

A photograph of a satellite in space, with Earth's blue and white atmosphere visible in the background. The satellite has a large solar panel with a complex network of black lines and gold-colored components. The main body of the satellite is covered in gold-colored thermal insulation.

Summary Panel C discussions Aerosol/cloud products

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Summary Panel C (1/7)

General

- More time needed for the assessment of existing documentation
- Update in documentation
 - Range bin setting (strategy & possibilities)
 - L2A product validation
 - More guidance with specific examples
 - Better explanation of the specific features of the Aeolus aerosol product

Summary Panel C (2/7)

General

- Communication
 - Idea of early ALERT emails, if intercomparison measurements shall be performed on a short notice period
 - Request for wiki to update about the status from day 1
 - Provide also the platform to communicate and discuss results
 - Indicate measurement status (measured/preliminary or fully analysed)



Summary Panel C (3/7) Coverage

Advertise during this years conference!

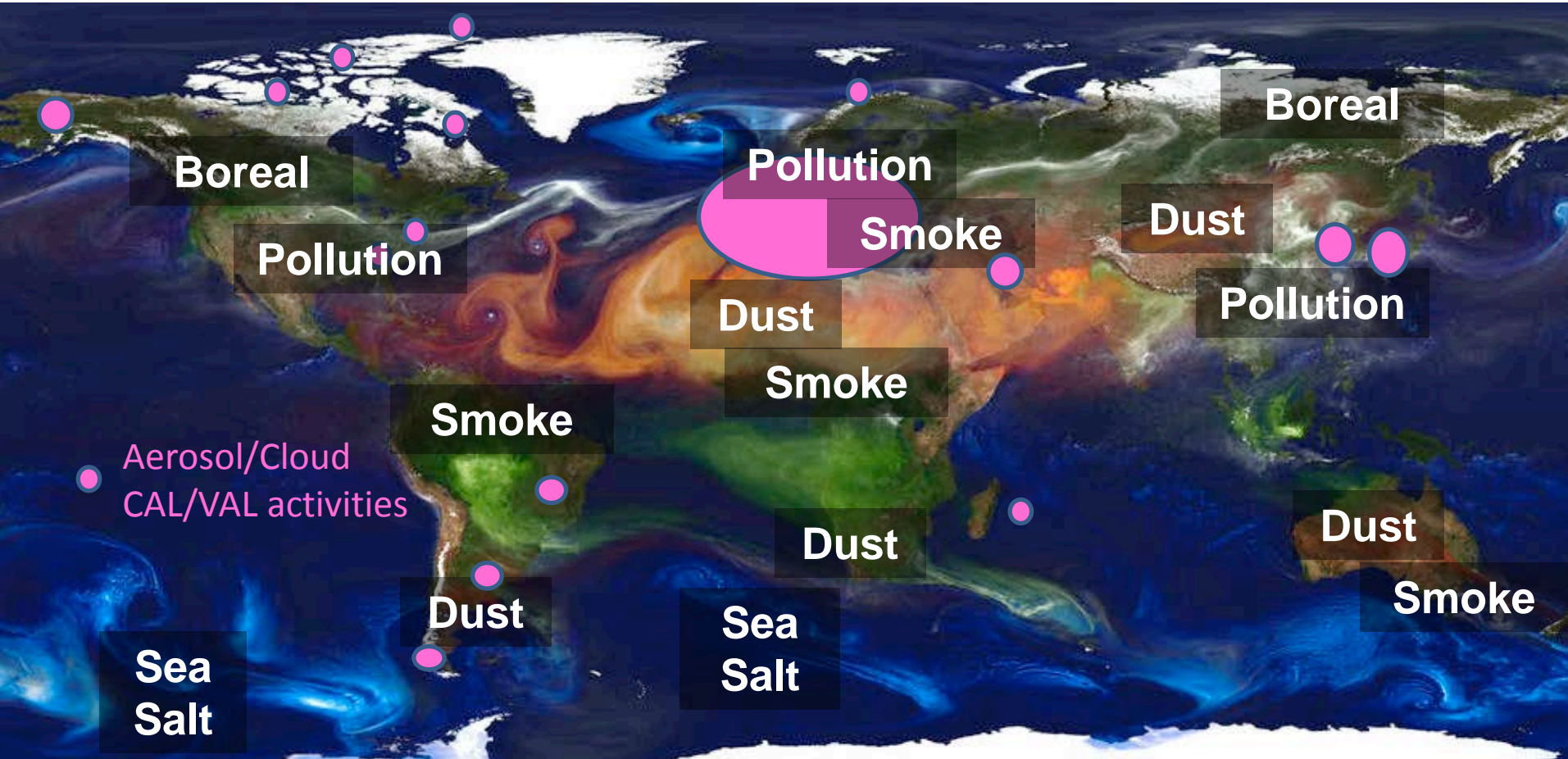


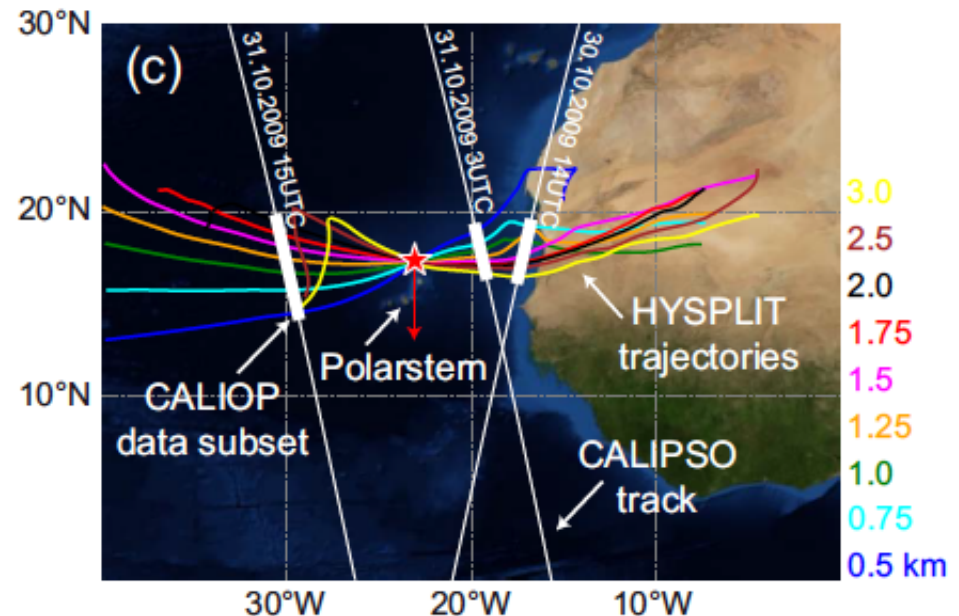
Image credit: William Putman, NASA/Goddard



Summary Panel C (4/7)

Colocation requirement

- Horizontal radius of 100km, >150min centred around the overpass
- Recommendation of trajectory analysis for data selection



Summary Panel C (5/7)

Specific features of the aerosol product

- Co-polar component of circular polarized backscattered light
- Multiple scattering effect in and below cirrus
- Spectral dependence of backscatter and extinction coefficient
- Surface removal
- Low vertical resolution
- Evaluation of applied corrections in the Aeolus aerosol retrieval (crosstalk, wind shift, line broadening)

Summary Panel C (6/7)

Validation Data exchange

- NILU validation data centre tool link to existing data bases
 - No multiple data streams
- Recommendation for unified format
 - Consider existing data formats and protocols
- Relaxed requirements for data submission
 - Responsibility of data centre to harmonise data sets

Summary Panel C (7/7)

Quality assurance

- Make use of existing QA strategies (e.g., EARLINET)
- Make use of calibration facilities (LICAL)
 - Internal quality check up tools
 - Algorithm test data with reference results

Lidar Calibration Centre

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ARE YOU SURE ABOUT THE QUALITY OF YOUR DATA?

