



**RIBES – River flow regulation, fish BEhaviour and Status**  
EU Horizon 2020 –Marie Skłodowska-Curie Innovative Training Networks (ITN)



## **Methods of Flow and Fish Measurements and Observations in the Field**

The 4<sup>th</sup> Network School of the ITN RIBES

26.06.2022 – 03.06.2022, Flagogna nei Friuli on the Tagliamento, Italy

Organized by IGB, Berlin

Organizing committee:

Dr. Alexander Sukhodolov,

Dr. Franz Hoelker,

Dr. Oleksandra Schumilova

Time Table:

26.06.2022 Arrivals (shuttle bus will be organized to transport from the train station of Casarsa della Delizia, the schedule of the bus will be provided when information on flights and arrivals will be available) (A. Sukhodolov, L. Klatt)

19:00 Reception at Ai Glicini

27.06.2022 9:00-9:30 Opening of the network school (Comoglio and Sukhodolov)

9:30-13:00 Session 1 River Morphology, Hydrodynamics and Hydraulics

9:30 – 10:40 Morphodynamics, Hydrodynamics and Hydraulics  
(A. Sukhodolov)

10:40 – 11:00 Coffee break

11:00 – 11:50 Introduction to topography, hydrometry and sedimentology  
(A. Sukhodolov)

11:50 – 12:30 Fish drag and principles of its measurements  
(S. Cameron)

12:30 – 14:00 Lunch

14:00 – 18:00 Workshop 1 (ERS presentations and discussions  
WP1 and WP2, 8 ERS 15 min presentation and  
10 discussion per each ERS, 2x15 min breaks)

18:30 – 19:30 Committee meetings

28.06.2022 9:00-10:00 Keynote Lecture (Dr. Christian Wolter, IGB, Fishes' ecological requirements inform successful river revitalisation)

10:00 – 10:20 Coffee break

10:20 - 11:20 Seminar: European research funding opportunities (Dr. Christian Wolter)

11:20 – 11:30 Coffee break

11:30 – 12:30 Intro to fish tracking techniques and robotic fish applications (J. Tuhtan)

12:30 – 14:00 Lunch

14:00 – 18:00 Workshop 2 (ERS presentations and discussions continued)  
WP3 and WP4, 8 ERS 15 min presentation and  
10 discussion per each ERS, 2x15 min break)

18:30 Beach party (barbeque)

29.06.2022 9:00-16:00 Field training day:

(a) practical introduction to the river morphology, fish habitats,

and flow structures

- (b) introduction to aerial methods of hydro-morphological scouting
- (c) introduction to experimental facilities of IGB and experimental field sites on the Tagliamento and Arzino (A. Sukhodolov, O. Shumilova, L. Klatt)

lunch will be organized in the field

17:30-18:30 Interactive Session: Dissemination of technical work (report preparation) – Franz Hoelker

19:00 Dinner at Ai Glicini

30.06.2022 9:00-16:00 Hydraulic characterization of fish habitats in rivers and Open Day (with participation of local authorities, ecological activists and fisheries) (A. Sukhodolov, O. Shumilova, L. Klatt)

- (a) basics of topogeodetical measurements (slope of the free surface, mapping bathymetry)

- (b) velocity measurements (floats with drones, ADVs, ADCP)

- (c) fish observations with underwater cameras and drones

lunch will be organized in the field

19:00-20:00 a public lecture about research on the Tagliamento and RIBES project (at Flagogna or other location with invitation for locals)

01.07.2022 9:00-12:30 Practical training on fish observation and tracking (Open Day)

- (a) basics of fish tagging

- (b) basics of telemetry monitoring

(D. Nayqvist, F. Hoelker and L. Klatt)

12:30-14:00 Lunch

14:00-15:00 Anamnesis of Landscape. (artistic multimedia presentation about the Tagliamento by Herwig Turk)

15:00-15:30 Closing the official part of the Network School

Departures (shuttle bus will be organized to transport the train station of Casarsa della Delizia, the schedule of the bus will be provided when information on flights and arrivals will be available)

02.07.2022 8:00-18:00 (Optional) Technical tour to the Soca River

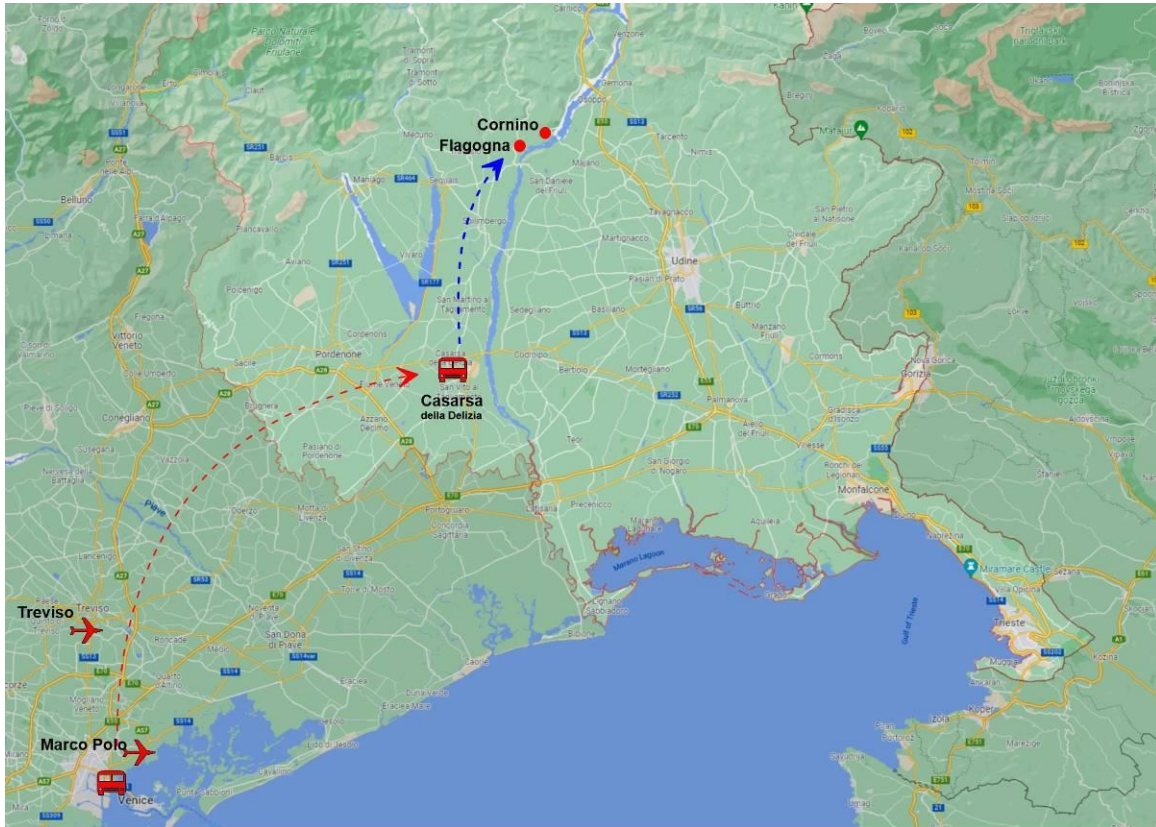
- (a) visit to the Kobarid museum

- (b) rafting tour (Class II-III white water from the

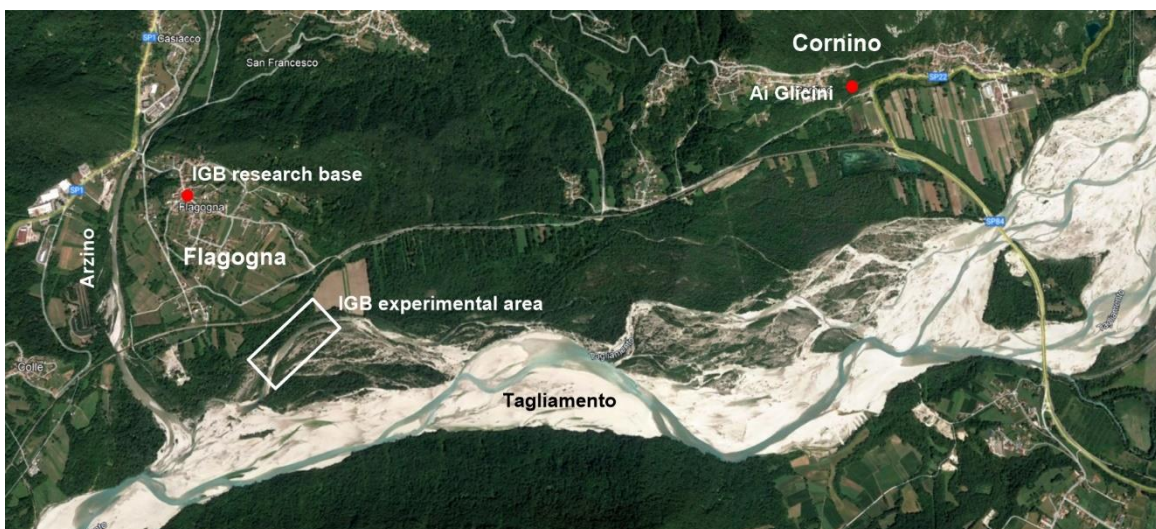
Boca waterfall to Trnovo) (A. Sukhodolov, L. Klatt)

03.07.2022 Departures (shuttle bus will be organized to transport the train station of Casarsa della Delizia, the schedule of the bus will be provided when information on flights and arrivals will be available) (A. Sukhodolov)

Location:



**Arrival/Departure:** by air to Airports Marco Polo or Treviso in Venice, train from Venice to Casarsa della Delizia (about 1 hour 15 minutes), shuttle bus from Casarsa to Flagogna/Cornino.



**Venue:** Ai Clicini Albero Ristorante, via Napoleonica, 4 Cornino, Forgaria nel Friuli (Ud) tel. +39 0427 808026, info@aiglicini.com <http://www.aiglicini.com/en/hotel.html>

