

S4T3

Improvements to the low-resolution Met Office Hadley Centre Sea Surface Temperature data set, HadSST

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A number of improvements to the low-resolution long-term sea-surface temperature data set, HadSST, are described. These include: improvements to the basic Quality Control that slightly increase coverage in the Southern Hemisphere; improvements to the gridding and uncertainty calculations and improvements to the bias adjustments. The bias adjustments now include a broader exploration of parametric uncertainty and are fixed relative to drifting buoys. A simple interpolation technique, combined with the improved error model is used to make estimates of global Engine Room biases and local, ship-by-ship biases in the data at the same time as producing a more globally complete data set of sea-surface temperatures. Validation of the interpolated data (both mean and uncertainty estimates) is performed relative to high quality data (Drifting buoys, Argo, ARC).

Oral

- **Reconstructing past climates (methods)**