

## PRE-CRUISE PLANNING & CHECKLIST

### General Info

Ship	MELVILLE
Cruise	
Dates	9 JAN – 1 FEB
Loading Date(s)	7 – 9 JAN
Off-loading Date(s)	1 – 3 FEB
Chief Scientist	Arnold Gordon
Start Port	Manila
Intermediate Ports	DUMAGUETE 22 JAN PERS ONLY
End Port	Manila
# of Scientific Participants	20 + SIO techs + RP OBS

### Equipment Requirements

<b>24 HOUR OPERATIONS ?</b>	<b>No extra STS techs CTD'S Science provide deck supervisor</b>
Trawl Winch (9/16”M, 0.680EM)	No
CTD Winch (0.322EM)	Yes
CTD Equipment	12 place 10 l rosette system, Sci will provide Spare CTD - ADCP Clamps
Hydro Winch (0.25’M)	No
Portable Winches	No
Navigation	Furuno GP90D
Dynamic Positioning	Routine
Multibeam Sonar	Yes
ADCP	Yes – 150 kHz NB & 75 kHz OS -UH DAS (?) – C Mattson to check/verify/report
Doppler Sonar	n/a
PDR (3.5kHz, 12kHz)	3.5kHz non-op now. 12 kHz OK
Magnetometer	No
Gravity	Routine
IMET	Routine – add biooptic sensors to data stream. Discussed with R. Palomares. OK; a la last cruise
XBT	Routine; may be superfluous, vs, CTDs
Seismics (Air/Water Guns, Hydrophone Streamers, etc.)	No
Air Compressor Vans	No
Coring (Gravity, Piston, Multi, etc.)	No
Explosives	No
Containers/Vans	None loaded aboard
Electrical, Special Requirements	None
Foreign Shipments	Shipping responsibilities discussed; SIO info/procedures to be forwarded by T. Althouse
Isotopes	No
Hazmat (chemicals, lithium batteries, etc.)	List of items, quantities to be forwarded to SIO. Incl. end-of-cruise disposal/removal plans. Ref. UNOLS RVSS standards for hazmat use/handling. Provide MSDS.
Hazmat response issues	No
Laser	No
Freezers/Reefers	No
SIO Technicians	CT, RT
Data Processing	Routine
Communications	Routine – HliSeasNet primary (“free”); F77 backup (pay for service). Weekly report appreciated; a la A. Gordon last cruise.

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	Deck/lab video cameras – at Ch Sci. discretion.
Clearances	Philippines; being worked. SIO (schedulers/Marfac) to check further and stay in contact w. results & best approaches for dealing with local clearances vs. overall central govt. clearance. Onboard Ph Scientists likely to be helpful; Huber to contact.

### **Additional Notes**

1. Drifters – yes. Mooring and/or GLIDER DEPLOYMENTS if necessitated by outcomes on prior Flament cruise.
2. Possible recoveries of Apex floats (GPS location) – may need small boat ops.
3. Winkler titration system and chems. Remain aboard from Flament cruise; remove at end of this one.
4. Fuel time/requirements TBD; Marfac to settle and provide info.
5. Ship berth likely to be same as prior Gordon cruise, but TBD. Marfac will provide latest info when available.