



Latest aerosol algorithm developments for OMI and TROPOMI

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Improvements and development of current OMI aerosol algorithms and data products along with future TROPOMI mission algorithms is ongoing. These developments are being carried out in parallel with work conducted as a part of the ESA Climate Change Initiative (CCI) Essential Climate Variable (ECV) project for aerosols. Aims of the Aerosol-ECV project which mesh with OMI and TROPOMI algorithm development include 1) the trend analysis of aerosol index (AI) data and simulation of the AI, 2) development of common modules for treatment of surface albedo, cloud-clearing and aerosol models in an attempt to harmonize current and future European community AOT retrieval efforts. This work presents the latest developments of OMI OMAERO AI and AOT products and how they overlap with the progression of Aerosol-ECV project and its goals. Discussion will also highlight how developments from both OMI OMAERO aerosol algorithms and Aerosol-ECV project common modules will shape the future TROPOMI algorithms.