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Document Number  
WO1-WOW-PER-ENV-RPT-0025

Revision 01

Approved

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Limited

Oct 2, 2024, 4:49 PM GMT+1:00

# West of Orkney Windfarm

## Offshore Ornithology Supplementary Environmental Information

### Annex 1I: Design-based analysis mean abundance estimates from each calendar month of flying birds

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## Document Quality Record

Version	Status	Person Responsible	Date
0.1	Draft	Dr. S. Raveh	09/05/2024
0.2	Reviewed	Dr. Ross McGregor	18/06/2024
0.3	Updated	Dr. Ross McGregor	19/06/2024
1	Internal Approval	Dr. Ross McGregor	19/06/2024

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## 1.1 Arctic Skua

**Table 1. Monthly abundance of Arctic skua recorded in flight, 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	Abundance											
	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	
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	3.87 (6.56)	3.84	0-23.23	1.7	3.87 (6.59)	3.97	0-23.23	1.70	3.87 (6.67)	4.01	0-23.23	1.72
Jul	0 (0)	0.00	0-0		2.64 (5.57)	2.54	0-15.86	2.11	2.64 (5.7)	2.65	0-15.86	2.15
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	

## 1.2 Arctic Tern

**Table 2. Monthly abundance of Arctic tern recorded in flight, 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	Abundance											
	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	
May	3.88 (6.37)	3.87	0-23.29	1.64	3.88 (6.47)	3.92	0-23.29	1.67	3.88 (6.51)	3.80	0-23.29	1.68
Jun	50.39 (82.31)	51.29	0-302.31	1.63	50.39 (83.41)	51.64	0-302.31	1.66	50.39 (81.01)	50.54	0-302.31	1.61
Jul	5.29 (9.72)	5.36	0-31.73	1.84	15.86 (28.48)	15.66	0-95.18	1.80	15.86 (29.02)	16.11	0-95.18	1.83
Aug	2.6 (5.65)	2.63	0-23.41	2.17	10.34 (15.04)	10.52	0-46.46	1.45	12.95 (15.45)	13.05	0-46.46	1.19
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 abundance of auk sp. recorded in flight, 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	Abundance											
	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	15.47 (19.65)	15.12	0-61.89	1.27	19.35 (17.51)	19.18	0-61.89	0.90	19.35 (17.61)	19.47	0-61.89	0.91
May	0 (0)	0.00	0-0		3.88 (6.53)	3.93	0-23.29	1.68	7.76 (10.47)	7.97	0-31.06	1.35
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.87 (6.2)	3.82	0-23.23	1.60
Jul	2.67 (5.4)	2.62	0-16.04	2.02	5.32 (6.96)	5.21	0-23.79	1.31	13.25 (19.63)	13.18	0-63.45	1.48
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		2.58 (5.12)	2.61	0-15.49	1.98
Sep	2.58 (5.21)	2.45	0-15.5	2.02	2.58 (5.49)	2.61	0-15.5	2.13	2.58 (5.66)	2.63	0-15.5	2.19
Oct	3.88 (6.28)	3.72	0-23.26	1.62	3.88 (6.76)	4.02	0-23.26	1.74	3.88 (6.6)	3.93	0-23.26	1.70
Nov	3.87 (6.29)	3.85	0-23.22	1.63	7.74 (10.56)	7.78	0-30.96	1.36	7.74 (10.36)	7.57	0-30.96	1.34
Dec	3.87 (6.69)	3.97	0-23.25	1.73	3.87 (6.28)	3.91	0-23.25	1.62	3.87 (6.42)	3.89	0-23.25	1.66



## 1.4 Black-headed Gull

**Table 4. Monthly abundance of black-headed gull recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Apr	3.87 (6.28)	3.72	0-23.21	1.62	3.87 (6.31)	3.9	0-23.21	1.63	3.87 (6.3)	3.88	0-23.21	1.63
May	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	

## 1.5 Black Guillemot

**Table 5. Monthly abundance of black guillemot recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Oct	3.88 (6.11)	3.73	0-23.26	1.57	3.88 (6.39)	3.8	0-23.26	1.65	3.88 (6.53)	3.98	0-23.26	1.69
Nov	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	

## 1.6 Common Gull

**Table 6. Monthly abundance of common gull recorded in flight, 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	Abundance											
	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		3.88 (6.51)	3.94	0-23.27	1.68	3.88 (6.21)	3.75	0-23.27	1.6
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)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
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	

## 1.7 Common Tern

**Table 7. Monthly abundance of common tern recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0	0-0		2.65 (5.42)	2.7	0-15.92	2.04	5.31 (9)	5.33	0-31.85	1.7
Sep	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	

## 1.8 Cory's Shearwater

**Table 8. Monthly abundance of Cory's shearwater recorded in flight, 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	Abundance											
	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	
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	2.58 (5.74)	2.62	0-23.23	2.22	2.58 (5.43)	2.46	0-15.49	2.1	2.58 (5.58)	2.59	0-15.49	2.16
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 European Storm-petrel

**Table 9. Monthly abundance of European storm-petrel recorded in flight, 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	Abundance											
	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	
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	67.11 (101.71)	65.49	0-302	1.52	74.85 (115.77)	75.47	0-340.72	1.55	95.58 (137.24)	94.84	0-394.92	1.44
Sep	10.33 (16.88)	10.31	0-54.24	1.63	12.91 (20.25)	12.80	0-61.98	1.57	41.32 (57.4)	41.60	0-170.44	1.39
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	

## 1.10 Fulmar

Table 10. Monthly abundance of fulmar recorded in flight, 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	Abundance											
	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	681.83 (86.58)	681.92	526.68-860.23	0.13	1053.74 (109.27)	1,054.00	852.1-1278.44	0.10	1503.13 (112.12)	1,504.23	1293.93-	0.07
Feb	539.76 (334.15)	543.60	61.96-1053.48	0.62	818.66 (494.31)	824.27	131.67-1673.17	0.60	1159.56 (657.67)	1,159.75	216.86-2153.43	0.57
Mar	1003.83 (362.95)	1,006.60	418.05-1574.24	0.36	1341.05 (501.53)	1,345.31	580.9-2093.81	0.37	1693.75 (615.08)	1,699.03	782.27-2551.35	0.36
Apr	251.54 (174.71)	254.17	54.29-533.8	0.69	321.22 (195.84)	320.48	93.07-626.64	0.61	418.03 (217.09)	420.92	155.12-750.42	0.52
May	73.72 (34.26)	73.82	15.5-147.51	0.46	190.04 (49.86)	191.47	108.32-302.27	0.26	217.21 (49.69)	214.56	108.51-317.77	0.23
Jun	50.33 (54.12)	50.11	0-154.86	1.08	69.69 (73.51)	69.75	0-193.58	1.05	77.43 (81.4)	77.69	0-216.81	1.05
Jul	171.27 (60.07)	170.60	80.2-309.33	0.35	232.29 (67.76)	232.32	116.28-364.85	0.29	321.87 (67.38)	322.63	209.3-460.02	0.21
Aug	311.21 (91.36)	311.85	170.28-549.36	0.29	389.37 (85.58)	388.12	230.89-597.13	0.22	498.85 (94.04)	496.80	302.54-692.67	0.19
Sep	325.01 (99.62)	321.02	170.46-542.31	0.31	491.08 (203.13)	487.89	240.19-1007.14	0.41	607.92 (220.8)	611.36	348.66-1162.09	0.36
Oct	523.4 (301.24)	529.54	155.08-1419.18	0.58	693.98 (274.33)	691.16	279.15-1310.63	0.40	1015.77 (337.67)	1,021.05	558.09-	0.33
Nov	414.6 (142.64)	415.84	232.21-729.18	0.34	577.3 (144.38)	578.30	379.98-915.1	0.25	1487.28 (516.02)	1,490.33	713.47-2709.32	0.35
Dec	1197.28 (317.23)	1,200.05	658.68-	0.26	1987.69 (901.53)	1,986.48	906.71-4223.27	0.45	2491.39 (1207.44)	2,473.53	999.51-5106.86	0.48

## 1.11 Gannet

**Table 11. Monthly abundance of gannet recorded in flight, 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	Abundance											
	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	7.75 (7.11)	7.51	0-23.24	0.92	7.75 (7.23)	7.66	0-23.24	0.93	7.75 (7.69)	8.28	0-23.24	0.99
Feb	43.89 (26.93)	44.27	0-92.95	0.61	54.22 (28.95)	54.75	0-108.45	0.53	80.05 (27.48)	80.56	30.98-139.41	0.34
Mar	85.29 (67.79)	85.65	7.75-209.38	0.79	127.92 (80.6)	128.07	23.24-271.42	0.63	158.93 (88.54)	159.42	38.73-310.39	0.56
Apr	197.51 (48.74)	198.71	108.58-294.73	0.25	274.97 (53.45)	276.68	178.39-380.21	0.19	336.94 (58.35)	337.46	232.68-456.44	0.17
May	155.06 (107.58)	155.58	31.06-372.22	0.69	197.72 (112.55)	197.71	54.35-434.03	0.57	317.96 (120.7)	320.14	124.22-565.78	0.38
Jun	139.46 (44.28)	138.50	61.94-232.55	0.32	166.6 (63.94)	166.35	61.94-286.81	0.38	185.97 (80.03)	184.87	61.94-325.57	0.43
Jul	200.26 (60.05)	199.62	96.25-328.84	0.30	263.41 (61.5)	263.97	155.04-401.02	0.23	388.14 (144.09)	387.17	222.08-786.01	0.37
Aug	226.97 (159.76)	227.16	15.61-511.08	0.70	310.05 (207.24)	308.31	31.21-704.67	0.67	540.83 (452.02)	538.61	93.64-1626.35	0.84
Sep	404.13 (181.28)	401.36	134.38-751.48	0.45	557.29 (204.62)	552.14	229.24-937.42	0.37	765.41 (195.54)	768.46	418.95-1100.23	0.26
Oct	379.95 (73.8)	379.01	240.37-527.27	0.19	453.61 (98.73)	451.53	263.63-635.83	0.22	527.27 (107.53)	529.47	333.23-728.87	0.20
Nov	7.75 (7.31)	7.96	0-23.27	0.94	23.24 (14.57)	23.22	0-54.29	0.63	30.99 (15.54)	30.96	7.74-62.04	0.50
Dec	19.37 (15.98)	19.76	0-54.24	0.83	23.25 (14.22)	23.81	0-54.24	0.61	27.12 (13.41)	27.46	7.75-54.25	0.49



## 1.12 Great Black-backed Gull

**Table 12. Monthly abundance of great black-backed gull recorded in flight, 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	Abundance											
	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	23.24 (15.01)	22.48	0-54.24	0.65	23.24 (15.68)	22.73	0-61.98	0.67	23.24 (15.29)	24.29	0-54.24	0.66
Feb	23.24 (20.49)	22.95	0-69.72	0.88	28.4 (27.83)	28.66	0-92.95	0.98	56.81 (32.49)	55.99	7.75-123.94	0.57
Mar	3.88 (6.25)	3.81	0-23.26	1.61	7.75 (10.39)	7.71	0-31.02	1.34	15.5 (11.88)	15.38	0-46.53	0.77
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	7.75 (12.43)	7.63	0-46.51	1.60	7.75 (13.16)	8.19	0-46.51	1.70	7.75 (13.43)	7.91	0-46.51	1.73
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	3.88 (6.36)	3.87	0-23.26	1.64	3.88 (6.55)	3.90	0-23.26	1.69	11.63 (15.94)	11.58	0-54.28	1.37
Nov	38.76 (28.42)	38.83	0-100.82	0.73	65.87 (24.41)	65.49	23.22-116.33	0.37	73.61 (23.48)	73.90	30.96-124.08	0.32
Dec	58.12 (55.49)	58.09	0-162.74	0.95	85.25 (75.31)	85.63	0-216.99	0.88	112.37 (79.13)	112.43	7.75-247.99	0.70

### 1.13 Great Northern Diver

**Table 13. Monthly abundance of great northern diver recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Oct	3.88 (6.3)	3.86	0-23.26	1.63	3.88 (6.36)	4	0-23.26	1.64	3.88 (6.33)	3.92	0-23.26	1.63
Nov	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	

## 1.14 Great Shearwater

**Table 14. Monthly abundance of great shearwater recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0	0-0		0 (0)	0	0-0		2.63 (5.39)	2.58	0-15.81	2.05
Oct	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	

## 1.15 Great Skua

Table 15. Monthly abundance of great skua recorded in flight, 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	Abundance											
	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	19.39 (22.61)	19.53	0-69.8	1.17	19.39 (22.29)	19.06	0-62.05	1.15	19.39 (21.94)	18.98	0-62.05	1.13
May	0 (0)	0.00	0-0		3.88 (6.28)	3.87	0-23.25	1.62	3.88 (6.14)	3.82	0-15.5	1.59
Jun	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.87 (6.18)	3.88	0-15.68	1.60
Jul	5.26 (6.78)	5.13	0-23.26	1.29	18.33 (13.97)	18.36	0-46.51	0.76	20.97 (13.03)	20.71	0-54.26	0.62
Aug	23.83 (34.27)	23.87	0-111.46	1.44	23.83 (35)	23.89	0-119.43	1.47	23.83 (34.33)	23.46	0-111.46	1.44
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		2.63 (5.14)	2.70	0-15.81	1.95
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	

## 1.16 Guillemot

Table 16. Monthly abundance of guillemot recorded in flight, 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	Abundance											
	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	69.73 (33.54)	69.93	15.5-147.21	0.48	69.73 (32.15)	68.93	15.5-139.47	0.46	85.23 (34.89)	88.37	23.24-162.71	0.41
Feb	49.05 (68.32)	49.01	0-201.37	1.39	61.96 (87.01)	62.59	0-247.84	1.40	108.43 (152.78)	108.98	0-410.49	1.41
Mar	77.45 (82.63)	77.02	0-224.61	1.07	100.69 (107.03)	101.30	0-286.58	1.06	116.18 (121.5)	115.69	0-317.75	1.05
Apr	46.46 (25.82)	45.23	7.76-108.31	0.56	96.79 (40.7)	94.71	31.02-185.67	0.42	135.5 (58.58)	134.70	46.54-263.03	0.43
May	209.6 (193.92)	208.69	0-527.94	0.93	271.71 (255.01)	271.53	0-652.36	0.94	357.11 (335.8)	358.64	7.75-861.79	0.94
Jun	69.71 (35.07)	70.29	7.75-139.37	0.50	120.06 (58.59)	120.18	31.01-247.78	0.49	158.78 (84.96)	158.14	38.76-325.21	0.54
Jul	133.55 (85.17)	132.64	8.02-302.49	0.64	188.26 (118.55)	188.95	16.04-410.84	0.63	248.55 (137.26)	248.91	48.12-511.62	0.55
Aug	5.31 (9.54)	5.15	0-31.85	1.80	7.96 (13.55)	7.95	0-39.81	1.70	13.27 (21.54)	13.50	0-63.69	1.62
Sep	23.4 (13.45)	23.20	0-54.23	0.57	38.89 (24.46)	39.14	7.75-100.71	0.63	44.06 (30.57)	44.09	7.75-116.21	0.69
Oct	162.83 (134.24)	158.60	23.26-457.49	0.82	314.04 (240.98)	312.92	46.52-837.63	0.77	496.26 (396.13)	491.25	69.79-1263.91	0.80
Nov	30.98 (15.26)	30.57	7.74-61.92	0.49	38.73 (17.71)	38.60	7.76-77.4	0.46	65.83 (33.94)	66.01	15.51-131.59	0.52
Dec	27.12 (25.43)	27.34	0-85.24	0.94	42.62 (39.3)	42.76	0-116.24	0.92	50.37 (39.94)	49.69	0-131.74	0.79

Table 17. Monthly abundance of guillemot (including unidentified auks apportioned using identified auk ratios) recorded in flight, 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	Abundance											
	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	77.48 (37.26)	77.70	17.22-163.57	0.48	77.48 (35.72)	76.59	17.22-154.96	0.46	108.47 (44.41)	112.47	29.58-207.09	0.41
Feb	59.38 (18.7)	59.35	28.4-99.25	0.31	72.29 (20.34)	73.00	39.4-116.85	0.28	118.76 (24.4)	119.36	73.67-169.26	0.21
Mar	77.45 (21.12)	77.02	38.73-124.02	0.27	100.69 (24.37)	101.30	58.09-151.03	0.24	116.18 (26.19)	115.69	69.61-174.27	0.23
Apr	58.08 (25.31)	56.53	14.52-107.46	0.44	116.17 (35.78)	113.58	55.18-190.88	0.31	154.88 (45.19)	154.04	75.42-243.65	0.29
May	213.49 (47.9)	212.55	126.66-308.15	0.22	279.48 (51.89)	279.28	183.9-382.93	0.19	364.87 (61.68)	366.43	246.15-491.54	0.17

Month	Abundance											
	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	69.71 (26.04)	70.29	23.23-120.07	0.37	120.06 (38.27)	120.18	50.34-201.4	0.32	162.65 (43.54)	161.99	83.51-253.67	0.27
Jul	136.22 (52.07)	135.29	47.05-252.15	0.38	193.57 (55.87)	194.31	95.87-311.12	0.29	256.52 (61.61)	256.84	145.29-384.21	0.24
Aug	5.31 (3.55)	5.15	0-13.27	0.67	7.96 (4.37)	7.95	0-18.58	0.55	13.27 (5.76)	13.50	2.65-23.89	0.43
Sep	31.2 (17.27)	30.98	0-65.05	0.55	46.7 (20.37)	46.95	9.04-88.23	0.44	54.49 (22.43)	54.41	14.2-101.24	0.41
Oct	178.34 (65.85)	173.76	63.65-310.16	0.37	329.55 (115.49)	328.40	130.14-582.02	0.35	515.64 (143.15)	510.46	261.71-821.99	0.28
Nov	34.85 (14.83)	34.35	9.29-65.16	0.43	46.47 (18.68)	46.33	14.2-87.78	0.40	73.57 (22.14)	73.76	30.97-116.38	0.30
Dec	38.75 (23.34)	38.93	4.52-89.12	0.60	54.24 (23.22)	53.96	21.31-103.07	0.43	61.99 (24.51)	61.15	21.13-114.83	0.40

## 1.17 Herring Gull

Table 18. Monthly abundance of herring gull recorded in flight, 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	Abundance											
	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	7.75 (7.24)	7.73	0-23.24	0.93	7.75 (7.27)	7.68	0-23.24	0.94	15.5 (9.95)	15.78	0-38.74	0.64
Feb	5.16 (9.49)	5.27	0-30.98	1.84	5.16 (9.29)	5.15	0-30.98	1.80	7.75 (9.45)	7.55	0-30.98	1.22
Mar	0 (0)	0.00	0-0		3.87 (6.52)	3.95	0-23.24	1.68	3.87 (6.37)	3.82	0-23.24	1.64
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)	0.00	0-0		0 (0)	0.00	0-0	
Nov	7.76 (10.94)	8.02	0-31.02	1.41	7.76 (10.52)	7.68	0-31.02	1.36	11.63 (14.66)	11.31	0-46.53	1.26
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

## 1.18 Kittiwake

Table 19. Monthly abundance of kittiwake recorded in flight, 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	Abundance											
	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	46.49 (17.64)	46.12	15.5-85.23	0.38	85.23 (23.7)	84.98	38.74-131.91	0.28	92.98 (24.39)	94.20	54.24-147.21	0.26
Feb	152.34 (101.71)	152.91	31-364.07	0.67	191.08 (119.73)	189.74	54.25-433.79	0.63	240.14 (150.29)	240.04	77.5-542.23	0.63
Mar	565.84 (193.04)	570.67	286.58-984.87	0.34	759.58 (175.85)	758.84	480.21-1155.48	0.23	1015.41 (273.46)	1,011.02	619.62-1527.9	0.27
Apr	186.03 (102.43)	185.02	46.42-372.48	0.55	306.19 (178.75)	307.03	85.1-604.97	0.58	403.06 (214.63)	404.27	131.52-760.09	0.53
May	50.43 (32.6)	50.97	0-116.26	0.65	77.58 (43.97)	76.71	0-170.52	0.57	100.86 (50.82)	101.60	7.75-194.1	0.50
Jun	27.12 (13.44)	26.82	0-54.26	0.50	27.12 (13.32)	26.94	7.55-54.26	0.49	34.87 (15.29)	35.00	7.74-69.76	0.44
Jul	332.97 (412.3)	334.92	24.06-1419.92	1.24	449.26 (514.55)	448.07	54.26-1736.98	1.15	502.05 (542.29)	501.06	80.2-1848.02	1.08
Aug	47.72 (67.11)	48.69	0-191.08	1.41	66.24 (86.62)	66.41	0-246.81	1.31	84.77 (107.41)	84.77	0-294.58	1.27
Sep	56.87 (77.45)	57.66	0-232.44	1.36	59.51 (77.25)	61.45	0-232.64	1.30	67.41 (70.16)	66.89	0-232.44	1.04
Oct	414.84 (115.2)	415.74	224.86-643.58	0.28	581.55 (91.11)	579.39	410.96-767.65	0.16	837.43 (119.06)	838.27	627.88-1085.55	0.14
Nov	131.76 (59.34)	131.15	38.7-255.92	0.45	162.75 (66.25)	163.13	61.92-294.69	0.41	170.49 (60.05)	170.22	77.4-294.69	0.35
Dec	31 (13.66)	31.23	7.75-61.99	0.44	50.37 (23.59)	49.92	15.5-100.74	0.47	65.87 (26.24)	66.54	23.25-123.99	0.40



## 1.19 Large Auk sp.

Table 20. Monthly abundance of large auk sp. recorded in flight, 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	Abundance											
	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	7.75 (7.37)	7.90	0-23.24	0.95	7.75 (7.11)	7.49	0-23.24	0.92	23.24 (15.79)	23.16	0-54.24	0.68
Feb	10.33 (16.36)	10.26	0-46.47	1.58	10.33 (16.6)	10.37	0-54.22	1.61	10.33 (16.41)	10.34	0-46.47	1.59
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	7.76 (12.35)	7.64	0-46.54	1.59	11.63 (16.15)	12.03	0-54.29	1.39	11.63 (15.64)	11.36	0-46.54	1.34
May	3.88 (6.26)	3.79	0-23.29	1.61	3.88 (6.61)	3.98	0-23.29	1.70	3.88 (6.32)	3.82	0-23.29	1.63
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	5.22 (7.06)	5.31	0-23.24	1.35	5.22 (6.89)	5.24	0-23.24	1.32	7.85 (9.64)	7.78	0-31.62	1.23
Oct	11.63 (12.36)	12.03	0-46.52	1.06	11.63 (11.98)	11.44	0-46.52	1.03	15.51 (15.23)	15.89	0-54.28	0.98
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Dec	7.75 (10.5)	7.77	0-31	1.35	7.75 (10.53)	7.94	0-31	1.36	7.75 (10.53)	7.73	0-31	1.36

## 1.20 Little Auk

Table 21. Monthly abundance of little auk recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0	0-0		0 (0)	0	0-0		2.58 (5.47)	2.61	0-15.5	2.12
Mar	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Sep	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Oct	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0	0-0		0 (0)	0	0-0		0 (0)	0.00	0-0	

## 1.21 Little Gull

Table 22. Monthly abundance of little gull recorded in flight, 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	Abundance											
	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)	0.00	0-0	
Feb	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Mar	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Apr	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
May	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jun	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Jul	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Aug	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Sep	2.58 (5.89)	2.73	0-23.24	2.28	2.58 (5.53)	2.5	0-15.49	2.14	2.58 (5.54)	2.55	0-15.49	2.15
Oct	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Nov	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	
Dec	0 (0)	0.00	0-0		0 (0)	0.0	0-0		0 (0)	0.00	0-0	

## 1.22 Manx Shearwater

Table 23. Monthly abundance of Manx shearwater recorded in flight, 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	Abundance											
	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	
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	3.88 (6.45)	3.92	0-23.25	1.66	7.75 (10.37)	7.66	0-31.01	1.34	7.75 (10.88)	8.08	0-31.01	1.40
Jul	2.64 (5.72)	2.70	0-15.86	2.16	2.64 (5.69)	2.66	0-15.86	2.15	5.29 (9.22)	5.12	0-31.73	1.74
Aug	0 (0)	0.00	0-0		0 (0)	0.00	0-0		2.58 (5.04)	2.61	0-15.49	1.95
Sep	2.63 (5.81)	2.68	0-15.81	2.21	2.63 (5.68)	2.60	0-15.81	2.16	7.85 (9.59)	7.84	0-31.62	1.22
Oct	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.88 (6.26)	3.89	0-23.26	1.61
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	

### 1.23 Puffin

**Table 24. Monthly abundance of puffin recorded in flight, 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	Abundance											
	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	154.75 (150.36)	154.81	0-433.23	0.97	174.09 (167.07)	171.21	0-471.91	0.96	177.95 (172.43)	178.20	0-479.65	0.97
May	143.63 (148.73)	143.25	0-380.43	1.04	229.03 (236.72)	228.14	0-613.34	1.03	376.55 (399.35)	382.16	0-1048.12	1.06
Jun	131.76 (115.67)	131.00	0-333.32	0.88	236.38 (170.38)	238.76	30.97-511.8	0.72	348.74 (216.89)	351.87	61.94-728.65	0.62
Jul	60.03 (50.55)	60.35	0-155.04	0.84	89.11 (61.9)	88.04	0-201.66	0.69	191.14 (157.68)	196.58	0-507.61	0.82
Aug	13.06 (18.15)	13.13	0-62.43	1.39	31.64 (34.86)	31.41	0-119.43	1.10	71.44 (91.99)	72.13	0-286.82	1.29
Sep	5.22 (6.95)	5.22	0-23.71	1.33	5.22 (7.01)	5.24	0-23.71	1.34	7.85 (9.77)	7.75	0-31.62	1.24
Oct	3.88 (6.45)	3.89	0-23.26	1.66	3.88 (6.36)	3.82	0-23.26	1.64	3.88 (6.44)	3.86	0-23.26	1.66
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	

**Table 25. Monthly abundance of puffin (including unidentified auks apportioned using identified auk ratios) recorded in flight, 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	Abundance											
	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	166.35 (48.13)	166.41	83.37-269.8	0.29	185.69 (50.1)	182.61	90.93-288.36	0.27	189.56 (48.59)	189.81	107.43-287.96	0.26
May	143.63 (28.21)	143.25	89.28-198.07	0.20	229.03 (44.51)	228.14	147.51-318.32	0.19	380.43 (82.59)	386.10	243.16-564.76	0.22
Jun	131.76 (35.74)	131.00	65.89-205.38	0.27	236.38 (53.16)	238.76	131.77-344.86	0.22	348.74 (80.47)	351.87	205.39-519.3	0.23

Month	Abundance											
	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
Jul	60.03 (20.22)	60.35	23.49-101.73	0.34	89.11 (28.94)	88.04	36.71-146.74	0.32	196.43 (77.53)	201.96	75.28-366.11	0.39
Aug	13.06 (9.06)	13.13	0-33.97	0.69	31.64 (18.45)	31.41	0-68.53	0.58	71.44 (30.4)	72.13	18.58-134.87	0.43
Sep	5.22 (4.8)	5.22	0-15.65	0.92	5.22 (4.86)	5.24	0-15.65	0.93	7.85 (5.81)	7.75	0-20.92	0.74
Oct	3.88 (3.64)	3.89	0-11.63	0.94	3.88 (3.59)	3.82	0-11.63	0.93	3.88 (3.64)	3.86	0-11.63	0.94
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	

## 1.24 Razorbill

Table 26. Monthly abundance of razorbill recorded in flight, 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	Abundance											
	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		2.58 (5.57)	2.70	0-15.49	2.16	2.58 (5.39)	2.54	0-15.49	2.09
Mar	0 (0)	0.00	0-0		3.87 (6.62)	3.98	0-23.24	1.71	7.75 (6.3)	7.57	0-23.24	0.81
Apr	3.88 (6.43)	3.97	0-23.27	1.66	3.88 (6.34)	3.92	0-23.27	1.64	3.88 (6.54)	4.02	0-23.27	1.69
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Jun	3.88 (6.26)	3.77	0-23.25	1.62	3.88 (6.6)	3.90	0-23.25	1.70	3.88 (6.37)	3.85	0-23.25	1.64
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	2.58 (5.2)	2.43	0-15.49	2.01	2.58 (5.51)	2.60	0-15.49	2.13	2.58 (5.38)	2.52	0-15.49	2.08
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		3.88 (6.33)	3.86	0-23.26	1.63	3.88 (6.48)	3.96	0-23.26	1.67
Nov	3.87 (6.46)	3.88	0-23.22	1.67	3.87 (6.37)	3.96	0-23.22	1.65	3.87 (6.37)	3.82	0-23.22	1.64
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

Table 27. Monthly abundance of razorbill (including unidentified auks apportioned using identified auk ratios) recorded in flight, 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	Abundance											
	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		2.58 (2.34)	2.70	0-7.75	0.91	2.58 (2.32)	2.54	0-7.75	0.90
Mar	0 (0)	0.00	0-0		3.87 (3.74)	3.98	0-11.62	0.97	7.75 (6.25)	7.57	0-19.37	0.81
Apr	3.88 (3.58)	3.97	0-11.63	0.92	3.88 (3.53)	3.92	0-11.63	0.91	3.88 (3.65)	4.02	0-11.63	0.94
May	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

Month	Abundance											
	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	3.88 (3.54)	3.77	0-11.63	0.91	3.88 (3.77)	3.90	0-11.63	0.97	3.88 (3.59)	3.85	0-11.63	0.93
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	2.58 (2.25)	2.43	0-7.74	0.87	2.58 (2.37)	2.60	0-7.74	0.92	5.16 (4.66)	5.04	0-15.49	0.90
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		3.88 (3.55)	3.86	0-11.63	0.92	3.88 (3.63)	3.96	0-11.63	0.94
Nov	3.87 (3.65)	3.88	0-11.61	0.94	3.87 (3.53)	3.96	0-11.61	0.91	3.87 (3.6)	3.82	0-11.61	0.93
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	



## 1.25 Shag

Table 28. Monthly abundance of shag recorded in flight, 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	Abundance											
	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		3.88 (6.48)	3.97	0-23.27	1.67	7.76 (10.55)	7.82	0-31.02	1.36
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)	0	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
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	

## 1.26 Sooty Shearwater

Table 29. Monthly abundance of sooty shearwater recorded in flight, 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	Abundance											
	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	
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	2.58 (5.58)	2.63	0-15.49	2.16	5.16 (9.53)	5.19	0-30.97	1.85	5.16 (9.56)	5.19	0-30.97	1.85
Sep	0 (0)	0.00	0-0		2.58 (5.31)	2.56	0-15.5	2.05	2.58 (5.36)	2.62	0-15.5	2.08
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	