

Closing Remarks



Knowledge for Tomorrow



- Thanks to all for your high-quality presentations, your feedback and your discussions – we got a good impression about the applications and methods that are used and also issues that scientists have with the data.
- Thanks a lot to all members of the scientific committee and the supporters of the ISPRS Technical Commissions WG I and WG III
- Thanks a lot to the audience and the fruitful questions and discussions
- Thanks a lot for the Event Management System BESL (including Review workflow) and Video Conferencing System alfaview



We noticed

- a wide range of applications even DESIS is only sensitive in the VNIR
- a tendency to use multitemporal data in order to map Earth system processes
=> data quality needs to be consistent over time
- that the ISS as EO platform with a complex observation geometry needs new ideas in data evaluation
=> e.g. value of acquisitions of different times during the day for photosynthesis analyses of vegetation
- that the data access could be more automatized – up to date technology (APIs), data provisions on processing platforms such as HPC (High Performance Computing), Copernicus DIAS (Data and Information Access Services), etc. – stronger cooperation with ESA necessary?
Might that be the problem of missing studies from ML/AI domain?
- that the use of a new sensor that is available needs time – several studies emphasize that they are preliminary, DESIS as stimulator for more regular use of such data and method development? Good outlook for EnMAP, EMIT, CHIME, SBG ...



We noticed

- that we shall explain better, what are the limitations of DESIS, e.g.
 - manufacturing defects
 - rapid change of performance below 450 nm
 - limitation in automatic geolocation
 - zero or negative values in L2A spectra
 - the AOT uncertainties and the uncertainties in the BOA
 - L2A processing over water pixels (put more effort into correction/ validation of water pixels / dark pixels)
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We already prepared a FAQ document available at the official DESIS portal

[DLR - Earth Observation Center – DESIS](#)

But we have to put more effort to describe it in the FAQ.

See also the MDPI article



Article

Data Products, Quality and Validation of the DLR Earth Sensing Imaging Spectrometer (DESIS)

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