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## West of Orkney Windfarm

### Offshore Ornithology Supplementary Environmental Information

#### Annex 1M: Design-based analysis mean density estimates from each calendar month of sitting birds

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## 1.1 Arctic Skua

**Table 1. Monthly density (birds/km<sup>2</sup>) of Arctic skua recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
May	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jul	0 (0.01)	0	0-0.02	2.17	0.01 (0.02)	0.01	0-0.05	1.76	0.01 (0.01)	0.01	0-0.04	1.76
Aug	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

## 1.2 Arctic Tern

**Table 2. Monthly density (birds/km<sup>2</sup>) of Arctic tern recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	0.06 (0.1)	0.06	0-0.35	1.69	0.04 (0.07)	0.04	0-0.26	1.67	0.03 (0.06)	0.03	0-0.2	1.65
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	0.03 (0.07)	0.03	0-0.29	2.22	0.02 (0.05)	0.02	0-0.21	2.29	0.02 (0.04)	0.02	0-0.13	2.03
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

### 1.3 Auk sp.

Table 3. Monthly density (birds/km<sup>2</sup>) of auk sp. recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.12 (0.04)	0.12	0.05-0.21	0.35	0.14 (0.04)	0.14	0.07-0.21	0.26	0.11 (0.03)	0.11	0.06-0.17	0.27
Feb	0.02 (0.02)	0.02	0-0.05	0.78	0.01 (0.01)	0.01	0-0.03	0.76	0.02 (0.01)	0.02	0-0.05	0.81
Mar	0.02 (0.03)	0.02	0-0.09	1.33	0.03 (0.02)	0.03	0-0.09	0.91	0.02 (0.02)	0.02	0-0.07	0.93
Apr	0.18 (0.14)	0.18	0.01-0.43	0.79	0.17 (0.13)	0.17	0.02-0.39	0.78	0.18 (0.15)	0.18	0.01-0.41	0.84
May	0.04 (0.04)	0.04	0-0.13	0.96	0.05 (0.05)	0.05	0-0.16	0.98	0.07 (0.06)	0.07	0-0.17	0.87
Jun	0.06 (0.06)	0.06	0-0.19	0.98	0.06 (0.05)	0.06	0-0.16	0.98	0.07 (0.06)	0.07	0-0.19	0.88
Jul	0.26 (0.19)	0.26	0-0.56	0.72	0.27 (0.17)	0.28	0.03-0.55	0.64	0.29 (0.19)	0.29	0.02-0.62	0.66
Aug	0.12 (0.1)	0.12	0.01-0.34	0.79	0.14 (0.1)	0.14	0.02-0.34	0.72	0.14 (0.08)	0.14	0.02-0.29	0.62
Sep	0.12 (0.07)	0.12	0.01-0.26	0.60	0.12 (0.07)	0.12	0.02-0.25	0.58	0.11 (0.07)	0.11	0.01-0.23	0.57
Oct	0.06 (0.03)	0.06	0.01-0.13	0.58	0.08 (0.03)	0.08	0.03-0.13	0.32	0.07 (0.02)	0.07	0.03-0.11	0.30
Nov	0.08 (0.04)	0.08	0.01-0.15	0.46	0.08 (0.03)	0.08	0.03-0.14	0.35	0.06 (0.02)	0.06	0.03-0.11	0.32
Dec	0.04 (0.05)	0.04	0-0.14	1.15	0.04 (0.05)	0.04	0-0.13	1.09	0.04 (0.04)	0.04	0-0.11	1.09

## 1.4 Black Guillemot

**Table 4. Monthly density (birds/km<sup>2</sup>) of black guillemot recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0	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)	0	0-0	
Mar	0 (0)	0	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)	0	0-0	
May	0 (0)	0	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)	0	0-0	
Jul	0 (0.01)	0	0-0.02	2.12	0 (0.01)	0	0-0.03	2.19	0 (0)	0	0-0.01	2.07
Aug	0 (0)	0	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)	0	0-0	
Oct	0 (0)	0	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)	0	0-0	
Dec	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0	0-0	

## 1.5 Fulmar

**Table 5. Monthly density (birds/km<sup>2</sup>) of fulmar recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.87 (0.32)	0.88	0.35-1.53	0.37	0.97 (0.29)	0.98	0.44-1.59	0.30	1.12 (0.24)	1.11	0.68-1.58	0.21
Feb	0.17 (0.11)	0.17	0.04-0.45	0.67	0.18 (0.08)	0.17	0.07-0.38	0.47	0.17 (0.08)	0.17	0.07-0.36	0.48
Mar	0.28 (0.13)	0.28	0.08-0.53	0.46	0.38 (0.17)	0.38	0.11-0.73	0.45	0.36 (0.14)	0.35	0.13-0.64	0.40
Apr	0.18 (0.25)	0.19	0-0.93	1.38	0.14 (0.18)	0.14	0.01-0.69	1.29	0.13 (0.14)	0.13	0.01-0.54	1.10



Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0.02 (0.02)	0.02	0-0.07	1.27	0.04 (0.02)	0.04	0.01-0.09	0.51	0.04 (0.02)	0.04	0.01-0.09	0.49
Jun	0.02 (0.02)	0.02	0-0.07	1.25	0.02 (0.02)	0.02	0-0.06	1.18	0.02 (0.03)	0.02	0-0.07	1.10
Jul	0.26 (0.22)	0.26	0.01-0.75	0.86	0.28 (0.26)	0.28	0.02-0.81	0.92	0.38 (0.37)	0.37	0.04-1.1	0.97
Aug	0.94 (0.9)	0.93	0.01-3.31	0.96	0.8 (0.69)	0.80	0.03-2.44	0.86	0.74 (0.57)	0.75	0.06-2	0.76
Sep	1.89 (1.7)	1.91	0.4-6.65	0.90	1.6 (1.28)	1.60	0.38-5.14	0.80	1.38 (0.93)	1.36	0.4-3.91	0.68
Oct	1.18 (0.58)	1.18	0.21-2.59	0.49	1.15 (0.45)	1.14	0.32-2.08	0.39	1.69 (0.88)	1.66	0.36-3.47	0.52
Nov	0.33 (0.38)	0.32	0.04-1.42	1.15	0.26 (0.29)	0.27	0.03-1.07	1.08	0.42 (0.3)	0.42	0.05-1.1	0.72
Dec	0.67 (0.19)	0.67	0.35-1.1	0.28	0.88 (0.26)	0.88	0.47-1.48	0.30	0.81 (0.22)	0.82	0.47-1.3	0.27

## 1.6 Gannet

Table 6. Monthly density (birds/km<sup>2</sup>) of gannet recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.02 (0.02)	0.02	0-0.07	0.82	0.03 (0.02)	0.03	0-0.06	0.61	0.02 (0.01)	0.02	0-0.05	0.63
Feb	0.01 (0.01)	0.01	0-0.04	1.31	0.01 (0.01)	0.01	0-0.03	1.31	0.01 (0.01)	0.01	0-0.03	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	1.34
Apr	0.38 (0.28)	0.38	0.05-0.84	0.73	0.37 (0.23)	0.37	0.09-0.74	0.63	0.35 (0.2)	0.35	0.1-0.66	0.57
May	0.15 (0.05)	0.15	0.06-0.26	0.33	0.2 (0.06)	0.20	0.1-0.36	0.32	0.2 (0.05)	0.20	0.11-0.31	0.26
Jun	0.19 (0.2)	0.19	0-0.57	1.04	0.19 (0.18)	0.19	0.01-0.5	0.92	0.19 (0.17)	0.19	0.01-0.47	0.87
Jul	0.17 (0.13)	0.17	0.01-0.46	0.76	0.15 (0.09)	0.15	0.02-0.35	0.59	0.23 (0.2)	0.23	0.05-0.8	0.88
Aug	0.95 (1.62)	0.97	0.08-5.64	1.70	0.72 (1.16)	0.73	0.09-3.87	1.60	0.59 (0.9)	0.60	0.09-3.01	1.52
Sep	0.41 (0.19)	0.41	0.14-0.81	0.46	0.39 (0.16)	0.38	0.19-0.73	0.42	0.45 (0.16)	0.45	0.2-0.77	0.36
Oct	0.85 (0.3)	0.86	0.39-1.39	0.35	0.8 (0.28)	0.80	0.38-1.29	0.35	0.75 (0.26)	0.75	0.38-1.19	0.34
Nov	0.01 (0.01)	0.01	0-0.04	1.62	0.01 (0.02)	0.01	0-0.05	1.24	0.01 (0.02)	0.01	0-0.05	1.18
Dec	0.02 (0.02)	0.02	0-0.07	1.33	0.02 (0.03)	0.02	0-0.08	1.21	0.02 (0.02)	0.02	0-0.06	1.19

**1.7 Great Black-backed Gull**

**Table 7. Monthly density (birds/km<sup>2</sup>) of great black-backed gull recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.06 (0.02)	0.06	0.01-0.11	0.40	0.04 (0.02)	0.04	0.02-0.08	0.39	0.05 (0.02)	0.05	0.02-0.09	0.31
Feb	0.07 (0.05)	0.08	0.01-0.2	0.72	0.1 (0.08)	0.10	0.01-0.29	0.85	0.1 (0.07)	0.10	0.02-0.29	0.73
Mar	0.01 (0.02)	0.01	0-0.05	1.36	0.02 (0.01)	0.02	0-0.05	0.82	0.02 (0.01)	0.02	0-0.03	0.57
Apr	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0.01)	0.00	0-0.03	1.62	0 (0.01)	0.00	0-0.02	1.67
Nov	0.12 (0.06)	0.12	0.02-0.25	0.53	0.11 (0.07)	0.11	0.02-0.23	0.61	0.09 (0.06)	0.09	0.01-0.2	0.63
Dec	0.12 (0.12)	0.12	0-0.37	1.00	0.15 (0.11)	0.15	0.02-0.36	0.72	0.14 (0.11)	0.14	0.01-0.33	0.77

**1.8 Great Northern Diver**

**Table 8. Monthly density (birds/km<sup>2</sup>) of great northern diver recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0.01 (0.01)	0.01	0-0.04	0.9	0.01 (0.01)	0.01	0-0.03	0.93	0.01 (0.01)	0.01	0-0.02	0.94
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

### 1.9 Great Skua

Table 9. Monthly density (birds/km<sup>2</sup>) of great skua recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0.01 (0.01)	0.01	0-0.04	0.92	0.01 (0.01)	0.01	0-0.03	0.78	0.02 (0.01)	0.02	0-0.05	0.82
May	0.01 (0.01)	0.01	0-0.04	1.64	0.01 (0.01)	0.01	0-0.03	0.91	0.01 (0.01)	0.01	0-0.03	0.62
Jun	0.02 (0.03)	0.02	0-0.08	1.22	0.02 (0.02)	0.02	0-0.06	1.21	0.02 (0.02)	0.02	0-0.06	1.17
Jul	0 (0.01)	0.00	0-0.02	2.09	0 (0.01)	0.00	0-0.02	2.06	0 (0.01)	0.00	0-0.02	1.29
Aug	0.14 (0.24)	0.14	0-0.81	1.72	0.1 (0.18)	0.11	0-0.6	1.79	0.08 (0.14)	0.08	0-0.46	1.78
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0.01 (0.01)	0.01	0-0.04	1.64	0 (0.01)	0.00	0-0.03	1.61	0 (0.01)	0.00	0-0.02	1.61
Nov	0.01 (0.01)	0.01	0-0.02	1.56	0 (0.01)	0.00	0-0.03	1.67	0 (0.01)	0.00	0-0.02	1.63
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

## 1.10 Guillemot

**Table 10. Monthly density (birds/km<sup>2</sup>) of guillemot recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.83 (0.14)	0.83	0.55-1.13	0.17	1.08 (0.14)	1.09	0.84-1.37	0.13	1.12 (0.13)	1.11	0.87-1.37	0.12
Feb	0.91 (1)	0.92	0.06-3.16	1.10	0.85 (0.82)	0.85	0.12-2.64	0.96	0.84 (0.72)	0.84	0.19-2.29	0.86
Mar	1.07 (0.88)	1.06	0.11-2.31	0.82	1.16 (0.91)	1.16	0.18-2.43	0.78	1.34 (1.08)	1.34	0.21-2.93	0.80
Apr	3.22 (1.93)	3.21	1.04-6.23	0.60	3.37 (2.07)	3.36	1.06-6.24	0.61	3.68 (2.31)	3.66	1.16-6.66	0.63
May	0.64 (0.42)	0.65	0.12-1.37	0.65	0.71 (0.43)	0.71	0.16-1.43	0.60	1.07 (0.63)	1.06	0.26-2.18	0.59
Jun	1.58 (0.82)	1.57	0.5-3.29	0.52	1.35 (0.67)	1.35	0.49-2.76	0.50	1.3 (0.55)	1.32	0.6-2.44	0.42
Jul	3.34 (2.36)	3.34	0.54-7.81	0.71	3.78 (2.68)	3.77	0.71-8.79	0.71	3.5 (2.25)	3.49	0.9-7.59	0.64
Aug	2.11 (0.99)	2.11	0.67-3.94	0.47	2.48 (1.15)	2.48	0.83-4.59	0.46	2.95 (1.58)	2.96	0.94-5.81	0.54
Sep	3.32 (0.56)	3.30	2.12-4.29	0.17	3.46 (0.44)	3.47	2.61-4.31	0.13	3.65 (0.4)	3.65	2.94-4.63	0.11
Oct	2.43 (0.5)	2.42	1.65-3.54	0.20	2.73 (0.67)	2.73	1.8-4	0.24	2.65 (0.57)	2.66	1.88-3.71	0.22
Nov	0.58 (0.32)	0.58	0.19-1.13	0.56	0.61 (0.23)	0.60	0.29-1	0.37	0.63 (0.25)	0.63	0.3-1.02	0.39
Dec	0.73 (0.34)	0.73	0.26-1.3	0.47	0.94 (0.37)	0.93	0.43-1.52	0.39	1.02 (0.37)	1.03	0.54-1.59	0.37

**Table 11. Monthly density (birds/km<sup>2</sup>) of guillemot (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.97 (0.17)	0.97	0.65-1.33	0.17	1.25 (0.16)	1.25	0.97-1.58	0.13	1.27 (0.15)	1.26	0.99-1.56	0.12
Feb	0.96 (0.25)	0.97	0.54-1.48	0.26	0.9 (0.2)	0.91	0.59-1.33	0.22	0.9 (0.15)	0.90	0.63-1.24	0.17
Mar	1.17 (0.16)	1.16	0.87-1.48	0.14	1.26 (0.15)	1.26	0.98-1.57	0.12	1.44 (0.19)	1.44	1.1-1.83	0.13
Apr	3.43 (0.46)	3.42	2.55-4.32	0.13	3.57 (0.35)	3.55	2.89-4.26	0.10	3.89 (0.29)	3.88	3.34-4.46	0.07
May	0.66 (0.14)	0.66	0.39-0.95	0.22	0.73 (0.15)	0.73	0.45-1.05	0.21	1.11 (0.23)	1.10	0.68-1.59	0.21

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jun	1.61 (0.44)	1.60	0.84-2.52	0.27	1.38 (0.33)	1.37	0.78-2.08	0.24	1.33 (0.28)	1.34	0.87-1.95	0.21
Jul	3.54 (0.62)	3.53	2.39-4.8	0.18	3.99 (0.6)	3.98	2.84-5.18	0.15	3.7 (0.46)	3.70	2.84-4.66	0.12
Aug	2.2 (0.37)	2.19	1.52-2.92	0.17	2.57 (0.36)	2.57	1.87-3.27	0.14	3.04 (0.34)	3.05	2.42-3.72	0.11
Sep	3.47 (0.46)	3.45	2.61-4.37	0.13	3.61 (0.39)	3.62	2.88-4.41	0.11	3.79 (0.37)	3.79	3.08-4.56	0.10
Oct	2.57 (0.37)	2.57	1.88-3.31	0.14	2.9 (0.34)	2.90	2.28-3.6	0.12	2.82 (0.26)	2.82	2.35-3.33	0.09
Nov	0.7 (0.12)	0.69	0.46-0.94	0.18	0.73 (0.11)	0.73	0.52-0.96	0.15	0.74 (0.09)	0.74	0.58-0.91	0.12
Dec	0.84 (0.13)	0.84	0.58-1.11	0.16	1.08 (0.14)	1.08	0.82-1.35	0.13	1.15 (0.11)	1.15	0.93-1.39	0.10

**Table 12. Monthly density (birds/km<sup>2</sup>) of guillemot (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	1.27 (0.22)	1.27	0.86-1.75	0.17	1.64 (0.21)	1.65	1.27-2.07	0.13	1.67 (0.2)	1.66	1.3-2.05	0.12
Feb	1.26 (0.33)	1.27	0.71-1.95	0.26	1.19 (0.26)	1.19	0.77-1.74	0.22	1.19 (0.2)	1.18	0.83-1.62	0.17
Mar	1.53 (0.22)	1.53	1.14-1.95	0.14	1.65 (0.2)	1.65	1.28-2.06	0.12	1.89 (0.24)	1.89	1.45-2.4	0.13
Apr	4.5 (0.6)	4.48	3.34-5.66	0.13	4.68 (0.46)	4.66	3.79-5.58	0.10	5.1 (0.38)	5.08	4.38-5.85	0.07
May	0.87 (0.19)	0.87	0.52-1.25	0.22	0.96 (0.2)	0.96	0.6-1.38	0.21	1.46 (0.31)	1.44	0.89-2.09	0.21
Jun	2.11 (0.57)	2.10	1.11-3.31	0.27	1.81 (0.44)	1.80	1.02-2.73	0.24	1.74 (0.37)	1.76	1.14-2.55	0.21
Jul	4.64 (0.81)	4.63	3.14-6.29	0.18	5.23 (0.78)	5.22	3.72-6.8	0.15	4.85 (0.6)	4.85	3.72-6.11	0.12
Aug	2.88 (0.48)	2.87	1.99-3.83	0.17	3.37 (0.47)	3.37	2.46-4.28	0.14	3.99 (0.45)	4.00	3.17-4.88	0.11
Sep	4.54 (0.6)	4.52	3.42-5.72	0.13	4.73 (0.52)	4.74	3.78-5.77	0.11	4.96 (0.49)	4.97	4.04-5.98	0.10
Oct	3.37 (0.48)	3.36	2.46-4.34	0.14	3.81 (0.44)	3.80	2.99-4.71	0.12	3.69 (0.34)	3.70	3.08-4.37	0.09
Nov	0.91 (0.16)	0.91	0.6-1.22	0.18	0.96 (0.15)	0.96	0.68-1.26	0.15	0.97 (0.11)	0.97	0.76-1.19	0.12
Dec	1.11 (0.18)	1.11	0.76-1.46	0.16	1.41 (0.18)	1.41	1.07-1.77	0.13	1.51 (0.15)	1.51	1.22-1.82	0.10

### 1.11 Herring Gull

**Table 13. Monthly density (birds/km<sup>2</sup>) of herring gull recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Mar	0.01 (0.01)	0.01	0-0.04	1.68	0 (0.01)	0.00	0-0.03	1.62	0 (0.01)	0.00	0-0.02	1.63
Apr	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
May	0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	1.56	0.01 (0.01)	0.01	0-0.04	1.65
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0.01 (0.01)	0.01	0-0.04	0.90	0.01 (0.01)	0.01	0-0.03	0.92	0.01 (0.01)	0.01	0-0.02	0.91
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

### 1.12 Kittiwake

**Table 14. Monthly density (birds/km<sup>2</sup>) of kittiwake recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	0.97	0.02 (0.01)	0.02	0-0.04	0.53
Feb	0.06 (0.07)	0.06	0-0.22	1.08	0.05 (0.05)	0.05	0-0.16	0.97	0.05 (0.04)	0.05	0-0.13	0.89
Mar	0.54 (0.2)	0.54	0.2-0.96	0.36	0.51 (0.17)	0.52	0.24-0.86	0.32	0.58 (0.16)	0.58	0.32-0.92	0.28
Apr	0.02 (0.02)	0.02	0-0.08	1.39	0.01 (0.02)	0.01	0-0.06	1.43	0.01 (0.01)	0.01	0-0.05	1.40

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0 (0)	0.00	0-0		0 (0.01)	0.00	0-0.03	1.68	0 (0.01)	0.00	0-0.02	1.64
Jun	0.12 (0.1)	0.11	0-0.39	0.88	0.09 (0.08)	0.09	0-0.3	0.87	0.08 (0.07)	0.08	0-0.25	0.87
Jul	0.33 (0.49)	0.34	0-1.63	1.46	0.27 (0.38)	0.27	0-1.28	1.42	0.23 (0.31)	0.23	0-0.99	1.33
Aug	0.03 (0.04)	0.03	0-0.12	1.33	0.02 (0.03)	0.02	0-0.08	1.28	0.03 (0.03)	0.03	0-0.1	1.00
Sep	0 (0.01)	0.00	0-0.02	2.11	0.01 (0.01)	0.01	0-0.03	1.28	0 (0.01)	0.00	0-0.02	1.32
Oct	0.26 (0.29)	0.26	0-0.86	1.10	0.24 (0.26)	0.24	0-0.76	1.07	0.26 (0.27)	0.26	0-0.77	1.05
Nov	0.01 (0.02)	0.01	0-0.05	1.38	0.01 (0.01)	0.01	0-0.03	1.35	0.01 (0.01)	0.01	0-0.03	1.30
Dec	0.03 (0.04)	0.03	0-0.12	1.26	0.02 (0.03)	0.02	0-0.09	1.30	0.02 (0.02)	0.02	0-0.07	1.20

### 1.13 Large Auk sp.

Table 15. Monthly density (birds/km<sup>2</sup>) of large auk sp. recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0.02 (0.02)	0.02	0-0.06	0.70	0.03 (0.01)	0.03	0-0.05	0.54	0.05 (0.02)	0.05	0.01-0.09	0.38
Feb	0.04 (0.04)	0.04	0-0.12	1.00	0.05 (0.04)	0.05	0-0.12	0.81	0.05 (0.03)	0.05	0.01-0.11	0.53
Mar	0.09 (0.04)	0.09	0.02-0.19	0.46	0.09 (0.03)	0.09	0.03-0.16	0.39	0.09 (0.03)	0.09	0.03-0.14	0.33
Apr	0.07 (0.07)	0.07	0-0.2	0.92	0.07 (0.06)	0.07	0-0.17	0.81	0.07 (0.05)	0.07	0.01-0.16	0.76
May	0.01 (0.01)	0.01	0-0.04	1.70	0 (0.01)	0.00	0-0.03	1.69	0.02 (0.02)	0.02	0-0.07	1.01
Jun	0.02 (0.02)	0.02	0-0.07	1.07	0.01 (0.01)	0.01	0-0.05	1.06	0.01 (0.01)	0.01	0-0.04	1.06
Jul	0.02 (0.04)	0.02	0-0.13	1.68	0.04 (0.05)	0.04	0-0.16	1.54	0.04 (0.06)	0.04	0-0.18	1.40
Aug	0.02 (0.02)	0.02	0-0.07	1.12	0.02 (0.01)	0.02	0-0.05	0.83	0.02 (0.02)	0.02	0-0.06	0.62
Sep	0.06 (0.06)	0.06	0-0.21	0.88	0.07 (0.04)	0.07	0.01-0.18	0.64	0.06 (0.03)	0.06	0.01-0.14	0.55
Oct	0.08 (0.04)	0.08	0.02-0.17	0.45	0.1 (0.03)	0.10	0.04-0.16	0.29	0.1 (0.03)	0.10	0.03-0.16	0.35
Nov	0.04 (0.03)	0.04	0-0.09	0.65	0.05 (0.02)	0.05	0.01-0.1	0.46	0.04 (0.02)	0.04	0.01-0.08	0.41
Dec	0.07 (0.05)	0.07	0-0.18	0.68	0.1 (0.05)	0.10	0.03-0.2	0.46	0.09 (0.04)	0.09	0.03-0.17	0.41

**1.14 Lesser Black-backed Gull**

**Table 16. Monthly density (birds/km<sup>2</sup>) of lesser black-backed gull recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0	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)	0	0-0	
Mar	0 (0)	0	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)	0	0-0	
May	0 (0)	0	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)	0	0-0	
Jul	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Aug	0 (0.01)	0	0-0.02	2.08	0 (0.01)	0	0-0.03	2.19	0 (0.01)	0	0-0.03	1.75
Sep	0 (0)	0	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)	0	0-0	
Nov	0 (0)	0	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)	0	0-0	

**1.15 Little Auk**

**Table 17. Monthly density (birds/km<sup>2</sup>) of little auk recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0.01)	0.00	0-0.02	2.08	0.01 (0.01)	0.01	0-0.03	1.39	0 (0.01)	0.00	0-0.02	1.34
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	



Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0.01 (0.01)	0.01	0-0.04	1.65	0.01 (0.02)	0.01	0-0.05	1.23	0.02 (0.02)	0.02	0-0.05	1.16
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

### 1.16 Manx Shearwater

Table 18. Monthly density (birds/km<sup>2</sup>) of Manx shearwater recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0	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)	0	0-0	
Mar	0 (0)	0	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)	0	0-0	
May	0 (0)	0	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)	0	0-0	
Jul	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0	0-0.01	2.14
Aug	0 (0.01)	0	0-0.02	2.01	0 (0.01)	0	0-0.02	1.97	0 (0.01)	0	0-0.03	1.78
Sep	0 (0)	0	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)	0	0-0	
Nov	0 (0)	0	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)	0	0-0	

1.17 Puffin

Table 19. Monthly density (birds/km<sup>2</sup>) of puffin recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	0.97	0.01 (0.01)	0.01	0-0.02	0.93
Feb	0 (0.01)	0.00	0-0.02	2.12	0 (0.01)	0.00	0-0.02	2.10	0 (0)	0.00	0-0.01	2.02
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	1.14 (0.22)	1.15	0.78-1.61	0.19	1.09 (0.17)	1.09	0.81-1.47	0.16	1.01 (0.17)	1.02	0.74-1.35	0.17
May	1.8 (1.71)	1.80	0.07-4.55	0.95	2.11 (1.91)	2.10	0.14-4.96	0.91	2.41 (2.09)	2.41	0.23-5.3	0.87
Jun	5.29 (1.11)	5.28	3.49-7.81	0.21	4.79 (0.88)	4.80	3.37-6.77	0.18	4.73 (0.75)	4.70	3.46-6.34	0.16
Jul	2.32 (1.41)	2.33	0.89-5.18	0.61	2.64 (1.43)	2.66	1.12-5.45	0.54	2.97 (1.21)	2.96	1.43-5.36	0.41
Aug	1.83 (0.75)	1.82	0.85-3.53	0.41	2.46 (1.35)	2.46	1.07-5.49	0.55	2.78 (1.39)	2.80	1.43-5.82	0.50
Sep	1.2 (1.14)	1.20	0.11-3.33	0.95	1.09 (1.06)	1.10	0.1-2.99	0.97	1.04 (0.97)	1.04	0.13-2.71	0.93
Oct	0.17 (0.07)	0.17	0.06-0.32	0.40	0.16 (0.06)	0.16	0.07-0.28	0.37	0.14 (0.05)	0.14	0.07-0.24	0.32
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0.01)	0.00	0-0.02	1.70
Dec	0.01 (0.01)	0.01	0-0.04	1.66	0 (0.01)	0.00	0-0.03	1.65	0.01 (0.01)	0.01	0-0.03	1.31

Table 20. Monthly density (birds/km<sup>2</sup>) of puffin (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	0.97	0.01 (0.01)	0.01	0-0.02	0.93
Feb	0 (0)	0.00	0-0.01	0.89	0 (0)	0.00	0-0.01	0.91	0 (0)	0.00	0-0.01	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	1.18 (0.19)	1.19	0.84-1.56	0.16	1.13 (0.14)	1.13	0.88-1.4	0.12	1.05 (0.11)	1.05	0.84-1.26	0.10
May	1.83 (0.37)	1.83	1.17-2.56	0.20	2.14 (0.32)	2.13	1.54-2.78	0.15	2.45 (0.28)	2.46	1.94-3.04	0.12

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jun	5.33 (1.01)	5.32	3.53-7.45	0.19	4.83 (0.75)	4.85	3.5-6.38	0.16	4.78 (0.64)	4.76	3.62-6.06	0.13
Jul	2.41 (0.36)	2.42	1.75-3.15	0.15	2.74 (0.36)	2.76	2.09-3.49	0.13	3.09 (0.51)	3.09	2.2-4.18	0.16
Aug	1.88 (0.35)	1.87	1.27-2.63	0.18	2.53 (0.44)	2.53	1.72-3.41	0.17	2.85 (0.42)	2.86	2.11-3.74	0.15
Sep	1.23 (0.2)	1.23	0.89-1.67	0.16	1.12 (0.15)	1.13	0.84-1.44	0.14	1.07 (0.11)	1.07	0.87-1.3	0.11
Oct	0.17 (0.05)	0.17	0.08-0.27	0.27	0.16 (0.04)	0.16	0.09-0.24	0.24	0.14 (0.03)	0.14	0.09-0.21	0.22
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0.01	0.96
Dec	0.01 (0.01)	0.01	0-0.02	0.93	0 (0)	0.00	0-0.01	0.93	0.01 (0)	0.01	0-0.02	0.60

**Table 21. Monthly density (birds/km<sup>2</sup>) of puffin (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0.01 (0.01)	0.01	0-0.03	0.97	0.01 (0.01)	0.01	0-0.02	0.93
Feb	0 (0)	0.00	0-0.01	0.89	0 (0)	0.00	0-0.01	0.91	0 (0)	0.00	0-0.01	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	1.38 (0.22)	1.38	0.98-1.82	0.16	1.31 (0.16)	1.31	1.02-1.63	0.12	1.22 (0.13)	1.22	0.98-1.47	0.10
May	2.13 (0.43)	2.13	1.37-2.98	0.20	2.5 (0.37)	2.48	1.79-3.24	0.15	2.86 (0.33)	2.87	2.26-3.55	0.12
Jun	6.21 (1.18)	6.20	4.11-8.68	0.19	5.63 (0.88)	5.65	4.07-7.43	0.16	5.57 (0.74)	5.54	4.21-7.05	0.13
Jul	2.81 (0.42)	2.82	2.04-3.66	0.15	3.19 (0.42)	3.21	2.43-4.07	0.13	3.6 (0.59)	3.60	2.56-4.87	0.16
Aug	2.19 (0.4)	2.18	1.47-3.06	0.18	2.94 (0.51)	2.94	2.01-3.98	0.17	3.32 (0.49)	3.34	2.46-4.36	0.15
Sep	1.43 (0.23)	1.43	1.04-1.94	0.16	1.31 (0.18)	1.31	0.98-1.67	0.14	1.25 (0.13)	1.24	1.01-1.51	0.11
Oct	0.2 (0.05)	0.20	0.1-0.31	0.27	0.19 (0.04)	0.19	0.11-0.28	0.24	0.17 (0.04)	0.17	0.1-0.24	0.22
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0.01	0.96
Dec	0.01 (0.01)	0.01	0-0.02	0.93	0 (0)	0.00	0-0.01	0.93	0.01 (0)	0.01	0-0.02	0.60

**1.18 Razorbill**

**Table 22. Monthly density (birds/km<sup>2</sup>) of razorbill recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0.05 (0.04)	0.05	0-0.14	0.93	0.04 (0.04)	0.04	0-0.12	0.97	0.03 (0.03)	0.03	0-0.09	0.95
Mar	0.06 (0.06)	0.06	0-0.19	0.98	0.07 (0.07)	0.07	0-0.22	0.89	0.08 (0.04)	0.08	0.02-0.17	0.51
Apr	0.04 (0.04)	0.04	0-0.12	1.14	0.06 (0.06)	0.06	0-0.17	1.08	0.07 (0.07)	0.07	0-0.19	1.05
May	0.01 (0.01)	0.01	0-0.02	1.50	0 (0.01)	0.00	0-0.02	1.50	0.01 (0.01)	0.01	0-0.04	0.83
Jun	0.02 (0.03)	0.02	0-0.08	1.16	0.02 (0.02)	0.02	0-0.06	1.18	0.04 (0.04)	0.04	0-0.13	1.15
Jul	0.05 (0.07)	0.05	0-0.24	1.46	0.05 (0.07)	0.05	0-0.23	1.37	0.06 (0.08)	0.06	0-0.24	1.37
Aug	0.06 (0.07)	0.06	0-0.24	1.22	0.06 (0.05)	0.05	0-0.17	0.87	0.05 (0.05)	0.05	0-0.17	0.93
Sep	0.1 (0.05)	0.10	0.01-0.2	0.51	0.13 (0.1)	0.13	0.01-0.39	0.80	0.15 (0.13)	0.15	0.02-0.48	0.86
Oct	0.01 (0.02)	0.01	0-0.05	1.35	0.01 (0.01)	0.01	0-0.03	1.37	0.01 (0.01)	0.01	0-0.04	0.79
Nov	0 (0)	0.00	0-0		0 (0.01)	0.00	0-0.03	1.63	0 (0.01)	0.00	0-0.02	1.72
Dec	0.01 (0.02)	0.01	0-0.05	1.36	0.01 (0.02)	0.01	0-0.05	1.27	0.01 (0.01)	0.01	0-0.04	1.26

**Table 23. Monthly density (birds/km<sup>2</sup>) of razorbill (including unidentified auks apportioned using identified auk ratios) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0.05 (0.03)	0.05	0-0.1	0.49	0.04 (0.02)	0.04	0.01-0.08	0.47	0.03 (0.02)	0.03	0.01-0.07	0.45
Mar	0.07 (0.03)	0.07	0.01-0.14	0.47	0.09 (0.03)	0.09	0.03-0.16	0.39	0.09 (0.03)	0.09	0.03-0.16	0.36
Apr	0.04 (0.01)	0.04	0.01-0.06	0.37	0.06 (0.02)	0.06	0.03-0.1	0.28	0.07 (0.02)	0.07	0.04-0.1	0.23
May	0.01 (0)	0.01	0-0.02	0.80	0 (0)	0.00	0-0.01	0.81	0.01 (0.01)	0.01	0-0.03	0.62

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jun	0.02 (0.01)	0.02	0.01-0.05	0.44	0.02 (0.01)	0.02	0-0.03	0.43	0.04 (0.02)	0.04	0.01-0.07	0.41
Jul	0.05 (0.03)	0.05	0-0.12	0.68	0.05 (0.03)	0.05	0.01-0.11	0.52	0.06 (0.02)	0.06	0.02-0.11	0.39
Aug	0.06 (0.04)	0.06	0.01-0.14	0.60	0.06 (0.03)	0.06	0.01-0.12	0.53	0.05 (0.02)	0.05	0.01-0.11	0.47
Sep	0.1 (0.05)	0.10	0.02-0.21	0.49	0.13 (0.06)	0.14	0.04-0.27	0.46	0.15 (0.06)	0.15	0.05-0.29	0.40
Oct	0.01 (0.01)	0.01	0-0.03	0.66	0.01 (0.01)	0.01	0-0.02	0.66	0.01 (0.01)	0.01	0-0.04	0.78
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0.01	0.92	0 (0)	0.00	0-0.01	0.99
Dec	0.01 (0.01)	0.01	0-0.03	0.66	0.01 (0.01)	0.01	0-0.03	0.55	0.01 (0.01)	0.01	0-0.02	0.54

**Table 24. Monthly density (birds/km<sup>2</sup>) of razorbill (including unidentified auks apportioned using identified auk ratios and accounting for availability bias) recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (0.02)	0.05	0-0.09	Inf	0 (0.02)	0.04	0.01-0.08	Inf	0 (0.01)	0.03	0.01-0.06	Inf
Mar	0 (0.03)	0.06	0.01-0.12	Inf	0 (0.03)	0.07	0.02-0.14	Inf	0 (0.03)	0.08	0.03-0.15	Inf
Apr	0 (0.01)	0.04	0.01-0.06	Inf	0 (0.02)	0.06	0.03-0.09	Inf	0 (0.02)	0.07	0.04-0.1	Inf
May	0 (0)	0.01	0-0.02	Inf	0 (0)	0.00	0-0.01	Inf	0 (0.01)	0.01	0-0.03	Inf
Jun	0 (0.01)	0.02	0.01-0.05	Inf	0 (0.01)	0.02	0-0.03	Inf	0 (0.02)	0.04	0.01-0.07	Inf
Jul	0 (0.03)	0.05	0-0.12	Inf	0 (0.03)	0.05	0.01-0.11	Inf	0 (0.02)	0.06	0.02-0.11	Inf
Aug	0 (0.03)	0.06	0.01-0.13	Inf	0 (0.03)	0.05	0.01-0.12	Inf	0 (0.02)	0.05	0.01-0.1	Inf
Sep	0 (0.05)	0.10	0.02-0.21	Inf	0 (0.06)	0.13	0.04-0.25	Inf	0 (0.06)	0.15	0.05-0.28	Inf
Oct	0 (0.01)	0.01	0-0.03	Inf	0 (0.01)	0.01	0-0.02	Inf	0 (0.01)	0.01	0-0.04	Inf
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0.01	Inf	0 (0)	0.00	0-0.01	Inf
Dec	0 (0.01)	0.01	0-0.03	Inf	0 (0.01)	0.01	0-0.03	Inf	0 (0.01)	0.01	0-0.02	Inf

### 1.19 Red-throated Diver

**Table 25. Monthly density (birds/km<sup>2</sup>) of red-throated diver recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
May	0 (0)	0.00	0-0		0 (0.01)	0	0-0.02	1.55	0 (0.01)	0	0-0.01	1.55
Jun	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Oct	0.01 (0.01)	0.01	0-0.04	1.62	0 (0.01)	0	0-0.03	1.64	0 (0.01)	0	0-0.02	1.68
Nov	0 (0)	0.00	0-0		0 (0.01)	0	0-0.03	1.61	0 (0.01)	0	0-0.02	1.59
Dec	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	

### 1.20 Shag

**Table 26. Monthly density (birds/km<sup>2</sup>) of shag recorded on the sea, S.D., mean of bootstraps, coefficient of variation (CV) and 95% confidence intervals, in the OAA, OAA plus 2 km buffer and OAA plus 4 km buffer.**

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
Jan	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0.02	2.23
Mar	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Apr	0.01 (0.01)	0.01	0-0.04	1.69	0 (0.01)	0	0-0.03	1.66	0 (0.01)	0	0-0.02	1.63

Month	Density											
	OAA				OAA plus 2 km buffer				OAA plus 4 km buffer			
	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV	Estimate (S.D.)	Mean (bs)	95% c.i.	CV
May	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Nov	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0	0-0	