



**RWE Renewables UK Dogger Bank
South (West) Limited**

**RWE Renewables UK Dogger Bank
South (East) Limited**

Dogger Bank South Offshore Wind Farms

Environmental Statement

Volume 7

**Appendix 12-5a Seasonal Peak Abundance (All)
(Revision 2)**

**Appendix 12-5b Seasonal Peak Abundance (Sitting)
(Revision 2)**

**Appendix 12-5c Seasonal Peak Abundance (Flying)
(Revision 2)**

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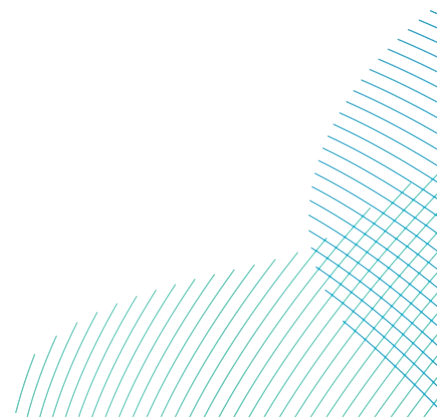
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02	Appendix 5a, 17 - 37	Appendix 5a, Section 1	Updates to the numbers presented in Table 32 to Table 69 to reflect Updated NE Guidance and Relevant Representations received post submission.
02	Appendix 5b, 17 - 37	Appendix 5b, Section 1	Updates to the numbers presented in Table 32 to Table 69 to reflect Updated NE Guidance and Relevant Representations received post submission.
02	Appendix 5c, 6 - 36	Appendix 5c, Section 1	Updates to the numbers presented in Table 9 to Table 69 to reflect Updated NE Guidance and Relevant Representations received post submission.





MacArthur
Green

Dogger Bank South Offshore Windfarm

Ornithology Technical Appendix 12-5a Seabird peak seasonal abundances: birds in flight and on the sea

Date: 22/11/2024

Tel: 0141 342 5404

Web: www.macarthurgreen.com

Address: 93 South Woodside Road | Glasgow | G20 6NT

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1 INTRODUCTION

This appendix provides tables of seabird peak abundance in each species-specific season, as defined in Furness (2015)¹ for each species recorded during baseline surveys for the DBS East and West Offshore Wind Farm projects (March 2021 – February 2023).

Abundances were estimated using design-based methods and are summarised as central estimate (i.e. extrapolated from the number seen in the surveyed area to the whole area) and 95% confidence range, derived from 1,000 nonparametric bootstrap samples.

This appendix (a) provides the combined peak abundance of each species-specific season on the sea and in flight.

Appendix (b) provides the peak abundance of each species-specific season on the sea.

Appendix (c) provides the peak abundance of each species-specific season in flight.

¹ Furness, R.W. 2015. Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Report Number 164. 389 pp.

Table 1. DBS - East. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	4.15 (7.11)	0-24.91	4.15 (7.17)	0-24.93	4.2 (6.75)	0-25.19
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.15 (7.11)	0-24.91	4.15 (7.17)	0-24.93	4.2 (6.75)	0-25.19

Table 2. DBS - East. Seasonal peak abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	37.47 (43.09)	0-124.89	54.29 (58.33)	0-158.68	83.41 (89.54)	0-241.88
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 3. DBS - East. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	20.84 (23.11)	0-83.26	20.9 (22.83)	0-83.52	25.05 (25.44)	0-83.41

Table 4. DBS - East. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.16 (7.05)	0-24.98	8.35 (12.03)	0-41.76	8.34 (11.81)	0-41.7
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 5. DBS - East. Seasonal peak abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.45 (18.24)	0-64.85	32.76 (28.72)	0-89.62	57.21 (51.56)	0-146.71
Breeding (full)	113.15 (94.75)	16.76-368.98	138.71 (92.74)	41.78-379.31	159.58 (104.6)	41.77-412.35
Autumn migration	96.14 (69.45)	8.3-226.05	234.05 (217.39)	8.31-643.94	380.3 (358.14)	8.31-969.83
Winter	50.65 (54.38)	0-151.96	76.23 (79.83)	0-211.74	113.99 (102.54)	0-279.33
Non-breeding	96.14 (69.45)	8.3-226.05	234.05 (217.39)	8.31-643.94	380.3 (358.14)	8.31-969.83

Table 6. DBS - East. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	70.76 (97.86)	0-324.85	75.09 (103.5)	0-358.75	83.02 (103.06)	0-348.5
Breeding (full)	597.8 (136.12)	337.84-864.5	754.92 (204.58)	406.2-1218.59	1223.81 (627.26)	575.49-2835.12
Autumn migration	479.96 (172.53)	257.4-862.55	776.13 (331.94)	382.22-1471.87	971.71 (322.49)	564.84-1680.69
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 7. DBS - East. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	92.19 (54.94)	16.76-234.67	105 (50.86)	33.42-236.01	176.07 (64.81)	58.91-319.78
Breeding (full)	42.23 (48.57)	0-152.03	59.24 (65.31)	0-186.17	93.09 (100.41)	0-287.74
Autumn migration	4.22 (7.31)	0-25.33	25.09 (38.79)	0-133.81	33.29 (18.19)	0-76.18
Winter	4.24 (7.23)	0-25.43	16.47 (15.97)	0-57.03	36.98 (28.76)	0-105.96
Non-breeding	92.19 (54.94)	16.76-234.67	105 (50.86)	33.42-236.01	176.07 (64.81)	58.91-319.78

Table 8. DBS - East. Seasonal peak abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	4.2 (7.37)	0-25.21	4.2 (7.5)	0-25.19
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	4.1 (7.02)	0-24.62	4.09 (7)	0-24.55	4.09 (6.83)	0-24.55
Non-breeding	4.1 (7.02)	0-24.62	4.09 (7)	0-24.55	4.09 (6.83)	0-24.55

Table 9. DBS - East. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1824.7 (1259.68)	423.62-3810.1	2633.22 (1066.17)	1301.41-4380.72	3782.48 (1736.38)	1811.4-6704.74
Breeding (full)	2779.62 (1056.74)	1064.21-4540.96	3722.55 (1449.38)	1565.55-6008.17	5036.6 (591.52)	3979.17-6298.7
Post-breeding	4028.38 (3482.8)	644.9-11140.58	5340.52 (4324.9)	915.91-13313.93	7496.93 (5795.58)	1561.47-17849.17
Winter	5237.85 (622.99)	4086.33-6590.04	7360.03 (664.06)	5996.1-8698.47	9624.5 (859.87)	7846.41-11097.22
Non-breeding	5237.85 (622.99)	4086.33-6590.04	7360.03 (664.06)	5996.1-8698.47	9624.5 (859.87)	7846.41-11097.22

Table 10. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2799.11 (995.69)	1456.81-4562.58	4071.04 (1648.33)	2012.03-6772.75	5656.15 (2596.5)	2708.68-10025.96
Breeding (full)	5221.19 (1984.95)	1998.99-8529.66	7024.49 (2734.99)	2954.21-11337.48	9225.67 (3457.35)	4126.99-14471.15
Post-breeding	4433.17 (3832.78)	709.7-12260.06	5855.71 (4742.12)	1004.26-14598.3	8384.33 (6481.59)	1746.3-19961.94
Winter	6701.46 (797.08)	5228.17-8431.48	9610.01 (867.06)	7829.12-11357.61	12642.57 (1129.51)	10306.9-14577.1
Non-breeding	6701.46 (797.08)	5228.17-8431.48	9610.01 (867.06)	7829.12-11357.61	12642.57 (1129.51)	10306.9-14577.1

Table 11. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3663.9 (1303.3)	1906.89-5972.19	5326.25 (2156.55)	2632.39-8860.96	7402.61 (3398.23)	3545.04-13121.69
Breeding (full)	6698.09 (2546.43)	2564.43-10942.41	9030.5 (3516.03)	3797.86-14575.18	11880 (4452.07)	5314.37-18634.66
Post-breeding	5812.28 (5025.11)	930.48-16074.02	7678.05 (6217.9)	1316.79-19141.4	10989.81 (8495.78)	2288.97-26165.24
Winter	8760.2 (1041.95)	6834.3-11021.7	12551.79 (1132.48)	10225.74-14834.37	16512.02 (1475.21)	13461.48-19038.64
Non-breeding	8760.2 (1041.95)	6834.3-11021.7	12551.79 (1132.48)	10225.74-14834.37	16512.02 (1475.21)	13461.48-19038.64

Table 12. DBS - East. Seasonal peak abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8.38 (13.85)	0-50.29	8.43 (14.31)	0-50.57	8.42 (14.66)	0-50.49
Breeding (full)	12.59 (15.84)	0-50.36	16.81 (20.02)	0-58.82	16.79 (20.89)	0-67.17
Autumn migration	4.22 (7.2)	0-25.33	8.33 (8.02)	0-25.41	16.79 (16.66)	0-59.25
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.38 (13.85)	0-50.29	8.43 (14.31)	0-50.57	16.79 (16.66)	0-59.25

Table 13. DBS - East. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	947.07 (415.83)	469.34-1961.18	1348.23 (473.46)	777.11-2537.14	2006.15 (785.1)	1094.26-3677.46
Breeding (full)	5752.29 (2377.01)	2144.46-9946.21	7590.21 (2567.25)	3545.77-12058.78	9656.32 (2487.94)	5661.35-14198.31
Autumn migration	1669.31 (1177.87)	388.35-3717.29	2451.07 (1842.96)	575.93-5818.11	4212.81 (4287.47)	84.54-11516.77
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	1669.31 (1177.87)	388.35-3717.29	2451.07 (1842.96)	575.93-5818.11	4212.81 (4287.47)	84.54-11516.77

Table 14. DBS - East. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.23)	0-25.18	4.2 (7.08)	0-25.21	4.2 (7.26)	0-25.19
Breeding (full)	8.33 (14.4)	0-49.96	8.43 (8.31)	0-25.32	12.66 (10.96)	0-42.06
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.15 (6.98)	0-24.92
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.23)	0-25.18	4.2 (7.08)	0-25.21	4.2 (7.26)	0-25.19

Table 15. DBS - East. Seasonal peak abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	100.76 (157.03)	0-579.38	125.81 (171.12)	0-528.38

Table 16. DBS - East. Seasonal peak abundance of Manx shearwater recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.19 (7.09)	0-25.14	4.21 (7.5)	0-25.28	4.24 (7.08)	0-25.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.16 (7.05)	0-24.98	4.18 (7.25)	0-25.06	4.17 (6.75)	0-25.02

Table 17. DBS - East. Seasonal peak abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.98 (25.04)	0-75.54	29.41 (32.24)	0-92.43	50.38 (55.55)	0-159.53
Breeding (full)	41.67 (42.88)	0-108.34	54.3 (57.58)	0-150.36	71.11 (77.27)	0-209.15
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	95.52 (95.81)	0-282.31	133 (123.35)	0-348.98	186.98 (170.46)	8.36-473.47
Non-breeding	95.52 (95.81)	0-282.31	133 (123.35)	0-348.98	186.98 (170.46)	8.36-473.47

Table 18. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.98 (25.04)	0-75.54	29.41 (32.24)	0-92.43	50.38 (55.55)	0-159.53
Breeding (full)	41.67 (42.88)	0-108.34	54.3 (57.58)	0-150.36	71.11 (77.27)	0-209.15
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	103.83 (104.14)	0-306.85	153.77 (142.61)	0-403.49	216.05 (196.97)	9.66-547.08
Non-breeding	103.83 (104.14)	0-306.85	153.77 (142.61)	0-403.49	216.05 (196.97)	9.66-547.08

Table 19. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	25.18 (30.04)	0-90.65	33.61 (36.84)	0-105.64	58.77 (64.8)	0-186.12
Breeding (full)	50 (51.46)	0-130.01	62.65 (66.44)	0-173.49	83.66 (90.91)	0-246.06
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	120.43 (120.8)	0-355.93	178.7 (165.73)	0-468.89	249.27 (227.26)	11.15-631.22
Non-breeding	120.43 (120.8)	0-355.93	178.7 (165.73)	0-468.89	249.27 (227.26)	11.15-631.22

Table 20. DBS - East. Seasonal peak abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1092.58 (678.53)	194.26- 2283.38	1657.83 (1040.52)	253.87- 3268.78	2199.09 (1370.13)	406.23- 4148.03
Breeding (full)	199.62 (72.84)	83.13-366.13	313.01 (119.56)	125.15- 567.74	608.42 (337.72)	233.16- 1375.7
Autumn migration	2693.5 (3034.08)	0-8908.8	3654.07 (3993.96)	42.01- 11384.68	4299.87 (4566.54)	41.98- 12552.66
Winter	1587.39 (256.62)	1080.63- 2059.58	2172.48 (308.3)	1660.04- 2782.12	2786.25 (412.94)	2099.24- 3592.03
Non-breeding	2693.5 (3034.08)	0-8908.8	3654.07 (3993.96)	42.01- 11384.68	4299.87 (4566.54)	41.98- 12552.66

Table 21. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1975.82 (1227.05)	351.3- 4129.29	2976.45 (1868.14)	455.8- 5868.71	3967.83 (2472.13)	732.96- 7484.32
Breeding (full)	286.98 (104.71)	119.51- 526.35	463.27 (176.96)	185.22- 840.29	900.19 (499.68)	344.97- 2035.42
Autumn migration	2880.86 (3245.13)	0-9528.5	3871.29 (4231.38)	44.51- 12061.46	4566.88 (4850.1)	44.58- 13332.14
Winter	2010.53 (325.03)	1368.69- 2608.59	2789.69 (395.89)	2131.66- 3572.53	3578.96 (530.43)	2696.5- 4613.99
Non-breeding	2880.86 (3245.13)	0-9528.5	3871.29 (4231.38)	44.51- 12061.46	4566.88 (4850.1)	44.58- 13332.14

Table 22. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2379.41 (1477.69)	423.06- 4972.75	3578.51 (2246.02)	548-7055.81	4779.98 (2978.13)	882.98- 9016.24
Breeding (full)	341.06 (124.44)	142.03- 625.52	555.09 (212.03)	221.94- 1006.84	1079.4 (599.16)	413.65- 2440.64
Autumn migration	3488.69 (3929.8)	0-11538.87	4685.63 (5121.48)	53.87- 14598.65	5530.3 (5873.28)	53.99- 16144.67
Winter	2430.95 (392.99)	1654.89- 3154.07	3376.75 (479.2)	2580.25- 4324.33	4332.31 (642.08)	3264.09- 5585.2
Non-breeding	3488.69 (3929.8)	0-11538.87	4685.63 (5121.48)	53.87- 14598.65	5530.3 (5873.28)	53.99- 16144.67

Table 23. DBS - West. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	4.25 (7.43)	0-25.52	4.25 (7.37)	0-25.51	4.26 (7.32)	0-25.56
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.25 (7.43)	0-25.52	4.25 (7.37)	0-25.51	4.26 (7.32)	0-25.56

Table 24. DBS - West. Seasonal peak abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	21.27 (29.83)	0-93.58	34.01 (37.1)	0-102.04	59.64 (65.89)	0-187.45
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 25. DBS - West. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	55.3 (66.55)	0-204.18	68.03 (72.08)	0-195.58	80.94 (85.69)	0-230.05

Table 26. DBS - West. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.37 (8.68)	0-25.25	8.49 (8.29)	0-25.6	8.45 (8.41)	0-25.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 27. DBS - West. Seasonal peak abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8.55 (11.39)	0-34.2	21.44 (13.5)	0-51.04	77.69 (80.99)	0-250.72
Breeding (full)	188.1 (160.69)	16.48-485.76	288.49 (230.96)	33.06-661.59	377.58 (302.07)	49.77-815.07
Autumn migration	54.95 (31.59)	8.44-126.91	88.61 (61.92)	8.43-202.57	105.66 (74.53)	8.45-219.77
Winter	37.99 (27.74)	0-98.56	91.75 (80.24)	8.55-266.34	154.66 (130.53)	17.01-383.45
Non-breeding	54.95 (31.59)	8.44-126.91	91.75 (80.24)	8.55-266.34	154.66 (130.53)	17.01-383.45

Table 28. DBS - West. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	64.13 (67.6)	0-179.56	86.2 (91.44)	0-241.37	138.33 (149.69)	0-414.98
Breeding (full)	570.42 (170.68)	275.94-907.75	805.34 (253.39)	428.69-1315.57	989.93 (361.13)	515.23-1666.16
Autumn migration	617.24 (374.38)	177.18-1209.83	797.5 (491.64)	202.4-1544.63	946.7 (575.33)	270.5-1792.15
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. DBS - West. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.61 (11.39)	0-41.21	50.08 (43.77)	0-167.49	62.7 (42.34)	8.4-176.46
Breeding (full)	8.51 (13.9)	0-51.05	17.09 (30)	0-102.56	17.15 (30.1)	0-102.88
Autumn migration	16.96 (23.73)	0-76.34	55.14 (75.33)	0-237.55	55.25 (74.79)	0-246.48
Winter	29.9 (27.48)	0-102.44	34.2 (28.95)	0-110.59	55.9 (35.83)	0-129.68
Non-breeding	29.9 (27.48)	0-102.44	55.14 (75.33)	0-237.55	62.7 (42.34)	8.4-176.46

Table 30. DBS - West. Seasonal peak abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.25 (7.09)	0-25.51
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.25 (7.09)	0-25.51

Table 31. DBS - West. Seasonal peak abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	8.52 (14.42)	0-51.12
Autumn migration	4.26 (7.32)	0-25.53	8.51 (8.29)	0-25.6	8.53 (8.59)	0-25.66
Winter	4.93 (8.57)	0-29.57	4.93 (8.26)	0-29.59	14.08 (13.06)	0-49.16
Non-breeding	4.93 (8.57)	0-29.57	8.51 (8.29)	0-25.6	14.08 (13.06)	0-49.16

Table 32. DBS - West. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4334.53 (3476.58)	733.19- 9481.16	5915.55 (4550.86)	1041.33- 12226.82	7959.84 (5837.69)	1766.67- 15629.46
Breeding (full)	3192.78 (582.15)	1988.94- 4486.41	4704.51 (781.67)	3203.03- 6583.28	6218.12 (924.86)	4042.15- 7917.47
Post-breeding	6955.28 (6256.32)	763.18- 17449.93	8867.1 (7819.12)	1244.22- 22134.57	12096.46 (10558.3)	1839.23- 31411.14
Winter	2656.73 (360.13)	1971.13- 3360.78	3808.66 (437.28)	2976.7- 4679.56	5286.96 (506.2)	4277.83- 6268.04
Non-breeding	6955.28 (6256.32) <u>4334.53</u> <u>(3476.58)</u>	763.18- 17449.93 <u>733</u> <u>19-9481.16</u>	8867.1 (7819.12) <u>5915.55</u> <u>(4550.86)</u>	1244.22- 22134.57 <u>104</u> <u>1.33-</u> <u>12226.82</u>	12096.46 (10558.3) <u>7959.8</u> <u>4 (5837.69)</u>	1839.23- 31411.14 <u>1766</u> <u>.67-</u> <u>15629.46</u>

Table 33. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Areas Area		Array Areas Area & 2km buffer		Array Areas Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	5461.15 (4380.2)	923.76-11945.48	7577.22 (5829.18)	1333.83-15661.31	10269.7 (7531.72)	2279.34-20164.97
Breeding (full)	4727.69 (1197.98)	2935.02-6968.23	6763.88 (1404.21)	4509.41-9448.28	8742.84 (1320.28)	6329.1-11363.83
Post-breeding	7284.85 (6552.78)	799.34-18276.78	9533.89 (8407.11)	1337.79-23799.06	13026.07 (11369.71)	1980.57-33825.07
Winter	3372.23 (457.12)	2501.99-4265.9	4880.77 (560.37)	3814.62-5996.83	6895.35 (660.2)	5579.23-8174.9
Non-breeding	7284.85 (6552.78) 5461.15 (4380.2)	799.34 18276.78 923.76-11945.48	9533.89 (8407.11) 7577.22 (5829.18)	1337.79 23799.06 1333.83-15661.31	13026.07 (11369.71) 10269.7 (7531.72)	1980.57 33825.07 2279.34-20164.97

Table 34. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Areas Area		Array Areas Area & 2km buffer		Array Areas Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	7127.07 (5716.38)	1205.56-15589.44	9895.47 (7612.62)	1741.92-20452.88	13399.52 (9827.11)	2974-26310.5
Breeding (full)	6142.93 (1556.6)	3813.62-9054.17	8783.49 (1823.49)	5855.87-12269.43	11349.44 (1713.91)	8216.07-14751.85
Post-breeding	9547.59 (8588.12)	1047.62-23953.7	12498.37 (11021.23)	1753.76-31199.17	17079.17 (14907.42)	2596.83-44349.82
Winter	4367.91 (592.08)	3240.73-5525.44	6317.13 (725.28)	4937.22-7761.64	8944.66 (856.41)	7237.39-10604.49
Non-breeding	9547.59 (8588.12) 7127.07 (5716.38)	1047.62 23953.7 1205.56-15589.44	12498.37 (11021.23) 9895.47 (7612.62)	1753.76 31199.17 1741.92-20452.88	17079.17 (14907.42) 13399.52 (9827.11)	2596.83 44349.82 2974-26310.5

Table 35. DBS - West. Seasonal peak abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.55)	0-25.22	4.24 (7.39)	0-25.45	8.36 (7.98)	0-25.3
Breeding (full)	8.51 (12.01)	0-42.54	8.5 (11.77)	0-34.01	17.04 (22.59)	0-68.16
Autumn migration	8.43 (11.67)	0-33.7	8.55 (12.14)	0-34.22	23.25 (18.69)	0-68.82
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.43 (11.67)	0-33.7	8.55 (12.14)	0-34.22	23.25 (18.69)	0-68.82

Table 36. DBS - West. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1299.06 (1047.58)	271.65- 3501.05	1637.83 (1217.02)	388.51- 4095.15	2011.57 (1375.94)	605.27- 4655.16
Breeding (full)	4253.42 (5464.46)	0-17216.18	5522.44 (6700.37)	8.3- 20691.75	6521.4 (7300.12)	33.29- 22294.85
Autumn migration	3477.95 (5100.72)	68.09- 17855.75	4467.43 (5829.55)	102.41- 19360.16	4752.42 (5996.18)	256.58- 19472.23
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3477.95 (5100.72)	68.09- 17855.75	4467.43 (5829.55)	102.41- 19360.16	4752.42 (5996.18)	256.58- 19472.23

Table 37. DBS - West. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.2 (7.62)	0-25.22	12.64 (21.66)	0-75.84	12.66 (21.94)	0-75.99
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 38. DBS - West. Seasonal peak abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.24 (7.32)	0-25.45	21.31 (27.71)	0-102.41	21.35 (27.31)	0-102.63

Table 39. DBS - West. Seasonal peak abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	29.97 (33.1)	0-94.18	34.65 (37.38)	0-103.94	43.17 (45.4)	0-120.86
Breeding (full)	71.07 (73.18)	0-175.6	92.46 (94.05)	0-218.55	122.47 (125.15)	0-295.62
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	84.4 (66.34)	8.46-219.36	160.27 (86.57)	25.32-320.46	228.23 (118.07)	50.72-448.02
Non-breeding	84.4 (66.34)	8.46-219.36	160.27 (86.57)	25.32-320.46	228.23 (118.07)	50.72-448.02

Table 40. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	29.97 (33.1)	0-94.18	34.65 (37.38)	0-103.94	43.17 (45.4)	0-120.86
Breeding (full)	71.07 (73.18)	0-175.6	92.46 (94.05)	0-218.55	122.47 (125.15)	0-295.62
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	88.62 (69.66)	8.88-230.32	168.7 (91.12)	26.65-337.32	240.91 (124.63)	53.53-472.91
Non-breeding	88.62 (69.66)	8.88-230.32	168.7 (91.12)	26.65-337.32	240.91 (124.63)	53.53-472.91

Table 41. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	34.25 (37.83)	0-107.64	38.98 (42.06)	0-116.94	51.8 (54.48)	0-145.03
Breeding (full)	83.62 (86.1)	0-206.58	109.27 (111.15)	0-258.28	143.59 (146.73)	0-346.59
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	101.28 (79.6)	10.15-263.21	198.22 (107.07)	31.32-396.35	278.95 (144.3)	61.99-547.58
Non-breeding	101.28 (79.6)	10.15-263.21	198.22 (107.07)	31.32-396.35	278.95 (144.3)	61.99-547.58

Table 42. DBS - West. Seasonal peak abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1951.14 (1627.53)	210.21- 4542.48	2719.29 (2047.87)	390.24- 5824.03	3723.23 (2711.97)	666.24- 7719.03
Breeding (full)	921.35 (399.5)	310.99- 1739.24	1217.68 (552.71)	385.45- 2194.08	1421.52 (623.42)	445.94- 2542.36
Autumn migration	2531.96 (3621.13)	8.51- 12519.91	3075.54 (3972.31)	25.6- 12948.34	3463.74 (4657.75)	51.32- 15188.6
Winter	2171.47 (1773.78)	256.09- 5045.1	3258.75 (2713.54)	374.29- 7387.83	4149.61 (3604.49)	366.67- 9596.73
Non-breeding	2531.96 (3621.13)	8.51- 12519.91	3258.75 (2713.54)	374.29- 7387.83	4149.61 (3604.49)	366.67- 9596.73

Table 43. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2536.55 (2115.85)	273.28- 5905.38	3681.65 (2772.61)	528.34- 7885.16	5002.64 (3643.88)	895.18- 10371.51
Breeding (full)	1406.6 (609.91)	474.78- 2655.24	1894.16 (859.76)	599.59-3413	2236.34 (980.76)	701.55- 3999.63
Autumn migration	3049.38 (4361.12)	10.25- 15078.42	4042.74 (5221.52)	33.65- 17020.35	4517.73 (6075.06)	66.93- 19810.37
Winter	2752.47 (2248.37)	324.61- 6394.98	4188.89 (3488.06)	481.12- 9496.5	5266.97 (4575.05)	465.41- 12180.81
Non-breeding	3049.38 (4361.12)	10.25- 15078.42	4188.89 (3488.06)	481.12- 9496.5	5266.97 (4575.05)	465.41- 12180.81

Table 44. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3068.6 (2559.66)	330.6- 7144.05	4454.6 (3354.71)	639.26- 9540.61	6055.64 (4410.88)	1083.6- 12554.61
Breeding (full)	1687.02 (731.5)	569.43- 3184.59	2280.58 (1035.16)	721.92- 4109.28	2687.88 (1178.79)	843.2- 4807.19
Autumn migration	3689.79 (5277.01)	12.4- 18245.08	4886.92 (6311.85)	40.68- 20574.46	5461.23 (7343.8)	80.91- 23947.63
Winter	3329.46 (2719.69)	392.66- 7735.54	5066.23 (4218.61)	581.89- 11485.49	6375.55 (5538)	563.36- 14744.61
Non-breeding	3689.79 (5277.01)	12.4- 18245.08	5066.23 (4218.61)	581.89- 11485.49	6375.55 (5538)	563.36- 14744.61

Table 45. DBS - West. Seasonal peak abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.21 (7.1)	0-25.23
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 46. DBS - East & West. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	8.4-25 (7.35) (14.54)	0- 25-2550.43	8.4-21 (7.3) (14.54)	0- 25-2850.44	8.39 (7.9846) (14.07)	0- 25-2950.75
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.4-25 (7.35) (14.54)	0- 25-2550.43	8.4-21 (7.3) (14.54)	0- 25-2850.44	8.39 (7.9846) (14.07)	0- 25-2950.75

Table 47. DBS - East & West. Seasonal peak abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	58.74 (65.672.92)	0- 193.59218.4 7	88.49 (92.423 (95.43)	0- 235.97260.7 2	143.32 (149.9505 (155.43)	0- 379.37429.3 3
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 48. DBS - East & West. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	76.14 (79.4889.66)	0- 244.09287.4 4	88.45 (85.2993 (94.91)	0-244.4279.1	105.34 (102.5899 (111.13)	0- 286.63313.4 6

Table 49. DBS - East & West. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.37 (8.69) 12.53 (15.73)	0-25.49 50.23	8.44 (8.23) 16.84 (20.32)	0- 25.33 67.36	8.43 (11.94) 16.79 (20.22)	0-42.45 67.16
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 50. DBS - East & West. Seasonal peak abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	29 (26.24) 29.63	0- 83.28 99.05	54.64 (35.43) 2 (42.22)	0- 125.69 140.6 6	134.44 (122.63) 9 (132.55)	0- 369.29 397.4 3
Breeding (full)	275.66 (208.96) 301.25 (255.44)	49.67 642.93 33.24 -854.74	401.03 (291.6) 427.2 (323.7)	66.64 860.97 74.8 4-1040.9	513.45 (372.17) 537.16 (406.67)	100.07 1035.66 91.5 4-1227.42
Autumn migration	151.09 (92.14) 101.04	33.27 311.41 6.74- 352.96	323.35 (270.68) 322.66 (279.31)	33.28- 798.18 16.74- 846.51	487.48 (429.55) 485.96 (432.67)	33.52- 1160.13 16.76 -1189.6
Winter	88.65 (78.89) 64 (82.12)	0- 228.73 250.5 2	167.59 (151.44) 98 (160.07)	8.37- 437.77 55- 478.08	266.27 (224) 268.65 (233.07)	25.03- 619.04 17.01- 662.78
Non-breeding	151.09 (92.14) 101.04	33.27 311.41 6.74- 352.96	323.35 (270.68) 325.8 (297.63)	3316.86- 910.28- 798.18	487.48 (429.55) 534.96 (488.67)	33.52- 1160.13 25.32 -1353.28

Table 51. DBS - East & West. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	108.9 (107.8)134.89 (165.46)	0- 300.03504. 41	134.13 (134.27)161.29 (194.94)	0- 368.68600.1 2	214.07 (216.68)221.35 (252.75)	0- 587.541763.4 8
Breeding (full)	928.04 (276.1)1168.22 (306.8)	517.17 1446.15613.7 8-1772.25	1334.55 (415.22)1560.26 (457.97)	762.35 2073.83834. 89-2534.16	1755.06 (692.1)2213.74 (988.39)	914.74 2854.411090 .72-4501.28
Autumn migration	1097.2 (511.33546.91)	485.47 1918.92434. 58-2072.38	1573.85 (786.8663 (823.58)	652.95 2823.05584. 62-3016.5	1919.18 (851.76)1918.41 (897.82)	921.79 3253.83835. 34-3472.84
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 52. DBS - East & West. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	108.62(64.78 (66.33)	25.18 265.5316.76- 275.88	142.44 (53.33)155.08 (94.63)	58.4 275.33.42- 403.5	230.3 (73.28)238.77 (107.15)	100.22 386.467.31- 496.24
Breeding (full)	42.23 (48.0350.74 (62.47)	0- 150.35203.0 8	58.98 (65.0276.33 (95.31)	0- 185.35288.7 3	109.43 (117.21)110.24 (130.51)	0- 319.89390.6 2
Autumn migration	16.96 (24.3921.18 (31.04)	0- 78.44101.67	61.03 (80.8223 (114.12)	0- 252.85371.3 6	60.9 (79.988.54 (92.98)	0- 264322.66
Winter	34.14 (29.0734.71)	0- 110.58127.87	50.63 (31.3267 (44.92)	0- 118.97167.62	92.67 (51.4488 (64.59)	8.49 201.430- 235.64
Non-breeding	108.62 (64.7)122.09 (82.42)	25.18 265.5316.76- 337.11	142.44 (53.33)160.14 (126.19)	58.4 275.33.42- 473.56	230.3 (73.28)238.77 (107.15)	100.22 386.467.31- 496.24

Table 53. DBS - East & West. Seasonal peak abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.17 (6.9625 7.09)	0-25.0351
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.17 (6.9625 7.09)	0-25.0351

Table 54. DBS - East & West. Seasonal peak abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	4.172 (7.3237)	0-25.0521	12.61 (13.7472 21.92)	0-50.5876.31
Autumn migration	4.26 (7.2532)	0-25.2953	8.5951 (8.3829)	0-26.1625.6	8.5853 (8.6459)	0-26.125.66
Winter	9.03 (8.6315.59)	0-27.4554.19	8.74 (8.519.02 15.26)	0-27.3654.14	18.17.45 (12.45 19.89)	0-45.5273.71
Non-breeding	9.03 (8.6315.59)	0-27.4554.19	8.74 (8.512.6 15.29)	0-27.3650.15	18.17.45 (12.45 19.89)	0-45.5273.71

Table 55. DBS - East & West. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	6091.29 (4036.59)10790. .97 (7019.68)	1795.44 11890.0 13112 .45-21561.63	8541.68 (5552.14)15221.7 2 (9769.17)	2557.13 16024.0 437 4.31- 29313.84	11716.97 (7474.71)20802. 13 (13225.34)	3794.47 21385.4 6519 .04- 39432.19
Breeding (full)	5464 (698.57)12841.0 2 (4103.03)	4150.64 7024.7 6378 .05- 19996.58	8020.87 (881.79)17813.9 9 (5339.52)	6253.49 10012.8 965 3.73- 26844.61	11252.55 (1084.78)23229. 44 (6165.98)	8841.3 13309.9 8135 30.44- 33386.51
Autumn migration Post-breeding	10983.65 (9318.67)15359. 87 (13613.23)	1550.38 26110.0 9197 8.1-40027.72	14179.01 (11731.65)20176. 42 (17239.13)	2304.03 32683.3 930 70.55- 50340.57	19547.28 (15797.85)2806 8.98 (23403.2)	3711.02 45483.9 748 85.8- 70515.06
Winter	7894.58 (713.8)13128.11 (1634.03)	6668.8 9521.8 41007 5.03- 16547.14	11354.22 (792.62)18868. 92 (1857.76)	9755.18 12951.1 31516 2.96- 22596.01	15133.5 (1185.56)25456. 68 (2331.62)	12737.77 17160.2 0698. 87-29643.13
Non-breeding	10983.65 (9318.67)15887. 27 (6758.33)	1550.38 26110.0 9803 9.86- 26611.14	14179.01 (11731.65)22447. 26 (8745.1)	2304.03 32683.3 9119 67.66- 35287.25	19547.28 (15797.85)29911 .54 (11302.32)	3711.02 45483.9 716 435.48- 45349.14

Table 56. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8260.26 (5473.93)10790. 97 (7019.68)	2434.75 16123.7 73112 .45-21561.63	11644.96 (7569.3)15221.7 2 (9769.17)	3486.16 21845.7 437 4.31- 29313.84	15897.3 (10141.51)20802. 13 (13225.34)	5148.24 29045.6 519.0 4-39432.19
Breeding (full)	7887.25 (3551.37)12841.0 2 (4103.03)	3002.01 13117.4 5637 8.05- 19996.58	11620.78 (5411.71)17813.9 9 (5339.52)	4756.39 19141.1 4965 3.73- 26844.61	17849.58 (7512.49)23229. 44 (6165.98)	7909.62 28295.7 7135 30.44- 33386.51
Autumn migration Post-breeding	11718.02 (9941.71)15359. 87 (13613.23)	1654.04 27855.8 1197 8.1-40027.72	15358.79 (12707.79)20176 .42 (17239.13)	2495.74 35402.8 330 70.55- 50340.57	21356.95 (17260.39)2806 8.98 (23403.2)	4054.59 49694.8 248 85.8- 70515.06

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Winter	10073.69 (910.82)13128.11 (1634.03)	8509.56- 12150.41007 5.03- 16547.14	14776.72 (1031.54)18868. 92 (1857.76)	12695.69- 16854.99151 62.96- 22596.01	19861.65 (1555.97)25456. 68 (2331.62)	16717.42- 22521.46206 98.87- 29643.13
Non-breeding	11718.02 (9941.71)15887. 27 (6758.33)	1654.04- 27855.81803 9.86- 26611.14	15358.79 (12707.79)22447 .26 (8745.1)	2495.74- 35402.83119 67.66- 35287.25	21356.95 (17260.39)29911 .54 (11302.32)	4054.59- 49694.8216 435.48- 45349.14

Table 57. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	10790.97 (7150.98-2019.68)	3180.69- 21063112.4 5-21561.63	15219.03 (9892.46)-15221. 72 (9769.17)	4556.13- 28550.6437 4.31- 29313.84	20763.74 (13245.99)-2080 2.13 (13225.34)	6724.2- 37897.26519 .04- 39432.19
Breeding (full)	10107.47 (4551.06)-12841. 02 (4103.03)	38476378.0 5- 46809.9419 996.58	14927.69 (6951.71)-17813.9 9 (5339.52)	6109.91- 24588.41965 3.73- 26844.61	23006.24 (9682.81)-23229. 44 (6165.98)	10194.67- 36470.26135 30.44- 33386.51
Autumn migration Post-breeding	15359.87 (13031.5)-13613.23)	2168.09- 36513.13197 8.1-40027.72	20136.03 (16660.45)-2017 6.42 (17239.13)	3272.02- 46414.6330 70.55- 50340.57	27996 (22625.99)-2806 8.98 (23403.2)	5315- 65143.0348 85.8- 70515.06
Winter	13128.11 (1186.99)-1634.03)	11089.72- 15834.1100 75.03- 16547.14	19243.22 (1343.34)-18868. 92 (1857.76)	16533.15- 21949.67151 62.96- 22596.01	25880.08 (2027.46)-25456. 68 (2331.62)	21783.1- 2934520698 .87-29643.13
Non-breeding	15359.87 (13031.5)-15887.2 7 (6758.33)	2168.09- 36513.13803 9.86- 26611.14	20136.03 (16660.45)-2244 7.26 (8745.1)	3272.02- 46414.63119 67.66- 35287.25	27996 (22625.99)-29911 .54 (11302.32)	5315- 65143.03164 35.48- 45349.14

Table 58. DBS - East & West. Seasonal peak abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	12.59 (13.2458 (21.4)	0- 49.7975.51	12.55 (13.567 (21.7)	0- 50.0676.02	16.72 (16.5578 (22.64)	0- 58.4675.79
Breeding (full)	12.59 (1621.1 (27.85)	0-50.8792.9	17.06 (20.3225.31 (31.79)	0- 59.7292.83	21.29 (25.2233.83 (43.48)	0- 76.63135.33
Autumn migration	12.65 (10.8818.87)	0-36.659.03	17.11 (14.2616.88 (20.16)	0-50.259.63	39.82 (26.9840.04 (35.35)	0- 109.24128.0 7
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Non-breeding	12.65 (10.88-16.81 (25.52)	0-36.683.99	17.11(14.16.98 (26.45)	0-50.284.79	39.82 (26.98-40.04 (35.35)	0- 109.24128.0 7

Table 59. DBS - East & West. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2099.46 (1512.46)2246.13 (1463.41)	565.09- 5060.14740. 99-5462.23	2756.74 (1879.07)2986. 06 (1690.48)	791.36- 6043.69116 5.62- 6632.29	3978.35 (1327.96)4017.7 2 (2161.04)	2333.17- 6531.291699 .53-8332.62
Breeding (full)	7030.93 (2902.4)10005.7 1(7841.47)	2806.55- 11877.32144. 46-27162.39	10386.77 (2768.04)13112. 65 (9267.62)	5450.21- 15118.46355 4.07- 32750.53	13879.18 (2751.9)16177.72 (9788.06)	8829.89- 18663.4356 94.64- 36493.16
Autumn migration	3756.74 (5204.93)5147.2 6 (6278.59)	345.57- 18582.1456. 44-21573.04	5213.63 (5048.09)6918. 5 (7672.51)	127.47- 12267.53678 .34-25178.27	8705.42 (8593.67)8965. 23 (10283.65)	186.8- 21142.44341. 12-30989
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3756.74 (5204.93)5147.2 6 (6278.59)	345.57- 18582.1456. 44-21573.04	5213.63 (5048.09)6918. 5 (7672.51)	127.47- 12267.53678 .34-25178.27	8705.42 (8593.67)8965. 23 (10283.65)	186.8- 21142.44341. 12-30989

Table 60. DBS - East & West. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.323)	0-25.4318	4.272 (7.1908)	0-25.621	4.262 (7.3726)	0-25.5419
Breeding (full)	8.33(14.5612.53 (22.02)	0-50.575.18	12.59(21.5707 (29.97)	0- 75.53101.16	12.69(11.0125.32 (32.9)	0- 42.3118.05
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.19(7.0415 (6.98)	0-25.1424.92

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.323)	0-25.4318	4.272 (7.4908)	0-25.621	4.262 (7.3726)	0-25.5419

Table 61. DBS - East & West. Seasonal peak abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.24 (7.5232)	0-26.1525.45	122.88 (168.0907 (184.74)	0- 584.12681.7 9	148.34 (182.27)147.16 (198.43)	0- 604.36631.0 1

Table 62. DBS - East & West. Seasonal peak abundance of Manx shearwater recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.19 (7.0609)	0-25.0614	4.21 (7.5)	0-25.28	4.2224 (7.0508)	0-25.3446
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.16 (7.4305)	0- 25.2524.98	4.2418 (7.3225)	0-25.2806	4.2217 (6.8275)	0-25.2902

Table 63. DBS - East & West. Seasonal peak abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	50.95 (54.47 59.43 (67.87))	0- 152.61 98.29	63.99 (67.23 72.59 (78.9))	0- 170.63 222.58	93.66 (97.77 110.57 (119.28))	0- 255.42 331.15
Breeding (full)	100.19 (94.41 133.62 (137.56))	0- 241.93 36.59	125.65 (119.52 171.92 (177.59))	0- 293.24 431.77	167.83 (162.29 227.25 (237.64))	0- 394.43 592.65
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	179.93 (153.92 221.71 (200.4))	16.83 443.62 10.15- 619.14	293.18 (199.98 376.92 (272.8))	33.61 611.13 1.32- 865.24	415.05 (276.8 528.22 (371.56))	75.66 837.99 73.14- 1178.8
Non-breeding	179.93 (153.92 221.71 (200.4))	16.83 443.62 10.15- 619.14	293.18 (199.98 376.92 (272.8))	33.61 611.13 1.32- 865.24	415.05 (276.8 528.22 (371.56))	75.66 837.99 73.14- 1178.8

Table 64. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	50.95 (54.47 59.43 (67.87))	0- 152.61 98.29	63.99 (67.23 72.59 (78.9))	0- 170.63 222.58	93.66 (97.77 110.57 (119.28))	0- 255.42 331.15
Breeding (full)	100.19 (94.41 133.62 (137.56))	0- 241.93 36.59	125.65 (119.52 171.92 (177.59))	0- 293.24 431.77	167.83 (162.29 227.25 (237.64))	0- 394.43 592.65
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	192.45 (164.63 221.71 (200.4))	18 474.49 10.15- 619.14	318.29 (217.11 376.92 (272.8))	36.49 663.44 31.32- 865.24	452.75 (301.95 528.22 (371.56))	82.53 914.12 73.14- 1178.8
Non-breeding	192.45 (164.63 221.71 (200.4))	18 474.49 10.15- 619.14	318.29 (217.11 376.92 (272.8))	36.49 663.44 31.32- 865.24	452.75 (301.95 528.22 (371.56))	82.53 914.12 73.14- 1178.8

Table 65. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	59.43 (63.54 67.87)	0- 177.99 198.29	72.52(76.25 78.9)	0- 193.39 222.58	106.43 (111.4)110.57 (119.28)	0- 290.25 331.15
Breeding (full)	116.9 (110.15)133.62 (137.56)	0- 282.23 336.59	146.6 (139.44)171.92 (177.59)	0- 342.08 431.77	193.04 (186.63)227.25 (237.64)	0- 453.65 592.65
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	221.71 (189.66 200.4)	20.74 546.63 10.15- 619.14	372.73 (254.24)376.92 (272.8)	42.73 776.93 31.32- 865.24	528.24(352.28 22 (371.56)	96.29 1066.48 73.1 4-1178.8
Non-breeding	221.71 (189.66 200.4)	20.74 546.63 10.15- 619.14	372.73 (254.24)376.92 (272.8)	42.73 776.93 31.32- 865.24	528.24(352.28 22 (371.56)	96.29 1066.48 73.1 4-1178.8

Table 66. DBS - East & West. Seasonal peak abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2718 5448.01 (2245.48 4037.35)	344.18 6131.99 753.66-12116.8	3817.38 (2897.56)8033.11 (5600.73)	623.07 7960.91 187.26-16596.42	5249.29 (3831.18)10835.62 (7389.01)	998.82 10590.38 1966.58- 21570.85
Breeding (full)	1120.98 (425.05)2028.08 (855.94)	476.48 1968.57 711.46-3810.11	1527.97 (632.08)2835.67 (1247.19)	568.57 2622.37 943.86-5116.12	2025.12 (878.05)3767.28 (1777.95)	778.47 3608.81 1256.85-7247.83
Autumn migration	3671.68 (4011.02)7178.48 (9206.81)	8.34 11236.91 2.4- 29783.95	4950.84 (5244.6)9572.55 (11433.33)	50.09 14411.78 94.55-35173.11	6317.71 (6476.28)10991.53 (13217.08)	108.66 17199.15 134.9-40092.3
Winter	2626.15 (2150.95)5760.41 (3112.68)	280.71 58462 047.55-10889.61	3783.7 (3167.74)8442.98 (4697.81)	433.39 8437.83 3162.14-15809.82	5078.13 (4378.19)10707.86 (6180.08)	492.47 11339.18 3827.45- 20329.81

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Non-breeding	3671.68 (4011.02)7178.4 8 (9206.81)	8.34 11236.912.4 29783.95	4950.84 (5244.6)9751.86 (9340.09)	50.09 14411.78635. 76-26084.14	6317.71 (647611905.85 (11411.28)	108.66 17199.15617. 35-30889.28

Table 67. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3525.52 (2912.6)5448.01 (4037.35)	446.44 7953.77753. 66-12116.8	5234.5 (1833.66)8033.1 1(5600.73)	1569.8 7951.721187. 26-16596.42	6993.85 (5133.79)10835. 62 (7389.01)	1338.42 14191.14196 6.58 21570.85
Breeding (full)	1693.58 (642.17)2028.08 (855.94)	719.86 2974.13711.4 6-3810.11	2348.8 (971.64)2835.67 (1247.19)	874.02 4031.13943. 86-5116.12	3103.25 (1345.5)3767.28 (1777.95)	1192.92 5530.071256 .85-7247.83
Autumn migration	3897.32 (4257.52)7178.4 8 (9206.81)	8.85 11927.4712.4 -29783.95	5241.48 (5552.48)9572.5 5 (11433.33)	53.03 15257.894.5 5-35173.11	6705.21 (6873.52)10991. 53 (13217.08)	115.32 18254.08134 .9-40092.3
Winter	3288.96 (2693.82)5760. 41 (3112.68)	351.56 7322.132047 .55-10889.61	4820.15 (4035.47)8442. 98 (4697.81)	552.11 10749.18316 2.14 15809.82	6485.55 (5591.61)10707. 86 (6180.08)	628.96 14481.85382 7.45 20329.81
Non-breeding	3897.32 (4257.52)7178.4 8 (9206.81)	8.85 11927.4712.4 -29783.95	5241.48 (5552.48)9751.8 6 (9340.09)	53.03 15257.8635. 76-26084.14	699311905.85 (5133.7911411.28)	1338.42 14191.14617. 35-30889.28

Table 68. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4262.94 (3521.79)5448.0 1(4037.35)	539.82- 9617.36753. 66-12116.8	6302.52 (2207.79)8033.1 1(5600.73)	1890.09- 9574.151187. 26-16596.42	8456.97 (6207.78)10835. 62(7389.01)	1618.42- 17159.93196 6.58- 21570.85
Breeding (full)	2028.07 (769.01)08 (855.94)	862.04- 3561.54711.4 6-3810.11	2826.13 (1169.1)2835.67 (1247.19)	1051.63- 4850.33943. 86-5116.12	3728.14 (1616.44)3767.2 8(1777.95)	1433.13- 6643.64125 6.85- 7247.83
Autumn migration	4717.84 (5153.87)7178.4 8(9206.81)	10.71- 14438.5912. 4-29783.95	6349.58 (67269572.55 (11433.33)	64.24- 18483.4894. 55-35173.11	8121.26 (8325.11)10991.5 3(13217.08)	139.67- 22409.08134 .9-40092.3
Winter	3971.7 (3253.02)5760.4 1(3112.68)	424.54- 8842.112047 .55-10889.61	5823.66 (4875.61)8442.9 8(4697.81)	667.05- 12987.05316 2.14- 15809.82	7843.22 (6762.15)10707. 86(6180.08)	760.63- 17513.46382 7.45- 20329.81
Non-breeding	4717.84 (5153.87)7178.4 8(9206.81)	10.71- 14438.5912. 4-29783.95	6349.58 (6726.33)9751.8 6(9340.09)	64.24- 18483.4863 5.76- 26084.14	8456.97 (6207.78)11905. 85(11411.28)	1618.42- 17159.93617. 35-30889.28

Table 69. DBS - East & West. Seasonal peak abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.21 (7.441)	0-25.2623
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0



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Ornithology Technical Appendix 12-5b Seabird peak seasonal abundances: birds on the sea

Date: 22/11/2024

Tel: 0141 342 5404

Web: www.macarthurgreen.com

Address: 93 South Woodside Road | Glasgow | G20 6NT

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1 INTRODUCTION

This appendix provides tables of seabird peak abundance in each species-specific season, as defined in Furness (2015)¹ for each species recorded during baseline surveys for the DBS East and West Offshore Wind Farm ~~Projects~~[projects](#) (March 2021 – February 2023).

Abundances were estimated using design-based methods and are summarised as central estimate (i.e. extrapolated from the number seen in the surveyed area to the whole area) and 95% confidence range, derived from 1,000 nonparametric bootstrap samples.

Appendix (a) provides the combined peak abundance of each species-specific season on the sea and in flight.

This appendix (b) provides the peak abundance of each species-specific season on the sea.

Appendix (c) provides the peak abundance of each species-specific season in flight.

¹ Furness, R.W. 2015. Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Report Number 164. 389 pp.

Table 1. DBS - East. Seasonal peak abundance of Arctic skua recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 2. DBS - East. Seasonal peak abundance of Arctic tern recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 3. DBS - East. Seasonal peak abundance of Common gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.33 (14.42)	0-49.96	8.35 (14.29)	0-50.11	8.34 (14.72)	0-50.04

Table 4. DBS - East. Seasonal peak abundance of Common tern recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 5. DBS - East. Seasonal peak abundance of Fulmar recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.24 (7.11)	0-25.43	8.32 (7.87)	0-25.47	24.6 (19.46)	0-65.2
Breeding (full)	58.67 (63.44)	0-226.29	66.77 (64.46)	0-191.89	79.88 (80.29)	0-260.87
Autumn migration	62.9 (59.95)	0-183.61	150.48 (142.11)	0-393.06	275.85 (266.93)	0-677.21
Winter	12.66 (16.23)	0-50.65	12.7 (15.64)	0-50.82	33.72 (29.36)	0-93.11
Non-breeding	62.9 (59.95)	0-183.61	150.48 (142.11)	0-393.06	275.85 (266.93)	0-677.21

Table 6. DBS - East. Seasonal peak abundance of Gannet recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	58.27 (89.54)	0-324.65	58.4 (92.76)	0-333.72	58.08 (93.61)	0-331.91
Breeding (full)	526.37 (137.87)	285.37-827.72	637.16 (231.51)	304.59-1184.74	1072.54 (696.51)	361.05-2759.16
Autumn migration	292.65 (218.87)	49.82-694.9	501.24 (362.26)	108.02-1137.56	592.76 (366.01)	174.44-1279.38
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 7. DBS - East. Seasonal peak abundance of Great black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	71.24 (46.66)	8.38-192.77	75.61 (46.92)	16.71-193.87	138.32 (58.52)	41.56-261.03
Breeding (full)	42.23 (49.02)	0-143.58	46.54 (52.27)	0-152.32	76.17 (82.53)	0-236.96
Autumn migration	0 (0)	0-0	20.91 (37.38)	0-125.44	20.9 (37.21)	0-125.41
Winter	4.24 (7.18)	0-25.43	12.39 (13.49)	0-48.88	20.68 (15.31)	0-57.05
Non-breeding	71.24 (46.66)	8.38-192.77	75.61 (46.92)	16.71-193.87	138.32 (58.52)	41.56-261.03

Table 8. DBS - East. Seasonal peak abundance of Great skua recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 9. DBS - East. Seasonal peak abundance of Guillemot recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1812.54 (1261.18)	406.88-3834.42	2612.31 (1059.08)	1335-4371.76	3749.2 (1729.95)	1786.24-6580.28
Breeding (full)	2514.94 (913.17)	1021.98-4087.51	3398.65 (1222.47)	1506.32-5352.74	4956.12 (568.84)	3904.44-6145.5
Post-breeding	4028.38 (3574.1)	644.9-11240.29	5340.52 (4520.03)	907.5-13897.72	7496.93 (5686.91)	1603.45-17540.77
Winter	5175.36 (638.7)	4053.48-6531.78	7247.55 (648.68)	5899.53-8486.53	9471.16 (895.34)	7674.58-10978.71
Non-breeding	5175.36 (638.7)	4053.48-6531.78	7247.55 (648.68)	5899.53-8486.53	9471.16 (895.34)	7674.58-10978.71

Table 10. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2778.2 (1000.53)	1459.81-4546.08	4050.13 (1642)	2069.79-6777.99	5631.26 (2598.36)	2682.91-9883.49
Breeding (full)	4843.08 (1758.51)	1968.04-7871.4	6578.56 (2366.26)	2915.69-10360.98	8670.78 (3005.27)	4048.67-13362.07
Post-breeding	4433.17 (3933.24)	709.7-12369.78	5855.71 (4956.07)	995.05-15238.4	8384.33 (6360.05)	1793.24-19617.04
Winter	6610.01 (815.75)	5177.14-8342.43	9456.19 (846.37)	7697.36-11072.73	12410.79 (1173.24)	10056.6-14386.25
Non-breeding	6610.01 (815.75)	5177.14-8342.43	9456.19 (846.37)	7697.36-11072.73	12410.79 (1173.24)	10056.6-14386.25

Table 11. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3642.99 (1311.97)	1914.22- 5961.16	5313.71 (2154.28)	2715.53- 8892.61	7381.91 (3406.13)	3516.97- 12956.08
Breeding (full)	6349.43 (2305.46)	2580.16- 10319.66	8622.51 (3101.45)	3821.59- 13580.12	11367.22 (3939.85)	5307.73- 17517.41
Post-breeding	5812.28 (5156.83)	930.48- 16217.88	7678.05 (6498.44)	1304.71- 19980.71	10989.81 (8336.48)	2350.51- 25713.16
Winter	8668.87 (1069.83)	6789.69- 10940.9	12398.26 (1109.69)	10092.21- 14517.75	16272.19 (1538.27)	13185.54- 18862.29
Non-breeding	8668.87 (1069.83)	6789.69- 10940.9	12398.26 (1109.69)	10092.21- 14517.75	16272.19 (1538.27)	13185.54- 18862.29

Table 12. DBS - East. Seasonal peak abundance of Herring gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.19 (7.42)	0-25.14	4.21 (7.51)	0-25.29	4.21 (7.55)	0-25.25
Breeding (full)	12.59 (15.5)	0-50.36	16.81 (20.48)	0-58.82	16.79 (20.18)	0-58.77
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.19 (7.42)	0-25.14	4.21 (7.51)	0-25.29	4.21 (7.55)	0-25.25

Table 13. DBS - East. Seasonal peak abundance of Kittiwake recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	502.87 (249.09)	226.29-1131.45	734.95 (261.07)	354.02-1374.15	1112.16 (460.61)	559.45-2154.3
Breeding (full)	4179.74 (1749.98)	1486.3-7394.45	5260.59 (1880.25)	2183.1-8689.16	6353.77 (1899.09)	3199.03-9513.33
Autumn migration	747.44 (738.85)	25.43-2212.99	1134.33 (1122.54)	33.96-3226.67	2728.19 (2838.79)	42.27-8191.33
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	747.44 (738.85)	25.43-2212.99	1134.33 (1122.54)	33.96-3226.67	2728.19 (2838.79)	42.27-8191.33

Table 14. DBS - East. Seasonal peak abundance of Lesser black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.52)	0-25.18	4.2 (7.14)	0-25.21	4.2 (7.23)	0-25.19
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.21 (7.56)	0-25.24
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.52)	0-25.18	4.2 (7.14)	0-25.21	4.2 (7.23)	0-25.19

Table 15. DBS - East. Seasonal peak abundance of Little gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	67.17 (112.17)	0-403.05	92.26 (134.64)	0-452.9

Table 16. DBS - East. Seasonal peak abundance of Manx shearwater recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 17. DBS - East. Seasonal peak abundance of Puffin recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.79 (20.19)	0-58.75	25.21 (26.88)	0-75.63	46.18 (50.16)	0-142.74
Breeding (full)	41.67 (43.69)	0-116.67	54.3 (58.08)	0-158.71	71.11 (75.59)	0-200.79
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	95.52 (95.87)	0-274.01	133 (123.64)	0-340.67	186.98 (167.76)	8.36-456.85
Non-breeding	95.52 (95.87)	0-274.01	133 (123.64)	0-340.67	186.98 (167.76)	8.36-456.85

Table 18. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.79 (20.19)	0-58.75	25.21 (26.88)	0-75.63	46.18 (50.16)	0-142.74
Breeding (full)	41.67 (43.69)	0-116.67	54.3 (58.08)	0-158.71	71.11 (75.59)	0-200.79
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	103.83 (104.2)	0-297.83	153.77 (142.95)	0-393.88	216.05 (193.84)	9.66-527.89
Non-breeding	103.83 (104.2)	0-297.83	153.77 (142.95)	0-393.88	216.05 (193.84)	9.66-527.89

Table 19. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.98 (25.24)	0-73.44	29.41 (31.36)	0-88.23	54.58 (59.28)	0-168.69
Breeding (full)	50 (52.43)	0-140.01	62.65 (67.01)	0-183.13	83.66 (88.93)	0-236.22
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	120.43 (120.87)	0-345.46	178.7 (166.12)	0-457.73	249.27 (223.65)	11.15-609.07
Non-breeding	120.43 (120.87)	0-345.46	178.7 (166.12)	0-457.73	249.27 (223.65)	11.15-609.07

Table 20. DBS - East. Seasonal peak abundance of Razorbill recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1059 (652.64)	177.37-2216.03	1590.61 (961.16)	236.95-3142.95	2119.32 (1287.13)	389.3-3929.72
Breeding (full)	184.5 (62.71)	84.62-325.02	292.15 (128.02)	91.77-567.74	570.93 (348.56)	166.54-1384.03
Autumn migration	2693.5 (2933.69)	0-8576.18	3654.07 (3935.53)	42.01-10865.62	4299.87 (4560.9)	33.58-12385.84
Winter	1579.18 (248.13)	1105.96-2051.71	2164.3 (307.62)	1634.63-2773.94	2761.7 (399.71)	2073.85-3575.66
Non-breeding	2693.5 (2933.69)	0-8576.18	3654.07 (3935.53)	42.01-10865.62	4299.87 (4560.9)	33.58-12385.84

Table 21. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1950.69 (1202.17)	326.71- 4081.95	2917.71 (1763.09)	434.64- 5765.22	3909.22 (2374.19)	718.09- 7248.62
Breeding (full)	266.21 (117.23)	74.25-520.21	442.42 (193.87)	138.98- 859.76	862.71 (526.69)	251.65- 2091.33
Autumn migration	2880.86 (3137.76)	0-9172.74	3871.29 (4169.48)	44.51- 11511.54	4566.88 (4844.12)	35.67- 13154.97
Winter	1990.02 (312.68)	1393.68- 2585.47	2777.56 (394.79)	2097.81- 3559.94	3542.28 (512.68)	2660.01- 4586.3
Non-breeding	2880.86 (3137.76)	0-9172.74	3871.29 (4169.48)	44.51- 11511.54	4566.88 (4844.12)	35.67- 13154.97

Table 22. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2362.7 (1456.09)	395.72- 4944.1	3532.41 (2134.53)	526.21- 6979.83	4734 (2875.11)	869.59- 8777.95
Breeding (full)	324.44 (142.87)	90.49-634	534.24 (234.11)	167.82- 1038.2	1041.92 (636.1)	303.93- 2525.77
Autumn migration	3488.69 (3799.78)	0-11108.05	4685.63 (5046.55)	53.87- 13933.05	5530.3 (5866.03)	43.19- 15930.13
Winter	2406.33 (378.1)	1685.24- 3126.36	3364.77 (478.25)	2541.31- 4312.55	4291.54 (621.13)	3222.65- 5556.39
Non-breeding	3488.69 (3799.78)	0-11108.05	4685.63 (5046.55)	53.87- 13933.05	5530.3 (5866.03)	43.19- 15930.13

Table 23. DBS - West. Seasonal peak abundance of Arctic skua recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 24. DBS - West. Seasonal peak abundance of Arctic tern recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 25. DBS - West. Seasonal peak abundance of Common gull recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	16.96 (25.91)	0-84.82	21.26 (27.22)	0-85.03	21.3 (27.96)	0-85.2

Table 26. DBS - West. Seasonal peak abundance of Common tern recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 27. DBS - West. Seasonal peak abundance of Fulmar recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	51.87 (64.64)	0-207.49
Breeding (full)	146.29 (126.96)	8.24-393.64	225.84 (190.51)	16.33-510.85	285.42 (247.19)	24.88-621.81
Autumn migration	33.82 (24.75)	0-84.6	37.98 (27.09)	0-92.85	42.26 (27.93)	8.45-92.98
Winter	14.78 (18.54)	0-59.13	49.32 (59.26)	0-177.56	73.74 (78.55)	0-216.3
Non-breeding	33.82 (24.75)	0-84.6	49.32 (59.26)	0-177.56	73.74 (78.55)	0-216.3

Table 28. DBS - West. Seasonal peak abundance of Gannet recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	38.48 (41.93)	0-111.16	38.79 (42.08)	0-120.68	82.13 (92.72)	0-268.01
Breeding (full)	230.4 (80.97)	109.27-409.73	302.21 (81.96)	159.21-470.72	341.49 (80.07)	201.93-515.23
Autumn migration	397.46 (292.27)	59.06-913.72	510.6 (389.22)	50.6-1089.05	570.55 (433.96)	67.63-1217.16
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. DBS - West. Seasonal peak abundance of Great black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.43 (20.16)	0-65.71	41.71 (41.46)	0-159.12	54.29 (39.76)	0-159.65
Breeding (full)	8.51 (14.19)	0-51.05	8.5 (14.6)	0-51.02	8.52 (14.28)	0-51.12
Autumn migration	12.72 (18.43)	0-59.37	42.42 (60.8)	0-203.61	42.5 (60.16)	0-195.48
Winter	29.9 (28.19)	0-102.44	34.2 (29.68)	0-110.59	38.61 (29.69)	0-110.85
Non-breeding	29.9 (28.19)	0-102.44	42.42 (60.8)	0-203.61	54.29 (39.76)	0-159.65

Table 30. DBS - West. Seasonal peak abundance of Great northern diver recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.25 (7.52)	0-25.51
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.25 (7.52)	0-25.51

Table 31. DBS - West. Seasonal peak abundance of Great skua recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 32. DBS - West. Seasonal peak abundance of Guillemot recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4250.92 (3370.55)	692-9279.95	5819.35 (4489.44)	1000.2- 12067.91	7787.69 (5669.06)	1791.56- 15487.03
Breeding (full)	3167.62 (582.78)	1980.62- 4452.91	4670.63 (770.58)	3118.32- 6481.92	6146.25 (887.61)	4160.01- 7900.03
Post-breeding	6955.28 (6359.04)	763.18- 17781.09	8867.1 (7907.26)	1211.25- 22050.6	12096.46 (10594.23)	1839.02- 31357.25
Winter	2504.99 (349.92)	1803.57- 3163.67	3596.79 (421.98)	2781.72- 4431.47	5032.36 (546.66)	3971.45- 6105.69
Non-breeding	6955.28 (6359.04)4250. 92(3370.55)	763.18- 17781.09692 -9279.95	8867.1 (7907.26)5819.3 5(4489.44)	1211.25- 22050.6100 0.2-12067.91	12096.46 (10594.23)7787. 69(5669.06)	1839.02- 31357.25179 1.56- 15487.03

Table 33. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	5352.82 (4244.25)	871.38- 11685.45	7452.04 (5749)	1280.82- 15453.7	10051.88 (7317.28)	2312.43- 19989.73
Breeding (full)	4580.77 (1334.31)	2613.39- 7039.08	6520.7 (1601.31)	3955.64- 9596.72	8422.88 (1599.54)	5450.53- 11325.51
Post-breeding	7284.85 (6660.35)	799.34- 18623.63	9533.89 (8501.87)	1302.33- 23708.78	13026.07 (11408.39)	1980.35- 33767.04
Winter	3176.22 (443.68)	2286.85- 4011.39	4633.38 (543.59)	3583.41- 5708.61	6574.97 (714.23)	5188.86- 7977.32
Non-breeding	7284.85 (6660.35) 5352. 82 (4244.25)	799.34 18623.63 871 .38-11685.45	9533.89 (8501.87) 7452.0 4 (5749)	1302.33 23708.78 128 0.82-15453.7	13026.07 (11408.39) 10051 .88 (7317.28)	1980.35 33767.04 231 2.43- 19989.73

Table 34. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	7014.62 (5561.9)	1141.91- 15313.25	9770.33 (7537.49)	1679.28- 20261.28	13177.66 (9592.7)	3031.52- 26205.84
Breeding (full)	6004.42 (1749)	3425.6- 9226.73	8548.71 (2099.33)	5185.89- 12581.41	11042.12 (2096.95)	7145.46- 14847.37
Post-breeding	9547.59 (8729.12)	1047.62- 24408.29	12498.37 (11145.46)	1707.28- 31080.81	17079.17 (14958.14)	2596.54- 44273.74
Winter	4167.69 (582.18)	3000.7- 5263.57	6074.67 (712.68)	4698.09- 7484.37	8620.69 (936.45)	6803.31- 10459.36
Non-breeding	9547.59 (8729.12) 7014.6 2 (5561.9)	1047.62 24408.29 114 1.91-15313.25	12498.37 (11145.46) 9770. 33 (7537.49)	1707.28 31080.81 202 61.28	17079.17 (14958.14) 13177. 66 (9592.7)	2596.54 44273.74 30 31.52- 26205.84

Table 35. DBS - West. Seasonal peak abundance of Herring gull recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	4.15 (7.15)	0-24.87
Breeding (full)	4.25 (7.07)	0-25.52	4.25 (7.24)	0-25.51	4.32 (7.48)	0-25.9
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.15 (7.15)	0-24.87

Table 36. DBS - West. Seasonal peak abundance of Kittiwake recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	870.13 (952.93)	41.19-2981.58	970.47 (967.72)	74.4-3107.16	1186.87 (668.15)	345.77-2554.01
Breeding (full)	2598.78 (3231.79)	0-10090.34	3558.36 (4160.31)	0-13030.4	3978.68 (4590.91)	0-13636.95
Autumn migration	3253.08 (4703.06)	34.04-15749.66	4034.46 (5645.76)	25.6-18775.41	4148.47 (5663.29)	128.08-18725.14
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3253.08 (4703.06)	34.04-15749.66	4034.46 (5645.76)	25.6-18775.41	4148.47 (5663.29)	128.08-18725.14

Table 37. DBS - West. Seasonal peak abundance of Lesser black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	12.64 (22.58)	0-75.84	12.66 (21.59)	0-75.99
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 38. DBS - West. Seasonal peak abundance of Little gull recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.24 (7.41)	0-25.45	4.24 (7.56)	0-25.45	4.25 (7.21)	0-25.5

Table 39. DBS - West. Seasonal peak abundance of Puffin recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	29.97 (33.68)	0-94.18	34.65 (37.05)	0-103.94	43.17 (45.35)	0-120.86
Breeding (full)	71.07 (72.55)	0-175.6	92.46 (94.65)	0-218.55	122.47 (124.86)	0-295.62
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	84.4 (67.69)	8.46-219.36	160.27 (87.74)	25.32-320.46	219.78 (124.63)	42.26-439.57
Non-breeding	84.4 (67.69)	8.46-219.36	160.27 (87.74)	25.32-320.46	219.78 (124.63)	42.26-439.57

Table 40. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	29.97 (33.68)	0-94.18	34.65 (37.05)	0-103.94	43.17 (45.35)	0-120.86
Breeding (full)	71.07 (72.55)	0-175.6	92.46 (94.65)	0-218.55	122.47 (124.86)	0-295.62
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	88.62 (71.07)	8.88-230.32	168.7 (92.36)	26.65-337.32	232.46 (131.82)	44.7-464.93
Non-breeding	88.62 (71.07)	8.88-230.32	168.7 (92.36)	26.65-337.32	232.46 (131.82)	44.7-464.93

Table 41. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	34.25 (38.49)	0-107.64	38.98 (41.68)	0-116.94	51.8 (54.41)	0-145.03
Breeding (full)	83.62 (85.35)	0-206.58	109.27 (111.85)	0-258.28	143.59 (146.38)	0-346.59
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	101.28 (81.22)	10.15-263.21	198.22 (108.52)	31.32-396.35	270.5 (153.4)	52.02-541.01
Non-breeding	101.28 (81.22)	10.15-263.21	198.22 (108.52)	31.32-396.35	270.5 (153.4)	52.02-541.01

Table 42. DBS - West. Seasonal peak abundance of Razorbill recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1934.71 (1628.56)	210.21- 4526.46	2702.77 (2020.49)	390.02- 5758.35	3706.65 (2700.06)	657.81- 7760.28
Breeding (full)	858.34 (436.69)	226.94- 1739.24	1154.82 (589.82)	326.59- 2151.84	1345.78 (683.19)	353.17- 2525.67
Autumn migration	2527.72 (3643.68)	8.51- 12451.63	3041.6 (4110.5)	25.6- 13023.42	3429.74 (4506.46)	42.76- 15198.16
Winter	2158.64 (1784.49)	239.02- 5070.54	3241.51 (2715.6)	382.59- 7301.41	4132.32 (3575.8)	366.67- 9675.19
Non-breeding	2527.72 (3643.68)	8.51- 12451.63	3241.51 (2715.6)	382.59- 7301.41	4132.32 (3575.8)	366.67- 9675.19

Table 43. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2516.02 (2117.87)	273.36- 5886.48	3648.83 (2727.73)	526.55- 7773.97	4965.4 (3616.98)	881.19- 10395.62
Breeding (full)	1339.38 (681.43)	354.12- 2713.97	1822.92 (931.05)	515.53- 3396.76	2152.18 (1092.56)	564.8- 4039.07
Autumn migration	3032.42 (4371.19)	10.21- 14937.78	4000.32 (5406.14)	33.67- 17128.41	4470.98 (5874.58)	55.75- 19812.19
Winter	2739.64 (2264.79)	303.35- 6435.28	4171.65 (3494.83)	492.37- 9396.5	5254 (4546.41)	466.2- 12301.42
Non-breeding	3032.42 (4371.19)	10.21- 14937.78	4171.65 (3494.83)	492.37- 9396.5	5254 (4546.41)	466.2- 12301.42

Table 44. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3048.07 (2565.73)	331.17- 7131.27	4417.65 (3302.46)	637.49- 9411.96	6014.26 (4381)	1067.33- 12591.52
Breeding (full)	1624 (826.24)	429.37- 3290.71	2209.35 (1128.41)	624.82- 4116.8	2603.72 (1321.78)	683.29- 4886.49
Autumn migration	3672.82 (5294.33)	12.37- 18092.46	4844.5 (6546.99)	40.78- 20743.01	5414.48 (7114.28)	67.51- 23993.09
Winter	3316.63 (2741.77)	367.24- 7790.61	5048.98 (4229.83)	595.92- 11372.68	6362.58 (5505.7)	564.57- 14896.99
Non-breeding	3672.82 (5294.33)	12.37- 18092.46	5048.98 (4229.83)	595.92- 11372.68	6362.58 (5505.7)	564.57- 14896.99

Table 45. DBS - West. Seasonal peak abundance of Red-throated diver recorded on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.21 (7.61)	0-25.23
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 46. DBS - East & West. Seasonal peak abundance of Arctic skua recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 47. DBS - East & West. Seasonal peak abundance of Arctic tern recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 48. DBS - East & West. Seasonal peak abundance of Common gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	21.09 (27.4725.29 (40.33)	0- 84.47134.78	29.5(35.7961 (41.51)	0- 109.56135.14	29.5(36.7364 (42.68)	0- 109.59135.24

Table 49. DBS - East & West. Seasonal peak abundance of Common tern recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 50. DBS - East & West. Seasonal peak abundance of Fulmar recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.24 (7.4311)	0-25.5243	8.4432 (7.9887)	0-25.4947	75.59 (77.7576.47 (84.1)	0- 251.79272.6 9
Breeding (full)	196.27 (167.2)204.96 (190.4)	8.31 492.6324 619.93	292.48 (248.7661 (254.97)	16.66- 651.9933 702.74	359.03 (313.55)365.3 (327.48)	25.02 784.9424.8 8-882.68
Autumn migration	96.54(73.7972 (84.7)	8.37 252.490 268.21	188.98 (163.5846 (169.2)	8.37 453.70- 485.91	319.4 (293.05)318.11 (294.86)	16.76 748.28.45 770.19
Winter	27.45(31.3344 (34.77)	0- 91.49109.78	59.28 (66.8962.02 (74.9)	0- 191.52228.3 8	104.31 (100.29)107.46 (107.91)	0- 282.21309.4 1
Non-breeding	96.54(73.7972 (84.7)	8.37 252.490 268.21	188.98 (163.58)199.8 (201.37)	8.37 453.70- 570.62	319.4 (293.05)349.59 (345.48)	16.76 748.20 893.51

Table 51. DBS - East & West. Seasonal peak abundance of Gannet recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	71.09 (71.42)96.75 (131.47)	0- 216.54435.8 1	71.28 (71.6)97.19 (134.84)	0- 217.86454.4	125.94 (129.45)140.21 (186.33)	0- 377.69599.9 2
Breeding (full)	534.94 (134.23)756.77 (218.84)	292.25- 818.58394.6 4-1237.45	706.86 (253.92)939.37 (313.47)	345.33- 1297.47463. 8-1655.46	1228.33 (773.25)1414.03 (776.58)	408.68- 2988.82562. 98-3274.39
Autumn migration	690.11 (492.64)511.14)	142.29- 1498.4108.8 8-1608.62	1011.88 (733.13)84 (751.48)	200.91- 2092.29158. 62-2226.61	1163.69 (777.04)31 (799.97)	293.3- 2311.85242.0 7-2496.54
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 52. DBS - East & West. Seasonal peak abundance of Great black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	87.67 (56.79)66.82)	16.79- 224.048.38- 258.48	96.26 (54.37)117.32 (88.38)	25.26- 225.2716.71- 352.99	171.65(192.61)35 (98.28)	66.82- 300.7441.56- 420.68
Breeding (full)	42.23 (48.48)50.74 (63.21)	0-442194.63	46.34(5255.04 (66.87)	0- 151.65203.3 4	84.18(90.92)69 (96.81)	0- 252.75288.0 8
Autumn migration	12.72 (18.93)43)	0-61.0459.37	43.59 (62.49)63.33 (98.18)	0- 209.25329.0 5	43.5(61.58)63.4 (97.37)	0- 200.4320.89
Winter	34.14 (29.62)35.37)	0- 110.58127.87	46.44(31.33)59 (43.17)	0- 118.97159.47	59.09(32.47)29 (45)	8.49- 134.330- 167.9
Non-breeding	87.67 (56.79)101.14 (74.85)	16.79- 224.048.38- 295.21	96.26 (54.37)118.03 (107.72)	25.26- 225.2716.71- 397.48	171.65(192.61)35 (98.28)	66.82- 300.7441.56- 420.68

Table 53. DBS - East & West. Seasonal peak abundance of Great northern diver recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.4725 (7.3852)	0-25.0351
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.4725 (7.3852)	0-25.0351

Table 54. DBS - East & West. Seasonal peak abundance of Great skua recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 55. DBS - East & West. Seasonal peak abundance of Guillemot recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	5990.96 (3929.37)10657.61(6873.87)	1737.45 11656.22 305.6.13- 21274.41	8424.71 (5480.12)15084.04(9691.77)	2507.36 15831.97 439.4.81- 29153.89	11512.4 (7299.99)20559.57(12998.83)	3794.47 21093.14 654.8.49- 39161.92
Breeding (full)	5396.88 (680.09)12353.85(4054.46)	4198.81 7032.44 600.5.76- 19546.39	7944.82 (868.47)17171.22(5200.78)	6152.36 9810.39 900.7.48- 26161.53	11100.43 (1034.73)22409.34(6036.8)	8884.16 13065.06 124.53.19- 32364.78
Autumn migration Post-breeding	10983.65 (9494.22)15359.87(13885.95)	1558.71 26404.89 19.78.1- 40626.17	14179.01 (12002.68)2017.6.42(17643.9)	2304.24 32547.73 011.99-51061.52	19547.28 (15705.3)28068.98(23294.62)	3736.1 44225.74 49.47.05- 69986.9
Winter	7680.36 (727.84)12836.56(1652.01)	6377.25 9221.86 979.0.39- 16204.47	11031.44 (804.82)18472.93(1822.37)	9370.33 12516.08 147.90.3- 22002.12	14727.36 (1326.15)24892.88(2474.72)	12237.26 17005.37 199.88.85- 29321.65
Non-breeding	10983.65 (9494.22)15683.49(6631.73)	1558.71 26404.89 79.31.6- 26254.15	14179.01 (12002.68)2216.8.59(8647.18)	2304.24 32547.71 1771.49- 34779.03	19547.28 (15705.3)29449.85(11130.97)	3736.1 44225.74 162.17.06- 45068.13

Table 56. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8131.02 (5332.99)10657.61(6873.87)	2358.09 15819.99 305.6.13- 21274.41	11503.01 (7482.5)15084.04(9691.77)	3423.52 21616.84 394.81-29153.89	15655.2 (9926.93)20559.57(12998.83)	5159.93 28683.61 65.48.49- 39161.92
Breeding (full)	7325.96 (3142.7)12353.85(4054.46)	2841.34 12198.03 600.5.76- 19546.39	10867.48 (4799.45)17171.22(5200.78)	4659.63 17585.35 90.07.48- 26161.53	16923.17 (6821.63)22409.34(6036.8)	7846.23 26551.06 124.53.19- 32364.78
Autumn migration Post-breeding	11718.02 (10129)15359.87(13885.95)	1662.93 28170.32 197.8.1-40626.17	15358.79 (13001.37)20176.42(17643.9)	2495.96 35255.86 301.1.99- 51061.52	21356.95 (17159.27)28068.98(23294.62)	4081.98 48320.11 494.7.05- 69986.9

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Winter	9786.23 (927.41)12836.5 6 (1652.01)	8125.83 417509790.3 9-16204.47	14372.58 (1048.59)18472. 93 (1822.37)	12208.36 16306.88147 90.3- 22002.12	19310.65 (1738.86)24892. 88 (2474.72)	16045.61 22297.64199 88.85- 29321.65
Non-breeding	11718.02 (10129)15683.49 (6631.73)	1662.93 28170.32793 1.6-26254.15	15358.79 (13001.37)22168 .59 (8647.18)	2495.96 35255.86117 71.49- 34779.03	21356.95 (17159.27)29449 .85 (11130.97)	4081.98 48320.44162 17.06- 45068.13

Table 57. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	10657.61 (6990.46873.87)	3090.84 20735.84 305 6.13- 21274.41	15084.25 (9840.08)15084. 04 (9691.77)	4488.47 28341.45 439 4.81- 29153.89	20521.63 (13042.72)20559 .57 (12998.83)	6763.9 37599 6548. 49-39161.92
Breeding (full)	9605 (4120.36)12353. 85 (4054.46)	3725.25 15992.72 60 05.76- 19546.39	14246.59 (62947171.22 (5200.78)	6108.49 23053.29 90 07.48- 26161.53	22185.7 (8942.93)22409 .34 (6036.8)	10286.14 34807.54 12 453.19- 32364.78
Autumn migration Post-breeding	15359.87 (1327713885.95)	2179.75 36925.38 197 8.1-40626.17	20136.03 (17045.36)20176 .42 (17643.9)	3272.32 46221.94 301 1.99- 51061.52	27996 (22493.43)2806 8.98 (23294.62)	5350.91 63340.97 49 47.05- 69986.9
Winter	12836.56 (1216.481652.01)	10658.62 15412.95 79 0.39- 16204.47	18839.82 (1374.5)18472.9 3 (1822.37)	16002.93 21375.34 147 90.3- 22002.12	25317.33 (2279.74)24892. 88 (2474.72)	21036.68 29233.39 199 88.85- 29321.65
Non-breeding	15359.87 (13277)15683.49 (6631.73)	2179.75 36925.38 79 31.6- 26254.15	20136.03 (17045.36)22168 .59 (8647.18)	3272.32 46221.94 117 71.49- 34779.03	27996 (22493.43)2944 9.85 (11130.97)	5350.91 63340.97 16 217.06- 45068.13

Table 58. DBS - East & West. Seasonal peak abundance of Herring gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.19 (7.3442)	0- 24.89 25.14	4.4721 (7.4351)	0-25.0329	8.35 (12.05 36 (14.7)	0-41.7650.12
Breeding (full)	12.59 (15.66)16.84 (22.57)	0- 50.87 75.88	1721.06 (20.827.72)	0- 59.72 84.33	21.29 (24.86 11 (27.66)	0- 76.63 84.67
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.19 (7.3442)	0- 24.89 25.14	4.4721 (7.4351)	0-25.0329	8.35 (12.05 36 (14.7)	0-41.7650.12

Table 59. DBS - East & West. Seasonal peak abundance of Kittiwake recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	1324.09 (1296.36)1373 (1202.02)	116.38 3925.42267. 48-4113.03	1546.04 (1452.37)1705.4 2 (1228.79)	133.28 4438.99428 .42-4481.31	2300.29 (1025.09)2299.0 3 (1128.76)	1040.79 4326.36905. 22-4708.31
Breeding (full)	4764.16 (1996.51)6778.5 2 (4981.77)	1820.71 8291.071486 .3-17484.79	6950.82 (1779.27)8818.9 5 (6040.56)	3437.45 10007.95218 3.1-21719.56	8778.22 (1943.08)10332. 45 (6490)	4991.05 11974.313199 .03-23150.28
Autumn migration	3351.77 (4821.74)4000.5 2 (5441.91)	126.43 16296.2559. 47-17962.65	4314.25 (5745.7)5168.79 (6768.3)	228.36 19365.2959. 56-22002.08	6295.65 (6321.95)6876.6 6 (8502.08)	67.72 16274.49170 .35-26916.47
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	3351.77 (4821.74)4000.5 2 (5441.91)	126.43 16296.2559. 47-17962.65	4314.25 (5745.7)5168.79 (6768.3)	228.36 19365.2959. 56-22002.08	6295.65 (6321.95)6876.6 6 (8502.08)	67.72 16274.49170 .35-26916.47

Table 60. DBS - East & West. Seasonal peak abundance of Lesser black-backed gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.652)	0-25.4318	4.272 (7.2514)	0-25.621	4.262 (7.3323)	0-25.5419
Breeding (full)	0 (0)	0-0	12.5964 (22.4958)	0-75.5384	12.58 (21.44)16.87 (29.15)	0- 75.48101.23
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.652)	0-25.4318	4.272 (7.2514)	0-25.621	4.262 (7.3323)	0-25.5419

Table 61. DBS - East & West. Seasonal peak abundance of Little gull recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.24 (7.6241)	0-26.1525.45	72.08 71.41 (119.73)	0- 406.34428.5	97.52 96.51 (141.85)	0- 457.37478.4

Table 62. DBS - East & West. Seasonal peak abundance of Manx shearwater recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 63. DBS - East & West. Seasonal peak abundance of Puffin recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	46.75 (50.79)55.23 (63.73)	0- 135.64 181.08	59.72 (61.87)68.39 (73.04)	0- 153.57 205.17	89.4 (92.32)106.38 (113.69)	0- 238.4 313.72
Breeding (full)	100.19 (94.37)133.62 (137.78)	0- 241.93 46.59	125.65 (120.57)171.92 (178.86)	0- 293.42 441.41	167.83 (162.38)227.25 (235.31)	0- 394.4 3582.81
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	179.93 (156.16)221.71 (202.09)	16.83 435.45 10.15- 608.67	293.18 (201.95)376.92 (274.64)	42.01 611.13 1.32- 854.08	406.64 (281.96)519.77 (377.05)	67.04 829.6 63.17- 1150.08
Non-breeding	179.93 (156.16)221.71 (202.09)	16.83 435.45 10.15- 608.67	293.18 (201.95)376.92 (274.64)	42.01 611.13 1.32- 854.08	406.64 (281.96)519.77 (377.05)	67.04 829.6 63.17- 1150.08

Table 64. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	46.75 (50.79)55.23 (63.73)	0- 135.64 181.08	59.72 (61.87)68.39 (73.04)	0- 153.57 205.17	89.4 (92.32)106.38 (113.69)	0- 238.4 313.72
Breeding (full)	100.19 (94.37)133.62 (137.78)	0- 241.93 46.59	125.65 (120.57)171.92 (178.86)	0- 293.42 441.41	167.83 (162.38)227.25 (235.31)	0- 394.4 3582.81
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	192.45 (167.02)221.71 (202.09)	18 465.76 10.15- 608.67	318.29 (219.24)376.92 (274.64)	45.61 663.44 31.32- 854.08	444.35 (308.11)519.77 (377.05)	73.26 906.5 463.17- 1150.08
Non-breeding	192.45 (167.02)221.71 (202.09)	18 465.76 10.15- 608.67	318.29 (219.24)376.92 (274.64)	45.61 663.44 31.32- 854.08	444.35 (308.11)519.77 (377.05)	73.26 906.5 463.17- 1150.08

Table 65. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	55.23 (6063.73)	0- 160.24 181.08	68.25 (70.74)39 (73.04)	0- 175.54 205.17	102.17 (105.54)106.38 (113.69)	0- 272.45 313.72
Breeding (full)	116.9 (110.1)133.62 (137.78)	0- 282.23 346.59	146.6 (140.66)171.92 (178.86)	0- 342.33 441.41	193.01 (186.74)227.25 (235.31)	0- 453.65 82.81
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	221.71 (192.42)202.09)	20.74 536.58 10.15-608.67	372.73 (256.75)376.92 (274.64)	53.41 776.93 31.32-854.08	519.81 (360.43)77 (377.05)	85.7 1060.49 63.17-1150.08
Non-breeding	221.71 (192.42)202.09)	20.74 536.58 10.15-608.67	372.73 (256.75)376.92 (274.64)	53.41 776.93 31.32-854.08	519.81 (360.43)77 (377.05)	85.7 1060.49 63.17-1150.08

Table 66. DBS - East & West. Seasonal peak abundance of Razorbill recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2697.4 (2255.61)5410.77 (4021.82)	344.18 6173.68 726.89-12075.37	3796.49 (2878.56)7950.06 (5436.99)	606.23 7926.27 1163.7-16391.79	5185.79 (3878.63)10748.26 (7256.11)	940.07 10682 1936.92-21369.47
Breeding (full)	1037.18 (480.29)1948.44 (969.11)	326.01 1952.15 19.86-3924.71	1444.35 (681.84)2743.59 (1362.52)	501.47 2580.48 792.64-5155	1912.08 (955.17)3645.64 (1957.88)	602.69 3549.86 987.22-7412.26
Autumn migration	3671.68 (3895.49)7161.51 (9094.11)	8.34 10716.95 12.37-29200.51	4950.84 (5171.77)9530.13 (11593.54)	50.09 13863.78 94.65-34676.06	6317.71 (6497.71)10944.78 (12980.31)	100.3 17442.57 110.7-39923.22
Winter	25845 722.96 (2129.09)3119.87)	272.21 5855.52 052.48-10916.97	3733.42 (3130.99)8413.75 (4708.08)	450.17 8203.63 3137.23-15685.23	5019.38 (4308.39)10654.12 (6126.83)	492.26 11280.43 3787.22-20453.38

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Non-breeding	3671.68 (3895.49)7161.5 1(9094.11)	8.34 10716.9512.3 7-29200.51	4950.84 (5171.77)9734.61 (9276.38)	50.09- 13863.7864 9.79- 25305.73	6317.71 (6497.71)11892. 88 (11371.73)	100.3- 17442.57607 .76-30827.12

Table 67. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3513.37 (2937.94)5410.7 7(4021.82)	448.3- 8041.25726. 89-12075.37	5157.82 (1809.02)7950. 06(5436.99)	1484.62- 8052.781163 .7-16391.79	6952.03 (5199.65)10748. 26(7256.11)	1260.25- 14320.82193 6.92- 21369.47
Breeding (full)	1605.58 (743.5)1948.44 (969.11)	504.67- 3021.9519.8 6-3924.71	2261.01 (1067.37)2743.5 9(1362.52)	785.02- 4039.54792. 64-5155	2981.84 (1489.56)3645. 64(1957.88)	939.88- 5535.91987. 22-7412.26
Autumn migration	3897.32 (4134.88)7161.51 (9094.11)	8.85- 11375.5712.3 7-29200.51	5241.48 (5475.37)9530.1 3(11593.54)	53.03- 14677.6394. 65- 34676.06	6705.21 (6896.26)10944 .78(12980.31)	106.45- 18512.44110. 7-39923.22
Winter	3243.71 (2671.66)5722.9 6(3119.87)	341.58- 7347.722052 .48- 10916.97	4765.69 (3996.69)8413. 75(4708.08)	574.64 10471.88313 7.23- 15685.23	6418.4 (5509.24)10654. 12(6126.83)	629.47- 14424.55378 7.22- 20453.38
Non-breeding	3897.32 (4134.88)7161.51 (9094.11)	8.85- 11375.5712.3 7-29200.51	5241.48 (5475.37)9734.6 1(9276.38)	53.03- 14677.6364 9.79- 25305.73	6952.03 (5199.65)11892. 88(11371.73)	1260.25- 14320.8260 7.76- 30827.12

Table 68. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4259.14 (3561.56)5410.7 7(4021.82)	543.46- 9748.13726. 89-12075.37	6247.04 (2191.03)7950.0 6(5436.99)	1798.13- 9753.31163.7 -16391.79	8415.17 (6293.98)10748 .26(7256.11)	1525.48- 17334.84193 6.92- 21369.47
Breeding (full)	1948.44 (902.26969.11)	612.44- 3667.2519.8 6-3924.71	2738.33 (1292.7)2743.59 (1362.52)	950.74- 4892.33792. 64-5155	3610.92 (1803.81)3645.6 4(1957.88)	1138.16- 6703.84987. 22-7412.26
Autumn migration	4717.84 (5005.41)7161.51 (9094.11)	10.71- 13770.4912. 37-29200.51	6349.58 (6632.92)9530.1 3(11593.54)	64.24- 1778094.65- 34676.06	8421.26 (8352.65)10944. 78(12980.31)	128.93- 22422110.7- 39923.22
Winter	3926.45 (3234)5722.96 (3119.87)	413.47- 8894.28205 2.48- 10916.97	5769.19 (4838.27)8413.7 5(4708.08)	695.65- 12676.94313 7.23- 15685.23	7776.08 (6674.6)10654.1 2(6126.83)	762.62- 17475.76378 7.22- 20453.38
Non-breeding	4717.84 (5005.41)7161.51 (9094.11)	10.71- 13770.4912. 37-29200.51	6349.58 (6632.92)9734. 61(9276.38)	64.24- 17780.6564 9.79- 25305.73	8415.17 (6293.98)11892. 88(11371.73)	1525.48- 17334.84607 .76-30827.12

Table 69. DBS - East & West. Seasonal peak abundance of Red-throated diver recorded on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.21 (7.6261)	0-25.2623
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0



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Ornithology Technical Appendix 12-5c Seabird peak seasonal abundances: birds in flight

Date: 22/11/2024

Tel: 0141 342 5404

Web: www.macarthurgreen.com

Address: 93 South Woodside Road | Glasgow | G20 6NT

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1 INTRODUCTION

This appendix provides tables of seabird peak abundance in each species-specific season, as defined in Furness (2015)¹ for each species recorded during baseline surveys for the DBS East and West Offshore Wind Farm [Projectsprojects](#) (March 2021 – February 2023).

Abundances were estimated using design-based methods and are summarised as central estimate (i.e. extrapolated from the number seen in the surveyed area to the whole area) and 95% confidence range, derived from 1,000 nonparametric bootstrap samples.

Appendix (a) provides the combined peak abundance of each species-specific season on the sea and in flight.

Appendix (b) provides the peak abundance of each species-specific season on the sea.

This appendix (c) provides the peak abundance of each species-specific season in flight.

¹ Furness, R.W. 2015. Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Report Number 164. 389 pp.

Table 1. DBS - East. Seasonal peak abundance of Arctic skua recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	4.15 (7.48)	0-24.91	4.15 (7.1)	0-24.93	4.2 (7.1)	0-25.19
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.15 (7.48)	0-24.91	4.15 (7.1)	0-24.93	4.2 (7.1)	0-25.19

Table 2. DBS - East. Seasonal peak abundance of Arctic tern recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	37.47 (42.05)	0-124.89	54.29 (57.75)	0-158.68	83.41 (87.5)	0-233.54
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 3. DBS - East. Seasonal peak abundance of Common gull recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	12.51 (10.59)	0-41.63	12.7 (18.54)	0-59.29	16.71 (14.25)	0-50.04

Table 4. DBS - East. Seasonal peak abundance of Common tern recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.16 (7.32)	0-24.98	8.35 (11.64)	0-33.41	8.34 (11.75)	0-41.7
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 5. DBS - East. Seasonal peak abundance of Fulmar recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.21 (19.6)	0-56.74	24.44 (28.9)	0-89.62	32.6 (37.06)	0-105.96
Breeding (full)	54.48 (30.71)	8.38-125.72	79.78 (39.09)	16.86-168.58	79.7 (39.14)	16.83-168.3
Autumn migration	33.42 (20.36)	0-75.35	83.58 (93.27)	0-326.15	104.45 (107.86)	0-351.15
Winter	37.99 (42.19)	0-118.19	63.52 (68.49)	0-186.33	80.27 (77.16)	0-211.62
Non-breeding	37.99 (42.19)	0-118.19	83.58 (93.27)	0-326.15	104.45 (107.86)	0-351.15

Table 6. DBS - East. Seasonal peak abundance of Gannet recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	12.49 (16.51)	0-49.95	16.69 (20.84)	0-66.74	32.6 (36.83)	0-105.96
Breeding (full)	207.91 (67.22)	108.17-349.16	325.45 (129.87)	150.28-567.33	503.96 (254.5)	200.1-940.97
Autumn migration	187.31 (80.26)	58.61-323.83	274.9 (78.62)	125.44-407.21	378.94 (99.03)	183.93-539.92
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 7. DBS - East. Seasonal peak abundance of Great black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.95 (19.53)	0-75.43	29.39 (21.38)	0-84.29	37.74 (22.85)	0-92.57
Breeding (full)	8.33 (11.49)	0-33.3	12.69 (18.42)	0-59.24	16.93 (22.32)	0-67.7
Autumn migration	4.22 (6.92)	0-25.33	4.49 (7.77)	0-26.92	24.97 (16.17)	0-59.25
Winter	0 (0)	0-0	4.07 (7.28)	0-24.44	16.3 (21.81)	0-65.2
Non-breeding	20.95 (19.53)	0-75.43	29.39 (21.38)	0-84.29	37.74 (22.85)	0-92.57

Table 8. DBS - East. Seasonal peak abundance of Great skua recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	4.2 (7.36)	0-25.21	4.2 (7.1)	0-25.19
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	4.1 (7.04)	0-24.62	4.09 (7.24)	0-24.55	4.09 (7.24)	0-24.55
Non-breeding	4.1 (7.04)	0-24.62	4.09 (7.24)	0-24.55	4.09 (7.24)	0-24.55

Table 9. DBS - East. Seasonal peak abundance of Guillemot recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	67.05 (32.47)	8.38-134.1	100.93 (61.2)	8.36-219.16	138.63 (89.34)	16.71-294.74
Breeding (full)	264.68 (185.04)	33.78-595.92	323.9 (229.93)	42.31-731.06	399.3 (291.49)	59.24-881.62
Post-breeding	66.94 (69.16) (0)	0-217.89	91.96 (94.78) 4.49 (6.18)	0-284.34 17.94	137.92 (141.77) 4.46 (6.19)	0-409.67 17.83
Winter	62.49 (45.09) 66.94 (69.16)	33.77-92.87 - 217.89	112.47 (31.36)	57.28-186.33	153.35 (48.14)	67.72-245.47
Non-breeding	67.05 (32.47)	8.38-134.1	112.47 (31.36)	57.28-186.33	153.35 (48.14)	67.72-245.47

Table 10. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	67.05 (32.47)	8.38-134.1	105.14 (63.75)	8.7-228.31	142.84 (92.05)	17.21-303.69
Breeding (full)	357.08 (249.65)	45.58-803.97	416.43 (295.61)	54.4-939.89	508.55 (371.25)	75.45-1122.85
Autumn migration Post-breeding	75.32 (77.81) (0)	0-245.14	96.15 (99.08) 4.49 (6.18)	0-297.27 17.94	150.44 (154.63) 4.46 (6.19)	0-446.84 17.83
Winter	95.55 (23.07)	51.63-142	153.68 (42.85)	78.26-254.59	227.55 (71.44)	100.49-364.25
Non-breeding	95.55 (23.07)	51.63-142	153.68 (42.85)	78.26-254.59	227.55 (71.44)	100.49-364.25

Table 11. DBS - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	67.05 (32.47)	8.38-134.1	105.14 (63.75)	8.7-228.31	142.84 (92.05)	17.21-303.69
Breeding (full)	357.08 (249.65)	45.58-803.97	416.43 (295.61)	54.4-939.89	508.55 (371.25)	75.45-1122.85
Autumn migration Post-breeding	75.32 (77.84) (0)	0-245.14 0	96.15 (99.08) 4.49 (6.18)	0-297.27 17.94	150.44 (154.63) 4.46 (6.19)	0-446.84 17.83
Winter	95.55 (23.07)	51.63-142	153.68 (42.85)	78.26-254.59	227.55 (71.44)	100.49-364.25
Non-breeding	95.55 (23.07)	51.63-142	153.68 (42.85)	78.26-254.59	227.55 (71.44)	100.49-364.25

Table 12. DBS - East. Seasonal peak abundance of Herring gull recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.19 (7.54)	0-25.14	4.21 (7.13)	0-25.29	4.21 (7.31)	0-25.25
Breeding (full)	0 (0)	0-0	0 (0)	0-0	4.17 (7.11)	0-25.01
Autumn migration	4.22 (7.43)	0-25.33	8.33 (8.34)	0-25.41	16.79 (16.11)	0-59.25
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.22 (7.43)	0-25.33	8.33 (8.34)	0-25.41	16.79 (16.11)	0-59.25

Table 13. DBS - East. Seasonal peak abundance of Kittiwake recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	444.2 (189.37)	209.53-921.92	613.28 (221.65)	325.89-1138.34	893.99 (365.79)	459.42-1699.88
Breeding (full)	1572.55 (663.76)	582.78-2652.27	2329.62 (666.67)	1235.52-3521.08	3302.55 (642.83)	2157.86-4483.68
Autumn migration	1229.37 (787.99)	354.58-2527.5	1807.58 (1200.72)	525.11-3936.09	2416.61 (1569.62)	744.89-5023.93
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	1229.37 (787.99)	354.58-2527.5	1807.58 (1200.72)	525.11-3936.09	2416.61 (1569.62)	744.89-5023.93

Table 14. DBS - East. Seasonal peak abundance of Lesser black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.33 (13.81)	0-49.96	8.43 (8.22)	0-25.32	8.45 (8.21)	0-25.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.15 (6.82)	0-24.92
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.15 (6.82)	0-24.92

Table 15. DBS - East. Seasonal peak abundance of Little gull recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	33.59 (48.51)	0-142.75	33.55 (48.24)	0-142.58

Table 16. DBS - East. Seasonal peak abundance of Manx shearwater recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.19 (7.11)	0-25.14	4.21 (7.36)	0-25.28	4.24 (7.68)	0-25.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.16 (7.14)	0-24.98	4.18 (7.34)	0-25.06	4.17 (7.27)	0-25.02

Table 17. DBS - East. Seasonal peak abundance of Puffin recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19

Table 18. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19

Table 19. DBS - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.2 (7.11)	0-25.18	4.2 (7.43)	0-25.21	4.2 (7.13)	0-25.19

Table 20. DBS - East. Seasonal peak abundance of Razorbill recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	33.57 (38.56)	0-109.11	67.22 (79.8)	0-252.09	79.77 (87.16)	0-235.1
Breeding (full)	20.78 (23.02)	0-66.51	20.86 (27.25)	0-83.43	37.48 (27.42)	8.34-99.93
Autumn migration	159.07 (172.92)	0-460.47	451.6 (509.9)	0-1488.6	627.02 (628.85)	0-1580.15
Winter	28.37 (33.39)	0-97.27	32.59 (38.67)	0-122.21	40.75 (44.88)	0-130.41
Non-breeding	159.07 (172.92)	0-460.47	451.6 (509.9)	0-1488.6	627.02 (628.85)	0-1580.15

Table 21. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	46.16 (53.02)	0-150.03	88.23 (104.73)	0-330.87	104.95 (114.68)	0-309.34
Breeding (full)	20.78 (23.02)	0-66.51	20.86 (27.25)	0-83.43	41.65 (30.47)	9.26-111.04
Autumn migration	175.82 (191.13)	0-508.94	480.87 (542.95)	0-1585.08	660.43 (662.36)	0-1664.36
Winter	28.37 (33.39)	0-97.27	36.66 (43.5)	0-137.48	48.9 (53.86)	0-156.49
Non-breeding	175.82 (191.13)	0-508.94	480.87 (542.95)	0-1585.08	660.43 (662.36)	0-1664.36

Table 22. DBS - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Area, Array Area and 2km buffer and Array Area and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	46.16 (53.02)	0-150.03	88.23 (104.73)	0-330.87	104.95 (114.68)	0-309.34
Breeding (full)	20.78 (23.02)	0-66.51	20.86 (27.25)	0-83.43	41.65 (30.47)	9.26-111.04
Autumn migration	175.82 (191.13)	0-508.94	480.87 (542.95)	0-1585.08	660.43 (662.36)	0-1664.36
Winter	28.37 (33.39)	0-97.27	36.66 (43.5)	0-137.48	48.9 (53.86)	0-156.49
Non-breeding	175.82 (191.13)	0-508.94	480.87 (542.95)	0-1585.08	660.43 (662.36)	0-1664.36

Table 23. DBS - West. Seasonal peak abundance of Arctic skua recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	4.25 (7.15)	0-25.52	4.25 (7.27)	0-25.51	4.26 (7.58)	0-25.56
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.25 (7.15)	0-25.52	4.25 (7.27)	0-25.51	4.26 (7.58)	0-25.56

Table 24. DBS - West. Seasonal peak abundance of Arctic tern recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	21.27 (30.2)	0-93.58	34.01 (37.23)	0-102.04	59.64 (67.42)	0-187.66
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 25. DBS - West. Seasonal peak abundance of Common gull recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	42.54 (53.17)	0-170.15	46.77 (55.95)	0-178.57	59.64 (68.18)	0-204.49

Table 26. DBS - West. Seasonal peak abundance of Common tern recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.37 (8.49)	0-25.25	8.49 (8.47)	0-25.6	8.45 (8.34)	0-25.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 27. DBS - West. Seasonal peak abundance of Fulmar recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8.55 (11.87)	0-34.2	21.44 (10.79)	0-43.1	25.82 (18.91)	0-69.16
Breeding (full)	41.81 (38)	0-117.25	62.65 (41.07)	8.27-133.99	92.16 (58.23)	8.29-201.67
Autumn migration	21.13 (13.62)	0-50.76	50.64 (39.05)	0-126.61	63.39 (52.83)	0-169.05
Winter	23.21 (15.77)	0-59.13	42.43 (23.47)	8.55-88.78	80.92 (56)	8.5-196.64
Non-breeding	23.21 (15.77)	0-59.13	50.64 (39.05)	0-126.61	80.92 (56)	8.5-196.64

Table 28. DBS - West. Seasonal peak abundance of Gannet recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	25.65 (28.72)	0-85.51	47.41 (52.27)	0-146.55	56.2 (60.08)	0-164.26
Breeding (full)	340.02 (205.85)	91.98-714.44	503.13 (297.92)	168.11-1064.19	648.44 (373.78)	228.05-1278.91
Autumn migration	221.36 (88.67)	68.99-379.15	328.32 (169.38)	78.92-624.51	376.15 (140.77)	169.06-608.58
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. DBS - West. Seasonal peak abundance of Great black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.19 (7.39)	0-25.13	16.97 (23.26)	0-84.83	21.08 (27.67)	0-92.77
Breeding (full)	0 (0)	0-0	17.09 (29.81)	0-102.56	17.15 (28.53)	0-102.88
Autumn migration	4.24 (7.2)	0-25.45	12.73 (16.33)	0-50.9	12.75 (16.56)	0-51
Winter	0 (0)	0-0	0 (0)	0-0	17.29 (24.43)	0-86.46
Non-breeding	4.24 (7.2)	0-25.45	16.97 (23.26)	0-84.83	21.08 (27.67)	0-92.77

Table 30. DBS - West. Seasonal peak abundance of Great northern diver recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 31. DBS - West. Seasonal peak abundance of Great skua recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	8.52 (13.91)	0-51.12
Autumn migration	4.26 (7.47)	0-25.53	8.51 (8.35)	0-25.6	8.53 (8.53)	0-25.66
Winter	4.93 (8.89)	0-29.57	4.93 (8.48)	0-29.59	14.08 (12.75)	0-39.33
Non-breeding	4.93 (8.89)	0-29.57	8.51 (8.35)	0-25.6	14.08 (12.75)	0-39.33

Table 32. DBS - West. Seasonal peak abundance of Guillemot recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	83.62 (78.51)	0-242.88	107.95 (73.62)	16.97-247.83	172.15 (167.26)	0-478.96
Breeding (full)	157.64 (134.44)	8.26-436.66	232.92 (191.08)	16.78-589.02	330.69 (234.25)	41.87-725.17
Post-breeding	33.84 (40.14) 21.21 (28.69)	0-118.45 93.3	54.86 (58.50) 9.9 (59.21)	0- 160.37 169.6 8	63.39 (73.25) 51 (59.8)	0- 211.52 169.99
Winter	151.74 (112.92)	9.86-387.57	211.87 (130.01)	39.46-453.41	254.6 (149.52)	58.99-518.78
Non-breeding	151.74 (112.92)	9.86-387.57	211.87 (130.01)	39.46-453.41	254.6 (149.52)	58.99-518.78

Table 33. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	104.28 (97.92)	0-302.9	157.74 (107.58)	24.79-362.14	228.64 (179.03)	25.08-554.86
Breeding (full)	191.28 (163.13)	10.02-529.85	284.34 (233.27)	20.48-719.07	381.97 (270.58)	48.36-837.63
Post-breeding	59.22 (70.25) 33.93 (45.91)	0-207 149.28	88.63 (95.14) 67.87 (78.94)	0- 259.06 226.2 3	92.98 (107.43) 72.24 (84.71)	0- 310.24 240.8 1
Winter	191.8 (142.73)	12.46-489.89	256.6 (157.46)	47.79-549.16	321.04 (188.53)	74.39-654.16
Non-breeding	191.8 (142.73)	12.46-489.89	256.6 (157.46)	47.79-549.16	321.04 (188.53)	74.39-654.16

Table 34. DBS - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	104.28 (97.92)	0-302.9	157.74 (107.58)	24.79-362.14	228.64 (179.03)	25.08-554.86
Breeding (full)	191.28 (163.13)	10.02-529.85	284.34 (233.27)	20.48-719.07	381.97 (270.58)	48.36-837.63
Post-breeding	59.22 (70.25) 33.93 (45.91)	0-207 149.28	88.63 (95.14) 67.87 (78.94)	0- 259.06 226.2 3	92.98 (107.43) 72.24 (84.71)	0- 310.24 240.8 1
Winter	191.8 (142.73)	12.46-489.89	256.6 (157.46)	47.79-549.16	321.04 (188.53)	74.39-654.16
Non-breeding	191.8 (142.73)	12.46-489.89	256.6 (157.46)	47.79-549.16	321.04 (188.53)	74.39-654.16

Table 35. DBS - West. Seasonal peak abundance of Herring gull recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.53)	0-25.22	4.24 (7.41)	0-25.45	4.22 (7.19)	0-25.3
Breeding (full)	4.29 (7.33)	0-25.71	8.43 (13.76)	0-50.57	12.78 (17.89)	0-59.64
Autumn migration	8.43 (11.88)	0-33.7	8.55 (12.25)	0-42.77	23.25 (19.37)	0-68.82
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.43 (11.88)	0-33.7	8.55 (12.25)	0-42.77	23.25 (19.37)	0-68.82

Table 36. DBS - West. Seasonal peak abundance of Kittiwake recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	428.92 (169.62)	181.24-770.52	667.36 (293.62)	289.32-1197.56	932.9 (336.99)	464.48-1504.11
Breeding (full)	1654.64 (2267.84)	0-7880.47	2063.52 (920.74)	882.38-4147.83	2598.76 (1175.52)	1038.9-4972.62
Autumn migration	884.35 (619.61)	187.26-1836.75	1511.48 (1217.06)	236.75-3379.63	2019.68 (1538.78)	383.45-4227.02
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	884.35 (619.61)	187.26-1836.75	1511.48 (1217.06)	236.75-3379.63	2019.68 (1538.78)	383.45-4227.02

Table 37. DBS - West. Seasonal peak abundance of Lesser black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.2 (7.11)	0-25.22	4.19 (6.93)	0-25.14	4.21 (7.13)	0-25.24
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 38. DBS - West. Seasonal peak abundance of Little gull recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	17.07 (30.5)	0-102.41	17.11 (28.45)	0-102.63

Table 39. DBS - West. Seasonal peak abundance of Puffin recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72
Non-breeding	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72

Table 40. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72
Non-breeding	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72

Table 41. DBS - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72
Non-breeding	0 (0)	0-0	0 (0)	0-0	8.45 (14.32)	0-50.72

Table 42. DBS - West. Seasonal peak abundance of Razorbill recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	62.68 (59.81)	0-201.01	66.89 (58.4)	0-184.24	97.6 (51.13)	8.63-217.73
Breeding (full)	63.02 (81.73)	0-268.96	62.86 (75.76)	0-234.62	75.74 (85.38)	0-269.24
Autumn migration	164.98 (220.64)	0-702.42	173.03 (222.15)	0-700.57	223.99 (254.22)	0-727.13
Winter	58.98 (69.3)	0-210.64	91.14 (84.84)	0-273.76	111.89 (103.46)	0-314.67
Non-breeding	164.98 (220.64)	0-702.42	173.03 (222.15)	0-700.57	223.99 (254.22)	0-727.13

Table 43. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	79.15 (75.53)	0-253.84	87.61 (76.48)	0-241.31	118.66 (62.16)	10.5-264.73
Breeding (full)	63.02 (81.73)	0-268.96	67.05 (80.81)	0-250.26	79.95 (90.13)	0-284.2
Autumn migration	279.19 (373.39)	0-1188.71	278.54 (357.6)	0-1127.75	333.87 (378.93)	0-1083.83
Winter	71.62 (84.15)	0-255.77	103.97 (96.79)	0-312.3	137.4 (127.06)	0-386.43
Non-breeding	279.19 (373.39)	0-1188.71	278.54 (357.6)	0-1127.75	333.87 (378.93)	0-1083.83

Table 44. DBS - West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	79.15 (75.53)	0-253.84	87.61 (76.48)	0-241.31	118.66 (62.16)	10.5-264.73
Breeding (full)	63.02 (81.73)	0-268.96	67.05 (80.81)	0-250.26	79.95 (90.13)	0-284.2
Autumn migration	279.19 (373.39)	0-1188.71	278.54 (357.6)	0-1127.75	333.87 (378.93)	0-1083.83
Winter	71.62 (84.15)	0-255.77	103.97 (96.79)	0-312.3	137.4 (127.06)	0-386.43
Non-breeding	279.19 (373.39)	0-1188.71	278.54 (357.6)	0-1127.75	333.87 (378.93)	0-1083.83

Table 45. DBS - West. Seasonal peak abundance of Red-throated diver recorded in flight, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 46. DBS - East & West. Seasonal peak abundance of Arctic skua recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	8.4-25 (7.08) (14.63)	0- 25-2550.43	8.4-21 (7.2) (14.37)	0- 25-2850.44	8.39 (8.3346) (14.68)	0- 25-2950.75
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.4-25 (7.08) (14.63)	0- 25-2550.43	8.4-21 (7.2) (14.37)	0- 25-2850.44	8.39 (8.3346) (14.68)	0- 25-2950.75

Table 47. DBS - East & West. Seasonal peak abundance of Arctic tern recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	58.74 (65.49 72.25)	0- 485.47 218.47	88.49 (91.44 94.98)	0- 235.97 260.72	143.32 (149.50 154.92)	0- 379.37 421.2
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 48. DBS - East & West. Seasonal peak abundance of Common gull recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	55.05 (56.74 63.76)	0- 485.47 211.78	58.95 (59.47 74.49)	0- 493.83 237.86	75.84 (75.76 .35 82.43)	0- 227.62 254.53

Table 49. DBS - East & West. Seasonal peak abundance of Common tern recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.37 (8.512.53 (15.81))	0-25.1950.23	8.44 (8.4416.84 (20.11))	0-25.3359.01	8.43 (11.8816.79 (20.09))	0-42.1567.16
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 50. DBS - East & West. Seasonal peak abundance of Fulmar recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	24.76 (28.5531.47)	0- 83.28 90.94	46.2 (34.5245.88 (39.69))	0- 117.34 132.72	58.85 (48.2342 (55.97))	0- 151.07 175.12
Breeding (full)	87.72 (35.996.29 (68.71))	25.18- 165.95 8.38- 242.97	125.61 (46.17)142.43 (80.16)	50.52- 225.27 25.13- 302.57	154.42 (65.72)171.86 (97.37)	50.04- 275.56 25.12- 369.97
Autumn migration	54.55 (27.3233.98)	8.37- 109.44 0- 126.11	134.37 (122.1822 (132.32))	8.37- 411.69 0- 452.76	168.08 (150.73)167.84 (160.69)	8.38- 470.78 0- 520.2
Winter	61.2 (52.6857.96)	0- 164.68 177.3 2	108.31 (89.07)105.95 (91.96)	8.37- 264.48 55- 275.11	161.96 (127.2219 (133.16))	16.68- 373.24 8.5- 408.26
Non-breeding	61.2 (52.6857.96)	0- 164.68 177.3 2	134.37 (122.1822 (132.32))	8.37- 411.69 0- 452.76	168.08 (150.73)185.37 (163.86)	8.38- 470.78 5- 547.79

Table 51. DBS - East & West. Seasonal peak abundance of Gannet recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	37.81 (40.538.14 (45.23))	0- 108.27 135.4 6	62.84 (67.664.1 (73.11))	0- 184.34 213.2 9	88.13 (92.448 (96.91))	0- 243.42 70.22
Breeding (full)	547.92 (256.27 93 (273.07))	233.56- 986200.15- 1063.6	828.2 (410.65 58 (427.79))	351.86- 1530.13318.3 9-1631.52	1151.69 (610.67)1152.4 (628.28)	461.57- 2084.3428.1 5-2219.88
Autumn migration	407.09 (54.5)408.67 (168.93)	309.53- 513.39127.6- 702.98	561.98 (84.69)603.22 (248)	403.26- 739.37204.3 6-1031.72	755.49 (106.48 09 (239.8))	578.21 992.23 52.99 -1148.5
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 52. DBS - East & West. Seasonal peak abundance of Great black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	20.95 (19.3625.14 (26.92))	0- 74.68 100.56	46.16 (28.84 36 (44.64))	0- 109.46 169.1 2	58.65 (33.24 82 (50.52))	8.35 134.30- 185.34
Breeding (full)	8.33 (11.6249)	0-33.673	17.04 (29.7478 (48.23))	0- 102.22 161.8	25.25 (31.1934.08 (50.85))	0- 104.02 170.58
Autumn migration	4.24 (7.48.46 (14.12))	0- 26.15 50.78	17.44 (21.22 (24.1))	0- 61.03 77.82	26.17 (16.8537.72 (32.73))	0- 63.72 110.25
Winter	0 (0)	0-0	4.1907 (7.4928)	0- 25.14 24.44	33.57 (40.54 59 (46.24))	0- 125.91 51.66
Non-breeding	20.95 (25.19.36 (26.73))	0- 74.68 100.88	46.16 (28.84 36 (44.64))	0- 109.46 169.1 2	58.65 (33.24 82 (50.52))	8.35 134.30- 185.34

Table 53. DBS - East & West. Seasonal peak abundance of Great northern diver recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 54. DBS - East & West. Seasonal peak abundance of Great skua recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	4.472 (7.3436)	0-25.0521	12.64 (13.1872) (21.01)	0- 50.5876.31
Autumn migration	4.26 (7.3947)	0-25.2953	8.5951 (8.4435)	0-26.4625.6	8.5853 (8.5953)	0-26.425.66
Winter	9.03 (8.9715.93)	0-27.4554.19	8.74 (8.839.02) (15.72)	0-27.3654.14	18.17.45 (12.2) (19.99)	0- 45.5263.88
Non-breeding	9.03 (8.9715.93)	0-27.4554.19	8.74 (8.8312.6) (15.59)	0-27.3650.15	18.17.45 (12.2) (19.99)	0- 45.5263.88

Table 55. DBS - East & West. Seasonal peak abundance of Guillemot recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	124.74 (69.99)171.33 (130.39)	16.79 257.238.38- 437	209.04 (125.24)262.88 (171.33)	42.1 425.5233.49 -590.45	292.57 (204.42)371.48 (271.08)	41.97 648.0542.29 -858.55
Breeding (full)	422.32 (302.63)548.36 (412.78)	6655.6 1333.82- 944.04	557.76 (404.7)700.77 (528.88)	92.68 1211.7274.88 -1658.96	730.92 (512.38)890.52 (641.83)	134.69 1498.49123. 81-1960.48
Autumn migration Post-breeding	100.78 (104.13)33.93 (45.91)	0- 294.57149.2 8	147.02 (147.06)72.36 (85.12)	0- 411.69244.17	204.75 (205.24)76.7 (90.9)	0- 554.84258.6 4
Winter	214.22 (107.84)287.35 (165.8)	73.19 440.7264.0 9-631.89	322.78 (124.77)410.28 (200.31)	136.8 560.55126.0 5-803.75	406.14 (183.15)548.59 (259.97)	163.86 717.4174.88- 1018.41
Non-breeding	214.22 (107.84)287.35 (165.8)	73.19 440.7264.0 9-631.89	322.78 (124.77)410.28 (200.31)	136.8 560.55126.0 5-803.75	406.14 (183.15)548.59 (259.97)	163.86 717.4174.88- 1018.41

Table 56. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	141.37 (79.32)171.33 (130.39)	19.03 294.58.38- 437	267.49 (160.24)262.88 (171.33)	53.88 544.5833.49 -590.45	371.98 (256.09)48 (271.08)	53.36 785.842.29- 858.55
Breeding (full)	548.37 (392.96)36 (412.78)	86.77 1221.8755.6- 1333.82	710.91 (515.81)700.77 (528.88)	118.12 1544.4274.8 8-1658.96	896.64 (628.53)890.52 (641.83)	165.22 1838.18123.8 1-1960.48
Autumn migration Post-breeding	134.54 (135)33.93 (45.91)	0- 393.22149.2 8	180.63 (180.67)72.36 (85.12)	0- 505.84244.1 7	239.57 (243.71)76.7 (90.9)	0- 658.85258.6 4
Winter	287.34 (144.65)35 (165.8)	98.17 594.1564.09- 631.89	399.97 (154.6)410.28 (200.31)	169.51 694.58126.0 5-803.75	546.83 (246.54)8.59 (259.97)	220.63 965.9174.88 -1018.41
Non-breeding	287.34 (144.65)35 (165.8)	98.17 594.1564.09- 631.89	399.97 (154.6)410.28 (200.31)	169.51 694.58126.0 5-803.75	546.83 (246.54)8.59 (259.97)	220.63 965.9174.88 -1018.41

Table 57. DBS - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	441.37 (79.32)171.33 (130.39)	19.03- 291.58.38- 437	267.49 (160.24)262.88 (171.33)	53.88- 544.5833.49 -590.45	371.98 (256.09)48 (271.08)	53.36- 785.842.29- 858.55
Breeding (full)	548.37 (392.96)36 (412.78)	86.77- 1224.8755.6- 1333.82	710.91 (515.81)700.77 (528.88)	118.12- 1544.4274.8 8-1658.96	896.64 (628.53)890.52 (641.83)	165.22- 1838.18123.8 1-1960.48
Autumn migration Post-breeding	134.54 (135)33.93 (45.91)	0- 393.22149.2 8	180.63 (180.67)72.36 (85.12)	0- 505.81244.1 7	239.57 (243.71)76.7 (90.9)	0- 658.85258.6 4
Winter	287.34 (144.65)35 (165.8)	98.17- 591.1564.09- 631.89	399.97 (154.6)410.28 (200.31)	169.51- 694.58126.0 5-803.75	546.83 (2465)48.59 (259.97)	220.63- 965.9174.88 -1018.41
Non-breeding	287.34 (144.65)35 (165.8)	98.17- 591.1564.09- 631.89	399.97 (154.6)410.28 (200.31)	169.51- 694.58126.0 5-803.75	546.83 (2465)48.59 (259.97)	220.63- 965.9174.88 -1018.41

Table 58. DBS - East & West. Seasonal peak abundance of Herring gull recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	8.39 (8.57)15.07	0- 25.1850.36	8.38 (8.345 (14.54)	0- 25.2650.74	8.37 (8.28)43 (14.5)	0-25.1850.55
Breeding (full)	4.29 (7.29)33	0-25.5971	8.43 (13.76)	0-50.57	12.65 (17.7)16.95 (25)	0- 59.0484.65
Autumn migration	12.65 (11.05)19.31	0-36.659.03	17.11 (14.7)16.88 (20.59)	0-50.268.18	39.82 (27.19)40.04 (35.48)	0- 109.24128.0 7
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	12.65 (11.05)19.31	0-36.659.03	17.11 (14.7)16.88 (20.59)	0-50.268.18	39.82 (27.19)40.04 (35.48)	0- 109.24128.0 7

Table 59. DBS - East & West. Seasonal peak abundance of Kittiwake recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	834.15 (238.79)873.12 (358.99)	512.08- 1394.04390. 77-1692.44	1210.73 (476.51)1280.64 (515.27)	608.1- 1981.27615.2 1-2335.9	1706.92 (589.74)1826.8 9(702.78)	942.36- 2622.03923. 9-3203.99
Breeding (full)	2703.86 (3174.67)3227.1 9(2931.6)	16.67- 9999.84582 .78-10532.74	3435.95 (1143.96)4393.1 4(1587.41)	1811.4- 5417.872117. 9-7668.91	5100.96 (1001.99)5901.3 1(1818.35)	3451.18- 7033.13196. 76-9456.3
Autumn migration	2113.72 (1374.871407.6)	612.99- 4132.79541. 84-4364.25	3335.51 (2358.18)3319.0 6(2417.78)	848.18- 6768.6761.8 6-7315.72	4456.32 (3049.82)4436. 29(3108.4)	1238.08- 8784.371128 .34-9250.95
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	2113.72 (1374.871407.6)	612.99- 4132.79541. 84-4364.25	3335.51 (2358.18)3319.0 6(2417.78)	848.18- 6768.6761.8 6-7315.72	4456.32 (3049.82)4436. 29(3108.4)	1238.08- 8784.371128 .34-9250.95

Table 60. DBS - East & West. Seasonal peak abundance of Lesser black-backed gull recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.33(13.9712.53 (20.92)	0-50.575.18	8.45(8.2412.62 (15.15)	0- 25.4350.46	8.45(8.2412.66 (15.34)	0-25.3950.7
Autumn migration	0 (0)	0-0	0 (0)	0-0	4.4915(6.8882)	0-25.4424.92
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	4.4915(6.8882)	0-25.4424.92

Table 61. DBS - East & West. Seasonal peak abundance of Little gull recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	50.66 (79 (66.94, 01))	0- 203.47 245.1 6	50.82 (65.42 66 (76.69))	0- 244.75 245.21

Table 62. DBS - East & West. Seasonal peak abundance of Manx shearwater recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	4.19 (7.0911)	0-25.0614	4.21 (7.36)	0-25.28	4.2224 (7.6468)	0-25.3446
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	4.16 (7.2214)	0- 25.25 24.98	4.2118 (7.4134)	0-25.2806	4.2217 (7.3527)	0-25.2902

Table 63. DBS - East & West. Seasonal peak abundance of Puffin recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	4.262 (7.2313)	0-25.5419
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.4445 (14.2432)	0-50.4472
Non-breeding	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	8.41 (14.2412.65 (21.45))	0-50.4475.91

Table 64. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	4.262 (7.2313)	0-25.5419
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.4445 (14.2432)	0-50.4472
Non-breeding	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	8.41 (14.2412.65 (21.45))	0-50.4475.91

Table 65. DBS - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	4.262 (7.2313)	0-25.5419
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	8.4445 (14.2432)	0-50.4472
Non-breeding	4.2 (7.4911)	0-25.4318	4.272 (7.5443)	0-25.621	8.41 (14.2412.65 (21.45))	0-50.4475.91

Table 66. DBS - East & West. Seasonal peak abundance of Razorbill recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	75.16 (74.58)125.31 (128.55)	0- 225.44403.8 7	93.58 (70.39)175.84 (181.21)	0- 264.48572.1 8	178.17 (92.34)223.61 (176.84)	16.84- 340.5710.5- 574.07
Breeding (full)	83.8 (97.15104.75)	0- 309.29335.4 7	83.62 (93.6)87.91 (108.06)	0- 284.29333.6 9	113.04 (104.4)121.6 (120.6)	8.39- 334.839.26- 395.24
Autumn migration	324.05 (361.69)455.01 (564.52)	0- 1052.041697 .65	625.94 (682.19)759.41 (900.55)	0- 1890.642712 .83	853.27 (858.47)994.3 (1041.29)	0- 2143.932748 .19
Winter	67.18 (75.87)99.99 (117.54)	0- 224.52353.0 4	96.97 (90.99)140.63 (140.29)	0- 284.67449.7 8	134.23 (126.04)186.3 (180.92)	0- 367.04542.9 2
Non-breeding	324.05 (361.69)455.01 (564.52)	0- 1052.041697 .65	625.94 (682.19)759.41 (900.55)	0- 1890.642712 .83	853.27 (858.47)994.3 (1041.29)	0- 2143.932748 .19

Table 67. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	91.64 (87.27)125.31 (128.55)	0- 274.86403.8 7	119.07 (89.56)175.84 (181.21)	0- 336.52572.1 8	220.55 (114.3)223.61 (176.84)	20.84- 421.5710.5- 574.07
Breeding (full)	83.8 (97.15104.75)	0- 309.29335.4 7	87.91.98 (102.96)(108.06)	0- 312.71333.69	121.42(112.146 (120.6)	9.01- 359.6526- 395.24
Autumn migration	455.01 (507.87564.52)	0- 1477.21697. 65	764.57 (833.28)759.41 (900.55)	0- 2309.382712 .83	1000.37 (1006.47)994.3 (1041.29)	0- 2513.542748 .19
Winter	88.03(99.4199 (117.54)	0- 294.17353.0 4	122.07 (114.54)140.63 (140.29)	0- 358.35449.7 8	175.94 (165.21)186.3 (180.92)	0- 481.09542.9 2
Non-breeding	455.01 (507.87564.52)	0- 1477.21697. 65	764.57 (833.28)759.41 (900.55)	0- 2309.382712 .83	1000.37 (1006.47)994.3 (1041.29)	0- 2513.542748 .19

Table 68. DBS - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	91.64 (87.27)125.31 (128.55)	0- 274.86403.8 7	119.07 (89.56)175.84 (181.21)	0- 336.52572.1 8	220.55 (114.3)223.61 (176.84)	20.84- 421.5710.5- 574.07
Breeding (full)	83.8 (97.15104.75)	0- 309.29335.4 7	87.91.98 (102.96)(108.06)	0- 312.71333.69	121.42(112.146 (120.6)	9.01- 359.6526- 395.24
Autumn migration	455.01 (507.87564.52)	0- 1477.21697. 65	764.57 (833.28)759.41 (900.55)	0- 2309.382712 .83	1000.37 (1006.47)994.3 (1041.29)	0- 2513.542748 .19
Winter	88.03(99.4199 (117.54)	0- 294.17353.0 4	122.07 (114.54)140.63 (140.29)	0- 358.35449.7 8	175.94 (165.21)186.3 (180.92)	0- 481.09542.9 2

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Non-breeding	455.01 (507.87564.52)	0- 1477.21697. 65	764.57 (833.28)759.41 (900.55)	0- 2309.382712 .83	1000.37 (1006.47)994.3 (1041.29)	0- 2513.542748 .19

Table 69. DBS - East & West. Seasonal peak abundance of Red-throated diver recorded in flight, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffers and Array Areas and 4km buffers.

Season	Abundance					
	Array Area		Array Area & 2km buffer		Array Area and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0