

Ramsar Information Sheet

Published on 15 July 2022 Update version, previously published on : 2 April 2015

NetherlandsDuinen Terschelling



Designation date 29 August 2000 Site number 2215

Coordinates 53°23'56"N 05°18'23"E

Area 4 040,30 ha

Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

1 - Summary

Summary

The Ramsar site Duinen Terschelling (4040 ha) are among the most non-calcareous dune areas of the Wadden Islands. The site there mainly consists of extensive dry dune grasslands and heath vegetation, containing many special species of lichens, mosses and higher plants. The dune valleys in between show a range of variation, from open water to button rush vegetation and acidic birch forests. However, the western part of the dune area, the Noordvaarder, is young and therefore still has calcareous parts with associated gradients to decalcified parts. There is a well-developed and natural dune system with floristically rich dune slopes, primary valleys with short gradients of dry-wet, fresh-salt and acid-alkaline at the edges and many pioneer situations. All the typical dune valley vegetations are present in the area. Southeast of this is the green beach, with a fresh water dune stream. Due to the occurrence of gradients from wet to dry, a great diversity of plant species is present there. There is also such a strong supply of groundwater from the Noordvaarder that local peat-forming vegetations develop. The same phenomenon occurs at the Kooibosjes in the inner dune edge, where a strong seepage from the adjacent dune massif is the controlling factor. North of De Boschplaat (belonging to Ramsar site Waddenzee) lies a dune area where sands can drift freely and where coastal erosion takes place. The area also includes some forest complexes consisting of planted coniferous and deciduous forests and spontaneous regrowth. The site is particularly important for the conservation of several habitat types and breeding bird species.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Responsible compiler

Institution/agency Wageningen Environmental Research

PO Box 47
Fostal address 6700 AA Wageningen
The Netherlands

National Ramsar Administrative Authority

Institution/agency Ministry of Agriculture Nature and Food Quality

Bezuidenhoutseweg 73 P.O. Box 20401 2500 EK The Hague The Netherlands

Postal address

2.1.2 - Period of collection of data and information used to compile the RIS

From year 2015

To year 2020

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Duinen Terschelling

Unofficial name (optional)

Originally designated as part of Site no. 1,252 (Waddeneilanden, Noordzeekustzone and Breebaart)

2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary Yes O No

(Update) B. Changes to Site area

(Update) For secretariat only. This update is an extension □

2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps 0

Boundaries description

The boundary of the Ramsar site is equal to the Natura 2000-site with the same name.

The Site was formerly part of Ramsar Site 1252 (Waddeneilanden, Noordzeekustzone, Breebaart) which was divided in six Sites following Natura 2000 borders in 2014

2.2.2 - General location

a) In which large administrative region does the site lie?

b) What is the nearest town or population centre?

Province of Friesland

Nearest (biggest) village is West-Terschelling within the municipality of Terschelling with a population of 4870 in 2021 (Source: CBS, Netherlands Statistics).

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?

b) Is the site adjacent to another designated Ramsar Site on the Yes
No O territory of another Contracting Party?

idem No O

d) Transboundary Ramsar Site name: Wadden Sea

2.2.4 - Area of the Site

Sites part of transboundary designation

Duinen Ameland - Netherlands

Duinen en Lage Land Texel - Netherlands

<u>Duinen Schiermonnikoog - Netherlands</u>

Duinen Vlieland - Netherlands

Hamburgisches Wattenmeer - Germany

North Sea Coastal Area - Netherlands

Schleswig-Holstein Wadden Sea and adjacent areas - Germany

Vadehavet - Denmark

Wadden Sea - Netherlands

Wattenmeer, Elbe-Weser-Dreieck - Germany

Wattenmeer, Jadebusen & westliche Wesermündung - Germany

Wattenmeer, Ostfriesisches Wattenmeer & Dollart - Germany

Official area, in hectares (ha): 4040.3

Area, in hectares (ha) as calculated from 4096.855

GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

	Regionalisation scheme(s)	Biogeographic region
	Other scheme (provide name below)	Atlantic

Other biogeographic regionalisation scheme

The bio-geographic regions dataset used, contains the official delineations used in the Habitats Directive (92/43/EEC) and for the EMERALD Network set up under the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention).

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

Criterion 1: Representative, rare or unique natural or near-natural wetland types

The Dutch coastal dunes system stretching from the north-eastern border with Germany and the southwestern border with Belgium is actually one big nature reserve. Within the Netherlands but also within the Other ecosystem services provided Atlantic biogeographic region it may be regarded as one of the most biodiverse ecosystems. The over 4000 ha of the Duinen Terschelling represent a vast and unique natural or near-natural dune-system containing a large variety of species and (priority) habitat types of European importance.

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3 : Biological diversity

Justification

The Duinen Terschelling is designated as a Natura 2000 site (both SAC and SPA) and can therefore be considered important for maintaining the biodiversity of the Atlantic biogeographic region. Besides the species mentioned under criterion 2, the site has also been designated as a SAC for a range of habitat types (Annex I of HD) and SPA for a number of bird species that are not on Annex I of the BD.

☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions

The Ramsar site is also part of the Natura 2000 network in the European Union. It is designated as a Optional text box to provide further | Special Protection Area (SPA) for the functions that it provides to specific breeding bird species. The site information is also designated as a Special Area of Conservation (SAC) for specific non-bird species (and habitat types, see section 3.4). See Natura 2000 - Standard data form https://natura2000.eea.europa.eu/

3.2 - Plant species whose presence relates to the international importance of the site

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
lantae								
TRACHEOPHYTA/ LILIOPSIDA	Anacamptis morio	/					National red list species	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Arctostaphylos uva-ursi	/					National red list species	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Atriplex pedunculata	V					National red list species	
TRACHEOPHYTA/ PSILOTOPSIDA	Botrychium Iunaria	/					National red list species	
BRYOPHYTA/ BRYOPSIDA	Bryum warneum	✓					National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Dactylorhiza incarnata	✓					National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Dactylorhiza maculata						National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Epipactis palustris						National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Juncus pygmaeus	✓					National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Liparis loeselii	v	Ø	v			National red list species	The site is also designated as a Special Are of Conservation (SAC) for this species and is part of the Natura 2000 network within the European Union.
TRACHEOPHYTA/ LILIOPSIDA	Luronium natans	v	Ø	v	LC		National red list species	The site is also designated as a Special Are of Conservation (SAC) for this species and is part of the Natura 2000 network within the European Union.
BRYOPHYTA/ JUNGERMANNIOPSIDA	Moerckia hibernica	✓					National red list species	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Parnassia palustris	2			LC		National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Platanthera bifolia	\checkmark					National red list species	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Radiola linoides						National red list species	
BRYOPHYTA/ JUNGERMANNIOPSIDA	Scapania irrigua	V					National red list species	
TRACHEOPHYTA/ LILIOPSIDA	Schoenoplectus lacustris lacustris	 ✓					National red list species	
ıngi								
BASIDIOMYCOTA / AGARICOMYCETES	Tricholoma equestre	V					National red list species	

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	0	Species contributes under criterion		Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status		Justification
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Phylum	Scientific name	Species qualifies under criterion 2 4 6 9	contr under	ecies ributes criterio	n Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
ARTHROPODA /	Argynnis niobe	2 000)						National red list species	
INSECTA ARTHROPODA / INSECTA	Boloria selene)						National red list species	
CHORDATA/ MAMMALIA	Halichoerus grypus atlantica		V)						National red list species	The site is also designated as a Special Area of Conservation (SAC) for this species and is part of the Natura 2000 network within the European Union.
Birds												
CHORDATA/ AVES	Acrocephalus schoenobaenus		2)			LC				The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Asio flammeus	Ø000)			LC			National red list species	The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA / AVES	Charadrius alexandrinus		2] 1	2015/16-2019/20		LC			National red list species	Reference population: alexandrinus, West Europe & West Mediterranean/West Africa. The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA / AVES	Charadrius hiaticula		2 -		23	2015/16-2019/20	0	LC			National red list species	Reference population: hiaticula, Northern Europe/Europe & North Africa. The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Circus aeruginosus		V)			LC				The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Circus cyaneus		2)			LC			National red list species	The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Larus fuscus intermedius		2] 111	2015/16-2017/18	0					Reference population: intermedius, S Scandinavia, Netherlands, Ebro Delta, Spain
CHORDATA/ AVES	Oenanthe oenanthe		V)			LC			National red list species	The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Platalea leucorodia		2		75	2015/16-2018/19	0.5	LC				leucorodia, West Europe/West Reference population: Mediterranean & West Africa. Breeding.
CHORDATA/ AVES	Saxicola rubetra		2)			LC			National red list species	The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.
CHORDATA/ AVES	Sternula albifrons		2 -		35	2015/16-2019/20	0.2	LC			National red list species	Reference population: albifrons, Europe north of Mediterranean (bre). The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.

Phylum	Scientific name		Species qualifies under criterion		contribu under crit		Species ontributes der criterion		Pop. Size		% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status Justification	Justification
CHORDATA/ AVES	Tachybaptus ruficollis		4		 3 €		7	8	25	2015/16-2018/19	0	LC				Reference population: ruficollis, Europe & North-west Africa. The site is also designated as a Special Protection Area (SPA) for this species and is part of the Natura 2000 network within the European Union.

¹⁾ Percentage of the total biogeographic population at the site

Bird data are provided by SOVON, Dutch Centre for Field Ornithology.

The 1% waterbird population thresholds are based on the 7th Edition of the Conservation Status Report (CSR7).

3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Salicomia and other annuals colonizing mud and sand			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Embryonic shifting dunes			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Shifting dunes along the shoreline with Ammophila arenaria ('white dunes')			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Fixed coastal dunes with herbaceous vegetation ('grey dunes')	Ø	Priority habitat types	The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Decalcified fixed dunes with Empetrum nigrum	✓	Priority habitat types	The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Dunes with Hippophaë rhamnoides			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Wooded dunes of the Atlantic region			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Dunes with Salix repens ssp. Argentea (Salicion arenariae)			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.

RIS for Site no. 2215, Duinen Terschelling, Netherlands

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Humid dune slacks			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Species-rich Nardus grassland, on siliceous substrates in mountain areas (and submountain areas in continental Europe)	Ø	Priority habitat types	The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Atlantic decalcified fixed dunes (Calluno- Ulicetea)	2	Priority habitat types	The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Spartina swards (Spartinion maritimae)			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Atlantic salt meadows (Glauco- Puccinellietalia maritimae)			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.
Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)			The site is also designated as a Special Area of Conservation (SAC) for this habitat type and is part of the Natura 2000 network within the European Union.

Optional text box to provide further information

The site is also designated as a Special Area of Conservation (SAC) for the habitat types listed above and is part of the Natura 2000 network within the European Union.

4 - What is the Site like? (Ecological character description)

4.1 - Ecological character

Due to the harsh climatic circumstances natural woodland in the Wadden area is generally low and dominated by oak (Quercus robur); this type of woodland has only developed on the five largest dune islands, among which the Duinen Terschelling. In the 20th century many conifers have been planted to stabilise shifting sand dunes, partly as an employment project in the 1930's. The dunes encompass many habitat types of European importance.

4.2 - What wetland type(s) are in the site?

Marine or coastal wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
E: Sand, shingle or pebble shores		2		Representative
H: Intertidal marshes		1		Representative

Inland wetlands

illiand wedands				
Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Marshes on inorganic soils >> Tp: Permanent freshwater marshes/ pools		3		Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Coastal dunes ecosystem	

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/LILIOPSIDA	Carex hartmanii	
TRACHEOPHYTA/LILIOPSIDA	Goodyera pubescens	
BRYOPHYTA/HAPLOMITRIOPSIDA	Haplomitrium hookeri	
TRACHEOPHYTA/LILIOPSIDA	Neottia cordata	

4.3.2 - Animal species

<no data available>

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Cfb: Marine west coast (Mild with no dry season, warm summer)

4.4.2 - Geomorphic setting

3
a) Minimum elevation above sea level (in metres)
a) Maximum elevation above sea level (in metres)
Entire river basin
Upper part of river basin \Box
Middle part of river basin \Box
Lower part of river basin
More than one river basin \Box

Not in river basin

Coastal 🗹

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

The Wadden island represents its own catchment area. The islands basically consist of dune sands and silt polders claimed from the sea. The land surface of the island ranges approx. 40 km².

4.4.3 - Soil

Mineral

(Update) Changes at RIS update

Organic

Organic

(Update) Changes at RIS update

(Update) Changes at RIS update

No change ● Increase ○ Decrease ○ Unknown ○

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)?

Please provide further information on the soil (optional)

The landscape is characterised by a vast dune area and polders. The dunes have, together with the neighbouring island of Vlieland the lowest lime contents. The area is mainly characterised by dry grass- and heathland and contain special species of lichen, mosses and plants. The western part however is a young sandbank named Noordvaarder. This area is rich in lime and contains primary valleys with gradients of basic/acidic and fresh/salt water. Wet/dry gradients are especially found near a (fresh water) dune stream in the south of the Noordvaarder which again results in different vegetation communities.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	No change

Source of water that maintains character of the site

Course of Water that manname orial actor of the Orio			
Presence?	Predominant water source	Changes at RIS update	
Water inputs from precipitation	>	No change	
Water inputs from groundwater		No change	
Marine water		No change	
Water inputs from surface water		No change	

Water destination

Presence?	Changes at RIS update
Feeds groundwater	No change
Marine	No change

Stability of water regime

oldonity of water regime		
Presence?	Changes at RIS update	
Water levels largely stable	No change	
Water levels fluctuating (including tidal)	No change	

4.4.5 - Sediment regime

Significant erosion of sediments occurs on the site

(Update) Changes at RIS update	No change Increase Decrease Unknown O
Significant accretion or deposition of sediments occurs on the site	
(Update) Changes at RIS update	No change ■ Increase □ Decrease □ Unknown □
Sediment regime unknown	П

Please provide further information on sediment (optional):

The dune system depends on processes of sand accretion and erosion by wind and sea. To a certain extend these processes still occur at the site.

4.4.6 - Water pH

Acid (pH<5.5) □	
^(Update) Changes at RIS update No change O Increase O Decrease O Unknown ●	
Circumneutral (pH: 5.5-7.4) □	
^(Update) Changes at RIS update No change O Increase O Decrease O Unknown ●	
Allerton (ethor of Allerton	

^(Update) Changes at RIS update No change (Increase ○ Decrease ○ Unknown ○			
Unknown			
Please provide further information on pH (optional):			
The pH of the water in the dune slacks was not exactly known at the time of completing this database.			

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update

Euhaline/Eusaline (30-40 g/l)

(Update) Changes at RIS update

(Update) Changes

(Update) Changes

(Update) Changes

(Update) Changes

(Update) Changes

(Update) Changes

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4.4.8 - Dissolved or suspended nutrients in water

Eutrophic (Update) Changes at RIS update No change Increase Decrease Unknown (Update) Changes at RIS update No change Increase Decrease Unknown (Update) Changes at RIS update No change Increase Decrease Unknown (Update) Changes at RIS update No change Increase Decrease Unknown Unknown

Please provide further information on dissolved or suspended nutrients (optional):

The dissolved or suspended nutrients in water were not exactly known at the time of completing this database.

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the i) broadly similar O ii) significantly different O site itself:

Surrounding area has greater urbanisation or development lacktriangledown

Surrounding area has higher human population density 🗹

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

Please describe other ways in which the surrounding area is different:

The site is surrounded by the North Sea and the Wadden Sea, as well as villages and agricultural fields.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Toward ling out weed			
Ecosystem service	Examples	Importance/Extent/Significance	
Fresh water	Drinking water for humans and/or livestock	High	

Regulating Services

Ecosystem service Examples		Importance/Extent/Significance
Hazard reduction	Flood control, flood storage	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Nature observation and nature-based tourism	High
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High

Optional text box to provide further information

Main ecosystem services of the site are:

- The chain of Wadden islands and dune systems creates shelter from the North Sea which protects and sustains the highly productive Wadden Sea (a.o. in terms of fisheries);
- The Wadden islands dunes protect the islands hinterland from the North Sea;
- The dunes are a catchment area for rainwater which provides high quality drinking (ground)water;
- The sunny climate and the scenic and natural beauty of the Wadden islands has turned the islands into one of the main tourism destinations in the Netherlands.

Have studies or assessments been made of the economic valuation of	Voc O No	Ollakaau	(e
ecosystem services provided by this Ramsar Site?	ies • ivo	Olikilow	/II C

4.5.2 - Social and cultural values

i) the site provides 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) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland]
iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples]
iv) 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]

<no data available>

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

		owners	
I UL	JIIC	OWITEIS	HIIP

ithin the Ramsar Site	In the surrounding area
✓	✓
	>

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)		₽

Provide further information on the land tenure / ownership regime (optional):

a) within the Ramsar site:

Staatsbosbeheer

b) in the surrounding area:

The water (Wadden Sea and North Sea) is state owned, on land several private owners.

5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Staatsbosbeheer Terschelling, see: https://www.staatsbosbeheer.nl/Natuurgebieden/terschelling

Rijkswaterstaat Noord-Nederland, Zuidersingel 3, 8911 AV Leeuwarden, P.O. Box 2301, 8901 JH, Leeuwarden, tel. +31 (0)58 234 43 44.

Provide the name and/or title of the person or people with responsibility for the wetland:

https://www.staatsbosbeheer.nl/Natuurgebieden/terschelling

Postal address

Head office: Staatsbosbeheer, P.O. Box 2, 3800 AA Amersfoort, the Netherlands, tel. 030-6926111

E-mail address: info@staatsbosbeheer.nl

5.2 - Ecological character threats and responses (Management)

5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Tourism and recreation areas	Medium impact	High impact	✓	No change	✓	No change

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Water abstraction	Medium impact	High impact	✓	No change	✓	No change

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Medium impact	High impact	✓	No change	✓	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Air-borne pollutants	High impact	High impact	✓	No change	✓	No change

5.2.2 - Legal conservation status

Regional (international) legal designations

regional (international) legal designations	egional (international) legal designations						
Designation type	Name of area	Online information url	Overlap with Ramsar Site				
EU Natura 2000	Duinen Terschelling	https://www.natura2000.nl/gebied en/friesland/duinen-terschelling	whole				

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National Ecological Network (NEN)	Duinen Terschelling	https://www.government.nl/topics /nature-and-biodiversity/nationa l- ecological-network-nen	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Duinen Terschelling	http://datazone.birdlife.org/sit e/factsheet/1185	whole
Important Plant Area	Dunes of West- Terschelling	https://atlasnatuurlijkkapitaal. nl/important-plant-areas	partly
Other non-statutory designation	KBA Duinen Terschelling	http://www.keybiodiversityareas. org/site/factsheet/1185	whole

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve
lb Wilderness Area: protected area managed mainly for wilderness protection
Il National Park: protected area managed mainly for ecosystem protection and recreation
III Natural Monument: protected area managed mainly for conservation of specific natural features
IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
VI Managed Resource Protected Area: protected area managed mainly

5.2.4 - Key conservation measures

Legal protection

Legal protection				
Measures	Status			
Legal protection	Implemented			

Hahitat

Tablat			
Measures	Status		
Habitat manipulation/enhancement	Implemented		

Species

Measures	Status
Threatened/rare species	Implemented
management programmes	

Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented
Communication, education, and participation and awareness activities	Implemented
Research	Implemented

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site?

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No processes with another Contracting Party?

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

Centrum voor Natuur en Landschap Terschelling (Centre for Nature and Landscape Terschelling)

URL of site-related webpage (if relevant): https://www.natuurmuseumterschelling.nl/

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented
Plant community	Implemented
Animal species (please specify)	Implemented
Plant species	Implemented

Ongoing biodiversity monitoring is one of the obligatory activities in relation to the designated Natura 2000-habitat types and species.

Numerous scientific research projects are ongoing in the Wadden Sea, North Sea Coastal area and the Wadden Islands.

Main responsible executors are:

- NIOZ: Royal Netherlands Institute for Sea Research;
- Wageningen IMARES: The Institute for Marine Resources and Ecosystem Studies (which joins same facilities with NIOZ);
- Wageningen Alterra: research institute for our green living environment (mainly terrestrial and fresh water research);
- University of Groningen (offering an MSc in Marine Biology);
- SOVON, the Dutch Bird Research Organisation, coordinates a continues national bird monitoring program in which it cooperates with 7000 volunteers, research institutes and organisations in the monitoring of birds throughout the Netherlands;
- TNO: Netherlands Organization for Applied Scientific Research (Den Helder);
- NIOO: Netherlands Institute of Ecology;
- RIKZ: The National Institute for Coastal and Marine Management.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

The site equals the Natura 2000-boundaries. Voor up-to-date information and references about the site see https://www.natura2000.nl/gebieden/friesland/duinen-terschelling.

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

ii. a detailed Ecological Character Description (ECD) (in a national format)

iii. a description of the site in a national or regional wetland inventory

iv. relevant Article 3.2 reports

v. site management plan

vi. other published literature

<no data available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



- (Bas van Gennip, -)

6.1.4 - Designation letter and related data

<2 file(s) uploaded>

Transboundary Designation letter

Date of Designation 2000-08-29