



An assessment of the structural uncertainty of the HadEX2 dataset.

R.J.H. Dunn (1), M.G. Donat (2), L.V. Alexander (2,3)

(1) Met Office, Hadley Centre, Exeter, United Kingdom (robert.dunn@metoffice.gov.uk), (2) Climate Change Research Centre, UNSW, Sydney, Australia, (3) ARC Centre of Excellence for Climate System Science, UNSW, Sydney, Australia

The HadEX2 dataset updates the extremes-index based HadEX dataset to 2010, and also extends the coverage back to 1901. The methodological choices for this dataset have been kept very close to those for HadEX to allow for easy comparison between the two datasets. We will present results of an investigation into how robust the large scale patterns of a subset of the HadEX2 indices are to changes in the methodology. These changes will include the gridding method, the number of stations within a grid box and using only long-term stations, amongst others. This assessment will probe some of the structural uncertainty of this dataset and provide an indication as to the reliability of global and regional trends.