



# Ramsar Information Sheet

Published on 25 November 2015

Update version, previously published on 1 January 2007

## Hungary

### Béda-Karapanca



|                  |                       |
|------------------|-----------------------|
| Designation date | 30 April 1997         |
| Site number      | 901                   |
| Coordinates      | 45°56'43"N 18°46'15"E |
| Area             | 8 668,90 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

Béda-Karapanca is a part of the Duna-Dráva National Park, lying on the southernmost part of the river Danube near the boundary of Hungary. It contains typical floodplain habitats.

## 2 - Data & location

### 2.1 - Formal data

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

##### Compiler 1

|                    |                                       |
|--------------------|---------------------------------------|
| Name               | Ákos Gáborik, conservation officer    |
| Institution/agency | Duna-Dráva Nemzeti Park Directorate   |
| Postal address     | H-7625 Pécs, Tettye tér 9.<br>Hungary |
| E-mail             | gaborik@ddnp.kwm.hu                   |
| Phone              | +36 72 517 200                        |

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

|           |      |
|-----------|------|
| From year | 2013 |
| To year   | 2015 |

#### 2.1.3 - Name of the Ramsar Site

|   |                |
|---|----------------|
| Official name (in English, French or Spanish) | Béda-Karapanca |
|---|----------------|

#### 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 checked="" type="radio"/> No <input type="radio"/> |
| (Update) The boundary has been delineated more accurately  | <input checked="" type="checkbox"/>                           |
| (Update) B. Changes to Site area                           | the area has increased  |
| (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? | Not evaluated |
|--|---------------|

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

#### Boundaries description (optional)

The previous map did not accurately represent the boundaries of the Ramsar Site. This has been corrected on the new map where the boundary of the Ramsar Site follows the boundary of the Béda-Karapanca unit of the Duna-Dráva National Park.

### 2.2.2 - General location

|  |   |
|--|---|
| a) In which large administrative region does the site lie? | Barany  |
| b) What is the nearest town or population centre?          | The nearest large town is Mohács with approximately 50.000 inhabitants. |

### 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

## RIS for Site no. 901, Béda-Karapanca, 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

Béda-Karapanca is a typical representative site for the floodplains of the Danube on the middle part of the river. Its large size, naturalness and richness of habitats provide proper circumstances for the plant and animal communities. It holds the largest Hungarian population of *Crataegus nigra*, a plant endemic to the lower Danube floodplains. It also holds certain sub-Mediterranean elements that are not found elsewhere in Hungary, such as *Lonicera caprifolium*, *Digitalis ferruginea*, the Pontic-sub-Mediterranean *Scutellaria altissima*, the Balkan-Appenine *Helleborus odoratus* and the Balkan Linden (*Tilia argentea*). Typical floating vegetation communities include good stands of *Lemneto-Utricularietum* and *Myriophyllo-Potamogetum* with *Hydrocharis morsus-ranae*, *Nymphaea alba*, *Nuphar lutea* and *Nymphoides peltata*. Another typical habitat comprises mudflats, changing dynamically with flood conditions. In addition to Willow trees (*Salix* sp.), typical plants are *Dichostylis micheliana*, *Eleocharis acicularis* and *Gnaphalium luteoalbum*. In slightly higher elevation within the flood plain, remnant softwood gallery woodlands are found with *Salix* sp., somewhat even higher Poplar trees (*Populus nigra*, *P. alba*), while the highest elevations within the flood plain are occupied by *Fraxino-Pannonicaeulmetum* (Ash-Elm hardwood forest). These gallery woodlands have been destroyed by river regulations or converted into hybrid poplar stands in many places in Europe (partially even in Béda-Karapanca).

Other ecosystem services provided







Please refer to Section 3.4 Ecological communities whose presence relates to the international importance of the Site for habitats of community importance listed for for Béda-Karapanca Natura 2000 site.















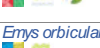
























- Criterion 2 : Rare species and threatened ecological communities
- Criterion 4 : Support during critical life cycle stage or in adverse conditions












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

important in maintaining the geographic range of a plant species/community + supports endemic species + supports rare/endangered species

#### 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                        | 8                        |           |                     |              |   |                          |                          |                                   |   |
| CHORDATA/<br>AVES | <i>Alcedo atthis</i><br>      | Common Kingfisher           | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex I of the EU Birds Directive | Criterion 4: the site supports threatened breeding birds including 10-15 pairs of <i>Alcedo atthis</i> .    |
| CHORDATA/<br>AVES | <i>Anas platyrhynchos</i><br> | Mallard                     | <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"/> |           |                     |              | LC<br> | <input type="checkbox"/> | <input type="checkbox"/> |                                   | Criterion 4: the site supports threatened breeding birds including 150 pairs of <i>Anas platyrhynchos</i> . |
| CHORDATA/<br>AVES | <i>Anser albifrons</i><br>    | Greater White-fronted Goose | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex I of the EU Birds Directive |   |

| Phylum                  | Scientific name  | Common name   | Species qualifies under criterion   |                                     |                          |                          | Species contributes under criterion |                          |                          |                          | Pop. Size                | Period of pop. Est. | % occurrence | IUCN Red List | GITES Appendix I  | CMS Appendix I                      | Other Status                        | Justification                         |   |
|-------------------------|--|---|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|--------------|---------------|---|-------------------------------------|-------------------------------------|---------------------------------------|---|
|                         |  |   | 2                                   | 4                                   | 6                        | 9                        | 3                                   | 5                        | 7                        | 8                        |                          |                     |              |               |   |                                     |                                     |                                       |   |
| CHORDATA/AVES           |  <i>Anser anser</i>               | Greylag Goose                                       | <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"/> | <input type="checkbox"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 20 nesting pairs of <i>Anser anser</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<br>   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 8 nesting pairs of <i>Aythya nyroca</i> .          |
| CHORDATA/MAMMALIA       |  <i>Barbastella barbastellus</i>  | western barbastelle;Western Barbastelle             | <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"/> |                     |              |               | NT<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| 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"/> | <input type="checkbox"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| CHORDATA/AVES           |  <i>Botaurus stellaris</i>        | Eurasian Bittern                                    | <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"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 7 pairs of <i>Botaurus stellaris</i> .             |
| CHORDATA/AVES           |  <i>Ciconia nigra</i>             | Black Stork   | <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"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 12 nesting pairs of <i>Ciconia nigra</i> .         |
| CHORDATA/AVES           |  <i>Crex crex</i>                 | Corn 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"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     |   |
| CHORDATA/AVES           |  <i>Egretta garzetta</i>          | Little Egret  | <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"/> |                     |              |               | LC<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 30 nesting pairs of <i>Egretta garzetta</i> .      |
| 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"/> | <input type="checkbox"/> |                     |              |               | NT<br>   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| CHORDATA/AVES           |  <i>Falco cherrug</i>             | Saker Falcon  | <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"/> |                     |              |               | EN<br>   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Annex I of the EU Birds 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"/> | <input type="checkbox"/> |                     |              |               | LC<br>   | <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"/> | <input type="checkbox"/> |                     |              |               | LC<br>  | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| CHORDATA/AVES           |  <i>Haliaeetus albicilla</i>    | White-tailed Eagle                                  | <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"/> |                     |              |               | LC<br> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 5 nesting pairs of <i>Haliaeetus albicilla</i> .   |
| 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"/> |                     |              |               | LC<br> | <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"/> | <input type="checkbox"/> |                     |              |               |   | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| 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"/> | <input type="checkbox"/> |                     |              |               | NT<br> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| 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"/> | <input type="checkbox"/> |                     |              |               | NT<br> | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| CHORDATA/AVES           |  <i>Milvus migrans</i>          | Black Kite  | <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"/> |                     |              |               | LC<br> | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 15 nesting pairs of <i>Milvus migrans</i> .        |
| CHORDATA/ACTINOPTERYGII |  <i>Misgurnus fossilis</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"/> |                     |              |               | LC<br> | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| 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"/> | <input type="checkbox"/> |                     |              |               | NT<br> | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex II of the EU Habitats Directive |   |
| CHORDATA/AVES           |  <i>Nycticorax nycticorax</i>   | Black-crowned Night Heron;Black-crowned Night-Heron | <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"/> |                     |              |               | LC<br> | <input type="checkbox"/>            | <input type="checkbox"/>            | Annex I of the EU Birds Directive     | Criterion 4: the site supports threatened breeding birds including 80 nesting pairs of <i>Nycticorax nycticorax</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                        |           |                     |              |   |                          |                          |                                       |               |
| ARTHROPODA/<br>INSECTA      | <i>Osmoderma eremita</i><br>       |             | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex II of the EU Habitats Directive |               |
| CHORDATA/<br>ACTINOPTERYGII | <i>Pelecus cultratus</i><br>       |             | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex II of the EU Habitats Directive |               |
| CHORDATA/<br>ACTINOPTERYGII | <i>Rhodeus amarus</i><br>          |             | <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/<br>ACTINOPTERYGII | <i>Rutilus rutilus</i><br>         |             | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex II of the EU Habitats Directive |               |
| MOLLUSCA/<br>GASTROPODA     | <i>Theodoxus transversalis</i><br> |             | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex II of the EU Habitats Directive |               |
| MOLLUSCA/<br>BIVALVIA       | <i>Unio crassus</i><br>            |             | <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<br> | <input type="checkbox"/> | <input type="checkbox"/> | Annex II of the EU Habitats Directive |               |

## Criterion 2:

 - *Marsilea quadrifolia*: Annex II Habitats Directive (IUCN Red List - LC)

## 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 |
|--|--|--|---------------|
| 3130 Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae    | <input type="checkbox"/>               | and/or of the Isoëto-Nanojuncetea  |               |
| 3150 Natural eutrophic lakes with Magnopotamion or Hydrocharition – type vegetation                | <input type="checkbox"/>               |  |               |
| 3270 Rivers with muddy banks with <i>Chenopodium rubri</i> p.p. and <i>Bidention</i> p. vegetation | <input type="checkbox"/>               |  |               |
| 6440 Alluvial meadows of river valleys of the <i>Cnidion rubii</i>                                 | <input type="checkbox"/>               |  |               |
| 91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i>                    | <input type="checkbox"/>               |  |               |
| 91F0 Riparian mixed forests  | <input type="checkbox"/>               | Riparian mixed forests of <i>Quercus robur</i> , <i>Ulmus laevis</i> and <i>Ulmus minor</i> , <i>Fraxinus excelsior</i> or <i>Fraxinus angustifolia</i> , along the great rivers |               |
| 91G0 Pannonic woods with <i>Quercus petraea</i> and <i>Carpinus betulus</i>                        | <input type="checkbox"/>               |  |               |

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

### 4.1 - Ecological character

Béda-Karapanca hosts a large variety of floodplain habitats along the River Danube. There are rivers, oxbow lakes and ponds in the floodplain. Besides the open water areas, there are marshlands, reedbeds, meadows, willow bushes and gallery forests with ash, elm, alder and oak trees.

The most characteristic vegetation types (associations) are as follows:

Salicetum albae-fragilis

Caricetum elatae

Scirpo-Phragmitetum

Lemno-Utricularietum

Hydrochari-Strattonetum

Fracino-pannonicae-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 > Flowing water >> M: Permanent rivers/ streams/ creeks   |            | 1  |                           |                              |
| Fresh water > Flowing water >> N: Seasonal/ intermittent/ irregular rivers/ streams/ creeks                         |            | 0  |                           |                              |
| Fresh water > Lakes and pools >> O: Permanent freshwater lakes  |            | 4  |                           |                              |
| Fresh water > Marshes on inorganic soils >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils |            | 3  |                           | Representative               |
| Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands   |            |  |                           |                              |
| Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands                                 |            | 2  |                           | Representative               |

### 4.3 - Biological components

#### 4.3.1 - Plant species

##### Other noteworthy plant species

| Scientific name                  | Common name | Position in range / endemism / other                                 |
|----------------------------------|-------------|--|
| <i>Carex strigosa</i>            |             | biogeographically important, potentially endangered                  |
| <i>Carpesium abrotanoides</i>    |             | rare, biogeographically important, potentially endangered            |
| <i>Cephalanthera damasonium</i>  |             |  |
| <i>Crataegus nigra</i>           |             | endemic species, known only from the lower floodplains of the Danube |
| <i>Epipactis helleborine</i>     |             |  |
| <i>Epipactis microphylla</i>     |             |  |
| <i>Iris sibirica</i>             |             | rare, potentially endangered   |
| <i>Leucjum aestivum</i>          |             | potentially endangered   |
| <i>Nymphaea alba</i>             |             |  |
| <i>Nymphoides peltata</i>        |             | rare, potentially endangered   |
| <i>Ophioglossum vulgatum</i>     |             | rare, potentially endangered   |
| <i>Platanthera bifolia</i>       |             |  |
| <i>Salvinia natans</i>           |             |  |
| <i>Scilla vindobonensis</i>      |             |  |
| <i>Vitis vinifera sylvestris</i> |             |  |

#### 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/AVES | Anas clypeata   | Northern Shoveler          |           |                     |             |  |
| CHORDATA/AVES | Aythya ferina   | Common Pochard             |           |                     |             |  |
| CHORDATA/AVES | Iduna pallida   | Eastern Olivaceous Warbler |           |                     |             | biogeographically important 1 nesting pair |

#### 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) |

The climate is humid continental.

##### 4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

Middle part of 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 Site is situated on the active floodplain of the Danube river, the water regime of the branches, oxbow lakes and other backwater types depend on the main course of the river. The floodplain is formed by alluvial sediments, sand and clay. The water bodies mostly surrounded by forest (hardwood and softwood gallery forest and tree plantations. Some water are bordered by reedbeds. The climate is continental.

Béda-Karapancsa has a flat topography, there are only a few metres elevation difference within the site. On the surface sediment mainly consists of riverine alluvial sediments, consisting of Quaternary gravel, sand and clay deposits

##### 4.4.3 - Soil

Mineral

Organic

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)

Characteristic soils are floodplain, meadow and peat-like soils.

##### 4.4.4 - Water regime

Water permanence

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

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

Water quality is still good enough to maintain the values of the wetland.

##### 4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

Béda-Karapancsa plays an important role in sediment trapping.

On the riversides of the Danube, sandbanks arise continuously. They wander with the floods, as a consequence of watercourse regulation that has been carried out.

##### 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

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 more intensive agricultural use

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

Primarily the water quality could be the determining factor for the ecosystem therefore it should be kept at a high standard. Industrial pollution coming from upstream (nuclear power station at Paks, e.g.) as well as agricultural chemical runoff may deteriorate water quality. Deepening of the riverbed due to former river regulation (cutting through bends) causes decline in water levels.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

| Ecosystem service | Examples   | Importance/Extent/Significance |
|-------------------|--|--------------------------------|
| Food for humans   | Sustenance for humans (e.g., fish, molluscs, grains) | Medium                         |

Regulating Services

| Ecosystem service  | Examples                              | Importance/Extent/Significance |
|--------------------|---------------------------------------|--------------------------------|
| Erosion protection | Soil, sediment and nutrient retention | Medium                         |
| Hazard reduction   | Flood control, flood storage          | Medium                         |

Cultural Services

| Ecosystem service      | Examples                         | Importance/Extent/Significance |
|------------------------|----------------------------------|--------------------------------|
| Recreation and tourism | Recreational hunting and fishing | Medium                         |

Other ecosystem service(s) not included above:

Fishing, forestry, hunting.

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"/> |
| Local authority, municipality, (sub)district, etc. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

##### Private ownership

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

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

**a) within the Ramsar site:**

The territory of Béda-Karapanca is mainly state owned, but private, cooperative and local municipality ownership can also be found.

**b) in the surrounding area:**

The surrounding area is owned by cooperatives, local municipalities and state companies.

#### 5.1.2 - Management authority

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

Duna-Dráva National Park Directorate

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

Ákos Gáborik, zoological officer

Postal address:

H-7625 Pécs, Tettye tér 9.  
Hungary  
Phone: +36-72-517-200,  
Fax: +36-72-517-201,  
E-mail: DunaDrava@ddnp.kvvm.hu

E-mail address:

gaborik@ddnp.kvvm.hu

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

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

#### 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 |                  | <input type="checkbox"/> | No change | <input checked="" 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 | Medium impact |                  | <input checked="" type="checkbox"/> | No change | <input type="checkbox"/> | No change |
| Problematic native species         | Medium 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   |               | Medium impact    | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |
| Agricultural and forestry effluents |               | Medium impact    | <input type="checkbox"/> | No change | <input checked="" type="checkbox"/> | No change |

Please describe any other threats (optional):

a) within the Ramsar site:  
 Invasive tree species (*Acer negundo*) expand on some parts of the nature reserve. *Populus hybridus* and *Juglans nigra* have been artificially planted in monocultures in several places, replacing native gallery woodlands. Populations of wild boar and red deer are much higher than natural, affecting natural regrowth of forest and sometimes even successful breeding of birds. The high number of wild grazers are also a potential threat for the site (red deer, wild boar).

Current recreation and tourism:  
 Mass tourism is increasing, its harmful aspect being tent camping without permission or even notification of the national park. Professional and thematic tourism is guided, thus it has no disadvantageous effects. Water tourism is not prominent, since canoe groups usually only travel through this section of the Danube. Angling is characteristic, but it is well regulated and controlled, therefore its negative impact is decreasing. Due to new fishing exhibition site the thematic tourism is increasing, but it has no disadvantageous effects, because of the low number of visitors and guidance.

b) in the surrounding area:  
 Primarily the water quality could be the determining factor for the ecosystem therefore it should be kept at a high standard. Industrial pollution coming from upstream (nuclear power station at Paks, e.g.) as well as agricultural chemical runoff may deteriorate water quality. Deepening of the riverbed due to former river regulation (cutting through bends) causes decline in water levels.

### 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   | Béda-Karapanca |                        | whole                    |

#### National legal designations

| Designation type          | Name of area              | Online information url | Overlap with Ramsar Site |
|---------------------------|---------------------------|------------------------|--------------------------|
| landscape protection area |                           |                        | whole                    |
| national park             | Duna-Dráva National Park. |                        | partly                   |

### 5.2.3 - IUCN protected areas categories (2008)

II National Park: protected area managed mainly for ecosystem protection and recreation

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

### 5.2.4 - Key conservation measures

#### Habitat

| Measures                                  | Status      |
|---|-------------|
| Catchment management initiatives/controls | Implemented |
| Habitat manipulation/enhancement          | Proposed    |
| Hydrology management/restoration          | Proposed    |

#### Species

| Measures        | Status                |
|-----------------|-----------------------|
| Reintroductions | Partially implemented |

#### Human Activities

| Measures   | Status      |
|--|-------------|
| Regulation/management of recreational activities | Implemented |

Other:

Current management practices:

Water level regulation is taken in order to retain flood waters, thereby helping fish spawning in flooded plains and releasing water back when fish fry have developed. A sluice system has been built at Nagyrét (near Kölked village) and on the strictly protected Szúnyog Island. The canal network in the area (Boki-Duna) helps to maintain water levels of oxbows and larger lakes in accordance with the demands of breeding waterbird species. Motorboat riding, fishing and hunting are regulated (for example extra restrictions for hunting in the breeding season around nesting sites of strictly protected species). The National Park Directorate has started a re-stocking scheme for declining fish species, such as Tinca tinca, Carassius carassius and wild Cyprinus carpio in ponds and oxbows owned by the state and managed by the directorate. Artificial nests are also erected for Black Storks and raptors.

Conservation measures proposed but not yet implemented:

The water supply of areas dried out by agricultural "amelioration" can be solved by careful planning and substantial financing. The restoration of flood plain forests is also very important. Presently, 80 % of the flood plain forests is managed for forestry, and the proportion of non-native tree species (Hybrid poplars, black walnut and American ash) is nearly 40 %. These will have to be replaced with native species while near-natural forest stands must be preserved. The replacement of hybrid poplars for native softwood forests can bring relatively quick results, as softwood species grow into trees within 10-20 years. The presently oversize game population has to be reduced.

### 5.2.5 - Management planning

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

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

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

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

A Children's Nature Education Centre is operated in the area.  
Rangers of the national park provide guided tours, and facilitate the summer practice of students.

### 5.2.6 - Planning for restoration

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

### 5.2.7 - Monitoring implemented or proposed

Genetic research of the black poplar population along the Danube.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Á, Uherkovich (eds., 1992): Wildlife of the Béda-Karapancsa Landscape Protection Area - in Hungarian, Baranya Megyei Múzeumok Igazgatósága, Pécs

J. Majer (1990): Zoological survey of Béda-Karapancsa Landscape Protection Area - in Hungarian, Janus Pannonius University, Pécs

#### 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>

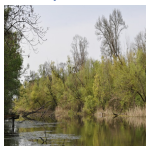
vi. other published literature

<no file available>

<no data available>

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

Please provide at least one photograph of the site:



Belső-Béda oxbow (pond 2)  
in spring ( Ms. Eva Horváth,  
Duna-Dráva National Park  
Directorate, 04-04-2014 )

#### 6.1.4 - Designation letter and related data

Designation letter

<no file available>

Date of Designation 1997-04-30