

data summary

Southern Surveyor Voyage ST 7/2007



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ST 7/2007

Principal Investigator

Tim Ryan

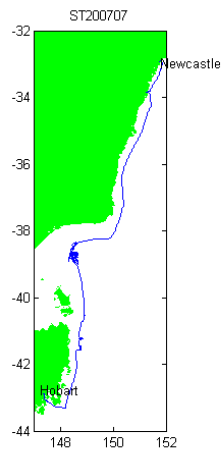
Ports

Newcastle - Hobart

Date

Saturday, 24-Nov-2007 – Thursday, 29-Nov-2007

Voyage Track



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 3-Dec-2007 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 7.2. The data time range is 18:43:20 23-Nov-2007 – 20:26:40 28-Nov-2007.

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 there was no water flow at the end of the voyage, 28-November-2007 20:19:00

The depth data was re picked using Sonar Data's echoview software. The depth from the swath data is also included in the netcdf file. There was good swathDepth data coverage. It is noted that the sounder time was about 50 seconds slower than the network time until 01:56:01 27-Nov-2007; which could lead to a 325 metre difference in the position.

Final Underway Data

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

ADCP Data

No ADCP data was collected on this voyage.

References

Pender, L., 2000. Data Quality Control flags.

http://www.csiro.marine.au/datacentre/ext_docs/DataQualityControlFlags.Pdf

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