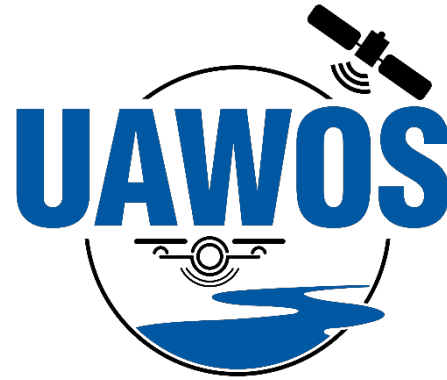


UAWOS Consortium



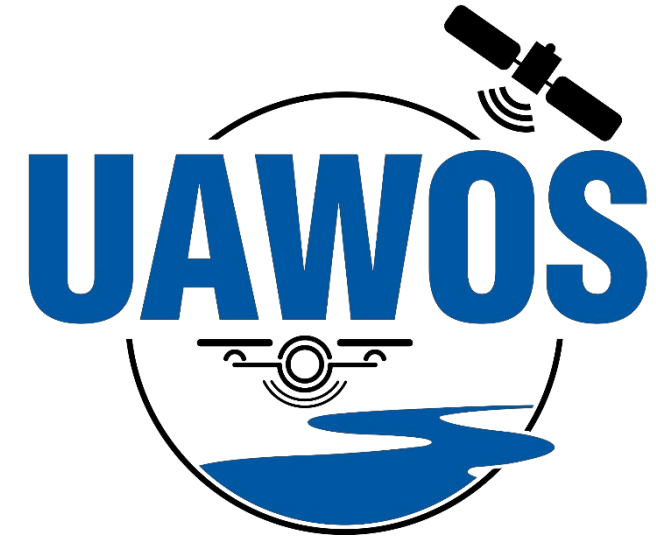
UAWOS

Unoccupied Airborne
Water Observing System



UAWOS

<https://uawos.dtu.dk>



Lobelia.

Coordinator Contact

Peter Bauer-Gottwein

pbau@dtu.dk



Funded by
the European Union

The next step in river hydrometry

The UAWOS project, funded under Horizon Europe, develops airborne and contactless hydrometric sensing technology to inform climate change adaptation, flood risk assessment and surveillance/management of extreme hydrologic events in remote, hard-to-reach and poorly monitored rivers. We aim to bring sensing technology and surveying workflows to the market and demonstrate data value in a range of use cases in alpine, Arctic and tropical regions.

Using UAWOS technology, you will be able to

- Perform river shape and conveyance control more effectively and cheaper than with traditional in-situ technology
- Perform contactless river discharge monitoring with an accuracy of better than 15%
- Parameterize and inform hydraulic models used in flood risk assessment and flood forecasting
- Validate water surface elevation observations provided by satellite earth observation
- Estimate river discharge from water surface elevation time series at virtual stations



UAS Hydrometry payloads

- Radar altimeter
- Tethered sonar
- Water penetrating radar
- Doppler radar
- Doppler laser

Surveying services

- Water surface elevation
- Bathymetry
- Velocimetry
- River Discharge

Applications

- River shape and conveyance control
- Contactless river discharge
- Hydraulic modeling
- Validation and enhancement of satellite EO

Target regions

- Remote and hard-to-reach areas
- Alpine regions
- Tropical regions
- Arctic regions