

Final Report

Population Trends of Breeding Seabird Colonies in Scottish SPAs

Scottish Government (Marine Scotland)

Client: Marine Scotland

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Population sizes of seabirds breeding in Scottish SPAs

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1 Introduction

In accordance with the Environmental Impact Assessment (EIA) and Habitats Regulation Appraisal (HRA) developers need to consider the impacts of a plan or project on Special Protection Areas (SPA) populations where there is the potential for an interaction to exist. At present there is no single source of information that identifies the best available population trends of SPA breeding populations to inform this process. As a result there is often inconsistent population estimates with high degrees of uncertainty used in impact assessments. The application of various approaches to EIA and HRA places additional resourcing requirements on Marine Scotland and their statutory nature conservation advisors who will review each approach adopted. To address this issue Marine Scotland commissioned Natural Power Consultants (NPC) to undertake a review of extant data on SPA breeding populations around the Scottish Coast to:

- Provide an overview of current data availability for key seabird species relevant to offshore renewable developments at SPA's for which they are designated.
- Demonstrate evidence for any population trends in species on an SPA basis with a view to estimating current population sizes if possible.
- Provide a resource detailing the allocation of data from colony counts from JNCC to specific SPA colonies.

This review builds upon the outputs of the NPC report "Populations sizes of breeding seabirds in Scottish SPAs" (NPC, 2012¹) which was delivered as part of Scottish Government work package E. This provided an investigation of the spatial and temporal coverage of colony count data collected at all SPAs. The outputs of the initial report included a 5 year mean using the most recent data, a mean using all data collected since the last national census and a presentation of trends within the data since the last national census. All raw data used are presented within the initial report and are not reproduced here.

The data acquisition and treatment methodologies applied to both work packages E and H share many commonalities. Therefore, the methodology presented below duplicates some of the methodology described in the work package E report (NPC, 2012).

The current report presents trends in the data using the most complete time series data available for each designated SPA species. The trend plots are presented below with associated standard errors, arranged by species, for each SPA where there is sufficient data coverage.

It is anticipated that the population trends will help inform the status of designated SPA populations to feed into impact assessments in the context of EIA and HRA during the consenting process for marine renewable projects. It is of key importance to note that the purpose of this collation of data for Marine Scotland is to help inform renewable developers, rather than acting as a specific review of SPAs.

The task was originally to include all features of 'SPAs with marine components'. However, a 'marine component' of an SPA refers to a species that is dependent on a marine habitat, such as a sea inlet, estuary, mud flats, or salt marsh. A total of 119 species of bird are listed by the Joint Nature Conservation Committee (JNCC) as being dependent on marine environments, including wildfowl, divers, grebes, waders, true seabirds, and certain species that can occupy littoral habitats such as short-eared owl, kingfisher, and twite. Therefore, Marine Scotland focused the

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¹ Lewis, M., Lye, G., Pendlebury, C., Walls, R. (2012) Populations sizes of breeding seabirds in Scottish SPA's. Work Package E, Commissioned by Scottish Government (Marine Scotland).

work towards species which are more frequently recorded in locations proposed for offshore renewable developments (offshore wind, wave & tidal schemes). The list of species to be considered was restricted to SPA populations of true seabirds (petrels, shearwaters, northern gannet, great cormorants, skuas, gulls, terns, and auks) that rely on marine habitats during the breeding season. The final list of seabird included within the current review comprises of the following species:

Northern fulmar Great black-backed gull Northern gannet Black-legged kittiwake

Leach's storm petrel Little tern European storm petrel Common tern Manx shearwater Arctic tern Great cormorant Roseate tern European shag Sandwich tern Great skua Guillemot Arctic skua Razorbill Lesser black-backed gull Atlantic puffin

Herring gull

2 Methods

Data were obtained from the JNCC's Seabird Monitoring Programme (SMP), SNH, bird observatories such as Fair Isle and Isle of May, and any other regularly manned and monitored reserves, such as Scottish Wildlife Trusts (SWT) Handa Island reserve, or the Royal Society for the Protection of Birds (RSPB) reserve at Marwick Head. These data were then collated together into a single Excel spreadsheet, where they could be arranged in order of SPA, species, and year. If there were multiple counts for the same count site in the same year, these were considered to be partial counts and were summed.

There were several issues identified with collating the data available. The SMP began before the Birds Directive and the need for SPA designation, and consequently the count areas and sites used are not necessarily compatible with the boundaries of relevant SPAs.

Therefore, the majority of count sites were selected manually, by eye, by the JNCC's SMP coordinator prior to the production of the Work Package E report. For a small number of SPAs this was deemed an unsuitable approach (Fetlar SPA, Hoy SPA, Papa Stour SPA, Papa Westray SPA, Rousay SPA, and South Uist Machair and Lochs SPA). It was therefore agreed with JNCC (Roddy Mavor) to apply a GIS-based approach to isolate count sites within these SPAs, using a spatial join tool. The spatial join tool overlays the count sites with the SPA shapefiles, thus isolating all positions that fall within the boundaries of an SPA. The count sites observed during data collection are presented in Table 3.1 alongside the Ordnance Survey grid references.

Where necessary some incompatible counts (due to count type) were eliminated. The data presented here represents the largest dataset of compatible counts for each species at each SPA. Most of the variation in count types pertains to different methods of counting or expressing breeding 'units'. Therefore, the following count types were regarded as breeding 'units' and were considered compatible for incorporation into the current review. They are presented in the following species accounts as 'pairs':

- · Occupied nests;
- Occupied sites;
- Occupied burrows;
- Occupied territories.

Counts for auks were predominantly of individuals on land apart from Atlantic puffins, which were counted in occupied burrows (counts for individuals on land have been used as a proxy for occupied burrows in some innaccessable sites, meaning that Hermaness and Mingulay and Berneray include data of both types).

In this report, we provide an overview of data availability and population trends at individual SPAs on a species by species basis in the form of species accounts. An index of 'data availability' has been tabulated within each species account to assess the temporal and (for SPAs with multiple count sites) the geographical coverage at each SPA. The index in no way comments on the reliability of the data held for any SPA. The number of years since the first Seabird 2000 count for each species (2000 or the nearest year with a complete count between 1998 and 2002) where all count sites at an SPA were observed is presented. The first Seabird 2000 count is defined as the first year where all colony counts were observed between 1998 and 2002. A proportion indicating the number of years surveyed against the total number of possible survey years (up until 2011) since the first Seabird 2000 count is presented to provide an indication of the temporal coverage of full SPA colony counts. The number of years during which only part of an SPA was observed is also tabulated, and in this case the proportion represents the number of counts observed as a percentage of the total number of possible counts, i.e. every count site recorded every year within the SPA. This proportion provides an indication of the geographic coverage for each species at each SPA. Where values are low it is likely that application of the data within marine renewable EIAs and HRAs will be accompanied by increased uncertainty in the final risk determinations.

For species where there is at least five complete years of data (counted at every count site within an SPA) since the first Seabird 2000 count population trends for that colony have been produced. Where there is a variation from this rule it is detailed within each species account. The raw counts are presented graphically with a polynomial smooth trend line and associated standard errors around the fitted values produced using the statistics program R.

As might be expected, fluctuations in local population sizes over time suggest that a combination of different variables affects the abundance of birds counted at any given site each year. As a result, whilst in many cases it may be possible to detect general population trends, confidence will be low for a model with year as the sole explanatory variable. The graphs produced in this report show that confidence intervals around predictions into the future based on such a model are so great that these predictions will provide no more value and could prove less accurate for assessing the impacts of marine renewable in the context of EIA and HRA than simply using the latest available count. We therefore recommend that consenting decisions should be based on field collected data rather than attempting to extrapolate from existing data.

3 Count sites observed at each SPAs

Table 3.1. Count site positions observed within each Special Protection Area.

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|---------------------------------|-------------------------------|-----------------------------------|---------------------------------|
| Ailsa Craig | Ailsa Craig | NX01529948 | |
| Auskerry | Auskerry | HY675163 | |
| Buchan Ness to Collieston Coast | Boddam to Collieston | NK086358 | |
| Calf of Eday | Calf of Eday 1 | HY581392 | |
| Call Of Eday | Calf of Eday coast | HY58044038 | HY58044038 |
| Canna & Sanday | Canna & Sanday | NG24770534 | |
| | An Garbh-Eilean | NC33197349 | |
| | Cape Wrath 3 | NC27107385 | NC26147481 |
| | Cape Wrath 4 | NC26147481 | NC25757488 |
| | Clo Mor 1 | NC35707095 | NC34887167 |
| | Clo Mor 10 | NC30357345 | NC29527358 |
| | Clo Mor 11 | NC29527358 | NC29177299 |
| | Clo Mor 2 | NC34887167 | NC34267188 |
| Cape Wrath | Clo Mor 4 | NC34267188 | NC33607251 |
| | Clo Mor 5 | NC33607251 | NC33037325 |
| | Clo Mor 7 | NC33037325 | NC32407295 |
| | Clo Mor 8 | NC32407295 | NC31507315 |
| | Clo Mor 9 | NC31507315 | NC30357345 |
| | Geodha Ruadh na Fola | NC24617078 | NC25117094 |
| | Na Glas Leacan | NC34647200 | |
| | North of Geodha Ruadh na Fola | NC25117094 | NC25127185 |
| | Black Holm | HY59460204 | |
| Copinsay | Copinsay | HY61110135 | |
| Сортзиу | Corn Holm | HY600018 | |
| | Ward Holm | HY59580142 | |
| | Alness Point | NH65216765 | |
| | Ardullie | NH588621 | |
| | Craigie Howe | NH68795184 | NH68495218 |
| Cromarty Firth | Dalmure Distillery | NH66526874 | |
| | Deephaven Industrial Estate | NH622668 | |
| | Foulis Tern Raft | NH601635 | |
| | Invergordon Town and Docks | NH71006858 | |
| | McDermott's | NH81725740 | |
| | Whiteness Head | NH805586 | |
| East Caithness Cliffs | Badaidh na Gaoithe | ND14852678 | ND14932678 |
| Last Cartiffess Ciffs | Badbea 1 | ND08901985 | ND09242000 |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|----------|------------------------|-----------------------------------|---------------------------------|
| | Badbea 2 | ND09242000 | ND10182069 |
| | Berriedale | ND12032248 | ND12752351 |
| | Burrigill | ND22063379 | ND23043399 |
| | Ceann Leathad nam Bo 1 | ND13192385 | ND13282392 |
| | Ceann Leathad nam Bo 2 | ND13282392 | ND13292404 |
| | Cleit Bheag | ND16792931 | ND18083095 |
| | Cnoc na Croiche | ND10182069 | ND10732082 |
| | Cnoc na Stri 1 | ND07031797 | ND07141807 |
| | Cnoc na Stri 2 | ND07141807 | ND07561855 |
| | Corbiegoe | ND35384357 | ND35884500 |
| | Creag na Cuinge 1 | ND07561855 | ND08131900 |
| | Creag na Cuinge 2 | ND08131900 | ND08171908 |
| | Creag na Cuinge 3 | ND08171908 | ND08731960 |
| | Creag na Cuinge 4 | ND08731960 | ND08901985 |
| | Forse Head | ND21643332 | ND22063379 |
| | Gearty Head | ND34144193 | ND34804281 |
| | Gotten Dubh | ND18083095 | ND19063215 |
| | Halberry Head | ND29753709 | ND30583827 |
| | Helman Head | ND36234628 | ND36734779 |
| | Hill Head | ND24553480 | ND26353529 |
| | Inver Hill | ND10732082 | ND11742179 |
| | Invershore | ND23043399 | ND24483479 |
| | Ires Geo | ND35884500 | ND36234628 |
| | Latheronwheel | ND19063215 | ND21643332 |
| | Llama Farm | ND12752351 | ND13192385 |
| | Ness Castle | ND30583827 | ND31373941 |
| | Occumster | ND26353529 | ND27433547 |
| | Ord of Caithness 1 | ND05691725 | ND05941725 |
| | Ord of Caithness 2 | ND05941725 | ND07031797 |
| | Overton | ND29113628 | ND29753709 |
| | Poll Gallon | ND11742179 | ND12012247 |
| | Ramsgate | ND14932678 | ND15072696 |
| | Rockhead | ND13812536 | ND14162600 |
| | Roy Geo | ND27433547 | ND27913574 |
| | Sarclet Head | ND34804281 | ND35384357 |
| | Screadan | ND13292404 | ND13812536 |
| | Sithean Dubh | ND15072696 | ND15802800 |
| | Skerry Mor | ND27913574 | ND29113628 |
| | Stack of Ulbster | ND33114138 | ND34144193 |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|-----------|--------------------------------|-----------------------------------|---------------------------------|
| | The Brough | ND36734779 | ND37034889 |
| | The Clett | ND14162600 | ND14852678 |
| | Whaligoe 1 | ND31373941 | ND32544055 |
| | Whaligoe 2 | ND32544055 | ND33114138 |
| Fair Isle | Fair Isle | HZ19447079 | |
| | Big Holm | HU62258839 | |
| | Big Holm to Moo Wick | HU62278840 | HU62158776 |
| | Corbie Head to Brough Slipway | HU58249145 | HU57799273 |
| | Cruss | HU63339130 | |
| | East Neap | HU64089438 | HU62329486 |
| | Elbow | HU58309220 | |
| | Fetlar RSPB | HU660910 | |
| | Funzie Bay to Wick of Aith | HU66338946 | HU64168998 |
| | Gruna Water | HU66419113 | |
| | Head of Hosta to Natural Arch | HU67719184 | HU67129282 |
| | Head of Hosta to the Tind | HU67719184 | HU67439051 |
| | Hestaness | HU66229260 | |
| | Horn of Rams Ness to Rams Ness | HU61128704 | HU60738710 |
| | HU570930 | HU570930 | |
| | HU580910 | HU580910 | |
| | HU580920 | HU580920 | |
| Fetlar | HU580930 | HU580930 | |
| Tetiai | HU580940 | HU580940 | |
| | HU590880 | HU590880 | |
| | HU590890 | HU590890 | |
| | HU590900 | HU590900 | |
| | HU590910 | HU590910 | |
| | HU590920 | HU590920 | |
| | HU590930 | HU590930 | |
| | HU600870 | HU600870 | |
| | HU600880 | HU600880 | |
| | HU600890 | HU600890 | |
| | HU600920 | HU600920 | |
| | HU600930 | HU600930 | |
| | HU610870 | HU610870 | |
| | HU610890 | HU610890 | |
| | HU610900 | HU610900 | |
| | HU610910 | HU610910 | |
| | HU610920 | HU610920 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|----------|----------------------------|-----------------------------------|---------------------------------|
| | HU610930 | HU610930 | |
| | HU610940 | HU610940 | |
| | HU620870 | HU620870 | |
| | HU620880 | HU620880 | |
| | HU620910 | HU620910 | |
| | HU620920 | HU620920 | |
| | HU620930 | HU620930 | |
| | HU620940 | HU620940 | |
| | HU630890 | HU630890 | |
| | HU630900 | HU630900 | |
| | HU630910 | HU630910 | |
| | HU630920 | HU630920 | |
| | HU630930 | HU630930 | |
| | HU630940 | HU630940 | |
| | HU640880 | HU640880 | |
| | HU640890 | HU640890 | |
| | HU640900 | HU640900 | |
| | HU640910 | HU640910 | |
| | HU640920 | HU640920 | |
| | HU640930 | HU640930 | |
| | HU640940 | HU640940 | |
| | HU650870 | HU650870 | |
| | HU650880 | HU650880 | |
| | HU650890 | HU650890 | |
| | HU650900 | HU650900 | |
| | HU650910 | HU650910 | |
| | HU660880 | HU660880 | |
| | HU660890 | HU660890 | |
| | HU660900 | HU660900 | |
| | HU660920 | HU660920 | |
| | HU660930 | HU660930 | |
| | HU66108940 | HU66108940 | |
| | HU670900 | HU670900 | |
| | HU670910 | HU670910 | |
| | HU670920 | HU670920 | |
| | Inner Brough to Hesta Ness | HU67089313 | HU66279279 |
| | Klifts to Big Holm | HU60518989 | HU62278840 |
| | Lamb Hoga | HU610885 | |
| | _ Lamb Hoga - shearwaters | HU60738958 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|-------------------------------|-----------------------------------|-----------------------------------|---------------------------------|
| | Little Harold's Water | HU66108940 | |
| | Mongirsdale | HY49674928 | |
| | Moo Wick to Horn of Rams Ness | HU64519203 | HU64089438 |
| | Natural Arch to Inner Brough | HU67129282 | HU67089313 |
| | Ness of Gruting | HU65799131 | HU64519203 |
| | Outer Brough | HU67039316 | HU67039316 |
| | Pobies Grey Stack | HU66279279 | HU66159226 |
| | Rams Ness to Corbie Head | HU60738710 | HU58249145 |
| | Ramsness | HU61118716 | |
| | Strandburgh Ness | HU671931 | HU671931 |
| | The Tind to Funzie Bay | HU67439051 | HU66338946 |
| | Upper Trona Mires | HU66749098 | |
| | Urie | HU59749451 | |
| | Uriesetter | HU62329486 | HU59769454 |
| | Wick of Aith to Wick of Houbie | HU64168998 | HU62589052 |
| | Wick of Gruting | HU66159226 | HU65799131 |
| | Wick of Houbie to Krokahellia | HU62589052 | HU61009034 |
| | Woodenbreck 1 | HU64958955 | |
| | Woodenbreck 2 | HU64958875 | |
| | Woodenbreck 3 | HU64858915 | |
| | Woodenbreck 4 | HU64658925 | |
| | Woodenbreck 5 | HU64458945 | |
| | Woodenbreck 6 | HU64658975 | |
| | Woodenbreck 7 | HU64759035 | |
| | Barry Buddon | NO50043213 | |
| Firth of Tay and Eden Estuary | Barry Burn | NO56123393 | |
| | Tentsmuir | NO50562744 | |
| | East Group (including Eilean Mor) | NA727468 | |
| | Eilean A'Ghobha | NA693464 | NA693464 |
| | Eilean Mor | NA726467 | NA726467 |
| | Eilean Mor A-D, F-H | NA727468 | |
| | Eilean Mor E | NA723468 | |
| Flannan Isles | Eilean Tighe | NA728463 | NA728463 |
| | Roareim | NA692467 | |
| | Sgeir Toman | NA724452 | NA724452 |
| | Soray | NA725454 | NA725454 |
| | South Group | NA725455 | NA726452 |
| | West Group | NA687465 | NA694463 |
| Forth Islands | Bass Rock | NT60078733 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|--------------------------------------|-------------------------------------|-----------------------------------|---------------------------------|
| | Craigleith | NT55108697 | |
| | Fidra | NT51158697 | |
| | Inchmickery | NT20608063 | |
| | Isle of May | NT65969907 | |
| | The Lamb | NT53428660 | |
| Foula | Foula | HT95953914 | |
| Fowlsheugh | Fowlsheugh RSPB | NO881798 | NO880817 |
| Glas Eilenan | Glas Eileanan | NM71463996 | |
| Handa | Handa | NC12414767 | |
| | Ayre of Tonga to Tonga Stack | HP58511463 | HP57921494 |
| | Greff to Ayre of Tonga | HP58221399 | HP58511463 |
| | Hermaness | HP610180 | |
| | Hols Hellier to The Lug | HP62731768 | HP63581804 |
| | HP 580129 | HP580129 | |
| | HP 584057 | HP584057 | |
| | HP 584068 | HP584068 | |
| | HP 588094 | HP588094 | |
| Hermaness, Saxa Vord and Valla Field | HP 589042 | HP589042 | |
| rielu | HP 589078 | HP589078 | |
| | HP 590113 | HP590113 | |
| | HP 595132 | HP595132 | |
| | Muckle Flugga | HP60431925 | |
| | Norwick Hevda to Hols Hellier | HP62511713 | HP62731768 |
| | Saxavord | HP627175 | HP633184 |
| | South Geo Brough to Greff | HP57131239 | HP58221399 |
| | The Keen to Norwick Hevda | HP62161547 | HP62511713 |
| | Bakingstone Hill | ND24549242 | |
| | Bay of Creekland | HY26060269 | HY23590538 |
| | Binga Fea | ND27349321 | |
| | Burn of Forse | ND22629417 | |
| | Cairn Hill | ND25759095 | |
| Hoy | Deepdale | HY25400224 | |
| | Enegars | HY20140380 | |
| | Glifters of Lyrawa 1 | ND26179876 | |
| | Glifters Of Pegal - Glifters Of Lyr | ND262988 | |
| | Grutfea | HY18950085 | |
| | Ha Wick | ND250890 | |
| | Hoglinns Water | ND24439150 | |
| | Hoy - Whole Island | ND24839740 | |

| Hoy RSPB Reserve | SPA Name | Site Name | Start Position | End Position |
|--|-----------------------|-----------------------------|-----------------|-----------------|
| HOY10 ND17379911 ND19109884 HOY11 ND19109884 ND20579773 ND20829656 HOY13 ND20829656 ND21009529 ND22309393 HOY14 ND2009529 ND22309393 HOY15 ND23099393 ND23029248 HOY15 ND23699063 ND25158861 HOY16 ND23699063 ND25158861 HOY17 ND23699063 ND25158861 HOY19 ND26418862 ND28148853 HOY19 ND26418862 ND28148853 HOY19 ND26418862 ND28148853 HOY29 HY2850072 HY27700159 HY207700159 HY20700159 HY207700159 HY207700159 HY207700159 HY207700159 HY20700159 HY207700159 HY20 | | | (National Grid) | (National Grid) |
| HOY11 ND19109884 ND20579773 HOY12 ND20579773 ND20829656 HOY13 ND20829656 ND21009529 HOY14 ND21009529 ND22309393 HOY15 ND2309393 ND23029248 HOY16 ND23092948 ND23699063 HOY17 ND23699063 ND25158861 HOY18 ND25158861 ND26418862 HOY19 ND26418862 ND28448853 HOY29 HY28850072 HY27700159 HOY3 HY2710059 HY28060269 HOY3 HY2710059 HY2060269 HOY4 HY21170519 HY2060269 HOY4 HY21170519 HY2070497 HOY5 HY20770497 HY28520483 HOY6 HY20520483 HY19780491 HOY6 HY20520483 HY19780491 HOY7 HY19780491 HY18410310 HOY8 HY18410310 HY17530088 Melsetter Hill ND26308971 Moss of Whitestanes ND20369926 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23759375 Salntess ND2699034 Salntess ND23759375 Salntess ND2699034 Salntess ND277997 Suifea Lochs HY19000165 Stourdale ND177997 Suifea Lochs HY19000165 Suifea Lochs | | Hoy RSPB Reserve | HY215015 | |
| HOY12 | | HOY10 | ND17379911 | ND19109884 |
| HOY13 ND20829656 ND21009529 HOY14 ND21009529 ND22309393 HOY15 ND2309393 ND23029248 HOY16 ND23029248 ND236099063 HOY17 ND23699063 ND25158861 HOY18 ND25158861 ND26418862 HOY19 ND26418862 ND28148853 HOY29 HY28850072 HY27700159 HOY30 HY27700159 HY26060269 HOY4 HY21170519 HY20570497 HOY5 HY20770497 HY20520483 HOY6 HY20770497 HY20820483 HOY6 HY20770497 HY20820483 HOY6 HY208088 HY19780491 HOY7 HY19780491 HY18410310 HOY8 HY18410310 HY17530088 Melsetter Hill ND263088971 HOY8 HY18410310 HY17530088 Melsetter Hill ND26308971 HOY8 HY18410310 HY17530088 ND26308971 HOY8 HY19000165 Saltness ND26990034 Saltn | | HOY11 | ND19109884 | ND20579773 |
| HOY14 | | HOY12 | ND20579773 | ND20829656 |
| HOY15 ND2309393 ND23029248 HOY16 ND23029248 ND23699063 ND23159861 HOY17 ND23699063 ND25158861 HOY18 ND25158861 ND26418862 ND28148853 HOY19 ND26418862 ND28148853 HOY29 HY28850072 HY27700159 HOY30 HY2190580 HY21170519 HOY30 HY2770159 HY26060269 HOY4 HY21170519 HY20770497 HOY5 HY20770497 HOY5 HY20770497 HY20520483 HOY6 HY20520483 HOY6 HY218410310 HY18410310 HOY7 HY19780491 HY18410310 HOY8 HY18410310 HOY8 HY18410310 HY17530088 ND2369926 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23069926 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23759375 Sandy Loch HY219030 Saltness ND26999034 Saltness ND275999034 Saltness ND27599375 Sandy Loch HY219030 Stourdale ND177997 Suifea Lochs HY1900165 Whaness HY250020 HY250020 Hydenss Hydenss | | HOY13 | ND20829656 | ND21009529 |
| HOY16 ND23029248 ND23699063 ND25158861 HOY17 ND23699063 ND25158861 HOY18 ND26418862 ND26418862 HOY19 ND26418862 ND28148853 HOY29 HY28850072 HY27700159 HOY3 HY22190580 HY21770159 HOY30 HY22170519 HY26060269 HOY4 HY21170519 HY26060269 HOY5 HY20770497 HY20520483 HOY6 HY20750493 HY19780491 HOY6 HY20520483 HY19780491 HOY7 HY19780491 HY18410310 HOY7 HY19780491 HY18410310 HOY8 HY18410310 HY17530088 Melsetter Hill ND26308971 Moss of Whitestanes ND20369926 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23759375 Sands Water ND23759375 Sands Water ND23759375 Sandy Loch HY219030 Stourdale ND177997 Suifea Lochs HY19000165 Whaness HY250020 Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray MInspulay NL55008313 Mingulay & Berneray Mingulay NL55008313 Mingulay & Ceann Ear 1 NF64726166 NF64316270 Mingulay & Ceann Ear 2 NF64316270 NF63366098 Ceann Ear 2 NF63366098 NF6386092 NF63366098 NF6336609 | | HOY14 | ND21009529 | ND22309393 |
| HOY17 ND23699063 ND25158861 HOY18 ND25158861 ND26418862 HOY19 ND26418862 ND28148853 HOY29 HY28850072 HY27700159 HOY3 HY22190580 HY21170519 HOY30 HY22170519 HY2606269 HOY4 HY21170519 HY26070497 HOY5 HY20770497 HY20520483 HY19780491 HOY6 HY20520483 HY19780491 HOY7 HY19780491 HY18410310 HOY8 HY18410310 HY17530088 Melsetter Hill ND26308971 Moss of Whitestanes ND20369926 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23999610 Saltness ND26999034 False Sands Water ND23759375 Sandy Loch HY219030 Stourdale ND177997 Suifea Lochs HY19000165 Whaness HY250020 Imperial Docks Leith Docks NT26787725 Loch of Strathbeg Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Mingulay 1 NL55098310 Mingulay 1 NL56008313 Mingulay 2 Ceann Ear 1 NF64316670 NF63366098 Mingulay 3 Ceann Ear 3 NF63366098 NF63986092 Mingulay 4 Ceann Ear 3 NF63366098 NF63986092 Mingulay 6 Ceann Ear 4 NF63366098 NF63366098 NF6386098 NF6386098 Mingulay 1 NL5600860 NF63366098 NF6386098 NF6386098 Mingulay 3 Ceann Ear 4 NF63366098 NF6386098 NF6386098 NF6386098 NF6386098 NF6386098 NF6386098 NF6386098 Mingulay 4 Marwick Head NF63366098 NF6386098 NF6386098 | | HOY15 | ND22309393 | ND23029248 |
| HOY18 | | HOY16 | ND23029248 | ND23699063 |
| HOV19 | | HOY17 | ND23699063 | ND25158861 |
| HOY29 | | HOY18 | ND25158861 | ND26418862 |
| HOY3 | | HOY19 | ND26418862 | ND28148853 |
| HOY30 | | HOY29 | HY28850072 | HY27700159 |
| H0Y4 | | HOY3 | HY22190580 | HY21170519 |
| HOY5 | | HOY30 | HY27700159 | HY26060269 |
| HOY6 | | HOY4 | HY21170519 | HY20770497 |
| HOY7 | | HOY5 | HY20770497 | HY20520483 |
| HOY8 | | HOY6 | HY20520483 | HY19780491 |
| Melsetter Hill ND26308971 Melsetter Hill Moss of Whitestanes ND20369926 ND17379911 Old Man of Hoy to Rora Head HY17530088 ND17379911 Red Hill of Sneuk ND23909610 ND23909610 Saltness ND26999034 ND23759375 Sands Water ND23759375 ND26999034 Sandy Loch HY219030 HY219030 Stourdale ND177997 ND177997 Suifea Lochs HY19000165 HY19000165 Whaness HY250020 HY250020 Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 HY23202620 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray NL55938010 HY23202620 Mingulay & Berneray NL56008313 NF64316270 NF63636247 Monach Islands Ceann Ear 2 NF64316270 NF63636247 NF63636098 Monach Islands Ceann Ear 3 NF6366098 NF63986092 | | HOY7 | HY19780491 | HY18410310 |
| Moss of Whitestanes ND20369926 Old Man of Hoy to Rora Head HY17530088 ND17379911 | | HOY8 | HY18410310 | HY17530088 |
| Old Man of Hoy to Rora Head | | Melsetter Hill | ND26308971 | |
| Red Hill of Sneuk ND23909610 | | Moss of Whitestanes | ND20369926 | |
| Saltness ND26999034 Sands Water ND23759375 Sandy Loch HY219030 Stourdale ND177997 Suifea Lochs HY19000165 Whaness HY250020 | | Old Man of Hoy to Rora Head | HY17530088 | ND17379911 |
| Sands Water ND23759375 Sandy Loch HY219030 Stourdale ND177997 Suifea Lochs HY19000165 Whaness HY250020 | | Red Hill of Sneuk | ND23909610 | |
| Sandy Loch | | Saltness | ND26999034 | |
| Stourdale ND177997 Suifea Lochs HY19000165 Whaness HY250020 Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Berneray1 NL55938010 NL56008313 Ceann Ear 1 NF64726166 NF64316270 NF64316270 Monach Islands Ceann Ear 2 NF64316270 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | | Sands Water | ND23759375 | |
| Suifea Lochs HY19000165 Whaness HY250020 Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray1 NL55938010 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | | Sandy Loch | HY219030 | |
| Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Berneray1 NL55938010 HY23202620 Mingulay1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Monach Islands Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63366098 NF63986092 | | Stourdale | ND177997 | |
| Imperial Docks Leith Docks NT26787725 Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Berneray1 NL55938010 NL56008313 Ceann Ear 1 NF64726166 NF64316270 NF64316270 Ceann Ear 2 NF64316270 NF63636247 NF6366098 Monach Islands Ceann Ear 3 NF63366098 NF63986092 | | Suifea Lochs | HY19000165 | |
| Loch of Strathbeg Loch of Strathbeg NK06675973 Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Berneray1 NL55938010 Mingulay1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | | Whaness | HY250020 | |
| Marwick Heak Marwick Head HY22702440 HY23202620 Mingulay & Berneray Berneray1 NL55938010 Mingulay1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | Imperial Docks | Leith Docks | NT26787725 | |
| Mingulay & Berneray1 NL55938010 Mingulay1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | Loch of Strathbeg | Loch of Strathbeg | NK06675973 | |
| Mingulay 1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | Marwick Heak | Marwick Head | HY22702440 | HY23202620 |
| Mingulay1 NL56008313 Ceann Ear 1 NF64726166 NF64316270 Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | Mingulay & Berneray | Berneray1 | NL55938010 | |
| Ceann Ear 2 NF64316270 NF63636247 Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | winigulay & Defileray | Mingulay1 | NL56008313 | |
| Monach Islands Ceann Ear 3 NF63636247 NF63366098 Ceann Ear 4 NF63366098 NF63986092 | | Ceann Ear 1 | NF64726166 | NF64316270 |
| Ceann Ear 4 NF63366098 NF63986092 | | Ceann Ear 2 | NF64316270 | NF63636247 |
| | Monach Islands | Ceann Ear 3 | NF63636247 | NF63366098 |
| Ceann Ear 5 NF63986092 NF64726166 | | Ceann Ear 4 | NF63366098 | NF63986092 |
| | | Ceann Ear 5 | NF63986092 | NF64726166 |

| CDA Norma | Cita Nama | Start Position | End Position |
|-----------------------------------|---------------------|-----------------|-----------------|
| SPA Name | Site Name | (National Grid) | (National Grid) |
| | Ceann Ear 6 | NF64056205 | |
| | Ceann Ear 7 | NF63656135 | |
| | Ceann Iar 1 | NF62536233 | NF61106212 |
| | Ceann Iar 2 | NF61106212 | NF60986250 |
| | Ceann Iar 3 | NF60986250 | NF61766331 |
| | Ceann Iar 4 | NF61766331 | NF62176324 |
| | Ceann Iar 5 | NF62176324 | NF62536233 |
| | Ceann Iar 6 | NF61526252 | |
| | Shillay | NF59126280 | |
| | Shivinish 1 | NF62636202 | NF62636202 |
| | Shivinish 2 | NF628621 | |
| | Stockay | NF65956317 | |
| Moray and Nairn coast | Tips of Corsemaul | NJ39333968 | |
| | Tom Mor | NJ40393833 | |
| Mousa | Mousa RSPB | HU460240 | |
| | Duncansby Head | ND40327277 | ND40207360 |
| | Dunnet Head 1 | ND21667511 | ND21197636 |
| | Dunnet Head 2 | ND21197636 | ND20587669 |
| | Dunnet Head 3 | ND20587669 | ND19477641 |
| | Dunnet Head 4 | ND19477641 | ND18307452 |
| | Dunnet Head 5 | ND18307452 | ND20697128 |
| | Holburn Head 1 | ND10717073 | ND10937158 |
| | Holburn Head 2 | ND10937158 | ND08337123 |
| North Caithness Cliffs | Holburn Head 3 | ND08337123 | ND07247112 |
| | Melvich 1 | NC93026603 | NC92146563 |
| | Melvich 2 | NC92146563 | NC91606550 |
| | Melvich 3 | NC91606550 | NC89846595 |
| | Sandside Head 1 | NC95726627 | NC94036590 |
| | Sandside Head 2 | NC94036590 | NC93026603 |
| | Skirza Head | ND39386811 | ND39936966 |
| | Stacks of Duncansby | ND39936966 | ND40327277 |
| | Stroma Island | ND355775 | |
| | Balnahard 1 | NR40519932 | NR40899970 |
| | Balnahard 2 | NR40899970 | NM41640026 |
| | Balnahard 3 | NM41640026 | NM42360088 |
| North Colonsay and Western Cliffs | Balnahard 4 | NM42360088 | NM42450088 |
| | Balnahard 5 | NM42450088 | NM42740050 |
| | East Coast 2 | NR42769928 | NR42409864 |
| | East Coast 4 | NR41989804 | NR41599724 |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|------------------------------|----------------------|-----------------------------------|---------------------------------|
| | East Coast 5 | NR41599724 | NR41409699 |
| | East Coast 6 | NR41409699 | NR40989618 |
| | Kiloran Bay - North | NR40349837 | NR40519932 |
| | Pigs Paradise 1 | NR384980 | NR382977 |
| | Pigs Paradise 10 | NR369969 | NR367967 |
| | Pigs Paradise 11 | NR367967 | NR365964 |
| | Pigs Paradise 12 | NR365964 | NR364965 |
| | Pigs Paradise 13 | NR364965 | NR363963 |
| | Pigs Paradise 2 | NR382977 | NR379976 |
| | Pigs Paradise 3 | NR379976 | NR378975 |
| | Pigs Paradise 4 | NR378975 | NR375975 |
| | Pigs Paradise 5 | NR375975 | NR374974 |
| | Pigs Paradise 6 | NR374974 | NR372970 |
| | Pigs Paradise 7 | NR369970 | NR368971 |
| | Pigs Paradise 8 | NR372970 | NR369970 |
| | Pigs Paradise 9 | NR368971 | NR369969 |
| | Uragaig Cliffs | NR395981 | NR383980 |
| North Rona and Sula Sgeir | North Rona | HW81193252 | |
| | Sula Sgeir | HW62083062 | |
| Noss | Noss Whole Island | HU545405 | |
| | Christie's Hole | HU15356075 | |
| | Cullavoe Dale | HU16916133 | |
| | Cullavoe East | HU16926170 | |
| | Gardie North | HU18356125 | |
| | Gardie Water East | HU17056045 | |
| | Hamnavoe North Beach | HU16356055 | |
| | Lamba Ness | HU16656229 | |
| Papa Stour | Little Virda Field | HU15356175 | |
| r apa stoui | Lochs of Aesha | HU15056105 | |
| | Mauns Hill Southwest | HU15856015 | |
| | North Ness East | HU18356175 | |
| | North Ness West | HU17706145 | |
| | Papa Stour | HU160610 | |
| | Quida Ness | HU17056145 | |
| | Robie's Noust | HU17856125 | |
| | The Creed | HU17756175 | |
| Papa Westray (North Hill and | Holm Of Papa Westray | HY506519 | |
| Holm) | North Hill 1 | HY50005555 | |
| , | North Hill 10 | HY506546 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|-------------------------|--------------------------------|-----------------------------------|---------------------------------|
| | North Hill 12 | HY50315497 | |
| | North Hill 13 | HY49795484 | |
| | North Hill 14 | HY49355415 | |
| | North Hill 15 | HY49805418 | |
| | North Hill 16 | HY49325396 | |
| | North Hill 17 | HY49355382 | |
| | North Hill 18 | HY49905483 | |
| | North Hill 2 | HY498555 | |
| | North Hill 2 | HY50775474 | HY49335451 |
| | North Hill 3 | HY49335451 | HY49105378 |
| | North Hill 3 | HY501557 | |
| | North Hill 4 | HY502555 | |
| | North Hill 5 | HY50315525 | |
| | North Hill 6 | HY49995494 | |
| | North Hill 7 | HY50515464 | |
| | North Hill 8 | HY504546 | |
| | Papa Westray - North Hill RSPB | HY499550 | |
| | Papa Westray coast 10 | HY49105378 | HY48765274 |
| | Papa Westray coast 41 | HY50515372 | HY50735443 |
| | Muckle Skerry | ND465783 | |
| Pentland Firth Islands | Pentland Skerries | ND46447849 | |
| | Swona | ND38818438 | |
| Priest Island | Priest Island | NB92740237 | |
| | Fladda | HU37539717 | |
| | Gruney | HU38049681 | |
| | Hyter | HU37479738 | |
| Raman Stacks and Gruney | Ofoora | HU37579729 | |
| | Outer Stack | HU37609785 | |
| | Scordar | HU37449779 | |
| | Turla | HU37479755 | |
| | Brings | HY38003364 | |
| | Faraclett Head 1 | HY449336 | |
| | Faraclett Head 10 | HY440327 | |
| | Faraclett Head 11 | HY436329 | |
| Rousay | Faraclett Head 12 | HY435329 | |
| | Faraclett Head 13 | HY43623267 | |
| | Faraclett Head 16 | HY442331 | |
| | Faraclett Head 17 | HY436333 | |
| | Faraclett Head 2 | HY448337 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|------------------------------|---------------------|-----------------------------------|---------------------------------|
| | Faraclett Head 3 | HY445337 | |
| | Faraclett Head 4 | HY447334 | |
| | Faraclett Head 5 | HY446336 | |
| | Faraclett Head 6 | HY443337 | |
| | Faraclett Head 7 | HY443336 | |
| | Faraclett Head 8 | HY444332 | |
| | Horse Brae | HY38463456 | |
| | Leeon 2 | HY419327 | |
| | Moan | HY38163285 | |
| | Quendal (North) | HY37463314 | |
| | Quendal (South) | HY37073208 | |
| | Rousay 1 | HY371306 | HY363314 |
| | Rousay 10 | HY401335 | HY408328 |
| | Rousay 12 | HY433327 | HY441337 |
| | Rousay 13 | HY441337 | HY448338 |
| | Rousay 14 | HY448338 | HY449333 |
| | Rousay 15 | HY449333 | HY455324 |
| | Rousay 16 | HY455324 | HY449325 |
| | Rousay 17 | HY448324 | HY449280 |
| | Rousay 2 | HY363314 | HY362323 |
| | Rousay 20 | HY382289 | HY371306 |
| | Rousay 3 | HY362323 | HY369330 |
| | Rousay 4 | HY369330 | HY373340 |
| | Rousay 5 | HY373340 | HY382347 |
| | Rousay 6 | HY382347 | HY389350 |
| | Rousay 7 | HY389350 | HY398349 |
| | Rousay 8 | HY398349 | HY401344 |
| | Rousay 9 | HY401344 | HY401335 |
| Rum | Rum | NM36869828 | |
| | Eilean an Taighe | NG421972 | |
| | Eilean Mhuire | NG431986 | |
| Shiant Islands | Galta Beag Group | NG400982 | |
| | Galta Mor Group | NG390984 | |
| | Garbh Eilean | NG41419845 | |
| | Ardivachar Machair | NF74654535 | |
| | Around Daliburgh | NF75352145 | |
| South Uist Machair and Lochs | Howbeg and How More | NF76303530 | NF76303620 |
| | Loch Ardvule | NF71332992 | |
| | Loch Druidbeg | NF79053755 | |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|--------------------------------|---------------------------------------|-----------------------------------|---------------------------------|
| | Loch Fada | NF75523441 | |
| | Loch Grogarry | NF76183932 | |
| | Loch Hallan | NF73862218 | |
| | Loch na Liana Moire | NF73312489 | |
| | Loch nam Balgan | NF76214004 | |
| | Loch Stilligarry | NF76283813 | |
| | Mid Loch Ollay | NF75433154 | |
| | Rubha Ardvule | NF70952995 | |
| | West Loch Ollay | NF74053273 | |
| | Broadhaven to Moorburn Point | NT90756908 | NT89006946 |
| St Abb`s Head to Fast Castle | Fast Castle Head | HY443329 | NT834701 |
| St Abb s Head to Fast Castle | Moorburn Point to Fast Castle | NT89006946 | NT86137113 |
| | St Abb's Head NNR | NT91776765 | NT90756908 |
| | Boreray & Stacs | NA155050 | |
| | Dun | NF10299753 | |
| St Kilda | Hirta | NF09269966 | |
| | Levenish | NF13309667 | |
| | Soay - whole island | NA06420146 | |
| Sula Skarry and Sula Stack | Sule Skerry Whole Island | HX62112445 | |
| Sule Skerry and Sule Stack | Sule Stack1 | HX56221791 | |
| | Compass Head | HU407095 | |
| Complementational | Grutness | HU407102 | |
| Sumburgh Head | Grutness Pier to Greystane Geo | HU405099 | HU409084 |
| | Sumburgh Head | HU405083 | HU409084 |
| | Bac Beag | NM23743776 | |
| | Bac Mor | NM24383900 | |
| | Cairn na Burgh - Manx shearwater | | |
| | count | NM30464493 | NM30464493 |
| | Cairn na Burgh Beg | NM30854502 | |
| | Cairn na Burgh More | NM30584485 | |
| Treshnish Isles | Fladda | NM297437 | |
| | Lunga and Sgeir a' Chaisteil | NM27774192 | |
| | Sgeir An Eirionnaich | NM28504337 | |
| | Sgeir an Fheoir | NM28704323 | |
| | Sgeir na h-Iolaire | NM28934390 | NM28934390 |
| | Sgeirean Na Giusaich 15 | NM28764267 | |
| | Sgeirean Na Giusaich 16 | NM28864276 | |
| Troup, Pennan and Lion's Heads | Troup, Pennan and Lion's Heads SPA | NJ80706554 | NJ88326487 |
| West Westray | West Westray 1 | HY40054955 | HY39235014 |

| SPA Name | Site Name | Start Position (National Grid) | End Position (National Grid) |
|------------------------------------|-----------------|-----------------------------------|---------------------------------|
| | West Westray 2 | HY39235014 | HY40444816 |
| | West Westray 3 | HY40444816 | HY40914789 |
| | West Westray 5 | HY41524734 | HY41944569 |
| | West Westray 6 | HY41944569 | HY41754386 |
| | West Westray 7 | HY41754386 | HY42284368 |
| Ythan Estuary, Sands of Forvie and | | | |
| Meikle Loch | Sands Of Forvie | NK030270 | NK030290 |

4 Species account

Each species account presents a summary of the colony count data coverage at each SPA for which that species is a designated qualifying feature. Data availability is assessed for each species since the last national census and including any data collected prior to the last national census. Where there is sufficient data a trend plot is presented for colonies at each SPA.

4.1 Northern fulmar (Fulmarus glacialis)

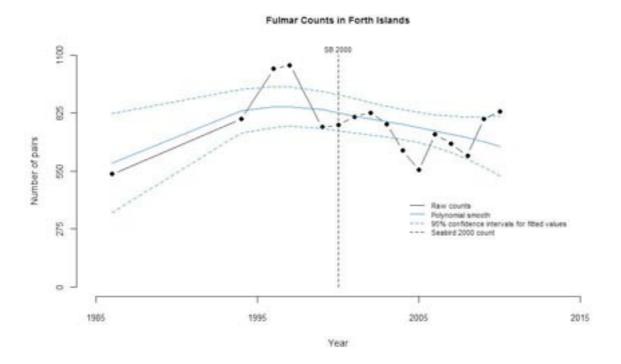
4.1.1 Data availability

Table 4.1. Data availability at northern fulmar SPAs.

| SPA designated for Northern Fulmar | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--|---|---|---|--|
| Buchan Ness to Collieston coast SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |
| Calf of Eday SPA | 1 (0.1) | 1 (0.1) | 0 | 0 |
| Cape Wrath SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Copinsay SPA | 2 (0.15) | 4 (0.19 | 0 | 3 |
| East Caithness Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Fair Isle SPA | 3 (0.25) | 3 (0.25) | 3 | 3 |
| Fetlar SPA | 0 (0) | 3 (0.07) | 0 | 1 |
| Forth Islands SPA | 12 (0.86) | 14 (0.95) | 4 | 12 |
| Flannan Islands SPA | 1 (0.07) | 3 (0.07) | 1 | 1 |
| Foula SPA | 1 (0.08) | 1 (0.08) | 1 | 1 |
| Fowlsheugh SPA | 3 (0.23) | 3 (0.23) | 2 | 2 |
| Handa SPA | 3 (0.25) | 3 (0.25) | 2 | 2 |
| Hermaness, Saxa Vord and Valla Field SPA | 1 (0.08) | 1 (0.08) | 0 | 1 |
| Hoy SPA | 1 (0.08) | 1 (0.15) | 0 | 1 |
| Mingulay and Berneray SPA | 3 (0.21) | 5 (0.29) | 2 | 2 |
| North Caithness Cliffs SPA | 0 (0) | 4 (0.09) | 0 | 3 |
| North Rona and Sula Sgeir SPA | 2 (0.14) | 2 (0.14) | 1 | 1 |
| Noss SPA | 4 (0.29) | 4 (0.29) | 2 | 2 |
| Rousay SPA | 1 (0.08) | 3 (0.16) | 0 | 0 |

| Shiant Islands SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
|-----------------------------------|----------|----------|---|---|
| St Kilda SPA | 1 (0.08) | 2 (0.09) | 0 | 2 |
| Sumburgh Head SPA | 0 (0) | 3 (0.14) | 0 | 1 |
| Troup, Pennan and Lions Heads SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |
| West Westray SPA | 3 (0.23) | 4 (0.24) | 0 | 3 |

4.1.2 Trends



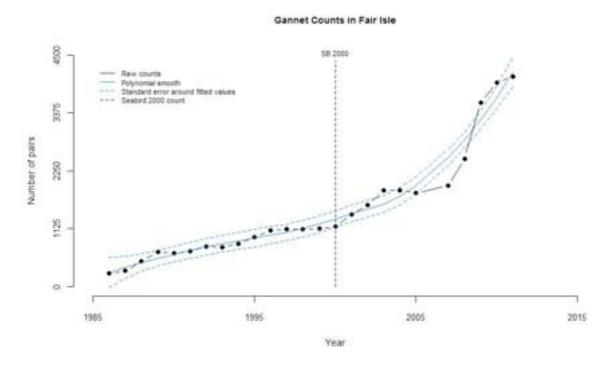
4.2 Northern gannet (Morus bassanus)

4.2.1 Data availability

Table 4.2. Data availability at northern gannet SPAs.

| Table 4.2. Data availability at northern gann | et SPAs. | | | |
|---|---|---|---|--|
| SPA designated for Northern Gannet | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
| Ailsa Craig SPA | 2 (0.15) | 2 (0.15) | 0 | 3 |
| Fair Isle SPA | 12 (0.86) | 12 (0.86) | 13 | 13 |
| Forth Islands SPA | 3 (0.23) | 3 (0.23) | 3 | 3 |
| Hermaness, Saxa Vord and Valla Field SPA | 3 (0.23) | 3 (0.23) | 4 | 4 |
| North Rona and Sula Sgeir SPA | 2 (0.15) | 2 (0.15) | 2 | 2 |
| Noss SPA | 3 (0.23) | 3 (0.23) | 3 | 3 |
| St Kilda SPA | 1 (0.13) | 1 (0.25) | 2 | 2 |
| Sule Skerry and Sule Stack SPA | 1 (0.08) | 5 (0.09) | 0 | 2 |

4.2.2 Trends



4.3 Leach's storm petrel (Oceanodroma leucorhoa)

4.3.1 Data availability

Table 4.3. Data availability at Leach's storm petrel SPAs.

| Table 4.5. Data availability at Leach 5 Storm | petiei sras. | | | |
|---|---|---|---|--|
| SPA designated for Leach's Storm Petrel | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
| Flannan Islands SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Foula SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| North Rona and Sula Sgeir SPA | 2 (0.18) | 2 (0.18) | 0 | 0 |
| Ramna Stacks and Gruney SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| St Kilda SPA | No Data | No Data | No Data | No Data |
| Sule Skerry and Sule Stack SPA | No Data | No Data | No Data | No Data |

Due to insufficient data coverage no trends have been plotted for Leach's storm petrel.

4.4 European storm petrel (*Hydrobates pelagicus*)

4.4.1 Data availability

Table 4.4. Data availability at European storm petrel SPAs.

| SPA designated for European Storm Petrel | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|---|--|---|---|--|
| Auskerry SPA | 3 (0.27) | 3 (0.27) | 0 | 0 |
| Mousa SPA | 1 (0.25) | 1 (0.25) | 1 | 1 |
| North Rona and Sula Sgeir SPA | 1 (0.09) | 1 (0.09) | 0 | 0 |
| Priest Island SPA | 2 (0.15) | 2 (0.15) | 0 | 0 |
| C. KILL CO. | 4 (0.00) | 1 (0.00) | 0 | 0 |
| St Kilda SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |

Due to insufficient data coverage no trends have been plotted for European storm petrel.

4.5 Manx shearwater (Puffinus puffinus)

4.5.1 Data availability

Table 4.5. Data availability at Manx shearwater SPAs.

| SPA designated for Manx Shearwater | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since \$2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|------------------------------------|--|--|---|--|
| Rum SPA | 1 (0.09) | 1 (0.09) | 0 | 0 |
| St Kilda SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |

Due to insufficient data coverage no trends have been plotted for Manx shearwater.

4.6 Great cormorant (Phalacrocorax carbo)

4.6.1 Data availability

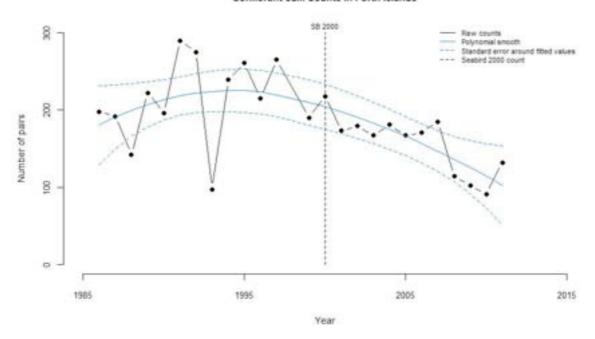
Table 4.6. Data availability at great cormorant SPAs.

| SPA designated for Great Cormorant | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since \$2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|------------------------------------|--|--|--|--|
| Calf of Eday | 3 (0.25) | 3 (0.25) | 2 | 2 |
| East Caithness Cliffs | 0 (0) | 12 (0.66) | 0 | 10 |
| Firth of Forth Islands | 5 (0.36) | 9 (0.70) | 0 | 12 |

Four count sites have been surveyed since 2000 for cormorant. Of these four sites cormorants were recorded regualarly at Craig Leith and the Lamb. No cormorants have been observed at Bass Rock and at Inchmickery five pairs were observed in 2002 but have not been recorded there since. For the purposes of identifying a trend in population since 1986 when surveys began Bass Rock and Inchmickery have both been excluded from the analysis.

4.6.2 Trends

Cormorant Sum Counts in Forth Islands



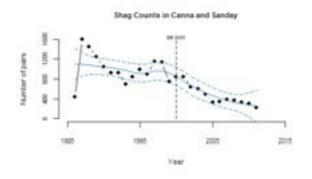
4.7 European shag (Phalacrocorax aristotelis)

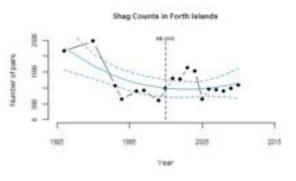
4.7.1 Data availability

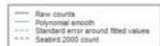
Table 4.7. Data availability of Euopean shag SPAs.

| SPA designated for European Shag | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before \$2K including years with only some count sites recorded. |
|-------------------------------------|---|---|---|---|
| Buchan Ness to Collieston coast SPA | 3 (0.27) | 3 (0.27) | 2 | 2 |
| Canna and Sanday SPA | 14 (1.0) | 14 (1.0) | 12 | 12 |
| East Caithness Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Fair Isle SPA | 4 (0.29) | 4 (0.29) | 12 | 12 |
| Forth Islands SPA | 12 (0.86) | 14 (0.95) | 6 | 12 |
| Foula SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Mingulay and Berneray SPA | 3 (0.21) | 5 (0.29) | 2 | 2 |
| Shiant Islands SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| St Abb's Head to Fast Castle SPA | 1 (0.07) | 14 (0.38) | 0 | 12 |
| Sule Skerry and Sule Stack SPA | 3 (0.21) | 3 (0.21) | 2 | 2 |

4.7.2 Trends







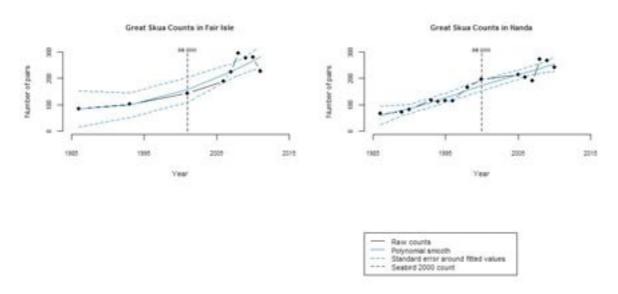
4.8 Great skua (Stercorarius skua)

4.8.1 Data availability

Table 4.8. Data availability at great skua SPAs.

| Table 4.8. Data availability at great skua SPAS. | | | | | |
|--|--|---|---|--|--|
| SPA designated for Great Skua | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. | |
| Fair Isle SPA | 7 (0.64) | 7 (0.64) | 2 | 2 | |
| Fetlar SPA | 0 (0) | 1 (0.08) | 0 | 2 | |
| Foula SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Handa SPA | 8 (0.57) | 8 (0.57) | 7 | 7 | |
| Hermaness, Saxa Vord and Valla Field SPA | 0 (0) | 3 (0.10) | 0 | 1 | |
| Hoy SPA | 2 (0.17) | 2 (0.17) | 2 | 2 | |
| Noss SPA | 2 (0.18) | 2 (0.18) | 0 | 0 | |
| St Kilda SPA | 1 (0.08) | 1 (0.08) | 3 | 3 | |

4.8.2 Trends



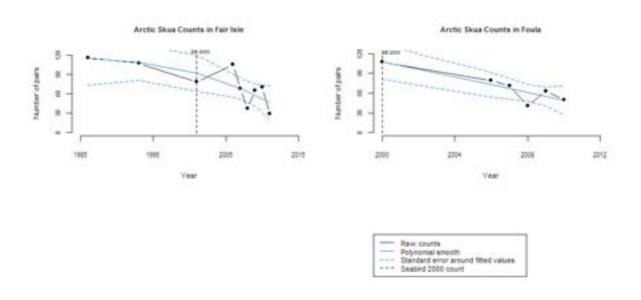
4.9 Arctic skua (Stercorarius parasiticus)

4.9.1 Data availability

Table 4.9. Data availability at Arctic skua SPAs.

| SPA designated for Arctic Skua | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--------------------------------|---|---|---|--|
| Fair Isle SPA | 7 (0.64) | 7 (0.64) | 2 | 2 |
| Fetlar SPA | 1 (0.09) | 3 (0.11) | 0 | 2 |
| Foula SPA | 6 (0.50) | 6 (0.50) | 0 | 0 |
| Hoy SPA | 1 (0.08) | 4 (0.21) | 0 | 2 |
| Papa Westray SPA | 2 (0.17) | 6 (0.33) | 1 | 4 |
| Rousay SPA | 2 (0.17) | 2 (0.17) | 0 | 0 |
| West Westray SPA | 1 (0.20) | 1 (0.20) | 0 | 0 |

4.9.2 Trends



4.10 Lesser black-backed gull (*Larus fuscus*)

4.10.1 Data availability

Table 4.10. Data availability at lesser black-backed gull SPAs.

| SPA designated for Lesser Black-backed Gull | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--|--|---|---|--|
| Ailsa Craig SPA | 3 (0.27) | 3 (0.27) | 0 | 0 |
| Fair Isle SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |
| Forth Islands SPA | 1 (0.07) | 14 (0.57) | 2 | 12 |

Due to insufficient data coverage no trends have been plotted for lesser blackbacked gull.

4.11 Herring gull (*Larus argentatus*)

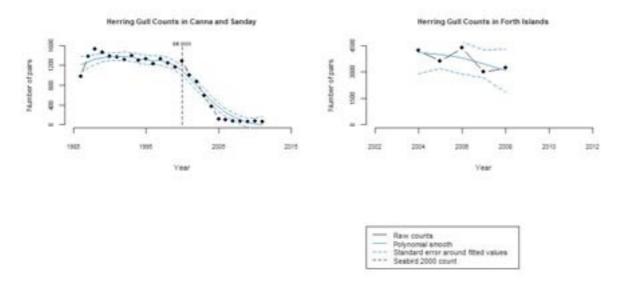
4.11.1 Data availability

Table 4.11. Data availability at herring gull SPAs.

| SPA designated for Herring Gull | A = 5. TH | Number of years data since \$2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|-------------------------------------|-----------|--|---|--|
| Ailsa Craig SPA | 3 (0.27) | 3 (0.27) | 0 | 0 |
| Buchan Ness to Collieston coast SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |
| Canna and Sanday SPA | 14 (1.0) | 14 (1.0) | 12 | 12 |
| East Caithness Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Forth Islands SPA | 1 (0.07) | 13 (0.63) | 2 | 12 |
| Fowlsheugh SPA | 4 (0.31) | 4 (0.31) | 2 | 2 |
| St Abb's Head to Fast Castle SPA | 1 (0.07) | 14 (0.38) | 0 | 12 |
| Troup, Pennan and Lions Heads SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |

Count sites at each of the islands within the Forth Islands SPA have not been recorded consistently since the Seabird 2000 national census. During collation of the raw counts five counts of the entire SPA colony at the SPA wide scale conducted separately from 2004 – 2008 were acquired from the Forth Seabird Group; these five counts have been used to identify any trends in the data over this period as they provide a more consistent data set than the SMP collected data.

4.11.2 Trends



4.12 Great Black-Backed Gull (Larus marinus)

4.12.1 Data availability

Table 4.12. Data availability at great black-backed gull SPAs.

| SPA designated for Great Black-backed | 10 10 10 | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|---------------------------------------|----------|---|---|--|
| Calf of Eday SPA | 0 (0) | 2 (0.13) | 0 | 2 |
| Copinsay SPA | 2 (0.15) | 3 (0.29) | 0 | 0 |
| East Caithness Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Hoy SPA | 0 (0) | 9 (0.11) | 0 | 4 |
| North Rona and Sula Sgeir SPA | 1 (0.07) | 2 (0.14) | 1 | 3 |

Due to insufficient data coverage no trends have been plotted for great black-backed gull.

4.13 Black-Legged Kittiwake (Rissa tridactyla)

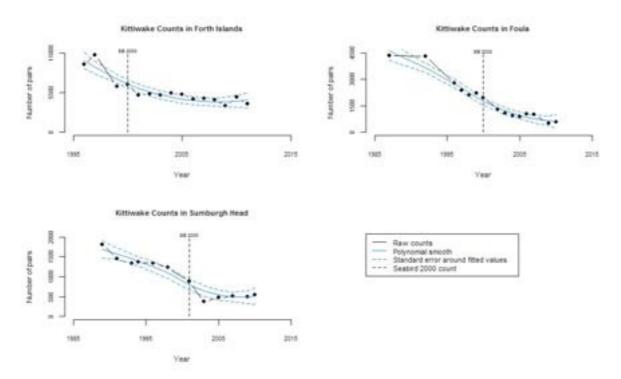
4.13.1 Data availability

Table 4.13. Data availability at black-legged kittiwake SPAs.

| SPA designated for Black-legged Kittiwake | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since \$2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|---|--|--|---|--|
| Ailsa Craig SPA | 3 (0.27) | 3 (0.27) | 0 | 0 |
| Buchan Ness to Collieston Coast SPA | 3 (0.27) | 3 (0.27) | 2 | 2 |
| Calf of Eday SPA | 2 (0.20) | 2 (0.20) | 0 | 0 |
| Cape Wrath | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Copinsay | 2 (0.15) | 3 (0.17) | 0 | 1 |
| East Caithness | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Fair Isle | 4 (0.33) | 4 (0.33) | 4 | 4 |
| Flannan Island SPA | 1 (0.07) | 1 (0.07) | 1 | 1 |
| Forth Islands | 5 (0.36) | 14 (0.86) | 0 | 12 |
| Foula SPA | 11 (0.79) | 11 (0.79) | 4 | 4 |
| Fowlsheugh SPA | 3 (0.23) | 3 (0.23) | 3 | 3 |
| Handa SPA | 3 (0.21) | 3 (0.21) | 1 | 1 |
| Hoy SPA | 2 (0.15) | 2 (0.15) | 0 | 0 |
| Marwick Head SPA | 4 (0.31) | 4 (0.31) | 4 | 4 |
| Mingulay and Berneray SPA | 3 (0.21) | 5 (0.29) | 2 | 2 |
| North Caithness Cliffs SPA | 0 (0) | 3 (0.08) | 0 | 0 |
| North Colonsay and Western Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 1 |
| North Rona and Sula Sgeir | 1 (0.07) | 4 (0.21) | 1 | 2 |
| Noss SPA | 4 (0.29) | 4 (0.29) | 4 | 4 |
| Rousay SPA | 2 (0.15) | 2 (0.15) | 0 | 0 |
| Rum SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| St Abb's Head to Fast Castle SPA | 1 (0.07) | 13 (0.38) | 0 | 12 |
| St Kilda SPA | 3 (0.23) | 3 (0.23) | 0 | 12 |
| Sumburgh Head SPA | 7 (0.50) | 9 (0.57) | 5 | 7 |
| Shiant Islands SPA | 2 (0.15) | 2 (0.15) | 1 | 1 |
| Troup, Pennan and Lion's Head SPA | 3 (0.27) | 3 (0.27) | 2 | 2 |
| West Westray SPA | 2 (0.15) | 3 (0.17) | 0 | 3 |

During and since the Seabird 2000 census the Inchmickery count site within the Firth of Forth Islands SPA has been surveyed five times. No kittiwakes have ever been recorded at this site and as such surveys where this site was not observed are considered to be a survey of the full Firth of Forth Islands SPA colony.

4.13.2 Trends



4.14 Little Tern (Sterna albifrons)

4.14.1 Data availability

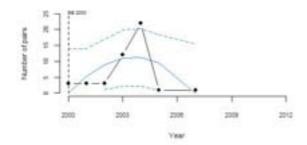
Table 4.14. Data availability at little tern SPAs.

| SPA designated for Little Term | 10 = 0 = | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before \$2K including years with only some count sites recorded. |
|---|----------|---|--|---|
| Firth of Tay & Eden Estuary SPA | 2 (0.14) | 8 (0.50) | 1 | 17 |
| Monach Islands SPA | 1 (0.09) | 1 (0.09) | 6 | 6 |
| South Uist Machair and Lochs SPA | 0 (0) | 1 (0.05) | 0 | 0 |
| Ythan Estuary, Sands of Forvie and Meikle Loch SPA | 14 (1.0) | 14 (1.0) | 30 | 30 |

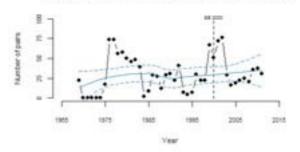
Little terns have been recorded at four count sites within the Firth of Tay and Eden Estuary SPA historically: Eden Estuary, Barry Burn, Tentsmuir and Barry Buddon. However, since the Seabird 2000 census breeding pairs were only observed at the Eden Estuary count site. At Barry Burn, Tenstmuir and Barry Buddon no terns have been recorded since 1997, 1987 and 1994 respectively. The trend line plotted for Little Tern at this site incorporates data from the Eden Estuary count site since 2000 and may not reflect the population trend across the entire SPA.

4.14.2 Trends





Little Tern Counts in Ythan Estuary, Sands of Forvie and Miekle Loch





4.15 Common Tern (Sterna hirundo)

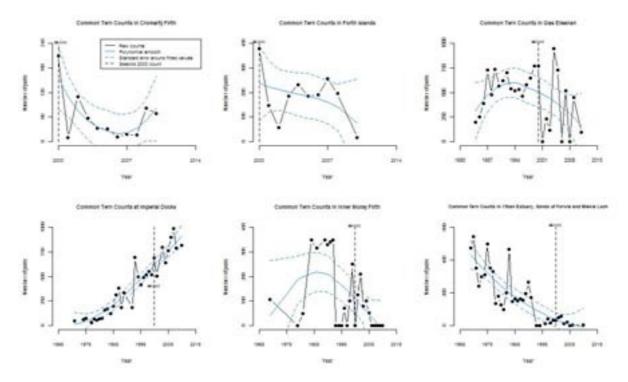
4.15.1 Data availability

Table 4.15. Data availability at common tern SPA's.

| SPA designated for Common Tern | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--|---|---|---|--|
| Cromarty Firth SPA | 11 (0.79) | 13 (0.52) | 0 | 13 |
| Forth Islands SPA | 0 (0) | 14 (0.57) | 0 | 29 |
| Glas Eileanan SPA | 13 (0.93) | 13 (0.93) | 14 | 14 |
| Imperial Docks SPA | 11 (0.79) | 11 (0.79) | 22 | 22 |
| Inner Moray Firth SPA | 13 (0.93) | 13 (0.93) | 14 | 14 |
| Monach Islands SPA | 1 (0.09) | 1 (0.09) | 0 | 0 |
| Ythan Estuary, Sands of Forvie and Meikle Loch SPA | 10 (0.71) | 10 (0.71) | 27 | 27 |

The Firth of Forth Island SPA common tern colony counts have been collected at five count sites historically: Bass Rock, Inchmickery, Fidra, Isle of May and Long Craig. Bass Rock has only been surveyed once in 2007 and no pairs were observed so this was excluded from further analysis. No birds have been observed at Inchmickery and Fidra since 1998 and 1994 respectively. For the purposes of identifying a population trend raw counts at Isle of May and Long Craig have been plotted since 2000.

4.15.2 Trends



4.16 Arctic Tern (Sterna paradisaea)

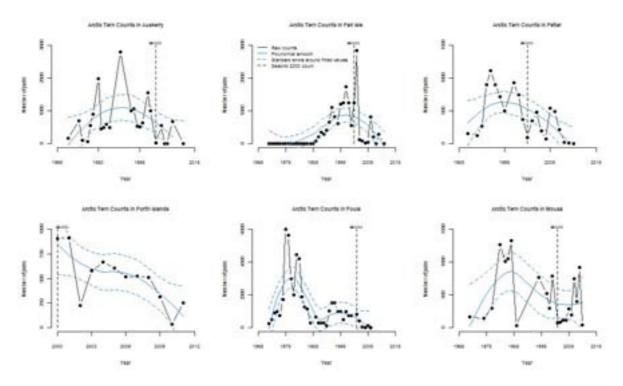
4.16.1 Data availability

Table 4.16. Data availability at Arctic tern SPAs.

| SPA designated for Arctic Tern | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--------------------------------|--|---|---|--|
| Auskerry SPA | 8 (0.57) | 8 (0.57) | 17 | 17 |
| Fair Isle SPA | 13 (0.93) | 13 (0.93) | 29 | 29 |
| Fetlar SPA | 13 (0.93) | 13 (0.93) | 9 | 9 |
| Forth Islands SPA | 0 (0) | 14 (0.41) | 0 | 29 |
| Foula SPA | 8 (0.57) | 8 (0.57) | 28 | 28 |
| Mousa SPA | 12 (0.86) | 12 (0.86) | 10 | 10 |
| Papa Stour SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Papa Westray SPA | 4 (0.29) | 13 (0.61) | 0 | 24 |
| Pentland Firth Islands SPA | 3 (0.38) | 4 (0.44) | 0 | 17 |
| Rousay SPA | 0 (0) | 0 (0) | 1 | 1 |
| Sumburgh Head SPA | No Data | No Data | No Data | No Data |
| West Westray SPA | No Data | No Data | No Data | No Data |

Historically Arctic tern colony counts have been undertaken at four count sites: Bass Rock, Fidra, Inchmickery and Isle of May. However, no pairs have been recorded at any count sites since the Seabird 2000 census although not all count sites have been surveyed every year. Consequently the trend line plotted for Arctic terns uses data from the Isle of May count site only collected from 2000.

4.16.2 Trends



4.17 Roseate Tern (Sterna dougallii)

4.17.1 Data availability

Table 4.17. Data availability at Roseate tern SPAs.

| SPA designated for Roseate Tern | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before 52K including years with only some count sites recorded. |
|---------------------------------|---|---|---|--|
| Forth Islands SPA | No Data | No Data | No Data | No Data |

Due to insufficient data coverage no trends have been plotted for Roseate tern.

4.18 Sandwich tern (Sterna sandvicensis)

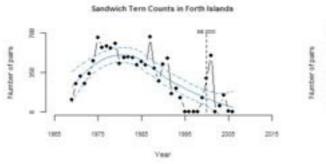
4.18.1 Data availability

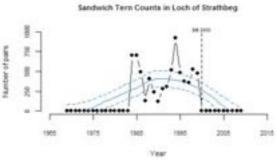
Table 4.18 Data availability at Sandwich tern SPAs.

| SPA designated for Sandwich Tern | Number of years data since \$2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of y ears data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|---|--|---|--|--|
| Forth Islands SPA | 9 (0.64) | 12 (0.75) | 29 | 29 |
| Loch of Strathbeg SPA | 12 (0.86) | 12 (0.86) | 29 | 29 |
| Ythan Estuary, Sands of Forvie and Miekle Loch SPA | 13 (0.93) | 13 (0.93) | 30 | 30 |

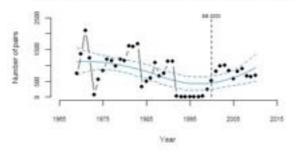
The Firth of Forth Island Sandwich tern population has been recorded at four count sites historically: Fidra, Inchmickery, Isle of May and Long Craig. In recent years few pairs have been observed at any of these sites and in 2007, 2008 and 2010 not all count sites were observed. Furthermore, since 2006 only one nesting pair has been observed at any count sites. To identify any trends in population only data collected between 1969 and 2005 has been plotted.

4.18.2 Trends











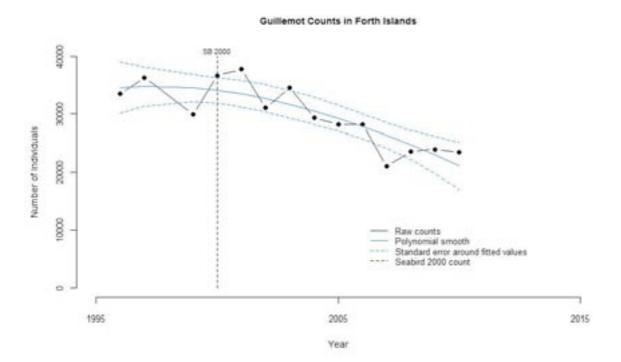
4.19 Guillemot (*Uria aalge*)

4.19.1 Data availability

| Table 4.19. Data availability at Guillemot SPAs. | | | | | |
|--|---|--|--|--|--|
| SPA designated for Guillemot | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since \$2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. | |
| Ailsa Craig SPA | 3 (0.27) | 3 (0.27) | 0 | 0 | |
| Buchan Ness to Collieston Coast SPA | 2 (0.18) | 2 (0.18) | 2 | 2 | |
| Calf of Eday SPA | 2 (0.2) | 2 (0.2) | 0 | 0 | |
| Canna and Sanday SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Cape Wrath SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Copinsay SPA | 3(0.23) | 3 (0.23) | 1 | 1 | |
| East Caithness Cliffs SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Fair Isle SPA | 3 (0.23) | 3 (0.23) | 1 | 1 | |
| Forth Islands SPA | 12 (0.86) | 14 (0.96) | 2 | 11 | |
| Flannan Islands SPA | 1 (0.07) | 1 (0.07) | 1 | 1 | |
| Foula SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Fowlsheugh SPA | 3 (0.23) | 3 (0.23) | 2 | 2 | |
| Handa SPA | 4 (0.29) | 4 (0.29) | 2 | 2 | |
| Hermaness, Saxa Vord and Valla Field SPA | 0 (0) | 4 (0.10) | 0 | 5 | |
| Hoy SPA | 2 (0.15) | 2 (0.15) | 0 | 0 | |
| Marwick Head SPA | 3 (0.23) | 3 (0.23) | 2 | 2 | |
| Mingulay and Berneray SPA | 3 (0.21) | 5 (0.29) | 1 | 2 | |
| North Caithness Cliffs SPA | 0 (0) | 3 (0.08) | 0 | 2 | |
| North Colonsay and Western Cliffs SPA | 1 (0.07) | 4 (0.09) | 0 | 2 | |
| North Rona and Sula Sgeir SPA | 1 (0.07) | 1 (0.11) | 1 | 2 | |
| Noss SPA | 4 (0.36) | 4 (0.36) | 3 | 3 | |
| Rousay SPA | 1 (0.08) | 3 (0.15) | 0 | 0 | |
| Rum SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Shiant Isles SPA | 2 (0.15) | 2 (0.15) | 0 | 0 | |
| St Abb's Head to Fast Castle SPA | 0 (0) | 4 (0.12) | 0 | 6 | |
| St Kilda SPA | 1 (0.08) | 1 (0.08) | 0 | 1 | |

| Sule Skerry and Sule Stack SPA | 1 (0.07) | 2 (0.11) | 1 | 2 |
|-----------------------------------|----------|----------|---|---|
| Sumburgh Head SPA | 0 (0) | 4 (0.18) | 0 | 6 |
| Troup, Pennan and Lions Heads SPA | 2 (0.18) | 2 (0.18) | 2 | 2 |
| West Westray SPA | 2 (0.15) | 3 (0.17) | 0 | 3 |

4.19.2 Trends



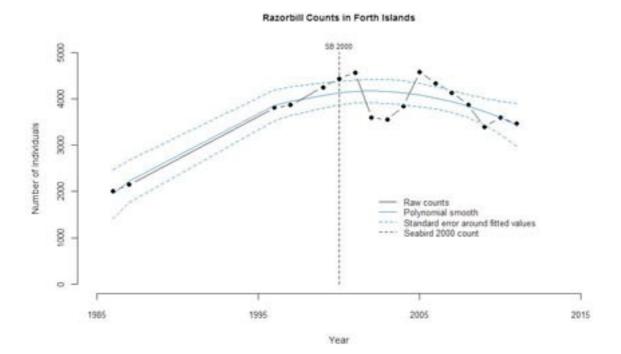
4.20 Razorbill (Alca torda)

4.20.1 Data availability

Table 4.20. Data availability at Razorbill SPAs.

| Table 4.20. Data availability at Razorbill SPAs. | | | | | |
|--|---|---|---|--|--|
| SPA designated for Razorbill | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. | |
| Cape Wrath SPA | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| East Caithness Cliffs | 1 (0.08) | 1 (0.08) | 0 | 0 | |
| Fair Isle SPA | 4 (0.29) | 4 (0.29) | 3 | 3 | |
| Forth Islands SPA | 13 (0.93) | 14 (0.96) | 4 | 13 | |
| Flannan Islands SPA | 1 (0.07) | 1 (0.07) | 1 | 1 | |
| Foula SPA | 1 (0.08) | 1 (0.08) | 1 | 1 | |
| Fowlsheugh SPA | 3 (0.23) | 3 (0.23) | 2 | 2 | |
| Handa SPA | 3 (0.27) | 3 (0.27) | 2 | 2 | |
| Mingulay and Berneray SPA | 3 (0.21) | 5 (0.29) | 1 | 2 | |
| North Caithness Cliffs SPA | 0 (0) | 3 (0.08) | 0 | 0 | |
| North Rona and Sula Sgeir SPA | 1 (0.07) | 2 (0.11) | 1 | 2 | |
| Shiant Islands SPA | 2 (0.15) | 2 (0.15) | 0 | 0 | |
| St Abb's Head to Fast Castle SPA | 0 (0) | 4 (0.12) | 0 | 6 | |
| St Kilda SPA | 1 (0.08) | 1 (0.08) | 0 | 3 | |
| Troup, Pennan and Lions Heads SPA | 2 (0.18) | 2 (0.18) | 2 | 2 | |
| West Westray SPA | 2 (0.15) | 3 (0.17) | 0 | 0 | |

4.20.2 Trends



4.21 Atlantic puffin (Fratercula arctica)

4.21.1 Data availability

Table 4.12. Data availability at Atlantic Puffin SPAs.

| SPA designated for Atlantic Puffin | Number of years data since S2k for all count sites. Parenthesis () indicates proportion of total possible counts. | Number of years data since S2k including years with only some count sites recorded. Parenthesis () indicates proportion of total possible counts. | Number of years data before S2K when all count sites were recorded. | Number of years data before S2K including years with only some count sites recorded. |
|--|---|---|---|--|
| Canna and Sanday SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Cape Wrath SPA | No data | No data | No data | No data |
| East Caithess Cliffs SPA | 1 (0.08) | 1 (0.08) | 1 | 1 |
| Fair Isle SPA | 4 (0.33) | 4 (0.33) | 3 | 3 |
| Forth Islands SPA | 0 (0) | 6 (0.17) | 0 | 5 |
| Flannan Islands SPA | 0 (0) | 2 (0.04) | 0 | 1 |
| Foula SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| Hermaness, Saxa Vord and Valla Field SPA | 2 (0.15) | 2 (0.15) | 3 | 3 |
| Hoy SPA | No data | No data | No data | No data |
| Mingulay and Berneray SPA | 2 (0.14) | 5 (0.25) | 0 | 0 |
| North Caithness Cliffs SPA | 0 (0) | 2 (0.08) | 0 | 0 |
| North Rona and Sula Sgeir SPA | 0 (0) | 1 (0.07) | 0 | 1 |
| Noss SPA | 3 (0.23) | 3 (0.23) | 1 | 1 |
| Shiant Islands SPA | 1 (0.08) | 1 (0.08) | 0 | 0 |
| St Kilda SPA | 0 (0) | 2 (0.08) | 0 | 2 |
| Sule Skerry and Sule Stack SPA | 1 (0.07) | 1 (0.07) | 2 | 2 |

Due to insufficient data coverage no trends have been plotted for Atlantic puffin.



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