

The Isonzo Rivermouth Nature Reserve



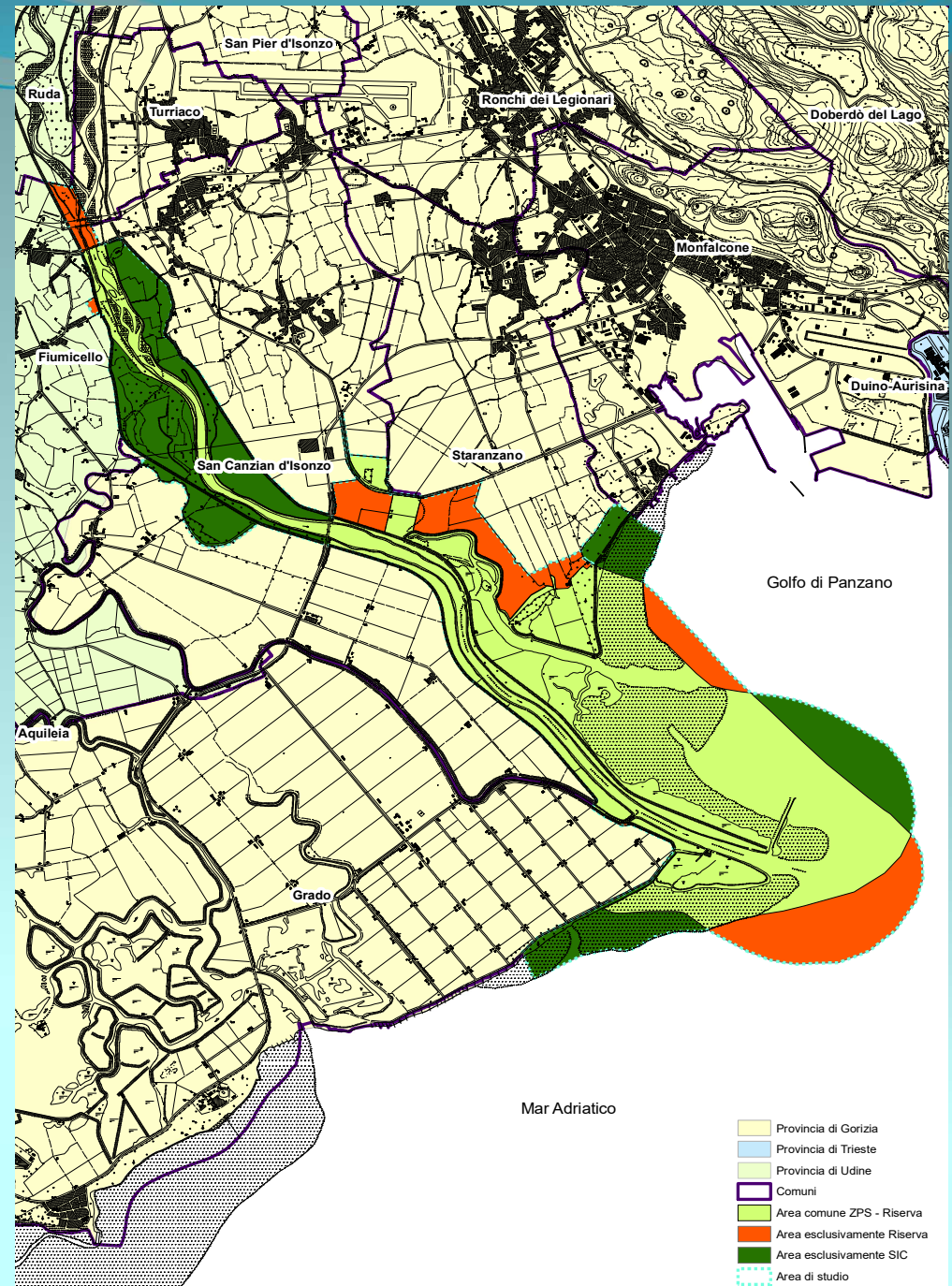
The protected area:

- *Regional Nature Reserve (L.R. 42/1996)*
- *N2000 - ZSC/ZPS – Foce dell'Isonzo ed Isola della Cona*
- *Ramsar site*

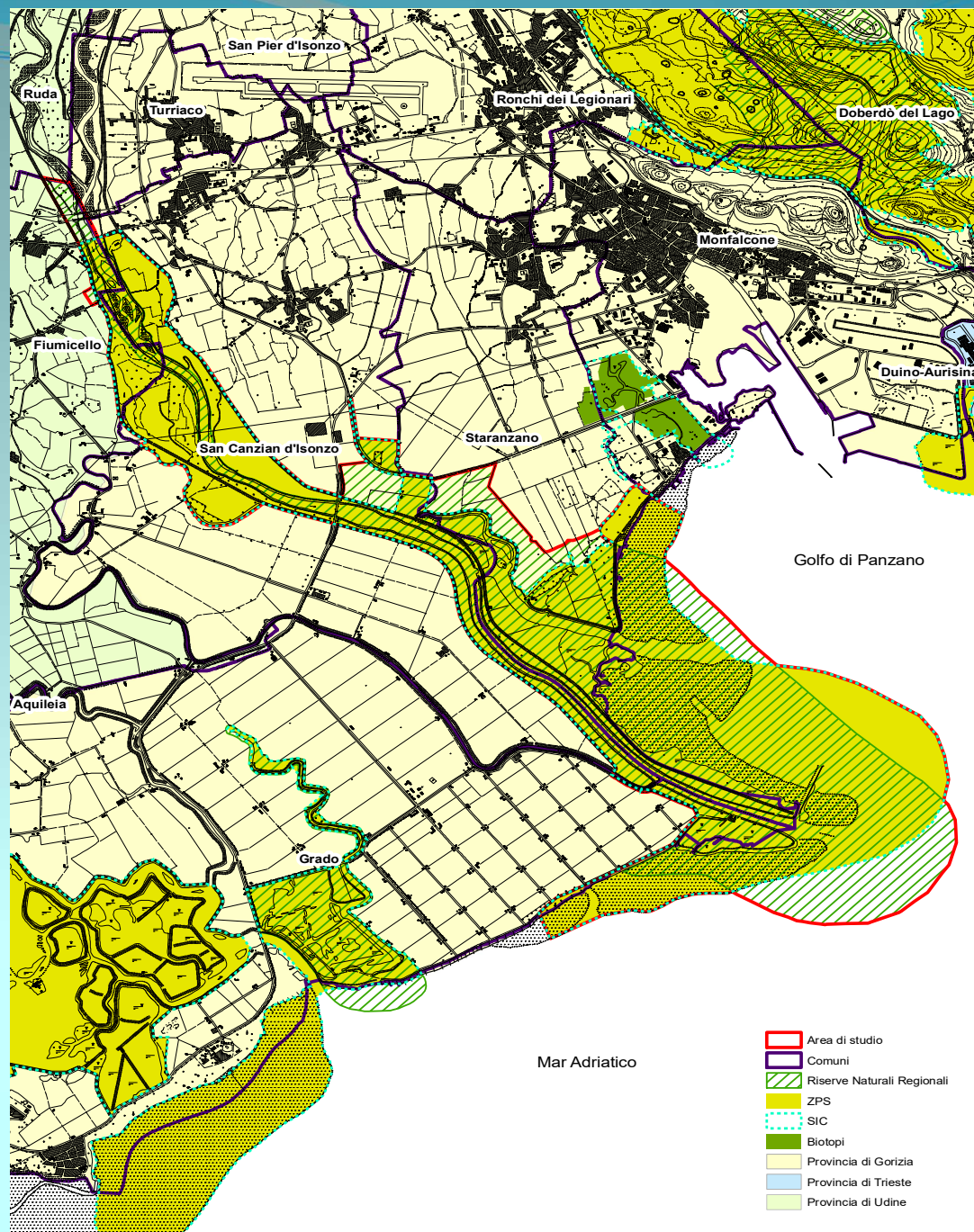


The Nature Reserve and The Natura 2000 sites

	Area (ha)
Reserve	2392,977
ZPS/ZSC	2668,171



Connections with others protected areas



Habitat e species:

**21 habitat
listed in annex I of Habitat Directive**



Habitat e species:

98 species listed in the Annex I of 147/09 Directive
20 species listed in the Annex II of 43/92 Directive
343 species of birds Check list



Habitat e species:

RISERVA NATURALE FOCE DELL'ISONZO – LISTA DEGLI UCCELLI **THE ISONZO RIVERMOUTH NATURE RESERVE – BIRDS CHECK LIST**

Matteo De Luca & Silvano Candotto

Riassunto breve – Nella nota viene presentato l'aggiornamento della check list degli uccelli presenti nella Riserva Naturale Regionale Foce dell'Isonzo; complessivamente essa ricomprende 343 specie, di cui 217 non passeriformi e 126 passeriformi. 105 specie risultano incluse nell'Allegato I della Direttiva 2009/147/CE "Uccelli".

Abstract - *The paper describes the update of the check list of the birds present in the Isonzo Mouth Regional Nature Reserve; overall it includes 343 species, of which 217 are non-passerines and 126 passerines. 105 species are included in Annex I of Directive 2009/147/EC.*



Habitat e species:



Habitat e species:









The restoration project of the Cona Island



Management:



Municipality of Staranzano leading the Authority body (with the municipality of San Canzian, Fiumicello, Grado)



Scientific and technical experts



Visitor center, Horses, Bar, Didactical activities

Facilities:

Visitor Center



Guestrooms



Bar and observatory

The Camargue horses



Monitoring activity



Birds monitoring:

- IWC
- Point counts
- Geese counts

Monitoring of species listed in Habitat Directive:

- *Pinna nobilis*
- Fish
- Amphibians and reptiles
- Bats
- Mammals

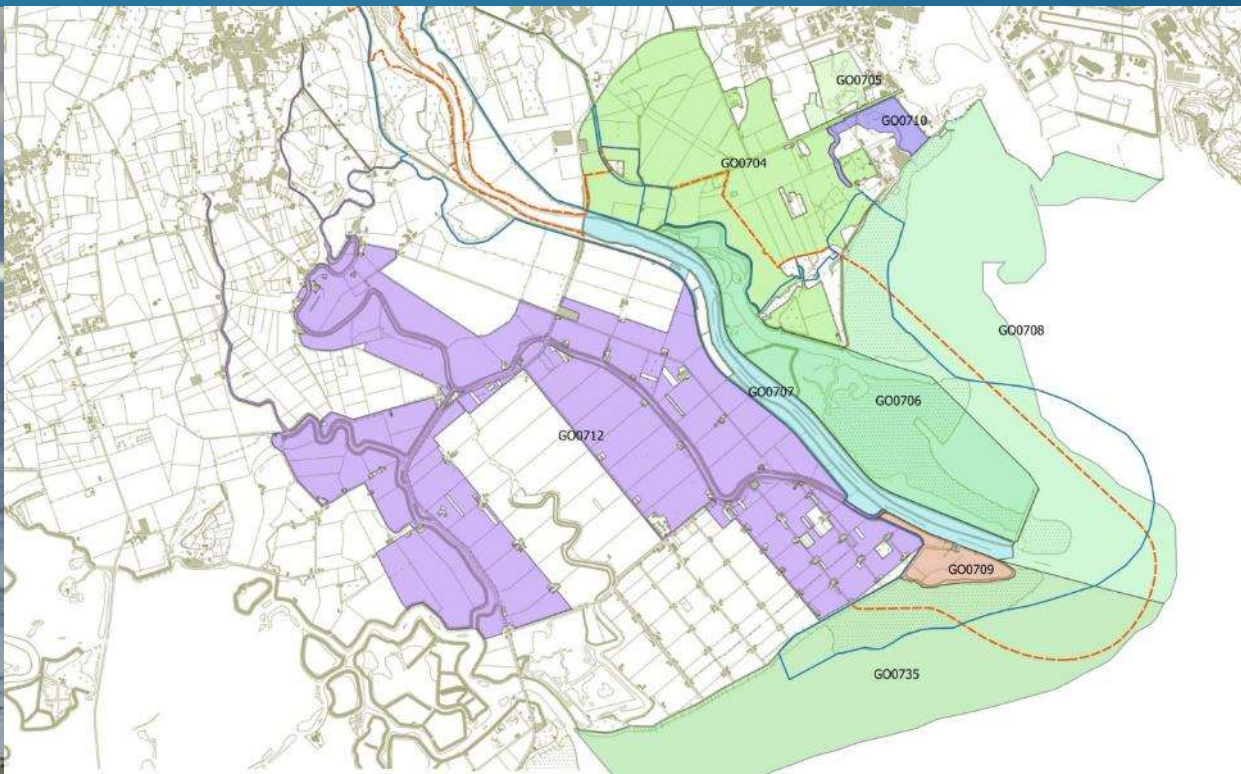
Other activities:

- Ring observation and recording
- Collection of occasional data
- Cooperation with different University



Birds monitoring:

- IWC International Waterbird Count

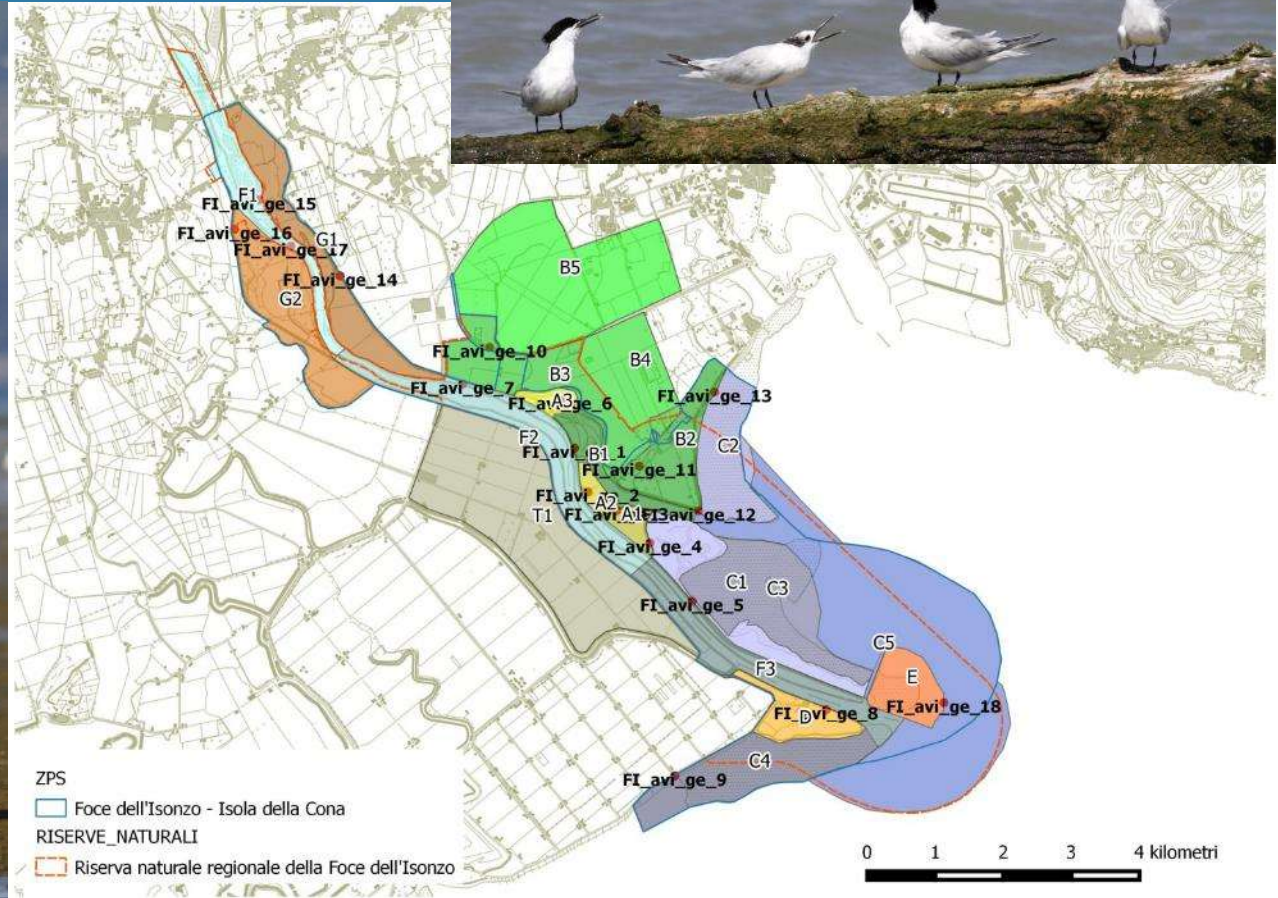


ZPS
Foce dell'Isonzo - Isola della Cona
RISERVE_NATURALI
Riserva naturale regionale della Foce dell'Isonzo

0 1 2 3 4 chilometri

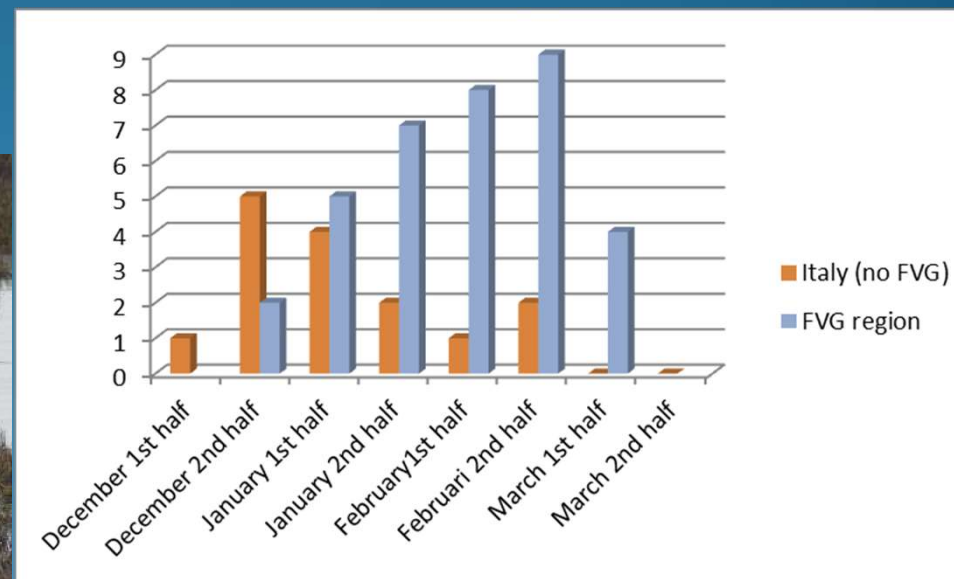
Birds monitoring:

- Point counts (following Adriawet2000 protocol)



Birds monitoring:

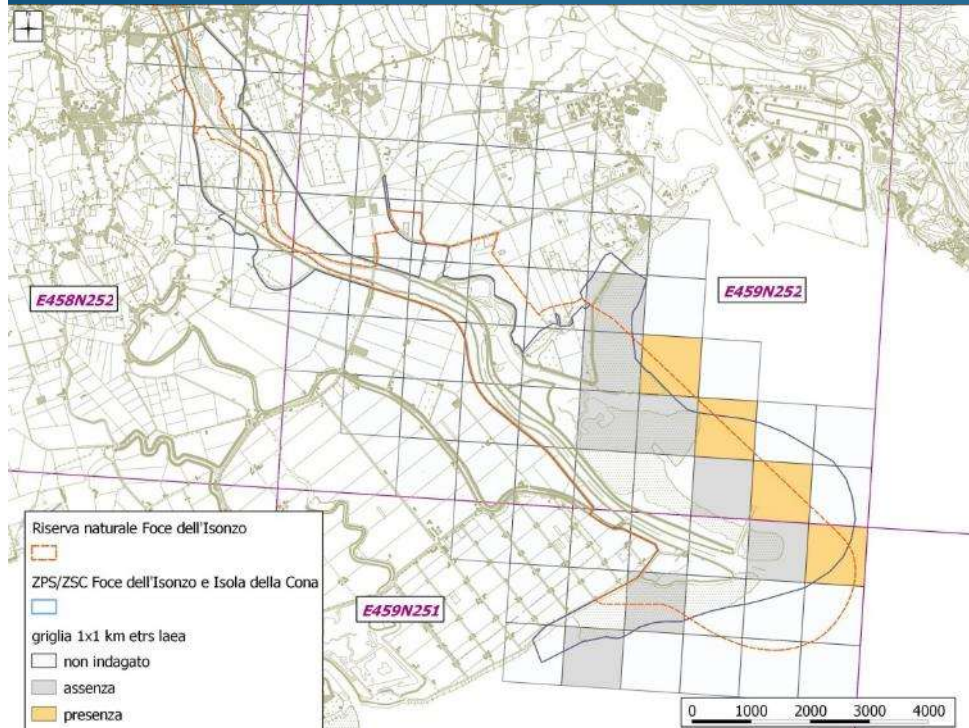
- Geese counts



point	transect	species	number	indicator	presence	year	month	day	grid	precisione (m)	zone	observer
Fl_avi_ge_	nd	Buteo buteo	1	individuals	true	2014	9	10	E4591N2524	500	B3	Silvano Candotto
Fl_avi_ge_1	nd	Anas platyrhynchos	0	individuals	true	2014	5	4	E4593N2522	500	B1	Fabio Perco
Fl_avi_ge_1	nd	Anas platyrhynchos	0	individuals	true	2014	5	10	E4593N2522	500	B1	Fabio Perco
Fl_avi_ge_1	nd	Egretta garzetta	0	individuals	true	2014	5	10	E4593N2522	500	B1	Fabio Perco
Fl_avi_ge_1	nd	Fulica atra	0	individuals	true	2014	5	4	E4593N2522	500	B1	Fabio Perco
Fl_avi_ge_1	nd	Fulica atra	0	individuals	true	2014	5	5	E4593N2522	500	B1	Silvano Candotto
Fl_avi_ge_1	nd	Fulica atra	0	individuals	true	2014	5	6	E4593N2522	500	B1	Altro
Fl_avi_ge_1	nd	Tachybaptus ruficollis	1	individuals	true	2014	5	8	E4593N2522	500	B1	Fabio Perco
Fl_avi_ge_1	nd	Tachybaptus ruficollis	0	individuals	true	2014	5	12	E4593N2522	500	B1	Altro
Fl_avi_ge_1	nd	Actitis hypoleucos	40	individuals	true	2014	8	10	E4593N2522	500	B1	Altro
Fl_avi_ge_1	nd	Alcedo atthis	1	individuals	true	2014	8	6	E4593N2522	500	B1	Fabio Perco

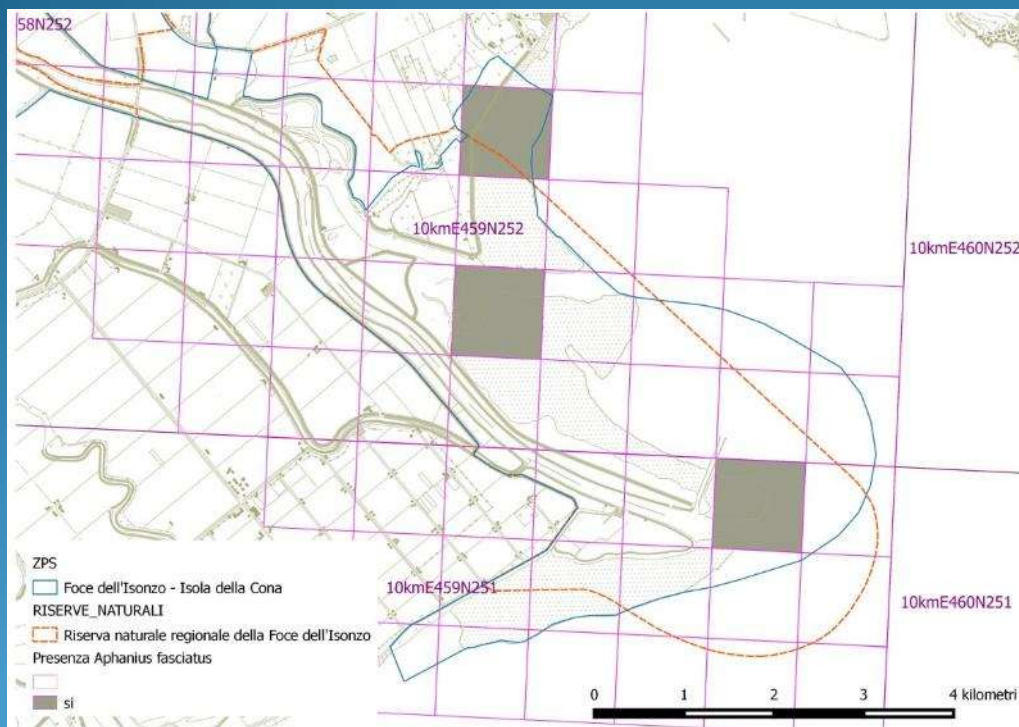
Monitoring of species listed in Habitat Directive:

- Fun shell mussel *Pinna nobilis*



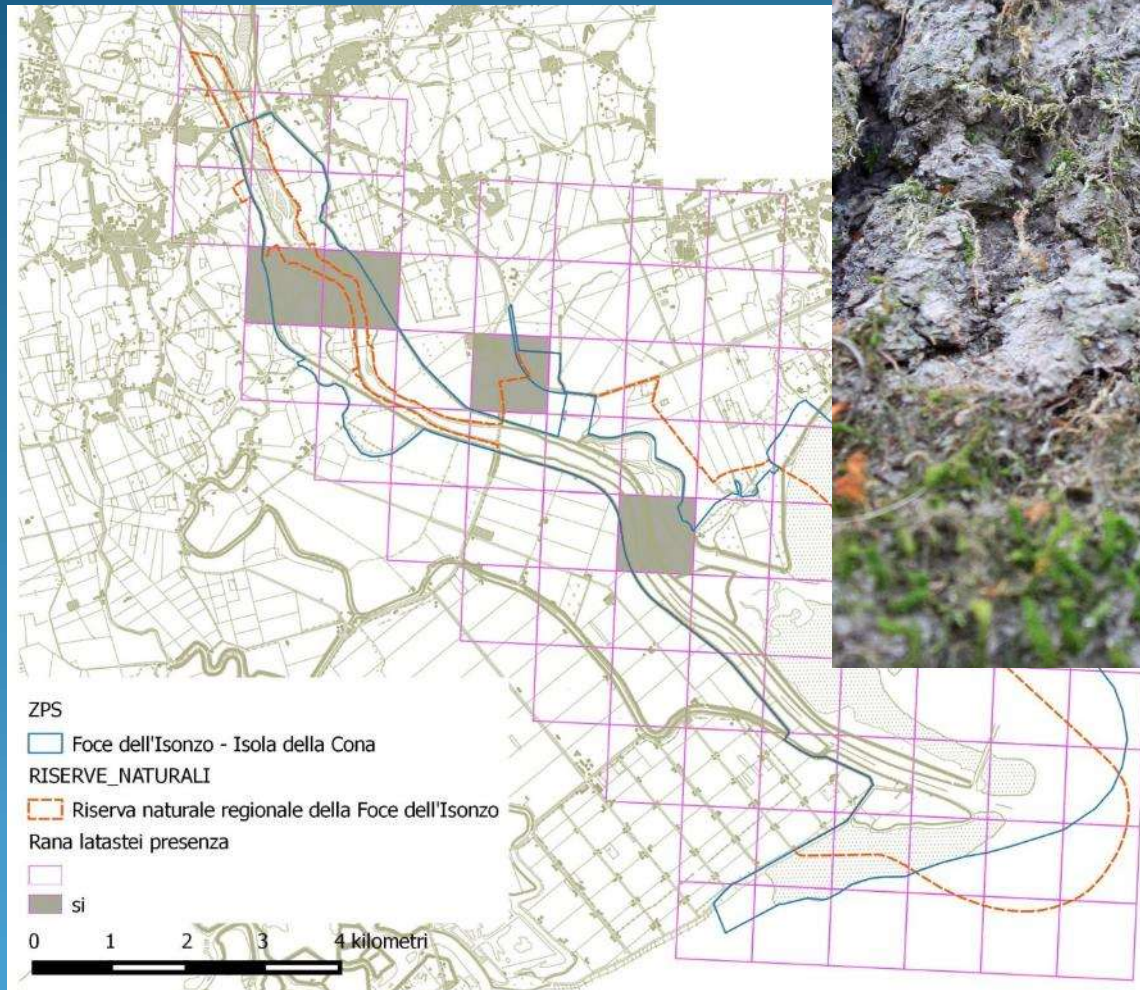
Monitoring of species listed in Habitat Directive:

- Fish : *Aphanius fasciatus*, *Knipowitschia panizzae*, *Pomatoschistus canestrini*



Monitoring of species listed in Habitat Directive:

- Amphibians and reptiles

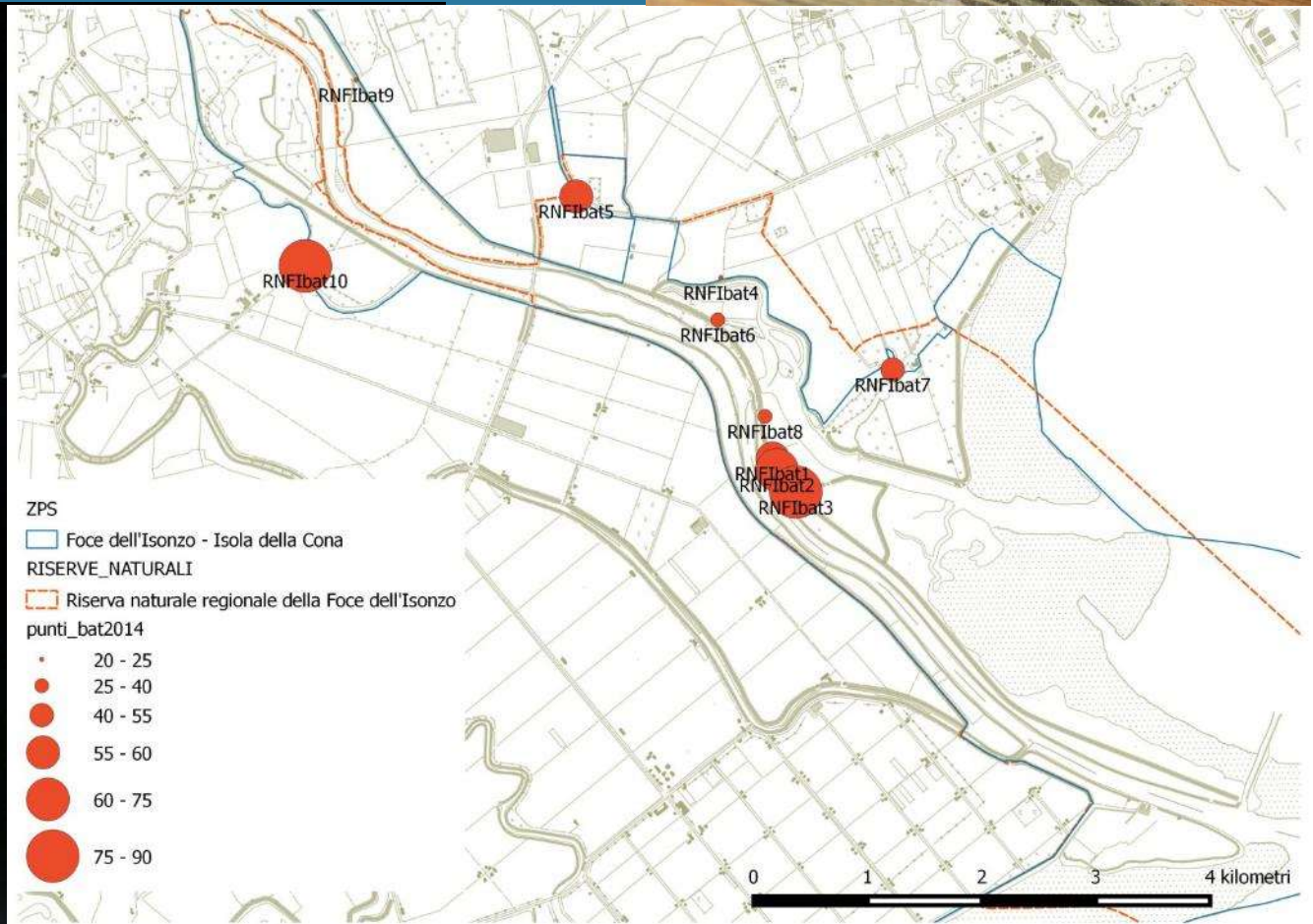


Monitoring of species listed in Habitat Directive:

- Bats



Nuove specie per ZSC:
H. savii
P. pygmaeuss
Nyctalus. Sp
Myotis. Sp



Monitoring of species listed in Habitat Directive:

- *Canis aureus*, *Felis silvastris*, *Mustela putorius*



Other activities:

- Ring observation and recording

	Numero anelli/collari letti	
	2014	2015
Oca selvatica	5	11
Cigno reale	3	2
Airone bianco maggiore	4	1
Spatola	11	6
Cormorano	1	1
Marangone dal ciuffo	4	2
Cavaliere d'Italia	7	7
Fratino	1	1
Combattente	1	
Piovanello pancianera	8	3
Gabbiano comune	18	24
Gabbiano corallino	26	22
Gabbiano reale	1	2
Sterna comune	6	24
Beccapesci	66	63
Totale	172	169



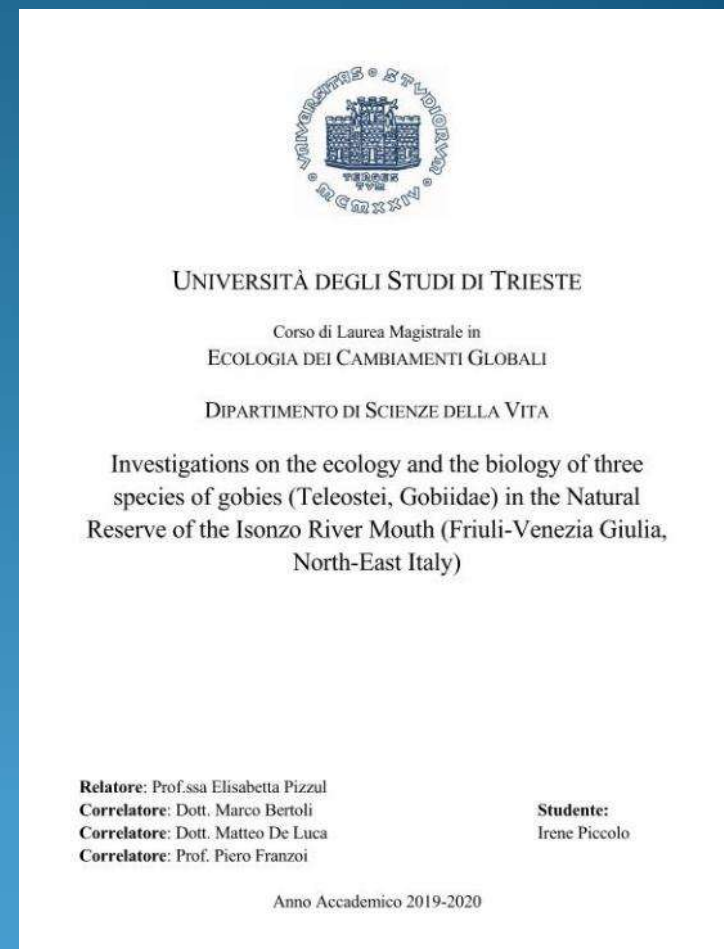
Other activities:

- Cooperation with different University



Other activities:

- Cooperation with different University



Flora and vegetation monitoring

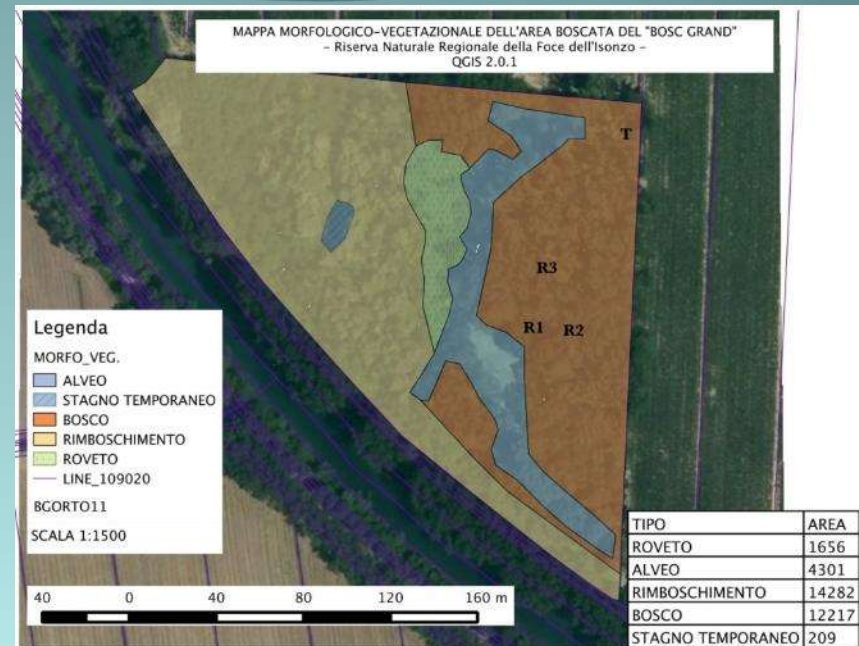
Flora check-list and vegetation analysis

Praterie umide ruderali dulciacquicole (<u>Potentillo-Polygonetalia</u>) con megaforbie (<u>Filipendulo-Convolvuletea</u>)			
Specie	Copertura		Optimum Fitosociologico
	1	2	
Althaea officinalis	3	+	<u>Filipendulo-Convolvuletea</u>
Eupatorium cannabinum	2	+	<u>Convolvuletea sepium</u>
Aster novi-belgii	3	3	<u>Convolvuletea sepium</u>
<u>Calystegia sepium</u>	1		<u>Convolvuletea sepium</u>
Lysimachia vulgaris		+	<u>Filipendulo-Convolvuletea</u>
Cirsium canum		+	<u>Molinietalia caeruleae</u>
Allium suaveolens		2	<u>Molinion caeruleae</u>
Tetragonolobus maritimus		1	<u>Molinion caeruleae</u>
<u>Linum maritimum</u>		+	Molinio-Holoschoenion
Pulicaria dysenterica	2	+	<u>Potentillo-Polygonetalia</u>
Festuca arundinacea/arundinacea		1	<u>Potentillo-Polygonetalia</u>
Plantago major/intermedia	+		<u>Alchemillo-Ranunculon repentis</u>
Potentilla reptans	+		<u>Potentillon anserinac</u>
Dactylis glomerata	+	+	<u>Molinio-Arthenateretea</u>
Juncus acutus/acutus	+		Juncetalia maritimi
Juncus maritimus	+		Juncetalia maritimi
Plantago cornuti	1		Juncetalia maritimi
Sonchus maritimus	1		<u>Plantaginion crassifoliae</u>
<u>Elymus athericus</u>	1	3	<u>Brachypodietalia phenicoidis</u>
Inula viscosa	+	+	<u>Lygo-Stepetea</u>
Phragmites australis	3	1	<u>Phragmito-Magnocaricetea</u>
<u>Peucedanum venetum</u>	+		<u>Geranion sanguinei</u>
Amorpha fruticosa	+	+	Salicion incanae
Aster squamatus		+	<u>Stellarietea mediae</u>
Equisetum ramosissimum		+	<u>Epilobion fleischeri</u>
<u>Prenanthes purpurea</u>		+	<u>Fagetalia purpureae</u>
Prunus spinosa/spinosa plantule		+	<u>Prunetalia spinosae</u>
Commento	Praterie umide delle superfici più elevate e dissalate, un tempo fortemente invase da Amorpha fruticosa, specie che il pascolamento bovino degli anni scorsi ha quasi completamente eliminato, ma sempre latente in zona. Le specie prevalenti sono quelle delle praterie umide di megaforbie (<u>Filipendulo-Convolvuletea</u>), dei prati umidi acquadulcicoli (<u>Molinietalia caeruleae</u>) e dei prati umidi ruderali (<u>Potentillo-Polygonetalia</u>). Sempre presente (più o meno abbondantemente) Phragmites australis, a segnalare la natura comunque molto umida del terreno, mentre la limitata penetrazione di specie alofile (Juncus sp.pl, Plantago cornuti, ecc.) è spiegata dalla dominanza di tali specie su superfici limitrofe più basse.		
Manuale Habitat FVG	Codice habitat: OB4 Denominazione: Vegetazioni lianose lungo i corsi d'acqua Sintassonomia: <u>Convolvuletea sepium</u> R. Tx, 1950 em. Mucina 1993 Habitat N2000: 6430 - Orli igrofilo ad alte erbe pianiziali e dei piani montano ed alpino		
Specie rilevanti	Allium suaveolens, Cirsium canum, Plantago cornuti		



Praterie di grandi giunchi più o meno alofile									
<u>Juncetum maritimo-acuti</u> Horvath 1934									
<u>Puccinellio festucaeformis-Juncetum maritimi</u> (Pignatti 1953), Gêhu et Scopp. in Gêhu et al. 1984									
Specie	Copertura								Optimum Fitosociologico
	1	2	3	4	5	6	7	8	
Juncus maritimus	5	3	3	4	4	5	3	2	Juncetalia maritimi
Plantago cornuti			1	+		1			Juncetalia maritimi
Aster tripolium/tripolium		3	+		3	+	1	+	Juncetalia maritimi
Juncus acutus/acutus								+	Juncetalia maritimi
Juncus gerardi/gerardi								+	Juncetalia maritimi
Sonchus maritimus						+			<u>Plantaginion crassifoliae</u>
Limonium vulgare	+	+	+	1			+	+	<u>Arthroscemetes</u>
Artemisia coerulescens								+	<u>Arthroscemetes</u>
Arthronemum fruticosum			+						<u>Arthroscemetes</u>
Salicornia procumbens	+					+	+	+	<u>Thero-Salicornetea</u>
Suaeda maritima	+	3			1		1	1	<u>Thero-Salicornetea</u>
Atriplex prostrata	+			+	+	+	+	+	Chenopodium rubri
<u>Elymus athericus</u>							1	3	<u>Brachypodietalia phenicoidis</u>
Phragmites australis	+	+	2	2	+	3		+	<u>Phragmito-Magnocaricetea</u>
Mentha aquatica					+				<u>Phragmito-Magnocaricetea</u>
<u>Samolus valerandi</u>			+	+	+	+			<u>Nanoscyperion flavescens</u>
Althaea officinalis			1	+		+	1	+	<u>Filipendulo-Convolvuletea</u>
Aster novi-belgii			1	+	+	+			<u>Convolvuletea sepium</u>
<u>Calystegia sepium</u>			+	+	+				<u>Convolvuletea sepium</u>
Lysimachia vulgaris					+	+			<u>Filipendulo-Convolvuletea</u>
Senecio jacobaeus / barbataefolius							+	+	<u>Filipendulo-petastion</u>
Pulicaria dysenterica			1						<u>Potentillo-Polygonetalia</u>
Allium suaveolens					1	1			<u>Molinion caeruleae</u>
Tetragonolobus maritimus						+			<u>Molinion caeruleae</u>
Lotus tenuis							1	2	<u>Potentillo-Polygonetalia</u>
Plantago intermedia							+		<u>Alchemillo-Ranunculon repentis</u>
Aster squamatus						+	1	+	<u>Stellarietea mediae</u>
Cynodon dactylon							1		<u>Stellarietea mediae</u>
Dittrichia viscosa								+	<u>Lygo-Stepetea</u>
Commento	Praterie umide, in parte talora allagate soprattutto da alte maree diluite da piene fluviali. Da salmastre a salmastro-dulciacquicole (con comparsa di un contingente di specie non alofile abbastanza consistente, vedi in tabella tutte quelle da Mentha aquatica in giù) si attestano in ambiti palustri litoranei interni con presenza di falde d'acqua dolce più o meno superficiali. I vari aspetti, sempre con dominanza o forte presenza di Juncus maritimus, sono in contatto catenale tra loro (e con aspetti di vegetazione più marcatamente alofili) senza evidenti barriere di separazione se non quella di lievi differenze nell'altezza topografica delle superfici occupate.								
Manuale Habitat FVG	Codice habitat: CA4 Denominazione: Praterie su suoli salmastri dominate da grandi giunchi Sintassonomia: <u>Juncetum maritimi</u> Gêhu et Biondi 1995 Habitat N2000: 1410 - Prati salati mediterranei (Juncetalia maritimi)								
Specie rilevanti	Plantago cornuti, Allium suaveolens								
Foto									

Habitats maps for management purpose



Permanent areas in woodland and marshes

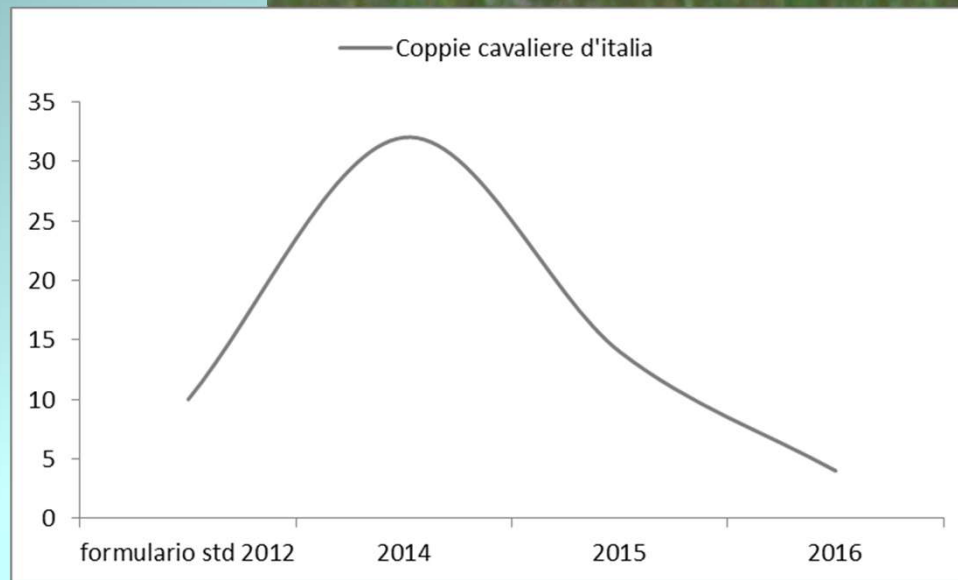
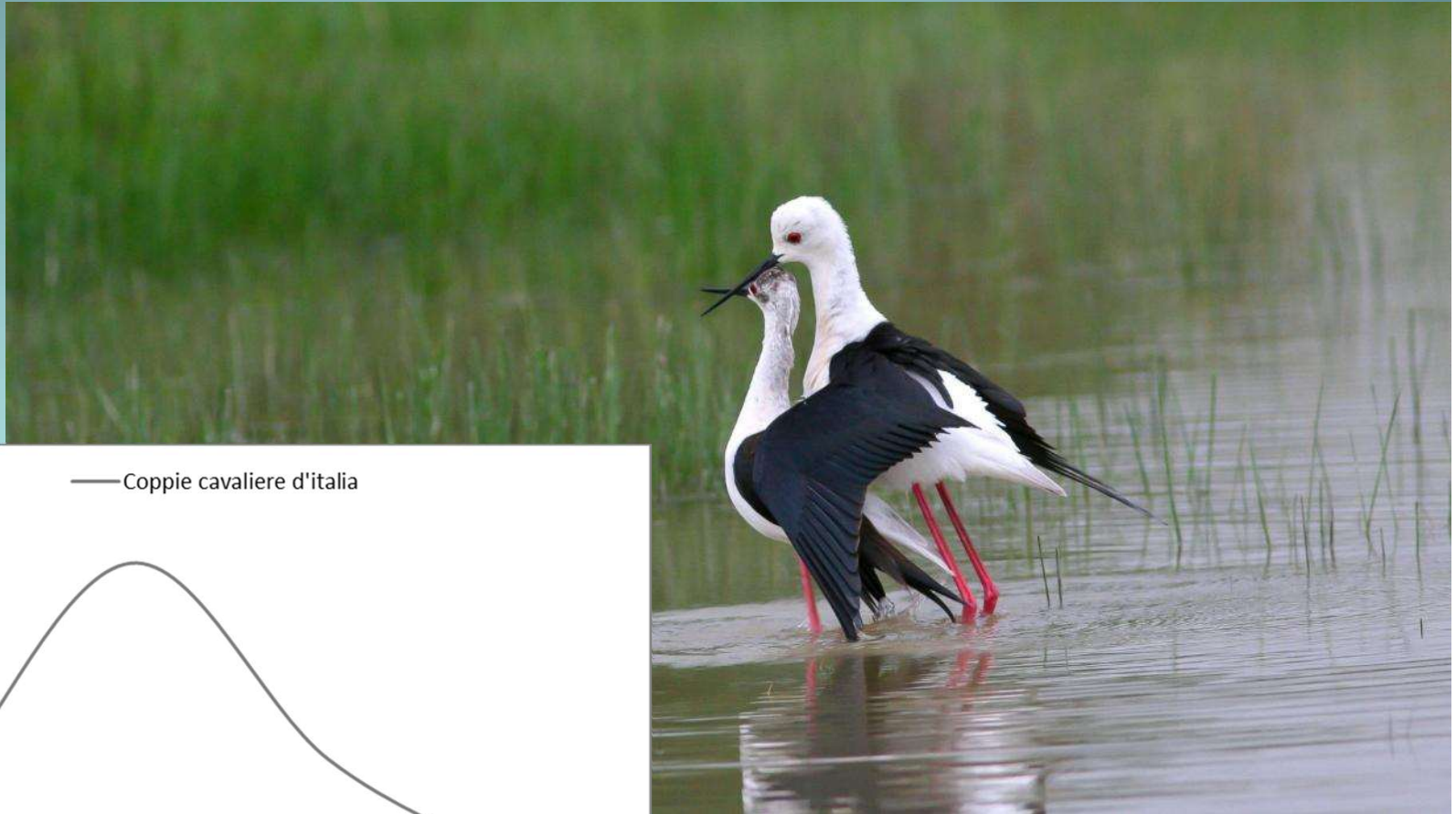


Management



Actions for some species

Es. Himantopus himantopus



Actions for some species

Es. Himantopus himantopus



Actions for some species

Es. Himantopus himantopus



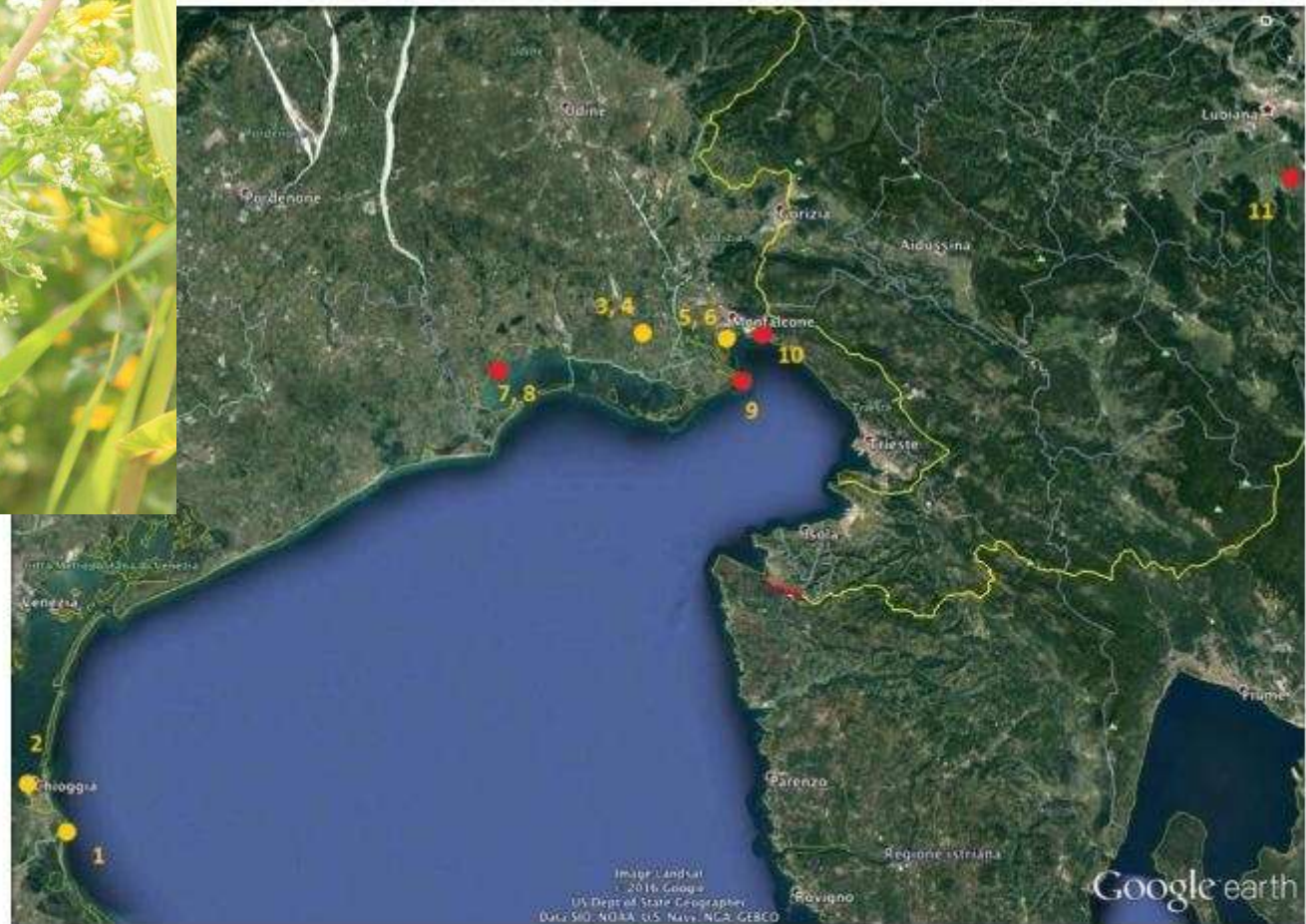
Actions for some species

Es. Himantopus himantopus



Actions for some species

Zeuneriana marmorata



Localities of *Zeuneriana marmorata*

Historical localities 1. Mouth of the Adige (Kleukers et al. 1997). 2. Chioggia (Brunner von Wattenwyl 1882). 3. Aquileia Giordani Soika 1949; Kleukers et al. 1997). 4. Terzo d'Aquileia (Kleukers et al. 1997). 5. Monfalcone (Kleukers et al. 1997). 6. Bistrigna (Kleukers et al. 1997).
Current localities 7. Cormor River- Rio Muzzanella. 8. Delta of the Stella. 9. Mouth of the Isonzo. 10. Lisert, Monfalcone (Kleukers et al. 1997). 11. Ljubljansko barje (Gomboc & Šegula 2005).

Actions for some species

Zeuneriana marmorata

Adriatic Marbled Bush-Cricket (*Zeuneriana marmorata*)

A National Action Plan for Italy 2016-2022

Edited by Axel Hochkirch, Francesca Tami, Yannick Fanin, Carlo Guzzon, Pierpaolo Merluzzi & Paul Tout



Actions' detail sheets

Actions	Who	When	How	Budget (€)	Indicator of success
Goal 1: Habitat management					
OBJECTIVE 1.1 HABITAT PRESERVATION AND IMPROVEMENT					
1.1.1 <i>Facilitate the protection of the habitat in the Lisert area as a "Biotope"</i>	Region, Monfalcone Municipality, S. Saffer, P. Tout	2018		NA	Lisert wetland is "Biotope"
1.1.2 <i>Identify land owners in Lisert area</i>	S. Saffer, P. Tout	End 2017	Land Register, interviews	NA	List of land owners
1.1.3 <i>Explore possibilities to close sluice(s) in the Lisert area to increase water level and facilitate restoration</i>	SBIC	2017	Dialogues with authorities	Staff time	Solution presented by 2017 to close sluice(s) by 2020
1.1.4 <i>Monitor shrub development in Lisert area to check if shrub removal has to be done</i>	SBIC	yearly report	Field surveys	Staff time	Yearly short report (or map), first scrub invasion map in 2017
1.1.5 <i>Prevent the area Spigolo from grazing by putting fences</i>	SBIC	End 2017	Field	Staff time, 1,000 for material	Fence built
1.1.6 <i>Ensure the inclusion of</i>	Region	2017		Staff time	Management

Actions for some species

Zeuneriana marmorata



Actions for some species

Zerynthia polyxena



Actions for some species

Zerynthia polyxena (*Aristolochia rotunda*)

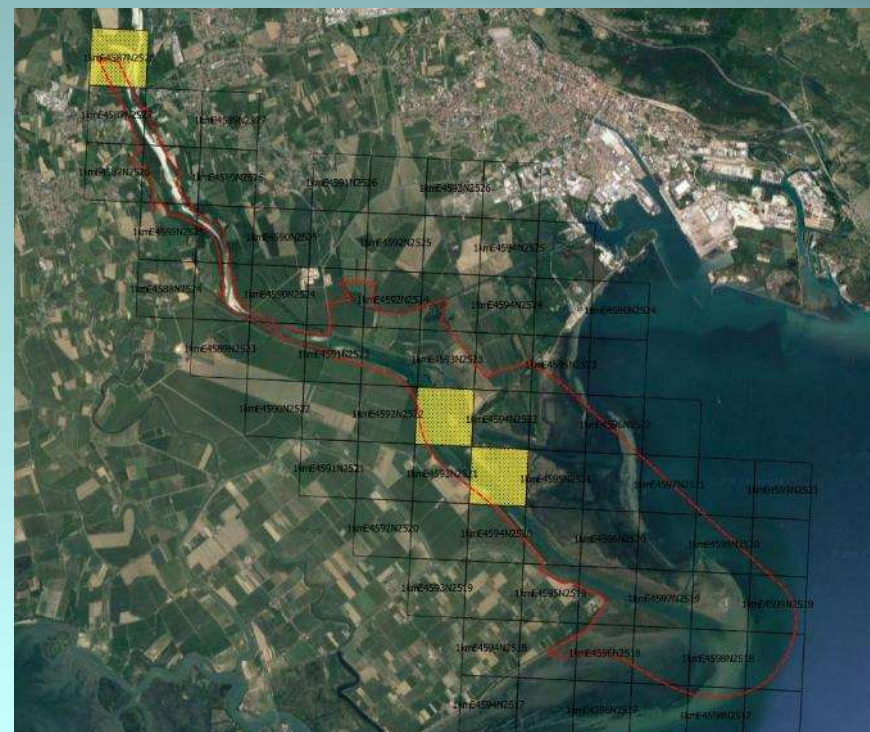


Actions for some species

Zerynthia polyxena



Ante 2016



Post 2016

Actions for some habitats of species

Restoring reedbeds

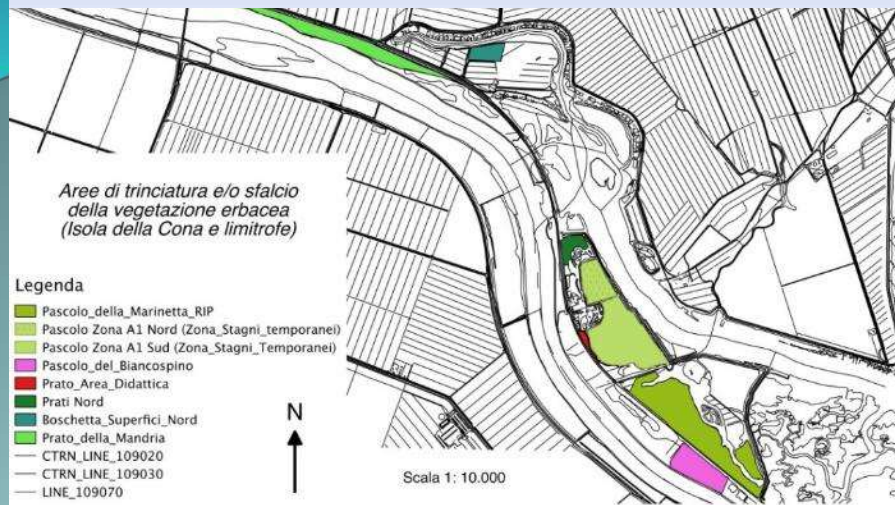


Actions for some habitats of species

*Diversification of flood bed vegetation through
Horses grazing*

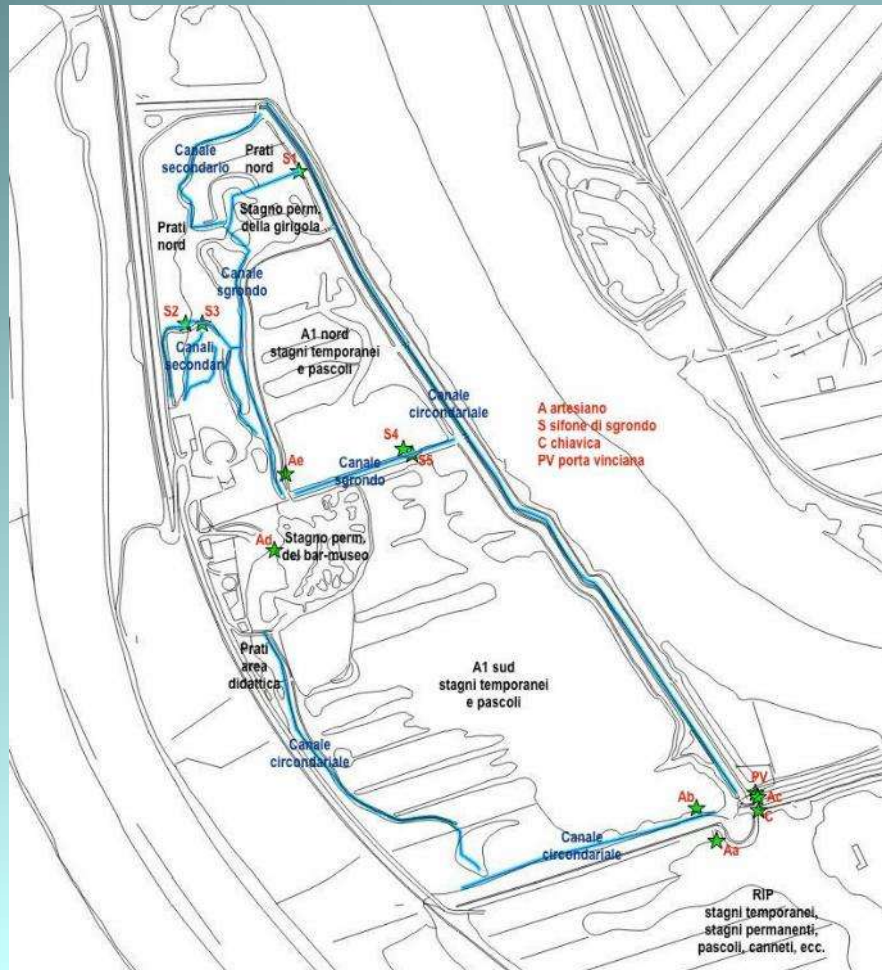


Management of meadows



- Grazing
- Mowing

Management of water level: flooding and draining.



Stakeholders....



Stakeholders....



Stakeholders....



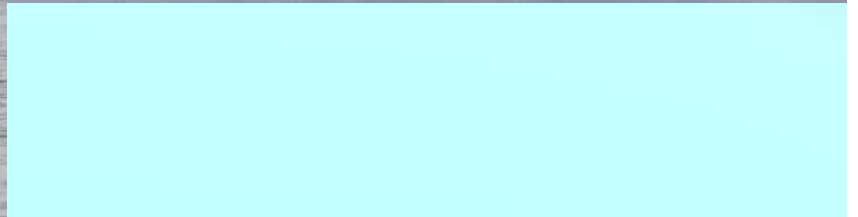
Stakeholders....



Stakeholders....



Stakeholders....



Communication



Riserva naturale regionale Foci dell'Isonzo - Isola della Cona

Publicato da Tina Klanjšček · 23 luglio 2020 ·

Ritorniamo alla #Natura! Dal Coordinamento aree naturali protette e della Regione Friuli Venezia Giulia nasce l'idea di realizzare dei materiali promozionali per pubblicizzare e rilanciare i #parchi e le #riserve regionali. Tra queste vi è anche la Riserva naturale regionale Foci dell'Isonzo - Isola della Cona, nota in tutta Italia per la straordinaria #biodiversità che ospita, grazie al suo mosaico di praterie, boschi, acque dolci e salate. Un #gioiello da visitare in tutte le sta... A

Italia non finisce mai

UNA STORIA DA CANTARE
QUESTA SERA ORE 21:25



12.821

Persone raggiunte

970

Interazioni

Metti in evidenza il post



Thank you!