



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

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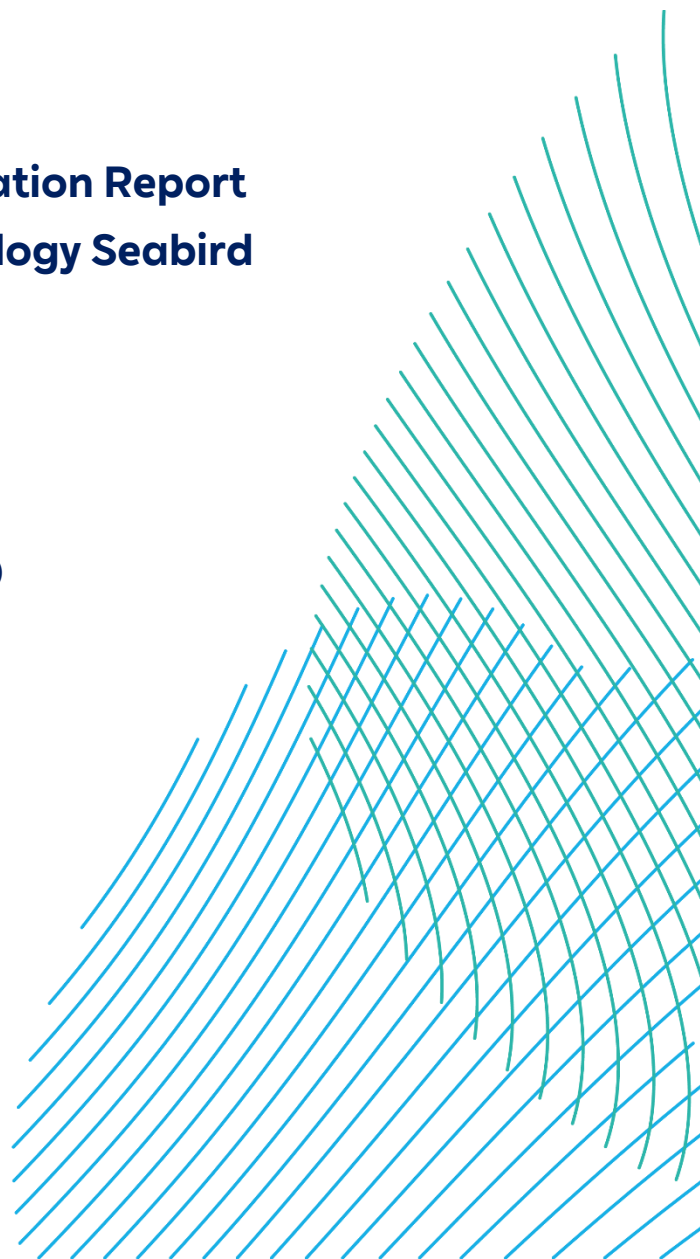
Dogger Bank South Offshore Wind Farms

**Preliminary Environmental Information Report
Appendix 12-4 – Offshore Ornithology Seabird
Abundances – Seasonal**

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MacArthur
Green

Dogger Bank South Offshore Windfarm

Ornithology Technical Appendix 12.4 Seabird peak seasonal abundances

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MacArthur Green is helping to combat the climate crisis through working within a carbon negative business model. Read more at www.macarthurgreen.com.



1 INTRODUCTION

This appendix provides tables of seabird peak abundance in each species-specific season, as defined in Furness (2015)¹ for each species recorded during baseline surveys for the Dogger Bank South Offshore Windfarm project (March 2021 – February 2022).

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.

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

Table 1. Dogger Bank South - East. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	8.56 (8.51)	0-25.69	8.56 (8.28)	0-25.67	8.54 (8.8)	0-34.15
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.56 (8.51)	0-25.69	8.56 (8.28)	0-25.67	8.54 (8.8)	0-34.15

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	17.5 (17.48)	0-52.51	17.52 (17.89)	0-52.57	17.45 (17.43)	0-52.36
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	17.18 (16.47)	0-51.53	25.89 (18.65)	0-69.03	25.95 (18.76)	0-69.19

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

Season	Abundance					
	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.
Spring migration	9.09 (7.22)	0-27.28	9.07 (8.26)	0-27.22	26.91 (16.69)	0-62.78
Breeding (full)	59.33 (22.64)	16.95-101.71	100.92 (32.68)	42.05-168.2	119.5 (32.84)	59.75-187.78
Autumn migration	165.7 (37.38)	95.93-244.19	242.84 (52.92)	147.44-355.59	328.18 (63.04)	207.27-449.31
Winter	154.58 (33.1)	94.46-223.28	215.73 (33.46)	155.11-276.35	285.4 (42.29)	198.91-363.23
Non-breeding	165.7 (37.38)	95.93-244.19	242.84 (52.92)	147.44-355.59	328.18 (63.04)	207.27-449.31

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

Season	Abundance					
	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.
Spring migration	9.09 (7.71)	0-27.28	17.21 (14.36)	0-51.64	25.58 (16.98)	0-59.68
Breeding (full)	710.91 (151.39)	433.27-1023.02	852.89 (132.4)	611.67-1137.19	994.33 (146.94)	711.46-1294.35
Autumn migration	453.78 (69.73)	325.35-599.33	753 (88.61)	581.65-924.14	1109.89 (108.05)	904.99-1306.47
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 6. Dogger Bank South - East. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	93.24 (32.34)	33.9-161.04	134.56 (39.67)	58.87-218.66	217.45 (63.64)	108.73-343.12
Breeding (full)	51.84 (50.98)	0-155.53	51.59 (51.9)	0-154.78	68.27 (53.68)	0-204.81
Autumn migration	17.18 (11.91)	0-42.94	17.26 (11.95)	0-43.15	34.59 (17.31)	8.65-69.19
Winter	9.09 (8.83)	0-27.28	9.07 (9.05)	0-27.22	26.91 (15.45)	0-62.78
Non-breeding	93.24 (32.34)	33.9-161.04	134.56 (39.67)	58.87-218.66	217.45 (63.64)	108.73-343.12

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.55 (8.42)	0-25.64	8.57 (7.99)	0-25.71	8.54 (8.33)	0-25.61
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

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

Season	Abundance					
	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.
Spring migration	1988.56 (308.95)	1461.16-2637	2625.23 (262.67)	2134.62-3167.5	3853.51 (294.39)	3316.41-4459.03
Breeding (full)	5453.24 (688.5)	4074.76-6832.15	7141.87 (659.67)	5772.08-8408.49	13037.77 (1609.48)	9814.54-16338.57
Autumn migration	1691.89 (272.04)	1159.9-2215.15	3590.54 (371.8)	2948.76-4293.04	5337.32 (698.15)	4033.21-6701.87
Winter	7007.44 (658.09)	5710.72-8270.02	9362.63 (546.09)	8275.14-10432.86	12782.29 (656.85)	11493.68-14106.13
Non-breeding	7007.44 (658.09)	5710.72-8270.02	9362.63 (546.09)	8275.14-10432.86	12782.29 (656.85)	11493.68-14106.13

Table 9. Dogger Bank South - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	4409.41 (685.06)	3239.96- 5847.26	5827.16 (583.04)	4738.15- 7030.8	8201.5 (626.55)	7058.37- 9490.24
Breeding (full)	8981.8 (1134)	6711.36- 11252.96	11983.52 (1106.88)	9685.11- 14108.82	20640.99 (2548.08)	15538.08- 25866.72
Autumn migration	2367.6 (517.9)	1390.97- 3380.55	4327.73 (448.13)	3554.18- 5174.46	6321.87 (826.94)	4777.21- 7938.14
Winter	9841.33 (924.23)	8020.2- 11614.51	13892.93 (810.33)	12279.24- 15481.01	18983.16 (975.49)	17069.44- 20949.23
Non-breeding	9841.33 (924.23)	8020.2- 11614.51	13892.93 (810.33)	12279.24- 15481.01	18983.16 (975.49)	17069.44- 20949.23

Table 10. Dogger Bank South - East. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	5766.81 (895.95)	4237.35- 7647.29	7626.09 (763.03)	6200.89- 9201.32	10742.09 (820.63)	9244.85- 12430.04
Breeding (full)	11504.68 (1452.53)	8596.5- 14413.78	15369.23 (1419.6)	12421.45- 18095	26658.42 (3290.92)	20067.87- 33407.6
Autumn migration	3102.67 (678.69)	1822.82- 4430.1	5672.02 (587.33)	4658.18- 6781.76	8290.98 (1084.51)	6265.19- 10410.68
Winter	12872.73 (1208.92)	10490.64- 15192.11	18155.73 (1058.96)	16046.9- 20231.09	24829.46 (1275.92)	22326.36- 27401.02
Non-breeding	12872.73 (1208.92)	10490.64- 15192.11	18155.73 (1058.96)	16046.9- 20231.09	24829.46 (1275.92)	22326.36- 27401.02

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	138.25 (142.3)	0-414.74	137.58 (139.32)	0-412.74	145.07 (133.53)	0-426.69
Autumn migration	8.59 (8.34)	0-25.76	8.63 (8.49)	0-25.89	25.95 (18.11)	0-69.19
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.59 (8.34)	0-25.76	8.63 (8.49)	0-25.89	25.95 (18.11)	0-69.19

Table 12. Dogger Bank South - East. Seasonal peak abundance of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	991.7 (193.76)	627.23-1347.9	1631.55 (211.96)	1227.65-2027.03	2207.99 (224.51)	1789.81-2626.17
Breeding (full)	11851.47 (1549.37)	8912.23-14938.1	14214.81 (1592.92)	10990.85-17325.49	15849.33 (1673.79)	12779.97-19245.07
Autumn migration	815.82 (119.33)	592.54-1064.86	1591.57 (607.35)	624.65-2952.53	2194.17 (689.99)	1066.78-3680.36
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	991.7 (193.76)	627.23-1347.9	1631.55 (211.96)	1227.65-2027.03	2207.99 (224.51)	1789.81-2626.17

Table 13. Dogger Bank South - East. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	8.67 (8.52)	0-26.01	8.62 (8.37)	0-25.85	8.57 (8.44)	0-25.72
Breeding (full)	86.4 (88.43)	0-259.21	85.99 (80.86)	0-257.97	85.34 (84.95)	0-256.01
Autumn migration	0 (0)	0-0	0 (0)	0-0	8.54 (8.36)	0-25.61
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.67 (8.52)	0-26.01	8.62 (8.37)	0-25.85	8.57 (8.44)	0-25.72

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	242.84 (175.69)	8.67-633.12	293.64 (194.53)	34.55-725.68

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

Season	Abundance					
	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.
Spring migration	86.7 (32.73)	26.01-156.05	94.77 (32.18)	34.46-163.69	137.15 (18.72)	94.29-171.44
Breeding (full)	52.41 (22.79)	8.74-96.31	69.34 (24.49)	26-121.34	163.7 (25.51)	112.01-215.4
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	282.54 (67.77)	162.68-428.09	342.27 (74.83)	205.36-496.3	426.88 (68.51)	298.82-563.48
Non-breeding	282.54 (67.77)	162.68-428.09	342.27 (74.83)	205.36-496.3	426.88 (68.51)	298.82-563.48

Table 16. Dogger Bank South - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	86.7 (32.73)	26.01-156.05	94.77 (32.18)	34.46-163.69	137.15 (18.72)	94.29-171.44
Breeding (full)	52.41 (22.79)	8.74-96.31	69.34 (24.49)	26-121.34	163.7 (25.51)	112.01-215.4
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	333.91 (80.1)	192.25-505.93	393.61 (86.05)	236.17-570.74	486.65 (78.11)	340.65-642.37
Non-breeding	333.91 (80.1)	192.25-505.93	393.61 (86.05)	236.17-570.74	486.65 (78.11)	340.65-642.37

Table 17. Dogger Bank South - East. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	95.37 (36)	28.61-171.66	112 (38.03)	40.73-193.45	154.29 (21.07)	106.08-192.87
Breeding (full)	61.15 (26.58)	10.19-112.36	78 (27.55)	29.25-136.5	189.55 (29.54)	129.69-249.4
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	385.28 (92.42)	221.83-583.76	462.07 (101.02)	277.24-670	563.48 (90.44)	394.44-743.8
Non-breeding	385.28 (92.42)	221.83-583.76	462.07 (101.02)	277.24-670	563.48 (90.44)	394.44-743.8

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

Season	Abundance					
	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.
Spring migration	3095.08 (469.28)	2158.75-3970.72	4023.22 (427)	3195.96-4902.39	4774.52 (470.06)	3891.4-5700.27
Breeding (full)	297 (78.16)	148.5-454.23	780.03 (263.93)	346.68-1369.38	1542.23 (378.22)	878.38-2292.02
Autumn migration	261.63 (67.9)	139.32-392.45	359.39 (150.26)	59.9-633.2	512.26 (220.42)	145.14-998.9
Winter	1786.21 (167.71)	1459.88-2104.16	2165.92 (208.58)	1777.39-2597.59	2776.13 (242.3)	2317.55-3252
Non-breeding	3095.08 (469.28)	2158.75-3970.72	4023.22 (427)	3195.96-4902.39	4774.52 (470.06)	3891.4-5700.27

Table 19. Dogger Bank South - East. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	5097.78 (772.94)	3555.59- 6540.01	6745.58 (715.93)	5358.54- 8219.64	7560.36 (744.34)	6161.97- 9026.29
Breeding (full)	462.97 (121.83)	231.48- 708.07	1213.38 (410.56)	539.28- 2130.15	2472.74 (606.43)	1408.35- 3674.92
Autumn migration	313.96 (81.48)	167.18- 470.94	539.08 (225.39)	89.85- 949.81	759.85 (326.95)	215.29- 1481.71
Winter	2516.15 (236.24)	2056.47- 2964.04	3210.04 (309.12)	2634.22- 3849.81	4125.27 (360.05)	3443.83- 4832.41
Non-breeding	5097.78 (772.94)	3555.59- 6540.01	6745.58 (715.93)	5358.54- 8219.64	7560.36 (744.34)	6161.97- 9026.29

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

Season	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.
Spring migration	6103.46 (925.42)	4257.04- 7830.21	8089.52 (858.57)	6426.15- 9857.26	9077.58 (893.71)	7398.55- 10837.68
Breeding (full)	559.05 (147.12)	279.53- 855.02	1464.72 (495.6)	650.99- 2571.4	2989.69 (733.21)	1702.78- 4443.19
Autumn migration	383.73 (99.59)	204.33- 575.59	650.32 (271.9)	108.39- 1145.8	913.53 (393.08)	258.83- 1781.38
Winter	3048.58 (286.23)	2491.63- 3591.24	3883.12 (373.94)	3186.55- 4657.03	4998.76 (436.29)	4173.03- 5855.63
Non-breeding	6103.46 (925.42)	4257.04- 7830.21	8089.52 (858.57)	6426.15- 9857.26	9077.58 (893.71)	7398.55- 10837.68

Table 21. Dogger Bank South - West. Seasonal peak abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	9.52 (9.79)	0-28.57	9.83 (9.67)	0-29.5	9.8 (9.25)	0-29.4
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 22. Dogger Bank South - West. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	8.46 (8.78)	0-25.39	8.38 (8.51)	0-25.14

Table 23. Dogger Bank South - West. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.16 (8.03)	0-24.47	8.49 (8.18)	0-25.48	8.46 (8.56)	0-25.39
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

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

Season	Abundance					
	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.
Spring migration	16.41 (16.52)	0-49.22	17.01 (17.72)	0-68.03	16.95 (16.72)	0-50.85
Breeding (full)	179.45 (41.71)	106.04-261.02	289.55 (59.74)	178.84-417.29	344.84 (65.59)	227.09-479.63
Autumn migration	64.28 (22.23)	24.1-112.49	109.56 (31.78)	50.57-176.98	279.41 (181.2)	42.33-702.76
Winter	130.33 (34.83)	65.16-203.63	245.42 (70.22)	126.94-397.95	351.91 (75.14)	226.23-511.11
Non-breeding	64.28 (22.23)	24.1-112.49	109.56 (31.78)	50.57-176.98	158.9 (40)	92-242.54

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	16.57 (10.48)	0-33.14	16.55 (11.42)	0-33.09
Breeding (full)	485.5 (91.3)	323.47-671.61	653.86 (109.41)	441.57-874.65	829.41 (127.46)	567.05-1066.39
Autumn migration	301.74 (54.16)	195.72-407.75	393.98 (59.5)	282.64-513.89	533.42 (60.4)	414.88-643.49
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 26. Dogger Bank South - West. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	40.75 (20.76)	8.15-81.71	85.13 (33.73)	25.54-161.75	127.19 (42.01)	50.88-220.47
Breeding (full)	16.43 (15.36)	0-49.3	17.12 (16.77)	0-51.37	17.02 (17.42)	0-68.07
Autumn migration	24.44 (13.72)	0-57.02	25.39 (15.31)	0-59.24	25.14 (14.35)	0-58.65
Winter	32.81 (34.16)	0-131.24	42.52 (35.14)	0-127.56	42.37 (33.17)	0-118.64
Non-breeding	40.75 (20.76)	8.15-81.71	85.13 (33.73)	25.54-161.75	127.19 (42.01)	50.88-220.47

Table 27. Dogger Bank South - West. Seasonal peak abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	8.15 (7.7)	0-24.46	8.56 (8.43)	0-25.69	8.47 (8.38)	0-25.4
Winter	16.29 (10.89)	0-40.73	16.93 (11.95)	0-42.31	16.76 (11.55)	0-41.89
Non-breeding	16.29 (10.89)	0-40.73	16.93 (11.95)	0-42.31	16.76 (11.55)	0-41.89

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

Season	Abundance					
	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.
Spring migration	1279.27 (113.85)	1064.74-1517.65	1781.18 (138.43)	1507.79-2054.57	2804.8 (162.47)	2482.12-3127.68
Breeding (full)	5627.68 (1099.54)	3517.1-7746.55	9405.91 (1511.92)	6623.15-12431.83	12208.23 (1424.86)	9292.49-14994.95
Autumn migration	1835.3 (238.46)	1362-2300.25	2648.53 (236.51)	2197.17-3099.88	4398.85 (318.19)	3801.48-5021.25
Winter	3078.94 (286.05)	2549.49-3665.6	4544.41 (298.74)	3985.88-5119.87	5965.75 (340.94)	5303.61-6661.41
Non-breeding	3078.94 (286.05)	2549.49-3665.6	4544.41 (298.74)	3985.88-5119.87	5965.75 (340.94)	5303.61-6661.41

Table 30. Dogger Bank South - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	2773.09 (246.79)	2308.03-3289.81	3653.5 (283.94)	3092.73-4214.27	5502.04 (318.71)	4869.06-6135.42
Breeding (full)	8772.57 (1713.99)	5482.53-12075.5	14312.58 (2300.62)	10078.17-18917.01	18629.55 (2174.31)	14180.18-22882.04
Autumn migration	2234.99 (290.4)	1658.61-2801.19	3236.14 (288.98)	2684.64-3787.64	5509.08 (398.5)	4760.93-6288.57
Winter	4593.97 (426.81)	3804-5469.31	6685.45 (439.48)	5863.77-7532.02	8638.61 (493.69)	7679.81-9645.95
Non-breeding	4593.97 (426.81)	3804-5469.31	6685.45 (439.48)	5863.77-7532.02	8638.61 (493.69)	7679.81-9645.95

Table 31. Dogger Bank South - West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	3623.29 (322.46)	3015.66- 4298.43	4780.2 (371.5)	4046.49- 5513.9	7206.43 (417.43)	6377.37- 8036.02
Breeding (full)	11329.85 (2213.64)	7080.74- 15595.63	18491.06 (2972.28)	13020.43- 24439.73	24099.25 (2812.69)	18343.53- 29600.28
Autumn migration	2928.33 (380.48)	2173.15- 3670.17	4241.05 (378.72)	3518.3- 4963.8	7224.88 (522.61)	6243.72- 8247.14
Winter	5986.82 (556.21)	4957.34- 7127.56	8724.93 (573.55)	7652.59- 9829.76	11277.96 (644.52)	10026.21- 12593.06
Non-breeding	5986.82 (556.21)	4957.34- 7127.56	8724.93 (573.55)	7652.59- 9829.76	11277.96 (644.52)	10026.21- 12593.06

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

Season	Abundance					
	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.
Spring migration	8.15 (7.99)	0-24.45	8.51 (8.66)	0-25.54	8.48 (8.74)	0-25.44
Breeding (full)	8.22 (7.71)	0-24.65	8.56 (8.23)	0-25.69	17.02 (11.87)	0-42.54
Autumn migration	0 (0)	0-0	0 (0)	0-0	25.14 (19.04)	0-67.03
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.15 (7.99)	0-24.45	8.51 (8.66)	0-25.54	25.14 (19.04)	0-67.03

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

Season	Abundance					
	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.
Spring migration	855.85 (154.8)	570.57-1132.98	1294.01 (179.2)	944.96-1677.1	1729.8 (180.31)	1365.19-2094.63
Breeding (full)	2929.71 (537.68)	1919.83-4014.07	3675.67 (559.66)	2591.83-4733.29	5898.36 (588.36)	4757.91-7030.02
Autumn migration	538.23 (132.73)	293.58-799.19	685.18 (136.78)	419.68-942.13	795.89 (128.09)	524.95-1049.9
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	855.85 (154.8)	570.57-1132.98	1294.01 (179.2)	944.96-1677.1	1729.8 (180.31)	1365.19-2094.63

Table 34. Dogger Bank South - West. Seasonal peak abundance of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	17.13 (17.09)	0-51.39	16.93 (17)	0-50.8
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	17.13 (17.09)	0-51.39	16.93 (17)	0-50.8

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	33.71 (32.66)	0-101.13	33.45 (33.3)	0-100.36

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

Season	Abundance					
	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.
Spring migration	74.48 (23.27)	24.83-116.07	121.37 (22.42)	78.02-164.71	188.61 (20.77)	145.74-231.48
Breeding (full)	169.93 (23.87)	121.38-218.48	228.68 (24.04)	186.34-279.5	259.98 (26.43)	209.66-310.3
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	187.57 (44.84)	97.86-269.12	282.64 (47.98)	188.43-376.85	397.95 (42.23)	313.28-474.15
Non-breeding	187.57 (44.84)	97.86-269.12	282.64 (47.98)	188.43-376.85	397.95 (42.23)	313.28-474.15

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

Season	Abundance					
	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.
Spring migration	74.48 (23.27)	24.83-116.07	121.37 (22.42)	78.02-164.71	188.61 (20.77)	145.74-231.48
Breeding (full)	169.93 (23.87)	121.38-218.48	228.68 (24.04)	186.34-279.5	259.98 (26.43)	209.66-310.3
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	195.72 (46.79)	102.11-280.82	299.77 (50.89)	199.85-399.69	414.88 (44.03)	326.61-494.33
Non-breeding	195.72 (46.79)	102.11-280.82	299.77 (50.89)	199.85-399.69	414.88 (44.03)	326.61-494.33

Table 38. Dogger Bank South - West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	82.76 (25.86)	27.59-128.97	138.7 (25.63)	89.17-188.24	222.9 (24.55)	172.24-273.56
Breeding (full)	194.2 (27.28)	138.72-249.69	262.56 (27.6)	213.94-320.91	301.91 (30.7)	243.47-360.34
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	228.34 (54.59)	119.13-327.62	351.16 (59.62)	234.1-468.21	482.62 (51.22)	379.93-575.03
Non-breeding	228.34 (54.59)	119.13-327.62	351.16 (59.62)	234.1-468.21	482.62 (51.22)	379.93-575.03

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

Season	Abundance					
	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.
Spring migration	620.7 (103.36)	421.87-819.32	962.26 (88.48)	788.88-1135.86	1543.18 (151.73)	1260.26-1843.24
Breeding (full)	1472.7 (245.52)	986.99-1933.93	1922.64 (205.21)	1498.94-2303.79	2063.04 (228.13)	1609.97-2482.36
Autumn migration	187.57 (47.3)	97.86-277.27	376.85 (73.75)	239.81-522.67	457.22 (92.34)	279.2-635.02
Winter	533.16 (140.02)	270.68-804.05	637.8 (134.47)	391.18-918.43	694.91 (152.75)	398.09-991.52
Non-breeding	620.7 (103.36)	421.87-819.32	962.26 (88.48)	788.88-1135.86	1543.18 (151.73)	1260.26-1843.24

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

Season	Abundance					
	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.
Spring migration	1149.28 (241.15)	681.78-1597.79	1923.98 (326.26)	1270.2-2559.08	2704.94 (395.88)	1921.44-3451.13
Breeding (full)	2605.54 (434.38)	1746.21-3421.56	3320.16 (354.36)	2588.48-3978.34	3522.27 (389.49)	2748.73-4238.18
Autumn migration	309.89 (78.15)	161.68-458.1	608.1 (119.01)	386.97-843.39	736.63 (148.78)	449.82-1023.09
Winter	1279.59 (336.05)	649.64-1929.72	1513.7 (319.14)	928.4-2179.73	1754.23 (385.6)	1004.94-2502.99
Non-breeding	1279.59 (336.05)	649.64-1929.72	1923.98 (326.26)	1270.2-2559.08	2704.94 (395.88)	1921.44-3451.13

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

Season	Abundance					
	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.
Spring migration	1393.81 (292.46)	826.84-1937.75	2332.62 (395.55)	1539.98-3102.6	3273.06 (479.03)	2325-4175.98
Breeding (full)	3155.78 (526.11)	2114.98-4144.13	4014.69 (428.49)	3129.95-4810.55	4260.27 (471.09)	3324.65-5126.17
Autumn migration	375.13 (94.6)	195.72-554.54	736.57 (144.15)	468.73-1021.58	889.03 (179.56)	542.89-1234.77
Winter	1550.28 (407.13)	787.06-2337.93	1836.85 (387.27)	1126.6-2645.07	2127.11 (467.56)	1218.55-3035.02
Non-breeding	1550.28 (407.13)	787.06-2337.93	2332.62 (395.55)	1539.98-3102.6	3273.06 (479.03)	2325-4175.98

Table 42. Dogger Bank South - West. Seasonal peak abundance of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.16 (8.25)	0-24.47	8.49 (8.3)	0-25.48	8.46 (8.76)	0-25.39
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 43. Dogger Bank South - East & West. Seasonal peak abundance of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	8.56 (8.59)	0-25.08	8.36 (8.76)	0-33.45	8.36 (8.2)	0-25.08
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.56 (8.59)	0-25.08	8.36 (8.76)	0-33.45	8.36 (8.2)	0-25.08

Table 44. Dogger Bank South - East & West. Seasonal peak abundance of Arctic tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	27.03 (19.62)	0-73.1	27.19 (19.37)	0-72.51	27.17 (18.77)	0-72.46
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 45. Dogger Bank South - East & West. Seasonal peak abundance of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	17.18 (16.49)	0-50.2	33.4 (19.81)	0-75.15	33.48 (20.19)	0-75.33

Table 46. Dogger Bank South - East & West. Seasonal peak abundance of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.16 (8.14)	0-25.21	8.37 (8.59)	0-25.11	8.36 (7.86)	0-25.08
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

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

Season	Abundance					
	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.
Spring migration	25.5 (18.79)	0-69.19	25.77 (16.52)	0-60.13	25.78 (15.79)	0-60.15
Breeding (full)	213.64 (49.71)	133.42-317.38	334.07 (63.48)	217.15-459.35	424.78 (69.76)	283.18-558.04
Autumn migration	229.98 (47.22)	142.42-326.74	342.76 (60.21)	225.72-468.16	459.34 (74.34)	325.72-609.67
Winter	284.9 (61.4)	175.7-418.32	450.9 (71.05)	308.95-592.86	544.03 (78.19)	401.75-703.06
Non-breeding	229.98 (47.22)	142.42-326.74	342.76 (60.21)	225.72-468.16	459.34 (74.34)	325.72-609.67

Table 48. Dogger Bank South - East & West. Seasonal peak abundance of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	9.09 (7.25)	0-25.95	16.54 (14.14)	0-49.61	24.81 (16.31)	0-57.88
Breeding (full)	851.61 (157.52)	516.84-1152.31	1037.56 (102.87)	836.74-1246.75	1202.36 (102.02)	1001.96-1386.05
Autumn migration	755.51 (94.24)	576.73-936.14	1020.3 (110.24)	819.59-1246.1	1362.85 (110.83)	1153.82-1580.44
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 49. Dogger Bank South - East & West. Seasonal peak abundance of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	133.99 (38.44)	58.19-216.15	182.14 (47)	99.35-281.48	289.7 (68.14)	165.55-430.42
Breeding (full)	68.27 (52.95)	0-185.42	67.06 (52.1)	0-184.43	67.06 (55.28)	0-201.19
Autumn migration	41.61 (18.18)	8.37-83.66	41.75 (18.53)	8.35-83.5	58.59 (21.78)	24.9-108.81
Winter	41.9 (35.87)	0-121.08	51.54 (34.86)	0-129.06	68.74 (37.78)	8.59-146.29
Non-breeding	133.99 (38.44)	58.19-216.15	182.14 (47)	99.35-281.48	289.7 (68.14)	165.55-430.42

Table 50. Dogger Bank South - East & West. Seasonal peak abundance of Great northern diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 51. Dogger Bank South - East & West. Seasonal peak abundance of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.55 (7.95)	0-25.06	8.35 (8.22)	0-25.06	8.33 (8.03)	0-24.99
Autumn migration	8.15 (8.37)	0-25.08	8.36 (8.38)	0-25.09	8.36 (8.11)	0-25.08
Winter	16.29 (11.84)	0-41.83	16.7 (11.58)	0-41.75	16.74 (11.7)	0-41.85
Non-breeding	16.29 (11.84)	0-41.83	16.7 (11.58)	0-41.75	16.74 (11.7)	0-41.85

Table 52. Dogger Bank South - East & West. Seasonal peak abundance of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	Abundance					
	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.
Spring migration	3267.83 (304.78)	2679.56- 3923.94	4167.02 (327.61)	3546.72- 4853.25	5275.63 (314.61)	4663.52- 5887.75
Breeding (full)	11080.92 (1269.07)	8566.05- 13675.6	15446.82 (1899.42)	11694.55- 19165.09	18988.55 (1582.98)	16027.02- 22160.97
Autumn migration	3493.48 (527.32)	2496.86- 4510.55	4560.08 (496.08)	3582.5- 5545.8	6514.31 (742.42)	5194.75- 8009.47
Winter	10086.37 (635.8)	8734.35- 11279.21	13143.02 (683.89)	11814.11- 14462.34	16923.55 (724.95)	15509.07- 18330.08
Non-breeding	10086.37 (635.8)	8734.35- 11279.21	13143.02 (683.89)	11814.11- 14462.34	16923.55 (724.95)	15509.07- 18330.08

Table 53. Dogger Bank South - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	7182.49 (669.59)	5886.81- 8620.62	8846.64 (695.52)	7529.74- 10303.53	11047.4 (658.81)	9765.61- 12329.2
Breeding (full)	17754.37 (2043.7)	13794.68- 22023.05	24539.15 (3017.46)	18578.21- 30446.07	29870.48 (2490.15)	25211.76- 34860.95
Autumn migration	4602.6 (693.44)	3283.46- 5931.54	6030 (655.99)	4737.3- 7333.46	8578.79 (757.19)	7104.66- 10075.09
Winter	14435.29 (908.97)	12487.05- 16125.31	19405.58 (1009.76)	17443.45- 21353.54	24941.73 (1068.42)	22857.09- 27014.66
Non-breeding	14435.29 (908.97)	12487.05- 16125.31	19405.58 (1009.76)	17443.45- 21353.54	24941.73 (1068.42)	22857.09- 27014.66

Table 54. Dogger Bank South - East & West. Seasonal peak abundance of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	9390.1 (875.38)	7696.02- 11270.03	11575.05 (910.03)	9851.99- 13481.25	14462.51 (862.47)	12784.47- 16140.54
Breeding (full)	22834.54 (2629.28)	17747.24- 28333.26	31586.56 (3884.05)	23913.68- 39189.88	38466.36 (3206.74)	32466.99- 44892.95
Autumn migration	6031 (908.65)	4302.47- 7772.36	7909.15 (860.42)	6213.61- 9618.82	11244.05 (992.43)	9311.93- 13205.22
Winter	18859.55 (1187.46)	16312.9- 21065.87	25342.49 (1318.69)	22780.06- 27886.4	32600.02 (1396.47)	29875.29- 35309.43
Non-breeding	18859.55 (1187.46)	16312.9- 21065.87	25342.49 (1318.69)	22780.06- 27886.4	32600.02 (1396.47)	29875.29- 35309.43

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

Season	Abundance					
	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.
Spring migration	8.15 (8.07)	0-24.94	8.28 (8.12)	0-24.84	8.28 (8.28)	0-24.83
Breeding (full)	146.46 (137.49)	0-421.42	142.51 (139.3)	0-427.54	159.27 (135.23)	8.38-452.68
Autumn migration	8.59 (8.01)	0-25.1	8.35 (8.07)	0-25.05	50.22 (26.23)	8.37-108.81
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.59 (8.01)	0-25.1	8.35 (8.07)	0-25.05	50.22 (26.23)	8.37-108.81

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

Season	Abundance					
	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.
Spring migration	1847.54 (274.69)	1388.14- 2420.06	2599.57 (278.77)	2102.63- 3187.99	3211.59 (335.01)	2598.86- 3874.18
Breeding (full)	14781.18 (1628.05)	11455.29- 17911.61	16663.64 (1537.81)	13477.1- 19570.91	18381.19 (1669.41)	14955.49- 21544.96
Autumn migration	1320.83 (166.75)	1003.97- 1639.82	2191.14 (635.53)	1137.38- 3504.36	2800.95 (755.23)	1621.83- 4389.75
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	1847.54 (274.69)	1388.14- 2420.06	2599.57 (278.77)	2102.63- 3187.99	3211.59 (335.01)	2598.86- 3874.18

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

Season	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.
Spring migration	8.67 (8.4)	0-25.42	8.45 (8.28)	0-25.35	8.44 (8.08)	0-25.31
Breeding (full)	86.4 (82.66)	0-252.85	83.83 (85.25)	0-251.49	83.83 (82.94)	0-251.49
Autumn migration	0 (0)	0-0	16.73 (16.46)	0-50.18	25.08 (19.12)	0-66.89
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	8.67 (8.4)	0-25.42	16.73 (16.46)	0-50.18	25.08 (19.12)	0-66.89

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	234.08 (174.76)	0-618.64	283.96 (175.61)	33.41-676.49

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

Season	Abundance					
	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.
Spring migration	161.18 (34)	93.2-228.77	211.25 (32.99)	152.1-278.85	286.81 (25.83)	236.2-337.42
Breeding (full)	222.34 (30.67)	168.06-286.06	292.86 (28.84)	242.66-343.06	367.39 (34.8)	300.59-434.18
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	470.11 (78.64)	317.62-618.52	610.51 (79.22)	459.97-761.04	760.85 (92.53)	576.91-936.44
Non-breeding	470.11 (78.64)	317.62-618.52	610.51 (79.22)	459.97-761.04	760.85 (92.53)	576.91-936.44

Table 60. Dogger Bank South - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	161.18 (34)	93.2-228.77	211.25 (32.99)	152.1-278.85	295.25 (26.59)	243.14-347.35
Breeding (full)	222.34 (30.67)	168.06-286.06	292.86 (28.84)	242.66-343.06	367.39 (34.8)	300.59-434.18
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	529.63 (87.07)	351.65-684.79	677.41 (87.9)	510.38-844.45	836.1 (101.69)	633.97-1029.05
Non-breeding	529.63 (87.07)	351.65-684.79	677.41 (87.9)	510.38-844.45	836.1 (101.69)	633.97-1029.05

Table 61. Dogger Bank South - East & West. Seasonal peak abundance of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	178.13 (39.36)	107.92-264.89	245.05 (38.27)	176.44-323.47	345.86 (31.15)	284.83-406.89
Breeding (full)	255.35 (35.21)	192.96-328.44	343.06 (33.79)	284.25-401.88	425.84 (40.33)	348.41-503.26
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	613.62 (101.11)	408.37-795.25	786.13 (102.01)	592.29-979.97	969.88 (117.95)	735.4-1193.7
Non-breeding	613.62 (101.11)	408.37-795.25	786.13 (102.01)	592.29-979.97	969.88 (117.95)	735.4-1193.7

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

Season	Abundance					
	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.
Spring migration	3715.78 (489.44)	2694.15-4643.33	4529.27 (442.78)	3658.69-5374.91	5474.71 (430.99)	4630.94-6301.61
Breeding (full)	1769.69 (259.29)	1312.5-2322.33	2635.74 (315.5)	2033.29-3271.67	2980.85 (444.58)	2162.37-3874.89
Autumn migration	333.94 (74.33)	184.31-469.16	635.6 (152.61)	342.68-953.4	869.55 (225.42)	476.58-1346.13
Winter	1957.26 (173.11)	1572.68-2267.3	2304.62 (206.46)	1903.61-2705.43	2946.14 (265.71)	2469.06-3523.65
Non-breeding	3715.78 (489.44)	2694.15-4643.33	4529.27 (442.78)	3658.69-5374.91	5474.71 (430.99)	4630.94-6301.61

Table 63. Dogger Bank South - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	6066.07 (787.41)	4334.35- 7470.18	7191.05 (703)	5808.86- 8533.67	8612.75 (678.03)	7285.34- 9913.62
Breeding (full)	3068.51 (442.95)	2242.19- 3967.31	4392.9 (525.83)	3388.81- 5452.78	4976.42 (742.21)	3610-6469
Autumn migration	402.34 (89.58)	222.12-565.4	1020.3 (244.97)	550.09- 1530.45	1379.57 (357.63)	756.11- 2135.68
Winter	2768.66 (247.19)	2245.71- 3237.59	3406.83 (305.21)	2814.03- 3999.32	4343.88 (391.78)	3640.47- 5195.38
Non-breeding	6066.07 (787.41)	4334.35- 7470.18	7191.05 (703)	5808.86- 8533.67	8612.75 (678.03)	7285.34- 9913.62

Table 64. Dogger Bank South - East & West. Seasonal peak abundance of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the wind farm, wind farm and 2km buffer and wind farm and 4km buffer.

Season	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.
Spring migration	7270.38 (943.76)	5194.98- 8953.47	8627.57 (843.43)	6969.26- 10238.4	10342.05 (814.17)	8748.12- 11904.12
Breeding (full)	3714.83 (535.38)	2710.07- 4795.18	5313.32 (636)	4098.85- 6595.26	6020.14 (897.88)	4367.13- 7825.76
Autumn migration	488.18 (108.63)	269.38- 685.7	1237.74 (297.18)	667.32- 1856.61	1663.85 (431.32)	911.92- 2575.76
Winter	3358.1 (299.35)	2719.57- 3920.75	4116.59 (368.79)	3400.29- 4832.52	5256.18 (474.06)	4405.04- 6286.51
Non-breeding	7270.38 (943.76)	5194.98- 8953.47	8627.57 (843.43)	6969.26- 10238.4	10342.05 (814.17)	8748.12- 11904.12

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

Season	Abundance					
	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.
Spring migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Breeding (full)	8.16 (8.73)	0-25.21	8.37 (8.1)	0-25.11	8.36 (8.37)	0-25.08
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0