



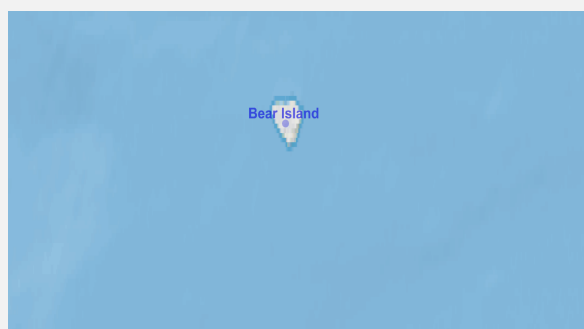
# Ramsar Information Sheet

Published on 23 June 2023

Update version, previously published on : 15 November 2017

## Norway

### Bear Island



Designation date	12 November 2010
Site number	1966
Coordinates	74°26'03"N 19°01'31"E
Area	298 171,00 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

Bear Island (Bjørnøya) is the southernmost island of the Svalbard archipelago, situated half-way between Svalbard and mainland Norway. The Ramsar Site includes a marine area of 2806 km<sup>2</sup> (94%) around the island. The relatively flat northern part of the island forms is dotted with lakes, whereas the south-eastern and southern parts are mountainous. The island is 20 km long and 15 km wide, with approximately 750 small lakes and ponds covering over 10% of the island. Most of these lakes are shallow and dry out during the summer months. Only 10-15 lakes are deeper than 3m. Ellasjøen with 34m depth being the deepest.

The Polar Front surrounds the island to the east, south and west, providing conditions for a high primary production, making it an important area for fish and consequently seabirds. Higher production and biological diversity occurs in the warmer Atlantic waters south and west of the front than in the Arctic waters to the north. The shallow marine area surrounding Bjørnøya is an important nursery ground for cod, haddock, saithe, herring, Norway redfish, Greenland halibut and American plaice. In total, there are 24 fish species observed in these waters. Most of the Arctic whale and seal species can be found here as well. Banks near Bjørnøya are hot-spots for several summer migrating baleen whales.

Seabirds dominate terrestrial life at Bjørnøya and monitoring programmes have been active since 1986. Bjørnøya has been a SEAPOP (SEAbird POPulations, [www.seapop.no](http://www.seapop.no)) key site since 2005 and a SEATRACK locality since 2013. A total of 126 different species of birds have been registered on the island, whereof 33 are breeding. The seabird colonies in the southern parts of the island are among the largest in the Northern hemisphere with approximately 440 000 breeding pairs (Anker-Nilssen et al. 2015). Between Glupen and Sørhamna there are almost 9 km of continuous bird cliffs. The island is the only land between Svalbard and the Norwegian coast and therefore constitutes an important resting area for birds migrating to and from Svalbard.

The island became a nature reserve in 2002, and has been identified as an Important Bird Area (IBA) by BirdLife International.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Responsible compiler

Institution/agency	Norwegian Environment Agency
Postal address	Post box 5672 Torgarden, N-7485 Trondheim, Norway

##### National Ramsar Administrative Authority

Postal address	Postboks 5672 Sluppen Trondheim Norway
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#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year	1986
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Bear Island
Unofficial name (optional)	Bjørnøya

#### 2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary	Yes <input type="radio"/> No <input checked="" type="radio"/>
(Update) B. Changes to Site area	No change to area
(Update) For secretariat only: This update is an extension	<input type="checkbox"/>

#### 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	Not evaluated
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## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

b) Digital map/image  
<1 file(s) uploaded>

Former maps	0
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##### Boundaries description

The boundary is the same as for the Bjørnøya Nature Reserve established August 16th 2002. The boundaries were later expanded to 12 nautical miles December 12th 2008.

### 2.2.2 - General location

a) In which large administrative region does the site lie?	Svalbard
b) What is the nearest town or population centre?	Longyearbyen (approx. 430 km from Bjørnøya, population approx 2 300)

### 2.2.3 - For wetlands on national boundaries only

- a) Does the wetland extend onto the territory of one or more other countries? Yes  No
- b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

### 2.2.4 - Area of the Site

Official area, in hectares (ha): 298171

Area, in hectares (ha) as calculated from  
GIS boundaries 298301.879

## 2.2.5 - Biogeography

## Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Other scheme (provide name below)	1. MATZ – middle arctic tundra zone.
EU biogeographic regionalization	2. Arctic

## Other biogeographic regionalisation scheme

1. Zonal division based on the distribution of thermophilous vascular plant species. Vascular plants abundant on Svalbard are divided into five groups based on temperature demands and the distribution of these groups of species have been surveyed in 163 areas (Elvebakk 1997)
2. Biogeographical Regions, European Environment Agency, 2005

### 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

In a global context Bjørnøya has a unique geology, ecology and cultural history. Due to its isolation and low human activity impact, the Site constitutes one of the few intact ecosystems in Europe. The Site's location at the Polar front results in the sea's high primary production, which is the basis for the birdlife on the island. The bird cliffs are the most dominant habitat on the island, where the cliffs host one of the largest seabird colonies in the Northern Hemisphere.

- Criterion 2 : Rare species and threatened ecological communities

Optional text box to provide further information

The island host several rare species such as Razorbills (IUCN: LC, Svalbard Red List: EN), Atlantic Puffins (IUCN: VU), Ivory Gull (IUCN: NT, Svalbard Red List: VU), Steller's Eiders (IUCN: VU, Svalbard Red List: VU), Common Murre (Svalbard Red List: NT) and Sabine's Gull (Svalbard Red List: EN) in addition to walrus (IUCN: VU, Svalbard Red List: VU) and polar bears (IUCN: VU, Svalbard Red List: VU).

- Criterion 3 : Biological diversity

Justification

Bjørnøya is considered important for maintaining the biological diversity in the biogeographic region. The seabird colonies in the south of Bjørnøya are among the largest found in the Northern Hemisphere. It is estimated that over a million seabirds gather here during the breeding season. The island is home to the world's northernmost sizeable breeding colony of Common Murres, and also has one of the world's northernmost colonies of Razorbills (IUCN: LC, Svalbard Red List: EN).

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

Optional text box to provide further information

The shallow waters surrounding the island are influenced by the Polar Front and create an environment suitable as a nursing area for several fish species. These environmental conditions also result in a large primary production, a condition to sustain the rich bird life during migration and nesting periods.

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

Estimated 440 000 breeding pairs of seabirds

Start year

2005

End year

2014

Source of data:

Anker-Nilssen et al. 2015

Optional text box to provide further information

Seabirds have been monitored on Bjørnøya since 1986. Bjørnøya supports breeding populations of Northern fulmars (30 000 pairs), Black-legged kittiwakes (135 000 pairs), Little auks (50 000 pairs), Common murres (132 000 pairs) and Thick-billed murres (95 000 pairs).

- Criterion 6 : >1% waterbird population

Optional text box to provide further information

The island supports approx. 135 000 breeding pairs of Black-legged kittiwakes (Svalbard Red List; NT), comprising 2% of the population in this biogeographic region (Arctic from NE Canada to Novaya Zemlya/N Atlantic)

### 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

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								
<b>Others</b>																	
CHORDATA / MAMMALIA	<i>Odobenus rosmarus</i>	<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"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU	
CHORDATA / MAMMALIA	<i>Ursus maritimus</i>	<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"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU	
<b>Birds</b>																	
CHORDATA / AVES	<i>Alca torda</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	2014		LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as EN	Criterion 3 & 4: The island is home to one of the world's northernmost colonies of Razorbills <i>Alca torda</i> . Approx. 100 pairs are breeding within the site.
CHORDATA / AVES	<i>Anser brachyrhynchus</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: Svalbard's populations of this species stop at Bjørnøya during their seasonal migration.
CHORDATA / AVES	<i>Branta bernicla hrota</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"/>	Svalbard red list: Considered as NT	Criterion 4: Svalbard's populations of this species stop at Bjørnøya during their seasonal migration.
CHORDATA / AVES	<i>Branta leucopsis</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: Svalbard's populations of this species stop at Bjørnøya during their seasonal migration.
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"/>	2000			VU	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as LC (Norwegian red list: EN)	Criterion 4: Bjørnøya has breeding populations of this species. Less than 1000 pairs are breeding within the site.
CHORDATA / AVES	<i>Fulmarus glacialis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	60000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as LC (Norwegian red list: EN)	approx. 30 000 pairs Criterion 4: Bjørnøya has breeding populations of this species.
CHORDATA / AVES	<i>Larus fuscus 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"/>	8			LC	<input type="checkbox"/>	<input type="checkbox"/>		3-4 pairs (northern border for distribution) Criterion 4: Bjørnøya has breeding populations of this species.
CHORDATA / AVES	<i>Larus hyperboreus</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"/>	800			LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU	approx. 400 pairs Criterion 4: Bjørnøya has breeding populations of this species.
CHORDATA / AVES	<i>Pagophila eburnea</i>	<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"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU	
CHORDATA / AVES	<i>Polysticta stelleri</i>	<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"/>				VU	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Svalbard red list: Considered as VU	
CHORDATA / AVES	<i>Rissa tridactyla</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	270000		4.4	VU	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as NT (Norwegian red list: EN)	approx. 135 000 breeding pairs Criterion 4: Bjørnøya has breeding populations of this species. Criterion 6: Biogeographic region: Arctic from NE Canada to Novaya Zemlya/N Atlantic
CHORDATA / AVES	<i>Uria aalge</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	264000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as NT (Norwegian red list: CR)	approx. 132 000 pairs. Criterion 3 & 4: The island is home to the world's northernmost sizeable breeding colony of Common Murre <i>Uria aalge</i> .

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>Uria lomvia</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	190000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU (Norwegian red list: CR)	approx. 95 000 breeding pairs Criterion 4: Bjørnøya has breeding populations of this species.
CHORDATA / AVES	<i>Xema sabini</i>	<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"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Svalbard red list: Considered as VU	

1) Percentage of the total biogeographic population at the site

Capitalized letters shows the species' status on the Svalbard Red List 2021. Population sizes are estimates of breeding individuals and do not include the total population. Estimates from 2014 (Anker-Nilssen et al. 2015).

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

<no data available>

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

### 4.1 - Ecological character

Situated in the Arctic and characterized by:

- An extremely isolated island surrounded by a shallow seaself with high primary production
- Steep cliffs with seabird colonies among the larges found in the Northern Hemisphere
- Approx. 750 lakes and small ponds, covering over 10% of the area of the island

### 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		
D: Rocky marine shores		2		Unique

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 > Lakes and pools >> O: Permanent freshwater lakes		3		
Fresh water > Marshes on inorganic or peat soils >> Vt: Tundra wetlands		4		
Fresh, saline, brackish or alkaline water > Subterranean >> Zk(b): Karst and other subterranean hydrological systems				

### 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
E: Polar climate with extremely cold winters and summers	ET: Tundra (Polar tundra, no true summer)

The climate is Arctic oceanic. The meeting between cold Arctic waters and cold air masses from the North with the warmer waters and warmer air masses from the South creates unstable weather conditions and polar low pressures with high wind speeds. Temperature differences between summer and winter are low. There is a lot of wind and fog due to the prevailing polar lows, small-scale, short-lived atmospheric low-pressure systems that develop over the ocean.

The yearly middle temperature is -2.4°C (Ottar 5-2005). July is the warmest month (middle temperature +4.4°C) and January is the coldest month (middle temperature -7,4°C). Annual precipitation is 371 mm (met.no, npolar.no)

#### 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

Organic

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

No available information

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

Please provide further information on the soil (optional)

The areas surrounding the bird cliffs are the most fertile, while the rest of the island is characterized as barren. On top of the bird cliffs in the south there are peat deposits which are several meters thick. The peat deposits results from thousands of years of remains from guano, feathers and eggs. In combination with low temperatures, this have created deposits up to 5 m thick overlying cores of ice produced by the permafrost. Only the top layers melt during summer months. These layers of turf are 8 000 - 9 000 years old.

The bedrock varies as to chemical composition. Some soil is high in Na, which is presumably caused by sea-spray. Bird manure contributes to the enrichment of N and P, and the seabirds also drop shells and carcasses.

Observed ground thawing down to approximately 0,75 m in the summer. Below this level permafrost continues down to 60-70 m.

#### 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 checked="" type="checkbox"/>	No change
Marine water	<input type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
Marine	No change

Stability of water regime

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

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

Bjørnøya is surrounded by a shallow sea. The difference between high and low tide is 1.2-2.2 m. Most of the lakes on the island are quite shallow, and only 10-15 lakes are deeper than 3 m in depth. Ellasjøen is the deepest lake (35 m).

All freshwater originate from precipitation (water retention function).

#### 4.4.5 - Sediment regime

Sediment regime unknown

<no data available>

#### 4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)

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

Unknown

Please provide further information on pH (optional):

pH is 7.1

#### 4.4.7 - Water salinity

Unknown

Please provide further information on salinity (optional):

A combination of vertical mixing of sea masses during autumn and winter, which brings nutrition up from the deep sea, and a layering in spring and summer has a boosting effect on primary production. Influx and outflux of water also have a positive effect on vertical mixing and supply of nutrients. A thermocline develops in spring and during the summer as the surface water is heated by the atmosphere and by radiation from the sun. Together with warm Atlantic water the increasing heat also rapidly melts the ice, which covers the sea during the colder period of the year. The melted ice forms a layer of surface water with low salinity which adds to the layering effect of the thermocline. This stable layer of water may reach depths of up to 50-60 meters in the south-western part of the Barents Sea.

#### 4.4.8 - Dissolved or suspended nutrients in water

Unknown

<no data available>

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

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

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

### 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

##### Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	Medium

##### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Low
Recreation and tourism	Nature observation and nature-based tourism	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Low
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Major scientific study site	High

##### Supporting Services

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

Other ecosystem service(s) not included above:

All freshwater originate from precipitation (water retention function).

Bjørnøya was discovered in 1596, and its history revolves around hunting; particularly that of walrus, polar bears, seals, whales and seabirds. In the 1900s, coal and galena were extracted for a short period. This has left several protected cultural heritage sites. There were both German and Allied activities here during the Second World War.

The island is visited by scientific researchers, both Norwegian and from other nations parts of the year. Most of the areas are untouched nature with no nearby human activity. In addition, tourists make landings every year within the borders of Bjørnøya Nature reserve. In 2009 there were approximately 200 persons visiting Bjørnøya by boat. Oversea Cruiseliners often sail close to the island on their way up to or down from Spitsbergen.

See additional material for further information.

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

The bird cliffs are considered to be important in the nutrient flow between ocean and land.

## 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"/>

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

Within the Ramsar site: State owned.  
In the surrounding area: State owned

#### 5.1.2 - Management authority

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

Governor of Svalbard

Postal address:

PO Box. 633, N-9171 Longyearbyen

E-mail address:

firmapost@sysselmesteren.no

## 5.2 - Ecological character threats and responses (Management)

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

#### Energy production and mining

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

#### Human intrusions and disturbance

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

#### Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Industrial and military effluents	Medium impact	Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Air-borne pollutants	Medium 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: The human activity on the island itself is low, and consists of a manned meteorological station and scientific research. Previous activities, such as hunting for marine mammals and birds, collection of bird eggs and excavation of coal and galena, are no longer taking place. Traffic on the island and close to bird colonies is strongly regulated. A low number of tourists visit the island yearly with expedition cruise vessels. The presence of POPs in local biota most likely results from long-range transport of contaminants to the area.

In the surrounding area: The southern part of the Barents Sea north to 74° 30' N is formally opened to petroleum activities. However, in the Integrated Management Plan for the Barents Sea and the Sea Areas off the Lofoten Islands the Government has established a framework for petroleum activities on the basis of an evaluation of the areas identified as particularly valuable and vulnerable and an assessment of the risk of acute oil pollution. In accordance with this framework, no petroleum activities will be initiated within a 65-km zone around Bjørnøya.

#### 5.2.2 - Legal conservation status

##### National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Nature Reserve	Bjørnøya		whole

##### Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Bjørnøya nature reserve	<a href="http://datazone.birdlife.org/site/factsheet/bj%C3%B8rn%C3%B8ya-(bear-island)-iba-svalbard-and-jan-mayen-islands-(to-norway)/details">http://datazone.birdlife.org/site/factsheet/bj%C3%B8rn%C3%B8ya-(bear-island)-iba-svalbard-and-jan-mayen-islands-(to-norway)/details</a>	partly

5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II National Park: protected area managed mainly for ecosystem protection and recreation
- III Natural Monument: protected area managed mainly for conservation of specific natural features
- IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
- V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
- VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Other:

The southern part of the Barents Sea North to 74° 30' N is formally opened to petroleum activities. However, in the integrated management plan for the Barents Sea and the sea areas off the Lofoten Islands the government has established a framework for petroleum activities on the basis of an evaluation of the areas identified as particularly valuable and vulnerable and an assessment of the risk of acute oil pollution. In accordance with this framework, no petroleum activities will be initiated within a 65-km zone around Bjørnøya.

5.2.5 - Management planning

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

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

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

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

No such activities have been conducted, mainly because of the remoteness of the area and difficult access.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented

Bjørnøya is included in The National Monitoring Programme for Seabirds. Bjørnøya is also included as one of the key-sites within SEAPOP (SEAbird POPulations), which is a long-term monitoring and mapping programme for Norwegian seabirds. Bjørnøya has also been a SEATRACK (national habitat mapping study in close collaboration with SEAPOP) locality since 2013.

Common guillemots and Brünnich's guillemots have been instrumented there since 2007, great skuas since 2008, black-legged kittiwakes and little auks since 2009 and glaucous gulls since 2010.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Anker-Nilssen, T., Barrett, R.T., Lorentsen, S.-H., Strøm, H., Bustnes, J.O., Christensen-Dalsgaard, S., Descamps, S., Erikstad, K.E., Fauchald, P., Hanssen, S.A., Lorentzen, E., Moe, B., Reiertsen, T.K., Systad, G.H. 2015. SEAPOP. De ti første årene. SEAPOP Nøkkeldokument 2005-2014: 58 s.

Elvebakk, A. 1989: Biogeographical zones of Svalbard and Jan Mayen based on the distribution patterns of thermophilous vascular plants. Unpubl. manuskript, Universitetet i Tromsø.

Norwegian Polar institute: <http://npweb.npolar.no/>

Forvaltningsplanen for perioden 2005-2010

Norsk Polarinstitutt Meddelse nr. 143 19997: Dokumentasjon og verneverdier på Bjørnøya

Forskningsrådet <https://www.forskningsradet.no>

Bear Island Metrological Station <http://bjornoya.org>

SEAPOP <http://www.seapop.no/en/>

Norwegian Polar History <http://www.polarhistorie.no>

Environmental Monitoring Svalbard and Jan Mayen <http://www.mosj.no/no/>

Tromsø Museum 2004: Bjørnøya – Historie, natur og forskning. Ottar nr. 5-2004.

Evenset, A., Christensen, G. N., Skotvold, T., Fjeld, E., Schlabach, M., Wartena, E., & Gregor, D. (2004). A comparison of organic contaminants in two high Arctic lake ecosystems, Bjørnøya (Bear Island), Norway. *Science of the Total Environment*, 318(1), 125-141.

#### 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

<1 file(s) uploaded>

vi. other published literature

<1 file(s) uploaded>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Revdalen, towards Kapp Kolthoff ( *Andrine Kylling/Sysselmannen, 30-06-2017* )



Stappen ( *Gunhild Lutnæs/Sysselmannen, 30-06-2017* )



Gravodden and the metrological station (not part of the Ramsar area) ( *Lise Loktu/Sysselmannen, 30-06-2017* )



Bird research in Revdalen ( *Andrine Kylling/Sysselmannen, 30-06-2017* )



The Hammerfest building, the oldest standing building on Svalbard ( *Lise Loktu/Sysselmannen, 30-06-2017* )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation