

**VOYAGE PLAN ss2013\_c01**

**RV Southern Surveyor 24 hour Research Charter  
BOAGS deepwater testing**

(part of the Master of Marine and Antarctic Science degree program- IMAS, University of Tasmania)

**Itinerary**

Depart Hobart 0800hrs  
on Monday 4 March  
returning Hobart 0800hrs  
Tuesday 5 March 2013

**Principal Investigators**

Dr Alan Williams  
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## Scientific Objectives

Testing of newly configured BOAGS sampler in working depths 1000 – 2700 m

## Voyage Objectives

- 1) Deploy the new BOAGS sampler (without full suite of hydrocarbon and acoustic sensors) to evaluate:
  1. the performance of the D&N Francis winch in regard to power and spooling

2. the response of the torque-wound wire to the release of tension during the coring interval
3. the performance of the new KC multicorer and the new BOAGS frame

Repeated, as necessary, and as time permits.

- 2) Deploy the ANU multicorer to understand its operating details, and evaluate its performance
- 3) Consider and on-board sample processing procedures, including laboratory set ups

## Voyage track

Steam from Hobart to SE Tasmania to appropriate testing depths (~2000 – 2700 m) (Figure 1).

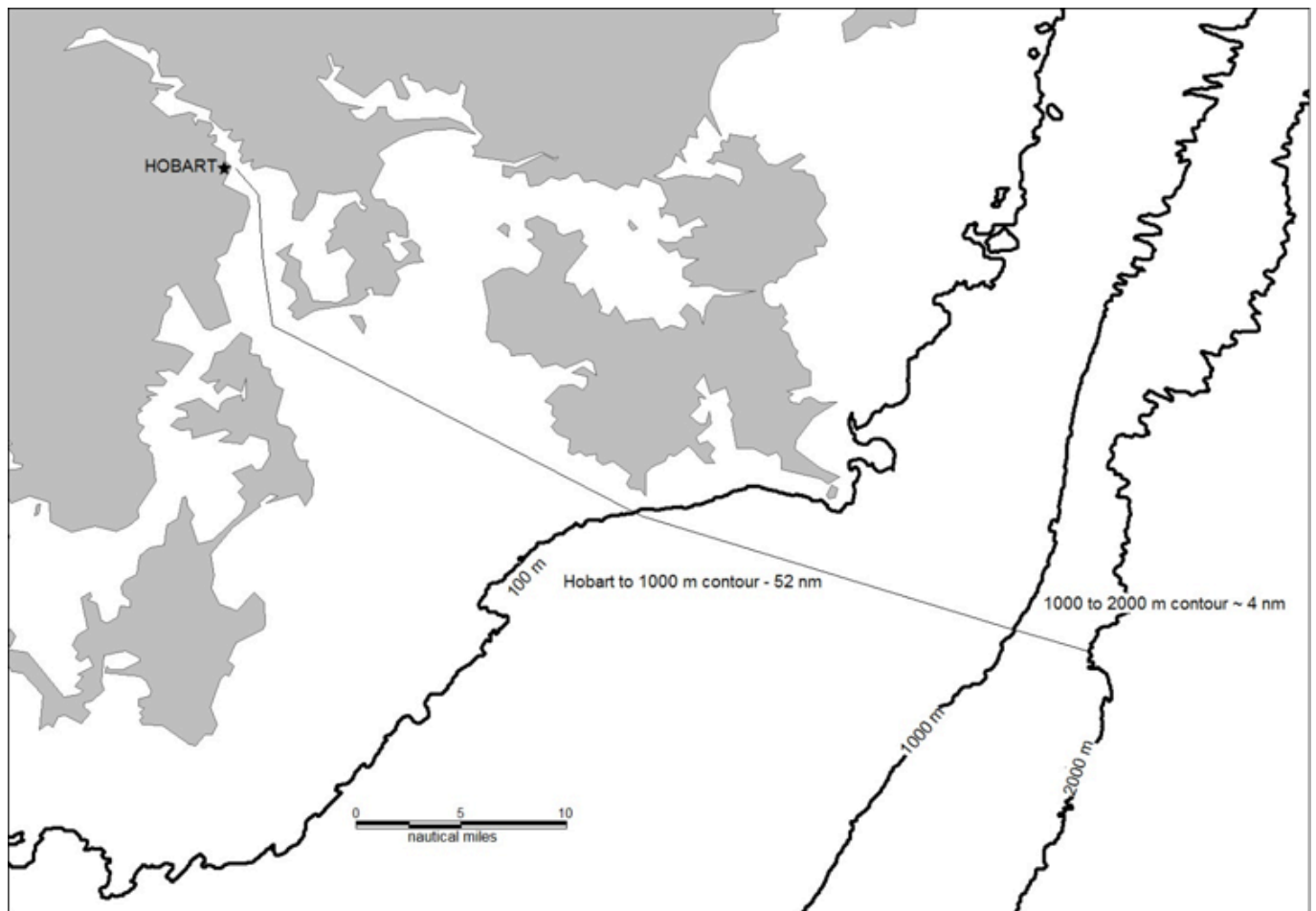


Figure 1 Map showing locations and distances from Hobart to test area in approximately 2000-2500 m depths.

## Time Estimates

Table 1. Estimate of time for transit and surveys during SS2013\_RC01

Activity	Region	Distance	Time	Date
Transit	Hobart – SE Tas (2000 m)	56 nm	6 hrs	4th March
Gear testing	SE Tas 2000 m		12 hrs	4-5th March
Transit	SE Tas - Hobart	56 nm	6 hrs	5th March

## Personnel List

1 Alan Williams	CSIRO	Chief Scientist
2 Matt Sherlock	CSIRO	Electronic Engineer
3 Mark Lewis	CSIRO	Gear operations
4 Mark Green	CSIRO	Gear operations
5 Bruce Barker	CSIRO	Gear operations
6 Emma Crooke	CSIRO	CESRE -Petroleum Res
7 Xiubin Qi	CSIRO	CESRE -Petroleum Res
8 Graham Nash	ANU	Multi-corer
9 Ron Hackney	GA	Observer
10 Christian Blood	CSIRO	SE&T Mechanical Technician
11 Jeff Cordell	CSIRO	MNF Electronics support and Dep. Voyage Manager
12 Don McKenzie	CSIRO	MNF Voyage Manager
13 TBA	CSIRO	MNF Computing support
14 Toni Moate	CSIRO	Observer
15 Bill Butler (VIPAC Technician)	P&O	Observer

## Southern Surveyor Equipment

- ♦ Communications – voice, fax and data
- ♦ Navigation – archiving of underway data including time, ship position, bathymetry
- ♦ Meteorological data – air temperature, humidity
- ♦ Oceanographic data – underway logging of sea surface temperature and salinity
- ♦ DP – dynamic positioning
- ♦ Simrad EK500 sounder (12, 38, 120 kHz)
- ♦ General computing facilities and marine charting software
- ♦ General purpose laboratory
- ♦ Swath deployment (EM300)
- ♦ Fish laboratory/geoscience laboratory/sorting room
- ♦ Stern A frame and 7 tonne knuckleboom crane
- ♦ USBL system

## User Equipment

New BOAGS sampler

ANU multi-corer

D&N Francis electric hydraulic winch with ~3000 m of armoured fibre-optic cable

General Oceanics large diameter block mounted on stern A frame

Special Requests

Loading winch and other equipment the afternoon of Sunday 3 March (transit arrival day)