



# Ramsar Information Sheet

Update version, previously published on : 1 January 2009

## Sweden Ottenby



Designation date	5 December 1974
Site number	17
Coordinates	56°12'49"N 16°25'23"E
Area	1 856,00 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 site Ottenby is an island peninsula that contains wet grassland, grading into sand and shingle beaches, sandbanks and small bays. Cattle, sheep, horses and deer graze the main part of the site. The north-eastern part is a hay-meadow that is mown every year. The south-eastern part of the site includes extensive pastures and the largest remaining unfertilized hay-meadow in Sweden. The area is important for large numbers of migrating and breeding birds. The peninsula is surrounded by shallow water (brackish) having a very important role as feeding resource for waders and waterfowl. The grasslands comprise approx. 340 hectares and form one of the largest coherent coastal grasslands in Sweden. The marine part has rich occurrence of seaweed on the bottom, which is of crucial importance for fish fauna. Sandbanks are of importance for fish and bivalve diversity.

## 2 - Data & location

### 2.1 - Formal data

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

##### Compiler 1

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Fax	+46 10 698 16 00

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

From year	2009
To year	2017

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Ottenby
Unofficial name (optional)	Ottenby (peninsula)

#### 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 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 site has a new border; it corresponds better to the existing nature reserve and the Natura 2000 site. In general this change has resulted in that quite large water areas and shore meadows have been included and that small areas of open water and non-wetland habitats have been excluded.

(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 boundary for the Ramsar site follows the range of natural grasslands and shallow coastal water to a depth of 6 meters. The border is corresponding to the existing Natura 2000 SAC site, excepts for in the north where it follows the border for the smaller Natura 2000 SPA site and the nature reserve instead of the SAC site.

### 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
Marine Ecoregions of the World (MEOW)	Baltic seas
EU biogeographic regionalization	Continental
Other scheme (provide name below)	Sarmatic mixed forest
WWF Terrestrial Ecoregions	PA0336 Sarmatic mixed forest
Bailey's Ecoregions	240 Marine division
Udvardy's Biogeographical Provinces	10 Boreonemoral
Freshwater Ecoregions of the World (FEOW)	405 Northern Baltic drainages
EU biogeographic regionalization	Marine Baltic

Other biogeographic regionalisation scheme

EEAA, 2007: Pan-European marine ecosystems - 23 Baltic Sea.  
EEA, 2002: Digital Map of European Ecological Regions (DMEER) - Sarmatic mixed forest

### 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

Hydrological services provided: The open meadows and pastures are regularly flooded, which strengthens the nutritional status of the wet grasslands.

Other ecosystem services provided: The open pastures provide fodder for grazing domestic animal.

Other reasons: The whole area is included in the World Heritage Site "The agricultural landscape of Southern Öland". The site was included in the World Heritage List in 2000 with the following justification: Criterion iv: The landscape of Southern Öland takes its contemporary form from its long cultural history, adapting to the physical constraints of the geology and topography. Criterion v: Södra Öland is an outstanding example of human settlement, making the optimum use of diverse landscape types on a single island.

The site supports a number of wetland types that are representative for the EU Continental region, for example, the shallow brackish waters and the shore meadows. The vast shore meadows are the largest in Sweden.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification: The site consists of many ecological communities and biotopes, which provide a very unique biological diversity. The geographical position of the Ottenby peninsula along an important flyway for migrating birds, and its diversity of habitats make it an important site for birds. The site supports populations of species important for maintaining the wetland biological diversity in the EU continental region, especially birds and plants. The site supports large numbers of birds listed in the EC Birds Directive. The non-wetland forest at the site has a rich biodiversity especially for species of lichens and fungi. The shallow waters around the peninsula of Ottenby contain a diverse fish fauna, of which many are dependent on sandy seaweed rich bottoms.

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

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers: 100000

Start year: 2015








Source of data: Data gathered yearly by the Ottenby bird observatory

- Criterion 6 : >1% waterbird population

- Criterion 8 : Fish spawning grounds, etc.







Justification: The fish fauna is diverse but as far as we know it doesn't include any red-listed species. The sand banks with shallow waters are of particular importance for reproduction and as growing grounds and foraging. Bottoms covered by seaweed have a crucial function for fish reproduction including spawning.



































### 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>Bupleurum tenuissimum</i>	Slender hare's-ear	<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>Carex hartmanii</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, VU.	See textbox below the table and in section 3.1.
 <i>Carex hostiana</i>	Tawny Sedge	<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>Carex pulicaris</i>	Flea sedge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, VU.	See textbox below the table and in section 3.1.
 <i>Herminium monorchis</i>	Musk orchid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015, VU.	See textbox below the table and in section 3.1.
 <i>Montia minor</i>	Fountain miner's-lettuce	<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>Serratula tinctoria</i>	Dyer's plumeless saw-wort	<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.



































Criterion 2 and 3: The species 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/>.























### 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, VU.	Foraging, resting grounds. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Anas crecca</i>	Green-winged Teal; Eurasian Teal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5000		1	LC	<input type="checkbox"/>	<input type="checkbox"/>	Protected species in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845)	Reproduction, foraging, resting grounds. See textbox below the table and in section 3.1. The site regularly supports at least 1% of the NW European population
CHORDATA/AVES	 <i>Anas querquedula</i>	Garganey	<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"/>					<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, VU.	Foraging, resting grounds. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Anser anser</i>	Greylag Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6100		1	LC	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction, resting grounds, foraging. The site regularly supports at least 1% of the NW European population. See textbox below this table and in section 3.1.
CHORDATA/AVES	 <i>Apus apus</i>	Common Swift	<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, VU.	Breeding, foraging, resting. See the textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Arenaria interpres</i>	Ruddy Turnstone	<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, VU.	Resting grounds, foraging. See the textbox below this table and in section 3.1.

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/AVES	 <i>Branta bernicla</i>	Brant goose	<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"/>	2800		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Resting. Foraging. See the textbox below this table and in section 3.1.
CHORDATA/AVES	 <i>Branta leucopsis</i>	Barnacle Goose	<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"/>	8000		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Resting. Foraging. See the textbox below this table and in section 3.1.
CHORDATA/AVES	 <i>Calidris alpina</i>	Dunlin	<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"/>	13300		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding. Reproduction. See the textbox below this table and in section 3.1.
CHORDATA/AVES	 <i>Calidris alpina schinzii</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"/>					<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, CR. EC Birds Directive Annex I.	Reproduction, resting, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Calidris temminckii</i>	Temminck's Stint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	550		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Resting. Foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Charadrius hiaticula</i>	Common Ringed Plover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	730		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, foraging, resting. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Chlidonias niger</i>	Black Tern	<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, VU. EC Birds Directive Annex I.	Reproduction, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Clangula hyemalis</i>	Long-tailed Duck; Oldsquaw	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16000		1	VU 	<input type="checkbox"/>	<input type="checkbox"/>		Resting, foraging. The site regularly supports at least 1% of the NW European population. Large number pass by the site, staging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Crex crex</i>	Corn Crane	<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, NT. EC Birds Directive Annex I.	Breeding, foraging, resting grounds. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Cygnus columbianus bewickii</i>	Tundra swan	<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"/>					<input type="checkbox"/>	<input type="checkbox"/>		Resting, foraging. 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Bird Directives Annex I.	Resting, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Cygnus olor</i>	Mute Swan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2500		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction, resting, foraging. The site regularly supports at least 1% of the NW European population.
CHORDATA/AVES	 <i>Ficedula parva</i>	Red-breasted Flycatcher	<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"/>	EC Birds Directive Annex I.	Breeding, foraging. See textbox below and in section 3.1.
CHORDATA/AVES	 <i>Haematopus ostralegus</i>	Eurasian Oystercatcher	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Protected species in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845)	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Hydroprogne caspia</i>	Caspian Tern	<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"/>	Swedish Red List.2015, NT. EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Larus fuscus</i>	Lesser Black-backed Gull	<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"/>	Swedish Red List 2015, NT.	Reproduction, foraging. See in 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1200		1	NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, VU. EC Birds Directive Annex I.	Resting. Foraging. See in textbox below the table and in section 3.1.
CHORDATA/AVES	 <i>Limosa limosa</i>	Black-tailed Godwit	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List.2015, CR.	Reproduction, foraging. See textbox below the table and in section 3.1.



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								
CHORDATA/AVES	<i>Melanitta fusca</i> 	White-winged Scoter; Velvet Scoter	<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"/>			VU 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List.2015, NT. Protected species in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845).	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Melanitta nigra</i> 	Black Scoter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5500	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging, resting, 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Reproduction, 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1700	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction, 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List. 2015, NT.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Pernis apivorus</i> 	European Honey Buzzard	<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"/>	Swedish Red List.2015, NT. EC Birds Directive Annex I.	Reproduction, foraging. See textbox below this table and in section 3.1.
CHORDATA/AVES	<i>Phalacrocorax carbo sinensis</i> 	Great cormorant	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4000	1		<input type="checkbox"/>	<input type="checkbox"/>		Breeding, foraging. See textbox below the table and 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015, VU. EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and section 3.1.
CHORDATA/AVES	<i>Pluvialis apricaria</i> 	European Golden Plover; European Golden-Plover	<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"/>	5000	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Breeding, resting, foraging. Large numbers are passing the site, staging. See textbox below the table and section 3.1.
CHORDATA/AVES	<i>Podiceps auritus</i> 	Horned Grebe	<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"/>			VU 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I. protected in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845).	Reproduction, foraging. See textbox below the table and section 3.1.
CHORDATA/AVES	<i>Porzana porzana</i> 	Spotted Crane	<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, VU. EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Recurvirostra avosetta</i> 	Pied Avocet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	750	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Remiz pendulinus</i> 	Eurasian Penduline Tit	<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, EN.	Reproduction, 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List.2015, VU. Protected species in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845).	Resting. Foraging. Large numbers of individuals are passing daily at the site. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Sterna paradisaea</i> 	Arctic Tern	<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"/>	EC Birds Directive Annex I.	Breeding, foraging, resting. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Sternula albifrons</i> 	Little Tern	<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, VU. EC Birds Directive Annex I.	Breeding, foraging. See textbox below the table and in section 3.1.
CHORDATA/AVES	<i>Thalasseus sandvicensis</i> 	Sandwich Tern	<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, VU. EC Birds Directive Annex I.	Breeding, foraging. See text box below and in section 3.1.
CHORDATA/AVES	<i>Tringa glareola</i> 	Wood Sandpiper	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10000	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Resting. See textbox below the table and in section 3.1.

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/AVES	<i>Tringa totanus</i> 	Common Redshank	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Breeding, foraging. See textbox below and in section 3.1.
CHORDATA/AVES	<i>Vanellus vanellus</i> 	Northern Lapwing	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Protected species in Sweden according to a Statutory instrument, Artskyddsförordning (2007:845)	Breeding, foraging. See textbox below and in section 3.1.
<b>Fish, Mollusc and Crustacea</b>																		
CHORDATA/ACTINOPTERYGII	<i>Ammodytes tobianus</i> 	Smooth sandeel; Small sandeel; Small sandeel; Sand-eel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, Shelter in sand bottoms. Growing grounds. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Clupea harengus</i> 	Sea herring; Fall herring; Heming; Labrador herring; Mesh herring; Hem; Spring herring; Summer herring; Herron; Shore herring; Protestant; Bank herring; Sea stick	<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"/>		Important habitat for reproduction, spawning, foraging and as growing grounds, particularly where there are sublittoral sand banks (1110). See text box below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Gasterosteus aculeatus</i> 	Eastern stickleback; European stickleback; Banstickle; New York stickleback; Saw-finned stickleback; Pinfish; Common stickleback; Twospine stickleback	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, growing grounds, shelter in vegetation. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Gobius niger</i> 	Black goby; Black goby; Black goby; Black goby; Black goby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, growing grounds, shelter in seaweed. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Gobiusculus flavescens</i> 	Two-spotted goby; Two-spotted goby; Two-spotted goby	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, foraging, shelter among seaweed. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Hyperoplus lanceolatus</i> 	Great sand eel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, shelter in sand bottom, growing grounds. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Platichthys flesus</i> 	European flounder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning. Foraging. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Spinachia spinachia</i> 	Fifteen-spine stickleback	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning. Shelter in seaweed. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Syngnathus typhle</i> 	Broadnosed pipefish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction including spawning, foraging, shelter in seaweed rich bottoms. See textbox below the table and in section 3.1.
CHORDATA/ACTINOPTERYGII	<i>Zoarces viviparus</i> 	Viviparous eelpout	<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"/>		Important habitat for reproduction and as growing grounds, particularly where there is sublittoral sand banks (1110). See textbox below the table and in section 3.1.
<b>Others</b>																		

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/ AMPHIBIA	<i>Pseudepidalea viridis</i> 	European green toad	<input checked="" type="checkbox"/>	<input checked="" 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. VU. EC Habitat Directive, Annex IV.	Reproduction. See textbox below this table and in section 3.1.	
CHORDATA/ AMPHIBIA	<i>Rana dalmatina</i> 	Agile frog	<input checked="" type="checkbox"/>	<input checked="" 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, VU.	Reproduction. Foraging. See textbox below the table and in section 3.1.	
CHORDATA/ AMPHIBIA	<i>Triturus cristatus</i> 	Great Crested Newt	<input type="checkbox"/>	<input checked="" 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 Habitat Directive Annex II.	Reproduction, foraging. Spreading to proper habitats after breeding. See textbox below the table and in section 3.1.	

1) Percentage of the total biogeographic population at the site

Criterion 2 and 3: The species 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/>.

Criterion 6: The following populations and their total numbers (according to Wetlands International) have been used, when applying the criterion.

- *Anas crecca*, "crecca, North-west Europe" population, 500 000 individuals
- *Anser anser* "anser, NW Europe/South-west Europe, 610 000 individuals
- *Branta bernicla*, "bernicla, Western Siberia/Western Europe" population, 200 000-280 000 individuals
- *Branta leucopsis*, "Russia/Germany & Netherlands" population, 770 000 individuals
- *Calidris alpina*, "alpina, NE Europe & NW Siberia/W Europe & NW Africa" population, 1 330 000 individuals
- *Calidris temminckii*, "Fennoscandia/North & West Africa" population, 30 000-55 000 individuals
- *Charadrius hiaticula*, "hiaticula, Northern Europe/Europe & North Africa" population, 73 000 individuals
- *Clangula hyemalis*, "Western Siberia/North Europe" population, 160 000 individuals
- *Limosa lapponica*, "lapponica, Northern Europe/Western Europe" population, 120 000 individuals
- *Melanitta nigra*, "nigra, W Siberia & N Europe/W Europe & NW Africa" population, 550 000 individuals
- *Mergus serrator*, "serrator, North-west & Central Europe (win)" population, 170 000 individuals
- *Phalacrocorax carbo sinensis*, "sinensis, Northern & Central Europe" population, 380 000- 405 000 individuals
- *Recurvirostra avosetta*, "Western Europe & North-west Africa (bre)", population, 73 000 individuals
- *Tringa glareola*, "North-west Europe/West Africa" population, 900 000-1 200 000 individuals
- *Tringa totanus*, "totanus, Northern Europe (breeding)" population, 200 000-300 000 individuals

The frog species *Pseudepidalea viridis* is a species which naturally occurred in the site before but got extinct. Within the frame of The Life project "Balt coast" the species has been reintroduced to the site since 2000-ies. Reintroduction process is still ongoing in cooperation with the Species Conservation Centre Nordens Ark where the toads are bred in their facilities before releasing them in the ponds at Ottenby.

URL: <http://nordensark.se/>

*Bufo variabilis* (European green toad) occur at the site and the criteria 2 (The Swedish Red List 2015, VU), 3 and 4 (reproduction) can be applied for the species.

### 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
1140. Mudflats and sandflats not covered by seawater at low tide	<input type="checkbox"/>	Sands and muds of the coasts and associated lagoons, not covered by the sea water at low tide, devoid of vascular plants. They are of particular importance as feeding grounds for wildfowl and waders.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.
6410. Molinia meadows on calcareous, peaty or clayey-silt-laden soils	<input checked="" type="checkbox"/>	Molinia meadows of plain to montane levels, on more or less wet nutrient poor soils. They stem from extensive management, sometimes with mowing late in the year.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.
1110. Sandbanks which are slightly covered by sea water	<input checked="" type="checkbox"/>	Sandbanks permanently submerged and surrounded by deeper water. Larger or smaller grain can occur. Water depth is seldom more than 20 meters.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.
7230. Alkaline fens	<input checked="" type="checkbox"/>	Wetlands mostly or largely occupied by peat- or tufa-producing small sedge and brown moss communities developed on soils permanently waterlogged, with a soligenous or topogenous base rich, often calcareous water supply.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.
1630. Boreal Baltic coastal meadows	<input checked="" type="checkbox"/>	Coastal meadows, mostly with low growing plants in the geolittoral zone, interspersed with salt patches. Water is brackish. Tide hardly exists. Mowing and grazing is important.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.
1150. Coastal lagoons	<input checked="" type="checkbox"/>	Lagoons are expanses of shallow coastal salt water, wholly or partially separated from the sea by sandbanks or shingle, or by rocks. Depending on abiotic conditions water volume varies and salinity may vary from brackish to hypersalinity.	The habitat is listed in EC Habitats Directive Annex II. The habitat had an unfavourable status in the Swedish part of the EU continental region in 2013.

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

### 4.1 - Ecological character

The site Ottenby is an island peninsula surrounded by shallow brackish water. The site contains wetlands such as wet coastal grassland, sand and shingle beaches, sandbanks and small bays. The site contains many kinds of biotopes. Cattle, sheep, horses and deer graze the main part of the site. The north-eastern part is a hay-meadow that is mown every year. The south-eastern part of the site includes extensive pastures and the largest remaining unfertilized hay-meadow in Sweden. The flora is rich.

The site provides suitable conditions for a very large and diverse bird fauna. It is important for large numbers of migrating and breeding birds. The shallow waters are good feeding grounds for waders and waterfowl. The well-grazed grasslands provide optimal resting conditions for nesting and migratory bird species. Another crucial issue which promotes a rich bird fauna at the site is that the grazing intensity is not constant throughout the whole area. In some parts the grazing is extensive and in other parts it is more intensive. This factor creates adaptive opportunities to find proper nesting or resting places at the site. Some species that dislike short grass can still prevail in the area by finding proper nesting places in the more extensive pastures with a possibility to find hiding places in higher grass.

### 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		Rare
B: Marine subtidal aquatic beds (Underwater vegetation)		2		Rare
E: Sand, shingle or pebble shores		3		Representative
G: Intertidal mud, sand or salt flats		4		Rare
H: Intertidal marshes		3		Representative
J: Coastal brackish / saline lagoons		2		Rare

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		3		Representative
Fresh water > Flowing water >> Y: Permanent Freshwater springs; oases		0		

#### 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
2: Ponds		4		
4: Seasonally flooded agricultural land		3		Representative

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Deciduous forest	
Boreal Baltic coastal meadows	340

### 4.3 - Biological components

#### 4.3.1 - Plant species

Optional text box to provide further information

#### 4.3.2 - Animal species

##### Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update
CHORDATA/ACTINOPTERYGII	<i>Neogobius melanostomus</i>	Caspian round goby	Potentially	No change

Optional text box to provide further information

The species *Neogobius melanostomus* has had a fast rate of spreading in the Baltic sea the last ten years. It is nowadays present in the waters around the island of Öland which also include waters around the peninsula of Ottenby. The fast spreading of the species may have severe ecological consequences, particularly on mussel and mollusc fauna. This may in long term lead to outcompete other fish species dependent on this type of food source.

#### 4.4 - Physical components

##### 4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfa: Humid continental (Humid with severe winter, no dry season, hot summer)

Climate change may result in that the long-termed episodes of drought continue and get worse in the south-east Sweden. In such scenario, the wetlands may become drier leading to a changed ecological and biotic status of the area.

##### 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 consists of a peninsula, (the most southern part of the island Öland). The site is not influenced by any river basin. The water surrounding the peninsula of Ottenby is shallow, marine (brackish).

##### 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)

Till is the most common Quaternary deposit and covers 25–30 % of the bedrock. The thickness seldom exceeds 3 metres. Wave-washed sediments are the second most frequent deposit. They originate from deposits thoroughly reworked by wave action in an area that was situated below the shore line. These sediments dominate the eastern part of the area, where the ridges mainly consist of sand and fine sand. In the western part, there are ridges where gravel and stones are the dominating fractions. No glaciofluvial deposits have been found.

The most pronounced morphological feature is in the north. It is a ridge formed during the time of the Littorina sea (earlier stage of the Baltic). The width is 50–100 metres at the most and the thickness of the deposit varies between 1 and 3 metres. There are also silty-sandy beach ridge system forms damming obstacles to the direction of the natural surface drainage. Between the ridges there are depressions with small wetlands.

##### 4.4.4 - Water regime

Water permanence

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

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Marine water	<input type="checkbox"/>	No change
Water inputs from rainfall	<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 peninsula of Ottenby has a rather simple water regime consisting of shallow brackish (marine) water. There is no connection to any fresh water river basin. The water levels can fluctuate a little due to changes in the air pressure and strong winds.

#### 4.4.5 - Sediment regime

Sediment regime is highly variable, either seasonally or inter-annually

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

Sediment regime unknown

Please provide further information on sediment (optional):

The site includes the southern tip of the island of Öland. New islands or sandbanks are continuously being created or eliminated by water currents.

#### 4.4.6 - Water pH

Alkaline (pH>7.4)

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

Unknown

#### 4.4.7 - Water salinity

Mxohaline (brackish)/Mxosaline (0.5-30 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 coastal water surrounding the peninsula of Ottenby has moderately increased concentration of nutrients (N and P-values). Therefore the nutritional status of the marine water around the site is classified as not good enough.  
Source: VISS (Water Information System Sweden) URL: <http://viss.lansstyrelsen.se>

#### 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 site itself: i) broadly similar  ii) significantly different

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:

North of the site of Ottenby the landscape changes its character. A very vast area (more than 20000 ha) called Stora alvaret prevails here. The dominant ecosystem of Stora alvaret consists mostly of bare limestone (nature type 6280 in the EC Habitat Directive, Annex II). Population density connected to Stora alvaret is very low, but villages occur at its edges and arable land occurs along the shores.

### 4.5 - Ecosystem services

#### 4.5.1 - Ecosystem services/benefits

Provisioning Services

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

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High
Scientific and educational	Major scientific study site	High
Scientific and educational	Educational activities and opportunities	Medium
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or 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:

The shallow waters and grazed areas provide important feeding sites for waders and waterfowl. They are a prerequisite for high level of diversity at the site.

Within the site:

Outside the site:

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

Description if applicable

The whole area is included in the World Heritage Site "The agricultural landscape of Southern Öland". The site was included in the World Heritage List in 2000 with the following justification: Criterion iv: The landscape of Southern Öland takes its contemporary form from its long cultural history, adapting to the physical constraints of the geology and topography. Criterion v: Södra Öland is an outstanding example of human settlement, making the optimum use of diverse landscape types on a single island.

ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland

Description if applicable

The whole area is included in the World Heritage Site "The agricultural landscape of Southern Öland". The site was included in the World Heritage List in 2000 with the following justification: Criterion iv: The landscape of Southern Öland takes its contemporary form from its long cultural history, adapting to the physical constraints of the geology and topography. Criterion v: Södra Öland is an outstanding example of human settlement, making the optimum use of diverse landscape types on a single island. The grasslands have been managed for a very long time.

iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples

Description if applicable

The maintenance of the ecological character of the site highly dependent on keeping traditional methods of managing these important coastal grass lands by grazing and by mowing. Those methods have a very long tradition at the site and in the whole island of Öland.

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

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
Provincial/region/state government	<input checked="" type="checkbox"/>	<input 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"/>

#### 5.1.2 - Management authority

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

Administrative Board of Kalmar County, Nature Department

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

Administrative Board of Kalmar County

Postal address:

Administrative Board of Kalmar County, Nature Department, SE-391 86 Kalmar

E-mail address:

kalmar@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 checked="" type="checkbox"/>	

##### 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 checked="" type="checkbox"/>	

##### Pollution

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

##### Climate change and severe weather

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

Please describe any other threats (optional):

Ceased grazing and mowing in the site area constitutes the greatest risk and threat to the ecological system of the wet/grasslands. In case of increased pollution of the marine water, it may cause negative effects to the coastal meadows and to water-dependent birds.

#### 5.2.2 - Legal conservation status

##### Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
World Heritage site	Södra Ölands odlingslandskap	<a href="http://www.lansstyrelsen.se/kalmar/sv/om-lansstyrelsen/om-lanet/varldsar/sodra-olands-odlingslandskap/Pages/default.aspx">http://www.lansstyrelsen.se/kalmar/sv/om-lansstyrelsen/om-lanet/varldsar/sodra-olands-odlingslandskap/Pages/default.aspx</a>	whole

##### Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Ottenby NR SAC	<a href="http://www.lansstyrelsen.se/Kalmar/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura2000/Bevarandeplaner/Faststallda%20bevarandeplaner/Mörbylånga%20kommun/OttenbyNR+OttenbySE0330108+083.pdf">http://www.lansstyrelsen.se/Kalmar/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura2000/Bevarandeplaner/Faststallda%20bevarandeplaner/Mörbylånga%20kommun/OttenbyNR+OttenbySE0330108+083.pdf</a>	whole
EU Natura 2000	Ottenby SPA	<a href="http://www.lansstyrelsen.se/Kalmar/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura2000/Bevarandeplaner/Faststallda%20bevarandeplaner/Mörbylånga%20kommun/OttenbyNR+OttenbySE0330108+083.pdf">http://www.lansstyrelsen.se/Kalmar/SiteCollectionDocuments/Svdjur-och-natur/skyddad-natur/natura2000/Bevarandeplaner/Faststallda%20bevarandeplaner/Mörbylånga%20kommun/OttenbyNR+OttenbySE0330108+083.pdf</a>	partly

## National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Bird sanctuary	Ottenby		partly
Nature reserve	Ottenby	<a href="http://www.lansstyrelsen.se/Kalmar/svdjur-och-natur/skyddad-natur/naturreservat/Pages/ottenby.a.spx">http://www.lansstyrelsen.se/Kalmar/svdjur-och-natur/skyddad-natur/naturreservat/Pages/ottenby.a.spx</a>	partly
Site of national importance for nature conservation	Ottenby	<a href="http://nvpub.vic-metria.nu/handlingar/rest/dokument/202873">http://nvpub.vic-metria.nu/handlingar/rest/dokument/202873</a>	whole

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Ottenby	<a href="http://datazone.birdlife.org/site/factsheet/ottenby-iba-sweden">http://datazone.birdlife.org/site/factsheet/ottenby-iba-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	Implemented

## Habitat

Measures	Status
Hydrology management/restoration	Partially implemented

## Species

Measures	Status
Threatened/rare species management programmes	Implemented

## Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Implemented

Other:

A large part of the semi-natural grasslands within the site receive environmental support from the EU Rural Development Programme. Most of the area receives extra support for high biodiversity.

The frog species *Pseudepidalea viridis* (European green toad) is a species who naturally occurred at the site earlier, but got extinct. In the management/action programme for the species the site was assessed as a favourable site to reintroduce the species. The main objective was to establish a population in the shallow ponds. Within the frame of The Life project "Balt coast" the species has been reintroduced to the site since the 2000-ies. Reintroduction process on a yearly basis is still ongoing in cooperation with the Species Conservation Centre Nordens Ark where the toads are bred in their facilities before the toads are introduced to the ponds at Ottenby. In total thousands of individuals have been introduced at the site.

There is also an ongoing action plan for endangered waders on coastal meadows. The programme extends to year 2019. The programme includes the following species: *Philomachus pugnax*, *Limosa limosa* and *Charadrius alexandrinus*.

### 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:

The site has a visitor centre, "Ottenby Naturum". The centre includes an exhibition on birds and bird migration, and the natural and cultural values of the coastal grasslands. Information leaflets are produced, one of which is available in English and German (as well as Swedish). A booklet and two books have also been produced. The bird observatory staff gives guided tours for school classes, tourists, etc. There are bird towers and several walking trails at the site.

### 5.2.6 - Planning for restoration

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

Further information

There are plans to create a marine nature reserve around the peninsula of Ottenby. Investigation of this project has recently begun by the Administrative County Board in Kalmar.

### 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	
Animal species (please specify)	

There is implemented a bird inventory of birds at coastal sites around the island of Öland including the site of Ottenby each 7-th year (long-term monitoring programme).

Monitoring of birds is even performed on a yearly basis by Ottenby Bird Centre.

The Ottenby bird observatory carries on research of migratory birds all the year round. It was established in 1946 and birds have been registered daily ever since. Today about 20 000 birds are ringed each year at the observatory, using nets and traps. Waders are caught with traps, out on the seaweed. This large-scale ringing adds to the knowledge of the birds' migrating ways and their breeding and winter areas. Species, sex and age of each bird are noted. Size, weight, and fat ratio are measured, showing the condition of the bird. This gives important information regarding migration as well as variations in the bird fauna over time (caused by e.g. changes in the environment).

Monitoring of the predators who can threaten waders in the site area (example of such predators is fox and mink). If the population of predators increases to a very high level necessary steps should be taken. Monitoring of *Bufo variabilis* which has been reintroduced into the site in accordance with the LIFE Balt Coast Project during the last years.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

- European Environment Agency. 2003. Europe's environment: the third assessment, p 231. Environmental assessment report No 10. Luxembourg: Office for Official Publications of the European Communities.
  - Administrative Board of Kalmar County. 1999. Skötselplan för Ottenby Naturreservat
  - Administrative Board of Kalmar County. 2003. Guide till naturreservatet Ottenby. Kalmar.
  - Alm Kübler, K. 2001. Holocene environmental change of Southern Öland, Sweden. Uppsala Dissertations from the faculty of Science and Technology 28.
  - Forslund, M. (red). 2001. Natur och kultur på Öland. Länsstyrelsen i Kalmar län.
  - Ekstam, U, Forshed, N, Johansson, O. 1997. Ottenby naturen och historien. Triandrum förlag. Halmstad.
  - Larsson, A. 1983. Ottenby Naturreservat. Dispositions- och skötselplan. Växtekol. Inst. Lunds Universitet. Lund, Sweden.
  - Länsstyrelsen Kalmar län. 2006. Bevarandeplan för Natura 2000-området Ottenby. URL: <http://www.lansstyrelsen.se/Kalmar/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/natura2000/Bevarandeplaner/Faststallda%20bevarandeplaner/Mörbylånga%20kommun/OttenbyNR+OttenbySE0330108+08 3.pdf>
- VISS (Vatteninformationssystem Sverige) URL: <http://viss.lansstyrelsen.se>
- Conservation action plans:
- Ottvall, R. 2015-2019. Åtgärdsprogram för hotade vadare på strandängar. Naturvårdsverket.
- Wirén, M. 2011-2016. Åtgärdsprogram för bevarande av grönfläckig padda, *Bufo viridis*. Naturvårdsverket.

#### 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  
<no file available>
- vi. other published literature  
<2 file(s) uploaded>

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

Please provide at least one photograph of the site:



grazed wetland ( Daniel Hasselbratt, 22-09-2017 )



Ottenby Naturum, The Ottenby bird observatory and lighthouse Långe Jan ( Daniel Hasselbratt, 22-09-2017 )



Vast area of grazed wetland ( Daniel Hasselbratt, 22-09-2017 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1974-12-05