

HLY-0501

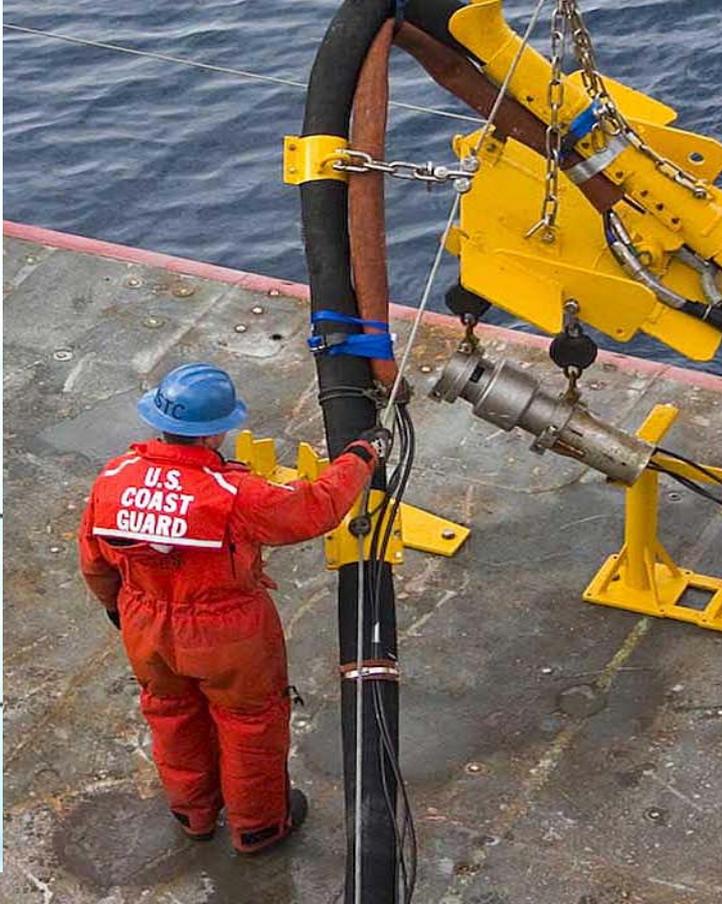


470m core
material
HLY-0501
HLY-0503

HLY-0502



HLY-0503



2005 Program Debriefs

Darby (HLY-0501 and HLY-0503) and Coakley (HLY-0503) debriefed separately by telephone.

- Very positive comments about ship and crew's performance
- Margo to compile debrief notes provided by participants
- Draft recommendations tomorrow
- Approved debriefs posted to AICC (UNOLS) website ~01/01/06

Gradinger (HLY-0502) provided written responses to debrief

- Suggested that debrief take place today after meeting breaks

2004 Recommendations

The Process:

- Debrief PI's from 2004 field programs
- Generate list of recommendations from debriefs
- AICC members prioritize list - 36 FINAL Recommendations
- Ranked list sent to CO of HEALY, Tom Wojahn, Simon Stephenson in June 2005.
- Dan Oliver responds to recommendations

Simon's Charge to AICC: Track Improvements

- Can we “quantify?”

2004 Recommendations

1) Pre-Cruise Meetings

Parties: PI's/HEALY

All funded PI's should be required to hold meetings prior to deployment on the HEALY with the ship's crew to discuss scientific procedures, equipment use, and logistics for cargo transfer, chemical use, etc.

2004 Recommendations

2) Iridium-Based Communications Party: HEALY

Iridium connectivity should become the standard for ship-shore communications.

3) SeaSpace Terascan Operation/Reliability: HEALY

A contractor for SeaSpace should make sure that the Terascan system is checked out prior to each field season so that the system will be fully operational and reliable under cruise conditions.

2004 Recommendations

4) Communication with Native Communities Party: PI's

For all future field programs, PI's need to engage the native community early and often.

2004 Recommendations

5) On-Deck Radio

Party: HEALY

When gear is over the side, protocol should insure there is someone on deck with a radio.

6) Selecting Officers for Icebreaker Tours Headquarters

Party: USCG

Bear in mind the central role that command plays in science program success when the time comes for officers to rotate.

7) Nightly Meetings

Parties: PI's/HEALY

Nightly meetings are imperative to program success!

2004 Recommendations

8) UNIX Support

Party: HEALY

The computer support system needs to bolster its UNIX capability significantly.

Dale Chayes from LDEO was an extremely valuable resource to the SBI PIs concerning ship instrumentation and systems.

USCG also now has a full time person for science data network computer support, who was essential to solve daily computer issues and periodic system crashes, as occurred during the spring SBI cruise. The team support of the LDEO and USCG personnel was a real improvement to general science and computer network support.

2004 Recommendations

9) Data Backups

Party: HEALY

The shipboard backup system needs work without any loss of data.

10) MST Responsibilities, Training, Recognition: HEALY/USCG HQ

Specific MSTs should be assigned responsibility for specific instruments. The USCG should consider how to provide MSTs ratings, schools, rotations, retention, etc. The MST-UNOLS exchange program should be continued. MSTs should get recognition from the USCG for the work that they do to support science.

2004 Recommendations

11) Bathymetry and Underway Data Displays Party: HEALY

Add a bathymetry repeater screen for the CTD operator, plus navigation and other data displays in the main lab, computer lab, etc.

12) Mobilization in Ports other than Seattle Parties: PI's/HEALY

Details of the on-load, when not in Seattle, should be discussed carefully and well in advance of the actual mobilization.

2004 Recommendations

13) On-Deck Communications

Party: HEALY

Improve communications to places like vans on the fantail so that scientists are aware of helicopter operations that might affect their work and safety.

14) Ship Heading

Party: HEALY

There were three instruments that measured the ship heading and each gave a different answer. Although these errors also occur on UNOLS ships, it is important to try and make the sensors consistent and correct. At the least, there should be a process to determine which instrument is giving the most accurate results.

2004 Recommendations

15) Multibeam Performance and Upgrade: AICC/HEALY

Determine which hull-mounted systems operate on other icebreakers and how they perform in ice before making the final decision about replacing the SB2112.

16) Mid-Rats

Party: HEALY

It would be nice to have more food and more selection for mid-rats.

17) Search and Rescue Protocol

Party: HEALY

In the event of future S-A-R events, consider setting a time limit for “standby” so that science personnel can make hotel arrangements if necessary and avoid them if not.

2004 Recommendations

18) HEALY Point of Contact

Party: HEALY

Designate one person to be the contact for overall operations questions.

19) HEALY Crew Internet Use

Party: HEALY

During the two hours per day that the scientists are allowed access to the Internet, if the CG folks can limit their use (which they have available most of the time) then it frees bandwidth for the science party during their limited access time.

Will do a better job at that. Not a lot of people in the crew have access to SDN and simply take it for granted that when INMARSAT is hooked up to SDN then the crew does not have access. Will make it a point to remind those in the crew who do have readily available SDN access to not encroach upon the science time for INMARSAT connectivity.

2004 Recommendations

20) CTD Cart

Party: HEALY

Consider building or purchasing a cart/track system to move the CTD rosette in and out of starboard staging bay.

21) XCTD Launch Tube

Party: HEALY

Presently the aft XCTD launch tube is not at a steep enough angle, so the XCTD cannot drop. It should be modified to correct this problem. Additionally, it would be useful to have a spare hand-held launcher available and working for every trip.

2004 Recommendations

22) Traffic Patterns on 02 Deck

Party: HEALY

Consider modifying traffic patterns on the 02 deck near the science conference room so that day sleepers on that deck can sleep. Soundproofing could also be implemented in the affected staterooms.

23) Medical Forms

Party: PI's

Some contractors who support scientists expressed concern about patient confidentiality and were unwilling to fill out the medical forms.

2004 Recommendations

24) Internet Tracking for Shipments

Party: HEALY

The new HEALY Internet system for tracking cargo and shipments is valuable and should be continued. It could use a few improvements such as daily updates and adding information about whether shipments had been transferred aboard ship.

25) Shore-Based Marine Radio

Party: HEALY

Consider making it routine to have the oncoming science party carry a marine radio so that they can contact the ship in case HEALY is called away from port, for example, for Search and Rescue.

2004 Recommendations

26) Winches

Party: HEALY

Confirm that HEALY's winches are rated for the loads required for a field program prior to its departure. It is desirable to have the winches operate faster.

27) Officers

Party: USCG HQ

Could USCG consider making UNOLS experience part of icebreaker officers' training? Selecting officers for deployment on the icebreakers partly on the basis of interest in and suitability for science support would help the science programs.

2004 Recommendations

28) Helicopters

Party: HEALY

It would be good to always have two working helicopters on HEALY.

29) Habitability

Party: HEALY

There should be adequate towel racks, lights, and storage space for full 3-person occupancy in the staterooms.

2004 Recommendations

30) Communications to Shore

Parties: HEALY/NSF

Provide the science party with connectivity to shore for more than 2 hours per day.

NSF agrees that it will be willing to pay for more time if it is needed, so it is recommended that this information be provided to future PI's prior to the cruise.

USCG says that the cruise planning form does specifically request "communications requirements," but it was not well established that the two-hour connections could be increased, even while at sea, with justification.

2004 Recommendations

31) Hydraulic System

Party: HEALY

Consider upgrading the hydraulic system.

32) Housekeeping - Linens

Parties: HEALY/PI's

*Implement a standard method for linen washing to streamline the offload of personnel considering the early departure time often required.
Encourage people to bring their own sheets – this would reduce the problems with getting linens clean prior to offload.*

2004 Recommendations

33) Plan of the Day

Party: HEALY

An approach for implementing program changes in response to real-time events/findings could be better defined.

34) Sewage Problems

Party: HEALY

Daily shut-downs of the sewage/toilet systems should be avoided whenever possible.

2004 Recommendations

35) Cleaning Supplies

Parties: HEALY/PI's

Make sure that stateroom, head, and lab cleaning supplies are kept in good order, and that scientists know where the appropriate cleaning items are located for each space.

36) HAZMAT

Parties: AICC/HEALY

Determine whether appropriate certifications and procedures are in place for transporting HAZMATs to HEALY. For example, the delivery truck/driver should have the appropriate certifications to get material on base.