QualiMET2.0, the new Quality Control System of Deutscher Wetterdienst.

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Abstract
Deutscher Wetterdienst (DWD) is developing a new quality control system, called QualiMET2.0. The presentation gives an overview of the planned new procedures and the requirements for this new way of quality control.

The previous system is in operation since more than 15 years. Many of the algorithms for internal consistency checks are based on visual observations from professional and voluntary observers. But, DWD decided to run a fully automated observing network without manual observations as from 2020. This is the main reason for the new way of quality control algorithms based on “weather conditions” reconstructed from radar- and satellite-data. QualiMET2.0 will replace the previous system for quality control of processed AWS data (conversion of Level I data into Level II data). The future way from raw AWS data to the calculation of climatological data will be presented.

The second module of QualiMET2.0 is the software for real time monitoring and quality control of meteorological aerodrome reports (METAR). An overview of the pre-operation experiences of this module will be given.