



Ramsar Information Sheet

Published on 24 January 2019

Update version, previously published on : 1 January 2007

Poland

Biebrzański National Park



Designation date	24 October 1995
Site number	756
Coordinates	53°30'14"N 22°45'31"E
Area	59 233,00 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

Biebrzański National Park (BNP) is located in northeast Poland in Podlasie Voivodeship. The Site covers about half of the Biebrza River Valley, which constitutes one of the largest (more than 200 000 ha) and best preserved tracts of natural swamps and peatlands in Europe. The wetlands developed in a hydrographically unique system of a lowland river valley and display a great variety of mire ecosystems.

The valley comprises a flat lowland, containing about 100 000 ha of peatlands. The Biebrza River Valley in the Park is divided into three hydrologically and physiographically different basins – Upper (Northern), Central and Lower (Southern). The basins are divided by narrow stretches of the valley, around 1 km in length. Upper Basin is the smallest, with a length of 40 km and width ranging from 1,5 to 3 km. Central Basin has a 20 by 40 km trapezoid shape and the Lower Basin is in the shape of a trough 30 km long and 12-15 km wide. The length of the Biebrza river is 156,5 km, with a slope of almost 60 m, which gives an average slope of 0.36‰. It is, however, uneven, and amounts to only 0,04-0,05‰ in the central part.

The channel of Biebrza river, with numerous meanders and oxbow lakes in various stages of succession, retains its natural character. The result of this are extensive annual floods. High water levels on Biebrza occur mainly in springtime during snow melt. Unique hydrographical and relief conditions provide for the preservation of flora and fauna that become extinct elsewhere.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Marek Jobda, Rafał Rzepkowski, Paweł Szałański
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Phone	+48 509-029-647

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)	Biebrzański National Park
Unofficial name (optional)	Biebrzański Park Narodowy, Biebrza

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

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? No

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image
<4 file(s) uploaded>

Former maps 0

Boundaries description

The boundary is the same as the one of the existing Biebrzański National Park, and follows mainly a line of lowest terraces of the Biebrza river together with its tributaries such as Netta, Kopytkówka, Jegrznia, Dybła, Ełk, Klimaszewnica, Wissa, Brzozówka, Sidra, Biebla and Kosódka rivers.

2.2.2 - General location

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

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): 59233

Area, in hectares (ha) as calculated from GIS boundaries 59732.25

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Udvardy's Biogeographical Provinces	10. Boreonemoral
Bailey's Ecoregions	220 Hot Continental Division
WWF Terrestrial Ecoregions	Temperate broadleaf and mixed forest
EU biogeographic regionalization	Continental

3 - Why is the Site important?

3.1 - Ramsar Criteria and their justification

Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided

Despite the seasonal character of river flooding, the site remains permanently waterlogged due to a high groundwater table (lateral feeding) and is regarded, due to a huge accumulation of peats, as a natural retention system of the size comparable with that of the largest artificial water reservoir in Poland. The swampy valley acts as a sink for runoff and subsurface flow and helps to maintain the local hydrological balance. The Park plays an important role as storage reservoirs for flood control in the lower course. Biebrza's peat bogs are a powerful and natural filter for water which flows down to valleys.

Other ecosystem services provided

The area of the Biebrza National Park provides numerous ecosystem services, including these are: 1. provision of supplies (goods and products obtained from ecosystems, e.g. food) - arable crops are food for humans and animals; - drinking water; - biomass which is used as fuel (ecopellet) and as a bedding for cattle farming; - dusting - wild bees use flower meadows as a source of food. 2. Regulatory benefits (benefits derived from the management of ecosystems and natural processes), wetlands contribute to: - regulation / improvement of the climate - by absorbing carbon dioxide and improving the quality of air and the whole environment; - water flow regulation - swamp areas prevent floods; - water purification and pollution control - natural processes in the swamps lead to purification of water and removal of biogens and toxins; - pollen transfer (pollination) - ecosystems of the Biebrza valley are also a source of beekeeping, free of pollutants (pesticides). Many beekeepers have their own apiaries here, and for the time of harvesting, there are also migratory apes. 3. Cultural benefits (non-material benefits derived from ecosystems), including recreation and tourism - in Biebrza National Park tourism is on the sustainable level and does not pose a significant threat to the wetland area, because the area is difficult to access, and tourism is rather seasonal (most tourists choose the spring period - mainly birdwatching, the area is less accessible due to extensive backwaters).

Other reasons

The BNP constitutes a well-preserved example of a lowland river and mire system unique at larger scale of the European continent and not only of the Continental region. The site supports a variety of natural and seminatural hydrogenic habitats including all wetland types typical of the country. Of special significance is the well-preserved two-dimensional (transversal and longitudinal) ecological gradient of water, soil and vegetation features in the Lower Basin. The transversal gradient embraces five zones varying in hydrological conditions, from immersed vegetation in the river (permanent flooding) to emerged vegetation outside the reach of inundation. The longitudinal gradient of the valley embraces several zones of hydrogenic sites shaped by varying properties of the catchment and types of flooding; sites having ecological character of that type are already very rare in the continental region.

Criterion 2 : Rare species and threatened ecological communities

Criterion 3 : Biological diversity

Justification

The site supports the richest in Poland population of most known and largest orchid species - *Cypripedium calceolus*. The orchid is listed as threatened in Europe in Annex II to Habitat Directive. The site is important since it supports the largest in Poland populations of such globally threatened birds as aquatic warbler *Acrocephalus paludicola* (more than 2 000 of singing males – single largest in the region and 10-15% of the world population), spotted eagle *Aquila clanga* (unique national nesting site of the species, 13-15 ranges, 100% of the Polish nesting population), great snipe *Gallinago media* (about 400 males – 60% of the Polish population, 0.2% of European population). The Park is a unique breeding site in Poland of ruff *Philomachus pugnax* (about 50 breeding females) and one of the largest for black grouse *Tetrao tetrix* (about 130 -140 males). All the abovementioned species are listed by Birds Directive Annex I. The BNP is highly important for maintaining their populations in Europe.

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

Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

Start year

Source of data:

Criterion 6 : >1% waterbird population

Criterion 7 : Significant and representative fish

Justification

Because the water is to a great degree natural and relatively clean, the wetland supports a rich ichtiofauna. The fish stock of Biebrza river basin includes 37 indigenous and introduced species of fishes with a rare Ukrainian lamprey *Eudontomyzon mariae*. The fish biomass and population numbers are much higher here than in other lowland rivers in Poland. Several fish species which are considered rare and endangered at European scale find refuge in waters of the BNP. The Site supports numerous populations taxa such as: *Eudontomyzon mariae*, *Misgurnus fossilis*, *Rhodeus sericeus*, *Cobitis taenia* (listed in Annex II to Habitats Directive) thus contributing to the preservation of fish diversity in the region. Among 36 fish species noteworthy is the occurrence of *Barbatula barbatula* and *Phoxinus phoxinus* (species of mountain rivers). Biebrza and its tributaries have been used as fishery by local people and visitors.

Criterion 8 : Fish spawning grounds, etc.

Justification





Lower Basin of Biebrza Valley contains important spawning grounds for many fish species, including pike, roach, ide, rudd, tench and crucian carp.






































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













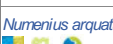

























Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Arnica montana</i>	Mountain Arnica	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC Red List	<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
<i>Betula humilis</i>	Dian Sheng Hua	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC Red List	<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
<i>Botrychium matricariifolium</i>	Chamomile Grape-fern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (CR)	
<i>Carex buxbaumii</i>	Buxbaum's Sedge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC Red List	<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
<i>Carex chordorrhiza</i>	String Sedge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC Red List	<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
<i>Cephalanthera rubra</i>	Red Helleborine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
<i>Cypripedium calceolus</i>	Lady's Slipper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC Red List	<input checked="" type="checkbox"/>	Polish Red Data Book of Plants (VU)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC) Annex 1 of the Bern Convention as a species requiring specific habitat conservation measures
<i>Dactylorhiza incarnata ochroleuca</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
<i>Diphasiastrium tristachyum</i>	Deeproot Clubmoss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	

































Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Dracocephalum ruyschiana</i>	Northern Dragonhead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (CR)	
 <i>Eriophorum gracile</i>	Slender Cottongrass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (CR)	
 <i>Hamatocaulis vernicosus</i>	Slender Green Feather Moss	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC)	
 <i>Iris aphylla</i>	Stool Iris	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
 <i>Liparis loeselii</i>	Fen Orchid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Polish Red Data Book of Plants (VU)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC) Annex 1 of the Bern Convention as a species requiring specific habitat conservation measures
 <i>Ostericum palustre</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC)
 <i>Pedicularis sceptrum-carolinum</i>	Moor-king Lousewort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
 <i>Pulsatilla patens</i>	Eastern Pasque Flower	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC)
 <i>Salix lapponum</i>	Downy Willow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (CR)	
 <i>Salix myrtilloides</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
 <i>Saxifraga hirculus</i>	Marsh Saxifrage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC), Annex 1 of the Bern Convention as a species requiring specific habitat conservation measures
 <i>Succisella inflexa</i>	Southern Succisella	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
 <i>Swertia perennis perennis</i>	Felwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (EN)	
 <i>Thesium ebracteatum</i>	Toadflax	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	Annex 2 of the Habitats Directive (Council Directive 92/43/EEC)
 <i>Trichophorum alpinum</i>	Cotton Deergrass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	Polish Red Data Book of Plants (VU)	
 <i>Viola epipsila</i>	Dwarf Marsh Violet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	Polish Red Data Book of Plants (CR)	

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

Phylum	Scientific name	Common 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								
Birds																		
CHORDATA/ AVES	 <i>Acrocephalus paludicola</i>	Aquatic Warbler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2500	1997-2012	30	VU 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (VU)	pop. size: 1997-2082 SM (singing males), 2003-2726 SM 2009-2556 SM 2012-2594 SM Ca. 30% of the European population (acc. to IUCN)
CHORDATA/ AVES	 <i>Anas acuta</i>	Northern Pintail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10000	2007-2010	1.3	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II, III Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	pop. size: max 10000 ind, important refuge in migratory stage

Phylum	Scientific name	Common 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>Anas penelope</i>	Eurasian Wigeon	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	35000	2007-2010	2.3		<input type="checkbox"/>	<input type="checkbox"/>	Annex II, III Birds Directive (Directive 2009/147/EC)	pop. size: max 35000 ind.(W Siberia & NE Europe); important refuge in migratory stage; source: Polakowski M., Broniszewska M., Krajewski Ł. 2016 The importance of the Biebrza Basin for ducks Anatinae during their spring migration. Omis Polonica 57: 83-106
CHORDATA/AVES	 <i>Anser albifrons</i>	Greater White-fronted Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50000	2007-2010	4	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Birds Directive (Directive 2009/147/EC)	pop. size: max 50000 ind.; important refuge in migratory stage
CHORDATA/AVES	 <i>Aquila clanga</i>	Greater Spotted Eagle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	2012		VU 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (CR)	pop. size: 10 pairs
CHORDATA/AVES	 <i>Aquila pomarina</i>	Lesser Spotted Eagle	<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"/>	13	2012			<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC), CITES	pop. size: 13 pairs
CHORDATA/AVES	 <i>Ardea alba</i>	Great Egret	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	
CHORDATA/AVES	 <i>Asio flammeus</i>	Short-eared Owl	<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"/>		2008-2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (VU), CITES Appendix II	pop. size: 0-7 pairs
CHORDATA/AVES	 <i>Botaurus stellaris</i>	Eurasian Bittern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	65	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC)	pop. size: 65 males
CHORDATA/AVES	 <i>Bubo bubo</i>	Eurasian Eagle-owl	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2008-2012		LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (NT)	pop. size: 18-22 pairs
CHORDATA/AVES	 <i>Caprimulgus europaeus</i>	European Nightjar	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC)	
CHORDATA/AVES	 <i>Chlidonias hybrida</i>	Whiskered Tern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	
CHORDATA/AVES	 <i>Chlidonias niger</i>	Black Tern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1991-1997		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 200-700 pairs
CHORDATA/AVES	 <i>Ciconia ciconia</i>	White Stork	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	
CHORDATA/AVES	 <i>Ciconia nigra</i>	Black Stork	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	2012		LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 10 pairs
CHORDATA/AVES	 <i>Circus aeruginosus</i>	Western Marsh Harrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	
CHORDATA/AVES	 <i>Circus pygargus</i>	Montagu's Harrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22	2012		LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 22-23 pairs
CHORDATA/AVES	 <i>Crex crex</i>	Corn Crake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	280	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 280 males
CHORDATA/AVES	 <i>Cygnus columbianus</i>	Tundra Swan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	300	2007-2010	1.3	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: max 300 ind, important migratory refuge
CHORDATA/AVES	 <i>Dendrocopos medius</i>	Middle Spotted Woodpecker	<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"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	
CHORDATA/AVES	 <i>Ficedula parva</i>	Red-breasted Flycatcher	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC)	
CHORDATA/AVES	 <i>Gallinago gallinago</i>	Common Snipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2500	2006		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: min. 2500 pairs

Phylum	Scientific name	Common 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>Gallinago media</i>	Great Snipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	180	2013		NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (VU)	pop. size: 180 males
CHORDATA/AVES	 <i>Grus grus</i>	Common Crane	<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"/>	250	2012		LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 250 pairs; important breeding and migratory refuge
CHORDATA/AVES	 <i>Haliaeetus albicilla</i>	White-tailed Eagle	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC)	
CHORDATA/AVES	 <i>Ixobrychus minutus</i>	Little Bittern	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	
CHORDATA/AVES	 <i>Limosa limosa</i>	Black-tailed Godwit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	2007-2010		NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: min 200 pairs
CHORDATA/AVES	 <i>Lyrurus tetrix</i>	Eurasian Black Grouse; Black Grouse	<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"/>	51	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	pop. size: 51 males
CHORDATA/AVES	 <i>Numenius arquata</i>	Eurasian Curlew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50	2007-2010		NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (VU)	pop. size: min. 50 pairs
CHORDATA/AVES	 <i>Pernis apivorus</i>	European Honey Buzzard	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (LC), CITES Appendix II	
CHORDATA/AVES	 <i>Philomachus pugnax</i>	Ruff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20000	2007-2010	1.6		<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	pop. size: max 20000 ind. (NE W Siberia/W Africa flyway population), % occurrence- unknown; important refuge in passaging
CHORDATA/AVES	 <i>Picus canus</i>	Grey-headed Woodpecker	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	
CHORDATA/AVES	 <i>Porzana parva</i>	Little Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2012-2013			<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (NT)	pop. size: 10-18 males
CHORDATA/AVES	 <i>Porzana porzana</i>	Spotted Crane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2012-2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds Directive (Directive 2009/147/EC)	pop. size: 300-1900 males
CHORDATA/AVES	 <i>Sterna hirundo</i>	Common Tern	<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"/>	Annex I Birds Directive (Directive 2009/147/EC), Polish Red Data Book of Animals (EN)	
CHORDATA/AVES	 <i>Tringa totanus</i>	Common Redshank	<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"/>	Annex II Habitats Directive	
Fish, Mollusc and Crustacea																		
CHORDATA/ACTINOPTERYGII	 <i>Cobitis taenia</i>	Spiny loach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Habitats Directive	
CHORDATA/CEPHALASPIDOMORPHI	 <i>Eudontomyzon mariae</i>	Ukrainian brook lamprey, Ukrainian brook lamprey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Habitats Directive	
CHORDATA/ACTINOPTERYGII	 <i>Leuciscus aspius</i>	Schied	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)	
CHORDATA/ACTINOPTERYGII	 <i>Misgurnus fossilis</i>	Mud Loach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)	
CHORDATA/ACTINOPTERYGII	 <i>Rhodeus sericeus</i>	Amur Bitterling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)	
CHORDATA/ACTINOPTERYGII	 <i>Sander lucioperca</i>	European pike-perch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		
CHORDATA/ACTINOPTERYGII	 <i>Silurus glanis</i>	Som catfish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		

Phylum	Scientific name	Common 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								
MOLLUSCA/ BIVALVIA	 <i>Unio crassus</i>	Thick Shelled River Mussel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II, IV Habitats Directive		
MOLLUSCA/ GASTROPODA	 <i>Vertigo angustior</i>	Marsh Snail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)		
Others																		
CHORDATA/ MAMMALIA	 <i>Barbastella barbastellus</i>	Western Barbastelle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)		
CHORDATA/ AMPHIBIA	 <i>Bombina orientalis</i>	European Fire-bellied Toad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)		
CHORDATA/ MAMMALIA	 <i>Canis lupus</i>	Wolf	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex IV of the Habitats Directive (Council Directive 92/43/EEC)		
CHORDATA/ MAMMALIA	 <i>Castor fiber</i>	Eurasian Beaver	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II, IV of the Habitats Directive (Council Directive 92/43/EEC)		
ARTHROPODA/ INSECTA	 <i>Coenagrion armatum</i>	Dark Bluet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Polish Red Data Book of Animals (CR)		
ARTHROPODA/ INSECTA	 <i>Coenonympha oedippus</i>	False Ringlet	<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"/>	Annex II, IV Habitats Directive		
ARTHROPODA/ INSECTA	 <i>Hypodryas maturna</i>	Scarce Fritillary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II, IV of the Habitats Directive (Council Directive 92/43/EEC)		
ARTHROPODA/ INSECTA	 <i>Leucorrhinia pectoralis</i>	Yellow-spotted Whiteface	<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"/>	Annex II, IV Habitats Directive		
CHORDATA/ MAMMALIA	 <i>Lutra lutra</i>	European Otter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex II, IV of the Habitats Directive (Council Directive 92/43/EEC)		
ARTHROPODA/ INSECTA	 <i>Lycaena dispar</i>	Large Copper	<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"/>	Annex II, IV Habitats Directive		
CHORDATA/ MAMMALIA	 <i>Lynx lynx</i>	Eurasian Lynx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Habitats Directive, Polish Red Data Book of Animals (NT), CITES Appendix II		
CHORDATA/ MAMMALIA	 <i>Myotis dasycneme</i>	Pond Bat; Pond Myotis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC)		
ARTHROPODA/ INSECTA	 <i>Nehalennia speciosa</i>	Sedgling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1730	2012-2013		NT 	<input type="checkbox"/>	<input type="checkbox"/>	Polish Red Data Book of Animals (EN)		
ARTHROPODA/ INSECTA	 <i>Ophiogomphus cecilia</i>	Green Snaketail	<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"/>	Annex II, IV Habitats Directive		
ARTHROPODA/ INSECTA	 <i>Parnassius mnemosyne</i>	Clouded Apollo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1200	2012			<input type="checkbox"/>	<input type="checkbox"/>	Polish Red Data Book of Animals (VU)		
CHORDATA/ AMPHIBIA	 <i>Triturus cristatus</i>	Northern Crested Newt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the Habitats Directive (Council Directive 92/43/EEC), Polish Red Data Book of Animals (NT)		

1) Percentage of the total biogeographic population at the site

Gastropods - *Vertigo geyeri* & *Vertigo moulinsiana*, crit. 2, 3, Annex II of the Habitats Directive (Council Directive 92/43/EEC).

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
3150 Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation	<input checked="" type="checkbox"/>	area - 248,25 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
3270 Rivers with muddy banks with Chenopodium rubric.p.p.and Bidenton p.p. vegetation	<input checked="" type="checkbox"/>	area - 2,00 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6120 Xeric sand calcareous grasslands	<input checked="" type="checkbox"/>	area - 119,38 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia)	<input checked="" type="checkbox"/>	area - 3,07 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6230 Species-rich Nardus grasslands, on siliceous substrates in mountain areas	<input checked="" type="checkbox"/>	area - 43,97 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6410 Mlinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	<input checked="" type="checkbox"/>	area - 701,12 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6430 Hydrophilous tall herb fringe communities of plains (Convolvuletalia sepium)	<input checked="" type="checkbox"/>	area - 42,00 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
6510 Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	<input checked="" type="checkbox"/>	area - 92,68 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
7110 Active raised bogs	<input checked="" type="checkbox"/>	area - 3 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
7140 Transition mires and quaking bogs	<input checked="" type="checkbox"/>	area - 88,73 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
7230 Alkaline fens	<input checked="" type="checkbox"/>	area - 4208,37 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
9170 Tilio-Carpinetum oak-hornbeam forests	<input checked="" type="checkbox"/>	area - 750,06 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
91D0 Bog woodland	<input checked="" type="checkbox"/>	area - 643,19 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
91E0 Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	<input checked="" type="checkbox"/>	area - 91 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
91I0 Thermophilic oak forest	<input type="checkbox"/>	area - 29,56 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
91T0 Central European lichen Scots pine forests	<input checked="" type="checkbox"/>	area - 29,08 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)
2330 Inland dunes with open Corynephorus and Agrostis grasslands	<input checked="" type="checkbox"/>	area - 41,4 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)

RIS for Site no. 756, Biebrzański National Park, Poland

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
6440 Alluvial meadows of the river valleys (Cnidion dubii)	<input checked="" type="checkbox"/>	area - 47 ha	Annex 1 of the Habitat Directive (Council Directive 92/43/EEC)

Optional text box to provide further information

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

4.1 - Ecological character

It is one of the largest (more than 200 000 ha) and best-preserved tract of natural swamps and peatlands in Europe. The wetlands developed in a hydrographically unique system of a lowland river valley and display a great variety of mire ecosystems. The channel of Biebrza contains a number of meanders and oxbows in various stages of succession, which give it a natural character. This results in extensive annual floods of the surrounding areas and the transversal gradient of plants.

The horizontal and vertical profiles of mires in the valley have largely been preserved as they were shaped throughout alternating dry and wet climatic periods in the Holocene. Unique hydrographical and relief conditions provided for the preservation of flora and fauna that become extinct elsewhere. The vegetation cover of Biebrza is highly diverse and natural, containing many rare species. According to the current data, 65 plant associations have been identified in the Biebrza Valley (including almost every wetland association occurring in Poland): from water plants, reedbeds, sedge mires, emergent sedge and moss associations, swampy alder, birch and conifer forests, forests on mineral soils and psammophilic vegetation to semi-natural meadows. The prevailing type of habitat in the Park are fens, of which the largest and best-preserved complexes can be found in Biebrza River upper and lower basin.

The biggest natural value of the Biebrza valley is a well-developed and preserved perpendicular and longitudinal ecological zonation of vegetation communities as well as species diversity connected with it.

Perpendicular zonation is best developed in the southern basin with the widest flooding (immersive) zone of reedbeds and sedgebeds, wide zone fed with surface- and groundwater with tussock sedge communities, distinct groundwater-fed (emmersive) zone with sedge-moss communities and best preserved edge zone with alder forests. Perpendicular ecological zonation in the valley is changing with the rivercourse going upwards. Immerse zone and edge alder zone and declining, while emmersive zone is widening and a bog zone is developing. It is a longitudinal ecological zonation, which is visible in division of the valley into three different basins: upper (northern), middle (central) and lower (southern). The occurrence of these type of ecological systems are extremely rare in the continental region.

High diversity of habitats is one of the reason for richness of the fauna. The Biebrzański National Park provides excellent shelter for many species, including such rare taxa as *Catocala pacta*, European fire-bellied toad, otter, musk rat, wolf and elk, as well as for numerous water birds that use the wetland as an important feeding, resting, moulting and breeding place during migrations.

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

Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> Mt: Permanent rivers/ streams/ creeks		3		Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		0		Representative
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		1	36000	Representative
Fresh water > Marshes on peat soils >> Xp: Permanent Forested peatlands		2	9600	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
2: Ponds		0		
4: Seasonally flooded agricultural land		0		Representative
9: Canals and drainage channels or ditches		0		Representative

Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Non-forested habitats on mineral soils	2640
Forest on mineral soils	4000

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
<i>Carex liliacea</i>			species protected in Poland
<i>Polemonium caeruleum himalayenum</i>	Jacob's Ladder		Protected in Poland

Invasive alien plant species

Scientific name	Common name	IUCN Red List	Impacts	Changes at RIS update
<i>Acer negundo</i>	Ashleaf Maple		Actually (major impacts)	unknown
<i>Amaranthus retroflexus</i>	Common Amaranth		Actually (minor impacts)	unknown
<i>Bidens frondosa</i>	Devil's beggar-ticks		Actually (major impacts)	unknown
<i>Bromus carinatus</i>	California Brome		Actually (minor impacts)	unknown
<i>Bunias orientalis</i>	Warty Cabbage		Actually (minor impacts)	unknown
<i>Cornus sericea</i>	Red Osier Dogwood		Actually (major impacts)	increase
<i>Echinochloa crus-galli</i>	Cockspar		Actually (minor impacts)	unknown
<i>Echinocystis lobata</i>	Prickly Cucumber		Actually (major impacts)	increase
<i>Elodea canadensis</i>	Canadian Waterweed		Actually (minor impacts)	unknown
<i>Erigeron annuus</i>	White Fleabane		Actually (major impacts)	unknown
<i>Erigeron canadensis</i>	Canadian Fleabane		Actually (major impacts)	unknown
<i>Galinsoga parviflora</i>	Gallant Soldier		Actually (major impacts)	unknown
<i>Galinsoga quadriradiata</i>	Soldier species		Actually (major impacts)	unknown
<i>Helianthus tuberosus</i>	Jerusalem Artichoke		Actually (major impacts)	unknown
<i>Heracleum mantegazzianum</i>	Giant Hogweed		Actually (major impacts)	unknown
<i>Impatiens glandulifera</i>	Himalayan Balsam		Potentially	unknown
<i>Impatiens parviflora</i>	Small Balsam		Actually (major impacts)	increase
<i>Juglans regia</i>	English walnut		Actually (minor impacts)	unknown
<i>Lupinus polyphyllus</i>	Washington Lupine		Potentially	unknown
<i>Lycium barbarum</i>	Duke of Argyll's Tea-tree		Actually (minor impacts)	unknown
<i>Parthenocissus vitacea</i>	False Virginia-creeper		Potentially	unknown
<i>Prunus serotina</i>	Rum Cherry		Actually (major impacts)	unknown
<i>Quercus rubra</i>	Red Oak		Actually (major impacts)	unknown
<i>Reynoutria sachalinensis</i>			No impacts	unknown
<i>Robinia pseudacacia</i>	False Acacia;Black Locust		Actually (major impacts)	unknown
<i>Rosa rugosa</i>	Japanese Rose		Actually (minor impacts)	unknown
<i>Rudbeckia laciniata</i>	Cone flower		Actually (minor impacts)	unknown
<i>Rumex confertus</i>	Russian dock		Actually (minor impacts)	unknown
<i>Setaria viridis</i>	Green Bristle-grass		Actually (minor impacts)	unknown
<i>Solidago gigantea</i>	November Goldenrod		Actually (minor impacts)	unknown
<i>Veronica persica</i>	Common Field Speedwell		Potentially	unknown

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	IUCN Red List	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
CHORDATA/AVES	<i>Chlidonias leucopterus</i>	White-winged Tern					
CHORDATA/AVES	<i>Dendrocopos leucotos</i>	White-backed Woodpecker					
CHORDATA/AVES	<i>Luscinia svecica</i>	Bluethroat					
CHORDATA/AVES	<i>Motacilla citreola</i>	Citrine Wagtail		50	2012		Protected in Poland, pop. size: 50 pairs

Invasive alien animal species

Phylum	Scientific name	Common name	IUCN Red List	Impacts	Changes at RIS update
ARTHROPODAINSECTA	<i>Cameraria ohridella</i>	Horse Chestnut Leafminer		Actually (minor impacts)	unknown
MOLLUSCABIVALVIA	<i>Dreissena polymorpha</i>	Zebra Mussel		Potentially	unknown
ARTHROPODAINSECTA	<i>Harmonia axyridis</i>	Harlequin Ladybird		Potentially	unknown
ARTHROPODAINSECTA	<i>Leptinotarsa decemlineata</i>	Colorado Potato Beetle		Actually (minor impacts)	unknown
CHORDATA/MAMMALIA	<i>Neovison vison</i>	American Mink		Actually (major impacts)	unknown
ARTHROPODA/MALACOSTRACA	<i>Orconectes limosus</i>	spinycheek crayfish		Actually (major impacts)	unknown
ARTHROPODAINSECTA	<i>Ostrinia nubilalis</i>	European Corn Borer		Actually (minor impacts)	unknown
ARTHROPODAINSECTA	<i>Sitophilus granarius</i>	Grain Weevil		Actually (minor impacts)	unknown
ARTHROPODAINSECTA	<i>Sitophilus zeae-mais</i>	maize weevil		Actually (minor impacts)	unknown

Optional text box to provide further information

Insect - lycaena helle, Violet Copper

4.4 - Physical components

4.4.1 - Climate

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

The increasing frequency of extreme events, such as summer torrential rains and hydrological droughts.

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.

Wisla river basin

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)

General soils types of the catchment include hydrogenic soils (53 441 ha) such as peats, silts, and muds, in addition to mineral (4 891 ha) sandy and sandy-clayey soils (podsol and rusty podsol soils) on mineral elevations within the valley and at its margins. Construction of drainage channels conducted in the second half of the 19th century in the Central Basin area resulted in overdrying of peat layers in this part of Biebrza Valley and lead to mineralization of peat soils. The last significant melioration projects were developed in the 1960s and still play a large part in draining the swamps. Lately, several cases of illegal earthworks have been recorded, causing a diminishment of the Park's area water retention ability, as well as endangered species and habitats dependent on water.

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 groundwater	<input type="checkbox"/>	No change
Water inputs from surface water	<input checked="" type="checkbox"/>	No change
Water inputs from rainfall	<input type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
Feeds groundwater	No change
To downstream catchment	No change
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.

Water level in the river depends on the season with maximum during spring flooding and minimum in late summer - early autumn. The average decline of river bed is 0.36 ‰ and the average flow in the river (at the Burzyn gauge) is 27.5 m³/s.

Despite the seasonal character of river floods, the site remains permanently waterlogged due to a high groundwater table (lateral feeding) and is regarded, due to a huge accumulation of peats, as a natural system having the highest retention capacity at country scale – comparable with that of the largest artificial water reservoir in Poland. The mires of Biebrza Valley are fed by lateral inflow of groundwater and seeping waters from the edges of the valley, especially in the upper and lower basins.

In the 19th century, a large scale hydrotechnical works were conducted in the valley, among other things, a 100 km long Augustów Canal (8 km within the site) was built to enable water communication between the Biebrza river system and the Nemunas river further north-east. This resulted in changes in both the water network and groundwater recharge.

At present the river system within the Park is left unmanaged and the hydrological regime is close to natural. Since 2011, the hydrographic network in the middle basin is being restored to the state close to primeval (LIFE project).

4.4.5 - Sediment regime

Sediment regime is highly variable, either seasonally or inter-annually

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

Sediment regime unknown

4.4.6 - Water pH

Alkaline (pH>7.4)

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

Unknown

Please provide further information on pH (optional):

pH levels applicable to surface flowing water.

4.4.7 - Water salinity

Fresh (<0.5 g/l)

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

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

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

Unknown

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

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the i) broadly similar 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
Fresh water	Drinking water for humans and/or livestock	Medium
Fresh water	Water for irrigated agriculture	Low
Wetland non-food products	Timber	Medium
Wetland non-food products	Fuel wood/fibre	Medium
Wetland non-food products	Peat	Low
Wetland non-food products	Livestock fodder	Low
Wetland non-food products	Reeds and fibre	High
Wetland non-food products	Other	High
Genetic materials	Medicinal products	Medium

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	High
Pollution control and detoxification	Water purification/waste treatment or dilution	High
Climate regulation	Local climate regulation/buffering of change	Medium
Climate regulation	Regulation of greenhouse gases, temperature, precipitation and other climatic processes	High
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	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Water sports and activities	Medium
Recreation and tourism	Picnics, outings, touring	Medium
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Spiritual and religious values	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Medium
Spiritual and inspirational	Inspiration	Low
Spiritual and inspirational	Contemporary cultural significance, including for arts and creative inspiration, and including existence values	Low
Scientific and educational	Major scientific study site	Medium
Scientific and educational	Educational activities and opportunities	High
Scientific and educational	Long-term monitoring site	Low
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High

Supporting Services

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

Other ecosystem service(s) not included above:

It has been evaluated that the BNP receives annually about 100 000 visitors. Based on the numbers of sold entrance tickets, the Park was visited from land and water by at least 33 thousand of people. 22 thousand of visitors took advantage of the tourist information point in Osowiec-Twierdza, among of them approximately 20 thousand was Polish. The angling licenses were bought by 6,5 thousand of people. Tourists information and service is provided by the Education and Information Sharing Department at the BNP Management. Within the Park and its vicinity, several trails were routed and marked: 7 for canoeing, 10 for cycling, 4 running paths, 18 tourist trails as well as 17 educational paths equipped with viewing towers, platforms, footbridges etc., of the total length of 609 km. There is also an underwater trail – part of Biebrza river is made available for diving. The local population gets some additional income from gathering of herbs and fruits. A cane is obtained in the Park too. Flower meadows provide lots of nourishment for breeding wild animals, while insects such as bees, beetles, butterflies etc. pollinate crops.

Within the site: 100000

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

Description if applicable

Traditionally, swampy and wet meadows in the park were used agriculturally, for mowing and grazing. In view of systematic transformations in the 90's of 20th century, many parcels were abandoned. Not mowed or grazed meadows and peatlands began to heavily overgrow with shrubs and trees. Until recently non-forest communities were threatened with plant succession. Species of mires and wet meadows could become especially threatened in view of abandoning traditional land use practices in the valley. The Board of the Park through the programme of long-term landholding for nature is willing to support or stimulate the extensive use of meadows and peatlands. Extensive use of meadows also takes place today. In Biebrza National Park active protection is carried out on a large scale through extensive agricultural use - in most cases it is a single mowing yearly or once every few years, however, in the case of sensitive soil, only manual mowing is allowed. In 2017, nearly 2,000 ha of land being on the board of Biebrza National Park were mown. In addition, the land is used, most often in an extensive way, because the natural conditions do not allow me to intensify meadows on private land. They are very often reported by farmers to agri-environmental-climate programs, and thus they are used extensively in accordance with the guidelines for a given program, adapted to the species of birds or plant communities present in a given place. The Biebrzański National Park is one of the largest employers in the area. In addition, firms which perform services (mowing, cutting out bushes, biomonitoring) for the Park generate more employment.

- 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

4.6 - Ecological processes

<no data available>

5 - How is the Site managed? (Conservation and management)

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Cooperative/collective (e.g., farmers cooperative)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Foundation/non-governmental organization/trust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

5.1.2 - Management authority

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

Biebrzański National Park

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

Andrzej Grygoruk, Director of the Biebrzański National Park

Postal address:

Oswiec-Twierdza 8, 19-110 Goniądz, Poland

E-mail address:

biebrza@biebrza.org.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
Tourism and recreation areas	unknown impact		<input checked="" type="checkbox"/>	increase	<input type="checkbox"/>	No change
Unspecified development		unknown impact	<input checked="" type="checkbox"/>	increase	<input type="checkbox"/>	No change

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage	unknown impact		<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Water abstraction		unknown impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	No change
Dredging		unknown impact	<input type="checkbox"/>	increase	<input checked="" type="checkbox"/>	increase
Canalisation and river regulation	unknown impact		<input checked="" type="checkbox"/>	increase	<input checked="" type="checkbox"/>	increase

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Annual and perennial non-timber crops	unknown impact		<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	increase
Livestock farming and ranching	unknown impact		<input type="checkbox"/>	decrease	<input checked="" type="checkbox"/>	increase

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Roads and railroads	unknown impact		<input type="checkbox"/>	increase	<input checked="" type="checkbox"/>	unknown
Shipping lanes		unknown impact	<input checked="" type="checkbox"/>	unknown	<input type="checkbox"/>	No change

Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Hunting and collecting terrestrial animals		unknown impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Gathering terrestrial plants		unknown 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	unknown impact		<input checked="" type="checkbox"/>	increase	<input type="checkbox"/>	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		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Dams and water management/use	unknown impact		<input checked="" type="checkbox"/>	increase	<input checked="" type="checkbox"/>	increase
Vegetation clearance/land conversion	unknown impact	unknown impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

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		<input checked="" type="checkbox"/>	increase	<input checked="" type="checkbox"/>	unknown
Problematic native species	unknown impact		<input checked="" type="checkbox"/>	decrease	<input type="checkbox"/>	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Household sewage, urban waste water		unknown impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Agricultural and forestry effluents	unknown impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Garbage and solid waste	unknown impact		<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

Climate change and severe weather

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Droughts		unknown impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown
Storms and flooding		unknown impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	unknown

5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Dolina Biebrzy PLH200008		whole
EU Natura 2000	Ostoja Biebrzańska PLB200006		whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National Park	Biebrzański National Park	www.biebrza.org.pl	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Dolina Biebrzy PL044		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

Habitat

Measures	Status
Improvement of water quality	Partially implemented
Habitat manipulation/enhancement	Partially implemented
Hydrology management/restoration	Partially implemented
Land conversion controls	Partially implemented

Species

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

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Implemented
Livestock management/exclusion (excluding fisheries)	Partially implemented
Fisheries management/regulation	Partially implemented
Harvest controls/poaching enforcement	Implemented
Regulation/management of recreational activities	Proposed
Research	Implemented

5.2.5 - Management planning

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

Has a management effectiveness assessment been undertaken for the site? 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:

Yes - there are educational facilities associated with national park

URL of site-related webpage (if relevant): www.biebrza.org.pl

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

<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

<1 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Biebrza River Valley (*Monika Szawczyk, 25-09-2007*)



alder forest (*Paulina Dzierża, 17-07-2009*)



Ławki Marsh (*Paulina Dzierża, 17-07-2009*)



Ławki Marsh (*Paulina Dzierża, 17-07-2009*)



Łoje-Awissa (*Paulina Dzierża, 16-09-2009*)



oxbow (*Paulina Dzierża, 14-09-2009*)



Ławki Marsh (*Paulina Dzierża, 16-07-2009*)



Ławki Marsh (*Wetland Conservation Center/Marek Ostrowski, 06-1997*)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation