

New CryoSat data to boost understanding of the oceans

31 August 2023

A new CryoSat sea level anomaly product designed to enable ocean science and the development of operational marine applications has been released.

The dataset – presented in the Nature Research journal Scientific Data and currently available for download – provides a unique perspective on ocean surface levels, thanks to the mission’s novel orbit and its extended lifespan of more than 13 years.

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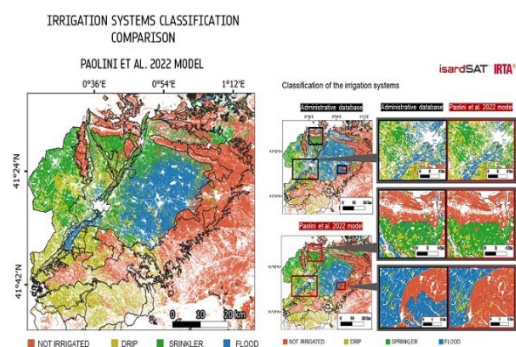
Synergy of space data helps modernise irrigation systems

30 August 2023

The growing demands on agriculture, coupled with the climate crisis, are pressurising Earth’s valuable freshwater resources and making assessment of water practices ever more important.

A study combining data from ESA’s SMOS mission with those from the Copernicus Sentinel-2 and Sentinel-3 missions, enables accurate tracking of irrigation on a field level to help improve agricultural water management.

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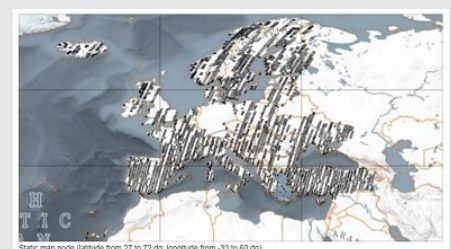


LATEST DATA NEWS

ALOS PRISM L1C European Coverage Cloud Free data collection now available for users

30 August 2023

As part of Earthnet’s Third Party Missions Programme framework, ESA is pleased to announce that the ALOS PRISM L1C European Coverage Cloud Free data collection is now available for research purposes.



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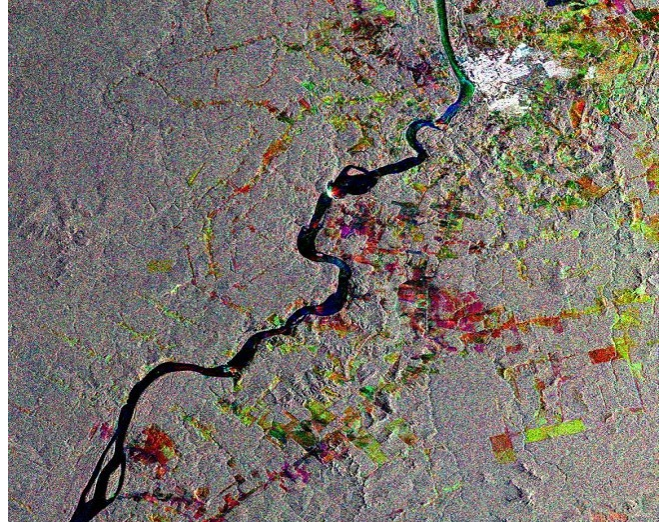
Highlight on:

Tracking the world's forests from space

29 August 2023

As human activities continue to threaten the planet's forests, data delivered by satellites are boosting global efforts to conserve these crucial natural resources.

Forests are a vital element of the Earth system, hosting thriving ecosystems, regulating the climate, and helping to maintain the water cycle.



Earth observation data disseminated by ESA are supporting efforts to reduce deforestation by increasing transparency and accountability, as well as promoting conservation by guiding sustainable land use strategies. You can browse and access data for forest monitoring online.

The agency is also developing an upcoming mission named Biomass that is set to transform how forests are monitored from space.

ESA has been tracking the state of the world's forests for decades, thanks to a succession of Earth observing missions carrying a variety of instrumentation.



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UPCOMING EVENTS



13/11/2023

EarthCARE pre-launch Science and Validation Workshop
Registration deadline on 15 October

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27/11/2023

VH-RODA Workshop
Abstract submission deadline on 16 October

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The 5th Space for Hydrology Workshop
Registration deadline on 29 October

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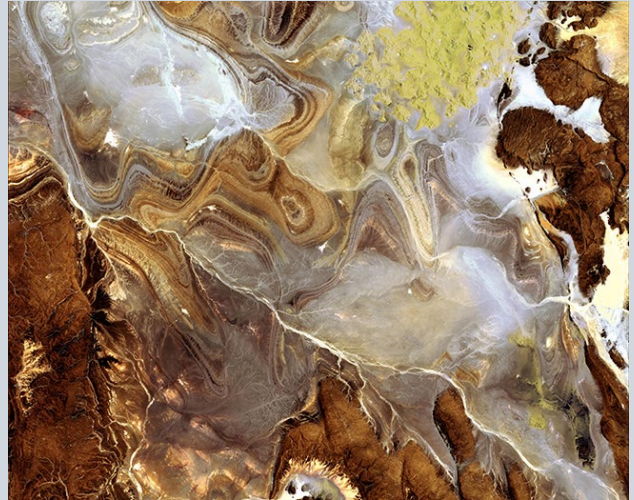
Focus on: Data access

How to access ALOS-1 data

A new collection of cloud-free ALOS-1 images over Europe was recently released, which is a subset of the satellite's PRISM archive, containing data over Europe, Africa, Greenland and the Middle East.

Did you know that data products from all three of ALOS-1's instruments are available to download through ESA's Third Party Missions programme?

Operational from 2006 to 2011, ALOS-1 (Advanced Land Observation Satellite) was the first satellite in JAXA's (Japan Aerospace Exploration Agency) ALOS series and carried three instruments: The Advanced Visible and Near-Infrared Radiometer-2 (AVNIR-2), the Phased Array L-band Synthetic Aperture Radar (PALSAR), and the Panchromatic Remote-Sensing Instrument for Stereo Mapping (PRISM).



ALOS AVNIR-2 image of Tanezrouft Basin in the Sahara Desert. Copyright: JAXA, ESA

Through an agreement with JAXA, ESA make data products available from these instruments from data acquired at ESA ground stations while the satellite was operational.

In addition, a number of collections are available which were produced for ESA research projects, including TropForest, a project that created a global database of forest imagery in 2010, and the International Polar Year, an international effort to study ocean and climate change in the Polar Regions between 2007 and 2009.

Most of the data collections are freely available to download for anyone with an account in ESA's EO Sign In system, while a number require a Fast Registration to request the data first.

[Learn more about the ALOS-1 collections](#)

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