

Review of 2008 accomplishments for Scientific Data Stewardship grant

PROPOSAL TITLE: Preparation of in situ temperature and salinity profile data CDRs for joint studies of sea level with altimeter and GRACE data

Identification number GC07-457

NOAA/OGP:
Office of Climate Observations- SCIENTIFIC DATA STEWARDSHIP

July 16, 2008

PROJECT MANAGER: Sydney Levitus

CONTACT INFORMATION:

P.I.- Sydney Levitus
NODC/NOAA, E/OC5
1315 East West Highway
Silver Spring, MD 20910
e-mail: sydney.levitus@noaa.gov
Tel: 301-713-3294
FAX : 301-713-3303

Highlights of FY08

As of July 2008 this project has supported the processing of approximately 197,000 Ocean Station Data casts and 184,000 Conductivity-Temperature-Depth casts for inclusion into *World Ocean Database 2009* (WOD09). All these data have in fact been made available online to interested users to use before WOD09 and final quality control is completed.

Plans for FY09

Additional data will be added and WOD09 made available online. The additional historical and modern temperature-salinity data which are used to computer the thermosteric component of sea level change have been, and will continue to be, valuable for evaluation of satellite estimates of sea level change from altimeters such as TOPEX/POSEIDON and JASON-2. We will prepare estimates of the variability of this quantity for the 1955-2008 period. Such work has figured in the recent IPCC 4th assessment.

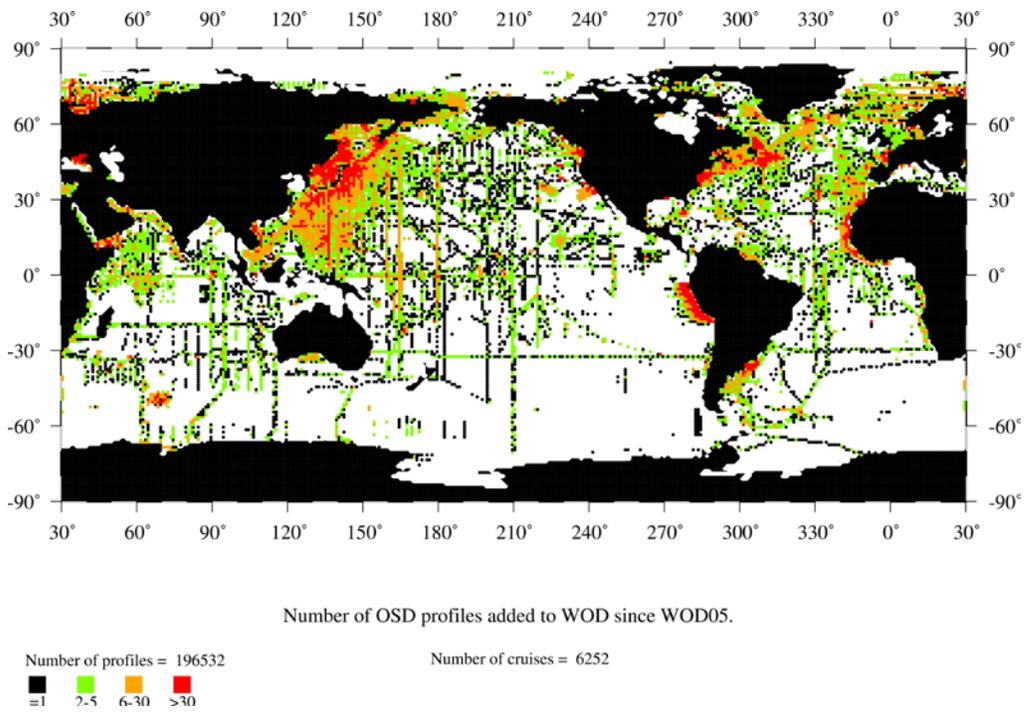


Figure 1. Distribution of Ocean Station Data casts added to the World Ocean Database since publication of *World Ocean Database 2005* and processed with support from the Scientific Data Stewardship Program.

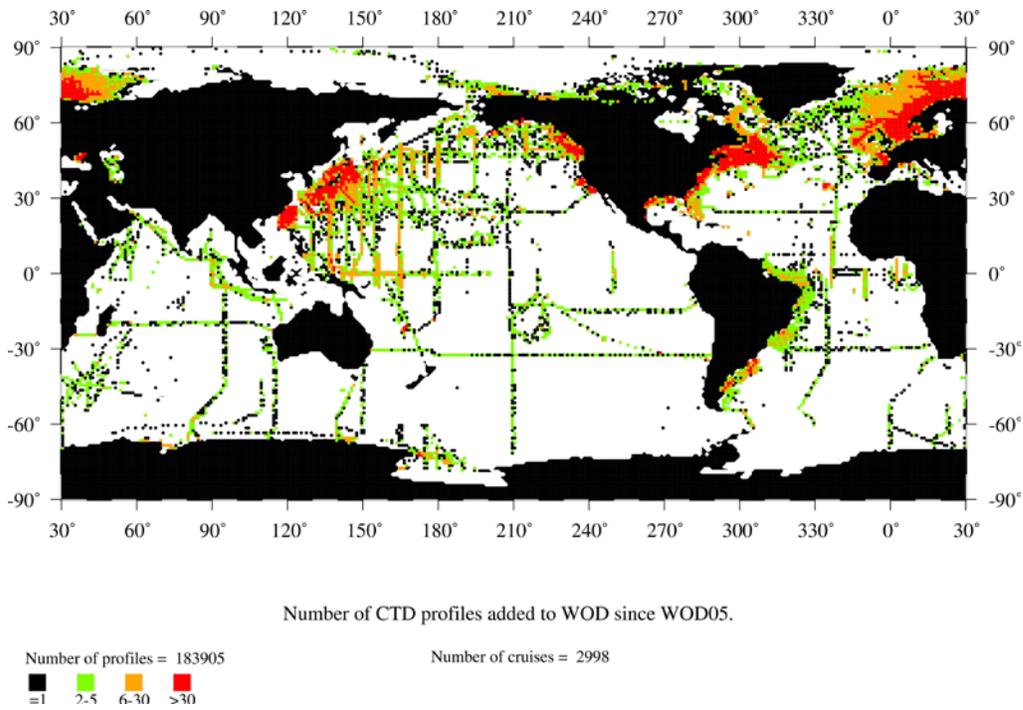


Figure 2. Distribution of Ocean Conductivity-Temperature-Depth casts added to the World Ocean Database since publication of *World Ocean Database 2005* and processed with support from the Scientific Data Stewardship Program.