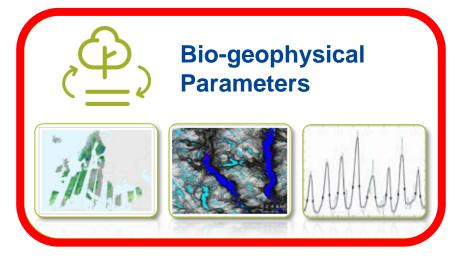


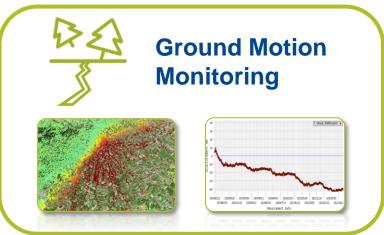
CLMS portfolio: Categories of products

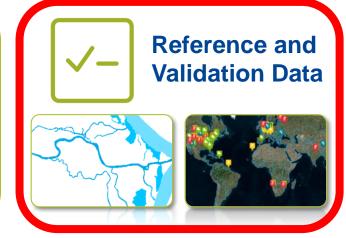












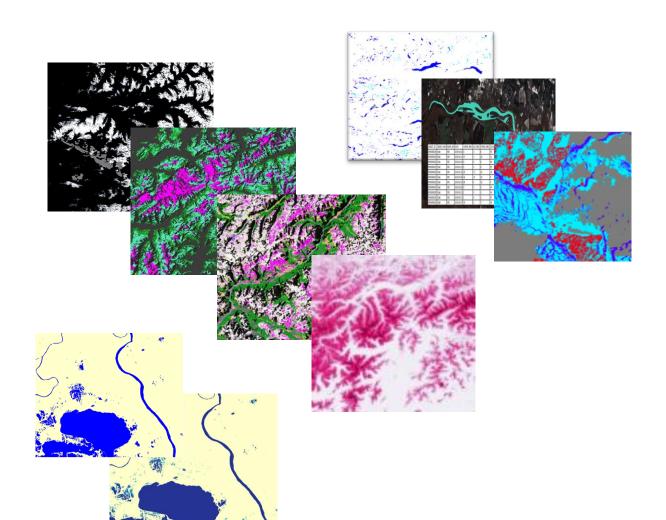








High Resolution Water Snow and Ice (HR-WSI)



- HR-WSI provides detailed monitoring of snow, ice, and water bodies across Europe
- Based on Sentinel-1 and Sentinel-2 images
- Spatial extent: EEA-38+UK
- Temporal extent: 2016-present
- Spatial resolution: 10-60 meters
- Production: Near-Real-Time (NRT), yearly and multi-yearly products
- CRS: UTM/WGS84 (NRT)
 ETRS89 LAEA (annual, multi-yearly)
- Information on the access points can be found at https://land.copernicus.eu/en/products/



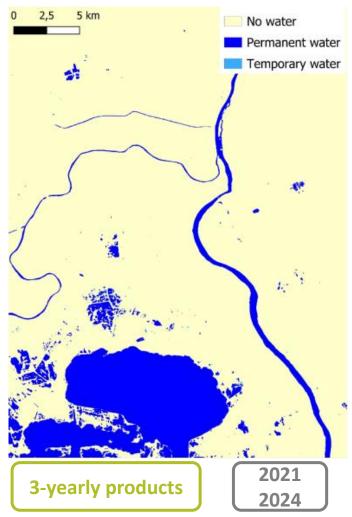






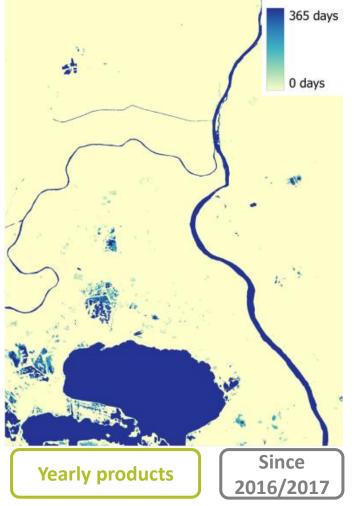
High Resolution Water Snow and Ice (HR-WSI) products

High Resolution Water Layer (HRWL)





Water Cover Duration (WCD)





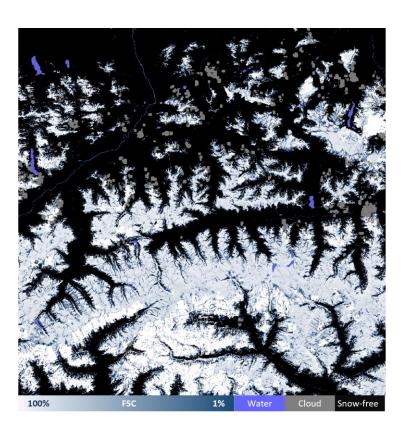






High Resolution Water **Snow** and Ice (HR-WSI) products

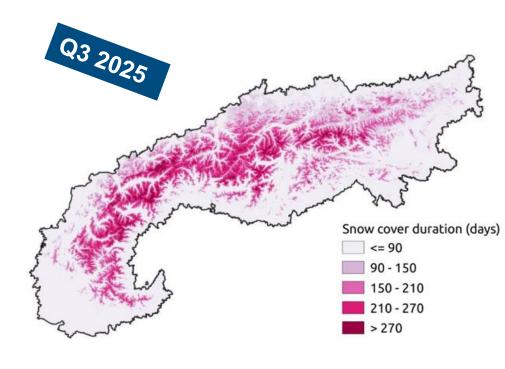
Fractional Snow Cover (FSC)



Wet/Dry Snow (WDS)



Snow Phenology (SP): Snow Cover Onset, Snow Cover Melt-out, Snow Cover Duration



NRT products

Continuous since 2016

Yearly products

Since 2016/2017







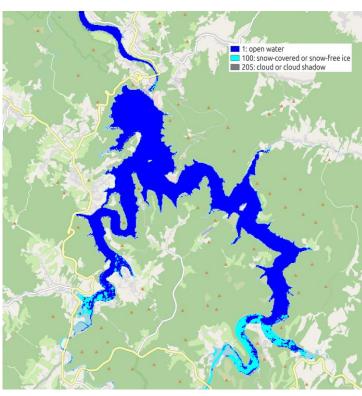


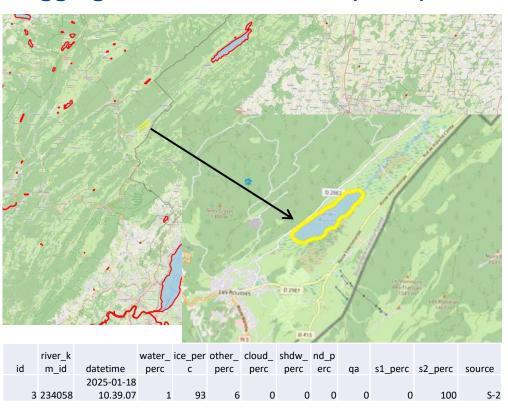
High Resolution Water Snow and Ice (HR-WSI) products

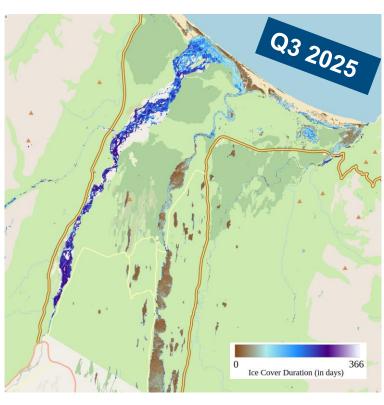
Water Ice Cover (WIC)

Aggregated Water Ice Cover (AWIC)

Ice Cover Duration (ICD)







NRT products

Continuous since 2016

Yearly products

Since **2016/2017**

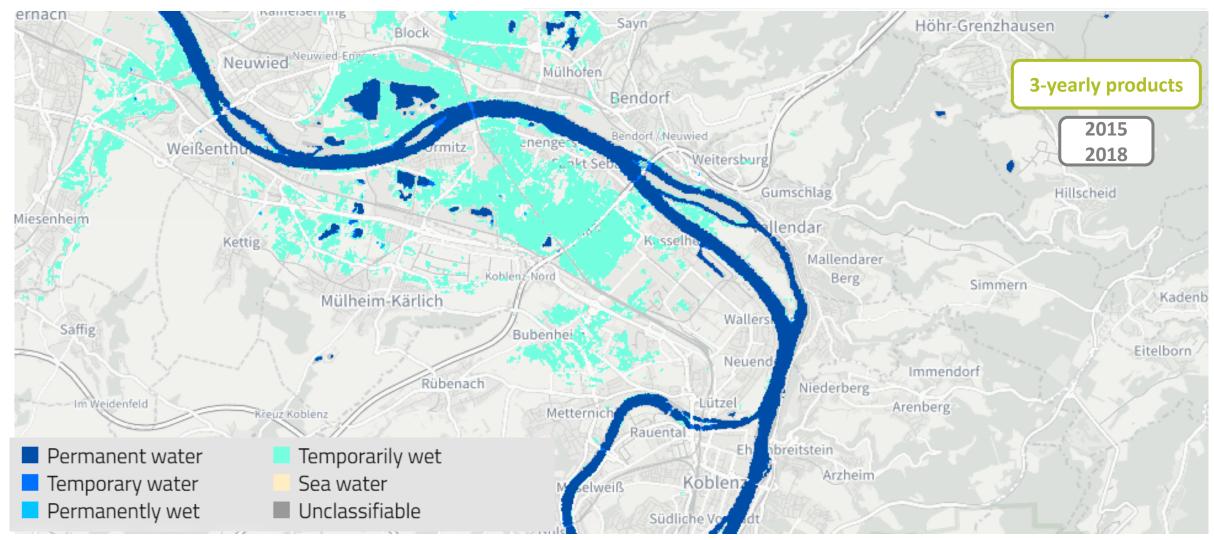








HRL-WAW: Water and wetness – phased out



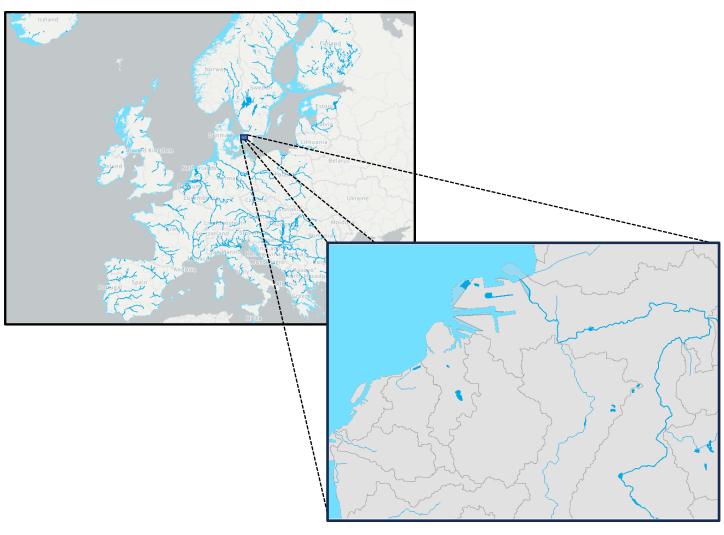








Current EU-Hydro product available



- River network (v1.3) and drainage network (beta) database
- Based on photointerpretation of water bodies and drainage model from EU-DEM
- Spatial extent: EEA-38+UK
- Temporal extent: 2006-2012
- MMU: 1ha
- CRS: ETRS89 LAEA
- Available for download at <u>https://land.copernicus.eu/en/products/eu-hydro/eu-hydro-river-network-database</u>









Expected EU-Hydro suite of products

Raster layers

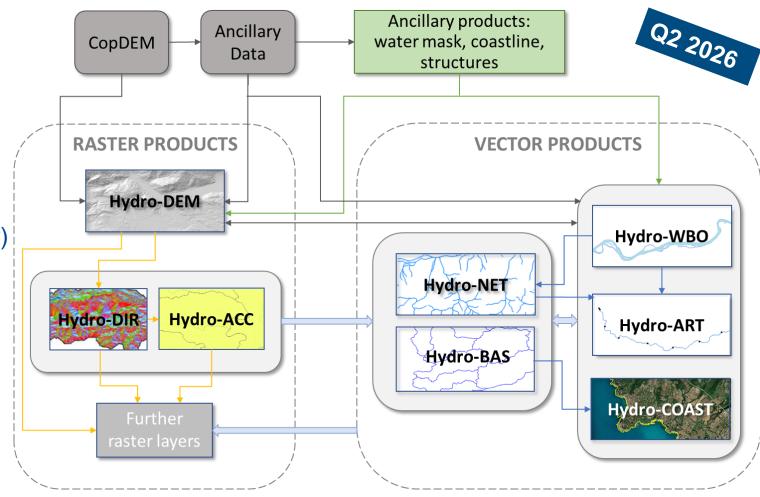
- Hydrologically conditioned DEM
- Flow direction
- Flow accumulation

Vector layers

- River network
- Watershed boundaries
- Coastline (as stand-alone product)
- Water bodies (inc. reservoirs)
- Artificial structures (barriers and protective structures)

Input data:

- Copernicus DEM 10 m
- Ancillary data (vector and raster data, VHR)







Ramp-up phase (until Q2 2025), Full production phase (until Q2 2026).







Thank you!

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