

SS 7/2003

10:00 22 August 2003 Fremantle - 10:00 30 August 2003 Fremantle (Local times)

Data processing completed by
Bernadette Heaney, December 2003 (modified April 2004)

1. Summary

These notes relate to the production of quality controlled (QC-ed), position, depth and meteorological data from RV Southern Surveyor voyage 7/2003.

Position data was acquired using an Ashtech OEM 2 sensor. Depth data was acquired with the Simrad EA500. The Divisional Data Librarian can assist with information regarding all other sensors.

In April 2004 it was decided to reprocess the corrected wind speed and direction data due to problems with the data from the ship's log which is usually used to reconfirm the wind speed and direction data.

2. Voyage details

“Seasonality in Community Structure, Productivity and Energy flows in the Continental Shelf and Offshore Pelagic Environment off Southwestern Western Australia”

Processing Notes

2.1 Principal Investigator

Dr Tony Koslow

CSIRO Marine Research

3. Processing Notes

3.1 Background Information

A combined underway file for the entire voyage, consisting of 10 second values of position, depth, and other underway variables was remade on 3 December 2003 - by reading data from hourly files returned from the voyage. (Time range 09:54:20 22-Aug-2003 to 00:55:40 30-Aug-2003).

The meteorological data consists of air temperature, humidity, light, atmospheric pressure, wind speed and direction and maximum wind gust.

In April 2004 the uncorrected wind speed and direction values were extracted from the .mer files and "corrected" using ship heading, from the gyro compass and ship speed over ground and ship course over ground from the .gpd files. The resultant wind speed and direction values were added to the ss200307.nc file. The maxWindGustQC flag was set to bad.

The water depth was "repicked" using echoview software. The depth data was interpolated to 10 second values. The new depths were read back into the netcdf file.

4. Other

The 10 second navigation, depth and meteorological data will be entered into the data warehouse. Position, depth and meteorological data extracted from the underway file is available online.

Processing Notes

5. References

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

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