

EARTH ONLINE

NEWSLETTER

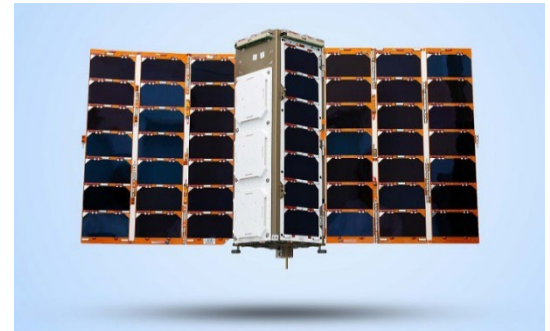
1 December 2023

ESA promotes radio frequency monitoring as Spire becomes TPM

23 November 2023

The global company Spire, which specialises in using continuous global monitoring to track aircraft, ships and weather patterns using a large constellation of CubeSats, is now an ESA Third Party Mission.

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Swarm set for continued success after 10 years in orbit

22 November 2023

ESA's mission to unravel the mysteries of Earth's magnetic field has just reached a decade of successful operations – and it is set to continue enabling novel scientific investigations into Earth's natural processes for many years to come.

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LATEST DATA NEWS

GEOSAT-2 Spain coverage: new collection open for users

28 November 2023

In the framework of ESA's Earthnet Third Party Missions programme, we are glad to announce that there is a new collection open for users: the GEOSAT-2 Spain Coverage collection.

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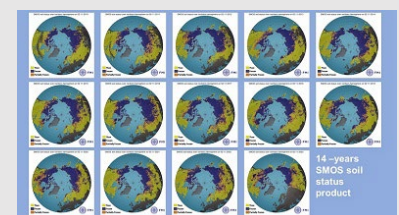


14 years of reprocessed SMOS Freeze/Thaw soil status products are now available

28 November 2023

The products are based on the latest version 3 of the processor which is in operation since October 2023. This version of the product includes several scientific enhancements and product format updates.

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Highlight on:

CryoSat safe and sound

24 November 2023

In 2016, the operators flying CryoSat at ESA's European Space Operations Centre (ESOC), in Darmstadt, Germany, noticed that the spacecraft was using up its 37 kilograms of compressed nitrogen much faster than expected.

This meant that a fuel leak threatened to bring the mission to an end in 2025. Therefore, on 21 November, operators at ESOC initiated a swap to a back-up system, as CryoSat passed over Svalbard station on Spitzbergen Island and ESA's Kiruna station in Sweden—thus saving the satellite for years to come.



CryoSat, ESA's satellite dedicated to measuring the thickness of polar sea ice and monitoring changes in the ice sheets that blanket Greenland and Antarctica, was designed to last roughly 5 years, but it has now spent over 13 years in orbit, proving invaluable for humankind's polar ice records.

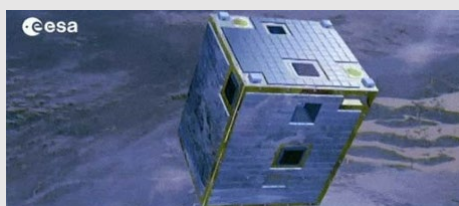
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Have data from ESA's various satellite missions benefited your work? Would you like to share the results from your research?

Contact us and we may be able to publish an article or conduct an interview related to your experience.

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UPCOMING EVENTS



esa

18/01/2024

PROBA-1 CHRIS End of Mission Workshop

Registration closes on 9 January

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08/04/2024

Swarm 10 years Anniversary and Science Conference

Abstract submission deadline on 7 January

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14/04/2024

EGU General Assembly 2024

Call for abstracts is now open

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Focus on: Data access

How to access GEOSAT data

A collection of cloud-free GEOSAT-2 imagery over Spain was recently released, a mentioned earlier in this issue.

Did you know that imagery from both GEOSAT-1 and 2 are available through ESA's Third Party Missions (TPM) programme?

Through the TPM programme, ESA has an agreement to promote the free availability of GEOSAT data products.

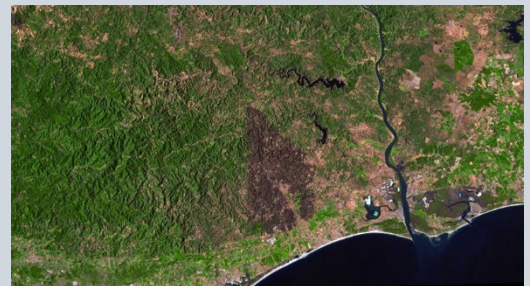
Imagery from both satellites are available, consisting of 22 m resolution GEOSAT-1 products, and up to 0.75 m resolution GEOSAT-2 products.

GEOSAT-1 products are available from 2009 to the present, and GEOSAT-2 products from 2014 to the present.

The GEOSAT missions support a wide range of applications, including maritime, agriculture, forestry, and environmental monitoring. The responsive nature of the missions also enables them to support rapid-response disaster monitoring.



GEOSAT-1 view of Sacramento, USA. Copyright: GEOSAT



GEOSAT-2 view of wildfires in Portugal. Copyright: GEOSAT

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CryoSat SIRAL Daily NOP Ocean Report

Published on 27/08/2023

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SMOS Weekly Report

Published on 13/11/2023

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Swarm Weekly L1B Report

Published on 18/09/2023

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