



Preparing the Future of the Cal/Val for Sentinel Missions: The Copernicus Cal/Val Solution Project

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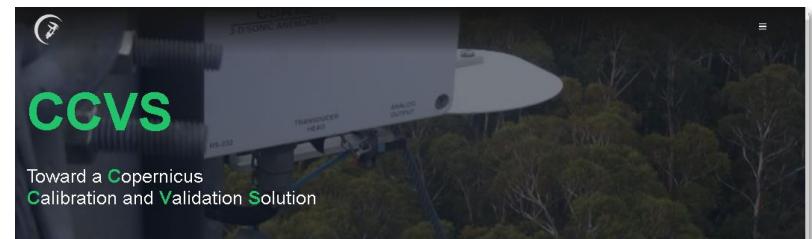
1: ACRI-ST, France; 2: IASB/BIRA; 3: CNES; 4: U. of Tartu; 5: CLS; 6: ARGANS; 7: DLR; 8: JRC; 9: Thales Alenia Space

Scope of the CCVS project

- ❖ Objective of the H2020 Copernicus Cal/Val Solution project:
To define a holistic solution for all Copernicus Sentinel missions (either operational or planned) to overcome current limitations of Calibration and Validation (Cal/Val) activities.
- ❖ Work plan / Deliverables:
 1. Updated specifications of Cal/Val requirements
 2. Overview of existing Cal/Val sources and means
 3. Gap analysis identifying missing elements
 4. Provision of Copernicus Cal/Val solution
 5. Roadmap for implementation
- ❖ Project duration: Dec. 2020 to Nov. 2022
- ❖ 14 project partners
- ❖ Project website: <https://ccvs.eu>
- ❖ Contact us: contact@ccvs.eu

Preliminary findings

- ❖ Generally robust cal/val plans for all Sentinel missions with a consistent approach across domains
- ❖ Long-term support from the Copernicus program for critical calibration infrastructures
- ❖ But no coordinated plans nor long-term funding for acquisition of validation data from in-situ measurements or campaigns
- ❖ Need to clarify which measurements can qualify as Fiducial Reference Measurements (FRM)
- ❖ Very heterogenous level of interaction between measurement networks and cal/val experts
- ❖ Synergy between in-situ data needs from Copernicus services and space agencies not fully exploited



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Project outputs available from the project website

- ❖ Sentinel mission cal/val specifications documents: Optical, Atmospheric Composition, SAR and microwave imaging, Altimetry
- ❖ Survey of available Cal/val sources: on-board calibration, vicarious methods, intercomparisons with other satellites and models, systematic in-situ measurements and field campaigns
- ❖ CCVS Workshop videos available on-line

Interacting with the project

- ❖ Cal/val expert: submit innovative ideas, trigger new collaborations
- ❖ In-situ measurement experts, PI of measurement networks: find out if and how your data can be used for cal/val
- ❖ EO data user: provide your feedback on Copernicus data quality, get information about cal/Val of Sentinel missions



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