



CEOS WGCV Plenary # 40

Sentinel 5 P Validation / DE

Albrecht von Bargaen

DLR

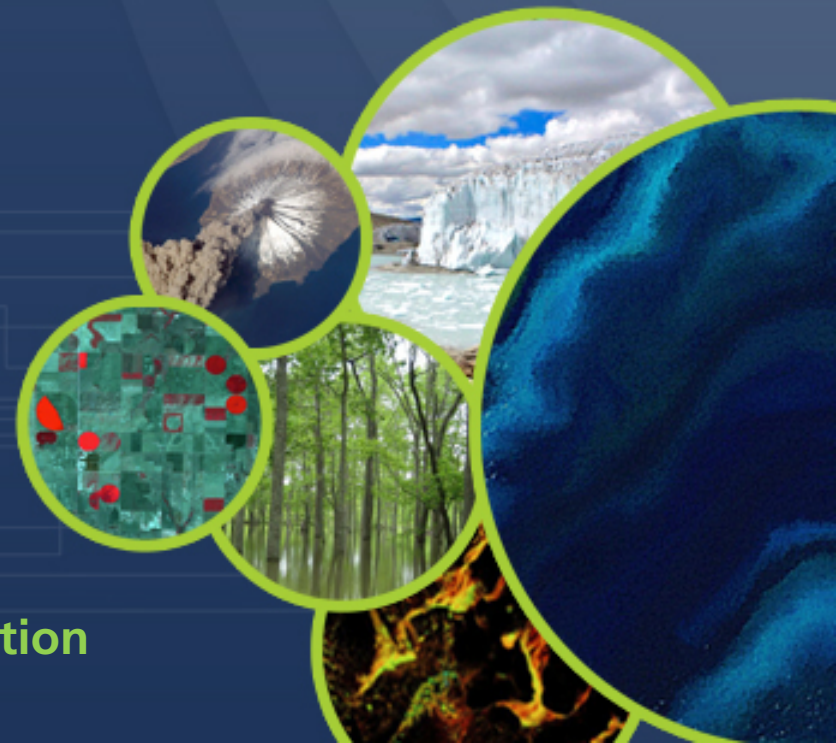
Atmospheric Session

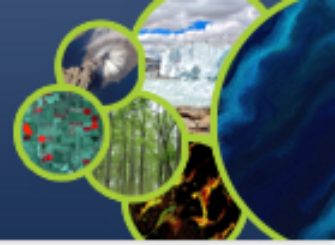
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Canberra

March 14- 18, 2016

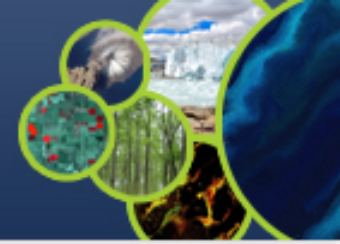
Working Group on Calibration and Validation





Sentinel 5 Precursor Product Validation Set-up

- Product Validation for itself is not contained in any specific program with ESA:
 - ESA announces a Call for Validation (projects) to be selected in a validation core team but funding must come from elsewhere (in first principle not from ESA)
 - Validation Plan is put in place by ESA to define the requirements for data product validation
 - Validation Implementation Plan is set-up by ESA to coordinate the combined effort of validation by different European (and other) entities on a non-fund baseline (= find your national funding)
- Germany as ESA member state provides usually some support for the data product validation for Earth Explorer, and in this particular case for Sentinel 5P (Copernicus!)

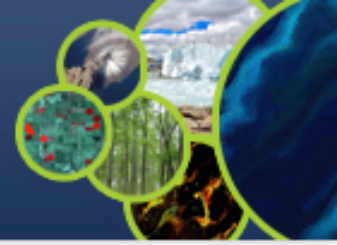


German contributions

- Boundary condition:
German funding in coordination with ESA validation activities
(ideal case: with all European (global) partners)

- Ensured FRM measurements in preparation of validation
 - FRM4GHG (TCCON and NDACC) (PI J. Notholt, University Bremen)
 - Participation on FRM4DOAS (CINDI-2 campaign)

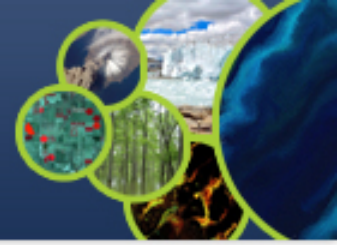
- Proposals:
 - TCCON / NDACC network for GHGs with global distribution
(University Bremen, KIT 2x, and MPI Bio-Geochemistry Jena)
 - Travelling Standard FTS from KIT (COCCON) based on Bruker EM 27



German contributions

Proposals

- Carbon cycle
 - TCCON / NDACC network for GHGs with global distribution (University Bremen, KIT 2x, and MPI Bio-Geochemistry Jena)
 - Semi-automatization of those TCCON / NDACC network to achieve a timeliness in delivery of validation data products
 - Travelling Standard FTS from KIT (COCCON) based on Bruker EM 27
- Further NDACC measurements (O₃, H₂O,) (University of Bremen) (University of Bremen in Bremen, Ny-Alesund, Paramaribo (SURINAM), Koror (Palau)) [FTS]
- [MAX-]DOAS measurements (University of Bremen, MPI Mainz)
- Sonds in Africa (University of Bremen)



German contributions

Non-Proposals or free contributions

- FZ Jülich: GLORIA measurements from HALOE if matches (and other activities)
- DLR (IPA): Airborne measurements (LIDAR)
- Many others

