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West of Orkney Windfarm

Offshore Ornithology Supplementary Environmental Information

Annex 1J: Design-based analysis mean abundance estimates from each calendar month of sitting birds

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1.1 Arctic Skua

Table 1. Monthly abundance 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	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	2.64 (5.73)	2.69	0-15.86	2.17	7.93 (13.98)	7.85	0-47.59	1.76	7.93 (13.92)	7.79	0-47.59	1.76
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 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	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	38.76 (65.61)	38.56	0-232.55	1.69	38.76 (64.82)	39.42	0-232.55	1.67	38.76 (63.98)	39.18	0-232.55	1.65
Jul	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Aug	20.81 (46.27)	21.79	0-187.28	2.22	20.81 (47.74)	21.95	0-187.28	2.29	23.41 (47.59)	23.26	0-148.26	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 abundance 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	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 (27.42)	76.65	30.99-139.47	0.35	123.97 (32.53)	124.34	61.98-185.95	0.26	123.97 (32.97)	124.62	69.73-193.7	0.27
Feb	12.91 (10.05)	12.89	0-31.19	0.78	12.91 (9.79)	12.74	0-31	0.76	18.07 (14.65)	18.34	0-54.22	0.81
Mar	15.49 (20.56)	15.77	0-61.96	1.33	23.24 (21.21)	23.20	0-77.45	0.91	27.11 (25.27)	27.09	0-85.2	0.93
Apr	116.3 (91.72)	116.46	7.74-279.22	0.79	151.19 (118.53)	152.32	15.47-349.02	0.78	209.36 (176.48)	210.24	15.47-473.12	0.84
May	27.17 (25.99)	27.78	0-85.4	0.96	46.58 (45.71)	47.96	0-147.51	0.98	77.63 (67.59)	77.74	0-201.86	0.87
Jun	38.72 (37.89)	39.18	0-123.89	0.98	50.33 (49.14)	50.93	0-147.12	0.98	81.31 (71.94)	82.25	0-216.81	0.88
Jul	172.65 (123.48)	172.99	0-368.94	0.72	244.27 (155.84)	246.23	23.26-489.31	0.64	337.39 (221.93)	337.25	23.26-713.82	0.66
Aug	80.53 (63.57)	79.05	7.8-224.56	0.79	122.29 (87.45)	122.58	15.61-302	0.72	156.45 (96.54)	156.67	23.41-332.98	0.62
Sep	80.79 (48.86)	80.12	7.75-170.46	0.60	109.52 (63.74)	108.75	15.49-221.33	0.58	132.86 (75.75)	131.74	15.49-263.43	0.57
Oct	38.77 (22.45)	38.83	7.56-85.29	0.58	69.79 (22.65)	69.37	31.02-116.31	0.32	81.42 (24.45)	81.79	38.77-131.82	0.30
Nov	50.35 (23.32)	49.36	7.76-100.62	0.46	69.72 (24.61)	70.80	30.77-123.85	0.35	73.6 (23.87)	73.38	30.96-123.85	0.32
Dec	27.12 (31.25)	27.24	0-93	1.15	38.75 (42.42)	38.70	0-116.24	1.09	42.62 (46.27)	42.76	0-124.19	1.09

1.4 Black Guillemot

Table 4. Monthly abundance 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	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	2.58 (5.48)	2.61	0-15.5	2.12	2.58 (5.66)	2.66	0-23.26	2.19	2.58 (5.36)	2.53	0-15.5	2.07
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	

1.5 Fulmar

Table 5. Monthly abundance 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	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	573.36 (211.93)	574.97	232.44-1007.45	0.37	867.79 (257.04)	872.30	395.15-1418.1	0.30	1293.93 (272.49)	1,283.59	790.31-1828.75	0.21
Feb	108.45 (72.83)	108.57	23.25-294.35	0.67	157.52 (73.4)	156.38	61.96-340.83	0.47	196.25 (94.52)	195.14	77.5-418.29	0.48
Mar	186.04 (85.74)	185.49	54.22-348.97	0.46	341.08 (152.83)	341.48	100.69-651.41	0.45	410.84 (166.04)	409.95	154.91-736.71	0.40
Apr	120.18 (166.32)	122.67	0-612.73	1.38	127.93 (165.06)	128.96	7.74-620.48	1.29	151.18 (166.36)	145.82	15.51-628.24	1.10
May	11.65 (14.84)	12.14	0-46.58	1.27	38.79 (19.73)	38.86	7.75-77.64	0.51	50.43 (24.86)	49.99	7.75-100.93	0.49
Jun	11.61 (14.54)	11.49	0-46.46	1.25	15.49 (18.35)	15.42	0-54.2	1.18	27.1 (29.9)	27.02	0-85.17	1.10
Jul	170.27 (145.84)	169.20	7.75-489.25	0.86	252.91 (231.92)	253.35	15.5-722.04	0.92	436.76 (425.51)	431.98	46.51-1267.43	0.97
Aug	619.69 (593.17)	612.94	7.8-2173.54	0.96	715.64 (614.55)	716.80	31.21-2181.7	0.86	858.64 (654.32)	864.30	70.23-2309.09	0.76
Sep	1241.28 (1116.84)	1,251.85	263.43-4362.29	0.90	1426.74 (1144.26)	1,430.59	340.92-4594.13	0.80	1596.7 (1080.64)	1,572.08	464.88-4524.6	0.68
Oct	771.52 (379.91)	775.29	139.57-1698.13	0.49	1027.4 (403.05)	1,021.34	286.71-1860.97	0.39	1950.13 (1019.44)	1,920.32	410.77-4016.74	0.52
Nov	217.1 (249.53)	212.22	23.22-930.61	1.15	236.47 (256.31)	240.40	30.96-953.88	1.08	484.47 (347.98)	483.92	54.18-1272.03	0.72
Dec	437.84 (124.45)	442.63	232.47-720.72	0.28	786.56 (234.6)	788.06	418.48-1325.1	0.30	941.55 (249.89)	945.40	542.47-1503.52	0.27

1.6 Gannet

Table 6. Monthly abundance 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	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	15.5 (12.67)	15.47	0-46.49	0.82	23.24 (14.23)	23.84	0-54.24	0.61	23.24 (14.73)	23.28	0-54.24	0.63
Feb	5.16 (6.75)	5.18	0-23.24	1.31	5.16 (6.79)	5.26	0-23.24	1.31	10.33 (9.07)	10.34	0-30.98	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		7.75 (10.38)	7.97	0-30.98	1.34
Apr	247.66 (180.9)	248.19	31.02-549.28	0.73	328.96 (208.48)	330.06	77.56-665.32	0.63	402.52 (227.56)	402.74	116.34-765.89	0.57
May	96.96 (32.34)	95.42	38.75-170.51	0.33	178.39 (57.07)	178.65	93.01-317.77	0.32	228.84 (59.46)	230.08	124.01-356.54	0.26
Jun	123.89 (128.65)	124.84	0-371.67	1.04	170.36 (156.57)	168.84	7.75-449.1	0.92	220.7 (192.33)	220.85	15.5-542.01	0.87
Jul	113.89 (87.01)	114.82	8.02-304.78	0.76	137.41 (81.02)	136.94	16.04-312.8	0.59	265.11 (234)	270.61	56.14-930.37	0.88
Aug	624.69 (1064.86)	636.25	54.21-3702.58	1.70	648.07 (1035.58)	656.41	78.03-3463.33	1.60	687.31 (1041.64)	696.62	100.67-	1.52
Sep	269.58 (124.68)	270.41	94.86-534.56	0.46	344.99 (144.05)	342.93	166-650.77	0.42	518.66 (187.78)	518.08	237.14-891.22	0.36
Oct	558.29 (197.65)	562.36	255.88-914.98	0.35	717.25 (252.41)	718.03	341.17-1155.54	0.35	872.33 (296.33)	872.25	441.98-1380.22	0.34
Nov	3.87 (6.26)	3.88	0-23.22	1.62	11.61 (14.39)	11.42	0-46.44	1.24	15.48 (18.27)	15.35	0-54.18	1.18
Dec	11.62 (15.52)	11.55	0-46.49	1.33	19.37 (23.48)	19.71	0-69.74	1.21	19.37 (23.15)	19.50	0-69.74	1.19

1.7 Great Black-backed Gull

Table 7. Monthly abundance 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	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	38.74 (15.63)	39.05	7.75-69.73	0.40	38.74 (14.99)	38.91	15.5-69.73	0.39	61.98 (18.97)	61.17	23.24-100.73	0.31
Feb	49.06 (35.23)	49.49	7.75-131.68	0.72	87.79 (74.21)	86.26	7.75-263.33	0.85	113.62 (82.77)	115.68	23.25-340.98	0.73
Mar	7.75 (10.57)	7.92	0-30.98	1.36	15.5 (12.68)	15.57	0-46.47	0.82	19.37 (11.01)	19.32	0-38.97	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		3.88 (6.3)	3.97	0-23.26	1.62	3.88 (6.47)	3.95	0-23.26	1.67
Nov	77.45 (40.74)	77.01	15.51-162.55	0.53	96.8 (58.83)	97.11	15.51-208.99	0.61	108.41 (68.74)	108.34	15.51-232.21	0.63
Dec	81.37 (81.18)	81.37	0-240.24	1.00	135.62 (98.2)	136.58	15.5-317.73	0.72	162.74 (124.74)	163.24	15.5-379.73	0.77

1.8 Great Northern Diver

Table 8. Monthly abundance 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	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	7.76 (6.96)	7.78	0-23.29	0.9	7.76 (7.21)	8.09	0-23.29	0.93	7.76 (7.32)	7.93	0-23.29	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 abundance 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	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	7.75 (7.11)	7.60	0-23.27	0.92	11.62 (9.09)	11.45	0-31.02	0.78	19.38 (15.96)	19.34	0-54.29	0.82
May	3.88 (6.36)	3.86	0-23.25	1.64	7.76 (7.04)	7.96	0-23.29	0.91	15.51 (9.57)	15.44	0-38.75	0.62
Jun	15.49 (18.92)	15.77	0-54.2	1.22	15.49 (18.77)	15.68	0-54.2	1.21	19.36 (22.71)	19.58	0-69.69	1.17
Jul	2.67 (5.59)	2.64	0-16.04	2.09	2.67 (5.51)	2.63	0-16.04	2.06	5.32 (6.88)	5.28	0-23.79	1.29
Aug	89.96 (154.83)	88.85	0-533.43	1.72	89.96 (161.48)	94.03	0-533.43	1.79	89.96 (160.05)	93.07	0-533.43	1.78
Sep	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Oct	3.88 (6.35)	3.86	0-23.26	1.64	3.88 (6.25)	3.69	0-23.26	1.61	3.88 (6.26)	3.73	0-23.26	1.61
Nov	3.88 (6.06)	3.72	0-15.51	1.56	3.88 (6.48)	3.89	0-23.27	1.67	3.88 (6.32)	3.88	0-23.27	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 abundance 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	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	542.37 (94.84)	541.61	363.97-743.82	0.17	968.51 (125.48)	973.05	751.57-1224.39	0.13	1293.93 (151.44)	1,285.84	1007.06-	0.12
Feb	596.4 (658.92)	602.19	38.75-2075.68	1.10	756.49 (729.12)	758.04	108.5-2362.25	0.96	973.38 (836.41)	972.18	224.75-2648.82	0.86
Mar	701.03 (576.33)	697.20	69.79-1518.08	0.82	1038.02 (811.28)	1,037.98	162.85-2168.68	0.78	1553.13 (1244.75)	1,547.86	240.4-3384.69	0.80
Apr	2116.26 (1266.64)	2,108.26	680.79-	0.60	3011.73 (1851.77)	3,000.48	943.83-5577.16	0.61	4252.16 (2678.11)	4,237.03	1338.19-7702.12	0.63
May	422.99 (276.7)	423.56	77.5-900.61	0.65	636.39 (384.69)	635.04	147.26-1281.03	0.60	1241.73 (730.23)	1,221.93	302.27-2523.44	0.59
Jun	1034.01 (539.44)	1,029.60	325.57-2160.31	0.52	1208.3 (602.94)	1,203.29	441.84-2470.23	0.50	1502.7 (636.06)	1,521.70	689.89-	0.42
Jul	2190.14 (1547.67)	2,189.30	356.39-5123.7	0.71	3377.45	3,371.88	635.65-	0.71	4047.79	4,041.00	1038.74-	0.64
Aug	1386.03 (652.77)	1,383.16	437.89-	0.47	2221.3 (1032.17)	2,217.83	740.44-4104.53	0.46	3412.73 (1831.1)	3,421.89	1090.75-	0.54
Sep	2176.69 (365.12)	2,166.16	1391.23-2812.55	0.17	3089.71 (389.93)	3,101.75	2331.7-3857.51	0.13	4218.33 (466.42)	4,220.62	3401-5351.48	0.11
Oct	1593.44 (325.6)	1,591.47	1085.56-	0.20	2442.51 (598.38)	2,440.82	1612.84-	0.24	3070.58 (662.36)	3,072.74	2171.13-4288.13	0.22
Nov	379.45 (211.34)	377.92	124.08-743.08	0.56	542.16 (202.77)	539.76	263.67-890.14	0.37	731.9 (287.76)	729.97	348.98-1176.54	0.39
Dec	480.47 (225.28)	479.58	170.48-852.65	0.47	836.94 (328.85)	835.56	387.46-1356.18	0.39	1185.67 (432.8)	1,187.59	619.93-1836.66	0.37

Table 11. Monthly abundance 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	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	635.34 (111.1)	634.46	426.36-871.33	0.17	1115.73 (144.55)	1,120.95	865.8-1410.5	0.13	1472.14 (172.3)	1,462.93	1145.76-	0.12
Feb	629.96 (165.12)	635.88	355.07-974.57	0.26	808.13 (174.69)	809.76	525.51-1185.61	0.22	1045.69 (178.12)	1,044.44	730.44-1429.12	0.17
Mar	766.88 (107.9)	762.76	569.01-974.44	0.14	1127.12 (132.96)	1,127.01	872.36-1403.1	0.12	1669.36 (215.21)	1,663.97	1275.79-2114.53	0.13
Apr	2251.96 (301.95)	2,243.51	1670.86-	0.13	3190.07 (311.45)	3,177.90	2582.6-	0.10	4500.29 (335.19)	4,484.22	3861.23-	0.07
May	434.63 (93.94)	435.24	258.87-626.63	0.22	651.92 (138)	650.52	405.4-938.23	0.21	1288.3 (271.87)	1,267.81	781.56-1843.31	0.21

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	1057.24 (286.51)	1,052.61	554.33-1654.92	0.27	1231.53 (299.1)	1,226.45	694.74-	0.24	1533.67 (323.6)	1,553.25	1007.9-2254	0.21
Jul	2320.31 (406.82)	2,319.05	1570.33-	0.18	3566.02 (532.24)	3,559.68	2539.16-4635	0.15	4284.07 (530.28)	4,277.02	3285.35-	0.12
Aug	1443.29 (239.6)	1,440.19	996.31-1916.61	0.17	2301.96 (323.73)	2,298.47	1676.53-	0.14	3522.23 (396.05)	3,531.71	2796.39-	0.11
Sep	2275.51 (302.85)	2,264.42	1712.44-	0.13	3225.21 (352.7)	3,237.78	2579.71-3939.9	0.11	4382.44 (429.79)	4,384.83	3562.83-	0.10
Oct	1686.49 (240.61)	1,684.50	1231.34-2174.65	0.14	2597.59 (299.96)	2,595.89	2037.55-	0.12	3260.55 (296.7)	3,262.75	2722.02-3855.9	0.09
Nov	456.9 (81.25)	455.25	302.92-615.95	0.18	654.49 (101.03)	651.64	462.33-856.22	0.15	855.85 (99.97)	853.56	668.93-1051.97	0.12
Dec	554.09 (87.72)	553.16	381.16-727.38	0.16	964.81 (123.6)	963.22	733.46-1209.46	0.13	1332.91 (131.22)	1,335.01	1080.7-1606.72	0.10

Table 12. Monthly abundance 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	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	836.8 (146.33)	835.62	561.55-1147.61	0.17	1464.39 (189.73)	1,471.25	1136.37-1851.28	0.13	1929.28 (225.8)	1,917.21	1501.54-	0.12
Feb	826.18 (216.49)	833.93	465.74-1278.03	0.26	1061.15 (229.31)	1,063.30	690.09-	0.22	1371.01 (233.5)	1,369.39	957.72-1873.67	0.17
Mar	1007.02 (142.01)	1,001.62	746.68-1280.27	0.14	1479.58 (174.7)	1,479.43	1144.85-1842.21	0.12	2188.37 (282.08)	2,181.30	1672.49-	0.13
Apr	2953.52 (396.03)	2,942.43	2191.37-3715.58	0.13	4182.35 (408.38)	4,166.44	3385.87-	0.10	5899.6 (439.45)	5,878.54	5061.75-	0.07
May	570.45 (123.37)	571.25	339.66-822.64	0.22	857.58 (181.75)	855.73	533-1234.73	0.21	1687.98 (356.11)	1,661.16	1024.21-	0.21
Jun	1386.42 (375.71)	1,380.34	726.92-2170.17	0.27	1614.93 (392.22)	1,608.28	911.04-2438.12	0.24	2010.04 (424.12)	2,035.71	1320.95-	0.21
Jul	3043.39 (533.62)	3,041.76	2059.64-	0.18	4675.24 (697.84)	4,666.95	3328.94-	0.15	5615.06 (695.03)	5,605.82	4306.07-	0.12
Aug	1890.58 (313.91)	1,886.52	1304.98-	0.17	3017.25 (424.34)	3,012.67	2197.43-	0.14	4617.41 (519.18)	4,629.84	3665.93-	0.11
Sep	2982.05 (396.81)	2,967.53	2244.29-	0.13	4225.77 (462.11)	4,242.24	3380.06-	0.11	5742.7 (563.22)	5,745.82	4668.63-	0.10
Oct	2209.89 (315.29)	2,207.27	1613.48-	0.14	3404 (393.07)	3,401.79	2670.13-	0.12	4272.45 (388.78)	4,275.32	3566.79-	0.09
Nov	596.3 (106.03)	594.12	395.34-803.83	0.18	859.74 (132.69)	855.99	607.36-1124.69	0.15	1123.06 (131.22)	1,120.05	877.73-1380.48	0.12
Dec	728.45 (115.33)	727.23	501.08-956.3	0.16	1263.16 (161.93)	1,261.08	960.08-1583.71	0.13	1747.5 (172.04)	1,750.27	1416.82-2106.5	0.10

1.11 Herring Gull

Table 13. Monthly abundance 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	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	3.88 (6.51)	3.86	0-23.26	1.68	3.88 (6.29)	3.73	0-23.26	1.62	3.88 (6.32)	3.75	0-23.26	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		7.75 (12.11)	7.70	0-31	1.56	7.75 (12.81)	8.16	0-46.5	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	7.75 (6.98)	7.77	0-23.27	0.90	7.75 (7.14)	7.88	0-23.27	0.92	7.75 (7.02)	7.58	0-23.27	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 abundance 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	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		7.75 (7.51)	7.59	0-23.24	0.97	23.24 (12.3)	23.15	0-46.49	0.53
Feb	41.31 (44.49)	40.50	0-147.16	1.08	46.47 (45.2)	46.64	0-147.16	0.97	54.22 (48.48)	53.78	0-154.9	0.89
Mar	356.47 (128.31)	355.73	131.83-627.37	0.36	457.2 (147.57)	460.97	217.14-766.78	0.32	674.17 (188.11)	676.44	364.48-1061.1	0.28
Apr	11.63 (16.12)	11.40	0-54.29	1.39	11.63 (16.61)	11.67	0-54.29	1.43	11.63 (16.25)	11.61	0-54.29	1.40
May	0 (0)	0.00	0-0		3.88 (6.51)	4.00	0-23.29	1.68	3.88 (6.37)	3.89	0-23.29	1.64
Jun	77.49 (68.2)	74.66	0-255.8	0.88	81.36 (70.85)	82.09	0-271.31	0.87	89.11 (77.38)	91.18	0-294.56	0.87
Jul	219.67 (320.61)	220.67	0-1070.74	1.46	240.88 (343.12)	244.24	0-1142.13	1.42	267.38 (354.9)	266.24	0-1150.25	1.33
Aug	18.52 (24.55)	19.12	0-79.62	1.33	18.52 (23.74)	18.25	0-71.66	1.28	36.94 (37.02)	36.63	0-111.46	1.00
Sep	2.63 (5.56)	2.58	0-15.81	2.11	5.22 (6.69)	5.20	0-23.24	1.28	5.22 (6.87)	5.43	0-23.71	1.32
Oct	170.59 (188.1)	169.28	0-566.04	1.10	217.11 (232.2)	215.72	0-682.35	1.07	298.53 (312.73)	302.49	0-891.9	1.05
Nov	7.76 (10.67)	7.91	0-31.02	1.38	7.76 (10.46)	7.67	0-31.02	1.35	7.76 (10.08)	7.48	0-31.02	1.30
Dec	19.37 (24.44)	19.43	0-77.49	1.26	19.37 (25.17)	19.86	0-77.49	1.30	23.25 (27.95)	23.07	0-85.24	1.20

1.13 Large Auk sp.

Table 15. Monthly abundance 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	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	15.5 (10.81)	15.92	0-38.74	0.70	23.24 (12.56)	23.66	0-46.49	0.54	54.24 (20.78)	54.14	15.5-100.73	0.38
Feb	23.24 (23.23)	23.40	0-77.45	1.00	41.31 (33.63)	40.99	0-108.45	0.81	56.81 (29.85)	57.86	7.75-123.94	0.53
Mar	58.12 (26.76)	58.27	15.51-123.92	0.46	77.49 (29.99)	77.45	23.26-139.42	0.39	100.75 (32.8)	100.92	38.77-162.85	0.33
Apr	46.53 (43.02)	46.74	0-131.85	0.92	62.03 (50.37)	61.79	0-155.12	0.81	81.41 (61.99)	81.48	7.74-186.14	0.76
May	3.88 (6.61)	3.88	0-23.29	1.70	3.88 (6.58)	3.97	0-23.29	1.69	23.28 (23.46)	23.56	0-77.64	1.01
Jun	11.62 (12.39)	11.51	0-46.46	1.07	11.62 (12.33)	11.62	0-46.46	1.06	11.62 (12.31)	11.92	0-46.46	1.06
Jul	15.86 (26.67)	16.08	0-87.25	1.68	31.73 (48.79)	31.47	0-142.77	1.54	50.17 (70.36)	50.39	0-206.22	1.40
Aug	13.12 (14.64)	13.28	0-47.77	1.12	15.73 (13.12)	15.65	0-47.77	0.83	28.84 (17.75)	28.79	0-71.66	0.62
Sep	41.43 (36.62)	42.18	0-139.47	0.88	59.82 (38.19)	59.60	7.75-158.09	0.64	70.25 (38.94)	70.21	15.49-162.71	0.55
Oct	54.28 (24.36)	54.13	15.51-108.56	0.45	89.17 (25.93)	88.27	38.77-139.57	0.29	112.43 (39.33)	112.20	38.77-186.1	0.35
Nov	27.11 (17.5)	27.23	0-61.92	0.65	42.6 (19.79)	42.03	7.76-85.14	0.46	50.35 (20.78)	51.02	15.51-93.08	0.41
Dec	46.5 (31.8)	46.51	0-116.24	0.68	89.12 (41.15)	88.84	23.25-178.24	0.46	104.62 (43.24)	105.23	38.75-201.49	0.41

1.14 Lesser Black-backed Gull

Table 16. Monthly abundance 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	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)	0.00	0-0		0 (0)	0.00	0-0	
Feb	0 (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)	0.00	0-0		0 (0)	0.00	0-0	
Apr	0 (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)	0.00	0-0		0 (0)	0.00	0-0	
Jun	0 (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)	0.00	0-0		0 (0)	0.00	0-0	
Aug	2.58 (5.38)	2.5	0-15.49	2.08	2.58 (5.66)	2.66	0-23.23	2.19	5.16 (9.06)	4.95	0-30.97	1.75
Sep	0 (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)	0.00	0-0		0 (0)	0.00	0-0	
Nov	0 (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)	0.00	0-0		0 (0)	0.00	0-0	

1.15 Little Auk

Table 17. Monthly abundance 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	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	2.58 (5.38)	2.47	0-15.49	2.08	5.16 (7.19)	5.26	0-23.25	1.39	5.16 (6.9)	5.06	0-23.24	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	
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	3.87 (6.38)	4.03	0-23.22	1.65	11.61 (14.3)	11.45	0-46.44	1.23	19.35 (22.38)	19.41	0-61.92	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 abundance 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	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		2.64 (5.67)	2.65	0-15.86	2.14
Aug	2.6 (5.23)	2.57	0-15.61	2.01	2.6 (5.12)	2.51	0-15.61	1.97	5.2 (9.26)	5.18	0-31.21	1.78
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	

1.17 Puffin

Table 19. Monthly abundance 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	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		7.75 (7.51)	8.05	0-23.24	0.97	7.75 (7.22)	7.66	0-23.24	0.93
Feb	2.58 (5.47)	2.64	0-15.49	2.12	2.58 (5.41)	2.52	0-15.49	2.10	2.58 (5.23)	2.43	0-15.49	2.02
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	747.6 (142.28)	752.58	510.6-1055.01	0.19	976.13 (152.06)	976.81	727.21-1310.77	0.16	1173.75 (202.36)	1,175.82	850.99-	0.17
May	1183.9 (1124.98)	1,180.48	46.5-2989.27	0.95	1882.56	1,873.84	124.01-	0.91	2782.99	2,791.83	263.52-	0.87
Jun	3474.52	3,467.17	2291.75-5126.1	0.21	4284.04	4,295.20	3015.28-	0.18	5469.33	5,440.76	3999.62-	0.16
Jul	1522.47 (927.75)	1,527.62	585.49-	0.61	2359.8 (1281.92)	2,379.40	1002.36-	0.54	3432.81 (1397.5)	3,424.21	1652.22-	0.41
Aug	1198.52 (489.4)	1,195.49	557.12-2317.77	0.41	2201.79	2,200.77	955.4-	0.55	3217.65	3,238.37	1655.83-	0.50
Sep	785.53 (746.16)	784.68	69.73-2184.96	0.95	977.12 (944.73)	979.48	92.97-	0.97	1207.91	1,206.03	147.2-3130.22	0.93
Oct	112.43 (45.52)	111.26	38.77-209.36	0.40	139.57 (51.55)	139.79	62.03-248.13	0.37	162.83 (52.27)	162.71	77.54-279.15	0.32
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.88 (6.58)	3.95	0-23.27	1.70
Dec	3.87 (6.43)	3.93	0-23.25	1.66	3.87 (6.38)	3.84	0-23.25	1.65	7.75 (10.17)	7.79	0-31	1.31

Table 20. Monthly abundance 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 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		7.75 (7.51)	8.05	0-23.24	0.97	7.75 (7.22)	7.66	0-23.24	0.93
Feb	2.58 (2.31)	2.64	0-7.75	0.89	2.58 (2.35)	2.52	0-7.75	0.91	2.58 (2.27)	2.43	0-7.75	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	774.72 (121.52)	779.93	553.87-1023.91	0.16	1007.14 (123.47)	1,007.79	782.96-1251.43	0.12	1212.51 (125.39)	1,214.65	976.24-1460.71	0.10
May	1203.31 (241.4)	1,199.83	769.57-1680.5	0.20	1917.49 (282.71)	1,908.61	1376.14-	0.15	2837.33 (328.71)	2,846.34	2239.57-	0.12
Jun	3501.63 (664.34)	3,494.27	2314.09-	0.19	4322.76 (674.79)	4,333.96	3126.1-5706.83	0.16	5531.29 (737.01)	5,502.22	4185.92-	0.13

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	1580.81 (235.99)	1,586.24	1151.67-	0.15	2447.22 (321.54)	2,467.48	1864.5-3122.75	0.13	3578.78 (588.28)	3,570.62	2541.48-	0.16
Aug	1232.33 (226.7)	1,229.12	830.77-1723.6	0.18	2259.14 (393.25)	2,258.01	1540.71-	0.17	3293.43 (484.39)	3,314.03	2446.78-	0.15
Sep	808.93 (130.75)	808.04	584.29-1094.81	0.16	1005.68 (137.15)	1,008.12	751.79-1283.55	0.14	1239.06 (130.87)	1,237.13	1002.12-1505.17	0.11
Oct	112.43 (30.27)	111.26	54.28-174.47	0.27	143.45 (33.82)	143.68	83.78-215.09	0.24	166.71 (35.87)	166.58	99.31-238.14	0.22
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.88 (3.72)	3.95	0-11.63	0.96
Dec	3.87 (3.6)	3.93	0-11.62	0.93	3.87 (3.6)	3.84	0-11.62	0.93	7.75 (4.63)	7.79	0-19.37	0.60

Table 21. Monthly abundance 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 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		7.75 (7.51)	8.05	0-23.24	0.97	7.75 (7.22)	7.66	0-23.24	0.93
Feb	2.58 (2.31)	2.64	0-7.75	0.89	2.58 (2.35)	2.52	0-7.75	0.91	2.58 (2.27)	2.43	0-7.75	0.88
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	902.55 (141.54)	908.60	645.25-1192.77	0.16	1173.71 (143.92)	1,174.46	912.41-1458.44	0.12	1413.95 (146.22)	1,416.45	1138.42-	0.10
May	1401.27 (281.03)	1,397.23	896.32-1956.81	0.20	2231.9 (328.96)	2,221.57	1601.97-	0.15	3306.98 (383.23)	3,317.48	2610.1-4105.13	0.12
Jun	4078.77 (773.89)	4,070.21	2695.43-	0.19	5035.48 (786.02)	5,048.53	3641.56-	0.16	6441.55 (858.29)	6,407.70	4874.78-8158.1	0.13
Jul	1841.65 (274.92)	1,847.96	1341.7-2405.54	0.15	2850.28 (374.5)	2,873.87	2171.56-	0.13	4169.55 (685.56)	4,160.06	2960.83-	0.16
Aug	1435.56 (264.05)	1,431.82	967.8-2007.69	0.18	2631.74 (458.16)	2,630.42	1794.75-	0.17	3835.82 (564.17)	3,859.81	2849.72-	0.15
Sep	941.17 (152.05)	940.13	679.95-1273.64	0.16	1171.55 (159.72)	1,174.38	875.9-1495.15	0.14	1441.24 (152.14)	1,438.99	1165.81-1750.55	0.11
Oct	131.82 (35.57)	130.47	63.5-204.62	0.27	166.71 (39.28)	166.98	97.39-249.94	0.24	193.85 (41.76)	193.70	115.4-276.93	0.22
Nov	0 (0)	0.00	0-0		0 (0)	0.00	0-0		3.88 (3.72)	3.95	0-11.63	0.96
Dec	3.87 (3.6)	3.93	0-11.62	0.93	3.87 (3.6)	3.84	0-11.62	0.93	7.75 (4.63)	7.79	0-19.37	0.60

1.18 Razorbill

Table 22. Monthly abundance 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	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	30.98 (28.84)	30.27	0-92.94	0.93	36.15 (35.18)	36.14	0-108.45	0.97	36.15 (34.48)	35.76	0-108.43	0.95
Mar	38.77 (37.89)	38.65	0-124.08	0.98	65.91 (58.66)	64.96	0-193.87	0.89	96.9 (49.89)	96.70	23.24-201.63	0.51
Apr	23.27 (26.57)	23.66	0-77.56	1.14	50.41 (54.38)	50.47	0-155.12	1.08	77.56 (81.56)	77.65	0-217.17	1.05
May	3.88 (5.83)	3.86	0-15.53	1.50	3.88 (5.83)	3.78	0-15.53	1.50	15.51 (12.95)	15.45	0-46.5	0.83
Jun	15.5 (17.95)	15.11	0-54.26	1.16	15.5 (18.26)	15.58	0-54.26	1.18	42.63 (49.13)	42.54	0-147.28	1.15
Jul	31.79 (46.31)	32.45	0-158.63	1.46	45 (61.68)	44.63	0-206.22	1.37	66.15 (90.41)	66.10	0-277.6	1.37
Aug	36.3 (44.47)	36.71	0-154.87	1.22	49.29 (43.11)	48.78	0-154.87	0.87	57.03 (52.9)	57.76	0-193.59	0.93
Sep	65.09 (33.38)	65.62	7.75-134.38	0.51	115.05 (92.52)	115.53	7.75-347.81	0.80	172.75 (148.89)	172.68	23.24-553.33	0.86
Oct	7.75 (10.44)	7.54	0-31.02	1.35	7.75 (10.6)	7.71	0-31.02	1.37	15.51 (12.21)	15.60	0-46.52	0.79
Nov	0 (0)	0.00	0-0		3.88 (6.33)	3.85	0-23.27	1.63	3.88 (6.69)	3.93	0-23.27	1.72
Dec	7.75 (10.53)	7.69	0-31	1.36	11.62 (14.8)	11.72	0-46.5	1.27	11.62 (14.59)	11.53	0-46.5	1.26

Table 23. Monthly abundance 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	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	33.56 (16.61)	32.85	2.58-67.65	0.49	38.73 (18.25)	38.73	7.75-75.39	0.47	38.73 (17.54)	38.32	7.75-75.39	0.45
Mar	46.52 (21.98)	46.39	9.48-92.18	0.47	77.54 (30.61)	76.43	23.26-144.99	0.39	108.53 (38.88)	108.30	39.68-189.69	0.36
Apr	23.27 (8.54)	23.66	7.76-42.66	0.37	54.29 (15.39)	54.35	29.23-87.7	0.28	81.44 (18.5)	81.53	48.86-118.09	0.23
May	3.88 (3.09)	3.86	0-11.65	0.80	3.88 (3.14)	3.78	0-11.65	0.81	15.51 (9.69)	15.45	0-34.9	0.62

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	15.5 (6.85)	15.11	3.88-31.01	0.44	15.5 (6.73)	15.58	3.88-31.01	0.43	42.63 (17.36)	42.54	11.63-77.52	0.41
Jul	31.79 (21.68)	32.45	2.64-79.49	0.68	45 (23.28)	44.63	7.93-95.42	0.52	68.8 (27.16)	68.73	24.83-126.39	0.39
Aug	38.88 (23.15)	39.32	5.63-91.31	0.60	51.87 (27.31)	51.33	8.39-108.85	0.53	59.61 (28.21)	60.38	13.77-121.63	0.47
Sep	65.09 (31.84)	65.62	13.07-135.25	0.49	120.32 (55.07)	120.83	32.97-237.62	0.46	178.02 (71.27)	177.93	56.64-331.66	0.40
Oct	7.75 (5.1)	7.54	0-19.39	0.66	7.75 (5.15)	7.71	0-19.39	0.66	15.51 (12.08)	15.60	0-42.65	0.78
Nov	0 (0)	0.00	0-0		3.88 (3.55)	3.85	0-11.63	0.92	3.88 (3.82)	3.93	0-11.63	0.99
Dec	7.75 (5.09)	7.69	0-19.37	0.66	11.62 (6.39)	11.72	0-27.12	0.55	11.62 (6.33)	11.53	0-27.12	0.54

Table 24. Monthly abundance 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	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 (15.12)	30.27	2.58-61.96	Inf	0 (16.77)	36.14	7.75-69.71	Inf	0 (16.11)	35.76	7.75-69.71	Inf
Mar	0 (18.65)	38.65	7.75-77.53	Inf	0 (26.33)	64.96	19.39-124.05	Inf	0 (35.14)	96.70	34.89-170.53	Inf
Apr	0 (8.54)	23.66	7.76-42.66	Inf	0 (14.29)	50.47	27.15-81.44	Inf	0 (17.62)	77.65	46.54-112.46	Inf
May	0 (3.09)	3.86	0-11.65	Inf	0 (3.14)	3.78	0-11.65	Inf	0 (9.69)	15.45	0-34.9	Inf
Jun	0 (6.85)	15.11	3.88-31.01	Inf	0 (6.73)	15.58	3.88-31.01	Inf	0 (17.36)	42.54	11.63-77.52	Inf
Jul	0 (21.68)	32.45	2.64-79.49	Inf	0 (23.28)	44.63	7.93-95.42	Inf	0 (26.23)	66.10	23.79-121.79	Inf
Aug	0 (21.79)	36.71	5.16-85.68	Inf	0 (26.13)	48.78	7.74-103.9	Inf	0 (27.2)	57.76	12.91-116.81	Inf
Sep	0 (31.84)	65.62	13.07-135.25	Inf	0 (52.82)	115.53	31.41-227.47	Inf	0 (69.21)	172.68	54.97-321.96	Inf
Oct	0 (5.1)	7.54	0-19.39	Inf	0 (5.15)	7.71	0-19.39	Inf	0 (12.08)	15.60	0-42.65	Inf
Nov	0 (0)	0.00	0-0		0 (3.55)	3.85	0-11.63	Inf	0 (3.82)	3.93	0-11.63	Inf
Dec	0 (5.09)	7.69	0-19.37	Inf	0 (6.39)	11.72	0-27.12	Inf	0 (6.33)	11.53	0-27.12	Inf

1.19 Red-throated Diver

Table 25. Monthly abundance 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	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		3.88 (6.04)	3.88	0-15.53	1.55	3.88 (6.01)	3.96	0-15.53	1.55
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	3.88 (6.27)	3.73	0-23.26	1.62	3.88 (6.37)	3.86	0-23.26	1.64	3.88 (6.53)	3.98	0-23.26	1.68
Nov	0 (0)	0.00	0-0		3.87 (6.23)	3.76	0-23.22	1.61	3.87 (6.14)	3.73	0-23.22	1.59
Dec	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	

1.20 Shag

Table 26. Monthly abundance 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	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		2.58 (5.77)	2.63	0-23.25	2.23
Mar	0 (0)	0.00	0-0		0 (0)	0.00	0-0		0 (0)	0.00	0-0	
Apr	3.88 (6.57)	3.82	0-23.27	1.69	3.88 (6.43)	3.91	0-23.27	1.66	3.88 (6.31)	3.86	0-23.27	1.63
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 (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	