



**Metodologia per individuare i settori montani dove ospitare i b
transfrontalieri per far fronte alle richieste del territorio (acqua
potabile, irrigazione, idroelettrico...)**

**Méthodologie pour identifier les zones de montagne où des ré
transfrontaliers peuvent être implantés pour répondre aux dé
du territoire (eau potable, irrigation, hydroélectricité...)**

PROGETTO BECCA

06.12.2024 – Torino

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INRAE



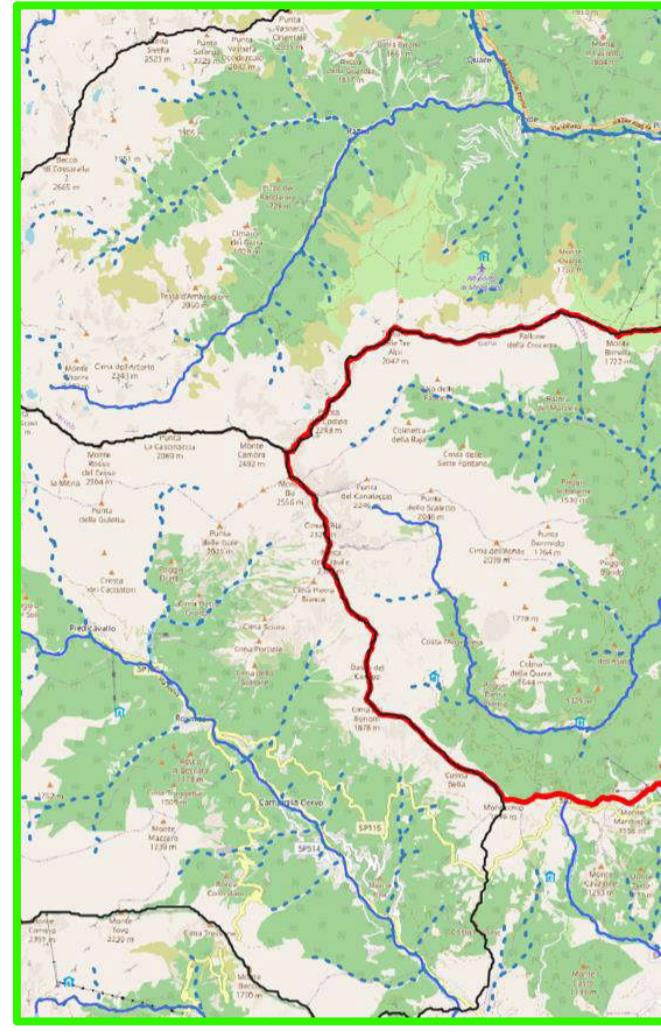
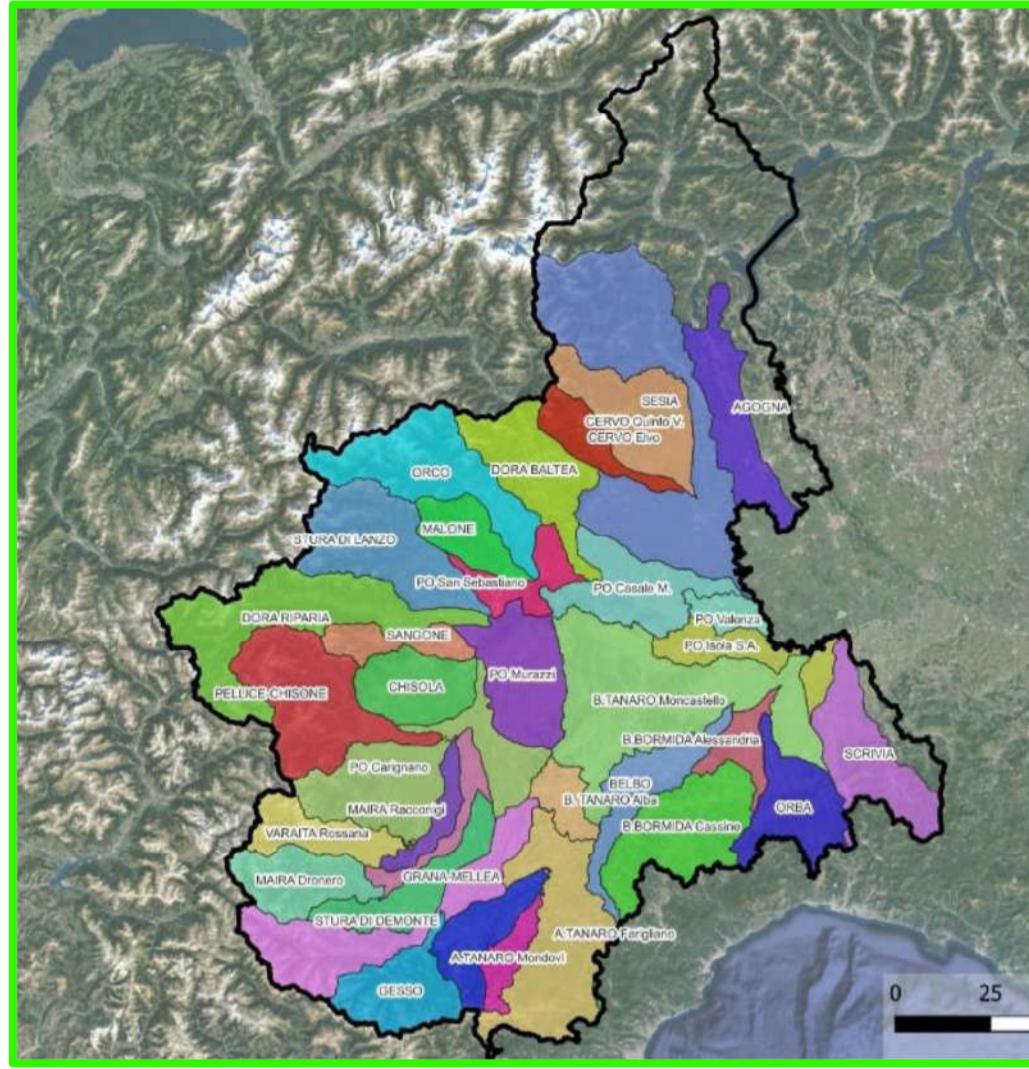
**Politecnico
di Torino**
Department of Environment,
Land and Infrastructure
Engineering



**Politecnico
di Torino**
Dipartimento
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Edile e Geotecnica

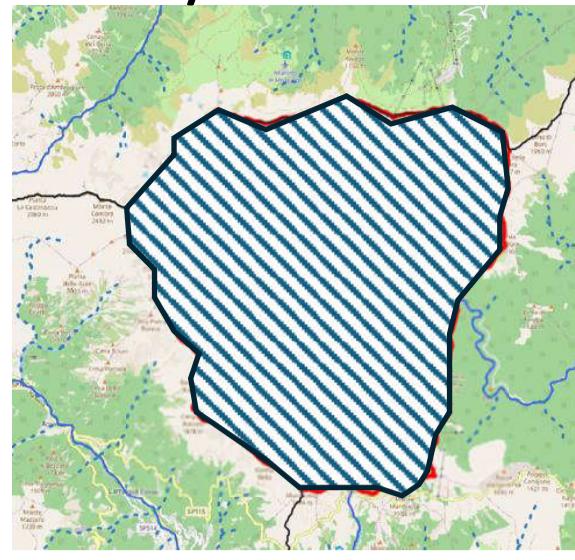


Dalla pianificazione a grande scala, allo specifico sottobacino

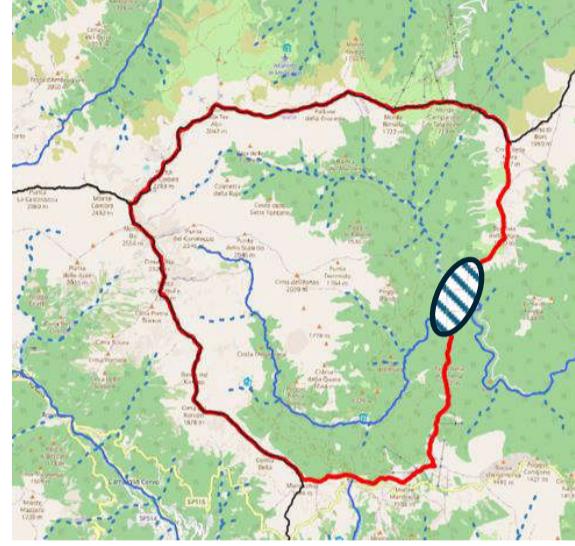


De la planification à grande échelle, à la planification spécifique sous-bassin, à la planification locale

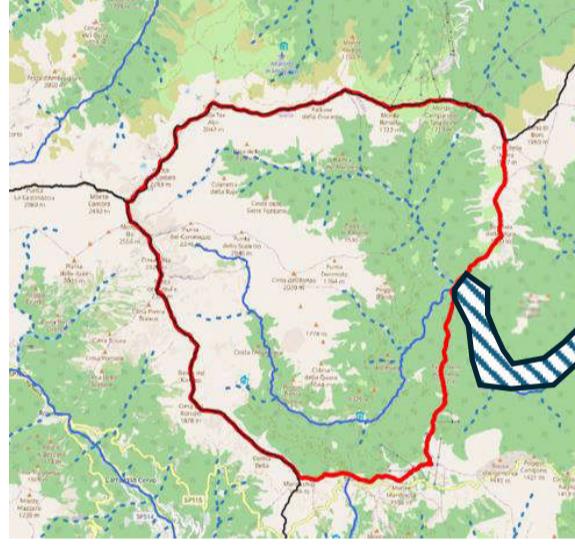
Ressource en eau Débits extrêmes Production de sédiments

Bacino / Bassin

**Volume envahi (morphologie)
Géologie et caractéristiques
géotechniques**
Autres risques (par exemple avalanches)

Sbarramento / Barrage

**Risque hydraulique en aval
Utilisateur (infrastructure)**

Territorio / Territoire

Modellazione della risposta idrologica del bacino

Modélisation de la réponse hydrologique du bassin

Software GEOframe

- Sistema modellistico idrologico semi-distribuito open source / Système de modélisation hydrologique semi-distribuée open source
- Adottato da Autorità di Bacino del fiume Po / Adopté par l'Autorité du bassin du Pô
- Livello di dettaglio flessibile (caratterizzazione per sotto-bacini) / Niveau de détail flexible (caractérisation par sous-bassin)
- Analisi geomorfologica + idrologica / Analyse géomorphologique + hydrologique

Altri modelli?
Autres modèles?

Esperienza pregressa vs uso profondo Expérience antérieure vs utilisation



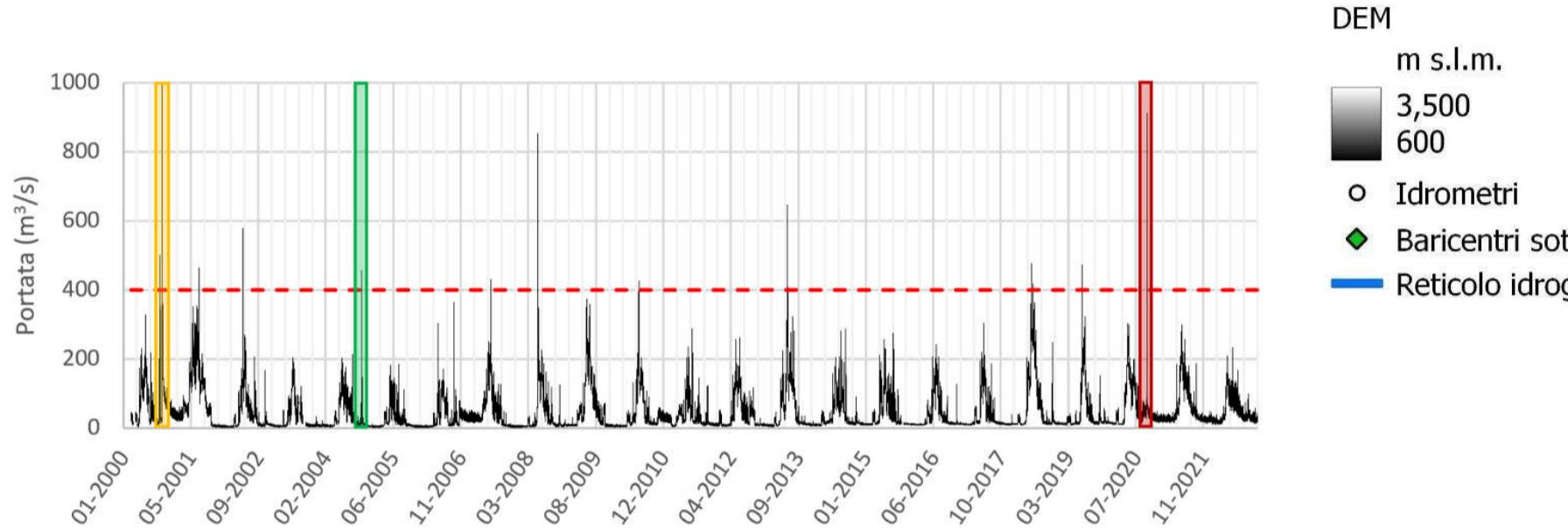
Applicazione Valle d'Aosta Application à la Vallée d'Aoste

18 stazioni di misura della portata

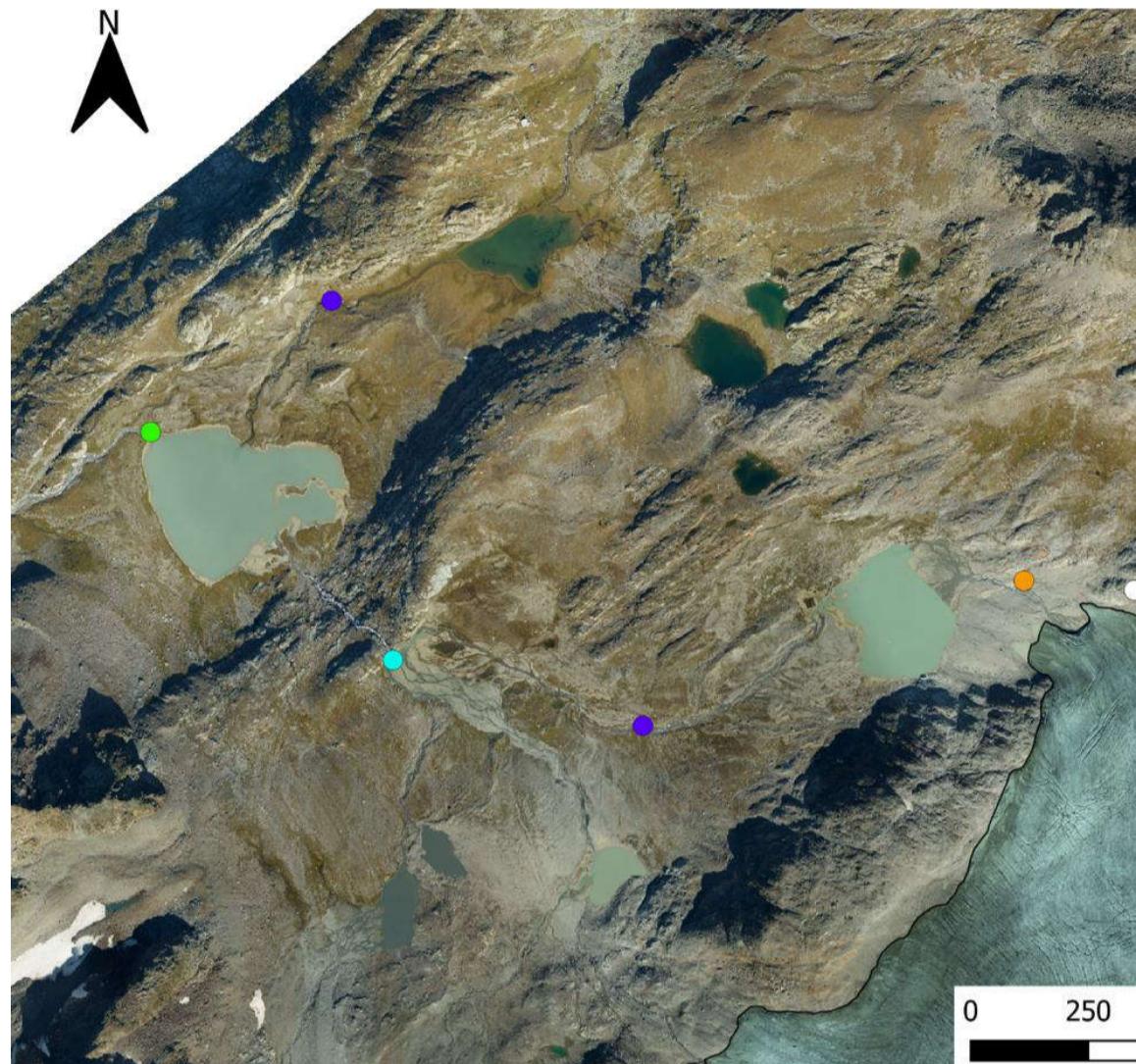
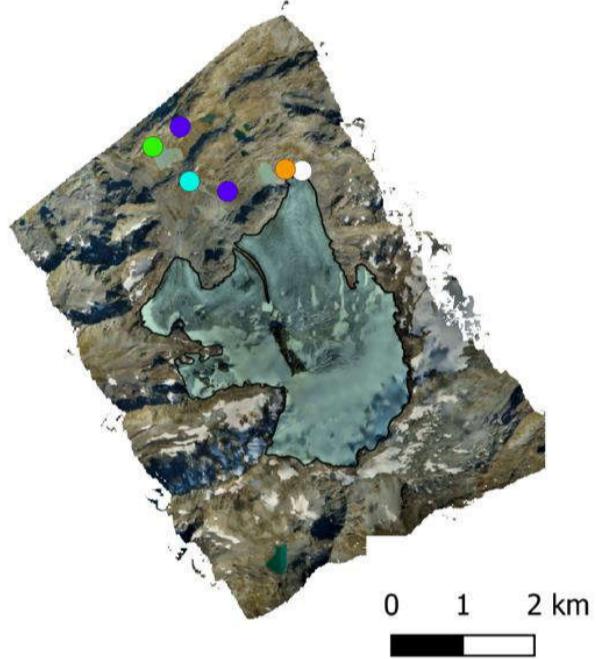
18 stations de mesure du débit

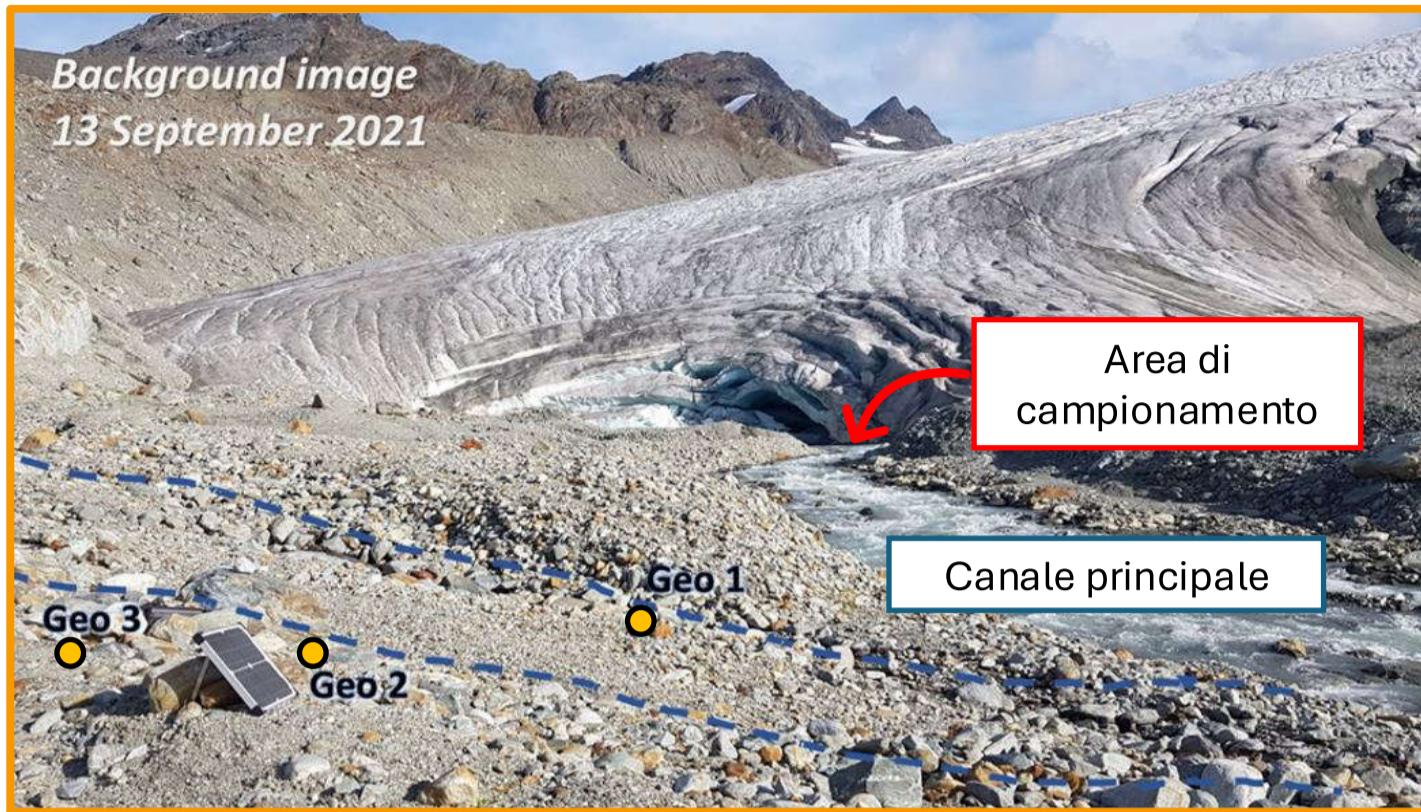
261 punti per la restituzione dei risultati

261 points pour la restitution des résultats

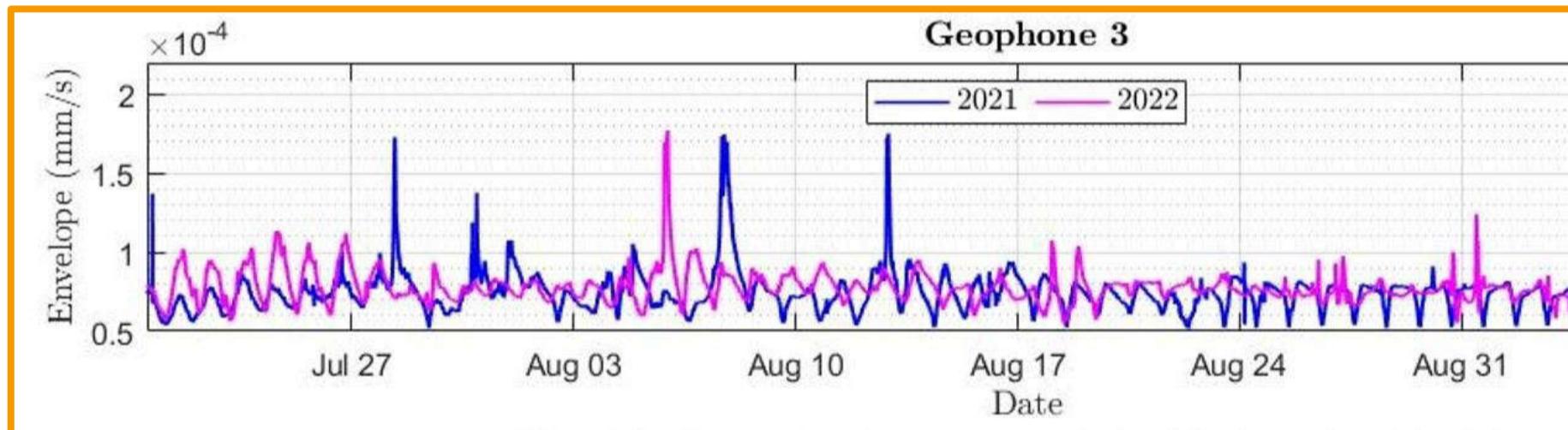


Attività di monitoraggio/modellazione nella Activités de surveillance/modélisation dans





Attività di monitoraggio/modellazione nella zona del ghiacciaio Activités de surveillance/modélisation dans la zone du glacier



Dati, metodi e modelli per le applicazioni in condizioni di p... Données, méthodes et modèles pour applications en cond...

Earth Syst. Sci. Data, 16, 1503–1522, 2024
<https://doi.org/10.5194/essd-16-1503-2024>
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Earth System
Science
Data

FOCA: a new quality-controlled database of floods and catchment descriptors in Italy

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Abstract. Here we present FOCA (Italian FlOod and Catchment Atlas), the first systematic collection of data on Italian river catchments for which historical discharge time series are available. Hydrometric information, including the annual maximum peak discharge and average daily annual maximum discharge, is complemented by several geomorphological, climatological, extreme rainfall, land-cover and soil-related catchment attributes. All hydrological information derives from the most recently released datasets of discharge and rainfall measurements. To enhance the reproducibility and transferability of the analysis, this paper provides a description of all the raw

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Features of the...

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5 Correspondence to: Giulia E...

Abstract

In Italy, a complete and upda...
characteristics of their upst...
comprehensive dataset of 521

10 surface area and volume, th...
land cover and soil-related at...
from the General Department...