St3TART — FRM for Sentinel-3 Land Altimetry

Land waters

© vorteX.io

Sea Ice

© DTU

Land Ice

© IGE

ScalSIT

Validation, FRM protocols & procedures

- Define and consolidate **methods and protocols for the validation** of the Sentinel-3 Altimetry Land products **with Fiducial Reference Measurements** (FRMs)

Roadmap for S3 STM Land FRM operational provision

- Identify existing networks and **assess the needs** for permanent sensors and campaigns.
- Prepare a **roadmap for the operational provision of FRM data** to support the Sentinel-3 Altimetry Land validation

FRM campaign preparation and execution

- **Deploy and operate** in-situ sensors, perform dedicated campaigns to collect FRM data
- **Provide FRM data** to the Copernicus Sentinel-3 STM validation teams

FRM Data Hub

- Web site, **for a centralized access** to FRM measurements
- Fully characterized and **documented FRM processing** and measurements
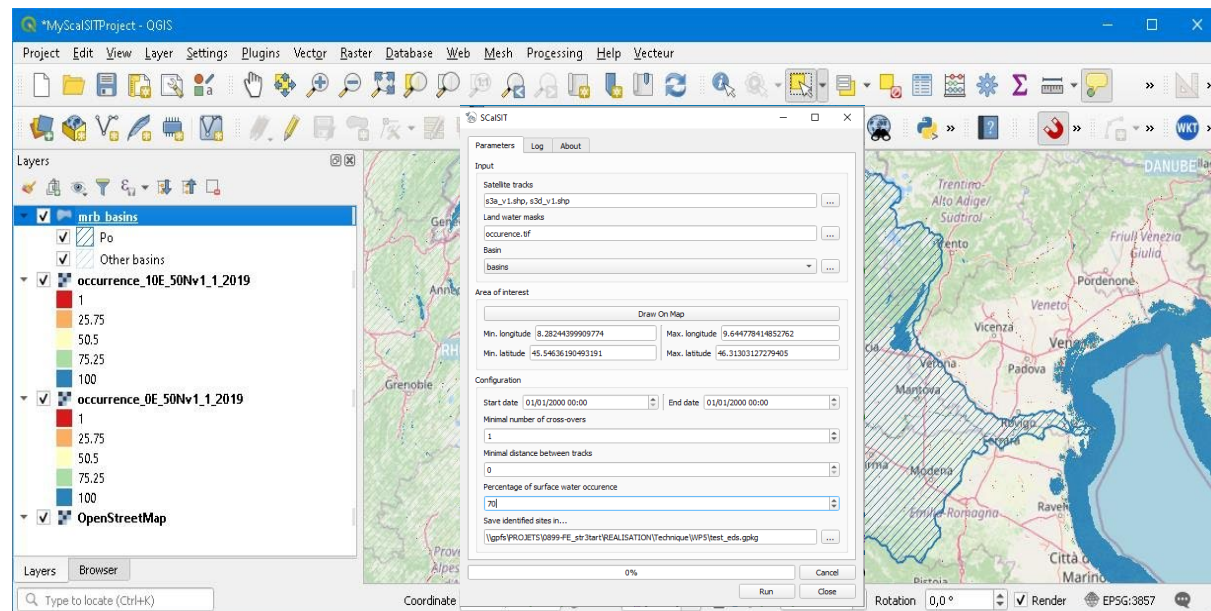
ScalSIT:
- Super CAL/VAL site identifier tool for **inland waters**
- Determines the **intersections** between **Water mask** and **satellite orbits**
- Developped as a QGIS plugin
- First version available
- Final version : mid-2022
- Online user support
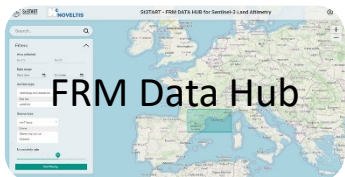
SCalSIT is a tool to simplify the identification of potential in-situ Cal/Val sites over Inland Water Surfaces

› Foster the synergetic identification of sites with a cross-processing of the satellite orbit versus ground data

- Land/Water mask;

- Sentinel-3 theoretical orbit or orbit products;

- Identification of water area crossing, satellite tracks cross over water

- Easy to use, intuitive.

› QGIS plugin

› First version available

› Final version : mid-2022

› Online user support
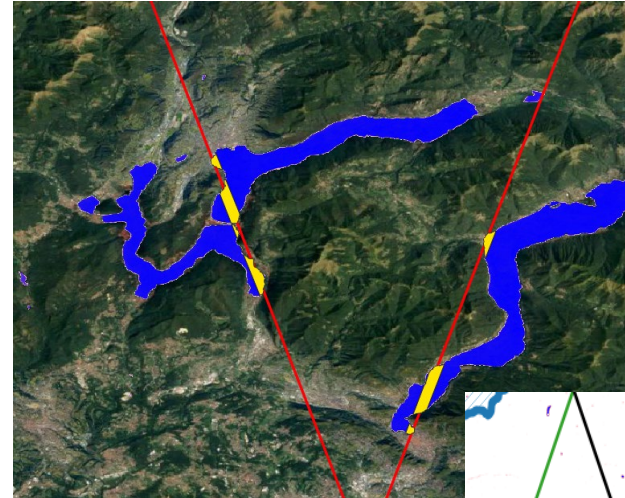
St3TART SCalSIT – Super Cal/Val Site Identifier Tool

FRM for Sentinel-3 Land Altimetry

Define Satellite tracks, Land water masks, AOI, choose your algo mode (full/cross-over)

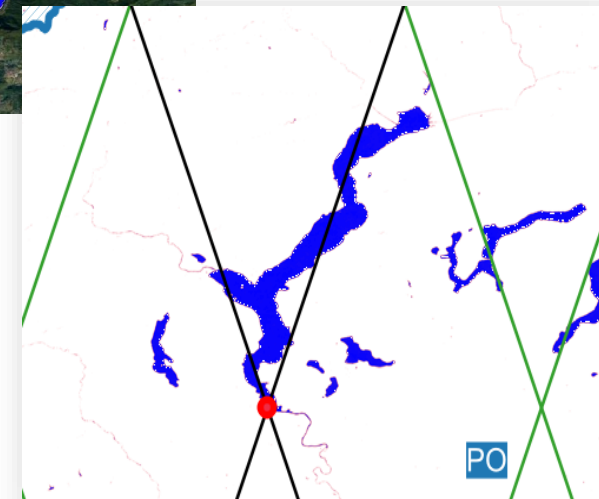**=> SCalSIT identifies potential in-situ Cal/Val sites over Inland Water Surfaces !**

Full mode : all intersection between satellite track and water body

Cross over mode : Cross of several satellite tracks near a water body

Thanks for your attention !

Interested by more info or by a demo ?

Contact : St3TART@noveltis.fr

Website : https://sentinel3-st3tart.noveltis.fr/