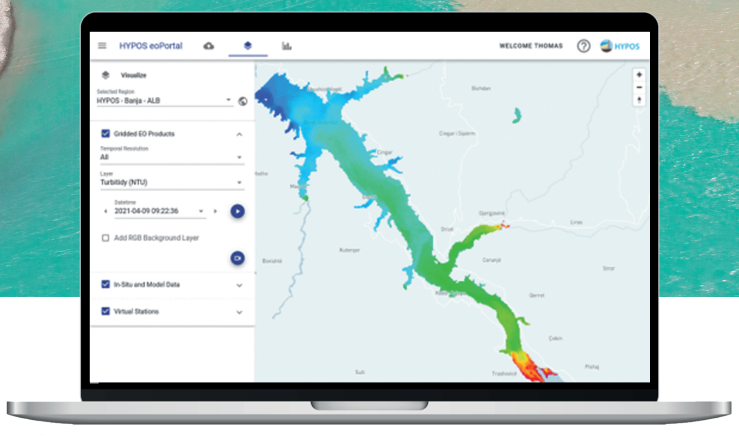
HYPOS

Your online toolbox for Sediment Management

With HYPOS, operations managers of hydropower reservoirs gain quick access to robust and cost efficient water quality data, in particular to sediment related parameters. By combining satellite based with in situ and modelling data the online toolbox offers valuable decision support. HYPOS eases sediment management activities or helps detecting emerging algae blooms.

Improve your sediment management practices!



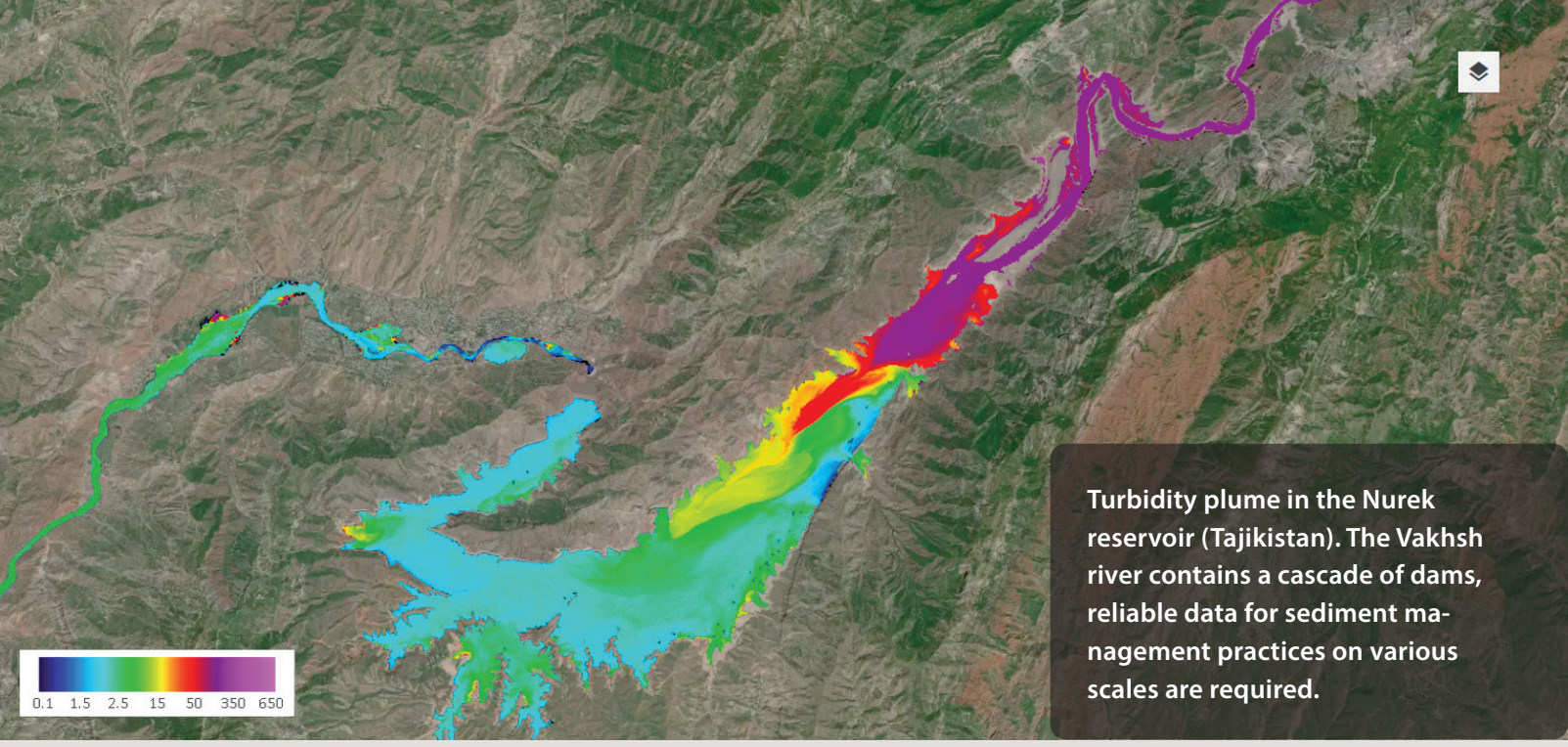
MAIN APPLICATIONS:

- **Operational monitoring of reservoirs and river systems**
- **Reporting and forecasting of flows and sediment states**
- **Flood control and damage prevention**
- **Discharge management: regulate water withdrawal and flushing events**
- **Sediment management: Optimise time and area of dredging operations**

KEY BENEFITS

+ Easy access to key water parameters
+ Operational data of even remote regions worldwide
+ Panoptic view on entire river systems
+ Robust data with high temporal and spatial resolution
+ Time savings due to speedy cloud processing and intuitive interface

EOMAP



Turbidity plume in the Nurek reservoir (Tajikistan). The Vakhsh river contains a cascade of dams, reliable data for sediment management practices on various scales are required.

KEY TECHNICAL PARAMETERS

Satellite-derived information

Data are based on EOMAP's renowned MIP system and bio-optical modelling algorithms. In addition, the datasets have been validated in four hydropower sites across Europe.

+ Turbidity [FTU/NTU]
+ Water level [m]
+ Total Suspended Matter [mg/l]
+ Water Surface temperature [°C]
+ Chlorophyll a [µg/l]
+ Harmful Algae Bloom (HAB) Indicator
+ Evaporation rates [mm]
+ Land cover dynamics

Hydrological model information

HYPOS offers direct access to data based on the global HYPE model (WWH) by the Swedish Meteorological and Hydrological Institute (SMHI). Locally customized models are available upon request.

+ River Discharge [m^3/s]
+ Precipitation [mm]
+ Sediment Concentration [mg/l]
+ Sediment Load [kg/d]
+ Air Temperature [°C]
+ Soil Moisture [-]

SERVICE PACKAGES / PRICING

	Standard	Premium
Spatial Resolution	10 – 30 m	2 m
Temporal Resolution	up to 3x / week	up to daily
Coverage	since 1980s	since 2022
Data availability	NRT	NRT

Example:

Please request an individual quote at **wq@eomap.de**.

Try hypos.eoapp.de and monitor hydropower reservoirs from the comfort of your desk!

EOMAP
detect more.