

# Information Sheet on Ramsar Wetlands

Categories approved by Recommendation 4.7 of the Conference of the Contracting Parties.

NOTE: It is important that you read the accompanying *Explanatory Note and Guidelines* document before completing this form.

## 1. Date this sheet was completed/updated:

12-09-2002

FOR OFFICE USE ONLY.

DD	MM	YY

Designation date

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Site Reference Number

## 2. Country:

the Netherlands

## 3. Name of wetland: Fluessen/ Vogelhoek/ Morra

## 4. Geographical coordinates: 52°56'N - 05°32'E

## 5. Altitude: (average and/or max. & min.) NAP -4 - -1 m

## 6. Area: (in hectares) 2,100

## 7. Overview: (general summary, in two or three sentences, of the wetland's principal characteristics)

An extensive freshwater lake with some wet meadows and sparse water fringe vegetation, located southwest of the city of Sneek and close to Oudegaasterbrekken. The lake is an important roost for geese and the pastures are important as feeding area.

## 8. Wetland Type (please circle the applicable codes for wetland types as listed in Annex I of the *Explanatory Note and Guidelines* document.)

marine-coastal: A · B · C · D · E · F · G · H · I · J · K

inland: L · M · N · **O** · P · Q · R · Sp · Ss · **Tp** · Ts  
· U · Va · Vt · W · Xf · Xp · Y · Zg · Zk

man-made: 1 · 2 · 3 · **4** · 5 · 6 · 7 · 8 · 9

Please now rank these wetland types by listing them from the most to the least dominant: O4Tp

## 9. Ramsar Criteria: (please circle the applicable criteria; see point 12, next page.)

1 · 2 · 3 · 4 · 5 · **6** · 7 · 8

Please specify the most significant criterion applicable to the site: 6

## 10. Map of site included? Please tick *yes* -or- *no*

(Please refer to the *Explanatory Note and Guidelines* document for information regarding desirable map traits).

## 11. Name and address of the compiler of this form:

National Reference Centre for Agriculture, Nature Management and Fisheries

PO Box 30, 6700 AA Wageningen, the Netherlands

tel.: +31 317 474800; fax: +31 317 427561

## 12. Justification of the criteria selected under point 9, on previous page. (Please refer to Annex II in the *Explanatory Note and Guidelines* document).

Criterion 6, Average peak numbers of species meeting the 1% threshold (1992/93-1997/98):

Species	Biogeographical population	1% Biogeogr. Population	% at site
<i>Branta leucopsis</i>	Russia/ Nederland	1800	3,4%

## 13. General location: (include the nearest large town and its administrative region)

Province of Friesland, ca. 20 km south-west of Sneek.

**14. Physical features:** (e.g. geology, geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth water permanence; fluctuations in water level; tidal variations; catchment area; downstream area; climate)

The site is of natural origin. The maximum depth of the site is 18 metres, the shipping lane has a depth of 30 metres. The Fluessen is a eutrophic lake affected by nutrient pollution, no submerged vegetation.

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**15. Hydrological values:** (groundwater recharge, flood control, sediment trapping, shoreline stabilisation etc)

Superfluous water from the surrounding polders is pumped into this lake system and subsequently discharged in the Waddensee. Part of this water originates from river Rhine which is directed to agricultural polders to compensate for water shortage during summer.

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**16. Ecological features:** (main habitats and vegetation types)

Permanent freshwater lakes 77%, Permanent freshwater marshes 5%, Wet grassland 18%.

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**17. Noteworthy flora:** (indicating, e.g., which species/communities are unique, rare, endangered or biogeographically important, etc)

Plant communities of European interest: *Pallavicinio-sphagnetum*.

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**18. Noteworthy fauna:** (indicating, e.g., which species are unique, rare, endangered, abundant or biogeographically important; include count data, etc.)

Note: Species included on Annex II of the EC Habitats Directive and bird species listed on Annex I of the EC Birds Directive have been indicated with an asterisk. In addition to those waterbirds listed under point 12, all waterbirds are mentioned occurring in numbers between 0,1 and 1,0% of their respective biogeographical populations Other non-waterbird species are included on the national Red List for the species group concerned.

Freshwater fish: Orfe *Leuciscus idus*;

Birds (breeding): \*Spotted Crake *Porzana porzana*; (non-breeding): White-fronted Goose *Anser albifrons*, Pink-footed Goose *A. brachyrhynchus*, \*Barnacle Goose *Branta leucopsis*, Tufted Duck *Aythya fuligula*, \*Smew *Mergus albellus*, \*Ruff *Philomachus pugnax*;

Mammals: \*Pond bat *Myotis dasycneme*; \*Root vole *Microtus oeconomus arenicola*.

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**19. Social and cultural values:** (e.g. fisheries production, forestry, religious importance, archaeological site etc.)

See 21. Current land use.

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**20. Land tenure/ownership of:** (a) site (b) surrounding area

The site is partly owned by Staatsbosbeheer (158 ha) and It Fryske Gea (268 ha); the remainder is state (Dienst der Domeinen, Ministerie van Financiën) and private ownership.

Surrounding area: several private owners.

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**21. Current land use:** (a) site (b) surroundings/catchment

Site: Boating 77%, Tourism and leisure 10%, Residential (scattered) 1%, Motorways and major roads 2%, Commercial fisheries 77%, Conservation and research 12%, Water management 100%.

Surroundings/ catchment: agriculture.

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**22. Factors (past, present or potential) adversely affecting the site's ecological character, including changes in land use and development projects:** (a) at the site (b) around the site

Site (A = serious threat covering large part of the area; B = moderate threat or local threat; C = minor threat):

Drainage (C - intensive dairy farming); Recreation/ tourism (C - sailing and surfing but mainly in summer months).

Around the site: –

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**23. Conservation measures taken:** (national category and legal status of protected areas - including any boundary changes which have been made: management practices; whether an officially approved management plan exists and whether it has been implemented)

Special Protection Area (Birds Directive 79/409/EEC, 2000, 2100 ha); Wetland of International Importance (2/4/2000, 2100 ha). The (small) parts of the site owned and managed by the National Forestry Service (SBB) and the provincial conservation society (It Fryske Gea) are covered by management plans.

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**24. Conservation measures proposed but not yet implemented:** (e.g. management plan in preparation; officially proposed as a protected area etc.)

None

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**25. Current scientific research and facilities:** (e.g. details of current projects; existence of field station etc.)

Most research and monitoring is carried out by the Institute for Inland Water Management and Waste Water Treatment (RIZA, [www.riza.nl](http://www.riza.nl)) of the Ministry of Transport, Public works and Watermanagement. The research is organised in four topics: *Wetland development and restoration*: research and advice on the restoration of wetlands to their natural state; *Water systems*: research and advice on the integrated management of inland waters; *Water pollution control*: research and advice on waste water treatment and emission levels; *Information and measurement technology*: collection and processing of data and research in specialist laboratories. Relevant research is also carried out the Institute for River Research, which is part of the Institute for Hydraulic Engineering (IHE, [www.ihe.nl](http://www.ihe.nl)) in Delft, and focuses mainly on floodplain research. The Center for Limnology (NIOO-CL, [www.nioo.nl](http://www.nioo.nl)) in Nieuwersluis studies plant-bird interactions in several large freshwater lakes as part of general limnological research programmes. Also regular bird counts.

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**26. Current conservation education:** (e.g. visitors centre, hides, information booklet, facilities for school visits etc.)

Excursions.

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**27. Current recreation and tourism:** (state if wetland is used for recreation/tourism; indicate type and frequency/intensity)

See 21. Current land use. Number of visitors not known.

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**28. Jurisdiction:** (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept. of Environment etc.)

Municipalities Nijefurd and Gaasterlan-Sleat. Functional jurisdiction (conservation purposes): Ministerie van Landbouw, Natuurbeheer en Visserij.

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**29. Management authority:** (name and address of local body directly responsible for managing the wetland)

It Fryske Gea, PO Box 3, 9244 ZN Beetsterzwaag, the Netherlands, +31 512 381448

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**30. Bibliographical references:** (scientific/technical only)

- Osieck E.R. & Borggreve C.M. 1999. National Inventory of Ramsar sites in the Netherlands. IKC Natuurbeheer, Wageningen.
  - van Roomen M.W.J, Boele A., van der Weide M.J.T., van Winden E.A.J, Zoetebier D. 2000. Belangrijke vogelgebieden in Nederland, 1993-97. Actueel overzicht van Europese vogelwaarden in aangewezen en aan te wijzen speciale beschermingszones en andere belangrijke gebieden. SOVON-informatierapport 2000/01. SOVON Vogelonderzoek Nederland, Beek-Ubbergen.
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Please return to: **Ramsar Convention Bureau, Rue Mauverney 28, CH-1196 GLAND, Switzerland**

Telephone: +41 22 999 0170 • Fax: +41 22 999 0169 • e-mail: [ramsar@hq.iucn.org](mailto:ramsar@hq.iucn.org)