

## PRE-CRUISE PLANNING & CHECKLIST

### General Info

Ship	MELVILLE
Cruise	
Dates	20 – 26 MAY
Loading Date(s)	19- 20 MAY
Off-loading Date(s)	26 – 27 MAY
Chief Scientist	CRAIG LEE
Start Port	CHI LUNG
Intermediate Ports	
End Port	CHI LUNG
# of Scientific Participants	10 + 2 SIO TECHS Possible USCG Techs

### Equipment Requirements

<b>24 HOUR OPERATIONS ?</b>	<b>Yes. If sufficient pers in Science party Utilize USCG techs is ready</b>
Trawl Winch (9/16”M, 0.680EM)	No.
CTD Winch (0.322EM)	CTD (operated off hydro boom) Probably full depth ~2,000 meters max
CTD Equipment	Dual T-C, SBE43 DO, Wetlabs fluorometer (chl & CDOM), 25-cm 660nm transmissometer, rosette and 10 liter bottles. SIO 12-place, 10-liter rosette. If you want to strap-on instruments, you need to bring cables. We use upgraded SeaBird cables w/ wet-pluggable connectors. Woody will send connector spec. Wants altimeter.
Hydro Winch (0.25’M)	Not required, but will be available.
Portable Winches	
Navigation	GP 90 D, GPS attitude (ASHTECH 3DF or equiv) for ADCP
Dynamic Positioning	K-POS 11
Multibeam Sonar	YES
ADCP	75 KHz OS, 150 KHz OS (running UHDAS),
Doppler Sonar	NA
PDR (3.5kHz, 12kHz)	Probably not.
Magnetometer	No
Gravity	Will be recorded as normal.
IMET	Yes- would like to have freshly calibrated met suite, inc SW, LW and RH.
XBT	One per day as standard for multibeam ops to supplement temp profiles from fish (to 200 meters), or CTD data.
Seismics (Air/Water Guns, Hydrophone Streamers, etc.)	NO
Air Compressor Vans	NO
Coring (Gravity, Piston, Multi, etc.)	NO
Explosives	NO
Containers/Vans	None
Electrical, Special Requirements	None.
Foreign Shipments	Chi Lung
Isotopes	NO
Hazmat (chemicals, lithium batteries, etc.)	NO. gliders, lithium batteries will be in inside.
Hazmat response issues	Science will supply LithEx
Laser	NO
Freezers/Reefers	Possibly for nutrients
SIO Technicians	One computer resources (CR) tech (Kris Weeks), one ResTech (Keith Shadle).
Data Processing	No

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Communications	HiSeasNet, uptime depends on ship heading – SIO will limit the total number of workstations that have internet access to a few computers – public machines will be available with full access. Backups: Fleet77 and Fleet Broadband systems.
Clearances	TAIWAN, JAPAN
INTERNET Rqmts	Biggest impact will be transferring images from shore to ship.

**Additional Notes**

1. Wireless issues?
2. Craig will bring USB drives that SIO can dump data to at the end of the cruise. SIO will make DVD of cruise data as well.
- 3.