



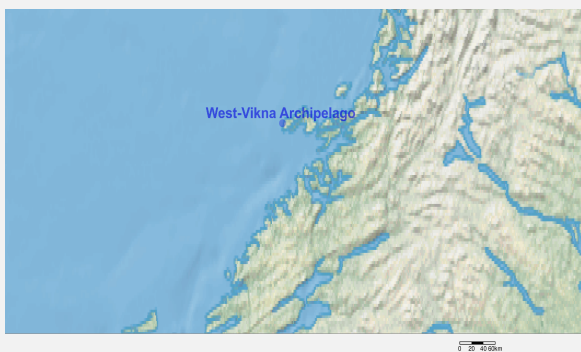
Ramsar Information Sheet

Published on 8 May 2023

Update version, previously published on : 9 July 2018

Norway

West-Vikna Archipelago



Designation date	27 May 2013
Site number	2165
Coordinates	64°53'48"N 10°43'35"E
Area	13 592,00 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 includes the major part of the West-Vikna archipelago consisting of several larger islands and numerous islets in shallow marine waters. The landscape has a mosaic pattern with rocky shores, narrow mires/bogs, and sparse vegetation influenced by seabird guano. Many of the islets have rocky shores where the vegetation cover is sparse. Some of the islands, with Kalvøya as the most spectacular example, are covered by a nationally endangered heathland in a mosaic with bogs and ponds. The large mires constitute important water reservoirs during dry periods and play an important role for flood control during periods of heavy precipitation. Deciduous forests cover about 5 % of Kalvøya island, mainly dominated by low-herb birch woodlands. The forest supports several old tree communities ranging 100-175 years and which support several interesting species such as the ghost orchid. More than 10 species of orchids are registered at Kalvøya. Hardly any other area in Norway has that many registered species of orchids.

The Site hosts a great biodiversity of flora compared to other coastal areas of central Norway. In total, more than 345 vascular plant species are registered, and on Kalvøya alone there are registered 289 species. Several species in this area are also found at their northernmost/southernmost distribution range.

The numerous islands and islets, the large shallow areas and a varied landscape also provide the basis for a rich and diverse birdlife throughout the year. The wetland supports breeding, staging and wintering populations of many nationally threatened species such as the Atlantic puffin and the black-legged kittiwake. The greylag goose also moult here in summer and the large shallow areas constitute important overwintering sites for seabirds. The islets also hold populations of the grey seal and the harbour seal. More rarely, the false killer whale, and the Eurasian otter visit the archipelago. The European roe deer is common on some of the islands.

There are also registered coastal spawning areas for fish within the Ramsar Site, particularly for the Atlantic cod (spawning period from February to May).

Human activity and land use within the Site includes fishing, agriculture and grazing.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Responsible compiler

Institution/agency

Postal address

National Ramsar Administrative Authority

Postal address

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

From year

To year

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Unofficial name (optional)

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 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?

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps

Boundaries description

The boundaries are the same as for the existing:
Borgann and Frelsøy Nature Reserve and Borgann and Frelsøy Animal Protected Area.
Kvaløy and Rauøy Nature Reserve and Kvaløy and Rauøy Animal Protected Area.
Sklinnafesin Protected Area
Fruflesa Nature Reserve
Nordøyan Nature Reserve
Sørøyan Nature Reserve
Ytre Brosmflesa Protected Area
Tronflesa Protected Area

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

RIS for Site no. 2165, West-Vikna Archipelago , Norway

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
EU biogeographic regionalization	1. Atlantic

Other biogeographic regionalisation scheme

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

West-Vikna archipelago with its islands, islets and shallow waters are representative wetland types in this biogeographic region. It has large areas with northern coastal heathland, which is typical for the region, but due to changes in agricultural practice, this habitat type is highly threatened. On Raudøya, there is a unique complex of asymmetric concentric raised bogs.

- Criterion 2 : Rare species and threatened ecological communities

Optional text box to provide further information

The wetland supports breeding, staging and wintering populations of many nationally threatened species such as the Atlantic puffin, and the black-legged kittiwake.

- Criterion 3 : Biological diversity

Justification

The protected area host a great biodiversity of flora compared to other coastal areas of central Norway. In total, more than 345 vascular plant species are registered, and on Kalvøya alone there are registered 289 species. Several species in this area is also found at their northernmost/southernmost distribution range. Additionally, the numerous islands and islets, the large shallow areas and the varied landscape provide the basis for a rich and diverse bird life that exists here throughout the year.

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

Optional text box to provide further information

The wetland supports breeding, staging and wintering populations of many nationally threatened species such as the black guillemot, the Atlantic puffin, and the black-legged kittiwake. The greylag goose also moults here in summer and the large shallow area constitutes an important overwintering site for seabirds.

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								
TRACHEOPHYTA/ LILIOPSIDA	<i>Calamagrostis stricta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A grass species with an Eastern distribution that is found at Kalvøya.
TRACHEOPHYTA/ LILIOPSIDA	<i>Carex appropinquata</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A sedge species with an Eastern distribution that is found at Kalvøya.
TRACHEOPHYTA/ LILIOPSIDA	<i>Carex bigelowii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		An Alpine/Northernboreal species that is fairly common at Kalvøya, but otherwise rare for this region.
TRACHEOPHYTA/ LILIOPSIDA	<i>Carex buxbaumii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		<i>Carex buxbaumii</i> ssp. <i>buxbaumii</i> . A sedge species with an Eastern distribution that is found at Kalvøya.
TRACHEOPHYTA/ LILIOPSIDA	<i>Carex chordorrhiza</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A sedge species with an Eastern distribution that is found at Kalvøya.

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
TRACHEOPHYTA / LILIOPSIDA	<i>Carex diandra</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A sedge species with an Eastern distribution that is found at Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Carex livida</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A sedge species with an Eastern distribution that is found at Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Carex rariflora</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		An Alpine/Northern species that is fairly common at Kalvøya, but otherwise rare for this region.
BRYOPHYTA / BRYOOPSIDA	<i>Catoscopium nigratum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A moss species with an Alpine/Northern distribution that is commonly found on Kalvøya.
BRYOPHYTA / BRYOOPSIDA	<i>Cinclidium stygium</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A moss species with an Alpine/Northern distribution that is commonly found on Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Corallorhiza trifida</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		This species is rarely found along the coast, but can be found at Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Epipogium aphyllum</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National Red List: Considered as VU	The rarest orchid in Norway.
MARCHANTIOPHYTA / JUNGERMANNIOPSIDA	<i>Gymnocolea borealis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A moss species with an Alpine/Northern distribution that is commonly found on Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Holcus lanatus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A Western species that is fairly common in this protected area, but otherwise rare for this region.
TRACHEOPHYTA / LILIOPSIDA	<i>Luzula sylvatica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A Western species that is fairly common in the deciduous forests on Kalvøya, but otherwise rare for this region.
TRACHEOPHYTA / LILIOPSIDA	<i>Potamogeton polygonifolius</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A Western species that is fairly common in this protected area, but otherwise rare for this region.
BRYOPHYTA / SPHAGNOPSIDA	<i>Sphagnum lindbergii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A moss species with an Alpine/Northern distribution that is commonly found on Kalvøya.
TRACHEOPHYTA / LILIOPSIDA	<i>Trichophorum alpinum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A sedge species with an Eastern distribution that is found at Kalvøya.

Species not yet included in the Catalogue of Life:

Sphagnum austinii - Criterion 3 - A Western species that is fairly common in the mires found at Kalvøya and Borgan, but otherwise rare for this region.

Hierochloë odorata odorata - Criterion 3 - A species with an Eastern distribution that is found at Kalvøya.

There are also several nationally common species found at Kalvøya which are regionally rare for this location, such as the *Equisetum sylvaticum* (wood horsetail), the *Galium boreale* (Northern bedstraw) and the *Saussurea alpina* (Alpine Sawwort).

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				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								
Others																	
CHORDATA/ MAMMALIA	<i>Lutra lutra</i>	<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"/>				NT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ann. II Berne Convention	Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/ MAMMALIA	<i>Phoca vitulina</i>	<input 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"/>		Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
Birds																	
CHORDATA/ AVES	<i>Alauda arvensis</i>	<input 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"/>		Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/ AVES	<i>Anas crecca</i>	<input 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"/>		Criterion 4: The wetland supports breeding populations of this species.
CHORDATA/ AVES	<i>Anser anser</i>	<input 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"/>		Criterion 4: This species both breed and moult in this protected area.
CHORDATA/ AVES	<i>Arenaria interpres</i>	<input 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"/>		Criterion 4: This species breeds within the protected area.
CHORDATA/ AVES	<i>Bubo bubo</i>	<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"/>	National Red List: Considered as EN	Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/ AVES	<i>Calidris alpina</i>	<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"/>	Ann. II Berne Convention	Criterion 4: This species breeds in low numbers in this wetland area.
CHORDATA/ AVES	<i>Cephus grylle</i>	<input 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"/>		Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/ AVES	<i>Fratercula arctica</i>	<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"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	National Red List: Considered as EN	Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/ AVES	<i>Gavia adamsii</i>	<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"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	National Red List: Considered as VU	Criterion 4: This area function as an overwintering location for this species.
CHORDATA/ AVES	<i>Gavia immer</i>	<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"/>	Ann. II Berne Convention, Emerald Network	Criterion 4: This area function as an overwintering location for this species.
CHORDATA/ AVES	<i>Gavia stellata</i>	<input 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"/>		Criterion 4: This species breeds in the mires of this wetland.
CHORDATA/ AVES	<i>Haliaeetus albicilla</i>	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Criterion 4: Common breeding species in this area.
CHORDATA/ AVES	<i>Larus argentatus</i>	<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"/>	National Red List: Considered as VU	Criterion 4: Common breeding species. in this area.
CHORDATA/ AVES	<i>Larus canus</i>	<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"/>	National Red List: Considered as VU	Criterion 4: The wetland supports breeding populations of this species.
CHORDATA/ AVES	<i>Larus fuscus</i>	<input 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"/>		Criterion 4: This species is a common breeder on the site.
CHORDATA/ AVES	<i>Larus marinus</i>	<input 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"/>		Criterion 4: Common breeding species in this area.
CHORDATA/ AVES	<i>Mergus serrator</i>	<input 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"/>		Criterion 4: The wetland supports breeding populations of this species.
CHORDATA/ AVES	<i>Numenius arquata</i>	<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"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	National Red List: Considered as EN	Criterion 4: This species breeds in the mires of this wetland.
CHORDATA/ AVES	<i>Numenius phaeopus</i>	<input 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"/>		Criterion 4: This species breeds in the mires of this wetland.

Phylum	Scientific 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>Phalacrocorax aristotelis</i>	<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"/>					<input type="checkbox"/>	<input type="checkbox"/>	Ann. II Berne Convention	Criterion 4: The site holds considerable breeding colonies of this species.
CHORDATA/AVES	<i>Phalacrocorax carbo</i>	<input 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"/>			Criterion 4: The site holds considerable breeding colonies of this species.
CHORDATA/AVES	<i>Pluvialis apricaria</i>	<input 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"/>			Criterion 4: This species breeds in the mires of this wetland.
CHORDATA/AVES	<i>Podiceps grisegena</i>	<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"/>	Ann. II Berne Convention, Emerald Network		Criterion 4: This area function as an overwintering location for this species.
CHORDATA/AVES	<i>Rissa tridactyla</i>	<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"/>			VU	<input type="checkbox"/>	<input type="checkbox"/>	National Red List: Considered as EN		Criterion 4: The wetland supports breeding, staging and wintering populations of this species.
CHORDATA/AVES	<i>Somateria mollissima</i>	<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"/>			NT	<input type="checkbox"/>	<input type="checkbox"/>	Norwegian Red List: Considered as VU		Criterion 4: This is a common species that breed in this area.
CHORDATA/AVES	<i>Somateria spectabilis</i>	<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"/>	Ann. II Berne Convention		Criterion 4: This area function as an overwintering location for this species.
CHORDATA/AVES	<i>Stercorarius parasiticus</i>	<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"/>	Norwegian Red List: Considered as VU		Criterion 4: This species breeds within the protected area.
CHORDATA/AVES	<i>Sterna hirundo</i>	<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"/>	National Red List: Considered as EN		Criterion 4: The wetland supports breeding populations of this species.
CHORDATA/AVES	<i>Sterna paradisaea</i>	<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"/>	Ann. II Berne Convention, Emerald Network		Criterion 4: Common breeding species in this area.
CHORDATA/AVES	<i>Tringa totanus</i>	<input 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"/>			Criterion 4: This species breeds in the mires of this wetland.

1) Percentage of the total biogeographic population at the site

Capitalized letters shows the species' status on the National Red List 2021.

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
Coastal heath	<input checked="" type="checkbox"/>	Vest-Vikna archipelago exhibits excellent examples of northern coastal heathland. Due to changes in agricultural practice, this habitat type is threatened.	National Red List: Considered as EN

Optional text box to provide further information

Capitalized letters shows the habitats' status on the National Red List for Ecosystems and Habitat types 2018.

Coastal bog: This important nature type is found within the Ramsar-site.

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

4.1 - Ecological character

Marine shallow waters with a large production of marine invertebrates and fish, combined with seaweed beds and kelp forests sustains a rich animal life throughout the year.

Kalvøya is the largest island in the protected area, Borgan the second largest. Other large islands are Møskja, Ivarsøya, Bøsseløya og Brusøya. The skerries and islands in the outermost coastal zone have generally little vegetation cover due to the rough seas, however, certain rich hot-spots do exist (Kalvøya). Coastal heath and mires are the dominating habitat types on Kalvøya, with some deciduous forests and shrubs. In Northern parts of the island, one can find relatively large deciduous forests that are more than 100 years old. These old forests host several interesting species, such as the ghost orchid. The Site has a rocky coastal zone including areas with boulders and gravel. The vegetation on the smaller islets is often influenced by seabird droppings. On some of the islands, common heather is the dominating vegetation, often in a mosaic with bogs and ponds. Large mires are the dominating vegetational cover on some of the other islands.

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		Representative
D: Rocky marine shores		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 peat soils >> U: Permanent Non-forested peatlands		3		Unique

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Calluna vulgaris</i>	This species is common on the site.
TRACHEOPHYTA/LILIOPSIDA	<i>Carex lepidocarpa</i>	National Red List: Considered as NT
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Cochlearia officinalis</i>	In the gulls and cormorants colonies the droppings give nitrogenous substrate which benefit plants like this species.
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Empetrum nigrum</i>	This species is common on the site.
BASIDIOMYCOTA/AGARICOMYCETES	<i>Entoloma griseocyaneum</i>	National Red List: Considered as NT
BASIDIOMYCOTA/AGARICOMYCETES	<i>Entoloma mougeotii</i>	National Red List: Considered as NT
BASIDIOMYCOTA/AGARICOMYCETES	<i>Hygrocybe aurantiosplendens</i>	National Red List: Considered as NT
BASIDIOMYCOTA/AGARICOMYCETES	<i>Hygrocybe russocoriacea</i>	National Red List: Considered as NT
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Rumex acetosa</i>	In the gulls and cormorants colonies the droppings give nitrogenous substrate which benefit plants like this species.
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Salix triandra</i>	National Red List: Considered as NT
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Silene dioica</i>	This species is common on the site.
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Tripleurospermum inodorum</i>	This species is common on the site.

Invasive alien plant species

Phylum	Scientific name	Impacts	Changes at RIS update
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Ribes rubrum</i>	Potential	No change

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
ARTHROPODA/INSECTA	<i>Bombus muscorum</i>				National Red List: Considered as NT
CHORDATA/MAMMALIA	<i>Capreolus capreolus</i>				This species is common on some of the islands.
CHORDATA/MAMMALIA	<i>Halichoerus grypus</i>				The site holds a population of this species.
CHORDATA/MAMMALIA	<i>Pseudorca crassidens</i>				This species visits rarely the site.
CHORDATA/AVES	<i>Hydrobates pelagicus</i>				This species probably breeds on the site.

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)

The climate is a typical coastal Atlantic climate with annual precipitation of 700-1000 mm and averaging about 200 days with precipitation pr. year. High humidity, cool summers and mild winters. October is the month with the heaviest precipitation (average of 100 mm), while May is the driest month (average precipitation below 40 mm).

A yearly middle temperature of 6,0°C. August is the warmest month, with an average of 12,5°C, while January/February are the coldest months (average 0,6°C).

Snow usually occurs in the period between November-April, with an expected highest snow depth in December.

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.

Norwegian Sea.

4.4.3 - Soil

Mineral

(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)

Vest-Vikna archipelago consists of granite formed during the Caledonian orogeny. Kalvøya is dominated by calcareous/siliceous slate and mica shists.

Migmatic gneiss is the most common bedrock found in Vikna, however, on Kalvøya softer and more calcareous bedrocks dominate, such as calcium silicate minerals and schist. While hard and acidic gneiss erode slowly and provide a thin, acidic and nutrient-poor soil, calcium silicate minerals and schists are softer bedrocks that erode more quickly, providing a more basic and nutrient-rich soil. Along the coast of Nord-Trøndelag and Fosen the gneiss bedrock dominate, making Kalvøya a special location in this regard.

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
Water inputs from precipitation	<input type="checkbox"/>	No change
Marine water	<input type="checkbox"/>	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:

The site consists mostly of shallow marine waters less than 50 metres deep at low tide. However, some deeper areas occur in the surrounding ocean. The archipelago is situated in a larger area of shallow water with water depth between 0 and 50 meters. Between some of the islands there are narrow straits with strong currents.

Middle tidal amplitude is approx. 1,5-2,0 m, creating strong East-Western tidal currents.

The large mires constitute important water reservoirs, provide stability in water flow and availability by constituting reservoirs in dry periods and flood control during periods of heavy precipitation.

4.4.5 - Sediment regime

Sediment regime unknown

(ECD) Water temperature

The annual average oceanic temperature ranges from 6°C in March to 13°C in August.

4.4.6 - Water pH

Unknown

4.4.7 - Water salinity

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

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 site itself: i) broadly similar ii) significantly different

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:

Fishing and fish farming takes place in surrounding waters.

There might still be some collection of eggs from gulls in the traditional manner on neighbouring islands, but it is somewhat unclear if people in the area still follow this tradition.

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)	Medium
Fresh water	Drinking water for humans and/or livestock	Medium
Wetland non-food products	Livestock fodder	Medium

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Hazard reduction	Coastal shoreline and river bank stabilization and storm protection	Medium
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low
Scientific and educational	Long-term monitoring site	Medium

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Nutrient cycling	Carbon storage/sequestration	Medium

Other ecosystem service(s) not included above:

Fishing. Agriculture (Borgan) and grazing (Kalvøya, Borgan).

In the past some of the islands had settlements. A few islands (e.g. Ivarsøya, Frelsøya, Raudøya, Kvaløya) still have houses or cottages, today mainly used for recreational purposes.

Some of the islands are part of the national monitoring program for seabirds (SEAPOP).

No current recreation or tourism, except some tourism on the island Borgan, where transportation is available with the local ferry and one can find simple overnight accommodation, but no shops or restaurants/cafes.

Due to the fact that most of the shoreline consists of hard granite rocks; erosion is minimal, despite a harsh winter climate. The large mires constitute important water reservoirs. They provide stability in water flow and availability by constituting reservoirs in dry periods and flood control during periods of heavy precipitation.

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

(ECD) Nutrient cycling

Some of the smaller islands have a vegetation cover influenced by seabird guano.

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 checked="" type="checkbox"/>

Private ownership

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

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

Within the Ramsar site:
Private (most of the islands). The Norwegian Government (sea, Sørøyen and some smaller islands)

In the surrounding area:
The Norwegian Government (sea)

5.1.2 - Management authority

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

County Governor of Trøndelag

Postal address:

Statsforvalteren i Trøndelag
Pb. 2600
N-7734 STEINKJER

E-mail address:

sftlpost@statsforvalteren.no

5.2 - Ecological character threats and responses (Management)

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

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Housing and urban areas	Medium impact	Medium 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
Marine and freshwater aquaculture	Low impact	Medium 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	unknown impact	High impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Oil and gas drilling	unknown impact	High impact	<input 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
Fishing and harvesting aquatic resources	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

Within the Ramsar site:
 Constructions (weekend cottages, quays).
 In the past, the seabirds profited of gubbins from local fishing industry.

Previously several islands had grazing fauna, these islands are now characterized by overgrowth.

There have also previously been collection of eider down and eggs, berry picking and peat-harvesting.

In the surrounding area:
 Fish farming and constructions in the nearby area (weekend cottages, quays).

In a screening of potential conflict areas regarding wind power plants and seabirds, Vikna was recognized as a vulnerable location regarding the development of wind power plants.

Potential oil spills also constitute a threat.

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Nature Reserve & Animal Protected Area 1	Borgan and Frelsoy		whole
Nature Reserve & Animal Protected Area 2	Kvaløy and Raudøy		whole
Nature Reserve 1	Frufløsa		whole
Nature Reserve 2	Nordøyan		whole
Nature Reserve 3	Sorøyan		whole
Protected Area 1	Sklinnaflesin		whole
Protected Area 2	Ytre Brosmflea		whole
Protected Area 3	Tronflesa		whole

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

Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented

Other:

The area is given status as a Nature Reserve, Animal Protected Area and Protected Area. Human activity is regulated by an official set of regulations. The aim is to conserve the landscape with important botanical and zoological elements on land and at sea.

5.2.5 - Management planning

Is there a site-specific management plan for the site? No

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 need identified

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented

Some of the islands are part of the national monitoring program for seabirds (SEAPOP).

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Artsdatabanken (2021, 24. november). Norsk rødliste for arter 2021. <https://www.artsdatabanken.no/lister/rodlisterforarter/2021>

Artsdatabanken (2018). Norsk rødliste for naturtyper 2018. Hentet (July 2022) fra <https://www.artsdatabanken.no/rodlisterformatyper> (2018 Norwegian Red List for Ecosystems and Habitat Types. Artsdatabanken, Norway)

Nilsen, L.S. & Moen, A. 2003. The plant cover of Kalvøya at Borgan, Vikna, Central Norway; and management plan for the coastal heathlands. NTNU Vitensk.mus. Rapp. Bot. Ser. 2003-3: 1-51.

Christensen-Dalsgaard, S., Lorentsen, S.-H., Dahl, E. L., Follestad, A., Hanssen, F. & Systad, G. H. 2010. Marine wind farms - seabirds, white-tailed eagles, Eurasian eagle-owl and waders. A screening of potential conflict areas - NINA Report 557. 100 pp.

Østerås, T.R. & Thingstad, P.G. 2011. Hekkefaunaen på Kråkøya, Vikna kommune, sommeren 2011, og mulige konflikter ved endret arealbruk. – NTNU Vitenskapsmuseet Zoologisk Notat 2011, 5: 1-14.

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Kaspersen, T.E. 1997. Utkast til verneplan for sjøfuglområder i Nord-Trøndelag. - Fylkesmannen i Nord-Trøndelag, Miljøvernavdelingen. Rapport 3-1997. 1-221.

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Moen, A. 1998. Nasjonalatlas for Norge; vegetasjon. Statens Kartverk, Hønefoss

Nilsen, L.S. & Moen, A. 2003. Plantelivet på Kalvøya ved Borgan, Vikna, og forslag til skjøtsel av kystlyngheilandskapet. NTNU Vitensk.mus. Rapp. Bot. Ser. 2003-3: 1-51.

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

<7 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



The islets and skerries found just outside Kalvøya. (Hilde Ely-Aastrup, 10-04-2010)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation