



# Ramsar Information Sheet

Published on 1 November 2022

Update version, previously published on : 15 December 2014

## Netherlands Grevelingen



Designation date	29 August 2000
Site number	1272
Coordinates	51°42'40"N 04°00'13"E
Area	13 753,00 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 Grevelingen (13,753 ha) is a former inlet located between Goeree-Overflakkee and Schouwen-Duiveland. Since the closure by the Delta Works, it has been the largest saltwater lake in Europe and contains a number of islands where extensive, species-rich dune valley vegetation and saline pioneer communities occur, as well as extensive riparian lands (including the Slikken van Flakkee) with saline vegetation, grasslands, brushwood, thickets and forests. Thanks in part to the isolated location of the islands (the former sandbanks Hompelvoet, Veermansplaat, Kleine Veermansplaat, Grote and Kleine Stampersplaat), the Grevelingen is one of the most important habitats for the Arctic vole in the southwestern Netherlands.

The Brouwers-sluis was constructed between the site and the North Sea in 1978. It prevents the site from becoming fresh water and allows for the exchange of fish stocks. The lake is now relatively poor in nutrients and algae and the water is clear. The Grevelingen is of exceptional importance for fish-eating water birds, which is probably due to the clear water, like the Red-breasted Merganser.

While the smaller and coastal fish-eaters have recently increased sharply, the importance of the Grevelingen for Great Crested Grebe, Great Cormorant, Red-breasted Merganser and Common Goldeneye decreased around 1999, possibly in relation to the changed management of the sluis. A less favorable situation may also arise due to the occurrence of stratification in the deeper parts, which can affect the fish stock. Stratification is related to limitations in water flow and water level variation. In addition to fish-eaters, the area is also important for some geese, ducks and waders, like the Brent Goose, Barnacle Goose and Kentish and Common Ringed Plovers. Furthermore the site is an important high-water refuge area for birds that forage during low tide in the adjacent Ramsar site Oosterschelde. The sites sandbanks and shell beaches also provide important breeding habitat for several coastal 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
Postal address	PO Box 47 6700 AA Wageningen The Netherlands

##### National Ramsar Administrative Authority

Institution/agency	Ministry of Agriculture Nature and Food Quality
Postal address	Bezuidenhoutseweg 73 P.O. Box 20401 2500 EK The Hague The Netherlands

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

From year	<input type="text" value="2015"/>
To year	<input type="text" value="2020"/>

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	<input type="text" value="Grevelingen"/>
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#### 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 <input type="radio"/> No <input checked="" type="radio"/>
(Update) B. Changes to Site area	No change to area
(Update) For secretariat only. This update is an extension	<input type="checkbox"/>

#### 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?	No
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## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps	<input type="text" value="0"/>
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#### Boundaries description

<p>The boundary of the Ramsar site is equal to the Natura 2000-site with the same name.</p> <p>In 2014 the Ramsar Site boundary was adjusted to the Natura 2000 site, and recreational areas, roads and agricultural land covering 116 ha have been excluded.</p>
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### 2.2.2 - General location

a) In which large administrative region does the site lie?	<input type="text" value="Zuid-Holland and Zeeland"/>
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b) What is the nearest town or population centre?	<input type="text" value="Brouwershaven, part of the municipality Schouwen-Duiveland with a population of 34.065 in 2021 (Source: CBS, Netherlands Statistics)."/>
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### 2.2.3 - For wetlands on national boundaries only

## RIS for Site no. 1272, Grevelingen, Netherlands

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

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

### 2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	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

<no data available>

Criterion 2 : Rare species and threatened ecological communities

Criterion 3 : Biological diversity

Justification

The Grevelingen 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 Habitats Directive, see section 3.4) and SPA for a number of bird species that are not on Annex I of the Birds Directive.

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

Optional text box to provide further information

The Ramsar site is also part of the Natura 2000 network in the European Union. It is designated as a Special Protection Area (SPA) for the functions that it provides to specific breeding and non-breeding bird species (e.g. migratory, hibernating, sleeping, resting, foraging). The site is also designated as a Special Area of Conservation (SAC) for specific non-bird species and (habitat types, see section 3.4).

see also: <https://natura2000.eea.europa.eu/>

Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

56,230

Start year

2015

End year

2020

Source of data:

Sovon, Dutch Centre for Field Ornithology

Optional text box to provide further information

Start season 2015/2016. End season 2019/2020. Peak numbers for all five seasons > 20,000. Average 56,230 individuals.

Criterion 6 : >1% waterbird population

Optional text box to provide further information

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

#### 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
<b>Plantae</b>								
TRACHEOPHYTA/ LILIOPSIDA	<i>Dactylorhiza incarnata</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National red list species	
TRACHEOPHYTA/ LILIOPSIDA	<i>Epipactis palustris</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	National red list species	
TRACHEOPHYTA/ LILIOPSIDA	<i>Liparis loeselii</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	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.
TRACHEOPHYTA/ MAGNOLIOPSIDA	<i>Oenanthe lachenalii</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National red list species	
TRACHEOPHYTA/ MAGNOLIOPSIDA	<i>Parnassia palustris</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	National red list species	

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

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
<b>Others</b>																	
CHORDATA/ MAMMALIA	<i>Halichoerus grypus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	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.
CHORDATA/ MAMMALIA	<i>Microtus oeconomus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species; this subspecies (arenicola) is endemic to the Netherlands	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.
CHORDATA/ MAMMALIA	<i>Phoca vitulina</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	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.
<b>Fish, Mollusc and Crustacea</b>																	
MOLLUSCA/ GASTROPODA	<i>Assiminea grayana</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	National RL category (2009) EN	
<b>Birds</b>																	
CHORDATA/ AVES	<i>Anas acuta</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	694	2015/16-2019/20	1.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: North-west Europe. 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	<i>Anas clypeata</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	481	2015/16-2019/20	0.7	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: North-west & Central Europe (win). 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	<i>Anas crecca</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1716	2015/16-2019/20	0.3	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: crecca, North-west Europe. 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			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification	
		2	4	6	9	3	5	7									8
CHORDATA/ AVES	<i>Anas penelope</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9761	2015/16-2019/20	0.7	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: Western Siberia & NE Europe/NW Europe. 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	<i>Anas platyrhynchos</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5571	2015/16-2019/20	0.1	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: platyrhynchos, North-west Europe. 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	<i>Anas strepera</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	770	2015/16-2019/20	0.6	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: strepera, North-west Europe. 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	<i>Anser albifrons</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	946	2016/17-2019/20	0.1		<input type="checkbox"/>	<input type="checkbox"/>		Reference population: albifrons, NW Siberia & NE Europe/North-west Europe. 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	<i>Anser anser</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4274	2015/16-2019/20	0.4	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: anser, NW Europe/South-west Europe. 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	<i>Anser serrirostris</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	425	2016/17-2019/20	0.1		<input type="checkbox"/>	<input type="checkbox"/>		Reference population: rossicus, West & Central Siberia/NE & SW Europe. foraging, resting
CHORDATA/ AVES	<i>Arenaria interpres</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	64	2015/16-2019/20	0	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: interpres, NE Canada & Greenland/W Europe & NW 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	<i>Branta bernicla</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6464	2015/16-2019/20	3.1	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: bernicla, Western Siberia/Western Europe. 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	<i>Branta leucopsis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7843	2015/16-2019/20	0.7	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: Russia/Germany & Netherlands. 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	<i>Bucephala clangula</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	569	2015/16-2019/20	0		<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: clangula, North-west & Central Europe (win). 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	<i>Calidris alpina alpina</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2734	2015/16-2019/20	0.2		<input type="checkbox"/>	<input type="checkbox"/>		Reference population: alpina, NE Europe & NW Siberia/W Europe & NW 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	<i>Charadrius alexandrinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	136	2015/16-2019/20	0.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	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.

Phylum	Scientific name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7								
CHORDATA/ AVES	<i>Charadrius hiaticula</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	128	2015/16-2019/20	0.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	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	<i>Circus aeruginosus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	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	<i>Cygnus columbianus bewickii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	204	2015/16-2019/20	0.9		<input type="checkbox"/>	<input type="checkbox"/>	Reference population: bewickii, Western Siberia & NE Europe/North-west Europe. 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	<i>Cygnus olor</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	363	2015/16-2019/20	0.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: North-west Mainland & Central Europe. foraging, resting
CHORDATA/ AVES	<i>Egretta garzetta</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27	2015/16-2019/20	0	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species Reference population: garzetta, Western Europe, NW 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	<i>Falco peregrinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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	<i>Fulica atra</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3376	2015/16-2019/20	0.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: atra, North-west Europe (win). 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	<i>Haematopus ostralegus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	552	2015/16-2019/20	0.1	NT	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: ostralegus, Europe/South & West Europe & NW 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	<i>Larus argentatus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	552	2015/16-2019/20	0	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: argentatus, North & North-west Europe.
CHORDATA/ AVES	<i>Larus fuscus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	798	2016/17-2019/20	0.1	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: intermedius, S Scandinavia, Netherlands, Ebro Delta, Spain. foraging, resting
CHORDATA/ AVES	<i>Limosa lapponica</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	93	2015/16-2019/20	0.1	NT	<input type="checkbox"/>	<input type="checkbox"/>	National red list species Reference population: lapponica, Northern Europe/Western Europe. 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	<i>Limosa limosa</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	152	2015/16-2019/20	0.2	NT	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: limosa, Western Europe/NW & West Africa. foraging, resting
CHORDATA/ AVES	<i>Mergus serrator</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3181	2015/16-2019/20	3.7	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: North-west & Central Europe (win). 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	<i>Numenius arquata</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1674	2015/16-2019/20	0.2	NT	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: arquata, Europe/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.



Phylum	Scientific name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7								
CHORDATA/ AVES	<i>Phalacrocorax carbo</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2562	2015/16-2019/20	0.4	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: sinensis, Northern & Central Europe. 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	<i>Platalea leucorodia</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	115	2015/16-2019/20	0.7	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species Reference population: leucorodia, 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	<i>Pluvialis apricaria</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6415	2015/16-2019/20	0.7	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species Reference population: altifrons, Northern Europe/Western Europe & NW 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	<i>Pluvialis squatarola</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	929	2015/16-2019/20	0.5	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: squatarola, W Siberia & Canada/W Europe & W 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	<i>Podiceps auritus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	2015/16-2019/20	0	VU	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: auritus, North-east Europe (small-billed). 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	<i>Podiceps cristatus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	691	2015/16-2019/20	0.1	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: cristatus, North-west & Western Europe. 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	<i>Podiceps nigricollis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1110	2015/16-2019/20	0.6	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: nigricollis, Europe/South & West 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	<i>Recurvirostra avosetta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	539	2015/16-2019/20	0.6	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: Western Europe & North-west Africa (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.
CHORDATA/ AVES	<i>Sterna hirundo</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1954	2015/16-2019/20	0.2	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species Reference population: hirundo, Northern & Eastern Europe (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.
CHORDATA/ AVES	<i>Sternula albifrons</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	534	2015/16-2019/20	2.4	LC	<input type="checkbox"/>	<input type="checkbox"/>	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.
CHORDATA/ AVES	<i>Tachybaptus ruficollis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	148	2015/16-2019/20	0	LC	<input type="checkbox"/>	<input type="checkbox"/>	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.
CHORDATA/ AVES	<i>Tadorna tadorna</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7479	2015/16-2019/20	3	LC	<input type="checkbox"/>	<input type="checkbox"/>	Reference population: North-west Europe. 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				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/ AVES	<i>Thalasseus sandvicensis</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1411	2015/16-2019/20	0.8	LC	<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: sandvicensis, Western Europe/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	<i>Tringa totanus robusta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	262	2015/16-2019/20	0.1		<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: robusta, Iceland & Faroes/Western Europe, Northern Europe (breeding). 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	<i>Tringa totanus totanus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	220	2015/16-2019/20	0.1		<input type="checkbox"/>	<input type="checkbox"/>	National red list species	Reference population: totanus, Northern Europe (breeding). 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	<i>Vanellus vanellus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6605	2015/16-2019/20	0.1	NT	<input type="checkbox"/>	<input type="checkbox"/>		Reference population: Europe, W Asia/Europe, N Africa & SW Asia. foraging, resting

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
Salicornia and other annuals colonizing mud and sand	<input checked="" type="checkbox"/>		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 (	<input checked="" type="checkbox"/>	Priority habitat type	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 <i>Hippophae rhamnoides</i>	<input checked="" type="checkbox"/>		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 <i>Salix repens</i> ssp. <i>argentea</i> ( <i>Salicion arenariae</i> )	<input checked="" type="checkbox"/>		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.
Humid dune slacks	<input checked="" type="checkbox"/>		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.
Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	<input checked="" type="checkbox"/>		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 ( <i>Glaucopuccinellietalia maritimae</i> )	<input checked="" type="checkbox"/>		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

The area is characterised by clear salty water, islands and extensive shores. Salt tolerant pioneer vegetations can be found near the waterline. Dune slacks with species rich vegetations can be found on the islands and on the shores further inland from the waterline. The extensive mud flats, sandbanks and salt marshes of the past are now covered with grasslands, scrub and forest. The area is especially important for a great number of water bird and wader species. The ecosystem services mainly refer to the opportunities for water recreation, also diving.

### 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
H: Intertidal marshes		2		
J: Coastal brackish / saline lagoons		1		

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type
4: Seasonally flooded agricultural land		3	

### 4.3 - Biological components

#### 4.3.1 - Plant species

<no data available>

#### 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)

The climate according to Köppen is rainy (Cbf).

#### 4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- 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.

Originally the Grevelingen was a tidal area, part of the estuary of the rivers Rhine and Meuse. The connection with the Oosterschelde in the eastern part was closed by the Grevelingendam in 1965. Subsequently, the site was cut off from the North Sea by the closure of the Brouwershavense Gat in 1971. The original plan was to make a stagnant freshwater lake of the Grevelingen.

#### 4.4.3 - Soil

Mineral

(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)? Yes  No

Please provide further information on the soil (optional)

The general soil types are: Alluvial, Brown forest soils and montane soils.

#### 4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Marine water	<input type="checkbox"/>	No change
Water inputs from surface water	<input type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
Marine	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels largely stable	No change

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology:

The water level is kept on NAP – 0.20 m, but can vary between -0.10 and -0.30 depending on the wind strength.

Since 1985 sea water was let in during winter as the result of the general wish to retain the saline character of the lake. Since 2004 there is a year round influx of sea water.

#### 4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

No data available at the time of completing this database but probably no significant erosion, accretion, deposition or transportation of sediments.

#### 4.4.6 - Water pH

Unknown

Please provide further information on pH (optional):

Probably no change although the pH of the water was not exactly known at the time of completing this database.

#### 4.4.7 - Water salinity

Euhaline/Eusaline (30-40 g/l)

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

Unknown

#### 4.4.8 - Dissolved or suspended nutrients in water

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  ii) significantly different  site itself:

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

## 4.5 - Ecosystem services

### 4.5.1 - Ecosystem services/benefits

#### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	High
Recreation and tourism	Water sports and activities	High
Recreation and tourism	Nature observation and nature-based tourism	Medium
Scientific and educational	Major scientific study site	Medium
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Medium
Scientific and educational	Educational activities and opportunities	Medium
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 microorganisms, the genes they contain, and the ecosystems of which they form a part	High

Other ecosystem service(s) not included above:

Boating 80%, Tourism and leisure 10%, Commercial fisheries 80%, Conservation and research 100%, Water management 100%.

The site is very important for visitors. It has functions for water recreation (diving, sailing, (kite-)surfing, fishing, speed boats etc.) and recreation on land (walking, cycling etc.).

For details on visitor numbers see the recent study of Waterrecreatieadvies (2009).

See additional material for further information.

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

### 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

##### Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

##### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

##### within the Ramsar site:

Large part of the site is owned by Staatsbosbeheer (8370 ha); the remainder is state ownership (Dienst der Domeinen, Ministerie van Financiën).

##### in the surrounding area:

The water (Voordelta, Volkerakmeer and Oosterschelde) 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:

##### Main management authorities:

1. Rijkswaterstaat West Nederland Zuid, Boompjes 200, 3011 XD Rotterdam,
2. Staatsbosbeheer, see: <https://www.staatsbosbeheer.nl/Natuurgebieden/grevelingen>
3. Zuid-Hollands Landschap, see: <https://www.zuidhollandslandschap.nl/nl/page/240>
4. Natuur- en Recreatieschap de Grevelingen, Haven 1, 4316 PC Zonnemaire, the Netherlands, tel. +31 (0)111-691553.

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

See <https://www.staatsbosbeheer.nl/Natuurgebieden/grevelingen>

Postal address:

1. Rijkswaterstaat West Nederland Zuid, P.O. Box 556, 3000 AN Rotterdam, Tel. +31 (0)10 402 62 00
2. Staatsbosbeheer head office, P.O. Box 2, 3800 AA Amersfoort, the Netherlands, tel. +31 (0)30-6926111
3. Zuid-Hollands Landschap, Olof Palmestraat 18, 2616 LR Delft, tel. +31 (0)10 272 22 22
4. Natuur- en Recreatieschap de Grevelingen, Haven 1, 4316 PC Zonnemaire, the Netherlands, tel. +31 (0)111-691553.

E-mail address:

[info@staatsbosbeheer.nl](mailto: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
Housing and urban areas	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Commercial and industrial areas	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Tourism and recreation areas	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Shipping lanes	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Fishing and harvesting aquatic resources	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	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	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use	High impact	High impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

## Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Air-borne pollutants	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

The lack of tidal fluctuations causes oxygen deficiency in the deeper parts of the Grevelingen, which has a detrimental impact on life forms in these regions. Complete or partly restoration of the tidal dynamics will solve this issue.

## 5.2.2 - Legal conservation status

## Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Grevelingen	<a href="https://www.bij12.nl/wp-content/uploads/2020/09/Natura-2000-Beheerplan-115-Grevelingen.pdf">https://www.bij12.nl/wp-content/uploads/2020/09/Natura-2000-Beheerplan-115-Grevelingen.pdf</a>	whole

## National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National Ecological Network (NEN)	Grevelingen	<a href="https://www.government.nl/topics/nature-and-biodiversity/national-ecological-network-nen">https://www.government.nl/topics/nature-and-biodiversity/national-ecological-network-nen</a>	whole

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Grevelingen	<a href="http://datazone.birdlife.org/site/factsheet/1205">http://datazone.birdlife.org/site/factsheet/1205</a>	whole
Other non-statutory designation	KBA Grevelingen	<a href="http://www.keybiodiversityareas.org/site/factsheet/1205">http://www.keybiodiversityareas.org/site/factsheet/1205</a>	whole

## 5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II 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 for the sustainable use of natural ecosystems

## 5.2.4 - Key conservation measures

## Legal protection

Measures	Status
Legal protection	Implemented

## Habitat

Measures	Status
Hydrology management/restoration	Implemented
Improvement of water quality	Implemented
Habitat manipulation/enhancement	Implemented

## Species



Measures	Status
Threatened/rare species management programmes	Implemented

Human Activities

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

Other:

Large part of the shores and islands are grazed and sometimes mown to slow down succession and maintain the rich vegetation of the site. Water level management is tuned to breeding birds by reducing the water level prior to and during the breeding season and thereby creating a larger breeding area for pioneer bird species.

Conservation measures proposed but not yet implemented:  
 There are plans to partly open the eight kilometer Brouwersdam between Goeree-Overflakkee and Schouwen-Duiveland in order to partly restore the tidal system, which would improve the water quality and oxygen level of the Grevelingenmeer. This may solve the problems concerning the low level of oxygen and the dying of life in and near the bottom of the lake.

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? Yes  No

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

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

Grevelingen visitors centre, excursions, hides, information booklet.

URL of site-related webpage (if relevant): <https://www.bij12.nl/onderwerpen/natuur-en-landschap/natura-2000-beheerplannen/115-grevelingen/>

5.2.6 - Planning for restoration

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

Further information

The former tidal Grevelingen is currently a more or less stagnant salt-water lake which causes stratification and oxygen depletion in its deeper parts. The plan aims to partly restore the former tidal system in the Grevelingen. See <https://www.getijgrevelingen.nl/>

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Animal community	Implemented
Birds	Implemented
Soil quality	Implemented
Plant community	Implemented

Ongoing biodiversity monitoring is one of the obligatory activities in relation to the designated Natura2000 habitat types and species.

Most of the topics studied at in the Wadden Sea (ecology of seals, birds (numbers, distribution, foraging, breeding), fish, invertebrates, seagrass, sediment) are also studied and monitored in the Delta by Rijkswaterstaat, ([www.rws.nl](http://www.rws.nl)), the Center for Marine and Estuarine Ecology (NIOO/CEMO, [www.nioo.nl](http://www.nioo.nl)) and IMARES (part of the Wageningen University and Research Centre; [www.imares.wur.nl](http://www.imares.wur.nl)) in Yerseke.

Rijkswaterstaat monitors the presence of water birds on a regular scale. 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 (among others the Grevelingen).

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

The site equals the Natura 2000-boundaries. For up-to-date information and references about the site see <https://www.natura2000.nl/gebieden/zeeland/grevelingen>.

#### 6.1.2 - Additional reports and documents

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

<no file available>

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

<no file available>

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

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<1 file(s) uploaded>

vi. other published literature

<no file available>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



- ( Mark van Veen, - )

#### 6.1.4 - Designation letter and related data

Designation letter

<2 file(s) uploaded>

Date of Designation 2000-08-29