



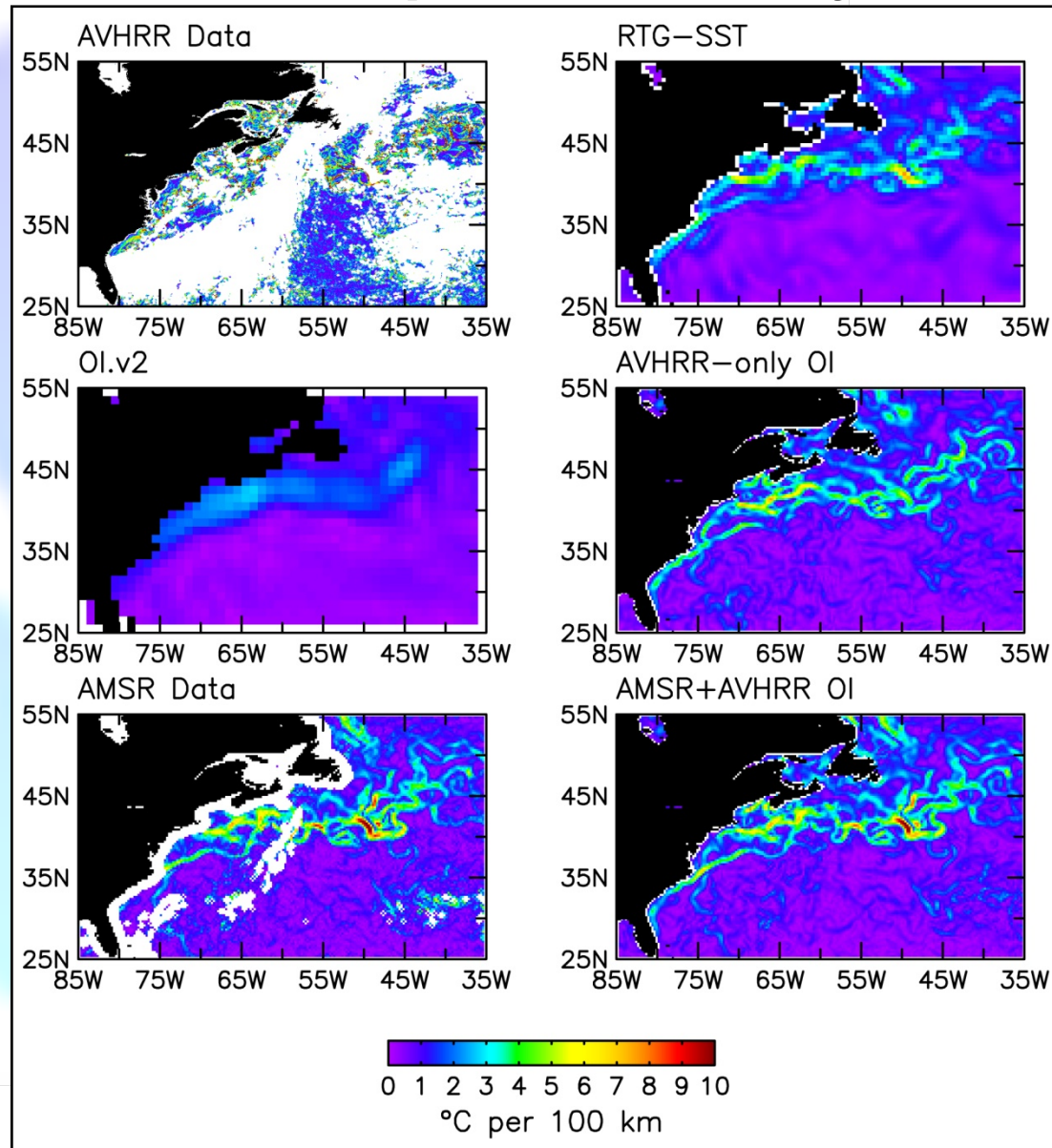
# High-Resolution Sea-Surface Temperature Analysis

- Joint work: NCDC, CICS/ESSIC, and STAR/SCSB
- High Resolution
  - 0.25-degree spatial and daily
- Improved analysis methods
  - Incorporation of AMSR & AVHRR satellite data
  - Satellite bias adjustment improved
  - Statistics improved for high resolutions
  - Error estimate improved
- Better resolution of fronts and rapidly changing features
  - Gives better boundary for climate and weather models
  - Testing to ensure that features represented are resolved by the available sampling

## Recent documentation:

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.

Reynolds, R.W., T.M. Smith, C. Liu, D.B. Chelton, K.S. Casey, and M.G. Schlax, 2007: Daily High-Resolution-Blended Analyses for Sea Surface Temperature. *J. Climate*, **20**, 5473-5496.



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