



ESA Agency Report – Q3/2014

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European Space Agency (ESA/ESRIN)

ESRIN/ESRIN/38 - C/Case Park 30/A-2/10 2014

1. Update on the ESA Earth Observation missions
2. ESA Cal/Val highlights
3. QA4EO application: LTDP ALTS

1. Update on the ESA EO missions



- Sentinel-1 successful IOCR held 23 September
- SMOS and CryoSat Earth Explorer missions extended through 2017
- ADM-Aeolus delivery aimed for Q2/2015, launch readiness expected in Q1/2016

2. Cal/Val Highlights



Fiducial Reference Measurements for Thermal Infrared Satellite
Validation call for tender issued in Q2/2014 (EMITS ref. 7912)

- *In response to **CV-8**: Sea Surface Temperature (SST) & Land Surface Temperature (LST) Comparison Campaign Plan*

SnowPEX project: 1st International Satellite Snow Product
Intercomparison Workshop (ISSPI) held in Washington 21-23 July
with 70+ participants

- *Link to WS report: <http://calvalportal.ceos.org/projects/snowpex/isspi-workshop>*

Funding of the end-2-end **Radiometric Uncertainty Tool (RUT)** for optical
sensors based on the QA4EO feasibility study for Sentinel-2

- *PhD fellowship in cooperation with NPL*

Preparation in cooperation with the CSA for the 1st **Arctic and high-
latitude Product Validation and Evolution (APVE)** workshop, 12-13
November, Ottawa, Canada

- *<http://calvalportal.ceos.org/events/apve-workshop>*

3. QA4EO application: LTDP ALTS

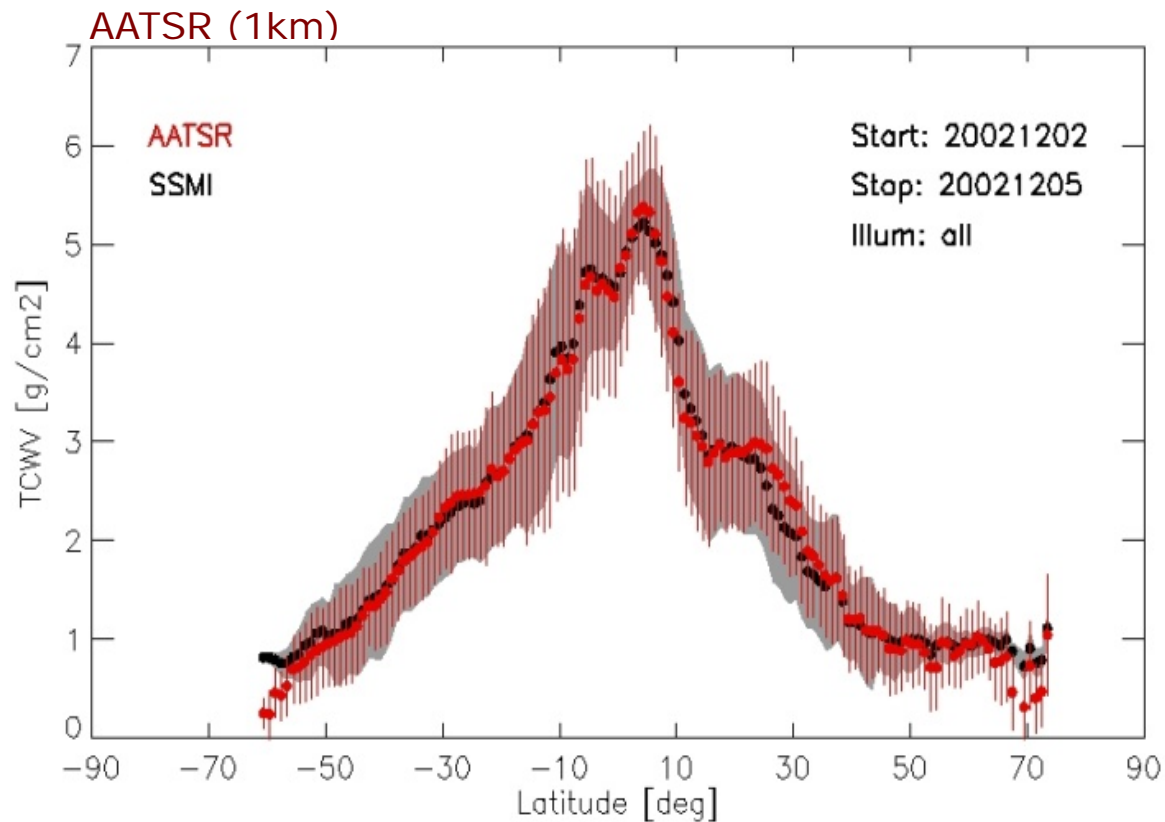


LTDP ALTS project objective is the characterisation of the (A)ATSR 10.8 μ m and 12 μ m channels using CEOS/GSICS best practices, radiative transfer studies, and L2-to-L1 product feedback

Improvement in the radiometric characterisation now allows for unique “first principles” day/night TCWV retrievals (i.e. no model inversion)

Consortium: Telespazio Vega, UK; Serco, Italy; CNR-Bologna, Italy

CEOS/WGCV 38 - College Park, 30/9-2/10 2014



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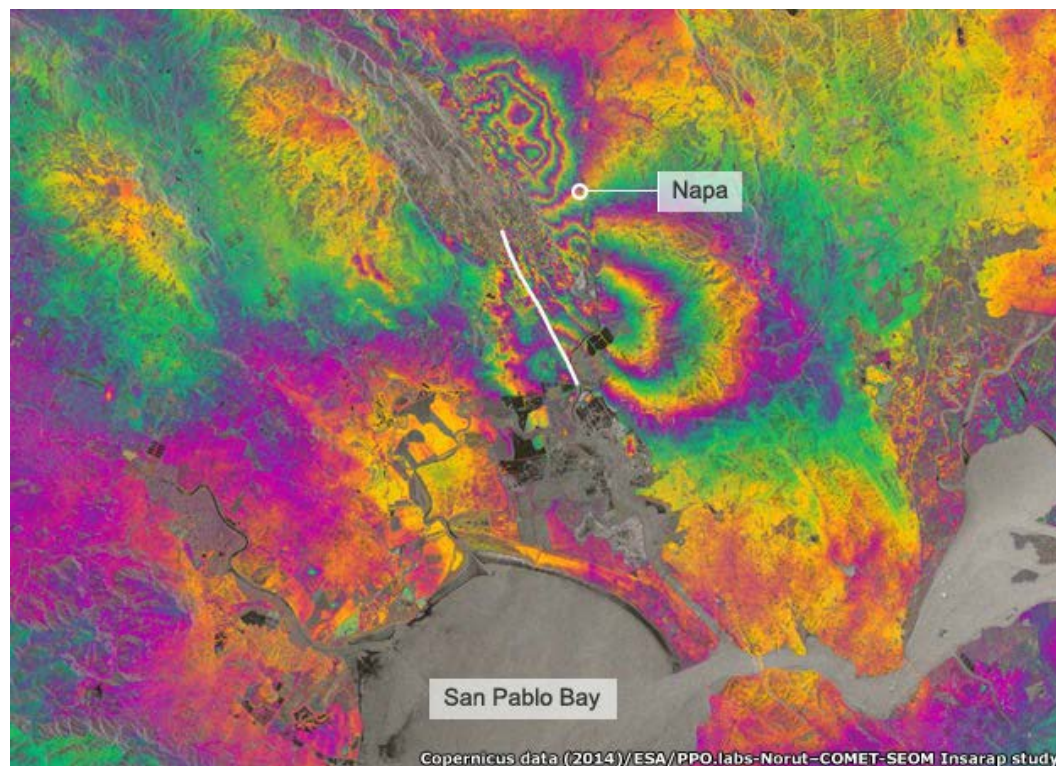
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Sentinel-1 interferogram, Napa earthquake
<http://www.bbc.com/news/science-environment-29012588>

Thank you for your attention!