

→ MEASUREMENTS AND OBSERVATIONS IN THE 21st CENTURY CONFERENCE

Broadview Radar Altimetry Toolbox

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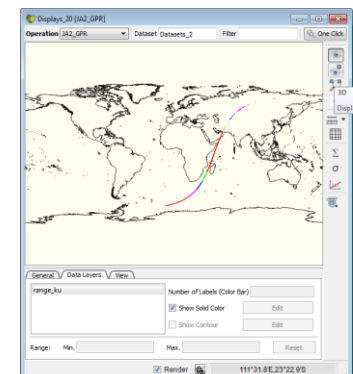
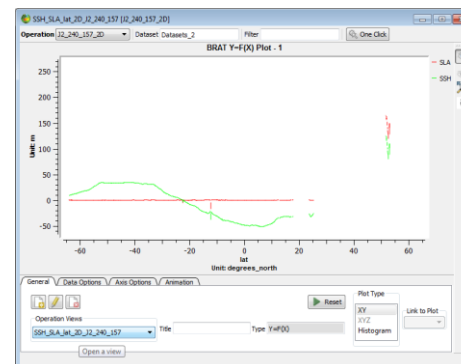
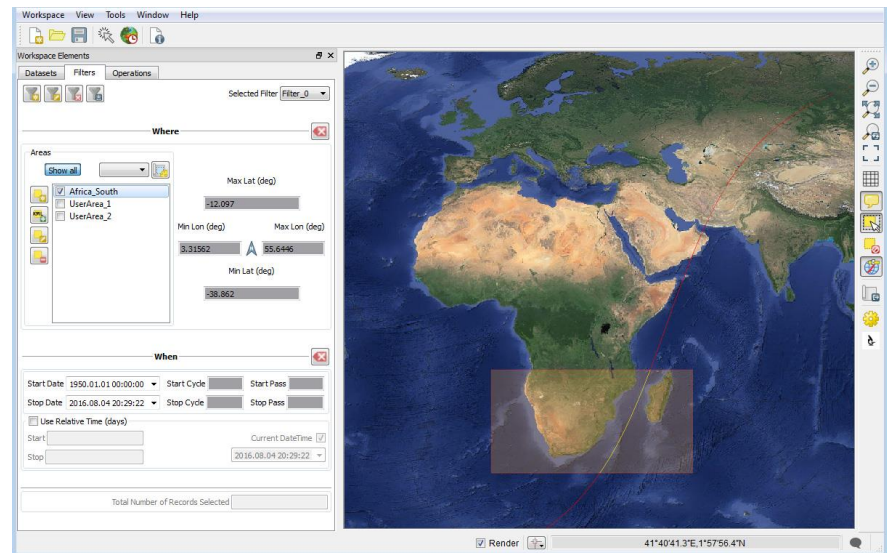
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Background

- Project started in **2005** from the joint efforts of **ESA** (European Space Agency) and **CNES** (Centre National d'Études Spatiales).
- **Objective:** to facilitate the processing of radar altimetry data
 - **Tools:** Broadview Radar Altimetry Toolbox
 - **Didactic:** Radar Altimetry Tutorial

Broadview Radar Altimetry Toolbox

- Free and open source
- Version 4.0 released in October 2016
- BRAT enables you to read, manipulate, visualise and export all previous and current altimetry mission's data



Broadview Radar Altimetry Toolbox

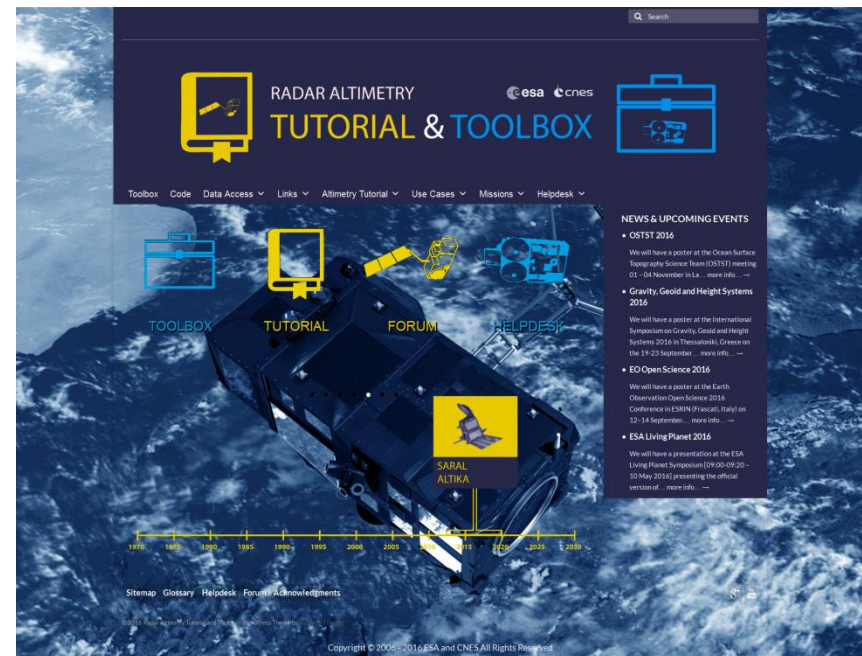
- Medium to advanced users:
 - Create **shell scripts** using the toolbox's tools
 - BratCreateZFXY
 - BratExportGeoTiff
 - ...
 - Reading routines for **MATLAB**
 - **APIs**
 - Python
 - Fortran
 - C/C++

```
1 fileNames = [currentDirectory + '/example.nc']
2 recordName = 'data'
3 selection = ''#
4 'lon_mwr_l1b > 10 && lon_mwr_l1b < 40'
5 expressions = ['time_mwr_l1b']#[ 'lat_mwr_l1b', 'lon_mwr_l1b']
6 units = ['seconds']#[ 'radians', 'radians']
7 ignoreOutOfRange = False
8 statistics = False
9 defaultValue = 0
10
11 dataResults = brath1_ReadData(fileNames,
12     recordName,
13     selection,
14     expressions,
15     units,
16     ignoreOutOfRange,
17     statistics,
18     defaultValue)
19
20
```


Radar Altimetry Tutorial

- Synthetic Aperture Radar (SAR) altimetry
- Video tutorials
- Data access
- Use cases
- Forum
- Download BRAT and its source code

<http://altimetry.info/>



Conclusions

- **BRAT** radar altimetry made easy
- <http://altimetry.info/> everything altimetry

Any doubts, please contact us at
altimetry.info@esa.int

