Cata summary

Southern Surveyor Voyage 6/2007





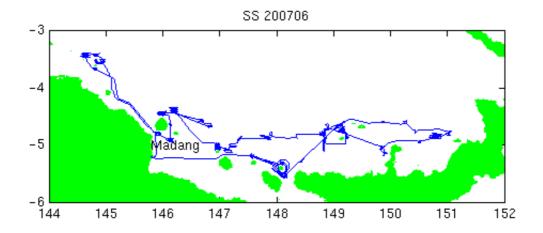
SS 2007/06

"Volcanism and tectonism of the South Bismarck Microplate, Papua New Guinea"

Dr Richard Arculus, (Chief Scientist) Department of Earth and Marine Sciences Australian National University Canberra

Madang—Madang

Wednesday, 25 July 2007—Tuesday, 14 August 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 22 August 2007 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 6.5. The data time range is 08:02:50 25-July-2007—06:42:40 13-August-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 pumps were down and the flow rate was low through the voyage.

13:27 25-Jul-2007—18:27 25-Jul-2007—no TSG flow

20:11 27-Jul-2007—23:56 27-Jul-2007—instrument turned off for cleaning 00:57 09-Aug-2007-01:31 09-Aug-2007 04:36 10-Aug-2007-17:56 10-Aug-2007 21:52 12-Aug-2007-06:42 13-Aug-2007—stopped at end of voyage

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

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