



# Ramsar Information Sheet

Published on 8 November 2016

Update version, previously published on 1 January 2008

## Hungary

### Kis-Balaton



Designation date	17 March 1989
Site number	185
Coordinates	46°38'20"N 17°11'55"E
Area	14 659,00 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

Once the westernmost bay of Lake Balaton, the Kis-Balaton today is a water protection system consisting of two main parts (Phase I and Phase II, see description under item 16.). Phase I is characterised by open water surfaces with relatively narrow reedbelts along the dikes and some marshland vegetation on the southern part of the area, while Phase II contains vast reedbeds and sedgy marshes, and less open water. The Kis-Balaton has a crucial importance in the history of Hungarian nature conservation. This was the first area where the protection of the great white egret was organized. This species had become almost extinct, but due to its protection the population increased and nowadays about 4 000 pairs nest in Hungary. The Kis-Balaton, as a nature reserve area, has been legally protected since 1951. It has been part of the Balaton Uplands National Park since 1997. It has been under the protection of the Ramsar Convention since 1979. Almost the whole area of the Kis-Balaton was designated according to the Habitats Directive and the Birds Directive (12.803 ha, HUBF30003, SAC + SPA).

## 2 - Data & location

### 2.1 - Formal data

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

##### Compiler 1

Name	Máté Magyar
Institution/agency	Balaton Uplands National Park Directorate (Balaton-felvidéki Nemzeti Park Igazgatóság, BfNPI)
Postal address	HU-8229 Csopak, Kossuth L. u. 16.
E-mail	bfnp@bfnp.kwm.hu
Phone	+36-87-555260

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

From year	2015
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Kis-Balaton
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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) The boundary has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) B. Changes to Site area	the area has decreased
(Update) The Site area has been calculated more accurately	<input checked="" type="checkbox"/>
(Update) The Site has been delineated more accurately	<input checked="" 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?	No
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## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

#### Boundaries description (optional)

Site boundary is the same as the Kis-Balaton part of the Balaton Uplands National Park. The site boundary on the old map incorrectly included the village of Balatonmagyaród. This has been corrected on the new map, as the human settlement has never been and should not be part of the Ramsar site.

### 2.2.2 - General location

a) In which large administrative region does the site lie?	Zala & Somogy Counties
b) What is the nearest town or population centre?	Keszhtely

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?	Yes <input type="radio"/> No <input checked="" type="radio"/>
b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?	Yes <input type="radio"/> No <input checked="" type="radio"/>

### 2.2.4 - Area of the Site

## RIS for Site no. 185, Kis-Balaton, Hungary

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	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

Other reasons

The Kis-Balaton is unique within the biogeographic region by being one of the largest marshlands with reedbeds, marshy meadows and large sedges that are still in close-to-natural state. Most of the vegetation is water-logged for most of the vegetative season. The area of different types of reedbed vegetation is 2500 ha.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

The Kis-Balaton holds one of the highest concentrations of waterbirds in the migration period in Transdanubia, i.e. the western part of the Pannonic biogeographic region and supports important populations of plant and animal species for maintaining the biological diversity of the Pannonian Biogeographic region.

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

- Criterion 5 : >20,000 waterbirds

Overall waterbird numbers

27776

Source of data:

Please refer to the document in Additional material > iv. other published literature for the list of Bibliographical references for Criterion 5.

- Criterion 6 : >1% waterbird population

- Criterion 7 : Significant and representative fish

Justification

Several fish species, amongst which *Umbra krameri*, live and spawn in the area. For the list of internationally protected fish species, see Section 3.3 Animal species whose presence relates to the international importance of the site.

- Criterion 8 : Fish spawning grounds, etc.

Justification

The population of *Umbra krameri* in the Kis-Balaton is estimated at about 50% of the world population. Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for the asp (*Aspius aspius*) and other fish species: the carp (*Cyprinus carpio carpio morpha hungarica*), the roach (*Rutilus rutilus*), the rudd (*Scardinius erythrophthalmus*), the breams (*Abramis spp.*) and the bleak (*Alburnus alburnus*). Huge flocks of these fish species swim up from Lake Balaton to the spawning grounds of Kis-Balaton in every year.

- Criterion 9 : >1% non-avian animal population







































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
































Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Cirsium brachycephalum</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC ●●● ●●●	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
<i>Lindernia procumbens</i>	False Pimpernel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC ●●● ●●●	<input type="checkbox"/>	Annex IV of the EU Habitats Directive	
<i>Trapa natans</i>	Water Chestnut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC ●●● ●●●	<input type="checkbox"/>	Appendix I of the Bern Convention	

Criterion 2: The area of different types of threatened reedbed and sedges vegetation is approximately 3500 ha (2500 ha reedbed, 1000 ha sedge vegetation).

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


















Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/ ACTINOPTERYGII	<i>Alburnus alburnus</i>	bleak	<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"/>		Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for the bleak ( <i>Alburnus alburnus</i> )
CHORDATA/ AVES	<i>Anas acuta</i>	Northern Pintail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas clypeata</i>	Northern Shoveler	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1800	2011	4.5		<input type="checkbox"/>	<input type="checkbox"/>		individuals 1% threshold = 400, Kis-Balaton: 1.800 migrating individuals (Nov. 2011) – max. rate Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas crecca</i>	Eurasian Teal; Green-winged Teal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas penelope</i>	Eurasian Wigeon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas platyrhynchos</i>	Mallard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas querquedula</i>	Garganey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ AVES	<i>Anas strepera</i>	Gadwall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below
CHORDATA/ REPTILIA	<i>Anguis fragilis</i>	Slowworm	<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"/>	Bern Convention Appendix III	
MOLLUSCA/ GASTROPODA	<i>Anisus vorticulus</i>	Little Ramshorn Whirlpool Snail	<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"/>		Annexes II and IV of the EU Habitats Directive
CHORDATA/ AVES	<i>Anser albifrons</i>	Greater White-fronted Goose	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5000	2011	4.5	LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		individuals (average) 1% threshold = 1.100, Kis-Balaton: >5.000 wintering individuals (Nov. 2011) – max. rate Criterion 5: see text box below
CHORDATA/ AVES	<i>Anser anser</i>	Greylag Goose	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9084	2006-2011	16.2	LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		individuals (average) 1% threshold = 560, Kis-Balaton: 6000 in January 2008, 6000 in November 2008, 8757 in November 2010, 15580 in November 2011. Criterion 5: see text box below
CHORDATA/ AVES	<i>Anser fabalis</i>	Bean Goose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC ●●● ●●●	<input type="checkbox"/>	<input type="checkbox"/>		Criterion 5: see text box below

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification	
			2	4	6	9	3	5	7	8									
CHORDATA/AVES	 <i>Ardea alba</i>	Great White Egret	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	375	2013	1.6	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	pairs (average) breeding pairs 1% threshold = 460, Kis-Balaton: cca. 350-400 breeding pairs (2013) – max. rate
CHORDATA/AVES	 <i>Ardea purpurea</i>	Purple Heron	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/AVES	 <i>Ardeola ralloides</i>	Squacco Heron	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/AVES	 <i>Aythya nyroca</i>	Ferruginous Duck	<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"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Birds Directive Annex I, European IUCN Red List: VU	Criterion 4: see text box below
CHORDATA/AMPHIBIA	 <i>Bombina bombina</i>	Fire-bellied Toad	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/AVES	 <i>Botaurus stellaris</i>	Eurasian Bittern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/AMPHIBIA	 <i>Bufo bufo</i>	European Toad	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix III	
ARTHROPODA/INSECTA	 <i>Cerambyx cerdo</i>	Greater Capricorn Beetle	<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"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>	Appendix II of the Bern Convention ; Annexes II and IV of the EU Habitats Directive	
CHORDATA/ACTINOPTERYGII	 <i>Cobitis taenia</i>	Loach	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix III, Habitats Directive Annex II	
ARTHROPODA/INSECTA	 <i>Coenagrion ornatum</i>	Omate Bluet	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II of the EU Habitats Directive	Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/AVES	 <i>Crex crex</i>	Corn Crake	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ACTINOPTERYGII	 <i>Cyprinus carpio</i>	carp	<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 checked="" type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>		carp ( <i>Cyprinus carpio carpio morpha hungarica</i> ) Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for the carp. Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/AVES	 <i>Egretta garzetta</i>	Little Egret	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/REPTILIA	 <i>Emys orbicularis</i>	Emys orbicularis	<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"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/MAMMALIA	 <i>Eptesicus serotinus</i>	serotine;Common Serotine	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
ARTHROPODA/INSECTA	 <i>Eriogaster catax</i>	Tent Caterpillar Moth	<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"/>	<input type="checkbox"/>	Bern Convention Appendix II ; Annexes II and IV of the EU Habitats Directive	
CHORDATA/AVES	 <i>Falco subbuteo</i>	Eurasian Hobby;Northern Hobby	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II	
CHORDATA/MAMMALIA	 <i>Felis silvestris</i>	Wildcat	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/AVES	 <i>Haliaeetus albicilla</i>	White-tailed Eagle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haliaeetus albicilla	
CHORDATA/AVES	 <i>Himantopus himantopus</i>	Black-winged Stilt	<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"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ANNELIDA/ CLITELLATA	 <i>Hirudo medicinalis</i>	Medicinal Leech	<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"/>	Bern Convention Appendix III, Habitats Directive Annex V, EU CITES B(II)	
CHORDATA/ AMPHIBIA	 <i>Hyla arborea</i>	European Tree Frog	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AVES	 <i>Ichthyaeetus melanocephalus</i>	Mediterranean Gull	<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"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ AVES	 <i>Ixobrychus minutus</i>	Little Bittern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ REPTILIA	 <i>Lacerta agilis</i>	Sand Lizard	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ ACTINOPTERYGII	 <i>Leucaspis delineatus</i>	Sunbleak	<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"/>	Bern Convention Appendix III	Slack waters of the wetlands are excellent for the sunbleak that require specific ecological circumstances. Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ ACTINOPTERYGII	 <i>Leuciscus aspius</i>	Asp	<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"/>					<input type="checkbox"/>	<input type="checkbox"/>	Habitats Directive Annex II	Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for the asp ( <i>Aspius aspius</i> ). Refer to 6.1.2 Additional materials > iv. other published literature
ARTHROPODA/ INSECTA	 <i>Leucornithia pectoralis</i>	Yellow-spotted Whiteface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II	Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ AMPHIBIA	 <i>Lissotriton vulgaris</i>	Smooth Newt	<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"/>	Bern Convention Appendix III	
ARTHROPODA/ INSECTA	 <i>Lucanus cervus</i>	Stag Beetle	<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"/>	Bern Convention Appendix III, Habitats Directive Annex II	
CHORDATA/ MAMMALIA	 <i>Lutra lutra</i>	European Otter	<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"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
ARTHROPODA/ INSECTA	 <i>Lycaena dispar</i>	Large Copper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/ AVES	 <i>Microcarbo pygmeus</i>	Pygmy Cormorant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	518	2011	1.8		<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	wintering individuals cca. 130-150 breeding pairs (2013), 518 wintering individuals (Dec. 2011) - max. rates
CHORDATA/ MAMMALIA	 <i>Microtus oeconomus</i>	tundra vole	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-1		1	LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix III, Habitats Directive Annexes II and IV	<i>Microtus oeconomus mehelyi</i> Criterion 9: see text box. Kis-Balaton is one of the few remaining sites for the Pannonic subspecies of the Northern Vole (Root Vole), a glacial relict. This subspecies is restricted to special sedge marshes in Transdanubia.
CHORDATA/ ACTINOPTERYGII	 <i>Misgurnus fossilis</i>	Weatherfish	<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"/>	Bern Convention Appendix III, Habitats Directive Annex II	Slack waters of the wetlands are excellent for the weatherfish that require specific ecological circumstances. Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ MAMMALIA	 <i>Mustela erminea</i>	Ermine	<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"/>	Bern Convention Appendix III	
CHORDATA/ MAMMALIA	 <i>Myotis bechsteinii</i>	Bechstein's Bat	<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"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/ MAMMALIA	 <i>Myotis dasycneme</i>	Pond Myotis; pond bat	<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"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	



Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/ MAMMALIA	<i>Myotis daubentonii</i>	Daubenton's Myotis	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ MAMMALIA	<i>Myotis myotis</i>	Mouse-eared Myotis; mouse-eared bat	<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"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/ MAMMALIA	<i>Myotis nattereri</i>	Natterer's bat; Natterer's Myotis	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ REPTILIA	<i>Natrix natrix</i>	Grass Snake	<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"/>	Bern Convention Appendix III	
CHORDATA/ REPTILIA	<i>Natrix tessellata</i>	Dice Snake	<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"/>	Bern Convention Appendix II, Habitats Directive Annexes II and IV	
CHORDATA/ MAMMALIA	<i>Nyctalus noctula</i>	noctule; Noctule	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AVES	<i>Nycticorax nycticorax</i>	Black-crowned Night Heron; Black-crowned Night-Heron	<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"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ AMPHIBIA	<i>Pelobates fuscus</i>	Spadefoot Toad	<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"/>	Bern Convention Appendix II	
CHORDATA/ MAMMALIA	<i>Pipistrellus kuhlii</i>	Kuhl's Pipistrelle; Kuhl's pipistrelle	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ MAMMALIA	<i>Pipistrellus nathusii</i>	Nathusius's pipistrelle; Nathusius's Pipistrelle	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ MAMMALIA	<i>Pipistrellus pipistrellus</i>	Common Pipistrelle; common pipistrelle	<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"/>	Bern Convention Appendix III, Habitats Directive Annex IV	
CHORDATA/ MAMMALIA	<i>Pipistrellus pygmaeus</i>	Soprano Pipistrelle	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AVES	<i>Platalea leucorodia</i>	Eurasian Spoonbill	<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"/>	Birds Directive Annex I, (EU CITES A (II))	
CHORDATA/ MAMMALIA	<i>Plecotus austriacus</i>	gray big-eared bat; Gray Long-eared Bat	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AVES	<i>Porzana parva</i>	Little Crane	<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"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ AVES	<i>Porzana porzana</i>	Spotted Crane	<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"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ AMPHIBIA	<i>Pseudepidalea viridis</i>	Green Toad	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AMPHIBIA	<i>Rana anvalis</i>	Rana anvalis	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ AMPHIBIA	<i>Rana dalmatina</i>	Agile Frog	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ ACTINOPTERYGII	<i>Rhodeus sericeus</i>	Bitterling	<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"/>	Bern Convention Appendix III, Habitats Directive Annex II	Refer to 6.1.2 Additional materials > iv. other published literature

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ARTHROPODA/ INSECTA	<i>Rhysodes sulcatus</i> 	Wrinkled Bark Beetle	<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"/>	Habitats Directive Annex II	
CHORDATA/ ACTINOPTERYGII	<i>Rutilus rutilus</i> 	roach	<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"/>		Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for roach ( <i>Rutilus rutilus</i> )
CHORDATA/ ACTINOPTERYGII	<i>Scardinius erythrophthalmus</i> 	rudd	<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"/>		Water habitats of Phase II of the Kis-Balaton are very convenient spawning grounds for the rudd ( <i>Scardinius erythrophthalmus</i> )
CHORDATA/ AVES	<i>Sterna hirundo</i> 	Common Tern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Birds Directive Annex I	
CHORDATA/ AVES	<i>Tachybaptus ruficollis</i> 	Little Grebe	<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"/>	Bern Convention Appendix II	
CHORDATA/ AMPHIBIA	<i>Triturus dobrogicus</i> 	Crested Newt	<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"/>	Bern Convention Appendix II, Habitats Directive Annex II	
CHORDATA/ ACTINOPTERYGII	<i>Umbra krameri</i> 	European Mud-minnow	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-1		50	VU 	<input type="checkbox"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annex II	Criterion 9: see text box below. The population of <i>Umbra krameri</i> in Kis-Balaton is estimated at about 50% of the world population. Slack waters of the wetlands are excellent for the european mud-minnow.
MOLLUSCA/ GASTROPODA	<i>Vertigo angustior</i> 	marsh snail	<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"/>	Habitats Directive Annex II	
CHORDATA/ MAMMALIA	<i>Vespertilio murinus</i> 	Particolored Bat ; particolored bat	<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"/>	<input type="checkbox"/>	Bern Convention Appendix II, Habitats Directive Annex IV	
CHORDATA/ REPTILIA	<i>Zamenis lineatus</i> 	Aesculapian Snake	<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"/>	Bern Convention Appendix II, Habitats Directive Annex IV	

Criterion 2 - Species which are not listed in the Catalogue of Life:

- *Cucujus cinnaberinus* - Bern Convention Appendix II, Habitats Directive Annexes II and IV
- *Euplagia quadripunctaria* (Jersey Tiger) - Habitats Directive Annex II
- *Vertigo moulinsiana* (Desmoulin's Whorl Snail)- Habitats Directive Annex II
- *Rana esculenta* (Edible Frog) - Bern Convention Appendix III, Habitats Directive Annex V
- *Rana lessonae* (Lesser Pond Frog) - Bern Convention Appendix III, Habitats Directive Annex IV
- *Rana ridibunda* (Pond Frog) - Bern Convention Appendix III, Habitats Directive Annex V

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* (see international designations under justification of Criterion 2). The Kis-Balaton is also one of the few remaining sites for the Pannonic subspecies of the Northern Vole (Root Vole), a glacial relict listed on the Bern Convention Appendix III and on Annexes II and IV of the Habitats Directive. This subspecies is restricted to special sedge marshes in Transdanubia.

Criterion 5: Please refer to the document in section 6.1 Additional material > iv. other published literature.

Criterion 6: Please refer to the document in section 6.1 Additional material > iv. other published literature.

Criterion 9: The site regularly supports 1% of the individuals of the following populations:

- Invertebrates: *Cercyon hungaricus* Endrődy-Younga 1967 - Reference: Lökkös, A., 2014. The water and shore beetles (Coleoptera) of the Kis-Balaton. *Natura Somogyiensis*, 25 : 141-156

- Fish: *Umbra krameri* Walbaum 1792- The population of *Umbra krameri* in the Kis-Balaton is estimated at about 50% of the world population. (Sallai, Zoltán pers. comm.) - Additional reference: European Environment Agency, Report under the Article 17 of the Habitats Directive – Period 2007-2012 – species *Umbra krameri*

- Mammal: *Microtus oeconomus méhelyi* Éhik 1928 - Reference: European Environment Agency, Report under the Article 17 of the Habitats Directive – Period 2007-2012 – species *Microtus oeconomus méhelyi*

Please refer to the document in section 6.1 Additional material > iv. other published literature.

### 3.4 - Ecological communities whose presence relates to the international importance of the site

<no data available>

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

### 4.1 - Ecological character

The rate of eutrophication of the reservoir is high. Its main source has been the Zala River, generating a high density of algae. Marshlands bordered with non-tussock beds of large sedges and wet meadows alternate with open water surface and reedbeds.

The site supports many waterbirds, during nesting and migration too.

### 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 >> M: Permanent rivers/ streams/ creeks		4		
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		1		Unique
Fresh water > Marshes on peat soils >> U: Permanent Non-forested peatlands		3		
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands				

#### Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
6: Water storage areas/Reservoirs		2		

### 4.3 - Biological components

#### 4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Acer campestre</i>	field maple	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Acorus calamus</i>	sweet-flag	Botanical rarities - exist at the borders and openings of the large reedbeds
<i>Alnus glutinosa</i>	common alder	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Anacamptis coriophora</i>	Bug Orchid	EU CITES B(II)
<i>Anacamptis morio</i>	Green-winged Orchid	EU CITES B(II)
<i>Anacamptis palustris</i>	Marsh Orchid	EU CITES B(II)
<i>Anacamptis palustris elegans</i>		EU CITES B(II)
<i>Cephalanthera damasonium</i>	White Helleborine	EU CITES B(II)
<i>Cephalanthera longifolia</i>	Sword-leaved Helleborine	EU CITES B(II)
<i>Cicuta virosa</i>	cicuta	Botanical rarities - exist at the borders and openings of the large reedbeds
<i>Dactylorhiza incarnata</i>	Early Marsh Orchid	EU CITES B(II)
<i>Epipactis helleborine</i>	Broad-leaved Helleborine	EU CITES B(II)
<i>Epipactis helleborine helleborine</i>		EU CITES B(II)
<i>Epipactis nordeniorum</i>		EU CITES B(II)
<i>Epipactis palustris</i>	Marsh Helleborine	EU CITES B(II)
<i>Epipactis tallosii</i>		EU CITES B(II)
<i>Hottonia palustris</i>	feather-foil	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Iris sibirica</i>	Siberian iris	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Lathyrus palustris</i>	Marsh Pea; Marsh Vetchling	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Neottia nidus-avis</i>	Bird's Nest Orchid	EU CITES B(II)
<i>Neottia ovata</i>	Common Twayblade	EU CITES B(II)
<i>Nymphaea alba</i>	white water-lily	
<i>Ophrys sphegodes</i>	Early Spider Orchid	EU CITES B(II)
<i>Orchis militaris</i>	Military Orchid	EU CITES B(II)
<i>Persicaria amphibia</i>	water-hogweed	
<i>Platanthera bifolia</i>	Lesser Butterfly-orchid	EU CITES B(II)
<i>Populus alba</i>	silver poplar	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Quercus petraea</i>	English oak	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Ranunculus lingua</i>	reed-buttercup	Refer to 6.1.2 Additional materials > iv. other published literature
<i>Spiranthes spiralis</i>	Autumn Lady's-tresses	EU CITES B(II)
<i>Stratiotes aloides</i>	water-soldier	
<i>Thelypteris palustris</i>	peat fern	Botanical rarities - exist at the borders and openings of the large reedbeds
<i>Urtica kioviensis</i>	fen-nettle	Botanical rarities - exist at the borders and openings of the large reedbeds

## 4.3.2 - Animal species

Other noteworthy animal species

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	% occurrence	Position in range /endemism/other
CHORDATA/MAMMALIA	Canis aureus	Golden Jackal				Habitats Directive Annex V
CHORDATA/ACTINOPTERYGII	Cobitis elongatoides	spiked loach				Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ACTINOPTERYGII	Esox lucius	pike				Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ACTINOPTERYGII	Sander lucioperca	pikeperch				Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ACTINOPTERYGII	Silurus glanis	wels				Refer to 6.1.2 Additional materials > iv. other published literature
CHORDATA/ACTINOPTERYGII	Tinca tinca	tench				Refer to 6.1.2 Additional materials > iv. other published literature

#### 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)

Lower part of river basin

More than one river basin

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

The catchment area of the Kis-Balaton is about 2800 km<sup>2</sup>. 16 watercourses join the reservoir and the marshland. River Zala is the most significant of them.

##### 4.4.3 - Soil

Organic

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?	Changes at RIS update
Usually permanent water present	

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

Phase I of the system could be characterized as an open water surface area diversifying with small islands and with an area of 2380 ha. Owing to the locks and dike system, the turnover of the water is about two weeks and the water leaves Phase I in the former bed of River Zala and flows into Phase II. At this stage at Phase II the former dikes were cut through so that the river could water the area again. The different types of wetlands were maintained by the river. Marshlands bordered with non-tussock beds of large sedges and wet meadows alternate with open water surface and reedbeds.

Altogether, the water stays about one month in the Kis-Balaton before it reaches Lake Balaton.

The trait of this water body (water protecting system for removal of nutrients) determines the water levels and water permanence in all seasons. The average depth is about 1,5 meters.

Refer to 6.1.2 Additional materials > iv. other published literature > Physical features of the site

##### 4.4.5 - Sediment regime

Please provide further information on sediment (optional):

The shoreline is anchored and dissipated of erosive forces.

##### 4.4.6 - Water pH

Unknown

##### 4.4.7 - Water salinity

Fresh (<0.5 g/l)

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

Please provide further information on dissolved or suspended nutrients (optional):

The main function of the Kis-Balaton is removing incoming nutrition by filtering through algae, floating and emergent marshland vegetation and by sediment trapping.

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.

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
Wetland non-food products	Reeds and fibre	Medium
Wetland non-food products	Timber	Medium

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Erosion protection	Soil, sediment and nutrient retention	Medium
Pollution control and detoxification	Water purification/waste treatment or dilution	Medium
Hazard reduction	Coastal shoreline and river bank stabilization and storm protection	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Picnics, outings, touring	Medium

Other ecosystem service(s) not included above:

Land using means some controlled fish production, limited forestry and reed-harvesting in the area.

Within the Ramsar site:

Main activities are some works attached to water protecting and reserving, controlled fishing and reed harvesting, limited forestry, controlled hunting, limited guided tourism.

In the surroundings/catchment:

Mainly grazing, arable land cultivation, woodland management, hunting.

Hydrological values:

The main function of the Kis-Balaton is removing incoming nutrition by filtering through algae, floating and emergent marshland vegetation and by sediment trapping.

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

<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
Other types of private/individual owner(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

##### Within the Ramsar site:

The Kis-Balaton Water Reserve System is completely state-owned. The surrounding protected areas are mainly state-owned too, but there are some private grasslands and agricultural areas.

##### In the surrounding area:

There are mainly private agricultural areas and forests and grasslands in the surrounding area.

#### 5.1.2 - Management authority

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

West-Transdanubian Environmental Nature Conservation and Water Management Authority

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

Máté Magyar

Postal address:

H-9700 Szombathely, Vörösmarty u. 2.  
Balaton Uplands National Park Directorate  
H-8229 Csopak, Kossuth L. u. 16.

E-mail address:

bfnp.kisbalaton@gmail.com

## 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			<input type="checkbox"/>		<input checked="" type="checkbox"/>	

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Hunting and collecting terrestrial animals	Medium impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Fishing and harvesting aquatic resources	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

#### Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

#### Pollution

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

Please describe any other threats (optional):



## Within the Ramsar site:

- Past: fisheries, reed harvesting, hunting and the construction of the water protection system.
- Present and potential: illegal fishing, continuation of the construction of the water protection system.

## In the surrounding area:

- Past: intensive use of artificial fertilizers in agriculture; introducing outlet water into live streams; - increasing load of phosphorous transported by inflows.
- Present and potential: illegal pollution, innovations.

## 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	HUBF 30003 Kis-Balaton, SAC + SPA		partly

## National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
National park	Balaton Uplands National Park		whole

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	HU004 Kis-Balaton		partly

## 5.2.3 - IUCN protected areas categories (2008)

- V Protected Landscape/Seascape: protected area managed mainly for  
landscape/seascape conservation and recreation

## 5.2.4 - Key conservation measures

## Legal protection

Measures	Status
Legal protection	Implemented

## Habitat

Measures	Status
Habitat manipulation/enhancement	Implemented

## Species

Measures	Status
Control of invasive alien animals	Implemented

## Human Activities

Measures	Status
Fisheries management/regulation	Implemented
Harvest controls/poaching enforcement	Implemented

Other:

Current management practices:

- Fishing, forestry, hunting and reed-harvesting are under control and regulation.
- Grasslands and meadows managed by the national park directorate are treated with an appropriate method according to the current vegetation period. Reed-beds are renewed partially by cutting in the winter season. Cutting of reedbeds selectively results in diverse habitats. Thus the age of the reed-beds becomes more variegated and the condition of the habitats is suited to nesting birds requiring different nesting places.
- The presence of goldfish (*Carassius auratus*) that produces large biomass in the water body is an actual problem regarding the fish fauna. The goldfish expands its occurrence against that of the crucian carp (*Carassius carassius*), which is an indigenous species in Hungary. To resolve this problem, carnivorous fish species like the pike were introduced and selective electric fishing has been used.
- The population of wild boar (*Sus scrofa*) has to be controlled by regular hunting. This species puts pressure on bird populations nesting on or close to the ground.

Conservation measures proposed but not yet implemented:  
There are no such conservation measures.

### 5.2.5 - Management planning

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

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

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

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

A 2,5 km long nature trail (Búbos Vöcsök Nature Trail) is located on the Kányavári Island and another 1 km long nature trail (Kócsag Nature Trail) is located near the Diás Island.

The Balaton Uplands National Park Directorate organizes various guided ecotouristic excursions on the strictly protected area of the Kis-Balaton. Guided long tour with bus across the Kis-Balaton: cca. 2.000 persons/year; short tour to the Diás Island: cca. 5.000 persons/year; exclusive boat trip along the Zala River: cca. 200 persons/year. The Kányavári Island is free for visitors, with cca. 100.000 persons/year. Sport fishing is limited, there are 4 legal places at the Kis-Balaton to do this type of recreation. The Directorate manages a buffalo reserve in the area.

### 5.2.6 - Planning for restoration

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

### 5.2.7 - Monitoring implemented or proposed

From the beginning of flooding in 1985, research projects and monitoring activity were started on the wetlands on behalf of the water protection and nature protection institutions. Since 1994, when a part of Phase II was flooded, the research was focused on marshlands with more variegated habitats. A new biomonitoring program has started in 2012 by the organization of General Directorate of Water Management.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

- Csupor, T. (1990): Kis-Balaton, Gondolat, Budapest, p. 22-26., 81-90.
- Keve, A. (1976): Adatok a Kis-Balaton madárvilágához I., Aquila, 82., p. 49-50.
- Ligeti, L. (1974): A Balaton es szabályozása, Vízügyi történeti füzetek, Budapest, p. 13-14.
- Marosi, S. - Somogyi, S. (1990): Magyarország kistájainak katasztere I-II., MTA Földrajztudományi - Kutatóintézete, Budapest, p. 483-487.
- Futó J. (szerk.) (2001): A Kis-Balaton térsége. A Balaton-felvidék természeti értékei II. Balaton-felvidéki Nemzeti Park Igazgatóság, Veszprém, p. 5-112.

The above is just a shortlist for the most important references. There are more than 350 research reports in many themes, for instance water quality, water ecology, algology, plants and vegetation, reed-beds, biotechnon, zooplanton, molluscs, macrozoobenton, fish fauna, amphibians, reptiles, birds, mammals etc.

#### 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

<5 file(s) uploaded>

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

Please provide at least one photograph of the site:



Flocking waterbirds on the mudbanks of the Ingó Grove at the Kis-Balaton. ( Mr. Máté Magyar, Balaton-felvidéki Nemzeti Park Igazgatóság (National Park Directorate), 18-07-2015 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation