

PRE-CRUISE PLANNING & CHECKLIST

General Info

Ship	ROGER REVELLE
Cruise	Clivar I 5 RR0903
Dates	20 MAR – 15 MAY
Loading Date(s)	16 – 20 MAR (Science show up AM 16 th & may move aboard). Will try to load vans on 16 th , but that's contingent on port issues.
Off-loading Date(s)	16-17 MAY (All gear off by noon on 17 th)
Chief Scientist	JIM SWIFT
Start Port	CAPE TOWN
Intermediate Ports	N/A
End Port	FREMANTLE
# of Scientific Participants	Full Science party - includes SIO CT- RT - 8 ODF (34 total)

Equipment Requirements

24 HOUR OPERATIONS ?	Normal CLIVAR Procedures, round the clock, no hand-held optics. Will be trace metals.
Trawl Winch (9/16" M, 0.680EM)	No.
CTD Winch (0.322EM)	Yes CTD Plus Backup .
CTD Equipment	Normal CLIVAR
Hydro Winch (0.25'M)	Set up as CTD
Portable Winches	Chris Measures will send his trace metals winch – SIO SeaMac will be on board as backup.
Navigation	GP 90 D
Dynamic Positioning	Available new system (Kongsberg KPOS DP-11)
Multibeam Sonar	Normal – operate underway as normal routine
ADCP	150NB w/ UHDAS (Jules Hummon will visit ship in Capetown)
Doppler Sonar	Operate as normal underway routine
PDR (3.5kHz, 12kHz)	Normal operation not to interfere
Magnetometer	OK to deploy between sites or transits, not to interfere, depends on deck layout, transit time between stations, etc.
Gravity	Available – will be on and operating.
IMET	YES -- pCO2 Dana Greeley (AOML system) on board will need T,S data as has been done before on board. Will need data from underway thermosalinograph
XBT	Normal – used for SSPs for multibeam when CTD data not available
Seismics (Air/Water Guns, Hydrophone Streamers, etc.)	NO
Air Compressor Vans	NO
Coring (Gravity, Piston, Multi, etc.)	NO
Containers/Vans	5 vans total, 3 of them on fantail (see Langner's drawing): Chris Measures van (UH) CO2 van (PMEL Seattle) – active lab van CFC van (PMEL Seattle) – active lab van WHOI storage/shipping van (01 port) STS-ODF 20-foot van (currently on board) (02 bow) <i>Ship has two sets of deck plates for van corner fittings – need 3^d set made, can be welded together on ship if mat'l sent out.</i>
Electrical, Special Requirements	none
Foreign Shipments	Yes to Cape Town – from Fremantle
Isotopes	
Hazmat (chemicals, lithium batteries, etc.)	Gas chromatograph. Lithium batteries. All scientists please send chemical inventory forms and MSDS to restech Dave Langner.

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Hazmat response issues	
Laser	No.
Freezers/Reefers	Yes. Charlie needs, and will ship back from Fremantle. Freezers @ 0 degrees F for 9 each 29"x15"x16" containers. Also need walk-in refer. John needs to freeze every day some blue ice packs.
SIO Technicians	Restech, computer tech, plus 8 ODF techs
Data Processing	Normal
Communications	Normal
Clearances	South Africa, Australia
INTERNET Rqmts	HiSeasNet web and email, connection contingent on heading, ship location, etc.

Additional Notes

1. Shipping: please see web site for updated info on ship's agents. Please inform restech, ship and SIO marine facility regarding shipments to/from ship so we can anticipate them.
2. Gas Bottles – CFC/Carbon Group How Many? What type?
3. Airborne Vapors – Captain
4. STS has EH&S specialist Gary Lain <dlain@ucsd.edu> who can advise on shipping hazmat issues
5. Day available at end of cruise for multibeam / vertical reference cal if needed (STS will consider - May also be a day available at end of Constable cruise.). If STS does not need day at sea, may come in a day early to finish processing pierside.
6. Testing of CTD wire has been underway, and will continue during PA-CT transit.
7. Ship has two sets of deck plates for van corer fittings – need 3rd set made.
8. Please send chemical inventory forms and MSDS to restech Dave Langner.
9. UW will send 11 crates of floats (21 total floats: 19 to be deployed on CLIVAR, 2 on xit to Oman) Crates need space in main lab (Swift says OK). Crates will be ISPM-15 compliant and should be OK into Australia.
10. Scientists: please send your desires for van hookups to Dave Langner (cc to Swift and REVELLE master).
11. Gasses: what are you bringing, and how much? Send info to same list as #10.
12. 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.
13. Can gear be unloaded from vans on Capetown pier by scientists, or will local rules require longshoremen gangs, or other restrictions? SIO will ask for guidance from our agent, and pass that information to scientists. Same is true for loading containers in Australia.
14. Swift request: can ODF and Chris Measures vans be removed after the cruise and stored shoreside during Constable cruise, then have those containers loaded back aboard for transit to Oman? ODF van will be stored off-ship in Oman during Landry, and loaded back aboard for I7 CLIVAR.
15. Chris Measure van will be used during Landry cruise, and should stay aboard for Landry (comes off for Constable).
16. WHOI van will come off in Fremantle and shipped back to US from Fremantle.
17. John's van will come off in Fremantle and shipped back to US from Fremantle
18. Dana Greeley pCO2 van will come off in Fremantle and shipped back to US from Fremantle. Note that MOORING recovered on earlier transit needs to be loaded into one of the NOAA vans returning to Seattle. The mooring gear should be in forward hold, and science will load into their containers. NOAA needs to provide all shipping documentation and paperwork.

19. Each group: send list of any hazmat or gasses you want to leave aboard between I5 and I7 to restech, Swift and MarFac so we can evaluate and try to accommodate.

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20. Miama SWAB tests will be performed in PA next month. Prior to I5 STS will have results, and can provide that info to science party.
21. Computers: scientists, please insure that your computers have active & recently updated anti-virus software.
22. 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.