

## **I-COADS data and products**

Steven J. Worley<sup>1</sup>, Scott D. Woodruff<sup>2</sup>, and Richard W. Reynolds<sup>3</sup>

<sup>1</sup>National Center for Atmospheric Research (NCAR), Boulder CO, USA

<sup>2</sup>Climate Diagnostics Center, NOAA/OAR, Boulder, CO, USA

<sup>3</sup> National Climatic Data Center, NOAA/NESDIS, Asheville, NC, USA

E-mail: worley@ucar.edu

The International Comprehensive Ocean-Atmosphere Data Set (I-COADS) is currently available at Release 2.0, spanning 1784 through 1997. Preliminary data derived from the Global Telecommunication System are updated monthly to supplement I-COADS. The marine observations, data products, and supplemental data and metadata are freely distributed worldwide by the cooperating organizations: the NSF National Center for Atmospheric Research, and the Climate Diagnostics and National Climatic Data Centers of NOAA. A review will be given of the different products and formats offered from these organizations, which address a variety of user requirements.

Highlights about new developments and forthcoming plans will also be given. These include a 1998-2002 update and expanded near-real-time updates, enhancements planned for historical periods based on new international sources, and improved products and metadata such as web-based information about user-detected problems. Under the auspices of the Joint WMO/IOC Commission on Oceanography and Marine Meteorology (JCOMM), an ASCII-based International Maritime Meteorological Archive (IMMA) format is being introduced—this will ease complexity and improve observational data access, both for users and data providers.