



# Ramsar Information Sheet

Published on 11 December 2020

## Serbia

### Djerdap



Designation date	8 June 2020
Site number	2442
Coordinates	44°34'05"N 22°07'52"E
Area	66 525,22 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

Derdap consists of three separate gorges and two canyons associated with three valleys. It is the largest and oldest water accumulation that broke through and connected water basins in the eastern and western regions. Đerdap is one of the rarest areas in Europe, as there is a high concentration of specific geological, geomorphological, paleontological, climatic, edaphic, phytocoenological, phytogeographical, floristic, faunal, as well as cultural-historical and archaeological phenomena.

The area is characterized by its highly complex, differentiated and diverse forest and shrub vegetation, which reflects a certain origin, historical developments and the contemporary environmental conditions. There are 57 forest communities in this area. Out of those, 40 are characterized as relict and 17 as contemporary. The relict communities are differentiated, 12 being polydominant of the parental type, 23 are degraded and 5 communities contain lilac bushes.

Over 1100 species and subspecies of vascular flora has been determined in the Site, which is slightly more than a quarter of the total flora of Serbia. Đerdap is also an internationally important area for plant protection (IPA- Important Plant Area).

Bird species are the most diverse of all the fauna in this area. There are approximately 170 bird species, out of which 110 are nesting. Due to the diversity of bird fauna and the presence of rare, threatened, and in other respects, important bird species, this area is included in the List of internationally Important Bird Areas - IBA (Important Bird Areas), within the BirdLife International program. Most of these birds are strictly protected in Serbia and many of them are species of international concern.

Mammal fauna consists of over 50 species, some of which are of exceptional importance and have a protected status, such as the water shrew, hazel dormouse, forest dormouse, otter, brown bear, wolf, lynx, wildcat, deer, chamois and a rich bat fauna.

The Đerdap area is inhabited by approximately 23 species of amphibians and reptiles.

Fish fauna is very rich and diverse, with 61 species which mostly inhabit Đerdap lake and Danube (gibel carp, sterlet, common bream, white-eye bream, bleak, asp, common barbel, common carp, chub, several species of gudgeon, eels, Caspian shad, Pontic shad, pike, common nase, swordfish, pigo, common rudd, Zingel)

## 2 - Data & location

### 2.1 - Formal data

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

##### Responsible compiler

Institution/agency

Postal address

##### National Ramsar Administrative Authority

Institution/agency

Postal address

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

From year

To year

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps

#### Boundaries description

The northern border of the area follows the bank of the Danube, which is also followed by the border of the Djerdap National Park. The part of the border of the area located south of the Danube also follows the border of the Djerdap National Park. The border of the area starts at Vinci village and ends at village Mala Vrbica. The border on the south side of the area passes through the northern slopes of the Deli Jovan Mountain. The beginning and the end of the borders ending in the same places. More information can be found in additional material section.

### 2.2.2 - General location

a) In which large administrative region does the site lie?

b) What is the nearest town or population centre?

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

### 2.2.4 - Area of the Site

Official area, in hectares (ha):

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

### 2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Continental
Freshwater Ecoregions of the World (FEOW)	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

Other reasons

The current state of wetlands and bird fauna was the result of the setting up of a dam, which caused the formation of new wetlands favourable to lake and aquatic bird species. Djerdap area is generally dominated by forest communities: communities of beech forests (*Fagetum montanum*) and communities of Hungarian Oak and Turkey Oak (*Quercetum farnetto-cerris serbicum*). What makes this area well known is a wide distribution of diverse, polydominant and impoverished relict forest associations, including some, for the first time described in Europe, at this location. The location also comprises Djerdap Dam Reservoir, rivers, streams and different water bodies with associated wetland communities (*Potamion*, *Hydrocharition*, *Lemnion*, *Phragmition*, *Magnocaricion*, *Bidention*, *Alnion glutinosae*, *Salicion* etc.). Some of these wetland habitat types are rare in its biogeographic region. Due to the pronounced gorge length, striking morphological shape of the terrain, different exposures, geological and pedological diversity, as well as the specific climate and microclimate characteristics and anthropogenic impacts, the area of Djerdap also has a distinct diversity of other habitat types (e.g. grasslands, cliffs, rocks, screes, ruderal sites, etc.) with associated plant communities (*Festucion valesiaca*, *Festucion vaginata*, *Achnatherion calamagrostis*, *Seslerion rigidae*, *Polygonion avicularis*, etc.). In area of Djerdap, field research and literature data shows presence of a total of 1013 species and subspecies of vascular flora (446 genera and 110 families) which makes little more than a quarter of the total flora of Serbia. The presence of 13 species of tertiary relicts is explained by the role of the Djerdap gorge and its steep limestone slopes as a refuge for the ancient Tertiary Central European forest flora. Of Balkan endemic species, 14 are found in Djerdap area (2.56% of the total 547 endemic plant taxa of Serbia. Ramsar site "Djerdap" includes two important bird areas, IBA Djerdap and IBA Mala Vrbica. IBA Djerdap includes approximately 170 bird species, while the list of bird species IBA Mala Vrbica includes approximately 120 bird species. In total, this area supports the presence of up to 200 bird species. Among them are extremely rare and internationally important species. Speaking about internationally important water habitats, a large part of the area is covered by water and wetland habitats, and especially the wetland fragments of Mala Vrbica and smaller areas along the banks of the Danube. These fragments are important for the nesting and feeding of species such as the Whiskered Tern *Chlidonias hybridus*, Common Tern *Sterna hirundo*, Ferruginous Duck *Aythya nyroca*, Marsh Harrier *Circus aeruginosus*, Little Ringed Plover *Charadrius dubius* and Northern Lapwing *Vanellus vanellus*. Especially important is the nesting of the Red-necked Grebe *Podiceps grisegena*. In the winter, the population of the Smew *Mergus albellus* with about 4000 individuals stands out.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

The site supports endemic species important for maintaining the biological diversity within the Continental biogeographic region. There are 14 endemic plant species of the Balcan region (*Acanthus hungaricus*, *Acer hyrcanum* subsp. *intermedium*, *Betonica scardica*, *Campanula sparsa* subsp. *sphaerotherix*, *Cytisus procumbens*, *Genista subcapitata*, *Viola macedonica*, *Eryngium palmatum*, *Cerastium rectum*, *Heliosperma pusillum* subsp. *moehringiifolia*, *Trifolium dalmaticum*, *Trifolium medium* subsp. *balcanicum*, *Sesleria latifolia* and *Festuca panciciana*). Besides these, there are also several Carpathian endemic species and sub-endemic species, such as: *Athamanta turbith* subsp. *hungarica*, *Seseli gracile* or *Campanula crassipes*, while 3 taxa are extinct in the Djerdap area (*Veronica bachofenii*, *Crocus banaticus* and *Tulipa hungarica*).

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

Criterion 5 : >20,000 waterbirds

Overall waterbird numbers	100000
Start year	2013
Source of data:	IWC

Criterion 6 : >1% waterbird population

Criterion 7 : Significant and representative fish

Justification	Fish fauna is very rich and diverse, with 61 species which mostly inhabit Đerdap lake and Danube (gibel carp, sterlet, common bream, white-eye bream, bleak, asp, common barbel, common carp, chub, several species of gudgeon, eels, Caspian shad, Pontic shad, pike, common nase, swordfish, pligo, common rudd, Zingel). This number of fish species represents 60% of all species to be found in Serbia.
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Criterion 8 : Fish spawning grounds, etc.

Justification	According to studies conducted in the area, the reservoir is a very important breeding and juvenile site for <i>Acipenser ruthenus</i> , a species that migrates upstream to lay the eggs. For other fish species migrating into Danube at maturity, the similar situation exists all along the green corridor of Danube River, especially in the part of the park where the pools and swamps are. These pools, swamps, tributaries and gulfs have important role for reproduction of many fish species. Unfortunately, there is no synchronization between the regulation of water levels in reservoir and fish spawning period, so it often happens that fish row remain on dry surface. Another problem is absence of synchronization between the fishing prohibition period and spawning period. This decimates the fish populations in the Iron Gates area. Other specific threats for fish species are mentioned under the point 26a.
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### 3.2 - Plant species whose presence relates to the international importance of the site

Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<b>Plantae</b>							
<i>Acanthus hungaricus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-LC	enndemic
<i>Acer hyrcanum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	National list-LC	enndemic
<i>Athamanta turbith hungarica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic
<i>Campanula crassipes</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	sub endemic
<i>Campanula sparsa sphaerotherix</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic
<i>Cerastium rectum</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-VU	enndemic
<i>Crocus banaticus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-DD	enndemic
<i>Cytisus procumbens</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic
<i>Eryngium palmatum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-LC	enndemic
<i>Festuca panciana</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic
<i>Genista subcapitata</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic
<i>Heliosperma pusillum moehringiiifolium</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-VU	
<i>Seseli gracile</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	sub endemic
<i>Sesleria latifolia</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-LC	enndemic
<i>Trifolium dalmaticum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-LC	enndemic
<i>Trifolium medium balcanicum</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-LC	enndemic
<i>Tulipa hungarica</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NT	<input type="checkbox"/>	National list-EX	enndemic
<i>Veronica bachofenii</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list-EX	enndemic
<i>Viola macedonica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	National list	enndemic

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

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
<b>Others</b>																	
CHORDATA/ MAMMALIA	<i>Canis lupus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Protected species
CHORDATA/ MAMMALIA	<i>Felis silvestris</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Protected species

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/ MAMMALIA	<i>Lutra lutra</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"/>				NT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Strictly protected species
CHORDATA/ MAMMALIA	<i>Lynx lynx</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Strictly protected species
CHORDATA/ MAMMALIA	<i>Rupicapra rupicapra balcanica</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Protected species
CHORDATA/ MAMMALIA	<i>Ursus arctos</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Habitat directive Annex II and Annex IV	Strictly protected species
<b>Fish, Mollusc and Crustacea</b>																	
CHORDATA/ ACTINOPTERYGII	<i>Abramis brama</i>	<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"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Acipenser ruthenus</i>	<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"/>				WU	<input type="checkbox"/>	<input type="checkbox"/>	Bern convention appendix III and CD 92/43 EEC Annex II	Protected species, hunting permanently prohibited
CHORDATA/ ACTINOPTERYGII	<i>Alburnus alburnus</i>	<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>Alosa caspia</i>	<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"/>	CD 92/43 EEC Annex V	Strictly protected
CHORDATA/ ACTINOPTERYGII	<i>Barbus barbus</i>	<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"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Blicca bjoerkna</i>	<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>Chondrostoma nasus</i>	<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"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Cyprinus carpio</i>	<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"/>				WU	<input type="checkbox"/>	<input type="checkbox"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Gymnocephalus schraetser</i>	<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"/>	Bern convention appendix III and CD 92/43 EEC Annex V	Protected species
CHORDATA/ ACTINOPTERYGII	<i>Hypophthalmichthys molitrix</i>	<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"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>		
CHORDATA/ ACTINOPTERYGII	<i>Leuciscus idus</i>	<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>Perca fluviatilis</i>	<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"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Rutilus rutilus</i>	<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>Sander lucioperca</i>	<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"/>	Bern convention appendix III	Protected species
CHORDATA/ ACTINOPTERYGII	<i>Sander volgensis</i>	<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"/>	Bern convention appendix III	Protected species
CHORDATA/ ACTINOPTERYGII	<i>Silurus glanis</i>	<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"/>	Bern convention appendix III	Protected species
CHORDATA/ ACTINOPTERYGII	<i>Squalius cephalus</i>	<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"/>		Protected species
CHORDATA/ ACTINOPTERYGII	<i>Vimba vimba</i>	<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"/>	Bern convention appendix III	Protected species
CHORDATA/ ACTINOPTERYGII	<i>Zingel zingel</i>	<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"/>	Bern convention appendix III and CD 92/43 EEC Annex V	
<b>Birds</b>																	
CHORDATA/ AVES	<i>Accipiter brevipes</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Nationally Endangered species. Strictly protected breeding species.



Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Anas platyrhynchos</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50000		3.33	LC	<input type="checkbox"/>	<input type="checkbox"/>		Protected wintering and breeding species.
CHORDATA/AVES	<i>Anser erythropus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				WU	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bird Directive Annex I	SPEC 1 winter, Strictly protected wintering species
CHORDATA/AVES	<i>Aquila chrysaetos</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Nationally vulnerable species. Strictly protected breeding species.
CHORDATA/AVES	<i>Aquila heliaca</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				WU	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bern convention appendix II, CMS Annex I	SPEC I, Strictly protected species in Serbia. National critically endangered.
CHORDATA/AVES	<i>Aquila pomarina</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Critically endangered species in Serbia. Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Ardea alba</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Ardea purpurea</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Vulnerable and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Aythya ferina</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40000		4	WU	<input type="checkbox"/>	<input type="checkbox"/>		Protected wintering species of Serbia.
CHORDATA/AVES	<i>Aythya fuligula</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11000		1.57	LC	<input type="checkbox"/>	<input type="checkbox"/>		Endangered species and protected wintering species of Serbia.
CHORDATA/AVES	<i>Aythya nyroca</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bird Directive Annex I, CMS Annex I	SPEC 1, Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Bucephala clangula</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15000		7.5	LC	<input type="checkbox"/>	<input type="checkbox"/>		Strictly protected wintering species of the site.
CHORDATA/AVES	<i>Buteo rufinus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Chlidonias niger</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Critically endangered and strictly protected breeding species.
CHORDATA/AVES	<i>Ciconia ciconia</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding species.
CHORDATA/AVES	<i>Ciconia nigra</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding species.
CHORDATA/AVES	<i>Circaetus gallicus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Near threatened species and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Circus aeruginosus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Near threatened species and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Circus pygargus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Vulnerable species and strictly protected breeding species of Serbia, but not of the site.
CHORDATA/AVES	<i>Crex crex</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Cygnus columbianus</i>	<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"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected wintering species.
CHORDATA/AVES	<i>Cygnus cygnus</i>	<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"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected wintering species.
CHORDATA/AVES	<i>Cygnus olor</i>	<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"/>	1700		3.78	LC	<input type="checkbox"/>	<input type="checkbox"/>		Strictly protected breeding species.

Phylum	Scientific 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								
CHORDATA/AVES	<i>Falco peregrinus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Endangered species in Serbia and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Gavia arctica</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected wintering species.
CHORDATA/AVES	<i>Gavia stellata</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected wintering species.
CHORDATA/AVES	<i>Grus grus</i>	<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"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected migratory species.
CHORDATA/AVES	<i>Haliaeetus albicilla</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bird Directive Annex I,	Near threatened species and also native to the site.
CHORDATA/AVES	<i>Hieraaetus pennatus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Vulnerable species and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Himantopus himantopus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Near threatened species and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Ixobrychus minutus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Mergellus albellus</i>	<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"/>	4000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected wintering species.
CHORDATA/AVES	<i>Microcarbo pygmeus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1700	2.43			<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I, Bern convention appendix II	Strictly protected breeding and wintering species of the site.
CHORDATA/AVES	<i>Milvus migrans</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Endangered species and strictly protected breeding species of the site.
CHORDATA/AVES	<i>Pandion haliaetus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected migratory species.
CHORDATA/AVES	<i>Pelecanus crispus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Bern convention appendix II, CMS Annex I	SPEC I winter, Strictly protected migratory species in Serbia.
CHORDATA/AVES	<i>Pernis apivorus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected breeding species of the site.
CHORDATA/AVES	<i>Recurvirostra avosetta</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Strictly protected migratory species.
CHORDATA/AVES	<i>Sterna hirundo</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Bird Directive Annex I	Vulnerable species and strictly protected breeding species of the site.

1) Percentage of the total biogeographic population at the site

Derdap area is exceptionally important for birds in migration and wintering. In addition to being geographically located in the area of eastern European migration corridor, Đerdap is also convenient due to the accumulation, as a large body of water, which rarely freezes in winter. During wintering period, the most present species are those of Anatidae duck family (16 species). 100000-150000 birds, primarily ducks, and other bird species related to aquatic habitats, are regularly present there in winter.

The species with largest numbers of individuals are the mallard *Anas platyrhynchos*, common pochard *Aythya ferina*, tufted duck *Aythya fuligula*, common golden eye *Bucephala clangula*, smew *Mergellus albellus* and graylag goose *Anser anser*. During the nesting period, the species common tern *Sterna hirundo* and whiskered tern *Chlydonias hybrida* are nesting in Đerdap area.

### 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
C1.34 Rooted floating vegetation of eutrophic waterbodies	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C1.62 Mesotrophic temporary waters	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C3.21 [Phragmites australis] beds	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C3.22 [Scirpus lacustris] beds	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C3.23 [Typha] beds	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C3.25 Water-fringe medium-tall grass beds	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C3.5 Pioneer and ephemeral vegetation of periodically inundated shores	<input checked="" type="checkbox"/>		EU Habitats directive annex I
E1.12 Euro-Siberian pioneer calcareous sand swards	<input checked="" type="checkbox"/>		EU Habitats directive annex I
E1.2F Pannonic sand steppes	<input checked="" type="checkbox"/>		EU Habitats directive annex I
E1.22 Arid subcontinental steppic grassland ([Festucion valesiaca])	<input checked="" type="checkbox"/>		EU Habitats directive annex I
E4.4 Calciphilous alpine and subalpine grassland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
F3.24 Subcontinental and continental deciduous thickets	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.11 Riverine [Salix] woodland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.2 Mixed riparian floodplain and gallery woodland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.A4 Ravine and slope woodland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.69 Moesian [Fagus] forests	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.73 Eastern [Quercus pubescens] woods	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.75 South-eastern sub-thermophilous [Quercus] woods	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.7C Mixed thermophilous woodland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
G1.8 Acidophilous Quercus dominated woodland	<input checked="" type="checkbox"/>		EU Habitats directive annex I
C1.33 Rooted submerged vegetation of eutrophic waterbodies	<input checked="" type="checkbox"/>		EU Habitats directive annex I

[Optional text box to provide further information](#)

Habitat types according to EUNIS Habitat Classification:

C1.33 Rooted submerged vegetation of eutrophic waterbodies  
C1.34 Rooted floating vegetation of eutrophic waterbodies  
C1.62 Mesotrophic temporary waters  
C1.63 Eutrophic temporary waters  
C3.21 [*Phragmites australis*] beds  
C3.22 [*Scirpus lacustris*] beds  
C3.23 [*Typha*] beds  
C3.25 Water-fringe medium-tall grass beds  
C3.5 Pioneer and ephemeral vegetation of periodically inundated shores  
E1.12 Euro-Siberian pioneer calcareous sand swards  
E1.2F Pannonic sand steppes  
E1.22 Arid subcontinental steppic grassland (*Festucion valesiaca*)  
E4.4 Calciphilous alpine and subalpine grassland  
F3.24 Subcontinental and continental deciduous thickets  
G1.11 Riverine [*Salix*] woodland  
G1.2 Mixed riparian floodplain and gallery woodland  
G1.A4 Ravine and slope woodland  
G1.69 Moesian [*Fagus*] forests  
G1.73 Eastern [*Quercus pubescens*] woods  
G1.75 South-eastern sub-thermophilous [*Quercus*] woods  
G1.7C Mixed thermophilous woodland  
G1.8 Acidophilous *Quercus* dominated woodland  
H1 Terrestrial underground caves, cave systems, passages and waterbodies  
I1 Arable land and market gardens  
J Constructed, industrial and other artificial habitats

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

### 4.1 - Ecological character

Derdap is dominated by forest ecosystems, reaching 80% of coverage. The forests of Đerdap are dominated by just two communities - Fagetum montanum and Quercetum confertae - cerris, although there is a presence of 57 different communities. Đerdap is also characterized by phytocenologic diversity, mosaic-like aspect of associations and frequent changes in vegetal layers. According to the analysis of pollen, the age of phytocenoses in the area of Đerdap is boreal. The ecological characteristics of the Đerdap area are best illustrated by the major vegetation groups. The first group consists of herbaceous vegetation that covers the lowest parts of the terrain. These are wetland and forest ecosystems in wet or periodically flooded land. This group includes all hygrophilic and hydrophilic vegetation that inhabits water and wetlands, and where the groundwater level during the vegetation period is on the surface or close to it. It also includes lowland forests of willow, poplar and pedunculate oak. Phytocenoses of the first group have a wide range and inhabit the lowest parts of the area. The second group is characterized by the vegetation on the deepest substrates and on the slightly inclined terrain. This group primarily includes mixed forests of oak. Oak trees are distributed in the major part of the area dominated by the species Quercus conferta K, Quercus cerris L., Quercus sessilis Ehrh. and Quercus pubescens L. The most common phytocenosis is Quercetum confertae - cerris Rudski, dominated by Quercus conferta with more than 80%.

The group that develops on the sandstone and loess terrains is exceptionally important. It is distributed only in the far eastern parts of the area. It is in a very restrictive area, and very endangered due to anthropogenic impacts. The existence of numerous cave ecosystems across Djerdap is certainly worth noting. The area of Djerdap is, due to its refugial character, distinguished by a high diversity of plant and animal species of different origin, distribution, and ecology, present in a relatively small range of altitudes and total surface of the area.

Nowadays, Djerdap's great ecosystem variety is threatened with continuous and significant anthropogenic influence.

### 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		1		Representative

#### Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type
2: Ponds	bare	3	
4: Seasonally flooded agricultural land		2	
9: Canals and drainage channels or ditches		3	

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Forests	
Agricultural	
grasslands	
cliffs	
ruderal sites	

### 4.3 - Biological components

#### 4.3.1 - Plant species

<no data available>

#### 4.3.2 - Animal species

<no data available>

### 4.4 - Physical components

#### 4.4.1 - Climate

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

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.

Danube river basen

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

4.4.4 - Water regime

Water permanence

Presence?	
Usually permanent water present	No change

Source of water that maintains character of the site

Presence?	Predominant water source	
Water inputs from precipitation	<input type="checkbox"/>	No change
Water inputs from groundwater	<input checked="" type="checkbox"/>	No change

Water destination

Presence?	
Marine	No change

Stability of water regime

Presence?	
Water levels largely stable	No change

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 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)	Medium

Regulating Services

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

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Medium
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High
Scientific and educational	Educational activities and opportunities	Medium

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

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

Description if applicable

An important element of the historical and cultural identity of the National park is the diverse and valuable immovable cultural heritage, primarily archaeological sites "Lepenski Vir" (7000 to 6000 year BC) and Vlasac from the Mesolithic period, as well as numerous Immovable Cultural Goods from the Roman period. The economy of the area of the National Park depends on the development of two major companies: Rudnik bakra Majdanpek (Copper Mine Majdanpek) and Hydropower system "Đerdap". Residents of the Danube villages are engaged in fishing. Forestry was the main source of income for the inhabitants of mountainous villages. Industrial production is underdeveloped, whereas the processing of agricultural products is dominant. The diversity of rural and cultural heritage, in particular the preserved examples of popular architecture and residential units, might contribute to strengthening the identity of the National Park and to the identification of residents and visitors with the natural and cultural values of rural areas, thus enabling a better conservation and valuing of cultural heritage. The area is populated by multi - ethnic population. Each ethnic group preserves its traditions and customs, which contributes to the multicultural character of the area.

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

<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
Public land (unspecified)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

##### Private ownership

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

#### 5.1.2 - Management authority

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

Public Enterprise National Park Djerdap

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

Lazar Mitrovic Director

Postal address:

Kralja Petra I 14, 19220 Donji Milanovac

E-mail address:

office@npdjerdap.org

## 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	In the surrounding area
Housing and urban areas	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Water regulation

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

#### Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Annual and perennial non-timber crops	Low impact	Low impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### Energy production and mining

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

#### Transportation and service corridors

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

#### Biological resource use

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

#### Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Dams and water management/use	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Household sewage, urban waste water	Low impact	Low impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Geological events

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

## 5.2.2 - Legal conservation status

## National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Ecological network of the Republic of Serbia	Djerdap		partly
Ecological network of the Republic of Serbia	Mala Vrbica		partly
National Park	Djerdap	<a href="http://www.npdjerdap.org/?page_id=99">http://www.npdjerdap.org/?page_id=99</a>	partly

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	Djerdap	<a href="http://datazone.birdlife.org/site/factsheet/derdap-gorge-iba-serbia">http://datazone.birdlife.org/site/factsheet/derdap-gorge-iba-serbia</a>	partly
Important Bird Area	Mala Vrbica	<a href="http://datazone.birdlife.org/site/factsheet/3134">http://datazone.birdlife.org/site/factsheet/3134</a>	partly

## 5.2.3 - IUCN protected areas categories (2008)

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

## 5.2.4 - Key conservation measures

## Legal protection

Measures	Status
Legal protection	Implemented

## Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented
Communication, education, and participation and awareness activities	Implemented
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:

The managing authority implements the activities ( informational and promotional materials, direct contact with the local population, thematic workshops) in order to raise the public awareness of the importance of protecting and preserving the values of the protected area and of reducing the exploitation of natural resources, with a view to sustainable development. In the area of NP, there are two Visitors Centers of the National Park Đerdap, where one can get the necessary information about the protected area and the activities of the NP management. Besides these centers, there are also three tourist information centers in the local tourist organizations in Golubac, Donji Milanovac and Kladovo, which provide tourist brochures (information on the accommodation and restaurants).

URL of site-related webpage (if relevant): <http://www.npdjerdap.org/?lang=en>

### 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
Animal species (please specify)	Implemented
Birds	Implemented
Plant species	Implemented
Water regime monitoring	Implemented

**Fish**  
Monitoring of the qualitative composition and age structure of fish stocks, biomass, production and fishing pressure (CPUE) on fish stocks is carried out. Monitoring of use of the fishing area is carried out every three years for the following species: *Acipenser ruthenus*, *Alburnus alburnus*, *Squalius cephalus*, *Barbus barbus*, *Aspius aspius*, *Abramis sapa*, *Rutilus rutilus*, *Abramis brama*, *Cyprinus carpio*, *Carassius gibelio*, *Chondrostoma nasus*, *Silurus glanis*, *Perca fluviatilis*, *Sander lucioperca*, *Sander volgense*, *Percottus glenii*, *Zingel zingel*, *Lepomis gibbosus*, *Vimba vimba*, *Ameiurus melas*, *Neogobius melanostomus*, *Neogobius fluviatilis*, *Hypophthalmichthys molitrix*, *Arystichthys nobilis*, *Leuciscus idus*

**Reptiles**  
In accordance with the management programme, permanent monitoring of these reptiles is carried out: *Emys orbicularis*, *Testudo hermanni*, *Anguis fragilis*, *Lacerta viridis*, *Darevskia praticola*, *Podarcis muralis*, *Podarcis tauricus*, *Ablepharus kitaibelii*, *Coronella austriaca*, *Dolichophis caspius*, *Zamenis longissimus*, *Natrix natrix*, *Natrix tessellata*, *Vipera ammodytes*, *Vipera berus*

**Amphibians**  
In accordance with the management programme, permanent monitoring of these amphibians is carried out: *Salamandra salamandra*, *Triturus cristatus*, *Triturus dobrogicus*, *Lissotriton vulgaris*, *Bufo bufo*, *Pseudepidalea viridis*, *Pelobates fuscus*, *Pelobates syriacus*, *Bombina bombina*, *Bombina variegata*, *Hyla arborea*, *Rana dalmatina*, *Rana temporaria*, *Pelophylax lessonae*, *Pelophylax ridibundus*, *Pelophylax esculentus*

**Birds**  
In accordance with the management programme, permanent monitoring of these bird species (besides IWC) is carried out: *Phalacrocorax pygmaeus*, *Egretta garzetta*, *Casmerodius albus*, *Ciconia ciconia*, *Pernis apivorus*, *Haliaeetus albicilla*, *Circaetus gallicus*, *Aquila pomarina*, *Aquila chrysaetos*, *Falco peregrinus*, *Bubo bubo*, *Cobus Strix uralensis*, *Alcedo atthis*

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

- Birdlife International (2004): Birds in European Union, a status assessment. Wageningen. The Netherlands: Birdlife.
- Diklić, N. (1999): Tulipa hungarica Borbas In: Stevanović, V. (ed) Crvena knjiga flore Srbije 1. Ministarstvo za životnu sredinu R Srbije, Biološki fakultet Univ. u Beogradu i Zavod za zaštitu prirode R Srbije. 91-93.
- Diklić, N., Nikolić, V. (1972): O nekim livadskim zajednicama iz Đerdapske klisure. - Glasnik Prirodnačkog muzeja, B27: 201-212, Beograd.
- Medarević, M., Jovanović, B., Banković, S., Karadžić, D. (2001) Šume Đerdapa. Donji Milanovac: Nacionalni park Đerdap.
- Медаревић, М. (2005): Типови шума Националног парка „Ђердап“. - Шумарски факултет Универзитета у Београду, Београд.
- Пузовић, С., Симић, Д., Савељић, Д., Гергелј, Ј., Туцаков, М., Стојнић, Н., Хуло, И., Хам, И., Визи, О., Шфибан, М., Ружић, М., Вучановић, М. & Јовановић, Т. (2003): Птице Србије и Црне Горе- величине гнездилшних популација и трендови: 1990-2002. Сiconia 12: 35-120. Нови Сад.
- Puzović, S., Sekulić, G., Stojnić, N. Grubač, B., Tucakov, M. (2009): Značajna područja za ptice u Srbiji. Ministarstvo životne sredine i prostornog planiranja. Zavod za zaštitu prirode Srbije. Beograd.
- Sekulić, N., Šinžar-Sekulić, J. (ed)(2010): Emerald ecological network in Serbia. Ministry of environment and spatial planning, Institute for nature conservation of Serbia.
- Stevanović, V. (ed) (2003): Preliminarna crvena lista flore Srbije i Crne Gore, manuskript-baza podataka, Beograd.
- Stevanović, V. (ed.) (1999): Crvena knjiga flore Srbije 1. Ministarstvo za životnu sredinu Republike Srbije, Biološki fakultet Univerziteta u Beogradu i Zavod za zaštitu prirode Republike Srbije.
- Tomović, G. (2007): Fitogeografska pripadnost, distribucija i centri diverziteta balkanske endemične flore u Srbiji. Doktorska disertacija (manuskript): 1-532. -Univerzitet u Beogradu, Biološki fakultet, Beograd.

#### 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:



Danube marshy river banks  
( P Lazarevic, 08-04-2014 )



Kovilovo ( M.Milenkovic  
Sbulovic, 10-05-2020 )



Kovilovo ( M.Milenkovic  
Sbulovic, 10-05-2020 )



Kovilovo ( N.Padakovic, 14-  
08-2020 )



Kovilovo ( N.Padakovic, 14-  
08-2020 )



Mali Strbac ( A.Sbulovic,  
04-07-2020 )



Ploce ( D.Milojkovic, 06-05-  
2020 )



Sokolovac ( D.Ilic, 24-09-  
2020 )



Sokolovac ( D.Ilic, 24-09-  
2020 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 2020-06-08