



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

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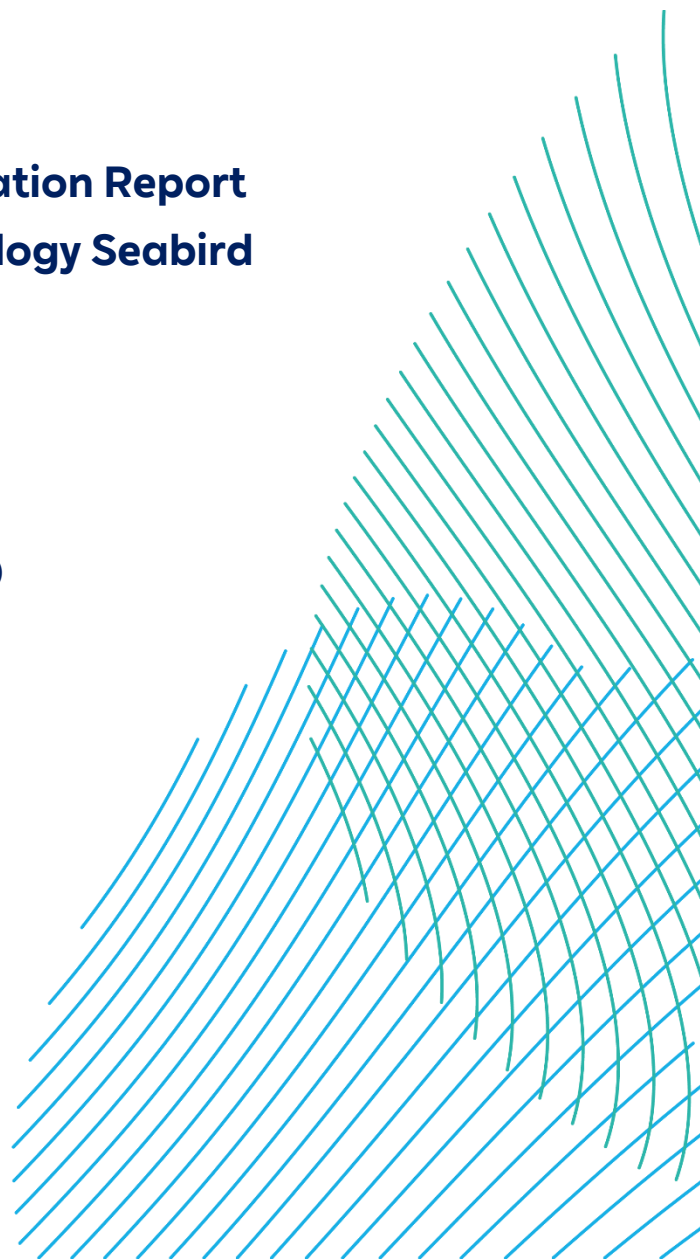
Dogger Bank South Offshore Wind Farms

**Preliminary Environmental Information Report
Appendix 12-2 – Offshore Ornithology Seabird
Abundances – Monthly**

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MacArthur
Green

Dogger Bank South Offshore Windfarm

Ornithology Technical Appendix 12.2 Seabird abundances by month

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1 INTRODUCTION

This appendix provides tables of seabird abundance in each calendar month for each species recorded during baseline surveys for the Dogger Bank South Offshore Windfarm. These have been derived from the 12 surveyed months for which data were available for this PEIR (March 2021 – February 2022).

Monthly 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. Dogger Bank South - East. Monthly abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	8.54 (8.73)	0-25.61
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	8.56 (8.51)	0-25.69	8.56 (8.28)	0-25.67	8.54 (8.8)	0-34.15
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 2. Dogger Bank South - East. Monthly abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	17.5 (17.48)	0-52.51	17.52 (17.89)	0-52.57	17.45 (17.43)	0-52.36
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 3. Dogger Bank South - East. Monthly abundance of Black-backed gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	86.4 (84.12)	0-259.21	85.99 (83.89)	0-257.97	85.34 (84.94)	0-256.01
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 4. Dogger Bank South - East. Monthly abundance of Commic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	26.25 (19.47)	0-70.01	26.28 (18.66)	0-70.09	26.18 (18.73)	0-69.82
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 5. Dogger Bank South - East. Monthly abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	8.55 (8.15)	0-25.64	8.57 (8.29)	0-25.71	8.54 (8.44)	0-25.61
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	17.18 (16.47)	0-51.53	25.89 (18.65)	0-69.03	25.95 (18.76)	0-69.19
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 6. Dogger Bank South - East. Monthly abundance of Common scoter recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	17.09 (16.29)	0-51.28	17.14 (16.93)	0-51.42	17.07 (16.8)	0-51.21
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 7. Dogger Bank South - East. Monthly abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	59.33 (22.64)	16.95-101.71	100.92 (32.68)	42.05-168.2	100.36 (32.07)	41.82-167.27
Feb	51.88 (19.44)	17.29-95.1	51.64 (19.28)	17.21-94.68	85.25 (23.64)	42.63-136.41
Mar	0 (0)	0-0	0 (0)	0-0	17.14 (12.36)	0-34.29
Apr	8.74 (6.32)	0-17.47	34.67 (14.21)	8.67-60.67	77.54 (26.96)	25.85-137.85
May	17.31 (9.03)	0-34.61	25.84 (10.41)	8.61-43.06	51.18 (17.44)	17.06-85.3
Jun	34.56 (9.82)	17.28-51.84	51.59 (19.66)	17.2-85.99	68.27 (23.72)	25.6-110.94
Jul	8.75 (6.89)	0-26.25	17.52 (10.23)	0-35.04	17.45 (10.19)	0-34.91
Aug	34.19 (11.38)	17.09-59.83	51.42 (16.16)	25.71-85.71	119.5 (32.84)	59.75-187.78
Sep	165.7 (37.38)	95.93-244.19	242.84 (52.92)	147.44-355.59	328.18 (63.04)	207.27-449.31
Oct	34.25 (9.34)	17.12-51.37	34.23 (14.62)	8.56-59.9	34.15 (14.64)	8.54-59.76
Nov	154.58 (33.1)	94.46-223.28	215.73 (33.46)	155.11-276.35	285.4 (42.29)	198.91-363.23
Dec	9.09 (7.22)	0-27.28	9.07 (8.26)	0-27.22	26.91 (16.69)	0-62.78

Table 8. Dogger Bank South - East. Monthly abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	17.21 (14.36)	0-51.64	25.58 (16.98)	0-59.68
Mar	710.91 (151.39)	433.27-1023.02	852.89 (132.4)	611.67-1137.19	994.33 (146.94)	711.46-1294.35
Apr	323.2 (55.03)	218.38-436.76	424.68 (52.89)	320.68-520.02	516.95 (58.83)	404.94-646.19
May	164.41 (37.82)	95.18-242.29	275.6 (53.09)	180.86-378.95	375.31 (67.4)	247.36-503.25
Jun	34.56 (13.92)	8.64-60.48	42.99 (17.14)	17.2-77.39	76.8 (24.44)	34.13-128.01
Jul	43.76 (13.61)	17.5-70.01	70.09 (27.01)	26.28-131.42	87.27 (27.19)	34.91-148.36
Aug	85.47 (24.91)	42.74-136.76	119.99 (31.22)	59.99-179.98	145.11 (35.49)	76.82-213.39
Sep	261.63 (46.53)	174.42-348.84	312.22 (51.37)	225.28-416.51	449.09 (50.9)	345.46-544.1
Oct	453.78 (69.73)	325.35-599.33	753 (88.61)	581.65-924.14	1109.89 (108.05)	904.99-1306.47
Nov	111.64 (28.75)	60.11-171.75	181.21 (42.06)	103.55-267.5	319.99 (63.29)	207.56-458.36
Dec	9.09 (7.71)	0-27.28	9.07 (7.78)	0-27.22	8.97 (8.14)	0-26.91

Table 9. Dogger Bank South - East. Monthly abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	93.24 (32.34)	33.9-161.04	134.56 (39.67)	58.87-218.66	217.45 (63.64)	108.73-343.12
Feb	8.65 (8.61)	0-25.94	17.21 (12.43)	0-43.04	34.1 (16.7)	8.53-68.2
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	8.62 (8.43)	0-25.85
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	51.84 (50.98)	0-155.53	51.59 (51.9)	0-154.78	68.27 (53.68)	0-204.81
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	17.18 (11.91)	0-42.94	17.26 (11.95)	0-43.15	34.59 (17.31)	8.65-69.19
Dec	9.09 (8.83)	0-27.28	9.07 (9.05)	0-27.22	26.91 (15.45)	0-62.78

Table 10. Dogger Bank South - East. Monthly abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	8.55 (8.42)	0-25.64	8.57 (7.99)	0-25.71	8.54 (8.33)	0-25.61
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 11. Dogger Bank South - East. Monthly abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	389.9 (67.1)	262.76-517.04	1084.89 (202.69)	748.49-1514.01	1781.45 (248.23)	1321.45-2300.2
Feb	1988.56 (308.95)	1461.16-2637	2625.23 (262.67)	2134.62-3167.5	3853.51 (294.39)	3316.41-4459.03
Mar	5453.24 (688.5)	4074.76-6832.15	7141.87 (659.67)	5772.08-8408.49	13037.77 (1609.48)	9814.54-16338.57
Apr	2445.86 (361.85)	1764.51-3214.77	5295.52 (1415.04)	3136.8-8450.52	8641.66 (1577.71)	6220.4-12114.04
May	294.2 (75.57)	164.41-441.52	353.11 (74.74)	215.31-499.73	486.19 (72.35)	358.04-631.2
Jun	138.25 (43.24)	60.48-224.65	257.97 (49.34)	163.38-352.55	503.49 (102.94)	315.75-717.05
Jul	3220.5 (318.15)	2625.41-3868.1	4529.5 (412.56)	3776.05-5379.33	6859.35 (641.6)	5707.18-8264.6
Aug	1658.18 (362.72)	974.18-2367.6	2476.89 (427.71)	1756.53-3342.73	3678.86 (529.44)	2722.87-4771.64
Sep	1691.89 (272.04)	1159.9-2215.15	3590.54 (371.8)	2948.76-4293.04	5337.32 (698.15)	4033.21-6701.87
Oct	496.59 (71.17)	359.6-633.79	907.02 (110.99)	701.45-1138.27	1716.07 (340.03)	1152.58-2441.98
Nov	7007.44 (658.09)	5710.72-8270.02	9362.63 (546.09)	8275.14-10432.86	12782.29 (656.85)	11493.68-14106.13
Dec	927.68 (126.62)	673.02-1164.14	1252.05 (148.79)	979.87-1551.68	2152.48 (296.41)	1641.27-2762.35

Table 12. Dogger Bank South - East. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	788.27 (135.66)	531.23-1045.32	2060.46 (384.95)	1421.56-2875.45	3470.89 (483.64)	2574.65-4481.61
Feb	4409.41 (685.06)	3239.96-5847.26	5827.16 (583.04)	4738.15-7030.8	8201.5 (626.55)	7058.37-9490.24
Mar	8981.8 (1134)	6711.36-11252.96	11983.52 (1106.88)	9685.11-14108.82	20640.99 (2548.08)	15538.08-25866.72
Apr	3834.76 (567.33)	2766.5-5040.31	8242.29 (2202.46)	4882.31-13152.93	13880.07 (2534.09)	9991.09-19457.35
May	328.82 (84.46)	183.75-493.47	413.4 (87.5)	252.07-585.06	562.96 (83.77)	414.57-730.86
Jun	181.45 (56.75)	79.38-294.85	300.96 (57.56)	190.61-411.31	588.83 (120.39)	369.27-838.58
Jul	3369.28 (332.85)	2746.69-4046.79	4731.01 (430.92)	3944.03-5618.65	7138.61 (667.72)	5939.53-8601.07
Aug	2367.6 (517.9)	1390.97-3380.55	3582.49 (618.63)	2540.59-4834.81	5377.45 (773.89)	3980.07-6974.78
Sep	2058.17 (330.93)	1411.01-2694.72	4327.73 (448.13)	3554.18-5174.46	6321.87 (826.94)	4777.21-7938.14
Oct	770.57 (110.43)	558-983.47	1369.09 (167.54)	1058.79-1718.15	2535.68 (502.44)	1703.07-3608.3
Nov	9841.33 (924.23)	8020.2-11614.51	13892.93 (810.33)	12279.24-15481.01	18983.16 (975.49)	17069.44-20949.23
Dec	2155.48 (294.2)	1563.78-2704.92	2966.82 (352.56)	2321.86-3676.81	5085.24 (700.26)	3877.49-6526.06

Table 13. Dogger Bank South - East. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1000.17 (172.13)	674.03-1326.32	2665.98 (498.08)	1839.32-3720.49	4507.98 (628.16)	3343.95-5820.69
Feb	5766.81 (895.95)	4237.35-7647.29	7626.09 (763.03)	6200.89-9201.32	10742.09 (820.63)	9244.85-12430.04
Mar	11504.68 (1452.53)	8596.5-14413.78	15369.23 (1419.6)	12421.45-18095	26658.42 (3290.92)	20067.87-33407.6
Apr	4987.8 (737.91)	3598.34-6555.84	10747.05 (2871.76)	6366-17149.99	18084.58 (3301.71)	13017.56-25351.32
May	424 (108.91)	236.94-636.31	525.36 (111.2)	320.34-743.51	725.03 (107.89)	533.91-941.26
Jun	241.93 (75.66)	105.84-393.14	395.55 (75.65)	250.51-540.58	768.04 (157.03)	481.65-1093.8
Jul	4401.94 (434.86)	3588.54-5287.11	6185.36 (563.39)	5156.46-7345.86	9346.52 (874.24)	7776.58-11261.31
Aug	3102.67 (678.69)	1822.82-4430.1	4696.66 (811.03)	3330.73-6338.46	7050.44 (1014.65)	5218.31-9144.72
Sep	2694.81 (433.3)	1847.47-3528.25	5672.02 (587.33)	4658.18-6781.76	8290.98 (1084.51)	6265.19-10410.68
Oct	1010.3 (144.79)	731.6-1289.44	1788.38 (218.85)	1383.04-2244.33	3312.6 (656.38)	2224.88-4713.87
Nov	12872.73 (1208.92)	10490.64-15192.11	18155.73 (1058.96)	16046.9-20231.09	24829.46 (1275.92)	22326.36-27401.02
Dec	2828.5 (386.05)	2052.05-3549.5	3892.25 (462.54)	3046.11-4823.71	6663.72 (917.62)	5081.09-8551.78

Table 14. Dogger Bank South - East. Monthly abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	26.01 (15.94)	0-60.69	34.46 (16.83)	8.62-68.92	34.29 (17.5)	8.57-77.15
Apr	0 (0)	0-0	8.67 (8.77)	0-26	8.62 (8.65)	0-25.85
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	138.25 (142.3)	0-414.74	137.58 (139.32)	0-412.74	145.07 (133.53)	0-426.69
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	8.59 (8.34)	0-25.76	8.63 (8.49)	0-25.89	25.95 (18.11)	0-69.19
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 15. Dogger Bank South - East. Monthly abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	991.7 (193.76)	627.23-1347.9	1631.55 (211.96)	1227.65-2027.03	2207.99 (224.51)	1789.81-2626.17
Feb	449.59 (87)	293.74-639.8	628.33 (82.51)	482.01-800.48	937.8 (120.49)	724.66-1176.51
Mar	11851.47 (1549.37)	8912.23-14938.1	14214.81 (1592.92)	10990.85- 17325.49	15849.33 (1673.79)	12779.97- 19245.07
Apr	1755.78 (498.48)	925.93-2830.21	2548.09 (585.75)	1611.84-3900.14	3317.09 (594.32)	2274.36- 4696.05
May	822.04 (137.83)	571.1-1107.59	1042.1 (159.06)	740.45-1369.37	1475.64 (181.02)	1125.93-1842.64
Jun	259.21 (142.21)	43.2-553.2	292.36 (156.87)	68.79-644.91	401.09 (160.77)	153.61-750.97
Jul	61.26 (21.02)	26.25-105.02	96.37 (28.26)	43.81-157.7	872.69 (653.17)	104.72-2303.9
Aug	247.87 (157.65)	17.09-606.86	359.96 (221.2)	42.85-857.05	426.78 (216.93)	93.89-930.39
Sep	688.96 (219.88)	313.96-1142.68	945.34 (240.91)	555.06-1448.58	1312.74 (235.71)	880.7-1796.59
Oct	547.96 (108.31)	351.04-770.57	1591.57 (607.35)	624.65-2952.53	2194.17 (689.99)	1066.78- 3680.36
Nov	815.82 (119.33)	592.54-1064.86	1035.5 (143.82)	785.04-1311.63	1392.39 (152.39)	1124.29-1712.38
Dec	190.99 (53.32)	90.95-300.13	217.75 (57.05)	117.95-344.77	295.97 (64.47)	179.37-430.5

Table 16. Dogger Bank South - East. Monthly abundance of Large gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	8.53 (8.33)	0-25.59
Jun	34.56 (34.54)	0-103.68	34.4 (32.2)	0-103.19	34.13 (33.08)	0-102.41
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 17. Dogger Bank South - East. Monthly abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	8.67 (8.52)	0-26.01	8.62 (8.37)	0-25.85	8.57 (8.44)	0-25.72
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.65 (8.28)	0-25.96	8.61 (8.38)	0-25.84	8.53 (8.71)	0-25.59
Jun	86.4 (88.43)	0-259.21	85.99 (80.86)	0-257.97	85.34 (84.95)	0-256.01
Jul	0 (0)	0-0	8.76 (8.59)	0-26.28	17.45 (11.89)	0-43.63
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	8.54 (8.36)	0-25.61
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 18. Dogger Bank South - East. Monthly abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	242.84 (175.69)	8.67-633.12	293.64 (194.53)	34.55-725.68
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 19. Dogger Bank South - East. Monthly abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	86.7 (32.73)	26.01-156.05	94.77 (32.18)	34.46-163.69	137.15 (18.72)	94.29-171.44
Apr	52.41 (22.79)	8.74-96.31	69.34 (24.49)	26-121.34	163.7 (25.51)	112.01-215.4
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	35.01 (31.12)	0-105.02	35.04 (32.48)	0-105.13	34.91 (22.58)	0-69.82
Aug	0 (0)	0-0	0 (0)	0-0	17.07 (10.72)	0-34.14
Sep	8.72 (7.99)	0-26.16	17.35 (10.87)	0-43.36	25.91 (8.46)	8.64-43.18
Oct	282.54 (67.77)	162.68-428.09	342.27 (74.83)	205.36-496.3	426.88 (68.51)	298.82-563.48
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 20. Dogger Bank South - East. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	86.7 (32.73)	26.01-156.05	94.77 (32.18)	34.46-163.69	137.15 (18.72)	94.29-171.44
Apr	52.41 (22.79)	8.74-96.31	69.34 (24.49)	26-121.34	163.7 (25.51)	112.01-215.4
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	35.01 (31.12)	0-105.02	35.04 (32.48)	0-105.13	34.91 (22.58)	0-69.82
Aug	0 (0)	0-0	0 (0)	0-0	17.07 (10.72)	0-34.14
Sep	8.72 (7.99)	0-26.16	17.35 (10.87)	0-43.36	25.91 (8.46)	8.64-43.18
Oct	333.91 (80.1)	192.25-505.93	393.61 (86.05)	236.17-570.74	486.65 (78.11)	340.65-642.37
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 21. Dogger Bank South - East. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	95.37 (36)	28.61-171.66	112 (38.03)	40.73-193.45	154.29 (21.07)	106.08-192.87
Apr	61.15 (26.58)	10.19-112.36	78 (27.55)	29.25-136.5	189.55 (29.54)	129.69-249.4
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	43.76 (38.9)	0-131.27	43.81 (40.61)	0-131.42	43.63 (28.22)	0-87.27
Aug	0 (0)	0-0	0 (0)	0-0	17.07 (10.72)	0-34.14
Sep	8.72 (7.99)	0-26.16	17.35 (10.87)	0-43.36	25.91 (8.46)	8.64-43.18
Oct	385.28 (92.42)	221.83-583.76	462.07 (101.02)	277.24-670	563.48 (90.44)	394.44-743.8
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 22. Dogger Bank South - East. Monthly abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	339.04 (79.06)	186.47-491.61	740.08 (200.38)	412.09-1168.99	978.54 (212.9)	601.97-1430.18
Feb	302.61 (69.63)	164.27-432.29	361.51 (72.37)	223.79-516.44	443.32 (82.23)	298.18-614.05
Mar	3095.08 (469.28)	2158.75-3970.72	4023.22 (427)	3195.96- 4902.39	4774.52 (470.06)	3891.4-5700.27
Apr	297 (78.16)	148.5-454.23	780.03 (263.93)	346.68-1369.38	1542.23 (378.22)	878.38-2292.02
May	250.94 (53.84)	147.1-354.78	284.21 (63.74)	163.64-413.4	349.72 (81.3)	196.18-511.78
Jun	8.64 (6.71)	0-25.92	34.4 (18)	0-68.79	51.2 (23.03)	8.53-93.87
Jul	17.5 (7.54)	0-35.01	35.04 (16.07)	8.76-70.09	34.91 (19.09)	0-78.54
Aug	179.49 (39.27)	102.57-256.42	342.82 (61.8)	231.19-471.38	384.1 (91.66)	230.46-588.96
Sep	261.63 (67.9)	139.32-392.45	320.89 (80.54)	164.78-468.55	397.28 (86.98)	241.6-578.86
Oct	42.81 (19.08)	8.56-77.06	359.39 (150.26)	59.9-633.2	512.26 (220.42)	145.14-998.9
Nov	1786.21 (167.71)	1459.88-2104.16	2165.92 (208.58)	1777.39-2597.59	2776.13 (242.3)	2317.55-3252
Dec	45.47 (18.45)	17.96-82.08	199.6 (68.07)	81.66-335.92	251.12 (73.84)	107.62-403.59

Table 23. Dogger Bank South - East. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	686.56 (160.1)	377.61-995.51	1404.47 (380.27)	782.04-2218.43	1906.9 (414.88)	1173.07-2787.01
Feb	674.38 (155.17)	366.09-963.4	800.48 (160.24)	495.54-1143.54	937.8 (173.96)	630.76-1298.94
Mar	5097.78 (772.94)	3555.59-6540.01	6745.58 (715.93)	5358.54-8219.64	7560.36 (744.34)	6161.97-9026.29
Apr	462.97 (121.83)	231.48-708.07	1213.38 (410.56)	539.28-2130.15	2472.74 (606.43)	1408.35-3674.92
May	276.9 (59.41)	162.32-391.48	318.66 (71.47)	183.47-463.5	409.43 (95.18)	229.68-599.16
Jun	8.64 (6.71)	0-25.92	42.99 (22.49)	0-85.99	59.74 (26.87)	9.96-109.52
Jul	17.5 (7.54)	0-35.01	35.04 (16.07)	8.76-70.09	34.91 (19.09)	0-78.54
Aug	256.42 (56.09)	146.53-366.31	497.09 (89.61)	335.23-683.5	563.35 (134.43)	338.01-863.81
Sep	313.96 (81.48)	167.18-470.94	390.28 (97.95)	200.41-569.86	475 (104)	288.87-692.11
Oct	68.49 (30.52)	13.7-123.29	539.08 (225.39)	89.85-949.81	759.85 (326.95)	215.29-1481.71
Nov	2516.15 (236.24)	2056.47-2964.04	3210.04 (309.12)	2634.22-3849.81	4125.27 (360.05)	3443.83-4832.41
Dec	100.04 (40.59)	39.52-180.58	480.86 (163.99)	196.72-809.27	591.93 (174.05)	253.69-951.32

Table 24. Dogger Bank South - East. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	830.65 (193.7)	456.86-1204.44	1690.42 (457.69)	941.25-2670.09	2291.63 (498.58)	1409.74-3349.3
Feb	812.71 (187)	441.19-1161.02	972.63 (194.7)	602.1-1389.47	1125.36 (208.75)	756.91-1558.73
Mar	6103.46 (925.42)	4257.04-7830.21	8089.52 (858.57)	6426.15-9857.26	9077.58 (893.71)	7398.55-10837.68
Apr	559.05 (147.12)	279.53-855.02	1464.72 (495.6)	650.99-2571.4	2989.69 (733.21)	1702.78-4443.19
May	328.82 (70.55)	192.75-464.88	378.95 (84.99)	218.18-551.19	486.19 (113.02)	272.74-711.5
Jun	8.64 (6.71)	0-25.92	51.59 (26.99)	0-103.19	68.27 (30.7)	11.38-125.16
Jul	17.5 (7.54)	0-35.01	43.81 (20.09)	10.95-87.61	43.63 (23.86)	0-98.18
Aug	307.7 (67.31)	175.83-439.58	599.94 (108.15)	404.58-824.92	682.85 (162.94)	409.71-1047.04
Sep	383.73 (99.59)	204.33-575.59	468.33 (117.54)	240.49-683.83	578.64 (126.69)	351.9-843.12
Oct	85.62 (38.16)	17.12-154.11	650.32 (271.9)	108.39-1145.8	913.53 (393.08)	258.83-1781.38
Nov	3048.58 (286.23)	2491.63-3591.24	3883.12 (373.94)	3186.55-4657.03	4998.76 (436.29)	4173.03-5855.63
Dec	118.23 (47.96)	46.7-213.41	580.66 (198.02)	237.54-977.23	717.49 (210.96)	307.5-1153.12

Table 25. Dogger Bank South - East. Monthly abundance of Small gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	51.28 (52.5)	0-153.85	51.42 (51.19)	0-154.27	51.21 (52.8)	0-153.64
Sep	34.88 (21.37)	0-78.49	34.69 (21.57)	0-78.06	34.55 (21.27)	0-86.36
Oct	0 (0)	0-0	17.11 (12.01)	0-42.78	42.69 (19.48)	8.54-85.38
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	9.09 (8.99)	0-27.28	9.07 (9.22)	0-27.22	8.97 (8.88)	0-26.91

Table 26. Dogger Bank South - West. Monthly abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	9.52 (9.79)	0-28.57	9.83 (9.67)	0-29.5	9.8 (9.25)	0-29.4
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 27. Dogger Bank South - West. Monthly abundance of Commic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	161.88 (135.07)	0-466.84	176.99 (132.46)	9.83-462.15	186.19 (137.79)	9.8-480.18
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 28. Dogger Bank South - West. Monthly abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	8.46 (8.78)	0-25.39	8.38 (8.51)	0-25.14
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. Dogger Bank South - West. Monthly abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.16 (8.03)	0-24.47	8.49 (8.18)	0-25.48	8.46 (8.56)	0-25.39
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 30. Dogger Bank South - West. Monthly abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	57.06 (26.27)	8.15-114.11	59.59 (28)	8.51-119.18	59.36 (27.02)	16.96-110.44
Feb	55.62 (20.48)	23.84-95.35	91.13 (30.43)	33.14-157.41	91.01 (28.81)	41.37-148.93
Mar	66.21 (29.24)	16.55-124.14	78.02 (29.86)	26.01-147.37	77.16 (28.17)	25.72-137.17
Apr	161.83 (141.05)	0-550.44	169.4 (144.54)	0-474.31	184.5 (136.75)	8.39-486.41
May	73.41 (28.49)	24.47-138.65	101.9 (32.18)	42.46-169.83	135.41 (39.38)	67.71-220.05
Jun	57.51 (25.61)	16.43-115.03	77.06 (32.58)	25.69-154.12	76.58 (31.63)	25.53-144.65
Jul	9.52 (9.2)	0-28.57	19.67 (13.69)	0-49.16	29.4 (15.86)	0-68.6
Aug	179.45 (41.71)	106.04-261.02	289.55 (59.74)	178.84-417.29	344.84 (65.59)	227.09-479.63
Sep	64.28 (22.23)	24.1-112.49	109.56 (31.78)	50.57-176.98	158.9 (40)	92-242.54
Oct	32.62 (15.98)	8.15-65.24	51.39 (22.86)	17.13-102.78	279.41 (181.2)	42.33-702.76
Nov	130.33 (34.83)	65.16-203.63	245.42 (70.22)	126.94-397.95	351.91 (75.14)	226.23-511.11
Dec	16.41 (16.52)	0-49.22	17.01 (17.72)	0-68.03	16.95 (16.72)	0-50.85

Table 31. Dogger Bank South - West. Monthly abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	16.57 (10.48)	0-33.14	16.55 (11.42)	0-33.09
Mar	140.69 (35.42)	74.48-206.9	208.06 (37.52)	138.7-277.63	325.78 (57.46)	214.33-437.23
Apr	485.5 (91.3)	323.47-671.61	635.24 (86.99)	465.84-796.37	704.45 (81.41)	553.5-855.41
May	481.21 (99.91)	309.93-693.27	653.86 (109.41)	441.57-874.65	829.41 (127.46)	567.05-1066.39
Jun	41.08 (12.91)	16.43-65.73	85.62 (18.16)	51.37-119.87	102.1 (23.67)	59.56-144.65
Jul	85.7 (33.53)	28.57-152.36	88.5 (36.87)	19.67-157.33	98 (38.69)	29.4-166.59
Aug	326.28 (48.72)	236.55-424.16	459.87 (56.62)	340.65-570.58	504.65 (59.84)	386.9-622.4
Sep	224.97 (30.26)	168.73-289.25	345.53 (31.9)	286.54-404.73	501.8 (44.66)	417.95-585.43
Oct	301.74 (54.16)	195.72-407.75	393.98 (59.5)	282.64-513.89	533.42 (60.4)	414.88-643.49
Nov	252.51 (66.8)	122.18-382.83	296.19 (49.93)	203.1-397.74	326.78 (58.75)	217.85-444.08
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 32. Dogger Bank South - West. Monthly abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	40.75 (20.76)	8.15-81.71	85.13 (33.73)	25.54-161.75	127.19 (42.01)	50.88-220.47
Feb	15.89 (10.83)	0-39.73	33.14 (16.45)	8.28-66.28	66.19 (22.48)	24.82-115.83
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	8.39 (8.17)	0-25.16
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	16.43 (15.36)	0-49.3	17.12 (16.77)	0-51.37	17.02 (17.42)	0-68.07
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	8.15 (7.95)	0-24.46	8.56 (8.18)	0-25.69	8.47 (8.29)	0-25.4
Nov	24.44 (13.72)	0-57.02	25.39 (15.31)	0-59.24	25.14 (14.35)	0-58.65
Dec	32.81 (34.16)	0-131.24	42.52 (35.14)	0-127.56	42.37 (33.17)	0-118.64

Table 33. Dogger Bank South - West. Monthly abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	8.22 (8.65)	0-32.87	8.56 (8.07)	0-25.69	8.51 (8.18)	0-25.53
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 34. Dogger Bank South - West. Monthly abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	8.03 (8.46)	0-24.31	8.43 (8.1)	0-25.28	8.36 (8.79)	0-25.3
Oct	8.15 (7.7)	0-24.46	8.56 (8.43)	0-25.69	8.47 (8.38)	0-25.4
Nov	16.29 (10.89)	0-40.73	16.93 (11.95)	0-42.31	16.76 (11.55)	0-41.89
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 35. Dogger Bank South - West. Monthly abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	855.85 (136.94)	586.87-1100.58	1583.45 (169.14)	1276.98-1915.68	2043.54 (179.73)	1704.15-2399.89
Feb	1279.27 (113.85)	1064.74-1517.65	1781.18 (138.43)	1507.79-2054.57	2804.8 (162.47)	2482.12-3127.68
Mar	5627.68 (1099.54)	3517.1-7746.55	9405.91 (1511.92)	6623.15-12431.83	12208.23 (1424.86)	9292.49-14994.95
Apr	4523.28 (523.33)	3535.69-5542.84	6149.08 (482.01)	5166.37-7055.34	7321.28 (578.67)	6231.06-8428.28
May	872.71 (142.85)	587.24-1133.71	1392.64 (160.77)	1086.94-1707.05	1845.02 (169.52)	1514.95-2166.63
Jun	944.88 (155.34)	649.09-1240.67	1464.12 (166.95)	1121.63-1789.69	1795.33 (197.85)	1412.44-2203.75
Jul	5484.97 (396.96)	4713.64-6256.29	6932.24 (360.37)	6135.77-7601.13	8917.7 (445.88)	8074.93-9780.07
Aug	1835.3 (238.46)	1362-2300.25	2648.53 (236.51)	2197.17-3099.88	4398.85 (318.19)	3801.48-5021.25
Sep	1100.76 (205.16)	715.09-1494.46	1457.97 (170.53)	1129.09-1803.71	3428.94 (389.73)	2617.71-4206.73
Oct	782.88 (87.4)	611.63-954.34	1147.68 (94.75)	967.82-1336.11	1583.32 (116.24)	1363.18-1820.61
Nov	3078.94 (286.05)	2549.49-3665.6	4544.41 (298.74)	3985.88-5119.87	5965.75 (340.94)	5303.61-6661.41
Dec	853.06 (201.87)	475.75-1238.58	1054.49 (165.19)	731.34-1377.64	1279.66 (172.42)	923.73-1635.59

Table 36. Dogger Bank South - West. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	2054.04 (328.65)	1408.48-2641.39	3464.87 (370.12)	2794.25-4191.84	4494.1 (395.26)	3747.73-5277.77
Feb	2773.09 (246.79)	2308.03- 3289.81	3653.5 (283.94)	3092.73-4214.27	5502.04 (318.71)	4869.06- 6135.42
Mar	8772.57 (1713.99)	5482.53-12075.5	14312.58 (2300.62)	10078.17- 18917.01	18629.55 (2174.31)	14180.18- 22882.04
Apr	7994.64 (924.96)	6249.12- 9796.65	10612.66 (831.91)	8916.61- 12176.79	12487.28 (986.98)	10627.77- 14375.39
May	1011.37 (165.54)	680.54-1313.83	1604.93 (185.28)	1252.63-1967.27	2115.85 (194.4)	1737.33-2484.67
Jun	1010.61 (166.15)	694.25-1326.98	1549.74 (176.71)	1187.23-1894.35	1897.44 (209.1)	1492.77-2329.08
Jul	5732.55 (414.88)	4926.41- 6538.69	7217.39 (375.2)	6388.16-7913.8	9309.69 (465.48)	8429.87- 10209.96
Aug	2234.99 (290.4)	1658.61-2801.19	3236.14 (288.98)	2684.64- 3787.64	5509.08 (398.5)	4760.93- 6288.57
Sep	1333.77 (248.59)	866.46-1810.81	1879.35 (219.82)	1455.41-2325.02	4139.82 (470.53)	3160.4-5078.85
Oct	1280.34 (142.93)	1000.26-1560.74	1841.43 (152.03)	1552.85-2143.76	2548.56 (187.1)	2194.21-2930.5
Nov	4593.97 (426.81)	3804-5469.31	6685.45 (439.48)	5863.77-7532.02	8638.61 (493.69)	7679.81- 9645.95
Dec	2034.22 (481.38)	1134.47-2953.54	2491.66 (390.33)	1728.09-3255.23	3211.85 (432.76)	2318.49-4105.22

Table 37. Dogger Bank South - West. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	2673.51 (427.77)	1833.26-3438	4511.99 (481.97)	3638.7-5458.66	5825.37 (512.35)	4857.9-6841.19
Feb	3623.29 (322.46)	3015.66-4298.43	4780.2 (371.5)	4046.49-5513.9	7206.43 (417.43)	6377.37-8036.02
Mar	11329.85 (2213.64)	7080.74-15595.63	18491.06 (2972.28)	13020.43-24439.73	24099.25 (2812.69)	18343.53-29600.28
Apr	10462.62 (1210.5)	8178.25-12820.92	13873.53 (1087.52)	11656.35-15918.26	16328.23 (1290.57)	13896.76-18797.1
May	1313.14 (214.94)	883.61-1705.86	2071.98 (239.2)	1617.15-2539.75	2742.14 (251.95)	2251.58-3220.13
Jun	1322.84 (217.48)	908.73-1736.94	2029.21 (231.38)	1554.54-2480.45	2484.54 (273.8)	1954.66-3049.74
Jul	7503.74 (543.07)	6448.53-8558.95	9439.64 (490.72)	8355.09-10350.47	12180.99 (609.05)	11029.82-13358.93
Aug	2928.33 (380.48)	2173.15-3670.17	4241.05 (378.72)	3518.3-4963.8	7224.88 (522.61)	6243.72-8247.14
Sep	1751.57 (326.46)	1137.88-2378.05	2460.85 (287.84)	1905.74-3044.42	5427.77 (616.92)	4143.64-6658.94
Oct	1679.93 (187.54)	1312.45-2047.85	2415.27 (199.4)	2036.76-2811.81	3344.45 (245.53)	2879.45-3845.67
Nov	5986.82 (556.21)	4957.34-7127.56	8724.93 (573.55)	7652.59-9829.76	11277.96 (644.52)	10026.21-12593.06
Dec	2665.82 (630.84)	1486.71-3870.56	3265.52 (511.55)	2264.79-4266.24	4211.85 (567.49)	3040.34-5383.36

Table 38. Dogger Bank South - West. Monthly abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	8.15 (7.99)	0-24.45	8.51 (8.66)	0-25.54	8.48 (8.74)	0-25.44
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	8.57 (8.4)	0-25.72
Apr	8.09 (7.79)	0-24.28	8.47 (8.6)	0-25.41	8.39 (8.5)	0-25.16
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	8.22 (7.71)	0-24.65	8.56 (8.23)	0-25.69	17.02 (11.87)	0-42.54
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	25.14 (19.04)	0-67.03
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 39. Dogger Bank South - West. Monthly abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	855.85 (154.8)	570.57-1132.98	1294.01 (179.2)	944.96-1677.1	1729.8 (180.31)	1365.19-2094.63
Feb	500.59 (87.87)	341.67-675.39	704.19 (89.71)	530.21-878.16	1125.23 (108.69)	918.18-1340.35
Mar	2929.71 (537.68)	1919.83-4014.07	3675.67 (559.66)	2591.83-4733.29	5898.36 (588.36)	4757.91-7030.02
Apr	2419.43 (291.77)	1901.56-3026.72	3413.33 (356.79)	2744.22-4108.28	4008.68 (464.22)	3161.24-4922.79
May	1419.17 (151.29)	1125.55-1712.8	1978.57 (182.13)	1647.39-2343.71	2437.46 (165.27)	2149.49-2767.53
Jun	435.47 (104.63)	238.27-649.09	770.59 (163.22)	488.04-1104.51	1046.57 (175.92)	697.5-1395.42
Jul	333.29 (75.85)	180.93-485.65	422.82 (92.31)	245.82-599.81	499.78 (76.57)	352.79-656.58
Aug	122.35 (67.47)	16.11-236.55	144.77 (68.13)	34.06-255.48	235.5 (65.32)	117.75-361.66
Sep	216.94 (74.68)	80.15-353.73	294.97 (89.86)	134.84-463.52	501.8 (82.29)	334.53-660.7
Oct	538.23 (132.73)	293.58-799.19	685.18 (136.78)	419.68-942.13	795.89 (128.09)	524.95-1049.9
Nov	505.01 (92.24)	325.81-692.35	592.38 (86.05)	423.13-744.92	754.1 (78.53)	594.9-913.3
Dec	106.63 (57.73)	0-213.27	110.55 (59.87)	8.5-221.1	169.49 (50.12)	67.8-271.19

Table 40. Dogger Bank South - West. Monthly abundance of Large gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	8.28 (8.16)	0-24.83	8.67 (8.64)	0-26.01	17.15 (11.89)	0-42.87
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	8.03 (8.11)	0-24.1	8.43 (8.18)	0-25.28	8.36 (8.51)	0-25.09
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	8.15 (8.26)	0-24.44	8.46 (8.18)	0-25.39	8.38 (8.14)	0-25.14
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 41. Dogger Bank South - West. Monthly abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	17.13 (17.09)	0-51.39	16.93 (17)	0-50.8
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 42. Dogger Bank South - West. Monthly abundance of Little auk recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	16.41 (16.25)	0-49.22	34.02 (23.82)	0-85.04	42.37 (26.08)	0-101.69

Table 43. Dogger Bank South - West. Monthly abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	33.71 (32.66)	0-101.13	33.45 (33.3)	0-100.36
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 44. Dogger Bank South - West. Monthly abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	74.48 (23.27)	24.83-116.07	121.37 (22.42)	78.02-164.71	188.61 (20.77)	145.74-231.48
Apr	169.93 (23.87)	121.38-218.48	228.68 (24.04)	186.34-279.5	259.98 (26.43)	209.66-310.3
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	9.52 (6.49)	0-19.05	9.83 (6.91)	0-19.67	49 (16.17)	9.8-88.2
Aug	24.47 (12.51)	0-48.94	34.06 (17.82)	0-68.13	33.64 (8.87)	16.82-50.46
Sep	24.1 (12.13)	0-48.21	25.28 (17.45)	0-50.57	41.82 (12.26)	16.73-66.91
Oct	187.57 (44.84)	97.86-269.12	282.64 (47.98)	188.43-376.85	397.95 (42.23)	313.28-474.15
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 45. Dogger Bank South - West. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	74.48 (23.27)	24.83-116.07	121.37 (22.42)	78.02-164.71	188.61 (20.77)	145.74-231.48
Apr	169.93 (23.87)	121.38-218.48	228.68 (24.04)	186.34-279.5	259.98 (26.43)	209.66-310.3
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	9.52 (6.49)	0-19.05	9.83 (6.91)	0-19.67	49 (16.17)	9.8-88.2
Aug	24.47 (12.51)	0-48.94	34.06 (17.82)	0-68.13	33.64 (8.87)	16.82-50.46
Sep	24.1 (12.13)	0-48.21	25.28 (17.45)	0-50.57	41.82 (12.26)	16.73-66.91
Oct	195.72 (46.79)	102.11-280.82	299.77 (50.89)	199.85-399.69	414.88 (44.03)	326.61-494.33
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 46. Dogger Bank South - West. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	82.76 (25.86)	27.59-128.97	138.7 (25.63)	89.17-188.24	222.9 (24.55)	172.24-273.56
Apr	194.2 (27.28)	138.72-249.69	262.56 (27.6)	213.94-320.91	301.91 (30.7)	243.47-360.34
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	9.52 (6.49)	0-19.05	9.83 (6.91)	0-19.67	58.8 (19.4)	11.76-105.84
Aug	24.47 (12.51)	0-48.94	42.58 (22.28)	0-85.16	42.05 (11.09)	21.03-63.08
Sep	24.1 (12.13)	0-48.21	25.28 (17.45)	0-50.57	50.18 (14.71)	20.07-80.29
Oct	228.34 (54.59)	119.13-327.62	351.16 (59.62)	234.1-468.21	482.62 (51.22)	379.93-575.03
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 47. Dogger Bank South - West. Monthly abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	480.91 (100.91)	285.28-668.58	876.86 (148.69)	578.9-1166.31	1229.52 (179.95)	873.38-1568.7
Feb	198.65 (48.97)	103.3-294.19	265.11 (36.58)	190.55-331.38	546.07 (192.16)	206.84-868.74
Mar	620.7 (103.36)	421.87-819.32	962.26 (88.48)	788.88-1135.86	1543.18 (151.73)	1260.26-1843.24
Apr	1472.7 (245.52)	986.99-1933.93	1922.64 (205.21)	1498.94-2303.79	2063.04 (228.13)	1609.97-2482.36
May	358.87 (74.79)	212.06-497.53	467.04 (82.47)	305.7-620.11	643.22 (87.76)	465.49-812.7
Jun	16.43 (11.47)	0-32.87	25.69 (12.36)	0-51.37	42.54 (17.51)	8.51-76.58
Jul	47.61 (20.07)	9.52-85.7	49.16 (19.67)	9.83-88.5	58.8 (21.99)	9.8-98
Aug	97.88 (43.8)	16.31-171.3	161.81 (66.21)	34.06-281.03	294.38 (60.95)	185.04-412.13
Sep	72.31 (21.63)	32.14-112.49	109.56 (23.01)	67.42-151.7	234.17 (55.44)	125.45-342.89
Oct	187.57 (47.3)	97.86-277.27	376.85 (73.75)	239.81-522.67	457.22 (92.34)	279.2-635.02
Nov	171.05 (43.19)	81.45-252.51	211.56 (45.32)	118.48-296.19	293.26 (54.96)	184.34-393.81
Dec	533.16 (140.02)	270.68-804.05	637.8 (134.47)	391.18-918.43	694.91 (152.75)	398.09-991.52

Table 48. Dogger Bank South - West. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1149.28 (241.15)	681.78-1597.79	1923.98 (326.26)	1270.2-2559.08	2704.94 (395.88)	1921.44-3451.13
Feb	429.07 (105.78)	223.12-635.46	546.78 (75.45)	393-683.48	1075.59 (378.49)	407.42-1711.16
Mar	968.29 (161.24)	658.12-1278.15	1465.07 (134.71)	1201.09-1729.37	2357.63 (231.81)	1925.4-2816.06
Apr	2605.54 (434.38)	1746.21-3421.56	3320.16 (354.36)	2588.48-3978.34	3522.27 (389.49)	2748.73-4238.18
May	415.96 (86.69)	245.8-576.68	534.98 (94.47)	350.17-710.3	736.32 (100.46)	532.86-930.33
Jun	16.43 (11.47)	0-32.87	25.69 (12.36)	0-51.37	42.54 (17.51)	8.51-76.58
Jul	47.61 (20.07)	9.52-85.7	49.16 (19.67)	9.83-88.5	58.8 (21.99)	9.8-98
Aug	114.2 (51.1)	19.03-199.84	195.87 (80.15)	41.24-340.2	361.66 (74.88)	227.33-506.33
Sep	88.38 (26.44)	39.28-137.48	143.27 (30.08)	88.17-198.37	275.99 (65.34)	147.85-404.13
Oct	309.89 (78.15)	161.68-458.1	608.1 (119.01)	386.97-843.39	736.63 (148.78)	449.82-1023.09
Nov	252.51 (63.75)	120.24-372.75	304.65 (65.26)	170.61-426.51	418.94 (78.52)	263.34-562.58
Dec	1279.59 (336.05)	649.64-1929.72	1513.7 (319.14)	928.4-2179.73	1754.23 (385.6)	1004.94-2502.99

Table 49. Dogger Bank South - West. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1393.81 (292.46)	826.84-1937.75	2332.62 (395.55)	1539.98-3102.6	3273.06 (479.03)	2325-4175.98
Feb	508.53 (125.37)	264.44-753.14	654.48 (90.31)	470.41-818.1	1298.98 (457.1)	492.04-2066.55
Mar	1166.92 (194.31)	793.11-1540.33	1768.48 (162.61)	1449.84-2087.53	2820.58 (277.33)	2303.47-3369.03
Apr	3155.78 (526.11)	2114.98-4144.13	4014.69 (428.49)	3129.95-4810.55	4260.27 (471.09)	3324.65-5126.17
May	489.37 (101.98)	289.17-678.45	636.88 (112.46)	416.87-845.6	880.19 (120.09)	636.98-1112.11
Jun	16.43 (11.47)	0-32.87	34.25 (16.48)	0-68.5	51.05 (21.01)	10.21-91.89
Jul	57.14 (24.08)	11.43-102.84	59 (23.6)	11.8-106.2	68.6 (25.65)	11.43-114.33
Aug	138.67 (62.05)	23.11-242.67	238.45 (97.57)	50.2-414.15	437.36 (90.55)	274.91-612.31
Sep	104.45 (31.25)	46.42-162.48	176.98 (37.16)	108.91-245.05	334.53 (79.19)	179.21-489.85
Oct	375.13 (94.6)	195.72-554.54	736.57 (144.15)	468.73-1021.58	889.03 (179.56)	542.89-1234.77
Nov	309.52 (78.15)	147.39-456.91	363.89 (77.95)	203.78-509.45	502.73 (94.22)	316-675.1
Dec	1550.28 (407.13)	787.06-2337.93	1836.85 (387.27)	1126.6-2645.07	2127.11 (467.56)	1218.55-3035.02

Table 50. Dogger Bank South - West. Monthly abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.16 (8.25)	0-24.47	8.49 (8.3)	0-25.48	8.46 (8.76)	0-25.39
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 51. Dogger Bank South - West. Monthly abundance of Skua species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	16.31 (16.25)	0-48.93	17.13 (16.64)	0-51.39	16.93 (16.97)	0-50.8
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 52. Dogger Bank South - West. Monthly abundance of Small gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	8.43 (8.41)	0-25.28	25.09 (18.87)	0-66.91
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 53. Dogger Bank South - East & West. Monthly abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	8.33 (8.46)	0-24.99
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	8.56 (8.59)	0-25.08	8.36 (8.76)	0-33.45	8.36 (8.2)	0-25.08
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 54. Dogger Bank South - East & West. Monthly abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	27.03 (19.62)	0-73.1	27.19 (19.37)	0-72.51	27.17 (18.77)	0-72.46
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 55. Dogger Bank South - East & West. Monthly abundance of Black-backed gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	86.4 (85.72)	0-252.85	83.83 (81.7)	0-251.49	83.83 (83.83)	0-251.49
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 56. Dogger Bank South - East & West. Monthly abundance of Commic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	188.14 (130.71)	18.27-484.71	190.34 (122.9)	27.19-471.32	199.27 (136.16)	27.17-534.41
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 57. Dogger Bank South - East & West. Monthly abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	8.55 (8.15)	0-25.06	8.35 (8.12)	0-25.06	8.33 (8.2)	0-24.99
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	17.18 (16.49)	0-50.2	33.4 (19.81)	0-75.15	33.48 (20.19)	0-75.33
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 58. Dogger Bank South - East & West. Monthly abundance of Common scoter recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	17.09 (16.22)	0-50.11	16.7 (16.73)	0-50.11	16.66 (17)	0-49.97
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 59. Dogger Bank South - East & West. Monthly abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.16 (8.14)	0-25.21	8.37 (8.59)	0-25.11	8.36 (7.86)	0-25.08
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 60. Dogger Bank South - East & West. Monthly abundance of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	116.39 (37.14)	49.88-199.52	140.74 (36.58)	74.51-215.25	140.71 (36.57)	74.5-215.21
Feb	107.5 (28.06)	58.07-165.92	140.55 (32.47)	82.68-214.97	157.11 (32.88)	99.23-223.26
Mar	66.21 (27.64)	25.42-127.09	76.05 (27.35)	25.35-135.2	75.92 (25.29)	33.74-126.53
Apr	170.57 (135.9)	8.41-471.15	184.08 (126.32)	16.73-476.94	242.14 (128.11)	50.1-526.03
May	90.71 (30.52)	33.62-151.28	125.54 (28)	66.96-184.13	167.22 (36.21)	100.33-242.47
Jun	92.08 (34.68)	33.71-168.57	108.98 (33.8)	50.3-176.04	108.98 (32.13)	50.3-176.04
Jul	18.27 (12.95)	0-45.68	36.26 (16.05)	9.06-72.51	45.29 (16.68)	18.12-81.52
Aug	213.64 (49.71)	133.42-317.38	334.07 (63.48)	217.15-459.35	424.78 (69.76)	283.18-558.04
Sep	229.98 (47.22)	142.42-326.74	342.76 (60.21)	225.72-468.16	459.34 (74.34)	325.72-609.67
Oct	66.87 (27.3)	24.87-125.38	83.63 (25.7)	33.45-133.81	309.36 (165.18)	66.89-702.33
Nov	284.9 (61.4)	175.7-418.32	450.9 (71.05)	308.95-592.86	544.03 (78.19)	401.75-703.06
Dec	25.5 (18.79)	0-69.19	25.77 (16.52)	0-60.13	25.78 (15.79)	0-60.15

Table 61. Dogger Bank South - East & West. Monthly abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	16.54 (14.14)	0-49.61	24.81 (16.31)	0-57.88
Mar	851.61 (157.52)	516.84-1152.31	971.76 (137.9)	684.46-1242.17	1197.86 (149.48)	911.05-1476.44
Apr	808.71 (102.55)	614.18-1009.62	1037.56 (102.87)	836.74-1246.75	1202.36 (102.02)	1001.96-1386.05
May	645.62 (108.27)	445.45-874.08	862.06 (145.44)	594.23-1163.36	1053.51 (150.92)	777.59-1354.51
Jun	75.64 (17.6)	42.14-109.57	125.75 (29.72)	67.06-184.43	159.27 (34.01)	92.21-226.34
Jul	129.46 (37.52)	54.82-201.01	135.96 (46.08)	54.38-226.82	163.04 (48.05)	72.46-253.84
Aug	411.75 (55.2)	309.03-526.18	567.92 (73.14)	434.29-718.25	641.33 (75.22)	491.41-791.25
Sep	486.6 (54.36)	393.55-594.83	643.72 (61.97)	526.68-769.12	851.87 (68.98)	718.24-993.85
Oct	755.51 (94.24)	576.73-936.14	1020.3 (110.24)	819.59-1246.1	1362.85 (110.83)	1153.82-1580.44
Nov	364.14 (79.63)	225.89-535.66	434.2 (70.45)	300.6-576.36	535.66 (86.88)	376.43-719.8
Dec	9.09 (7.25)	0-25.95	8.59 (7.9)	0-25.77	8.59 (8.07)	0-25.78

Table 62. Dogger Bank South - East & West. Monthly abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	133.99 (38.44)	58.19-216.15	182.14 (47)	99.35-281.48	289.7 (68.14)	165.55-430.42
Feb	24.54 (14.04)	0-58.07	49.61 (20.31)	16.54-90.95	99.23 (28.78)	49.61-157.11
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	16.7 (11.85)	0-41.75
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	68.27 (52.95)	0-185.42	67.06 (52.1)	0-184.43	67.06 (55.28)	0-201.19
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	8.15 (8.4)	0-25.08	8.36 (8.67)	0-25.09	8.36 (8.65)	0-25.29
Nov	41.61 (18.18)	8.37-83.66	41.75 (18.53)	8.35-83.5	58.59 (21.78)	24.9-108.81
Dec	41.9 (35.87)	0-121.08	51.54 (34.86)	0-129.06	68.74 (37.78)	8.59-146.29

Table 63. Dogger Bank South - East & West. Monthly abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	8.22 (8.28)	0-25.29	8.38 (8.74)	0-33.53	8.38 (8.15)	0-25.15
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 64. Dogger Bank South - East & West. Monthly abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	8.55 (7.95)	0-25.06	8.35 (8.22)	0-25.06	8.33 (8.03)	0-24.99
Sep	8.03 (8.2)	0-25.13	8.36 (8.46)	0-25.08	8.35 (8.53)	0-25.06
Oct	8.15 (8.37)	0-25.08	8.36 (8.38)	0-25.09	8.36 (8.11)	0-25.08
Nov	16.29 (11.84)	0-41.83	16.7 (11.58)	0-41.75	16.74 (11.7)	0-41.85
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 65. Dogger Bank South - East & West. Monthly abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1245.75 (169.91)	930.9-1587.88	2094.55 (277.01)	1597.62-2641.17	2698.39 (281)	2234.66-3344.02
Feb	3267.83 (304.78)	2679.56-3923.94	4167.02 (327.61)	3546.72-4853.25	5275.63 (314.61)	4663.52-5887.75
Mar	11080.92 (1269.07)	8566.05-13675.6	15446.82 (1899.42)	11694.55-19165.09	18988.55 (1582.98)	16027.02-22160.97
Apr	6969.14 (744.09)	5485.37-8473	10936.23 (1495.38)	8426-14125.06	13576.62 (1680.92)	10552.98-16958.25
May	1166.92 (179.47)	848.66-1546.45	1699.01 (226.83)	1263.8-2168.12	2182.27 (223.87)	1738.92-2617.05
Jun	1083.13 (195.38)	750.12-1517.1	1601.16 (223.11)	1165.25-2020.32	2095.72 (274.89)	1609.3-2658.21
Jul	8705.47 (576.33)	7583.66-9795.03	10641.02 (675.43)	9353.72-12073.11	14111.96 (848.12)	12535.91-15905.39
Aug	3493.48 (527.32)	2496.86-4510.55	4560.08 (496.08)	3582.5-5545.8	6446.59 (568.99)	5338.84-7570.99
Sep	2792.65 (345.79)	2077.51-3401.43	4305.39 (367.93)	3603.15-5032.92	6514.31 (742.42)	5194.75-8009.47
Oct	1279.47 (133.53)	1028.09-1546.73	1873.34 (153.67)	1580.42-2157.68	2926.36 (364.31)	2299.28-3696.2
Nov	10086.37 (635.8)	8734.35-11279.21	13143.02 (683.89)	11814.11-14462.34	16923.55 (724.95)	15509.07-18330.08
Dec	1780.74 (284.42)	1254.06-2352.44	2113.08 (303.29)	1554.75-2757.53	2620.85 (287.45)	2079.49-3196.58

Table 66. Dogger Bank South - East & West. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	2842.31 (384.82)	2108.4-3596.38	4495.43 (594.53)	3428.87- 5668.59	5777.54 (601.66)	4784.64-7159.9
Feb	7182.49 (669.59)	5886.81- 8620.62	8846.64 (695.52)	7529.74- 10303.53	11047.4 (658.81)	9765.61-12329.2
Mar	17754.37 (2043.7)	13794.68- 22023.05	24539.15 (3017.46)	18578.21- 30446.07	29870.48 (2490.15)	25211.76- 34860.95
Apr	11829.4 (1271.77)	9375.48- 14481.86	18215.9 (2490.77)	14034.74- 23527.36	22661.1 (2805.67)	17614.27- 28305.47
May	1340.18 (206.2)	975.05-1776.77	1941.72 (259.23)	1444.34-2477.85	2516.72 (258.17)	2005.42-3018.13
Jun	1192.06 (214.77)	824.56-1667.66	1726.91 (240.63)	1256.76-2178.98	2263.38 (296.88)	1738.05-2870.87
Jul	9101.83 (602.58)	7929.1-10241.2	11076.08 (703.04)	9736.15- 12566.73	14673.54 (881.87)	13034.78- 16538.34
Aug	4602.6 (693.44)	3283.46-5931.54	6030 (655.99)	4737.3-7333.46	8578.79 (757.19)	7104.66- 10075.09
Sep	3391.94 (421.01)	2529.42-4141.32	5308.59 (453.66)	4442.72- 6205.64	7842.23 (893.76)	6253.68-9642.17
Oct	2050.9 (216.77)	1668.97-2510.92	2994 (245.6)	2525.85- 3448.44	4623.65 (575.61)	3632.87-5840
Nov	14435.29 (908.97)	12487.05- 16125.31	19405.58 (1009.76)	17443.45- 21353.54	24941.73 (1068.42)	22857.09- 27014.66
Dec	4189.71 (671)	2958.61- 5549.94	4904.76 (703.97)	3608.79- 6400.61	6143.96 (673.85)	4874.88- 7493.61

Table 67. Dogger Bank South - East & West. Monthly abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	3673.68 (496.22)	2718.73-4637.44	5828.33 (770.81)	4445.54- 7349.34	7466.11 (777.5)	6183.01-9252.48
Feb	9390.1 (875.38)	7696.02- 11270.03	11575.05 (910.03)	9851.99- 13481.25	14462.51 (862.47)	12784.47- 16140.54
Mar	22834.54 (2629.28)	17747.24- 28333.26	31586.56 (3884.05)	23913.68- 39189.88	38466.36 (3206.74)	32466.99- 44892.95
Apr	15450.42 (1661.11)	12245.66- 18915.29	23780.24 (3251.61)	18321.88- 30714.17	29566.31 (3660.61)	22981.62- 36930.61
May	1737.14 (268.56)	1269.98-2314.19	2502.48 (334.09)	1861.45-3193.44	3252.5 (333.65)	2591.72-3900.51
Jun	1564.77 (281.89)	1082.24-2188.8	2263.43 (315.39)	1647.21-2855.95	2967.54 (389.25)	2278.77-3764.03
Jul	11905.68 (788.18)	10371.3- 13395.53	14484.11 (919.36)	12731.89- 16433.42	19193.35 (1153.5)	17049.81- 21632.56
Aug	6031 (908.65)	4302.47-7772.36	7909.15 (860.42)	6213.61-9618.82	11244.05 (992.43)	9311.93- 13205.22
Sep	4446.38 (551.59)	3313.97-5425.84	6955.51 (594.4)	5821.02-8130.85	10280.92 (1171.7)	8198.38- 12640.59
Oct	2690.23 (283.53)	2183.02-3284.29	3913.94 (321.06)	3301.95- 4508.02	6053.39 (753.6)	4756.23- 7645.86
Nov	18859.55 (1187.46)	16312.9- 21065.87	25342.49 (1318.69)	22780.06- 27886.4	32600.02 (1396.47)	29875.29- 35309.43
Dec	5494.32 (879.48)	3877.85-7274.31	6433.74 (923.42)	4733.77-8395.9	8051.59 (883.08)	6388.48-9820.3

Table 68. Dogger Bank South - East & West. Monthly abundance of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	8.15 (8.07)	0-24.94	8.28 (8.12)	0-24.84	8.28 (8.28)	0-24.83
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	26.01 (14.35)	0-59.31	33.8 (16.65)	8.45-67.6	42.18 (18.96)	8.44-84.36
Apr	8.09 (8.05)	0-25.24	16.73 (11.35)	0-41.84	16.7 (11.24)	0-41.75
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	146.46 (137.49)	0-421.42	142.51 (139.3)	0-427.54	159.27 (135.23)	8.38-452.68
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	8.59 (8.01)	0-25.1	8.35 (8.07)	0-25.05	50.22 (26.23)	8.37-108.81
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 69. Dogger Bank South - East & West. Monthly abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1847.54 (274.69)	1388.14-2420.06	2599.57 (278.77)	2102.63-3187.99	3211.59 (335.01)	2598.86- 3874.18
Feb	950.17 (129)	713.24-1202.9	1256.72 (134.42)	1016.95-1529.77	1753.03 (187.66)	1397.46-2141.67
Mar	14781.18 (1628.05)	11455.29- 17911.61	16663.64 (1537.81)	13477.1-19570.91	18381.19 (1669.41)	14955.49- 21544.96
Apr	4175.21 (556.45)	3180.29- 5409.86	5781.89 (768.4)	4459.63-7371.71	6754.91 (804.86)	5268.46- 8400.22
May	2241.22 (221.19)	1832-2706.29	2912.59 (251.72)	2427.16-3431.5	3670.56 (295.16)	3151.96-4272.56
Jun	694.68 (183.78)	379.28-1062.18	1022.73 (235.71)	586.81-1492.19	1190.37 (244.5)	729.31-1668.4
Jul	394.55 (86.19)	228.42-557.35	489.45 (103.07)	290.04-689.08	1331.49 (654.45)	452.89-2816.96
Aug	370.23 (176.11)	66.82-718.49	492.76 (219.96)	133.63-952.31	583.02 (229.2)	199.89-1082.76
Sep	905.9 (237.71)	468.95-1391.15	1170.4 (241.43)	735.68-1672	1453.19 (266.99)	943.74-2029.46
Oct	1086.19 (184.04)	743.9-1454.58	2191.14 (635.53)	1137.38-3504.36	2800.95 (755.23)	1621.83-4389.75
Nov	1320.83 (166.75)	1003.97-1639.82	1486.31 (160.75)	1177.15-1803.62	1782.75 (165.86)	1456.33-2109.59
Dec	297.62 (89.26)	121.08-467.03	317.82 (87.59)	154.62-498.21	403.87 (91.44)	240.6-593.13

Table 70. Dogger Bank South - East & West. Monthly abundance of Large gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	8.28 (8.43)	0-25.42	8.45 (8.26)	0-25.35	16.87 (11.61)	0-42.18
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	8.36 (8.04)	0-25.08
Jun	34.56 (34.61)	0-101.14	33.53 (32.25)	0-100.6	33.53 (33.6)	0-100.59
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	8.03 (8.32)	0-25.13	8.36 (8.07)	0-25.08	8.35 (8.1)	0-25.06
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	8.15 (8.01)	0-25.1	8.35 (8.5)	0-25.05	8.37 (7.76)	0-25.11
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 71. Dogger Bank South - East & West. Monthly abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	8.67 (8.4)	0-25.42	8.45 (8.28)	0-25.35	8.44 (8.08)	0-25.31
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.65 (8.55)	0-25.21	8.37 (8.3)	0-25.11	8.36 (8.27)	0-25.08
Jun	86.4 (82.66)	0-252.85	83.83 (85.25)	0-251.49	83.83 (82.94)	0-251.49
Jul	0 (0)	0-0	9.06 (9.23)	0-27.19	18.12 (12.88)	0-45.29
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	16.73 (16.46)	0-50.18	25.08 (19.12)	0-66.89
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 72. Dogger Bank South - East & West. Monthly abundance of Little auk recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	16.41 (18.01)	0-51.89	34.36 (23.59)	0-85.9	42.96 (25.33)	0-94.52

Table 73. Dogger Bank South - East & West. Monthly abundance of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	234.08 (174.76)	0-618.64	283.96 (175.61)	33.41-676.49
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 74. Dogger Bank South - East & West. Monthly abundance of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	161.18 (34)	93.2-228.77	211.25 (32.99)	152.1-278.85	286.81 (25.83)	236.2-337.42
Apr	222.34 (30.67)	168.06-286.06	292.86 (28.84)	242.66-343.06	367.39 (34.8)	300.59-434.18
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	44.53 (24.73)	0-91.37	45.32 (26.17)	0-90.64	45.29 (23.88)	0-90.58
Aug	24.47 (12.7)	0-50.11	33.41 (17.41)	0-66.81	33.32 (12.4)	8.33-58.3
Sep	32.83 (14.43)	8.38-58.65	41.8 (17.94)	8.36-75.24	66.81 (17.51)	33.41-100.22
Oct	470.11 (78.64)	317.62-618.52	610.51 (79.22)	459.97-761.04	760.85 (92.53)	576.91-936.44
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 75. Dogger Bank South - East & West. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	161.18 (34)	93.2-228.77	211.25 (32.99)	152.1-278.85	295.25 (26.59)	243.14-347.35
Apr	222.34 (30.67)	168.06-286.06	292.86 (28.84)	242.66-343.06	367.39 (34.8)	300.59-434.18
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	44.53 (24.73)	0-91.37	45.32 (26.17)	0-90.64	45.29 (23.88)	0-90.58
Aug	24.47 (12.7)	0-50.11	33.41 (17.41)	0-66.81	33.32 (12.4)	8.33-58.3
Sep	32.83 (14.43)	8.38-58.65	41.8 (17.94)	8.36-75.24	66.81 (17.51)	33.41-100.22
Oct	529.63 (87.07)	351.65-684.79	677.41 (87.9)	510.38-844.45	836.1 (101.69)	633.97-1029.05
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 76. Dogger Bank South - East & West. Monthly abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	178.13 (39.36)	107.92-264.89	245.05 (38.27)	176.44-323.47	345.86 (31.15)	284.83-406.89
Apr	255.35 (35.21)	192.96-328.44	343.06 (33.79)	284.25-401.88	425.84 (40.33)	348.41-503.26
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	53.28 (29.67)	0-109.64	54.38 (31.4)	0-108.77	54.35 (28.65)	0-108.69
Aug	24.47 (12.7)	0-50.11	41.76 (21.76)	0-83.52	41.64 (15.5)	10.41-72.88
Sep	32.83 (18.04)	10.47-73.31	50.16 (21.53)	10.03-90.29	75.17 (19.7)	37.58-112.75
Oct	613.62 (101.11)	408.37-795.25	786.13 (102.01)	592.29-979.97	969.88 (117.95)	735.4-1193.7
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 77. Dogger Bank South - East & West. Monthly abundance of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	819.95 (134.56)	573.63-1105.69	1250.11 (211.26)	861-1688.89	1539.57 (245.26)	1084.32-2069.53
Feb	501.25 (90.86)	315.24-671.96	611.82 (100.63)	429.72-826.79	959.21 (258.47)	554.02-1513.44
Mar	3715.78 (489.44)	2694.15-4643.33	4529.27 (442.78)	3658.69-5374.91	5474.71 (430.99)	4630.94-6301.61
Apr	1769.69 (259.29)	1312.5-2322.33	2635.74 (315.5)	2033.29-3271.67	2980.85 (444.58)	2162.37-3874.89
May	609.81 (98.45)	420.23-806.84	719.78 (111.66)	493.59-929.22	928.09 (138.78)	677.26-1204.01
Jun	25.07 (12.94)	0-50.57	58.68 (22.75)	16.77-108.98	75.45 (27.86)	25.15-134.13
Jul	65.12 (20.36)	18.27-100.51	63.45 (23.37)	18.13-108.77	72.46 (27.08)	27.17-126.81
Aug	277.38 (33.4)	217.15-342.44	359.13 (64.04)	250.55-484.4	399.79 (112.02)	216.55-641.33
Sep	333.94 (74.33)	184.31-469.16	401.28 (80.81)	242.44-560.12	467.69 (85.73)	317.36-643.08
Oct	230.37 (49.23)	133.73-325.98	635.6 (152.61)	342.68-953.4	869.55 (225.42)	476.58-1346.13
Nov	1957.26 (173.11)	1572.68-2267.3	2304.62 (206.46)	1903.61-2705.43	2946.14 (265.71)	2469.06-3523.65
Dec	578.64 (175.68)	285.41-977.52	816.03 (185.25)	480.6-1168.21	893.67 (178.11)	549.95-1254.57

Table 78. Dogger Bank South - East & West. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	1835.84 (305.82)	1303.71-2512.94	2682.35 (453.3)	1847.45-3623.84	3294.36 (524.81)	2320.22-4428.34
Feb	1103.45 (199.9)	693.53-1478.32	1298.06 (213.49)	911.71-1754.13	2001.1 (539.23)	1155.81-3157.34
Mar	6066.07 (787.41)	4334.35-7470.18	7191.05 (703)	5808.86- 8533.67	8612.75 (678.03)	7285.34-9913.62
Apr	3068.51 (442.95)	2242.19-3967.31	4392.9 (525.83)	3388.81-5452.78	4976.42 (742.21)	3610-6469
May	692.86 (111.94)	477.8-917.37	828.58 (128.54)	568.2-1069.69	1070.23 (160.03)	780.98-1388.41
Jun	25.07 (12.94)	0-50.57	67.06 (26)	19.16-124.55	83.83 (30.96)	27.94-149.03
Jul	65.12 (20.36)	18.27-100.51	63.45 (23.37)	18.13-108.77	72.46 (27.08)	27.17-126.81
Aug	370.62 (44.54)	289.54-456.58	476.05 (84.88)	332.13-642.12	533.05 (149.36)	288.74-855.1
Sep	402.34 (89.58)	222.12-565.4	493.24 (99.33)	298-688.48	567.91 (104.1)	385.37-780.88
Oct	378.38 (79.11)	214.93-523.89	1020.3 (244.97)	550.09-1530.45	1379.57 (357.63)	756.11-2135.68
Nov	2768.66 (247.19)	2245.71-3237.59	3406.83 (305.21)	2814.03-3999.32	4343.88 (391.78)	3640.47- 5195.38
Dec	1379.64 (416.62)	676.82-2318.12	1889.75 (428.99)	1112.96-2705.33	2096.68 (417.87)	1290.26-2943.42

Table 79. Dogger Bank South - East & West. Monthly abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	2224.46 (369.71)	1576.04- 3037.86	3237.04 (547.04)	2229.48-4373.22	3973.1 (632.93)	2798.26- 5340.72
Feb	1321.25 (240.78)	835.39-1780.7	1562.63 (257.01)	1097.54-2111.66	2406.28 (648.41)	1389.84- 3796.64
Mar	7270.38 (943.76)	5194.98- 8953.47	8627.57 (843.43)	6969.26- 10238.4	10342.05 (814.17)	8748.12- 11904.12
Apr	3714.83 (535.38)	2710.07-4795.18	5313.32 (636)	4098.85- 6595.26	6020.14 (897.88)	4367.13-7825.76
May	818.19 (132.17)	564.15-1083.16	979.23 (151.92)	671.51-1264.18	1279.26 (191.29)	933.51-1659.58
Jun	25.07 (17.25)	0-67.43	83.83 (32.5)	23.95-155.69	100.59 (37.15)	33.53-178.83
Jul	74.64 (23.27)	20.88-114.86	72.51 (26.71)	20.72-124.3	90.58 (33.85)	33.97-158.51
Aug	446.37 (53.65)	348.76-549.97	576.27 (102.75)	402.05-777.3	649.66 (182.03)	351.9-1042.16
Sep	488.18 (108.63)	269.38-685.7	593.56 (119.53)	358.61-828.51	684.84 (125.53)	464.71-941.65
Oct	460.75 (94.93)	257.92-628.67	1237.74 (297.18)	667.32-1856.61	1663.85 (431.32)	911.92-2575.76
Nov	3358.1 (299.35)	2719.57-3920.75	4116.59 (368.79)	3400.29- 4832.52	5256.18 (474.06)	4405.04- 6286.51
Dec	1668.51 (504.46)	819.53-2806.87	2284.88 (518.69)	1345.67-3270.99	2534.92 (505.21)	1559.95- 3558.64

Table 80. Dogger Bank South - East & West. Monthly abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	8.16 (8.73)	0-25.21	8.37 (8.1)	0-25.11	8.36 (8.37)	0-25.08
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 81. Dogger Bank South - East & West. Monthly abundance of Skua species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Sep	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Oct	16.31 (16.93)	0-66.87	16.73 (16.4)	0-50.18	16.72 (15.77)	0-50.17
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 82. Dogger Bank South - East & West. Monthly abundance of Small gull species recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Jan	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Feb	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Mar	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Apr	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
May	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jun	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Jul	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Aug	51.28 (47.9)	0-150.34	50.11 (51.1)	0-150.33	49.97 (51.98)	0-199.89
Sep	34.88 (20.2)	0-75.4	41.8 (21.38)	8.36-91.96	41.76 (21.76)	8.35-91.87
Oct	0 (0)	0-0	16.73 (11.48)	0-41.82	41.81 (18.31)	8.36-75.46
Nov	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Dec	9.09 (8.63)	0-25.95	8.59 (8.46)	0-25.77	8.59 (8.28)	0-25.78