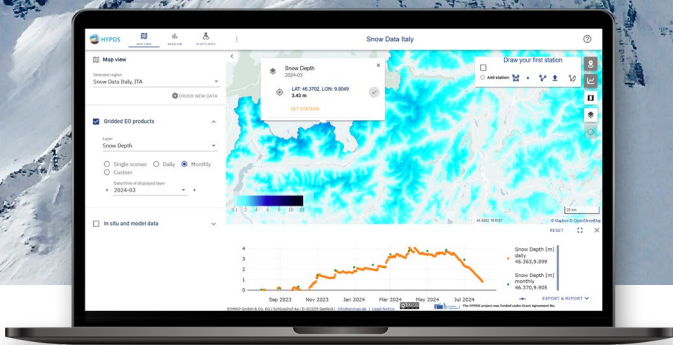


Snow Monitoring from Space

Overcoming the limitations of in-situ measurements by accessing satellite-based near-real-time (NRT) and historical data of snow.

Receiving the key snow parameters snow water equivalent and snow depth at the tips of your fingers.

Enjoy an overview of your catchments snow situation and a valuable decision support.



BENEFITS

The impact of snow continues to rise in importance as sustainable energy resource for hydropower facilities, drinking water resource in hot summers, flood parameter for water management, or parameter for insurances. Satellite-derived data become an invaluable information source to:

- + Cover **large remote areas** independent of th reachability
- + Monitor snow in **near-real-time** on a daily basis
- + **Go back in time** to create crucial information for trends and to understand impacts of climate change
- + With affordable pricing compared to in-situ measurements or lidar flights
- + **Independent and cheap** data source
- + **Easy visualization and direct analysis** possible via the eoapp Hypos

APPLICATIONS



Hydropower
Capacity planning



Energy Trading
Price development



Insurances
Independent source



Drinking Water
Availability of water stored in snow



Water management
Identify trends, alert system

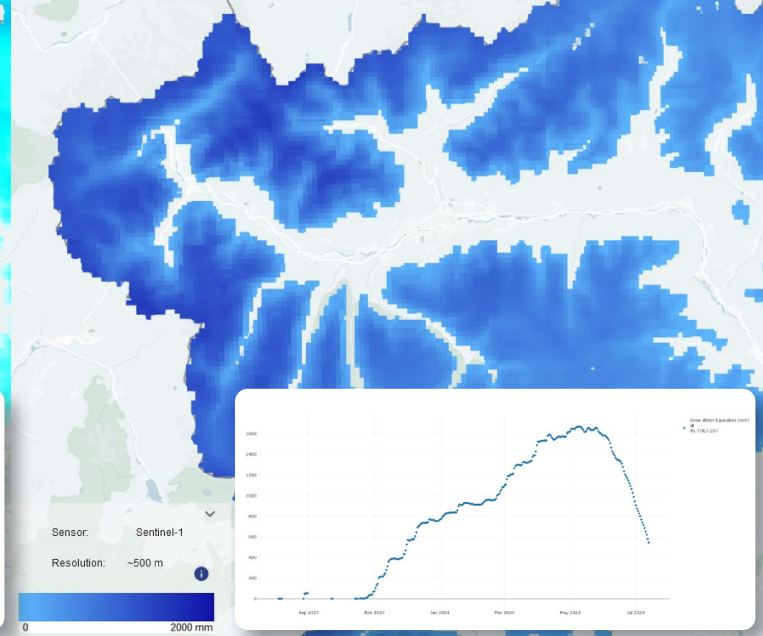
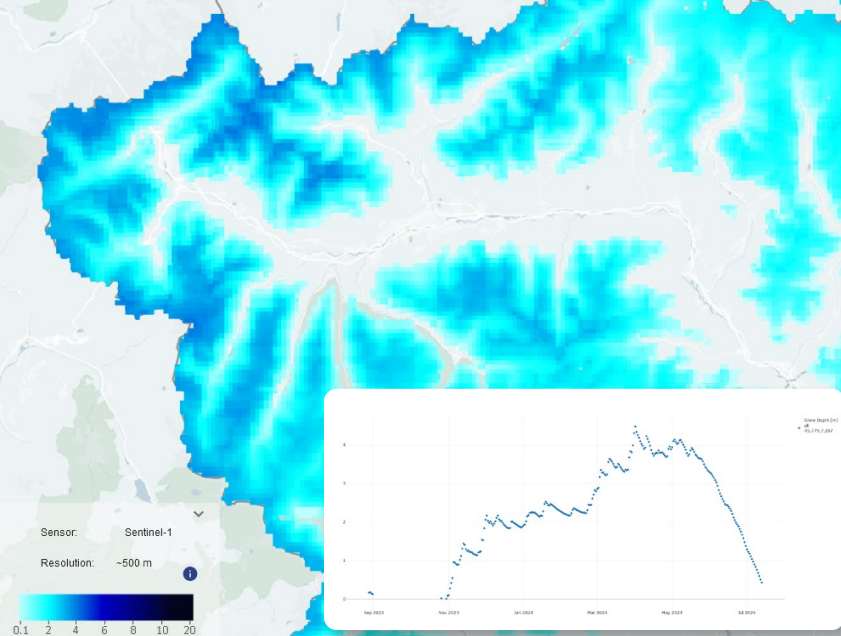


Weather services
Improvement of meteorological services



Contact us
at eomap.com





Alps, March 2023: Snow depth/ SD (left) and snow water equivalent/ SWE (right)

Data Source: Copernicus, Snowcap, EOMAP



Baseline
Go back in time for up to 40 years

Historical analysis

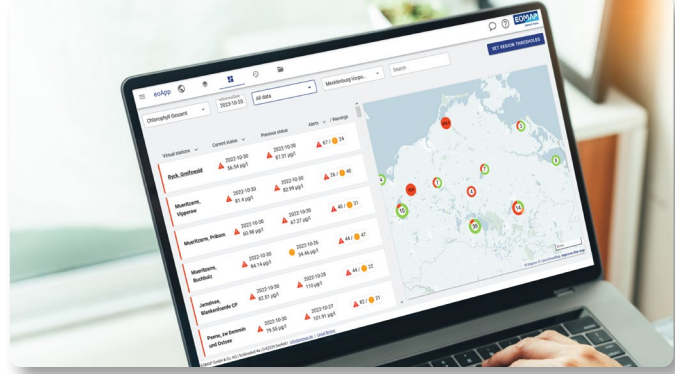
- + Understand seasonality
- + Assess extreme values in long term context
- + Detect trends and natural variability
- + Identify spatial patterns



Monitoring
Subscription for daily data

Daily analysis

- + Near-real-time processing of current satellite scenes
- + Fast overview of all areas of interest (AOIs)
- + Statistics and visualization in the dashboard
- + Identify spatial patterns



Alert
in combination with Monitoring

Direct notifications when thresholds are exceeded

- + Notification via E-Mail
- + Definition of own and site-specific thresholds
- + Combination of different data for early warning indicators

