



FIVE  
ESTUARIES  
OFFSHORE WIND FARM

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ENVIRONMENTAL STATEMENT

VOLUME 6, PART 5, ANNEX 4.7: SEABIRD  
PEAK SEASONAL DENSITIES

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# Five Estuaries Offshore Windfarm

## Ornithology Technical Annex 4.7 Seabird peak seasonal densities

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## 1 INTRODUCTION

This annex provides tables of seabird peak densities in each species-specific season, as defined in Furness (2015)<sup>1</sup> for each species recorded during baseline surveys for the Five Estuaries Offshore Windfarm (VE) project (March 2019 – February 2021).

Densities 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.

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<sup>1</sup> 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. VE North. Seasonal peak density of Black-headed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.06 (0.03)	0-0.13	0.09 (0.04)	0.02-0.15
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	0.01 (0.01)	0-0.04

Table 2. VE North. Seasonal peak density of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.05 (0.04)	0-0.15	0.04 (0.03)	0-0.11	0.04 (0.02)	0-0.09

Table 3. VE North. Seasonal peak density of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.05 (0.04)	0-0.11	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0.05 (0.04)	0-0.11	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04

Table 4. VE North. Seasonal peak density of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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)	0.31 (0.24)	0-0.84	0.16 (0.12)	0-0.42	0.1 (0.04)	0.03-0.18
Autumn migration	0 (0)	0-0	0.02 (0.02)	0-0.04	0.03 (0.02)	0-0.06
Winter	0 (0)	0-0	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04
Non-breeding	0 (0)	0-0	0 (0)	0-0	0.03 (0.02)	0-0.06

Table 5. VE North. Seasonal peak density of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.3 (0.22)	0-0.81	0.17 (0.11)	0-0.41	0.11 (0.07)	0.01-0.25
Breeding (full)	0.74 (0.35)	0.11-1.47	0.72 (0.23)	0.32-1.19	0.69 (0.14)	0.42-0.96
Autumn migration	2.13 (1.03)	0.37-4.21	2.52 (0.67)	1.28-3.87	2.12 (0.35)	1.44-2.81
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. VE North. Seasonal peak density of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.05 (0.04)	0-0.15	0.04 (0.04)	0-0.13	0.05 (0.03)	0-0.1
Breeding (full)	0.05 (0.04)	0-0.16	0.02 (0.01)	0-0.05	0.01 (0.01)	0-0.03
Autumn migration	0.05 (0.04)	0-0.16	0.04 (0.02)	0-0.09	0.14 (0.08)	0-0.28
Winter	0.25 (0.17)	0-0.61	0.24 (0.11)	0.06-0.45	0.46 (0.21)	0.12-0.92
Non-breeding	0.25 (0.17)	0-0.61	0.24 (0.11)	0.06-0.45	0.46 (0.21)	0.12-0.92



Table 7. VE North. Seasonal peak density of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3.16 (1.63)	0.4-6.38	3.5 (0.82)	1.85-5.02	3.95 (0.63)	2.71-5.18
Breeding (full)	3.53 (1.33)	1.04-6.18	3.61 (0.64)	2.37-4.92	3.89 (0.48)	2.97-4.85
Autumn migration	0.85 (0.42)	0.1-1.71	0.58 (0.18)	0.26-0.92	0.48 (0.1)	0.31-0.67
Winter	1.25 (0.5)	0.32-2.25	1.16 (0.28)	0.62-1.69	1.2 (0.16)	0.9-1.5
Non-breeding	3.16 (1.63)	0.4-6.38	3.5 (0.82)	1.85-5.02	3.95 (0.63)	2.71-5.18

Table 8. VE North. Seasonal peak density of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	3.57 (1.83)	0.45-7.19	3.95 (0.93)	2.08-5.67	4.37 (0.7)	3-5.74
Breeding (full)	3.74 (1.41)	1.1-6.55	3.79 (0.67)	2.49-5.16	4.06 (0.51)	3.1-5.06
Autumn migration	0.85 (0.42)	0.1-1.71	0.58 (0.18)	0.26-0.92	0.51 (0.11)	0.32-0.71
Winter	1.36 (0.54)	0.35-2.44	1.34 (0.32)	0.72-1.95	1.38 (0.18)	1.03-1.74
Non-breeding	3.57 (1.83)	0.45-7.19	3.95 (0.93)	2.08-5.67	4.37 (0.7)	3-5.74

Table 9. VE North. Seasonal peak density of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	4.67 (2.4)	0.59-9.42	5.15 (1.21)	2.72-7.4	5.71 (0.91)	3.91-7.49
Breeding (full)	4.88 (1.84)	1.43-8.55	4.96 (0.88)	3.26-6.76	5.31 (0.66)	4.05-6.62
Autumn migration	1.11 (0.54)	0.13-2.21	0.75 (0.23)	0.33-1.2	0.67 (0.15)	0.42-0.94
Winter	1.78 (0.7)	0.46-3.19	1.76 (0.42)	0.95-2.57	1.8 (0.24)	1.35-2.27
Non-breeding	4.67 (2.4)	0.59-9.42	5.15 (1.21)	2.72-7.4	5.71 (0.91)	3.91-7.49

Table 10. VE North. Seasonal peak density of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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)	0.58 (0.42)	0-1.41	0.25 (0.18)	0-0.65	0.14 (0.11)	0-0.37
Autumn migration	0.05 (0.04)	0-0.15	0.02 (0.02)	0-0.06	0.04 (0.02)	0-0.09
Winter	0.1 (0.07)	0-0.25	0.09 (0.05)	0-0.19	0.12 (0.04)	0.05-0.2
Non-breeding	0.1 (0.07)	0-0.25	0.09 (0.05)	0-0.19	0.12 (0.04)	0.05-0.2

Table 11. VE North. Seasonal peak density of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.6 (0.37)	0-1.36	0.73 (0.3)	0.17-1.33	0.57 (0.18)	0.25-0.94
Breeding (full)	1.58 (0.68)	0.42-2.94	1.39 (0.4)	0.65-2.17	1.55 (0.28)	1.01-2.11
Autumn migration	0.46 (0.25)	0-0.98	0.53 (0.16)	0.22-0.83	0.58 (0.11)	0.37-0.81
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0.6 (0.37)	0-1.36	0.73 (0.3)	0.17-1.33	0.58 (0.11)	0.37-0.81

Table 12. VE North. Seasonal peak density of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
Breeding (full)	7.14 (5.31)	0-19.31	3.05 (2.32)	0-8.37	1.91 (1.37)	0.06-5.01
Autumn migration	0.16 (0.1)	0-0.36	0.11 (0.05)	0.02-0.2	0.08 (0.03)	0.01-0.14
Winter	0.05 (0.04)	0-0.15	0.04 (0.02)	0-0.09	0.08 (0.05)	0-0.18
Non-breeding	0.16 (0.1)	0-0.36	0.11 (0.05)	0.02-0.2	0.08 (0.03)	0.01-0.14

Table 13. VE North. Seasonal peak density of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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)	0.1 (0.08)	0-0.21	0.04 (0.04)	0-0.13	0.04 (0.03)	0-0.1
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	0.05 (0.04)	0-0.16	0.02 (0.02)	0-0.07	0.04 (0.02)	0-0.08

Table 14. VE North. Seasonal peak density of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
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	0.01 (0.01)	0-0.03

Table 15. VE North. Seasonal peak density of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
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	0.01 (0.01)	0-0.03

Table 16. VE North. Seasonal peak density of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
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	0.01 (0.01)	0-0.03

Table 17. VE North. Seasonal peak density of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.35 (0.95)	0.58-4.22	2.55 (0.51)	1.6-3.54	2.4 (0.27)	1.85-2.91
Breeding (full)	0.16 (0.08)	0-0.31	0.31 (0.13)	0.09-0.6	0.34 (0.12)	0.13-0.6
Autumn migration	0.86 (0.48)	0-1.82	0.71 (0.29)	0.17-1.3	0.61 (0.21)	0.21-1.03
Winter	2.78 (1.33)	0.15-5.35	3.34 (0.73)	1.99-4.77	3.4 (0.57)	2.39-4.62
Non-breeding	2.78 (1.33)	0.15-5.35	3.34 (0.73)	1.99-4.77	3.4 (0.57)	2.39-4.62

Table 18. VE North. Seasonal peak density of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.45 (1)	0.59-4.42	2.66 (0.53)	1.66-3.7	2.5 (0.28)	1.93-3.04
Breeding (full)	0.16 (0.08)	0-0.31	0.33 (0.14)	0.1-0.63	0.37 (0.13)	0.14-0.64
Autumn migration	0.91 (0.51)	0-1.93	0.71 (0.29)	0.17-1.3	0.63 (0.22)	0.21-1.05
Winter	3.58 (1.73)	0.17-6.94	3.97 (0.86)	2.36-5.65	3.87 (0.64)	2.73-5.24
Non-breeding	3.58 (1.73)	0.17-6.94	3.97 (0.86)	2.36-5.65	3.87 (0.64)	2.73-5.24

Table 19. VE North. Seasonal peak density of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.97 (1.21)	0.71-5.37	3.21 (0.64)	2.01-4.47	3.04 (0.35)	2.35-3.69
Breeding (full)	0.21 (0.1)	0-0.42	0.42 (0.18)	0.12-0.81	0.45 (0.16)	0.17-0.78
Autumn migration	1.07 (0.59)	0-2.25	0.78 (0.32)	0.19-1.41	0.69 (0.24)	0.23-1.16
Winter	4.34 (2.1)	0.2-8.41	4.79 (1.04)	2.85-6.82	4.68 (0.78)	3.31-6.33
Non-breeding	4.34 (2.1)	0.2-8.41	4.79 (1.04)	2.85-6.82	4.68 (0.78)	3.31-6.33

Table 20. VE North. Seasonal peak density of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.06 (0.03)	0.01-0.14
Breeding (full)	0 (0)	0-0	0.04 (0.03)	0-0.09	0.03 (0.02)	0-0.05
Autumn migration	0 (0)	0-0	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04
Winter	0.05 (0.04)	0-0.15	0.04 (0.02)	0-0.09	0.02 (0.01)	0-0.05
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 21. VE North. Seasonal peak density of Sandwich tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
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. VE South. Seasonal peak density of Arctic skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
Winter	0 (0)	0-0	0.02 (0.02)	0-0.05	0.01 (0.01)	0-0.03
Non-breeding	0 (0)	0-0	0.02 (0.02)	0-0.05	0.01 (0.01)	0-0.03



Table 23. VE South. Seasonal peak density of Black-headed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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)	0.11 (0.06)	0-0.22	0.05 (0.03)	0-0.09	0.07 (0.03)	0.01-0.13
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	0.06 (0.05)	0-0.17	0.1 (0.07)	0-0.24	0.07 (0.04)	0-0.15

Table 24. VE South. Seasonal peak density of Common gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04
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	0.16 (0.09)	0-0.33	0.12 (0.05)	0.05-0.21	0.12 (0.03)	0.07-0.17

Table 25. VE South. Seasonal peak density of Common tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.02 (0.02)	0-0.07	0.03 (0.02)	0-0.07
Autumn migration	0 (0)	0-0	0 (0)	0-0	0.05 (0.03)	0-0.11
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0.05 (0.03)	0-0.11

Table 26. VE South. Seasonal peak density of Cormorant recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.35 (0.28)	0-0.7	0.15 (0.12)	0-0.44	0.08 (0.07)	0-0.25
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0.35 (0.28)	0-0.7	0.15 (0.12)	0-0.44	0.08 (0.07)	0-0.25

Table 27. VE South. Seasonal peak density of Fulmar recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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)	0.4 (0.14)	0.11-0.68	0.54 (0.32)	0.05-1.22	0.53 (0.22)	0.15-0.97
Autumn migration	0.06 (0.04)	0-0.12	0.12 (0.08)	0-0.3	0.48 (0.18)	0.13-0.86
Winter	0 (0)	0-0	0.02 (0.02)	0-0.05	0.01 (0.01)	0-0.03
Non-breeding	0.06 (0.04)	0-0.12	0.12 (0.08)	0-0.3	0.48 (0.18)	0.13-0.86

Table 28. VE South. Seasonal peak density of Gannet recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.16 (0.13)	0-0.44	0.28 (0.14)	0.05-0.56	0.63 (0.23)	0.21-1.08
Breeding (full)	1.39 (1.04)	0-3.82	0.84 (0.49)	0.07-1.8	0.64 (0.38)	0.07-1.27
Autumn migration	2.3 (0.88)	0.75-4.09	1.71 (0.44)	0.86-2.52	1.53 (0.22)	1.11-1.96
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 29. VE South. Seasonal peak density of Great black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.11 (0.09)	0-0.33	0.17 (0.08)	0-0.31	0.22 (0.09)	0.07-0.4
Breeding (full)	0 (0)	0-0	0.07 (0.04)	0-0.15	0.08 (0.03)	0.01-0.15
Autumn migration	0.17 (0.14)	0-0.52	0.31 (0.15)	0.07-0.63	0.49 (0.21)	0.11-0.88
Winter	0 (0)	0-0	0.09 (0.06)	0-0.23	0.11 (0.04)	0.04-0.19
Non-breeding	0.17 (0.14)	0-0.52	0.31 (0.15)	0.07-0.63	0.49 (0.21)	0.11-0.88

Table 30. VE South. Seasonal peak density of Great skua recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.03
Breeding (full)	0.06 (0.05)	0-0.17	0.05 (0.03)	0-0.1	0.06 (0.02)	0.01-0.1
Autumn migration	0 (0)	0-0	0.02 (0.02)	0-0.07	0.03 (0.01)	0-0.06
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0 (0)	0-0	0.02 (0.02)	0-0.07	0.03 (0.01)	0-0.06

Table 31. VE South. Seasonal peak density of Guillemot recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	16.22 (4.57)	7.32-25.02	14.07 (2.32)	9.58-18.63	11.95 (1.08)	9.79-14.08
Breeding (full)	2.25 (0.9)	0.67-4.09	2.16 (0.48)	1.23-3.09	2.81 (0.61)	1.72-3.95
Autumn migration	0.4 (0.18)	0.11-0.74	0.34 (0.17)	0.07-0.7	0.3 (0.12)	0.08-0.56
Winter	2.36 (1.03)	0.58-4.44	1.52 (0.48)	0.61-2.47	1.44 (0.28)	0.95-2.02
Non-breeding	16.22 (4.57)	7.32-25.02	14.07 (2.32)	9.58-18.63	11.95 (1.08)	9.79-14.08

Table 32. VE South. Seasonal peak density of Guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	17.8 (5.06)	7.97-27.54	15.45 (2.56)	10.49-20.48	13.16 (1.19)	10.76-15.52
Breeding (full)	2.41 (0.97)	0.72-4.4	2.26 (0.5)	1.29-3.23	2.93 (0.64)	1.8-4.12
Autumn migration	0.46 (0.21)	0.13-0.85	0.34 (0.17)	0.07-0.7	0.33 (0.13)	0.09-0.61
Winter	2.65 (1.16)	0.65-4.98	1.71 (0.54)	0.69-2.8	1.61 (0.31)	1.07-2.25
Non-breeding	17.8 (5.06)	7.97-27.54	15.45 (2.56)	10.49-20.48	13.16 (1.19)	10.76-15.52

Table 33. VE South. Seasonal peak density of Guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	23.1 (6.55)	10.35-35.72	20.14 (3.34)	13.68-26.71	17.18 (1.56)	14.05-20.26
Breeding (full)	3.14 (1.26)	0.95-5.73	2.96 (0.65)	1.69-4.22	3.82 (0.84)	2.34-5.38
Autumn migration	0.57 (0.26)	0.16-1.06	0.44 (0.21)	0.1-0.89	0.43 (0.17)	0.12-0.79
Winter	3.52 (1.53)	0.86-6.6	2.23 (0.71)	0.9-3.64	2.1 (0.41)	1.39-2.93
Non-breeding	23.1 (6.55)	10.35-35.72	20.14 (3.34)	13.68-26.71	17.18 (1.56)	14.05-20.26

Table 34. VE South. Seasonal peak density of Herring gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.05 (0.04)	0-0.09	0.07 (0.04)	0-0.15
Breeding (full)	0.11 (0.09)	0-0.34	0.34 (0.25)	0-0.93	0.2 (0.14)	0-0.52
Autumn migration	0.06 (0.05)	0-0.17	0.09 (0.05)	0-0.19	0.07 (0.04)	0-0.13
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0.06 (0.05)	0-0.17	0.09 (0.05)	0-0.19	0.07 (0.04)	0-0.15

Table 35. VE South. Seasonal peak density of Kittiwake recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.71 (0.27)	0.22-1.26	0.71 (0.21)	0.33-1.11	0.77 (0.14)	0.5-1.06
Breeding (full)	1.69 (0.64)	0.51-2.98	1.83 (0.44)	0.99-2.64	2.12 (0.56)	1.09-3.17
Autumn migration	0.94 (0.39)	0.28-1.71	0.96 (0.3)	0.42-1.55	1.06 (0.24)	0.63-1.56
Winter	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Non-breeding	0.94 (0.39)	0.28-1.71	0.96 (0.3)	0.42-1.55	1.06 (0.24)	0.63-1.56

Table 36. VE South. Seasonal peak density of Lesser black-backed gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.05 (0.04)	0-0.16	0.02 (0.02)	0-0.05	0.01 (0.01)	0-0.03
Breeding (full)	1.83 (1.06)	0-4.23	5.73 (4.27)	0.19-15.79	4.79 (3.46)	0.3-12.95
Autumn migration	0.17 (0.1)	0-0.41	0.57 (0.32)	0.1-1.1	0.79 (0.28)	0.25-1.36
Winter	0.11 (0.09)	0-0.33	0.07 (0.06)	0-0.17	0.09 (0.05)	0.03-0.2
Non-breeding	0.17 (0.1)	0-0.41	0.57 (0.32)	0.1-1.1	0.79 (0.28)	0.25-1.36

Table 37. VE South. Seasonal peak density of Little gull recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.05 (0.03)	0-0.1	0.03 (0.02)	0-0.06

Table 38. VE South. Seasonal peak density of Puffin recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.04
Non-breeding	0 (0)	0-0	0 (0)	0-0	0.01 (0.01)	0-0.04



Table 39. VE South. Seasonal peak density of Puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.04
Non-breeding	0 (0)	0-0	0 (0)	0-0	0.01 (0.01)	0-0.04

Table 40. VE South. Seasonal peak density of Puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.01 (0.01)	0-0.04
Non-breeding	0 (0)	0-0	0 (0)	0-0	0.01 (0.01)	0-0.04

Table 41. VE South. Seasonal peak density of Razorbill recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.13 (0.85)	0.62-3.82	1.44 (0.42)	0.67-2.27	1.93 (0.58)	0.93-2.99
Breeding (full)	0.23 (0.19)	0-0.68	0.15 (0.08)	0-0.31	0.14 (0.06)	0.03-0.26
Autumn migration	0.22 (0.14)	0-0.5	0.91 (0.42)	0.17-1.8	0.8 (0.26)	0.34-1.32
Winter	1.47 (0.82)	0.11-3.16	1.53 (0.61)	0.49-2.72	1.84 (0.34)	1.2-2.54
Non-breeding	2.24 (1.01)	0.55-4.38	1.98 (0.47)	1.14-2.89	2.3 (0.41)	1.54-3.09

Table 42. VE South. Seasonal peak density of Razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.19 (0.87)	0.64-3.91	1.48 (0.44)	0.69-2.35	2.03 (0.61)	0.98-3.14
Breeding (full)	0.23 (0.19)	0-0.68	0.15 (0.08)	0-0.31	0.14 (0.06)	0.03-0.26
Autumn migration	0.22 (0.14)	0-0.5	0.94 (0.43)	0.17-1.85	0.87 (0.28)	0.38-1.43
Winter	1.64 (0.92)	0.12-3.52	1.7 (0.67)	0.54-3.02	2.16 (0.41)	1.39-3
Non-breeding	2.57 (1.16)	0.61-5.04	2.21 (0.53)	1.26-3.24	2.58 (0.46)	1.73-3.47

Table 43. VE South. Seasonal peak density of Razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	2.64 (1.05)	0.77-4.72	1.77 (0.52)	0.82-2.81	2.44 (0.73)	1.18-3.77
Breeding (full)	0.23 (0.19)	0-0.68	0.17 (0.09)	0-0.36	0.15 (0.07)	0.03-0.29
Autumn migration	0.28 (0.17)	0-0.62	1.13 (0.52)	0.2-2.23	1.05 (0.33)	0.45-1.73
Winter	1.98 (1.11)	0.15-4.25	2.07 (0.82)	0.66-3.66	2.62 (0.5)	1.69-3.63
Non-breeding	2.95 (1.33)	0.71-5.78	2.63 (0.63)	1.51-3.85	3.06 (0.54)	2.05-4.11

Table 44. VE South. Seasonal peak density of Red-throated diver recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas and 4km buffer	
	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.	Estimate (S.D.)	95% c.i.
Spring migration	0.06 (0.05)	0-0.17	0.09 (0.05)	0-0.16	0.05 (0.03)	0-0.09
Breeding (full)	0 (0)	0-0	0.02 (0.02)	0-0.07	0.03 (0.02)	0-0.08
Autumn migration	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0
Winter	0 (0)	0-0	0.05 (0.04)	0-0.14	0.04 (0.01)	0.01-0.07
Non-breeding	0 (0)	0-0	0 (0)	0-0	0 (0)	0-0

Table 45. VE South. Seasonal peak density of Sandwich tern recorded in flight and on the sea, S.D. and 95% confidence intervals, in the Array Areas, Array Areas and 2km buffer and Array Areas and 4km buffer.

Season	Density					
	Array Areas		Array Areas & 2km buffer		Array Areas 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	0.06 (0.05)	0-0.17	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04
Non-breeding	0.06 (0.05)	0-0.17	0.02 (0.02)	0-0.07	0.01 (0.01)	0-0.04



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