

Southern Surveyor Voyage 4/2007





SS 2007/04

"Pelagic ecosystem productivity and dynamics off the West coast of Western Australia"

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Leg 1 Fremantle—Fremantle

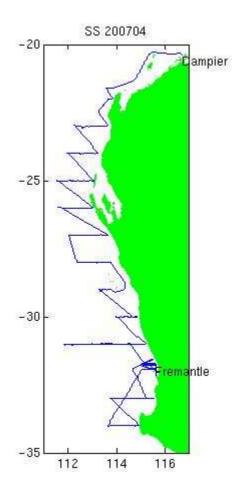
16:00 Thursday, 10 May 2007— 8:00 Wednesday, 15 May 2007

Leg 2 Fremantle –near Perth 16:00 Wednesday, 15 May 2007—08:30 Monday, 21 May 2007

Leg 3 Near Perth—Dampier 08:30 Monday, 21 May 2007—09:10 Wednesday, 6 June 2007 (local times)

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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 repacked 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 June 2007 by running a Java application, written by Lindsay Pender of CMAR, uwyLogger version 6.0. The data time range is 8:24 10-May-2007—22:13 05-June-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 were evaluated and quality controlled.

Processing Comments

Salinity data was filtered to reject spikes of more than .2 and out of range 34.9—36.5 psu.

The depth data was re picked using Sonar Data's echoview software. It is noted that there seems to be a time lag of 20 seconds between the digital data and the re picked depth data.

Final Underway Data

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

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References

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

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Data Summary

	Processing Agency	Processing Status
Navigation	CMAR	Completed
Meteorological	CMAR	Completed
Thermosalinograph	CMAR	Completed
Depth	CMAR	Completed
CTD	CMAR	
Hydrology	CMAR	
ADCP	CMAR	
SeaSoar	CMAR	
Swath Mapper	Geoscience Australia	

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