



Ramsar Information Sheet

Published on 20 June 2025

Update version, previously published on : 3 April 2017

Hungary

Bodrogzug



Designation date	17 March 1989
Site number	422
Coordinates	48°10'52"N 21°24'53"E
Area	4 220,00 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 area is the common floodplain of river Tisza and Bodrog, originally regularly flooded twice a year (due to climate change, the wether patterns are irregular now), at the end of winter and leafing/green flood. Lowland with oxbow lakes and marshes, at higher places remnants of oak-ash-elm forests and poplar plantations.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Responsible compiler

Institution/agency	Aggtelek National Park Directorate
Postal address	H-3758, Jósvalő Tengerszem oldal 1.

National Ramsar Administrative Authority

Institution/agency	Ministry of Agriculture
Postal address	Kossuth Lajos tér 11.

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

From year	2015
To year	2025

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Bodrozug
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2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

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

2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	Yes (likely)
(Update) Are the changes	Positive <input type="radio"/> Negative <input checked="" type="radio"/> Positive & Negative <input type="radio"/>
(Update) No information available	<input checked="" type="checkbox"/>
(Update) Changes resulting from causes operating within the existing boundaries?	<input checked="" type="checkbox"/>
(Update) Changes resulting from causes operating beyond the site's boundaries?	<input checked="" type="checkbox"/>
(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?	<input type="checkbox"/>
(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?	<input type="checkbox"/>
(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.	
<p>The area has a more and more boggy character, as the old riverbeds and channels are silting up. The ratio of the forested area is increasing because of expansion of the invasive <i>Amorpha fruticosa</i>. As a consequence, the number of several waterbirds (e.g. duck species, black stork) staging in the area decreased in the last years affecting, among others, Criterion 5 which no longer applies.</p> <p>For more information see Additional information - iv. relevant Article 3.2 reports.</p>	
(Update) Is the change in ecological character negative, human-induced AND a significant change (above the limit of acceptable change)	Yes <input checked="" type="radio"/>
(Update) Has an Article 3.2 report been submitted to the Secretariat?	Yes <input checked="" type="radio"/>

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps	0
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Boundaries description

The boundary is the same as an existing protected area (Tokaj-Bodrogzug Landscape Protection Area)

2.2.2 - General location

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

Borsod-Abaúj-Zemplén County

b) What is the nearest town or population centre?

Surrounded by Bodrogkeresztúr, Szegi, Olaszliszka, Tokaj, Zalkod villages. The closest large towns are Nyíregyháza in Szabolcs-Szatmár-Bereg County (approx. 35 km) and Miskolc in Borsod-Abaúj-Zemplén County, 55 kilometres to the west from the Site.

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):

4220

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

4219.3

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Pannonic

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

The site is one of the best-preserved open flood plain riparian area in the country due to the regular floods of river Tisza and Bodrog, a wetland of international significance.

Other ecosystem services provided

It is an outstandingly important bird migration stopover site, being a major wetland along the River Tisza, which is a flyway followed by large numbers of waterbirds (e.g. storks, geese, ducks, cranes etc.). Hardly any riparian wetland remained in a close-to-natural state along the River Tisza. It is also important as a feeding site for large birds, especially raptors and Black Storks breeding in the Zemplén Hills. The site also has unique importance for the fish fauna of the Tisza River as a spawning ground. It is regularly flooded in the spring, and the flooded meadows connected to the rivers provide ideal opportunities for spawning.

- ☒ Criterion 2 : Rare species and threatened ecological communities

- ☒ Criterion 3 : Biological diversity

Justification

The site supports hygrophilous communities important for maintaining the biological diversity within the Pannonian biogeographic region. Dynamic and continuous mosaic-patterned vegetation is characteristic. For a list of the most important hygrophilous communities (according to the Habitats Directive), please refer to Section 3.4 Ecological communities whose presence relates to the international importance of the Site.

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

- ☒ Criterion 8 : Fish spawning grounds, etc.

Justification

The site also has unique importance for the fish fauna of the Tisza River as a spawning ground. It is regularly flooded in the spring, and the flooded meadows connected to the rivers provide ideal opportunities for spawning.

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

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
Plantae								
TRACHEOPHYTA/ LILIOPSIDA	<i>Epipactis helleborine helleborine</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN	<input type="checkbox"/>		

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								
Others																	

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/ AMPHIBIA	<i>Bombina bombina</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Castor fiber</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"/>	Annex II of the EU Habitats Directive	
ARTHROPODA/ ARACHNIDA	<i>Dolomedes plantarius</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>		
CHORDATA/ REPTILIA	<i>Emys orbicularis</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
ARTHROPODA/ INSECTA	<i>Graphoderus bilineatus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
ARTHROPODA/ INSECTA	<i>Lucanus cervus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Lutra lutra</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 type="checkbox"/>	Annex II of the EU Habitats Directive	The site plays important role for the protection of the otter – Lutra lutra.
ARTHROPODA/ INSECTA	<i>Lycaena dispar</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Myotis blythii</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Myotis dasycneme</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Myotis emarginatus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Myotis myotis</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"/>	Annex II of the EU Habitats Directive	
ARTHROPODA/ INSECTA	<i>Ophiogomphus cecilia</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Rhinolophus ferrumequinum</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ AMPHIBIA	<i>Triturus dobrogicus</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
Fish, Mollusc and Crustacea																	
MOLLUSCA/ GASTROPODA	<i>Anisus vorticulus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Cobitis taenia</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Gymnocephalus baloni</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"/>	Annex II of the EU Habitats Directive	
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 type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Leuciscus aspius</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Misgurnus anguillicaudatus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Pelecus cultratus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Rhodeus amarus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Romanogobio albiginnatus</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Romanogobio kesslerii</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"/>	Annex II of the EU Habitats Directive	
CHORDATA/ ACTINOPTERYGII	<i>Sabanejewia aurata</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"/>	Annex II of the EU Habitats Directive	

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								
MOLLUSCA/ BIVALVIA	<i>Unio crassus</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"/>				EN	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
Birds																	
CHORDATA/ AVES	<i>Alcedo atthis</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"/>	Annex I of the EU Birds Directive	
CHORDATA/ AVES	<i>Anas clypeata</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/ AVES	<i>Anas crecca</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2500			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Anas platyrhynchos</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7500			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Anas querquedula</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Anas strepera</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/ AVES	<i>Anser albifrons</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Anser anser</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Ardea alba</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is a suitable feeding and breeding place for birds such as the Great White Egret. 40-400 pairs based on the Natura 2000 SDF.
CHORDATA/ AVES	<i>Ardea purpurea</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25	2020-2024		LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is a suitable feeding and breeding place for birds such as the Purple Heron. 25-75 pairs based on the Natura 2000 SDF.
CHORDATA/ AVES	<i>Asio flammeus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/ AVES	<i>Aythya ferina</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2000			VU	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Aythya fuligula</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/ AVES	<i>Aythya nyroca</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site is a stronghold of numerous breeding bird species, including several internationally protected ones, such as <i>Aythya nyroca</i> (Ferruginous Duck). The site is important nesting place for waterbirds such as the Ferruginous Duck.
CHORDATA/ AVES	<i>Botaurus stellaris</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Bittern.
CHORDATA/ AVES	<i>Bucephala clangula</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/ AVES	<i>Chlidonias hybrida</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	Criterion 4. The site is important nesting place for waterbirds such as the Whiskered Tern. (the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Chlidonias niger</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Balck Tern.

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>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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Ciconia nigra</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	In addition to typical waterbirds, the site is an important feeding place for raptors as well as Black Storks that visit the site during their breeding season and on migration.
CHORDATA/AVES	<i>Circus aeruginosus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	Raptors breeding in the area.
CHORDATA/AVES	<i>Circus cyaneus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Crex crex</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Corncrake.
CHORDATA/AVES	<i>Dendrocopos medius</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Dendrocopos syriacus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Dryocopus martius</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Egretta garzetta</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is a suitable feeding place for birds such as the Little Egret.
CHORDATA/AVES	<i>Gallinago gallinago</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/AVES	<i>Grus grus</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"/>	2500			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/AVES	<i>Haliaeetus albicilla</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	Raptors breeding in the area.
CHORDATA/AVES	<i>Ixobrychus minutus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is a suitable feeding and breeding place for birds such as the Little Bittern. 100-120 pairs based on the Natura 2000 SDF.
CHORDATA/AVES	<i>Lanius collurio</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Lanius minor</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Mergellus albellus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Microcarbo pygmeus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Milvus migrans</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	Raptors breeding in the area.
CHORDATA/AVES	<i>Numenius arquata</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/AVES	<i>Nycticorax nycticorax</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is a suitable feeding and breeding place for birds such as the Night Heron. 50-400 pairs based on the Natura 2000 SDF.
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"/>	Annex I of the EU Birds Directive	
CHORDATA/AVES	<i>Philomachus pugnax</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"/>	2250			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	(the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/AVES	<i>Picus canus</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"/>	Annex I of the EU Birds Directive	

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>Porzana parva</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Little Crake
CHORDATA/ AVES	<i>Porzana porzana</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Spotted Crake.
CHORDATA/ AVES	<i>Rallus aquaticus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	
CHORDATA/ AVES	<i>Remiz pendulinus</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"/>	Annex I of the EU Birds Directive	
CHORDATA/ AVES	<i>Sylvia nisoria</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"/>	Annex I of the EU Birds Directive	
CHORDATA/ AVES	<i>Tachybaptus ruficollis</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000			LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site is important nesting place for waterbirds such as the Little Grebe. (the figures are estimates based on data from the Aggtelek National Park Directorate's database of ranger surveys)
CHORDATA/ AVES	<i>Tringa glareola</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"/>	Annex I of the EU Birds Directive	
CHORDATA/ AVES	<i>Tringa totanus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Birds Directive	

1) Percentage of the total biogeographic population at the site

Criterion 4.

The site supports more than 250 bird species in their nesting, migration and wintering season. The site is a stronghold of numerous breeding bird species, including several internationally protected ones, such as *Aythya nyroca*. In addition to typical waterbirds, the site is an important feeding place for raptors as well as Black Storks that visit the site during their breeding season and on migration.

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
Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation	<input type="checkbox"/>		
Natural dystrophic lakes and ponds	<input type="checkbox"/>		
Rivers with muddy banks with Chenopodium rubri p. p. and Bidentation p. p.	<input type="checkbox"/>		
Alluvial meadows of river valleys of the Cnidion dubii	<input type="checkbox"/>		
Lowland hay meadows (Alopecurus pratensis, Sanguisorba officinalis)	<input type="checkbox"/>		
Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae)	<input type="checkbox"/>		
Riparian mixed forests with Quercus robur, Ulmus laevis and Ulmus minor Fraxinus excelsior	<input type="checkbox"/>	or Fraxinus angustifolia along the great rivers (Ulmenion minoris)	
Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae	<input type="checkbox"/>	and/or of the Isoëto-Nanojunc	

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

4.1 - Ecological character

The most important non-forested wetland habitats are the following: (1). Natural eutrophic lakes with Magnopotamion or Hydrocharition-type vegetation (e.g. *Salvinio-Spirodeletum*, *Hydrochari-Stratiotetum*, *Nymphaeetum albo-luteae*, *Trapetum natantis*, *Nymphoidetum peltatae*); (2). reedbed and marsh habitats (*Scirpo-Phragmitetum*, *Typhaetum latifoliae*, *T. angustifoliae*, *Schoenoplectetum lacustris*, *Glycerietum maximae*, *Caricetum gracilis*, *C. ripariae*, *C. acutiformis*); (3). wet meadow communities (*Agrostetum albae*, *Alopecuretum pratensis*, *Cirsio cani-Festucetum pratensis*). The most valuable and vulnerable forest habitats are the following: (1). Riverine willow-poplar woodlands (mostly *Leucojo-Salicetum albae*); (2). willow-bush (*Calamagrostio-Salicetum cinereae*); (3). Riverine oak-elm-ash woodlands (*Querco-Ulmetum*).

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 >> O: Permanent freshwater lakes		4	133	Unique
Fresh water > Lakes and pools >> P: Seasonal/intermittent freshwater lakes		2	221	Unique
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/pools		1	2652	Unique
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		2	221	
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	44	

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/LILIOPSIDA	<i>Acorus calamus</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Armoracia macrocarpa</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/LILIOPSIDA	<i>Epipactis tallosii</i>	Protected or strictly protected at the national level ; EU CITES B (II)
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Gentiana pneumonanthe</i>	protected species
TRACHEOPHYTA/LILIOPSIDA	<i>Iris sibirica</i>	Protected or strictly protected at the national level ; Annex V Habitats Directive
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Jacobaea paludosa</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Lathyrus palustris</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Leucanthemella serotina</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/LILIOPSIDA	<i>Leucojum aestivum</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Nymphaea alba</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Nymphoides peltata</i>	Protected or strictly protected at the national level
TRACHEOPHYTA/POLYPODIOPSIDA	<i>Salvinia auriculata</i>	Protected or strictly protected at the national level ; Annex I Bern Convention
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Trapa natans</i>	protected species

4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
ARTHROPODA/INSECTA	<i>Boloria selene</i>				
ARTHROPODA/INSECTA	<i>Brenthis ino</i>				
CHORDATA/AMPHIBIA	<i>Bufo bufo</i>				
CHORDATA/AMPHIBIA	<i>Hyla arborea</i>				
CHORDATA/AMPHIBIA	<i>Lissotriton vulgaris</i>				
CHORDATA/REPTILIA	<i>Natrix natrix</i>				
CHORDATA/REPTILIA	<i>Natrix tessellata</i>				
ARTHROPODA/INSECTA	<i>Palingenia longicauda</i>				
CHORDATA/AMPHIBIA	<i>Pelophylax lessonae</i>				
CHORDATA/AMPHIBIA	<i>Pseudepidalea viridis</i>				
CHORDATA/AMPHIBIA	<i>Rana arvalis</i>				
CHORDATA/AMPHIBIA	<i>Rana dalmatina</i>				
ARTHROPODA/INSECTA	<i>Stylurus flavipes</i>				
CHORDATA/AVES	<i>Actitis hypoleucos</i>				
CHORDATA/AVES	<i>Ardea cinerea</i>				The site is a suitable feeding place for birds such as the Grey Heron.
CHORDATA/AVES	<i>Falco subbuteo</i>				Raptors breeding in the area.
CHORDATA/AVES	<i>Podiceps cristatus</i>				The site is important nesting place for waterbirds such as the Great Crested Grebe.

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 area is moderately warm, moderately dry, with typical continental features. The climate of the catchment area varies from continental to mountainous.

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.

Bodrogzug is the southernmost and lowest alluvial plain of the region Bodroghöz, which is surrounded by the river Tisza from the south and the river Bodrog from the west. The landscape is densely dissected by oxbow- and floodplain lakes with abandoned riverbeds (Nagy-Nádas Lake, Nádas Lake, Nyárjas Lake, Kapitány Lake, Szada Lake, Bogdány Lake, Nagy Lake, Kerek Lake, Nagy Kovács Lake, Tökös Lake, Sáros Lake, Füzes Lake, Fekete Lake, Longi-ér, etc.).

The Bodrog river is originated from the confluence of Ondava, Latorca (Latorica), Laborc (Laborec), Ung and Tapoly rivers. These rivers spring from volcanic mountains in Slovakia and Ukraine (North-East Carpathians, Beskids, Low-Beskids).

4.4.3 - Soil

Mineral ☒

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

No available information ☐

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

Please provide further information on the soil (optional)

The brooks of Zemplén Mountains played an important role in the development of the present surface. On the surface of the alluvial fan, which is made of sandy sediments originated from the mountains, fluvial sand dunes have developed. The spectrum of the soil types is variable: mixture of Holocene fluvial sediments such as floodplain mud and meadow soils and partly fluvial sand.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually seasonal, ephemeral or intermittent water present	
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from surface water	<input checked="" type="checkbox"/>	decrease
Water inputs from precipitation	<input type="checkbox"/>	decrease

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change

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

The hydrological features of the site are determined by the Bodrog and Tisza rivers. Due to the floods, generally all the area is under water for 40-50 days per year (or in wet years 100-150 days per year!). The channels of the area help to carry away the floods. The settlements are saved by secondary summer-dikes mostly built after the last huge flood in 1999. From hydro-geological point of view the present mouth of Bodrog river at Tokaj is fairly young. It changed a lot in the pleistocenian - holocenian periods due to the situation of infilling and subsidence. Both rivers follow structural tectonic line, deeply incised meander, with typical middle-course features. The high groundwater level results from the effect of the dam at Tiszaóka.

The site holds a large amount of water during floods and thereby saves human settlements downstream from flooding.

4.4.5 - Sediment regime

Sediment regime unknown ☐

<no data available>

4.4.6 - Water pH

Unknown ☒

4.4.7 - Water salinity

Fresh (<0.5 g/l) ☒

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

Unknown ☐

4.4.8 - Dissolved or suspended nutrients in water

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 ☒

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 ☐

Please describe other ways in which the surrounding area is different:

No precise data available. Due to the drier conditions the amount of arable land is bigger, playing more significant role in the landscape management.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Climate regulation	Local climate regulation/buffering of change	Medium
Hazard reduction	Flood control, flood storage	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Medium

Other ecosystem service(s) not included above:

The ruins of the Rákóczi Castle are situated at the mouth of the river Bodrog. It was built at the same place where a former castle stood, which was destroyed by the Tartars in 1241. In the Middle Ages it played an important role in the Hungarian history, especially guarding the important trade-routes for the famous Tokaj wine to the east.

The wetland also probably has an important role in providing a special mesoclimate for the Tokaj wine-growing region, which became a World Heritage site (in the cultural landscape category) in 2002. The wetland helps maintain the climate necessary for the growth of a special fungus (Botrytis) that is the basis of the production of the internationally renowned Tokaji wine.

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

4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland ☐

ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland ☐

iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples ☐

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

<no data available>

4.6 - Ecological processes

<no data available>

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

5.1 - Land tenure and responsibilities (Managers)

5.1.1 - Land tenure/ownership

Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Private ownership

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

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

a) within the Ramsar site:

State property – 90%
Co-operative and unmanaged property – 5%
Private property – 5%

In the Ramsar site, belonging to the Tokaj-Bodrozug Landscape Protection Area, most of the co-operative lands were bought by the state for nature conservation purpose and the manager is the Aggtelek National Park Directorate (80%). Approx. 10% of the site – also in state property – belongs to the water management bodies.

b) in the surrounding area:

No precise data available. The proportion of state property is much smaller due to the lack of protected area. Dominance of private property is evident.

5.1.2 - Management authority

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

Aggtelek National Park Directorate

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

Responsible for nature conservation management of the Ramsar site: Mr. Balázs Veress, director

Postal address:

3758 Jósvalfő, Tengerszem oldal 1.
3758 Jósvalfő Pf. 6.
Phone: +36-48-506-000,

E-mail address:

anpi@anpi.hu

5.2 - Ecological character threats and responses (Management)

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

Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified development		Medium impact	<input type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Human intrusions and disturbance

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

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	High impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Industrial and military effluents	High impact		<input checked="" type="checkbox"/>	decrease	<input type="checkbox"/>	No change

Please describe any other threats (optional):

a) within the Ramsar site:

Tourism incurs some problems, e.g. littering, disturbing of nesting birds, etc.

Amorpha fruticosa is one of the most dangerous invasive shrub species which occurs on meadows and hayfields. In forest communities the role of *Fraxinus pennsylvanica* and *Acer negundo* is similar to *Amorpha fruticosa*.

The cyanide pollution of the rivers Szamos and Tisza took place in January 2000 (The 2000 Baia Mare cyanide spill was a leak of cyanide from a gold mine near Baia Mare, Romania, into the Someş/Szamos River). The passage of the polluted water plume has caused serious ecological damage, both in the Szamos River and in the Tisza River, which cannot be determined with exactitude. The ecological auto-recovery from the protected Bodrogzug area was quite quick and effective. Significant damage occurred in the fish stock.

b) in the surrounding area:

Plans for "opening" of this closed area also appeared (e.g. with reconstruction of former destroyed bridge through the Bodrog river).

5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Bodrogzug és Bodrog hullámtere		whole
EU Natura 2000	BodrogzugKopasz-hegyTaktaköz		whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
landscape protection area	Tokaj-Bodrogzug Landscape Protection Area	id. number 183/TK/86	whole

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Other non-statutory designation	special fish management and protection sites		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

Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented

Other:

The management of the protected areas are realized by contract with the farmers and agricultural companies (mostly with farm leasing for 5-years period).

The tourism in the site is coordinated by the Aggtelek National Park Directorate. The importance of water tourism is increasing in the Bodrog and Tisza river as well. The regulation of tourism is solved, the national park directorate operates a water-tourism registration system.

5.2.5 - Management planning

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

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

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

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

Due to the special conditions of the site the national park directorate does not plan a visitor centre within the site. The introduction to the natural assets takes place at the Tokaji Ferenc Secondary Grammar School.

5.2.6 - Planning for restoration

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

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Plant species	Implemented

Several botanical surveys of the Bodrogzug have been completed. The vegetation map of the Landscape Protection Area was made by botanists from the University of Debrecen in 1993. Within the framework of the National Biodiversity-monitoring System the actual habitat map (25 square kilometres) was completed in 2002 and it was refreshed in 2013.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

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- Tardy, J. (ed.) (2007): A magyarországi vadvízek világa. Pécsi Direkt Kft. Alexandra Kiadója, 2007. 416 p.
- Waliczky Z. (ed.) 1991: Európai jelentőségű madárelőhelyek Magyarországon. - MME Könyvtár, Bp.

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

<1 file(s) uploaded>

v. site management plan

<no file available>

vi. other published literature

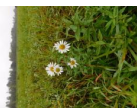
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6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



White Water-lilies and Black-headed Gulls on the Bodrogzug Ramsar Site. (Mr. Tamás Zsólyomi, 09-10-2008)



Hungarian Daisy (*Leucanthemella serotina*) (Mr. József Serfőző, 26-08-2023)



Great Cormorant colony (Mr. József Serfőző, 27-03-2023)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation

1989-03-17