

Ramsar Information Sheet

Published on 8 March 2018 Update version, previously published on : 1 January 2012

Norway Øra



Designation date 24 July 1985
Site number 305
Coordinates 59°09'41"N 10°59'29"E
Area 1 676,00 ha

https://rsis.ramsar.org/ris/305 Created by RSIS V.1.6 on - 8 May 2020

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

Øra is situated in Øsfold County in the south-east of Norway. The site consists of a large estuary where the river Glomma flows into the sea. It is characterized by shallow areas of brackish water with numerous small islands and skerries surrounded by fluvial sediments that the river has deposited. In addition to the estuary, the site also contains meadows, grassland and forest areas.

Glomma drains an area with a diverse geology and climate and the southern part of the river catchment is dominated by soils rich in clay. Freshwater and saltwater meet within the reserve and brackish conditions influence the flora and fauna of the area. Where the water is less than 0.5 m deep the vegetation is dominated by Phragmites australis, Schoenoplectus tabernaemontani and Schoenoplectus maritimus, which often form colonies. Potamogeton perfoliatus was the most important water plant, in particular as winter food for whooper swans, although this pondweed has declined in recent years. Zostera marina and Fucus vesiculosus are found in the outer parts of the reserve.

The area is an important site for breeding, staging, wintering and moulting waterbirds. The most abundant nesting species at present is the great cormorant of the subspecies sinensis, with 992 pairs in 2004. Øra was also the first site where both the mute swan Cygnus olor (1937) and the Caspian tern Hydroprogne caspia were known to have bred in Norway. Øra is also an important site for moulting wildfowl. A total of around 250 bird species are recorded in the area, around 90 of which are known to breed.

Both freshwater and saltwater fish species are found. In general saltwater species dominate in winter, and freshwater species in summer.

2 - Data & location

2.1 - Formal data

2.1.1 - Nan	e and	address	of the	compiler	of this	RIS
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Compiler 1

Name	Ellen Haakonsen Karr
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	11 10 00 00 00

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

From year 2005

To year 2017

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Øra

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

(Update) A Changes to Site boundary Yes O No

(Update) B. Changes to Site area No change to area

2.1.5 - Changes to the ecological character of the Site

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

2.2 - Site location

2.2.1 - Defining the Site boundaries

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

Former maps 0

Boundaries description

The border of the Ramsar site is the same as the border of the Øra Nature Reserve

2.2.2 - General location

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

b) What is the nearest town or population centre?

Fredrikstad

2.2.3 - For wetlands on national boundaries only

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

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 1676

Area, in hectares (ha) as calculated from 1675.41 GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Other scheme (provide name below)	Boreonemoral vegetation zone, slightly oceanic section (Bn-O1)
EU biogeographic regionalization	1. Boreal

Other biogeographic regionalisation scheme

- 1. EU Habitat directive 92/43/EEC
- 2. Zonal division showing the variation in vegetation from south to north and from the lowlands to the mountains, and sectional graduation showing the variation between the coast and inland (In: Moen, A. 1998. Nasjonalatlas for Norge; vegetasjon. Statens kartverk, Hønefoss).

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 area acts as a sedimentation trap for nutrients from further upstream.

A large estuary with brackish areas, mudflats and large areas of reed forests, as well as islands and beaches with salt marsh. Formed by Norway's largest river (Glomma) which drains 13% of the total area Other reasons of the country. Despite the closeness to a large major town and important industrial areas, large areas are barely exploited. Large variations in water levels, as well as tidal currents and the effects of the wind pushing saltwater from the south and south-west, result in large variations in water salinity.

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

Justification

The site supports a high diversity of both birds and fish species, and 256 different bird species have been registered on the site (2014).

- ☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions
- ☑ Criterion 7 : Significant and representative fish

Øra has one of the most species-rich fish communities in Norway with 41 known species, including 18 of Justification the 27 freshwater species known in Norway. The vegetation in the brackish areas is relatively speciespoor as few can cope with large variations in salinity.

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
Carex hartmanii		V	\checkmark				National Red List: Considered as VU	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Centaurium littorale		Ø	Ø				National Red List: Considered as VU	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Centaurium pulchellum			2		LC ●許 ●開			Criterion 3: Atthough not threatened (NT on national list) this species is rare and is an important species in the tidal Meadows.
Gentianella uliginosa		v	V				National Red List: Considered as EN	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Odontites litoralis litoralis			Ø					Criterion 3: Atthough not threatened (NT on national list) this species is rare and is an important species in the tidal Meadows.
Ophioglossum vulgatum		Ø	Ø				National Red List: Considered as VU	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Potamogeton pusillus		v	Ø		LC		National Red List: Considered as EN	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Radiola linoides		V	>				National Red List: Considered as EN	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.
Rumex hydrolapathum			2		LC ●数 ●簡			Criterion 3: Although not threatened (NT on national list) this species is rare and is an important species in the tidal Meadows.
Stellaria palustris		Ø					National Red List: Considered as EN	Criterion 2: Nationally Red-listed vascular plants found in the area include this species.

14 to 15 forms of to the Notice of Doublint 0045		
It is referred to the National Red List 2015.		
it to rotottod to the reduction tod List Lotte.		

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

Phylum	Scientific name	Common name	Species qualifies under criterion	criterion	Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Birds												
CHORDATA/ AVES	Acrocephalus scirpaceus	Eurasian Reed Warbler						LC Sign				Criterion 4: This species breeds at the site.
CHORDATA/ AVES		Eurasian Skylark; SkyLark	2200					LC				Criterion 4: This species feeds at the saltmarshes and meadows, and is most likely breeds at the site.
CHORDATA/ AVES	Anas acuta	Northern Pintail						LC Sign			National Red List: Considered as VU	Criterion 4: Important staging area for this species.

Phylum	Scientific name	Common name	Species qualifies under criterion	Species contributes under criterion 3 5 7	Size		% occurrence 1)	IUCN Red List	CMS Appendix I	Other Status	Justification
CHORDATA/ AVES	Anas clypeata	Northern Shoveler								National Red List: Considered as VU	Criterion 4: The area is important during migration for this national red-listed species.
CHORDATA/ AVES	Anas crecca	Green-winged Teal; Eurasian Teal						LC			Criterion 4: Important staging area for this species.
CHORDATA/ AVES	Anser anser	Greylag Goose						LC other			Criterion 4: Important staging area for this species.
CHORDATA/ AVES	Anthus pratensis	Meadow Pipit						NT			Criterion 4: This species breeds at the site.
CHORDATA/ AVES	Aythya fuligula	Tufted Duck						LC ots			Criterion 4: Important staging and wintering site for this species. Possibly breeding.
CHORDATA/ AVES	Aythya marila	Greater Scaup						LC Str		National Red List: Considered as VU	Criterion 4: The area is important during migration for this national red-listed species.
CHORDATA/ AVES	Bucephala clangula	Common Goldeneye			1000			LC Single			Criterion 4: During spring and autumn migration hundreds of waterbirds gather and the area is important as a foraging site, such as for over 1000 individuals of this species in spring.
CHORDATA/ AVES	Cygnus cygnus	Whooper Swan			150	2017		LC Single		Annex II, Bern Convention	(App. 150 ind. observed in 2017). Criterion 4: Important wintering site for this species.
CHORDATA/ AVES	Cygnus olor	Mute Swan						LC			Criterion 4: Important staging and feeding area for this species.
CHORDATA/ AVES	Emberiza schoeniclus	Common Reed Bunting; Common Reed-Bunting; Reed Bunting						LC © iii © iiii			Criterion 4: Important breeding site for this species.
CHORDATA/ AVES	Hirundo rustica	Barn Swallow						LC Singer			Criterion 4:The reedbeds are important for this species.
CHORDATA/ AVES	Mergus merganser	Common Merganser						LC Single			Criterion 4: Important wintering and feeding site for this species.
CHORDATA/ AVES	Mergus serrator	Red-breasted Merganser						LC Star			Criterion 4: Important staging and feeding area for this species.
CHORDATA/ AVES	Motacilla flava	Western Yellow Wagtail						LC Single		Annex II, Bern Convention	Criterion 4: Important breeding and feeding area for this species.
CHORDATA/ AVES	Numenius arquata	Eurasian Curlew						NT		National Red List: Considered as VU	Criterion 4: Important staging area for this species.
CHORDATA/ AVES	Pandion haliaetus	Western Osprey, Osprey						LC ©SP		Emerald Network	Criterion 4: Regularly seen hunting in the area.
CHORDATA/ AVES	Panurus biarmicus	Bearded Reedling			15	2015		LC St Str			(15 pairs) Criterion 4: important breeding area for this quite rare species that only breeds a few places in Norway and in small numbers.
CHORDATA/ AVES	Phalacrocorax carbo sinensis	Great Cormorant			1000	2004-2013					(1000 pairs) Criterion 4: This species breeds on the site.
CHORDATA/ AVES	Rallus aquaticus	Water Rail	2 200					LC other		National Red List: Considered as VU	Criterion 4: important wintering site for this species.
CHORDATA/ AVES	Somateria mollissima	Common Eider						NT			Criterion 4: Breeding site for this species.

Phylum	Scientific name	Common name	Specie qualifie under criterio 2 4 6	es con	pecies tributes under iterion	Size F	Period of pop. Est. oc	currence	UCN Red / List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA/ AVES	Sturnus vulgaris	European Starling							LC or				Criterion 4: The saltmarshes and meadows are important feeding areas for this species.
CHORDATA/ AVES	Tadorna tadorna	Common Shelduck							LC ●辭			Annex II, Bern Convention	Criterion 4: Important staging and feeding area for this species.
CHORDATA/ AVES	Vanellus vanellus	Northern Lapwing	990						NT ●部			National Red List: Considered as VU	Criterion 4: Important staging and feeding area for this species.
Fish, Mollusc	and Crustacea												
ACTINOPTERYG		Aral bream							LC OTSF				Criterion 7: It is one of the common freshwater species.
CHORDATA/ ACTINOPTERYGI		Matje cured herring							LC other				Criterion 7: It is one of the dominant saltwater species.
CHORDATA/ ACTINOPTERYGI	Coregonus lavaretus	Baltic whitefish				2			VU ●\$: ●®				Criterion 7: It is one of the dominant freshwater species.
ARTHROPODA/ MALACOSTRACA	Corophium Volutator												Criterion 4: This species lives in huge numbers in the mud and is an important source of food for several bird species.
CHORDATA/ ACTINOPTERYGI	Gadus macrocephalus												Criterion 7: It is a common species on the site.
CHORDATA/ ACTINOPTERYGI	Leuciscus idus	Golden orfe							LC Star				Criterion 7: It is one of the common freshwater species.
CHORDATA/ ACTINOPTERYGI		Common dace							LC om				Criterion 7: It is one of the common freshwater species.
CHORDATA/ ACTINOPTERYGI		Golden cutlet							LC om				Criterion 7: It is one of the dominant saltwater species.
ACTINOPTERYG		Perch							LC OTSF				Criterion 7: It is one of the common freshwater species.
CHORDATA/ ACTINOPTERYGI		Baltic flounder		100					LC Sign				Criterion 7: It is a common species on the site.
CHORDATA/ ACTINOPTERYGI		European plaice							LC Sign				Criterion 7: It is a common species on the site.
ACTINOPTERYG		Sillock											Criterion 7: It is one of the dominant saltwater species.
CHORDATA/ ACTINOPTERYGI	Rutilus rutilus								LC other				Criterion 7: It is one of the common freshwater species.
ACTINOPTERYGI		Pikeperch; Pikeperch; Pikeperch; Pikeperch; Europeanpike- perch							LC Single				Criterion 7: It is one of the common freshwater species.
CHORDATA/ ACTINOPTERYGI	Sprattus sprattus	European sprat											Criterion 7: It is a common species on the site.
Others													
ANNELIDA/ POLYCHAETA	Alkmaria romijni	Tentacled lagoon worm	990									National Red List: Considered as VU	Criterion 4: This site has the only confirmed population of this species nationally. Aspecies adapted to brackish water, lives in naturally small populations and is therefore sensitive to human impacts.

Phylum	Scientific name		Species qualifies under criterion	criterion	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
ANNELIDA/ POLYCHAETA	Hediste diversicolor	estuary ragworm		0000							Criterion 4: This species lives in the mud and is an important source of food for several bird species.

¹⁾ Percentage of the total biogeographic population at the site

It is referred to the National Red List 20105.

Criterion 4: The area is an important site for breeding, staging, wintering and moulting waterbirds. Øra includes several small islands and skerries and is surrounded by rich littoral areas, such that in sum Øra is an area rich in a number of species. During spring and autumn migration hundreds of waterbirds gather and the area is important as a foraging site.

Together with Nordre Øyeren, Dokkadeltaet by Randsfjorden, Lågendeltaet and Åkersvika by Mjøsa, Øra is a major part of an important system of wetlands used by migratory birds inland in southern Norway.

Criterion 7: None of the 41 species of fish recorded can be classified as threatened, although with 23 freshwater species and 2 saltwater species Øra is one of the most species-rich sites in the country.

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
Tidal meadows	v	Southern tidal meadows with several red- listed species.	Tidal meadows containing a high diversity of interesting and red-listed species. This is a nature type in decline nationally.
Underwater meadows		Rich underwater vegetation with species like Potamogeton perfoliatus	Underwater vegetation is of high importance for both birds and fish in the area.
Reedbeds		Large stands with Phragmites australis, Schoenoplectus tabernaemontani and Schoenoplectus maritimuss	Important for many species, such as Barn Swallow Hirundo rustica and Common Starlings.

Optional text box to provide further information

Underwater meadows: Vegetation adapted to the brackish water. Potamogeton perfoliatus was one of the characteristic species for Øra, but has declined in recent decades, most likely due to changes in salinity. As a result, Øra's importance for the wintering whooper swan has probably also declined somewhat. Zostera marina and Fucus vesiculosus are found in the outer parts of the reserve.

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

4.1 - Ecological character

The site is a large estuary where the river Glomma flows into the sea. It is characterized by shallow areas of brackish water with numerous small islands and skerries surrounded by fluvial sediments that the river has deposited. The area is within the boreonemoral zone, and the aquatic habitats range from shallow eutrophic vegetation communities with large beds of reed and club-rush in areas with low salinity, to areas of seawater dominated by communities of bladder seaweed. Potamogeton perfoliatus was one of the characteristic species but has declined dramatically. The islands are either wooded or composed of saltmarshes and pastures as the result of many years of farming. The invertebrate fauna is relatively species-poor, as is usual in brackish areas, yet has remained stable in recent decades. The fish fauna is affected by the brackish conditions, and both freshwater and saltwater species are present. The area has a rich birdlife, and about 250 species are recorded, of which around 90 species breed.

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		
D: Rocky marine shores		4		
E: Sand, shingle or pebble shores		0		Representative
F: Estuarine waters		2		Representative
G: Intertidal mud, sand or salt flats		3		Representative

4.3 - Biological components

4.3.1 - Plant species

<no data available>

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/AVES	Cygnus columbianus	Tundra Swan				Unusual winter guest
CHORDATA/AVES	Podiceps grisegena	Red-necked Grebe				Unusual winter guest
CHORDATAAVES	Acrocephalus schoenobaenus	Sedge Warbler				Observed in small numbers, possibly breeding.
CHORDATAAVES	Hydroprogne caspia	Caspian Tern				This nationally unusual species is regularly observed at the site.

Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update		
CHORDATA/AVES	Branta canadensis	Canada Goose	Potentially	unknown		

4.4 - Physical components

4.4.1 - Climate

Subregion
Dfb: Humid continental (Humid with severe winter, no dry season, warm summer)

Coastal climate. Winds in winter are mainly northerly, with predominately south- westerly winds in summer. Average temperatures in the period 1961-1990 were – 3,70C in January and 16,00C in July. Annual precipitation in the same period was 880 mm. The climate in the catchment area is generally continental.

4.4.2 - Geomorphic setting

a) Mnimum 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 par	t of river basin 🗹
	More than o	ne river basin 🗆
	No	tin river basin
		Coastal 🗹
Please name the river basir	n or basins. If the site lies in a s	sub-basin, please also name
Glomma River, Norwe		
4.4.2 Call		
4.4.3 - Soil		
	(Lindata)	Mineral ☑
	(Optiate) Changes	at RIS update No change ©
	() ((- (- (- (- (- (- (- (- (- (- (-	Organic 🗹
		at RIS update No change ©
		le information
Are soil types subject to	change as a result of changin	g hydrological Yes O No
	ons (e.g., increased salinity or	acidilication)?
Please provide further inform	ater (estuary) with an acc	umulation if clay silt s
maron and one more	nor (ootaary) maran aoo	amadan melay, em, e
4.4.4 - Water regime		
Water permanence		
Presence? Usually permanent water	Changes at RIS update	
present		
Source of water that maintain	s character of the site	
Presence?	Predominant water source	Changes at RIS update
Marine water		No change
Water inputs from surface water		No change
Water inputs from rainfall		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	
, ,		
	on the water regime and its de	
	very shallow, with a few of everal square kilometres	
tides.		
4.4.5 - Sediment regim	e	
Significant accretion o	or deposition of sediments occ	urs on the site 🗹
	(Update) Changes	at RIS update No change ©
		ime unknown 🗆
Please provide further inform	mation on sediment (optional):	
	iments from Glomma (No	orway's longest river) a
	muddy water from Glor	
4.4.6 - Water pH		
		Unknown 🗹
4.4.7 - Water salinity		
-	Mixohaline (brackish)/Mixosali	ne (0.5-30 a/l) 🔽
	, , , , , , , , , , , , , , , , , , , ,	at RIS update No change ©
	Changes	_
		Unknown 🗆
4 4 8 - Dissolved or aus	spended nutrients in wate	or.
susyuved of sus برج.خ	spended numents in Wat	_
		Unknown 🗹

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

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

The area is bordered in the north and north-west by industrial areas and a waste disposal site. To the north-east and east, there are low wooded hills as well as grazed and cultivated land. To the south and south- west, there is the sea. Filling in of shallow waters for future industrial purposes takes place in the inner part of the bay at Gansrødbukta, thus reducing the amount of shallow water which naturally makes up the estuary.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

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

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

Regulating Senices

r togulating our vices		
Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	Medium
Recreation and tourism	Recreational hunting and fishing	Medium
Scientific and educational	Educational activities and opportunities	Medium
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Medium

Other ecosystem service(s) not included above:

The area acts as a sedimentation trap for muddy water from Glomma, although this function has been reduced following the filling in of the area at Øratangen.

The largest island - Hestholmen - is used for recreational purposes including birdwatching.

The area is used by local residents, mainly for birdwatching, as well as some boating, rod-fishing and other recreational activities.

In connection with establishment of the nature reserve, a number of extensive scientific studies were carried out. Øra has also been used for smaller scale studies, and a great number of publications related to the area exist.

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

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 $\hfill\Box$ 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 welland

<no data available>

4.6 - Ecological processes

<no data available>

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

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

Category	Within the Ramsar Site	In the surrounding area								
National/Federal government	/									
Local authority, municipality, (sub)district, etc.	2	2								

Private ownership

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

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

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Mainly municipal, some private and state.

in the surrounding area: Partly private, partly municipal.

5.1.2 - Management authority

Please list the local office / offices of any	County Governor of Østfold
agency or organization responsible for	
managing the site:	
Postal address:	County Governor of Østfold, P.b. 325, 1502 Moss
E-mail address:	postmottak@fmos.no

5.2 - Ecological character threats and responses (Management)

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

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Commercial and industrial areas	Low impact	Medium impact	✓	No change	✓	No change

Natural system modifications

affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified/others	Medium impact	Medium impact	✓	No change		No change

Pollution

1 Olduoti						
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	Medium impact	Medium impact		No change	>	No change

Please describe any other threats (optional):

Within the Ramsar site:

The site is located in a populated area that are characterized by surrounding industry activities, and a consequence of this is that there is always a certain risk for pollution and other effects. However, this has been the case since the site was registered and there are most likely no new threats. Cessation of hay-cutting, grazing and tree-felling has resulted in an increase in overgrowth of nearby areas and islands within the estuary, with the result that some species of plants and birds have become rarer or even disappeared. Measures to reverse this trend have been implemented.

In the past the area between Glomma and Gansrødbukta in the inner part of Øra was filled in, and this altered the watercourse and resulted in higher salinity and with negative consequences for Potamogeton perfoliatus. The Øra channel was then created to correct this somewhat and to lead fresh water back into the northern part of Øra, and it is today vital to preserve good ecological status in the area.

In 2017 there were performed dredging and other management work in the Øra channel. This was done to make it easier for ship traffic to enter the channel. The work was done in close cooperation with local environment authorities to ensure that natural values would not be threatened, and several corrective/restoring measures were required in order to achieve this. The situation will be monitored closely.

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
nature reserve	Øra		whole

5.2.3 - IUCN protected areas categories (2008)

la 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
Il Natural Monument: protected area managed mainly for conservation of specific natural features
VHabitat/Species Management Area: protected area managed mainly for conservation through management intervention
/Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
A Managed Resource Protected Area: protected area managed mainly —

for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

	01.1
Measures	Status
Legal protection	Implemented

Habitat

Measures	Status	
Habitat manipulation/enhancement	Partially implemented	

Human Activities

Measures	Status
Fisheries management/regulation	Implemented
Harvest controls/poaching enforcement	Implemented

Other:

A minor expansion of the reserve is being considered, mainly to encompass more saltmarsh.

The saltmarshes and natural meadows in the area have formerly been grazed and cut. Overgrowth has resulted in a reduction in breeding birds preferring managed meadows and open landscapes. The management authorities have therefore restarted management by cutting and grazing in recent years, in order to recreate the hay meadows and to prevent further overgrowing.

The largest island – Hestholmen – and part of the shoreline nearby consists of saltmarsh and grazing land. Here some management in the form of grazing and cutting takes place. Fishing with potentially damaging equipment such as nets is not permitted within the reserve. Hunting is forbidden within the reserve.

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 O No ●

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

processes with another Contracting Party?

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

A bird observation tower has been built on the outer part of Øratangen beside an artificial channel. An information brochure has been produced.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

5.2.7 - Monitoring implemented or proposed

RIS for Site no. 305, Øra, Norway

<no data available>

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

"Øraundersøkelsene" 1973-1977. 7 rapporter av Pethon, P., Hovde, H.R. & Gjelland, A. Zoologisk Museum, Norsk inst. for vannforskning og Universitetet i Oslo. (In English – Research at Øra (7 reports)).

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Henriksen S and Hilmo O (2015) Norwegian Red List of Species 2015.

Krohn, O. (red.) 1990. Fuglelivet i Øra-området 1985-88. Østfold-Natur 29: 1-42. (In Norwegian – On Birdlife of Øra).

Viker, M & Bosy, R.G. (red.) 1986. Fuglelivet i Øra-området - Med en fullstendig litteraturoversikt. Østfold-Natur nr. 25:1-143. (In English – On the Birdlife of Øra, including literature list).

Viker, M. & Fredriksen, Å.S. 1995. Omitologiske registreringer i Øraområdet 1989-1992. Fylkesmannen i Østfold, miljøvernavd. rapp. 10-1995: 1-64 (In English – On Bird observations at Øra 1989-1992).

Viker, M. 2002. Ornitologiske registreringer i Øraområdet 1993-1997. Fylkesmannen i Østfold, miljøvernavd. rapp. 4-2002: 1-67. (In English – On Bird observations at Øra 1993-1997).

Fylkesmannen i Østfold. 2014. Forvaltningsplan for Øra naturreservat. Fylkesmannen i Østfold, miljøvernavd. (In English – Management plan for Øra nature reserve).

6.1.2 - Additional reports and documents

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

<no file available>

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

<no file available>

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

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<1 file(s) uploaded>

vi. other published literature

<no file available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site



View from the bird observation Tower towards Løv øya (Gunnar Bjare, County Governor of Østfold, 19-07-2006)



Reed forest in the bay Gansrødbukta. (Gunnar Bjare, County Governor of Østfold, 24-05-2013)



Hestholmen. (Gunnar Bjare County Governor of Østfold, 30-07-2016)



Hestholmen. (Gunnar Bjare, County Governor of Østfold, 30-07-2016)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1985-07-24