

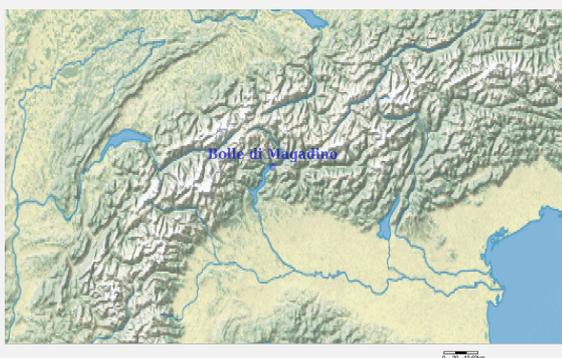


Ramsar Information Sheet

Published on 29 March 2017

Update version, previously published on : 1 January 2004

Switzerland Bolle di Magadino



Designation date	18 February 1982
Site number	231
Coordinates	46°09'39"N 08°52'01"E
Area	663,00 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

"Bolle di Magadino" is one of the last near-natural river estuary landscapes in Switzerland. The site covers an area of 663 ha encompassing the estuaries of the rivers Ticino and Verzasca into the Lake Maggiore and 3.4 km of the lake shore.

Bolle di Magadino is characterized by a natural succession of vegetation types ranging from open water to mesophile forests, including groups of aquatic plants, reed beds, wet meadows and alluvial forests. Habitats like marshes with tall sedges, Salix thickets, Alnus carr and other riverine woodlands creates an interlinked mosaic of a remarkable habitat richness of high biodiversity and landscape value.

Bolle di Magadino is home to an impressive number of rare and endangered species including certain species that in Switzerland are present in the canton Ticino only. The site harbors 54 plant and 154 animal species listed on the red lists of endangered species in Switzerland. An additional 25 plant and 87 animal species are protected at the European level. The site is an important breeding area for many species of waterbirds as well as significant stop over and/or wintering ground for waterfowl.

Despite its near-natural state, the site Bolle di Magadino is influenced by human activities including nature conservation, forestry, agriculture, tourism, industry, and a civil and military airport. The surrounding areas are characterized by intensively cultivated land and urban zones.

The Fondazione Bolle di Magadino is in charge of the management of the site and responsible for the implementation of projects related to species conservation and habitat restoration (www.bolledimagadino.com).

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Dr. Reinhard Schnidrig
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2.1.2 - Period of collection of data and information used to compile the RIS

From year

To year

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary Yes No

(Update) B. Changes to Site area No change to area

2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS? Yes (likely)

(Update) Are the changes Positive Negative Positive & Negative

(Update) Positive %

(Update) No information available

(Update) Changes resulting from causes operating within the existing boundaries?

(Update) Changes resulting from causes operating beyond the site's boundaries?

(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?

(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?

(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.

At the end of 2009 the renaturation of the Ticino delta was completed. The project organized by the "Bolle di Magadino" Foundation included the decommissioning the silos and stopping river beds dredging.

(Update) Is the change in ecological character negative, human-induced AND a significant change (above the limit of acceptable change) Yes

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image
<3 file(s) uploaded>

Former maps

2.2.2 - General location

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

b) What is the nearest town or population centre?

2.2.3 - For wetlands on national boundaries only

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

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

2.2.4 - Area of the Site

Official area, in hectares (ha):

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

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
Freshwater Ecoregions of the World (FEOW)	Central & Western Europe
Other scheme (provide name below)	Southern Alps (sub-division: southern Ticino)

Other biogeographic regionalisation scheme

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

Unique in the appropriate biogeographic region: Lacustrine delta of two rivers in almost natural state with a very diverse mosaic of habitats. Wetlands at low altitude on the valley bottom such as Bolle di Magadino are rare on the southern slopes of the Alps and and represent a good example of wetlands of transition between alpine water courses and the lake.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification

At national level, the watercourses on the site are classified as "watercourse section with high biodiversity and / or national priority species".
Importance of the site as reservoir of biodiversity at the biogeographic level: Presence of rare / threatened / endangered species; some of which are classified as extinct in Switzerland or in the appropriate biogeographic region (red lists) - solely remaining in the reserve.

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

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

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Allium angulosum</i> 	Mouse garlic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
<i>Alopecurus aequalis</i> 	Shortawn Foxtail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
<i>Alopecurus geniculatus</i> 	Marsh Foxtail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
<i>Archidium alternifolium</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Bryophytes 2004)	
<i>Bryum versicolor</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Bryophytes 2004)	
<i>Cardamine pratensis matthioli</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
<i>Carex pseudocyperus</i> 	Cyperus-like Sedge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
<i>Centaurea margaritacea</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
<i>Centaurium pulchellum</i> 	Branched Centaury	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Cyperus fuscus</i>	Brown Flatsedge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Cyperus glomeratus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Cyperus longus</i>	Sweet Cyperus	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Cyperus michelianus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	RE (National Red List Ferns and Flowering Plants 2002)	
 <i>Deschampsia cespitosa cespitosa</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Dysphania botrys</i>	Jerusalem Oak Goosefoot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Elatine hydropiper</i>	Eight-stamen Waterwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Eleocharis acicularis</i>	Needle Spikerush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Eleocharis ovata</i>	Oval Spikerush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Gratiola officinalis</i>	Hedge Hyssop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Gypsophila muralis</i>	Annual Gypsophila	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Inula britannica</i>	Meadow Fleabane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Isoetes setacea setacea</i>	Isoète à spores hérissées	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	RE (National Red List Ferns and Flowering Plants 2002)	
 <i>Isoetes setacea</i>	Bristleleaf Bulrush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Laphangium luteoalbum</i>	Jersey Cudweed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Leersia oryzoides</i>	Rice Cutgrass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Lindernia procumbens</i>	Prostrate False Pimpernel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	RE (National Red List Ferns and Flowering Plants 2002)	
 <i>Littorella uniflora</i>	American Shoreweed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Ludwigia palustris</i>	Marsh Seedbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Marsilea quadrifolia</i>	Four Leaf Clover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Microphyrum tenellum</i>	Gravel Fescue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Montia fontana</i>	Blinks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Najas marina</i>	Spiny Water Nymph	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Nymphoides peltata</i>	Fringed Water Lily	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Oenanthe peucedanifolia</i>	Sulphurwort Water Dropwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Ophioglossum vulgatum</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Orthotrichum microcarpum</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	
 <i>Osmunda regalis</i>	Royal Fern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Pycreus flavescens</i>	Souchet jaunâtre	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Ranunculus circinatus</i>	Fan Leaf Water Crowfoot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Ranunculus reptans</i>	Creeping Spearwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Ranunculus sceleratus</i>	Cursed Buttercup	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Rorippa amphibia</i>	Great Yellowcress	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Sagina apetala</i>	Annual Pearlwort	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Schoenoplectus triquetus</i>	Triangular Club-Rush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	CR (National Red List Ferns and Flowering Plants 2002)	
 <i>Silene baccifera</i>	Cucubale à baies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Sparganium erectum neglectum</i>	Branched Bur-reed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Syntrichia pagorum</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	

Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
 <i>Trifolium patens</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Typha minima</i>	Dwarf Bulrush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Verbascum pulverulentum</i>	Hoary Mullein	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Veronica scutellata</i>	Skullcap Speedwell	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Vicia lathyroides</i>	Spring Vetch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	EN (National Red List Ferns and Flowering Plants 2002)	
 <i>Zannichellia palustris</i>	Horned Pondweed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	VU (National Red List Ferns and Flowering Plants 2002)	
 <i>Zygodon rupestris</i>	Park Yoke-moss	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	VU (National Red List Bryophytes 2004)	

The site harbours many species figuring on the national red list macrofungi 2007. A list of these species is added to chapter 6.1.2.

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 ¹⁾	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
Birds																		
CHORDATA/AVES	 <i>Actitis hypoleucos</i>	Common Sandpiper	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	Stopover site for migratory birds
CHORDATA/AVES	 <i>Alcedo atthis</i>	Common Kingfisher	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Anas clypeata</i>	Northern Shoveler	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Anas crecca</i>	Eurasian Teal	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Anas querquedula</i>	Garganey	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	overwintering species
CHORDATA/AVES	 <i>Anas strepera</i>	Gadwall	<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"/>	5	2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	overwintering species
CHORDATA/AVES	 <i>Anthus campestris</i>	Tawny Pipit	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Anthus pratensis</i>	Meadow Pipit	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Apus pallidus</i>	Pallid Swift	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Aquila chrysaetos</i>	Golden 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"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Athene noctua</i>	Little Owl	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Aythya ferina</i>	Common Pochard	<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"/>	33	2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	overwintering species
CHORDATA/AVES	 <i>Aythya fuligula</i>	Tufted Duck	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Bucephala clangula</i>	Common Goldeneye	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	overwintering species
CHORDATA/AVES	 <i>Caprimulgus europaeus</i>	European Nightjar	<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"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Carpodacus erythrinus</i>	Common Rosefinch	<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"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Cettia cetti</i>	Cetti's Warbler	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Charadrius dubius</i>	Little Ringed Plover	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Chroicocephalus ridibundus</i>	Black-headed 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"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Ciconia ciconia</i>	White Stork	<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"/>		2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Circus aeruginosus</i>	Western Marsh Harrier	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Circus pygargus</i>	Montagu's Harrier	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Corvus monedula</i>	Western Jackdaw	<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"/>		2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Emberiza calandra</i>	Corn Bunting	<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"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Emberiza hortulana</i>	Otolan Bunting	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Emberiza schoeniclus</i>	Common Reed Bunting	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Ficedula albicollis</i>	Collared Flycatcher	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	 <i>Gallinago gallinago</i>	Common Snipe	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	Stopover site for migratory birds
CHORDATA/AVES	 <i>Hippolais icterina</i>	Icterine Warbler	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	Stopover site for migratory birds
CHORDATA/AVES	 <i>Ichthyaetus 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"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Lanius excubitor</i> 	Great Grey Shrike	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	RE (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Lanius senator</i> 	Woodchat Shrike	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Larus canus</i> 	Mew Gull	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Lullula arborea</i> 	Woodlark	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Luscinia svecica</i> 	Bluethroat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2013		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Mergus merganser</i> 	Common Merganser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Mergus serrator</i> 	Red-breasted Merganser	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2010		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Merops apiaster</i> 	European Bee-eater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Numenius arquata</i> 	Eurasian Curlew	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2013		NT 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Nycticorax nycticorax</i> 	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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Otus scops</i> 	Eurasian Scops Owl	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Pandion haliaetus</i> 	Osprey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	RE (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Phylloscopus sibilatrix</i> 	Wood Warbler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Phylloscopus trochilus</i> 	Willow Warbler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Podiceps nigricollis</i> 	Black-necked Grebe; Eared Grebe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	overwintering species
CHORDATA/AVES	<i>Porzana parva</i> 	Little Crake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Porzana porzana</i> 	Spotted Crake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Remiz pendulinus</i> 	Eurasian Penduline Tit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/AVES	<i>Riparia riparia riparia</i> 	Sand martin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	Stopover site for migratory birds
CHORDATA/AVES	<i>Saxicola rubetra</i> 	Whinchat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	Stopover site for migratory birds
CHORDATA/AVES	<i>Scolopax rusticola</i> 	Eurasian Woodcock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	

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			2	4	6	9	3	5	7	8								
CHORDATA/ AVES	<i>Somateria mollissima</i> 	Common Eider	<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"/>		2007		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Tadorna tadorna</i> 	Common Shelduck	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Tringa totanus</i> 	Common Redshank	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	RE (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Turdus pilaris</i> 	Fieldfare	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Turdus torquatus</i> 	Ring Ouzel	<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"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Upupa epops</i> 	Common Hoopoe	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Breeding Birds 2010)	
CHORDATA/ AVES	<i>Vanellus vanellus</i> 	Northern Lapwing	<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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Breeding Birds 2010)	
Fish, Mollusc and Crustacea																		
CHORDATA/ ACTINOPTERYGII	<i>Alburnus arborella</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"/>		1996			<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Anguilla anguilla</i> 	Common Eel	<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"/>		2009		CR 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
MOLLUSCA/ BIVALVIA	<i>Anodonta anatina</i> 	Duck Mussel	<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"/>		2003		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Molluscs 2012)	
CHORDATA/ ACTINOPTERYGII	<i>Barbus caninus</i> 	Brook Barbel	<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"/>		1985		EN 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Barbus plebejus</i> 	Italian Barbel	<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"/>		1993		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Chondrostoma soetta</i> 	Italian Nase	<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"/>		1993		EN 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Fish and Cyclostomes 2007)	
MOLLUSCA/ GASTROPODA	<i>Gyraulus laevis</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"/>		1980		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Molluscs 2012)	
CHORDATA/ ACTINOPTERYGII	<i>Padogobius bonelli</i> 	Common Goby	<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"/>		2009		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Fish and Cyclostomes 2007)	
MOLLUSCA/ BIVALVIA	<i>Pisidium liljeborgii</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"/>		2003			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Molluscs 2012)	
CHORDATA/ ACTINOPTERYGII	<i>Rhodeus amarus</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"/>		2009		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Rutilus pigus</i> 	Danube Roach	<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"/>		1993		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Telestes muticellus</i> 	Italian Riffle Dace	<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"/>		2009		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
CHORDATA/ ACTINOPTERYGII	<i>Thymallus thymallus</i> 	European Grayling	<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"/>		1985			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Fish and Cyclostomes 2007)	
MOLLUSCA/ BIVALVIA	<i>Unio mancus</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"/>		2005		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Molluscs 2012)	

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			2	4	6	9	3	5	7	8									
Others																			
ARTHROPODA/ INSECTA	<i>Acupalpus maculatus</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"/>		2002			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Aegosome scabricorne</i> 	Grain Support 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"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Agabus paludosus</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"/>		1981			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Agonum gracile</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"/>		1987			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Agonum hypocrita</i> 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1993			<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Ground Beetles and Tiger Beetles 2016)	Priority cons. CH: 2. Data and new red list status in Walter et al, 2016 (Boll. Soc. Ent. Suisse, 89:147-160.)
ARTHROPODA/ INSECTA	<i>Aiolopus thalassinus</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"/>		2012			<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Orthoptera 2007)	
ARTHROPODA/ INSECTA	<i>Amara apricaria</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"/>		1988			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Andrena barbilabris</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"/>		1986			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Apatura ilia</i> 	Lesser Purple Emperor	<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"/>		2012			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Butterflies and Burnet Moths 2014)	
ARTHROPODA/ INSECTA	<i>Badister dilatatus</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"/>		2000			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Bembidion foraminosum</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"/>		2010			<input type="checkbox"/>	<input type="checkbox"/>	Endangered (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Bembidion striatum</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"/>		1974			<input type="checkbox"/>	<input type="checkbox"/>	Endangered (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Bombus humilis</i> 	Brown-banded Carder Bee	<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"/>		1995			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
CHORDATA/ AMPHIBIA	<i>Bufo bufo</i> 	Common 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"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Amphibians 2005)	
ARTHROPODA/ INSECTA	<i>Chlaenius tristis tristis</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"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Conocephalus fuscus</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"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Orthoptera 2007)	
CHORDATA/ MAMMALIA	<i>Crocidura suaveolens</i> 	Lesser White-toothed Shrew	<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"/>		1994		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
ARTHROPODA/ INSECTA	<i>Cylindera germanica</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"/>		1967			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Dasypoda altercator</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"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
ARTHROPODA/ INSECTA	<i>Dyschirius abditus</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"/>	1988		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Dyschirius angustatus</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"/>	1988		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Dyschirius intermedius</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"/>	2002		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
CHORDATA/ REPTILIA	<i>Emys orbicularis galloitalica</i> 	European Pond Turtle	<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"/>	2006		<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Reptiles 2005)	
CHORDATA/ MAMMALIA	<i>Eptesicus nilssonii</i> 	Northern 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"/>	2000		<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Bats 2013)	
CHORDATA/ MAMMALIA	<i>Eptesicus serotinus</i> 	Serotine 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"/>	2009		<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Bats 2013)	
ARTHROPODA/ INSECTA	<i>Graphoderus cinereus</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"/>	1981		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Graptodytes pictus</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"/>	1981		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Habrophlebia eldæ</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"/>	2003		<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	
ARTHROPODA/ INSECTA	<i>Halictus sexcinctus</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"/>	2013		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Halictus subauratus</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"/>	2013		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Harpalus smaragdinus</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"/>	2005		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Heriades crenulatus</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"/>	1989		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Heteropterus morpheus</i> 	Large Chequered Skipper	<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"/>	1993		<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Butterflies and Burnet Moths 2014)	
CHORDATA/ REPTILIA	<i>Hierophis viridiflavus</i> 	Green Whip 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"/>	2014		<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Reptiles 2005)	
ARTHROPODA/ INSECTA	<i>Hydroporus angustatus</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"/>	1981		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Hydroporus marginatus</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"/>	1981		<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
CHORDATA/ AMPHIBIA	<i>Hyla intermedia</i> 	Italian 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"/>	<input type="checkbox"/>	2011		<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Amphibians 2005)	
ARTHROPODA/ INSECTA	<i>Isoperla orobica</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"/>	2003		<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Orthoptera 2007)	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ARTHROPODA/ INSECTA	<i>Laccophilus poecilus</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"/>		1980			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
CHORDATA/ REPTILIA	<i>Lacerta bilineata</i> 	Western Green Lizard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Reptiles 2005)	
ARTHROPODA/ INSECTA	<i>Lamia textor</i> 	Weaver 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"/>		1978			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Lasioglossum discum</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"/>		1989			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Lasioglossum sexstrigatum</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"/>		1986			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
CHORDATA/ MAMMALIA	<i>Lepus europaeus</i> 	European Hare	<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"/>		1991		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
ARTHROPODA/ INSECTA	<i>Limnephilus flavospinosus</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"/>		1986			<input type="checkbox"/>	<input type="checkbox"/>	EN (Red List Mayflies, Stoneflies and Caddisflies 2012)	
ARTHROPODA/ INSECTA	<i>Limnephilus helveticus</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"/>		1981			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	
ARTHROPODA/ INSECTA	<i>Locusta cinerascens</i> 	Migratory Locust	<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"/>		2012			<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Orthoptera 2007)	
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"/>		1975			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
CHORDATA/ MAMMALIA	<i>Muscardinus avellanarius</i> 	Common Dormouse	<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"/>		2007		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
CHORDATA/ MAMMALIA	<i>Mustela nivalis</i> 	Least Weasel	<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"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
CHORDATA/ MAMMALIA	<i>Myotis brandti</i> 	Brandt'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"/>		2001			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Bats 2013)	
CHORDATA/ MAMMALIA	<i>Myotis emarginatus</i> 	Geoffroy'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"/>		1987		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (Red List Bats 2013)	
CHORDATA/ REPTILIA	<i>Natrix natrix</i> 	European 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"/>		2014			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Reptiles 2005)	
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"/>		2014		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Reptiles 2005)	
CHORDATA/ MAMMALIA	<i>Neomys anomalus</i> 	Mediterranean WaterShrew	<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"/>		1994		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
ARTHROPODA/ INSECTA	<i>Nomada flavopicta</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"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	<i>Nymphalis antiopa</i> 	Camberwell Beauty	<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"/>		2011			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Butterflies and Burnet Moths 2014)	
ARTHROPODA/ INSECTA	<i>Odacantha melanura</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"/>		1987			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Oecetis furva</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"/>		1981			<input type="checkbox"/>	<input type="checkbox"/>	VU (Red List Mayflies, Stoneflies and Caddisflies 2012)	

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
ARTHROPODA/ INSECTA	 <i>Onychogomphus forcipatus unguiculatus</i>	Small Pincertail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2010			<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Dragonflies 2002)	
ARTHROPODA/ INSECTA	 <i>Oodes helopioides helopioides</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	 <i>Ophonus stictus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1998			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	 <i>Oreodytes septentrionalis</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1980			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	 <i>Orthemum albistylum</i>	White-Tailed Skimmer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Dragonflies 2002)	
ARTHROPODA/ INSECTA	 <i>Panurgus calcaratus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2000			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	 <i>Phaneroptera falcata</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2004			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Orthoptera 2007)	
ARTHROPODA/ INSECTA	 <i>Pseudophilotes baton</i>	Baton Blue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1992			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Butterflies and Burnet Moths 2014)	
ARTHROPODA/ INSECTA	 <i>Pteronemobius heydenii heydenii</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2013			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Orthoptera 2007)	
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"/>		2012		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Amphibians 2005)	
CHORDATA/ MAMMALIA	 <i>Rattus rattus</i>	Black Rat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1988		LC 	<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Mammals 1994)	
CHORDATA/ MAMMALIA	 <i>Rhinolophus ferrumequinum</i>	Greater Horseshoe Bat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2010		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (Red List Bats 2013)	
CHORDATA/ MAMMALIA	 <i>Rhinolophus hipposideros</i>	Lesser Horseshoe Bat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1970		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (Red List Bats 2013)	
CHORDATA/ AMPHIBIA	 <i>Salamandra salamandra</i>	Fire Salamander	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2003		LC 	<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Amphibians 2005)	
ARTHROPODA/ INSECTA	 <i>Sphecodes reticulatus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1995			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)	
ARTHROPODA/ INSECTA	 <i>Stictotarsus duodecimimpustulatus</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1980			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Strangalia attenuata</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2009			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Ground Beetles and Tiger Beetles 1994)	
ARTHROPODA/ INSECTA	<i>Sympetrum depressiusculum</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1998			<input type="checkbox"/>	<input type="checkbox"/>	VU (National Red List Dragonflies 2002)	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
ARTHROPODA/ INSECTA	<i>Sympetrum pedemontanum</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1952		LC 	<input type="checkbox"/>	<input type="checkbox"/>	CR (National Red List Dragonflies 2002)		
CHORDATA/ AMPHIBIA	<i>Triturus carnifex</i> 	Alpine Warty Newt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		2011		LC 	<input type="checkbox"/>	<input type="checkbox"/>	EN (National Red List Amphibians 2005)		
ARTHROPODA/ INSECTA	<i>Xylocopa valga</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1986			<input type="checkbox"/>	<input type="checkbox"/>	Vulnerable (National Red List Bees 1994)		

1) Percentage of the total biogeographic population at the site

The site has an important function as a stopover site for migratory birds on the southern border of the Alps, especially in spring when adverse weather conditions prevent the birds continue their migration towards north, crossing the Alps (high percentage of recapture of ringed birds). Such stopover sites for migrating are rare in the region. Priority migratory species for the site are the following (censuses Fondazione Bolle di Magadino): Whinchat (*Saxicola rubetra*), Common Grasshopper Warbler (*Locustella naevia*), Icterine Warbler (*Hippolais icterina*), Sand Martin (*Riparia riparia*), Common Snipe (*Gallinago gallinago*), and Common Sandpiper (*Actitis hypoleucos*). Priority hibernating species for the site (censuses of Fondazione Bolle di Magadino) are: Black-necked Grebe (*Podiceps nigricolis*), Gadwall (*Anas strepera*), Garganey (*Anas querquedula*), Common Pochard (*Aythya ferina*), Common Goldeneye (*Bucephala clangula*), Eurasian Bittern (*Botaurus stellaris*).

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
Fens	<input checked="" type="checkbox"/>	Fens are in sharp decline. They are composed of rare ecological communities such as Magnocaricion, Cladietum and Caricion and are home to highly-adapted symbiotic communities of plants and animals that include a large number of endangered species.	Site listed in the federal inventory of fenlands of national importance
Alluvial zones	<input checked="" type="checkbox"/>	Alluvial zones are dynamic habitats where rivers and lakes overflow, submerging dry areas, destroying existing habitats and creating new ones. These dynamic processes are responsible for its extraordinary diversity of species and habitats.	Site listed in the federal inventory of alluvial zones of national importance
Marshy zone	<input checked="" type="checkbox"/>	The delta of the Ticino river is a marshy zone composed of rare ecological communities such as reed beds and sedge beds, marshes of large sedges and small sedges, wet grasslands. These communities are home to a large number of threatened species.	Site listed in the federal inventory of Mire Landscapes of Particular Beauty and National Importance
Ponds	<input checked="" type="checkbox"/>	A system of ponds has developed within the marshy belt of the lake. These ponds provide an important habitat for threatened species of amphibians.	Site listed in the federal inventory of amphibian spawning areas of national importance
Littoral shores (Littorelion) and ephemeral pioneer wet communities (Nanocyperion)	<input checked="" type="checkbox"/>	Lake Verbano has large level changes. In times of drought the sandy coasts and "oxbow lakes" dry up, hosting rare pioneer and amphibious vegetation.	Site listed in the federal inventory of alluvial zones of national importance

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

4.1 - Ecological character

The main habitat types present are: open water with shallow areas, sandbanks and gravel, delta, rivers and canals, backwaters, ponds, fens, wet meadows, alluvial forests of hardwood and softwood, mesophilic hardwood forests.

The main plant communities are of a characteristic type for the marshy belt on the edges of freshwater lakes:

Aquatic groups, groups of ephemeral pioneers (Nanocyperion, Littorellion), reed beds, groups of cattails (*Typha* sp.) and of rushes coopers (*Schoenoplectus lacustris*), marsh of large sedges, wet transition meadows, (*Megaphorbiaies/Hochstaudenflur*), grasslands of alluvial plains on gravel and sand, plain willow, transition ripisylves lakes and slow streams, mesophilic hardwood forest.

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 >> L: Permanent inland deltas	Verzasca, Ticino	1		Unique
Fresh water > Flowing water >> M: Permanent rivers/ streams/ creeks		2		
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		3		
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		3		
Fresh water > Marshes on inorganic soils >> W: Shrub-dominated wetlands		4		
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		4		

Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
9: Canals and drainage channels or ditches		4		

4.3 - Biological components

4.3.1 - Plant species

Other noteworthy plant species

Scientific name	Common name	Position in range / endemism / other
<i>Thalictrum lucidum</i>	Shining Meadow Rue	High Priority Species (National Priority List 2011)

Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
<i>Abutilon theophrasti</i>	China Jute	Actually (major impacts)	unknown
<i>Ambrosia artemisiifolia</i>	Common Ragweed	Actually (major impacts)	unknown
<i>Amorpha fruticosa</i>	Bastard Indigobush	Actually (major impacts)	unknown
<i>Asclepias syriaca</i>	Common Milkweed	Actually (major impacts)	unknown
<i>Aster lanceolatus</i>		Actually (major impacts)	increase
<i>Buddleja davidii</i>	Butterfly Bush	Actually (major impacts)	unknown
<i>Cyperus esculentus</i>	Tiger Nut Sedge	Actually (major impacts)	unknown
<i>Erigeron annuus</i>	Annual Fleabane	Actually (major impacts)	unknown
<i>Fallopia japonica japonica</i>	Asiatic Knotweed	Actually (major impacts)	unknown
<i>Impatiens balfourii</i>	Kashmir Balsam	Actually (minor impacts)	unknown
<i>Impatiens glandulifera</i>	Himalayan Balsam	Actually (major impacts)	unknown
<i>Lonicera japonica</i>	Japanese Honeysuckle	Actually (major impacts)	unknown
<i>Phytolacca americana</i>	American Pokeweed	Actually (minor impacts)	unknown
<i>Prunus laurocerasus</i>	Cherry Laurel	Actually (major impacts)	unknown
<i>Robinia pseudacacia</i>	Robinia	Actually (major impacts)	unknown
<i>Solidago canadensis</i>	Canadian Goldenrod	Actually (major impacts)	unknown
<i>Solidago gigantea</i>	Giant Goldenrod	Actually (major impacts)	unknown
<i>Symphoricarum novi-belgii</i>	New York Aster	Actually (minor impacts)	unknown
<i>Trachycarpus fortunei</i>	Chinese Windmill Palm	Actually (major impacts)	unknown

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	<i>Acrocephalus arundinaceus</i>	Great Reed Warbler		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Alauda arvensis</i>	Eurasian Skylark		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Apus apus</i>	Common Swift		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Apus melba</i>	Alpine Swift		2013		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Asio otus</i>	Long-eared Owl		2011		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Carduelis cannabina</i>	Common Linnet		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Cuculus canorus</i>	Common Cuckoo		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Delichon urbicum</i>	Common House Martin		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Emberiza cirius</i>	Cirl Bunting		2012		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Falco peregrinus</i>	Peregrine Falcon		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	<i>Falco subbuteo</i>	Eurasian Hobby		2014		High Priority Species (List of National Priority Species 2011)

Phylum	Scientific name	Common name	Pop. size	Period of pop. est.	%occurrence	Position in range /endemism/other
CHORDATA/AVES	Falco tinnunculus	Common Kestrel		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Hippolais polyglotta	Melodious Warbler		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Jynx torquilla	Eurasian Wryneck		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Locustella luscinioides	Savi's Warbler		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Locustella naevia	Common Grasshopper Warbler		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Luscinia megarhynchos	Common Nightingale		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Milvus milvus	Red Kite		2013		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Motacilla flava	Western Yellow Wagtail		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Netta rufina	Red-crested Pochard		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Pernis apivorus	European Honey Buzzard		2013		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Phoenicurus phoenicurus	Common Redstart		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Sterna hirundo	Common Tern		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Streptopelia turtur	European Turtle Dove		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Sylvia borin	Garden Warbler		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/AVES	Sylvia communis	Common Whitethroat		2014		High Priority Species (List of National Priority Species 2011)
CHORDATA/MAMMALIA	Myotis nattereri	Natterer's Bat		1993		High Priority Species (List of National Priority Species 2011)

Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update
MOLLUSCA/BIVALVIA	Corbicula fluminea	Asian clam	Potentially	No change
CHORDATA/MAMMALIA	Myocastor coypus	Coypu; nutria	Potentially	No change
CHORDATA/REPTILIA	Trachemys ornata		Potentially	No change
CHORDATA/REPTILIA	Trachemys scripta elegans		Potentially	No change
CHORDATA/REPTILIA	Trachemys scripta scripta		Potentially	No change

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Csa: Mediterranean (Mild with dry, hot summer)

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

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

Upper Po river basin.
The site is located in the watershed of the Lago Maggiore, (area of 6'542 km2) and in those of the Ticino river (area 1'616 km2) and the river Verzasca (area of approx. 200 km2) which both originate on the south side of the Alps (Ticino Alps).

4.4.3 - Soil

Mineral

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

No available information

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

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from surface water	<input checked="" type="checkbox"/>	No change
Water inputs from rainfall	<input checked="" type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels fluctuating (including tidal)	No change

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

The Lago Maggiore is permanent with a maximum depth of 370 m. However, within the site, there are shallow areas. The Lago Maggiore is artificially regulated in Sesto Calende (Italy) since 1943. The water level of the lake is little lower in summer (regulation for agricultural and hydroelectric purposes) with no risk of drying out the lake or the rivers Verzasca and Ticino. Since 2014 a modified control regime is applied with slightly higher waterlevels in spring and summer (+0.5m).

(EOD) Connectivity of surface waters and of groundwater

4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

The site was born from straying from the river Ticino in the Magadino plain and its mouth, as well as that of the Verzasca river in the Lake Maggiore. Ticino deposited fine materials on which have developed wetlands, alluvial and shallow delta. Verzasca sedimented coarser materials forming gravel banks in the delta.

(EOD) Water temperature

4.4.6 - Water pH

Alkaline (pH>7.4)

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

Unknown

Please provide further information on pH (optional):

The pH varies between 7.4 and 7.5.

4.4.7 - Water salinity

Fresh (<0.5 g/l)

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

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Mesotrophic

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

Oligotrophic

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

Unknown

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

The water quality of Lake Maggiore is quite good (meso-oligotrophic). There are problems with some organic substances. The water quality of the river Ticino and drainage channels is average due to the contribution of organic and chemical substances from agriculture, roads and highway and industry, present on the Magadino Plain. These substances are washed out and come to the Bolle di Magadino by rivers and drainage channels of the Magadino plain.

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

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

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

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

The Locarno airport is situated in immediate vicinity of the Ramsar site. The airport is in operation since 75 years and used by the Confederation for military pilot training on the one hand and by civil aviation on the other. The airport infrastructure needs to be adjusted to new requirements. To this purpose the Federal Council adopted a revised Sectoral Plan for Aviation Infrastructure that foresees an extension of the runway by 170 m. The planned extension of the runway has no impact on the perimeter of the site 'Bolle di Magadino' itself. However, an extended runway may lead to changes in operation of the airport, specifically an increase of private jets, and therewith may cause conflicts with the Ramsar site. The coexistence between the natural reserve and airport activities is threatened for the first time after 50 years.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Wetland non-food products	Timber	Low
Wetland non-food products	Livestock fodder	Low

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Storage and delivery of water as part of water supply systems for agriculture and industry	Low
Maintenance of hydrological regimes	Groundwater recharge and discharge	Low
Hazard reduction	Flood control, flood storage	Low

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Low
Recreation and tourism	Nature observation and nature-based tourism	High
Spiritual and inspirational	Aesthetic and sense of place values	Low
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	Medium
Scientific and educational	Major scientific study site	Low
Scientific and educational	Educational activities and opportunities	Low

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	High
Soil formation	Sediment retention	High

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

4.5.2 - Social and cultural values

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

RIS for Site no. 231, Bolle di Magadino, Switzerland

- ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
- iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
- iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

4.6 - Ecological processes

(ECD) Notable species interactions, including grazing, predation, competition, diseases and pathogens

Since 25 years, the mosquito populations of *Aedes vexans* and *A. sticticus* are controlled using Bti. Bolle di Magadino is a sentinel area for incoming viruses.

(ECD) Notable aspects concerning migration

Important biomass production in terms of insects as food for migratory species.

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 type="checkbox"/>
Provincial/region/state 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
Foundation/non-governmental organization/trust	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

5.1.2 - Management authority

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

Ufficio della natura e del paesaggio
Via Franco Zorzi 13
6500 Bellinzona
tel. +41 91 814 25 92
fax +41 91 814 25 99

Fondazione Bolle di Magadino
vicolo Forte Olimpo 3
6573 Magadino
tel. +41 (0)91 795 31 15
e-Mail: fbm@bluewin.ch
http://www.bolledimagadino.com/

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

Nicola Patocchi (director of the council of the Fondazione Bolle di Magadino)

Postal address:

Fondazione Bolle di Magadino
vicolo Forte Olimpo 3
6573 Magadino
tel. +41 (0)91 795 31 15

E-mail address:

fbm@bluewin.ch

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
Commercial and industrial areas			<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Tourism and recreation areas	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Canalisation and river regulation	Low impact	Low impact	<input checked="" type="checkbox"/>	decrease	<input checked="" type="checkbox"/>	No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Annual and perennial non-timber crops	Medium impact	Medium impact	<input checked="" type="checkbox"/>	decrease	<input checked="" type="checkbox"/>	No change
Livestock farming and ranching	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Mining and quarrying	Low impact	Low impact	<input checked="" type="checkbox"/>	decrease	<input type="checkbox"/>	No change
Renewable energy	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Roads and railroads	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Aircraft flight paths			<input checked="" type="checkbox"/>		<input 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	Low impact	Low impact	<input checked="" type="checkbox"/>	decrease	<input checked="" type="checkbox"/>	decrease

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Low impact	Low impact	<input checked="" type="checkbox"/>	decrease	<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
Vegetation clearance/land conversion			<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Dams and water management/use	Low impact	Low impact	<input checked="" type="checkbox"/>	increase	<input checked="" type="checkbox"/>	increase

Invasive and other problematic species and genes

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

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Household sewage, urban waste water			<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Industrial and military effluents			<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Agricultural and forestry effluents	Low impact	Low impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	unknown

Please describe any other threats (optional):

To reduce the risk of bird-strike, especially with little jets, bird-control measures are applied within the site.

5.2.2 - Legal conservation status

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Federal Inventory of Mire Landscapes of Particular Beauty and National Importance (1996, SR 451.35)	Piano di Magadino	http://www.bafu.admin.ch	partly
Federal inventory of Alluvial Zones of National Importance (1992, RS 451.31)	Bolle di Magadino	http://www.bafu.admin.ch	partly
Federal inventory of Amphibian Spawning Areas of National Importance (2001, RS 451.34)	Bolle di Magadino	http://www.bafu.admin.ch	partly
Federal inventory of Fenlands of National Importance (1994, RS 451.33)	Bograsso / Bolette	http://www.bafu.admin.ch	partly
Federal inventory of Landscape and Natural Monuments of National Importance (1977, SR 451.11)	Delta del Ticino e della Verzasca	http://www.bafu.admin.ch	whole
Federal reserve for Waterbirds and Migratory Birds of International and National Importance (1991, RS 922.32)	Bolle di Magadino (TI)	http://www.bafu.admin.ch	partly
Protected area (Cantonal level)	Bolle di Magadino	http://www4.ti.ch/	partly

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	CH029 Bolle di Magadino	http://www.birdlife.ch	partly
Other non-statutory designation	Emerald site no. CH0000012 Piano di Magadino	http://www.bafu.admin.ch	partly

5.2.3 - IUCN protected areas categories (2008)

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

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Habitat

Measures	Status
Habitat manipulation/enhancement	Implemented
Hydrology management/restoration	Implemented
Improvement of water quality	Proposed

Species

Measures	Status
Threatened/rare species management programmes	Implemented
Control of invasive alien animals	Implemented
Control of invasive alien plants	Implemented

Human Activities

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

Other:

Federal reserve for Waterbirds and Migratory Birds of International and National Importance (1991, RS 922.32): Extension of the perimeter (Revision 2014).
 Implemented revitalisation projects:

- The Ticino river delta renaturation project (Delta vivo) 2008 /2009, resulting in the reinstatement of a natural dynamic at the river's point of entry into Lago Maggiore. This was achieved by widening the river's right-hand inner bed in its final 800 m stretch and the formation of an artificial alluvial island. The project extended over an area of approximately 8 hectares. With the renaturation project, the exploitation of gravel and the production of cement in the delta area was stopped.
- Revitalization project and restoration in the natural reserve Bolle di Magadino to improve ecological conditions, to promote plant and animal species threatened with extinction (Acqua project, 2003-2005)
- Revitalization project of a former river branch in the northern part of the site
- Project of ecological revaluation of southern Bolle (area located directly behind the alluvial environments). 1996-2006. It includes the processing of agricultural land intensively used (corn) in hay fields, rehabilitation of oxbows.

5.2.5 - Management planning

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

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

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

URL of site-related webpage (if relevant):

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented
Plant species	Implemented
Animal species (please specify)	Implemented
Plant community	Implemented

Monitoring implemented: Evolution of the revitalised Ticino river delta (Project Delta vivo). A. Rossi-Pedruzzi et al., 2012.
 Monitoring of lichens and fungi proposed.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Reference list (pdf): See 6.1.2. vi.

A. Rossi-Pedruzzi et al.: Riserva naturale Bolle di Magadino: rinaturazione della foce del Ticino e controllo della sua evoluzione. Bollettino della Società ticinese di scienze naturali - 100, 2012, pp. 65 - 78 (ISSN 0379-1254)

Site Management: Website Fondazione Bolle di Magadino: Gestione http://www.bolledimagadino.com/index_Gestione.php

6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<1 file(s) uploaded>

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

<7 file(s) uploaded>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<1 file(s) uploaded>

vi. other published literature

<3 file(s) uploaded>

6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Central Bolle (*Fondazione Bolle di Magadino - N Patocchi*, 19-07-2014)



Central Bolle (*Fondazione Bolle di Magadino - N Patocchi*, 25-06-2014)



Southern Bolle (*Fondazione Bolle di Magadino - N Patocchi*, 28-05-2014)



Mouth of the Ticino River (*Fondazione Bolle di Magadino - I. Forini*, 11-08-2015)



Magadino backwaters (*Fondazione Bolle di Magadino - I. Forini*, 11-08-2015)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation