

S5E1

The Met Office Hadley Centre Sea Ice and Sea-surface Temperature Dataset, HadISST.2.2.0.0

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An update of the Hadley Centre Sea Ice and Sea-Surface Temperature data sets is described. It uses homogenised satellite data from the AVHRR and ATSR instruments together with homogenised in situ data. The AVHRR data are from the ESA SST CCI project, updated using operational SST retrievals from METOP. The ATSR data are from the ARC ATSR Reprocessing for Climate. The in situ data have improved bias estimates, which allow for closer matching with the ATSR data. Quality control of the in situ data was also improved. Together with ship-by-ship bias estimates, this reduces the appearances of “streaks” caused by biased ships and drifters in the reconstructed fields. Reconstruction, as in previous versions of HadISST.2, is via a two-step process with uncertainties represented via an ensemble. Improvements to the local-interpolation allow for a greater number of ensemble members to be generated more efficiently and reduce numerical instabilities in the reconstruction.

Oral

- **Reconstructing past climates (products)**