



Ramsar Information Sheet

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Sweden Tönnersjöheden-Årshultsmyn



Designation date	19 November 2001
Site number	1131
Coordinates	56°43'12"N 13°17'20"E
Area	12 388,00 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 situated on the slope and in the western part of the "South-Swedish Highland" (sydsvenska höglandet). This is one of the most humid parts of Sweden with a precipitation between 1200 and 1500 millimetres yearly. Because of this "humid" status the site contains a number of large mire complexes and displays a high diversity of wetland types. The wetlands display several different developmental stages, from fens to slightly raised bogs and large raised bogs of different types. The mire types are well-developed and contain a lot of features such as strings and hollow, soaks, tarns etc. A number of streams and lakes occur in the area. There are several ridges and eskers within the area, and also springs can be found. The site is of importance for flora and fauna and hosts both typical and rare species. There is also a number of red listed species depending on dry habitats in the area.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Viveka Strand (NFP Jenny Lonnstad)
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E-mail	halland@lansstyrelsen.se
Phone	+46102243000
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2.1.2 - Period of collection of data and information used to compile the RIS

From year	2013
To year	2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Tönnersjöheden-Årshultsmyren
Unofficial name (optional)	Tönnersjöheden-Årshultsmyren (peatland)

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 type="checkbox"/>
(Update) The boundary has been restricted	<input 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 type="checkbox"/>
(Update) The Site area has increased because of a boundary extension	<input 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 (actual)
(Update) Are the changes	Positive <input checked="" type="radio"/> Negative <input type="radio"/> Positive & Negative <input type="radio"/>
(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?	<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 checked="" type="checkbox"/>
(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?	<input checked="" 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.	

In the east, the site boundary has been slightly adjusted to fit the boundary of a nature reserve. This has resulted in smaller corrections including both extensions and reductions. In general this has resulted in that the site now include more forested peatlands, but there is also a small area of open peatland included. Non-wetland forest and arable land are the most common habitats for excluded areas.

(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 site is situated some 30 km east-north-east of the town of Halmstad, in the Counties of Halland and Kronoberg, south-western Sweden.

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	10. Boreonemoral
Bailey's Ecoregions	Marine 240
Other scheme (provide name below)	Sarmatic mixed forest PA0436
Other scheme (provide name below)	Sarmatic mixed forest
Freshwater Ecoregions of the World (FEOW)	406. Northern Baltic drainages
EU biogeographic regionalization	Boreal

Other biogeographic regionalisation scheme

TEOW: Sarmatic mixed forest PA0436
Digital Map of European Ecoregions (DMEER) EEA 2002: Sarmatic mixed forest

"Sydsvenska höglandets västdel" and "Södra Hallands kustland" (Nordiska ministerrådet 1984)

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

- Criterion 1 : Representative, rare or unique natural or near-natural wetland types

Other reasons

The site contains a number of representative examples of wetland types (for example lakes, rivers peatlands and shrub-dominated marshes) in the EU Boreal region.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

The site supports biological diversity that is characteristic of peatlands, wet heaths and limnic habitats in the EU Boreal region. There is also a number of red listed species depending on dry habitats in the area.

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

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>Carex pulicaris</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.
<i>Diphysastrum tristachyum</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.
<i>Diphysastrum zeilleri</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.
<i>Euphrasia micrantha</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.
<i>Gentiana pneumonanthe</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.
<i>Pulsatilla vernalis</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	Swedish Red List 2015 (EN).	See textbox below the table.
<i>Taraxacum duplidentifrons</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Swedish Red List 2015 (VJ).	See textbox below the table.

Criteria 3: The site supports a number of wetland species typical for these kinds of wetlands in the EU Boreal region. The site also supports a number of rare species in the boreal region living in dry habitats.

Criterion 2 and 3: For all species, the Swedish red-list status and general information for that classification etc can be found at <http://artfakta.artdatabanken.se/>. Observations can be found in www.artportalen.se.

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

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence ¹⁾	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
Birds																		

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>Anser anser</i> 	Greylag Goose	<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"/>		Important site staging and resting area. See textbox below the table.
CHORDATA/ AVES	<i>Dendrocopos minor</i> 	Lesser Spotted Woodpecker	<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).	Important site for foraging and probably reproduction. See textbox below the table.
CHORDATA/ AVES	<i>Grus grus</i> 	Common Crane	<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.	Important site for breeding and staging. See textbox below the table.
CHORDATA/ AVES	<i>Lyrurus tetrix tetrix</i> 	Black grouse	<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"/>	EC Birds Directive Annex I.	Important breeding area. Large numbers compared with the surroundings. See textbox below the table.
CHORDATA/ AVES	<i>Numenius arquata</i> 	Eurasian Curlew	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	See textbox below the table.
CHORDATA/ AVES	<i>Pluvialis apricaria</i> 	European Golden Plover; European Golden-Plover	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See textbox below the table.
CHORDATA/ AVES	<i>Tetrao urogallus</i> 	Western Capercaillie	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See textbox below the table.
CHORDATA/ AVES	<i>Tringa glareola</i> 	Wood Sandpiper	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	See textbox below the table.
Others																		
ARTHROPODA / INSECTA	<i>Agonopterix atomella</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 (EN).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Andrena similis</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 (EN).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Chesias rufata</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 (EN).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Coleophora genistae</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 (EN).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Mirificarma lentiginosella</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 (EN).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Nemophora cupriacella</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table.
ARTHROPODA / INSECTA	<i>Platytilla tesseraedactyla</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See textbox below the table.
ARTHROPODA / INSECTA	<i>Prolita solutella</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 (EN).	Important for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Pseudoterpna pruinata</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).	Important site for reproduction. See textbox below the table.
ARTHROPODA / INSECTA	<i>Scotopteryx mucronata</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 (EN).	Important site for reproduction See textbox below the table.
ARTHROPODA / INSECTA	<i>Stenoptilia pneumonanthes</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).	Important site for reproduction, the only known site in Sweden. See textbox below the table.

1) Percentage of the total biogeographic population at the site

Criterion 2: For all species, the Swedish red-list status and general information for that classification etc can be found at <http://artfakta.artdatabanken.se/>. Most criteria 2 insects living in dry habitats.

Criteria 2 and 3: Observations can be found in www.artportalen.se.

Criterion 3: The site is of importance for birds living in open and forested wetlands. For some species the site is of importance for resting and staging bird species. The site is also important for species living in dry sand and heath habitats.

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
4010. Wet heaths	<input checked="" type="checkbox"/>	Northern Atlantic wet heaths is spread over the area, and is habitat for the threatened plant <i>Gentiana pneumonanthe</i> .	The habitat is part of the EC Habitats Directive annex II. The habitat has an unfavourable conservation status in Sweden, (2013).

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

4.1 - Ecological character

The site is situated on the slope and in the western part of the "South-Swedish Highland" (sydsvenska höglandet). This is one of the most humid parts of Sweden with a precipitation between 1200 and 1500 millimetres yearly. Because of this "humid" status the site contains large unique mire complexes and displays a high diversity of wetland types. The wetlands display several different developmental stages, from fens to slightly raised bogs and large raised bogs of different types. A number of streams and lakes occur in the area. There are several ridges and eskers within the area, and also springs can be found.

4.2 - What wetland type(s) are in the site?

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		0		Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		3	400	Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		0		Representative
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		1	3700	Representative
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		0		Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		0		Representative
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		2	3000	Representative
Fresh water > Flowing water >> Y: Permanent Freshwater springs; oases		0		Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
coniferous forest (non-wetland)	2900
deciduous forest (non-wetland)	400
mixed forest (non-wetland)	300
arable land	400

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	<i>Caprimulgus europaeus</i>	European Nighthawk				EC Birds Directive Annex I.
CHORDATA/AVES	<i>Dryocopus martius</i>	Black Woodpecker				EC Birds Directive Annex I.
CHORDATA/AVES	<i>Lanius collurio</i>	Red-backed Shrike				EC Birds Directive Annex I.

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Cfb: Marine west coast (Mild with no dry season, warm summer)

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 is located in the catchment area of three rivers: Lagan (middle part of), Fylleån (Middle part of), Genevadsån (upper part of catchment area).

4.4.3 - Soil

Mineral

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

Organic

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

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes No

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	No change
Usually seasonal, ephemeral or intermittent water present	No change

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from groundwater	<input type="checkbox"/>	unknown
Water inputs from rainfall	<input checked="" type="checkbox"/>	unknown
Water inputs from surface water	<input type="checkbox"/>	unknown

Water destination

Presence?	Changes at RIS update
To downstream catchment	unknown
Feeds groundwater	unknown

Stability of water regime

Presence?	Changes at RIS update
Water levels largely stable	unknown

4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

There is not much erosion, transport and sedimentation of sediments at the site.

4.4.6 - Water pH

Acid (pH<5.5)

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

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

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

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Oligotrophic

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

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 proportion of protected areas are lower. West of the site there are beech forests as well.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

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

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Storage and delivery of water as part of water supply systems for agriculture and industry	Low
Maintenance of hydrological regimes	Groundwater recharge and discharge	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low

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

Within the site: 100

Outside the site: 1000

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

4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland

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

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

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

<no data available>

4.6 - Ecological processes

<no data available>

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

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Private ownership

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

5.1.2 - Management authority

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

Länsstyrelsen i Hallands län, 30186 Halmstad
halland@lansstyrelsen.se

Länsstyrelsen i Kronobergs län, 351 86 Växjö, Sweden
kronoberg@lansstyrelsen.se

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

Ansvarig för Ramsarområden (naturvård)

Postal address:

See textbox above

E-mail address:

halland@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		High impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified	Low impact	High impact	<input checked="" type="checkbox"/>	unknown	<input 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
Unspecified		Medium impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Logging and wood harvesting		High impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

Pollution

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

Please describe any other threats (optional):

Because the size of the site, exploitation pressure differs within the site, especially between protected and unprotected areas. Roads, ditches and forestry locally affect the eastern half of the site. In the western half of the site, there are ditches and spruce (*Picea abies*) plantations. A number of lakes in the site have been lowered. The western parts of the site include areas, which belong to the most exposed areas in the country in terms of airborne nitrogen and acidifying pollutants.

The threat energy production and mining refers to potential threats of windmills and peat mining. The threat is not severe, most likely there will not be any permit given for such activities at the site if wetland conservation values would be effected.

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	7 sites. See national legislation below until the data base allows more than one Natura site here.		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Natura 2000 SCI	Lidhultsåsen	NO URL	partly
Natura 2000 SCI/SPA (1)	Söderängarna	http://www.lansstyrelsen.se/halland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura-2000/Soderangarna.pdf	partly
Natura 2000 SCI/SPA (2)	Tönnersjöområdet och Mästocka skjutfält	http://www.lansstyrelsen.se/halland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura-2000/TonnersjomalochMastockaskjutfalt.pdf	partly
Natura 2000 SCI/SPA (3)	Långhultamyren	http://www.lansstyrelsen.se/halland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura-2000/Langhultamyren.pdf	partly
Natura 2000 SCI/SPA (4)	Porsbjär	http://www.lansstyrelsen.se/halland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura-2000/Porsbjar.pdf	partly
Natura 2000 SCI/SPA (5)	Lunnarna	NO URL	partly
Natura 2000 SCI/SPA (6)	Årshultsmyren	NO URL	partly
Nature reserve (1)	Gårdshult	http://www.lansstyrelsen.se/halland/Sv/djur-och-natur/skyddad-natur/naturreservat/halmstad/Pages/gardshult.aspx	partly
Nature reserve (2)	Långhultamyren	http://www.lansstyrelsen.se/halland/Sv/djur-och-natur/skyddad-natur/naturreservat/halmstad/Pages/langhultamyren.aspx	partly
Nature reserve (3)	Porsbjär	http://www.lansstyrelsen.se/halland/Sv/djur-och-natur/skyddad-natur/naturreservat/halmstad/Pages/porsbjar.aspx	partly
Nature reserve (4)	Årshultsmyren	http://www.lansstyrelsen.se/kronoberg/Sv/djur-och-natur/skyddad-natur/naturreservat/arshultsmyren/Pages/index.aspx	partly
Nature reserve (5)	Lidhultsåsen	http://www.lansstyrelsen.se/kronoberg/Sv/djur-och-natur/skyddad-natur/naturreservat/lidhultsasen/Pages/index.aspx	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	Partially implemented

Other:

Previously, fens and fen soaks were used for haymaking. This has long since been abandoned, and several of these areas are gradually becoming overgrown with pine (*Pinus sylvestris*). Military activities are to some extent performed in line with conservation interests and in some areas burning take place, which contributes to the rich flora and fauna. However, uncertainty prevails about the future of burning. Since parts of the site are drained through River Fylleån (another Ramsar site), any activities like pollutant discharges and physical disturbance should be avoided.

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes No

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

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, but restoration is needed

5.2.7 - Monitoring implemented or proposed

<no data available>

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

- Bengtsson, S. 1996: Naturvårdsprogram för Hallands län. Del 3 Halmstads kommun. Information från Länsstyrelsen i Hallands län. Remissutgåva.
- Erlandsson, J. 2001. Områden av riksintresse för naturvård i Hallands län. NN18 Simlångsdalen-Tönnersjöheden, s. 81-89. Länsstyrelsen Halland. Meddelande 2001: 20.
- Forslund, M. och Rundlöf, S. 1984: Våtmarker i Hallands län. Länsstyrelsens meddelande nr 1985: 1.
- Fritz, Ö. 1996: Inventering av skogliga nyckelbiotoper inom naturskyddade områden i Hallands län. Del 1. Södra länsdelen. Länsstyrelsens meddelande 1996: 10.
- Länsstyrelsen i Kronobergs län 1988: Kronobergs Natur, naturvårdsprogram för Kronobergs län.
- Länsstyrelsen i Kronobergs län 1987: Våtmarker i Kronobergs län.
- Malmberg, S. 1974: Myrarna vid Långhultbacken. Information från Länsstyrelsen i Hallands län.
- Naturvårdsverket 1994. Myrskyddsplan för Sverige.
- Naturvårdsverket 2007. Myrskyddsplan för Sverige – Huvudrapport över revideringen 2006. Rapport 5667.
- Naturvårdsverket 2007. Myrskyddsplan för Sverige – Delrapport – objekt i Götaland. Rapport 5670.
- Nordiska ministerrådet, 1984. Naturgeografisk regionindelning av Norden.
- Olausson, E. 1957: Das Moor Roshultsmyren. Lunds universitets årsskrift. N.F. Avd 2. Bd 53. Nr 12.

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

<1 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Asperamsmossen (Länsstyrelsen i Hallands län, 05-10-2014)



Asperamsmossen (Länsstyrelsen i Hallands län, 20-10-2014)



Kyrkebacken-Bonnabygget (Länsstyrelsen i Hallands län, 20-10-2014)



Bonnabygget (Länsstyrelsen i Hallands län, 20-10-2014)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2001-11-19