



## **THE PRODUCT**

- Surface time series
- Annual / multi-year occurrence
- Water level monitoring using spatial altimetry (including SWOT)
- Qualification of water surface/height relationships
- Volume variation
- Temporal monitoring of a river's elevation profile

## **GOALS**

- Measure the impact of climate change on resource availability
- Provide knowledge of water resources essential for the implementation of public policies
- Anticipate the risk of drought and manage short-term crises
- Validate and complete in situ data

## **FOR WHO?**

- Intergovernmental organization
- Government
- Community
- Water agency
- Basin manager
- Reservoir manager
- Science

## **CHARACTERISTICS**

- Combined use of satellite images and spatial altimetry data
- Automated water surface detection algorithm (ExtractEO)
- Final products in the form of synthetic graphics (file or interface)
- Intermediate products in raster and vector format
- Local to national scale
- Main partners: CNES, CS Group, vorteX-io, Hydro Matters, CLS, Noveltis, LEGOS

## **REFERENCES**

- France2030 - Hydrologie spatiale
- SWOT Cal/Val
- ESA Climate Change Initiative - Lakes
- ST3TART - Sentinel-3 validation

- ESA Dragon

## **CONTACT**

- Hervé Yésou : [herve.yesou@unistra.fr](mailto:herve.yesou@unistra.fr)
- Jérôme Maxant : [maxant@unistra.fr](mailto:maxant@unistra.fr)

Parc d'innovation,  
300, bvd Sébastien Brant  
67412 Illkirch-Graffenstaden  
<https://sertit.unistra.fr/en/geographic-information-from-the-sky>