Cata summary

Southern Surveyor Voyage 7/2007





SS 2007/07

"Evolution of drowned shelf edge reefs in the GBR: implications for understanding abrupt climate change, coral reef response and modern deep water benthic habitats"

Dr Jody Webster, School of Earth and Environmental Sciences, James Cook University, Townsville, QLD

Dr Robin Beaman, School of Earth and Environmental Sciences, James Cook University, Townsville, QLD

Professor Peter Davies, School of Geosciences, University of Sydney, NSW

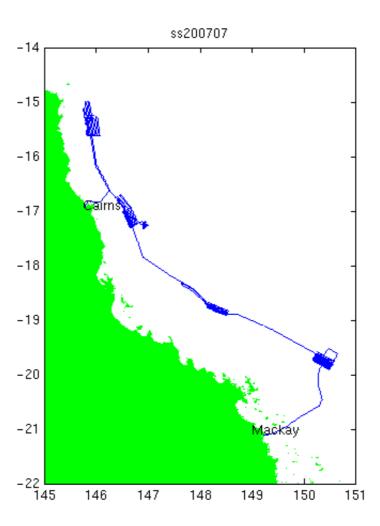
Dr Stefan Williams, Australian Centre for Field Robotics, University of Sydney, NSW

Professor Maria Byrne (not on board), Department of Anatomy and Histology, University of Sydney, NSW

Cairns—Mackay

Wednesday, 26 September 2007—Tuesday, 16 October 2007

Data Summary SS 7/2007



Underway Data

Navigation data is acquired using the Seapath 200 position and reference unit, which is also differentially corrected by data from the FUGRO DGPS receiver.

The Meteorological data consists of 2 relative humidity and temperature sensors; a barometer, wind sensor, and licor light sensor.

Thermosalinograph data is acquired with a Seabird TSG and remote temperature SBE 3T. Data from a flow meter is also recorded.

Digital depth data is recorded from a Simrad EA500 sounder. Echograms are also recorded using SonarData's Echolog software. Digital depth data can be repicked using SonarData's Echoview software.

See Electronics report for this voyage for instruments used and serial numbers.

Navigation, Meteorological, Thermosalinograph and Depth data are quality controlled by combining all data from hourly recorded files to 10 second values in a netCDF formatted file; the combined data is referred to as "underway data".

A combined file was made on 23 October 2007 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 6.5. The data time range is 03:09:50 26-September-2007—21:16:30 15-October-2007 (GMT).

Completeness and Data Quality

Position (latitude and longitude); meteorological data (air temperature, humidity, wind speed, wind direction, maximum wind gust, light and atmospheric pressure) and thermosalinograph (salinity and water temperature) data and depth data were evaluated and quality controlled.

Processing Comments

Salinity and Water temperature data were rejected when the instrument was being tested.

29-September-2007 23:40:50—01-October-2007 01:46:20

The depth data was re picked using Sonar Data's echoview software.

Final Underway Data

The navigation, meteorological, thermosalinograph and depth data will be entered into the CMAR Divisional data warehouse.

References

Pender, L., 2000. Data Quality Control flags. http://www.csiro.marine.au/datacentre/ext_docs/DataQualityControlFlags. Pdf

	Processing Agency	Processing Status
Navigation	CMAR	Completed
Meteorological	CMAR	Completed
Thermosalinograph	CMAR	Completed
Depth	CMAR	Completed

Bernadette Heaney

CSIRO Marine and Atmospheric Research Hobart, Tasmania Australia

