History and Results of the IOC GODAR Project

2nd International Workshop for GODAR WESTPAC

Sydney Levitus Director, WDC for Oceanography- Silver Spring

Japan Oceanographic Data Center, Tokyo November 10-12, 2004

The Global Oceanographic Data Archaeology and **Rescue (GODAR)** Project

Established in 1993 by the Intergovernmental Oceanographic Commission.

"Data Archaeology":

the process of seeking out, restoring, evaluating, correcting, and interpreting historical data sets;

"Data Rescue":

the effort to save data at risk of being lost to the science community by digitizing manuscript data and copying data on older, failing electronic media, and then archiving these data into an internationally available electronic database. 2

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PROBE (Instrument Type)	WOD98	ADDED	TOTAL	
Bottle (OSD)	1,373,440	746,602	2,121,042	
Mechanical Bathythermograph (MBT)	2,077,200	299,006 2,376,20		
Expendable Bathythermograph (XBT)	1,537,203	206,389 1,743,5		
High Resolution Conductivity/Temperature/Depth (HCTD)	189,555	122,789	312,344	
Profiling Float (e.g., PALACE, SOLO, APEX)	0	22,637	22,637	
Moored Buoy (e.g. TAO, PIRATA, TRITON)	114,634	182,762	297,936	
Drifting Buoy	0	50,549	50,549	
Towed Conductivity/Temperature/Depth (UOR)	0	37,651	37,631	
Autonomous Pinniped Bathythermograph (APBT)	0	75,665	75,665	
Total Casts/Profiles	5,292,032	1,773,383	7,037,062	
Total Surface-Only Observations	159,794	1,650,852	1,810,646	







Regional GODAR	Project meetings
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Six regional *GODAR Project* workshops were held worldwide that encompassed all countries that make oceanographic measurements.

Attendance of these meetings in total was approximately 150 oceanographic data managers and scientists.

GODAR	1	Obninsk, Russia	May, 1993
GODAR	II	Tianjin, China	March, 1994
GODAR	III	Goa, India	December, 1995
GODAR	IV	Valletta, Malta	April, 1995
GODAR	V	Cartagena, Colombia	April, 1996
GODAR	VI	Accra, Ghana	March, 1997.
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Each meeting produced a Workshop Report that included listings of data in Manuscript and electronic form in each participating country.

International GODAR Review Meeting

July 1999, Silver Spring, Maryland

Meeting conclusions:

- 1) GODAR Project has been successful,
- 2) variables to be included under the *GODAR Project* should be expanded to include sea level,
- 3) GODAR-WESTPAC project be initiated.

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GODAR data and project announcements

- UNESCO, IMS Newsletter
- ICES CIEM Information Newsletter
- NOAA/Earth System Monitor
- U.S. JGOFS News
- Global Change Newsletter
- Bulletin American Meteorological Society
- EOS Transactions, Section News
- Computing Magazine
- NODC Environmental Information Bulletins
- Arctic Forum 2002

INTERNATIONAL PROGRAM SUPPORT FOR DATA ARCHAEOLOGY AND RESCUE ACTIVITIES

Support for data archaeology and rescue activities in oceanography and meteorology,

and specifically for the *GODAR Project* has come from many sources,

e.g.,

World Climate Research program's *CLIVAR* program (WCRP, 1995; 1999)

and

the IPCC Assessment (1996).

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FINANCIAL SUPPORT FOR THE GODAR PROJECT

The IOC has provided important support in the form of staff time and resources.

The NOAA Climate and Global Change Program and the NOAA ESDIM Program have provided crucial support for U.S. participation, for meeting support, visits by scientific and data management personnel, and for digitization of many data sets for the world ocean.

The European Community has provided support for the MEDAR/MEDATLAS project and for GODAR meetings.

Individual countries and international institutions (e.g. ICES) have provided support as Japan is doing with its leadership of the GODAR-WESTPAC Project.

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THE WORLD OCEAN DATABASE PROJECT

"World Ocean Database Project" was proposed by S. Levitus at the IODE XVI meeting held in Athens, Greece during December, 2001.

The purpose of this project is to:

- a) Encourage a more timely exchange of modern oceanographic data;
- b) Encourage the development of regional quality control procedures for oceanographic data;
- c) Encourage the development of regional oceanographic atlases.

Planning for a meeting on "Quality Control of Oceanographic Profile-Plankton Data" will start soon. Meeting to be held within one year.









