

Ramsar Information Sheet

Published on 27 April 2023 Update version, previously published on : 1 January 2005

Finland Lätäseno-Hietajoki Mires



Designation date 2 February 2004
Site number 1520
Coordinates 68°39'35"N 22°19'34"E
Area 43 367,00 ha

https://rsis.ramsar.org/ris/1520 Created by RSIS V.1.6 on - 27 April 2023

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 Lätäseno-Hietajoki Mire Protection Area is Finland's third largest mire protection area. Together with surrounding area it forms a vast wilderness, peripheral and relatively natural regional entity. Lätäseno—Hietajoki area is an important conservation area of palsa mires, and pristine rivers Lätäseno and Hietajoki at the upper catchment of the Tornionjoki River Basin, which is shared between Finland and Sweden. The site is the northernmost place for occurrence of several mire and aquatic plants and it provides a very valuable spawning and juvenile habitat for a number of migratory fish species, some of which provide to the fishing stocks of the Baltic Sea. For its flora and bird fauna the area is a valuable part of an important chain of riverbank mires. The breeding waterfowl and waders are the most abundant and diverse in the whole Enontekiö biological province.

In the southern part of thus Ramsar site there is the historical market place of Markkina, that was the ecclesiastical and administrative center of the rather sparsely populated western part of Lapland from the beginning of the 17th century to the year 1826. At the site of the market place, there are the remains of a church, a cemetery, and a sacrificial site. In addition, archaeological finds have been made that indicate the importance of Markkina during the prehistorical period. These include prehistorical artifacts, pitfall traps, and structures that point to the so-called Sami Iron Age, such as remains of huts, cottages, dwelling sites, and Sami sacred places. A German fortress called Sturmbock from the World War II is preserved and partly reconstructed. Markkina is classified as one of the most valuable archaeological sites in Finland.

2 - Data & location

2.1 - Formal data

2.1	.1	-	Name	and	address	of the	compiler	of	this	RIS
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Respo		

Institution/agency Finnish Environment Institute (SYKE), Natural Environment Centre

PO Box 140
FI-00251
Finland

National Ramsar Administrative Authority

Institution/agency

Metsähallitus, Parks and Wildlife Finland

PO Box 94
FI-01301 Vantaa
Finland

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

From year 1996

To year 2017

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Lätäseno-Hietajoki Mires

Unofficial name (optional)

Lätäseno-Hietajoen suot

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

(Update) For secretariat only. This update is an extension □

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?

 $\ensuremath{^{\text{(Update)}}}$ Optional text box to provide further information

Wetland types and species, and ecosystem services have been reassessed according to current knowledge, but there are no changes to the ecological character.

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<2 file(s) uploaded>

Former maps 0

Boundaries description

The site overlaps with the southern part of the larger Natura 2000 site FI1300105 Käsivarren erämaa SAC/SPA and with FI1301912 Tornionjoen ja Muonionjoen vesistö SAC.

2.2.2 - General location

a) In which large administrative region does the site lie?	Lapland
b) What is the nearest town or population	Enontekiö

2.2.3 - For wetlands on national boundaries only

- a) Does the wetland extend onto the territory of one or more other countries? Yes \odot No \circ
- 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): 43367

Area, in hectares (ha) as calculated from

GIS boundaries 43515.652

2.2.5 - Biogeography

Biogeographic regions

2 io goog i aprilio i ogiono							
Regionalisation scheme(s)	Biogeographic region						
Other scheme (provide name below)	Fjeld Lapland birch forest vegetation zone						
EU biogeographic regionalization	Alpine region						

Other biogeographic regionalisation scheme

Vegetation zones of Finland according to Ruuhijärvi et al. 2000.

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	Virgin aapa mires play an important role in the maintenance of water quality and in flood control.
	Comprising active and pristine peat bogs and mires, the site is very valuable for carbon storage and flood control. The site also harbours biodiversity and serves as a source of inspiration and recreation.
	A representative example of 7 natural wetland types included in Annex I of the EU Habitats Directive (dominated by peatlands and rivers) in the EU Alpine region, including at least 2 priority natural wetland habitat types included in Annex I of the EU Habitats Directive (palsa mires, aapa mires).

- ☑ Criterion 2 : Rare species and threatened ecological communities
- Criterion 4 : Support during critical life cycle stage or in adverse conditions

information province.

Optional text box to provide further The breeding waterfowl and waders are the most abundant and diverse in the whole Enontekiö biological

Criterion 8 : Fish spawning grounds, etc.

Tornionjoki River is the largest River in the Baltic Sea Basin that hosts natural migratory salmon and trout stocks. The migratory salmon ascends all the way to upper sections of the river to spawn, including the Lätäseno section of the river. The Tornionjoki River provides approximately a third of all wild salmon juveniles in the Baltic Sea, thus being internationally significant for the survival and fishing of the Baltic Sea salmon stock. In addition, being a large free flowing river the Tornionjoki with its' tributaries is a very valuable example of a natural river system in the Baltic Sea Basin.

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

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Plantae								
BRYOPHYTA/ BRYOPSIDA	Hamatocaulis vernicosus	/					National Red List - VU	
BRYOPHYTA/ BRYOPSIDA	Meesia longiseta	~					National Red List - EN	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Ranunculus Iapponicus	V					EU Habitats Directive - Annexes II, IV	
TRACHEOPHYTA/ MAGNOLIOPSIDA	Saxifraga hirculus	/			LC		National Red List - VU	

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

Phylum	Scientific name	Species qualifies under criterion	Species contributes under criterion 3 5 7 8	Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Others											
CHORDATA/ MAMMALIA	Gulo gulo]			LC			National Red List - EN; EU Habitats Directive - Annex II	
CHORDATA/ MAMMALIA	Lutra lutra]			NT	V		EU Habitats Directive - Annexes II, IV	
CHORDATA/ MAMMALIA	Vulpes lagopus		0000)			LC			National Red List - CR; EU Habitats Directive - Annexes II, IV	
Fish, Mollusc a	and Crustacea										
CHORDATA/ ACTINOPTERYGI	Coregonus I lavaretus			1			VU			VU in the IUCN red list	spawning
CHORDATA/ ACTINOPTERYGI	Salmo salar			9						National Red List - VU	spawning
CHORDATA/ ACTINOPTERYGI	Salmo trutta			9			LC			Annex III of the Bern Convention	spawning
CHORDATA/ ACTINOPTERYGI	Thymallus I thymallus			1			LC			Annex III of the Bern Convention	spawning
Birds											
CHORDATA/ AVES	Asio flammeus		0000]			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Buteo lagopus		0000]			LC			National Red List - EN	The Site supports this species during breeding period.
CHORDATA/ AVES	Circus cyaneus		0000]			LC			National Red List - VU; EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Emberiza schoeniclus		0000]			LC			National Red List - VU	The Site supports this species during breeding period.
CHORDATA/ AVES	Gallinago gallinago		0000]			LC			National Red List - VU	The Site supports this species during breeding period.
CHORDATA/ AVES	Grus grus		0000]			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Lagopus lagopus]			LC			National Red List - VU	The Site supports this species during breeding period.
CHORDATA/ AVES	Phalaropus Iobatus]			LC			National Red List - VU; EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Philomachus pugnax)						National Red List - CR; EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Pluvialis apricaria)			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Surnia ulula)			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Tetrao urogallus]			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.
CHORDATA/ AVES	Tringa glareola]			LC			EU Birds Directive - Annex I	The Site supports this species during breeding period.

¹⁾ Percentage of the total biogeographic population at the site

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

RIS for Site no. 1520, Lätäseno-Hietajoki Mires, Finland

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Fennoscandian natural rivers	2		Habitats Directive - Annex I
Alpine rivers and the herbaceous vegetation along their banks	2		Habitats Directive - Annex I
Natural dystrophic lakes and ponds	2		Habitats Directive - Annex I
Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Ø		Habitats Directive - Annex I
Aapa mires	2		Habitats Directive - Annex I
Palsa mires	2		Habitats Directive - Annex I
Transition mires and quaking bogs	2		Habitats Directive - Annex I

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

4.1 - Ecological character

The site represents the Mire vegetation regions of Palsa mires in Fjeld Lapland and of Northern aapa mires. The area includes ca. 26 000 ha of mires and ca. 2 200 ha of water. The area is traversed by the rivers Lätäseno and Hietajoki. Extensive riverbank mires are typical of the area. Largest lakes cover 50–100 ha. Ponds and pools are common. The morphology of Kivikkovuoma palsa mires is exceptionally well developed. A fine palsa mire complex is situated north of the hills Markkavaara and Kuonnavaara, where wet flark and sedge (Carex spp.) fens occur. Rich fens are found also at Lake Vakkovallanjärvi. The northern limit of Pine (Pinus sylvestris) crosses the area and Mountain Birch (Betula pubescens ssp. czerepanovii) is the only common tree species. The site is also essential for many migratory and river-spawning salmonid fish species. Tornionjoki River is the largest River in the Baltic Sea Basin that hosts natural migratory salmon and trout stocks. The migratory salmon ascends all the way to upper sections of the river to spawn, including the Lätäseno section of the river. The Tornionjoki River provides approximately a third of all wild salmon juveniles in the Baltic Sea, thus being internationally significant for the survival and fishing of the Baltic Sea salmon stock. In addition, being a large free flowing river the Tornionjoki with its' tributaries is a very valuable example of a natural river system in the Baltic Sea Basin.

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		3	521	Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		2	1664	Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		4	10	Representative
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		1	17271	Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Boreal heaths	3479
Nordic subalpine forests with Betula pubescens ssp. czerepanovii	18679

4.3 - Biological components

4.3.1 - Plant species

<no data available>

4.3.2 - Animal species

<no data available>

4.4 - Physical components

4.4.1 - Climate

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

4.4.2 - Geomorphic setting

A N R 2	
a) Minimum elevation above sea level (in	000
a) Minimum elevation above sea level (in metres)	330
metres)	

A R R C C	100	1		1.7	
a) Maximum	elevation	above	sea	ievei (in	E20
				tu \	530
				metres)	

Entire river basin

Upper part of river basin

	Middle par	rt of river basin \square	
	Lower par	rt of river basin \square	
	More than	one river basin	
		_	
	No	t in river basin	
		Coastal	
Please name the river basin	n 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 t	the upper part of the Tor	nionjoki River Basin, dr	aining into the Baltic Sea.
4.4.3 - Soil			
		Mineral 🗹	
	(Undate) a.		0- 0 0
	(opunio) Changes		Increase O Decrease O Unknown O
		Organic 🗹	
	(Update) Changes	at RIS update No change	Increase O Decrease O Unknown O
	No availab	ole information	
Are eail to see authingt to			
condition	change as a result of changin ons (e.g., increased salinity or	acidification)?	
	mation on the soil (optional)	ith small areas of human	nocky maraina and glacifluvial group and sand
iviainly peat and glaci	genic ground moraine w	ıın smaii areas oi numn	nocky moraine and glacifluvial gravel and sand.
4.4.4 - Water regime			
Water permanence	Observes at DIO and date		
Presence? Usually permanent water	Changes at RIS update		
present			
Usually seasonal, ephemeral or intermittent			
water present			
Source of water that maintain Presence?	Predominant water source	Changes at RIS update	
Water inputs from surface	2	No change	
Water inputs from			
Water inputs from groundwater		No change	
Water inputs from precipitation		No change	
ргеограцион			
Water destination			
Presence?	Changes at RIS update		
To downstream catchment	No change		
Stability of water regime			
Presence?	Changes at RIS update		
Water levels fluctuating (including tidal)	No change		
(morading tidal)			
Please add any comments	on the water regime and its de	eterminants (if relevant). Use	his box to explain sites with complex hydrology.
-			because of melting snow.
'	•	0 1 0	· ·
4.4.5 - Sediment regim	ie		
	Sealment reg	gime unknown 🗹	
4.4.0 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
4.4.6 - Water pH			
		Acid (pH<5.5) ☑	
	(Update) Changes	at RIS update No change	Increase O Decrease O Unknown O
		ıl (pH: 5.5-7.4) ☑	
	(Update) Changes	at RIS update No change	Increase O Decrease O Unknown O
		Unknown	
4.4.7 - Water salinity			
ator Juninty			

Fresh (<0.5 g/l)

^(Update) Changes at RIS update No change ⑨ Increase ○ Decrease ○ Unknown ○	
Unknown □	

Please provide further information on salinity (optional):

General water quality excellent in River Lätäseno and good in River Hietajoki. Oligotrophic–mesotrophic. Flood in late spring adds contents of sediment and humus together with iron and nutrients and acidity increases because of acid compounds of melting snow, thus weakening buffering capacity of lakes and ponds.

4.4.8 - Dissolved or suspended nutrients in water

Mesotrophic ☑	
(Update) Changes at RIS update No change ● Increase O Decrease O Ur	nknown O
Oligotrophic ☑	
^(Update) Changes at RIS update No change ② Increase ○ Decrease ○ Ur	nknown O
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 Θ ii) significantly different O

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Low
Wetland non-food products	Livestock fodder	Medium

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
Climate regulation	Regulation of greenhouse gases, temperature, precipitation and other climactic processes	Medium
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Picnics, outings, touring	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low
Spiritual and inspirational	Aesthetic and sense of place values	Low
Scientific and educational	Educational activities and opportunities	Low
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Low
Scientific and educational	Major scientific study site	Low

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High
Soil formation	Accumulation of organic matter	Low
Nutrient cycling	Carbon storage/sequestration	High

Other ecosystem service(s) not included above:

Significant values include scientific research, reindeer husbandry, outdoor recreation and recreation fishing. The site includes two locally important traditional rural biotopes (4 ha).

"Traditional rural biotope" is a synonym for a group of biotopes as semi-natural grassland, wooded pastures and grazed forests. (They are the most important areas for biodiversity in the agricultural landscape and also unreplaceable for the cultural heritage. They are classified as nationally, provincially or locally valuable. Most of these areas are very small. Most valuable areas are threatened because of e.g. overgrowing and enrichment caused by fertilization.)

Within the site:	100s
Outside the site:	100s
Have studies or assessments been made of ecosystem services provi	the economic valuation of Yes O No O Unknown ® ded by this Ramsar Site?
4.5.2 - Social and cultural values	
i) the site provides a model of wetland wis application of traditional knowledge and meth use that maintain the ecologica	nods of management and
ii) the site has exceptional cultural tradicivilizations that have influenced the ecological	
iii) the ecological character of the wetland of with local communities	depends on its interaction es or indigenous peoples
iv) relevant non-material values such as sactheir existence is strongly linked with the main	

4.6 - Ecological processes

<no data available>

<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

		owners	
I UD	ш	OWITEIS	uip

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	 ✓	✓

Private ownership

Category	Within the Ramsar Site	In the surrounding area	
Other types of private/individual owner(s)		2	

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

The site is on	public, s	state-owned	land ((100%)	١.

5.1.2 - Management authority

agency or organization responsible for managing the site:

Please list the local office / offices of any Metsähallitus Parks and Wildlife Finland

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

Ms. Elisa Pääkkö, Specialist

Jäämerentie 6 Postal address: 99600 Sodankylä Finland

E-mail address: elisa.paakko@metsa.fi

5.2 - Ecological character threats and responses (Management)

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

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			✓			

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Air-borne pollutants			✓			

Please describe any other threats (optional):

The acid deposition may weaken the buffering capacity of some lakes and ponds, although the fallout of sulphur is quite low in western Lapland and the acidification has diminished in general since the 1980s. Acid depositions are caused by a long -distance fallout mainly from the Kola Peninsula (Russia) industrials.

Hunting may have negative effects on the site.

5.2.2 - Legal conservation status

Regional (international) legal designations

regional (international) regai accignatione			
Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Käsivarren erämaa SAC/SPA	http://natura2000.eea.europa.eu/ Natura2000/SDF.aspx?site=FI13001 05	whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Mire Protection Area	Lätäsenon-Hietajoen mire protection area		whole
Wilderness Area			whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Lätäseno and Jietajoki mires	http://datazone.birdlife.org/sit e/factsheet/l%C3%A4t%C3%A4seno-a nd-jietajoki-mires-iba-finland	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
	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
J	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
ſ	Legal protection	Implemented

Other

The site is included in the Natura 2000 Network as a part of Käsivarsi Wilderness Area (altogether 264 892 ha), designated both as SPA and SCI. It is Finland's second largest Wilderness Area. The Mire Protection Area is contacted with the Wilderness Area on its northwestern edge. Lätäseno—Hietajoki Mire Protection Area was established in 1988 and Käsivarsi Wilderness Area in 1991. Forestry, ditching, extraction of earth material and damaging of soil or bedrock are prohibited in the Mire Protection Area. Also construction of new buildings and roads is prohibited in general.

The mire protection areas are not necessarily included in mire conservation programme if the areas have been decided to be protected with earlier decisions, before the programme has been established.

A management and land use plan has been established in 2008 for the Mire Protection Area, and updated to include the whole Wilderness Area in 2020.

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

No

O

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.

The area is an important education site for the Kilpisjärvi Biological Station of Helsinki University.

Three wilderness huts have been constructed in the Mire Protection Area. There is also a snowmobile trail of Hetta–Kilpisjärvi and a cross-country track crossing the area and a canoe route at River Lätäseno. Käsivarsi Wilderness Area has nearly 6 000 visitors per year. Licensed recreation fishing takes place in summer particularly at River Lätäseno, where the populations of Salmon has recovered.

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	Implemented

Lätäseno is a study site of Kilpisjärvi Biological Station of Helsinki University and an important research site of northern mire ecosystems in general. The breeding bird fauna was studied in the 1970s and the volume of bird populations was estimated in 1997–98 by using line transect censuses. Studies on geology, archeology and mammals were carried out in the 1990s.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Hyvärinen, E., Juslén, A., Kemppainen, E., Uddström, A. & Liukko, U.-M. (eds.) 2019. The 2019 Red List of Finnish Species. Ympäristöministeriö & Suomen ympäristökeskus. Helsinki. 704 p.

Kajala, L. & Loikkanen, T. (toim.) 2000. Käsivarren erämaa-alueen luonto ja käyttö. Metsähallituksen luonnonsuojelujulkaisuja A 123.

Leivo, M. 2000. Suomen kansainvälisesti tärkeät lintualueet. Linnut-vuosikirja 1999. (English summary: Important Bird Areas in Finland).

Leivo, M., Asanti, T., Koskimies, P., Lammi, E., Lampolahti, J., Mikkola-Roos, M.& Virolainen, E. 2002. Suomen tärkeät lintualueet FINIBA. BirdLife Suomen julkaisuja 4, Suomen graafiset palvelut, Kuopio.

Tiainen, J., Mikkola-Roos, M., Below, A., Jukarainen, A., Lehikoinen, A., Lehtiniemi, T., Pessa, J., Rajasärkkä, A., Rintala, J., Sirkiä, P. & Valkama, J. 2016. The 2015 Red List of Finnish Bird Species. Ministry of Environment & Finnish Environment Institute, Helsinki.

Working group on the need for forest protection in southern Finland and Ostrobothnia. Chairman Ruuhijärvi, R., Secretaries Kuusinen, M., Raunio, A. and Eisto, K. 2000. Forest protection in southern Finland and Ostrobothnia. The Finnish Environment 437. Ministry of the Environment.

Sihvo, J. 2002. Ylä-Lapin luonnonhoitoalueen ja Urho Kekkosen kansallispuiston luontokartoitus; Loppuraportti osa 2: Ylä-Lapin luontotyypit. Metsähallituksen luonnonsuojelujulkaisuja A 137.

6.1.2 - Additional reports and documents

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

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

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

iv. relevant Article 3.2 reports

v. site management plan

vi. other published literature

<no data available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



A palsa mound in the Lätäseno wetlands. (Arto Saikkonen, 28-07-2009

6.1.4 - Designation letter and related data

Designation letter

Date of Designation 2004-02-02