
SS 4/2004

17:00 10 April 2004 Hobart- 9:30 16 April 2004 King Island - Leg 1

14:00 16 April 2004 King Island - 14:00 29 April 2004 Sydney Leg 2

(Local times)

Data processing completed by
Bernadette Heaney, June 2004

1. Summary

These notes relate to the production of quality controlled (QC-ed), position, depth and meteorological and thermosalinograph data from RV Southern Surveyor voyage 4/2004.

Position data was acquired using the Seapath 200 position and motion reference unit. Depth data was acquired with the Simrad EA500. The Divisional Data Librarian can assist with information regarding all other sensors.

2. Voyage details

“Testing, refinement and application of methodology for optimised seabed mapping on the continental shelf and slope (200-2000 m depth) to support sustainable management of biodiversity and fisheries”

2.1 Principal Investigators

Dr Alan Williams and Rudy Kloser

CSIRO Marine Research, Hobart

Processing Notes

3. Processing Notes

3.1 Background Information

Thermosalinograph raw files were modified to interpolate across spikes in temperature values.

A combined underway file for the entire voyage, consisting of 10 second values of position, depth, meteorological (including uncorrected wind speed and direction) and thermosalinograph variables was remade on 15 June 2004 - by reading data from hourly files returned from the voyage and modified .tsr files. (Time range 07:12:20 10-Apr-2004 - 02:10:00 29-Apr-2004).

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.

The meteorological data consists of air temperature, humidity, light, atmospheric pressure, wind speed and direction and maximum wind gust. The wind speed and direction were re-calculated from uncorrected wind speed and direction, ships heading and ship speed overground and ship course over ground. The maxWindGustQC flag was set to bad.

The thermosalinograph data consists of water temperature and water salinity.

At three sites, bottle salinity samples were taken and salinity values determined.

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 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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