

Nominee's Presentation

Albrecht von Bargaen

Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)

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Knowledge for Tomorrow



Outline

- **Agency Introduction**
- **Personnel Introduction**
- **View on CEOS Working Group Calibration / Validation**
- **A look on the coming periods**



Agency Introduction

- DLR's mandate with respect to space is twofold
- DLR is that National Research & Technology entity for space in Germany
- DLR is also the Space Administration (=Agency) acting for the German Government as
 - project manager for all National space missions
 - funding organization for applied space projects within Germany
 - advisor for the definition of the National Space Programme
 - transmission belt for the German contributions to the European Space Agency, i.e. serves/supports the government in ESA's boards
- DLR Space Administration Earth Observation Department is also
 - hosting the German GEO office and GMES office
 - serving all CEOS activities(which includes delegation of representation to other German entities)



Personnel Introduction

- Personnel status: Married, three children
- Education
 - Diploma in General Physics, Technical University Munich
 - Dr. rer. nat., DLR / Justus-Liebig-University Gießen
 - Focus: Spectroscopy on molecular clusters ($\text{Ar}\cdot\text{C}_6\text{H}_6$) and radicals (OH and HO_2)
- Professional Experience
 - DLR Remote Sensing Technology Institute (DLR-IMF) (R&T Division)*
 - Scientist: Laboratory Research on radicals (OH, HO_2)
 - Scientist: Algorithm development GOME/SCIAMACHY wrt spectral calibration, L0-1 correction algorithms, L2 retrieval algorithms
 - Project manager for SCIAMACHY payload processor at DLR
 - DLR Space Administration, Earth Observation Department*
 - System Engineer Ground Segment EnMAP, Mission Unit
 - Senior Expert, Programme Unit
 - Delegate to PB-EO/DOSTAG Board @ ESA
 - Delegate to CEOS WGCV and WGC



View on CEOS Working Cal/Val

- There is a high demand within WGCV to be oriented with respect to
 - Instrumentation & Sensors (IVOS, MW, SAR)
 - Products (ACG, LPV, TM)
- Absolute excellent initiative to settle quality indication (QA4EO) for both, product providers and users
- Cross-cutting issues with GEO / GEOSS (GEO task responsibility)
- Experienced inter-action with CEOS WGISS
- Some inter-action with other WGs and VCs in the pipeline
- Work plan provides a good structure to keep track.



A Look on the coming periods (I)

Further enhancement of the attendance at CEOS-WGCV

- Top-level goal: WGCV is a win-win for the CEOS members
- There are more than 40 CEOS members & observers!

- ➔ What are the expectations of WGCV non-attendees?
- ➔ What is attractive for them to attend / participate?
- ➔ Is there a need to sharpen our profile / focus for the outside world?
- ➔ To be an attractive market place in terms of contacts / cooperation with a clear focus on Calibration, Validation and Product Quality Assurance.



A look on the coming periods (II)

Product level point of view

- Level 1 -> SAR, MW, IVOS,missing sensors?
- Level 2 -> ACSG, LPV, (TM),missing products?
- Level 3 and higher: Are they captured by CEOS-WGCV or VCs?

There is a huge work-load for every sub-group!

- ➔ Encourage to have also a look on atmospheric sensors
- ➔ Support MW sub-group to further re-built their activities
- ➔ Oceanographic / Water products? Gravitation missions?
- ➔ An inter-action with Virtual Constellations may allows us also to limit us to I1 and I2 products?!



A look on the coming periods (III)

Cross-cutting issues

- Quality: QA4EO
 - Cal/Val sites
 - Cal/Val portal
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- ➔ QA4EO is in the transition from General definition (Top-Down) to the concrete application (Bottom-Up):
 - ➔ Product quality on all levels is a subject for the plenary, especially for cross-cutting aspects.
 - ➔ Encourage the show cases
 - ➔ Encourage the sub-group to set up examples to discuss the way forward within the plenary (including obstacles!) including measures for each concrete step.



A look on the coming periods (IV)

Cross-cutting issues

- Quality: QA4EO
- Cal/Val sites
- Cal/Val portal

Validation is absolutely mandatory for product quality but usually tighted on mission activities (especially in Europe):

- ➔ Shall we take advantage to coordinate our activities
 - ➔ Better usage of ressources
 - ➔ Better alignment of validation sites



A look to the coming periods (V)

Link to other WGs, VCs, and other bodies

- Encourage CEOS SIT, WGs and VCs to resolve where the task lead is
- Refine / Address the work to concrete specific tasks in inter-action with the others WGs and VCs in agreement with allocation of ressources
- Encourage direct liason with the goal to align the work load / responsibilities within CEOS groups
- Encourage to deepen knowledge exchange between WGCV and other bodies (GSICS?)
- What about combined meetings with WGonClimate (ECV)?



A look on the coming periods (VI) Continuity and adaptation

- Permanent refinement of the work plan
- Continuous evolution of internal organization



Conclusion

- Further enhancement of attendance of the CEOS-WGCV
- Foster the activities within the WGCV and the sub-group with the clear intension to check out
 - Which activities are within the scope of the Working Group
 - Which activities do we miss
 - Missing may also mean: we don't do it but it is known to us
 - Or it could also mean: there is a need to integrate
- QA4EO awareness shall be also reflected with a stronger emphasis as plenary activity.
- Systematically refine the link to other bodies within and outside CEOS

