# **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:	FOR OFFICE USE ONLY.
	Joint Nature Conservation Committee  Monkstone House City Road Peterborough Cambridgeshire PE1 1JY UK Telephone/Fax: +44 (0)1733 - 562 626 / +44 (0)17 Email: RIS@JNCC.gov.uk	Designation date  Designation date  Site Reference Number
2.	Date this sheet was completed/updated: Designated: 21 September 1994	
3.	Country: UK (England)	
4.	Name of the Ramsar site: Broadland	
5.	Designation of new Ramsar site or update of existing	ng site:
Thi	s RIS is for: Updated information on an existing Rams	ar site
6.	For RIS updates only, changes to the site since its d Site boundary and area:	lesignation or earlier update:

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:

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.

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# 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  $\checkmark$  -or- no  $\square$ ;
  - 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  $yes \checkmark$  -orno  $\Box$ ;

# 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):

52 43 56 N

01 36 00 E

#### 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: Great Yarmouth

Located in eastern Norfolk, part of East Anglia.

# Administrative region: Norfolk; Suffolk

# 10. Elevation (average and/or max. & min.) (metres): 11. Area (hectares): 5488.61

Min. -2 Max. 4 Mean 1

# 12. General overview of the site:

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

Broadland is a low-lying wetland complex straddling the boundaries between east Norfolk and northern Suffolk. The area includes the river valley systems of the Bure, Yare and Waveney and their major tributaries. The open distinctive landscape comprises a complex and interlinked mosaic of wetland habitats including open water, reedbeds, carr woodland, grazing marsh and fen meadow. The region is important for recreation, tourism, agriculture and wildlife.

## 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).

2, 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 2

The site supports a number of rare species and habitats within the biogeographical zone context, including the following Habitats Directive Annex I features:

H7210	Calcareous fens with <i>Cladium mariscus</i> and specie Calcium-rich fen dominated by great fen sedge (sa	
H7230	Alkaline fens	Calcium-rich springwater-fed fens.
H91E0	Alluvial forests with Alnus glutinosa and Fraxinus	excelsior (Alno-Padion, Alnion
incanae, Sal	licion albae)	Alder woodland on floodplains,
and the Ann	ex II species	
S1016	Vertigo moulinsiana	Desmoulin's whorl snail
S1355	Lutra lutra	Otter
S1903	Liparis loeselii	Fen orchid.

The site supports outstanding assemblages of rare plants and invertebrates including nine British Red Data Book plants and 136 British Red Data Book invertebrates.

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

# $\label{thm:qualifying Species/populations} \textbf{Qualifying Species/populations (as identified at designation):}$

# Species with peak counts in winter:

Tundra swan , <i>Cygnus columbianus bewickii</i> , NW Europe	196 individuals, representing an average of 2.4% of the GB population (5 year peak mean 1998/9-2002/3)
Eurasian wigeon, Anas penelope, NW Europe	6769 individuals, representing an average of 1.6% of the GB population (5 year peak mean 1998/9-2002/3)
Gadwall, Anas strepera strepera, NW Europe	545 individuals, representing an average of 3.1% of the GB population (5 year peak mean 1998/9-2002/3)
Northern shoveler, <i>Anas clypeata</i> , NW & C Europe	247 individuals, representing an average of 1.6% of the GB population (5 year peak mean 1998/9-2002/3)

# Species/populations identified subsequent to designation for possible future consideration under criterion 6.

# Species with peak counts in winter:

Pink-footed goose, Anser brachyrhynchus,	4263 individuals, representing an average of
Greenland, Iceland/UK	1.7% of the population (5 year peak mean
	1998/9-2002/3)
Greylag goose, Anser anser anser, Iceland/UK,	1007 individuals, representing an average of
Ireland	1.1% of the population (Source period not
	collated)

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.

# **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	acidic, basic, neutral, clay, alluvium, peat, nutrient-rich,
	sedimentary
Geomorphology and landscape	lowland, valley, floodplain
Nutrient status	eutrophic, highly eutrophic, mesotrophic, oligotrophic
pH	acidic, alkaline, circumneutral
Salinity	brackish / mixosaline, fresh
Soil	mainly mineral, mainly organic
Water permanence	usually permanent, usually seasonal / intermittent
Summary of main climatic features	Annual averages (Lowestoft, 1971–2000)
	(www.metoffice.com/climate/uk/averages/19712000/sites
	/lowestoft.html)
	Max. daily temperature: 13.0° C
	Min. daily temperature: 7.0° C
	Days of air frost: 27.8
	Rainfall: 576.3 mm
	Hrs. of sunshine: 1535.5

#### General description of the Physical Features:

Broadland is a low-lying wetland complex in eastern England. The Broads are a series of flooded medieval peat cuttings within the floodplains of five principal river systems. The area includes the river valley systems of the Bure, Yare and Waveney and their major tributaries. The distinctive open landscape comprises a complex and interlinked mosaic of wetland habitats including open water, reedbeds, carr woodland, grazing marsh and fen meadow, forming one of the finest marshland complexes in the UK. The differing types of management of the vegetation for reed, sedge and marsh hay, coupled with variations in hydrology and substrate, support an extremely diverse range of plant communities.

## 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).

Broadland is a low-lying wetland complex in eastern England. The Broads are a series of flooded medieval peat cuttings within the floodplains of five principal river systems. The area includes the river valley systems of the Bure, Yare and Waveney and their major tributaries. The distinctive open landscape comprises a complex and interlinked mosaic of wetland habitats including open water, reedbeds, carr woodland, grazing marsh and fen meadow, forming one of the finest marshland complexes in the UK.

# 18. Hydrological values:

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

Recharge and discharge of groundwater, Flood water storage / desynchronisation of flood peaks, Maintenance of water quality (removal of nutrients)

# 19. Wetland types:

Inland wetland

Code	Name	% Area
U	Peatlands (including peat bogs swamps, fens)	30
Тр	Freshwater marshes / pools: permanent	30
W	Shrub-dominated wetlands	15
Xf	Freshwater, tree-dominated wetlands	10
О	Freshwater lakes: permanent	10
Q	Saline / brackish lakes: permanent	3
M	Rivers / streams / creeks: permanent	2

# 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.

The peatland areas of this site support: alder woodland on the floodplain dominated by *Alnus glutinosa* and the *Betula-Dryopteris cristata* community; mixed tall-herb fen typical of calcareous conditions are dominated by *Phragmites australis* and *Cladium mariscus*. The very wet mires are dominated by *Carex* spp. and *Juncus* spp., and spring-fed fens with *Schoenus nigricans*, *Carex dioica* and *Pinguicula nigricans*. Open waters are mostly highly eutrophic; however, some plant-rich mesotrophic and eutrophic examples remain, dominated by *Chara* sp., *Najas marina* and *Ceratophyllum demersum*. The ditch systems within the drained grasslands support Magnopotamion and Hydrocharition vegetation, often with *Stratiotes aloides*.

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.**

Nationally Rare:

S1903 Liparis loeselii Fen orchid.

S1831 *Luronium natans* Floating water-plantain.

Najas marina, Potamogeton acutifolius, Dryopteris cristata

Nationally Scarce: Althaea officinalis, Dactylorhiza traunsteineri, Potamogeton compressus, Potamogeton trichoides, Pyrola rotundifolia, Sonchus palustris, Cicuta virosa, Carex appropinquata, Thelypteris palustris, Lathyrus palustris, Potamogeton coloratus, Sium latifolium, Stratiotes aloides, Myriophyllum verticillatum.

Lower Plants.

Nationally Rare: Chara intermedia, Nitellopsis obtusa, Chara connivens, Chara intermedia and Cinclodium stygium

Nationally scarce: Chara curta, Drepanocladus vernicosus, Chara pendunculata, Campylium elodes, Chara aspera, Ricciocarpus natans, Tolypella glomerata.

# 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.

#### Rirds

# Species currently occurring at levels of national importance:

# Species regularly supported during the breeding season:

Eurasian marsh harrier, *Circus aeruginosus*, 16 pairs, representing an average of 10.5% of the Europe GB population (5 year mean 1987/8-1991/2)

# Species with peak counts in spring/autumn:

Common coot, *Fulica atra atra*, NW Europe 3112 individuals, representing an average of 1.7% of the GB population (5 year peak mean 1998/9-2002/3)

2002/3)

1996/7-2000/01)

Species with peak counts in winter:

Great cormorant, *Phalacrocorax carbo carbo*, NW Europe 273 individuals, representing an average of 1.1% of the GB population (5 year peak mean 1998/9-

Great bittern, *Botaurus stellaris stellaris*, W 2002/3)

2 individuals, representing an average of 2% of

Europe, NW Africa

Bean goose, *Anser fabalis fabalis*, NW Europe - 238 individuals, representing an average of 59.5% wintering of the GB population (5 year peak mean for

Greater white-fronted goose, Anser albifrons

albifrons, NW Europe

Eurasian teal, Anas crecca, NW Europe

Common pochard, *Aythya ferina*, NE & NW Europe

Smew, Mergellus albellus, NW & C Europe

Hen harrier, Circus cyaneus, Europe

Water rail, Rallus aquaticus, Europe

Ruff, Philomachus pugnax, Europe/W Africa

2002/3) 800 individuals, representing an average of 1.3% of the GB population (5 year peak mean 1998/9-

351 individuals, representing an average of 6% of

2934 individuals, representing an average of 1.5% of the GB population (5 year peak mean 1998/9-

the GB population (Source period not collated)

the GB population (5 year peak mean 1998/9-

of the GB population (5 year peak mean 1998/9-2002/3)
10 individuals, representing an average of 2.7%

of the GB population (5 year peak mean 1998/9-2002/3)

22 individuals, representing an average of 2.9% of the GB population (5 year peak mean 1987/8-1991/2)

23 individuals, representing an average of 5.1% of the GB population (5 year peak mean 1998/9-2002/3)

82 individuals, representing an average of 11.7% of the GB population (5 year peak mean 1998/9-2002/3)

# **Species Information**

Species occurring at levels of international importance.

# Invertebrates.

S1016 Vertigo moulinsiana Desmoulin's whorl snail

# Assemblage.

This site supports a diverse assemblage of invertebrates including:

Aeshna isosceles, Papilio machaon britannicus.

136 British Red Data Book invertebrate species have been recorded on the site.

# Nationally important species occurring on the site.

# Mammals.

S1355 Lutra lutra Otter

#### 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

Aquatic vegetation (e.g. reeds, willows, seaweed)

Archaeological/historical site

Environmental education/ interpretation

Fisheries production

Forestry production

Livestock grazing

Non-consumptive recreation

Scientific research

Sport fishing

Sport hunting

**Tourism** 

Transportation/navigation

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:
- 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)		
Local authority, municipality etc.	+	
National/Crown Estate	+	

Private
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# 25. Current land (including water) use:

Activity	On-site	Off-site
Nature conservation	+	+
Tourism	+	+
Recreation	+	+
Current scientific research	+	+
Collection of non-timber natural	+	
products: commercial		
Commercial forestry	+	+
Cutting/coppicing for	+	+
firewood/fuel		
Cutting of vegetation (small-	+	+
scale/subsistence)		
Fishing: commercial	+	+
Fishing: recreational/sport	+	+
Permanent arable agriculture		+
Rough or shifting grazing	+	+
Permanent pastoral agriculture	+	+
Hay meadows	+	+
Hunting: recreational/sport	+	+
Sewage treatment/disposal		+
Flood control	+	+
Irrigation (incl. agricultural water		+
supply)		
Mineral exploration (excl.		+
hydrocarbons)		
Transport route		+
Domestic water supply		+
Urban development		+
Non-urbanised settlements		+

# 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.

 $N\!A = Not \ Applicable \ because \ no \ factors \ have \ been \ reported.$ 

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)		
National Nature Reserve (NNR)	+	
Special Protection Area (SPA)	+	
Land owned by a non-governmental organisation	+	+
for nature conservation		
Management agreement	+	+
Site management statement/plan implemented	+	
Other	+	+
Environmentally Sensitive Area (ESA)	+	+
Special Area of Conservation (SAC)	+	

#### **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.

#### Flora.

The entire site has had a vegetation survey, primarily fen, wet woodland and open water areas, lakes plus ditch systems, and this is now on GIS.

Monitoring is undertaken on the site, particularly freshwater and fen habitats.

# Completed.

## Fauna.

Wintering and breeding bird survey of all drained marshland area completed, results on a GIS. Some species survey and monitoring, e.g. *Liparis loeselii*, *Luronium natans* and a number of molluscs.

# 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.

Many nature trails and footpaths with information boards and leaflets plus five visitor centres at Ranworth, Hickling, Strumpshaw, How Hill and Carlton Colville.

# 31. Current recreation and tourism:

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

#### Activities.

The area attracts large numbers of tourists predominantly during the summer, many of which are water-borne. The river and broads (lakes) both within and adjacent to the site carry large numbers of power and sail craft which results in large-scale erosion and loss of fringing reedswamp. Speed limits have been imposed, however boat numbers remains too high.

# Facilities provided.

Land-based recreation within the site is well managed, directing people to facilities where boardwalks are provided.

# Seasonality.

All year.

# 32. Jurisdiction:

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

Head, Natura 2000 and Ramsar Team, Department for Environment, Food and Rural Affairs, European Wildlife Division, Zone 1/07, Temple Quay House, 2 The Square, Temple Quay, Bristol, BS1 6EB

#### 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.

Site Designations Manager, English Nature, Sites and Surveillance Team, Northminster House, Northminster Road, Peterborough, PE1 1UA, UK

# 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**

- Aldridge, DC & Müller, SJ (2001) The Asiatic clam, *Corbicula fluminea*, in Britain: current status and potential impacts. *Journal of Conchology*, **37**(2), 177-183
- Baker, R, Clarke, K & Howlett, D (1999) A survey of the Broadland distribution of *Pseudamnicola confusa* (Frauenfeld). *English Nature Research Reports*, No. **319**
- Bratton, JH (ed.) (1991) British Red Data Books: 3. Invertebrates other than insects. Joint Nature Conservation Committee, Peterborough
- Cranswick, PA, Waters, RJ, Musgrove, AJ & Pollitt, MS (1997) *The Wetland Bird Survey 1995–96: wildfowl and wader counts.* British Trust for Ornithology, Wildfowl and Wetlands Trust, Royal Society for the Protection of Birds & Joint Nature Conservation Committee, Slimbridge McLeod, CR, Yeo, M, Brown, AE, Burn, AJ, Hopkins, JJ & Way, SF (eds.) (2004) *The Habitats Directive: selection of Special Areas of Conservation in the UK.* 2nd edn. Joint Nature Conservation Committee, Peterborough. www.jncc.gov.uk/SACselection
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- Tickner, M, Evans, C & Blackburn, M (1991) Restoration of a Norfolk Broad: a case study of Strumpshaw Fen. RSPB Conservation Review, 5, 72-77
- Wiggington, M (1999) British Red Data Books. 1. Vascular plants. 3rd edn. Joint Nature Conservation Committee, Peterborough

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