

How to access campaign data distributed by ESA

16 April 2024

Access to datasets from ESA's Campaigns are openly available following submission of a Data Access Request.

This guide sets out in detail how to complete the process for accessing ESA Campaign data. The process requires submission of a simple form, which immediately grants access to the data upon submission.

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ESA's improved Earth system data records: what is in store for the future?

08 April 2024

Fundamental Data Records (FDRs) are instrumental in advancing our understanding of Earth systems and for addressing societal challenges effectively.

These long-term records contain uncertainty-quantified, calibrated and geo-located multi-instrument/multi-platform satellite sensor data spanning several decades to support climate-related applications.

While certain applications may directly integrate these products, FDRs primarily serve as foundation for generating higher-level Thematic Data Products (TDPs) and Essential Climate Variables (ECVs), which provide valuable insights into a wide range of natural processes and events.

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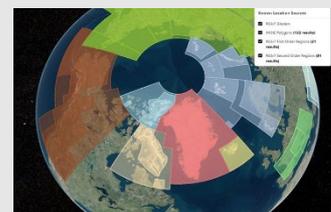
LATEST DATA NEWS

New Ocean data and more boost CryoSat data platform

15 April 2024

Eight new datasets have been added to the CS2EO platform to support, enhance, and simplify research using CryoSat data. They include the CryoSat Ocean Product, and the Cryo-TEMPO Land Ice, Sea Ice, Polar Ocean, Coastal Ocean and Inland Water datasets.

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Highlight on:

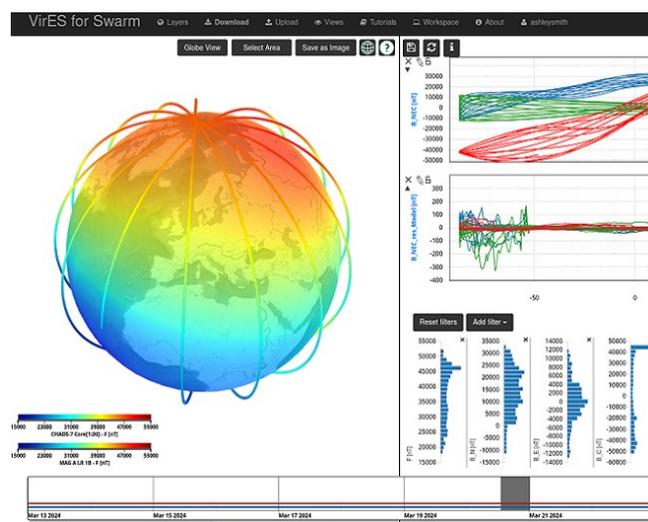
Earth scientists better exploit Swarm data with virtual workspace

09 April 2024

The recent 10 year anniversary of ESA's Swarm mission provides a new decadal perspective of its magnetic field measurements, enabling scientists to make strides in their understanding of Earth's system, from its outer atmosphere to its turbulent core.

One key to unlocking the full potential of this treasure trove of Swarm data is the ESA-funded VirES service (Virtual workspaces for Earth scientists).

The VirES toolset is a virtual research environment that offers more direct and in-depth exploitation of Swarm data, thanks to a data retrieval web interface, multi-dimensional geographical visualisation, interactive plotting and on-demand processing tools.



Navigating, accessing, understanding, and effectively using all these data products is challenging. The VirES service tackles these challenges by providing a web-based development environment in the form of a JupyterLab workspace.

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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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03/09/2024

2024 European Polar Science Week
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URBIS24 (URBan Insights from Space)
Registration opens 15 May

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Focus on: Data access

How to access FDR4ALT data



A set of Fundamental Data Records (FDR) for altimetry was recently released as part of ESA's FDR4ALT project.

The goal of FDR4ALT was to create a set of data from the archive of ERS-1, ERS-2, and Envisat missions, spanning the 20 years these satellites were operational from 1991 to 2012. This is the first time data from all three missions have been consolidated in single collections.

The products, which are available in NetCDF format, offer improvements over the original individual mission datasets, such as enhanced calibration and algorithms offering high standards of data quality, guaranteed accuracy for long-term datasets, and uncertainty-quantified observations. Migrating to use of these collections is strongly recommended.

The FDR4ALT data collections are organised with FDR for altimetry and radiometry, and Thematic Data Records for atmosphere, inland waters, land ice, ocean and coastal topography, ocean waves, and sea ice.

All of the FDR4ALT collections are openly available to anyone with an active account in ESA's EO Sign-In System.

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