

## **A New High-resolution Blended Real-time Global Sea Surface Temperature Analysis**

H. Jean Thiebaux (Dalhousie University, Department of Oceanography)  
thiebaux@phys.ocean.dal.ca

### **Abstract**

A new blended high-resolution real-time global sea surface temperature analysis (RTG\_SST), developed specifically for use in operational numerical weather forecasting models, was implemented in NCEP's operational job stream on 30 January 2001. Each daily analysis uses the most recent 24-hours receipts of in situ and satellite-derived surface temperature data and provides a global SST field on a  $0.5^\circ \times 0.5^\circ$  (latitude, longitude) grid. The RTG\_SST provides the sea surface temperature fields for the regional Meso Eta Model, replacing the previously used NESDIS 50 km satellite-only SST analysis.

Here we describe the development and implementation of the RTG\_SST; compare its properties with those of the Reynolds-Smith (RS) analysis (1994) and the NESDIS sea surface temperature analysis.