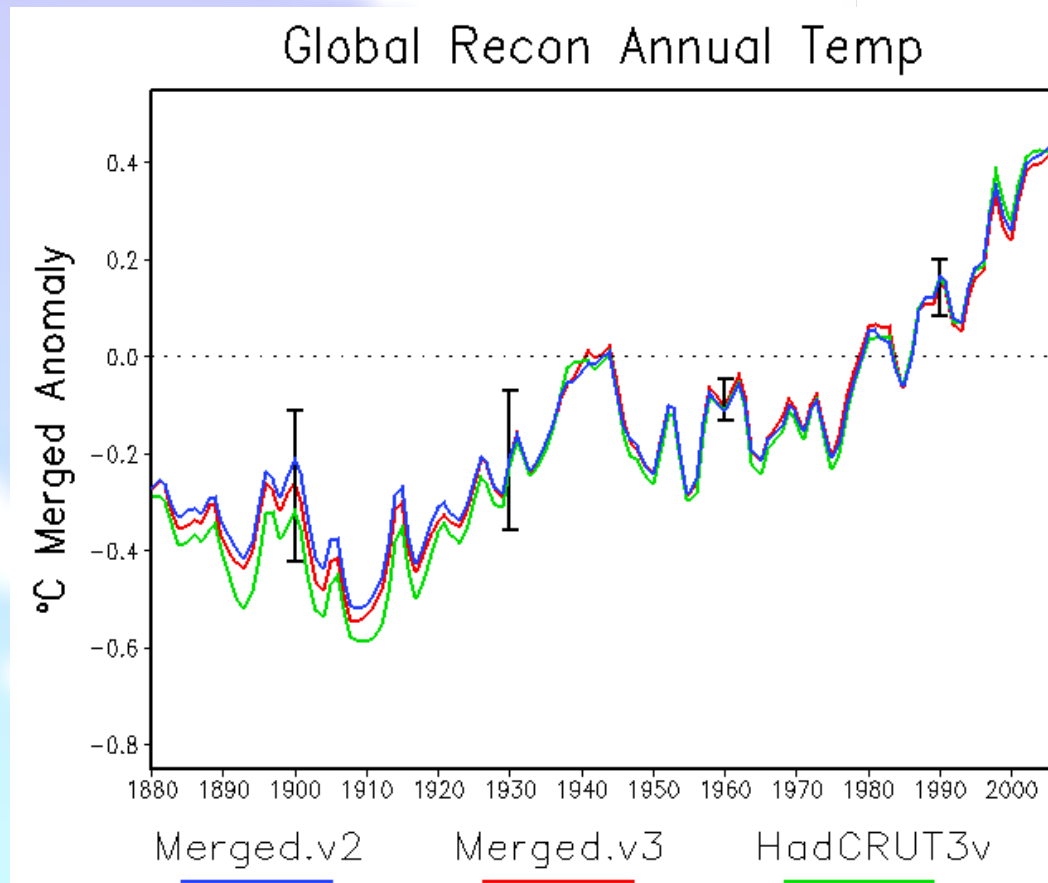




Historical Reconstruction of Surface Temperatures

- Joint work: NCDC, CICS/ESSIC, and STAR/SCSB
 - Separate SST and land temperature reconstructions merged
- Improved analyses
 - Improved tuning to better resolve historical variations and better estimate errors
- Products used for climate monitoring and prediction
 - NOAA historical temperature-monitoring analysis
 - Contributes to national and international climate studies



Global and annual merged temperature anomalies from the old NOAA analysis (Merged.v2), the new NOAA analysis (Merged.v3), and the merged Hadley Centre and Jones analysis (HadCRUT3v). The 95% confidence limits reflecting all errors estimated for Merged.v3 are drawn for the years 1900, 1930, 1960, and 1990.

Documentation:

Smith, T.M., R.W. Reynolds, T.C. Peterson, and J. Lawrimore, 2008: Improvements to NOAA's Historical Merged Land-Ocean Surface Temperature Analysis (1880-2006). *J. Climate*, **21**, 2283-2296.