

Southern Surveyor Voyage ST 6/2007





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# ST 6/2007

# Principal Investigator

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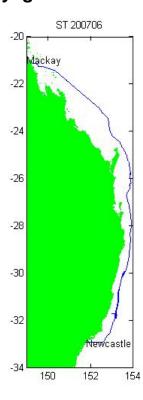
## **Ports**

Mackay - Newcastle

## Date

17-Oct-2007 - 22-Oct-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 21-November 2007 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 6.9. The data time range is 23:55:00 16-October-2007—21:25:00 21-October-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 pump wasn't turned on at the start of the voyage.

Up to 17-October-2007 00:14:40

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.

#### ADCP Data

The Acoustic Doppler Current Profiling data was collected using an RDI vessel mounted Ocean Surveyor with a frequency of 75kHz. RDI's Vessel Mounted Data Acquisition System was used to acquire the data.

Long Term Averaged files were re-created using VMDAS as no LTA file were returned from the ship.

Each ensemble time was 5 minutes.

### **Completeness and Data Quality**

Data coverage

17-Oct-2007 00:27:13 - 21-Oct-2007 21:23:15

#### **Processing Comments**

Data were processed using University of Hawaii's "CODAS" processing system. The data was calibrated with rotate\_angle -46.7988 and rotate\_amplitude 1.0

#### **Final ADCP Data**

One file, st200706adcp.nc, contains the data for the entire voyage.

#### References

Pender, L., 2000. Data Quality Control flags. http://www.csiro.marine.au/datacentre/ext\_docs/DataQualityControlFlags. Pdf

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