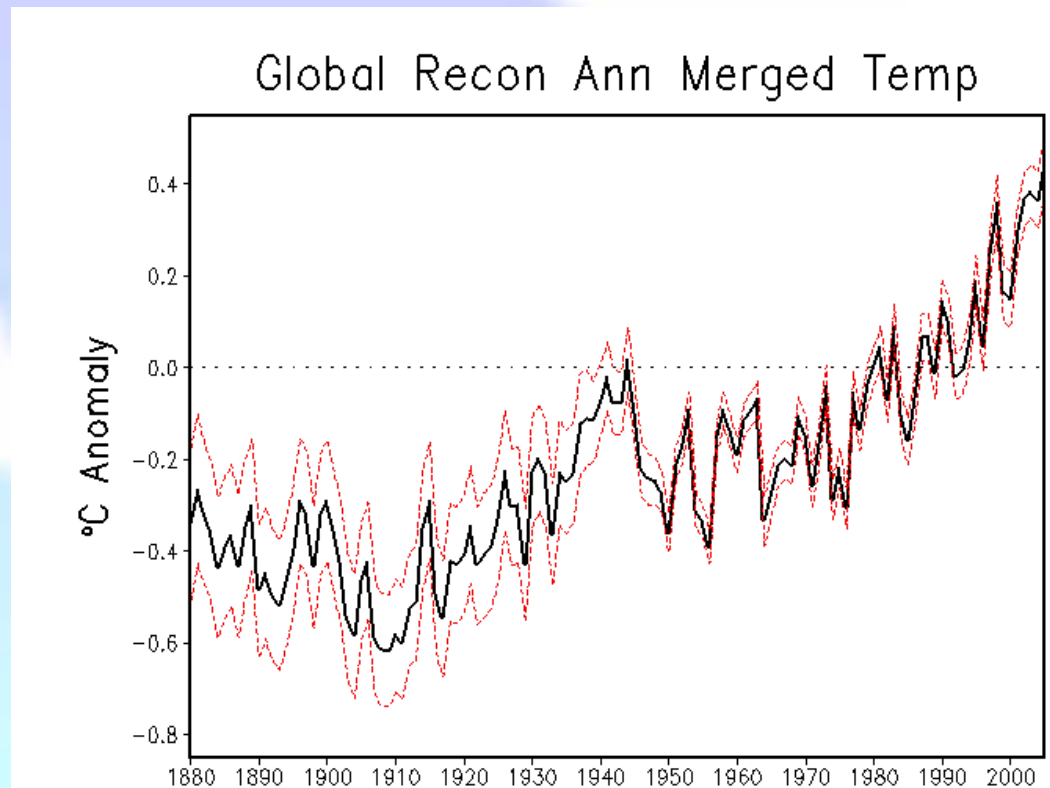




Surface Temperature Analyses

- Joint work: NCDC and CICS/ESSIC
 - SST reconstructions and new high-resolution analysis
 - Land temperature reconstruction
- Products used for climate monitoring and prediction
 - Reynolds, R.W., H.-M. Zhang, T.M. Smith, C. Gentemann, and F. Wentz, 2005: Impacts of *in situ* and additional satellite data on the accuracy of a sea surface temperature analysis for climate. *Int. J. Climatol.* **25**, 857-864.
 - Shen, S.S.P., H. Yin, and T.M. Smith, 2006: An estimate of the error variance of GHCN monthly surface air temperature data. *J. Climate*, **20**, 2321-2331.
 - Reynolds, R.W., T.M. Smith, C. Liu, D.B. Chelton, and K.S. Casey, 2007: A Daily 0.25° Blended Analysis for Sea Surface Temperature *J. Climate* (in press)
 - Smith, T.M., and R.W. Reynolds, 2007: Improved Reconstruction of Historical Merged Land-Ocean Surface Temperatures. *J Climate* (conditionally accepted for publication)



Global and annual average land and ocean temperature anomaly with 90% confidence intervals