• Ping Wang (Evaluation of Aeolus aerosol products derived using modified ATLID algorithms) – AEL-FM PP feature mask corresponds well to CALIPSO FM despite 4 hours time difference, meaning that Aeolus, CALIPSO and EarthCARE can provide compatible results ensuring continuity of aerosol/cloud typing.

• Davide Dionisi (COLOR: CDOM-proxy retrieval from aeOLus ObseRvations) - CDOM - Chromophoric Dissolved Organic Matter. An unprecedented new opportunity to investigate the information content of the 355 nm signal backscattered by the ocean sub-surface components. Diffuse attenuation coefficient for downwelling irradiance, Kd [m-1], can be used as a proxy to describe spatial and temporal variability of CDOM.

• Lev Labzovskii (Lidar Aerosol Retrieval based on Information from Surface Signal of Aeolus) – New independent estimates from lidar surface returns -> No assumption about aerosol microphysics. Support future aerosol-oriented spaceborne instruments -> such as ATLID on EarthCARE. Non-nadir LSR-based AOD retrieval for the first time provides promising results. Clear gradient not only between land and sea, but between different land cover types.

• Will McLean (Aeolus Aerosol Assimilation in the DISC (A3D): Status and Preliminary Results) – Aeolus L2A data have been used to demonstrate the positive impact that the assimilation of particle backscatter can have on COMPO-IFS. AOD calculated with the inclusion of Aeolus L2A on top of the CAMS model results in a global positive bias in forecast minus observation.

• Daniel Santillan Pedrosa (VirES for Aeolus - Virtual Research Environment (VRE)) – Excellent new tool for visualization and scientific Aeolus data analysis suitable for both beginners and experienced users. Potential for upgrading using your own data or processing techniques. Open for feedback and collaboration regarding evolution of the tool.