



Status of global radiosonde temperature and wind bias correction

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It is a major aim of ERA-CLIM to further improve traditional offline bias correction methods as well as to develop variational bias correction techniques for radiosondes and to provide an assessment of their capabilities at the end of the project. Another aim is to demonstrate that the uncertainty in the radiosonde records has reduced due to better understanding of data and homogenization techniques.

In this presentation a preliminary assessment will be given based on the most significant results achieved so far in work package 4 of ERA-CLIM. These will include updated versions of the RAOBCORE/RICH dataset using NOAA 20th century reanalyses as well as ERA-20C reanalyses going back to the 1930s as well as substantially improved metadata. It will also include results from assimilation experiments as well as from the statistical model used for variational bias correction of temperature and wind in more recent times.