Cerulean Winds Aspen Project Limited

Aspen Offshore Wind Farm

Offshore Environmental Impact Assessment Report

Volume 3, Appendix 12.7: Offshore Ornithology Apportionment Report

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Contents

Annexes

Tables

Defined Terms

Term	Definition
Applicant	Cerulean Winds Aspen Project Limited.
Aspen Array Area	The area in which the generation infrastructure for Aspen Offshore Wind Farm (OWF), including Wind Turbine Generators (WTGs) and Offshore Substation Platforms (OSPs) will be located.
Aspen Lease Area	The site for which Cerulean Winds (UKCS) Ltd was awarded an Exclusivity Agreement. The Aspen Lease Area totals 333 km^2 in which the Aspen Array Area will be sited.
EIA Directive	European Union Directive 85/337/EEC.
EIA Regulations	The collective term used to refer to the following: ▪ The Electricity Works (Environmental Impact Assessment)(Scotland) Regulations 2017; ▪ The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017; and ▪ The Marine Works (Environmental Impact Assessment) Regulations 2007.
Environmental Impact Assessment (EIA)	A statutory process whereby planned projects must be assessed before a formal decision to proceed can be made. It involves assessment requirements outlined in the EIA Regulations, including the collection and consideration of environmental information, which fulfils the publication of an Environmental Impact Assessment Report (EIAR).
Exclusivity Agreement	Exclusivity Agreements in the Innovation and Targeted Oil and Gas (INTOG) leasing round give successful applicants sole offshore wind development rights over the site while the planning processes for the INTOG Sectoral Marine Plan (SMP) are completed. If the project is in the final INTOG SMP, an Option Agreement can be awarded once its terms are agreed.
Floating Foundations	The foundations on which the Wind Turbine Generators (WTGs) are installed.
Foundation Anchors	The structure which anchors the moorings to the seabed.
Foundation Moorings	The chains/synthetics that connect the Floating Foundations to the Foundation Anchors to maintain floater station.
High Voltage Alternating Current (HVAC)	Refers to where the flow of electric current reverses direction in a regular frequency. HVAC supports bulk power flow over short to medium transmission distances.
High Voltage Direct Current (HVDC)	Refers to high voltage electricity in direct current form where current flows in one direction only. HVDC supports longer transmission infrastructure due to not experiencing reactive losses.
Inter-array Cables (IACs)	Cables which link the Wind Turbine Generators (WTGs) to each other and to the Offshore Substation Platforms (OSPs) within the Aspen Array Area.
Inter-link Cables	Cables that will link Offshore Substation Platforms (OSPs) within the Aspen Array Area.
Intertidal Area	The area located between Mean Low Water Springs (MLWS) and Mean High Water Springs (MHWS).

Term	Definition
Landfall	The area between Mean Low Water Spring (MLWS) and Mean High Water Spring (MHWS) where the Offshore Transmission Cables (OTCs) will connect onshore to offshore.
North Sea Transition Deal (NSTD)	A UK government framework supporting the transition of the offshore energy sector from oil and gas to low-carbon energy, including offshore wind, while promoting investment, reducing emissions, and safeguarding jobs in the industry.
Offshore Environmental Impact Assessment Report (Offshore EIAR)	The published report of the Environmental Impact Assessment (EIA) that will be undertaken for the Proposed Development.
Offshore Substation Platform (OSP)	Offshore platform consisting of High Voltage Alternating Current (HVAC) substations or High Voltage Direct Current (HVDC) substations.
Offshore Transmission Cable Corridor (OTC Corridor)	The area within which the Offshore Transmission Cables (OTCs) will be installed.
Offshore Transmission Cables (OTCs)	The subsea electricity cables running from Landfall in the region of Stonehaven to the Offshore Substation Platform(s) (OSP(s)) in Aspen Array Area. The OTCs will act as both a demand and supply cable. The OTCs will provide both traditional supply of power to grid but also ensures robust secure power supply to oil and gas assets when the Aspen Array Area is not generating sufficient renewable power to support their demand.
Offshore Wind Farm (OWF)	The proposed generation infrastructure comprising of Wind Turbine Generators (WTGs) and associated, Offshore Substation Platform(s) (OSP(s)), foundations and substructures and Inter-array Cables (IACs).
Option Agreement	The property agreement that gives the tenant specific and exclusive development rights within the awarded area for a fixed period. An Option Agreement can be granted if the applicant's proposed project is in the final Innovation and Targeted Oil and Gas Sectoral Marine Plan (INTOG SMP). If any proportion (up to ten percent 10%) of the proposed project is out with the final INTOG SMP, an Option Agreement may still be awarded but only for an area consistent with marine planning considerations and the final INTOG SMP.
Project	Aspen Offshore Wind Farm (OWF) - comprises the wind farm and all associated offshore and onshore components.
Proposed Development	The offshore components of the Project (Aspen Offshore Wind Farm) which include all offshore infrastructure associated with Aspen Array Area and the Offshore Transmission Cables (OTCs).
Ramsar Site	Wetlands of international importance designated under the Ramsar Convention.
Scottish Ministers	Ministers of the devolved Scottish Government, who exercise statutory functions transferred from the UK Government. The Scottish Ministers support the First Minister in leading the Scottish Government.
Wind Turbine Generator (WTG)	The wind turbine that generates electricity consisting of tubular towers and blades attached to a nacelle housing mechanical and electrical generating equipment.

Acronyms

Acronym	Definition
BTO	British Trust for Ornithology
CoSA	Component of a seabird assemblage
DAS	Digital Aerial Surveys
HRA	Habitat Regulations Appraisal
IND	Individuals
IOF	Important Ornithological Feature
KM	Kilometre
MMF	Mean Maximum Foraging Range
MMF±1SD	Mean Maximum Foraging Range Plus One Standard Deviation
OSA	Offshore Survey Area
OSP	Offshore Substation Platform
OTC	Offshore Transmission Cable
OWF	Offshore Wind Farm
RIAA	Report to Inform Appropriate Assessment
SD	Standard Deviation
SMP	Seabird Monitoring Programme
WTG	Wind Turbine Generator

1 Introduction

1.1.1 Cerulean Winds Aspen Project Limited (hereafter referred to as the 'Applicant') is proposing to develop the Aspen Offshore Wind Farm (hereafter referred to as 'the Project'). The Project is made up of both offshore and onshore components. The subject of the Offshore Environmental Impact Assessment Report (Offshore EIAR) is the offshore infrastructure of the Project seaward of Mean High Water Springs (MHWS) which is hereafter referred to as 'the Proposed Development'.

1.1.2 The Aspen Array Area covers an area of approximately 333 km^2 and is located approximately 84 km east of Peterhead on the east coast of Scotland. The offshore infrastructure of the Proposed Development includes Wind Turbine Generators (WTGs) and associated floating foundations, Offshore Substation Platform(s) (OSP(s)) and associated foundations, the Inter-array Cables (IACs), Inter-link Cables, Offshore Transmission Cables (OTCs) and Landfall.

1.1.3 This Offshore Ornithology Appendix relates specifically to the Aspen Offshore Wind Farm (OWF) (the 'Proposed Development') Report to Inform Appropriate Assessment (RIAA).

1.1.4 The Proposed Development will consist of the following components:

- Up to 72 offshore Wind Turbine Generators (WTGs) and associated infrastructure (nacelle and blades), Floating Foundations, Foundation Moorings and Foundation Anchors;
- Up to three Offshore Substation Platforms (OSPs) and foundations;
- Inter-array Cables (IACs) - Cables which link the WTGs to each other and to the OSP(s) within Aspen Array Area;
- Inter-link Cables - Cables which link OSPs;
- Offshore Transmission Cables (OTCs) - The subsea electricity cable running from Landfall to the OSP(s) in Aspen Array Area; and
- Cable protection on unburied or shallow buried sections of cables and at cable crossings as and when required.

1.1.5 Herein are presented the results of the breeding and non-breeding season Habitat Regulations Appraisal (HRA) apportionment of the potential impacts of the Proposed Development on Special Protection Areas (SPAs). The apportionment methods used follow NatureScot's (2018) guidance and is based on 24 months of baseline digital aerial survey (DAS) data. Surveys were undertaken between April 2023 and February 2025, with two surveys undertaken in April 2023 and one per month thereafter. The results used are from within the Proposed Development Array Area plus a four-kilometre (km) survey buffer (collectively referred to as the Offshore Ornithology Survey Area, hereafter 'OOSA').

2 Methodology

2.1 Breeding Season

Apportioning

2.1.1 Apportioning was undertaken following the guidance presented in NatureScot (2018) for specific seabird populations during the breeding season. Seabirds are central place foragers in the breeding season (with the nest site being the central place), thus breeding adults return regularly to their colony. This results in a limited foraging range as a consequence of there being an energetic and time advantage to be gained from foraging as close to the nest site as possible. Beyond a certain distance, which varies between species, the adult will be unable to forage fast enough to successfully fledge young (NatureScot, 2018). Consequently, it is assumed that all breeding adult birds potentially impacted by the Proposed Development during the breeding season are able to be linked to colonies within their species-specific foraging range. The NatureScot (2018) guidance presents an evidence-based methodology which has been utilised herein to determine which colonies these potential impacts can be attributed to during the breeding biological season of each species, referred to by NatureScot more simply as seasons, as defined in NatureScot (2020) and in **Volume 3, Appendix 12.1: Offshore and Intertidal Ornithology Technical Baseline Report**. The NatureScot (2018) guidance is considered the most suitable for evaluating the potential impacts on seabird colonies from proposed offshore renewable energy projects in Scotland.

2.1.2 The NatureScot (2018) methodology estimates the proportion of breeding adults from species recorded within the OSA that are considered to be associated with each SPA colony within foraging range based on a set of specific parameters. The theoretical approach, which assesses species connectivity to SPAs, is broadly based on estimated foraging ranges. The guidance advises including all colonies within the mean-maximum foraging range for each species as presented in Thaxter *et al.* (2012) in apportioning calculations. However, subsequent to the publication of the 2018 guidance, it is now expected that designated site screening should be extended to include all those within the mean-maximum foraging ranges (plus 1 standard deviation, where applicable) ('MMF' or 'MMF±1SD') as presented in Woodward *et al*. (2019). Therefore, all SPA and non-SPA colonies within a species' MMF±1SD of the Aspen Array Area have been included. Where MMF±1SD data are not available, MMF from Woodward *et al*. (2019) has been used.

2.1.3 Along with foraging ranges, the apportioning methodology also considers three colony-specific weighting factors:

- Colony size (individuals; 'IND');
- Distance of the colony from the Aspen Array Area using at-sea measurements; and
- At sea foraging area (the extent of the open sea within the MMF±1SD (or MMF where SD data are unavailable) of the relevant species from each colony).

2.1.4 NatureScot (2018) provides the following equation, which has been used to calculate the apportioning results presented herein:

$$Weight = \left(\frac{Colony\ Population}{Sum\ of\ Populations}\right) \times \left(\frac{Sum\ of\ Distance^2}{Colony\ Distance^2}\right) \times \left(\frac{\frac{1}{Colony\ Sea\ Proportion}}{Sum\ of\ \frac{1}{Sea\ Proportions}}\right)$$

2.1.5 Breeding season apportioning is presented in Section 5.1.

Colony Population Sizes

2.1.6 To determine the proportion of seabirds in the OOSA associated with each SPA, the most recent colony count data were gathered from the Seabird Monitoring Programme (SMP) database (SMP, 2025) for all relevant SPAs and non-SAP colonies within MMF±1SD (or MMF where SD data are unavailable) for each species. The proportional contribution of each colony to the species recorded in the OSA was then calculated, apportioning out the number of birds to each SPA within MMF or MMF±1SD accordingly.

Distances Between Colonies and the OOSA

2.1.7 Distances were calculated in Geographic Information System (GIS) using measurements taken from the geometric centre of each colony to the geometric centre of the Aspen Array Area. Where straight-line distances crossed land, at-sea distances were calculated. Where two or more colonies were found to be located within a single SPA with connectivity to the Aspen Array Area (within foraging range), individual measurements were made from the centre of each colony as opposed to the centre of the SPA designation boundary, as per NatureScot (2018) guidance. However, if sites were within MMF±1SD (or MMF where SD data are unavailable) from the edge of the colony to the edge of the Aspen Array Area but exceeded the foraging range when measured centre to centre, these SPAs were included in the apportioning analysis on a precautionary basis due to potential connectivity with the Aspen Array Area.

Limitations of the Apportioning Approach

2.1.8 Use of the MMF±1SD may suggest that connectivity with distant sites is stronger than in reality. This metric takes the mean of the maximum foraging ranges from a suite of studies. By doing so it will have defined a foraging range that is already larger than that used by the vast majority of the birds across the suite of studies. The addition of one standard deviation (1SD) doubles this foraging range in many cases. As such, the metric describes the extremes of foraging potential in the species (and almost certainly beyond the extremes of foraging potential for the species at many individual colonies), and yet the metric is utilised as a definition for the bounds of normal behaviour.

2.1.9 This is illustrated using the foraging data collected for guillemot (Woodward *et al.*, 2019). The MMF±1SD for guillemot is 153.7 km. The Applicant has used a reduced foraging range for guillemot of 95.2 km, based on an MMFR+1SD that does not consider anomalous data from Fair Isle that were collected during a period of food shortage resulting in substantially longer foraging trips. Of 110 birds sampled in the dataset informing the Woodward *et al.,* (2019) foraging ranges, at least 92 (84%, i.e. birds from six of the seven studies) foraged within 65.1 km (and many of the remaining 18 substantially within the MMF±1SD, as the mean foraging range for these birds was 145.4). The mean foraging ranges for these 92 birds ranged between 2.9 and 32.4 km.

2.1.10 Therefore, it can be concluded that the majority of birds forage well within the bounds defined by the MMF±1SD. The MMF±1SD for guillemot of 95.2 km is 30.1 km beyond the maximum foraging range from six of the seven studies of this species.

2.1.11 As distance from the colony increases towards the higher end of the MMF±1SD, the Applicant considers it highly likely that an increasing proportion of the birds recorded on DAS surveys during the breeding season would be non-breeding adults or immature birds, given that the majority of adults would forage much closer to their colonies. Although apportioning can consider a sabbatical rate and a proportion of adult birds, it would do so uniformly across the foraging range described. As such this would not capture the likely higher proportions of non-breeding birds further from colonies, which would contribute to the over-estimation of the level of connectivity between a development area and a breeding SPA.

2.1.12 As such, the Applicant considers that the use of the MMF±1SD, even when the anomalous Fair Isle data are not included, is not an ecologically valid means of defining normal behaviour in breeding birds and should, therefore, not be used as means of defining connectivity between breeding colonies and offshore developments. However, in this case the Applicant has followed the relevant guidance regarding defining connectivity between the OOSA and breeding colonies.

2.2 Non-breeding Seasons

2.2.1 Non-breeding seasons refer to any season during which a given species is not breeding, so includes the seasons spent in non-breeding areas and also well-defined migratory periods.

2.2.2 Birds do not act as central place foragers outside of the breeding season, as they are engaged in either migratory movements to non-breeding grounds distant from the breeding colony, or on the non-breeding grounds, where there is no requirement to return to a central place. Birds breeding at colonies local to the Proposed Development may, therefore, spend the rest of the year a great distance from their colonies, and birds breeding at distant colonies may migrate through or spend the non-breeding season within the OOSA. As such, a different approach to that used for the breeding season is required.

2.2.3 The non-breeding season approach considers the populations contributed by each breeding SPA to the relevant Biologically Defined Minimum Population Scale (BDMPS). BDMPS are discreet areas of occupancy of birds during the non-breeding season as defined by Furness (2015). The contribution of each SPA for each non-breeding season is calculated by defining the population of breeding adults that remain within the BDMPS region (as per Furness, 2015) as a proportion of the overall BDMPS population for that season.

2.2.4 Non-breeding season apportioning is presented in Section 5.2.

2.3 Adult Proportions

2.3.1 A key factor in apportioning impacts to SPAs protecting breeding populations is the consideration of the proportion of adult birds within the survey data, as any birds younger than adult would not make up the SPA population. As such, allocation of an adult proportion ensures that impacts are allocated to breeding populations alone, rather than reflecting wider impacts, which are assessed at EIA.

2.3.2 The adult proportions used within the Applicant's apportioning represent the best available evidence, and are taken from Furness (2015), which uses stable age models to inform adult proportions within the wider population. The adult proportions used are presented in Table 2.1.

Table 2.1 Adult Proportions Derived From Furness (2015)

Species	Furness Adult Proportion
Kittiwake	0.53
Great black-backed gull	0.44
Herring gull	0.48
Guillemot	0.57
Razorbill	0.57
Puffin	0.55
Gannet	0.55

3 Bespoke Apportioning

3.1.1 Where the apportioning approaches described above are not thought to adequately reflect the contributions made by various SPAs in reality, bespoke approaches can be adopted.

3.2 NatureScot Bespoke Approaches

3.2.1 Recent NatureScot advice to other projects has been that guillemot are likely to attend colonies all year round, meaning that the apportioning defined by the breeding season approach should also be appropriate for the non-breeding season. As such, all impacts to guillemot from the proposed development will be apportioned to the Buchan Ness to Collieston Coast SPA.

3.2.2 The Applicant considers that this approach will over-apportion impacts in the non-breeding season to the Buchan Ness to Collieston Coast SPA. Tracking studies of guillemot during the non-breeding season have shown that birds from other colonies will utilise the OOSA during the non-breeding season. 50 % Kernel Density Contours (KDC) presented in Buckingham *et al.* (2023) show that the OOSA falls within the 50 % KDC for birds tracked from the Isle of May throughout the non-breeding season. Tracking data presented in Buckingham *et al*. (2022) demonstrates that the OOSA falls within the 50% KDC for birds tracked from colonies at Whinneyfold (within the Buchan Ness to Collieston Coast SPA), the Isle of May, East Caithness Cliffs and Fair Isle for both the mid-winter period, the post-breeding moult and the dispersal period.

3.2.3 As the best available evidence demonstrates that birds from a range of colonies will use the OOSA during the non-breeding period, the Applicant considers that an approach based on the contributions of breeding SPAs to the relevant BDMPS population is more likely to reflect actual non-breeding composition of guillemot using the OOSA. Therefore, this is presented herein as an alternative approach, alongside the approach advised by NatureScot.

3.3 Applicant Bespoke Approaches

Herring Gull

3.3.1 The Applicant has not apportioned herring gull breeding season impacts to any SPA, as no SPA colonies are within the MMF±1SD for this species. From edge to edge, the Buchan Ness to Collieston Coast SPA is within MMF±1SD, intersecting the marine extension by approximately 200 m. However, as the area potentially used by breeding birds lies at least 1.5 km beyond the MMF±1SD, it is assumed that there is no connectivity to the Aspen Array Area during the breeding season.

Guillemot

3.3.2 Guillemot data from surveys carried out in mid-July 2023 were considered to be more representative of post-breeding season behaviour rather than breeding season behaviour. Within the 4 km buffer, population estimates for guillemot during the core breeding season were consistently low, with estimates of 402, 104, and 467 in April, May and June 2023 respectively. However in July 2023, the estimate rose to 1,520 birds, indicating that substantial post-breeding dispersal was influencing numbers of birds within the study area. Although lower than the estimate for August (4,703 birds), the estimate of 1,520 is in line with that from September (1,762 birds) which along with August and mid to late July forms the core period of post-breeding dispersal. Given the timing and that the population estimates are aligned with post-breeding dispersal estimates and are substantially higher than breeding season estimates, guillemot data from July 2023 have been treated as non-breeding data rather than breeding season data. Details of the breeding season apportionment of individuals to Buchan Ness to Collieston Coast SPA can be found in **EIAR, Volume 3, Appendix 12.7: Offshore Ornithology Apportionment Report**.

3.3.3 The Applicant has used a bespoke evidence-based non-breeding regional population to contextualise non-breeding impacts. Tracking studies such as Buckingham et al., 2022 and Dunn et al., 2022 demonstrate that guillemot breeding in colonies on North Sea coasts in Scotland disperse widely in the non-breeding season, with birds from colonies from Orkney to Southern Scotland likely to be interacting with the Proposed Development. As such the Applicant considers that the regional non-breeding population should include all colonies within an area between (including) Orkney to the Farne Islands SPA. Using non-SPA populations for the UK North Sea from Furness (2015), it can be calculated that 19.2% of the birds from within this regional population have come from non-SPA colonies, and as such, the level of impact apportioned to the Buchan Ness to Collieston Coast SPA has been reduced by 19.2%. Given the proximity of the Buchan Ness to Collieston Coast SPA to the Proposed Development, remaining SPA impacts have all been apportioned to the Buchan Ness to Collieston Coast SPA as a precautionary approach.

4 Important Ornithological Features

4.1.1 The important ornithological features (IOFs) derived from the Aspen OWF DAS data, comprising the most abundant species recorded that are considered vulnerable to collision with WTGs or susceptible to disturbance and displacement from OWFs (as presented in the **Volume 2, Chapter 12: Offshore and Intertidal Ornithology**), have been subject to apportioning, as follows:

- Black-legged kittiwake *Rissa tridactyla* ('kittiwake') (breeding and non-breeding connectivity)*;*
- Great black-backed gull *Larus marinus* (non-breeding connectivity only)*;*
- Herring gull *Larus argentatus* (non-breeding connectivity only)*;*
- Common guillemot *Uria aalge* ('guillemot') (breeding and non-breeding connectivity);
- Razorbill *Alca torda* (breeding and non-breeding connectivity);
- Atlantic puffin, *Fratercula arctica* ('puffin') (breeding and non-breeding connectivity); and
- Northern gannet *Morus bassanus* ('gannet') (breeding and non-breeding connectivity).

4.1.2 Note that a correction factor of x1.34 (Harris *et al.*, 2015) has not been applied to counts for guillemot and razorbill. This is because all counts used in the apportioning process have been expressed as individuals and therefore there is no requirement to re-scale any counts making them in line with those that have been expressed as numbers of AOS or similar units.

4.1.3 As apportioning aims to define the proportion of birds allocated to each colony, the key requirement is to ensure all counts are in the same units, rather than to scale counts to any unit in particular.

5 Apportioning

5.1 Breeding Season

5.1.1 Table 5.1 presents the results of the breeding season apportionment process for all SPAs with connectivity to the Array Area for the IOFs detailed above with breeding season connectivity. Full results, including non-SPA colony apportionment, are presented in Table 6.1 - Table 6.5 in Annex A.1.

Table 5.1 SPA Breeding Season Apportioning Results

SPA	Kittiwake	Guillemot	Razorbill	Puffin	Gannet
Auskerry SPA	0.0%△	-	-	0.2%△	-
Buchan Ness to Collieston Coast SPA	**26.8%°**	**100.000%°**	49.7%△	<0.1%%△	-
Calf of Eday SPA	<0.1%°	-	-	<0.1%△	-
Cape Wrath SPA	**0.7%°**	-	-	-	-
Copinsay SPA	**0.2%°**	-	-	0.3%△	-
Coquet Island SPA	0.1%△	-	-	-	-
East Caithness Cliffs SPA	**10.6%°**	-	-	0.1%△	-
Fair Isle SPA	0.2%□	-	-	**1.5%°**	**3.2%°**
Farne Islands SPA	1.3%□	-	-	30.5%□	-
Firth of Forth SPA	0.7%△	-	-	-	-
Flamborough & Filey Coast SPA	-	-	-	-	**4.8%°**
Flannan Isles SPA	-		-	-	0.6%△
Forth Islands SPA	**4.7%°**	-	-	**53.3%°**	**62.6%°**
Foula SPA	<0.1%°	-	-	-	0.7%△
Fowlsheugh SPA	**23.6%°**	-	-	0.1%△	-
Hermaness, Saxa Vord & Valla Field SPA	-	-	-	-	**4.0%°**
Hoy SPA	**0.1%°**	-	-	<0.1%°	-
Marwick Head SPA	**0.4%°**	-	-	<0.1%△	<0.1%△
Mousa SPA	<0.1%△	-	-	<0.1%△	-
North Caithness Cliffs SPA	**3.6%°**	-	-	**0.6%°**	-
North Rona & Sula Sgeir SPA	-	-	-	-	**1.7%°**
Noss SPA	<0.1%°	-	-	<0.1%°	**4.3%°**
Papa Stour SPA	<0.1%△	-	-	-	-
Papa Westray SPA	<0.1%△	-	-	<0.1%△	-
Pentland Firth Islands SPA	<0.1%△	-	-	0.2%△	-
Rousay SPA	**0.2%°**	-	-	<0.1%△	-
St Abb's Head to Fast Castle SPA	**3.5%°**	-	-	<0.1%△	0.1%△
St Kilda SPA	-	-	-	-	**5.8%°**
Sule Skerry and Sule Stack SPA	<0.1%△	-	-	-	**2.4%°**
Sumburgh Head SPA	<0.1%°	-	-	<0.1%△	-
Troup, Pennan & Lion's Heads SPA	**6.3%°**	-	**47.3%°**	<0.1%△	9.2%△
West Westray SPA	**1.2%°**	-	-	<0.1%△	0.6%△

SPA	Kittiwake	Guillemot	Razorbill	Puffin	Gannet
Ythan Estuary, Sands of Forvie & Meikle Loch SPA	0.9%△	-	0.5%△	-	-
Total % Apportioned to SPA Colonies	85.3%	100.0%	97.5%	87.3%	100.0%

Bold text denotes SPA individual qualifying features.

° Both an individual qualifying feature and component of a seabird assemblage (CoSA) feature.

▫ CoSA feature only.

△ Species present but not a qualifying feature individually or as a CoSA feature.

5.2 Non-breeding Season

5.2.1 Table 5.2 presents the non-breeding season apportioning for all SPAs with theoretical connectivity to the Aspen Array Area during the non-breeding seasons.

5.2.2 For guillemot, the apportioning used in the Applicant Approach is presented, as NatureScot have advised that guillemot impacts during the non-breeding season should all be apportioned to the Buchan Ness to Collieston Coast SPA. All other SPAs follow the NatureScot guidance using the methodology outlined in Section 2.2.

Guillemot Applicant's Approach

5.2.3 Table 5.2The Applicant has used a bespoke evidence-based non-breeding regional population to contextualise non-breeding impacts. Tracking studies such as Buckingham et al., 2022 and Dunn et al., 2022 demonstrate that guillemot breeding in colonies on North Sea coasts in Scotland disperse widely in the non-breeding season, with birds from colonies from Orkney to Southern Scotland likely to be interacting with the Proposed Development. As such the Applicant considers that the regional non-breeding population should include all colonies within an area between (including) Orkney to the Farne Islands SPA. Using non-SPA populations for the UK North Sea from Furness (2015), it can be calculated that 19.2% of the birds from within this regional population have come from non-SPA colonies, and as such, the level of impact apportioned to the Buchan Ness to Collieston Coast SPA has been reduced by 19.2% (Table 5.2) . Given the proximity of the Buchan Ness to Collieston Coast SPA to the Proposed Development, remaining SPA impacts have all been apportioned to the Buchan Ness to Collieston Coast SPA as a precautionary approach.

Table 5.2 SPA Non-breeding Season Apportioning Results: Guillemot

SPA	Furness Population (breeding adults)	Percentage of regional BDMPS population (%)	Applicants Apportionment
West Westray	47,460	3.88%	0%
Calf of Eday	8,820	0.72%	0%
Rousay	8,680	0.71%	0%
Marwick Head	15,536	1.27%	0%
Hoy	8,820	0.72%	0%
Copinsay	7,850	0.64%	0%
North Caithness Cliffs	65,800	5.38%	0%
East Caithness Cliffs	149,100	12.18%	0%
Troup, Pennan & Lions	15,313	1.25%	0%
Buchan Ness to Collieston	**20,685**	**1.69%**	**80.78%**
Fowlsheugh	48,160	3.93%	0%
Forth Islands	26,413	2.16%	0%
St Abbs Head to Fast Castle	39,785	3.25%	0%
Farne Islands	60,358	4.93%	0%
UK North Sea non-SPA populations	**235,200**	**19.22%**	**19.22%**
Total evidence-led BDMPS (adults and immatures)	**1,223,989**	**61.93%**	**100%**

Razorbill

5.2.4 Table 5.3 presents the razorbill SPA apportioning results for non-breeding seasons, as follows:

- Post-breeding (mid-August to October);
- Non-breeding (November to December); and
- Pre-breeding (January to March).

5.2.5 Only SPAs with razorbill as an individual qualifying feature within the UK North Sea and Channel BDMPS region have been subject to non-breeding season apportionment.

Table 5.3 SPA Non-breeding Season Apportioning Results: Razorbill

SPA	Post-breeding Season SPA Weighting (%)	Non-breeding Season SPA Weighting (%)	Pre-breeding Season SPA Weighting (%)
East Caithness Cliffs SPA	4.2	3.4	4.2
Fair Isle SPA	0.3	0.3	0.3
Flamborough and Filey Coast SPA	3.4	2.7	3.4
Forth Islands SPA	0.9	0.7	0.9
Foula SPA	0.1	0.1	0.1
Fowlsheugh SPA	1.2	1.0	1.2
North Caithness Cliffs SPA	0.5	0.5	0.5
St Abb's Head to Fast Castle SPA	0.4	0.3	0.4
Troup, Pennan and Lion's Heads SPA	0.6	0.5	0.6
West Westray SPA	0.2	0.2	0.2
Total % Apportioned to SPA Colonies	11.8	9.7	11.8

Puffin

5.2.6 Table 5.4 presents the puffin SPA apportioning results for non-breeding season (mid-August to March). Only SPAs with puffin as an individual qualifying feature within the UK North Sea and Channel BDMPS region have been subject to non-breeding season apportionment.

Table 5.4 SPA Non-breeding Season Apportioning Results: Puffin

SPA	Non-breeding Season SPA Weighting (%)
Fair Isle SPA	1.4
Forth Islands SPA	26.8
Foula SPA	19.4
Hermaness, Saxavord SPA	20.4
Hoy SPA	0.5
North Caithness Cliffs SPA	0.1
Noss SPA	0.1
Flamborough & Filey SPA	0.8
Coquet Island SPA	10.6
Farne Islands SPA	17.2
Total % Apportioned to SPA Colonies	97.3

Kittiwake

5.2.7 Table 5.5 presents the kittiwake SPA apportioning results for non-breeding seasons, as follows:

- Post-breeding (September to December); and
- Pre-breeding (January to mid-April).

5.2.8 Only SPAs with kittiwake as an individual qualifying feature within the UK North Sea BDMPS region have been subject to non-breeding season apportionment.

Table 5.5 SPA Non-breeding Season Apportioning Results: Kittiwake

SPA	Post-breeding Season SPA Weighting (%)	Pre-breeding Season SPA Weighting (%)
Buchan Ness to Collieston Coast SPA	1.8	2.4
Calf of Eday SPA	0.1	0.1
Cape Wrath SPA	<0.1	<0.1
Copinsay SPA	0.1	0.1
East Caithness Cliffs SPA	5.8	7.7
Fair Isle SPA	0.1	0.2
Farne Islands SPA	0.5	0.7
Flamborough and Filey Coast SPA	5.4	7.2
Forth Islands SPA	0.5	0.6
Foula SPA	<0.1	<0.1
Fowlsheugh SPA	1.4	1.8
Hoy SPA	<0.1	<0.1
Marwick Head SPA	<0.1	0.1
North Caithness Cliffs SPA	1.5	1.9
Noss SPA	<0.1	0.1
Rousay SPA	0.3	0.3
St Abb's Head to Fast Castle SPA	0.5	0.7
Sumburgh Head SPA	<0.1	<0.1
Troup, Pennan & Lion's Heads SPA	2.2	2.9
West Westray SPA	1.7	2.3
Total % Apportioned to SPA Colonies	22.3	29.3

Gannet

5.2.9 Table 5.6 presents the gannet SPA apportioning results for non-breeding seasons, as follows:

- Post-breeding (October to November); and
- Pre-breeding (December to mid-March).

5.2.10 Only SPAs with gannet as an individual qualifying feature within the UK North Sea and Channel BDMPS region have been subject to non-breeding season apportionment.

Table 5.6 SPA Non-breeding Season Apportioning Results: Gannet

SPA	Post-breeding Season SPA Weighting (%)	Pre-breeding Season SPA Weighting (%)
Forth Islands SPA	24.3	31.3
St Kilda SPA	2.6	<0.1
Flamborough & Filey Coast SPA	4.9	6.2
Noss SPA	3.4	5.5
Hermaness, Saxa Vord & Valla Field SPA	8.5	13.7
North Rona & Sula Sgeir SPA	0.4	<0.1
Fair Isle SPA	1.4	2.2
Sule Skerry and Sule Stack SPA	0.2	<0.1
Total % Apportioned to SPA Colonies	45.7	59.0

Great Black-backed Gull

5.2.11 Table 5.7 presents the great black-backed gull SPA apportioning results for non-breeding seasons, as follows:

- Non-breeding (September to February); and
- Pre-breeding (March).

5.2.12 Only SPAs with great black-backed gull as an individual qualifying feature within the UK North Sea BDMPS region have been subject to non-breeding season apportionment.

Table 5.7 SPA Non-breeding Season Apportioning Results: Great Black-backed Gull

SPA	Non-breeding Season SPA Weighting (%)
Calf of Eday SPA	0.6
Copinsay SPA	0.5
East Caithness Cliffs SPA	0.4
Hoy SPA	0.1
Total % Apportioned to SPA Colonies	1.6

Herring Gull

5.2.13 Table 5.8 presents the herring gull SPA apportioning results for non-breeding seasons, as follows:

- Non-breeding (September to February); and
- Pre-breeding (March).

5.2.14 Only SPAs with herring gull as an individual qualifying feature within the UK North Sea BDMPS region have been subject to non-breeding season apportionment.

Table 5.8 SPA Non-breeding Season Apportioning Results: Herring Gull

SPA	Non-breeding Season SPA Weighting (%)
Alde-Ore Estuary SPA	0.3
Buchan Ness to Collieston Coast SPA	1.3
East Caithness Cliffs SPA	1.4
Troup, Pennan and Lion’s Heads SPA	0.7
Flamborough and Filey Coast SPA	0.2
Forth Islands SPA	1.2
Fowlsheugh SPA	0.1
St Abb’s Head to Fast Castle SPA	0.1
Total % Apportioned to SPA Colonies	5.4

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Annex A Full Results

A.1 Full Results

Table 6.1 Kittiwake Full Apportioning Results

SPA Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Auskerry SPA	Auskerry	Yes	0	2016	83.7	199.3	39,707	0.0120	0.000	0.000%
Berwick to Scottish Border	Berwick 4	No	934	2000	45.3	244.0	59,530	0.0221	0.006	0.252%
Berwick to Scottish Border	Berwick 3	No	2120	2000	45.0	247.8	61,407	0.0222	0.013	0.559%
Bigton to Maywick	Griskerry to Taing of Maywick	No	88	2016	94.9	268.4	72,057	0.0105	0.000	0.009%
Bressay	The Ord	No	92	2019	94.6	277.2	76,815	0.0106	0.000	0.009%
Bressay	HU5139 ÔÇô SKUA/GBBG	No	54	1986	94.8	279.2	77,953	0.0105	0.000	0.005%
Brough of Birsay	Brough of Birsay	No	2	2018	82.8	246.0	60,517	0.0121	0.000	0.000%
Buchan Ness to Collieston Coast SPA	Buchan Ness to Collieston	Yes	27094	2023	64.7	106.8	11,407	0.0155	0.615	26.764%
Burghead	Burghead Harbour	No	0	1995	49.3	197.4	38,963	0.0203	0.000	0.000%
Burn of Daff	Black Slough to Burn of Daff	No	606	2017	56.6	139.1	19,344	0.0177	0.009	0.404%
Burn of Daff	Burn of Daff to Newtonhill	No	1580	2017	56.2	140.9	19,846	0.0178	0.024	1.033%
Caithness - Wick Bay to Freshwick Bay	Noss Head	No	90	2018	74.4	187.2	35,056	0.0134	0.001	0.025%
Caithness - Wick Bay to Freshwick Bay	Ackergillshore	No	0	2018	74.1	189.4	35,863	0.0135	0.000	0.000%
Calf of Eday SPA	Eday 1	Yes	0	2018	85.2	224.1	50,239	0.0117	0.000	0.000%
Calf of Eday SPA	Calf of Eday	Yes	286	2018	85.2	224.8	50,540	0.0117	0.001	0.048%
Calf of Eday SPA	Eday 4	Yes	6	2018	85.3	226.0	51,087	0.0117	0.000	0.001%
Calf of Eday SPA	Eday 20	Yes	32	2024	85.2	222.8	49,640	0.0117	0.000	0.006%
Cape Wrath (West)	Cul an Fhraochaidh (west)	No	0	2017	76.5	317.1	100,567	0.0131	0.000	0.000%
Cape Wrath (West)	South of Geodha Cul an Fhraochaidh	No	0	2017	76.5	317.9	101,038	0.0131	0.000	0.000%
Cape Wrath SPA	Clo Mor 1	Yes	0	2017	76.0	302.7	91,615	0.0132	0.000	0.000%
Cape Wrath SPA	Na Glas Leacan	Yes	0	2017	76.3	303.2	91,939	0.0131	0.000	0.000%
Cape Wrath SPA	Clo Mor 2	Yes	0	2017	76.2	303.6	92,146	0.0131	0.000	0.000%
Cape Wrath SPA	Clo Mor 4	Yes	0	2017	76.4	303.9	92,335	0.0131	0.000	0.000%
Cape Wrath SPA	An Garbh-Eilean	Yes	72	2023	76.5	304.3	92,574	0.0131	0.000	0.007%
Cape Wrath SPA	Clo Mor 5	Yes	196	2023	76.5	304.3	92,600	0.0131	0.000	0.020%
Cape Wrath SPA	Clo Mor 7	Yes	1360	2023	76.5	304.9	92,948	0.0131	0.003	0.139%
Cape Wrath SPA	Clo Mor 8	Yes	510	2023	76.4	305.9	93,566	0.0131	0.001	0.052%
Cape Wrath SPA	Clo Mor 9	Yes	2296	2023	76.4	306.9	94,164	0.0131	0.005	0.233%
Cape Wrath SPA	Clo Mor 10	Yes	918	2023	76.5	307.7	94,655	0.0131	0.002	0.092%
Cape Wrath SPA	Clo Mor 11	Yes	654	2023	76.4	309.1	95,516	0.0131	0.002	0.065%
Cape Wrath SPA	Cape Wrath 1	Yes	0	2017	76.6	309.2	95,629	0.0131	0.000	0.000%
Cape Wrath SPA	Cape Wrath 2	Yes	0	2017	76.6	309.8	95,996	0.0130	0.000	0.000%
Cape Wrath SPA	Cape Wrath 3	Yes	24	2023	76.8	310.8	96,580	0.0130	0.000	0.002%
Cape Wrath SPA	Cape Wrath 4	Yes	586	2023	76.9	311.3	96,895	0.0130	0.001	0.057%
Cape Wrath SPA	Stac an Dunain (S&W sides)	Yes	0	2017	77.0	311.6	97,093	0.0130	0.000	0.000%
Cape Wrath SPA	Acairseid Choinnich Oig (south)	Yes	0	2017	76.9	311.7	97,144	0.0130	0.000	0.000%
Cape Wrath SPA	Uamh Cham	Yes	0	2017	76.9	312.7	97,754	0.0130	0.000	0.000%

SPA Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Cape Wrath SPA	North of a'Chailleach am Bodach	Yes	0	2017	76.9	313.3	98,145	0.0130	0.000	0.000%
Cape Wrath SPA	South of a'Chailleach am Bodach	Yes	0	2017	76.9	314.0	98,613	0.0130	0.000	0.000%
Cape Wrath SPA	Clais an Dunain	Yes	0	2017	76.9	314.5	98,895	0.0130	0.000	0.000%
Cape Wrath SPA	Dunan Beag (west coast)	Yes	0	2017	76.7	315.1	99,291	0.0130	0.000	0.000%
Cape Wrath SPA	Dunan Beag (sw coast)	Yes	0	2017	76.7	315.4	99,483	0.0130	0.000	0.000%
Cape Wrath SPA	North of Geodha Ruadh na Fola	Yes	0	2017	76.6	316.3	100,019	0.0131	0.000	0.000%
Cape Wrath SPA	Geodha Ruadh na Fola	Yes	0	2017	76.5	316.6	100,220	0.0131	0.000	0.000%
Cape Wrath SPA	Geodha Cul an Fhraochaidh	Yes	0	2017	76.5	317.3	100,693	0.0131	0.000	0.000%
Cape Wrath SPA	Sandwood Bay - Geodha Ruadh na Fola	Yes	40	2000	76.2	319.8	102,261	0.0131	0.000	0.004%
Carr Craig, Eyebroughy and Haystack	Inchkeith	No	804	2024	32.4	263.5	69,443	0.0308	0.006	0.260%
Carr Craig, Eyebroughy and Haystack	Carr Craig	No	0	2021	30.3	271.3	73,596	0.0330	0.000	0.000%
Carr Craig, Eyebroughy and Haystack	Inchcolm	No	132	2024	30.0	272.4	74,182	0.0333	0.001	0.043%
Carr Craig, Eyebroughy and Haystack	Haystack	No	0	2021	29.8	273.5	74,817	0.0336	0.000	0.000%
Catterline to Inverbervie	The Slainges	No	1934	2017	53.2	155.2	24,076	0.0188	0.025	1.101%
Catterline to Inverbervie	Rouen Bay	No	348	2017	53.0	155.9	24,289	0.0189	0.005	0.197%
Catterline to Inverbervie	Swirl Cove	No	83	2017	52.9	156.3	24,415	0.0189	0.001	0.047%
Catterline to Inverbervie	Whistleberry	No	862	2017	52.9	156.7	24,553	0.0189	0.011	0.484%
Catterline to Inverbervie	Kineff	No	222	2017	52.8	157.4	24,761	0.0190	0.003	0.124%
Catterline to Inverbervie	Little John's Haven	No	12	2017	52.7	157.7	24,870	0.0190	0.000	0.007%
Catterline to Inverbervie	Darn Bay	No	20	2017	52.5	158.5	25,113	0.0190	0.000	0.011%
Catterline to Inverbervie	Yellow Ark	No	244	2017	52.4	158.9	25,240	0.0191	0.003	0.134%
Copinsay SPA	Copinsay	Yes	670	2024	81.9	194.9	38,000	0.0122	0.004	0.157%
Copinsay SPA	Ward Holm	Yes	0	2015	81.9	196.2	38,506	0.0122	0.000	0.000%
Copinsay SPA	Corn Holm	Yes	0	2015	81.9	196.4	38,568	0.0122	0.000	0.000%
Copinsay SPA	Black Holm	Yes	0	2015	82.0	196.9	38,758	0.0122	0.000	0.000%
Coquet Island SPA	Coquet Island RSPB	Yes	694	2024	46.9	287.3	82,529	0.0213	0.003	0.131%
Costa Head	Costa Head	No	46	2021	83.4	239.0	57,107	0.0120	0.000	0.007%
Dale to Huxter	Dale to Huxter	No	1	2021	94.7	302.8	91,712	0.0106	0.000	0.000%
Deerness	Deerness 10	No	10	2019	82.2	198.5	39,417	0.0122	0.000	0.002%
Deerness	Deerness 5	No	0	2018	82.6	201.3	40,504	0.0121	0.000	0.000%
Deerness	Mull Head - cliff-nesters	No	0	2021	82.6	201.6	40,640	0.0121	0.000	0.000%
Deerness	Deerness 3	No	0	2018	82.5	202.5	40,990	0.0121	0.000	0.000%
East Caithness Cliffs SPA	Wick Bay within SPA	Yes	38	2018	72.5	186.9	34,945	0.0138	0.000	0.011%
East Caithness Cliffs SPA	The Brough	Yes	382	2024	72.3	187.1	35,015	0.0138	0.003	0.110%
East Caithness Cliffs SPA	Helman Head	Yes	154	2015	72.1	187.2	35,050	0.0139	0.001	0.044%
East Caithness Cliffs SPA	Ires Geo	Yes	4674	2024	71.8	187.3	35,076	0.0139	0.031	1.353%
East Caithness Cliffs SPA	Corbiegeo	Yes	3650	2024	71.6	187.4	35,102	0.0140	0.024	1.059%
East Caithness Cliffs SPA	Gearty Head	Yes	2	2024	71.2	188.0	35,346	0.0141	0.000	0.001%
East Caithness Cliffs SPA	Stack of Ulbster	Yes	350	2024	70.8	188.8	35,643	0.0141	0.002	0.101%
East Caithness Cliffs SPA	Whaligoe 2	Yes	1230	2024	70.7	189.4	35,855	0.0141	0.008	0.354%
East Caithness Cliffs SPA	Whaligoe 1	Yes	842	2024	70.3	189.9	36,075	0.0142	0.006	0.242%

SPA Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
East Caithness Cliffs SPA	Ness Castle	Yes	2618	2024	70.0	190.7	36,364	0.0143	0.017	0.750%
East Caithness Cliffs SPA	Halberry Head	Yes	1654	2024	69.5	191.2	36,548	0.0144	0.011	0.475%
East Caithness Cliffs SPA	Overton	Yes	188	2024	67.9	191.6	36,726	0.0147	0.001	0.055%
East Caithness Cliffs SPA	Occumster	Yes	36	2024	65.8	194.0	37,631	0.0152	0.000	0.011%
East Caithness Cliffs SPA	Hill Head	Yes	78	2024	65.5	195.3	38,139	0.0153	0.001	0.023%
East Caithness Cliffs SPA	Forse Head	Yes	602	2024	64.4	198.4	39,371	0.0155	0.004	0.173%
East Caithness Cliffs SPA	Cleit Bheag	Yes	564	2024	62.8	202.0	40,789	0.0159	0.004	0.160%
East Caithness Cliffs SPA	Dunbeath Bay	Yes	238	2024	62.4	202.7	41,091	0.0160	0.002	0.068%
East Caithness Cliffs SPA	Sithean Dubh	Yes	888	2024	62.1	203.2	41,300	0.0161	0.006	0.252%
East Caithness Cliffs SPA	Ramsgate	Yes	620	2024	61.9	203.6	41,446	0.0161	0.004	0.176%
East Caithness Cliffs SPA	The Clett	Yes	2724	2024	61.7	204.0	41,602	0.0162	0.018	0.774%
East Caithness Cliffs SPA	Rockhead	Yes	7706	2024	61.3	204.3	41,739	0.0163	0.050	2.193%
East Caithness Cliffs SPA	Screadan	Yes	222	2024	60.0	204.5	41,806	0.0167	0.001	0.064%
East Caithness Cliffs SPA	Ceann Leathad nam Bo 2	Yes	106	2024	59.0	204.5	41,820	0.0169	0.001	0.031%
East Caithness Cliffs SPA	Ceann Leathad nam Bo 1	Yes	10	2015	59.0	204.6	41,851	0.0169	0.000	0.003%
East Caithness Cliffs SPA	Llama Farm	Yes	0	2024	58.9	204.7	41,914	0.0170	0.000	0.000%
East Caithness Cliffs SPA	Berriedale	Yes	210	2024	58.7	205.2	42,092	0.0170	0.001	0.062%
East Caithness Cliffs SPA	Poll Gallon	Yes	532	2024	58.5	205.5	42,211	0.0171	0.004	0.157%
East Caithness Cliffs SPA	Inver Hill	Yes	4036	2024	58.3	205.9	42,380	0.0171	0.027	1.190%
East Caithness Cliffs SPA	Cnoc na Croiche	Yes	90	2024	58.1	206.5	42,651	0.0172	0.001	0.026%
East Caithness Cliffs SPA	Cnoc na Stri 2	Yes	228	2024	57.9	207.0	42,848	0.0173	0.002	0.067%
East Caithness Cliffs SPA	Cnoc na Stri 1	Yes	158	2024	57.7	207.5	43,058	0.0173	0.001	0.046%
East Caithness Cliffs SPA	Creag na Cuinge 2	Yes	204	2024	57.5	208.0	43,268	0.0174	0.001	0.060%
East Caithness Cliffs SPA	Creag na Cuinge 1	Yes	742	2024	57.5	208.2	43,339	0.0174	0.005	0.217%
East Caithness Cliffs SPA	Creag na Cuinge 3	Yes	850	2024	57.5	208.2	43,339	0.0174	0.006	0.249%
East Caithness Cliffs SPA	Creag na Cuinge 4	Yes	58	2015	57.5	208.2	43,339	0.0174	0.000	0.017%
East Caithness Cliffs SPA	Ord of Caithness 2	Yes	138	2024	56.4	210.2	44,183	0.0177	0.001	0.040%
East Caithness Cliffs SPA	Ord of Caithness 1	Yes	0	2015	56.3	210.6	44,331	0.0178	0.000	0.000%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 7	No	276	2018	45.4	237.6	56,446	0.0220	0.002	0.079%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 6	No	316	2018	45.3	237.7	56,505	0.0221	0.002	0.090%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 5	No	228	2018	45.3	237.9	56,611	0.0221	0.001	0.065%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 4	No	124	2018	45.3	238.1	56,706	0.0221	0.001	0.035%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 2	No	342	2018	45.3	238.2	56,751	0.0221	0.002	0.097%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 3	No	12	2018	45.3	238.2	56,759	0.0221	0.000	0.003%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 1	No	120	2018	45.2	238.9	57,056	0.0221	0.001	0.034%
Eynhallow	Eynhallow	No	76	2018	83.5	233.5	54,505	0.0120	0.000	0.012%
Fair Isle SPA	Fair Isle	Yes	896	2021	90.7	218.0	47,517	0.0110	0.003	0.151%
Faraid Head/ Balnakeil	Faraid Head 4	No	232	2021	75.4	298.4	89,029	0.0133	0.001	0.025%
Faraid Head/ Balnakeil	Faraid Head 3	No	364	2021	75.5	298.6	89,166	0.0133	0.001	0.039%
Faraid Head/ Balnakeil	Faraid Head 2	No	60	2019	75.5	299.2	89,511	0.0132	0.000	0.006%
Farne Islands SPA	Farne Islands	Yes	5790	2024	48.5	255.5	65,279	0.0206	0.031	1.332%

SPA Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Findon Ness - Hare Ness	Hare Ness to Seal's Cove	No	1624	2017	57.4	135.4	18,342	0.0174	0.026	1.124%
Findon Ness - Hare Ness	Seal's Cove to Findon Ness	No	570	2017	57.2	136.4	18,618	0.0175	0.009	0.390%
Findon Ness - Hare Ness	Findon Ness to Black Slough	No	160	2017	57.0	137.2	18,832	0.0175	0.002	0.109%
Firth of Forth SPA	Dunbar Coast	Yes	2310	2007	41.0	241.7	58,428	0.0244	0.016	0.702%
Fishtown of Usan to River North Esk	Fishtown of Usan	No	0	2018	47.8	180.0	32,412	0.0209	0.000	0.000%
Fitful	Siggar Ness	No	132	2012	94.2	254.9	64,961	0.0106	0.000	0.016%
Forth Islands SPA	Isle of May	Yes	10886	2024	42.5	226.5	51,280	0.0236	0.084	3.644%
Forth Islands SPA	Bass Rock	Yes	1346	2024	40.2	239.6	57,423	0.0249	0.010	0.424%
Forth Islands SPA	Craigleith	Yes	1320	2024	39.1	243.0	59,042	0.0256	0.010	0.417%
Forth Islands SPA	The Lamb	Yes	0	2024	38.7	244.2	59,625	0.0258	0.000	0.000%
Forth Islands SPA	Fidra	Yes	664	2024	38.3	245.2	60,131	0.0261	0.005	0.210%
Forth Islands SPA	Eyebroughy	Yes	0	2019	37.9	246.9	60,980	0.0264	0.000	0.000%
Foula SPA	Foula	Yes	1021	2021	94.4	291.4	84,939	0.0106	0.002	0.093%
Fowlsheugh SPA	Tremuda/Old Hall Bay	Yes	1536	2018	54.1	150.4	22,630	0.0185	0.021	0.914%
Fowlsheugh SPA	Thornyhive Bay	Yes	3342	2018	54.0	150.8	22,755	0.0185	0.046	1.982%
Fowlsheugh SPA	Fowlsheugh RSPB	Yes	30966	2023	53.9	151.7	23,012	0.0186	0.418	18.199%
Fowlsheugh SPA	Swallow Cove - Crawton	Yes	4312	2018	53.6	152.9	23,375	0.0186	0.058	2.506%
Fraserburgh	Fraserburgh Harbour	No	162	2021	67.9	107.8	11,628	0.0147	0.003	0.150%
Girdle Ness to Hare Ness	Greg Ness - Seals Hole	No	782	2017	58.3	131.4	17,261	0.0171	0.013	0.566%
Girdle Ness to Hare Ness	Burnbanks	No	0	2017	58.0	132.4	17,536	0.0172	0.000	0.000%
Girdle Ness to Hare Ness	Cove Bay	No	2646	2017	57.9	133.2	17,749	0.0173	0.043	1.877%
Girdle Ness to Hare Ness	Cove to Hare Ness	No	722	2017	57.7	134.2	18,017	0.0173	0.012	0.506%
Green Holms	Muckle Green Holm	No	64	2018	83.9	217.4	47,263	0.0119	0.000	0.012%
Hall Bay to Craigeven Bay	Perthumie Bay 1	No	158	2017	55.2	145.3	21,121	0.0181	0.002	0.099%
Holm	Gultak	No	22	2021	81.5	200.8	40,323	0.0123	0.000	0.005%
Holm, Deerness and Tankerness	Rerwick Head 2	No	0	N/A	82.4	206.6	42,667	0.0121	0.000	0.000%
Hopeman Bay	Covesea	No	1398	2023	51.0	190.2	36,184	0.0196	0.013	0.552%
Horse Island, Colsay, Little and Ladies Holm to Fitful Head	Horse Island (HU30)	No	43	2021	94.1	249.7	62,337	0.0106	0.000	0.005%
Horse of Copinsay	Horse of Copinsay	No	314	2023	82.0	194.9	38,003	0.0122	0.002	0.073%
Howick - Cullornose Point - Dunstanburgh Castle Point	Dunstanburgh Castle	No	628	2024	47.5	270.9	73,361	0.0210	0.003	0.131%
Howick - Cullornose Point - Dunstanburgh Castle Point	Cullernose Point	No	320	2019	47.3	274.0	75,066	0.0211	0.002	0.066%
Howick - Cullornose Point - Dunstanburgh Castle Point	Howick	No	1280	2019	47.3	274.6	75,395	0.0212	0.006	0.262%
Hoy and Southwalls	HOY22	No	66	2019	79.7	210.5	44,327	0.0126	0.000	0.014%
Hoy SPA	HOY17	Yes	456	2016	79.1	217.8	47,432	0.0126	0.002	0.089%
Hoy SPA	HOY16	Yes	0	2016	79.4	220.0	48,417	0.0126	0.000	0.000%
Hoy SPA	HOY11	Yes	0	2017	80.0	227.7	51,834	0.0125	0.000	0.000%
Hoy SPA	Old Man of Hoy to Rora Head	Yes	58	2017	80.1	230.8	53,264	0.0125	0.000	0.010%
Hoy SPA	Hoy RSPB Reserve	Yes	76	2017	80.1	231.2	53,435	0.0125	0.000	0.013%
Hoy SPA	HOY6	Yes	0	2017	80.8	232.6	54,100	0.0124	0.000	0.000%
Hoy SPA	HOY8	Yes	18	2017	80.4	232.8	54,175	0.0124	0.000	0.003%
Huxter to Brindister	Neap of Norby to The Kamer	No	38	2021	96.7	308.6	95,264	0.0103	0.000	0.003%

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Huxter to Brindister	The Kamer to Bay of Garth	No	8	2021	94.6	309.8	95,996	0.0106	0.000	0.001%
Huxter to Brindister	Brough Skerries to Corn Head	No	1	2021	94.4	311.1	96,807	0.0106	0.000	0.000%
Huxter to Brindister	Staraster to Shaabers Head	No	42	2017	95.8	315.2	99,366	0.0104	0.000	0.003%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 8	No	0	2018	46.8	185.7	34,473	0.0214	0.000	0.000%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 7	No	0	2018	46.7	186.6	34,801	0.0214	0.000	0.000%
Lunan Bay to Arbroath	Auchmithie	No	7	2018	46.2	189.0	35,716	0.0216	0.000	0.000%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 5	No	0	2018	46.1	189.7	36,005	0.0217	0.000	0.000%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 4	No	864	2018	46.0	190.3	36,195	0.0218	0.009	0.378%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 1	No	204	2018	45.5	192.8	37,158	0.0220	0.002	0.088%
Mainland west: Terns	Vaila	No	0	N/A	93.4	293.2	85,943	0.0107	0.000	0.000%
Marwick Head SPA	Marwick Head	Yes	2878	2023	82.4	248.9	61,961	0.0121	0.009	0.411%
Maywick to Scalloway	South Havra	No	10	2016	95.2	271.8	73,894	0.0105	0.000	0.001%
Maywick to St. Ninians Isle	Ness of Ireland	No	84	2014	95.0	267.3	71,435	0.0105	0.000	0.009%
Montrose to Lunan Bay	Buckiemill	No	740	2017	47.1	183.1	33,515	0.0212	0.008	0.342%
Mousa SPA	Mousa RSPB	Yes	0	2015	95.3	265.0	70,219	0.0105	0.000	0.000%
Muckle Roe	Muckle Roe (cliff nesters)	No	0	2016	97.2	326.0	106,271	0.0103	0.000	0.000%
Newton Hill	Doonie Point to Hall Bay	No	4	2017	55.4	144.4	20,859	0.0181	0.000	0.003%
Newtonhill - Hall Bay	Newtonhill - May Craig	No	596	2017	56.0	141.9	20,141	0.0179	0.009	0.385%
Newtonhill - Hall Bay	May Craig - Muchalls	No	468	1999	55.8	142.6	20,331	0.0179	0.007	0.300%
No Ness to Levenwick and Boddam to Virkie	Troswick Beach to Boddam	No	42	2021	94.5	258.1	66,640	0.0106	0.000	0.005%
No Ness to Levenwick and Boddam to Virkie	Troswick Ness	No	40	2021	94.6	259.4	67,291	0.0106	0.000	0.005%
No Ness to Levenwick and Boddam to Virkie	Noness	No	76	2021	95.2	263.7	69,539	0.0105	0.000	0.008%
North Caithness Cliffs SPA	Dunnet Head 2	Yes	146	2023	77.6	215.3	46,348	0.0129	0.001	0.030%
North Caithness Cliffs SPA	Dunnet Head 3	Yes	6826	2024	77.4	216.6	46,912	0.0129	0.032	1.371%
North Caithness Cliffs SPA	Auckengill within SPA	Yes	0	2015	77.0	192.5	37,054	0.0130	0.000	0.000%
North Caithness Cliffs SPA	Skirza Head	Yes	1138	2024	77.6	192.7	37,128	0.0129	0.007	0.288%
North Caithness Cliffs SPA	Stacks of Duncansby	Yes	564	2023	76.2	193.8	37,551	0.0131	0.003	0.144%
North Caithness Cliffs SPA	Duncansby Head	Yes	1176	2024	77.9	194.9	37,979	0.0128	0.007	0.289%
North Caithness Cliffs SPA	Little Clett	Yes	10	2016	77.6	213.7	45,689	0.0129	0.000	0.002%
North Caithness Cliffs SPA	Holburn Head 2	Yes	74	2024	75.8	228.0	51,977	0.0132	0.000	0.014%
North Caithness Cliffs SPA	Holburn Head 3	Yes	2	2024	75.7	228.9	52,392	0.0132	0.000	0.000%
North Caithness Cliffs SPA	Sandside Head 1	Yes	3168	2024	74.4	244.7	59,877	0.0134	0.012	0.518%
North Caithness Cliffs SPA	Sandside Head 2	Yes	1024	2024	74.3	245.8	60,439	0.0135	0.004	0.166%
North Caithness Cliffs SPA	Melvich 1	Yes	510	2024	74.1	246.7	60,853	0.0135	0.002	0.082%
North Caithness Cliffs SPA	Melvich 2	Yes	178	2023	73.9	247.5	61,245	0.0135	0.001	0.029%
North Caithness Cliffs SPA	Melvich 3	Yes	3644	2023	73.8	248.4	61,714	0.0135	0.013	0.583%
North Caithness Cliffs SPA	Stroma Island	Yes	148	2023	78.4	201.3	40,529	0.0128	0.001	0.034%
North Mainland 22 - Black Hill to Boat Geo South	HU 3165 - SKUA/GBBG	No	0	2021	94.4	322.1	103,752	0.0106	0.000	0.000%
North Sutherland Islands	Neave Island 1	No	0	2021	73.4	272.9	74,451	0.0136	0.000	0.000%
North Sutherland Islands	Eilean nan Ron whole island	No	0	2021	73.6	275.3	75,809	0.0136	0.000	0.000%
North Sutherland Islands	Eilean Iosal	No	141	2021	74.1	275.9	76,134	0.0135	0.000	0.000%

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North Sutherland Islands	Eilean Nan Ron 6	No	300	1987	73.9	276.1	76,238	0.0135	0.001	0.039%
North Sutor to Shandwick	North Sutor Of Cromarty/Castlecraig	No	904	2023	40.2	225.5	50,853	0.0249	0.007	0.322%
Noss SPA	Noss	Yes	154	2024	95.5	281.0	78,957	0.0105	0.000	0.015%
Out Skerries	North Benelip	No	48	1986	97.1	305.9	93,569	0.0103	0.000	0.004%
Out Skerries	Housay	No	0	2021	97.3	307.4	94,489	0.0103	0.000	0.000%
Papa Stour SPA	Papa Stour Whole Island	Yes	50	2021	96.6	308.6	95,242	0.0104	0.000	0.004%
Papa Westray (North Hill and Holm) SPA	North Hill RSPB, Papa Westray	Yes	0	2024	86.2	244.5	59,791	0.0116	0.000	0.000%
Pentland Firth Islands SPA	Muckle Skerry	Yes	352	2021	78.9	192.9	37,197	0.0127	0.002	0.087%
Pentland Firth Islands SPA	Swona	Yes	2	2021	79.2	202.8	41,140	0.0126	0.000	0.000%
Peterhead	Peterhead South Harbour (urban)	No	66	2021	67.3	99.7	9,940	0.0149	0.002	0.072%
Portknockie	Portknockie	No	62	2018	58.1	158.3	25,056	0.0172	0.001	0.031%
Portsoy to Cullen	Redhythe Point	No	440	2017	59.4	151.8	23,039	0.0168	0.005	0.234%
Portsoy to Cullen	Garron Point	No	434	2017	59.1	152.9	23,393	0.0169	0.005	0.229%
Portsoy to Cullen	Findlater	No	158	2017	59.0	153.9	23,671	0.0169	0.002	0.082%
Reawick	Reawick Ness	No	0	2016	96.2	287.3	82,543	0.0104	0.000	0.000%
River Tyne to Seaton Sluice	Tynemouth	No	492	2015	45.6	320.3	102,568	0.0219	0.002	0.077%
Rosehearty to Bay of Cullen	Rosehearty	No	0	2017	66.4	116.4	13,551	0.0150	0.000	0.000%
Rosehearty to Bay of Cullen	Snow Craig	No	50	2017	63.1	131.4	17,276	0.0158	0.001	0.033%
Rosehearty to Bay of Cullen	Stocked Head	No	0	2017	62.8	133.1	17,725	0.0159	0.000	0.000%
Rosehearty to Bay of Cullen	Head of Garness	No	6	2017	62.7	134.2	17,998	0.0160	0.000	0.004%
Rosehearty to Bay of Cullen	Bay of Cullen	No	0	2017	62.5	135.9	18,463	0.0160	0.000	0.000%
Rousay - South East	Trumland RSPB	No	254	2018	83.4	228.2	52,062	0.0120	0.001	0.043%
Rousay SPA	Rousay 12	Yes	60	2016	84.0	229.5	52,682	0.0119	0.000	0.010%
Rousay SPA	Rousay 11	Yes	108	2016	84.0	230.8	53,273	0.0119	0.000	0.018%
Rousay SPA	Rousay 8	Yes	12	2016	84.1	232.8	54,197	0.0119	0.000	0.002%
Rousay SPA	Rousay 7	Yes	12	2016	84.1	233.5	54,510	0.0119	0.000	0.002%
Rousay SPA	Rousay 6	Yes	0	2016	84.0	234.5	54,990	0.0119	0.000	0.000%
Rousay SPA	Rousay 1 - RSPB	Yes	464	2016	83.6	235.1	55,282	0.0120	0.002	0.073%
Rousay SPA	Rousay 2	Yes	0	2016	83.7	235.4	55,404	0.0119	0.000	0.000%
Rousay SPA	Rousay 5	Yes	0	2016	84.0	235.8	55,594	0.0119	0.000	0.000%
Rousay SPA	Rousay 4	Yes	306	2016	83.9	237.1	56,215	0.0119	0.001	0.047%
Sanday	Sanday 6	No	0	2017	85.5	226.5	51,296	0.0117	0.000	0.000%
Sanday - Stove to Kettletoft	Starrie Geo	No	102	2017	84.9	217.7	47,397	0.0118	0.000	0.018%
Scapa Bay to St. Marys	Holm 4	No	46	2021	81.4	211.7	44,832	0.0123	0.000	0.009%
Seahouses	Seahouses 1	No	412	2019	47.8	261.4	68,320	0.0209	0.002	0.092%
Shapinsay (Coastal)	Shapinsay 9	No	8	2016	82.8	209.7	43,962	0.0121	0.000	0.002%
Shapinsay (Coastal)	Shapinsay 7	No	0	2021	82.7	210.0	44,084	0.0121	0.000	0.000%
Shapinsay (Coastal)	Shapinsay 8	No	26	2021	82.7	210.0	44,099	0.0121	0.000	0.005%
Skeld, Westerwick and Culswick	Scarvister to West Mouli Geo	No	26	2016	94.0	285.6	81,563	0.0106	0.000	0.002%
Skeld, Westerwick and Culswick	Giltarump Stack	No	0	2016	95.8	286.7	82,211	0.0104	0.000	0.000%
Skeld, Westerwick and Culswick	Westerwick to West of The Nev	No	100	2016	95.0	287.1	82,410	0.0105	0.000	0.009%

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Skeld, Westerwick and Culswick	West Of The Nev - Stead Of Culswick	No	54	2016	95.1	288.2	83,084	0.0105	0.000	0.005%
Skeld, Westerwick and Culswick	Burga Stacks to Caves	No	2	2016	95.4	289.5	83,782	0.0105	0.000	0.000%
Skeld, Westerwick and Culswick	Broch of Culswick to Seli Stack	No	0	2016	93.0	291.1	84,725	0.0108	0.000	0.000%
Skeld, Westerwick and Culswick	Skeld, Westerwick and Culswick	No	30	2016	95.4	296.1	87,691	0.0105	0.000	0.003%
Skye	An Dubh Sgeir	No	0	N/A	74.7	293.0	85,854	0.0134	0.000	0.000%
Smoo to Melvich	Strathy 2	No	0	2019	74.0	256.6	65,851	0.0135	0.000	0.000%
Smoo to Melvich	Armadale 2	No	0	2019	74.1	263.6	69,486	0.0135	0.000	0.000%
Smoo to Melvich	Rubha Thormaid	No	50	2019	74.8	283.9	80,586	0.0134	0.000	0.000%
Smoo to Melvich	Geodha nan Aigheann	No	0	2021	75.1	284.9	81,161	0.0133	0.000	0.000%
Smoo to Melvich	Cleit An t-Seabhaig	No	50	2,019	74.9	286.8	82,275	0.0133	0.000	0.000%
Smoo to Melvich	Mol Mhor	No	0	2019	74.5	290.1	84,142	0.0134	0.000	0.000%
South Ronaldsay	Windwick - Burwick	No	32	2016	79.5	199.7	39,869	0.0126	0.000	0.007%
South Ronaldsay	Burwick - Sandwick	No	0	2016	79.3	202.9	41,168	0.0126	0.000	0.000%
South Ronaldsay	The Altar - Quindry	No	68	2021	80.0	209.5	43,878	0.0125	0.000	0.014%
South Ronaldsay	Quindry - Hoxa - Dam of Hoxa	No	2	2021	79.7	209.7	43,977	0.0125	0.000	0.000%
South Sutor	South Sutor 3	No	132	2015	39.6	227.1	51,554	0.0252	0.001	0.047%
South Sutor	South Sutor All (2-6)	No	0	2023	39.1	228.6	52,268	0.0256	0.000	0.000%
St Abb's Head to Fast Castle SPA	Broadhaven to Moorburn Point	Yes	886	2024	44.7	236.3	55,824	0.0224	0.006	0.259%
St Abb's Head to Fast Castle SPA	St Abb's Head NNR	Yes	10842	2024	45.0	236.5	55,930	0.0222	0.072	3.140%
St Abb's Head to Fast Castle SPA	Moorburn Point to Fast Castle	Yes	264	2024	44.4	236.8	56,091	0.0225	0.002	0.077%
St Abb's Head to Fast Castle SPA	Fast Castle Head	Yes	0	2024	43.8	238.3	56,771	0.0228	0.000	0.000%
St Abbs to Eyemouth	St Abbs to Eyemouth 1	No	0	2018	45.0	236.4	55,907	0.0222	0.000	0.000%
St. Ninian's Isle	Hich Holm	No	56	2017	94.8	264.6	70,011	0.0106	0.000	0.006%
St. Ninian's Isle	St. Ninian's Isle	No	78	2018	94.8	264.8	70,124	0.0105	0.000	0.009%
Stonehaven to Wine Cove	Strathlethan Bay	No	148	2021	54.3	149.2	22,275	0.0184	0.002	0.089%
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	No	534	2018	54.2	149.6	22,392	0.0184	0.007	0.320%
Stronsay	Burgh Head 1	No	21	2018	84.2	203.1	41,258	0.0119	0.000	0.000%
Stronsay	Carlin Geo 1	No	188	2018	84.0	203.1	41,261	0.0119	0.000	0.000%
Stronsay	Rothiesholm Head 2	No	98	2019	84.1	208.0	43,265	0.0119	0.000	0.020%
Sule Skerry and Sule Stack SPA	Sule Skerry	Yes	332	2024	82.2	289.4	83,741	0.0122	0.001	0.035%
Sule Skerry and Sule Stack SPA	Sule Stack	Yes	102	1998	81.5	290.6	84,445	0.0123	0.000	0.011%
Sumburgh Head Quarries	Compass Head	No	70	2019	94.3	251.4	63,202	0.0106	0.000	0.009%
Sumburgh Head SPA	Sumburgh Head	Yes	254	2023	94.2	250.2	62,601	0.0106	0.001	0.031%
Sumburgh Head SPA	Geo of Parks to Jarlshof	Yes	294	2021	94.3	250.9	62,937	0.0106	0.001	0.036%
Sumburgh Head SPA	Grutness Pier to Greystane Geo	Yes	141	2021	94.3	250.9	62,963	0.0106	0.000	0.017%
Sumburgh Head SPA	Sandwick to Virkie: Boddam to Virkie within SPA	Yes	2	2018	94.4	253.7	64,340	0.0106	0.000	0.000%
Sumburgh to Peerie Voe of Spiggie	Burn of Garth to Broad Stack	No	0	2021	94.3	254.8	64,927	0.0106	0.000	0.000%
Sumburgh to Peerie Voe of Spiggie	Broad Stack to Stack of Barons Geo	No	113	2021	94.3	255.0	65,012	0.0106	0.000	0.013%
Sumburgh to Peerie Voe of Spiggie	The Nev to The Kame	No	28	1999	94.4	258.3	66,709	0.0106	0.000	0.003%
Sumburgh to Peerie Voe of Spiggie	Landvillas to Scarfi Taing	No	282	1999	94.4	259.8	67,476	0.0106	0.001	0.032%
Sumburgh to Peerie Voe of Spiggie	Corbie Geo to Whale Stack	No	2	2016	94.5	261.0	68,103	0.0106	0.000	0.000%

SPA Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Switha	Switha (Whole Island)	No	0	2019	79.6	208.7	43,539	0.0126	0.000	0.000%
Troup, Pennan and Lion's Heads SPA	West Quarry Head	Yes	2	2017	65.5	119.2	14,218	0.0153	0.000	0.002%
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	Yes	4786	2017	65.4	121.0	14,632	0.0153	0.084	3.644%
Troup, Pennan and Lion's Heads SPA	Pennan Head	Yes	1110	2017	65.1	122.6	15,030	0.0154	0.019	0.827%
Troup, Pennan and Lion's Heads SPA	Troup & Lion's Head RSPB (Coast & Reserve)	Yes	898	2024	64.7	125.2	15,676	0.0155	0.015	0.646%
Troup, Pennan and Lion's Heads SPA	Crovie to Collie Head	Yes	1516	2017	64.3	127.4	16,237	0.0156	0.024	1.058%
Troup, Pennan and Lion's Heads SPA	More Head-Crovie Pier (+Craigandargity skerry)	Yes	224	2017	63.6	128.8	16,584	0.0157	0.004	0.155%
Vementry Region	Vementry	No	0	2017	95.4	320.2	102,512	0.0105	0.000	0.000%
Walls to Dales	Point of Hus to Hevdigarth	No	20	2016	93.8	295.3	87,191	0.0107	0.000	0.002%
Walls to Dales	Dogs Head to Treawick	No	16	2019	94.3	298.0	88,798	0.0106	0.000	0.001%
Walls to Dales	Treawick to Burrier Head	No	3	2019	94.4	298.3	88,956	0.0106	0.000	0.000%
West Burra - Shetland	Kettlaness (KI & SA only)	No	72	2014	93.4	273.9	75,001	0.0107	0.000	0.007%
West Burra - Shetland	Bannaminn to Whale Wick	No	0	2016	93.5	275.6	75,982	0.0107	0.000	0.000%
West Burra - Shetland	West Burra	No	130	2014	93.3	276.3	76,358	0.0107	0.000	0.013%
West Burra - Shetland	Whale Wick to Sandwick (incl. Ramna Geo)	No	58	2016	93.2	276.7	76,560	0.0107	0.000	0.006%
West Westray SPA	West Westray 6	Yes	852	2017	85.2	238.1	56,674	0.0117	0.003	0.129%
West Westray SPA	West Westray 5	Yes	990	2017	85.3	239.7	57,476	0.0117	0.003	0.147%
West Westray SPA	West Westray 4	Yes	3166	1999	85.4	241.0	58,073	0.0117	0.011	0.465%
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	Yes	2972	2023	85.5	242.8	58,959	0.0117	0.010	0.430%
West Westray SPA	West Westray 1	Yes	24	2017	85.5	243.7	59,406	0.0117	0.000	0.003%
Westray	Westray 10	No	758	2002	84.8	231.9	53,783	0.0118	0.003	0.121%
Whalsay	Meo Ness to the Haa	No	64	2001	97.5	299.3	89,607	0.0103	0.000	0.005%
Yesnaby - Ness Point, Stromness	Grid Square HY2112	No	12	2021	81.5	235.3	55,346	0.0123	0.000	0.002%
Yesnaby to Marwick (West Mainland)	Grid Square HY2216	No	0	2018	81.9	240.3	57,748	0.0122	0.000	0.000%
Yesnaby to Marwick (West Mainland)	Grid Square HY2217	No	0	2018	82.2	240.5	57,827	0.0122	0.000	0.000%
Yesnaby to Marwick (West Mainland)	Row Head	No	2	2018	82.2	242.2	58,659	0.0122	0.000	0.000%
Yesnaby to Marwick (West Mainland)	Grid Square HY2318	No	0	2019	82.2	243.0	59,039	0.0122	0.000	0.000%
Yesnaby to Marwick (West Mainland)	Grid Square HY2319	No	0	2018	82.3	243.0	59,042	0.0121	0.000	0.000%
Yesnaby to Marwick (West Mainland)	Grid Square HY2219	No	0	2018	82.3	243.0	59,071	0.0122	0.000	0.000%
Ythan Estuary, Sands of Forvie and Meikle Loch SPA	Sands of Forvie	Yes	946	2024	62.4	113.6	12,916	0.0160	0.020	0.855%
Total			224863		22,527.5	72,051.0	17,495,787	4.6542	2.299	100.000%

Table 6.2 Guillemot Full Apportioning Results

SMP Master Site	SMP Site	SPA	Count (IND)	Corrected count (IND)	Count year	At sea foraging area %	Distance to Array Area (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Buchan Ness to Collieston Coast SPA	Buchan Ness to Collieston	Yes	30,420	40,763	2023	66.7	106.8	11,406.7	0.0150	1.0000	100.000%
Total						67.7	106.8	11,406.7	0.0150	1.0000	100.000%

Table 6.3 Razorbill Full Apportioning Results

SMP Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre around Coast (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Buchan Ness to Collieston Coast SPA	Buchan Ness to Collieston	Yes	5,715	2023	69.8	106.8	12,915.6	0.0153	0.5458	0.518%
Ythan Estuary, Sands of Forvie and Meikle Loch SPA	Sands of Forvie	Yes	63	2024	65.2	113.6	14,218.4	0.0155	0.0057	0.023%
Troup, Pennan and Lion's Heads SPA	West Quarry Head	Yes	3	2017	64.7	119.2	14,631.8	0.0157	0.0002	2.816%
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	Yes	379	2017	63.7	121.0	15,030.0	0.0160	0.0309	3.252%
Troup, Pennan and Lion's Heads SPA	Pennan Head	Yes	442	2017	62.6	122.6	15,675.8	0.0163	0.0357	34.561%
Troup, Pennan and Lion's Heads SPA	Troup & Lion's Head RSPB (Coast & Reserve)	Yes	4,812	2023	61.5	125.2	16,236.6	0.0166	0.3796	5.947%
Troup, Pennan and Lion's Heads SPA	Crovie to Collie Head	Yes	839	2017	60.2	127.4	16,584.0	0.0170	0.0653	0.659%
Troup, Pennan and Lion's Heads SPA	More Head-Crovie Pier (+Craigandargity skerry)	Yes	93	2017	59.0	128.8	17,261.2	0.0166	0.0072	0.007%
Girdle Ness to Hare Ness	Greg Ness - Seals Hole	No	1	2017	60.2	131.4	17,275.7	0.0175	0.0001	0.000%
Rosehearty to Bay of Cullen	Snow Craig	No	0	2017	57.2	131.4	17,725.5	0.0178	0.0000	0.000%
Rosehearty to Bay of Cullen	Stocked Head	No	0	2017	56.1	133.1	17,748.9	0.0168	0.0000	0.950%
Girdle Ness to Hare Ness	Cove Bay	No	145	2017	59.6	133.2	17,997.6	0.0180	0.0104	0.560%
Rosehearty to Bay of Cullen	Head of Garness	No	81	2017	55.6	134.2	18,463.4	0.0183	0.0062	0.000%
Rosehearty to Bay of Cullen	Bay of Cullen	No	0	2017	54.8	135.9	16,486.6	0.0160	0.0000	1.017%
Girdle Ness to Hare Ness	Cove to Hare Ness	No	151	2017	62.4	128.4	16,486.6	0.0160	0.0112	1.017%
Total			**12,724**		**912.618533**	**1892.27**	**239657.7714**	**0.2476**	**1.0984**	**100.000%**

Table 6.4 Puffin Full Apportioning Results

SMP Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre around Coast (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Auskerry SPA	Auskerry	Yes	656	2016	83.6	199.3	39,706.9	0.0120	0.0000	0.191%
Bigton to Maywick	Griskerry to Taing of Maywick	No	110	2016	96.5	268.4	72,056.8	0.0104	0.0000	0.02%
Birsay Cliffs - Point of Buckquoy to Loop of Cruie	Whitaloo Point to Loop of Cruie	No	35	2021	82.9	242.8	58,938.7	0.0121	0.0000	0.01%
Birsay Cliffs - Point of Buckquoy to Loop of Cruie	Skipi Geo to Whitaloo Point	No	3	2021	82.8	243.9	59,511.1	0.0121	0.0000	0.00%
Bressay	Bard Head	No	0	2019	95.8	275.6	75,978.5	0.0104	0.0000	0.00%
Bressay	Geos of the Veng	No	1	2019	95.8	275.9	76,128.0	0.0104	0.0000	0.00%
Bressay	Laigh Mills	No	0	2019	97.4	276.0	76,179.9	0.0103	0.0000	0.00%
Bressay	The Ord	No	0	2019	95.5	277.2	76,815.4	0.0105	0.0000	0.00%
Brough of Birsay	Brough of Birsay	No	5	2017	82.5	246.0	60,517.5	0.0121	0.0000	0.00%
Buchan Ness to Collieston Coast SPA	Buchan Ness to Collieston	Yes	56	2023	64.8	106.8	11,406.7	0.0154	0.0000	0.073%
Burn of Daff	Black Slough to Burn of Daff	No	7	2017	56.5	139.1	19,343.8	0.0177	0.0000	0.01%
Burn of Daff	Burn of Daff to Newtonhill	No	0	2017	56.1	140.9	19,845.8	0.0178	0.0000	0.00%
Caithness - Wick Bay to Freshwick Bay	Noss Head	No	3	2018	72.6	187.2	35,056.2	0.0138	0.0000	0.00%
Caithness - Wick Bay to Freshwick Bay	Ackergillshore	No	0	2018	72.2	189.4	35,863.3	0.0138	0.0000	0.00%
Calf of Eday SPA	Eday 20	Yes	6	2018	85.3	222.8	49,639.4	0.0117	0.0000	0.001%
Calf of Eday SPA	Calf of Eday	Yes	1	2018	85.6	224.8	50,540.0	0.0117	0.0000	0.000%
Calf of Eday SPA	Eday 4	Yes	1	2018	85.7	226.0	51,087.3	0.0117	0.0000	0.000%
Calf of Eday SPA	Eday 5	Yes	39	2018	85.6	227.0	51,524.9	0.0117	0.0000	0.009%
Calf of Eday SPA	Eday 6	Yes	1	2018	85.6	227.9	51,922.0	0.0117	0.0000	0.000%
Carr Craig, Eyebroughy and Haystack	Inchkeith	No	3,778	2022	30.4	263.5	69,443.3	0.0329	0.0001	1.73%
Carr Craig, Eyebroughy and Haystack	Carr Craig	No	0	2021	28.1	271.3	73,595.6	0.0356	0.0000	0.00%
Carr Craig, Eyebroughy and Haystack	Inchcolm	No	22	2022	27.8	272.4	74,181.6	0.0360	0.0000	0.01%
Carr Craig, Eyebroughy and Haystack	Haystack	No	0	2021	27.5	273.5	74,817.0	0.0363	0.0000	0.00%
Catterline to Inverbervie	The Slainges	No	5	2017	53.4	155.2	24,076.5	0.0187	0.0000	0.00%
Catterline to Inverbervie	Rouen Bay	No	2	2017	53.2	155.9	24,289.2	0.0188	0.0000	0.00%
Catterline to Inverbervie	Swirl Cove	No	0	2017	53.1	156.3	24,414.7	0.0188	0.0000	0.00%
Catterline to Inverbervie	Whistleberry	No	3	2017	53.0	156.7	24,553.3	0.0189	0.0000	0.00%
Catterline to Inverbervie	Kineff	No	0	2017	53.0	157.4	24,760.6	0.0189	0.0000	0.00%
Catterline to Inverbervie	Little John's Haven	No	0	2017	52.9	157.7	24,870.2	0.0189	0.0000	0.00%
Catterline to Inverbervie	Darn Bay	No	0	2017	52.7	158.5	25,112.7	0.0190	0.0000	0.00%
Catterline to Inverbervie	Yellow Ark	No	0	2017	52.6	158.9	25,240.0	0.0190	0.0000	0.00%
Copinsay SPA	Copinsay	Yes	644	2024	81.5	194.9	38,000.0	0.0123	0.0000	0.201%
Copinsay SPA	Ward Holm	Yes	210	2015	81.4	196.2	38,505.8	0.0123	0.0000	0.065%
Copinsay SPA	Corn Holm	Yes	181	2023	81.5	196.4	38,567.9	0.0123	0.0000	0.056%
Copinsay SPA	Black Holm	Yes	67	2015	81.5	196.9	38,758.2	0.0123	0.0000	0.020%
Costa Head	Costa Hill Cliffs	No	8	2018	83.3	237.8	56,562.2	0.0120	0.0000	0.00%

SMP Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre around Coast (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Costa Head	Costa Head	No	19	2018	83.2	239.0	57,106.7	0.0120	0.0000	0.00%
Cunningsburgh to Sandwick	Bay of Okraquoy to Blosta	No	0	2018	94.4	272.0	73,999.2	0.0106	0.0000	0.00%
Deerness	Mull Head - cliff-nesters	No	2	2018	82.3	201.6	40,640.1	0.0121	0.0000	0.00%
Deerness	Deerness 3	No	0	2016	82.2	202.5	40,989.6	0.0122	0.0000	0.00%
East Caithness Cliffs SPA	The Brough	Yes	2	2015	70.6	187.1	35,014.6	0.0142	0.0000	0.001%
East Caithness Cliffs SPA	Helman Head	Yes	1	2015	70.3	187.2	35,049.8	0.0142	0.0000	0.000%
East Caithness Cliffs SPA	Ires Geo	Yes	13	2024	69.9	187.3	35,075.7	0.0143	0.0000	0.005%
East Caithness Cliffs SPA	Corbiegeo	Yes	1	2024	69.7	187.4	35,101.9	0.0143	0.0000	0.000%
East Caithness Cliffs SPA	Sarclet Head	Yes	4	2015	69.4	187.6	35,191.9	0.0144	0.0000	0.002%
East Caithness Cliffs SPA	Gearty Head	Yes	0	2015	69.2	188.0	35,346.3	0.0144	0.0000	0.000%
East Caithness Cliffs SPA	Stack of Ulbster	Yes	0	2015	68.8	188.8	35,643.2	0.0145	0.0000	0.000%
East Caithness Cliffs SPA	Whaligoe 2	Yes	5	2024	68.7	189.4	35,854.6	0.0146	0.0000	0.002%
East Caithness Cliffs SPA	Whaligoe 1	Yes	18	2024	68.3	189.9	36,075.3	0.0146	0.0000	0.007%
East Caithness Cliffs SPA	Ness Castle	Yes	1	2024	67.9	190.7	36,363.8	0.0147	0.0000	0.000%
East Caithness Cliffs SPA	Overton	Yes	2	2015	65.7	191.6	36,725.5	0.0152	0.0000	0.001%
East Caithness Cliffs SPA	Roy Geo	Yes	1	2015	63.8	193.1	37,300.4	0.0157	0.0000	0.000%
East Caithness Cliffs SPA	Occumster	Yes	1	2015	63.5	194.0	37,630.6	0.0157	0.0000	0.000%
East Caithness Cliffs SPA	Hill Head	Yes	0	2015	63.2	195.3	38,139.0	0.0158	0.0000	0.000%
East Caithness Cliffs SPA	Cleit Bheag	Yes	92	2024	60.2	202.0	40,788.6	0.0166	0.0000	0.036%
East Caithness Cliffs SPA	Dunbeath Bay	Yes	0	2015	59.8	202.7	41,090.5	0.0167	0.0000	0.000%
East Caithness Cliffs SPA	Sithean Dubh	Yes	0	2015	59.5	203.2	41,300.4	0.0168	0.0000	0.000%
East Caithness Cliffs SPA	Ramsgate	Yes	2	2015	59.3	203.6	41,446.4	0.0169	0.0000	0.001%
East Caithness Cliffs SPA	Screadan	Yes	0	2015	57.3	204.5	41,805.9	0.0175	0.0000	0.000%
East Caithness Cliffs SPA	The Clett	Yes	1	2024	50.40%	193.0	37,249.0	1.9841	0.0000	0.05%
East Caithness Cliffs SPA	Berriedale	Yes	3	2024	55.8	205.2	42,092.3	0.0179	0.0000	0.001%
East Caithness Cliffs SPA	Poll Gallon	Yes	0	2015	55.6	205.5	42,210.5	0.0180	0.0000	0.000%
East Caithness Cliffs SPA	Inver Hill	Yes	10	2024	55.4	205.9	42,379.6	0.0181	0.0000	0.004%
East Caithness Cliffs SPA	Cnoc na Stri 2	Yes	2	2015	55.0	207.0	42,848.2	0.0182	0.0000	0.001%
East Caithness Cliffs SPA	Cnoc na Stri 1	Yes	3	2015	54.7	207.5	43,057.9	0.0183	0.0000	0.001%
East Caithness Cliffs SPA	Badbea 2	Yes	3	2015	54.3	208.5	43,478.9	0.0184	0.0000	0.001%
East Caithness Cliffs SPA	Ord of Caithness 2	Yes	2	2024	53.3	210.2	44,182.8	0.0188	0.0000	0.001%
East Caithness Cliffs SPA	Ord of Caithness 1	Yes	0	2015	53.2	210.6	44,331.3	0.0188	0.0000	0.000%
East Mainland - Orkney - Tysties	Copinsay RSPB Reserve - Tysties	No	986	2016	81.5	195.6	38,260.9	0.0123	0.0000	0.31%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 7	No	0	2018	44.5	237.6	56,446.2	0.0225	0.0000	0.00%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 6	No	0	2018	44.5	237.7	56,505.1	0.0225	0.0000	0.00%
Eyemouth to Burnmouth	Eyemouth to Burnmouth 1	No	0	2018	44.4	238.9	57,055.5	0.0225	0.0000	0.00%
Eynhallow	Eynhallow	No	87	2018	83.3	233.5	54,505.4	0.0120	0.0000	0.02%

SMP Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre around Coast (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Fair Isle SPA	Fair Isle	Yes	6,666	2015	91.9	218.0	47,517.0	0.0109	0.0000	1.473%
Farne Islands SPA	Farne Islands	Yes	100,206	2024	48.6	255.5	65,278.7	0.0206	0.0010	30.507%
Findon Ness - Hare Ness	Hare Ness to Seal's Cove	No	10	2017	57.4	135.4	18,342.1	0.0174	0.0000	0.01%
Findon Ness - Hare Ness	Seal's Cove to Findon Ness	No	7	2017	57.2	136.4	18,618.3	0.0175	0.0000	0.01%
Findon Ness - Hare Ness	Findon Ness to Black Slough	No	2	2015	57.0	137.2	18,831.8	0.0175	0.0000	0.00%
Flotta & Calf of Flotta	Flotta 5	No	2	2019	79.0	209.7	43,982.9	0.0127	0.0000	0.00%
Flotta & Calf of Flotta	Flotta 6	No	4	2019	78.6	209.8	44,034.1	0.0127	0.0000	0.00%
Forth Islands SPA	Isle of May	Yes	104,208	2024	41.4	226.5	51,280.1	0.0241	0.0016	47.342%
Forth Islands SPA	Bass Rock	Yes	8	2024	38.7	239.6	57,422.5	0.0258	0.0000	0.003%
Forth Islands SPA	Craigleith	Yes	10,270	2024	37.5	243.0	59,042.2	0.0267	0.0002	4.480%
Forth Islands SPA	The Lamb	Yes	1,586	2024	37.1	244.2	59,624.8	0.0270	0.0000	0.693%
Forth Islands SPA	Fidra	Yes	1,832	2024	36.6	245.2	60,130.9	0.0273	0.0000	0.804%
Forth Islands SPA	Inchmickery RSPB	Yes	28	2024	28.1	272.1	74,036.2	0.0356	0.0000	0.013%
Forth Islands SPA	Long Craig	Yes	0	1994	26.2	279.2	77,937.6	0.0382	0.0000	0.000%
Fowlsheugh SPA	Tremuda/Old Hall Bay	Yes	7	2018	54.2	150.4	22,630.1	0.0185	0.0000	0.006%
Fowlsheugh SPA	Thornyhive Bay	Yes	4	2018	54.1	150.8	22,755.1	0.0185	0.0000	0.003%
Fowlsheugh SPA	Fowlsheugh RSPB	Yes	16	2022	54.0	151.7	23,011.7	0.0185	0.0000	0.012%
Fowlsheugh SPA	Swallow Cove - Crawton	Yes	121	2018	53.8	152.9	23,375.4	0.0186	0.0000	0.093%
Girdle Ness to Hare Ness	Burnbanks	No	0	2017	58.0	132.4	17,535.6	0.0172	0.0000	0.00%
Girdle Ness to Hare Ness	Cove Bay	No	0	2017	57.9	133.2	17,748.9	0.0173	0.0000	0.00%
Green Holms	Muckle Green Holm	No	33	2018	83.9	217.4	47,263.2	0.0119	0.0000	0.01%
Gulberwick to Fladdabister	Leea Geo to Gardie Taing	No	13	1998	94.2	274.2	75,194.4	0.0106	0.0000	0.00%
Gulberwick to Fladdabister	Scarf Taing to Leea Geo	No	15	1998	94.0	275.3	75,798.3	0.0106	0.0000	0.00%
Gulberwick to Fladdabister	Ness of Setter to Broch of Burraland	No	5	2021	94.5	277.7	77,092.9	0.0106	0.0000	0.00%
Horse Island, Colsay, Little and Ladies Holm to Fitful Head	Horse Island (HU30)	No	0	2021	95.8	249.7	62,337.1	0.0104	0.0000	0.00%
Horse Island, Colsay, Little and Ladies Holm to Fitful Head	Stack o' da Noup	No	93	2016	96.1	260.3	67,763.4	0.0104	0.0000	0.01%
Horse of Copinsay	Horse of Copinsay	No	5	2023	81.7	194.9	38,003.2	0.0122	0.0000	0.00%
Hoy and South Walls - Tysties	HOY 01 - Tysties	No	71	2016	78.4	210.5	44,302.7	0.0127	0.0000	0.02%
Hoy and South Walls - Tysties	HOY 02 - Tysties	No	116	2016	77.9	211.6	44,787.7	0.0128	0.0000	0.03%
Hoy and South Walls - Tysties	HOY 03 - Tysties	No	5	2016	77.9	214.5	45,998.2	0.0128	0.0000	0.00%
Hoy and South Walls - Tysties	HOY 04 - Tysties	No	1	2016	77.8	215.3	46,352.4	0.0129	0.0000	0.00%
Hoy and South Walls - Tysties	HOY 05 - Tysties	No	1	2016	77.4	216.3	46,780.1	0.0129	0.0000	0.00%
Hoy and South Walls - Tysties	HOY 06 - Tysties	No	8	2016	77.6	217.1	47,124.6	0.0129	0.0000	0.00%
Hoy SPA	HOY17	Yes	4	2016	77.6	217.8	47,432.0	0.0129	0.0000	0.001%
Hoy SPA	HOY29	Yes	1	2017	79.2	222.6	49,528.9	0.0126	0.0000	0.000%
Hoy SPA	Old Man of Hoy to Rora Head	Yes	4	2017	78.8	230.8	53,264.0	0.0127	0.0000	0.001%
Hoy SPA	Hoy RSPB Reserve	Yes	178	2017	78.8	231.2	53,434.9	0.0127	0.0000	0.041%

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Hoy SPA	HOY5	Yes	2	2017	79.6	232.2	53,938.7	0.0126	0.0000	0.000%
Hoy SPA	HOY6	Yes	0	2017	79.6	232.6	54,100.4	0.0126	0.0000	0.000%
Hoy SPA	HOY8	Yes	78	2017	79.1	232.8	54,175.4	0.0126	0.0000	0.018%
Hoy SPA	HOY7	Yes	94	2017	79.1	234.5	54,977.6	0.0126	0.0000	0.021%
Ireland to Maywick	Taing of Maywick to Maywick Bay	No	8	2016	96.7	269.4	72,582.3	0.0103	0.0000	0.00%
Lerwick to Gulberwick	Ruggen to Holm of Sound	No	2	1998	97.3	279.7	78,206.4	0.0103	0.0000	0.00%
Lerwick to Gulberwick	The Knab	No	2	1999	95.1	281.3	79,110.0	0.0105	0.0000	0.00%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 8	No	3	2018	47.0	185.7	34,473.3	0.0213	0.0000	0.00%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 7	No	6	2018	46.9	186.6	34,800.9	0.0213	0.0000	0.00%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 6	No	0	2018	46.7	187.5	35,154.4	0.0214	0.0000	0.00%
Lunan Bay to Arbroath	Rumkemno	No	0	2018	46.5	188.3	35,442.2	0.0215	0.0000	0.00%
Lunan Bay to Arbroath	Auchmithie	No	5	2018	46.4	189.0	35,716.1	0.0216	0.0000	0.00%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 5	No	0	2018	46.3	189.7	36,004.7	0.0216	0.0000	0.00%
Lunan Bay to Arbroath	Whiting Ness to Ethie Haven 4	No	12	2018	46.1	190.3	36,195.1	0.0217	0.0000	0.01%
Marwick Head SPA	Birsay Bay	Yes	0	2017	82.4	247.2	61,118.7	0.0121	0.0000	0.000%
Marwick Head SPA	Marwick Head	Yes	12	2016	82.0	248.9	61,960.7	0.0122	0.0000	0.002%
Maywick to Scalloway	South Havra	No	41	2016	96.7	271.8	73,894.3	0.0103	0.0000	0.01%
Maywick to Scalloway	Maywick to Holms Geo	No	5	2016	96.9	272.1	74,058.0	0.0103	0.0000	0.00%
Melvich to Duncansby Stacks SSSI	St Johns Point	No	13	2023	76.0	204.6	41,864.8	0.0132	0.0000	0.00%
Melvich to Duncansby Stacks SSSI	Ushat Head 1	No	4	2016	74.8	225.6	50,892.2	0.0134	0.0000	0.00%
Melvich to Duncansby Stacks SSSI	Dunnet Head RSPB	No	204	2022	68.30%	172.3	29,687.3	1.4641	0.0003	9.71%
Mousa SPA	Mousa RSPB	Yes	20	1999	96.8	265.0	70,219.2	0.0103	0.0000	0.003%
Newton Hill	Doonie Point to Hall Bay	No	2	2017	55.3	144.4	20,859.4	0.0181	0.0000	0.00%
Newtonhill - Hall Bay	Newtonhill - May Craig	No	3	2017	55.9	141.9	20,141.0	0.0179	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Troswick Beach to Boddam	No	0	2021	96.1	258.1	66,639.9	0.0104	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Troswick Ness	No	0	2018	96.2	259.4	67,291.5	0.0104	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Quinni Geo to Boats Noost	No	8	2017	96.4	260.8	68,034.9	0.0104	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Levenwick to Quinni Geo	No	0	2018	96.5	262.5	68,900.0	0.0104	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Noness	No	0	2021	96.7	263.7	69,539.3	0.0103	0.0000	0.00%
No Ness to Levenwick and Boddam to Virkie	Cumlewick Ness	No	0	2021	96.6	265.2	70,336.9	0.0104	0.0000	0.00%
North Caithness Cliffs SPA	Dunnet Head 1	No	33	2016	75.7	214.7	46,091.8	0.0132	0.0000	0.01%
North Caithness Cliffs SPA	Dunnet Head 2	No	193	2023	75.7	215.3	46,347.6	0.0132	0.0000	0.05%
North Caithness Cliffs SPA	Dunnet Head 3	No	198	2024	75.4	216.6	46,912.1	0.0133	0.0000	0.05%
North Caithness Cliffs SPA	Auckengill within SPA	Yes	0	2015	75.3	192.5	37,053.6	0.0133	0.0000	0.000%
North Caithness Cliffs SPA	Skirza Head	Yes	24	2024	66.1	192.7	37,128.3	0.0151	0.0000	0.009%
North Caithness Cliffs SPA	Stacks of Duncansby	Yes	76	2024	76.2	193.8	37,550.7	0.0131	0.0000	0.026%
North Caithness Cliffs SPA	Duncansby Head	Yes	11	2024	76.4	194.9	37,979.4	0.0131	0.0000	0.004%

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North Caithness Cliffs SPA	Little Clett	Yes	6	2023	75.7	213.7	45,688.6	0.0132	0.0000	0.002%
North Caithness Cliffs SPA	Dunnet Head 4	Yes	79	2024	74.6	219.6	48,204.0	0.0134	0.0000	0.021%
North Caithness Cliffs SPA	Dunnet Head 5	Yes	138	2023	74.1	223.4	49,893.7	0.0135	0.0000	0.036%
North Caithness Cliffs SPA	Holburn Head 2	Yes	47	2024	73.6	228.0	51,977.2	0.0136	0.0000	0.012%
North Caithness Cliffs SPA	Holburn Head 3	Yes	24	2024	73.5	228.9	52,392.0	0.0136	0.0000	0.006%
North Caithness Cliffs SPA	Ness of Litter	Yes	39	2024	73.7	233.8	54,683.0	0.0136	0.0000	0.009%
North Caithness Cliffs SPA	Sandside Head 1	Yes	29	2024	72.1	244.7	59,876.6	0.0139	0.0000	0.006%
North Caithness Cliffs SPA	Sandside Head 2	Yes	7	2024	72.1	245.8	60,439.3	0.0139	0.0000	0.002%
North Caithness Cliffs SPA	Melvich 1	Yes	269	2024	71.8	246.7	60,853.0	0.0139	0.0000	0.059%
North Caithness Cliffs SPA	Melvich 2	Yes	1,323	2023	71.6	247.5	61,245.4	0.0140	0.0000	0.291%
North Caithness Cliffs SPA	Melvich 3	Yes	504	2023	71.6	248.4	61,714.5	0.0140	0.0000	0.110%
North Caithness Cliffs SPA	Melvich 4	Yes	123	2016	71.7	250.1	62,550.5	0.0140	0.0000	0.026%
North Caithness Cliffs SPA	Stroma Island	No	260	2023	76.7	201.3	40,528.9	0.0130	0.0000	0.08%
North Sutherland Islands	Eilean nan Ron whole island	No	2	2021	71.5	275.3	75,809.4	0.0140	0.0000	0.00%
North Sutherland Islands	Eilean Nan Ron 6	No	NA		71.8	276.1	76,237.8	0.0139		
North Sutherland Islands	Rabbit Island 1	No	0	2021	71.2	278.4	77,523.3	0.0140	0.0000	0.00%
Noss SPA	SE Bressay = E Bressay (Shetland) Z	Yes	129	2000	97.4	277.6	77,077.9	0.0103	0.0000	0.017%
Noss SPA	Noss	Yes	545	2023	96.3	281.0	78,956.5	0.0104	0.0000	0.069%
Out Skerries	Muckle Skerry	No	0	N/A	77.6	192.9	37,197.3	0.0129	0.0000	0.00%
Papa Westray - Tysties	Papa Westray 1 - Tysties	No	28	2016	86.4	240.7	57,933.1	0.0116	0.0000	0.01%
Papa Westray (North Hill and Holm) SPA	Holm Of Papa Westray	Yes	4	2019	86.7	239.0	57,122.4	0.0115	0.0000	0.001%
Papa Westray (North Hill and Holm) SPA	North Hill RSPB, Papa Westray	Yes	26	2019	86.9	244.5	59,790.5	0.0115	0.0000	0.005%
Peerie Voe of Spiggie to St. Ninian's	Rerwick Beach to St. Ninian's Beach	No	0	2016	96.2	264.7	70,071.4	0.0104	0.0000	0.00%
Pentland Firth Islands SPA	Swona	Yes	773	2016	77.9	202.8	41,139.6	0.0128	0.0000	0.233%
Portsoy to Cullen	Garron Point	No	32	2017	57.4	152.9	23,393.4	0.0174	0.0000	0.02%
Rerwick Head to Mirkady Point	Deerness 4	No	1	2016	81.6	209.7	43,982.1	0.0123	0.0000	0.00%
Rerwick Head to Mirkady Point	Deerness 1	No	0	2016	81.5	211.5	44,721.7	0.0123	0.0000	0.00%
Rousay SPA	Rousay 13	Yes	2	2016	84.3	228.1	52,035.5	0.0119	0.0000	0.000%
Rousay SPA	Rousay 12	Yes	19	2016	84.2	229.5	52,682.2	0.0119	0.0000	0.004%
Rousay SPA	Rousay 11	Yes	17	2016	84.1	230.8	53,272.8	0.0119	0.0000	0.004%
Rousay SPA	Rousay 8	Yes	1	2016	84.2	232.8	54,197.2	0.0119	0.0000	0.000%
Rousay SPA	Rousay 7	Yes	20	2016	84.2	233.5	54,510.1	0.0119	0.0000	0.004%
Rousay SPA	Rousay 6	Yes	10	2018	84.1	234.5	54,989.8	0.0119	0.0000	0.002%
Rousay SPA	Rousay 1 - RSPB	Yes	13	2016	83.5	235.1	55,282.4	0.0120	0.0000	0.003%
Rousay SPA	Rousay 2	Yes	3	2016	83.6	235.4	55,403.7	0.0120	0.0000	0.001%
Rousay SPA	Rousay 5	Yes	8	2016	84.0	235.8	55,593.6	0.0119	0.0000	0.002%
Rousay SPA	Rousay 4	Yes	45	2016	83.8	237.1	56,215.0	0.0119	0.0000	0.009%

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Rysa Little and Cava	Cava	No	2	2018	79.5	218.9	47,907.6	0.0126	0.0000	0.00%
Sanday	Sanday 5	No	8	2017	85.9	226.0	51,094.1	0.0116	0.0000	0.00%
Scalloway Islands South	Oxna	No	4	2017	94.1	280.7	78,806.0	0.0106	0.0000	0.00%
Scalloway Islands South	Cheynies	No	1	2017	94.1	281.8	79,431.5	0.0106	0.0000	0.00%
Shapinsay (Coastal)	Shapinsay 9	No	6	2016	82.6	209.7	43,962.3	0.0121	0.0000	0.00%
Shapinsay (Coastal)	Shapinsay 10	No	6	2016	82.7	210.5	44,314.9	0.0121	0.0000	0.00%
Smoo to Melvich	Melvich 5	No	6	2016	71.6	252.4	63,728.0	0.0140	0.0000	0.00%
Smoo to Melvich	Strathy 1	No	11	2023	71.9	254.7	64,894.5	0.0139	0.0000	0.00%
South Ronaldsay	Stews - Windwick	No	6	2000	78.7	199.1	39,648.4	0.0127	0.0000	0.00%
South Ronaldsay	Windwick - Burwick	No	19	2016	78.4	199.7	39,869.3	0.0128	0.0000	0.01%
South Ronaldsay	Burwick - Sandwick	No	20	2000	78.1	202.9	41,168.4	0.0128	0.0000	0.01%
South Ronaldsay	The Altar - Quindry	No	16	2021	78.9	209.5	43,878.1	0.0127	0.0000	0.00%
South Ronaldsay	Quindry - Hoxa - Dam of Hoxa	No	0	2021	78.5	209.7	43,976.6	0.0127	0.0000	0.00%
South Ronaldsay	Hoxa Head (inland)	No	1	2016	78.8	210.0	44,113.4	0.0127	0.0000	0.00%
South Ronaldsay (West)	Herston	No	3	2016	78.6	207.1	42,903.7	0.0127	0.0000	0.00%
South Walls	South Walls	No	1	2016	78.3	211.9	44,913.1	0.0128	0.0000	0.00%
St Abb's Head to Fast Castle SPA	Broadhaven to Moorburn Point	Yes	0	2016	43.8	236.3	55,823.5	0.0228	0.0000	0.000%
St Abb's Head to Fast Castle SPA	St Abb's Head NNR	Yes	0	2019	44.1	236.5	55,930.4	0.0227	0.0000	0.000%
St Abb's Head to Fast Castle SPA	Moorburn Point to Fast Castle	Yes	0	2016	43.4	236.8	56,090.8	0.0230	0.0000	0.000%
St. Ninian's Isle	Hich Holm	No	8	2016	96.3	264.6	70,011.0	0.0104	0.0000	0.00%
St. Ninian's Isle	St. Ninian's Isle	No	64	2016	96.4	264.8	70,123.8	0.0104	0.0000	0.01%
Stonehaven to Wine Cove	Strathlethan Bay	No	0	2021	54.3	149.2	22,275.3	0.0184	0.0000	0.00%
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	No	1	2018	54.3	149.6	22,392.4	0.0184	0.0000	0.00%
Stromness Area, Hundland	Yesnaby 1	No	5	2018	81.0	239.4	57,321.5	0.0123	0.0000	0.00%
Stromness Area, Hundland	Yesnaby 2	No	17	2016	80.9	241.1	58,108.5	0.0124	0.0000	0.00%
Stronsay	Burgh Head 2	No	1	2018	84.4	202.8	41,114.9	0.0119	0.0000	0.00%
Sumburgh Head Quarries	Compass Head	No	21	2017	95.9	251.4	63,202.0	0.0104	0.0000	0.00%
Sumburgh Head SPA	Sumburgh Head	Yes	454	2024	95.9	250.2	62,600.5	0.0104	0.0000	0.073%
Sumburgh Head SPA	Geo of Parks to Jarlshof	Yes	0	2021	95.9	250.9	62,936.8	0.0104	0.0000	0.000%
Sumburgh Head SPA	Grutness Pier to Greystane Geo	Yes	1	2021	95.9	250.9	62,962.9	0.0104	0.0000	0.000%
Sumburgh Head SPA	Sandwick to Virkie: Boddam to Virkie within SPA	Yes	40	2021	96.1	253.7	64,340.4	0.0104	0.0000	0.006%
Sumburgh to Peerie Voe of Spiggie	Burn of Garth to Broad Stack	No	6	2017	95.9	254.8	64,927.1	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Broad Stack to Stack of Barons Geo	No	0	2021	95.9	255.0	65,011.7	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Stack of Barons Geo to The Nev	No	3	2021	96.0	256.5	65,815.3	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	The Nev to The Kame	No	87	2017	96.0	258.3	66,709.1	0.0104	0.0000	0.01%
Sumburgh to Peerie Voe of Spiggie	The Kame to Landvillas	No	39	2017	96.0	259.0	67,078.4	0.0104	0.0000	0.01%
Sumburgh to Peerie Voe of Spiggie	Landvillas to Scarfi Taing	No	86	2017	96.1	259.8	67,475.8	0.0104	0.0000	0.01%

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Sumburgh to Peerie Voe of Spiggie	Scarfi Taing to Noup o' Noss	No	166	2017	96.1	260.2	67,729.5	0.0104	0.0000	0.02%
Sumburgh to Peerie Voe of Spiggie	Stack o' da Noup to Kame	No	79	2017	96.1	260.7	67,955.6	0.0104	0.0000	0.01%
Sumburgh to Peerie Voe of Spiggie	Kame to Corbie Geo	No	7	2017	96.1	260.8	67,998.4	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Corbie Geo to Whale Stack	No	0	2016	96.1	261.0	68,103.3	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Whale Stack to Cloki Stack	No	34	2016	96.1	261.3	68,275.1	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Cloki Stack to Peerie Voe	No	2	2016	96.2	262.7	69,034.4	0.0104	0.0000	0.00%
Sumburgh to Peerie Voe of Spiggie	Colsay	No	93	2016	96.3	262.8	69,086.4	0.0104	0.0000	0.01%
Switha	Switha (Whole Island)	No	21	2019	78.4	208.7	43,538.6	0.0128	0.0000	0.01%
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	Yes	0	2017	64.7	121.0	14,631.8	0.0154	0.0000	0.000%
Troup, Pennan and Lion's Heads SPA	Pennan Head	Yes	21	2017	64.3	122.6	15,030.0	0.0155	0.0000	0.021%
Troup, Pennan and Lion's Heads SPA	Troup & Lion's Head RSPB (Coast & Reserve)	Yes	9	2017	63.8	125.2	15,675.8	0.0157	0.0000	0.009%
Troup, Pennan and Lion's Heads SPA	Crovie to Collie Head	Yes	0	2017	63.4	127.4	16,236.6	0.0158	0.0000	0.000%
Troup, Pennan and Lion's Heads SPA	More Head-Crovie Pier (+Craigandargity skerry)	Yes	1	2001	62.7	128.8	16,584.0	0.0160	0.0000	0.001%
West Burra - Shetland	Bannaminn to Croo Geo	No	2	2016	94.6	274.1	75,156.0	0.0106	0.0000	0.00%
West Westray SPA	West Westray 7	Yes	1	2017	85.4	236.9	56,120.7	0.0117	0.0000	0.000%
West Westray SPA	West Westray 6	Yes	11	2017	85.5	238.1	56,674.5	0.0117	0.0000	0.002%
West Westray SPA	West Westray 5	Yes	8	2017	85.7	239.7	57,476.2	0.0117	0.0000	0.002%
West Westray SPA	West Westray 4	Yes	19	1999	85.8	241.0	58,073.3	0.0117	0.0000	0.004%
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	Yes	17	2017	85.9	242.8	58,959.1	0.0116	0.0000	0.003%
West Westray SPA	West Westray 1	Yes	1	2017	86.0	243.7	59,405.8	0.0116	0.0000	0.000%
Westray - Rapness	Castle o' Burrian	No	1,534	2016	85.7	233.5	54,526.9	0.0117	0.0000	0.32%
Westray and adjacent Holms - Tysties	Westray 6 - Tysties	No	71	2016	86.3	239.9	57,543.4	0.0116	0.0000	0.01%
Yesnaby - Ness Point, Stromness	Grid Square HY2113	No	0	2016	80.7	236.4	55,898.7	0.0124	0.0000	0.00%
Yesnaby - Ness Point, Stromness	Grid Square HY2114	No	0	2016	81.1	237.3	56,300.4	0.0123	0.0000	0.00%
Yesnaby - Ness Point, Stromness	Grid Square HY2115/2215	No	0	2016	81.2	238.3	56,775.9	0.0123	0.0000	0.00%
Yesnaby to Marwick (West Mainland)	Grid Square HY2217	No	5	2018	81.5	240.5	57,827.3	0.0123	0.0000	0.00%
Yesnaby to Marwick (West Mainland)	Grid Square HY2221	No	4	2018	81.8	244.5	59,776.3	0.0122	0.0000	0.00%
Total			241,269							100.000%

Table 6.5 Gannet Full Apportioning Results

SMP Master Site	Site	SPA	Count (IND)	Count year	At sea foraging area %	Distance to Site Array Centre around Coast (km)	Distance^2	1/Psea	Resulting Weight for SPA	Proportional Weight of SPA
Troup, Pennan and Lion's Heads SPA	Troup & Lion's Head RSPB (Coast & Reserve)	Yes	8,752	2023	69.3	125.2	15,675.8	0.0144	0.1403	9.166%
Fair Isle SPA	Fair Isle	Yes	11,184	2024	84.0	218.0	47,517.0	0.0119	0.0488	3.186%
St Abb's Head to Fast Castle SPA	St Abb's Head NNR	Yes	236	2023	47.5	236.5	55,930.4	0.0211	0.0015	0.101%
Forth Islands SPA	Bass Rock	Yes	150,518	2014	47.6	239.6	57,422.5	0.0210	0.9582	62.603%
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	Yes	2,772	2023	86.9	242.8	58,959.1	0.0115	0.0094	0.615%
Marwick Head SPA	Marwick Head	Yes	58	2023	86.4	248.9	61,960.7	0.0116	0.0002	0.012%
Noss SPA	Noss	Yes	24,670	2023	83.2	281.0	78,956.5	0.0120	0.0654	4.270%
Sule Skerry and Sule Stack SPA	Sule Skerry	Yes	6,548	2024	87.2	289.4	83,741.4	0.0115	0.0156	1.020%
Sule Skerry and Sule Stack SPA	Sule Stack	Yes	9,100	2013	86.8	290.6	84,444.9	0.0115	0.0216	1.412%
Foula SPA	Foula	Yes	4,227	2023	86.9	291.4	84,939.0	0.0115	0.0100	0.651%
Hermaness, Saxa Vord and Valla Field SPA	Hermaness	Yes	39,606	2024	85.9	359.9	129,549.6	0.0116	0.0619	4.046%
North Rona and Sula Sgeir SPA	Sula Sgeir	Yes	18,990	2023	86.9	387.8	150,385.7	0.0115	0.0253	1.652%
Flamborough and Filey Coast SPA	Flamborough Head and Bempton Cliffs	Yes	31,588	2024	45.0	406.8	165,503.3	0.0222	0.0739	4.827%
Flannan Isles SPA	West Group	Yes	10,560	2013	81.5	474.7	225,300.2	0.0123	0.0100	0.654%
St Kilda SPA	Boreray and Stacs	Yes	120,580	2013	82.0	537.7	289,153.6	0.0122	0.0885	5.785%
Total			**439,389**	**30,310**	**1,147.0**	**4,630.4**	**1,589,440**	**0.2079**	**1.5306**	**100.000%**

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