



To ease browsing and intercomparing data, Visualisation and Analysis tools have been made available within the WOC project:

- > SEAScope Stand alone application
- ➤ Dedicated WOC Syntool Web portals

Both tools enable you to easily open, visualize, compare and blend data that are collocated in time and space.

Using vectorfields representation and images, it is possible to compare data in term of structures rather than pointwise data.

Support for a wide variety of data, WOC data, Sentinel 1-2-3-6, as well as in-situ observations and model outputs



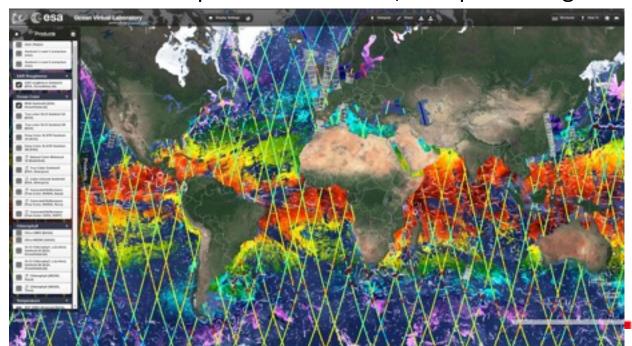
# Visualisation tools: general overview



#### **Syntool Web Portals**

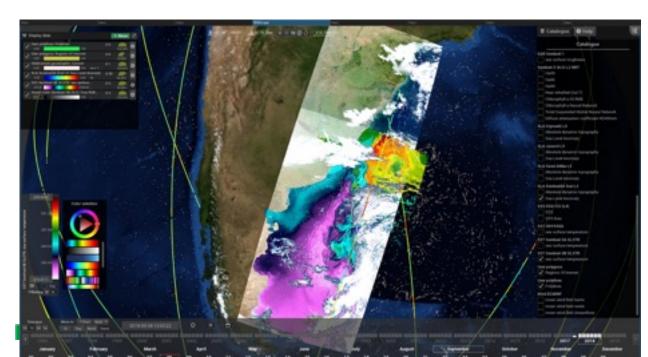
- Data are projected and tiled (preprocessed)
- Drawing capabilities for synoptic chart
- Portals available on any browser: <u>https://woc.oceandatalab.com</u>, <u>https://ovl.oceandatalab.com</u>

more than 200 products available, NRT processing



#### **SEAScope Stand alone application**

- Works on Linux, macOS and Windows
- 3D earth, no data projection, dynamical rendering
- Two-ways interaction with Python
- Available on <a href="https://seascope.oceandatalab.com">https://seascope.oceandatalab.com</a>



### WOC Specific development



#### **Syntool Web Portals**

All products from WOC catalogue have been included in the WOC portals

Other relevant products made available

Short link with interesting test cases are being

populated

Platform
 Instrument

Area

Processing level

Spatial Resolution

GCMD parameter



Platform(s): GCOM-W1, Coriolis,

#### **SEAScope Stand alone application**

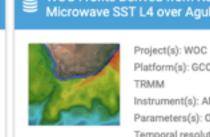
All netCDF regular grid 2D products are compatible with SEAScope

Project(s): WOC

Platform(s): MSG-2, MSG-3, MSG-4

IDF SEAScope format data are available at request for other

Jupyter python notebooks to perform analyses are available at requests



WOC Fronts Derived from Remote Sensing Microwave SST L4 over Agulhas Region

> Platform(s): GCOM-W1, Coriolis, TRMM Instrument(s): AMSR-2, WindSat, TMI Parameters(s): Ocean currents

Temporal resolution: 1 day(s)

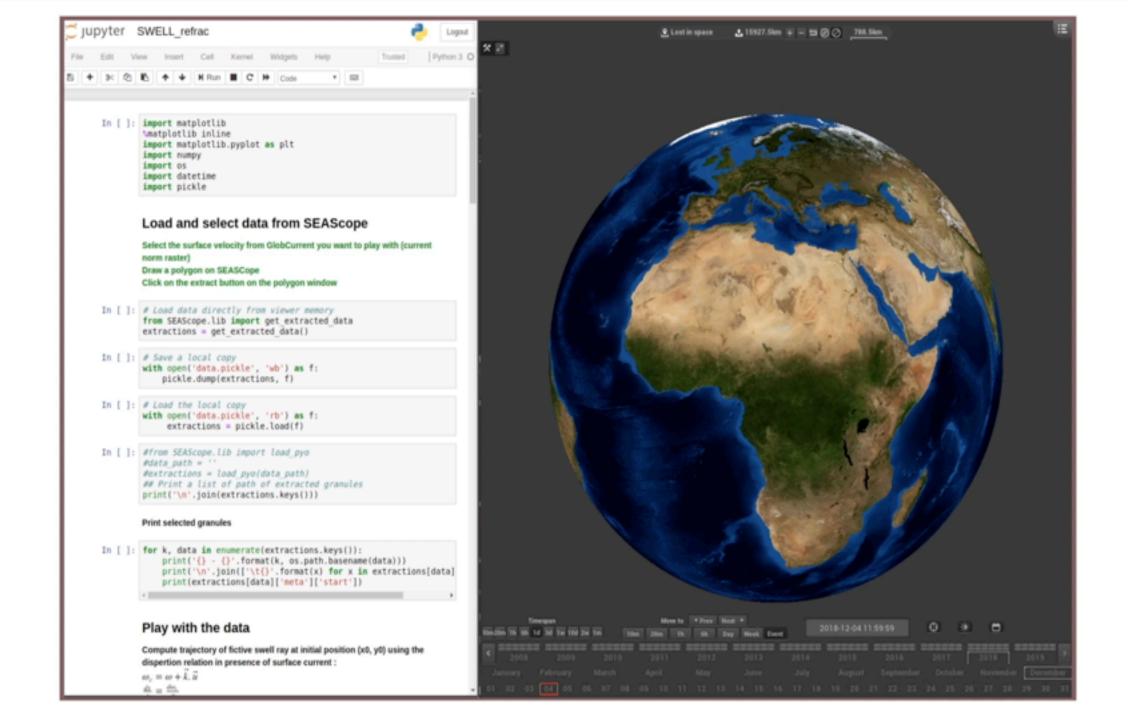
Spatial resolution: 0.25 deg



WOC Fronts Derived from Remote Sensing SST Observations by SEVIRI over Western E...



Project(s): WOC Platform(s): MSG-2, MSG-3, MSG-4





## Syntool Web Portal



One general portal that contains all WOC products and other relevant upper ocean observations and model:

https://woc.oceandatalab.com

Three thematic portals with a focus on the studied region and the corresponding products:

- 1. <a href="https://woc-safe-navigation.oceandatalab.com">https://woc-safe-navigation.oceandatalab.com</a>
- 2. <a href="https://woc-sustainable-fisheries.oceandatalab.com">https://woc-sustainable-fisheries.oceandatalab.com</a>
- 3. <a href="https://woc-clean-ocean.oceandatalab.com">https://woc-clean-ocean.oceandatalab.com</a>



### Illustration



• Theme 1, safe navigation:

Comparison WOC SAR Doppler and WOC BFN: <a href="https://odl.bzh/x7fY49FO">https://odl.bzh/x7fY49FO</a>

Theme 2, sustainable fisheries:

Comparison with SST SLSTR and Microwave: https://odl.bzh/U8JJO8P

https://odl.bzh/6I5A Bzd

Theme 3, clean ocean:

Triggering of a large inertial oscilation: <a href="https://odl.bzh/OYIgbTUQ">https://odl.bzh/OYIgbTUQ</a>





Visualization tools are available on laptops and can be demonstrated on the big screen

Come at the demo area to have a tour or play with the tools

Today 17h - 19h CET

Tutorials available on our youtube channel:

https://www.youtube.com/channel/UCayVzsP1tMGofMxmxHarM9w

Send us your feedback at contact@oceandatalab.com

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