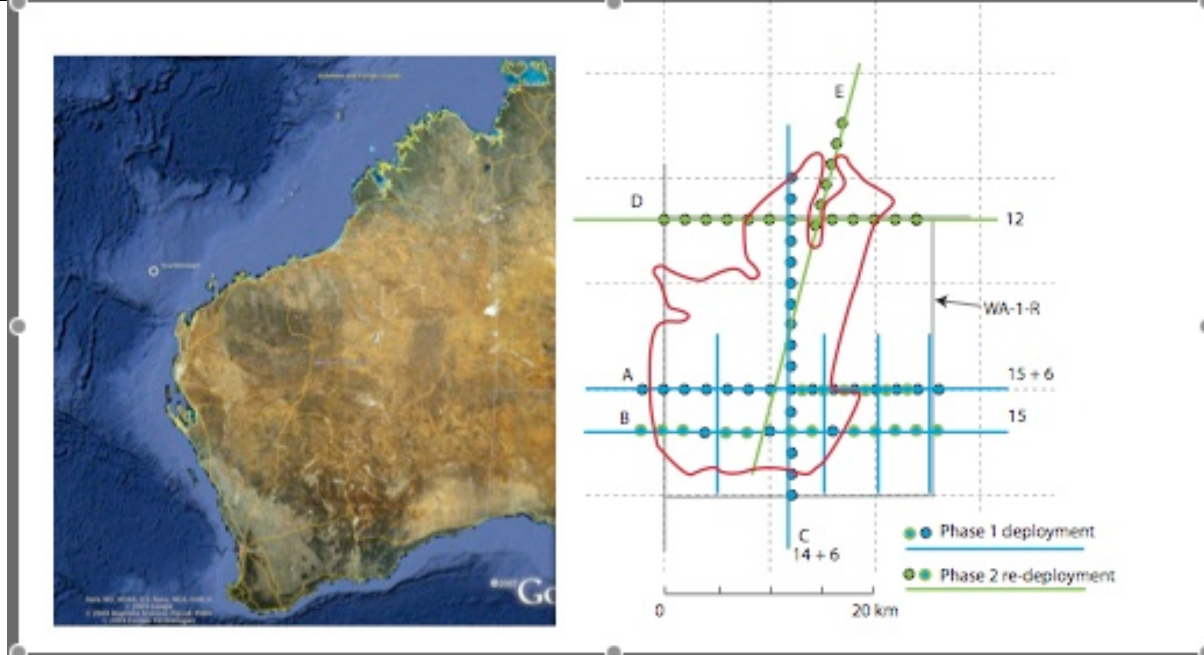


PRE-CRUISE PLANNING & CHECKLIST

General Info

Ship	R/V Roger Revelle
Cruise	RR0904
Dates	20 May – 22 June, 2009
Loading Date(s)	18-20 May. Will have access beginning noon on 17th
Off-loading Date(s)	22 June Expect to be done by end of 22nd.
Chief Scientist	Constable
Start Port	Fremantle, Australia
Intermediate Ports	none
End Port	Fremantle, Australia
# of Scientific Participants	~20



Equipment Requirements

24 HOUR OPERATIONS ?	Normal
Trawl Winch (9/16”M, 0.680EM)	Will make extensive use of 0.680 coaxial deeptow cable, needs high voltage slip rings (see comments below).
CTD Winch (0.322EM)	no
CTD Equipment	no
Hydro Winch (0.25’M)	No
Portable Winches	We will have two antenna winches on deck, need port 01 space
Navigation	Furuno GP90D (standard)
Dynamic Positioning	Helpful for the deeptow operations
Multibeam Sonar	Normal – secure during EM runs, but please run on transits
ADCP	possibly
Doppler Sonar	probably
PDR (3.5kHz, 12kHz)	Normal – want to run this to look for gas seeps, shouldn’t interfere. SEG-Y plus binary data format please. 12kHz: very important, see notes below
Magnetometer	Can deploy this on transits if space for winch is found
Gravity	Can record on transits
IMET	yes
XBT	Yes – needed for Constable’s work 1 per day OK

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Seismics (Air/Water Guns, etc.)	none
Air Compressor Vans	none
Coring (Gravity, Piston, Multi,etc.)	none
Explosives	none
Containers/Vans	No (see notes below regarding CLIVAR vans)
Electrical, Special Requirements	480 VAC 3-phase power in hydro lab
Foreign Shipments	Will have 4 containers of shipment to Fremantle, 3 return
Isotopes	no
Hazmat (chemicals, lithium batteries, etc.)	Will have 40 4-cell DD packs of lithium batteries (10.3g/cell)
Hazmat response issues	Will have lithex aboard
Laser	No
Freezers/Reefers	no
SIO Technicians	STS restech and computer tech on board
Data Processing	normal
Communications	normal
Clearances	Australia – clearances were dropped by US embassy, but being fixed now
INTERNET Rqmts	Normal email

Additional Notes

1. Will use lithium batteries, plan is for agent to dispose of these in Australia.
2. 12kHz transducer is very important – previous cruise had problems – STS plans to look at this to repair prior to cruise. STS will also have xducer on pipe string as backup, and pipe will have been newly refurbished prior to this trip.
3. Dana Greeley asks to keep pCO₂ system set up in hydro lab. This is OK. It may not be operated during this cruise, however. (ISSUE: high voltage gear will be set up in this lab, and any plumbing problems & resulting flooding would be catastrophic).
4. Might be possible to keep STS van on forward spot during cruise. The port side 01 area will be needed, so can't keep a van there.
5. Slip rings – science will bring a set of high voltage slip rings, and requests a ship's set aboard and somebody there to install. ET from preceding I5 cruise will insure a set is installed an OK. Issue: STS slip rings serial number is not specifically listed as high voltage BUT they have been certified OK.
6. Need to verify whether stevedores are required for loading/offloading work on pier.
7. WOOD: Australia has strict rule on allowing wood, such as pallets, into country. Please insure ALL your wood is certified AUS compliant, even including wood that's in your shipping containers. Plastic pallets are recommended.
8. Helpful for clearance request to show that we are collaborating with Australian requests for data
9. Science intends to hold open house for Australian colleagues etc. Best day would be when we're not fueling – let's say 9AM til noon on the day we sail (20 May). Tours should be led by science party, although ship's crew would support. SOMTS will advise on invitations regarding diplomatic contacts to invite. Display CLIVAR data, plus whatever shipboard material is available
10. If science is finished a day early, last day can be provided to conduct calibrations for shipboard gear (multibeam or vertical reference TBD by STS).
11. Deck chess: 120 anchors (200kg concrete) on the back deck.
12. BHP requests we get concurrence from adjacent lease block owners before dropping any anchors in them – Dr Constable will follow this up.
13. For deployments: use hiab on port side. Recoveries will be done on stbd using Alaska crane.
14. STS is working on plan so that recovery line doesn't jump off drum and break crane, which has happened in the past.
15. Couple of antennas will be mounted on main mast. (900MHz radio modems). Also will mount GPS antenna on squirt boom.

PRE-CRUISE PLANNING & CHECKLIST

16. Real time inverted LBL nav (Barracuda system) is very important to make work – uses towed vanes – this is a science to-do item.
17. Computers: scientists, please insure that your computers have active & recently updated anti-virus software.
18. Network: we us a strict firewall that block internet ports. If you need access to specific ports, please let STS computer resources know so they can open the appropriate port for you.