



Ramsar Information Sheet

Update version, previously published on 1 January 1991

Sweden Umeålvens delta



Designation date	12 June 1989
Site number	438
Coordinates	63°44'12"N 20°19'17"E
Area	1 889,00 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 is a large delta formed by the river Umeälv at the river outlet to the Gulf of Bothnia. The delta includes several valuable areas with primary forests, alluvial forests and transition mires. The wetland area is surrounded by forest land and arable land. The delta is changing constantly as fine grained material is deposited by the river in the area and the still on-going land elevation process. The site is very important for migrating and breeding birds and an important spawning site for fish.

All together more than 270 different bird species have been reported from the site. About 100 bird species regularly nests in the area of which about 40 are linked to wetlands. In addition, 25 bird species has been noticed temporarily under circumstances that indicate nesting.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Henrik Sporrang (NFP Jenny Lonnstad)
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2.1.2 - Period of collection of data and information used to compile the RIS

From year	2007
To year	2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Umeälvens delta
Unofficial name (optional)	River Umeälv delta

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 checked="" 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 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 (likely)
(Update) Are the changes	Positive <input checked="" type="radio"/> Negative <input type="radio"/> Positive & Negative <input type="radio"/>
(Update) No information available	<input checked="" type="checkbox"/>
(Update) Changes resulting from causes operating within the existing boundaries?	<input checked="" type="checkbox"/>
(Update) Changes resulting from causes operating beyond the site's boundaries?	<input type="checkbox"/>
(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?	<input type="checkbox"/>
(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?	<input type="checkbox"/>
(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.	

i) The site is protected as a Natura 2000 (SCI + SPA) area and as a nature reserve, (new decision 2008). For management and conservation value reasons the Ramsar site boundary has been changed (extensions and restrictions), in purpose of having corresponding borders for the Ramsar site and the recent nature reserve. The areas excluded from the Ramsar site is not of the same interest for birds as the rest of the area and mostly contain open water, dry land and built up areas. There are small areas with some wetland values in the excluded parts. The change of the boundary is not a due to the new railway.

ii) A new state-owned railway has recently been built through the northern part of the Ramsar site, including a new bridge over river Umeälven and embankment constructions. The railway traffic started in August 2010. Action has been taken by the Swedish state to compensate negative effects to the birdlife and habitats within the site due to the new railway. Compensation activities include preserving adjacent areas of deciduous and coniferous forest as nature reserves, cutting down forest and start grazing shore areas within the site to increase contact between wetland areas and adjacent farmland areas to facilitate birdlife, and to restore and create wetlands by flooding farmland.

(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 (optional)

The new boundary (2013) corresponds to the nature reserve Umeälvens delta.

2.2.2 - General location

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

b) What is the nearest town or population centre?

2.2.3 - For wetlands on national boundaries only

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

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

2.2.4 - Area of the Site

Official area, in hectares (ha):

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

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Udvardy's Biogeographical Provinces	The Palearctic Realm: 3 West Eurasian Taiga
Bailey's Ecoregions	130 Subarctic Division
WWF Terrestrial Ecoregions	Scandinavian - Russian taiga
Marine Ecoregions of the World (MEOW)	24. Baltic seas
EU biogeographic regionalization	Boreal
Freshwater Ecoregions of the World (FEOW)	Ecoregion 406: Northern Baltic drainages

Other biogeographic regionalisation scheme

Nordiska ministerrådet, 1977. Naturgeografisk regionindelning av Norden. NU B 1977:34: NMR 29a, kustslätter och dalar med finsediment kring norra Bottenviken: (Coastal plains and valleys with fine-grained sediment by the gulf of Bothnia)

Pan-European marine ecosystems (EEA 2007): 23 Baltic Sea

DMEER 2002 (EEA): Scandinavian - Russian taiga

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

This site is important for sediment and nutrient retention and export. It also plays an important role in terms of water purification and maintenance of water quality. The hydrological services provided are representative.

Other reasons

The site is a representative example of a river estuary with a delta including natural vegetation and natural or semi-natural delta processes in the boreal region. See description under ecological communities and what the site is like.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

The site supports populations of species especially important for maintaining the biological diversity of the EU Boreal biogeographic region, primarily large numbers of ducks, geese and waders. It also supports many species living in Alnus forests. Water fowl do either breed or stage here.

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

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

>30 000

Start year

2000

Source of data:

Nilsson 2000, Hansson 2004, Artportalen, Local bird life.

- Criterion 6 : >1% waterbird population

- Criterion 8 : Fish spawning grounds, etc.


























Justification

The site is an important spawning site for brackish water living pike (*Esox lucius*) and is passed by virtually the whole population of Baltic salmon (*Salmo salar*) and Brown trout (*Salmo trutta*) while migrating to spawning territories in the river Vindelälven.

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

There are no known plant species populations within the site that are of international importance.

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
Birds																		
CHORDATA/AVES	 <i>Anas acuta</i>	Northern Pintail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VJ).	Important feeding site. See textbox below.
CHORDATA/AVES	 <i>Anas crecca</i>	Eurasian Teal; Green-winged Teal	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7000	2000-2004	1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 6: North West Europe population is 500 000 individuals according to VM. Reference for site population is: Nilsson 2000, Hansson 2004.
CHORDATA/AVES	 <i>Anas penelope</i>	Eurasian Wigeon	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15000		1		<input type="checkbox"/>	<input type="checkbox"/>		Criterion 6: W Siberia & NE Europe/NW Europe population is 1 500 000 individuals according to VM. Reference for site population: Hansson mfl 2000, Nilsson 2000, Hansson 2004.
CHORDATA/AVES	 <i>Anser erythropus</i>	Lesser White-fronted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Swedish Red List 2015 (CR). EC Birds Directive Annex II.	Historically important feeding site. See textbox below.
CHORDATA/AVES	 <i>Anser fabalis</i>	Bean Goose	<input type="checkbox"/>	<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"/>	4000		10	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Important feeding site. Criterion 6: NE Europe /NW Europe population, 40000-45000 individuals according to VM. Reference to site population: Hansson mfl 200, Nilsson 2000, Hansson 2004.
CHORDATA/AVES	 <i>Cygnus cygnus</i>	Whooper Swan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	800		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Important feeding site. Criterion 6: North-west Mainland Europe (59 000 individuals). Ref. (Hansson mfl 2000). See textbox below.
CHORDATA/AVES	 <i>Dendrocopos leucotos</i>	White-backed Woodpecker	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (CR). EC Birds Directive Annex II.	Potential nesting site. See textbox below.
CHORDATA/AVES	 <i>Limosa lapponica</i>	Bar-tailed Godwit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VJ). EC Birds Directive Annex II.	Regular feeding site. See textbox below.
CHORDATA/AVES	 <i>Limosa limosa</i>	Black-tailed Godwit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (CR).	See textbox below.
CHORDATA/AVES	 <i>Mergus merganser</i>	Common Merganser	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4000		2	LC 	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 6: NW & Central Europe population (winter) population is 266 000 individuals according to VM. Reference to site population: Hansson mfl 2000, Nilsson 2000, Hansson 2004.
CHORDATA/AVES	 <i>Philomachus pugnax</i>	Ruff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4000				<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (EN). EC Birds Directive Annex II.	Important feeding site. See textbox below.
Fish, Mollusc and Crustacea																		
CHORDATA/ACTINOPTERYGII	 <i>Esox lucius</i>	Common pike	<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 spawning site. See textbox below.
CHORDATA/ACTINOPTERYGII	 <i>Salmo salar</i>	Baltic salmon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Migrating through the site. More than 1 % of the Baltic salmon. <i>Salmo salar</i> population in the FEOW Ecoregion 406: Northern Baltic drainages migrate through the site. (Naturvårdsverket 2013).
CHORDATA/ACTINOPTERYGII	 <i>Salmo trutta fario</i>	Brown trout	<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"/>		Migrating through the site. See textbox below.

1) Percentage of the total biogeographic population at the site

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

Criteria 2, 3, 4, 5: Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>.

Criterion 4: The large numbers of ducks, geese and wader species makes the site a key staging area for several north Scandinavian wetland birds. For many birds the delta constitutes the last stop-over site while waiting for the ice breakup in the mountainous breeding areas.

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
Estuaries	<input type="checkbox"/>	Estuarie of river Umeälven at the Gulf of Bothnia	Shallow water area with high productivity and high biological diversity.
Boreal Baltic sandy beaches with perennial vegetation	<input type="checkbox"/>	Beaches with sandy and/or silty sediments with graminide vegetation	Beaches important for shelter and feeding for numbers of waterfowl
Alluvial forests with <i>Alnus glutinosa</i> and <i>Betula pubescens</i>	<input type="checkbox"/>	Herbrich moist aluvial forest	Important feeding and nesting biotopes for woodpeckers, warblers etc

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

4.1 - Ecological character

The main habitat at the site consists of open areas of freshwater/slightly brackish water. The area also includes sedge dominated shore land, periodically exposed dunes of sand and fine grained material, grazed beach meadow and deciduous and conifer forests.

The site contains the Natura 2000 wetland habitats Estuaries (1130), Boreal Baltic sandy beaches with perennial vegetation (1640), Molinia meadows on calcareous, peaty or clayey-siltladen soils (Molinion caeruleae) (6410), Transition mires and quaking bogs (7140), Natural forests of primary succession stages of landupheaval coast (9030) and Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (Alno-Padion, Alnion incanae, Salicion albae) (91E0).

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
F: Estuarine waters		1	1200	Representative

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 > Flowing water >> M: Permanent rivers/ streams/ creeks		2	400	Representative
Saline, brackish or alkaline water > Marshes & pools >> Sp: Permanent saline/ brackish/ alkaline marshes/ pools		4	100	Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	100	Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Farmland	
Coniferous forest	100

^(EOD) Habitat connectivity Unknown

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Persicaria foliosa</i>	null	The FEOW ecoregion Baltic seas host most of the global population, ca 50% of known global localities are in Sweden.

Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
<i>Elyda canadensis</i>	null	Potentially	No change

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	Calidris alpina		3600			
CHORDATA/AVES	Circus cyaneus	Northern Harrier				EC Birds Directive Annex II.
CHORDATA/AVES	Gallinago media	Great Snipe				IUCN =NT, Swedish Red List 2010 (NT), EC Birds Directive Annex II.
CHORDATA/AVES	Grus grus	Common Crane	500			EC Birds Directive Annex II.
CHORDATA/AVES	Haliaeetus albicilla	White-tailed Eagle				EC Birds Directive Annex II.
CHORDATA/AVES	Limicola falcinellus	Broad-billed Sandpiper	500			
CHORDATA/AVES	Pluvialis apricaria	European Golden Plover;European Golden-Plover				EC Birds Directive Annex II.
CHORDATA/AVES	Tringa glareola	Wood Sandpiper				EC Birds Directive Annex II.

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
D: Mbist Mid-Latitude climate with cold winters	Dfc: Subarctic (Severe winter, no dry season, cool summer)

Not yet as we know about. There is future risk that water flows in the catchment area changes so much that it may affect the erosion and deposition of material in the delta. There may also be flooding during times of the year when water levels normally aren't high and that can affect the species living in the flooded areas.

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 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 catchment of the river Umeälven covers 16 800 km², stretching from the border between Sweden and Norway in the Scandinavian mountain range, to the Gulf of Bothnia.

For more information on the physical features of the site and a description of the catchment area, see Section 6.1.2 Additional reports and documents > ii. a detailed Ecological Character Description (ECD)."

4.4.3 - Soil

Mneral

(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)

See annexed file on bedrock, soils and geomorphology under Additional material.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

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

Water destination

Presence?	Changes at RIS update
Marine	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels fluctuating (including tidal)	No change

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

For more information on the physical features of the site and a description of the catchment area, see Section 6.1.2 Additional reports and documents > ii. a detailed Ecological Character Description (ECD)."

(ECD) Connectivity of surface waters and of groundwater	Unknown
(ECD) Stratification and mixing regime	Unknown

4.4.5 - Sediment regime

Significant erosion of sediments occurs on the site

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

Significant accretion or deposition of sediments occurs on the site

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

Significant transportation of sediments occurs on or through the site

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

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 significance is in comparison with other boreal waters. Erosion, transportation and deposition of material is a normal processes within a site containing a delta such as this.

For more information on the physical features of the site and a description of the catchment area, see Section 6.1.2 Additional reports and documents > ii. a detailed Ecological Character Description (ECD)."

(ECD) Water turbidity and colour	Unknown
(ECD) Light - reaching wetland	Unknown
(ECD) Water temperature	0-26 degrees Celsius

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)

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

Unknown

Please provide further information on pH (optional):

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

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

Mixohaline (brackish)/Mixosaline (0.5-30 g/l)

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

Unknown

Please provide further information on salinity (optional):

Unknown

(ECD) Dissolved gases in water	Unknown
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4.4.8 - Dissolved or suspended nutrients in water

Mesotrophic

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

Unknown

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

Unknown	
(EOD) Dissolved organic carbon	Unknown
(EOD) Redox potential of water and sediments	Unknown
(EOD) Water conductivity	Unknown

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

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

- Surrounding area has greater urbanisation or development
- Surrounding area has higher human population density
- Surrounding area has more intensive agricultural use
- Surrounding area has significantly different land cover or habitat types

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

The delta constitutes a shallow water area. Surroundings constitutes of farmland, forest land and populated area (city, roads, railroad, airport etc) and open deeper brackish sea.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Pollution control and detoxification	Water purification/waste treatment or dilution	Low

Cultural Services

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

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	Medium
Soil formation	Sediment retention	Medium
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	Medium

Other ecosystem service(s) not included above:

No

Within the site: 1000s

Outside the site: 1000s

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

4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland

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

iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

(EOD) Primary production	Unknown
(EOD) Nutrient cycling	Unknown
(EOD) Carbon cycling	Unknown
(EOD) Animal reproductive productivity	Unknown
(EOD) Vegetational productivity, pollination, regeneration processes, succession, role of fire, etc.	Unknown
(EOD) Notable species interactions, including grazing, predation, competition, diseases and pathogens	Unknown
(EOD) Notable aspects concerning animal and plant dispersal	Unknown
(EOD) Notable aspects concerning migration	Unknown
(EOD) Pressures and trends concerning any of the above, and/or concerning ecosystem integrity	Unknown

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

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

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

Private ownership

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

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

No complementary information.

5.1.2 - Management authority

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

Länsstyrelsen Västerbotten
S - 901 86 UMEÅ, SWEDEN

Stiftelsen Naturvård vid nedre Umeälven

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

Björn Jonsson

Postal address:

Länsstyrelsen Västerbotten
901 86 UMEÅ, SWEDEN

E-mail address:

bjorn.jonsson@lansstyrelsen.se

5.2 - Ecological character threats and responses (Management)

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

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Housing and urban areas	Low impact	Low impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Commercial and industrial areas	Low impact	Low impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Tourism and recreation areas	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dredging	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Canalisation and river regulation	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Livestock farming and ranching	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Annual and perennial non-timber crops	Low impact	Low impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Wood and pulp plantations	Low impact	Low impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Energy production and mining

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

Transportation and service corridors

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

Biological resource use

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

Human intrusions and disturbance

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

Natural system modifications

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

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Household sewage, urban waste water	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

Unknown

5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	SE0810491 Umeälvens delta	http://skyddadnatur.naturvardsverket.se/	whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
nature reserve	Umeälvens delta	http://www.lansstyrelsen.se/vast-erbotten/Sv/djur-och-natur/skyddad-natur/naturresevat/umea-kommun/umealvens-delta/Pages/default.aspx	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	River Umeälven Delta	http://datazone.birdlife.org/site/factsheet/river-umealven-delta-iba-sweden	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
Catchment management initiatives/controls	Partially implemented

Species

Measures	Status
Threatened/rare species management programmes	Partially implemented

Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented
Communication, education, and participation and awareness activities	Implemented
Research	Implemented
Regulation/management of wastes	Implemented
Livestock management/exclusion (excluding fisheries)	Implemented

Other:

Unknown

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:

No such facilities exist.

URL of site-related webpage (if relevant): <http://www.lansstyrelsen.se/vasterbotten/Sv/djur-och-natur/skyddad-natur/naturreservat/umea-kommun/umealvens-delta/Pages/default.aspx>

5.2.6 - Planning for restoration

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

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Proposed

A lot of censusing and bird data is collected concerning birdlife, although not within the frame of an official monitoring programme.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

- Anonymous. 1984. Naturgeografisk regionindelning av Norden. Nordiska Ministerrådet, Helsinki, Finland.
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- Gärdefors, U. (ed.) 2010. Rödlistade arter i Sverige 2010 - The 2010 Red List of Swedish Species. Artdatabanken, SLU, Uppsala.
- Hansson, P. 2004. Det fågelrika Umedeltat i ett 2000-årigt perspektiv – Betydelsen av strategiskt läge samt många och rika biotoper. Fåglar i Västerbotten 29: 89-101.
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- Hjelmqvist, S. 1953. The bedrock of Sweden excluding the Caledonian mountain range. Maps 7-8 in M. Lundqvist, editor. National Atlas of Sweden. Generalstabens Litografiska Anstalts Förlag, Stockholm, Sweden.
- Ivarsson, T. 1999. Insektsfaunan i Umeälvens delta, Umeå kommun, Miljökontorets rapportserie nr 1:1999, ISBN 91-973113-4-0.
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- Lindgren, J. & Nilsson, B. 2001. Utvecklingen av Umeälvens delta, examensarbete 20p, BMG/Naturgeografi, Umeå universitet, 2001.
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- Olsson, C. & Wiklund, J. 1999. Västerbottens Fåglar.
- Olsson, C. 2003. Umeälvens delta – inventering av häckande fågel. Umeå kommun.
- Raab, B. & Vedin, H. 1995. National Atlas of Sweden: Climate, Lakes and Rivers.
- Rudberg, S. 1970. Geomorphology. Maps 5-6 in M. Lundqvist, editor. National Atlas of Sweden. Generalstabens Litografiska Anstalts Förlag, Stockholm, Sweden.
- Stridh B., 2008. Åtgärdsprogram för ävjepilört, 2007–2011 (*Persicaria foliosa*). Naturvårdsverket rapport 5821.
- Skyllberg, U. & Hansson, P. 2004. Umedeltat en viktig rastplats för taigasädgåsen. Vår Fågelvärld 2/2004.
- Skyllberg, U., Bernhardtson, P., Naudot, E., Hansson, P. 2003. Taigasädgåsen (*Anser f. fabalis*) i Umedeltat och Norra norrlands kustland. Fåglar i Västerbotten 28: 54-64.

6.1.2 - Additional reports and documents

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

<1 file(s) uploaded>

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

<1 file(s) uploaded>

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

<1 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



View over Umeälvens delta
(Lars Lind, 2008-09-20)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1989-06-12