CSIRO MARINE RESEARCH

Processing Notes

# SS 2/2006

10:00 01-Mar-2006 Port Lincoln - 08:00 15-Mar-2006 Hobart

*(Local times)*

*Data processing completed by*
**Bernadette Heaney, May 2006**

## 1. Summary

These notes relate to the production of quality controlled (QC-ed), position, depth, meterological and thermosalinograph data from RV Southern Surveyor voyage 2/2006.

## 2. Voyage details

"AUSCAN 2006 and PALEO-MURRAYS: Geological and biological investigations of the Murray Canyons Group"

### 2.1 Principal Investigator

Dr Patrick De Deckker, The Australian National University, Canberra


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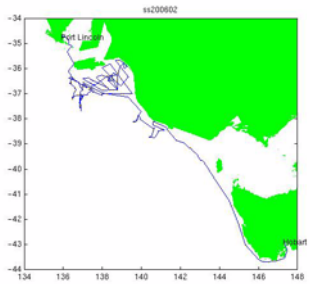


# 3. Processing Notes

## 3.1 Background Information

Position data was acquired using the Seapath 200 position and motion reference unit (which also is differentially corrected by data from the FUGRO DGPS receiver).

Digital depth data was acquired with the Simrad EA500 sounder. Echograms were also recorded using SonarData's Echolog software.

Thermosalinograph data was acquired with a Seabird TSG (S#1777) and remote temperature SBE 3T (S#2621).

The "Met" station consists of 2 relative humidity and temperature sensors, port (X2030106) and starboard (X20303107). A barometer (465595), wind sensor (type 05103) and licor light sensor (UWQ3708) and rain gauge type 50202, serial number 236.

A combined underway file for the entire voyage, consisting of 10 second values of position, depth, meterological and thermosalinograph variables was remade on 22 Mar 2006 - by reading data from hourly files returned from the voyage. (Time range 01-Mar-2006 00:15:00 - 14-Mar-2006 19:44:50).

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The water depth was “repicked” using SonarData’s Echoview software.

The meteorological data consists of air temperature, humidity, light, atmospheric pressure, wind speed and direction and maximum wind gust and rain. The rain values increase to 50 mm then restart at 0.

The thermosalinograph (TSG) data consists of water temperature and water salinity. The salinity data was compared with analysed bottle samples; and were within tolerable range.

The gps data from the Seapath MRU unit. There were no problems with the data.

## 4. Other

The navigation, depth, meteorological and thermosalinograph data will be entered into the data warehouse. Position, depth and meteorological and thermosalinograph data extracted from the underway file will be available online.

## 5. References

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

Bernadette Heaney

CSIRO Marine Research

Hobart, Tas, Australia