

Information Sheet on Ramsar Wetlands (RIS)

Categories approved by Recommendation 4.7 (1990), as amended by Resolution VIII.13 of the 8th Conference of the Contracting Parties (2002) and Resolutions IX.1 Annex B, IX.6, IX.21 and IX. 22 of the 9th Conference of the Contracting Parties (2005).

Notes for compilers:

1. The RIS should be completed in accordance with the attached *Explanatory Notes and Guidelines for completing the Information Sheet on Ramsar Wetlands*. Compilers are strongly advised to read this guidance before filling in the RIS.
2. Further information and guidance in support of Ramsar site designations are provided in the *Strategic Framework for the future development of the List of Wetlands of International Importance* (Ramsar Wise Use Handbook 7, 2nd edition, as amended by COP9 Resolution IX.1 Annex B). A 3rd edition of the Handbook, incorporating these amendments, is in preparation and will be available in 2006.
3. Once completed, the RIS (and accompanying map(s)) should be submitted to the Ramsar Secretariat. Compilers should provide an electronic (MS Word) copy of the RIS and, where possible, digital copies of all maps.

1. Name and address of the compiler of this form:

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Designation date

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Site Reference Number

2. Date this sheet was completed/updated:

Designated: 27 November 1995

3. Country:

UK (Scotland)

4. Name of the Ramsar site:

Loch of Strathbeg

5. Designation of new Ramsar site or update of existing site:

This RIS is for: Updated information on an existing Ramsar site

6. For RIS updates only, changes to the site since its designation or earlier update:

a) Site boundary and area:

** Important note: If the boundary and/or area of the designated site is being restricted/reduced, the Contracting Party should have followed the procedures established by the Conference of the Parties in the Annex to COP9 Resolution IX.6 and provided a report in line with paragraph 28 of that Annex, prior to the submission of an updated RIS.

b) Describe briefly any major changes to the ecological character of the Ramsar site, including in the application of the Criteria, since the previous RIS for the site:

7. Map of site included:

Refer to Annex III of the *Explanatory Notes and Guidelines*, for detailed guidance on provision of suitable maps, including digital maps.

a) A map of the site, with clearly delineated boundaries, is included as:

- i) **hard copy** (required for inclusion of site in the Ramsar List): *yes* ✓ -or- *no* ☐;
- ii) **an electronic format** (e.g. a JPEG or ArcView image) *Yes*
- iii) **a GIS file providing geo-referenced site boundary vectors and attribute tables** *yes* ✓ -or- *no* ☐;

b) Describe briefly the type of boundary delineation applied:

e.g. the boundary is the same as an existing protected area (nature reserve, national park etc.), or follows a catchment boundary, or follows a geopolitical boundary such as a local government jurisdiction, follows physical boundaries such as roads, follows the shoreline of a waterbody, etc.

The site boundary is the same as, or falls within, an existing protected area.

For precise boundary details, please refer to paper map provided at designation

8. Geographical coordinates (latitude/longitude):

57 37 24 N 01 53 00 W

9. General location:

Include in which part of the country and which large administrative region(s), and the location of the nearest large town.

Nearest town/city: Fraserburgh

Situated inland from Rattray Head, the north-east point of the Buchan coast, 13 km south of Fraserburgh on the east coast of Scotland.

Administrative region: Aberdeenshire

10. Elevation (average and/or max. & min.) (metres): **11. Area** (hectares): 615.94

Min.	0
Max.	16
Mean	5

12. General overview of the site:

Provide a short paragraph giving a summary description of the principal ecological characteristics and importance of the wetland.

This is a shallow naturally eutrophic loch with adjoining reedbeds, freshwater marshes, and alder and willow carr. The calcareous dunes and dune slacks within this site are relatively undisturbed and contain a rich flora. The diversity of plant communities supports a correspondingly diverse invertebrate fauna.

The loch constitutes the largest dune slack pool in Britain (200 ha) and the largest water body in the north-east Scottish lowlands. It is separated from the sea by a dune system 0.5-1 km wide.

This site provides wintering habitat for a number of important wetland bird species, particularly wildfowl, and is also an important staging area for migratory wildfowl from Scandinavia and Iceland/Greenland.

13. Ramsar Criteria:

Circle or underline each Criterion applied to the designation of the Ramsar site. See Annex II of the *Explanatory Notes and Guidelines* for the Criteria and guidelines for their application (adopted by Resolution VII.11).

1, 5, 6

14. Justification for the application of each Criterion listed in 13 above:

Provide justification for each Criterion in turn, clearly identifying to which Criterion the justification applies (see Annex II for guidance on acceptable forms of justification).

Ramsar criterion 1

The loch constitutes the largest dune slack pool in Britain and the largest water body in the north-east Scottish lowlands and is one of very few naturally eutrophic lochs of the size in the region.

Ramsar criterion 5

Assemblages of international importance:

Species with peak counts in winter:

47841 waterfowl (5 year peak mean 1998/99-2002/2003)

Ramsar criterion 6 – species/populations occurring at levels of international importance.

Qualifying Species/populations (as identified at designation):

Species with peak counts in spring/autumn:

Pink-footed goose , <i>Anser brachyrhynchus</i> , Greenland, Iceland/UK	34797 individuals, representing an average of 14.4% of the population (5 year peak mean 1998/9-2002/3)
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Species with peak counts in winter:

Whooper swan , <i>Cygnus cygnus</i> , Iceland/UK/Ireland	290 individuals, representing an average of 1.3% of the population (5 year peak mean 1998/9-2002/3)
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Greylag goose , <i>Anser anser anser</i> , Iceland/UK, Ireland	560 individuals, representing an average of 0.6% of the GB population (5 year peak mean for 1995/6-1999/2000)
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Species/populations identified subsequent to designation for possible future consideration under criterion 6.

Species with peak counts in winter:

Barnacle goose , <i>Branta leucopsis</i> , Greenland/Ireland, UK	3418 individuals, representing an average of 6.3% of the population (3418)
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Contemporary data and information on waterbird trends at this site and their regional (sub-national) and national contexts can be found in the Wetland Bird Survey report, which is updated annually. See www.bto.org/survey/webs/webs-alerts-index.htm.

Details of bird species occurring at levels of National importance are given in Section 22

15. Biogeography (required when Criteria 1 and/or 3 and /or certain applications of Criterion 2 are applied to the designation):

Name the relevant biogeographic region that includes the Ramsar site, and identify the biogeographic regionalisation system that has been applied.

a) biogeographic region:

Atlantic

b) biogeographic regionalisation scheme (include reference citation):

Council Directive 92/43/EEC

16. Physical features of the site:

Describe, as appropriate, the geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth, water permanence; fluctuations in water level; tidal variations; downstream area; general climate, etc.

Soil & geology	sand
Geomorphology and landscape	lowland, coastal
Nutrient status	eutrophic
pH	circumneutral
Salinity	fresh
Soil	mainly mineral
Water permanence	usually permanent
Summary of main climatic features	Annual averages (Craibstone, 1971–2000) (www.metoffice.com/climate/uk/averages/19712000/sites/craibstone.html) Max. daily temperature: 11.2° C Min. daily temperature: 4.6° C Days of air frost: 53.6 Rainfall: 816.3 mm Hrs. of sunshine: 1409.0

General description of the Physical Features:

Loch of Strathbeg is a shallow, naturally eutrophic loch with adjoining reedbeds, freshwater marshes, and alder *Alnus glutinosa* and willow *Salix* spp. carr. The calcareous dunes and dune slacks within the site are relatively undisturbed and contain a rich flora. The loch constitutes the largest dune slack pool in the UK (200 ha) and the largest waterbody in the north-east Scottish lowlands. It is separated from the sea by a 0.5-1 km wide dune system.

17. Physical features of the catchment area:

Describe the surface area, general geology and geomorphological features, general soil types, general land use, and climate (including climate type).

Loch of Strathbeg is a shallow, naturally eutrophic loch with adjoining reedbeds, freshwater marshes, and alder *Alnus glutinosa* and willow *Salix* spp. carr. The calcareous dunes and dune slacks within the site are relatively undisturbed and contain a rich flora. The loch constitutes the largest dune slack pool in the UK (200 ha) and the largest waterbody in the north-east Scottish lowlands. It is separated from the sea by a 0.5-1 km wide dune system.

18. Hydrological values:

Describe the functions and values of the wetland in groundwater recharge, flood control, sediment trapping, shoreline stabilization, etc.

No special values known

19. Wetland types:

Inland wetland, Marine/coastal wetland

Code	Name	% Area
O	Freshwater lakes: permanent	35
U	Peatlands (including peat bogs swamps, fens)	25
E	Sand / shingle shores (including dune systems)	24
Other	Other	16

20. General ecological features:

Provide further description, as appropriate, of the main habitats, vegetation types, plant and animal communities present in the Ramsar site, and the ecosystem services of the site and the benefits derived from them.

Open Water: largest waterbody in north-east Scotland. Largest dune lake in Britain. It is shallow (c. 1.5 m deep) and nutrient-rich.

Marsh: wetland habitat is relatively rare in the district and the surrounding marshes are among the richest in north-east Scotland.

Well-developed system of calcareous dunes and slacks also present within the site.

Ecosystem services

21. Noteworthy flora:

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in 12. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc. *Do not include here taxonomic lists of species present – these may be supplied as supplementary information to the RIS.*

Nationally important species occurring on the site.**Higher Plants.**

Ranunculus reptans, *Corallorhiza trifida*, *Potamogeton filiformis*, *Juncus balticus*

Lower Plants.

Tolypella nidifica

22. Noteworthy fauna:

Provide additional information on particular species and why they are noteworthy (expanding as necessary on information provided in 12. Justification for the application of the Criteria) indicating, e.g. which species/communities are unique, rare, endangered or biogeographically important, etc., including count data. *Do not include here taxonomic lists of species present – these may be supplied as supplementary information to the RIS.*

Birds**Species currently occurring at levels of national importance:****Species regularly supported during the breeding season:**

Sandwich tern , <i>Sterna</i>	530 pairs, representing an average of 5% of the GB population (5 year mean 1993-1997)
(<i>Thalasseus</i>) <i>sandvicensis sandvicensis</i> , W Europe	

Species with peak counts in spring/autumn:

Ruff , <i>Philomachus pugnax</i> , Europe/W Africa	10 individuals, representing an average of 1.4% of the GB population (5 year peak mean 1998/9-2002/3)
Common greenshank , <i>Tringa nebularia</i> , Europe/W Africa	8 individuals, representing an average of 1.3% of the GB population (5 year peak mean 1998/9-2002/3)

Species with peak counts in winter:

Smew , <i>Mergellus albellus</i> , NW & C Europe	4 individuals, representing an average of 1% of the GB population (5 year peak mean 1998/9-2002/3)
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Species Information

None reported

23. Social and cultural values:

Describe if the site has any general social and/or cultural values e.g. fisheries production, forestry, religious importance, archaeological sites, social relations with the wetland, etc. Distinguish between historical/archaeological/religious significance and current socio-economic values.

Aesthetic

Environmental education/ interpretation
 Scientific research
 Sport fishing
 Sport hunting
 Tourism

b) Is the site considered of international importance for holding, in addition to relevant ecological values, examples of significant cultural values, whether material or non-material, linked to its origin, conservation and/or ecological functioning? No

If Yes, describe this importance under one or more of the following categories:

- i) sites which provide a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland:
- ii) sites which have exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland:
- iii) sites where the ecological character of the wetland depends on the interaction with local communities or indigenous peoples:
- iv) sites where relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland:

24. Land tenure/ownership:

Ownership category	On-site	Off-site
Non-governmental organisation (NGO)	+	
National/Crown Estate		+
Private	+	

25. Current land (including water) use:

Activity	On-site	Off-site
Nature conservation	+	+
Tourism	+	+
Recreation	+	+
Current scientific research	+	
Fishing: recreational/sport	+	
Arable agriculture (unspecified)	+	+
Grazing (unspecified)	+	+
Hunting: recreational/sport	+	
Sewage treatment/disposal	+	

26. Factors (past, present or potential) adversely affecting the site’s ecological character, including changes in land (including water) use and development projects:

Explanation of reporting category:

1. Those factors that are still operating, but it is unclear if they are under control, as there is a lag in showing the management or regulatory regime to be successful.
2. Those factors that are not currently being managed, or where the regulatory regime appears to have been ineffective so far.

NA = Not Applicable because no factors have been reported.

Adverse Factor Category	Reporting Category	Description of the problem (Newly reported Factors only)	On-Site	Off-Site	Major Impact?
No factors reported	NA				

For category 2 factors only.

What measures have been taken / are planned / regulatory processes invoked, to mitigate the effect of these factors?

Is the site subject to adverse ecological change? NO

27. Conservation measures taken:

List national category and legal status of protected areas, including boundary relationships with the Ramsar site; management practices; whether an officially approved management plan exists and whether it is being implemented.

Conservation measure	On-site	Off-site
Site/ Area of Special Scientific Interest (SSSI/ASSI)	+	+
Special Protection Area (SPA)	+	
Land owned by a non-governmental organisation for nature conservation	+	+
Management agreement	+	+
Site management statement/plan implemented	+	

b) Describe any other current management practices:

The management of Ramsar sites in the UK is determined by either a formal management plan or through other management planning processes, and is overseen by the relevant statutory conservation agency. Details of the precise management practises are given in these documents.

28. Conservation measures proposed but not yet implemented:

e.g. management plan in preparation; official proposal as a legally protected area, etc.

No information available

29. Current scientific research and facilities:

e.g. details of current research projects, including biodiversity monitoring; existence of a field research station, etc.

Contemporary.

Fauna.

Numbers of migratory and wintering wildfowl and waders are monitored annually as part of the national Wetland Birds Survey (WeBS) organised by the British Trust for Ornithology, Wildfowl & Wetlands Trust, the Royal Society for the Protection of Birds and the Joint Nature Conservation Committee.

Other regular Bird counts have also been carried out on the Loch.

Environment.

Future work on the nutrient status of the Loch is Planned by SNH in partnership with SEPA, RSPB and others.

Completed.

ITE Coastal Survey Invertebrates & Vegetation (1976)

Vegetation Survey (Dunbar & Cutts 1980)

BLS Lichen Survey (1984)

ITE Survey of Sand Dunes in Relation to Grazing (1986)

Study on Distribution of Geese (Paterson & Keller 1989)

Freshwater Macrophyte Survey (Pritchard 1990)

RSPB Vegetation Survey (Prosser & Wallace 1990)

RSPB Land Use and Wildfowl Counts in Relation to Nutrient Status of The Loch of Strathbeg

(Raffaelli, Warbrick & Young 1991)

30. Current communications, education and public awareness (CEPA) activities related to or benefiting the site:

e.g. visitor centre, observation hides and nature trails, information booklets, facilities for school visits, etc.

There is a RSPB Visitor centre at Starnafin and network of hides around loch.

31. Current recreation and tourism:

State if the wetland is used for recreation/tourism; indicate type(s) and their frequency/intensity.

Activities, Facilities provided and Seasonality.

Bird watching, Walking.

32. Jurisdiction:

Include territorial, e.g. state/region, and functional/sectoral, e.g. Dept. of Agriculture/Dept. of Environment, etc.

Scottish Executive, Environment and Rural Affairs Department

33. Management authority:

Provide the name and address of the local office(s) of the agency(ies) or organisation(s) directly responsible for managing the wetland. Wherever possible provide also the title and/or name of the person or persons in this office with responsibility for the wetland.

Scottish Natural Heritage, 2 Anderson Place, Edinburgh, EH6 5NP

34. Bibliographical references:

Scientific/technical references only. If biogeographic regionalisation scheme applied (see 15 above), list full reference citation for the scheme.

Site-relevant references

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www.wwt.org.uk/publications/default.asp?PubID=14
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