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esa EOPF SENTINEL ZARR SAMPLES



September EOPF Zarr Updates

Access Zarr Data with openEO & STAC: New Tools and Resources!

EOPF Zarr Data Access with openEO and STAC

The notebook showcases data access to EOPF Zarr products via openEO and STAC. The openEO API harmonizes how EO data is accessed and processed via an unified API. By its standardization, portability and reproducibility openEO fosters the FAIRness of workflows and results. The webinar will guide through the steps of data access, creation of customized virtual data cubes and processing in order to demonstrate the interoperability of openEO and the EOPF Zarr products.

Each notebook can now be started instantly using the **launch button** included in all rendered notebooks, making it easier than ever to run and explore them.

Sentinel-1 SLC Zarr Product Exploration

Have you found Sentinel-1 Single Look Complex data too complex? Discover how converting the product to the EOPF Zarr format simplifies its use and lowers the entry barrier.
https://eopf-sample-service.github.io/eopf-sample-notebooks/sentinel-1-l1-slc-zarr-product-exploration/

EOPF open source plugins

🚀 xarray-eopf v0.2.0 is here!

We would like to announce the release of **xarray-eopf v0.2.0**!
Install it via **conda/mamba** or **pip** and start exploring the new features.

✨ **What's new?**

- **Sentinel-3 analysis mode**

  - Rectify data from the **native irregular grid** to a **regular grid**.
  - Supported products:

    - OLCI Level-1 EFR/ERR
    - OLCI Level-2 EFR
    - SLSTR Level-2 LST

- **Improved spatial resampling**

Now powered by **xcube-resampling**.
Parameter spline_orders has been renamed to **interp_methods** for clarity and consistency.

🔗 **Useful links:**

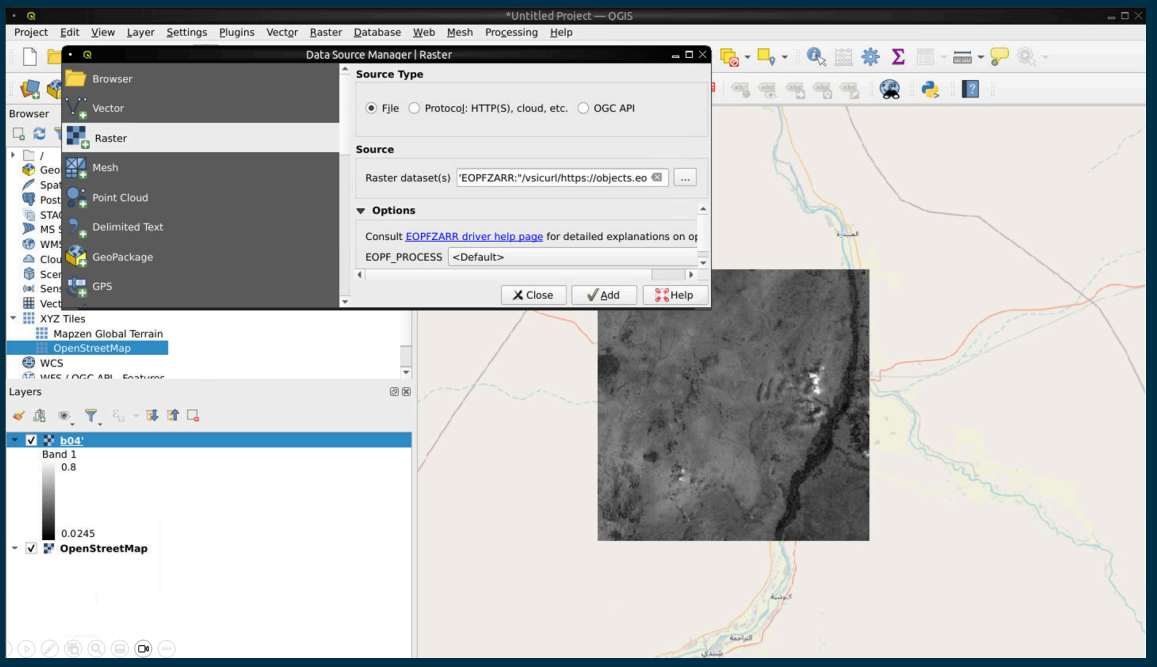
GitHub: https://github.com/EOPF-Sample-Service/xarray-eopf
PyPi: https://pypi.org/project/xarray-eopf/
Anaconda: https://anaconda.org/conda-forge/xarray-eopf
Documentation: https://eopf-sample-service.github.io/xarray-eopf/
Sentinel-3 example notebook: open-sen3.ipynb

🚀 QGIS with GDAL EOPF Zarr driver available as Docker image!

We would like to announce the release of a Docker image containing QGIS with pre-installed GDAL EOPF Zarr driver.

If you have Docker installed on your machine, you'll be able to test the EOPF Zarr products with QGIS without the need of installing or compiling any other library, only an internet browser!

Please refer to GitHub for the instructions: https://github.com/EOPF-Sample-Service/GDAL-ZARR-EOPF/tree/main/docker-images/eopfzarr-qgis



Webinars

We've now reached the seventh session in our webinar series on adopting the new EOPF Zarr data format. Each edition builds on previous insights, providing practical guidance and expert perspectives tailored to diverse user needs. Explore the resources from the latest webinar.

Webinar #7: EOPF Zarr Data Access with openEO and STAC



Discover how easy it is to work with EOPF Zarr data!

In just **45 minutes**, this hands-on session shows you how the **openEO API** can simplify and standardise your Earth Observation workflows, making them **portable, reproducible, and ready to scale**.

You'll learn how to:

- Effortlessly **access EOPF Zarr datasets** through openEO
- Build **custom virtual data cubes** tailored to your analysis
- Launch **simple, yet powerful processing workflows**

Perfect for **beginners and intermediate users**, the webinar also unveils the **latest updates from the Sentinels EOPF Sample Service** and invites you to be part of a growing community of early adopters.

📍 **Online**
📅 **Thursday, 25 September, 14:00 CEST**

Register

Meet us at BiDS25!



Join the EOPF activities at BiDS25:

Tutorial: a half-day deep dive into EOPF tools and technologies to get you ready for the hackathon.

Hackathon: tackle real-world Copernicus Sentinel challenges with Zarr, STAC, Dask, Julia and more, exploring chunking strategies, DGGS, GeoZarr, CF-conventions and beyond.

Whether you're a newcomer or an expert, we'd love to connect with you at BiDS25!

BiDS25

Community Support Platform

To support users of the new data formats, we have launched a dedicated **Community Support Forum,** a space to ask **questions**, share **knowledge**, and **collaborate**. Whether you are looking for help, exchanging tips, or uploading community notebooks, the platform is here to grow a strong network of users.

Community Support Platform





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