Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

Volume 3

Appendix 11.1 - Offshore Ornithology Technical Report

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Prepared by:	
Royal HaskoningDHV	
Approved by:	Date:
Sarah Chandler, Equinor	August 2022

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Glossary of Acronyms

BACI	Before After Control Impact
BDMPS	Biologically Defined Minimum Population Size
CEH	Centre for Ecology and Hydrology
CRM	Collision Risk Modelling
DECC	Department for Energy and Climate Change
DEP	Dudgeon Extension Offshore Wind Farm Project
DEP-N	DEP North Array Area
DEP-S	DEP South Array Area
DOW	Dudgeon Offshore Wind Farm
ES	Environmental Statement
ETG	Expert Topic Group
OMP	Ornithological Monitoring Programme
OWF	Offshore Wind Farm
PCH	Potential Collision Height
PEIR	Preliminary Environmental Information Report
PVA	Population Viability Analysis
SEP	Sheringham Shoal Extension Offshore Wind Farm Project
SNCB	Statutory Nature Conservation Bodies
SOW	Sheringham Shoal Offshore Wind Farm
SPA	Special Protection Area
UD	Utilisation Distribution
UK	United Kingdom

Glossary of Terms

Dudgeon Offshore Wind Farm Extension Project (DEP)	The Dudgeon Offshore Wind Farm Extension onshore and offshore sites including all onshore and offshore infrastructure.
DEP North array area	The wind farm site area of the DEP offshore site located to the north of the existing Dudgeon Offshore Wind Farm
DEP South array area	The wind farm site area of the DEP offshore site located to the south of the existing Dudgeon Offshore Wind Farm
DEP offshore site	The Dudgeon Offshore Wind Farm Extension consisting of the DEP wind farm site, interlink cable corridors and offshore export cable corridor (up to mean high water springs).
DEP wind farm site	The offshore area of DEP within which wind turbines, infield cables and offshore substation platform/s will be located and the adjacent Offshore Temporary Works Area. This is also the collective term for the DEP North and South array areas.
European site	Sites designated for nature conservation under the Habitats Directive and Birds Directive. This includes candidate Special Areas of Conservation, Sites of Community Importance, Special Areas of Conservation, potential Special Protection Areas, Special Protection Areas, Ramsar sites, proposed Ramsar sites and sites compensating for damage to a European site and is defined in regulation 8 of the Conservation of Habitats and Species Regulations 2017, although some of the sites listed here are afforded equivalent policy protection under the National Planning Policy Framework (2021) (paragraph 176) and joint Defra/Welsh Government/Natural England/NRW Guidance (February 2021).
Interlink cable corridor	This is the area which will contain the interlink cables between offshore substation platform/s and the adjacent Offshore Temporary Works Area.

Offshore cable corridors	This is the area which will contain the offshore export cables or interlink cables, including the adjacent Offshore Temporary Works Area.
Offshore export cable corridor	This is the area which will contain the offshore export cables between offshore substation platform/s and landfall, including the adjacent Offshore Temporary Works Area.
Offshore export cables	The cables which would bring electricity from the offshore substation platform(s) to the landfall. 220 – 230kV.
Offshore Temporary Works Area	An Offshore Temporary Works Area within the DCO boundary in which vessels are permitted to carry out activities during construction, operation and decommissioning encompassing a 200m buffer around the wind farm sites and a 750m buffer around the offshore cable corridors. No permanent infrastructure would be installed within the Offshore Temporary Works Area.
Sheringham Shoal Offshore Wind Farm Extension Project (SEP)	The Sheringham Shoal Offshore Wind Farm Extension onshore and offshore sites including all onshore and offshore infrastructure.
SEP offshore site	Sheringham Shoal Offshore Wind Farm Extension consisting of the SEP wind farm site and offshore export cable corridor (up to mean high water springs).
SEP wind farm site	The offshore area of SEP within which wind turbines, infield cables and offshore substation platform/s will be located and the adjacent Offshore Temporary Works Area.
The Applicant	Equinor New Energy Limited

APPENDIX 11.1 OFFSHORE ORNITHOLOGY TECHNICAL REPORT

11.1.1 Introduction

1. This technical report supports **Chapter 11 Offshore Ornithology** of the Environmental Statement (ES), which considers the potential impacts of the proposed Sheringham Shoal Offshore Wind Farm Extension Project (SEP) and Dudgeon Offshore Wind Farm Extension Project (DEP).
2. The report presents further details of several aspects of the SEP and DEP assessment not included in the ES chapter:
   - Information regarding the collection of baseline information from the site-specific surveys;
   - How these data were treated to produce robust density and abundance estimates of offshore ornithology receptors within the offshore study area and other reporting regions, and presentation of these by survey (**Annex 1**). For species for which Collision Risk Modelling (CRM) has been carried out, densities of flying birds by month for SEP and DEP are also presented (**Annex 2**);
   - Outputs of calculations to estimate the magnitude of potential displacement effects during the construction (**Annex 3**) and operational phases (**Annex 4**) for EIA calculations, and **Annex 5** for HRA calculations (construction and operational phases);
   - CRM methodology, input and detailed output for species screened out of assessment (the latter being presented in **Annex 6**);
   - A review of the latest evidence on collision risk and displacement on key species
   - The approach to model-based density estimation for Sandwich tern (**Annex 7**);
   - Band Model spreadsheets used to calculate CRM (**Annex 8**); and
   - Population Viability Analysis (PVA) methodology and input parameters for North Norfolk Coast/Greater Wash SPA Sandwich tern, and Flamborough and Filey Coast SPA gannet, guillemot, kittiwake, and razorbill, as well as all outputs produced by the Natural England PVA tool (**Annex 9**).
3. Finally, the figures produced to accompany the assessment are presented in **Annex 10**.

11.1.2 Methods

11.1.2.1 Survey Flights

4. Monthly digital video surveys were flown from May 2018 to April 2020, with two surveys flown per month between April and August 2019, giving 29 surveys in total. The surveys were designed and undertaken by Hi Def Aerial Surveying Limited. The surveys were designed to meet regulatory expectations of the time.
5. Parallel transects were placed at 2.5km apart across the aerial survey study area, which consisted of a polygon containing the SEP and DEP wind farm sites (excluding temporary works area), with a 4km buffer around them. In October 2018, the survey area was revised to include an extension to SEP. This meant that five

surveys occurred with a slightly smaller aerial survey study area. The survey design is presented in **Figure 11.1**. The transect length was such that surveys could be completed in a single day year-round, which is considered to be desirable (where possible) for this type of survey to minimise double counting of birds.

6. Transects were aligned approximately in a north to south orientation. Depth, salinity and seabed substrate gradients off the coast of Norfolk run approximately north to south, meaning a range of each would be captured on each transect. This variability within each transect is desirable for design-based density estimation.

7. All surveys were flown at a height of approximately 550m above sea level, and were undertaken using an aircraft equipped with four Hi Def Gen II cameras with sensors set to a resolution (or ground sampling distance) of 2cm. Each camera sampled a strip of 125m width, separated from the next camera by approximately 25m, which provides a combined sampled width of 500m within a 575m overall strip.

8. The amount of data processed varied depending on the month in which the survey was carried out. Since the breeding season for seabirds was known to represent the time of year where usage of the aerial survey study area was greatest, additional effort was applied to surveys carried out between March and September. Data from four cameras was analysed (500m actual strip width), resulting in a survey coverage across the aerial survey study area of approximately 20%. For surveys carried out between October and February, data from two cameras was analysed. The actual transect strip width during surveys carried out in these months was 250m, resulting in a survey coverage of the aerial survey study area of approximately 10%.

9. The dates, start and end times, and the approximate sunrise and sunset times for each survey day are presented in **Table 11-1**, along with the total length of transects used in subsequent analysis. Whilst the same transect lines were used for each survey, exact survey effort differed slightly between surveys due to minor differences in start and stop times for transects and minor deviations of the aircraft from the transect line. Surveys were generally carried out between approximately 0900 and 1500 year round, meaning that certain times of day were not sampled, as is typical for surveys of this nature. Some bias in the survey methodology is unavoidable. There is little scope to vary the time of day at which surveys occur, due to factors such as aircraft logistics, transit to and from the study area, the timing of windows for suitable light and weather, commencement of surveys sufficiently early to complete in a single day, and leaving time for survey completion in the event of any issues during the survey. It should be noted that this is not an issue restricted to DEP and SEP, it is a potential issue at all OWFs.

Table 11-1: Survey dates, start and end times, number of cameras and total transect analysed from each survey. Sunrise and sunset times for the survey dates (for co-ordinate 53.067626 N, 0.94482421 E) are also included. All times are local, adjusted for Greenwich Mean Time or British Summer Time as appropriate.

Date	Survey start	Survey end	Sunrise	Sunset	Total transect length analysed (km)	Number of cameras analysed
22/05/2018	11:19	14:20	04:48	20:59	498.73	4
18/06/2018	11:20	14:13	04:29	21:26	498.30	4

Date	Survey start	Survey end	Sunrise	Sunset	Total transect length analysed (km)	Number of cameras analysed
02/07/2018	09:50	12:58	04:35	21:25	498.80	4
06/08/2018	10:58	14:03	05:22	20:42	497.81	4
12/09/2018	09:37	12:33	06:25	19:19	500.34	4
09/10/2018	11:48	14:59	07:11	18:15	507.16	2
14/11/2018	11:07	14:37	07:18	16:03	507.88	2
04/12/2018	11:57	14:56	07:51	15:41	506.72	2
19/01/2019	10:55	13:56	07:58	16:16	507.52	2
14/02/2019	10:21	13:38	07:17	17:05	508.08	2
05/03/2019	09:53	13:00	06:35	17:41	508.38	4
04/04/2019	11:27	14:44	06:24	19:36	507.22	4
26/04/2019	09:25	12:47	05:34	20:15	506.94	4
10/05/2019	09:06	12:44	05:07	20:40	507.69	4
24/05/2019	09:21	12:38	04:45	21:02	507.75	4
15/06/2019	11:04	14:12	04:29	21:24	507.60	4
20/06/2019	09:12	12:22	04:29	21:26	506.42	4
03/07/2019	09:13	12:18	04:36	21:25	508.97	4
17/07/2019	09:05	12:16	04:51	21:13	507.12	4
08/08/2019	09:56	13:26	05:25	20:38	507.36	4
22/08/2019	09:51	12:49	05:48	20:09	507.36	4
18/09/2019	08:47	11:56	06:35	19:05	471.27	4
03/10/2019	10:41	14:12	07:00	18:29	508.52	2
13/11/2019	09:41	12:55	07:16	16:04	508.00	2
03/12/2019	10:01	13:12	07:49	15:42	507.59	2
10/01/2020	11:34	14:47	08:07	16:01	507.78	2
08/02/2020	10:11	13:26	07:29	16:53	507.31	2
06/03/2020	10:25	13:56	06:31	17:45	505.38	4
03/04/2020	10:15	13:08	06:24	19:35	508.01	4

11.1.2.2 Data Review, Object Detection and Identification

10. Data were viewed by trained reviewers who marked any objects in the footage as requiring further analysis. A blind review of 20% of the raw data was carried out and the results compared with those of the original review for quality assurance purposes.

11. Objects were only recorded where they reached a reference line (known as ‘the red line’) which defines the true strip width of 125m covered by each camera. By excluding objects that do not cross the red line, biases to abundance estimates caused by flux (for example due to movement of objects in the video footage relative to the aircraft, or ‘wing wobble’ of the survey aircraft) are eliminated.

12. Images marked as requiring further analysis were then reviewed by specialist ornithologists for identification to the lowest taxonomic level possible. Any animals that could not be identified to species level were assigned to a category ‘No ID’.

13. Additional information was recorded for each bird on their basic behaviour; whether the bird was sitting, loafing on land or other objects or flying; in the latter case the direction of travel was also recorded. Where the imagery allowed, assessment of the approximate age and the sex of each animal, as well as any behavioural traits visible from the imagery, were also undertaken. However, for most birds, this was not possible. With regard to age classification, 92% of all birds were recorded as either “blank” or “unknown”, meaning that the vast majority of records could not be aged. With regard to sex, 99% of all birds were recorded as either “blank” or “unknown”, meaning that the vast majority of records could not be assigned a sex. Due to concerns around the small numbers of birds assigned an age, sex or behaviour, unknown reliability of the observations made, and the unknown potential for biases in this information, age, sex and behavioural observations are not used by the assessment.

14. At least 20% of all objects were subjected to an external review for quality assurance purposes. If there is disagreement over 10% or more of this sample then corrective action is initiated. If appropriate, the failed reviewer’s data is discarded and the data reviewed again. Any disputed identifications are passed to a third party expert ornithologist for a final decision.

15. Anthropogenic activity was categorised as either ‘man-made object’, ‘fishing boat’ or ‘other boat’ and any other details of interest recorded. All data were geo-referenced, taking into account the offset from the transect line of the cameras, and compiled into a single GIS output.

11.1.2.3 Data Treatment

16. Following the review and identification of all objects, data were processed for estimating abundance and distribution of offshore ornithology receptors. All confidence levels of species identifications were used in the analysis.

17. Birds that were unable to be identified to the species level were apportioned based on the proportional densities of species making up the wider species group by survey. For example, if there were 10 unidentified “large auks” (a species group consisting of razorbills and guillemots), and the total number of identified razorbill and guillemots was 20 and 80 respectively, then two large auks would be apportioned to razorbills and eight would be apportioned to guillemots for a total population of 22 and 88 respectively. Apportioning is done separately for flying birds, sitting birds, and the combination of both behaviour types (all birds).

18. Densities and abundances were reported for a number of reporting regions: DEP, DEP and a 2km buffer, DEP and a 4km buffer, SEP, SEP and a 2km buffer, SEP and a 4km buffer, and the aerial survey study area. The reporting regions and survey transects are presented in **Figure 11.1**. The approximate transect lengths are presented in **Table 11-2**. The approximate percentage coverage achieved by the study design in each reporting region is presented in **Table 11-3** for surveys carried out between March and September, and

19. **Table** 11-4 for surveys carried out between October and February. Whilst the same transect lines were used for each survey, exact survey effort differed slightly between surveys due to minor differences in start and stop times for transects and minor deviations of the aircraft from the transect line.

Table 11-2: Approximate length of baseline survey transects within aerial survey study area and reporting regions

Transect	Reporting regions and length of transect (km)						
	Study area[1]	DEP	DEP + 2km	DEP + 4km	SEP	SEP + 2km	SEP + 4km
1	5.70						
2	13.20						
3	19.81						5.57
4	24.01					5.21	11.24
5	27.45				4.25	10.23	15.26
6	31.41				8.04	12.67	16.82
7	34.98			6.61	6.33	11.49	17.22
8	35.96	0.31	6.26	11.27	4.51	12.56	19.64
9	37.35	3.78	7.88	11.86	7.84	13.08	17.97
10	37.41	2.15	6.54	11.41	6.27	11.38	14.68
11	36.52	2.58	10.04	15.54		6.99	11.12
12	35.83	6.77	12.61	16.63			6.40
13	35.32	5.86	10.39	16.19			
14	34.73	5.90	17.13	29.79			
15	33.13	7.98	19.03	30.18			
16	27.27	7.13	12.17	23.44			
17	18.59	2.69	8.11	13.52			
18	13.08		3.62	8.96			
19	5.23			3.64			
Total length	506.97	45.16	113.76	199.04	37.23	83.61	135.91

Notes
1. Study area is aerial survey study area used in surveys from October 2018 to April 2020

Table 11-3: Approximate area of baseline survey transects within aerial survey study area and reporting regions for surveys carried out between March and September

Transect	Reporting regions and length of transect (km^2)						
	Study area[1]	DEP	DEP + 2km	DEP + 4km	SEP	SEP + 2km	SEP + 4km
1	2.86						
2	6.60						
3	9.90						2.78
4	12.00					2.60	5.62
5	13.72				2.12	5.12	7.62
6	15.70				4.02	6.34	8.42
7	17.48			3.30	3.16	5.74	8.60
8	17.98	0.16	3.12	5.64	2.26	6.28	9.82
9	18.68	1.90	3.94	5.92	3.92	6.54	8.98
10	18.70	1.08	3.26	5.70	3.14	5.70	7.34
11	18.26	1.30	5.02	7.78		3.50	5.56
12	17.92	3.38	6.30	8.32			3.20

Transect	Reporting regions and length of transect (km²)						
	Study area[1]	DEP	DEP + 2km	DEP + 4km	SEP	SEP + 2km	SEP + 4km
13	17.66	2.94	5.20	8.10			
14	17.36	2.94	8.56	14.90			
15	16.56	3.98	9.52	15.08			
16	13.64	3.56	6.08	11.72			
17	9.30	1.34	4.06	6.76			
18	6.54		1.82	4.48			
19	2.62			1.82			
Total area	253.48	22.58	56.88	99.52	18.62	41.82	67.94
Total region area	1235.36	103.53	286.89	504.30	92.53	207.54	347.06
Approx. % coverage	20.5%	21.8%	19.8%	19.7%	20.1%	20.2%	19.6%

Notes
1. Study area is the aerial survey study area used in surveys from October 2018 to April 2020; however, area measurements within each reporting region will be identical for surveys carried out between May 2018 and September 2018, where a slightly different study area was used

Table 11-4: Approximate area of baseline survey transects within aerial survey study area and reporting regions for surveys carried out between October and February

Transect	Reporting regions and length of transect (km²)						
	Study area[1]	DEP	DEP + 2km	DEP + 4km	SEP	SEP + 2km	SEP + 4km
1	1.43						
2	3.3						
3	4.95						1.39
4	6					1.3	2.81
5	6.86				1.06	2.56	3.81
6	7.85				2.01	3.17	4.21
7	8.74			1.65	1.58	2.87	4.3
8	8.99	0.08	1.56	2.82	1.13	3.14	4.91
9	9.34	0.95	1.97	2.96	1.96	3.27	4.49
10	9.35	0.54	1.63	2.85	1.57	2.85	3.67
11	9.13	0.65	2.51	3.89		1.75	2.78
12	8.96	1.69	3.15	4.16		0	1.6
13	8.83	1.47	2.6	4.05			
14	8.68	1.47	4.28	7.45			
15	8.28	1.99	4.76	7.54			
16	6.82	1.78	3.04	5.86			
17	4.65	0.67	2.03	3.38			
18	3.27		0.91	2.24			
19	1.31			0.91			
Total area	126.74	11.29	28.44	49.76	9.31	20.9	33.98

Transect	Reporting regions and length of transect (km^2)						
	Study area[1]	DEP	DEP + 2km	DEP + 4km	SEP	SEP + 2km	SEP + 4km
Total region area	1235.36	103.53	286.89	504.3	92.53	207.54	347.06
Approx. % coverage	10.9%	10.9%	9.9%	9.9%	10.1%	10.1%	9.8%

Notes
1. Study area is the aerial survey study area used in surveys from October 2018 to April 2020; however, area measurements within each reporting region will be identical for surveys carried out between May 2018 and September 2018, where a slightly different study area was used

11.1.2.4 Abundance Estimates

11.1.2.4.1 Design-based Methods

20. Abundance estimates were produced separately for each survey. Data were analysed according to a strip transect analysis methodology, which is commonly used for producing abundance estimates of this nature. Each transect was treated as an independent analysis unit, and the assumption made that transects can be treated as statistically independent samples. The length of each transect and its breadth within the reporting region of interest (i.e. the width of the field of view of the camera) multiplied together give the transect area; dividing the number of observations on that transect by the transect area gives a point estimate of the density of that species in that reporting region. The mean density of animals (and hence the mean abundance) in the reporting region, the standard deviation, 95% confidence intervals and coefficient of variation were then estimated using a non-parametric bootstrap method with replacement (Buckland *et al*., 2001).

21. The upper and lower 95% confidence intervals were calculated by way of a blocked bootstrapping technique in order to ensure equal transect effort was sampled across each iteration. This was done by using the transect as the sampling unit with replacement, and then randomly sampling until the total length of the sampled transects equalled approximately the same length as the total survey length. A total of 5,000 bootstrap iterations were performed from which the mean and standard deviation of the sampled means were calculated, as well as the relative standard error as defined by the standard deviation divided by the mean. Data were processed in the R programming language (version 3.4.3).

22. To incorporate birds apportioned to species groups, apportioned birds were added to the population estimate and a new density calculated by dividing the estimate by the survey area. To recalculate the standard deviation, the proportional variance was calculated and added to the variance of the identified birds.

23. For most species, abundance estimates relate to absolute abundance. External diving rate data were available for guillemot, razorbill and puffin, enabling availability bias corrections to be carried out for these species.

24. Thaxter *et al*. (2010) give average times for these species engaged in flying, feeding and time spent underwater during the chick-rearing period. The mean time spent underwater per day (1.9 and 0.8 hours for guillemots and razorbills respectively) has been used as a percentage of the mean time spent at sea not flying (8.0 and 4.6

hours respectively). Thus, the percentage time spent underwater for guillemots is 23.8% and for razorbills of 17.4%. For puffins, data from data loggers were used from Spencer (2012), which estimated that puffins spend 14.2% of daylight time underwater.

25. These correction values were applied to estimates of relative abundance of birds sitting on the sea, which were added to the true abundance of flying birds to give an estimate of true abundance for the species overall.

26. The final density estimate for a given survey is expressed as the average number of animals per square km surveyed over the reporting region in question, and the population estimate is then calculated as the density multiplied up to the area of the reporting region. The upper 97.5% and lower 2.5% confidence limits define the range within which the population estimate falls with a statistical confidence of 95%.

27. Due to the relatively short lengths of survey transect within the DEP North array area (DEP-N) and DEP South array area (DEP-S), the small numbers of birds recorded (in the case of many species), and the large number of zero records within the dataset, it was not considered possible to generate reliable design-based density estimates for these regions. It is recognised that a method is required to assess potential differences in seabird abundance within each region. To enable this, an encounter rate (i.e. birds seen per km of transect) for DEP-N, DEP-S and DEP has been calculated for all species screened into impacts considered in **Chapter 11 Offshore Ornithology**. These are presented in the species accounts in **Section 11.1.3.3**. These differences, and their potential effects on the assessment, are then considered in the impact assessments presented in **Chapter 11 Offshore Ornithology**. It should be noted that these comparisons are not statistically robust, due largely to low sample size. This is the reason that these comparisons are used in this way, rather than as more widely applicably correction factors. Due to the fact that different levels of survey effort (i.e. number of cameras) were applied at different times of year, only spatial comparisons (i.e. DEP versus DEP-N and/or DEP-S) are considered to be valid. Comparisons of encounter rates in the same reporting regions between biologically relevant seasons are not valid due to the differing levels of survey effort.

11.1.2.4.2 Model-based Methods

28. For Sandwich tern only, density surface models (DSMs) for each survey where sufficient records were made were produced for the aerial survey study area, using the software package MRSea (Mackenzie *et al*., 2013; Oedekoven *et al*., 2013; Scott-Hayward *et al*., 2013). Full details of the work undertaken to produce these DSMs is presented in **Annex 7**, with a summary presented in the following paragraphs.

29. Three model scenarios were generated. The first was a model using bathymetry, bathymetric slope, mean and gradient of sea surface temperature, distance to wind farm, and a spatial covariate model. Secondly, a model was produced using all covariates except distance to wind farm, and finally, a model using only the spatial covariate was produced. The purpose of the different models was to examine the impacts of incorporating different variable combinations into MRSea to determine if there were consequences on estimation of abundance or spatial patterns.

30. Metrics of model quality were very similar in all three cases with the first model (all variables) having a slightly higher R-squared value, which was selected as the most robust model. The outputs from the first model were then used to perform CRM for Sandwich tern alongside the design-based density estimates. The similar R-squared values across the three models indicate that the inclusion of environmental covariates as model inputs does not substantially improve the predictive power of the model.

31. Figures presenting the model-based density estimation outputs have been produced for each survey showing the mean, lower and upper 95% CIs, and coefficient of variation across the aerial survey study area (**Figure 11.34** to **Figure 11.47**). Two sets of figures, a and b, are included. Set 'a' retain the same scales throughout, enabling comparison between surveys. Set 'b' figures have had the scale optimised by survey, so should not be used to compare across different surveys.

32. A hot/cold spot analysis was performed to attempt to identify potential interactions between Sandwich tern and the proposed OWFs (see **Annex 7** for further details). In summary, no persistent hotspots where high densities of Sandwich terns were consistently present were identified by the analysis. However, several variable hotspot areas of high, moderate and low density were identified by the analysis. One of the high and variable hotspot areas occurred within the boundary of the northern section of DEP. This suggests that in this area of sea, Sandwich terns occurred in relatively high density, but not across all baseline surveys.

11.1.2.4.3 Comparison of Design-based and Model-based Density Estimates for Sandwich Tern

33. A comparison of mean density and 95% CIs calculated using design-based and model-based density estimates is presented in **Plate 1** for DEP, and **Plate 3** for SEP. A comparison of the coefficient of variation for each of the densities is presented in **Plate 2** for DEP, and **Plate 4** for SEP.

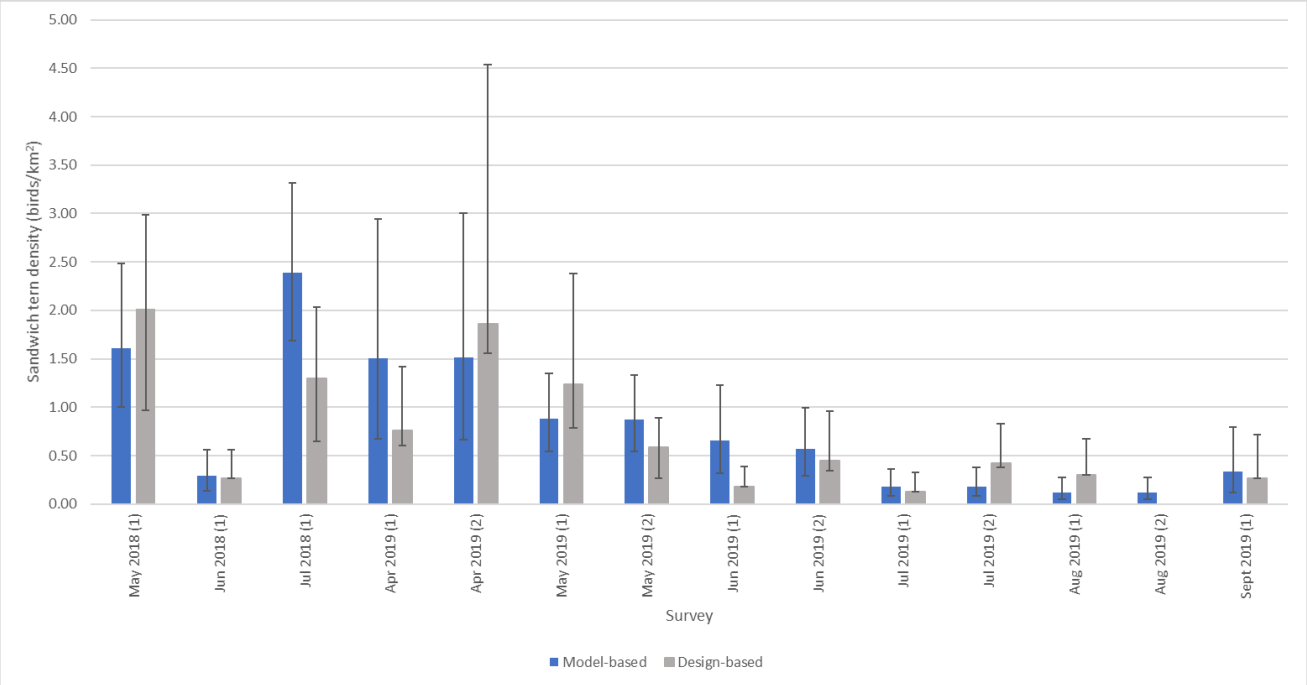

Plate 1: Comparison of mean and 95% CI density estimates for Sandwich tern (all birds) at DEP calculated using design-based and model-based methods

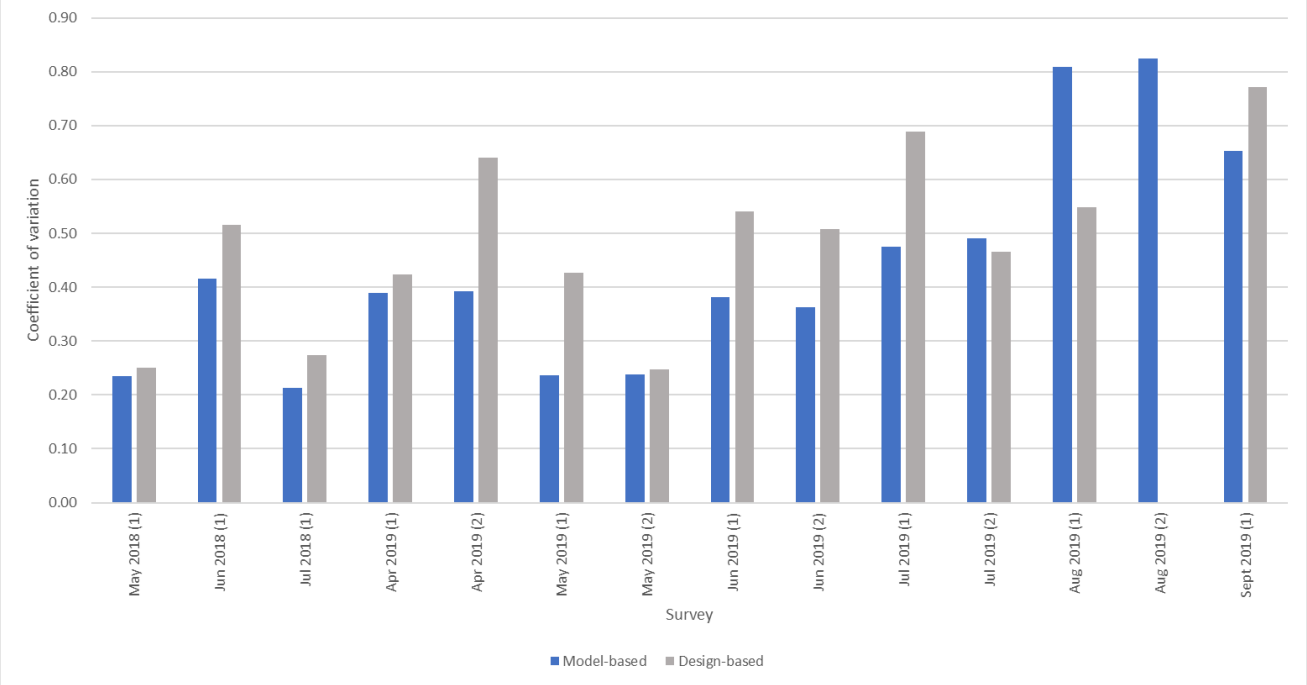

Plate 2: Comparison of coefficients of variation for Sandwich tern (all birds) at DEP calculated using design-based and model-based methods

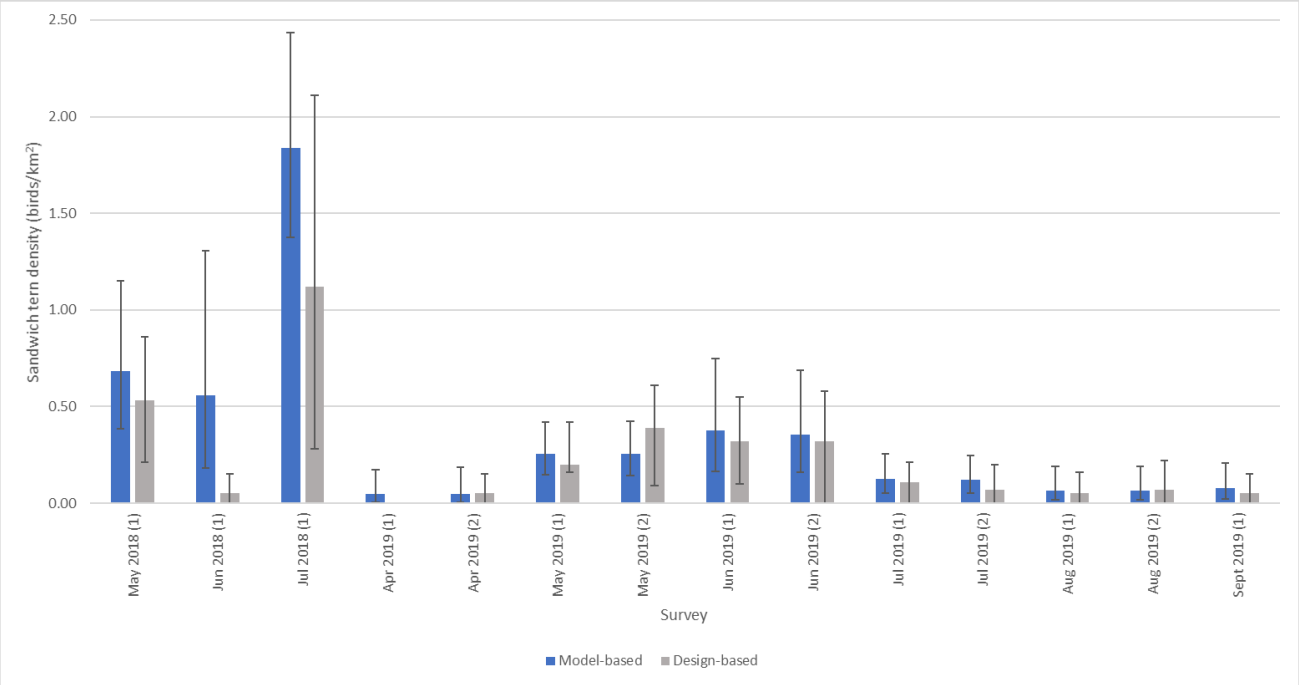

Plate 3: Comparison of mean and 95% CI density estimates for Sandwich tern (all birds) at SEP calculated using design-based and model-based methods

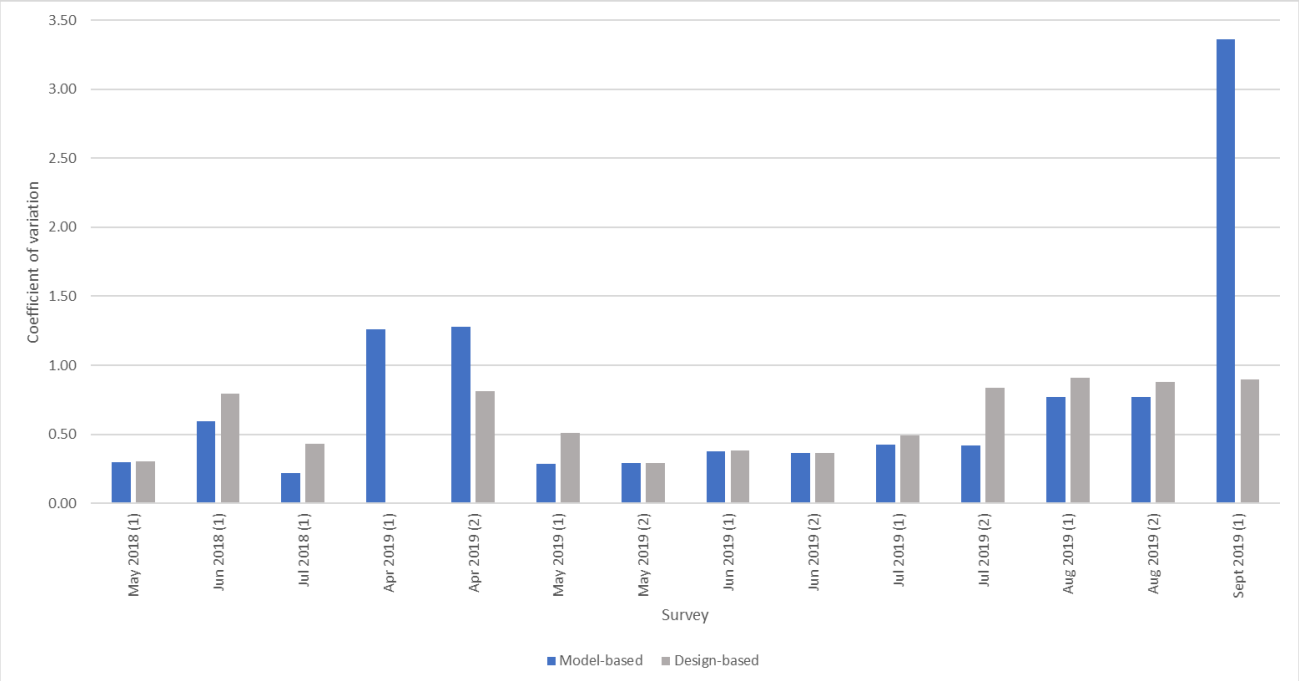

Plate 4: Comparison of coefficients of variation for Sandwich tern (all birds) at SEP calculated using design-based and model-based methods

34. The key points from the plates presented above are considered to be as follows:

- The mean Sandwich tern density estimates at DEP and SEP generated by the two different density estimation methodologies are very similar. Differences in mean density between the two methods on any given survey was small, with the exception of July 2018. This was the survey in which more Sandwich terns were recorded than any other. There was no obvious pattern of one method consistently providing higher, or lower, mean density estimates than the other.
- 95% CIs were generally slightly tighter around the mean density estimate when the model-based method was used. Much of this increased tightness was due to the 95% lower CI almost always being larger using the model-based density estimation method, though the upper 95% CIs were also often (but not always) closer to the mean density estimate when the model-based approach was used. However, as explained in **Annex 7**, tighter 95% CIs are not themselves a measure of the quality of a model. If they were, then the model-based densities produced without environmental covariates would be the "best" model produced.
- Like the mean densities, the coefficients of variation of the Sandwich tern density estimates at DEP and SEP were very similar between the two different methods. This suggests that the level of precision was comparable between the two methods, and that one is not demonstrably "better" than the other.

11.1.2.5 Collision Risk Modelling

35. CRM was carried out using the industry standard model of Band (2012). This section should be read in conjunction with **Section 11.6.2.2** of **Chapter 11 Offshore Ornithology**, which contains a range of details on the modelling, including species screened into and out of the assessment and input parameters.

11.1.2.5.1 Seabird Densities

36. CRM requires that the mean bird density estimates (flying birds in the case of design-based density estimates, and all birds in the case of model-based density estimates) and 95% confidence intervals for SEP and DEP calculated by survey, as described in **Section 11.1.2.3**, are processed into monthly estimates. The mean density for a given month was calculated as the mean of the mean densities for all surveys carried out in that month. These calculations included "zero" data points from surveys during which no records of the species in question were made. However, they did not include "zero" data points from surveys omitted from model-based density estimation (Sandwich tern only) due at least in part to paucity of records, as this would lead to potential underestimation of densities if it were assumed the species was absent, when it was not. To calculate 95% confidence intervals that reflect the variability about the mean densities from all surveys in each month, the 1,000 bootstraps from each survey within a month were combined into a single dataset (e.g. 2,000 bootstraps for months within which two surveys occurred during the two years of baseline surveys), and 95% confidence intervals calculated from the entire dataset.

11.1.2.5.2 Flight Height

37. Flight height can be incorporated into CRM in four different ways:

- Option 1: basic model (i.e. % birds at Potential Collision Height (PCH)), typically using site-specific or area-specific data;
- Option 2: basic model (i.e. % birds at PCH) using generic flight height distribution data ("Corrigendum," 2014; Johnston *et al*., 2014);
- Option 3: extended model (i.e. modelled flight height distributions across rotor height) using generic flight height distribution data ("Corrigendum," 2014; Johnston *et al*., 2014); and
- Option 4: as option 3 but using site-specific or area-specific data.

38. For all species except Sandwich tern, collision risk has been calculated using Option 2 of the CRM and published flight height distributions ("Corrigendum," 2014; Johnston *et al*., 2014), as advised by Natural England during the ornithology Expert Topic Group (ETG) consultation process (see **Table 11-1** of **Chapter 11 Offshore Ornithology**). CRM runs using the mean, lower and upper 95% confidence interval flight height distribution values from the same dataset, have been undertaken.

39. The remainder of this section presents a review of the appropriateness of the flight height distribution data presented by Johnston *et al*. (2014) and "Corrigendum" (2014) for estimating the collision risk to breeding Sandwich tern from the North Norfolk Coast Special Protection Area (SPA).

40. Boat-based baseline surveys were undertaken during the development of several Offshore Wind Farm (OWF) sites in the Greater Wash; Dudgeon Offshore Wind Farm (DOW), Sheringham Shoal Offshore Wind Farm (SOW), Race Bank, Docking Shoal and Triton Knoll. The surveyors that undertook these surveys estimated whether flying birds were either above or below 20m from the sea surface (with above 20m taken to be an approximate surrogate for the Potential Collision Height (PCH)). The percentage of Sandwich terns recorded above 20m at each OWF is presented in **Table 11-5**. The mean and asymmetric 95% confidence intervals for Sandwich tern flight height data from Johnston *et al*. (2014) and "Corrigendum" (2014), a dataset used to inform a number of UK OWF assessments, which also consists largely of boat-based survey observations, is presented at three PCH; 20m, 30m and 35m. It should be noted that the data from the individual OWF studies referred to above are included in this dataset.

41. Flight height data presented in Perrow *et al*. (2017), Harwood *et al*. (2018) and Harwood (2021) are also included in **Table 11-5**. These latter two references contain data that are not incorporated in the analysis of Johnston *et al*. (2014) and "Corrigendum" (2014). These studies collected data using a fast boat tracking method for Sandwich terns, whilst Harwood *et al*. (2018) and Harwood (2021) also collected flight height data using standard boat-based survey methods. Both the 2018 and 2021 work are based on the same raw dataset. The difference between them is that the more recent 2021 work splits the dataset spatially. Flight height distributions using data collected within SOW plus a 1km buffer are presented separately from flight height distributions containing data from the rest of the study area. This was done because flight height data for use in CRM must be collected from areas outside OWFs.

Table 11-5: Comparison of different datasets that estimate the percentage of Sandwich terns flying above particular heights above the sea surface

OWF and source of information	CRH (m)	% Sandwich tern at PCH
DOW: boat-based baseline surveys	20	15%
Docking Shoal: boat-based baseline surveys	20	28%
Race Bank: boat-based baseline surveys	20	27%
SOW: boat-based baseline surveys	20	13%
Triton Knoll: boat-based baseline surveys	20	12.2%
Harwood *et al*. (2018): boat-based surveys (operational phase of SOW)	20	26%
Harwood *et al*. (2018): fast boat tracking surveys (operational phase of SOW)	20	34.8%
	25	19.6%
Harwood (2021): boat-based surveys, 1km-4km buffer zone (operational phase of SOW, outside OWF)	20	30.4%
	30	5.0%
	35	1.7%
Harwood (2021): boat-based surveys, OWF-1km buffer zone (operational phase of SOW, inside OWF)	20	36.8%
	30	8.0%
	35	3.5%
Harwood (2021): fast boat tracking surveys, 1km-4km buffer zone (operational phase of SOW, outside OWF)	20	37.9%
	30	12.7%
	35	7.3%
Harwood (2021): fast boat tracking surveys, OWF-1km buffer zone (operational phase of SOW, inside OWF)	20	40.5%
	30	17.1%
	35	11.1%
Perrow *et al*. (2017): fast boat tracking surveys	20	66%
	30	30%
	35	17%
Johnston *et al*. (2014) and “Corrigendum” (2014)	20	7.0% (7.1% - 13.2%)
	30	1.8% (1.7% - 5.1%)
	35	0.9% (0.9% - 3.2%)

42. The information presented in **Table 11-5** illustrates that there is considerable variation amongst the percentage of birds at PCH depending on the source of the data.

43. The datasets relating to specific OWF projects (i.e. all those listed in **Table 11-5** except the Johnston *et al*. (2014) and “Corrigendum” (2014) datasets) are presumed to consist mainly of breeding adult Sandwich terns from the North Norfolk Coast SPA. The OWFs in question are all within the mean maximum foraging range plus one standard deviation of this SPA (Woodward *et al*., 2019), and have been shown during tracking of birds from Scolt Head to be regularly used by breeding birds from this colony (Green *et al*., 2019) (**Figures 11.2** to **11.11**). The baseline data collected at DOW, SOW and Triton Knoll OWF data suggest that between 12% to 15% of Sandwich terns fly more than 20m above sea level. However, at Docking Shoal and Race Bank OWFs, and in the boat-based surveys of Harwood (2021) carried out

outside SOW, this figure was nearer 30%. The reasons for these differences are not clear.

44. At SOW, there are considerable differences in recorded Sandwich tern flight height between the baseline surveys (13% above 20m) and post-construction surveys, both inside and outside the OWFs (30.4% above 20m outside the OWF and 1km buffer, and 36.8% above 20m inside the OWF and 1km buffer). There is no obvious explanation for the differences between the baseline and post-construction observations, or for the difference in observed flight heights inside versus outside the OWF.

45. Data presented by Harwood *et al*. (2018) and Harwood (2021) indicate that the fast boat tracking surveys generate higher flight height estimates than traditional boat-based surveys. Harwood *et al*. (2018) includes a verification study carried out within the report, and the report concludes that boat-based surveys historically have underestimated flight heights of Sandwich terns. Whilst the results of the verification study indicate this might be the case, no further supporting evidence was presented. This conclusion is therefore unverified. Data presented by Perrow (2017), which were collected during fast boat tern tracking surveys similar to those of Harwood *et al*. (2018) and Harwood (2021), give much higher flight height estimates than any other Sandwich tern dataset, including the other fast boat tracking studies. The reasons for this are unclear, though this study focused on tracking birds from near breeding colonies for the entire duration of a foraging trip. These data will include flights from closer to the colony (as birds depart on and arrive from foraging trips) and will not necessarily be representative of the flight behaviour and activity that occurs within a particular offshore area (such as an OWF, or a location in which an OWF could be developed). Flight height may also be affected by whether birds are actively foraging or commuting to foraging areas and, therefore, may be expected to show considerable between-site variation according to the behaviours typical at a particular site. During the ETG process, Natural England stated their concerns around the flight height distributions collected using fast boat tracking studies (autocorrelation). This potential issue had not been examined at the time of writing; therefore data collected by this method has not been used for CRM.

46. In the case of Johnston *et al*. (2014) and "Corrigendum" (2014), Perrow *et al*. (2017), Harwood *et al*. (2018), and Harwood (2021), the proportion of Sandwich terns at flight height bands >20m diminishes rapidly with increasing height.

47. The dataset presented by Johnston *et al*. (2014) and "Corrigendum" (2014), is the largest in the comparison (nearly 34,000 Sandwich tern records across multiple OWFs collected predominantly using standard boat-based surveys, not including data collected from fast boat surveys), suggests lower flight heights for Sandwich tern than those presented for other data sources. It suggests that approximately half the number of birds fly at heights greater than 20m above sea level compared with the DOW and SOW baseline surveys. The upper 95% confidence limit of the Johnston *et al*. (2014) and "Corrigendum" (2014) dataset overlaps with the percentage of birds recorded at PCH predicted by the SOW and Triton Knoll baseline surveys, and is close to the % recorded at DOW. The difference between this dataset and the Docking Shoal and Race Bank OWF datasets, and the Harwood (2021) boat-based surveys carried out outside SOW and its 1km buffer are larger.

There is no overlap between the upper 95% confidence interval of Johnston *et al*. (2014) and "Corrigendum" (2014) and these datasets.

48. A recognised benefit of the Johnston *et al*. (2014) and "Corrigendum" (2014) flight height estimates is that they derive from a large, multi-source, dataset, and so are less likely to be affected by systematic biases which could, potentially, affect datasets from individual projects. However, a possible explanation for the lower flight height estimates in the Johnston *et al*. (2014) and "Corrigendum" (2014) dataset relative to the data from the other studies presented in **Table 11-5** is that these data are expected to contain large numbers of birds on passage, or dispersing from colonies outside the breeding season, and that Sandwich terns may tend to fly at lower heights during these times than they do during the breeding season (Perrow *et al*., 2017).

49. It is concluded (with agreement from the Ornithology ETG - see **Table 11-1** of **Chapter 11 Offshore Ornithology**) that the most appropriate flight height distribution for Sandwich tern CRM is the boat-based survey-derived flight height distributions from Harwood (2021) collected outside the OWF plus 1km buffer. However, only the mean distribution is considered appropriate for use as a CRM input, not the 95% confidence intervals. This is due to the fact that the initial analysis only provided a characterisation of the uncertainty in the parameters of the fitted distribution, rather than the required pointwise confidence intervals.

11.1.2.5.3 Avoidance Rates

50. The avoidance rates and associated variation suggested for use by the SNCBs with Options 1 and 2 of CRM (UK SNCBs, 2014) were recommended following the publication of Cook *et al*. (2014) and are used within the collision risk assessment for SEP and DEP for the relevant species (i.e. those identified by the UK SNCBs). For all species except Sandwich tern (see below), CRMs are undertaken using Option 2 of the CRM (i.e. basic version, with Johnston *et al*. (2014) and "Corrigendum" (2014) flight height data) with the recommended avoidance rates applied. This section summarises the latest evidence concerning avoidance rates for key seabird species considered by the assessment.

51. Some recent studies indicate that gannet avoidance of OWFs may be higher than the currently recommended rate of 0.989. At the Greater Gabbard OWF, 336 gannets were observed during the autumn migration period, of which only eight were recorded within the OWF (Rehfisch *et al*., 2014), indicating a high degree of OWF (macro) avoidance. Analysis of this data indicated a macro-avoidance rate in excess of 0.95 compared with a value of 0.64 on which the currently advised overall avoidance rate is based (Cook *et al*., 2014). This would result in higher overall avoidance than the currently recommended rate of 0.989 and would reduce collision mortality predictions. Analysis of boat-based survey data at Greater Gabbard OWF also suggested potential declines in gannets within the OWF following the commencement of OWF operation compared with the pre-construction baseline (86% declines in comparison between OWF and 0-4km buffer), though not in all tests carried out (Elston *et al*., 2016; Gill *et al*., 2018).

52. At the Lincs OWF, significant reductions of gannet in and around the OWF were reported in the second and third year of OWF operation, and in years one to three of operation combined, relative to the pre-construction phase (Hi Def Aerial

Surveying, 2017). These were the only significant decreases seen across the survey area, and it was concluded that this effect might be a result of OWF avoidance. At SOW, significant avoidance was also reported, in both Before After Control Impact (BACI) and Before After Gradient (BAG) analyses (Harwood *et al*., 2018), with graphs presented indicating an approximate decrease in density of 50%. These are lower than the level of macro-avoidance incorporated into the avoidance rate of 0.989 currently recommended for this species (0.64) (Cook *et al*., 2014).

53. The original Offshore Renewables Joint Industry Programme (ORJIP) bird collision avoidance study (Skov *et al*., 2018) provided further evidence relating to the precautionary nature of current avoidance rates and other parameters (e.g. flight speed) used in OWF assessment. Based on a combination of video, radar and field observations at Thanet OWF, the empirical avoidance rate for gannet was calculated as 0.999. By considering how these data relate to the avoidance rate that is appropriate for use with the CRM, Bowgen and Cook (2018) derived an estimate of 0.995 for the avoidance rate to use for gannet with the basic version of the CRM, which is substantially higher than the currently recommended rate by Natural England of 0.989.

54. Avoidance rates were also estimated in the ORJIP bird-collision avoidance study for herring gull (0.999), kittiwake and lesser black-backed gull (both 0.998), and great black-backed gull (0.996). Relating these data to the avoidance rates that are appropriate for use with the basic version of the CRM, Bowgen and Cook (2018) produced estimates of avoidance rates of 0.995 for large gulls, and 0.990 for kittiwake, which for kittiwake is also higher than the value currently recommended by the UK SNCB (2014) guidance. However, it is acknowledged that these rates might apply only to the particular geographical areas and biological seasons to which the source data relate, and that further work is required to understand the extent to which these avoidance rates can be extrapolated to other geographical areas and seasonal periods.

55. With respect to Sandwich tern avoidance rates, the CRM underpinning the Department for Energy and Climate Change (DECC) 2012 in-combination collision risk assessment of OWFs in the Greater Wash area (DECC, 2012; ECON, 2011a, 2011b) used an avoidance rate of 0.9883, which originated from a study undertaken at a Sandwich tern colony near the port of Zeebrugge, Belgium (Everaert and Stienen, 2007). This was judged the most robust avoidance rate available at the time of that assessment because it was based on empirical data of Sandwich tern mortality at an operational wind farm (albeit the turbines were not offshore), was the mean value derived from data collected over two years, and originated from a peer reviewed study considered to be one of the best empirical datasets available for Sandwich terns at the time. Operational phase data collection relating to Sandwich tern has occurred at SOW, where the behavioural avoidance rate has been calculated as 0.993 (Harwood *et al*., 2018). Natural England currently recommend the default avoidance rate of 0.980 for Sandwich tern, (UK SNCBs, 2014), on the basis that there is considered to be insufficient evidence to enable it to be changed.

56. Given the above, the assessment presents model outputs that utilise a range of avoidance rates for Sandwich tern (i.e. 0.980, 0.9883 and 0.993).

11.1.2.5.4 Nocturnal Activity

57. This section considers recent evidence supporting the use of alternative nocturnal activity rates to the default values recommended for use with the offshore CRM (Band 2012) for three species; gannet, kittiwake and Sandwich tern.

58. A number of studies have recently deployed various data loggers on a range of seabird species. Data from those studies can provide empirical evidence of the actual nocturnal flight activity level.

59. In order to more accurately estimate nocturnal activity for gannet, a review of evidence from tracking studies has been undertaken (Furness *et al*., 2018). The average nocturnal activity rates were estimated as 7.1% and 2.3% for the breeding and non-breeding seasons respectively, leading to author-recommended precautionary nocturnal flight activity rates for use in the CRM of 8% and 4% for the breeding and non-breeding seasons respectively. The breeding season value was very heavily influenced by the results from the smallest study in the review, which was based on three tagged birds in Shetland (Garthe *et al*., 1999). That study yielded a nocturnal activity rate of 20.9% (compared to daytime) but the total duration of flight activity recorded was 215 hours, which was less than 3% of the >8,000 hours covered by the remaining studies. If the average rate was to be calculated without this study, a breeding season rate of 4.3% would be obtained. Thus, the recommended rates of 8% and 4% are considered to be precautionary.

60. For gannet, as recommended by SNCBs, a nocturnal activity value of 25% has been used in the assessment, although CRM outputs are also presented using the evidence-based value of 8%.

61. For kittiwakes and other gulls, nocturnal activity values of 50% have been used in the CRMs in this assessment, following the default values given in Band (2012). For kittiwake, a review and analysis of activity data from tracking studies has identified nocturnal activity rates for the breeding and non-breeding seasons, respectively, of 20% and 17% based on empirical evidence. Therefore, the 50% value used here is considered highly precautionary. CRM outputs for kittiwake are also presented using the evidence-based value of 20% based on the recent review of evidence.

62. For Sandwich tern, a value of 0% was used in CRM as an input into DECC (2012). This was taken from a single study in the Netherlands (Stienen *et al*., 2000), and is also the published value in Garthe and Hüppop (2004), which is therefore recommended as an input by Band (2012). To derive an evidence-based value for use in the current assessment, data were used from the DOW Ornithological Monitoring Programme (OMP) Sandwich tern tracking study, which has tracked birds breeding at the Scolt Head colony between 2016 and 2019 (Collier *et al*., 2018, 2017, 2016; Green *et al*., 2019; Scragg *et al*., 2016; Thaxter *et al*., 2018). **Table 11-6** summarises the amount of data collected in each year of study.

Table 11-6: Number of Sandwich terns tagged and average number of days for which data were recorded by bird, along with total GPS fixes collected from birds tagged at Scolt Head during four years of the DOW OMP study, presented by year.

Year	Number of tagged birds for which data were retrieved	Estimated mean number of days of data per tagged bird	Total number of trips recorded	Total number of fixes recorded
2016	7	6	152	1,540

Year	Number of tagged birds for which data were retrieved	Estimated mean number of days of data per tagged bird	Total number of trips recorded	Total number of fixes recorded
2017	4	2	10	331
2018	19	20	544	11,553
2019	9	9	200	4,716

63. Two definitions of day and night are presented. The first are sunrise and sunset times; this is the definition used by the Band (2012) CRM, and therefore the most appropriate definition to set nocturnal activity factors used for CRM. The second is estimated dawn and dusk times (based on dawn occurring one hour before sunrise, and dusk occurring one hour after sunset). This definition has not been used to set the nocturnal activity factor but is presented as it is probably more biologically relevant than sunrise and sunset.

64. A comparison of start and end times of all recorded foraging trips indicated that approximately 8.2% of flights began and 9.9% ended either before sunrise or after sunset. Comparing the numbers of fixes recorded in operational OWFs in the Greater Wash area with fixes recorded in the same OWFs during the day indicated that nocturnal activity is low; an average of 1.1% across the seven OWFs considered (**Table 11-7**). Values for SEP and DEP were higher; 9.0% at SEP and 3.5% at DEP (**Table 11-7**). For the purposes of collision risk assessment at OWFs, it was considered that a nocturnal activity factor of 2% would be appropriate. This is approximately double the activity measured at any OWF in the wider area, so is considered to be a precautionary value for operational OWFs. Whilst values at SEP and DEP were higher than this, the fact that these are not areas where operational turbines were present was considered to represent part of the reason for these higher nocturnal activity rates.

65. It should be noted that lower nocturnal activity factors are generated when estimated dawn and dusk times are used instead of sunrise and sunset to define day and night. This indicates that much of the “nocturnal” activity is actually focused around dawn and dusk. However, given that CRM uses sunrise and sunset to define day and night, it is appropriate to do the same when calculating nocturnal activity factors.

Table 11-7: Frequency of Sandwich tern GPS fixes collected from birds tagged at Scolt Head during four years of the DOW OMP study

OWF	Fixes between sunrise and sunset	Fixes between sunset and sunrise	Sunset and sunrise nocturnal activity factor	Fixes between dawn and dusk	Fixes between dusk and dawn	Dawn and dusk nocturnal activity factor
SOW	21	1	4.76%	21	1	4.76%
DOW	90	1	1.11%	91	0	0.00%
Race Bank	122	0	0.00%	122	0	0.00%
Triton Knoll	40	0	0.00%	40	0	0.00%
Lynn	1	0	0.00%	1	0	0.00%
Inner Dowsing	0	0	0.00%	0	0	0.00%
Lincs	6	1	16.67%	7	0	0.00%

OWF	Fixes between sunrise and sunset	Fixes between sunset and sunrise	Sunset and sunrise nocturnal activity factor	Fixes between dawn and dusk	Fixes between dusk and dawn	Dawn and dusk nocturnal activity factor
All OWFs Pooled	280	3	1.07%	282	1	0.35%
DEP	198	7	3.54%	203	2	0.99%
SEP	78	7	8.97%	82	3	3.66%

66. The % increase in predicted Sandwich tern collisions at SEP and DEP as the nocturnal activity value is varied in 1% increments between 1% and 10% is presented in **Table 11-8**. The CRM used to assess this relationship used the design-based densities for flying Sandwich tern presented in **Annex 2**. As a rule of thumb, a 1% increase in nocturnal activity increases annual predicted collisions at SEP and DEP by 0.5%.

Table 11-8: Percentage increases in annual collision rate at SEP and DEP as nocturnal activity is increased

OWF	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
DEP	0.56	1.13	1.69	2.25	2.82	3.38	3.94	4.51	5.07	5.63
SEP	0.49	0.97	1.46	1.94	2.43	2.92	3.40	3.89	4.38	4.86
Average	0.52	1.05	1.57	2.10	2.62	3.15	3.67	4.20	4.72	5.25

11.1.2.5.5 Seabird Biometric Parameters

67. The biometric parameters of the offshore ornithology receptors used for CRM are presented in **Table 11-9**, along with the original reference for each parameter.

Table 11-9: Biometric and bird behaviour parameters for offshore ornithology receptors screened into CRM for SEP and DEP

Species	Flight Type[1]	Body Length (m)[2]	Wingspan (m)[2]	Flight Speed (m/s)
Arctic tern	Flapping	0.34	0.80	10.5[3]
Black-headed gull	Flapping	0.37	1.10	11.9[5]
Common gull	Flapping	0.42	1.30	13.4[5]
Common tern	Flapping	0.33	0.88	10.5[3]
Cormorant	Flapping	0.90	1.45	15.2[5]
Fulmar	Flapping	0.48	1.07	13.0[4]
Gannet	Flapping	0.94	1.72	14.9[4]
Great black-backed gull	Flapping	0.71	1.58	13.7[5]
Guillemot	Flapping	0.40	0.67	19.1[4]
Herring gull	Flapping	0.60	1.44	12.8[5]
Kittiwake	Flapping	0.39	1.08	13.1[5]
Lesser black-backed gull	Flapping	0.58	1.42	13.1[5]
Little gull	Flapping	0.26	0.78	12.2[6]
Razorbill	Flapping	0.38	0.66	16.0[4]
Red-throated diver	Flapping	0.73	1.30	18.6[5]
Sandwich tern	Flapping	0.39	1.00	8.3[7], 10.3[8]

Notes:
1. Flapping selected as flight type for all species; none routinely known to exhibit gliding behaviour

Species	Flight Type[1]	Body Length (m)[2]	Wingspan (m)[2]	Flight Speed (m/s)

2. Body length and wingspan measurements from Robinson (2005)
3. Tern species flight speed from Christensen and Hounisen (2005, 2004)
4. Flight speed from Pennycuick (1997)
5. Flight speed from Alerstam *et al*. (2007)
6. Flight speed from Christensen and Hounisen (2005, 2004); generic flight speed for all gull species recorded
7. Flight speed from Fijn and Collier (2020)
8. Flight speed from Fijn and Gyimesi (2018)

68. These input parameters have previously been used in other recent OWF assessments, and no more recent information has been considered for inclusion in the assessment except in relation to Sandwich tern flight speed.

69. Recent work utilising GPS trackers on breeding Sandwich terns (Fijn and Gyimesi, 2018) has provided more detailed information on flight speed at sea. Loggers on 27 birds returned 7,238 GPS fixes over four breeding seasons (2012 to 2015), with each fix having an instantaneous flight speed associated with it (as opposed to calculated average ('smoothed') flight speeds between points). Loggers were deployed at different stages of the breeding season, either on the nest during the last week of incubation or during later stages of chick rearing. Data assessment found variable flight speeds depending on the type of behaviour being exhibited at the time of observation. Behaviours were manually categorised as commuting to foraging area (defined as straighter movements away from colony, speed >0km/h), foraging (defined as reduced speed in combination with sinuous turning angles, above water), commuting to colony (defined as straighter movements towards colony, speed >0km/h), and transit between foraging areas (defined as straighter movements not coming from or going to the colony, speed >0km/h).

70. Similar work was carried out on birds tagged at the North Norfolk Coast SPA over four breeding seasons (2016 to 2019) (Fijn and Collier, 2020). This was based on 17,755 GPS fixes obtained from 34 tags. The key difference between this work and Fijn and Gyimesi (2018) was the methodology used to identify and categorise behaviours. The more recent study used Hidden Markov Models based on speed and relative turning angle, which enabled the work to be undertaken in a more systematic and efficient manner than the manual approach used previously. This approach also resulted in a classification that was less subjective and more standardised. However, the split in commuting fixes used in Fijn and Gyimesi (2018) (i.e. inbound, outbound and transit) was never programmed, and was therefore not available. This does not impact the use of this dataset by the assessment, since mean flight speeds were used.

71. Both a constant sampling rate (five-minute rate) and a regularised dataset (equal time steps) were required for the analysis of data by Fijn and Collier (2020). Data were 'regularised' to a constant spatial and temporal spacing using R packages 'crawl' (Johnson *et al*., 2008) and 'momentuHMM' (McClintock and Michelot, 2018). The 'crawl' model fit correlated random walk through locations (Johnson and London, 2018), and further allowed interpolative prediction of points at ten-minute intervals. R package 'momentuHMM' was then used to fit a three-state Hidden Markov Model using a gamma distribution for step lengths, and a von Mises distribution for turning angles in R (R Core Team, 2016).

72. Parameter starting values were specified for the three-state Hidden Markov Model as (i) resting (step length: 100±15m sd; turning angle: mean, 0 radians; kappa = 1), (ii) commuting (step length: 1000±300m sd; turning angle: mean, 0 radians; kappa = 50), and (iii) foraging/searching (step length: 500±200m sd; turning angle: mean, 0 radians; kappa = 2). A single model was run across all birds, and distinguished slow variable movements (high spread of turning angles across the distribution (sinuous)) from faster straighter movements (low spread of turning angles and a concentrated kappa distribution).

73. Other than differences in the categorisation of flight activity, the methodology employed was identical to the peer-reviewed and published work of Fijn and Gyimesi (2018).

74. A summary of the findings of both studies is presented in **Table 11-10**.

Table 11-10: Categories of Sandwich tern behaviour during breeding season foraging trips from a Dutch colony, along with mean flight speeds (in metres per second) +/- 1 standard deviation as derived by instantaneous measurement using GPS tags.

Behaviour	Fijn and Gyimesi (2018)	Fijn and Collier (2020)
Foraging	10.4 (+/- 2.7)	7.9 (+/- 4.8)
Commuting to foraging area	8.3 (+/-3.0)	8.5 (+/- 4.6)
Commuting from foraging area	12.3 (+/- 3.3)	
Transit	9.9 (+/-2.1)	Not measured
Overall	10.3 (+/- 3.4)	8.2 (+/- 4.7)

75. The flight speeds calculated in both recent studies are within a standard deviation of one another. The differences between these datasets are likely to be due to a range of factors, including distances being travelled between foraging areas and the colony, differences in wind speed and direction, or other local conditions between the two study areas.

76. It is possible that carrying the tags could result in birds flying slightly slower than untagged birds, though this effect is thought to be relatively small for tern species (Vandenabeele *et al*., 2012).

77. The relationship between flight speed and estimated collision is twofold. On the one hand, a higher flight speed reduces the probability of a single bird colliding with turbine blades on a single transit. However, higher flight speeds also result in a greater predicted flux by the model (i.e. the total number of transits in a given time period). Generally, slower flight speeds produce lower collision rates. This is the case here; reduction of the flight speed from 10.5m/s (as is used by the assessment) to either 10.3m/s or 8.2m/s reduces predicted collision rates by 0.7% and 7.6% respectively.

11.1.2.6 Operational Phase Displacement of Sandwich tern

78. The DOW OMP Sandwich tern study tracked birds breeding at the Scolt Head colony between 2016 and 2019. The information collected makes it very clear that foraging birds utilise habitat within The Wash and regularly make trips out to sea beyond the operational OWFs in the wider area.

79. Over the four years of deployment, data have been collected from 43 GPS tracking devices, with between two and 18 devices deployed per year. Despite limitations including limited temporal coverage and sample size, subject breeding failure and

the influence of tag mounting method on return rate, it is still considered that this is an extremely useful dataset for considering potential operational phase OWF displacement on Sandwich tern breeding at the North Norfolk Coast SPA.

80. Data and information has been taken from annual survey and data reports for the project that were available (Collier *et al*., 2018, 2017, 2016; Green *et al*., 2019; Scragg *et al*., 2016; Thaxter *et al*., 2018), and additional unpublished information provided by project researchers at both Bureau Waardenburg and the British Trust for Ornithology (BTO).

81. Annual core range (50% Utilisation Distribution (UD) polygon), home range (95% UD polygon), and a 75% UD polygon were calculated for Sandwich terns by pooling the Kernel Density Estimates (KDEs) for each individual bird from that year. A method was developed using Hidden Markov Models to identify the behaviour being undertaken at a given point in time based on speed and relative turning angle. This enabled UDs to be presented separately for commuting and other behaviours (which consisted mainly of foraging and resting). Behavioural analysis was not carried out on the 2016 data, since the size of the 2016 dataset was small, and 2016 was a trial year for data collection. These UDs produced are presented in **Figure 11.2** for 2016, **Figures 11.3** to **11.5** for 2017, **Figures 11.6** to **11.8** for 2018, and **Figures 11.9** to **11.11** for 2019.

82. The home range (95% KDE) area overlap with operational OWFs (i.e. DOW, SOW, Race Bank, Lynn, Inner Dowsing and Lincs, and excluding Triton Knoll, where turbine installation did not commence until 2021) was around 5% or less for all tagged birds across the four breeding seasons during which tagging occurred. When Triton Knoll was included, home range UD overlaps were larger, though never greater than 10% for an individual bird. Overlaps of core area (50% KDE) use with OWFs were variable, though often were low (0.1% overlap or thereabouts). Rather than evidence for or against displacement, this is likely to reflect individuality on foraging areas used by specific birds, and the fact that relative to the amount of habitat available for foraging, OWFs occupy a relatively small area. That said, the increase in UD overlap with OWFs when Triton Knoll was included is suggestive of possible displacement of Sandwich tern by operational OWFs.

83. The behaviour most commonly exhibited around the operational OWFs in The Wash was commuting. In all years, the vast majority of commuting activity (all activity in 2016 since the dataset was not split by behaviour) by tagged birds was recorded in habitat between the Scolt Head breeding site, and the nearest OWF sites to the coast (SOW and Race Bank). This is unsurprising given the proximity of this habitat to the breeding colony. During all years in which commuting behaviour was presented separately (2017, 2018 and 2019), what are presumed to be commuting corridors were visible to what are presumed to be foraging grounds beyond The Wash. These apparently preferred commuting routes mainly avoided operational OWFs. In all four years of data collection, the relative position of different UDs (i.e. 50%, 75% and 95%) suggested a barrier effect at SOW, with some evidence of a barrier effect (2018) and displacement (2019) at DOW. No obvious evidence for a displacement or barrier effect at Race Bank was present in the 2018 data, though some evidence for a barrier effect is visible in 2019 data. These patterns are particularly clear in 2017 and 2019, which is probably due to the consistent behaviour of the majority of birds tagged. In these years, the sample size of birds

was small (four birds and ten trips recorded in 2017, and nine birds and 200 trips recorded in 2019). This means that the KDEs of a single individual can have a larger effect on the annual UDs produced. In 2018, whilst there is still a suggestion of avoidance of operational OWFs by commuting birds, the pattern is less obvious. It is thought that this is simply because not all birds carry out avoidance behaviour in response to operational OWFs whilst commuting.

84. In the years where data were available (i.e. 2017, 2018 and 2019), the majority of foraging and resting behaviours were undertaken within the coastal habitats between Scolt Head and the nearest OWFs to the colony, within The Wash, and at hotspots in open waters beyond the Greater Wash. It is assumed that much of the activity nearer the coast and breeding colony consisted of resting. There is evidence of quite high activity along much of the North Norfolk coast at Scolt Head (the breeding site), but also around Holkham and Blakeney Point. This raises the possibility that if birds breeding at Scolt Head regularly mix with birds breeding at Blakeney Point when resting, perhaps the same is true of foraging birds. This would suggest that the foraging areas used by Scolt Head birds will also be frequented by those breeding at Blakeney Point. If this was true, the hotspots for birds breeding at Blakeney Point may bear similarity to those breeding at Scolt Head.

85. What are presumed to be key foraging areas are visible in the data. These are located approximately 50 to 70km offshore to the north and east of Scolt Head. The location of the foraging hotspots varied between years, suggesting there are potentially quite substantial differences in annual and individual Sandwich tern behaviour.

86. Due to the lack of data collected prior to the construction of many of the OWFs in the area, it is not possible to comment on whether activities have changed location due to the presence of operational OWFs. When birds did enter the footprints of operational OWFs, foraging activity was more frequently undertaken than commuting. In particular, there was a notable greater reduction in foraging activity within the footprints of Race Bank and DOW OWFs between 2018 and 2019, than commuting activity. In 2018, the first year of operation for both OWFs, birds foraged within both OWFs much more frequently than 2019.

87. It is not known why Sandwich terns entered OWFs for foraging, but much less so for commuting flight. The reason for differences between the greater levels of activity in 2018, and the reduction in 2019, is also unclear. Studies have demonstrated that sandeel abundance within OWFs in the first year of operation may be similar to or higher than abundance prior to construction, and over longer time periods sandeel abundance within OWFs may be reduced (Deurs *et al*., 2012; Lindeboom *et al*., 2011). The mechanism for this is unclear.

88. Within SEP, the dominant activity was commuting. In DEP, particularly in the DEP-N, foraging was the most common activity. Behaviour in the southern polygon of DEP was split more evenly between foraging and commuting.

11.1.2.7 Population Viability Analysis

89. PVA has been undertaken for several key populations of seabirds subject to potential impacts due to the construction and operation of SEP and DEP in-combination with other projects. These are:

- Sandwich tern of the North Norfolk Coast SPA/Greater Wash SPA
- Gannet of the Flamborough and Filey Coast SPA
- Guillemot of the Flamborough and Filey Coast SPA
- Kittiwake of the Flamborough and Filey Coast SPA
- Razorbill of the Flamborough and Filey Coast SPA

90. Details of the Sandwich tern population, including breeding locations and population trends are provided in **Section 11.1.3.3.24**. Background information for the other populations is provided in the **Report to Inform the Appropriate Assessment** (document reference 5.4).

91. General information which applies to all PVAs is presented in **Table 11-11**. The input parameters for PVAs by species are presented in **Table 11-12** for Sandwich tern, **Table 11-13** for gannet, **Table 11-14** for guillemot, **Table 11-16** for kittiwake and **Table 11-17** for razorbill. Justification for the selection of all parameters is provided where appropriate.

92. The impact scenarios are presented in **Chapter 11 Offshore Ornithology** and **Report to Inform the Appropriate Assessment** (document reference 5.4).

Table 11-11: PVA information relevant to all models for all species

Parameter	Input	Justification/explanation
Environmental stochasticity	Beta/gamma	Cook and Robinson (2016) indicate that metrics derived from deterministic population models consistently predict lower population level effects associated with the impacts of OWFs than those derived from stochastic population models. The latter are likely to be more realistic (Lande *et al*., 2003), providing that appropriately robust information regarding the variation around the model inputs is available.
Demographic stochasticity	Included	
Density dependence	Not included	There is no evidence within the available data which supports the inclusion of density dependence for Sandwich tern at the North Norfolk Coast SPA. This could be due to a genuine absence, or it is operating at scales which make it difficult to detect. Density independent models may overestimate population-level impacts (Miller *et al*., 2019). The omission of density dependence factors from PVA may therefore result in a more precautionary prediction, which can be seen as desirable for impact assessment purposes (if the level of precaution is understood). Sandwich terns can exhibit density depensation, which could increase the rate of population decline in depleted population (Horswill and Robinson, 2015). These factors are considered in the interpretation of model outputs.
Number of simulations	5,000	None
Years for burn-in	5	Ensures that the population age structure being used in the PVA is used throughout the entire impacted period.
Years of impact	40	Predicted operational phase length for SEP and DEP. The in-combination assessment assumes that all OWFs will be operational for this time period.

Table 11-12: Demographic inputs used for Sandwich tern PVA (applicable to Greater Wash SPA and North Norfolk Coast SPA)

Parameter	Input	Justification/explanation
Age of first breeding	3 years	Cramp (1985), Mackenzie (2011), Horswill and Robinson (2015)
Maximum brood size per pair	2	Mackenzie (2011), Stienen and Brenninkmeijer (2006) and Stienen (2006)
Number of subpopulations	1	For the purposes of the PVA Scolt Head and Blakeney Point populations have been combined into a single population
Initial population size	8,369 individuals	Mean population size of the North Norfolk Coast SPA between 2010 and 2019 (i.e. ten years)
Breeding productivity	0.595 (sd 0.223) fledged chicks per pair	Weighted mean productivity of Scolt Head and Blakeney Point colonies between 2010 and 2019 (i.e. ten years)
Adult survival	0.898 (sd 0.116)	Robinson (2010). Standard deviation was built into the Natural England PVA Tool, presumed to have been calculated by Centre for Ecology and Hydrology (CEH) during its development.
Age class 0-1 survival	Not included in PVA	The PVAs have omitted age class-specific survival rates. This is because attempting to run models with the sds included in the PVA tool would return an error message. In addition, it was shown that the counterfactual outputs were the same for models with and without immature and juvenile survival rates incorporated.
Age class 1-2 survival		
Age class 2-3 survival		

Table 11-13: Demographic inputs used for gannet PVA (applicable to Flamborough and Filey Coast SPA)

Parameter	Input	Justification/explanation
Age of first breeding	5 years	Horswill and Robinson (2015)
Maximum brood size per pair	1	Robinson (2005)
Number of subpopulations	1	Flamborough and Filey Coast SPA considered to be a single population.
Initial population size	26,784 individuals	Population size in 2017, at last complete census of the colony (Aitken *et al*., 2017).
Breeding productivity	0.822 (sd 0.040)	Mean productivity between 2009 and 2019, excluding 2013, for which data were not available. Data taken from monitoring reports (Aitken *et al*., 2017, 2014; Babcock *et al*., 2018, 2016, 2015; Lloyd *et al*., 2019) and JNCC (2022).
Adult survival	0.919 (sd 0.042)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural England. It was presumed to have been calculated by CEH during its development.
Age class 0-1 survival	0.424 (sd 0.045)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural

Parameter	Input	Justification/explanation
Age class 1-2 survival	0.829 (sd 0.026)	England. It was presumed to have been calculated by CEH during its development.
Age class 2-3 survival	0.891 (sd 0.019)	
Age class 3-4 survival	0.895 (sd 0.019)	
Age class 4-5 survival	0.919 (sd 0.042)	

Table 11-14: Demographic inputs used for guillemot PVA (applicable to Flamborough and Filey Coast SPA)

Parameter	Input	Justification/explanation
Age of first breeding	6 years	Horswill and Robinson (2015)
Maximum brood size per pair	1	Robinson (2005)
Number of subpopulations	1	Flamborough and Filey Coast SPA considered to be a single population.
Initial population size	121,754 individuals	Population size in 2017, at last complete census of the colony (Aitken *et al*., 2017).
Breeding productivity	0.716 (sd 0.076)	Mean productivity between 2009 and 2019, excluding 2013, for which data were not available. Data taken from monitoring reports (Aitken *et al*., 2017, 2014; Babcock *et al*., 2018, 2016, 2015; Lloyd *et al*., 2019) and JNCC (2022).
Adult survival	0.940 (sd 0.025)	Mean and standard deviation built into the Natural England PVA Tool and recommended for use by Natural England. Standard deviation was presumed to have been calculated by CEH during its development. There is a slight difference between the mean adult survival rate built in the Natural England PVA tool and the equivalent rate presented in Horswill and Robinson (2015) (0.939).
Age class 0-1 survival	0.560 (sd 0.058)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural England. It was presumed to have been calculated by CEH during its development.
Age class 1-2 survival	0.792 (sd 0.152)	
Age class 2-3 survival	0.917 (sd 0.098)	
Age class 3-4 survival	0.938 (sd 0.107)	
Age class 4-5 survival	0.940 (sd 0.025)	
Age class 5-6 survival	0.940 (sd 0.025)	

Table 11-15: Demographic inputs used for guillemot PVA (applicable to Farne Islands SPA)

Parameter	Input	Justification/explanation
Age of first breeding	6 years	Horswill and Robinson (2015)
Maximum brood size per pair	1	Robinson (2005)
Number of subpopulations	1	Farne Islands SPA considered to be a single population.
Initial population size	64,042 individuals	Population size in 2019 (JNCC, 2022).
Breeding productivity	0.787 (sd 0.140)	Values built in Natural England PVA Tool.
Adult survival	0.940 (sd 0.025)	Mean and standard deviation built into the Natural England PVA Tool and recommended for use by Natural England. Standard deviation was presumed to have been calculated by CEH during its development. There is a slight difference between the mean adult survival rate built in the Natural England PVA Tool and the equivalent rate presented in Horswill and Robinson (2015) (0.939).
Age class 0-1 survival	0.560 (sd 0.058)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural England. It was presumed to have been calculated by CEH during its development.
Age class 1-2 survival	0.792 (sd 0.152)	
Age class 2-3 survival	0.917 (sd 0.098)	
Age class 3-4 survival	0.938 (sd 0.107)	
Age class 4-5 survival	0.940 (sd 0.025)	
Age class 5-6 survival	0.940 (sd 0.025)	

Table 11-16: Demographic inputs used for kittiwake PVA (applicable to Flamborough and Filey Coast SPA)

Parameter	Input	Justification/explanation
Age of first breeding	4 years	Horswill and Robinson (2015)
Maximum brood size per pair	2	Robinson (2005)
Number of subpopulations	1	Flamborough and Filey Coast SPA considered to be a single population.
Initial population size	103,070 individuals	Population size in 2017, at last complete census of the colony (Aitken *et al*., 2017).
Breeding productivity	0.580 (sd 0.096)	Supplied by Natural England. This is the mean productivity across all plots in Flamborough/Bempton and Filey between 2012 and 2019. This represents the period when productivity plots were covered in both

Parameter	Input	Justification/explanation
		Flamborough/Bempton and Filey areas of the Flamborough and Filey Coast SPA.
Adult survival	0.854 (sd 0.077)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural England. It was presumed to have been calculated by CEH during its development.
Age class 0-1 survival	0.790 (sd 0.077)	Built into the Natural England PVA Tool. No standard deviation was available, therefore the adult value has been used at the suggestion of Natural England.
Age class 1-2, 2-3 and 3-4 survival	0.854 (sd 0.077)	Built into the Natural England PVA Tool. No standard deviation was available, therefore the adult value has been used at the suggestion of Natural England.

Table 11-17: Demographic inputs used for razorbill PVA (applicable to Flamborough and Filey Coast SPA)

Parameter	Input	Justification/explanation
Age of first breeding	5	Horswill and Robinson (2015)
Maximum brood size per pair	1	Robinson (2005)
Number of subpopulations	1	Flamborough and Filey Coast SPA considered to be a single population.
Initial population size	40,506 individuals	Population size in 2017, at last complete census of the colony (Aitken *et al*., 2017).
Breeding productivity	0.641 (sd 0.068)	Mean productivity between 2010 and 2019. 2009 data excluded at the suggestion of Natural England, Data taken from monitoring reports (Aitken *et al*., 2017, 2014; Babcock *et al*., 2018, 2016, 2015; Lloyd *et al*., 2019) and JNCC (2022).
Adult survival	0.895 (sd 0.067)	Horswill and Robinson (2015). Standard deviation was built into the Natural England PVA Tool and recommended for use by Natural England. It was presumed to have been calculated by CEH during its development.
Age class 0-1 and 1-2 survival	0.630 (sd 0.067)	Mean value was built into the Natural England PVA Tool. No standard deviation was available, therefore the adult value has been used.
Age class 1-2, 2-3 and 3-4 survival	0.895 (sd 0.067)	Mean value (which is the same as adult survival) was built into the Natural England PVA Tool. No standard deviation was available, therefore the adult value has been used.

11.1.3 Ornithology Baseline

11.1.3.1 Seabird Raw Counts

93. The raw counts of seabirds across all baseline surveys is presented in **Table 11-18**.

Table 11-18: Raw counts for all offshore ornithology receptors during all baseline surveys, by reporting region

Species	DEP	DEP+2km	DEP+4km	DEP-N	DEP-N+2km	DEP-N+4km	DEP-S	DEP-S+2km	DEP-S+4km	SEP	SEP+2km	SEP+4km	Study Area
Arctic skua		1	3		1	3							3
Arctic tern	5	7	11	5	7	11						1	17
Black-headed gull	13	17	28	3	7	13	10	10	16	9	18	43	103
Common gull	5	12	22	2	8	16	3	4	6	6	17	29	119
Common scoter											4	6	17
Common tern	37	62	128	30	50	106	7	12	22	7	17	27	230
Cormorant	2	9	12			3	2	9	9				13
Fulmar	7	26	61	5	16	40	2	10	21	2	12	20	126
Gannet	148	387	658	122	297	528	26	90	130	36	93	173	1189
Golden plover											6	6	6
Great black-backed gull	15	34	71	12	28	61	3	6	28	21	48	76	243
Great crested grebe		2	2					2	2				3
Great skua		2	2		1	1		1	1				5
Guillemot	2658	6856	11769	2002	5125	8686	657	1731	3399	454	991	1751	19915
Herring gull	2	9	16	1	5	7	1	4	9	2	21	27	57
Kestrel	1	1	1				1	1	1				2
Kittiwake	631	1475	2658	503	1209	2155	128	266	653	45	123	203	4245
Knot	38	38	38	38	38	38							38
Lapwing													1
Lesser black-backed gull	24	44	89	16	31	67	8	13	22	8	68	85	287
Little gull	28	144	212	12	40	91	16	104	127	8	17	26	363
Little tern												4	4
Long-tailed skua		1	1		1	1							1
Manx shearwater	6	7	21		1	15	6	6	6		2	2	51
Oystercatcher			1			1					1	1	2

Species	DEP	DEP+2km	DEP+4km	DEP-N	DEP-N+2km	DEP-N+4km	DEP-S	DEP-S+2km	DEP-S+4km	SEP	SEP+2km	SEP+4km	Study Area
Pomarine skua													1
Puffin	7	14	35	3	8	25	4	6	11	1	5	7	80
Razorbill	515	1501	2575	382	1063	1901	133	438	755	178	384	626	4820
Red-throated diver	17	30	43	14	24	32	3	6	11	21	40	76	238
Sandwich tern	212	484	809	158	381	667	54	103	143	55	174	339	1710
Shag												1	1
Shelduck			10			10							10
Tufted duck													2
Woodpigeon											1	1	1

11.1.3.2 Seabird Density and Abundance Estimates

94. Seabird density and abundance estimates are presented by survey in **Annex 1**. Each reporting region has its own subsection of this annex. Within this, absolute densities and abundances of all birds recorded in that reporting region are presented in alphabetical order. Each species has up to three tables per reporting region; one for total density and abundance of all birds, one for birds in flight, and one for birds on the sea. A shortened table is presented where densities of zero were recorded on every survey, and where this occurred for all birds, tables showing the corresponding zeroes for birds in flight and on the sea are not presented.

11.1.3.3 Species Accounts

95. Species accounts are provided in the following sections. When referring to the seasonal presence of offshore ornithology receptors, the sections below consider the aerial survey study area only. Seasonal presence of a species behaving in a particular way (e.g. flying) within a particular region within the study area (e.g. SEP or DEP, or their buffers) may vary, which is reflected in the assessment.

11.1.3.3.1 Arctic skua

96. Arctic skua was recorded on three occasions during the baseline surveys (two records in July 2018 and a single record in October 2018). The records were all made outside the boundaries of SEP and DEP (**Figure 11.12**). This species is considered to be a passage species in the area in which SEP and DEP are located (Furness, 2015; Stroud *et al*., 2016). Whilst the July records occur within the full breeding season of May to July (Furness, 2015), it is presumed that these birds were either non-breeding or failed breeding birds from a distant colony, and have therefore been classified as passage records.

97. The estimated mean peak abundance for the aerial survey study area was therefore calculated as six birds during the autumn migration season, and zero for all other biologically relevant seasons.

98. The relevant background population is considered to be the UK North Sea and Channel Biologically Defined Minimum Population Size (BDMPS), consisting of 6,427 individuals during autumn migration (August to October), and 1,227 individuals during spring migration (April to May) (Furness, 2015).

11.1.3.3.2 Arctic tern

99. The baseline surveys recorded Arctic tern within the aerial survey study area in low numbers in April, May and June only. Ten out of 17 records were made during April, with the rest in May (six records) and June (one record). May and June fall within the full breeding season for this species, which is May to August, whilst April falls into the spring migration season (Furness, 2015).

100. The majority of records were concentrated to the north of the aerial survey study area (**Figure 11.13**). Three records occurred within DEP, and none within SEP. The mean peak abundance for the aerial survey study area was 47 birds for the spring migration season and 26 birds during the breeding season.

101. The mean maximum foraging range of Arctic tern is 25.7km (standard deviation 14.8km) (Woodward *et al*., 2019). The nearest breeding population of Arctic terns to SEP and DEP are located on the north Norfolk coast at Scolt Head (located 51km

from DEP and 33km from SEP) and Blakeney Point (located 38km from DEP and 22km from SEP). It therefore seems reasonable to assume that DEP, and maybe also SEP, are beyond a distance from the breeding sites that visits from breeding adults during the breeding season would regularly occur in large numbers.

102. The spatiotemporal distribution suggests that many of the birds recorded in the aerial survey study area are birds on passage. However, on a precautionary basis it is presumed that 100% of birds present at SEP and DEP during the breeding season are breeding adults from breeding sites on the north Norfolk coast. It is considered appropriate to utilise the full breeding season (May to early August) when considering impacts against the breeding season reference population due to the fact that the aerial survey study area is located within the mean plus one standard deviation of the nearest breeding colony. The breeding population at the latest count was <10 pairs in 2018 (JNCC, 2022), which has been used as a reference population.

103. Outside the breeding season, impacts on Arctic tern have been assessed relative to the UK North Sea and Channel BDMPS. This consists of 163,930 individuals during autumn migration (July to early September), and spring migration (late April to May) (Furness, 2015).

11.1.3.3.3 Black-headed gull

104. Black-headed gull was recorded in relatively low numbers during both breeding and non-breeding seasons. Whilst birds were recorded throughout the aerial survey study area, the majority of records were concentrated to the south of the aerial survey study area (**Figure 11.14**). This reflects the coastal, rather than pelagic, nature of this species. Small numbers of birds were recorded in SEP and DEP. The mean peak abundance across the aerial survey study area was 150 birds during the non-breeding season (August to March) and 74 birds during the breeding season (April to July).

105. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Ten flying birds were observed across DEP (of which three were within DEP-N, and seven within DEP-S) throughout the two years of baseline survey. The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

106. The appropriate background population is considered to be the UK non-breeding season population of 200,000 birds (Banks *et al*., 2007).

11.1.3.3.4 Common gull

107. Common gull was recorded in relatively low numbers in all months of the year. Birds were recorded throughout the aerial survey study area, though the majority of records were concentrated in the southern half of the aerial survey study area (**Figure 11.15**). Small numbers of birds were recorded in SEP and DEP. The mean peak abundance for the aerial survey study area was 88 birds during the non-breeding season, and 115 birds during the breeding season.

108. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Only five flying birds were observed across DEP (of which two were within DEP-N, and three within DEP-S). The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

109. The appropriate background population is considered to be the UK non-breeding season population of 700,000 individuals (Banks *et al*., 2007).

11.1.3.3.5 Common scoter

110. Common scoter was only occasionally recorded in the aerial survey study area (during four surveys in September, October, December and February). Of these records, three occurred in the southern half of the aerial survey study area (**Figure 11.16**). No records occurred in either SEP or DEP. All records of birds were during the non-breeding season, which for this species is September to early April (Cramp and Simmons, 1983). The mean peak abundance in the aerial survey study area was 56 birds.

11.1.3.3.6 Common tern

111. The baseline surveys recorded common tern across the aerial survey study area during autumn migration (mean peak of 235 birds), spring migration (mean peak of 203 birds) and the breeding season (mean peak of 222 birds). Records of this species were made throughout the aerial survey study area, with more records made in northern areas (**Figure 11.17**).

112. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). In total, 36 flying birds were observed across DEP (of which 29 were within DEP-N, and seven within DEP-S). When corrected for the different survey transect lengths in both regions of DEP, this means that the encounter rate was 32.2% higher at DEP-N than in DEP as a whole. This has been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. However, it should be noted that this is a low sample size, and this difference is unlikely to be statistically significant. Observations from the model-based density estimation of Sandwich tern (**Section 11.1.3.3.24**) indicate that no statistically significant differences between densities of birds at DEP, DEP-N and DEP-S were apparent. Given the lower number of observations made for this species than Sandwich tern, it is reasonable to expect that this would also be the case for this species. Alteration of quantitative assessment outputs based on this observation has not been carried out, and is not considered to be appropriate.

113. The mean maximum foraging range of common tern is 18km (standard deviation 8.9km), and the maximum recorded foraging range is 30km (Woodward *et al*., 2019). The closest common tern breeding locations to SEP and DEP are at Scolt Head (located 51km from DEP and 33km from SEP) and Blakeney Point (located

38km from DEP and 22km from SEP). This suggests that neither SEP or DEP are likely to form part of the core foraging range of breeding adult birds during the breeding season. Despite this, it is presumed (on a precautionary basis) that 100% of birds present at SEP and DEP during the breeding season are breeding adults from the North Norfolk Coast SPA. It is also considered appropriate to utilise the full breeding season (May to August) when considering impacts against the breeding season reference population. The SPA population at the latest count was 232 pairs in 2018 (JNCC, 2022), of which 214 pairs were recorded at Blakeney Point (99 pairs) and Scolt Head (115 pairs). The remaining 18 pairs were located at Holkham (16 pairs) and Titchwell Marshes (two pairs). The population estimate based on the 2018 count (breeding and non-breeding/sub-adult birds) has been used as a reference population.

114. Outside the breeding season, impacts on common tern have been assessed relative to the UK North Sea and Channel BDMPS, consisting of 144,911 individuals during autumn migration (late July to early September), and spring migration (April to May) (Furness, 2015).

11.1.3.3.7 Cormorant

115. Cormorant was recorded in the aerial survey study area in May, July, August and September. The mean peak count for this species within the aerial survey study area was 21 birds during the breeding season (April to August) and 8 birds during the non-breeding season (September to March). There was no clear pattern in the distribution of birds recorded, with all of them recorded in flight (**Figure 11.18**).

116. The nearest breeding population of this species is located at Holkham (JNCC, 2022), approximately 28km from SEP, and 46km from DEP. Parts of the aerial survey study area therefore fall within the mean maximum foraging range of cormorant (25.6km, standard deviation 8.3km) (Woodward *et al*., 2019). Based on the available information it is presumed that 100% of birds recorded within the aerial survey study area originated from the colony at Holkham. At the last count in 2018, this colony supported 177 breeding pairs, which is considered to be the reference population for this species.

117. Outside the breeding season, impacts on cormorant have been assessed relative to the SW North Sea and Channel BDMPS, consisting of 10,460 individuals during the non-breeding season (Furness, 2015).

11.1.3.3.8 Fulmar

118. Fulmar was recorded within the aerial survey study area during all months of the year with the exception of October and November. It was only ever recorded in relatively low numbers. Mean peak abundances within the aerial survey study area were 89 birds during autumn migration, zero in winter, 20 birds in spring and 67 birds during the breeding season. Records were quite evenly distributed across much of the aerial survey study area (**Figure 11.19**).

119. The low abundances recorded throughout the year during the baseline surveys concord with both the known ecology of this species (Edwards, 2015), and modelled at sea data presented by Waggitt *et al*. (2019).

120. Fulmar has a large mean maximum foraging range (542.3km, standard deviation 657.9km) (Woodward *et al*., 2019). This means that many of its breeding

strongholds within Scotland (Stroud *et al*., 2016) are within foraging range of SEP and DEP. Birds from these areas have previously been recorded in the southern North Sea (Edwards, 2015). However fulmars breed in low numbers at several sites much closer to SEP and DEP, including on the North Norfolk Coast (JNCC, 2022). During the breeding season, it is considered more likely that any birds recorded on sites are locally breeding birds, and this is assumed for the purposes of the assessment.

121. Outside the breeding season, impacts on fulmar have been assessed relative to the UK North Sea BDMPS. This consists of 957,502 individuals during autumn migration (September to October) and spring migration (December to March), and 568,736 individuals during winter (November) (Furness, 2015).

11.1.3.3.9 Gannet

122. Gannets were recorded in the aerial survey study area in all months except January. Records were made throughout the aerial survey study area, with greater numbers of records located in the northern and eastern areas of the study area (**Figure 11.20**).

123. A mean peak of 788 gannets was recorded within the aerial survey study area during the breeding season (March to September) by the baseline surveys.

124. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). In total, 59 flying birds were observed across DEP (of which 41 were within DEP-N, and 18 within DEP-S). This means that encounter rate was 14.0% higher at DEP-N than in DEP as a whole. During the breeding season, of the 34 birds recorded at DEP, 21 were recorded in DEP-N. This means that encounter rate was 1.4% higher at DEP-N than in DEP as a whole during the breeding season. When considering this observation, it must be recognised that the sample size of this dataset during this season is low, and therefore any differences between DEP-N and DEP are highly unlikely to be statistically significant.

125. This species was also screened into the assessment of displacement in **Chapter 11 Offshore Ornithology**, which used design-based density estimates as an input parameter. In total, 387 birds were observed across DEP plus a 2km buffer (of which 297 were within DEP-N plus a 2km buffer, and 90 within DEP-S plus a 2km buffer). This means that encounter rate was 22.0% higher at DEP-N plus a 2km buffer than in DEP plus a 2km buffer. The difference in encounter rate between DEP and DEP-N was the same during the breeding season (208 birds in DEP-N of 271 birds recorded at DEP), and lower during the autumn migration season, when the encounter rate at DEP-N plus a 2km buffer was 17.7% higher than DEP plus a 2km buffer (77 of 104 birds). Only twelve birds were recorded in DEP during spring migration (all of which were in DEP-N), meaning that the sample size of records is considered too small to be considered further by the assessment. Observations from the breeding season, autumn migration season and year round have been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. The comparisons presented above are intended to be used as a basic comparative metric, rather than being designed to be a statistically robust output intended for use

in quantitative assessment. Alteration of quantitative assessment outputs based on this observation has therefore not been carried out, and is not considered to be appropriate.

126. Observations from the model-based density estimation of Sandwich tern (**Section 11.1.3.3.24**) indicate that no statistically significant differences between densities of birds at DEP, DEP-N and DEP-S were apparent. Given the lower number of observations made for this species than Sandwich tern in flight within the OWFs, and relatively similar numbers of all birds recorded in the OWFs plus respective 2km buffers, it is reasonable to expect that this would also be the case for this species. Alteration of quantitative assessment outputs based on this observation has not been carried out, and is not considered to be appropriate.

127. The nearest gannet breeding colony to SEP and DEP is Bempton Cliffs, which lies within the Flamborough and Filey Coast SPA. This is located approximately 124km and 118km from SEP and DEP respectively, and is therefore within the mean maximum foraging range of gannets (315.2km, standard deviation 194.2km) (Woodward *et al*., 2019). Tracking studies of gannets from Bempton Cliffs between 2010 to 2012 suggest very little if any use of SEP and DEP during the breeding season by birds from the Flamborough and Filey Coast SPA (Langston *et al*., 2013). Additionally, modelled at-sea distributions for the breeding season indicate that SEP and DEP fall outside the home foraging range (i.e. the area of habitat in which 95% of a colony's activity is predicted to occur) for gannet from this colony (Wakefield *et al*., 2013).

128. On a precautionary basis, it is presumed that 100% of birds present at SEP and DEP during the breeding season are breeding adults from the Flamborough and Filey Coast SPA. It is expected that an unknown proportion of birds present at SEP and DEP during the breeding season will be non-breeding birds that are not associated with the SPA population. At citation, the Flamborough and Filey Coast SPA population was 8,469 pairs (Natural England, 2018), which increased to 13,392 pairs by 2017 (Aitken *et al*., 2017). The more recent population estimate is used as the reference population by the assessment.

129. The autumn migration season (October and November) was when gannets were most abundant in the aerial survey study area (mean peak of 1,655 birds). The spring migration season (December to February) abundance was much lower (mean peak of 96 birds). This is because a higher proportion of birds which breed on the east coast of the UK migrate back to breeding colonies via the west coast of the UK (Furness, 2015)

130. Migration season impacts on gannet has been assessed relative to the UK North Sea and Channel BDMPS. This consists of 456,298 individuals during autumn migration (September to November), and 248,385 individuals during spring migration (December to March) (Furness, 2015).

11.1.3.3.10 Great black-backed gull

131. This species was recorded year-round during the baseline surveys. There were two regions within the aerial survey study area where records of this species were most frequent. The first was in the southwestern corner of the study area, with the second occurring in the vicinity of DOW and DEP (**Figure 11.21**). Birds were recorded within

both SEP and DEP. However, at SEP, records were concentrated around the southern boundary of the site.

132. Mean peak abundance in the aerial survey study area was highest during the autumn migration season (September to November; 491 birds) and winter (December; 185 birds), and lower during the spring migration season (January to mid-March; 66 birds) and breeding season (late March to August; 27 birds).

133. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Only six flying birds were observed across DEP (of which three were within DEP-N, and another three within DEP-S) across the entire baseline survey programme. The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

134. The mean maximum foraging range of this species is 73km, though this was recorded from just a single study so is of low confidence (Woodward *et al*., 2019). There are no known large colonies present in the wider area in which SEP and DEP are situated, though small numbers (i.e. <5 pairs) are known to breed at RSPB Snettisham (JNCC, 2022), located approximately 75km and 55km from SEP and DEP respectively.

135. Whilst birds recorded within the aerial survey study could originate from this location, it is not certain, particularly since Furness (2015) suggests that breeding birds may remain very close to their colonies during the breeding season. In addition, it is known that immature birds tend to remain in wintering areas (which may include the aerial survey study area). Therefore, it is assumed that the birds present at SEP and DEP during the breeding season are immature birds. The relevant background population during the breeding season may be estimated as the proportion of the relevant BDMPS (the non-breeding season) which are sub-adults. Thus, the breeding season reference population can be calculated as 57.8% of the non-breeding UK North Sea BDMPS population of great black-backed gull (Furness, 2015). This yields a breeding season population of great black-backed gull of 52,829 non-breeding individuals (non-breeding BDMPS for the UK North Sea and Channel, 91,399 x 57.8%).

136. Outside the breeding season, impacts on great black-backed gull have been assessed relative to the UK North Sea BDMPS, consisting of 91,399 individuals during the non-breeding season (September to March) (Furness, 2015).

11.1.3.3.11 Great skua

137. Great skua was recorded on five occasions during the baseline surveys, all of which were in September, October or November. There was no obvious spatial pattern within the observation locations (**Figure 11.22**). The low mean peak abundance for the aerial survey study area in the autumn migration season of August to October (eight birds) and winter season (11 birds, although these were probably late migrant birds) concords with this being a passage species in the area in which SEP and DEP are located (Furness, 2015; Stroud *et al*., 2016).

138. The relevant background population is considered to be the UK North Sea and Channel BDMPS, consisting of 19,556 individuals during autumn migration (August to October), 143 individuals during the non-breeding season (November to February) and 8,485 individuals during spring migration (March to April) (Furness, 2015).

11.1.3.3.12 Guillemot

139. Guillemot was recorded year-round throughout the aerial survey study area (**Figure 11.23**).

140. During the breeding season, the mean peak abundance of guillemot within the aerial survey study area was 10,686 birds. The nearest guillemot colony to SEP and DEP is the Flamborough and Filey Coast SPA. This is located approximately 124km and 118km from SEP and DEP respectively. SEP and DEP are therefore beyond the mean maximum foraging range of breeding adult guillemots (73.2km, standard deviation 80.5km) from this colony, though within the mean maximum foraging range plus a standard deviation (Woodward *et al*., 2019). Utilisation distributions produced from a multiyear tracking dataset consisting of 192 birds (Cleasby *et al*., 2018; Wakefield *et al*., 2017) indicate that SEP and DEP are situated outside the core and home foraging ranges, of adult guillemots breeding at the Flamborough and Filey Coast SPA.

141. This species was screened into the assessment of displacement in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N plus a 2km buffer and DEP-S plus a 2km buffer individually, only DEP plus a 2km buffer (**Section 11.1.2.4.1**). In total, 6,856 birds were observed across DEP plus a 2km buffer during the baseline surveys (of which 5,125 were within DEP-N plus a 2km buffer, and 1,731 within DEP-S plus a 2km buffer). This means that the encounter rate was 18.8% higher at DEP-N plus a 2km buffer than in DEP plus a 2km buffer. This figure was lower during the breeding season, when the encounter rate at DEP-N plus a 2km buffer was 8.5% higher than DEP plus a 2km buffer (1,092 birds recorded at DEP-N, of 1,600 birds recorded across DEP as a whole), and higher during the non-breeding season, when the encounter rate at DEP-N plus a 2km buffer was 22.0% higher than DEP plus a 2km buffer (4,033 birds recorded at DEP-N, of 5,256 birds recorded across DEP as a whole). This has been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. The comparisons presented above are intended to be used as a basic comparative metric, rather than being designed to be a statistically robust output intended for use in quantitative assessment. Alteration of quantitative assessment outputs based on this observation has therefore not been carried out, and is not considered to be appropriate.

142. Based on the existing information regarding this species, its foraging range, and at-sea distribution, it is concluded that there is no connectivity between SEP and DEP during the breeding season with the breeding population of the Flamborough and Filey Coast SPA. Impacts on guillemot have therefore been compared to the appropriate BDMPS. This is considered to be the UK North Sea and Channel BDMPS, consisting of 1,617,306 individuals during the non-breeding season (August to February) (Furness, 2015). Since immature seabirds are known often to

remain in wintering areas during the breeding season, the number of immature birds in the relevant population during the breeding season may be estimated as 43% of the total wintering BDMPS population (Furness, 2015). This gives a breeding season population of 695,441 birds (BDMPS for the UK North Sea and Channel, 1,617,306 x 0.43).

143. The UK North Sea and Channel BDMPS is considered to be the relevant background population for guillemot during the non-breeding season (Furness, 2015), which consists of 1,617,306 birds. During this season, the mean peak abundance estimate of guillemot in the aerial survey study area was 33,251.

11.1.3.3.13 Herring gull

144. Herring gulls were recorded within the aerial survey study area at relatively low densities year-round, with slightly higher numbers of birds typically recorded during the breeding season. More records were made in the southwest half of the aerial survey study area than the northeast half (**Figure 11.24**). It is presumed that this is because the southwest portion of the study area is nearer to the coast. Mean peak abundances across the aerial survey study area were 41 birds during the non-breeding season (September to February) and 52 birds during the breeding season (March to August).

145. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Only a single flying bird was observed across DEP (which was within DEP-N) during the baseline survey programme. The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N will not be statistically significant.

146. The nearest herring gull breeding sites to SEP and DEP lie on the north Norfolk coast. In recent years, birds have been recorded breeding at several locations, including Blakeney Point (latest count 39 nests in 2020), Holkham (latest count 119 nests in 2018), Outer Trial Bank (latest count 1,001 nests in 2018), Titchwell Marsh (latest count one nest in 2017), and Hunstanton town (latest count 65 nests in 2019) (JNCC, 2022). These sites are all located between 20km and 80km from SEP and DEP, which means that they are largely within the mean maximum foraging range of herring gull (58.8km, standard deviation 14.9km) (Woodward *et al*., 2019). These breeding locations are not part of a designated population, and it is not considered that there is connectivity with other designated breeding populations of this species.

147. On this basis, it is considered appropriate to assume that herring gulls recorded at SEP and DEP originate from the breeding populations on the north Norfolk coast, which consists of approximately 1,225 breeding pairs (2,450 breeding adults).

148. Outside the breeding season, impacts on herring gull have been compared to the UK North Sea and Channel BDMPS, consisting of 466,511 individuals during the non-breeding season (September to February) (Furness, 2015).

11.1.3.3.14 Kittiwake

149. Kittiwake was recorded within the aerial survey study area in all months of the year. More records were made in the eastern and northern regions of the aerial survey

study area than the southern and western areas (**Figure 11.25**). Mean peak abundances across the aerial survey study area were 4,351 birds during the autumn migration season (September to December), 175 birds during the spring migration season (January and February), and 3,330 birds during the breeding season (March to August).

150. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). In total, 205 flying birds were observed across DEP (of which 158 were within DEP-N, and 47 within DEP-S). This means that encounter rate was 26.5% higher at DEP-N than in DEP as a whole. During the breeding season, of the 145 birds recorded at DEP, 115 were recorded in DEP-N. When corrected for the different survey transect lengths in both regions of DEP, this means that the encounter rate was 30.2% higher at DEP-N than in DEP as a whole during the breeding season. This has been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. However, it should be noted that this is a relatively low sample size, and these differences are unlikely to be statistically significant. Observations from the model-based density estimation of Sandwich tern (**Section 11.1.3.3.24**) indicate that no statistically significant differences between densities of birds at DEP, DEP-N and DEP-S were apparent. Given the lower number of observations made for this species than Sandwich tern, it is reasonable to expect that this would also be the case for this species. Alteration of quantitative assessment outputs based on this observation has not been carried out, and is not considered to be appropriate.

151. The nearest kittiwake colony to SEP and DEP is the Flamborough and Filey Coast SPA. This is located approximately 124km and 118km from SEP and DEP respectively, and is within the mean maximum foraging range of kittiwake (156.1km, standard deviation 144.5km) (Woodward *et al*., 2019). A tracking study of 20 birds breeding at the Flamborough and Filey Coast SPA in 2017 found an average foraging range of 88.7km. Trips ranged in length from 3.2km to 324km, with birds travelling into the North Sea northwest and southwest of the colony (Wischnewski *et al*., 2017). The utilisation distributions produced from the 2017 tracking data indicate that SEP and DEP are within the core and home foraging ranges of kittiwake from this SPA. The utilisation distributions for adults breeding at the same colony produced from a larger, multiyear tracking dataset consisting of 583 birds (Cleasby *et al*., 2018; Wakefield *et al*., 2017) indicated that SEP and DEP fall within the home foraging range of breeding adult birds from this colony, but not the core foraging range.

152. It is presumed that 100% of birds present at SEP and DEP during the breeding season are breeding adults from the Flamborough and Filey Coast SPA. This is considered to be a precautionary approach since an unknown proportion of birds present at SEP and DEP during the breeding season will be immature and/or non-breeding birds that are not associated with the breeding adult population of the Flamborough and Filey Coast SPA. At citation, the breeding adult population of the Flamborough and Filey Coast SPA was 44,520 pairs, recorded between 2008 and 2011 (Natural England, 2018), with 45,504 pairs recorded in 2017 (Aitken *et al*.,

2017). The more recent estimate of total numbers of individuals (breeding and non-breeding/sub-adult birds) has been used as a reference population.

153. Outside the breeding season, impacts on kittiwake have been compared to the UK North Sea BDMPS, consisting of 829,937 individuals during autumn migration (August to December), and 627,816 individuals during spring migration (January to April) (Furness, 2015).

11.1.3.3.15 Lesser black-backed gull

154. Lesser black-backed gull was recorded within the aerial survey study area in most months of the year, except in January, March and November. Records were relatively evenly distributed throughout the aerial survey study area (**Figure 11.26**). Mean peak abundances across the aerial survey study area were 63 birds during the autumn migration season (September and October), 30 birds during the winter season (November to February), zero birds during the spring migration season (March), and 63 birds during the breeding season (April to August).

155. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Only 16 flying birds were observed across DEP during the baseline surveys (of which ten were within DEP-N, and six within DEP-S). The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

156. The nearest lesser black-backed gull breeding sites to SEP and DEP lie on the north Norfolk coast. In recent years, birds have been recorded breeding at several locations, including Blakeney Point (latest count 10 nests in 2020), Holkham (latest count 5 nests in 2020), Berney Marshes (latest count 20 nests in 2019), Outer Trial Bank (latest count 1,294 nests in 2018) and Hunstanton town (latest count one nest in 2019) (JNCC, 2022). These sites are all located between 20km to 80km from SEP and DEP, which means that they are within the mean maximum foraging range of lesser black-backed gull (127km, standard deviation 109km) (Woodward *et al*., 2019).

157. The nearest SPA that supports breeding lesser black-backed gull as a qualifying feature is the Alde-Ore Estuary SPA. This is located approximately 125km from DEP, and 135km from SEP. Whilst lesser black-backed gull breeding at this SPA are within published mean maximum foraging range of SEP and DEP, tracking data collected from breeding adults at this colony (Thaxter *et al*., 2015) suggest that SEP and DEP do not fall within the home range of this population. Whilst this does not preclude the presence of birds from this SPA at SEP and DEP, this information does suggest that the presence of birds in large numbers during the breeding season is unlikely.

158. On this basis, it is considered appropriate to assume that lesser black-backed gulls recorded at SEP and DEP originate from the breeding populations on the north Norfolk coast, which consists of approximately 1,330 breeding pairs (2,660 breeding adults). The full breeding season (April to August) will be used to assess impacts on this species.

159. Outside the breeding season, impacts on lesser black-backed gull have been compared to the UK North Sea and Channel BDMPS, consisting of 209,007 individuals during autumn migration (August to December), 39,314 individuals during the winter (November to February) and 197,483 individuals during spring migration (March to April) (Furness, 2015).

11.1.3.3.16 Little gull

160. Little gull is a passage species in the area in which SEP and DEP are located, and a qualifying feature of the Greater Wash SPA. Birds were recorded within the aerial survey study area in June to December, but approximately 90% of the 363 records of this species in the aerial survey study area were made in October. This reflects the strong seasonal patterns recorded within the data analysed for the designation of the Greater Wash SPA (Lawson *et al*., 2016). Records of this species occurred throughout the aerial survey study area, with the exception of the southwestern region (**Figure 11.27**).

161. The mean peak for the non-breeding season was 1,599 birds (August to April), and 11 birds for the breeding season (May to July). However, breeding season records are considered to be passage birds which were either failed or non-breeding birds.

162. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). Just 25 flying birds were observed across DEP during the baseline surveys (of which 11 were within DEP-N, and 14 within DEP-S). The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

163. The biogeographic population of the North Sea has previously been estimated to be 75,000 birds (Stienen *et al*., 2007), which is used as the reference population by the assessment.

11.1.3.3.17 Little tern

164. Four records of little tern were made during the baseline survey programme, one in June 2018 and three in August 2018. None of the records occurred within SEP or DEP (**Figure 11.28**). The mean peak count for the aerial survey study area was 8 birds.

165. A number of little tern breeding colonies are present on the north Norfolk and Lincolnshire coasts. However, during the breeding season (May to early August (Furness, 2015)), the foraging range of little tern is very small compared to many breeding seabirds, with a mean maximum of 5km (Woodward *et al*., 2019). This means that no part of the aerial survey study is within foraging range of breeding adult little tern during the breeding season.

166. Whilst the four records made of this species all occurred during the breeding season, it is assumed that the birds recorded are either failed or non-breeding birds. The relevant background population is considered to be the UK North Sea and Channel BDMPS, consisting of 3,524 individuals during autumn migration (late July

to early September) and spring migration (mid-April to May) seasons (Furness, 2015).

11.1.3.3.18 Long-tailed skua

167. Long-tailed skua was recorded on a single occasion during the baseline surveys (May 2019). The mean peak abundance for the aerial survey study area was eight birds. It is considered that this is a passage species in the area in which SEP and DEP are located.

11.1.3.3.19 Manx shearwater

168. Manx shearwater was recorded in May, August, September and October during the baseline surveys, with the vast majority of records occurring in the latter three months. There was no obvious pattern in the location of records across the aerial survey study area (**Figure 11.29**). Manx shearwater does not breed in the vicinity of SEP and DEP, and is considered to be a passage species in this area.

169. The mean peak abundance for the aerial survey study area was 134 birds during the autumn migration season (August to early October), and 44 birds during the breeding season (April to August), though these birds are expected to actually be late spring migrants.

11.1.3.3.20 Pomarine skua

170. Pomarine skua was recorded on a single occasion during the baseline surveys (December 2018). The mean peak abundance for the aerial survey study area was six birds. It is considered that this is a passage species in the area in which SEP and DEP are located.

11.1.3.3.21 Puffin

171. Puffin was recorded within the aerial survey study area in most months of the year, only being absent in December and January. More records were made in the eastern and northern regions of the aerial survey study area than the southern and western areas (**Figure 11.30**). Mean peak abundances across the aerial survey study area were 190 birds during the non-breeding season (mid-August to March), and 55 birds during the breeding season (April to early August).

172. The nearest puffin colony to SEP and DEP is the Flamborough and Filey Coast SPA. This species is listed as a component of the breeding seabird assemblage. This colony is located approximately 124km and 118km from SEP and DEP respectively. This means that SEP and DEP are just within the mean maximum foraging range of breeding adult puffin (137.1km, standard deviation 128.3km) (Woodward *et al*., 2019) from this colony. The distance between the nearest breeding colony and SEP and DEP, suggests that the presence of birds in large numbers during the breeding season is unlikely (i.e. despite the potential for some annual variation, it is still considered that there is a low chance that such an event has been missed by baseline surveys). This is supported by data presented by Waggitt *et al*. (2019), which also indicate that higher numbers of birds might be expected across SEP and DEP outside the breeding season. Despite this, on a precautionary basis, it is presumed that 100% of birds present at SEP and DEP during the breeding season are breeding adults from the Flamborough and Filey Coast SPA.

173. Predicted impacts on puffin during the breeding season have been compared to the latest colony count, which was 4,279 birds recorded on the sea in 2018 (JNCC, 2022). This was an increase on the 2,879 birds recorded on the sea in 2017 (Aitken *et al*., 2017; JNCC, 2022), but is not a definitive count of the breeding population.

174. Outside the breeding season, impacts on puffin have been compared to the UK North Sea and Channel BDMPS, consisting of 231,957 individuals during the non-breeding season (mid-August to March) (Furness, 2015).

11.1.3.3.22 Razorbill

175. Razorbill was recorded within the aerial survey study area in all months of the year. Records occurred throughout the aerial survey study area, though with greater frequency in the eastern half of the study area (**Figure 11.31**). Mean peak abundances across the aerial survey study area were 9,458 birds during the autumn migration season (August to October), 3,377 birds during the winter season (November to December), 901 birds during the spring migration season (January to March), and 3,088 birds during the breeding season (April to July).

176. This species was screened into the assessment of displacement in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N plus a 2km buffer and DEP-S plus a 2km buffer individually, only DEP plus a 2km buffer (**Section 11.1.2.4.1**). In total, 1,501 birds were observed across DEP plus a 2km buffer during the baseline surveys (of which 1,063 were within DEP-N plus a 2km buffer, and 438 within DEP-S plus a 2km buffer). This means that the year round encounter rate was 12.6% higher at DEP-N plus a 2km buffer than in DEP plus a 2km buffer. This figure was lower during the breeding season, when the encounter rate at DEP-N plus a 2km buffer was 8.3% higher than DEP plus a 2km buffer (137 birds recorded at DEP-N, of 201 birds recorded across DEP as a whole). Encounter rates at DEP-N versus DEP were higher during the autumn migration season, when the encounter rate at DEP-N plus a 2km buffer was 14.5% higher than DEP plus a 2km buffer (749 birds recorded at DEP-N, of 1,040 birds recorded across DEP as a whole), and spring migration, when the encounter rate at DEP-N plus a 2km buffer was 19.2% higher than DEP plus a 2km buffer (51 birds recorded at DEP-N, of 68 birds recorded at DEP as a whole). During the winter season, the encounter rate was 4.3% higher at DEP-N plus a 2km buffer than DEP plus a 2km buffer (126 birds recorded at DEP-N, of 192 birds recorded at DEP as a whole). This has been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. The comparisons presented above are intended to be used as a basic comparative metric, rather than being designed to be a statistically robust output intended for use in quantitative assessment. Alteration of quantitative assessment outputs based on this observation has therefore not been carried out, and is not considered to be appropriate.

177. The nearest razorbill colony to SEP and DEP is the Flamborough and Filey Coast SPA. This is located approximately 124km and 118km from SEP and DEP respectively, and is beyond the mean maximum foraging range of razorbill (88.7km, standard deviation 75.9km), though within the mean maximum foraging range plus a standard deviation (Woodward *et al*., 2019).

178. Utilisation distributions produced from a multiyear tracking dataset consisting of 299 birds (Cleasby *et al*., 2018; Wakefield *et al*., 2017) indicate that SEP and DEP are situated outside the home foraging range, of adult razorbills breeding at the Flamborough and Filey Coast SPA. The distance between the nearest razorbill breeding colony, and SEP and DEP, suggests that the presence of birds in large numbers during the breeding season is unlikely (i.e. despite the potential for some annual variation, it is still considered that there is a low chance that such an event has been missed by baseline surveys). This is supported by data presented by Waggitt *et al*. (2019), which also indicate that higher numbers of birds might be expected across SEP and DEP outside the breeding season.

179. Based on the existing information regarding this species, its foraging range, and at-sea distribution, it is concluded that there is no connectivity between SEP and DEP during the breeding season with the breeding population of the Flamborough and Filey Coast SPA. Impacts on razorbill have therefore been compared to the appropriate BDMPS for the season in question, which is the UK North Sea and Channel BDMPS. This consists of 591,874 individuals during passage periods (August to October and January to March), and 218,622 individuals during winter (November and December) (Furness, 2015). Since immature seabirds are known often to remain in wintering areas, the number of immature birds in the relevant population during the breeding season may be estimated as 43% of the total wintering BDMPS population (Furness, 2015). This gives a breeding season population of 94,007 (BDMPS for the UK North Sea and Channel, 218,622 x 0.43).

11.1.3.3.23 Red-throated diver

180. Red-throated divers were recorded in the aerial survey study area in all months except for June, July and August, which makes up around three quarters of the migration free breeding season for this species of May to August (Furness, 2015). Abundance estimates for the aerial survey study area were 180 birds during autumn migration (September to November), 31 birds during winter (December to January), 360 birds during spring migration (February to April) and 134 birds during the breeding season (May to August), though it is assumed that these are either late migrants or non-breeding birds.

181. The majority of red-throated diver records were concentrated in the west and southwest region of the aerial survey study area, though birds were also recorded less frequently elsewhere in the study area (**Figure 11.32**). Many of the records were situated relatively close to existing OWFs (predominantly SOW and Race Bank OWF, but some records were made near DOW).

182. This species was screened into the assessment of displacement in **Chapter 11 Offshore Ornithology**. This used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N plus a 4km buffer and DEP-S plus a 4km buffer individually, only DEP plus a 4km buffer (**Section 11.1.2.4.1**). In total, 43 birds were observed across DEP plus a 4km buffer during the baseline surveys (of which 32 were within DEP-N plus a 4km buffer, and 11 within DEP-S plus a 4km buffer). This means that the year round encounter rate was 15.1% higher at DEP-N plus a 4km buffer than in DEP plus a 4km buffer. The sample size is considered to be too small to factor this into the assessment of impacts at DEP, since any differences in

encounter rate between DEP and DEP-N are highly unlikely to be statistically significant.

183. During the migration seasons (September to November and February to April), the relevant background population is considered to be the UK North Sea BDMPS, consisting of 13,277 individuals (Furness, 2015). Birds recorded in May, which are assumed to be non-breeding birds, have been allocated to this population. The SW North Sea BDMPS population of 10,177 individuals is relevant to the winter period (December and January) (Furness, 2015).

11.1.3.3.24 Sandwich tern

184. Sandwich terns were recorded in the aerial survey study area between March and September, with mean peaks of 1,695 birds during the breeding season (April to August), and 99 birds during autumn migration (September). Records were made throughout the aerial survey study area, though were perhaps in slightly lower numbers in the southeastern and eastern parts of the study area (**Figure 11.33**).

185. This species was screened into the assessment of collision risk in **Chapter 11 Offshore Ornithology**. One approach to the assessment for this species used design-based density estimates as an input parameter. This methodology of density estimation was not able to produce reliable density estimates for DEP-N and DEP-S individually, only DEP (**Section 11.1.2.4.1**). In total, 211 flying birds were observed across DEP (of which 157 were within DEP-N, and 54 within DEP-S). This means that encounter rate was 22.1% higher at DEP-N than in DEP as a whole. During the breeding season, of the 206 birds recorded at DEP, 152 were recorded in DEP-N. This means that encounter rate was 21.1% higher at DEP-N than in DEP as a whole during the breeding season. Only five birds were recorded in DEP during autumn migration (all of which were in DEP-N), meaning that the sample size of records for this season is considered too small to be considered further by the assessment. When considering this observation, it must be recognised that the sample size of this dataset during this season is relatively low, and therefore any differences between DEP-N and DEP are highly unlikely to be statistically significant. This is supported by observations of the outputs of model-based density estimation, as described below.

186. This species was also screened into the assessment of displacement in **Chapter 11 Offshore Ornithology**. One approach to the assessment for this species used design-based density estimates as an input parameter. In total, 212 birds were observed across DEP (of which 158 were within DEP-N, and 54 within DEP-S). This means that encounter rate was 22.3% higher at DEP-N than in DEP. The difference in encounter rate between DEP and DEP-N was similar during the breeding season (153 birds in DEP-N of 207 birds recorded at DEP). Only five birds were recorded in DEP during autumn migration (all of which were in DEP-N), meaning that the sample size of records for this season is considered too small to be considered further by the assessment.

187. Observations from the breeding season, autumn migration season and year round have been considered qualitatively by the assessment in **Chapter 11 Offshore Ornithology**. The comparisons presented above are intended to be used as a basic comparative metric, rather than being designed to be a statistically robust output intended for use in quantitative assessment. Alteration of quantitative assessment

outputs based on this observation has therefore not been carried out, and is not considered to be appropriate.

188. Model-based density estimates have been produced for this species, at the request of Natural England (**Section 11.1.2.4.2** and **Annex 7** for technical details on the modelling itself, and **Chapter 11 Offshore Ornithology** for further information on the consultation). This has enabled the production of figures which enable comment on the distribution of birds across the aerial survey study area (**Figure 11.34** to **Figure 11.47**). Two sets of figures, a and b, are included. Set 'a' retain the same scales throughout, enabling comparison between surveys. Set 'b' figures have had the scale optimised by survey, so should not be used to compare across different surveys.

189. In 2018, model-based density estimation was possible in three months of the breeding season. In May 2018, Sandwich terns were most abundant in the area overlapping the northern section of DEP (**Figure 11.34**). Fewer birds were recorded across the wider study area in June 2018 (**Figure 11.35**), with higher numbers of birds predicted in the northwestern corner of the northern section of DEP, but also in the south of the aerial survey study area, to the west of SOW, in the southern area of SEP. In July 2018 (**Figure 11.36**), the highest numbers of birds of any baseline survey were predicted. The two key hotspots were centred to the north and west of DOW (with some overlap of the northern section of DEP), and an area to the west of SOW. Another hotspot to the north of SOW was also present, but the coefficient of variation in this area was also quite high, indicating that the precision around the density estimate in this area may be relatively low.

190. During the two surveys carried out in April 2019 (**Figure 11.37** and **Figure 11.38**), birds were predicted in highest numbers in the centre of the northern section of DEP, with low numbers predicted across the rest of the study area. The presence of this hotspot remained consistent across the two May 2019 surveys (**Figure 11.39** and **Figure 11.40**), though an additional area of higher density was also apparent to the west of SOW and SEP. Similar patterns were evident in data from the two June 2019 surveys (**Figure 11.41** and **Figure 11.42**), though higher numbers of birds were also predicted to the west of SOW during these months. Data for the two surveys carried out in July 2019 (**Figure 11.43** and **Figure 11.44**), and August 2019 (**Figure 11.45** and **Figure 11.46**) show lower numbers of Sandwich terns predicted across the whole aerial survey study area, with the areas of highest abundance located around DOW and SEP, and to the west and north of SOW and SEP. The same was observed in September 2019 (**Figure 11.47**), with a hotspot centred over the northern section of DEP, and a second located between the north Norfolk Coast and SOW.

191. The differences in Sandwich tern density between DEP, DEP-N and DEP-S by survey, according to the model-based method of density estimation, are presented in **Table 11-19**. Overall, the mean densities of Sandwich tern in DEP-N are predicted to be 16.5% higher than DEP as a whole, with the lower and upper 95% CIs 10.4% and 20.7% respectively higher in DEP-N than DEP. The CVs are comparable for the majority of surveys. Mean densities at DEP-S are somewhat lower than both DEP and DEP-N in the majority of surveys. However, in almost all surveys, there is considerable overlap between the 95% CIs and mean densities for all three regions,

but particularly DEP and DEP-N (**Plate 5**). This indicates that the differences in densities between regions are highly unlikely to be statistically significant.

Table 11-19: Mean and 95% lower and upper CIs of Sandwich tern at DEP, DEP-N and DEP-S along with coefficients of variation by survey, calculated using model-based density estimation methods

Survey	DEP				DEP-N				DEP-S			
	Mean	95% LCI	95% UCI	CV %	Mean	95% LCI	95% UCI	CV %	Mean	95% LCI	95% UCI	CV %
2018-M05-S01	1.61	1.00	2.48	23.4	1.88	1.16	2.91	24.7	1.11	0.70	1.67	21.1
2018-M06-S01	0.29	0.14	0.56	41.5	0.40	0.19	0.75	38.6	0.10	0.04	0.22	46.8
2018-M07-S01	2.39	1.68	3.31	21.3	3.46	2.46	4.75	18.5	0.34	0.19	0.55	26.7
2019-M04-S01	1.51	0.67	2.95	39.0	1.96	0.87	3.83	39.7	0.66	0.30	1.27	37.7
2019-M04-S02	1.51	0.66	3.01	39.2	1.95	0.84	3.91	40.5	0.68	0.31	1.28	36.8
2019-M05-S01	0.88	0.54	1.35	23.7	1.07	0.66	1.66	24.1	0.49	0.31	0.74	22.9
2019-M05-S02	0.87	0.55	1.33	23.8	1.06	0.66	1.62	24.4	0.51	0.32	0.77	22.5
2019-M06-S01	0.66	0.32	1.23	38.2	0.94	0.46	1.74	35.2	0.11	0.04	0.22	43.9
2019-M06-S02	0.57	0.29	0.99	36.4	0.81	0.42	1.40	33.0	0.11	0.05	0.22	42.7
2019-M07-S01	0.18	0.08	0.37	47.5	0.15	0.05	0.35	58.4	0.24	0.15	0.39	25.9
2019-M07-S02	0.18	0.08	0.38	49.1	0.15	0.05	0.38	61.2	0.24	0.15	0.39	25.6
2019-M08-S01	0.12	0.05	0.27	80.8	0.08	0.02	0.23	104.9	0.19	0.10	0.36	34.7
2019-M08-S02	0.12	0.05	0.28	82.5	0.08	0.02	0.23	106.0	0.20	0.09	0.37	36.9
2019-M09-S01	0.33	0.12	0.80	65.3	0.49	0.17	1.15	56.5	0.04	0.01	0.11	82.5

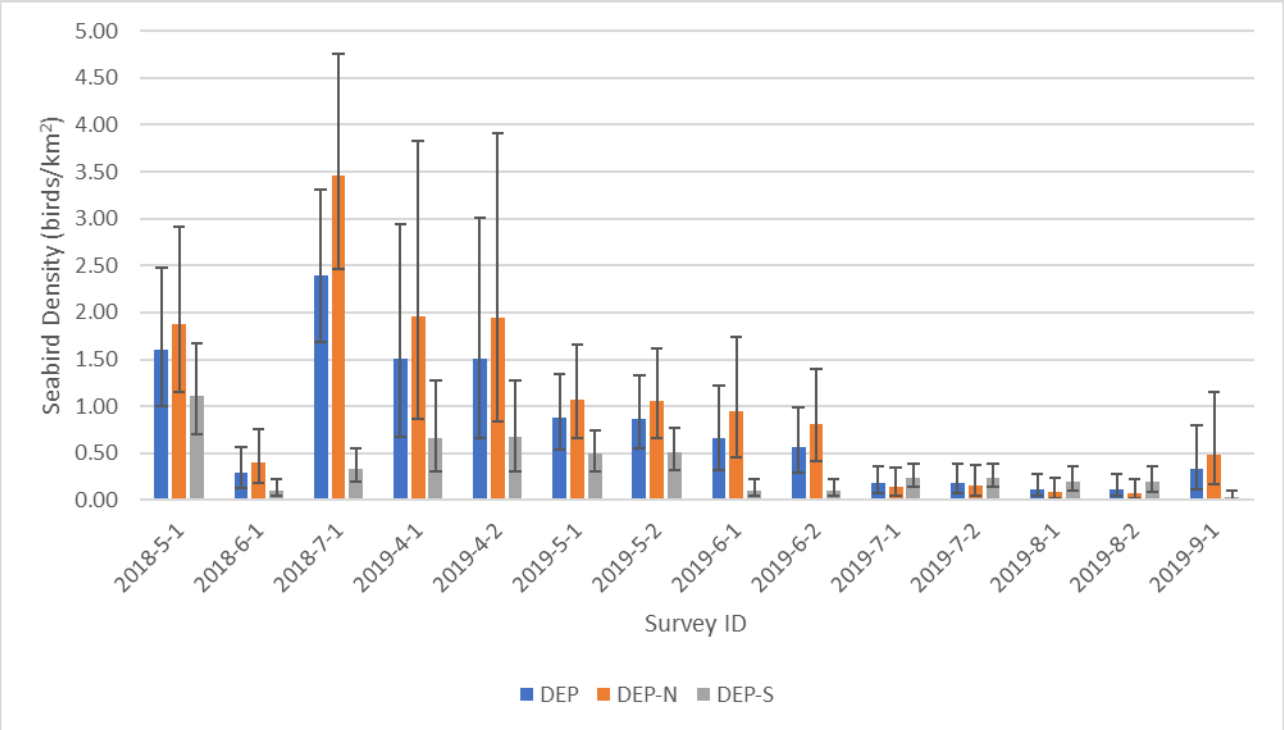

Plate 5: Mean and 95% lower and upper CIs of Sandwich tern at DEP, DEP-N and DEP-S along with coefficients of variation by survey, calculated using model-based density estimation methods

192. The nearest breeding population of Sandwich terns to SEP and DEP is located within the North Norfolk Coast SPA, of which Sandwich tern is a qualifying feature. Within the boundary of the North Norfolk Coast SPA, Sandwich tern breed at two principal colonies; Blakeney Point and Scolt Head (JNCC, 2022; Perrow *et al*., 2017). Alternative Sandwich tern breeding locations within the SPA, such as Holkham, have been unused since 2004 (JNCC, 2022).

193. Scolt Head is located 51km from DEP and 33km from SEP, and Blakeney Point is located 38km from DEP and 22km from SEP (**Table 11-20**). The mean maximum foraging range of Sandwich tern is 34.3km (±23.2km), and the maximum foraging range is 54km (Woodward *et al*., 2019). The mean maximum breeding season foraging range of Sandwich tern from the previous industry standard review of seabird foraging ranges, Thaxter *et al.* (2012), was 49km (±7.1km) based on data from two sites. The updated review of Woodward *et al.* (2019), based on five sites, gives a smaller mean maximum foraging range. However, it was noted by the recent review that clear differences in data collected using different methods (i.e. boat tracking versus tagged birds) means that the confidence level in the data was changed from “high” to “moderate”.

Table 11-20: Approximate distances between North Norfolk Coast SPA Sandwich tern breeding locations and SEP and DEP

Location	Distance from DEP (km)	Distance from SEP (km)
Nearest SPA boundary	37	21
Scolt Head	51	33
Blakeney Point	38	22

194. SEP is within the mean maximum foraging range of Sandwich terns from the North Norfolk Coast SPA breeding at both Scolt Head and Blakeney Point. DEP, however, is outside the mean maximum foraging range of birds at both colonies, but within mean maximum foraging range plus one standard deviation, and the maximum foraging range. The latter two measurements are considered to be poor indicators of typical foraging behaviour. It would be expected that few birds or foraging trips will occur at this distance from the colony, and even fewer with any regularity.

195. It has been recently demonstrated by GPS tracking of birds breeding at Scolt Head between 2016 and 2019 (Scragg *et al*., 2016; Thaxter *et al*., 2018; Green *et al*., 2018, 2019) that birds from Scolt Head do make trips to SEP, DEP and the habitats surrounding them. This provides clear evidence of connectivity between the North Norfolk Coast SPA.

196. Given the distance between the breeding sites and DEP in particular, it is possible that not all Sandwich terns present in these areas during the breeding season are breeding adults from the North Norfolk Coast SPA. Some birds may be non-breeding birds from either the North Norfolk Coast SPA, or other colonies, both in the UK and elsewhere. Despite this, the assessment takes the view that 100% of Sandwich terns present at SEP and DEP during the full breeding season (April to August; Furness (2015)) are breeding adults from the North Norfolk Coast SPA. Whilst this assumption is reasonable for purposes of assessment, it may be the case that this is a precautionary assumption.

197. Recent trends in the North Norfolk Coast SPA Sandwich tern population are described in the data presented in **Table 11-21**. Though population size has at times fluctuated since 1989, the recent trend is an increasing one. The most recent published count estimated the population to be 13,170 breeding adults in 2020 (JNCC, 2022). The large increase in population size between 2019 and 2020 (almost 4,000 birds) was due to an influx of birds from a failed Dutch colony that moved to the North Norfolk area later in the spring. This has been evidenced via unpublished ringing and colour ringing observations.

Table 11-21: Annual Sandwich tern population estimation and breeding success at the North Norfolk Coast SPA by breeding colony since 2008 (JNCC, 2022).

Year	Scolt Head		Blakeney Point		Total Adults
	Nests	Success (fledged chicks per pair)	Nests	Success (fledged chicks per pair)	
2004	1,800	0.34	1,260	0.34	6,120
2005	1,900	0.87	1,650	0.55	7,100
2006	2,500	0.80	950	0.86	6,900
2007	1,800	0	1,800	0.78	7,200
2008	280	0.01	2,400	0.64	5,360
2009	No data	-	3,100	0.42	6,200
2010	480	0	2,500	0.36	5,960
2011	0	-	3,562	0.52	7,124
2012	400	0	3,735	0.59	8,270
2013	550	0	4,120	0.44	9,340
2014	1,050	0.60	2,859	0.19	7,818
2015	3,550	0.90	1,113	0.01	9,326

Year	Scolt Head		Blakeney Point		Total Adults
	Nests	Success (fledged chicks per pair)	Nests	Success (fledged chicks per pair)	
2016	3,365	0.80	451	0.39	7,632
2017	4,665	0.94	3	0	9,336
2018	4,685	0.85	165	0.12	9,700
2019	3,805	No data	788	0.51	9,186
2020	4,160	0.72	2,425	0.45	13,170

198. In the years during the collection of the majority of baseline data (2018 and 2019), the mean Sandwich tern population of the North Norfolk Coast SPA was 9,443 individuals. This population is used as the reference population for the assessment.

199. Since 2015, the majority of Sandwich terns breeding in the North Norfolk Coast SPA and Ramsar site have been located at Scolt Head. Another breeding site at Blakeney Point was the location with the most breeding activity from 1979 to 2015, but held very few birds prior to 1976 (JNCC, 2022). In 2019, 2020 and 2021, numbers of birds breeding at Blakeney Point have increased (JNCC, 2022).

200. The selection of a preferred breeding location generally shifts every few years, and is thought to be due to a number of reasons. These include the presence of black-headed (positive factor) and large gulls (negative factor) at the start of the breeding season, the presence of non-avian predators (e.g. rats and foxes), and the state of vegetation.

201. As baseline data for the site were collected at a time when the majority of Sandwich terns were breeding at Scolt Head, the impacts predicted by the assessment might be less applicable to years when the majority of Sandwich terns breed at Blakeney Point, which is closer to SEP and DEP. Whilst it might be expected that the 2019 baseline data represent a situation with reasonable numbers of breeding birds at Blakeney Point (given that 788 pairs of birds bred at Blakeney Point in that year), a range of data sources were consulted to investigate the potential effects of higher numbers breeding at Blakeney Point.

202. Predicted at-sea usage models produced from 108 Sandwich tern tracks collected across three breeding seasons (2006, 2007 and 2008) were assessed (Wilson *et al.*, 2014). These included 48 tracks from Scolt Head and 60 from Blakeney Point. The environmental covariates selected in the most parsimonious model were distance to colony, distance to shore, bathymetry and shear stress wave (i.e. peak seabed wave kinetic energy). The DSMs produced were overlaid with SEP and DEP in a Geographic Information System (GIS) to assess the relative importance of both OWFs to birds breeding at Scolt Head and Blakeney Point. For Sandwich terns breeding at Scolt Head, 0.029% of the total at-sea activity at any given time was predicted to occur within SEP. When breeding at Blakeney Point, this increased to 0.364% (a 12.5-fold increase). The mean activity value for cells within SEP in both models are within the bottom 2.5% of values for predicted at-sea usage, indicating that according to the models, SEP does not represent an important habitat for breeding foraging Sandwich terns from the North Norfolk Coast SPA. However, a predicted increase in Sandwich tern abundance at SEP when larger numbers of birds breed at Blakeney Point is plausible based on the data presented. At DEP, an equivalent comparison was not possible, as the spatial coverage of the model for

birds breeding at Scolt Head does not overlap with DEP. Modelled at-sea usage for breeding Sandwich terns from Blakeney Point indicates that 0.023% of the total at-sea activity at any given time was predicted to occur within DEP. As Scolt Head is further away from DEP than Blakeney Point, and distance from colony is the only covariate in the model for which values at Scolt Head and Blakeney Point differ, it is reasonable to conclude that the predicted activity at DEP for birds breeding at Scolt Head would be lower than for birds breeding at Blakeney Point.

203. Anecdotal observations from the SOW OMP (Harwood *et al*., 2018) indicate that a switch of breeding birds to Scolt Head was thought to be a contributory factor in reductions in Sandwich tern numbers at SOW during one operational year. However, no evidence was collected that enabled these events to be linked more formally, and the observation was made over just a single breeding season. Due to the nature of the tern tracking data collected by Harwood *et al*. (2018) (i.e. the opportunistic nature of locating birds for tracking), it was not considered appropriate to undertake quantitative comparisons of tern numbers reported between years.

204. Since the 2016 breeding season, the DOW OMP has been tagging Sandwich terns breeding at Scolt Head to enable greater insight into the at-sea distribution of foraging individuals. Data from nine birds in 2016, two in 2017, 19 in 2018 and nine in 2019 contributed to the latest analysis and overview of these data (Green *et al*., 2019). Whilst the largest area of highest Sandwich tern activity is located much closer to Scolt Head than either SEP or DEP, there are areas of high activity situated further from Scolt Head. Some of these, including an area overlapping DEP and extending to the north of it, appear in multiple years. This suggests the existence of 'preferred' Sandwich tern feeding areas that persist between breeding seasons. The apparent predetermined nature of Sandwich tern foraging discussed in Perrow *et al*. (2017) (i.e. that birds have selected their destination on foraging trips prior to leaving the colony or early in the trip) adds further weight to this hypothesis, though the suggestion from the same paper that foraging ranges of birds at both colonies might be somewhat distinct does not. When breeding shifts to Blakeney Point it is assumed that birds will likely continue to use this feeding area, possibly, but not definitely, in greater numbers than when birds breed at Scolt Head.

205. As Blakeney Point is considerably closer to SEP and DEP than Scolt Head (by approximately 15km and 10km, respectively; **Table 11-20**), an increased level of Sandwich tern activity at both SEP and DEP could occur if the majority of breeding birds relocate to Blakeney Point, which is likely at some point in the future. This is supported by the general principle of central place foraging theory, and by the Sandwich tern usage models produced by Wilson *et al*. (2014). These models also suggest limited connectivity between breeding foraging Sandwich terns and DEP, which does not accord with published foraging distances or the baseline data collected. Whilst unconfirmed, it is possible that the reasons for this are related to methodological limitations of the tern tracking methods (i.e. limited range of the boat to track birds, or boats being outrun by birds in flight). It is clear from UDs produced from the recent GPS tracking data (Green *et al*., (2019)) that persistent foraging hotspots occurred in 2018 and 2019 for Sandwich terns breeding at Scolt Head, and it is possible, assuming that the use of these areas persists, that the choice of breeding site may not result in substantial changes in at-sea distribution.

206. It is not possible to quantitatively correct for this potential variability in Sandwich tern distribution at sea based on their choice of breeding site. However, qualitative consideration is incorporated into the assessment for Sandwich tern.

207. Outside the breeding season, the predicted mortality of Sandwich terns due to impacts at SEP and DEP has been compared to the appropriate BDMPS for the season in question. The relevant background population is considered to be the UK North Sea and Channel BDMPS, consisting of 38,051 individuals during autumn migration (July to September), and spring migration (March to May) (Furness, 2015).

11.1.3.3.25 Shag

208. Shag was only recorded once during the baseline surveys; in February 2020, which is within the breeding season for this species. The record was located in the southwest of the aerial survey study area (**Figure 11.48**). The mean peak count for this species within the aerial survey study area was 15 birds during the breeding season, and zero in the non-breeding season.

11.1.4 References

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11.1.5 ANNEX 1: Seabird Density and Abundance by Survey

11.1.5.1 DEP

Table 11-0-1: Arctic skua density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-2: Arctic tern density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.39	0.01	1.03	41	1	107	74.6%	4
2019-M05-S01	0.02	0.01	0.03	2	1	4	34.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-3: Arctic tern density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.32	0.00	0.82	33	0	85	72.7%	4
2019-M05-S01	0.02	0.01	0.03	2	1	4	35.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-4: Arctic tern density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.07	0.00	0.19	8	0	20	78.5%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-5: Black-headed gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.14	0.00	0.40	16	0	42	82.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.17	0.00	0.39	18	0	40	60.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.13	0.00	0.31	14	0	33	59.1%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	96.2%	4
2019-M10-S01	0.19	0.00	0.42	20	0	44	80.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.00	0.26	10	0	28	86.2%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-6: Black-headed gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.16	0.00	0.37	17	0	39	60.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.13	0.00	0.31	14	0	33	61.8%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	97.4%	4
2019-M10-S01	0.20	0.00	0.44	21	0	46	71.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.00	0.26	10	0	27	83.0%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-7: Black-headed gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.14	0.00	0.41	15	0	43	86.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-8: Common gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.27	0.00	0.68	28	0	71	68.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.06	0.00	0.16	7	0	18	80.1%	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	88.7%	4
2019-M05-S02	0.04	0.00	0.13	5	0	14	92.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	96.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.09	0.00	0.26	10	0	28	91.4%	4

Table 11-0-9: Common gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.26	0.00	0.69	27	0	72	73.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.13	5	0	14	90.8%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.05	0.00	0.13	5	0	14	89.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	98.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-10: Common gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.04	2	0	5	58.3%	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	91.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.09	0.00	0.26	10	0	28	89.2%	4

Table 11-0-11: Common scoter density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-12: Common tern density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.09	0.00	0.32	10	1	33	96.9%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.14	0.00	0.41	15	0	43	85.8%	4
2019-M04-S02	1.57	0.04	4.41	163	4	457	82.1%	4
2019-M05-S01	0.38	0.09	0.85	40	9	89	55.4%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.13	0.00	0.31	14	0	33	61.6%	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	99.0%	4
2019-M07-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.09	0.00	0.25	9	0	27	85.8%	4
2019-M08-S02	0.22	0.00	0.49	23	0	51	56.9%	4
2019-M09-S01	0.55	0.00	1.58	57	0	164	89.2%	4
2019-M10-S01	0.09	0.00	0.27	9	0	28	85.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-13: Common tern density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.09	0.00	0.26	10	1	28	96.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.14	0.00	0.40	15	0	42	84.3%	4
2019-M04-S02	0.94	0.00	2.67	98	0	278	84.3%	4
2019-M05-S01	0.34	0.09	0.66	35	10	69	46.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.14	0.00	0.31	15	0	33	60.3%	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	99.7%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.09	0.00	0.25	9	0	27	90.4%	4
2019-M08-S02	0.23	0.00	0.49	24	0	51	53.5%	4
2019-M09-S01	0.58	0.00	1.60	60	0	166	85.4%	4
2019-M10-S01	0.08	0.00	0.27	8	0	28	88.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-14: Common tern density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.62	0.00	1.66	64	0	173	77.6%	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	87.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-15: Cormorant density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.09	0.00	0.26	10	0	27	83.5%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.04	0.00	0.13	5	0	14	86.5%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-16: Cormorant density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.09	0.00	0.27	10	0	29	85.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.04	0.00	0.13	5	0	14	84.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-17: Cormorant density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-18 Fulmar density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.04	0.00	0.12	5	0	13	86.8%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M03-S01	0.10	0.00	0.30	10	0	32	87.1%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	89.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.04	0.00	0.13	5	0	14	93.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.30	0.16	0.42	31	17	44	23.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-19: Fulmar density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	88.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.04	0.00	0.13	5	0	14	91.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.13	0.00	0.27	14	0	28	50.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-20: Fulmar density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.04	0.00	0.12	5	0	13	87.5%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.09	0.00	0.30	10	0	32	91.3%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.16	0.04	0.28	17	5	29	37.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-21: Gannet density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.09	0.00	0.25	9	0	27	89.6%	4
2018-M07-S01	0.18	0.00	0.43	19	0	45	60.0%	4
2018-M08-S01	0.09	0.00	0.22	10	0	23	64.6%	4
2018-M09-S01	0.43	0.08	0.85	45	9	88	46.1%	4
2018-M10-S01	0.27	0.09	0.44	28	9	46	37.6%	2
2018-M11-S01	1.00	0.44	1.65	104	46	171	31.2%	2
2018-M12-S01	0.18	0.00	0.41	19	0	43	57.2%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.27	9	0	28	-	2
2019-M03-S01	0.17	0.00	0.46	18	0	48	-	4
2019-M04-S01	0.46	0.13	0.78	48	14	82	-	4
2019-M04-S02	0.09	0.00	0.17	10	0	18	-	4
2019-M05-S01	0.10	0.00	0.24	11	0	26	-	4
2019-M05-S02	0.05	0.00	0.14	5	0	15	-	4
2019-M06-S01	0.18	0.00	0.52	19	0	54	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.04	0.00	0.12	5	0	13	-	4
2019-M07-S02	0.09	0.00	0.21	10	0	23	-	4
2019-M08-S01	0.17	0.08	0.29	19	9	30	-	4
2019-M08-S02	0.13	0.00	0.30	14	0	32	-	4
2019-M09-S01	1.73	0.04	3.82	179	5	397	-	4
2019-M10-S01	1.08	0.25	2.16	112	26	224	-	2
2019-M11-S01	1.35	0.27	3.06	140	28	317	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	4
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.49	0.26	0.76	52	27	79	26.1%	4

Table 11-0-22: Gannet density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.05	0.00	0.16	5	0	17	95.1%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.17	0.00	0.41	18	0	43	61.9%	4
2018-M10-S01	0.17	0.00	0.36	18	0	37	56.3%	2
2018-M11-S01	0.82	0.34	1.35	86	35	140	32.2%	2
2018-M12-S01	0.18	0.00	0.41	19	0	43	57.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.17	0.00	0.42	18	0	44	78.8%	4
2019-M04-S01	0.31	0.04	0.63	33	5	66	47.4%	4
2019-M04-S02	0.09	0.00	0.17	10	0	19	52.7%	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	97.8%	4
2019-M05-S02	0.05	0.00	0.13	5	0	14	91.0%	4
2019-M06-S01	0.09	0.00	0.22	10	0	23	66.1%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.04	0.00	0.16	5	0	17	100.1%	4
2019-M08-S01	0.05	0.00	0.13	5	0	14	81.7%	4
2019-M08-S02	0.04	0.00	0.13	5	0	14	89.5%	4
2019-M09-S01	0.09	0.00	0.21	10	0	22	58.6%	4
2019-M10-S01	0.82	0.09	1.96	85	9	203	58.6%	2
2019-M11-S01	0.47	0.00	1.05	49	0	109	62.2%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	4
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.45	0.22	0.69	47	23	72	28.3%	4

Table 11-0-23: Gannet density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.09	0.00	0.25	10	0	27	87.0%	4
2018-M07-S01	0.09	0.00	0.22	10	0	23	67.8%	4
2018-M08-S01	0.09	0.00	0.22	10	0	23	63.7%	4
2018-M09-S01	0.26	0.00	0.65	27	0	68	63.6%	4
2018-M10-S01	0.09	0.00	0.26	9	0	27	86.9%	2
2018-M11-S01	0.18	0.00	0.45	19	0	47	69.3%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.27	9	0	28	95.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.13	0.00	0.30	14	0	32	61.6%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	92.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.09	0.00	0.27	10	0	28	97.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0.04	0.00	0.13	5	0	14	90.0%	4
2019-M08-S01	0.04	0.00	0.13	5	0	14	90.4%	4
2019-M08-S02	0.13	0.04	0.25	14	4	27	45.9%	4
2019-M09-S01	0.09	0.00	0.27	10	0	28	91.9%	4
2019-M10-S01	1.57	0.04	3.55	163	5	368	57.7%	2
2019-M11-S01	0.27	0.00	0.80	28	0	83	90.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	4
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.00	0.13	5	0	14	91.3%	4

Table 11-0-24: Golden plover density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-25: Great black-backed gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.13	5	0	14	98.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.06	0.00	0.17	7	0	19	85.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.26	9	0	27	86.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.13	0.00	0.37	13	0	38	100.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.26	9	0	27	85.9%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.34	0.00	0.79	36	0	82	62.2%	4
2019-M10-S01	0.09	0.00	0.27	9	0	28	91.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.09	0.00	0.22	10	0	23	64.0%	4

Table 11-0-26: Great black-backed gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.13	5	0	14	104.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.06	0.00	0.18	7	0	19	84.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.26	10	0	27	84.9%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.09	0.00	0.27	10	0	28	93.1%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.26	9	0	27	90.7%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.09	0.00	0.26	9	0	27	90.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-27: Great black-backed gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.35	0.00	0.80	37	0	84	61.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.09	0.00	0.22	10	0	23	65.4%	4

Table 11-0-28: Great crested grebe density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-29: Great skua density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-30: Guillemot density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	3.66	2.57	4.73	381	267	490	16.5%	4
2018-M06-S01	1.24	0.34	2.44	129	37	253	45.7%	4
2018-M07-S01	2.66	0.92	4.87	276	96	505	42.0%	4
2018-M08-S01	25.87	14.34	37.87	2681	1485	3924	24.7%	4
2018-M09-S01	3.42	1.87	5.06	355	194	524	26.2%	4
2018-M10-S01	14.43	5.38	27.21	1496	558	2822	39.6%	2
2018-M11-S01	7.67	5.21	10.26	796	541	1064	16.4%	2
2018-M12-S01	4.15	1.52	7.41	431	157	768	35.8%	2
2019-M01-S01	2.57	1.30	4.15	266	135	431	22.1%	2
2019-M02-S01	2.72	1.32	4.50	282	137	467	29.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	2.38	1.42	3.34	248	147	348	23.0%	4
2019-M04-S02	3.23	1.96	5.03	336	203	521	26.8%	4
2019-M05-S01	4.01	2.38	5.88	418	248	610	24.6%	4
2019-M05-S02	0.26	0.07	0.47	28	7	50	46.4%	4
2019-M06-S01	0.75	0.00	1.64	79	0	171	51.9%	4
2019-M06-S02	1.32	0.67	2.09	138	70	217	26.8%	4
2019-M07-S01	2.04	0.93	3.24	212	97	336	29.7%	4
2019-M07-S02	3.08	0.29	7.98	320	32	827	84.1%	4
2019-M08-S01	0	0	0	0	0	0		4
2019-M08-S02	1.65	0.80	2.74	171	84	284	33.3%	4
2019-M09-S01	67.68	30.02	110.97	7011	3110	11494	33.4%	4
2019-M10-S01	8.71	5.18	12.40	903	537	1286	20.3%	2
2019-M11-S01	3.28	1.29	6.07	340	134	630	35.4%	2
2019-M12-S01	1.19	0.32	2.31	124	33	240	47.9%	2
2020-M01-S01	1.10	0.50	1.79	115	52	186	35.7%	2
2020-M02-S01	1.61	0.44	2.59	167	46	269	31.8%	2
2020-M03-S01	3.57	2.05	5.28	371	213	547	23.5%	4
2020-M04-S01	23.07	8.92	51.51	2390	925	5336	50.4%	4

Table 11-0-31: Guillemot density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.05	0.00	0.13	5	0	14	86.7%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.09	0.00	0.28	10	0	29	101.6%	2
2018-M12-S01	0.09	0.00	0.27	10	0	28	95.7%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	99.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.03	0.00	0.10	4	0	10	85.3%	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	97.8%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.00	0.26	10	0	27	84.9%	4
2020-M04-S01	2.10	1.03	3.41	218	107	354	29.3%	4

Table 11-0-32: Guillemot density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.78	1.95	3.59	289	203	372	15.0%	4
2018-M06-S01	0.94	0.26	1.85	98	28	192	43.8%	4
2018-M07-S01	1.98	0.70	3.60	206	73	373	39.5%	4
2018-M08-S01	19.65	10.89	28.76	2036	1128	2980	23.1%	4
2018-M09-S01	2.60	1.42	3.84	270	147	398	24.7%	4
2018-M10-S01	11.66	4.35	21.98	1209	451	2280	34.8%	2
2018-M11-S01	6.12	4.21	8.06	635	437	836	14.5%	2
2018-M12-S01	3.28	1.22	5.77	340	127	598	32.1%	2
2019-M01-S01	2.07	1.05	3.36	215	109	348	19.5%	2
2019-M02-S01	2.20	1.07	3.64	228	111	377	25.9%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	1.81	1.08	2.54	188	112	264	21.2%	4
2019-M04-S02	2.45	1.49	3.82	255	154	396	24.7%	4
2019-M05-S01	3.01	1.81	4.35	313	188	451	22.5%	4
2019-M05-S02	0.20	0.05	0.36	21	5	38	41.0%	4
2019-M06-S01	0.55	0.00	1.17	57	0	122	52.1%	4
2019-M06-S02	0.97	0.51	1.49	101	53	154	25.6%	4
2019-M07-S01	1.55	0.71	2.46	161	74	255	26.8%	4
2019-M07-S02	2.34	0.22	6.06	243	24	628	78.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	1.25	0.61	2.08	130	64	216	31.0%	4
2019-M09-S01	51.40	22.80	84.28	5325	2362	8730	31.2%	4
2019-M10-S01	7.04	4.18	10.02	730	434	1039	17.5%	2
2019-M11-S01	2.65	1.04	4.91	275	108	509	31.3%	2
2019-M12-S01	0.96	0.26	1.87	100	27	194	42.0%	2
2020-M01-S01	0.89	0.40	1.45	93	42	150	30.4%	2
2020-M02-S01	1.30	0.36	2.09	135	37	217	29.6%	2
2020-M03-S01	2.64	1.56	3.81	274	162	395	21.9%	4
2020-M04-S01	15.93	5.99	36.53	1650	621	3784	52.1%	4

Table 11-0-33: Herring gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.05	2	0	5	83.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.00	0.13	5	0	14	81.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.13	5	0	14	83.7%	4
2020-M04-S01	0.04	0.00	0.16	5	0	17	102.0%	4

Table 11-0-34: Herring gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.05	2	0	5	86.5%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M03-S01	0.05	0.00	0.13	5	0	14	85.8%	4
2020-M04-S01	0.04	0.00	0.13	5	0	14	98.0%	4

Table 11-0-35: Herring gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.00	0.13	5	0	14	83.2%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-36: Kestrel density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.12	5	0	13	90.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-37: Kestrel density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.13	5	0	14	88.7%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-38: Kestrel density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-39: Kittiwake density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.97	0.93	3.11	205	97	322	29.8%	4
2018-M06-S01	0.76	0.30	1.33	80	32	138	35.0%	4
2018-M07-S01	0.22	0.00	0.46	23	0	48	52.0%	4
2018-M08-S01	2.29	1.18	3.94	238	123	408	32.9%	4
2018-M09-S01	0.30	0.04	0.55	31	5	58	44.3%	4
2018-M10-S01	0.43	0.09	0.92	45	9	95	50.9%	2
2018-M11-S01	0.28	0.00	0.67	29	0	69	69.0%	2
2018-M12-S01	0.35	0.09	0.67	36	9	69	41.7%	2
2019-M01-S01	0.18	0.00	0.41	19	0	43	58.4%	2
2019-M02-S01	0.39	0.09	0.75	40	9	78	60.0%	2
2019-M03-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M04-S01	2.02	0.93	3.14	210	97	325	27.8%	4
2019-M04-S02	1.52	0.62	2.53	158	65	262	31.8%	4
2019-M05-S01	0.90	0.23	1.73	94	24	180	44.5%	4
2019-M05-S02	0.69	0.21	1.29	72	23	134	40.7%	4
2019-M06-S01	0.44	0.00	1.19	46	0	124	80.8%	4
2019-M06-S02	0.17	0.00	0.49	18	0	51	77.5%	4
2019-M07-S01	0.25	0.12	0.42	27	13	43	29.1%	4
2019-M07-S02	0.41	0.04	0.88	43	5	92	53.8%	4
2019-M08-S01	0.04	0.00	0.13	5	0	14	87.3%	4
2019-M08-S02	1.73	0.08	4.77	180	9	495	77.3%	4
2019-M09-S01	9.53	2.32	17.97	987	240	1862	43.2%	4
2019-M10-S01	0.30	0.00	0.66	31	0	68	64.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.36	0.09	0.71	37	9	74	46.8%	2
2020-M01-S01	0.36	0.09	0.68	37	9	71	43.8%	2
2020-M02-S01	0.45	0.00	0.99	47	0	103	56.7%	2
2020-M03-S01	0.23	0.04	0.53	24	5	55	52.9%	4
2020-M04-S01	6.79	3.30	12.05	704	343	1248	34.3%	4

Table 11-0-40: Kittiwake density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.87	0.36	1.73	91	38	179	42.5%	4
2018-M06-S01	0.09	0.00	0.26	10	0	27	98.5%	4
2018-M07-S01	0.13	0.00	0.31	14	0	33	65.4%	4
2018-M08-S01	0.97	0.68	1.25	101	71	130	14.9%	4
2018-M09-S01	0.26	0.04	0.50	27	5	52	46.4%	4
2018-M10-S01	0.44	0.09	0.88	46	9	91	50.3%	2
2018-M11-S01	0.09	0.00	0.27	10	0	28	89.0%	2
2018-M12-S01	0.18	0.00	0.37	19	0	38	53.6%	2
2019-M01-S01	0.15	0.00	0.44	16	0	46	91.1%	2
2019-M02-S01	0.27	0.09	0.48	28	9	50	39.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	1.45	0.59	2.40	150	62	249	33.3%	4
2019-M04-S02	0.97	0.35	1.68	101	37	175	35.8%	4
2019-M05-S01	0.05	0.00	0.17	6	0	18	100.0%	4
2019-M05-S02	0.41	0.09	0.86	43	9	89	50.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	90.0%	4
2019-M07-S01	0.25	0.12	0.40	27	13	42	28.7%	4
2019-M07-S02	0.04	0.00	0.13	5	0	14	92.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S02	0.04	0.00	0.13	5	0	14	90.9%	4
2019-M09-S01	1.37	0.52	2.67	143	54	277	41.2%	4
2019-M10-S01	0.29	0.00	0.65	30	0	67	66.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.27	0.09	0.50	28	9	52	42.5%	2
2020-M01-S01	0.37	0.09	0.69	38	9	72	43.0%	2
2020-M02-S01	0.09	0.00	0.27	9	0	28	87.8%	2
2020-M03-S01	0.18	0.04	0.36	19	5	38	48.9%	4
2020-M04-S01	2.50	1.90	3.17	260	197	329	13.2%	4

Table 11-0-41: Kittiwake density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.12	0.46	1.97	116	48	205	35.8%	4
2018-M06-S01	0.66	0.20	1.22	69	22	127	38.9%	4
2018-M07-S01	0.09	0.00	0.21	10	0	23	65.3%	4
2018-M08-S01	1.36	0.31	2.84	141	33	294	50.3%	4
2018-M09-S01	0.04	0.00	0.16	5	0	17	95.8%	4
2018-M10-S01	0.18	0.00	0.43	19	0	45	78.9%	2
2018-M11-S01	0.19	0.00	0.54	20	0	56	65.0%	2
2018-M12-S01	0.09	0.00	0.26	9	0	27	86.5%	2
2019-M01-S01	0.11	0.00	0.29	11	0	30	172.7%	2
2019-M02-S01	1.12	0.46	1.97	116	48	205	35.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.63	0.09	1.23	65	10	128	45.6%	4
2019-M04-S02	0.51	0.21	0.83	53	22	86	30.7%	4
2019-M05-S01	0.87	0.23	1.65	91	24	171	43.4%	4
2019-M05-S02	0.28	0.08	0.55	29	8	57	48.2%	4
2019-M06-S01	0.47	0.00	1.24	49	0	128	77.0%	4
2019-M06-S02	0.13	0.00	0.40	14	0	42	96.0%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.36	0.04	0.84	38	5	87	57.4%	4
2019-M08-S01	0.04	0.00	0.13	5	0	14	87.5%	4
2019-M08-S02	1.72	0.04	4.75	178	5	492	78.1%	4
2019-M09-S01	8.06	0.72	17.19	836	75	1781	52.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.09	0.00	0.27	9	0	28	89.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.36	0.00	0.93	37	0	96	70.6%	2
2020-M03-S01	0.04	0.00	0.13	5	0	14	92.9%	4
2020-M04-S01	4.27	1.02	9.42	443	106	976	51.6%	4

Table13-0-42: Knot density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	1.75	0.00	5.37	182	0	557	96.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-43: Knot density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	1.73	0.00	5.32	180	0	552	93.1%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-44: Knot density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-45: Lapwing density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-46: Lesser black-backed gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.46	0.00	1.21	48	0	126	74.8%	4
2018-M07-S01	0.23	0.00	0.52	24	0	54	60.8%	4
2018-M08-S01	0.02	0.00	0.04	2	0	5	86.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.05	0.00	0.13	5	0	14	84.2%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	87.7%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.23	0.00	0.58	24	0	61	71.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.00	0.13	5	0	14	83.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.09	0.00	0.26	9	0	27	86.1%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-47: Lesser black-backed gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.22	0.00	0.58	23	0	60	68.1%	4
2018-M07-S01	0.09	0.00	0.20	10	0	22	58.9%	4
2018-M08-S01	0.02	0.00	0.04	2	0	5	83.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.04	0.00	0.13	5	0	13	85.0%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.04	0.00	0.13	5	0	14	85.4%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.23	0.00	0.58	24	0	60	72.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.00	0.13	5	0	14	85.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.09	0.00	0.26	10	0	27	87.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-48: Lesser black-backed gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.18	0.00	0.52	19	0	54	94.3%	4
2018-M07-S01	0.14	0.00	0.31	15	0	33	59.2%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	89.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-49: Little gull density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	97.0%	4
2019-M10-S01	2.70	1.25	4.72	280	130	489	31.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-50: Little gull density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	99.6%	4
2019-M10-S01	2.29	0.92	4.28	237	95	444	37.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-51: Little gull density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.38	0.09	0.72	39	9	75	35.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-52: Little tern density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-53: Long-tailed skua density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-54: Manx shearwater density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.27	0.00	0.78	29	0	81	84.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-55: Manx shearwater density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-56: Manx shearwater density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.28	0.00	0.79	30	0	82	85.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-57: Oystercatcher density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.09	0.00	0.26	10	0	27	94.3%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-58: Oystercatcher density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.09	0.00	0.26	10	0	27	95.3%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-59: Oystercatcher density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-60: Pomarine skua density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-61: Puffin density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.06	2	0	7	150.0%	4
2018-M06-S01	0.06	0.00	0.19	6	0	20	116.7%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.05	3	1	6	100.0%	4
2018-M09-S01	0.00	0.00	0.01	1	0	1	100.0%	4
2018-M10-S01	0.12	0.00	0.32	13	0	33	359.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M02-S01	0.12	0.00	0.33	13	0	34	217.6%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.07	2	0	7	150.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.13	0.00	0.33	14	0	35	85.7%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.24	0.03	0.55	26	5	57	69.2%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.06	0.00	0.15	6	0	16	116.7%	4
2020-M04-S01	0.00	0.00	0.01	1	0	2	100.0%	4

Table 11-0-62: Puffin density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-63: Puffin density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.05	2	0	6	91.8%	4
2018-M06-S01	0.05	0.00	0.16	5	0	17	93.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.04	3	1	5	48.8%	4
2018-M09-S01	0.00	0.00	0.01	1	0	1	85.1%	4
2018-M10-S01	0.11	0.00	0.28	11	0	29	300.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.11	0.00	0.29	11	0	30	181.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.06	2	0	6	94.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.11	0.00	0.28	12	0	30	69.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.21	0.03	0.47	22	4	49	58.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.13	5	0	14	86.9%	4
2020-M04-S01	0.00	0.00	0.01	1	0	2	63.6%	4

Table 11-0-64: Razorbill density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.10	4	0	11	100.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	2.55	0.84	4.57	265	88	474	46.8%	4
2018-M09-S01	0.15	0.00	0.42	16	0	43	100.0%	4
2018-M10-S01	3.48	1.47	5.33	360	153	553	37.9%	2
2018-M11-S01	5.16	2.57	8.35	535	266	866	31.2%	2
2018-M12-S01	1.36	0.22	2.78	141	22	289	58.2%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	2.45	0.72	5.03	254	75	521	47.3%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.56	0.26	0.84	59	27	88	30.5%	4
2019-M04-S02	0.58	0.11	1.12	61	11	116	47.5%	4
2019-M05-S01	0.41	0.07	0.83	44	7	87	34.1%	4
2019-M05-S02	0.12	0.00	0.35	13	0	38	100.0%	4
2019-M06-S01	0.23	0.00	0.71	26	0	76	107.7%	4
2019-M06-S02	0.22	0.00	0.50	23	0	53	73.9%	4
2019-M07-S01	0.18	0.01	0.50	20	1	53	100.0%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.00	0.33	12	0	34	116.7%	4
2019-M09-S01	9.70	3.37	18.20	1006	350	1886	46.3%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	7.40	3.18	13.29	767	329	1378	33.4%	2
2019-M11-S01	2.65	1.00	4.99	275	103	518	40.9%	2
2019-M12-S01	2.12	0.50	4.53	220	52	470	56.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.84	0.00	2.39	87	0	248	79.7%	2
2020-M03-S01	0.12	0.00	0.33	13	1	34	84.6%	4
2020-M04-S01	7.89	1.90	16.25	818	197	1685	53.3%	4

Table 11-0-65: Razorbill density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.09	0.00	0.26	10	0	27	86.9%	4
2019-M05-S01	0.10	0.00	0.29	11	0	31	86.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.03	2	0	4	86.2%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.55	0.10	1.10	57	10	114	47.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.51	0.14	1.01	53	14	106	45.3%	4

Table 11-0-66: Razorbill density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.08	3	0	9	83.9%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	2.09	0.69	3.74	217	72	388	39.9%	4
2018-M09-S01	0.12	0.00	0.34	13	0	35	82.7%	4
2018-M10-S01	2.96	1.25	4.54	307	130	471	31.6%	2
2018-M11-S01	4.40	2.19	7.12	456	227	738	25.9%	2
2018-M12-S01	1.16	0.18	2.37	120	19	246	48.3%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	2.08	0.62	4.28	216	64	444	39.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.46	0.21	0.69	48	22	72	27.3%	4
2019-M04-S02	0.40	0.09	0.70	42	9	73	39.7%	4
2019-M05-S01	0.25	0.06	0.44	27	6	46	37.7%	4
2019-M05-S02	0.10	0.00	0.29	11	0	31	84.6%	4
2019-M06-S01	0.18	0.00	0.56	20	0	59	98.0%	4
2019-M06-S02	0.18	0.00	0.41	19	0	43	61.8%	4
2019-M07-S01	0.15	0.01	0.41	16	1	43	87.4%	4
2019-M07-S02	0.05	0.00	0.17	5	0	18	98.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.09	0.00	0.27	10	0	28	96.7%	4
2019-M09-S01	7.94	2.76	14.89	823	286	1543	40.5%	4
2019-M10-S01	5.83	2.62	10.38	605	272	1077	29.6%	2
2019-M11-S01	2.26	0.85	4.25	234	88	441	33.8%	2
2019-M12-S01	1.80	0.42	3.86	187	44	400	48.1%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.71	0.00	2.03	74	0	211	68.9%	2
2020-M03-S01	0.10	0.00	0.27	11	1	28	74.1%	4
2020-M04-S01	6.04	1.44	12.47	626	150	1292	48.1%	4

Table 11-0-67: Red-throated diver density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.26	10	0	27	130.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.09	0.00	0.27	9	0	28	96.0%	2
2019-M02-S01	0.09	0.00	0.26	9	0	27	87.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.18	0.08	0.31	19	8	32	35.2%	4
2019-M04-S02	0.04	0.00	0.13	5	0	14	89.1%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.22	0.00	0.52	24	0	54	62.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.20	0.00	0.57	21	0	59	104.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.19	0.00	0.58	20	0	60	65.0%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.05	0.00	0.13	5	0	14	86.0%	4

Table 11-0-68: Red-throated diver density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.09	0.00	0.26	10	0	28	91.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-69: Red-throated diver density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.26	10	0	27	120.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.09	0.00	0.27	9	0	28	95.8%	2
2019-M02-S01	0.09	0.00	0.26	9	0	27	87.6%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.18	0.08	0.30	19	9	31	34.0%	4
2019-M04-S02	0.04	0.00	0.13	5	0	14	89.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.13	0.00	0.33	14	0	34	63.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.19	0.00	0.57	20	0	59	110.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.09	0.00	0.27	9	0	28	97.5%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.05	0.00	0.13	5	0	14	80.5%	4

*Table 11-0-70: Sandwich tern density and abundance estimates at DEP by survey – all birds (design-based density and abundance estimates). Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.02	1.05	2.99	**210**	**110**	**311**	25.1%	4
2018-M06-S01	0.27	0.00	0.56	28	0	58	51.6%	4
2018-M07-S01	1.30	0.65	2.03	135	68	211	27.4%	4
2018-M08-S01	0.24	0.00	0.58	25	0	61	66.5%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.76	0.16	1.42	79	18	147	42.3%	4
2019-M04-S02	1.86	0.30	4.54	**193**	**31**	**471**	64.1%	4
2019-M05-S01	1.24	0.45	2.38	128	47	247	42.6%	4
2019-M05-S02	0.59	0.32	0.89	61	33	92	24.7%	4
2019-M06-S01	0.18	0.00	0.39	19	0	40	54.1%	4
2019-M06-S02	0.45	0.11	0.96	47	12	100	50.7%	4
2019-M07-S01	0.13	0.00	0.33	14	0	34	68.9%	4
2019-M07-S02	0.42	0.04	0.83	44	5	87	46.5%	4
2019-M08-S01	0.30	0.00	0.67	32	0	70	54.9%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.27	0.00	0.72	**28**	**0**	**75**	77.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

*Table 11-0-71: Sandwich tern density and abundance estimates at DEP by survey – all birds (model-based density and abundance estimates). Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.61	1.00	2.48	167	104	257	23.4%	4
2018-M06-S01	0.29	0.14	0.56	30	14	58	41.5%	4
2018-M07-S01	2.39	1.68	3.31	**247**	**174**	**343**	21.3%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	1.51	0.67	2.95	156	70	305	39.0%	4
2019-M04-S02	1.51	0.66	3.01	**157**	**69**	**311**	39.2%	4
2019-M05-S01	0.88	0.54	1.35	91	56	140	23.7%	4
2019-M05-S02	0.87	0.55	1.33	90	57	138	23.8%	4
2019-M06-S01	0.66	0.32	1.23	68	33	127	38.2%	4
2019-M06-S02	0.57	0.29	0.99	59	30	103	36.4%	4
2019-M07-S01	0.18	0.08	0.37	19	8	38	47.5%	4
2019-M07-S02	0.18	0.08	0.38	19	8	40	49.1%	4
2019-M08-S01	0.12	0.05	0.27	12	5	28	80.8%	4
2019-M08-S02	0.12	0.05	0.28	12	5	29	82.5%	4
2019-M09-S01	0.33	0.12	0.80	**34**	**12**	**83**	65.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-72: Sandwich tern density and abundance estimates at DEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.00	1.08	2.93	207	113	304	23.5%	4
2018-M06-S01	0.28	0.04	0.56	29	5	58	49.3%	4
2018-M07-S01	1.29	0.63	1.97	134	66	205	27.9%	4
2018-M08-S01	0.23	0.00	0.56	24	0	58	67.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.74	0.16	1.36	77	17	141	44.0%	4
2019-M04-S02	1.91	0.31	4.59	199	32	476	63.7%	4
2019-M05-S01	1.21	0.33	2.38	126	35	247	45.2%	4
2019-M05-S02	0.60	0.31	0.91	63	33	95	25.6%	4
2019-M06-S01	0.18	0.04	0.39	20	5	40	54.6%	4
2019-M06-S02	0.45	0.09	1.01	47	9	105	53.0%	4
2019-M07-S01	0.13	0.00	0.33	14	0	35	67.4%	4
2019-M07-S02	0.42	0.04	0.82	44	5	86	46.9%	4
2019-M08-S01	0.31	0.04	0.64	33	5	67	51.6%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.27	0.00	0.70	28	0	73	74.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-73: Sandwich tern density and abundance estimates at DEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.15	6	0	16	85.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-74: Shag density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-75: Shelduck density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-76: Tufted duck density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-77: Woodpigeon density and abundance estimates at DEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.5.2 DEP + 2km Buffer

Table 11-0-78: Arctic skua density and abundance estimates at DEP + 2km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	16	92.0%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-79: Arctic skua density and abundance estimates at DEP + 2km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	5	0	15	93.3%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-80: Arctic skua density and abundance estimates at DEP + 2km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-81: Arctic tern density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	7	0	19	92.1%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.19	0.02	0.46	56	6	134	62.6%	4
2019-M05-S01	0.05	0.01	0.13	16	3	37	65.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.00	1	0	1	95.5%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-82: Arctic tern density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	7	0	20	93.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.13	0.00	0.34	38	1	98	73.5%	4
2019-M05-S01	0.06	0.01	0.13	17	3	37	62.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.00	0.00	0.00	1	0	1	91.6%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-83: Arctic tern density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.05	0.01	0.10	15	3	29	46.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-84: Black-headed gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.05	0.00	0.15	16	0	45	84.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	5	0	16	98.5%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.08	0.02	0.17	24	5	49	49.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.06	0.00	0.12	17	2	36	52.8%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	95.2%	4
2019-M10-S01	0.15	0.03	0.30	44	10	87	111.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.04	0.00	0.10	11	0	30	84.8%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-85: Black-headed gull density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	6	0	15	96.3%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.08	0.02	0.16	25	5	47	47.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.05	0.00	0.12	16	0	35	57.4%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	92.0%	4
2019-M10-S01	0.14	0.03	0.28	41	10	82	53.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.04	0.00	0.10	11	0	30	79.2%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-86: Black-headed gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.05	0.00	0.15	15	0	44	88.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.01	2	0	4	94.2%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-87: Common gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	15	87.1%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.28	32	0	81	106.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.11	11	0	32	190.9%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	90.7%	4
2019-M04-S02	0.04	0.00	0.10	13	1	29	59.6%	4
2019-M05-S01	0.02	0.00	0.06	6	0	17	94.6%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.02	0.00	0.05	6	0	15	89.3%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	89.1%	4
2019-M09-S01	0.02	0.00	0.05	6	0	16	94.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.04	0.00	0.13	12	0	38	200.0%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.05	6	0	16	96.8%	4
2020-M04-S01	0.04	0.00	0.11	11	0	31	91.9%	4

Table 11-0-88: Common gull density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	5	0	15	89.5%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.28	32	0	81	93.8%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.11	11	0	31	96.2%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	15	88.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	5	0	15	89.6%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	5	0	16	100.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.05	6	0	16	93.4%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-89: Common gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	97.5%	4
2019-M04-S02	0.03	0.00	0.06	8	1	19	67.9%	4
2019-M05-S01	0.02	0.00	0.06	6	0	17	93.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	92.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.06	0.00	0.17	18	0	50	133.3%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.00	0.11	11	0	31	92.0%	4

Table 11-0-90: Common scoter density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-91: Common tern density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.00	0.13	15	0	38	72.6%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	16	90.5%	4
2018-M08-S01	0.02	0.00	0.05	6	0	15	83.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.24	0.00	0.72	71	0	208	87.2%	4
2019-M04-S02	0.77	0.10	1.89	224	30	545	66.5%	4
2019-M05-S01	0.63	0.30	0.99	182	86	284	28.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.11	0.03	0.20	31	10	57	40.6%	4
2019-M06-S02	0.07	0.00	0.15	21	0	44	53.4%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.03	0.00	0.10	11	0	31	92.2%	4
2019-M08-S02	0.21	0.01	0.59	62	4	169	73.3%	4
2019-M09-S01	0.48	0.03	1.08	139	9	311	54.4%	4
2019-M10-S01	0.07	0.00	0.21	20	0	61	92.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-92: Common tern density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.00	0.13	15	0	39	74.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	16	90.9%	4
2018-M08-S01	0.02	0.00	0.05	6	0	15	86.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.13	0.00	0.37	37	0	108	88.8%	4
2019-M04-S02	0.45	0.03	1.15	129	10	331	71.4%	4
2019-M05-S01	0.46	0.22	0.73	133	65	212	27.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.11	0.03	0.19	32	10	56	39.9%	4
2019-M06-S02	0.07	0.02	0.16	22	5	46	52.4%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.04	0.00	0.10	11	0	31	94.8%	4
2019-M08-S02	0.22	0.01	0.55	63	2	159	72.8%	4
2019-M09-S01	0.48	0.03	1.08	139	10	310	56.0%	4
2019-M10-S01	0.07	0.00	0.21	20	0	60	87.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-93: Common tern density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.13	0.00	0.36	37	0	103	84.9%	4
2019-M04-S02	0.29	0.03	0.75	84	9	215	68.8%	4
2019-M05-S01	0.17	0.00	0.45	50	0	129	71.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-94: Cormorant density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.10	11	0	30	85.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.05	6	0	16	91.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-95: Cormorant density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.10	11	0	31	85.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.05	6	0	15	92.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-96: Cormorant density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-97: Fulmar density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.05	6	0	16	93.9%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.08	11	0	24	62.0%	4
2018-M09-S01	0.02	0.00	0.05	5	0	16	94.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.04	0.00	0.13	11	0	37	96.5%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	96.6%	4
2019-M05-S01	0.06	0.02	0.11	17	6	31	40.6%	4
2019-M05-S02	0.02	0.00	0.05	5	0	15	90.6%	4
2019-M06-S01	0.03	0.00	0.09	10	0	25	68.0%	4
2019-M06-S02	0.02	0.00	0.05	5	0	16	98.6%	4
2019-M07-S01	0.05	0.01	0.10	15	4	29	47.5%	4
2019-M07-S02	0.02	0.00	0.05	6	0	15	92.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	6	0	15	90.2%	4
2019-M09-S01	0.25	0.11	0.43	74	32	124	33.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-98: Fulmar density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.06	6	0	18	97.7%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.08	11	0	25	61.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	98.2%	4
2019-M05-S01	0.04	0.00	0.07	11	0	22	51.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.06	6	0	19	96.9%	4
2019-M06-S02	0.02	0.00	0.05	6	0	15	88.6%	4
2019-M07-S01	0.02	0.00	0.05	6	0	16	99.2%	4
2019-M07-S02	0.02	0.00	0.05	6	0	16	92.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	6	0	15	86.7%	4
2019-M09-S01	0.11	0.02	0.21	32	6	62	44.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-99: Fulmar density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.05	5	0	15	92.4%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.04	0.00	0.13	12	0	38	97.6%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.02	0.00	0.06	6	0	17	94.0%	4
2019-M05-S02	0.02	0.00	0.05	6	0	15	86.3%	4
2019-M06-S01	0.02	0.00	0.05	6	0	16	95.1%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	10	0	22	58.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.15	0.06	0.25	43	17	72	34.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

*Table 11-0-100: Gannet density and abundance estimates at DEP + 2 km buffer by survey – all birds. Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.05	6	0	16	92.9%	4
2018-M06-S01	0.07	0.00	0.15	20	0	44	54.8%	4
2018-M07-S01	0.25	0.02	0.65	73	5	189	71.9%	4
2018-M08-S01	0.19	0.02	0.54	56	5	155	75.7%	4
2018-M09-S01	0.39	0.17	0.67	112	48	195	34.1%	4
2018-M10-S01	0.71	0.14	1.53	205	41	442	50.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	1.21	0.80	1.70	349	230	490	18.9%	2
2018-M12-S01	0.21	0.07	0.39	61	19	113	42.4%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.11	0.00	0.26	32	0	76	66.2%	2
2019-M03-S01	0.07	0.00	0.20	21	0	59	83.9%	4
2019-M04-S01	0.23	0.04	0.43	66	11	125	43.1%	4
2019-M04-S02	0.18	0.07	0.33	52	19	94	38.5%	4
2019-M05-S01	0.06	0.00	0.12	17	0	36	53.3%	4
2019-M05-S02	0.05	0.00	0.11	16	0	32	49.9%	4
2019-M06-S01	0.11	0.02	0.25	32	5	72	57.8%	4
2019-M06-S02	0.05	0.00	0.14	16	0	41	69.6%	4
2019-M07-S01	0.07	0.00	0.17	21	0	49	60.5%	4
2019-M07-S02	0.07	0.02	0.13	21	5	39	41.8%	4
2019-M08-S01	0.21	0.09	0.40	62	25	117	40.1%	4
2019-M08-S02	0.30	0.05	0.61	87	16	175	48.7%	4
2019-M09-S01	1.84	0.91	2.89	531	262	831	27.4%	4
2019-M10-S01	0.60	0.21	1.11	173	60	320	38.5%	2
2019-M11-S01	1.17	0.49	2.14	337	141	618	36.7%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.11	0.00	0.32	32	0	92	95.7%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	1.05	0.34	1.92	303	98	553	40.2%	4

Table 11-0-101: Gannet density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.05	6	0	16	97.3%	4
2018-M07-S01	0.02	0.00	0.05	5	0	16	94.4%	4
2018-M08-S01	0.02	0.00	0.05	5	0	15	97.3%	4
2018-M09-S01	0.22	0.05	0.49	63	15	142	53.1%	4
2018-M10-S01	0.18	0.03	0.41	52	10	119	54.6%	2
2018-M11-S01	0.75	0.52	1.02	216	151	293	17.0%	2
2018-M12-S01	0.14	0.03	0.28	41	10	82	49.6%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.07	0.00	0.21	20	0	61	92.1%	2
2019-M03-S01	0.07	0.00	0.21	22	0	61	85.5%	4
2019-M04-S01	0.16	0.02	0.33	46	6	97	51.4%	4
2019-M04-S02	0.13	0.05	0.22	37	15	64	34.2%	4
2019-M05-S01	0.02	0.00	0.06	6	0	17	97.1%	4
2019-M05-S02	0.03	0.00	0.08	10	0	25	65.0%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.07	0.00	0.16	21	0	46	53.9%	4
2019-M06-S02	0.02	0.00	0.05	6	0	16	95.3%	4
2019-M07-S01	0.04	0.00	0.08	11	0	24	59.1%	4
2019-M07-S02	0.02	0.00	0.05	5	0	15	97.8%	4
2019-M08-S01	0.11	0.00	0.33	32	0	96	78.9%	4
2019-M08-S02	0.11	0.00	0.29	32	0	84	67.0%	4
2019-M09-S01	0.19	0.10	0.31	56	29	89	28.8%	4
2019-M10-S01	0.34	0.03	0.84	98	10	241	62.3%	2
2019-M11-S01	0.36	0.14	0.62	104	40	179	35.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.11	12	0	31	92.4%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.51	0.27	0.79	147	77	229	26.6%	4

Table 11-0-102: Gannet density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.05	6	0	16	88.4%	4
2018-M06-S01	0.05	0.00	0.14	16	0	40	69.3%	4
2018-M07-S01	0.21	0.00	0.67	62	0	193	82.4%	4
2018-M08-S01	0.16	0.02	0.41	47	5	119	72.2%	4
2018-M09-S01	0.16	0.05	0.32	46	14	94	46.9%	4
2018-M10-S01	0.54	0.07	1.31	156	20	378	63.5%	2
2018-M11-S01	0.46	0.11	0.90	133	31	260	44.1%	2
2018-M12-S01	0.07	0.00	0.21	20	0	61	99.5%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.11	12	0	31	96.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.05	0.00	0.12	15	0	34	62.1%	4
2019-M04-S02	0.05	0.00	0.14	16	0	40	66.7%	4
2019-M05-S01	0.04	0.00	0.09	12	0	27	63.6%	4
2019-M05-S02	0.02	0.00	0.05	6	0	16	101.6%	4
2019-M06-S01	0.04	0.00	0.11	11	0	31	95.2%	4
2019-M06-S02	0.04	0.00	0.10	11	0	31	96.0%	4
2019-M07-S01	0.03	0.00	0.08	10	0	25	62.2%	4
2019-M07-S02	0.05	0.00	0.12	16	0	34	51.1%	4
2019-M08-S01	0.10	0.05	0.16	31	15	48	27.6%	4
2019-M08-S02	0.18	0.03	0.42	51	10	121	56.8%	4
2019-M09-S01	1.64	0.75	2.77	473	216	799	32.0%	4
2019-M10-S01	0.25	0.04	0.49	72	11	142	46.1%	2
2019-M11-S01	0.82	0.27	1.64	236	77	474	46.1%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.07	0.00	0.21	20	0	61	98.3%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.54	0.07	1.12	156	20	324	53.3%	4

Table 11-0-103: Golden plover density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-104: Great black-backed gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.09	11	0	25	62.6%	4
2018-M06-S01	0.02	0.00	0.05	5	0	16	100.5%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.07	8	0	20	85.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.18	0.00	0.48	51	0	139	80.4%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.08	0.00	0.21	24	0	61	70.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.11	12	0	31	91.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	86.4%	4
2019-M05-S01	0.00	0.00	0.01	1	0	3	97.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.06	6	0	19	96.5%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.22	0.02	0.51	65	5	148	62.5%	4
2019-M10-S01	0.07	0.00	0.17	20	0	49	62.2%	2
2019-M11-S01	0.07	0.00	0.17	20	0	50	63.6%	2
2019-M12-S01	0.05	0.00	0.13	13	0	37	107.7%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0.08	0.00	0.20	23	0	57	73.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.00	0.08	11	0	25	63.3%	4

Table 11-0-105: Great black-backed gull density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.09	11	0	25	62.2%	4
2018-M06-S01	0.02	0.00	0.05	6	0	16	95.4%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.07	7	0	20	87.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	12	0	31	90.2%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.07	0.00	0.17	20	0	50	63.5%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.03	0.00	0.11	10	0	31	101.1%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	15	85.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.04	0.00	0.11	12	0	31	91.5%	2
2019-M11-S01	0.04	0.00	0.13	11	0	38	101.6%	2
2019-M12-S01	0.04	0.00	0.13	11	0	38	91.9%	2
2020-M01-S01	0.07	0.00	0.17	21	0	50	65.2%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-106: Great black-backed gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.15	0.00	0.43	42	0	124	95.2%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.00	0.00	0.01	1	0	3	91.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	5	0	16	96.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.23	0.00	0.53	68	0	154	60.4%	4
2019-M10-S01	0.04	0.00	0.11	12	0	31	92.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.00	0.09	11	0	25	64.1%	4

Table 11-0-107: Great crested grebe density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.04	0.00	0.07	11	0	21	56.6%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-108: Great crested grebe density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-109: Great crested grebe density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.04	0.00	0.08	11	0	24	59.3%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-110: Great skua density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.10	12	0	30	91.7%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-111: Great skua density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	12	0	31	94.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-112: Great skua density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

*Table 11-0-113: Guillemot density and abundance estimates at DEP + 2 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	3.28	2.64	4.00	942	762	1155	10.4%	4
2018-M06-S01	1.15	0.62	1.72	329	178	498	27.1%	4
2018-M07-S01	2.19	1.07	3.50	632	307	1008	30.4%	4
2018-M08-S01	20.93	12.31	29.23	6025	3546	8413	22.5%	4
2018-M09-S01	5.09	4.21	6.08	1466	1211	1753	10.3%	4
2018-M10-S01	**38.68**	**8.06**	**83.18**	**11148**	**2322**	**23972**	51.2%	2
2018-M11-S01	6.32	4.47	8.51	1821	1289	2454	13.8%	2
2018-M12-S01	4.38	2.36	6.58	1263	679	1896	23.2%	2
2019-M01-S01	1.57	0.94	2.36	452	272	679	18.9%	2
2019-M02-S01	1.83	1.08	2.61	526	312	751	21.0%	2
2019-M03-S01	0.32	0.24	0.37	91	68	108	12.1%	4
2019-M04-S01	2.36	1.78	2.96	679	513	855	13.6%	4
2019-M04-S02	4.51	2.96	6.28	1300	853	1811	20.3%	4
2019-M05-S01	**4.72**	**3.17**	**6.34**	**1357**	**912**	**1824**	18.3%	4
2019-M05-S02	0.49	0.34	0.66	142	97	190	19.0%	4
2019-M06-S01	0.65	0.16	1.24	190	47	358	41.6%	4
2019-M06-S02	1.14	0.70	1.72	330	200	498	23.9%	4
2019-M07-S01	2.40	1.30	3.79	692	377	1092	28.0%	4
2019-M07-S02	1.57	0.33	3.58	452	95	1031	63.9%	4
2019-M08-S01	0.37	0.08	0.74	107	24	212	51.4%	4
2019-M08-S02	1.83	0.93	3.05	527	269	880	31.9%	4
2019-M09-S01	**64.71**	**42.07**	**87.03**	**18626**	**12107**	**25049**	19.2%	4
2019-M10-S01	11.00	7.48	15.06	3169	2154	4341	15.2%	2
2019-M11-S01	3.97	2.45	5.63	1145	705	1622	17.7%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	1.74	0.81	2.82	501	233	812	29.5%	2
2020-M01-S01	2.00	1.13	3.08	578	325	888	19.1%	2
2020-M02-S01	1.36	0.65	2.26	391	187	650	30.6%	2
2020-M03-S01	4.32	3.30	5.47	1247	949	1577	13.5%	4
2020-M04-S01	**21.96**	**13.34**	**34.08**	**6321**	**3839**	**9810**	22.6%	4

Table 11-0-114: Guillemot density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.09	0.02	0.16	26	6	48	40.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	5	0	15	97.7%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.05	6	0	16	93.2%	4
2018-M10-S01	0.31	0.00	0.74	88	0	212	52.3%	2
2018-M11-S01	0.20	0.00	0.57	59	0	163	54.2%	2
2018-M12-S01	0.10	0.00	0.21	30	0	60	51.3%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	91.2%	4
2019-M05-S01	0.07	0.01	0.15	21	4	44	52.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.03	0.00	0.07	10	0	21	58.5%	4
2019-M06-S02	0.02	0.00	0.05	6	0	15	90.4%	4
2019-M07-S01	0.02	0.00	0.05	6	0	16	97.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.00	0.09	11	0	25	59.5%	4
2019-M10-S01	0.08	0.00	0.23	23	0	65	165.2%	2
2019-M11-S01	0.04	0.00	0.11	11	0	31	95.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.07	0.00	0.18	21	0	51	69.8%	2
2020-M02-S01	0.07	0.00	0.17	20	0	50	63.1%	2
2020-M03-S01	0.07	0.02	0.14	21	5	40	47.0%	4
2020-M04-S01	2.33	1.32	3.49	671	379	1006	24.1%	4

Table 11-0-115: Guillemot density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.42	1.99	2.92	696	574	841	10.1%	4
2018-M06-S01	0.87	0.47	1.31	250	135	378	25.1%	4
2018-M07-S01	1.65	0.81	2.62	476	233	754	28.8%	4
2018-M08-S01	15.90	9.35	22.20	4576	2693	6390	20.9%	4
2018-M09-S01	3.85	3.20	4.58	1109	920	1319	9.7%	4
2018-M10-S01	31.01	6.51	66.63	8937	1876	19200	44.8%	2
2018-M11-S01	4.94	3.62	6.42	1424	1042	1851	12.5%	2
2018-M12-S01	3.46	1.91	5.15	996	549	1484	20.9%	2
2019-M01-S01	1.27	0.76	1.91	365	220	549	16.7%	2
2019-M02-S01	1.47	0.87	2.11	425	252	607	18.4%	2
2019-M03-S01	0.24	0.18	0.28	69	52	82	11.1%	4
2019-M04-S01	1.79	1.35	2.25	516	390	649	12.7%	4
2019-M04-S02	3.41	2.25	4.73	983	648	1363	18.8%	4
2019-M05-S01	3.53	2.40	4.70	1015	690	1352	16.9%	4
2019-M05-S02	0.37	0.26	0.50	108	74	144	17.4%	4
2019-M06-S01	0.47	0.12	0.89	137	36	256	40.8%	4
2019-M06-S02	0.85	0.53	1.27	246	152	367	22.6%	4
2019-M07-S01	1.81	0.99	2.84	521	286	817	26.0%	4
2019-M07-S02	1.19	0.25	2.72	343	72	783	58.9%	4
2019-M08-S01	0.28	0.06	0.56	81	18	161	48.0%	4
2019-M08-S02	1.39	0.71	2.32	400	204	668	29.8%	4
2019-M09-S01	49.12	31.95	66.03	14138	9195	19006	17.9%	4
2019-M10-S01	8.82	6.04	11.99	2542	1741	3455	13.4%	2
2019-M11-S01	3.18	1.98	4.46	916	570	1286	15.5%	2
2019-M12-S01	1.41	0.65	2.28	405	188	656	25.9%	2
2020-M01-S01	1.56	0.91	2.35	450	263	676	17.1%	2
2020-M02-S01	1.04	0.52	1.68	300	151	485	27.7%	2
2020-M03-S01	3.23	2.49	4.05	931	717	1167	12.5%	4
2020-M04-S01	14.91	9.13	23.23	4291	2628	6687	23.7%	4

Table 11-0-116: Herring gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	16	95.8%	4
2018-M08-S01	0.01	0.00	0.02	2	0	5	89.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	11	0	31	127.3%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.03	0.00	0.11	9	0	31	97.9%	2
2019-M03-S01	0.04	0.00	0.10	11	0	29	79.9%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	15	82.3%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	5	0	15	96.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	6	0	16	90.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.11	12	0	31	92.8%	2
2020-M03-S01	0.02	0.00	0.05	6	0	15	85.9%	4
2020-M04-S01	0.02	0.00	0.05	6	0	16	97.0%	4

Table 11-0-117: Herring gull density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	6	0	16	95.2%	4
2018-M08-S01	0.01	0.00	0.02	2	0	5	85.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	12	0	31	92.1%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.03	0.00	0.11	10	0	31	95.0%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	15	83.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	5	0	15	96.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.05	6	0	15	84.2%	4
2020-M04-S01	0.02	0.00	0.05	6	0	16	95.9%	4

Table 11-0-118: Herring gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.04	0.00	0.10	11	0	29	76.5%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	6	0	16	85.7%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.11	12	0	31	92.1%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-119: Kestrel density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	91.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-120: Kestrel density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	93.1%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-121: Kestrel density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-122: Kittiwake density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.63	0.71	2.67	470	204	770	31.0%	4
2018-M06-S01	1.22	0.65	1.94	351	187	558	26.9%	4
2018-M07-S01	0.32	0.14	0.54	93	41	156	34.0%	4
2018-M08-S01	2.36	0.84	4.23	681	241	1218	38.5%	4
2018-M09-S01	0.42	0.19	0.75	121	55	215	34.2%	4
2018-M10-S01	2.52	0.19	6.62	725	56	1909	75.9%	2
2018-M11-S01	0.13	0.00	0.33	37	0	96	70.3%	2
2018-M12-S01	0.20	0.07	0.40	59	19	115	39.0%	2
2019-M01-S01	0.21	0.07	0.36	61	20	105	35.8%	2
2019-M02-S01	0.36	0.07	0.82	105	20	237	57.1%	2
2019-M03-S01	0.07	0.00	0.14	21	0	39	47.3%	4
2019-M04-S01	1.45	0.95	1.96	418	275	566	18.7%	4
2019-M04-S02	2.07	1.22	3.07	596	350	884	22.6%	4
2019-M05-S01	0.76	0.36	1.19	219	103	343	29.1%	4
2019-M05-S02	0.81	0.35	1.36	234	102	393	32.2%	4
2019-M06-S01	0.31	0.07	0.69	89	20	200	59.8%	4
2019-M06-S02	0.26	0.02	0.65	76	5	188	63.2%	4
2019-M07-S01	0.60	0.34	0.97	172	97	278	28.3%	4
2019-M07-S02	0.25	0.10	0.42	72	30	120	33.1%	4
2019-M08-S01	0.04	0.00	0.09	11	0	25	64.2%	4
2019-M08-S02	0.93	0.16	2.10	267	46	605	59.4%	4
2019-M09-S01	7.59	3.37	11.94	2185	970	3437	30.0%	4
2019-M10-S01	0.19	0.03	0.37	54	10	108	94.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.21	0.04	0.39	60	11	113	38.3%	2
2020-M01-S01	0.29	0.07	0.59	83	20	169	45.8%	2
2020-M02-S01	0.59	0.20	1.08	171	58	310	27.5%	2
2020-M03-S01	0.19	0.07	0.35	56	21	100	35.8%	4
2020-M04-S01	6.26	4.72	8.07	1803	1359	2323	14.2%	4

Table 11-0-123: Kittiwake density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.69	0.28	1.15	198	80	330	33.3%	4
2018-M06-S01	0.25	0.07	0.45	72	20	130	40.5%	4
2018-M07-S01	0.07	0.02	0.14	21	5	41	48.4%	4
2018-M08-S01	0.60	0.34	0.83	172	97	239	21.1%	4
2018-M09-S01	0.40	0.17	0.71	117	49	206	34.9%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.82	0.07	1.96	237	20	564	59.5%	2
2018-M11-S01	0.04	0.00	0.11	12	0	31	95.1%	2
2018-M12-S01	0.14	0.03	0.24	41	10	69	35.6%	2
2019-M01-S01	0.17	0.07	0.31	50	19	88	35.5%	2
2019-M02-S01	0.21	0.03	0.51	62	10	146	60.7%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.95	0.62	1.37	273	178	394	20.7%	4
2019-M04-S02	1.01	0.57	1.42	291	164	410	23.1%	4
2019-M05-S01	0.11	0.03	0.21	33	10	62	42.9%	4
2019-M05-S02	0.24	0.12	0.40	71	34	117	30.0%	4
2019-M06-S01	0.02	0.00	0.05	6	0	16	95.5%	4
2019-M06-S02	0.11	0.00	0.26	31	0	76	65.5%	4
2019-M07-S01	0.39	0.22	0.56	112	63	161	22.7%	4
2019-M07-S02	0.05	0.00	0.11	16	0	31	52.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.12	0.05	0.21	36	15	61	33.4%	4
2019-M09-S01	1.87	0.92	2.90	539	266	836	27.9%	4
2019-M10-S01	0.15	0.03	0.29	42	10	83	52.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.14	0.03	0.25	41	10	71	37.8%	2
2020-M01-S01	0.21	0.07	0.38	61	20	110	38.3%	2
2020-M02-S01	0.14	0.03	0.31	40	10	90	51.8%	2
2020-M03-S01	0.14	0.05	0.24	41	15	70	34.2%	4
2020-M04-S01	2.57	2.04	3.11	739	587	896	10.7%	4

Table 11-0-124: Kittiwake density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.96	0.36	1.69	276	103	487	35.6%	4
2018-M06-S01	0.96	0.49	1.49	276	141	430	27.1%	4
2018-M07-S01	0.25	0.07	0.50	72	21	144	44.5%	4
2018-M08-S01	1.79	0.38	3.41	516	110	983	44.5%	4
2018-M09-S01	0.02	0.00	0.05	5	0	15	95.5%	4
2018-M10-S01	1.67	0.00	4.73	482	0	1363	84.4%	2
2018-M11-S01	0.11	0.00	0.28	32	0	80	59.4%	2
2018-M12-S01	0.08	0.00	0.22	22	0	62	63.6%	2
2019-M01-S01	0.03	0.00	0.10	9	0	30	92.0%	2
2019-M02-S01	0.15	0.00	0.32	42	0	92	69.0%	2
2019-M03-S01	0.07	0.00	0.14	21	0	40	47.2%	4
2019-M04-S01	0.49	0.18	0.83	142	53	239	33.9%	4
2019-M04-S02	1.05	0.56	1.68	302	160	484	28.2%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S01	0.64	0.20	1.10	185	59	317	35.7%	4
2019-M05-S02	0.56	0.18	1.02	162	53	295	39.8%	4
2019-M06-S01	0.28	0.07	0.66	81	20	191	60.4%	4
2019-M06-S02	0.16	0.00	0.39	47	0	113	60.2%	4
2019-M07-S01	0.21	0.03	0.45	61	10	131	55.1%	4
2019-M07-S02	0.20	0.06	0.35	58	19	101	37.8%	4
2019-M08-S01	0.04	0.00	0.09	11	0	26	64.6%	4
2019-M08-S02	0.79	0.09	1.96	227	25	565	67.8%	4
2019-M09-S01	5.73	1.93	10.38	1650	557	2989	37.4%	4
2019-M10-S01	0.05	0.00	0.13	13	0	38	346.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.08	0.00	0.22	22	0	62	63.6%	2
2020-M01-S01	0.06	0.00	0.17	18	0	50	133.3%	2
2020-M02-S01	0.45	0.07	0.93	131	20	268	35.9%	2
2020-M03-S01	0.05	0.00	0.13	16	0	38	65.2%	4
2020-M04-S01	3.69	2.36	5.60	1064	678	1613	22.9%	4

Table 11-0-125: Knot density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.68	0.00	2.06	197	0	594	95.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-126: Knot density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.72	0.00	2.07	207	0	596	90.7%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-127: Knot density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-128: Lapwing density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-129: Lesser black-backed gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.24	0.03	0.57	69	10	165	63.6%	4
2018-M07-S01	0.18	0.03	0.34	51	10	99	44.0%	4
2018-M08-S01	0.08	0.00	0.18	22	0	53	67.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	11	0	31	136.4%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.05	5	0	15	90.4%	4
2019-M04-S02	0.05	0.00	0.12	16	0	35	61.0%	4
2019-M05-S01	0.02	0.00	0.05	5	0	14	95.8%	4
2019-M05-S02	0.02	0.00	0.05	5	0	15	84.1%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.02	0.00	0.05	6	0	15	86.5%	4
2019-M07-S01	0.06	0.02	0.11	17	5	32	45.2%	4
2019-M07-S02	0.11	0.02	0.23	31	5	68	57.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	6	0	16	92.0%	4
2019-M09-S01	0.02	0.00	0.05	6	0	15	83.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0.05	0.00	0.13	13	0	37	107.7%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-130: Lesser black-backed gull density and abundance estimates at DEP + 2km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.14	0.03	0.28	41	10	82	47.4%	4
2018-M07-S01	0.07	0.02	0.15	21	5	43	50.1%	4
2018-M08-S01	0.04	0.00	0.09	13	0	27	56.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.05	6	0	15	81.1%	4
2019-M04-S02	0.05	0.00	0.12	16	0	36	61.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.02	0.00	0.05	6	0	15	85.1%	4
2019-M07-S01	0.02	0.00	0.05	5	0	15	87.0%	4
2019-M07-S02	0.11	0.02	0.24	32	5	69	57.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	6	0	16	87.8%	4
2019-M09-S01	0.02	0.00	0.05	6	0	15	86.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.04	0.00	0.11	11	0	31	90.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 31-0-131: Lesser black-backed gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.07	0.00	0.25	21	0	72	95.9%	4
2018-M07-S01	0.10	0.03	0.20	31	10	59	43.1%	4
2018-M08-S01	0.04	0.00	0.10	11	0	30	83.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	11	0	31	127.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.02	0.00	0.05	5	0	14	92.9%	4
2019-M05-S02	0.02	0.00	0.05	6	0	15	84.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.04	0.00	0.09	12	1	26	58.8%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	89.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-132: Little gull density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	2.74	0.30	6.64	791	86	1914	61.8%	2
2018-M11-S01	0.13	0.00	0.28	37	0	82	62.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.05	5	0	16	99.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	6	0	16	93.0%	4
2019-M10-S01	2.40	1.39	3.84	693	400	1108	25.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-133: Little gull density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	1.67	0.07	4.17	480	21	1202	62.7%	2
2018-M11-S01	0.11	0.00	0.21	32	0	61	52.3%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.05	6	0	16	95.9%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	6	0	16	92.7%	4
2019-M10-S01	1.83	0.89	3.14	527	257	905	29.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-134: Little gull density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	1.14	0.10	2.60	329	30	748	56.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.58	0.27	0.91	166	77	263	34.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-135: Little tern density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-136: Long-tailed skua density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	5	0	15	93.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-137: Long-tailed skua density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	5	0	15	90.7%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-138: Long-tailed skua density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-139: Manx shearwater density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.11	0.00	0.31	31	0	89	83.6%	4
2019-M10-S01	0.04	0.00	0.12	12	0	34	966.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-140: Manx shearwater density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.05	0.00	0.13	13	0	38	123.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-141: Manx shearwater density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.10	0.00	0.31	31	0	89	85.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-142: Oystercatcher density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.03	0.00	0.10	10	0	31	97.7%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-143: Oystercatcher density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.04	0.00	0.10	11	0	31	94.0%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-144: Oystercatcher density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-145: Pomarine skua density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-146: Puffin density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	8	100.0%	4
2018-M06-S01	0.06	0.00	0.12	16	0	36	68.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.06	0.02	0.10	16	6	30	50.0%	4
2018-M09-S01	0.01	0.00	0.01	2	1	5	50.0%	4
2018-M10-S01	0.09	0.00	0.25	25	0	71	693.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.21	25	0	62	147.1%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	2	100.0%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.01	0.00	0.05	6	0	15	100.0%	4
2019-M05-S02	0.01	0.00	0.02	2	0	6	150.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S01	0.10	0.01	0.22	31	5	66	64.5%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	7	0	21	114.3%	4
2019-M09-S01	0.22	0.08	0.40	65	23	114	47.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.01	0.19	26	5	54	65.4%	4
2020-M04-S01	0.05	0.00	0.13	14	1	38	100.0%	4

Table 11-0-147: Puffin density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-148: Puffin density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	7	89.4%	4
2018-M06-S01	0.05	0.00	0.10	14	0	31	56.6%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.05	0.02	0.09	14	5	26	42.1%	4
2018-M09-S01	0.01	0.00	0.01	2	1	4	38.7%	4
2018-M10-S01	0.08	0.00	0.22	22	0	62	563.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.08	0.00	0.19	22	0	54	118.2%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	2	51.1%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.01	0.00	0.04	5	0	13	96.9%	4
2019-M05-S02	0.01	0.00	0.02	2	0	5	95.1%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.09	0.01	0.19	27	4	57	51.0%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.06	6	0	18	93.1%	4
2019-M09-S01	0.19	0.07	0.34	56	20	98	37.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.08	0.01	0.16	22	4	46	51.4%	4
2020-M04-S01	0.04	0.00	0.11	12	1	33	80.6%	4

*Table 11-0-149: Razorbill density and abundance estimates at DEP + 2 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.07	0.00	0.17	23	0	50	69.6%	4
2018-M06-S01	0.06	0.00	0.15	20	1	42	55.0%	4
2018-M07-S01	0.04	0.00	0.12	12	0	38	116.7%	4
2018-M08-S01	1.93	0.97	2.91	556	280	837	30.8%	4
2018-M09-S01	0.22	0.10	0.37	64	29	105	37.5%	4
2018-M10-S01	**15.58**	**2.90**	**32.46**	**4491**	**835**	**9353**	56.6%	2
2018-M11-S01	**4.13**	**2.42**	**6.38**	**1190**	**696**	**1840**	26.6%	2
2018-M12-S01	1.63	0.99	2.40	468	284	690	24.8%	2
2019-M01-S01	0.22	0.00	0.59	65	0	169	102.3%	2
2019-M02-S01	**1.39**	**0.48**	**2.63**	**399**	**140**	**758**	41.1%	2
2019-M03-S01	0.66	0.12	1.28	189	37	369	52.9%	4
2019-M04-S01	0.40	0.22	0.59	117	66	170	28.2%	4
2019-M04-S02	**0.50**	**0.28**	**0.73**	**144**	**81**	**213**	25.7%	4
2019-M05-S01	0.42	0.20	0.70	122	55	202	28.7%	4
2019-M05-S02	0.30	0.04	0.64	88	12	186	53.4%	4
2019-M06-S01	0.22	0.02	0.51	67	7	148	61.2%	4
2019-M06-S02	0.13	0.00	0.27	38	0	79	60.5%	4
2019-M07-S01	0.27	0.06	0.54	79	17	156	53.2%	4
2019-M07-S02	0.02	0.00	0.06	7	0	20	100.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.18	0.00	0.44	53	1	126	73.6%	4
2019-M09-S01	**10.39**	**5.89**	**15.14**	**2991**	**1696**	**4360**	26.9%	4
2019-M10-S01	8.89	4.82	13.86	2563	1388	3994	22.5%	2
2019-M11-S01	1.35	0.69	2.19	390	200	630	31.2%	2
2019-M12-S01	**1.74**	**0.70**	**2.97**	**500**	**203**	**856**	34.9%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	**0.84**	**0.00**	**1.89**	**241**	**0**	**545**	56.9%	2
2020-M03-S01	0.23	0.10	0.42	70	29	120	38.6%	4
2020-M04-S01	**5.91**	**3.31**	**9.46**	**1702**	**955**	**2724**	29.1%	4

Table 11-0-150: Razorbill density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.11	11	0	31	91.2%	4
2019-M05-S01	0.04	0.00	0.11	13	0	33	70.4%	4
2019-M05-S02	0.03	0.00	0.10	11	0	31	95.1%	4
2019-M06-S01	0.00	0.00	0.01	2	0	4	85.9%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.44	0.03	0.91	128	9	263	37.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.52	0.21	0.84	149	62	242	31.4%	4

Table 11-0-151: Razorbill density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.06	0.00	0.14	19	0	41	57.6%	4
2018-M06-S01	0.05	0.00	0.12	16	1	34	49.4%	4
2018-M07-S01	0.03	0.00	0.10	10	0	31	95.9%	4
2018-M08-S01	1.58	0.79	2.38	455	229	685	26.4%	4
2018-M09-S01	0.18	0.08	0.30	52	24	86	31.8%	4
2018-M10-S01	13.27	2.47	27.65	3825	711	7967	46.8%	2
2018-M11-S01	3.52	2.06	5.44	1014	593	1567	22.1%	2
2018-M12-S01	1.38	0.84	2.04	399	242	588	20.6%	2
2019-M01-S01	0.19	0.00	0.50	55	0	144	85.5%	2
2019-M02-S01	1.18	0.41	2.24	340	119	646	34.1%	2
2019-M03-S01	0.54	0.10	1.05	155	30	302	44.8%	4
2019-M04-S01	0.33	0.18	0.48	96	54	139	23.2%	4
2019-M04-S02	0.38	0.23	0.51	109	66	149	20.8%	4
2019-M05-S01	0.31	0.16	0.48	89	45	138	26.8%	4
2019-M05-S02	0.22	0.03	0.44	63	10	127	49.3%	4
2019-M06-S01	0.18	0.02	0.41	53	6	118	55.3%	4
2019-M06-S02	0.11	0.00	0.22	31	0	65	52.0%	4
2019-M07-S01	0.22	0.05	0.44	65	14	128	46.2%	4
2019-M07-S02	0.02	0.00	0.05	6	0	16	92.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.15	0.00	0.36	43	1	103	64.8%	4
2019-M09-S01	8.50	4.82	12.39	2447	1388	3567	23.1%	4
2019-M10-S01	7.20	4.08	11.03	2074	1175	3178	19.6%	2
2019-M11-S01	1.15	0.59	1.86	332	170	537	26.2%	2
2019-M12-S01	1.48	0.60	2.53	426	173	729	28.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.71	0.00	1.61	205	0	464	46.8%	2
2020-M03-S01	0.19	0.08	0.34	57	24	98	33.6%	4
2020-M04-S01	4.41	2.54	7.05	1271	731	2031	27.5%	4

Table 11-0-152: Red-throated diver density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.11	11	0	31	88.9%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.04	0.00	0.11	11	0	31	127.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.04	0.00	0.11	12	0	31	90.4%	2
2019-M01-S01	0.03	0.00	0.10	9	0	30	93.9%	2
2019-M02-S01	0.04	0.00	0.11	12	0	31	92.2%	2
2019-M03-S01	0.04	0.00	0.11	11	0	33	90.7%	4
2019-M04-S01	0.18	0.10	0.26	51	29	76	24.4%	4
2019-M04-S02	0.02	0.00	0.05	6	0	16	89.6%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.14	0.03	0.26	42	10	75	40.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.07	0.00	0.22	20	0	62	115.0%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.11	12	0	31	96.0%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.02	0.00	0.05	6	0	15	86.3%	4

Table 11-0-153: Red-throated diver density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.00	0.11	11	0	31	92.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-154: Red-throated diver density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.11	11	0	31	91.1%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.04	0.00	0.11	11	0	31	127.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.03	0.00	0.11	9	0	31	92.3%	2
2019-M01-S01	0.03	0.00	0.10	9	0	30	92.3%	2
2019-M02-S01	0.03	0.00	0.11	9	0	31	91.0%	2
2019-M03-S01	0.04	0.00	0.12	11	0	34	93.7%	4
2019-M04-S01	0.17	0.10	0.26	51	28	76	24.5%	4
2019-M04-S02	0.02	0.00	0.05	6	0	15	89.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.11	0.03	0.20	31	10	59	41.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.07	0.00	0.22	21	0	63	109.5%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.11	12	0	31	96.1%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.02	0.00	0.05	6	0	15	83.7%	4

Table 11-0-155: Sandwich tern density and abundance estimates at DEP + 2 km buffer by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.72	1.06	2.38	494	304	687	20.7%	4
2018-M06-S01	0.35	0.14	0.63	102	41	183	35.7%	4
2018-M07-S01	1.67	0.62	3.07	481	180	885	37.8%	4
2018-M08-S01	0.19	0.08	0.34	56	24	97	33.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.55	0.06	1.27	158	19	365	60.4%	4
2019-M04-S02	1.48	0.67	2.66	427	193	767	36.5%	4
2019-M05-S01	1.06	0.62	1.59	306	179	459	23.7%	4
2019-M05-S02	0.45	0.26	0.65	131	76	189	22.6%	4
2019-M06-S01	0.38	0.11	0.79	111	31	228	46.8%	4
2019-M06-S02	0.74	0.16	1.67	214	45	481	54.3%	4
2019-M07-S01	0.09	0.02	0.17	25	5	50	48.4%	4
2019-M07-S02	0.27	0.10	0.48	79	29	139	36.4%	4
2019-M08-S01	0.25	0.09	0.42	71	25	122	35.0%	4
2019-M08-S02	0.05	0.00	0.12	14	0	35	65.7%	4
2019-M09-S01	0.17	0.02	0.37	49	5	108	54.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-156: Sandwich tern density and abundance estimates at DEP + 2 km buffer by survey – all birds (model-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.45	0.90	2.21	416	260	636	22.8%	4
2018-M06-S01	0.30	0.14	0.57	85	39	164	44.2%	4
2018-M07-S01	2.22	1.52	3.19	639	437	915	22.5%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	1.21	0.52	2.44	349	150	700	40.4%	4
2019-M04-S02	1.19	0.50	2.42	341	145	694	40.5%	4
2019-M05-S01	0.75	0.47	1.15	216	135	331	23.7%	4
2019-M05-S02	0.75	0.47	1.16	216	135	332	24.1%	4
2019-M06-S01	0.71	0.31	1.40	204	90	403	43.0%	4
2019-M06-S02	0.56	0.27	1.03	161	79	295	41.4%	4
2019-M07-S01	0.17	0.07	0.35	49	22	100	46.9%	4
2019-M07-S02	0.17	0.07	0.35	48	21	100	48.4%	4
2019-M08-S01	0.11	0.04	0.25	31	11	73	84.0%	4
2019-M08-S02	0.11	0.04	0.26	31	11	74	85.4%	4
2019-M09-S01	0.23	0.08	0.56	67	24	160	70.2%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-157: Sandwich tern density and abundance estimates at DEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.69	1.05	2.35	487	302	677	20.0%	4
2018-M06-S01	0.35	0.12	0.63	101	35	182	36.6%	4
2018-M07-S01	1.69	0.65	3.10	488	187	893	37.6%	4
2018-M08-S01	0.19	0.07	0.33	56	21	96	34.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.54	0.06	1.28	156	19	369	61.6%	4
2019-M04-S02	1.38	0.56	2.61	399	163	752	40.7%	4
2019-M05-S01	0.99	0.55	1.55	286	160	447	25.9%	4
2019-M05-S02	0.46	0.26	0.66	133	76	191	22.1%	4
2019-M06-S01	0.39	0.11	0.82	112	31	236	47.8%	4
2019-M06-S02	0.74	0.17	1.64	213	49	471	56.3%	4
2019-M07-S01	0.09	0.00	0.18	26	0	52	49.2%	4
2019-M07-S02	0.27	0.10	0.50	79	28	145	38.6%	4
2019-M08-S01	0.25	0.09	0.42	72	25	122	34.1%	4
2019-M08-S02	0.05	0.00	0.12	14	0	35	65.7%	4
2019-M09-S01	0.17	0.02	0.37	50	5	108	53.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-158: Sandwich tern density and abundance estimates at DEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.11	0.00	0.31	31	0	90	87.6%	4
2019-M05-S01	0.06	0.00	0.13	17	0	39	59.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-159: Shag density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-160: Shelduck density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-161: Tufted duck density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-162: Woodpigeon density and abundance estimates at DEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.5.3 DEP + 4km Buffer

Table 11-0-163: Arctic skua density and abundance estimates at DEP + 4km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	11	0	25	64.7%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	10	0	30	90.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-164: Arctic skua density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.05	11	0	25	64.7%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.02	0.00	0.06	10	0	30	90.7%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-165: Arctic skua density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	10	0	30	90.9%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-166: Arctic tern density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	8	0	22	80.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.14	0.03	0.30	73	18	153	49.9%	4
2019-M05-S01	0.03	0.01	0.08	17	4	40	60.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.00	1	0	1	96.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-167: Arctic tern density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	8	0	21	80.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.11	0.02	0.26	57	11	130	55.3%	4
2019-M05-S01	0.03	0.01	0.08	18	4	39	56.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.00	1	0	1	98.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-168: Arctic tern density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.01	0.06	16	4	32	44.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-169: Black-headed gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.00	0.09	15	0	44	85.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.07	11	0	37	95.9%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.08	0.03	0.13	39	14	66	35.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.08	0.02	0.16	43	11	80	41.5%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	63.5%	4
2019-M10-S01	0.15	0.04	0.28	74	19	141	75.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.06	11	0	30	84.5%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-170: Black-headed gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.06	11	0	31	95.9%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.08	0.02	0.13	39	11	64	34.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.08	0.02	0.16	41	10	79	44.1%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	64.2%	4
2019-M10-S01	0.14	0.04	0.28	71	20	140	46.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.06	10	0	30	89.2%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-171: Black-headed gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.00	0.09	15	0	45	87.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.01	2	0	4	71.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-172: Common gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	5	0	15	93.0%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.08	0.00	0.18	42	0	91	133.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	11	0	31	209.1%	2
2019-M03-S01	0.02	0.00	0.07	12	0	37	94.6%	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	94.0%	4
2019-M04-S02	0.03	0.00	0.07	14	1	34	62.0%	4
2019-M05-S01	0.03	0.01	0.06	18	6	32	39.9%	4
2019-M05-S02	0.03	0.01	0.06	16	5	29	43.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	6	0	15	79.3%	4
2019-M09-S01	0.02	0.00	0.05	11	1	25	63.7%	4
2019-M10-S01	0.02	0.00	0.07	11	0	33	436.4%	2
2019-M11-S01	0.02	0.00	0.06	11	0	31	118.2%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.02	0.00	0.07	12	0	36	200.0%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	6	0	16	94.8%	4
2020-M04-S01	0.03	0.00	0.08	16	0	41	70.6%	4

Table 11-0-173: Common gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	6	0	15	86.8%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.08	0.00	0.18	41	0	91	63.4%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	11	0	30	88.8%	2
2019-M03-S01	0.02	0.00	0.08	11	0	41	100.9%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	93.3%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.02	0.00	0.05	11	0	25	61.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	5	0	15	88.4%	4
2019-M09-S01	0.01	0.00	0.03	5	1	15	92.4%	4
2019-M10-S01	0.02	0.00	0.06	10	0	31	140.0%	2
2019-M11-S01	0.02	0.00	0.07	11	0	38	99.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	5	0	15	95.7%	4
2020-M04-S01	0.01	0.00	0.03	5	0	16	97.1%	4

Table 11-0-174: Common gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.19	45	0	97	120.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	94.5%	4
2019-M04-S02	0.02	0.00	0.05	10	1	25	73.2%	4
2019-M05-S01	0.03	0.01	0.06	18	6	32	41.4%	4
2019-M05-S02	0.01	0.00	0.03	6	0	15	86.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	2	70.9%	4
2019-M09-S01	0.01	0.00	0.03	6	1	15	91.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.03	0.00	0.08	14	0	39	171.4%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.02	0.00	0.06	11	0	31	93.4%	4

Table 11-0-175: Common scoter density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-176: Common tern density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.06	0.01	0.11	29	4	56	49.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	5	0	15	95.4%	4
2018-M08-S01	0.03	0.00	0.09	15	0	45	91.2%	4
2018-M09-S01	0.03	0.00	0.07	16	0	36	61.8%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.28	0.00	0.80	141	0	404	87.1%	4
2019-M04-S02	0.69	0.13	1.45	353	67	735	50.1%	4
2019-M05-S01	0.52	0.25	0.85	263	127	431	30.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.07	0.02	0.13	36	10	68	42.8%	4
2019-M06-S02	0.06	0.01	0.12	31	6	61	46.8%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.04	0.01	0.09	21	6	44	47.4%	4
2019-M08-S02	0.16	0.02	0.40	81	12	201	66.1%	4
2019-M09-S01	0.63	0.15	1.27	318	77	645	48.2%	4
2019-M10-S01	0.06	0.00	0.14	30	0	71	62.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-177: Common tern density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.06	0.01	0.11	29	6	57	46.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	6	0	16	95.0%	4
2018-M08-S01	0.03	0.00	0.09	16	0	45	87.6%	4
2018-M09-S01	0.03	0.00	0.07	16	0	36	62.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.13	0.00	0.39	67	0	198	90.3%	4
2019-M04-S02	0.40	0.08	0.89	204	39	451	52.6%	4
2019-M05-S01	0.43	0.20	0.74	221	99	373	31.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.07	0.02	0.13	36	10	69	40.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0.06	0.02	0.12	31	10	60	45.5%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.04	0.01	0.08	21	6	42	47.3%	4
2019-M08-S02	0.15	0.02	0.38	76	11	191	67.8%	4
2019-M09-S01	0.60	0.14	1.25	307	73	635	49.1%	4
2019-M10-S01	0.06	0.00	0.14	30	0	70	62.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-178: Common tern density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.14	0.00	0.41	69	0	209	90.3%	4
2019-M04-S02	0.29	0.03	0.61	150	17	312	51.1%	4
2019-M05-S01	0.10	0.00	0.27	50	0	136	73.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-179: Cormorant density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.06	11	0	30	86.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.03	6	0	15	88.5%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.06	0.00	0.18	32	0	91	93.0%	4
2019-M09-S01	0.03	0.00	0.09	15	0	45	99.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-180: Cormorant density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.06	10	0	30	90.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.03	6	0	15	85.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.06	0.00	0.18	31	0	91	95.1%	4
2019-M09-S01	0.03	0.00	0.09	15	0	45	98.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-181: Cormorant density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-182: Fulmar density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.06	11	0	31	96.1%	4
2018-M07-S01	0.02	0.00	0.04	9	0	22	68.6%	4
2018-M08-S01	0.02	0.00	0.05	11	0	25	58.8%	4
2018-M09-S01	0.01	0.00	0.03	5	0	15	95.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.02	0.00	0.06	10	0	31	95.9%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.06	0.00	0.13	30	0	68	54.4%	2
2019-M03-S01	0.04	0.00	0.10	22	0	54	63.3%	4
2019-M04-S01	0.01	0.00	0.03	6	0	16	88.0%	4
2019-M04-S02	0.06	0.01	0.13	31	5	65	55.0%	4
2019-M05-S01	0.07	0.04	0.11	37	21	54	23.4%	4
2019-M05-S02	0.04	0.01	0.08	21	5	43	50.7%	4
2019-M06-S01	0.05	0.01	0.10	26	5	53	48.7%	4
2019-M06-S02	0.02	0.00	0.06	11	0	30	87.9%	4
2019-M07-S01	0.08	0.05	0.11	40	24	55	20.5%	4
2019-M07-S02	0.05	0.02	0.09	26	10	48	37.3%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	5	0	15	86.7%	4
2019-M09-S01	0.17	0.07	0.30	87	37	152	34.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.04	0.00	0.10	20	0	50	67.4%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	5	0	16	94.0%	4
2020-M04-S01	0.01	0.00	0.03	6	0	16	95.2%	4

Table 11-0-183: Fulmar density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.03	6	0	16	95.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.05	11	0	25	59.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0.02	0.00	0.06	12	0	31	91.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	10	0	31	99.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.00	0.08	15	0	39	70.5%	4
2019-M05-S01	0.03	0.01	0.06	17	5	31	43.0%	4
2019-M05-S02	0.03	0.00	0.06	16	0	31	50.8%	4
2019-M06-S01	0.03	0.01	0.06	16	5	32	49.7%	4
2019-M06-S02	0.01	0.00	0.03	6	0	16	93.5%	4
2019-M07-S01	0.03	0.01	0.06	16	5	30	46.4%	4
2019-M07-S02	0.03	0.00	0.06	16	0	30	48.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	6	0	15	87.2%	4
2019-M09-S01	0.06	0.01	0.12	30	5	63	47.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.04	0.00	0.10	21	0	51	66.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	5	0	16	93.8%	4
2020-M04-S01	0.01	0.00	0.03	5	0	16	95.7%	4

Table 11-0-184: Fulmar density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.03	5	0	15	96.4%	4
2018-M07-S01	0.02	0.00	0.04	9	0	22	67.2%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.03	6	0	15	90.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.10	20	0	51	68.8%	2
2019-M03-S01	0.04	0.00	0.10	22	0	53	64.7%	4
2019-M04-S01	0.01	0.00	0.03	6	0	16	93.1%	4
2019-M04-S02	0.03	0.00	0.09	15	0	46	94.2%	4
2019-M05-S01	0.04	0.01	0.08	22	5	42	45.3%	4
2019-M05-S02	0.01	0.00	0.03	6	0	15	86.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.02	0.00	0.05	10	0	25	65.3%	4
2019-M06-S02	0.01	0.00	0.03	6	0	15	91.4%	4
2019-M07-S01	0.05	0.02	0.07	24	10	38	28.9%	4
2019-M07-S02	0.02	0.00	0.05	11	0	26	70.5%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.11	0.05	0.20	57	24	99	34.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-185: Gannet density and abundance estimates at DEP + 4 km by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.06	11	0	31	89.5%	4
2018-M06-S01	0.04	0.00	0.09	21	0	45	54.4%	4
2018-M07-S01	0.29	0.05	0.71	150	24	361	67.8%	4
2018-M08-S01	0.18	0.05	0.38	92	25	192	50.2%	4
2018-M09-S01	0.46	0.19	0.81	233	97	410	34.5%	4
2018-M10-S01	0.54	0.12	1.11	274	59	565	48.7%	2
2018-M11-S01	1.44	0.95	1.98	731	482	1006	18.5%	2
2018-M12-S01	0.20	0.06	0.38	101	30	193	41.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.06	0.00	0.14	30	0	71	63.0%	2
2019-M03-S01	0.06	0.00	0.13	30	0	65	60.4%	4
2019-M04-S01	0.40	0.07	0.87	205	34	440	51.5%	4
2019-M04-S02	0.13	0.06	0.21	66	30	105	30.5%	4
2019-M05-S01	0.13	0.03	0.24	64	17	122	43.8%	4
2019-M05-S02	0.12	0.04	0.24	62	20	122	41.7%	4
2019-M06-S01	0.09	0.00	0.23	47	0	117	64.0%	4
2019-M06-S02	0.08	0.02	0.15	41	10	77	45.1%	4
2019-M07-S01	0.05	0.00	0.11	25	0	54	50.3%	4
2019-M07-S02	0.08	0.03	0.15	41	15	76	39.8%	4
2019-M08-S01	0.28	0.11	0.47	143	55	239	33.3%	4
2019-M08-S02	0.24	0.07	0.46	123	34	236	44.7%	4
2019-M09-S01	1.40	0.78	2.04	708	398	1033	22.9%	4
2019-M10-S01	0.66	0.33	1.02	335	167	518	27.4%	2
2019-M11-S01	1.23	0.67	1.90	624	341	962	25.8%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0.02	0.00	0.06	10	0	30	87.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.06	0.00	0.18	30	0	91	96.8%	2
2020-M03-S01	0.02	0.00	0.05	10	0	25	65.9%	4
2020-M04-S01	0.88	0.46	1.36	446	231	689	26.6%	4

Table 11-0-186: Gannet density and abundance estimates at DEP + 4 km by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	5	0	15	90.0%	4
2018-M06-S01	0.02	0.00	0.05	10	0	25	70.4%	4
2018-M07-S01	0.02	0.00	0.05	11	0	25	60.5%	4
2018-M08-S01	0.06	0.01	0.11	31	6	55	40.4%	4
2018-M09-S01	0.20	0.08	0.34	101	43	171	32.6%	4
2018-M10-S01	0.14	0.04	0.29	71	20	148	45.6%	2
2018-M11-S01	0.66	0.43	0.91	335	216	460	19.1%	2
2018-M12-S01	0.14	0.04	0.28	73	20	141	44.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.12	21	0	60	87.5%	2
2019-M03-S01	0.06	0.00	0.14	31	0	69	59.1%	4
2019-M04-S01	0.23	0.05	0.49	118	25	249	51.2%	4
2019-M04-S02	0.09	0.04	0.15	46	20	75	29.9%	4
2019-M05-S01	0.07	0.01	0.15	38	6	77	46.6%	4
2019-M05-S02	0.06	0.01	0.12	31	5	60	44.4%	4
2019-M06-S01	0.07	0.01	0.16	36	5	80	56.1%	4
2019-M06-S02	0.04	0.01	0.08	21	5	41	50.0%	4
2019-M07-S01	0.03	0.00	0.06	16	0	30	48.3%	4
2019-M07-S02	0.04	0.01	0.08	21	5	42	50.1%	4
2019-M08-S01	0.15	0.04	0.28	76	19	142	42.3%	4
2019-M08-S02	0.09	0.02	0.19	46	10	96	49.5%	4
2019-M09-S01	0.22	0.12	0.31	110	63	157	22.1%	4
2019-M10-S01	0.33	0.08	0.64	167	41	323	44.4%	2
2019-M11-S01	0.43	0.16	0.75	217	80	382	37.7%	2
2019-M12-S01	0.02	0.00	0.06	10	0	30	89.4%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.06	10	0	31	95.1%	2
2020-M03-S01	0.02	0.00	0.05	11	0	25	62.0%	4
2020-M04-S01	0.40	0.27	0.52	202	135	266	17.0%	4

Table 11-0-187: Gannet density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	6	0	16	91.1%	4
2018-M06-S01	0.06	0.02	0.11	31	10	58	40.1%	4
2018-M07-S01	0.25	0.02	0.79	126	10	402	84.8%	4
2018-M08-S01	0.11	0.02	0.25	56	10	127	59.6%	4
2018-M09-S01	0.26	0.07	0.56	131	38	284	47.6%	4
2018-M10-S01	0.40	0.06	0.86	203	29	434	52.0%	2
2018-M11-S01	0.78	0.41	1.20	396	210	610	26.2%	2
2018-M12-S01	0.06	0.00	0.16	30	0	81	72.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	10	0	31	97.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.16	0.01	0.33	82	6	166	51.3%	4
2019-M04-S02	0.04	0.00	0.09	21	0	46	56.5%	4
2019-M05-S01	0.05	0.00	0.11	27	0	58	54.2%	4
2019-M05-S02	0.06	0.01	0.13	32	5	69	51.8%	4
2019-M06-S01	0.02	0.00	0.06	11	0	31	99.4%	4
2019-M06-S02	0.04	0.00	0.10	21	0	50	67.3%	4
2019-M07-S01	0.02	0.00	0.05	10	0	24	59.7%	4
2019-M07-S02	0.04	0.01	0.07	20	5	36	41.0%	4
2019-M08-S01	0.13	0.04	0.26	68	21	133	44.8%	4
2019-M08-S02	0.14	0.04	0.31	72	19	156	50.1%	4
2019-M09-S01	1.15	0.60	1.81	586	304	917	26.5%	4
2019-M10-S01	0.34	0.12	0.62	173	61	313	37.1%	2
2019-M11-S01	0.80	0.32	1.43	406	160	726	36.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.12	20	0	61	96.6%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.47	0.15	0.82	239	76	415	37.1%	4

Table 11-0-188: Golden plover density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-189: Great black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.01	0.06	16	5	31	48.3%	4
2018-M06-S01	0.02	0.00	0.06	11	0	32	97.1	4
2018-M07-S01	0.02	0.00	0.07	13	0	38	95.6%	4
2018-M08-S01	0.02	0.00	0.07	12	0	35	89.8%	4
2018-M09-S01	0.04	0.01	0.07	20	5	38	48.5%	4
2018-M10-S01	0.11	0.00	0.33	56	0	165	82.1%	2
2018-M11-S01	0.04	0.00	0.10	20	0	50	68.7%	2
2018-M12-S01	0.11	0.02	0.25	55	10	128	47.3%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	10	0	30	87.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.06	11	0	30	93.3%	4
2019-M04-S02	0.01	0.00	0.03	5	0	15	87.0%	4
2019-M05-S01	0.00	0.00	0.01	2	0	4	56.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.01	0.00	0.03	5	0	16	98.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.35	0.09	0.62	179	48	316	39.4%	4
2019-M10-S01	0.06	0.02	0.12	30	10	59	45.6%	2
2019-M11-S01	0.06	0.02	0.12	30	10	60	45.4%	2
2019-M12-S01	0.02	0.00	0.07	12	0	36	116.7%	2
2020-M01-S01	0.09	0.00	0.21	44	0	108	65.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.01	0.07	20	5	36	41.0%	4

Table 11-0-190: Great black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.06	16	0	31	49.9%	4
2018-M06-S01	0.01	0.00	0.03	6	0	16	94.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	7	0	20	86.1%	4
2018-M09-S01	0.02	0.00	0.05	10	0	25	63.9%	4
2018-M10-S01	0.02	0.00	0.08	12	0	39	133.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0.06	0.02	0.12	31	9	60	48.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.06	11	0	30	82.3%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	84.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	5	0	15	91.0%	4
2019-M10-S01	0.02	0.00	0.06	10	0	31	94.7%	2
2019-M11-S01	0.02	0.00	0.06	11	0	30	85.7%	2
2019-M12-S01	0.02	0.00	0.07	11	0	37	93.0%	2
2020-M01-S01	0.04	0.00	0.08	21	0	41	52.0%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-191: Great black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.03	5	0	16	99.4%	4
2018-M07-S01	0.03	0.00	0.07	14	0	38	93.7%	4
2018-M08-S01	0.01	0.00	0.03	5	0	15	90.3%	4
2018-M09-S01	0.02	0.00	0.06	11	0	30	84.7%	4
2018-M10-S01	0.08	0.00	0.23	40	0	119	92.5%	2
2018-M11-S01	0.04	0.00	0.10	20	0	50	67.3%	2
2018-M12-S01	0.05	0.00	0.14	26	0	72	65.4%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.06	11	0	30	90.3%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.00	0.00	0.01	2	0	5	60.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.01	0.00	0.03	6	0	16	96.1%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.34	0.09	0.65	174	48	327	42.1%	4
2019-M10-S01	0.04	0.00	0.09	20	0	48	59.7%	2
2019-M11-S01	0.02	0.00	0.06	10	0	31	93.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.05	0.00	0.14	25	0	72	84.0%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.04	0.01	0.07	20	5	36	40.9%	4

Table 11-0-192: Great crested grebe density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.04	11	0	23	55.9%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-193: Great crested grebe density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-194: Great crested grebe density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.04	10	0	21	58.7%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-195: Great skua density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	10	0	30	85.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	6	0	15	88.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-196: Great skua density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	10	0	30	90.3%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	5	0	15	89.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-197: Great skua density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	10	0	30	88.8%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-198: Guillemot density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	3.08	2.34	3.93	1564	1187	1992	13.7%	4
2018-M06-S01	1.62	1.03	2.38	818	519	1206	23.0%	4
2018-M07-S01	2.26	1.30	3.44	1146	665	1744	26.4%	4
2018-M08-S01	21.95	12.64	31.48	11124	6404	15954	24.7%	4
2018-M09-S01	7.38	3.74	13.10	3741	1897	6640	36.0%	4
2018-M10-S01	37.86	10.69	69.17	19189	5425	35100	46.2%	2
2018-M11-S01	5.30	4.59	6.04	2684	2330	3065	7.5%	2
2018-M12-S01	4.30	2.64	6.05	2182	1341	3069	22.7%	2
2019-M01-S01	1.16	0.82	1.57	589	416	795	18.0%	2
2019-M02-S01	1.22	0.84	1.65	618	426	839	17.2%	2
2019-M03-S01	0.37	0.24	0.49	186	118	250	19.9%	4
2019-M04-S01	2.85	1.70	4.13	1446	862	2098	22.8%	4
2019-M04-S02	4.54	3.21	6.33	2301	1626	3208	18.4%	4
2019-M05-S01	4.81	3.63	5.98	2433	1837	3033	13.0%	4
2019-M05-S02	0.71	0.49	0.99	359	248	500	19.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.74	0.34	1.26	376	171	640	32.7%	4
2019-M06-S02	0.87	0.58	1.21	442	292	617	19.2%	4
2019-M07-S01	2.31	1.25	3.47	1175	635	1761	26.7%	4
2019-M07-S02	1.58	0.63	2.93	803	319	1485	38.9%	4
2019-M08-S01	1.01	0.49	1.65	516	245	832	31.8%	4
2019-M08-S02	2.50	1.32	3.95	1267	669	2004	28.9%	4
2019-M09-S01	56.58	35.59	76.14	28671	18034	38588	18.9%	4
2019-M10-S01	9.08	7.14	11.18	4605	3621	5675	12.8%	2
2019-M11-S01	3.55	2.68	4.58	1801	1358	2323	15.4%	2
2019-M12-S01	1.31	0.83	1.83	663	422	927	21.6%	2
2020-M01-S01	1.38	0.92	1.86	698	465	942	18.9%	2
2020-M02-S01	1.05	0.53	1.76	532	270	892	19.1%	2
2020-M03-S01	3.71	2.95	4.49	1877	1492	2276	11.1%	4
2020-M04-S01	19.95	13.97	26.81	10110	7083	13586	16.2%	4

Table 11-0-199: Guillemot density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.02	0.09	26	10	45	40.4%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	6	0	15	90.3%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.05	11	0	25	63.8%	4
2018-M10-S01	0.26	0.04	0.59	134	20	298	51.5%	2
2018-M11-S01	0.10	0.02	0.22	52	10	111	38.5%	2
2018-M12-S01	0.06	0.00	0.14	31	0	69	60.4%	2
2019-M01-S01	0.02	0.00	0.06	11	0	31	93.4%	2
2019-M02-S01	0.11	0.00	0.30	54	0	150	86.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.05	10	0	26	70.5%	4
2019-M04-S02	0.02	0.00	0.05	11	0	26	67.3%	4
2019-M05-S01	0.04	0.01	0.08	20	4	42	52.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.04	9	0	22	62.0%	4
2019-M06-S02	0.01	0.00	0.03	5	0	15	93.4%	4
2019-M07-S01	0.01	0.00	0.03	6	0	16	96.8%	4
2019-M07-S02	0.01	0.00	0.03	6	0	16	92.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.01	0.08	21	5	44	50.3%	4
2019-M10-S01	0.07	0.00	0.24	37	0	121	121.6%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.04	0.00	0.09	21	0	48	59.3%	2
2019-M12-S01	0.02	0.00	0.06	11	0	31	94.6%	2
2020-M01-S01	0.04	0.00	0.10	21	0	50	61.8%	2
2020-M02-S01	0.28	0.00	0.74	142	0	378	61.3%	2
2020-M03-S01	0.10	0.04	0.16	51	20	82	31.3%	4
2020-M04-S01	1.95	1.32	2.66	990	670	1349	18.1%	4

Table 11-0-200: Guillemot density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.30	1.76	2.92	1168	894	1479	13.1%	4
2018-M06-S01	1.23	0.78	1.80	624	395	910	21.6%	4
2018-M07-S01	1.71	0.99	2.59	866	505	1313	24.4%	4
2018-M08-S01	16.67	9.60	23.91	8449	4864	12117	22.5%	4
2018-M09-S01	5.59	2.84	9.91	2833	1441	5024	34.3%	4
2018-M10-S01	34.02	9.55	62.32	17261	4848	31620	36.4%	2
2018-M11-S01	4.56	3.90	5.25	2313	1977	2665	6.5%	2
2018-M12-S01	3.73	2.18	5.44	1891	1105	2759	18.6%	2
2019-M01-S01	1.23	0.83	1.69	622	419	859	13.0%	2
2019-M02-S01	1.05	0.74	1.32	532	377	671	12.4%	2
2019-M03-S01	0.28	0.18	0.37	141	90	190	18.7%	4
2019-M04-S01	2.15	1.29	3.10	1091	655	1574	21.7%	4
2019-M04-S02	3.43	2.44	4.77	1739	1235	2417	17.5%	4
2019-M05-S01	3.62	2.75	4.48	1833	1392	2272	12.2%	4
2019-M05-S02	0.54	0.37	0.75	273	188	380	18.0%	4
2019-M06-S01	0.55	0.26	0.93	279	130	469	31.5%	4
2019-M06-S02	0.65	0.44	0.90	332	222	457	18.0%	4
2019-M07-S01	1.75	0.95	2.61	888	482	1325	25.3%	4
2019-M07-S02	1.19	0.48	2.20	605	242	1116	37.0%	4
2019-M08-S01	0.77	0.37	1.25	392	186	632	29.2%	4
2019-M08-S02	1.90	1.00	3.00	962	508	1522	26.9%	4
2019-M09-S01	42.94	27.02	57.77	21760	13693	29274	18.3%	4
2019-M10-S01	8.54	6.50	10.68	4334	3299	5417	9.8%	2
2019-M11-S01	3.25	2.30	4.33	1649	1167	2198	12.3%	2
2019-M12-S01	1.17	0.75	1.63	596	380	829	17.8%	2
2020-M01-S01	1.27	0.76	1.81	643	386	919	14.8%	2
2020-M02-S01	0.83	0.53	1.14	420	267	577	16.2%	2
2020-M03-S01	2.74	2.21	3.29	1387	1118	1666	10.4%	4
2020-M04-S01	13.67	9.61	18.34	6927	4871	9294	16.5%	4

Table 11-0-201: Herring gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	5	0	15	96.1%	4
2018-M08-S01	0.00	0.00	0.01	2	0	5	83.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.07	0.00	0.15	34	0	77	70.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.02	0.00	0.06	10	0	30	89.0%	2
2019-M02-S01	0.02	0.00	0.06	10	0	30	86.5%	2
2019-M03-S01	0.02	0.00	0.06	10	0	29	85.4%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	84.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	16	0	35	62.0%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	6	1	16	77.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.06	10	0	30	87.3%	2
2020-M03-S01	0.02	0.00	0.04	11	0	21	50.4%	4
2020-M04-S01	0.03	0.00	0.06	17	2	32	46.0%	4

Table 11-0-202: Herring gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.03	6	0	16	92.5%	4
2018-M08-S01	0.00	0.00	0.01	2	0	5	89.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.08	0.00	0.18	40	0	93	57.5%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.02	0.00	0.06	11	0	30	87.0%	2
2019-M02-S01	0.02	0.00	0.06	10	0	30	88.2%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	87.4%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	16	0	36	63.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	5	0	15	88.2%	4
2020-M04-S01	0.03	0.00	0.06	16	0	31	49.1%	4

Table 11-0-203: Herring gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.14	31	0	71	71.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.02	0.00	0.06	10	0	29	84.7%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	6	1	17	81.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.06	10	0	30	88.9%	2
2020-M03-S01	0.01	0.00	0.03	6	0	15	90.0%	4
2020-M04-S01	0.00	0.00	0.01	2	0	4	99.5%	4

Table 11-0-204: Kestrel density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	91.4%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-205: Kestrel density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	6	0	15	85.5%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-206: Kestrel density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-207: Kittiwake density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.40	0.69	2.13	711	352	1081	27.0%	4
2018-M06-S01	1.05	0.67	1.42	532	339	718	18.4%	4
2018-M07-S01	0.56	0.20	0.99	284	101	503	36.5%	4
2018-M08-S01	3.23	1.58	4.82	1638	801	2444	25.6%	4
2018-M09-S01	0.76	0.32	1.28	385	161	651	32.8%	4
2018-M10-S01	5.10	0.67	11.30	2590	340	5733	54.7%	2
2018-M11-S01	0.20	0.06	0.35	103	31	178	33.0%	2
2018-M12-S01	0.24	0.07	0.44	122	37	225	37.7%	2
2019-M01-S01	0.16	0.08	0.23	81	41	118	23.5%	2
2019-M02-S01	0.29	0.08	0.54	146	39	275	42.5%	2
2019-M03-S01	0.08	0.00	0.17	41	0	89	58.8%	4
2019-M04-S01	1.62	1.11	2.22	821	563	1125	17.9%	4
2019-M04-S02	2.28	1.42	3.34	1156	720	1691	21.8%	4
2019-M05-S01	0.83	0.46	1.24	422	235	628	24.3%	4
2019-M05-S02	0.84	0.44	1.33	428	223	674	26.5%	4
2019-M06-S01	0.35	0.05	0.82	179	28	415	57.9%	4
2019-M06-S02	0.23	0.03	0.55	118	15	281	60.3%	4
2019-M07-S01	0.53	0.34	0.75	270	170	381	20.4%	4
2019-M07-S02	0.26	0.11	0.43	132	56	217	32.0%	4
2019-M08-S01	0.06	0.01	0.13	31	5	68	54.6%	4
2019-M08-S02	0.63	0.20	1.29	321	103	655	48.4%	4
2019-M09-S01	6.91	4.10	9.64	3502	2078	4886	21.2%	4
2019-M10-S01	0.23	0.06	0.45	116	31	230	58.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.14	0.04	0.26	69	19	130	39.1%	2
2020-M01-S01	0.20	0.08	0.35	103	41	180	35.9%	2
2020-M02-S01	0.32	0.16	0.50	163	79	254	20.9%	2
2020-M03-S01	0.17	0.08	0.26	86	40	132	27.9%	4
2020-M04-S01	5.48	4.24	6.74	2779	2149	3415	11.7%	4

Table 11-0-208: Kittiwake density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.61	0.28	0.98	312	144	495	29.3%	4
2018-M06-S01	0.41	0.24	0.60	210	123	302	22.2%	4
2018-M07-S01	0.13	0.05	0.22	66	24	114	36.1%	4
2018-M08-S01	0.83	0.48	1.14	419	243	578	20.5%	4
2018-M09-S01	0.37	0.18	0.59	189	92	301	29.4%	4
2018-M10-S01	1.89	0.18	4.39	959	90	2227	58.2%	2
2018-M11-S01	0.07	0.02	0.14	38	10	71	42.1%	2
2018-M12-S01	0.18	0.04	0.33	92	21	165	40.2%	2
2019-M01-S01	0.12	0.06	0.19	62	29	96	28.3%	2
2019-M02-S01	0.16	0.04	0.31	82	20	156	44.5%	2
2019-M03-S01	0.02	0.00	0.06	11	0	29	79.6%	4
2019-M04-S01	0.96	0.63	1.30	487	320	660	17.9%	4
2019-M04-S02	1.00	0.67	1.36	510	340	687	17.4%	4
2019-M05-S01	0.21	0.05	0.45	108	27	226	49.3%	4
2019-M05-S02	0.24	0.12	0.36	123	61	184	25.3%	4
2019-M06-S01	0.03	0.00	0.07	16	0	37	66.3%	4
2019-M06-S02	0.12	0.03	0.27	61	14	136	56.6%	4
2019-M07-S01	0.36	0.25	0.49	184	127	247	16.9%	4
2019-M07-S02	0.05	0.02	0.08	26	10	41	33.3%	4
2019-M08-S01	0.04	0.00	0.12	21	0	60	77.1%	4
2019-M08-S02	0.10	0.05	0.15	51	28	76	24.9%	4
2019-M09-S01	1.67	0.87	2.61	846	440	1324	26.2%	4
2019-M10-S01	0.16	0.06	0.30	82	30	152	41.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.10	0.02	0.19	50	10	97	43.2%	2
2020-M01-S01	0.12	0.04	0.22	61	20	111	40.1%	2
2020-M02-S01	0.10	0.02	0.19	51	11	98	44.3%	2
2020-M03-S01	0.11	0.05	0.19	57	23	97	33.5%	4
2020-M04-S01	2.32	1.91	2.75	1177	967	1396	9.9%	4

Table 11-0-209: Kittiwake density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.78	0.33	1.36	396	166	691	35.6%	4
2018-M06-S01	1.47	0.98	1.97	745	499	996	16.9%	4
2018-M07-S01	0.43	0.12	0.80	216	61	407	42.6%	4
2018-M08-S01	2.42	1.05	3.74	1226	531	1896	28.1%	4
2018-M09-S01	0.39	0.03	0.90	198	15	458	61.2%	4
2018-M10-S01	3.22	0.44	6.87	1635	221	3485	50.3%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.14	0.04	0.26	72	20	131	31.9%	2
2018-M12-S01	0.06	0.00	0.16	28	0	83	92.9%	2
2019-M01-S01	0.04	0.00	0.09	20	0	47	58.4%	2
2019-M02-S01	0.12	0.04	0.24	63	19	123	54.0%	2
2019-M03-S01	0.06	0.00	0.12	31	0	61	51.8%	4
2019-M04-S01	0.67	0.35	1.04	340	177	526	25.5%	4
2019-M04-S02	1.23	0.59	2.05	626	298	1038	30.4%	4
2019-M05-S01	0.63	0.33	0.92	320	166	468	24.6%	4
2019-M05-S02	0.57	0.26	1.01	290	132	510	33.1%	4
2019-M06-S01	0.33	0.04	0.77	167	21	391	59.4%	4
2019-M06-S02	0.11	0.00	0.27	55	0	135	67.7%	4
2019-M07-S01	0.17	0.05	0.33	86	28	167	43.4%	4
2019-M07-S02	0.21	0.08	0.36	105	40	183	35.4%	4
2019-M08-S01	0.02	0.00	0.05	11	0	25	63.0%	4
2019-M08-S02	0.52	0.11	1.18	262	59	600	58.5%	4
2019-M09-S01	5.13	2.79	7.47	2599	1414	3784	23.8%	4
2019-M10-S01	0.07	0.00	0.16	34	0	81	144.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.04	0.00	0.12	21	0	60	61.9%	2
2020-M01-S01	0.07	0.00	0.15	38	0	77	71.1%	2
2020-M02-S01	0.22	0.06	0.42	112	30	215	30.4%	2
2020-M03-S01	0.06	0.02	0.12	31	10	62	44.5%	4
2020-M04-S01	3.17	2.28	4.30	1606	1154	2178	16.6%	4

Table 11-0-210: Knot density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.40	0.00	1.19	204	0	603	93.9%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-211: Knot density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.41	0.00	1.20	207	0	609	97.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-212: Knot density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-213: Lapwing density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-214: Lesser black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.38	0.08	0.79	194	44	400	46.5%	4
2018-M07-S01	0.30	0.12	0.53	154	62	271	36.2%	4
2018-M08-S01	0.09	0.03	0.18	47	14	93	46.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.07	0.00	0.15	34	0	75	67.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.03	0.00	0.07	16	0	34	57.1%	4
2019-M04-S02	0.05	0.02	0.09	27	11	45	32.7%	4
2019-M05-S01	0.02	0.00	0.04	10	0	22	59.0%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.01	0.00	0.03	5	0	15	89.4%	4
2019-M06-S01	0.03	0.00	0.08	17	0	40	67.0%	4
2019-M06-S02	0.01	0.00	0.03	6	0	15	86.0%	4
2019-M07-S01	0.09	0.03	0.16	48	15	83	37.9%	4
2019-M07-S02	0.09	0.02	0.17	46	10	88	43.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	6	0	15	80.9%	4
2019-M09-S01	0.01	0.00	0.03	6	1	15	78.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.07	12	0	35	108.3%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-215: Lesser black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.16	0.04	0.32	82	23	163	44.3%	4
2018-M07-S01	0.09	0.03	0.16	46	15	80	35.7%	4
2018-M08-S01	0.03	0.00	0.08	17	0	40	62.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.03	0.00	0.07	16	0	35	60.3%	4
2019-M04-S02	0.05	0.02	0.08	26	10	41	33.7%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.03	6	0	16	92.8%	4
2019-M06-S02	0.01	0.00	0.03	5	0	15	86.3%	4
2019-M07-S01	0.06	0.02	0.11	31	10	55	40.7%	4
2019-M07-S02	0.07	0.01	0.16	36	5	81	56.5%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	6	0	15	85.4%	4
2019-M09-S01	0.01	0.00	0.03	6	0	15	87.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.06	11	0	30	88.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-216: Lesser black-backed gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.22	0.04	0.47	112	21	237	48.7%	4
2018-M07-S01	0.22	0.06	0.44	111	30	224	44.5%	4
2018-M08-S01	0.06	0.02	0.11	31	10	58	42.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.14	31	0	70	71.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.01	2	0	4	95.5%	4
2019-M05-S01	0.02	0.00	0.04	9	0	21	57.5%	4
2019-M05-S02	0.01	0.00	0.03	5	0	15	90.3%	4
2019-M06-S01	0.02	0.00	0.06	10	0	31	97.9%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.06	17	0	33	47.7%	4
2019-M07-S02	0.02	0.00	0.05	11	0	25	63.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	48.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-217: Little gull density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	1.94	0.46	4.15	982	232	2106	51.1%	2
2018-M11-S01	0.08	0.00	0.17	40	0	85	70.0%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.05	11	0	25	59.2%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	5	0	16	95.4%	4
2019-M09-S01	0.05	0.00	0.12	28	1	61	57.0%	4
2019-M10-S01	2.35	1.53	3.30	1194	777	1673	18.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.03	6	0	15	85.5%	4

Table 11-0-218: Little gull density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	1.26	0.42	2.36	637	213	1197	39.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.07	0.00	0.15	36	0	77	50.0%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.05	10	0	24	59.8%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	5	0	16	93.9%	4
2019-M09-S01	0.05	0.00	0.12	27	1	62	57.0%	4
2019-M10-S01	1.77	1.06	2.59	898	539	1314	21.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-219: Little gull density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.64	0.04	1.68	324	22	855	72.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.58	0.31	0.85	296	159	430	24.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.03	6	0	15	87.5%	4

Table 11-0-220: Little tern density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-221: Long-tailed skua density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.03	6	0	16	94.1%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-222: Long-tailed skua density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.03	6	0	16	94.6%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-223: Long-tailed skua density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-224: Manx shearwater density and abundance estimates at DEP + 4 buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.14	0.00	0.42	70	0	211	94.8%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.00	0.17	31	0	89	88.3%	4
2019-M10-S01	0.02	0.00	0.07	12	0	34	1050.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-225: Manx shearwater density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.02	0.00	0.07	12	0	38	183.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-226: Manx shearwater density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.13	0.00	0.41	65	0	209	96.5%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.00	0.17	31	0	88	87.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-227: Oystercatcher density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.03	0.00	0.07	16	0	38	69.3%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-228: Oystercatcher density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.03	0.00	0.08	16	0	40	72.8%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-229: Oystercatcher density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-230: Pomarine skua density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-231: Puffin density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.05	9	0	23	88.9%	4
2018-M06-S01	0.05	0.01	0.09	24	8	45	50.0%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.07	0.02	0.12	33	10	58	51.5%	4
2018-M09-S01	0.02	0.00	0.06	12	3	28	66.7%	4
2018-M10-S01	0.07	0.00	0.16	35	0	82	526.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M02-S01	0.05	0.00	0.09	24	0	47	121.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.03	9	1	21	77.8%	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M05-S01	0.03	0.00	0.09	17	0	48	100.0%	4
2019-M05-S02	0.01	0.00	0.03	8	0	20	87.5%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.08	0.02	0.16	44	13	83	52.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.05	8	0	22	100.0%	4
2019-M09-S01	0.26	0.09	0.44	128	45	224	44.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.05	0.00	0.09	24	0	47	213.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.02	0.19	48	10	97	58.3%	4
2020-M04-S01	0.02	0.00	0.07	15	2	38	93.3%	4

Table 11-0-232: Puffin density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-233: Puffin density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	8	0	20	74.7%	4
2018-M06-S01	0.04	0.01	0.07	21	7	38	39.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.06	0.02	0.10	28	9	50	39.6%	4
2018-M09-S01	0.02	0.00	0.05	10	3	24	57.9%	4
2018-M10-S01	0.06	0.00	0.14	32	0	73	565.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.09	22	0	44	122.7%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.03	8	1	18	68.8%	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	64.2%	4
2019-M05-S01	0.03	0.00	0.08	15	0	41	73.6%	4
2019-M05-S02	0.01	0.00	0.03	7	0	17	66.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.07	0.02	0.14	38	11	71	41.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.04	7	0	19	84.9%	4
2019-M09-S01	0.22	0.08	0.38	110	39	192	36.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.05	0.00	0.09	23	0	45	217.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.08	0.02	0.16	41	9	83	47.8%	4
2020-M04-S01	0.02	0.00	0.06	13	2	33	74.8%	4

Table 11-0-234: Razorbill density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.11	0.04	0.17	54	22	88	38.9%	4
2018-M06-S01	0.06	0.01	0.12	32	7	60	50.0%	4
2018-M07-S01	0.02	0.00	0.09	13	0	45	107.7%	4
2018-M08-S01	1.72	0.87	2.63	874	440	1332	29.2%	4
2018-M09-S01	0.55	0.21	1.08	276	109	547	35.1%	4
2018-M10-S01	13.62	4.68	24.77	6904	2374	12567	49.0%	2
2018-M11-S01	3.36	2.36	4.53	1701	1199	2299	20.5%	2
2018-M12-S01	1.34	0.89	1.85	681	450	938	24.8%	2
2019-M01-S01	0.19	0.05	0.32	95	25	161	57.6%	2
2019-M02-S01	1.20	0.62	1.92	606	313	974	35.0%	2
2019-M03-S01	0.64	0.17	1.17	328	87	597	40.2%	4
2019-M04-S01	0.45	0.32	0.61	230	161	313	20.0%	4
2019-M04-S02	0.46	0.28	0.67	235	145	340	21.3%	4
2019-M05-S01	0.44	0.20	0.70	222	102	353	27.9%	4
2019-M05-S02	0.22	0.05	0.45	114	27	233	48.3%	4
2019-M06-S01	0.26	0.04	0.57	130	18	290	63.1%	4
2019-M06-S02	0.11	0.02	0.20	56	13	100	46.4%	4
2019-M07-S01	0.22	0.07	0.42	112	35	210	47.3%	4
2019-M07-S02	0.01	0.00	0.05	7	1	23	114.3%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S01	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M08-S02	0.12	0.02	0.26	65	13	132	58.5%	4
2019-M09-S01	10.51	6.54	14.07	5330	3317	7129	21.3%	4
2019-M10-S01	6.58	4.50	8.99	3336	2283	4560	19.0%	2
2019-M11-S01	1.33	0.76	2.01	679	384	1022	29.5%	2
2019-M12-S01	2.07	1.04	3.07	1048	527	1558	30.6%	2
2020-M01-S01	0.09	0.00	0.22	48	0	112	100.0%	2
2020-M02-S01	0.72	0.32	1.22	367	163	620	31.2%	2
2020-M03-S01	0.36	0.16	0.67	183	79	340	34.4%	4
2020-M04-S01	5.84	3.16	9.27	2960	1605	4693	28.3%	4

Table 11-0-235: Razorbill density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.06	0.00	0.22	30	0	112	101.4%	4
2018-M10-S01	0.14	0.00	0.32	71	0	164	62.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.04	0.00	0.13	21	0	68	97.9%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.06	10	0	30	93.6%	4
2019-M05-S01	0.05	0.00	0.09	25	2	45	45.0%	4
2019-M05-S02	0.02	0.00	0.07	11	0	37	98.0%	4
2019-M06-S01	0.00	0.00	0.01	2	0	4	84.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.44	0.14	0.76	224	71	386	23.2%	2
2019-M11-S01	0.02	0.00	0.06	11	0	31	98.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.11	0.00	0.31	57	0	155	89.5%	2
2020-M03-S01	0.09	0.00	0.27	46	0	136	97.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M04-S01	0.43	0.19	0.70	217	97	353	29.3%	4

Table 11-0-236: Razorbill density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.09	0.03	0.14	44	18	72	32.2%	4
2018-M06-S01	0.05	0.01	0.10	27	6	50	42.9%	4
2018-M07-S01	0.02	0.00	0.07	11	0	37	91.1%	4
2018-M08-S01	1.41	0.71	2.15	715	360	1090	25.5%	4
2018-M09-S01	0.40	0.17	0.70	201	89	356	33.2%	4
2018-M10-S01	12.86	4.42	23.41	6524	2245	11878	37.2%	2
2018-M11-S01	3.11	2.12	4.31	1576	1077	2186	15.9%	2
2018-M12-S01	1.24	0.77	1.79	631	390	908	20.6%	2
2019-M01-S01	0.21	0.05	0.37	109	26	190	43.1%	2
2019-M02-S01	1.18	0.58	1.97	601	293	1000	25.3%	2
2019-M03-S01	0.49	0.14	0.85	251	71	433	37.4%	4
2019-M04-S01	0.37	0.26	0.50	188	132	256	17.1%	4
2019-M04-S02	0.36	0.23	0.50	184	119	254	18.5%	4
2019-M05-S01	0.32	0.16	0.50	161	82	252	27.1%	4
2019-M05-S02	0.16	0.04	0.31	84	22	160	44.9%	4
2019-M06-S01	0.21	0.03	0.46	105	15	234	55.0%	4
2019-M06-S02	0.09	0.02	0.16	46	11	82	38.5%	4
2019-M07-S01	0.18	0.06	0.34	92	29	172	41.0%	4
2019-M07-S02	0.01	0.00	0.04	6	1	19	95.5%	4
2019-M08-S01	0.00	0.00	0.00	1	0	1	67.9%	4
2019-M08-S02	0.10	0.02	0.21	53	11	108	50.6%	4
2019-M09-S01	8.60	5.35	11.51	4361	2714	5833	18.4%	4
2019-M10-S01	6.13	4.19	8.45	3113	2125	4290	14.7%	2
2019-M11-S01	1.29	0.69	1.99	653	348	1009	22.8%	2
2019-M12-S01	1.99	0.99	3.00	1008	501	1520	22.7%	2
2020-M01-S01	0.09	0.00	0.24	47	0	122	87.2%	2
2020-M02-S01	0.70	0.34	1.08	353	170	550	22.7%	2
2020-M03-S01	0.22	0.13	0.33	112	65	167	23.8%	4
2020-M04-S01	4.43	2.43	7.01	2244	1234	3551	26.8%	4

*Table 11-0-237: Red-throated diver density and abundance estimates at DEP + 4 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction*

phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.06	11	0	31	83.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	**0.02**	**0.00**	**0.06**	**10**	**0**	**30**	160.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.02	0.00	0.06	10	0	30	86.4%	2
2019-M01-S01	**0.02**	**0.00**	**0.06**	**10**	**0**	**31**	96.7%	2
2019-M02-S01	0.06	0.00	0.13	30	0	65	51.1%	2
2019-M03-S01	0.06	0.00	0.15	32	0	76	60.6%	4
2019-M04-S01	**0.15**	**0.11**	**0.20**	**77**	**55**	**100**	15.3%	4
2019-M04-S02	0.02	0.00	0.05	11	0	24	59.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	**0.10**	**0.03**	**0.17**	**51**	**15**	**88**	37.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.04	0.00	0.12	21	0	62	114.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.12	22	0	61	59.1%	2
2020-M03-S01	0.02	0.00	0.05	11	0	25	61.4%	4
2020-M04-S01	**0.06**	**0.02**	**0.10**	**31**	**10**	**52**	36.1%	4

Table 11-0-238: Red-throated diver density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.03	6	0	16	89.3%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.06	11	0	30	92.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	6	0	15	93.7%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-239: Red-throated diver density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.06	11	0	30	82.1%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	11	0	30	145.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.02	0.00	0.06	10	0	30	87.2%	2
2019-M01-S01	0.02	0.00	0.06	10	0	31	92.8%	2
2019-M02-S01	0.06	0.00	0.13	30	0	64	50.5%	2
2019-M03-S01	0.06	0.00	0.14	33	0	70	56.8%	4
2019-M04-S01	0.14	0.10	0.18	72	53	92	14.5%	4
2019-M04-S02	0.02	0.00	0.05	11	0	24	58.8%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.08	0.03	0.15	41	14	78	41.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.04	0.00	0.12	21	0	62	114.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.06	10	0	31	96.9%	2
2020-M03-S01	0.01	0.00	0.03	5	0	15	89.7%	4
2020-M04-S01	0.06	0.02	0.10	31	10	51	34.6%	4

Table 11-0-240: Sandwich tern density and abundance estimates at DEP + 4 km buffer by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.41	1.01	1.85	717	515	937	15.9%	4
2018-M06-S01	0.51	0.20	0.91	257	98	458	36.6%	4
2018-M07-S01	1.89	0.80	3.19	958	408	1616	32.2%	4
2018-M08-S01	0.13	0.06	0.21	66	30	106	30.2%	4
2018-M09-S01	0.01	0.00	0.03	5	0	15	89.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.42	0.07	0.95	213	36	482	59.0%	4
2019-M04-S02	1.35	0.52	2.30	685	266	1165	33.9%	4
2019-M05-S01	0.87	0.53	1.31	444	270	665	22.3%	4
2019-M05-S02	0.45	0.23	0.74	230	119	376	28.9%	4
2019-M06-S01	0.44	0.11	0.99	223	55	501	57.2%	4
2019-M06-S02	0.86	0.25	1.82	437	125	922	48.6%	4
2019-M07-S01	0.11	0.04	0.19	55	19	96	36.3%	4
2019-M07-S02	0.20	0.06	0.35	103	33	177	37.1%	4
2019-M08-S01	0.16	0.06	0.27	81	30	138	33.9%	4
2019-M08-S02	0.03	0.00	0.08	18	0	42	64.7%	4
2019-M09-S01	0.14	0.03	0.26	69	18	134	44.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-241: Sandwich tern density and abundance estimates at DEP + 4 km buffer by survey – all birds (model-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.33	0.84	2.03	674	423	1023	22.5%	4
2018-M06-S01	0.29	0.13	0.57	148	68	288	44.9%	4
2018-M07-S01	1.94	1.31	2.80	979	662	1414	23.8%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	1.00	0.42	2.03	503	210	1027	42.2%	4
2019-M04-S02	0.99	0.41	2.05	502	208	1036	42.5%	4
2019-M05-S01	0.67	0.42	1.02	339	212	517	23.6%	4
2019-M05-S02	0.68	0.43	1.06	346	215	533	24.0%	4
2019-M06-S01	0.65	0.28	1.32	326	139	668	45.4%	4
2019-M06-S02	0.54	0.25	1.02	271	127	517	44.0%	4
2019-M07-S01	0.16	0.07	0.33	83	37	169	45.5%	4
2019-M07-S02	0.16	0.07	0.33	81	36	167	46.8%	4
2019-M08-S01	0.10	0.04	0.25	52	19	125	82.6%	4
2019-M08-S02	0.10	0.04	0.25	52	18	127	84.6%	4
2019-M09-S01	0.17	0.06	0.42	85	28	210	76.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-242: Sandwich tern density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.41	1.00	1.89	716	508	957	15.9%	4
2018-M06-S01	0.25	0.10	0.45	127	49	226	36.4%	4
2018-M07-S01	1.89	0.83	3.04	957	423	1543	30.8%	4
2018-M08-S01	0.13	0.06	0.21	67	30	107	29.6%	4
2018-M09-S01	0.01	0.00	0.03	5	0	15	89.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.41	0.05	0.93	211	26	470	57.5%	4
2019-M04-S02	1.27	0.54	2.26	643	274	1146	34.6%	4
2019-M05-S01	0.82	0.50	1.21	417	252	616	23.0%	4
2019-M05-S02	0.45	0.23	0.73	226	119	369	28.6%	4
2019-M06-S01	0.33	0.10	0.66	167	51	335	46.7%	4
2019-M06-S02	0.85	0.24	1.81	432	120	917	49.4%	4
2019-M07-S01	0.11	0.03	0.19	56	16	96	37.8%	4
2019-M07-S02	0.20	0.06	0.37	104	32	188	38.6%	4
2019-M08-S01	0.16	0.06	0.27	82	31	139	33.9%	4
2019-M08-S02	0.03	0.00	0.08	17	0	42	62.4%	4
2019-M09-S01	0.14	0.04	0.25	70	21	129	41.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-243: Sandwich tern density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.26	0.10	0.46	130	49	232	36.7%	4
2018-M07-S01	0.05	0.00	0.15	26	0	76	91.8%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.03	6	0	15	86.4%	4
2019-M04-S02	0.10	0.00	0.24	51	0	121	63.2%	4
2019-M05-S01	0.05	0.01	0.10	28	6	53	42.7%	4
2019-M05-S02	0.01	0.00	0.03	5	0	15	89.6%	4
2019-M06-S01	0.10	0.00	0.30	51	0	151	93.1%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-244: Shag density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-245: Shelduck density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.00	0.36	56	0	184	91.9%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-246: Shelduck density and abundance estimates at DEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.10	0.00	0.38	51	0	196	104.5%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-247: Shelduck density and abundance estimates at DEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-248: Tufted duck density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-249: Woodpigeon density and abundance estimates at DEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

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Table 11-0-250: Arctic skua density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-251: Arctic tern density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.01	0.00	0.03	2	0	3	82.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-252: Arctic tern density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.01	0.00	0.03	2	0	3	87.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-253: Arctic tern density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-254: Black-headed gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.05	0.00	0.15	5	0	14	81.6%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.30	0.05	0.64	28	5	60	53.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.16	0.00	0.45	15	0	42	85.5%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-255: Black-headed gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.06	0.00	0.15	6	0	15	80.7%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.29	0.05	0.63	28	5	59	51.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-256: Black-headed gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.16	0.00	0.46	15	0	43	84.1%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-257: Common gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.11	0.00	0.26	11	0	25	64.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.11	0.00	0.30	10	0	28	81.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.23	0.00	0.65	21	0	60	61.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.11	0.00	0.23	10	0	21	54.1%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-258: Common gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.11	0.00	0.25	11	0	23	61.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.10	0.00	0.31	9	0	29	85.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.11	0.00	0.32	11	0	30	89.5%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.11	0.00	0.21	11	0	20	53.3%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 31-0-259: Common gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-260: Common scoter density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-261: Common tern density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.33	0.00	0.94	31	0	88	86.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.16	0.00	0.36	15	0	34	56.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.36	0.00	0.81	34	0	76	60.4%	4
2019-M09-S01	0.01	0.00	0.03	1	0	3	88.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-262: Common tern density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.33	0.00	0.94	31	0	88	84.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.16	0.00	0.34	15	0	32	57.2%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.35	0.00	0.81	33	0	76	59.2%	4
2019-M09-S01	0.01	0.00	0.03	1	0	3	89.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-263: Common tern density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-264: Cormorant density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-265: Fulmar density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.00	0.16	5	0	15	96.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.20	7	0	19	91.4%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.03	0.00	0.07	3	0	7	82.7%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.18	5	0	17	96.4%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-266: Fulmar density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.00	0.15	5	0	15	94.9%	4
2018-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.20	7	0	19	91.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-267: Fulmar density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-268: Gannet density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	2.27	1.70	2.87	211	158	266	13.2%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.10	0.00	0.25	10	0	24	62.6%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.16	6	0	15	85.6%	4
2019-M08-S01	0.11	0.00	0.31	10	0	29	82.5%	4
2019-M08-S02	0.10	0.00	0.20	10	0	19	50.0%	4
2019-M09-S01	0.05	0.00	0.16	5	0	15	92.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.76	0.29	1.27	70	27	118	34.0%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.05	0.00	0.19	6	0	18	97.0%	4

Table 11-0-269: Gannet density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.54	0.20	0.92	50	19	85	33.3%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.11	0.00	0.26	11	0	24	60.7%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.15	5	0	14	90.8%	4
2019-M08-S01	0.05	0.00	0.15	6	0	15	83.0%	4
2019-M08-S02	0.05	0.00	0.16	5	0	15	95.9%	4
2019-M09-S01	0.05	0.00	0.15	5	0	14	90.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.22	0.00	0.51	20	0	47	62.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.05	0.00	0.16	5	0	15	91.7%	4

Table 11-0-270: Gannet density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	1.73	1.28	2.23	160	119	207	14.1%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.06	0.00	0.15	6	0	15	80.5%	4
2019-M08-S02	0.11	0.00	0.20	11	0	19	45.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.54	0.20	0.92	50	19	85	34.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-271: Golden plover density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-272: Great black-backed gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.07	3	0	7	83.4%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.22	0.00	0.51	20	0	47	60.2%	2
2018-M11-S01	0.32	0.00	0.91	30	0	84	83.4%	2
2018-M12-S01	1.21	0.00	3.18	112	0	295	73.4%	2
2019-M01-S01	0.11	0.00	0.31	11	0	29	81.6%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.19	7	0	19	81.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.05	0.00	0.15	5	0	15	84.3%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.22	0.00	0.43	20	0	40	50.7%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-273: Great black-backed gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.32	10	0	30	97.9%	2
2018-M11-S01	0.11	0.00	0.31	10	0	29	83.2%	2
2018-M12-S01	1.14	0.00	3.49	106	0	324	83.0%	2
2019-M01-S01	0.11	0.00	0.31	11	0	29	81.5%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.21	0.00	0.42	19	0	39	50.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-274: Great black-backed gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.07	3	0	7	86.3%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.32	10	0	30	88.9%	2
2018-M11-S01	0.22	0.00	0.61	20	0	57	83.2%	2
2018-M12-S01	0.11	0.00	0.31	10	0	29	84.1%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.20	7	0	19	87.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.05	0.00	0.15	5	0	14	85.9%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-275: Great crested grebe density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-276: Great skua density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-277: Guillemot density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.30	0.70	1.94	121	65	180	27.3%	4
2018-M06-S01	0.21	0.07	0.39	21	7	37	38.1%	4
2018-M07-S01	0.21	0.00	0.51	21	0	49	66.7%	4
2018-M08-S01	1.17	0.29	2.07	109	28	192	40.4%	4
2018-M09-S01	0.39	0.16	0.65	37	14	59	35.1%	4
2018-M10-S01	5.03	3.22	7.19	467	298	667	18.6%	2
2018-M11-S01	4.42	2.54	7.15	410	235	663	29.3%	2
2018-M12-S01	1.44	0.73	2.28	134	68	212	29.0%	2
2019-M01-S01	0.54	0.12	1.09	51	11	101	52.7%	2
2019-M02-S01	1.60	0.76	2.59	148	71	240	34.9%	2
2019-M03-S01	0.14	0.00	0.33	13	0	32	76.9%	4
2019-M04-S01	0.14	0.00	0.29	14	0	26	57.1%	4
2019-M04-S02	1.35	0.91	1.84	126	86	172	11.1%	4
2019-M05-S01	4.56	2.50	6.64	423	233	616	26.5%	4
2019-M05-S02	0.37	0.25	0.47	34	24	43	17.7%	4
2019-M06-S01	0.42	0.20	0.65	39	18	61	33.3%	4
2019-M06-S02	0.14	0.00	0.42	14	0	39	100.0%	4
2019-M07-S01	0.07	0.00	0.20	7	0	18	85.7%	4
2019-M07-S02	0.20	0.00	0.47	20	0	45	65.0%	4
2019-M08-S01	0.14	0.00	0.43	14	0	41	100.0%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	3.09	2.13	4.24	287	199	394	18.8%	4
2019-M10-S01	5.31	1.32	10.93	493	123	1014	44.8%	2
2019-M11-S01	2.31	1.73	2.96	215	161	274	12.0%	2
2019-M12-S01	1.95	0.92	3.23	181	85	299	31.3%	2
2020-M01-S01	0.28	0.00	0.77	26	0	72	70.7%	2
2020-M02-S01	0.55	0.00	1.39	51	0	129	61.0%	2
2020-M03-S01	6.91	1.71	15.39	641	159	1426	61.3%	4
2020-M04-S01	4.44	2.95	6.11	413	274	566	17.4%	4

Table 11-0-278: Guillemot density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.32	10	0	30	95.7%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.11	0.00	0.30	11	0	28	77.1%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.17	0.00	0.47	16	0	44	81.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.16	0.00	0.40	15	0	37	67.0%	4

Table 11-0-279: Guillemot density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.99	0.53	1.47	92	49	137	25.5%	4
2018-M06-S01	0.16	0.05	0.30	16	5	28	39.4%	4
2018-M07-S01	0.16	0.00	0.39	16	0	37	63.1%	4
2018-M08-S01	0.89	0.22	1.57	83	21	146	37.0%	4
2018-M09-S01	0.30	0.12	0.49	28	11	45	32.2%	4
2018-M10-S01	3.98	2.60	5.55	369	241	515	16.5%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	3.57	2.05	5.78	331	190	536	26.0%	2
2018-M12-S01	1.16	0.59	1.84	108	55	171	25.0%	2
2019-M01-S01	0.44	0.10	0.88	41	9	82	46.2%	2
2019-M02-S01	1.29	0.61	2.09	120	57	194	29.8%	2
2019-M03-S01	0.11	0.00	0.25	10	0	24	64.4%	4
2019-M04-S01	0.11	0.00	0.22	11	0	20	54.0%	4
2019-M04-S02	0.94	0.69	1.17	87	65	109	13.2%	4
2019-M05-S01	3.46	1.90	5.04	321	177	468	24.2%	4
2019-M05-S02	0.28	0.19	0.36	26	18	33	15.2%	4
2019-M06-S01	0.32	0.15	0.49	30	14	46	27.7%	4
2019-M06-S02	0.11	0.00	0.32	11	0	30	90.3%	4
2019-M07-S01	0.05	0.00	0.15	5	0	14	80.1%	4
2019-M07-S02	0.15	0.00	0.36	15	0	34	61.1%	4
2019-M08-S01	0.11	0.00	0.33	11	0	31	91.9%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	2.35	1.62	3.22	218	151	299	17.6%	4
2019-M10-S01	4.29	1.07	8.83	398	99	819	39.4%	2
2019-M11-S01	1.73	1.40	2.01	161	130	186	8.9%	2
2019-M12-S01	1.57	0.74	2.61	146	69	242	27.4%	2
2020-M01-S01	0.23	0.00	0.63	21	0	58	61.9%	2
2020-M02-S01	0.44	0.00	1.12	41	0	104	53.7%	2
2020-M03-S01	5.25	1.30	11.69	487	121	1083	55.5%	4
2020-M04-S01	3.25	2.24	4.34	302	208	402	16.8%	4

Table 11-0-280: Herring gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.21	0.00	0.61	19	0	57	81.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-281: Herring gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-282: Herring gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.21	0.00	0.60	19	0	56	82.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-283: Kestrel density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-284: Kittiwake density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.10	0.00	0.31	10	0	29	88.9%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.40	0.00	0.82	37	0	76	89.2%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.10	0.00	0.21	10	0	20	53.8%	4
2019-M06-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.15	6	0	14	80.3%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.00	0.29	10	0	27	81.4%	4
2019-M09-S01	0.53	0.09	1.13	50	9	106	54.1%	4
2019-M10-S01	0.11	0.00	0.32	10	0	30	87.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.43	0.00	0.97	40	0	90	58.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	2.00	0.63	3.76	186	58	349	41.5%	4

Table 11-0-285: Kittiwake density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.25	0.00	0.54	23	0	50	60.9%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.10	0.00	0.21	10	0	20	53.3%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.47	0.05	0.98	44	5	91	51.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.32	0.00	0.91	30	0	84	83.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.91	0.28	1.65	84	27	154	38.6%	4

Table 11-0-286: Kittiwake density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.11	0.00	0.31	10	0	29	86.5%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.14	5	0	14	84.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.00	0.31	11	0	29	81.6%	4
2019-M09-S01	0.05	0.00	0.15	5	0	14	83.3%	4
2019-M10-S01	0.11	0.00	0.31	10	0	29	87.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.11	0.00	0.31	10	0	29	82.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	1.06	0.35	2.11	99	33	196	45.0%	4

Table 11-0-287: Knot density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-288: Lapwing density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-289: Lesser black-backed gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.07	3	0	7	82.3%	4
2018-M06-S01	0.05	0.00	0.16	5	0	15	80.4%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.27	0.00	0.64	26	0	60	63.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.20	7	0	19	92.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.16	0.00	0.41	15	0	38	67.7%	4
2019-M07-S02	0.05	0.00	0.15	5	0	15	84.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.24	0.00	0.54	23	0	51	61.7%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-290: Lesser black-backed gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.05	0.00	0.15	5	0	15	84.0%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.06	0.00	0.16	6	0	15	84.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.17	0.00	0.43	16	0	40	67.7%	4
2019-M07-S02	0.05	0.00	0.15	5	0	15	88.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.00	0.20	10	0	19	48.8%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-291: Lesser black-backed gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.07	3	0	7	81.1%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.17	0.00	0.46	16	0	43	82.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.20	7	0	19	92.4%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.13	0.00	0.38	13	0	36	83.0%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-292: Little gull density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	1.13	0.32	2.05	105	30	190	35.2%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.00	0.13	4	0	12	90.3%	4
2019-M10-S01	0.22	0.00	0.47	20	0	44	56.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-293: Little gull density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.60	0.22	1.02	56	20	95	30.4%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.00	0.13	5	0	12	87.3%	4
2019-M10-S01	0.11	0.00	0.30	10	0	28	80.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-294: Little gull density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.65	0.00	1.58	60	0	147	55.0%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.11	0.00	0.32	10	0	30	92.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-295: Little tern density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-296: Long-tailed skua density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-297: Manx shearwater density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-298: Oystercatcher density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-299: Pomarine skua density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-300: Puffin density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.02	1	0	3	100.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M05-S01	0.06	0.00	0.16	6	0	16	100.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.06	3	0	6	100.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.06	0.00	0.17	6	0	16	116.7%	4
2020-M04-S01	0.00	0.00	0.01	1	0	1	100.0%	4

Table 11-0-301: Puffin density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-302: Puffin density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.02	1	0	3	87.4%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	82.1%	4
2019-M05-S01	0.05	0.00	0.14	5	0	14	79.4%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	3	0	5	55.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.15	5	0	14	89.5%	4
2020-M04-S01	0.00	0.00	0.01	1	0	1	80.9%	4

Table 11-0-303: Razorbill density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.15	0.00	0.42	15	0	40	66.7%	4
2018-M10-S01	4.22	1.54	7.25	391	143	673	35.8%	2
2018-M11-S01	4.22	1.22	7.57	391	113	702	42.3%	2
2018-M12-S01	0.46	0.00	1.11	42	0	103	84.2%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.39	0.00	0.80	36	0	74	62.9%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M04-S02	0.10	0.00	0.23	10	0	22	70.0%	4
2019-M05-S01	0.26	0.00	0.76	24	0	71	112.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.06	0.00	0.20	6	0	18	116.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.64	0.28	1.08	60	27	101	31.7%	4
2019-M10-S01	2.92	0.66	5.54	272	61	514	38.8%	2
2019-M11-S01	2.29	0.57	4.08	213	53	379	41.5%	2
2019-M12-S01	1.85	0.00	3.85	171	0	357	56.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	1.00	0.02	2.70	94	2	251	86.2%	4
2020-M04-S01	3.36	1.75	5.19	312	163	483	28.9%	4

Table 11-0-304: Razorbill density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.05	0.00	0.15	5	0	14	85.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M09-S01	0.05	0.00	0.15	5	0	14	79.6%	4
2019-M10-S01	0.33	0.00	0.97	31	0	90	94.2%	2
2019-M11-S01	0.17	0.00	0.47	16	0	44	81.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.11	0.00	0.23	10	0	22	59.8%	4

Table 11-0-305: Razorbill density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.08	0.00	0.22	8	0	21	85.6%	4
2018-M10-S01	3.59	1.32	6.18	333	122	573	29.7%	2
2018-M11-S01	3.59	1.04	6.45	333	96	598	35.1%	2
2018-M12-S01	0.39	0.00	0.95	36	0	88	69.4%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.33	0.00	0.68	31	0	63	52.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.08	0.00	0.19	8	0	18	60.0%	4
2019-M05-S01	0.21	0.00	0.62	20	0	58	91.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.16	5	0	15	87.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.48	0.23	0.76	45	22	71	29.2%	4
2019-M10-S01	2.21	0.56	3.89	205	52	361	37.6%	2
2019-M11-S01	1.80	0.49	3.07	168	45	285	36.4%	2
2019-M12-S01	1.57	0.00	3.28	146	0	304	46.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.82	0.02	2.21	77	2	205	74.8%	4
2020-M04-S01	2.66	1.43	4.06	247	133	377	25.7%	4

Table 11-0-306: Red-throated diver density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.32	10	0	30	92.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	1.57	0.00	4.44	146	0	412	78.7%	4
2019-M04-S01	0.11	0.00	0.25	11	0	24	59.0%	4
2019-M04-S02	0.11	0.00	0.24	10	0	22	57.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.11	0.00	0.32	10	0	30	85.3%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.11	0.00	0.33	10	0	31	93.1%	2
2020-M03-S01	0.06	0.00	0.15	6	0	14	80.8%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-307: Red-throated diver density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.11	0.00	0.33	10	0	31	98.3%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-308: Red-throated diver density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

*Table 11-0-309: Sandwich tern density and abundance estimates at SEP by survey – all birds (design-based density and abundance estimates) Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.53	0.21	0.86	50	20	80	30.4%	4
2018-M06-S01	0.05	0.00	0.15	6	0	15	79.5%	4
2018-M07-S01	1.12	0.28	2.11	**105**	**27**	**196**	43.2%	4
2018-M08-S01	0.05	0.00	0.15	5	0	15	84.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.05	0.00	0.15	5	0	14	81.4%	4
2019-M05-S01	0.20	0.00	0.42	19	0	40	51.2%	4
2019-M05-S02	0.39	0.16	0.61	**36**	**15**	**57**	29.4%	4
2019-M06-S01	0.32	0.09	0.55	30	9	52	38.5%	4
2019-M06-S02	0.32	0.10	0.58	31	10	54	36.2%	4
2019-M07-S01	0.11	0.00	0.21	11	0	20	49.0%	4
2019-M07-S02	0.07	0.00	0.20	7	0	19	83.4%	4
2019-M08-S01	0.05	0.00	0.16	6	0	15	91.1%	4
2019-M08-S02	0.07	0.00	0.22	7	0	21	88.1%	4
2019-M09-S01	0.05	0.00	0.15	**5**	**0**	**15**	89.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

*Table 11-0-310: Sandwich tern density and abundance estimates at SEP by survey – all birds (model-based density and abundance estimates). Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.68	0.39	1.15	63	36	106	30.1%	4
2018-M06-S01	0.56	0.18	1.31	52	17	121	59.4%	4
2018-M07-S01	1.84	1.37	2.43	**170**	**127**	**225**	22.0%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.05	0.01	0.18	4	1	16	126.0 %	4
2019-M04-S02	0.05	0.01	0.19	4	1	17	128.1 %	4
2019-M05-S01	0.26	0.15	0.42	24	13	39	28.7%	4
2019-M05-S02	0.26	0.14	0.42	24	13	39	29.1%	4
2019-M06-S01	0.37	0.16	0.75	**35**	**15**	**69**	37.6%	4
2019-M06-S02	0.36	0.16	0.69	33	15	64	36.4%	4
2019-M07-S01	0.12	0.05	0.25	12	5	23	42.8%	4
2019-M07-S02	0.12	0.05	0.25	11	5	23	41.7%	4
2019-M08-S01	0.07	0.02	0.19	6	1	18	77.1%	4
2019-M08-S02	0.07	0.02	0.19	6	2	17	77.1%	4
2019-M09-S01	0.08	0.02	0.21	7	2	19	336.2 %	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-311: Sandwich tern density and abundance estimates at SEP by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.53	0.21	0.86	50	20	80	30.4%	4
2018-M06-S01	0.05	0.00	0.15	6	0	15	79.5%	4
2018-M07-S01	1.12	0.28	2.11	105	27	196	43.2%	4
2018-M08-S01	0.05	0.00	0.15	5	0	15	84.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.05	0.00	0.15	5	0	14	81.4%	4
2019-M05-S01	0.20	0.00	0.42	19	0	40	51.2%	4
2019-M05-S02	0.39	0.16	0.61	36	15	57	29.4%	4
2019-M06-S01	0.32	0.09	0.55	30	9	52	38.5%	4
2019-M06-S02	0.32	0.10	0.58	31	10	54	36.2%	4
2019-M07-S01	0.11	0.00	0.21	11	0	20	49.0%	4
2019-M07-S02	0.07	0.00	0.20	7	0	19	83.4%	4
2019-M08-S01	0.05	0.00	0.16	6	0	15	91.1%	4
2019-M08-S02	0.07	0.00	0.22	7	0	21	88.1%	4
2019-M09-S01	0.05	0.00	0.15	5	0	15	89.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-312: Sandwich tern density and abundance estimates at SEP by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-313: Shag density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-314: Shelduck density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-315: Tufted duck density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-316: Woodpigeon density and abundance estimates at SEP by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.5.5 SEP + 2km Buffer

Table 11-0-317: Arctic skua density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-318: Arctic tern density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.00	0.08	6	0	18	101.0%	4
2019-M05-S01	0.01	0.00	0.01	2	0	3	80.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-319: Arctic tern density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.00	0.08	6	0	18	93.3%	4
2019-M05-S01	0.00	0.00	0.01	2	0	3	83.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-320: Arctic tern density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-321: Black-headed gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.07	5	0	15	90.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.18	0.02	0.35	37	5	73	46.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.10	0.00	0.23	21	1	49	66.4%	4
2019-M09-S01	0.02	0.00	0.07	6	0	15	85.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.14	0.00	0.42	30	0	87	94.4%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-322: Black-headed gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.07	5	0	15	89.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.17	0.02	0.35	36	5	73	49.3%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	5	0	15	90.6%	4
2019-M09-S01	0.02	0.00	0.07	5	0	15	90.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.14	0.00	0.42	29	0	87	93.6%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-323: Black-headed gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.08	0.00	0.21	16	0	44	82.1%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-324: Common gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.08	5	0	18	99.5%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.05	0.00	0.11	11	0	23	57.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.09	0.00	0.18	20	0	38	46.1%	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	90.2%	4
2019-M04-S02	0.00	0.00	0.01	1	0	2	90.5%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	91.9%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	86.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.10	0.00	0.29	21	0	60	61.9%	2
2019-M12-S01	0.15	0.04	0.32	32	9	66	59.4%	2
2020-M01-S01	0.17	0.00	0.43	36	0	90	63.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.12	0.02	0.25	25	5	52	50.3%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-325: Common gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.07	6	0	15	98.2%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.05	0.00	0.11	11	0	24	59.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.10	0.00	0.18	21	0	38	44.2%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.05	0.00	0.14	10	0	29	88.2%	2
2019-M12-S01	0.10	0.00	0.23	21	0	48	65.4%	2
2020-M01-S01	0.14	0.00	0.34	31	0	70	64.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.12	0.02	0.24	26	5	49	48.0%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-326: Common gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	90.4%	4
2019-M04-S02	0.00	0.00	0.01	1	0	2	89.0%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	90.0%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	88.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.05	0.00	0.15	10	0	31	130.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-327: Common scoter density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.10	0.00	0.27	20	0	58	86.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-328: Common scoter density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.09	0.00	0.28	20	0	59	89.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-329: Common scoter density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-330: Common tern density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.00	0.00	0.00	1	0	1	64.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.12	0.00	0.34	25	0	70	91.8%	4
2019-M05-S01	0.17	0.00	0.42	35	0	88	73.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.12	0.00	0.27	26	0	57	59.1%	4
2019-M06-S02	0.05	0.00	0.11	10	0	24	64.5%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.22	0.01	0.53	46	2	111	65.1%	4
2019-M09-S01	0.03	0.00	0.07	6	0	16	76.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-331: Common tern density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.00	0.00	0.00	1	0	1	64.2%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.12	0.00	0.34	26	0	71	91.4%	4
2019-M05-S01	0.17	0.00	0.42	35	0	88	71.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.12	0.00	0.26	25	0	54	57.1%	4
2019-M06-S02	0.05	0.00	0.11	10	0	24	64.0%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.21	0.01	0.52	43	2	108	67.7%	4
2019-M09-S01	0.03	0.00	0.08	6	0	16	77.2%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-332: Common tern density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-333: Cormorant density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-334: Fulmar density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	5	0	15	92.1%	4
2018-M06-S01	0.02	0.00	0.08	5	0	18	100.9%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.07	6	0	15	90.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.08	0.00	0.20	18	0	41	61.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.07	5	0	15	95.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.19	0.00	0.65	40	0	135	86.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.09	8	0	18	61.2%	4
2019-M09-S01	0.05	0.00	0.12	11	0	25	69.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.05	0.00	0.14	10	0	30	93.4%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.07	5	0	15	91.9%	4
2020-M04-S01	0.02	0.00	0.07	5	0	15	100.1%	4

Table 11-0-335: Fulmar density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	5	0	15	94.0%	4
2018-M06-S01	0.02	0.00	0.07	5	0	15	97.1%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.07	6	0	15	88.7%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.08	0.00	0.20	18	0	43	63.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.12	0.00	0.36	26	0	75	76.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.00	0.12	11	0	25	66.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.05	0.00	0.14	11	0	30	96.7%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-336: Fulmar density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.07	5	0	15	93.3%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.08	0.00	0.27	16	0	57	99.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.08	8	0	17	59.8%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.07	6	0	15	90.3%	4
2020-M04-S01	0.02	0.00	0.07	5	0	15	95.1%	4

*Table 11-0-337: Gannet density and abundance estimates at SEP + 2 km buffer by survey – all birds. Values in **red** indicate peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	5	0	15	88.4%	4
2018-M06-S01	0.02	0.00	0.07	6	0	15	89.9%	4
2018-M07-S01	0.07	0.00	0.18	15	0	38	69.6%	4
2018-M08-S01	0.10	0.00	0.21	**20**	**0**	**45**	54.2%	4
2018-M09-S01	0.02	0.00	0.07	5	0	15	88.0%	4
2018-M10-S01	0.05	0.00	0.14	10	0	29	88.1%	2
2018-M11-S01	2.35	1.64	3.33	**489**	**341**	**694**	18.7%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.05	0.00	0.13	**10**	**0**	**28**	83.1%	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	87.9%	4
2019-M04-S02	0.07	0.00	0.16	15	0	35	63.5%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.05	0.00	0.11	10	0	24	63.9%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.07	0.02	0.13	15	5	27	40.8%	4
2019-M08-S01	0.05	0.00	0.14	10	0	29	88.3%	4
2019-M08-S02	0.10	0.02	0.20	20	5	43	51.3%	4
2019-M09-S01	0.12	0.02	0.23	**25**	**5**	**48**	43.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.48	0.21	0.76	**100**	**44**	**158**	29.2%	2
2019-M12-S01	0.05	0.00	0.14	10	0	30	95.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.05	0.00	0.14	**10**	**0**	**30**	96.1%	2
2020-M03-S01	0.02	0.00	0.07	5	0	15	97.9%	4
2020-M04-S01	0.05	0.00	0.11	10	0	22	57.6%	4

Table 11-0-338: Gannet density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.07	0.00	0.18	15	0	37	70.6%	4
2018-M08-S01	0.02	0.00	0.07	6	0	15	90.2%	4
2018-M09-S01	0.02	0.00	0.07	6	0	15	84.5%	4
2018-M10-S01	0.05	0.00	0.14	11	0	30	88.6%	2
2018-M11-S01	0.80	0.28	1.53	166	58	318	41.3%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	92.8%	4
2019-M04-S02	0.05	0.00	0.11	10	0	23	61.8%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.07	5	0	15	93.5%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.07	5	0	15	90.5%	4
2019-M08-S01	0.02	0.00	0.07	5	0	15	91.5%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.12	0.02	0.23	26	5	49	43.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.14	0.00	0.30	29	0	62	52.3%	2
2019-M12-S01	0.05	0.00	0.15	11	0	31	99.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.05	0.00	0.14	10	0	30	97.3%	2
2020-M03-S01	0.02	0.00	0.09	5	0	19	101.4%	4
2020-M04-S01	0.05	0.00	0.10	10	0	22	54.6%	4

Table 11-0-339: Gannet density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	5	0	15	92.1%	4
2018-M06-S01	0.02	0.00	0.07	5	0	15	93.1%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.07	0.00	0.18	15	0	39	67.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	1.54	1.20	1.91	321	250	398	11.8%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.05	0.00	0.14	10	0	30	84.7%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.07	5	0	15	94.3%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.05	0.00	0.10	10	0	20	55.5%	4
2019-M08-S01	0.02	0.00	0.07	5	0	15	89.6%	4
2019-M08-S02	0.09	0.02	0.20	20	5	42	50.2%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.34	0.13	0.61	71	28	126	35.9%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-340: Golden plover density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.12	0.00	0.35	26	0	73	86.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-341: Golden plover density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.13	0.00	0.35	27	0	74	86.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-342: Golden plover density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-343: Great black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	3	0	8	85.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	2	0	4	86.2%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.15	0.00	0.34	31	0	71	62.1%	2
2018-M11-S01	0.72	0.24	1.23	149	50	256	30.9%	2
2018-M12-S01	0.63	0.05	1.41	131	10	294	58.3%	2
2019-M01-S01	0.05	0.00	0.14	10	0	30	87.7%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.15	14	0	31	58.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.01	0.00	0.03	2	0	6	94.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	5	0	15	86.2%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.48	0.19	0.80	100	40	167	32.9%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.11	0.00	0.27	23	0	57	69.6%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.09	10	0	20	56.8%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-344: Great black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.23	20	0	47	61.4%	2
2018-M11-S01	0.24	0.05	0.48	50	10	100	46.4%	2
2018-M12-S01	0.58	0.05	1.34	120	10	279	63.1%	2
2019-M01-S01	0.05	0.00	0.14	10	0	30	92.4%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.00	0.00	0.01	1	0	2	100.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.34	0.19	0.48	71	39	100	23.1%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.05	0.00	0.14	10	0	30	96.1%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.09	10	0	20	56.3%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-345: Great black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	3	0	8	86.4%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	2	0	4	92.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.05	0.00	0.14	10	0	29	89.5%	2
2018-M11-S01	0.44	0.13	0.81	91	28	168	35.2%	2
2018-M12-S01	0.05	0.00	0.14	10	0	30	87.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.07	0.00	0.16	14	0	33	60.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.00	0.00	0.01	1	0	3	97.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	5	0	15	89.9%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.14	0.00	0.34	29	0	70	61.7%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.10	0.00	0.28	21	0	59	61.9%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-346: Great crested grebe density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-347 Great skua density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

*Table 11-0-348 Guillemot density and abundance estimates at SEP + 2 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.42	0.79	2.12	297	163	443	24.2%	4
2018-M06-S01	0.18	0.09	0.30	39	18	62	33.3%	4
2018-M07-S01	0.12	0.00	0.30	26	0	63	73.1%	4
2018-M08-S01	1.70	0.45	3.28	354	95	682	46.3%	4
2018-M09-S01	0.37	0.20	0.53	76	41	111	26.3%	4
2018-M10-S01	**5.13**	**3.51**	**6.82**	**1068**	**730**	**1418**	15.6%	2
2018-M11-S01	3.41	2.30	4.74	709	478	988	20.1%	2
2018-M12-S01	1.69	0.99	2.45	353	205	510	21.6%	2
2019-M01-S01	0.71	0.22	1.37	148	46	285	43.0%	2
2019-M02-S01	1.43	0.98	2.06	298	203	428	18.0%	2
2019-M03-S01	0.18	0.07	0.28	39	13	59	30.8%	4
2019-M04-S01	0.13	0.03	0.25	28	7	53	46.4%	4
2019-M04-S02	1.62	1.13	2.29	338	237	476	16.9%	4
2019-M05-S01	**4.48**	**2.80**	**6.55**	**932**	**583**	**1361**	22.8%	4
2019-M05-S02	0.32	0.18	0.42	65	38	88	21.5%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.68	0.37	1.05	144	78	221	29.2%	4
2019-M06-S02	0.12	0.00	0.30	26	0	65	76.9%	4
2019-M07-S01	0.09	0.01	0.20	20	5	42	55.0%	4
2019-M07-S02	0.09	0.00	0.22	20	0	47	70.0%	4
2019-M08-S01	0.13	0.03	0.25	28	7	53	50.0%	4
2019-M08-S02	0.12	0.00	0.30	26	0	63	73.1%	4
2019-M09-S01	3.44	2.44	4.54	715	507	947	17.3%	4
2019-M10-S01	**5.29**	**2.84**	**8.27**	**1101**	**592**	**1720**	24.3%	2
2019-M11-S01	1.48	0.77	2.43	308	160	506	23.8%	2
2019-M12-S01	1.74	0.84	2.85	361	176	593	28.8%	2
2020-M01-S01	0.30	0.06	0.59	63	12	124	41.5%	2
2020-M02-S01	0.47	0.11	1.00	98	24	209	52.0%	2
2020-M03-S01	**6.04**	**2.41**	**11.42**	**1257**	**500**	**2374**	43.3%	4
2020-M04-S01	4.13	2.89	5.43	861	601	1131	16.3%	4

Table 11-0-349: Guillemot density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.00	0.11	11	0	24	61.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.05	0.00	0.14	11	0	30	86.2%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.05	0.00	0.14	10	0	30	94.0%	4
2019-M05-S01	0.06	0.00	0.14	12	0	29	63.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.23	0.00	0.65	47	0	136	80.9%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.02	0.00	0.07	5	0	15	95.6%	4
2020-M04-S01	0.09	0.02	0.19	20	5	39	45.6%	4

Table 11-0-350: Guillemot density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.04	0.60	1.53	217	124	318	23.0%	4
2018-M06-S01	0.14	0.07	0.23	30	14	47	29.6%	4
2018-M07-S01	0.09	0.00	0.23	20	0	48	64.9%	4
2018-M08-S01	1.29	0.34	2.49	269	72	518	42.7%	4
2018-M09-S01	0.28	0.15	0.40	58	31	84	24.1%	4
2018-M10-S01	4.10	2.83	5.39	854	590	1122	13.5%	2
2018-M11-S01	2.75	1.85	3.83	573	386	798	17.5%	2
2018-M12-S01	1.37	0.80	1.98	285	166	412	18.9%	2
2019-M01-S01	0.58	0.18	1.11	120	37	230	37.5%	2
2019-M02-S01	1.16	0.79	1.66	241	164	346	15.8%	2
2019-M03-S01	0.14	0.05	0.21	30	10	45	28.6%	4
2019-M04-S01	0.10	0.02	0.19	21	5	40	44.6%	4
2019-M04-S02	1.19	0.86	1.63	249	180	339	16.6%	4
2019-M05-S01	3.36	2.13	4.87	699	443	1012	21.3%	4
2019-M05-S02	0.24	0.14	0.32	49	29	67	19.9%	4
2019-M06-S01	0.52	0.28	0.80	109	59	168	26.4%	4
2019-M06-S02	0.09	0.00	0.23	20	0	49	69.6%	4
2019-M07-S01	0.07	0.01	0.15	15	4	32	50.9%	4
2019-M07-S02	0.07	0.00	0.17	15	0	36	62.9%	4
2019-M08-S01	0.10	0.02	0.19	21	5	40	46.6%	4
2019-M08-S02	0.09	0.00	0.23	20	0	48	64.4%	4
2019-M09-S01	2.61	1.85	3.45	543	385	719	16.0%	4
2019-M10-S01	4.28	2.30	6.68	890	478	1390	21.5%	2
2019-M11-S01	1.01	0.62	1.44	211	129	299	19.9%	2
2019-M12-S01	1.40	0.68	2.30	292	142	479	25.7%	2
2020-M01-S01	0.25	0.05	0.48	51	10	100	35.3%	2
2020-M02-S01	0.38	0.09	0.81	79	19	169	45.6%	2
2020-M03-S01	4.57	1.83	8.62	951	380	1792	39.9%	4
2020-M04-S01	3.07	2.18	3.98	639	453	829	14.9%	4

Table 11-0-351: Herring gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.07	5	0	15	88.7%	4
2018-M09-S01	0.02	0.00	0.07	5	0	15	89.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.05	0.00	0.16	11	0	33	118.2%	2
2018-M12-S01	0.05	0.00	0.14	10	0	30	96.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.09	0.00	0.23	19	0	48	62.7%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	6	0	15	86.5%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.23	0.00	0.72	49	0	149	99.1%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.05	0.00	0.14	10	0	29	87.8%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.05	0.00	0.14	10	0	30	89.6%	2
2019-M12-S01	0.14	0.00	0.34	29	0	70	61.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-352: Herring gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.05	0.00	0.14	10	0	30	88.9%	2
2018-M12-S01	0.05	0.00	0.14	11	0	30	92.6%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.10	0.00	0.23	21	0	48	62.9%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	87.0%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.09	6	0	18	100.8%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.05	0.00	0.14	10	0	29	84.9%	2
2019-M12-S01	0.05	0.00	0.14	10	0	30	92.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-353: Herring gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.07	6	0	15	86.0%	4
2018-M09-S01	0.02	0.00	0.07	5	0	15	88.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.20	0.00	0.63	42	0	132	103.1%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.05	0.00	0.14	10	0	29	85.8%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.09	0.00	0.28	19	0	59	90.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-354: Kestrel density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-355: Kittiwake density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.19	0.00	0.55	41	0	116	84.7%	4
2018-M07-S01	0.03	0.00	0.09	6	0	19	99.6%	4
2018-M08-S01	0.08	0.00	0.21	16	0	43	82.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.14	0.00	0.44	30	0	91	103.3%	2
2018-M11-S01	0.51	0.17	0.86	107	36	179	41.1%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.05	0.00	0.14	10	0	30	90.7%	2
2019-M02-S01	0.05	0.00	0.15	10	0	31	130.0%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	96.2%	4
2019-M04-S02	0.07	0.00	0.20	15	0	41	89.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.05	0.00	0.11	11	0	23	55.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.03	0.00	0.07	6	0	15	82.7%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.29	0.00	0.73	60	0	152	71.2%	4
2019-M09-S01	0.92	0.45	1.45	192	95	301	28.0%	4
2019-M10-S01	0.15	0.04	0.28	31	9	59	44.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.29	0.09	0.55	61	19	115	45.9%	2
2020-M01-S01	0.06	0.00	0.17	12	0	36	108.3%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.14	10	0	29	90.0%	4
2020-M04-S01	1.69	0.88	2.57	351	183	535	25.7%	4

Table 11-0-356: Kittiwake density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.34	20	0	71	99.6%	2
2018-M11-S01	0.23	0.09	0.37	47	18	78	36.2%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.05	0.00	0.14	10	0	29	91.7%	2
2019-M02-S01	0.05	0.00	0.14	11	0	29	86.7%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.05	0.00	0.11	11	0	23	54.5%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.73	0.33	1.18	153	69	247	30.4%	4
2019-M10-S01	0.05	0.00	0.14	10	0	29	89.5%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.19	0.00	0.49	41	0	102	68.3%	2
2020-M01-S01	0.05	0.00	0.14	11	0	30	93.6%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.71	0.42	1.00	149	88	208	20.4%	4

Table 11-0-357: Kittiwake density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.19	0.00	0.56	40	0	117	89.9%	4
2018-M07-S01	0.02	0.00	0.08	6	0	18	92.0%	4
2018-M08-S01	0.07	0.00	0.21	15	0	44	93.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.05	0.00	0.14	11	0	30	118.2%	2
2018-M11-S01	0.37	0.00	0.69	78	0	143	50.0%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	94.8%	4
2019-M04-S02	0.07	0.00	0.20	14	0	42	90.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.07	5	0	15	85.3%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.28	0.00	0.73	59	0	152	72.9%	4
2019-M09-S01	0.19	0.04	0.38	41	9	80	46.0%	4
2019-M10-S01	0.10	0.00	0.23	21	0	48	62.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.10	0.00	0.23	21	0	48	76.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.14	11	0	30	86.6%	4
2020-M04-S01	0.99	0.44	1.65	207	92	344	30.3%	4

Table 11-0-358: Knot density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-359 Lapwing density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-360: Lesser black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	3	0	8	92.1%	4
2018-M06-S01	0.02	0.00	0.07	5	0	15	88.0%	4
2018-M07-S01	0.11	0.00	0.22	24	0	47	49.9%	4
2018-M08-S01	0.28	0.02	0.74	58	5	154	74.9%	4
2018-M09-S01	0.02	0.00	0.07	6	0	15	89.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.07	5	0	15	90.8%	4
2019-M05-S01	0.33	0.00	0.90	69	0	188	78.8%	4
2019-M05-S02	0.02	0.00	0.07	6	0	15	96.9%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.07	0.00	0.16	15	0	34	59.2%	4
2019-M07-S01	0.88	0.00	2.82	183	0	587	86.8%	4
2019-M07-S02	0.05	0.00	0.11	10	0	22	57.5%	4
2019-M08-S01	0.02	0.00	0.07	6	0	15	84.0%	4
2019-M08-S02	0.13	0.02	0.28	27	5	58	55.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.05	0.00	0.14	10	0	30	91.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0.15	0.00	0.42	31	0	88	64.5%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-361: Lesser black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.07	6	0	15	85.7%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.07	0.02	0.13	15	5	28	41.1%	4
2018-M09-S01	0.02	0.00	0.07	6	0	15	87.7%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.02	0.00	0.07	5	0	15	89.9%	4
2019-M05-S01	0.03	0.00	0.10	7	0	21	96.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.07	0.00	0.16	15	0	34	59.0%	4
2019-M07-S01	0.16	0.04	0.30	33	9	63	48.8%	4
2019-M07-S02	0.02	0.00	0.07	6	0	15	87.0%	4
2019-M08-S01	0.02	0.00	0.07	6	0	15	86.3%	4
2019-M08-S02	0.05	0.00	0.11	10	0	23	55.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-362: Lesser black-backed gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	3	0	8	90.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.11	0.02	0.23	24	5	49	49.1%	4
2018-M08-S01	0.19	0.00	0.55	39	0	115	87.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.30	0.00	0.89	64	0	186	90.0%	4
2019-M05-S02	0.02	0.00	0.07	6	0	15	96.3%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.67	0.00	2.11	140	0	439	100.6%	4
2019-M07-S02	0.02	0.00	0.07	6	0	15	89.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.08	0.00	0.19	18	0	41	62.7%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.05	0.00	0.14	10	0	30	90.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-363: Little gull density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.29	21	0	61	104.8%	2
2018-M11-S01	0.70	0.25	1.16	145	53	242	32.4%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.06	5	0	13	92.7%	4
2019-M10-S01	0.29	0.10	0.49	60	20	102	35.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.05	0.00	0.15	11	0	31	127.3%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-364: Little gull density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.40	0.14	0.68	84	29	142	29.8%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.06	5	0	13	87.2%	4
2019-M10-S01	0.14	0.05	0.27	29	10	56	42.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-365: Little gull density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.35	20	0	72	110.0%	2
2018-M11-S01	0.21	0.00	0.45	43	0	94	88.4%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.14	0.00	0.34	29	0	70	60.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0.05	0.00	0.15	10	0	31	140.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-366: Little tern density and abundance estimates at SEP + 2km by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-367: Long-tailed skua density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 31-0-368: Manx shearwater density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.10	0.00	0.29	21	0	61	104.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-369: Manx shearwater density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-370: Manx shearwater density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.10	0.00	0.29	20	0	61	110.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-371: Oystercatcher density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.00	0.07	5	0	15	89.2%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-372: Oystercatcher density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.00	0.07	5	0	15	88.2%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-373: Oystercatcher density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-374: Pomarine skua density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-375: Puffin density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.00	0.00	0.01	1	0	2	100.0%	4
2018-M09-S01	0.00	0.00	0.01	1	0	3	100.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M05-S01	0.08	0.00	0.24	19	0	50	100.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.06	0.00	0.13	12	0	28	83.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.01	0.12	14	3	24	50.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.10	0.00	0.21	21	0	44	61.9%	4
2020-M04-S01	0.00	0.00	0.01	1	0	2	100.0%	4

Table 11-0-376: Puffin density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-377: Puffin density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.00	0.00	0.01	1	0	2	91.1%	4
2018-M09-S01	0.00	0.00	0.01	1	0	3	92.5%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	86.5%	4
2019-M05-S01	0.07	0.00	0.21	16	0	43	84.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.05	0.00	0.11	10	0	24	67.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.01	0.10	12	3	21	39.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.00	0.18	18	0	38	52.9%	4
2020-M04-S01	0.00	0.00	0.01	1	0	2	84.3%	4

*Table 11-0-378: Razorbill density and abundance estimates at SEP + 2 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.09	6	0	18	116.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.05	4	0	10	100.0%	4
2018-M09-S01	0.06	0.00	0.19	15	0	41	66.7%	4
2018-M10-S01	**3.62**	**1.82**	**5.56**	**754**	**379**	**1158**	27.9%	2
2018-M11-S01	**4.68**	**2.57**	**7.34**	**973**	**535**	**1529**	27.1%	2
2018-M12-S01	0.60	0.19	1.13	126	39	236	50.5%	2
2019-M01-S01	0.06	0.00	0.19	13	0	40	141.4%	2
2019-M02-S01	**0.50**	**0.11**	**0.99**	**103**	**23**	**207**	53.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.09	6	0	18	116.7%	4
2019-M04-S02	0.05	0.00	0.12	11	1	26	72.7%	4
2019-M05-S01	**0.21**	**0.04**	**0.39**	**44**	**9**	**83**	52.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.07	5	0	15	100.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.09	7	0	18	100.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M09-S01	0.84	0.34	1.40	176	72	291	37.5%	4
2019-M10-S01	**3.67**	**1.31**	**6.40**	**764**	**272**	**1331**	33.4%	2
2019-M11-S01	**1.91**	**0.69**	**3.34**	**398**	**143**	**695**	30.8%	2
2019-M12-S01	1.59	0.63	2.53	331	131	526	32.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.33	0.00	0.96	69	0	200	64.9%	2
2020-M03-S01	**0.89**	**0.13**	**1.88**	**185**	**28**	**392**	61.1%	4
2020-M04-S01	**2.82**	**1.94**	**3.64**	**587**	**403**	**759**	18.1%	4

Table 11-0-379: Razorbill density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.02	0.00	0.07	5	0	15	93.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.02	0.00	0.07	5	0	15	97.7%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.07	6	0	15	87.8%	4
2019-M10-S01	0.14	0.00	0.42	29	0	87	89.3%	2
2019-M11-S01	0.22	0.00	0.52	45	0	109	62.2%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.19	0.00	0.57	41	0	119	90.4%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.07	0.02	0.12	15	5	26	41.0%	4

Table 11-0-380 Razorbill density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.07	5	0	15	88.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	3	0	8	83.8%	4
2018-M09-S01	0.03	0.00	0.10	8	0	21	86.6%	4
2018-M10-S01	3.08	1.55	4.74	642	323	986	23.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	3.98	2.19	6.26	829	456	1302	22.8%	2
2018-M12-S01	0.51	0.16	0.97	107	33	201	42.1%	2
2019-M01-S01	0.05	0.00	0.16	11	0	34	118.2%	2
2019-M02-S01	0.42	0.10	0.85	88	20	176	44.3%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	89.5%	4
2019-M04-S02	0.04	0.00	0.10	9	1	21	58.8%	4
2019-M05-S01	0.17	0.03	0.32	36	7	68	42.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.02	0.00	0.07	6	0	15	89.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	83.7%	4
2019-M09-S01	0.67	0.28	1.09	139	59	226	31.9%	4
2019-M10-S01	3.01	1.11	5.09	626	232	1060	29.2%	2
2019-M11-S01	1.45	0.59	2.40	301	122	499	26.9%	2
2019-M12-S01	1.35	0.54	2.15	282	112	448	27.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.12	0.00	0.33	24	0	69	91.7%	2
2020-M03-S01	0.73	0.11	1.54	151	23	321	52.0%	4
2020-M04-S01	2.25	1.57	2.88	468	326	600	15.9%	4

Table 11-0-381: Red-throated diver density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.24	21	0	49	65.3%	2
2018-M11-S01	0.05	0.00	0.14	10	0	30	91.7%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	1.15	0.08	3.13	239	18	652	74.1%	4
2019-M04-S01	0.07	0.02	0.14	16	5	30	48.7%	4
2019-M04-S02	0.05	0.00	0.11	10	0	23	57.4%	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.10	0.00	0.24	21	0	49	104.8%	2
2019-M11-S01	0.19	0.00	0.53	40	0	111	75.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.05	0.00	0.14	10	0	30	92.1%	2
2020-M03-S01	0.05	0.00	0.10	10	0	22	56.4%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-382: Red-throated diver density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.09	0.00	0.23	19	0	48	63.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.05	0.00	0.14	10	0	30	90.5%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 0-383 Red-throated diver density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.10	0.00	0.24	21	0	50	66.6%	2
2018-M11-S01	0.05	0.00	0.14	10	0	30	94.2%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	1.14	0.08	2.95	237	18	614	73.1%	4
2019-M04-S01	0.07	0.02	0.14	15	5	31	49.0%	4
2019-M04-S02	0.05	0.00	0.11	10	0	23	57.8%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.20	0.00	0.54	42	0	113	75.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.00	0.10	10	0	22	55.0%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-384: Sandwich tern density and abundance estimates at SEP + 2 km buffer by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.64	0.35	0.97	134	74	202	24.0%	4
2018-M06-S01	0.43	0.07	0.85	89	15	176	46.6%	4
2018-M07-S01	1.61	0.50	3.14	335	105	654	45.4%	4
2018-M08-S01	0.05	0.00	0.14	11	0	30	88.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.03	0.00	0.07	6	0	15	85.3%	4
2019-M04-S02	0.07	0.02	0.14	15	5	29	44.4%	4
2019-M05-S01	0.17	0.05	0.31	36	11	64	39.3%	4
2019-M05-S02	0.38	0.18	0.63	79	37	132	31.4%	4
2019-M06-S01	0.38	0.15	0.69	80	31	144	37.4%	4
2019-M06-S02	0.38	0.18	0.61	79	38	128	30.2%	4
2019-M07-S01	0.07	0.02	0.13	15	5	28	44.2%	4
2019-M07-S02	0.06	0.00	0.15	14	0	31	59.1%	4
2019-M08-S01	0.02	0.00	0.07	6	0	15	87.8%	4
2019-M08-S02	0.05	0.00	0.13	11	0	27	66.5%	4
2019-M09-S01	0.07	0.00	0.16	15	0	34	60.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-385: Sandwich tern density and abundance estimates at SEP + 2 km buffer by survey – all birds (model-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.62	0.35	1.04	129	74	216	29.7%	4
2018-M06-S01	0.50	0.17	1.16	105	35	241	57.8%	4
2018-M07-S01	1.78	1.34	2.34	369	278	487	23.4%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.05	0.01	0.19	11	2	38	116.4%	4
2019-M04-S02	0.06	0.01	0.20	11	2	41	120.1%	4
2019-M05-S01	0.26	0.15	0.42	53	30	87	28.6%	4
2019-M05-S02	0.26	0.14	0.42	53	30	88	29.3%	4
2019-M06-S01	0.36	0.17	0.67	74	35	138	35.1%	4
2019-M06-S02	0.34	0.17	0.63	72	34	132	34.8%	4
2019-M07-S01	0.11	0.05	0.23	23	10	47	43.2%	4
2019-M07-S02	0.11	0.05	0.22	23	10	46	42.0%	4
2019-M08-S01	0.07	0.02	0.20	15	4	41	75.8%	4
2019-M08-S02	0.07	0.02	0.19	15	4	40	75.5%	4
2019-M09-S01	0.10	0.03	0.26	21	7	53	300.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-386: Sandwich tern density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.65	0.35	0.96	135	74	199	24.3%	4
2018-M06-S01	0.43	0.09	0.83	90	19	172	44.5%	4
2018-M07-S01	1.57	0.52	3.09	327	108	643	43.5%	4
2018-M08-S01	0.05	0.00	0.14	10	0	30	90.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.07	5	0	15	90.8%	4
2019-M04-S02	0.07	0.02	0.13	16	5	28	43.3%	4
2019-M05-S01	0.17	0.05	0.30	35	11	63	39.2%	4
2019-M05-S02	0.38	0.17	0.63	79	35	131	31.0%	4
2019-M06-S01	0.37	0.15	0.68	78	32	142	37.0%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0.38	0.19	0.61	79	40	128	29.2%	4
2019-M07-S01	0.07	0.02	0.13	15	5	28	43.5%	4
2019-M07-S02	0.06	0.00	0.14	13	0	30	61.4%	4
2019-M08-S01	0.02	0.00	0.07	6	0	15	88.4%	4
2019-M08-S02	0.05	0.00	0.12	11	0	26	67.0%	4
2019-M09-S01	0.07	0.00	0.16	15	0	35	60.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-387: Sandwich tern density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-388: Shag density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-389: Shelduck density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-390: Tufted duck density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-391: Woodpigeon density and abundance estimates at SEP + 2 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.05	0.00	0.14	10	0	30	88.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-392: Woodpigeon density and abundance estimates at SEP + 2 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.05	0.00	0.14	10	0	29	86.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 0-393 Woodpigeon density and abundance estimates at SEP + 2 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.5.6 SEP + 4km Buffer

Table 11-0-394: Arctic skua density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-395: Arctic tern density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.10	14	0	35	73.7%	4
2019-M05-S01	0.01	0.00	0.02	3	1	6	44.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-396: Arctic tern density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.04	0.00	0.11	14	0	38	75.3%	4
2019-M05-S01	0.01	0.00	0.02	3	1	6	44.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-397 Arctic tern density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-398 Black-headed gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.04	6	0	15	90.8%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.19	0.05	0.36	67	16	125	42.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.40	0.07	0.76	141	25	265	44.2%	4
2019-M09-S01	0.01	0.00	0.04	5	0	15	92.5%	4
2019-M10-S01	0.03	0.00	0.11	12	0	37	158.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.10	0.00	0.28	35	0	98	82.9%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-399 Black-headed gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.04	5	0	15	90.6%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.20	0.06	0.39	70	20	135	41.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.26	0.05	0.54	92	19	189	47.9%	4
2019-M09-S01	0.02	0.00	0.04	6	0	15	82.0%	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	92.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.10	0.00	0.27	35	0	95	81.4%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-400 Black-headed gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.14	0.00	0.32	51	2	111	57.0%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-401 Common gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.05	6	0	18	95.6%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.00	0.07	11	0	25	61.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.06	0.00	0.11	21	0	39	47.4%	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	87.1%	4
2019-M04-S02	0.06	0.01	0.12	21	5	42	47.6%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.03	0.00	0.07	10	0	24	61.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.07	0.00	0.15	24	1	52	60.4%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	85.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.06	0.00	0.17	21	0	60	61.9%	2
2019-M12-S01	0.16	0.03	0.33	56	10	116	60.7%	2
2020-M01-S01	0.11	0.00	0.30	40	0	104	75.0%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.03	0.16	30	10	56	42.5%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-402: Common gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.04	6	0	16	96.4%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.00	0.07	11	0	25	59.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.06	0.00	0.11	20	0	37	47.5%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.00	0.08	10	0	29	92.4%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.03	0.00	0.06	10	0	23	59.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.08	13	0	29	58.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.03	0.00	0.09	10	0	30	88.3%	2
2019-M12-S01	0.12	0.00	0.25	41	0	88	55.3%	2
2020-M01-S01	0.10	0.00	0.25	34	0	87	67.6%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.09	0.03	0.17	30	9	59	44.7%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-403: Common gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.00	1	0	1	91.3%	4
2019-M04-S02	0.03	0.00	0.07	12	1	26	58.5%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.03	0.00	0.08	11	0	30	88.7%	4
2019-M09-S01	0.00	0.00	0.00	1	0	1	88.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.03	0.00	0.09	11	0	31	190.9%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-404: Common scoter density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.00	0.16	20	0	57	85.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.06	0.00	0.17	21	0	59	92.4%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-405: Common scoter density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.00	0.16	20	0	57	88.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.06	0.00	0.17	21	0	60	92.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 31-0-406: Common scoter density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-407: Common tern density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.05	6	1	19	99.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.09	0.00	0.24	33	0	83	70.6%	4
2019-M05-S01	0.16	0.03	0.30	56	12	106	44.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.16	0.07	0.26	55	24	92	33.2%	4
2019-M06-S02	0.03	0.00	0.07	10	0	24	63.3%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.20	0.01	0.43	68	3	152	55.8%	4
2019-M09-S01	0.03	0.00	0.07	11	0	25	58.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-408: Common tern density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	5	1	16	98.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.09	0.00	0.23	33	0	82	72.7%	4
2019-M05-S01	0.15	0.03	0.31	54	12	107	45.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.16	0.06	0.27	55	20	94	34.8%	4
2019-M06-S02	0.03	0.00	0.07	10	0	24	63.4%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.19	0.01	0.44	68	4	153	55.5%	4
2019-M09-S01	0.03	0.00	0.07	11	0	25	61.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-409: Common tern density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-410: Cormorant density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-411: Fulmar density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	6	0	16	93.0%	4
2018-M06-S01	0.02	0.00	0.04	6	0	16	91.0%	4
2018-M07-S01	0.03	0.00	0.07	10	0	25	65.3%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.04	5	0	16	94.4%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.11	17	0	40	61.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.04	5	0	15	91.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.13	0.01	0.34	47	5	119	72.8%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	8	0	17	61.1%	4
2019-M09-S01	0.04	0.01	0.10	15	5	34	53.6%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.07	0.00	0.17	24	0	59	95.8%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.04	0.00	0.11	15	0	38	68.8%	4
2020-M04-S01	0.01	0.00	0.04	5	0	15	94.5%	4

Table 11-0-412: Fulmar density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	5	0	15	94.6%	4
2018-M06-S01	0.01	0.00	0.04	6	0	16	96.5%	4
2018-M07-S01	0.01	0.00	0.04	5	0	15	95.2%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.04	6	0	16	90.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.05	0.00	0.11	18	0	40	61.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.09	0.01	0.21	31	5	72	62.1%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.00	0.09	15	0	33	53.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.07	0.00	0.15	23	0	53	69.6%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.10	11	0	36	94.0%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-413: Fulmar density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.05	6	0	19	99.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.04	5	0	15	93.4%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.04	0.00	0.13	16	0	47	95.2%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.05	8	0	19	65.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.04	5	0	15	90.0%	4
2020-M04-S01	0.01	0.00	0.04	6	0	15	93.3%	4

Table 11-0-414: Gannet density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	6	0	15	92.3%	4
2018-M06-S01	0.01	0.00	0.04	6	0	15	88.0%	4
2018-M07-S01	0.07	0.01	0.15	26	5	53	48.2%	4
2018-M08-S01	0.09	0.01	0.19	30	5	66	55.0%	4
2018-M09-S01	0.08	0.00	0.21	27	0	74	73.2%	4
2018-M10-S01	0.03	0.00	0.09	10	0	30	90.1%	2
2018-M11-S01	2.18	1.77	2.71	760	616	946	11.1%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.06	0.00	0.17	21	0	60	96.9%	2
2019-M03-S01	0.03	0.00	0.08	11	0	28	84.4%	4
2019-M04-S01	0.04	0.00	0.12	15	0	44	90.0%	4
2019-M04-S02	0.06	0.01	0.13	21	5	45	51.2%	4
2019-M05-S01	0.02	0.00	0.05	7	0	18	86.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.03	0.00	0.07	11	0	24	60.5%	4
2019-M06-S02	0.01	0.00	0.04	6	0	15	85.5%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.09	0.04	0.14	30	14	49	31.4%	4
2019-M08-S01	0.04	0.00	0.10	15	0	35	63.8%	4
2019-M08-S02	0.09	0.03	0.16	31	9	58	43.1%	4
2019-M09-S01	0.31	0.12	0.56	109	41	196	37.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.63	0.40	0.87	220	140	302	18.7%	2
2019-M12-S01	0.03	0.00	0.09	10	0	30	94.1%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.11	0.00	0.30	38	0	104	73.7%	2
2020-M03-S01	0.01	0.00	0.04	5	0	15	92.3%	4
2020-M04-S01	0.12	0.04	0.22	44	14	76	37.5%	4

Table 11-0-415: Gannet density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.04	0.00	0.11	16	0	39	68.2%	4
2018-M08-S01	0.03	0.00	0.07	11	0	25	62.0%	4
2018-M09-S01	0.07	0.00	0.19	26	0	66	70.6%	4
2018-M10-S01	0.03	0.00	0.09	10	0	30	91.6%	2
2018-M11-S01	0.81	0.48	1.24	282	168	433	24.4%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.06	0.00	0.17	20	0	60	96.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.04	0.00	0.13	15	0	44	87.9%	4
2019-M04-S02	0.04	0.01	0.08	15	5	30	48.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.04	6	0	15	92.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0.01	0.00	0.04	5	0	15	86.1%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.04	5	0	15	94.4%	4
2019-M08-S01	0.01	0.00	0.04	6	0	15	88.3%	4
2019-M08-S02	0.03	0.00	0.10	10	0	35	100.8%	4
2019-M09-S01	0.25	0.10	0.45	89	34	158	35.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.31	0.16	0.48	108	56	167	25.9%	2
2019-M12-S01	0.03	0.00	0.09	11	0	30	90.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.12	0.00	0.31	42	0	109	75.5%	2
2020-M03-S01	0.01	0.00	0.04	6	0	15	93.4%	4
2020-M04-S01	0.10	0.03	0.18	35	10	63	39.5%	4

Table 11-0-416: Gannet density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	5	0	16	93.5%	4
2018-M06-S01	0.01	0.00	0.04	6	0	15	92.7%	4
2018-M07-S01	0.03	0.00	0.08	10	0	30	92.5%	4
2018-M08-S01	0.06	0.00	0.15	21	0	54	73.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	1.35	1.05	1.61	470	366	562	10.6%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.03	0.00	0.08	10	0	28	83.9%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.04	6	0	15	92.2%	4
2019-M05-S01	0.02	0.00	0.05	6	0	17	87.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.07	0.03	0.13	25	9	45	39.5%	4
2019-M08-S01	0.03	0.00	0.07	10	0	24	62.4%	4
2019-M08-S02	0.06	0.00	0.12	21	0	43	49.6%	4
2019-M09-S01	0.06	0.00	0.12	21	0	43	53.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.29	0.11	0.49	101	38	170	34.1%	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.03	0.00	0.08	11	0	30	87.0%	4

Table 11-0-417: Golden plover density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.07	0.00	0.22	26	0	76	90.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.04	5	0	15	87.3%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-418: Golden plover density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.07	0.00	0.22	26	0	76	92.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.04	5	0	15	88.9%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-419: Golden plover density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-420: Great black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	8	90.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	2	0	4	90.1%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.21	31	0	72	64.3%	2
2018-M11-S01	0.63	0.22	1.09	219	78	380	32.9%	2
2018-M12-S01	0.38	0.03	0.86	132	10	300	59.7%	2
2019-M01-S01	0.06	0.00	0.13	21	0	46	57.9%	2
2019-M02-S01	0.03	0.00	0.09	10	0	30	97.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.04	0.00	0.09	14	0	31	59.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	7	0	19	79.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.06	9	0	21	71.2%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.69	0.46	0.93	240	160	324	17.5%	2
2019-M12-S01	0.03	0.00	0.11	10	0	39	140.0%	2
2020-M01-S01	0.11	0.00	0.31	40	0	107	72.5%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.06	10	0	23	57.6%	4
2020-M04-S01	0.03	0.00	0.07	10	0	24	62.9%	4

Table 11-0-421: Great black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.13	20	0	45	59.4%	2
2018-M11-S01	0.26	0.08	0.47	91	28	165	38.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0.34	0.03	0.82	118	10	286	64.4%	2
2019-M01-S01	0.06	0.00	0.13	21	0	44	56.7%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.00	0.00	0.00	1	0	2	98.7%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.49	0.28	0.71	171	98	249	23.1%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0.06	0.00	0.19	22	0	66	95.5%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.06	10	0	23	57.8%	4
2020-M04-S01	0.01	0.00	0.04	5	0	15	102.0%	4

Table 11-0-422: Great black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	8	92.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	2	0	4	91.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.03	0.00	0.09	10	0	30	90.9%	2
2018-M11-S01	0.34	0.11	0.61	120	38	214	32.5%	2
2018-M12-S01	0.03	0.00	0.09	10	0	30	89.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.03	0.00	0.09	10	0	30	98.3%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.04	0.00	0.09	14	0	31	57.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	7	0	18	80.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.06	9	0	21	70.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.20	0.09	0.31	70	30	108	28.2%	2
2019-M12-S01	0.03	0.00	0.09	10	0	30	100.0%	2
2020-M01-S01	0.06	0.00	0.17	21	0	60	66.7%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.04	6	0	15	85.5%	4

Table 11-0-423: Great crested grebe density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-424: Great skua density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-425: Guillemot density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.58	0.93	2.35	553	325	820	24.4%	4
2018-M06-S01	0.24	0.09	0.39	82	33	138	36.6%	4
2018-M07-S01	0.12	0.01	0.25	41	7	88	63.4%	4
2018-M08-S01	1.96	0.59	3.62	685	205	1261	42.0%	4
2018-M09-S01	0.55	0.36	0.74	194	124	258	20.6%	4
2018-M10-S01	5.09	3.43	7.36	1772	1194	2565	20.7%	2
2018-M11-S01	3.19	2.63	3.81	1110	917	1327	12.3%	2
2018-M12-S01	1.62	1.04	2.19	566	364	762	17.2%	2
2019-M01-S01	0.60	0.23	1.10	210	82	384	39.7%	2
2019-M02-S01	1.11	0.77	1.56	386	267	544	17.4%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M03-S01	0.34	0.17	0.61	121	59	209	38.8%	4
2019-M04-S01	0.22	0.12	0.33	79	42	117	26.6%	4
2019-M04-S02	1.77	1.38	2.19	614	482	765	12.1%	4
2019-M05-S01	3.89	2.63	5.36	1356	919	1867	19.8%	4
2019-M05-S02	0.24	0.14	0.33	86	53	116	20.9%	4
2019-M06-S01	0.91	0.59	1.26	319	207	442	20.7%	4
2019-M06-S02	0.17	0.05	0.30	61	20	105	39.3%	4
2019-M07-S01	0.09	0.03	0.18	33	9	66	51.5%	4
2019-M07-S02	0.13	0.04	0.25	46	13	86	47.8%	4
2019-M08-S01	0.17	0.09	0.25	61	32	90	27.9%	4
2019-M08-S02	0.14	0.04	0.26	51	13	91	45.1%	4
2019-M09-S01	4.31	2.78	6.36	1501	969	2215	22.5%	4
2019-M10-S01	4.55	2.76	6.61	1586	960	2303	21.7%	2
2019-M11-S01	1.45	0.65	2.46	505	226	856	28.2%	2
2019-M12-S01	1.54	0.99	2.24	536	346	782	21.1%	2
2020-M01-S01	0.35	0.20	0.53	123	68	186	27.2%	2
2020-M02-S01	0.35	0.11	0.67	121	37	234	43.3%	2
2020-M03-S01	6.93	2.91	11.33	2414	1014	3945	34.7%	4
2020-M04-S01	4.03	2.78	5.39	1406	970	1874	16.4%	4

Table 11-0-426: Guillemot density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.00	0.11	16	0	38	66.8%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.03	0.00	0.08	10	0	29	89.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.03	0.00	0.08	10	0	30	92.1%	4
2019-M05-S01	0.03	0.00	0.08	12	0	28	59.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.20	0.00	0.46	68	0	159	57.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.07	11	0	24	61.4%	4
2020-M04-S01	0.15	0.05	0.28	54	19	97	37.8%	4

Table 11-0-427: Guillemot density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.17	0.71	1.70	408	247	594	22.0%	4
2018-M06-S01	0.18	0.07	0.30	62	25	105	34.4%	4
2018-M07-S01	0.09	0.01	0.19	31	5	67	56.5%	4
2018-M08-S01	1.49	0.45	2.75	520	156	958	38.6%	4
2018-M09-S01	0.42	0.27	0.56	147	94	196	18.3%	4
2018-M10-S01	4.09	2.77	5.88	1424	965	2049	17.6%	2
2018-M11-S01	2.57	2.13	3.08	897	741	1072	9.3%	2
2018-M12-S01	1.31	0.84	1.77	457	294	616	15.1%	2
2019-M01-S01	0.49	0.19	0.89	170	66	310	34.7%	2
2019-M02-S01	0.90	0.62	1.26	312	216	440	15.1%	2
2019-M03-S01	0.26	0.13	0.46	92	45	159	34.3%	4
2019-M04-S01	0.17	0.09	0.25	60	32	89	24.5%	4
2019-M04-S02	1.32	1.05	1.60	459	366	558	11.5%	4
2019-M05-S01	2.93	2.00	4.01	1021	698	1397	17.7%	4
2019-M05-S02	0.18	0.11	0.25	65	40	88	19.7%	4
2019-M06-S01	0.69	0.45	0.96	242	157	336	19.2%	4
2019-M06-S02	0.13	0.04	0.23	46	15	80	37.4%	4
2019-M07-S01	0.07	0.02	0.14	25	7	50	46.1%	4
2019-M07-S02	0.10	0.03	0.19	35	10	65	42.6%	4
2019-M08-S01	0.13	0.07	0.19	46	24	68	25.3%	4
2019-M08-S02	0.11	0.03	0.20	39	10	69	39.9%	4
2019-M09-S01	3.27	2.11	4.83	1140	736	1682	21.6%	4
2019-M10-S01	3.68	2.23	5.34	1282	776	1861	19.0%	2
2019-M11-S01	1.01	0.53	1.62	353	183	563	24.9%	2
2019-M12-S01	1.24	0.80	1.81	433	280	632	18.0%	2
2020-M01-S01	0.28	0.16	0.43	99	55	150	21.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0.28	0.09	0.54	98	30	189	36.7%	2
2020-M03-S01	5.24	2.21	8.55	1825	770	2978	32.4%	4
2020-M04-S01	2.95	2.07	3.88	1027	722	1350	15.8%	4

Table 11-0-428: Herring gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.11	11	0	39	99.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.00	0.07	11	0	24	57.9%	4
2018-M09-S01	0.02	0.00	0.04	6	0	16	88.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.03	0.00	0.09	11	0	32	127.3%	2
2018-M12-S01	0.03	0.00	0.09	10	0	30	93.8%	2
2019-M01-S01	0.03	0.00	0.09	10	0	30	91.6%	2
2019-M02-S01	0.06	0.00	0.13	21	0	47	59.9%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.04	6	0	15	90.3%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.14	0.00	0.43	50	0	150	98.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.03	0.00	0.08	12	1	30	72.1%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.06	0.00	0.13	21	0	45	56.4%	2
2019-M12-S01	0.09	0.00	0.22	31	0	76	71.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.04	5	0	15	94.1%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-429: Herring gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.03	0.00	0.09	11	0	30	93.1%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.04	6	0	16	86.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0.03	0.00	0.09	10	0	30	93.9%	2
2018-M12-S01	0.03	0.00	0.09	10	0	30	92.9%	2
2019-M01-S01	0.03	0.00	0.09	10	0	30	90.6%	2
2019-M02-S01	0.06	0.00	0.13	21	0	47	61.1%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.04	6	0	15	90.7%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.05	6	0	18	94.9%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.06	0.00	0.13	21	0	46	58.5%	2
2019-M12-S01	0.03	0.00	0.08	10	0	29	90.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.04	6	0	15	92.6%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-430: Herring gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	5	0	16	95.7%	4
2018-M09-S01	0.01	0.00	0.04	6	0	15	86.5%	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.13	0.00	0.38	46	0	131	93.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.03	0.00	0.09	12	1	30	72.9%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.06	0.00	0.17	21	0	59	90.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-431: Kestrel density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table13-0-432: Kittiwake density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.35	0.00	0.83	124	0	290	63.3%	4
2018-M07-S01	0.03	0.00	0.07	10	0	25	65.9%	4
2018-M08-S01	0.06	0.00	0.14	21	0	50	66.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.17	0.00	0.42	59	0	148	71.2%	2
2018-M11-S01	0.44	0.19	0.72	152	65	251	35.5%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.06	0.00	0.14	21	0	48	63.3%	2
2019-M02-S01	0.03	0.00	0.09	11	0	33	154.5%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.04	6	0	15	91.0%	4
2019-M04-S02	0.08	0.00	0.19	29	0	67	61.3%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.03	0.00	0.07	10	0	24	62.0%	4
2019-M06-S01	0.03	0.00	0.06	10	0	23	57.8%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	10	0	24	64.2%	4
2019-M07-S02	0.01	0.00	0.04	5	0	15	96.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.25	0.06	0.51	88	22	179	47.8%	4
2019-M09-S01	0.98	0.67	1.31	340	234	456	17.0%	4
2019-M10-S01	0.11	0.03	0.21	37	9	74	56.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.31	0.13	0.53	109	44	184	36.7%	2
2020-M01-S01	0.07	0.00	0.19	26	0	66	96.2%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.08	10	0	29	91.0%	4
2020-M04-S01	1.66	0.84	2.54	577	292	886	26.3%	4

Table 11-0-433: Kittiwake density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.05	6	0	19	99.9%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.21	22	0	74	92.1%	2
2018-M11-S01	0.27	0.10	0.48	94	36	167	35.1%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.06	0.00	0.14	21	0	48	61.2%	2
2019-M02-S01	0.03	0.00	0.09	10	0	30	87.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.04	5	0	15	92.8%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.04	6	0	15	92.5%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.03	0.00	0.06	10	0	23	57.7%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	11	0	25	65.8%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	9	0	24	90.5%	4
2019-M09-S01	0.78	0.51	1.04	271	178	364	18.5%	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	91.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.23	0.06	0.43	80	20	151	42.3%	2
2020-M01-S01	0.06	0.00	0.15	22	0	52	68.2%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.72	0.45	1.01	252	158	352	19.3%	4

Table 11-0-434: Kittiwake density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.36	0.00	0.90	126	0	312	63.4%	4
2018-M07-S01	0.01	0.00	0.04	6	0	15	91.7%	4
2018-M08-S01	0.06	0.00	0.14	20	0	49	68.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.00	0.33	40	0	114	82.5%	2
2018-M11-S01	0.18	0.00	0.35	64	0	122	59.4%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.04	5	0	15	94.3%	4
2019-M04-S02	0.07	0.01	0.15	23	4	51	55.5%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.04	6	0	15	94.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.04	5	0	15	90.2%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.23	0.05	0.50	82	19	175	54.6%	4
2019-M09-S01	0.19	0.09	0.29	68	30	102	27.9%	4
2019-M10-S01	0.07	0.00	0.17	24	0	58	66.7%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.06	0.00	0.14	20	0	49	110.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.03	0.00	0.08	10	0	29	91.9%	4
2020-M04-S01	0.92	0.36	1.60	321	126	559	34.1%	4

Table 11-0-435 Knot density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-436: Lapwing density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-437: Lesser black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	8	87.4%	4
2018-M06-S01	0.01	0.00	0.04	5	0	15	88.2%	4
2018-M07-S01	0.10	0.03	0.20	35	10	70	44.9%	4
2018-M08-S01	0.19	0.03	0.47	68	10	165	67.6%	4
2018-M09-S01	0.01	0.00	0.04	6	0	16	91.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.04	6	0	15	86.0%	4
2019-M05-S01	0.19	0.00	0.53	67	0	183	82.5%	4
2019-M05-S02	0.03	0.00	0.07	11	0	25	62.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.01	0.00	0.04	6	0	15	92.0%	4
2019-M06-S02	0.09	0.04	0.14	30	14	51	34.1%	4
2019-M07-S01	0.56	0.03	1.82	194	10	636	88.1%	4
2019-M07-S02	0.06	0.01	0.10	20	5	35	38.0%	4
2019-M08-S01	0.01	0.00	0.04	6	0	15	88.5%	4
2019-M08-S02	0.13	0.03	0.24	47	10	85	42.5%	4
2019-M09-S01	0.01	0.00	0.04	6	0	15	87.7%	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	92.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.09	0.00	0.26	31	0	89	67.7%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-438: Lesser black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.02	0.00	0.04	6	0	15	87.2%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.01	0.08	16	5	30	44.8%	4
2018-M09-S01	0.02	0.00	0.04	6	0	16	88.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.04	5	0	15	93.7%	4
2019-M05-S01	0.02	0.00	0.05	6	0	18	95.5%	4
2019-M05-S02	0.01	0.00	0.04	6	0	15	91.0%	4
2019-M06-S01	0.01	0.00	0.04	6	0	15	86.7%	4
2019-M06-S02	0.06	0.00	0.12	20	0	44	52.7%	4
2019-M07-S01	0.13	0.03	0.24	44	10	84	42.3%	4
2019-M07-S02	0.04	0.01	0.08	15	5	30	47.2%	4
2019-M08-S01	0.01	0.00	0.04	5	0	15	91.3%	4
2019-M08-S02	0.03	0.00	0.07	10	0	23	58.3%	4
2019-M09-S01	0.01	0.00	0.04	6	0	15	86.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-439: Lesser black-backed gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	3	0	8	85.2%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.10	0.01	0.19	35	5	67	43.6%	4
2018-M08-S01	0.13	0.00	0.35	45	0	123	78.3%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.17	0.00	0.51	60	0	180	91.2%	4
2019-M05-S02	0.01	0.00	0.04	5	0	15	95.8%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0.03	0.00	0.07	10	0	24	59.8%	4
2019-M07-S01	0.42	0.00	1.27	145	0	442	99.5%	4
2019-M07-S02	0.01	0.00	0.04	5	0	15	91.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.11	0.01	0.22	37	5	76	50.3%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	91.7%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-440: Little gull density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.18	21	0	61	104.8%	2
2018-M11-S01	0.57	0.27	0.87	199	95	303	27.6%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	5	0	13	90.5%	4
2019-M10-S01	0.35	0.11	0.61	122	37	212	32.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.03	0.00	0.10	10	0	34	250.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.04	6	0	15	90.5%	4

Table 11-0-441: Little gull density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.37	0.17	0.56	128	58	195	25.8%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	5	0	13	90.7%	4
2019-M10-S01	0.14	0.05	0.25	49	18	88	38.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-442: Little gull density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.06	0.00	0.18	20	0	61	105.0%	2
2018-M11-S01	0.18	0.00	0.38	64	0	131	60.9%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.17	0.03	0.35	58	9	123	46.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.03	0.00	0.09	10	0	31	210.0%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.04	6	0	15	92.9%	4

Table 11-0-443: Little tern density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.04	6	0	16	93.8%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.13	16	0	46	87.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-444: Little tern density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.01	0.00	0.04	5	0	16	96.2%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.04	0.00	0.13	16	0	46	88.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-445: Little tern density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-446: Long-tailed skua density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-447: Manx shearwater density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.06	0.00	0.18	20	0	61	115.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-448: Manx shearwater density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-449: Manx shearwater density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.06	0.00	0.18	21	0	61	104.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-450: Oystercatcher density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.01	0.00	0.04	5	0	15	93.0%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-451 Oystercatcher density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.01	0.00	0.04	6	0	15	89.4%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-452: Oystercatcher density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-453: Pomarine skua density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-454: Puffin density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.05	7	0	17	100.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.00	0.00	0.00	1	0	2	100.0%	4
2018-M09-S01	0.00	0.00	0.01	1	0	3	100.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M05-S01	0.05	0.00	0.14	17	0	50	105.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.08	12	0	27	83.3%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.07	0.03	0.10	26	13	36	30.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.06	0.01	0.13	21	3	44	66.7%	4
2020-M04-S01	0.00	0.00	0.00	1	0	2	100.0%	4

Table 11-0-455: Puffin density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-456: Puffin density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	6	0	15	87.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.00	0.00	0.00	1	0	2	96.4%	4
2018-M09-S01	0.00	0.00	0.01	1	0	3	89.7%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.00	0.00	0.00	1	0	1	92.3%	4
2019-M05-S01	0.04	0.00	0.12	15	0	43	87.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.03	0.00	0.07	10	0	23	67.9%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.06	0.03	0.09	22	11	31	23.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.01	0.11	18	3	38	53.1%	4
2020-M04-S01	0.00	0.00	0.00	1	0	2	92.3%	4

Table 11-0-457: Razorbill density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.05	7	0	18	100.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.04	0.00	0.11	13	0	37	100.0%	4
2018-M08-S01	0.01	0.00	0.02	4	0	10	100.0%	4
2018-M09-S01	0.03	0.00	0.11	17	1	43	64.7%	4
2018-M10-S01	3.41	2.04	4.98	1189	710	1735	24.9%	2
2018-M11-S01	4.49	2.93	6.28	1565	1023	2190	20.6%	2
2018-M12-S01	0.44	0.20	0.79	154	69	274	40.9%	2
2019-M01-S01	0.07	0.00	0.18	25	0	62	93.4%	2
2019-M02-S01	0.33	0.10	0.62	114	35	216	49.0%	2
2019-M03-S01	0.04	0.00	0.10	13	0	34	100.0%	4
2019-M04-S01	0.02	0.00	0.05	7	0	20	100.0%	4
2019-M04-S02	0.07	0.02	0.13	24	7	46	54.2%	4
2019-M05-S01	0.15	0.04	0.26	51	15	90	45.1%	4
2019-M05-S02	0.03	0.00	0.08	10	0	30	100.0%	4
2019-M06-S01	0.06	0.00	0.15	22	0	54	63.6%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.05	7	0	18	100.0%	4
2019-M08-S01	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	100.0%	4
2019-M09-S01	0.79	0.43	1.29	276	149	448	31.9%	4
2019-M10-S01	4.04	1.69	6.77	1409	588	2360	32.3%	2
2019-M11-S01	1.66	0.79	2.60	579	275	907	26.0%	2
2019-M12-S01	1.59	0.72	2.46	554	251	857	29.9%	2
2020-M01-S01	0.04	0.00	0.12	14	0	42	176.4%	2
2020-M02-S01	0.22	0.00	0.65	76	0	227	61.8%	2
2020-M03-S01	0.83	0.23	1.59	292	83	552	51.0%	4
2020-M04-S01	2.35	1.50	3.23	821	522	1122	21.3%	4

Table 11-0-458: Razorbill density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.04	6	0	16	92.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.03	0.00	0.09	10	0	30	97.1%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.03	0.00	0.08	10	0	30	94.3%	4
2019-M06-S01	0.01	0.00	0.04	6	0	15	93.9%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.04	5	0	15	93.1%	4
2019-M10-S01	0.12	0.00	0.34	41	0	119	70.7%	2
2019-M11-S01	0.15	0.00	0.36	54	0	124	55.6%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.14	0.00	0.42	50	0	148	76.0%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.09	0.02	0.17	31	7	59	45.0%	4

Table 11-0-459: Razorbill density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.04	6	0	15	86.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.03	0.00	0.09	11	0	30	87.8%	4
2018-M08-S01	0.01	0.00	0.02	3	0	8	86.6%	4
2018-M09-S01	0.02	0.00	0.06	9	1	22	76.8%	4
2018-M10-S01	2.91	1.74	4.24	1013	605	1478	20.2%	2
2018-M11-S01	3.83	2.50	5.35	1333	871	1865	16.9%	2
2018-M12-S01	0.35	0.17	0.60	123	59	208	35.8%	2
2019-M01-S01	0.06	0.00	0.15	21	0	53	81.0%	2
2019-M02-S01	0.28	0.09	0.53	97	30	184	40.2%	2
2019-M03-S01	0.03	0.00	0.08	11	0	28	84.9%	4
2019-M04-S01	0.02	0.00	0.04	6	0	16	77.9%	4
2019-M04-S02	0.06	0.02	0.11	20	6	38	42.4%	4
2019-M05-S01	0.12	0.03	0.21	42	12	74	38.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.04	0.00	0.09	13	0	32	73.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.04	6	0	15	90.3%	4
2019-M08-S01	0.00	0.00	0.00	1	0	1	88.9%	4
2019-M08-S02	0.00	0.00	0.00	1	0	1	92.2%	4
2019-M09-S01	0.64	0.35	1.02	222	122	354	26.9%	4
2019-M10-S01	3.34	1.44	5.48	1165	501	1909	27.9%	2
2019-M11-S01	1.28	0.67	1.91	447	234	667	21.5%	2
2019-M12-S01	1.35	0.61	2.09	472	214	730	24.6%	2
2020-M01-S01	0.03	0.00	0.10	12	0	36	108.3%	2
2020-M02-S01	0.06	0.00	0.19	22	0	67	95.5%	2
2020-M03-S01	0.68	0.19	1.30	239	68	452	42.6%	4
2020-M04-S01	1.85	1.21	2.50	646	421	870	18.4%	4

*Table 11-0-460: Red-throated diver density and abundance estimates at SEP + 4 km buffer by survey – all birds. Values in **red** indicate peak density estimates used in construction phase displacement assessment, and peak abundance estimates used in operational phase displacement assessment.*

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.11	0.03	0.22	38	10	75	40.8%	2
2018-M11-S01	**0.14**	**0.00**	**0.32**	**49**	**0**	**112**	56.0%	2
2018-M12-S01	**0.03**	**0.00**	**0.09**	**10**	**0**	**30**	99.3%	2
2019-M01-S01	0.03	0.00	0.09	10	0	30	92.6%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	**0.95**	**0.09**	**2.43**	**332**	**30**	**848**	72.9%	4
2019-M04-S01	0.13	0.04	0.24	46	14	84	39.9%	4
2019-M04-S02	0.03	0.00	0.07	10	0	23	60.8%	4
2019-M05-S01	0.02	0.00	0.06	6	0	21	99.7%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.09	0.03	0.17	30	9	60	76.7%	2
2019-M11-S01	**0.29**	**0.14**	**0.46**	**101**	**49**	**161**	28.7%	2
2019-M12-S01	**0.03**	**0.00**	**0.09**	**10**	**0**	**30**	93.7%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.03	0.00	0.09	10	0	30	92.0%	2
2020-M03-S01	**0.14**	**0.08**	**0.22**	**50**	**28**	**77**	27.1%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-461: Red-throated diver density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.03	0.00	0.09	10	0	30	88.4%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.03	0.00	0.09	11	0	30	93.8%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.06	0.00	0.13	21	0	47	61.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.03	0.00	0.08	10	0	29	91.7%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-462: Red-throated diver density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.09	0.00	0.19	31	0	66	52.9%	2
2018-M11-S01	0.14	0.00	0.32	49	0	111	55.1%	2
2018-M12-S01	0.03	0.00	0.10	10	0	36	98.3%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.94	0.09	2.40	328	30	836	74.9%	4
2019-M04-S01	0.13	0.04	0.23	46	15	81	39.4%	4
2019-M04-S02	0.03	0.00	0.07	11	0	24	59.8%	4
2019-M05-S01	0.02	0.00	0.05	6	0	18	94.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.03	0.00	0.09	11	0	31	190.9%	2
2019-M11-S01	0.29	0.14	0.46	101	48	162	29.2%	2
2019-M12-S01	0.03	0.00	0.09	10	0	30	95.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.14	0.07	0.23	51	25	79	27.1%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-463: Sandwich tern density and abundance estimates at SEP + 4 km buffer by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.52	0.33	0.72	182	117	253	19.5%	4
2018-M06-S01	0.48	0.19	0.82	167	65	286	34.3%	4
2018-M07-S01	2.12	0.94	3.61	740	328	1256	31.8%	4
2018-M08-S01	0.03	0.00	0.09	11	0	31	90.1%	4
2018-M09-S01	0.02	0.00	0.04	6	0	16	96.5%	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.04	6	0	15	90.6%	4
2019-M04-S02	0.15	0.03	0.29	52	10	101	46.3%	4
2019-M05-S01	0.21	0.06	0.39	75	22	136	39.6%	4
2019-M05-S02	0.34	0.17	0.53	120	60	184	26.9%	4
2019-M06-S01	0.33	0.18	0.49	115	63	172	25.7%	4
2019-M06-S02	0.49	0.24	0.81	169	84	282	29.6%	4
2019-M07-S01	0.12	0.03	0.23	41	9	81	46.7%	4
2019-M07-S02	0.08	0.03	0.13	28	10	47	33.7%	4
2019-M08-S01	0.04	0.01	0.08	15	5	29	44.6%	4
2019-M08-S02	0.04	0.00	0.09	16	0	31	51.1%	4
2019-M09-S01	0.10	0.01	0.19	35	5	67	47.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-464: Sandwich tern density and abundance estimates at SEP + 4 km buffer by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.60	0.34	1.00	208	119	347	29.9%	4
2018-M06-S01	0.45	0.16	1.04	157	54	360	56.2%	4
2018-M07-S01	2.03	1.42	2.64	703	494	915	30.4%	4
2018-M08-S01	0.03	0.00	0.09	11	0	31	90.1%	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	nd	nd	nd	nd	nd	nd	nd	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.06	0.01	0.20	21	4	70	107.6%	4
2019-M04-S02	0.06	0.01	0.21	22	4	74	110.6%	4
2019-M05-S01	0.28	0.16	0.46	98	57	158	28.6%	4
2019-M05-S02	0.29	0.17	0.47	100	57	163	29.5%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.38	0.20	0.68	133	70	235	34.2%	4
2019-M06-S02	0.37	0.19	0.65	128	67	226	34.5%	4
2019-M07-S01	0.11	0.05	0.23	38	16	78	45.2%	4
2019-M07-S02	0.11	0.05	0.22	37	16	76	44.2%	4
2019-M08-S01	0.09	0.03	0.22	30	10	76	75.2%	4
2019-M08-S02	0.09	0.03	0.22	31	10	76	74.9%	4
2019-M09-S01	0.10	0.03	0.26	36	11	89	276.9%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-465: Sandwich tern density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.53	0.34	0.72	183	120	252	19.1%	4
2018-M06-S01	0.46	0.17	0.83	162	61	289	36.4%	4
2018-M07-S01	2.11	0.88	3.63	734	308	1263	33.2%	4
2018-M08-S01	0.03	0.00	0.09	11	0	31	89.8%	4
2018-M09-S01	0.01	0.00	0.05	6	0	19	101.0%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.04	6	0	15	89.2%	4
2019-M04-S02	0.15	0.03	0.30	54	10	106	44.4%	4
2019-M05-S01	0.22	0.06	0.38	76	23	131	37.7%	4
2019-M05-S02	0.34	0.17	0.53	120	59	184	27.0%	4
2019-M06-S01	0.33	0.17	0.50	114	60	174	25.6%	4
2019-M06-S02	0.48	0.22	0.81	168	79	282	30.3%	4
2019-M07-S01	0.11	0.02	0.24	40	9	83	49.2%	4
2019-M07-S02	0.08	0.03	0.13	28	10	46	32.5%	4
2019-M08-S01	0.04	0.01	0.08	15	5	28	42.6%	4
2019-M08-S02	0.04	0.01	0.09	16	4	32	51.6%	4
2019-M09-S01	0.10	0.01	0.20	35	5	70	48.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-466: Sandwich tern density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-467: Shag density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.03	0.00	0.09	10	0	30	99.7%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-468: Shag density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-469: Shag density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0.03	0.00	0.09	10	0	30	98.7%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-470: Shelduck density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-471: Tufted duck density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-472: Woodpigeon density and abundance estimates at SEP + 4 km buffer by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	89.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-473: Woodpigeon density and abundance estimates at SEP + 4 km buffer by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.03	0.00	0.09	10	0	30	88.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-474: Woodpigeon density and abundance estimates at SEP + 4 km buffer by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.5.7 Aerial Survey Study Area

Table 11-0-475: Arctic skua density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	11	0	25	61.0%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.01	0.00	0.02	11	0	30	96.0%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-476: Arctic skua density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	10	0	24	66.8%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.01	0.00	0.02	10	0	30	95.1%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-477: Arctic skua density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-478: Arctic tern density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	18	4	35	45.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.07	0.03	0.13	93	37	166	37.3%	4
2019-M05-S01	0.03	0.01	0.05	34	10	65	43.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.01	5	0	15	98.1%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-479: Arctic tern density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.03	18	4	35	44.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.06	0.03	0.11	77	32	141	36.7%	4
2019-M05-S01	0.03	0.01	0.05	34	10	67	44.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.01	6	0	15	97.7%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-480 Arctic tern density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	16	3	33	48.1%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-481: Black-headed gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	6	0	16	96.6%	4
2018-M08-S01	0.01	0.00	0.04	16	0	46	96.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.02	11	0	30	88.7%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.11	0.07	0.16	141	85	204	22.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.18	0.09	0.30	230	112	386	30.7%	4
2019-M09-S01	0.00	0.00	0.01	6	1	15	92.0%	4
2019-M10-S01	0.10	0.04	0.18	129	49	229	36.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.01	0.11	69	10	144	50.5%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-482: Black-headed gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	6	0	15	93.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.01	0.00	0.02	10	0	30	91.9%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.11	0.07	0.17	143	88	210	22.6%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.14	0.07	0.23	175	89	289	29.2%	4
2019-M09-S01	0.00	0.00	0.01	5	1	15	94.8%	4
2019-M10-S01	0.09	0.03	0.17	117	39	213	39.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.01	0.11	70	10	144	49.7%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-483: Black-headed gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	15	0	45	94.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.10	54	5	123	57.3%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	97.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-484 :Common gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.00	0.00	0.01	6	0	16	93.3%	4
2018-M07-S01	0.00	0.00	0.01	6	0	15	93.2%	4
2018-M08-S01	0.01	0.00	0.02	11	0	25	68.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.03	0.00	0.07	41	0	94	57.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.01	0.00	0.02	11	0	30	97.7%	2
2019-M02-S01	0.02	0.00	0.05	30	0	67	53.8%	2
2019-M03-S01	0.03	0.01	0.06	41	11	72	37.4%	4
2019-M04-S01	0.02	0.00	0.03	21	5	40	43.1%	4
2019-M04-S02	0.18	0.04	0.42	223	57	535	56.0%	4
2019-M05-S01	0.01	0.00	0.03	18	6	34	43.9%	4
2019-M05-S02	0.02	0.00	0.03	20	5	39	43.9%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.02	15	0	30	51.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.03	0.01	0.05	34	8	65	43.6%	4
2019-M09-S01	0.02	0.00	0.04	26	6	49	42.8%	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	97.4%	2
2019-M11-S01	0.02	0.00	0.04	20	0	49	63.5%	2
2019-M12-S01	0.10	0.04	0.18	130	57	229	34.6%	2
2020-M01-S01	0.03	0.00	0.08	40	0	104	73.5%	2
2020-M02-S01	0.01	0.00	0.02	10	0	30	95.0%	2
2020-M03-S01	0.04	0.01	0.07	46	12	88	42.8%	4
2020-M04-S01	0.02	0.00	0.03	21	1	43	52.6%	4

Table 11-0-485: Common gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.00	0.00	0.01	6	0	15	90.7%	4
2018-M07-S01	0.00	0.00	0.01	5	0	15	98.7%	4
2018-M08-S01	0.01	0.00	0.02	11	0	25	65.4%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.03	0.00	0.07	41	0	95	57.8%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.01	0.00	0.02	10	0	30	98.8%	2
2019-M02-S01	0.02	0.00	0.04	21	0	50	66.0%	2
2019-M03-S01	0.03	0.01	0.06	42	10	76	39.3%	4
2019-M04-S01	0.01	0.00	0.02	15	0	30	55.9%	4
2019-M04-S02	0.03	0.01	0.06	45	15	79	36.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.01	0.00	0.02	15	0	31	53.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.01	0.00	0.02	15	0	30	48.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.03	23	5	43	40.9%	4
2019-M09-S01	0.01	0.00	0.02	11	1	25	62.3%	4
2019-M10-S01	0.01	0.00	0.02	11	0	30	94.7%	2
2019-M11-S01	0.02	0.00	0.04	20	0	49	64.7%	2
2019-M12-S01	0.09	0.04	0.18	119	48	224	38.8%	2
2020-M01-S01	0.02	0.00	0.06	30	0	77	69.0%	2
2020-M02-S01	0.01	0.00	0.02	11	0	30	94.5%	2
2020-M03-S01	0.03	0.01	0.07	45	10	87	44.8%	4
2020-M04-S01	0.01	0.00	0.02	11	0	25	63.4%	4

Table 11-0-486: Common gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	11	0	30	95.3%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.01	6	1	16	89.8%	4
2019-M04-S02	0.14	0.02	0.36	181	22	461	64.1%	4
2019-M05-S01	0.01	0.00	0.03	18	6	33	43.7%	4
2019-M05-S02	0.00	0.00	0.01	6	0	15	90.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.02	11	1	31	91.1%	4
2019-M09-S01	0.01	0.00	0.03	16	1	39	65.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	97.4%	2
2020-M01-S01	0.01	0.00	0.02	11	0	30	93.4%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.02	11	0	30	90.7%	4

Table 11-0-487: Common scoter density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	20	0	60	95.7%	4
2019-M10-S01	0.07	0.00	0.21	91	0	268	94.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.05	21	0	60	94.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.05	21	0	60	96.9%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-488: Common scoter density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.05	21	0	60	92.2%	4
2019-M10-S01	0.07	0.00	0.21	91	0	267	94.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.05	20	0	60	94.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-489: Common scoter density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.05	21	0	60	96.9%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-490: Common tern density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.02	0.07	58	28	92	29.1%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	10	0	25	65.5%	4
2018-M08-S01	0.04	0.01	0.09	55	14	115	49.9%	4
2018-M09-S01	0.02	0.00	0.04	26	5	53	48.3%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.11	0.00	0.32	144	0	412	90.2%	4
2019-M04-S02	0.32	0.09	0.60	405	118	765	41.0%	4
2019-M05-S01	0.30	0.20	0.41	385	249	521	18.0%	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0.08	0.03	0.13	101	44	171	31.8%	4
2019-M06-S02	0.05	0.02	0.08	61	26	96	29.8%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.01	0.04	30	10	54	38.2%	4
2019-M08-S02	0.34	0.11	0.62	431	137	790	38.4%	4
2019-M09-S01	0.35	0.13	0.63	443	163	803	37.1%	4
2019-M10-S01	0.03	0.00	0.08	40	0	107	73.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-491: Common tern density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.02	0.08	58	29	95	29.0%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	11	0	25	63.2%	4
2018-M08-S01	0.04	0.01	0.09	56	10	117	48.9%	4
2018-M09-S01	0.02	0.00	0.04	25	5	50	48.4%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.06	0.00	0.16	72	0	205	86.9%	4
2019-M04-S02	0.20	0.06	0.39	259	78	491	41.9%	4
2019-M05-S01	0.27	0.17	0.37	337	220	472	19.8%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.08	0.03	0.13	101	43	166	32.6%	4
2019-M06-S02	0.05	0.02	0.07	62	30	95	27.7%	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.01	0.04	32	10	53	36.3%	4
2019-M08-S02	0.34	0.12	0.60	425	154	763	38.2%	4
2019-M09-S01	0.35	0.12	0.63	444	159	804	37.9%	4
2019-M10-S01	0.03	0.00	0.08	38	0	106	76.3%	2
2019-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-492: Common tern density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.06	0.00	0.16	72	0	209	90.8%	4
2019-M04-S02	0.11	0.01	0.24	141	14	304	52.4%	4
2019-M05-S01	0.04	0.00	0.10	50	6	123	69.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-493: Cormorant density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.02	11	0	30	95.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.00	0.00	0.01	6	0	17	93.1%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.00	0.00	0.01	6	0	15	94.4%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	30	0	89	98.5%	4
2019-M09-S01	0.01	0.00	0.04	15	0	45	93.2%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-494: Cormorant density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.02	10	0	30	98.7%	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.00	0.00	0.01	6	0	16	94.5%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0.00	0.00	0.01	6	0	15	95.8%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.02	0.00	0.07	31	0	90	96.4%	4
2019-M09-S01	0.01	0.00	0.04	15	0	45	94.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-495: Cormorant density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-496: Fulmar density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	15	0	30	51.4%	4
2018-M06-S01	0.01	0.00	0.03	16	0	34	53.0%	4
2018-M07-S01	0.02	0.01	0.04	29	10	50	36.6%	4
2018-M08-S01	0.01	0.00	0.02	10	0	25	68.9%	4
2018-M09-S01	0.02	0.00	0.04	20	0	45	57.2%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.02	0.00	0.04	20	0	49	65.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.05	31	0	68	53.6%	2
2019-M03-S01	0.02	0.00	0.04	22	0	53	65.6%	4
2019-M04-S01	0.02	0.00	0.05	30	5	59	47.9%	4
2019-M04-S02	0.04	0.01	0.06	46	15	79	34.6%	4
2019-M05-S01	0.05	0.03	0.07	60	33	86	21.6%	4
2019-M05-S02	0.03	0.01	0.05	42	15	70	34.4%	4
2019-M06-S01	0.03	0.01	0.05	40	15	65	32.3%	4
2019-M06-S02	0.01	0.00	0.02	11	0	31	90.6%	4
2019-M07-S01	0.08	0.03	0.15	105	42	194	36.4%	4
2019-M07-S02	0.04	0.01	0.07	46	10	91	46.1%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.02	13	0	27	52.1%	4
2019-M09-S01	0.12	0.06	0.20	157	76	255	29.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.04	20	0	49	64.0%	2
2020-M01-S01	0.02	0.00	0.04	20	0	49	63.7%	2
2020-M02-S01	0.01	0.00	0.02	11	0	30	99.0%	2
2020-M03-S01	0.02	0.00	0.04	26	5	54	49.2%	4
2020-M04-S01	0.01	0.00	0.02	11	0	25	63.3%	4

Table 11-0-497: Fulmar density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	16	0	30	50.2%	4
2018-M06-S01	0.01	0.00	0.03	15	0	34	53.4%	4
2018-M07-S01	0.01	0.00	0.03	15	0	34	56.9%	4
2018-M08-S01	0.01	0.00	0.02	11	0	25	66.2%	4
2018-M09-S01	0.01	0.00	0.03	16	0	40	67.5%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.02	0.00	0.04	21	0	50	66.1%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	10	0	30	99.0%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.03	21	5	44	52.3%	4
2019-M04-S02	0.02	0.00	0.03	21	0	44	54.0%	4
2019-M05-S01	0.03	0.01	0.05	38	16	67	34.8%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.02	0.01	0.03	26	10	45	37.3%	4
2019-M06-S01	0.02	0.00	0.03	20	5	38	43.5%	4
2019-M06-S02	0.00	0.00	0.01	6	0	15	97.8%	4
2019-M07-S01	0.04	0.02	0.08	55	20	102	37.7%	4
2019-M07-S02	0.02	0.00	0.04	26	5	50	46.9%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.01	5	0	15	98.5%	4
2019-M09-S01	0.07	0.03	0.12	85	34	149	35.1%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.04	21	0	49	62.6%	2
2020-M01-S01	0.02	0.00	0.04	20	0	48	62.1%	2
2020-M02-S01	0.01	0.00	0.02	11	0	30	97.8%	2
2020-M03-S01	0.02	0.00	0.04	20	0	47	59.1%	4
2020-M04-S01	0.00	0.00	0.01	6	0	15	93.4%	4

Table 11-0-498: Fulmar density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.01	0.00	0.02	14	0	29	51.1%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.00	0.00	0.01	5	0	15	96.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.04	20	0	49	67.3%	2
2019-M03-S01	0.02	0.00	0.04	21	0	52	65.2%	4
2019-M04-S01	0.01	0.00	0.02	11	0	30	96.4%	4
2019-M04-S02	0.02	0.00	0.05	26	5	58	57.2%	4
2019-M05-S01	0.02	0.00	0.03	22	6	42	41.8%	4
2019-M05-S02	0.01	0.00	0.02	15	0	30	51.8%	4
2019-M06-S01	0.02	0.00	0.03	21	5	40	46.0%	4
2019-M06-S02	0.00	0.00	0.01	6	0	15	92.3%	4
2019-M07-S01	0.04	0.01	0.07	49	19	83	36.5%	4
2019-M07-S02	0.02	0.00	0.05	21	0	58	76.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.02	8	0	20	67.2%	4
2019-M09-S01	0.06	0.02	0.10	72	31	122	33.3%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.00	0.00	0.01	5	0	15	97.4%	4
2020-M04-S01	0.00	0.00	0.01	6	0	15	94.9%	4

Table 11-0-499: Gannet density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.00	0.04	26	5	50	47.2%	4
2018-M06-S01	0.04	0.02	0.08	56	20	104	39.5%	4
2018-M07-S01	0.14	0.04	0.31	177	49	388	53.8%	4
2018-M08-S01	0.16	0.08	0.26	198	95	329	31.1%	4
2018-M09-S01	0.25	0.13	0.36	306	167	452	24.3%	4
2018-M10-S01	0.32	0.06	0.67	409	76	854	49.4%	2
2018-M11-S01	1.73	1.37	2.08	2194	1737	2630	10.5%	2
2018-M12-S01	0.09	0.04	0.15	111	48	194	34.5%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.04	0.00	0.08	51	0	106	51.0%	2
2019-M03-S01	0.05	0.01	0.09	59	18	108	41.2%	4
2019-M04-S01	0.21	0.05	0.44	261	63	559	49.9%	4
2019-M04-S02	0.09	0.06	0.11	109	72	144	17.0%	4
2019-M05-S01	0.09	0.03	0.15	109	43	195	35.1%	4
2019-M05-S02	0.06	0.03	0.11	80	35	145	35.8%	4
2019-M06-S01	0.05	0.02	0.10	70	25	128	37.6%	4
2019-M06-S02	0.06	0.03	0.09	75	45	108	22.0%	4
2019-M07-S01	0.03	0.01	0.05	36	10	65	38.0%	4
2019-M07-S02	0.10	0.05	0.15	128	68	195	25.9%	4
2019-M08-S01	0.15	0.06	0.28	196	73	357	38.3%	4
2019-M08-S02	0.16	0.07	0.28	204	86	358	34.7%	4
2019-M09-S01	0.75	0.46	1.06	951	578	1337	21.1%	4
2019-M10-S01	0.31	0.17	0.47	397	220	596	24.6%	2
2019-M11-S01	0.88	0.58	1.23	1115	736	1555	18.9%	2
2019-M12-S01	0.03	0.00	0.07	40	0	88	55.4%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.06	0.01	0.13	80	10	161	47.7%	2
2020-M03-S01	0.02	0.01	0.04	25	10	48	42.3%	4
2020-M04-S01	0.49	0.27	0.75	625	341	955	25.6%	4

Table 11-0-500: Gannet density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	10	0	25	67.1%	4
2018-M06-S01	0.02	0.00	0.05	31	5	67	53.1%	4
2018-M07-S01	0.02	0.00	0.04	25	5	49	43.5%	4
2018-M08-S01	0.06	0.04	0.09	81	50	112	20.0%	4
2018-M09-S01	0.12	0.07	0.19	153	83	231	25.1%	4
2018-M10-S01	0.07	0.02	0.15	94	20	193	46.7%	2
2018-M11-S01	0.77	0.63	0.94	977	804	1189	10.3%	2
2018-M12-S01	0.06	0.02	0.11	80	29	140	36.3%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.03	0.00	0.08	41	0	98	64.5%	2
2019-M03-S01	0.04	0.01	0.08	51	10	105	51.4%	4
2019-M04-S01	0.12	0.03	0.25	155	40	313	47.4%	4
2019-M04-S02	0.06	0.03	0.08	75	45	107	21.3%	4
2019-M05-S01	0.04	0.01	0.07	48	11	91	43.3%	4
2019-M05-S02	0.04	0.01	0.06	46	15	77	35.1%	4
2019-M06-S01	0.03	0.01	0.07	45	15	83	41.7%	4
2019-M06-S02	0.03	0.02	0.05	41	20	63	28.3%	4
2019-M07-S01	0.02	0.00	0.03	20	5	39	43.0%	4
2019-M07-S02	0.06	0.02	0.13	76	20	161	46.5%	4
2019-M08-S01	0.06	0.01	0.13	80	19	160	47.3%	4
2019-M08-S02	0.07	0.03	0.12	86	34	154	36.8%	4
2019-M09-S01	0.23	0.19	0.28	295	235	359	11.0%	4
2019-M10-S01	0.16	0.06	0.29	208	77	367	35.3%	2
2019-M11-S01	0.34	0.21	0.50	436	266	629	20.7%	2
2019-M12-S01	0.03	0.00	0.07	41	0	88	55.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.04	0.00	0.09	50	0	116	59.7%	2
2020-M03-S01	0.02	0.00	0.04	25	5	48	41.7%	4
2020-M04-S01	0.22	0.13	0.32	273	165	400	22.2%	4

Table 11-0-501: Gannet density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	11	0	25	64.8%	4
2018-M06-S01	0.02	0.00	0.04	25	5	50	47.0%	4
2018-M07-S01	0.12	0.02	0.30	150	20	370	67.3%	4
2018-M08-S01	0.09	0.03	0.18	115	35	227	43.2%	4
2018-M09-S01	0.12	0.04	0.21	146	56	266	37.8%	4
2018-M10-S01	0.25	0.04	0.55	320	47	694	52.9%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.95	0.68	1.22	1207	858	1546	14.5%	2
2018-M12-S01	0.02	0.00	0.06	30	0	78	71.0%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	10	0	30	95.9%	2
2019-M03-S01	0.01	0.00	0.02	10	0	31	92.7%	4
2019-M04-S01	0.08	0.01	0.17	99	19	219	54.7%	4
2019-M04-S02	0.03	0.01	0.05	36	15	59	33.4%	4
2019-M05-S01	0.05	0.01	0.09	60	11	119	48.1%	4
2019-M05-S02	0.03	0.00	0.06	36	5	72	47.5%	4
2019-M06-S01	0.01	0.00	0.03	16	0	38	67.6%	4
2019-M06-S02	0.03	0.01	0.05	36	10	63	38.7%	4
2019-M07-S01	0.01	0.00	0.02	11	0	25	63.7%	4
2019-M07-S02	0.04	0.02	0.07	56	25	84	26.4%	4
2019-M08-S01	0.09	0.03	0.16	111	44	197	37.0%	4
2019-M08-S02	0.09	0.03	0.16	116	43	208	36.8%	4
2019-M09-S01	0.52	0.26	0.79	658	334	1003	26.2%	4
2019-M10-S01	0.15	0.06	0.27	190	70	337	36.3%	2
2019-M11-S01	0.53	0.27	0.84	669	345	1069	27.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.06	30	0	78	68.6%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.27	0.10	0.47	348	123	597	36.6%	4

Table 11-0-502: Golden plover density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.06	25	0	75	96.1%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.01	5	0	15	93.7%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-503: Golden plover density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.06	24	0	75	101.8%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.00	0.00	0.01	6	0	15	88.6%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-504: Golden plover density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-505: Great black-backed gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.02	0.01	0.03	23	8	39	36.1%	4
2018-M06-S01	0.00	0.00	0.01	5	0	15	95.5%	4
2018-M07-S01	0.01	0.00	0.04	19	0	46	68.2%	4
2018-M08-S01	0.01	0.00	0.03	12	0	35	95.6%	4
2018-M09-S01	0.04	0.01	0.07	46	15	83	40.4%	4
2018-M10-S01	0.06	0.00	0.15	80	0	189	62.2%	2
2018-M11-S01	0.46	0.18	0.81	582	233	1032	35.4%	2
2018-M12-S01	0.23	0.09	0.42	288	117	529	36.8%	2
2019-M01-S01	0.03	0.00	0.07	41	0	89	54.9%	2
2019-M02-S01	0.02	0.00	0.05	30	0	60	50.3%	2
2019-M03-S01	0.01	0.00	0.03	10	0	36	101.0%	4
2019-M04-S01	0.01	0.00	0.02	11	0	30	96.5%	4
2019-M04-S02	0.01	0.00	0.03	15	0	40	71.3%	4
2019-M05-S01	0.02	0.00	0.03	20	4	39	45.6%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.03	22	3	43	50.1%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	14	0	33	64.2%	4
2019-M09-S01	0.14	0.03	0.29	178	38	366	49.2%	4
2019-M10-S01	0.02	0.00	0.05	31	0	60	49.0%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.31	0.19	0.45	399	244	567	21.4%	2
2019-M12-S01	0.06	0.03	0.10	81	39	130	29.7%	2
2020-M01-S01	0.07	0.02	0.13	90	20	169	41.7%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.03	16	0	39	67.2%	4
2020-M04-S01	0.02	0.01	0.04	30	14	49	30.2%	4

Table 11-0-506: Great black-backed gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	16	0	30	49.3%	4
2018-M06-S01	0.00	0.00	0.01	6	0	16	96.4%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.02	7	0	21	94.0%	4
2018-M09-S01	0.02	0.00	0.04	21	0	45	57.8%	4
2018-M10-S01	0.02	0.01	0.05	30	10	60	49.7%	2
2018-M11-S01	0.16	0.07	0.28	209	89	358	32.9%	2
2018-M12-S01	0.16	0.06	0.31	198	75	387	41.1%	2
2019-M01-S01	0.03	0.00	0.07	41	0	89	57.2%	2
2019-M02-S01	0.02	0.00	0.04	20	0	49	65.7%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.03	15	0	39	67.9%	4
2019-M05-S01	0.00	0.00	0.01	6	0	16	90.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.01	0.00	0.02	11	0	31	88.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.01	6	0	15	93.1%	4
2019-M10-S01	0.01	0.00	0.02	11	0	30	93.0%	2
2019-M11-S01	0.24	0.13	0.37	301	159	466	25.8%	2
2019-M12-S01	0.04	0.01	0.08	51	10	96	41.5%	2
2020-M01-S01	0.05	0.01	0.10	60	10	127	51.2%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.02	11	0	25	64.5%	4
2020-M04-S01	0.00	0.00	0.01	7	0	17	76.5%	4

Table 11-0-507: Great black-backed gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	8	0	20	66.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.04	19	0	48	67.5%	4
2018-M08-S01	0.00	0.00	0.01	5	0	15	99.1%	4
2018-M09-S01	0.02	0.00	0.05	26	0	58	56.1%	4
2018-M10-S01	0.04	0.00	0.11	51	0	137	76.7%	2
2018-M11-S01	0.28	0.09	0.56	357	108	716	44.7%	2
2018-M12-S01	0.07	0.02	0.13	91	29	170	40.2%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	11	0	30	92.8%	2
2019-M03-S01	0.01	0.00	0.02	11	0	32	93.5%	4
2019-M04-S01	0.01	0.00	0.02	10	0	30	99.3%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.01	0.00	0.03	15	1	33	57.3%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.01	0.00	0.02	11	0	25	57.4%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	14	0	33	64.0%	4
2019-M09-S01	0.14	0.03	0.30	178	33	375	50.5%	4
2019-M10-S01	0.02	0.00	0.04	20	0	49	65.0%	2
2019-M11-S01	0.07	0.03	0.11	90	40	145	29.7%	2
2019-M12-S01	0.02	0.00	0.05	30	0	60	51.2%	2
2020-M01-S01	0.02	0.00	0.06	30	0	77	68.5%	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.00	0.00	0.01	6	0	15	89.3%	4
2020-M04-S01	0.02	0.01	0.03	24	9	41	35.9%	4

Table 11-0-508: Great crested grebe density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	96.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.02	10	0	25	64.9%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-509 Great crested grebe density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-510 Great crested grebe density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	96.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.01	0.00	0.02	11	0	25	64.9%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-511: Great skua density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.01	0.00	0.02	10	0	30	96.9%	2
2018-M11-S01	0.01	0.00	0.03	11	0	38	98.7%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.01	6	0	15	96.8%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.01	0.00	0.02	10	0	30	96.5%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-512: Great skua density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.01	0.00	0.02	11	0	30	92.5%	2
2018-M11-S01	0.01	0.00	0.02	11	0	30	92.4%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.00	0.00	0.01	5	0	15	98.3%	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.01	0.00	0.02	11	0	30	95.8%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-513: Great skua density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-514: Guillemot density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	2.24	1.85	2.65	2787	2295	3310	9.7%	4
2018-M06-S01	1.05	0.79	1.34	1307	987	1664	14.0%	4
2018-M07-S01	1.16	0.72	1.63	1437	907	2029	21.5%	4
2018-M08-S01	12.02	5.16	19.99	14959	6415	24864	32.5%	4
2018-M09-S01	4.49	1.99	7.55	5582	2466	9393	35.8%	4
2018-M10-S01	21.37	7.14	39.63	27045	9049	50226	44.7%	2
2018-M11-S01	4.29	3.51	5.07	5429	4448	6431	10.3%	2
2018-M12-S01	2.67	1.79	3.71	3373	2266	4708	20.6%	2
2019-M01-S01	0.82	0.53	1.13	1042	669	1436	19.9%	2
2019-M02-S01	1.01	0.79	1.29	1275	1004	1639	11.5%	2
2019-M03-S01	0.43	0.25	0.71	554	316	895	29.1%	4
2019-M04-S01	1.71	0.92	2.68	2157	1179	3382	27.4%	4
2019-M04-S02	3.22	2.69	3.83	4073	3399	4850	9.1%	4
2019-M05-S01	4.19	3.63	4.84	5309	4596	6126	7.8%	4
2019-M05-S02	0.46	0.34	0.63	595	434	786	15.1%	4
2019-M06-S01	0.83	0.55	1.14	1059	699	1437	18.6%	4
2019-M06-S02	0.52	0.38	0.65	655	482	833	14.1%	4
2019-M07-S01	1.30	0.54	2.18	1629	682	2755	34.6%	4
2019-M07-S02	0.86	0.37	1.58	1087	467	2006	38.6%	4
2019-M08-S01	0.78	0.30	1.37	980	377	1729	37.9%	4
2019-M08-S02	2.11	0.71	4.12	2660	901	5219	46.8%	4
2019-M09-S01	31.17	18.15	46.08	39456	22978	58336	24.2%	4
2019-M10-S01	6.53	5.09	7.85	8273	6446	9948	12.1%	2
2019-M11-S01	2.53	1.81	3.37	3204	2288	4277	16.3%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	1.37	1.03	1.79	1735	1308	2264	15.6%	2
2020-M01-S01	0.86	0.60	1.16	1094	759	1468	17.5%	2
2020-M02-S01	0.72	0.48	1.04	914	605	1323	15.7%	2
2020-M03-S01	4.72	3.67	5.96	5976	4642	7552	13.7%	4
2020-M04-S01	12.69	8.35	17.53	16063	10569	22198	18.6%	4

Table 11-0-515: Guillemot density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.02	0.06	51	24	80	29.3%	4
2018-M06-S01	0.01	0.00	0.02	10	0	25	68.2%	4
2018-M07-S01	0.01	0.00	0.02	10	0	24	64.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.01	0.00	0.02	11	0	25	62.9%	4
2018-M10-S01	0.10	0.02	0.22	122	20	277	56.5%	2
2018-M11-S01	0.03	0.01	0.06	41	10	78	42.4%	2
2018-M12-S01	0.07	0.04	0.11	90	48	137	26.5%	2
2019-M01-S01	0.02	0.00	0.05	30	0	60	50.3%	2
2019-M02-S01	0.04	0.00	0.15	51	0	187	100.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.03	20	5	39	44.0%	4
2019-M04-S02	0.02	0.00	0.05	30	5	63	50.6%	4
2019-M05-S01	0.03	0.01	0.06	42	19	72	32.0%	4
2019-M05-S02	0.00	0.00	0.02	6	0	20	100.8%	4
2019-M06-S01	0.01	0.00	0.03	19	0	43	61.2%	4
2019-M06-S02	0.01	0.00	0.02	10	0	25	66.5%	4
2019-M07-S01	0.02	0.00	0.03	20	5	39	43.2%	4
2019-M07-S02	0.00	0.00	0.01	5	0	15	98.5%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.03	0.01	0.06	41	10	79	46.4%	4
2019-M10-S01	0.03	0.01	0.07	40	10	86	52.8%	2
2019-M11-S01	0.10	0.02	0.22	131	20	277	50.5%	2
2019-M12-S01	0.02	0.00	0.04	20	0	48	65.1%	2
2020-M01-S01	0.02	0.00	0.05	31	0	68	53.8%	2
2020-M02-S01	0.09	0.01	0.23	111	10	287	74.6%	2
2020-M03-S01	0.11	0.06	0.17	138	71	216	27.4%	4
2020-M04-S01	1.06	0.66	1.55	1347	839	1958	21.4%	4

Table 11-0-516: Guillemot density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	1.67	1.39	1.97	2078	1725	2453	8.9%	4
2018-M06-S01	0.79	0.60	1.00	985	750	1245	13.1%	4
2018-M07-S01	0.87	0.55	1.22	1084	689	1523	19.8%	4
2018-M08-S01	9.13	3.92	15.18	11361	4872	18884	31.5%	4
2018-M09-S01	3.40	1.51	5.72	4231	1873	7115	33.7%	4
2018-M10-S01	17.19	5.76	31.85	21756	7296	40363	39.4%	2
2018-M11-S01	3.44	2.83	4.05	4354	3586	5134	9.0%	2
2018-M12-S01	2.10	1.41	2.91	2653	1792	3694	18.5%	2
2019-M01-S01	0.65	0.43	0.88	818	541	1112	17.8%	2
2019-M02-S01	0.78	0.64	0.93	989	811	1173	9.6%	2
2019-M03-S01	0.33	0.19	0.54	421	240	680	26.7%	4
2019-M04-S01	1.28	0.70	2.01	1623	892	2539	25.6%	4
2019-M04-S02	2.43	2.04	2.87	3071	2578	3636	8.7%	4
2019-M05-S01	3.16	2.75	3.63	4000	3476	4598	7.3%	4
2019-M05-S02	0.35	0.26	0.46	447	330	582	14.5%	4
2019-M06-S01	0.62	0.42	0.84	790	531	1059	17.2%	4
2019-M06-S02	0.39	0.29	0.48	490	366	614	13.0%	4
2019-M07-S01	0.97	0.41	1.63	1222	514	2063	33.0%	4
2019-M07-S02	0.65	0.28	1.19	822	355	1512	35.9%	4
2019-M08-S01	0.59	0.23	1.04	744	286	1313	34.9%	4
2019-M08-S02	1.60	0.54	3.13	2020	684	3964	43.6%	4
2019-M09-S01	23.65	13.78	34.95	29936	17444	44246	22.5%	4
2019-M10-S01	5.25	4.10	6.29	6653	5201	7969	10.7%	2
2019-M11-S01	1.96	1.45	2.55	2483	1833	3232	14.6%	2
2019-M12-S01	1.09	0.83	1.41	1386	1057	1791	13.5%	2
2020-M01-S01	0.68	0.48	0.89	859	613	1131	15.5%	2
2020-M02-S01	0.51	0.38	0.66	649	481	837	13.9%	2
2020-M03-S01	3.50	2.74	4.40	4434	3472	5572	12.2%	4
2020-M04-S01	8.83	5.84	12.14	11177	7390	15372	18.2%	4

Table 11-0-517: Herring gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	10	0	30	94.5%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	6	0	16	101.1%	4
2018-M08-S01	0.01	0.00	0.02	12	0	26	55.4%	4
2018-M09-S01	0.01	0.00	0.02	11	0	25	67.0%	4
2018-M10-S01	0.02	0.00	0.06	30	0	76	67.2%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0.01	0.00	0.02	10	0	30	94.7%	2
2018-M12-S01	0.01	0.00	0.02	10	0	30	95.0%	2
2019-M01-S01	0.04	0.01	0.07	51	19	90	38.9%	2
2019-M02-S01	0.02	0.00	0.05	30	0	60	51.4%	2
2019-M03-S01	0.01	0.00	0.03	11	0	33	93.9%	4
2019-M04-S01	0.00	0.00	0.01	6	0	15	96.8%	4
2019-M04-S02	0.00	0.00	0.01	5	0	15	94.9%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.02	6	0	20	100.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.06	0.01	0.14	72	10	178	68.7%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	18	2	40	58.7%	4
2019-M09-S01	0.00	0.00	0.01	7	1	17	80.7%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.02	0.00	0.04	20	0	49	63.7%	2
2019-M12-S01	0.02	0.00	0.06	30	0	77	68.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.04	21	0	49	65.5%	2
2020-M03-S01	0.02	0.01	0.04	31	10	54	35.0%	4
2020-M04-S01	0.02	0.01	0.04	31	11	53	35.6%	4

Table 11-0-518: Herring gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	10	0	30	97.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.02	6	0	19	99.6%	4
2018-M08-S01	0.01	0.00	0.01	7	0	17	71.6%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	30	0	77	67.5%	2
2018-M11-S01	0.01	0.00	0.02	11	0	30	92.9%	2
2018-M12-S01	0.01	0.00	0.02	10	0	30	100.3%	2
2019-M01-S01	0.03	0.01	0.06	41	10	78	44.3%	2
2019-M02-S01	0.02	0.00	0.05	31	0	67	51.4%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.01	6	0	19	98.3%	4
2019-M04-S02	0.00	0.00	0.01	5	0	15	96.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.02	0.00	0.04	22	0	46	53.9%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0.02	0.00	0.04	21	0	49	62.8%	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	96.1%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	10	0	30	98.4%	2
2020-M03-S01	0.02	0.00	0.04	25	5	45	40.9%	4
2020-M04-S01	0.02	0.00	0.04	24	5	45	42.1%	4

Table 11-0-519: Herring gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.00	0.00	0.01	5	0	15	99.1%	4
2018-M09-S01	0.01	0.00	0.02	11	0	25	64.2%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.01	0.00	0.02	10	0	30	99.6%	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.01	0.00	0.03	11	0	33	96.7%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.00	0.00	0.01	5	0	15	103.1%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.04	0.00	0.11	49	0	139	86.8%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.03	17	1	38	59.5%	4
2019-M09-S01	0.00	0.00	0.01	6	1	16	80.2%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.05	20	0	60	96.3%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	10	0	30	94.9%	2
2020-M03-S01	0.00	0.00	0.01	6	0	15	90.4%	4
2020-M04-S01	0.00	0.00	0.02	7	0	20	83.0%	4

Table 11-0-520: Kestrel density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.02	11	0	25	63.4%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-521: Kestrel density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.02	11	0	25	63.2%	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-522: Kestrel density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-523: Kittiwake density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.64	0.30	1.05	797	378	1310	29.5%	4
2018-M06-S01	0.83	0.50	1.19	1037	620	1485	21.0%	4
2018-M07-S01	0.30	0.13	0.50	368	163	620	31.5%	4
2018-M08-S01	1.70	0.69	2.95	2118	855	3674	34.7%	4
2018-M09-S01	0.60	0.28	1.00	741	343	1248	32.9%	4
2018-M10-S01	2.76	0.32	6.86	3491	403	8689	67.1%	2
2018-M11-S01	0.21	0.16	0.27	270	197	343	13.8%	2
2018-M12-S01	0.10	0.02	0.21	131	20	268	48.6%	2
2019-M01-S01	0.10	0.05	0.16	129	68	198	26.3%	2
2019-M02-S01	0.16	0.06	0.27	199	79	341	34.2%	2
2019-M03-S01	0.05	0.01	0.10	62	17	122	47.0%	4
2019-M04-S01	0.89	0.48	1.35	1130	607	1704	25.0%	4
2019-M04-S02	1.25	0.89	1.62	1581	1127	2053	14.8%	4
2019-M05-S01	0.46	0.29	0.64	587	364	809	19.7%	4
2019-M05-S02	0.37	0.19	0.60	470	244	766	28.9%	4
2019-M06-S01	0.17	0.05	0.35	220	62	440	44.8%	4
2019-M06-S02	0.10	0.02	0.21	122	20	272	57.4%	4
2019-M07-S01	0.27	0.15	0.40	338	194	509	24.7%	4
2019-M07-S02	0.12	0.05	0.21	155	68	261	32.2%	4
2019-M08-S01	0.04	0.01	0.09	56	10	113	47.7%	4
2019-M08-S02	0.35	0.14	0.69	443	182	872	41.6%	4
2019-M09-S01	4.11	2.40	5.90	5210	3039	7464	22.1%	4
2019-M10-S01	0.14	0.06	0.24	180	79	310	32.9%	2
2019-M11-S01	0.02	0.00	0.06	30	0	79	71.4%	2
2019-M12-S01	0.22	0.14	0.31	280	174	391	20.0%	2
2020-M01-S01	0.12	0.05	0.19	150	68	244	30.5%	2
2020-M02-S01	0.11	0.06	0.16	140	79	206	23.2%	2
2020-M03-S01	0.13	0.09	0.18	165	109	226	19.2%	4
2020-M04-S01	3.59	2.46	4.90	4541	3120	6208	16.9%	4

Table 11-0-524: Kittiwake density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.29	0.13	0.49	363	162	616	31.5%	4
2018-M06-S01	0.21	0.12	0.33	264	144	415	26.6%	4
2018-M07-S01	0.08	0.03	0.15	95	34	183	42.8%	4
2018-M08-S01	0.48	0.18	0.82	592	223	1021	34.2%	4
2018-M09-S01	0.34	0.12	0.69	419	155	858	44.1%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0.79	0.08	1.92	996	96	2435	66.4%	2
2018-M11-S01	0.12	0.07	0.17	151	88	219	22.1%	2
2018-M12-S01	0.09	0.02	0.18	110	20	231	51.3%	2
2019-M01-S01	0.09	0.05	0.13	111	59	167	24.0%	2
2019-M02-S01	0.08	0.02	0.16	107	29	204	42.0%	2
2019-M03-S01	0.01	0.00	0.02	11	0	31	86.4%	4
2019-M04-S01	0.54	0.31	0.81	688	392	1025	23.2%	4
2019-M04-S02	0.49	0.33	0.64	621	417	805	15.8%	4
2019-M05-S01	0.11	0.05	0.20	141	58	251	35.4%	4
2019-M05-S02	0.12	0.07	0.19	156	84	237	24.9%	4
2019-M06-S01	0.02	0.00	0.04	26	5	50	44.9%	4
2019-M06-S02	0.05	0.01	0.11	67	15	141	48.8%	4
2019-M07-S01	0.18	0.11	0.27	235	141	342	21.8%	4
2019-M07-S02	0.02	0.01	0.03	25	10	43	34.7%	4
2019-M08-S01	0.02	0.00	0.06	31	0	75	64.2%	4
2019-M08-S02	0.05	0.03	0.08	69	35	105	25.7%	4
2019-M09-S01	1.27	0.87	1.74	1612	1103	2199	17.4%	4
2019-M10-S01	0.08	0.02	0.15	99	29	188	42.2%	2
2019-M11-S01	0.02	0.00	0.06	30	0	79	71.9%	2
2019-M12-S01	0.16	0.08	0.24	199	98	309	27.0%	2
2020-M01-S01	0.06	0.02	0.12	81	28	146	39.5%	2
2020-M02-S01	0.04	0.01	0.08	51	10	97	43.5%	2
2020-M03-S01	0.08	0.05	0.12	105	68	148	19.3%	4
2020-M04-S01	1.51	1.08	1.93	1907	1367	2447	14.5%	4

Table 11-0-525: Kittiwake density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.35	0.14	0.64	437	176	794	38.0%	4
2018-M06-S01	0.63	0.34	0.91	778	420	1132	24.1%	4
2018-M07-S01	0.22	0.09	0.36	274	115	452	31.7%	4
2018-M08-S01	1.26	0.47	2.16	1565	588	2684	35.6%	4
2018-M09-S01	0.25	0.04	0.55	315	50	686	51.6%	4
2018-M10-S01	1.97	0.22	4.84	2492	284	6140	65.0%	2
2018-M11-S01	0.09	0.05	0.14	120	69	178	23.1%	2
2018-M12-S01	0.02	0.00	0.05	20	0	60	93.6%	2
2019-M01-S01	0.02	0.00	0.04	21	0	49	63.3%	2
2019-M02-S01	0.07	0.02	0.12	90	30	157	34.6%	2
2019-M03-S01	0.04	0.01	0.08	52	10	103	45.0%	4
2019-M04-S01	0.37	0.14	0.63	465	178	801	34.1%	4
2019-M04-S02	0.76	0.48	1.08	963	610	1364	20.4%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S01	0.35	0.19	0.52	445	247	653	23.7%	4
2019-M05-S02	0.24	0.09	0.44	307	119	557	37.9%	4
2019-M06-S01	0.15	0.04	0.31	193	49	395	45.2%	4
2019-M06-S02	0.04	0.00	0.10	57	5	132	60.7%	4
2019-M07-S01	0.09	0.03	0.17	109	34	218	43.6%	4
2019-M07-S02	0.10	0.04	0.18	131	51	222	34.5%	4
2019-M08-S01	0.02	0.00	0.04	25	0	55	54.9%	4
2019-M08-S02	0.29	0.09	0.60	368	116	754	47.5%	4
2019-M09-S01	2.81	1.33	4.55	3553	1683	5761	29.0%	4
2019-M10-S01	0.06	0.03	0.10	80	39	127	29.0%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.06	0.03	0.10	80	39	126	28.4%	2
2020-M01-S01	0.06	0.01	0.11	71	19	141	45.6%	2
2020-M02-S01	0.07	0.03	0.13	90	38	159	35.9%	2
2020-M03-S01	0.05	0.02	0.08	61	25	101	31.7%	4
2020-M04-S01	2.11	1.36	2.96	2668	1716	3741	19.4%	4

Table 11-0-526: Knot density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.16	0.00	0.47	203	0	593	89.3%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-527: Knot density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.16	0.00	0.47	204	0	599	92.4%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-528: Knot density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-529: Lapwing density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	10	0	30	97.8%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-530: Lapwing density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.01	0.00	0.02	10	0	30	100.2%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-531: Lapwing density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 3-0-532: Lesser black-backed gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	8	0	22	77.2%	4
2018-M06-S01	0.11	0.04	0.20	140	50	247	37.0%	4
2018-M07-S01	0.18	0.10	0.28	219	119	351	27.5%	4
2018-M08-S01	0.11	0.04	0.19	132	50	231	35.9%	4
2018-M09-S01	0.00	0.00	0.01	6	0	15	92.7%	4
2018-M10-S01	0.02	0.00	0.06	31	0	76	66.5%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.01	0.04	31	10	55	38.0%	4
2019-M04-S02	0.05	0.01	0.10	64	18	124	43.2%	4
2019-M05-S01	0.07	0.01	0.17	92	15	215	60.7%	4
2019-M05-S02	0.04	0.00	0.09	46	5	112	65.3%	4
2019-M06-S01	0.15	0.01	0.42	191	10	536	84.2%	4
2019-M06-S02	0.04	0.02	0.06	51	25	81	29.1%	4
2019-M07-S01	0.23	0.06	0.52	286	77	657	58.3%	4
2019-M07-S02	0.07	0.03	0.12	90	40	156	33.9%	4
2019-M08-S01	0.00	0.00	0.01	5	0	15	95.2%	4
2019-M08-S02	0.08	0.03	0.14	98	38	173	35.9%	4
2019-M09-S01	0.02	0.00	0.03	21	6	39	41.1%	4
2019-M10-S01	0.02	0.00	0.04	20	0	49	66.5%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	94.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	11	0	30	94.8%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.00	0.00	0.01	6	0	19	98.1%	4

Table 11-0-533: Lesser black-backed gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.08	0.04	0.14	105	49	174	32.1%	4
2018-M07-S01	0.05	0.02	0.08	60	24	104	35.5%	4
2018-M08-S01	0.04	0.02	0.06	47	20	77	30.4%	4
2018-M09-S01	0.00	0.00	0.01	5	0	15	101.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.02	0.00	0.04	25	5	50	45.7%	4
2019-M04-S02	0.02	0.01	0.04	31	10	55	37.9%	4
2019-M05-S01	0.02	0.00	0.04	22	0	48	53.0%	4
2019-M05-S02	0.02	0.00	0.05	21	0	60	94.7%	4
2019-M06-S01	0.04	0.01	0.10	50	10	129	62.2%	4
2019-M06-S02	0.03	0.01	0.06	40	15	73	37.8%	4
2019-M07-S01	0.09	0.04	0.13	110	55	166	25.3%	4
2019-M07-S02	0.04	0.01	0.09	56	19	109	42.1%	4
2019-M08-S01	0.00	0.00	0.01	5	0	15	92.6%	4
2019-M08-S02	0.04	0.02	0.06	50	25	74	25.5%	4
2019-M09-S01	0.01	0.00	0.02	16	5	30	49.1%	4
2019-M10-S01	0.01	0.00	0.02	11	0	30	91.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	95.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.00	0.00	0.01	6	0	15	91.6%	4

Table 11-0-534: Lesser black-backed gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	8	0	20	72.8%	4
2018-M06-S01	0.02	0.00	0.05	25	0	65	73.4%	4
2018-M07-S01	0.13	0.07	0.22	161	83	268	29.5%	4
2018-M08-S01	0.06	0.02	0.13	80	20	157	45.9%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.02	0.00	0.06	30	0	77	68.6%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.01	6	0	15	92.9%	4
2019-M04-S02	0.03	0.00	0.07	34	1	87	67.7%	4
2019-M05-S01	0.06	0.00	0.14	70	5	182	73.9%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0.02	0.00	0.04	25	5	49	45.7%	4
2019-M06-S01	0.11	0.00	0.33	138	0	416	93.7%	4
2019-M06-S02	0.01	0.00	0.02	11	0	25	64.4%	4
2019-M07-S01	0.14	0.01	0.46	179	11	577	83.5%	4
2019-M07-S02	0.03	0.01	0.05	35	15	60	33.0%	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.09	49	0	112	59.6%	4
2019-M09-S01	0.00	0.00	0.01	6	1	16	87.4%	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	96.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-535: Little gull density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.02	6	0	19	96.5%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	1.15	0.43	2.16	1456	550	2741	39.1%	2
2018-M11-S01	0.19	0.10	0.30	240	125	377	26.9%	2
2018-M12-S01	0.02	0.00	0.04	21	0	50	66.5%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.03	16	0	34	53.6%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.02	10	0	25	68.2%	4
2019-M09-S01	0.04	0.02	0.07	56	22	94	32.9%	4
2019-M10-S01	1.37	0.93	1.87	1741	1178	2372	17.7%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.04	20	0	50	70.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.02	11	0	25	64.7%	4

Table 11-0-536: Little gull density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.00	0.00	0.01	5	0	15	93.0%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.60	0.19	1.20	756	239	1518	43.2%	2
2018-M11-S01	0.16	0.08	0.24	199	106	305	26.1%	2
2018-M12-S01	0.01	0.00	0.02	10	0	30	98.6%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0.01	0.00	0.02	15	0	30	53.5%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.01	0.00	0.02	10	0	24	65.2%	4
2019-M09-S01	0.04	0.02	0.07	56	21	95	34.2%	4
2019-M10-S01	1.03	0.66	1.44	1300	841	1823	19.9%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.01	0.00	0.03	10	0	39	101.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-537: Little gull density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.56	0.15	1.09	707	189	1382	43.7%	2
2018-M11-S01	0.03	0.01	0.06	40	10	79	47.0%	2
2018-M12-S01	0.01	0.00	0.02	10	0	30	97.2%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.35	0.20	0.50	438	257	640	22.4%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	96.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0.01	0.00	0.02	11	0	25	63.6%	4

Table 11-0-538: Little tern density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.00	0.00	0.01	5	0	16	97.4%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	16	0	45	93.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-539: Little tern density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0.00	0.00	0.01	6	0	16	92.5%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	16	0	45	92.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-540: Little tern density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-541: Long-tailed skua density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.00	0.00	0.01	6	0	15	92.1%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-542: Long-tailed skua density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0.00	0.00	0.01	5	0	15	95.7%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-543: Long-tailed skua density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-544: Manx shearwater density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.01	0.00	0.04	19	0	56	93.2%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0.00	0.00	0.01	6	0	17	95.9%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.05	0.00	0.16	69	0	207	95.6%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.07	31	0	90	94.7%	4
2019-M10-S01	0.21	0.05	0.45	268	59	572	52.2%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-545: Manx shearwater density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.03	0.01	0.06	40	10	76	42.8%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-546: Manx shearwater density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.02	0.00	0.05	20	0	57	96.0%	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.06	0.00	0.16	71	0	207	93.2%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.02	0.00	0.07	31	0	90	93.1%	4
2019-M10-S01	0.17	0.02	0.41	220	28	518	61.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-547: Oystercatcher density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.00	0.03	20	5	43	51.2%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-548: Oystercatcher density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.02	0.00	0.04	20	0	45	55.7%	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-549: Oystercatcher density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-550: Pomarine skua density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.01	0.00	0.02	11	0	30	94.8%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-551: Pomarine skua density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.01	0.00	0.02	11	0	30	94.6%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-552: Pomarine skua density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-553: Puffin density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	14	0	31	71.4%	4
2018-M06-S01	0.02	0.01	0.03	28	12	45	39.3%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.01	0.06	43	12	79	51.2%	4
2018-M09-S01	0.01	0.00	0.02	14	5	28	57.1%	4
2018-M10-S01	0.10	0.02	0.20	123	22	251	60.9%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.05	35	0	68	64.6%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.02	9	2	24	88.9%	4
2019-M04-S02	0.00	0.00	0.01	7	1	19	100.0%	4
2019-M05-S01	0.02	0.00	0.07	37	0	97	86.5%	4
2019-M05-S02	0.01	0.00	0.01	8	0	22	100.0%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.05	0.02	0.09	66	24	118	45.5%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.01	0.00	0.01	10	0	22	80.0%	4
2019-M08-S02	0.01	0.00	0.01	8	0	21	100.0%	4
2019-M09-S01	0.20	0.10	0.31	256	133	393	33.6%	4
2019-M10-S01	0.05	0.00	0.12	58	0	155	95.1%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0.02	0.00	0.05	34	0	68	62.4%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.06	0.02	0.10	82	34	136	40.2%	4
2020-M04-S01	0.02	0.00	0.05	29	8	56	55.2%	4

Table 11-0-554: Puffin density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-555: Puffin density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	12	0	27	54.8%	4
2018-M06-S01	0.02	0.01	0.03	24	10	39	32.3%	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0.03	0.01	0.05	37	10	68	40.8%	4
2018-M09-S01	0.01	0.00	0.02	12	4	24	45.0%	4
2018-M10-S01	0.09	0.01	0.17	108	19	220	48.7%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0.02	0.00	0.05	31	0	60	50.6%	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.01	0.00	0.02	8	2	21	75.6%	4
2019-M04-S02	0.00	0.00	0.01	6	1	16	87.3%	4
2019-M05-S01	0.02	0.00	0.06	32	0	83	69.5%	4
2019-M05-S02	0.01	0.00	0.01	7	0	19	73.2%	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0.04	0.02	0.08	57	21	101	36.6%	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0.01	0.00	0.01	9	0	19	63.0%	4
2019-M08-S02	0.01	0.00	0.01	7	0	18	80.2%	4
2019-M09-S01	0.17	0.09	0.27	220	114	337	27.0%	4
2019-M10-S01	0.04	0.00	0.11	51	0	136	76.6%	2
2019-M11-S01	0.02	0.00	0.05	30	0	60	50.1%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0.05	0.02	0.09	70	29	117	32.3%	4
2020-M04-S01	0.02	0.00	0.04	25	7	48	44.1%	4

Table 11-0-556: Razorbill density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.05	0.02	0.09	66	28	110	37.9%	4
2018-M06-S01	0.04	0.01	0.06	45	20	76	42.2%	4
2018-M07-S01	0.02	0.00	0.05	24	1	60	79.2%	4
2018-M08-S01	0.79	0.29	1.36	991	365	1694	41.7%	4
2018-M09-S01	0.30	0.11	0.54	366	144	666	37.2%	4
2018-M10-S01	8.70	4.15	14.90	11013	5261	18887	38.3%	2
2018-M11-S01	3.31	2.78	3.85	4192	3526	4881	9.8%	2
2018-M12-S01	0.96	0.69	1.25	1210	877	1584	17.1%	2
2019-M01-S01	0.11	0.04	0.18	129	45	232	47.7%	2
2019-M02-S01	0.79	0.44	1.21	1001	564	1537	30.9%	2
2019-M03-S01	0.34	0.09	0.69	430	115	878	50.2%	4
2019-M04-S01	0.33	0.16	0.56	422	203	713	37.9%	4
2019-M04-S02	0.27	0.16	0.37	336	207	477	21.4%	4
2019-M05-S01	0.28	0.15	0.41	352	191	525	24.2%	4
2019-M05-S02	0.11	0.01	0.22	123	22	281	52.9%	4
2019-M06-S01	0.11	0.02	0.24	151	37	304	49.7%	4
2019-M06-S02	0.06	0.01	0.11	76	15	147	52.6%	4
2019-M07-S01	0.11	0.02	0.20	133	35	249	46.6%	4
2019-M07-S02	0.01	0.00	0.02	13	1	31	76.9%	4
2019-M08-S01	0.02	0.00	0.06	26	1	73	103.9%	4
2019-M08-S02	0.10	0.02	0.20	122	26	244	52.5%	4
2019-M09-S01	6.24	3.40	9.15	7902	4300	11590	26.5%	4
2019-M10-S01	5.85	4.04	7.80	7401	5115	9887	19.5%	2
2019-M11-S01	1.09	0.74	1.50	1393	934	1902	19.5%	2
2019-M12-S01	2.02	1.64	2.45	2562	2076	3105	12.4%	2
2020-M01-S01	0.06	0.01	0.13	82	12	169	60.4%	2
2020-M02-S01	0.64	0.31	0.98	800	396	1241	23.7%	2
2020-M03-S01	0.52	0.31	0.83	654	383	1047	24.2%	4
2020-M04-S01	4.55	2.66	6.89	5754	3360	8718	28.1%	4

Table 11-0-557: Razorbill density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.03	0.00	0.08	34	0	95	82.5%	4
2018-M10-S01	0.05	0.00	0.12	60	0	148	65.2%	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0.01	0.00	0.02	10	0	30	96.4%	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0.02	0.00	0.05	22	0	69	98.8%	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0.01	0.00	0.02	10	0	30	96.4%	4
2019-M05-S01	0.02	0.00	0.04	24	0	56	61.2%	4
2019-M05-S02	0.02	0.00	0.04	20	0	50	67.7%	4
2019-M06-S01	0.00	0.00	0.02	7	0	20	79.0%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.03	15	0	40	77.6%	4
2019-M10-S01	0.14	0.07	0.21	180	90	270	25.7%	2
2019-M11-S01	0.05	0.01	0.11	70	10	145	49.6%	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.10	0.02	0.18	121	20	234	46.2%	2
2020-M03-S01	0.04	0.00	0.12	56	3	150	80.2%	4
2020-M04-S01	0.28	0.18	0.39	360	225	493	19.6%	4

Table 11-0-558: Razorbill density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.04	0.02	0.07	54	23	90	32.7%	4
2018-M06-S01	0.03	0.01	0.05	37	16	62	35.2%	4
2018-M07-S01	0.02	0.00	0.04	20	1	49	64.6%	4
2018-M08-S01	0.65	0.24	1.11	811	299	1386	35.2%	4
2018-M09-S01	0.22	0.09	0.38	272	118	467	33.6%	4
2018-M10-S01	7.37	3.54	12.59	9330	4481	15962	31.9%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	2.82	2.37	3.28	3571	3003	4158	8.2%	2
2018-M12-S01	0.81	0.59	1.04	1022	747	1324	14.4%	2
2019-M01-S01	0.09	0.03	0.16	110	38	198	38.7%	2
2019-M02-S01	0.67	0.38	1.03	853	480	1309	25.8%	2
2019-M03-S01	0.26	0.07	0.52	334	94	662	45.2%	4
2019-M04-S01	0.27	0.13	0.46	345	166	583	31.9%	4
2019-M04-S02	0.21	0.13	0.29	267	169	366	18.7%	4
2019-M05-S01	0.21	0.12	0.30	268	156	384	22.2%	4
2019-M05-S02	0.07	0.01	0.15	84	18	189	54.8%	4
2019-M06-S01	0.09	0.02	0.18	118	30	232	45.3%	4
2019-M06-S02	0.05	0.01	0.09	62	12	120	44.2%	4
2019-M07-S01	0.09	0.02	0.16	109	29	204	40.2%	4
2019-M07-S02	0.01	0.00	0.02	11	1	25	58.5%	4
2019-M08-S01	0.02	0.00	0.05	21	1	60	93.3%	4
2019-M08-S02	0.08	0.02	0.16	100	21	200	45.1%	4
2019-M09-S01	5.10	2.78	7.46	6453	3518	9450	23.2%	4
2019-M10-S01	4.86	3.38	6.46	6151	4280	8192	16.5%	2
2019-M11-S01	0.89	0.62	1.18	1127	787	1497	16.3%	2
2019-M12-S01	1.72	1.39	2.09	2182	1768	2645	10.3%	2
2020-M01-S01	0.05	0.01	0.11	70	10	144	49.4%	2
2020-M02-S01	0.46	0.25	0.68	578	320	858	23.9%	2
2020-M03-S01	0.39	0.25	0.58	489	311	734	22.2%	4
2020-M04-S01	3.49	2.03	5.32	4413	2565	6730	25.7%	4

Table 11-0-559: Red-throated diver density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	11	0	30	92.7%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.05	0.02	0.10	70	20	127	38.4%	2
2018-M11-S01	0.13	0.03	0.25	161	39	312	43.5%	2
2018-M12-S01	0.03	0.01	0.06	41	10	79	45.7%	2
2019-M01-S01	0.02	0.00	0.05	21	0	60	93.3%	2
2019-M02-S01	0.05	0.02	0.08	60	20	103	34.1%	2
2019-M03-S01	0.43	0.09	1.05	547	114	1325	60.5%	4
2019-M04-S01	0.17	0.12	0.24	221	153	306	17.5%	4
2019-M04-S02	0.02	0.01	0.04	30	14	48	31.1%	4
2019-M05-S01	0.01	0.00	0.03	17	0	33	51.5%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.05	0.01	0.09	59	15	114	41.7%	4
2019-M10-S01	0.05	0.02	0.08	60	20	103	34.5%	2
2019-M11-S01	0.16	0.07	0.27	199	95	338	32.3%	2
2019-M12-S01	0.01	0.00	0.02	10	0	30	96.2%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.03	0.00	0.07	40	0	89	56.0%	2
2020-M03-S01	0.14	0.07	0.21	172	91	266	26.2%	4
2020-M04-S01	0.04	0.02	0.06	46	20	73	28.8%	4

Table 11-0-560: Red-throated diver density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.01	0.00	0.02	10	0	30	96.5%	2
2018-M11-S01	0.01	0.00	0.03	11	0	38	101.8%	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0.01	0.00	0.02	11	0	30	90.0%	2
2019-M02-S01	0.01	0.00	0.02	11	0	30	92.7%	2
2019-M03-S01	0.01	0.00	0.03	10	0	32	96.8%	4
2019-M04-S01	0.00	0.00	0.01	6	0	15	91.1%	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.01	0.00	0.02	10	0	30	95.7%	4
2019-M10-S01	0.02	0.00	0.04	20	0	49	64.1%	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	11	0	30	94.0%	2
2020-M03-S01	0.01	0.00	0.02	16	0	30	53.5%	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-561: Red-throated diver density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.01	0.00	0.02	11	0	30	92.4%	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0.05	0.01	0.09	61	19	117	43.7%	2
2018-M11-S01	0.12	0.03	0.23	151	39	297	43.6%	2
2018-M12-S01	0.03	0.01	0.06	40	10	79	46.3%	2
2019-M01-S01	0.01	0.00	0.02	11	0	30	92.6%	2
2019-M02-S01	0.04	0.01	0.07	50	19	90	38.5%	2
2019-M03-S01	0.42	0.08	1.02	536	107	1289	63.5%	4
2019-M04-S01	0.17	0.11	0.23	217	143	297	18.0%	4
2019-M04-S02	0.02	0.01	0.04	31	15	49	30.5%	4
2019-M05-S01	0.01	0.00	0.03	17	0	36	51.2%	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0.04	0.01	0.07	50	15	93	39.9%	4
2019-M10-S01	0.03	0.01	0.06	40	10	79	46.0%	2
2019-M11-S01	0.16	0.08	0.26	200	97	335	30.9%	2
2019-M12-S01	0.01	0.00	0.02	11	0	30	98.8%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.02	0.00	0.05	30	0	66	53.2%	2
2020-M03-S01	0.12	0.07	0.19	154	83	236	25.9%	4
2020-M04-S01	0.04	0.02	0.06	46	20	75	30.4%	4

Table 11-0-562: Sandwich tern density and abundance estimates in aerial survey study area by survey – all birds (design-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.96	0.77	1.14	1189	957	1418	10.1%	4
2018-M06-S01	0.33	0.20	0.46	406	245	577	21.5%	4
2018-M07-S01	2.06	1.45	2.73	2564	1805	3393	15.9%	4
2018-M08-S01	0.08	0.04	0.13	106	54	159	26.0%	4
2018-M09-S01	0.05	0.00	0.14	65	5	180	76.6%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.24	0.07	0.52	309	89	653	46.5%	4
2019-M04-S02	0.65	0.31	1.03	824	389	1307	28.7%	4
2019-M05-S01	0.59	0.43	0.79	746	543	996	15.5%	4
2019-M05-S02	0.43	0.31	0.56	551	394	706	14.7%	4
2019-M06-S01	0.37	0.21	0.57	468	266	724	26.3%	4
2019-M06-S02	0.65	0.39	1.00	825	493	1269	23.7%	4
2019-M07-S01	0.10	0.05	0.16	131	67	200	25.8%	4
2019-M07-S02	0.16	0.08	0.24	200	107	307	25.7%	4
2019-M08-S01	0.13	0.06	0.20	161	75	260	29.5%	4
2019-M08-S02	0.09	0.02	0.16	111	30	198	39.4%	4
2019-M09-S01	0.10	0.05	0.17	132	63	217	30.0%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-563: Sandwich tern density and abundance estimates in aerial survey study area by survey – all birds (model-based density and abundance estimates)

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.99	0.60	1.54	1251	765	1953	26.0%	4
2018-M06-S01	0.36	0.15	0.76	456	185	965	48.4%	4
2018-M07-S01	2.13	1.48	2.97	2700	1870	3755	25.0%	4
2018-M08-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M09-S01	nd	nd	nd	nd	nd	nd	nd	4
2018-M10-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.51	0.20	1.11	649	254	1401	67.5%	4
2019-M04-S02	0.52	0.20	1.13	653	251	1431	69.0%	4
2019-M05-S01	0.52	0.32	0.81	662	408	1023	24.8%	4
2019-M05-S02	0.54	0.33	0.84	678	415	1060	25.5%	4
2019-M06-S01	0.56	0.27	1.06	713	347	1338	38.4%	4
2019-M06-S02	0.51	0.26	0.92	648	331	1168	37.7%	4
2019-M07-S01	0.15	0.06	0.30	186	80	385	45.2%	4
2019-M07-S02	0.14	0.06	0.29	176	76	364	45.3%	4
2019-M08-S01	0.12	0.05	0.28	155	57	360	78.3%	4
2019-M08-S02	0.12	0.04	0.29	155	57	364	79.3%	4
2019-M09-S01	0.12	0.04	0.31	156	49	396	152.4%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-564: Sandwich tern density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0.95	0.77	1.13	1177	952	1403	9.9%	4
2018-M06-S01	0.32	0.19	0.45	401	241	566	21.0%	4
2018-M07-S01	2.01	1.35	2.63	2500	1674	3277	16.1%	4
2018-M08-S01	0.08	0.04	0.13	106	55	163	26.0%	4
2018-M09-S01	0.02	0.00	0.06	30	5	74	58.4%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.24	0.07	0.48	306	91	612	45.9%	4
2019-M04-S02	0.60	0.28	0.98	758	352	1243	30.5%	4
2019-M05-S01	0.54	0.38	0.71	681	480	897	15.7%	4
2019-M05-S02	0.43	0.30	0.57	539	380	716	16.1%	4
2019-M06-S01	0.33	0.21	0.46	414	263	587	20.0%	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M06-S02	0.65	0.38	1.00	822	479	1271	25.4%	4
2019-M07-S01	0.10	0.05	0.16	132	68	207	26.7%	4
2019-M07-S02	0.16	0.09	0.25	199	109	313	26.4%	4
2019-M08-S01	0.12	0.06	0.20	158	75	255	29.7%	4
2019-M08-S02	0.09	0.02	0.16	113	31	209	41.2%	4
2019-M09-S01	0.11	0.05	0.17	133	63	217	30.5%	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-565: Sandwich tern density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0.02	0.00	0.06	26	0	74	92.4%	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0.03	0.00	0.08	36	0	105	97.1%	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0.00	0.00	0.01	5	0	15	99.0%	4
2019-M04-S02	0.05	0.00	0.10	61	0	133	55.4%	4
2019-M05-S01	0.05	0.01	0.12	68	11	150	56.7%	4
2019-M05-S02	0.01	0.00	0.02	11	0	30	90.8%	4
2019-M06-S01	0.04	0.00	0.12	52	0	150	90.7%	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-566: Shag density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	10	0	30	97.8%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-567: Shag density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-568: Shag density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0.01	0.00	0.02	10	0	30	97.2%	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-569: Shelduck density and abundance estimates in aerial survey study area – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.12	53	0	150	93.8%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-570: Shelduck density and abundance estimates in aerial survey study area – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0.04	0.00	0.12	50	0	148	94.5%	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-571: Shelduck density and abundance estimates in aerial survey study area – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-572: Tufted duck density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.05	20	0	60	95.5%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-573: Tufted duck density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0	0	0	0	0	0	-	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0.02	0.00	0.05	20	0	60	99.6%	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-574: Tufted duck density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

Table 11-0-575: Woodpigeon density and abundance estimates in aerial survey study area by survey – all birds

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4
2019-M10-S01	0.01	0.00	0.02	10	0	30	94.6%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-576: Woodpigeon density and abundance estimates in aerial survey study area by survey – birds in flight

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2018-M05-S01	0	0	0	0	0	0	-	4
2018-M06-S01	0	0	0	0	0	0	-	4
2018-M07-S01	0	0	0	0	0	0	-	4
2018-M08-S01	0	0	0	0	0	0	-	4
2018-M09-S01	0	0	0	0	0	0	-	4
2018-M10-S01	0	0	0	0	0	0	-	2
2018-M11-S01	0	0	0	0	0	0	-	2
2018-M12-S01	0	0	0	0	0	0	-	2
2019-M01-S01	0	0	0	0	0	0	-	2
2019-M02-S01	0	0	0	0	0	0	-	2
2019-M03-S01	0	0	0	0	0	0	-	4
2019-M04-S01	0	0	0	0	0	0	-	4
2019-M04-S02	0	0	0	0	0	0	-	4
2019-M05-S01	0	0	0	0	0	0	-	4
2019-M05-S02	0	0	0	0	0	0	-	4
2019-M06-S01	0	0	0	0	0	0	-	4
2019-M06-S02	0	0	0	0	0	0	-	4
2019-M07-S01	0	0	0	0	0	0	-	4
2019-M07-S02	0	0	0	0	0	0	-	4
2019-M08-S01	0	0	0	0	0	0	-	4
2019-M08-S02	0	0	0	0	0	0	-	4
2019-M09-S01	0	0	0	0	0	0	-	4

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
2019-M10-S01	0.01	0.00	0.02	11	0	30	96.1%	2
2019-M11-S01	0	0	0	0	0	0	-	2
2019-M12-S01	0	0	0	0	0	0	-	2
2020-M01-S01	0	0	0	0	0	0	-	2
2020-M02-S01	0	0	0	0	0	0	-	2
2020-M03-S01	0	0	0	0	0	0	-	4
2020-M04-S01	0	0	0	0	0	0	-	4

Table 11-0-577: Woodpigeon density and abundance estimates in aerial survey study area by survey – birds on sea

Survey ID	Density			Abundance			CV	Number of Cameras
	Mean	95% LCI	95% UCI	Mean	95% LCI	95% UCI		
All surveys	0	0	0	0	0	0	-	-

11.1.6 ANNEX 2: Flying Seabird Density by Month

11.1.6.1 DEP

Table 11-0-578: Arctic tern flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.107	0.657
May	0.000	0.007	0.029
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-579: Black-headed gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.045	0.245
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.053	0.322
August	0.000	0.043	0.259
September	0.000	0.000	0.000
October	0.000	0.101	0.387
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-580: Common gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.013	0.115
May	0.000	0.017	0.121
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.130	0.586
November	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
December	0.000	0.000	0.000

Table 11-0-581: Common tern flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.360	1.894
May	0.000	0.143	0.592
June	0.000	0.036	0.262
July	0.000	0.000	0.000
August	0.000	0.107	0.407
September	0.000	0.193	1.544
October	0.000	0.040	0.241
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-582: Cormorant flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.013	0.089
August	0.000	0.030	0.185
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-583: Fulmar flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.017	0.099
June	0.000	0.000	0.000
July	0.000	0.013	0.090
August	0.000	0.000	0.000
September	0.000	0.065	0.251
October	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-584: Gannet flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.085	0.400
April	0.038	0.283	0.658
May	0.000	0.033	0.140
June	0.000	0.030	0.177
July	0.000	0.030	0.131
August	0.000	0.030	0.123
September	0.000	0.130	0.336
October	0.000	0.495	1.701
November	0.000	0.645	1.281
December	0.000	0.090	0.355

Table 11-0-585: Great black-backed gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.045	0.238
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.013	0.122
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.020	0.123
September	0.000	0.000	0.000
October	0.000	0.090	0.256
November	0.000	0.000	0.000
December	0.000	0.045	0.255

Table 11-0-586: Guillemot flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.045	0.245
April	0.000	0.700	3.035
May	0.000	0.017	0.145
June	0.000	0.023	0.122
July	0.000	0.017	0.115
August	0.000	0.000	0.000
September	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
October	0.000	0.000	0.000
November	0.000	0.045	0.262
December	0.000	0.045	0.262

Table 11-0-587: Herring gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.025	0.125
April	0.000	0.013	0.120
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.007	0.031
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-588: Kittiwake flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.260	0.638
February	0.000	0.180	0.437
March	0.000	0.090	0.340
April	0.445	1.640	2.985
May	0.000	0.443	1.467
June	0.000	0.043	0.237
July	0.000	0.140	0.368
August	0.000	0.337	1.185
September	0.076	0.815	2.417
October	0.000	0.365	0.835
November	0.000	0.045	0.250
December	0.000	0.225	0.448

Table 11-0-589: Lesser black-backed gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.013	0.089
May	0.000	0.000	0.000
June	0.000	0.087	0.456
July	0.000	0.107	0.494
August	0.000	0.007	0.031

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
September	0.000	0.020	0.116
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.045	0.245

Table 11-0-590: Little gull flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	1.143	3.917
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-591: Razorbill flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.200	0.877
May	0.000	0.033	0.269
June	0.000	0.003	0.022
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.275	1.019
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-592: Red-throated diver flying density estimates at DEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.110	0.426
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
August	0.000	0.000	0.000
September	0.000	0.045	0.257
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-593: Sandwich tern flying density estimates at DEP by month (design-based)

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.883	3.716
May	0.343	1.270	2.725
June	0.041	0.303	0.808
July	0.000	0.613	1.829
August	0.000	0.180	0.580
September	0.000	0.135	0.661
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-594: Sandwich tern density estimates at DEP by month (model-based; all birds)

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.445	1.007	1.984
May	0.695	1.117	1.716
June	0.249	0.505	0.927
July	0.620	0.924	1.363
August	0.046	0.119	0.275
September	0.116	0.333	0.797
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

11.1.6.2 SEP

Table 11-0-595: Arctic tern flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.003	0.028

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-596: Black-headed gull flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.117	0.499
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-597: Common gull flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.055	0.306
February	0.000	0.000	0.000
March	0.000	0.055	0.206
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.037	0.210
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.100	0.284
December	0.000	0.000	0.000

Table 11-0-598: Common tern flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
May	0.000	0.110	0.790
June	0.000	0.160	0.290
July	0.000	0.000	0.000
August	0.000	0.117	0.684
September	0.000	0.010	0.025
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-599: Fulmar flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.040	0.183
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-600: Gannet flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.038	0.053	0.210
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.017	0.106
August	0.000	0.017	0.107
September	0.000	0.025	0.147
October	0.000	0.000	0.000
November	0.000	0.380	0.848
December	0.000	0.000	0.000

Table 11-0-601: Great black-backed gull flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.055	0.286
February	0.000	0.000	0.000
March	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.050	0.304
November	0.000	0.160	0.389
December	0.000	0.570	2.835

Table 11-0-602: Guillemot flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.090	0.348
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.055	0.300
November	0.000	0.086	0.498
December	0.000	0.000	0.000

Table 11-0-603: Kittiwake flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.303	1.456
May	0.000	0.000	0.000
June	0.000	0.033	0.194
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.235	0.917
October	0.000	0.000	0.000
November	0.000	0.124	0.475
December	0.000	0.160	0.832

Table 11-0-604: Lesser black-backed gull flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.017	0.134
July	0.000	0.073	0.348
August	0.000	0.057	0.187
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-605: Little gull flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.025	0.123
October	0.000	0.055	0.271
November	0.000	0.302	0.882
December	0.000	0.000	0.000

Table 11-0-606: Razorbill flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.037	0.206
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.050	0.147
October	0.000	0.165	0.899
November	0.000	0.086	0.451
December	0.000	0.000	0.000

Table 11-0-607: Red-throated diver flying density estimates at SEP by month

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
February	0.000	0.055	0.308
March	0.000	0.000	0.000
April	0.000	0.000	0.000
May	0.000	0.000	0.000
June	0.000	0.000	0.000
July	0.000	0.000	0.000
August	0.000	0.000	0.000
September	0.000	0.000	0.000
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-608: Sandwich tern flying density estimates at SEP by month (design-based)

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.000	0.017	0.105
May	0.062	0.370	0.767
June	0.000	0.230	0.530
July	0.000	0.427	1.861
August	0.000	0.060	0.201
September	0.000	0.025	0.149
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

Table 11-0-609: Sandwich tern density estimates at SEP by month (model-based; all birds)

Month	Lower 95% CI Density	Mean Density	Upper 95% CI Density
January	0.000	0.000	0.000
February	0.000	0.000	0.000
March	0.000	0.000	0.000
April	0.004	0.032	0.121
May	0.225	0.399	0.665
June	0.169	0.431	0.914
July	0.494	0.695	0.978
August	0.016	0.067	0.190
September	0.022	0.078	0.207
October	0.000	0.000	0.000
November	0.000	0.000	0.000
December	0.000	0.000	0.000

11.1.7 ANNEX 3: Construction Phase Displacement Assessment Matrices: Project Alone, EIA

Shaded cells denote displacement and mortality rates recommended for use in assessment by Natural England.

11.1.7.1 Guillemot: DEP

Table 0-610: Potential displacement (down) and mortality (across) of guillemot in DEP+2km buffer during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	6	10	13	16	32	64	96	160	257	321
20%	6	13	19	26	32	64	128	193	321	513	642
30%	10	19	29	39	48	96	193	289	481	770	963
40%	13	26	39	51	64	128	257	385	642	1027	1283
50%	16	32	48	64	80	160	321	481	802	1283	1604
60%	19	39	58	77	96	193	385	578	963	1540	1925
70%	22	45	67	90	112	225	449	674	1123	1797	2246
80%	26	51	77	103	128	257	513	770	1283	2053	2567
90%	29	58	87	116	144	289	578	866	1444	2310	2888
100%	32	64	96	128	160	321	642	963	1604	2567	3209

Table 0-611: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	8	10	19	39	58	97	156	195
20%	4	8	12	16	19	39	78	117	195	312	390
30%	6	12	18	23	29	58	117	175	292	468	585
40%	8	16	23	31	39	78	156	234	390	624	780
50%	10	19	29	39	49	97	195	292	487	780	975
60%	12	23	35	47	58	117	234	351	585	936	1169
70%	14	27	41	55	68	136	273	409	682	1091	1364
80%	16	31	47	62	78	156	312	468	780	1247	1559
90%	18	35	53	70	88	175	351	526	877	1403	1754
100%	19	39	58	78	97	195	390	585	975	1559	1949

Table 0-612: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	21	31	51	82	103
20%	2	4	6	8	10	21	41	62	103	164	205
30%	3	6	9	12	15	31	62	92	154	246	308
40%	4	8	12	16	21	41	82	123	205	328	410
50%	5	10	15	21	26	51	103	154	256	410	513
60%	6	12	18	25	31	62	123	185	308	492	615
70%	7	14	22	29	36	72	144	215	359	574	718
80%	8	16	25	33	41	82	164	246	410	656	820
90%	9	18	28	37	46	92	185	277	461	738	923
100%	10	21	31	41	51	103	205	308	513	820	1025

Table 0-613: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	15	23	38	61	76
20%	2	3	5	6	8	15	30	46	76	122	152
30%	2	5	7	9	11	23	46	69	114	183	229
40%	3	6	9	12	15	30	61	91	152	244	305
50%	4	8	11	15	19	38	76	114	190	305	381
60%	5	9	14	18	23	46	91	137	229	366	457
70%	5	11	16	21	27	53	107	160	267	427	533
80%	6	12	18	24	30	61	122	183	305	488	610
90%	7	14	21	27	34	69	137	206	343	549	686
100%	8	15	23	30	38	76	152	229	381	610	762

Table 0-614: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	10	15	25	40	50
20%	1	2	3	4	5	10	20	30	50	80	101
30%	2	3	5	6	8	15	30	45	75	121	151
40%	2	4	6	8	10	20	40	60	101	161	201
50%	3	5	8	10	13	25	50	75	126	201	251
60%	3	6	9	12	15	30	60	91	151	241	302
70%	4	7	11	14	18	35	70	106	176	282	352
80%	4	8	12	16	20	40	80	121	201	322	402
90%	5	9	14	18	23	45	91	136	226	362	453
100%	5	10	15	20	25	50	101	151	251	402	503

Table 0-615: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	16	25	31
20%	1	1	2	2	3	6	12	19	31	50	62
30%	1	2	3	4	5	9	19	28	47	75	93
40%	1	2	4	5	6	12	25	37	62	100	125
50%	2	3	5	6	8	16	31	47	78	125	156
60%	2	4	6	7	9	19	37	56	93	149	187
70%	2	4	7	9	11	22	44	65	109	174	218
80%	2	5	7	10	12	25	50	75	125	199	249
90%	3	6	8	11	14	28	56	84	140	224	280
100%	3	6	9	12	16	31	62	93	156	249	311

Table 0-616: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	4	8	12	16	20	40	79	119	199	318	397
20%	8	16	24	32	40	79	159	238	397	635	794
30%	12	24	36	48	60	119	238	357	596	953	1191
40%	16	32	48	64	79	159	318	476	794	1271	1588
50%	20	40	60	79	99	199	397	596	993	1588	1985
60%	24	48	71	95	119	238	476	715	1191	1906	2382
70%	28	56	83	111	139	278	556	834	1390	2223	2779
80%	32	64	95	127	159	318	635	953	1588	2541	3176
90%	36	71	107	143	179	357	715	1072	1787	2859	3573
100%	40	79	119	159	199	397	794	1191	1985	3176	3970

Table 0-617: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	10	12	25	49	74	123	196	245
20%	5	10	15	20	25	49	98	147	245	392	490
30%	7	15	22	29	37	74	147	221	368	588	736
40%	10	20	29	39	49	98	196	294	490	785	981
50%	12	25	37	49	61	123	245	368	613	981	1226
60%	15	29	44	59	74	147	294	441	736	1177	1471
70%	17	34	51	69	86	172	343	515	858	1373	1716
80%	20	39	59	78	98	196	392	588	981	1569	1962
90%	22	44	66	88	110	221	441	662	1103	1765	2207
100%	25	49	74	98	123	245	490	736	1226	1962	2452

Table 0-618: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	7	13	27	40	67	107	134
20%	3	5	8	11	13	27	53	80	134	214	267
30%	4	8	12	16	20	40	80	120	200	321	401
40%	5	11	16	21	27	53	107	160	267	428	535
50%	7	13	20	27	33	67	134	200	334	535	668
60%	8	16	24	32	40	80	160	241	401	641	802
70%	9	19	28	37	47	94	187	281	468	748	936
80%	11	21	32	43	53	107	214	321	535	855	1069
90%	12	24	36	48	60	120	241	361	601	962	1203
100%	13	27	40	53	67	134	267	401	668	1069	1336

11.1.7.1.1 Guillemot: SEP

Table 0-619: Potential displacement (down) and mortality (across) of guillemot in SEP+2km buffer during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	14	23	28
20%	1	1	2	2	3	6	11	17	28	45	57
30%	1	2	3	3	4	9	17	26	43	68	85
40%	1	2	3	5	6	11	23	34	57	91	114
50%	1	3	4	6	7	14	28	43	71	114	142
60%	2	3	5	7	9	17	34	51	85	136	171
70%	2	4	6	8	10	20	40	60	99	159	199
80%	2	5	7	9	11	23	45	68	114	182	227
90%	3	5	8	10	13	26	51	77	128	205	256
100%	3	6	9	11	14	28	57	85	142	227	284

Table 0-620: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	31	39
30%	1	1	2	2	3	6	12	18	29	47	59
40%	1	2	2	3	4	8	16	24	39	63	79
50%	1	2	3	4	5	10	20	29	49	79	98
60%	1	2	4	5	6	12	24	35	59	94	118
70%	1	3	4	5	7	14	27	41	69	110	137
80%	2	3	5	6	8	16	31	47	79	126	157
90%	2	4	5	7	9	18	35	53	88	141	177
100%	2	4	6	8	10	20	39	59	98	157	196

Table 0-621: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	19	24
30%	0	1	1	1	2	4	7	11	18	29	36
40%	0	1	1	2	2	5	10	14	24	38	48
50%	1	1	2	2	3	6	12	18	30	48	60
60%	1	1	2	3	4	7	14	22	36	58	72
70%	1	2	3	3	4	8	17	25	42	67	84
80%	1	2	3	4	5	10	19	29	48	77	96
90%	1	2	3	4	5	11	22	32	54	86	108
100%	1	2	4	5	6	12	24	36	60	96	120

Table 0-622: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	20	34	54	68
30%	1	2	3	4	5	10	20	31	51	81	102
40%	1	3	4	5	7	14	27	41	68	108	136
50%	2	3	5	7	8	17	34	51	85	136	169
60%	2	4	6	8	10	20	41	61	102	163	203
70%	2	5	7	9	12	24	47	71	119	190	237
80%	3	5	8	11	14	27	54	81	136	217	271
90%	3	6	9	12	15	31	61	92	153	244	305
100%	3	7	10	14	17	34	68	102	169	271	339

Table 0-623: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	59
40%	1	2	2	3	4	8	16	24	40	63	79
50%	1	2	3	4	5	10	20	30	50	79	99
60%	1	2	4	5	6	12	24	36	59	95	119
70%	1	3	4	6	7	14	28	42	69	111	139
80%	2	3	5	6	8	16	32	48	79	127	159
90%	2	4	5	7	9	18	36	54	89	143	178
100%	2	4	6	8	10	20	40	59	99	159	198

Table 0-624: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	9	11
20%	0	0	1	1	1	2	4	6	11	17	21
30%	0	1	1	1	2	3	6	10	16	26	32
40%	0	1	1	2	2	4	9	13	21	34	43
50%	1	1	2	2	3	5	11	16	27	43	54
60%	1	1	2	3	3	6	13	19	32	52	64
70%	1	2	2	3	4	8	15	23	38	60	75
80%	1	2	3	3	4	9	17	26	43	69	86
90%	1	2	3	4	5	10	19	29	48	77	97
100%	1	2	3	4	5	11	21	32	54	86	107

Table 0-625: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	19	31	50	62
20%	1	2	4	5	6	12	25	37	62	100	125
30%	2	4	6	7	9	19	37	56	93	150	187
40%	2	5	7	10	12	25	50	75	125	199	249
50%	3	6	9	12	16	31	62	93	156	249	312
60%	4	7	11	15	19	37	75	112	187	299	374
70%	4	9	13	17	22	44	87	131	218	349	436
80%	5	10	15	20	25	50	100	150	249	399	499
90%	6	11	17	22	28	56	112	168	280	449	561
100%	6	12	19	25	31	62	125	187	312	499	623

Table 0-626: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	12	20	32	39
20%	1	2	2	3	4	8	16	24	39	63	79
30%	1	2	4	5	6	12	24	36	59	95	118
40%	2	3	5	6	8	16	32	47	79	126	158
50%	2	4	6	8	10	20	39	59	99	158	197
60%	2	5	7	9	12	24	47	71	118	189	237
70%	3	6	8	11	14	28	55	83	138	221	276
80%	3	6	9	13	16	32	63	95	158	253	316
90%	4	7	11	14	18	36	71	107	178	284	355
100%	4	8	12	16	20	39	79	118	197	316	395

Table 0-627: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	11	18	23
20%	0	1	1	2	2	5	9	14	23	36	45
30%	1	1	2	3	3	7	14	20	34	55	68
40%	1	2	3	4	5	9	18	27	45	73	91
50%	1	2	3	5	6	11	23	34	57	91	114
60%	1	3	4	5	7	14	27	41	68	109	136
70%	2	3	5	6	8	16	32	48	80	127	159
80%	2	4	5	7	9	18	36	55	91	145	182
90%	2	4	6	8	10	20	41	61	102	164	205
100%	2	5	7	9	11	23	45	68	114	182	227

11.1.7.1.2 Guillemot: SEP and DEP Combined

Table 0-628: Potential displacement (down) and mortality (across) of guillemot in SEP+2km and DEP+2km combined during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	7	10	14	17	35	70	105	175	279	349
20%	7	14	21	28	35	70	140	210	349	559	699
30%	10	21	31	42	52	105	210	314	524	838	1048
40%	14	28	42	56	70	140	279	419	699	1118	1397
50%	17	35	52	70	87	175	349	524	873	1397	1746
60%	21	42	63	84	105	210	419	629	1048	1677	2096
70%	24	49	73	98	122	244	489	733	1222	1956	2445
80%	28	56	84	112	140	279	559	838	1397	2235	2794
90%	31	63	94	126	157	314	629	943	1572	2515	3144
100%	35	70	105	140	175	349	699	1048	1746	2794	3493

Table 0-629: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	9	11	21	43	64	107	172	215
20%	4	9	13	17	21	43	86	129	215	343	429
30%	6	13	19	26	32	64	129	193	322	515	644
40%	9	17	26	34	43	86	172	257	429	687	858
50%	11	21	32	43	54	107	215	322	536	858	1073
60%	13	26	39	51	64	129	257	386	644	1030	1287
70%	15	30	45	60	75	150	300	451	751	1201	1502
80%	17	34	51	69	86	172	343	515	858	1373	1716
90%	19	39	58	77	97	193	386	579	965	1545	1931
100%	21	43	64	86	107	215	429	644	1073	1716	2145

Table 0-630: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	5	6	11	23	34	57	92	114
20%	2	5	7	9	11	23	46	69	114	183	229
30%	3	7	10	14	17	34	69	103	172	275	343
40%	5	9	14	18	23	46	92	137	229	366	458
50%	6	11	17	23	29	57	114	172	286	458	572
60%	7	14	21	27	34	69	137	206	343	550	687
70%	8	16	24	32	40	80	160	240	401	641	801
80%	9	18	27	37	46	92	183	275	458	733	916
90%	10	21	31	41	52	103	206	309	515	824	1030
100%	11	23	34	46	57	114	229	343	572	916	1145

Table 0-631: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	6	11	22	33	55	88	110
20%	2	4	7	9	11	22	44	66	110	176	220
30%	3	7	10	13	17	33	66	99	165	264	330
40%	4	9	13	18	22	44	88	132	220	352	440
50%	6	11	17	22	28	55	110	165	275	440	550
60%	7	13	20	26	33	66	132	198	330	528	660
70%	8	15	23	31	39	77	154	231	385	616	771
80%	9	18	26	35	44	88	176	264	440	705	881
90%	10	20	30	40	50	99	198	297	495	793	991
100%	11	22	33	44	55	110	220	330	550	881	1101

Table 0-632: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	14	21	35	56	70
20%	1	3	4	6	7	14	28	42	70	112	140
30%	2	4	6	8	11	21	42	63	105	168	210
40%	3	6	8	11	14	28	56	84	140	224	280
50%	4	7	11	14	18	35	70	105	175	280	351
60%	4	8	13	17	21	42	84	126	210	337	421
70%	5	10	15	20	25	49	98	147	245	393	491
80%	6	11	17	22	28	56	112	168	280	449	561
90%	6	13	19	25	32	63	126	189	316	505	631
100%	7	14	21	28	35	70	140	210	351	561	701

Table 0-633: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	13	21	34	42
20%	1	2	3	3	4	8	17	25	42	67	84
30%	1	3	4	5	6	13	25	38	63	101	126
40%	2	3	5	7	8	17	34	50	84	134	168
50%	2	4	6	8	10	21	42	63	105	168	209
60%	3	5	8	10	13	25	50	75	126	201	251
70%	3	6	9	12	15	29	59	88	147	235	293
80%	3	7	10	13	17	34	67	101	168	268	335
90%	4	8	11	15	19	38	75	113	188	302	377
100%	4	8	13	17	21	42	84	126	209	335	419

Table 0-634: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	5	9	14	18	23	46	92	138	230	367	459
20%	9	18	28	37	46	92	184	276	459	735	919
30%	14	28	41	55	69	138	276	413	689	1102	1378
40%	18	37	55	73	92	184	367	551	919	1470	1837
50%	23	46	69	92	115	230	459	689	1148	1837	2297
60%	28	55	83	110	138	276	551	827	1378	2205	2756
70%	32	64	96	129	161	322	643	965	1608	2572	3216
80%	37	73	110	147	184	367	735	1102	1837	2940	3675
90%	41	83	124	165	207	413	827	1240	2067	3307	4134
100%	46	92	138	184	230	459	919	1378	2297	3675	4594

Table 0-635: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	6	9	11	14	28	57	85	142	228	285
20%	6	11	17	23	28	57	114	171	285	455	569
30%	9	17	26	34	43	85	171	256	427	683	854
40%	11	23	34	46	57	114	228	342	569	911	1139
50%	14	28	43	57	71	142	285	427	712	1139	1423
60%	17	34	51	68	85	171	342	512	854	1366	1708
70%	20	40	60	80	100	199	399	598	996	1594	1993
80%	23	46	68	91	114	228	455	683	1139	1822	2277
90%	26	51	77	102	128	256	512	769	1281	2050	2562
100%	28	57	85	114	142	285	569	854	1423	2277	2847

Table 0-636: Potential displacement (down) and mortality (across) for guillemot in SEP+2km and DEP+2km combined year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	3	5	6	8	16	31	47	78	125	156
20%	3	6	9	13	16	31	63	94	156	250	313
30%	5	9	14	19	23	47	94	141	235	375	469
40%	6	13	19	25	31	63	125	188	313	500	626
50%	8	16	23	31	39	78	156	235	391	626	782
60%	9	19	28	38	47	94	188	281	469	751	938
70%	11	22	33	44	55	109	219	328	547	876	1095
80%	13	25	38	50	63	125	250	375	626	1001	1251
90%	14	28	42	56	70	141	281	422	704	1126	1407
100%	16	31	47	63	78	156	313	469	782	1251	1564

11.1.7.1.3 Razorbill: DEP

Table 0-637: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	4	9	18	27	45	72	90
20%	2	4	5	7	9	18	36	54	90	144	179
30%	3	5	8	11	13	27	54	81	135	215	269
40%	4	7	11	14	18	36	72	108	179	287	359
50%	4	9	13	18	22	45	90	135	224	359	449
60%	5	11	16	22	27	54	108	162	269	431	538
70%	6	13	19	25	31	63	126	188	314	502	628
80%	7	14	22	29	36	72	144	215	359	574	718
90%	8	16	24	32	40	81	162	242	404	646	808
100%	9	18	27	36	45	90	179	269	449	718	897

Table 0-638: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	10	15	24	39	49
20%	1	2	3	4	5	10	20	29	49	78	98
30%	1	3	4	6	7	15	29	44	73	118	147
40%	2	4	6	8	10	20	39	59	98	157	196
50%	2	5	7	10	12	24	49	73	122	196	245
60%	3	6	9	12	15	29	59	88	147	235	294
70%	3	7	10	14	17	34	69	103	171	274	343
80%	4	8	12	16	20	39	78	118	196	313	392
90%	4	9	13	18	22	44	88	132	220	353	441
100%	5	10	15	20	24	49	98	147	245	392	490

Table 0-639: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	17
20%	0	1	1	1	2	3	7	10	17	26	33
30%	0	1	1	2	2	5	10	15	25	40	50
40%	1	1	2	3	3	7	13	20	33	53	66
50%	1	2	2	3	4	8	17	25	41	66	83
60%	1	2	3	4	5	10	20	30	50	79	99
70%	1	2	3	5	6	12	23	35	58	93	116
80%	1	3	4	5	7	13	26	40	66	106	132
90%	1	3	4	6	7	15	30	45	74	119	149
100%	2	3	5	7	8	17	33	50	83	132	165

Table 0-640: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	14	18
20%	0	1	1	1	2	4	7	11	18	28	35
30%	1	1	2	2	3	5	11	16	26	42	53
40%	1	1	2	3	4	7	14	21	35	56	71
50%	1	2	3	4	4	9	18	26	44	71	88
60%	1	2	3	4	5	11	21	32	53	85	106
70%	1	2	4	5	6	12	25	37	62	99	124
80%	1	3	4	6	7	14	28	42	71	113	141
90%	2	3	5	6	8	16	32	48	79	127	159
100%	2	4	5	7	9	18	35	53	88	141	176

Table 0-641: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	6	9	11
20%	0	0	1	1	1	2	4	7	11	18	22
30%	0	1	1	1	2	3	7	10	17	27	33
40%	0	1	1	2	2	4	9	13	22	35	44
50%	1	1	2	2	3	6	11	17	28	44	55
60%	1	1	2	3	3	7	13	20	33	53	66
70%	1	2	2	3	4	8	15	23	39	62	77
80%	1	2	3	4	4	9	18	27	44	71	88
90%	1	2	3	4	5	10	20	30	50	80	99
100%	1	2	3	4	6	11	22	33	55	88	110

Table 0-642: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	9	12
30%	0	0	1	1	1	2	4	5	9	14	18
40%	0	0	1	1	1	2	5	7	12	19	24
50%	0	1	1	1	1	3	6	9	15	24	29
60%	0	1	1	1	2	4	7	11	18	28	35
70%	0	1	1	2	2	4	8	12	21	33	41
80%	0	1	1	2	2	5	9	14	24	38	47
90%	1	1	2	2	3	5	11	16	26	42	53
100%	1	1	2	2	3	6	12	18	29	47	59

Table 0-643: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	3	5	9	14	17
30%	0	1	1	1	1	3	5	8	13	20	26
40%	0	1	1	1	2	3	7	10	17	27	34
50%	0	1	1	2	2	4	9	13	21	34	43
60%	1	1	2	2	3	5	10	15	26	41	51
70%	1	1	2	2	3	6	12	18	30	48	60
80%	1	1	2	3	3	7	14	20	34	55	68
90%	1	2	2	3	4	8	15	23	38	61	77
100%	1	2	3	3	4	9	17	26	43	68	85

Table 0-644: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	8
30%	0	0	0	1	1	1	3	4	6	10	13
40%	0	0	1	1	1	2	3	5	8	13	17
50%	0	0	1	1	1	2	4	6	10	17	21
60%	0	1	1	1	1	3	5	8	13	20	25
70%	0	1	1	1	1	3	6	9	15	23	29
80%	0	1	1	1	2	3	7	10	17	27	33
90%	0	1	1	2	2	4	8	11	19	30	38
100%	0	1	1	2	2	4	8	13	21	33	42

Table 0-645: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-646: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	15	19
20%	0	1	1	2	2	4	8	12	19	31	38
30%	1	1	2	2	3	6	12	17	29	46	58
40%	1	2	2	3	4	8	15	23	38	62	77
50%	1	2	3	4	5	10	19	29	48	77	96
60%	1	2	3	5	6	12	23	35	58	92	115
70%	1	3	4	5	7	13	27	40	67	108	135
80%	2	3	5	6	8	15	31	46	77	123	154
90%	2	3	5	7	9	17	35	52	87	138	173
100%	2	4	6	8	10	19	38	58	96	154	192

Table 0-647: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	19	24
30%	0	1	1	1	2	4	7	11	18	29	36
40%	0	1	1	2	2	5	10	15	24	39	48
50%	1	1	2	2	3	6	12	18	30	48	61
60%	1	1	2	3	4	7	15	22	36	58	73
70%	1	2	3	3	4	8	17	25	42	68	85
80%	1	2	3	4	5	10	19	29	48	77	97
90%	1	2	3	4	5	11	22	33	54	87	109
100%	1	2	4	5	6	12	24	36	61	97	121

Table 0-648: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	14	22	27
50%	0	1	1	1	2	3	7	10	17	27	34
60%	0	1	1	2	2	4	8	12	20	33	41
70%	0	1	1	2	2	5	10	14	24	38	48
80%	1	1	2	2	3	5	11	16	27	43	54
90%	1	1	2	2	3	6	12	18	31	49	61
100%	1	1	2	3	3	7	14	20	34	54	68

Table 0-649: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	7	14	27	41	68	108	135
20%	3	5	8	11	14	27	54	81	135	216	270
30%	4	8	12	16	20	41	81	122	203	324	405
40%	5	11	16	22	27	54	108	162	270	432	540
50%	7	14	20	27	34	68	135	203	338	540	676
60%	8	16	24	32	41	81	162	243	405	649	811
70%	9	19	28	38	47	95	189	284	473	757	946
80%	11	22	32	43	54	108	216	324	540	865	1081
90%	12	24	36	49	61	122	243	365	608	973	1216
100%	14	27	41	54	68	135	270	405	676	1081	1351

Table 0-650: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	15	23	38	61	76
20%	2	3	5	6	8	15	31	46	76	122	153
30%	2	5	7	9	11	23	46	69	114	183	229
40%	3	6	9	12	15	31	61	92	153	244	305
50%	4	8	11	15	19	38	76	114	191	305	382
60%	5	9	14	18	23	46	92	137	229	366	458
70%	5	11	16	21	27	53	107	160	267	427	534
80%	6	12	18	24	31	61	122	183	305	488	610
90%	7	14	21	27	34	69	137	206	343	549	687
100%	8	15	23	31	38	76	153	229	382	610	763

Table 0-651: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	15	24	30
20%	1	1	2	2	3	6	12	18	30	48	61
30%	1	2	3	4	5	9	18	27	45	73	91
40%	1	2	4	5	6	12	24	36	61	97	121
50%	2	3	5	6	8	15	30	45	76	121	152
60%	2	4	5	7	9	18	36	55	91	145	182
70%	2	4	6	8	11	21	42	64	106	170	212
80%	2	5	7	10	12	24	48	73	121	194	242
90%	3	5	8	11	14	27	55	82	136	218	273
100%	3	6	9	12	15	30	61	91	152	242	303

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Table 0-652: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	11	18	23
20%	0	1	1	2	2	5	9	14	23	36	45
30%	1	1	2	3	3	7	14	20	34	54	68
40%	1	2	3	4	5	9	18	27	45	72	90
50%	1	2	3	5	6	11	23	34	56	90	113
60%	1	3	4	5	7	14	27	41	68	108	135
70%	2	3	5	6	8	16	32	47	79	126	158
80%	2	4	5	7	9	18	36	54	90	144	180
90%	2	4	6	8	10	20	41	61	101	162	203
100%	2	5	7	9	11	23	45	68	113	180	225

Table 0-653: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	8	14	22	28
30%	0	1	1	2	2	4	8	12	21	33	41
40%	1	1	2	2	3	6	11	17	28	44	55
50%	1	1	2	3	3	7	14	21	34	55	69
60%	1	2	2	3	4	8	17	25	41	66	83
70%	1	2	3	4	5	10	19	29	48	77	96
80%	1	2	3	4	6	11	22	33	55	88	110
90%	1	2	4	5	6	12	25	37	62	99	124
100%	1	3	4	6	7	14	28	41	69	110	138

Table 0-654: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	9	12
30%	0	0	1	1	1	2	4	5	9	14	18
40%	0	0	1	1	1	2	5	7	12	19	24
50%	0	1	1	1	1	3	6	9	15	24	30
60%	0	1	1	1	2	4	7	11	18	28	36
70%	0	1	1	2	2	4	8	12	21	33	41
80%	0	1	1	2	2	5	9	14	24	38	47
90%	1	1	2	2	3	5	11	16	27	43	53
100%	1	1	2	2	3	6	12	18	30	47	59

Table 0-655: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	60
40%	1	2	2	3	4	8	16	24	40	64	81
50%	1	2	3	4	5	10	20	30	50	81	101
60%	1	2	4	5	6	12	24	36	60	97	121
70%	1	3	4	6	7	14	28	42	70	113	141
80%	2	3	5	6	8	16	32	48	81	129	161
90%	2	4	5	7	9	18	36	54	91	145	181
100%	2	4	6	8	10	20	40	60	101	161	201

Table 0-656: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	20	25
30%	0	1	1	1	2	4	7	11	19	30	37
40%	0	1	1	2	2	5	10	15	25	40	50
50%	1	1	2	2	3	6	12	19	31	50	62
60%	1	1	2	3	4	7	15	22	37	60	75
70%	1	2	3	3	4	9	17	26	44	70	87
80%	1	2	3	4	5	10	20	30	50	80	100
90%	1	2	3	4	6	11	22	34	56	90	112
100%	1	2	4	5	6	12	25	37	62	100	124

Table 0-657: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	6	9	15	18
40%	0	0	1	1	1	2	5	7	12	20	25
50%	0	1	1	1	2	3	6	9	15	25	31
60%	0	1	1	1	2	4	7	11	18	29	37
70%	0	1	1	2	2	4	9	13	22	34	43
80%	0	1	1	2	2	5	10	15	25	39	49
90%	1	1	2	2	3	6	11	17	28	44	55
100%	1	1	2	2	3	6	12	18	31	49	61

Table 0-658: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	9	11
30%	0	0	0	1	1	2	3	5	8	13	16
40%	0	0	1	1	1	2	4	7	11	17	22
50%	0	1	1	1	1	3	5	8	14	22	27
60%	0	1	1	1	2	3	7	10	16	26	33
70%	0	1	1	2	2	4	8	11	19	30	38
80%	0	1	1	2	2	4	9	13	22	35	43
90%	0	1	1	2	2	5	10	15	24	39	49
100%	1	1	2	2	3	5	11	16	27	43	54

Table 0-659: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	6	8
40%	0	0	0	0	1	1	2	3	5	8	10
50%	0	0	0	1	1	1	3	4	7	10	13
60%	0	0	0	1	1	2	3	5	8	12	16
70%	0	0	1	1	1	2	4	5	9	15	18
80%	0	0	1	1	1	2	4	6	10	17	21
90%	0	0	1	1	1	2	5	7	12	19	23
100%	0	1	1	1	1	3	5	8	13	21	26

Table 0-660: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	3	3
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	4	5

Table 0-661: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	11	18	23
40%	0	1	1	1	2	3	6	9	15	24	30
50%	0	1	1	2	2	4	8	11	19	30	38
60%	0	1	1	2	2	5	9	14	23	37	46
70%	1	1	2	2	3	5	11	16	27	43	53
80%	1	1	2	2	3	6	12	18	30	49	61
90%	1	1	2	3	3	7	14	21	34	55	69
100%	1	2	2	3	4	8	15	23	38	61	76

Table 0-662: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	11
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	11	18	23
50%	0	1	1	1	1	3	6	9	14	23	29
60%	0	1	1	1	2	3	7	10	17	28	34
70%	0	1	1	2	2	4	8	12	20	32	40
80%	0	1	1	2	2	5	9	14	23	37	46
90%	1	1	2	2	3	5	10	15	26	41	52
100%	1	1	2	2	3	6	11	17	29	46	57

Table 0-663: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	1	2	4	6	7
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	1	3	4	7	12	15
50%	0	0	1	1	1	2	4	6	9	15	19
60%	0	0	1	1	1	2	4	7	11	18	22
70%	0	1	1	1	1	3	5	8	13	21	26
80%	0	1	1	1	1	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	34
100%	0	1	1	1	2	4	7	11	19	30	37

Table 0-664: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	45	56
20%	1	2	3	4	6	11	22	33	56	89	111
30%	2	3	5	7	8	17	33	50	84	134	167
40%	2	4	7	9	11	22	45	67	111	178	223
50%	3	6	8	11	14	28	56	84	139	223	279
60%	3	7	10	13	17	33	67	100	167	267	334
70%	4	8	12	16	20	39	78	117	195	312	390
80%	4	9	13	18	22	45	89	134	223	357	446
90%	5	10	15	20	25	50	100	150	251	401	501
100%	6	11	17	22	28	56	111	167	279	446	557

Table 0-665: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	28	35
20%	1	1	2	3	3	7	14	21	35	55	69
30%	1	2	3	4	5	10	21	31	52	83	104
40%	1	3	4	6	7	14	28	41	69	111	138
50%	2	3	5	7	9	17	35	52	86	138	173
60%	2	4	6	8	10	21	41	62	104	166	207
70%	2	5	7	10	12	24	48	73	121	193	242
80%	3	6	8	11	14	28	55	83	138	221	276
90%	3	6	9	12	16	31	62	93	155	249	311
100%	3	7	10	14	17	35	69	104	173	276	345

Table 0-666: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	10	16	26	32
30%	0	1	1	2	2	5	10	15	24	39	49
40%	1	1	2	3	3	6	13	19	32	52	65
50%	1	2	2	3	4	8	16	24	41	65	81
60%	1	2	3	4	5	10	19	29	49	78	97
70%	1	2	3	5	6	11	23	34	57	91	114
80%	1	3	4	5	6	13	26	39	65	104	130
90%	1	3	4	6	7	15	29	44	73	117	146
100%	2	3	5	6	8	16	32	49	81	130	162

11.1.7.1.5 Razorbill: SEP and DEP Combined

Table 0-667: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	6	11	22	34	56	90	112
20%	2	4	7	9	11	22	45	67	112	180	225
30%	3	7	10	13	17	34	67	101	168	269	337
40%	4	9	13	18	22	45	90	135	225	359	449
50%	6	11	17	22	28	56	112	168	281	449	561
60%	7	13	20	27	34	67	135	202	337	539	674
70%	8	16	24	31	39	79	157	236	393	629	786
80%	9	18	27	36	45	90	180	269	449	719	898
90%	10	20	30	40	51	101	202	303	505	808	1010
100%	11	22	34	45	56	112	225	337	561	898	1123

Table 0-668: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	6	13	19	31	50	63
20%	1	3	4	5	6	13	25	38	63	100	125
30%	2	4	6	8	9	19	38	56	94	151	188
40%	3	5	8	10	13	25	50	75	125	201	251
50%	3	6	9	13	16	31	63	94	157	251	314
60%	4	8	11	15	19	38	75	113	188	301	376
70%	4	9	13	18	22	44	88	132	220	351	439
80%	5	10	15	20	25	50	100	151	251	401	502
90%	6	11	17	23	28	56	113	169	282	452	565
100%	6	13	19	25	31	63	125	188	314	502	627

Table 0-669: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	7	11	18	22
20%	0	1	1	2	2	4	9	13	22	36	45
30%	1	1	2	3	3	7	13	20	34	54	67
40%	1	2	3	4	4	9	18	27	45	72	90
50%	1	2	3	4	6	11	22	34	56	90	112
60%	1	3	4	5	7	13	27	40	67	108	135
70%	2	3	5	6	8	16	31	47	79	126	157
80%	2	4	5	7	9	18	36	54	90	144	180
90%	2	4	6	8	10	20	40	61	101	162	202
100%	2	4	7	9	11	22	45	67	112	180	225

Table 0-670: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	11	19	30	38
20%	1	2	2	3	4	8	15	23	38	60	76
30%	1	2	3	5	6	11	23	34	57	91	113
40%	2	3	5	6	8	15	30	45	76	121	151
50%	2	4	6	8	9	19	38	57	94	151	189
60%	2	5	7	9	11	23	45	68	113	181	227
70%	3	5	8	11	13	26	53	79	132	212	264
80%	3	6	9	12	15	30	60	91	151	242	302
90%	3	7	10	14	17	34	68	102	170	272	340
100%	4	8	11	15	19	38	76	113	189	302	378

Table 0-671: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	19	23
20%	0	1	1	2	2	5	9	14	23	38	47
30%	1	1	2	3	4	7	14	21	35	56	70
40%	1	2	3	4	5	9	19	28	47	75	94
50%	1	2	4	5	6	12	23	35	59	94	117
60%	1	3	4	6	7	14	28	42	70	113	141
70%	2	3	5	7	8	16	33	49	82	132	164
80%	2	4	6	8	9	19	38	56	94	150	188
90%	2	4	6	8	11	21	42	63	106	169	211
100%	2	5	7	9	12	23	47	70	117	188	235

Table 0-672: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	19	24
30%	0	1	1	1	2	4	7	11	18	29	36
40%	0	1	1	2	2	5	10	14	24	38	48
50%	1	1	2	2	3	6	12	18	30	48	60
60%	1	1	2	3	4	7	14	22	36	58	72
70%	1	2	3	3	4	8	17	25	42	67	84
80%	1	2	3	4	5	10	19	29	48	77	96
90%	1	2	3	4	5	11	22	32	54	87	108
100%	1	2	4	5	6	12	24	36	60	96	120

Table 0-673: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	8	14	22	28
30%	0	1	1	2	2	4	8	13	21	33	42
40%	1	1	2	2	3	6	11	17	28	45	56
50%	1	1	2	3	3	7	14	21	35	56	70
60%	1	2	3	3	4	8	17	25	42	67	84
70%	1	2	3	4	5	10	20	29	49	78	98
80%	1	2	3	4	6	11	22	33	56	89	112
90%	1	3	4	5	6	13	25	38	63	100	126
100%	1	3	4	6	7	14	28	42	70	112	139

Table 0-674: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	14	22	27
50%	0	1	1	1	2	3	7	10	17	27	34
60%	0	1	1	2	2	4	8	12	20	33	41
70%	0	1	1	2	2	5	10	14	24	38	48
80%	1	1	2	2	3	5	11	16	27	43	54
90%	1	1	2	2	3	6	12	18	31	49	61
100%	1	1	2	3	3	7	14	20	34	54	68

Table 0-675: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-676: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	21	27
20%	1	1	2	2	3	5	11	16	27	43	54
30%	1	2	2	3	4	8	16	24	40	64	81
40%	1	2	3	4	5	11	21	32	54	86	107
50%	1	3	4	5	7	13	27	40	67	107	134
60%	2	3	5	6	8	16	32	48	81	129	161
70%	2	4	6	8	9	19	38	56	94	150	188
80%	2	4	6	9	11	21	43	64	107	172	215
90%	2	5	7	10	12	24	48	72	121	193	242
100%	3	5	8	11	13	27	54	81	134	215	268

Table 0-677: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	14	18
20%	0	1	1	1	2	4	7	11	18	29	36
30%	1	1	2	2	3	5	11	16	27	43	53
40%	1	1	2	3	4	7	14	21	36	57	71
50%	1	2	3	4	4	9	18	27	45	71	89
60%	1	2	3	4	5	11	21	32	53	86	107
70%	1	2	4	5	6	12	25	37	62	100	125
80%	1	3	4	6	7	14	29	43	71	114	143
90%	2	3	5	6	8	16	32	48	80	128	160
100%	2	4	5	7	9	18	36	53	89	143	178

Table 0-678: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	11
20%	0	0	1	1	1	2	4	6	11	17	21
30%	0	1	1	1	2	3	6	9	16	25	32
40%	0	1	1	2	2	4	8	13	21	34	42
50%	1	1	2	2	3	5	11	16	26	42	53
60%	1	1	2	3	3	6	13	19	32	50	63
70%	1	1	2	3	4	7	15	22	37	59	74
80%	1	2	3	3	4	8	17	25	42	67	84
90%	1	2	3	4	5	9	19	28	47	76	95
100%	1	2	3	4	5	11	21	32	53	84	105

Table 0-679: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	8	10	19	38	57	95	153	191
20%	4	8	11	15	19	38	76	114	191	305	382
30%	6	11	17	23	29	57	114	172	286	458	572
40%	8	15	23	31	38	76	153	229	382	611	763
50%	10	19	29	38	48	95	191	286	477	763	954
60%	11	23	34	46	57	114	229	343	572	916	1145
70%	13	27	40	53	67	134	267	401	668	1069	1336
80%	15	31	46	61	76	153	305	458	763	1221	1527
90%	17	34	52	69	86	172	343	515	859	1374	1717
100%	19	38	57	76	95	191	382	572	954	1527	1908

Table 0-680: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	6	11	22	33	55	89	111
20%	2	4	7	9	11	22	44	67	111	177	222
30%	3	7	10	13	17	33	67	100	166	266	333
40%	4	9	13	18	22	44	89	133	222	355	443
50%	6	11	17	22	28	55	111	166	277	443	554
60%	7	13	20	27	33	67	133	200	333	532	665
70%	8	16	23	31	39	78	155	233	388	621	776
80%	9	18	27	35	44	89	177	266	443	709	887
90%	10	20	30	40	50	100	200	299	499	798	998
100%	11	22	33	44	55	111	222	333	554	887	1108

Table 0-681: Potential displacement (down) and mortality (across) for razorbill in SEP+2km and DEP+2km combined year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	23	37	47
20%	1	2	3	4	5	9	19	28	47	74	93
30%	1	3	4	6	7	14	28	42	70	112	140
40%	2	4	6	7	9	19	37	56	93	149	186
50%	2	5	7	9	12	23	47	70	116	186	233
60%	3	6	8	11	14	28	56	84	140	223	279
70%	3	7	10	13	16	33	65	98	163	261	326
80%	4	7	11	15	19	37	74	112	186	298	372
90%	4	8	13	17	21	42	84	126	210	335	419
100%	5	9	14	19	23	47	93	140	233	372	466

11.1.7.1.6 Red-throated diver: DEP

Table 0-682: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-683: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-684: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during autumn migration season, using lower 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-685: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-686: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-687: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-688: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-689: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-690: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	1	1	1	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-691: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	4	4
50%	0	0	0	0	0	1	1	2	3	4	6
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	1	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	6	9	11

Table 0-692: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	5
80%	0	0	0	0	0	1	1	2	3	4	5
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	5	7

Table 0-693: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	2	3

11.1.7.1.7 Red-throated diver: SEP

Table 0-694: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	4	4
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	9
70%	0	0	0	0	1	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	4	6	9	12
90%	0	0	0	1	1	1	3	4	7	11	13
100%	0	0	0	1	1	1	3	4	7	12	15

Table 0-695: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	5	7
90%	0	0	0	0	0	1	1	2	4	6	7
100%	0	0	0	0	0	1	2	2	4	7	8

Table 0-696: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during autumn migration season, using lower 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	2
70%	0	0	0	0	0	0	0	1	1	1	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-697: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-698: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-699: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-700: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	1	1	1	1	3	5	8	13	20	25
60%	0	1	1	1	2	3	6	9	15	24	30
70%	0	1	1	1	2	4	7	11	18	28	35
80%	0	1	1	2	2	4	8	12	20	32	40
90%	0	1	1	2	2	5	9	14	23	36	45
100%	1	1	2	2	3	5	10	15	25	40	50

Table 0-701: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	10	12
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	0	1	1	2	3	5	8	13	17
90%	0	0	1	1	1	2	4	6	9	15	19
100%	0	0	1	1	1	2	4	6	10	17	21

Table 0-702: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	4
80%	0	0	0	0	0	1	1	2	3	4	5
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-703: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	13
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	13	21	26
50%	0	1	1	1	2	3	7	10	16	26	33
60%	0	1	1	2	2	4	8	12	20	32	40
70%	0	1	1	2	2	5	9	14	23	37	46
80%	1	1	2	2	3	5	11	16	26	42	53
90%	1	1	2	2	3	6	12	18	30	48	59
100%	1	1	2	3	3	7	13	20	33	53	66

Table 0-704: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	4	6	9	12
50%	0	0	0	1	1	1	3	4	7	12	15
60%	0	0	1	1	1	2	4	5	9	14	18
70%	0	0	1	1	1	2	4	6	10	16	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	13	21	26
100%	0	1	1	1	1	3	6	9	15	24	29

Table 0-705: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	2	4	7	8
100%	0	0	0	0	0	1	2	3	5	7	9

11.1.7.1.8 Red-throated diver: SEP and DEP Combined

Table 0-706: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	0	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	3	6	9	11
70%	0	0	0	1	1	1	3	4	7	11	13
80%	0	0	0	1	1	2	3	5	8	12	15
90%	0	0	1	1	1	2	3	5	9	14	17
100%	0	0	1	1	1	2	4	6	10	15	19

Table 0-707: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	3	4	7	8
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	8	11

Table 0-708: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-709: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-710: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-711: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-712: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	6
20%	0	0	0	0	1	1	2	3	6	9	11
30%	0	0	1	1	1	2	3	5	8	13	17
40%	0	0	1	1	1	2	4	7	11	18	22
50%	0	1	1	1	1	3	6	8	14	22	28
60%	0	1	1	1	2	3	7	10	17	27	33
70%	0	1	1	2	2	4	8	12	20	31	39
80%	0	1	1	2	2	4	9	13	22	36	45
90%	1	1	2	2	3	5	10	15	25	40	50
100%	1	1	2	2	3	6	11	17	28	45	56

Table 0-713: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	25

Table 0-714: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	4
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	2	4	6	8
100%	0	0	0	0	0	1	2	3	4	7	9

Table 0-715: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	12	19	23
40%	0	1	1	1	2	3	6	9	15	25	31
50%	0	1	1	2	2	4	8	12	19	31	39
60%	0	1	1	2	2	5	9	14	23	37	46
70%	1	1	2	2	3	5	11	16	27	43	54
80%	1	1	2	2	3	6	12	19	31	49	62
90%	1	1	2	3	3	7	14	21	35	56	69
100%	1	2	2	3	4	8	15	23	39	62	77

Table 0-716: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	1	2	4	6	7
30%	0	0	0	0	1	1	2	3	5	9	11
40%	0	0	0	1	1	1	3	4	7	12	14
50%	0	0	1	1	1	2	4	5	9	14	18
60%	0	0	1	1	1	2	4	6	11	17	22
70%	0	1	1	1	1	3	5	8	13	20	25
80%	0	1	1	1	1	3	6	9	14	23	29
90%	0	1	1	1	2	3	6	10	16	26	32
100%	0	1	1	1	2	4	7	11	18	29	36

Table 0-717: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	0	1	1	2	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	1	2	4	6	7
70%	0	0	0	0	0	1	2	3	4	7	8
80%	0	0	0	0	0	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	5	9	11
100%	0	0	0	0	1	1	2	4	6	10	12

11.1.8 ANNEX 4: Operational Phase Displacement Assessment Matrices: Project Alone, EIA

Shaded cells denote displacement and mortality rates recommended for use in assessment by Natural England with exception of Sandwich tern, which have been selected by review of available evidence and expert opinion.

11.1.8.2 Gannet: DEP

Table 0-718: Potential displacement (down) and mortality (across) of gannet in DEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	44	55
20%	1	2	3	4	6	11	22	33	55	89	111
30%	2	3	5	7	8	17	33	50	83	133	166
40%	2	4	7	9	11	22	44	66	111	177	222
50%	3	6	8	11	14	28	55	83	139	222	277
60%	3	7	10	13	17	33	66	100	166	266	332
70%	4	8	12	16	19	39	78	116	194	310	388
80%	4	9	13	18	22	44	89	133	222	355	443
90%	5	10	15	20	25	50	100	150	249	399	499
100%	6	11	17	22	28	55	111	166	277	443	554

Table 0-719: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	21	34	55	69
30%	1	2	3	4	5	10	21	31	51	82	103
40%	1	3	4	5	7	14	27	41	69	110	137
50%	2	3	5	7	9	17	34	51	86	137	172
60%	2	4	6	8	10	21	41	62	103	165	206
70%	2	5	7	10	12	24	48	72	120	192	240
80%	3	5	8	11	14	27	55	82	137	220	274
90%	3	6	9	12	15	31	62	93	154	247	309
100%	3	7	10	14	17	34	69	103	172	274	343

Table 0-720: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	9	15	19
20%	0	1	1	1	2	4	7	11	19	30	37
30%	1	1	2	2	3	6	11	17	28	45	56
40%	1	1	2	3	4	7	15	22	37	59	74
50%	1	2	3	4	5	9	19	28	46	74	93
60%	1	2	3	4	6	11	22	33	56	89	111
70%	1	3	4	5	6	13	26	39	65	104	130
80%	1	3	4	6	7	15	30	45	74	119	148
90%	2	3	5	7	8	17	33	50	83	134	167
100%	2	4	6	7	9	19	37	56	93	148	186

Table 0-721: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	21
30%	0	1	1	1	2	3	6	9	15	25	31
40%	0	1	1	2	2	4	8	12	21	33	41
50%	1	1	2	2	3	5	10	15	26	41	51
60%	1	1	2	2	3	6	12	18	31	49	62
70%	1	1	2	3	4	7	14	22	36	57	72
80%	1	2	2	3	4	8	16	25	41	66	82
90%	1	2	3	4	5	9	18	28	46	74	92
100%	1	2	3	4	5	10	21	31	51	82	103

Table 0-722: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	7	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	6	9	15	19
50%	0	0	1	1	1	2	5	7	12	19	23
60%	0	1	1	1	1	3	6	8	14	22	28
70%	0	1	1	1	2	3	7	10	16	26	33
80%	0	1	1	1	2	4	7	11	19	30	37
90%	0	1	1	2	2	4	8	13	21	33	42
100%	0	1	1	2	2	5	9	14	23	37	47

Table 0-723: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	5	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-724: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	14	21	35	55	69
20%	1	3	4	6	7	14	28	42	69	111	138
30%	2	4	6	8	10	21	42	62	104	166	208
40%	3	6	8	11	14	28	55	83	138	221	277
50%	3	7	10	14	17	35	69	104	173	277	346
60%	4	8	12	17	21	42	83	125	208	332	415
70%	5	10	15	19	24	48	97	145	242	388	484
80%	6	11	17	22	28	55	111	166	277	443	554
90%	6	12	19	25	31	62	125	187	311	498	623
100%	7	14	21	28	35	69	138	208	346	554	692

Table 0-725: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	13	21	33	42
20%	1	2	3	3	4	8	17	25	42	67	83
30%	1	3	4	5	6	13	25	38	63	100	125
40%	2	3	5	7	8	17	33	50	83	133	167
50%	2	4	6	8	10	21	42	63	104	167	209
60%	3	5	8	10	13	25	50	75	125	200	250
70%	3	6	9	12	15	29	58	88	146	234	292
80%	3	7	10	13	17	33	67	100	167	267	334
90%	4	8	11	15	19	38	75	113	188	300	375
100%	4	8	13	17	21	42	83	125	209	334	417

Table 0-726: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	14	18
20%	0	1	1	1	2	4	7	11	18	29	36
30%	1	1	2	2	3	5	11	16	27	43	54
40%	1	1	2	3	4	7	14	22	36	58	72
50%	1	2	3	4	5	9	18	27	45	72	90
60%	1	2	3	4	5	11	22	32	54	86	108
70%	1	3	4	5	6	13	25	38	63	101	126
80%	1	3	4	6	7	14	29	43	72	115	144
90%	2	3	5	6	8	16	32	49	81	130	162
100%	2	4	5	7	9	18	36	54	90	144	180

Table 0-727: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	7	13	27	40	67	108	135
20%	3	5	8	11	13	27	54	81	135	216	270
30%	4	8	12	16	20	40	81	121	202	324	405
40%	5	11	16	22	27	54	108	162	270	432	539
50%	7	13	20	27	34	67	135	202	337	539	674
60%	8	16	24	32	40	81	162	243	405	647	809
70%	9	19	28	38	47	94	189	283	472	755	944
80%	11	22	32	43	54	108	216	324	539	863	1079
90%	12	24	36	49	61	121	243	364	607	971	1214
100%	13	27	40	54	67	135	270	405	674	1079	1349

Table 0-728: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	16	24	40	65	81
20%	2	3	5	6	8	16	32	48	81	129	161
30%	2	5	7	10	12	24	48	73	121	194	242
40%	3	6	10	13	16	32	65	97	161	258	323
50%	4	8	12	16	20	40	81	121	202	323	403
60%	5	10	15	19	24	48	97	145	242	387	484
70%	6	11	17	23	28	56	113	169	282	452	565
80%	6	13	19	26	32	65	129	194	323	516	645
90%	7	15	22	29	36	73	145	218	363	581	726
100%	8	16	24	32	40	81	161	242	403	645	807

Table 0-729: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	11	19	30	38
20%	1	2	2	3	4	8	15	23	38	60	75
30%	1	2	3	5	6	11	23	34	56	90	113
40%	2	3	5	6	8	15	30	45	75	120	150
50%	2	4	6	8	9	19	38	56	94	150	188
60%	2	5	7	9	11	23	45	68	113	180	225
70%	3	5	8	11	13	26	53	79	131	210	263
80%	3	6	9	12	15	30	60	90	150	240	300
90%	3	7	10	14	17	34	68	101	169	270	338
100%	4	8	11	15	19	38	75	113	188	300	375

11.1.8.3 Gannet: SEP

Table 0-730: Potential displacement (down) and mortality (across) of gannet in SEP+2km buffer during autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	21	34	43
20%	1	2	3	3	4	9	17	26	43	68	85
30%	1	3	4	5	6	13	26	38	64	102	128
40%	2	3	5	7	9	17	34	51	85	136	170
50%	2	4	6	9	11	21	43	64	107	170	213
60%	3	5	8	10	13	26	51	77	128	204	256
70%	3	6	9	12	15	30	60	89	149	239	298
80%	3	7	10	14	17	34	68	102	170	273	341
90%	4	8	12	15	19	38	77	115	192	307	383
100%	4	9	13	17	21	43	85	128	213	341	426

Table 0-731: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	15	24	29
20%	1	1	2	2	3	6	12	18	29	47	59
30%	1	2	3	4	4	9	18	27	44	71	88
40%	1	2	4	5	6	12	24	35	59	94	118
50%	1	3	4	6	7	15	29	44	74	118	147
60%	2	4	5	7	9	18	35	53	88	141	177
70%	2	4	6	8	10	21	41	62	103	165	206
80%	2	5	7	9	12	24	47	71	118	188	236
90%	3	5	8	11	13	27	53	80	133	212	265
100%	3	6	9	12	15	29	59	88	147	236	295

Table 0-732: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	15	19
20%	0	1	1	2	2	4	8	12	19	31	39
30%	1	1	2	2	3	6	12	17	29	46	58
40%	1	2	2	3	4	8	15	23	39	62	77
50%	1	2	3	4	5	10	19	29	48	77	96
60%	1	2	3	5	6	12	23	35	58	92	116
70%	1	3	4	5	7	13	27	40	67	108	135
80%	2	3	5	6	8	15	31	46	77	123	154
90%	2	3	5	7	9	17	35	52	87	139	173
100%	2	4	6	8	10	19	39	58	96	154	193

Table 0-733: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	15	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	20	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	31

Table 0-734: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	3	4	7	8
90%	0	0	0	0	0	1	2	3	5	8	9
100%	0	0	0	0	1	1	2	3	5	8	11

Table 0-735: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-736: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	8	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	6	9	15	19
50%	0	0	1	1	1	2	5	7	12	19	24
60%	0	1	1	1	1	3	6	8	14	23	28
70%	0	1	1	1	2	3	7	10	16	26	33
80%	0	1	1	2	2	4	8	11	19	30	38
90%	0	1	1	2	2	4	8	13	21	34	42
100%	0	1	1	2	2	5	9	14	24	38	47

Table 0-737: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	12
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	18
90%	0	0	1	1	1	2	4	6	10	17	21
100%	0	0	1	1	1	2	5	7	12	18	23

Table 0-738: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	2
70%	0	0	0	0	0	0	0	1	1	1	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-739: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	10	15	25	40	50
20%	1	2	3	4	5	10	20	30	50	81	101
30%	2	3	5	6	8	15	30	45	76	121	151
40%	2	4	6	8	10	20	40	60	101	161	201
50%	3	5	8	10	13	25	50	76	126	201	252
60%	3	6	9	12	15	30	60	91	151	242	302
70%	4	7	11	14	18	35	70	106	176	282	352
80%	4	8	12	16	20	40	81	121	201	322	403
90%	5	9	14	18	23	45	91	136	227	363	453
100%	5	10	15	20	25	50	101	151	252	403	504

Table 0-740: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	16	26	33
20%	1	1	2	3	3	7	13	20	33	52	66
30%	1	2	3	4	5	10	20	30	49	79	98
40%	1	3	4	5	7	13	26	39	66	105	131
50%	2	3	5	7	8	16	33	49	82	131	164
60%	2	4	6	8	10	20	39	59	98	157	197
70%	2	5	7	9	11	23	46	69	115	184	230
80%	3	5	8	10	13	26	52	79	131	210	262
90%	3	6	9	12	15	30	59	89	148	236	295
100%	3	7	10	13	16	33	66	98	164	262	328

Table 0-741: Potential displacement (down) and mortality (across) for gannet in SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	31	39
30%	1	1	2	2	3	6	12	18	29	47	59
40%	1	2	2	3	4	8	16	23	39	62	78
50%	1	2	3	4	5	10	20	29	49	78	98
60%	1	2	4	5	6	12	23	35	59	94	117
70%	1	3	4	5	7	14	27	41	68	109	137
80%	2	3	5	6	8	16	31	47	78	125	156
90%	2	4	5	7	9	18	35	53	88	140	176
100%	2	4	6	8	10	20	39	59	98	156	195

11.1.8.4 Gannet: SEP and DEP Combined

Table 0-742: Potential displacement (down) and mortality (across) of gannet in DEP+2km buffer and SEP+2km buffer during autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	20	29	49	78	98
20%	2	4	6	8	10	20	39	59	98	157	196
30%	3	6	9	12	15	29	59	88	147	235	294
40%	4	8	12	16	20	39	78	118	196	314	392
50%	5	10	15	20	25	49	98	147	245	392	490
60%	6	12	18	24	29	59	118	176	294	470	588
70%	7	14	21	27	34	69	137	206	343	549	686
80%	8	16	24	31	39	78	157	235	392	627	784
90%	9	18	26	35	44	88	176	265	441	706	882
100%	10	20	29	39	49	98	196	294	490	784	980

Table 0-743: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	6	13	19	32	51	64
20%	1	3	4	5	6	13	26	38	64	102	128
30%	2	4	6	8	10	19	38	57	96	153	191
40%	3	5	8	10	13	26	51	77	128	204	255
50%	3	6	10	13	16	32	64	96	159	255	319
60%	4	8	11	15	19	38	77	115	191	306	383
70%	4	9	13	18	22	45	89	134	223	357	446
80%	5	10	15	20	26	51	102	153	255	408	510
90%	6	11	17	23	29	57	115	172	287	459	574
100%	6	13	19	26	32	64	128	191	319	510	638

Table 0-744: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	11	19	30	38
20%	1	2	2	3	4	8	15	23	38	60	76
30%	1	2	3	5	6	11	23	34	57	91	113
40%	2	3	5	6	8	15	30	45	76	121	151
50%	2	4	6	8	9	19	38	57	95	151	189
60%	2	5	7	9	11	23	45	68	113	181	227
70%	3	5	8	11	13	26	53	79	132	212	265
80%	3	6	9	12	15	30	60	91	151	242	302
90%	3	7	10	14	17	34	68	102	170	272	340
100%	4	8	11	15	19	38	76	113	189	302	378

Table 0-745: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	13
20%	0	1	1	1	1	3	5	8	13	21	27
30%	0	1	1	2	2	4	8	12	20	32	40
40%	1	1	2	2	3	5	11	16	27	43	53
50%	1	1	2	3	3	7	13	20	33	53	67
60%	1	2	2	3	4	8	16	24	40	64	80
70%	1	2	3	4	5	9	19	28	47	74	93
80%	1	2	3	4	5	11	21	32	53	85	106
90%	1	2	4	5	6	12	24	36	60	96	120
100%	1	3	4	5	7	13	27	40	67	106	133

Table 0-746: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	11
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	11	18	23
50%	0	1	1	1	1	3	6	9	14	23	29
60%	0	1	1	1	2	3	7	10	17	27	34
70%	0	1	1	2	2	4	8	12	20	32	40
80%	0	1	1	2	2	5	9	14	23	36	46
90%	1	1	2	2	3	5	10	15	26	41	51
100%	1	1	2	2	3	6	11	17	29	46	57

Table 0-747: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	5	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-748: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	15	22	37	59	74
20%	1	3	4	6	7	15	30	44	74	118	148
30%	2	4	7	9	11	22	44	67	111	177	222
40%	3	6	9	12	15	30	59	89	148	236	296
50%	4	7	11	15	18	37	74	111	185	296	370
60%	4	9	13	18	22	44	89	133	222	355	443
70%	5	10	16	21	26	52	103	155	259	414	517
80%	6	12	18	24	30	59	118	177	296	473	591
90%	7	13	20	27	33	67	133	200	333	532	665
100%	7	15	22	30	37	74	148	222	370	591	739

Table 0-749: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	22	35	44
20%	1	2	3	4	4	9	18	26	44	70	88
30%	1	3	4	5	7	13	26	40	66	106	132
40%	2	4	5	7	9	18	35	53	88	141	176
50%	2	4	7	9	11	22	44	66	110	176	220
60%	3	5	8	11	13	26	53	79	132	211	264
70%	3	6	9	12	15	31	62	92	154	246	308
80%	4	7	11	14	18	35	70	106	176	282	352
90%	4	8	12	16	20	40	79	119	198	317	396
100%	4	9	13	18	22	44	88	132	220	352	440

Table 0-750: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	15	18
20%	0	1	1	1	2	4	7	11	18	29	37
30%	1	1	2	2	3	5	11	16	27	44	55
40%	1	1	2	3	4	7	15	22	37	58	73
50%	1	2	3	4	5	9	18	27	46	73	91
60%	1	2	3	4	5	11	22	33	55	88	110
70%	1	3	4	5	6	13	26	38	64	102	128
80%	1	3	4	6	7	15	29	44	73	117	146
90%	2	3	5	7	8	16	33	49	82	131	164
100%	2	4	5	7	9	18	37	55	91	146	183

Table 0-751: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	7	9	19	37	56	93	148	185
20%	4	7	11	15	19	37	74	111	185	296	370
30%	6	11	17	22	28	56	111	167	278	444	556
40%	7	15	22	30	37	74	148	222	370	593	741
50%	9	19	28	37	46	93	185	278	463	741	926
60%	11	22	33	44	56	111	222	333	556	889	1111
70%	13	26	39	52	65	130	259	389	648	1037	1296
80%	15	30	44	59	74	148	296	444	741	1185	1482
90%	17	33	50	67	83	167	333	500	833	1333	1667
100%	19	37	56	74	93	185	370	556	926	1482	1852

Table 0-752: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	5	6	11	23	34	57	91	113
20%	2	5	7	9	11	23	45	68	113	182	227
30%	3	7	10	14	17	34	68	102	170	272	340
40%	5	9	14	18	23	45	91	136	227	363	454
50%	6	11	17	23	28	57	113	170	284	454	567
60%	7	14	20	27	34	68	136	204	340	545	681
70%	8	16	24	32	40	79	159	238	397	635	794
80%	9	18	27	36	45	91	182	272	454	726	908
90%	10	20	31	41	51	102	204	306	511	817	1021
100%	11	23	34	45	57	113	227	340	567	908	1135

Table 0-753: Potential displacement (down) and mortality (across) for gannet in DEP+2km buffer and SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	29	46	57
20%	1	2	3	5	6	11	23	34	57	91	114
30%	2	3	5	7	9	17	34	51	86	137	171
40%	2	5	7	9	11	23	46	68	114	182	228
50%	3	6	9	11	14	29	57	86	143	228	285
60%	3	7	10	14	17	34	68	103	171	274	342
70%	4	8	12	16	20	40	80	120	200	319	399
80%	5	9	14	18	23	46	91	137	228	365	456
90%	5	10	15	21	26	51	103	154	257	410	513
100%	6	11	17	23	29	57	114	171	285	456	570

11.1.8.5 Guillemot: DEP

Table 0-754: Potential displacement (down) and mortality (across) of guillemot in DEP+2km buffer during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	25	49	74	98	123	245	490	735	1226	1961	2451
20%	49	98	147	196	245	490	980	1471	2451	3922	4902
30%	74	147	221	294	368	735	1471	2206	3677	5883	7353
40%	98	196	294	392	490	980	1961	2941	4902	7843	9804
50%	123	245	368	490	613	1226	2451	3677	6128	9804	12255
60%	147	294	441	588	735	1471	2941	4412	7353	11765	14706
70%	172	343	515	686	858	1716	3431	5147	8579	13726	17157
80%	196	392	588	784	980	1961	3922	5883	9804	15687	19608
90%	221	441	662	882	1103	2206	4412	6618	11030	17648	22059
100%	245	490	735	980	1226	2451	4902	7353	12255	19608	24511

Table 0-755: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	15	30	45	60	74	149	298	447	744	1191	1489
20%	30	60	89	119	149	298	595	893	1489	2382	2977
30%	45	89	134	179	223	447	893	1340	2233	3573	4466
40%	60	119	179	238	298	595	1191	1786	2977	4764	5955
50%	74	149	223	298	372	744	1489	2233	3722	5955	7444
60%	89	179	268	357	447	893	1786	2680	4466	7146	8932
70%	104	208	313	417	521	1042	2084	3126	5210	8337	10421
80%	119	238	357	476	595	1191	2382	3573	5955	9528	11910
90%	134	268	402	536	670	1340	2680	4019	6699	10719	13398
100%	149	298	447	595	744	1489	2977	4466	7444	11910	14887

Table 0-756: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	8	16	23	31	39	78	157	235	391	626	783
20%	16	31	47	63	78	157	313	470	783	1252	1565
30%	23	47	70	94	117	235	470	704	1174	1878	2348
40%	31	63	94	125	157	313	626	939	1565	2504	3131
50%	39	78	117	157	196	391	783	1174	1957	3131	3913
60%	47	94	141	188	235	470	939	1409	2348	3757	4696
70%	55	110	164	219	274	548	1096	1644	2739	4383	5479
80%	63	125	188	250	313	626	1252	1878	3131	5009	6261
90%	70	141	211	282	352	704	1409	2113	3522	5635	7044
100%	78	157	235	313	391	783	1565	2348	3913	6261	7827

Table 0-757: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	6	12	17	23	29	58	116	175	291	465	582
20%	12	23	35	47	58	116	233	349	582	931	1163
30%	17	35	52	70	87	175	349	524	873	1396	1745
40%	23	47	70	93	116	233	465	698	1163	1861	2327
50%	29	58	87	116	145	291	582	873	1454	2327	2909
60%	35	70	105	140	175	349	698	1047	1745	2792	3490
70%	41	81	122	163	204	407	814	1222	2036	3258	4072
80%	47	93	140	186	233	465	931	1396	2327	3723	4654
90%	52	105	157	209	262	524	1047	1571	2618	4188	5235
100%	58	116	175	233	291	582	1163	1745	2909	4654	5817

Table 0-758: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	4	8	12	15	19	38	77	115	192	307	384
20%	8	15	23	31	38	77	154	230	384	614	768
30%	12	23	35	46	58	115	230	346	576	921	1152
40%	15	31	46	61	77	154	307	461	768	1228	1536
50%	19	38	58	77	96	192	384	576	960	1536	1920
60%	23	46	69	92	115	230	461	691	1152	1843	2303
70%	27	54	81	107	134	269	537	806	1344	2150	2687
80%	31	61	92	123	154	307	614	921	1536	2457	3071
90%	35	69	104	138	173	346	691	1037	1728	2764	3455
100%	38	77	115	154	192	384	768	1152	1920	3071	3839

Table 0-759: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	10	12	24	48	71	119	190	238
20%	5	10	14	19	24	48	95	143	238	380	475
30%	7	14	21	29	36	71	143	214	356	570	713
40%	10	19	29	38	48	95	190	285	475	760	950
50%	12	24	36	48	59	119	238	356	594	950	1188
60%	14	29	43	57	71	143	285	428	713	1140	1425
70%	17	33	50	67	83	166	333	499	831	1330	1663
80%	19	38	57	76	95	190	380	570	950	1520	1900
90%	21	43	64	86	107	214	428	641	1069	1710	2138
100%	24	48	71	95	119	238	475	713	1188	1900	2376

Table 0-760: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	30	61	91	121	152	303	607	910	1516	2426	3033
20%	61	121	182	243	303	607	1213	1820	3033	4852	6066
30%	91	182	273	364	455	910	1820	2729	4549	7279	9098
40%	121	243	364	485	607	1213	2426	3639	6066	9705	12131
50%	152	303	455	607	758	1516	3033	4549	7582	12131	15164
60%	182	364	546	728	910	1820	3639	5459	9098	14557	18197
70%	212	425	637	849	1061	2123	4246	6369	10615	16983	21229
80%	243	485	728	970	1213	2426	4852	7279	12131	19410	24262
90%	273	546	819	1092	1365	2729	5459	8188	13647	21836	27295
100%	303	607	910	1213	1516	3033	6066	9098	15164	24262	30328

Table 0-761: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	19	37	56	75	94	187	375	562	936	1498	1873
20%	37	75	112	150	187	375	749	1124	1873	2996	3745
30%	56	112	169	225	281	562	1124	1685	2809	4494	5618
40%	75	150	225	300	375	749	1498	2247	3745	5992	7490
50%	94	187	281	375	468	936	1873	2809	4682	7490	9363
60%	112	225	337	449	562	1124	2247	3371	5618	8988	11236
70%	131	262	393	524	655	1311	2622	3932	6554	10487	13108
80%	150	300	449	599	749	1498	2996	4494	7490	11985	14981
90%	169	337	506	674	843	1685	3371	5056	8427	13483	16853
100%	187	375	562	749	936	1873	3745	5618	9363	14981	18726

Table 0-762: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	10	20	31	41	51	102	204	306	510	816	1020
20%	20	41	61	82	102	204	408	612	1020	1632	2040
30%	31	61	92	122	153	306	612	918	1530	2448	3061
40%	41	82	122	163	204	408	816	1224	2040	3265	4081
50%	51	102	153	204	255	510	1020	1530	2551	4081	5101
60%	61	122	184	245	306	612	1224	1836	3061	4897	6121
70%	71	143	214	286	357	714	1428	2142	3571	5713	7141
80%	82	163	245	326	408	816	1632	2448	4081	6529	8162
90%	92	184	275	367	459	918	1836	2755	4591	7345	9182
100%	102	204	306	408	510	1020	2040	3061	5101	8162	10202

11.1.8.6 Guillemot: SEP

Table 0-763: Potential displacement (down) and mortality (across) of guillemot in SEP+2km buffer during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	3	5	6	8	16	31	47	78	126	157
20%	3	6	9	13	16	31	63	94	157	251	314
30%	5	9	14	19	24	47	94	141	235	377	471
40%	6	13	19	25	31	63	126	188	314	502	628
50%	8	16	24	31	39	78	157	235	392	628	785
60%	9	19	28	38	47	94	188	282	471	753	941
70%	11	22	33	44	55	110	220	329	549	879	1098
80%	13	25	38	50	63	126	251	377	628	1004	1255
90%	14	28	42	56	71	141	282	424	706	1130	1412
100%	16	31	47	63	78	157	314	471	785	1255	1569

Table 0-764: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	11	22	33	54	87	108
20%	2	4	7	9	11	22	43	65	108	174	217
30%	3	7	10	13	16	33	65	98	163	260	325
40%	4	9	13	17	22	43	87	130	217	347	434
50%	5	11	16	22	27	54	108	163	271	434	542
60%	7	13	20	26	33	65	130	195	325	521	651
70%	8	15	23	30	38	76	152	228	380	607	759
80%	9	17	26	35	43	87	174	260	434	694	868
90%	10	20	29	39	49	98	195	293	488	781	976
100%	11	22	33	43	54	108	217	325	542	868	1085

Table 0-765: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	13	20	33	53	66
20%	1	3	4	5	7	13	26	40	66	106	132
30%	2	4	6	8	10	20	40	59	99	159	198
40%	3	5	8	11	13	26	53	79	132	212	264
50%	3	7	10	13	17	33	66	99	165	264	331
60%	4	8	12	16	20	40	79	119	198	317	397
70%	5	9	14	19	23	46	93	139	231	370	463
80%	5	11	16	21	26	53	106	159	264	423	529
90%	6	12	18	24	30	59	119	178	297	476	595
100%	7	13	20	26	33	66	132	198	331	529	661

Table 0-766: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	7	9	19	37	56	93	149	187
20%	4	7	11	15	19	37	75	112	187	299	374
30%	6	11	17	22	28	56	112	168	280	448	560
40%	7	15	22	30	37	75	149	224	374	598	747
50%	9	19	28	37	47	93	187	280	467	747	934
60%	11	22	34	45	56	112	224	336	560	896	1121
70%	13	26	39	52	65	131	261	392	654	1046	1307
80%	15	30	45	60	75	149	299	448	747	1195	1494
90%	17	34	50	67	84	168	336	504	840	1345	1681
100%	19	37	56	75	93	187	374	560	934	1494	1868

Table 0-767: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	11	22	33	55	88	109
20%	2	4	7	9	11	22	44	66	109	175	219
30%	3	7	10	13	16	33	66	99	164	263	328
40%	4	9	13	18	22	44	88	131	219	350	438
50%	5	11	16	22	27	55	109	164	274	438	547
60%	7	13	20	26	33	66	131	197	328	525	657
70%	8	15	23	31	38	77	153	230	383	613	766
80%	9	18	26	35	44	88	175	263	438	700	876
90%	10	20	30	39	49	99	197	296	493	788	985
100%	11	22	33	44	55	109	219	328	547	876	1095

Table 0-768: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	18	30	47	59
20%	1	2	4	5	6	12	24	36	59	95	118
30%	2	4	5	7	9	18	36	53	89	142	178
40%	2	5	7	9	12	24	47	71	118	189	237
50%	3	6	9	12	15	30	59	89	148	237	296
60%	4	7	11	14	18	36	71	107	178	284	355
70%	4	8	12	17	21	41	83	124	207	332	414
80%	5	9	14	19	24	47	95	142	237	379	474
90%	5	11	16	21	27	53	107	160	266	426	533
100%	6	12	18	24	30	59	118	178	296	474	592

Table 0-769: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	7	10	14	17	34	69	103	172	275	344
20%	7	14	21	27	34	69	137	206	344	550	687
30%	10	21	31	41	52	103	206	309	515	825	1031
40%	14	27	41	55	69	137	275	412	687	1100	1375
50%	17	34	52	69	86	172	344	515	859	1375	1718
60%	21	41	62	82	103	206	412	619	1031	1650	2062
70%	24	48	72	96	120	241	481	722	1203	1924	2406
80%	27	55	82	110	137	275	550	825	1375	2199	2749
90%	31	62	93	124	155	309	619	928	1546	2474	3093
100%	34	69	103	137	172	344	687	1031	1718	2749	3437

Table 0-770: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	7	9	11	22	44	65	109	174	218
20%	4	9	13	17	22	44	87	131	218	349	436
30%	7	13	20	26	33	65	131	196	327	523	654
40%	9	17	26	35	44	87	174	261	436	697	872
50%	11	22	33	44	54	109	218	327	545	872	1090
60%	13	26	39	52	65	131	261	392	654	1046	1307
70%	15	31	46	61	76	153	305	458	763	1220	1525
80%	17	35	52	70	87	174	349	523	872	1395	1743
90%	20	39	59	78	98	196	392	588	981	1569	1961
100%	22	44	65	87	109	218	436	654	1090	1743	2179

Table 0-771: Potential displacement (down) and mortality (across) for guillemot in SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	6	13	25	38	63	100	125
20%	3	5	8	10	13	25	50	75	125	200	251
30%	4	8	11	15	19	38	75	113	188	301	376
40%	5	10	15	20	25	50	100	150	251	401	501
50%	6	13	19	25	31	63	125	188	313	501	627
60%	8	15	23	30	38	75	150	226	376	601	752
70%	9	18	26	35	44	88	175	263	439	702	877
80%	10	20	30	40	50	100	200	301	501	802	1002
90%	11	23	34	45	56	113	226	338	564	902	1128
100%	13	25	38	50	63	125	251	376	627	1002	1253

11.1.8.7 Guillemot: SEP and DEP Combined

Table 0-772: Potential displacement (down) and mortality (across) of guillemot in DEP+2km buffer and SEP+2km buffer during the non-breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	26	52	78	104	130	261	522	782	1304	2086	2608
20%	52	104	156	209	261	522	1043	1565	2608	4173	5216
30%	78	156	235	313	391	782	1565	2347	3912	6259	7824
40%	104	209	313	417	522	1043	2086	3130	5216	8345	10432
50%	130	261	391	522	652	1304	2608	3912	6520	10432	13040
60%	156	313	469	626	782	1565	3130	4694	7824	12518	15648
70%	183	365	548	730	913	1826	3651	5477	9128	14605	18256
80%	209	417	626	835	1043	2086	4173	6259	10432	16691	20864
90%	235	469	704	939	1174	2347	4694	7041	11736	18777	23472
100%	261	522	782	1043	1304	2608	5216	7824	13040	20864	26080

Table 0-773: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer during the non-breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	16	32	48	64	80	160	319	479	799	1278	1597
20%	32	64	96	128	160	319	639	958	1597	2555	3194
30%	48	96	144	192	240	479	958	1437	2396	3833	4791
40%	64	128	192	256	319	639	1278	1917	3194	5111	6389
50%	80	160	240	319	399	799	1597	2396	3993	6389	7986
60%	96	192	287	383	479	958	1917	2875	4791	7666	9583
70%	112	224	335	447	559	1118	2236	3354	5590	8944	11180
80%	128	256	383	511	639	1278	2555	3833	6389	10222	12777
90%	144	287	431	575	719	1437	2875	4312	7187	11499	14374
100%	160	319	479	639	799	1597	3194	4791	7986	12777	15972

Table 0-774: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer during the non-breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	8	17	25	34	42	85	170	255	424	679	849
20%	17	34	51	68	85	170	340	509	849	1358	1698
30%	25	51	76	102	127	255	509	764	1273	2037	2546
40%	34	68	102	136	170	340	679	1019	1698	2716	3395
50%	42	85	127	170	212	424	849	1273	2122	3395	4244
60%	51	102	153	204	255	509	1019	1528	2546	4074	5093
70%	59	119	178	238	297	594	1188	1782	2971	4753	5941
80%	68	136	204	272	340	679	1358	2037	3395	5432	6790
90%	76	153	229	306	382	764	1528	2292	3819	6111	7639
100%	85	170	255	340	424	849	1698	2546	4244	6790	8488

Table 0-775: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	8	15	23	31	38	77	154	231	384	615	768
20%	15	31	46	61	77	154	307	461	768	1230	1537
30%	23	46	69	92	115	231	461	692	1153	1844	2305
40%	31	61	92	123	154	307	615	922	1537	2459	3074
50%	38	77	115	154	192	384	768	1153	1921	3074	3842
60%	46	92	138	184	231	461	922	1383	2305	3689	4611
70%	54	108	161	215	269	538	1076	1614	2690	4303	5379
80%	61	123	184	246	307	615	1230	1844	3074	4918	6148
90%	69	138	207	277	346	692	1383	2075	3458	5533	6916
100%	77	154	231	307	384	768	1537	2305	3842	6148	7685

Table 0-776: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	5	10	15	20	25	49	99	148	247	395	493
20%	10	20	30	39	49	99	197	296	493	789	987
30%	15	30	44	59	74	148	296	444	740	1184	1480
40%	20	39	59	79	99	197	395	592	987	1579	1973
50%	25	49	74	99	123	247	493	740	1233	1973	2467
60%	30	59	89	118	148	296	592	888	1480	2368	2960
70%	35	69	104	138	173	345	691	1036	1727	2763	3453
80%	39	79	118	158	197	395	789	1184	1973	3157	3947
90%	44	89	133	178	222	444	888	1332	2220	3552	4440
100%	49	99	148	197	247	493	987	1480	2467	3947	4934

Table 0-777: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	6	9	12	15	30	59	89	148	237	297
20%	6	12	18	24	30	59	119	178	297	475	594
30%	9	18	27	36	45	89	178	267	445	712	890
40%	12	24	36	47	59	119	237	356	594	950	1187
50%	15	30	45	59	74	148	297	445	742	1187	1484
60%	18	36	53	71	89	178	356	534	890	1424	1781
70%	21	42	62	83	104	208	415	623	1039	1662	2077
80%	24	47	71	95	119	237	475	712	1187	1899	2374
90%	27	53	80	107	134	267	534	801	1335	2137	2671
100%	30	59	89	119	148	297	594	890	1484	2374	2968

Table 0-778: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	34	68	101	135	169	338	675	1013	1688	2701	3376
20%	68	135	203	270	338	675	1351	2026	3376	5402	6753
30%	101	203	304	405	506	1013	2026	3039	5065	8103	10129
40%	135	270	405	540	675	1351	2701	4052	6753	10804	13506
50%	169	338	506	675	844	1688	3376	5065	8441	13506	16882
60%	203	405	608	810	1013	2026	4052	6078	10129	16207	20258
70%	236	473	709	945	1182	2363	4727	7090	11817	18908	23635
80%	270	540	810	1080	1351	2701	5402	8103	13506	21609	27011
90%	304	608	912	1216	1519	3039	6078	9116	15194	24310	30388
100%	338	675	1013	1351	1688	3376	6753	10129	16882	27011	33764

Table 0-779: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	21	42	63	84	105	209	418	627	1045	1672	2091
20%	42	84	125	167	209	418	836	1254	2091	3345	4181
30%	63	125	188	251	314	627	1254	1881	3136	5017	6272
40%	84	167	251	334	418	836	1672	2509	4181	6690	8362
50%	105	209	314	418	523	1045	2091	3136	5226	8362	10453
60%	125	251	376	502	627	1254	2509	3763	6272	10034	12543
70%	146	293	439	585	732	1463	2927	4390	7317	11707	14634
80%	167	334	502	669	836	1672	3345	5017	8362	13379	16724
90%	188	376	564	753	941	1881	3763	5644	9407	15052	18815
100%	209	418	627	836	1045	2091	4181	6272	10453	16724	20905

Table 0-780: Potential displacement (down) and mortality (across) for guillemot in DEP+2km buffer and SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	11	23	34	46	57	115	229	344	573	916	1146
20%	23	46	69	92	115	229	458	687	1146	1833	2291
30%	34	69	103	137	172	344	687	1031	1718	2749	3437
40%	46	92	137	183	229	458	916	1375	2291	3666	4582
50%	57	115	172	229	286	573	1146	1718	2864	4582	5728
60%	69	137	206	275	344	687	1375	2062	3437	5498	6873
70%	80	160	241	321	401	802	1604	2406	4009	6415	8019
80%	92	183	275	367	458	916	1833	2749	4582	7331	9164
90%	103	206	309	412	515	1031	2062	3093	5155	8248	10310
100%	115	229	344	458	573	1146	2291	3437	5728	9164	11455

11.1.8.8 Razorbill: DEP

Table 0-781: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	6	7	15	29	44	73	117	147
20%	3	6	9	12	15	29	59	88	147	235	294
30%	4	9	13	18	22	44	88	132	220	352	441
40%	6	12	18	23	29	59	117	176	294	470	587
50%	7	15	22	29	37	73	147	220	367	587	734
60%	9	18	26	35	44	88	176	264	441	705	881
70%	10	21	31	41	51	103	206	308	514	822	1028
80%	12	23	35	47	59	117	235	352	587	940	1175
90%	13	26	40	53	66	132	264	396	661	1057	1322
100%	15	29	44	59	73	147	294	441	734	1175	1469

Table 0-782: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	9	18	28	46	74	92
20%	2	4	6	7	9	18	37	55	92	148	185
30%	3	6	8	11	14	28	55	83	138	222	277
40%	4	7	11	15	18	37	74	111	185	295	369
50%	5	9	14	18	23	46	92	138	231	369	462
60%	6	11	17	22	28	55	111	166	277	443	554
70%	6	13	19	26	32	65	129	194	323	517	646
80%	7	15	22	30	37	74	148	222	369	591	738
90%	8	17	25	33	42	83	166	249	415	665	831
100%	9	18	28	37	46	92	185	277	462	738	923

Table 0-783: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	10	16	26	41	52
20%	1	2	3	4	5	10	21	31	52	83	104
30%	2	3	5	6	8	16	31	47	78	124	155
40%	2	4	6	8	10	21	41	62	104	166	207
50%	3	5	8	10	13	26	52	78	130	207	259
60%	3	6	9	12	16	31	62	93	155	249	311
70%	4	7	11	15	18	36	73	109	181	290	363
80%	4	8	12	17	21	41	83	124	207	332	414
90%	5	9	14	19	23	47	93	140	233	373	466
100%	5	10	16	21	26	52	104	155	259	414	518

Table 0-784: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	7	13	27	40	67	108	135
20%	3	5	8	11	13	27	54	81	135	216	270
30%	4	8	12	16	20	40	81	121	202	324	404
40%	5	11	16	22	27	54	108	162	270	431	539
50%	7	13	20	27	34	67	135	202	337	539	674
60%	8	16	24	32	40	81	162	243	404	647	809
70%	9	19	28	38	47	94	189	283	472	755	944
80%	11	22	32	43	54	108	216	324	539	863	1078
90%	12	24	36	49	61	121	243	364	607	971	1213
100%	13	27	40	54	67	135	270	404	674	1078	1348

Table 0-785: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	3	4	8	17	25	42	68	85
20%	2	3	5	7	8	17	34	51	85	135	169
30%	3	5	8	10	13	25	51	76	127	203	254
40%	3	7	10	14	17	34	68	101	169	270	338
50%	4	8	13	17	21	42	85	127	211	338	423
60%	5	10	15	20	25	51	101	152	254	406	507
70%	6	12	18	24	30	59	118	177	296	473	592
80%	7	14	20	27	34	68	135	203	338	541	676
90%	8	15	23	30	38	76	152	228	380	608	761
100%	8	17	25	34	42	85	169	254	423	676	845

Table 0-786: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	22	36	45
20%	1	2	3	4	4	9	18	27	45	72	90
30%	1	3	4	5	7	13	27	40	67	108	135
40%	2	4	5	7	9	18	36	54	90	144	180
50%	2	4	7	9	11	22	45	67	112	180	225
60%	3	5	8	11	13	27	54	81	135	216	270
70%	3	6	9	13	16	31	63	94	157	252	315
80%	4	7	11	14	18	36	72	108	180	288	360
90%	4	8	12	16	20	40	81	121	202	324	405
100%	4	9	13	18	22	45	90	135	225	360	450

Table 0-787: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	13	20	33	52	65
20%	1	3	4	5	7	13	26	39	65	104	130
30%	2	4	6	8	10	20	39	59	98	156	195
40%	3	5	8	10	13	26	52	78	130	208	261
50%	3	7	10	13	16	33	65	98	163	261	326
60%	4	8	12	16	20	39	78	117	195	313	391
70%	5	9	14	18	23	46	91	137	228	365	456
80%	5	10	16	21	26	52	104	156	261	417	521
90%	6	12	18	23	29	59	117	176	293	469	586
100%	7	13	20	26	33	65	130	195	326	521	652

Table 0-788: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	10	16	26	32
20%	1	1	2	3	3	6	13	19	32	51	64
30%	1	2	3	4	5	10	19	29	48	77	96
40%	1	3	4	5	6	13	26	38	64	102	128
50%	2	3	5	6	8	16	32	48	80	128	160
60%	2	4	6	8	10	19	38	58	96	154	192
70%	2	4	7	9	11	22	45	67	112	179	224
80%	3	5	8	10	13	26	51	77	128	205	256
90%	3	6	9	12	14	29	58	86	144	230	288
100%	3	6	10	13	16	32	64	96	160	256	320

Table 0-789: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	8
20%	0	0	1	1	1	2	3	5	8	14	17
30%	0	1	1	1	1	3	5	8	13	20	25
40%	0	1	1	1	2	3	7	10	17	27	34
50%	0	1	1	2	2	4	8	13	21	34	42
60%	1	1	2	2	3	5	10	15	25	41	51
70%	1	1	2	2	3	6	12	18	30	47	59
80%	1	1	2	3	3	7	14	20	34	54	68
90%	1	2	2	3	4	8	15	23	38	61	76
100%	1	2	3	3	4	8	17	25	42	68	85

Table 0-790: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	7	14	21	27	34	69	137	206	343	549	686
20%	14	27	41	55	69	137	274	411	686	1097	1371
30%	21	41	62	82	103	206	411	617	1028	1646	2057
40%	27	55	82	110	137	274	549	823	1371	2194	2743
50%	34	69	103	137	171	343	686	1028	1714	2743	3428
60%	41	82	123	165	206	411	823	1234	2057	3291	4114
70%	48	96	144	192	240	480	960	1440	2400	3840	4800
80%	55	110	165	219	274	549	1097	1646	2743	4388	5485
90%	62	123	185	247	309	617	1234	1851	3085	4937	6171
100%	69	137	206	274	343	686	1371	2057	3428	5485	6857

Table 0-791: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	4	7	11	15	19	37	75	112	187	299	374
20%	7	15	22	30	37	75	150	224	374	599	748
30%	11	22	34	45	56	112	224	337	561	898	1122
40%	15	30	45	60	75	150	299	449	748	1197	1496
50%	19	37	56	75	94	187	374	561	935	1496	1871
60%	22	45	67	90	112	224	449	673	1122	1796	2245
70%	26	52	79	105	131	262	524	786	1309	2095	2619
80%	30	60	90	120	150	299	599	898	1496	2394	2993
90%	34	67	101	135	168	337	673	1010	1683	2694	3367
100%	37	75	112	150	187	374	748	1122	1871	2993	3741

Table 0-792: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	6	13	25	38	63	101	127
20%	3	5	8	10	13	25	51	76	127	202	253
30%	4	8	11	15	19	38	76	114	190	304	380
40%	5	10	15	20	25	51	101	152	253	405	506
50%	6	13	19	25	32	63	127	190	316	506	633
60%	8	15	23	30	38	76	152	228	380	607	759
70%	9	18	27	35	44	89	177	266	443	709	886
80%	10	20	30	40	51	101	202	304	506	810	1012
90%	11	23	34	46	57	114	228	342	569	911	1139
100%	13	25	38	51	63	127	253	380	633	1012	1266

Table 0-793: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	10	21	31	41	52	103	206	310	516	826	1032
20%	21	41	62	83	103	206	413	619	1032	1652	2065
30%	31	62	93	124	155	310	619	929	1549	2478	3097
40%	41	83	124	165	206	413	826	1239	2065	3304	4130
50%	52	103	155	206	258	516	1032	1549	2581	4130	5162
60%	62	124	186	248	310	619	1239	1858	3097	4956	6195
70%	72	145	217	289	361	723	1445	2168	3614	5782	7227
80%	83	165	248	330	413	826	1652	2478	4130	6608	8260
90%	93	186	279	372	465	929	1858	2788	4646	7434	9292
100%	103	206	310	413	516	1032	2065	3097	5162	8260	10325

Table 0-794: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	6	12	17	23	29	58	117	175	291	466	583
20%	12	23	35	47	58	117	233	350	583	933	1166
30%	17	35	52	70	87	175	350	525	874	1399	1749
40%	23	47	70	93	117	233	466	699	1166	1865	2332
50%	29	58	87	117	146	291	583	874	1457	2332	2915
60%	35	70	105	140	175	350	699	1049	1749	2798	3497
70%	41	82	122	163	204	408	816	1224	2040	3264	4080
80%	47	93	140	187	233	466	933	1399	2332	3731	4663
90%	52	105	157	210	262	525	1049	1574	2623	4197	5246
100%	58	117	175	233	291	583	1166	1749	2915	4663	5829

Table 0-795: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	9	12	23	46	70	116	185	232
20%	5	9	14	19	23	46	93	139	232	371	464
30%	7	14	21	28	35	70	139	209	348	556	695
40%	9	19	28	37	46	93	185	278	464	742	927
50%	12	23	35	46	58	116	232	348	579	927	1159
60%	14	28	42	56	70	139	278	417	695	1112	1391
70%	16	32	49	65	81	162	324	487	811	1298	1622
80%	19	37	56	74	93	185	371	556	927	1483	1854
90%	21	42	63	83	104	209	417	626	1043	1669	2086
100%	23	46	70	93	116	232	464	695	1159	1854	2318

11.1.8.9 Razorbill: SEP

Table 0-796: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	13	21	34	42
20%	1	2	3	3	4	8	17	25	42	67	84
30%	1	3	4	5	6	13	25	38	63	101	126
40%	2	3	5	7	8	17	34	51	84	135	168
50%	2	4	6	8	11	21	42	63	105	168	211
60%	3	5	8	10	13	25	51	76	126	202	253
70%	3	6	9	12	15	29	59	88	147	236	295
80%	3	7	10	13	17	34	67	101	168	269	337
90%	4	8	11	15	19	38	76	114	189	303	379
100%	4	8	13	17	21	42	84	126	211	337	421

Table 0-797: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	16	25	32
20%	1	1	2	3	3	6	13	19	32	50	63
30%	1	2	3	4	5	9	19	28	47	76	95
40%	1	3	4	5	6	13	25	38	63	101	126
50%	2	3	5	6	8	16	32	47	79	126	158
60%	2	4	6	8	9	19	38	57	95	151	189
70%	2	4	7	9	11	22	44	66	110	177	221
80%	3	5	8	10	13	25	50	76	126	202	252
90%	3	6	9	11	14	28	57	85	142	227	284
100%	3	6	9	13	16	32	63	95	158	252	316

Table 0-798: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	21
20%	0	1	1	2	2	4	8	12	21	33	41
30%	1	1	2	2	3	6	12	19	31	49	62
40%	1	2	2	3	4	8	16	25	41	66	82
50%	1	2	3	4	5	10	21	31	52	82	103
60%	1	2	4	5	6	12	25	37	62	99	124
70%	1	3	4	6	7	14	29	43	72	115	144
80%	2	3	5	7	8	16	33	49	82	132	165
90%	2	4	6	7	9	19	37	56	93	148	185
100%	2	4	6	8	10	21	41	62	103	165	206

Table 0-799: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	6	11	22	33	56	89	111
20%	2	4	7	9	11	22	44	67	111	178	222
30%	3	7	10	13	17	33	67	100	167	267	334
40%	4	9	13	18	22	44	89	133	222	356	445
50%	6	11	17	22	28	56	111	167	278	445	556
60%	7	13	20	27	33	67	133	200	334	534	667
70%	8	16	23	31	39	78	156	234	389	623	778
80%	9	18	27	36	44	89	178	267	445	712	890
90%	10	20	30	40	50	100	200	300	500	801	1001
100%	11	22	33	44	56	111	222	334	556	890	1112

Table 0-800: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	14	21	34	55	69
20%	1	3	4	5	7	14	27	41	69	110	137
30%	2	4	6	8	10	21	41	62	103	165	206
40%	3	5	8	11	14	27	55	82	137	219	274
50%	3	7	10	14	17	34	69	103	171	274	343
60%	4	8	12	16	21	41	82	123	206	329	411
70%	5	10	14	19	24	48	96	144	240	384	480
80%	5	11	16	22	27	55	110	165	274	439	548
90%	6	12	19	25	31	62	123	185	308	494	617
100%	7	14	21	27	34	69	137	206	343	548	686

Table 0-801: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	20	34	54	68
30%	1	2	3	4	5	10	20	31	51	81	102
40%	1	3	4	5	7	14	27	41	68	108	136
50%	2	3	5	7	8	17	34	51	85	136	170
60%	2	4	6	8	10	20	41	61	102	163	203
70%	2	5	7	9	12	24	47	71	119	190	237
80%	3	5	8	11	14	27	54	81	136	217	271
90%	3	6	9	12	15	31	61	92	153	244	305
100%	3	7	10	14	17	34	68	102	170	271	339

Table 0-802: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	15	24	30
20%	1	1	2	2	3	6	12	18	30	48	60
30%	1	2	3	4	4	9	18	27	45	72	90
40%	1	2	4	5	6	12	24	36	60	96	120
50%	1	3	4	6	7	15	30	45	75	120	150
60%	2	4	5	7	9	18	36	54	90	144	180
70%	2	4	6	8	10	21	42	63	105	168	210
80%	2	5	7	10	12	24	48	72	120	192	240
90%	3	5	8	11	13	27	54	81	135	216	270
100%	3	6	9	12	15	30	60	90	150	240	300

Table 0-803: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	14
20%	0	1	1	1	1	3	6	9	14	23	29
30%	0	1	1	2	2	4	9	13	22	35	43
40%	1	1	2	2	3	6	12	17	29	46	58
50%	1	1	2	3	4	7	14	22	36	58	72
60%	1	2	3	3	4	9	17	26	43	69	86
70%	1	2	3	4	5	10	20	30	50	81	101
80%	1	2	3	5	6	12	23	35	58	92	115
90%	1	3	4	5	6	13	26	39	65	104	130
100%	1	3	4	6	7	14	29	43	72	115	144

Table 0-804: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	6	8
40%	0	0	0	0	1	1	2	3	5	8	10
50%	0	0	0	1	1	1	3	4	6	10	13
60%	0	0	0	1	1	2	3	5	8	12	15
70%	0	0	1	1	1	2	4	5	9	14	18
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	5	7	11	18	23
100%	0	1	1	1	1	3	5	8	13	20	26

Table 0-805: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	4	5	6	12	25	37	62	100	124
20%	2	5	7	10	12	25	50	75	124	199	249
30%	4	7	11	15	19	37	75	112	187	299	373
40%	5	10	15	20	25	50	100	149	249	398	498
50%	6	12	19	25	31	62	124	187	311	498	622
60%	7	15	22	30	37	75	149	224	373	597	747
70%	9	17	26	35	44	87	174	261	436	697	871
80%	10	20	30	40	50	100	199	299	498	796	996
90%	11	22	34	45	56	112	224	336	560	896	1120
100%	12	25	37	50	62	124	249	373	622	996	1245

Table 0-806: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	15	23	38	61	76
20%	2	3	5	6	8	15	30	46	76	121	152
30%	2	5	7	9	11	23	46	68	114	182	228
40%	3	6	9	12	15	30	61	91	152	243	304
50%	4	8	11	15	19	38	76	114	190	304	380
60%	5	9	14	18	23	46	91	137	228	364	455
70%	5	11	16	21	27	53	106	159	266	425	531
80%	6	12	18	24	30	61	121	182	304	486	607
90%	7	14	20	27	34	68	137	205	342	546	683
100%	8	15	23	30	38	76	152	228	380	607	759

Table 0-807: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	16	26	33
20%	1	1	2	3	3	7	13	20	33	52	65
30%	1	2	3	4	5	10	20	29	49	78	98
40%	1	3	4	5	7	13	26	39	65	104	130
50%	2	3	5	7	8	16	33	49	81	130	163
60%	2	4	6	8	10	20	39	59	98	156	195
70%	2	5	7	9	11	23	46	68	114	182	228
80%	3	5	8	10	13	26	52	78	130	208	260
90%	3	6	9	12	15	29	59	88	146	234	293
100%	3	7	10	13	16	33	65	98	163	260	326

Table 0-808: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	6	9	12	15	31	62	92	154	246	308
20%	6	12	18	25	31	62	123	185	308	492	615
30%	9	18	28	37	46	92	185	277	462	738	923
40%	12	25	37	49	62	123	246	369	615	985	1231
50%	15	31	46	62	77	154	308	462	769	1231	1539
60%	18	37	55	74	92	185	369	554	923	1477	1846
70%	22	43	65	86	108	215	431	646	1077	1723	2154
80%	25	49	74	98	123	246	492	738	1231	1969	2462
90%	28	55	83	111	138	277	554	831	1385	2215	2769
100%	31	62	92	123	154	308	615	923	1539	2462	3077

Table 0-809: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	8	10	19	38	57	95	152	190
20%	4	8	11	15	19	38	76	114	190	305	381
30%	6	11	17	23	29	57	114	171	286	457	571
40%	8	15	23	30	38	76	152	228	381	609	762
50%	10	19	29	38	48	95	190	286	476	762	952
60%	11	23	34	46	57	114	228	343	571	914	1142
70%	13	27	40	53	67	133	267	400	666	1066	1333
80%	15	30	46	61	76	152	305	457	762	1219	1523
90%	17	34	51	69	86	171	343	514	857	1371	1714
100%	19	38	57	76	95	190	381	571	952	1523	1904

Table 0-810: Potential displacement (down) and mortality (across) for razorbill in SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	4	9	18	27	45	72	90
20%	2	4	5	7	9	18	36	54	90	143	179
30%	3	5	8	11	13	27	54	81	134	215	269
40%	4	7	11	14	18	36	72	108	179	287	358
50%	4	9	13	18	22	45	90	134	224	358	448
60%	5	11	16	22	27	54	108	161	269	430	538
70%	6	13	19	25	31	63	125	188	314	502	627
80%	7	14	22	29	36	72	143	215	358	573	717
90%	8	16	24	32	40	81	161	242	403	645	806
100%	9	18	27	36	45	90	179	269	448	717	896

11.1.8.10 Razorbill: SEP and DEP Combined

Table 0-811: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	4	6	8	9	19	38	57	94	151	189
20%	4	8	11	15	19	38	76	113	189	302	378
30%	6	11	17	23	28	57	113	170	283	453	567
40%	8	15	23	30	38	76	151	227	378	605	756
50%	9	19	28	38	47	94	189	283	472	756	945
60%	11	23	34	45	57	113	227	340	567	907	1134
70%	13	26	40	53	66	132	265	397	661	1058	1323
80%	15	30	45	60	76	151	302	453	756	1209	1512
90%	17	34	51	68	85	170	340	510	850	1360	1701
100%	19	38	57	76	94	189	378	567	945	1512	1890

Table 0-812: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	4	5	6	12	25	37	62	99	124
20%	2	5	7	10	12	25	50	74	124	198	248
30%	4	7	11	15	19	37	74	111	186	297	372
40%	5	10	15	20	25	50	99	149	248	396	495
50%	6	12	19	25	31	62	124	186	310	495	619
60%	7	15	22	30	37	74	149	223	372	594	743
70%	9	17	26	35	43	87	173	260	433	694	867
80%	10	20	30	40	50	99	198	297	495	793	991
90%	11	22	33	45	56	111	223	334	557	892	1115
100%	12	25	37	50	62	124	248	372	619	991	1239

Table 0-813: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	14	22	36	58	72
20%	1	3	4	6	7	14	29	43	72	116	145
30%	2	4	7	9	11	22	43	65	109	174	217
40%	3	6	9	12	14	29	58	87	145	232	290
50%	4	7	11	14	18	36	72	109	181	290	362
60%	4	9	13	17	22	43	87	130	217	348	434
70%	5	10	15	20	25	51	101	152	253	405	507
80%	6	12	17	23	29	58	116	174	290	463	579
90%	7	13	20	26	33	65	130	195	326	521	652
100%	7	14	22	29	36	72	145	217	362	579	724

Table 0-814: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	10	12	25	49	74	123	197	246
20%	5	10	15	20	25	49	98	148	246	394	492
30%	7	15	22	30	37	74	148	221	369	590	738
40%	10	20	30	39	49	98	197	295	492	787	984
50%	12	25	37	49	62	123	246	369	615	984	1230
60%	15	30	44	59	74	148	295	443	738	1181	1476
70%	17	34	52	69	86	172	344	517	861	1378	1722
80%	20	39	59	79	98	197	394	590	984	1574	1968
90%	22	44	66	89	111	221	443	664	1107	1771	2214
100%	25	49	74	98	123	246	492	738	1230	1968	2460

Table 0-815: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	3	5	6	8	15	31	46	77	122	153
20%	3	6	9	12	15	31	61	92	153	245	306
30%	5	9	14	18	23	46	92	138	230	367	459
40%	6	12	18	24	31	61	122	184	306	490	612
50%	8	15	23	31	38	77	153	230	383	612	765
60%	9	18	28	37	46	92	184	275	459	735	918
70%	11	21	32	43	54	107	214	321	536	857	1071
80%	12	24	37	49	61	122	245	367	612	980	1224
90%	14	28	41	55	69	138	275	413	689	1102	1377
100%	15	31	46	61	77	153	306	459	765	1224	1531

Table 0-816: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	16	24	39	63	79
20%	2	3	5	6	8	16	32	47	79	126	158
30%	2	5	7	9	12	24	47	71	118	189	237
40%	3	6	9	13	16	32	63	95	158	252	315
50%	4	8	12	16	20	39	79	118	197	315	394
60%	5	9	14	19	24	47	95	142	237	378	473
70%	6	11	17	22	28	55	110	166	276	442	552
80%	6	13	19	25	32	63	126	189	315	505	631
90%	7	14	21	28	35	71	142	213	355	568	710
100%	8	16	24	32	39	79	158	237	394	631	789

Table 0-817: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	19	29	48	76	95
20%	2	4	6	8	10	19	38	57	95	152	190
30%	3	6	9	11	14	29	57	86	143	228	285
40%	4	8	11	15	19	38	76	114	190	304	380
50%	5	10	14	19	24	48	95	143	238	380	476
60%	6	11	17	23	29	57	114	171	285	456	571
70%	7	13	20	27	33	67	133	200	333	533	666
80%	8	15	23	30	38	76	152	228	380	609	761
90%	9	17	26	34	43	86	171	257	428	685	856
100%	10	19	29	38	48	95	190	285	476	761	951

Table 0-818: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	23	37	46
20%	1	2	3	4	5	9	19	28	46	74	93
30%	1	3	4	6	7	14	28	42	70	111	139
40%	2	4	6	7	9	19	37	56	93	148	186
50%	2	5	7	9	12	23	46	70	116	186	232
60%	3	6	8	11	14	28	56	84	139	223	278
70%	3	6	10	13	16	32	65	97	162	260	325
80%	4	7	11	15	19	37	74	111	186	297	371
90%	4	8	13	17	21	42	84	125	209	334	418
100%	5	9	14	19	23	46	93	139	232	371	464

Table 0-819: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	6	9	11
20%	0	0	1	1	1	2	4	7	11	18	22
30%	0	1	1	1	2	3	7	10	17	26	33
40%	0	1	1	2	2	4	9	13	22	35	44
50%	1	1	2	2	3	6	11	17	28	44	55
60%	1	1	2	3	3	7	13	20	33	53	66
70%	1	2	2	3	4	8	15	23	39	62	77
80%	1	2	3	4	4	9	18	26	44	70	88
90%	1	2	3	4	5	10	20	30	50	79	99
100%	1	2	3	4	6	11	22	33	55	88	110

Table 0-820: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	8	16	24	32	41	81	162	243	405	648	810
20%	16	32	49	65	81	162	324	486	810	1296	1620
30%	24	49	73	97	122	243	486	729	1215	1944	2430
40%	32	65	97	130	162	324	648	972	1620	2592	3240
50%	41	81	122	162	203	405	810	1215	2025	3240	4051
60%	49	97	146	194	243	486	972	1458	2430	3888	4861
70%	57	113	170	227	284	567	1134	1701	2835	4537	5671
80%	65	130	194	259	324	648	1296	1944	3240	5185	6481
90%	73	146	219	292	365	729	1458	2187	3645	5833	7291
100%	81	162	243	324	405	810	1620	2430	4051	6481	8101

Table 0-821: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	5	9	14	18	23	45	90	135	225	360	450
20%	9	18	27	36	45	90	180	270	450	720	900
30%	14	27	41	54	68	135	270	405	675	1080	1350
40%	18	36	54	72	90	180	360	540	900	1440	1800
50%	23	45	68	90	113	225	450	675	1125	1800	2250
60%	27	54	81	108	135	270	540	810	1350	2160	2700
70%	32	63	95	126	158	315	630	945	1575	2520	3150
80%	36	72	108	144	180	360	720	1080	1800	2880	3600
90%	41	81	122	162	203	405	810	1215	2025	3240	4050
100%	45	90	135	180	225	450	900	1350	2250	3600	4500

Table 0-822: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	3	5	6	8	16	32	48	80	127	159
20%	3	6	10	13	16	32	64	95	159	255	318
30%	5	10	14	19	24	48	95	143	239	382	477
40%	6	13	19	25	32	64	127	191	318	509	636
50%	8	16	24	32	40	80	159	239	398	636	796
60%	10	19	29	38	48	95	191	286	477	764	955
70%	11	22	33	45	56	111	223	334	557	891	1114
80%	13	25	38	51	64	127	255	382	636	1018	1273
90%	14	29	43	57	72	143	286	430	716	1146	1432
100%	16	32	48	64	80	159	318	477	796	1273	1591

Table 0-823: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	13	27	40	54	67	134	268	402	670	1072	1340
20%	27	54	80	107	134	268	536	804	1340	2144	2680
30%	40	80	121	161	201	402	804	1206	2010	3216	4020
40%	54	107	161	214	268	536	1072	1608	2680	4288	5361
50%	67	134	201	268	335	670	1340	2010	3350	5361	6701
60%	80	161	241	322	402	804	1608	2412	4020	6433	8041
70%	94	188	281	375	469	938	1876	2814	4691	7505	9381
80%	107	214	322	429	536	1072	2144	3216	5361	8577	10721
90%	121	241	362	482	603	1206	2412	3618	6031	9649	12061
100%	134	268	402	536	670	1340	2680	4020	6701	10721	13402

Table 0-824: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	8	15	23	31	39	77	155	232	387	619	773
20%	15	31	46	62	77	155	309	464	773	1237	1547
30%	23	46	70	93	116	232	464	696	1160	1856	2320
40%	31	62	93	124	155	309	619	928	1547	2475	3093
50%	39	77	116	155	193	387	773	1160	1933	3093	3867
60%	46	93	139	186	232	464	928	1392	2320	3712	4640
70%	54	108	162	217	271	541	1083	1624	2707	4330	5413
80%	62	124	186	247	309	619	1237	1856	3093	4949	6186
90%	70	139	209	278	348	696	1392	2088	3480	5568	6960
100%	77	155	232	309	387	773	1547	2320	3867	6186	7733

Table 0-825: Potential displacement (down) and mortality (across) for razorbill in DEP+2km buffer and SEP+2km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	3	6	10	13	16	32	64	96	161	257	321
20%	6	13	19	26	32	64	129	193	321	514	643
30%	10	19	29	39	48	96	193	289	482	771	964
40%	13	26	39	51	64	129	257	386	643	1028	1285
50%	16	32	48	64	80	161	321	482	803	1285	1607
60%	19	39	58	77	96	193	386	578	964	1542	1928
70%	22	45	67	90	112	225	450	675	1125	1800	2249
80%	26	51	77	103	129	257	514	771	1285	2057	2571
90%	29	58	87	116	145	289	578	868	1446	2314	2892
100%	32	64	96	129	161	321	643	964	1607	2571	3214

11.1.8.11 Red-throated diver: DEP

Table 0-826: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	9	12
30%	0	0	1	1	1	2	4	5	9	14	18
40%	0	0	1	1	1	2	5	7	12	19	24
50%	0	1	1	1	1	3	6	9	15	24	30
60%	0	1	1	1	2	4	7	11	18	28	35
70%	0	1	1	2	2	4	8	12	21	33	41
80%	0	1	1	2	2	5	9	14	24	38	47
90%	1	1	2	2	3	5	11	16	27	42	53
100%	1	1	2	2	3	6	12	18	30	47	59

Table 0-827: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	15	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	20	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	31

Table 0-828: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during autumn migration season, using lower 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	4	5
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	3	5	7
100%	0	0	0	0	0	1	2	2	4	6	8

Table 0-829: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-830: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	2	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-831: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-832: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	11	18	23
40%	0	1	1	1	2	3	6	9	15	24	30
50%	0	1	1	2	2	4	8	11	19	30	38
60%	0	1	1	2	2	5	9	14	23	36	46
70%	1	1	2	2	3	5	11	16	27	43	53
80%	1	1	2	2	3	6	12	18	30	49	61
90%	1	1	2	3	3	7	14	21	34	55	68
100%	1	2	2	3	4	8	15	23	38	61	76

Table 0-833: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	9	11
30%	0	0	0	1	1	2	3	5	8	13	16
40%	0	0	1	1	1	2	4	6	11	17	22
50%	0	1	1	1	1	3	5	8	14	22	27
60%	0	1	1	1	2	3	6	10	16	26	32
70%	0	1	1	2	2	4	8	11	19	30	38
80%	0	1	1	2	2	4	9	13	22	35	43
90%	0	1	1	2	2	5	10	15	24	39	49
100%	1	1	2	2	3	5	11	16	27	43	54

Table 0-834: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer during spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	0	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	11	18	23
80%	0	1	1	1	1	3	5	8	13	21	26
90%	0	1	1	1	1	3	6	9	15	23	29
100%	0	1	1	1	2	3	7	10	16	26	33

Table 0-835: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	12	15
20%	0	1	1	1	2	3	6	9	15	24	30
30%	0	1	1	2	2	5	9	14	23	36	45
40%	1	1	2	2	3	6	12	18	30	48	60
50%	1	2	2	3	4	8	15	23	38	60	75
60%	1	2	3	4	5	9	18	27	45	72	90
70%	1	2	3	4	5	11	21	32	53	84	105
80%	1	2	4	5	6	12	24	36	60	96	120
90%	1	3	4	5	7	14	27	41	68	108	135
100%	2	3	5	6	8	15	30	45	75	120	150

Table 0-836: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	7	9
20%	0	0	1	1	1	2	4	5	9	14	18
30%	0	1	1	1	1	3	5	8	14	22	27
40%	0	1	1	1	2	4	7	11	18	29	36
50%	0	1	1	2	2	5	9	14	23	36	45
60%	1	1	2	2	3	5	11	16	27	43	54
70%	1	1	2	3	3	6	13	19	32	50	63
80%	1	1	2	3	4	7	14	22	36	58	72
90%	1	2	2	3	4	8	16	24	41	65	81
100%	1	2	3	4	5	9	18	27	45	72	90

Table 0-837: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	20
60%	0	0	1	1	1	2	5	7	12	19	24
70%	0	1	1	1	1	3	6	8	14	22	28
80%	0	1	1	1	2	3	6	10	16	26	32
90%	0	1	1	1	2	4	7	11	18	29	36
100%	0	1	1	2	2	4	8	12	20	32	40

11.1.8.12 Red-throated diver: SEP

Table 0-838: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	5	8	14	22	27
30%	0	1	1	2	2	4	8	12	20	33	41
40%	1	1	2	2	3	5	11	16	27	44	55
50%	1	1	2	3	3	7	14	20	34	55	68
60%	1	2	2	3	4	8	16	25	41	66	82
70%	1	2	3	4	5	10	19	29	48	76	96
80%	1	2	3	4	5	11	22	33	55	87	109
90%	1	2	4	5	6	12	25	37	61	98	123
100%	1	3	4	5	7	14	27	41	68	109	137

Table 0-839: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	11	18	23
40%	0	1	1	1	2	3	6	9	15	24	30
50%	0	1	1	2	2	4	8	11	19	30	38
60%	0	1	1	2	2	5	9	14	23	36	45
70%	1	1	2	2	3	5	11	16	26	42	53
80%	1	1	2	2	3	6	12	18	30	48	60
90%	1	1	2	3	3	7	14	20	34	54	68
100%	1	2	2	3	4	8	15	23	38	60	75

Table 0-840: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during autumn migration season, using lower 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	4	6	9	12
50%	0	0	0	1	1	1	3	4	7	12	15
60%	0	0	1	1	1	2	4	5	9	14	18
70%	0	0	1	1	1	2	4	6	10	17	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	13	21	27
100%	0	1	1	1	1	3	6	9	15	24	30

Table 0-841: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	8	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-842: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	2	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-843: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-844: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	23	37	46
20%	1	2	3	4	5	9	19	28	46	74	93
30%	1	3	4	6	7	14	28	42	69	111	139
40%	2	4	6	7	9	19	37	56	93	148	185
50%	2	5	7	9	12	23	46	69	116	185	232
60%	3	6	8	11	14	28	56	83	139	222	278
70%	3	6	10	13	16	32	65	97	162	259	324
80%	4	7	11	15	19	37	74	111	185	296	370
90%	4	8	13	17	21	42	83	125	208	333	417
100%	5	9	14	19	23	46	93	139	232	370	463

Table 0-845: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	15	19
20%	0	1	1	2	2	4	8	11	19	31	38
30%	1	1	2	2	3	6	11	17	29	46	57
40%	1	2	2	3	4	8	15	23	38	61	76
50%	1	2	3	4	5	10	19	29	48	76	96
60%	1	2	3	5	6	11	23	34	57	92	115
70%	1	3	4	5	7	13	27	40	67	107	134
80%	2	3	5	6	8	15	31	46	76	122	153
90%	2	3	5	7	9	17	34	52	86	138	172
100%	2	4	6	8	10	19	38	57	96	153	191

Table 0-846: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer during spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	3	6	9	12
50%	0	0	0	1	1	1	3	4	7	12	15
60%	0	0	1	1	1	2	3	5	9	14	17
70%	0	0	1	1	1	2	4	6	10	16	20
80%	0	0	1	1	1	2	5	7	12	19	23
90%	0	1	1	1	1	3	5	8	13	21	26
100%	0	1	1	1	1	3	6	9	15	23	29

Table 0-847: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	18	31	49	61
20%	1	2	4	5	6	12	25	37	61	98	123
30%	2	4	6	7	9	18	37	55	92	147	184
40%	2	5	7	10	12	25	49	74	123	197	246
50%	3	6	9	12	15	31	61	92	154	246	307
60%	4	7	11	15	18	37	74	111	184	295	369
70%	4	9	13	17	22	43	86	129	215	344	430
80%	5	10	15	20	25	49	98	147	246	393	492
90%	6	11	17	22	28	55	111	166	277	442	553
100%	6	12	18	25	31	61	123	184	307	492	615

Table 0-848: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	14	22	27
20%	1	1	2	2	3	5	11	16	27	43	54
30%	1	2	2	3	4	8	16	24	41	65	81
40%	1	2	3	4	5	11	22	33	54	87	108
50%	1	3	4	5	7	14	27	41	68	108	136
60%	2	3	5	7	8	16	33	49	81	130	163
70%	2	4	6	8	9	19	38	57	95	152	190
80%	2	4	7	9	11	22	43	65	108	173	217
90%	2	5	7	10	12	24	49	73	122	195	244
100%	3	5	8	11	14	27	54	81	136	217	271

Table 0-849: Potential displacement (down) and mortality (across) for red-throated diver in SEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	9	12
30%	0	0	1	1	1	2	4	5	9	14	18
40%	0	0	1	1	1	2	5	7	12	19	23
50%	0	1	1	1	1	3	6	9	15	23	29
60%	0	1	1	1	2	4	7	11	18	28	35
70%	0	1	1	2	2	4	8	12	20	33	41
80%	0	1	1	2	2	5	9	14	23	37	47
90%	1	1	2	2	3	5	11	16	26	42	53
100%	1	1	2	2	3	6	12	18	29	47	59

11.1.8.13 Red-throated diver: SEP and DEP Combined

Table 0-850: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during autumn migration season, using upper 95% CI mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	31	39
30%	1	1	2	2	3	6	12	18	29	47	59
40%	1	2	2	3	4	8	16	23	39	63	78
50%	1	2	3	4	5	10	20	29	49	78	98
60%	1	2	4	5	6	12	23	35	59	94	117
70%	1	3	4	5	7	14	27	41	68	109	137
80%	2	3	5	6	8	16	31	47	78	125	156
90%	2	4	5	7	9	18	35	53	88	141	176
100%	2	4	6	8	10	20	39	59	98	156	196

Table 0-851: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	11
20%	0	0	1	1	1	2	4	6	11	17	21
30%	0	1	1	1	2	3	6	9	16	25	32
40%	0	1	1	2	2	4	8	13	21	34	42
50%	1	1	2	2	3	5	11	16	26	42	53
60%	1	1	2	3	3	6	13	19	32	51	63
70%	1	1	2	3	4	7	15	22	37	59	74
80%	1	2	3	3	4	8	17	25	42	68	84
90%	1	2	3	4	5	9	19	28	47	76	95
100%	1	2	3	4	5	11	21	32	53	84	106

Table 0-852: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	1	2	4	6	7
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	1	3	4	7	12	15
50%	0	0	1	1	1	2	4	6	9	15	19
60%	0	0	1	1	1	2	4	7	11	18	22
70%	0	1	1	1	1	3	5	8	13	21	26
80%	0	1	1	1	1	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	33
100%	0	1	1	1	2	4	7	11	19	30	37

Table 0-853: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	15	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	30

Table 0-854: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	5	7	9
100%	0	0	0	0	1	1	2	3	5	8	10

Table 0-855: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the winter season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-856: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	11	16	27	43	54
20%	1	2	3	4	5	11	22	32	54	86	108
30%	2	3	5	6	8	16	32	49	81	129	162
40%	2	4	6	9	11	22	43	65	108	172	216
50%	3	5	8	11	13	27	54	81	135	216	270
60%	3	6	10	13	16	32	65	97	162	259	323
70%	4	8	11	15	19	38	75	113	189	302	377
80%	4	9	13	17	22	43	86	129	216	345	431
90%	5	10	15	19	24	49	97	146	243	388	485
100%	5	11	16	22	27	54	108	162	270	431	539

Table 0-857: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	20	25
20%	0	1	1	2	2	5	10	15	25	39	49
30%	1	1	2	3	4	7	15	22	37	59	74
40%	1	2	3	4	5	10	20	29	49	78	98
50%	1	2	4	5	6	12	25	37	61	98	123
60%	1	3	4	6	7	15	29	44	74	118	147
70%	2	3	5	7	9	17	34	51	86	137	172
80%	2	4	6	8	10	20	39	59	98	157	196
90%	2	4	7	9	11	22	44	66	110	176	221
100%	2	5	7	10	12	25	49	74	123	196	245

Table 0-858: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer during the spring migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	6	9	15	18
40%	0	0	1	1	1	2	5	7	12	20	25
50%	0	1	1	1	2	3	6	9	15	25	31
60%	0	1	1	1	2	4	7	11	18	30	37
70%	0	1	1	2	2	4	9	13	22	34	43
80%	0	1	1	2	2	5	10	15	25	39	49
90%	1	1	2	2	3	6	11	17	28	44	55
100%	1	1	2	2	3	6	12	18	31	49	62

Table 0-859: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	15	23	38	61	76
20%	2	3	5	6	8	15	31	46	76	122	153
30%	2	5	7	9	11	23	46	69	115	184	229
40%	3	6	9	12	15	31	61	92	153	245	306
50%	4	8	11	15	19	38	76	115	191	306	382
60%	5	9	14	18	23	46	92	138	229	367	459
70%	5	11	16	21	27	54	107	161	268	428	535
80%	6	12	18	24	31	61	122	184	306	489	612
90%	7	14	21	28	34	69	138	206	344	551	688
100%	8	15	23	31	38	76	153	229	382	612	765

Table 0-860: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	4	7	11	18	29	36
20%	1	1	2	3	4	7	14	22	36	58	72
30%	1	2	3	4	5	11	22	32	54	87	108
40%	1	3	4	6	7	14	29	43	72	115	144
50%	2	4	5	7	9	18	36	54	90	144	180
60%	2	4	6	9	11	22	43	65	108	173	216
70%	3	5	8	10	13	25	50	76	126	202	252
80%	3	6	9	12	14	29	58	87	144	231	288
90%	3	6	10	13	16	32	65	97	162	260	324
100%	4	7	11	14	18	36	72	108	180	288	361

Table 0-861: Potential displacement (down) and mortality (across) for red-throated diver in DEP+4km buffer and SEP+4km buffer year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	1	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	39
50%	0	1	1	2	2	5	10	15	25	39	49
60%	1	1	2	2	3	6	12	18	30	47	59
70%	1	1	2	3	3	7	14	21	34	55	69
80%	1	2	2	3	4	8	16	24	39	63	79
90%	1	2	3	4	4	9	18	27	44	71	89
100%	1	2	3	4	5	10	20	30	49	79	99

11.1.8.14 Sandwich tern: DEP (design-based density estimates)

Table 0-862: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	2	3	5	8	12	15
50%	0	0	1	1	1	2	4	6	10	15	19
60%	0	0	1	1	1	2	5	7	11	18	23
70%	0	1	1	1	1	3	5	8	13	21	27
80%	0	1	1	1	2	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	34
100%	0	1	1	2	2	4	8	11	19	30	38

Table 0-863: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-864: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-865: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	12	20	31	39
20%	1	2	2	3	4	8	16	23	39	63	78
30%	1	2	4	5	6	12	23	35	59	94	117
40%	2	3	5	6	8	16	31	47	78	125	156
50%	2	4	6	8	10	20	39	59	98	156	196
60%	2	5	7	9	12	23	47	70	117	188	235
70%	3	5	8	11	14	27	55	82	137	219	274
80%	3	6	9	13	16	31	63	94	156	250	313
90%	4	7	11	14	18	35	70	106	176	282	352
100%	4	8	12	16	20	39	78	117	196	313	391

Table 0-866: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	61
40%	1	2	2	3	4	8	16	24	40	65	81
50%	1	2	3	4	5	10	20	30	51	81	101
60%	1	2	4	5	6	12	24	36	61	97	121
70%	1	3	4	6	7	14	28	42	71	113	141
80%	2	3	5	6	8	16	32	48	81	129	162
90%	2	4	5	7	9	18	36	55	91	145	182
100%	2	4	6	8	10	20	40	61	101	162	202

Table 0-867: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	9	16	25	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	9	14	24	38	47
70%	1	1	2	2	3	6	11	17	28	44	55
80%	1	1	2	3	3	6	13	19	32	51	63
90%	1	1	2	3	4	7	14	21	36	57	71
100%	1	2	2	3	4	8	16	24	40	63	79

Table 0-868: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	21	34	43
20%	1	2	3	3	4	9	17	26	43	69	86
30%	1	3	4	5	6	13	26	39	64	103	129
40%	2	3	5	7	9	17	34	51	86	137	172
50%	2	4	6	9	11	21	43	64	107	172	215
60%	3	5	8	10	13	26	51	77	129	206	257
70%	3	6	9	12	15	30	60	90	150	240	300
80%	3	7	10	14	17	34	69	103	172	275	343
90%	4	8	12	15	19	39	77	116	193	309	386
100%	4	9	13	17	21	43	86	129	215	343	429

Table 0-869: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	11	17	22
20%	0	1	1	2	2	4	9	13	22	35	43
30%	1	1	2	3	3	6	13	19	32	52	65
40%	1	2	3	3	4	9	17	26	43	69	86
50%	1	2	3	4	5	11	22	32	54	86	108
60%	1	3	4	5	6	13	26	39	65	104	130
70%	2	3	5	6	8	15	30	45	76	121	151
80%	2	3	5	7	9	17	35	52	86	138	173
90%	2	4	6	8	10	19	39	58	97	156	194
100%	2	4	6	9	11	22	43	65	108	173	216

Table 0-870: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	9	16	25	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	9	14	24	38	47
70%	1	1	2	2	3	6	11	17	28	44	55
80%	1	1	2	3	3	6	13	19	32	51	63
90%	1	1	2	3	4	7	14	21	36	57	71
100%	1	2	2	3	4	8	16	24	40	63	79

11.1.8.15 Sandwich tern: SEP (design-based density estimates)

Table 0-871: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	4	6
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	4	6	7
100%	0	0	0	0	0	1	2	2	4	6	8

Table 0-872: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	2	3

Table 0-873: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-874: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	6	10	13
20%	0	1	1	1	1	3	5	8	13	20	25
30%	0	1	1	2	2	4	8	11	19	30	38
40%	1	1	2	2	3	5	10	15	25	41	51
50%	1	1	2	3	3	6	13	19	32	51	64
60%	1	2	2	3	4	8	15	23	38	61	76
70%	1	2	3	4	4	9	18	27	44	71	89
80%	1	2	3	4	5	10	20	30	51	81	102
90%	1	2	3	5	6	11	23	34	57	91	114
100%	1	3	4	5	6	13	25	38	64	102	127

Table 0-875: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	4	6	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	11	17	21
40%	0	1	1	1	1	3	6	9	14	23	28
50%	0	1	1	1	2	4	7	11	18	28	36
60%	0	1	1	2	2	4	9	13	21	34	43
70%	0	1	1	2	2	5	10	15	25	40	50
80%	1	1	2	2	3	6	11	17	28	45	57
90%	1	1	2	3	3	6	13	19	32	51	64
100%	1	1	2	3	4	7	14	21	36	57	71

Table 0-876: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	3	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	11
60%	0	0	0	1	1	1	3	4	6	10	13
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	1	1	1	2	3	5	8	13	17
90%	0	0	1	1	1	2	4	6	9	15	19
100%	0	0	1	1	1	2	4	6	11	17	21

Table 0-877: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	5	8	14	22	27
30%	0	1	1	2	2	4	8	12	20	32	41
40%	1	1	2	2	3	5	11	16	27	43	54
50%	1	1	2	3	3	7	14	20	34	54	68
60%	1	2	2	3	4	8	16	24	41	65	81
70%	1	2	3	4	5	9	19	28	47	76	95
80%	1	2	3	4	5	11	22	32	54	86	108
90%	1	2	4	5	6	12	24	36	61	97	122
100%	1	3	4	5	7	14	27	41	68	108	135

Table 0-878: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	4	6	7
20%	0	0	0	1	1	1	3	4	7	12	15
30%	0	0	1	1	1	2	4	7	11	18	22
40%	0	1	1	1	1	3	6	9	15	24	30
50%	0	1	1	1	2	4	7	11	19	30	37
60%	0	1	1	2	2	4	9	13	22	36	44
70%	1	1	2	2	3	5	10	16	26	41	52
80%	1	1	2	2	3	6	12	18	30	47	59
90%	1	1	2	3	3	7	13	20	33	53	67
100%	1	1	2	3	4	7	15	22	37	59	74

Table 0-879: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	3	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	11
60%	0	0	0	1	1	1	3	4	6	10	13
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	1	1	1	2	3	5	8	13	17
90%	0	0	1	1	1	2	4	6	9	15	19
100%	0	0	1	1	1	2	4	6	11	17	21

11.1.8.16 Sandwich tern: SEP and DEP Combined (design-based density estimates)

Table 0-880: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	7	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	6	9	15	18
50%	0	0	1	1	1	2	5	7	12	18	23
60%	0	1	1	1	1	3	6	8	14	22	28
70%	0	1	1	1	2	3	6	10	16	26	32
80%	0	1	1	1	2	4	7	11	18	29	37
90%	0	1	1	2	2	4	8	12	21	33	41
100%	0	1	1	2	2	5	9	14	23	37	46

Table 0-881: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	5	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	15
100%	0	0	1	1	1	2	3	5	9	14	17

Table 0-882: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-883: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	10	16	26	41	52
20%	1	2	3	4	5	10	21	31	52	83	104
30%	2	3	5	6	8	16	31	47	78	124	155
40%	2	4	6	8	10	21	41	62	104	166	207
50%	3	5	8	10	13	26	52	78	130	207	259
60%	3	6	9	12	16	31	62	93	155	249	311
70%	4	7	11	15	18	36	73	109	181	290	363
80%	4	8	12	17	21	41	83	124	207	332	414
90%	5	9	14	19	23	47	93	140	233	373	466
100%	5	10	16	21	26	52	104	155	259	414	518

Table 0-884: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	14	22	27
20%	1	1	2	2	3	5	11	16	27	44	55
30%	1	2	2	3	4	8	16	25	41	66	82
40%	1	2	3	4	5	11	22	33	55	87	109
50%	1	3	4	5	7	14	27	41	68	109	137
60%	2	3	5	7	8	16	33	49	82	131	164
70%	2	4	6	8	10	19	38	57	96	153	191
80%	2	4	7	9	11	22	44	66	109	175	218
90%	2	5	7	10	12	25	49	74	123	197	246
100%	3	5	8	11	14	27	55	82	137	218	273

Table 0-885: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	40
50%	1	1	2	2	3	5	10	15	25	40	50
60%	1	1	2	2	3	6	12	18	30	48	60
70%	1	1	2	3	4	7	14	21	35	56	70
80%	1	2	2	3	4	8	16	24	40	64	80
90%	1	2	3	4	5	9	18	27	45	72	90
100%	1	2	3	4	5	10	20	30	50	80	100

Table 0-886: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	45	56
20%	1	2	3	5	6	11	23	34	56	90	113
30%	2	3	5	7	8	17	34	51	85	135	169
40%	2	5	7	9	11	23	45	68	113	180	226
50%	3	6	8	11	14	28	56	85	141	226	282
60%	3	7	10	14	17	34	68	102	169	271	338
70%	4	8	12	16	20	39	79	118	197	316	395
80%	5	9	14	18	23	45	90	135	226	361	451
90%	5	10	15	20	25	51	102	152	254	406	508
100%	6	11	17	23	28	56	113	169	282	451	564

Table 0-887: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	15	23	29
20%	1	1	2	2	3	6	12	17	29	46	58
30%	1	2	3	3	4	9	17	26	44	70	87
40%	1	2	3	5	6	12	23	35	58	93	116
50%	1	3	4	6	7	15	29	44	73	116	145
60%	2	3	5	7	9	17	35	52	87	139	174
70%	2	4	6	8	10	20	41	61	102	162	203
80%	2	5	7	9	12	23	46	70	116	186	232
90%	3	5	8	10	13	26	52	78	131	209	261
100%	3	6	9	12	15	29	58	87	145	232	290

Table 0-888: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	40
50%	1	1	2	2	3	5	10	15	25	40	50
60%	1	1	2	2	3	6	12	18	30	48	60
70%	1	1	2	3	4	7	14	21	35	56	70
80%	1	2	2	3	4	8	16	24	40	64	80
90%	1	2	3	4	5	9	18	27	45	72	90
100%	1	2	3	4	5	10	20	30	50	80	100

11.1.8.17 Sandwich tern: DEP (model-based density estimates)

Table 0-889: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	7	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	17
50%	0	0	1	1	1	2	4	6	10	17	21
60%	0	0	1	1	1	2	5	7	12	20	25
70%	0	1	1	1	1	3	6	9	14	23	29
80%	0	1	1	1	2	3	7	10	17	26	33
90%	0	1	1	1	2	4	7	11	19	30	37
100%	0	1	1	2	2	4	8	12	21	33	41

Table 0-890: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	16
100%	0	0	1	1	1	2	3	5	9	14	17

Table 0-891: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-892: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	16	26	33
20%	1	1	2	3	3	7	13	20	33	52	65
30%	1	2	3	4	5	10	20	29	49	78	98
40%	1	3	4	5	7	13	26	39	65	105	131
50%	2	3	5	7	8	16	33	49	82	131	164
60%	2	4	6	8	10	20	39	59	98	157	196
70%	2	5	7	9	11	23	46	69	114	183	229
80%	3	5	8	10	13	26	52	78	131	209	262
90%	3	6	9	12	15	29	59	88	147	235	294
100%	3	7	10	13	16	33	65	98	164	262	327

Table 0-893: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	61
40%	1	2	2	3	4	8	16	24	40	65	81
50%	1	2	3	4	5	10	20	30	50	81	101
60%	1	2	4	5	6	12	24	36	61	97	121
70%	1	3	4	6	7	14	28	42	71	113	141
80%	2	3	5	6	8	16	32	48	81	129	162
90%	2	4	5	7	9	18	36	55	91	145	182
100%	2	4	6	8	10	20	40	61	101	162	202

Table 0-894: Potential displacement (down) and mortality (across) for Sandwich tern in DEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	20	24
30%	0	1	1	1	2	4	7	11	18	29	37
40%	0	1	1	2	2	5	10	15	24	39	49
50%	1	1	2	2	3	6	12	18	30	49	61
60%	1	1	2	3	4	7	15	22	37	59	73
70%	1	2	3	3	4	9	17	26	43	68	85
80%	1	2	3	4	5	10	20	29	49	78	98
90%	1	2	3	4	5	11	22	33	55	88	110
100%	1	2	4	5	6	12	24	37	61	98	122

Table 0-895: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	4	7	11	18	29	37
20%	1	1	2	3	4	7	15	22	37	59	74
30%	1	2	3	4	6	11	22	33	55	88	110
40%	1	3	4	6	7	15	29	44	74	118	147
50%	2	4	6	7	9	18	37	55	92	147	184
60%	2	4	7	9	11	22	44	66	110	177	221
70%	3	5	8	10	13	26	52	77	129	206	258
80%	3	6	9	12	15	29	59	88	147	236	295
90%	3	7	10	13	17	33	66	99	166	265	331
100%	4	7	11	15	18	37	74	110	184	295	368

Table 0-896: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	7	11	18	22
20%	0	1	1	2	2	4	9	13	22	35	44
30%	1	1	2	3	3	7	13	20	33	53	66
40%	1	2	3	4	4	9	18	26	44	70	88
50%	1	2	3	4	5	11	22	33	55	88	110
60%	1	3	4	5	7	13	26	39	66	105	132
70%	2	3	5	6	8	15	31	46	77	123	153
80%	2	4	5	7	9	18	35	53	88	140	175
90%	2	4	6	8	10	20	39	59	99	158	197
100%	2	4	7	9	11	22	44	66	110	175	219

Table 0-897: Potential displacement (down) and mortality (across) for Sandwich tern in DEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	6	10	13
20%	0	1	1	1	1	3	5	8	13	20	26
30%	0	1	1	2	2	4	8	12	19	31	38
40%	1	1	2	2	3	5	10	15	26	41	51
50%	1	1	2	3	3	6	13	19	32	51	64
60%	1	2	2	3	4	8	15	23	38	61	77
70%	1	2	3	4	4	9	18	27	45	72	90
80%	1	2	3	4	5	10	20	31	51	82	102
90%	1	2	3	5	6	12	23	35	58	92	115
100%	1	3	4	5	6	13	26	38	64	102	128

11.1.8.18 Sandwich tern: SEP (model-based density estimates)

Table 0-898: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	5	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-899: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	1	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-900: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-901: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	15
20%	0	1	1	1	1	3	6	9	15	24	29
30%	0	1	1	2	2	4	9	13	22	35	44
40%	1	1	2	2	3	6	12	18	29	47	59
50%	1	1	2	3	4	7	15	22	37	59	74
60%	1	2	3	4	4	9	18	26	44	71	88
70%	1	2	3	4	5	10	21	31	52	82	103
80%	1	2	4	5	6	12	24	35	59	94	118
90%	1	3	4	5	7	13	26	40	66	106	132
100%	1	3	4	6	7	15	29	44	74	118	147

Table 0-902: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	25	31
40%	0	1	1	2	2	4	8	12	20	33	41
50%	1	1	2	2	3	5	10	15	26	41	51
60%	1	1	2	2	3	6	12	18	31	49	61
70%	1	1	2	3	4	7	14	21	36	57	72
80%	1	2	2	3	4	8	16	25	41	65	82
90%	1	2	3	4	5	9	18	28	46	74	92
100%	1	2	3	4	5	10	20	31	51	82	102

Table 0-903: Potential displacement (down) and mortality (across) for Sandwich tern in SEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	10	16	26	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	10	15	24	39	49
70%	1	1	2	2	3	6	11	17	28	45	57
80%	1	1	2	3	3	6	13	19	32	52	65
90%	1	1	2	3	4	7	15	22	36	58	73
100%	1	2	2	3	4	8	16	24	40	65	81

Table 0-904: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	9	16	25	31
30%	0	1	1	2	2	5	9	14	24	38	47
40%	1	1	2	3	3	6	13	19	31	50	63
50%	1	2	2	3	4	8	16	24	39	63	78
60%	1	2	3	4	5	9	19	28	47	75	94
70%	1	2	3	4	5	11	22	33	55	88	110
80%	1	3	4	5	6	13	25	38	63	100	125
90%	1	3	4	6	7	14	28	42	71	113	141
100%	2	3	5	6	8	16	31	47	78	125	157

Table 0-905: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	11
20%	0	0	1	1	1	2	4	6	11	17	21
30%	0	1	1	1	2	3	6	10	16	25	32
40%	0	1	1	2	2	4	8	13	21	34	42
50%	1	1	2	2	3	5	11	16	26	42	53
60%	1	1	2	3	3	6	13	19	32	51	64
70%	1	1	2	3	4	7	15	22	37	59	74
80%	1	2	3	3	4	8	17	25	42	68	85
90%	1	2	3	4	5	10	19	29	48	76	95
100%	1	2	3	4	5	11	21	32	53	85	106

Table 0-906: Potential displacement (down) and mortality (across) for Sandwich tern in SEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	7	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	20	25
40%	0	1	1	1	2	3	7	10	16	26	33
50%	0	1	1	2	2	4	8	12	20	33	41
60%	0	1	1	2	2	5	10	15	25	39	49
70%	1	1	2	2	3	6	11	17	29	46	57
80%	1	1	2	3	3	7	13	20	33	52	66
90%	1	1	2	3	4	7	15	22	37	59	74
100%	1	2	2	3	4	8	16	25	41	66	82

11.1.8.19 Sandwich tern: SEP and DEP Combined (model-based density estimates)

Table 0-907: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	1	1	1	1	3	5	8	13	20	25
60%	0	1	1	1	2	3	6	9	15	24	30
70%	0	1	1	1	2	4	7	11	18	28	36
80%	0	1	1	2	2	4	8	12	20	33	41
90%	0	1	1	2	2	5	9	14	23	37	46
100%	1	1	2	2	3	5	10	15	25	41	51

Table 0-908: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	10	12
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	0	1	1	2	3	5	8	13	17
90%	0	0	1	1	1	2	4	6	9	15	19
100%	0	0	1	1	1	2	4	6	10	17	21

Table 0-909: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the autumn migration season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	5
80%	0	0	0	0	0	1	1	2	3	4	6
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	4	6	7

Table 0-910: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	24	38	47
20%	1	2	3	4	5	9	19	28	47	76	95
30%	1	3	4	6	7	14	28	43	71	114	142
40%	2	4	6	8	9	19	38	57	95	152	190
50%	2	5	7	9	12	24	47	71	119	190	237
60%	3	6	9	11	14	28	57	85	142	228	285
70%	3	7	10	13	17	33	66	100	166	266	332
80%	4	8	11	15	19	38	76	114	190	304	379
90%	4	9	13	17	21	43	85	128	213	341	427
100%	5	9	14	19	24	47	95	142	237	379	474

Table 0-911: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	15	24	30
20%	1	1	2	2	3	6	12	18	30	49	61
30%	1	2	3	4	5	9	18	27	46	73	91
40%	1	2	4	5	6	12	24	37	61	97	122
50%	2	3	5	6	8	15	30	46	76	122	152
60%	2	4	5	7	9	18	37	55	91	146	183
70%	2	4	6	9	11	21	43	64	106	170	213
80%	2	5	7	10	12	24	49	73	122	195	243
90%	3	5	8	11	14	27	55	82	137	219	274
100%	3	6	9	12	15	30	61	91	152	243	304

Table 0-912: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP during the breeding season, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	41
30%	1	1	2	2	3	6	12	18	30	49	61
40%	1	2	2	3	4	8	16	24	41	65	81
50%	1	2	3	4	5	10	20	30	51	81	101
60%	1	2	4	5	6	12	24	37	61	97	122
70%	1	3	4	6	7	14	28	43	71	114	142
80%	2	3	5	6	8	16	32	49	81	130	162
90%	2	4	5	7	9	18	37	55	91	146	183
100%	2	4	6	8	10	20	41	61	101	162	203

Table 0-913: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using upper 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	11	16	26	42	53
20%	1	2	3	4	5	11	21	32	53	84	105
30%	2	3	5	6	8	16	32	47	79	126	158
40%	2	4	6	8	11	21	42	63	105	168	210
50%	3	5	8	11	13	26	53	79	131	210	263
60%	3	6	9	13	16	32	63	95	158	252	315
70%	4	7	11	15	18	37	74	110	184	294	368
80%	4	8	13	17	21	42	84	126	210	336	420
90%	5	9	14	19	24	47	95	142	236	378	473
100%	5	11	16	21	26	53	105	158	263	420	525

Table 0-914: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	16	26	33
20%	1	1	2	3	3	7	13	20	33	52	65
30%	1	2	3	4	5	10	20	29	49	78	98
40%	1	3	4	5	7	13	26	39	65	104	130
50%	2	3	5	7	8	16	33	49	81	130	163
60%	2	4	6	8	10	20	39	59	98	156	195
70%	2	5	7	9	11	23	46	68	114	182	228
80%	3	5	8	10	13	26	52	78	130	208	260
90%	3	6	9	12	15	29	59	88	146	234	293
100%	3	7	10	13	16	33	65	98	163	260	325

Table 0-915: Potential displacement (down) and mortality (across) for Sandwich tern in DEP and SEP year round, using lower 95% CI of mean peak density.

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	17	21
20%	0	1	1	2	2	4	8	13	21	34	42
30%	1	1	2	3	3	6	13	19	31	50	63
40%	1	2	3	3	4	8	17	25	42	67	84
50%	1	2	3	4	5	10	21	31	52	84	105
60%	1	3	4	5	6	13	25	38	63	101	126
70%	1	3	4	6	7	15	29	44	73	118	147
80%	2	3	5	7	8	17	34	50	84	134	168
90%	2	4	6	8	9	19	38	57	94	151	189
100%	2	4	6	8	10	21	42	63	105	168	210

11.1.9 ANNEX 5: Displacement Assessment Matrices: Project Alone, HRA

Shaded cells denote displacement and mortality rates recommended for use in assessment by Natural England with exception of Sandwich tern, which have been selected by review of available evidence and expert opinion. All matrices show predicted impacts for operational phase displacement unless otherwise stated.

11.1.9.1 Greater Wash SPA: Sandwich tern, DEP (design-based density estimates)

Table 0-916: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	12	20	31	39
20%	1	2	2	3	4	8	16	23	39	63	78
30%	1	2	4	5	6	12	23	35	59	94	117
40%	2	3	5	6	8	16	31	47	78	125	156
50%	2	4	6	8	10	20	39	59	98	156	196
60%	2	5	7	9	12	23	47	70	117	188	235
70%	3	5	8	11	14	27	55	82	137	219	274
80%	3	6	9	13	16	31	63	94	156	250	313
90%	4	7	11	14	18	35	70	106	176	282	352
100%	4	8	12	16	20	39	78	117	196	313	391

Table 0-917: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	61
40%	1	2	2	3	4	8	16	24	40	65	81
50%	1	2	3	4	5	10	20	30	51	81	101
60%	1	2	4	5	6	12	24	36	61	97	121
70%	1	3	4	6	7	14	28	42	71	113	141
80%	2	3	5	6	8	16	32	48	81	129	162
90%	2	4	5	7	9	18	36	55	91	145	182
100%	2	4	6	8	10	20	40	61	101	162	202

Table 0-918: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	9	16	25	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	9	14	24	38	47
70%	1	1	2	2	3	6	11	17	28	44	55
80%	1	1	2	3	3	6	13	19	32	51	63
90%	1	1	2	3	4	7	14	21	36	57	71
100%	1	2	2	3	4	8	16	24	40	63	79

11.1.9.2 Greater Wash SPA: Sandwich tern, SEP (design-based density estimates)

Table 0-919: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	6	10	13
20%	0	1	1	1	1	3	5	8	13	20	25
30%	0	1	1	2	2	4	8	11	19	30	38
40%	1	1	2	2	3	5	10	15	25	41	51
50%	1	1	2	3	3	6	13	19	32	51	64
60%	1	2	2	3	4	8	15	23	38	61	76
70%	1	2	3	4	4	9	18	27	44	71	89
80%	1	2	3	4	5	10	20	30	51	81	102
90%	1	2	3	5	6	11	23	34	57	91	114
100%	1	3	4	5	6	13	25	38	64	102	127

Table 0-920: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	4	6	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	11	17	21
40%	0	1	1	1	1	3	6	9	14	23	28
50%	0	1	1	1	2	4	7	11	18	28	36
60%	0	1	1	2	2	4	9	13	21	34	43
70%	0	1	1	2	2	5	10	15	25	40	50
80%	1	1	2	2	3	6	11	17	28	45	57
90%	1	1	2	3	3	6	13	19	32	51	64
100%	1	1	2	3	4	7	14	21	36	57	71

Table 0-921: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	3	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	11
60%	0	0	0	1	1	1	3	4	6	10	13
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	1	1	1	2	3	5	8	13	17
90%	0	0	1	1	1	2	4	6	9	15	19
100%	0	0	1	1	1	2	4	6	11	17	21

11.1.9.3 Greater Wash SPA: Sandwich tern, SEP and DEP (design-based density estimates)

Table 0-922: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	10	16	26	41	52
20%	1	2	3	4	5	10	21	31	52	83	104
30%	2	3	5	6	8	16	31	47	78	124	155
40%	2	4	6	8	10	21	41	62	104	166	207
50%	3	5	8	10	13	26	52	78	130	207	259
60%	3	6	9	12	16	31	62	93	155	249	311
70%	4	7	11	15	18	36	73	109	181	290	363
80%	4	8	12	17	21	41	83	124	207	332	414
90%	5	9	14	19	23	47	93	140	233	373	466
100%	5	10	16	21	26	52	104	155	259	414	518

Table 0-923: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	14	22	27
20%	1	1	2	2	3	5	11	16	27	44	55
30%	1	2	2	3	4	8	16	25	41	66	82
40%	1	2	3	4	5	11	22	33	55	87	109
50%	1	3	4	5	7	14	27	41	68	109	137
60%	2	3	5	7	8	16	33	49	82	131	164
70%	2	4	6	8	10	19	38	57	96	153	191
80%	2	4	7	9	11	22	44	66	109	175	218
90%	2	5	7	10	12	25	49	74	123	197	246
100%	3	5	8	11	14	27	55	82	137	218	273

Table 0-924: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	40
50%	1	1	2	2	3	5	10	15	25	40	50
60%	1	1	2	2	3	6	12	18	30	48	60
70%	1	1	2	3	4	7	14	21	35	56	70
80%	1	2	2	3	4	8	16	24	40	64	80
90%	1	2	3	4	5	9	18	27	45	72	90
100%	1	2	3	4	5	10	20	30	50	80	100

11.1.9.4 Greater Wash SPA: Sandwich tern, DEP (model-based density estimates)

Table 0-925: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	16	26	33
20%	1	1	2	3	3	7	13	20	33	52	65
30%	1	2	3	4	5	10	20	29	49	78	98
40%	1	3	4	5	7	13	26	39	65	105	131
50%	2	3	5	7	8	16	33	49	82	131	164
60%	2	4	6	8	10	20	39	59	98	157	196
70%	2	5	7	9	11	23	46	69	114	183	229
80%	3	5	8	10	13	26	52	78	131	209	262
90%	3	6	9	12	15	29	59	88	147	235	294
100%	3	7	10	13	16	33	65	98	164	262	327

Table 0-926: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	40
30%	1	1	2	2	3	6	12	18	30	48	61
40%	1	2	2	3	4	8	16	24	40	65	81
50%	1	2	3	4	5	10	20	30	50	81	101
60%	1	2	4	5	6	12	24	36	61	97	121
70%	1	3	4	6	7	14	28	42	71	113	141
80%	2	3	5	6	8	16	32	48	81	129	162
90%	2	4	5	7	9	18	36	55	91	145	182
100%	2	4	6	8	10	20	40	61	101	162	202

Table 0-927: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in DEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	20	24
30%	0	1	1	1	2	4	7	11	18	29	37
40%	0	1	1	2	2	5	10	15	24	39	49
50%	1	1	2	2	3	6	12	18	30	49	61
60%	1	1	2	3	4	7	15	22	37	59	73
70%	1	2	3	3	4	9	17	26	43	68	85
80%	1	2	3	4	5	10	20	29	49	78	98
90%	1	2	3	4	5	11	22	33	55	88	110
100%	1	2	4	5	6	12	24	37	61	98	122

11.1.9.5 Greater Wash SPA: Sandwich tern, SEP (model-based density estimates)

Table 0-928: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	15
20%	0	1	1	1	1	3	6	9	15	24	29
30%	0	1	1	2	2	4	9	13	22	35	44
40%	1	1	2	2	3	6	12	18	29	47	59
50%	1	1	2	3	4	7	15	22	37	59	74
60%	1	2	3	4	4	9	18	26	44	71	88
70%	1	2	3	4	5	10	21	31	52	82	103
80%	1	2	4	5	6	12	24	35	59	94	118
90%	1	3	4	5	7	13	26	40	66	106	132
100%	1	3	4	6	7	15	29	44	74	118	147

Table 0-929: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	25	31
40%	0	1	1	2	2	4	8	12	20	33	41
50%	1	1	2	2	3	5	10	15	26	41	51
60%	1	1	2	2	3	6	12	18	31	49	61
70%	1	1	2	3	4	7	14	21	36	57	72
80%	1	2	2	3	4	8	16	25	41	65	82
90%	1	2	3	4	5	9	18	28	46	74	92
100%	1	2	3	4	5	10	20	31	51	82	102

Table 0-930: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	10	16	26	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	10	15	24	39	49
70%	1	1	2	2	3	6	11	17	28	45	57
80%	1	1	2	3	3	6	13	19	32	52	65
90%	1	1	2	3	4	7	15	22	36	58	73
100%	1	2	2	3	4	8	16	24	40	65	81

11.1.9.6 Greater Wash SPA: Sandwich tern, SEP and DEP (model-based density estimates)

Table 0-931: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	24	38	47
20%	1	2	3	4	5	9	19	28	47	76	95
30%	1	3	4	6	7	14	28	43	71	114	142
40%	2	4	6	8	9	19	38	57	95	152	190
50%	2	5	7	9	12	24	47	71	119	190	237
60%	3	6	9	11	14	28	57	85	142	228	285
70%	3	7	10	13	17	33	66	100	166	266	332
80%	4	8	11	15	19	38	76	114	190	304	379
90%	4	9	13	17	21	43	85	128	213	341	427
100%	5	9	14	19	24	47	95	142	237	379	474

Table 0-932: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	15	24	30
20%	1	1	2	2	3	6	12	18	30	49	61
30%	1	2	3	4	5	9	18	27	46	73	91
40%	1	2	4	5	6	12	24	37	61	97	122
50%	2	3	5	6	8	15	30	46	76	122	152
60%	2	4	5	7	9	18	37	55	91	146	183
70%	2	4	6	9	11	21	43	64	106	170	213
80%	2	5	7	10	12	24	49	73	122	195	243
90%	3	5	8	11	14	27	55	82	137	219	274
100%	3	6	9	12	15	30	61	91	152	243	304

Table 0-933: Potential displacement (down) and mortality (across) of Greater Wash SPA Sandwich tern in SEP (breeding season/year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	41
30%	1	1	2	2	3	6	12	18	30	49	61
40%	1	2	2	3	4	8	16	24	41	65	81
50%	1	2	3	4	5	10	20	30	51	81	101
60%	1	2	4	5	6	12	24	37	61	97	122
70%	1	3	4	6	7	14	28	43	71	114	142
80%	2	3	5	6	8	16	32	49	81	130	162
90%	2	4	5	7	9	18	37	55	91	146	183
100%	2	4	6	8	10	20	41	61	101	162	203

11.1.9.7 Greater Wash SPA: Red-throated diver (construction phase displacement)

Table 0-934: Potential displacement (down) and mortality (across) of red-throated diver in ECC overlapping Greater Wash SPA (non-breeding season, upper 95% CI density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-935: Potential displacement (down) and mortality (across) of red-throated diver in ECC overlapping Greater Wash SPA (non-breeding season, mean density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	1	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	2	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-936: Potential displacement (down) and mortality (across) of red-throated diver in ECC overlapping Greater Wash SPA (non-breeding season, lower 95% CI density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	2

11.1.9.8 North Norfolk Coast SPA: Sandwich tern, DEP

Table 0-937: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	28	35
20%	1	1	2	3	3	7	14	21	35	55	69
30%	1	2	3	4	5	10	21	31	52	83	104
40%	1	3	4	6	7	14	28	42	69	111	138
50%	2	3	5	7	9	17	35	52	87	138	173
60%	2	4	6	8	10	21	42	62	104	166	208
70%	2	5	7	10	12	24	48	73	121	194	242
80%	3	6	8	11	14	28	55	83	138	221	277
90%	3	6	9	12	16	31	62	93	156	249	311
100%	3	7	10	14	17	35	69	104	173	277	346

Table 0-938: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	14	18
20%	0	1	1	1	2	4	7	11	18	29	36
30%	1	1	2	2	3	5	11	16	27	43	54
40%	1	1	2	3	4	7	14	21	36	57	71
50%	1	2	3	4	4	9	18	27	45	71	89
60%	1	2	3	4	5	11	21	32	54	86	107
70%	1	2	4	5	6	12	25	37	62	100	125
80%	1	3	4	6	7	14	29	43	71	114	143
90%	2	3	5	6	8	16	32	48	80	129	161
100%	2	4	5	7	9	18	36	54	89	143	179

Table 0-939: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	6	9	15	18
40%	0	0	1	1	1	2	5	7	12	20	25
50%	0	1	1	1	2	3	6	9	15	25	31
60%	0	1	1	1	2	4	7	11	18	30	37
70%	0	1	1	2	2	4	9	13	22	34	43
80%	0	1	1	2	2	5	10	15	25	39	49
90%	1	1	2	2	3	6	11	17	28	44	55
100%	1	1	2	2	3	6	12	18	31	49	62

Table 0-940: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	7	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	21
60%	0	0	1	1	1	2	5	7	12	20	25
70%	0	1	1	1	1	3	6	9	14	23	29
80%	0	1	1	1	2	3	7	10	16	26	33
90%	0	1	1	1	2	4	7	11	18	30	37
100%	0	1	1	2	2	4	8	12	21	33	41

Table 0-941: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	3	6	7
60%	0	0	0	0	0	1	2	3	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-942: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-943: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	8	12	19	31	39
20%	1	2	2	3	4	8	15	23	39	62	77
30%	1	2	3	5	6	12	23	35	58	93	116
40%	2	3	5	6	8	15	31	46	77	124	155
50%	2	4	6	8	10	19	39	58	97	155	194
60%	2	5	7	9	12	23	46	70	116	186	232
70%	3	5	8	11	14	27	54	81	135	217	271
80%	3	6	9	12	15	31	62	93	155	248	310
90%	3	7	10	14	17	35	70	105	174	279	348
100%	4	8	12	15	19	39	77	116	194	310	387

Table 0-944: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	15	19
20%	0	1	1	2	2	4	8	12	19	31	38
30%	1	1	2	2	3	6	12	17	29	46	58
40%	1	2	2	3	4	8	15	23	38	62	77
50%	1	2	3	4	5	10	19	29	48	77	96
60%	1	2	3	5	6	12	23	35	58	92	115
70%	1	3	4	5	7	13	27	40	67	108	135
80%	2	3	5	6	8	15	31	46	77	123	154
90%	2	3	5	7	9	17	35	52	87	139	173
100%	2	4	6	8	10	19	38	58	96	154	192

Table 0-945: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in DEP (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	6	9	15	18
40%	0	0	1	1	1	2	5	7	12	20	25
50%	0	1	1	1	2	3	6	9	15	25	31
60%	0	1	1	1	2	4	7	11	18	30	37
70%	0	1	1	2	2	4	9	13	22	34	43
80%	0	1	1	2	2	5	10	15	25	39	49
90%	1	1	2	2	3	6	11	17	28	44	55
100%	1	1	2	2	3	6	12	18	31	49	62

11.1.9.9 North Norfolk Coast SPA: Sandwich tern, SEP

Table 0-946: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	8	14	22	28
30%	0	1	1	2	2	4	8	13	21	33	42
40%	1	1	2	2	3	6	11	17	28	44	56
50%	1	1	2	3	3	7	14	21	35	56	70
60%	1	2	3	3	4	8	17	25	42	67	83
70%	1	2	3	4	5	10	19	29	49	78	97
80%	1	2	3	4	6	11	22	33	56	89	111
90%	1	3	4	5	6	13	25	38	63	100	125
100%	1	3	4	6	7	14	28	42	70	111	139

Table 0-947: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	11	18	23
40%	0	1	1	1	2	3	6	9	15	24	31
50%	0	1	1	2	2	4	8	11	19	31	38
60%	0	1	1	2	2	5	9	14	23	37	46
70%	1	1	2	2	3	5	11	16	27	43	54
80%	1	1	2	2	3	6	12	18	31	49	61
90%	1	1	2	3	3	7	14	21	34	55	69
100%	1	2	2	3	4	8	15	23	38	61	77

Table 0-948: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	25

11.1.9.10 North Norfolk Coast SPA: Sandwich tern, SEP and DEP

Table 0-949: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	10	15	24	39	49
20%	1	2	3	4	5	10	19	29	49	78	97
30%	1	3	4	6	7	15	29	44	73	116	146
40%	2	4	6	8	10	19	39	58	97	155	194
50%	2	5	7	10	12	24	49	73	121	194	243
60%	3	6	9	12	15	29	58	87	146	233	291
70%	3	7	10	14	17	34	68	102	170	272	340
80%	4	8	12	16	19	39	78	116	194	310	388
90%	4	9	13	17	22	44	87	131	218	349	437
100%	5	10	15	19	24	49	97	146	243	388	485

Table 0-950: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	20	26
20%	1	1	2	2	3	5	10	15	26	41	51
30%	1	2	2	3	4	8	15	23	38	61	77
40%	1	2	3	4	5	10	20	31	51	82	102
50%	1	3	4	5	6	13	26	38	64	102	128
60%	2	3	5	6	8	15	31	46	77	122	153
70%	2	4	5	7	9	18	36	54	89	143	179
80%	2	4	6	8	10	20	41	61	102	163	204
90%	2	5	7	9	11	23	46	69	115	184	230
100%	3	5	8	10	13	26	51	77	128	204	255

Table 0-951: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	3	5	9	14	17
30%	0	1	1	1	1	3	5	8	13	21	26
40%	0	1	1	1	2	3	7	10	17	28	34
50%	0	1	1	2	2	4	9	13	22	34	43
60%	1	1	2	2	3	5	10	15	26	41	52
70%	1	1	2	2	3	6	12	18	30	48	60
80%	1	1	2	3	3	7	14	21	34	55	69
90%	1	2	2	3	4	8	15	23	39	62	77
100%	1	2	3	3	4	9	17	26	43	69	86

Table 0-952: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (autumn migration, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	7	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	21
60%	0	0	1	1	1	2	5	7	12	20	25
70%	0	1	1	1	1	3	6	9	14	23	29
80%	0	1	1	1	2	3	7	10	16	26	33
90%	0	1	1	1	2	4	7	11	18	30	37
100%	0	1	1	2	2	4	8	12	21	33	41

Table 0-953: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (autumn migration, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	3	6	7
60%	0	0	0	0	0	1	2	3	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-954: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (autumn migration, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-955: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	11	16	26	42	53
20%	1	2	3	4	5	11	21	32	53	84	105
30%	2	3	5	6	8	16	32	47	79	126	158
40%	2	4	6	8	11	21	42	63	105	168	210
50%	3	5	8	11	13	26	53	79	132	210	263
60%	3	6	9	13	16	32	63	95	158	253	316
70%	4	7	11	15	18	37	74	110	184	295	368
80%	4	8	13	17	21	42	84	126	210	337	421
90%	5	9	14	19	24	47	95	142	237	379	473
100%	5	11	16	21	26	53	105	158	263	421	526

Table 0-956: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	22	27
20%	1	1	2	2	3	5	11	16	27	43	54
30%	1	2	2	3	4	8	16	24	40	65	81
40%	1	2	3	4	5	11	22	32	54	86	108
50%	1	3	4	5	7	13	27	40	67	108	134
60%	2	3	5	6	8	16	32	48	81	129	161
70%	2	4	6	8	9	19	38	56	94	151	188
80%	2	4	6	9	11	22	43	65	108	172	215
90%	2	5	7	10	12	24	48	73	121	194	242
100%	3	5	8	11	13	27	54	81	134	215	269

Table 0-957: Potential displacement (down) and mortality (across) of North Norfolk Coast SPA Sandwich tern in SEP and DEP (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	3	5	9	14	17
30%	0	1	1	1	1	3	5	8	13	21	26
40%	0	1	1	1	2	3	7	10	17	28	34
50%	0	1	1	2	2	4	9	13	22	34	43
60%	1	1	2	2	3	5	10	15	26	41	52
70%	1	1	2	2	3	6	12	18	30	48	60
80%	1	1	2	3	3	7	14	21	34	55	69
90%	1	2	2	3	4	8	15	23	39	62	77
100%	1	2	3	3	4	9	17	26	43	69	86

11.1.9.11 Farne Islands SPA: Guillemot, DEP

Table 0-958: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	9	18	27	45	73	91
20%	2	4	5	7	9	18	36	54	91	145	181
30%	3	5	8	11	14	27	54	82	136	218	272
40%	4	7	11	15	18	36	73	109	181	290	363
50%	5	9	14	18	23	45	91	136	227	363	453
60%	5	11	16	22	27	54	109	163	272	435	544
70%	6	13	19	25	32	63	127	190	317	508	635
80%	7	15	22	29	36	73	145	218	363	580	726
90%	8	16	24	33	41	82	163	245	408	653	816
100%	9	18	27	36	45	91	181	272	453	726	907

Table 0-959: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	44	55
20%	1	2	3	4	6	11	22	33	55	88	110
30%	2	3	5	7	8	17	33	50	83	132	165
40%	2	4	7	9	11	22	44	66	110	176	220
50%	3	6	8	11	14	28	55	83	138	220	275
60%	3	7	10	13	17	33	66	99	165	264	330
70%	4	8	12	15	19	39	77	116	193	308	386
80%	4	9	13	18	22	44	88	132	220	353	441
90%	5	10	15	20	25	50	99	149	248	397	496
100%	6	11	17	22	28	55	110	165	275	441	551

Table 0-960: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	14	23	29
20%	1	1	2	2	3	6	12	17	29	46	58
30%	1	2	3	3	4	9	17	26	43	69	87
40%	1	2	3	5	6	12	23	35	58	93	116
50%	1	3	4	6	7	14	29	43	72	116	145
60%	2	3	5	7	9	17	35	52	87	139	174
70%	2	4	6	8	10	20	41	61	101	162	203
80%	2	5	7	9	12	23	46	69	116	185	232
90%	3	5	8	10	13	26	52	78	130	208	261
100%	3	6	9	12	14	29	58	87	145	232	290

11.1.9.12 Farne Islands SPA: Guillemot, SEP

Table 0-961: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	12
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	12	19	23
50%	0	1	1	1	1	3	6	9	15	23	29
60%	0	1	1	1	2	3	7	10	17	28	35
70%	0	1	1	2	2	4	8	12	20	33	41
80%	0	1	1	2	2	5	9	14	23	37	46
90%	1	1	2	2	3	5	10	16	26	42	52
100%	1	1	2	2	3	6	12	17	29	46	58

Table 0-962: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	20
60%	0	0	1	1	1	2	5	7	12	19	24
70%	0	1	1	1	1	3	6	8	14	22	28
80%	0	1	1	1	2	3	6	10	16	26	32
90%	0	1	1	1	2	4	7	11	18	29	36
100%	0	1	1	2	2	4	8	12	20	32	40

Table 0-963: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	24

11.1.9.13 Farne Islands SPA: Guillemot, SEP and DEP

Table 0-964: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	19	29	48	77	96
20%	2	4	6	8	10	19	39	58	96	154	193
30%	3	6	9	12	14	29	58	87	145	232	289
40%	4	8	12	15	19	39	77	116	193	309	386
50%	5	10	14	19	24	48	96	145	241	386	482
60%	6	12	17	23	29	58	116	174	289	463	579
70%	7	14	20	27	34	68	135	203	338	540	675
80%	8	15	23	31	39	77	154	232	386	618	772
90%	9	17	26	35	43	87	174	261	434	695	868
100%	10	19	29	39	48	96	193	289	482	772	965

Table 0-965: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	18	30	47	59
20%	1	2	4	5	6	12	24	35	59	95	118
30%	2	4	5	7	9	18	35	53	89	142	177
40%	2	5	7	9	12	24	47	71	118	189	236
50%	3	6	9	12	15	30	59	89	148	236	295
60%	4	7	11	14	18	35	71	106	177	284	355
70%	4	8	12	17	21	41	83	124	207	331	414
80%	5	9	14	19	24	47	95	142	236	378	473
90%	5	11	16	21	27	53	106	160	266	425	532
100%	6	12	18	24	30	59	118	177	295	473	591

Table 0-966: Potential displacement (down) and mortality (across) of Farne Islands SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	9	16	25	31
20%	1	1	2	3	3	6	13	19	31	50	63
30%	1	2	3	4	5	9	19	28	47	75	94
40%	1	3	4	5	6	13	25	38	63	100	126
50%	2	3	5	6	8	16	31	47	79	126	157
60%	2	4	6	8	9	19	38	57	94	151	188
70%	2	4	7	9	11	22	44	66	110	176	220
80%	3	5	8	10	13	25	50	75	126	201	251
90%	3	6	8	11	14	28	57	85	141	226	283
100%	3	6	9	13	16	31	63	94	157	251	314

11.1.9.14 Farne Islands SPA: Puffin, DEP

Table 0-967: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	6	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-968: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	1	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-969: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.15 Farne Islands SPA: Puffin, SEP

Table 0-970: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-971: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-972: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.16 Farne Islands SPA: Puffin, SEP and DEP

Table 0-973: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	3	6	7
60%	0	0	0	0	0	1	2	2	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-974: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	6

Table 0-975: Potential displacement (down) and mortality (across) of Farne Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.17 Flamborough and Filey Coast (FFC) SPA: Gannet, DEP

Table 0-976: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	5	11	16	27	42	53
20%	1	2	3	4	5	11	21	32	53	85	106
30%	2	3	5	6	8	16	32	48	80	127	159
40%	2	4	6	8	11	21	42	64	106	170	212
50%	3	5	8	11	13	27	53	80	133	212	265
60%	3	6	10	13	16	32	64	95	159	254	318
70%	4	7	11	15	19	37	74	111	186	297	371
80%	4	8	13	17	21	42	85	127	212	339	424
90%	5	10	14	19	24	48	95	143	239	382	477
100%	5	11	16	21	27	53	106	159	265	424	530

Table 0-977: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	10	16	26	32
20%	1	1	2	3	3	6	13	19	32	51	64
30%	1	2	3	4	5	10	19	29	48	77	96
40%	1	3	4	5	6	13	26	38	64	102	128
50%	2	3	5	6	8	16	32	48	80	128	160
60%	2	4	6	8	10	19	38	57	96	153	192
70%	2	4	7	9	11	22	45	67	112	179	224
80%	3	5	8	10	13	26	51	77	128	204	256
90%	3	6	9	11	14	29	57	86	144	230	287
100%	3	6	10	13	16	32	64	96	160	256	319

Table 0-978: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	8	14	22	28
30%	0	1	1	2	2	4	8	12	21	33	41
40%	1	1	2	2	3	6	11	17	28	44	55
50%	1	1	2	3	3	7	14	21	34	55	69
60%	1	2	2	3	4	8	17	25	41	66	83
70%	1	2	3	4	5	10	19	29	48	77	97
80%	1	2	3	4	6	11	22	33	55	88	110
90%	1	2	4	5	6	12	25	37	62	99	124
100%	1	3	4	6	7	14	28	41	69	110	138

Table 0-979: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	25

Table 0-980: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-981: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	5	7
90%	0	0	0	0	0	1	1	2	4	6	7
100%	0	0	0	0	0	1	2	2	4	7	8

Table 0-982: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-983: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-984: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-985: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	45	56
20%	1	2	3	4	6	11	22	34	56	90	112
30%	2	3	5	7	8	17	34	50	84	135	168
40%	2	4	7	9	11	22	45	67	112	180	224
50%	3	6	8	11	14	28	56	84	140	224	280
60%	3	7	10	13	17	34	67	101	168	269	337
70%	4	8	12	16	20	39	79	118	196	314	393
80%	4	9	13	18	22	45	90	135	224	359	449
90%	5	10	15	20	25	50	101	151	252	404	505
100%	6	11	17	22	28	56	112	168	280	449	561

Table 0-986: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	20	34	54	68
30%	1	2	3	4	5	10	20	30	51	81	101
40%	1	3	4	5	7	14	27	41	68	108	135
50%	2	3	5	7	8	17	34	51	84	135	169
60%	2	4	6	8	10	20	41	61	101	162	203
70%	2	5	7	9	12	24	47	71	118	189	236
80%	3	5	8	11	14	27	54	81	135	216	270
90%	3	6	9	12	15	30	61	91	152	243	304
100%	3	7	10	14	17	34	68	101	169	270	338

Table 0-987: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	15
20%	0	1	1	1	1	3	6	9	15	23	29
30%	0	1	1	2	2	4	9	13	22	35	44
40%	1	1	2	2	3	6	12	18	29	47	59
50%	1	1	2	3	4	7	15	22	37	59	73
60%	1	2	3	4	4	9	18	26	44	70	88
70%	1	2	3	4	5	10	21	31	51	82	103
80%	1	2	4	5	6	12	23	35	59	94	117
90%	1	3	4	5	7	13	26	40	66	106	132
100%	1	3	4	6	7	15	29	44	73	117	147

11.1.9.18 Flamborough and Filey Coast (FFC) SPA: Gannet, SEP

Table 0-988: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	1	2	4	6	7
30%	0	0	0	0	1	1	2	3	5	9	11
40%	0	0	0	1	1	1	3	4	7	12	14
50%	0	0	1	1	1	2	4	5	9	14	18
60%	0	0	1	1	1	2	4	6	11	17	22
70%	0	1	1	1	1	3	5	8	13	20	25
80%	0	1	1	1	1	3	6	9	14	23	29
90%	0	1	1	1	2	3	6	10	16	26	32
100%	0	1	1	1	2	4	7	11	18	29	36

Table 0-989: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	11
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	13	16
100%	0	0	1	1	1	2	4	5	9	14	18

Table 0-990: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	2
90%	0	0	0	0	0	0	0	1	1	1	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-991: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	0	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	3	6	9	11
70%	0	0	0	1	1	1	3	4	7	11	13
80%	0	0	0	1	1	2	3	5	8	12	15
90%	0	0	1	1	1	2	3	5	9	14	17
100%	0	0	1	1	1	2	4	6	10	15	19

Table 0-992: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	7	9
80%	0	0	0	0	1	1	2	3	5	8	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	13

Table 0-993: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	6	7
90%	0	0	0	0	0	1	2	2	4	6	8
100%	0	0	0	0	0	1	2	3	4	7	9

Table 0-994: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-995: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-996: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-997: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	11
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	11	18	23
50%	0	1	1	1	1	3	6	9	14	23	28
60%	0	1	1	1	2	3	7	10	17	27	34
70%	0	1	1	2	2	4	8	12	20	32	40
80%	0	1	1	2	2	5	9	14	23	36	46
90%	1	1	2	2	3	5	10	15	26	41	51
100%	1	1	2	2	3	6	11	17	28	46	57

Table 0-998: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	8	9
40%	0	0	0	1	1	1	3	4	6	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	9	15	19
70%	0	0	1	1	1	2	4	7	11	18	22
80%	0	1	1	1	1	3	5	8	13	20	25
90%	0	1	1	1	1	3	6	8	14	23	28
100%	0	1	1	1	2	3	6	9	16	25	31

Table 0-999: Potential displacement (down) and mortality (across) of FFC SPA gannet in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	3	4	7	8
90%	0	0	0	0	0	1	2	3	5	8	9
100%	0	0	0	0	1	1	2	3	5	8	11

11.1.9.19 Flamborough and Filey Coast (FFC) SPA: Gannet, SEP and DEP

Table 0-1000: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	11	17	28	45	57
20%	1	2	3	5	6	11	23	34	57	91	113
30%	2	3	5	7	8	17	34	51	85	136	170
40%	2	5	7	9	11	23	45	68	113	181	226
50%	3	6	8	11	14	28	57	85	142	226	283
60%	3	7	10	14	17	34	68	102	170	272	340
70%	4	8	12	16	20	40	79	119	198	317	396
80%	5	9	14	18	23	45	91	136	226	362	453
90%	5	10	15	20	25	51	102	153	255	408	509
100%	6	11	17	23	28	57	113	170	283	453	566

Table 0-1001: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	13	20	34	54	67
30%	1	2	3	4	5	10	20	30	51	81	101
40%	1	3	4	5	7	13	27	40	67	108	135
50%	2	3	5	7	8	17	34	51	84	135	169
60%	2	4	6	8	10	20	40	61	101	162	202
70%	2	5	7	9	12	24	47	71	118	189	236
80%	3	5	8	11	13	27	54	81	135	216	270
90%	3	6	9	12	15	30	61	91	152	243	303
100%	3	7	10	13	17	34	67	101	169	270	337

Table 0-1002: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	8	14	22	28
30%	0	1	1	2	2	4	8	13	21	34	42
40%	1	1	2	2	3	6	11	17	28	45	56
50%	1	1	2	3	3	7	14	21	35	56	70
60%	1	2	3	3	4	8	17	25	42	67	84
70%	1	2	3	4	5	10	20	29	49	78	98
80%	1	2	3	4	6	11	22	34	56	89	112
90%	1	3	4	5	6	13	25	38	63	101	126
100%	1	3	4	6	7	14	28	42	70	112	140

Table 0-1003: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	11	13
40%	0	0	1	1	1	2	4	5	9	14	18
50%	0	0	1	1	1	2	4	7	11	18	22
60%	0	1	1	1	1	3	5	8	13	21	26
70%	0	1	1	1	2	3	6	9	15	25	31
80%	0	1	1	1	2	4	7	11	18	28	35
90%	0	1	1	2	2	4	8	12	20	32	40
100%	0	1	1	2	2	4	9	13	22	35	44

Table 0-1004: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	3	6	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	1	1	1	2	3	5	9	14	17
70%	0	0	1	1	1	2	4	6	10	16	20
80%	0	0	1	1	1	2	5	7	11	18	23
90%	0	1	1	1	1	3	5	8	13	21	26
100%	0	1	1	1	1	3	6	9	14	23	29

Table 0-1005: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	5	7
50%	0	0	0	0	0	1	2	3	4	7	8
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	9	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	15
100%	0	0	1	1	1	2	3	5	8	14	17

Table 0-1006: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	4	5
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	4	6	7
100%	0	0	0	0	0	1	2	2	4	6	8

Table 0-1007: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	1	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	2	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-1008: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1009: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	19	31	49	62
20%	1	2	4	5	6	12	25	37	62	99	124
30%	2	4	6	7	9	19	37	56	93	148	185
40%	2	5	7	10	12	25	49	74	124	198	247
50%	3	6	9	12	15	31	62	93	154	247	309
60%	4	7	11	15	19	37	74	111	185	297	371
70%	4	9	13	17	22	43	87	130	216	346	433
80%	5	10	15	20	25	49	99	148	247	395	494
90%	6	11	17	22	28	56	111	167	278	445	556
100%	6	12	19	25	31	62	124	185	309	494	618

Table 0-1010: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	4	7	11	18	30	37
20%	1	1	2	3	4	7	15	22	37	59	74
30%	1	2	3	4	6	11	22	33	55	89	111
40%	1	3	4	6	7	15	30	44	74	118	148
50%	2	4	6	7	9	18	37	55	92	148	184
60%	2	4	7	9	11	22	44	66	111	177	221
70%	3	5	8	10	13	26	52	77	129	207	258
80%	3	6	9	12	15	30	59	89	148	236	295
90%	3	7	10	13	17	33	66	100	166	266	332
100%	4	7	11	15	18	37	74	111	184	295	369

Table 0-1011: Potential displacement (down) and mortality (across) of FFC SPA gannet in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	9	16	25	31
30%	0	1	1	2	2	5	9	14	24	38	47
40%	1	1	2	3	3	6	13	19	31	50	63
50%	1	2	2	3	4	8	16	24	39	63	79
60%	1	2	3	4	5	9	19	28	47	76	94
70%	1	2	3	4	6	11	22	33	55	88	110
80%	1	3	4	5	6	13	25	38	63	101	126
90%	1	3	4	6	7	14	28	42	71	113	142
100%	2	3	5	6	8	16	31	47	79	126	157

11.1.9.20 Flamborough and Filey Coast (FFC) SPA: Guillemot, DEP

Table 0-1012: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	11	22	32	54	86	108
20%	2	4	6	9	11	22	43	65	108	173	216
30%	3	6	10	13	16	32	65	97	162	259	324
40%	4	9	13	17	22	43	86	129	216	345	431
50%	5	11	16	22	27	54	108	162	270	431	539
60%	6	13	19	26	32	65	129	194	324	518	647
70%	8	15	23	30	38	75	151	226	377	604	755
80%	9	17	26	35	43	86	173	259	431	690	863
90%	10	19	29	39	49	97	194	291	485	776	971
100%	11	22	32	43	54	108	216	324	539	863	1078

Table 0-1013: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	13	20	33	52	66
20%	1	3	4	5	7	13	26	39	66	105	131
30%	2	4	6	8	10	20	39	59	98	157	197
40%	3	5	8	10	13	26	52	79	131	210	262
50%	3	7	10	13	16	33	66	98	164	262	328
60%	4	8	12	16	20	39	79	118	197	314	393
70%	5	9	14	18	23	46	92	138	229	367	459
80%	5	10	16	21	26	52	105	157	262	419	524
90%	6	12	18	24	29	59	118	177	295	472	590
100%	7	13	20	26	33	66	131	197	328	524	655

Table 0-1014: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	28	34
20%	1	1	2	3	3	7	14	21	34	55	69
30%	1	2	3	4	5	10	21	31	52	83	103
40%	1	3	4	6	7	14	28	41	69	110	138
50%	2	3	5	7	9	17	34	52	86	138	172
60%	2	4	6	8	10	21	41	62	103	165	207
70%	2	5	7	10	12	24	48	72	121	193	241
80%	3	6	8	11	14	28	55	83	138	220	275
90%	3	6	9	12	15	31	62	93	155	248	310
100%	3	7	10	14	17	34	69	103	172	275	344

11.1.9.21 Flamborough and Filey Coast (FFC) SPA: Guillemot, SEP

Table 0-1015: Potential displacement (down) and mortality (across) of FFC SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	6	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	10	17	21
40%	0	1	1	1	1	3	6	8	14	22	28
50%	0	1	1	1	2	3	7	10	17	28	35
60%	0	1	1	2	2	4	8	12	21	33	41
70%	0	1	1	2	2	5	10	14	24	39	48
80%	1	1	2	2	3	6	11	17	28	44	55
90%	1	1	2	2	3	6	12	19	31	50	62
100%	1	1	2	3	3	7	14	21	35	55	69

Table 0-1016: Potential displacement (down) and mortality (across) of FFC SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	8	10
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	6	10	15	19
50%	0	0	1	1	1	2	5	7	12	19	24
60%	0	1	1	1	1	3	6	9	14	23	29
70%	0	1	1	1	2	3	7	10	17	27	33
80%	0	1	1	2	2	4	8	11	19	31	38
90%	0	1	1	2	2	4	9	13	21	34	43
100%	0	1	1	2	2	5	10	14	24	38	48

Table 0-1017: Potential displacement (down) and mortality (across) of FFC SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	3	6	9	12
50%	0	0	0	1	1	1	3	4	7	12	15
60%	0	0	1	1	1	2	3	5	9	14	17
70%	0	0	1	1	1	2	4	6	10	16	20
80%	0	0	1	1	1	2	5	7	12	19	23
90%	0	1	1	1	1	3	5	8	13	21	26
100%	0	1	1	1	1	3	6	9	15	23	29

11.1.9.22 Flamborough and Filey Coast (FFC) SPA: Guillemot, SEP and DEP

Table 0-1018: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	5	6	11	23	34	57	92	115
20%	2	5	7	9	11	23	46	69	115	184	229
30%	3	7	10	14	17	34	69	103	172	275	344
40%	5	9	14	18	23	46	92	138	229	367	459
50%	6	11	17	23	29	57	115	172	287	459	574
60%	7	14	21	28	34	69	138	207	344	551	688
70%	8	16	24	32	40	80	161	241	402	643	803
80%	9	18	28	37	46	92	184	275	459	734	918
90%	10	21	31	41	52	103	207	310	516	826	1033
100%	11	23	34	46	57	115	229	344	574	918	1147

Table 0-1019: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	14	21	35	56	70
20%	1	3	4	6	7	14	28	42	70	112	141
30%	2	4	6	8	11	21	42	63	105	169	211
40%	3	6	8	11	14	28	56	84	141	225	281
50%	4	7	11	14	18	35	70	105	176	281	351
60%	4	8	13	17	21	42	84	126	211	337	422
70%	5	10	15	20	25	49	98	148	246	394	492
80%	6	11	17	22	28	56	112	169	281	450	562
90%	6	13	19	25	32	63	126	190	316	506	632
100%	7	14	21	28	35	70	141	211	351	562	703

Table 0-1020: Potential displacement (down) and mortality (across) of FFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	4	7	11	19	30	37
20%	1	1	2	3	4	7	15	22	37	60	75
30%	1	2	3	4	6	11	22	34	56	90	112
40%	1	3	4	6	7	15	30	45	75	120	149
50%	2	4	6	7	9	19	37	56	93	149	187
60%	2	4	7	9	11	22	45	67	112	179	224
70%	3	5	8	10	13	26	52	78	131	209	261
80%	3	6	9	12	15	30	60	90	149	239	299
90%	3	7	10	13	17	34	67	101	168	269	336
100%	4	7	11	15	19	37	75	112	187	299	373

11.1.9.23 Flamborough and Filey Coast (FFC) SPA: Razorbill, DEP

Table 0-1021: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	8	10
30%	0	0	0	1	1	1	3	4	7	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	0	1	1	1	2	5	7	12	20	25
60%	0	1	1	1	1	3	6	9	15	24	30
70%	0	1	1	1	2	3	7	10	17	28	35
80%	0	1	1	2	2	4	8	12	20	32	40
90%	0	1	1	2	2	4	9	13	22	36	45
100%	0	1	1	2	2	5	10	15	25	40	50

Table 0-1022: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	8	9
40%	0	0	0	1	1	1	3	4	6	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	9	15	19
70%	0	0	1	1	1	2	4	7	11	18	22
80%	0	1	1	1	1	3	5	8	13	20	25
90%	0	1	1	1	1	3	6	8	14	23	28
100%	0	1	1	1	2	3	6	9	16	25	31

Table 0-1023: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	11
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	13	16
100%	0	0	1	1	1	2	4	5	9	14	18

Table 0-1024: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	1	2	4	6	7
30%	0	0	0	0	1	1	2	3	5	9	11
40%	0	0	0	1	1	1	3	4	7	12	15
50%	0	0	1	1	1	2	4	5	9	15	18
60%	0	0	1	1	1	2	4	7	11	17	22
70%	0	1	1	1	1	3	5	8	13	20	25
80%	0	1	1	1	1	3	6	9	15	23	29
90%	0	1	1	1	2	3	7	10	16	26	33
100%	0	1	1	1	2	4	7	11	18	29	36

Table 0-1025: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	5	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	11
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	5	9	15	18
90%	0	0	1	1	1	2	4	6	10	16	21
100%	0	0	1	1	1	2	5	7	11	18	23

Table 0-1026: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	0	1	1	2	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	1	2	4	6	7
70%	0	0	0	0	0	1	2	3	4	7	9
80%	0	0	0	0	0	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	5	9	11
100%	0	0	0	0	1	1	2	4	6	10	12

Table 0-1027: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	4
30%	0	0	0	0	0	1	1	2	3	5	7
40%	0	0	0	0	0	1	2	3	4	7	9
50%	0	0	0	0	1	1	2	3	6	9	11
60%	0	0	0	1	1	1	3	4	7	11	13
70%	0	0	0	1	1	2	3	5	8	12	16
80%	0	0	1	1	1	2	4	5	9	14	18
90%	0	0	1	1	1	2	4	6	10	16	20
100%	0	0	1	1	1	2	4	7	11	18	22

Table 0-1028: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-1029: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1030: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	9	11
20%	0	0	1	1	1	2	4	7	11	17	22
30%	0	1	1	1	2	3	7	10	16	26	33
40%	0	1	1	2	2	4	9	13	22	35	43
50%	1	1	2	2	3	5	11	16	27	43	54
60%	1	1	2	3	3	7	13	20	33	52	65
70%	1	2	2	3	4	8	15	23	38	61	76
80%	1	2	3	3	4	9	17	26	43	69	87
90%	1	2	3	4	5	10	20	29	49	78	98
100%	1	2	3	4	5	11	22	33	54	87	108

Table 0-1031: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	10	13
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	13	21	26
50%	0	1	1	1	2	3	7	10	16	26	33
60%	0	1	1	2	2	4	8	12	20	31	39
70%	0	1	1	2	2	4.6	9	14	23	36	46
80%	1	1	2	2	3	5	10	16	26	42	52
90%	1	1	2	2	3	6	12	18	29	47	59
100%	1	1	2	3	3	7	13	20	33	52	65

Table 0-1032: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	0	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	11	18	23
80%	0	1	1	1	1	3	5	8	13	21	26
90%	0	1	1	1	1	3	6	9	15	24	29
100%	0	1	1	1	2	3	7	10	16	26	33

11.1.9.24 Flamborough and Filey Coast (FFC) SPA: Razorbill, SEP

Table 0-1033: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	9
70%	0	0	0	0	1	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1034: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-1035: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	5
80%	0	0	0	0	0	1	1	2	3	4	6
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	4	6	7

Table 0-1036: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	14	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	30

Table 0-1037: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	6
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	5	7	9
60%	0	0	0	0	1	1	2	3	6	9	11
70%	0	0	0	1	1	1	3	4	6	10	13
80%	0	0	0	1	1	1	3	4	7	12	15
90%	0	0	1	1	1	2	3	5	8	13	17
100%	0	0	1	1	1	2	4	6	9	15	19

Table 0-1038: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	2	4	7	8
100%	0	0	0	0	0	1	2	3	5	7	9

Table 0-1039: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	2	4	7	8
90%	0	0	0	0	0	1	2	3	5	7	9
100%	0	0	0	0	1	1	2	3	5	8	10

Table 0-1040: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	3	3
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	4
100%	0	0	0	0	0	0	1	1	2	4	5

Table 0-1041: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1042: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	9	11
30%	0	0	0	1	1	2	3	5	8	13	16
40%	0	0	1	1	1	2	4	7	11	17	22
50%	0	1	1	1	1	3	5	8	14	22	27
60%	0	1	1	1	2	3	7	10	16	26	33
70%	0	1	1	2	2	4	8	11	19	31	38
80%	0	1	1	2	2	4	9	13	22	35	44
90%	0	1	1	2	2	5	10	15	25	39	49
100%	1	1	2	2	3	5	11	16	27	44	55

Table 0-1043: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	1	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	11	14
50%	0	0	1	1	1	2	3	5	9	14	17
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	12	19	24
80%	0	1	1	1	1	3	5	8	14	22	27
90%	0	1	1	1	2	3	6	9	15	25	31
100%	0	1	1	1	2	3	7	10	17	27	34

Table 0-1044: Potential displacement (down) and mortality (across) of FFC SPA razorbill in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	5	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	15
100%	0	0	1	1	1	2	3	5	9	14	17

11.1.9.25 Flamborough and Filey Coast (FFC) SPA: Razorbill, SEP and DEP

Table 0-1045: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	1	1	1	3	4	6	10	13
30%	0	0	1	1	1	2	4	6	10	15	19
40%	0	1	1	1	1	3	5	8	13	21	26
50%	0	1	1	1	2	3	6	10	16	26	32
60%	0	1	1	2	2	4	8	12	19	31	39
70%	0	1	1	2	2	4	9	13	22	36	45
80%	1	1	2	2	3	5	10	15	26	41	51
90%	1	1	2	2	3	6	12	17	29	46	58
100%	1	1	2	3	3	6	13	19	32	51	64

Table 0-1046: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	8
30%	0	0	0	1	1	1	3	4	6	10	13
40%	0	0	1	1	1	2	3	5	8	13	17
50%	0	0	1	1	1	2	4	6	11	17	21
60%	0	1	1	1	1	3	5	8	13	20	25
70%	0	1	1	1	1	3	6	9	15	24	29
80%	0	1	1	1	2	3	7	10	17	27	34
90%	0	1	1	2	2	4	8	11	19	30	38
100%	0	1	1	2	2	4	8	13	21	34	42

Table 0-1047: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	25

Table 0-1048: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	13
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	13	21	27
50%	0	1	1	1	2	3	7	10	17	27	33
60%	0	1	1	2	2	4	8	12	20	32	40
70%	0	1	1	2	2	5	9	14	23	37	46
80%	1	1	2	2	3	5	11	16	27	43	53
90%	1	1	2	2	3	6	12	18	30	48	60
100%	1	1	2	3	3	7	13	20	33	53	66

Table 0-1049: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	7	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	17
50%	0	0	1	1	1	2	4	6	10	17	21
60%	0	0	1	1	1	2	5	7	12	20	25
70%	0	1	1	1	1	3	6	9	14	23	29
80%	0	1	1	1	2	3	7	10	17	26	33
90%	0	1	1	1	2	4	7	11	19	30	37
100%	0	1	1	2	2	4	8	12	21	33	41

Table 0-1050: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	3	4	7	9
50%	0	0	0	0	1	1	2	3	5	9	11
60%	0	0	0	1	1	1	3	4	6	10	13
70%	0	0	0	1	1	1	3	4	7	12	15
80%	0	0	1	1	1	2	3	5	9	14	17
90%	0	0	1	1	1	2	4	6	10	15	19
100%	0	0	1	1	1	2	4	6	11	17	21

Table 0-1051: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	6	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	10	16	19
70%	0	0	1	1	1	2	5	7	11	18	23
80%	0	1	1	1	1	3	5	8	13	21	26
90%	0	1	1	1	1	3	6	9	15	23	29
100%	0	1	1	1	2	3	6	10	16	26	32

Table 0-1052: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	8	9
70%	0	0	0	0	1	1	2	3	6	9	11
80%	0	0	0	1	1	1	3	4	6	10	13
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	13	16

Table 0-1053: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1054: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	7	10	16	26	33
30%	0	1	1	2	2	5	10	15	24	39	49
40%	1	1	2	3	3	7	13	20	33	52	65
50%	1	2	2	3	4	8	16	24	41	65	82
60%	1	2	3	4	5	10	20	29	49	78	98
70%	1	2	3	5	6	11	23	34	57	91	114
80%	1	3	4	5	7	13	26	39	65	104	130
90%	1	3	4	6	7	15	29	44	73	117	147
100%	2	3	5	7	8	16	33	49	82	130	163

Table 0-1055: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	1	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	40
50%	0	1	1	2	2	5	10	15	25	40	50
60%	1	1	2	2	3	6	12	18	30	48	60
70%	1	1	2	3	3	7	14	21	35	56	69
80%	1	2	2	3	4	8	16	24	40	64	79
90%	1	2	3	4	4	9	18	27	45	71	89
100%	1	2	3	4	5	10	20	30	50	79	99

Table 0-1056: Potential displacement (down) and mortality (across) of FFC SPA razorbill in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	8	10
30%	0	0	0	1	1	1	3	4	7	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	0	1	1	1	2	5	7	12	20	25
60%	0	1	1	1	1	3	6	9	15	24	30
70%	0	1	1	1	2	3	7	10	17	28	35
80%	0	1	1	2	2	4	8	12	20	32	40
90%	0	1	1	2	2	4	9	13	22	36	45
100%	0	1	1	2	2	5	10	15	25	40	50

11.1.9.26 St Abbs Head to Fast Castle (SAHFC) SPA: Guillemot, DEP

Table 0-1057: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	20	30	50	80	100
20%	2	4	6	8	10	20	40	60	100	161	201
30%	3	6	9	12	15	30	60	90	151	241	301
40%	4	8	12	16	20	40	80	121	201	322	402
50%	5	10	15	20	25	50	100	151	251	402	502
60%	6	12	18	24	30	60	121	181	301	482	603
70%	7	14	21	28	35	70	141	211	352	563	703
80%	8	16	24	32	40	80	161	241	402	643	804
90%	9	18	27	36	45	90	181	271	452	724	904
100%	10	20	30	40	50	100	201	301	502	804	1005

Table 0-1058: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	18	31	49	61
20%	1	2	4	5	6	12	24	37	61	98	122
30%	2	4	5	7	9	18	37	55	92	146	183
40%	2	5	7	10	12	24	49	73	122	195	244
50%	3	6	9	12	15	31	61	92	153	244	305
60%	4	7	11	15	18	37	73	110	183	293	366
70%	4	9	13	17	21	43	85	128	214	342	427
80%	5	10	15	20	24	49	98	146	244	391	488
90%	5	11	16	22	27	55	110	165	275	439	549
100%	6	12	18	24	31	61	122	183	305	488	610

Table 0-1059: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	10	16	26	32
20%	1	1	2	3	3	6	13	19	32	51	64
30%	1	2	3	4	5	10	19	29	48	77	96
40%	1	3	4	5	6	13	26	39	64	103	128
50%	2	3	5	6	8	16	32	48	80	128	160
60%	2	4	6	8	10	19	39	58	96	154	193
70%	2	4	7	9	11	22	45	67	112	180	225
80%	3	5	8	10	13	26	51	77	128	205	257
90%	3	6	9	12	14	29	58	87	144	231	289
100%	3	6	10	13	16	32	64	96	160	257	321

11.1.9.27 St Abbs Head to Fast Castle (SAHFC) SPA: Guillemot, SEP

Table 0-1060: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	1	1	1	3	4	6	10	13
30%	0	0	1	1	1	2	4	6	10	15	19
40%	0	1	1	1	1	3	5	8	13	21	26
50%	0	1	1	1	2	3	6	10	16	26	32
60%	0	1	1	2	2	4	8	12	19	31	39
70%	0	1	1	2	2	5	9	14	23	36	45
80%	1	1	2	2	3	5	10	15	26	41	51
90%	1	1	2	2	3	6	12	17	29	46	58
100%	1	1	2	3	3	6	13	19	32	51	64

Table 0-1061: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	11	13
40%	0	0	1	1	1	2	4	5	9	14	18
50%	0	0	1	1	1	2	4	7	11	18	22
60%	0	1	1	1	1	3	5	8	13	21	27
70%	0	1	1	1	2	3	6	9	16	25	31
80%	0	1	1	1	2	4	7	11	18	28	36
90%	0	1	1	2	2	4	8	12	20	32	40
100%	0	1	1	2	2	4	9	13	22	36	44

Table 0-1062: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	7	8
40%	0	0	0	0	1	1	2	3	5	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	0	1	1	2	3	5	8	13	16
70%	0	0	1	1	1	2	4	6	9	15	19
80%	0	0	1	1	1	2	4	7	11	17	22
90%	0	0	1	1	1	2	5	7	12	20	24
100%	0	1	1	1	1	3	5	8	14	22	27

11.1.9.28 St Abbs Head to Fast Castle (SAHFC) SPA: Guillemot, SEP and DEP

Table 0-1063: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	11	21	32	53	86	107
20%	2	4	6	9	11	21	43	64	107	171	214
30%	3	6	10	13	16	32	64	96	160	257	321
40%	4	9	13	17	21	43	86	128	214	342	428
50%	5	11	16	21	27	53	107	160	267	428	535
60%	6	13	19	26	32	64	128	192	321	513	642
70%	7	15	22	30	37	75	150	225	374	599	748
80%	9	17	26	34	43	86	171	257	428	684	855
90%	10	19	29	38	48	96	192	289	481	770	962
100%	11	21	32	43	53	107	214	321	535	855	1069

Table 0-1064: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	13	20	33	52	65
20%	1	3	4	5	7	13	26	39	65	105	131
30%	2	4	6	8	10	20	39	59	98	157	196
40%	3	5	8	10	13	26	52	79	131	210	262
50%	3	7	10	13	16	33	65	98	164	262	327
60%	4	8	12	16	20	39	79	118	196	314	393
70%	5	9	14	18	23	46	92	138	229	367	458
80%	5	10	16	21	26	52	105	157	262	419	524
90%	6	12	18	24	29	59	118	177	295	471	589
100%	7	13	20	26	33	65	131	196	327	524	655

Table 0-1065: Potential displacement (down) and mortality (across) of SAHFC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	28	35
20%	1	1	2	3	3	7	14	21	35	56	70
30%	1	2	3	4	5	10	21	31	52	84	104
40%	1	3	4	6	7	14	28	42	70	111	139
50%	2	3	5	7	9	17	35	52	87	139	174
60%	2	4	6	8	10	21	42	63	104	167	209
70%	2	5	7	10	12	24	49	73	122	195	244
80%	3	6	8	11	14	28	56	84	139	223	278

90%	3	6	9	13	16	31	63	94	157	251	313
100%	3	7	10	14	17	35	70	104	174	278	348

11.1.9.29 Forth Islands SPA: Gannet, DEP

Table 0-1066: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	6	10	13
20%	0	1	1	1	1	3	5	8	13	20	25
30%	0	1	1	2	2	4	8	11	19	30	38
40%	1	1	2	2	3	5	10	15	25	40	50
50%	1	1	2	3	3	6	13	19	31	50	63
60%	1	2	2	3	4	8	15	23	38	60	75
70%	1	2	3	4	4	9	18	26	44	70	88
80%	1	2	3	4	5	10	20	30	50	80	101
90%	1	2	3	5	6	11	23	34	57	91	113
100%	1	3	4	5	6	13	25	38	63	101	126

Table 0-1067: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	16
30%	0	0	1	1	1	2	5	7	12	19	23
40%	0	1	1	1	2	3	6	9	16	25	31
50%	0	1	1	2	2	4	8	12	19	31	39
60%	0	1	1	2	2	5	9	14	23	37	47
70%	1	1	2	2	3	5	11	16	27	44	54
80%	1	1	2	2	3	6	12	19	31	50	62
90%	1	1	2	3	4	7	14	21	35	56	70
100%	1	2	2	3	4	8	16	23	39	62	78

Table 0-1068: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	8
30%	0	0	0	1	1	1	3	4	6	10	13
40%	0	0	1	1	1	2	3	5	8	13	17
50%	0	0	1	1	1	2	4	6	11	17	21
60%	0	1	1	1	1	3	5	8	13	20	25
70%	0	1	1	1	1	3	6	9	15	24	29
80%	0	1	1	1	2	3	7	10	17	27	34
90%	0	1	1	2	2	4	8	11	19	30	38

100%	0	1	1	2	2	4	8	13	21	34	42

Table 0-1069: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	15	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	20	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	31

Table 0-1070: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	3	6	7
60%	0	0	0	0	0	1	2	2	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1071: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1072: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	9	16	25	31
30%	0	1	1	2	2	5	9	14	23	38	47
40%	1	1	2	3	3	6	13	19	31	50	63
50%	1	2	2	3	4	8	16	23	39	63	78
60%	1	2	3	4	5	9	19	28	47	75	94
70%	1	2	3	4	5	11	22	33	55	88	109
80%	1	3	4	5	6	13	25	38	63	100	125
90%	1	3	4	6	7	14	28	42	70	113	141
100%	2	3	5	6	8	16	31	47	78	125	156

Table 0-1073: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	7	9
20%	0	0	1	1	1	2	4	6	9	15	18
30%	0	1	1	1	1	3	6	8	14	22	28
40%	0	1	1	1	2	4	7	11	18	29	37
50%	0	1	1	2	2	5	9	14	23	37	46
60%	1	1	2	2	3	6	11	17	28	44	55
70%	1	1	2	3	3	6	13	19	32	51	64
80%	1	1	2	3	4	7	15	22	37	59	73
90%	1	2	2	3	4	8	17	25	41	66	83
100%	1	2	3	4	5	9	18	28	46	73	92

Table 0-1074: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	11	13
40%	0	0	1	1	1	2	4	5	9	14	18
50%	0	0	1	1	1	2	4	7	11	18	22
60%	0	1	1	1	1	3	5	8	13	22	27
70%	0	1	1	1	2	3	6	9	16	25	31
80%	0	1	1	1	2	4	7	11	18	29	36
90%	0	1	1	2	2	4	8	12	20	32	40
100%	0	1	1	2	2	4	9	13	22	36	45

11.1.9.30 Forth Islands SPA: Gannet, SEP

Table 0-1075: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	15	19
30%	0	1	1	1	1	3	6	9	15	23	29
40%	0	1	1	2	2	4	8	12	19	31	39
50%	0	1	1	2	2	5	10	15	24	39	48
60%	1	1	2	2	3	6	12	17	29	46	58
70%	1	1	2	3	3	7	14	20	34	54	68
80%	1	2	2	3	4	8	15	23	39	62	77
90%	1	2	3	3	4	9	17	26	44	70	87
100%	1	2	3	4	5	10	19	29	48	77	97

Table 0-1076: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	13
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	13	21	27
50%	0	1	1	1	2	3	7	10	17	27	33
60%	0	1	1	2	2	4	8	12	20	32	40
70%	0	1	1	2	2	5	9	14	23	37	47
80%	1	1	2	2	3	5	11	16	27	43	53
90%	1	1	2	2	3	6	12	18	30	48	60
100%	1	1	2	3	3	7	13	20	33	53	67

Table 0-1077: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	10	13
40%	0	0	1	1	1	2	3	5	9	14	17
50%	0	0	1	1	1	2	4	7	11	17	22
60%	0	1	1	1	1	3	5	8	13	21	26
70%	0	1	1	1	2	3	6	9	15	24	31
80%	0	1	1	1	2	3	7	10	17	28	35
90%	0	1	1	2	2	4	8	12	20	31	39
100%	0	1	1	2	2	4	9	13	22	35	44

Table 0-1078: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	2	4	7	8
100%	0	0	0	0	0	1	2	3	5	7	9

Table 0-1079: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-1080: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1081: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	11
20%	0	0	1	1	1	2	4	6	11	17	21
30%	0	1	1	1	2	3	6	10	16	25	32
40%	0	1	1	2	2	4	8	13	21	34	42
50%	1	1	2	2	3	5	11	16	26	42	53
60%	1	1	2	3	3	6	13	19	32	51	63
70%	1	1	2	3	4	7	15	22	37	59	74
80%	1	2	3	3	4	8	17	25	42	68	85
90%	1	2	3	4	5	10	19	29	48	76	95
100%	1	2	3	4	5	11	21	32	53	85	106

Table 0-1082: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	6	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	10	17	21
40%	0	1	1	1	1	3	6	8	14	22	28
50%	0	1	1	1	2	3	7	10	17	28	35
60%	0	1	1	2	2	4	8	13	21	34	42
70%	0	1	1	2	2	5	10	15	24	39	49
80%	1	1	2	2	3	6	11	17	28	45	56
90%	1	1	2	3	3	6	13	19	31	50	63
100%	1	1	2	3	3	7	14	21	35	56	70

Table 0-1083: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	10	13
40%	0	0	1	1	1	2	3	5	9	14	17
50%	0	0	1	1	1	2	4	7	11	17	22
60%	0	1	1	1	1	3	5	8	13	21	26
70%	0	1	1	1	2	3	6	9	15	24	31
80%	0	1	1	1	2	3	7	10	17	28	35
90%	0	1	1	2	2	4	8	12	20	31	39
100%	0	1	1	2	2	4	9	13	22	35	44

11.1.9.31 Forth Islands SPA: Gannet, SEP and DEP

Table 0-1084: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	7	11	18	22
20%	0	1	1	2	2	4	9	13	22	36	44
30%	1	1	2	3	3	7	13	20	33	53	67
40%	1	2	3	4	4	9	18	27	44	71	89
50%	1	2	3	4	6	11	22	33	56	89	111
60%	1	3	4	5	7	13	27	40	67	107	133
70%	2	3	5	6	8	16	31	47	78	125	156
80%	2	4	5	7	9	18	36	53	89	142	178
90%	2	4	6	8	10	20	40	60	100	160	200
100%	2	4	7	9	11	22	44	67	111	178	222

Table 0-1085: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	14
20%	0	1	1	1	1	3	6	9	14	23	29
30%	0	1	1	2	2	4	9	13	22	35	43
40%	1	1	2	2	3	6	12	17	29	46	58
50%	1	1	2	3	4	7	14	22	36	58	72
60%	1	2	3	3	4	9	17	26	43	69	87
70%	1	2	3	4	5	10	20	30	51	81	101
80%	1	2	3	5	6	12	23	35	58	93	116
90%	1	3	4	5	7	13	26	39	65	104	130
100%	1	3	4	6	7	14	29	43	72	116	145

Table 0-1086: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	3	5	9	14	17
30%	0	1	1	1	1	3	5	8	13	21	26
40%	0	1	1	1	2	3	7	10	17	27	34
50%	0	1	1	2	2	4	9	13	21	34	43
60%	1	1	2	2	3	5	10	15	26	41	51
70%	1	1	2	2	3	6	12	18	30	48	60
80%	1	1	2	3	3	7	14	21	34	55	69
90%	1	2	2	3	4	8	15	23	39	62	77
100%	1	2	3	3	4	9	17	26	43	69	86

Table 0-1087: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	20
60%	0	0	1	1	1	2	5	7	12	19	24
70%	0	1	1	1	1	3	6	8	14	22	28
80%	0	1	1	1	2	3	6	10	16	25	32
90%	0	1	1	1	2	4	7	11	18	29	36
100%	0	1	1	2	2	4	8	12	20	32	40

Table 0-1088: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	5	7
50%	0	0	0	0	0	1	2	3	4	7	8
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	15
100%	0	0	1	1	1	2	3	5	8	14	17

Table 0-1089: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1090: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	21	26
20%	1	1	2	2	3	5	10	16	26	42	52
30%	1	2	2	3	4	8	16	24	39	63	79
40%	1	2	3	4	5	10	21	31	52	84	105
50%	1	3	4	5	7	13	26	39	66	105	131
60%	2	3	5	6	8	16	31	47	79	126	157
70%	2	4	6	7	9	18	37	55	92	147	183
80%	2	4	6	8	10	21	42	63	105	168	210
90%	2	5	7	9	12	24	47	71	118	189	236
100%	3	5	8	10	13	26	52	79	131	210	262

Table 0-1091: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	10	16	26	32
30%	0	1	1	2	2	5	10	15	24	39	49
40%	1	1	2	3	3	6	13	19	32	52	65
50%	1	2	2	3	4	8	16	24	40	65	81
60%	1	2	3	4	5	10	19	29	49	78	97
70%	1	2	3	5	6	11	23	34	57	91	113
80%	1	3	4	5	6	13	26	39	65	103	129
90%	1	3	4	6	7	15	29	44	73	116	146
100%	2	3	5	6	8	16	32	49	81	129	162

Table 0-1092: Potential displacement (down) and mortality (across) of Forth Islands SPA gannet in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	4	5	9	14	18
30%	0	1	1	1	1	3	5	8	13	21	27
40%	0	1	1	1	2	4	7	11	18	28	35
50%	0	1	1	2	2	4	9	13	22	35	44
60%	1	1	2	2	3	5	11	16	27	43	53
70%	1	1	2	2	3	6	12	19	31	50	62
80%	1	1	2	3	4	7	14	21	35	57	71
90%	1	2	2	3	4	8	16	24	40	64	80
100%	1	2	3	4	4	9	18	27	44	71	89

11.1.9.32 Forth Islands SPA: Puffin, DEP

Table 0-1093: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-1094: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1095: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.33 Forth Islands SPA: Puffin, SEP

Table 0-1096: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1097: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1098: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.34 Forth Islands SPA: Puffin, SEP and DEP

Table 0-1099: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	3	4	7	9
50%	0	0	0	0	1	1	2	3	5	9	11
60%	0	0	0	1	1	1	3	4	6	10	13
70%	0	0	0	1	1	2	3	5	8	12	15
80%	0	0	1	1	1	2	3	5	9	14	17
90%	0	0	1	1	1	2	4	6	10	15	19
100%	0	0	1	1	1	2	4	6	11	17	21

Table 0-1100: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	5	7
90%	0	0	0	0	0	1	2	2	4	6	8
100%	0	0	0	0	0	1	2	3	4	7	9

Table 0-1101: Potential displacement (down) and mortality (across) of Forth Islands SPA puffin in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.35 Fowlsheugh SPA: Guillemot, DEP

Table 0-1102: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	15	22	37	59	74
20%	1	3	4	6	7	15	29	44	74	118	147
30%	2	4	7	9	11	22	44	66	110	176	221
40%	3	6	9	12	15	29	59	88	147	235	294
50%	4	7	11	15	18	37	74	110	184	294	368
60%	4	9	13	18	22	44	88	132	221	353	441
70%	5	10	15	21	26	51	103	154	257	412	515
80%	6	12	18	24	29	59	118	176	294	471	588
90%	7	13	20	26	33	66	132	199	331	529	662
100%	7	15	22	29	37	74	147	221	368	588	735

Table 0-1103: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	22	36	45
20%	1	2	3	4	4	9	18	27	45	71	89
30%	1	3	4	5	7	13	27	40	67	107	134
40%	2	4	5	7	9	18	36	54	89	143	179
50%	2	4	7	9	11	22	45	67	112	179	223
60%	3	5	8	11	13	27	54	80	134	214	268
70%	3	6	9	13	16	31	63	94	156	250	313
80%	4	7	11	14	18	36	71	107	179	286	357
90%	4	8	12	16	20	40	80	121	201	322	402
100%	4	9	13	18	22	45	89	134	223	357	447

Table 0-1104: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	19	23
20%	0	1	1	2	2	5	9	14	23	38	47
30%	1	1	2	3	4	7	14	21	35	56	70
40%	1	2	3	4	5	9	19	28	47	75	94
50%	1	2	4	5	6	12	23	35	59	94	117
60%	1	3	4	6	7	14	28	42	70	113	141
70%	2	3	5	7	8	16	33	49	82	131	164
80%	2	4	6	8	9	19	38	56	94	150	188
90%	2	4	6	8	11	21	42	63	106	169	211
100%	2	5	7	9	12	23	47	70	117	188	235

11.1.9.36 Fowlsheugh SPA: Guillemot, SEP

Table 0-1105: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	8	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	6	9	15	19
50%	0	0	1	1	1	2	5	7	12	19	24
60%	0	1	1	1	1	3	6	8	14	23	28
70%	0	1	1	1	2	3	7	10	16	26	33
80%	0	1	1	2	2	4	8	11	19	30	38
90%	0	1	1	2	2	4	8	13	21	34	42
100%	0	1	1	2	2	5	9	14	24	38	47

Table 0-1106: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	0	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	11	18	23
80%	0	1	1	1	1	3	5	8	13	21	26
90%	0	1	1	1	1	3	6	9	15	23	29
100%	0	1	1	1	2	3	7	10	16	26	33

Table 0-1107: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	0	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	10	12
70%	0	0	0	1	1	1	3	4	7	11	14
80%	0	0	0	1	1	2	3	5	8	13	16
90%	0	0	1	1	1	2	4	5	9	14	18
100%	0	0	1	1	1	2	4	6	10	16	20

11.1.9.37 Fowlsheugh SPA: Guillemot, SEP and DEP

Table 0-1108: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	16	23	39	63	78
20%	2	3	5	6	8	16	31	47	78	125	156
30%	2	5	7	9	12	23	47	70	117	188	235
40%	3	6	9	13	16	31	63	94	156	250	313
50%	4	8	12	16	20	39	78	117	196	313	391
60%	5	9	14	19	23	47	94	141	235	376	469
70%	5	11	16	22	27	55	110	164	274	438	548
80%	6	13	19	25	31	63	125	188	313	501	626
90%	7	14	21	28	35	70	141	211	352	563	704
100%	8	16	23	31	39	78	156	235	391	626	782

Table 0-1109: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	10	14	24	38	48
20%	1	2	3	4	5	10	19	29	48	77	96
30%	1	3	4	6	7	14	29	43	72	115	144
40%	2	4	6	8	10	19	38	57	96	153	192
50%	2	5	7	10	12	24	48	72	120	192	240
60%	3	6	9	11	14	29	57	86	144	230	287
70%	3	7	10	13	17	34	67	101	168	268	335
80%	4	8	11	15	19	38	77	115	192	307	383
90%	4	9	13	17	22	43	86	129	216	345	431
100%	5	10	14	19	24	48	96	144	240	383	479

Table 0-1110: Potential displacement (down) and mortality (across) of Fowlsheugh SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	20	25
20%	1	1	2	2	3	5	10	15	25	41	51
30%	1	2	2	3	4	8	15	23	38	61	76
40%	1	2	3	4	5	10	20	31	51	81	102
50%	1	3	4	5	6	13	25	38	64	102	127
60%	2	3	5	6	8	15	31	46	76	122	153
70%	2	4	5	7	9	18	36	53	89	143	178
80%	2	4	6	8	10	20	41	61	102	163	204
90%	2	5	7	9	11	23	46	69	115	183	229
100%	3	5	8	10	13	25	51	76	127	204	255

11.1.9.38 Troup, Pennan and Lion's Heads (TP&LH) SPA: Guillemot, DEP

Table 0-1111: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	7	11	18	22
20%	0	1	1	2	2	4	9	13	22	35	44
30%	1	1	2	3	3	7	13	20	33	53	66
40%	1	2	3	4	4	9	18	26	44	71	88
50%	1	2	3	4	6	11	22	33	55	88	110
60%	1	3	4	5	7	13	26	40	66	106	132
70%	2	3	5	6	8	15	31	46	77	124	154
80%	2	4	5	7	9	18	35	53	88	141	176
90%	2	4	6	8	10	20	40	60	99	159	199
100%	2	4	7	9	11	22	44	66	110	176	221

Table 0-1112: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	13
20%	0	1	1	1	1	3	5	8	13	21	27
30%	0	1	1	2	2	4	8	12	20	32	40
40%	1	1	2	2	3	5	11	16	27	43	54
50%	1	1	2	3	3	7	13	20	33	54	67
60%	1	2	2	3	4	8	16	24	40	64	80
70%	1	2	3	4	5	9	19	28	47	75	94
80%	1	2	3	4	5	11	21	32	54	86	107
90%	1	2	4	5	6	12	24	36	60	96	121
100%	1	3	4	5	7	13	27	40	67	107	134

Table 0-1113: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	4	6	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	11	17	21
40%	0	1	1	1	1	3	6	8	14	23	28
50%	0	1	1	1	2	4	7	11	18	28	35
60%	0	1	1	2	2	4	8	13	21	34	42
70%	0	1	1	2	2	5	10	15	25	39	49
80%	1	1	2	2	3	6	11	17	28	45	56
90%	1	1	2	3	3	6	13	19	32	51	63
100%	1	1	2	3	4	7	14	21	35	56	70

11.1.9.39 Troup, Pennan and Lion's Heads (TP&LH) SPA: Guillemot, SEP

Table 0-1114: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1115: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	5	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-1116: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

11.1.9.40 Troup, Pennan and Lion's Heads (TP&LH) SPA: Guillemot, SEP and DEP

Table 0-1117: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	19	23
20%	0	1	1	2	2	5	9	14	23	38	47
30%	1	1	2	3	4	7	14	21	35	56	70
40%	1	2	3	4	5	9	19	28	47	75	94
50%	1	2	4	5	6	12	23	35	59	94	117
60%	1	3	4	6	7	14	28	42	70	113	141
70%	2	3	5	7	8	16	33	49	82	131	164
80%	2	4	6	8	9	19	38	56	94	150	188
90%	2	4	6	8	11	21	42	63	106	169	211
100%	2	5	7	9	12	23	47	70	117	188	235

Table 0-1118: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	14
20%	0	1	1	1	1	3	6	9	14	23	29
30%	0	1	1	2	2	4	9	13	22	34	43
40%	1	1	2	2	3	6	11	17	29	46	57
50%	1	1	2	3	4	7	14	22	36	57	72
60%	1	2	3	3	4	9	17	26	43	69	86
70%	1	2	3	4	5	10	20	30	50	80	101
80%	1	2	3	5	6	11	23	34	57	92	115
90%	1	3	4	5	6	13	26	39	65	103	129
100%	1	3	4	6	7	14	29	43	72	115	144

Table 0-1119: Potential displacement (down) and mortality (across) of TP&LH SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	15
30%	0	0	1	1	1	2	5	7	11	18	23
40%	0	1	1	1	2	3	6	9	15	24	31
50%	0	1	1	2	2	4	8	11	19	31	38
60%	0	1	1	2	2	5	9	14	23	37	46
70%	1	1	2	2	3	5	11	16	27	43	53
80%	1	1	2	2	3	6	12	18	31	49	61
90%	1	1	2	3	3	7	14	21	34	55	69
100%	1	2	2	3	4	8	15	23	38	61	76

11.1.9.41 East Caithness Cliffs (ECC) SPA: Guillemot, DEP

Table 0-1120: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	9	11	23	45	68	113	180	225
20%	5	9	14	18	23	45	90	135	225	361	451
30%	7	14	20	27	34	68	135	203	338	541	676
40%	9	18	27	36	45	90	180	271	451	722	902
50%	11	23	34	45	56	113	225	338	564	902	1127
60%	14	27	41	54	68	135	271	406	676	1082	1353
70%	16	32	47	63	79	158	316	474	789	1263	1578
80%	18	36	54	72	90	180	361	541	902	1443	1804
90%	20	41	61	81	101	203	406	609	1015	1624	2029
100%	23	45	68	90	113	225	451	676	1127	1804	2255

Table 0-1121: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	5	7	14	27	41	68	110	137
20%	3	5	8	11	14	27	55	82	137	219	274
30%	4	8	12	16	21	41	82	123	205	329	411
40%	5	11	16	22	27	55	110	164	274	438	548
50%	7	14	21	27	34	68	137	205	342	548	685
60%	8	16	25	33	41	82	164	247	411	657	822
70%	10	19	29	38	48	96	192	288	479	767	959
80%	11	22	33	44	55	110	219	329	548	877	1096
90%	12	25	37	49	62	123	247	370	616	986	1233
100%	14	27	41	55	68	137	274	411	685	1096	1370

Table 0-1122: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	14	22	36	58	72
20%	1	3	4	6	7	14	29	43	72	115	144
30%	2	4	6	9	11	22	43	65	108	173	216
40%	3	6	9	12	14	29	58	86	144	230	288
50%	4	7	11	14	18	36	72	108	180	288	360
60%	4	9	13	17	22	43	86	130	216	346	432
70%	5	10	15	20	25	50	101	151	252	403	504
80%	6	12	17	23	29	58	115	173	288	461	576
90%	6	13	19	26	32	65	130	194	324	518	648
100%	7	14	22	29	36	72	144	216	360	576	720

11.1.9.42 East Caithness Cliffs (ECC) SPA: Guillemot, SEP

Table 0-1123: Potential displacement (down) and mortality (across) of ECC SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	14
20%	0	1	1	1	1	3	6	9	14	23	29
30%	0	1	1	2	2	4	9	13	22	35	43
40%	1	1	2	2	3	6	12	17	29	46	58
50%	1	1	2	3	4	7	14	22	36	58	72
60%	1	2	3	3	4	9	17	26	43	69	87
70%	1	2	3	4	5	10	20	30	51	81	101
80%	1	2	3	5	6	12	23	35	58	92	115
90%	1	3	4	5	6	13	26	39	65	104	130
100%	1	3	4	6	7	14	29	43	72	115	144

Table 0-1124: Potential displacement (down) and mortality (across) of ECC SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	1	3	6	9	15	24	30
40%	0	1	1	2	2	4	8	12	20	32	40
50%	0	1	1	2	2	5	10	15	25	40	50
60%	1	1	2	2	3	6	12	18	30	48	60
70%	1	1	2	3	3	7	14	21	35	56	70
80%	1	2	2	3	4	8	16	24	40	64	80
90%	1	2	3	4	4	9	18	27	45	72	90
100%	1	2	3	4	5	10	20	30	50	80	100

Table 0-1125: Potential displacement (down) and mortality (across) of ECC SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	5	9	15	18
40%	0	0	1	1	1	2	5	7	12	19	24
50%	0	1	1	1	2	3	6	9	15	24	30
60%	0	1	1	1	2	4	7	11	18	29	36
70%	0	1	1	2	2	4	9	13	21	34	43
80%	0	1	1	2	2	5	10	15	24	39	49
90%	1	1	2	2	3	5	11	16	27	44	55
100%	1	1	2	2	3	6	12	18	30	49	61

11.1.9.43 East Caithness Cliffs (ECC) SPA: Guillemot, SEP and DEP

Table 0-1126: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	2	5	7	10	12	24	48	72	120	192	240
20%	5	10	14	19	24	48	96	144	240	384	480
30%	7	14	22	29	36	72	144	216	360	576	720
40%	10	19	29	38	48	96	192	288	480	768	960
50%	12	24	36	48	60	120	240	360	600	960	1200
60%	14	29	43	58	72	144	288	432	720	1152	1440
70%	17	34	50	67	84	168	336	504	840	1344	1680
80%	19	38	58	77	96	192	384	576	960	1536	1919
90%	22	43	65	86	108	216	432	648	1080	1728	2159
100%	24	48	72	96	120	240	480	720	1200	1919	2399

Table 0-1127: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	3	4	6	7	15	29	44	73	118	147
20%	3	6	9	12	15	29	59	88	147	235	294
30%	4	9	13	18	22	44	88	132	220	353	441
40%	6	12	18	24	29	59	118	176	294	470	588
50%	7	15	22	29	37	73	147	220	367	588	735
60%	9	18	26	35	44	88	176	264	441	705	882
70%	10	21	31	41	51	103	206	309	514	823	1029
80%	12	24	35	47	59	118	235	353	588	940	1176
90%	13	26	40	53	66	132	264	397	661	1058	1322
100%	15	29	44	59	73	147	294	441	735	1176	1469

Table 0-1128: Potential displacement (down) and mortality (across) of ECC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	16	23	39	62	78
20%	2	3	5	6	8	16	31	47	78	125	156
30%	2	5	7	9	12	23	47	70	117	187	234
40%	3	6	9	12	16	31	62	94	156	250	312
50%	4	8	12	16	20	39	78	117	195	312	390
60%	5	9	14	19	23	47	94	141	234	375	469
70%	5	11	16	22	27	55	109	164	273	437	547
80%	6	12	19	25	31	62	125	187	312	500	625
90%	7	14	21	28	35	70	141	211	351	562	703
100%	8	16	23	31	39	78	156	234	390	625	781

11.1.9.44 East Caithness Cliffs (ECC) SPA: Razorbill, DEP

Table 0-1129: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	4	6	10	12
30%	0	0	1	1	1	2	4	6	9	15	19
40%	0	0	1	1	1	2	5	7	12	20	25
50%	0	1	1	1	2	3	6	9	15	25	31
60%	0	1	1	1	2	4	7	11	19	30	37
70%	0	1	1	2	2	4	9	13	22	35	43
80%	0	1	1	2	2	5	10	15	25	39	49
90%	1	1	2	2	3	6	11	17	28	44	56
100%	1	1	2	2	3	6	12	19	31	49	62

Table 0-1130: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	3	6	9	12
40%	0	0	0	1	1	2	3	5	8	12	16
50%	0	0	1	1	1	2	4	6	10	16	19
60%	0	0	1	1	1	2	5	7	12	19	23
70%	0	1	1	1	1	3	5	8	14	22	27
80%	0	1	1	1	2	3	6	9	16	25	31
90%	0	1	1	1	2	3	7	10	17	28	35
100%	0	1	1	2	2	4	8	12	19	31	39

Table 0-1131: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	7
40%	0	0	0	0	0	1	2	3	4	7	9
50%	0	0	0	0	1	1	2	3	5	9	11
60%	0	0	0	1	1	1	3	4	7	10	13
70%	0	0	0	1	1	2	3	5	8	12	15
80%	0	0	1	1	1	2	3	5	9	14	17
90%	0	0	1	1	1	2	4	6	10	16	20
100%	0	0	1	1	1	2	4	7	11	17	22

Table 0-1132: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	7	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	5	9	15	18
50%	0	0	1	1	1	2	5	7	11	18	23
60%	0	1	1	1	1	3	5	8	14	22	27
70%	0	1	1	1	2	3	6	10	16	26	32
80%	0	1	1	1	2	4	7	11	18	29	37
90%	0	1	1	2	2	4	8	12	21	33	41
100%	0	1	1	2	2	5	9	14	23	37	46

Table 0-1133: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	4	7	9
40%	0	0	0	0	1	1	2	3	6	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	1	1	1	2	3	5	9	14	17
70%	0	0	1	1	1	2	4	6	10	16	20
80%	0	0	1	1	1	2	5	7	11	18	23
90%	0	1	1	1	1	3	5	8	13	21	26
100%	0	1	1	1	1	3	6	9	14	23	29

Table 0-1134: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-1135: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	7	8
40%	0	0	0	0	1	1	2	3	5	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	0	1	1	2	3	5	8	13	16
70%	0	0	1	1	1	2	4	6	10	15	19
80%	0	0	1	1	1	2	4	7	11	18	22
90%	0	0	1	1	1	2	5	7	12	20	25
100%	0	1	1	1	1	3	5	8	14	22	27

Table 0-1136: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	8	9
80%	0	0	0	0	1	1	2	3	5	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	13

Table 0-1137: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	1	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1138: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	11	13
20%	0	1	1	1	1	3	5	8	13	22	27
30%	0	1	1	2	2	4	8	12	20	32	40
40%	1	1	2	2	3	5	11	16	27	43	54
50%	1	1	2	3	3	7	13	20	34	54	67
60%	1	2	2	3	4	8	16	24	40	65	81
70%	1	2	3	4	5	9	19	28	47	76	94
80%	1	2	3	4	5	11	22	32	54	86	108
90%	1	2	4	5	6	12	24	36	61	97	121
100%	1	3	4	5	7	13	27	40	67	108	135

Table 0-1139: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	10	16	26	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	10	15	24	39	49
70%	1	1	2	2	3	6	11	17	28	45	57
80%	1	1	2	3	3	6	13	19	32	52	65
90%	1	1	2	3	4	7	15	22	36	58	73
100%	1	2	2	3	4	8	16	24	40	65	81

Table 0-1140: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	7	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	20
60%	0	0	1	1	1	2	5	7	12	20	24
70%	0	1	1	1	1	3	6	9	14	23	28
80%	0	1	1	1	2	3	7	10	16	26	33
90%	0	1	1	1	2	4	7	11	18	29	37
100%	0	1	1	2	2	4	8	12	20	33	41

11.1.9.45 East Caithness Cliffs (ECC) SPA: Razorbill, SEP

Table 0-1141: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	11
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	13	16
100%	0	0	1	1	1	2	4	5	9	14	18

Table 0-1142: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	7	9
80%	0	0	0	0	1	1	2	3	5	8	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	13

Table 0-1143: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	6	7
90%	0	0	0	0	0	1	2	2	4	6	8
100%	0	0	0	0	0	1	2	3	4	7	9

Table 0-1144: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	2	3	5	8	12	15
50%	0	0	1	1	1	2	4	6	9	15	19
60%	0	0	1	1	1	2	5	7	11	18	23
70%	0	1	1	1	1	3	5	8	13	21	26
80%	0	1	1	1	2	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	34
100%	0	1	1	2	2	4	8	11	19	30	38

Table 0-1145: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	12
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	19
90%	0	0	1	1	1	2	4	6	10	17	21
100%	0	0	1	1	1	2	5	7	12	19	23

Table 0-1146: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1147: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	4	7	9
80%	0	0	0	0	1	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	6	9	11
100%	0	0	0	1	1	1	3	4	6	10	13

Table 0-1148: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1149: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1150: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	7
20%	0	0	0	1	1	1	3	4	7	11	14
30%	0	0	1	1	1	2	4	6	10	16	20
40%	0	1	1	1	1	3	5	8	14	22	27
50%	0	1	1	1	2	3	7	10	17	27	34
60%	0	1	1	2	2	4	8	12	20	33	41
70%	0	1	1	2	2	5	10	14	24	38	48
80%	1	1	2	2	3	5	11	16	27	44	54
90%	1	1	2	2	3	6	12	18	31	49	61
100%	1	1	2	3	3	7	14	20	34	54	68

Table 0-1151: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	6	10	13
40%	0	0	1	1	1	2	3	5	9	14	17
50%	0	0	1	1	1	2	4	6	11	17	21
60%	0	1	1	1	1	3	5	8	13	20	26
70%	0	1	1	1	1	3	6	9	15	24	30
80%	0	1	1	1	2	3	7	10	17	27	34
90%	0	1	1	2	2	4	8	12	19	31	38
100%	0	1	1	2	2	4	9	13	21	34	43

Table 0-1152: Potential displacement (down) and mortality (across) of ECC SPA razorbill in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	4	6	7
80%	0	0	0	0	0	1	2	3	4	7	8
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	8	11

11.1.9.46 East Caithness Cliffs (ECC) SPA: Razorbill, SEP and DEP

Table 0-1153: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	24
40%	0	1	1	1	2	3	6	10	16	25	32
50%	0	1	1	2	2	4	8	12	20	32	40
60%	0	1	1	2	2	5	10	14	24	38	48
70%	1	1	2	2	3	6	11	17	28	44	56
80%	1	1	2	3	3	6	13	19	32	51	63
90%	1	1	2	3	4	7	14	21	36	57	71
100%	1	2	2	3	4	8	16	24	40	63	79

Table 0-1154: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	16
40%	0	0	1	1	1	2	4	6	10	17	21
50%	0	1	1	1	1	3	5	8	13	21	26
60%	0	1	1	1	2	3	6	9	16	25	31
70%	0	1	1	1	2	4	7	11	18	29	36
80%	0	1	1	2	2	4	8	12	21	33	42
90%	0	1	1	2	2	5	9	14	23	37	47
100%	1	1	2	2	3	5	10	16	26	42	52

Table 0-1155: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	15	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	30

Table 0-1156: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	8
20%	0	0	1	1	1	2	3	5	8	13	17
30%	0	1	1	1	1	3	5	8	13	20	25
40%	0	1	1	1	2	3	7	10	17	27	33
50%	0	1	1	2	2	4	8	13	21	33	42
60%	1	1	2	2	3	5	10	15	25	40	50
70%	1	1	2	2	3	6	12	18	29	47	59
80%	1	1	2	3	3	7	13	20	33	54	67
90%	1	2	2	3	4	8	15	23	38	60	75
100%	1	2	3	3	4	8	17	25	42	67	84

Table 0-1157: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	16
40%	0	0	1	1	1	2	4	6	10	17	21
50%	0	1	1	1	1	3	5	8	13	21	26
60%	0	1	1	1	2	3	6	9	16	25	31
70%	0	1	1	1	2	4	7	11	18	29	36
80%	0	1	1	2	2	4	8	12	21	33	42
90%	0	1	1	2	2	5	9	14	23	37	47
100%	1	1	2	2	3	5	10	16	26	42	52

Table 0-1158: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	3	6	9	11
80%	0	0	0	1	1	1	3	4	6	10	13
90%	0	0	0	1	1	1	3	4	7	12	15
100%	0	0	0	1	1	2	3	5	8	13	16

Table 0-1159: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	4	6	10	12
40%	0	0	0	1	1	2	3	5	8	13	16
50%	0	0	1	1	1	2	4	6	10	16	20
60%	0	0	1	1	1	2	5	7	12	19	24
70%	0	1	1	1	1	3	6	8	14	22	28
80%	0	1	1	1	2	3	6	10	16	26	32
90%	0	1	1	1	2	4	7	11	18	29	36
100%	0	1	1	2	2	4	8	12	20	32	40

Table 0-1160: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	0	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	9	12
70%	0	0	0	1	1	1	3	4	7	11	14
80%	0	0	0	1	1	2	3	5	8	12	16
90%	0	0	1	1	1	2	4	5	9	14	18
100%	0	0	1	1	1	2	4	6	10	16	19

Table 0-1161: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	3	3
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	4	5

Table 0-1162: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	16	20
20%	0	1	1	2	2	4	8	12	20	32	41
30%	1	1	2	2	3	6	12	18	30	49	61
40%	1	2	2	3	4	8	16	24	41	65	81
50%	1	2	3	4	5	10	20	30	51	81	101
60%	1	2	4	5	6	12	24	37	61	97	122
70%	1	3	4	6	7	14	28	43	71	114	142
80%	2	3	5	6	8	16	32	49	81	130	162
90%	2	4	5	7	9	18	37	55	91	146	183
100%	2	4	6	8	10	20	41	61	101	162	203

Table 0-1163: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	20	25
30%	0	1	1	1	2	4	7	11	19	30	37
40%	0	1	1	2	2	5	10	15	25	40	49
50%	1	1	2	2	3	6	12	19	31	49	62
60%	1	1	2	3	4	7	15	22	37	59	74
70%	1	2	3	3	4	9	17	26	43	69	86
80%	1	2	3	4	5	10	20	30	49	79	99
90%	1	2	3	4	6	11	22	33	56	89	111
100%	1	2	4	5	6	12	25	37	62	99	124

Table 0-1164: Potential displacement (down) and mortality (across) of ECC SPA razorbill in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	1	1	1	1	3	5	8	13	20	26
60%	0	1	1	1	2	3	6	9	15	25	31
70%	0	1	1	1	2	4	7	11	18	29	36
80%	0	1	1	2	2	4	8	12	20	33	41
90%	0	1	1	2	2	5	9	14	23	37	46
100%	1	1	2	2	3	5	10	15	26	41	51

11.1.9.47 North Caithness Cliffs (NCC) SPA: Guillemot, DEP

Table 0-1165: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	10	20	30	50	80	100
20%	2	4	6	8	10	20	40	60	100	161	201
30%	3	6	9	12	15	30	60	90	151	241	301
40%	4	8	12	16	20	40	80	121	201	322	402
50%	5	10	15	20	25	50	100	151	251	402	502
60%	6	12	18	24	30	60	121	181	301	482	603
70%	7	14	21	28	35	70	141	211	352	563	703
80%	8	16	24	32	40	80	161	241	402	643	804
90%	9	18	27	36	45	90	181	271	452	724	904
100%	10	20	30	40	50	100	201	301	502	804	1005

Table 0-1166: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	2	3	6	12	18	31	49	61
20%	1	2	4	5	6	12	24	37	61	98	122
30%	2	4	5	7	9	18	37	55	92	146	183
40%	2	5	7	10	12	24	49	73	122	195	244
50%	3	6	9	12	15	31	61	92	153	244	305
60%	4	7	11	15	18	37	73	110	183	293	366
70%	4	9	13	17	21	43	85	128	214	342	427
80%	5	10	15	20	24	49	98	146	244	391	488
90%	5	11	16	22	27	55	110	165	275	439	549
100%	6	12	18	24	31	61	122	183	305	488	610

Table 0-1167: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	10	16	26	32
20%	1	1	2	3	3	6	13	19	32	51	64
30%	1	2	3	4	5	10	19	29	48	77	96
40%	1	3	4	5	6	13	26	39	64	103	128
50%	2	3	5	6	8	16	32	48	80	128	160
60%	2	4	6	8	10	19	39	58	96	154	193
70%	2	4	7	9	11	22	45	67	112	180	225
80%	3	5	8	10	13	26	51	77	128	205	257
90%	3	6	9	12	14	29	58	87	144	231	289
100%	3	6	10	13	16	32	64	96	160	257	321

11.1.9.48 North Caithness Cliffs (NCC) SPA: Guillemot, SEP

Table 0-1168: Potential displacement (down) and mortality (across) of NCC SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	1	1	1	3	4	6	10	13
30%	0	0	1	1	1	2	4	6	10	15	19
40%	0	1	1	1	1	3	5	8	13	21	26
50%	0	1	1	1	2	3	6	10	16	26	32
60%	0	1	1	2	2	4	8	12	19	31	39
70%	0	1	1	2	2	5	9	14	23	36	45
80%	1	1	2	2	3	5	10	15	26	41	51
90%	1	1	2	2	3	6	12	17	29	46	58
100%	1	1	2	3	3	6	13	19	32	51	64

Table 0-1169: Potential displacement (down) and mortality (across) of NCC SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	11	13
40%	0	0	1	1	1	2	4	5	9	14	18
50%	0	0	1	1	1	2	4	7	11	18	22
60%	0	1	1	1	1	3	5	8	13	21	27
70%	0	1	1	1	2	3	6	9	16	25	31
80%	0	1	1	1	2	4	7	11	18	28	36
90%	0	1	1	2	2	4	8	12	20	32	40
100%	0	1	1	2	2	4	9	13	22	36	44

Table 0-1170: Potential displacement (down) and mortality (across) of NCC SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	7	8
40%	0	0	0	0	1	1	2	3	5	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	0	1	1	2	3	5	8	13	16
70%	0	0	1	1	1	2	4	6	9	15	19
80%	0	0	1	1	1	2	4	7	11	17	22
90%	0	0	1	1	1	2	5	7	12	20	24
100%	0	1	1	1	1	3	5	8	14	22	27

11.1.9.49 North Caithness Cliffs (NCC) SPA: Guillemot, SEP and DEP

Table 0-1171: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	3	4	5	11	21	32	53	86	107
20%	2	4	6	9	11	21	43	64	107	171	214
30%	3	6	10	13	16	32	64	96	160	257	321
40%	4	9	13	17	21	43	86	128	214	342	428
50%	5	11	16	21	27	53	107	160	267	428	535
60%	6	13	19	26	32	64	128	192	321	513	642
70%	7	15	22	30	37	75	150	225	374	599	748
80%	9	17	26	34	43	86	171	257	428	684	855
90%	10	19	29	38	48	96	192	289	481	770	962
100%	11	21	32	43	53	107	214	321	535	855	1069

Table 0-1172: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	3	7	13	20	33	52	65
20%	1	3	4	5	7	13	26	39	65	105	131
30%	2	4	6	8	10	20	39	59	98	157	196
40%	3	5	8	10	13	26	52	79	131	210	262
50%	3	7	10	13	16	33	65	98	164	262	327
60%	4	8	12	16	20	39	79	118	196	314	393
70%	5	9	14	18	23	46	92	138	229	367	458
80%	5	10	16	21	26	52	105	157	262	419	524
90%	6	12	18	24	29	59	118	177	295	471	589
100%	7	13	20	26	33	65	131	196	327	524	655

Table 0-1173: Potential displacement (down) and mortality (across) of NCC SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	28	35
20%	1	1	2	3	3	7	14	21	35	56	70
30%	1	2	3	4	5	10	21	31	52	84	104
40%	1	3	4	6	7	14	28	42	70	111	139
50%	2	3	5	7	9	17	35	52	87	139	174
60%	2	4	6	8	10	21	42	63	104	167	209
70%	2	5	7	10	12	24	49	73	122	195	244
80%	3	6	8	11	14	28	56	84	139	223	278
90%	3	6	9	13	16	31	63	94	157	251	313
100%	3	7	10	14	17	35	70	104	174	278	348

11.1.9.50 Hoy SPA: Red-throated diver, DEP

Table 0-1174: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1175: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1176: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1177: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1178: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1179: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1180: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1181: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1182: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1183: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1184: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1185: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.51 Hoy SPA: Red-throated diver, SEP

Table 0-1186: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1187: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1188: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1189: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1190: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1191: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1192: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1193: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	2

Table 0-1194: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1195: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	2	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-1196: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1197: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

11.1.9.52 Hoy SPA: Red-throated diver, SEP and DEP

Table 0-1198: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1199: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1200: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1201: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1202: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1203: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1204: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	3	3
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	4	5

Table 0-1205: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1206: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1207: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	4
80%	0	0	0	0	0	1	1	2	3	4	5
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1208: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	2	3

Table 0-1209: Potential displacement (down) and mortality (across) of Hoy SPA red-throated diver in DEP+4km and SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

11.1.9.53 Marwick Head SPA: Guillemot, DEP

Table 0-1210: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	20	25
20%	0	1	1	2	2	5	10	15	25	39	49
30%	1	1	2	3	4	7	15	22	37	59	74
40%	1	2	3	4	5	10	20	29	49	78	98
50%	1	2	4	5	6	12	25	37	61	98	123
60%	1	3	4	6	7	15	29	44	74	118	147
70%	2	3	5	7	9	17	34	51	86	137	172
80%	2	4	6	8	10	20	39	59	98	157	196
90%	2	4	7	9	11	22	44	66	110	176	221
100%	2	5	7	10	12	25	49	74	123	196	245

Table 0-1211: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	1	3	4	7	12	15
20%	0	1	1	1	1	3	6	9	15	24	30
30%	0	1	1	2	2	4	9	13	22	36	45
40%	1	1	2	2	3	6	12	18	30	48	60
50%	1	1	2	3	4	7	15	22	37	60	74
60%	1	2	3	4	4	9	18	27	45	71	89
70%	1	2	3	4	5	10	21	31	52	83	104
80%	1	2	4	5	6	12	24	36	60	95	119
90%	1	3	4	5	7	13	27	40	67	107	134
100%	1	3	4	6	7	15	30	45	74	119	149

Table 0-1212: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	13	16
30%	0	0	1	1	1	2	5	7	12	19	23
40%	0	1	1	1	2	3	6	9	16	25	31
50%	0	1	1	2	2	4	8	12	20	31	39
60%	0	1	1	2	2	5	9	14	23	38	47
70%	1	1	2	2	3	5	11	16	27	44	55
80%	1	1	2	3	3	6	13	19	31	50	63
90%	1	1	2	3	4	7	14	21	35	56	70
100%	1	2	2	3	4	8	16	23	39	63	78

11.1.9.54 Marwick Head SPA: Guillemot, SEP

Table 0-1213: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	8	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	1	1	1	3	4	6	10	13
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	13	16

Table 0-1214: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-1215: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	5
80%	0	0	0	0	0	1	1	2	3	4	5
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	5	7

11.1.9.55 Marwick Head SPA: Guillemot, SEP and DEP

Table 0-1216: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	21	26
20%	1	1	2	2	3	5	10	16	26	42	52
30%	1	2	2	3	4	8	16	23	39	63	78
40%	1	2	3	4	5	10	21	31	52	83	104
50%	1	3	4	5	7	13	26	39	65	104	130
60%	2	3	5	6	8	16	31	47	78	125	156
70%	2	4	5	7	9	18	37	55	91	146	183
80%	2	4	6	8	10	21	42	63	104	167	209
90%	2	5	7	9	12	23	47	70	117	188	235
100%	3	5	8	10	13	26	52	78	130	209	261

Table 0-1217: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	6	10	16	26	32
30%	0	1	1	2	2	5	10	14	24	38	48
40%	1	1	2	3	3	6	13	19	32	51	64
50%	1	2	2	3	4	8	16	24	40	64	80
60%	1	2	3	4	5	10	19	29	48	77	96
70%	1	2	3	4	6	11	22	34	56	89	112
80%	1	3	4	5	6	13	26	38	64	102	128
90%	1	3	4	6	7	14	29	43	72	115	144
100%	2	3	5	6	8	16	32	48	80	128	160

Table 0-1218: Potential displacement (down) and mortality (across) of Marwick Head SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	8
20%	0	0	1	1	1	2	3	5	8	14	17
30%	0	1	1	1	1	3	5	8	13	20	25
40%	0	1	1	1	2	3	7	10	17	27	34
50%	0	1	1	2	2	4	8	13	21	34	42
60%	1	1	2	2	3	5	10	15	25	41	51
70%	1	1	2	2	3	6	12	18	30	48	59
80%	1	1	2	3	3	7	14	20	34	54	68
90%	1	2	2	3	4	8	15	23	38	61	76
100%	1	2	3	3	4	8	17	25	42	68	85

11.1.9.56 West Westray SPA: Guillemot, DEP

Table 0-1219: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	1	2	3	4	7	14	21	36	57	71
20%	1	3	4	6	7	14	28	43	71	114	142
30%	2	4	6	9	11	21	43	64	107	171	213
40%	3	6	9	11	14	28	57	85	142	227	284
50%	4	7	11	14	18	36	71	107	178	284	355
60%	4	9	13	17	21	43	85	128	213	341	426
70%	5	10	15	20	25	50	100	149	249	398	498
80%	6	11	17	23	28	57	114	171	284	455	569
90%	6	13	19	26	32	64	128	192	320	512	640
100%	7	14	21	28	36	71	142	213	355	569	711

Table 0-1220: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	4	9	13	22	35	43
20%	1	2	3	3	4	9	17	26	43	69	86
30%	1	3	4	5	6	13	26	39	65	104	130
40%	2	3	5	7	9	17	35	52	86	138	173
50%	2	4	6	9	11	22	43	65	108	173	216
60%	3	5	8	10	13	26	52	78	130	207	259
70%	3	6	9	12	15	30	60	91	151	242	302
80%	3	7	10	14	17	35	69	104	173	276	345
90%	4	8	12	16	19	39	78	117	194	311	389
100%	4	9	13	17	22	43	86	130	216	345	432

Table 0-1221: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	11	18	23
20%	0	1	1	2	2	5	9	14	23	36	45
30%	1	1	2	3	3	7	14	20	34	54	68
40%	1	2	3	4	5	9	18	27	45	73	91
50%	1	2	3	5	6	11	23	34	57	91	113
60%	1	3	4	5	7	14	27	41	68	109	136
70%	2	3	5	6	8	16	32	48	79	127	159
80%	2	4	5	7	9	18	36	54	91	145	182
90%	2	4	6	8	10	20	41	61	102	163	204
100%	2	5	7	9	11	23	45	68	113	182	227

11.1.9.57 West Westray SPA: Guillemot, SEP

Table 0-1222: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	5
20%	0	0	0	0	0	1	2	3	5	7	9
30%	0	0	0	1	1	1	3	4	7	11	14
40%	0	0	1	1	1	2	4	5	9	15	18
50%	0	0	1	1	1	2	5	7	11	18	23
60%	0	1	1	1	1	3	5	8	14	22	27
70%	0	1	1	1	2	3	6	10	16	25	32
80%	0	1	1	1	2	4	7	11	18	29	36
90%	0	1	1	2	2	4	8	12	20	33	41
100%	0	1	1	2	2	5	9	14	23	36	46

Table 0-1223: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	8	9
40%	0	0	0	1	1	1	3	4	6	10	13
50%	0	0	0	1	1	2	3	5	8	13	16
60%	0	0	1	1	1	2	4	6	9	15	19
70%	0	0	1	1	1	2	4	7	11	18	22
80%	0	1	1	1	1	3	5	8	13	20	25
90%	0	1	1	1	1	3	6	8	14	23	28
100%	0	1	1	1	2	3	6	9	16	25	31

Table 0-1224: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	0	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	3	6	9	12
70%	0	0	0	1	1	1	3	4	7	11	13
80%	0	0	0	1	1	2	3	5	8	12	15
90%	0	0	1	1	1	2	3	5	9	14	17
100%	0	0	1	1	1	2	4	6	10	15	19

11.1.9.58 West Westray SPA: Guillemot, SEP and DEP

Table 0-1225: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	1	2	2	3	4	8	15	23	38	61	76
20%	2	3	5	6	8	15	30	45	76	121	151
30%	2	5	7	9	11	23	45	68	113	182	227
40%	3	6	9	12	15	30	61	91	151	242	303
50%	4	8	11	15	19	38	76	113	189	303	378
60%	5	9	14	18	23	45	91	136	227	363	454
70%	5	11	16	21	26	53	106	159	265	424	529
80%	6	12	18	24	30	61	121	182	303	484	605
90%	7	14	20	27	34	68	136	204	340	545	681
100%	8	15	23	30	38	76	151	227	378	605	756

Table 0-1226: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	2	2	5	9	14	23	37	46
20%	1	2	3	4	5	9	19	28	46	74	93
30%	1	3	4	6	7	14	28	42	69	111	139
40%	2	4	6	7	9	19	37	56	93	148	185
50%	2	5	7	9	12	23	46	69	116	185	232
60%	3	6	8	11	14	28	56	83	139	222	278
70%	3	6	10	13	16	32	65	97	162	259	324
80%	4	7	11	15	19	37	74	111	185	296	371
90%	4	8	13	17	21	42	83	125	208	333	417
100%	5	9	14	19	23	46	93	139	232	371	463

Table 0-1227: Potential displacement (down) and mortality (across) of West Westray SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	5	7	12	20	25
20%	0	1	1	2	2	5	10	15	25	39	49
30%	1	1	2	3	4	7	15	22	37	59	74
40%	1	2	3	4	5	10	20	30	49	79	98
50%	1	2	4	5	6	12	25	37	62	98	123
60%	1	3	4	6	7	15	30	44	74	118	148
70%	2	3	5	7	9	17	34	52	86	138	172
80%	2	4	6	8	10	20	39	59	98	158	197
90%	2	4	7	9	11	22	44	66	111	177	222
100%	2	5	7	10	12	25	49	74	123	197	246

11.1.9.59 Fair Isle SPA: Guillemot, DEP

Table 0-1228: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	5	8	13	22	27
20%	1	1	2	2	3	5	11	16	27	43	54
30%	1	2	2	3	4	8	16	24	40	65	81
40%	1	2	3	4	5	11	22	32	54	86	108
50%	1	3	4	5	7	13	27	40	67	108	135
60%	2	3	5	6	8	16	32	49	81	129	162
70%	2	4	6	8	9	19	38	57	94	151	189
80%	2	4	6	9	11	22	43	65	108	173	216
90%	2	5	7	10	12	24	49	73	121	194	243
100%	3	5	8	11	13	27	54	81	135	216	270

Table 0-1229: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	1	1	2	3	5	8	13	16
20%	0	1	1	1	2	3	7	10	16	26	33
30%	0	1	1	2	2	5	10	15	25	39	49
40%	1	1	2	3	3	7	13	20	33	52	66
50%	1	2	2	3	4	8	16	25	41	66	82
60%	1	2	3	4	5	10	20	29	49	79	98
70%	1	2	3	5	6	11	23	34	57	92	115
80%	1	3	4	5	7	13	26	39	66	105	131
90%	1	3	4	6	7	15	29	44	74	118	147
100%	2	3	5	7	8	16	33	49	82	131	164

Table 0-1230: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	4	7	9
20%	0	0	1	1	1	2	3	5	9	14	17
30%	0	1	1	1	1	3	5	8	13	21	26
40%	0	1	1	1	2	3	7	10	17	28	34
50%	0	1	1	2	2	4	9	13	22	34	43
60%	1	1	2	2	3	5	10	15	26	41	52
70%	1	1	2	2	3	6	12	18	30	48	60
80%	1	1	2	3	3	7	14	21	34	55	69
90%	1	2	2	3	4	8	15	23	39	62	77
100%	1	2	3	3	4	9	17	26	43	69	86

11.1.9.60 Fair Isle SPA: Guillemot, SEP

Table 0-1231: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	16
100%	0	0	1	1	1	2	3	5	9	14	17

Table 0-1232: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	0	1	1	2	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	1	2	4	6	7
70%	0	0	0	0	0	1	2	3	4	7	8
80%	0	0	0	0	0	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	5	9	11
100%	0	0	0	0	1	1	2	4	6	10	12

Table 0-1233: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	1	1	2	3	4	5
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	3	5	7
100%	0	0	0	0	0	1	1	2	4	6	7

11.1.9.61 Fair Isle SPA: Guillemot, SEP and DEP

Table 0-1234: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	1	3	6	9	14	23	29
20%	1	1	2	2	3	6	11	17	29	46	57
30%	1	2	3	3	4	9	17	26	43	69	86
40%	1	2	3	5	6	11	23	34	57	92	115
50%	1	3	4	6	7	14	29	43	72	115	143
60%	2	3	5	7	9	17	34	52	86	138	172
70%	2	4	6	8	10	20	40	60	100	161	201
80%	2	5	7	9	11	23	46	69	115	184	229
90%	3	5	8	10	13	26	52	77	129	207	258
100%	3	6	9	11	14	29	57	86	143	229	287

Table 0-1235: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	5	9	14	18
20%	0	1	1	1	2	4	7	11	18	28	35
30%	1	1	2	2	3	5	11	16	26	42	53
40%	1	1	2	3	4	7	14	21	35	56	70
50%	1	2	3	4	4	9	18	26	44	70	88
60%	1	2	3	4	5	11	21	32	53	84	105
70%	1	2	4	5	6	12	25	37	61	98	123
80%	1	3	4	6	7	14	28	42	70	112	141
90%	2	3	5	6	8	16	32	47	79	126	158
100%	2	4	5	7	9	18	35	53	88	141	176

Table 0-1236: Potential displacement (down) and mortality (across) of Fair Isle SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	7	9
20%	0	0	1	1	1	2	4	6	9	15	19
30%	0	1	1	1	1	3	6	8	14	22	28
40%	0	1	1	1	2	4	7	11	19	30	37
50%	0	1	1	2	2	5	9	14	23	37	47
60%	1	1	2	2	3	6	11	17	28	45	56
70%	1	1	2	3	3	7	13	20	33	52	65
80%	1	1	2	3	4	7	15	22	37	60	75
90%	1	2	3	3	4	8	17	25	42	67	84
100%	1	2	3	4	5	9	19	28	47	75	93

11.1.9.62 Noss SPA: Gannet, DEP

Table 0-1237: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	11
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	13	16
100%	0	0	1	1	1	2	4	5	9	14	18

Table 0-1238: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-1239: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1240: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-1241: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	1	1	1	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1242: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1243: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	11
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	18
90%	0	0	1	1	1	2	4	6	10	17	21
100%	0	0	1	1	1	2	5	7	11	18	23

Table 0-1244: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	7	9
80%	0	0	0	0	1	1	2	3	5	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	13

Table 0-1245: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	4
80%	0	0	0	0	0	1	1	2	3	4	5
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	5	6

11.1.9.63 Noss SPA: Gannet, SEP

Table 0-1246: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	8	9
80%	0	0	0	0	1	1	2	3	5	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1247: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	4	6
70%	0	0	0	0	0	1	1	2	3	5	7
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	3	4	7	8
100%	0	0	0	0	0	1	2	3	5	7	9

Table 0-1248: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	6
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1249: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	2

Table 0-1250: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1251: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1252: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	8	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-1253: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	5	6
70%	0	0	0	0	0	1	1	2	3	6	7
80%	0	0	0	0	0	1	2	2	4	6	8
90%	0	0	0	0	0	1	2	3	4	7	9
100%	0	0	0	0	0	1	2	3	5	8	10

Table 0-1254: Potential displacement (down) and mortality (across) of Noss SPA gannet in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	6
100%	0	0	0	0	0	1	1	2	3	5	6

11.1.9.64 Noss SPA: Gannet, SEP and DEP

Table 0-1255: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	16
60%	0	0	1	1	1	2	4	6	9	15	19
70%	0	0	1	1	1	2	4	7	11	17	22
80%	0	0	1	1	1	2	5	7	12	20	25
90%	0	1	1	1	1	3	6	8	14	22	28
100%	0	1	1	1	2	3	6	9	16	25	31

Table 0-1256: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	6	8
50%	0	0	0	0	1	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	10	12
70%	0	0	0	1	1	1	3	4	7	11	14
80%	0	0	0	1	1	2	3	5	8	13	16
90%	0	0	1	1	1	2	4	5	9	15	18
100%	0	0	1	1	1	2	4	6	10	16	20

Table 0-1257: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	0	1	1	2	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	1	2	4	6	7
70%	0	0	0	0	0	1	2	3	4	7	8
80%	0	0	0	0	0	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	5	9	11
100%	0	0	0	0	1	1	2	4	6	10	12

Table 0-1258: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	4	5
80%	0	0	0	0	0	1	1	2	3	4	6
90%	0	0	0	0	0	1	1	2	3	5	6
100%	0	0	0	0	0	1	1	2	3	6	7

Table 0-1259: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1260: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1261: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	2	3	5	8	12	15
50%	0	0	1	1	1	2	4	6	10	15	19
60%	0	0	1	1	1	2	5	7	11	18	23
70%	0	1	1	1	1	3	5	8	13	21	27
80%	0	1	1	1	2	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	34
100%	0	1	1	2	2	4	8	11	19	30	38

Table 0-1262: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	12
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	19
90%	0	0	1	1	1	2	4	6	10	17	21
100%	0	0	1	1	1	2	5	7	12	19	23

Table 0-1263: Potential displacement (down) and mortality (across) of Noss SPA gannet in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	6
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	4	7	9
80%	0	0	0	0	1	1	2	3	5	8	10
90%	0	0	0	0	1	1	2	3	6	9	11
100%	0	0	0	1	1	1	3	4	6	10	13

11.1.9.65 Noss SPA: Guillemot, DEP

Table 0-1264: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	6	10	16	25	32
20%	1	1	2	3	3	6	13	19	32	51	64
30%	1	2	3	4	5	10	19	29	48	76	96
40%	1	3	4	5	6	13	25	38	64	102	127
50%	2	3	5	6	8	16	32	48	80	127	159
60%	2	4	6	8	10	19	38	57	96	153	191
70%	2	4	7	9	11	22	45	67	112	178	223
80%	3	5	8	10	13	25	51	76	127	204	255
90%	3	6	9	11	14	29	57	86	143	229	287
100%	3	6	10	13	16	32	64	96	159	255	319

Table 0-1265: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	15	19
20%	0	1	1	2	2	4	8	12	19	31	39
30%	1	1	2	2	3	6	12	17	29	46	58
40%	1	2	2	3	4	8	15	23	39	62	77
50%	1	2	3	4	5	10	19	29	48	77	97
60%	1	2	3	5	6	12	23	35	58	93	116
70%	1	3	4	5	7	14	27	41	68	108	135
80%	2	3	5	6	8	15	31	46	77	124	155
90%	2	3	5	7	9	17	35	52	87	139	174
100%	2	4	6	8	10	19	39	58	97	155	194

Table 0-1266: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	16	20
30%	0	1	1	1	2	3	6	9	15	24	31
40%	0	1	1	2	2	4	8	12	20	33	41
50%	1	1	2	2	3	5	10	15	25	41	51
60%	1	1	2	2	3	6	12	18	31	49	61
70%	1	1	2	3	4	7	14	21	36	57	71
80%	1	2	2	3	4	8	16	24	41	65	81
90%	1	2	3	4	5	9	18	27	46	73	92
100%	1	2	3	4	5	10	20	31	51	81	102

11.1.9.66 Noss SPA: Guillemot, SEP

Table 0-1267: Potential displacement (down) and mortality (across) of Noss SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	5	6
40%	0	0	0	0	0	1	2	2	4	7	8
50%	0	0	0	0	1	1	2	3	5	8	10
60%	0	0	0	0	1	1	2	4	6	10	12
70%	0	0	0	1	1	1	3	4	7	11	14
80%	0	0	0	1	1	2	3	5	8	13	16
90%	0	0	1	1	1	2	4	6	9	15	18
100%	0	0	1	1	1	2	4	6	10	16	20

Table 0-1268: Potential displacement (down) and mortality (across) of Noss SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	1	1	1	3	4	6	10	13
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1269: Potential displacement (down) and mortality (across) of Noss SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	1	1	2	3	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	5	7
90%	0	0	0	0	0	1	2	2	4	6	8
100%	0	0	0	0	0	1	2	3	4	7	9

11.1.9.67 Noss SPA: Guillemot, SEP and DEP

Table 0-1270: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	20	34	54	68
30%	1	2	3	4	5	10	20	31	51	81	102
40%	1	3	4	5	7	14	27	41	68	108	136
50%	2	3	5	7	8	17	34	51	85	136	170
60%	2	4	6	8	10	20	41	61	102	163	203
70%	2	5	7	9	12	24	47	71	119	190	237
80%	3	5	8	11	14	27	54	81	136	217	271
90%	3	6	9	12	15	31	61	92	153	244	305
100%	3	7	10	14	17	34	68	102	170	271	339

Table 0-1271: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	17	21
20%	0	1	1	2	2	4	8	12	21	33	42
30%	1	1	2	2	3	6	12	19	31	50	62
40%	1	2	2	3	4	8	17	25	42	66	83
50%	1	2	3	4	5	10	21	31	52	83	104
60%	1	2	4	5	6	12	25	37	62	100	125
70%	1	3	4	6	7	15	29	44	73	116	145
80%	2	3	5	7	8	17	33	50	83	133	166
90%	2	4	6	7	9	19	37	56	93	149	187
100%	2	4	6	8	10	21	42	62	104	166	208

Table 0-1272: Potential displacement (down) and mortality (across) of Noss SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	6	9	11
20%	0	0	1	1	1	2	4	7	11	18	22
30%	0	1	1	1	2	3	7	10	17	26	33
40%	0	1	1	2	2	4	9	13	22	35	44
50%	1	1	2	2	3	6	11	17	28	44	55
60%	1	1	2	3	3	7	13	20	33	53	66
70%	1	2	2	3	4	8	15	23	39	62	77
80%	1	2	3	4	4	9	18	26	44	71	88
90%	1	2	3	4	5	10	20	30	50	79	99
100%	1	2	3	4	6	11	22	33	55	88	110

11.1.9.68 East Mainland Coast Shetland (EMCS) SPA: Red-throated diver, DEP

Table 0-1273: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1274: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1275: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1276: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1277: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1278: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1279: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1280: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	2

Table 0-1281: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1282: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	2	3	3
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	4	5

Table 0-1283: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	1	1	1	2	3

Table 0-1284: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

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Table 0-1285: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1286: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1287: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1288: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1289: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1290: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1291: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	6
50%	0	0	0	0	0	1	1	2	3	6	7
60%	0	0	0	0	0	1	2	2	4	7	8
70%	0	0	0	0	0	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	3	6	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	14

Table 0-1292: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1293: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1294: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	4
30%	0	0	0	0	0	1	1	2	3	4	6
40%	0	0	0	0	0	1	1	2	4	6	7
50%	0	0	0	0	0	1	2	3	5	7	9
60%	0	0	0	0	1	1	2	3	6	9	11
70%	0	0	0	1	1	1	3	4	6	10	13
80%	0	0	0	1	1	1	3	4	7	12	15
90%	0	0	1	1	1	2	3	5	8	13	17
100%	0	0	1	1	1	2	4	6	9	15	19

Table 0-1295: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	2
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	2	3	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	5
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	3	5	7
90%	0	0	0	0	0	1	1	2	4	6	7
100%	0	0	0	0	0	1	2	2	4	7	8

Table 0-1296: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

11.1.9.70 East Mainland Coast Shetland (EMCS) SPA: Red-throated diver, SEP and DEP

Table 0-1297: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1298: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-1299: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1300: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1301: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1302: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1303: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	3	6	9	11
80%	0	0	0	1	1	1	3	4	6	10	13
90%	0	0	0	1	1	1	3	4	7	12	15
100%	0	0	0	1	1	2	3	5	8	13	16

Table 0-1304: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	4
70%	0	0	0	0	0	1	1	2	3	4	5
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	3	5	7
100%	0	0	0	0	0	1	1	2	4	6	7

Table 0-1305: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	1	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1306: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	3	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	3	6	9	12
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	19
90%	0	0	1	1	1	2	4	6	10	17	21
100%	0	0	1	1	1	2	5	7	12	19	23

Table 0-1307: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	0	1	1	2	2
30%	0	0	0	0	0	0	1	1	2	3	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	1	1	2	3	4	5
60%	0	0	0	0	0	1	1	2	3	5	7
70%	0	0	0	0	0	1	2	2	4	6	8
80%	0	0	0	0	0	1	2	3	4	7	9
90%	0	0	0	0	0	1	2	3	5	8	10
100%	0	0	0	0	1	1	2	3	5	9	11

Table 0-1308: Potential displacement (down) and mortality (across) of EMCS SPA red-throated diver in DEP+4km and SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	1	1	1	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	1	2	3

11.1.9.71 Foula SPA: Guillemot, DEP

Table 0-1309: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	3	7	10	17	27	34
20%	1	1	2	3	3	7	14	21	34	55	69
30%	1	2	3	4	5	10	21	31	51	82	103
40%	1	3	4	5	7	14	27	41	69	110	137
50%	2	3	5	7	9	17	34	51	86	137	172
60%	2	4	6	8	10	21	41	62	103	165	206
70%	2	5	7	10	12	24	48	72	120	192	240
80%	3	5	8	11	14	27	55	82	137	220	275
90%	3	6	9	12	15	31	62	93	154	247	309
100%	3	7	10	14	17	34	69	103	172	275	343

Table 0-1310: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	6	10	17	21
20%	0	1	1	2	2	4	8	13	21	33	42
30%	1	1	2	3	3	6	13	19	31	50	63
40%	1	2	3	3	4	8	17	25	42	67	83
50%	1	2	3	4	5	10	21	31	52	83	104
60%	1	3	4	5	6	13	25	38	63	100	125
70%	1	3	4	6	7	15	29	44	73	117	146
80%	2	3	5	7	8	17	33	50	83	133	167
90%	2	4	6	8	9	19	38	56	94	150	188
100%	2	4	6	8	10	21	42	63	104	167	208

Table 0-1311: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	3	5	9	11
20%	0	0	1	1	1	2	4	7	11	18	22
30%	0	1	1	1	2	3	7	10	16	26	33
40%	0	1	1	2	2	4	9	13	22	35	44
50%	1	1	2	2	3	5	11	16	27	44	55
60%	1	1	2	3	3	7	13	20	33	53	66
70%	1	2	2	3	4	8	15	23	38	61	77
80%	1	2	3	4	4	9	18	26	44	70	88
90%	1	2	3	4	5	10	20	30	49	79	99
100%	1	2	3	4	5	11	22	33	55	88	110

11.1.9.72 Foula SPA: Guillemot, SEP

Table 0-1312: Potential displacement (down) and mortality (across) of Foula SPA guillemot in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	4
30%	0	0	0	0	0	1	1	2	3	5	7
40%	0	0	0	0	0	1	2	3	4	7	9
50%	0	0	0	0	1	1	2	3	5	9	11
60%	0	0	0	1	1	1	3	4	7	11	13
70%	0	0	0	1	1	2	3	5	8	12	15
80%	0	0	1	1	1	2	4	5	9	14	18
90%	0	0	1	1	1	2	4	6	10	16	20
100%	0	0	1	1	1	2	4	7	11	18	22

Table 0-1313: Potential displacement (down) and mortality (across) of Foula SPA guillemot in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-1314: Potential displacement (down) and mortality (across) of Foula SPA guillemot in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	1	1	1	2
30%	0	0	0	0	0	0	1	1	1	2	3
40%	0	0	0	0	0	0	1	1	2	3	4
50%	0	0	0	0	0	0	1	1	2	4	5
60%	0	0	0	0	0	1	1	2	3	4	6
70%	0	0	0	0	0	1	1	2	3	5	6
80%	0	0	0	0	0	1	1	2	4	6	7
90%	0	0	0	0	0	1	2	2	4	7	8
100%	0	0	0	0	0	1	2	3	5	7	9

11.1.9.73 Foula SPA: Guillemot, SEP and DEP

Table 0-1315: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	1	1	1	2	4	7	11	18	29	37
20%	1	1	2	3	4	7	15	22	37	58	73
30%	1	2	3	4	5	11	22	33	55	88	110
40%	1	3	4	6	7	15	29	44	73	117	146
50%	2	4	5	7	9	18	37	55	91	146	183
60%	2	4	7	9	11	22	44	66	110	175	219
70%	3	5	8	10	13	26	51	77	128	204	256
80%	3	6	9	12	15	29	58	88	146	234	292
90%	3	7	10	13	16	33	66	99	164	263	329
100%	4	7	11	15	18	37	73	110	183	292	365

Table 0-1316: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	1	1	1	2	4	7	11	18	22
20%	0	1	1	2	2	4	9	13	22	36	45
30%	1	1	2	3	3	7	13	20	34	54	67
40%	1	2	3	4	4	9	18	27	45	72	89
50%	1	2	3	4	6	11	22	34	56	89	112
60%	1	3	4	5	7	13	27	40	67	107	134
70%	2	3	5	6	8	16	31	47	78	125	157
80%	2	4	5	7	9	18	36	54	89	143	179
90%	2	4	6	8	10	20	40	60	101	161	201
100%	2	4	7	9	11	22	45	67	112	179	224

Table 0-1317: Potential displacement (down) and mortality (across) of Foula SPA guillemot in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	1	1	2	4	6	10	12
20%	0	0	1	1	1	2	5	7	12	19	24
30%	0	1	1	1	2	4	7	11	18	29	36
40%	0	1	1	2	2	5	10	14	24	38	48
50%	1	1	2	2	3	6	12	18	30	48	59
60%	1	1	2	3	4	7	14	21	36	57	71
70%	1	2	2	3	4	8	17	25	42	67	83
80%	1	2	3	4	5	10	19	29	48	76	95
90%	1	2	3	4	5	11	21	32	53	86	107
100%	1	2	4	5	6	12	24	36	59	95	119

11.1.9.74 Foula SPA: Puffin, DEP

Table 0-1318: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1319: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1320: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.75 Foula SPA: Puffin, SEP

Table 0-1321: Potential displacement (down) and mortality (across) of Foula SPA puffin in SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1322: Potential displacement (down) and mortality (across) of Foula SPA puffin in SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1323: Potential displacement (down) and mortality (across) of Foula SPA puffin in SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.76 Foula SPA: Puffin, SEP and DEP

Table 0-1324: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km and SEP+2km (non-breeding season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	2
80%	0	0	0	0	0	0	0	1	1	1	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1325: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km and SEP+2km (non-breeding season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1326: Potential displacement (down) and mortality (across) of Foula SPA puffin in DEP+2km and SEP+2km (non-breeding season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.77 Foula SPA: Red-throated diver, DEP

Table 0-1327: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1328: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1329: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1330: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1331: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1332: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1333: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1334: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1335: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1336: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1337: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1338: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.78 Foula SPA: Red-throated diver, SEP

Table 0-1339: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1340: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1341: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1342: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1343: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1344: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1345: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1346: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1347: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1348: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1349: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1350: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.79 Foula SPA: Red-throated diver, SEP and DEP

Table 0-1351: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1352: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1353: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1354: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1355: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1356: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1357: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1358: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1359: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1360: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1361: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1362: Potential displacement (down) and mortality (across) of Foula SPA red-throated diver in DEP+4km and SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.80 Ronas Hill – North Roe and Tingon (RHNRT) SPA: Red-throated diver, DEP

Table 0-1363: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1364: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1365: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1366: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1367: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1368: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1369: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1370: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1371: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1372: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1373: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	1
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1374: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.81 Ronas Hill – North Roe and Tingon (RHNRT) SPA: Red-throated diver, SEP

Table 0-1375: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1376: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	1

Table 0-1377: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1378: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1379: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1380: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1381: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	1	1	1
50%	0	0	0	0	0	0	0	0	1	1	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	0	1	1	2	2
80%	0	0	0	0	0	0	1	1	1	2	3
90%	0	0	0	0	0	0	1	1	1	2	3
100%	0	0	0	0	0	0	1	1	2	3	3

Table 0-1382: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1383: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1384: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	1	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	1	1	1	2	3
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1385: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	1	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1386: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

11.1.9.82 Ronas Hill – North Roe and Tingon (RHNRT) SPA: Red-throated diver, SEP and DEP

Table 0-1387: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1388: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	1
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

Table 0-1389: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1390: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (winter season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1391: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (winter season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1392: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (winter season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1393: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	2	3
90%	0	0	0	0	0	0	1	1	2	3	3
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1394: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	0	1	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	2
100%	0	0	0	0	0	0	0	1	1	1	2

Table 0-1395: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1396: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	0	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	1	2	3
60%	0	0	0	0	0	0	1	1	2	2	3
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	3	4
90%	0	0	0	0	0	0	1	1	2	4	5
100%	0	0	0	0	0	1	1	2	3	4	5

Table 0-1397: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	1	1
40%	0	0	0	0	0	0	0	0	0	1	1
50%	0	0	0	0	0	0	0	0	1	1	1
60%	0	0	0	0	0	0	0	0	1	1	1
70%	0	0	0	0	0	0	0	1	1	1	2
80%	0	0	0	0	0	0	0	1	1	2	2
90%	0	0	0	0	0	0	0	1	1	2	2
100%	0	0	0	0	0	0	0	1	1	2	2

Table 0-1398: Potential displacement (down) and mortality (across) of RHNRT SPA red-throated diver in DEP+4km and SEP+4km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	1
90%	0	0	0	0	0	0	0	0	0	1	1
100%	0	0	0	0	0	0	0	0	0	1	1

11.1.9.83 Hermaness, Saxa Vord and Valla Field (HSVVF) SPA: Gannet, DEP

Table 0-1399: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	4	4
20%	0	0	0	0	0	1	2	3	4	7	9
30%	0	0	0	1	1	1	3	4	7	11	13
40%	0	0	1	1	1	2	4	5	9	14	18
50%	0	0	1	1	1	2	4	7	11	18	22
60%	0	1	1	1	1	3	5	8	13	21	26
70%	0	1	1	1	2	3	6	9	15	25	31
80%	0	1	1	1	2	4	7	11	18	28	35
90%	0	1	1	2	2	4	8	12	20	32	40
100%	0	1	1	2	2	4	9	13	22	35	44

Table 0-1400: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	1	2	3
20%	0	0	0	0	0	1	1	2	3	4	5
30%	0	0	0	0	0	1	2	2	4	7	8
40%	0	0	0	0	1	1	2	3	5	9	11
50%	0	0	0	1	1	1	3	4	7	11	14
60%	0	0	0	1	1	2	3	5	8	13	16
70%	0	0	1	1	1	2	4	6	10	15	19
80%	0	0	1	1	1	2	4	7	11	17	22
90%	0	0	1	1	1	2	5	7	12	20	25
100%	0	1	1	1	1	3	5	8	14	22	27

Table 0-1401: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	4	4
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	1	2	4	6	7
60%	0	0	0	0	0	1	2	3	4	7	9
70%	0	0	0	0	1	1	2	3	5	8	10
80%	0	0	0	0	1	1	2	4	6	9	12
90%	0	0	0	1	1	1	3	4	7	11	13
100%	0	0	0	1	1	1	3	4	7	12	15

Table 0-1402: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	1
20%	0	0	0	0	0	0	1	1	1	2	3
30%	0	0	0	0	0	0	1	1	2	3	4
40%	0	0	0	0	0	1	1	2	3	4	5
50%	0	0	0	0	0	1	1	2	3	5	7
60%	0	0	0	0	0	1	2	2	4	6	8
70%	0	0	0	0	0	1	2	3	5	7	9
80%	0	0	0	0	1	1	2	3	5	9	11
90%	0	0	0	0	1	1	2	4	6	10	12
100%	0	0	0	1	1	1	3	4	7	11	13

Table 0-1403: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	1	2
40%	0	0	0	0	0	0	0	1	1	2	2
50%	0	0	0	0	0	0	1	1	2	2	3
60%	0	0	0	0	0	0	1	1	2	3	4
70%	0	0	0	0	0	0	1	1	2	3	4
80%	0	0	0	0	0	0	1	1	2	4	5
90%	0	0	0	0	0	1	1	2	3	4	5
100%	0	0	0	0	0	1	1	2	3	5	6

Table 0-1404: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1405: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	11
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	11	18	23
50%	0	1	1	1	1	3	6	9	14	23	29
60%	0	1	1	1	2	3	7	10	17	28	34
70%	0	1	1	2	2	4	8	12	20	32	40
80%	0	1	1	2	2	5	9	14	23	37	46
90%	1	1	2	2	3	5	10	15	26	41	52
100%	1	1	2	2	3	6	11	17	29	46	57

Table 0-1406: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	0	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	11	13
50%	0	0	0	1	1	2	3	5	8	13	17
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	12	19	23
80%	0	1	1	1	1	3	5	8	13	21	27
90%	0	1	1	1	1	3	6	9	15	24	30
100%	0	1	1	1	2	3	7	10	17	27	33

Table 0-1407: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	3	6	9	11
80%	0	0	0	1	1	1	3	4	6	10	13
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	13	16

11.1.9.84 Hermaness, Saxa Vord and Valla Field (HSVVF) SPA: Gannet, SEP

Table 0-1408: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	3
20%	0	0	0	0	0	1	1	2	3	5	7
30%	0	0	0	0	1	1	2	3	5	8	10
40%	0	0	0	1	1	1	3	4	7	11	14
50%	0	0	1	1	1	2	3	5	8	14	17
60%	0	0	1	1	1	2	4	6	10	16	20
70%	0	0	1	1	1	2	5	7	12	19	24
80%	0	1	1	1	1	3	5	8	14	22	27
90%	0	1	1	1	2	3	6	9	15	24	30
100%	0	1	1	1	2	3	7	10	17	27	34

Table 0-1409: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	7	9
50%	0	0	0	0	1	1	2	4	6	9	12
60%	0	0	0	1	1	1	3	4	7	11	14
70%	0	0	0	1	1	2	3	5	8	13	16
80%	0	0	1	1	1	2	4	6	9	15	19
90%	0	0	1	1	1	2	4	6	11	17	21
100%	0	0	1	1	1	2	5	7	12	19	23

Table 0-1410: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

Table 0-1411: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	1	1
30%	0	0	0	0	0	0	0	0	1	1	1
40%	0	0	0	0	0	0	0	0	1	1	2
50%	0	0	0	0	0	0	0	1	1	2	2
60%	0	0	0	0	0	0	0	1	1	2	2
70%	0	0	0	0	0	0	1	1	1	2	3
80%	0	0	0	0	0	0	1	1	2	3	3
90%	0	0	0	0	0	0	1	1	2	3	4
100%	0	0	0	0	0	0	1	1	2	3	4

Table 0-1412: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	1
50%	0	0	0	0	0	0	0	0	0	1	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	1	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1413: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0
100%	0	0	0	0	0	0	0	0	0	0	0

Table 0-1414: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	3	4
20%	0	0	0	0	0	1	2	2	4	6	8
30%	0	0	0	0	1	1	2	3	6	9	11
40%	0	0	0	1	1	2	3	5	8	12	15
50%	0	0	1	1	1	2	4	6	9	15	19
60%	0	0	1	1	1	2	5	7	11	18	23
70%	0	1	1	1	1	3	5	8	13	21	26
80%	0	1	1	1	2	3	6	9	15	24	30
90%	0	1	1	1	2	3	7	10	17	27	34
100%	0	1	1	2	2	4	8	11	19	30	38

Table 0-1415: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	2	2
20%	0	0	0	0	0	0	1	1	2	4	5
30%	0	0	0	0	0	1	1	2	4	6	7
40%	0	0	0	0	0	1	2	3	5	8	10
50%	0	0	0	0	1	1	2	4	6	10	12
60%	0	0	0	1	1	1	3	4	7	12	15
70%	0	0	1	1	1	2	3	5	9	14	17
80%	0	0	1	1	1	2	4	6	10	16	20
90%	0	0	1	1	1	2	4	7	11	18	22
100%	0	0	1	1	1	2	5	7	12	20	25

Table 0-1416: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	1	1	2
20%	0	0	0	0	0	0	1	1	2	2	3
30%	0	0	0	0	0	0	1	1	2	4	5
40%	0	0	0	0	0	1	1	2	3	5	6
50%	0	0	0	0	0	1	2	2	4	6	8
60%	0	0	0	0	0	1	2	3	5	7	9
70%	0	0	0	0	1	1	2	3	5	9	11
80%	0	0	0	0	1	1	2	4	6	10	12
90%	0	0	0	1	1	1	3	4	7	11	14
100%	0	0	0	1	1	2	3	5	8	12	15

11.1.9.85 Hermaness, Saxa Vord and Valla Field (HSVVF) SPA: Gannet, SEP and DEP

Table 0-1417: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (autumn migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	2	4	6	8
20%	0	0	0	1	1	2	3	5	8	12	16
30%	0	0	1	1	1	2	5	7	12	19	23
40%	0	1	1	1	2	3	6	9	16	25	31
50%	0	1	1	2	2	4	8	12	19	31	39
60%	0	1	1	2	2	5	9	14	23	37	47
70%	1	1	2	2	3	5	11	16	27	44	54
80%	1	1	2	2	3	6	12	19	31	50	62
90%	1	1	2	3	4	7	14	21	35	56	70
100%	1	2	2	3	4	8	16	23	39	62	78

Table 0-1418: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (autumn migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	4	5
20%	0	0	0	0	1	1	2	3	5	8	10
30%	0	0	0	1	1	2	3	5	8	12	15
40%	0	0	1	1	1	2	4	6	10	16	20
50%	0	1	1	1	1	3	5	8	13	20	25
60%	0	1	1	1	2	3	6	9	15	24	30
70%	0	1	1	1	2	4	7	11	18	28	35
80%	0	1	1	2	2	4	8	12	20	32	40
90%	0	1	1	2	2	5	9	14	23	36	46
100%	1	1	2	2	3	5	10	15	25	40	51

Table 0-1419: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (autumn migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	15
60%	0	0	1	1	1	2	4	5	9	14	18
70%	0	0	1	1	1	2	4	6	11	17	21
80%	0	0	1	1	1	2	5	7	12	19	24
90%	0	1	1	1	1	3	5	8	14	22	27
100%	0	1	1	1	2	3	6	9	15	24	30

Table 0-1420: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (spring migration season, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	1	1	1	2
20%	0	0	0	0	0	0	1	1	2	3	3
30%	0	0	0	0	0	1	1	2	3	4	5
40%	0	0	0	0	0	1	1	2	3	6	7
50%	0	0	0	0	0	1	2	3	4	7	9
60%	0	0	0	0	1	1	2	3	5	8	10
70%	0	0	0	0	1	1	2	4	6	10	12
80%	0	0	0	1	1	1	3	4	7	11	14
90%	0	0	0	1	1	2	3	5	8	12	16
100%	0	0	1	1	1	2	3	5	9	14	17

Table 0-1421: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (spring migration season, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	1	1
20%	0	0	0	0	0	0	0	0	1	1	1
30%	0	0	0	0	0	0	0	1	1	2	2
40%	0	0	0	0	0	0	1	1	1	2	3
50%	0	0	0	0	0	0	1	1	2	3	4
60%	0	0	0	0	0	0	1	1	2	4	4
70%	0	0	0	0	0	1	1	2	3	4	5
80%	0	0	0	0	0	1	1	2	3	5	6
90%	0	0	0	0	0	1	1	2	3	5	7
100%	0	0	0	0	0	1	1	2	4	6	7

Table 0-1422: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (spring migration season, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	1
60%	0	0	0	0	0	0	0	0	0	1	1
70%	0	0	0	0	0	0	0	0	0	1	1
80%	0	0	0	0	0	0	0	0	0	1	1
90%	0	0	0	0	0	0	0	0	1	1	1
100%	0	0	0	0	0	0	0	0	1	1	1

Table 0-1423: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (year round, upper 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	2	3	5	8	10
20%	0	0	1	1	1	2	4	6	10	15	19
30%	0	1	1	1	1	3	6	9	14	23	29
40%	0	1	1	2	2	4	8	11	19	30	38
50%	0	1	1	2	2	5	10	14	24	38	48
60%	1	1	2	2	3	6	11	17	29	46	57
70%	1	1	2	3	3	7	13	20	33	53	67
80%	1	2	2	3	4	8	15	23	38	61	76
90%	1	2	3	3	4	9	17	26	43	69	86
100%	1	2	3	4	5	10	19	29	48	76	95

Table 0-1424: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (year round, mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	1	1	2	3	5	6
20%	0	0	0	0	1	1	2	3	6	9	12
30%	0	0	1	1	1	2	3	5	9	14	17
40%	0	0	1	1	1	2	5	7	12	19	23
50%	0	1	1	1	1	3	6	9	15	23	29
60%	0	1	1	1	2	3	7	10	17	28	35
70%	0	1	1	2	2	4	8	12	20	33	41
80%	0	1	1	2	2	5	9	14	23	37	46
90%	1	1	2	2	3	5	10	16	26	42	52
100%	1	1	2	2	3	6	12	17	29	46	58

Table 0-1425: Potential displacement (down) and mortality (across) of HSVVF SPA gannet in DEP+2km and SEP+2km (year round, lower 95% CI of mean peak density)

	1%	2%	3%	4%	5%	10%	20%	30%	50%	80%	100%
10%	0	0	0	0	0	0	1	1	2	2	3
20%	0	0	0	0	0	1	1	2	3	5	6
30%	0	0	0	0	0	1	2	3	5	7	9
40%	0	0	0	0	1	1	2	4	6	10	12
50%	0	0	0	1	1	2	3	5	8	12	16
60%	0	0	1	1	1	2	4	6	9	15	19
70%	0	0	1	1	1	2	4	7	11	17	22
80%	0	0	1	1	1	2	5	7	12	20	25
90%	0	1	1	1	1	3	6	8	14	22	28
100%	0	1	1	1	2	3	6	9	16	25	31

11.1.10 ANNEX 6: Collision Risk Modelling Results for Species Screened out of CRM Assessment

11.1.10.1 Arctic tern

Table 0-1426: Arctic tern CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	Density	95% UCI	0.00	0.00	0.00	0.26	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Density	95% UCI	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
	Density	95% UCI	0.00	0.00	0.00	0.26	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.26	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.10.2 Cormorant

Table 0-1427: Cormorant CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Density	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.04
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.25	0.00	0.00	0.00	0.00	0.37
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Density	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Density	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.04
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.25	0.00	0.00	0.00	0.00	0.37
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.10.3 Fulmar

Table 0-1428: Fulmar CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
	Density	95% UCI	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.04
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.13	0.00	0.00	0.00	0.19
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Density	95% UCI	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
	Density	95% UCI	0.00	0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.08
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.00	0.10	0.00	0.03	0.00	0.13	0.00	0.00	0.00	0.25
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.10.4 Guillemot

Table 0-1429: Guillemot CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	Density	95% UCI	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.10	1.64	0.04	0.06	0.04	0.00	0.00	0.00	0.08	0.08	2.05
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Density	95% UCI	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.09	0.12	0.00	0.36
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	Density	95% UCI	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.10
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.10	1.80	0.04	0.06	0.04	0.00	0.00	0.09	0.20	0.08	2.42
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.10.5 Razorbill

Table 0-1430: Razorbill CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.15
	Density	95% UCI	0.00	0.00	0.00	0.27	0.10	0.01	0.00	0.00	0.00	0.26	0.00	0.00	0.64
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.54	0.11	0.01	0.00	0.00	0.00	0.61	0.00	0.00	1.27
		95% LCI	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.15
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.00	0.06
	Density	95% UCI	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.17	0.07	0.00	0.31
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.09	0.27	0.11	0.00	0.56
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.01	0.10	0.01	0.00	0.21
	Density	95% UCI	0.00	0.00	0.00	0.32	0.10	0.01	0.00	0.00	0.03	0.43	0.07	0.00	0.95
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.00	0.00	0.62	0.11	0.01	0.00	0.00	0.09	0.88	0.11	0.00	1.83
		95% LCI	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.15
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.10.6 Red-throated diver

Table 0-1431: Red-throated diver CRM outputs (Option 2, 0.980 avoidance rate) by month

Site	Variable		J	F	M	A	M	J	J	A	S	O	N	D	Total
DEP	Mean	-	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.18
	Density	95% UCI	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.82
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	2.23
		95% LCI	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP	Mean	-	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	Density	95% UCI	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
		95% LCI	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-
SEP and DEP	Mean	-	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.22
	Density	95% UCI	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	1.15
		95% LCI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Flight Height	95% UCI	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	2.77
		95% LCI	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04
	Avoidance Rate	-2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
		+2 SD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Noct. Act.	EB	-	-	-	-	-	-	-	-	-	-	-	-	-

11.1.11 ANNEX 7 Approach to Model Based Density Estimation for Sandwich Tern

HiDef
AERIAL SURVEYING LIMITED

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Density surface modelling, hot/cold spot analysis, and displacement investigation of Sandwich tern at Sheringham Shoal and Dudgeon Extension offshore wind farms

Authorisations

Responsibility	Name	Signature	Date
Prepared by	Grant Humphries	[redacted]	05/07/2022
Checked by	William Peden	[redacted]	05/07/2022
Approved by	Kelly Macleod	[redacted]	05/07/2022

Distribution List

Name	Organisation	Email Address
Rob Iredale	Royal Haskoning	[redacted]

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Contents

Figures

Tables

1 Executive summary

1 HiDef Aerial Surveying Ltd (HiDef) were contracted by Equinor to fly aerial surveys of an area around the existing Sheringham Shoal and Dudgeon offshore wind farms between May 2018 and September 2019. The survey includes sites proposed for the Sheringham Shoal Extension Project ('SEP') and Dudgeon Extension Project ('DEP'). Surveys were flown with a transect spacing of 2.5km using an aircraft equipped with four HiDef Gen II cameras with a resolution of 2cm GSD ('Ground Sample Distance').

2 A key species for this region was identified as Sandwich tern (*Thalasseus sandvicensis*). This prompted an investigation into the abundance and distribution of the species in relation to the proposed extensions to the existing offshore wind farms. HiDef were further contracted to build density surface models of Sandwich terns at a monthly temporal scale for the survey area and perform a hot/cold spot analysis to attempt to identify potential conflicts between Sandwich tern and the proposed wind farms.

3 As part of this analysis, HiDef were also contracted to examine the impacts of incorporating different variable combinations into MRSea to determine if there were consequences on estimation of abundance or spatial patterns. To this end, three MRSea model scenarios were generated: 1) a model using bathymetry, bathymetric slope, mean and gradient of sea surface temperature, distance to wind farm, and a spatial covariate 2) a model using all covariates except distance to wind farm, and 3) a model using only the spatial covariate.

4 Metrics of model quality were very similar in all three cases with Model 1 (all variables) having a slightly higher R-squared value. Model 1 also seemed to show more detail in the predicted spatial patterns of abundance. Further to this, Model 1 found that distance to wind farm was statistically significant and suggested some displacement of Sandwich terns out to 2km, however it was unclear if this was a real biological pattern.

5 An investigation into the 2km displacement as suggested by the MRSea analysis revealed no patterns in the observations of Sandwich tern that would reflect displacement outside of the windfarm footprints. The mean densities of Sandwich tern within sequential one-kilometre buffers outside of the windfarms were statistically similar to background densities across the whole site.

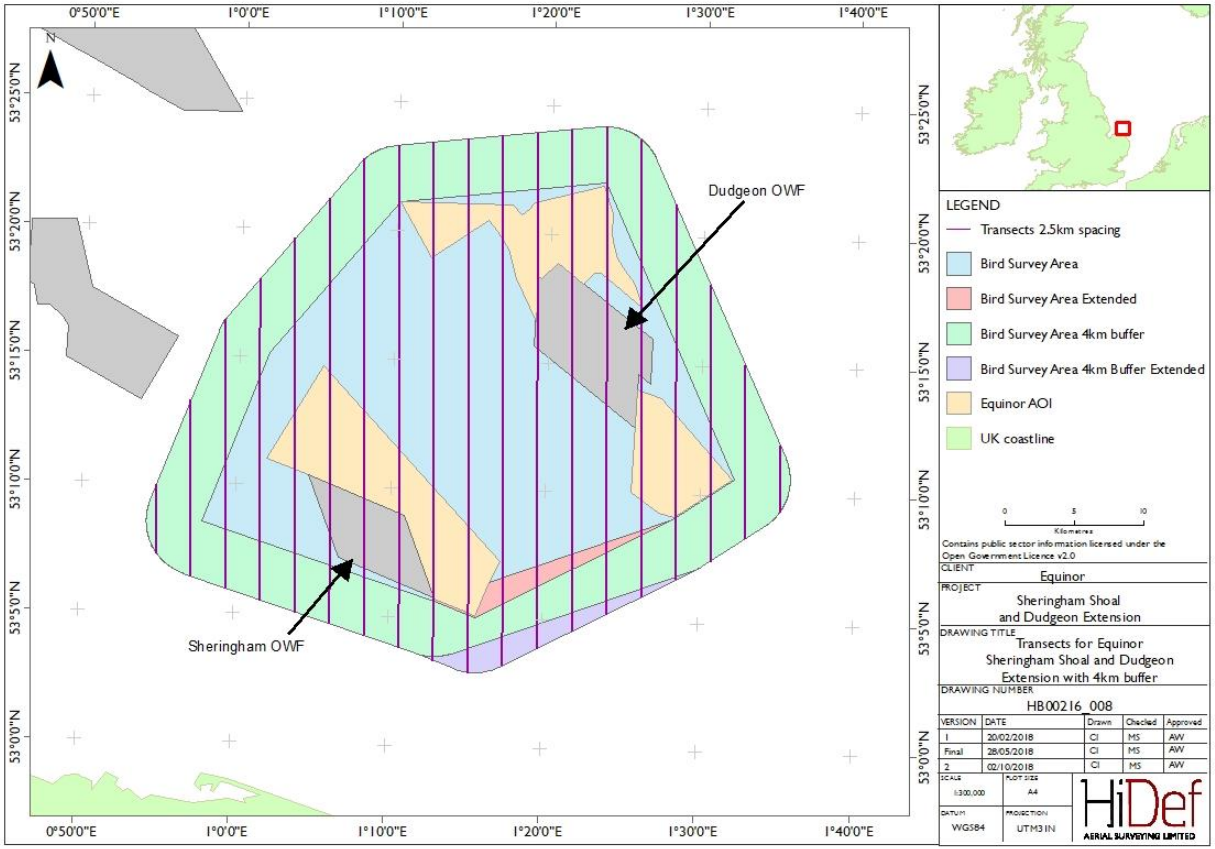
6 All three models generated population estimates that were nearly identical with differences only in the confidence limits around the mean. The design-based method (i.e., where transects are bootstrapped to obtain confidence limits around mean densities) also produced estimates that were very similar to those generated by MRSea. Confidence limits around the design-based estimates were somewhat higher than any of the MRSea outputs. Notably, the model that only contained a spatial covariate (Model 3) had the tightest confidence limits. This highlights the importance of caution in how confidence limits are interpreted and used in the assessment process.

7 Because Model 1 had a slightly higher R-squared value, it was decided that it would be taken forward into a hot/cold spot analysis.

8 The hot/cold spot analysis identified no regions of persistent high or low densities of Sandwich tern throughout the site. A region of high densities was identified in the Northern proposed Dudgeon extension project area (DEP-N), but the coefficient of variation across this region was relatively high

and thus was classified as a variable hotspot. Comparing densities inside and outside the windfarm footprints showed displacement within windfarms potentially on the order of 67 to 91%.

Figure 1 Survey design showing Sheringham Shoal and Dudgeon with 4km buffer and transects within 2.5km spaced transects



2 Methods

2.1 Density surface modelling with MRSea

9 The complex regional spatial smoother ('CReSS') method with a Spatially Adaptive Local Smoothing Algorithm ('SALSA') based model selection was used to model bird distribution. The models were implemented using a combination of custom-written code and the marine renewables strategic environmental assessment ('MRSea') package in R (Scott-Hayward *et al.* 2013a). The MRSea package takes advantage of the Generalized Additive Model (GAM) approach, which is an algorithm that is based on generalized linear models but instead fits splined curves, rather than linear equations. This approach is current guidance for analysis of this sort and is becoming routinely applied in a wide variety of situations on a range of spatial scales.

10 The surveyed region is made up of several smaller sites (Figure 1). For the purpose of this work, predictions of density have been made over the entire surveyed region (including the 4km buffer). These predictions can be spatially clipped to the various wind farm regions in the site.

11 Here, the distribution and abundance of Sandwich tern (*Thalasseus sandvicensis*) was modelled for the months where the species was observed in the Sheringham Shoal Extension Project (SEP) and Dudgeon Extension Project (DEP) aerial survey study area (Figure 3). Observations of Sandwich tern were aggregated into 500m bins across the survey transects to use at the dependent variable in the models. Aggregated observation data were modelled to month rather than survey due to multiple surveys across certain months. This effectively generated average estimates of distribution and abundance for each month across the survey period.

12 Environmental covariates used in the model included bathymetry (from GEBCO 2021; [redacted], bathymetric slope (derived from GEBCO 2021 using the slope() function in the R 'raster' package), daily sea surface temperature from NASA's Jet Propulsion laboratory [redacted], sea surface temperature gradient (derived from sea surface temperature), and distance to operational wind farms (constructed from the EMODnet database of offshore wind farms in the UK).

2.1.1 Selection of model covariates

13 Three MRSea model scenarios were generated to get an understanding of the implications of model covariates on predicted outputs. The first was a model which contained all covariates (bathymetry, bathymetric slope, mean and gradient of sea surface temperature and distance to wind farm). These covariates are the most readily available with appropriate spatio-temporal resolution for the aggregated observations (<500m and daily resolution). The second scenario was a model that contained all covariates except distance to wind farm. This scenario was presented to demonstrate the effects of including a 'distance'-type variable (i.e., are spatial artefacts formed or does the inclusion of the distance variable affect population estimates). The third was a scenario that utilised no environmental covariates and simply used the spatial relationship. This was presented to demonstrate the effect of the spatial covariate in terms of quantifying the spatial patterns and to determine if there was an impact on the population estimates and their confidence limits.

14 A model with terms for the environmental covariates (and without a smooth term for the spatial component) was first fitted in models 1 and 2 to allow the relationships to initially be unhindered by spatial information to test for highly correlated (collinear) variables. Using a general variable inflation factor (gVIF) analysis, we tested for collinear variables that could be removed to ensure statistical significance of the variables and inference from the models were reliable.

15 The data were run through a model selection function which first looks at the data in terms of the covariates (i.e., the environmental data). Each term is fitted with and without smoothing factors with varying knot positions, or removed altogether, and the best model is selected by cross validation (with the best model having the lowest mean squared error). Then, this is repeated on a two-dimensional plane, including the spatial coordinates with smoothing factors. The smoother term for the spatial co-ordinates was permitted to have a minimum of 2 knots and a maximum of 40 knots using a CReSS (Scott-Hayward *et al.* 2013b) and the SALSA algorithm was used to determine the number and placement of knots. Smooth function fitting for depth was carried out using SALSA (Walker *et al.* 2011). To ensure placement of spatial knots was representative of months, an interaction factor of 'month x year' was included.

2.1.2 Model inference and assessment

16 Mechanistic inference was performed by examination of statistically significant terms by way of a one-way analysis of variance, and investigation of the partial dependence plots which indicated the marginal effect of the individual covariates on the response (i.e., density of birds). This was only performed for model scenarios that included environmental covariates with significant effect as determined by the MRSea models.

17 Assessment of model quality was made by examining several outputs including the explanatory performance (i.e., the R-squared metric), the predictive performance (i.e., root mean squared error), and the scaled Pearson's residuals (for examining outliers). The quality of the predictor variables in the model were also assessed by looking at the cumulative residual plots. These metrics of model quality were compared between the three scenarios.

2.1.3 Geo-referenced results

18 The species-specific fitted surfaces were generated by making predictions to a 1km x 1km grid. These grids were projected as the Universal Transverse Mercator (Zone 30N) projection.

19 The coefficient of variation (CV) for each model is also expressed spatially (and for abundance estimates) in this report. The CV represents the ratio of the standard deviation of the estimate to the mean estimate for that grid cell. To ensure the CV surfaces are not dominated by very small predictions (an artefact of such a measure for low predictions), surface uncertainty was also expressed using lower and upper 95% CIs. These confidence limits are based on combining uncertainty from all parameters from the model using a parametric bootstrap (with 1000 replicates).

2.1.4 Abundance estimates from MRSea density surfaces

20 Abundance estimates were made by summing the grid cells across the prediction surfaces. To get abundance estimates within the wind farm area, we summed up grid cells that fell within the boundary. Upper and lower confidence limits were calculated by determining the 95% confidence limits of the sums of the 1000 bootstraps. That is, for every bootstrapped density surface, the overall population for the wind farm area is calculated; those sums (n = 1000) are then used to calculate the 95% CIs and the means and standard deviations (sd) are used to calculate the CV by equation 1.

$$CV = \frac{sd}{mean} \quad (1)$$

2.2 Hotspot analysis

21 The approach to assess hot- and cold-spots using MRSea outputs is straightforward and has been applied previously to the Hornsea Four offshore wind farm (HiDef report HC0029-400). It is facilitated by the spatio-temporal standardisation of MRSea outputs across months. Predicted mean abundance surfaces were normalized on a scale of 0 – 1 (i.e., where 1 is representative of the peak abundance across the surface, and 0 is the lowest abundance) to account for differing overall abundances between months. These surfaces were 'stacked', and the normalized mean and coefficient of variation were calculated for each predicted grid cell.

22 The normalized mean and coefficient of variation surfaces were reclassified using the 5% and 95% quantiles for the respective surfaces. Coefficient of variation values < 5% quantile were considered persistent (and CV values > 5% quantile were variable), while normalised means > 95% quantile were considered abundant (high), < 95% and > 5% quantiles were moderate, and < 5% quantile were considered least abundant (low; Table 1).

Table 1 Grid cell classifications for hotspot analysis using MRSea outputs

CV Quantile	*Normalised mean quantile*		
	< 5%	<95% & > 5%	> 95%
< 5%	Low and persistent	Moderate and persistent	High and persistent
> 5%	Low and variable	Moderate and variable	High and variable

2.3 Displacement analysis

23 To measure any potential displacement effects, 1-kilometre sequential buffers were generated around the Sheringham Shoal and Dudgeon offshore wind farm footprints (Figure 2). This was done out to a distance of 7km from each footprint, which was the maximum buffer size where buffers did not overlap, thus allowing for an assessment of each windfarm independent of the other.

24 Mean, and upper and lower confidence limits of aggregated counts of Sandwich tern were computed for each of the sequential buffers and for each month/year combination of the surveys (i.e., the same temporal scale of the MRSea predictions). The aggregated counts within each of the sequential buffers were compared to mean aggregated counts in all areas outside of the 7km buffer zones of both wind farms by way of a one-sided Wilcoxon test.

25 Without pre-construction data, it was not possible to do a full within windfarm displacement analysis. However, the displacement rate was broadly estimated by comparing the mean densities of Sandwich tern in the respect windfarm areas versus the background data.

Figure 2 One-kilometre sequential buffers around the Sheringham shoal and Dudgeon windfarms

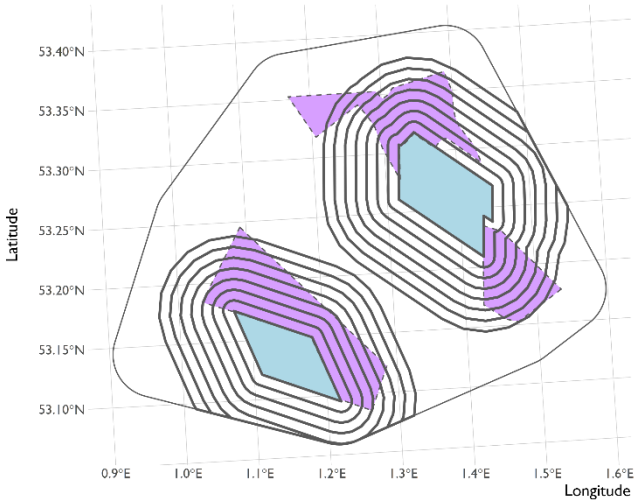
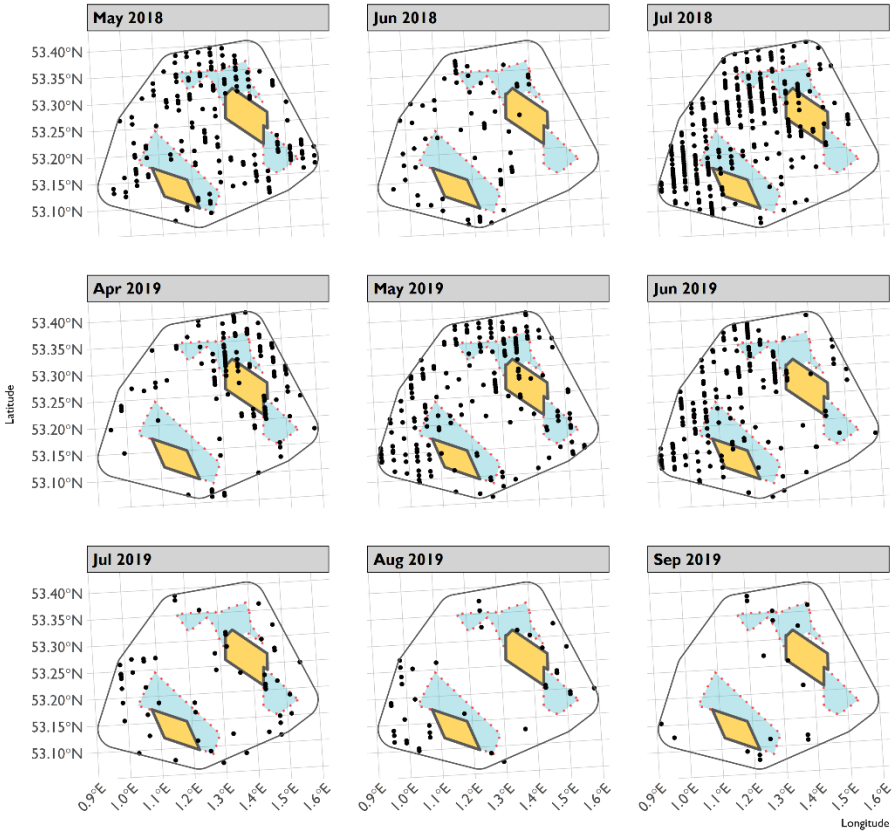


Figure 3 Observations of Sandwich tern for each month where surveys took place in the Sheringham Shoal / Dudgeon offshore wind farm region. Only months where Sandwich tern were observed are plotted.



3 Results

3.1 Predictive / Explanatory power

26 The R-squared value is a value between 0 and 1 which measures how well a model captures the variability of the underlying data; the higher the value, the better the model has captured this variability. It is typically quite low for over-dispersed data. The marginal R-squared values for all three models were somewhat similar, with the "all variables" model having the highest value (0.1498). This means that approximately 85% of the variability in the underlying data was not explained by the model. Both the no variables model and the "no distance to wind farm" model had R-squared values of 0.1354 and 0.1395 respectively (Table 2). These values are somewhat expected and in line with previous work (see MRSea vignettes for reference.[1]).

27 Predictive performance is broadly measured by the root mean squared error (RMSE). For all three models, the RMSE values were very similar, ranging from 0.2945 to 0.3004. Thus, our predictions of counts were on average approximately a value of 0.30 away from observations in all models. This must be interpreted with caution however, as there were many 0 values in the observations and this value can be skewed by this data imbalance. High numbers of zero values could result in the predictive performance of the model being overestimated by the RMSE value.

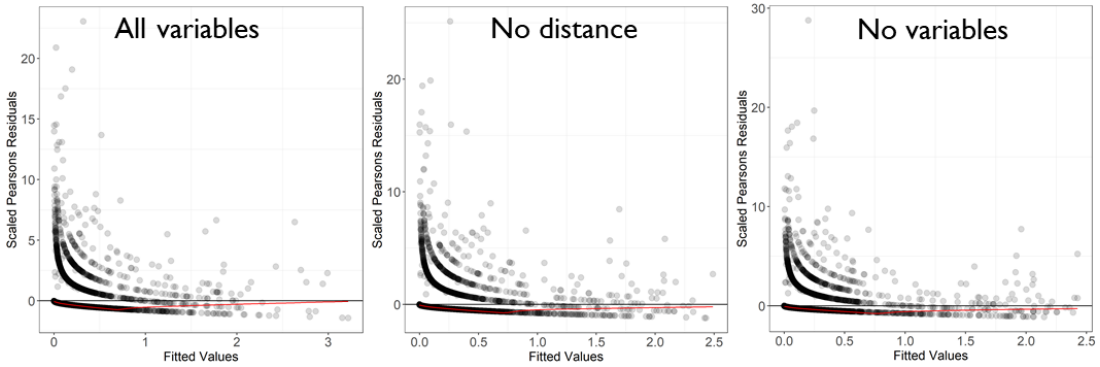
Table 2 Predictive and explanatory power of three MRSea models for Sandwich terns

Metric	*All variables*	*All variables – distance to wind farm removed*	*No variables (spatial only)*
R-squared	0.1498	0.1395	0.1354
Root mean squared error	0.2963	0.3004	0.2945

28 Scaled Pearson's residual plots are used to assess outliers to determine if any data were leading to poor quality of fit as measured by metrics such as R-squared or RMSE. In this case, the lowest residuals are along the "0" line of the y axis (i.e., the residual axis) and the overall trend-line in red is flat in all three cases, indicating no particularly unusual behaviour in the residuals (Figure 4). Most of the highest residuals occur when fitted (predicted) values are around 0, with one case having a scaled residual > 25. This is typical in these kinds of density surface models.

[1] [redacted]

Figure 4 Scaled Pearson's residuals of the three Sandwich tern MRSea models



3.2 Model inference

29 Mechanistic inferences can often be made from environmental models such as the ones presented here, however these must be done carefully as it can be easy to over-interpret the outcomes.

30 Using an Analysis of Variance (ANOVA), the statistical significance of the environmental covariates was measured (Table 3). Mean sea surface temperature was removed from the analysis due to a general gVIF > 2.0. Of the remaining variables, bathymetry, and the interaction term (month x year) were statistically significant in both the 1-D environmental models (i.e., where all variables were included, and in the model where distance to wind farm was not included). In the model where all variables were included, distance to wind farm was also identified as statistically significant.

Table 3 ANOVA output from Sandwich tern MRSea models.

Model	Parameter	Degrees of freedom	P-value
All variables	Month x Year	8	<< 0.001
	Bathymetry	1	<< 0.001
	Bathymetric slope	3	0.298
	SST gradient	4	0.196
	Distance to wind farm	3	<< 0.001
No distance to wind farm	Month x Year	8	<< 0.001
	Bathymetry	1	<< 0.001
	Bathymetric slope	3	0.0638
	SST gradient	4	0.0879

31 For the model that contained all variables, the relationships with bathymetry and SST gradient were not well resolved demonstrated by the wide confidence intervals in partial dependence plots. This is apparent by the unusual confidence limits around the partial dependence plots. In the case of bathymetry (in both Figures 3 and 4), the confidence limits around the partial dependence encompass almost the entire plot. However, the model with distance to wind farm removed seems to better approximate the relationship with bathymetry as the cumulative residuals of predicted counts better match those of

expected counts. In both models, however, the cumulative residuals match very closely values > 25m depth, which could reflect the low variability in depth across the site.

32 The gradient of sea surface temperature is very low across much of the site and thus the relevance of this term could be somewhat questionable, despite it being identified as statistically significant. The partial dependence plots support this as both models with environmental variables have very similar relationships (only minor, hardly visible differences are apparent between these relationships in both models). The confidence limits are very tight along the curve until values reach ~0.000125, where the curve starts to inflect upwards. However, there are few observations in this part of the environmental envelope (hence the wide confidence limits in this relationship; Figure 5 and Figure 6).

33 The relationship with distance to wind farm in the MRSea model which contained all variables seems to be the most well resolved in terms of the partial dependence. From 0 to approximately 2000m (2km) away from the existing wind farm developments, there is an upward trend in predicted abundance of terns (Figure 5). This likely represents evidence of operational phase displacement of Sandwich tern from offshore wind farms (OWFs) in the wider Wash area. Beyond 2km from OWF boundaries, the relationship inflects downwards with lower densities at distance from the wind farm developments. The reason for this is unclear. Comparing these findings to Figure 3, the evidence for this 2km displacement to be representative of a true relationship seems slim as many observations of Sandwich tern fall on the boundary of the Dudgeon wind farm (though not within the footprint).

Figure 5 Cumulative residuals and partial dependence plots of statistically significant variables for a Sandwich tern MRSea model which contained the variables; bathymetry, bathymetric slope, distance to wind farm, and sea surface temperature gradient.

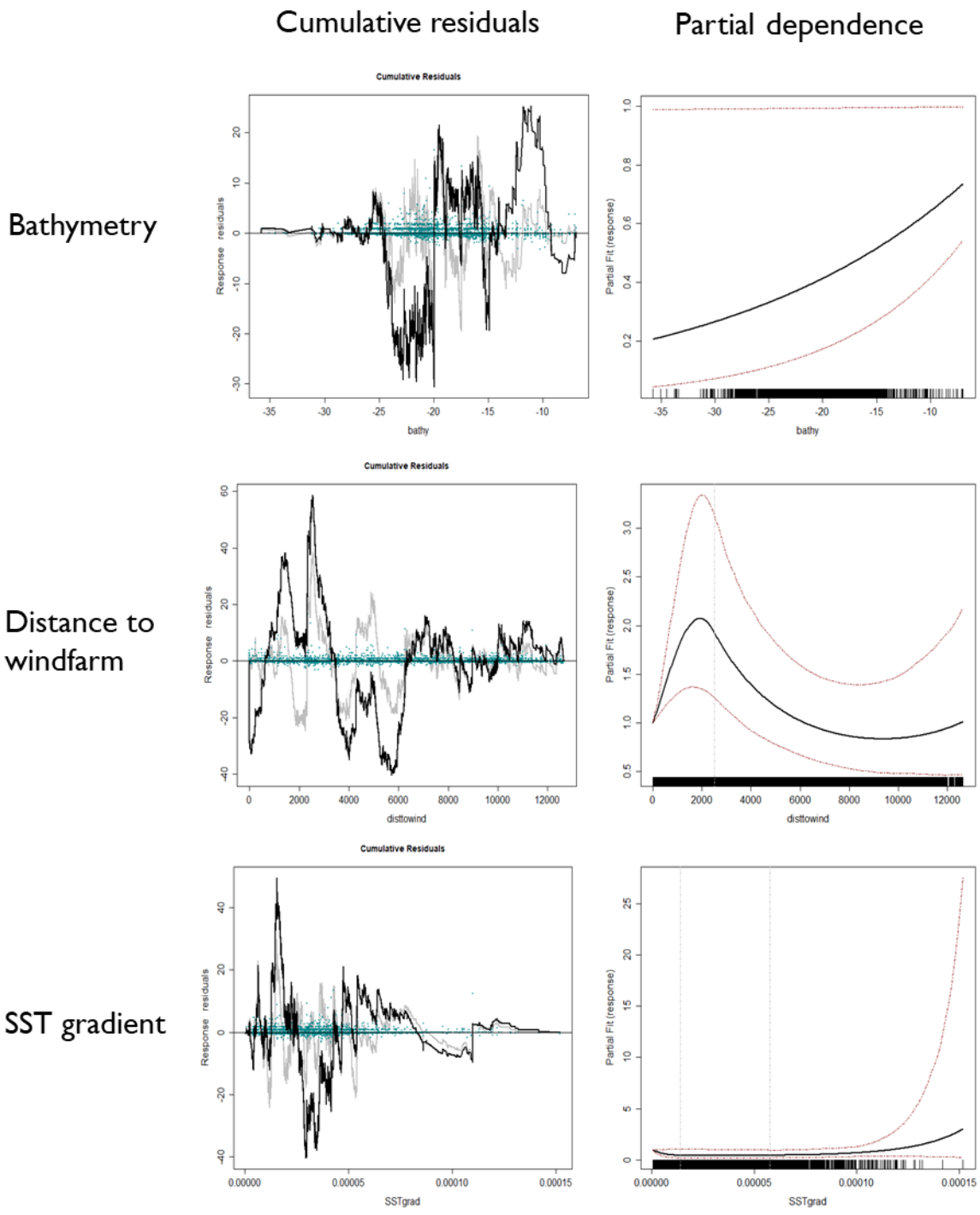
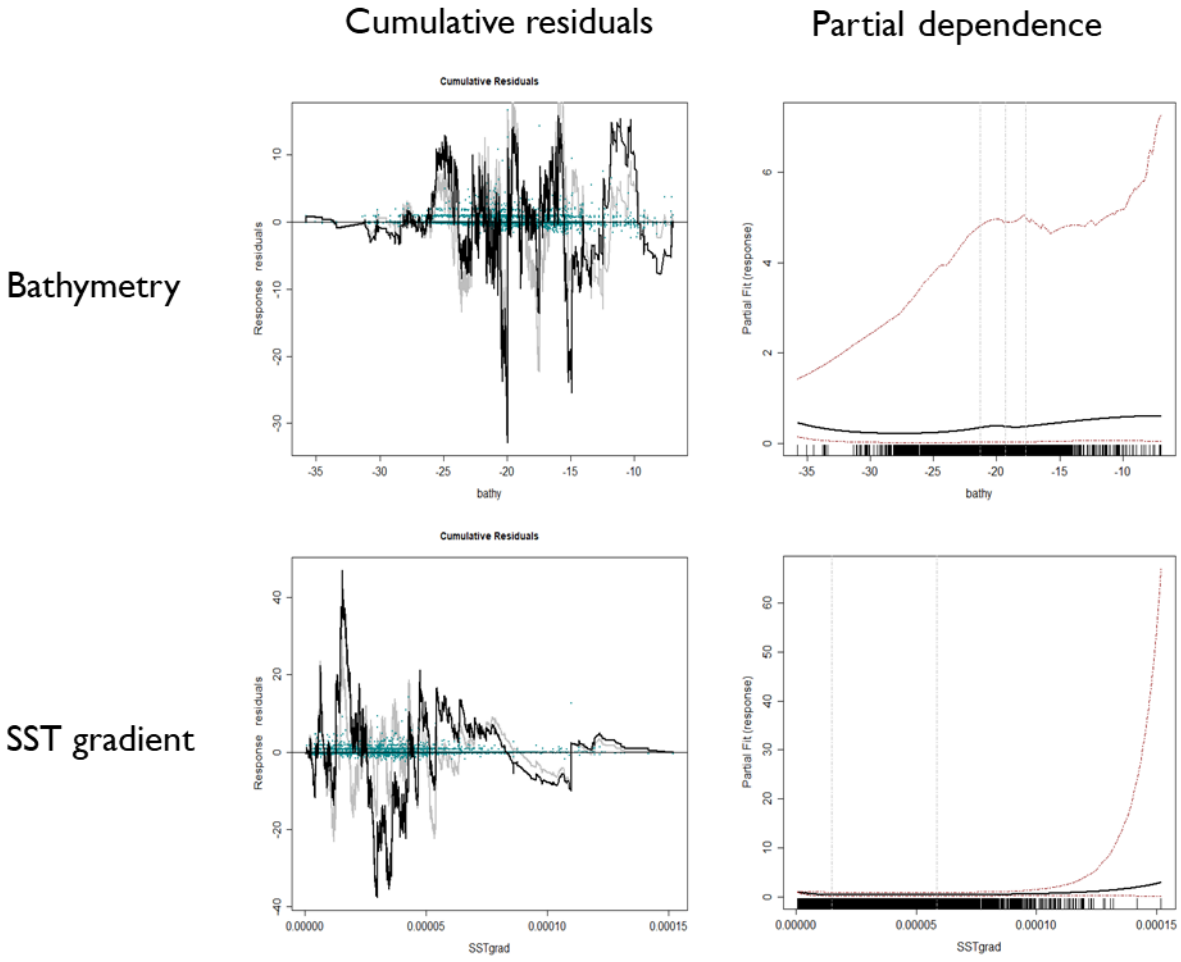


Figure 6 Cumulative residuals and partial dependence plots of statistically significant variables for a Sandwich tern MRSea model which contained the variables; bathymetry, bathymetric slope, and sea surface temperature gradient.



3.3 Spatial predictions

34 Predictions from all three models (including the lower and upper confidence limits) show broad similarities in the spatial patterns for predicted months. May 2018, July 2018, April 2019, May 2019, Jun 2019 and September 2019 all demonstrate higher densities in an area of habitat within the proposed Dudgeon extension North (DEP-N). Overall, predicted abundances were lowest (~ 0 – 1 birds/km^2) for July, through September 2019, while the highest abundances (> 5 – 10 birds/km^2) were apparent in July 2018 (Figure 7 - Figure 15). This survey had by far the highest numbers of Sandwich tern records across all surveys.

35 The most detailed predicted surfaces were those generated by the model which included all covariates (Figure 7 - Figure 9), while the least detailed were those generated by the model with no covariates (Figure 13 - Figure 15). Predictions from the full model clearly show the outline of the wind farm areas due to the statistical significance of the relationship with distance to wind farm (Figure 7). Conversely, the predictions from the model with no covariates emulates a standard kernel density estimation (Figure 13).

Figure 7 Mean predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, distance to wind farm, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

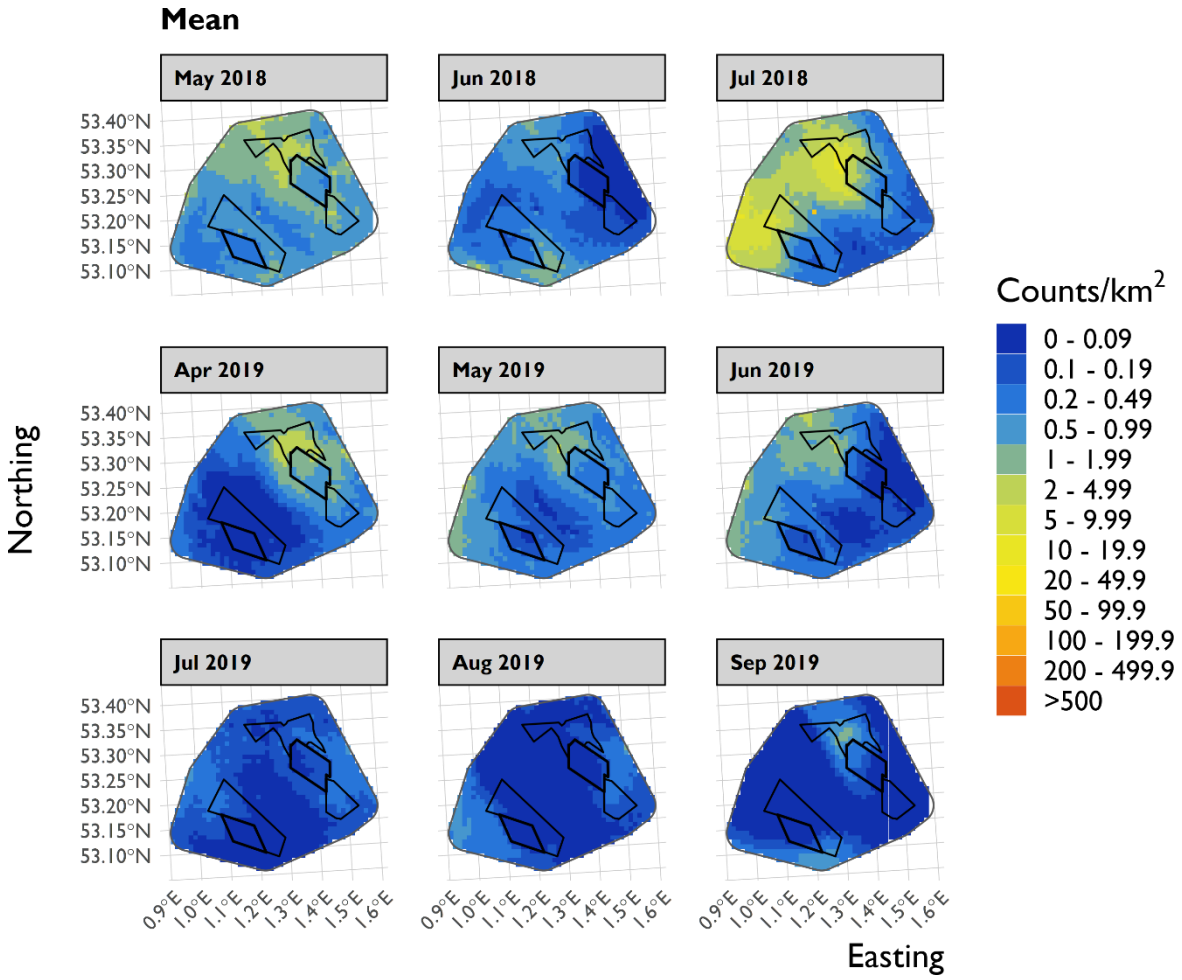


Figure 8 Lower confidence limit of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, distance to wind farm, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

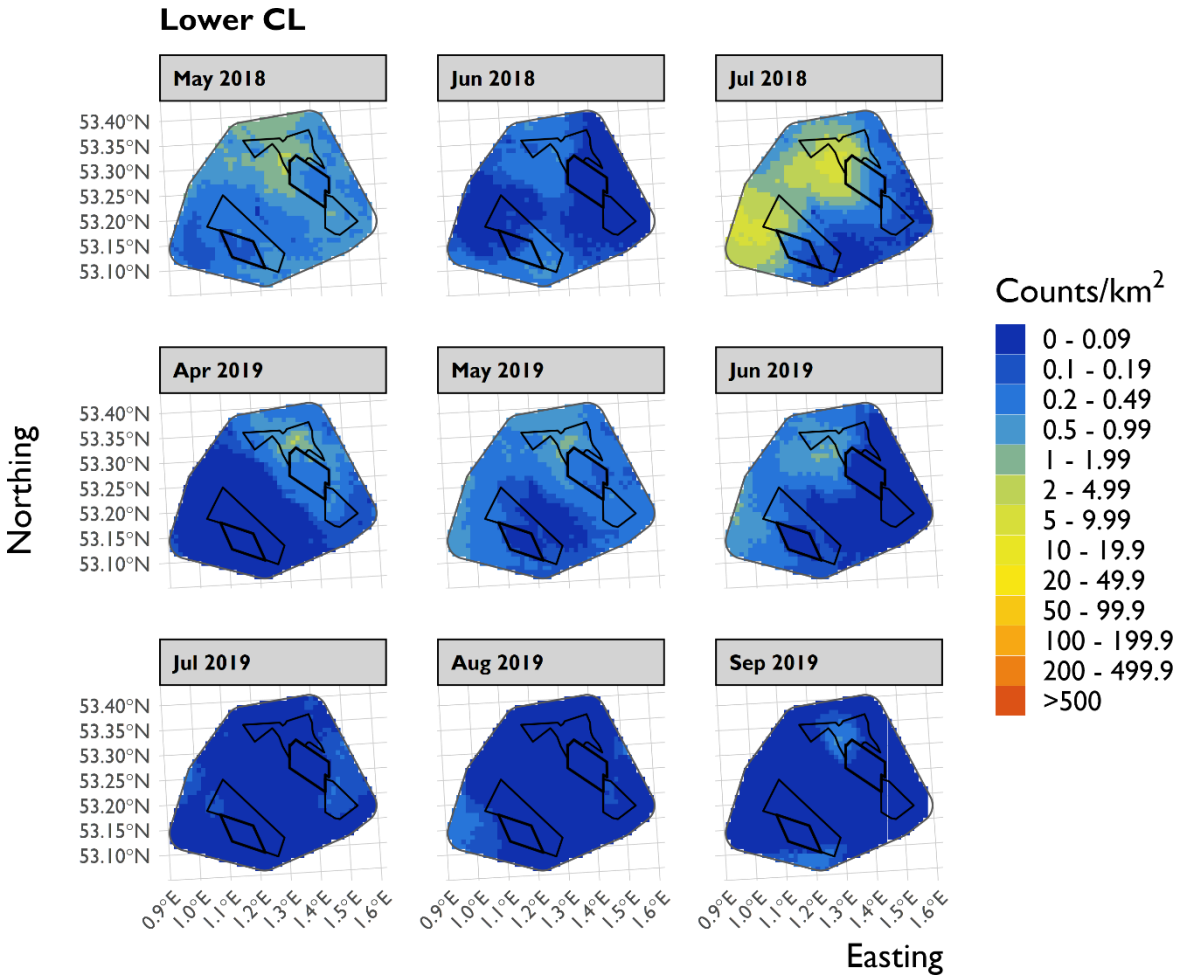


Figure 9 Upper confidence limit of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, distance to wind farm, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

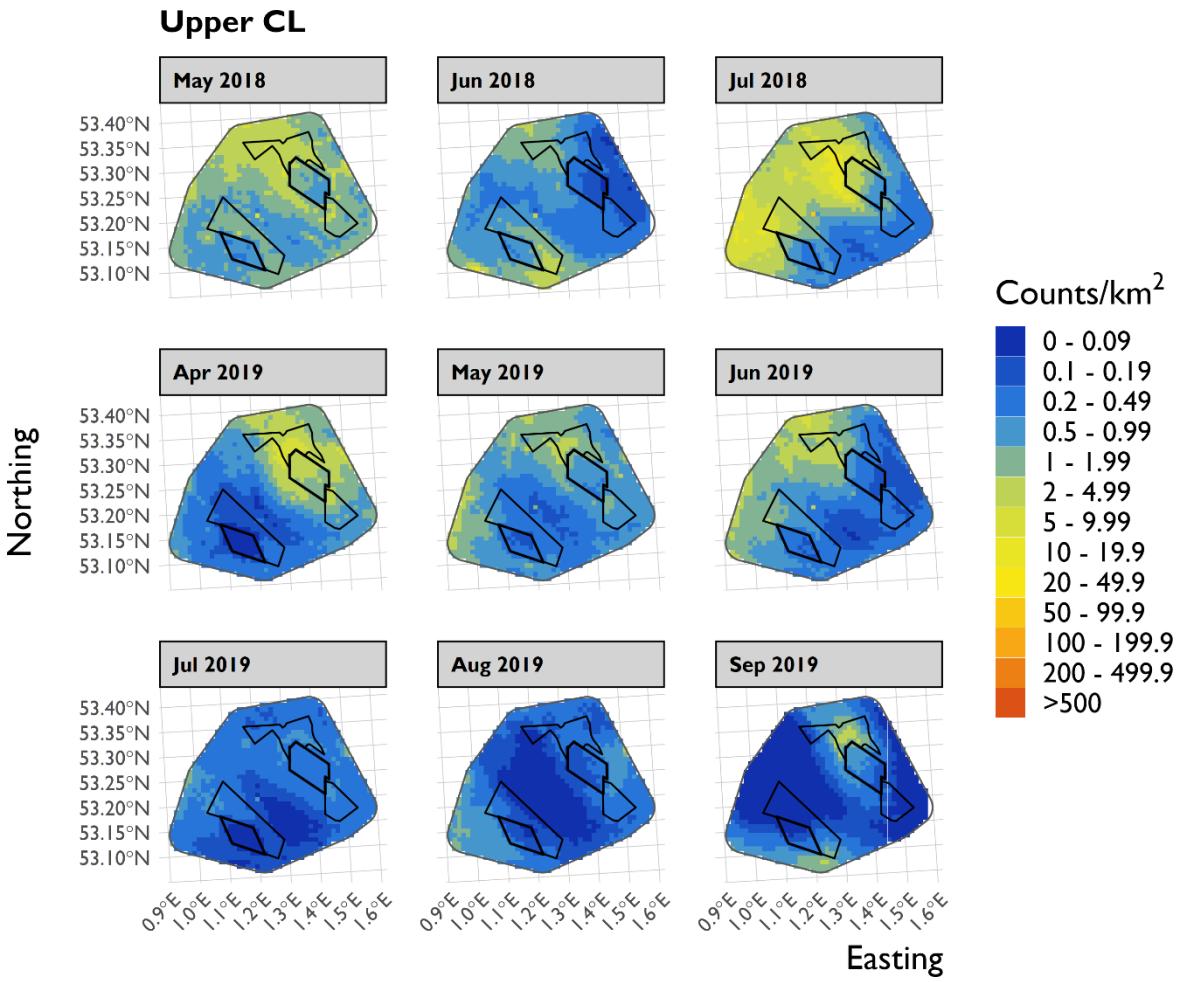


Figure 10 Mean predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

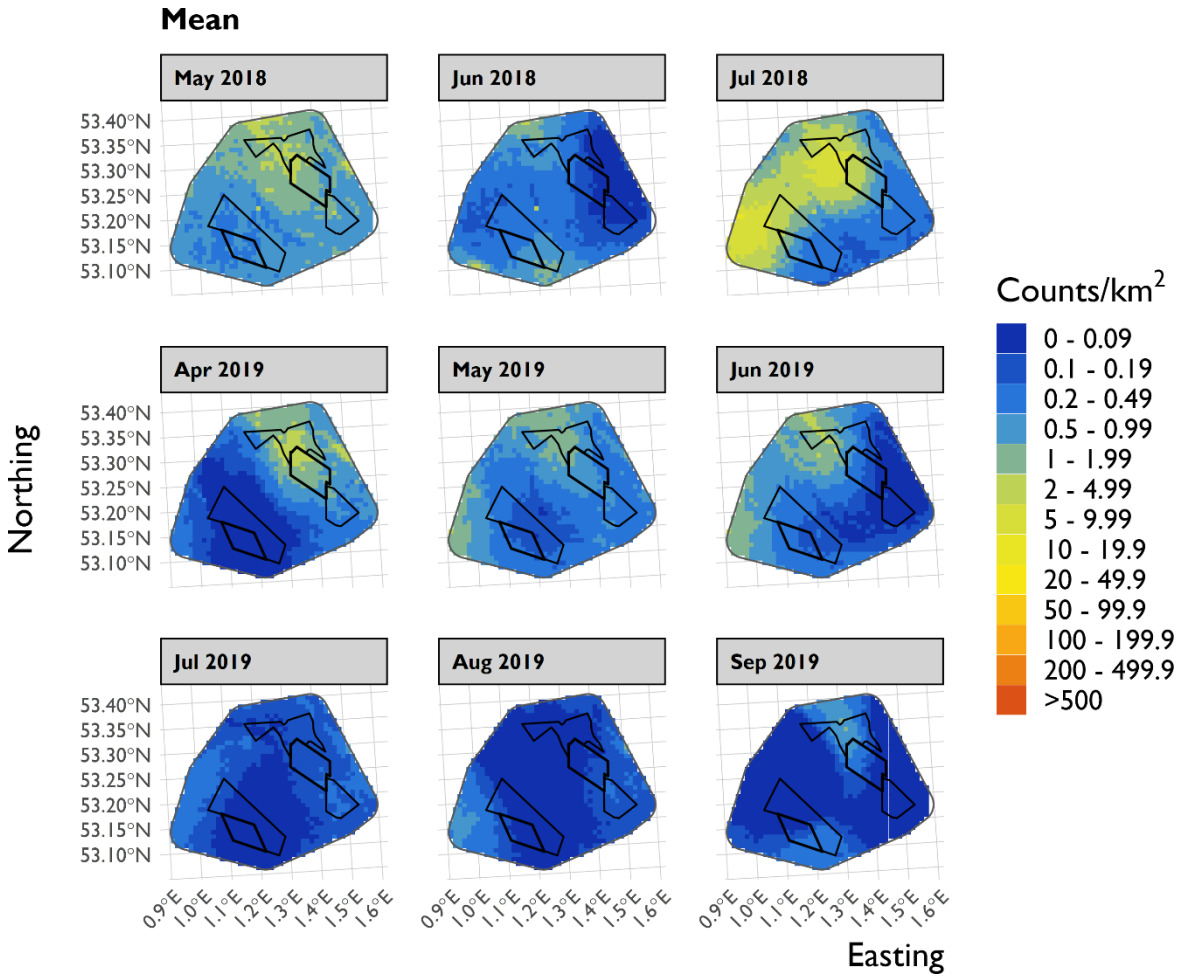


Figure 11 Lower confidence limit of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

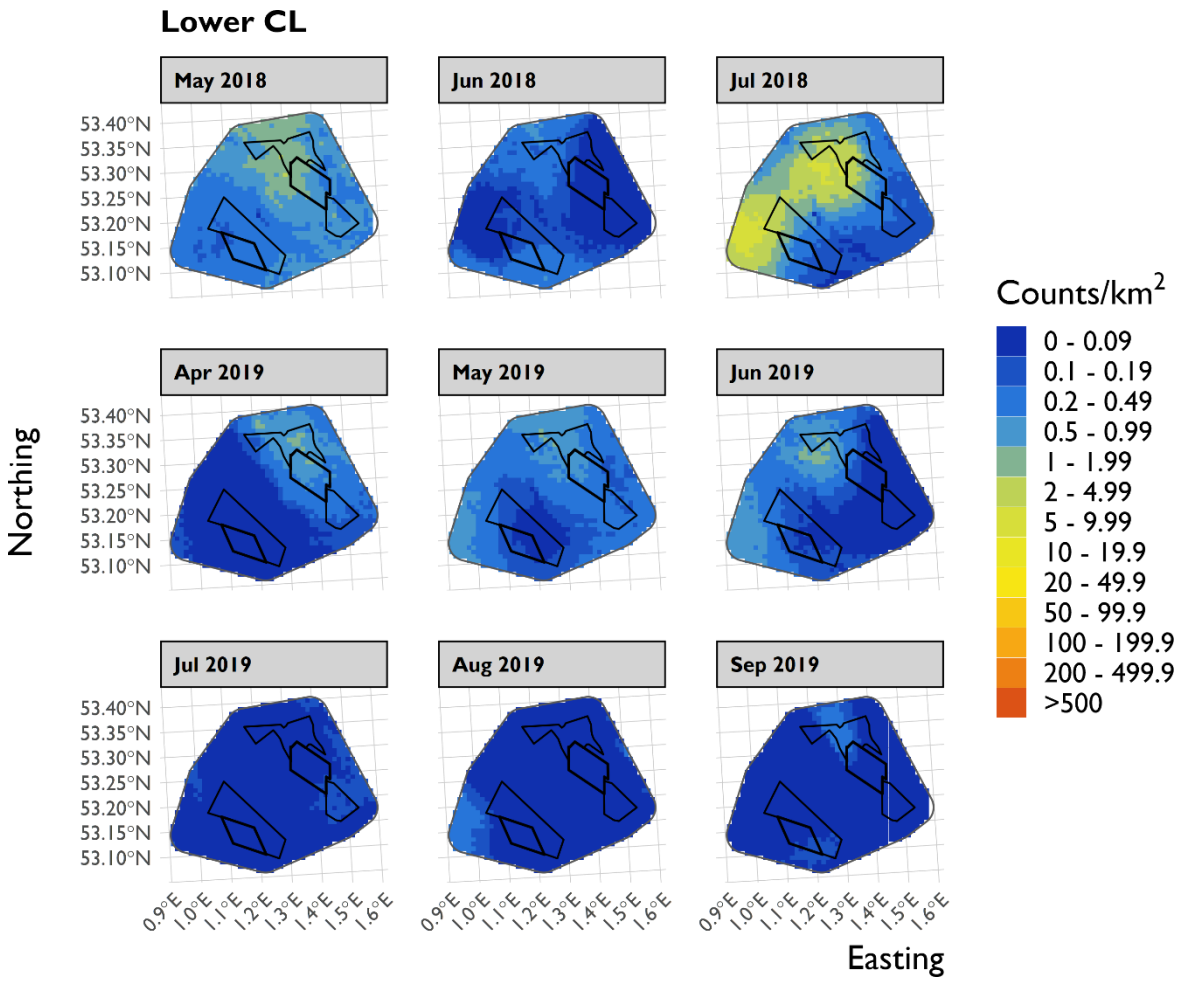


Figure 12 Upper confidence limit of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

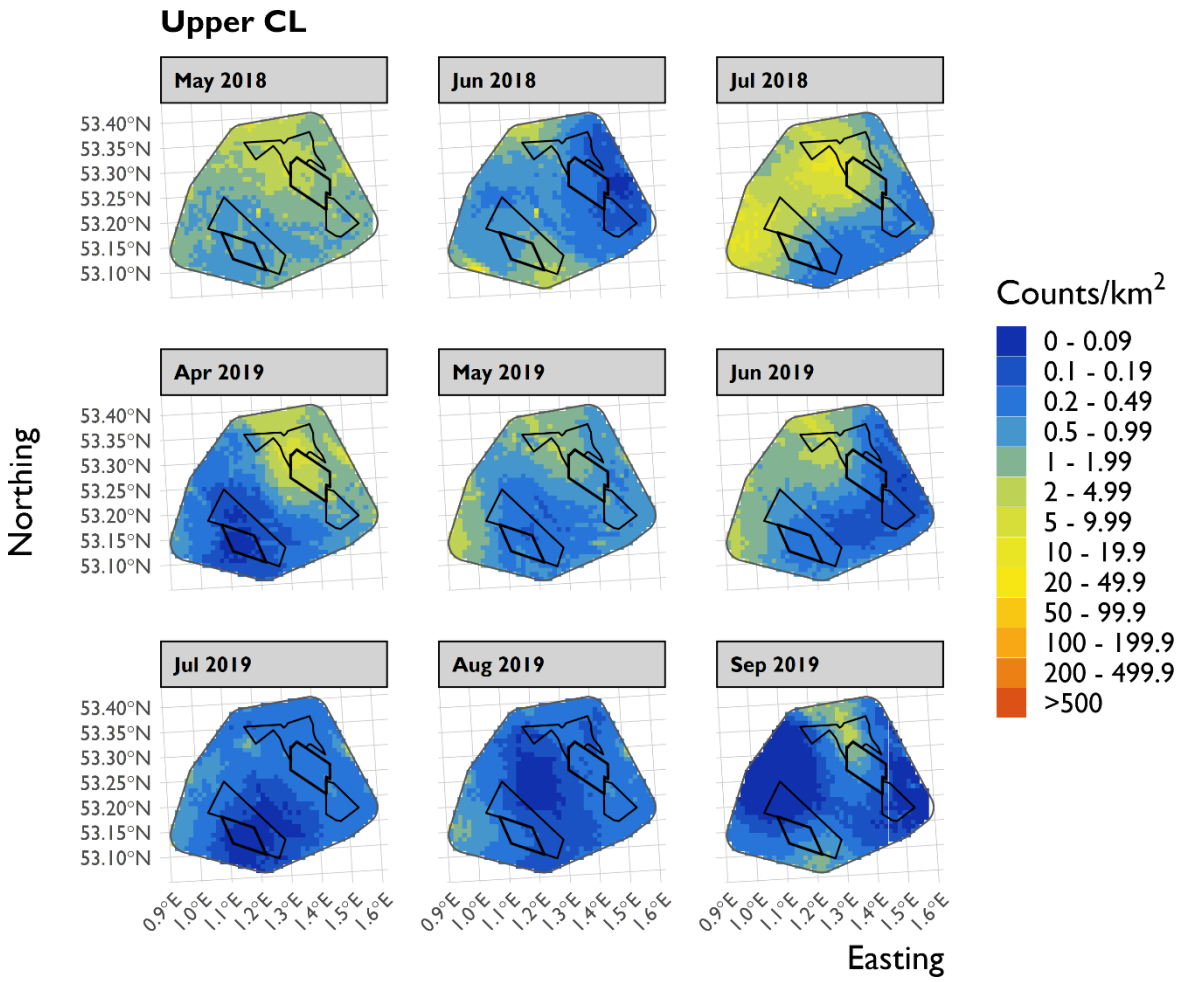


Figure 13 Mean predicted density surface of Sandwich terns from an MRSea model which only uses the spatial component of the data to make predictions. The boundaries of the existing and proposed extensions to windfarms are shown in black.

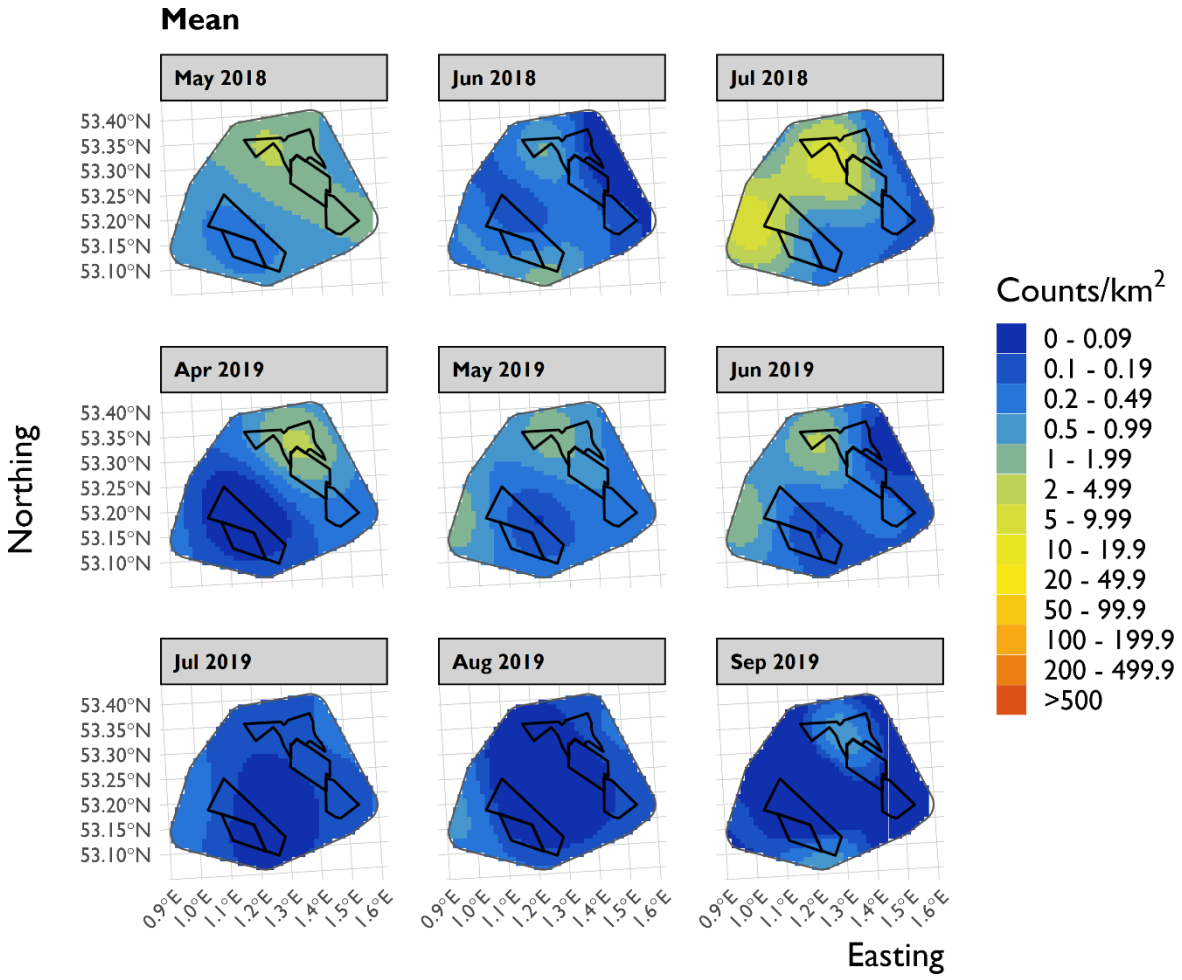


Figure 14 Lower confidence limits of predicted density surface of Sandwich terns from an MRSea model which only uses the spatial component of the data to make predictions. The boundaries of the existing and proposed extensions to windfarms are shown in black.

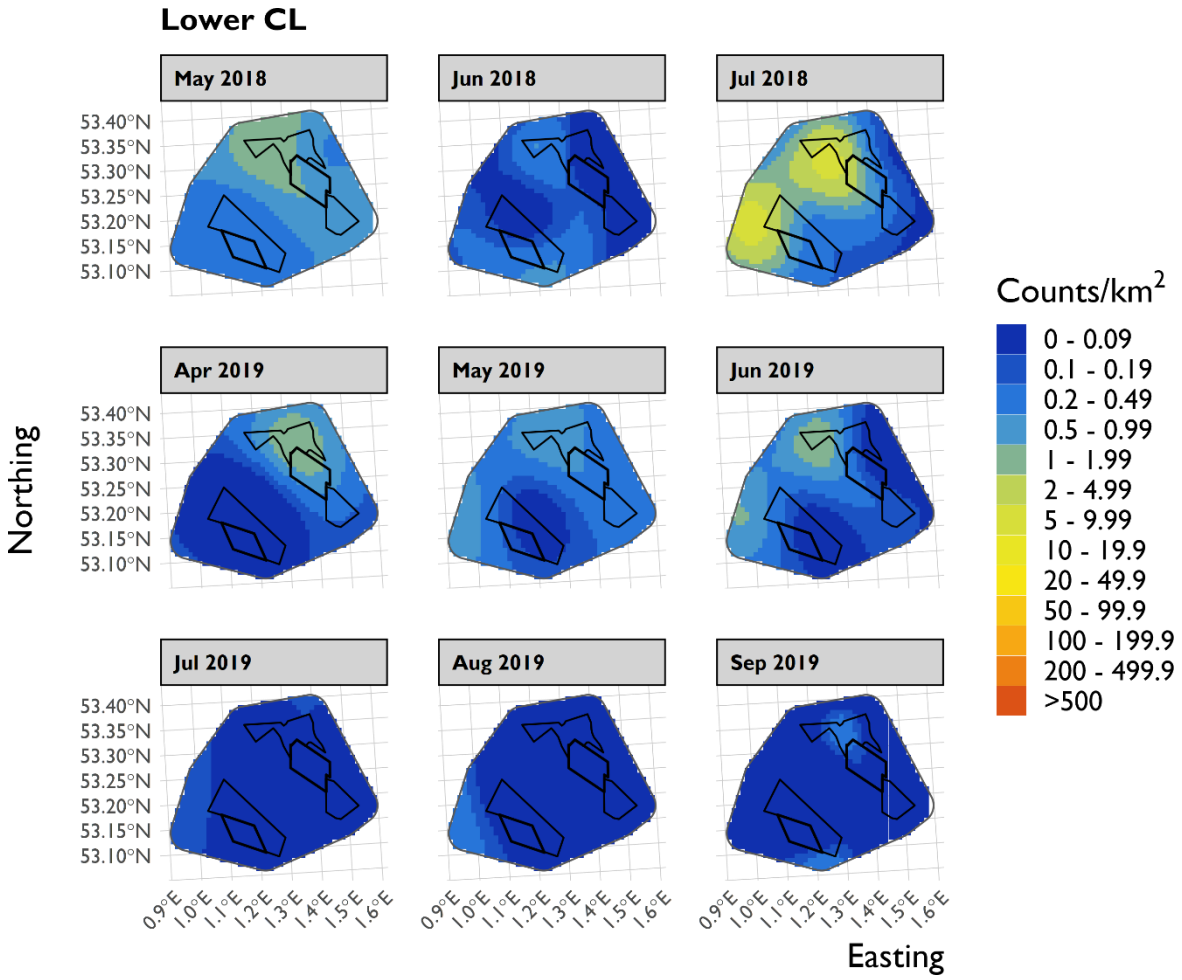
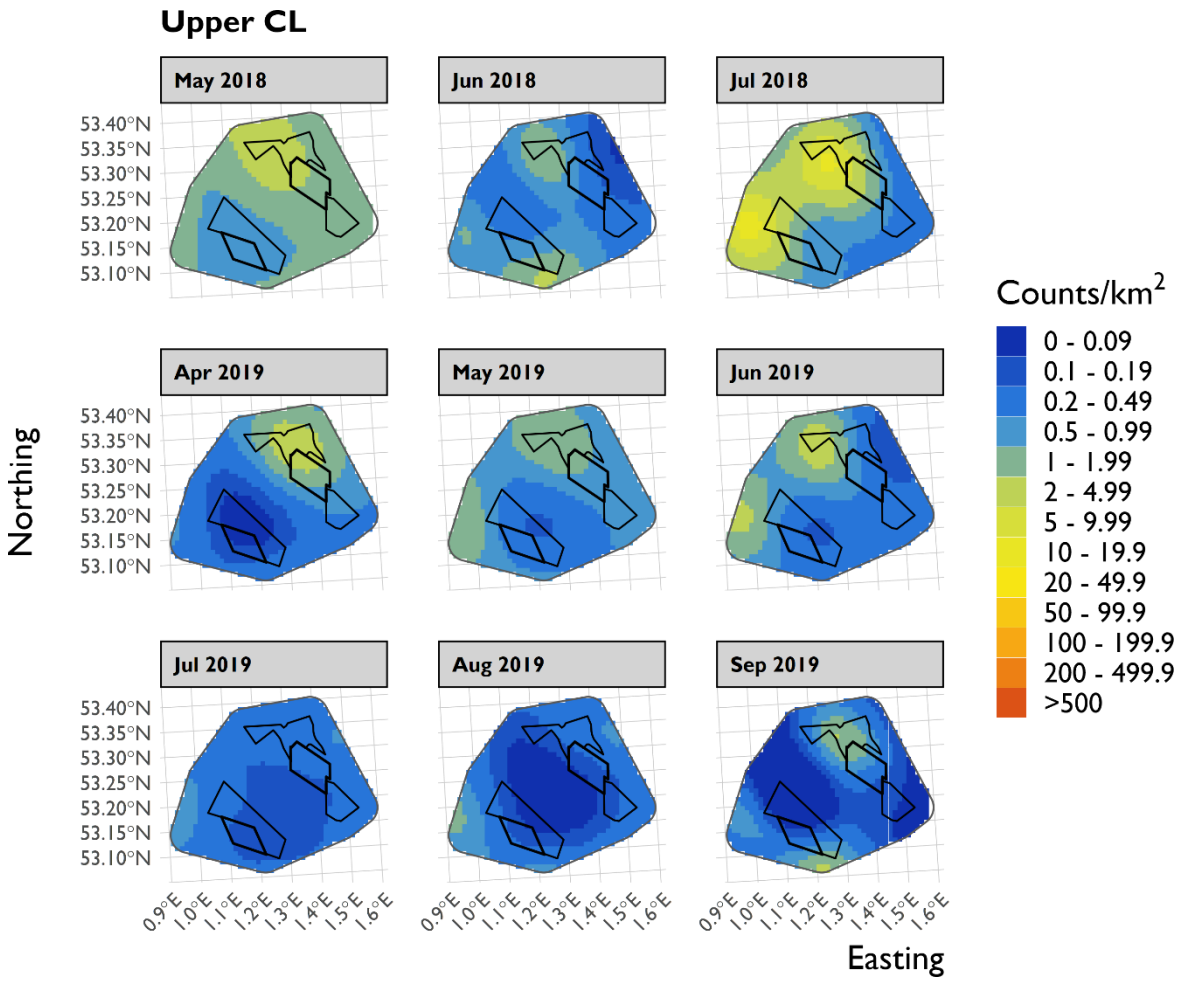


Figure 15 Upper confidence limits of predicted density surface of Sandwich terns from an MRSea model which only uses the spatial component of the data to make predictions. The boundaries of the existing and proposed extensions to windfarms are shown in black.



36 The spatial representations of coefficient of variation are consistent between both models that include environmental covariates (Figure 16 & Figure 17). Months with the highest levels of uncertainty include April, July, August, and September 2019, with the highest uncertainty in September 2019 (which is likely due fewer Sandwich tern observations available in this month). The model with no covariates, similarly, has the most uncertainty in the months of August and September 2019, but conversely, has very high values in June 2018 (Figure 18). Although the coefficient of variation is high in June 2018 for the other two models, it is particularly evident in the model with no covariates.

Figure 16 Coefficient of variation of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, distance to wind farm, and sea surface temperature gradient as variables. The boundaries of the existing and proposed extensions to windfarms are shown in black.

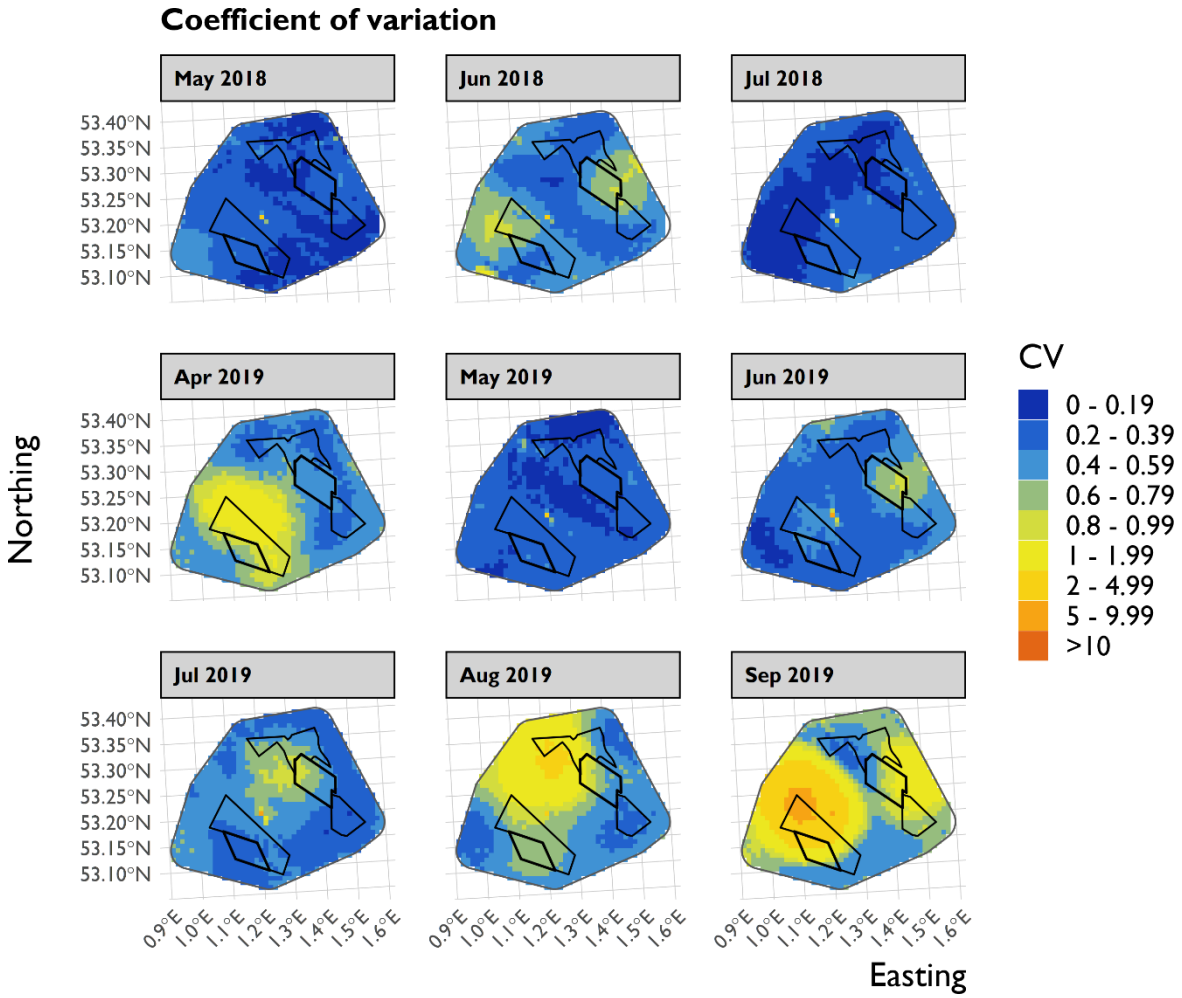


Figure 17 Coefficient of variation of predicted density surface of Sandwich terns from an MRSea model which uses bathymetry, bathymetric slope, and sea surface temperature gradient as variables. Empty (white) cells are those that were too high to be classified. The boundaries of the existing and proposed extensions to windfarms are shown in black.

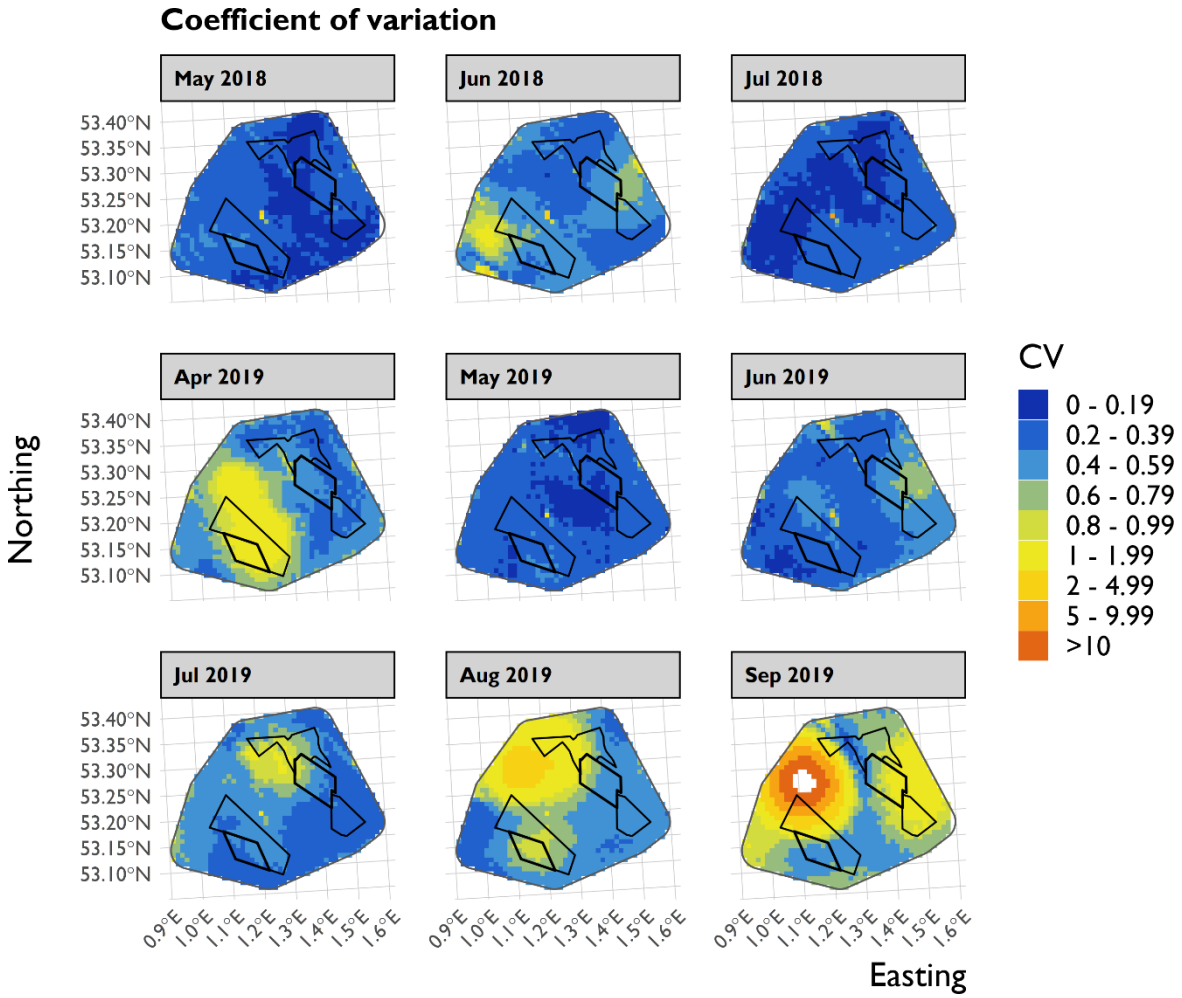
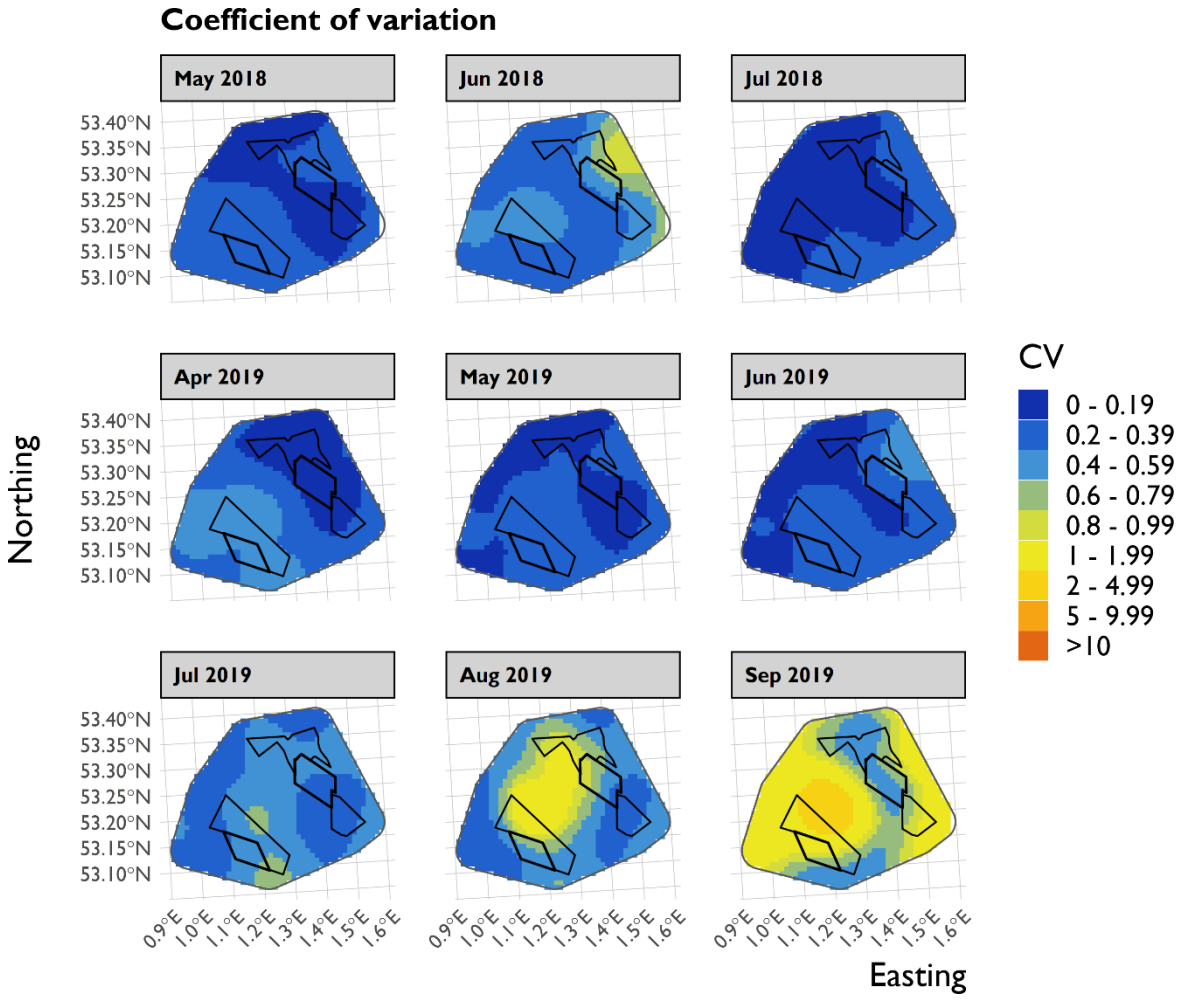


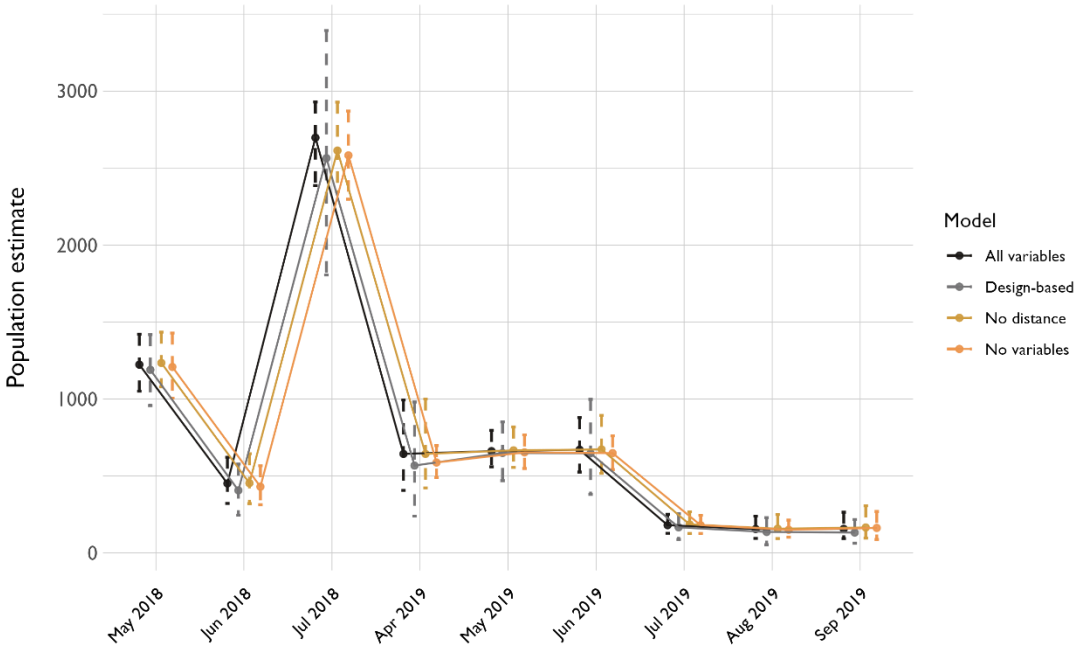
Figure 18 Coefficient of variation of predicted density surface of Sandwich terns from an MRSea model which only uses the spatial component of the data to make predictions. The boundaries of the existing and proposed extensions to windfarms are shown in black.



3.4 Population estimates

37 The mean and 95% confidence intervals of the design-based population estimates for each month were computed and compared against population estimates derived from the three MRSea models. In all cases, mean population estimates were nearly identical. All mean population estimates fell within the 95% confidence limits of each other. The model with no variables most consistently had the smallest confidence limits around the population estimates, particularly in April and June 2019. However, in almost all cases, the confidence limits from the MRSea models were tighter than those generated from the design-based estimates. The peak population estimate was in July 2018, which was very high when compared against all other months (Figure 19).

Figure 19 Comparison of population estimates derived from design-based methodology and MRSea



38 Population estimates from MRSea were derived for all month/year combinations (Table 4) except for Aug and Sep 2018 due to insufficient observations in those surveys. The only months that had CVs < 20% were May 2018, May 2019, and Jun 2019, likely due to variability in observations between surveys. High CVs could also be due to a combination of factors including irregular spatial distribution in relation to the environmental covariates, or a highly patchy distribution where flocking behaviour could lead to irregularities (i.e., many observations clumped in small regions).

Table 4 Population estimates derived from the bootstrapped MRSea results from a model using all variables for Sandwich tern. Predictions (and thus population estimates) were unable to be generated for Aug and Sep 2018 surveys, due to lower numbers of Sandwich tern observations and poorly resolved relationships between environmental covariates and those observations.

Survey	Density Estimate (n/km²)	Density Standard Deviation	Lower 95% Confidence Limit of Density	Upper 95% Confidence Limit of Density	Population Estimate (number)	Standard Deviation of Population Estimate (number)	Lower 95% Confidence Limit of Population Estimate (number)	Upper 95% Confidence Limit of Population Estimate (number)	CV (%)
May 2018	0.98	0.09	0.84	1.14	1223	113	1050	1420	9.24%
Jun 2018	0.36	0.09	0.26	0.5	451	109	321	621	24.17%
Jul 2018	2.17	1.51	1.92	2.35	2697	1881	2386	2929	69.74%
Apr 2019	0.52	0.13	0.33	0.8	643	165	406	993	25.66%
May 2019	0.53	0.07	0.45	0.64	661	91	559	796	13.77%
Jun 2019	0.54	0.09	0.42	0.71	670	118	525	879	17.61%
Jul 2019	0.14	0.07	0.1	0.2	180	89	127	251	49.44%
Aug 2019	0.12	0.07	0.08	0.19	155	93	94	239	60%
Sep 2019	0.13	0.08	0.07	0.21	156	95	93	264	60.90%

3.5 Hotspots

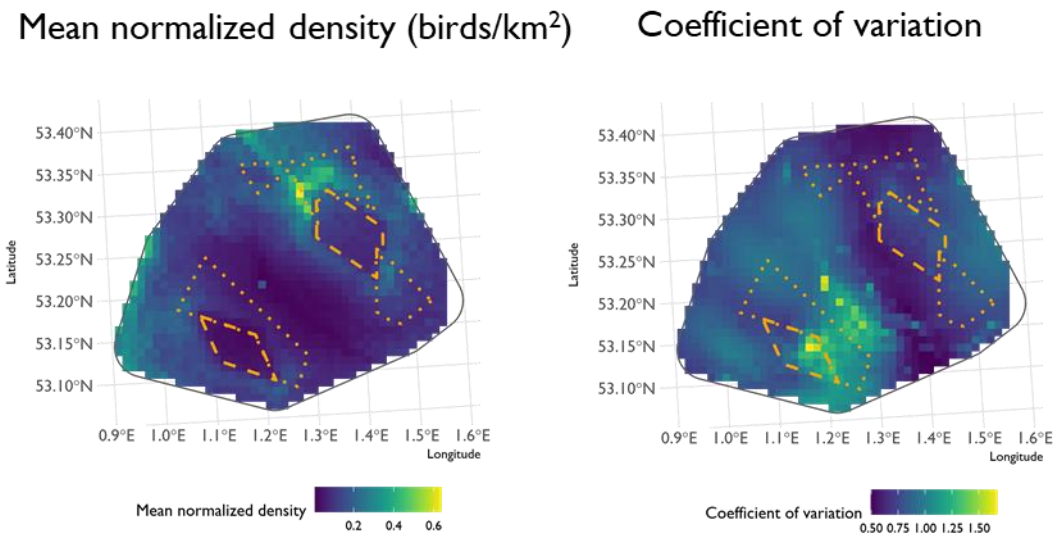
39 Because of the low sample size (i.e., 9 months) and natural variability of Sandwich tern in space and time (i.e., across seasons), the coefficients of variation were quite high and thus the lowest values (bottom 5th percentile) ranged from ~0.5 – 0.57. These values were representative of grid cells with the lowest variation across the 9 months for which predictions were made in the MRSea model. Moderate variability/persistent cells had values between 0.57 and 1.14, while the most variable grid cells had values greater than 1.14 (Table 5).

Table 5 Classification of mean normalized density and coefficient of variation of predicted surfaces based on 5th and 95th percentiles.

Metric	*Quantile*	*Range*	*Class*
Coefficient of variation	< 5th	0 – 0.57	Persistent
	> 5th < 95th	0.57 – 1.14	Moderate
	> 95th	1.14 +	Variable
Normalized mean	< 5th	0 – 0.029	Low
	> 5th < 95th	0.029 – 0.302	Moderate
	> 95th	0.302 +	High

40 Here, the hotspot analysis is presented in terms of the model that used all covariates. The mean normalized density (as computed by taking the mean of normalized density surfaces) surface shows a relative 'hotspot' in the northern section of the survey area (in the DEP-N region). The shape of this hotspot was partly due to the statistically significant relationship with distance to wind farm, which invariably affected how predictions were partitioned in space (Figure 20).

Figure 20 Mean normalized density and coefficient of variation of all MRSea density surfaces using a model that contained all covariates. The orange dashed lines represent existing developments and orange dotted lines represent proposed developments.



41 No high or low and persistent regions were identified in the analysis (Figure 21). This is likely due to the low sample size and general variability of the distribution of birds between months. A variable hotspot was identified in the northern part of the aerial survey study area (i.e., in the region of the DEP-N), while a variable cold spot was identified just East of the SEP. The cold spot is suggestive of a potential barrier effect by the existing Sheringham Shoal OWF between breeding sites at Scolt Head and Blakeney Point, and foraging areas. Several persistent areas with moderate densities were identified in a central band through the survey area

42 The identified hotspots (although variable in nature) had a mean true density of 1.78 birds/km^2 and mean coefficient of variation of 0.66, while the cold spot (i.e., low densities) had a mean true density of 0.25 birds/km^2 with a mean coefficient of variation of 1.05 (Table 6).

Figure 21 Hot and cold spots identified by classification of the normalized mean density surface and coefficient of variation derived from an MRSea model using all covariates. Black dashed lines show existing wind farm developments, and dotted lines show proposed developments.

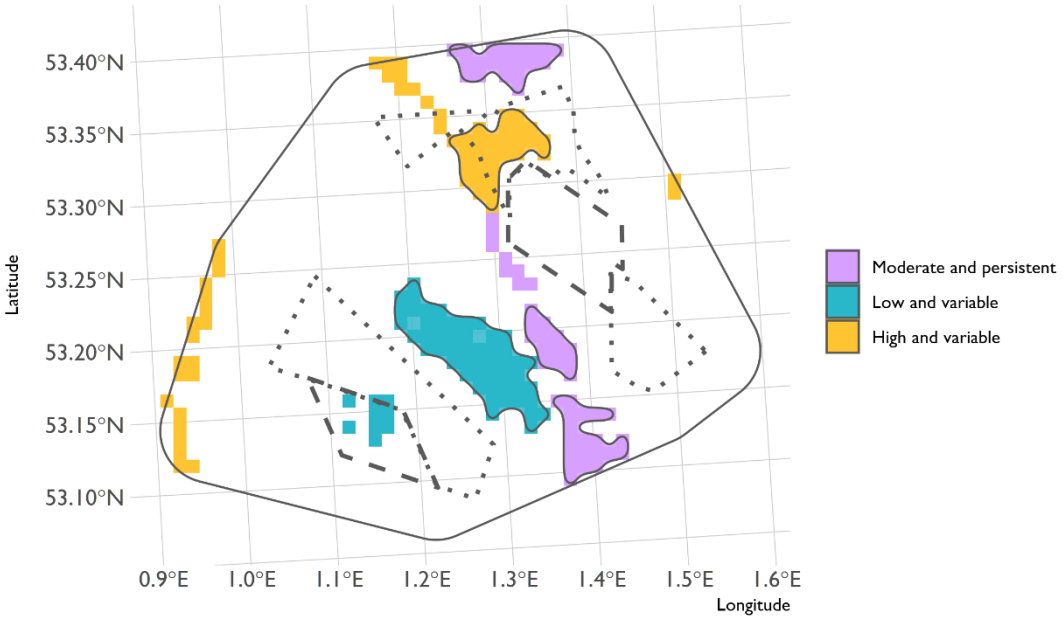


Table 6 Mean values of the true mean density (i.e., not normalized) and coefficient of variation (CV) in regions highlighted in the hotspot analysis (i.e., Figure 21).

Level	*Mean Density*	*CV*
Moderate and persistent	0.38	0.54
Low and variable	0.25	1.05
High and variable	1.78	0.66

3.6 Displacement

43 No particular patterns in mean aggregated observations were apparent across the sequential 1km buffers around both wind farms. This suggests that displacement was limited to the windfarm footprint alone and not out to the 2 km that was alluded to in the MRSea analysis (Figure 5).

44 For both the Sheringham shoal and Dudgeon wind farm regions, there were typically lower mean counts within the windfarm footprint. However, in subsequent buffer regions, mean aggregated counts were not particularly different from the background mean count or mean counts in other buffers (Figure 22 and Figure 23).

45 Because the MRSea model with all variables included distance to windfarm, and the assumed relationship in that model suggested that densities of terns increased from 0 – 2 km from the windfarm, the MRSea

outputs were not used in this analysis. The predicted outputs from the MRSea model would inherently include that signal and so this buffer analysis would lead to a misinterpretation of displacement; the raw aggregated observations are therefore the most appropriate data for this analysis.

Figure 22 Mean aggregated counts (plus upper and lower confidence limits) within sequential buffers around the Dudgeon offshore wind farm starting with the windfarm footprint (0 km) and moving outwards. Black solid lines represent the background mean aggregated counts outside of the 7 km buffer zones for both Sheringham shoal and Dudgeon wind farms.

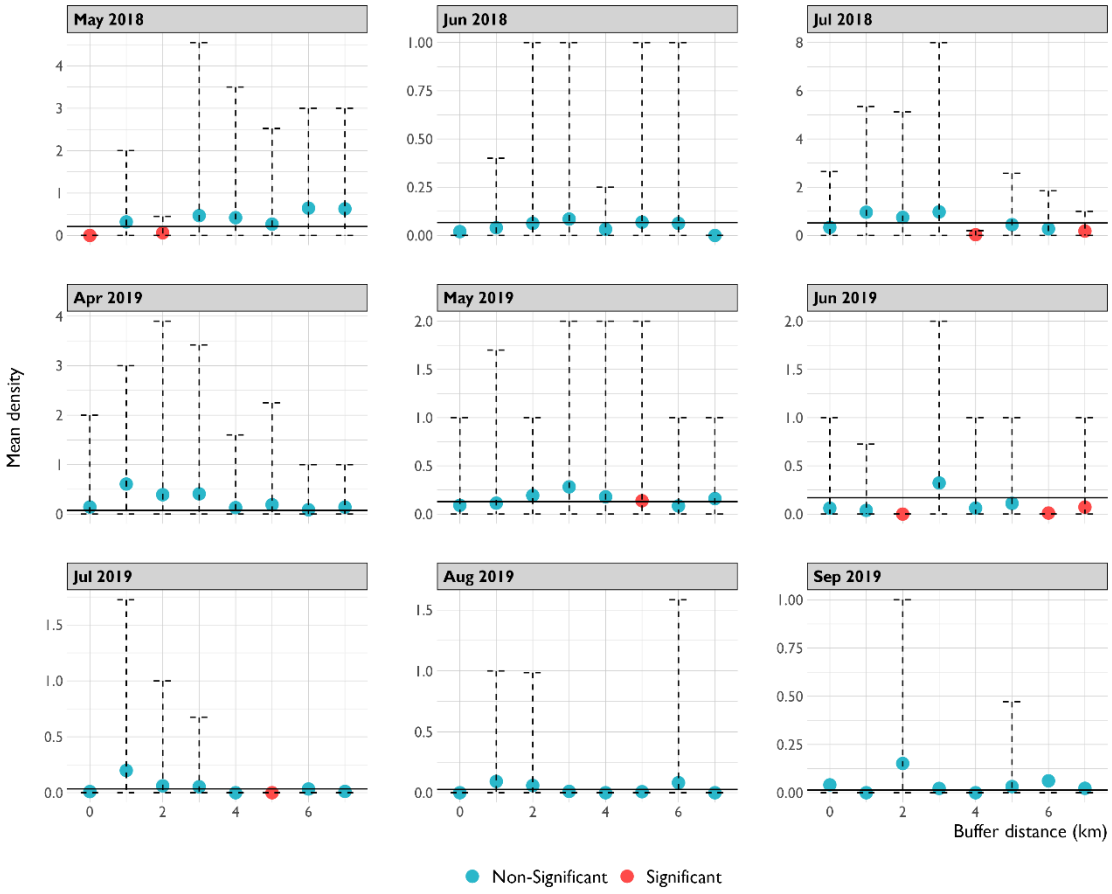
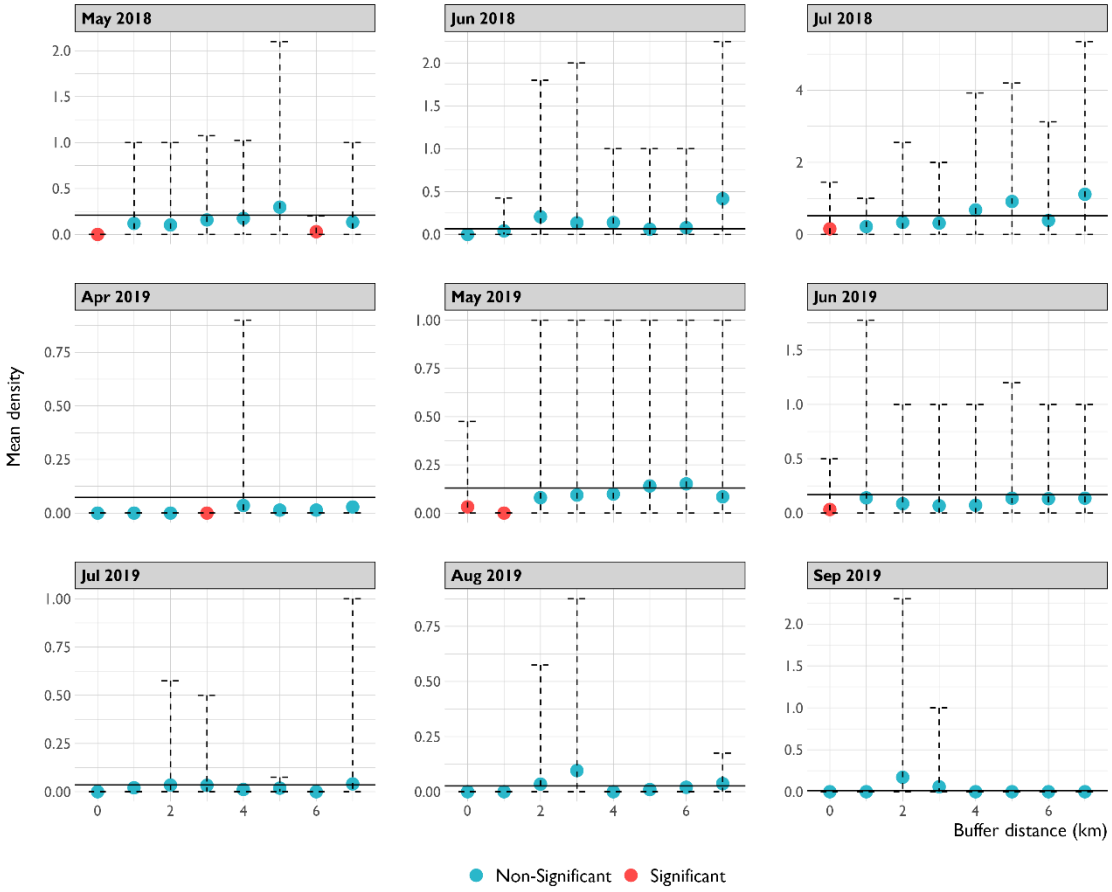


Figure 23 Mean aggregated counts (plus upper and lower confidence limits) within sequential buffers around the Sheringham shoal offshore wind farm starting with the windfarm footprint (0 km) and moving outwards. Black solid lines represent the background mean aggregated counts outside of the 7 km buffer zones for both Sheringham shoal and Dudgeon wind farms.



46 In all but two cases (April and September 2019 in the Dudgeon offshore windfarm), the background densities of Sandwich tern in the wider region were higher than those within the windfarm footprints. The mean percent difference between densities in and outside of the Sheringham shoal windfarm footprint was 91.78%, while the mean percent difference in and outside of the Dudgeon windfarm footprint was 20.89%. However, the mean percent difference for the Dudgeon windfarm footprint was heavily influenced by the two months where mean densities were higher within the footprint; removing those two values from the mean calculation would give a mean percentage difference of 67.29%.

Table 7 Mean and standard deviation (in brackets) of observation densities within the Sheringham shoal (SOW) and Dudgeon (DOW) offshore windfarm footprints versus background densities of Sandwich tern in the larger study area

Survey month	*SOW*	*DOW*	*Background*	*SOW difference (%)*	*DOW difference (%)*
May-18	0 (0)	0 (0)	0.21 (0.56)	-100	-100
Jun-18	0 (0)	0.02 (0.14)	0.07 (0.3)	-100	-70
Jul-18	0.16 (0.57)	0.33 (0.88)	0.52 (1.06)	-70	-36
Apr-19	0 (0)	0.14 (0.56)	0.07 (0.54)	-100	+95
May-19	0.03 (0.18)	0.09 (0.35)	0.13 (0.4)	-75	-30
Jun-19	0.03 (0.18)	0.06 (0.24)	0.17 (0.64)	-81	-64
Jul-19	0 (0)	0.01 (0.1)	0.03 (0.25)	-100	-71
Aug-19	0 (0)	0 (0)	0.03 (0.2)	-100	-100
Sep-19	0 (0)	0.04 (0.29)	0.01 (0.11)	-100	+188

4 Discussion & Conclusion

47 The MRSea method is a useful tool for quantifying space-use based on transect survey methodology. In this case, it was used to construct density surface models for Sandwich tern in the Sheringham Shoal and Dudgeon region. The main aims of this analysis were to: 1) construct MRSea models for Sandwich tern at a monthly resolution from the digital video aerial surveys using three combinations of environmental covariates to compare results, and 2) perform a hot/cold spot analysis using the MRSea outputs from the most appropriate model.

48 One of the advantages of MRSea is in the CRESS method, which incorporates the point process (i.e., the spatial distribution of the observations) as a parameter. This essentially allows for the observational data to be smoothed across the study area to generate predicted density surfaces. CRESS has been shown to be a superior smoothing method when densities are highly variable in space (Scott-Hayward et al. 2013b).

49 Comparing the three MRSea models provides insights into how the spatial (CRESS) process works within the method. The model that contains all variables looks to be more "resolved" than the other two (i.e., more detailed; Figure 7 - Figure 9), perhaps not surprisingly as there are more variables from which to generate predictions. What is apparent is that the statistically significant relationship with distance to wind farm (Table 3) has generated predictions that trace the outline of the existing wind farm footprints, this is most visible in Figure 7 (May 2018, April 2019, and May 2019). The best illustration of the problem with these spatial patterns is in May 2018 (Figure 3 and Figure 7). For example, on the southwest edge of the Dudgeon wind farm footprint, there are no observations of Sandwich tern, however the model smooths values in the surface so that densities of ~1 – 1.99 birds/km^2 are predicted there, which is a result of the existence of the footprint. This suggests the existence of artefacts due to the wind farm footprint inclusion as a variable. However, it should be noted that the lack of observations in general throughout the wind farms (Figure 2) leads to the conclusion that there is likely some level of displacement at least in certain times of the year.

50 The MRSea model that used no variables (i.e., only the spatial parameter) produced surfaces that appear aesthetically much like standard kernel density estimates. Broadly, the wider hotspots are highlighted in these predicted outputs, but there is little definition around the predictions (Figure 13). The model which contained no distance to wind farm variable had more definition in terms of the predicted outputs (compared to just the spatial covariate) but smooths the predictions through part of the Dudgeon wind farm footprint and does not incorporate the immediate impact the wind farms would have. For future modelling efforts, some investigation into how to better incorporate the distance effects (i.e., through cost layers or weightings) would be warranted; however, it should be noted that it is unlikely to affect population estimates that would be used for downstream processes in the assessment phase.

51 In terms of the mean population estimates that are derived from MRSea, there was very little difference when compared between models and the design-based method (Figure 19). The 95% confidence limits around the estimates using the design-based method were typically wider than the MRSea models, but a notable feature of this comparison was that the model with the tightest confidence limits was the model which had no environmental covariates incorporated. This is likely because there was no environmental stochasticity incorporated into this model, thus leading to more stable population estimates between MRSea bootstraps. This is despite the fact that the "best" model (if only looking at the statistical metrics of model fit) was that which had all environmental covariates (Table 2). Care must therefore be taken when making any assumption that tighter confidence limits indicate higher quality models or population estimates; full context of the model used is required.

52 The hotspot analysis identified no persistent cold or hotspots, likely due to the fact that there were only a limited number of underlying surfaces (9 months), of which the broad spatial patterns were variable (e.g., due to season, time of surveys, or the biological characteristics of the species under consideration). Areas of moderate and persistent densities were identified but all were outwith the existing and proposed development areas. Sandwich tern is a highly dynamic species. The only areas which had persistent relative densities (i.e., high or low) was a band that extends North to South along the centre of the aerial survey study area, and these areas only had moderate densities (as defined by the classification technique).

53 The MRSea partial dependence plots from the model which included all variables suggested a 2km displacement effect on Sandwich tern. However, an investigation into the raw observations in subsequent 1km buffers around each of the two active wind farms showed that this relationship was likely spurious, and no displacement effect exists outside of the wind farm footprints.

54 An important consideration is the incorporation of and reliance on environmental covariates for making mechanistic or predictive inference in the model. In any form of ecological niche model (e.g., a density surface model that uses environmental covariates to quantify abundance), there is a need to understand the biophysical requirements of a species to make predictions on where it occurs (and in what abundance) in space and time (Kearney 2006). In wide ranging species, this requires spatio-temporal sampling that appropriately covers a large proportion of the ecological niche.

55 Although there are no rules on the amount of coverage required to adequately capture the niche of a species, the concept of sampling bias (driven by either where data are acquired or how much data are acquired), is a well-known phenomenon (Costa *et al.* 2010, Hughes *et al.* 2021, Jones *et al.* 2021, Qiao *et al.* 2017). Sampling bias will invariably impact on interpretations of any model generated using sampled distributions and environmental covariates.

56 The Sheringham Shoal and Dudgeon area is approximately 1250 km^2 and covers a small portion of the entire home range of the Sandwich tern (approximately 10%, assuming a maximum foraging range of 80km from Blakeney Point and Scolt Head (Woodward *et al.* 2019)). Thus, spatial sampling bias is an issue for these models (even though temporally, there seems to be some reasonable coverage). Relying on the environmental covariates for any prediction outside of the envelope of the survey area, or for any mechanistic inference is therefore unlikely to be meaningful. This is somewhat evident from the cumulative residual plot for bathymetry (Figure 5), and the explanatory power of the model (Table 2).

57 Maps of the coefficient of variation demonstrate which areas and surveys of the study region have the least confidence. The reason for these high CVs is likely due to the spatial distribution of the observational data. Patchy distributions will likely lead to GAM splines (i.e., those generated in the CRESS process) significantly overpredicting in some bootstrap realisations. This would lead to extreme variability between those realisations and thus high CVs and less confidence in the predictions of density in those regions. The most egregious month in all MRSea models was September 2019, likely driven by fewer observations of birds in those surveys.

58 An investigation into displacement in and outside of the windfarm using sequential 1km buffers showed that there was unlikely any displacement of Sandwich terns outside of the windfarm footprint. This was contrary to the partial dependence plots of MRSea outputs which suggested some level of displacement. Such investigations highlight the need to be cautious when interpreting the partial dependence plots from density surface models. Comparing densities inside and outside the windfarm footprints showed displacement within windfarms potentially on the order of 67 to 91%.

5 References

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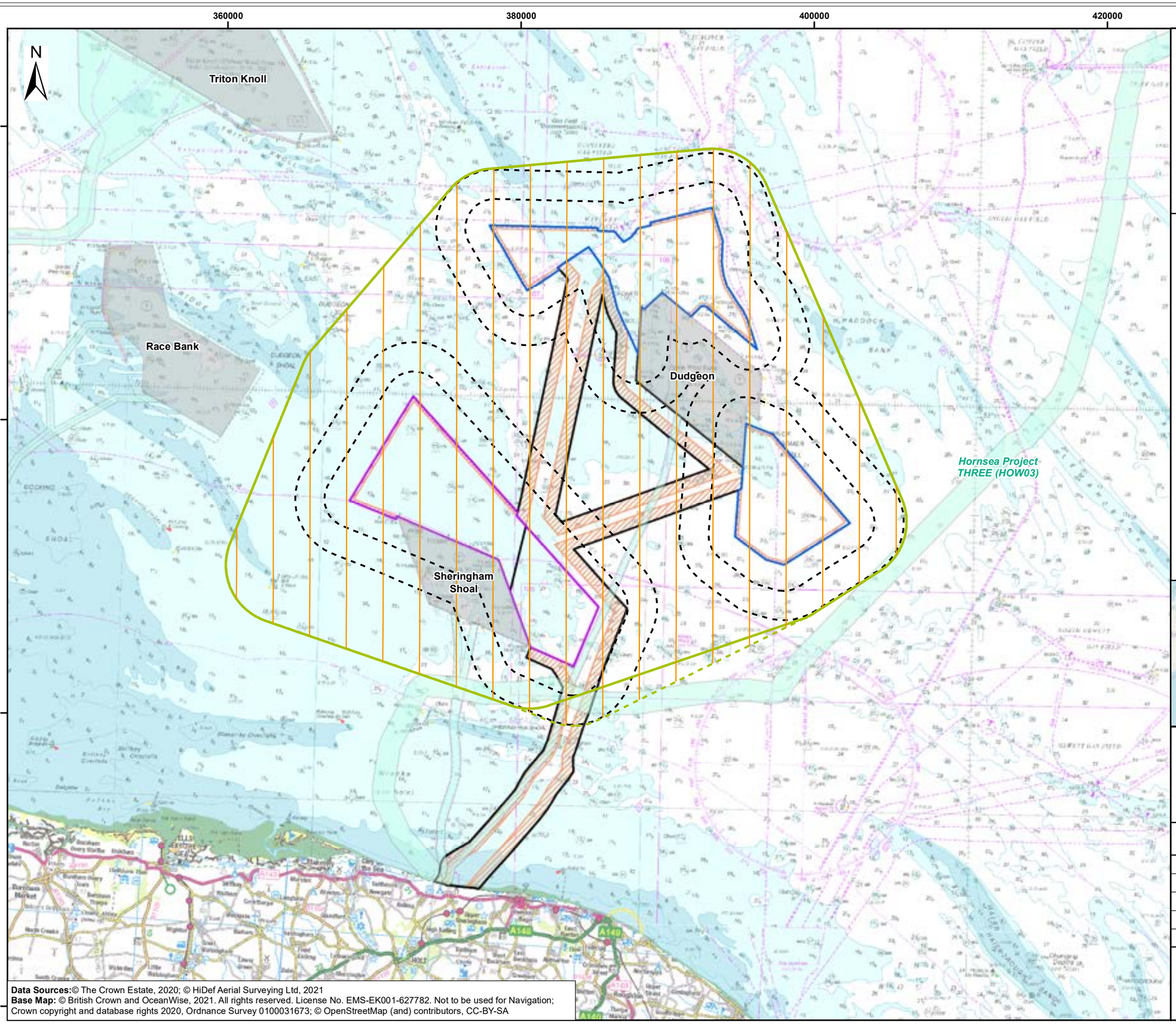
11.1.12 ANNEX 8 Band Model Spreadsheets used to Calculate Collision Risk Modelling (Available on Request from the Applicant)

11.1.13 ANNEX 9 Population Viability Analysis Methodology and Input Parameters (Available on Request from the Applicant)

11.1.14 ANNEX 10 Figures



Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.1 Aerial survey study area, survey transects, and design-based density estimate reporting regions

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable Corridor
- Survey Transects
- Aerial Survey Study Area
- Extended Aerial Survey Study Area
- Reporting Regions (2km and 4km Buffers)

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 4 8 12 16 km
0 4 8 Miles

Scale: 1:250,000 Scale at size: A3

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RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0235

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A	19/05/2022	First Issue	AZ	RI	PM

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5960000 5940000 5920000 5900000 5880000 5860000 5840000

N

Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.2 Sandwich tern utilisation distributions from DOW tracking study: 2016, all behaviours

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- In Planning
- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0214

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N

Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.3 Sandwich tern utilisation distributions from DOW tracking study: 2017, all behaviours

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- In Planning
- Under construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0215

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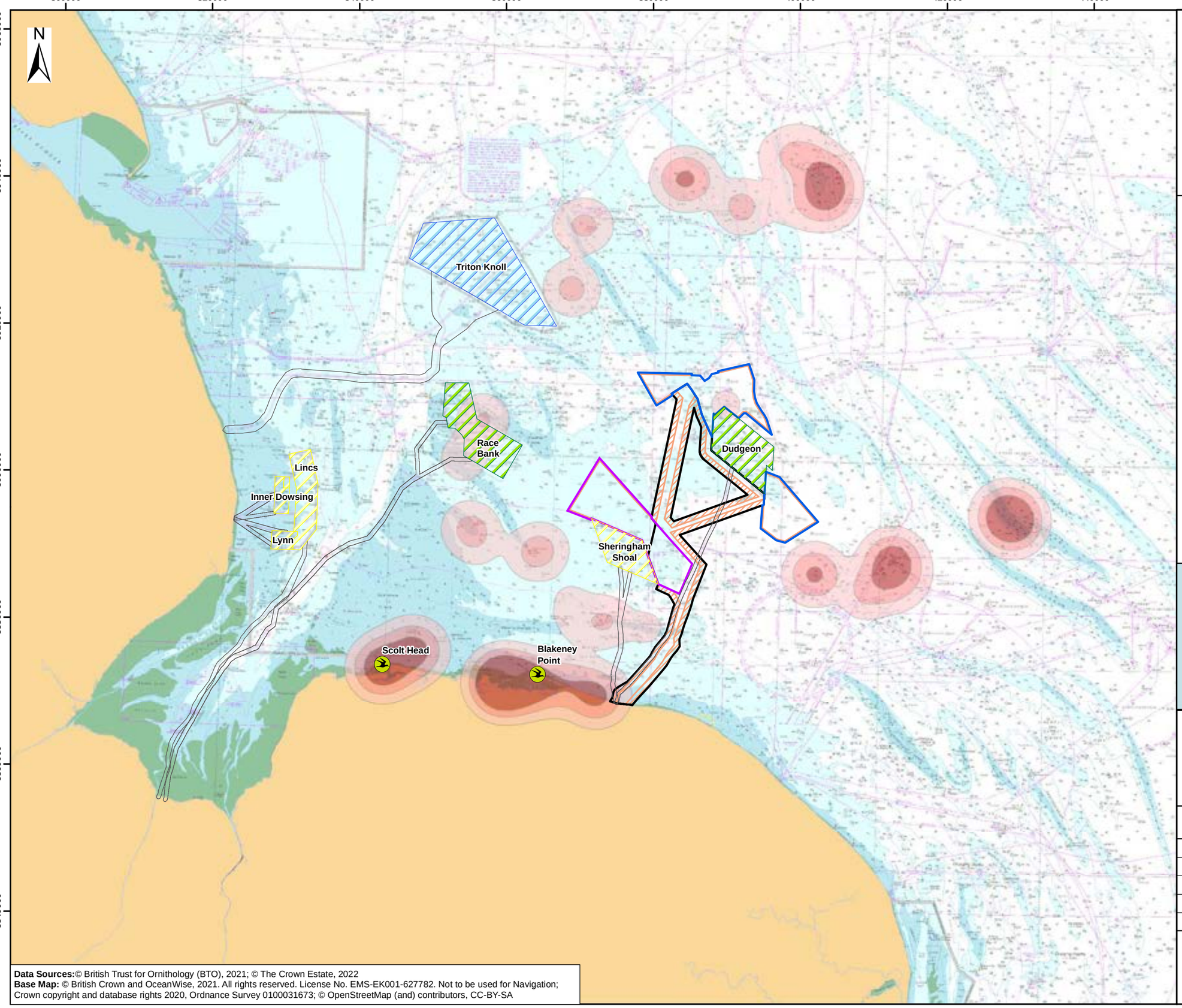

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.4 Sandwich tern utilisation distributions from DOW tracking study: 2017, all behaviours excluding commuting

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- In Planning
- Under construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0216

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300000 320000 340000 360000 380000 400000 420000 440000

5960000 5940000 5920000 5900000 5880000 5860000 5840000

N

Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.5 Sandwich tern utilisation distributions from DOW tracking study: 2017, commuting only

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- In Planning
- Under construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0217

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5960000 5940000 5920000 5900000 5880000 5860000 5840000

N

Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.6 Sandwich tern utilisation distributions from DOW tracking study: 2018, all behaviours

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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REV	DATE	STATUS	DRW	CHK	APR
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5960000 5940000 5920000 5900000 5880000 5860000 5840000

N

Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.7 Sandwich tern utilisation distributions from DOW tracking study: 2018, all behaviours excluding commuting

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0219

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A	19/05/2022	First Issue	AZ	RI	AP

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5960000 5940000 5920000 5900000 5880000 5860000 5840000

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Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.8 Sandwich tern utilisation distributions from DOW tracking study: 2018, commuting only

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0220

REV	DATE	STATUS	DRW	CHK	APR
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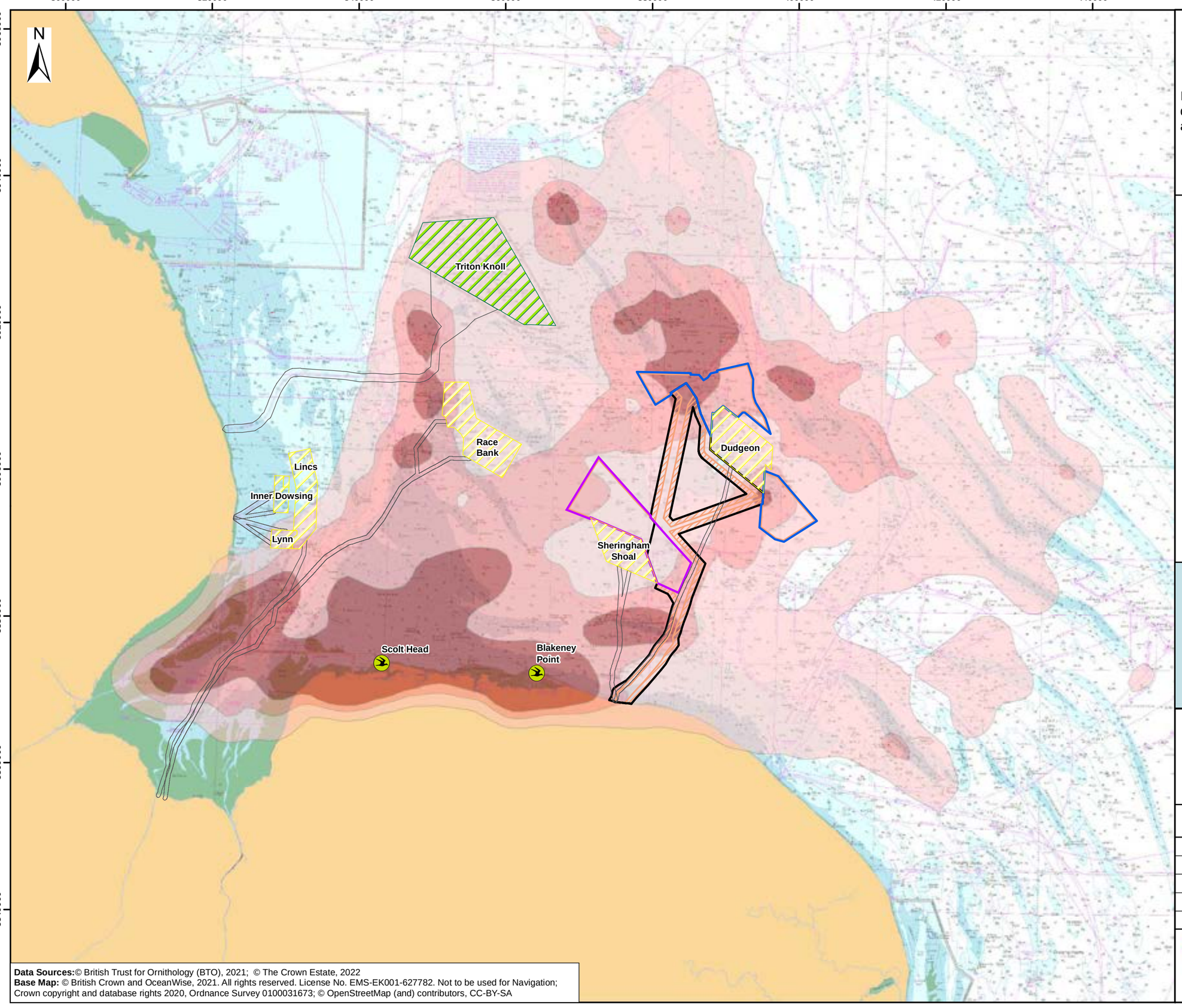
Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.9 Sandwich tern utilisation distributions from DOW tracking study: 2019, all behaviours

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1



Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0221

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5960000 5940000 5920000 5900000 5880000 5860000 5840000

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Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.10 Sandwich tern utilisation distributions from DOW tracking study: 2019, all behaviours excluding commuting

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0222

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Triton Knoll

Race Bank

Lincs

Inner Dowsing

Lynn

Dudgeon

Sheringham Shoal

Scolt Head

Blakeney Point

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.11 Sandwich tern utilisation distributions from DOW tracking study: 2019, commuting only

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Breeding Bird Colony

Other Offshore Windfarms

- Under Construction
- Active/In Operation
- Other Wind Farm Cable Corridor

Sandwich Tern Distribution (KDE)

- 50 %
- 75 %
- 95 %

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 30 km
0 10 20 Miles

Scale: 1:500,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0223

REV	DATE	STATUS	DRW	CHK	APR
A	19/05/2022	First Issue	AZ	RI	AP

360000 370000 380000 390000 400000 410000

5920000 5910000 5900000 5890000 5880000 5870000

N

Triton Knoll

Race Bank

Dudgeon

Sheringham Shoal

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Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.12 Arctic skua records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Triton Knoll

Race Bank

Dudgeon

Sheringham Shoal

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Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.13 Arctic tern records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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5920000 5910000 5900000 5890000 5880000 5870000

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Triton Knoll

Race Bank

Dudgeon

Sheringham Shoal

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Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.14 Black-headed gull records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

A	19/05/2022	First Issue	AZ	RI	PM
REV	DATE	STATUS	DRW	CHK	APR

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Triton Knoll

Race Bank

Dudgeon

Sheringham Shoal

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Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.15 Common gull records from baseline surveys

Document:
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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Sheringham Shoal

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Title:

Figure 11.16 Common scoter records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.17 Common tern records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.18 Cormorant records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.19 Fulmar records from baseline surveys

Document:

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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Sheringham Shoal

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Title:

Figure 11.20 Gannet records from baseline surveys

Document:

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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Dudgeon

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Title:

Figure 11.21 Great black-backed gull records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.22 Great skua records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.23 Guillemot records from baseline surveys

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Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.24 Herring gull records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.25 Kittiwake records from baseline surveys

Document:

Environmental Statement (ES)
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Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.26 Lesser black-backed gull records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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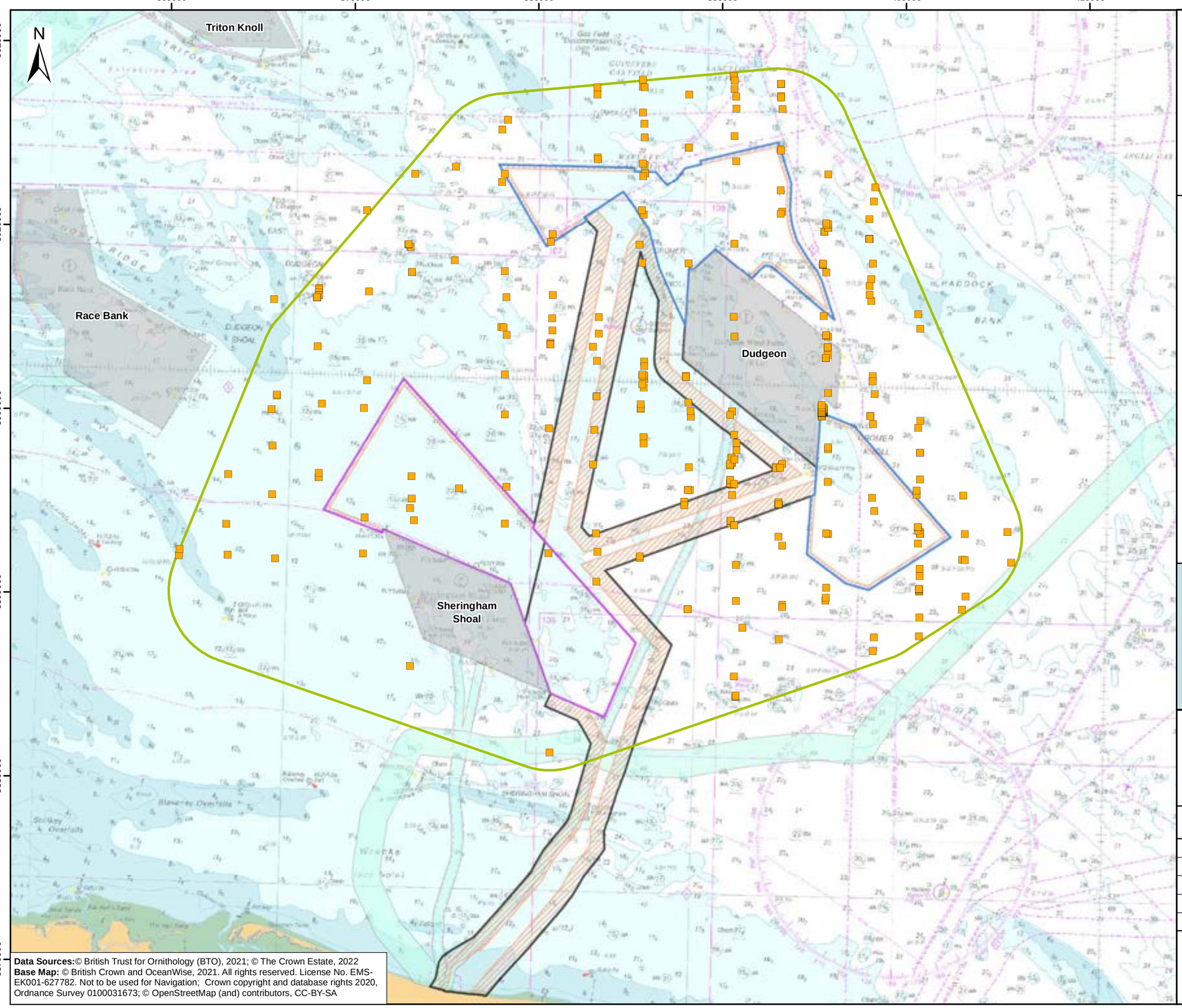

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.27 Little gull records from baseline surveys

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
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- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.28 Little tern records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
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- Bird Observation Point

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Transformation WGS84: OSGB_1936_To_WGS_1984_7

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0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.29 Manx shearwater records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
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Coordinate Reference System: WGS 1984 UTM Zone 31N
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0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.30 Puffin records from baseline surveys

Document:
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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.31 Razorbill records from baseline surveys

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

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Title:

Figure 11.32 Red-throated diver records from baseline surveys

Document:
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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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Title:

Figure 11.33 Sandwich tern records from baseline surveys

Document:
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Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
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Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
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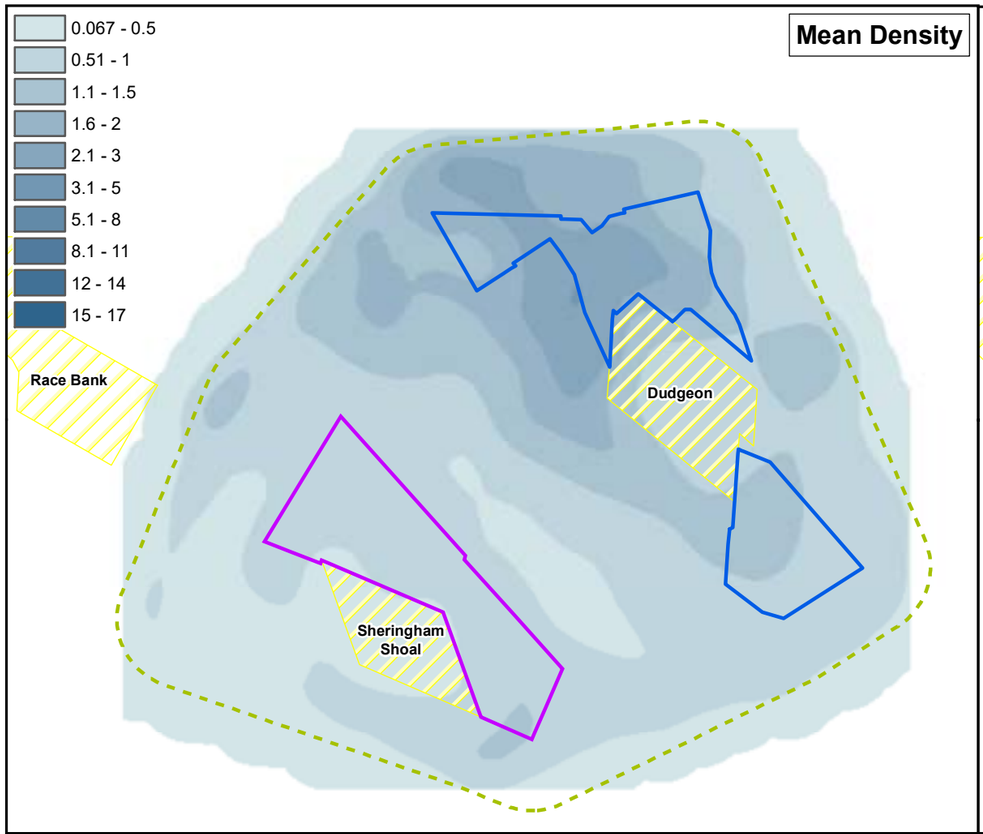

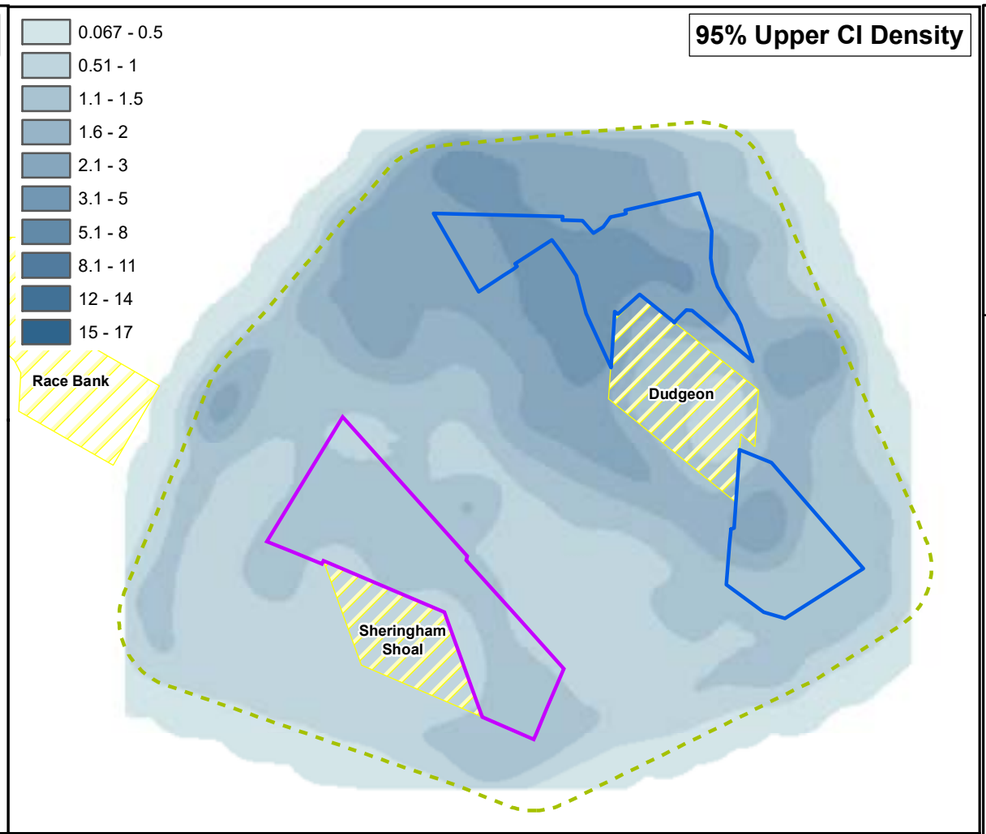

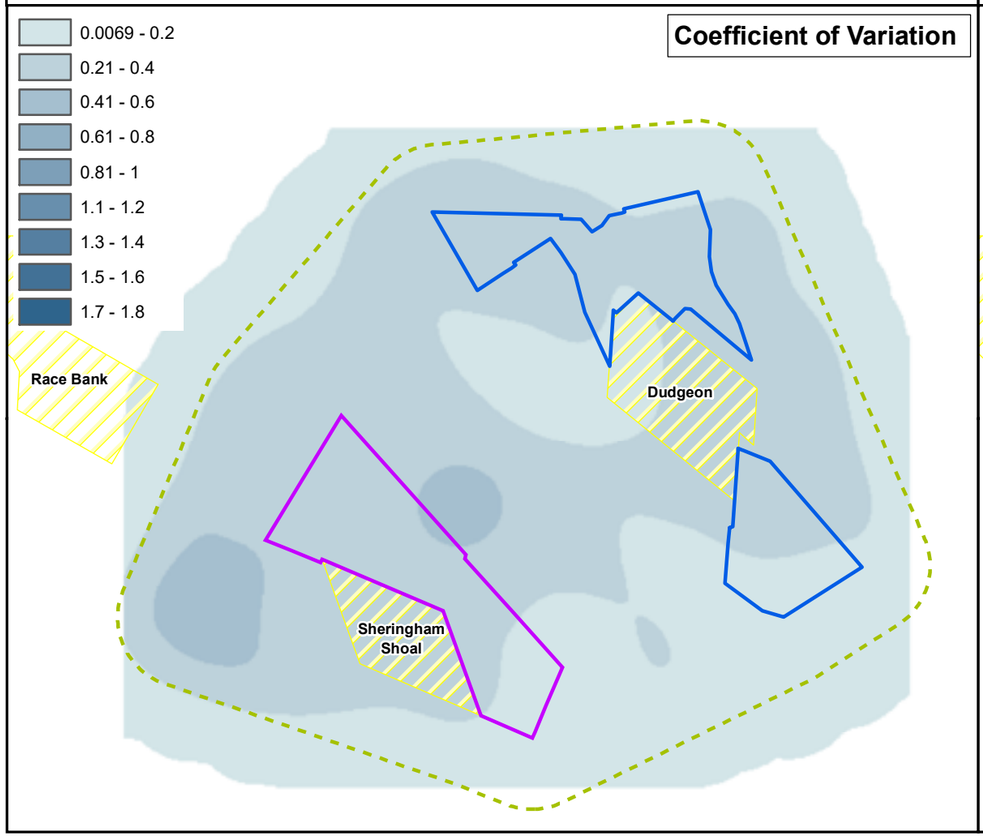

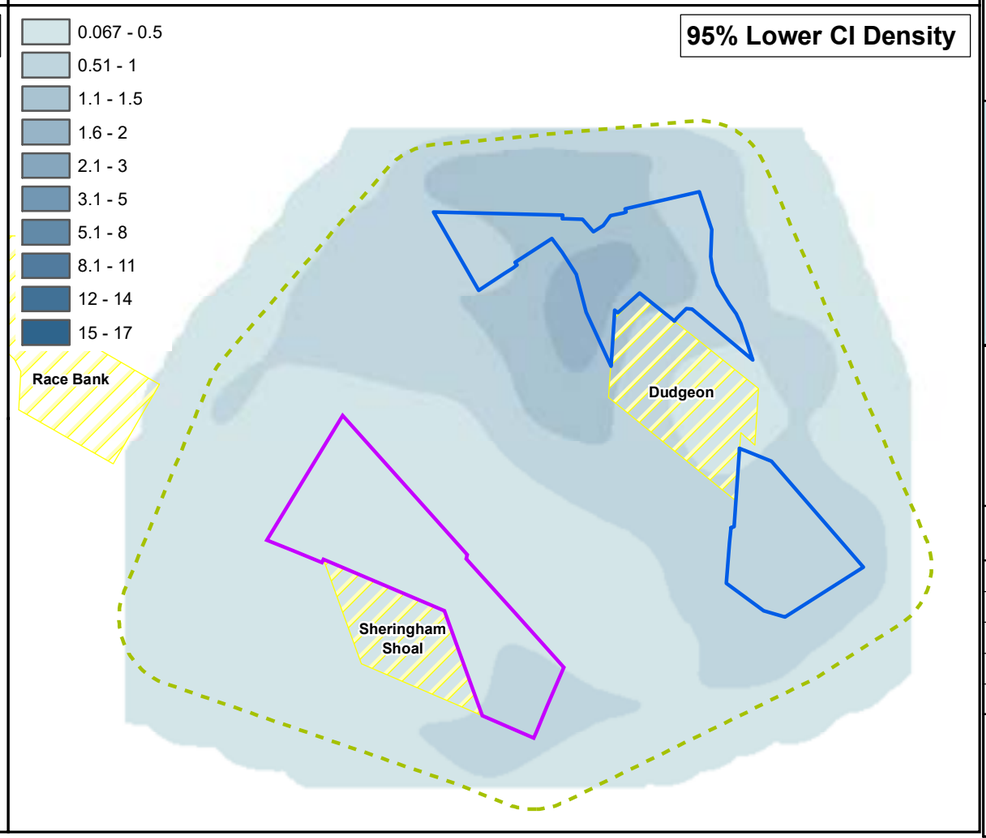

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.34a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study Area

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0237

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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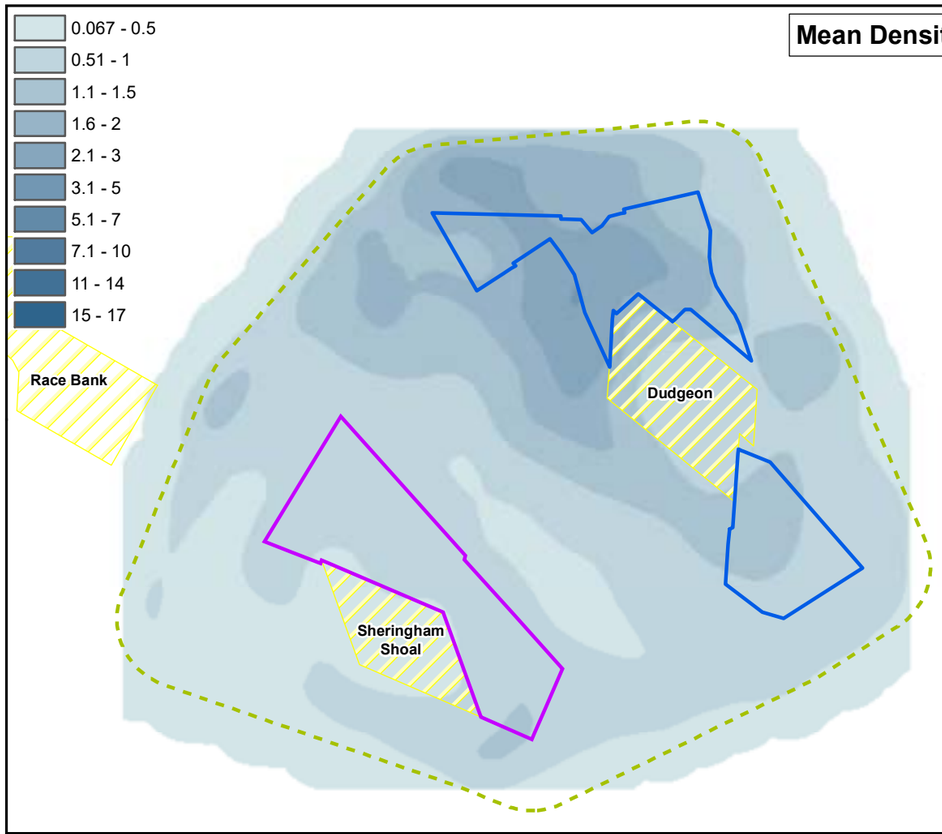

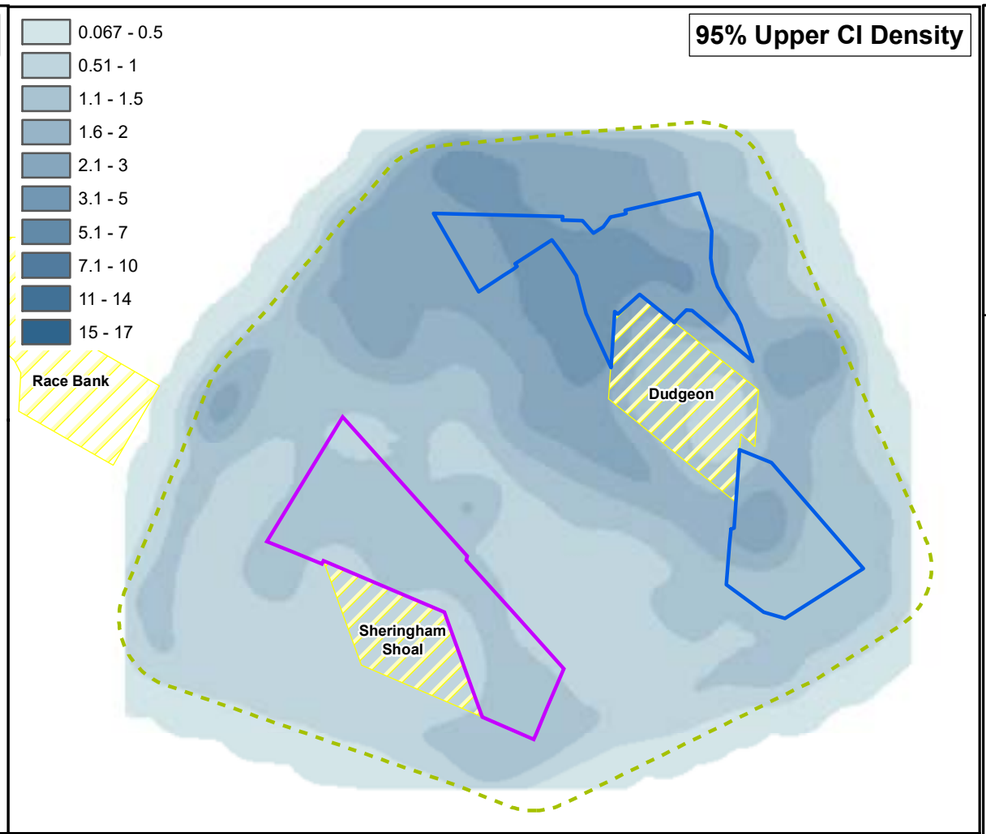

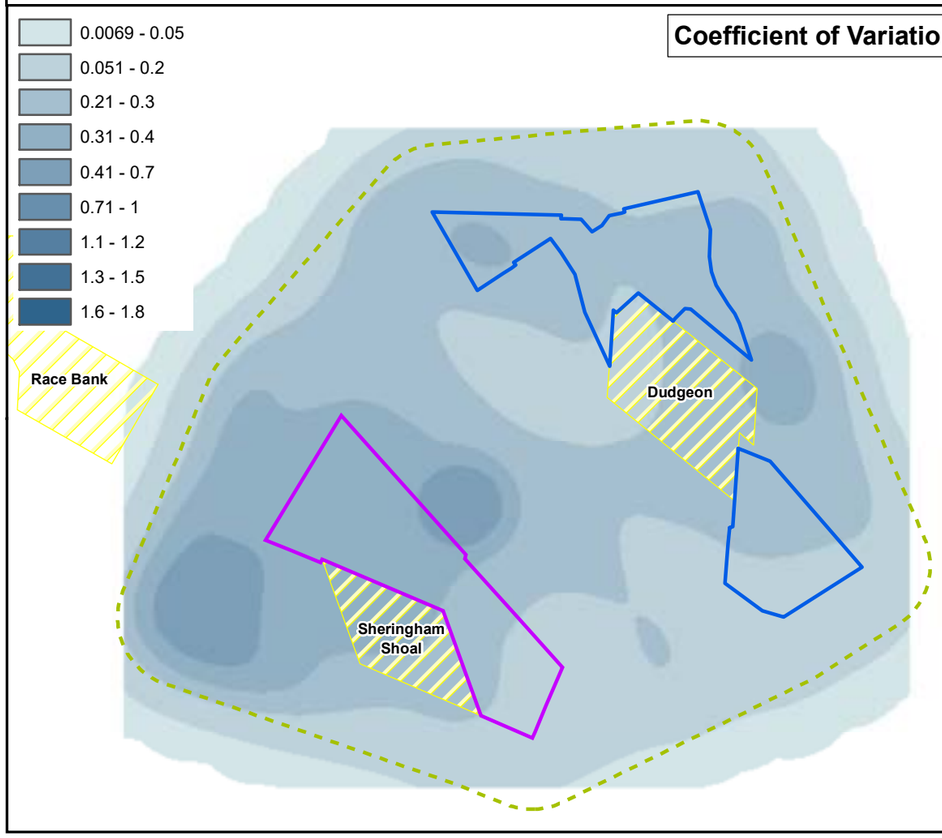

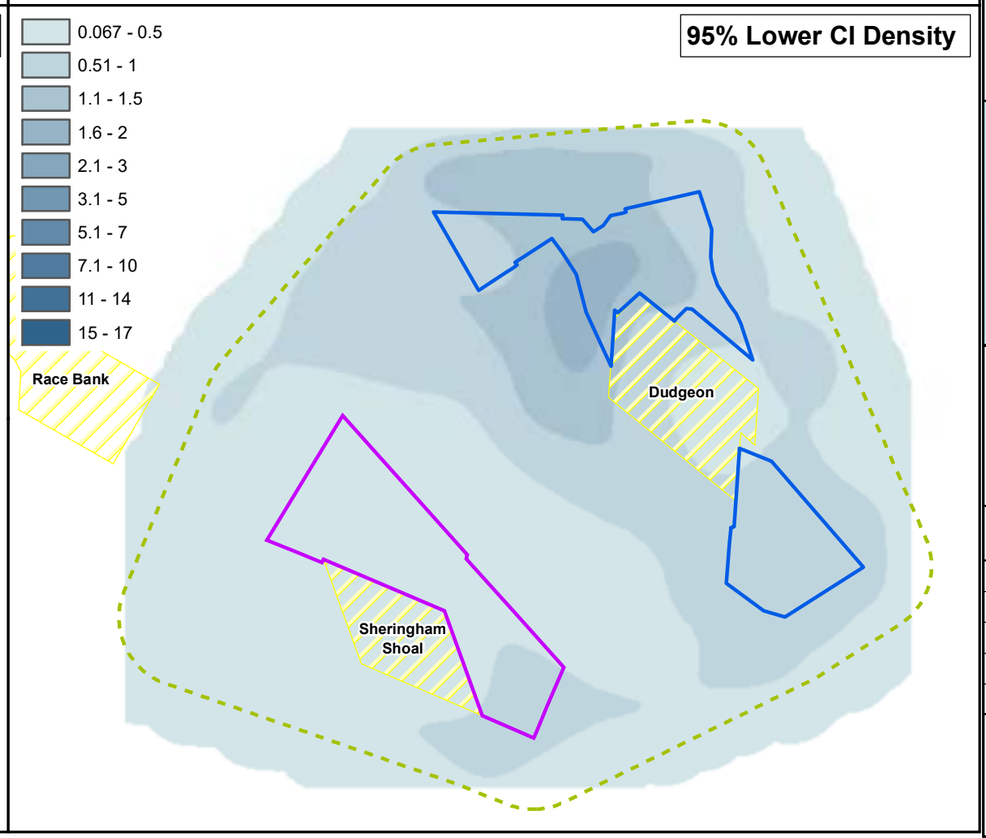

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.34b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

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- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study Area

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0251

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A	13/06/2022	First Issue	GC	RI	AP

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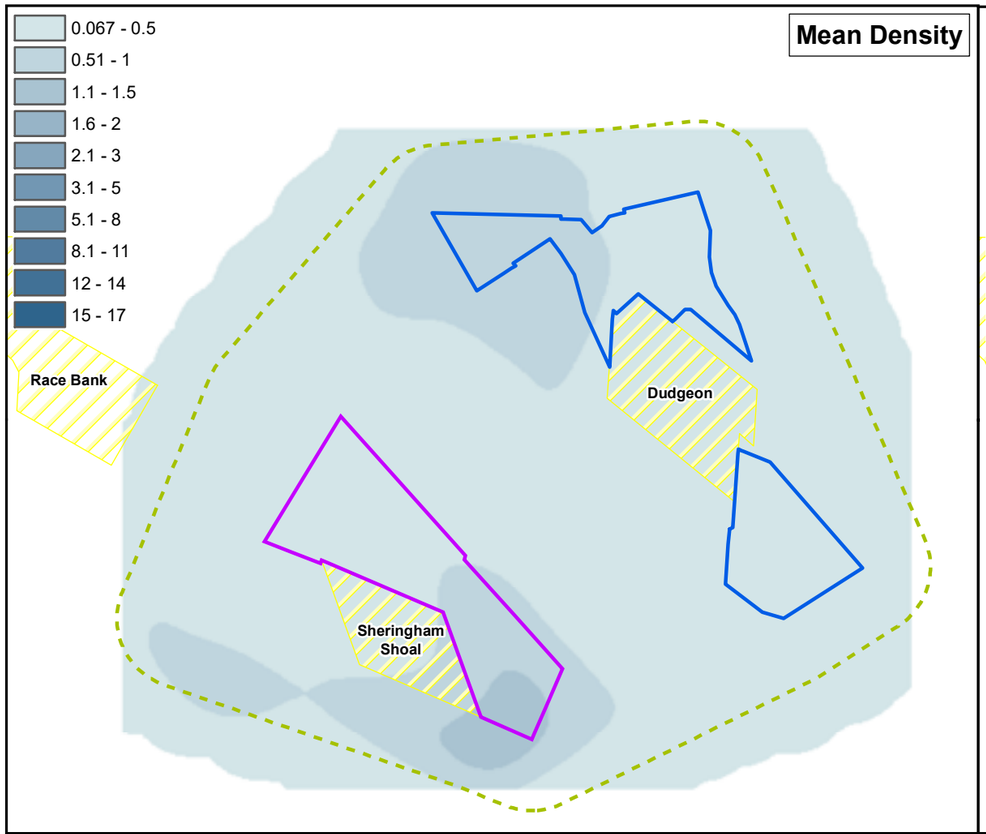

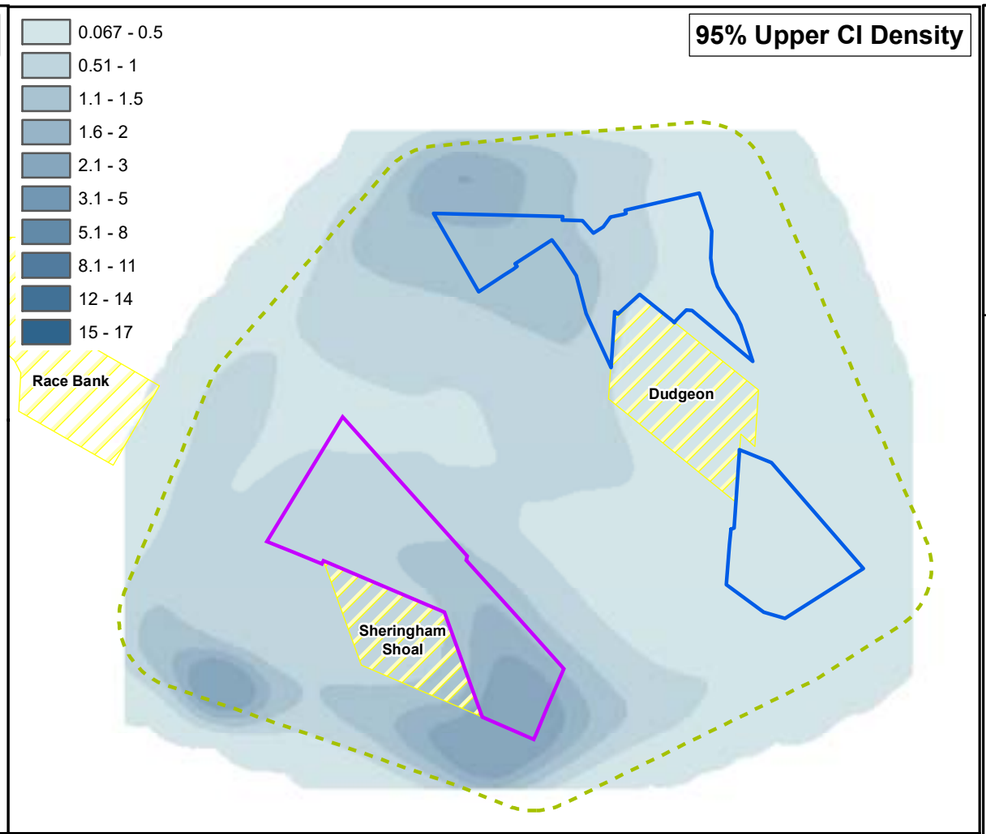

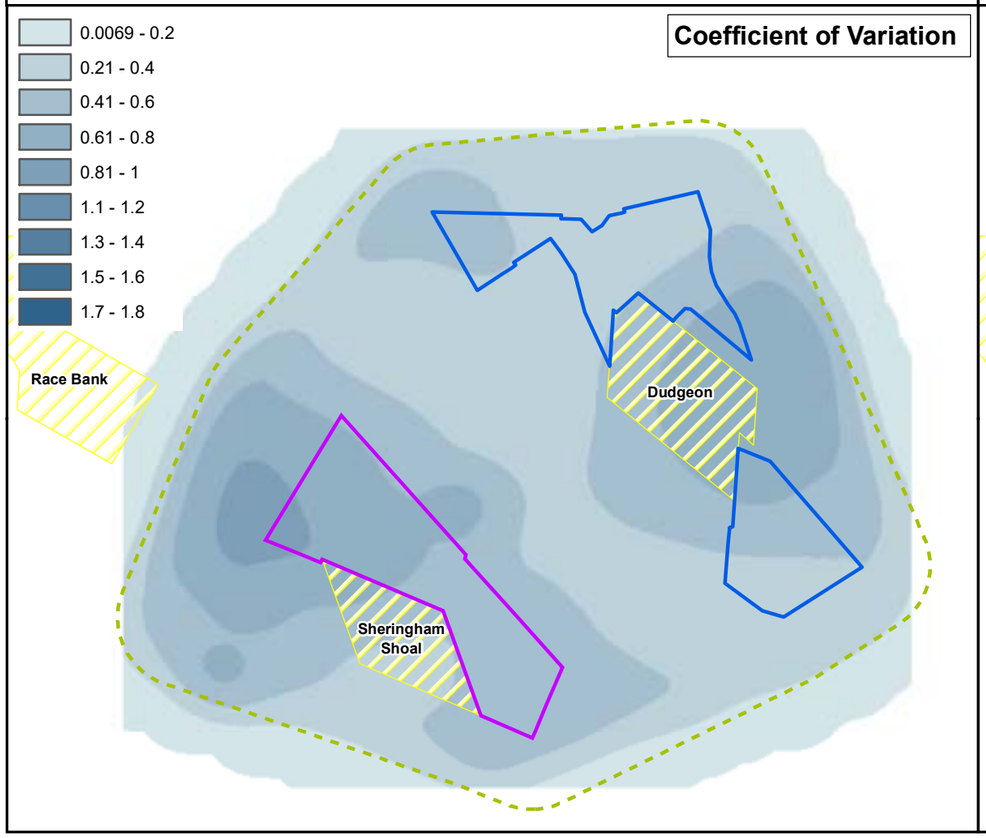

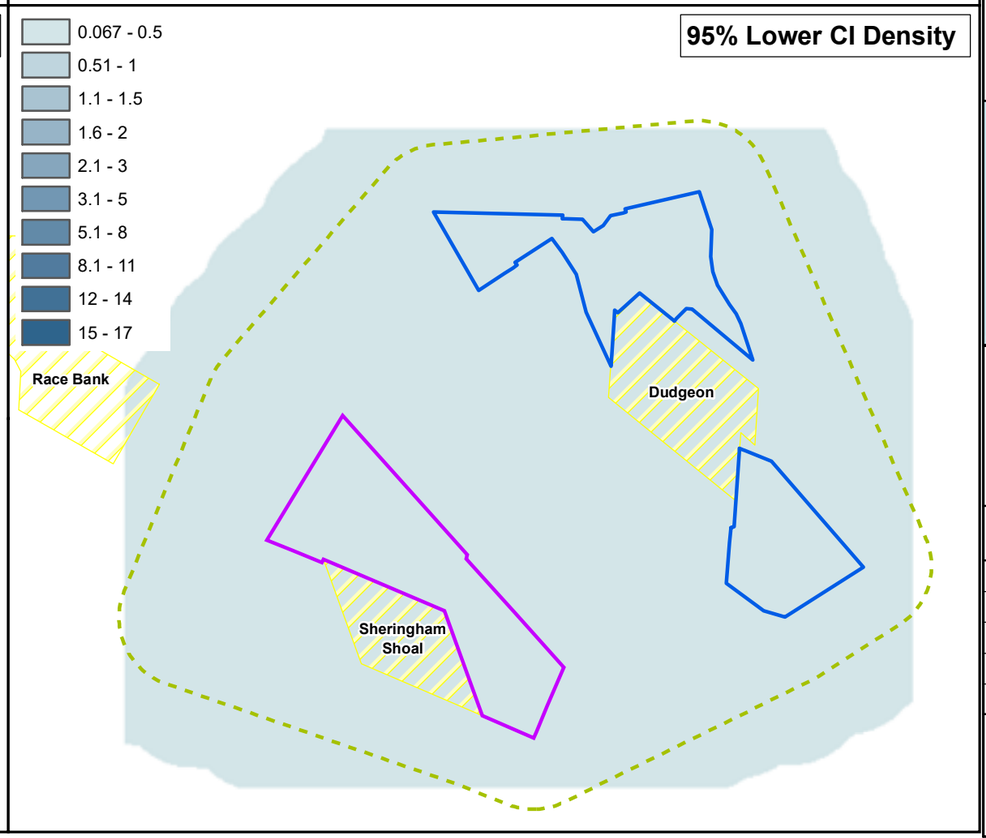

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.35a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
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Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0238

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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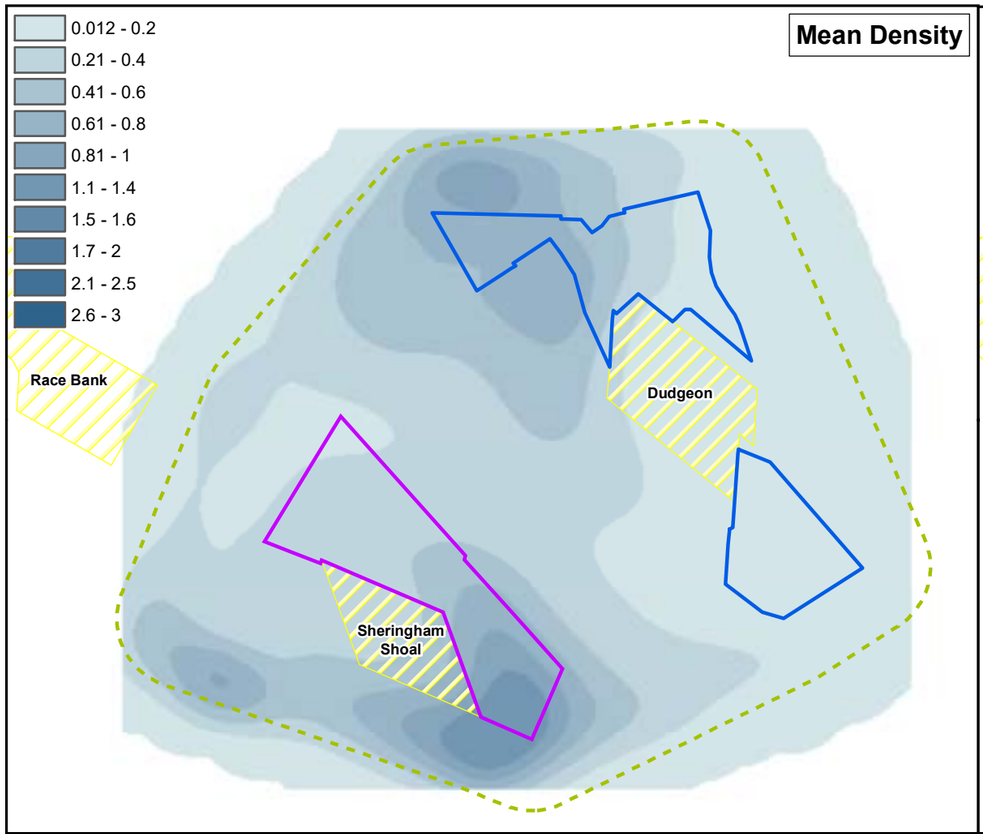

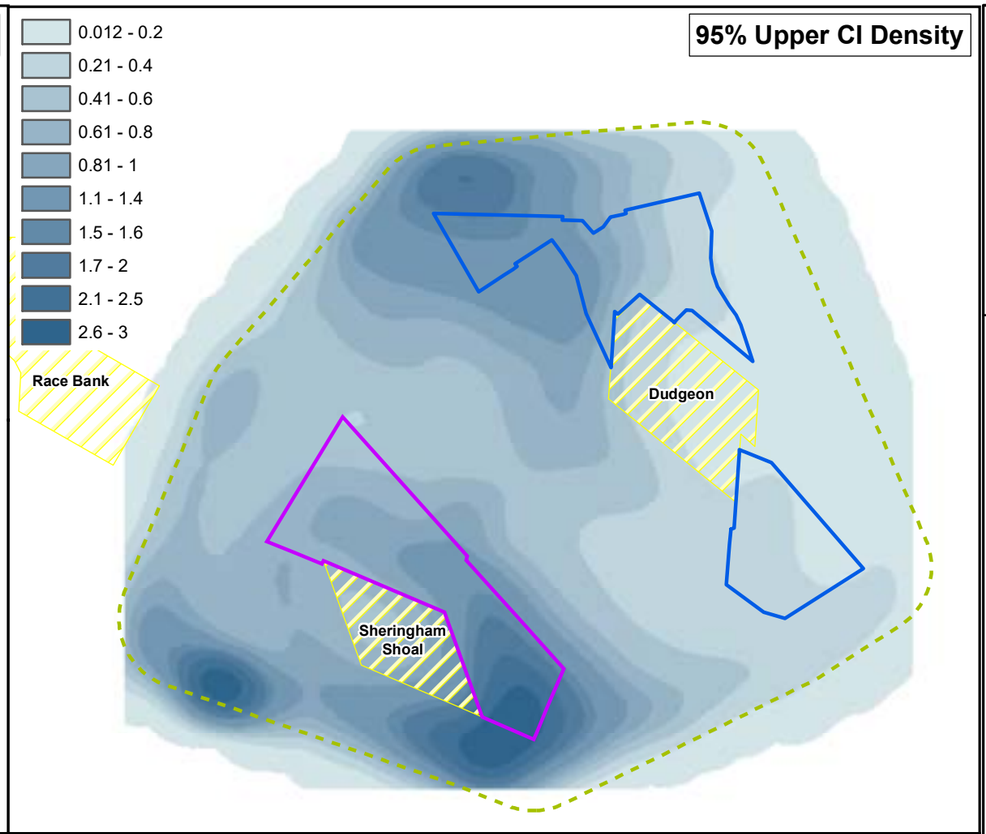

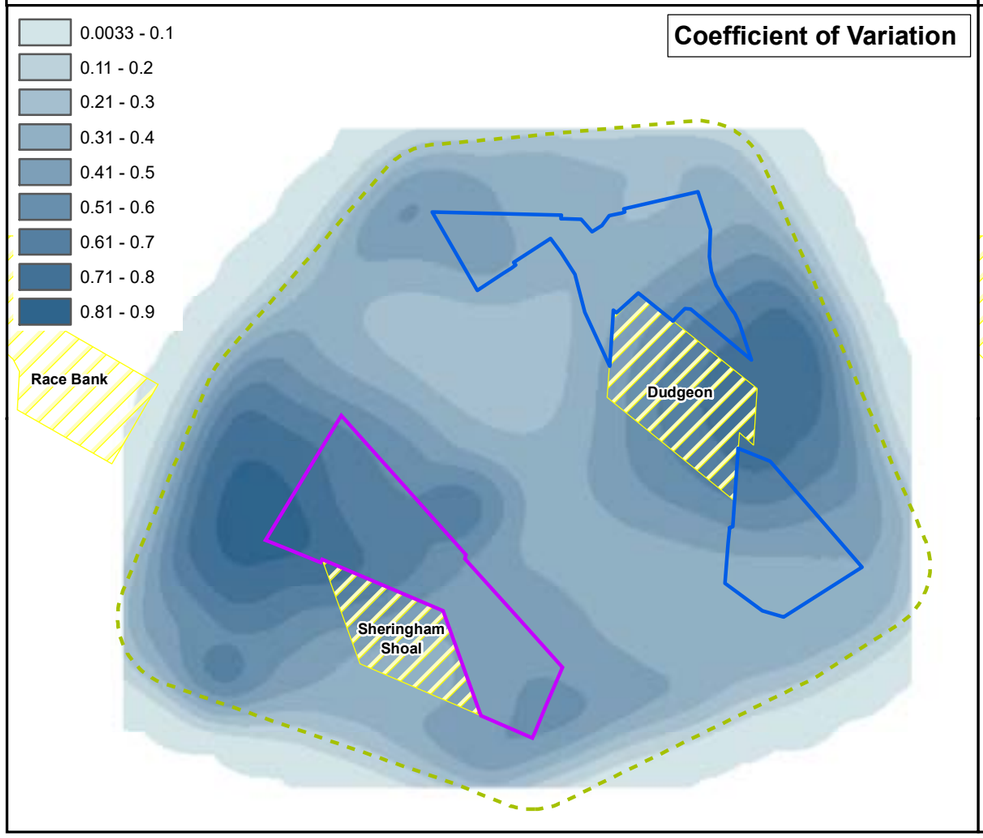

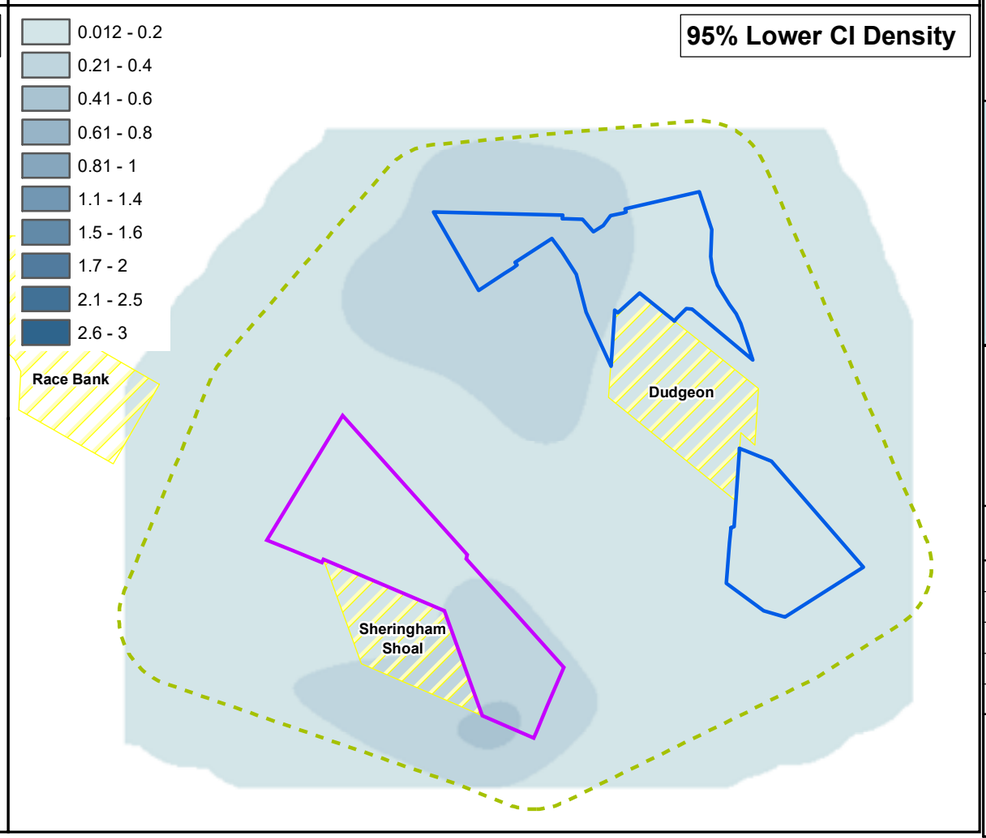

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.35b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

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- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0252

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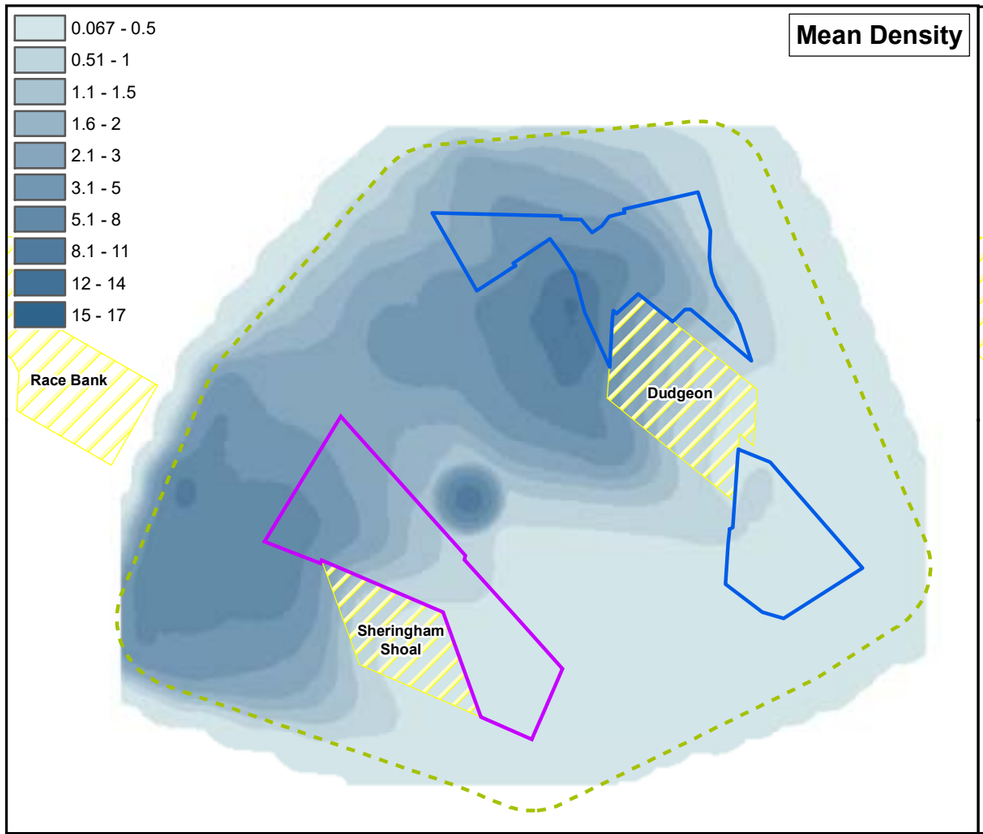

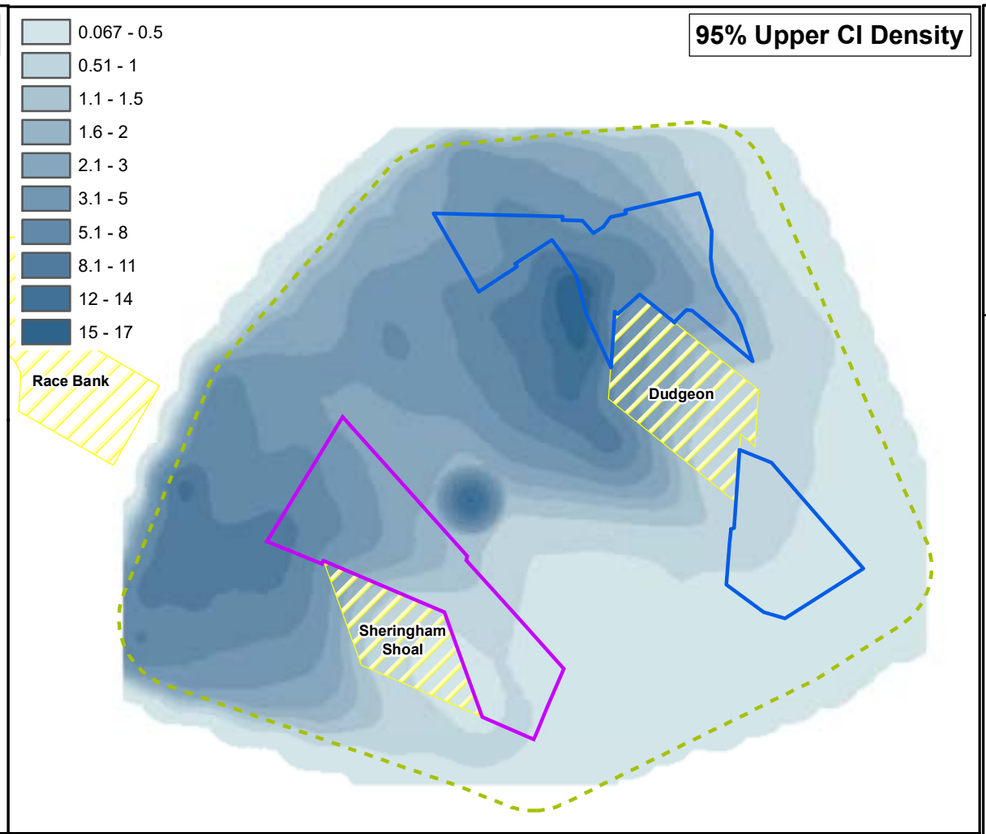

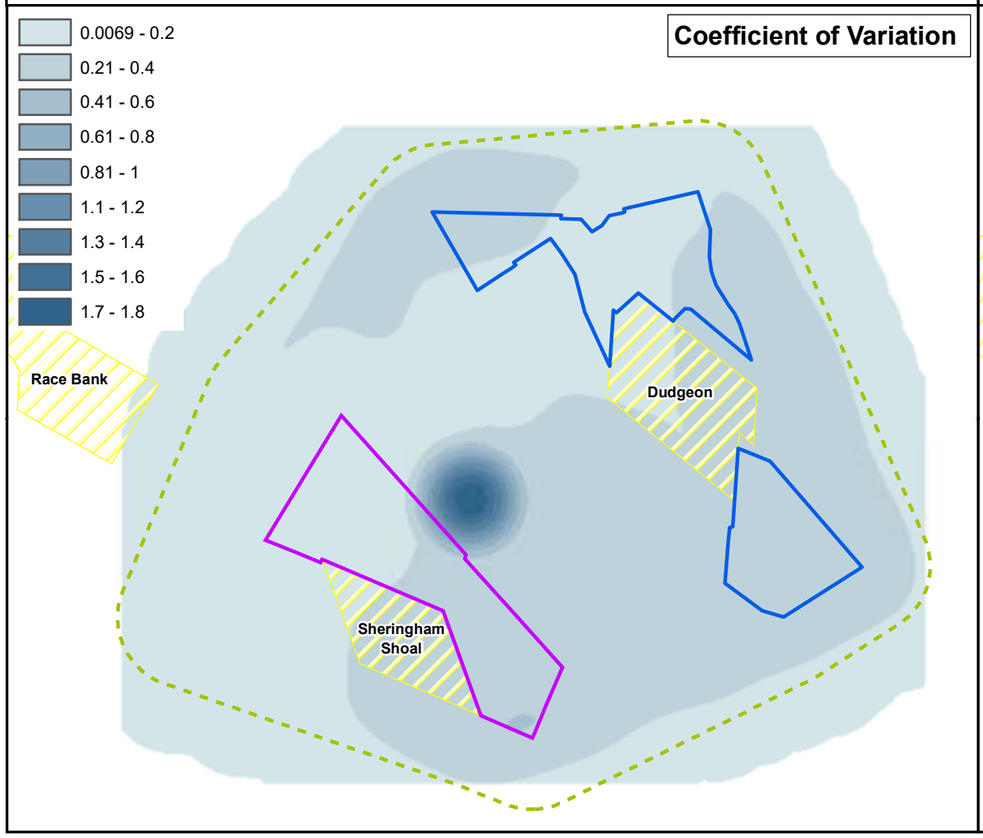

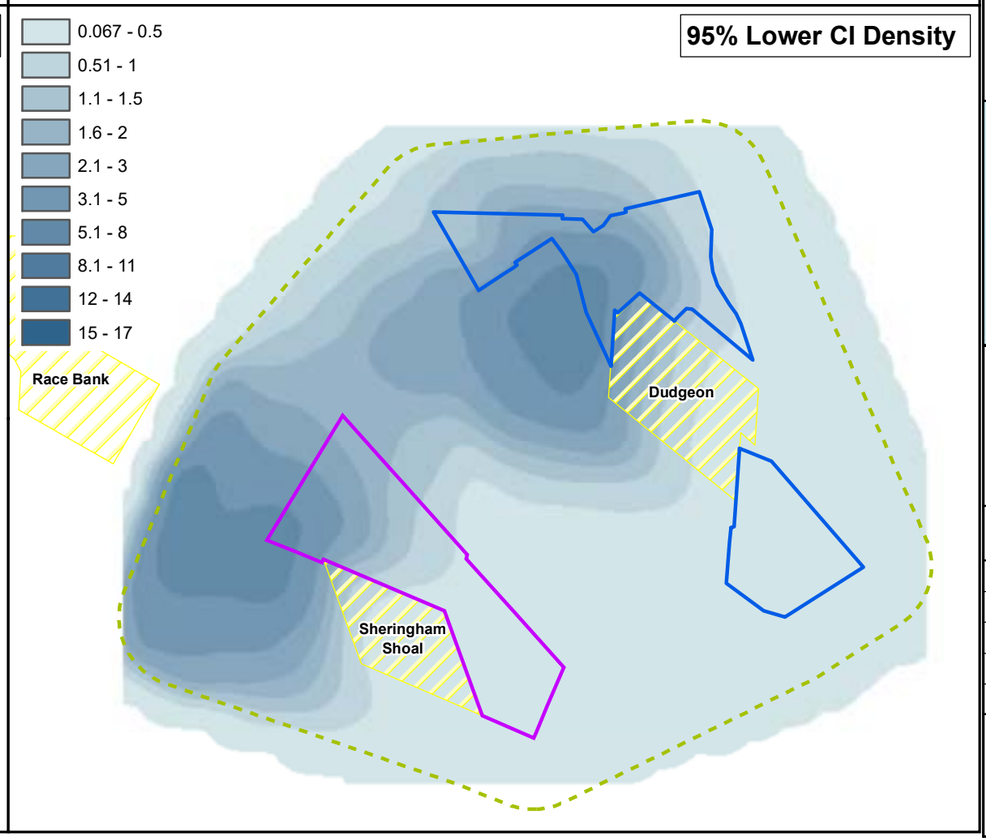

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.36a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study Area

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0239

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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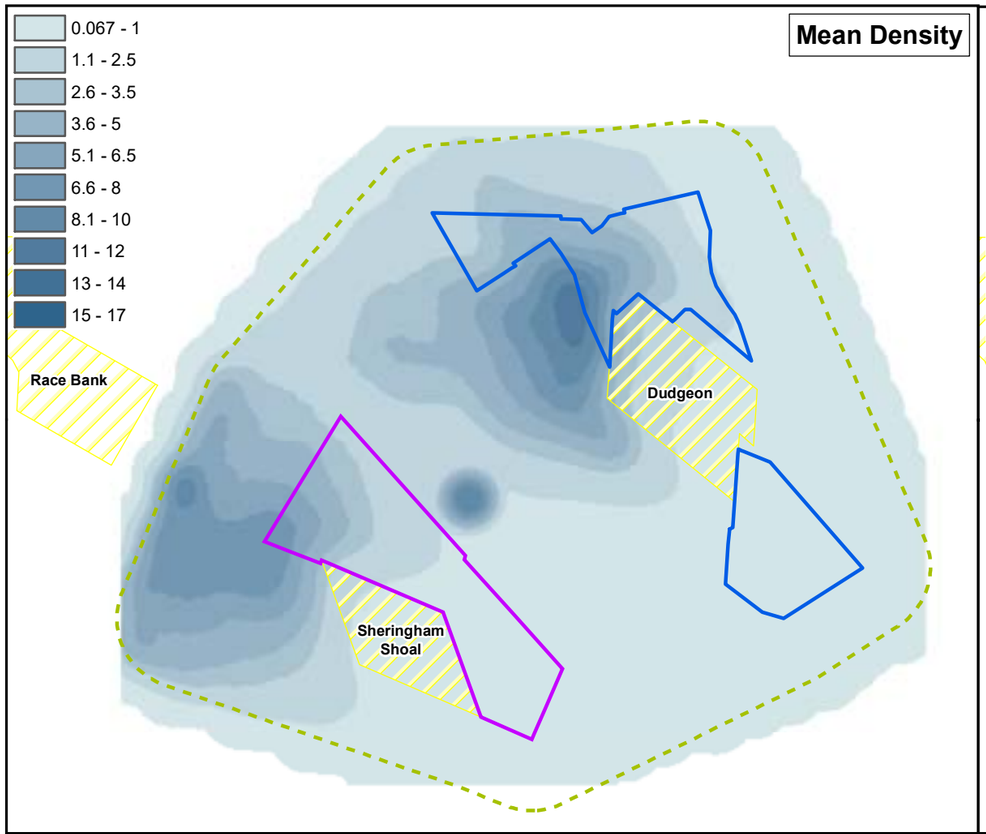

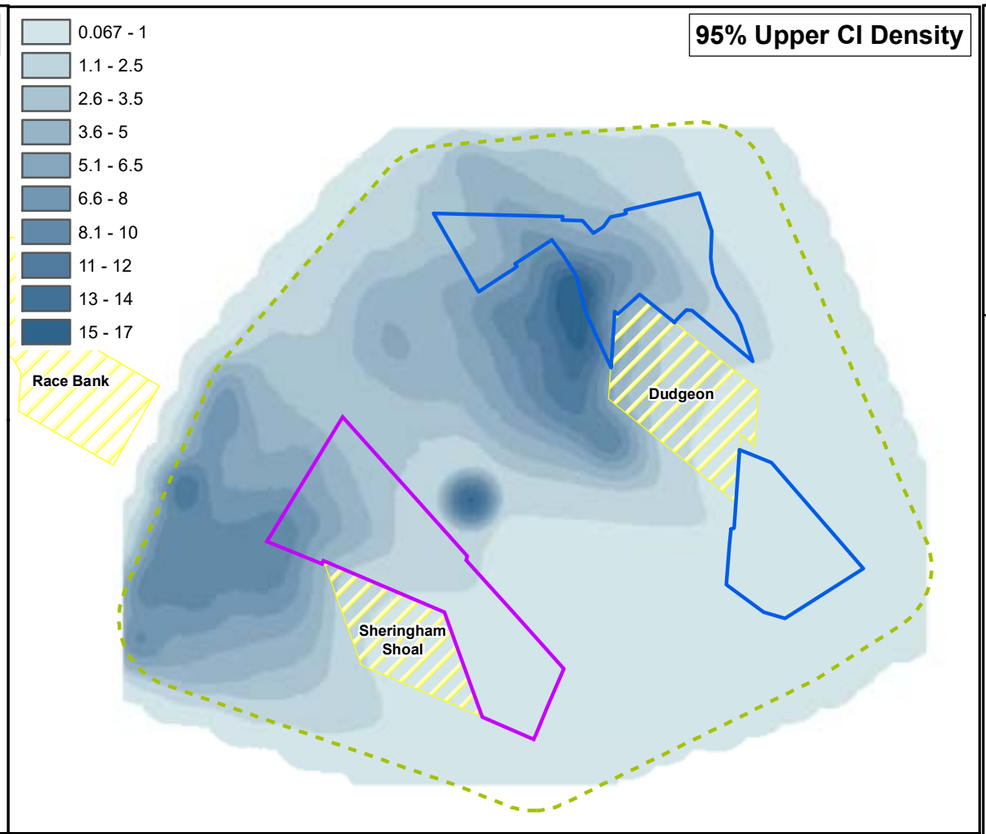

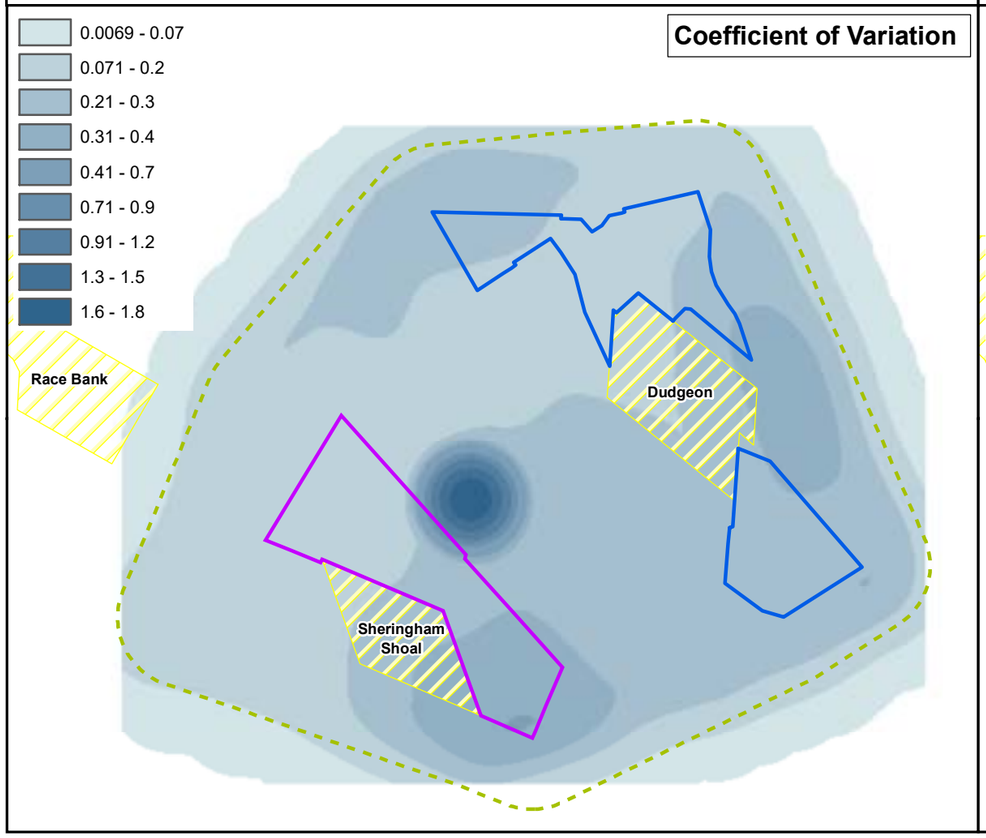

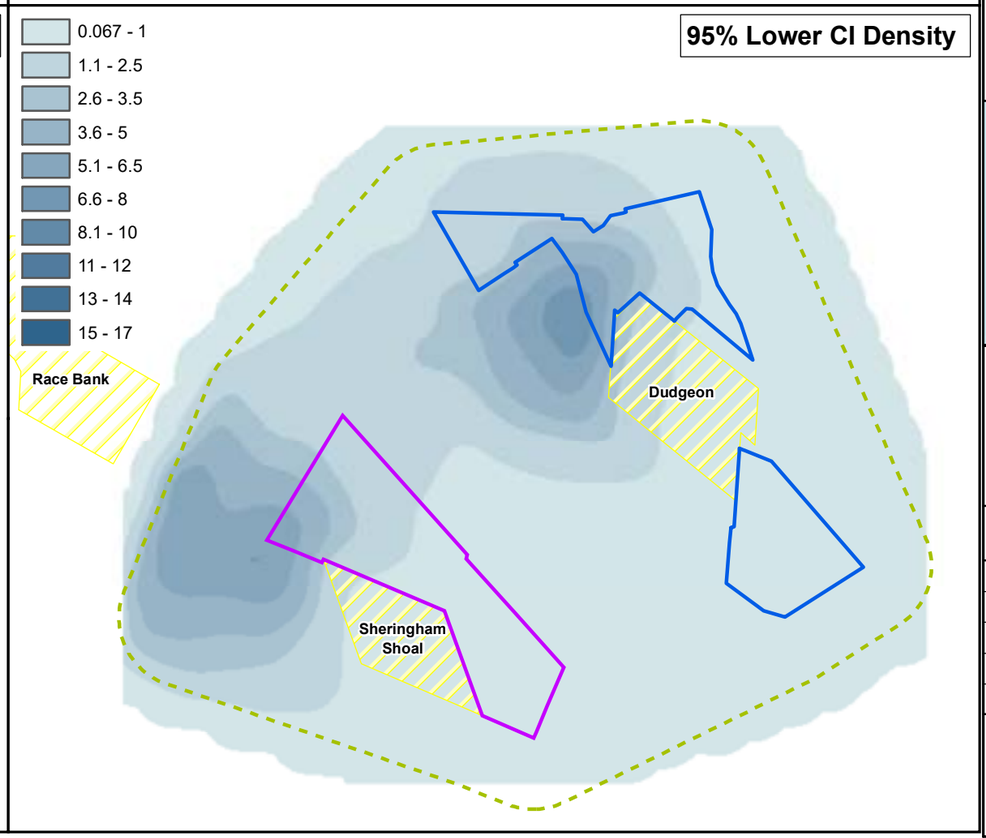

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.36b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2018

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study Area

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0253

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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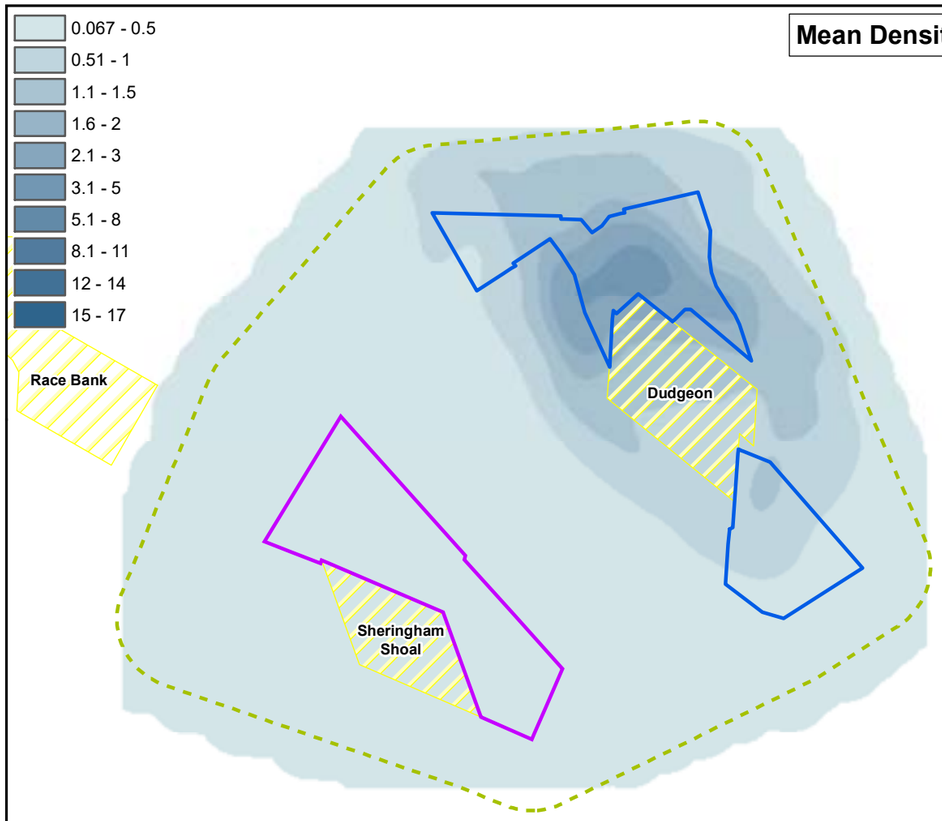

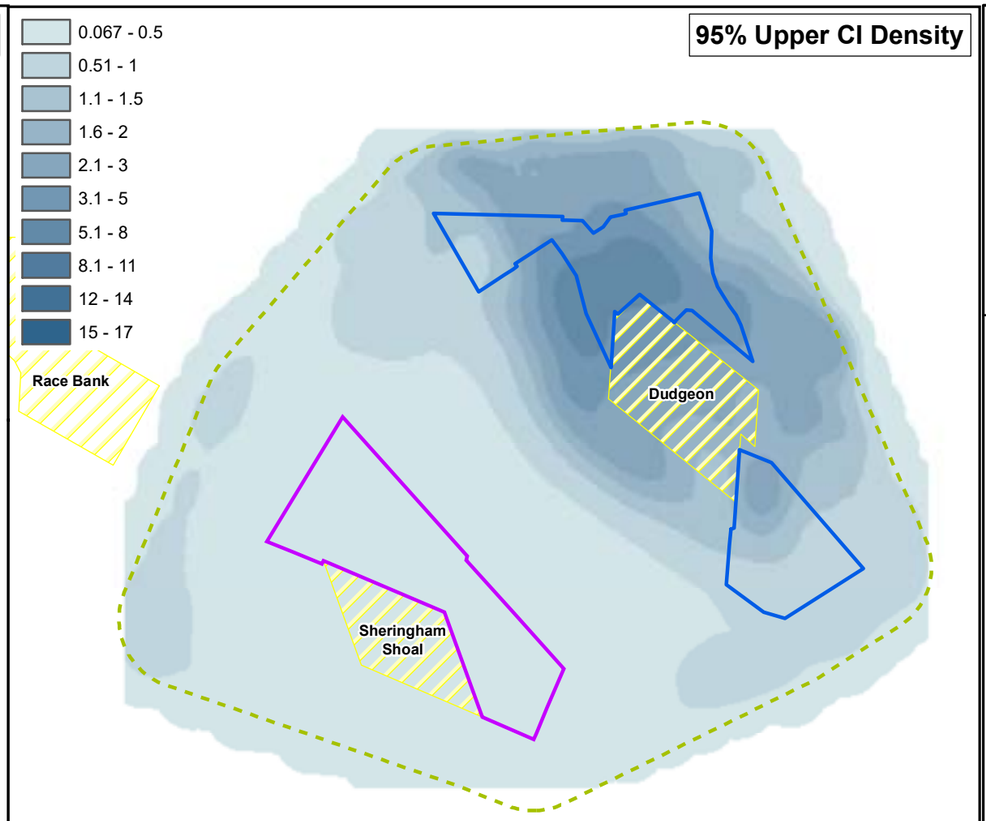

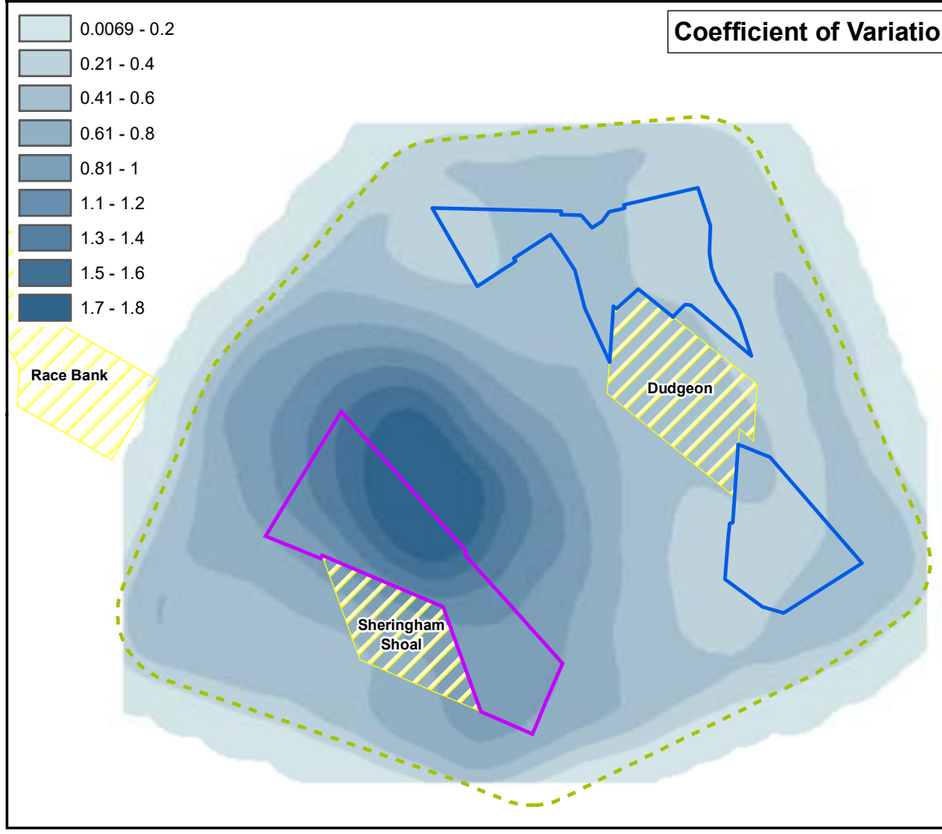

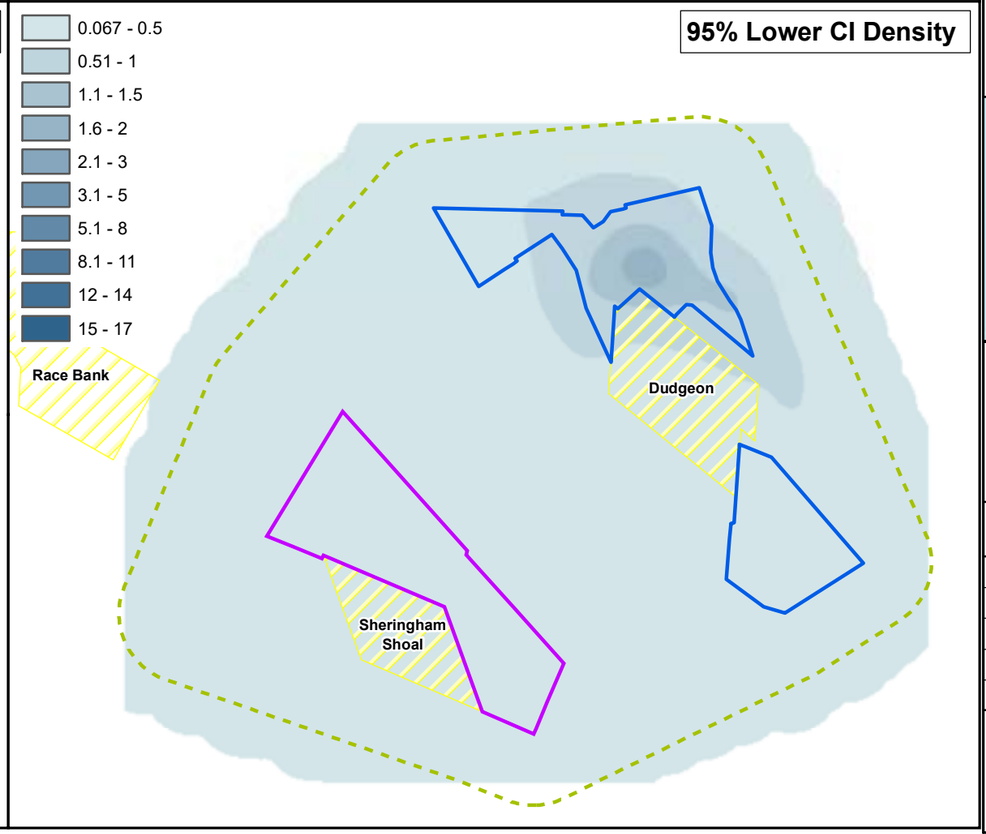

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.37a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - April 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0240

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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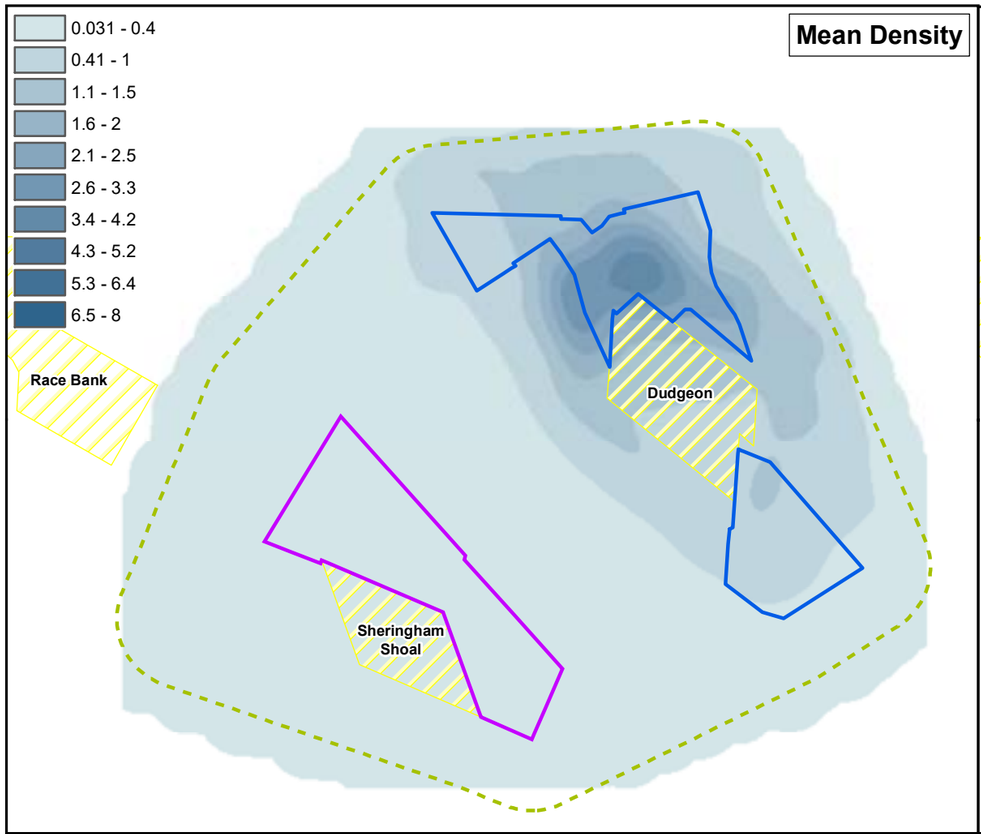

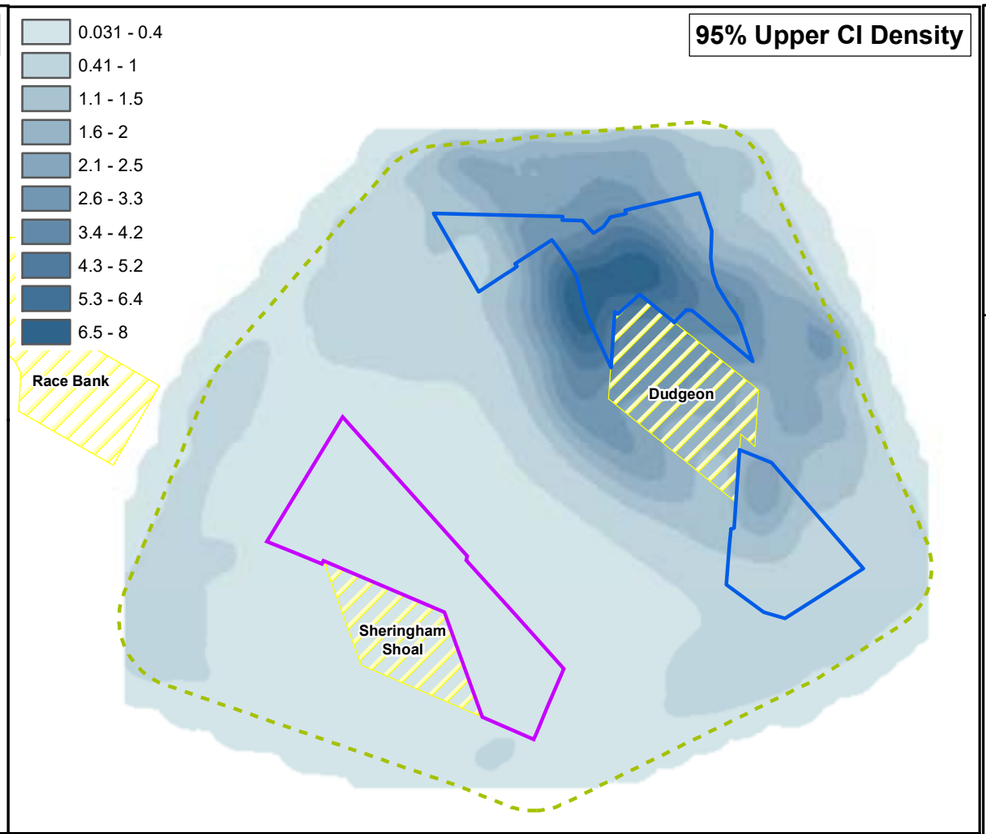

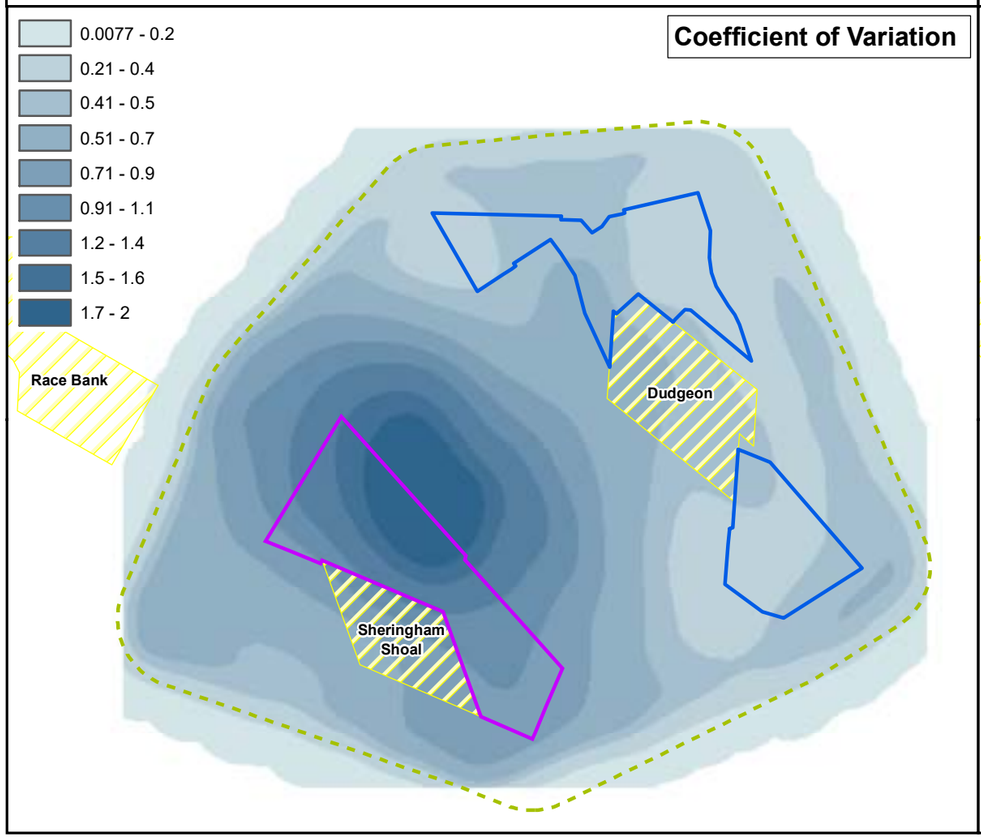

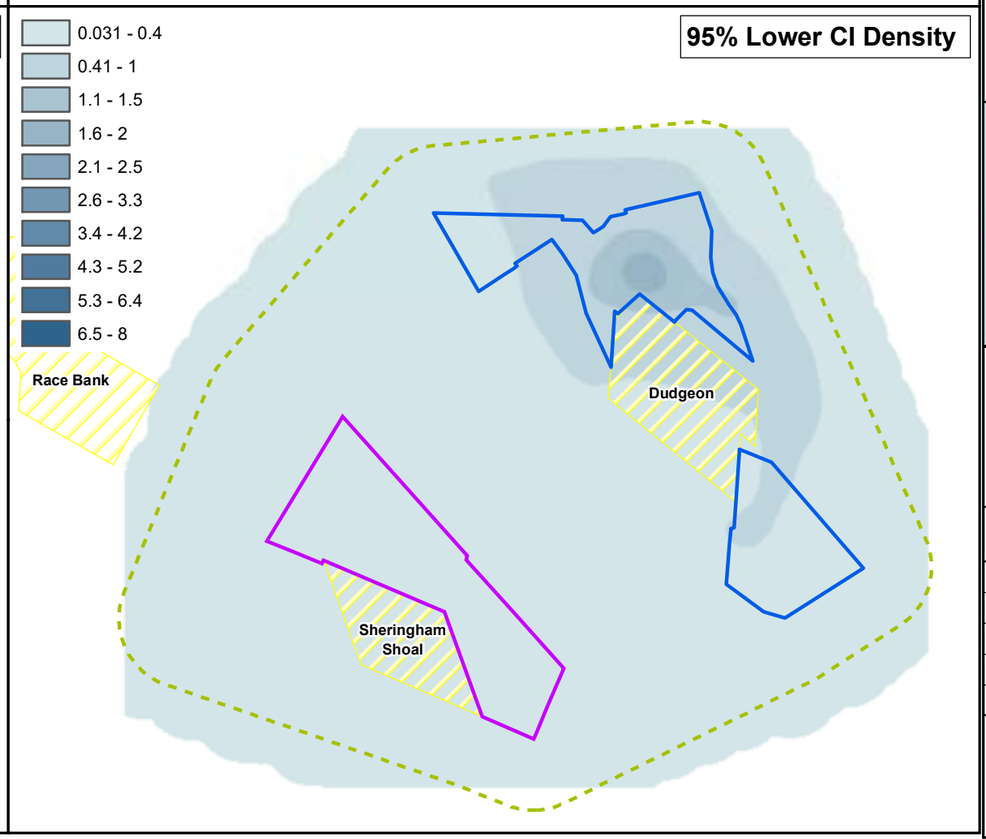

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.37b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - April 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

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- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0254

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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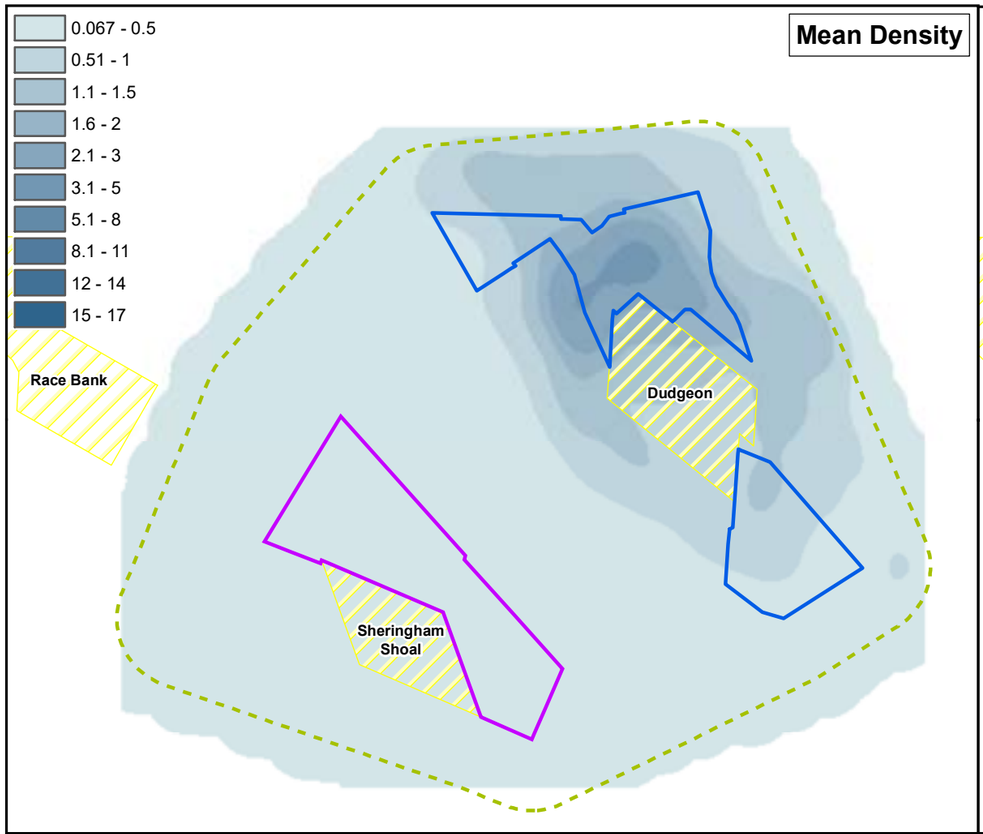

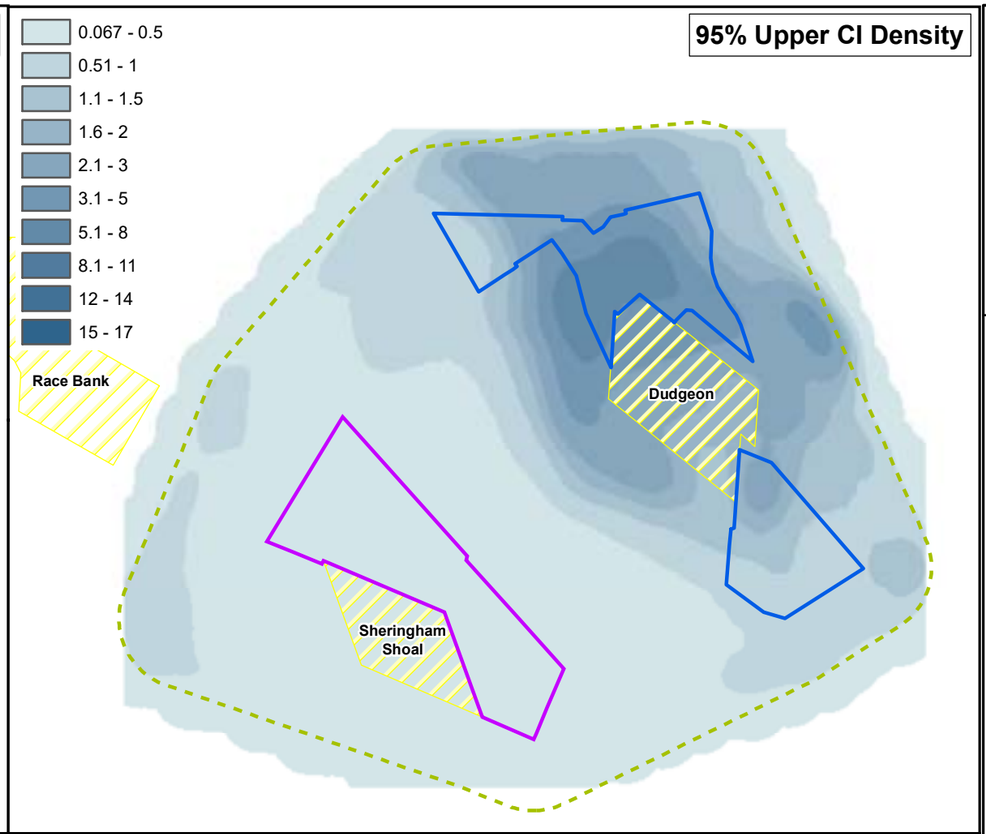

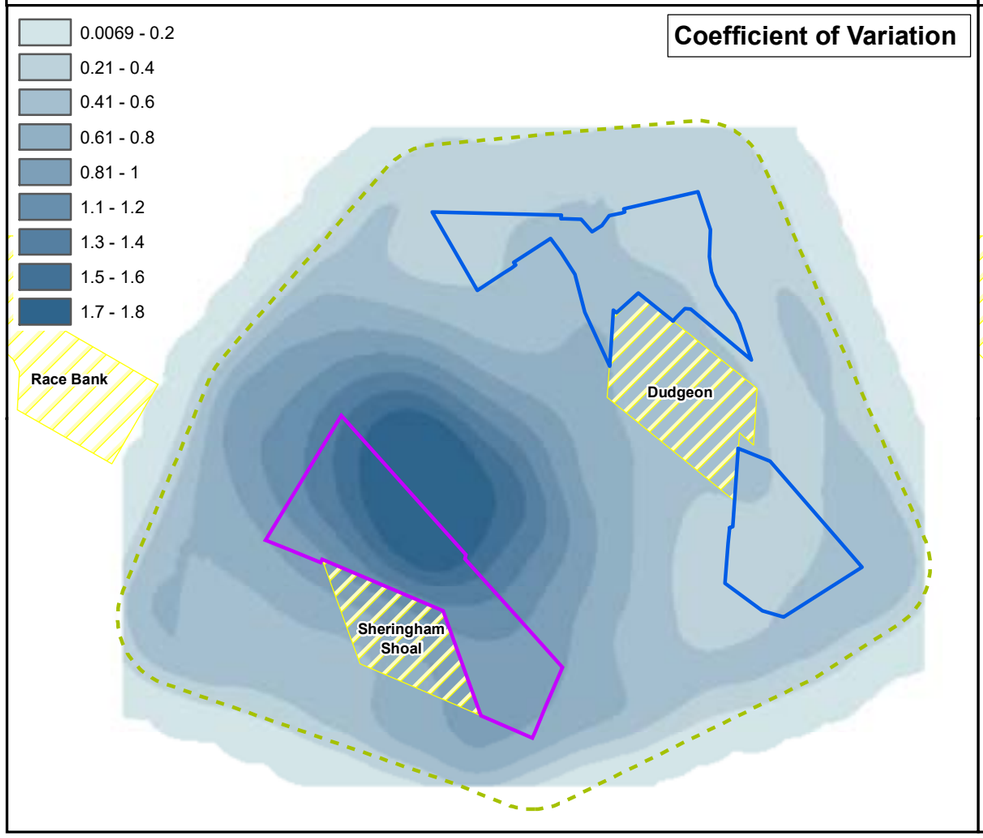

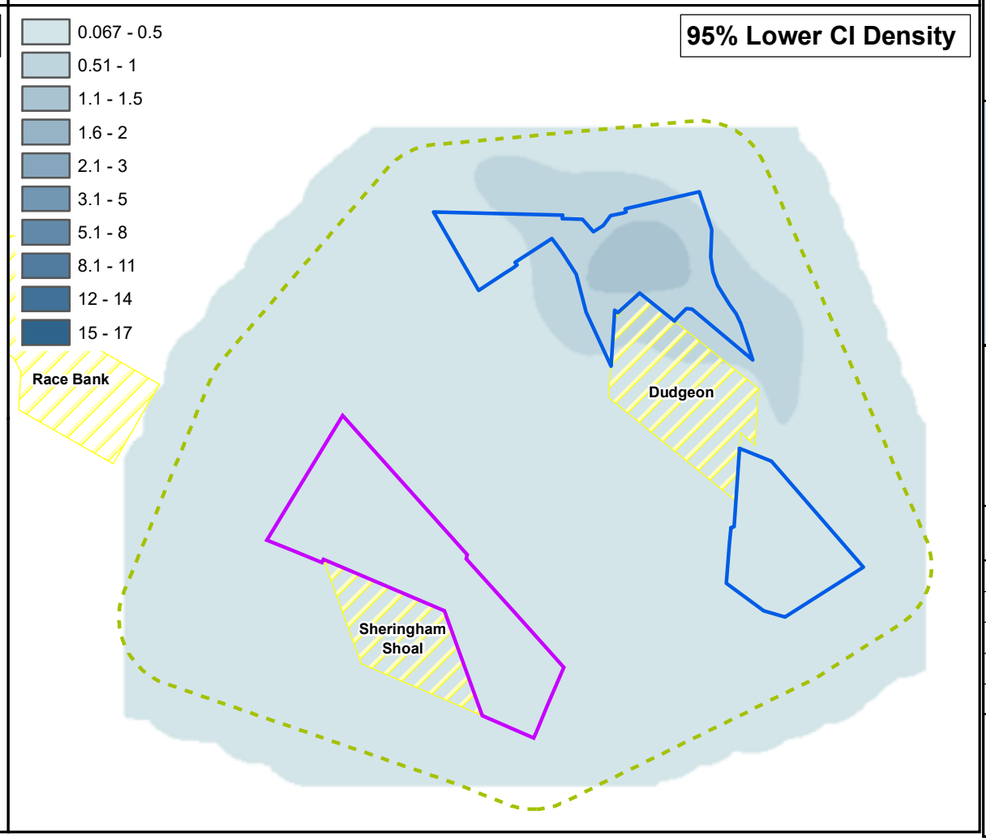

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.38a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - April 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0241

REV	DATE	STATUS	DRW	CHK	APR
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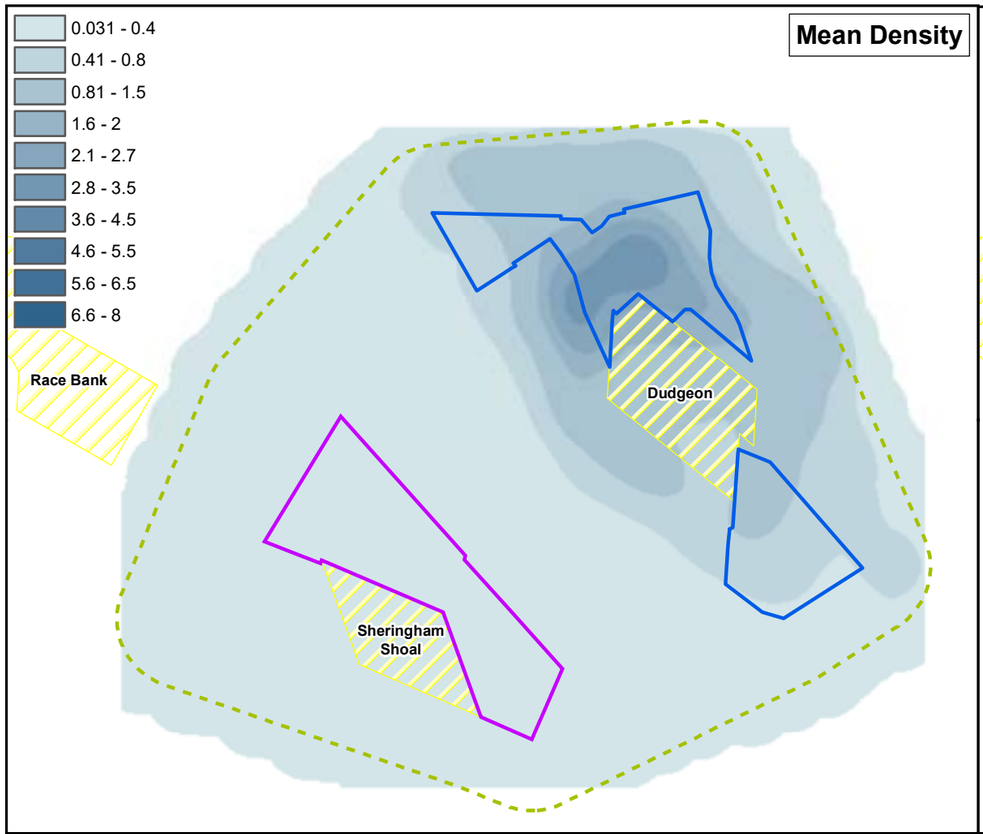

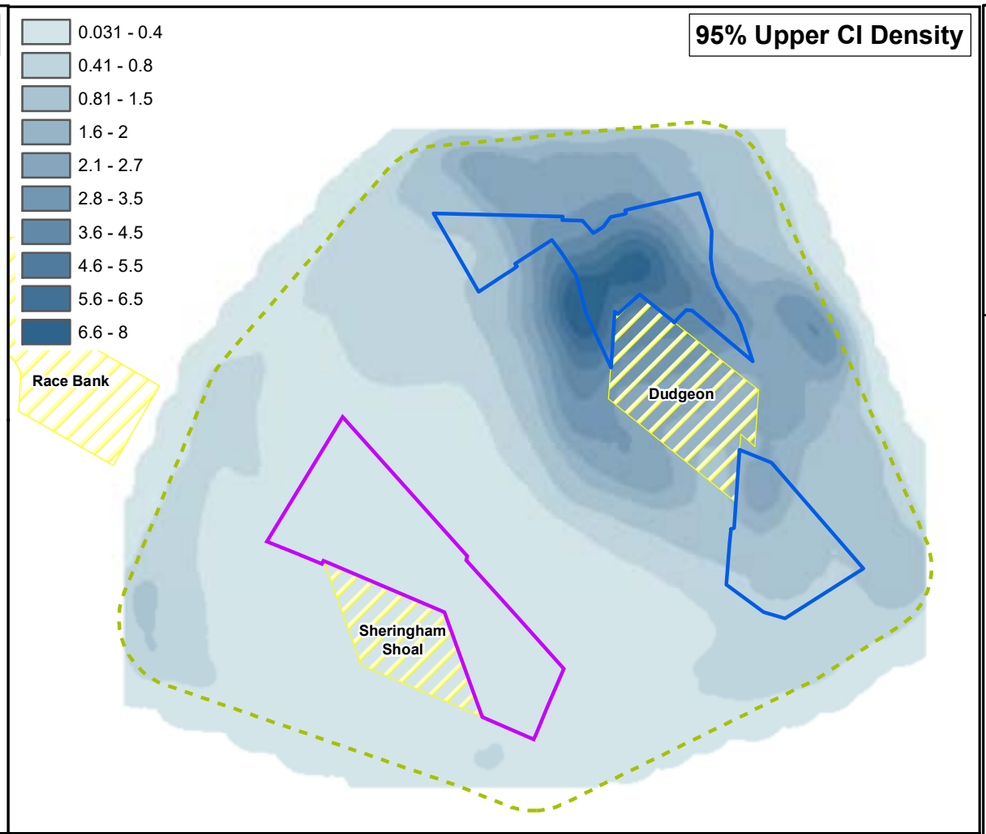

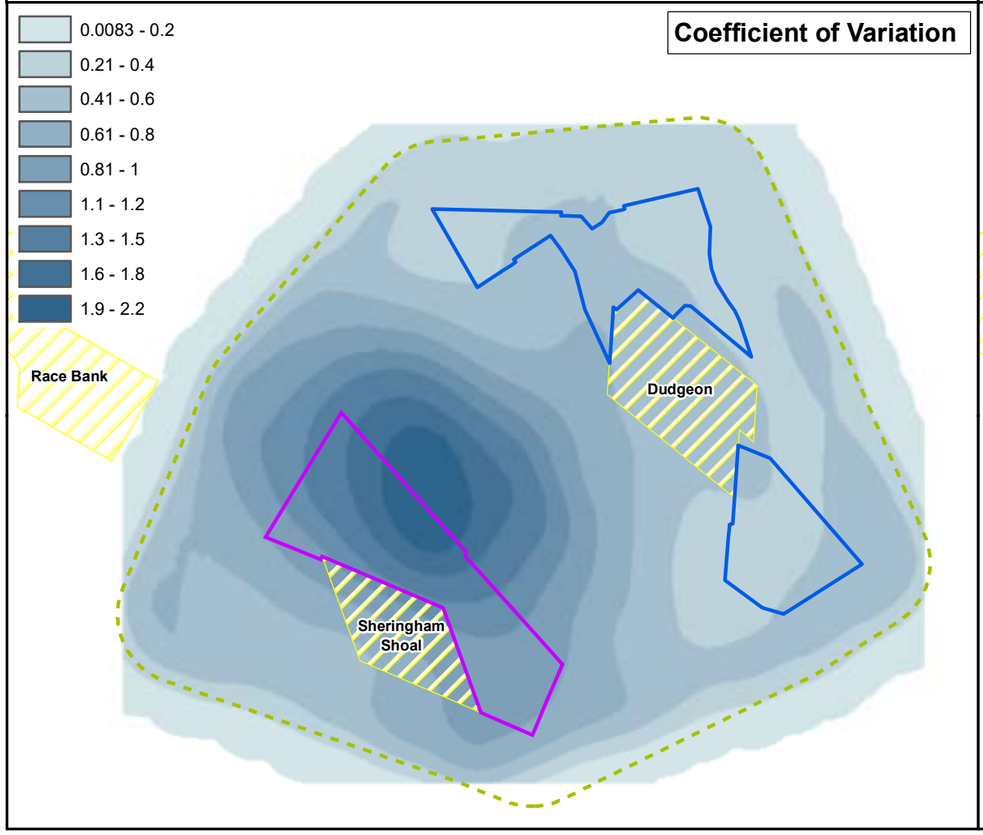

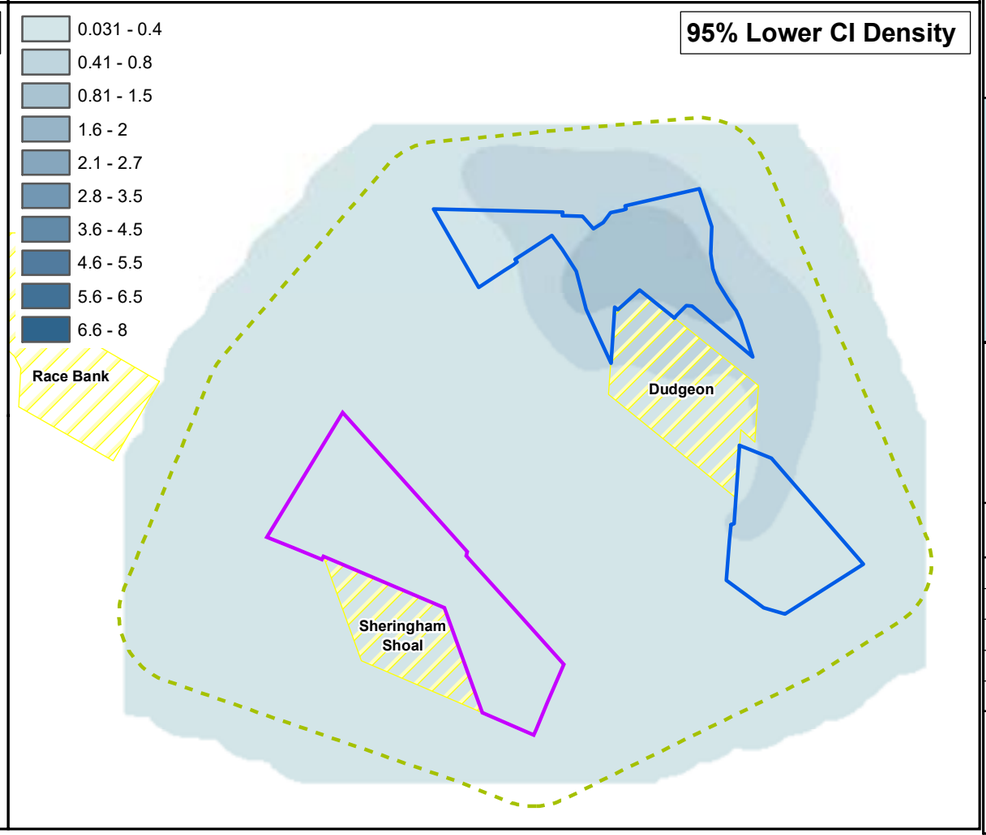

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.38b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - April 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

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- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0255

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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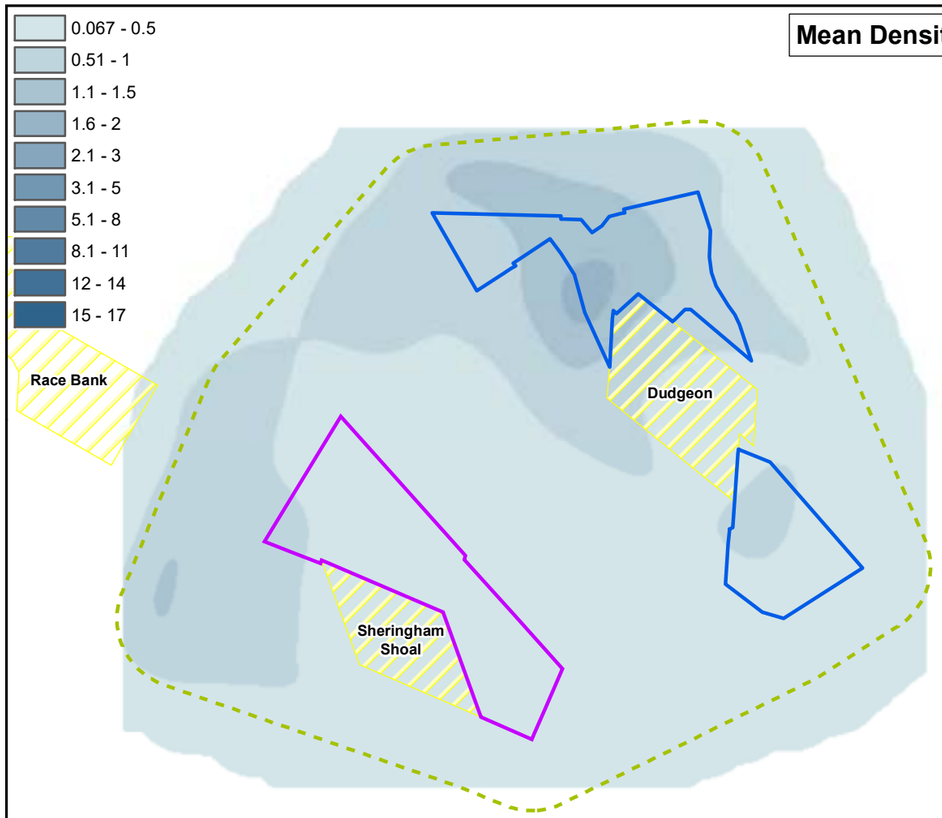

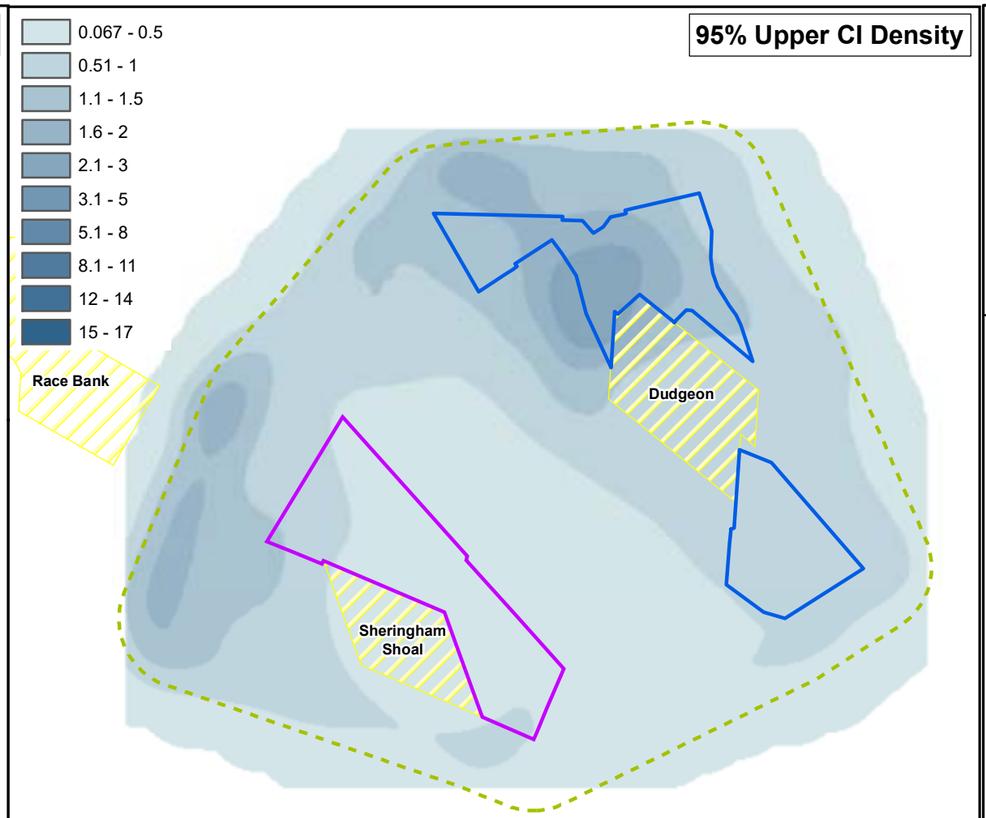

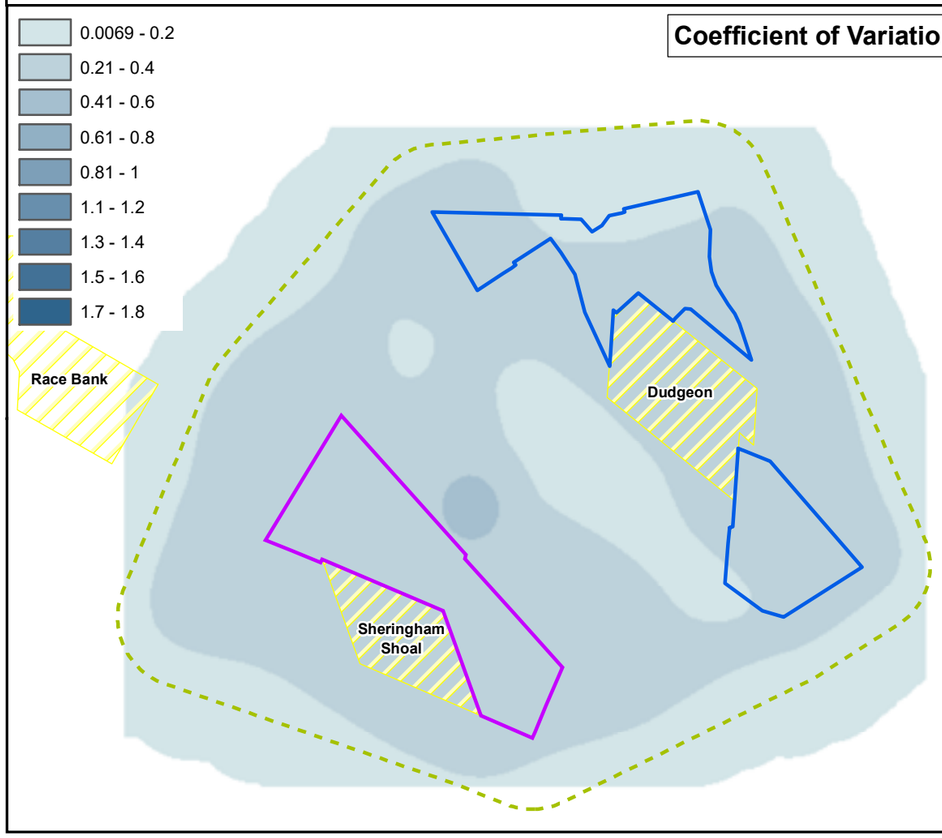

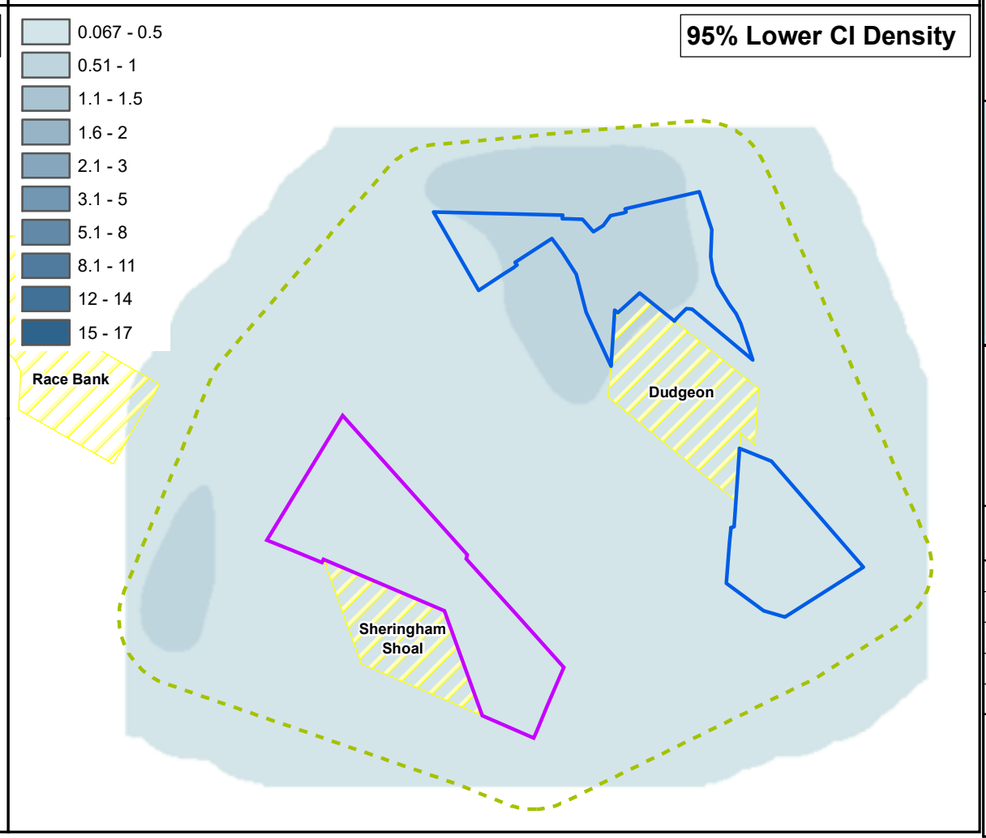

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.39a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0242

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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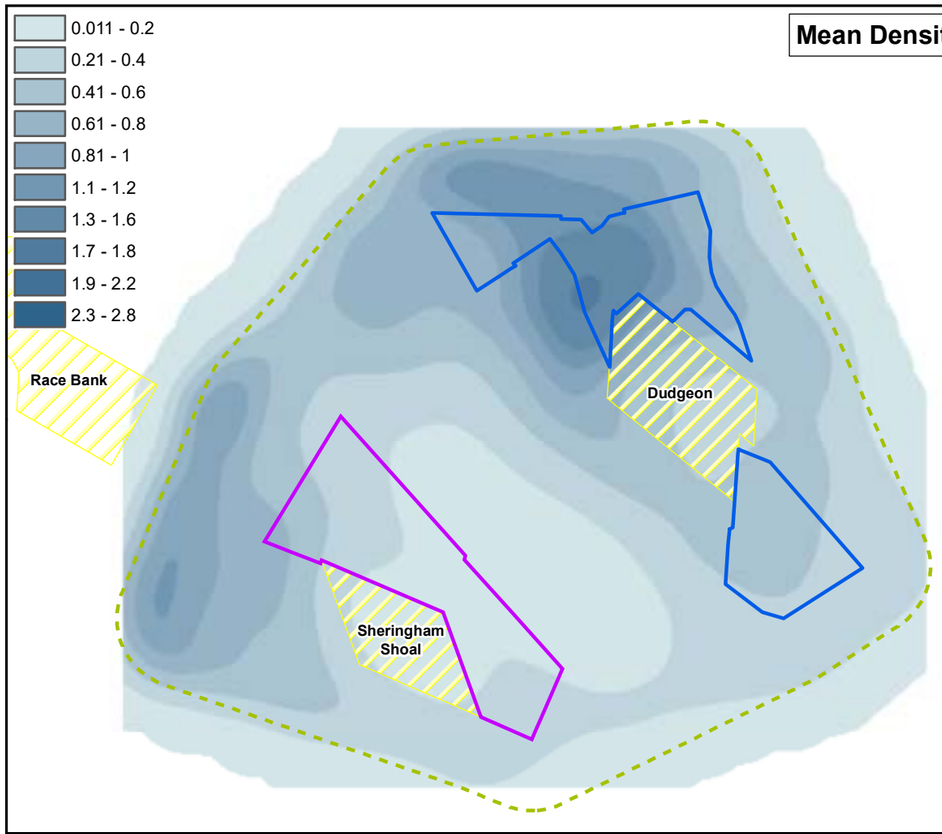

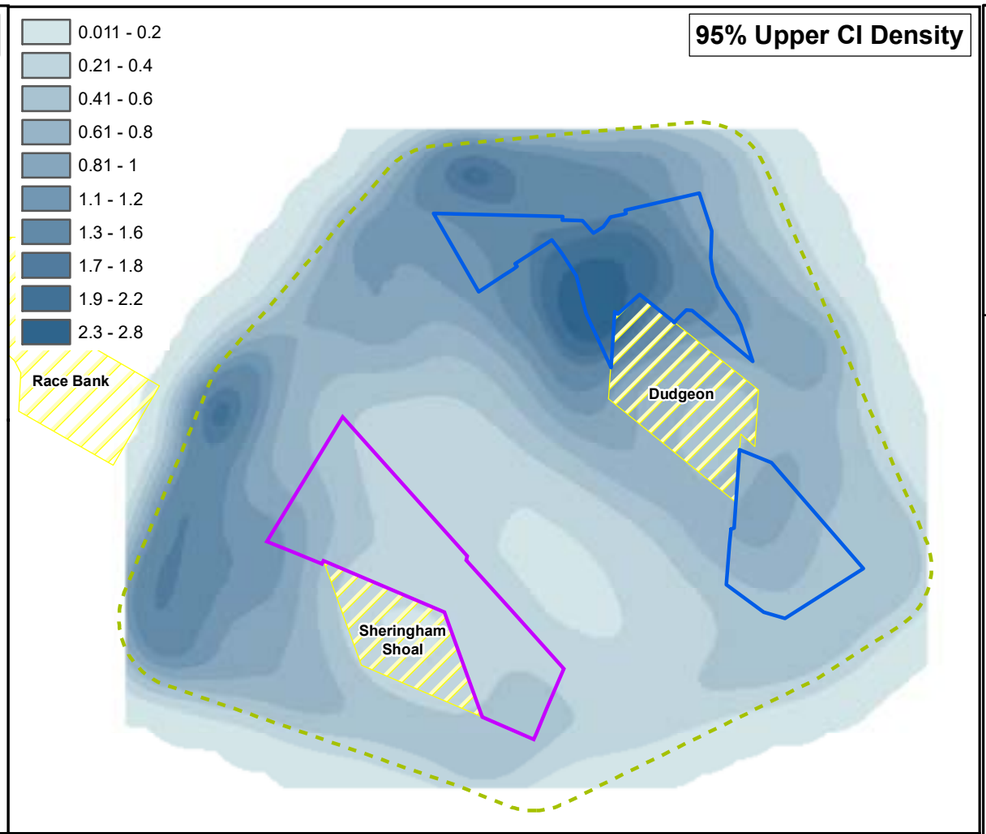

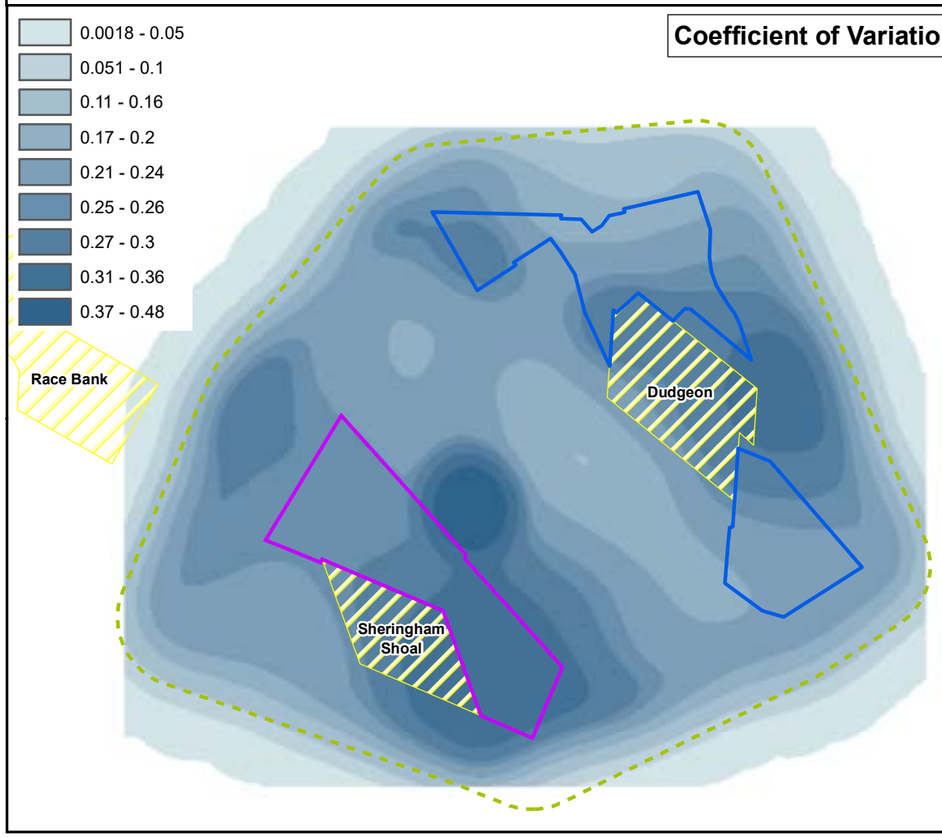

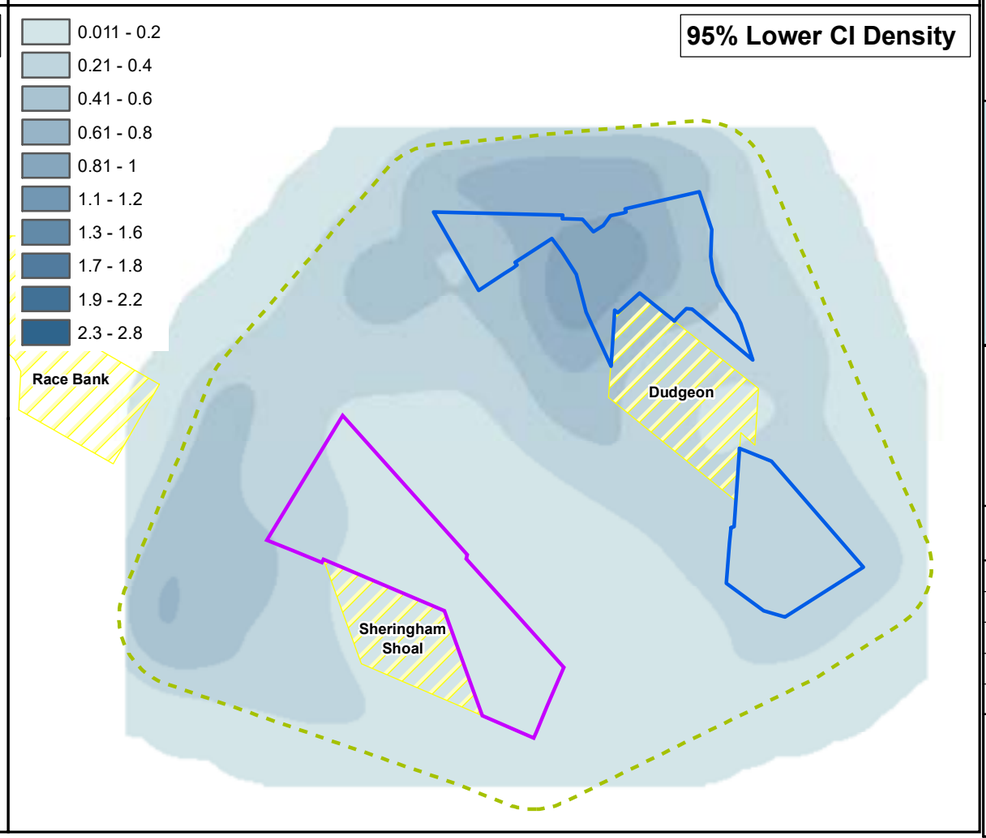

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.39b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0256

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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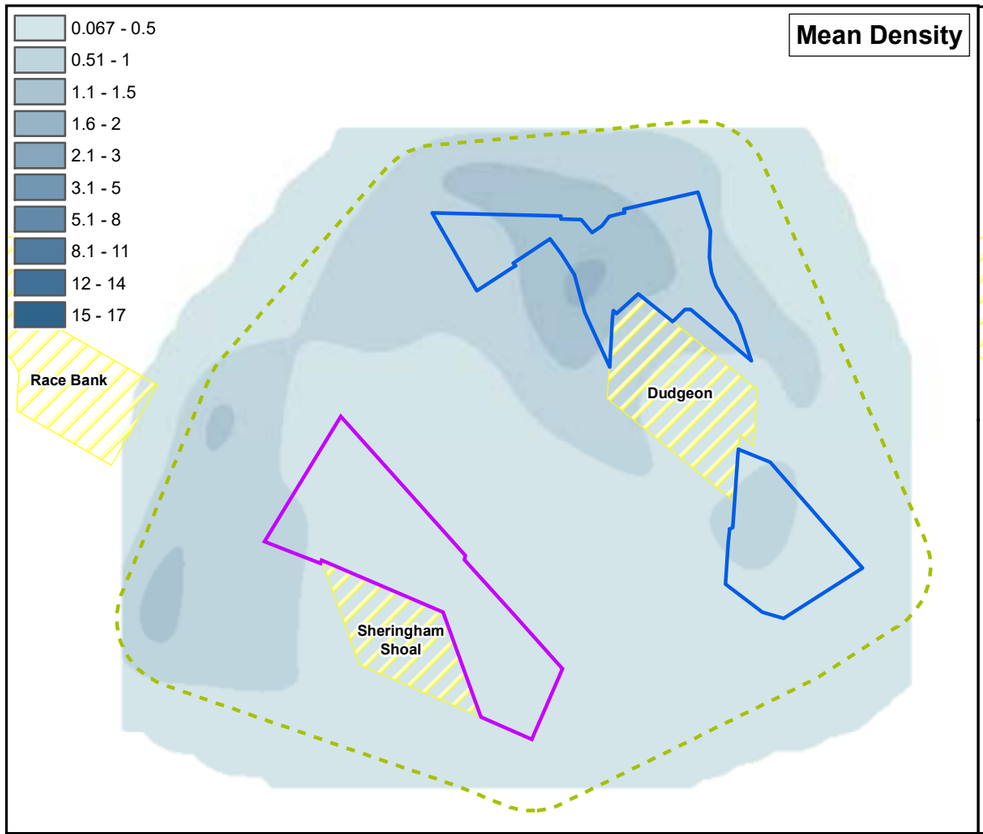

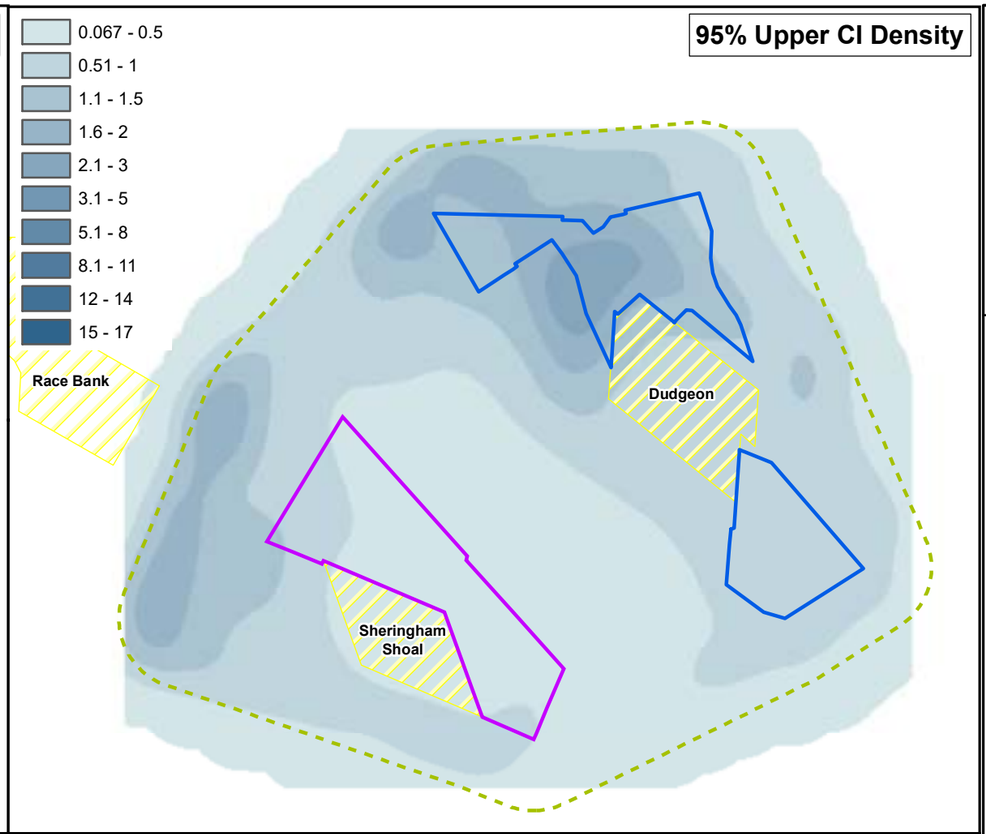

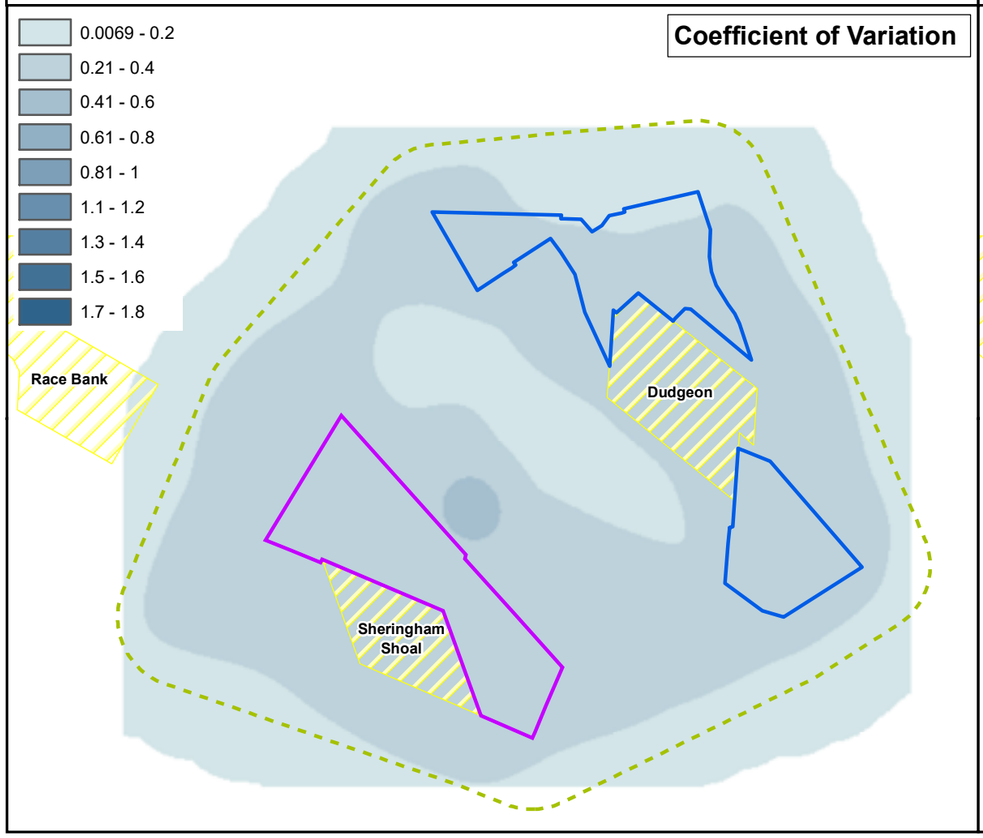

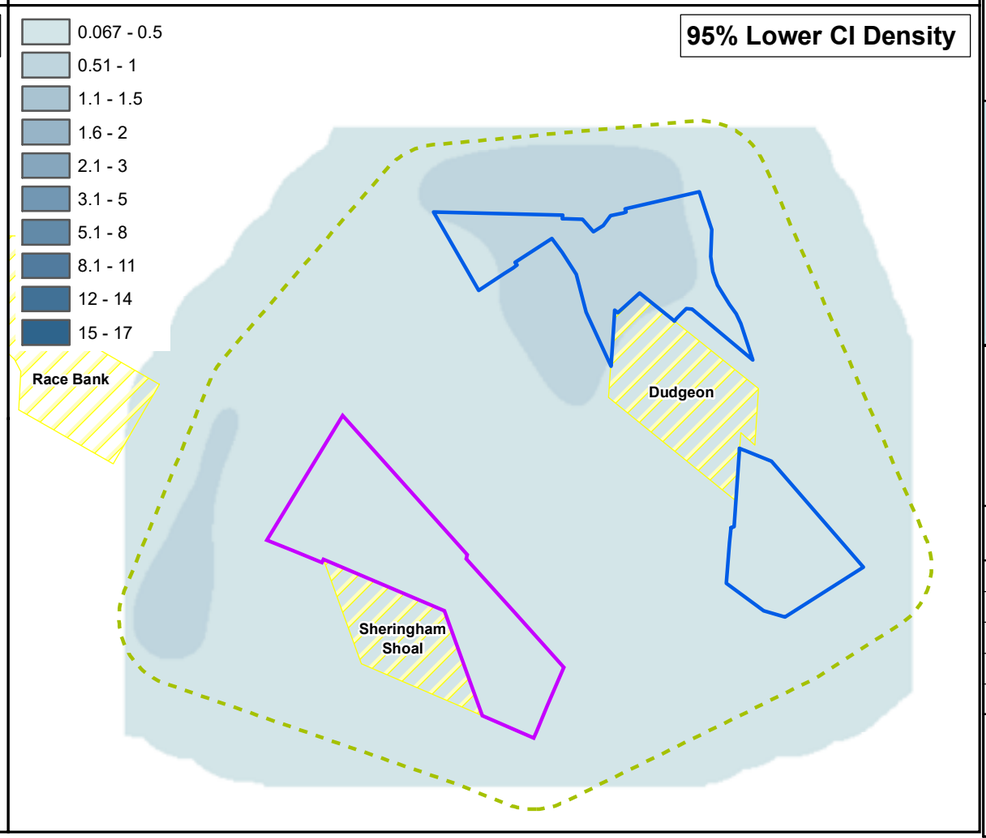

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.40a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0243

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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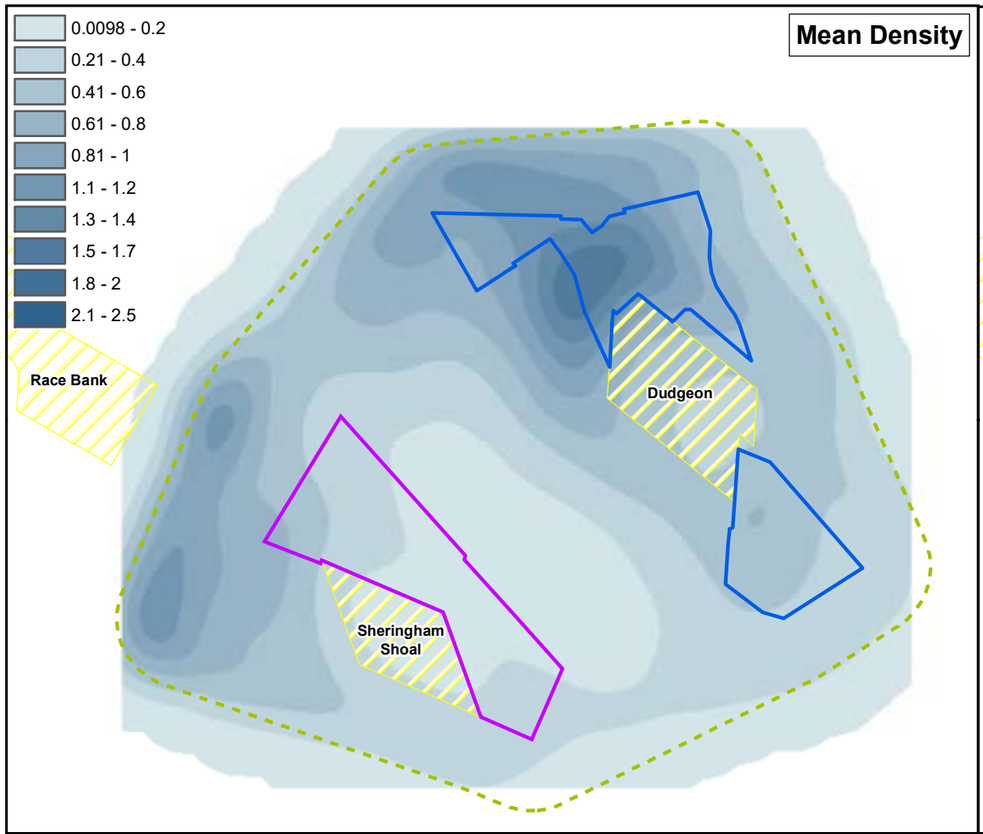

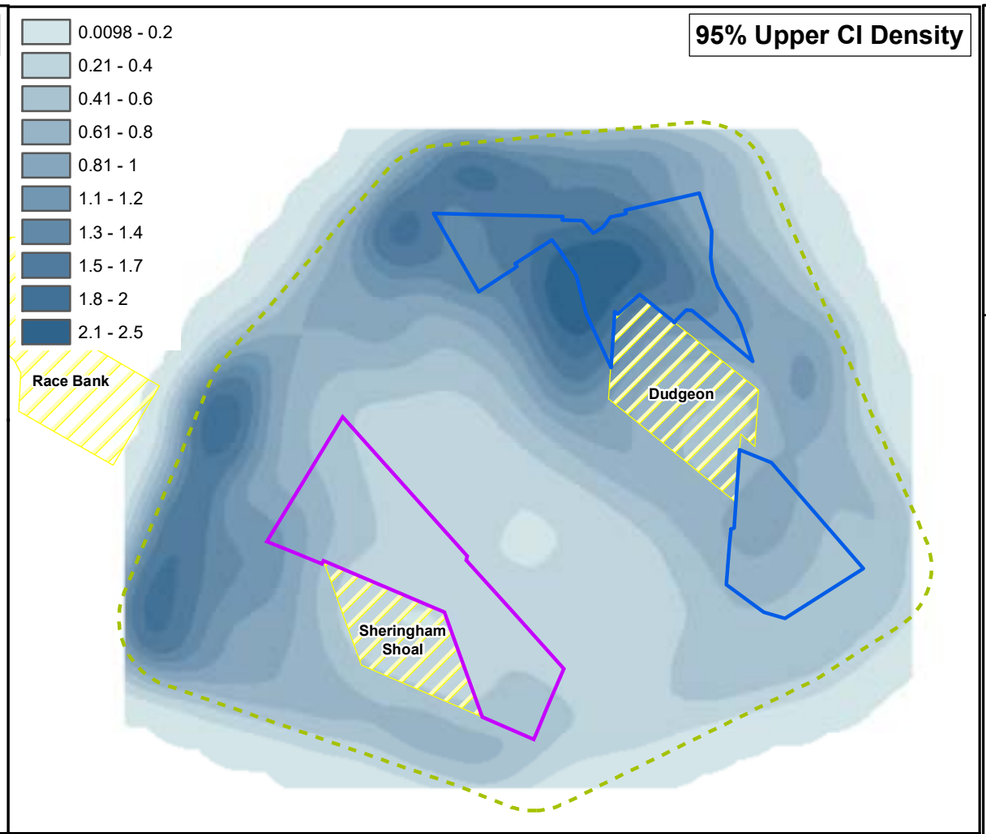

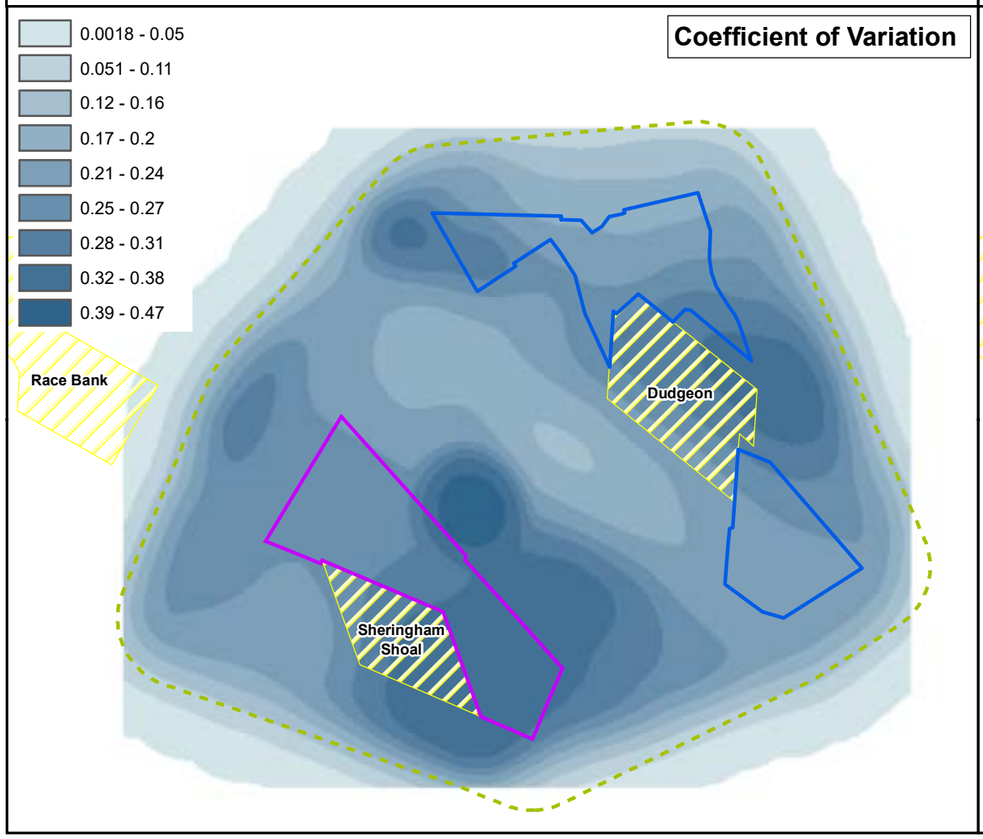

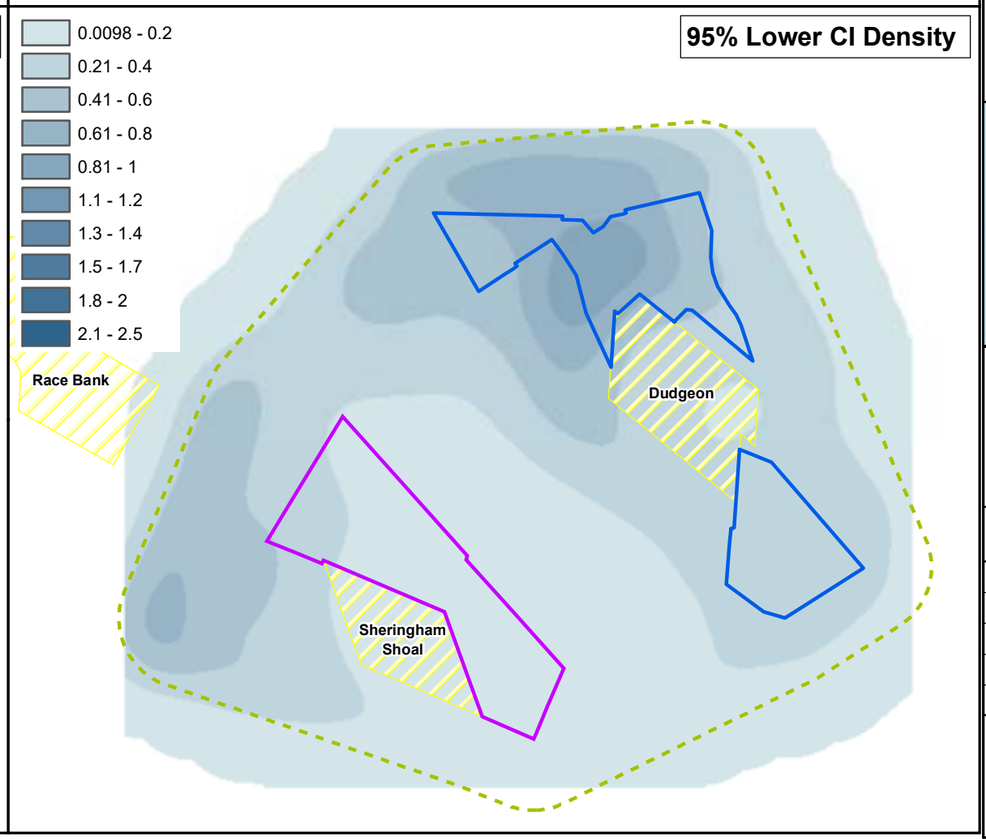

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.40b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - May 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0257

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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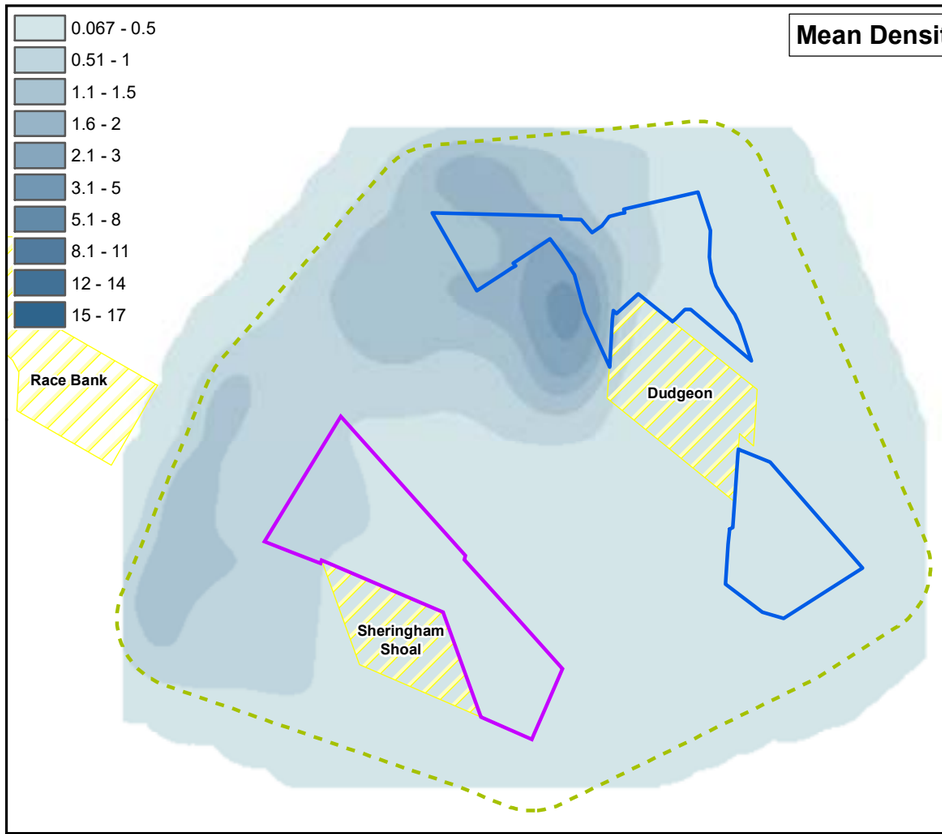

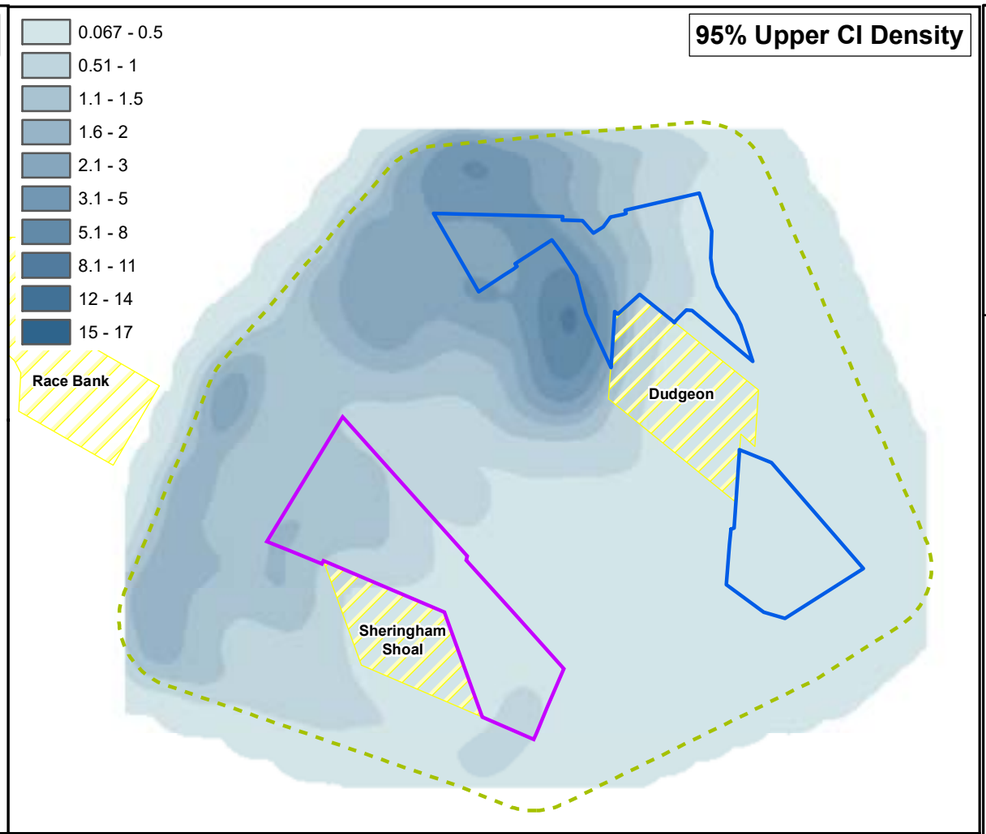

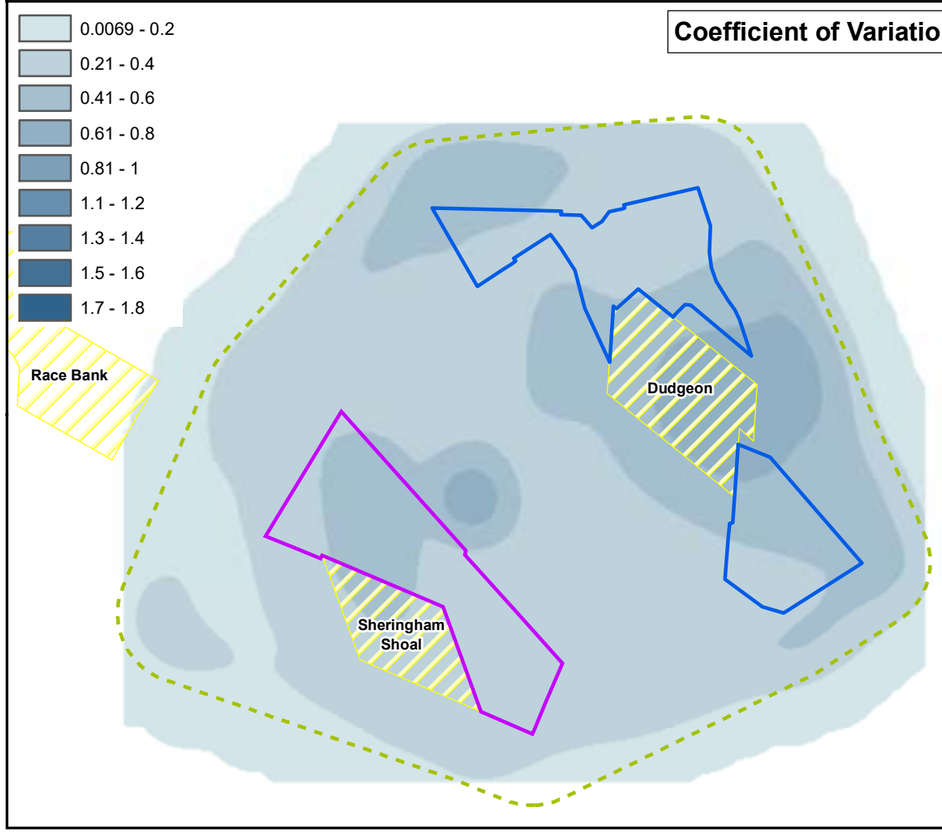

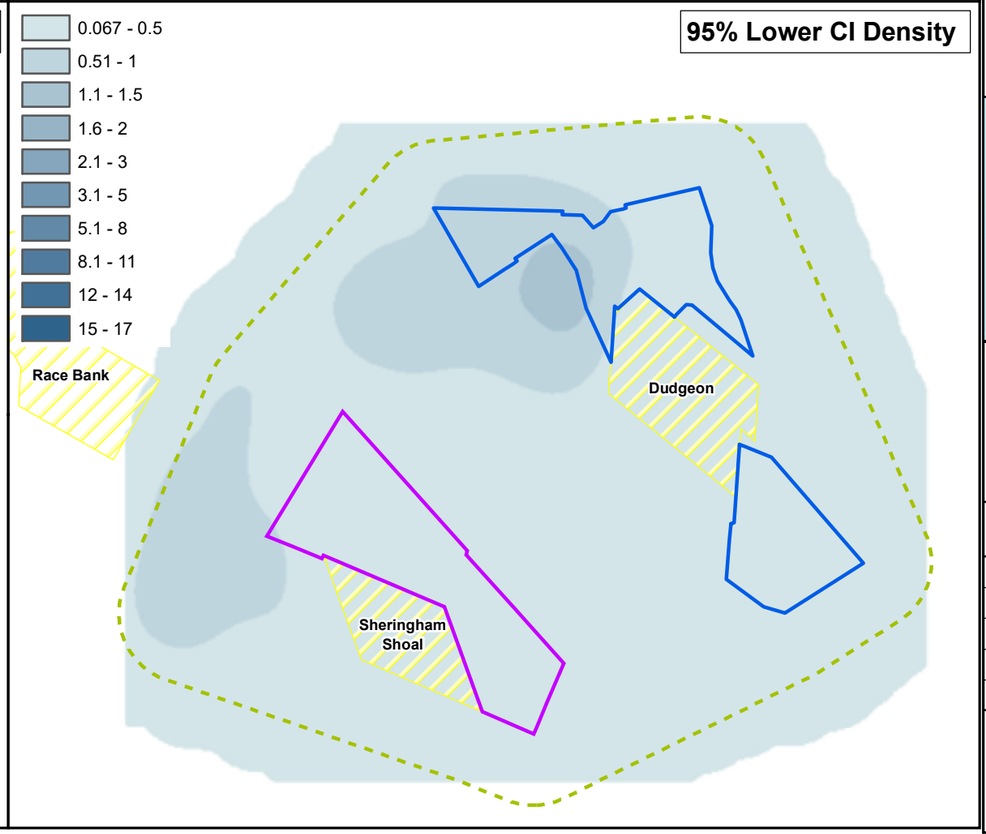

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.41a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0244

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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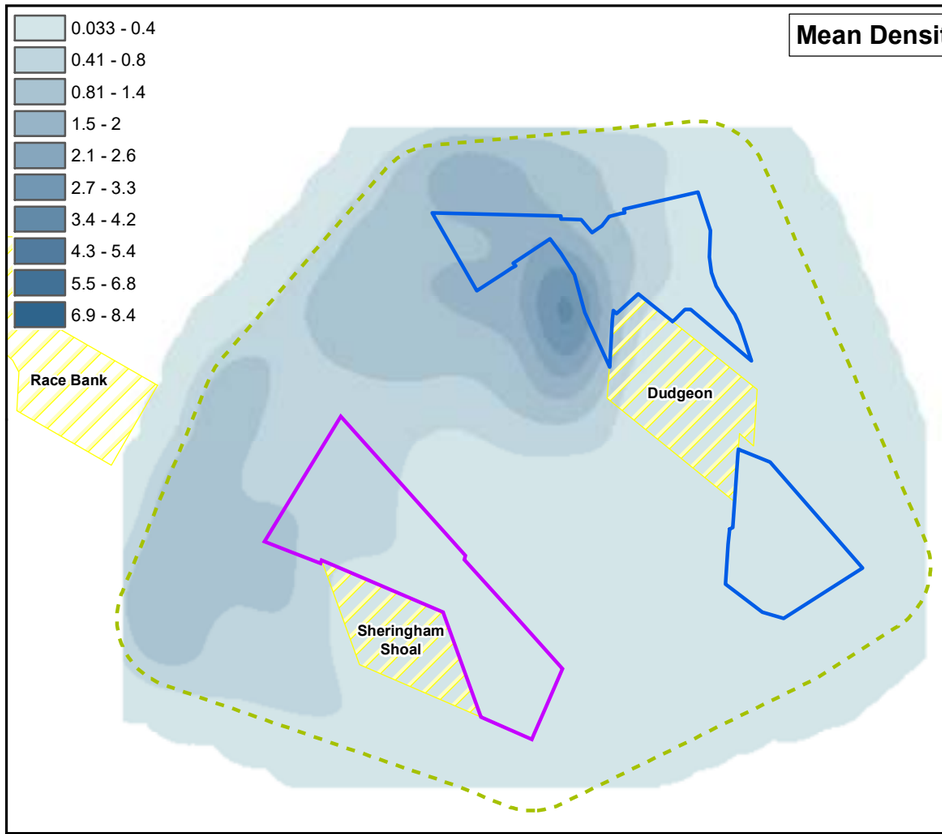

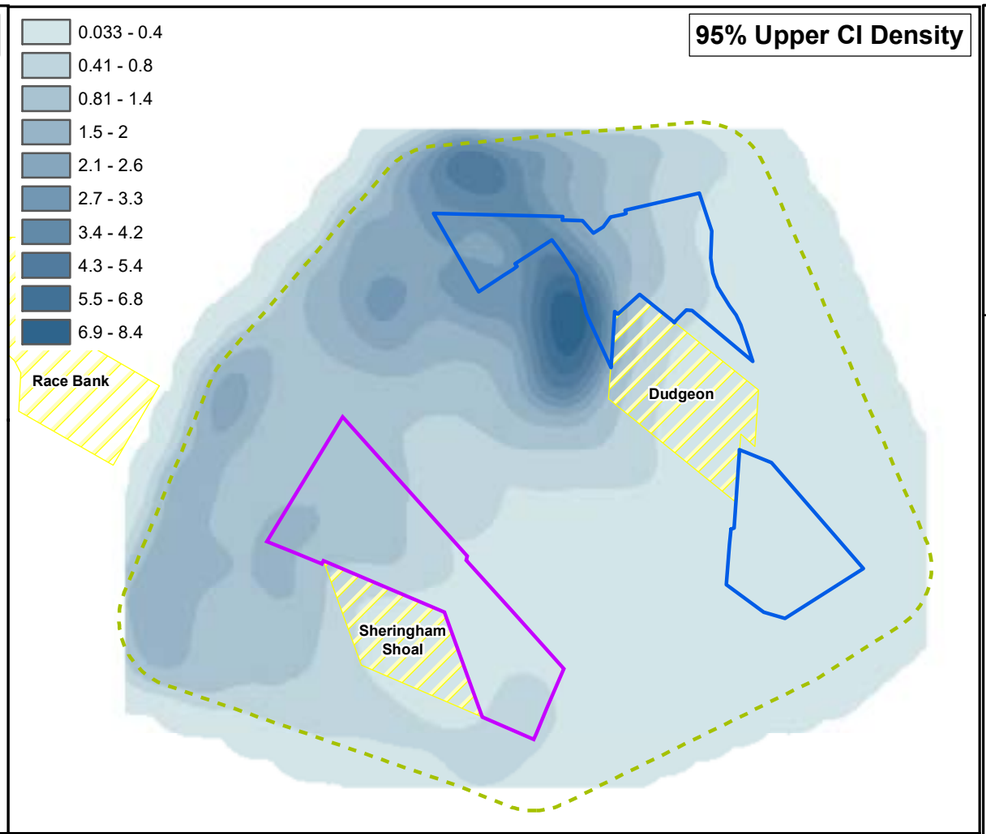

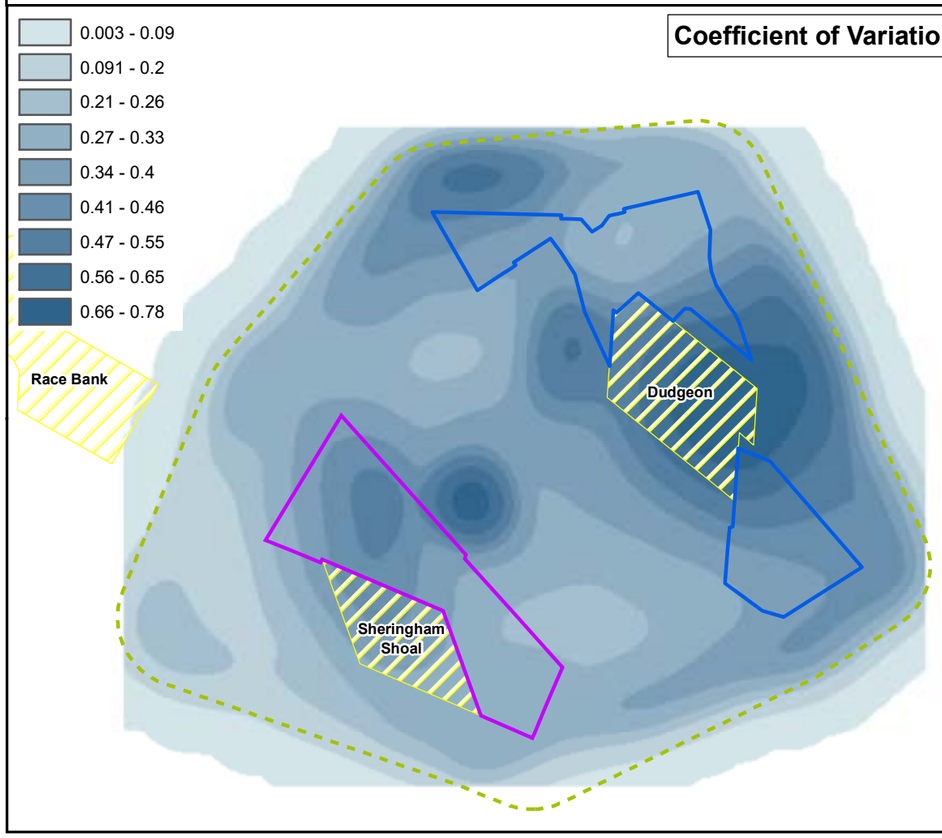

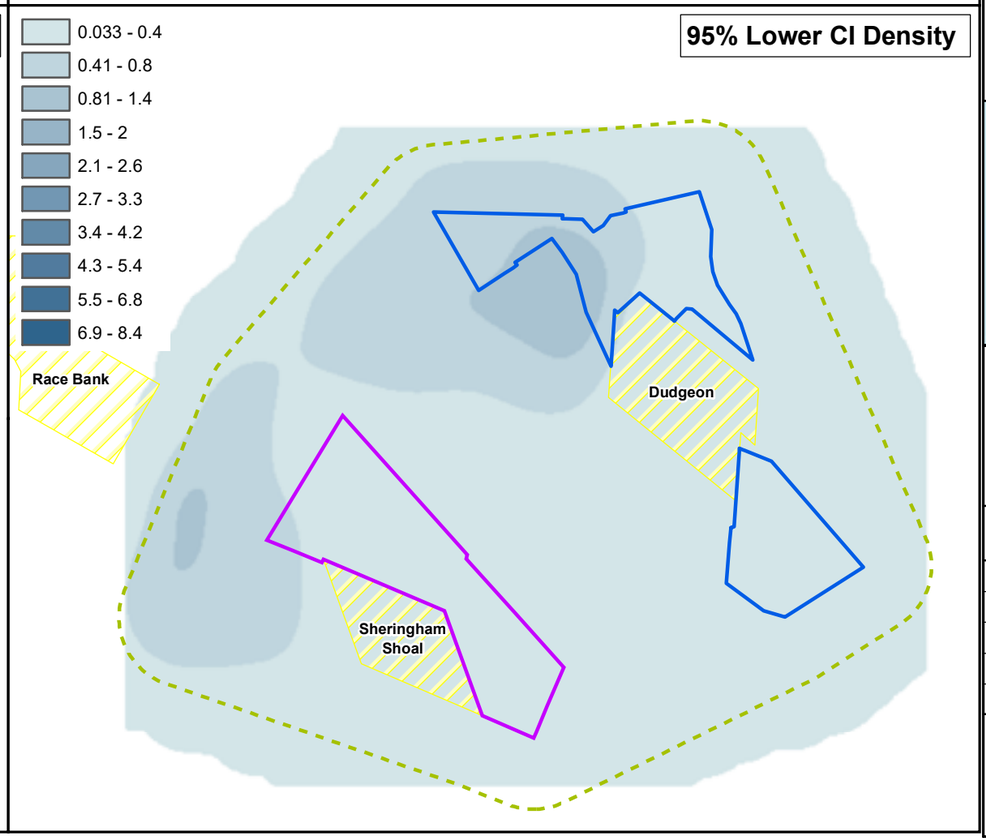

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.41b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0258

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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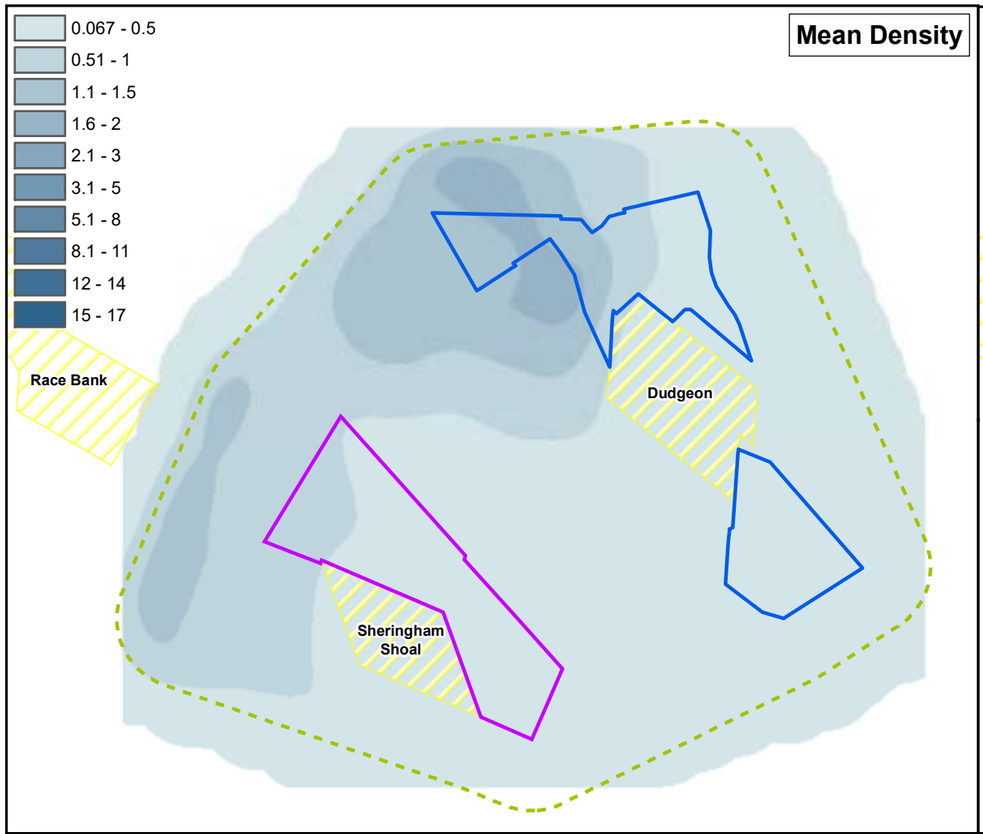

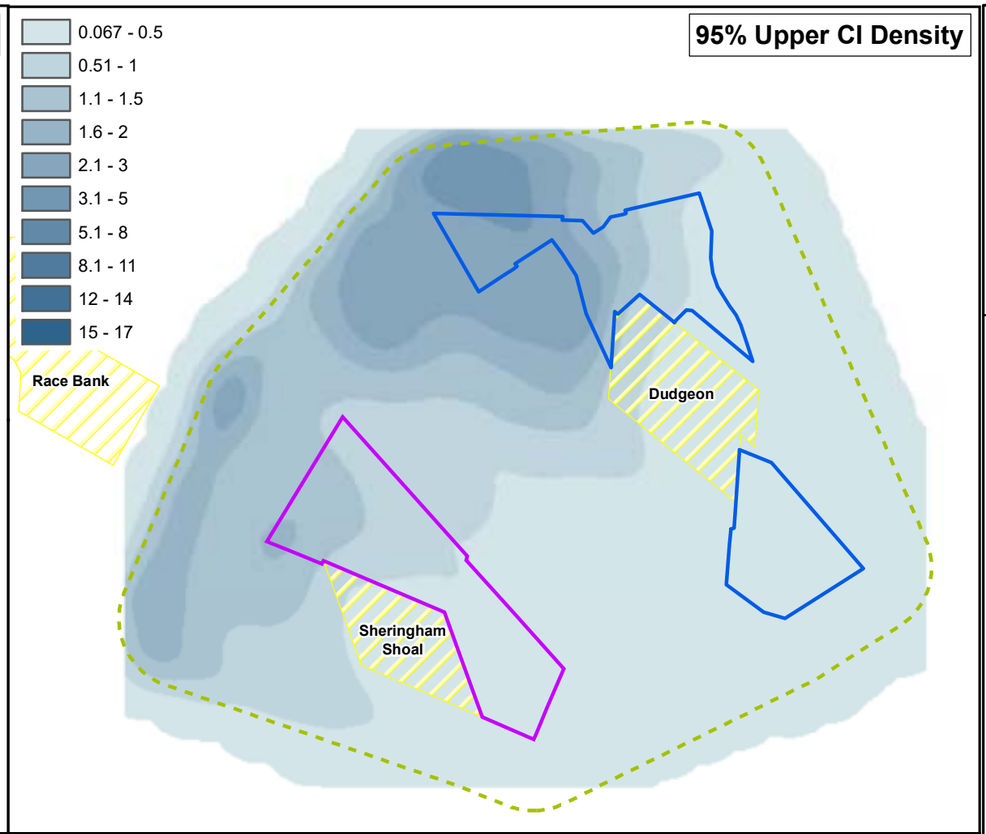

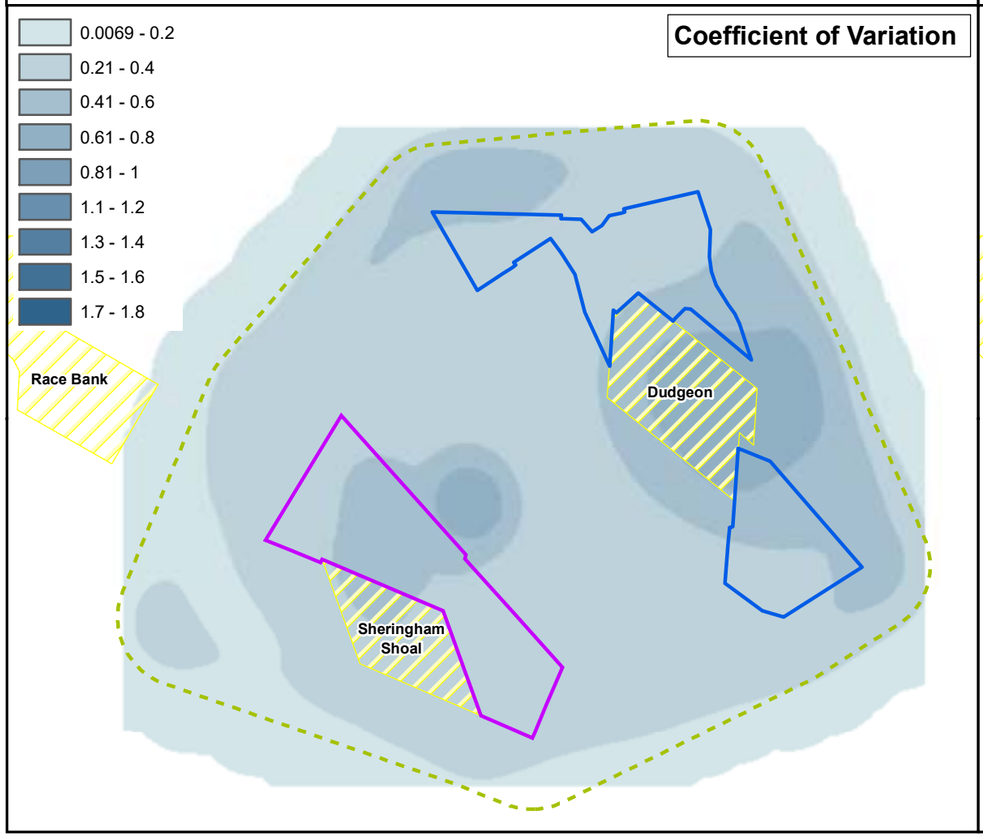

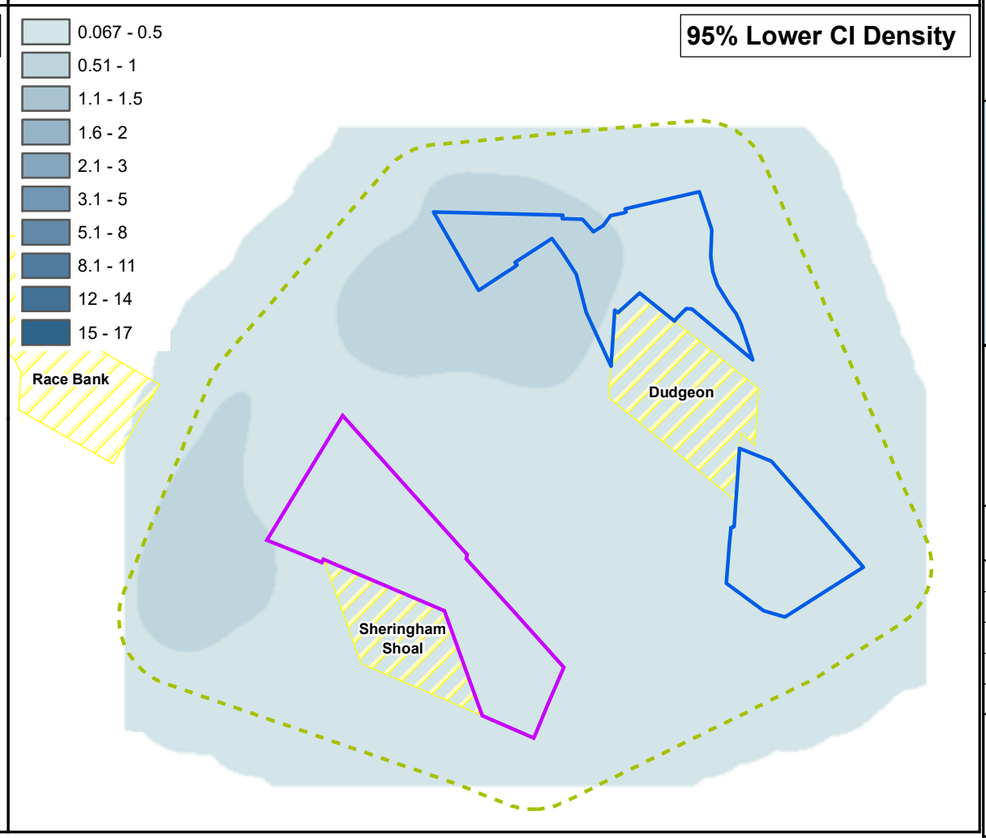

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.42a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0245

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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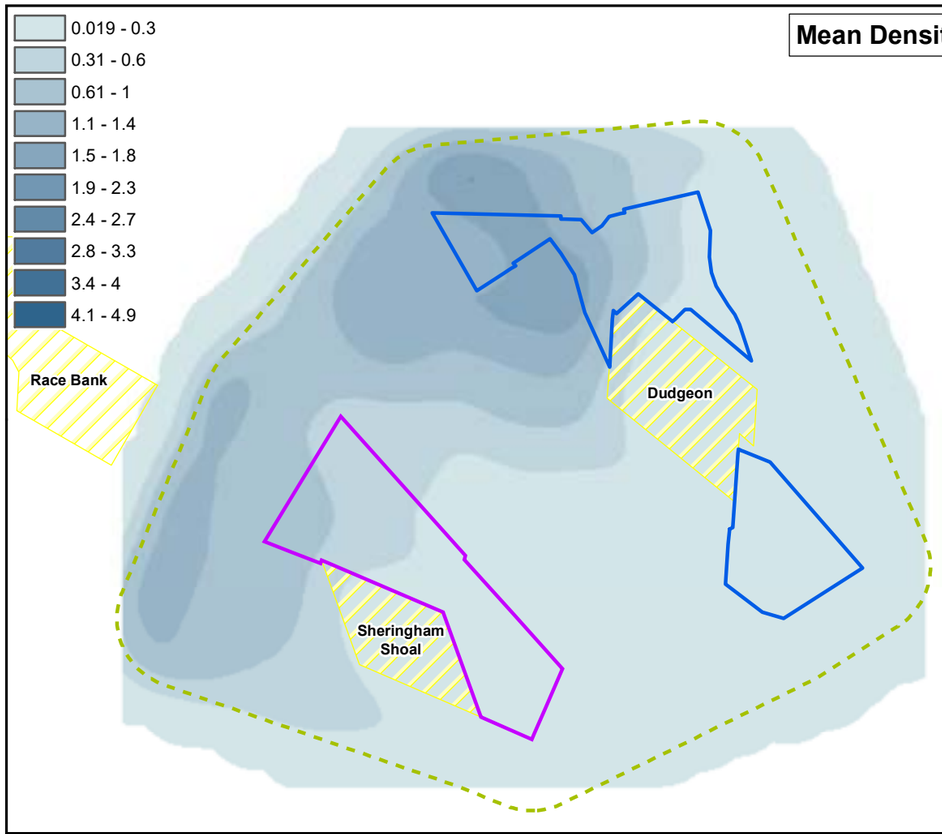

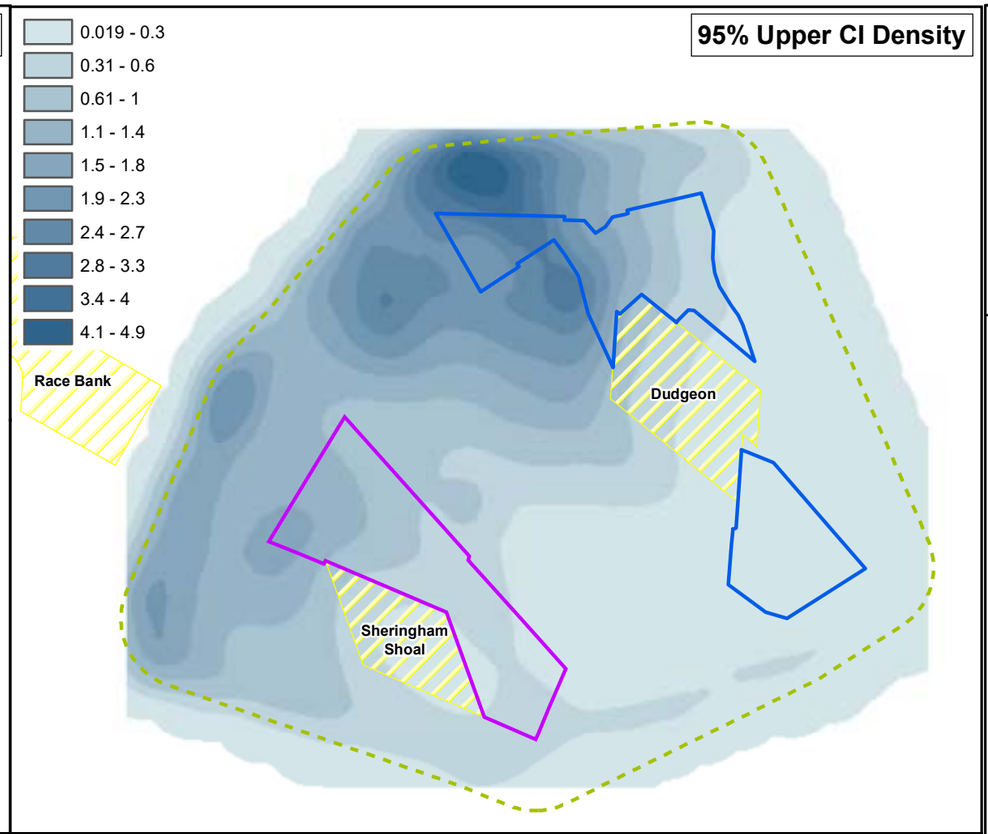

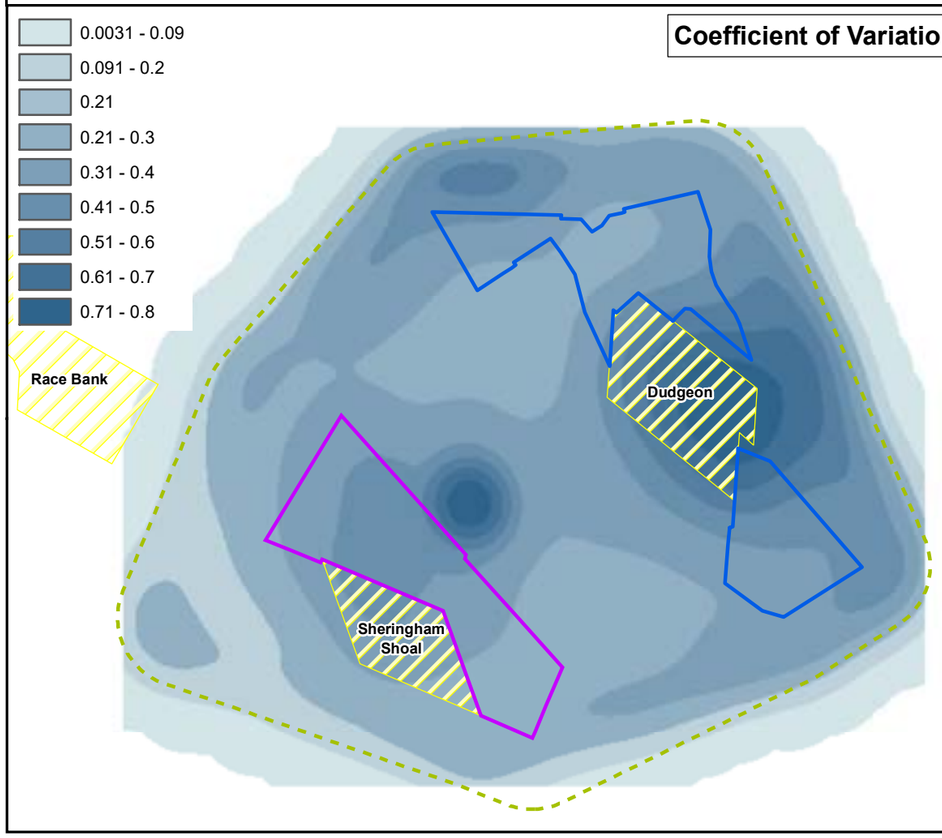

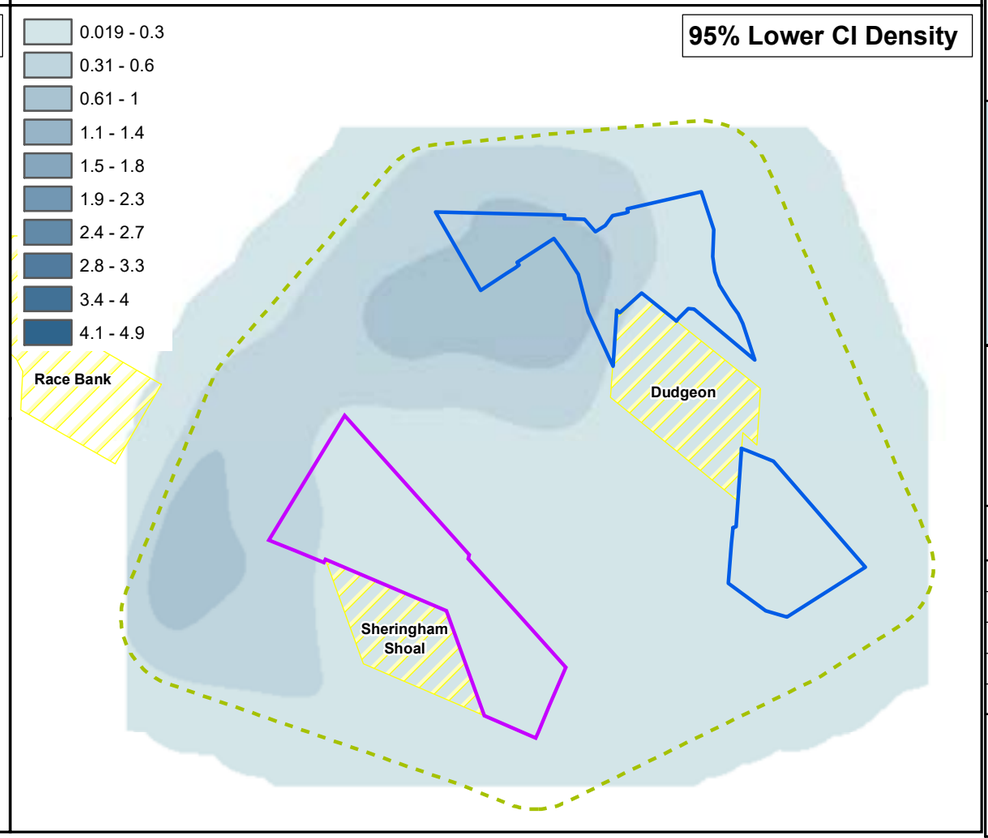

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.42b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - June 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0259

REV	DATE	STATUS	DRW	CHK	APR
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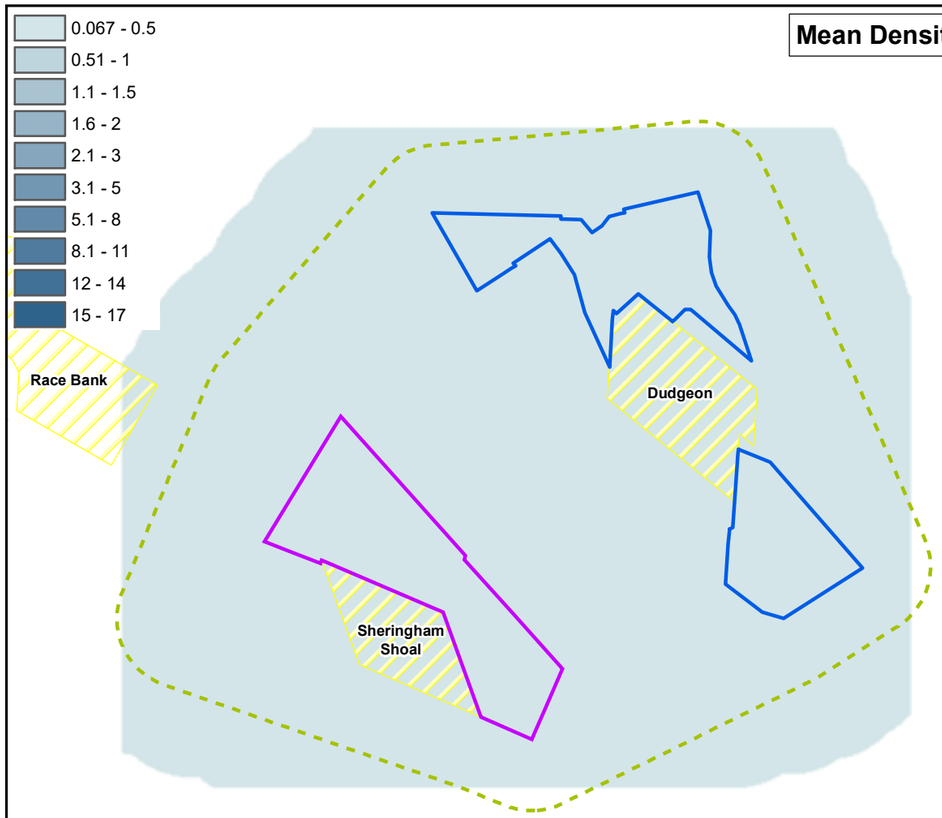

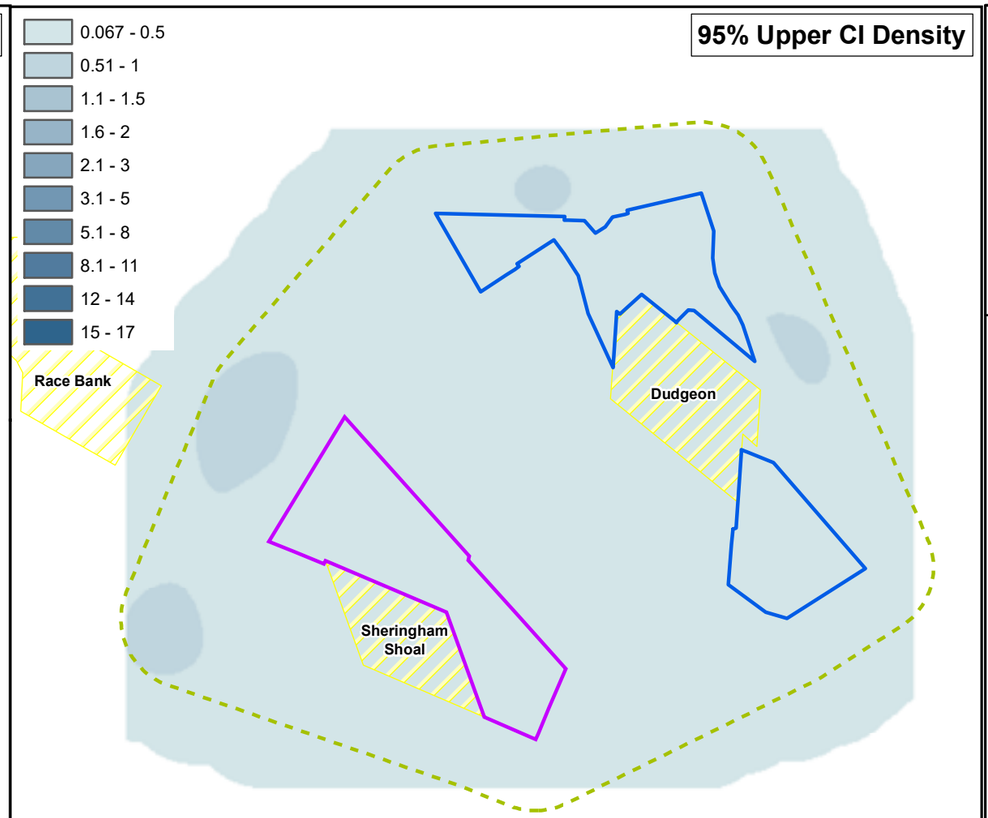

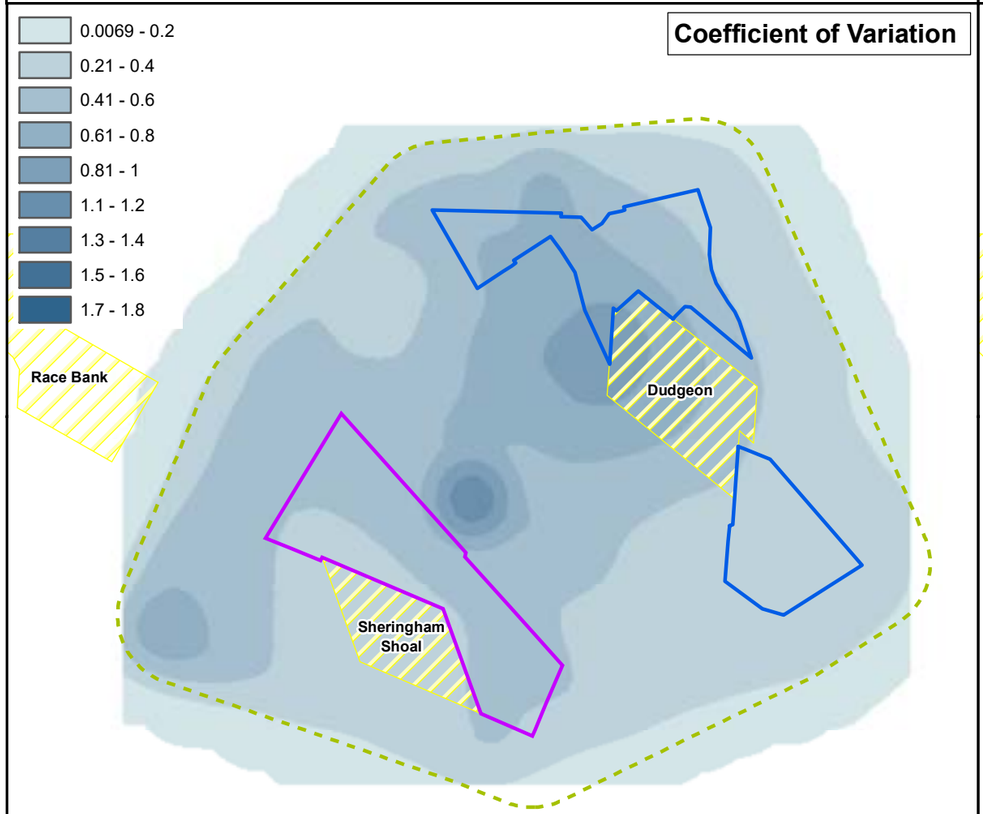

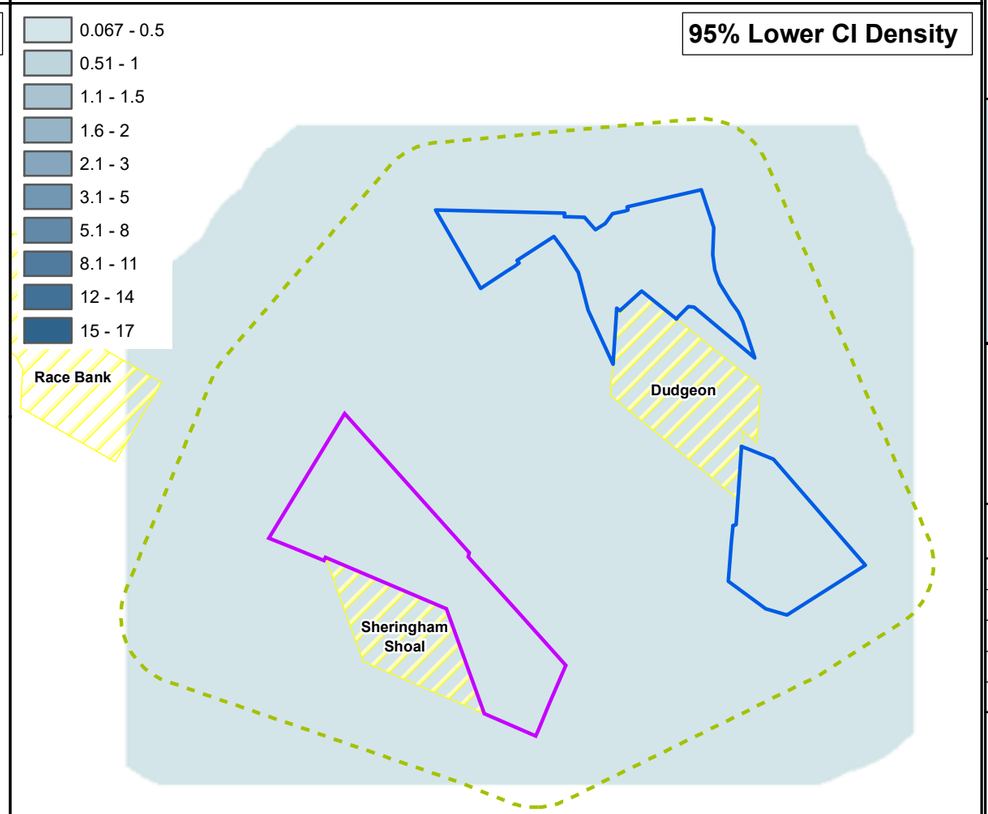

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.43a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0246

REV	DATE	STATUS	DRW	CHK	APR
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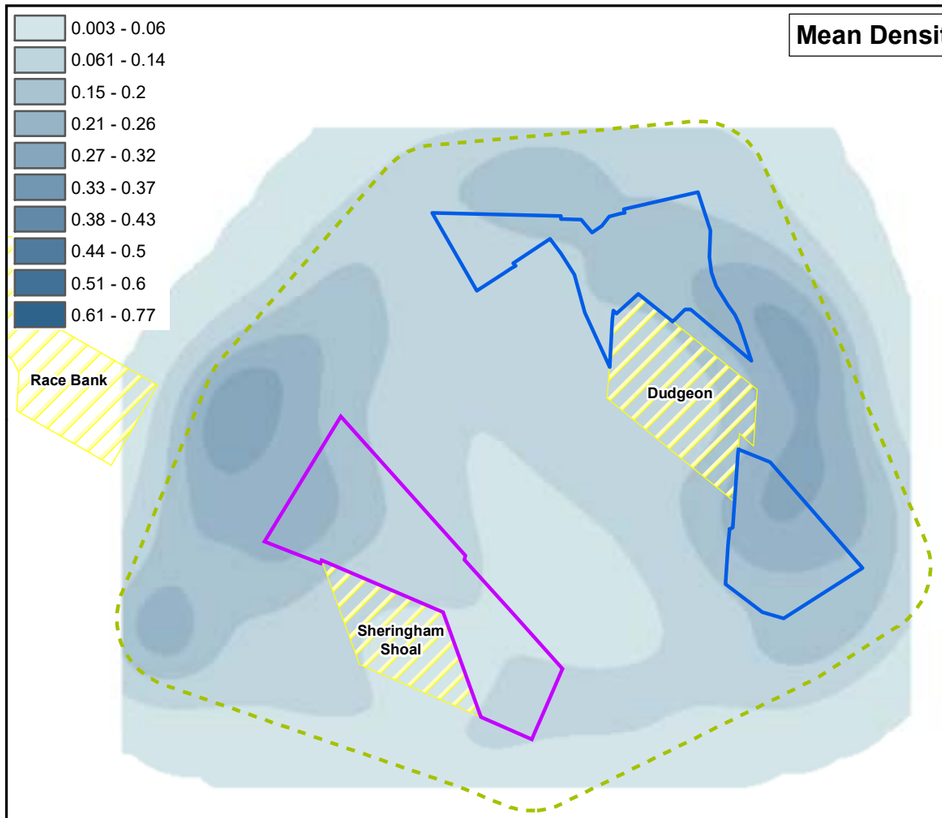

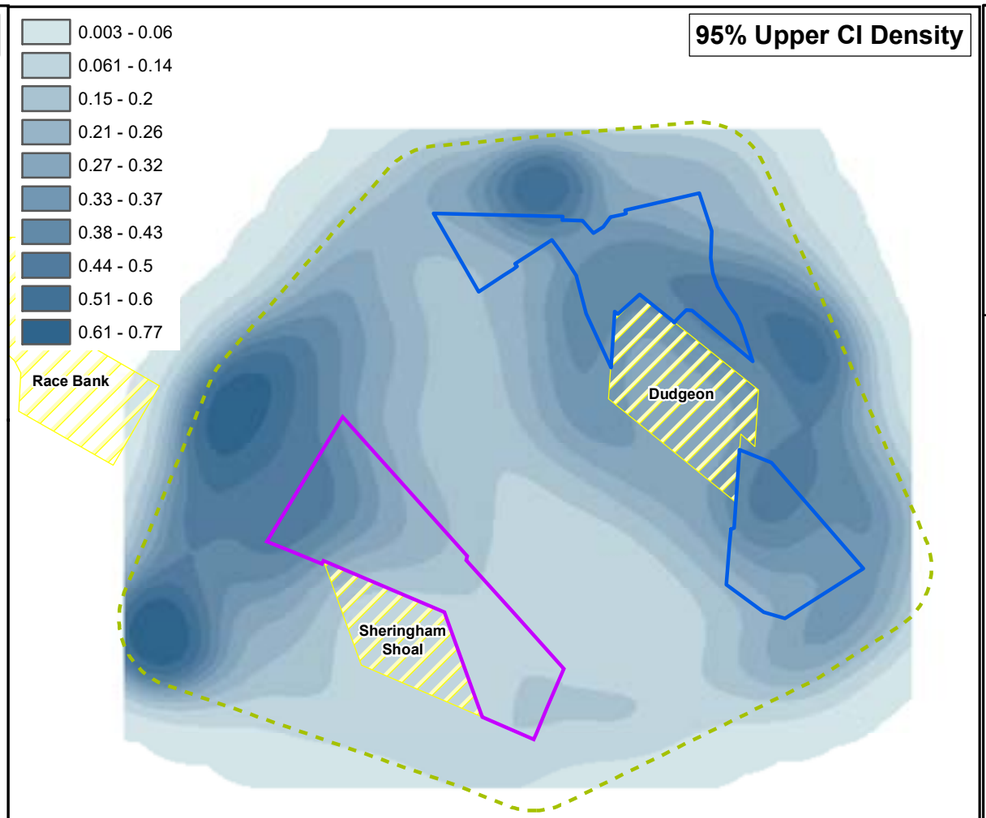

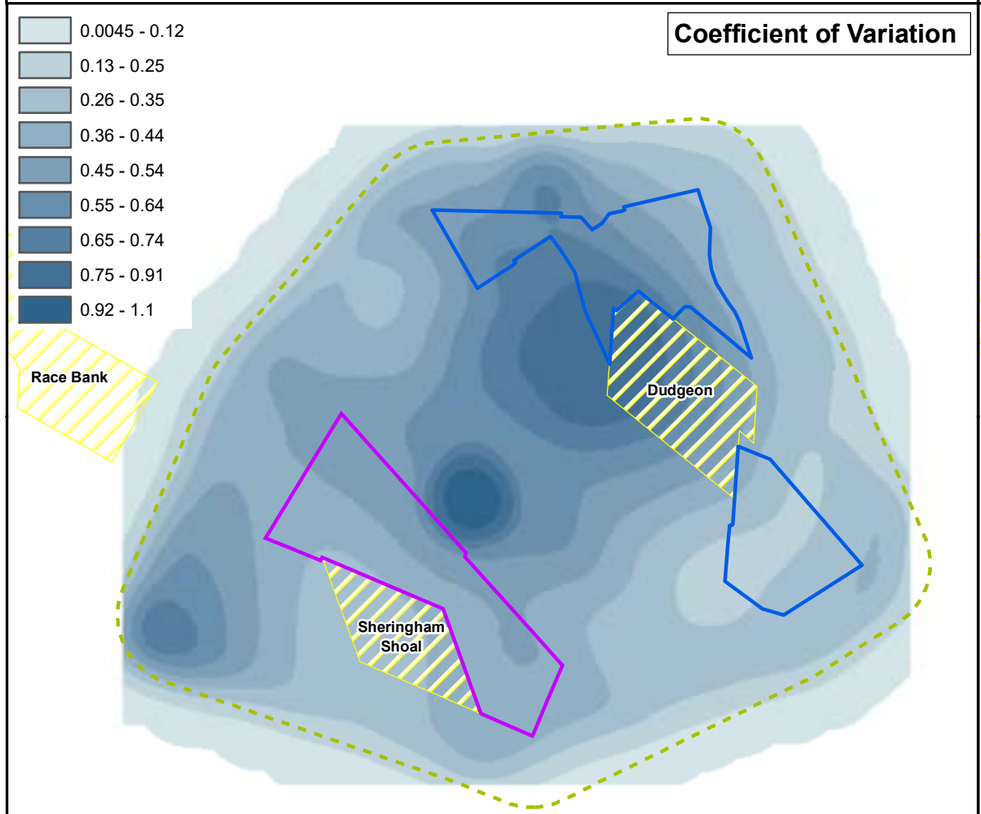

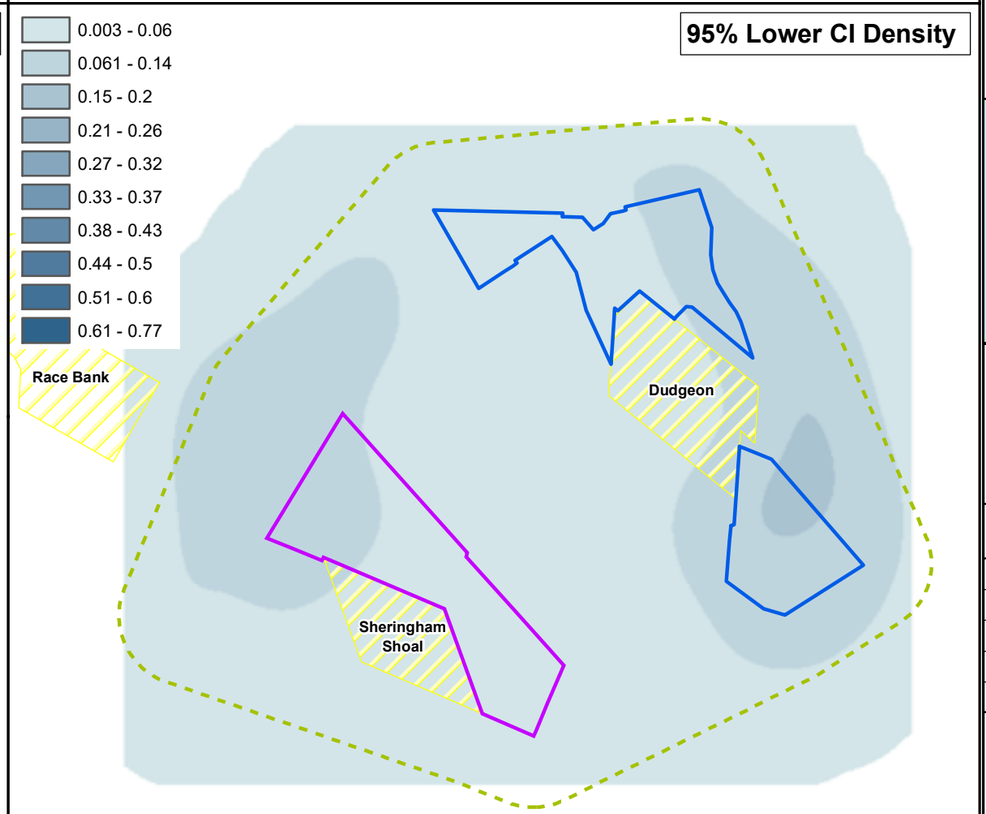

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.43b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0260

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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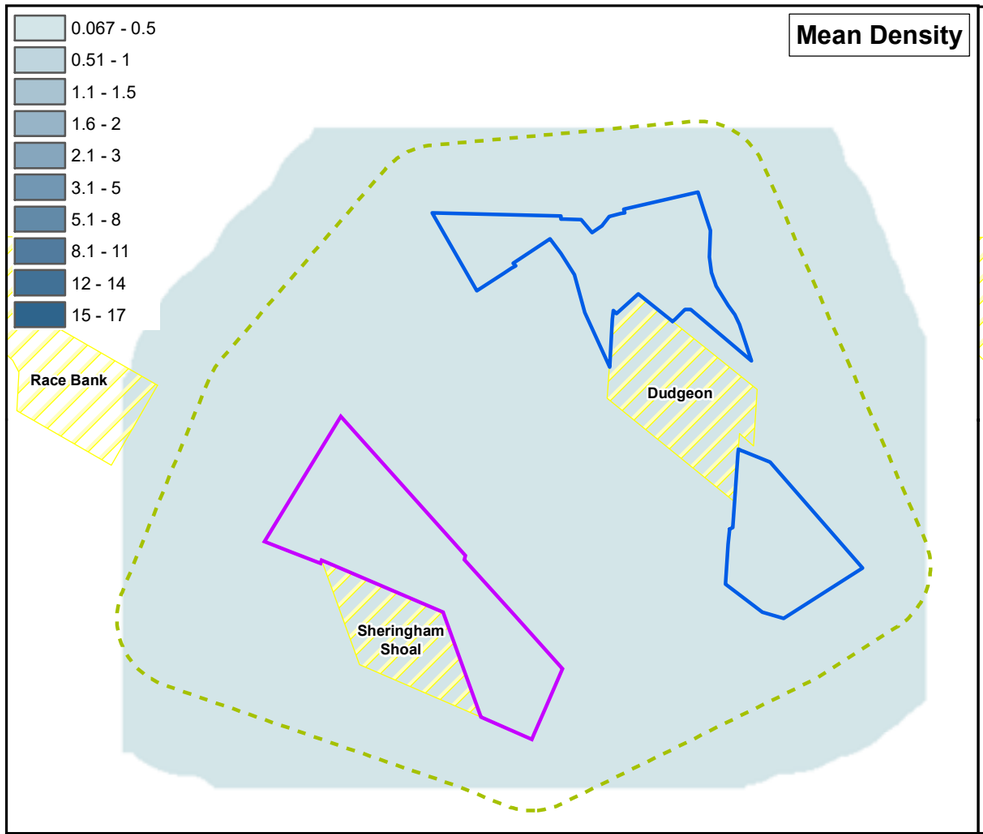

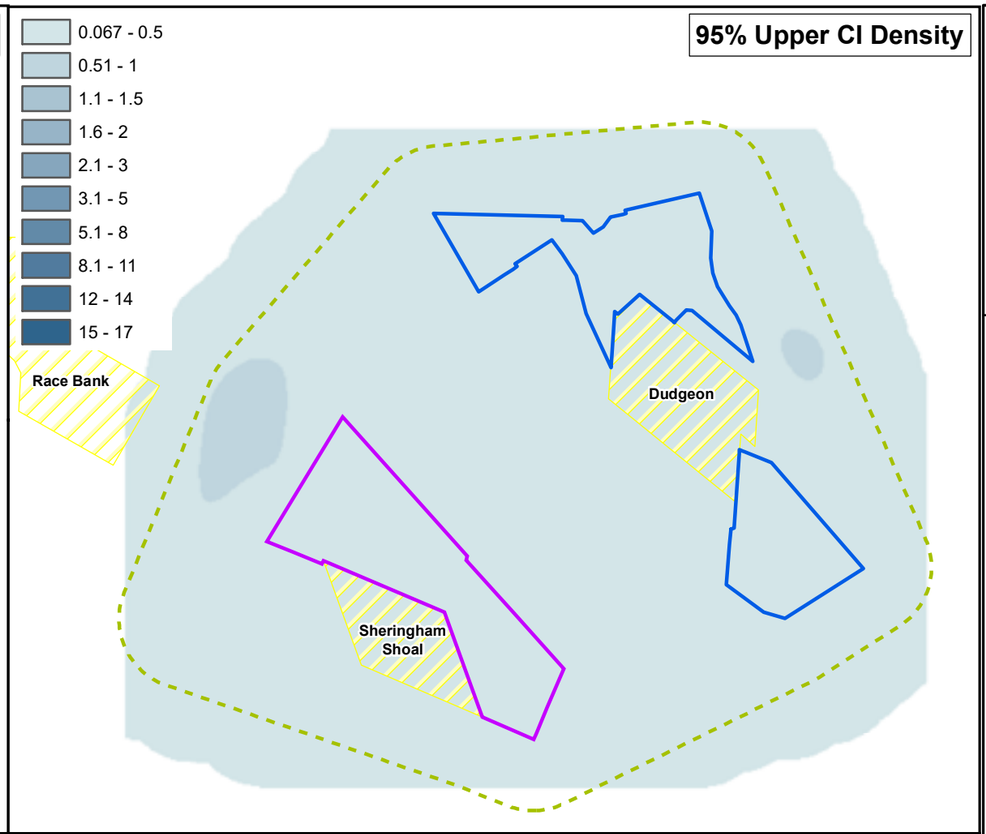

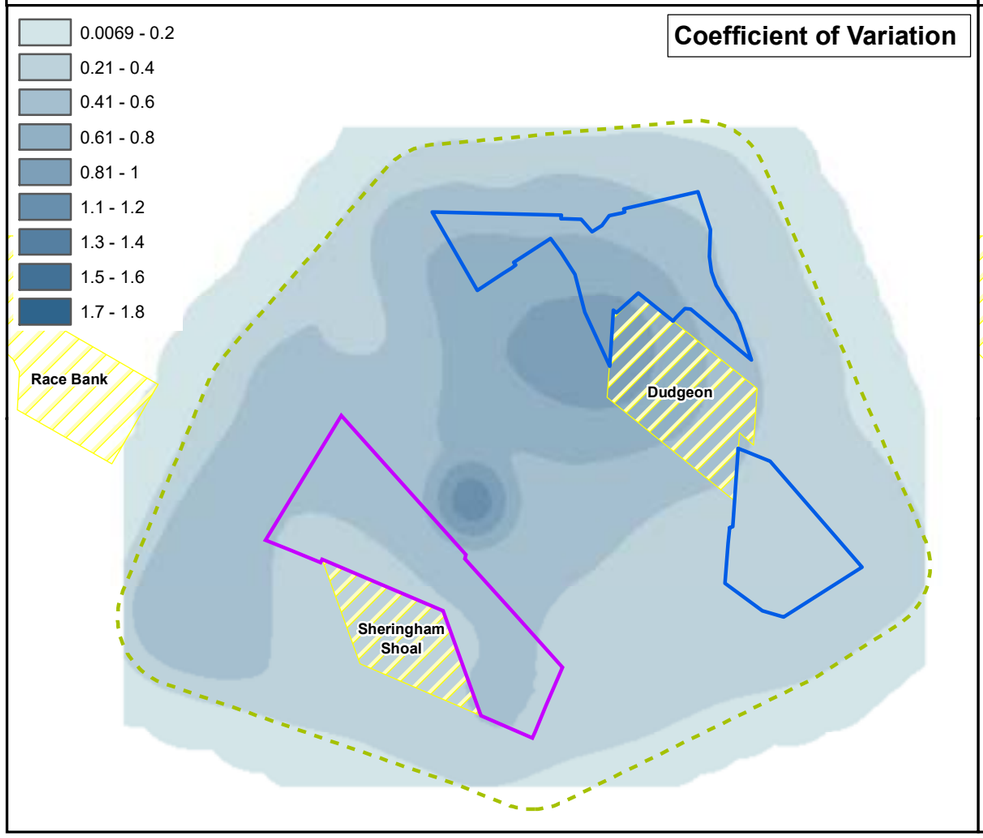

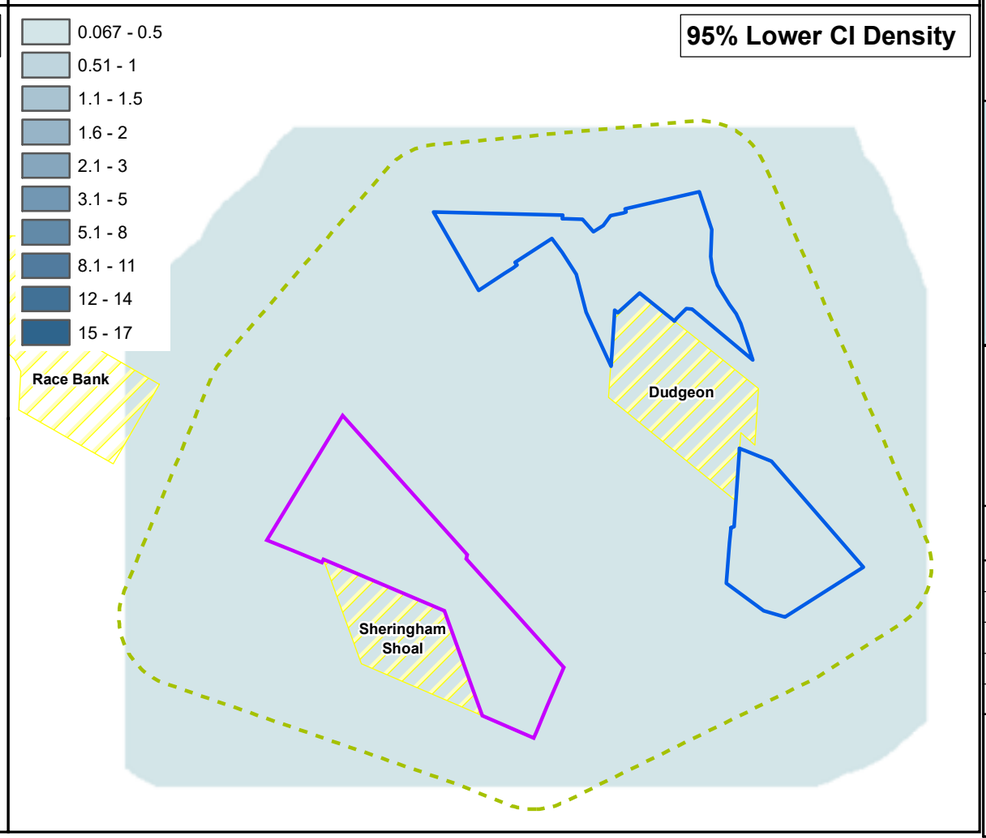

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.44a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0247

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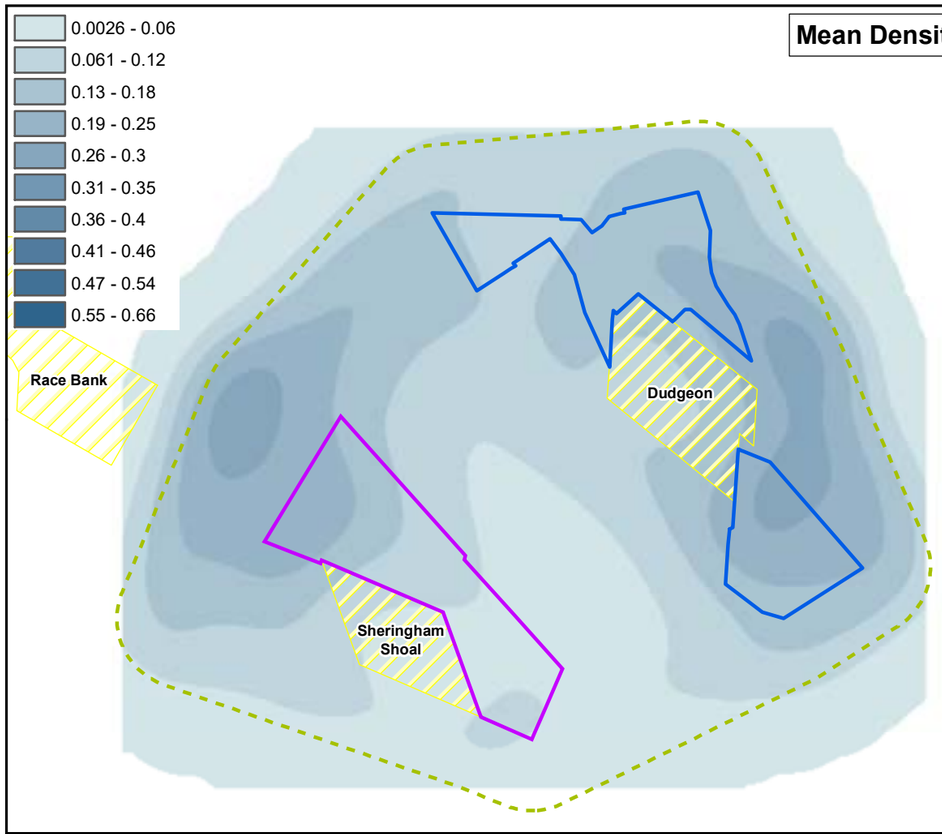

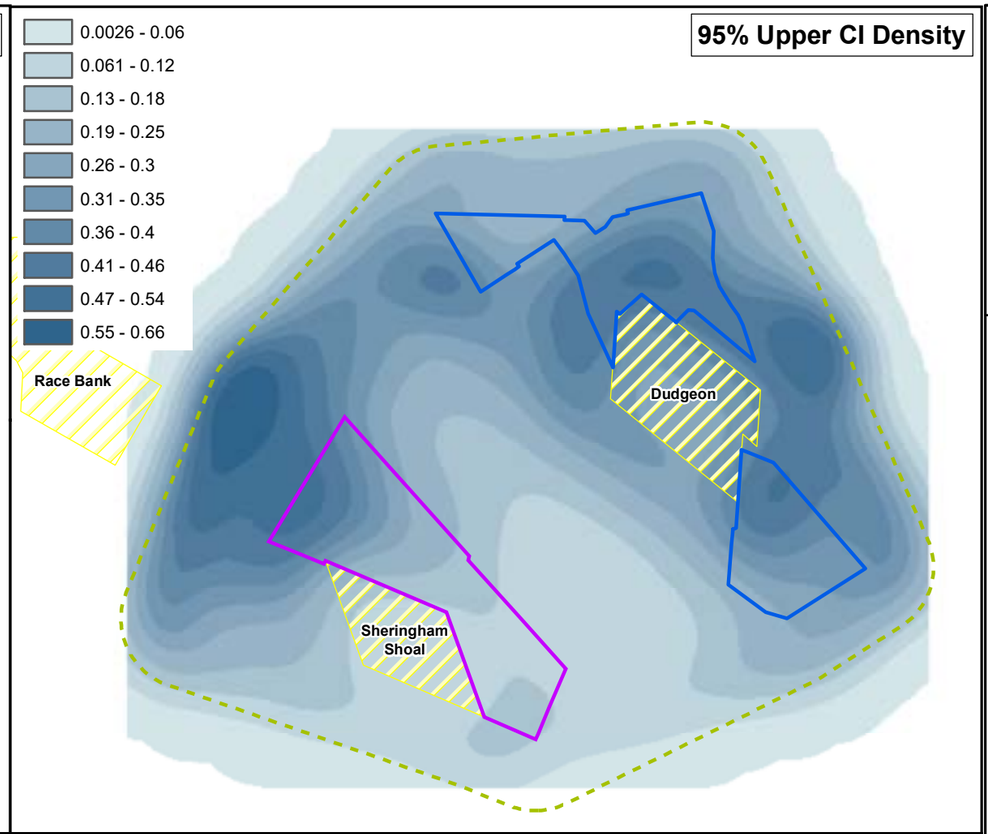

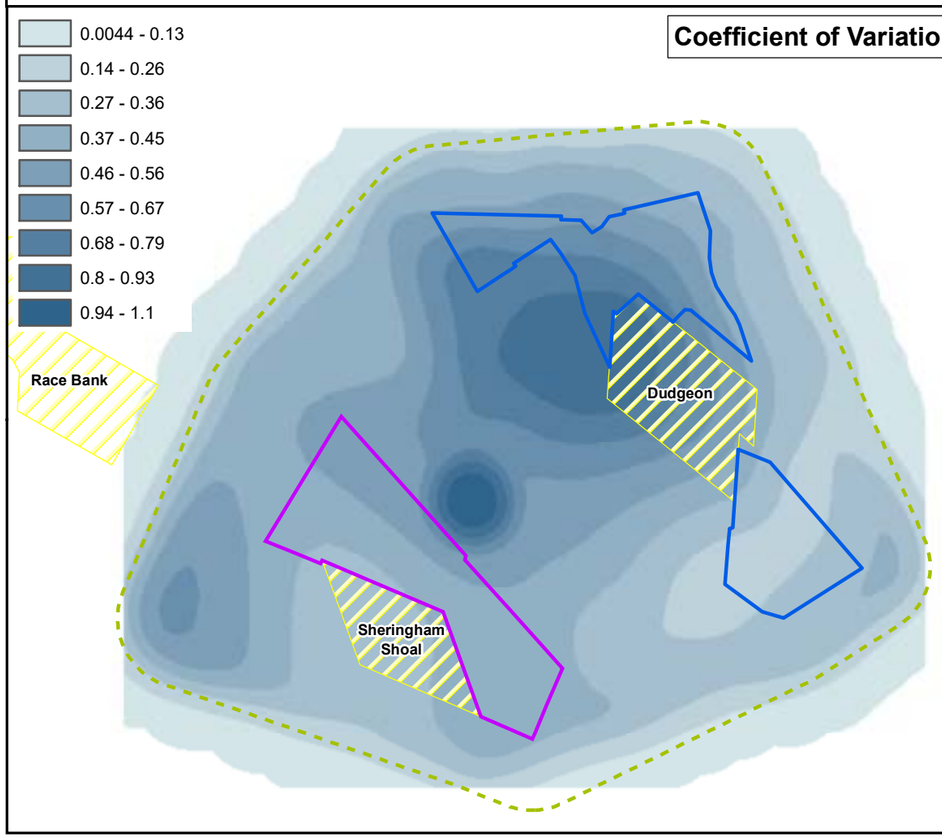

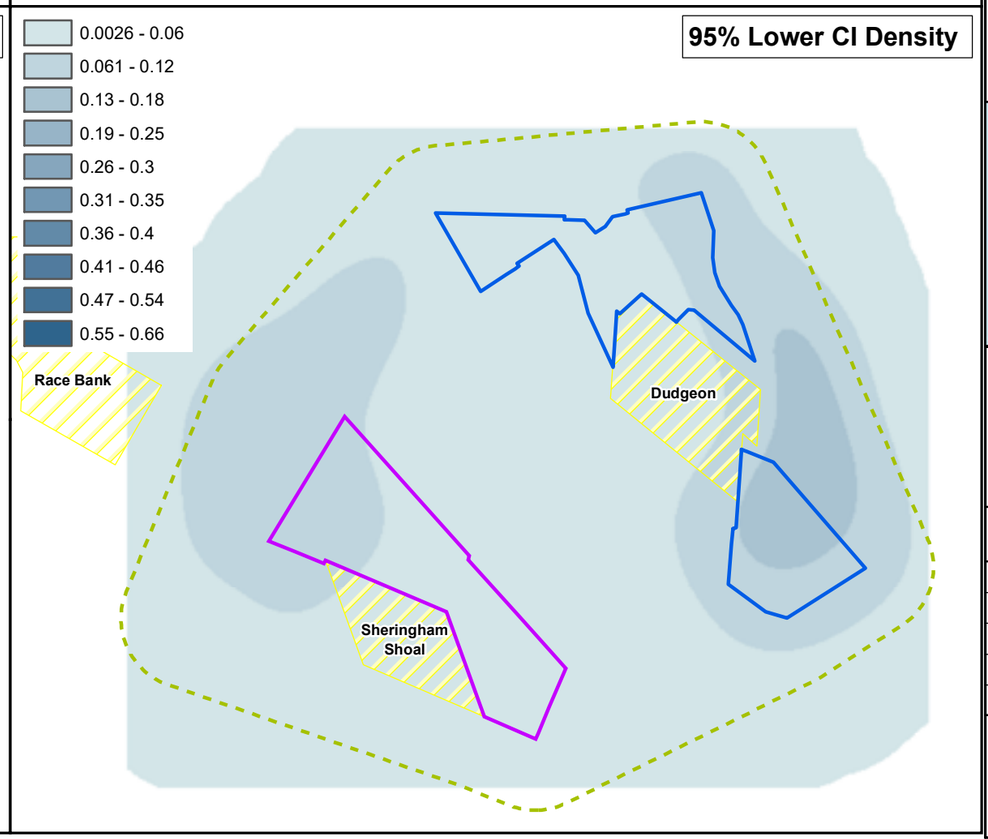

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.44b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - July 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0261

A	13/06/2022	First Issue	GC	RI	AP
REV	DATE	STATUS	DRW	CHK	APR

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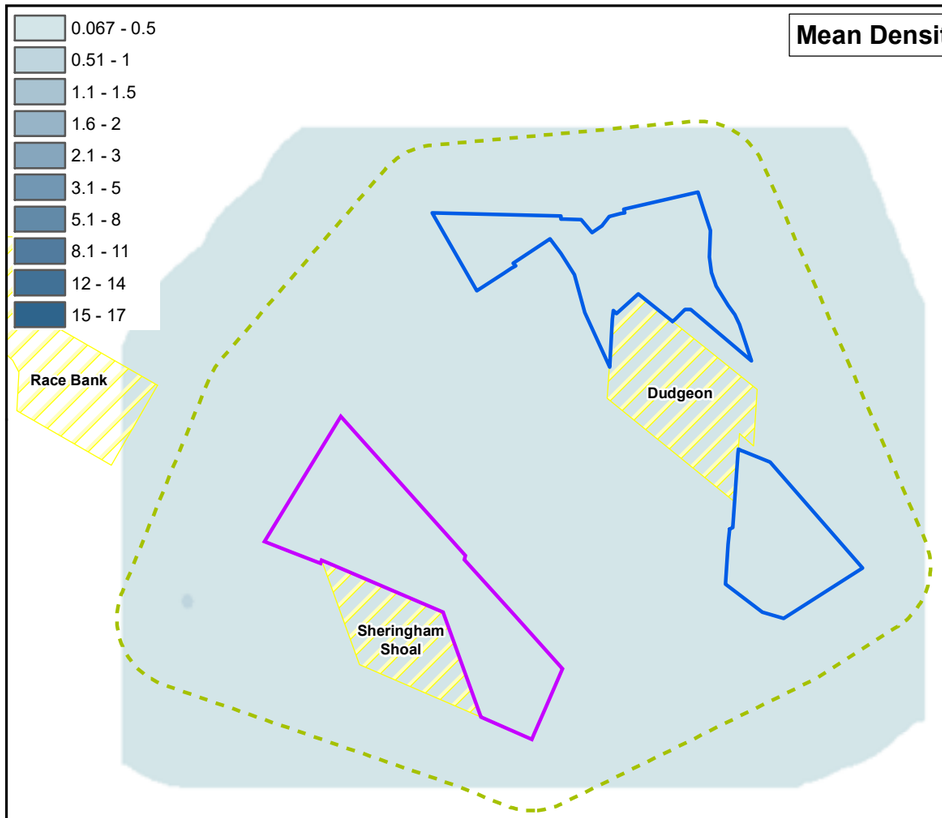

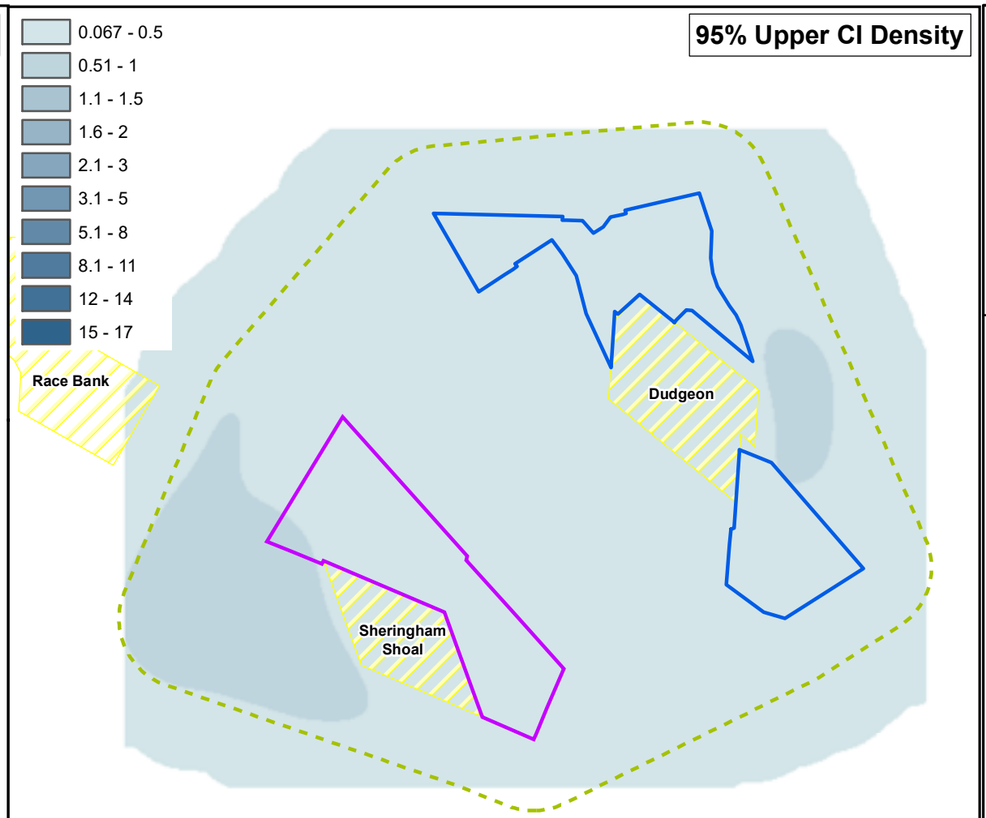

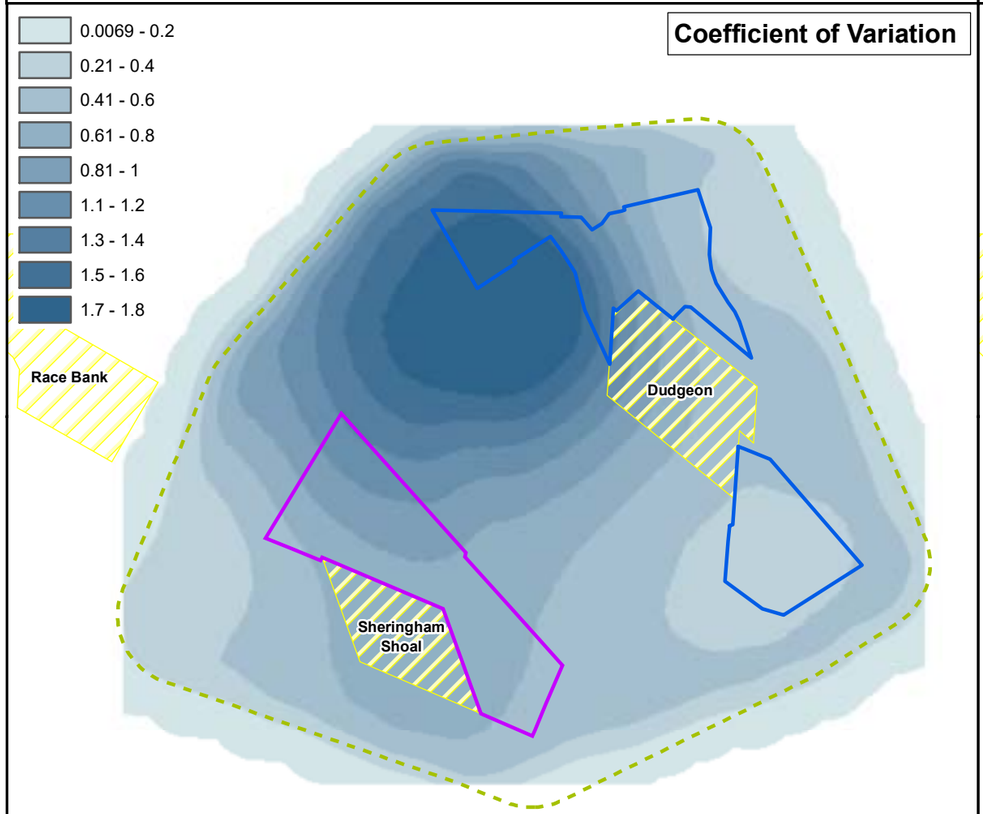

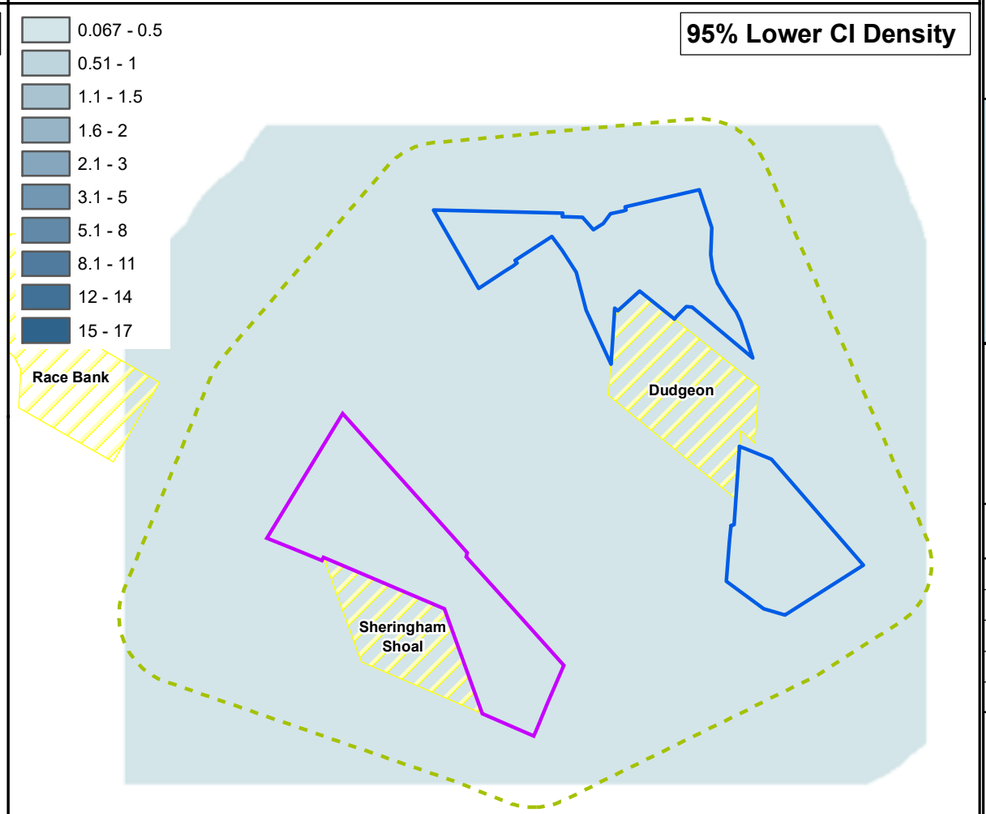

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.45a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - August 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0248

REV	DATE	STATUS	DRW	CHK	APR
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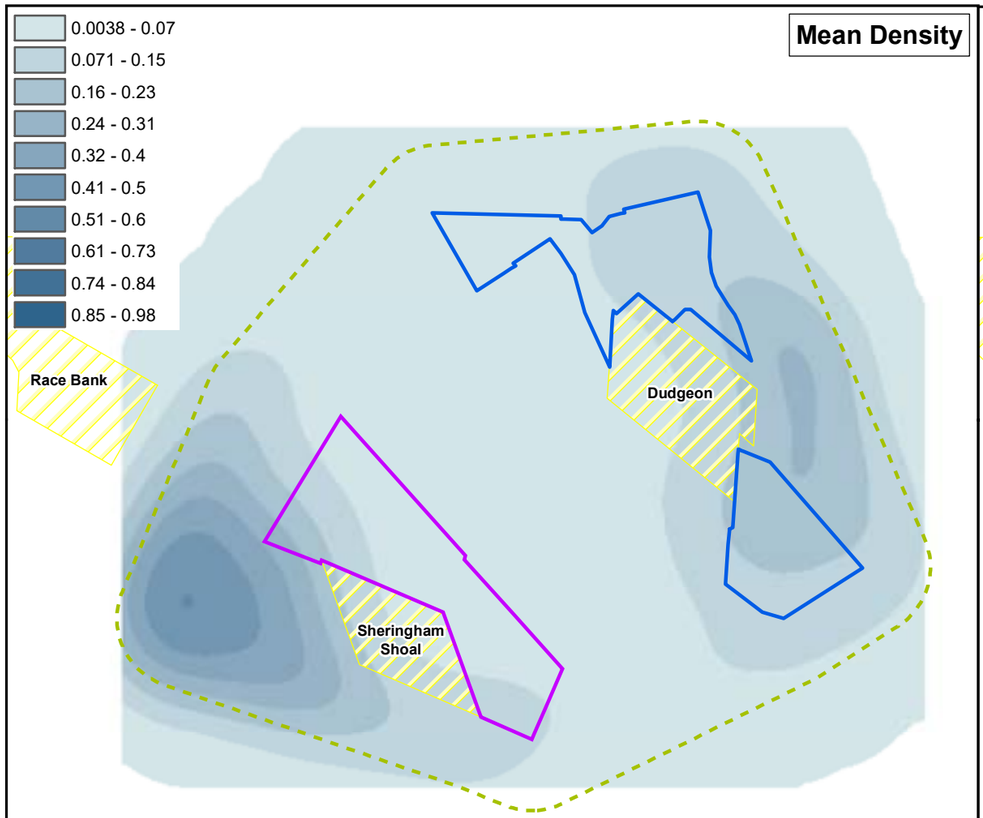

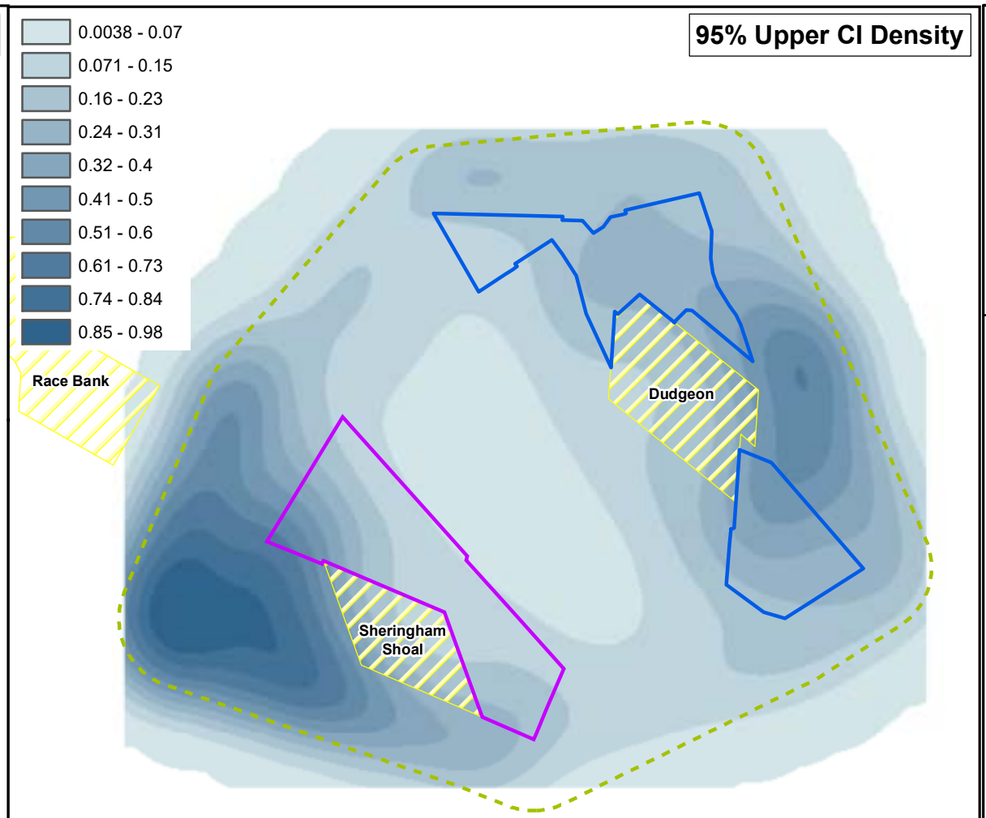

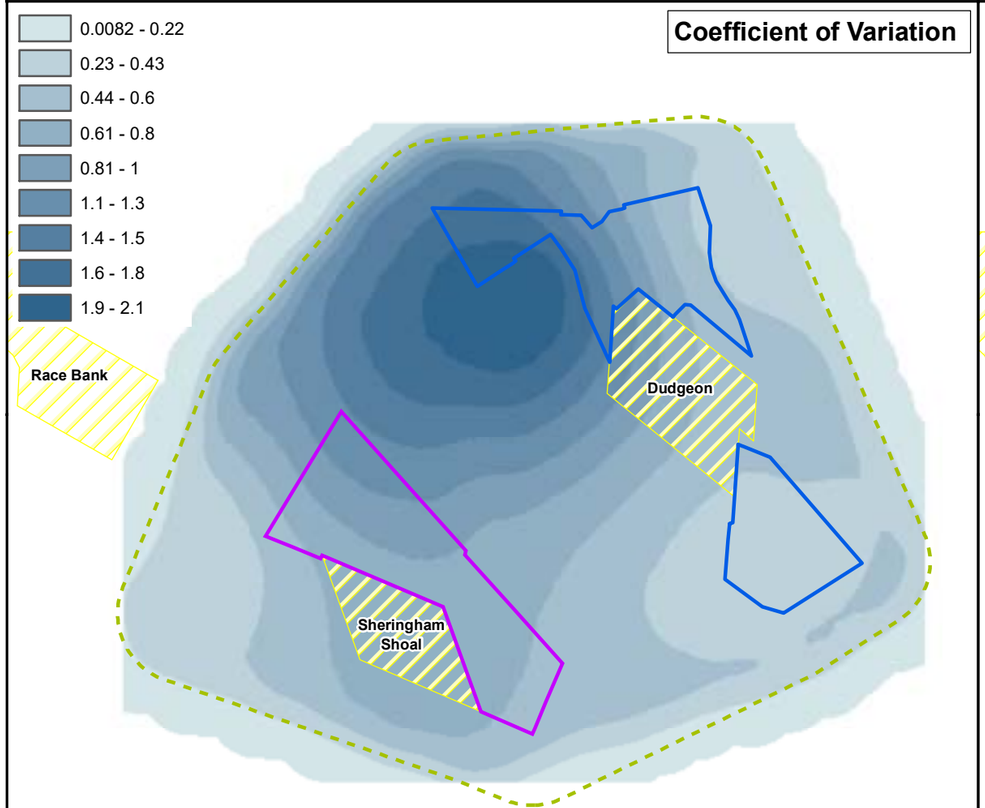

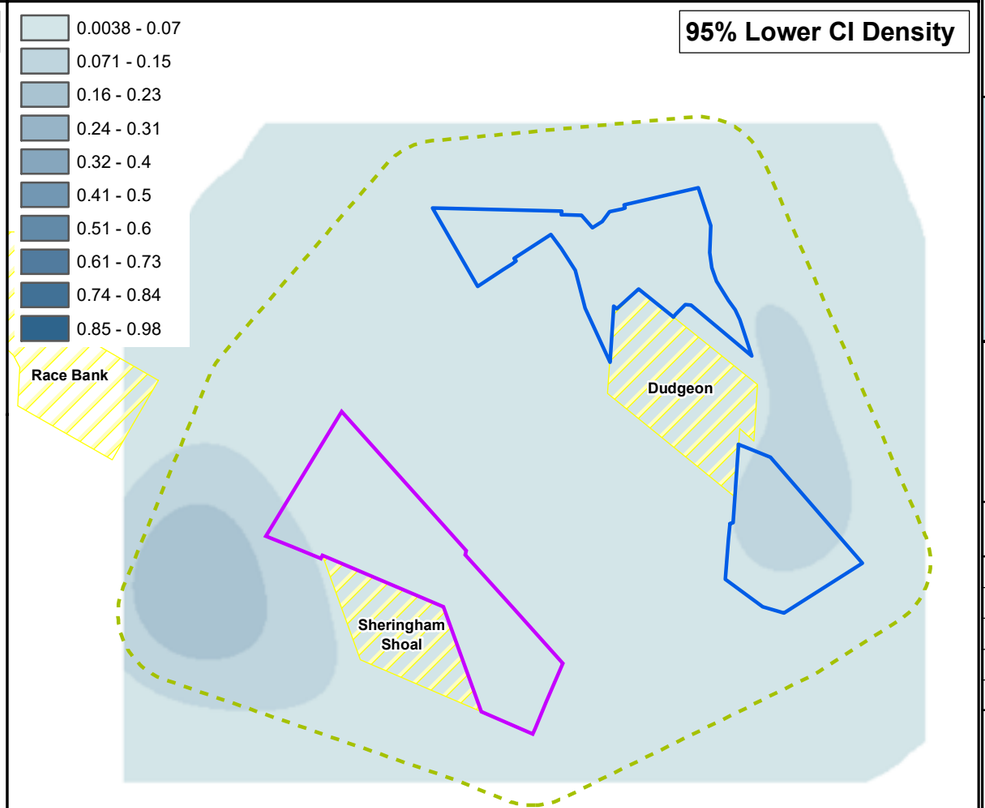

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.45b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - August 2019 survey one

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0262

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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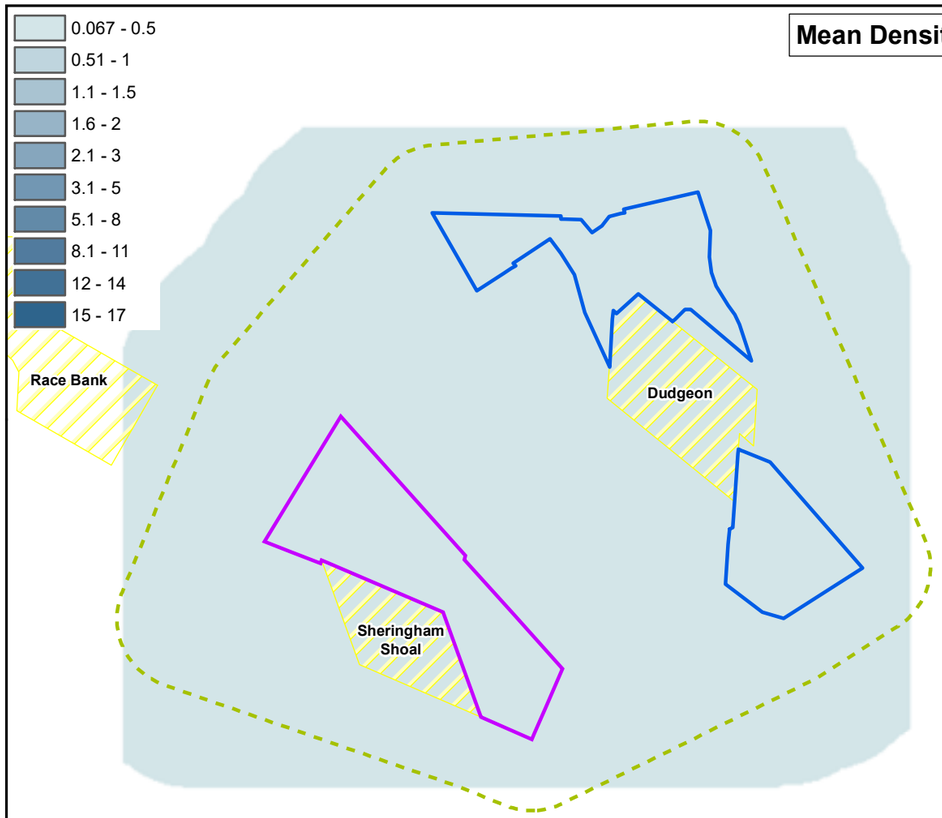

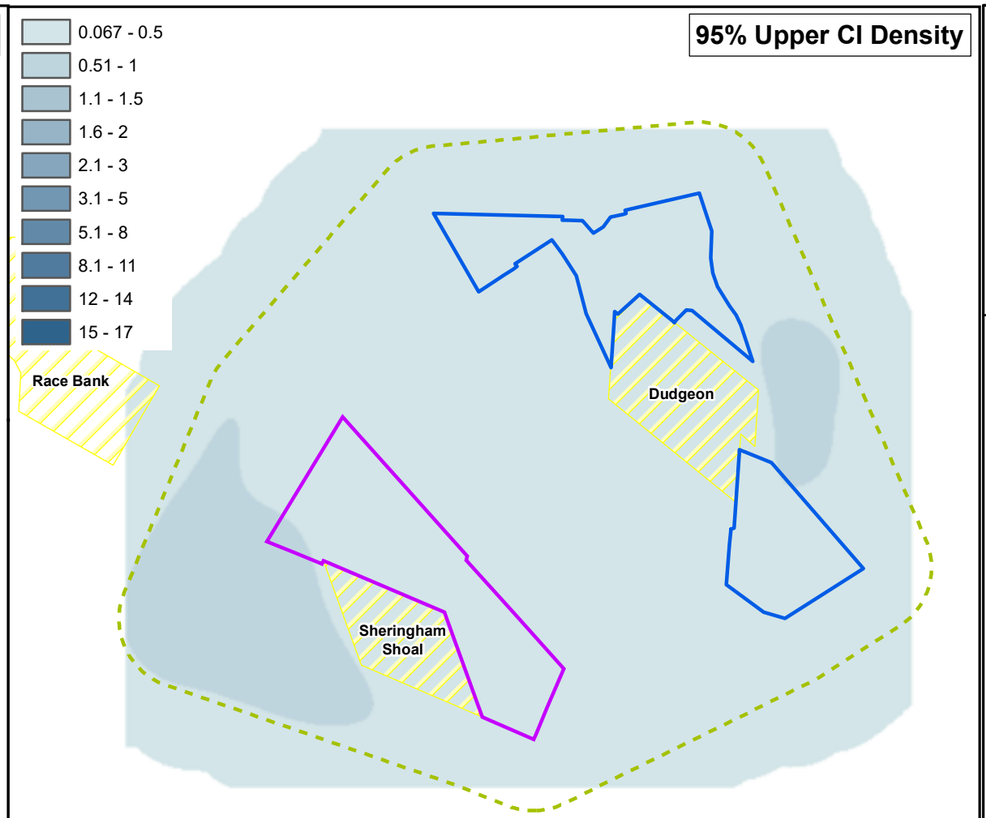

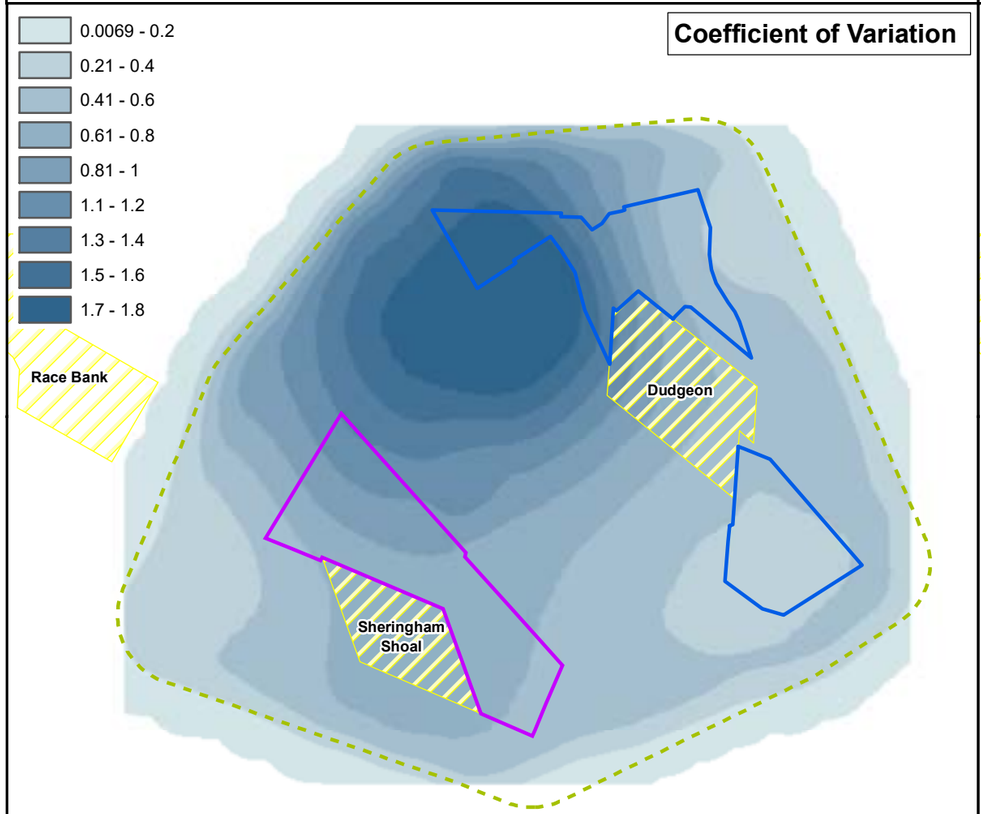

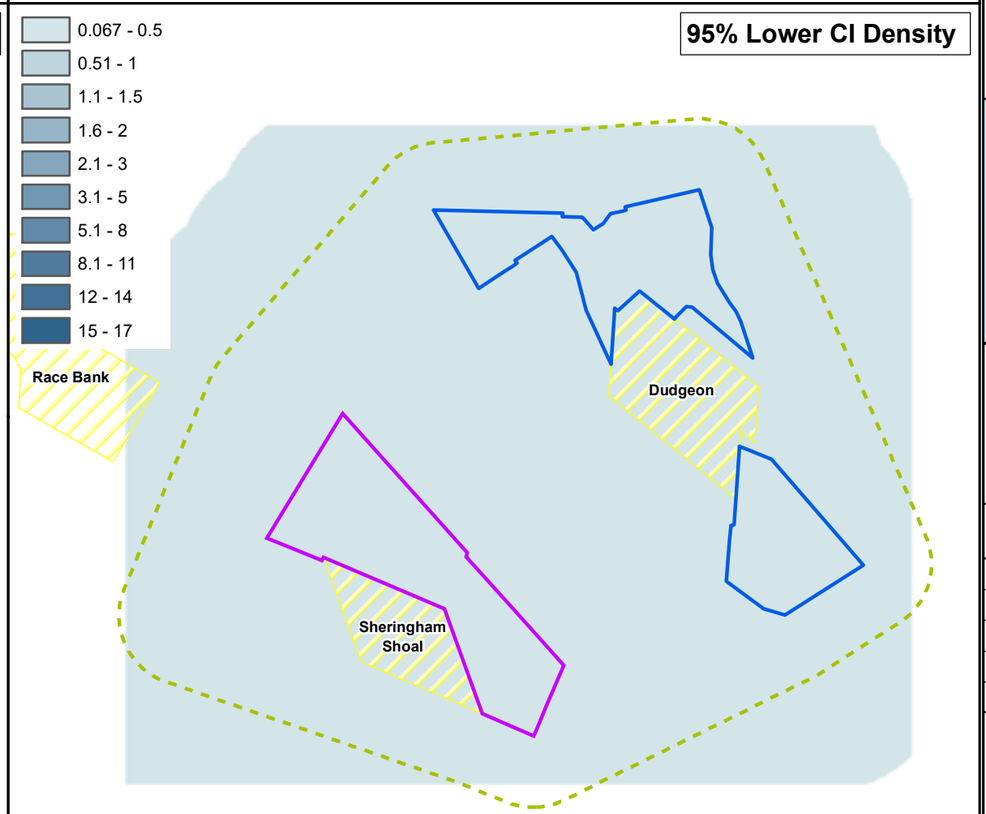

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.46a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - August 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0249

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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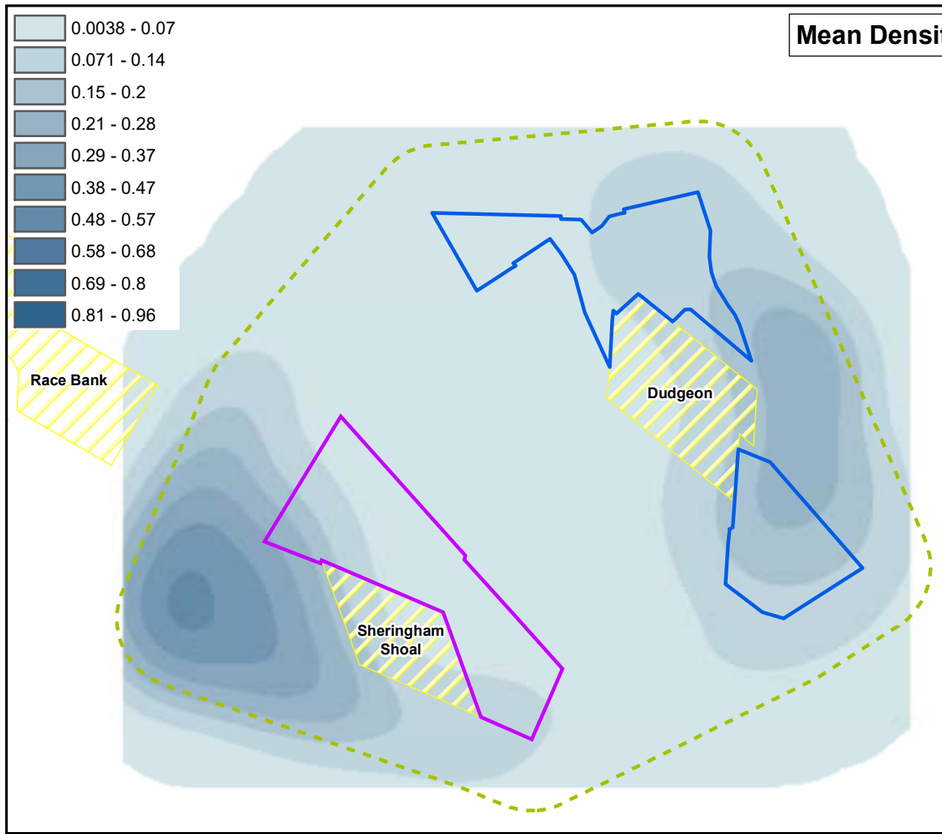

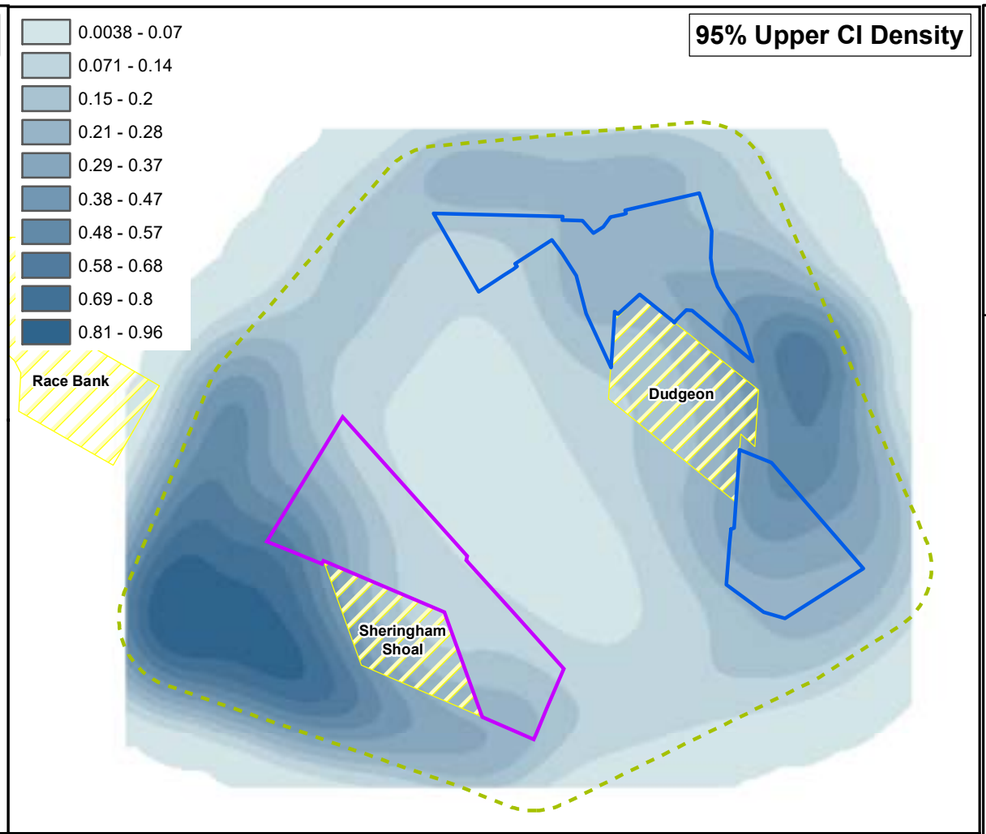

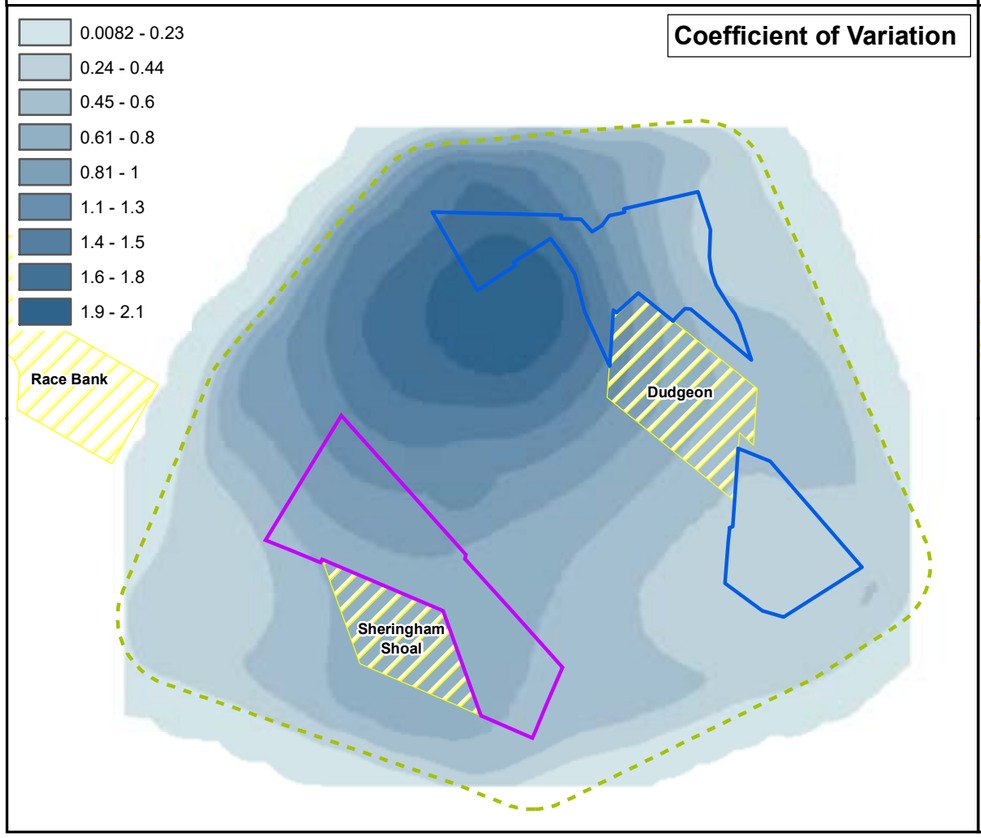

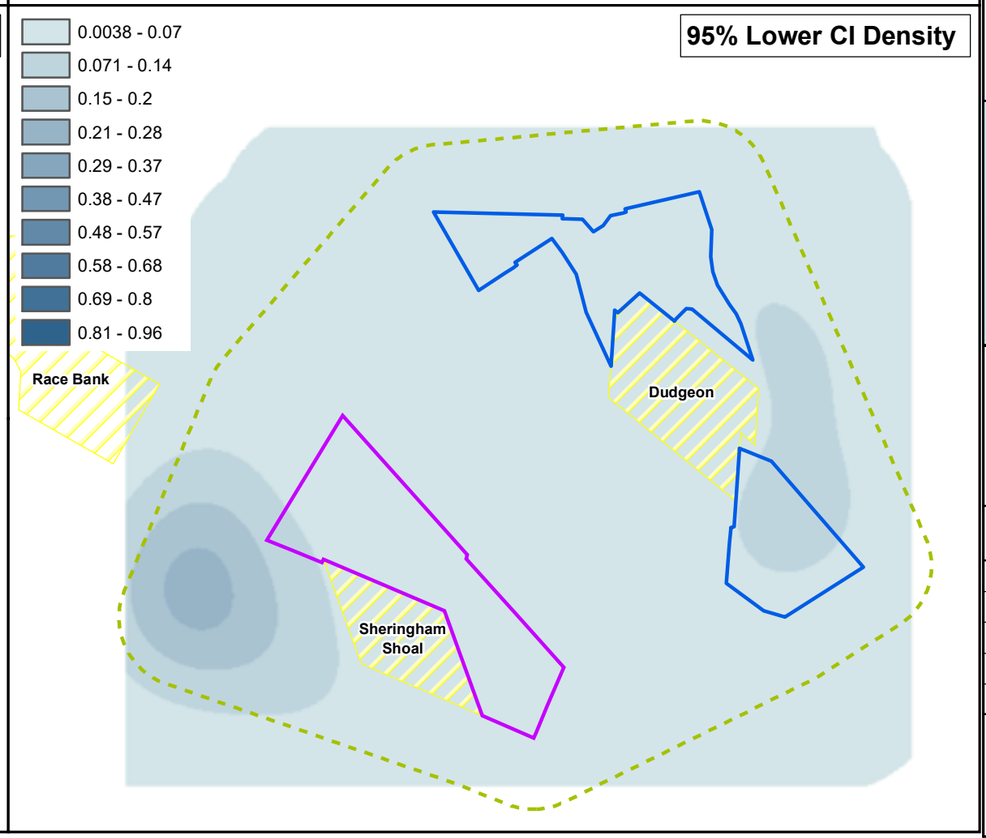

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.46b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - August 2019 survey two

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0263

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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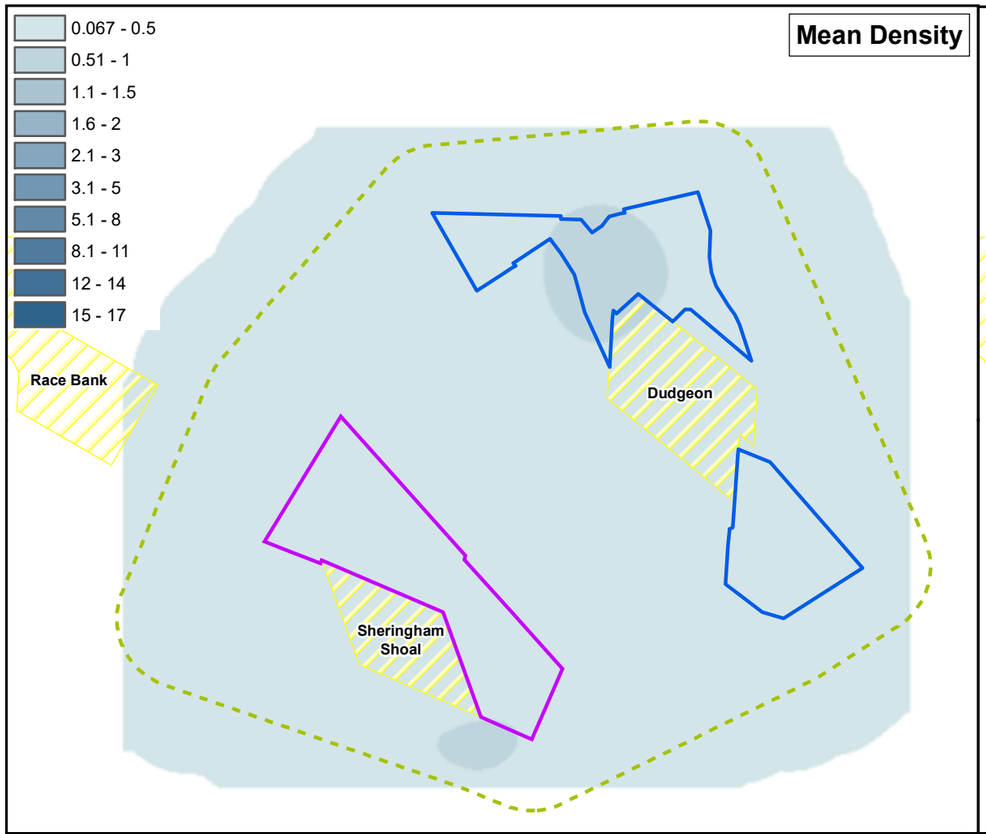

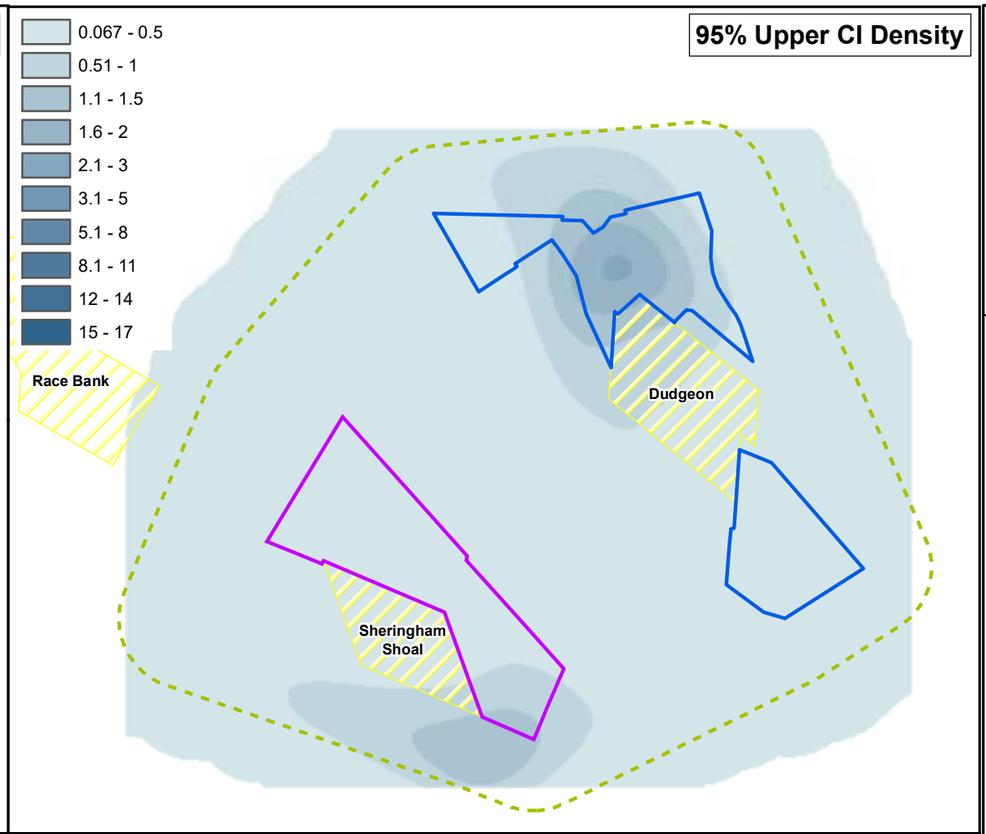

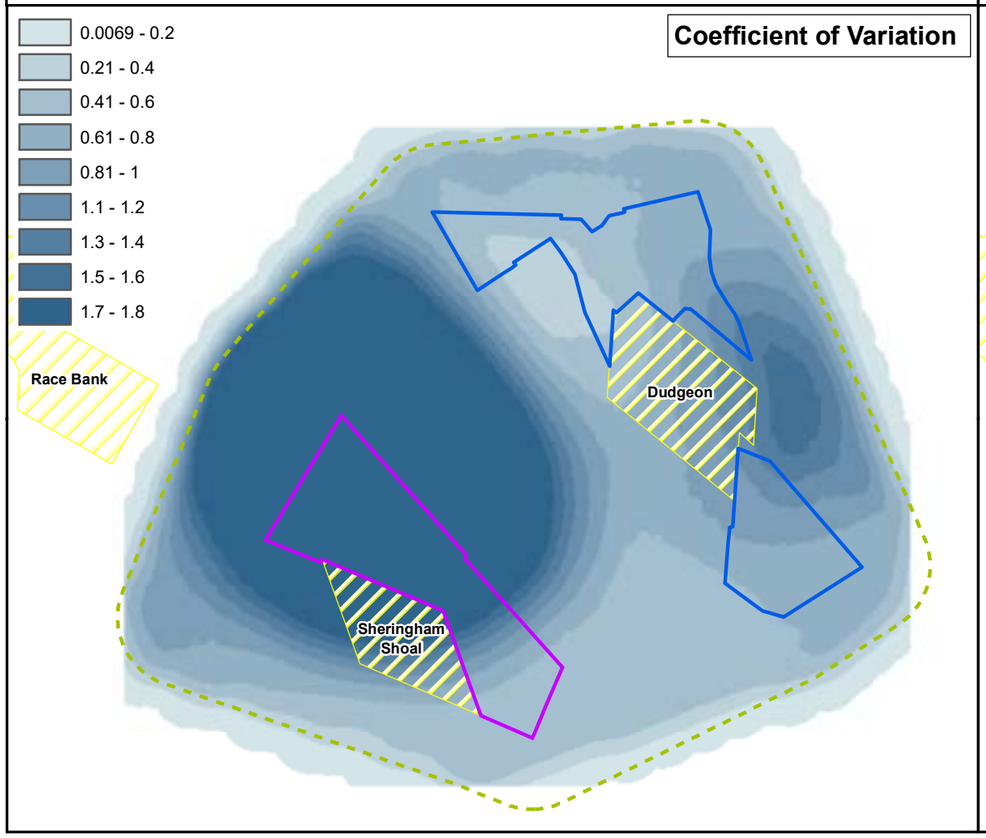

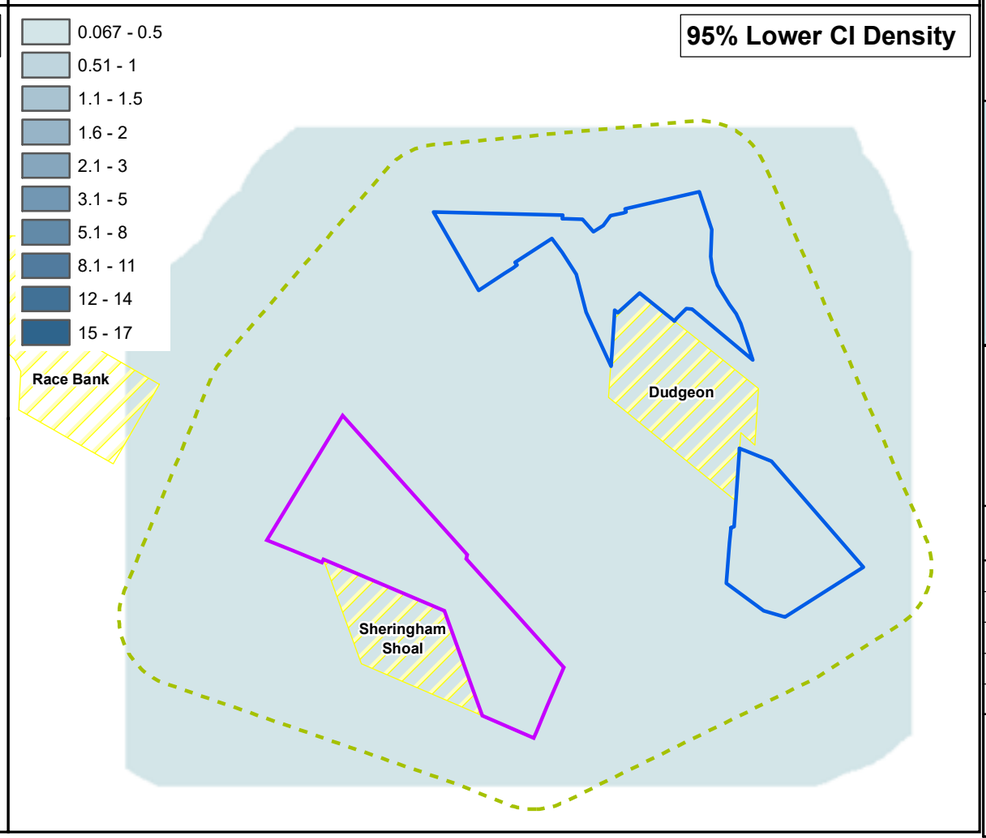

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.47a Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - September 2019

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0250

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A	13/06/2022	First Issue	GC	RI	AP

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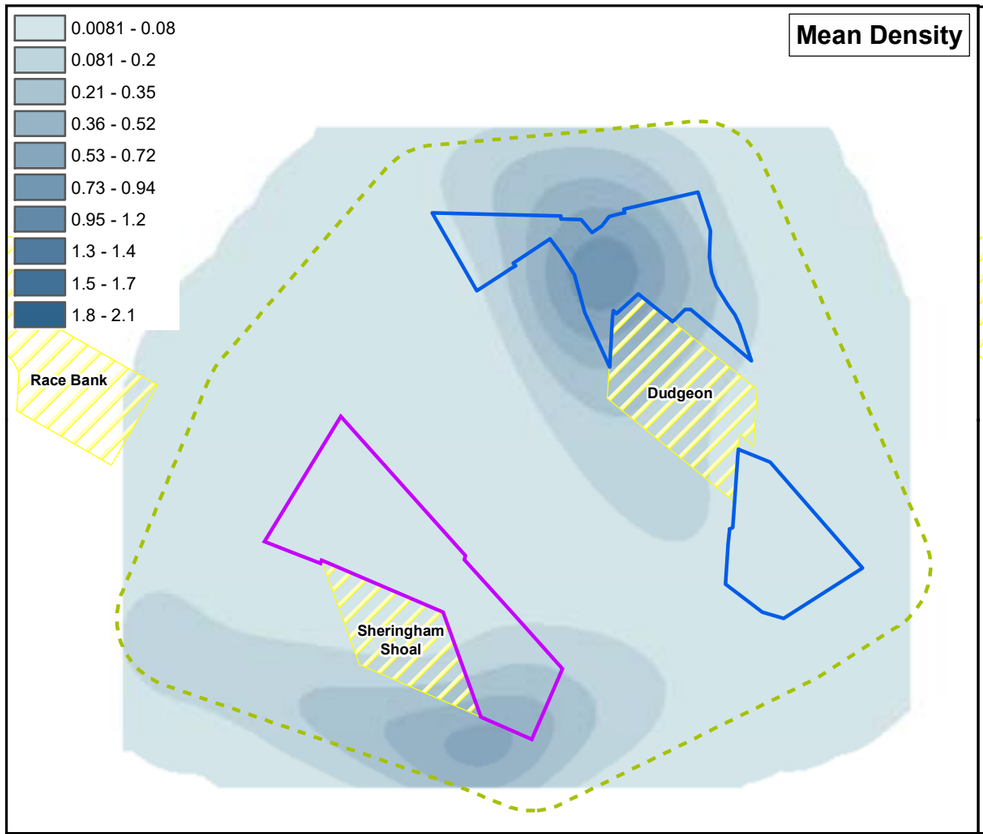

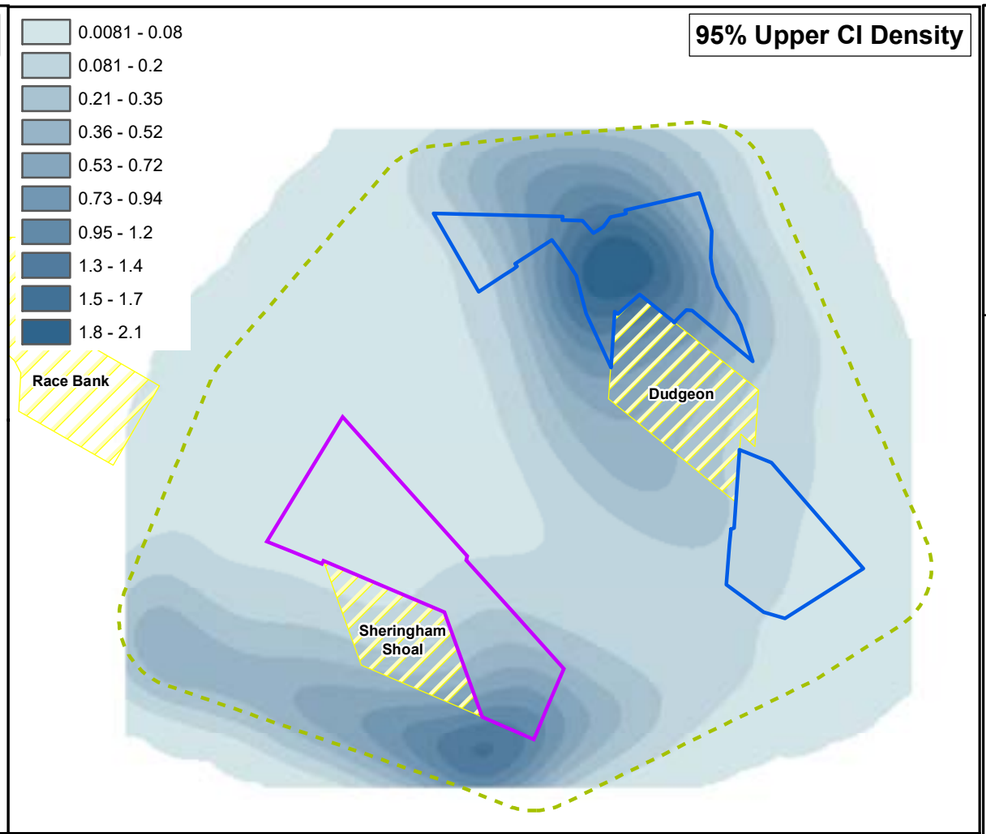

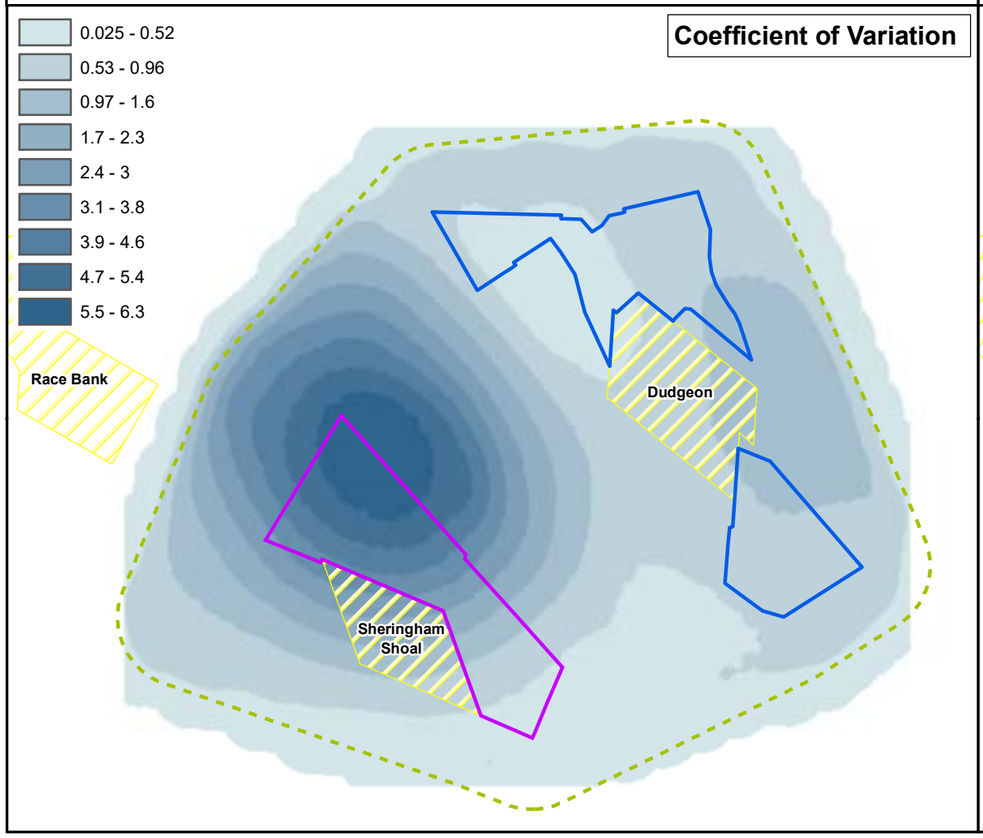

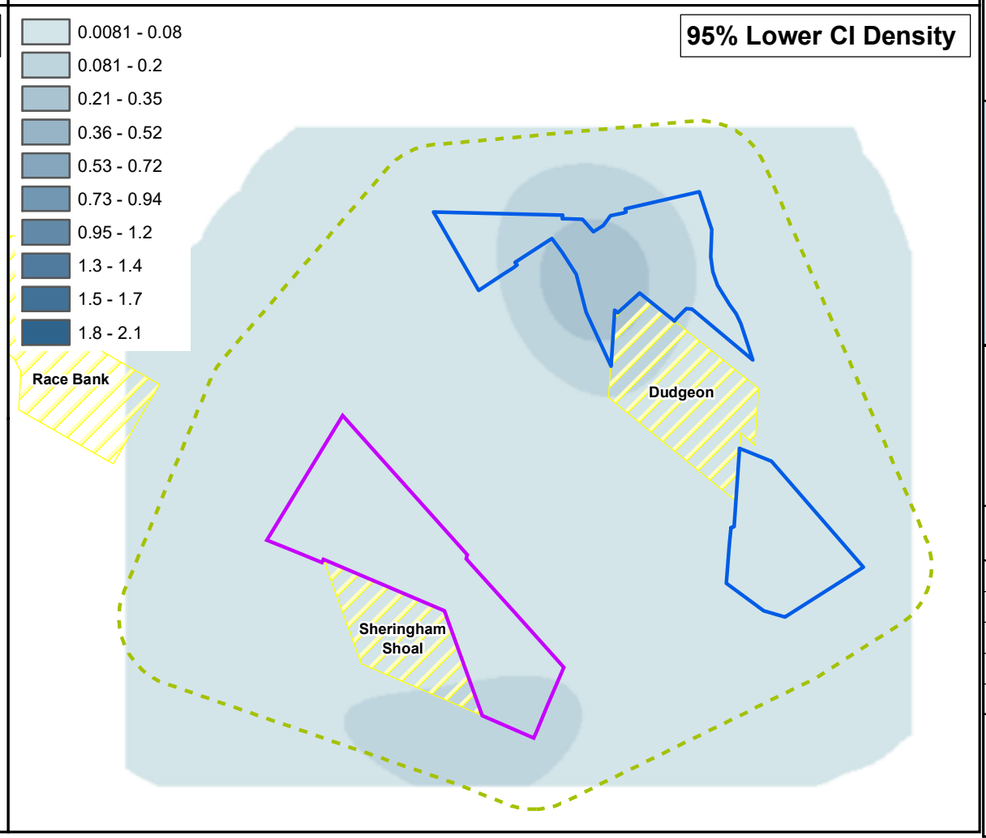

Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.47b Model-based Sandwich tern density estimation (mean, lower and upper 95% CIs, and coefficient of variation) - September 2019

Document:

Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Aerial Survey Study

Other Offshore Windfarms

- Active/In Operation

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 10 Miles

Scale: 1:350,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0264

REV	DATE	STATUS	DRW	CHK	APR
A	13/06/2022	First Issue	GC	RI	AP

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360000 370000 380000 390000 400000 410000

5920000 5910000 5900000 5890000 5880000 5870000

N

Triton Knoll

Race Bank

Dudgeon

Sheringham Shoal

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Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 11.48 Shag records from baseline surveys

Document:
Environmental Statement (ES)
Appendix 11.1 Offshore Ornithology Technical Report

Application Doc. no.: 6.3.11.1

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- Existing Offshore Wind Farm Cable
- Aerial Survey Study
- Bird Observation Point

Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2 4 6 8 10 12 km
0 2 4 6 8 Miles

Scale: 1:200,000 Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00072
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0236

REV	DATE	STATUS	DRW	CHK	APR
A	19/05/2022	First Issue	AZ	RI	PM

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