

PRE-CRUISE PLANNING & CHECKLIST

General Info

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| Meeting date | 02 Feb 2010 (Tue) |
| Ship | R/V <i>Roger Revelle</i> |
| Cruise Name | RR1010 + (cruise IDs will change depending on actual/variable ops) |
| Load Start Date | 24 Jul 2010 (Sat) |
| Load End Date | 24 Jul 2010 (Sat) |
| Cruise Start Date | 24 Jul 2010 (Sat) |
| Cruise End Date | 23 Oct 2010 (Sat) |
| Off-load Start Date | 23 Oct 2010 (Sat) |
| Off-load End Date | 23 Oct 2010 (Sat) |
| Chief Scientist | Craig Lee |
| Start Port | Kao-Hsiung, Taiwan /TBD |
| Intermediate Ports | TBD |
| End Port | Kao-Hsiung, Taiwan |
| # of Scientific Participants | 12 + SIO techs (1 CT + 1 MT) |

Equipment Requirements

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| 24 HOUR OPERATIONS ? | Yes |
| Trawl Winch (9/16”M, 0.680EM) | Available |
| CTD Winch (0.322EM) | Yes |
| CTD Equipment | Available, Rosette 24-10L, fluorometer, trans, o2, ladcp |
| Hydro Winch (0.25’M) | Available, Testing releases |
| Portable Winches | TSE, uCTD, Available |
| Navigation | GP90 D |
| Dynamic Positioning | Available |
| Multibeam Sonar | EM 122 Included, pending clearances |
| ADCP | RDI 150kHz, Included, pending clearances. Possible 75Khz TBA |
| Doppler Sonar | HDSS 50 kHz and 140 kHz, Included |
| PDR (3.5kHz, 12kHz) | Included, pending clearances |
| Magnetometer | No |
| Gravity | Included, pending clearances |
| IMET | Fresh sensors installed, nmea/gps feeds, Sea Surface, Included |
| XBT | For multibeam, Included |
| Seismics (Air/Water Guns, Hydrophone Streamers, etc.) | No |
| Air Compressor Vans | No |
| Coring (Gravity, Piston, Multi, etc.) | No |
| Explosives | No |
| Containers/Vans | TBD, pending discussion |
| Electrical, Special Requirements | No |
| Foreign Shipments | Before & after |
| Isotopes | No |
| Hazmat (chemicals, lithium batteries.) Battery Specialties ?? | Li-'s, within equipment |

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|-------------------------------|---|
| Hazmat response issues | MSDS |
| Laser | No |
| Freezers/Reefers | TBD |
| SIO Technicians | 1 CT, 1 MT |
| Data Processing | Mbsystem available, No other special processing |
| Communications | Only Temp local email accts (8mb limit per email), IM available for all with comps – via Wifi |
| Clearances | Japan, Taiwan, Philippines |
| Internet Requirements | Public terminals, PI, have full access to HiSeasNet |

Notes:

Impact of Typhoons on the Western Pacific Ocean

The request covers 2010 shiptime needs for a block of 92 days that will include ITOP cold wake sampling, ITOP ASIS/AESI mooring service and IWISE pilot activities. Timing of individual components will be fluid, as the time block will be used to conduct opportunistic sampling of typhoon cold wakes, with other activities woven into the periods between target typhoon events. Request a global class vessel due to extensive mooring operations and the need to conduct science in less than ideal conditions through the typhoon season.

Load in Kao-hsiung - all gear for all 92 Lee days must be loaded on board (ie, all gear for Alford, Pinkell, Graber, Lien & Howe).

Except for the first 5 days of IWISE pilot, which must be executed as a single block, the shared vessel is subject to immediate recall for rapid response to passing typhoons. Upon notification the current science part would cease operations and steam back to port, in ordered to minimize hand-off delays with the cold wake team.

Scrape HDSS transducer windows prior to start of Cold Wake (Lee) program
Also clean the rest of the hull of biofouling prior to start of Cold Wake program

Two 21 day cruises for Cold wake program
Equipment to be brought onboard by scientists:

Underway CTD
1 Slocum Glider
4-8 Seagliders
Iridium phone system

CTD ops: Smaller CTD available along with Rosette

Work boat requested
Two air tuggers requested

Electrical connection will be needed for portable winches

Taiwanese holidays to be wary of:
Sept 22, Oct 10, Oct 22, Nov 1