

4th workshop on assimilating satellite cloud and precipitation observations for NWP



Contribution ID: 65

Type: **Poster presentation**

Towards activation of all-sky AMSU-A at ECMWF

The significant positive impact of assimilating AMSU-A in clear sky at ECMWF has long been challenging to replicate when AMSU-A is instead treated in the all-sky data stream. Through various technical changes in the treatment of all-sky AMSU-A data, it is nearing the point where all-sky AMSU-A can outperform its clear-sky counterpart. In hopes of achieving this, the impacts of changes to data thinning, variational quality control (VarQC), and scene-dependent observation errors are probed in a series of experiments. The relative improvement of these individual technical changes in the treatment of all-sky AMSU-A data is primarily judged against short-range forecast fits to other observations.

Primary authors: DUNCAN, David (ECMWF); WESTON, Peter (ECMWF); BORMANN, Niels (ECMWF); GEER, Alan (ECMWF)

Presenter: DUNCAN, David (ECMWF)

Session Classification: Poster session with self-serve tea and coffee

Track Classification: 4th workshop on assimilating satellite cloud and precipitation observations for NWP