

RWE Renewables UK Dogger Bank South (West) Limited

RWE Renewables UK Dogger Bank South (East) Limited

Dogger Bank South Offshore Wind Farms

Environmental Statement

Volume 7

**Appendix 12-12 Seasonal Displacement Matrices
Upper Lower C.I. Abundance**

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Dogger Bank South Offshore Windfarm

Ornithology Technical Appendix 12-12 Seabird Operational Displacement Matrices using Lower and Upper Confidential Intervals

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1 INTRODUCTION

This appendix provides displacement matrices are presented with the upper and lower confidence intervals tables of seabird seasonal and annual abundances for each species recorded during baseline surveys for the DBS Offshore Wind Farms. This is complementary to the ES section 12.5.1.2 These have been derived from the 24 surveyed months (March 2021 – February 2023).

1.1 Gannet

1.1.1 DBS East in Isolation: lower confidence interval

Table 1. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	2	2	2	3	3	4	4
2	1	2	2	3	4	5	6	6	7	8
3	1	2	4	5	6	7	9	10	11	12
4	2	3	5	6	8	10	11	13	15	16
5	2	4	6	8	10	12	14	16	18	20
6	2	5	7	10	12	15	17	19	22	24
7	3	6	9	11	14	17	20	23	26	28
8	3	6	10	13	16	19	23	26	29	32
9	4	7	11	15	18	22	26	29	33	37
10	4	8	12	16	20	24	28	32	37	41
20	8	16	24	32	41	49	57	65	73	81
30	12	24	37	49	61	73	85	97	110	122
50	20	41	61	81	102	122	142	162	183	203
75	30	61	91	122	152	183	213	244	274	305
100	41	81	122	162	203	244	284	325	365	406

Table 2. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	2	2	2	3	3	3	4
2	1	2	2	3	4	5	5	6	7	8
3	1	2	3	5	6	7	8	9	10	11
4	2	3	5	6	8	9	11	12	14	15
5	2	4	6	8	10	11	13	15	17	19
6	2	5	7	9	11	14	16	18	21	23
7	3	5	8	11	13	16	19	21	24	27
8	3	6	9	12	15	18	21	24	28	31
9	3	7	10	14	17	21	24	28	31	34
10	4	8	11	15	19	23	27	31	34	38
20	8	15	23	31	38	46	53	61	69	76
30	11	23	34	46	57	69	80	92	103	115
50	19	38	57	76	96	115	134	153	172	191
75	29	57	86	115	143	172	201	229	258	287
100	38	76	115	153	191	229	267	306	344	382

Table 3. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 4. Dogger Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	2	3	4	5	6	6	7	8
2	2	3	5	6	8	9	11	13	14	16
3	2	5	7	9	12	14	17	19	21	24
4	3	6	9	13	16	19	22	25	28	32
5	4	8	12	16	20	24	28	32	35	39
6	5	9	14	19	24	28	33	38	43	47
7	6	11	17	22	28	33	39	44	50	55
8	6	13	19	25	32	38	44	50	57	63
9	7	14	21	28	35	43	50	57	64	71
10	8	16	24	32	39	47	55	63	71	79
20	16	32	47	63	79	95	110	126	142	158
30	24	47	71	95	118	142	165	189	213	236
50	39	79	118	158	197	236	276	315	355	394
75	59	118	177	236	296	355	414	473	532	591
100	79	158	236	315	394	473	552	630	709	788

1.1.2 DBS East in Isolation: upper confidence interval

Table 5. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	4	5	6	7	9	10	11	12
2	2	5	7	10	12	15	17	20	22	24
3	4	7	11	15	18	22	26	29	33	37
4	5	10	15	20	24	29	34	39	44	49
5	6	12	18	24	30	37	43	49	55	61
6	7	15	22	29	37	44	51	59	66	73
7	9	17	26	34	43	51	60	68	77	85
8	10	20	29	39	49	59	68	78	88	98
9	11	22	33	44	55	66	77	88	99	110
10	12	24	37	49	61	73	85	98	110	122
20	24	49	73	98	122	146	171	195	219	244
30	37	73	110	146	183	219	256	293	329	366
50	61	122	183	244	305	366	427	488	549	610
75	91	183	274	366	457	549	640	731	823	914
100	122	244	366	488	610	731	853	975	1097	1219

Table 6. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	3	4	6	7	9	10	12	13	15
2	3	6	9	12	15	18	21	24	26	29
3	4	9	13	18	22	26	31	35	40	44
4	6	12	18	24	29	35	41	47	53	59
5	7	15	22	29	37	44	52	59	66	74
6	9	18	26	35	44	53	62	71	79	88
7	10	21	31	41	52	62	72	82	93	103
8	12	24	35	47	59	71	82	94	106	118
9	13	26	40	53	66	79	93	106	119	132
10	15	29	44	59	74	88	103	118	132	147
20	29	59	88	118	147	177	206	236	265	294
30	44	88	132	177	221	265	309	353	397	442
50	74	147	221	294	368	442	515	589	662	736
75	110	221	331	442	552	662	773	883	994	1104
100	147	294	442	589	736	883	1030	1178	1325	1472

Table 7. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	1	2	2	3	3	3	4
2	1	1	2	3	4	4	5	6	6	7
3	1	2	3	4	5	6	8	9	10	11
4	1	3	4	6	7	9	10	11	13	14
5	2	4	5	7	9	11	13	14	16	18
6	2	4	6	9	11	13	15	17	19	22
7	3	5	8	10	13	15	18	20	23	25
8	3	6	9	11	14	17	20	23	26	29
9	3	6	10	13	16	19	23	26	29	32
10	4	7	11	14	18	22	25	29	32	36
20	7	14	22	29	36	43	50	57	65	72
30	11	22	32	43	54	65	75	86	97	108
50	18	36	54	72	90	108	126	144	162	180
75	27	54	81	108	135	162	188	215	242	269
100	36	72	108	144	180	215	251	287	323	359

Table 8. Dogger Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East Array Area (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	6	9	12	15	18	21	24	27	31
2	6	12	18	24	31	37	43	49	55	61
3	9	18	27	37	46	55	64	73	82	92
4	12	24	37	49	61	73	85	98	110	122
5	15	31	46	61	76	92	107	122	137	153
6	18	37	55	73	92	110	128	146	165	183
7	21	43	64	85	107	128	149	171	192	214
8	24	49	73	98	122	146	171	195	220	244
9	27	55	82	110	137	165	192	220	247	275
10	31	61	92	122	153	183	214	244	275	305
20	61	122	183	244	305	366	427	488	549	610
30	92	183	275	366	458	549	641	732	824	915
50	153	305	458	610	763	915	1068	1220	1373	1525
75	229	458	686	915	1144	1373	1601	1830	2059	2288
100	305	610	915	1220	1525	1830	2135	2440	2745	3050

1.1.3 DBS West in Isolation: lower confidence interval

Table 9. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	2	2	3	3	3	4	4
2	1	2	3	3	4	5	6	7	8	9
3	1	3	4	5	6	8	9	10	12	13
4	2	3	5	7	9	10	12	14	15	17
5	2	4	6	9	11	13	15	17	19	21
6	3	5	8	10	13	15	18	21	23	26
7	3	6	9	12	15	18	21	24	27	30
8	3	7	10	14	17	21	24	27	31	34
9	4	8	12	15	19	23	27	31	35	39
10	4	9	13	17	21	26	30	34	39	43
20	9	17	26	34	43	51	60	69	77	86
30	13	26	39	51	64	77	90	103	116	129
50	21	43	64	86	107	129	150	172	193	215
75	32	64	97	129	161	193	225	257	290	322
100	43	86	129	172	215	257	300	343	386	429

Table 10. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	1	1	1	1	1	2	2	2
2	0	1	1	2	2	2	3	3	4	4
3	1	1	2	2	3	4	4	5	5	6
4	1	2	2	3	4	5	6	6	7	8
5	1	2	3	4	5	6	7	8	9	10
6	1	2	4	5	6	7	8	10	11	12
7	1	3	4	6	7	8	10	11	13	14
8	2	3	5	6	8	10	11	13	15	16
9	2	4	5	7	9	11	13	15	16	18
10	2	4	6	8	10	12	14	16	18	20
20	4	8	12	16	20	24	28	32	36	40
30	6	12	18	24	30	36	42	48	55	61
50	10	20	30	40	51	61	71	81	91	101
75	15	30	45	61	76	91	106	121	136	152
100	20	40	61	81	101	121	141	162	182	202

Table 11. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 12. Dogger Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	4	5	6	6
2	1	3	4	5	6	8	9	10	11	13
3	2	4	6	8	9	11	13	15	17	19
4	3	5	8	10	13	15	18	20	23	25
5	3	6	9	13	16	19	22	25	28	32
6	4	8	11	15	19	23	27	30	34	38
7	4	9	13	18	22	27	31	35	40	44
8	5	10	15	20	25	30	35	40	45	50
9	6	11	17	23	28	34	40	45	51	57
10	6	13	19	25	32	38	44	50	57	63
20	13	25	38	50	63	76	88	101	114	126
30	19	38	57	76	95	114	133	151	170	189
50	32	63	95	126	158	189	221	252	284	316
75	47	95	142	189	237	284	331	379	426	473
100	63	126	189	252	316	379	442	505	568	631

1.1.4 DBS West in Isolation: upper confidence interval

Table 13. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	3	4	5	7	8	9	11	12	13
2	3	5	8	11	13	16	18	21	24	26
3	4	8	12	16	20	24	28	32	36	39
4	5	11	16	21	26	32	37	42	47	53
5	7	13	20	26	33	39	46	53	59	66
6	8	16	24	32	39	47	55	63	71	79
7	9	18	28	37	46	55	64	74	83	92
8	11	21	32	42	53	63	74	84	95	105
9	12	24	36	47	59	71	83	95	107	118
10	13	26	39	53	66	79	92	105	118	132
20	26	53	79	105	132	158	184	211	237	263
30	39	79	118	158	197	237	276	316	355	395
50	66	132	197	263	329	395	461	526	592	658
75	99	197	296	395	494	592	691	790	888	987
100	132	263	395	526	658	790	921	1053	1184	1316

Table 14. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	2	3	5	6	8	9	11	12	14	15
2	3	6	9	12	15	19	22	25	28	31
3	5	9	14	19	23	28	32	37	42	46
4	6	12	19	25	31	37	43	49	56	62
5	8	15	23	31	39	46	54	62	70	77
6	9	19	28	37	46	56	65	74	83	93
7	11	22	32	43	54	65	76	87	97	108
8	12	25	37	49	62	74	87	99	111	124
9	14	28	42	56	70	83	97	111	125	139
10	15	31	46	62	77	93	108	124	139	155
20	31	62	93	124	155	185	216	247	278	309
30	46	93	139	185	232	278	324	371	417	464
50	77	155	232	309	386	464	541	618	695	773
75	116	232	348	464	579	695	811	927	1043	1159
100	155	309	464	618	773	927	1082	1236	1391	1545

Table 15. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	1	1	1	1	2	2	2	2
2	0	1	1	2	2	3	3	4	4	5
3	1	1	2	3	4	4	5	6	7	7
4	1	2	3	4	5	6	7	8	9	10
5	1	2	4	5	6	7	8	10	11	12
6	1	3	4	6	7	9	10	12	13	14
7	2	3	5	7	8	10	12	13	15	17
8	2	4	6	8	10	12	13	15	17	19
9	2	4	7	9	11	13	15	17	20	22
10	2	5	7	10	12	14	17	19	22	24
20	5	10	14	19	24	29	34	39	43	48
30	7	14	22	29	36	43	51	58	65	72
50	12	24	36	48	60	72	84	96	108	121
75	18	36	54	72	90	108	127	145	163	181
100	24	48	72	96	121	145	169	193	217	241

Table 16. Dogger Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS West Array Area (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	6	9	12	16	19	22	25	28	31
2	6	12	19	25	31	37	43	50	56	62
3	9	19	28	37	47	56	65	74	84	93
4	12	25	37	50	62	74	87	99	112	124
5	16	31	47	62	78	93	109	124	140	155
6	19	37	56	74	93	112	130	149	168	186
7	22	43	65	87	109	130	152	174	195	217
8	25	50	74	99	124	149	174	199	223	248
9	28	56	84	112	140	168	195	223	251	279
10	31	62	93	124	155	186	217	248	279	310
20	62	124	186	248	310	372	434	496	558	620
30	93	186	279	372	465	558	651	744	838	931
50	155	310	465	620	776	931	1086	1241	1396	1551
75	233	465	698	931	1163	1396	1629	1861	2094	2327
100	310	620	931	1241	1551	1861	2171	2482	2792	3102

1.1.5 DBS East and DBS West Together: lower confidence interval

Table 17. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	2	3	4	5	5	6	7	8
2	2	3	5	6	8	9	11	12	14	15
3	2	5	7	9	11	14	16	18	21	23
4	3	6	9	12	15	18	21	24	27	30
5	4	8	11	15	19	23	27	30	34	38
6	5	9	14	18	23	27	32	37	41	46
7	5	11	16	21	27	32	37	43	48	53
8	6	12	18	24	30	37	43	49	55	61
9	7	14	21	27	34	41	48	55	62	69
10	8	15	23	30	38	46	53	61	69	76
20	15	30	46	61	76	91	107	122	137	152
30	23	46	69	91	114	137	160	183	206	229
50	38	76	114	152	191	229	267	305	343	381
75	57	114	171	229	286	343	400	457	514	572
100	76	152	229	305	381	457	533	610	686	762

Table 18. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	5	5	6	7
2	1	3	4	5	7	8	9	10	12	13
3	2	4	6	8	10	12	14	16	18	20
4	3	5	8	10	13	16	18	21	24	26
5	3	7	10	13	16	20	23	26	29	33
6	4	8	12	16	20	24	27	31	35	39
7	5	9	14	18	23	27	32	37	41	46
8	5	10	16	21	26	31	37	42	47	52
9	6	12	18	24	29	35	41	47	53	59
10	7	13	20	26	33	39	46	52	59	65
20	13	26	39	52	65	78	91	104	118	131
30	20	39	59	78	98	118	137	157	176	196
50	33	65	98	131	163	196	229	261	294	327
75	49	98	147	196	245	294	343	392	441	490
100	65	131	196	261	327	392	457	522	588	653

Table 19. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 20. Displacement Matrix Presenting the Lower confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	3	4	6	7	8	10	11	13	14
2	3	6	8	11	14	17	20	23	25	28
3	4	8	13	17	21	25	30	34	38	42
4	6	11	17	23	28	34	40	45	51	57
5	7	14	21	28	35	42	50	57	64	71
6	8	17	25	34	42	51	59	68	76	85
7	10	20	30	40	50	59	69	79	89	99
8	11	23	34	45	57	68	79	91	102	113
9	13	25	38	51	64	76	89	102	115	127
10	14	28	42	57	71	85	99	113	127	142
20	28	57	85	113	142	170	198	226	255	283
30	42	85	127	170	212	255	297	340	382	425
50	71	142	212	283	354	425	495	566	637	708
75	106	212	318	425	531	637	743	849	955	1061
100	142	283	425	566	708	849	991	1132	1274	1415

1.1.6 DBS East and DBS West Together: upper confidence interval

Table 21. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	2	4	6	8	10	12	15	17	19	21
2	4	8	12	17	21	25	29	33	37	41
3	6	12	19	25	31	37	44	50	56	62
4	8	17	25	33	41	50	58	66	75	83
5	10	21	31	41	52	62	73	83	93	104
6	12	25	37	50	62	75	87	100	112	124
7	15	29	44	58	73	87	102	116	131	145
8	17	33	50	66	83	100	116	133	149	166
9	19	37	56	75	93	112	131	149	168	187
10	21	41	62	83	104	124	145	166	187	207
20	41	83	124	166	207	249	290	332	373	415
30	62	124	187	249	311	373	436	498	560	622
50	104	207	311	415	519	622	726	830	933	1037
75	156	311	467	622	778	933	1089	1244	1400	1556
100	207	415	622	830	1037	1244	1452	1659	1867	2074

Table 22. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	6	8	11	14	17	20	23	25	28
2	6	11	17	23	28	34	40	45	51	56
3	8	17	25	34	42	51	59	68	76	85
4	11	23	34	45	56	68	79	90	102	113
5	14	28	42	56	71	85	99	113	127	141
6	17	34	51	68	85	102	119	136	152	169
7	20	40	59	79	99	119	138	158	178	198
8	23	45	68	90	113	136	158	181	203	226
9	25	51	76	102	127	152	178	203	229	254
10	28	56	85	113	141	169	198	226	254	282
20	56	113	169	226	282	339	395	452	508	565
30	85	169	254	339	423	508	593	678	762	847
50	141	282	423	565	706	847	988	1129	1270	1412
75	212	423	635	847	1059	1270	1482	1694	1906	2117
100	282	565	847	1129	1412	1694	1976	2258	2541	2823

Table 23. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	1	2	2	3	3	3	4
2	1	1	2	3	4	4	5	6	7	7
3	1	2	3	4	6	7	8	9	10	11
4	1	3	4	6	7	9	10	12	13	15
5	2	4	6	7	9	11	13	15	17	18
6	2	4	7	9	11	13	15	18	20	22
7	3	5	8	10	13	15	18	21	23	26
8	3	6	9	12	15	18	21	24	27	30
9	3	7	10	13	17	20	23	27	30	33
10	4	7	11	15	18	22	26	30	33	37
20	7	15	22	30	37	44	52	59	66	74
30	11	22	33	44	55	66	77	89	100	111
50	18	37	55	74	92	111	129	148	166	185
75	28	55	83	111	138	166	194	221	249	277
100	37	74	111	148	185	221	258	295	332	369

Table 24. Displacement Matrix Presenting the Upper confidence Interval of Gannets in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season, Autumn and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	5	11	16	21	26	32	37	42	47	53
2	11	21	32	42	53	63	74	84	95	105
3	16	32	47	63	79	95	111	126	142	158
4	21	42	63	84	105	126	147	169	190	211
5	26	53	79	105	132	158	184	211	237	263
6	32	63	95	126	158	190	221	253	284	316
7	37	74	111	147	184	221	258	295	332	369
8	42	84	126	169	211	253	295	337	379	421
9	47	95	142	190	237	284	332	379	427	474
10	53	105	158	211	263	316	369	421	474	527
20	105	211	316	421	527	632	737	843	948	1053
30	158	316	474	632	790	948	1106	1264	1422	1580
50	263	527	790	1053	1317	1580	1843	2106	2370	2633
75	395	790	1185	1580	1975	2370	2765	3160	3555	3950
100	527	1053	1580	2106	2633	3160	3686	4213	4739	5266

1.2 Guillemot

1.2.1 DBS East in Isolation: lower confidence interval

Table 25. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	4	8	11	15	19	23	27	30	34	38
2	8	15	23	30	38	46	53	61	68	76
3	11	23	34	46	57	68	80	91	103	114
4	15	30	46	61	76	91	106	122	137	152
5	19	38	57	76	95	114	133	152	171	190
6	23	46	68	91	114	137	160	182	205	228
7	27	53	80	106	133	160	186	213	239	266
8	30	61	91	122	152	182	213	243	273	304
9	34	68	103	137	171	205	239	273	308	342
10	38	76	114	152	190	228	266	304	342	380
20	76	152	228	304	380	456	532	608	684	760
30	114	228	342	456	570	684	798	912	1025	1139
50	190	380	570	760	950	1139	1329	1519	1709	1899
75	285	570	855	1139	1424	1709	1994	2279	2564	2849
100	380	760	1139	1519	1899	2279	2659	3038	3418	3798

Table 26. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	10	20	31	41	51	61	72	82	92	102
2	20	41	61	82	102	123	143	164	184	205
3	31	61	92	123	153	184	215	245	276	307
4	41	82	123	164	205	245	286	327	368	409
5	51	102	153	205	256	307	358	409	460	511
6	61	123	184	245	307	368	429	491	552	614
7	72	143	215	286	358	429	501	573	644	716
8	82	164	245	327	409	491	573	654	736	818
9	92	184	276	368	460	552	644	736	828	920
10	102	205	307	409	511	614	716	818	920	1023
20	205	409	614	818	1023	1227	1432	1636	1841	2045
30	307	614	920	1227	1534	1841	2147	2454	2761	3068
50	511	1023	1534	2045	2557	3068	3579	4090	4602	5113
75	767	1534	2301	3068	3835	4602	5369	6136	6903	7670
100	1023	2045	3068	4090	5113	6136	7158	8181	9203	10226

Table 27. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	14	28	42	56	70	84	98	112	126	140
2	28	56	84	112	140	168	196	224	252	280
3	42	84	126	168	210	252	295	337	379	421
4	56	112	168	224	280	337	393	449	505	561
5	70	140	210	280	351	421	491	561	631	701
6	84	168	252	337	421	505	589	673	757	841
7	98	196	295	393	491	589	687	785	884	982
8	112	224	337	449	561	673	785	898	1010	1122
9	126	252	379	505	631	757	884	1010	1136	1262
10	140	280	421	561	701	841	982	1122	1262	1402
20	280	561	841	1122	1402	1683	1963	2244	2524	2805
30	421	841	1262	1683	2104	2524	2945	3366	3786	4207
50	701	1402	2104	2805	3506	4207	4908	5610	6311	7012
75	1052	2104	3155	4207	5259	6311	7363	8414	9466	10518
100	1402	2805	4207	5610	7012	8414	9817	11219	12622	14024

1.2.2 DBS East in Isolation: upper confidence interval

Table 28. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	15	29	44	58	73	87	102	117	131	146
2	29	58	87	117	146	175	204	233	262	292
3	44	87	131	175	219	262	306	350	394	437
4	58	117	175	233	292	350	408	466	525	583
5	73	146	219	292	364	437	510	583	656	729
6	87	175	262	350	437	525	612	700	787	875
7	102	204	306	408	510	612	714	816	918	1020
8	117	233	350	466	583	700	816	933	1049	1166
9	131	262	394	525	656	787	918	1049	1181	1312
10	146	292	437	583	729	875	1020	1166	1312	1458
20	292	583	875	1166	1458	1749	2041	2332	2624	2915
30	437	875	1312	1749	2186	2624	3061	3498	3935	4373
50	729	1458	2186	2915	3644	4373	5101	5830	6559	7288
75	1093	2186	3279	4373	5466	6559	7652	8745	9838	10931
100	1458	2915	4373	5830	7288	8745	10203	11660	13118	14575

Table 29. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	15	30	45	59	74	89	104	119	134	148
2	30	59	89	119	148	178	208	237	267	297
3	45	89	134	178	223	267	312	356	401	445
4	59	119	178	237	297	356	415	475	534	593
5	74	148	223	297	371	445	519	593	668	742
6	89	178	267	356	445	534	623	712	801	890
7	104	208	312	415	519	623	727	831	935	1038
8	119	237	356	475	593	712	831	949	1068	1187
9	134	267	401	534	668	801	935	1068	1202	1335
10	148	297	445	593	742	890	1038	1187	1335	1483
20	297	593	890	1187	1483	1780	2077	2373	2670	2967
30	445	890	1335	1780	2225	2670	3115	3560	4005	4450
50	742	1483	2225	2967	3709	4450	5192	5934	6675	7417
75	1113	2225	3338	4450	5563	6675	7788	8900	10013	11126
100	1483	2967	4450	5934	7417	8900	10384	11867	13351	14834

Table 30. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	29	59	88	118	147	176	206	235	265	294
2	59	118	176	235	294	353	412	471	529	588
3	88	176	265	353	441	529	618	706	794	882
4	118	235	353	471	588	706	823	941	1059	1176
5	147	294	441	588	735	882	1029	1176	1323	1470
6	176	353	529	706	882	1059	1235	1412	1588	1765
7	206	412	618	823	1029	1235	1441	1647	1853	2059
8	235	471	706	941	1176	1412	1647	1882	2117	2353
9	265	529	794	1059	1323	1588	1853	2117	2382	2647
10	294	588	882	1176	1470	1765	2059	2353	2647	2941
20	588	1176	1765	2353	2941	3529	4117	4705	5294	5882
30	882	1765	2647	3529	4411	5294	6176	7058	7940	8823
50	1470	2941	4411	5882	7352	8823	10293	11764	13234	14705
75	2206	4411	6617	8823	11028	13234	15440	17645	19851	22057
100	2941	5882	8823	11764	14705	17645	20586	23527	26468	29409

1.2.3 DBS West in Isolation: lower confidence interval

Table 31. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	6	12	18	23	29	35	41	47	53	59
2	12	23	35	47	59	70	82	94	105	117
3	18	35	53	70	88	105	123	141	158	176
4	23	47	70	94	117	141	164	187	211	234
5	29	59	88	117	146	176	205	234	264	293
6	35	70	105	141	176	211	246	281	316	351
7	41	82	123	164	205	246	287	328	369	410
8	47	94	141	187	234	281	328	375	422	468
9	53	105	158	211	264	316	369	422	474	527
10	59	117	176	234	293	351	410	468	527	586
20	117	234	351	468	586	703	820	937	1054	1171
30	176	351	527	703	878	1054	1230	1405	1581	1757
50	293	586	878	1171	1464	1757	2050	2342	2635	2928
75	439	878	1318	1757	2196	2635	3074	3514	3953	4392
100	586	1171	1757	2342	2928	3514	4099	4685	5270	5856

Table 32. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	2	4	5	7	9	11	12	14	16	18
2	4	7	11	14	18	21	25	28	32	35
3	5	11	16	21	26	32	37	42	47	53
4	7	14	21	28	35	42	49	56	63	70
5	9	18	26	35	44	53	61	70	79	88
6	11	21	32	42	53	63	74	84	95	105
7	12	25	37	49	61	74	86	98	111	123
8	14	28	42	56	70	84	98	112	126	140
9	16	32	47	63	79	95	111	126	142	158
10	18	35	53	70	88	105	123	140	158	175
20	35	70	105	140	175	210	246	281	316	351
30	53	105	158	210	263	316	368	421	474	526
50	88	175	263	351	439	526	614	702	789	877
75	132	263	395	526	658	789	921	1052	1184	1316
100	175	351	526	702	877	1052	1228	1403	1579	1754

Table 33. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	8	15	23	30	38	46	53	61	68	76
2	15	30	46	61	76	91	107	122	137	152
3	23	46	68	91	114	137	160	183	205	228
4	30	61	91	122	152	183	213	244	274	304
5	38	76	114	152	190	228	266	304	342	381
6	46	91	137	183	228	274	320	365	411	457
7	53	107	160	213	266	320	373	426	479	533
8	61	122	183	244	304	365	426	487	548	609
9	68	137	205	274	342	411	479	548	616	685
10	76	152	228	304	381	457	533	609	685	761
20	152	304	457	609	761	913	1065	1218	1370	1522
30	228	457	685	913	1142	1370	1598	1826	2055	2283
50	381	761	1142	1522	1903	2283	2664	3044	3425	3805
75	571	1142	1712	2283	2854	3425	3995	4566	5137	5708
100	761	1522	2283	3044	3805	4566	5327	6088	6849	7610

1.2.4 DBS West in Isolation: upper confidence interval

Table 34. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	12	25	37	49	61	74	86	98	110	123
2	25	49	74	98	123	147	172	196	221	245
3	37	74	110	147	184	221	258	294	331	368
4	49	98	147	196	245	294	344	393	442	491
5	61	123	184	245	307	368	429	491	552	613
6	74	147	221	294	368	442	515	589	663	736
7	86	172	258	344	429	515	601	687	773	859
8	98	196	294	393	491	589	687	785	883	982
9	110	221	331	442	552	663	773	883	994	1104
10	123	245	368	491	613	736	859	982	1104	1227
20	245	491	736	982	1227	1472	1718	1963	2208	2454
30	368	736	1104	1472	1840	2208	2576	2945	3313	3681
50	613	1227	1840	2454	3067	3681	4294	4908	5521	6135
75	920	1840	2761	3681	4601	5521	6441	7361	8282	9202
100	1227	2454	3681	4908	6135	7361	8588	9815	11042	12269

Table 35. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	31	62	94	125	156	187	218	250	281	312
2	62	125	187	250	312	374	437	499	562	624
3	94	187	281	374	468	562	655	749	842	936
4	125	250	374	499	624	749	874	998	1123	1248
5	156	312	468	624	780	936	1092	1248	1404	1560
6	187	374	562	749	936	1123	1310	1498	1685	1872
7	218	437	655	874	1092	1310	1529	1747	1966	2184
8	250	499	749	998	1248	1498	1747	1997	2246	2496
9	281	562	842	1123	1404	1685	1966	2246	2527	2808
10	312	624	936	1248	1560	1872	2184	2496	2808	3120
20	624	1248	1872	2496	3120	3744	4368	4992	5616	6240
30	936	1872	2808	3744	4680	5616	6552	7488	8424	9360
50	1560	3120	4680	6240	7800	9360	10920	12480	14040	15600
75	2340	4680	7020	9360	11700	14040	16379	18719	21059	23399
100	3120	6240	9360	12480	15600	18719	21839	24959	28079	31199

Table 36. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS West Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	43	87	130	174	217	261	304	348	391	435
2	87	174	261	348	435	522	609	695	782	869
3	130	261	391	522	652	782	913	1043	1174	1304
4	174	348	522	695	869	1043	1217	1391	1565	1739
5	217	435	652	869	1087	1304	1521	1739	1956	2173
6	261	522	782	1043	1304	1565	1826	2086	2347	2608
7	304	609	913	1217	1521	1826	2130	2434	2738	3043
8	348	695	1043	1391	1739	2086	2434	2782	3130	3477
9	391	782	1174	1565	1956	2347	2738	3130	3521	3912
10	435	869	1304	1739	2173	2608	3043	3477	3912	4347
20	869	1739	2608	3477	4347	5216	6086	6955	7824	8694
30	1304	2608	3912	5216	6520	7824	9128	10432	11736	13040
50	2173	4347	6520	8694	10867	13040	15214	17387	19561	21734
75	3260	6520	9780	13040	16301	19561	22821	26081	29341	32601
100	4347	8694	13040	17387	21734	26081	30428	34774	39121	43468

1.2.5 DBS East and DBS West Together: lower confidence interval

Table 37. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	6	12	18	24	31	37	43	49	55	61
2	12	24	37	49	61	73	86	98	110	122
3	18	37	55	73	92	110	128	147	165	183
4	24	49	73	98	122	147	171	196	220	244
5	31	61	92	122	153	183	214	244	275	306
6	37	73	110	147	183	220	257	293	330	367
7	43	86	128	171	214	257	299	342	385	428
8	49	98	147	196	244	293	342	391	440	489
9	55	110	165	220	275	330	385	440	495	550
10	61	122	183	244	306	367	428	489	550	611
20	122	244	367	489	611	733	855	978	1100	1222
30	183	367	550	733	917	1100	1283	1466	1650	1833
50	306	611	917	1222	1528	1833	2139	2444	2750	3055
75	458	917	1375	1833	2291	2750	3208	3666	4124	4583
100	611	1222	1833	2444	3055	3666	4277	4888	5499	6110

Table 38. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	7	10	13	16	20	23	26	29	33
2	7	13	20	26	33	39	46	52	59	65
3	10	20	29	39	49	59	69	79	88	98
4	13	26	39	52	65	79	92	105	118	131
5	16	33	49	65	82	98	115	131	147	164
6	20	39	59	79	98	118	137	157	177	196
7	23	46	69	92	115	137	160	183	206	229
8	26	52	79	105	131	157	183	209	236	262
9	29	59	88	118	147	177	206	236	265	294
10	33	65	98	131	164	196	229	262	294	327
20	65	131	196	262	327	393	458	524	589	654
30	98	196	294	393	491	589	687	785	883	982
50	164	327	491	654	818	982	1145	1309	1472	1636
75	245	491	736	982	1227	1472	1718	1963	2209	2454
100	327	654	982	1309	1636	1963	2290	2618	2945	3272

Table 39. Displacement Matrix Presenting the Lower confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	9	19	28	38	47	56	66	75	84	94
2	19	38	56	75	94	113	131	150	169	188
3	28	56	84	113	141	169	197	225	253	281
4	38	75	113	150	188	225	263	300	338	375
5	47	94	141	188	235	281	328	375	422	469
6	56	113	169	225	281	338	394	450	507	563
7	66	131	197	263	328	394	460	525	591	657
8	75	150	225	300	375	450	525	600	676	751
9	84	169	253	338	422	507	591	676	760	844
10	94	188	281	375	469	563	657	751	844	938
20	188	375	563	751	938	1126	1313	1501	1689	1876
30	281	563	844	1126	1407	1689	1970	2252	2533	2815
50	469	938	1407	1876	2346	2815	3284	3753	4222	4691
75	704	1407	2111	2815	3518	4222	4926	5629	6333	7037
100	938	1876	2815	3753	4691	5629	6567	7506	8444	9382

1.2.6 DBS East and DBS West Together: upper confidence interval

Table 40. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	25	49	74	98	123	148	172	197	221	246
2	49	98	148	197	246	295	344	393	443	492
3	74	148	221	295	369	443	516	590	664	738
4	98	197	295	393	492	590	688	787	885	984
5	123	246	369	492	615	738	861	984	1106	1229
6	148	295	443	590	738	885	1033	1180	1328	1475
7	172	344	516	688	861	1033	1205	1377	1549	1721
8	197	393	590	787	984	1180	1377	1574	1770	1967
9	221	443	664	885	1106	1328	1549	1770	1992	2213
10	246	492	738	984	1229	1475	1721	1967	2213	2459
20	492	984	1475	1967	2459	2951	3442	3934	4426	4918
30	738	1475	2213	2951	3688	4426	5163	5901	6639	7376
50	1229	2459	3688	4918	6147	7376	8606	9835	11065	12294
75	1844	3688	5532	7376	9221	11065	12909	14753	16597	18441
100	2459	4918	7376	9835	12294	14753	17212	19670	22129	24588

Table 41. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	46	93	139	186	232	278	325	371	418	464
2	93	186	278	371	464	557	650	743	835	928
3	139	278	418	557	696	835	975	1114	1253	1392
4	186	371	557	743	928	1114	1300	1485	1671	1857
5	232	464	696	928	1160	1392	1625	1857	2089	2321
6	278	557	835	1114	1392	1671	1949	2228	2506	2785
7	325	650	975	1300	1625	1949	2274	2599	2924	3249
8	371	743	1114	1485	1857	2228	2599	2971	3342	3713
9	418	835	1253	1671	2089	2506	2924	3342	3760	4177
10	464	928	1392	1857	2321	2785	3249	3713	4177	4642
20	928	1857	2785	3713	4642	5570	6498	7426	8355	9283
30	1392	2785	4177	5570	6962	8355	9747	11140	12532	13925
50	2321	4642	6962	9283	11604	13925	16245	18566	20887	23208
75	3481	6962	10443	13925	17406	20887	24368	27849	31330	34811
100	4642	9283	13925	18566	23208	27849	32491	37132	41774	46415

Table 42. Displacement Matrix Presenting the Upper confidence Interval of Guillemot in the DBS East and West Array Areas (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	71	142	213	284	355	426	497	568	639	710
2	142	284	426	568	710	852	994	1136	1278	1420
3	213	426	639	852	1065	1278	1491	1704	1917	2130
4	284	568	852	1136	1420	1704	1988	2272	2556	2840
5	355	710	1065	1420	1775	2130	2485	2840	3195	3550
6	426	852	1278	1704	2130	2556	2982	3408	3834	4260
7	497	994	1491	1988	2485	2982	3479	3976	4473	4970
8	568	1136	1704	2272	2840	3408	3976	4544	5112	5680
9	639	1278	1917	2556	3195	3834	4473	5112	5751	6390
10	710	1420	2130	2840	3550	4260	4970	5680	6390	7100
20	1420	2840	4260	5680	7100	8520	9940	11360	12781	14201
30	2130	4260	6390	8520	10650	12781	14911	17041	19171	21301
50	3550	7100	10650	14201	17751	21301	24851	28401	31951	35502
75	5325	10650	15976	21301	26626	31951	37277	42602	47927	53252
100	7100	14201	21301	28401	35502	42602	49702	56802	63903	71003

1.3 Razorbill

1.3.1 DBS East in Isolation: lower confidence interval

Table 43. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	1	1	1	1	2	2	2	2
2	0	1	1	2	2	3	3	4	4	4
3	1	1	2	3	3	4	5	5	6	7
4	1	2	3	4	4	5	6	7	8	9
5	1	2	3	4	6	7	8	9	10	11
6	1	3	4	5	7	8	9	11	12	13
7	2	3	5	6	8	9	11	12	14	16
8	2	4	5	7	9	11	12	14	16	18
9	2	4	6	8	10	12	14	16	18	20
10	2	4	7	9	11	13	16	18	20	22
20	4	9	13	18	22	27	31	36	40	44
30	7	13	20	27	33	40	47	53	60	67
50	11	22	33	44	56	67	78	89	100	111
75	17	33	50	67	83	100	117	133	150	167
100	22	44	67	89	111	133	155	178	200	222

Table 44. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	1
2	0	0	0	0	1	1	1	1	1	1
3	0	0	0	1	1	1	1	1	1	2
4	0	0	1	1	1	1	2	2	2	2
5	0	1	1	1	1	2	2	2	2	3
6	0	1	1	1	2	2	2	3	3	3
7	0	1	1	2	2	2	3	3	3	4
8	0	1	1	2	2	3	3	3	4	4
9	0	1	1	2	2	3	3	4	4	5
10	1	1	2	2	3	3	4	4	5	5
20	1	2	3	4	5	6	8	9	10	11
30	2	3	5	6	8	10	11	13	15	16
50	3	5	8	11	14	16	19	22	24	27
75	4	8	12	16	20	24	28	32	36	41
100	5	11	16	22	27	32	38	43	49	54

Table 45. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	5	8	10	13	15	18	21	23	26
2	5	10	15	21	26	31	36	41	46	52
3	8	15	23	31	39	46	54	62	70	77
4	10	21	31	41	52	62	72	83	93	103
5	13	26	39	52	65	77	90	103	116	129
6	15	31	46	62	77	93	108	124	139	155
7	18	36	54	72	90	108	126	144	163	181
8	21	41	62	83	103	124	144	165	186	206
9	23	46	70	93	116	139	163	186	209	232
10	26	52	77	103	129	155	181	206	232	258
20	52	103	155	206	258	310	361	413	464	516
30	77	155	232	310	387	464	542	619	697	774
50	129	258	387	516	645	774	903	1032	1161	1290
75	194	387	581	774	968	1161	1355	1548	1742	1935
100	258	516	774	1032	1290	1548	1806	2064	2322	2580

Table 46. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	2	3	3	4	4	5	5
2	1	2	3	4	5	7	8	9	10	11
3	2	3	5	7	8	10	12	13	15	16
4	2	4	7	9	11	13	15	18	20	22
5	3	5	8	11	14	16	19	22	25	27
6	3	7	10	13	16	20	23	26	30	33
7	4	8	12	15	19	23	27	31	35	38
8	4	9	13	18	22	26	31	35	39	44
9	5	10	15	20	25	30	35	39	44	49
10	5	11	16	22	27	33	38	44	49	55
20	11	22	33	44	55	66	77	88	99	110
30	16	33	49	66	82	99	115	132	148	164
50	27	55	82	110	137	164	192	219	247	274
75	41	82	123	164	206	247	288	329	370	411
100	55	110	164	219	274	329	384	438	493	548

Table 47. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	3	7	10	14	17	20	24	27	31	34
2	7	14	20	27	34	41	48	54	61	68
3	10	20	31	41	51	61	71	82	92	102
4	14	27	41	54	68	82	95	109	123	136
5	17	34	51	68	85	102	119	136	153	170
6	20	41	61	82	102	123	143	163	184	204
7	24	48	71	95	119	143	167	191	214	238
8	27	54	82	109	136	163	191	218	245	272
9	31	61	92	123	153	184	214	245	276	306
10	34	68	102	136	170	204	238	272	306	340
20	68	136	204	272	340	408	477	545	613	681
30	102	204	306	408	511	613	715	817	919	1021
50	170	340	511	681	851	1021	1191	1362	1532	1702
75	255	511	766	1021	1277	1532	1787	2042	2298	2553
100	340	681	1021	1362	1702	2042	2383	2723	3064	3404

1.3.2 DBS East in Isolation: upper confidence interval

Table 48. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	73	81
9	9	18	27	36	45	54	63	73	82	91
10	10	20	30	40	50	60	70	81	91	101
20	20	40	60	81	101	121	141	161	181	201
30	30	60	91	121	151	181	211	242	272	302
50	50	101	151	201	252	302	352	403	453	504
75	76	151	227	302	378	453	529	604	680	755
100	101	201	302	403	504	604	705	806	906	1007

Table 49. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	14	29	43	57	72	86	100	115	129	143
2	29	57	86	115	143	172	200	229	258	286
3	43	86	129	172	215	258	301	344	387	430
4	57	115	172	229	286	344	401	458	515	573
5	72	143	215	286	358	430	501	573	644	716
6	86	172	258	344	430	515	601	687	773	859
7	100	200	301	401	501	601	702	802	902	1002
8	115	229	344	458	573	687	802	916	1031	1146
9	129	258	387	515	644	773	902	1031	1160	1289
10	143	286	430	573	716	859	1002	1146	1289	1432
20	286	573	859	1146	1432	1718	2005	2291	2577	2864
30	430	859	1289	1718	2148	2577	3007	3437	3866	4296
50	716	1432	2148	2864	3580	4296	5012	5728	6444	7160
75	1074	2148	3222	4296	5370	6444	7517	8591	9665	10739
100	1432	2864	4296	5728	7160	8591	10023	11455	12887	14319

Table 50. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	15	29	44	58	73	88	102	117	131	146
2	29	58	88	117	146	175	204	234	263	292
3	44	88	131	175	219	263	307	350	394	438
4	58	117	175	234	292	350	409	467	526	584
5	73	146	219	292	365	438	511	584	657	730
6	88	175	263	350	438	526	613	701	788	876
7	102	204	307	409	511	613	715	818	920	1022
8	117	234	350	467	584	701	818	934	1051	1168
9	131	263	394	526	657	788	920	1051	1183	1314
10	146	292	438	584	730	876	1022	1168	1314	1460
20	292	584	876	1168	1460	1752	2044	2336	2628	2920
30	438	876	1314	1752	2190	2628	3066	3504	3942	4380
50	730	1460	2190	2920	3650	4380	5110	5840	6570	7300
75	1095	2190	3285	4380	5475	6570	7664	8759	9854	10949
100	1460	2920	4380	5840	7300	8759	10219	11679	13139	14599

Table 51. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	4	9	13	17	22	26	30	35	39	43
2	9	17	26	35	43	52	61	69	78	86
3	13	26	39	52	65	78	91	104	117	130
4	17	35	52	69	86	104	121	138	156	173
5	22	43	65	86	108	130	151	173	195	216
6	26	52	78	104	130	156	182	208	233	259
7	30	61	91	121	151	182	212	242	272	303
8	35	69	104	138	173	208	242	277	311	346
9	39	78	117	156	195	233	272	311	350	389
10	43	86	130	173	216	259	303	346	389	432
20	86	173	259	346	432	519	605	692	778	865
30	130	259	389	519	649	778	908	1038	1167	1297
50	216	432	649	865	1081	1297	1513	1730	1946	2162
75	324	649	973	1297	1622	1946	2270	2594	2919	3243
100	432	865	1297	1730	2162	2594	3027	3459	3892	4324

Table 52. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East Array Area (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	34	68	103	137	171	205	240	274	308	342
2	68	137	205	274	342	411	479	548	616	685
3	103	205	308	411	514	616	719	822	925	1027
4	137	274	411	548	685	822	959	1096	1233	1370
5	171	342	514	685	856	1027	1199	1370	1541	1712
6	205	411	616	822	1027	1233	1438	1644	1849	2055
7	240	479	719	959	1199	1438	1678	1918	2158	2397
8	274	548	822	1096	1370	1644	1918	2192	2466	2740
9	308	616	925	1233	1541	1849	2158	2466	2774	3082
10	342	685	1027	1370	1712	2055	2397	2740	3082	3425
20	685	1370	2055	2740	3425	4110	4795	5480	6165	6850
30	1027	2055	3082	4110	5137	6165	7192	8220	9247	10275
50	1712	3425	5137	6850	8562	10275	11987	13700	15412	17125
75	2569	5137	7706	10275	12843	15412	17981	20549	23118	25687
100	3425	6850	10275	13700	17125	20549	23974	27399	30824	34249

1.3.3 DBS West in Isolation: lower confidence interval

Table 53. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	4	4	5	6	6	7
2	1	3	4	6	7	9	10	12	13	14
3	2	4	6	9	11	13	15	17	19	22
4	3	6	9	12	14	17	20	23	26	29
5	4	7	11	14	18	22	25	29	32	36
6	4	9	13	17	22	26	30	35	39	43
7	5	10	15	20	25	30	35	40	45	51
8	6	12	17	23	29	35	40	46	52	58
9	6	13	19	26	32	39	45	52	58	65
10	7	14	22	29	36	43	51	58	65	72
20	14	29	43	58	72	87	101	116	130	144
30	22	43	65	87	108	130	152	173	195	217
50	36	72	108	144	181	217	253	289	325	361
75	54	108	162	217	271	325	379	433	487	542
100	72	144	217	289	361	433	505	578	650	722

Table 54. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	1	1	1	1
3	0	0	0	0	1	1	1	1	1	1
4	0	0	0	1	1	1	1	1	1	2
5	0	0	1	1	1	1	1	2	2	2
6	0	0	1	1	1	1	2	2	2	2
7	0	1	1	1	1	2	2	2	3	3
8	0	1	1	1	2	2	2	3	3	3
9	0	1	1	1	2	2	3	3	3	4
10	0	1	1	2	2	2	3	3	4	4
20	1	2	2	3	4	5	6	7	7	8
30	1	2	4	5	6	7	9	10	11	12
50	2	4	6	8	10	12	14	16	18	21
75	3	6	9	12	15	18	22	25	28	31
100	4	8	12	16	21	25	29	33	37	41

Table 55. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	2	3	3	4	5	5	6
2	1	2	3	5	6	7	8	9	10	12
3	2	3	5	7	9	10	12	14	16	17
4	2	5	7	9	12	14	16	19	21	23
5	3	6	9	12	15	17	20	23	26	29
6	3	7	10	14	17	21	24	28	31	35
7	4	8	12	16	20	24	29	33	37	41
8	5	9	14	19	23	28	33	37	42	47
9	5	10	16	21	26	31	37	42	47	52
10	6	12	17	23	29	35	41	47	52	58
20	12	23	35	47	58	70	81	93	105	116
30	17	35	52	70	87	105	122	140	157	175
50	29	58	87	116	146	175	204	233	262	291
75	44	87	131	175	218	262	306	349	393	437
100	58	116	175	233	291	349	407	466	524	582

Table 56. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	4	5	6	6
2	1	3	4	5	6	8	9	10	12	13
3	2	4	6	8	10	12	13	15	17	19
4	3	5	8	10	13	15	18	20	23	26
5	3	6	10	13	16	19	22	26	29	32
6	4	8	12	15	19	23	27	31	35	38
7	4	9	13	18	22	27	31	36	40	45
8	5	10	15	20	26	31	36	41	46	51
9	6	12	17	23	29	35	40	46	52	58
10	6	13	19	26	32	38	45	51	58	64
20	13	26	38	51	64	77	89	102	115	128
30	19	38	58	77	96	115	134	153	173	192
50	32	64	96	128	160	192	224	256	288	320
75	48	96	144	192	240	288	335	383	431	479
100	64	128	192	256	320	383	447	511	575	639

Table 57. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	2	4	6	8	10	12	14	16	18	20
2	4	8	12	16	20	24	28	32	36	40
3	6	12	18	24	30	36	42	48	54	60
4	8	16	24	32	40	48	56	63	71	79
5	10	20	30	40	50	60	69	79	89	99
6	12	24	36	48	60	71	83	95	107	119
7	14	28	42	56	69	83	97	111	125	139
8	16	32	48	63	79	95	111	127	143	159
9	18	36	54	71	89	107	125	143	161	179
10	20	40	60	79	99	119	139	159	179	198
20	40	79	119	159	198	238	278	317	357	397
30	60	119	179	238	298	357	417	476	536	595
50	99	198	298	397	496	595	694	794	893	992
75	149	298	446	595	744	893	1042	1190	1339	1488
100	198	397	595	794	992	1190	1389	1587	1786	1984

1.3.4 DBS West in Isolation: upper confidence interval

Table 58. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	4	8	12	16	21	25	29	33	37	41
2	8	16	25	33	41	49	58	66	74	82
3	12	25	37	49	62	74	86	99	111	123
4	16	33	49	66	82	99	115	131	148	164
5	21	41	62	82	103	123	144	164	185	205
6	25	49	74	99	123	148	173	197	222	247
7	29	58	86	115	144	173	201	230	259	288
8	33	66	99	131	164	197	230	263	296	329
9	37	74	111	148	185	222	259	296	333	370
10	41	82	123	164	205	247	288	329	370	411
20	82	164	247	329	411	493	575	657	740	822
30	123	247	370	493	616	740	863	986	1109	1233
50	205	411	616	822	1027	1233	1438	1644	1849	2055
75	308	616	925	1233	1541	1849	2157	2465	2774	3082
100	411	822	1233	1644	2055	2465	2876	3287	3698	4109

Table 59. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	21	41	62	82	103	123	144	165	185	206
2	41	82	123	165	206	247	288	329	370	411
3	62	123	185	247	309	370	432	494	555	617
4	82	165	247	329	411	494	576	658	741	823
5	103	206	309	411	514	617	720	823	926	1029
6	123	247	370	494	617	741	864	988	1111	1234
7	144	288	432	576	720	864	1008	1152	1296	1440
8	165	329	494	658	823	988	1152	1317	1481	1646
9	185	370	555	741	926	1111	1296	1481	1666	1852
10	206	411	617	823	1029	1234	1440	1646	1852	2057
20	411	823	1234	1646	2057	2469	2880	3292	3703	4115
30	617	1234	1852	2469	3086	3703	4321	4938	5555	6172
50	1029	2057	3086	4115	5144	6172	7201	8230	9258	10287
75	1543	3086	4629	6172	7715	9258	10801	12344	13887	15431
100	2057	4115	6172	8230	10287	12344	14402	16459	18517	20574

Table 60. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	11	23	34	46	57	69	80	92	103	115
2	23	46	69	92	115	138	161	184	207	230
3	34	69	103	138	172	207	241	276	310	345
4	46	92	138	184	230	276	322	368	413	459
5	57	115	172	230	287	345	402	459	517	574
6	69	138	207	276	345	413	482	551	620	689
7	80	161	241	322	402	482	563	643	724	804
8	92	184	276	368	459	551	643	735	827	919
9	103	207	310	413	517	620	724	827	930	1034
10	115	230	345	459	574	689	804	919	1034	1149
20	230	459	689	919	1149	1378	1608	1838	2067	2297
30	345	689	1034	1378	1723	2067	2412	2756	3101	3446
50	574	1149	1723	2297	2871	3446	4020	4594	5168	5743
75	861	1723	2584	3446	4307	5168	6030	6891	7752	8614
100	1149	2297	3446	4594	5743	6891	8040	9188	10337	11485

Table 61. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	10	19	29	38	48	57	67	76	86	95
2	19	38	57	76	95	114	134	153	172	191
3	29	57	86	114	143	172	200	229	258	286
4	38	76	114	153	191	229	267	305	343	382
5	48	95	143	191	239	286	334	382	429	477
6	57	114	172	229	286	343	401	458	515	572
7	67	134	200	267	334	401	468	534	601	668
8	76	153	229	305	382	458	534	611	687	763
9	86	172	258	343	429	515	601	687	773	859
10	95	191	286	382	477	572	668	763	859	954
20	191	382	572	763	954	1145	1336	1527	1717	1908
30	286	572	859	1145	1431	1717	2004	2290	2576	2862
50	477	954	1431	1908	2385	2862	3339	3816	4293	4771
75	716	1431	2147	2862	3578	4293	5009	5725	6440	7156
100	954	1908	2862	3816	4771	5725	6679	7633	8587	9541

Table 62. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS West Array Area (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted)

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	46	91	137	183	229	274	320	366	411	457
2	91	183	274	366	457	549	640	731	823	914
3	137	274	411	549	686	823	960	1097	1234	1371
4	183	366	549	731	914	1097	1280	1463	1646	1828
5	229	457	686	914	1143	1371	1600	1828	2057	2285
6	274	549	823	1097	1371	1646	1920	2194	2468	2743
7	320	640	960	1280	1600	1920	2240	2560	2880	3200
8	366	731	1097	1463	1828	2194	2560	2925	3291	3657
9	411	823	1234	1646	2057	2468	2880	3291	3702	4114
10	457	914	1371	1828	2285	2743	3200	3657	4114	4571
20	914	1828	2743	3657	4571	5485	6399	7313	8228	9142
30	1371	2743	4114	5485	6856	8228	9599	10970	12341	13713
50	2285	4571	6856	9142	11427	13713	15998	18284	20569	22855
75	3428	6856	10285	13713	17141	20569	23997	27425	30854	34282
100	4571	9142	13713	18284	22855	27425	31996	36567	41138	45709

1.3.5 DBS East and DBS West Together: lower confidence interval

Table 63. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	3	4	5	6	7	8	9	11
2	2	4	6	8	11	13	15	17	19	21
3	3	6	9	13	16	19	22	25	28	32
4	4	8	13	17	21	25	29	34	38	42
5	5	11	16	21	26	32	37	42	47	53
6	6	13	19	25	32	38	44	50	57	63
7	7	15	22	29	37	44	52	59	66	74
8	8	17	25	34	42	50	59	67	76	84
9	9	19	28	38	47	57	66	76	85	95
10	11	21	32	42	53	63	74	84	95	105
20	21	42	63	84	105	126	147	168	189	210
30	32	63	95	126	158	189	221	252	284	316
50	53	105	158	210	263	316	368	421	473	526
75	79	158	237	316	395	473	552	631	710	789
100	105	210	316	421	526	631	736	842	947	1052

Table 64. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	1	1	1
2	0	0	0	1	1	1	1	1	1	1
3	0	0	1	1	1	1	1	2	2	2
4	0	1	1	1	1	2	2	2	2	3
5	0	1	1	1	2	2	2	3	3	3
6	0	1	1	2	2	2	3	3	3	4
7	0	1	1	2	2	3	3	4	4	4
8	1	1	2	2	3	3	4	4	5	5
9	1	1	2	2	3	3	4	5	5	6
10	1	1	2	3	3	4	4	5	6	6
20	1	3	4	5	6	8	9	10	12	13
30	2	4	6	8	10	12	13	15	17	19
50	3	6	10	13	16	19	22	26	29	32
75	5	10	14	19	24	29	34	38	43	48
100	6	13	19	26	32	38	45	51	58	64

Table 65. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	5	5	6	7
2	1	3	4	5	7	8	9	11	12	13
3	2	4	6	8	10	12	14	16	18	20
4	3	5	8	11	13	16	19	21	24	27
5	3	7	10	13	17	20	23	27	30	33
6	4	8	12	16	20	24	28	32	36	40
7	5	9	14	19	23	28	33	37	42	47
8	5	11	16	21	27	32	37	43	48	53
9	6	12	18	24	30	36	42	48	54	60
10	7	13	20	27	33	40	47	53	60	67
20	13	27	40	53	67	80	93	107	120	133
30	20	40	60	80	100	120	140	160	180	200
50	33	67	100	133	167	200	233	267	300	334
75	50	100	150	200	250	300	350	400	450	500
100	67	133	200	267	334	400	467	534	600	667

Table 66. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	2	4	6	8	9	11	13	15	17	19
2	4	8	11	15	19	23	26	30	34	38
3	6	11	17	23	28	34	40	45	51	57
4	8	15	23	30	38	45	53	60	68	76
5	9	19	28	38	47	57	66	76	85	95
6	11	23	34	45	57	68	79	91	102	113
7	13	26	40	53	66	79	93	106	119	132
8	15	30	45	60	76	91	106	121	136	151
9	17	34	51	68	85	102	119	136	153	170
10	19	38	57	76	95	113	132	151	170	189
20	38	76	113	151	189	227	265	302	340	378
30	57	113	170	227	284	340	397	454	510	567
50	95	189	284	378	473	567	662	756	851	945
75	142	284	425	567	709	851	992	1134	1276	1418
100	189	378	567	756	945	1134	1323	1512	1701	1890

Table 67. Displacement Matrix Presenting the Lower confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	4	7	11	15	18	22	26	29	33	37
2	7	15	22	29	37	44	51	59	66	73
3	11	22	33	44	55	66	77	88	99	110
4	15	29	44	59	73	88	103	118	132	147
5	18	37	55	73	92	110	129	147	165	184
6	22	44	66	88	110	132	154	176	198	220
7	26	51	77	103	129	154	180	206	231	257
8	29	59	88	118	147	176	206	235	264	294
9	33	66	99	132	165	198	231	264	298	331
10	37	73	110	147	184	220	257	294	331	367
20	73	147	220	294	367	441	514	588	661	735
30	110	220	331	441	551	661	771	882	992	1102
50	184	367	551	735	918	1102	1286	1469	1653	1837
75	275	551	826	1102	1377	1653	1928	2204	2479	2755
100	367	735	1102	1469	1837	2204	2571	2938	3306	3673

1.3.6 DBS East and DBS West Together: upper confidence interval

Table 68. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	5	10	15	19	24	29	34	39	44	49
2	10	19	29	39	49	58	68	78	87	97
3	15	29	44	58	73	87	102	116	131	146
4	19	39	58	78	97	116	136	155	175	194
5	24	49	73	97	121	146	170	194	218	243
6	29	58	87	116	146	175	204	233	262	291
7	34	68	102	136	170	204	238	272	306	340
8	39	78	116	155	194	233	272	310	349	388
9	44	87	131	175	218	262	306	349	393	437
10	49	97	146	194	243	291	340	388	437	485
20	97	194	291	388	485	582	679	776	873	970
30	146	291	437	582	728	873	1019	1164	1310	1455
50	243	485	728	970	1213	1455	1698	1940	2183	2425
75	364	728	1091	1455	1819	2183	2546	2910	3274	3638
100	485	970	1455	1940	2425	2910	3395	3880	4365	4850

Table 69. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Autumn Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	18	37	55	74	92	111	129	148	166	185
2	37	74	111	148	185	222	259	296	333	370
3	55	111	166	222	277	333	388	444	499	554
4	74	148	222	296	370	444	518	591	665	739
5	92	185	277	370	462	554	647	739	832	924
6	111	222	333	444	554	665	776	887	998	1109
7	129	259	388	518	647	776	906	1035	1164	1294
8	148	296	444	591	739	887	1035	1183	1331	1479
9	166	333	499	665	832	998	1164	1331	1497	1663
10	185	370	554	739	924	1109	1294	1479	1663	1848
20	370	739	1109	1479	1848	2218	2588	2957	3327	3697
30	554	1109	1663	2218	2772	3327	3881	4436	4990	5545
50	924	1848	2772	3697	4621	5545	6469	7393	8317	9242
75	1386	2772	4159	5545	6931	8317	9704	11090	12476	13862
100	1848	3697	5545	7393	9242	11090	12938	14786	16635	18483

Table 70. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Winter Period Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	13	26	39	52	65	78	91	104	117	130
2	26	52	78	104	130	156	182	208	234	260
3	39	78	117	156	195	234	273	312	351	390
4	52	104	156	208	260	312	364	416	468	519
5	65	130	195	260	325	390	455	519	584	649
6	78	156	234	312	390	468	545	623	701	779
7	91	182	273	364	455	545	636	727	818	909
8	104	208	312	416	519	623	727	831	935	1039
9	117	234	351	468	584	701	818	935	1052	1169
10	130	260	390	519	649	779	909	1039	1169	1299
20	260	519	779	1039	1299	1558	1818	2078	2338	2597
30	390	779	1169	1558	1948	2338	2727	3117	3506	3896
50	649	1299	1948	2597	3247	3896	4545	5195	5844	6494
75	974	1948	2922	3896	4870	5844	6818	7792	8766	9740
100	1299	2597	3896	5195	6494	7792	9091	10390	11688	12987

Table 71. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Spring Migration Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	10	19	29	38	48	57	67	77	86	96
2	19	38	57	77	96	115	134	153	172	191
3	29	57	86	115	144	172	201	230	258	287
4	38	77	115	153	191	230	268	306	345	383
5	48	96	144	191	239	287	335	383	431	479
6	57	115	172	230	287	345	402	460	517	574
7	67	134	201	268	335	402	469	536	603	670
8	77	153	230	306	383	460	536	613	689	766
9	86	172	258	345	431	517	603	689	775	862
10	96	191	287	383	479	574	670	766	862	957
20	191	383	574	766	957	1149	1340	1532	1723	1915
30	287	574	862	1149	1436	1723	2011	2298	2585	2872
50	479	957	1436	1915	2394	2872	3351	3830	4308	4787
75	718	1436	2154	2872	3590	4308	5026	5744	6462	7181
100	957	1915	2872	3830	4787	5744	6702	7659	8617	9574

Table 72. Displacement Matrix Presenting the Upper confidence Interval of Razorbill in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season, Autumn, Winter and Spring Migration Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	46	92	138	184	229	275	321	367	413	459
2	92	184	275	367	459	551	643	734	826	918
3	138	275	413	551	688	826	964	1101	1239	1377
4	184	367	551	734	918	1101	1285	1469	1652	1836
5	229	459	688	918	1147	1377	1606	1836	2065	2295
6	275	551	826	1101	1377	1652	1928	2203	2478	2754
7	321	643	964	1285	1606	1928	2249	2570	2891	3213
8	367	734	1101	1469	1836	2203	2570	2937	3304	3672
9	413	826	1239	1652	2065	2478	2891	3304	3717	4130
10	459	918	1377	1836	2295	2754	3213	3672	4130	4589
20	918	1836	2754	3672	4589	5507	6425	7343	8261	9179
30	1377	2754	4130	5507	6884	8261	9638	11015	12391	13768
50	2295	4589	6884	9179	11474	13768	16063	18358	20652	22947
75	3442	6884	10326	13768	17210	20652	24094	27536	30978	34421
100	4589	9179	13768	18358	22947	27536	32126	36715	41305	45894

1.4 Puffin

1.4.1 DBS East in Isolation: lower confidence interval

Table 73. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 74. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 75. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

1.4.2 DBS East in Isolation: upper confidence interval

Table 76. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	1	1	1	1	1	1	2	2
2	0	1	1	1	2	2	2	3	3	3
3	1	1	2	2	3	3	4	4	5	5
4	1	1	2	3	3	4	5	6	6	7
5	1	2	3	3	4	5	6	7	8	9
6	1	2	3	4	5	6	7	8	9	10
7	1	2	4	5	6	7	8	10	11	12
8	1	3	4	6	7	8	10	11	12	14
9	2	3	5	6	8	9	11	12	14	16
10	2	3	5	7	9	10	12	14	16	17
20	3	7	10	14	17	21	24	28	31	35
30	5	10	16	21	26	31	36	42	47	52
50	9	17	26	35	43	52	61	69	78	87
75	13	26	39	52	65	78	91	104	117	130
100	17	35	52	69	87	104	121	138	156	173

Table 77. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	2	2	3	3	4	4	5
2	1	2	3	4	5	6	7	8	8	9
3	1	3	4	6	7	8	10	11	13	14
4	2	4	6	8	9	11	13	15	17	19
5	2	5	7	9	12	14	16	19	21	23
6	3	6	8	11	14	17	20	23	25	28
7	3	7	10	13	16	20	23	26	30	33
8	4	8	11	15	19	23	26	30	34	38
9	4	8	13	17	21	25	30	34	38	42
10	5	9	14	19	23	28	33	38	42	47
20	9	19	28	38	47	56	66	75	84	94
30	14	28	42	56	70	84	98	113	127	141
50	23	47	70	94	117	141	164	188	211	235
75	35	70	106	141	176	211	246	281	317	352
100	47	94	141	188	235	281	328	375	422	469

Table 78. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	4	5	6	6
2	1	3	4	5	6	8	9	10	12	13
3	2	4	6	8	10	12	13	15	17	19
4	3	5	8	10	13	15	18	21	23	26
5	3	6	10	13	16	19	22	26	29	32
6	4	8	12	15	19	23	27	31	35	39
7	4	9	13	18	22	27	31	36	40	45
8	5	10	15	21	26	31	36	41	46	51
9	6	12	17	23	29	35	40	46	52	58
10	6	13	19	26	32	39	45	51	58	64
20	13	26	39	51	64	77	90	103	116	128
30	19	39	58	77	96	116	135	154	173	193
50	32	64	96	128	161	193	225	257	289	321
75	48	96	144	193	241	289	337	385	433	482
100	64	128	193	257	321	385	449	514	578	642

1.4.3 DBS West in Isolation: lower confidence interval

Table 79. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 80. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1
3	0	0	0	0	0	1	1	1	1	1
4	0	0	0	0	1	1	1	1	1	1
5	0	0	0	1	1	1	1	1	1	2
6	0	0	1	1	1	1	1	1	2	2
7	0	0	1	1	1	1	2	2	2	2
8	0	0	1	1	1	1	2	2	2	2
9	0	1	1	1	1	2	2	2	3	3
10	0	1	1	1	2	2	2	2	3	3
20	1	1	2	2	3	4	4	5	6	6
30	1	2	3	4	5	6	7	7	8	9
50	2	3	5	6	8	9	11	12	14	16
75	2	5	7	9	12	14	16	19	21	23
100	3	6	9	12	16	19	22	25	28	31

Table 81. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	1
3	0	0	0	0	0	1	1	1	1	1
4	0	0	0	0	1	1	1	1	1	1
5	0	0	0	1	1	1	1	1	1	2
6	0	0	1	1	1	1	1	1	2	2
7	0	0	1	1	1	1	2	2	2	2
8	0	0	1	1	1	1	2	2	2	2
9	0	1	1	1	1	2	2	2	3	3
10	0	1	1	1	2	2	2	2	3	3
20	1	1	2	2	3	4	4	5	6	6
30	1	2	3	4	5	6	7	7	8	9
50	2	3	5	6	8	9	11	12	14	16
75	2	5	7	9	12	14	16	19	21	23
100	3	6	9	12	16	19	22	25	28	31

1.4.4 DBS West in Isolation: upper confidence interval

Table 82. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	1	1	2	2	2	2	3
2	1	1	2	2	3	3	4	4	5	5
3	1	2	2	3	4	5	5	6	7	8
4	1	2	3	4	5	6	7	8	9	10
5	1	3	4	5	6	8	9	10	12	13
6	2	3	5	6	8	9	11	12	14	15
7	2	4	5	7	9	11	13	14	16	18
8	2	4	6	8	10	12	14	17	19	21
9	2	5	7	9	12	14	16	19	21	23
10	3	5	8	10	13	15	18	21	23	26
20	5	10	15	21	26	31	36	41	46	52
30	8	15	23	31	39	46	54	62	70	77
50	13	26	39	52	65	77	90	103	116	129
75	19	39	58	77	97	116	135	155	174	194
100	26	52	77	103	129	155	181	206	232	258

Table 83. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	2	2	2	3	3	4	4
2	1	2	2	3	4	5	6	6	7	8
3	1	2	4	5	6	7	8	10	11	12
4	2	3	5	6	8	10	11	13	14	16
5	2	4	6	8	10	12	14	16	18	20
6	2	5	7	10	12	14	17	19	21	24
7	3	6	8	11	14	17	19	22	25	28
8	3	6	10	13	16	19	22	25	29	32
9	4	7	11	14	18	21	25	29	32	36
10	4	8	12	16	20	24	28	32	36	40
20	8	16	24	32	40	48	55	63	71	79
30	12	24	36	48	59	71	83	95	107	119
50	20	40	59	79	99	119	139	158	178	198
75	30	59	89	119	149	178	208	238	267	297
100	40	79	119	158	198	238	277	317	356	396

Table 84. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS West Array Area (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	1	2	3	3	4	5	5	6	7
2	1	3	4	5	7	8	9	10	12	13
3	2	4	6	8	10	12	14	16	18	20
4	3	5	8	10	13	16	18	21	24	26
5	3	7	10	13	16	20	23	26	29	33
6	4	8	12	16	20	24	27	31	35	39
7	5	9	14	18	23	27	32	37	41	46
8	5	10	16	21	26	31	37	42	47	52
9	6	12	18	24	29	35	41	47	53	59
10	7	13	20	26	33	39	46	52	59	65
20	13	26	39	52	65	78	92	105	118	131
30	20	39	59	78	98	118	137	157	177	196
50	33	65	98	131	164	196	229	262	294	327
75	49	98	147	196	245	294	343	392	441	491
100	65	131	196	262	327	392	458	523	589	654

1.4.5 DBS East and DBS West Together: lower confidence interval

Table 85. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0

Table 86. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	1	1	1	1	1
3	0	0	0	1	1	1	1	1	1	1
4	0	0	1	1	1	1	1	1	2	2
5	0	0	1	1	1	1	2	2	2	2
6	0	1	1	1	1	2	2	2	2	3
7	0	1	1	1	2	2	2	2	3	3
8	0	1	1	1	2	2	2	3	3	3
9	0	1	1	2	2	2	3	3	3	4
10	0	1	1	2	2	3	3	3	4	4
20	1	2	3	3	4	5	6	7	8	9
30	1	3	4	5	6	8	9	10	12	13
50	2	4	6	9	11	13	15	17	19	22
75	3	6	10	13	16	19	23	26	29	32
100	4	9	13	17	22	26	30	34	39	43

Table 87. Displacement Matrix Presenting the Lower confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	1	1	1	1	1
3	0	0	0	1	1	1	1	1	1	1
4	0	0	1	1	1	1	1	1	2	2
5	0	0	1	1	1	1	2	2	2	2
6	0	1	1	1	1	2	2	2	2	3
7	0	1	1	1	2	2	2	2	3	3
8	0	1	1	1	2	2	2	3	3	3
9	0	1	1	2	2	2	3	3	3	4
10	0	1	1	2	2	3	3	3	4	4
20	1	2	3	3	4	5	6	7	8	9
30	1	3	4	5	6	8	9	10	12	13
50	2	4	6	9	11	13	15	17	19	22
75	3	6	10	13	16	19	23	26	29	32
100	4	9	13	17	22	26	30	34	39	43

1.4.6 DBS East and DBS West Together: upper confidence interval

Table 88. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Breeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	0	1	1	1	2	2	2	3	3	3
2	1	1	2	3	3	4	5	5	6	7
3	1	2	3	4	5	6	7	8	9	10
4	1	3	4	5	7	8	10	11	12	14
5	2	3	5	7	9	10	12	14	15	17
6	2	4	6	8	10	12	14	16	18	21
7	2	5	7	10	12	14	17	19	22	24
8	3	5	8	11	14	16	19	22	25	27
9	3	6	9	12	15	18	22	25	28	31
10	3	7	10	14	17	21	24	27	31	34
20	7	14	21	27	34	41	48	55	62	68
30	10	21	31	41	51	62	72	82	92	103
50	17	34	51	68	86	103	120	137	154	171
75	26	51	77	103	128	154	180	205	231	257
100	34	68	103	137	171	205	239	274	308	342

Table 89. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Nonbreeding Season That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	2	3	4	5	5	6	7	8
2	2	3	5	6	8	9	11	12	14	16
3	2	5	7	9	12	14	16	19	21	23
4	3	6	9	12	16	19	22	25	28	31
5	4	8	12	16	19	23	27	31	35	39
6	5	9	14	19	23	28	33	37	42	47
7	5	11	16	22	27	33	38	44	49	54
8	6	12	19	25	31	37	44	50	56	62
9	7	14	21	28	35	42	49	56	63	70
10	8	16	23	31	39	47	54	62	70	78
20	16	31	47	62	78	93	109	124	140	155
30	23	47	70	93	117	140	163	186	210	233
50	39	78	117	155	194	233	272	311	350	389
75	58	117	175	233	291	350	408	466	524	583
100	78	155	233	311	389	466	544	622	699	777

Table 90. Displacement Matrix Presenting the Upper confidence Interval of Puffin in the DBS East and West Array Areas (and 2km Buffer) During the Breeding and Nonbreeding Seasons That May Be Subject to Mortality (Highlighted).

Mortality (%)	Displacement (%)									
	10	20	30	40	50	60	70	80	90	100
1	1	2	3	4	6	7	8	9	10	11
2	2	4	7	9	11	13	16	18	20	22
3	3	7	10	13	17	20	23	27	30	34
4	4	9	13	18	22	27	31	36	40	45
5	6	11	17	22	28	34	39	45	50	56
6	7	13	20	27	34	40	47	54	60	67
7	8	16	23	31	39	47	55	63	70	78
8	9	18	27	36	45	54	63	72	81	90
9	10	20	30	40	50	60	70	81	91	101
10	11	22	34	45	56	67	78	90	101	112
20	22	45	67	90	112	134	157	179	201	224
30	34	67	101	134	168	201	235	269	302	336
50	56	112	168	224	280	336	392	448	504	560
75	84	168	252	336	420	504	587	671	755	839
100	112	224	336	448	560	671	783	895	1007	1119