



FIVE ESTUARIES OFFSHORE WIND FARM ENVIRONMENTAL STATEMENT

VOLUME 6, PART 5, ANNEX 4.4: SEABIRD ABUNDANCES BY SURVEY

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Seabird abundances by survey

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1 INTRODUCTION

This annex provides tables of seabird abundance in each survey for each species recorded during baseline surveys for the Five Estuaries Offshore Windfarm (VE) (March 2019 – February 2021).

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.

Table 1. Five Estuaries North. Abundance of Black-headed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		7.04 (5.76)	0-21.11	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		7.04 (5.72)	0-21.11	0.81
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		20.27 (10.8)	0-40.53	0.53	47.29 (19.2)	13.51-81.06	0.41
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		6.74 (4.75)	0-13.48	0.71
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 2. Five Estuaries North. Abundance of Common gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		7.01 (5.7)	0-21.04	0.81
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		6.77 (4.62)	0-13.53	0.68
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		6.72 (5.64)	0-20.15	0.84	6.72 (5.73)	0-20.15	0.85
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	6.71 (5.56)	0-20.14	0.83	6.71 (5.41)	0-20.14	0.81	6.71 (5.65)	0-20.14	0.84
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	6.74 (5.5)	0-20.21	0.82	6.74 (5.63)	0-20.21	0.84	6.74 (5.66)	0-20.21	0.84
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		6.73 (5.25)	0-13.45	0.78	13.45 (6.68)	0-26.91	0.50

Table 3. Five Estuaries North. Abundance of Common tern recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	7.04 (5.47)	0-14.07	0.78	7.04 (5.49)	0-21.11	0.78	7.04 (5.75)	0-21.11	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 4. Five Estuaries North. Abundance of Fulmar recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	21.08 (12.01)	0-49.18	0.57	28.1 (13.53)	7.03-56.21	0.48	42.15 (13.09)	14.05-70.26	0.31
Apr-2019	7.01 (5.81)	0-21.04	0.83	7.01 (5.5)	0-21.04	0.78	14.03 (8.22)	0-28.06	0.59
May-2019	21.17 (8.92)	7.06-35.28	0.42	35.28 (14.07)	14.11-63.51	0.40	49.4 (17.3)	14.11-84.68	0.35
Jun-2019	14.23 (11.92)	0-42.68	0.84	14.23 (11.53)	0-42.68	0.81	21.34 (12.48)	0-42.86	0.58
Jul-2019	42.12 (32.48)	0-112.48	0.77	42.12 (31.45)	0-112.31	0.75	42.12 (31.19)	0-112.31	0.74
Aug-2019	0 (0)	0-0		0 (0)	0-0		14.11 (7.04)	0-28.23	0.50
Sep-2019	0 (0)	0-0		0 (0)	0-0		7.04 (5.79)	0-21.11	0.82
Oct-2019	0 (0)	0-0		7.02 (5.14)	0-14.05	0.73	7.02 (5.03)	0-14.05	0.72
Nov-2019	0 (0)	0-0		7.04 (5.63)	0-21.11	0.80	7.04 (5.73)	0-21.11	0.81
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	6.95 (5.81)	0-20.86	0.83	6.95 (5.54)	0-20.86	0.80	20.86 (8.93)	6.95-41.72	0.43
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		6.73 (5.27)	0-13.47	0.78	13.47 (7.36)	0-26.93	0.55
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		6.82 (4.36)	0-13.64	0.64
Jun-2020	6.75 (5.58)	0-20.25	0.83	6.75 (5.61)	0-20.25	0.83	13.5 (5.83)	0-20.25	0.43
Jul-2020	0 (0)	0-0		6.76 (5.37)	0-20.27	0.80	13.51 (5.47)	0-20.27	0.40
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		6.73 (4.25)	0-13.45	0.63
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		6.75 (4.39)	0-13.5	0.65
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 5. Five Estuaries North. Abundance of Gannet recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	35.13 (22.64)	0-84.31	0.64	56.21 (24.91)	14.05-105.56	0.44	105.39 (31.11)	49.18-168.62	0.30
Apr-2019	7.01 (5.67)	0-21.04	0.81	63.13 (22.43)	21.04-105.22	0.36	98.21 (28.99)	42.09-147.31	0.30
May-2019	0 (0)	0-0		14.11 (7.83)	0-28.23	0.56	14.11 (7.64)	0-28.23	0.54
Jun-2019	21.34 (10.17)	6.94-42.68	0.48	21.34 (9.98)	0-42.68	0.47	35.57 (10.61)	14.23-56.91	0.30
Jul-2019	28.08 (20.03)	0-70.19	0.71	28.08 (19.61)	0-70.19	0.70	35.1 (20.48)	0-84.23	0.58
Aug-2019	91.74 (41.28)	14.11-176.42	0.45	211.71 (65.08)	98.62-345.79	0.31	352.84 (65.8)	225.82-479.87	0.19
Sep-2019	0 (0)	0-0		42.22 (22.53)	7.04-91.47	0.53	49.25 (22.97)	7.04-91.47	0.47
Oct-2019	35.11 (19.51)	0-77.25	0.56	49.16 (21.9)	14.05-98.32	0.45	70.23 (21.07)	35.11-112.37	0.30
Nov-2019	204.04 (98.79)	42.21-408.07	0.48	457.32 (124.61)	232.18-717.64	0.27	724.68 (113.62)	492.5-942.96	0.16
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		6.72 (5.59)	0-20.15	0.83	13.43 (10.15)	0-33.58	0.76
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		6.71 (4.75)	0-13.42	0.71
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		6.75 (5.6)	0-20.25	0.83	27 (8.6)	13.5-40.5	0.32
Jul-2020	47.29 (25.02)	6.76-94.74	0.53	47.29 (24.88)	6.76-101.33	0.53	54.04 (24.59)	13.51-101.33	0.45
Aug-2020	6.76 (5.53)	0-20.29	0.82	13.53 (7.4)	0-27.05	0.55	20.29 (11.15)	0-40.58	0.55

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	20.18 (11.59)	0-47.08	0.57	40.35 (14.91)	13.45-67.26	0.37	53.8 (19.12)	20.18-94.16	0.36
Oct-2020	6.74 (5.54)	0-20.22	0.82	40.44 (15.32)	13.48-74.15	0.38	80.89 (19.09)	40.44-121.33	0.24
Nov-2020	80.88 (39.49)	6.74-155.01	0.49	330.25 (85.78)	168.49-492	0.26	424.6 (76.78)	289.64-579.62	0.18
Dec-2020	40.42 (28.92)	0-107.8	0.72	53.9 (35.52)	0-128.01	0.66	60.64 (35.42)	6.74-134.75	0.58
Jan-2021	0 (0)	0-0		6.75 (5.69)	0-20.26	0.84	6.75 (5.45)	0-20.26	0.81
Feb-2021	0 (0)	0-0		0 (0)	0-0		13.45 (7.09)	0-26.91	0.53

Table 6. Five Estuaries North. Abundance of Great black-backed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	7.03 (5.85)	0-21.08	0.83	7.03 (5.7)	0-21.08	0.81	7.03 (5.62)	0-21.08	0.80
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		7.11 (4.25)	0-14.23	0.60	7.11 (4.29)	0-14.23	0.60
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	7.02 (5.6)	0-21.07	0.80	7.02 (5.44)	0-21.07	0.77	14.05 (7.96)	0-28.09	0.57
Nov-2019	0 (0)	0-0		14.07 (7.01)	0-28.14	0.50	42.21 (13.23)	20.93-70.36	0.31
Dec-2019	13.53 (10.99)	0-40.59	0.81	20.3 (15.51)	0-54.12	0.76	27.06 (17.4)	0-60.89	0.64
Jan-2020	0 (0)	0-0		6.95 (5.59)	0-20.86	0.80	13.91 (8.22)	0-27.81	0.59
Feb-2020	0 (0)	0-0		6.72 (5.17)	0-13.43	0.77	6.72 (5.16)	0-13.43	0.77
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		60.67 (34.65)	0-121.33	0.57
Nov-2020	0 (0)	0-0		0 (0)	0-0		13.48 (7.22)	0-26.96	0.54
Dec-2020	20.21 (11.58)	0-40.42	0.57	53.9 (18.63)	20.21-87.58	0.35	222.33 (95.85)	67.37-437.92	0.43
Jan-2021	6.75 (5.52)	0-20.26	0.82	6.75 (5.49)	0-20.26	0.81	13.5 (7.28)	0-27.01	0.54
Feb-2021	0 (0)	0-0		6.73 (5.52)	0-20.18	0.82	6.73 (5.47)	0-20.18	0.81

Table 7. Five Estuaries North. Abundance of Guillemot recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	351.29 (122.29)	119.44-590.34	0.35	786.89 (142.09)	519.91-1081.97	0.18	1545.68 (184.89)	1194.39-1918.04	0.12
Apr-2019	189.4 (80.36)	42.09-343.72	0.42	441.92 (78.59)	294.62-596.25	0.18	953.99 (117.22)	736.54-1185.65	0.12
May-2019	0 (0)	0-0		21.17 (12.66)	0-49.4	0.60	35.28 (13.24)	14.11-63.51	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	14.04 (11.46)	0-42.12	0.82	56.15 (18.99)	14.04-84.23	0.34	70.19 (20.05)	35.1-112.31	0.29
Aug-2019	0 (0)	0-0		77.63 (34.94)	14.11-148.19	0.45	77.63 (36.32)	14.11-155.25	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		7.04 (5.31)	0-14.07	0.75
Oct-2019	7.02 (5.81)	0-21.07	0.83	21.07 (9.59)	0-42.14	0.46	77.25 (15.31)	49.16-105.34	0.20
Nov-2019	140.71 (54.45)	42.21-253.28	0.39	295.5 (69)	161.82-429.18	0.23	534.71 (58.73)	422.14-654.32	0.11
Dec-2019	81.18 (32.31)	20.3-148.84	0.40	263.85 (70.5)	128.54-399.15	0.27	385.62 (75.67)	243.55-534.46	0.20
Jan-2020	111.24 (36.03)	41.72-180.77	0.32	271.15 (57.77)	159.91-389.35	0.21	493.63 (64.32)	368.49-618.78	0.13
Feb-2020	355.94 (183.04)	47.01-718.6	0.51	926.79 (211.14)	490.26-1316.31	0.23	1813.29 (278.18)	1262.42-2350.73	0.15
Mar-2020	121.19 (55.47)	20.2-235.65	0.46	343.38 (57.63)	222.19-457.84	0.17	565.57 (77.79)	417.44-713.69	0.14
Apr-2020	40.27 (19.36)	6.71-80.55	0.48	67.12 (20.35)	26.85-107.4	0.30	194.66 (41.37)	120.82-281.91	0.21
May-2020	20.46 (16.51)	0-61.39	0.81	54.57 (27.19)	6.82-109.3	0.50	88.67 (29.6)	34.1-150.06	0.33
Jun-2020	0 (0)	0-0		20.25 (12.03)	0-47.25	0.59	20.25 (11.8)	0-47.25	0.58
Jul-2020	6.76 (5.54)	0-20.27	0.82	20.27 (9.95)	0-40.53	0.49	27.02 (11.39)	6.76-47.29	0.42
Aug-2020	0 (0)	0-0		6.76 (5.49)	0-20.29	0.81	6.76 (5.43)	0-20.29	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	114.33 (56.22)	13.45-228.67	0.49	181.59 (55.27)	80.71-289.2	0.30	255.57 (48.63)	168.14-349.73	0.19
Oct-2020	0 (0)	0-0		60.67 (38.28)	0-141.56	0.63	74.15 (38.7)	13.48-161.78	0.52
Nov-2020	26.96 (12.11)	0-47.18	0.45	67.4 (18.18)	33.7-101.1	0.27	114.58 (26.12)	67.4-161.75	0.23
Dec-2020	181.91 (82.99)	33.69-350.34	0.46	458.14 (94.3)	269.49-633.31	0.21	768.05 (70.01)	646.78-916.27	0.09
Jan-2021	81.03 (36.58)	13.5-155.3	0.45	168.8 (45.7)	81.03-256.58	0.27	303.85 (49.22)	209.32-411.88	0.16
Feb-2021	67.27 (34.35)	6.73-134.54	0.51	168.17 (45.14)	87.45-255.62	0.27	329.62 (63.8)	208.53-457.43	0.19

Table 8. Five Estuaries North. Abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	365.34 (127.18)	124.22-613.96	0.35	814.99 (147.17)	538.48-1120.62	0.18	1594.86 (190.78)	1232.39-1979.07	0.12
Apr-2019	210.44 (89.29)	46.76-381.91	0.42	512.07 (91.06)	341.38-690.89	0.18	1038.17 (127.56)	801.53-1290.27	0.12
May-2019	0 (0)	0-0		21.17 (12.66)	0-49.4	0.60	42.34 (15.89)	16.94-76.21	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	14.04 (11.46)	0-42.12	0.82	56.15 (18.99)	14.04-84.23	0.34	70.19 (20.05)	35.1-112.31	0.29
Aug-2019	0 (0)	0-0		84.68 (38.12)	15.4-161.67	0.45	84.68 (39.62)	15.4-169.36	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		14.07 (10.62)	0-28.14	0.75
Oct-2019	7.02 (5.81)	0-21.07	0.83	28.09 (12.79)	0-56.18	0.46	91.3 (18.09)	58.1-124.5	0.20
Nov-2019	154.79 (59.89)	46.44-278.61	0.39	337.71 (78.86)	184.94-490.49	0.23	591 (64.91)	466.58-723.19	0.11
Dec-2019	87.95 (35)	21.99-161.24	0.40	290.91 (77.73)	141.72-440.09	0.27	426.21 (83.64)	269.19-590.71	0.20
Jan-2020	152.96 (49.54)	57.36-248.56	0.32	312.87 (66.66)	184.51-449.24	0.21	577.07 (75.19)	430.77-723.36	0.13
Feb-2020	402.95 (207.22)	53.22-813.51	0.51	1040.96 (237.15)	550.65-1478.47	0.23	1961.04 (300.85)	1365.28-2542.27	0.15
Mar-2020	134.66 (61.63)	22.44-261.84	0.46	370.31 (62.14)	239.61-493.75	0.17	605.96 (83.35)	447.26-764.67	0.14
Apr-2020	40.27 (19.36)	6.71-80.55	0.48	67.12 (20.35)	26.85-107.4	0.30	194.66 (41.37)	120.82-281.91	0.21
May-2020	27.28 (22.01)	0-81.85	0.81	61.39 (30.59)	7.67-122.97	0.50	115.95 (38.7)	44.6-196.23	0.33
Jun-2020	0 (0)	0-0		20.25 (12.03)	0-47.25	0.59	20.25 (11.8)	0-47.25	0.58
Jul-2020	6.76 (5.54)	0-20.27	0.82	20.27 (9.95)	0-40.53	0.49	27.02 (11.39)	6.76-47.29	0.42
Aug-2020	0 (0)	0-0		6.76 (5.49)	0-20.29	0.81	6.76 (5.43)	0-20.29	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	114.33 (56.22)	13.45-228.67	0.49	181.59 (55.27)	80.71-289.2	0.30	262.3 (49.91)	172.56-358.93	0.19
Oct-2020	0 (0)	0-0		60.67 (38.28)	0-141.56	0.63	74.15 (38.7)	13.48-161.78	0.52
Nov-2020	26.96 (12.11)	0-47.18	0.45	80.88 (21.81)	40.44-121.32	0.27	155.01 (35.33)	91.18-218.84	0.23
Dec-2020	262.75 (119.87)	48.66-506.05	0.46	586.15 (120.65)	344.79-810.26	0.21	936.48 (85.36)	788.62-1117.21	0.09
Jan-2021	81.03 (36.58)	13.5-155.3	0.45	195.81 (53.01)	93.99-297.64	0.27	337.61 (54.69)	232.57-457.65	0.16
Feb-2021	74 (37.79)	7.4-147.99	0.51	195.08 (52.37)	101.44-296.52	0.27	410.34 (79.43)	259.6-569.45	0.19

Table 9. Five Estuaries North. Abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	477.75 (166.31)	162.44-802.87	0.35	1067.92 (192.84)	705.59-1468.39	0.18	2086.66 (249.6)	1612.42-2589.36	0.12
Apr-2019	273.57 (116.08)	60.79-496.48	0.42	673.41 (119.75)	448.94-908.57	0.18	1360.84 (167.21)	1050.65-1691.3	0.12
May-2019	0 (0)	0-0		28.23 (16.87)	0-65.86	0.60	56.45 (21.18)	22.58-101.62	0.38
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	21.06 (17.19)	0-63.17	0.82	70.19 (23.74)	17.55-105.29	0.34	91.25 (26.07)	45.63-146	0.29
Aug-2019	0 (0)	0-0		112.91 (50.83)	20.53-215.55	0.45	112.91 (52.82)	20.53-225.82	0.47
Sep-2019	0 (0)	0-0		0 (0)	0-0		21.11 (15.94)	0-42.22	0.75
Oct-2019	7.02 (5.81)	0-21.07	0.83	35.11 (15.98)	0-70.23	0.46	119.39 (23.66)	75.97-162.8	0.20
Nov-2019	204.04 (78.95)	61.21-367.26	0.39	443.25 (103.5)	242.73-643.77	0.23	773.93 (85)	610.99-947.04	0.11
Dec-2019	115.01 (45.77)	28.75-210.85	0.40	378.85 (101.23)	184.57-573.14	0.27	554.75 (108.86)	350.37-768.87	0.20
Jan-2020	194.67 (63.05)	73-316.34	0.32	396.3 (84.43)	233.71-569.04	0.21	723.07 (94.21)	539.76-906.38	0.13
Feb-2020	530.55 (272.84)	70.07-1071.12	0.51	1363.32 (310.59)	721.18-1936.32	0.23	2572.18 (394.61)	1790.76-3334.55	0.15
Mar-2020	175.06 (80.12)	29.18-340.39	0.46	484.77 (81.35)	313.68-646.36	0.17	794.49 (109.27)	586.41-1002.57	0.14
Apr-2020	53.7 (25.81)	8.95-107.4	0.48	87.26 (26.46)	34.9-139.61	0.30	255.07 (54.21)	158.32-369.4	0.21
May-2020	34.1 (27.51)	0-102.31	0.81	81.85 (40.78)	10.23-163.95	0.50	150.06 (50.08)	57.71-253.94	0.33
Jun-2020	0 (0)	0-0		27 (16.03)	0-63	0.59	27 (15.73)	0-63	0.58
Jul-2020	6.76 (5.54)	0-20.27	0.82	27.02 (13.27)	0-54.04	0.49	33.78 (14.24)	8.44-59.11	0.42
Aug-2020	0 (0)	0-0		6.76 (5.49)	0-20.29	0.81	6.76 (5.43)	0-20.29	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	147.96 (72.75)	17.41-295.92	0.49	235.39 (71.65)	104.62-374.89	0.30	343 (65.27)	225.66-469.37	0.19
Oct-2020	0 (0)	0-0		80.89 (51.03)	0-188.74	0.63	94.37 (49.25)	17.16-205.9	0.52
Nov-2020	33.7 (15.14)	0-58.97	0.45	107.84 (29.09)	53.92-161.75	0.27	202.19 (46.09)	118.94-285.45	0.23
Dec-2020	343.6 (156.76)	63.63-661.75	0.46	768.05 (158.09)	451.8-1061.72	0.21	1219.45 (111.15)	1026.91-1454.78	0.09
Jan-2021	101.28 (45.73)	16.88-194.12	0.45	249.83 (67.64)	119.92-379.74	0.27	432.14 (70)	297.7-585.79	0.16
Feb-2021	94.18 (48.1)	9.42-188.35	0.51	248.89 (66.81)	129.43-378.32	0.27	524.7 (101.56)	331.95-728.15	0.19

Table 10. Five Estuaries North. Abundance of Herring gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	70.19 (51.02)	0-168.46	0.73	70.19 (52.08)	0-182.5	0.74	70.19 (52.88)	0-182.68	0.75
Aug-2019	0 (0)	0-0		7.06 (5.85)	0-21.17	0.83	7.06 (5.87)	0-21.17	0.83
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		14.07 (7.15)	0-28.14	0.51
Dec-2019	0 (0)	0-0		6.77 (5.52)	0-20.3	0.82	6.77 (5.57)	0-20.3	0.82
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	6.76 (5.62)	0-20.27	0.83	6.76 (5.53)	0-20.27	0.82	6.76 (5.52)	0-20.27	0.82
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	6.73 (5.54)	0-20.18	0.82	6.73 (5.45)	0-20.18	0.81	6.73 (5.48)	0-20.18	0.82
Oct-2020	0 (0)	0-0		0 (0)	0-0		6.74 (4.89)	0-13.48	0.73
Nov-2020	0 (0)	0-0		0 (0)	0-0		6.74 (5.4)	0-20.22	0.80
Dec-2020	13.47 (9.71)	0-33.69	0.72	20.21 (10.74)	0-40.42	0.53	60.64 (15.74)	26.95-87.58	0.26
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 11. Five Estuaries North. Abundance of Kittiwake recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	210.77 (90.82)	56.03-393.44	0.43	386.42 (107.98)	189.52-597.19	0.28	744.74 (126.58)	505.68-997.66	0.17
Apr-2019	91.19 (45.45)	14.03-189.4	0.50	343.72 (60.46)	231.48-469.98	0.18	448.94 (71.8)	308.65-589.23	0.16
May-2019	42.34 (33.76)	0-127.02	0.80	70.57 (31.62)	21.17-141.14	0.45	162.31 (63.07)	56.45-289.33	0.39
Jun-2019	42.68 (18.87)	14.23-85.37	0.44	149.4 (63.77)	49.8-298.97	0.43	170.74 (63.06)	64.03-298.79	0.37
Jul-2019	7.02 (5.82)	0-21.06	0.83	7.02 (5.6)	0-21.06	0.80	42.12 (12.11)	21.06-70.19	0.29
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	21.11 (12.68)	0-49.25	0.60	98.51 (37.86)	27.97-175.9	0.38	197.01 (69.71)	63.32-330.87	0.35
Oct-2019	7.02 (5.69)	0-21.07	0.81	14.05 (7.77)	0-28.09	0.55	21.07 (9.75)	7.02-42.14	0.46
Nov-2019	35.18 (17.95)	0-70.36	0.51	63.32 (21.74)	21.11-105.54	0.34	105.54 (21.19)	63.32-147.75	0.20
Dec-2019	40.59 (18.51)	6.77-74.42	0.46	74.42 (21.14)	33.83-115.01	0.28	142.07 (26.75)	87.95-196.19	0.19
Jan-2020	13.91 (8)	0-27.81	0.58	34.76 (11.12)	13.91-55.62	0.32	69.53 (17.49)	34.76-104.29	0.25
Feb-2020	73.87 (43.15)	0-161.35	0.58	201.48 (81.76)	47.01-362.66	0.41	248.49 (82.64)	100.74-416.38	0.33
Mar-2020	0 (0)	0-0		47.13 (18.24)	13.47-80.8	0.39	94.26 (26.43)	40.4-148.12	0.28
Apr-2020	0 (0)	0-0		13.42 (7.1)	0-26.85	0.53	26.85 (8.71)	13.42-46.99	0.32
May-2020	0 (0)	0-0		34.1 (14.31)	6.82-61.39	0.42	68.21 (21.81)	27.28-109.13	0.32
Jun-2020	13.5 (11.45)	0-40.5	0.85	13.5 (11.1)	0-40.5	0.82	67.5 (27.62)	20.25-128.26	0.41
Jul-2020	54.04 (37.16)	0-141.86	0.69	67.55 (35.9)	13.51-141.86	0.53	101.33 (40.91)	33.78-189.14	0.40
Aug-2020	13.53 (11.2)	0-40.58	0.83	33.81 (16.35)	6.76-67.63	0.48	94.68 (25.41)	47.34-148.78	0.27

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	13.45 (11.14)	0-40.35	0.83	13.45 (10.82)	0-40.35	0.80	26.9 (13.71)	6.73-53.8	0.51
Oct-2020	0 (0)	0-0		20.22 (12.48)	0-47.19	0.62	40.44 (14.15)	13.48-67.41	0.35
Nov-2020	26.96 (15.62)	0-60.66	0.58	101.1 (28.72)	47.18-155.01	0.28	141.53 (32.95)	80.88-208.93	0.23
Dec-2020	20.21 (12.44)	0-47.16	0.62	87.58 (24.41)	40.42-134.75	0.28	175.17 (34.57)	114.53-242.54	0.20
Jan-2021	20.26 (12.14)	0-47.27	0.60	47.27 (17.14)	13.5-81.03	0.36	74.27 (19.22)	40.51-108.03	0.26
Feb-2021	6.73 (5.79)	0-20.18	0.86	26.91 (13.02)	6.73-53.82	0.48	60.54 (15.43)	33.63-94.18	0.25

Table 12. Five Estuaries North. Abundance of Lesser black-backed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		7.03 (3.6)	0-14.05	0.51
Apr-2019	0 (0)	0-0		0 (0)	0-0		14.03 (6.32)	0-28.06	0.45
May-2019	0 (0)	0-0		14.11 (11.56)	0-42.34	0.82	14.11 (11.53)	0-42.34	0.82
Jun-2019	21.34 (14.62)	0-49.8	0.69	42.68 (20.44)	7.11-78.25	0.48	56.91 (22.02)	21.34-106.71	0.39
Jul-2019	954.63 (710.15)	0-2583.11	0.74	954.63 (726.88)	0-2618.21	0.76	1017.8 (735.48)	28.08-2681.73	0.72
Aug-2019	0 (0)	0-0		14.11 (9.21)	0-28.23	0.65	14.11 (9.52)	0-28.23	0.67
Sep-2019	14.07 (7.45)	0-28.14	0.53	21.11 (8.25)	7.04-35.18	0.39	28.14 (9.68)	7.04-49.25	0.34
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		7.04 (5.25)	0-14.07	0.75	21.11 (12.7)	0-49.25	0.60
Dec-2019	0 (0)	0-0		0 (0)	0-0		6.77 (5.56)	0-20.3	0.82
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		6.71 (5.55)	0-20.14	0.83
May-2020	0 (0)	0-0		20.46 (11.68)	0-47.75	0.57	20.46 (12.25)	0-47.75	0.60
Jun-2020	67.5 (31.44)	6.75-135.01	0.47	121.51 (33.24)	60.75-189.01	0.27	229.51 (39.26)	148.51-303.77	0.17
Jul-2020	0 (0)	0-0		0 (0)	0-0		20.27 (8.47)	6.76-33.78	0.42
Aug-2020	0 (0)	0-0		6.76 (4.77)	0-13.53	0.71	6.76 (4.77)	0-13.53	0.71

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	6.73 (5.3)	0-20.18	0.79	13.45 (7.49)	0-26.9	0.56	13.45 (7.42)	0-26.9	0.55
Oct-2020	0 (0)	0-0		6.74 (5.46)	0-20.22	0.81	6.74 (5.67)	0-20.22	0.84
Nov-2020	0 (0)	0-0		0 (0)	0-0		20.22 (12.27)	0-47.18	0.61
Dec-2020	0 (0)	0-0		6.74 (5.32)	0-20.21	0.79	13.47 (7.41)	0-26.95	0.55
Jan-2021	6.75 (5.52)	0-20.26	0.82	13.5 (7.82)	0-27.01	0.58	13.5 (8.01)	0-27.01	0.59
Feb-2021	0 (0)	0-0		0 (0)	0-0		6.73 (4.81)	0-13.45	0.71

Table 13. Five Estuaries North. Abundance of Little gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	14.03 (11.14)	0-28.41	0.79	14.03 (11)	0-42.09	0.78	14.03 (11.07)	0-42.09	0.79
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		14.05 (6.94)	0-28.09	0.49
Nov-2019	7.04 (5.72)	0-21.11	0.81	7.04 (5.52)	0-21.11	0.78	14.07 (7.23)	0-28.14	0.51
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		6.71 (5.18)	0-13.42	0.77
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		6.74 (4.79)	0-13.48	0.71
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		6.73 (5.48)	0-20.18	0.81	6.73 (5.53)	0-20.18	0.82

Table 14. Five Estuaries North. Abundance of Puffin recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		7.03 (3.74)	0-14.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 15. Five Estuaries North. Abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		7.03 (3.74)	0-14.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 16. Five Estuaries North. Abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		7.03 (3.74)	0-14.05	0.53
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 17. Five Estuaries North. Abundance of Razorbill recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	266.98 (99.91)	77.28-463.7	0.37	548.01 (103.36)	351.29-751.76	0.19	892.28 (85.62)	716.63-1054.05	0.10
Apr-2019	21.04 (10.44)	0-42.09	0.50	77.16 (25.39)	28.06-126.26	0.33	133.28 (42.22)	56.12-224.47	0.32
May-2019	14.11 (11.67)	0-42.34	0.83	14.11 (11.91)	0-42.34	0.84	14.11 (11.83)	0-42.34	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	14.11 (11.74)	0-42.34	0.83	14.11 (11.61)	0-42.34	0.82	14.11 (11.53)	0-42.34	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	14.05 (8.03)	0-28.09	0.57	14.05 (8.06)	0-28.09	0.57	70.23 (28.33)	14.05-126.41	0.40
Nov-2019	91.46 (49.8)	0-197.18	0.54	154.79 (48.13)	63.32-246.43	0.31	218.11 (50.79)	126.64-316.61	0.23
Dec-2019	182.66 (80.34)	20.3-338.26	0.44	588.58 (132.52)	345.03-859.19	0.23	1123.03 (229.47)	737.41-1630.43	0.20
Jan-2020	20.86 (7.96)	6.95-34.76	0.38	152.96 (51.37)	62.57-257.25	0.34	292.01 (62.47)	166.86-410.2	0.21
Feb-2020	161.18 (80.59)	20.15-329.08	0.50	214.91 (79.89)	67.16-382.81	0.37	423.1 (57.32)	308.93-523.84	0.14
Mar-2020	47.13 (26.97)	0-100.99	0.57	249.12 (54.95)	148.12-356.85	0.22	410.71 (61.78)	289.52-525.17	0.15
Apr-2020	0 (0)	0-0		20.14 (16.54)	0-60.41	0.82	53.7 (23.17)	13.42-100.68	0.43
May-2020	6.82 (5.74)	0-20.46	0.84	27.28 (13.94)	0-54.57	0.51	34.1 (13.84)	6.82-61.39	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	101.11 (55.58)	0-215.7	0.55	208.96 (82.56)	53.93-377.65	0.40	262.89 (86.98)	101.11-431.41	0.33
Nov-2020	6.74 (5.75)	0-20.22	0.85	47.18 (33.01)	0-121.48	0.70	94.36 (56.2)	6.74-215.67	0.60
Dec-2020	188.64 (96.97)	0-377.29	0.51	458.14 (94.82)	276.23-633.31	0.21	720.89 (81.61)	559.2-876.02	0.11
Jan-2021	67.52 (25.54)	20.26-121.54	0.38	101.28 (33.31)	40.51-168.8	0.33	168.8 (32.57)	101.28-229.57	0.19
Feb-2021	60.54 (43.47)	0-161.45	0.72	141.26 (42.35)	60.54-221.99	0.30	248.89 (59.64)	141.26-369.98	0.24

Table 18. Five Estuaries North. Abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	274.01 (102.54)	79.32-475.91	0.37	562.06 (106.01)	360.3-771.04	0.19	920.38 (88.32)	739.2-1087.24	0.10
Apr-2019	21.04 (10.44)	0-42.09	0.50	84.18 (27.7)	30.61-137.74	0.33	147.31 (46.67)	62.02-248.1	0.32
May-2019	14.11 (11.67)	0-42.34	0.83	14.11 (11.91)	0-42.34	0.84	14.11 (11.83)	0-42.34	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	21.17 (17.61)	0-63.51	0.83	14.11 (11.61)	0-42.34	0.82	14.11 (11.53)	0-42.34	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	21.07 (12.04)	0-42.14	0.57	14.05 (8.06)	0-28.09	0.57	77.25 (31.16)	15.45-139.05	0.40
Nov-2019	98.5 (53.63)	0-212.34	0.54	168.86 (52.51)	69.08-268.83	0.31	246.25 (57.35)	142.98-357.46	0.23
Dec-2019	202.96 (89.27)	22.55-375.85	0.44	656.23 (147.75)	384.69-957.95	0.23	1224.51 (250.2)	804.05-1777.76	0.20
Jan-2020	27.81 (10.61)	9.27-46.35	0.38	173.81 (58.37)	71.11-292.33	0.34	340.68 (72.89)	194.67-478.57	0.21
Feb-2020	181.33 (90.67)	22.67-370.21	0.50	235.06 (87.38)	73.45-418.69	0.37	463.4 (62.78)	338.35-573.73	0.14
Mar-2020	53.86 (30.82)	0-115.42	0.57	269.32 (59.41)	160.13-385.78	0.22	437.64 (65.83)	308.5-559.61	0.15
Apr-2020	0 (0)	0-0		20.14 (16.54)	0-60.41	0.82	53.7 (23.17)	13.42-100.68	0.43
May-2020	6.82 (5.74)	0-20.46	0.84	27.28 (13.94)	0-54.57	0.51	47.75 (19.38)	9.55-85.94	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	101.11 (55.58)	0-215.7	0.55	208.96 (82.56)	53.93-377.65	0.40	262.89 (86.98)	101.11-431.41	0.33
Nov-2020	6.74 (5.75)	0-20.22	0.85	53.92 (37.73)	0-138.84	0.70	128.06 (76.27)	9.15-292.7	0.60
Dec-2020	276.23 (141.99)	0-552.46	0.51	586.15 (121.31)	353.41-810.26	0.21	875.85 (99.15)	679.4-1064.32	0.11
Jan-2021	67.52 (25.54)	20.26-121.54	0.38	114.79 (37.75)	45.91-191.31	0.33	182.31 (35.18)	109.39-247.94	0.19
Feb-2021	67.27 (48.3)	0-179.38	0.72	161.45 (48.4)	69.19-253.7	0.30	302.71 (72.54)	171.81-449.97	0.24

Table 19. Five Estuaries North. Abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	330.21 (123.58)	95.59-573.53	0.37	681.5 (128.54)	436.86-934.88	0.19	1117.1 (107.2)	897.2-1319.63	0.10
Apr-2019	28.06 (13.92)	0-56.12	0.50	105.22 (34.63)	38.26-172.18	0.33	175.37 (55.55)	73.84-295.35	0.32
May-2019	14.11 (11.67)	0-42.34	0.83	14.11 (11.91)	0-42.34	0.84	14.11 (11.83)	0-42.34	0.84
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	28.23 (23.48)	0-84.68	0.83	14.11 (11.61)	0-42.34	0.82	14.11 (11.53)	0-42.34	0.82
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	28.09 (16.06)	0-56.18	0.57	14.05 (8.06)	0-28.09	0.57	91.3 (36.83)	18.26-164.34	0.40
Nov-2019	119.61 (65.13)	0-257.84	0.54	204.04 (63.45)	83.47-324.83	0.31	295.5 (68.82)	171.58-428.95	0.23
Dec-2019	243.55 (107.13)	27.06-451.02	0.44	791.54 (178.22)	464-1155.46	0.23	1481.59 (302.73)	972.85-2150.99	0.20
Jan-2020	34.76 (13.26)	11.59-57.94	0.38	194.67 (65.38)	79.64-327.4	0.34	375.44 (80.32)	214.54-527.4	0.21
Feb-2020	214.91 (107.46)	26.86-438.77	0.50	282.07 (104.86)	88.15-502.43	0.37	550.7 (74.61)	402.1-681.82	0.14
Mar-2020	67.33 (38.52)	0-144.28	0.57	323.18 (71.29)	192.16-462.93	0.22	531.9 (80.01)	374.95-680.14	0.15
Apr-2020	0 (0)	0-0		26.85 (22.06)	0-80.55	0.82	67.12 (28.96)	16.78-125.85	0.43
May-2020	6.82 (5.74)	0-20.46	0.84	34.1 (17.43)	0-68.21	0.51	54.57 (22.15)	10.91-98.22	0.41
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	114.59 (62.99)	0-244.46	0.55	229.19 (90.54)	59.14-414.2	0.40	283.11 (93.68)	108.89-464.59	0.33
Nov-2020	6.74 (5.75)	0-20.22	0.85	67.4 (47.16)	0-173.55	0.70	155.01 (92.32)	11.07-354.32	0.60
Dec-2020	336.86 (173.16)	0-673.73	0.51	707.42 (146.41)	426.53-977.9	0.21	1057.76 (119.75)	820.5-1285.37	0.11
Jan-2021	74.27 (28.09)	22.28-133.69	0.38	128.29 (42.2)	51.32-213.82	0.33	209.32 (40.39)	125.59-284.67	0.19
Feb-2021	80.72 (57.96)	0-215.26	0.72	195.08 (58.48)	83.61-306.55	0.30	363.25 (87.05)	206.17-539.97	0.24

Table 20. Five Estuaries North. Abundance of Red-throated diver recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		7.03 (5.72)	0-21.08	0.81
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		7.04 (5.51)	0-21.11	0.78	7.04 (5.8)	0-21.11	0.82
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		6.77 (5.25)	0-13.53	0.78	6.77 (5.11)	0-13.53	0.76
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		20.15 (8.9)	6.72-40.3	0.44
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		13.64 (9.68)	0-27.28	0.71	13.64 (9.68)	0-27.28	0.71
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		6.74 (4.78)	0-13.48	0.71
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		6.74 (5.64)	0-20.21	0.84
Jan-2021	6.75 (5.57)	0-20.26	0.82	13.5 (6.74)	0-27.01	0.50	13.5 (6.57)	0-27.01	0.49
Feb-2021	0 (0)	0-0		0 (0)	0-0		13.45 (9.7)	0-33.63	0.72

Table 21. Five Estuaries North. Abundance of Sandwich tern recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		7.01 (4.83)	0-14.03	0.69
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 22. Five Estuaries South. Abundance of Arctic skua recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		7.08 (5.39)	0-14.17	0.76
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		7.06 (5.37)	0-14.13	0.76	7.06 (5.42)	0-14.31	0.77
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 23. Five Estuaries South. Abundance of Black-headed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		34.69 (19.56)	0-76.32	0.56
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	7.01 (5.64)	0-21.03	0.80	7.01 (5.71)	0-21.03	0.81	14.02 (8.39)	0-28.03	0.60
Nov-2019	7.06 (5.6)	0-21.19	0.79	14.13 (7.93)	0-28.26	0.56	14.13 (7.87)	0-28.26	0.56
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	13.48 (7.61)	0-26.95	0.56	13.48 (7.66)	0-26.95	0.57	33.69 (15.4)	6.74-67.38	0.46
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		13.49 (10.81)	0-40.46	0.80	13.49 (10.47)	0-33.72	0.78
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 24. Five Estuaries South. Abundance of Common gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		7.08 (6)	0-21.25	0.85	7.08 (5.69)	0-21.25	0.80
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		6.89 (5.2)	0-13.77	0.76	6.89 (5.17)	0-13.77	0.75
Feb-2020	0 (0)	0-0		0 (0)	0-0		26.7 (21.05)	0-80.11	0.79
Mar-2020	20.14 (10.41)	0-40.29	0.52	33.57 (13.42)	13.26-60.43	0.40	33.57 (14.74)	6.71-60.43	0.44
Apr-2020	0 (0)	0-0		26.91 (9)	6.73-47.1	0.33	60.55 (13.73)	33.64-87.47	0.23
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.43)	0-20.19	0.81
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	6.73 (5.53)	0-20.2	0.82	6.73 (5.45)	0-20.2	0.81	6.73 (5.53)	0-20.2	0.82

Table 25. Five Estuaries South. Abundance of Common tern recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		13.44 (10.57)	0-33.78	0.79
Jul-2020	0 (0)	0-0		6.74 (5.53)	0-20.21	0.82	6.74 (5.58)	0-20.21	0.83
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		26.92 (14.99)	0-53.83	0.56
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 26. Five Estuaries South. Abundance of Cormorant recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	42.51 (33.75)	0-85.02	0.79	42.51 (35.68)	0-127.53	0.84	42.51 (35.66)	0-127.53	0.84
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 27. Five Estuaries South. Abundance of Fulmar recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	48.56 (17.41)	13.88-83.25	0.36	62.44 (20.83)	20.81-104.07	0.33	104.07 (27.23)	48.56-159.57	0.26
Apr-2019	7.02 (5.74)	0-21.05	0.82	14.04 (7.81)	0-28.07	0.56	14.04 (7.68)	0-28.07	0.55
May-2019	21.07 (9.97)	7.02-42.14	0.47	28.09 (12.46)	7.02-56.18	0.44	42.14 (12.6)	21.07-63.38	0.30
Jun-2019	28.33 (17.37)	0-63.74	0.61	70.82 (30.33)	14.16-127.48	0.43	99.15 (40.16)	21.25-177.05	0.41
Jul-2019	6.98 (5.56)	0-13.95	0.80	6.98 (5.86)	0-20.93	0.84	6.98 (5.62)	0-20.93	0.81
Aug-2019	34.99 (26.65)	0-97.96	0.76	146.94 (86.73)	13.99-328.86	0.59	258.89 (102.57)	76.97-468.8	0.40
Sep-2019	7.08 (5.35)	0-14.17	0.76	35.42 (22.98)	0-85.02	0.65	233.8 (85.41)	63.76-410.92	0.37
Oct-2019	0 (0)	0-0		7.01 (5.23)	0-14.02	0.75	7.01 (5.17)	0-14.02	0.74
Nov-2019	0 (0)	0-0		7.06 (5.3)	0-14.13	0.75	7.06 (5.43)	0-14.31	0.77
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		6.89 (5.55)	0-20.66	0.81	13.77 (7.38)	0-27.54	0.54
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	6.76 (5.32)	0-20.29	0.79	6.76 (5.09)	0-13.53	0.75	33.82 (14.09)	6.76-60.88	0.42
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		20.21 (9.54)	0-40.43	0.47	74.12 (37.89)	6.74-148.4	0.51
Aug-2020	0 (0)	0-0		6.73 (5.5)	0-20.2	0.82	6.73 (5.36)	0-20.2	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.27)	0-20.19	0.78
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		6.73 (5.27)	0-13.47	0.78

Table 28. Five Estuaries South. Abundance of Gannet recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	13.88 (7.92)	0-27.75	0.57	34.69 (11.67)	13.88-55.5	0.34	319.14 (188.36)	34.69-638.27	0.59
Apr-2019	14.04 (8.07)	0-28.07	0.58	28.07 (11.48)	7.02-49.13	0.41	70.18 (20.56)	28.07-112.29	0.29
May-2019	0 (0)	0-0		7.02 (5.8)	0-21.07	0.83	7.02 (5.48)	0-14.22	0.78
Jun-2019	169.97 (127.47)	0-467.42	0.75	240.79 (140.06)	21.25-516.99	0.58	318.69 (150.38)	77.73-623.4	0.47
Jul-2019	13.95 (7.8)	0-27.91	0.56	27.91 (11.17)	6.98-48.84	0.40	41.86 (12.06)	20.93-69.77	0.29
Aug-2019	7 (5.74)	0-20.99	0.82	111.95 (46.31)	34.99-209.91	0.41	237.9 (77.95)	104.96-398.83	0.33
Sep-2019	35.42 (15.57)	7.08-70.85	0.44	42.51 (19.57)	7.08-77.93	0.46	70.85 (21)	35.25-113.36	0.30
Oct-2019	7.01 (5.86)	0-21.03	0.84	35.04 (14.1)	14.02-63.08	0.40	63.08 (16.99)	28.03-98.12	0.27
Nov-2019	261.39 (99.04)	84.77-466.25	0.38	438 (111.21)	218.82-642.87	0.25	678.19 (91.53)	501.58-861.87	0.13
Dec-2019	0 (0)	0-0		6.76 (5.29)	0-20.27	0.78	13.51 (7.68)	0-27.03	0.57
Jan-2020	0 (0)	0-0		0 (0)	0-0		6.89 (4.64)	0-13.77	0.67
Feb-2020	6.68 (5.2)	0-20.03	0.78	60.08 (27.3)	13.35-113.49	0.45	287.07 (101.84)	106.82-487.35	0.35
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	6.73 (5.6)	0-20.18	0.83	6.73 (5.47)	0-20.18	0.81	6.73 (5.78)	0-20.18	0.86
May-2020	6.76 (5.08)	0-20.29	0.75	6.76 (5.1)	0-13.53	0.75	6.76 (5.34)	0-13.7	0.79
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		6.73 (5.21)	0-13.47	0.77	6.73 (5.17)	0-13.47	0.77

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	26.92 (12.48)	6.73-53.83	0.46	87.48 (31.35)	33.48-154.77	0.36	114.4 (34.23)	53.83-181.69	0.30
Oct-2020	26.95 (16.21)	0-60.65	0.60	87.6 (35.33)	20.22-154.98	0.40	114.55 (41.2)	47.17-202.15	0.36
Nov-2020	20.23 (8.03)	6.74-33.72	0.40	53.95 (15.1)	26.98-80.93	0.28	87.67 (16.92)	53.95-121.39	0.19
Dec-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.58)	0-20.2	0.83
Jan-2021	0 (0)	0-0		0 (0)	0-0		20.19 (8.31)	6.73-33.66	0.41
Feb-2021	13.47 (10.54)	0-33.66	0.78	20.2 (13.99)	0-47.13	0.69	26.93 (14.97)	0-53.86	0.56

Table 29. Five Estuaries South. Abundance of Great black-backed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		13.88 (10.42)	0-27.75	0.75
Apr-2019	0 (0)	0-0		21.05 (11.63)	0-42.11	0.55	42.11 (15.85)	7.02-77.2	0.38
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		7.08 (5.8)	0-21.25	0.82	7.08 (5.86)	0-21.25	0.83
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		13.99 (9.39)	0-27.99	0.67	27.99 (11.22)	7-48.98	0.40
Sep-2019	21.25 (17.64)	0-63.76	0.83	56.68 (25.67)	14.17-106.27	0.45	212.54 (85.57)	49.59-375.49	0.40
Oct-2019	0 (0)	0-0		14.02 (5.78)	0-21.03	0.41	42.05 (13.51)	21.03-70.08	0.32
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	6.89 (5.39)	0-20.66	0.78	13.77 (7.63)	0-27.54	0.55	27.54 (9.69)	13.6-48.2	0.35
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		6.71 (4.61)	0-13.43	0.69
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		33.65 (18.31)	6.73-74.02	0.54	33.65 (17.49)	6.73-67.29	0.52
Oct-2020	0 (0)	0-0		6.74 (5.35)	0-20.22	0.79	26.95 (8.86)	13.48-47.17	0.33
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		26.93 (16.93)	0-67.33	0.63	53.87 (19.45)	20.2-94.27	0.36
Jan-2021	6.73 (5.8)	0-20.19	0.86	33.66 (15.43)	0-60.58	0.46	80.78 (36.22)	20.19-154.99	0.45
Feb-2021	0 (0)	0-0		0 (0)	0-0		6.73 (5.19)	0-13.47	0.77

Table 30. Five Estuaries South. Abundance of Great skua recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	7 (5.73)	0-20.99	0.82	13.99 (8.29)	0-27.99	0.59	27.99 (9.59)	7-48.98	0.34
Sep-2019	0 (0)	0-0		7.08 (5.6)	0-21.25	0.79	14.17 (7.33)	0-28.34	0.52
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.19)	0-13.46	0.77
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 31. Five Estuaries South. Abundance of Guillemot recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	187.32 (68.68)	69.2-326.07	0.37	506.46 (95.32)	312.2-693.77	0.19	1221.04 (266.83)	756.21-1713.97	0.22
Apr-2019	147.38 (50.82)	56.14-259.66	0.34	252.65 (54.5)	147.38-357.91	0.22	491.26 (60.49)	385.99-610.56	0.12
May-2019	7.02 (5.78)	0-21.07	0.82	28.09 (13.29)	7.02-56.18	0.47	42.14 (14.24)	14.05-70.23	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		7 (5.55)	0-13.99	0.79	7 (5.57)	0-20.99	0.80
Sep-2019	0 (0)	0-0		7.08 (5.44)	0-14.17	0.77	14.17 (7.33)	0-28.34	0.52
Oct-2019	49.06 (22.16)	14.02-91.11	0.45	84.1 (36.92)	21.03-161.19	0.44	98.12 (36.47)	35.04-175.21	0.37
Nov-2019	275.51 (118.62)	70.64-515.88	0.43	388.55 (124.3)	155.42-636.16	0.32	642.87 (120.99)	438-890.3	0.19
Dec-2019	175.68 (60.42)	67.57-304.06	0.34	371.63 (71.82)	222.98-506.77	0.19	554.06 (67.88)	425.68-689.2	0.12
Jan-2020	179.03 (71.13)	48.2-323.63	0.40	316.74 (80.24)	165.26-468.23	0.25	571.52 (73.98)	426.92-723	0.13
Feb-2020	1889.33 (514.01)	881.24-2877.89	0.27	3878.8 (618.49)	2683.61-5094.01	0.16	5768.13 (493.04)	4780.07-6743	0.09
Mar-2020	87.29 (41.63)	13.26-174.59	0.48	114.15 (42.3)	40.29-194.73	0.37	188.02 (41.84)	107.44-268.76	0.22
Apr-2020	80.74 (35.72)	20.18-154.75	0.44	195.12 (45.18)	107.65-282.59	0.23	296.05 (48.51)	201.85-383.51	0.16
May-2020	54.11 (29.53)	6.6-114.99	0.55	135.28 (46.82)	47.35-223.22	0.35	209.69 (51.6)	108.23-311.16	0.25
Jun-2020	13.44 (10.44)	0-40.33	0.78	13.44 (10.7)	0-40.33	0.80	26.89 (14.06)	0-53.78	0.52
Jul-2020	0 (0)	0-0		20.21 (9.15)	6.74-40.43	0.45	26.95 (10.15)	6.74-47.16	0.38
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	13.46 (7.79)	0-26.92	0.58	26.92 (11.97)	6.73-53.83	0.44	40.38 (14.97)	13.46-74.02	0.37
Oct-2020	0 (0)	0-0		13.48 (11.07)	0-40.43	0.82	53.91 (26.04)	6.74-107.82	0.48
Nov-2020	13.49 (7.54)	0-26.98	0.56	47.21 (14.04)	20.23-74.18	0.30	80.93 (19.63)	40.46-121.39	0.24
Dec-2020	47.13 (19.64)	13.47-87.53	0.42	195.26 (36.81)	121.2-269.33	0.19	356.86 (45.16)	269.33-451.13	0.13
Jan-2021	107.7 (48.34)	20.19-201.95	0.45	235.6 (58.18)	127.9-350.04	0.25	430.82 (68.58)	296.02-558.72	0.16
Feb-2021	94.26 (44.7)	13.47-181.78	0.47	161.58 (47.93)	67.33-255.84	0.30	228.91 (47.06)	134.65-323.17	0.21

Table 32. Five Estuaries South. Abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	201.19 (73.76)	74.33-350.23	0.37	534.21 (100.54)	329.31-731.79	0.19	1269.61 (277.44)	786.29-1782.14	0.22
Apr-2019	147.38 (50.82)	56.14-259.66	0.34	259.66 (56.01)	151.47-367.86	0.22	498.27 (61.36)	391.5-619.28	0.12
May-2019	7.02 (5.78)	0-21.07	0.82	28.09 (13.29)	7.02-56.18	0.47	42.14 (14.24)	14.05-70.23	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		13.99 (11.1)	0-27.99	0.79	13.99 (11.14)	0-41.98	0.80
Sep-2019	0 (0)	0-0		14.17 (10.88)	0-28.34	0.77	28.34 (14.65)	0-56.68	0.52
Oct-2019	56.07 (25.32)	16.02-104.13	0.45	84.1 (36.92)	21.03-161.19	0.44	112.14 (41.68)	40.05-200.24	0.37
Nov-2019	310.84 (133.83)	79.7-582.02	0.43	445.06 (142.38)	178.02-728.69	0.32	720.58 (135.62)	490.94-997.92	0.19
Dec-2019	189.19 (65.07)	72.77-327.45	0.34	418.93 (80.96)	251.36-571.26	0.19	621.63 (76.16)	477.6-773.25	0.12
Jan-2020	206.57 (82.07)	55.62-373.42	0.40	344.29 (87.22)	179.63-508.95	0.25	619.72 (80.22)	462.92-783.98	0.13
Feb-2020	2049.55 (557.6)	955.98-3121.95	0.27	4225.95 (673.84)	2923.8-5549.93	0.16	6315.56 (539.83)	5233.73-7382.96	0.09
Mar-2020	94.01 (44.83)	14.28-188.02	0.48	114.15 (42.3)	40.29-194.73	0.37	201.44 (44.82)	115.11-287.96	0.22
Apr-2020	80.74 (35.72)	20.18-154.75	0.44	195.12 (45.18)	107.65-282.59	0.23	302.77 (49.61)	206.44-392.23	0.16
May-2020	60.88 (33.22)	7.42-129.37	0.55	155.58 (53.84)	54.45-256.7	0.35	229.98 (56.59)	118.7-341.27	0.25
Jun-2020	13.44 (10.44)	0-40.33	0.78	26.89 (21.39)	0-80.67	0.80	80.67 (42.19)	0-161.33	0.52
Jul-2020	0 (0)	0-0		20.21 (9.15)	6.74-40.43	0.45	26.95 (10.15)	6.74-47.16	0.38
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	13.46 (7.79)	0-26.92	0.58	53.83 (23.95)	13.46-107.67	0.44	80.75 (29.94)	26.92-148.04	0.37
Oct-2020	0 (0)	0-0		13.48 (11.07)	0-40.43	0.82	53.91 (26.04)	6.74-107.82	0.48
Nov-2020	13.49 (7.54)	0-26.98	0.56	47.21 (14.04)	20.23-74.18	0.30	87.67 (21.27)	43.84-131.51	0.24
Dec-2020	60.6 (25.25)	17.31-112.54	0.42	235.66 (44.43)	146.27-325.05	0.19	457.86 (57.94)	345.56-578.81	0.13
Jan-2021	127.9 (57.4)	23.98-239.81	0.45	275.99 (68.15)	149.82-410.05	0.25	477.94 (76.08)	328.4-619.83	0.16
Feb-2021	127.92 (60.67)	18.27-246.7	0.47	208.71 (61.91)	86.96-330.46	0.30	289.5 (59.52)	170.3-408.71	0.21

Table 33. Five Estuaries South. Abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	263.63 (96.66)	97.4-458.92	0.37	700.71 (131.88)	431.95-959.88	0.19	1658.12 (362.34)	1026.9-2327.49	0.22
Apr-2019	196.5 (67.76)	74.86-346.22	0.34	343.88 (74.18)	200.6-487.16	0.22	652.67 (80.37)	512.81-811.17	0.12
May-2019	7.02 (5.78)	0-21.07	0.82	35.12 (16.61)	8.78-70.23	0.47	56.18 (18.99)	18.73-93.64	0.34
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		20.99 (16.64)	0-41.98	0.79	20.99 (16.71)	0-62.97	0.80
Sep-2019	0 (0)	0-0		21.25 (16.33)	0-42.51	0.77	35.42 (18.32)	0-70.85	0.52
Oct-2019	70.08 (31.65)	20.02-130.16	0.45	112.14 (49.22)	28.03-214.93	0.44	147.18 (54.71)	52.56-262.82	0.37
Nov-2019	409.74 (176.41)	105.06-767.21	0.43	579.29 (185.32)	231.71-948.45	0.32	939.57 (176.83)	640.15-1301.21	0.19
Dec-2019	236.49 (81.34)	90.96-409.31	0.34	533.79 (103.16)	320.28-727.9	0.19	804.07 (98.51)	617.76-1000.18	0.12
Jan-2020	268.54 (106.69)	72.3-485.45	0.40	447.57 (113.39)	233.52-661.63	0.25	791.86 (102.51)	591.51-1001.75	0.13
Feb-2020	2663.75 (724.7)	1242.46-4057.52	0.27	5514.44 (879.3)	3815.26-7242.09	0.16	8244.95 (704.75)	6832.62-9638.43	0.09
Mar-2020	120.87 (57.64)	18.36-241.73	0.48	147.73 (54.74)	52.14-252	0.37	261.88 (58.27)	149.64-374.35	0.22
Apr-2020	100.92 (44.66)	25.23-193.44	0.44	248.95 (57.65)	137.35-360.55	0.23	390.24 (63.94)	266.07-505.54	0.16
May-2020	81.17 (44.29)	9.89-172.49	0.55	202.93 (70.23)	71.02-334.83	0.35	304.39 (74.9)	157.1-451.68	0.25
Jun-2020	20.17 (15.66)	0-60.5	0.78	33.61 (26.74)	0-100.83	0.80	107.56 (56.25)	0-215.11	0.52
Jul-2020	0 (0)	0-0		26.95 (12.2)	8.98-53.9	0.45	33.69 (12.69)	8.42-58.96	0.38

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	20.19 (11.68)	0-40.38	0.58	67.29 (29.93)	16.82-134.59	0.44	107.67 (39.91)	35.89-197.39	0.37
Oct-2020	0 (0)	0-0		13.48 (11.07)	0-40.43	0.82	67.38 (32.55)	8.42-134.77	0.48
Nov-2020	20.23 (11.3)	0-40.46	0.56	60.69 (18.05)	26.01-95.38	0.30	114.65 (27.81)	57.32-171.97	0.24
Dec-2020	74.07 (30.86)	21.16-137.55	0.42	303 (57.12)	188.07-417.93	0.19	592.53 (74.99)	447.19-749.04	0.13
Jan-2021	168.29 (75.53)	31.55-315.54	0.45	363.5 (89.76)	197.33-540.06	0.25	619.3 (98.58)	425.53-803.16	0.16
Feb-2021	161.58 (76.63)	23.08-311.62	0.47	269.3 (79.89)	112.21-426.4	0.30	377.03 (77.51)	221.78-532.27	0.21

Table 34. Five Estuaries South. Abundance of Herring gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		92.07 (68.2)	0-254.95	0.74	92.07 (65.09)	0-247.87	0.71
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	13.99 (11.41)	0-41.98	0.82	27.99 (13.4)	6.82-55.98	0.48	34.99 (13.8)	13.99-62.97	0.39
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	7.01 (5.71)	0-21.03	0.81	7.01 (5.57)	0-21.03	0.79	7.01 (5.54)	0-14.19	0.79
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		6.89 (5.21)	0-13.77	0.76	13.77 (7.63)	0-27.54	0.55
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		13.46 (9.44)	0-26.91	0.70
May-2020	0 (0)	0-0		0 (0)	0-0		6.76 (0)	6.76-6.76	0.00
Jun-2020	0 (0)	0-0		6.72 (4.46)	0-13.44	0.66	6.72 (4.56)	0-13.44	0.68
Jul-2020	0 (0)	0-0		13.48 (7.78)	0-26.95	0.58	20.21 (7.59)	6.74-33.69	0.38
Aug-2020	0 (0)	0-0		6.73 (5.02)	0-13.47	0.75	6.73 (5.28)	0-20.2	0.78

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		26.92 (14.93)	0-53.83	0.55	33.65 (18.46)	0-67.29	0.55
Oct-2020	0 (0)	0-0		0 (0)	0-0		6.74 (0)	6.74-6.74	0.00
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		6.73 (5.15)	0-13.46	0.77	20.19 (12.4)	0-47.12	0.61
Feb-2021	0 (0)	0-0		0 (0)	0-0		6.73 (5.29)	0-13.47	0.79

Table 35. Five Estuaries South. Abundance of Kittiwake recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	152.63 (53.74)	55.5-263.63	0.35	450.95 (99.51)	256.7-631.33	0.22	971.28 (251.71)	506.46-1436.29	0.26
Apr-2019	21.05 (9.83)	0-42.11	0.47	91.23 (26.01)	42.11-140.53	0.29	112.29 (26.98)	56.14-168.43	0.24
May-2019	7.02 (5.79)	0-21.07	0.82	91.3 (34.59)	27.92-154.51	0.38	189.62 (56.08)	84.28-301.99	0.30
Jun-2019	14.16 (7.87)	0-28.33	0.56	49.57 (16.72)	14.16-84.98	0.34	70.82 (18.85)	35.41-106.23	0.27
Jul-2019	0 (0)	0-0		6.98 (5.64)	0-20.93	0.81	6.98 (5.44)	0-13.95	0.78
Aug-2019	7 (5.74)	0-20.99	0.82	27.99 (10.75)	7-48.98	0.38	76.97 (22.48)	34.99-118.95	0.29
Sep-2019	0 (0)	0-0		7.08 (5.38)	0-14.17	0.76	21.25 (9.23)	7.08-42.51	0.43
Oct-2019	7.01 (5.77)	0-21.03	0.82	7.01 (5.73)	0-21.03	0.82	28.03 (12.25)	7.01-49.06	0.44
Nov-2019	56.52 (20.43)	21.19-98.9	0.36	169.55 (29.65)	112.85-226.06	0.17	430.93 (95.16)	261.39-635.8	0.22
Dec-2019	101.35 (39.6)	33.78-182.44	0.39	216.22 (60.15)	108.11-331.09	0.28	371.63 (63.63)	256.59-500.18	0.17
Jan-2020	20.66 (9.5)	6.89-41.31	0.46	75.74 (21.84)	34.43-117.06	0.29	158.37 (26.12)	103.29-206.57	0.16
Feb-2020	53.41 (19.26)	20.03-93.47	0.36	106.82 (23.15)	60.08-153.55	0.22	233.66 (41.09)	160.23-320.45	0.18
Mar-2020	53.72 (24.24)	6.71-100.72	0.45	73.86 (26.7)	26.86-127.58	0.36	94.01 (30.02)	40.29-154.44	0.32
Apr-2020	0 (0)	0-0		6.73 (5.24)	0-20.18	0.78	20.18 (8.12)	6.73-33.64	0.40
May-2020	27.06 (10.93)	6.76-47.35	0.40	54.11 (15.98)	20.29-87.94	0.30	108.23 (23.99)	60.88-155.58	0.22
Jun-2020	6.72 (5.45)	0-20.17	0.81	6.72 (5.64)	0-20.17	0.84	13.44 (7.8)	0-26.89	0.58
Jul-2020	6.74 (5.55)	0-20.21	0.82	20.21 (9.88)	0-40.43	0.49	60.64 (25.51)	13.48-114.54	0.42
Aug-2020	0 (0)	0-0		20.2 (11.48)	0-40.41	0.57	40.41 (14.42)	13.47-67.35	0.36

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		13.46 (7.35)	0-26.92	0.55
Oct-2020	0 (0)	0-0		47.17 (39.59)	0-141.51	0.84	53.91 (38.97)	0-148.25	0.72
Nov-2020	33.72 (17.46)	0-67.44	0.52	47.21 (18.73)	13.49-87.67	0.40	101.16 (23.87)	53.95-148.36	0.24
Dec-2020	13.47 (7.59)	0-26.93	0.56	60.6 (26.64)	13.47-114.47	0.44	101 (30.03)	53.87-168.33	0.30
Jan-2021	6.73 (5.56)	0-20.19	0.83	127.9 (37.55)	60.58-201.95	0.29	228.87 (45.71)	148.09-323.11	0.20
Feb-2021	33.66 (14.16)	6.73-60.59	0.42	40.4 (15.33)	13.47-74.06	0.38	67.33 (16.1)	40.4-100.99	0.24

Table 36. Five Estuaries South. Abundance of Lesser black-backed gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	7.02 (5.77)	0-21.05	0.82	154.39 (54.83)	49.13-266.68	0.36	196.5 (48.34)	112.29-294.75	0.25
May-2019	7.02 (5.75)	0-21.07	0.82	14.05 (7.56)	0-28.09	0.54	14.05 (7.59)	0-28.09	0.54
Jun-2019	70.82 (51.15)	0-191.22	0.72	1572.22 (1208.4)	14.16-4426.46	0.77	1635.95 (1195.57)	84.98-4441.33	0.73
Jul-2019	0 (0)	0-0		20.93 (9.83)	0-41.86	0.47	27.91 (11.87)	6.98-48.84	0.43
Aug-2019	216.91 (124.58)	0-496.79	0.57	510.79 (173.46)	188.92-860.64	0.34	622.74 (166.51)	342.86-965.6	0.27
Sep-2019	21.25 (12.59)	0-49.59	0.59	56.68 (21.25)	14.17-99.19	0.37	120.44 (34.21)	49.59-184.2	0.28
Oct-2019	0 (0)	0-0		0 (0)	0-0		7.01 (5.28)	0-14.02	0.75
Nov-2019	0 (0)	0-0		14.13 (10.92)	0-28.26	0.77	14.13 (10.49)	0-28.26	0.74
Dec-2019	6.76 (5.8)	0-20.27	0.86	13.51 (8.13)	0-27.03	0.60	13.51 (7.84)	0-27.03	0.58
Jan-2020	0 (0)	0-0		13.77 (11.7)	0-41.31	0.85	13.77 (11.4)	0-41.31	0.83
Feb-2020	0 (0)	0-0		0 (0)	0-0		6.68 (5.33)	0-20.03	0.80
Mar-2020	6.71 (5.27)	0-20.14	0.79	6.71 (5.22)	0-13.43	0.78	6.71 (5.21)	0-13.43	0.78
Apr-2020	0 (0)	0-0		6.73 (5.45)	0-20.18	0.81	74.01 (46.21)	6.56-148.02	0.62
May-2020	6.76 (5.54)	0-20.29	0.82	13.53 (7.52)	0-27.06	0.56	20.29 (8.49)	6.76-33.82	0.42
Jun-2020	6.72 (5.43)	0-20.17	0.81	73.94 (17.55)	40.33-107.56	0.24	766.33 (542.66)	67.22-2057.16	0.71
Jul-2020	0 (0)	0-0		47.16 (23.48)	13.48-101.07	0.50	101.07 (32.86)	40.43-161.71	0.33
Aug-2020	6.73 (5.54)	0-20.2	0.82	13.47 (8.04)	0-26.94	0.60	20.2 (9.2)	6.73-40.41	0.46

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		107.67 (69.4)	13.46-215.34	0.64	275.9 (107.63)	74.02-497.97	0.39
Oct-2020	0 (0)	0-0		0 (0)	0-0		6.74 (5.62)	0-20.22	0.83
Nov-2020	6.74 (5.41)	0-20.23	0.80	6.74 (5.38)	0-20.23	0.80	13.49 (8.07)	0-26.98	0.60
Dec-2020	6.73 (5.67)	0-20.2	0.84	6.73 (5.65)	0-20.2	0.84	13.47 (7.79)	0-26.93	0.58
Jan-2021	0 (0)	0-0		6.73 (5.73)	0-20.19	0.85	33.66 (12.03)	13.46-60.58	0.36
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 37. Five Estuaries South. Abundance of Little gull recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		7.01 (4.51)	0-14.02	0.64	14.02 (6.29)	0-28.03	0.45
Nov-2019	0 (0)	0-0		14.13 (7.91)	0-28.26	0.56	14.13 (8.04)	0-28.26	0.57
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		6.73 (4.56)	0-13.46	0.68
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 38. Five Estuaries South. Abundance of Puffin recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		7.06 (5.88)	0-21.19	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 39. Five Estuaries South. Abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		7.06 (5.88)	0-21.19	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 40. Five Estuaries South. Abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		7.06 (5.88)	0-21.19	0.83
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Table 41. Five Estuaries South. Abundance of Razorbill recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	180.38 (64.2)	62.44-305.26	0.36	291.39 (69.23)	159.57-423.2	0.24	763.15 (246.79)	346.89-1200.4	0.32
Apr-2019	14.04 (11.11)	0-42.11	0.79	35.09 (16.72)	0-70.18	0.48	49.13 (20.09)	14.04-91.23	0.41
May-2019	14.05 (11.6)	0-42.14	0.83	28.09 (12.15)	0-42.14	0.43	42.14 (16.75)	14.05-70.23	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		147.18 (69.59)	21.03-294.35	0.47	252.3 (77.54)	112.14-406.49	0.31
Nov-2019	98.9 (52.24)	0-197.81	0.53	317.9 (121.67)	112.85-551.03	0.38	381.48 (124.62)	162.48-628.91	0.33
Dec-2019	81.08 (33.37)	20.27-141.89	0.41	263.52 (71.28)	134.97-412.17	0.27	601.36 (91.29)	432.44-783.8	0.15
Jan-2020	20.66 (12.8)	0-48.2	0.62	137.72 (49.88)	41.31-234.12	0.36	199.69 (51.44)	103.29-296.09	0.26
Feb-2020	213.63 (90.41)	60.08-407.41	0.42	460.65 (99.01)	286.9-654.26	0.21	968.03 (167.53)	654.09-1288.65	0.17
Mar-2020	80.58 (39.84)	13.43-161.32	0.49	120.87 (51.92)	33.57-228.3	0.43	208.16 (46.57)	120.87-302.17	0.22
Apr-2020	0 (0)	0-0		6.73 (5.47)	0-20.18	0.81	20.18 (11.51)	0-40.37	0.57
May-2020	13.53 (11.14)	0-40.59	0.82	13.53 (11.27)	0-40.59	0.83	20.29 (12.2)	0-47.35	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.42)	0-20.2	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	26.95 (16.81)	0-60.65	0.62	114.55 (50.72)	26.95-222.37	0.44	148.25 (50.58)	60.65-256.06	0.34
Nov-2020	80.93 (48.6)	13.49-188.83	0.60	121.39 (52.41)	26.98-229.29	0.43	202.32 (52.37)	101.16-303.47	0.26
Dec-2020	20.2 (12.69)	0-47.13	0.63	127.93 (41.66)	53.87-215.46	0.33	323.2 (81.32)	168.33-491.53	0.25
Jan-2021	20.19 (16.86)	0-60.58	0.83	100.97 (32.35)	40.39-161.72	0.32	242.33 (54.74)	134.63-350.04	0.23
Feb-2021	60.59 (32.54)	6.73-127.92	0.54	107.72 (35)	40.4-175.05	0.32	188.51 (37.6)	121.19-262.57	0.20

Table 42. Five Estuaries South. Abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	187.32 (66.67)	64.84-317	0.36	298.32 (70.88)	163.37-433.28	0.24	790.9 (255.76)	359.5-1244.05	0.32
Apr-2019	14.04 (11.11)	0-42.11	0.79	35.09 (16.72)	0-70.18	0.48	49.13 (20.09)	14.04-91.23	0.41
May-2019	14.05 (11.6)	0-42.14	0.83	28.09 (12.15)	0-42.14	0.43	42.14 (16.75)	14.05-70.23	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		154.19 (72.9)	22.03-308.37	0.47	287.35 (88.31)	127.71-462.95	0.31
Nov-2019	113.03 (59.7)	0-226.06	0.53	360.29 (137.9)	127.9-624.5	0.38	423.87 (138.47)	180.54-698.79	0.33
Dec-2019	87.84 (36.15)	21.96-153.72	0.41	297.3 (80.42)	152.27-465.01	0.27	675.69 (102.57)	485.89-880.67	0.15
Jan-2020	20.66 (12.8)	0-48.2	0.62	151.49 (54.87)	45.45-257.53	0.36	213.46 (54.98)	110.41-316.51	0.26
Feb-2020	233.66 (98.88)	65.72-445.6	0.42	500.71 (107.62)	311.85-711.15	0.21	1061.5 (183.71)	717.24-1413.07	0.17
Mar-2020	80.58 (39.84)	13.43-161.32	0.49	127.58 (54.81)	35.44-240.99	0.43	228.3 (51.08)	132.56-331.41	0.22
Apr-2020	0 (0)	0-0		6.73 (5.47)	0-20.18	0.81	20.18 (11.51)	0-40.37	0.57
May-2020	13.53 (11.14)	0-40.59	0.82	13.53 (11.27)	0-40.59	0.83	20.29 (12.2)	0-47.35	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.42)	0-20.2	0.80

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	26.95 (16.81)	0-60.65	0.62	114.55 (50.72)	26.95-222.37	0.44	148.25 (50.58)	60.65-256.06	0.34
Nov-2020	87.67 (52.65)	14.61-204.56	0.60	128.13 (55.32)	28.47-242.03	0.43	229.29 (59.36)	114.65-343.94	0.26
Dec-2020	20.2 (12.69)	0-47.13	0.63	161.6 (52.62)	68.04-272.16	0.33	410.73 (103.34)	213.92-624.65	0.25
Jan-2021	20.19 (16.86)	0-60.58	0.83	114.44 (36.67)	45.77-183.29	0.32	262.53 (59.3)	145.85-379.21	0.23
Feb-2021	80.79 (43.39)	8.98-170.56	0.54	134.65 (43.76)	50.49-218.81	0.32	235.64 (47)	151.48-328.22	0.20

Table 43. Five Estuaries South. Abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	222.01 (79.02)	76.85-375.71	0.36	353.83 (84.06)	193.76-513.89	0.24	950.47 (307.37)	432.03-1495.05	0.32
Apr-2019	14.04 (11.11)	0-42.11	0.79	42.11 (20.07)	0-84.22	0.48	56.14 (22.96)	16.04-104.27	0.41
May-2019	14.05 (11.6)	0-42.14	0.83	35.12 (15.19)	0-52.67	0.43	49.16 (19.54)	16.39-81.94	0.40
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		189.23 (89.47)	27.03-378.46	0.47	350.42 (107.69)	155.74-564.57	0.31
Nov-2019	134.22 (70.89)	0-268.45	0.53	438 (167.64)	155.49-759.19	0.38	515.71 (168.47)	219.65-850.2	0.33
Dec-2019	108.11 (44.5)	27.03-189.19	0.41	358.11 (96.87)	183.42-560.13	0.27	817.58 (124.12)	587.92-1065.61	0.15
Jan-2020	27.54 (17.07)	0-64.27	0.62	179.03 (64.84)	53.71-304.35	0.36	254.77 (65.63)	131.78-377.77	0.26
Feb-2020	273.72 (115.84)	76.98-521.99	0.42	600.85 (129.14)	374.22-853.38	0.21	1261.78 (218.37)	852.57-1679.69	0.17
Mar-2020	100.72 (49.8)	16.79-201.65	0.49	154.44 (66.35)	42.9-291.72	0.43	275.31 (61.6)	159.86-399.64	0.22
Apr-2020	0 (0)	0-0		6.73 (5.47)	0-20.18	0.81	20.18 (11.51)	0-40.37	0.57
May-2020	13.53 (11.14)	0-40.59	0.82	13.53 (11.27)	0-40.59	0.83	27.06 (16.26)	0-63.13	0.60
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Aug-2020	0 (0)	0-0		0 (0)	0-0		6.73 (5.42)	0-20.2	0.80
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	33.69 (21.02)	0-75.81	0.62	134.77 (59.67)	31.71-261.61	0.44	175.2 (59.78)	71.67-302.62	0.34
Nov-2020	107.9 (64.8)	17.98-251.77	0.60	155.11 (66.96)	34.47-292.98	0.43	276.5 (71.58)	138.25-414.75	0.26
Dec-2020	26.93 (16.91)	0-62.84	0.63	195.26 (63.58)	82.22-328.87	0.33	498.26 (125.36)	259.51-757.77	0.25
Jan-2021	20.19 (16.86)	0-60.58	0.83	134.63 (43.14)	53.85-215.63	0.32	316.38 (71.47)	175.77-457	0.23
Feb-2021	87.52 (47)	9.72-184.77	0.54	154.85 (50.32)	58.07-251.63	0.32	276.04 (55.06)	177.45-384.48	0.20

Table 44. Five Estuaries South. Abundance of Red-throated diver recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		6.94 (5.58)	0-20.81	0.80	6.94 (5.74)	0-20.81	0.83
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		13.35 (7.77)	0-26.7	0.58	13.35 (7.7)	0-26.7	0.58
Mar-2020	0 (0)	0-0		0 (0)	0-0		6.71 (5.24)	0-20.14	0.78
Apr-2020	0 (0)	0-0		0 (0)	0-0		13.46 (7.81)	0-26.91	0.58
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		13.47 (11.21)	0-40.4	0.83	13.47 (11.07)	0-40.4	0.82
Jan-2021	0 (0)	0-0		0 (0)	0-0		20.19 (7.25)	6.73-33.66	0.36
Feb-2021	6.73 (5.51)	0-20.2	0.82	13.47 (5.67)	0-20.2	0.42	13.47 (5.98)	0-20.2	0.44

Table 45. Five Estuaries South. Abundance of Sandwich tern recorded on each survey 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.

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Mar-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Sep-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2019	7.01 (5.76)	0-21.03	0.82	7.01 (6.01)	0-21.03	0.86	7.01 (5.77)	0-21.03	0.82
Nov-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2019	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Mar-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Apr-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
May-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jun-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jul-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Aug-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	

Survey	Abundance								
	Wind farm			Wind farm & 2km buffer			Wind farm and 4km buffer		
	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV	Estimate (S.D.)	95% c.i.	CV
Sep-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Oct-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Nov-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Dec-2020	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Jan-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	
Feb-2021	0 (0)	0-0		0 (0)	0-0		0 (0)	0-0	



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