

## Showcasing success stories from ESA's Heritage Missions

12 March 2024

ESA's Heritage Space Programme preserves data from missions that are no longer operational, and keeps them accessible for long-term studies.

The programme covers more than 40 years of Earth observation data from more than 45 satellites, an extensive archive that supports a wide range of applications, particularly climate and environmental studies.

This infographic showcases just a few examples of how Heritage data continue to help, even decades after they finished operations:



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## LATEST DATA NEWS

### Additional EFI TII Raw And Corrected Imagery and Spectra (TRACIS) dataset 0201 available for Swarm

08 March 2024

Additional EFI TII Raw And Corrected Imagery and Spectra (TRACIS) data is now available on the Swarm dissemination server for all the Swarm satellites.



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### Additional Swarm Langmuir probe Ion Drift, density and effective Mass dataset 0201 available for Swarm

08 March 2024

Additional Swarm Langmuir probe Ion Drift, density and effective Mass (SLIDEM) dataset at 2 Hz cadence, baseline 0201, is now available on the Swarm dissemination server for all the Swarm satellites.



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### Highlight on:

## How scientists are unlocking the potential of SAOCOM

14 March 2024

A team of scientists has drawn on SAOCOM data to measure the heights of forests in Argentina, marking the first time that tree canopies have been mapped using the two-satellite constellation.

This breakthrough study – published in IEEE Xplore – highlights the huge potential of SAOCOM for empowering innovative applications of L-band synthetic aperture radar (SAR) data.

The unique constellation is owned by Argentina's space agency (CONAE) and is part of ESA's Third Party Missions programme. It occupies a sun-synchronous polar orbit and supplies data to support a wide range of applications – from disaster responses to Antarctic science.



Santiago Seppi, study lead author and researcher at CONAE, explains: "L-band satellite systems are valuable for scientists because they can penetrate thick vegetation, soil and other structures, providing information that shorter wavelength SAR satellites cannot deliver – this impressive capability opens up many avenues of research."

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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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URBIS24 (URBAn Insights from Space)  
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### Focus on: Data access

## TerraSAR-X and TanDEM-X data access

TerraSAR-X and TanDEM-X are twin satellites owned by the German Aerospace Center (DLR), which were launched in 2007 and 2010.

The objective of the missions is to acquire X-band radar data with unprecedented accuracy, supporting change detection and monitoring of Earth's surface. The satellites fly together in close formation, enabling their data to be used for creating Digital Elevation Models.

TerraSAR-X and TanDEM-X are part of ESA's Third Party Missions programme, in which ESA has an agreement to promote the free availability of data products from the satellites.

Two collections for the missions are available, which contain products from both satellites.

The ESA archive contains products requested for research projects over different locations around the world.

The full archive and tasking collection contains all products for the satellites since November 2007. A Project Proposal must be submitted to request products from the collection, explaining the scientific application for the data.



*TerraSAR-X and TanDEM-X*  
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