



Cenos Offshore Windfarm Limited



Cenos EIA

Appendix 23 – Regional Populations and Associated Colony Counts

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I Introduction

- 1 The Cenos Offshore Windfarm (hereafter ‘the Project’) is a proposed floating offshore wind farm, located approximately 200km off the coast of Peterhead, northeast Scotland. The Array Area covers 333km². The Project is proposed by Cenos Offshore Windfarm Ltd. (‘the Applicant’) and is a Joint Venture (JV) between Flotation Energy and Vårgrønn As (Vårgrønn).
- 2 This Appendix outlines the approach to deriving species-specific regional populations of breeding and non-breeding seabirds for use in the marine ornithology impact assessment. Regional populations are used for contextualising the impacts from Distributional Responses (EIAR Vol. 4, Appendix A22: Distributional Responses Report) and Collision Risk Modelling (EIAR Vol. 4, Appendix A21: Collision Risk Modelling Report) associated with the Project. Regional populations are also used within Population Viability Analysis (EIAR Vol. 4, Appendix A25: Population Viability Analysis Report) at the Environmental Impacts Assessment (EIA) level.
- 3 The method of calculating the regional populations follows advice provided by NatureScot in the Scoping Response received 23rd May 2024, in particular the use of BDMPS regional populations (Furness, 2015), during the non-breeding season. The species considered within ornithological impact assessment which require the calculation of breeding and non-breeding season regional populations are:
 - Black-legged kittiwake (*Rissa tridactyla*), hereafter ‘kittiwake’;
 - Common guillemot (*Uria aalge*), hereafter ‘guillemot’ (non-breeding season only);
 - Northern gannet (*Morus bassanus*), hereafter ‘gannet’; and
 - Atlantic puffin (*Fratecula arctica*), hereafter ‘puffin’.
- 4 Guillemot were not assessed during the breeding season as there were no colonies within mean maximum foraging range plus one Standard Deviation (mmfr + 1SD) of the Project (Woodward *et al.*, 2019). This aligns with the NatureScot response on the Scoping Report received 23rd May 2024. Current guidance from NatureScot requests that guillemot be assessed in the non-breeding season using the regional population derived using the breeding season mmfr + 1SD. As there are no colonies within foraging range of the Project, NatureScot requested during the non-breeding season that impacts be assessed in relation to the non-breeding population presented in Furness (2015) (written advice received 2nd April 2024).

2 Compiling regional populations

2.1 Breeding season

- 5 For the breeding season, regional populations were derived using species-specific foraging ranges presented in Woodward *et al.* (2019), following guidance from NatureScot (2023a) (Table 1). The total number of breeding adult birds from all the colonies within the species-specific mmfr + 1SD of the Project were combined to derive the breeding season regional population for kittiwake and puffin.
- 6 Following NatureScot guidance, the mmfr + 1SD was used for all gannet colonies without site-specific data. Where colony-specific data were available and greater than the mmfr + 1SD, maximum foraging range values were used to determine whether the Project is located within this range NatureScot (2023a).

Table 1 Mean maximum (mean max) foraging ranges (plus one standard deviation) used to calculate breeding season regional populations (NatureScot, 2023; Woodward *et al.*, 2019)

Species	Foraging range (km)	One standard deviation (km)	Metric
Kittiwake	156.1	144.5	Mean-max plus 1SD
Guillemot	Not assessed during breeding season		
Gannet	315.2	194.2	Mean-max plus 1SD
	590	-	Max (Forth Islands)
	709	-	Max (St Kilda)
Puffin	137.1	128.3	Mean-max plus 1SD

- 7 Seabird colony data which was most contemporaneous to the time of site-specific Digital Aerial Surveys (DAS) from the UK and Ireland were taken from the Seabird Monitoring Programme (SMP), hosted by the British Trust for Ornithology (BTO). This includes information from the fourth seabird census, the Seabird Count. The authors were provided with a full download of the SMP database from the BTO database spanning 1986 to 2023 from the BTO on 25th May 2023. These data were initially used and where applicable, substituted by more recent/contemporaneous data hosted on the online SMP database. The most contemporaneous count of each colony (SPA and non-SPA) within the species-specific maximum foraging range of the Project (Woodward *et al.*, 2019) were combined to produce the regional breeding population. Under ‘breeding colony population estimates’ within NatureScot Guidance Note 5 (NatureScot, 2023b), this method follows Scenario 1, where most colonies have been recently counted except one major colony. For the Project, this mainly relates to gannet at Forth Islands SPA (specifically at Bass Rock). In this case, data from the most recent gannet count, available on the SMP (2013 - 2014) were used.

- 8 All colonies outwith the species-specific foraging range (Woodward *et al.*, 2019) from the Project were filtered out and removed from the calculation of breeding season regional populations. All data manipulation was undertaken in R version 4.2.2 (R Core Team, 2023); code can be made available on request.
- 9 As most seabird species of interest are unlikely to fly over land, generally relying on the marine environment to forage and transit, the foraging range was calculated using by-sea distance from the Project rather than Euclidian or 'straight-line' distance. Table 2 presents the breeding season regional populations for the species of interest. Maps indicating which colonies were included in breeding season regional populations as well as the colony counts are presented in Annex I: Colonies included in breeding season regional populations.
- 10 Although Flamborough and Filey Coast SPA and Sule Skerry and Sule Stack SPA were found to have connectivity with the Project for gannet, when screened in using the foraging range from Woodward *et al.* (2019), these sites were not included in breeding season regional populations. As reported in the HRA Screening Report (Cenos Offshore Windfarm Ltd, 2024), gannet from this site are unlikely to interact with the Project, based on evidence from tracking studies which show clear space partitioning of UK gannet (Wakefield *et al.*, 2013), and supported by telemetry data from gannet at Flamborough and Filey Coast SPA which do not show overlap with the Array Area. The Scoping Opinion from Marine Directorate Licensing Operations Team (MD-LOT) (received September 2024) confirms that there is likely to be no Likely Significant Effect (LSE) on the gannet qualifying interest at this site, therefore this SPA is not included any further in assessment. The same logic has been applied to gannet at Sule Skerry and Sule Stack SPA, therefore these SPAs are not included within gannet breeding season regional populations.

Table 2 Breeding season regional populations for the Project (adult individuals)

Species	Regional breeding population
Kittiwake	231,732
Gannet	238,322
Puffin	215,019

2.1 Non-breeding season

- 11 For the non-breeding season regional populations, Biologically Defined Minimum Population Scales (BDMPS; Furness, 2015) were used rather than colony data to derive regional populations, following the NatureScot response to the Scoping Report, received 23rd May 2024. The BDMPS regions surrounding the Project which were used for each species are presented in Table 3 as well as the population sizes (number of individuals). For kittiwake and gannet, the autumn migration population from Furness (2015) was used as mean seasonal peaks for both species occurred during the autumn.

Table 3 Non-breeding season regional populations (individuals) (Furness, 2015)

Species	Regional non-breeding population	BDMPS Region
Kittiwake	829,937	UK North Sea
Guillemot	1,617,306	UK North Sea and Channel
Gannet	456,298	UK North Sea and Channel
Puffin	231,957	UK North Sea and Channel

3 References

Furness, R.W. (2015). Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Reports, No.164.

NatureScot. (2023a). Guidance Note 3: Guidance to support Offshore Wind applications: Marine Birds - Identifying theoretical connectivity with breeding site Special Protection Areas using breeding season foraging ranges. NatureScot.

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R Core Team (2023). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. Available online at: <https://www.r-project.org/>

Wakefield, E.D., Bodey, T.W., Bearhop, S., Blackburn, J., Colhoun, K., Davies, R., Dwyer, R.G. *et al.* (2013). Space partitioning without territoriality in gannets. *Science*, 341(6141), pp. 68-70.

Woodward, I., Thaxter, C. B., Owen, E. and Cook, A.S.C.P. (2019). Desk-based revision of seabird foraging ranges used for HRA screening. BTO research report number 724.

Annex I: Colonies included in breeding season regional populations

- 12 The colonies included in breeding season regional populations for kittiwake and puffin are shown in Figure 1 and Figure 2 and Table 4 and Table 5, respectively. For these species, the species-specific mmfr plus 1SD presented in Woodward *et al.* (2019) was used to calculate the breeding season regional populations (refer to Section 1).
- 13 For gannet, three different foraging ranges were used (Table 1); the site-specific mmfr plus 1SD from Woodward *et al.* (2019) (Figure 3; Table 5), the maximum range specific to the Forth Islands SPA ; and the maximum range specific to St Kilda SPA. The colonies within the species-specific foraging range (Woodward *et al.*, 2019) from the Project were combined to create the breeding season regional population used in assessment. Some colonies were excluded due to evidence of space partitioning from Wakefield *et al.* (2013); more information is presented in Section 2.1.

Figure 1 Location of colonies included in kittiwake breeding season regional population using species-specific foraging range (Woodward et al., 2019). Shapefiles were not available for non-designated colonies so only SPA colonies have been mapped. For the full list of colonies included see the accompanying table below

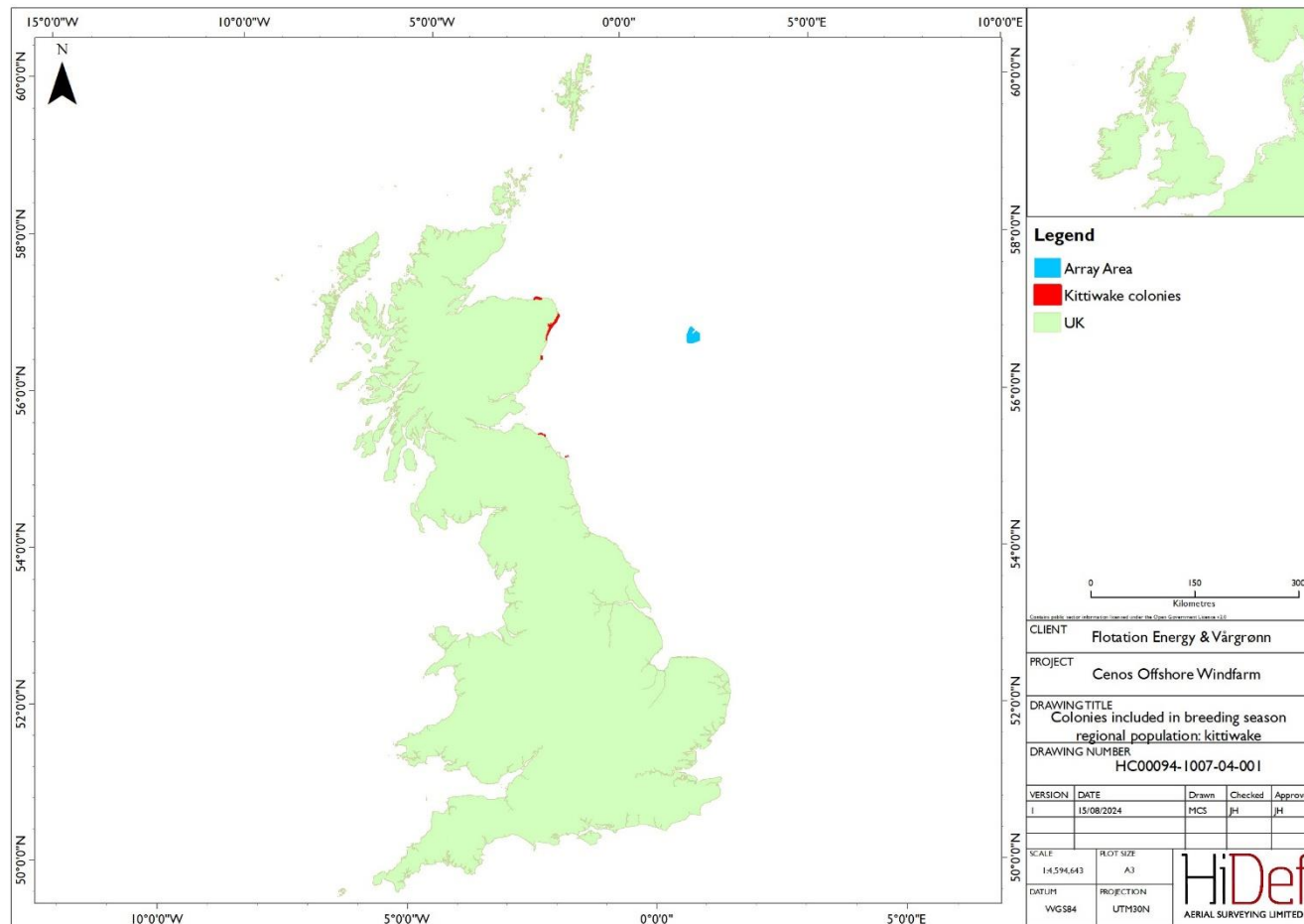


Table 4 Colonies and sub colonies included in kittiwake breeding season regional population, total count per site highlighted in light grey with bold text

Colony	Sub colony	Year of count	Count (adult individuals)
Berwick to Scottish Border	Berwick 3	2000	2,120
	Berwick 4	2000	934
	-	2000	3,054
Buchan Ness to Collieston Coast SPA	-	2023	27,094
Burn of Daff	Black Slough to Burn of Daff	2017	606
	Burn of Daff to Newtonhill	2017	1,580
	-	2017	2,186
Catterline to Inverbervie	Darn Bay	2017	20
	Kineff	2017	244
	Little John's Haven	2017	12
	Rouen bay	2017	382
	Swirl Cove	2017	91
	The Slainges	2017	2,128
	Whistleberry	2017	948
	Yellow Ark	2017	268
	-	2017	4,093
Copinsay SPA	Black Holm	2018	0
	Copinsay RSPB	2015	529
	Corn Holm	2015	0
	Ward Holm	2015	0
	-	2015 & 2018	529
Coquet Island SPA	-	2024	694
East Caithness Cliffs	Berriedale	2015	148
	Ceann Leathad nam Bo 1	2015	10
	Ceann Leathad nam Bo 2	2015	28
	Cleit Bheag	2015	490
	Cnoc na Croiche	2015	812

Colony	Sub colony	Year of count	Count (adult individuals)
	Cnoc na Croiche	2015	94
	Cnoc na Stri 1	2015	124
	Cnoc na Stri 1	2015	162
	Cnoc na Stri 2	2015	572
	Corbiegeo	2015	576
	Corbiegeo	2015	3,290
	Creag na Cuinge 1	2015	1,000
	Creag na Cuinge 2	2015	560
	Creag na Cuinge 3	2015	448
	Creag na Cuinge 3	2015	470
	Creag na Cuinge 4	2015	58
	Dunbeath Bay	2015	0
	Forse Head	2015	374
	Forse Head	2015	180
	Gearty Head	2015	0
	Halberry Head	2015	180
	Halberry Head	2015	1,546
	Helman Head	2015	154
	Hill Head	2015	334
	Inver Hill	2015	10,498
	Ires Geo	2015	1,228
	Ires Geo	2015	3,852
	Llama Farm	2015	0
	Ness Castle	2015	1,800
	Ness Castle	2015	470
	Occumster	2015	0
	Ord of Caithness 1	2015	0
	Ord of Caithness 2	2015	336
	Overton	2015	108
	Overton	2015	80

Colony	Sub colony	Year of count	Count (adult individuals)
	Poll Gallon	2015	542
	Ramsgate	2015	516
	Rockhead	2015	8,136
	Rockhead	2015	2,980
	Screadan	2015	4
	Sithean Dubh	2015	1,380
	Stack of Ulbster	2015	140
	The Brough	2015	442
	The Clett	2015	1,420
	The Clett	2015	1,046
	Whaligoe 1	2015	1,028
	Whaligoe 2	2015	88
	Whaligoe 2	2015	1,216
	Wick Bay within SPA	2018	38
	-	2015 & 2018	48,958
Eyemouth to Burnmouth	Eyemouth to Burnmouth 1	2018	120
	Eyemouth to Burnmouth 2	2018	342
	Eyemouth to Burnmouth 3	2018	12
	Eyemouth to Burnmouth 4	2018	124
	Eyemouth to Burnmouth 5	2018	228
	Eyemouth to Burnmouth 6	2018	316
	Eyemouth to Burnmouth 7	2018	276
	-	2018	1,418
Farne Islands SPA	-	2023	7,166
Findon Ness – Hare Ness	Findon Ness to Black Slough	2017	160
	Hare Ness to Seal's Cove	2017	1,624
	Seal's Cove to Findon Ness	2017	570
	-	2017	2,354
Firth of Forth SPA	Dunbar Coast	2007	2,310
Fishtown of Usan to River North Esk	Fishtown of Usan	2018	0

Colony	Sub colony	Year of count	Count (adult individuals)
Forth Islands SPA	Bass Rock	2024	1,346
	Craigeleith	2024	1,320
	Eyebroughty	2019	0
	Fidra (RSPB)	2024	664
	Isle of May	2024	10,850
	The Lamb	2024	0
	-	2019 & 2024	14,180
Fowlsheugh SPA	Fowlsheugh RSPB	2023	30,966
	Swallow Cove - Crawton	2018	4,312
	Thornyhive Bay	2018	3,342
	Tremuda/ Old Hall Bay	2018	1,536
	-	2018 & 2023	40,156
Fraserburgh	-	2021	162
Girdle Ness to Hare Ness	Cove Bay	2017	2,646
	Cove to Hare Ness	2017	722
	Greg Ness - Seals Hole	2017	818
	-	2017	4,186
Hall Bay to Craigeven Bay	-	2017	158
Howick – Cullernose Point – Dunstanburgh Castle Point	Cullernose Point	2019	184
	Dunstanburgh Castle	2024	1,208
	Howick	2019	1,280
	-	2019	2,672
Lunan Bay to Arbroath	Auchmithie	2018	7
	Whiting Ness to Ethie Haven 1	2018	204
	Whiting Ness to Ethie Haven 4	2018	922
	Whiting Ness to Ethie Haven 4	2018	933
	Whiting Ness to Ethie Haven 5	2018	0
	Whiting Ness to Ethie Haven 7	2018	0

Colony	Sub colony	Year of count	Count (adult individuals)
	Whiting Ness to Ethie Haven 8	2018	0
	-	2018	2,066
Marsden Bay	-	2016	4,776
Montrose to Lunan Bay	-	2017	740
Newton Hill	-	2017	4
Newtonhill – Hall Bay	-	2017	596
North Caithness Cliffs SPA	Auckengill within SPA	2015	0
	Duncansby Head	2015	278
	Duncansby Head	2015	236
	Dunnet Head 2	2023	146
	Dunnet Head 3	2023	5680
	Holburn Head 2	2023	4
	Holburn Head 2	2023	72
	Holburn Head 3	2015	20
	Little Clett	2016	10
	Melvich 1	2023	508
	Melvich 2	2023	178
	Melvich 3	2023	3644
	Sandside Head 1	2023	2026
	Sandside Head 2	2023	824
	Skirza Head	2023	1148
	Skirza Head	2023	584
	Stacks of Duncansby	2023	1,432
Stroma Island	2023	148	
-	2015, 2016 & 2023	16,938	
Peterhead	-	2021	66
Portknockie	-	2018	62
Portsoy to Cullen	Findlater	2017	158
	Garron Point	2017	434

Colony	Sub colony	Year of count	Count (adult individuals)
	Redhythe Point	2017	440
	-	2017	1,032
River Dee to Muchalls	-	2014	922
Roseheartly to Bay of Cullen	Bay of Cullen	2017	0
	Head of Garness	2017	6
	Snow Craig	2017	50
	Roseheartly	2017	0
	Stocked Head	2017	0
	-	2017	56
Seahouses	-	2019	412
St Abb's Head to Fast Castle SPA	Fast Castle Head	2018	0
	Broadhaven to Moorburn Point	2023	1,064
	Moorburn Point to Fast Castle	2023	176
	St Abb's Head NNR	2023	9,964
	-	2018 & 2023	11,204
St Abb's to Eyemouth	-	2018	0
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	2018	534
	Strathlethan Bay	2021	61
	Strathlethan Bay	2021	26
	-	2018 & 2021	621
Troup, Pennan and Lion's Heads SPA	Aberdour Bay	2017	4,786
	Crovie to Collie Head	2017	1,516
	More Head - Crovie Pier	2017	224
	Pennan Head	2017	1,110
	Troup and Lion's Head RSPB	2023	19,706
	West Quarry Head	2017	2
	-	2017 & 2023	27,344
Ythan Estuary, Sands of Forvie and Meikle Loch SPA	-	2024	946
Kittiwake regional population			231,732

Figure 2 Location of colonies included in puffin breeding season regional population using species-specific foraging range (Woodward et al., 2019). Shapefiles were not available for non-designated colonies so only SPA colonies have been mapped. For the full list of colonies included see the accompanying table below

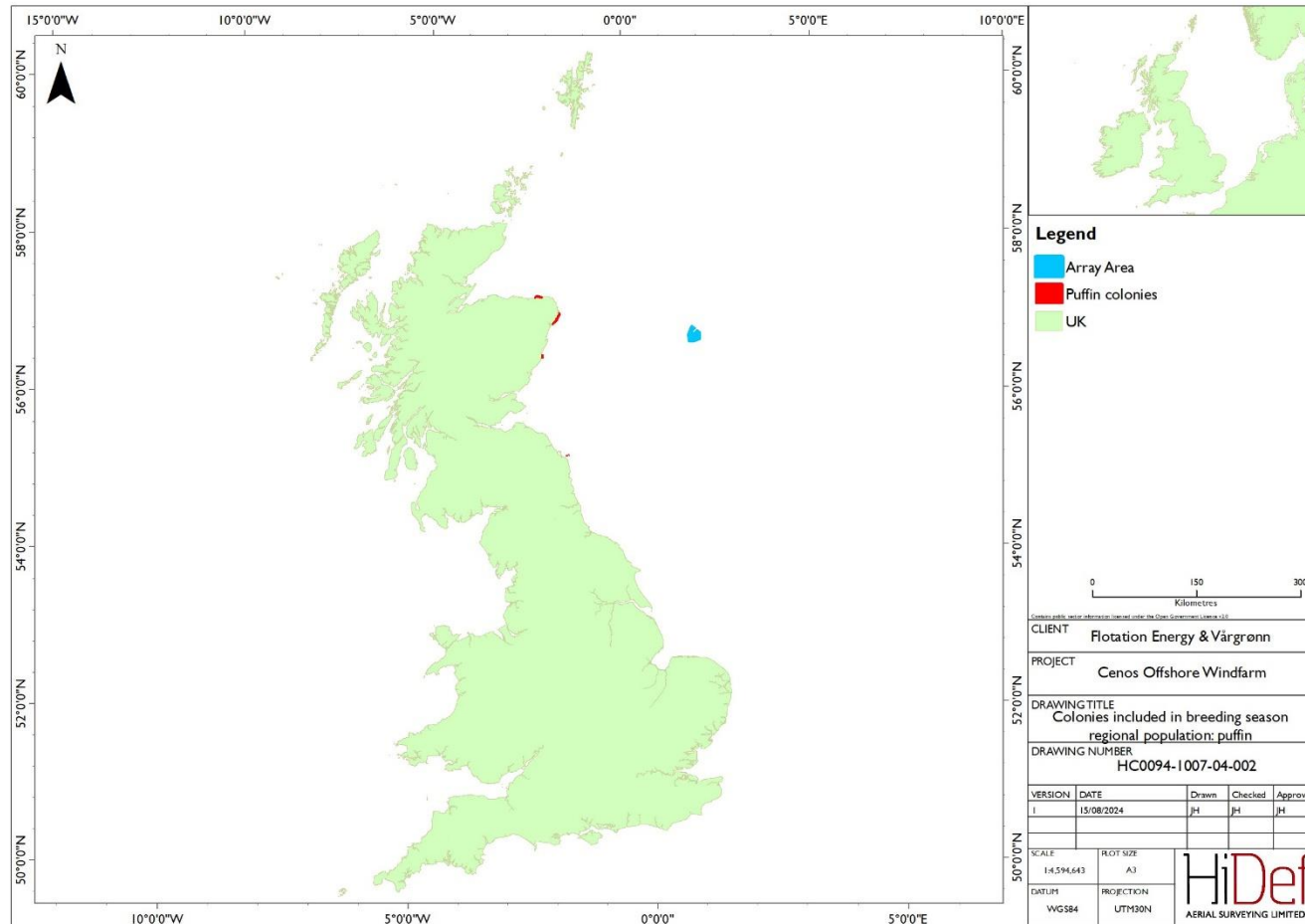


Table 5 Colonies and sub colonies included in puffin breeding season regional population, total count per site highlighted in light grey with bold text

Colony	Sub colony	Year of count	Count (adult individuals)
Buchan Ness to Collieston Coast SPA	Buchan Ness to Collieston	2023	6
	Buchan Ness to Collieston	2023	49
	Buchan Ness to Collieston	2023	7
	-	2023	62
Burn of Daff	Black Slough to Burn of Daff	2017	2
	Black Slough to Burn of Daff	2017	5
	Burn of Daff to Newtonhill	2017	0
	-	2017	7
Catterline to Inverbervie	Rouen Bay	2017	2
	Darn Bay	2017	0
	Kineff	2017	0
	Little John's Haven	2017	0
	The Slainges	2017	5
	Swirl Cove	2017	0
	Whistleberry	2017	3
	Yellow Ark	2017	0
	-	2017	10
Coquet Island SPA	-	2024	35,028
Farne Islands SPA	-	2019	87,504
Findon Ness – Hare Ness	Findon Ness to Black Slough	2015	2
	Hare Ness to Seal's Cove	2017	7
	Hare Ness to Seal's Cove	2017	3
	Seal's Cove to Findon Ness	2017	7
	-	2015 & 2017	19
Forth Islands SPA	Bass Rock	2023	8
	Craigleith	2023	10,270
	Fidra (RSPB)	2023	1,832
	Isle of May	2017	78,400
	Inchmickery RSPB	2023	28
	The Lamb	2023	1,586

Colony	Sub colony	Year of count	Count (adult individuals)
	-	2017 & 2023	92,124
Fowlsheugh SPA	Fowlsheugh RSPB	2022	16
	Swallow Cove - Crawton	2018	7
	Swallow Cove - Crawton	2018	114
	Thornyhive Bay	2018	4
	Tremuda/Old Hall Bay	2018	4
	Tremuda/Old Hall Bay	2018	3
	-	2018 & 2022	148
Girdle Ness to Hare Ness	-	2017	0
Lunan Bay to Arbroath	Auchmithie	2018	5
	Rumkemno	0	2018
	Whiting Ness to Ethie Haven 4	2018	12
	Whiting Ness to Ethie Haven 5	2018	0
	Whiting Ness to Ethie Haven 6	2018	0
	Whiting Ness to Ethie Haven 7	2018	6
	Whiting Ness to Ethie Haven 8	2018	3
	-	2018	26
Newtonhill	Doonie Point to Hall Bay	2017	1
	Doonie Point to Hall Bay	2017	1
	-	2017	2
Newtonhill – Hall Bay	-	2017	3
St Abb's Head to Fast Castle SPA	Broadhaven to Moorburn Point	2016	0
	Moorburn Point to Fast Castle	2016	0
	St Abb's Head NNR	2019	0
	-	2016 & 2019	0
Stonehaven to Wine Cove	Old Hall Bay - Castle Haven	2018	1
	Strathlethan Bay	2021	0
	-	2018	1
Troup, Pennan and Lion's Heads SPA	More Head-Crovie Pier (+Craigandargity skerry)	2001	1
	Aberdour Bay	0	2017

Colony	Sub colony	Year of count	Count (adult individuals)
	Crovie to Collie Head	0	2017
	Pennan Head	2017	21
	Troup & Lion's Head RSPB (Coast & Reserve)	2017	9
	-	2001 & 2017	31
Puffin regional population			215.019

Figure 3 Location of colonies included in gannet breeding season regional population using species-specific foraging range (Woodward et al., 2019). Shapefiles were not available for non-designated colonies so only SPA colonies have been mapped. For the full list of colonies included see the accompanying table below

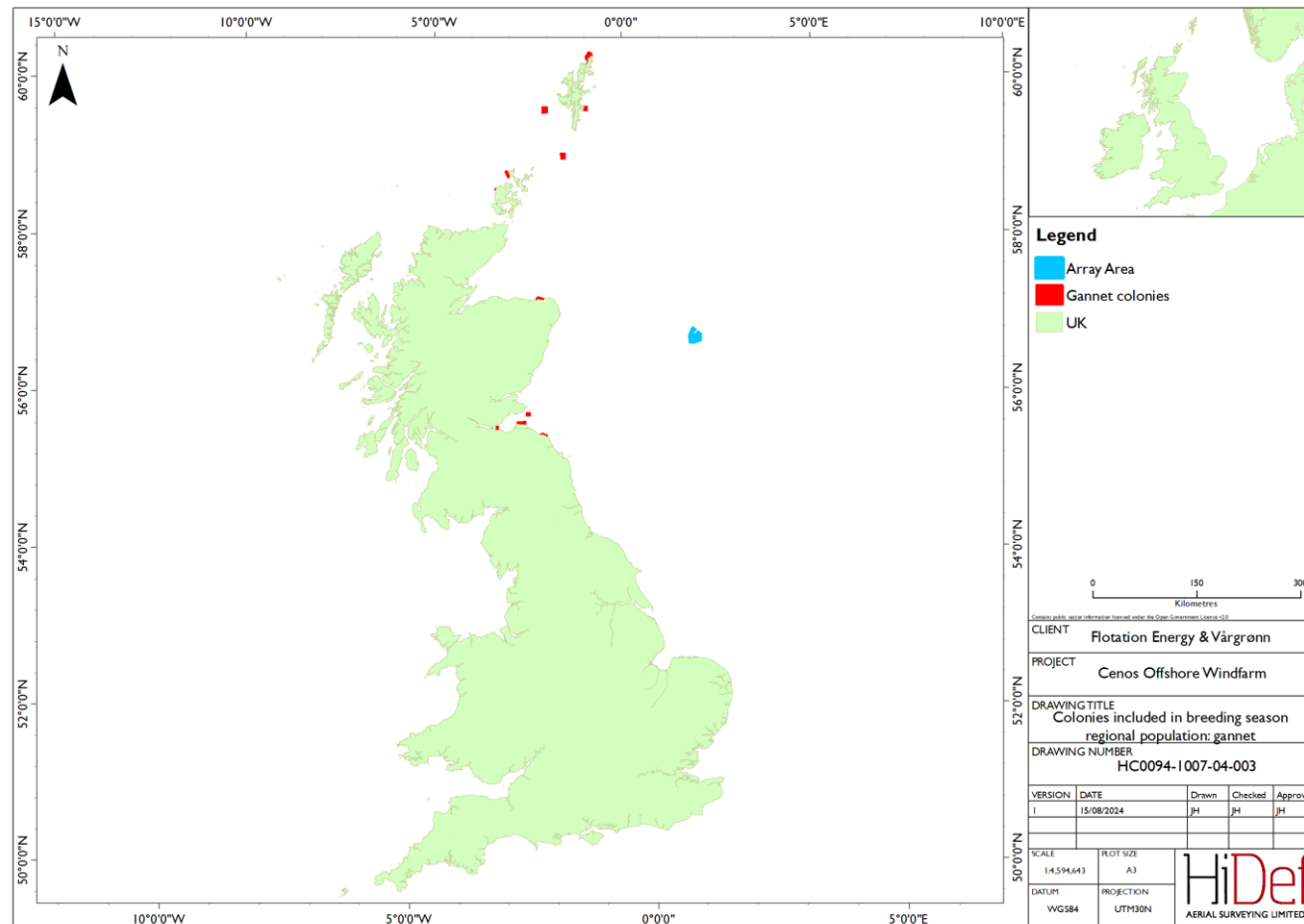


Table 6 Colonies and sub colonies included in gannet breeding season regional population, total count per site highlighted in light grey total count per site highlighted in light grey with bold text

Colony	Sub-colony	Year of count	Count (adult individuals)
Fair Isle SPA	-	2023	9,654
Forth Islands SPA	-	2014	150,518
Foula SPA	-	2023	4,172
Hermaness, Saxa Vord and Valla Field SPA	-	2023	37,478
Marwick Head SPA	-	2023	116
Noss SPA	-	2023	24,670
St Abb's Head to Fast Castle SPA	-	2023	190
Troup, Pennan and Lion's Head SPA	-	2023	8,752
West Westray SPA	Noup Cliffs RSPB (West Westray 2)	2023	2,772
Gannet regional population			238,322