



# **Sporad na Mara Offshore Wind Farm**

## **Offshore Project**

### **Environmental Impact Assessment Report**

#### **Annex 14.1.1: Apportioned Abundance Estimates**

#### **Turbine Area Plus Buffers, Volume 2c**

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# 1 ANNEX 14.1.1 APPORTIONED ABUNDANCE ESTIMATES TURBINE AREA PLUS BUFFERS

## 1.1 INTRODUCTION

1.1.1.1 This annex is intended to support the **Appendix 14.1: Ornithology Baseline Report, Volume 2c**.

The tables in this annex set out the design-based abundance and density estimates for the following species:

- Curlew;
- Kittiwake;
- Black-headed gull;
- Common gull;
- Great black-backed gull;
- Herring gull;
- Arctic tern;
- Great skua;
- Arctic skua;
- Guillemot;
- Razorbill;
- Black guillemot;
- Puffin;
- Red-throated diver;
- Great northern diver;
- Fulmar;
- Manx shearwater;
- Sooty shearwater;
- Gannet.

1.1.1.2 When a species was recorded during the site-specific surveys, design-based abundance and density estimates are given for the following areas:

- Turbine Area;
- Turbine Area plus 2 km buffer;
- Turbine Area plus 4 km buffer.

## 1.2 CURLEW

Table 1-1 Curlew Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2023	18	2	72	18.166	<1	0	0	0	-	-	18	2	72	18.166	<1

Table 1-2 Curlew Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2023	0.13	0.01	0.51	0.130	0.00	0.00	0.00	0.000	0.13	0.01	0.51	0.130

Table 1-3 Curlew Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2023	18	2	53	17.274	0.944	0	0	0	-	-	18	2	53	17.274	0.944

Table 1-4 Curlew Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2023	0.07	0.01	0.20	0.066	0.00	0.00	0.00	0.000	0.07	0.01	0.20	0.066

Table 1-5 Curlew Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2023	17	2	52	17.382	0.995	0	0	0	-	-	17	2	52	17.382	0.995

Table 1-6 Curlew Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2023	0.04	0.00	0.13	0.042	0.00	0.00	0.00	0.000	0.04	0.00	0.13	0.042

### 1.3 KITTIWAKE

Table 1-7 Kittiwake Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
April 2022	27	3	63	15.384	0.573	9	1	27	8.585	0.996	18	2	45	12.605	0.691
May 2022	35	4	96	28.316	0.808	27	3	79	26.872	<1	8	1	26	8.465	1
August 2022	8	0	26	8.726	<1	8	0	26	8.726	<1	0	0	0	-	-
September 2022	9	1	26	8.997	0.995	9	1	26	8.997	0.995	0	0	0	-	-
October 2022	262	142	409	71.523	0.273	81	9	178	43.438	0.534	180	80	294	56.049	0.311
November 2022	166	88	265	45.612	0.276	0	0	0	-	-	166	88	265	45.612	0.276
December 2022	45	5	98	23.54	0.519	0	0	0	-	-	45	5	98	23.54	0.519
January 2023	461	344	591	63.192	0.137	44	9	88	20.199	0.456	417	300	547	60.081	0.144
February 2023	149	79	228	37.086	0.248	35	4	88	21.528	0.61	114	61	175	30.31	0.266
March 2023	221	25	615	178.919	0.808	176	20	527	176.775	<1	45	9	97	23.766	0.524
April 2023	18	2	44	12.878	0.725	9	1	27	8.72	<1	9	1	27	9.353	<1
October 2023	18	2	44	12.09	0.689	0	0	0	-	-	18	2	44	12.09	0.689
November 2023	37	4	89	22.88	0.618	0	0	0	-	-	37	4	89	22.88	0.618
December 2023	32	3	72	17.361	0.541	0	0	0	-	-	32	3	72	17.361	0.541
January 2024	9	1	27	9.053	0.996	0	0	0	-	-	9	1	27	9.053	0.996
February 2024	113	52	192	37.315	0.331	26	3	61	14.595	0.572	87	26	157	33.914	0.389

Table 1-8 Kittiwake Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
April 2022	0.19	0.02	0.45	0.110	0.06	0.01	0.19	0.061	0.13	0.01	0.32	0.090
May 2022	0.25	0.03	0.68	0.202	0.19	0.02	0.56	0.192	0.06	0.01	0.19	0.060
August 2022	0.06	0.00	0.19	0.062	0.06	0.00	0.19	0.062	0.00	0.00	0.00	-
September 2022	0.06	0.01	0.19	0.064	0.06	0.01	0.19	0.064	0.00	0.00	0.00	-
October 2022	1.87	1.01	2.92	0.510	0.58	0.06	1.27	0.310	1.28	0.57	2.10	0.400
November 2022	1.18	0.63	1.89	0.325	0.00	0.00	0.00	-	1.18	0.63	1.89	0.325
December 2022	0.32	0.04	0.70	0.168	0.00	0.00	0.00	-	0.32	0.04	0.70	0.168
January 2023	3.29	2.45	4.21	0.451	0.31	0.06	0.63	0.144	2.97	2.14	3.90	0.428
February 2023	1.06	0.56	1.63	0.264	0.25	0.03	0.63	0.154	0.81	0.44	1.25	0.216
March 2023	1.58	0.18	4.39	1.276	1.26	0.14	3.76	1.261	0.32	0.06	0.69	0.169
April 2023	0.13	0.01	0.31	0.092	0.06	0.01	0.19	0.062	0.06	0.01	0.19	0.067
October 2023	0.13	0.01	0.31	0.086	0.00	0.00	0.00	-	0.13	0.01	0.31	0.086
November 2023	0.26	0.03	0.63	0.163	0.00	0.00	0.00	-	0.26	0.03	0.63	0.163
December 2023	0.23	0.02	0.51	0.124	0.00	0.00	0.00	-	0.23	0.02	0.51	0.124
January 2024	0.06	0.01	0.19	0.065	0.00	0.00	0.00	-	0.06	0.01	0.19	0.065
February 2024	0.81	0.37	1.37	0.266	0.19	0.02	0.44	0.104	0.62	0.19	1.12	0.242

Table 1-9 Kittiwake Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	18	2	44	12.229	0.676	0	0	0	-	-	18	2	44	12.229	0.676
April 2022	27	3	62	14.975	0.558	9	1	27	9.14	<1	18	2	44	12.427	0.699
May 2022	43	5	114	28.469	0.667	25	3	105	26.103	<1	18	2	44	12.364	0.682
July 2022	26	0	70	19.797	0.75	17	0	52	17.789	<1	9	0	26	8.836	0.971
August 2022	10	0	26	9.148	0.959	10	0	26	9.148	0.959	0	0	0	-	-
September 2022	9	1	26	8.779	0.99	9	1	26	8.779	0.99	0	0	0	-	-
October 2022	354	195	539	87.69	0.247	89	18	195	44.823	0.505	266	124	424	75.77	0.285
November 2022	246	145	362	54.67	0.222	20	2	65	19.468	0.987	227	132	335	51.173	0.226
December 2022	44	9	97	23.74	0.538	0	0	0	-	-	44	9	97	23.74	0.538
January 2023	951	757	1154	100.247	0.105	140	62	238	47.727	0.34	810	643	986	87.528	0.108
February 2023	402	279	532	65.589	0.163	87	26	166	33.658	0.389	316	209	428	55.958	0.177
March 2023	230	27	604	167.546	0.729	168	20	525	165.01	0.984	62	18	114	26.354	0.425
April 2023	18	2	44	12.194	0.696	9	1	27	8.776	0.994	9	1	27	8.391	0.964
July 2023	26	3	62	21.1	0.592	26	3	62	18.573	0.712	0	0	0	-	-
September 2023	0	0	0	-	-	0	0	0	-	-	0	0	0	-	-
October 2023	27	3	62	15.422	0.576	0	0	0	-	-	27	3	62	15.422	0.576

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	35	4	80	21.552	0.619	0	0	0	-	-	35	4	80	21.552	0.619
December 2023	74	28	128	25.888	0.35	9	0	26	8.812	<1	65	20	117	24.209	0.371
January 2024	8	1	27	8.831	<1	0	0	0	-	-	8	1	27	8.831	<1
February 2024	183	104	278	44.566	0.243	35	9	70	17.046	0.484	148	78	235	41.308	0.279

Table 1-10 Kittiwake Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.07	0.01	0.17	0.047	0.00	0.00	0.00	-	0.07	0.01	0.17	0.047
April 2022	0.10	0.01	0.24	0.057	0.03	0.00	0.10	0.035	0.07	0.01	0.17	0.047
May 2022	0.16	0.02	0.43	0.108	0.10	0.01	0.40	0.099	0.07	0.01	0.17	0.047
July 2022	0.10	0.00	0.27	0.075	0.06	0.00	0.20	0.068	0.03	0.00	0.10	0.034
August 2022	0.04	0.00	0.10	0.035	0.04	0.00	0.10	0.035	0.00	0.00	0.00	-
September 2022	0.03	0.00	0.10	0.033	0.03	0.00	0.10	0.033	0.00	0.00	0.00	-
October 2022	1.35	0.74	2.05	0.334	0.34	0.07	0.74	0.171	1.01	0.47	1.62	0.289
November 2022	0.94	0.55	1.38	0.208	0.08	0.01	0.25	0.074	0.87	0.50	1.28	0.195
December 2022	0.17	0.03	0.37	0.090	0.00	0.00	0.00	-	0.17	0.03	0.37	0.090
January 2023	3.62	2.88	4.40	0.382	0.53	0.24	0.91	0.182	3.09	2.45	3.76	0.334

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
February 2023	1.53	1.06	2.03	0.250	0.33	0.10	0.63	0.128	1.20	0.80	1.63	0.213
March 2023	0.88	0.10	2.30	0.638	0.64	0.08	2.00	0.629	0.24	0.07	0.43	0.100
April 2023	0.07	0.01	0.17	0.046	0.03	0.00	0.10	0.033	0.03	0.00	0.10	0.032
July 2023	0.10	0.01	0.24	0.080	0.10	0.01	0.24	0.071	0.00	0.00	0.00	-
September 2023	0.00	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00	0.00	-
October 2023	0.10	0.01	0.24	0.059	0.00	0.00	0.00	-	0.10	0.01	0.24	0.059
November 2023	0.13	0.02	0.30	0.082	0.00	0.00	0.00	-	0.13	0.02	0.30	0.082
December 2023	0.28	0.11	0.49	0.099	0.03	0.00	0.10	0.034	0.25	0.08	0.45	0.092
January 2024	0.03	0.00	0.10	0.034	0.00	0.00	0.00	-	0.03	0.00	0.10	0.034
February 2024	0.70	0.40	1.06	0.170	0.13	0.03	0.27	0.065	0.56	0.30	0.90	0.157

Table 1-11 Kittiwake Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	35	9	69	17.164	0.495	0	0	0	-	-	35	9	69	17.164	0.495
April 2022	26	3	52	14.263	0.555	9	1	26	8.696	<1	17	2	43	11.935	0.696
May 2022	59	9	130	32.001	0.544	25	3	78	25.525	<1	34	9	69	17.13	0.505
July 2022	34	1	78	20.067	0.594	25	1	69	18.417	0.728	8	0	26	8.575	<1
August 2022	8	0	26	8.441	<1	8	0	26	8.441	<1	0	0	0	-	-
September 2022	113	13	301	79.955	0.709	9	1	26	8.694	0.987	104	12	284	79.514	0.765
October 2022	484	313	670	95.01	0.196	155	52	278	58.501	0.377	328	191	496	76.858	0.234
November 2022	303	190	415	57.81	0.191	19	2	65	19.579	<1	284	173	397	54.616	0.192
December 2022	54	17	113	24.805	0.459	0	0	0	-	-	54	17	113	24.805	0.459
January 2023	1394	1138	1672	135.325	0.097	215	103	345	60.696	0.282	1179	939	1456	123.15	0.104
February 2023	912	668	1181	128.454	0.141	184	86	334	66.585	0.361	727	531	950	111.553	0.153
March 2023	661	120	1505	368.221	0.557	522	61	1341	365.807	0.701	139	60	224	42.484	0.306
April 2023	26	3	61	15.252	0.581	9	1	26	8.728	<1	18	2	43	12.512	0.708
May 2023	26	3	61	14.842	0.569	0	0	0	-	-	26	3	61	14.842	0.569
July 2023	37	4	92	23.25	0.622	28	3	76	21.252	0.749	9	1	26	9.013	0.999
August 2023	5	0	15	4.834	<1	5	0	15	4.834	<1	0	0	0	-	-
September 2023	9	1	26	8.88	<1	0	0	0	-	-	9	1	26	8.88	<1
October 2023	76	17	173	43.524	0.57	42	5	130	40.346	0.957	34	9	78	17.417	0.509
November 2023	63	17	118	26.313	0.417	10	1	35	10.444	<1	53	9	105	24.442	0.462
December 2023	73	27	125	25.111	0.345	9	0	25	8.592	1	64	26	114	23.481	0.365

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
January 2024	18	2	44	12.311	0.682	0	0	0	-	-	18	2	44	12.311	0.682
February 2024	545	392	716	85.412	0.157	136	60	239	46.489	0.342	409	282	554	70.076	0.172

Table 1-12 Kittiwake Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.09	0.02	0.17	0.042	0.00	0.00	0.00	-	0.09	0.02	0.17	0.042
April 2022	0.06	0.01	0.13	0.035	0.02	0.00	0.06	0.021	0.04	0.00	0.11	0.029
May 2022	0.14	0.02	0.32	0.078	0.06	0.01	0.19	0.062	0.08	0.02	0.17	0.042
July 2022	0.08	0.00	0.19	0.049	0.06	0.00	0.17	0.045	0.02	0.00	0.06	0.021
August 2022	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
September 2022	0.28	0.03	0.74	0.195	0.02	0.00	0.06	0.021	0.25	0.03	0.69	0.194
October 2022	1.18	0.76	1.64	0.232	0.38	0.13	0.68	0.143	0.80	0.47	1.21	0.188
November 2022	0.74	0.46	1.01	0.141	0.05	0.00	0.16	0.048	0.69	0.42	0.97	0.133
December 2022	0.13	0.04	0.28	0.061	0.00	0.00	0.00	-	0.13	0.04	0.28	0.061
January 2023	3.41	2.78	4.09	0.331	0.53	0.25	0.84	0.148	2.88	2.29	3.56	0.301
February 2023	2.23	1.63	2.89	0.314	0.45	0.21	0.82	0.163	1.78	1.30	2.32	0.273
March 2023	1.62	0.29	3.68	0.900	1.28	0.15	3.28	0.894	0.34	0.15	0.55	0.104
April 2023	0.06	0.01	0.15	0.037	0.02	0.00	0.06	0.021	0.04	0.00	0.11	0.031
May 2023	0.06	0.01	0.15	0.036	0.00	0.00	0.00	-	0.06	0.01	0.15	0.036

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
July 2023	0.09	0.01	0.22	0.057	0.07	0.01	0.19	0.052	0.02	0.00	0.06	0.022
August 2023	0.01	0.00	0.04	0.012	0.01	0.00	0.04	0.012	0.00	0.00	0.00	-
September 2023	0.02	0.00	0.06	0.022	0.00	0.00	0.00	-	0.02	0.00	0.06	0.022
October 2023	0.19	0.04	0.42	0.106	0.10	0.01	0.32	0.099	0.08	0.02	0.19	0.043
November 2023	0.15	0.04	0.29	0.064	0.02	0.00	0.09	0.026	0.13	0.02	0.26	0.060
December 2023	0.18	0.07	0.31	0.061	0.02	0.00	0.06	0.021	0.16	0.06	0.28	0.057
January 2024	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-	0.04	0.00	0.11	0.030
February 2024	1.33	0.96	1.75	0.209	0.33	0.15	0.58	0.114	1.00	0.69	1.35	0.171

## 1.4 BLACK-HEADED GULL

Table 1-13 Black-Headed Gull Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	9	1	26	8.573	0.984	0	0	0	-	-	9	1	26	8.573	0.984

Table 1-14: Black-headed Gull Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2022	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-	0.02	0.00	0.06	0.021

## 1.5 COMMON GULL

Table 1-15 Common Gull Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	9	1	36	16	0.598	0	0	0	-	-	9	1	36	9.372	<1

Table 1-16: Common Gull Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2023	0.03	0.00	0.14	0.061	0.00	0.00	0.00	-	0.03	0.00	0.14	0.036

Table 1-17 Common Gull Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2023	8	1	26	8.551	<1	8	1	26	8.551	<1	0	0	0	-	-
November 2023	18	2	44	12.297	0.679	0	0	0	-	-	18	2	44	12.297	0.679
December 2023	0	0	1	0.325	1	0	0	1	0.325	1	0	0	0	-	-

Table 1-18 Common Gull Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.0209	0.00	0.00	0.00	-
November 2023	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-	0.04	0.00	0.11	0.030
December 2023	0.00	0.00	0.00	0.001	0.00	0.00	0.00	0.0008	0.00	0.00	0.00	-

## 1.6 GREAT BLACK-BACKED GULL

Table 1-19 Great Black-backed Gull Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	9	1	27	8.702	0.982	9	1	27	8.702	0.982	0	0	0	-	-
November 2022	33	3	71	17.626	0.535	24	2	59	15.201	0.628	9	1	35	8.75	<1
October 2023	9	1	26	8.797	<1	9	1	26	8.797	<1	0	0	0	-	-
November 2023	18	2	45	12.319	0.684	18	2	45	12.319	0.684	0	0	0	-	-
December 2023	19	2	48	13.412	0.72	9	1	27	8.189	0.954	10	1	35	10.525	<1

Table 1-20 Great Black-backed Gull Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2022	0.06	0.01	0.19	0.062	0.06	0.01	0.19	0.062	0.00	0.00	0.00	-
November 2022	0.24	0.02	0.51	0.126	0.17	0.01	0.42	0.108	0.06	0.01	0.25	0.062
October 2023	0.06	0.01	0.19	0.063	0.06	0.01	0.19	0.063	0.00	0.00	0.00	-
November 2023	0.13	0.01	0.32	0.088	0.13	0.01	0.32	0.088	0.00	0.00	0.00	-
December 2023	0.14	0.01	0.34	0.096	0.06	0.01	0.19	0.058	0.07	0.01	0.25	0.075

Table 1-21 Great Black-backed Gull Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	9	1	27	8.943	<1	9	1	27	8.943	<1	0	0	0	-	-
November 2022	48	9	103	23.883	0.498	39	4	88	22.347	0.577	9	1	26	8.96	0.972
February 2023	9	1	26	8.701	0.991	0	0	0	-	-	9	1	26	8.701	0.991
October 2023	9	1	26	9.113	0.968	9	1	26	9.113	0.968	0	0	0	-	-
November 2023	36	9	71	17.12	0.479	36	9	71	17.12	0.479	0	0	0	-	-
December 2023	19	2	46	13.072	0.697	9	1	26	8.95	0.993	10	1	31	9.572	0.981
January 2024	9	1	27	8.971	0.987	0	0	0	-	-	9	1	27	8.971	0.987

Table 1-22 Great Black-backed Gull Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2022	0.03	0.00	0.10	0.034	0.03	0.00	0.10	0.034	0.00	0.00	0.00	-
November 2022	0.18	0.03	0.39	0.091	0.15	0.02	0.34	0.085	0.03	0.00	0.10	0.034
February 2023	0.03	0.00	0.10	0.033	0.00	0.00	0.00	-	0.03	0.00	0.10	0.033
October 2023	0.03	0.00	0.10	0.035	0.03	0.00	0.10	0.035	0.00	0.00	0.00	-
November 2023	0.14	0.03	0.27	0.065	0.14	0.03	0.27	0.065	0.00	0.00	0.00	-
December 2023	0.07	0.01	0.18	0.050	0.03	0.00	0.10	0.034	0.04	0.00	0.12	0.036
January 2024	0.03	0.00	0.10	0.034	0.00	0.00	0.00	-	0.03	0.00	0.10	0.034

Table 1-23 Great Black-backed Gull Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	8	1	26	8.428	<1	8	1	26	8.428	<1	0	0	0	-	-
November 2022	65	19	125	26.355	0.403	48	10	101	23.198	0.48	17	2	43	12.562	0.733
December 2022	18	2	52	17.086	0.954	18	2	52	17.086	0.954	0	0	0	-	-
January 2023	26	2	60	14.917	0.564	17	1	43	11.915	0.698	9	1	26	8.817	0.938
February 2023	17	2	43	12.308	0.709	0	0	0	-	-	17	2	43	12.308	0.709
October 2023	8	1	26	8.684	<1	8	1	26	8.684	<1	0	0	0	-	-
November 2023	41	9	87	20.129	0.485	41	9	87	20.129	0.485	0	0	0	-	-
December 2023	26	3	61	15.769	0.599	17	2	43	12.382	0.726	9	1	29	9.221	0.995
January 2024	18	2	44	12.286	0.688	0	0	0	-	-	18	2	44	12.286	0.688

Table 1-24 Great Black-backed Gull Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2022	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
November 2022	0.16	0.05	0.31	0.064	0.12	0.02	0.25	0.057	0.04	0.00	0.11	0.031
December 2022	0.04	0.00	0.13	0.042	0.04	0.00	0.13	0.042	0.00	0.00	0.00	-
January 2023	0.06	0.00	0.15	0.036	0.04	0.00	0.11	0.029	0.02	0.00	0.06	0.022
February 2023	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-	0.04	0.00	0.11	0.030
October 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
November 2023	0.10	0.02	0.21	0.049	0.10	0.02	0.21	0.049	0.00	0.00	0.00	-
December 2023	0.06	0.01	0.15	0.039	0.04	0.00	0.11	0.030	0.02	0.00	0.07	0.023
January 2024	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-	0.04	0.00	0.11	0.030

## 1.7 HERRING GULL

Table 1-25 Herring Gull Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	26	3	72	18.951	0.734	0	0	0	-	-	26	3	72	18.951	0.734

Table 1-26 Herring Gull Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2023	0.19	0.02	0.51	0.135	0.00	0.00	0.00	-	0.19	0.02	0.51	0.135

Table 1-27 Herring Gull Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2022	9	1	26	8.943	<1	0	0	0	-	-	9	1	26	8.943	<1
October 2023	9	1	26	8.511	0.998	0	0	0	-	-	9	1	26	8.511	0.998
November 2023	27	3	71	20.59	0.765	0	0	0	-	-	27	3	71	20.59	0.765

Table 1-28 Herring Gull Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2022	0.03	0.00	0.10	0.034	0.00	0.00	0.00	-	0.03	0.00	0.10	0.034
October 2023	0.03	0.00	0.10	0.032	0.00	0.00	0.00	-	0.03	0.00	0.10	0.032
November 2023	0.10	0.01	0.27	0.078	0.00	0.00	0.00	-	0.10	0.01	0.27	0.078

Table 1-29 Herring Gull Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2022	8	1	26	8.462	<1	0	0	0	-	-	8	1	26	8.462	<1
October 2023	8	1	26	8.171	0.984	0	0	0	-	-	8	1	26	8.171	0.984
November 2023	26	3	70	18.455	0.705	0	0	0	-	-	26	3	70	18.455	0.705

Table 1-30 Herring Gull Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2022	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-	0.02	0.00	0.06	0.021
October 2023	0.02	0.00	0.06	0.020	0.00	0.00	0.00	-	0.02	0.00	0.06	0.020
November 2023	0.06	0.01	0.17	0.045	0.00	0.00	0.00	-	0.06	0.01	0.17	0.045

## 1.8 ARCTIC TERN

Table 1-31 Arctic Tern Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2022	204	23	578	182.076	0.892	0	0	0	-	-	204	23	578	182.076	0.892
June 2022	17	2	52	17.175	0.988	0	0	0	-	-	17	2	52	17.175	0.988
July 2022	106	18	254	66.129	0.624	0	0	0	-	-	106	18	254	66.129	0.624
August 2023	9	1	35	9.145	0.991	0	0	0	-	-	9	1	35	9.145	0.991

Table 1-32 Arctic Tern Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2022	1.45	0.16	4.12	1.2985	0.00	0.00	0.00	-	1.45	0.16	4.12	1.2985
June 2022	0.12	0.01	0.37	0.1225	0.00	0.00	0.00	-	0.12	0.01	0.37	0.1225
July 2022	0.76	0.13	1.81	0.4716	0.00	0.00	0.00	-	0.76	0.13	1.81	0.4716
August 2023	0.06	0.01	0.25	0.0652	0.00	0.00	0.00	-	0.06	0.01	0.25	0.0652

Table 1-33 Arctic Tern Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2022	229	25	596	176.869	0.774	0	0	0	-	-	229	25	596	176.869	0.774
June 2022	16	2	52	16.628	<1	0	0	0	-	-	16	2	52	16.628	<1
July 2022	235	52	490	109.442	0.465	0	0	0	-	-	235	52	490	109.442	0.465
July 2023	143	44	284	61.614	0.43	0	0	0	-	-	143	44	284	61.614	0.43
August 2023	9	1	26	8.573	0.966	0	0	0	-	-	9	1	26	8.573	0.966

Table 1-34 Arctic Tern Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2022	0.87	0.10	2.27	0.674	0.00	0.00	0.00	-	0.87	0.10	2.27	0.674
June 2022	0.06	0.01	0.20	0.063	0.00	0.00	0.00	-	0.06	0.01	0.20	0.063
July 2022	0.90	0.20	1.87	0.417	0.00	0.00	0.00	-	0.90	0.20	1.87	0.417
July 2023	0.54	0.17	1.08	0.235	0.00	0.00	0.00	-	0.54	0.17	1.08	0.235
August 2023	0.03	0.00	0.10	0.033	0.00	0.00	0.00	-	0.03	0.00	0.10	0.033

Table 1-35 Arctic Tern Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
May 2022	230	26	613	173.61	0.756	0	0	0	-	-	230	26	613	173.61	0.756
June 2022	16	2	51	16.642	<1	0	0	0	-	-	16	2	51	16.642	<1
July 2022	478	181	846	173.745	0.364	0	0	0	-	-	478	181	846	173.745	0.364
June 2023	27	3	62	14.75	0.551	0	0	0	-	-	27	3	62	14.75	0.551
July 2023	211	96	358	69.973	0.332	0	0	0	-	-	211	96	358	69.973	0.332
August 2023	44	9	95	21.931	0.499	0	0	0	-	-	44	9	95	21.931	0.499

Table 1-36 Arctic Tern Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2022	0.56	0.06	1.50	0.424	0.00	0.00	0.00	-	0.56	0.06	1.50	0.424
June 2022	0.04	0.00	0.12	0.041	0.00	0.00	0.00	-	0.04	0.00	0.12	0.041
July 2022	1.17	0.44	2.07	0.425	0.00	0.00	0.00	-	1.17	0.44	2.07	0.425
June 2023	0.07	0.01	0.15	0.036	0.00	0.00	0.00	-	0.07	0.01	0.15	0.036
July 2023	0.52	0.23	0.87	0.171	0.00	0.00	0.00	-	0.52	0.23	0.87	0.171
August 2023	0.11	0.02	0.23	0.054	0.00	0.00	0.00	-	0.11	0.02	0.23	0.054

## 1.9 GREAT SKUA

Table 1-37 Great Skua Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	10	1	35	9.363	0.979	10	1	35	9.363	0.979	0	0	0	-	-

Table 1-38 Great Skua Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2022	0.04	0.00	0.13	0.036	0.04	0.00	0.13	0.0357	0.00	0.00	0.00	-

Table 1-39 Great Skua Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
August 2022	9	1	34	8.999	0.989	0	0	0	-	-	9	1	34	8.999	0.989
October 2022	8	1	26	8.348	0.991	8	1	26	8.348	0.991	0	0	0	-	-

Table 1-40 Great Skua Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
August 2022	0.02	0.00	0.08	0.022	0.00	0.00	0.00	-	0.02	0.00	0.08	0.022
October 2022	0.02	0.00	0.06	0.020	0.02	0.00	0.06	0.020	0.00	0.00	0.00	-

## 1.10 ARCTIC SKUA

Table 1-41 Arctic Skua Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
September 2023	8	1	26	8.558	<1	0	0	0	-	-	8	1	26	8.558	<1

Table 1-42 Arctic Skua Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
September 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-	0.02	0.00	0.06	0.021

## 1.11 GUILLEMOT

Table 1-43 Guillemot Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	664	379	1,013	164.418	0.248	585	316	944	160.245	0.274	79	18	152	31.99	0.404
April 2022	158	65	270	52.578	0.332	145	56	258	51.11	0.352	13	1	42	12.087	0.915
May 2022	150	46	287	55.333	0.368	150	46	287	55.333	0.368	0	0	0	-	-
June 2022	11	1	34	11.394	<1	11	1	34	11.394	<1	0	0	0	-	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
July 2022	247	95	439	89.912	0.364	133	48	238	49.983	0.375	114	7	279	73.471	0.646
August 2022	19	0	46	13.189	0.681	19	0	46	13.189	0.681	0	0	0	-	-
September 2022	2,418	1,863	2,998	292.326	0.121	2,418	1,863	2,998	292.326	0.121	0	0	0	-	-
October 2022	202	114	304	49.612	0.246	175	93	268	48.127	0.274	27	3	62	15.303	0.577
November 2022	26	3	71	18.678	0.707						26	3	71	18.678	0.707
December 2022	23	1	58	16.51	0.72	23	1	58	16.51	0.72	0	0	0	-	-
January 2023	106	35	197	44.005	0.416	106	35	197	44.005	0.416	0	0	0	-	-
February 2023	95	36	167	34.025	0.357	95	36	167	34.025	0.357	0	0	0	-	-
March 2023	247	150	366	55.411	0.224	239	138	357	55.121	0.231	9	1	26	8.617	<1
April 2023	177	77	298	57.197	0.323	123	35	233	49.948	0.407	54	10	111	26.004	0.477
May 2023	131	56	217	41.723	0.319	95	36	166	35.181	0.371	36	3	81	21.172	0.584
June 2023	60	12	119	26.437	0.441	60	12	119	26.437	0.441	0	0	0	-	-
July 2023	74	9	159	37.428	0.505	65	4	144	36.533	0.559	9	1	36	8.965	<1
August 2023	287	148	446	76.66	0.267	287	148	446	76.66	0.267	0	0	0	-	-
September 2023	724	416	1,101	172	0.238	724	416	1,101	172	0.238	0	0	0	-	-
October 2023	75	15	143	33.502	0.445	75	15	143	33.502	0.445	0	0	0	-	-
November 2023	12	1	47	12.109	<1	12	1	47	12.109	<1	0	0	0	-	-
December 2023	41	2	85	20.978	0.513	23	1	58	16.58	0.733	18	1	44	12.624	0.69
January 2024	160	66	271	54.657	0.342	160	66	271	54.657	0.342	0	0	0	-	-
February 2024	127	42	225	47.413	0.373	127	42	225	47.413	0.373	0	0	0	-	-

Table 1-44 Guillemot Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	4.74	2.70	7.22	1.173	4.17	2.25	6.73	1.143	0.56	0.13	1.08	0.228
April 2022	1.13	0.46	1.93	0.375	1.03	0.40	1.84	0.364	0.09	0.01	0.30	0.086
May 2022	1.07	0.33	2.05	0.395	1.07	0.33	2.05	0.395	0.00	0.00	0.00	-
June 2022	0.08	0.01	0.24	0.081	0.08	0.01	0.24	0.081	0.00	0.00	0.00	-
July 2022	1.76	0.68	3.13	0.641	0.95	0.34	1.70	0.356	0.81	0.05	1.99	0.524
August 2022	0.14	0.00	0.33	0.094	0.14	0.00	0.33	0.094	0.00	0.00	0.00	-
September 2022	17.24	13.29	21.38	2.085	17.24	13.29	21.38	2.085	0.00	0.00	0.00	-
October 2022	1.44	0.81	2.17	0.354	1.25	0.66	1.91	0.343	0.19	0.02	0.44	-
November 2022	0.19	0.02	0.51	0.133	0.00	0.00	0.00	0.000	0.19	0.02	0.51	0.133
December 2022	0.16	0.01	0.41	0.118	0.16	0.01	0.41	0.118	0.00	0.00	0.00	-
January 2023	0.76	0.25	1.40	0.314	0.76	0.25	1.40	0.314	0.00	0.00	0.00	-
February 2023	0.68	0.26	1.19	0.243	0.68	0.26	1.19	0.243	0.00	0.00	0.00	-
March 2023	1.76	1.07	2.61	0.395	1.70	0.98	2.55	0.393	0.06	0.01	0.19	0.061
April 2023	1.26	0.55	2.13	0.408	0.88	0.25	1.66	0.356	0.39	0.07	0.79	0.185
May 2023	0.93	0.40	1.55	0.298	0.68	0.26	1.18	0.251	0.26	0.02	0.58	0.151
June 2023	0.43	0.09	0.85	0.189	0.43	0.09	0.85	0.189	0.00	0.00	0.00	-
July 2023	0.53	0.06	1.13	0.267	0.46	0.03	1.03	0.261	0.06	0.01	0.26	0.064
August 2023	2.05	1.06	3.18	0.547	2.05	1.06	3.18	0.547	0.00	0.00	0.00	-
September 2023	5.16	2.97	7.85	1.227	5.16	2.97	7.85	1.227	0.00	0.00	0.00	-
October 2023	0.53	0.11	1.02	0.239	0.53	0.11	1.02	0.239	0.00	0.00	0.00	-

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2023	0.09	0.01	0.34	0.086	0.09	0.01	0.34	0.086	0.00	0.00	0.00	-
December 2023	0.29	0.01	0.61	0.150	0.16	0.01	0.41	0.118	0.13	0.01	0.31	0.090
January 2024	1.14	0.47	1.93	0.390	1.14	0.47	1.93	0.390	0.00	0.00	0.00	-
February 2024	0.91	0.30	1.60	0.338	0.91	0.30	1.60	0.338	0.00	0.00	0.00	-

Table 1-45 Guillemot Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	1,670	1,139	2,304	288.994	0.173	1,477	953	2,074	284.886	0.193	193	106	300	49.269	0.255
April 2022	285	132	457	81.906	0.288	203	87	339	65.2	0.321	82	7	186	47.779	0.583
May 2022	330	184	506	81.253	0.246	313	172	483	79.869	0.255	17	2	53	17.276	<1
June 2022	22	2	56	16.512	0.744	22	2	56	16.512	0.744	0	0	0	-	-
July 2022	393	207	617	107.511	0.274	198	84	336	62.065	0.313	194	44	379	87.46	0.45
August 2022	111	24	218	49.265	0.442	111	24	218	49.265	0.442	0	0	0	-	-
September 2022	3815	3113	4543	366.138	0.096	3815	3113	4543	366.138	0.096	0	0	0	-	-
October 2022	316	189	468	70.606	0.223	246	139	371	57.258	0.233	71	18	159	39.602	0.561
November 2022	37	3	87	22.164	0.594	12	0	46	12.085	0.993	25	3	70	18.798	0.748
December 2022	36	2	81	20.439	0.574	36	2	81	20.439	0.574	0	0	0	-	-
January 2023	205	104	323	54.755	0.267	205	104	323	54.755	0.267	0	0	0	-	-
February 2023	206	109	323	53.73	0.26	188	100	294	50.212	0.267	18	2	52	17.426	0.962
March 2023	499	333	677	85.827	0.172	491	332	677	85.116	0.173	9	1	26	8.795	<1
April 2023	372	231	531	73.656	0.198	280	157	420	66.017	0.236	92	33	161	31.87	0.347
May 2023	149	70	238	42.906	0.288	116	46	186	37.373	0.323	33	3	85	22.813	0.691
June 2023	142	57	246	49.918	0.352	142	57	246	49.918	0.352	0	0	0	-	-
July 2023	217	102	352	62.365	0.287	165	70	280	54.765	0.332	52	9	116	28.06	0.538
August 2023	505	325	715	99.815	0.198	505	325	715	99.815	0.198	0	0	0	-	-
September 2023	1308	894	1780	229.463	0.175	1308	894	1780	229.463	0.175	0	0	0	-	-
October 2023	74	3	160	38.264	0.52	74	3	160	38.264	0.52	0	0	0	-	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	23	2	58	16.17	0.706	23	2	58	16.17	0.706	0	0	0	-	-
December 2023	79	23	154	34.197	0.434	61	12	139	31.797	0.524	18	1	44	12.497	0.691
January 2024	394	232	583	88.689	0.225	394	232	583	88.689	0.225	0	0	0	-	-
February 2024	309	174	450	71.834	0.233	309	174	450	71.834	0.233	0	0	0	-	-

Table 1-46 Guillemot Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	6.36	4.34	8.78	1.101	5.63	3.63	7.90	1.086	0.74	0.40	1.14	0.188
April 2022	1.09	0.50	1.74	0.312	0.77	0.33	1.29	0.248	0.31	0.03	0.71	0.182
May 2022	1.26	0.70	1.93	0.310	1.19	0.66	1.84	0.304	0.06	0.01	0.20	0.066
June 2022	0.08	0.01	0.21	0.063	0.08	0.01	0.21	0.063	0.00	0.00	0.00	-
July 2022	1.50	0.79	2.35	0.410	0.75	0.32	1.28	0.237	0.74	0.17	1.44	0.333
August 2022	0.42	0.09	0.83	0.188	0.42	0.09	0.83	0.188	0.00	0.00	0.00	-
September 2022	14.54	11.86	17.31	1.395	14.54	11.86	17.31	1.395	0.00	0.00	0.00	-
October 2022	1.20	0.72	1.78	0.269	0.94	0.53	1.41	0.218	0.27	0.07	0.61	0.151
November 2022	0.14	0.01	0.33	0.084	0.05	0.00	0.18	0.046	0.10	0.01	0.27	0.072
December 2022	0.14	0.01	0.31	0.078	0.14	0.01	0.31	0.078	0.00	0.00	0.00	-
January 2023	0.78	0.40	1.23	0.209	0.78	0.40	1.23	0.209	0.00	0.00	0.00	-
February 2023	0.79	0.42	1.23	0.205	0.72	0.38	1.12	0.191	0.07	0.01	0.20	0.066

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2023	1.90	1.27	2.58	0.327	1.87	1.27	2.58	0.324	0.03	0.00	0.10	0.034
April 2023	1.42	0.88	2.02	0.281	1.07	0.60	1.60	0.252	0.35	0.13	0.61	0.121
May 2023	0.57	0.27	0.91	0.164	0.44	0.18	0.71	0.142	0.13	0.01	0.32	0.087
June 2023	0.54	0.22	0.94	0.190	0.54	0.22	0.94	0.190	0.00	0.00	0.00	-
July 2023	0.83	0.39	1.34	0.238	0.63	0.27	1.07	0.209	0.20	0.03	0.44	0.107
August 2023	1.92	1.24	2.72	0.380	1.92	1.24	2.72	0.380	0.00	0.00	0.00	-
September 2023	4.98	3.41	6.78	0.874	4.98	3.41	6.78	0.874	0.00	0.00	0.00	-
October 2023	0.28	0.01	0.61	0.146	0.28	0.01	0.61	0.146	0.00	0.00	0.00	-
November 2023	0.09	0.01	0.22	0.062	0.09	0.01	0.22	0.062	0.00	0.00	0.00	-
December 2023	0.30	0.09	0.59	0.130	0.23	0.05	0.53	0.121	0.07	0.00	0.17	0.048
January 2024	1.50	0.88	2.22	0.338	1.50	0.88	2.22	0.338	0.00	0.00	0.00	-
February 2024	1.18	0.66	1.71	0.274	1.18	0.66	1.71	0.274	0.00	0.00	0.00	-

Table 1-47 Guillemot Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	2,169	1,618	2,829	308.955	0.142	1,979	1,420	2,626	305.306	0.154	190	102	287	47.595	0.251
April 2022	511	296	783	120.288	0.235	341	177	564	100.428	0.295	170	62	305	61.11	0.359
May 2022	597	374	838	118.784	0.199	571	362	816	117.593	0.206	26	3	69	18.797	0.722
June 2022	33	2	78	19.723	0.601	33	2	78	19.723	0.601	0	0	0	-	-
July 2022	460	253	715	118.158	0.257	266	131	426	75.413	0.284	195	53	399	88.077	0.453
August 2022	352	178	546	91.361	0.26	352	178	546	91.361	0.26	0	0	0	-	-
September 2022	5,759	4,899	6,653	431.988	0.075	5743	4,892	6,637	431.65	0.075	16	1	60	16.592	<1
October 2022	452	308	613	80.6	0.178	348	211	493	69.484	0.2	105	35	200	41.909	0.401
November 2022	144	46	269	55.018	0.383	118	28	226	51.096	0.432	26	3	69	19.519	0.763
December 2022	126	57	217	41.098	0.326	126	57	217	41.098	0.326	0	0	0	-	-
January 2023	402	267	588	79.606	0.198	395	260	576	79.603	0.201	6	0	20	6.434	<1
February 2023	367	238	511	70.956	0.193	333	206	471	66.702	0.2	34	4	86	24.095	0.709
March 2023	996	715	1,311	147.932	0.148	988	707	1296	147.883	0.15	9	1	26	8.78	0.998
April 2023	707	512	915	101.501	0.144	598	415	793	96.451	0.161	109	46	180	34.892	0.321
May 2023	187	99	286	48.8	0.261	146	66	240	43.564	0.299	41	4	95	23.567	0.574
June 2023	314	173	489	79.803	0.254	314	173	489	79.803	0.254	0	0	0	-	-
July 2023	392	204	592	101.07	0.258	257	120	406	73.096	0.284	135	28	285	68.231	0.505
August 2023	1,058	763	1,370	155.923	0.147	1058	763	1370	155.923	0.147	0	0	0	-	-
September 2023	2,708	2,009	3,472	377.265	0.139	2708	2009	3472	377.265	0.139	0	0	0	-	-
October 2023	108	27	201	42.115	0.39	90	20	177	39.931	0.441	18	1	43	12.502	0.714

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	86	23	149	31.153	0.362	69	23	126	26.466	0.386	17	2	52	17.836	<1
December 2023	143	65	228	42.332	0.296	126	57	216	40.979	0.326	17	1	43	11.874	0.688
January 2024	666	441	903	115.257	0.173	666	441	903	115.257	0.173	0	0	0	-	-
February 2024	486	319	685	91.428	0.188	486	319	685	91.428	0.188	0	0	0	-	-

Table 1-48 Guillemot Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	5.30	3.95	6.91	0.755	4.84	3.47	6.42	0.746	0.46	0.25	0.70	0.116
April 2022	1.25	0.72	1.91	0.294	0.83	0.43	1.38	0.245	0.42	0.15	0.75	0.149
May 2022	1.46	0.91	2.05	0.290	1.40	0.88	1.99	0.287	0.06	0.01	0.17	0.046
June 2022	0.08	0.00	0.19	0.048	0.08	0.00	0.19	0.048	0.00	0.00	0.00	-
July 2022	1.12	0.62	1.75	0.289	0.65	0.32	1.04	0.184	0.48	0.13	0.98	0.215
August 2022	0.86	0.43	1.33	0.223	0.86	0.43	1.33	0.223	0.00	0.00	0.00	-
September 2022	14.07	11.97	16.26	1.056	14.03	11.95	16.22	1.055	0.04	0.00	0.15	0.041
October 2022	1.10	0.75	1.50	0.197	0.85	0.52	1.20	0.170	0.26	0.09	0.49	0.102
November 2022	0.35	0.11	0.66	0.134	0.29	0.07	0.55	0.125	0.06	0.01	0.17	0.048
December 2022	0.31	0.14	0.53	0.100	0.31	0.14	0.53	0.100	0.00	0.00	0.00	-
January 2023	0.98	0.65	1.44	0.195	0.97	0.64	1.41	0.195	0.01	0.00	0.05	0.016
February 2023	0.90	0.58	1.25	0.173	0.81	0.50	1.15	0.163	0.08	0.01	0.21	0.059

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2023	2.43	1.75	3.20	0.362	2.41	1.73	3.17	0.361	0.02	0.00	0.06	0.021
April 2023	1.73	1.25	2.24	0.248	1.46	1.01	1.94	0.236	0.27	0.11	0.44	0.085
May 2023	0.46	0.24	0.70	0.119	0.36	0.16	0.59	0.106	0.10	0.01	0.23	0.058
June 2023	0.77	0.42	1.19	0.195	0.77	0.42	1.19	0.195	0.00	0.00	0.00	-
July 2023	0.96	0.50	1.45	0.247	0.63	0.29	0.99	0.179	0.33	0.07	0.70	0.167
August 2023	2.59	1.86	3.35	0.381	2.59	1.86	3.35	0.381	0.00	0.00	0.00	-
September 2023	6.62	4.91	8.48	0.922	6.62	4.91	8.48	0.922	0.00	0.00	0.00	-
October 2023	0.26	0.07	0.49	0.103	0.22	0.05	0.43	0.098	0.04	0.00	0.11	0.031
November 2023	0.21	0.06	0.36	0.076	0.17	0.06	0.31	0.065	0.04	0.00	0.13	0.044
December 2023	0.35	0.16	0.56	0.103	0.31	0.14	0.53	0.100	0.04	0.00	0.11	0.029
January 2024	1.63	1.08	2.21	0.282	1.63	1.08	2.21	0.282	0.00	0.00	0.00	-
February 2024	1.19	0.78	1.67	0.223	1.19	0.78	1.67	0.223	0.00	0.00	0.00	-

## 1.12 RAZORBILL

Table 1-49 Razorbill Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	776	406	1,215	208.886	0.269	776	406	1,215	208.886	0.269	0	0	0	-	-
May 2022	31	3	85	22.525	0.717	31	3	85	22.525	0.717	0	0	0	-	-
August 2022	4	0	10	2.804	0.681	4	0	10	2.804	0.681	0	0	0	-	-
September 2022	350	152	598	110.022	0.314	350	152	598	110.022	0.314	0	0	0	-	-
February 2023	39	3	85	21.07	0.547	39	3	85	21.07	0.547	0	0	0	-	-
March 2023	11	1	36	11.322	<1	11	1	36	11.322	<1	0	0	0	-	-
April 2023	11	1	36	10.346	0.931	0	0	0	-	-	11	1	36	10.346	0.931
June 2023	13	1	38	11.437	0.88	11	1	33	11.23	<1	2	0	5	1.762	0.989
July 2023	15	1	52	15.418	<1	15	1	52	15.418	<1	0	0	0	-	-
August 2023	423	192	711	131.091	0.31	423	192	711	131.091	0.31	0	0	0	-	-
September 2023	84	28	147	31.059	0.372	84	28	147	31.059	0.372	0	0	0	-	-
January 2024	29	2	73	20.474	0.718	29	2	73	20.474	0.718	0	0	0	-	-
February 2024	247	112	405	73.871	0.299	247	112	405	73.871	0.299	0	0	0	-	-

Table 1-50 Razorbill Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	5.53	2.90	8.66	1.490	5.53	2.90	8.66	1.4897	0.00	0.00	0.00	-
May 2022	0.22	0.02	0.61	0.161	0.22	0.02	0.61	0.1606	0.00	0.00	0.00	-
August 2022	0.03	0.00	0.07	0.020	0.03	0.00	0.07	0.0200	0.00	0.00	0.00	-
September 2022	2.50	1.08	4.26	0.785	2.50	1.08	4.26	0.7846	0.00	0.00	0.00	-
February 2023	0.28	0.02	0.61	0.150	0.28	0.02	0.61	0.1503	0.00	0.00	0.00	-
March 2023	0.08	0.01	0.26	0.081	0.08	0.01	0.26	0.0807	0.00	0.00	0.00	-
April 2023	0.08	0.01	0.26	0.074	0.00	0.00	0.00	-	0.08	0.01	0.26	0.074
June 2023	0.09	0.01	0.27	0.082	0.08	0.01	0.24	0.0801	0.01	0.00	0.04	0.013
July 2023	0.11	0.01	0.37	0.110	0.11	0.01	0.37	0.1100	0.00	0.00	0.00	-
August 2023	3.02	1.37	5.07	0.935	3.02	1.37	5.07	0.9349	0.00	0.00	0.00	-
September 2023	0.60	0.20	1.05	0.221	0.60	0.20	1.05	0.2215	0.00	0.00	0.00	-
January 2024	0.21	0.01	0.52	0.146	0.21	0.01	0.52	0.1460	0.00	0.00	0.00	-
February 2024	1.76	0.80	2.89	0.527	1.76	0.80	2.89	0.5268	0.00	0.00	0.00	-

Table 1-51 Razorbill Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	964	555	1,417	221.319	0.23	964	555	1,417	221.319	0.23	0	0	0	-	-
April 2022	81	4	210	59.462	0.736	81	4	210	59.462	0.736	0	0	0	-	-
May 2022	31	3	85	21.803	0.708	31	3	85	21.803	0.708	0	0	0	-	-
July 2022	91	7	223	55.478	0.612	91	7	223	55.478	0.612	0	0	0	-	-
August 2022	44	2	114	29.46	0.676	44	2	114	29.46	0.676	0	0	0	-	-
September 2022	595	350	878	134.083	0.225	561	331	844	131.81	0.235	34	2	87	24.858	0.736
February 2023	99	14	206	47.592	0.48	99	14	206	47.592	0.48	0	0	0	-	-
March 2023	11	1	34	10.925	<1	11	1	34	10.925	<1	0	0	0	-	-
April 2023	26	2	73	19.073	0.733	15	1	50	14.393	0.985	11	1	41	11.59	<1
June 2023	41	9	87	21.086	0.51	24	2	59	16.724	0.71	18	1	45	12.555	0.704
July 2023	13	1	42	12.252	0.938	13	1	42	12.252	0.938	0	0	0	-	-
August 2023	666	384	967	151.598	0.228	666	384	967	151.598	0.228	0	0	0	-	-
September 2023	207	107	301	49.957	0.241	207	107	301	49.957	0.241	0	0	0	-	-
October 2023	45	2	112	31.248	0.694	45	2	112	31.248	0.694	0	0	0	-	-
January 2024	102	30	189	42.252	0.414	102	30	189	42.252	0.414	0	0	0	-	-
February 2024	406	224	620	100.857	0.248	397	216	614	100.179	0.253	9	1	26	9.169	0.988

Table 1-52 Razorbill Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	3.67	2.11	5.40	0.843	3.67	2.11	5.40	0.843	0.00	0.00	0.00	-
April 2022	0.31	0.02	0.80	0.227	0.31	0.02	0.80	0.227	0.00	0.00	0.00	-
May 2022	0.12	0.01	0.32	0.083	0.12	0.01	0.32	0.083	0.00	0.00	0.00	-
July 2022	0.35	0.03	0.85	0.211	0.35	0.03	0.85	0.211	0.00	0.00	0.00	-
August 2022	0.17	0.01	0.43	0.112	0.17	0.01	0.43	0.112	0.00	0.00	0.00	-
September 2022	2.27	1.33	3.35	0.511	2.14	1.26	3.22	0.502	0.13	0.01	0.33	0.095
February 2023	0.38	0.05	0.79	0.181	0.38	0.05	0.79	0.181	0.00	0.00	0.00	-
March 2023	0.04	0.00	0.13	0.042	0.04	0.00	0.13	0.042	0.00	0.00	0.00	-
April 2023	0.10	0.01	0.28	0.073	0.06	0.00	0.19	0.055	0.04	0.00	0.16	0.044
June 2023	0.16	0.03	0.33	0.080	0.09	0.01	0.22	0.064	0.07	0.00	0.17	0.048
July 2023	0.05	0.00	0.16	0.047	0.05	0.00	0.16	0.047	0.00	0.00	0.00	-
August 2023	2.54	1.46	3.68	0.578	2.54	1.46	3.68	0.578	0.00	0.00	0.00	-
September 2023	0.79	0.41	1.15	0.190	0.79	0.41	1.15	0.190	0.00	0.00	0.00	-
October 2023	0.17	0.01	0.43	0.119	0.17	0.01	0.43	0.119	0.00	0.00	0.00	-
January 2024	0.39	0.11	0.72	0.161	0.39	0.11	0.72	0.161	0.00	0.00	0.00	-
February 2024	1.55	0.85	2.36	0.384	1.51	0.82	2.34	0.382	0.03	0.00	0.10	0.035

Table 1-53 Razorbill Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	1,157	740	1,666	235.899	0.204	1,145	722	1,653	235.662	0.206	12	1	41	11.931	<1
April 2022	367	96	669	145.979	0.398	344	78	648	144.511	0.419	22	2	74	21.899	0.989
May 2022	53	5	126	31.087	0.589	53	5	126	31.087	0.589	0	0	0	-	-
July 2022	246	84	427	87.518	0.356	246	84	427	87.518	0.356	0	0	0	-	-
August 2022	77	3	183	44.653	0.578	77	3	183	44.653	0.578	0	0	0	-	-
September 2022	894	594	1,259	163.684	0.183	866	575	1,208	161.442	0.186	27	2	84	24.832	0.905
November 2022	28	2	71	20.193	0.724	28	2	71	20.193	0.724	0	0	0	-	-
January 2023	2	0	6	1.763	<1	0	0	0	-	-	2	0	6	1.763	<1
February 2023	156	58	273	55.014	0.352	131	46	241	50.153	0.383	26	3	77	25.719	<1
March 2023	44	11	90	21.491	0.489	44	11	90	21.491	0.489	0	0	0	-	-
April 2023	37	3	81	20.444	0.555	25	2	64	17.433	0.684	11	1	40	11.536	<1
May 2023	31	2	78	20.976	0.686	31	2	78	20.976	0.686	0	0	0	-	-
June 2023	72	13	147	34.561	0.478	60	11	128	32.495	0.542	12	1	44	12.316	0.998
July 2023	14	1	46	13.812	0.997	14	1	46	13.812	0.997	0	0	0	-	-
August 2023	1062	714	1455	193.218	0.182	1062	714	1455	193.218	0.182	0	0	0	-	-
September 2023	625	403	887	122.298	0.196	625	403	887	122.298	0.196	0	0	0	-	-
October 2023	80	17	163	37.232	0.463	80	17	163	37.232	0.463	0	0	0	-	-
November 2023	21	2	53	14.589	0.686	21	2	53	14.589	0.686	0	0	0	-	-
January 2024	154	60	266	52.381	0.339	154	60	266	52.381	0.339	0	0	0	-	-
February 2024	575	345	835	122.327	0.213	567	336	827	122.086	0.215	9	1	26	8.799	0.995

Table 1-54 Razorbill Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	2.83	1.81	4.07	0.576	2.80	1.76	4.04	0.576	0.03	0.00	0.10	0.029
April 2022	0.90	0.23	1.63	0.357	0.84	0.19	1.58	0.353	0.05	0.00	0.18	0.054
May 2022	0.13	0.01	0.31	0.076	0.13	0.01	0.31	0.076	0.00	0.00	0.00	-
July 2022	0.60	0.21	1.04	0.214	0.60	0.21	1.04	0.214	0.00	0.00	0.00	-
August 2022	0.19	0.01	0.45	0.109	0.19	0.01	0.45	0.109	0.00	0.00	0.00	-
September 2022	2.18	1.45	3.08	0.400	2.12	1.41	2.95	0.395	0.07	0.00	0.21	0.061
November 2022	0.07	0.00	0.17	0.049	0.07	0.00	0.17	0.049	0.00	0.00	0.00	-
January 2023	0.00	0.00	0.01	0.004	0.00	0.00	0.00	-	0.00	0.00	0.01	0.004
February 2023	0.38	0.14	0.67	0.134	0.32	0.11	0.59	0.123	0.06	0.01	0.19	0.063
March 2023	0.11	0.03	0.22	0.053	0.11	0.03	0.22	0.053	0.00	0.00	0.00	-
April 2023	0.09	0.01	0.20	0.050	0.06	0.00	0.16	0.043	0.03	0.00	0.10	0.028
May 2023	0.08	0.00	0.19	0.051	0.08	0.00	0.19	0.051	0.00	0.00	0.00	-
June 2023	0.18	0.03	0.36	0.084	0.15	0.03	0.31	0.079	0.03	0.00	0.11	0.030
July 2023	0.03	0.00	0.11	0.034	0.03	0.00	0.11	0.034	0.00	0.00	0.00	-
August 2023	2.60	1.74	3.56	0.472	2.60	1.74	3.56	0.472	0.00	0.00	0.00	-
September 2023	1.53	0.98	2.17	0.299	1.53	0.98	2.17	0.299	0.00	0.00	0.00	-
October 2023	0.20	0.04	0.40	0.091	0.20	0.04	0.40	0.091	0.00	0.00	0.00	-
November 2023	0.05	0.00	0.13	0.036	0.05	0.00	0.13	0.036	0.00	0.00	0.00	-
January 2024	0.38	0.15	0.65	0.128	0.38	0.15	0.65	0.128	0.00	0.00	0.00	-
February 2024	1.41	0.84	2.04	0.299	1.39	0.82	2.02	0.298	0.02	0.00	0.06	0.022

## 1.13 BLACK GUILLEMOT

Table 1-55 Black Guillemot Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
July 2022	10	1	30	9.46	0.992	10	1	30	9.46	0.992	0	0	0	-	-
October 2023	11	1	40	11.728	<1	11	1	40	11.728	<1	0	0	0	-	-

Table 1-56: Black Guillemot Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
July 2022	0.07	0.01	0.21	0.067	0.07	0.01	0.21	0.067	0.00	0.00	0.00	-
October 2023	0.08	0.01	0.29	0.084	0.08	0.01	0.29	0.084	0.00	0.00	0.00	-

Table 1-57 Black Guillemot Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
July 2022	9	1	28	8.937	<1	9	1	28	8.937	<1	0	0	0	-	-
November 2022	8	1	26	8.364	<1	8	1	26	8.364	<1	0	0	0	-	-
March 2023	9	1	26	8.797	0.981	9	1	26	8.797	0.981	0	0	0	-	-
October 2023	10	1	31	9.752	0.971	10	1	31	9.752	0.971	0	0	0	-	-

Table 1-58 Black Guillemot Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
July 2022	0.03	0.00	0.11	0.034	0.03	0.00	0.11	0.034	0.00	0.00	0.00	-
November 2022	0.03	0.00	0.10	0.032	0.03	0.00	0.10	0.032	0.00	0.00	0.00	-
March 2023	0.03	0.00	0.10	0.034	0.03	0.00	0.10	0.034	0.00	0.00	0.00	-
October 2023	0.04	0.00	0.12	0.037	0.04	0.00	0.12	0.037	0.00	0.00	0.00	-

Table 1-59 Black Guillemot Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	28	3	63	15.644	0.566	28	3	63	15.644	0.566	0	0	0	-	-
July 2022	8	1	27	8.264	0.98	8	1	27	8.264	0.98	0	0	0	-	-
November 2022	9	1	26	8.504	0.999	9	1	26	8.504	0.999	0	0	0	-	-
December 2022	8	1	26	8.349	<1	8	1	26	8.349	<1	0	0	0	-	-
March 2023	77	26	138	27.295	0.354	77	26	138	27.295	0.354	0	0	0	-	-
April 2023	18	2	45	12.655	0.698	18	2	45	12.655	0.698	0	0	0	-	-
October 2023	9	1	29	9.278	<1	9	1	29	9.278	<1	0	0	0	-	-
November 2023	9	1	26	9.344	<1	9	1	26	9.344	<1	0	0	0	-	-
February 2024	19	2	49	13.114	0.693	19	2	49	13.114	0.693	0	0	0	-	-

Table 1-60 Black Guillemot Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.07	0.01	0.15	0.038	0.07	0.01	0.15	0.0382	0.00	0.00	0.00	-
July 2022	0.02	0.00	0.07	0.020	0.02	0.00	0.07	0.020	0.00	0.00	0.00	-
November 2022	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
December 2022	0.02	0.00	0.06	0.020	0.02	0.00	0.06	0.020	0.00	0.00	0.00	-
March 2023	0.19	0.06	0.34	0.067	0.19	0.06	0.34	0.067	0.00	0.00	0.00	-
April 2023	0.04	0.00	0.11	0.031	0.04	0.00	0.11	0.031	0.00	0.00	0.00	-
October 2023	0.02	0.00	0.07	0.023	0.02	0.00	0.07	0.023	0.00	0.00	0.00	-
November 2023	0.02	0.00	0.06	0.023	0.02	0.00	0.06	0.023	0.00	0.00	0.00	-
February 2024	0.05	0.00	0.12	0.032	0.05	0.00	0.12	0.032	0.00	0.00	0.00	-

## 1.14 PUFFIN

Table 1-61 Puffin Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	11	1	31	10.48	0.993	11	1	31	10.48	0.993	0	0	0	-	-
April 2022	40	3	128	38.67	0.976	40	3	128	38.67	0.976	0	0	0	-	-
July 2022	3,510	2,471	4,761	591.44	0.168	2,331	1,397	3,454	524.43	0.225	1179	637	1,793	299.465	0.254
September 2022	206	78	368	75.36	0.366	206	78	368	75.36	0.366	0	0	0	-	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2022	53	10	124	28.17	0.535	53	10	124	28.17	0.535	0	0	0	-	-
April 2023	238	80	427	85.73	0.361	44	4	118	33.29	0.761	194	62	372	80.696	0.416
June 2023	61	7	152	37.48	0.616	54	5	148	36.94	0.689	7	0	22	7.16	0.989
July 2023	160	48	319	67.71	0.424	95	9	240	58.98	0.62	64	9	134	32.191	0.5
August 2023	197	72	348	73.10	0.371	197	72	348	73.10	0.371	0	0	0	-	-
September 2023	83	32	145	28.74	0.345	83	32	145	28.74	0.345	0	0	0	-	-
October 2023	92	35	161	31.87	0.346	92	35	161	31.87	0.346	0	0	0	-	-
November 2023	10	1	31	10.17	0.989	10	1	31	10.17	0.989	0	0	0	-	-

Table 1-62 Puffin Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.08	0.01	0.22	0.075	0.08	0.01	0.22	0.075	0.00	0.00	0.00	-
April 2022	0.29	0.02	0.91	0.276	0.29	0.02	0.91	0.276	0.00	0.00	0.00	-
July 2022	25.03	17.62	33.95	4.218	16.62	9.96	24.63	3.740	8.41	4.54	12.79	2.136
September 2022	1.47	0.56	2.62	0.537	1.47	0.56	2.62	0.537	0.00	0.00	0.00	-
October 2022	0.38	0.07	0.88	0.201	0.38	0.07	0.88	0.201	0.00	0.00	0.00	-
April 2023	1.70	0.57	3.05	0.611	0.31	0.03	0.84	0.237	1.38	0.44	2.65	0.575
June 2023	0.44	0.05	1.08	0.267	0.39	0.04	1.06	0.263	0.05	0.00	0.16	0.051
July 2023	1.14	0.34	2.27	0.483	0.68	0.06	1.71	0.421	0.46	0.06	0.96	0.230

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
August 2023	1.40	0.51	2.48	0.521	1.40	0.51	2.48	0.521	0.00	0.00	0.00	-
September 2023	0.59	0.23	1.03	0.205	0.59	0.23	1.03	0.205	0.00	0.00	0.00	-
October 2023	0.66	0.25	1.15	0.227	0.66	0.25	1.15	0.227	0.00	0.00	0.00	-
November 2023	0.07	0.01	0.22	0.073	0.07	0.01	0.22	0.073	0.00	0.00	0.00	-

Table 1-63 Puffin Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	10	1	32	10.07	0.985	10	1	32	10.07	0.985	0	0	0	-	-
April 2022	81	6	189	48.09	0.591	81	6	189	48.09	0.591	0	0	0	-	-
July 2022	7,406	5124	10,013	1,247.24	0.168	5,514	3,337	8,080	1,194.92	0.217	1,892	1,162	2,595	372.219	0.197
August 2022	44	4	108	27.17	0.618	44	4	108	27.17	0.618	0	0	0	-	-
September 2022	462	228	746	132.68	0.287	462	228	746	132.68	0.287	0	0	0	-	-
October 2022	71	10	144	33.11	0.465	71	10	144	33.11	0.465	0	0	0	-	-
April 2023	326	147	537	101.50	0.311	55	5	143	36.45	0.658	271	108	475	96.159	0.355
May 2023	31	3	69	17.34	0.557	20	2	52	13.67	0.691	11	1	35	11.068	0.974
June 2023	84	21	168	39.18	0.466	84	21	168	39.18	0.466	0	0	0	-	-
July 2023	304	158	490	86.44	0.284	147	41	303	67.88	0.462	157	62	284	55.455	0.354
August 2023	524	326	754	110.97	0.212	524	326	754	110.97	0.212	0	0	0	-	-
September 2023	251	143	359	53.34	0.213	251	143	359	53.34	0.213	0	0	0	-	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
October 2023	185	89	305	56.16	0.303	185	89	305	56.16	0.303	0	0	0	-	-
November 2023	20	2	52	14.31	0.726	20	2	52	14.31	0.726	0	0	0	-	-
January 2024	12	1	37	11.41	0.98	12	1	37	11.41	0.98	0	0	0	-	-

Table 1-64 Puffin Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.04	0.00	0.12	0.038	0.04	0.00	0.12	0.038	0.00	0.00	0.00	-
April 2022	0.31	0.02	0.72	0.183	0.31	0.02	0.72	0.183	0.00	0.00	0.00	-
July 2022	28.22	19.53	38.16	4.753	21.01	12.72	30.79	4.553	7.21	4.43	9.89	1.418
August 2022	0.17	0.02	0.41	0.104	0.17	0.02	0.41	0.104	0.00	0.00	0.00	-
September 2022	1.76	0.87	2.84	0.506	1.76	0.87	2.84	0.506	0.00	0.00	0.00	-
October 2022	0.27	0.04	0.55	0.126	0.27	0.04	0.55	0.126	0.00	0.00	0.00	-
April 2023	1.24	0.56	2.05	0.387	0.21	0.02	0.54	0.139	1.03	0.41	1.81	0.366
May 2023	0.12	0.01	0.26	0.066	0.08	0.01	0.20	0.052	0.04	0.00	0.13	0.042
June 2023	0.32	0.08	0.64	0.149	0.32	0.08	0.64	0.149	0.00	0.00	0.00	-
July 2023	1.16	0.60	1.87	0.329	0.56	0.16	1.15	0.259	0.60	0.24	1.08	0.211
August 2023	2.00	1.24	2.87	0.423	2.00	1.24	2.87	0.423	0.00	0.00	0.00	-
September 2023	0.96	0.54	1.37	0.203	0.96	0.54	1.37	0.203	0.00	0.00	0.00	-
October 2023	0.70	0.34	1.16	0.214	0.70	0.34	1.16	0.214	0.00	0.00	0.00	-

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
November 2023	0.08	0.01	0.20	0.055	0.08	0.01	0.20	0.055	0.00	0.00	0.00	-
January 2024	0.05	0.00	0.14	0.043	0.05	0.00	0.14	0.043	0.00	0.00	0.00	-

Table 1-65 Puffin Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	11	1	42	11.06	<1	11	1	42	11.06	<1	0	0	0	-	-
April 2022	191	69	333	67.86	0.355	161	49	292	61.62	0.383	30	3	104	30.216	<1
July 2022	10,456	7,425	13,799	1,625.93	0.156	8,389	5,444	11,803	1,580.35	0.188	2,067	1,371	2,884	384.88	0.186
August 2022	67	20	130	30.62	0.455	67	20	130	30.62	0.455	0	0	0	-	-
September 2022	767	475	1,134	162.60	0.212	767	475	1,134	162.60	0.212	0	0	0	-	-
October 2022	97	30	178	39.03	0.403	97	30	178	39.03	0.403	0	0	0	-	-
March 2023	10	1	30	9.75	0.998	10	1	30	9.75	0.998	0	0	0	-	-
April 2023	333	158	532	99.41	0.299	64	10	144	36.90	0.58	269	107	458	91.199	0.339
May 2023	65	20	129	28.28	0.438	54	10	116	26.63	0.492	11	1	35	10.408	0.991
June 2023	217	78	382	77.33	0.357	174	57	316	66.45	0.382	43	4	124	37.561	0.879
July 2023	456	256	690	107.52	0.236	202	81	349	71.50	0.354	254	111	418	80.665	0.318
August 2023	887	624	1,191	143.80	0.162	887	624	1,191	143.80	0.162	0	0	0	-	-
September 2023	540	375	726	88.31	0.163	540	375	726	88.31	0.163	0	0	0	-	-
October 2023	368	228	542	80.11	0.218	368	228	542	80.11	0.218	0	0	0	-	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
November 2023	51	10	102	22.61	0.447	51	10	102	22.61	0.447	0	0	0	-	-
January 2024	22	2	58	15.61	0.71	22	2	58	15.61	0.71	0	0	0	-	-
February 2024	11	1	35	10.88	0.997	11	1	35	10.88	0.997	0	0	0	-	-

Table 1-66 Puffin Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.03	0.00	0.10	0.027	0.03	0.00	0.10	0.027	0.00	0.00	0.00	-
April 2022	0.47	0.17	0.81	0.166	0.39	0.12	0.71	0.151	0.07	0.01	0.25	0.074
July 2022	25.55	18.14	33.72	3.973	20.50	13.30	28.84	3.862	5.05	3.35	7.05	0.941
August 2022	0.16	0.05	0.32	0.075	0.16	0.05	0.32	0.075	0.00	0.00	0.00	-
September 2022	1.87	1.16	2.77	0.397	1.87	1.16	2.77	0.397	0.00	0.00	0.00	-
October 2022	0.24	0.07	0.43	0.095	0.24	0.07	0.43	0.095	0.00	0.00	0.00	-
March 2023	0.02	0.00	0.07	0.024	0.02	0.00	0.07	0.024	0.00	0.00	0.00	-
April 2023	0.81	0.39	1.30	0.243	0.16	0.02	0.35	0.090	0.66	0.26	1.12	0.223
May 2023	0.16	0.05	0.32	0.069	0.13	0.02	0.28	0.065	0.03	0.00	0.09	0.025
June 2023	0.53	0.19	0.93	0.189	0.43	0.14	0.77	0.162	0.11	0.01	0.30	0.092
July 2023	1.11	0.63	1.69	0.263	0.49	0.20	0.85	0.175	0.62	0.27	1.02	0.197
August 2023	2.17	1.52	2.91	0.351	2.17	1.52	2.91	0.351	0.00	0.00	0.00	-
September 2023	1.32	0.92	1.77	0.216	1.32	0.92	1.77	0.216	0.00	0.00	0.00	-

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
October 2023	0.90	0.56	1.32	0.196	0.90	0.56	1.32	0.196	0.00	0.00	0.00	-
November 2023	0.12	0.02	0.25	0.055	0.12	0.02	0.25	0.055	0.00	0.00	0.00	-
January 2024	0.05	0.00	0.14	0.038	0.05	0.00	0.14	0.038	0.00	0.00	0.00	-
February 2024	0.03	0.00	0.09	0.027	0.03	0.00	0.09	0.027	0.00	0.00	0.00	-

## 1.15 RED-THROATED DIVER

Table 1-67 Red-throated Diver Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
June 2022	9	1	26	8.519	0.963	0	0	0	-	-	9	1	26	8.519	0.963
February 2024	8	1	26	8.28	0.977	8	1	26	8.28	0.977	0	0	0	-	-

Table 1-68 Red-throated Diver Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
June 2022	0.03	0.00	0.10	0.032	0.00	0.00	0.00	-	0.03	0.00	0.10	0.032
February 2024	0.03	0.00	0.10	0.032	0.03	0.00	0.10	0.032	0.00	0.00	0.00	-

Table 1-69 Red-throated Diver Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
June 2022	8	1	26	8.109	0.996	0	0	0	-	-	8	1	26	8.109	0.996
October 2023	8	1	26	8.488	<1	8	1	26	8.488	<1	0	0	0	-	-
February 2024	8	1	26	8.464	<1	8	1	26	8.464	<1	0	0	0	-	-

Table 1-70 Red-throated Diver Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
June 2022	0.02	0.00	0.06	0.020	0.00	0.00	0.00	-	0.02	0.00	0.06	0.020
October 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
February 2024	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-

## 1.16 GREAT NORTHERN DIVER

Table 1-71 Great Northern Diver Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	37	4	86	21.266	0.579	37	4	86	21.266	0.579	0	0	0	-	-
April 2022	17	2	43	12.247	0.717	17	2	43	12.247	0.717	0	0	0	-	-
December 2022	26	3	61	15.027	0.578	26	3	61	15.027	0.578	0	0	0	-	-
February 2023	9	1	26	8.623	0.994	9	1	26	8.623	0.994	0	0	0	-	-
March 2023	9	1	26	8.893	0.962	9	1	26	8.893	0.962	0	0	0	-	-
May 2023	17	2	43	12.759	0.739	17	2	43	12.759	0.739	0	0	0	-	-
November 2023	9	1	26	8.749	<1	9	1	26	8.749	<1	0	0	0	-	-
December 2023	9	1	26	8.78	<1	9	1	26	8.78	<1	0	0	0	-	-
January 2024	17	2	44	12.219	0.7	17	2	44	12.219	0.7	0	0	0	-	-

Table 1-72 Great Northern Diver Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.09	0.01	0.21	0.052	0.09	0.01	0.21	0.052	0.00	0.00	0.00	-
April 2022	0.04	0.00	0.11	0.030	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-
December 2022	0.06	0.01	0.15	0.037	0.06	0.01	0.15	0.037	0.00	0.00	0.00	-
February 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2023	0.02	0.00	0.06	0.022	0.02	0.00	0.06	0.022	0.00	0.00	0.00	-
May 2023	0.04	0.00	0.11	0.031	0.04	0.00	0.11	0.031	0.00	0.00	0.00	-
November 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
December 2023	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021	0.00	0.00	0.00	-
January 2024	0.04	0.00	0.11	0.030	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-

## 1.17 FULMAR

Table 1-73 Fulmar Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	158	54	303	65.545	0.415	0	0	0	-	-	158	54	303	65.545	0.415
April 2022	36	9	72	17.976	0.505	9	1	27	9.198	<1	27	3	54	15.255	0.567
May 2022	35	9	70	16.841	0.487	8	1	26	8.385	<1	26	3	61	14.54	0.55
July 2022	201	105	333	59.512	0.296	140	53	263	54.219	0.388	62	18	123	26.058	0.424
August 2022	35	9	70	16.876	0.485	9	1	26	8.908	0.997	26	3	52	14.608	0.566
September 2022	70	17	131	28.561	0.407	0	0	0	-	-	70	17	131	28.561	0.407
October 2022	9	1	27	8.882	0.99	9	1	27	8.882	0.99	0	0	0	-	-
November 2022	38	9	79	19.462	0.518	11	1	40	11.485	<1	26	3	62	15.819	0.601
December 2022	159	36	347	81.613	0.513	0	0	0	-	-	159	36	347	81.613	0.513
January 2023	8	1	26	8.582	<1	0	0	0	-	-	8	1	26	8.582	<1
February 2023	53	18	105	21.756	0.413	0	0	0	-	-	53	18	105	21.756	0.413
March 2023	203	105	316	55.953	0.275	9	1	26	8.543	0.993	195	97	308	55.654	0.286
April 2023	62	9	142	32.299	0.517	0	0	0	-	-	62	9	142	32.299	0.517
May 2023	64	18	117	26.641	0.415	0	0	0	-	-	64	18	117	26.641	0.415
June 2023	9	1	27	9.153	<1	0	0	0	-	-	9	1	27	9.153	<1
July 2023	107	45	179	35.712	0.333	18	2	45	12.639	0.695	89	27	161	33.922	0.381
August 2023	36	4	88	20.915	0.587	0	0	0	-	-	36	4	88	20.915	0.587
September 2023	18	2	44	12.467	0.705	0	0	0	-	-	18	2	44	12.467	0.705

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
December 2023	100	44	165	30.787	0.308	9	1	35	8.95	0.99	91	39	152	29.3	0.322
January 2024	64	9	135	32.578	0.512	0	0	0	-	-	64	9	135	32.578	0.512

Table 1-74 Fulmar Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	1.13	0.39	2.16	0.467	0.00	0.00	0.00	-	1.13	0.39	2.16	0.467
April 2022	0.26	0.06	0.51	0.128	0.06	0.01	0.19	0.066	0.19	0.02	0.39	0.109
May 2022	0.25	0.06	0.50	0.120	0.06	0.01	0.19	0.060	0.19	0.02	0.44	0.104
July 2022	1.43	0.75	2.37	0.424	1.00	0.38	1.88	0.387	0.44	0.13	0.88	0.186
August 2022	0.25	0.06	0.50	0.120	0.06	0.01	0.19	0.064	0.19	0.02	0.37	0.104
September 2022	0.50	0.12	0.93	0.204	0.00	0.00	0.00	-	0.50	0.12	0.93	0.204
October 2022	0.06	0.01	0.19	0.063	0.06	0.01	0.19	0.063	0.00	0.00	0.00	-
November 2022	0.27	0.06	0.56	0.139	0.08	0.01	0.29	0.082	0.19	0.02	0.44	0.113
December 2022	1.13	0.26	2.47	0.582	0.00	0.00	0.00	-	1.13	0.26	2.47	0.582
January 2023	0.06	0.01	0.19	0.061	0.00	0.00	0.00	-	0.06	0.01	0.19	0.061
February 2023	0.38	0.13	0.75	0.155	0.00	0.00	0.00	-	0.38	0.13	0.75	0.155
March 2023	1.45	0.75	2.25	0.399	0.06	0.01	0.19	0.061	1.39	0.69	2.20	0.397
April 2023	0.44	0.06	1.01	0.230	0.00	0.00	0.00	-	0.44	0.06	1.01	0.230
May 2023	0.46	0.13	0.83	0.190	0.00	0.00	0.00	-	0.46	0.13	0.83	0.190

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
June 2023	0.06	0.01	0.19	0.065	0.00	0.00	0.00	-	0.06	0.01	0.19	0.065
July 2023	0.76	0.32	1.28	0.255	0.13	0.01	0.32	0.090	0.63	0.19	1.15	0.242
August 2023	0.26	0.03	0.63	0.149	0.00	0.00	0.00	-	0.26	0.03	0.63	0.149
September 2023	0.13	0.01	0.31	0.089	0.00	0.00	0.00	-	0.13	0.01	0.31	0.089
December 2023	0.71	0.31	1.18	0.220	0.06	0.01	0.25	0.064	0.65	0.28	1.08	0.209
January 2024	0.46	0.06	0.96	0.232	0.00	0.00	0.00	-	0.46	0.06	0.96	0.232

Table 1-75 Fulmar Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	265	141	432	74.859	0.282	0	0	0	-	-	265	141	432	74.859	0.282
April 2022	123	53	204	38.142	0.31	35	4	80	21.986	0.631	88	35	159	30.463	0.346
May 2022	35	9	70	17.668	0.507	8	1	26	8.664	<1	27	3	61	15.137	0.57
June 2022	18	2	52	17.556	0.97	0	0	0	-	-	18	2	52	17.556	0.97
July 2022	405	262	569	79.13	0.195	238	114	376	66.305	0.279	168	96	245	40.307	0.241
August 2022	96	35	174	36.631	0.383	44	5	113	30.32	0.694	52	17	96	20.714	0.398
September 2022	96	44	166	33.372	0.349	0	0	0	-	-	96	44	166	33.372	0.349
October 2022	9	1	35	9.075	<1	9	1	35	9.075	<1	0	0	0	-	-
November 2022	55	18	102	21.73	0.394	20	2	53	13.989	0.712	36	9	70	17.46	0.492
December 2022	282	124	496	98.078	0.348	0	0	0	-	-	282	124	496	98.078	0.348

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
January 2023	8	1	26	8.736	<1	0	0	0	-	-	8	1	26	8.736	<1
February 2023	134	52	244	51.585	0.386	0	0	0	-	-	134	52	244	51.585	0.386
March 2023	407	210	648	113.035	0.278	18	2	44	13.276	0.718	388	193	622	112.35	0.289
April 2023	538	168	1133	249.217	0.463	0	0	0	-	-	538	168	1133	249.217	0.463
May 2023	90	35	150	30.61	0.342	0	0	0	-	-	90	35	150	30.61	0.342
June 2023	18	2	45	12.892	0.729	0	0	0	-	-	18	2	45	12.892	0.729
July 2023	150	71	231	40.833	0.272	36	9	71	17.635	0.494	114	53	196	36.911	0.322
August 2023	61	9	123	28.162	0.463	0	0	0	-	-	61	9	123	28.162	0.463
September 2023	35	9	70	17.411	0.493	0	0	0	-	-	35	9	70	17.411	0.493
December 2023	206	114	318	51.855	0.252	18	2	53	13.189	0.719	187	101	289	49.591	0.265
January 2024	105	36	188	38.248	0.363	9	1	27	8.859	<1	97	36	179	36.919	0.382

Table 1-76 Fulmar Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	1.01	0.54	1.65	0.285	0.00	0.00	0.00	-	1.01	0.54	1.65	0.285
April 2022	0.47	0.20	0.78	0.145	0.13	0.02	0.30	0.084	0.34	0.13	0.61	0.116
May 2022	0.13	0.03	0.27	0.067	0.03	0.00	0.10	0.033	0.10	0.01	0.23	0.058
June 2022	0.07	0.01	0.20	0.067	0.00	0.00	0.00	-	0.07	0.01	0.20	0.067
July 2022	1.54	1.00	2.17	0.302	0.91	0.43	1.43	0.253	0.64	0.37	0.93	0.154
August 2022	0.37	0.13	0.66	0.140	0.17	0.02	0.43	0.116	0.20	0.06	0.37	0.079
September 2022	0.37	0.17	0.63	0.127	0.00	0.00	0.00	-	0.37	0.17	0.63	0.127
October 2022	0.03	0.00	0.13	0.035	0.03	0.00	0.13	0.035	0.00	0.00	0.00	-
November 2022	0.21	0.07	0.39	0.083	0.08	0.01	0.20	0.053	0.14	0.03	0.27	0.067
December 2022	1.07	0.47	1.89	0.374	0.00	0.00	0.00	-	1.07	0.47	1.89	0.374
January 2023	0.03	0.00	0.10	0.033	0.00	0.00	0.00	-	0.03	0.00	0.10	0.033
February 2023	0.51	0.20	0.93	0.197	0.00	0.00	0.00	-	0.51	0.20	0.93	0.197
March 2023	1.55	0.80	2.47	0.431	0.07	0.01	0.17	0.051	1.48	0.74	2.37	0.428
April 2023	2.05	0.64	4.32	0.950	0.00	0.00	0.00	-	2.05	0.64	4.32	0.950
May 2023	0.34	0.13	0.57	0.117	0.00	0.00	0.00	-	0.34	0.13	0.57	0.117
June 2023	0.07	0.01	0.17	0.049	0.00	0.00	0.00	-	0.07	0.01	0.17	0.049
July 2023	0.57	0.27	0.88	0.156	0.14	0.03	0.27	0.067	0.43	0.20	0.75	0.141
August 2023	0.23	0.03	0.47	0.107	0.00	0.00	0.00	-	0.23	0.03	0.47	0.107
September 2023	0.13	0.03	0.27	0.066	0.00	0.00	0.00	-	0.13	0.03	0.27	0.066
December 2023	0.79	0.43	1.21	0.198	0.07	0.01	0.20	0.050	0.71	0.38	1.10	0.189

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
January 2024	0.40	0.14	0.72	0.146	0.03	0.00	0.10	0.034	0.37	0.14	0.68	0.141

Table 1-77 Fulmar Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	622	320	1,064	199.889	0.321	44	9	95	22.879	0.523	578	277	1021	198.051	0.342
April 2022	258	139	407	73.101	0.283	66	8	156	39.946	0.602	192	87	320	58.75	0.306
May 2022	69	26	130	27.259	0.394	9	1	26	8.567	0.99	60	17	121	25.724	0.425
June 2022	17	2	51	17.001	<1	0	0	0	-	-	17	2	51	17.001	<1
July 2022	526	363	708	86.098	0.164	283	155	440	70.714	0.25	243	155	345	49.431	0.203
August 2022	147	69	241	44.275	0.302	44	5	112	30.312	0.692	103	43	172	32.006	0.311
September 2022	171	86	275	46.685	0.273	9	1	26	8.412	0.956	162	77	258	45.945	0.283
October 2022	17	2	44	12.245	0.704	9	1	26	8.722	<1	9	1	26	8.674	0.995
November 2022	55	17	104	22.499	0.411	19	2	49	13.472	0.713	36	9	78	18.631	0.519
December 2022	355	191	574	98.754	0.278	0	0	0	-	-	355	191	574	98.754	0.278
January 2023	17	2	43	12.291	0.73	0	0	0	-	-	17	2	43	12.291	0.73
February 2023	248	137	385	61.555	0.248	0	0	0	-	-	248	137	385	61.555	0.248
March 2023	601	378	851	123.066	0.205	79	9	172	39.565	0.502	523	318	757	116.55	0.223
April 2023	748	287	1374	283.392	0.379	9	1	26	8.516	0.958	739	278	1374	283.225	0.383
May 2023	165	87	252	41.241	0.25	17	2	52	16.988	<1	148	78	226	38.229	0.258

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
June 2023	36	9	71	17.335	0.483	0	0	0	-	-	36	9	71	17.335	0.483
July 2023	210	116	314	49.906	0.237	49	13	93	21.018	0.433	162	79	253	45.059	0.279
August 2023	72	21	138	30.718	0.428	4	0	11	3.664	<1	68	17	138	30.369	0.445
September 2023	111	26	240	56.003	0.503	9	1	26	8.263	0.957	103	17	232	55.949	0.545
December 2023	368	232	518	74.352	0.202	17	2	43	12.134	0.701	351	214	501	73.895	0.211
January 2024	160	79	246	43.859	0.274	18	2	44	12.587	0.701	142	70	228	41.576	0.293
February 2024	17	2	54	17.346	0.996	0	0	0	-	-	17	2	54	17.346	0.996

Table 1-78 Fulmar Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	1.52	0.78	2.60	0.488	0.11	0.02	0.23	0.056	1.41	0.68	2.50	0.484
April 2022	0.63	0.34	0.99	0.179	0.16	0.02	0.38	0.098	0.47	0.21	0.78	0.144
May 2022	0.17	0.06	0.32	0.067	0.02	0.00	0.06	0.021	0.15	0.04	0.30	0.063
June 2022	0.04	0.00	0.12	0.042	0.00	0.00	0.00	-	0.04	0.00	0.12	0.042
July 2022	1.29	0.89	1.73	0.210	0.69	0.38	1.08	0.173	0.59	0.38	0.84	0.121
August 2022	0.36	0.17	0.59	0.108	0.11	0.01	0.27	0.074	0.25	0.11	0.42	0.078
September 2022	0.42	0.21	0.67	0.114	0.02	0.00	0.06	0.021	0.40	0.19	0.63	0.112
October 2022	0.04	0.00	0.11	0.030	0.02	0.00	0.06	0.021	0.02	0.00	0.06	0.021
November 2022	0.13	0.04	0.25	0.055	0.05	0.00	0.12	0.033	0.09	0.02	0.19	0.046

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
December 2022	0.87	0.47	1.40	0.241	0.00	0.00	0.00	-	0.87	0.47	1.40	0.241
January 2023	0.04	0.00	0.11	0.030	0.00	0.00	0.00	-	0.04	0.00	0.11	0.030
February 2023	0.61	0.33	0.94	0.150	0.00	0.00	0.00	-	0.61	0.33	0.94	0.150
March 2023	1.47	0.92	2.08	0.301	0.19	0.02	0.42	0.097	1.28	0.78	1.85	0.285
April 2023	1.83	0.70	3.36	0.693	0.02	0.00	0.06	0.021	1.81	0.68	3.36	0.692
May 2023	0.40	0.21	0.62	0.101	0.04	0.00	0.13	0.042	0.36	0.19	0.55	0.093
June 2023	0.09	0.02	0.17	0.042	0.00	0.00	0.00	-	0.09	0.02	0.17	0.042
July 2023	0.51	0.28	0.77	0.122	0.12	0.03	0.23	0.051	0.40	0.19	0.62	0.110
August 2023	0.18	0.05	0.34	0.075	0.01	0.00	0.03	0.009	0.17	0.04	0.34	0.074
September 2023	0.27	0.06	0.59	0.137	0.02	0.00	0.06	0.020	0.25	0.04	0.57	0.137
December 2023	0.90	0.57	1.27	0.182	0.04	0.00	0.11	0.030	0.86	0.52	1.22	0.181
January 2024	0.39	0.19	0.60	0.107	0.04	0.00	0.11	0.031	0.35	0.17	0.56	0.102
February 2024	0.04	0.00	0.13	0.042	0.00	0.00	0.00	-	0.04	0.00	0.13	0.042

## 1.18 MANX SHEARWATER

Table 1-79 Manx Shearwater Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
April 2022	14	1	45	12.418	0.874	0	0	0	-	-	14	1	45	12.418	0.874
July 2022	113	36	206	45.07	0.397	26	2	72	19.874	0.757	87	19	174	39.89	0.457
August 2022	7	0	22	6.886	0.971	0	0	0	-	-	7	0	22	6.886	0.971
July 2023	26	2	63	15.616	0.593	9	1	27	8.622	0.991	18	1	45	12.707	0.72

Table 1-80 Manx Shearwater Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
April 2022	0.10	0.01	0.32	0.089	0.00	0.00	0.00	-	0.10	0.01	0.32	0.089
July 2022	0.81	0.26	1.47	0.321	0.19	0.01	0.51	0.142	0.62	0.14	1.24	0.284
August 2022	0.05	0.00	0.16	0.049	0.00	0.00	0.00	-	0.05	0.00	0.16	0.049
July 2023	0.19	0.01	0.45	0.111	0.06	0.01	0.19	0.061	0.13	0.01	0.32	0.091

Table 1-81 Manx Shearwater Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
April 2022	26	2	71	18.764	0.73	0	0	0	-	-	26	2	71	18.764	0.73
July 2022	971	249	1925	431.369	0.444	515	56	1399	366.693	0.712	456	93	1021	246.12	0.54
August 2022	17	0	42	12.104	0.72	0	0	0	-	-	17	0	42	12.104	0.72
July 2023	53	18	99	22.037	0.417	9	1	28	8.807	0.989	44	9	89	19.828	0.451

Table 1-82 Manx Shearwater Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
April 2022	0.10	0.01	0.27	0.0715	0.00	0.00	0.00	-	0.10	0.01	0.27	0.072
July 2022	3.70	0.95	7.34	1.6438	1.96	0.21	5.33	1.397	1.74	0.35	3.89	0.938
August 2022	0.06	0.00	0.16	0.0461	0.00	0.00	0.00	-	0.06	0.00	0.16	0.046
July 2023	0.20	0.07	0.38	0.0840	0.03	0.00	0.11	0.034	0.17	0.03	0.34	0.076

Table 1-83 Manx Shearwater Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
April 2022	20	2	52	14.136	0.708	0	0	0	-	-	20	2	52	14.136	0.708
July 2022	3,289	1,155	5,899	1265.297	0.385	1857	208	3960	1007.764	0.543	1432	322	3134	745.583	0.521
August 2022	17	0	42	12.025	0.729	0	0	0	-	-	17	0	42	12.025	0.729
July 2023	55	18	102	22.322	0.404	10	1	37	10.063	<1	45	9	89	19.984	0.44

Table 1-84 Manx Shearwater Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
April 2022	0.05	0.00	0.13	0.035	0.00	0.00	0.00	-	0.05	0.00	0.13	0.035
July 2022	8.04	2.82	14.42	3.092	4.54	0.51	9.68	2.463	3.50	0.79	7.66	1.822
August 2022	0.04	0.00	0.10	0.029	0.00	0.00	0.00	-	0.04	0.00	0.10	0.029
July 2023	0.13	0.04	0.25	0.055	0.02	0.00	0.09	0.025	0.11	0.02	0.22	0.049

## 1.19 SOOTY SHEARWATER

Table 1-85 Sooty Shearwater Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
August 2022	1	0	4	1.385	0.971	0	0	0	-	-	1	0	4	1.385	0.971
September 2022	9	1	26	9.076	<1	0	0	0	-	-	9	1	26	9.076	<1
August 2023	9	1	26	8.726	0.99	0	0	0	-	-	9	1	26	8.726	0.99

Table 1-86 Sooty Shearwater Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
August 2022	0.01	0.00	0.03	0.010	0.00	0.00	0.00	0.000	0.01	0.00	0.03	0.010
September 2022	0.06	0.01	0.19	0.065	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.065
August 2023	0.06	0.01	0.19	0.062	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.062

Table 1-87 Sooty Shearwater Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
August 2022	1	0	2	0.513	0.72	0	0	0	-	-	1	0	2	0.513	0.72
September 2022	9	1	26	8.674	0.978	0	0	0	-	-	9	1	26	8.674	0.978
August 2023	9	1	26	9.123	<1	0	0	0	-	-	9	1	26	9.123	<1
September 2023	9	1	26	8.535	0.981	0	0	0	-	-	9	1	26	8.535	0.981

Table 1-88 Sooty Shearwater Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
August 2022	0.00	0.00	0.01	0.002	0.00	0.00	0.00	0.000	0.00	0.00	0.01	0.002
September 2022	0.03	0.00	0.10	0.033	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.033
August 2023	0.03	0.00	0.10	0.035	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.035
September 2023	0.03	0.00	0.10	0.033	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.033

Table 1-89 Sooty Shearwater Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
August 2022	0	0	1	0.174	0.729	0	0	0	-	-	0	0	1	0.174	0.729
September 2022	9	1	26	8.662	<1	0	0	0	-	-	9	1	26	8.662	<1
August 2023	9	1	26	8.503	0.982	0	0	0	-	-	9	1	26	8.503	0.982
September 2023	9	1	26	8.675	0.964	0	0	0	-	-	9	1	26	8.675	0.964

Table 1-90 Sooty Shearwater Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
September 2022	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
August 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
September 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021

## 1.20 GANNET

Table 1-91 Gannet Design-based Abundance Estimates for Turbine Area

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	8	1	27	8.833	<1	0	0	0	-	-	8	1	27	8.833	<1
April 2022	161	81	242	40.165	0.249	81	27	143	30.242	0.373	80	36	134	26.222	0.326
May 2022	9	1	26	8.686	0.955	0	0	0	-	-	9	1	26	8.686	0.955
June 2022	87	26	155	32.089	0.368	34	9	69	16.644	0.484	53	9	112	27.218	0.516
July 2022	114	35	219	46.211	0.404	9	1	35	8.995	<1	106	26	210	45.204	0.427
August 2022	112	13	287	78.548	0.702	0	0	0	-	-	112	13	287	78.548	0.702
September 2022	51	9	105	23.504	0.458	17	2	44	12.018	0.691	34	4	78	20.25	0.597
October 2022	259	134	409	70.954	0.274	79	27	160	33.704	0.426	180	80	320	63.027	0.35
November 2022	9	1	26	8.477	0.945	0	0	0	-	-	9	1	26	8.477	0.945
January 2023	27	3	62	15.18	0.566	0	0	0	-	-	27	3	62	15.18	0.566
March 2023	9	1	35	8.998	0.948	0	0	0	-	-	9	1	35	8.998	0.948
April 2023	27	3	62	15.224	0.572	9	1	27	8.95	0.967	17	2	44	12.361	0.713
May 2023	73	27	126	25.969	0.354	29	3	63	16.399	0.57	45	9	90	20.068	0.449
June 2023	54	18	100	21.3	0.395	9	1	27	8.75	0.951	45	9	82	19.51	0.436
July 2023	123	45	223	46.289	0.375	18	2	54	18.125	0.994	105	36	197	42.257	0.402
August 2023	26	3	62	15.068	0.586	0	0	0	-	-	26	3	62	15.068	0.586
September 2023	17	2	44	12.413	0.726	0	0	0	-	-	17	2	44	12.413	0.726

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
December 2023	8	1	27	8.555	<1	0	0	0	-	-	8	1	27	8.555	<1

Table 1-92 Gannet Design-based Density Estimates for Turbine Area

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.06	0.01	0.19	0.063	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.063
April 2022	1.15	0.58	1.73	0.286	0.58	0.19	1.02	0.216	0.57	0.26	0.96	0.187
May 2022	0.06	0.01	0.19	0.062	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.062
June 2022	0.62	0.19	1.11	0.229	0.24	0.06	0.49	0.119	0.38	0.06	0.80	0.194
July 2022	0.81	0.25	1.56	0.330	0.06	0.01	0.25	0.064	0.76	0.19	1.50	0.322
August 2022	0.80	0.09	2.05	0.560	0.00	0.00	0.00	0.000	0.80	0.09	2.05	0.560
September 2022	0.36	0.06	0.75	0.168	0.12	0.01	0.31	0.086	0.24	0.03	0.56	0.144
October 2022	1.85	0.96	2.92	0.506	0.56	0.19	1.14	0.240	1.28	0.57	2.28	0.449
November 2022	0.06	0.01	0.19	0.060	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.060
January 2023	0.19	0.02	0.44	0.108	0.00	0.00	0.00	0.000	0.19	0.02	0.44	0.108
March 2023	0.06	0.01	0.25	0.064	0.00	0.00	0.00	0.000	0.06	0.01	0.25	0.064
April 2023	0.19	0.02	0.44	0.109	0.06	0.01	0.19	0.064	0.12	0.01	0.31	0.088
May 2023	0.52	0.19	0.90	0.185	0.21	0.02	0.45	0.117	0.32	0.06	0.64	0.143
June 2023	0.39	0.13	0.71	0.152	0.06	0.01	0.19	0.062	0.32	0.06	0.58	0.139
July 2023	0.88	0.32	1.59	0.330	0.13	0.01	0.39	0.129	0.75	0.26	1.40	0.301

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
August 2023	0.19	0.02	0.44	0.107	0.00	0.00	0.00	0.000	0.19	0.02	0.44	0.107
September 2023	0.12	0.01	0.31	0.089	0.00	0.00	0.00	0.000	0.12	0.01	0.31	0.089
December 2023	0.06	0.01	0.19	0.061	0.00	0.00	0.00	0.000	0.06	0.01	0.19	0.061

Table 1-93 Gannet Design-based Abundance Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	18	2	44	12.259	0.676	0	0	0	-	-	18	2	44	12.259	0.676
April 2022	273	168	381	53.799	0.197	141	71	230	39.649	0.28	131	62	213	36.795	0.28
May 2022	26	3	61	15.183	0.583	0	0	0	-	-	26	3	61	15.183	0.583
June 2022	114	52	190	36.385	0.32	44	9	86	19.098	0.434	70	17	138	30.909	0.442
July 2022	262	149	394	62.747	0.239	53	17	96	20.659	0.39	209	105	341	59.835	0.286
August 2022	694	192	1403	311.68	0.449	0	0	0	-	-	694	192	1403	311.68	0.449
September 2022	106	44	183	35.102	0.331	35	9	70	17.397	0.495	71	17	140	30.544	0.431
October 2022	328	186	495	76.527	0.233	98	35	177	37.244	0.379	230	115	380	68.578	0.298
November 2022	18	2	44	12.539	0.699	9	1	26	8.881	0.991	9	1	26	8.793	0.98
January 2023	35	9	70	17.258	0.497	0	0	0	-	-	35	9	70	17.258	0.497
March 2023	9	1	26	8.578	0.97	0	0	0	-	-	9	1	26	8.578	0.97
April 2023	114	53	195	37.151	0.326	34	4	71	17.132	0.501	80	27	150	32.292	0.404
May 2023	90	44	150	28.398	0.314	27	3	62	14.958	0.563	64	27	115	24.243	0.379
June 2023	210	108	316	54.168	0.258	45	9	90	20.295	0.448	165	72	271	49.279	0.299
July 2023	197	89	338	64.691	0.328	53	6	142	40.711	0.764	144	53	249	50.509	0.351
August 2023	36	9	70	16.876	0.475	0	0	0	-	-	36	9	70	16.876	0.475
September 2023	78	26	140	27.732	0.354	17	2	44	12.317	0.713	61	17	114	25.025	0.41
December 2023	9	1	26	8.483	0.952	0	0	0	-	-	9	1	26	8.483	0.952
January 2024	9	1	27	8.922	1	0	0	0	-	-	9	1	27	8.922	1

Table 1-94 Gannet Design-based Density Estimates for Turbine Area Plus 2 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.07	0.01	0.17	0.047	0.00	0.00	0.00	0.000	0.07	0.01	0.17	0.047
April 2022	1.04	0.64	1.45	0.205	0.54	0.27	0.88	0.151	0.50	0.24	0.81	0.140
May 2022	0.10	0.01	0.23	0.058	0.00	0.00	0.00	0.000	0.10	0.01	0.23	0.058
June 2022	0.43	0.20	0.72	0.139	0.17	0.03	0.33	0.073	0.27	0.06	0.53	0.118
July 2022	1.00	0.57	1.50	0.239	0.20	0.06	0.37	0.079	0.80	0.40	1.30	0.228
August 2022	2.64	0.73	5.35	1.188	0.00	0.00	0.00	0.000	2.64	0.73	5.35	1.188
September 2022	0.40	0.17	0.70	0.134	0.13	0.03	0.27	0.066	0.27	0.06	0.53	0.116
October 2022	1.25	0.71	1.89	0.292	0.37	0.13	0.67	0.142	0.88	0.44	1.45	0.261
November 2022	0.07	0.01	0.17	0.048	0.03	0.00	0.10	0.034	0.03	0.00	0.10	0.034
January 2023	0.13	0.03	0.27	0.066	0.00	0.00	0.00	0.000	0.13	0.03	0.27	0.066
March 2023	0.03	0.00	0.10	0.033	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.033
April 2023	0.43	0.20	0.74	0.142	0.13	0.02	0.27	0.065	0.30	0.10	0.57	0.123
May 2023	0.34	0.17	0.57	0.108	0.10	0.01	0.24	0.057	0.24	0.10	0.44	0.092
June 2023	0.80	0.41	1.20	0.206	0.17	0.03	0.34	0.077	0.63	0.27	1.03	0.188
July 2023	0.75	0.34	1.29	0.247	0.20	0.02	0.54	0.155	0.55	0.20	0.95	0.192
August 2023	0.14	0.03	0.27	0.064	0.00	0.00	0.00	0.000	0.14	0.03	0.27	0.064
September 2023	0.30	0.10	0.53	0.106	0.06	0.01	0.17	0.047	0.23	0.06	0.43	0.095
December 2023	0.03	0.00	0.10	0.032	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.032
January 2024	0.03	0.00	0.10	0.034	0.00	0.00	0.00	0.000	0.03	0.00	0.10	0.034

Table 1-95 Gannet Design-based Abundance Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
March 2022	25	3	61	14.482	0.572	0	0	0	-	-	25	3	61	14.482	0.572
April 2022	476	329	624	76.042	0.16	277	173	407	60.709	0.219	200	121	286	43.831	0.22
May 2022	43	9	78	18.476	0.433	9	1	26	9.005	<1	34	9	69	16.328	0.481
June 2022	163	94	247	41.699	0.256	60	26	111	22.191	0.373	104	43	179	36.267	0.35
July 2022	411	276	570	76.159	0.185	121	60	190	33.281	0.275	290	173	440	69.488	0.239
August 2022	858	319	1645	329.574	0.384	0	0	0	-	-	858	319	1645	329.574	0.384
September 2022	173	95	258	42.233	0.244	34	9	69	17.234	0.501	139	69	215	37.901	0.274
October 2022	350	200	522	81.353	0.233	113	44	200	39.776	0.351	236	113	383	71.609	0.303
November 2022	35	9	78	17.286	0.499	9	1	26	8.773	<1	26	3	60	14.973	0.573
January 2023	59	26	112	23.04	0.388	0	0	0	-	-	59	26	112	23.04	0.388
February 2023	9	1	26	8.618	0.969	0	0	0	-	-	9	1	26	8.618	0.969
March 2023	58	7	155	41.779	0.721	42	5	129	40.256	0.967	16	2	43	12.134	0.742
April 2023	149	78	226	40.263	0.271	53	17	96	20.499	0.389	96	35	165	32.861	0.342
May 2023	131	69	200	33.079	0.252	52	17	96	21.335	0.41	79	35	130	25.844	0.326
June 2023	242	142	355	53.714	0.222	46	9	89	19.227	0.422	197	106	302	49.522	0.252
July 2023	226	113	358	64.138	0.284	61	7	148	39.268	0.645	165	79	270	50.333	0.305
August 2023	163	52	310	67.03	0.411	43	5	129	42.988	<1	121	34	232	52.395	0.435
September 2023	320	137	609	124.99	0.391	52	17	103	21.554	0.414	267	86	558	123.76	0.463
October 2023	35	4	104	28.091	0.806	0	0	0	-	-	35	4	104	28.091	0.806
November 2023	9	1	26	8.578	0.956	0	0	0	-	-	9	1	26	8.578	0.956

Survey	All Behaviours					Sitting Only					Flying Only				
	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV	Estimated Abundance	LCL	UCL	SD	CV
December 2023	9	1	26	8.664	0.989	0	0	0	-	-	9	1	26	8.664	0.989
January 2024	9	1	26	8.684	0.961	0	0	0	-	-	9	1	26	8.684	0.961
February 2024	9	1	26	8.447	0.97	0	0	0	-	-	9	1	26	8.447	0.97

Table 1-96 Gannet Design-based Density Estimates for Turbine Area Plus 4 km Buffer

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
March 2022	0.06	0.01	0.15	0.035	0.00	0.00	0.00	0.000	0.06	0.01	0.15	0.035
April 2022	1.16	0.80	1.52	0.186	0.68	0.42	0.99	0.148	0.49	0.30	0.70	0.107
May 2022	0.11	0.02	0.19	0.045	0.02	0.00	0.06	0.022	0.08	0.02	0.17	0.040
June 2022	0.40	0.23	0.60	0.102	0.15	0.06	0.27	0.054	0.25	0.11	0.44	0.089
July 2022	1.00	0.67	1.39	0.186	0.30	0.15	0.46	0.081	0.71	0.42	1.08	0.170
August 2022	2.10	0.78	4.02	0.805	0.00	0.00	0.00	0.000	2.10	0.78	4.02	0.805
September 2022	0.42	0.23	0.63	0.103	0.08	0.02	0.17	0.042	0.34	0.17	0.53	0.093
October 2022	0.86	0.49	1.28	0.199	0.28	0.11	0.49	0.097	0.58	0.28	0.94	0.175
November 2022	0.09	0.02	0.19	0.042	0.02	0.00	0.06	0.021	0.06	0.01	0.15	0.037
January 2023	0.14	0.06	0.27	0.056	0.00	0.00	0.00	0.000	0.14	0.06	0.27	0.056
February 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
March 2023	0.14	0.02	0.38	0.102	0.10	0.01	0.32	0.098	0.04	0.00	0.11	0.030
April 2023	0.36	0.19	0.55	0.098	0.13	0.04	0.23	0.050	0.23	0.09	0.40	0.080

Survey	All Behaviours				Sitting Only				Flying Only			
	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD	Estimated Density	LCL	UCL	SD
May 2023	0.32	0.17	0.49	0.081	0.13	0.04	0.23	0.052	0.19	0.09	0.32	0.063
June 2023	0.59	0.35	0.87	0.131	0.11	0.02	0.22	0.047	0.48	0.26	0.74	0.121
July 2023	0.55	0.28	0.87	0.157	0.15	0.02	0.36	0.096	0.40	0.19	0.66	0.123
August 2023	0.40	0.13	0.76	0.164	0.11	0.01	0.32	0.105	0.30	0.08	0.57	0.128
September 2023	0.78	0.33	1.49	0.305	0.13	0.04	0.25	0.053	0.65	0.21	1.36	0.302
October 2023	0.09	0.01	0.25	0.069	0.00	0.00	0.00	0.000	0.09	0.01	0.25	0.069
November 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
December 2023	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
January 2024	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021
February 2024	0.02	0.00	0.06	0.021	0.00	0.00	0.00	0.000	0.02	0.00	0.06	0.021

## 1.21 GLOSSARY OF TERMS AND ABBREVIATIONS

1.21.1.1 A list of key terms and acronyms used in this Appendix are provided in **Table 1-97** and **Table 1-98**.

Table 1-97 Acronyms and abbreviations

Term	Definition
CV	Coefficient of variation
LCL	Lower confidence limit
UCL	Upper confidence limit
SD	Standard Deviation

Table 1-98 Glossary

Term	Meaning
Coefficient of variation	The ratio of the standard deviation to the mean.
Lower confidence limit	Represents the lower bound of a confidence interval.
Upper confidence limit	Represents the upper bound of a confidence interval.
Standard Deviation	A statistic measuring the dispersion of a dataset relative to its mean. It is calculated as the square root of the variance.