



# Ramsar Information Sheet

Published on 6 April 2017

Update version, previously published on 1 January 2002

## Sweden Stigfjorden



Designation date	12 June 1989
Site number	431
Coordinates	58°05'35"N 11°38'34"E
Area	7 326,00 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

Stigfjorden is a coastal site consisting of open waters and a number of small islands situated between two large islands close to the main land on the Swedish west coast. To the west there are narrow, navigable waters to the Skagerrak. The shallow water in the northern part of the site holds one of the richest bird colonies of this coast and provides shelter and food for waterbirds. The land areas in the north have a large proportion of agricultural lowland as distinguished from rocky islands of the site and the hilly, partly forested land areas in the south.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Compiler 1

Name	Sofia Åström
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##### Compiler 2

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

From year	2002
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Stigfjorden
Unofficial name (optional)	Stigfjorden (fjord)

#### 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 checked="" type="radio"/> No <input type="radio"/>
(Update) The boundary has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The boundary has been extended	<input checked="" type="checkbox"/>
(Update) The boundary has been restricted	<input checked="" type="checkbox"/>
(Update) B. Changes to Site area	the area has increased
(Update) The Site area has been calculated more accurately	<input type="checkbox"/>
(Update) The Site has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The Site area has increased because of a boundary extension	<input checked="" type="checkbox"/>
(Update) The Site area has decreased because of a boundary restriction	<input checked="" 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?	Yes (actual)
(Update) Are the changes	Positive <input checked="" type="radio"/> Negative <input type="radio"/> Positive & Negative <input type="radio"/>
(Update) Positive %	5
(Update) No information available	<input type="checkbox"/>
(Update) Changes resulting from causes operating within the existing boundaries?	<input checked="" type="checkbox"/>

(Update) Changes resulting from causes operating beyond the site's boundaries?

(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?

(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?

(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.

The Ramsar site has a new boundary. Firstly the site has been extended in the east with a large area of open waters. Secondly the boundary has been better delineated in other parts, in general including more water areas and wet land, and excluding non-wetland habitats.

Fishing regulations and the new nature reserve regulations for a minor part of the site has been implemented since last update.

(Update) Is the change in ecological character negative, human-induced AND a significant change (above the limit of acceptable change) Yes

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

b) Digital map/image  
<1 file(s) uploaded>

Former maps

Boundaries description

The boundaries coincide to a large extent the boundaries of the Natura 2000 sites Halsefjorden and Stigfjorden (except where those are side by side). Enclaves of non-protected areas within the Natura 2000-sites as well as more low-laying land areas are included in the Ramsar site.

The boundaries most often follows the shoreline, but are also including non-wetland areas where the Natura 2000 does include such areas.

### 2.2.2 - General location

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

b) What is the nearest town or population centre?

### 2.2.3 - For wetlands on national boundaries only

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
Udvardy's Biogeographical Provinces	11 Middle European Forest
Bailey's Ecoregions	240 Marine division
WWF Terrestrial Ecoregions	Sarmatic mixed forest PA0436
Marine Ecoregions of the World (MEOW)	25 North seas
EU biogeographic regionalization	Continental
Freshwater Ecoregions of the World (FEOW)	Ecoregion 406 Northern Baltic drainages

Other biogeographic regionalisation scheme

Nordiska Ministerrådet, 1977. Naturgeografiska regioner i Norden: Nemorale zone  
 EEA, 2002. DMEER (digital map of the European Ecological Regions: Sarmatic mixed forest  
 EEA, 2007. Pan-European marine ecosystems: 22 North Sea.  
 EEA ETC/BD: EU Marine regions: Marine Atlantic.



### 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

Other ecosystem services provided

The site provides fodder for live-stock. There is some non-commercial recreational fishing at the site.

Other reasons

A representative example of a near-natural wetland type (shallow marine waters and eel-grass beds) in the EU Continental region.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

Supports particular elements of biological diversity that are characteristic of the EU Continental Region as well as rare and endangered species. The site is important as a moulting area for waterbirds and a staging area for migratory waterbird. The site is also an important area for waterbirds during wintering/non-breeding/dry season.









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

- Criterion 8 : Fish spawning grounds, etc.

Justification

There are important spawning ground, nursery and feeding area for several fish species within the site. For example, shallow waters with *Zostera marina* are spawning grounds for species such as cod (*Gadus morhua*), turbot (*Scophthalmus maximus*) and plaice (*Pleuronectes platessa*).



















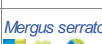

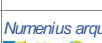

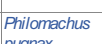





#### 3.2 - Plant species whose presence relates to the international importance of the site






Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Epipactis palustris</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>		See textbox below the table and in section 3.1.
<i>Euphrasia micrantha</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, (VJ).	See textbox below the table and in section 3.1.
<i>Gentianella campestris</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, (EN).	See textbox below the table and in section 3.1.
<i>Glaucium flavum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, (NT).	See textbox below the table and in section 3.1.
<i>Herminium monorchis</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, (VJ).	See textbox below the table and in section 3.1.
<i>Inula salicina</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		See textbox below the table and in section 3.1.
<i>Ophioglossum vulgatum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		See textbox below the table and in section 3.1.

Criterion 2 and 3: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>.

Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>.

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

Phylum	Scientific name	Common 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>Birds</b>																		
CHORDATA/AVES	 <i>Anas acuta</i>	Northern Pintail	<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"/>	Swedish Red List 2015, (VJ).	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Anas penelope</i>	Eurasian Wigeon	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Aythya marila</i>	Greater Scaup	<input checked="" 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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (VJ).	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Bucephala clangula</i>	Common Goldeneye	<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"/>	1500			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging and foraging. Moulting area. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Cygnus cygnus</i>	Whooper Swan	<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"/>	400			LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Haliaeetus albicilla</i>	White-tailed Eagle	<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"/>	10			LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Swedish Red List 2015, (NT), EC Birds Directive Annex I. Swedish action plan for the species.	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Limosa lapponica</i>	Bar-tailed Godwit	<input checked="" 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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (VJ), EC Birds Directive Annex I.	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Melanitta fusca</i>	Velvet Scoter; White-winged Scoter	<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"/>				VJ 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (NT).	Foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Mergellus albellus</i>	Smew	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Mergus serrator</i>	Red-breasted Merganser	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Numenius arquata</i>	Eurasian Curlew	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (NT).	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Philomachus pugnax</i>	Ruff	<input checked="" 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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (VJ), EC Birds Directive Annex I.	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Somateria mollissima</i>	Common Eider	<input checked="" 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"/>	1500			NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, (VJ).	Staging and foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Tadorna tadorna</i>	Common Shelduck	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging and foraging. See textbox below the table and in section 3.1.
<b>Fish, Mollusc and Crustacea</b>																		

Phylum	Scientific name	Common 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/ ACTINOPTERYGII	<i>Gadus morhua</i> 	Bacaleau	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>		Spawning in <i>Zostera marina</i> meadows. See textbox below the table and in section 3.1.
CHORDATA/ ACTINOPTERYGII	<i>Pleuronectes platessa</i> 	European plaice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Spawning in <i>Zostera marina</i> meadows. See textbox below the table and in section 3.1.
CHORDATA/ ACTINOPTERYGII	<i>Scophthalmus maximus</i> 	Britt; Breet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Spawning in <i>Zostera marina</i> meadows. See textbox below the table and in section 3.1.

1) Percentage of the total biogeographic population at the site

Criterion 2: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>.  
 Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>. Data about bivalvia: <http://www.musselportalen.se/>.

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

<no data available>



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

### 4.1 - Ecological character

Stigfjorden is a coastal site consisting of open shallow waters (the bays Stigfjorden and Halsefjoden) and a number of small islands, situated between two large islands close to the main land on the Swedish west coast. To the west there are narrow, navigable waters to the Skagerrak. The shallow water in the northern part of the site holds one of the richest bird colonies of this coast and provides shelter and food for waterbirds. Most of the seabed within the site is covered by Zostera and Potamogeton. Meadows and deciduous forests fringe the coast. The bedrock consists of granite, augen granite and veins of metabasite.

### 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
A: Permanent shallow marine waters		1	1150	Representative
D: Rocky marine shores		3	5	
G: Intertidal mud, sand or salt flats		2	450	Representative

Human-made wetlands

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

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
deciduous forest, residential areas, arableland	

### 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)

A rising sea level will flood low-laying shore areas.

#### 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.

The site lies in the archipelago of the sea Skagerrak.

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

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 checked="" 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 fluctuating (including tidal)	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 differences on water levels are small and depend on weak tidal conditions and changes in air pressure.

4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

The sediment regime within the site is mainly unknown, except that strong wind causes re-sedimentation from soft bottoms in shallow waters.

4.4.6 - Water pH

Unknown

<no data available>

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

Eutrophic

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

Unknown

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

The site is severely affected by eutrophication but the conditions have been relatively stable for the last few years.

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

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

To the east of the site there is open waters and further on the main land. To the south and the north there are big islands with forests and arable land. To the west there is the open sea.

## 4.5 - Ecosystem services

### 4.5.1 - Ecosystem services/benefits

#### Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Wetland non-food products	Livestock fodder	Low

#### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Low
Recreation and tourism	Picnics, outings, touring	Medium

#### 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	Medium

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
Local authority, municipality, (sub)district, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

##### Private ownership

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

#### 5.1.2 - Management authority

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

Länsstyrelsen i Västra Götalands län  
(County Administrative Board of Västra Götaland)

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

Kontaktperson för Ramsarområden

Postal address:

Länsstyrelsen i Västra Götalands län, 403 40 Göteborg, Sweden

E-mail address:

vastragotaland@lansstyrelsen.se

### 5.2 - Ecological character threats and responses (Management)

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

##### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage			<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Dredging			<input checked="" type="checkbox"/>		<input type="checkbox"/>	

##### 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	unknown impact	unknown impact	<input checked="" type="checkbox"/>	No change	<input 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			<input checked="" type="checkbox"/>		<input type="checkbox"/>	

Please describe any other threats (optional):

Some of the fish populations have been affected by earlier over-fishing. The over-fishing resulted in a ban against some types of fishing for certain species in the northern part of the site, but the affected populations take time to recover according to the follow-up measures.

#### 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	3 sites, see national legislation below		partly

##### National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Fiskeriverkets föreskrifter (FIFS 2004:36) (fishing forbidden)	Stigfjorden		partly
Natura 2000 SAC	Sundsby	<a href="http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Tjom/sundsby-se0520053.pdf">http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Tjom/sundsby-se0520053.pdf</a>	partly
Natura 2000 SPA& SAC (1)	Stigfjorden	<a href="http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Tjom/stigfjorden-se0520034.pdf">http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Tjom/stigfjorden-se0520034.pdf</a>	partly
Natura 2000 SPA& SAC (2)	Halsefjorden	<a href="http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/S tenungsund/halsefjorden-se0520174.pdf">http://www.lansstyrelsen.se/VASTRAGOTALAND/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/S tenungsund/halsefjorden-se0520174.pdf</a>	partly
Nature reserve (1)	Kälkerön	<a href="http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/tjom/kalkeron/Pages/index.aspx">http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/tjom/kalkeron/Pages/index.aspx</a>	partly
Nature reserve (2)	Råssö	<a href="http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/rasso/Pages/index.aspx">http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/rasso/Pages/index.aspx</a>	partly
Nature reserve (3)	Svanviks kile	<a href="http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/svanvik/Pages/index.aspx">http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/svanvik/Pages/index.aspx</a>	partly
Nature reserve (4)	Sundby	<a href="http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/tjom/sundsby/Pages/index.aspx">http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/tjom/sundsby/Pages/index.aspx</a>	partly
Nature reserve (5)	Valön	<a href="http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/valon-orust/Pages/index.aspx">http://www.lansstyrelsen.se/vastragotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/valon-orust/Pages/index.aspx</a>	partly
Nature reserve (6)	Stigfjorden	<a href="http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/stigfjorden/Pages/index.aspx">http://www.lansstyrelsen.se/VastraGotaland/Svdjur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/orust/stigfjorden/Pages/index.aspx</a>	partly

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Stigfjorden fjord	<a href="http://datazone.birdlife.org/site/factsheet/stigfjorden-fjord-ib-a-sweden">http://datazone.birdlife.org/site/factsheet/stigfjorden-fjord-ib-a-sweden</a>	partly

## 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	Proposed

Other:

Since the last update there have been several different legal protections implemented, such as additional nature reserves and regulations for recreational fishing.

### 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

### 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

### 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented
Plant community	Implemented
Plant species	Implemented
Animal community	

Surveys have been carried out for habitats such as reefs and soft sea beds, for species such as *Zostera marina* and for fish communities and habitats.

The Swedish Meteorological and Hydrological Institute (SMHI) has two fixed monitoring stations within the site.

There was a follow-up on the effects of the ban of fishing (certain kind of species and fishing methods) in 2016.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

ArtDatabanken, SLU 2015. Rödlistade arter i Sverige 2015.

Hultengren, S. & Olsson, K. 1995. Värdefulla odlingslandskap i Göteborg och Bohus län - bevarandeprogram för odlingslandskapets natur- och kulturvärden. Länsstyrelsen i Göteborg och Bohus län, rapport 1995: 21

Johansson, O. C., Blomqvist, D. & Pehrsson, O. 1997. Värdefulla rast- och övervintringsområden för sjöfåglar på Västkusten. Länsstyrelsen i Göteborg och Bohus län, rapport 1997: 4.

Helander, B, 2009. Åtgärdsprogram för havsörn 2009–2013. Naturvårdsverket 2009.

Nordiska Ministerrådet, 1977. Naturgeografisk regionindelning av Norden . NU B 1977:34

Olsson, G. 1976. Stigfjorden - natur och landskap. Naturinventeringar i Göteborg och Bohus län 1976: 1.

Åhlund, M., Åhlund, I. & Berntsson, B. 1985. Häckfågelfaunan på betade havsstrandängar. Naturinventeringar i Göteborg och Bohus län 1985: 3.

#### 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

<6 file(s) uploaded>

vi. other published literature

<1 file(s) uploaded>

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

Please provide at least one photograph of the site:



Stigfjorden ( Länsstyrelsen  
Västra Götalands län, 14-08-  
2009 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1989-06-12