



# Ramsar Information Sheet

Published on 13 December 2016

## Ukraine

### Syra Pogonia Bog



Designation date	24 December 2013
Site number	2274
Coordinates	51°31'07"N 27°13'12"E
Area	9 926,00 ha

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

The site of "Syra Pogonia Bog" is a well protected part of Ukraine's largest mire area, located on the north-eastern part of Rivne region between the rivers Lva and Stvyga in valley, entitled Stir-Slovechno. The site includes a large and well protected marsh, which is mainly fed by rain and snow, in the Polissia region as one of the most waterlogged parts of Europe, within the Continental biogeographical region of Europe. The site is presented as a set of elevated hills and watered places that are unique for Ukraine and Central Europe and characteristic for northern (taiga) wetlands. The hills cover mostly oligotrophic pine-cottongrass-sphagnum vegetation communities (with *Eriophorum vaginatum*, *Sphagnum fuscum*, *Sph. magellanicum*), while in watered depressions of treeless places sedge-sphagnum *Cariceto (rostratae et limosae)-Sphagneta (cuspidati)* and pod-grass-sphagnum (*Scheuchzerieto (palustris)-Sphagneta*) groupings dominate. The site's wetlands provides habitat for over 600 native plant species and 675 animal species, including 101 protected species (of different levels). One globally threatened bird species breeding on the site territory, like *Aquila clanga*. The site serves an important breeding habitat for many water bird species, especially *Grus grus*, *Numenius arquata*, *Circaetus gallicus*, *Tetrao urogallus*, *Tringa glareola* and others. The site is a part of the Rivnenskyi Nature Reserve and one of the most protected peatlands in the Ukrainian Polissya region. It is located by 10 km south from the Ramsar site 1402 "Perebrody Peatlands". The part of the site belongs to as the IBA (Important Bird and Biodiversity Area) of 12718 hectares, which were identified by the BirdLife International.

## 2 - Data & location

### 2.1 - Formal data

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

##### Compiler 1

Name	Rostyslav Zhuravchak
Institution/agency	Rivnenskyi Nature Reserve
Postal address	Rozvylka, the village of Chudel, Samianskyi raion, Rivnenska oblast, 34542, Ukraine
E-mail	rivnepz@ukr.net
Phone	+380365534763
Fax	+380365534763

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

From year	2000
To year	2016

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Syra Pogonia Bog
Unofficial name (optional)	Болотний масив Сира Погоня (Bolotnyi masyv Syra Pogonia)

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

#### Boundaries description (optional)

Boundaries of the Ramsar Site lines correspond to entire territory one of territorial department of Rivnensky Nature Reserve (Bilske and Grabunske Protection Departments).

### 2.2.2 - General location

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

### 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):	9926
Area, in hectares (ha) as calculated from GIS boundaries	9926.01

### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Continental

[Other biogeographic regionalisation scheme](#)

According to geo-botanical zoning of Ukraine, the site is located in the Poliska sub-province (Volynske Polissya), East European province, European broadleaf forest region. River basin affiliation: basin of the L'va River, which flows into the Prypiat River in Belarus. The Prypiat River, in its turn, flows into the Kyivske Reservoir at the middle reaches of the Dnipro River.  
National Scheme of biogeographic regionalisation. National Atlas of Ukraine. – Kyiv: State scientific enterprise 'Kartographia', 2007. – 440 p. [in Ukrainian].

### 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: This site is important for flood protection and hydrological regime control, retention of fresh water and natural processes of water purification.

Other ecosystem services provided: The site supports typical and rare species of the boreal biogeographic region, maintain the regional climate, accumulates Carbon and fixed radioactive elements after Chernobyl nuclear catastrophe.

Other reasons: The site Syra Pogonia Bog includes a large and well protected marsh (almost no visible drainage measures) of the Polissia region of Ukraine as one of the most waterlogged parts of Europe, within the Continental biogeographical region of Europe. The bogs are presented as a set of elevated hills and watered places that are unique for Ukraine and Central Europe and are typical for taiga wetlands.






- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification: The site is very important for the protection of typical and rare Polissyan (forest and bog types) vegetation, flora and fauna. The site's wetland provides habitats for over 600 native plant species and over 100 identified lichens, mosses and fungi species and 675 animal species (4 species of fishes, 7 amphibians, 7 reptiles, 109 birds and 24 mammals, 457 species of insects). On the site area there are the only known in Ukrainian West Polissia habitat places (or occurrence) for the rare boreal species of butterflies, like *Oeneis jutta*, of dragonflies, like *Somatochlora arctica*, and moth *Syngropha microgamma*. Habitat of all those species is situated in the southern part of the Site, on the oligotrophic sphagnum marsh "Kozyi Brid" with sparse depressed forests of pine and vegetation of the association *Ledo-Sphagnetum magellanici* (class *Oxycocco-Sphagnetea*) with significant cover of *Ledum palustre*, surrounded by pine forest. Taking into account a number of stenotopic species of insects (*Colias palaeno*, *Vacciniina optilete*, *Procllossiana eunomia*, *Tetrix undulata*, *T. bipunctata*), this site is well recognized as a relict boreal refuge for entomofauna.

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



















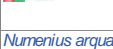

















#### 3.2 - Plant species whose presence relates to the international importance of the site

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Allium ursinum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - NE	
<i>Astragalus arenarius</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Carex chardorrhiza</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Chamaedaphne calyculata</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	is one of the five known localities in the Ukrainian Polissia

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Dactylorhiza fuchsii</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - NE	
<i>Dactylorhiza incarnata</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Drosera anglica</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Drosera intermedia</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Epipactis atrorubens</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Epipactis helleborine</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Epipactis palustris</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Juncus bulbosus</i> 	bulbous rush	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Lycopodiella inundata</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Lycopodium annotinum</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Neottia nidus-avis</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine(2009) - NE	
<i>Platanthera bifolia</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - NE	
<i>Salix lapponum</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Salix myrtilloides</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Scheuchzeria palustris</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	dominance in vegetation types
<i>Utricularia intermedia</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Utricularia minor</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
<i>Vaccinium oxycoccos</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	is glacial relict

The wetland site is important for conservation of plant species that are close to their southern distribution areal range, like *Carex chordorrhiza*, *Carex limosa*, *Drosera intermedia*, *Juncus bulbosus*, *Rhynchospora alba*, *Salix lapponum*, *Salix myrtilloides*, *Scheuchzeria palustris*, *Utricularia minor*.

### 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 <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
<b>Birds</b>																		
CHORDATA/ AVES	 <i>Aquila clanga</i>	Greater Spotted Eagle	<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"/>	2	2015		VU 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IUCN Europe – EN; listed in the Red Data Book of Ukraine (2009) - NT	This species nests within the site.
CHORDATA/ AVES	 <i>Ciconia nigra</i>	Black Stork	<input 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"/>	listed in the Red Data Book of Ukraine (2009) - NT	
CHORDATA/ AVES	 <i>Circaetus gallicus</i>	Short-toed Snake Eagle	<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"/>	2	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - NT	This species nests within the site.
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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - VU	
CHORDATA/ AVES	 <i>Columba oenas</i>	Stock Dove	<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	
CHORDATA/ AVES	 <i>Coracias garrulus</i>	European Roller	<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"/>	8	2014-2015		LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - EN	This species nests within the site.
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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - EN	
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"/>	60	2013-2015		LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - NT	This species nests within the site.
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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	IUCN Europe – VU	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40	2015		LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - EN	
CHORDATA/ AVES	 <i>Numenius arquata</i>	Eurasian Curlew	<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"/>	18	2014		NT 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - EN	This species nests within the site.
CHORDATA/ AVES	 <i>Picoides tridactylus</i>	Eurasian Three-toed Woodpecker; Three-toed Woodpecker	<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	
CHORDATA/ AVES	 <i>Picus viridis</i>	European Green Woodpecker	<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	
CHORDATA/ AVES	 <i>Strix nebulosa</i>	Great Gray Owl; Great Grey 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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - rare	
CHORDATA/ AVES	 <i>Tetrao urogallus</i>	Western Capercaillie	<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"/>	5	2000-2008		LC 	<input type="checkbox"/>	<input type="checkbox"/>	listed in the Red Data Book of Ukraine (2009) - EN	This species nests within the site.
CHORDATA/ AVES	 <i>Tetrastes bonasia</i>	Hazel Grouse	<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	
CHORDATA/ AVES	 <i>Vanellus vanellus</i>	Northern Lapwing	<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"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	IUCN Europe – VU	
<b>Others</b>																		
ARTHROPODA / INSECTA	 <i>Calopteryx virgo</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	
ARTHROPODA / INSECTA	 <i>Catoxypa fraxini</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU	

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								
ARTHROPODA / INSECTA	<i>Coenonympha oedippus</i>		<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"/>	IUCN Europe – EN		
ARTHROPODA / INSECTA	<i>Colias palaeno</i>	Moorland Clouded Yellow; Palaeno Sulphur; Arctic Sulphur	<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"/>	listed in the Red Data Book of Ukraine (2009) - EN		
CHORDATA / REPTILIA	<i>Coronella austriaca</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU		
CHORDATA / AMPHIBIA	<i>Epidalea calamita</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU		
ARTHROPODA / INSECTA	<i>Papilio machaon</i>	Common Yellow Swallowtail; Swallowtail; Old World Swallowtail; Artemisia Swallowtail	<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"/>	listed in the Red Data Book of Ukraine (2009) - VU		
ARTHROPODA / INSECTA	<i>Pericallia matronula</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU		
ARTHROPODA / INSECTA	<i>Sympetrum pedemontanum</i>		<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"/>	listed in the Red Data Book of Ukraine (2009) - VU		

1) Percentage of the total biogeographic population at the site

Open oligotrophic marshes and habitats of raw oligotrophic pine forests are the habitats of rare species of Lepidoptera of boreal group – *Colias palaeno*, *Vacciniina optilete*, *Oeneis jutta*, *Syngrapha microgamma* and subboreal species *Coenonympha oedippus*. In humid areas with the growth of birch (*Betula* sp.) occur *Upis ceramoides*. On the site area, on oligotrophic sphagnum marsh of “Koziy Brid”, there are only known the localities of rare boreal species of butterflies – *Oeneis jutta*, rare species of dragonflies – *Somatochlora arctica*, and only one known locality in Ukraine of moth *Syngrapha microgamma*. On the forest edges of marsh pine forests in the surroundings of meso- and oligotrophic sphagnum marshes of the site there are occur very numerous Orthoptera species *Tetrix undulata* and glacial taiga-marsh relict *T. bipunctata*. The site is an important place for breeding and feeding of *Ciconia nigra* (2 breeding pairs), *Lyrurus tetrix* (near 40 individuals), *Grus grus* (near 30 breeding pairs), *Tringa glareola*, *Numenius arquata* (5-9 pairs), *Motacilla citreola*, *Acrocephalus paludicola* (2-5 males). *Coronella austriaca*, *Emys orbicularis*, *Alces alces* occur within the marsh habitats as well. The fragments of dry oligotrophic pine forests of association *Pinetum (sylvestris)-lichenoso-muscosum* is one of the fundamental types of habitats for rare species of saproxylic beetles – *Ergates faber*, *Buprestis octoguttata*, *Cucujus haematodes* and *C. cinnabarinus*, *Gnorimus variabilis* and butterflies – *Hipparchia statilinus* and *Pericallia matronula*. Here also occurs the imago of a rare species of scarab beetles *Potosia aeruginosa*, whose number decreases in Europe due to reduction of the areas of old-growth broadleaved forests. The wet forests with moss cover are the habitats for relict species of Mecoptera (*Boreus westwoodi*). The *Pernis apivorus* (1-2 pairs), *Buteo buteo* (5-9 pairs), *Columba oenas* (near 10 pairs), *Strix nebulosa* (4-7 pairs), *Ficedula parva*, *Circaetus gallicus* (1 known pair) breed in the forest areas; the carnivorous animals – *Mustela erminea*, *Lynx lynx*, *Mustela putorius*, dendrophilous species of bats, in particular *Pipistrellus nathusii* and others not rare found here. For the site territory known one breeding place of *Aquila clanga*, globally threatened species, which breeds here at least during the last three years.

### 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
Sedge-Sphagnum communities	<input checked="" type="checkbox"/>	Transition mires formed by medium-sized or small sedges, associated with sphagnum mosses. Plant communities belong to the alliance of <i>Caricion lasiocarpae</i> Vanden Berghen in Lebrun et al. 1949	Part of Natura 2000 habitat type: 7140 Transition mires and quaking bogs
Sphagneta ( <i>fusci</i> , <i>magellanic</i> <i>depressipinetosa</i> ( <i>sylvestris</i> )) communities	<input checked="" type="checkbox"/>	Bogs, poor in mineral nutrients, with perennial vegetation dominated by colorful Sphagnum hummocks allowing for the growth of the bog. Plant communities belong to the alliance of <i>Sphagnion medii</i> Kästner et Flößner 1933	Part of Natura 2000 habitat type: 7110* Active raised bogs. Listed in the Green Data Book of Ukraine (2009). Characteristic species - <i>Oxycoccus microcarpus</i> is under legal protection (Red Data Book of Ukraine, 2009)
Sparganieta <i>minimi</i> communities	<input checked="" type="checkbox"/>	Shallow pools on peat with brown water rich in humic acids. Plant communities belong to the association <i>Sparganietum minimi</i> Schaaf 1925	Part of Natura 2000 habitat type: 3160 Natural dystrophic lakes and ponds. Listed in the Green Data Book of Ukraine (2009). Characteristic species: <i>Sparganium minimum</i> , <i>Juncus bulbosus</i> , <i>Utricularia intermedia</i> are under legal protection
Utricularieta <i>minoris</i> communities	<input checked="" type="checkbox"/>	Acidic pools and hollows on peat. Plant communities belong to the association <i>Sphagno-Utricularietum minoris</i> (Fijałkowski 1960) Pietsch 1975	Part of Natura 2000 habitat type: 3160 Natural dystrophic lakes and ponds. Listed in the Green Data Book of Ukraine (2009). Characteristic species - <i>Utricularia minor</i> is under legal protection (Red Data Book of Ukraine, 2009)
Sedge-Scheuchzeria-Sphagnum communities	<input checked="" type="checkbox"/>	Floating carpets and quaking mires in mesotrophic conditions formed by <i>Carex limosa</i> , <i>Rhynchospora alba</i> and <i>Scheuchzeria palustris</i> , associated with sphagnum or brown mosses. Plant communities belong to the alliance of <i>Rhynchosporion albae</i> Koch 1926	Part of Natura 2000 habitat type: 7150 Depressions on peat substrates of the <i>Rhynchosporion</i> . Listed in the Green Data Book of Ukraine (2009). Characteristic species - <i>Scheuchzeria palustris</i> is under legal protection (Red Data Book of Ukraine, 2009)

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

### 4.1 - Ecological character

The site area is dominated by oligotrophic marsh vegetation communities. The site represents a unique for Ukraine and Central Europe hilly-watered habitat complex. Mesotrophic habitats occur only in the peripheral part of the wetland. The majority of the area is occupied by cotton grass-sphagnum habitat (with *Eriophorum vaginatum* and *Sphagnum magellanicum*, *S. fuscum*) with suppressed pine. Under the pine layer the *Ledum palustre*, *Oxycoccus palustris*, *Vaccinium uliginosum* dominate in marsh habitat types together with *Eriophorum vaginatum*. The hills, which occupy these groups, are oval, elongated, sometimes like ridges. Flooded elongated fragments are entirely covered by *Sphagnum cuspidatum*. The grass cover of these habitats is attenuated (20-30%), with *Scheuchzeria palustris* and some sedges (*Carex limosa*, *C. rostrata*, sometimes *C. cinerea*). The large area is occupied by pine forests, there are forest areas of black alder *Alnus glutinosa*. The territory and adjacent areas used for collecting of cranberry and bilberry by local population, and that is the one of the main revenue sources for the people. In the surroundings, the forestry and agriculture, domestic cattle growth, hunting, fishing is carried out; there is also few reclamation channels.

### 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 > Lakes and pools >> Tp: Permanent freshwater marshes/pools		0	1	
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		3	1337	Representative
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		3	3313	Rare
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		2	2383	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
9: Canals and drainage channels or ditches		4	11	

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
non-wetland forests	2880

(ECD) Habitat connectivity

The area has got mosaic structure with high level of habitats connectivity. It is the core zone of the regional ecological network.

### 4.3 - Biological components

#### 4.3.1 - Plant species

##### Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Rhododendron luteum</i>	Yellow azalea	Edge of the distribution areal
<i>Sparganium natans</i>	Least bur-reed	Edge of the distribution areal

##### Invasive alien plant species

Scientific name	Common name	Impacts
<i>Pinus banksiana</i>	Black pine	Potentially
<i>Quercus rubra</i>	Northern red oak	Potentially

#### 4.3.2 - Animal species

##### Invasive alien animal species

Phylum	Scientific name	Common name	Impacts
CHORDATA/ACTINOPTERYGII	Percoottus glenii		Potentially
CHORDATA/MAMMALIA	Neovison vison	American Mnk	Potentially

#### 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 climate of the site is comparatively humid and warm. An average annual precipitation is 550-600 mm. An average temperature is +6-7°C; temperature of the warmest month (July) is +18.5°C, temperature of the coldest month (January) is -5.5°C. The site is located in the zone of sufficient humidity, the average annual evaporation values from the surface are 525-550 mm.

##### 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.

The site "Syra Pogonia Bog" is a separate natural boundary of Ukraine's largest marsh massif Kreminne, located between the rivers Lva and Styvga in valley, entitled Stir-Slovechno. From the site water flows to the Lva River (172 km long; catchment area is 2,400 km<sup>2</sup>), which in the territory of Belarus flows into the Stviga River, a tributary of the Prypiat River (length is 761 km; catchment area is 114,000 km<sup>2</sup>). The Prypiat River is a tributary of the Dniro River.

##### 4.4.3 - Soil

- Mneral
- Organic
- 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)

On the not-marshesd areas the surfaces is mainly consists of Pleistocene alluvial sand deposits, on which the sod-podzolic soils were formed. Peat has a high acidity and low ash content (3-7%), it is laid by sand. The depth of peats is 4 m. The layer of sphagnum crown peat occurs to the depth of 1-1,5 m, below – layers of grass-sphagnum peat, and more lower – grass-sphagnum transitional peat.

##### 4.4.4 - Water regime

###### Water permanence

Presence?
Usually permanent water present
Usually seasonal, ephemeral or intermittent water present

###### Source of water that maintains character of the site

Presence?	Predominant water source
Water inputs from rainfall	<input checked="" type="checkbox"/>
Water inputs from surface water	<input type="checkbox"/>

###### Water destination

Presence?
Feeds groundwater

Stability of water regime

Presence?
Water levels fluctuating (including tidal)

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

The subterranean waters mostly are lying close to terrestrial surface. The area is covered by water during flood and high-water period. The precipitations in the form of snow and rain are the main water source. Level regime of surface waters is changeable. Inadequate drainage of the territory courses the season subterranean water level elevation. Last 2013-2015 years was very dry so water level become lower and period of floods became shorter.

(ECD) Connectivity of surface waters and of groundwater	The groundwater and surface waters are connected, however the connection scope never been investigated.
(ECD) Stratification and mixing regime	The stratification and mixing regime are changeable, but never been studied

4.4.5 - Sediment regime

- Significant erosion of sediments occurs on the site
- Significant accretion or deposition of sediments occurs on the site
- Significant transportation of sediments occurs on or through the site
- Sediment regime is highly variable, either seasonally or inter-annually
- Sediment regime unknown

4.4.6 - Water pH

- Acid (pH<5.5)
- Circumneutral (pH: 5.5-7.4)
- Alkaline (pH>7.4)
- Unknown

4.4.7 - Water salinity

- Fresh (<0.5 g/l)
- Mxohaline (brackish)/Mxosaline (0.5-30 g/l)
- Euhaline/Eusaline (30-40 g/l)
- Hyperhaline/Hypersaline (>40 g/l)
- Unknown

4.4.8 - Dissolved or suspended nutrients in water

- Eutrophic
- Mesotrophic
- Oligotrophic
- Dystrophic
- Unknown

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

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

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Fresh water	Drinking water for humans and/or livestock	Medium
Wetland non-food products	Livestock fodder	Low

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	High
Climate regulation	Local climate regulation/buffering of change	High
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Major scientific study site	High

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
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
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	High
Nutrient cycling	Carbon storage/sequestration	High

Other ecosystem service(s) not included above:

Populated areas, including social and cultural entities, are absent within the site. Industrial fishing and forestry are not conducted here.

Within the site:

Outside the site:

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

4.5.2 - Social and cultural values

- i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
- iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

4.6 - Ecological processes

(ECD) Primary production	<input type="text" value="No data"/>
(ECD) Nutrient cycling	<input type="text" value="No data"/>
(ECD) Carbon cycling	<input type="text" value="No data"/>
(ECD) Animal reproductive productivity	<input type="text" value="High level of animal reproductive productivity"/>
(ECD) Vegetational productivity, pollination, regeneration processes, succession, role of fire, etc.	<input type="text" value="All natural processes are in place and in large scope"/>
(ECD) Notable species interactions, including grazing, predation, competition, diseases and pathogens	<input type="text" value="No visible"/>
(ECD) Notable aspects concerning animal and plant dispersal	<input type="text" value="Only natural dispersal processes are located at place"/>
(ECD) Notable aspects concerning migration	<input type="text" value="Active migration"/>
(ECD) Pressures and trends concerning any of the above, and/or concerning ecosystem integrity	<input type="text" value="The site is highly naturally integral, avoiding any kind of human pressures"/>

## 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
Provincial/region/state government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Local authority, municipality, (sub)district, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public ownership	<input type="checkbox"/>	<input checked="" type="checkbox"/>

##### Private ownership

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

##### Other

Category	Within the Ramsar Site	In the surrounding area
No information available	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

a) within the site: State ownership; lands are transferred to permanent use to the Administration of the Rivnenskyi Nature Reserve. Administration of the Reserve has the Certificate on the right of permanent land use.  
 b) in the surrounding area: State, municipal and private properties (lands of Tomashgorodska, Vezhytska, Starosilska, Berezivska and Blazhivska Village Councils of the Rokytnytskyi Raion of the Rivnenska Oblast, lands of the State Enterprises "Rokytno Forestry" and "Klesiv Forestry", lands of residential and public buildings of village Bilsk, etc).

#### 5.1.2 - Management authority

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

Rivnenskyi Nature Reserve

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

Vasyl Bachuk, director

Postal address:

Urochyshe Dubky-Rozvylka,  
 Sarny, Rivnenska Oblast,  
 34503,  
 Ukraine

E-mail address:

rivnepz@ukr.net

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

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

#### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Drainage	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Wood and pulp plantations	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Hunting and collecting terrestrial animals	unknown impact	unknown impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Logging and wood harvesting	Medium impact	Medium impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gathering terrestrial plants	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Fire and fire suppression	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Invasive non-native/ alien species	unknown impact	unknown impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Unspecified	Medium impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Climate change and severe weather

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

Please describe any other threats (optional):

The surrounding areas are partly meliorated (particularly near localities Grabun, Vezhytsia and Stare Selo of the Rokytynskyi Raion). The melioration channels, especially during their clearing and excavation, that are carried out regularly every 10-15 years, cause a sharp outflow of water from the territory of the site. The low economic and social status and environmental activities of the population lead to excessive and unsustainable usage of resources (forestry, hunting, industrial berries gathering etc.) that are neighboring to the site.

5.2.2 - Legal conservation status

National legal designations

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

5.2.3 - IUCN protected areas categories (2008)

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

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Species

Measures	Status
Threatened/rare species management programmes	Proposed

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Partially implemented
Research	Implemented

5.2.5 - Management planning

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

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

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

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

From 2006 has functioning the Ecological-and-Education Center of Rivnensky Nature Reserve. On the base of the Centre and in regional educational institutions there are annual events where the attention is focused on importance of environment conservation and bog value, including wetlands of the Syra Pogonia Bog.

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

On the territory of the site and in the Rivnenskyi Nature Reserve totally, according to the appointed aims of the Reserve, annual inventory and monitoring of rare plant groups, flora and fauna species are implemented, phenological observations are carried out. Also the development and research on special studies are carried, including on topics of radioecology, hydrochemical, hydrobiological, flora and fauna survey, syntaxonomy vegetation studying, population parameters of rare plants monitoring and others that accumulate factual and statistical materials. However, such studies are fragmented and research programmes are not fully implemented.



## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Chronicle of Nature: Rivnenskyi Nature Reserve. – 2000-2015. [in Ukrainian]  
 Conservation and restoration of biodiversity of protected areas. Proceedings of the International scientific conference devoted to 10th anniversary of the Rivne Nature Reserve (Sarny, 11-13 June 2009) / Ed. by Budz M.D. et al. – Rivne: "Rivne printing", 2009. – 936 p. [in Ukrainian, Russian]  
 Directory of Ukraine's Wetlands / Edited by G. Marushevsky, I. Zharuk. – Kyiv: Wetlands International Black Sea Programme, 2006. – P. 103-107. [in Ukrainian]  
 Green Book of Ukraine / edited by the corresponding member of NAS of Ukraine Ya.P. Didukh. – K.: Alterpres, 2009. – 448 p. [in Ukrainian]  
 Nature of Polissia: Research and conservation / Materials of international scientific-practical conference, dedicated to the 15th anniversary of the Nature Reserve "Rivnenskyi" and the 10th anniversary of the Ramsar site "Perebrody Peatlands" (Sarny, 3-5 July 2014) / Edited by Zhuravchak R.O. – Rivne: Ovid, 2014. – 660 p. [in Ukrainian, Russian and English]  
 Official lists of regional rare plants of administrative territories of Ukraine (reference book) / Compiled by Prof., Dr. Tetyana L. Andrienko, Dr. Mykyta M. Peregrym., – Kyiv: Alterpress, 2012. – 148 p. [in Ukrainian]  
 Red Book of Ukraine. Flora / ed. by ya.P. Didukh. – K.: Hlobalkonsaltnh, 2009. – 900 p. [in Ukrainian]  
 Red Book of Ukraine. Wildlife / ed. by I.A.Akimov. – K.: Hlobalkonsaltnh, 2009. – 600 p. [in Ukrainian]  
 Reserves and National Nature Parks of Ukraine. – Kyiv: Vyshcha Shkola, 1999. – 230 p. [in Ukrainian]  
 Voloshynova N., Bachuk V., Gryshchenko Yu. The reserve land of forests, wetlands and lakes. – Rivne: "Rivne printing", 2007. – 200 p. [in Ukrainian]

#### 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  
<2 file(s) uploaded>

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

Please provide at least one photograph of the site:



Syra Pogonia ( Oksana Galovko, 21-08-2009 )



Mesotrophic sphagnum sedge ( Oksana Galovko, 10-06-2007 )



Nyphaea community ( Oksana Galovko, 16-06-2009 )



Oligomesotrophic marsh ( Oksana Galovko, 10-06-2007 )



Oligomesotrophic sphagnum marsh Kozlyi Brid ( Oksana Galovko, 10-06-2007 )



Oligomesotrophic sphagnum marsh Kozlyi Brid ( Oksana Galovko, 10-06-2007 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation