



Contribution ID: 70

Type: Poster

Review of the stratospheric CAMS products evaluation.

Since 2015, the Copernicus Atmospheric Monitoring Service (CAMS) provides analyses and forecasts as well as a reanalysis of the atmospheric composition globally. These products are provided by ECMWF and are evaluated every 3 months by the Evaluation and Quality Control (EQC) team using in-situ, ground based or satellite observations. Part of this effort is the evaluation of stratospheric composition using profiles from ozone sonde and satellite limb instrument, discussed in this contribution. Limb profiles are taken from ACE-FTS, Aura MLS (v5.0 while CAMS assimilate the NRT version), SAGE-III/ISS, OMPS-LP (from Suomi-NPP and NOAA-21 satellites), MIPAS, GOMOS and SCIAMACHY.

CAMS outputs are compared to the available observations and several statistical indicators are computed to assess the quality of the different CAMS products. We present a review of our comparison results concerning ozone (O₃), methane (CH₄), water vapor (H₂O), nitrous and nitrogen oxides (N₂O, NO_x), trichlorofluoromethane (CFC-11) and aerosols extinction coefficients.

Topic

Current and past limb and occultation instruments: algorithms, products, validation

Author: OP DE BEECK, Marc (BIRA-IASB)

Co-authors: Mr LANGEROCK, Bavo (BIRA-IASB); Mr ESKES, Henk (KNMI); Mr ERRERA, Quentin (BIRA-IASB)

Presenter: OP DE BEECK, Marc (BIRA-IASB)