



Code: UKCAL-CWF-CON-EIA-RPT-00008-1014

Volume 8 Additional Information

Appendix 14: Ornithology Apportioning Results (Caledonia North)

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH38EX

Volume 8 Appendix 14: Ornithology Apportioning Results (Caledonia North)

Code	UKCAL-CWF-CON-EIA-RPT-00008-1014
Revision	Issued
Date	30 September 2025

Table of Contents

1	Introduction	1
2	Results	2
2.1	Kittiwake	2
2.2	Guillemot	27
2.3	Razorbill	37
2.4	Puffin	51
2.5	Gannet	77
	References	80

List of Tables

Table 2-1: Kittiwake breeding season apportioning calculations based on the NatureScot Apportionment methodology.	3
Table 2-2: Guillemot breeding season apportioning calculations based on the NatureScot Apportionment methodology.	28
Table 2-3: Razorbill breeding season apportioning calculations based on the NatureScot Apportionment methodology.	38
Table 2-4: Puffin breeding season apportioning calculations based on the NatureScot Apportionment methodology.	52
Table 2-5: Gannet breeding season apportioning calculations based on the NatureScot Apportionment methodology.	78

Acronyms and Abbreviations

MD-LOT	Marine Directorate – Licensing Operations Team
OWF	Offshore Wind Farm
RIAA	Report to Inform Appropriate Assessment
SPA	Special Protection Area

1 Introduction

- 1.1.1.1 This appendix provides the updated information on the seasonal apportioning of seabirds (breeding season) for the full lists of colonies and non-designated sites for the Proposed Development (Offshore), specifically to inform the consent application for Caledonia North, located in the Moray Firth, Scotland. This includes designated colonies, specifically those associated with Special Protection Areas (SPAs) and non-designated colonies and forms part of the addendums submitted in response to the Marine Directorate – Licensing Operations Team (MD-LOT) request for Additional Information (dated 17 July 2025).
- 1.1.1.2 The approach by which distributional response (see Volume 7B, Appendix 6-2: Offshore Ornithology Distributional Responses Technical Report) and collision (see Volume 7B, Appendix 6-3: Offshore Ornithology Collision Risk Modelling Technical Report) mortalities are apportioned to relevant sites is detailed within Volume 8, Appendix 11: Ornithology Apportioning Technical Report (Caledonia North).

2 Results

2.1 Kittiwake

2.1.1.1 Table 2-1 provides the kittiwake breeding season apportioning calculations based on the NatureScot Apportionment methodology (NatureScot, 2018¹).

Table 2-1: Kittiwake breeding season apportioning calculations based on the NatureScot Apportionment methodology.

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Designated Sites Screened in for Assessment								
East Caithness - Cliffs SPA*		48,958	49.82	2,482.03	63.44	0.02	3.446	0.544
North Caithness SPA	Duncansby Head	1,176	51.72	2,675.27	77.94	0.01	0.062	0.010
	Dunnet Head 2	146	72.29	5,225.12	77.63	0.01	0.004	0.001
	Dunnet Head 3	6,826	73.59	5,415.78	77.36	0.01	0.181	0.029
	Holburn Head 2	74	84.99	7,222.45	75.75	0.01	0.001	<0.001
	Holburn Head 3	2	85.89	7,377.61	75.65	0.01	<0.001	<0.001
	Little Clett	10	70.75	5,005.42	77.62	0.01	<0.001	<0.001
	Melvich 1	510	103.68	10,750.37	74.12	0.01	0.007	0.001
	Melvich 2	178	104.48	10,915.86	73.92	0.01	0.002	<0.001
	Melvich 3	3,644	105.43	11,114.43	73.85	0.01	0.049	0.008
	Sandside Head 1	3,168	101.70	10,342.28	74.38	0.01	0.046	0.007
	Sandside Head 2	1,024	102.84	10,576.89	74.34	0.01	0.014	0.002
	Skirza Head	1,138	48.40	2,342.66	77.57	0.01	0.069	0.011

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
	Stacks of Duncansby	564	50.14	2,513.82	76.23	0.01	0.033	0.005
	Stroma Island	148	58.32	3,401.11	78.37	0.01	0.006	0.001
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	4,786	69.44	4,821.50	65.40	0.02	0.168	0.027
	Crovie to Collie Head	1,516	67.03	4,492.48	64.28	0.02	0.058	0.009
	More Head-Crovie Pier (+Craigandargity skerry)	224	67.50	4,555.58	63.64	0.02	0.009	0.001
	Pennan Head	1,110	68.76	4,727.80	65.10	0.02	0.040	0.006
	Troup & Lion's Head RSPB (Coast & Reserve)	19,706	67.25	4,522.70	64.65	0.02	0.747	0.118
	West Quarry Head	2	69.89	4,883.91	65.45	0.02	<0.001	<0.001
Copinsay SPA	Copinsay RSPB	670	73.04	5,334.11	81.91	0.05	0.017	0.003

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Hoy SPA	Hoy RSPB Reserve	76	88.28	7,792.48	80.09	0.01	0.001	<0.001
	HOY17	456	74.90	5,610.61	79.12	0.01	0.011	0.002
	HOY8	18	89.87	8,076.98	80.40	0.01	<0.001	<0.001
	Old Man of Hoy to Rora Head	58	87.91	7,727.46	80.11	0.01	0.001	<0.001
Buchan Ness to Collieston Coast SPA	-	27,094	111.65	12,466.39	64.67	0.02	0.372	0.059
Rousay SPA	Rousay 1 - RSPB	464	115.57	13,357.12	83.59	0.01	0.005	0.001
	Rousay 11	108	113.80	12,949.98	83.99	0.01	0.001	<0.001
	Rousay 12	60	112.52	12,659.63	84.04	0.01	0.001	<0.001
	Rousay 4	306	118.01	13,925.18	83.86	0.01	0.003	<0.001
	Rousay 7	12	116.46	13,563.86	84.11	0.01	<0.001	<0.001
	Rousay 8	12	115.79	13,408.02	84.11	0.01	<0.001	<0.001
Marwick Head SPA	-	2,878	109.70	12,033.65	82.40	0.01	0.032	0.005

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Calf of Eday SPA	Eday 1	286	111.61	12,457.24	85.16	0.01	0.003	<0.001
	Eday 20	6	110.17	12,137.43	85.16	0.01	<0.001	<0.001
	Eday 4	32	113.50	12,881.34	85.26	0.01	<0.001	<0.001
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	2,972	126.52	16,006.30	85.46	0.01	0.024	0.004
	West Westray 1	24	127.43	16,239.42	85.53	0.01	<0.001	<0.001
	West Westray 4	3,166	124.69	15,546.35	85.41	0.01	0.026	0.004
	West Westray 5	990	123.44	15,237.93	85.33	0.01	0.008	0.001
	West Westray 6	852	121.77	14,826.72	85.17	0.01	0.007	0.001
Fowlsheugh SPA	Fowlsheugh RSPB	30,966	169.30	28,662.15	53.88	0.02	0.222	0.035
	Swallow Cove - Crawton	4,312	171.04	29,255.37	53.65	0.02	0.030	0.005
	Thornyhive Bay	3,342	167.92	28,196.12	54.00	0.02	0.024	0.004
	Tremuda/Old Hall Bay	1,536	167.19	27,953.50	54.09	0.02	0.011	0.002

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Cape Wrath SPA	An Garbh-Eilean	72	161.26	26,005.11	76.55	0.01	<0.001	<0.001
	Cape Wrath 3	24	167.77	28,147.78	76.82	0.01	<0.001	<0.001
	Cape Wrath 4	586	168.28	28,317.82	76.95	0.01	0.003	<0.001
	Clo Mor 10	918	164.66	27,113.24	76.50	0.01	0.005	0.001
	Clo Mor 11	654	166.06	27,574.93	76.43	0.01	0.003	0.001
	Clo Mor 5	196	161.30	26,018.34	76.47	0.01	0.001	<0.001
	Clo Mor 7	1,360	161.87	26,202.87	76.47	0.01	0.008	0.001
	Clo Mor 8	510	162.89	26,531.52	76.43	0.01	0.003	<0.001
	Clo Mor 9	2,296	163.86	26,850.43	76.39	0.01	0.012	0.002
	Sandwood Bay - Geodha Ruadh na Fola	40	176.78	31,252.23	76.25	0.01	<0.001	<0.001
Fair Isle SPA	-	896	155.22	24,091.70	90.74	0.01	0.005	0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Sumburgh Head SPA	Geo of Parks to Jarlshof	294	196.67	38,679.48	94.27	0.01	0.001	<0.001
	Grutness Pier to Greystane Geo	141	197.20	38,885.87	94.28	0.01	<0.001	<0.001
	Sandwick to Virkie: Boddam to Virkie within SPA	2	199.93	39,970.41	94.42	0.01	<0.001	<0.001
	Sumburgh Head	254	196.19	38,489.73	94.22	0.01	0.001	<0.001
Foula SPA	-	1,193	216.73	46,973.63	94.43	0.01	0.003	<0.001
North Rona and Sula Sgeir SPA	North Rona	894	226.61	51,349.83	84.51	0.01	0.002	<0.001
	Sula Sgeir	530	244.80	59,925.08	85.23	0.01	0.001	<0.001
Forth Islands SPA	Bass Rock	1,346	269.52	72,638.34	40.24	0.02	0.005	0.001
	Craighleith	1,320	271.16	73,528.83	39.10	0.03	0.005	0.001
	Fidra	664	272.43	74,217.02	38.29	0.03	0.003	<0.001
	Isle of May	10,886	256.26	65,671.24	42.45	0.02	0.043	0.007
Noss SPA	-	154	233.79	54,659.63	95.55	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
St Abb's Head to Fast Castle SPA	Broadhaven to Moorburn Point	886	280.01	78,405.60	44.72	0.02	0.003	<0.001
	Moorburn Point to Fast Castle	264	279.59	78,172.80	44.38	0.02	0.001	<0.001
	St Abb's Head NNR	10,842	281.18	79,061.63	44.99	0.02	0.034	0.005
Handa SPA	-	9,178	201.62	40,651.03	72.68	0.01	0.034	0.005
Shiant Isles SPA	Eilean an Taighe	248	283.28	80,248.12	69.00	0.01	<0.001	<0.001
	Eilean Mhuire	1,364	281.52	79,250.70	68.95	0.01	0.003	<0.001
	Galta Beag Group	386	284.36	80,859.47	69.07	0.01	0.001	<0.001
	Galta Mor Group	134	285.06	81,259.77	69.26	0.01	<0.001	<0.001
	Garbh Eilean	186	283.03	80,105.98	69.07	0.01	<0.001	<0.001
Hermaness, Saxa Vord and Valla Field SPA	Hermaness	154	313.78	98,457.26	98.57	0.01	<0.001	<0.001
	Muckle Flugga	12	312.53	97,675.00	98.74	0.01	<0.001	<0.001
	Norwick Hevda to Hols Hellier	24	315.22	99,361.76	98.72	0.01	<0.001	<0.001
	Saxavord	188	315.26	99,390.13	98.73	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Additional Colonies and Non-designated Sites								
Berwick to Scottish Border	Berwick 3	2,120	295.11	87,090.50	45.03	0.02	0.006	0.001
	Berwick 4	934	291.29	84,852.19	45.28	0.02	0.003	<0.001
Bigton to Maywick	Griskerry to Taing of Maywick	44	211.30	44,649.38	94.95	0.01	<0.001	<0.001
Bressay	HU5139 ÔÇô SKUA/GBBG	54	230.39	53,081.40	94.81	0.01	<0.001	<0.001
	The Ord	92	227.07	51,562.60	94.61	0.01	<0.001	<0.001
Brough of Birsay	Brough of Birsay	2	112.60	12,678.53	82.84	0.01	<0.001	<0.001
Burn of Daff	Black Slough to Burn of Daff	606	153.74	23,635.68	56.56	0.02	0.005	0.001
	Burn of Daff to Newtonhill	1,580	155.67	24,233.15	56.17	0.02	0.013	0.002

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Butt of Lewis to Gress - Lewis	Buaile nan Caorach	186	247.61	61,308.73	79.56	0.01	<0.001	<0.001
	Lobaid	42	244.89	59,972.09	76.75	0.01	<0.001	<0.001
	Spainneavaig	196	242.85	58,975.64	79.26	0.01	<0.001	<0.001
	Tom Loch Bacavat	70	242.75	58,925.14	77.85	0.01	<0.001	<0.001
Caithness - Wick Bay to Freshwick Bay	Noss Head	90	38.67	1,495.52	74.38	0.01	0.009	0.001
Carr Craig, Eyebroughy and Haystack	Inchcolm	132	299.57	89,744.58	30.04	0.03	0.001	<0.001
	Inchkeith	804	290.73	84,525.10	32.45	0.03	0.003	0.001
Catterline to Inverbervie	Darn Bay	20	177.56	31,527.55	52.53	0.02	<0.001	<0.001
	Kineff	20	176.45	31,132.84	52.76	0.02	0.001	<0.001
	Little John's Haven	222	176.79	31,255.76	52.66	0.02	<0.001	<0.001
	Rouen Bay	12	174.78	30,547.70	53.02	0.02	0.002	<0.001
	Swirl Cove	348	175.23	30,704.50	52.95	0.02	0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
	The Slainges	83	174.03	30,286.79	53.15	0.02	0.013	0.002
	Whistleberry	1,934	175.72	30,876.11	52.85	0.02	0.006	0.001
	Yellow Ark	862	178.01	31,686.49	52.42	0.02	0.002	<0.001
Costa Head	-	46	118.82	14,117.72	83.44	0.01	<0.001	<0.001
Dale to Huxter	-	2	237.07	56,203.61	94.72	0.01	<0.001	<0.001
Deerness	Deerness 10	10	76.77	5,894.09	82.19	0.01	<0.001	<0.001
Droman to Geodha Ruadh na Fola	Am Balg	296	180.22	32,478.17	75.74	0.01	0.001	<0.001
	Droman - Sandwood Bay	5	185.76	34,505.29	74.80	0.01	<0.001	<0.001
	Sandwood Bay Stack	26	180.15	32,452.22	75.46	0.01	<0.001	<0.001
Eye Peninsula - Lewis	Bagh a Tuath	48	251.19	63,097.92	73.92	0.01	<0.001	<0.001
	Chicken Head	20	257.88	66,502.61	73.55	0.01	<0.001	<0.001
	Eilean Mor Bayble	30	258.55	66,846.03	73.58	0.01	<0.001	<0.001
	Rubh' a' Chaise	104	254.91	64,977.07	73.91	0.01	<0.001	<0.001
	Rubha Deas	14	255.44	65,247.04	73.85	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
	Stac Shurardail	56	255.20	65,126.02	73.93	0.01	<0.001	<0.001
	Tiumpnan Head	62	253.73	64,376.38	73.99	0.01	<0.001	<0.001
Eyemouth to Burnmouth	Eyemouth to Burnmouth 1	120	249.00	61,998.51	74.00	0.01	<0.001	<0.001
	Eyemouth to Burnmouth 2	342	259.26	67,214.71	73.62	0.01	<0.001	<0.001
	Eyemouth to Burnmouth 3	12	285.26	81,373.27	45.25	0.02	<0.001	<0.001
	Eyemouth to Burnmouth 4	124	284.99	81,218.73	45.27	0.02	<0.001	<0.001
	Eyemouth to Burnmouth 5	228	284.79	81,104.77	45.30	0.02	0.001	<0.001
	Eyemouth to Burnmouth 6	316	284.57	80,977.24	45.32	0.02	0.001	<0.001
	Eyemouth to Burnmouth 7	276	284.44	80,907.25	45.35	0.02	0.001	<0.001
Eynhallow	-	76	113.92	12,976.86	83.45	0.01	0.001	<0.001
Faraid Head/Balnakeil	Faraid Head 2	60	156.18	24,393.44	75.52	0.01	<0.001	<0.001
	Faraid Head 3	364	155.61	24,213.85	75.47	0.01	0.002	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
	Faraid Head 4	232	155.38	24,142.32	75.39	0.01	0.001	<0.001
Fethaland to North Roe	Lanyar Taing to Lotaki Kame	4	289.23	83,654.57	97.72	0.01	<0.001	<0.001
Fetlar	Fetlar RSPB	128	290.69	84,502.42	97.68	0.01	<0.001	<0.001
Fetlar SPA	Big Holm to Moo Wick	124	281.40	79,187.65	98.01	0.01	<0.001	<0.001
	Funzie Bay to Wick of Aith	12	283.48	80,362.04	97.60	0.01	<0.001	<0.001
	Klifts to Big Holm	24	282.99	80,081.64	98.01	0.01	<0.001	<0.001
	Lamb Hoga	134	284.11	80,719.06	98.05	0.01	<0.001	<0.001
	Strandburgh Ness	68	287.26	82,516.01	98.02	0.01	<0.001	<0.001
Findon Ness - Hare Ness	Findon Ness to Black Slough	160	151.79	23,041.42	57.00	0.02	0.001	<0.001
	Hare Ness to Seal's Cove	1,624	149.41	22,323.65	57.39	0.02	0.014	0.002
	Seal's Cove to Findon Ness	570	150.73	22,719.23	57.18	0.02	0.005	0.001
Firth of Forth SPA	Dunbar Coast	2,310	275.71	76,013.25	41.02	0.02	0.008	0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Fitful	Siggart Ness	132	198.07	39,233.31	94.24	0.01	<0.001	<0.001
Fraserburgh	Fraserburgh Harbour	162	72.34	5,232.93	67.90	0.01	0.005	0.001
Girdle Ness to Hare Ness	Cove Bay	2,646	146.90	21,578.73	57.87	0.02	0.023	0.004
	Cove to Hare Ness	722	148.02	21,908.74	57.65	0.02	0.006	0.001
	Greg Ness - Seals Hole	782	144.71	20,940.41	58.32	0.02	0.007	0.001
Green Holms	Muckle Green Holm	64	100.79	10,158.22	83.89	0.01	0.001	<0.001
Hall Bay to Craigeven Bay	Perthumie Bay 1	158	160.56	25,780.48	55.17	0.02	0.001	<0.001
Heylor to Stenness	Calders Geo	72	261.61	68,441.88	96.92	0.01	<0.001	<0.001
	Ockran Head and Hamnavoe	152	266.65	71,101.16	97.36	0.01	<0.001	<0.001
	Stenness	65	259.88	67,536.57	97.25	0.01	<0.001	<0.001
Holm	Gultak	22	74.27	5,516.03	81.50	0.01	0.001	<0.001
Hopeman Bay	Covesea	1,398	78.87	6,219.69	50.96	0.02	0.049	0.008

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Horse Island, Colsay, Little and Ladies Holm to Fitful Head	Horse Island (HU30)	24	194.67	37,896.02	94.10	0.01	<0.001	<0.001
Horse of Copinsay	Horse of Copinsay	314	74.16	5,500.30	82.04	0.01	0.008	0.001
Howick - Cullornose Point - Dunstanburgh Castle Point	Cullernose Point	184	328.49	107,905.68	47.31	0.02	<0.001	<0.001
	Dunstanburgh Castle	628	325.22	105,766.75	47.53	0.02	0.001	<0.001
	Howick	1,280	329.09	108,300.23	47.26	0.02	0.003	<0.001
Hoy and Southwalls	HOY22	66	69.19	4,787.81	79.65	0.01	0.002	<0.001
Huxter to Brindister	Brough Skerries to Corn Head	1	245.37	60,207.42	94.43	0.01	<0.001	<0.001
	Neap of Norby to The Kamer	19	242.88	58,991.67	96.67	0.01	<0.001	<0.001
	Staraster to Shaabers Head	42	249.46	62,228.30	95.77	0.01	<0.001	<0.001
	The Kamer to Bay of Garth	8	244.07	59,567.72	94.56	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Lunan Bay to Arbroath	Auchmithie	7	211.13	44,576.30	46.19	0.02	<0.001	<0.001
	Whiting Ness to Ethie Haven 1	204	215.25	46,332.99	45.48	0.02	0.001	<0.001
	Whiting Ness to Ethie Haven 4	933	212.53	45,169.85	45.97	0.02	0.005	0.001
Maryick to Scalloway	South Havra	10	214.71	46,098.67	95.22	0.01	<0.001	<0.001
Maywick to St. Ninians Isle	Ness of Ireland	84	210.15	44,160.92	95.00	0.01	<0.001	<0.001
Montrose to Lunan Bay	Buckiemill	740	203.88	41,568.28	47.10	0.02	0.004	0.001
Newton Hill	Doonie Point to Hall Bay	4	159.57	25,461.95	55.38	0.02	<0.001	<0.001
Newtonhill - Hall Bay	May Craig - Muchalls	468	157.47	24,797.75	55.84	0.02	0.004	0.001
	Newtonhill - May Craig	596	156.81	24,588.12	55.99	0.02	0.005	0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
No Ness to Levenwick and Boddam to Virkie	Noness	76	211.21	44,608.40	95.17	0.01	<0.001	<0.001
	Troswick Beach to Boddam	42	204.42	41,787.95	94.52	0.01	<0.001	<0.001
	Troswick Ness	40	205.87	42,382.05	94.63	0.01	<0.001	<0.001
North Mainland 22 - Black Hill to Boat Geo South	HU 3066 - SKUA/GBBG	4	255.01	65,031.12	94.28	0.01	<0.001	<0.001
North Sutherland Islands	Eilean Iosal	141	256.34	65,709.17	94.40	0.01	<0.001	<0.001
	Eilean Nan Ron 6	300	132.92	17,668.52	74.11	0.01	0.001	<0.001
North Sutor to Shandwick	North Sutor Of Cromarty/Castlecraig	904	106.27	11,294.16	40.17	0.02	0.022	0.003
Old Hill - Lewis	Old Hill Whole Island	186	291.94	85,228.96	78.98	0.01	<0.001	<0.001
	Old Hill/South East Side	32	292.04	85,287.36	78.97	0.01	<0.001	<0.001
	Old Hill/West Side	1,326	291.37	84,893.56	78.89	0.01	0.002	<0.001
Out Skerries	North Benelip	48	263.66	69,516.60	97.09	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Papa Stour SPA	Papa Stour Whole Island	50	242.71	58,905.72	96.57	0.01	<0.001	<0.001
Pentland Firth Islands SPA	Muckle Skerry	352	53.14	2,824.28	78.89	0.01	0.018	0.003
	Swona	1	61.92	3,833.96	79.19	0.01	<0.001	<0.001
Peterhead	Peterhead South Harbour (urban)	66	99.69	9,938.49	67.29	0.01	0.001	<0.001
Portknockie	Portknockie	62	66.47	4,418.13	58.15	0.02	0.003	<0.001
Portsoy to Cullen	Findlater	158	65.55	4,296.54	59.00	0.02	0.007	0.001
	Garron Point	434	66.02	4,358.24	59.13	0.02	0.019	0.003
	Redhythe Point	440	66.29	4,393.97	59.35	0.02	0.019	0.003
Ramna Stacks and Gruney SPA	Fladda	156	250.85	62,927.73	66.05	0.02	<0.001	<0.001
	Outer Stack	4	286.96	82,346.62	98.15	0.01	<0.001	<0.001
Ronas Hill - North Roe and Tingon – Cliff nesters only	Galti Stack	102	229.47	52,655.56	96.19	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Rosehearty to Bay of Cullen	Head of Garness	6	66.92	4,478.29	62.67	0.02	<0.001	<0.001
	Snow Craig	50	67.43	4,547.34	63.11	0.02	0.002	<0.001
Rousay - South East	Trumland RSPB	254	110.68	12,249.40	83.39	0.01	0.003	<0.001
Rubha Hunish	An t-Iasgair Group	160	304.57	92,763.49	68.05	0.01	<0.001	<0.001
	Creag na h-Eiginn - The Aird	418	298.78	89,269.49	66.93	0.01	0.001	<0.001
	Fladda Chuain to Gearran Island	928	300.00	89,997.00	68.47	0.01	0.002	<0.001
	Flodigarry - Creag na h-Eiginn	400	300.19	90,115.84	66.36	0.02	0.001	<0.001
	South Lub Score	98	305.81	93,516.70	67.58	0.01	<0.001	<0.001
	The Aird - Rubha Hunish	16	299.04	89,426.12	67.33	0.01	<0.001	<0.001
Sanday - Stove to Kettletoft	Starrie Geo	102	106.96	11,440.66	84.90	0.01	0.001	<0.001
Sandvoe to Uyea	Sandvoe 3	8	283.46	80,347.30	97.56	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Scapa Bay to St. Marys	Holm 4	46	81.76	6,684.53	81.39	0.01	0.001	<0.001
SE Lewis	Rubha na Creige Moire	22	270.96	73,420.41	71.17	0.01	<0.001	<0.001
Shapinsay (Coastal)	Shapinsay 1	412	314.09	98,651.27	47.77	0.02	0.001	<0.001
	Shapinsay 8	26	90.45	8,181.02	82.71	0.01	<0.001	<0.001
	Shapinsay 9	8	90.26	8,147.23	82.83	0.01	<0.001	<0.001
Skeld, Westerwick and Culswick	Burga Stacks to Caves	2	228.12	52,039.65	95.41	0.01	<0.001	<0.001
	Scarvister to West Mouli Geo	26	226.63	51,358.89	93.97	0.01	<0.001	<0.001
	Skeld, Westerwick and Culswick	30	234.56	55,018.86	95.37	0.01	<0.001	<0.001
	West Of The Nev - Stead Of Culswick	54	227.62	51,812.23	95.13	0.01	<0.001	<0.001
	Westerwick to West of The Nev	100	226.78	51,430.08	94.99	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Skye	Biod a' Choltraiche to Creag an Fhithich	138	318.16	101,227.06	68.40	0.01	<0.001	<0.001
	Rubha Riadhain	78	317.51	100,814.51	65.95	0.02	<0.001	<0.001
	Vaternish Point to Waterfall	190	320.12	102,475.53	68.87	0.01	<0.001	<0.001
Smoo to Melvich	Cleit An t-Seabhaig	50	143.84	20,688.79	74.94	0.01	<0.001	<0.001
	Rubha Thormaid	50	140.88	19,846.33	74.83	0.01	<0.001	<0.001
South Ronaldsay	Quindry - Hoxa - Dam of Hoxa	2	70.28	4,938.72	79.68	0.01	<0.001	<0.001
	The Altar - Quindry	68	70.04	4,905.60	80.04	0.01	0.002	<0.001
	Windwick - Burwick	32	63.34	4,011.83	79.54	0.01	0.001	<0.001
South Sutor	South Sutor 3	132	108.54	11,780.06	39.64	0.03	0.003	<0.001
St. Ninian's Isle	Hich Holm	56	207.47	43,042.14	94.76	0.01	<0.001	<0.001
	St. Ninian's Isle	78	207.68	43,130.57	94.79	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Stoer Headland	Point of Stoer - Cluas Deas	514	226.65	51,372.04	63.80	0.02	0.002	<0.001
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	534	165.99	27,553.34	54.23	0.02	0.004	0.001
	Strathlethan Bay	61	165.22	27,296.33	54.28	0.02	0.001	<0.001
Stronsay	Burgh Head 1	21	93.29	8,703.02	84.17	0.01	<0.001	<0.001
	Carlin Geo 1	188	92.93	8,635.06	84.00	0.01	0.003	<0.001
	Rothiesholm Head 2	98	95.36	9,093.53	84.10	0.01	0.001	<0.001
Sule Skerry and Sule Stack SPA	Sule Skerry	332	146.50	21,461.08	82.17	0.01	0.002	<0.001
	Sule Stack	102	147.60	21,784.28	81.54	0.01	0.001	<0.001
Sumburgh Head Quarries	Compass Head	70	197.67	39,074.22	94.27	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Sumburgh to Peerie Voe of Spiggie	Broad Stack to Stack of Barons Geo	113	198.17	39,272.93	94.25	0.01	<0.001	<0.001
	Corbie Geo to Whale Stack	2	203.84	41,549.11	94.51	0.01	<0.001	<0.001
	Landvillas to Scarfi Taing	282	202.63	41,059.32	94.44	0.01	0.001	<0.001
	The Nev to The Kame	28	201.15	40,462.13	94.37	0.01	<0.001	<0.001
The Taing - The Nev	Hinda Stack - The Nev	56	306.58	93,993.75	98.66	0.01	<0.001	<0.001
	The Taing - Hinda Stack	100	309.17	95,588.56	98.65	0.01	<0.001	<0.001
Toe Head - Harris	Toe Head 3	150	339.38	115,176.07	75.49	0.01	<0.001	<0.001
	Toe Head 4	224	339.98	115,588.44	75.47	0.01	<0.001	<0.001
Uyea	Uyea	24	279.81	78,295.31	97.58	0.01	<0.001	<0.001
Vaila	-	44	231.27	53,483.50	93.41	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Walls to Dales	Dogs Head to Treawick	16	232.55	54,081.36	94.33	0.01	<0.001	<0.001
	Point of Hus to Hevdigarth	20	231.03	53,372.55	93.84	0.01	<0.001	<0.001
	Treawick to Burrier Head	3	232.77	54,182.34	94.44	0.01	<0.001	<0.001
West Burra - Shetland	Kettlaness (KI & SA only)	72	216.74	46,974.06	93.37	0.01	<0.001	<0.001
	West Burra	130	219.20	48,049.08	93.27	0.01	<0.001	<0.001
	Whale Wick to Sandwick (incl. Ramna Geo)	58	219.57	48,209.23	93.18	0.01	<0.001	<0.001
Westray	Westray 10	758	116.57	13,589.50	84.85	0.01	0.007	0.001
Whalsay	Meo Ness to the Haa	64	252.01	63,508.03	97.53	0.01	<0.001	<0.001
Yell - East Coast	SE Yell (inc. Burravoe)	154	275.52	75,911.27	97.97	0.01	<0.001	<0.001
Yesnaby - Ness Point, Stromness	Grid Square HY2112	12	95.96	9,207.55	81.52	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Total Weighting	Total Proportion
Row Head		2	102.90	10,587.38	82.19	0.01	<0.001	<0.001
Ythan Estuary, Sands of Forvie and Meikle Loch SPA	Sands of Forvie	946	120.37	14,489.90	62.41	0.02	0.012	0.002
* Colony counts from Burnell <i>et al.</i> (2023 ²).								

2.2 Guillemot

- 2.2.1.1 Table 2-2 provides the guillemot breeding season apportioning calculations based on the NatureScot Apportionment methodology (NatureScot, 2018¹).

Table 2-2: Guillemot breeding season apportioning calculations based on the NatureScot Apportionment methodology.

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Designated Sites Screened in for Assessment								
East Caithness Cliffs SPA**	-	199,966	49.63	2,463.14	50.10	0.02	2.231	0.729
North Caithness Cliffs SPA	Auckengill within SPA	47	47.36	2,242.78	76.76	0.01	<0.001	<0.001
	Duncansby Head	15,146	51.72	2,675.27	79.61	0.01	0.098	0.032
	Dunnet Head 1	3,453	71.69	5,139.46	69.66	0.01	0.013	0.004
	Dunnet Head 2	1,300	72.29	5,225.12	69.84	0.01	0.005	0.002
	Dunnet Head 3	14,709	73.59	5,415.78	69.40	0.01	0.054	0.018
	Dunnet Head 4	55	76.55	5,860.51	66.93	0.01	<0.001	<0.001
	Holburn Head 2	87	84.99	7,222.45	60.03	0.02	<0.001	<0.001
	Holburn Head 3	36	85.89	7,377.61	59.75	0.02	<0.001	<0.001
	Melvich 1	1,017	103.68	10,750.37	50.62	0.02	0.003	0.001
	Melvich 2	456	104.48	10,915.86	50.34	0.02	0.001	<0.001
	Melvich 3	1,320	105.43	11,114.43	50.34	0.02	0.003	0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Sandside Head 1	986	101.70	10,342.28	51.72	0.02	0.003	0.001
	Sandside Head 2	1,202	102.84	10,576.89	51.52	0.02	0.003	0.001
	Skirza Head	8,804	48.40	2,342.66	78.02	0.01	0.066	0.022
	Stacks of Duncansby	1,273	50.14	2,513.82	79.39	0.01	0.009	0.003
	Stroma Island	12,211	58.32	3,401.11	77.84	0.01	0.063	0.021
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	2,931	69.44	4,821.50	65.86	0.02	0.013	0.004
	Crovie to Collie Head	1,524	67.03	4,492.48	62.86	0.02	0.007	0.002
	More Head-Crovie Pier (+Craigandargity skerry)	235	67.50	4,555.58	61.55	0.02	0.001	<0.001
	Pennan Head	1,942	68.76	4,727.80	64.96	0.02	0.009	0.003
	Troup & Lion's Head RSPB (Coast & Reserve)	41,088	67.25	4,522.70	64.18	0.02	0.195	0.064

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Copinsay SPA	Black Holm	35	74.08	5,487.40	86.10	0.01	<0.001	<0.001
	Copinsay	1,268	73.04	5,334.11	86.08	0.01	0.004	0.001
	Ward Holm	9	73.45	5,395.49	85.95	0.01	<0.001	<0.001
Hoy SPA	Hoy RSPB Reserve	3,956	88.28	7,792.48	81.43	0.01	0.009	0.003
	HOY13	4	82.22	6,760.79	79.00	0.01	<0.001	<0.001
	HOY14	121	80.59	6,495.07	78.97	0.01	<0.001	<0.001
	HOY16	402	77.15	5,952.74	79.01	0.01	0.001	<0.001
	HOY17	7,907	74.90	5,610.61	78.73	0.01	0.025	0.008
	HOY5	283	92.14	8,488.86	82.39	0.01	0.001	<0.001
	HOY6	1,828	92.48	8,553.11	82.40	0.01	0.004	0.001
	HOY7	391	92.78	8,608.13	82.06	0.01	0.001	<0.001
	HOY8	1,340	89.87	8,076.98	81.33	0.01	0.003	0.001
	Old Man of Hoy to Rora Head	114	87.91	7,727.46	80.53	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Buchan Ness to Collieston Coast SPA	-	40,763	111.65	12,466.39	66.74	0.01	0.067	0.022
Rousay SPA	Rousay 1 - RSPB	367	115.57	13,357.12	86.94	0.01	<0.001	<0.001
	Rousay 11	670	113.80	12,949.98	88.49	0.01	0.001	<0.001
	Rousay 12	38	112.52	12,659.63	88.53	0.01	<0.001	<0.001
	Rousay 2	31	115.83	13,417.05	87.31	0.01	<0.001	<0.001
	Rousay 4	3,752	118.01	13,925.18	87.49	0.01	0.004	0.001
	Rousay 5	2,566	118.77	14,106.79	87.83	0.01	0.003	0.001
	Rousay 6	477	117.49	13,803.43	88.03	0.01	0.001	<0.001
	Rousay 7	7	116.46	13,563.86	88.18	0.01	<0.001	<0.001
	Rousay 8	13	115.79	13,408.02	88.13	0.01	<0.001	<0.001
Marwick Head SPA	-	12,800	109.70	12,033.65	85.54	0.01	0.017	0.006

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Calf of Eday SPA	Calf of Eday	7,375	112.32	12,615.11	90.49	0.01	0.009	0.003
	Eday 20	7	110.22	12,147.79	90.31	0.01	<0.001	<0.001
	Eday 5	11	114.46	13,101.55	90.52	0.01	<0.001	<0.001
	Eday 6	9	114.59	13,130.87	90.44	0.01	<0.001	<0.001
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	32,945	126.52	16,006.30	89.33	0.01	0.032	0.010
	West Westray 1	102	127.43	16,239.42	89.48	0.01	<0.001	<0.001
	West Westray 4	2,346	124.69	15,546.35	89.81	0.01	0.002	0.001
	West Westray 5	3,223	123.44	15,237.93	89.71	0.01	0.003	0.001
	West Westray 6	4,403	121.77	14,826.72	89.35	0.01	0.005	0.001
	Westray 13 within SPA	16	129.73	16,828.58	89.70	0.01	<0.001	<0.001
Fair Isle SPA	-	24,515	155.22	24,091.70	95.11	0.01	0.015	0.005
Sule Skerry and Sule Stack SPA	Sule Skerry	12,861	144.45	20,865.80	83.4	0.01	0.010	0.003
	Sule Stack	1,423	147.05	21,623.70	81.5	0.01	0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Additional Colonies and Non-designated Sites								
Auskerry SPA	-	122	87.21	7,605.93	89.43	0.01	<0.001	<0.001
Birsay Cliffs - Point of Buckquoy to Loop of Cruie	Whitaloo Point to Loop of Cruie	32	115.09	13,244.79	86.41	0.01	<0.001	<0.001
Brough of Birsay	-	359	112.60	12,678.53	86.64	0.01	<0.001	<0.001
Caithness - Wick Bay to Freshwick Bay	Noss Head	143	38.67	1,495.52	72.66	0.01	0.002	0.001
	Staxigoe	24	37.35	1,395.32	71.84	0.01	<0.001	<0.001
Costa Head	Costa Head	6,792	118.82	14,117.72	86.70	0.01	0.008	0.002
	Costa Hill Cliffs	9	118.28	13,989.92	86.93	0.01	<0.001	<0.001
Deerness	Deerness 10	127	76.77	5,894.09	86.59	0.01	<0.001	<0.001
	Deerness 3	232	82.91	6,874.23	87.21	0.01	0.001	<0.001
	Deerness 5	212	81.53	6,646.81	87.40	0.01	0.001	<0.001
	Mull Head - cliff-nesters	1,841	82.05	6,731.55	87.48	0.01	0.004	0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
East Caithness Cliffs SPA (South)	Badaidh na Gaoithe	178	53.57	2,869.32	44.99	0.02	0.002	0.001
Flotta & Calf of Flotta	Flotta 5	3	69.95	4,893.14	80.55	0.01	<0.001	<0.001
	Flotta 6	83	69.81	4,872.88	80.20	0.01	<0.001	<0.001
Holm	Gultak	292	74.27	5,516.03	84.88	0.01	0.001	<0.001
	Holm 2	9	75.08	5,636.41	85.04	0.01	<0.001	<0.001
	Holm 6	80	73.59	5,415.19	84.64	0.01	<0.001	<0.001
Horse of Copinsay	-	1,034	74.16	5,500.30	86.56	0.01	0.003	0.001
Hoy and Southwalls	HOY21	306	70.78	5,010.37	78.46	0.01	0.001	<0.001
	HOY22	1,364	69.19	4,787.81	79.06	0.01	0.005	0.002
Papa Westray (North Hill and Holm) SPA	North Hill RSPB, Papa Westray	162	130.41	17,005.46	90.76	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Pentland Firth Islands SPA	Muckle Skerry	587	53.14	2,824.28	81.84	0.01	0.003	0.001
	Swona	8	61.92	3,833.96	78.72	0.01	<0.001	<0.001
Portknockie	-	66	66.47	4,418.13	44.92	0.02	<0.001	<0.001
Shapinsay (Coastal)	Shapinsay 10	8	91.26	8,328.75	87.44	0.01	<0.001	<0.001
	Shapinsay 8	12	90.45	8,181.02	87.48	0.01	<0.001	<0.001
	Shapinsay 9	109	90.26	8,147.23	87.79	0.01	<0.001	<0.001
South Ronaldsay	Burwick - Sandwich	13	63.47	4,028.31	79.35	0.01	<0.001	<0.001
	The Altar - Quindry	868	77.71	6,039.00	72.03	0.01	0.003	0.001
	Windwick - Burwick	3,966	63.34	4,011.83	79.79	0.01	0.017	0.006
Stromness Area, Hundland	-	4	101.76	10,354.08	83.66	0.01	<0.001	<0.001
Stronsay	Carlin Geo 1	993	92.93	8,635.06	90.07	0.01	0.002	0.001
	Rothiesholm Head 2	13	95.36	9,093.53	89.43	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Switha	Switha (Whole Island)	110	68.62	4,708.98	79.67	0.01	<0.001	<0.001
Westray	Westray 10	592	116.57	13,589.50	89.46	0.01	0.001	<0.001
Yesnaby - Ness Point, Stromness	Grid Square HY2113	44	97.13	9,433.65	83.72	0.01	<0.001	<0.001
	Grid Square HY2114	4	97.98	9,599.10	83.83	0.01	<0.001	<0.001
Yesnaby to Marwick (West Mainland)	Row Head	5,925	102.90	10,587.38	84.11	0.01	0.009	0.003
* Applying Harris <i>et al.</i> (2015 ³) correction factor x 1.34 for total adult breeding numbers. ** Counts from Seabird Count 2015 - 2021 (Burnell <i>et al.</i> , 2023 ²).								

2.3 **Razorbill**

2.3.1.1 Table 2-3 provides the razorbill breeding season apportioning calculations based on the NatureScot Apportionment methodology (NatureScot, 2018¹).

Table 2-3: Razorbill breeding season apportioning calculations based on the NatureScot Apportionment methodology.

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Designated Sites Screened in for Assessment								
East Caithness - Cliffs SPA**	-	40,373	49.48	2,448.27	48.11	0.02	2.519	0.748
Fair Isle SPA	-	2,580	155.22	24,091.70	95.23	0.01	0.008	0.002
North Caithness Cliffs SPA	Auckengill within SPA	137	47.36	2,242.78	75.06	0.01	0.006	0.002
	Duncansby Head	1,979	51.72	2,675.27	79.01	0.01	0.069	0.020
	Dunnet Head 1	194	71.69	5,139.46	74.50	0.01	0.004	0.001
	Dunnet Head 2	406	72.29	5,225.12	74.62	0.01	0.008	0.002
	Dunnet Head 3	1,912	73.59	5,415.78	74.43	0.01	0.035	0.010
	Dunnet Head 4	96	76.55	5,860.51	72.48	0.01	0.002	<0.001
	Dunnet Head 5	153	80.37	6,459.18	71.03	0.01	0.002	0.001
	Holburn Head 2	43	84.99	7,222.45	67.03	0.01	0.001	<0.001
	Holburn Head 3	62	85.89	7,377.61	66.86	0.01	0.001	<0.001
	Little Clett	42	70.75	5,005.42	74.32	0.01	0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Melvich 1	1,112	103.68	10,750.37	59.25	0.02	0.013	0.004
	Melvich 2	529	104.48	10,915.86	58.99	0.02	0.006	0.002
	Melvich 3	496	105.43	11,114.43	59.01	0.02	0.006	0.002
	Ness of Litter	32	90.85	8,252.81	65.92	0.02	<0.001	<0.001
	Sandside Head 1	382	101.70	10,342.28	60.16	0.02	0.005	0.001
	Sandside Head 2	465	102.84	10,576.89	60.22	0.02	0.005	0.002
	Skirza Head	1,432	48.40	2,342.66	76.65	0.01	0.059	0.017
	Stacks of Duncansby	930	50.14	2,513.82	78.27	0.01	0.035	0.010
	Stroma Island	1,927	58.32	3,401.11	79.01	0.01	0.053	0.016
Troup, Pennan and Lion's Heads SPA	Aberdour Bay - Razorbill	508	69.44	4,821.50	63.72	0.02	0.012	0.004
	Crovie to Collie Head - Razorbill	1,124	67.03	4,492.48	60.19	0.02	0.031	0.009
	More Head-Crovie Pier (+Craigandargity skerry) - Razorbill	125	67.50	4,555.58	58.96	0.02	0.003	0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Pennan Head - Razorbill	592	68.76	4,727.80	62.64	0.02	0.015	0.004
	Troup & Lion's Head RSPB (Coast & Reserve) - Razorbill	6,448	67.25	4,522.70	61.52	0.02	0.170	0.051
	West Quarry Head - Razorbill	4	69.89	4,883.91	64.68	0.02	<0.001	<0.001
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	1,280	126.52	16,006.30	89.01	0.01	0.007	0.002
	West Westray 1	91	127.43	16,239.42	89.14	0.01	<0.001	<0.001
	West Westray 4	213	124.69	15,546.35	89.48	0.01	0.001	<0.001
	West Westray 5	781	123.44	15,237.93	89.42	0.01	0.004	0.001
	West Westray 6	705	121.77	14,826.72	89.12	0.01	0.004	0.001
	Westray 13 within SPA	34	129.73	16,828.58	89.34	0.01	<0.001	<0.001
Additional Colonies and Non-designated Sites								
Auskerry SPA	-	60	87.21	7,605.93	87.96	0.01	0.001	<0.001
Birsay Cliffs - Point of	Skipi Geo to Whitaloo Point	3	114.16	13,032.96	86.58	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Buckquoy to Loop of Cruie	Whitaloo Point to Loop of Cruie	76	115.09	13,244.79	86.60	0.01	<0.001	<0.001
Brough of Birsay	-	27	112.60	12,678.53	86.77	0.01	<0.001	<0.001
Buchan Ness to Collieston Coast SPA	-	7,654	111.65	12,466.39	69.84	0.01	0.065	0.019
Caithness - Wick Bay to Freshwick Bay	Ackergillshore	11	40.96	1,677.48	68.52	0.01	0.001	<0.001
	Noss Head	358	38.67	1,495.52	69.45	0.01	0.025	0.008
Calf of Eday SPA	Calf of Eday	94	112.32	12,615.11	90.07	0.01	0.001	<0.001
	Eday 20	23	110.22	12,147.79	89.93	0.01	<0.001	<0.001
	Eday 4	5	113.50	12,881.34	90.21	0.01	<0.001	<0.001
	Eday 5	17	114.46	13,101.55	90.12	0.01	<0.001	<0.001
	Eday 6	11	114.59	13,130.87	90.03	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Copinsay SPA	Black Holm	79	74.08	5,487.40	84.74	0.01	0.001	<0.001
	Copinsay	389	73.04	5,334.11	84.76	0.01	0.006	0.002
	Corn Holm	29	73.84	5,451.75	84.70	0.01	<0.001	<0.001
	Ward Holm	125	73.45	5,395.49	84.63	0.01	0.002	0.001
Costa Head	Costa Head	762	118.82	14,117.72	86.82	0.01	0.005	0.001
	Costa Hill Cliffs	119	118.28	13,989.92	87.02	0.01	0.001	<0.001
Deerness	Deerness 10	114	76.77	5,894.09	85.17	0.01	0.002	<0.001
	Deerness 2	78	85.45	7,302.39	85.17	0.01	0.001	<0.001
	Deerness 3	155	82.91	6,874.23	84.85	0.01	0.002	0.001
	Deerness 5	134	81.53	6,646.81	85.60	0.01	0.002	0.001
	Deerness 6	64	80.50	6,480.89	85.77	0.01	0.001	<0.001
	Mull Head - cliff-nesters	84	82.05	6,731.55	85.43	0.01	0.001	<0.001
East Caithness Cliffs SPA (South)	Badaidh na Gaoithe	113	53.57	2,869.32	43.18	0.02	0.007	0.002

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Findon Ness - Hare Ness	Findon Ness to Black Slough	60	151.79	23,041.42	58.45	0.02	<0.001	<0.001
	Hare Ness to Seal's Cove	340	149.41	22,323.65	58.96	0.02	0.002	0.001
	Seal's Cove to Findon Ness	844	150.73	22,719.23	58.76	0.02	0.005	0.001
Flotta & Calf of Flotta	Flotta 5	36	69.95	4,893.14	79.76	0.01	0.001	<0.001
	Flotta 6	322	69.81	4,872.88	79.46	0.01	0.006	0.002
Girdle Ness to Hare Ness	Cove Bay	194	146.90	21,578.73	59.57	0.02	0.001	<0.001
	Cove to Hare Ness	202	148.02	21,908.74	59.28	0.02	0.001	<0.001
	Greg Ness - Seals Hole	1	144.71	20,940.41	60.17	0.02	<0.001	<0.001
Holm	Gultak	512	74.27	5,516.03	83.71	0.01	0.008	0.002
	Holm 2	127	75.08	5,636.41	83.90	0.01	0.002	0.001
	Holm 6	25	73.59	5,415.19	83.49	0.01	<0.001	<0.001
Holm, Deerness and Tankerness	Rerwick Head 1	1	87.43	7,643.13	84.85	0.01	<0.001	<0.001
	Rerwick Head 2	52	87.01	7,571.26	84.91	0.01	0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Horse of Copinsay	-	310	74.16	5,500.30	85.06	0.01	0.005	0.001
Hoy and Southwalls	HOY22	244	69.19	4,787.81	78.46	0.01	0.005	0.001
Hoy SPA	Hoy RSPB Reserve	1,091	88.28	7,792.48	81.02	0.01	0.013	0.004
	HOY10	54	86.20	7,430.78	79.66	0.01	0.001	<0.001
	HOY11	34	84.79	7,188.50	79.21	0.01	<0.001	<0.001
	HOY12	13	83.47	6,967.57	78.77	0.01	<0.001	<0.001
	HOY13	54	82.22	6,760.79	78.70	0.01	0.001	<0.001
	HOY14	34	80.59	6,495.07	78.62	0.01	<0.001	<0.001
	HOY15	27	78.92	6,228.37	78.25	0.01	<0.001	<0.001
	HOY16	122	77.15	5,952.74	78.57	0.01	0.002	0.001
	HOY17	481	74.90	5,610.61	78.32	0.01	0.008	0.002
	HOY19	19	72.10	5,198.55	77.93	0.01	<0.001	<0.001
	HOY5	75	92.14	8,488.86	77.94	0.01	0.001	<0.001
	HOY6	253	92.48	8,553.11	81.94	0.01	0.003	0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	HOY7	320	92.78	8,608.13	81.96	0.01	0.003	0.001
	HOY8	263	89.87	8,076.98	81.64	0.01	0.003	0.001
	Old Man of Hoy to Rora Head	86	87.91	7,727.46	80.96	0.01	0.001	<0.001
Marwick Head SPA	Birsay Bay	8	110.81	12,277.97	86.28	0.01	<0.001	<0.001
	Marwick Head	988	109.70	12,033.65	85.74	0.01	0.007	0.002
Melvich to Duncansby Stacks SSSI	St Johns Point	62	61.61	3,795.67	76.84	0.01	0.002	<0.001
North Sutherland Islands	Eilean Iosal	38	132.92	17,668.52	57.57	0.02	<0.001	<0.001
	Eilean Nan Ron 6	96	133.11	17,718.80	56.87	0.02	0.001	<0.001
	Eilean nan Ron whole island	11	132.34	17,512.55	56.67	0.02	<0.001	<0.001
	Neave Island 1	7	129.86	16,863.10	56.27	0.02	<0.001	<0.001
North Sutor to Shandwick	North Sutor Of Cromarty/Castlecraig	161	106.27	11,294.16	18.59	0.05	0.006	0.002

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Papa Westray (North Hill and Holm) SPA	North Hill RSPB, Papa Westray	76	130.41	17,005.46	90.28	0.01	<0.001	<0.001
Pentland Firth Islands SPA	Muckle Skerry	239	53.14	2,824.28	81.97	0.01	0.008	0.002
	Swona	273	61.92	3,833.96	78.13	0.01	0.007	0.002
Portknockie	-	25	66.47	4,418.13	43.38	0.02	0.001	<0.001
Portsoy to Cullen	Garron Point	21	66.02	4,358.24	45.99	0.02	0.001	<0.001
	Redhythe Point	40	66.29	4,393.97	46.72	0.02	0.001	<0.001
Rosehearty to Bay of Cullen	Head of Garness	109	66.92	4,478.29	55.65	0.02	0.003	0.001
Rousay SPA	Rousay 1 - RSPB	44	115.57	13,357.12	86.99	0.01	<0.001	<0.001
	Rousay 11	56	113.80	12,949.98	88.51	0.01	<0.001	<0.001
	Rousay 12	86	112.52	12,659.63	88.55	0.01	0.001	<0.001
	Rousay 13	11	111.10	12,343.65	88.93	0.01	<0.001	<0.001
	Rousay 2	28	115.83	13,417.05	87.31	0.01	<0.001	<0.001
	Rousay 4	193	118.01	13,925.18	87.54	0.01	0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Rousay 5	138	118.77	14,106.79	87.87	0.01	0.001	<0.001
	Rousay 6	44	117.49	13,803.43	88.04	0.01	<0.001	<0.001
	Rousay 7	5	116.46	13,563.86	88.20	0.01	<0.001	<0.001
	Rousay 8	8	115.79	13,408.02	88.15	0.01	<0.001	<0.001
Sanday	Sanday 5	15	113.55	12,892.92	89.42	0.01	<0.001	<0.001
Scapa Bay to St. Marys	Holm 4	204	81.76	6,684.53	79.29	0.01	0.003	0.001
Shapinsay (Coastal)	Shapinsay 10	28	91.26	8,328.75	86.06	0.01	<0.001	<0.001
	Shapinsay 8	74	90.45	8,181.02	85.90	0.01	0.001	<0.001
	Shapinsay 9	121	90.26	8,147.23	86.24	0.01	0.001	<0.001
Smoo to Melvich	Melvich 5	27	109.44	11,977.99	58.55	0.02	<0.001	<0.001
	Skullomie 1	24	132.90	17,661.08	55.45	0.02	<0.001	<0.001
	Strathy 1	83	111.75	12,486.95	59.03	0.02	0.001	<0.001
	Strathy 2	1	113.62	12,908.37	58.61	0.02	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
South Ronaldsay	Burwick - Sandwich	21	63.47	4,028.31	78.69	0.01	<0.001	<0.001
	Quindry - Hoxa - Dam of Hoxa	39	70.28	4,938.72	79.53	0.01	0.001	<0.001
	Stews - Windwick	185	63.32	4,009.30	78.29	0.01	0.004	0.001
	The Altar - Quindry	332	70.04	4,905.60	79.87	0.01	0.006	0.002
	Windwick - Burwick	556	63.34	4,011.83	79.11	0.01	0.013	0.004
South Sutor	South Sutor 3	3	108.54	11,780.06	17.98	0.06	<0.001	<0.001
	South Sutor All (2-6)	4	110.37	12,181.54	17.62	0.06	<0.001	<0.001
Strathlene to Portknockie	Tronach Head	38	66.57	4,431.70	42.52	0.02	0.001	<0.001
Stromness Area, Hundland	Yesnaby 1	1	100.12	10,023.41	83.63	0.01	<0.001	<0.001
	Yesnaby 2	74	101.76	10,354.08	83.43	0.01	0.001	<0.001
Stronsay	Burgh Head 1	3	93.29	8,703.02	89.42	0.01	<0.001	<0.001
	Burgh Head 2	3	92.70	8,593.66	89.40	0.01	<0.001	<0.001
	Rothiesholm Head 2	13	95.36	9,093.53	88.66	0.01	<0.001	<0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Sule Skerry and Sule Stack SPA	Sule Skerry	13	144.45	20,865.80	81.41	0.01	<0.001	<0.001
Switha	Switha (Whole Island)	310	68.62	4,708.98	78.99	0.01	0.006	0.002
Westray	Westray 10	150	116.57	13,589.50	89.18	0.01	0.001	<0.001
Yesnaby - Ness Point, Stromness	Grid Square HY2110	1	94.21	8,875.15	83.20	0.01	<0.001	<0.001
	Grid Square HY2111	9	95.03	9,031.08	83.40	0.01	<0.001	<0.001
	Grid Square HY2112	16	95.96	9,207.55	83.45	0.01	<0.001	<0.001
	Grid Square HY2113	32	97.13	9,433.65	83.40	0.01	<0.001	<0.001
	Grid Square HY2114	74	97.98	9,599.10	83.52	0.01	0.001	<0.001
	Grid Square HY2115/2215	1	98.98	9,796.05	83.77	0.01	<0.001	<0.001
	Grid Square HY2210	23	93.58	8,757.97	83.13	0.01	<0.001	<0.001
Yesnaby to Marwick (West Mainland)	Grid Square HY2217	36	101.17	10,235.57	84.05	0.01	<0.001	<0.001
	Row Head	413	102.90	10,587.38	84.03	0.01	0.003	0.001

Site	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Ythan Estuary, Sands of Forvie and Meikle Loch SPA	Sands of Forvie	84	120.37	14,489.90	65.21	0.02	0.001	<0.001
* Applying Harris <i>et al.</i> (2015 ³) correction factor x 1.34 for total adult breeding numbers. ** Counts from Swann (2016 ⁶).								

2.4 Puffin

- 2.4.1.1 Table 2-4 provides the puffin breeding season apportioning calculations based on the NatureScot Apportionment methodology (NatureScot, 2018¹).

Table 2-4: Puffin breeding season apportioning calculations based on the NatureScot Apportionment methodology.

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Designated Sites Screened in for Assessment								
North Caithness Cliffs SPA	Duncansby Head	22	51.72	2,675.27	76.44	0.01	0.001	<0.001
	Dunnet Head 1	66	71.69	5,139.46	75.75	0.01	0.002	0.001
	Dunnet Head 2	386	72.29	5,225.12	75.72	0.01	0.007	0.004
	Dunnet Head 3	396	73.59	5,415.78	75.44	0.01	0.007	0.004
	Dunnet Head 4	158	76.55	5,860.51	74.65	0.01	0.003	0.001
	Dunnet Head 5	276	80.37	6,459.18	74.10	0.01	0.004	0.002
	Holburn Head 2	94	84.99	7,222.45	73.58	0.01	0.001	0.001
	Holburn Head 3	48	85.89	7,377.61	73.47	0.01	0.001	<0.001
	Little Clett	12	70.75	5,005.42	75.69	0.01	<0.001	<0.001
	Melvich 1	538	103.68	10,750.37	71.84	0.01	0.005	0.003
	Melvich 2	2,646	104.48	10,915.86	71.62	0.01	0.024	0.014
	Melvich 3	1,008	105.43	11,114.43	71.56	0.01	0.009	0.005
	Melvich 4	246	107.10	11,470.84	71.68	0.01	0.002	0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Ness of Litter	78	90.85	8,252.81	73.66	0.01	0.001	0.001
	Sandside Head 1	58	101.70	10,342.28	72.10	0.01	0.001	<0.001
	Sandside Head 2	14	102.84	10,576.89	72.06	0.01	<0.001	<0.001
	Skirza Head	48	48.40	2,342.66	66.08	0.02	0.002	0.001
	Stacks of Duncansby	152	50.14	2,513.82	76.23	0.01	0.006	0.003
	Stroma Island	520	58.32	3,401.11	76.74	0.01	0.014	0.008
Hoy SPA	Hoy RSPB Reserve	356	88.28	7,792.48	78.85	0.01	0.008	0.005
	HOY17	8	74.90	5,610.61	77.58	0.01	<0.001	<0.001
	HOY29	2	82.26	6,767.04	79.16	0.01	<0.001	<0.001
	HOY5	4	92.14	8,488.86	79.62	0.01	<0.001	<0.001
	HOY7	188	92.78	8,608.13	79.15	0.01	0.004	0.002
	HOY8	156	89.87	8,076.98	79.09	0.01	0.003	0.002
	Old Man of Hoy to Rora Head	8	87.91	7,727.46	78.75	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Cape Wrath SPA	Cape Wrath 4	20	168.28	28,317.82	75.61	0.01	<0.001	<0.001
	Clo Mor 1	16	159.68	25,497.70	74.43	0.01	<0.001	<0.001
	Clo Mor 10	50	164.66	27,113.24	75.03	0.01	<0.001	<0.001
	Clo Mor 11	26	166.06	27,574.93	75.00	0.01	<0.001	<0.001
	Clo Mor 7	16	161.87	26,202.87	74.92	0.01	<0.001	<0.001
	Clo Mor 8	58	162.89	26,531.52	74.91	0.01	<0.001	<0.001
	Clo Mor 9	242	163.86	26,850.43	74.89	0.01	0.002	0.001
Sule Skerry and Sule Stack SPA	-	95,484	146.50	21,461.08	81.36	0.01	0.384	0.225
Fair Isle SPA	-	13,332	155.22	24,091.70	91.93	0.01	0.085	0.050
Foula SPA	-	12,702	216.73	46,973.63	95.51	0.01	0.040	0.023
North Rona and Sula Sgeir SPA	North Rona	5,560	226.61	51,349.83	84.65	0.01	0.009	0.005
	Sula Sgeir	108	244.80	59,925.08	84.59	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Noss SPA	Noss	1,090	233.79	54,659.63	96.31	0.01	0.001	0.001
	SE Bressay = E Bressay (Shetland) Z	104	228.92	52,403.45	97.39	0.01	<0.001	<0.001
Forth Islands SPA	Bass Rock	8	269.52	72,638.34	38.73	0.03	<0.001	<0.001
	Craighleith	10,270	271.16	73,528.83	37.47	0.03	0.052	0.031
	Fidra	1,832	272.43	74,217.02	36.58	0.03	0.009	0.006
	Inchmickery RSPB	56	299.31	89,584.68	28.06	0.04	<0.001	<0.001
	Isle of May	104,208	256.26	65,671.24	41.43	0.02	0.538	0.316
	The Lamb	1,586	271.88	73,916.02	37.06	0.03	0.008	0.005
Additional Colonies and Non-designated Sites								
Auskerry SPA	-	866	87.21	7,605.93	83.64	0.01	0.019	0.011
Bigton to Maywick	-	220	211.30	44,649.38	96.47	0.01	0.001	<0.001
Birsay Cliffs - Point of	Skipi Geo to Whitaloo Point	6	114.16	13,032.96	82.78	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Buckquoy to Loop of Cruie	Whitaloo Point to Loop of Cruie	70	115.09	13,244.79	82.92	0.01	0.001	0.001
Bressay	Geos of the Veng	2	226.63	51,362.97	95.77	0.01	<0.001	<0.001
	HU5139 ÔÇô SKUA/GBBG	52	230.39	53,081.40	95.57	0.01	<0.001	<0.001
Brough of Birsay	-	10	112.60	12,678.53	82.53	0.01	<0.001	<0.001
Buchan Ness to Collieston Coast SPA	-	118	111.65	12,466.39	64.84	0.02	0.002	0.001
Burn of Daff	Black Slough to Burn of Daff	14	153.74	23,635.68	56.54	0.02	<0.001	<0.001
Caithness - Wick Bay to Freshwick Bay	Noss Head	6	38.67	1,495.52	72.56	0.01	0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Calf of Eday SPA	Calf of Eday	2	112.32	12,615.11	85.61	0.01	<0.001	<0.001
	Eday 20	12	110.22	12,147.79	85.35	0.01	<0.001	<0.001
	Eday 4	2	113.50	12,881.34	85.74	0.01	<0.001	<0.001
	Eday 5	78	114.46	13,101.55	85.64	0.01	0.001	0.001
	Eday 6	2	114.59	13,130.87	85.61	0.01	<0.001	<0.001
Carr Craig, Eyebroughy and Haystack	Inchcolm	44	299.57	89,744.58	27.81	0.04	<0.001	<0.001
	Inchkeith	3,778	290.73	84,525.10	30.36	0.03	0.021	0.012
Catterline to Inverbervie	Rouen Bay	4	174.78	30,547.70	53.21	0.02	<0.001	<0.001
	The Slainges	10	174.03	30,286.79	53.35	0.02	<0.001	<0.001
	Whistleberry	6	175.72	30,876.11	53.05	0.02	<0.001	<0.001
Copinsay SPA	Black Holm	134	74.08	5,451.75	81.49	0.01	0.004	0.002
	Copinsay	1,288	73.04	5,334.11	81.46	0.01	0.042	0.024
	Corn Holm	362	73.84	5,451.75	81.47	0.01	0.011	0.007
	Ward Holm	420	73.45	5,395.49	81.42	0.01	0.013	0.008

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Costa Head	Costa Head	38	118.82	14,117.72	83.20	0.01	<0.001	<0.001
	Costa Hill Cliffs	8	118.28	13,989.92	83.26	0.01	<0.001	<0.001
Deerness	Mull Head - cliff-nesters	4	82.05	6,731.55	82.31	0.01	<0.001	<0.001
Droman to Geodha Ruadh na Fola	-	792	180.22	32,478.17	74.33	0.01	0.005	0.003
East Caithness Cliffs SPA**	-	378	47.40	2,246.76	62.30	0.02	0.038	0.022
East Mainland - Orkney - Tysties	Copinsay RSPB Reserve - Tysties	986	73.53	5,406.66	81.49	0.01	0.031	0.018
Eynhallow	-	174	113.92	12,976.86	83.33	0.01	0.002	0.001
Faraid Head/Balnakeil	Faraid Head 2	10	156.18	24,393.44	73.90	0.01	<0.001	<0.001
	Faraid Head 3	24	155.61	24,213.85	73.83	0.01	<0.001	<0.001
	Faraid Head 4	184	155.38	24,142.32	73.75	0.01	0.001	0.001
	Faraid Head 5	20	155.54	24,193.94	73.61	0.01	<0.001	<0.001
	Smoo 2	24	154.69	23,929.61	73.71	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Fetlar SPA	Big Holm to Moo Wick	250	281.40	79,187.65	98.25	0.01	<0.001	<0.001
	Horn of Rams Ness to Rams Ness	2	279.62	78,186.79	98.23	0.01	<0.001	<0.001
	HU610870 - SKUA/GBBG	2	279.64	78,199.65	98.22	0.01	<0.001	<0.001
	Klifts to Big Holm	16	282.99	80,081.64	98.26	0.01	<0.001	<0.001
	Moo Wick to Horn of Rams Ness	46	280.18	78,503.07	98.26	0.01	<0.001	<0.001
	Rams Ness to Corbie Head	98	281.68	79,342.50	98.33	0.01	<0.001	<0.001
Findon Ness - Hare Ness	Findon Ness to Black Slough	4	151.79	23,041.42	56.98	0.02	<0.001	<0.001
	Hare Ness to Seal's Cove	20	149.41	22,323.65	57.36	0.02	<0.001	<0.001
	Seal's Cove to Findon Ness	14	150.73	22,719.23	57.17	0.02	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Flotta & Calf of Flotta	Flotta 5	4	69.95	4,893.14	78.98	0.01	<0.001	<0.001
	Flotta 6	8	69.81	4,872.88	78.56	0.01	<0.001	<0.001
Fowlsheugh SPA	Fowlsheugh RSPB	32	169.30	28,662.15	54.01	0.02	<0.001	<0.001
	Swallow Cove - Crawton	242	171.04	29,255.37	53.81	0.02	0.002	0.001
	Thornyhive Bay	8	167.92	28,196.12	54.09	0.02	<0.001	<0.001
	Tremuda/Old Hall Bay	14	167.19	27,953.50	54.16	0.02	<0.001	<0.001
Green Holms	Muckle Green Holm	66	100.79	10,158.22	83.94	0.01	0.001	0.001
Gulberwick to Fladdabister	Leea Geo to Gardie Taing	26	222.76	49,622.46	94.17	0.01	<0.001	<0.001
	Ness of Setter to Broch of Burriland	10	226.20	51,167.34	94.55	0.01	<0.001	<0.001
	Scarf Taing to Leea Geo	30	223.86	50,113.75	93.99	0.01	<0.001	<0.001
Handa SPA	Handa Island	1,444	201.62	40,651.03	70.94	0.01	0.007	0.004

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Heylor to Stenness	Calders Geo	6	261.61	68,441.88	97.54	0.01	<0.001	<0.001
	Dore Holm	4	259.04	67,103.28	97.89	0.01	<0.001	<0.001
	Ockran Head and Hamnavoe	2	266.65	71,101.16	98.00	0.01	<0.001	<0.001
Horse Island, Colsay, Little and Ladies Holm to Fitful Head	Stack o' da Noup	186	203.18	41,283.74	96.13	0.01	0.001	<0.001
Horse of Copinsay	Horse of Copinsay	10	74.16	5,500.30	81.66	0.01	<0.001	<0.001
Housabister to Catfirth	Hoo Stack	6	242.64	58,874.17	97.74	0.01	<0.001	<0.001
	Little Loch to Eswick Holm	8	243.41	59,247.94	97.79	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Hoy and South Walls - Tysties	HOY 01 - Tysties	142	69.69	4,856.42	78.44	0.01	0.005	0.003
	HOY 02 - Tysties	232	69.99	4,898.18	77.92	0.01	0.009	0.005
	HOY 03 - Tysties	10	71.89	5,167.60	77.93	0.01	<0.001	<0.001
	HOY 04 - Tysties	2	72.48	5,253.35	77.78	0.01	<0.001	<0.001
	HOY 05 - Tysties	2	73.40	5,387.85	77.41	0.01	<0.001	<0.001
	HOY 06 - Tysties	16	74.20	5,505.19	77.55	0.01	0.001	<0.001
Huxter to Brindister	Staraster to Shaabers Head	52	249.46	62,228.30	96.28	0.01	<0.001	<0.001
Ireland to Maywick	Taing of Maywick to Maywick Bay	16	212.28	45,063.22	96.73	0.01	<0.001	<0.001
Laxo to Housabister (Nesting)	Hog Island to Dringa Neap	6	248.79	61,895.47	97.95	0.01	<0.001	<0.001
	Teistie Geo to Wick of Neap	18	249.66	62,329.62	97.96	0.01	<0.001	<0.001
	Wick of Neap to Hog Island	2	249.11	62,056.79	97.96	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Lerwick to Gulberwick	Ruggen to Holm of Sound	4	228.30	52,119.06	97.30	0.01	<0.001	<0.001
	The Knab	4	230.29	53,031.18	95.08	0.01	<0.001	<0.001
Loch of Vaara (Twatt)	Aith Ness	4	258.03	66,579.48	95.18	0.01	<0.001	<0.001
	HU3259-SKUA/GBBG	4	257.32	66,211.52	95.37	0.01	<0.001	<0.001
	HU3455 ÔÇô SKUA/GBBG	30	262.49	68,898.38	91.43	0.01	<0.001	<0.001
Lunan Bay to Arbroath	Auchmithie	10	211.13	44,576.30	46.39	0.02	<0.001	<0.001
	Whiting Ness to Ethie Haven 4	24	212.53	45,169.85	46.14	0.02	<0.001	<0.001
	Whiting Ness to Ethie Haven 7	12	208.53	43,486.01	46.86	0.02	<0.001	<0.001
	Whiting Ness to Ethie Haven 8	6	207.52	43,062.48	47.05	0.02	<0.001	<0.001
Marwick Head SPA	Marwick Head	24	109.70	12,033.65	81.96	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Maywick to Scalloway	Maywick to Holms Geo	10	215.01	46,227.58	96.86	0.01	<0.001	<0.001
	South Havra	82	214.71	46,098.67	96.69	0.01	<0.001	<0.001
Melvich to Duncansby Stacks SSSI	Dunnet Head RSPB	408	73.41	5,389.17	75.44	0.01	0.014	0.008
	St Johns Point	26	61.61	3,795.67	76.02	0.01	0.001	0.001
	Ushat Head 1	8	82.59	6,821.77	74.80	0.01	<0.001	<0.001
Mousa SPA	Mousa RSPB	40	213.25	45,475.56	96.79	0.01	<0.001	<0.001
Muckle Roe	Muckle Roe (cliff nesters)	30	260.23	67,717.57	97.84	0.01	<0.001	<0.001
Muckle Roe to Ura Firth	Egilsay, whole island	4	258.21	66,671.37	97.87	0.01	<0.001	<0.001
	Gunnister to Ness Head of Hamar	2	262.24	68,769.29	96.25	0.01	<0.001	<0.001
	North Point of Mill Geos to Nibon	4	259.20	67,185.68	95.62	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Newton Hill	Doonie Point to Hall Bay	4	159.57	25,461.95	55.31	0.02	<0.001	<0.001
Newtonhill - Hall Bay	Newtonhill - May Craig	6	156.81	24,588.12	55.94	0.02	<0.001	<0.001
No Ness to Levenwick and Boddam to Virkie	Quinni Geo to Boats Noost	16	207.30	42,972.46	96.35	0.01	<0.001	<0.001
North Sutherland Islands	Eilean Nan Ron 6	26	133.11	17,718.80	71.81	0.01	<0.001	<0.001
	Eilean nan Ron whole island	4	132.34	17,512.55	71.48	0.01	<0.001	<0.001
Out Skerries	Bound Skerry	120	266.73	71,147.03	97.82	0.01	<0.001	<0.001
	Bruray	208	268.38	72,028.90	97.64	0.01	<0.001	<0.001
	Filla	64	262.47	68,887.88	97.25	0.01	<0.001	<0.001
	North Benelip	2	263.66	69,516.60	97.34	0.01	<0.001	<0.001
Papa Westray - Tysties	Papa Westray 1 - Tysties	56	126.42	15,982.02	86.39	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Papa Westray (North Hill and Holm) SPA	Holm Of Papa Westray	8	126.06	15,892.13	86.75	0.01	<0.001	<0.001
	North Hill RSPB, Papa Westray	52	130.41	17,005.46	86.90	0.01	<0.001	<0.001
Pentland Firth Islands SPA	Swona	968	61.92	3,833.96	77.87	0.01	0.023	0.013
Portsoy to Cullen	Garron Point	32	66.02	4,358.24	57.35	0.02	0.001	0.001
Ramna Stacks and Gruney SPA	Gruney	10	287.08	82,412.06	98.57	0.01	<0.001	<0.001
Rerwick Head to Mirkady Point	Deerness 4	2	90.17	8,130.63	81.61	0.01	<0.001	<0.001
Ronas Hill - North Roe and Tingon - CLIFF NESTERS ONLY	Gruna Stack	522	273.69	74,906.76	98.07	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Ronas Hill - North Roe and Tingon SPA - INLAND	Ketligill Head to Point of Djubi Geo	2	274.54	75,374.41	98.05	0.01	<0.001	<0.001
Rousay SPA	Rousay 1 - RSPB	26	115.57	13,357.12	83.50	0.01	<0.001	<0.001
	Rousay 11	36	113.80	12,949.98	84.08	0.01	<0.001	<0.001
	Rousay 12	38	112.52	12,659.63	84.17	0.01	<0.001	<0.001
	Rousay 13	4	111.10	12,343.65	84.34	0.01	<0.001	<0.001
	Rousay 2	6	115.83	13,417.05	83.63	0.01	<0.001	<0.001
	Rousay 4	90	118.01	13,925.18	83.82	0.01	0.001	<0.001
	Rousay 5	16	118.77	14,106.79	84.03	0.01	<0.001	<0.001
	Rousay 6	20	117.49	13,803.43	84.13	0.01	<0.001	<0.001
	Rousay 7	40	116.46	13,563.86	84.25	0.01	<0.001	<0.001
	Rousay 8	2	115.79	13,408.02	84.24	0.01	<0.001	<0.001
Rysa Little and Cava	Cava	2	79.83	6,372.83	79.52	0.01	<0.001	<0.001
Sanday	Sanday 5	16	113.55	12,892.92	85.93	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Sandness	HU1755 - SKUA/GBBG	20	236.67	56,014.11	95.14	0.01	<0.001	<0.001
Sandvoe to Fethaland	Isle of Fethaland	28	285.81	81,687.93	98.46	0.01	<0.001	<0.001
Scalloway Islands	Sanda Stour	2	227.65	51,822.25	97.15	0.01	<0.001	<0.001
	The Nev (Island)	2	228.22	52,084.82	97.17	0.01	<0.001	<0.001
Scalloway Islands South	Cheynies	2	224.71	50,493.69	94.10	0.01	<0.001	<0.001
	Oxna	8	223.60	49,995.62	94.06	0.01	<0.001	<0.001
Shapinsay (Coastal)	Shapinsay 10	6	91.26	8,328.75	82.70	0.01	<0.001	<0.001
	Shapinsay 9	12	90.26	8,147.23	82.62	0.01	<0.001	<0.001
Shiant Isles SPA	Eilean Mhuire	12,584	281.52	79,250.70	66.50	0.02	0.017	0.010
	Galta Beag Group	11,256	284.36	80,859.47	66.71	0.01	0.015	0.009
	Galta Mor Group	22,030	285.06	81,259.77	66.94	0.01	0.028	0.017
	Garbh Eilean	83,520	283.03	80,105.98	66.64	0.02	0.110	0.065

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Skeld, Westerwick and Culswick	Burga Stacks to Caves	14	228.12	52,039.65	96.27	0.01	<0.001	<0.001
	Giltarump Stack	2	226.25	51,187.25	96.83	0.01	<0.001	<0.001
	Skeld, Westerwick and Culswick	14	234.56	55,018.86	96.19	0.01	<0.001	<0.001
	West Of The Nev - Stead Of Culswick	34	227.62	51,812.23	96.00	0.01	<0.001	<0.001
	Westerwick to West of The Nev	6	226.78	51,430.08	95.86	0.01	<0.001	<0.001
Smoo to Melvich	Melvich 5	12	109.44	11,977.99	71.60	0.01	<0.001	<0.001
	Strathy 1	22	111.75	12,486.95	71.88	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
South Ronaldsay	Burwick - Sandwick	4	63.47	4,028.31	78.09	0.01	<0.001	<0.001
	Hoxa Head (inland)	2	70.73	5,003.30	78.76	0.01	<0.001	<0.001
	Stews - Windwick	12	63.32	4,009.30	78.69	0.01	<0.001	<0.001
	The Altar - Quindry	32	70.04	4,905.60	78.90	0.01	0.001	<0.001
	Windwick - Burwick	38	63.34	4,011.83	78.36	0.01	0.001	<0.001
South Ronaldsay (West)	Herston	6	67.70	4,583.56	78.62	0.01	<0.001	<0.001
South Walls	-	2	70.42	4,959.12	78.31	0.01	<0.001	<0.001
St. Ninian's Isle	Hich Holm	16	207.47	43,042.14	96.34	0.01	<0.001	<0.001
	St. Ninian's Isle	128	207.68	43,130.57	96.37	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Stenness to Hillswick	Sandwick to Zoar Burn	10	262.05	68,669.68	97.30	0.01	<0.001	<0.001
	Zoar Burn to Braewick	8	262.04	68,666.01	97.42	0.01	<0.001	<0.001
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	2	165.99	27,553.34	54.27	0.02	<0.001	<0.001
Stromness Area, Hundland	Yesnaby 1	10	100.12	10,023.41	81.02	0.01	<0.001	<0.001
	Yesnaby 2	34	101.76	10,354.08	80.85	0.01	<0.001	<0.001
Stronsay	Burgh Head 2	2	92.70	8,593.66	84.36	0.01	<0.001	<0.001
Sumburgh Head Quarries	Compass Head	42	197.67	39,074.22	95.93	0.01	<0.001	<0.001
Sumburgh Head SPA	Grutness Pier to Greystane Geo	2	197.20	38,885.87	95.93	0.01	<0.001	<0.001
	Sandwick to Virkie: Boddam to Virkie within SPA	82	199.93	39,970.41	96.06	0.01	<0.001	<0.001
	Sumburgh Head	908	196.19	38,489.73	95.88	0.01	0.002	0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Sumburgh to Peerie Voe of Spiggie	Burn of Garth to Broad Stack	12	198.34	39,338.36	95.93	0.01	<0.001	<0.001
	Cloki Stack to Peerie Voe	4	205.61	42,277.12	96.23	0.01	<0.001	<0.001
	Colsay	186	205.71	42,318.25	96.27	0.01	<0.001	<0.001
	Kame to Corbie Geo	14	205.71	41,467.62	96.14	0.01	<0.001	<0.001
	Landvillas to Scarfi Taing	194	203.84	41,059.32	96.06	0.01	<0.001	<0.001
	Scarfi Taing to Noup o' Noss	332	203.64	41,257.33	96.09	0.01	0.001	<0.001
	Stack o' da Noup to Kame	160	202.63	41,433.82	96.12	0.01	<0.001	<0.001
	Stack of Barons Geo to The Nev	6	203.12	39,841.76	95.95	0.01	<0.001	<0.001
	The Kame to Landvillas	116	203.55	40,749.48	96.03	0.01	<0.001	<0.001
	The Nev to The Kame - Atlantic Puffin	174	199.60	40,462.13	95.99	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
	Whale Stack to Cloki Stack	68	201.87	41,683.35	96.14	0.01	<0.001	<0.001
Switha	Swetha (Whole Island)	42	68.62	4,708.98	78.41	0.01	0.001	<0.001
Troup, Pennan and Lion's Heads SPA	More Head-Crovie Pier (+Craigandargity skerry)	2	67.50	4,555.58	62.68	0.02	<0.001	<0.001
	Pennan Head	42	67.03	4,727.80	64.34	0.02	0.001	0.001
	Troup & Lion's Head RSPB (Coast & Reserve)	18	68.76	4,522.70	63.84	0.02	<0.001	<0.001
Ulsta to Whalefirth (Yell)	Fogla Lee to Ern Stack	22	290.98	84,666.45	98.60	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Walls to Dales	Footabrough to Dogs Head (cliffs-nesters)	16	231.95	53,799.87	94.59	0.01	<0.001	<0.001
	Point of Hus to Hevdigarth	6	231.03	53,372.55	94.36	0.01	<0.001	<0.001
	Quinni Geo to Uskie Geo	8	230.00	52,901.38	94.23	0.01	<0.001	<0.001
West Burra - Shetland	-Bannaminn to Croo Geo	4	217.02	47,096.38	94.58	0.01	<0.001	<0.001
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	34	126.52	16,006.30	85.90	0.01	<0.001	<0.001
	West Westray 1	2	127.43	16,239.42	86.00	0.01	<0.001	<0.001
	West Westray 4	38	124.69	15,546.35	85.83	0.01	<0.001	<0.001
	West Westray 5	16	123.44	15,237.93	85.74	0.01	<0.001	<0.001
	West Westray 6	22	121.77	14,826.72	85.54	0.01	<0.001	<0.001
	West Westray 7	2	120.60	14,544.12	85.43	0.01	<0.001	<0.001
Westray - Rapness	Castle o' Burrian	3,068	118.30	13,994.42	85.70	0.01	0.018	0.011

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Westray and adjacent Holms - Tysties	Westray 6 - Tysties	142	125.09	15,648.01	86.27	0.01	0.001	<0.001
Whalsay	Colvigirts to Veeda Stack	2	254.48	64,760.58	97.84	0.01	<0.001	<0.001
	Kirni Geo to Croo Geos	38	257.34	66,221.82	97.95	0.01	<0.001	<0.001
	Meo Ness to the Haa	18	252.01	63,508.03	98.06	0.01	<0.001	<0.001
	Sandwick to Symbister Pier	14	253.76	64,394.65	96.22	0.01	<0.001	<0.001
Yell - East Coast	SE Yell (inc. Burravoe)	214	275.52	75,911.27	98.39	0.01	<0.001	<0.001
Yell Sound Islands	Bigga	4	275.88	76,108.12	97.67	0.01	<0.001	<0.001
	Muckle Holm	100	265.93	70,717.70	98.16	0.01	<0.001	<0.001
	Fish Holm	16	276.81	76,625.99	97.84	0.01	<0.001	<0.001

Site Name	Component of SPA/Site	Breeding Individuals*	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting Weight	Proportional Weight
Yesnaby to Marwick (West Mainland)	Grid Square HY2217	10	101.17	10,235.57	81.49	0.01	<0.001	<0.001
	Grid Square HY2221	6	105.19	11,064.94	81.79	0.01	<0.001	<0.001
* Applying correction factor x 2.00 for total adult breeding numbers (Hughes <i>et al.</i> 2019 ⁴ ; Mitchell <i>et al.</i> 2004 ⁵). ** Counts from Swann (2016 ⁶) SNH report.								

2.5

Gannet

2.5.1.1

Table 2-5 provides the gannet breeding season apportioning calculations based on the NatureScot Apportionment methodology (NatureScot, 2018¹).

Table 2-5: Gannet breeding season apportioning calculations based on the NatureScot Apportionment methodology.

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting weight	Proportional weight
Designated Sites Screened in for Assessment								
Sule Skerry and Sule Stack SPA	Sule Skerry	6,548	146.50	21,461.08	87.16	0.01	0.045	0.029
	Sule Stack	9,100	147.60	21,784.28	86.77	0.01	0.062	0.040
Fair Isle SPA	-	11,184	155.22	24,091.70	84.01	0.01	0.072	0.046
Forth Islands SPA	Bass Rock	162,000	269.52	72,638.34	47.61	0.02	0.607	0.394
North Rona and Sula Sgeir SPA	-	18,990	244.80	59,925.08	86.89	0.01	0.047	0.031
Noss SPA	-	24,670	233.79	54,659.63	83.20	0.01	0.070	0.046
Hermaness, Saxa Vord and Valla Field SPA	-	39,606	313.78	98,457.26	85.91	0.01	0.061	0.039
Additional Colonies and Non-designated Sites								
Flannan Isles SPA	West Group	10,560	331.66	109,996.37	81.50	0.01	0.015	0.010
Foula SPA	Foula	4,227	216.73	46,973.63	86.88	0.01	0.013	0.009

Site Name	Component of SPA/Site	SMP Database Counts (Individuals)	Distance to Caledonia North Site (km)	Distance ²	Percentage of Foraging Range at Sea (P(Sea))	1/P(Sea)	Resulting weight	Proportional weight
Marwick Head SPA	Marwick Head	58	109.70	12,033.65	86.40	0.01	0.001	<0.001
Mingulay and Berneray SPA	Berneray	30	430.58	185,398.28	69.23	0.01	<0.001	<0.001
Rockall	Rockall	56	401.09	160,875.59	80.05	0.01	<0.001	<0.001
St Abb's Head to Fast Castle SPA	St Abb's Head NNR	236	281.18	79,061.63	47.50	0.02	0.001	0.001
St Kilda SPA	Boreray and Stacs	120,580	394.73	155,812.56	81.97	0.01	0.122	0.079
Troup, Pennan and Lion's Heads SPA	Troup & Lion's Head RSPB (Coast & Reserve)	8,752	67.25	4,522.70	69.26	0.01	0.362	0.235
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	2,772	126.52	16,006.30	86.94	0.01	0.026	0.017

References

- ¹ NatureScot (2018) 'Interim Guidance on apportioning impacts from marine renewable developments to breeding seabird populations in SPAs'. Available at: <https://www.nature.scot/doc/interim-guidance-apportioning-impacts-marine-renewable-developments-breeding-seabird-populations> (Accessed 26/06/2024)
- ² Burnell, D., Perkins, A.J., Newton, S.F., Bolton, M., Tierney, T.D, and Dunn, T.E. (2023). Seabird Counts A census of breeding seabirds in Britain and Ireland (2015 – 2021). Lynx Nature Books.
- ³ Harris, M.P., Heubeck, M., Newell, M.A. and Wanless, S. (2015) 'The need for year-specific correction factors (k values) when converting counts of individual Common Guillemots *Uria aalge* to breeding pairs'. Bird Study 62(2): 276-279
- ⁴ Hughes, R.D., Le Bouard, F., Bradbury, G. and Owen, E. (2019). 'A Census of the Atlantic Puffins *Fratercula arctica* breeding on Orkney in 2016'. Seabird 31:.56-63.
- ⁵ Mitchell, P. I., Newton, S. F., Ratcliffe, N. and Dunn, T. E. (2004). 'Seabird Populations of Britain and Ireland'. T and A D Poyser; London.
- ⁶ Swann, B. (2016) 'East and North Caithness Cliff SPAs monitoring 2013: plot counts and breeding productivity'. Scottish Natural Heritage Commissioned Report No. 622. Available at: <https://www.nature.scot/sites/default/files/Publication%202016%20-%20SNH%20Commissioned%20Report%20622%20-> (Accessed 01/09/2024)

Caledonia Offshore Wind Farm
5th Floor, Atria One
144 Morrison Street
Edinburgh
EH3 8EX

www.caledoniaoffshorewind.com

