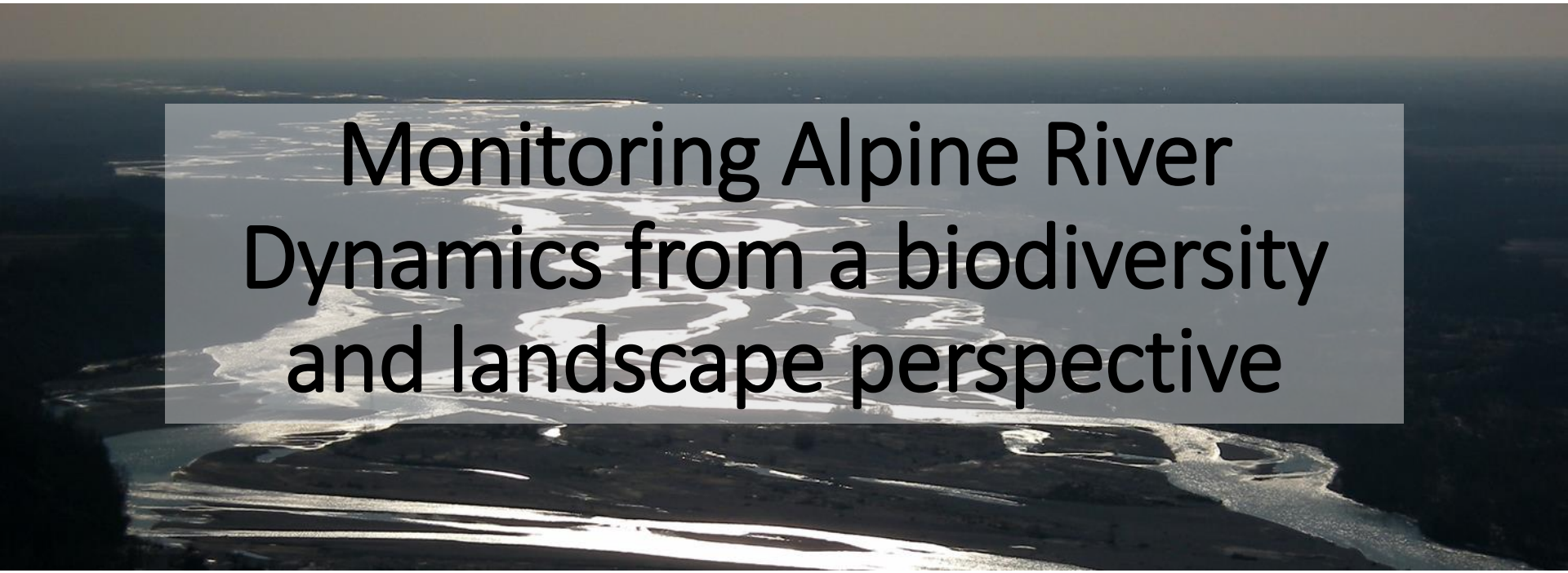
Erasmus+

Blended Intensive Programmes



Monitoring Alpine River Dynamics from a biodiversity and landscape perspective

UNIVERSITÀ DEGLI STUDI DI UDINE
hic sunt futura

Eberswalde University for Sustainable Development

UNIWERSYTET KAZIMIERZA WIELKIEGO W BYDGOSZCZY

Tagliamento

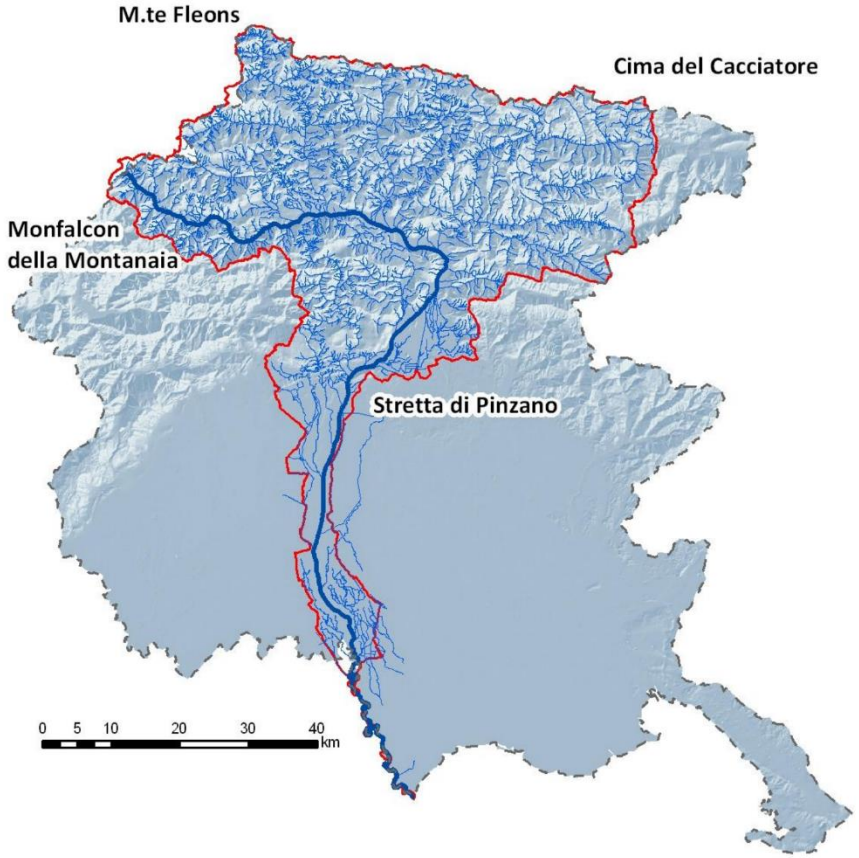
It is the dominant river system of the Friuli region

Source: Passo della Mauria (1194 m)

Stream network length: 2726 km

Length: 178 km

Basin: 2580 km^2

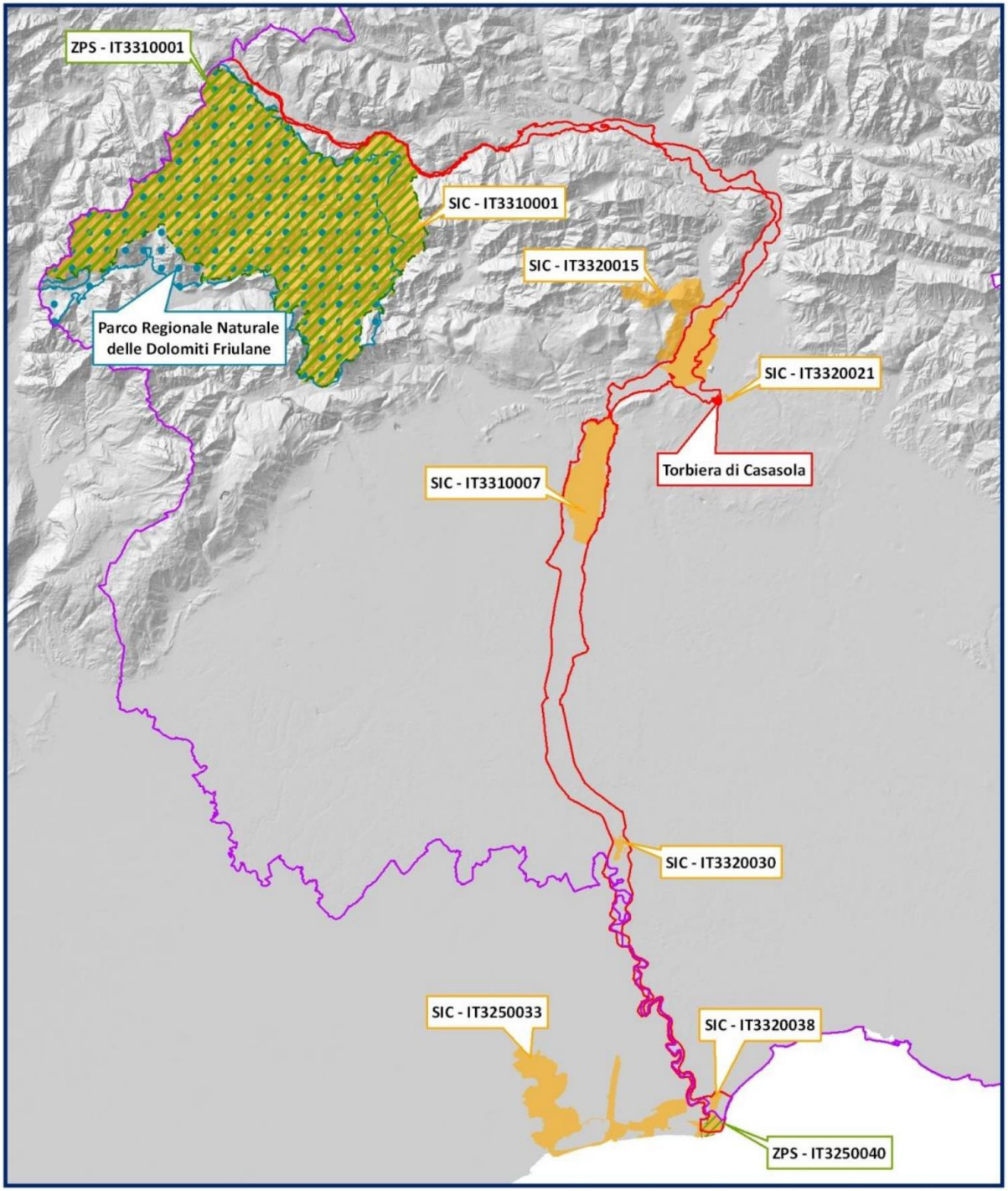


Because of high coarse sediment production in the catchment, the Tagliamento River displays a wide braided channel along 90 km of its course

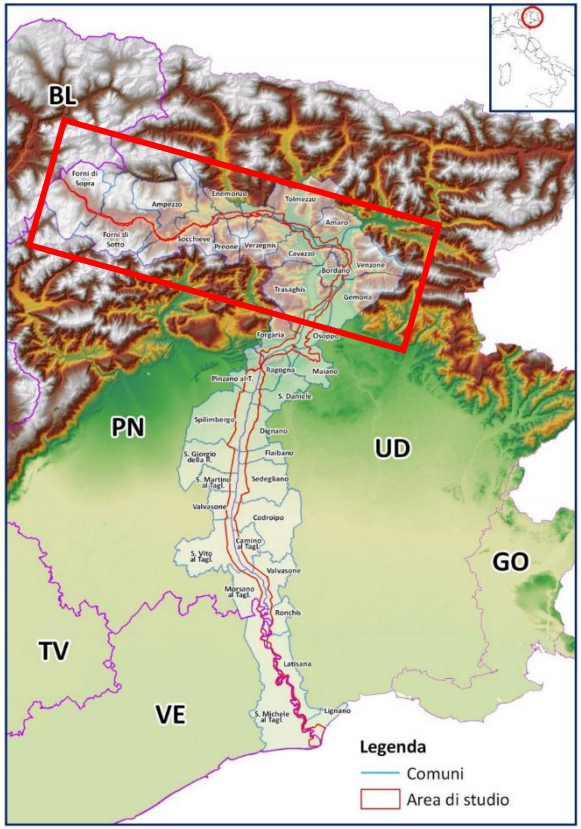
Nature protection

The corridor has escaped massive river engineering and floodplain development schemes

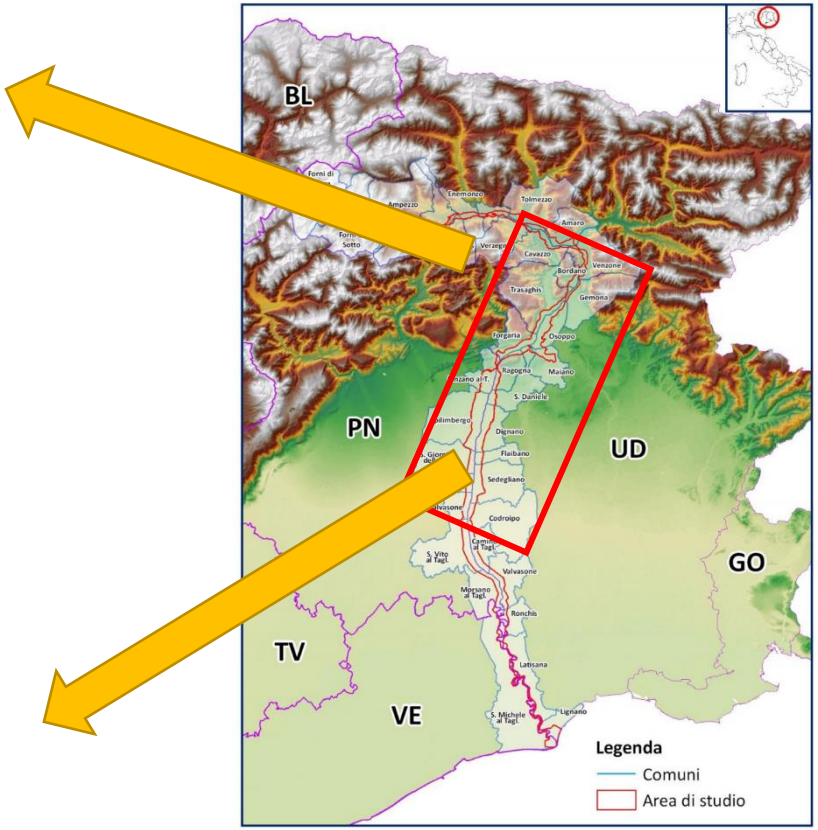
Near-pristine system



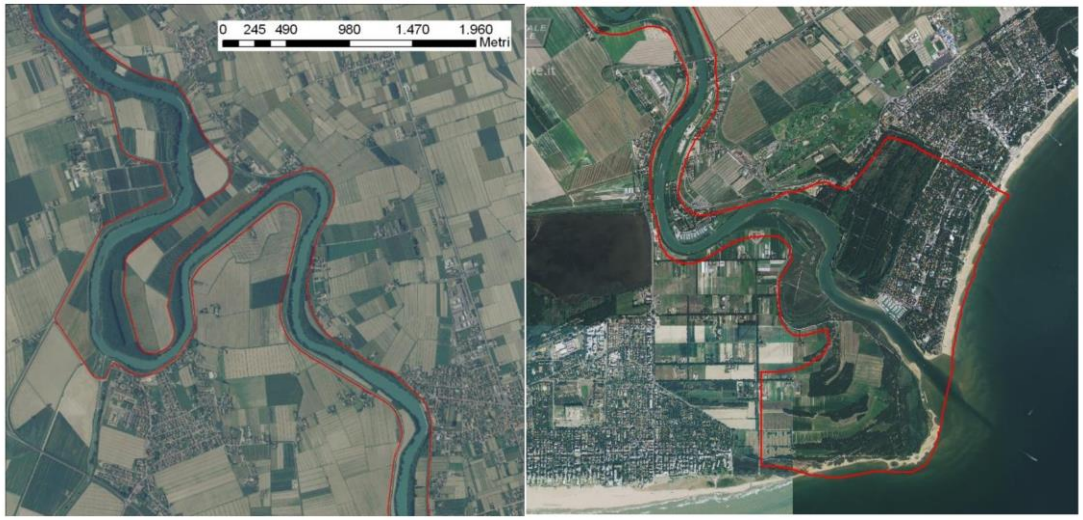
Mountain range

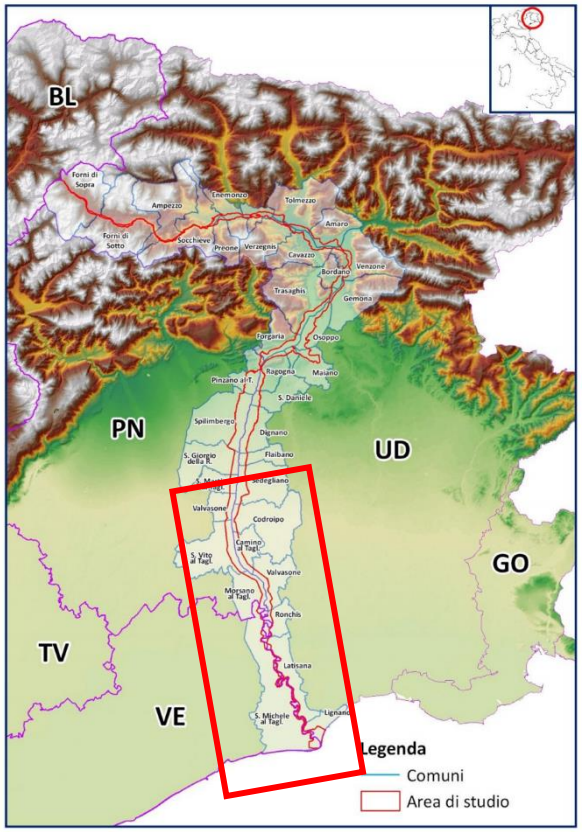


Barided channel

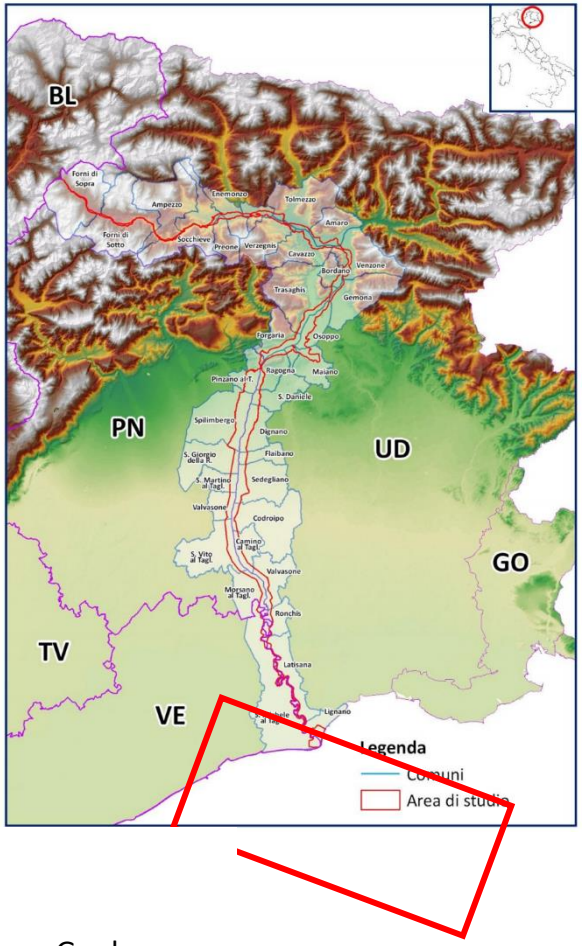


Lowland – single channel





River mouth and lagoon

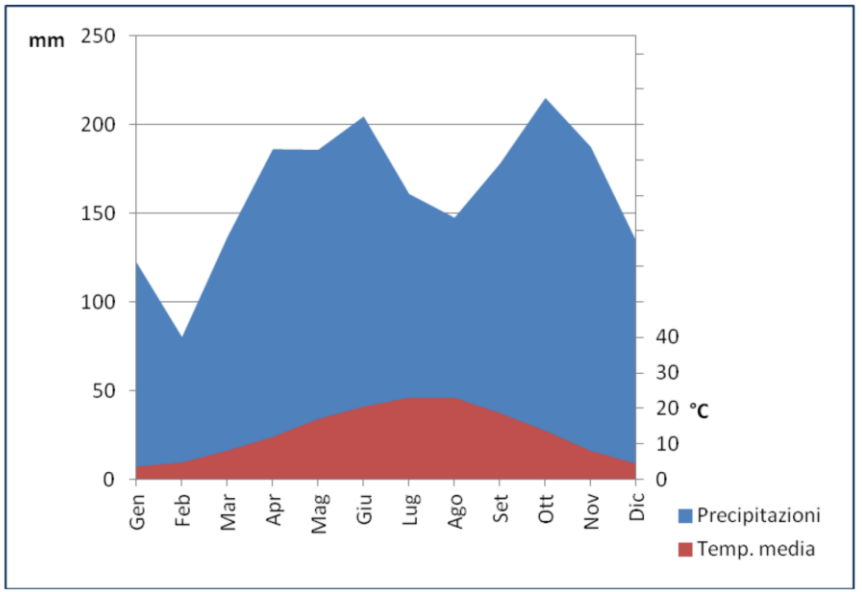


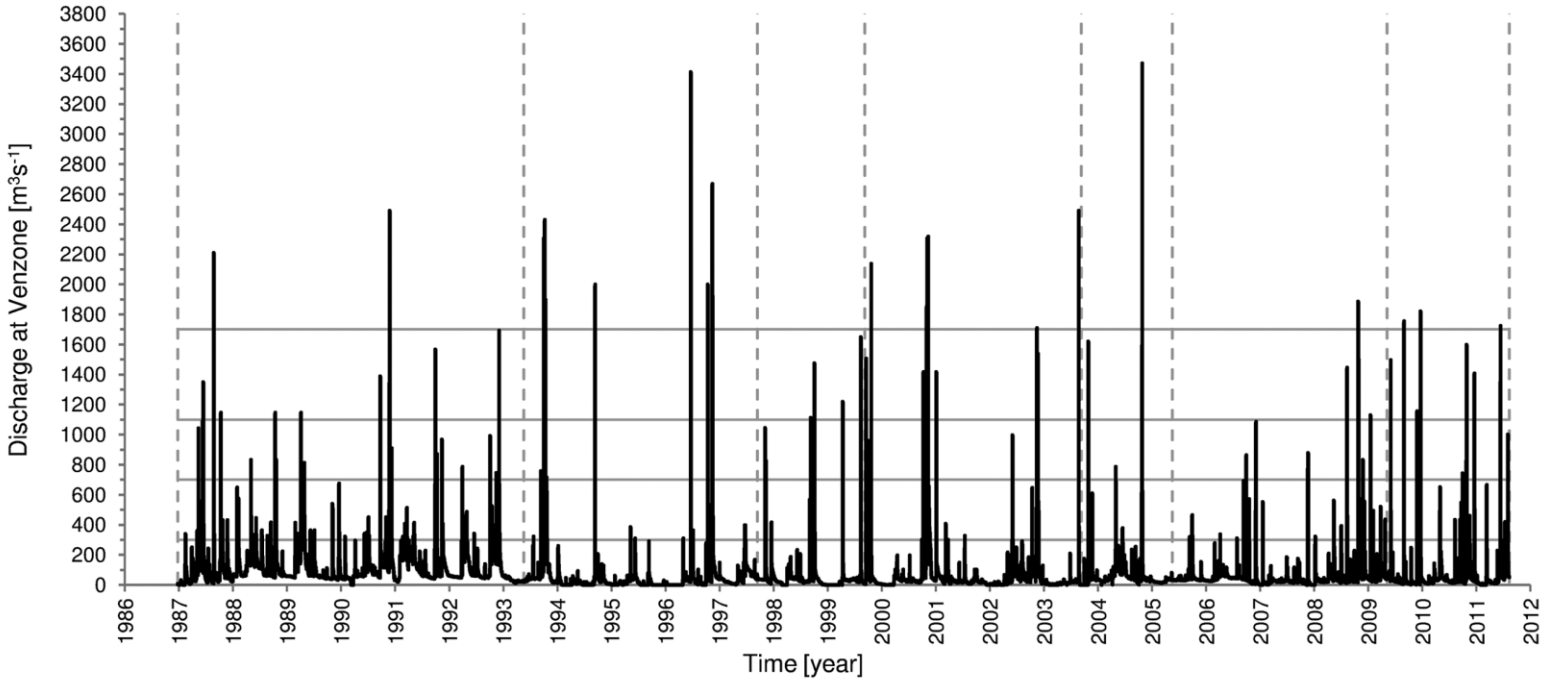
La laguna di Marano e Grado

Hydrology

Mean annual precipitation (1961–1990) 2000 mm. Ranging from 1500 mm in some small portions of the upper and lower parts up to 3100 mm in some central sub-basins

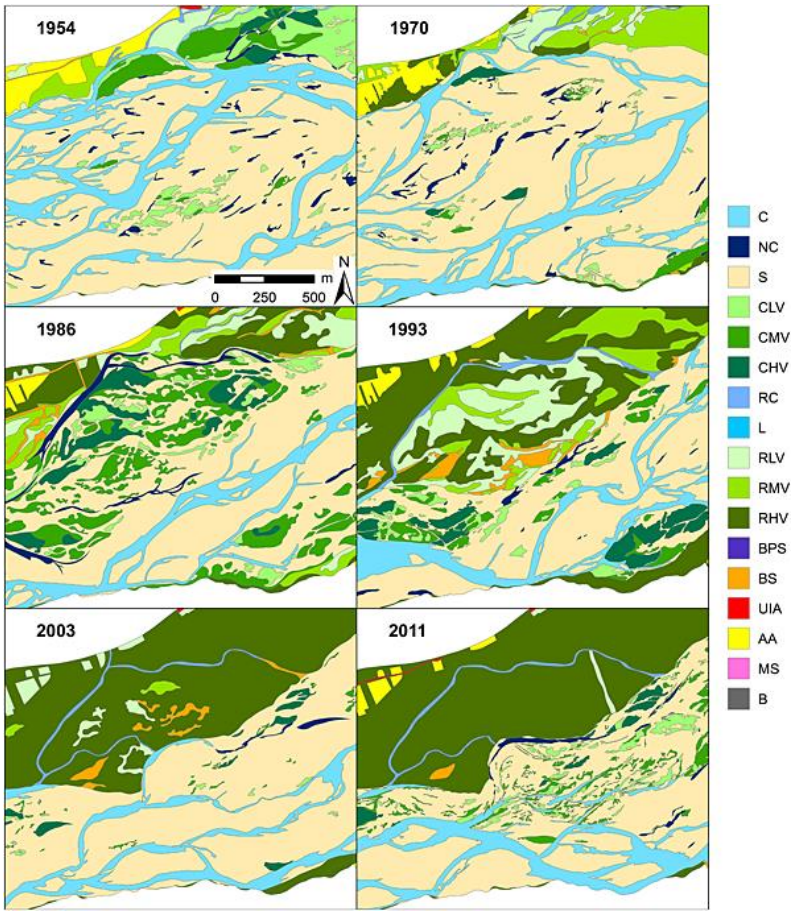
The Tagliamento River is characterized by a flashy pluvio-nival flow regime

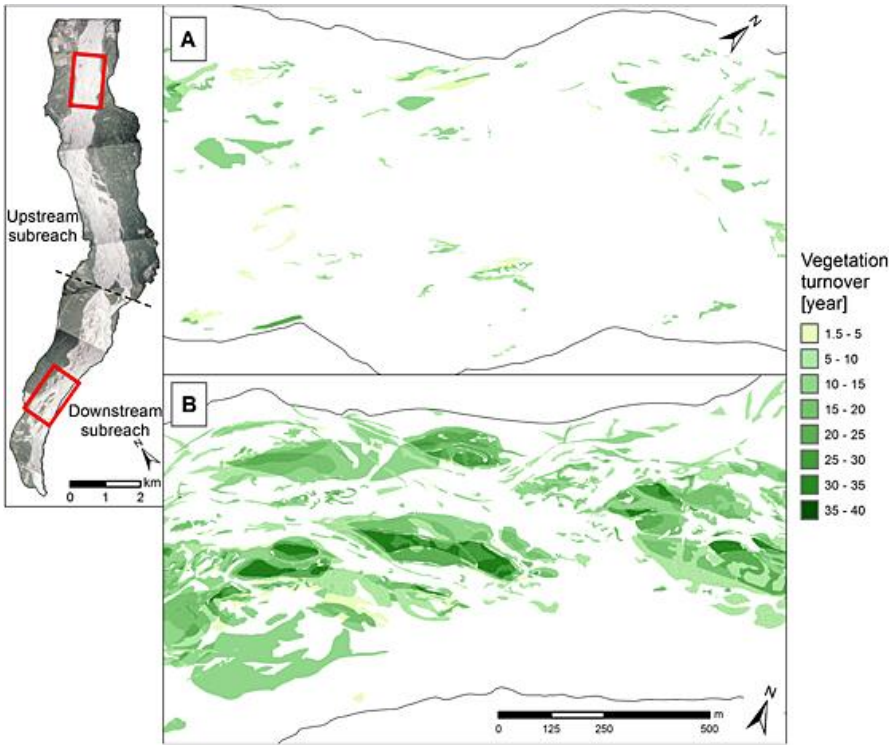




River dynamics

Vegetation turnover in a braided river: frequency and effectiveness of floods of different magnitude

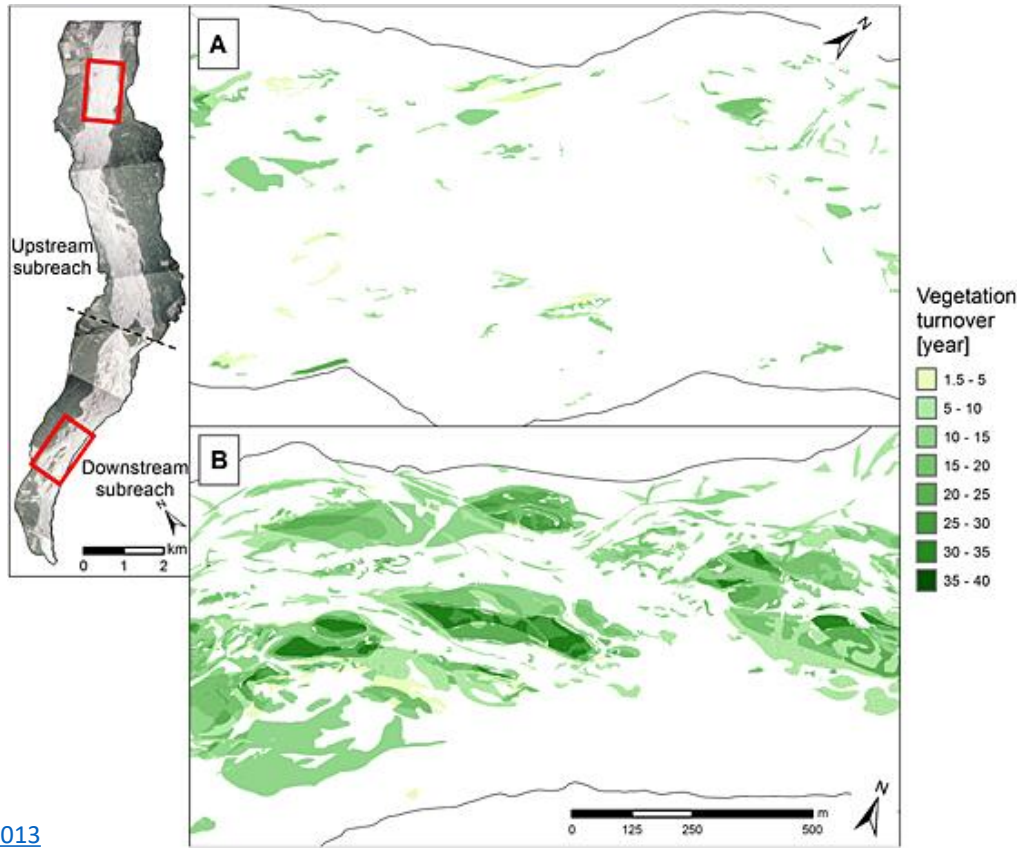




Earth Surface Processes and Landforms
Volume 40, Issue 4, pages 542-558, 22 OCT 2014 DOI: 10.1002/esp.3660
http://onlinelibrary.wiley.com/doi/10.1002/esp.3660/full#esp3660-fig-0005

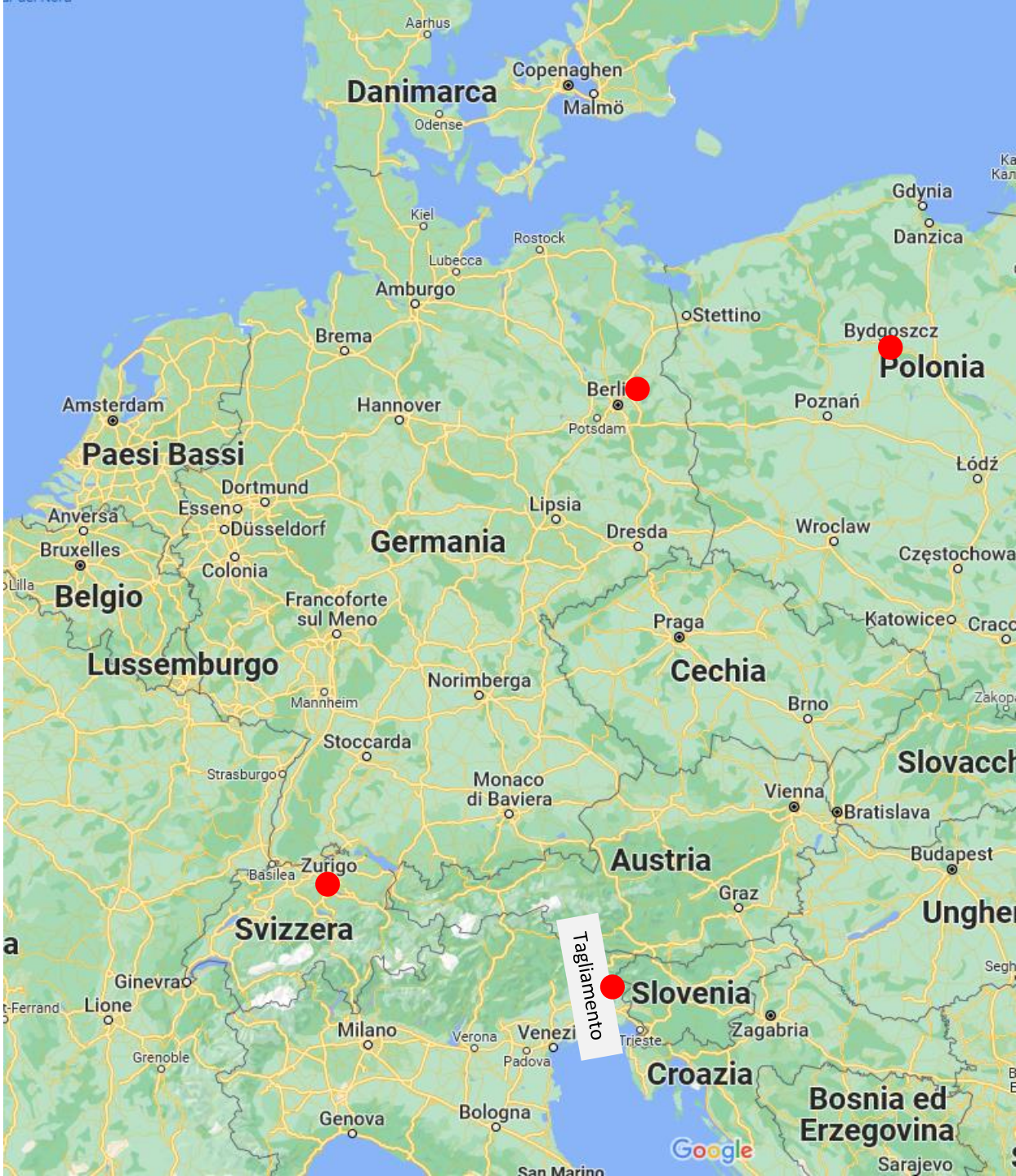
River dynamics

Results show that vegetation turnover is remarkably rapid in the study reach with 50% of in-channel vegetation persisting for less than 5–6 years and only 10% of vegetation persisting for more than 18–19 years.

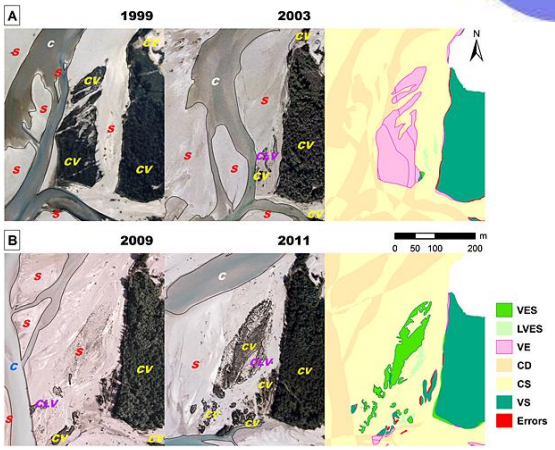


Earth Surface Processes and Landforms
Volume 40, Issue 4, pages 542-558, 22 OCT 2014 DOI: 10.1002/esp.3660
http://onlinelibrary.wiley.com/doi/10.1002/esp.3660/full#esp3660-fig-0013

Partners


Aarhus
Copenaghen
Danimarca
Malmö
Odense
Gdynia
Danzica
Kiel
Rostock
Lubecca
Amburgo
Stettino
Brema
Polonia
Amsterdam
Hannover
Poznań
Potsdam
Paesi Bassi
Łódź
Dortmund
Essen
Lipsia
Anversa
Düsseldorf
Dresda
Wroclaw
Germania
Bruxelles
Częstochowa
Colonia
Lilla
Belgio
Francoforte sul Meno
Praga
Katowice
Lussemburgo
Norimberga
Cechia
Mannheim
Brno
Stoccarda
Strasburgo
Monaco di Baviera
Vienna
Bratislavia
Budapest
Austria
Zurigo
Basilea
Graz
Svizzera
Tagliamento
Slovenia
Ginevra
Lione
Milano
Verona
Venezia
Trieste
Zagabria
Grenoble
Padova
Croazia
Genova
Bologna
Bosnia ed Erzegovina
Google
Sarajevo

Online activities



04/2022

Field week

06/2022

Online activities - Friday afternoon at 14:00

22/04	Presentation of program and activities
	→ presentation of summerschool aims and program, Friuli and Tagliamento background
	→ GIS, Remote sensing introduction
	→introduction about the functioning of rivers in different areas
29/04	Dating riverbanks, analyzing river dynamics of last 10-20 years? /sentinel, orthophotos
06/05	Fluvial dynamics
13/05	Soils, organic matter and nutrients
20/05	Flora and forest monitoring tools
27/05	defining topics and groups
10/06	Result presentation and programmed sampling design

Field week 25 20/06 – 26/06

Week 25	Sun -19/06	Mon -20/06	Tue -21/06	Wed -22/06	Th -23/06	Fri -24/06	Sat 25/06	Sun -26/06
Morning	Travel	.Introduction to Summer School .The week agenda .Hypothesis presentation by groups .Presentation of survey area and definition of survey protocols (experimental design)	Field survey	Field survey	Field survey	**Lagoon day:** visiting Grado and Marano Lagoon by boat	Group work	Travel
Afternoon	Accommodation	Field survey	Field survey	Field survey	Group work	**Lagoon day:** visiting Grado and Marano Lagoon by boat	Presentations	Travel
Evening	Official welcome party	Group work	Group work	Group work	Group work	Free evening in Udine	Farwell	Travel

Places

Paluzza – Cesfam FACILITY

Amaro (Tagliamento)

Lagoon