

# Ramsar Information Sheet

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# **Poland**Słowiński National Park



Designation date 24 October 1995
Site number 757
Coordinates 54°42'51"N 17°18'25"E
Area 32 744,00 ha

https://rsis.ramsar.org/ris/757 Created by RSIS V.1.6 on - 8 May 2020

# 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 Słowiński National Park (Słowiński Park Narodowy) is located in Pomorskie Voivodeship near the town of Łeba. The Site has an oblong shape and embraces about 33 km long stretch of the Baltic coast with 2-mile wide belt of shallow coastal waters. A unique combination of landscape features of the Site embraces diverse sand formations – wind-blown, stable and shifting encountered on the spit separating lakes from the sea, brackish coastal lakes as well as mires, meadows and woodland. All these elements create a rare environment supporting rich biodiversity. Of special importance are raised bogs of Baltic type, which, despite former exploitation, have preserved typical traits of rare and endangered wetland habitats. They stretch along with three heathlands and meadows in the vicinity of lakes: Łebsko and Gardno. Respectively, Łeba and Łupawa rivers discharge to those lakes on their way to the Baltic. Characteristic elements of local vegetation are coastal pine forests with Empetrum nigrum and swamp conifer forests with Erica tetralix and Myrica gale. Another important asset of the site is rich avifauna of the lakes. Shallow lake water is densely overgrown with reedbeds and dotted with numerous islands, providing safe nesting and resting places for birds. Of great value for science, and at the same time, an attraction for tourists are highest in Europe moving sand dunes at the shoreline where wind activity reveals fossil soils and traces of ancient forests. The wetland lies on the migration route of many birds – geese, swans, ducks, waders and plovers along the southern coast of the Baltic Sea.

# 2 - Data & location

#### 2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS	2.1.1	- Name	and	address	of the	compiler	of this	RIS
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#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year 2007

To year 2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Słowiński National Park
Spanish)	
Unofficial name (optional)	Słowiński Park Narodowy

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

(Update) A Changes to Site boundary Yes O No 

(Update) B. Changes to Site area

No change to area

# 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	Yes (actual)
<sup>(Update)</sup> Are the changes	Positive   Negative   Positive & Negative
(Update) No information available	
(Update) Optional text box to provide further information	

In the projects "Restitution and preservation of non-forest ecosystems in the Słowiński National Park" (2009)

and "Protection of selected habitats and priority species of the Ostoja Słowińska PLH220023 and Pobrzeże Słowiński PLB220003" the open nature of non-forest habitats in the Słowinski National Park was restored while limiting the decline of biodiversity and counteracting the negative effects of fragmentation of meadow and rush habitats being a breeding and feeding place for water-marsh birds in the Słowiński National Park. As part of the conservation tasks measures like mowing and grazing, as well as agri-environmental programs are implemented. The raid of trees and shrubs in valuable peat ecosystems is removed. The protection of the autochthonous Common Whitefish population is being implemented and a protection program for the species of ichthyofauna is being implemented. The number of invasive animal species, such as American Mink, Raccoon Dog, is monitored and regulated in order to reduce their pressure on nesting species of wetland birds.

American mining i account bogg, to mornitored and regulated in order to reduce and proceeding operation of weather bridge.
(Update) Changes resulting from causes operating within the existing boundaries?
(Update) Changes resulting from causes operating beyond the site's boundaries?
(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?
(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?
(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.
no data
(Update) Is the change in ecological character negative, human-induced  AND a significant change (shove the limit of acceptable change)

# 2.2 - Site location

#### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

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#### Boundaries description

The boundary of the Ramsar site is the same as the existing National Park. It follows the shoreline together with a 2 mile stretch of water, between mouths of Łupawa river in the NW and Łeba in the NE. The southern border runs along the peripheries of Gardno and Łebsko lakes and embraces forest tracts on southern shores of Łebsko lake, but excludes the area of the village of Smoldzino.

#### 2.2.2 - General location

a) In which large administrative region does the site lie?	Pomorskie
b) What is the nearest town or population centre?	Łeba

#### 2.2.3 - For wetlands on national boundaries only

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

#### 2.2.4 - Area of the Site

Official area, in hectares (ha): 32744

Area, in hectares (ha) as calculated from

GIS boundaries 32352.39

#### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region		
Udvardy's Biogeographical Provinces	10. Boreonemoral		
Baileys Ecoregions 220 Hot Continental Division			
WWF Terrestrial Ecoregions	Temperate broadleaf and mixed forest		
Marine Ecoregions of the World (MEOW)	24. Baltic sea		
EU biogeographic regionalization	Continetal		

#### Other biogeographic regionalisation scheme

Geobotanical region of deciduous forests of Central Europe at the edge of the East-European region of mixed forests (boreal) – according to the Polish regionalisation by Jerzy Kondracki, 2001: Regional geography of Poland. The region embraces eastern part of Denmark, southernmost Sweden, central and north-eastern Germany and most of the territory of Poland except for its two mountain ranges (Alpine region) and the north-eastern edge of the country, belonging to sub-boreal or East-European mixed forest biogeographic region.

Eastern Europe – Waterbird Population Estimates, Wetland International, 2002.

# 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

The Słowiński National Park abounds in water with lakes, rivers and canals of a joint surface of about 10000 ha and the coastal water belt of Baltic sea covering more than 11000 ha and maximal depth of 20 m. Water surface currently takes about 64% of the Park area. Due to a very low elevation of water table in Hydrological services provided the lakes (Łebsko – only 9 cm a.s.l.) the phenomenon of back flow occurs (pouring of seawater via rivers to the lakes during stormy weather). This results in salinisation of lakes and fluctuations in their water table (up to 18 cm in the Gardno lake). Smaller lakes are silted and do not have a connection to the sea. The waters provide an opportunity for fishing and are used by local inhabitants and visitors to the Park.

> The site has a rich variety of strikingly diverse habitats arranged in zones from littoral, to sand beach, moving dunes, lakes, mires, meadows and forests providing for the diversity of ecotones and dynamic spatial relationships. This results in the zonal vegetation pattern reflecting local relief features. Most of the habitats are well developed and preserved on large surfaces, and 27 habitat types are of the European Community importance (Annex I to Habitat Directive) of which 7 are classified as priority habitats. Important types of habitats within the Park include (code corresponds to the NATURA 2000 code): (1130) Estuaries, (1150\*) Coastal lagoons, (1330) Atlantic salt meadows (Glauco-Puccinellietalia maritimae), (2190) Humid dune slacks, (3110) Oligotrophic waters containing very few minerals of sandy plains: Littorelletalia uniflorae, (3130) Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoëto-Nanoiuncetea. (3150) Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation, (3160) Natural dystrophic lakes and ponds, 3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation, (7110\*) Active raised bogs, (7120) degraded raised bogs still capable of natural regeneration, (7140) transition mires, (4010) Northern Atlantic wet heaths with Erica tetra lix, (6410) Molinia meadows on calcareous, peaty or clavey-silt-laden soils (Molinion caeruleae), (91D0\*) Bog woodland, (91E0\*) Alluvial forests with Alnus glutinosa and Fraxinus excelsior, (91F0\*) Riparian mixed forests of Quercus robur, Ulmus laevis and Ulmus minor, Fraxinus excelsior or Fraxinus angustifolia, along the great rivers (Ulmenion minoris).

Other reasons

☑ Criterion 2 : Rare species and threatened ecological communities

☑ Criterion 3 : Biological diversity

The site supports populations of plant species important for maintaining the regional biodiversity including Luronium natans. Linaria odora. Liparis loeselii – species of European importance (Habitat Directive Annex II). It also supports important populations of glacial (boreal) relics such as Rubus chamaemorus, Viola epipsila and Linnea borealis on raised bogs and transitory mires, plants nationally scarce and endangered elsewhere due to general decline of natural hydrogenic biotopes in the continental region. In SNP, species of the Polish Red Data Book of Plants (2001) – Littorella uniflora, Carex limosa, Justification Rhynchospora fusca and Isoetes lacustris have also their noteworthy populations. The wetland also harbours rare species of algae such as - Hildenbrandtia rivularis in Łupawa river, and a sponge Spongilla lacustris in Smołdzino lake - unique and vulnerable to extinction at continental scale. Within the site there are at least 25 bird species listed in the Annex I of the Birds Directive, above all: Aegolius funereus, Asio flammeus, Botaurus stellaris and Philomachus pugnax. 15 bird species are endangered and listed in the Polish Red Data Book of Animals

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

☑ Criterion 5 : >20,000 waterbirds

Overall waterbird numbers	20000+
Start year	2012
Source of data:	Monitoring Team of the Slowinski National Park, 2018, unpublished

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

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Corallorhiza trifida	Early Coralroot; Northern Coralroot; Yellow Coralroot	<b>2</b>				<b>2</b>	Species protected in Poland	
Dactylorhiza fuchsii	Common Spotted Orchid	<b>2</b>				<b>2</b>	Species protected in Poland	
Dactylorhiza incarnata	Early Marsh-orchid	<b>2</b>				Ø	Polish Red Data Book of Plants (EN), Species protected in Poland	
Dactylorhiza maculata	Heath Spotted-orchid	<b>2</b>				<b>₽</b>	Species protected in Poland	
Dactylorhiza majalis	Western Marsh Orchid	<b>₽</b>				<b>2</b>	Species protected in Poland	
Epipactis atrorubens	Royal Helleborine; Dark- red Helleborine	<b>2</b>				<b>2</b>	Species protected in Poland	
Goodyera repens	Creeping Ladys-tresses	<b>2</b>				<b>2</b>	Species protected in Poland	
Leucobryum glaucum	White Moos		V					Annex 5 of the Habitats Directive (Council Directive 92/43/EEC)
Linaria odora		<b>2</b>	V				IUCN Red List status (NT), Polish Red Data Book of Plants (EN)	Annex 2,4 of the Habitats Directive (Council Directive 92/43/EEC)
Menyanthes trifoliata	Bogbean; Buckbean	<b>2</b>			LC Sir	<b>₽</b>	Species protected in Poland	
Neottia cordata	Lesser Twayblade; Heartleaf Twayblade	<b>2</b>				<b>2</b>	Species protected in Poland	
Neottia ovata	Common Twayblade	<b>2</b>				<b>2</b>	Species protected in Poland	
Plantago uniflora		<b>2</b>					Species protected in Poland, Polish Red Data Book of Plants (EN)	
Rubus chamaemorus	Cloudberry, Knotberry	<b>Ø</b>			LC		Species protected in Poland. Polish Red Data Book of Plants (EN)	

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Lycopodium spp. - Clubmosses; Annex 5 of the Habitats Directive (Council Directive 92/43/EEC)
Cladonia subgenus Cladina - Cladonia subgenus Cladina (Lichens); Annex 5 of the Habitats Directive (Council Directive 92/43/EEC)
Sphagnum spp. - Peat moss; Annex 5 of the Habitats Directive (Council Directive 92/43/EEC)

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

F	Phylum	Scientific name	Common name	Species qualifies under criterion 2   4   6   9	under criterion	Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List		Other Status	Justification
Birds												

Phylum	Scientific name	Common name	qua un crite	lifies co	Species ontribute under criterion	Size	Period of pop. Est.	% occurrence		CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA/ AVES	Anas penelope	Eurasian Wigeon				2500	2012-2018						pop. max 2500 i
CHORDATA/ AVES	Anas platyrhynchos	Mallard				2500	2012-2018		LC ●辭				pop. 2500 i
CHORDATA/ AVES	Anser albifrons	Greater White- fronted Goose				2000	2012-2018		LC ●歸				pop. 2000 i
CHORDATA/ AVES	Anser fabalis	Bean Goose				12000	2012-2018		LC St St				pop. 12000 i
CHORDATA/ AVES	Aquila chrysaetos	Golden Eagle	<b>/</b>			] 1	2007-2009		LC St St	<b>₽</b>		Annex I Birds Directive	pop. size: 1 pair
CHORDATA/ AVES	Aythya ferina	Common Pochard				600	2012-2018		VU ●\$‡ ●\$#				pop. max 600 i
CHORDATA/ AVES	Botaurus stellaris	Eurasian Bittern	<b>7</b>				1995-2003		LC Str			Annex I Birds Directive	pop. size: 1-2 males
CHORDATA/ AVES	Calidris alpina	Dunlin				140	1995-2003		LC ●器				migration pop. 140 i
CHORDATA/ AVES	Ciconia ciconia	White Stork	<b>/</b>			30	1995-2003		LC ●器			Annex I Birds Directive	pop. size: >30
CHORDATA/ AVES	Circus aeruginosus	Western Marsh Harrier	<b>/</b>			5	1995-2003		LC ●辭	✓		Annex I Birds Directive	pop. size: up to 5 pairs
CHORDATA/ AVES	Crex crex	Corn Crake	<b>2</b>			200	2007-2009		LC ●課			Annex I of the Birds Directive (Council Directive 79/409/EEC)	Important breeding place in biogeographical zone; pop. size: 200-250 breeding males
CHORDATA/ AVES	Cygnus cygnus	Whooper Swan	11			560	2007		LC Sign			Annex I Birds Directive	non-breeding, 560 during migrations
CHORDATA/ AVES	Gavia arctica	Arctic Loon; Black- throated Loon	<b>/</b>				2013		LC ●歸			Annex I Birds Directive	rare, non-breeding
CHORDATA/ AVES	Gavia stellata	Red-throated Diver; Red- throated Loon	<b>2</b>				2013		LC ●器			Annex I Birds Directive	rare, non-breeding
CHORDATA/ AVES	Grus grus	Common Crane	<b>V</b>			7500	2012-2018		LC Str	$\mathscr{L}$		Annex I of the Birds Directive (Council Directive 79/409/EEC)	important resting place during migration; pop. size: 45 breeding pairs, 7500 during migration
CHORDATA/ AVES	Haliaeetus albicilla	White-tailed Eagle	<b>/</b>				2004-2008		LC ●辭	✓	V	Annex I Birds Directive	pop. size: 6-7 pairs
CHORDATA/ AVES	Melanitta fusca	White-winged Scoter; Velvet Scoter				5000	2012-2018		VU ●\$* ●\$#			Annex II Birds Directive	pop. max. 5000
CHORDATA/ AVES	Mergellus albellus	Smew	<b>2</b>			2100	2012-2018		LC ●辭			Annex I of the Birds Directive (Council Directive 79/409/EEC)	Important resting place during migration; pop. size: 2100 during migration
CHORDATA/ AVES	Milvus migrans	Black Kite	<b>/</b>				1995-2003		LC om	$\checkmark$		Annex I Birds Directive	pop. size: 0-1
CHORDATA/ AVES	Milvus milvus	Red Kite					2006-2009		NT ●数 ●瞬	V		Annex I Birds Directive, Polish Red Data Book of Animals (NT)	pop. size: 5-6 pairs
CHORDATA/ AVES	Phalacrocorax carbo	Great Cormorant				4500	2012-2018		LC Sign				pop. max 4500 i.
CHORDATA/ AVES	Podiceps auritus	Horned Grebe	<b>2</b>				2013		VU Si Si Si Si Si Si Si Si Si Si Si Si Si			Annex I Birds Directive	rare, non-breeding

Phylum	Scientific name	Common name	Speci qualifi unde criteri 2 4 0	ies c er ion	Species contributes under criterion	Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA/ AVES	Porzana porzana	Spotted Crake				10	1995-2003		LC St St			Annex I Birds Directive	pop. size: >10 males
CHORDATA/ AVES	Sterna hirundo	Common Tem	<b>V</b>				1995		LC ●数 ●際			Annex I Birds Directive	pop. size: <10 pairs
CHORDATA/ AVES	Sternula albifrons	Little Tern			1000		1995		LC ●部 ●開			Annex I Birds Directive	pop size: 0-1 pairs
CHORDATA/ AVES	Tringa glareola	Wood Sandpiper	$ \square$			350	1995-2003		LC om			Annex I Birds Directive	non-breeding
Fish, Mollusc and Cru	stacea												
CHORDATA/ ACTINOPTERYGII	Coregonus lavaretus	Lavaret					2013		VU ●数 ●瞬			Annex 5 of the Habitat Directive (Council Directive 92/43/ EEC);	Important place in biogeographical zone., common in the site
CHORDATA/ CEPHALASPIDOMORPHI	Lampetra fluviatilis	Lampern; Lampern			000		2013		LC			Annex II Habitats Directive, Polish Red Data Book of Animals (EN)	
CHORDATA/ CEPHALASPIDOMORPHI	Lampetra planeri	European Brook Lamprey							LC St St			Annex II Habitats Directive, Polish Red Data Book of Animals (NT)	few ind.
CHORDATA/ ACTINOPTERYGII	Misgurnus fossilis	Mud Loach			1000				LC ●器			Annex II, IV Habitats Directive, Polish Red Data Book of Animals (NT)	
CHORDATA/ ACTINOPTERYGII	Pelecus cultratus	Sabrefish; Sabre Carp; Knife			1000		2013		LC ●器			Annex II Habitats Directive, Polish Red Data Book of Animals (NT)	veryrare
CHORDATA/ CEPHALASPIDOMORPHI	Petromyzon marinus	Lamprey Eel	<b>2</b> 00				2013		LC			Annex II Habitats Directive, Polish Red Data Book of Animals (EN)	rare
CHORDATA/ ACTINOPTERYGII	Rhodeus amarus	European Bitterling			1000		2013		LC ●数 ●開			Annex II Habitats Directive, Polish Red Data Book of Animals (NT)	common
CHORDATA/ ACTINOPTERYGII	Salmo salar	Silver Salmon	<b>V</b>				2013					Annex II Habitats Directive	veryrare
Others													
CHORDATA/ MAMMALIA	Castor fiber	Eurasian Beaver	$ \square$			120	2013		LC om			Annex II, IV, V Habitats Directive	
CHORDATA/ MAMMALIA	Halichoerus grypus	Gray Seal			1000		2013		LC S路			Annex II, IV Habitats Directive, Polish Red Data Book of Animals (EN)	rare
ARTHROPODA/ INSECTA	Leucorrhinia pectoralis	Yellow-spotted Whiteface			1000		2013		LC			Annex II Habitats Directive	
CHORDATA/ MAMMALIA	Lutra lutra	European Otter					2013		NT ●数 ●数	<b>V</b>		Annex II, IV Habitats Directive	common
ARTHROPODA/ INSECTA	Ophiogomphus cecilia	Green Snaketail	<b>V</b>				2013		LC ●数 ●開			Annex II Habitats Directive	
ARTHROPODA/ INSECTA	Osmoderma eremita	Hermit Beetle	<b>2</b> 00				2013		NT ●数 ●脚			Annex II Habitats Directive, Polish Red Data Book of Animals (VU)	
CHORDATA/ MAMMALIA	Phocoena phocoena	Harbor Porpoise	<b>V</b>				2013		LC ●数 ●瞬			Annex II, IV Habitats Directive, Polish Red Data Book of Animals (LC)	veryrare
CHORDATA/ AMPHIBIA	Triturus cristatus	Northern Crested Newt	<b>2</b> 00		1000		2013		LC ●部			Annex II, IV Habitats Directive, Polish Red Data Book of Animals (NT)	veryrare

# 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
1330 Atlantic salt meadows, 1340 Inland salt meadows	<b>2</b>	42 ha; Puccinelio-Spergularietum salinae Junicetum gerardi	Habitat listed on Annex I Habitats Directive
2120 Shifting dunes along the shoreline with Ammophila arenaria ('white dunes')	<b>V</b>	~1060 ha; Elymo-Ammophiletum honckenietosum, Elymo-Ammophiletum arenariae typicum	Habitat listed on Annex I Habitats Directive
2130 Fixed coastal dunes with herbaceous vegetation ('grey dunes')	<b>Ø</b>	~131 ha; Helichryso-Jasonietum litoralis	Habitat listed on Annex I Habitats Directive
2140 Decalcified fixed dunes with Empetrum nigrum	<b>2</b>	~3 ha; Carici arenariae-Empetrum nigri Empetrum nigrum-Vaccinium vitis idaea	Habitat listed on Annex I Habitats Directive
2170 Dunes with Salix repens ssp argentea (Salicion arenariae)	<b>2</b>	<1 ha; Salicion arenariae	Habitat listed on Annex I Habitats Directive
7110 Active raised bogs	Ø	~156ha; Erico-Sphagnetum medii; Community Eriophorum vaginatum – Sphagnum fallax, community with Molinia caerulea	Habitat listed on Annex I Habitats Directive
6510 Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	<b>2</b>	>6ha; Arrhenatherion elatioris	Habitat listed on Annex I Habitats Directive
6410 Molinia meadows on calcareous, peaty or dayey-silt-laden soils (Molinion caeruleae)	<b>2</b>	60ha; Junco-Molinietum	Habitat listed on Annex I Habitats Directive
3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation	Ø	Raunculetum fluitantis	Habitat listed on Annex I Habitats Directive
9110 Luzulo-Fagetum beech forests	V	<130 ha; Deschampsio-Fagetum	Habitat listed on Annex I Habitats Directive
3130 Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoeto-Nanojuncetea	Ø	<146 ha; Myriophyllo-Littorelletum	Habitat listed on Annex I Habitats Directive
9190 Old acidophilous oak woods with Quercus robur on sandyplains	<b>V</b>	>3000 ha; Betulo pendulae-Quercetum roboris, Empetro nigri-Pinetum	Habitat listed on Annex I Habitats Directive
mix2190, 4010, 7140, 7150	Ø	>3ha, Ericetum tetralicis Rynchosporetum albae Carici canescentis-Agrostietum caninae Vaccino ulginosi-Empetretum nigri Myrico-Salicetum auritae Myricetum gale	Habitat listed on Annex I Habitats Directive
3150 Natural eutrophic lakes with Vagnopotamion or Hydrocharition - type Jugetation	V	~7ha; Elodeetum canadensis, Nymphaeion: Nupharo-Nymphetum albae, Polygonetum natantis, Hydrocharitetum morsus ranae,Lemnion gibbae: Spirodelletum polyrhizae, Lemnetum trisulcae	Habitat listed on Annex l Habitats Directive

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
1150 Coastal lagoons	Ø	9608 ha; Phragmitetum australis, Scirpetum lacustris, Glycerietum maxime, Acoretum calami, Equisetum limosae, Sagittario-Sparganietum emersiPhalaridetum arundinaceaeCicuto-Caricetum pseudocyperiThelypteridi-PhragmitetumCaricetum acutiformis Caricetum	Habitat listed on Annex I Habitats Directive
mix7110, 7140, 7150	Ø	279ha; Rynchosporetum albae, Eriophoro angustifolii-Sphagnetum fallax Caricetum lasiocarpae, Carici canescentis-Agrostietum caninae, Calletum palustris Community with Menyanthes trifoliata Community with Comarum palustre	Habitat listed on Annex I Habitats Directive
91E0 Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Ano-Padion, Alnion incanae, Salicion albae)	Ø	122 ha; Fraxino-Alnetum	Habitat listed on Annex I Habitats Directive
91D0 Bog woodland	<b>2</b>	~1600 ha; Vaccinio ulginosi-Betuletum pubescentis Vaccinio ulginosi-Pinetum	Habitat listed on Annex I Habitats Directive
9160 Sub-Atlantic and medio-European oak or oak-hombeam forests of the Carpinion betuli	Ø	~7 ha; Stellario-Carpinetum	Habitat listed on Annex I Habitats Directive
9130 Asperulo-Fagetum beech forests	Ø	<3 ha; Galio odorati-Fagetum	Habitat listed on Annex I Habitats Directive

Optional text box to provide further information

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

#### 4.1 - Ecological character

The present landform of the site has been shaped during the last glaciation (Baltic Glacial Period) and later in Holocene under the impact of coastal processes of the Baltic Sea. Wave and wind activities led to the formation of Gardeńsko-Łebska Spit which closed original marine bays with a sand bar to form large coastal estuaries, the remnants of which are now Łebsko and Gardno lakes. Intensification of dune formation process on the sand spit contributed to development of the highest in Europe (up to 65 m) mobile dune system. Tidal variation at the Baltic coast is almost invisible. The degree of water salinity is low: 3 - 4 \( \). Since both lakes at the site are connected to sea through rivers, fluctuations in lake water level occur frequently during storms when sea water pushes upstream. In the Preboreal period (ca 10.000 years ago), peat forming processes were initiated at the watershed area between lakes, and former lakes were later filled in with organic sediments. As a result vast peatlands of the depth to around 6 m were formed in areas adjacent to existing lakes, what, in turn, led to lake overgrowing and shallowing. The processes are still in place. Peatlands were partially drained in 19th and 20th centuries. Lakes are shallow and eutrophic, their depth not exceeding 6 m (Łebsko lake). The more or less degraded peatlands take about 17% of the Park area. In the Park, after the abandonment of regular agricultural activities about 20 - 25 years ago, most of the ditches become clogged with vegetation debris which reversed the aridization trend and resulted in the rise of groundwater level. The present soils are either gley podsols developed from sands of marine and alluvial origin or peat soils displaying various degree of degradation. Transition-mire soils dominate in the Park. The climate is of maritime character with mild winters, moderately warm summers, a high degree of air moisture and little annual precipitation (annual average 655 mm). The average annual temperature is +7.5°C. Most of the habitats are well developed and preserved on large surfaces, and are of the European Community importance (listed in Annex I to Habitats Directive). The Site supports also numerous other plant species important for maintenance of biodiversity in the continental region. The wetland is a European Important Bird Area. The wetland is also internationally important as a site providing habitats for animal species from Annex II and IV of Habitats Directive.

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

Marine or coastal wetlands

Warrio or occordi Wodarido				
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		2	2000	Representative
E: Sand, shingle or pebble shores		3	175	Rare
F: Estuarine waters		4	5	Representative
J: Coastal brackish / saline lagoons		1	9608	Representative

In	land	wet	lands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> M Permanent rivers/ streams/ creeks		4	19	Representative
Fresh water > Lakes and pools  >> O: Permanent freshwater lakes		3	162	Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		3	130	Representative
Fresh water > Marshes on inorganic soils >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		2	824	Representative
Fresh water > Lakes and pools >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		4		Representative
Fresh water > Marshes on peat soils >> U: Permanent Non- forested peatlands		2	824	Representative
Fresh water > Marshes on inorganic soils >> W: Shrub- dominated wetlands		0		Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		1	1957	Representative
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		1	1957	Representative

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
3: Irrigated land		3	250	Representative
4: Seasonally flooded agricultural land		3		Representative
6: Water storage areas/Reservoirs		4		Representative
7: Excavations		4		Representative
9: Canals and drainage channels or ditches		3	48	Representative

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
urbanised area	200
forests (on dry soils)	1848
oastal dunes	2330
fresh meadows, heaths, gry grasslands	350

# 4.3 - Biological components

# 4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	IUCN Red List	Position in range / endemism / other
A	Garden Angelica		Species protected in Poland
Angelica archangelica	ū		•
Carex arenaria	Sand Sedge		Species protected in Poland
Centaurium erythraea	Common Centaury		Species protected in Poland
Chimaphila umbellata	Common Pipsissewa		Species protected in Poland
Daphne mezereum	Mezereon		Species protected in Poland
Dianthus arenarius	Finland Pink		Species protected in Poland
Digitalis grandiflora	Large Yellow Foxglove		Species protected in Poland
Diphasiastrum complanatum	Complanate Club Moss		Species protected in Poland
Drosera anglica	English sundew		Species protected in Poland
Drosera intermedia	Long-Leaved Sundew		Species protected in Poland
Drosera rotundifolia	Round-Leaved Sundew		Species protected in Poland
Epipactis helleborine	Broad-Leaved Helleborine		Species protected in Poland
Epipactis palustris	Marsh Helleborine		Species protected in Poland
Erica tetralix	Cross-Leaved Heath		Species protected in Poland
Eryngium maritimum	Sea Holly		Species protected in Poland
Glaux maritima	Glaux		Species protected in Poland
Helichrysum arenarium	Everlasting Sandcudweed		Species protected in Poland
Hierochloe odorata	Sweet Grass		Species protected in Poland
Linnaea borealis	Common Sea-Buckthom		Species protected in Poland
Lonicera periclymenum	Common Honeysuckle		Species protected in Poland
Myrica gale	Bog Myrtle		Species protected in Poland
Nymphaea alba	European White Waterlily		Species protected in Poland
Nymphaea candida	Small Water Lily		Polish Red Data Book of Plants (NT), Species protected in Poland
Osmunda regalis	Royal Fem		Species protected in Poland
Platanthera bifolia	Lesser Butterfly Orchid		Species protected in Poland
Rhododendron tomentosum	Marsh Tea, Ledum Crystaltea		Species protected in Poland

Invasive alien plant species

Scientific name	Common name	IUCN Red List	Impacts	Changes at RIS update
Acer negundo	Box Elder		Actually (minor impacts)	unknown
Alnus incana rugosa	Speckled Alder (subsp. Rugosa)		Actually (minor impacts)	unknown
Impatiens parviflora	Small Balsam		Actually (minor impacts)	unknown
Picea sitchensis	Menzies spruce		Actually (minor impacts)	unknown
Prunus serotina	Black Cherry		Actually (major impacts)	unknown
Quercus rubra	Northern Red Oak		Actually (minor impacts)	unknown
Reynoutria japonica	Japanese Knotweed		Actually (minor impacts)	unknown
Reynoutria sachalinensis	Giant Knotweed		Actually (minor impacts)	unknown
Robinia pseudoacacia	False Acacia;Black Locust		Actually (minor impacts)	unknown
Rosa rugosa	rugosa rose		Actually (minor impacts)	unknown
Salix daphnoides			Actually (minor impacts)	unknown
Solidago gigantea	Giant Goldenrod		Actually (minor impacts)	unknown

# 4.3.2 - Animal species

Phylum	Scientific name	Common name	<b>IUCN Red List</b>	Impacts	Changes at RIS update
ARTHROPODA/MAXILLOPODA	Balanus improvisus	BayBarnade		Actually (minor impacts)	No change
CHORDATA/ACTINOPTERYGII	Carassius gibelio	Prussian Carp		Actually (major impacts)	No change
MOLLUSCA/BIVALVIA	Dreissena polymorpha	Zebra Mussel		Actually (minor impacts)	unknown
ARTHROPODA/MALACOSTRACA	Eriocheir sinensis	Chinese Mtten Crab; Shanghai Hairy Crab; Chinese Freshwater Edible Crab		Actually (minor impacts)	No change
ARTHROPODA/MALACOSTRACA	Gammarus tigrinus			Actually (minor impacts)	No change
ANNELIDA/POLYCHAETA	Marenzelleria neglecta	Red Gilled Mud Worm		Actually (minor impacts)	No change
MOLLUSCA/BIVALVIA	Mya arenaria	Long Necked Clam		Actually (minor impacts)	No change
CHORDATA/ACTINOPTERYGII	Neogobius melanostomus	Round Goby, Round Goby, Round Goby		Actually (minor impacts)	No change
CHORDATA/MAMMALIA	Neovison vison	American Mink		Actually (major impacts)	decrease
CHORDATA/MAMMALIA	Nyctereutes procyonoides	Raccoon Dog		Actually (major impacts)	No change
RTHROPODA/MALACOSTRACA	Orconectes limosus	Spinycheek Crayfish		Actually (minor impacts)	No change
RTHROPODA/MALACOSTRACA	Palaemon elegans	Common Prawn		Actually (minor impacts)	unknown

# Optional text box to provide further information

IUCN Red List status (LC): Dreissena polymorpha, Neogobius melanostomus, Neovison vison, Nyctereutes procyonoides, Orconectes limosus

# 4.4 - Physical components

# 4.4.1 - Climate

Climatic region	Subregion
	Dfb: Humid continental
D: Moist Mid-Latitude	(Humid with severe winter,
climate with cold winters	no dry season, warm
	summer)

# 4.4.2 - Geomorphic setting

RIS for Site no. 757, SI	lowiński National Park ,	Poland	
a) Mnimum elevation ab	. 10		
	metres)		
a) Maximum elevation ab	netres)		
	· En	itire river basin	
	Upper par	rt of river basin	
		rt of river basin	
	•	rt of river basin	
	•	one river basin 🗹	
		ot in river basin	
	NC	Coastal ☑	
Diago name the river begin	a or booing. If the citalies in a		e the larger river basin. For a coastal/marine site, please name the sea or ocean.
Łeba river, Łupawa riv		sub-basiii, piease aiso nam	e tile larger fiver basin. For a wastal/marine site, please frame tile sea or ocean.
,			
4.4.3 - Soil			
		Mineral ☑	
	(Update) Changes		Increase O Decrease O Unknown O
	Onlanges	Organic 🗹	Indicase of Bedease of Gillatowii of
	(Update) Changes	•	Increase O Decrease O Unknown O
		ole information	III dease O Declease O Olin lowil O
Are sail types subject to			
condition	change as a result of changir ons (e.g., increased salinity or	acidification)? Yes   No   O	
Please provide further inforr	mation on the soil (optional)		
Soils of the Ramsar si	ite represent mainly pod	lsols, peat-soils, areno	sole and degradated peat-soils.
4.4.4 - Water regime			
Water permanence			
Presence? Usually permanent water	Changes at RIS update		
present			
Source of water that maintain	s character of the site		
Presence?	Predominant water source	Changes at RIS update	
Water inputs from rainfall Water inputs from surface		No change	
water	<b>✓</b>	No change	
Marine water		No change	
Water destination			
Presence?	Changes at RIS update		
Feeds groundwater  Marine	No change No change		
11311110	The entantige		
Stability of water regime  Presence?	Changes at RIS update		
Water levels fluctuating	No change		
(including tidal)	3.		
Please add any comments	on the water regime and its de	eterminants (if relevant). Use	this box to explain sites with complex hydrology.
Due to a very low elev	ation of water table in th	e lakes (Łebsko – only	9 cm a.s.l.) the phenomenon of back flow occurs (pouring of seawater via
			of lakes and fluctuations in their water table (up to 18 cm in the Gardno
lake). Smaller lakes a	re silted and do not have	e a connection to the se	28.
115 - Sodiment regim	٩		
4.4.5 - Sediment regim			
Signific	cant erosion of sediments occ		
	_	_	Increase O Decrease O Unknown O
Significant accretion o	r deposition of sediments occ	urs on the site 🗷	

 $^{\text{(Update)}}$  Changes at RIS update No change oldot Increase O Decrease O Unknown O

Sediment regime unknown  $\Box$ 

Circumneutral (pH: 5.5-7.4 ) 

✓

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

Akaline (pH>7.4)

(Update) Changes at RIS update No change 

● Increase 

O Decrease 

O Unknown 

O

Unknown

Please provide further information on pH (optional):

Water pH of Lebsko and Gardno Lakes varies from 7,0 to 8,0, Dołgie Wielkie Lake 6,4 - 9,7, Dołgie Małe Lake 5,9-7,8.

#### 4.4.7 - Water salinity

Mixohaline (brackish)/Mixosaline (0.5-30 g/l) ☑

 $^{(Update)}$  Changes at RIS update No change  $^{\bigcirc}$  Increase  $^{\bigcirc}$  Decrease  $^{\bigcirc}$  Unknown  $^{\bigcirc}$ 

Unknown

Please provide further information on salinity (optional):

Medium water salnity In Łebsko Lake was 1,285 g/l (CL-) and 0,506 g/l (CL-) in Gardno Lake.

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

Eutrophic 🗹

(Update) Changes at RIS update No change 

● Increase O Decrease O Unknown O

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):

Lakes are shallow and eutrophic, their depth not exceeding 6 m (Łebsko lake).

# 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 O ii) significantly different O 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	Ecosystem service Examples	
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Low
Fresh water	Drinking water for humans and/or livestock	Low
Wetland non-food products	Timber	Low
Wetland non-food products	Fuel wood/fibre	Low
Wetland non-food products	Livestock fodder	Low

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	High
Maintenance of hydrological regimes	Storage and delivery of water as part of water supply systems for agriculture and industry	Low
Erosion protection	Soil, sediment and nutrient retention	Low
Climate regulation	Local climate regulation/buffering of change	Medium
Climate regulation	Regulation of greenhouse gases, temperature, precipitation and other dimactic processes	Medium
Biological control of pests and disease	Support of predators of agricultural pests (e.g., birds feeding on locusts)	Low
Hazard reduction	Flood control, flood storage	Low
Hazard reduction	Coastal shoreline and river bank stabilization and storm protection	Low

#### Cultural Services

Cultural Services				
Ecosystem service Examples II		Importance/Extent/Significance		
Recreation and tourism	Recreational hunting and fishing	Low		
Recreation and tourism	Picnics, outings, touring	High		
Recreation and tourism	Nature observation and nature-based tourism	High		
Spiritual and inspirational	Inspiration	High		
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High		
Spiritual and inspirational	Contemporary cultural significance, including for arts and creative inspiration, and including existence values	Medium		
Spiritual and inspirational Spiritual and religious values		Medium		
Spiritual and inspirational	Aesthetic and sense of place values	Medium		
Scientific and educational	Major scientific study site	High		
Scientific and educational	Long-term monitoring site	High		
Scientific and educational	Educational activities and opportunities	High		
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High		
Scientific and educational	Type location for a taxon	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	Accumulation of organic matter	High
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	Low
Nutrient cycling	Carbon storage/sequestration	Medium
Pollination	Support for pollinators	Medium

#### Other ecosystem service(s) not included above:

#### Recreation and tourism:

The site is visited annually by about 500.000 visitors. In the Słowiński National Park marked trails, viewing towers and educational paths give chance to observe rare species of animals and plants in their natural habitats and get to know the methods of active wildlife conservation carried out by the National Park. An absolute ban on the use of dunes is mandatory. Organized groups can visit the Park with an authorized guide. At some specially selected areas navigation and windsurfing may be practiced on waters of Łebsko and Gardno lakes. It is restricted only to some seasons of the year to minimize wildlife disturbance. Boat and shore angling is also allowed in a part of the Park aquatic bodies, on purchasing a special license.

# Biodiversity:

The Park activity is crucial for survival many rare plants, animals and microorganisms and through genes they contain. Spiritual and inspirational:

The site contributes in maintaining local culture and historical tradition, supports local artists and nature photographers organizing photo and artworks exhibitions.

Within the site: 500000

extensive hay harvesting are carried out. Agricultural activity is carried out by local farmers.

character of the wetland

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site?

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

Description if applicable

Land in the Park is used extensively for agriculture, fishing and forestry. To preserve open ecosystems of the Park, Human activities include bush removal and non-intensive haymaking are undertaken.

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

Description if applicable

The area is used extensively for agricultural purposes. To preserve open park ecosystems, activities such as removing bushes, grazing and

# 4.6 - Ecological processes

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

<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

Рι				

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<b>&gt;</b>	<b>2</b>
Public land (unspecified)	<b>✓</b>	
Provincial/region/state government		✓
Local authority, municipality, (sub)district, etc.		<b>2</b>

#### Private ownership

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

#### Other

Category	Within the Ramsar Site	In the surrounding area
Unspecified mixed ownership	<b>✓</b>	✓

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

The majority is in the State Treasury ownership: in perpetual usufructuary of Słowiński National Park 21 274,6 ha, Marine waters in Słowiński National Park management 11 171,1 ha, other management– 61,0 ha, private owners and other types – 237,3 ha.

# 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:	Słowiński National Park
Provide the name and title of the person or people with responsibility for the wetland:	Marek Sobocki, Director of the Słowiński National Park
Postal address:	ul. Bohaterów Warszawy 1A, 76-214 Smołdzino, Poland
E-mail address:	sekretariat@slowinskipn.pl

# 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
Commercial and industrial areas		unknown impact		No change	✓	unknown
Tourism and recreation areas	unknown impact		<b></b> ✓	No change	✓	No change

# Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage	unknown impact		✓	unknown		No change

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Non specified		unknown impact	✓	unknown	✓	No change

# Biological resource use

biological rootal of the						
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Fishing and harvesting aquatic resources	unknown impact		✓	No change		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	unknown impact		<b>✓</b>	No change	<b>2</b>	No change

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Fire and fire suppression		unknown impact	✓	No change	✓	No change
Dams and water management/use	unknown impact		✓	No change	✓	No change
Vegetation clearance/ land conversion	unknown impact		<b>₽</b>	No change	<b>✓</b>	No change

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	unknown impact		<b>/</b>	No change	<b>/</b>	No change
Problematic native species	unknown impact		<b>/</b>	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	unknown impact		<b>/</b>	unknown	<b>/</b>	unknown

Climate change and severe weather

omnate shange and corose means						
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Storms and flooding	unknown impact		✓	unknown		No change

#### Please describe any other threats (optional):

Within the Ramsar site, the main threatening factors are:

- heavy touristic pressure, especially intensive during summer at the coast and dunes vicinity (about 500.000 tourists visit Słowiński National Park every year) that result in dune trampling, habitat destruction and breeding birds disturbance. To prevent that Słowiński National Park canalize tourists organizing and supporting tourist infrastructure system: parking places, marked trails, view points,
- water level decreasing and eutrophication of lakes caused by polluted river waters from the surrounding area, canalization and river regulation,
- invasive species.

#### 5.2.2 - Legal conservation status

Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
UNESCO Biosphere Reserve	Biosphere Reserve "Słowiński National Park"		whole

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	SCI PLH220023 Ostoja Słowińska		whole
EU Natura 2000	SPAPLB220003 Pobrzeże Słowińskie		partly
EU Natura 2000	SPA PLB990002 Przybrzeżne wody Bałtyku		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National Park	Słowiński National Park		whole

Non-statutory designations

· · · · · · · · · · · · · · · · · · ·			
Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	PL019 Ostoja Słowińska		partly

5	23	- ILICN	Inrotected	areas	categories	(2008)	١
J	ں. ے.	- 1001	DIOLECLEU	aicas	Caleudiles	12000	,

	4.4	Reserve	е
la Strict	Moturo	Docono	н
าด อแาน	mature	176261 VG	

lb Wilderness Area: protected area managed mainly for wilderness protection

Il National Park: protected area managed mainly for ecosystem protection and recreation	ř
III Natural Monument: protected area managed mainly for conservation of specific natural features	כ
IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention	כ
VProtected 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

#### Habitat

Measures	Status
Habitat manipulation/enhancement	Implemented
Hydrology management/restoration	Implemented
Catchment management initiatives/controls	Implemented

#### **Species**

Measures	Status
Threatened/rare species management programmes	Partially implemented
Control of invasive alien plants	Implemented
Control of invasive alien animals	Implemented

#### **Human Activities**

Measures	Status
Fisheries management/regulation	Implemented
Harvest controls/poaching enforcement	Implemented
Regulation/management of recreational activities	Implemented
Research	Implemented
Communication, education, and participation and awareness activities	Implemented

#### Other:

Other specific single species or species group management programmes - partially implemented

# 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 **1** No **2** 

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 oprocesses with another Contracting Party?

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

Museum of Nature of the Slovinski National Park in Smołdzino presents the nature of the most characteristic Park eco-systems: beaches and dunes, lakes and forests. In the museum, special rooms have been prepared for temporary photographic exhibitions. In the didactic room, educational classes, museum lessons, multimedia presentations, photo-slides and nature film shows are conducted for organised groups by the employees of the Park. Additionally, in summer, the theme exhibitions are organised for visitors in Rabka near Leba and Rowy. Słowiński National Park provides ecological training for school youth with the use of 8 educational trails, educating in plant sociology, ecology and culture and ornithology. The interpretation service is provided by the Park staff with the aim to raise awareness on natural phenomena presented against the background of historical and present economic activity of local society.

URL of site-related webpage (if relevant): http://slowinskipn.pl/en/the-museum-of-nature.html

# 5.2.6 - Planning for restoration

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

# 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Plant community	Implemented
Animal community	Implemented
Water regime monitoring	Implemented
Animal species (please specify)	Implemented
Plant species	Implemented
Birds	Implemented
Water quality	Implemented

# 6 - Additional material

# 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

The bibliography is attached in point 6.1.2 vi.

#### 6.1.2 - Additional reports and documents

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

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

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

iv. relevant Article 3.2 reports

v. site management plan

<no file available

vi. other published literature

<1 file(s) uploaded>

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

# Please provide at least one photograph of the site:



Peatbog buried by dune ( Paulina Dzierża, 18-06-2015 )



Bulrush in Gardno Lake ( Słowiński National Park Archive, 21-08-2009 )



Sea coastal waters ( Magdalena Hadwi 07-2017 )



Peatbog ( Słowiński National Park Archive, 13-09-2007 )



Alder forest ( Grzegorz



Gardno Lake ( Grzegorz



Gardno Lake ( Grzegorz



Sea coastal waters ( Grzegorz Jędro, 03-09-2013 )



Peatbog ( Magdalena Hadwiczak, 27-05-2016 )



Peatbog buried by dune ( Magdalena Hadwiczak, 30-04-2016 )



Peatbog ( Magdalena Hadwiczak, 16-08-2017



Wet forest ( Słowiński National Park Archive, 11-05-2008 )



Vaccinio uliginosi-Betuletum pubescentis ( *Slowiński National Park Archive, 19-*09-2007 )



Peatland regenerating after peat extraction ( Słowiński National Park Archive, 13-08-2008 )



Peatland regenerating after peat extraction ( Slowiński National Park Archive, 30-05-2007 )



Salt marshes ( Slowiński National Park Archive, 12-09-2007 )



Sea coastal waters ( Słowiński National Park Archive, 08-01-2009 )



Peatbog Krakulice ( Slowiński National Park Archive, 13-08-2008 )



Peatbog Krakulice ( Słowiński National Park Archive, 13-08-2008 )



Shrubs with bog-myrtle ( Słowiński National Park Archive, 18-06-2009 )



Alder forest buried by dune ( Paulina Dzierża, 16-06 2015 )



bog woodland ( Słowiński National Park Archive, 01-10-2007 )

#### 6.1.4 - Designation letter and related data

# Designation letter

<1 file(s) uploaded>

Date of Designation | 1995-10-24