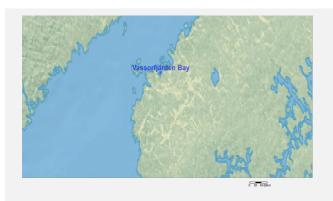


Ramsar Information Sheet

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

FinlandVassorfjärden Bay



Designation date 2 February 2004 Site number 1538

Coordinates 63°11'35"N 21°59'11"E

Area 1 537,00 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 estuary is one of the largest in Finland with a diverse and representative wetland bird fauna both in breeding and migration periods. The reed zone is exceptionally wide and water depth is low in the whole wetland. The wetland is for the most part surrounded by forests and on the northwestern and southern side by agricultural land. It is an important breeding and staging area for waterfowl and waders during migration and molting periods and provides habitat for the threatened Russian Flying Squirrel. The estuary is an important fish spawning area, but sediments, nutrients and occasional acid waters from the river Kyrönjoki weaken its significance for fish reproduction. The eastern shores are densely built and a main road crosses the southern edge of the bay. Nonetheless, birdwatching remains a significant activity.

Vassorfjärden is an ancient bay, that has turned to shallow water due to the glacio-isostatic rebound. The bay has provided landing sites for the surrounding hamlets. The probability of archaeological underwater remains is high.

2 - Data & location

2.1 - Formal data

2.1 - 1 Offilai data	
2.1.1 - Name and address of the com	piler of this RIS
Responsible compiler	
Institution/agency	Finnish Environment Institute (SYKE), Natural Environment Centre
Postal address	PO Box 140 FL00251 Finland
National Ramsar Administrati	ive Authority
Institution/agency	Metsähallitus, Parks and Wildlife Finland
Postal address	PO Box 94 FI-01301 Vantaa Finland
2.1.2 - Period of collection of data and	d information used to compile the RIS
From year	2010
To year	2017
2.1.3 - Name of the Ramsar Site	
Official name (in English, French or Spanish)	Vassorfjärden Bay
Unofficial name (optional)	Vassofjärden
	nd area of the Site since its designation or earlier update
	Changes to Site boundary Yes ○ No No above to see
	te) B. Changes to Site area No change to area his update is an extension
To Secretariationly. I	ins update is an extension.
2.1.5 - Changes to the ecological cha	racter of the Site
(Update) 6b i. Has the ecological character of tapplicable Criteria) change	INO
(Update) Optional text box to provide further info	
Wetland types and species, and eccecological character.	osystem services have been reassessed according to current knowledge, but there are no changes to the
2.2 - Site location	
2.2.1 - Defining the Site boundaries	
b) Digital map/image <2 file(s) uploaded>	
Former maps	0
Boundaries description	
	e Natura 2000 site Fl0800056 Vassorfjärden SAC/SPA.
2.2.2. Conoral location	
2.2.2 - General location	
a) In which large administrative region does the site lie?	Ostrobothnia

b) What is the nearest town or population centre? Vöyri / Mustasaari

2.2.3 - For wetlands on national boundaries only

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

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

2.2.4 - Area of the Site

Official area, in hectares (ha): 1537

Area, in hectares (ha) as calculated from 1534.466 GIS boundaries

2.2.5 - Biogeography

Biogeographic regions

Biogoogiapino rogiono	
Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Boreal region
Other scheme (provide name below)	Southern boreal forest vegetation zone

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

Other reason

A representative example of a near-natural wetland type (estuarine waters) in the EU Boreal region, including 1 priority natural wetland habitat type of the EU Habitat Directive, the Fennoscandian deciduous swamp woods. The most common types of the EU Habitat Directive are habitats of codes 1130*, 7140 and 9030*. Marginal ones are 1630*, 9050, 9080*, 91D0*, 1150* and 9070.

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ 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

<no data available>

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

3.3 - AII	3 - Animal species whose presence relates to the international importance of the site																
Phylum	Scientific name	quali cı	pecies fies un riterior 4 6	nder n	coi unde		utes iterion	Pop.	Po	eriod of pop. Es	t. occurr		CN ed st A	CITES ppendix I	CMS Appendix I	Other Status	Justification
Others																	
CHORDATA MAMMALIA	Pteromys volans	2]				L	С			EU Habitats Directive - Annexes II, IV	
CHORDATA AMPHIBIA	Rana arvalis	2]				L	С			EU Habitats Directive - Annex II	
Birds																	
CHORDATA AVES	Anas acuta	✓ (2 🗆]				L	С			National Red List - EN	migration
CHORDATA AVES	Anser erythropus	✓ (2 🗆]				V	U		\checkmark	National Red List - CR; EU Birds Directive - Annex I	migration
CHORDATA AVES	Anser fabalis	✓ (2 🗆]				L	С			National Red List - VU	migration
CHORDATA AVES	Arenaria interpres	✓ (2 🗆]				L	С			National Red List - EN	migration
CHORDATA AVES	Aythya ferina	☑ [2 🗆]				V	U			National Red List - EN	migration
CHORDATA AVES	Aythya fuligula	✓ (2 🗆]				L	С			National Red List - EN	migration
	Calidris alba		20]				L	С				migration
CHORDATA AVES	Calidris ferruginea		2 0)				N	Т				migration
CHORDATA AVES	temminckii	V.	2 0]				L	С			National Red List - EN	migration
CHORDATA AVES	Chlidonias niger	V	2 🗆]				L	С			National Red List - CR; EU Birds Directive - Annex I	migration

Phylum	Scientific name	quali cı	pecies fies ur riterior 4 6	nder 1	unc	der c	ibute rite	es rion	Pop. Size	Period of pop.	Est.	% occurrenc 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA /	Chroicocephalus ridibundus		7 🗆													National Red List - VU	migration
CHORDATA /	aeruginosus	Ø.	20										LC			EU Birds Directive - Annex I	migration
CHORDATA /	Cygnus cygnus	V.	20										LC			EU Birds Directive - Annex I	migration
CHORDATA /	Grus grus	V.	2 0										LC			EU Birds Directive - Annex I	migration
CHORDATA /	l Haliaeetus albicilla	V.	20										LC	V	V	National Red List - VU; EU Birds Directive - Annex I	migration
CHORDATA /	l Hydroprogne caspia	V (20										LC			EU Birds Directive - Annex I	migration
CHORDATA /	Larus fuscus	V.	2 0										LC			National Red List - EN	migration
CHORDATA /	Larus minutus	V.	20													EU Birds Directive - Annex I	migration
	falcinellus		20														migration
CHORDATA /	Limosa Iapponica	V.	2 0													EU Birds Directive - Annex I	migration
CHORDATA /	Mergellus albellus	V.	20										LC			EU Birds Directive - Annex I	migration
CHORDATA /	l Philomachus pugnax	V (20													National Red List - CR	migration
CHORDATA /	Pluvialis apricaria	V.	2 0										LC			EU Birds Directive - Annex I	migration
CHORDATA /	l Pluvialis squatarola		20										LC				migration
	Podiceps auritus	2														National Red List - EN; EU Birds Directive - Annex I	
	Sterna hirundo	V.	2 0										LC			EU Birds Directive - Annex I	migration
CHORDATA /	Sterna paradisaea	V.	2 🗆										LC			EU Birds Directive - Annex I	migration
	Sternula albifrons	V.	2 🗆										LC			National Red List - EN; EU Birds Directive - Annex I	migration
CHORDATA /	Tringa erythropus		Z 🗆										LC				migration
CHORDATA /	Tringa glareola	V	Z 🗆										LC			EU Birds Directive - Annex I	migration
CHORDATA/ AVES	Tringa totanus	V.	7 🗆										LC			National Red List - VU	migration

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. 1538, Vassorfjärden Bay, Finland

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
Boreal Baltic coastal meadows	2		EU Habitats Directive - Annex I
Transition mires and quaking bogs	2		EU Habitats Directive - Annex I
Estuaries	2		EU Habitats Directive - Annex I
Natural forests of primary succession stages of landupheaval coast	Ø		EU Habitats Directive - Annex I
Fennoscandian decidious swamp woods	2		EU Habitats Directive - Annex I
Bog woodland	2		EU Habitats Directive - Annex I

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

4.1 - Ecological character

Vassorfjärden is a long and winding sea bay, formed by River Kyrönjoki estuary. The northern part is composed of bays Österfjärden and Söderfjärden. The area includes ca. 1 200 ha of water. The waters are shallow because of silt brought by the river. The reed zone is very extensive, formed by Common Reed (Phragmites australis) in the north and Common Club-rush (Schoenoplectus lacustris) in the south. Shores are diverse with silt-rocky and turf shores and extensive sedge (Carex spp.) meadows. Because of sedimentation and landupheaval the vegetation is in a continuous process of change. The wetland is for the major part surrounded by forests and on the north-western side also by agricultural land.

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

Marine or coastal wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
A: Permanent shallow marine waters		1		
F: Estuarine waters		1	1329	Representative
J: Coastal brackish / saline lagoons		4	2	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 > Marshes on inorganic soils >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		2	237	
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	17	

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type
9: Canals and drainage channels or ditches		4	

Other non-wetland habitat

Other non-wedand habitat	
Other non-wetland habitats within the site	Area (ha) if known
Primary forests	122
Herb-rich forests	36
wooded pastures	1

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

Phylum	Scientific name	Impacts	Changes at RIS update
TRACHEOPHYTA/MAGNOLIOPSIE	A Impatiens glandulifera	Potential	unknown

4.3.2 - Animal species

Invasive alien animal species

invasive allen animal species	•		
Phylum	Scientific name	Impacts	Changes at RIS update
CHORDATA/MAMMALIA	Neovison vison	Actual (minor impacts)	unknown
CHORDATA/MAMMALIA	Nyctereutes procyonoides	Actual (minor impacts)	unknown

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)

Storms and high wate	er level in summertime d	ue to climatic change h	ave sometimes destroyed birds' nests.
4.4.2 - Geomorphic set	tting		
	_		
a) Minimum elevation al	bove sea level (in metres)		
- NA - donner of our floor	,		
a) Maximum elevation al	metres)		
	, Fr	itire river basin	
		rt of river basin	
		rt of river basin	
		rt of river basin 🗆	
	More than	one river basin 🛘	
	No	ot in river basin \square	
		Coastal 🗹	
Please name the river basin	n or basins. If the site lies in a	sub-basin, please also nam	the larger river basin. For a coastal/marine site, please name the sea or ocean.
Gulf of Bothnia/ Bothn	ian Bay		
4.4.3 - Soil			
		Mineral 🗹	
	(Update) Changes	at RIS update No change	Increase O Decrease O Unknown O
		Organic 🗹	
	(Update) Changes	at RIS update No change	Increase O Decrease O Unknown O
		ole information \square	
Are eail tonge authioat to			
	change as a result of changir ons (e.g., increased salinity or		
	mation on the soil (optional)		
	nd glacigenic ground mo	raine	
inaning one area oray are	ia giaoigoino gioana ino		
4.4.4 - Water regime			
Water permanence			
Presence?	Changes at RIS update		
Usually permanent water present			
0			
Source of water that maintain Presence?	Predominant water source	Changes at RIS update	
Water inputs from surface		No change	
water Marine water	✓	No change	
		<u> </u>	
Water destination	Observed at DIO wests to	l	
Presence? Marine	Changes at RIS update No change		
Stability of water regime Presence?	Changes at RIS update		
Water levels fluctuating	No change		
(including tidal)	140 Glange		
Please add any comments	on the water regime and its de	eterminants (if relevant) Use	this box to explain sites with complex hydrology:
			ause of melting snow. Abrupt changes in water level may occur in spring
due to breaking up of			,,
4.4.5 - Sediment regim	ne		
,		gime unknown 🗹	
	Coamontro	g = 0	
4.4.6 - Water pH			
•		Unknown 🗹	
		OTHER DAY I	

4.4.7 - Water salinity

Fresh (<0.5 g/l) ₩
^(Update) Changes at RIS update No change ② Increase ○ Decrease ○ Unknown ○
Mixohaline (brackish)/Mixosaline (0.5-30 g/l) ☑
^(Update) Changes at RIS update No change ⊙ Increase ○ Decrease ○ Unknown ○
Unknown
4.4.8 - Dissolved or suspended nutrients in water
Dystrophic ☑
(Update) Changes at RIS update No change ● Increase O Decrease O Unknown O
Unknown □
Please provide further information on dissolved or suspended nutrients (optional):

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

General water quality passable. River Kyrönjoki dystrophic.

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 O ii) significantly different site itself:

Surrounding area has greater urbanisation or development $\ensuremath{\checkmark}$

Surrounding area has higher human population density $\overline{\mathbb{Z}}$

Surrounding area has more intensive agricultural use $\ensuremath{\overline{\mathbb{Z}}}$

Surrounding area has significantly different land cover or habitat types

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)	High
Wetland non-food products	Livestock fodder	Low

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Picnics, outings, touring	Low
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)	High
Scientific and educational	Major scientific study site	Medium

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	Sediment retention	High

Other ecosystem service(s) not included above:

Significant values include birdwatching.				
Within the site:	10s			
Outside the site:	100s			

s or assessments been made of the economic valuation of Yes O No O	Hnknown	(6)
ecosystem services provided by this Ramsar Site?	OTIKITOWIT	Ĭ

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

.1.1 - Land tenure/ov						
ublic ownership Category	Within the Ramsar	Site In the surrounding	ı area			
National/Federal	2		, 4.1-04			
government						
rivate ownership						
Category	Within the Ramsar		g area			
Other types of private/individual owner(s	2	✓				
Provide further information (a) within the Ramsa Private-owned (1 %	ar site:	nership regime (optional):				
(b) in the surrounding Private-owned.	,					
.1.2 - Management a				<u> </u>		
Please list the local or agency or organizati		utn Ostrabothnia Centr	e tor Economic Dev	eiopment, i ranspo	ort and the Environment	
Provide the name and/o or people with responsib	· IMS	. Johanna Kullas, seni	or inspector			
). box 262 101 Vaasa				
		land				
i.2 - Ecological c	E-mail address: joh	land anna.kullas@ely-keski				
	E-mail address: joh character threat I or likely) adversely gricultural)	land lanna.kullas@ely-keski s and responses affecting the Site's ec	(Management) ological character	Changes		Changes
.2.1 - Factors (actua uman settlements (non a Factors adversely affecting site	E-mail address: joh character thread I or likely) adversely	land lanna.kullas@ely-keski s and responses	(Management)	Changes	In the surrounding area	Changes
2.1 - Factors (actua	E-mail address: joh character threat I or likely) adversely gricultural)	land lanna.kullas@ely-keski s and responses affecting the Site's ec	(Management) ological character	Changes No change	In the surrounding area	Changes No change
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1

Low impact

No change

No change

 \mathcal{J}

No change

No change

Invasive and other problematic species and genes

Medium impact

Dams and water

management/use
Vegetation clearance/
land conversion

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	Medium impact		✓	No change		No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	High impact	High impact		No change	/	No change

Please describe any other threats (optional):

Dredging of boating channels, embankment creation and acid waters leaking from embankments have destroyed vegetation in many places, and wetland area has diminished by hundreds of hectares. The former significance as an important spawning area has weakened as fish and bottom fauna have disappeared in certain areas. The estuary is affected by actions (like agriculture and forestry) taking place in the whole Kyrönjoki catchment area. Eastern shores are densely built and a main road crosses southern edge of the bay. American Mink (Mustela vison) and Raccoon Dog (Nyctereutes procyonoides) may cause damage to the breeding of birds.

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	Vassorfjärden SAC/SPA	http://natura2000.eea.europa.eu/ Natura2000/SDF.aspx?site=Fl08000 56	whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Waterfowl Habitat Conservation Programme			whole

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve
lb Wilderness Area: protected area managed mainly for wilderness protection
Il 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

The site is included in the Natura 2000 Network, designated both as SPA and SCI, and in the Waterfowl Habitats Conservation Programme. Hunting of waterfowl is prohibited in an area of ca. 100 ha, which is based on the decision of the local Game Management Society.

Conservation of the Natura 2000 site will be carried out under the Nature Conservation Act.

5.2.5 - Management planning

Is there a site-specific management plan for the site? In preparation

Has a management effectiveness assessment been undertaken for the site?

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?

5.2.6 - Planning for restoration

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

Further information

A flood protection general plan is in preparation.

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented
Plant species	Implemented
Animal species (please specify)	Implemented

The breeding bird fauna was surveyed in 1982–84, 1996 and in 2016. The macrophyte vegetation was studied in 1982 and 2016. The fungus Hypocreopsis lichenoides was studied in 2017. Moor frog and flying squirrel were studied in 2017.

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

Jaaksi, V. 1985. Vassorfjärdenin ja Österfjärdenin pesimälinnusto 1982–84. Siipipeili 1.

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.

Meriläinen, J. 1984. Macrophyte vegetation at the River Kyrönjoki estuary in 1982. Vesientutkimuslaitoksen julkaisuja 57, Vesihallitus.

Tiainen, J., Mikkola-Roos, M., Below, A., Jukarainen, A., Lehikoinen, A., Lehtiniemi, T., Pessa, J., Rajasärkkä, A., Rintala, J., Sirkiä, P. & Valkama, J. 2016: Suomen lintujen uhanalaisuus 2015 – The 2015 Red List of Finnish Bird Species. Ympäristöministeriö & Suomen ympäristökeskus. 49 p.

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.

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

<no file available>

<no data available>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



An aerial view over Vassorfjärden estuary. (Hannu Vallas, 28-07-2011)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2004-02-02