

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:

18-02-2003

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Designation date

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Site Reference Number

2. Country:

the Netherlands

3. Name of wetland: Voornes Duin

4. Geographical coordinates: 51°54'N - 04°03'E

5. Altitude: (average and/or max. & min.) NAP 3 – 14 m

6. Area: (in hectares) 1,500

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

The least spoiled dune area of the Netherlands located between Oostvoorne and Haringvliet. The area includes two lakes (Breedewater, Quackjeswater) and mesotrophic dune slacks surrounded by *Alnus* woodland and wet dune valleys.

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 .

Ip . 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: EK**T**p

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: 1

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

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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 1: This dune area includes fine examples of wet dune slacks and freshwater lakes which are rare in Western Europe.

Criterion 2: The site has a high diversity of interesting plants and animal species including:

- one species of stoneworths Characea of the national red list: *Chara contraria*;
- three species of mushrooms of the national red list including: *Gyrodon lividus* and *Arrhenia lobata*;
- six wetland mosses of the national red list including: *Bryum neodamense*; *Drepanocladus sendtneri* and *Preissia quadrata*;
- nine wetland plant species of the national red list including Fen Orchid *Liparis loeselii*; Grass-of-Parnassus *Parnassia palustris*; Parsley Water-dropwort *Oenanthe lachenalii*;
- one species of amphibians on Annex II of the EU Habitats Directive: Crested Newt *Triturus cristatus*;
- three species of birds included on Annex I of the EU Birds Directive: Great Egret *Egretta alba* [*Casmerodius albus*], Eurasian Spoonbill *Platalea leucorodia*, Osprey *Pandion haliaetus*.

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

Species	Biogeographical population	1% Biogeogr. Population	% at site	Period
<i>Phalacrocorax carbo</i>	North/Central-Europe	700 breeding pairs	1,9%	1993-97
<i>Platalea leucorodia</i>	Eastern Atlantic	10 breeding pairs	10,0%	1993-97

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

Province of Zuid-Holland, ca. 20 km south of The Hague.

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, although people always have influenced the development of the site. The two dune lakes Quackjeswater and Breede Water are sometimes completely dry, or the water surface level is low.

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

The dune area of Voornes Duin forms the natural coastal defence of the former island “Voorne-Putten” against the North Sea. Unlike most other dune areas this site is not being used for the extraction of drinking water.

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

Coastal freshwater lakes 4%, Coastal sand dunes 96%.

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

Plant communities on the Red List: *Charetum hispidae*; *Charetum asperae*; *Charetum canescentis*; *Echinodora-Potametum graminei*; *Samolo-Littorelletum*; *Cladietum marisci*;

Stoneworth species on the Red List: *Chara contraria*;

Mushroom species on the Red List: *Gyrodon lividus*; *Tricholoma fulvum*; *Arrhenia lobata*;

Moss species on the Red List: *Bryum neodamense*; *Campylium elodes*; *Campylium polygamum*; *Drepanocladus sendtneri*; *Fissidens adianthoides*; *Preissia quadrata*;

Vascular plants on the Red List: Floating Water-Plantain *Luronium natans*; Fen Orchid *Liparis loeselii*; Grass-of-Parnassus *Parnassia palustris*; Marsh Spurge *Euphorbia palustris*; Parsley Water-dropwort *Oenanthe lachenalii*; Marsh Lousewort *Pedicularis palustris*; British Fleabane *Inula britannica*; Marsh Helleborine *Epipactis palustris*; Early Marsh-Orchid *Dactylorhiza incarnata*.

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.

Dragonflies: *Brachytron pratense*;

Freshwater molluscs: *Segmentina nitida*;

Amphibians: *Crested Newt *Triturus cristatus*;

Birds: (breeding): Black-necked Grebe *Podiceps nigricollis*, Great Cormorant *Phalacrocorax carbo*, *Eurasian Spoonbill *Platalea leucorodia*; (non-breeding): Little Egret *Egretta garzetta*,

*Great Egret *Egretta alba* [*Casmerodius albus*], *Eurasian Spoonbill *Platalea leucorodia*,

*Osprey *Pandion haliaetus*.

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

See 21. Current land use.

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

The site is owned by Natuurmonumenten (809 ha) en the Zuidhollands Landschap (410 ha).

Surrounding area: on land several private owners.

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

Site: Boating 2%, Tourism and leisure 50%, Residential (scattered) 2%, Conservation and research 98%, Water management 100%.

Surroundings/ catchment: –

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): Disturbance to birds (A - pleasure aircrafts); Industrialization and urbanization (C - extension Maasvlakte and wind turbines); Recreation/tourism (B–).

Around the site: –

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, 1500 ha); Wetland of International Importance (2000, 1500 ha). Management plan: Braat, C.W. 1992. Voornes Duin: beheersplan 1993. Vereniging Natuurmonumenten, 's-Graveland.

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

Proposed Site of Community Interest (Habitats Directive 92/43/EEC, 1129 ha); Designation under the Nature Conservation Act (1250 ha).

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

Also regular bird counts.

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

Visitors centre, excursions, hide, information booklet.

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.

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

Municipalities Hellevoetsluis, Westvoorne. Functional jurisdiction (conservation purposes): Ministerie van Landbouw, Natuurbeheer en Visserij.

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

Natuurmonumenten, PO Box 9955, 1243 ZS 's Graveland, the Netherlands, +31 35 6559933

30. Bibliographical references: (scientific/technical only)

· Boot R.G.A., van Dorp D. 1986. De plantengroei van de Duinen van Oostvoorne in 1980 en veranderingen sinds 1934. Stichting Het Zuidhollands Landschap. Rotterdam.

- Kuijpers J., Hamerlynck O. & Craeymeersch J. A., Baptist H., van der Laand D. 1990. De veranderende Delta. Wetenschappelijke Mededeling KNNV nr. 198. Stichting Uitgeverij Koninklijke Nederlandse Natuurhistorische Vereniging.
- Osieck E.R. & Borggreve C.A. 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.
- Een verkenning van de Zuidhollandse Landschappen, deel info. 1990. Stichting het Zuidhollands Landschap. Rotterdam.

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