



# Ramsar Information Sheet

Published on 10 July 2025

## Italy

### Padule Orti-Bottagone



Designation date	21 October 2013
Site number	2571
Coordinates	42°57'56"N 10°36'04"E
Area	151,00 ha

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

The site is a valuable testimony to the historic marsh areas of the lower Val di Cornia (remnant marshes of the ancient "Lake of Piombino"), which disappeared starting from 1940 due to land reclamation. It is located along the coastal axis of central-southern Tuscany, in ecological connection with other coastal wetlands (from north to south respectively Lake and Marsh of Massaciuccoli-Macchia di Migliarino-Tenuta San Rossore, Marsh of Bolgheri, Marsh of Scarlino, Marsh of Diaccia Botrona, Marsh of Trappola-Mouth of Ombrone, Lagoon of Orbetello, Lake of Burano), along the Mediterranean flyway.

The marsh is peculiarly composed of two contiguous but hydrobiologically different wetland areas: the brackish marsh of Orti, dominated by salicornia, and the freshwater marsh of Bottagone, characterized by reed beds, open water areas, and flooded meadows. The environmental mosaic is enriched by the neighboring wetland areas Pratoni di Vignarca and Marsh of Perelli Bassi.

Despite being surrounded by industrial plants and divided into two parts by the high-traffic road connecting Piombino to Follonica, the Orti-Bottagone marsh is an important biodiversity hotspot, a reference site for floristic and animal species, particularly for aquatic birds (as well as fish, amphibians, reptiles, and insects), both during the autumn and spring migration periods, and during the nesting, molting, and wintering periods. It also serves as a preferred stopover site for accidental species. Important roosts of herons and swallows are also present.

The bird checklist includes over 230 species, including species defined as vulnerable at the global level in the IUCN List of Threatened Species and species defined as CR, EN, or VU in the Italian Red List of vertebrates.

The wetland also hosts an important contingent of the "symbol species" *Phoenicopiterus roseus*.

Due to its considerable extension and strategic position relative to other wetlands, the Orti-Bottagone marsh is one of the most important wetlands in the subsystem of coastal wetlands of Tyrrhenian Italy along the Mediterranean flyway. The value of the Orti-Bottagone wetland is also attested by its recognition as a Special Area of Conservation under the Habitats Directive 92/43/EEC and a Special Protection Area under the Birds Directive (2009/147/EEC). It is also a Regional Reserve L.R.T. 30/2015 and an Important Bird Area (IBA) by Birdlife International.

## 2 - Data & location

### 2.1 - Formal data

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

##### Responsible compiler

Institution/agency	Regione Toscana – Settore Tutela della Natura e del Mare
Postal address	Via di Novoli, 26 50127 Firenze (Italia)

##### National Ramsar Administrative Authority

Institution/agency	Ministero dell'Ambiente e della Sicurezza Energetica
Postal address	Via Cristoforo Colombo, 44 00147 Roma (Italia)

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

From year	2000
To year	2024

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Padule Orti-Bottagone
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## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps	0
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#### Boundaries description

The site is located in the coastal area of the Cornia River plain, between Piombino and Follonica. The northern part of the site is bordered by the northern boundary of the Padule Orti-Bottagone Regional Reserve, the southwest area extends to the ENEL "Torre del Sale" power plant, and the southeast area includes the Bottagone wetland and the Perelli Bassi marsh, bordered by the Fosso Acquaviva (to the east) and the Fosso Cornia (to the south). The site's boundaries are determined based on bordering roads, the hydrographic network, the delimitation of properties (both private and public), and the identification of the zoning for the Regional Nature Reserve/Contiguous Area and of the SAC (Special Area of Conservation)/SPA (Special Protection Area).

### 2.2.2 - General location

a) In which large administrative region does the site lie?	Italia, Regione Toscana, Provincia di Livorno, Comune di Piombino
b) What is the nearest town or population centre?	Piombino

### 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):	151
Area, in hectares (ha) as calculated from GIS boundaries	150.693

### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Mediterranean

### 3 - Why is the Site important?

#### 3.1 - Ramsar Criteria and their justification

☒ Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided	<p>The coastal wetland area is peculiarly composed of a brackish marsh (called "Orti") that primarily receives marine water inflows through the Fosso Cosimo (during high tide or storm surges) and modest contributions of rainwater (directly or draining from the surrounding countryside or during floods), and a freshwater marsh (called "Bottagone") which is a hydrologically isolated basin, primarily fed by meteoric waters. Both wetland areas are of relict nature.</p> <p>The entire area presents a high degree of hydraulic hazard. In situations of heavy rainfall and floods of the Cornia River, the marsh functions as a natural expansion basin.</p> <p>Due to its considerable extension and strategic position relative to other wetlands, the marsh is one of the most important in the subsystem of coastal wetlands of Tyrrhenian Italy.</p>
Other ecosystem services provided	<p>The area is of particular importance for maintaining the ecological and genetic diversity of the Mediterranean region, safeguarding habitats and floristic and faunal species.</p>
Other reasons	<p>The wetland area is a well-established entity in the field of environmental education and eco-sustainable use (guided tours for school groups and the public, birdwatching, nature photography, nature camps, an annual calendar of events for occasions such as World Wetlands Day, European Parks Day, etc.), as well as in scientific monitoring (wintering waterbird censuses IWC ISPRA, scientific ringing ISPRA, Osprey project for the installation of nest platforms in network with Regional Parks, university projects in molecular biology for the study of the migration of the common swallow, pollinator monitoring, etc.).</p>

☒ Criterion 2 : Rare species and threatened ecological communities

Optional text box to provide further information	<p>The site hosts floristic and faunal species of conservation interest at international, community, national, and regional levels, as well as Directive habitats.</p>
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☒ Criterion 3 : Biological diversity

Justification	<p>The area is of particular importance for maintaining the biological, ecological, and genetic diversity of the Mediterranean region, safeguarding habitats and floristic and faunal species. The site constitutes a biodiversity hotspot with over 230 bird species recorded</p>
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☒ Criterion 4 : Support during critical life cycle stage or in adverse conditions

Optional text box to provide further information	<p>The site is a reference point for many species of aquatic birds as a stopover area during autumn and spring migrations, during the breeding, molting, and wintering periods, and throughout the year for many resident species, as well as a stopover area for accidental species. Important roosts of herons and swallows are also present.</p>
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#### 3.2 - Plant species whose presence relates to the international importance of the site

Phylum	Scientific name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<b>Plantae</b>								
TRACHEOPHYTA / LILIOPSIDA	<i>Anacamptis palustris</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>	EN Italian Red List	Few populations in coastal lowlands in Mediterranean Bioregion.
TRACHEOPHYTA / LILIOPSIDA	<i>Epipactis palustris</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		A species that is very rare locally, associated with marsh meadow habitats
TRACHEOPHYTA / MAGNOLIOPSIDA	<i>Halimione portulacoides</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		A species that forms large grassland in the backdunes
TRACHEOPHYTA / LILIOPSIDA	<i>Juncus subulatus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		Only reporting station in Tuscany for this species (Viciani & Lombardi, 2001)
TRACHEOPHYTA / LILIOPSIDA	<i>Phragmites australis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		Species that characterises riparian habitats in structural terms
TRACHEOPHYTA / MAGNOLIOPSIDA	<i>Tamarix africana</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC	<input type="checkbox"/>		Species that characterises riparian habitats in structural terms

Rossi G., Montagnani C., Gargano D., Peruzzi L., Abeli T., Ravera S., Cogoni A., Fenu G., Magrini S., Gennai M., Foggi B., Wagensommer R.P., Venturella G., Blasi C., Raimondo F.M., Orsenigo S. (Eds.), 2013 - "Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate". Comitato Italiano IUCN e Ministero dell'Ambiente e della Tutela del Territorio e del Mare

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

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
Others																	
CHORDATA / AMPHIBIA	<i>Bufo bufo</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	
CHORDATA / MAMMALIA	<i>Canis lupus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex II and IV Habitat Directive ;	
CHORDATA / REPTILIA	<i>Emys orbicularis</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List Annex II Bern Convention; Annex 1 Birds directive Annex II and IV Habitat Directive ; Annex B LR 56/00	
CHORDATA / REPTILIA	<i>Hierophis viridiflavus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex IV Habitat Directive	
CHORDATA / REPTILIA	<i>Podarcis muralis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex IV Habitat Directive;	
CHORDATA / REPTILIA	<i>Podarcis siculus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex IV Habitat Directive;	
CHORDATA / REPTILIA	<i>Testudo hermanni</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex II-IV Habitat Directive;	
CHORDATA / AMPHIBIA	<i>Triturus carnifex</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention; Annex II-IV Habitat Directive	
Fish, Mollusc and Crustacea																	
CHORDATA / ACTINOPTERYGII	<i>Aphanius fasciatus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;; Annex II Habitat Directive; Annex B LR 56/00	Rare species in Tuscany

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
Birds																	
CHORDATA / AVES	<i>Acrocephalus melanopogon</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA / AVES	<i>Acrocephalus schoenobaenus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	CR Italian Red List	Critical life cycle phase: migration,.
CHORDATA / AVES	<i>Alauda arvensis</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List;	Critical life cycle phase: migration, nesting,
CHORDATA / AVES	<i>Alcedo atthis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA / AVES	<i>Anas crecca</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List	Critical life cycle phase: migration, nesting, overwintering
CHORDATA / AVES	<i>Anthus campestris</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA / AVES	<i>Apus pallidus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA / AVES	<i>Ardea alba</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, overwintering
CHORDATA / AVES	<i>Ardea purpurea</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting,
CHORDATA / AVES	<i>Ardeola ralloides</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting,
CHORDATA / AVES	<i>Arenaria interpres</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration
CHORDATA / AVES	<i>Asio flammeus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA / AVES	<i>Aythya ferina</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration, overwintering
CHORDATA / AVES	<i>Aythya fuligula</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration,
CHORDATA / AVES	<i>Aythya nyroca</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration,
CHORDATA / AVES	<i>Botaurus stellaris</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List;	Critical life cycle phase: migration, nesting, overwintering
CHORDATA / AVES	<i>Calandrella brachydactyla</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting
CHORDATA / AVES	<i>Calidris alba</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,
CHORDATA / AVES	<i>Calidris alpina</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, overwintering
CHORDATA / AVES	<i>Calidris ferruginea</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,
CHORDATA / AVES	<i>Calidris minuta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,
CHORDATA / AVES	<i>Calidris pugnax</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA / AVES	<i>Calidris subruficollis</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>		Accidental stopover habitat.
CHORDATA / AVES	<i>Calidris temminckii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration
CHORDATA / AVES	<i>Caprimulgus europaeus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA / AVES	<i>Carduelis carduelis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase:nesting

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Cecropis daurica</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration, nesting,
CHORDATA/AVES	<i>Charadrius alexandrinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Charadrius dubius</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Charadrius hiaticula</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA/AVES	<i>Chlidonias hybrida</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Chlidonias leucopterus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA/AVES	<i>Chlidonias niger</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Chroicocephalus genei</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Ciconia nigra</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Circaetus gallicus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Circus aeruginosus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Circus cyaneus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Circus pygargus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Clamator glandarius</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention;	Critical life cycle phase: migration, nesting,
CHORDATA/AVES	<i>Columba oenas</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List;	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Coracias garrulus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EN Italian Red List Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting,
CHORDATA/AVES	<i>Egretta garzetta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, nesting,
CHORDATA/AVES	<i>Emberiza schoeniclus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	CR Italian Red List; Annex II Bern Convention	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Erithacus rubecula</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Falco biarmicus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex 1 Birds directive	Accidental stopover habitat.
CHORDATA/AVES	<i>Falco columbarius</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Falco eleonorae</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention; Annex 1 Birds directive	Accidental stopover habitat.
CHORDATA/AVES	<i>Falco naumanni</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex II Bern Convention; Annex I Birds Directive	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Falco peregrinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Falco subbuteo</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, nesting



Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Falco tinnunculus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, nesting
CHORDATA/AVES	<i>Falco vespertinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VU Italian Red List; Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA/AVES	<i>Ficedula albicilla</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Gallinago media</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Gelochelidon nilotica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Glareola pratincola</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Grus grus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds directive	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Haematopus ostralegus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List;	Critical life cycle phase: migration
CHORDATA/AVES	<i>Himantopus himantopus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds directive	Critical life cycle phase: migration, nesting
CHORDATA/AVES	<i>Hydrocoloeus minutus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Hydroprogne caspia</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Ichthyaeus audouinii</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex I Birds directive Ixboby	Critical life cycle phase: migration
CHORDATA/AVES	<i>Ichthyaeus melanocephalus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Ixbrychus minutus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention; Annex I Birds directive Ixboby	Critical life cycle phase: migration, nesting
CHORDATA/AVES	<i>Jynx torquilla</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List;	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Lanius collurio</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Lanius minor</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex I Birds directive	Accidental stopover habitat.
CHORDATA/AVES	<i>Lanius senator</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Limosa lapponica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	Annex I Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Limosa limosa</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention; Annex I Birds Directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Linaria cannabina</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Luscinia svecica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration,
CHORDATA/AVES	<i>Mareca strepera</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Marmaronetta angustirostris</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EN Italian Red List Annex I Birds directive	Accidental stopover habitat.
CHORDATA/AVES	<i>Merops apiaster</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Milvus migrans</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex I Birds directive	Critical life cycle phase: migration,.

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Milvus milvus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Motacilla flava</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, nesting,
CHORDATA/AVES	<i>Netta rufina</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Nycticorax nycticorax</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Oenanthe oenanthe</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Oriolus oriolus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Pandion haliaetus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	CR Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Pernis apivorus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Phoenicopterus roseus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Appendix II, Bern Convention, Annex II of the SPABIO Protocol to the Barcelona Convention, Annex II, Bonn Convention, Annex I, Birds Directive	Critical life cycle stage: Migration, wintering, estivation
CHORDATA/AVES	<i>Phoenicurus ochruros</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,, overwintering
CHORDATA/AVES	<i>Phoenicurus phoenicurus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Platalea leucorodia</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration,, overwintering
CHORDATA/AVES	<i>Plegadis falcinellus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex 1 Birds directive	Critical life cycle phase: migration,.
CHORDATA/AVES	<i>Pluvialis apricaria</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Podiceps nigricollis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Recurvirostra avosetta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex 1 Birds directive	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Remiz pendulinus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Riparia riparia</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration
CHORDATA/AVES	<i>Saxicola rubetra</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA/AVES	<i>Saxicola torquatus</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	EN Italian Red List; Annex II Bern Convention;	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Serinus serinus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: nesting
CHORDATA/AVES	<i>Spatula clypeata</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention;	Critical life cycle phase: nesting
CHORDATA/AVES	<i>Spatula querquedula</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List	Critical life cycle phase: migration
CHORDATA/AVES	<i>Spinus spinus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration,
CHORDATA/AVES	<i>Sterna hirundo</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: nesting
CHORDATA/AVES	<i>Streptopelia turtur</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration

Phylum	Scientific name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
		2	4	6	9	3	5	7	8								
CHORDATA/AVES	<i>Tachymarpis melba</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration
CHORDATA/AVES	<i>Tadorna tadorna</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	VU Italian Red List; Annex II Bern Convention;	Critical life cycle phase: migration, nesting, overwintering
CHORDATA/AVES	<i>Tringa glareola</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention; Annex 1 Birds directive	Critical life cycle phase: migration
CHORDATA/AVES	<i>Tringa ochropus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention;	Critical life cycle phase: migration, overwintering
CHORDATA/AVES	<i>Tringa stagnatilis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration, nowerwintering
CHORDATA/AVES	<i>Troglodytes troglodytes</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration, nowerwintering
CHORDATA/AVES	<i>Turdus torquatus</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC	<input type="checkbox"/>	<input type="checkbox"/>	Annex II Bern Convention	Critical life cycle phase: migration

1) Percentage of the total biogeographic population at the site

Italian Red List: Rondinini, C., Battistoni, A., Teofili, C. (compilers) - 2022 "IUCN Red List of Italian Vertebrates 2022". Italian IUCN Committee and Ministry of the Environment and Energy Security.

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
1150: Coastal lagoons	<input checked="" type="checkbox"/>	Coastal aquatic environments with lentic, saline or brackish, shallow waters, characterized by significant seasonal variations in salinity and depth in relation to water inputs (marine or continental), rainfall, and temperature which affect evaporat	Listed as a priority habitat in Annex I of the Habitats Directive
1310 Annual Pioneer Vegetation of Salicornia and Other Mud and Sand Zone Species	<input checked="" type="checkbox"/>	These formations mainly consist of annual halophytic plants like Salicornia. They inhabit muddy brackish marshes and form large meadows in flooded regions or clearings amidst perennial vegetation such as Sarcocornia, Arthrocnemum, and Halocnemum	Annex I Habitat Directive
1410 Mediterranean Temporary Wet Grasslands (Juncetalia maritimi)	<input checked="" type="checkbox"/>	Mediterranean communities of halophytic and sub-halophytic plants ascribable to the order Juncetalia maritimi, which include coastal and subcoastal formations with a meadow-like appearance, generally dominated by rushes or other hygrophilous species.	Annex I Habitat Directive
1420 Mediterranean and Thermo-Atlantic Halophilous Scrub (Sarcocornetea fruticosi)	<input checked="" type="checkbox"/>	Perennial halophyte vegetation, mainly Sarcocornia and Arthrocnemum, found in Mediterranean-Atlantic regions and part of Sarcocornietea fruticosi class, thrives on clayey, hypersaline soils, enduring desiccation, providing bird nesting environment	Annex I Habitat Directive
1510* Mediterranean Salt Steppes (Limonietalia)	<input checked="" type="checkbox"/>	Halophytic grasslands characterized by perennial herbaceous species, mainly of the genus Limonium, present in coastal areas on the margins of brackish coastal depressions.	Listed as a priority habitat in Annex I of the Habitats Directive
6420 Mediterranean Wet Grasslands with Tall Herbaceous Plants of Molinio-Holoschoenion	<input type="checkbox"/>	Mediterranean rush meadows and other tall hygrophilous herbaceous formations, part of Molinio-Holoschoenion, are mostly found near coastal dunes on sandy-clayey soils but can also exist in inland wet areas that endure temporary drought phases.	Annex I Habitat Directive

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

### 4.1 - Ecological character

The site hosts various habitats of interest due to the presence of both saltwater and freshwater marshes. In the Orti area, the banks are mostly covered by vegetation belonging to *Puccinellio festuciformis*-*Sarcocornietum perennis* with dominant *Sarcocornia perennis*, while *Limbarda crithmoides* and *Elymus athericus* dominate along the channels. In the northern area, *Salsola soda* and *Atriplex portulacoides* grow within vegetation formations of *Salsoletum sodae*. In the Bottagone area, the vegetation is dominated by marsh reeds, including *Phragmites australis*, *Typha latifolia*, and *Typha angustifolia*. The diversity of habitats makes the Orti Bottagone Marsh an important biodiversity hotspot, particularly for aquatic birdlife (as well as for fish, amphibians, reptiles, and insects), during autumn and spring migrations, nesting periods, molting, and wintering, and also as a preferred stopover site for vagrant species. Significant roosts of herons and swallows are also present.

### 4.2 - What wetland type(s) are in the site?

Marine or coastal wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
J: Coastal brackish / saline lagoons		1		Representative
K: Coastal freshwater lagoons		2		Representative

### 4.3 - Biological components

#### 4.3.1 - Plant species

Other noteworthy plant species

Phylum	Scientific name	Position in range / endemism / other
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Atriplex vestita</i>	
TRACHEOPHYTA/LILIOPSIDA	<i>Elymus athericus</i>	
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Limbarda crithmoides</i>	
TRACHEOPHYTA/LILIOPSIDA	<i>Puccinellia festuciformis</i>	
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Salicornia perennis</i>	
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Salsola soda</i>	
TRACHEOPHYTA/LILIOPSIDA	<i>Typha angustifolia</i>	
TRACHEOPHYTA/LILIOPSIDA	<i>Typha latifolia</i>	

Invasive alien plant species

Phylum	Scientific name	Impacts
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Ailanthus altissima</i>	Potential
TRACHEOPHYTA/LILIOPSIDA	<i>Arundo donax</i>	Potential
TRACHEOPHYTA/MAGNOLIOPSIDA	<i>Ligustrum lucidum</i>	Potential

#### 4.3.2 - Animal species

Invasive alien animal species

Phylum	Scientific name	Impacts
CHORDATA/MAMMALIA	<i>Myocastor coypus</i>	Potential
CHORDATA/AVES	<i>Threskiornis aethiopicus</i>	Actual (minor impacts)
ARTHROPODA/MALACOSTRACA	<i>Callinectes sapidus</i>	Actual (minor impacts)
CHORDATA/ACTINOPTERYGII	<i>Gambusia holbrooki</i>	Actual (major impacts)

## 4.4 - Physical components

#### 4.4.1 - Climate

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

#### 4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

1

a) Maximum elevation above sea level (in metres)

2

- 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.

Cervia river

#### 4.4.3 - Soil

- Mineral

☐
- Organic

☐
- No available information

☒

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)?

Yes

☒

No

☐

#### 4.4.4 - Water regime

Water permanence

Presence?	
Usually seasonal, ephemeral or intermittent water present	No change

Source of water that maintains character of the site

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

Water destination

Presence?	
Feeds groundwater	No change

Stability of water regime

Presence?	
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 main factor causing sudden changes in water levels is related to the diversion of water or the closure of the sluice gate at the mouth, which allows surface water circulation between the Orti wetland and the sea. The road separating the two wetland areas keeps the freshwater from the saltwater, but it poses a significant collision risk for wildlife. Aquaculture activities produce effluents that are treated and then discharged into the channels.

(ECD) Connectivity of surface waters and of groundwater	The Orti wetland is connected to the sea via a partially artificial channel, Canale Cosimo, which is opened as needed for management purposes.
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#### 4.4.5 - Sediment regime

- Significant erosion of sediments occurs on the site

☐
- Significant accretion or deposition of sediments occurs on the site

☐
- Significant transportation of sediments occurs on or through the site

☐
- Sediment regime is highly variable, either seasonally or inter-annually

☐
- Sediment regime unknown

☒

#### 4.4.6 - Water pH

- Acid (pH<5.5)

☐

Circumneutral (pH: 5.5-7.4 ) ☐

Alkaline (pH>7.4) ☐

Unknown ☒

#### 4.4.7 - Water salinity

Fresh (<0.5 g/l) ☐

Mixohaline (brackish)/Mixosaline (0.5-30 g/l) ☐

Euhaline/Eusaline (30-40 g/l) ☐

Hyperhaline/Hypersaline (>40 g/l) ☐

Unknown ☒

#### 4.4.8 - Dissolved or suspended nutrients in water

Eutrophic ☐

Mesotrophic ☐

Oligotrophic ☐

Dystrophic ☐

Unknown ☒

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

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

Surrounding area has greater urbanisation or development ☒

Surrounding area has higher human population density ☐

Surrounding area has more intensive agricultural use ☒

Surrounding area has significantly different land cover or habitat types ☐

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

Urbanization has a significant impact on the area. Agricultural activities produce waste that is treated and then discharged into the waters. The presence of power lines is a major concern. The wells of the remaining active steel mills cause saltwater intrusion into the freshwater wetland of Bottagone.

### 4.5 - Ecosystem services

#### 4.5.1 - Ecosystem services/benefits

##### Provisioning Services

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

##### Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	High
Erosion protection	Soil, sediment and nutrient retention	Medium
Climate regulation	Local climate regulation/buffering of change	Medium
Hazard reduction	Flood control, flood storage	High

##### Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Nature observation and nature-based tourism	High
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Major scientific study site	High
Scientific and educational	Educational activities and opportunities	High

##### 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
Pollination	Support for pollinators	High

Within the site:

Outside the site:

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

#### 4.5.2 - Social and cultural values

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

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

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

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

<no data available>

#### 4.6 - Ecological processes

<no data available>



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

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

##### 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:

Tuscany Region - Nature and Sea Protection Sector

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

Ing. Gilda Ruberti

Postal address:

Via di Novoli 26 – 50127 Firenze Italia

E-mail address:

gilda.ruberti@regione.toscana.it

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

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

##### Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Housing and urban areas	Low impact	Low impact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Commercial and industrial areas	High impact	High impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tourism and recreation areas	High impact	High impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

##### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Water abstraction	Medium impact	Medium impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Salinisation	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water releases	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Canalisation and river regulation	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

##### Agriculture and aquaculture

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

##### Energy production and mining

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

##### Transportation and service corridors

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Roads and railroads	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Utility and service lines (e.g., pipelines)	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

##### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Hunting and collecting terrestrial animals	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fishing and harvesting aquatic resources	Medium impact	Medium impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Medium impact	Medium impact	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Natural system modifications

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

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Invasive non-native/ alien species	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Industrial and military effluents	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Agricultural and forestry effluents	High impact	High impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Air-borne pollutants	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Excess heat, sound, light	Medium impact	Medium impact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Climate change and severe weather

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

### 5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	ZSC-ZPS Padule Orti Bottagone		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Nature Reserve	Regional Nature Reserve Padule Orti-Bottagone	<a href="https://www.regione.toscana.it/documenti/10180/112327982/Riserva_Naturale_Regionale_Padule_Orti_Bottagone_LI.pdf/aae8c70c-79ac-04b9-0966-f7ea2879b2b4?t=1652968354631">https://www.regione.toscana.it/documenti/10180/112327982/Riserva_Naturale_Regionale_Padule_Orti_Bottagone_LI.pdf/aae8c70c-79ac-04b9-0966-f7ea2879b2b4?t=1652968354631</a>	partly

Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	IBA Important Bird Area BirdLife International IT219 Orti-Bottagone	<a href="https://datazone.birdlife.org/site/factsheet/orti-bottagone-iba-italy">https://datazone.birdlife.org/site/factsheet/orti-bottagone-iba-italy</a>	partly

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

Ia Strict Nature Reserve ☐

Ib Wilderness Area: protected area managed mainly for wilderness protection ☐

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

III Natural Monument: protected area managed mainly for conservation of specific natural features ☐

IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention ☐

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

VI Managed Resource Protected Area: protected area managed mainly ☒ for the sustainable use of natural ecosystems

## 5.2.4 - Key conservation measures

### Legal protection

Measures	Status
Legal protection	Implemented

### Habitat

Measures	Status
Catchment management initiatives/controls	Proposed
Improvement of water quality	Proposed
Habitat manipulation/enhancement	Proposed
Soil management	Proposed
Land conversion controls	Proposed
Faunal corridors/passage	Proposed

### Species

Measures	Status
Control of invasive alien plants	Proposed
Control of invasive alien animals	Proposed

### Human Activities

Measures	Status
Management of water abstraction/takes	Proposed
Harvest controls/poaching enforcement	Proposed
Communication, education, and participation and awareness activities	Implemented
Research	Implemented

### Other:

#### Current Protection Measures:

D.G.R. 454/2008 "Ministerial Decree of 17.10.2007 from the Ministry of Environment and Protection of the Territory and the Sea - Minimum uniform criteria for defining conservation measures for special areas of conservation (SAC) and special protection areas (SPA) – Implementation."

Annex A: Conservation measures valid for all SPAs

Annex B: Division of SPAs into types and related conservation measures

D.G.R. 1213/2015 "Directive 92/43/EEC 'Habitats' - Articles 4 and 6 - Approval of conservation measures for Sites of Community Importance (SCI) for their designation as Special Areas of Conservation (SAC)."

Annex A: General measures valid for all terrestrial and marine SCIs

Annex B: Site-specific measures for SCIs wholly or partly within the territory of regional and national parks

Annex C: Site-specific measures for SCIs not wholly or partly within the territory of regional and national parks

## 5.2.5 - Management planning

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

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

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

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

The site features a visitor center with a picnic area and a nature observation trail (including 3 birdwatching hides and 2 observation towers) with screened walkways and an underpass. The wetland is well-established in environmental education and sustainable use (offering guided tours for school groups and the public, birdwatching, nature photography, nature camps, and an annual calendar of events).

URL of site-related webpage (if relevant):

<https://www.regione.toscana.it/-/aree-ramsar> <https://www.regione.toscana.it/-/rete-natura-2000-in-toscana-2> <https://www.regione.toscana.it/riserve-naturali-regionali>

## 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
Water quality	Proposed
Animal species (please specify)	Proposed
Birds	Implemented

Surveys of wintering aquatic birds (IWC ISPRA), ISPRA scientific bird ringing sessions, Osprey Project, pollinating insects project.

## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

AA.VV., 2009 – Aree naturali protette toscane. Non solo conservazione: esperienze e proposte di gestione. Centro stampa Giunta Regione Toscana.

AA.VV., 2022 - Piano di Gestione della Zona Speciale di Conservazione/Zona di Protezione Speciale Padule Orti Bottagone (IT5160010). Redatto ottobre 2022 (iter d'approvazione non ancora ultimato)

Rondinini, C., Battistoni, A., Teofili, C. (compilatori), 2022 - Lista Rossa IUCN dei vertebrati italiani 2022. Comitato Italiano IUCN e Ministero dell'Ambiente e della Sicurezza Energetica

Rossi G., Montagnani C., Gargano D., Peruzzi L., Abeli T., Ravera S., Cogoni A., Fenu G., Magrini S., Gennai M., Foggi B., Wagensommer R.P., Venturella G., Blasi C., Raimondo F.M., Orsenigo S. (Eds.), 2013 - Lista Rossa della Flora Italiana. 1. Policy Species e altre specie minacciate. Comitato Italiano IUCN e Ministero dell'Ambiente e della Tutela del Territorio e del Mare

Rossi G., Orsenigo S., Gargano D., Montagnani C., Peruzzi L., Fenu G., Abeli T., Alessandrini A., Astuti G., Bacchetta G., Bartolucci F., Bernardo L., Bovio M., Brullo S., Carta A., Castello M., Cogoni D., Conti F., Domina G., Foggi B., Gennai M., Gigante D., Iberite M., Lasen C., Magrini S., Nicoletta G., Pinna M.S., Poggio L., Prosser F., Santangelo A., Selvaggi A., Stinca A., Tartaglini N., Troia A., Villani M.C., Wagensommer R.P., Wilhalm T., Blasi C., 2020 - Lista Rossa della Flora Italiana. 2 Endemiti e altre specie minacciate. Ministero dell'Ambiente e della Tutela del Territorio e del Mare

Tomei P.E., Guazzi E., Kugler P.C., 2001 – Le zone umide della Toscana. Indagine sulle componenti floristiche e vegetazionali. Regione Toscana, Firenze.

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Sitografia:  
<https://www.iucnredlist.org/>  
<https://www.iucn.it/liste-rosse-italia-ne.php>  
<https://www.mase.gov.it/pagina/liste-rosse-nazionali>  
<https://cites.org/eng/app/appendices.php>  
<https://cms.int/en/species/appendix-i-ii-cms>  
<https://www.coe.int/en/web/bern-convention>  
<https://www.mase.gov.it/pagina/direttiva-uccelli>  
<https://www.mase.gov.it/pagina/direttiva-habitat>  
<https://raccoltanormativa.consiglio.regione.toscana.it/articolo?urndoc=urn:nir:regione.toscana:legge:2015-03-19:30>  
<https://datazone.birdlife.org/site/factsheet/orti-bottagone-iba-italy>  
<http://vnr.unipg.it/habitat/index.jsp>  
<https://dryades.units.it/floritaly/index.php>

#### 6.1.2 - Additional reports and documents

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

<4 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

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

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

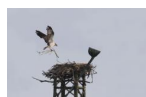
Please provide at least one photograph of the site:



Orti Marsh with roadside observatory of the Geodetic Base ( *Benucci Stefano*, 31-01-2019 )



Orti Marsh with Flamingos ( *Benucci Stefano*, 14-08-2020 )



Osprey . Nest construction at Orti Marsh ( *Benucci Stefano*, 04-05-2021 )



Black-winged Stilt on the nest at Orti Marsh ( *Benucci Stefano*, 01-07-2023 )



Avocets at Orti Marsh ( *Benucci Stefano*, 10-07-2024 )



Bottagone Marsh with Cattle Egrets ( *Benucci Stefano*, 21-03-2024 )



Bottagone Marsh with detail on the reed bed ( *Benucci Stefano*, 06-02-2019 )



Bottagone Marsh with photographers' hide ( *Benucci Stefano*, 06-02-2019 )



Perelli Bassi landscape ( *Benucci Stefano*, 19-11-2024 )



Vignarca Meadows salt marsh in winter ( *Benucci Stefano*, 31-01-2019 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation	2013-10-21
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