View in browser

esa EOPF SENTINEL ZARR SAMPLES



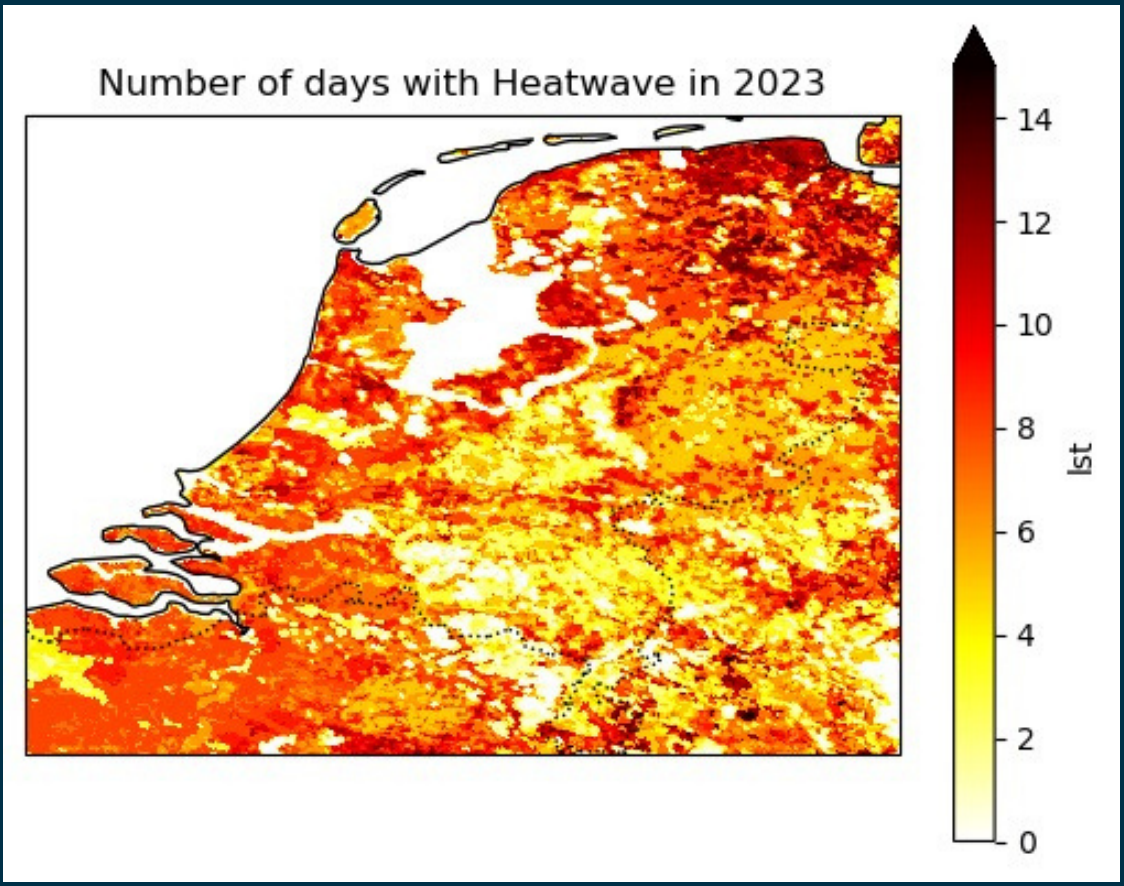
Zarr in Action: Learning & Building Together

Service Update

🔥 **Check out our latest notebook: Heatwave in Netherlands**

Learn how to read, process and use Sentinel-3 Land Surface Temperature

Heatwaves pose a growing risk to human health, ecosystems, and infrastructure , especially in the context of climate change. Thus, in this notebook, we want to showcase a tool for mapping heatwaves using Sentinel-3 products.
For this, the focus is on the Netherlands and uses specific conditions proposed by the “National Heatwave Plan” in the Netherlands.



The notebook will guide you step by step through the process of data discovery, accessing Sentinel 3 SLSTR data in the new EOPF Zarr format and processing of the data to analyse the number of heatwave events in the Netherlands in 2023.

💻 EOPF open source plugins

xarray-eopf
The eopf engine for xarray was released in version 0.1.2. This release allows a ccess to subgroups within the EOPF Zarr via the DataTree model of xarray. The package is released via conda-forge, [https://anaconda.org/conda-forge/xarray-eopf] and via pypi [https://pypi.org/project/xarray-eopf/]

xcube-eopf
xcube-eopf is a Python package and xcube plugin that adds a data store named **`*eopf-zarr*`** to xcube. The data store is used to provide analysis-ready datacubes (ARDC) from EOPF Sentinel Zarr Samples. A demo of the key featur es of the xcube-eopf data store was presented in the EOPF Webinar #5.
The corresponding notebook can be found in the EOPF notebook gallery to create your analysis-ready datacube.

Webinars
We're already at the sixth instalment of our nine-part webinar series supporting users in adopting the new EOPF Zarr data format. Building on the insights shared so far, each session continues to offer practical guidance and expert input tailored to a wide range of user needs. Access the last webinar resources.

Webinar #6: Cloud-Native Oceanography with Sentinel Zarr Data



Curious how to bring your oceanography workflows into the cloud era? On 28 August, discover how to update your EO pipelines using Sentinel-1 and Sentinel-2 Zarr datasets through the Earth Observation Processing Framework (EOPF).

This ~~hands-on webinar~~ will guide you in transitioning from traditional SAFE files to scalable, cloud-ready data using real-world oceanography use cases.

Ideal for intermediate users with Python experience, the session includes practical demos, tips, and a ~~live Q&A~~. Don't miss this chance to dive into the future of ocean data!

Online
Thursday, 28 August, 14:00 CEST

Register

EOPF Zarr Hackathon: From Exploration to Optimization in Cloud-Native Earth

EOPF Zarr Hackathon

at BiDS25
by the EOPF Toolkit
x EOPF Zarr Sentinel Samples

Tutorial: 29.09.25
Hackathon: 30.09.25

As a side event of BIDS25, in collaboration with the EOPF Toolkit project, the EOPF Zarr hackathon invites participants, from newcomers to experts, to dive into the Earth Observation Processing Framework (EOPF) using cloud-native formats like Zarr, STAC, Dask, and Julia.

Focused on real-world challenges across Copernicus Sentinel missions, the event fosters collaboration and innovation around themes such as chunking strategies, DGGS, GeoZarr, CF-conventions, and more.

Afull-day tutorial on EOPF tools and technologies will be offered beforehand, ensuring all participants are ready to explore and experiment for the hackathon.

BiDS25 Hackathon

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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