

# data summary

Southern Surveyor Voyage SS 01/2008



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**SS 01/2008**

***Title***

“Reconstruction of paleo-oceanography and climate of SE Australia and the Southern Ocean from analysis of deep-sea corals“

***Principal Investigators***

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Dr Jess Adkins, California Institute of Technology

Dr Alan Williams, CSIRO Marine and Atmospheric Research, Hobart

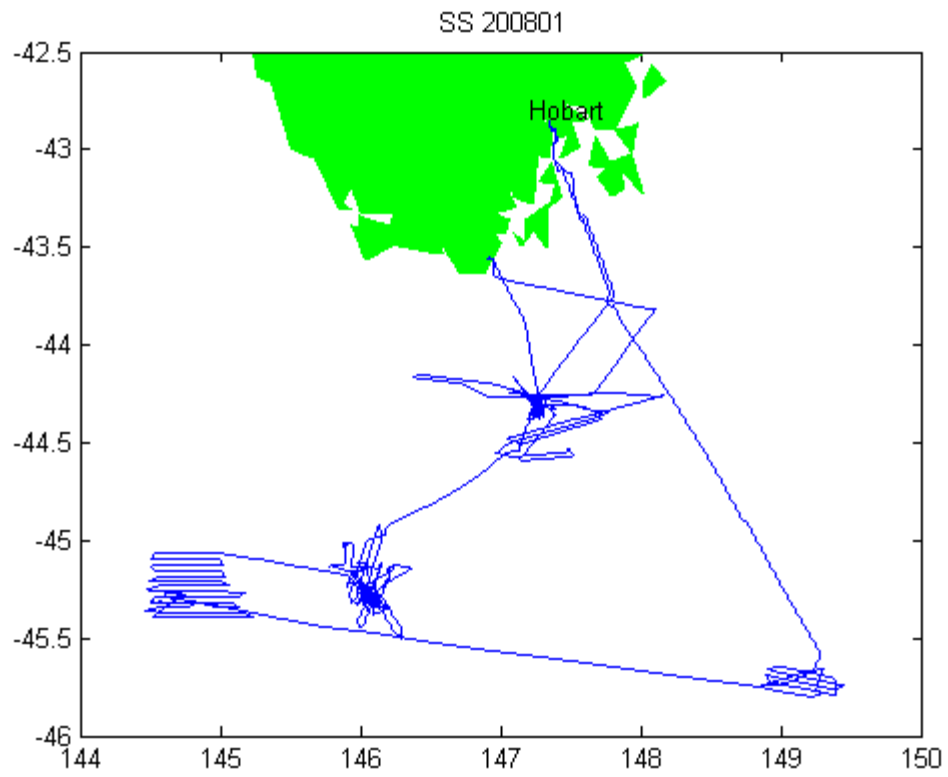
***Ports***

Hobart – Hobart

***Date***

11 January – 1 February 2008

## ***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 13 February 2008 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 7.4. The data time range is 08-Jan-2008 06:38 – 31-Jan-2008 19:47 (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 tsFlow value indicated the pumps were off.

20-Jan-2008 11:05 – 20-Jan-2008 16:06

31-Jan-2008 19:35 – 31-Jan-2008 19:47 (at end of voyage)

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.

Unfortunately, due to instrument problems no data can be processed for this voyage.

### ***References***

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

[http://www.csiro.marine.au/datacentre/ext\\_docs/DataQualityControlFlags.Pdf](http://www.csiro.marine.au/datacentre/ext_docs/DataQualityControlFlags.Pdf)

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