



# Arklow Bank Wind Park 2

## Environmental Impact Assessment Report

Volume III, Appendix 12.3: Offshore Ornithology Technical Report -  
Monthly Seabird Abundance (Revised March 2026)



MacArthur  
Green

## Arklow Bank Wind Park 2

### Appendix 12.03 Offshore Ornithology Technical Report

### Monthly Seabird Abundance (Revised March 2026)

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## 1 OFFSHORE ORNITHOLOGY TECHNICAL REPORT – MONTHLY SEABIRD ABUNDANCE

Table 1. Arklow Bank. Design-based estimates of Arctic / common tern abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	190	10-530	215	20-570	230	30-590.12
May	150	24.88-335	190	45-385	220	70-415
Jun	0	0-0	0	0-0	0	0-0
Jul	5	0-15	10	0-25	25	5-55
Aug	315	115-592.56	420	134.94-785.06	440	160-812.81
Sep	53.33	10-113.33	123.33	43.33-223.33	143.33	60-246.67
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 2. Arklow Bank. Design-based estimates of Arctic / common tern abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	35	5-75	60	19.88-115	75	30-130
May	95	5-220	130	20-275	160	45-315
Jun	0	0-0	0	0-0	0	0-0
Jul	5	0-15	10	0-25	25	5-55
Aug	132.5	50-242.5	167.5	72.5-292.56	187.5	87.44-322.5
Sep	33.33	3.33-76.67	96.67	30-190	113.33	40-213.5
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 3. Arklow Bank. Design-based estimates of Arctic / common tern abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	155	0-465	155	0-465	155	0-465
May	55	0-160	60	0-165	60	0-165
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	182.5	30-430	252.5	32.44-572.56	252.5	30-580
Sep	20	0-53.33	26.67	3.33-63.33	30	6.67-66.67
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 4. Arklow Bank. Design-based estimates of Arctic skua abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	10	0-30
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 5. Arklow Bank. Design-based estimates of Arctic skua abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	10	0-30
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 6. Arklow Bank. Design-based estimates of Arctic skua abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 7. Arklow Bank. Design-based estimates of Arctic tern abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	127.5	22.5-300	155	42.5-342.5	167.5	50-357.5
May	190	39.92-413.42	240	79.92-470	280	96.67-520.08
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	20	0-60
Aug	1076.67	363.33-2093.92	1113.33	419.92-2093.33	1226.67	456.58-2240
Sep	20	0-53.33	86.67	26.67-170	143.33	46.67-280
Oct	20	0-45	20	0-45	25	0-60
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 8. Arklow Bank. Design-based estimates of Arctic tern abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	127.5	22.5-307.5	155	42.5-352.5	167.5	47.5-372.69
May	60	13.25-130	110	36.67-210	150	60-263.5
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	20	0-60
Aug	546.67	173.25-1056.83	583.33	203.33-1110	636.67	250-1133.42
Sep	20	0-53.33	86.67	29.92-163.33	143.33	46.58-276.67
Oct	20	0-50	20	0-45	25	0-60.12
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 9. Arklow Bank. Design-based estimates of Arctic tern abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	130	0-306.92	130	0-306.67	130	0-306.67
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	530	50-1260.17	530	53.25-1356.67	590	80-1460.17
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 10. Arklow Bank. Design-based estimates of Auk / shearwater species abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	10	0-30
Mar	10	0-30	10	0-30	10	0-30
Apr	55	10-130	75	10-155	110	35-200
May	40	5-90	150	69.88-245	280	150-430
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	20	0-50	26.67	3.33-60
Aug	37.5	2.5-95	115	20-250.06	147.5	45-287.5
Sep	30	0-73.33	60	6.67-130	76.67	20-153.33
Oct	0	0-0	10	0-30.25	20	0-50
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 11. Arklow Bank. Design-based estimates of Auk / shearwater species abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	10	0-30
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	5	0-15	10	0-25
May	0	0-0	20	0-45	30	5-75
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	3.33	0-10	6.67	0-16.67
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	6.67	0-20	6.67	0-20
Oct	0	0-0	0	0-0	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 12. Arklow Bank. Design-based estimates of Auk / shearwater species abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	10	0-30	10	0-30	10	0-30
Apr	55	10-125.12	70	10-155	100	30-190
May	40	5-85.12	130	55-215.12	250	135-395.12
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	16.67	0-43.33	20	0-50
Aug	37.5	2.5-100	115	20-247.56	147.5	45-290
Sep	30	0-73.33	53.33	6.67-120	70	16.67-136.67
Oct	0	0-0	10	0-30	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 13. Arklow Bank. Design-based estimates of Auk species abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	700	350-1126.67	836.67	463.33-1263.42	856.67	466.58-1280.17
2	270	97.5-492.5	282.5	112.5-505	300	125-522.56
3	17.5	2.5-42.62	22.5	2.5-52.5	25	5-55
4	22.5	2.5-50	47.5	12.5-95	77.5	30-135
5	62.5	20-125	150	67.44-255	197.5	107.44-300
6	23.33	0-66.67	36.67	0-86.67	46.67	6.67-96.75
7	25	2.5-55	85	32.5-157.5	192.5	85-322.5
8	47.5	12.5-97.5	112.5	44.94-202.56	245	117.44-410.12
9	63.33	10-146.67	200	89.92-343.33	280	150-446.67
10	60	10-123.42	140	70-226.67	206.67	113.33-303.33
11	183.33	59.92-356.67	303.33	143.25-520.08	416.67	233.33-650
12	220	50-456.75	300	100-573.5	346.67	143.33-626.67

Table 14. Arklow Bank. Design-based estimates of Auk species abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	30	0-80.08	36.67	0-90	43.33	6.67-100.08
2	27.5	0-72.5	35	2.5-90.06	35	2.5-87.5
3	0	0-0	0	0-0	0	0-0
4	0	0-0	0	0-0	5	0-15
5	5	0-15	12.5	0-30	15	2.5-30
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	3.33	0-10
10	6.67	0-20	13.33	0-40	23.33	0-60
11	23.33	0-63.33	30	0-73.5	40	6.67-86.67
12	0	0-0	0	0-0	0	0-0

Table 15. Arklow Bank. Design-based estimates of Auk species abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	670	333.33-1110	800	453.25-1206.67	813.33	456.67-1243.5
2	242.5	87.5-447.5	247.5	92.5-442.56	265	110-477.5
3	17.5	2.5-45	22.5	2.5-50	25	5-55
4	22.5	2.5-50.06	47.5	12.5-97.5	72.5	27.5-127.5
5	57.5	17.5-112.5	137.5	67.5-225	182.5	100-280
6	23.33	0-66.67	36.67	0-93.33	46.67	6.67-103.42
7	25	2.5-55	85	30-150.06	192.5	90-325
8	47.5	12.5-95.06	110	40-200	242.5	120-405
9	63.33	10-146.67	200	93.33-343.42	276.67	150-433.33
10	53.33	6.67-113.33	126.67	60-203.42	183.33	100-273.42
11	160	49.92-293.33	273.33	130-453.42	376.67	210-580
12	220	46.67-453.42	300	96.67-583.33	346.67	139.83-606.75

Table 16. Arklow Bank. Design-based estimates of Black-headed gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	560	106.67-1103.5	590	149.92-1160.17	613.33	186.58-1196.75
Feb	350	72.5-707.62	370	104.81-747.5	390	102.44-755.06
Mar	36.67	0-103.33	36.67	0-120	36.67	0-100
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	3.33	0-10	16.67	3.33-36.67	23.33	6.67-46.67
Aug	2.5	0-7.5	17.5	0-45	17.5	0-47.5
Sep	3.33	0-10	6.67	0-16.67	10	0-23.33
Oct	66.67	6.67-160	66.67	6.67-160.08	76.67	10-176.67
Nov	396.67	53.33-916.75	496.67	143.25-1013.42	616.67	233.25-1156.67
Dec	403.33	33.33-1016.75	413.33	36.58-1040.17	446.67	86.67-1066.75

Table 17. Arklow Bank. Design-based estimates of Black-headed gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	463.33	109.83-963.58	493.33	130-996.75	506.67	139.92-983.67
Feb	220	45-497.62	240	57.5-505.06	257.5	77.44-525.06
Mar	23.33	0-70	23.33	0-70	23.33	0-70
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	3.33	0-13.33	16.67	3.33-36.67	23.33	6.67-46.67
Aug	2.5	0-7.5	5	0-15	5	0-15.06
Sep	3.33	0-10	3.33	0-10	6.67	0-16.67
Oct	43.33	3.33-103.33	43.33	3.33-100	53.33	6.67-113.33
Nov	130	26.67-276.75	213.33	73.33-393.33	246.67	103.33-433.33
Dec	376.67	30-983.75	386.67	43.33-990.33	420	60-973.42

Table 18. Arklow Bank. Design-based estimates of Black-headed gull abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	96.67	9.92-206.75	96.67	10-216.75	106.67	13.33-236.67
Feb	130	22.5-280	130	22.5-292.56	132.5	17.5-295.06
Mar	13.33	0-33.42	13.33	0-40	13.33	0-36.67
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	12.5	0-32.5	12.5	0-32.5
Sep	0	0-0	3.33	0-10	3.33	0-10
Oct	23.33	0-70	23.33	0-70	23.33	0-70
Nov	266.67	26.67-630.42	283.33	29.92-666.83	370	73.33-753.42
Dec	26.67	0-90	26.67	0-80	26.67	0-80

Table 19. Arklow Bank. Design-based estimates of Common gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	1220	159.92-3050.25	1576.67	189.92-3493.92	1696.67	276.58-3980.58
2	1162.5	252.5-2370.31	1185	282.31-2382.88	1207.5	327.44-2460.12
3	40	5-92.5	72.5	19.94-145	87.5	32.5-160.06
4	20	2.5-50.06	27.5	2.5-67.5	30	5-72.5
5	0	0-0	10	0-30	10	0-30
6	15	0-45	15	0-45	15	0-45
7	0	0-0	5	0-15	5	0-15
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	3.33	0-10	13.33	3.33-26.67	26.67	10-46.67
11	270	59.92-540.08	463.33	176.67-863.42	510	209.92-943.42
12	403.33	39.92-1070	433.33	63.33-1093.42	523.33	130-1216.75

Table 20. Arklow Bank. Design-based estimates of Common gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	463.33	69.92-1043.42	820	83.33-2010.25	880	139.92-2063.42
2	895	257.44-1875.06	917.5	274.88-1817.94	935	269.88-1860.25
3	20	2.5-47.5	52.5	15-100	62.5	20-115
4	2.5	0-7.5	10	0-27.5	12.5	2.5-27.5
5	0	0-0	0	0-0	0	0-0
6	15	0-45	15	0-45	15	0-45
7	0	0-0	5	0-15	5	0-15
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	0	0-0	10	0-23.33	23.33	6.67-46.67
11	130	40-266.67	296.67	116.67-560	336.67	140-626.75
12	350	23.33-953.42	376.67	46.67-1003.67	463.33	106.67-1090.08

Table 21. Arklow Bank. Design-based estimates of Common gull abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	756.67	56.67-2036.67	756.67	53.33-2377	816.67	56.67-2110.08
2	267.5	17.5-625	267.5	22.5-617.56	272.5	37.38-605
3	20	0-55	20	0-55	25	0-62.5
4	17.5	2.5-40	17.5	2.5-42.5	17.5	2.5-40
5	0	0-0	10	0-30	10	0-30
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	3.33	0-10	3.33	0-10	3.33	0-10
11	140	6.67-306.67	166.67	20-346.67	173.33	26.67-363.42
12	53.33	3.33-130	56.67	3.33-140	60	3.33-143.33

Table 22. Arklow Bank. Design-based estimates of Common scoter abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	6.67	0-23.33	6.67	0-20	6.67	0-20
Feb	10	0-30	10	0-30	10	0-30
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	10	0-30
May	0	0-0	0	0-0	0	0-0
Jun	10	0-30	10	0-30	10	0-30
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	13.33	0-36.67
Nov	0	0-0	0	0-0	0	0-0
Dec	13.33	0-36.67	13.33	0-36.67	13.33	0-40

Table 23. Arklow Bank. Design-based estimates of Common scoter abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 24. Arklow Bank. Design-based estimates of Common scoter abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	6.67	0-20	6.67	0-20	6.67	0-20
Feb	10	0-30	10	0-30	10	0-30
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	10	0-30
May	0	0-0	0	0-0	0	0-0
Jun	10	0-30	10	0-30	10	0-30
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	3.33	0-10
Nov	0	0-0	0	0-0	0	0-0
Dec	13.33	0-36.67	13.33	0-36.75	13.33	0-36.67

Table 25. Arklow Bank. Design-based estimates of Common tern abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	47.5	10-95	80	30-145	102.5	42.5-177.5
May	73.33	0-200	73.33	0-210.08	76.67	0-213.33
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	20	0-60
Aug	300	140-513.33	343.33	163.33-573.33	403.33	223.33-650.25
Sep	55	15-100	265	90-500	430	114.88-905
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 26. Arklow Bank. Design-based estimates of Common tern abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	47.5	12.5-97.5	75	27.5-142.5	97.5	40-172.5
May	73.33	0-210	73.33	0-210.08	76.67	0-196.75
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	20	0-60
Aug	263.33	116.67-466.75	306.67	130-536.83	366.67	193.25-576.75
Sep	55	15-100	265	90-490.12	430	110-890
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 27. Arklow Bank. Design-based estimates of Common tern abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	5	0-15.12	5	0-15
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	36.67	3.33-83.33	36.67	3.33-80.08	36.67	3.33-90
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 28. Arklow Bank. Design-based estimates of Cormorant abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	3.33	0-10	3.33	0-10.08	6.67	0-20
Feb	0	0-0	2.5	0-7.5	5	0-15
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	5	0-15
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	6.67	0-20	6.67	0-20	6.67	0-20
Oct	10	0-30	10	0-30	10	0-30
Nov	5	0-15	5	0-15	5	0-15
Dec	5	0-15	5	0-15	5	0-15

Table 29. Arklow Bank. Design-based estimates of Cormorant abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	3.33	0-10
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	3.33	0-10	3.33	0-10	3.33	0-10
Oct	10	0-30	10	0-30	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 30. Arklow Bank. Design-based estimates of Cormorant abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	3.33	0-10	3.33	0-10	3.33	0-10
Feb	0	0-0	2.5	0-7.5	5	0-15
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	5	0-15
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	3.33	0-10	3.33	0-10	3.33	0-10
Oct	0	0-0	0	0-0	0	0-0
Nov	5	0-15	5	0-15	5	0-15
Dec	5	0-15	5	0-15	5	0-15

Table 31. Arklow Bank. Design-based estimates of Cormorant / shag abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	10	0-30	10	0-30	10	0-30.25
Apr	0	0-0	0	0-0	5	0-15
May	10	0-30	10	0-30	10	0-30
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	10	0-30	10	0-30	10	0-30

Table 32. Arklow Bank. Design-based estimates of Cormorant / shag abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 33. Arklow Bank. Design-based estimates of Cormorant / shag abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	10	0-30	10	0-30	10	0-30
Apr	0	0-0	0	0-0	5	0-15
May	10	0-30	10	0-30	10	0-30
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	10	0-30	10	0-30	10	0-30

Table 34. Arklow Bank. Design-based estimates of Diver species abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	20	0-60	20	0-60	30	0-80
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 35. Arklow Bank. Design-based estimates of Diver species abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 36. Arklow Bank. Design-based estimates of Diver species abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	20	0-60	20	0-60	30	0-80
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 37. Arklow Bank. Design-based estimates of European storm petrel abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	10	0-30	10	0-30	10	0-30
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 38. Arklow Bank. Design-based estimates of European storm petrel abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	10	0-30	10	0-30	10	0-30
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 39. Arklow Bank. Design-based estimates of European storm petrel abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 40. Arklow Bank. Design-based estimates of Fulmar abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	20	0-60
Feb	0	0-0	10	0-30	10	0-30
Mar	0	0-0	0	0-0	0	0-0
Apr	3.33	0-10	6.67	0-20	10	0-26.67
May	0	0-0	5	0-15	5	0-15
Jun	0	0-0	0	0-0	3.33	0-10
Jul	0	0-0	6.67	0-16.67	6.67	0-16.67
Aug	0	0-0	20	0-50	20	0-50
Sep	5	0-15	5	0-15	10	0-30
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 41. Arklow Bank. Design-based estimates of Fulmar abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	10	0-30	10	0-30
Mar	0	0-0	0	0-0	0	0-0
Apr	3.33	0-13.33	6.67	0-20.08	10	0-30
May	0	0-0	5	0-15	5	0-15
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	3.33	0-10	3.33	0-10
Aug	0	0-0	10	0-30	10	0-30
Sep	5	0-15	5	0-15	10	0-30
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 42. Arklow Bank. Design-based estimates of Fulmar abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	20	0-60
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	3.33	0-10
Jul	0	0-0	3.33	0-10	3.33	0-10
Aug	0	0-0	10	0-30	10	0-30
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 43. Arklow Bank. Design-based estimates of Gannet abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	5	0-15	10	0-25	15	0-40
2	10	0-30	20	0-50	50	15-90
3	13.33	0-36.67	16.67	0-46.67	26.67	0-66.67
4	10	0-30	40	0-116.67	40	0-116.67
5	7.5	0-20	25	7.5-50.06	40	10-82.5
6	12.5	0-35	15	0-40	37.5	2.5-92.5
7	10	0-27.5	17.5	0-45	32.5	2.5-75.06
8	45	2.5-120	72.5	15-157.5	95	27.5-190.06
9	6.67	0-16.67	20	3.33-40	33.33	6.67-73.33
10	36.67	3.33-83.33	43.33	3.33-93.5	63.33	16.58-120
11	20	0-50	25	0-60	25	0-55
12	20	0-50	30	0-75	40	5-85

Table 44. Arklow Bank. Design-based estimates of Gannet abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	5	0-15	10	0-25	15	0-40
2	10	0-30	15	0-40	20	0-50
3	13.33	0-36.67	16.67	0-46.67	26.67	0-63.33
4	10	0-30	40	0-116.67	40	0-116.67
5	7.5	0-20	20	2.5-45	35	5-80
6	7.5	0-22.5	10	0-27.5	32.5	2.5-80
7	10	0-27.5	17.5	0-47.5	30	0-75
8	35	0-105	52.5	5-127.62	70	14.94-150
9	3.33	0-10.08	13.33	0-30	26.67	3.33-66.67
10	30	0-66.67	33.33	3.33-70	46.67	10-90
11	5	0-15	10	0-25	10	0-25
12	10	0-30	20	0-55	20	0-55

Table 45. Arklow Bank. Design-based estimates of Gannet abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	0	0-0	0	0-0	0	0-0
2	0	0-0	5	0-15	30	10-55
3	0	0-0	0	0-0	0	0-0
4	0	0-0	0	0-0	0	0-0
5	0	0-0	2.5	0-7.5	2.5	0-7.5
6	5	0-15	5	0-15	5	0-15
7	0	0-0	0	0-0	2.5	0-7.5
8	10	0-25	20	2.5-45	25	5-52.5
9	3.33	0-10	6.67	0-16.67	6.67	0-16.67
10	6.67	0-20	10	0-26.67	16.67	0-40
11	15	0-40	15	0-40	15	0-40
12	10	0-30	10	0-30	20	0-50

Table 46. Arklow Bank. Design-based estimates of Great black-backed gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	10	0-25	10	0-25	10	0-25
2	0	0-0	3.33	0-10	6.67	0-16.67
3	0	0-0	2.5	0-7.5	5	0-15
4	0	0-0	0	0-0	0	0-0
5	0	0-0	0	0-0	10	0-30
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	3.33	0-10
8	0	0-0	0	0-0	0	0-0
9	3.33	0-10.08	6.67	0-20	6.67	0-20
10	0	0-0	0	0-0	3.33	0-10
11	10	0-30	10	0-30	23.33	0-70
12	3.33	0-10	6.67	0-20	6.67	0-20

Table 47. Arklow Bank. Design-based estimates of Great black-backed gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	5	0-15	5	0-15	5	0-15
2	0	0-0	3.33	0-10	3.33	0-10
3	0	0-0	2.5	0-7.5	5	0-15
4	0	0-0	0	0-0	0	0-0
5	0	0-0	0	0-0	10	0-30
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	3.33	0-10
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	0	0-0	0	0-0	3.33	0-10
11	0	0-0	0	0-0	0	0-0
12	0	0-0	0	0-0	0	0-0

Table 48. Arklow Bank. Design-based estimates of Great black-backed gull abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	5	0-15	5	0-15	5	0-15
2	0	0-0	0	0-0	3.33	0-13.33
3	0	0-0	0	0-0	0	0-0
4	0	0-0	0	0-0	0	0-0
5	0	0-0	0	0-0	0	0-0
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	0	0-0
9	3.33	0-10	6.67	0-23.33	6.67	0-20
10	0	0-0	0	0-0	0	0-0
11	10	0-30	10	0-30	23.33	0-80
12	3.33	0-10	6.67	0-20	6.67	0-20

Table 49. Arklow Bank. Design-based estimates of Great northern diver abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	10	0-30	10	0-30	20	0-50
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	5	0-15	5	0-15
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	10	0-30	10	0-30	10	0-30

Table 50. Arklow Bank. Design-based estimates of Great northern diver abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 51. Arklow Bank. Design-based estimates of Great northern diver abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	10	0-30	10	0-30	20	0-50
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	5	0-15	5	0-15
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	10	0-30	10	0-30	10	0-30

Table 52. Arklow Bank. Design-based estimates of Guillemot abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3298.25	1828.73-5149.23	3991.23	2455.92-5710.86	4210.53	2749.56-6026.43
2	1026.32	397.94-1967.19	1286.18	565.7-2194.08	1401.32	684.04-2368.58
3	32.9	3.29-75.66	88.82	26.32-174.43	151.32	55.92-276.32
4	273.03	115.05-457.4	447.37	250-684.29	740.13	493.42-1029.69
5	4230.26	973.6-9212.01	9009.87	4900.58-14674.75	12953.95	8407.24-19523.69
6	134.87	46.05-243.42	421.05	256.58-615.13	799.34	562.5-1062.58
7	848.68	519.66-1240.38	2769.74	2065.79-3566.03	6092.11	4946.96-7319.24
8	1266.45	746.54-1914.64	3555.92	2552.55-4711.02	5976.97	4693.75-7496.88
9	745.62	390.24-1162.39	2342.1	1727.74-3079.06	4232.46	3425.11-5158.22
10	1144.74	635.86-1820.28	2232.46	1526.21-3079.28	3495.61	2684.1-4570.73
11	1346.49	635.74-2316.01	3456.14	2162.17-5062.06	4793.86	3385.97-6399.45
12	1206.14	451.75-2184.43	1600.88	806.69-2671.16	2131.58	1319.96-3127.3

Table 53. Arklow Bank. Design-based estimates of Guillemot abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	236.84	61.4-491.34	473.68	223.69-780.92	543.86	276.21-842.1
2	16.45	0-42.76	46.06	6.58-101.97	59.21	16.45-115.13
3	0	0-0	19.74	0-59.21	42.76	0-121.71
4	36.19	0-108.55	46.05	3.29-118.42	105.26	26.32-207.24
5	49.34	13.16-105.26	121.71	49.26-220.48	220.4	108.55-368.5
6	6.58	0-19.74	19.74	0-49.34	59.21	13.16-121.71
7	32.9	0-88.82	42.76	6.58-101.97	72.37	16.45-141.44
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	17.54	0-35.09	74.56	13.16-166.67	78.95	17.54-171.27
11	149.12	39.47-302.63	175.44	61.4-333.33	210.52	92.11-381.58
12	43.86	8.66-100.88	70.18	21.93-131.58	149.12	65.79-254.38

Table 54. Arklow Bank. Design-based estimates of Guillemot abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3061.4	1670.94-4737.06	3517.54	2069.96-5149.23	3666.67	2271.71-5456.91
2	1009.87	384.79-1921.13	1240.13	565.79-2279.77	1342.11	631.41-2345.56
3	32.9	3.29-72.37	69.08	23.03-131.58	108.55	42.76-181
4	236.84	92.11-421.13	401.32	217.02-628.29	634.87	397.86-891.53
5	4180.92	979.77-8824.26	8888.16	4825.24-14586.27	12733.55	8253.21-19076.32
6	128.29	46.06-236.84	401.32	236.76-588.9	740.13	509.87-1000.08
7	815.79	489.97-1197.53	2726.98	2016.29-3516.7	6019.74	4927.22-7217.68
8	1266.45	730.18-1921.05	3555.92	2582.24-4731	5976.97	4703.62-7477.38
9	745.62	416.45-1171.27	2342.1	1697.26-3022.04	4232.46	3385.86-5149.24
10	1127.19	600.88-1829.17	2157.89	1482.35-3070.29	3416.67	2591.89-4451.75
11	1197.37	543.75-2075.11	3280.7	2043.75-4750.44	4583.33	3245.18-6162.5
12	1162.28	429.61-2100.88	1530.7	767.44-2517.76	1982.46	1184.21-2951.87

Table 55. Arklow Bank. Design-based estimates of Herring gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3.33	0-10	3.33	0-10	10	0-26.67
2	5	0-17.5	10	0-30	12.5	0-35
3	2.5	0-7.5	10	0-22.56	22.5	2.5-52.5
4	5	0-12.5	7.5	0-20	7.5	0-20
5	0	0-0	7.5	0-20	10	0-22.5
6	0	0-0	5	0-15	10	0-27.5
7	0	0-0	5	0-12.5	10	0-25
8	7.5	0-20	7.5	0-20	12.5	0-32.5
9	0	0-0	0	0-0	6.67	0-20
10	0	0-0	0	0-0	3.33	0-10
11	10	0-26.67	23.33	0-56.75	36.67	0-90.08
12	0	0-0	0	0-0	3.33	0-10

Table 56. Arklow Bank. Design-based estimates of Herring gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	0	0-0	0	0-0	6.67	0-20
2	2.5	0-7.5	7.5	0-20	10	0-27.5
3	2.5	0-7.5	10	0-25	12.5	2.5-27.5
4	5	0-12.5	7.5	0-20	7.5	0-20
5	0	0-0	0	0-0	2.5	0-7.5
6	0	0-0	2.5	0-7.56	2.5	0-7.5
7	0	0-0	5	0-12.5	10	0-25
8	7.5	0-20	7.5	0-20	12.5	0-32.5
9	0	0-0	0	0-0	6.67	0-20
10	0	0-0	0	0-0	3.33	0-10
11	3.33	0-10	10	0-30	23.33	0-66.67
12	0	0-0	0	0-0	3.33	0-10

Table 57. Arklow Bank. Design-based estimates of Herring gull abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3.33	0-10	3.33	0-10	3.33	0-10
2	2.5	0-7.5	2.5	0-7.5	2.5	0-7.5
3	0	0-0	0	0-0	10	0-30
4	0	0-0	0	0-0	0	0-0
5	0	0-0	7.5	0-20	7.5	0-20
6	0	0-0	2.5	0-7.5	7.5	0-22.5
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	0	0-0	0	0-0	0	0-0
11	6.67	0-20	13.33	0-36.67	13.33	0-36.67
12	0	0-0	0	0-0	0	0-0

Table 58. Arklow Bank. Design-based estimates of Kittiwake abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3790	1289.17-6940.5	3883.33	1289.17-6946.92	3970	1466.33-7253.33
2	4002.5	1524.31-6885.88	4075	1661.94-6968.69	4127.5	1712.06-7052.5
3	3540	839.5-7565.19	3682.5	969.44-7761.75	3827.5	1104.62-7815.62
4	3077.5	1487.31-5222.81	3732.5	1972.31-5938.06	4000	2234.5-6183.12
5	477.5	165-940.25	805	407.5-1330.12	1025	617.5-1545.12
6	337.5	134.94-607.5	412.5	202.44-705	510	250-852.56
7	130	40-245	352.5	157.5-605.12	487.5	245-830.06
8	372.5	67.44-805.31	420	117.44-850.06	515	177.5-970.31
9	53.33	3.33-113.33	106.67	40-190	173.33	79.92-286.75
10	1023.33	153.25-2520.17	1246.67	280-2840.42	1283.33	286.58-2880.17
11	2166.67	316.67-4714.67	2483.33	529.92-5423.83	2636.67	703.17-5320.33
12	1860	599.42-3636.67	3020	819.83-6370.67	3083.33	839.58-6334.08

Table 59. Arklow Bank. Design-based estimates of Kittiwake abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	803.33	313.25-1450.25	883.33	363.25-1520.17	950	436.67-1613.5
2	2717.5	1047.38-4725.19	2765	1142.44-4777.88	2807.5	1259.75-4920.12
3	740	299.88-1307.56	822.5	344.88-1385.12	947.5	459.88-1535.12
4	557.5	290-902.56	882.5	532.44-1287.56	1047.5	667.44-1467.62
5	182.5	72.44-332.56	350	187.5-542.56	482.5	307.44-682.56
6	162.5	69.94-287.5	232.5	122.5-365.06	290	155-457.62
7	70	15-150	142.5	57.5-242.56	205	105-320.12
8	57.5	17.5-117.5	92.5	35-162.56	152.5	80-237.5
9	50	3.33-113.33	100	33.33-183.33	156.67	70-270
10	186.67	70-343.42	320	159.92-536.75	353.33	183.33-573.33
11	390	133.25-756.83	630	286.58-1090	683.33	316.58-1153.58
12	1233.33	290-2656.75	1320	370-2733.5	1380	416.5-2884.08

Table 60. Arklow Bank. Design-based estimates of Kittiwake abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	2986.67	839.33-5800.67	3000	886.58-5804.25	3020	879.92-5575.17
2	1285	422.38-2405.25	1310	449.69-2412.75	1320	522.44-2447.75
3	2800	459.88-6488.12	2860	549.94-6475.44	2880	549.94-6405.81
4	2520	1054.88-4545.25	2850	1339.88-4898.06	2952.5	1414.94-4990.88
5	295	54.94-652.56	455	165-900.19	542.5	237.5-992.62
6	175	47.44-347.5	180	55-362.56	220	70-440
7	60	7.5-130.06	210	57.5-432.56	282.5	84.94-555.12
8	315	42.44-697.56	327.5	54.88-685.31	362.5	87.44-750
9	3.33	0-10	6.67	0-20	13.33	0-36.67
10	836.67	43.33-2296.67	926.67	63.25-2420	930	56.67-2430.08
11	1776.67	193-4260.75	1853.33	186.5-4713.42	1953.33	283.25-4546.83
12	626.67	123.25-1370.17	1700	186.58-4228.42	1703.33	189.92-4136.83

Table 61. Arklow Bank. Design-based estimates of Lesser black-backed gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	0	0-0	0	0-0	0	0-0
2	0	0-0	0	0-0	0	0-0
3	7.5	0-20	12.5	0-32.5	25	0-67.5
4	0	0-0	0	0-0	3.33	0-13.33
5	0	0-0	0	0-0	0	0-0
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	3.33	0-10
8	0	0-0	0	0-0	7.5	0-22.5
9	0	0-0	0	0-0	0	0-0
10	0	0-0	0	0-0	0	0-0
11	0	0-0	5	0-15	5	0-15
12	0	0-0	0	0-0	0	0-0

Table 62. Arklow Bank. Design-based estimates of Lesser black-backed gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	0	0-0	0	0-0	0	0-0
2	0	0-0	0	0-0	0	0-0
3	7.5	0-20	12.5	0-30.06	25	0-70
4	0	0-0	0	0-0	3.33	0-10
5	0	0-0	0	0-0	0	0-0
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	7.5	0-20
9	0	0-0	0	0-0	0	0-0
10	0	0-0	0	0-0	0	0-0
11	0	0-0	0	0-0	0	0-0
12	0	0-0	0	0-0	0	0-0

Table 63. Arklow Bank. Design-based estimates of Lesser black-backed gull abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	0	0-0	0	0-0	0	0-0
2	0	0-0	0	0-0	0	0-0
3	0	0-0	0	0-0	0	0-0
4	0	0-0	0	0-0	0	0-0
5	0	0-0	0	0-0	0	0-0
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	3.33	0-10
8	0	0-0	0	0-0	0	0-0
9	0	0-0	0	0-0	0	0-0
10	0	0-0	0	0-0	0	0-0
11	0	0-0	5	0-15	5	0-15
12	0	0-0	0	0-0	0	0-0

Table 64. Arklow Bank. Design-based estimates of Little gull abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	1006.67	66.67-2420.42	1010	76.67-2390	1023.33	83.33-2376.92
Feb	357.5	50-877.62	365	52.44-892.56	367.5	52.5-892.62
Mar	126.67	3.33-313.33	193.33	50-406.75	203.33	60-423.33
Apr	25	0-60	30	0-75	30	0-70
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	20	0-55	20	0-50.12
Aug	25	0-65	30	5-65	35	10-75
Sep	173.33	6.67-420	203.33	30-456.67	236.67	49.92-543.33
Oct	473.33	80-1010.17	550	133.25-1120.17	570	150-1140
Nov	760	260-1383.67	783.33	286.67-1436.92	936.67	396.58-1646.75
Dec	1140	226.67-2313.75	1336.67	240-2810.5	1343.33	239.92-2817.17

Table 65. Arklow Bank. Design-based estimates of Little gull abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	766.67	76.67-1820	770	63.33-1783.67	783.33	90-1790.42
Feb	145	32.5-315	150	30-335.06	150	32.5-335
Mar	90	0-223.33	136.67	40-276.75	140	43.33-276.67
Apr	5	0-20	10	0-25	10	0-25
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	20	0-55	20	0-55
Aug	25	0-60	25	0-60	30	5-65
Sep	113.33	3.33-313.42	136.67	13.33-336.67	156.67	30-373.33
Oct	206.67	29.92-476.67	276.67	66.67-610	293.33	73.33-623.5
Nov	506.67	130-1023.5	520	156.58-1023.42	553.33	179.92-1070.08
Dec	1066.67	213.25-2150.33	1166.67	219.92-2453.42	1173.33	213.33-2526.92

Table 66. Arklow Bank. Design-based estimates of Little gull abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	240	0-640.17	240	0-600.33	240	0-623.5
Feb	212.5	5-592.5	215	7.5-595.12	217.5	10-602.69
Mar	36.67	0-110	56.67	3.33-153.33	63.33	6.67-163.33
Apr	20	0-45	20	0-50	20	0-45
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	5	0-15	5	0-15
Sep	60	0-150	66.67	3.33-166.75	80	3.33-203.33
Oct	266.67	16.67-666.75	273.33	20-683.42	276.67	26.67-723.42
Nov	253.33	70-486.67	263.33	73.33-496.75	383.33	123.25-686.75
Dec	70	0-180.08	166.67	6.67-413.33	166.67	6.67-410.17

Table 67. Arklow Bank. Design-based estimates of Manx shearwater abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	5	0-15
Apr	240	49.94-512.5	460	177.5-867.56	740	372.5-1227.5
May	287.5	12.5-770.06	1120	254.94-2415.38	1907.5	774.75-3410.5
Jun	292.5	65-615.12	452.5	147.44-887.5	567.5	234.94-1030.19
Jul	92.5	12.5-207.5	262.5	82.5-525.06	912.5	267.38-1840.38
Aug	520	82.5-1140.19	805	254.81-1482.56	1135	457.5-2020.44
Sep	93.33	3.33-283.33	186.67	33.25-416.67	260	86.67-506.67
Oct	0	0-0	10	0-40	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 68. Arklow Bank. Design-based estimates of Manx shearwater abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	5	0-15
Apr	70	22.5-127.5	210	95-365.06	320	157.5-545.06
May	27.5	0-70	322.5	77.5-710.25	645	260-1175.06
Jun	195	27.44-467.56	287.5	85-610	380	145-798
Jul	70	10-160	150	60-280	337.5	105-725
Aug	22.5	0-62.5	112.5	30-245	180	77.5-327.5
Sep	16.67	3.33-36.67	73.33	20-153.33	120	43.33-216.67
Oct	0	0-0	10	0-30	10	0-30
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 69. Arklow Bank. Design-based estimates of Manx shearwater abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	170	15-415.06	250	42.5-537.5	420	155-757.5
May	260	7.5-732.62	797.5	84.88-1927.56	1262.5	395-2548.25
Jun	97.5	5-230.06	165	17.5-390.06	187.5	22.5-397.62
Jul	22.5	0-60	112.5	5-280	575	75-1365.25
Aug	497.5	80-1102.69	692.5	209.94-1367.56	955	309.81-1783.06
Sep	76.67	0-230	113.33	0-300	140	6.67-343.42
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 70. Arklow Bank. Design-based estimates of Puffin abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	10	0-30	10	0-30	10	0-30
Mar	20	0-50	20	0-50	20	0-50
Apr	0	0-0	0	0-0	15	0-40
May	5	0-15	15	0-35	40	10-80
Jun	3.33	0-10	10	0-30	16.67	0-46.67
Jul	5	0-15	17.5	0-42.5	45	7.5-102.5
Aug	5	0-15	12.5	0-32.5	42.5	4.94-102.56
Sep	0	0-0	0	0-0	10	0-30
Oct	10	0-30	10	0-30	10	0-30
Nov	0	0-0	5	0-15	5	0-15
Dec	0	0-0	0	0-0	0	0-0

Table 71. Arklow Bank. Design-based estimates of Puffin abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	3.33	0-10	3.33	0-10	3.33	0-10
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 72. Arklow Bank. Design-based estimates of Puffin abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	10	0-30	10	0-30	10	0-30
Mar	20	0-50	20	0-50	20	0-50
Apr	0	0-0	0	0-0	15	0-40
May	5	0-15	15	0-35	40	10-80
Jun	0	0-0	6.67	0-20	13.33	0-40
Jul	5	0-15	17.5	0-40	45	5-102.5
Aug	5	0-15	12.5	0-32.5	42.5	2.5-102.5
Sep	0	0-0	0	0-0	10	0-30
Oct	10	0-30	10	0-30	10	0-30
Nov	0	0-0	5	0-15	5	0-15
Dec	0	0-0	0	0-0	0	0-0

Table 73. Arklow Bank. Design-based estimates of Razorbill abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	2975.9	1353.01-5205.32	3341.37	1614.25-5591.26	3393.58	1650.4-5635.14
2	1204.82	409.49-2292.16	1430.72	584.19-2539.46	1530.12	668.45-2698.95
3	319.28	108.44-584.41	430.72	201.8-698.94	524.1	274.02-840.43
4	207.83	90.36-364.46	424.7	237.95-662.65	590.36	355.2-873.64
5	159.64	24.1-361.6	487.95	231.93-816.26	716.86	409.64-1102.41
6	30.12	0-84.34	75.3	24.1-147.82	96.39	39.08-177.71
7	75.3	21.09-144.73	334.34	192.77-512.05	740.96	517.92-1018.15
8	804.22	273.95-1623.64	2024.1	1204.82-3081.48	3759.04	2542.02-5187.42
9	546.18	261.04-923.9	2570.28	1642.47-3586.64	4550.2	3272.79-5964.56
10	385.54	168.68-698.8	634.54	345.38-984.03	843.37	542.17-1225
11	1180.72	505.82-2169.08	1602.41	815.26-2566.57	2116.47	1216.66-3261.54
12	2204.82	610.44-4390.86	2558.23	799.09-4984.34	2738.96	995.38-5048.19

Table 74. Arklow Bank. Design-based estimates of Razorbill abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	124.5	12.05-293.27	164.66	28.11-349.5	168.67	36.15-357.43
2	96.39	18.07-198.87	141.57	45.18-274.1	186.74	72.29-328.32
3	12.05	0-30.12	24.09	3.01-48.19	45.18	6.03-99.4
4	24.1	0-66.26	36.15	3.01-87.35	51.2	9.04-111.45
5	0	0-0	9.04	0-27.11	33.13	0-90.36
6	0	0-0	6.03	0-15.06	12.05	0-33.21
7	6.03	0-18.07	6.03	0-18.07	9.04	0-27.11
8	0	0-0	0	0-0	0	0-0
9	0	0-0	12.05	0-28.11	28.11	8.03-56.22
10	68.27	4.02-160.64	112.45	20.08-249.1	124.5	24.1-269.07
11	100.4	24.1-204.82	116.47	20.08-236.95	136.55	40.16-265.16
12	108.43	28.11-212.85	116.46	32.13-220.98	136.55	44.18-273.09

Table 75. Arklow Bank. Design-based estimates of Razorbill abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	2851.41	1252.81-5004.62	3176.71	1542.07-5345.78	3224.9	1586.15-5397.99
2	1108.43	331.25-2139.08	1289.15	469.88-2352.56	1343.37	517.84-2446.01
3	307.23	93.37-560.32	406.63	186.75-665.74	478.91	237.95-768.07
4	183.74	72.29-310.24	388.56	213.78-596.46	539.16	322.29-792.17
5	159.64	30.12-361.44	478.92	225.9-828.39	683.73	388.48-1072.44
6	30.12	0-93.38	69.28	21.09-135.54	84.33	33.13-156.7
7	69.28	18.07-129.52	328.31	186.75-497.06	731.93	506.02-994.05
8	804.22	265.06-1653.76	2024.1	1186.67-3000.38	3759.04	2617.4-5183.81
9	546.18	257.03-899.6	2558.23	1610.14-3570.68	4522.09	3280.92-5960.14
10	317.27	120.48-582.33	522.09	277.11-831.53	718.88	429.72-1076.41
11	1080.32	389.46-2032.13	1485.94	730.72-2534.54	1979.92	1128.41-3080.52
12	2096.39	493.68-4249.2	2441.77	686.34-4892.17	2602.41	855.22-4964.16

Table 76. Arklow Bank. Design-based estimates of Red-throated diver abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	163.33	60-300	183.33	70-323.33	200	83.33-346.67
Feb	102.5	32.5-195.06	132.5	50-232.5	142.5	59.94-250
Mar	77.5	27.5-135.06	100	42.5-170	110	50-187.5
Apr	127.5	32.5-257.56	140	47.44-270	152.5	52.5-302.5
May	56.67	13.33-113.42	66.67	20-126.67	73.33	23.33-140
Jun	10	0-30	10	0-30	10	0-30
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	5	0-15	5	0-15	5	0-15
Oct	40	3.33-90	40	3.33-90.08	40	3.33-86.67
Nov	16.67	3.33-36.67	23.33	3.33-50	36.67	6.67-80
Dec	90	33.33-156.67	106.67	50-180	143.33	66.67-236.67

Table 77. Arklow Bank. Design-based estimates of Red-throated diver abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	3.33	0-10	3.33	0-10
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	3.33	0-10
Dec	0	0-0	0	0-0	3.33	0-10

Table 78. Arklow Bank. Design-based estimates of Red-throated diver abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	163.33	56.67-296.67	180	70-326.67	196.67	83.25-336.75
Feb	102.5	30-195.06	132.5	55-232.5	142.5	60-242.56
Mar	77.5	27.5-135	100	42.44-172.5	110	52.5-182.5
Apr	127.5	32.5-262.62	140	47.5-272.5	152.5	55-290.06
May	56.67	13.33-113.42	66.67	20-130	73.33	23.33-136.67
Jun	10	0-30	10	0-30	10	0-30
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	5	0-15	5	0-15	5	0-15
Oct	40	3.33-90	40	6.67-86.67	40	3.33-90
Nov	16.67	3.33-40	23.33	3.33-50	33.33	3.33-76.67
Dec	90	36.67-153.33	106.67	50-176.67	140	66.67-223.33

Table 79. Arklow Bank. Design-based estimates of Roseate Tern abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	20	0-60	20	0-60
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 80. Arklow Bank. Design-based estimates of Roseate Tern abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	20	0-60	20	0-60
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 81. Arklow Bank. Design-based estimates of Roseate Tern abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 82. Arklow Bank. Design-based estimates of Sandwich tern abundance in flight and on the sea in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	7.5	0-22.5	15	2.5-35
May	5	0-15	5	0-15	5	0-15
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	10	0-26.67
Aug	3.33	0-10	10	0-26.67	16.67	3.33-36.67
Sep	10	0-23.33	10	0-23.33	10	0-23.33
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 83. Arklow Bank. Design-based estimates of Sandwich tern abundance in flight only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	7.5	0-22.5	15	0-32.5
May	5	0-15	5	0-15	5	0-15
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	10	0-26.67
Aug	3.33	0-10	10	0-26.67	16.67	3.33-36.67
Sep	10	0-23.33	10	0-23.33	10	0-23.33
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 84. Arklow Bank. Design-based estimates of Sandwich tern abundance on the sea only in the entire consent area and buffer zones.

	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
Month	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
Jan	0	0-0	0	0-0	0	0-0
Feb	0	0-0	0	0-0	0	0-0
Mar	0	0-0	0	0-0	0	0-0
Apr	0	0-0	0	0-0	0	0-0
May	0	0-0	0	0-0	0	0-0
Jun	0	0-0	0	0-0	0	0-0
Jul	0	0-0	0	0-0	0	0-0
Aug	0	0-0	0	0-0	0	0-0
Sep	0	0-0	0	0-0	0	0-0
Oct	0	0-0	0	0-0	0	0-0
Nov	0	0-0	0	0-0	0	0-0
Dec	0	0-0	0	0-0	0	0-0

Table 85. Arklow Bank. Design-based estimates of Shag abundance in flight and on the sea in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	46.67	10-100	46.67	10-100	46.67	10-96.67
2	57.5	5-132.5	57.5	5-135	57.5	5-137.5
3	50	6.67-120	50	6.67-120	50	10-120
4	3.33	0-10	3.33	0-10	3.33	0-10
5	6.67	0-16.67	10	0-23.33	20	3.33-43.33
6	3.33	0-10	3.33	0-10	6.67	0-16.67
7	0	0-0	0	0-0	3.33	0-10
8	16.67	0-43.33	16.67	0-40	26.67	0-70
9	0	0-0	20	0-60	20	0-55.12
10	10	0-30	10	0-30	10	0-30
11	16.67	0-43.33	16.67	0-40	16.67	0-40.08
12	30	0-73.42	36.67	0-86.67	36.67	0-86.83

Table 86. Arklow Bank. Design-based estimates of Shag abundance in flight only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	3.33	0-10	3.33	0-10	3.33	0-10
2	2.5	0-7.5	2.5	0-7.5	2.5	0-7.5
3	16.67	0-50	16.67	0-50	16.67	0-50
4	0	0-0	0	0-0	0	0-0
5	3.33	0-10	6.67	0-16.67	10	0-26.67
6	0	0-0	0	0-0	0	0-0
7	0	0-0	0	0-0	0	0-0
8	0	0-0	0	0-0	3.33	0-10
9	0	0-0	20	0-60	20	0-55.12
10	0	0-0	0	0-0	0	0-0
11	0	0-0	0	0-0	0	0-0
12	0	0-0	6.67	0-20	6.67	0-20

Table 87. Arklow Bank. Design-based estimates of Shag abundance on the sea only in the entire consent area and buffer zones.

Month	Abundance					
	Wind farm		Wind farm & 2km buffer		Wind farm and 4km buffer	
	Abundance	95% c.i.	Abundance	95% c.i.	Abundance	95% c.i.
1	43.33	6.67-93.33	43.33	6.67-93.33	43.33	6.67-93.33
2	55	2.5-127.5	55	2.5-125.12	55	2.5-132.5
3	33.33	6.67-70	33.33	6.67-66.67	33.33	6.67-66.75
4	3.33	0-10	3.33	0-10	3.33	0-10
5	3.33	0-10	3.33	0-10	10	0-26.67
6	3.33	0-10	3.33	0-10	6.67	0-16.67
7	0	0-0	0	0-0	3.33	0-13.33
8	16.67	0-43.33	16.67	0-43.33	23.33	0-60
9	0	0-0	0	0-0	0	0-0
10	10	0-33.33	10	0-30	10	0-30
11	16.67	0-40	16.67	0-40	16.67	0-43.33
12	30	0-73.33	30	0-73.33	30	0-73.33

## REFERENCES

Allen, S. (2013) JNCC expert statement on ornithological issues for written representations in respect of East Anglia One offshore windfarm.