

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
ADCP	2	Define heading inputs into ADCPs. Wire direct synchro inputs through a local selector switch. Direct serial input of heading from the Ashtech receiver.	1	open	4/26/02	Forcucci	Purpose of this item would be to allow direct input of the best available heading input to the ADCPs with the ability to select the input. Need to determine the present configuration to determine how much needs to be done. Bill Martin will contact RDI rep to get test results from installation of 75 khz system and testing of 150 system. Ensure inputs are known and acceptable to SBI scientists. Longer term fix is to put selector switch in place. MLC will complete installation of Ashtech output to the ADCP on 4/17	0421.doc	4/21/00
ADCP	4	Define the position inputs to both ADCPs.	1	open	4/26/02	Forcucci	Trimble Centurian P-Code is recently installed. Determine whether or not crypto codes are installed and enabled. Serial distribution to ADCPs and other systems needs to be completed.	0421.doc	4/21/00
ADCP	5	Define attitude inputs (pitch, roll) to ADCPs.	1	open	4/26/02	Forcucci	Serial data from Ashtech 3dtps.	0421.doc	4/21/00
ADCP	7	150KHz ADCP - A sound speed sensor should be installed in the transducer well. This would allow calibration of the data when the BB150 is in an unknown antifreeze mixture with unknown sound properties. Source - Phase IV, leg 1 ADCP report by J. Hummon dtd 6/1/2000	2	open	12/31/02	Flagg	Sensor installed, data needs to be logged and evaluated.	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
ADCP	9	Identify and remove the vertically-independent high-correlation signal which sporadically corrupts the BB150 data.	2	open	12/31/02	Forcucci	RDI investigating, ensure SBI PI's aware of problem	Hummon healy_adc p.doc	7/18/00
ADCP	10	Ambiguity wraps occur at speeds as low as 11kts using the setting of WM1, WB1, which RDI sometimes recommends. Therefore a setting of WB0 and a higher ambiguity setting (such as WV650) should be employed for routine use.	2	open	12/31/02	Forcucci	RDI investigating, ensure SBI PI's aware of problem	Hummon healy_adc p.doc	7/18/00
ADCP	11	The prevalence of the unidentified hash in the signal means that a vertical velocity threshold must be used in addition to the error velocity threshold to screen data before it is averaged. The vertical velocity threshold is only available in RDI's newer acquisition software, VmDas. We hope VmDas is stable enough to be reliable: it has many advantages over Transect. VmDas can use reference layer averaging, has vertical velocity editing criterion, allows 2 serial inputs, and is more intuitive.	2	open	12/31/02	Forcucci	RDI investigating, ensure SBI PI's aware of problem	Hummon healy_adc p.doc	7/18/00
ADCP	14	If not already in place, acoustic damping material should be used to line the transducer well, to reduce ringing. Until then, blanking intervals from 6 to 13 m should be tested to find the minimum necessary to eliminate ringing in the top bin.	2	open	12/31/02	Forcucci	Damping installed, System performance to be tested with new material and optimized for new conditions.	Hummon healy_adc p.doc	7/18/00
coring	23	A portable overboard-draining sink needs to be installed in the Aft Science Staging Area or wherever the initial core splitting and curation work will be done	2	open	4/26/02	HEALY MST		00Final_Sci_Test_rept.doc	5/1/00
coring	18	an historical real-time record of wire tension during the entire coring procedure	2	open	12/31/02	HEALY MST	performance assessment of several options required.	00Final_Sci_Test_rept.doc	5/1/00
coring	30	An additional padeye needs to be welded to the A-frame approximately four feet aft of the main trawl block padeye - (i.e. as far as possible without interfering with bracing) so that the trigger core block and wire will hang directly over the end of the four foot long trigger arm during rigging.	3	open	12/31/02	HEALY MST	Evaluate coring operations during summer 2002 to determine if modifications are necessary	00Final_Sci_Test_rept.doc	5/1/00
coring	31	There is presently a bad downward and forward wire angle from the trawl sheave in the Starboard Staging Area to the hanging trawl sheave in the starboard A-frame. This allows the A-frame sheave to spin and pivot annoyingly through 360 degrees twisting the wire. A possible fix would be to limit the angular travel of the swivel holding the A-frame sheave to prevent more than a 45 degree turn fore or aft. Alternatively, the entire trawl block swivel could possibly be eliminated raising the block and limiting any unnecessary pivoting.	3	open	12/31/02	HEALY MST	Evaluate coring operations during summer 2002 to determine if modifications are necessary	00Final_Sci_Test_rept.doc	5/1/00
coring	35	After core recovery, there is no good place to hang the piston core extruder under the starboard A-frame area for attachment to the core head.	3	open	12/31/02	HEALY MST	Evaluate coring operations during summer 2002 to determine if modifications are necessary	00Final_Sci_Test_rept.doc	5/1/00
coring	21	it is helpful to have a large readout of Wire Out and Tension in the Starboard Staging Area visible from under the starboard A-frame even at night	3	open	3/31/03	Alstom/HEALY/MLC	Under development, needs to be prioritized	00Final_Sci_Test_rept.doc	5/1/00
coring	33	An additional, small hinged grating should be added to the hero platform in that area to cover this opening and prevent possible injury		open				00Final_Sci_Test_rept.doc	5/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
cruise plan	196	A policy needs to be established covering procurement and use of expendable supplies, those associated with SeaBeam operations and other operations on board	2	open	9/30/02	AICC	cruise planning	seabeamSt	5/1/01
CTD	40	Equipment log books must be kept	1	open	4/26/02	HEALY MST		00Final_Sci_Test_rept.doc	5/1/00
CTD	54	Protocol and procedures for logging CTD data need to be established and documented. Data should be stored in the native format by the CTD computer to the networked server.	2	open	12/31/02	HEALY MST	Documentation should be completed. Current procedure may be fine. May need to map the network drive and test automatic logging.	SCS Data Acquisition System.doc	5/1/01
CTD	43	winch wires that come up to the CTD console should be wired into individual junction boxes rather than to CTD deck box connectors	2	open	3/31/03	HEALY MST	Need to draft CSMP	00Final_Sci_Test_rept.doc	5/1/00
CTD	44	The CTD console is not located in a good area	2	open	6/30/03	HEALY	CSMP has been submitted to move this console. On hold until all space reconfiguration CSMP have been prioritized. Decisions to be made in time to include in 04 Drydock planning package.	00Final_Sci_Test_rept.doc	5/1/00
deck ops	65	Electrical capability for mooring winches should be available on the stern. A typical science mooring winch requires 440 VAC, 60 amp, 3 phase service	2	open	12/31/02	HEALY	need to verify	00Final_Sci_Test_rept.doc	5/1/00
deck ops	85	Sirens to indicate remote control of both A-Frames should be arranged to sound once, when control is transferred, and then automatically be silenced. A visual alarm could be provided by a small rotating beacon. Personnel protection during actual movement of the A-frames should be audibly alarmed by sirens at a reduced decibel level than currently exists. Source – M.Tilyou, ELC Write-Up dtd 23 June 2000.	1	open	3/31/03	HEALY MST	Draft CSMP	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops	57	Nylon plugs continue to seize in threaded holes	2	open	3/31/03	HEALY MST	Draft CSMP to do test block of Stainless inserts and evaluate performance during summer 03.	00Final_Sci_Test_rept.doc	5/1/00
deck ops	63	Wire feed-throughs should be installed in main lab and wet labs	2	open	3/31/03	HEALY MST	CSMP has been submitted	00Final_Sci_Test_rept.doc	5/1/00
deck ops	98	Install a raised grated deck a few inches (6-8) above the deck, between the aft A-frame. . . out fifteen to twenty feet. This will allow mud, debris and water to accumulate on the deck and not directly under foot. Members of the science parties are concerned that the water and mud will freeze in the Arctic temperature, causing an unsafe situation. A raised deck has been installed on both Polars. Source – J. Coburn, Woods Hole Oceanographic Institute – Phase 3, Leg 1 Level Icebreaking	2	open	3/31/03	HEALY MST	Evaluate current system and draft CSMP if it is not adequate and other solutions are not available.	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops		Removal of starboard crane vent trunk	2	open	3/31/03	Healy MST	Surface CSMP		
deck ops		Relocation of the gasoline barrel racks	2	open	3/31/03	Healy MST	Draft CSMP		
deck ops	56	The towing bit in the center of the fantail raises many concerns about science use of the deck	2	open	6/30/03	AICC/MC(v)	Need scientific justification and approval to be included in any future yard packages.	00Final_Sci_Test_rept.doc	5/1/00
deck ops	84	Controls for the Towing Capstan should be simplified to a single electronic control handle with both friction retention and detent settings to provide variable control with continuous speeds. Alarms can be simplified and duplication eliminated. Electro-hydraulic control of the Towing Capstan with a single variable flow control valve should be installed in the steering gear room to reduce maintenance on the control valve, reduce the potential for hydraulic contamination and eliminate piping in the arctic weather. Source – M.Tilyou, ELC Write-Up dtd 23 June 2000. (PSA II Meeting Action 8/23/00: (GF) CSMP to be written for Gov't funded correction and completion during this availability.	2	open	6/30/03	HEALY MST	MSTs need to submit CSMP	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops	78	Consider building out starboard winch control station from present position to position of protrusion of vents and garage door housing. Use tall, angled glass to give operator super view.	3	open	mid-life	HEALY		00Final_Sci_Test_rept.doc	5/1/00
Incubator	100	Define a sites and requirements for incubators		open			Incubators are science program sepcific	00Final_Sci_Test_rept.doc	5/1/00
Labs	120	The sinks in the science laboratories must be provided with proper drains. Presently they overflow onto the lab floors	1	open	4/26/02	Healy	Bio Chem Lab still a problem	Amos&AndiReport.doc	4/21/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
Labs	122	The Bio/Chem lab temperature control is unsatisfactory for science.	1	open	12/31/02	Healy	Need for SBI. A replacement thermostat has been installed. It should be adequate. Needs evaluation. The measured swings in temperature in the Bio/Chem lab exceeded the SOR requirement of "within 5 degrees Fahrenheit" by a factor of two. Most science users will want much tighter control, on the order of plus or minus 1 degrees Celsius. Source – Test Memo 8C666D545 - Bio/Chem Lab Temperature/Humidity Monitoring (GDR 0113SS001) (PSA II Meeting Action 8/23/00: (KA) Will be send to TODD Shipyard to design a fix, then to Avondale Engineering Dept. for review prior to Taking corrective action.	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Labs	108	In the main lab at the tables away from the bulkhead, more electrical receptacles are needed, possibly by putting plug strips on bench tops	2	open	12/31/02	Healy	Evaluate the availability of service (not receptacles)	00Final_Sci_Test_rept.doc	5/1/00
Labs	113	Relocate the gas bottle storage rack now in the starboard science staging area	3	open	12/31/02	Healy	HEALY does not think rack should be moved. Evaluate following this summer's cruises.	00Final_Sci_Test_rept.doc	5/1/00
Labs	119	Consider moving large tool chests to a different location, perhaps in the otherwise unusable small staging room aft.	3	open	12/31/02	Healy	HEALY does not think tools should be moved.	00Final_Sci_Test_rept.doc	5/1/00
labs	135	Environmental Chambers, Science Freezers and Refer data (temperature) should be logged in SCS and monitored.	2	open	3/31/03	HEALY MST	Evaluate first. Some of this data is recorded on local chart recorders.	SCS Data Acquisition System.doc	5/1/01
Labs	110	Create a site to install optional benches and/or a bench with portable wet sink in the aft science staging area	3	open	6/30/03	Healy	CSMP is drafted for Unistrut in aft science area. Aft science staging is flexible space	00Final_Sci_Test_rept.doc	5/1/00
Labs	124	There needs to be flexible space in aft conning for special purpose equipment.	3	open	6/30/03	Healy	Part of CSMP space re-allocation. Needs study. Aft science conning stations should have electronic racks installed to accommodate special sampling system electronic controls. Suggested spot, forward bulkhead. This would give the operator of towed apparatus electronics a view of the equipment on the back deck and would be close enough for convenient direct comms with the winch operators. Source – Test Memo# 8C591D545 – Science Towing (MOCNESS), P. Lane, dtd 9 June 2000	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
met sensc	141	Met sensor meta data should be verified, recorded and logged with data from these sensors. The averaging period should be determined and put in the data file header	1	open	4/26/02	HEALY MST	This may be done to some extent and should be made part of normal procedures. There is an average difference between the psychrometer dry bulb temperature and the ship's temperature sensor of 0.91 degrees C. Since there aren't any calibration records available for either method, it is not possible to determine which temperature is correct.	00Final_Sci_Test_rept.doc	5/1/00
met sensc	149	Define appropriate met sensor suite.	2	open	12/31/02	AICC	Accuracy and traceability of sling psychrometer needs to be resolved. Yearly calibrations of the sling psychrometer are needed. A psychrometer with a narrower range should be obtained.	00Final_Sci_Test_rept.doc	5/1/00
met sensc	136	Replacement sensors suitable for high latitude work need to be procured.	2	open	3/31/03	HEALY MST		00Final_Sci_Test_rept.doc	5/1/00
met sensc	138	Evaluate appropriate locations for met sensors and remount if necessary.	2	open	3/31/03	HEALY MST	Suggestion from this report was to mount one on the bow and the second on the top of the helo control station. The forced aspiration temperature sensor is mounted on starboard rail of deck 06. The intake for the sensor is about .5 meters from the deck that is painted a dark color. Heat radiated from this surface will affect the temperature readings. A more suitable location needs to be found. Get input from AICC/Peter Minnett/RSMAS	00Final_Sci_Test_rept.doc	5/1/00
met sensc	142	The system should be modified so that both sensors are logged independently.	2	open	3/31/03	HEALY MST	Draft CSMP for IBS contractor review and solution.	00Final_Sci_Test_rept.doc	5/1/00
met sensc	147	Spare parts should be onhand; minimally a spare blower motor should be obtained	2	open	3/31/03	HEALY MST	MSTs to verify actual spares.	00Final_Sci_Test_rept.doc	5/1/00
met sensc	148	Yearly calibrations for all appropriate met sensors should be scheduled. The temperature sensor and temperature input module should be sent for factory calibration as a set.	2	open	3/31/03	HEALY MST	Develop PM	00Final_Sci_Test_rept.doc	5/1/00
misc	168	Air flow in each fume hood should be checked with a certified flow meter to ascertain the proper door opening for maximum rated performance.	1	open	4/26/02	HEALY MST	MSTs to get standards for airflow, obtain measurements and mark the hoods before SBI cruises. Call ISC (k) for assistance. Create CSMP and PM item for once a year if necessary.	00Final_Sci_Test_rept.doc	5/1/00
misc	170	Provide a place (racks or hooks) for scientists to hang their cold weather gear (in the main and wet lab areas). Source – Test Memo# 8C591D543, W. Martin/M. Realander, dtd 7 June 2000	3	open	3/31/03	HEALY MST	evaluate after summer 02 cruises	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
nav	174	Log all sources of heading, all of the time. Make sure inputs are labeled and documented clearly.	2	open	3/31/03	HEALY MST	The output of the manual switch has the data tag of GYRO_SW_GPHDT_HEADING. This tag is confusing because when it is set to the 3D GPS it is not a gyro. It is recommended that this tag be changed to SW_GPHDT_HEADING	00Final_Sci_Test_rept.doc	5/1/00
seabeam	190	USCG should insure, either internally or via NSF/UNOLS/AICC, that the network routing between SDN and SeaBeam network, tested during this shakedown cruise, is implemented. Processing data without this routing will be significantly slower and more cumbersome for the science personnel	1	open	4/26/02	ESU	System will be designed and will be implemented prior to sailing this summer (2002). This should provided real time access to multibeam data.	seabeamSt	5/1/01

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
		The two SGI O ² workstations, presently configured for basic processing of SeaBeam data, need to be maintained in their present configuration. These need to be secured, backed up, and their presence needs to be established as permanent, important participants of the Science Data network.	1	open	4/26/02	HEALY MST	Ensure these computers are operational as they were during AMORE cruise.		5/1/01
seabeam	193							seabeamSt	
seabeam	180	verification of the pitch and roll bias corrections and checks on repeatability	1	open	12/31/02	HEALY MST	Develop a bi-annual PM, to be done at the beginning and the end of each deployment. Keep the results in a permanent table for future reference and maintenance records.	00Final_Sci_Test_rept.doc	5/1/00
seabeam	182	Maintenance and operation of SeaBeam system needs to be planned and reviewed to ensure science requirements are being met. Put in place an appropriate contract and/or other operational, training, maintenance procedures.	1	open	12/31/02	HEALY/MLC (v)	There is a draft statement of work for L3 (manufacturer) to provide maintenance support and when needed assistance in providing operators. This statement of work needs to be reviewed. Need to evaluate whether or not operational support can be provided through L3 or some other mechanism.	00Final_Sci_Test_rept.doc	5/1/00
seabeam	191a	USGC should coordinate with L3 (SeaBeam Inc) to provide procedure for updating the configuration file in SeaBeam reflecting current sensor locations using best available assessment of system performance in the ice.	1	open	12/31/02	HEALY MST/PACAR EA		seabeamSt	5/1/01
seabeam	181		2	open	12/31/02	Chayes/M. Edwards	evaluate data taken while in ice during 2001 to evaluate performance.	00Final_Sci_Test_rept.doc	5/1/00
seabeam	186	The multi-beam system requires high quality position data once per second.	1	open	3/31/03	HEALY/MLC (t)	New P-Code receiver with crypto enabled needs to be fed with correct information directly into the SeaBeam system every second. The ATG contractor/MLC(t) should investigate and provide solution.	seabeamSt	5/1/01
seabeam	186a	Define heading inputs into multibeam. Direct serial input of heading from the Ashtech receiver in the short term and improved heading reference sensor in the future.	1	open	3/31/03	HEALY/MLC (t)	Short term solutions should be put in place before summer 02 deployment. Longer term solutions after details are investigated.	seabeamSt	5/1/01
seabeam	195	Upgrade the SeaSurvey workstation by configuring the fourth O ² and obtaining the appropriate license from SeaBeam.	2	open	3/31/03	HEALY MST	Try to get a backup software key to be used in the event that the primary workstation fails.	seabeamSt	5/1/01
seabeam	290a	Streamline the system for getting sound velocity information from XBT system to SeaBeam and other systems.	2	open	3/31/03	HEALY MST		SCS Data Acquisition System.doc	5/1/01
seabeam	179	clarification on the depth dependence of the software controlled switch from shallow to deep operating modes.	3	open	3/31/03	HEALY MST	Ask Peter Lemond or other SeaBeam Operators or SeaBeam what the answer is.	00Final_Sci_Test_rept.doc	5/1/00
seabeam	191	A survey of multibeam sensor and other sensor locations should be conducted	1	open	6/30/03	HEALY/MLC (v)	This survey should include multibeam transducers, vertical reference units, navigation sensors, overboarding sheaves, etc. Dave Forucchi has a point of contact for potential contractor. Ship to draft CSMP for accomplishment during DD04 and have CSMP ready for earlier opportunities.	seabeamSt	5/1/01
sn	225	A default product or range of products that will be provided to the scientific party at the end of the cruise should be established with the ability to adjust to reasonable variances. A policy on where and how logged data should be stored should be established.	1	open	4/26/02	Healy MST/AICC	First cut of this will be provided to SBI scientists. AICC review this version when available or post cruise.	SCS Data Acquisition System.doc	5/1/01
sn	227	A clear process for distributing data outputs to other systems needs to be established and documented. Standard Data Message Templates should be established such as the ones created for SeaBeam and the XBT system. Protocols and checklists to ensure these are initiated properly should be created.	1	open	4/26/02	HEALY MST	Process in place and will be documented.	SCS Data Acquisition System.doc	5/1/01
sn	217	The SCS will require that the Coast Guard become totally familiar with the architecture of the system and how to utilize it effectively. The Coast Guard should nurture some in house experts, both on the Icebreakers and at the ESU and the Coast Guard should put in place a formal agreement for support from NOAA to ensure the system remains current and viable. The Coast Guard should ensure that the hardware is adequate and appropriate for supporting this system and that the underlying network is properly administered. Whoever is tasked with network administration and SCS system administration should be properly trained. As many MST's and MSO's as possible should attend the training provided by NOAA. Configurations, communications protocols and changes to the system should be documented.	1	open	6/1/02	PACAREA/MLC(v/t)/ESU/AICC	The HEALY (& POLAR) science data system needs to be designed. A scope of work for properly operating and maintaining this system also needs to be developed. In order to accomplish this we need to: create statement of requirements for a "sources sought" announcement in the CBD and to UNOLS community, concept designs from qualified responders to be reviewed in San Francisco or Alameda in conjunction with AGU/AICC town hall meeting second week in December. Dave Forucchi to prepare draft set of requirements with review by AICC by 6/01/02. MLC (t/v) and ESU will produce the broad announcement for "sources sought" and UNOLS will distribute through their networks.	SCS Data Acquisition System.doc	5/1/01
sn	226	A policy on what data the Coast Guard will be responsible for transmitting to National Archives, if any should be established. AICC should make a recommendation	2	open	9/30/02	AICC	Assemble what other operators do and provide a reasonable recommendation to the Coast Guard and/or NSF (funding agencies).	SCS Data Acquisition System.doc	5/1/01
sn	199	Some data losses seem to occur when perhaps stray RF fields from equipment start ups cause RS232 lines to drop out	2	open	12/31/02	HEALY MST	Observe and evaluate whether or not this is still happening, with what sensors and to what extent during the upcoming cruises. Need more detail from Tony Amos document to determine where this was occurring.	Amos&AndiReport.doc	4/21/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
sn	213	Get a CD burner for one of the SGI machines	2	open	12/31/02	HEALY MST		Healy Seat	5/1/01
sn	230	Determine which antenna or location within the ASHTECH GPS antenna array is used as the point of reference for use with SeaBeam offset table.	2	open	12/31/02	HEALY MST	Get info from manual	SCS Data Acquisition System.doc	5/1/01
sn	232	Create comms connection and set up protocol to log water depth data on SCS from all available systems. Meta data such as identifying the frequency being used and identifying the source receiver.	2	open	12/31/02	HEALY MST	Currently SeaBeam center depth is the only water depth being recorded. Knudsen and Bathy 2000 data should be added. Document the configuration and the "made up" NEMA data string for SeaBeam Center Depth with instructions about what data is being provided from SeaBeam to SCS. Ensure that the ability to provide this output or an equivalent is maintained if any changes or upgrades are made to the SeaBeam data management system.	SCS Data Acquisition System.doc	5/1/01
sn	235	Verify the true wind speed and direction calculations and data accuracy in the SCS.	2	open	12/31/02	HEALY MST		SCS Data Acquisition System.doc	5/1/01
SN	197	Serial NMEA GPS, heading, etc. outputs must be provided in lab spaces	2	open	3/31/03	HEALY MST	Some are done, continue to provide access to data outputs for users.	00Final_Sci_Test_rept.doc	5/1/00
sn	200	Sperry IBS system should be configured to provide output string with waypoint data that will show current waypoint position information, TTG, bearing, range, etc.	2	open	3/31/03	HEALY/MLC (t)/ESU	Identify data requirements, format and contact Sperry	Amos&AndiReport.doc	4/21/00
STB A Frame	243	As presently configured, this means that starboard piston coring and CTD casts could not occur on the same cruise. However, it appears that if the current core supports were lengthened and placed further outboard, this would allow the horizontal core barrel to tend further outboard and perhaps not interfere with the throw of the fully extended starboard A-frame	2	open	12/31/02	HEALY MST	Evaluate during summer 02 cruises.	00Final_Sci_Test_rept.doc	5/1/00
USSS	254	The de-bubbler should be installed in-line with the fluorometer and TSG to reduce the noise on the record caused by air bubbles in the USSS	1	open	4/26/02	HEALY MST	parts available and will be done before sailing	Amos&AndiReport.doc	4/21/00
USSS	255	Verify that the full resolution of TSG data output is logged.	1	open	4/26/02	HEALY MST	check scs	Amos&AndiReport.doc	4/21/00
USSS	262	Recommend that a serial switch and/or a splitter be installed near the TSG in order to allow the controlling computer to talk to the TSG when necessary and possibly to allow logging and processing of data at the local terminal with SeaBird software. This computer should also have access to the archived data over the network. Determine if the local computer can send commands to the TSG at the same time that the SCS system is hooked up to the TSG without creating problems for the SCS. If it does create problems, then the option above should be a switch that cuts out the SCS whenever the local computer needs to send commands to the TSG.	1	open	12/31/02	HEALY MST		SCS Data Acquisition System.doc	5/1/01
USSS	259	Uncontaminated science seawater strainer clogs rapidly with slush when vessel is operating in ice. After clearing strainer, it clogs again in less than two minutes. This prevents operation of the thermosalinograph and all other devices using the uncontaminated science seawater system while operating in the ice. (NOTE: This will probably require a new sea chest, preferably farther away from the sea bay and closer to the science lab spaces. This will also improve the temperature differential, which currently does not meet the SOR requirement of 0.3 degrees Fahrenheit, between sea and the outlet spigots) Source – GDR 0098-SS-001, MSTC Hendricson, dtd 5/2/2000 (GDR 0098SS001) (PSA II Meeting Action 8/23/00: (GF) New card 98 SS 001, No corrective action to be completed prior to 2001 science operations. Ship's force, with NESU, to draft CSMP for permanent fix, which requires a complete re-design of the sea chest. Will forward to ELC Baltimore for review and funding.	1	open	6/30/03	MLC (v)	(PSA II Meeting Action 8/23/00: (GF) New card 98 SS 001, No corrective action to be completed prior to 2001 science operations. Ship's force, with NESU, to draft CSMP for permanent fix, which requires a complete re-design of the sea chest. Will forward to ELC Baltimore for review and funding.	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
vans	266	It is highly advisable to dock a van at one of the main deck stations and hook up all services.	2	open	12/31/02	HEALY MST	Evaluate and report post cruise.	00Final_Sci_Test_rept.doc	5/1/00
vans		Rework 40' container pad to handle two 20' vans	2	open	3/31/03	HEALY/MLC (v)	Draft CSMP if it is determined that total hotel services are needed for additional van locations.		

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
vans	266a	Provide 450V 3 phase power for van locations with hotel services.	2	open	6/30/03	HEALY/MLC (v)	Determine requirements, highest value locations and HEALY draft CSMP		
winch wire	269	Wire tension sensors should be calibrated periodically	1	open	12/31/02	HEALY MST	Create PM item, determine frequency based on manual and monitoring data. Have PM executed by winch maintenance contractor.	00Final_Sci_Test_rept.doc	5/1/00
winch wire	272	Develop safer and more expedient procedures for re-reveing wires.	1	open	12/31/02	Healy	Evaluate during the summer 02 cruises. Past suggestions include: A hinged, moveable catwalk should be installed that would fold up out of the way when not in use to access the sheave in the Starboard Staging Area. Another moveable, hinged catwalk should be installed out of harms way near the inboard sheave and the present catwalk so that the moveable hoist for the 20 foot container vans could still operate. Another solution is to reposition the guide pins 1 1/2 inches further out and replace the 2" Wide X 4" Deep black plastic Delrin / Nylatron sheave rims with 3" Wide X 5 1/2" Deep, re-machined sections having a broader 1 3/4" diameter U-shaped groove added to the outer portion of the existing V-shaped groove. The solution would be to disassemble the Electroline 9/16" wire termination attached to the end of the trawl wire - i.e. unscrew and remove the larger eye socket piece from the smaller sheath and plug portion of the Electroline wire termination.	00Final_Sci_Test_rept.doc	5/1/00
xbt	290	Protocol and procedures for data logging and access need to be established.	2	open	12/31/02	HEALY MST		SCS Data Acquisition System.doc	5/1/01
ADCP	12	In addition to the genuine Ashtech heading string being sent to the DAS PC, pure P-code GGA messages need to go from a P-code receiver to the DAS PC. If necessary to provide a P-code GPGGA message stream for science use, a dedicated P-code receiver should be obtained--they are not expensive. VmDas can handle navigational inputs from two ports, but Transect has only one input; if Transect must be used, then a buffered serial port combiner should be installed to merge the P-code and Ashtech data streams on a line-by-line basis.		repeat	4/19/02	MLC(t)	After installation, test and verify input to ADCP	Hummon_healy_adcp.doc	7/18/00
ADCP	13	A sound speed sensor should be installed in the transducer well, and its output logged so as to provide easy access for postprocessing of the ADCP data. This is essential because the calculation of velocity from Doppler shift depends on the sound speed at the transducer. Sound speed depends on the temperature and the composition of the fluid; although the temperature is measured at the transducer, the composition is in general not known with adequate accuracy (if at all), and we have been unable to find formulae for soundspeed in antifreeze mixtures.		Repeat			See # 7	Hummon_healy_adcp.doc	7/18/00
coring	29	Both piston corers and multicorers can experience tensions in excess of 8,000 lbs. especially during pullout, which necessitates using a deep-sea trawl wire to deploy each corer. As the Healy is presently configured, this means re-reveing the trawl wire between the starboard and aft A-frames.		repeat			some brilliant person needs to come up with another idea.	00Final_Sci_Test_rept.doc	5/1/00
CTD	46	CTD console is not located in a good area. It is currently in the entrance of the aft control room and the traffic is very disturbing		repeat			see item # 43	00Final_Sci_Test_rept.doc	5/1/00
CTD	47	The winch wires that come up to the CTD console should be wired into individual junction boxes rather than to CTD deck box connectors.		repeat				00Final_Sci_Test_rept.doc	5/1/00
CTD	48	Log books need to be kept		repeat				00Final_Sci_Test_rept.doc	5/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
CTD	52	The winch wires that come up to the CTD console should be wired into individual junction boxes rather than to CTD deck box connectors. When equipment other than CTD's are used the ends would have to be cutoff and rewired. A junction box would allow for easier changes. All three inner conductors along with the armor should be available in these junctions boxes for the 322 cable and the armor, coax shield and coax inner conductor for the 680 wire. Also, purchase and install a NMEA interface board in deck box 11P10703-0416 to facilitate connections of electronics. Source - Test Memo# 8C591D543, W. Martin/M. Realandler, dtd 7 June 2000		repeat			see # 43	App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops	68	The plastic socket plugs will be a source of trouble and should be replaced with stainless steel internal wrenching (socket) plugs		repeat				00Final_Sc i_Test_rept.doc	5/1/00
deck ops	86	The towing bit in the center of the fantail raises many concerns about science use of the deck. First, it takes up prime space for mooring and traction winches. Also, it makes access to vans behind the bit difficult. Doors may swing open, but hauling cargo in and out of vans will be almost impossible. The bit will impede any AUV operations that require a track for launching. Most of these operations require a straight shot from the "roll-in-roll out" container to the A-frame. Source - Test Memo# 8C591D544 - Science Mooring Buoy, J. Kemp, dtd 23 June 2000 <i>This issue was raised at the AICC meeting and CAPT Garrett stated he would re-visit the question, provided with compelling input from the science community with information indicating negative impact on science performance</i>		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops	87	Nylon plugs continue to seize in the threaded holes in the fantail deck working area. This caused a halt in deck operations while plugs were drilled out. Deck plugs should be stainless steel hex key types. Plugs should be no more than 1 inch in length. Our experience is that these plugs give the least amount of trouble. If ice forms in the hex detent, it can be chipped out easily with a screwdriver. Source - Test Memo# 8C591D544 - Science Mooring Buoy, J. Kemp, dtd 23 June 2000 (PSA II Meeting Action 8/23/00: (KA) Plugs will be replaced by TODD Shipyard with "Teflon Plugs). Stainless steel plugs were discussed and rejected by the group (as they may rust in place and would be expensive to remove. (Bash/Freitag concurred)		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
deck ops	92	Wire feed-throughs to the main deck should be installed in main lab and wet labs. This would accommodate cables to instrumentation on deck, and acoustic survey work over the side. A 5" diameter feed through (capped) would be ideal. Source - Test Memo# 8C591D544 - Science Mooring Buoy, J. Kemp, dtd 23 June 2000		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Incubator	101	The major problem with the existing incubator system is the warm cooling water that is several degrees above ambient surface seawater temperatures		repeat				00Final_Sc i_Test_rept.doc	5/1/00
Incubator	102	Incubator Requirements (in approximate rank order):		repeat				00Final_Sc i_Test_rept.doc	5/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
Incubator	103	Science incubator location aft of the stack on the 04 deck is unsatisfactory. Uncontaminated seawater is not piped to this level. The auxiliary seawater outlet provided, although of sufficient volume and pressure, is taken from the seabay and thus considerably heated. A second concern is the lack of effluent drain into heated space. A standard over the side deck drain will have serious freezing problems in sub zero weather. Source - Chief Scientist Leg 2, Report #4 dtd 8 June 2000 (NO CARD WRITTEN) (PSA II Meeting Action 8/23/00: (GA) New card written, to be added to 2001 dockside availability list (deferred). Plan to move incubator location to the top of the ATG (Bash/Freitag concurred in that science planned in 2001 does not include use of incubator).		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Incubator	104	There is no ideal site that will fully satisfy incubation needs. There are some options near present outlets of the uncontaminated scientific seawater system on the weather decks. The most likely site is probably on the 02 deck at a van location on the port side not too far from the helicopter shed. The flow rates of the two spigots (6.4 and 6.1 GPM) from the uncontaminated seawater system at this site are quite good and the temperature was only about +0.49 °C above ambient over the range of -1.0 to +0.4 °C (See uncontaminated scientific sea water report for details). Incubators near the rail would enjoy mostly sunlight without shadows during hours of peak radiation input. Depending on other scientific programs there may be places on the main deck fantail that could be used although some shadows will be present at all locations. These locations offer uncontaminated science seawater for those incubations that require continuous flow feed water for chemostat or turbidostat phytoplankton growth experiments.		repeat				IncubatorTest.doc	5/1/00
Incubator	105	Additional comments added Feb 2001-- An additional location with relatively good sunlight was identified on the starboard bow near the rail. The uncontaminated seawater and electrical power sources are located on the forward bulkheads. It would be necessary to use hoses and power cords to supply the water. This location is a long walk from the back deck but the available sunlight should be about the best location on the vessel.		repeat				IncubatorTest.doc	5/1/00
Labs	111	addition of a wet lab bench in the after storage bay		repeat				00Final_Sc i_Test_rept .doc	5/1/00
Labs	114	Log books should be maintained for each instrument to log all calibrations, repairs and changes in configuration. This is especially true for the Guildline salinometer, Turner fluorometer, CTD/rosette and the flow-through Salinity/Temperature		repeat				00Final_Sc i_Test_rept .doc	5/1/00
Labs	118	Remove gas cylinder storage rack to a different location, perhaps in the otherwise unusable small staging room aft.		repeat				00Final_Sc i_Test_rept .doc	5/1/00
Labs	121	The sinks in the science laboratories must be provided with proper drains. Presently they overflow onto the lab floors. Some floor drains have had a small pipe funnel added with temporary hose to the sink drain, but there is still considerable overflow at normal sink drain rates. This water ends up on the deck and is a nuisance as well as a safety hazard. Source - Phase IV, leg 2 report by Anthony F. Amos/Andrea W. Rowe, undated (NO CARD WRITTEN) (PSA II Meeting Action 8/23/00: (KA) forwarded to TODD Shipyard for corrective action.		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Labs	123	Lab bench areas should be installed in the bay of the aft deck for biological sample preservation and use of formalin. Source - Test Memo# 8C591D545 - Science Towing (MOCNESS), P.Lane, dtd 9 June 2000		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
Labs	125	In the main lab at the tables away from the bulkhead, more electrical receptacles are needed. Possibly putting plug strips on bench tops. Source – Test Memo# 8C591D543, W. Martin/M. Realandar, dtd 7 June 2000		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Labs	129	Science Conning Station needs additional bench space and two standard electronics racks for science party members to mount temporary monitoring equipment. Recommend locating bench and racks on the forward bulkhead. Source – Peter Lane, University of Miami – Phase 4, Legs 1 & 2 Science Systems		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
Labs	130	Logbooks need to be kept. Source – Test Memo# 8C591D543, W. Martin/M. Realandar, dtd 7 June 2000 (NO CARD WRITTEN)		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
met sensc	143	Location of factory current calibration data: Unknown		repeat				00Final_Sci_Test_rept.doc	5/1/00
met sensc	144	Date of last calibration: Unknown		repeat				00Final_Sci_Test_rept.doc	5/1/00
met sensc	146	The forced aspiration temperature sensor is mounted on starboard rail of deck 06. The intake for the sensor is about .5 meters from the deck that is painted a dark color. Heat radiated from this surface will affect the temperature readings. A more suitable location needs to be found		repeat				00Final_Sci_Test_rept.doc	5/1/00
met sensc	150	A psychrometer with a narrower range should be obtained.		repeat				00Final_Sci_Test_rept.doc	5/1/00
met sensc	152	There is an average difference between the psychrometer dry bulb temperature and the ship's temperature sensor of 0.91 degrees C. Since there aren't any calibration records available for either method, it is not possible to determine which temperature is correct.		repeat				00Final_Sci_Test_rept.doc	5/1/00
met sensc	157	Young Air Temp Properly install, calibrate and configure this sensor.		repeat				SCS Data Acquisition System.doc	5/1/01
met sensc	158	Young Relative Humidity Install, calibrate and configure		repeat			need a PM item		5/1/01
met sensc	159	Young Barometer Install, calibrate and configure		repeat			need a PM item	SCS Data Acquisition System.doc	5/1/01
met sensc	155	The present anemometers (R. M. Young Model 5106) do not function properly in high latitudes. Designed for operating in temperature ranges of -50 to +50 Celsius, both units were observed to freeze-up at temperatures just below freezing. Additionally the sensors need to be moved to prevent interference from the mast and radar antennas. Also, it is recommended that a third anemometer be installed on either the jack staff or the Helo Control Station to insure accurate readings 100% of the time. Source – R. Findley, University of Miami – Phase 4, Leg 3 Report (NO CARD WRITTEN) (PSA II Meeting Action 8/23/00: This item was divided into two parts. (1) (KA) replacement/upgrade of present anemometers to meet spec requirements and (2) (GF) Addition of third unit to be investigated and funded by the Gov't		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
met sensc	156	Repair port RM Young wind bird or sensor for relative direction. Install additional wind sensor that is onboard. Determine the method for recording which wind sensor is being used or set up system to record both. Verify that data outputs are accurate.		repeat				SCS Data Acquisition System.doc	5/1/01
misc	160	All sink drains should have holes cut in the grating to allow hoses to extend well into the drain to prevent overflow		repeat				00Final_Sci_Test_rept.doc	5/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
misc	165	Consider moving the large stacked tool and supply box now in the starboard science staging area to the assembly room just aft of the staging area		repeat				00Final_Sci_Test_rept.doc	5/1/00
mocness	173	The aft control room should also have electronic racks installed to accommodate MOCNESS		repeat				00Final_Sci_Test_rept.doc	5/1/00
nav	175	The output of dual gyro system has the data tag of GYRO_UNSW_GPHDT_HEADING. This tag is also confusing because it is the automatically switched output of the dual gyro system. It is recommended that this tag be changed to GYRO_GPHDT_HEADING		repeat			item 174	00Final_Sci_Test_rept.doc	5/1/00
nav	176	. It is recommended that three additional outputs be added to the system to resolve this issue. Two of these outputs would be the serial data out of the primary and secondary gyros. The data tags for these outputs should be PRI_GYRO_GPHDT_HEADING & SEC_ and SEC_GYRO_GPHDT_HEADING. Addition of these outputs would allow comparison of the gyros and allow the scientist to compare and select the desired gyro. The third output would be HEADING_SENSOR_SELECTED. This data tag would allow users to determine which sensor had been selected. These changes do not require any changes to the existing connections to the ship integrated bridge or other science equipment		repeat			item 174	00Final_Sci_Test_rept.doc	5/1/00
nav	177	Determine if operational procedures or other types of safeguards can be put in place to make the Sperry IBS system the default system for input to SeaBeam and other systems. These procedures should ensure that time is not changed from GPS synched time. It would also be useful if the ycode position was the primary source for the Sperry system.		repeat				SCS Data Acquisition System.doc	5/1/01
nav	178	Glonass: A determination should be made as to whether or not this system will be used and logged to the SCS system. Need to determine the source of the error and lack of data and configure this input correctly if it is to be used. This should probably be done and the configuration settings recorded so that it can be implemented when needed if not part of the default suite of sensors.		repeat				SCS Data Acquisition System.doc	5/1/01
seabeam	187	A recommended maintenance schedule for SeaBeam system should be established, and records kept. Cleaning filters and tape drives should be done at regular intervals, as instructed by the manufacturer. One item of immediate concern is the UPS battery in the SeaBeam rack – should be replaced now and at recommended intervals		repeat			support contract being developed	seabeamSt	5/1/01
seabeam	192	Begin dissemination within the MST personnel group of all aspects of operating SeaBeam and its various displays. At present, one person seems to be bearing all the responsibility for these items – while specialists are often required, distributing this knowledge among a group will not overtax personnel		repeat			training in SeaBeam Support contract, See Item # 182	seabeamSt	5/1/01
seabeam	194	USGC should coordinate with SeaBeam Inc to provide updated software reflecting current sensor locations, identified bugs, and so forth		repeat				seabeamSt	5/1/01
sn	228	A determination should be made as to how many sources of Navigation Data should be acquired, logged and displayed by the SCS system and which NMEA strings should be recorded for each sensor.		repeat				SCS Data Acquisition System.doc	5/1/01
sn	229	The Ycode (p-code) receiver should be upgraded to allow NMEA message output at a rate of once per second. If not possible a new Ycode (p-code) receiver should be obtained. If the ycode receiver can support NMEA output at a once per second rate and can transmit a one pulse per second output then using that receiver for the external time sych for the SeaBeam should be considered.		repeat			new receiver needs to be integrated with SeaBeam	SCS Data Acquisition System.doc	5/1/01

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
sn	234	Document the configuration and the "made up" NEMA data string for SeaBeam Center Depth with instructions about what data is being provided from SeaBeam to SCS. Ensure that the ability to provide this output or an equivalent is maintained if any changes or upgrades are made to the SeaBeam data management system.		repeat				SCS Data Acquisition System.doc	5/1/01
sn	203	Provide serial NMEA GPS, Heading, etc. outputs in lab spaces. Source – Test Memo# 8C591D543, W. Martin/M. Realander, dtd 7 June 2000 (GDR 0058SS001)		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
sn	231	Determine which gyro is being recorded by the SCS.		repeat				SCS Data Acquisition System.doc	5/1/01
STB A Fr	240	Realign the block and wire sheaves so that everything aligns with the center of the A-frame		repeat				00Final_Sci_Test_rept.doc	5/1/00
STB A Fr	242	there should be a large readout of Wire Out and Tension in the Starboard Staging Area visible from under the starboard A-frame even at night		repeat				00Final_Sci_Test_rept.doc	5/1/00
STB A Fr	248	Realign the block and wire sheaves so that everything aligns with the center of the A-frame.		repeat				00Final_Sci_Test_rept.doc	5/1/00
STB A Fr	251	(To significantly improve use of the coring system) Install new padeye on starboard A-frame (cross member), as far aft and as close to 48 inches from the center padeye as reasonable. Padeye should be rated for 6000 lb. Shackles and tackle hanging from the padeye must clear starboard A-frame structural elements by at least 3 inches. Source – M.Tilyou, ELC Write-Up dtd 23 June 2000		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
STB A Fr	252	Very poor visibility from the winch operator to the deck supervisor when using the stbd A-frame. Recommend installing a window that slides open or is placed at an angle to permit better visibility. Source – J. Farmer & B. Parsons, Coastal Systems Station – Phase 2 Warm Water Trials		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
USSS	258	Relocate the thermosalinograph to a deck position in the bio/chem lab and install the debubbler (already onboard) for the thermosalinograph and flourometer. Without the debubbler installed, erratic readings are commonplace. (Note: warranty card submitted with sketch of recommended installation) Source - Phase IV, leg 2 report by Anthony F. Amos/Andrea W. Rowe, undated (GDR'S 0098SS001 AND 0118SS001 & 002) (PSA II Meeting Action 8/23/00: (GA) PSA II growth item to be added to list.		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
USSS	260	The flourometer needs to be re-plumbed to avoid having hoses snaked along the floors and draining into the sink. Source - Phase IV, leg 2 report by Anthony F. Amos/Andrea W. Rowe, undated		repeat				App F SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00
USSS	261	Install Debubbler		repeat				SCS Data Acquisition System.doc	5/1/01
USSS	265	Fluorometer: Plumb this into seawater system. Verify calibration and operation. Verify data is logged properly in SCS.		repeat				SCS Data Acquisition System.doc	5/1/01
winch wire	274	Another moveable, hinged catwalk should be installed out of harms way near the inboard sheave and the present catwalk so that the moveable hoist for the 20 foot container vans could still operate		repeat				00Final_Sci_Test_rept.doc	5/1/00

Open Action Items from AICC Science Testing Cruises - USCGC HEALY
As of 4/12/02

System	item #	Recommendation	priority	Status	Target Date	POC	Comments and/or explanation	Source Document	Document Date
winch wire	275	The solution is to reposition the guide pins 1 1/2 inches further out and replace the 2" Wide X 4" Deep black plastic Delrin / Nylatron sheave rims with 3" Wide X 5 1/2" Deep, re-machined sections having a broader 1 3/4" diameter U-shaped groove added to the outer portion of the existing V-shaped groove.		repeat			Solution will be attempted soon	00Final_Sci_Test_rept.doc	5/1/00
winch wire	276	The solution would be to disassemble the Electroline 9/16" wire termination attached to the end of the trawl wire - i.e. unscrew and remove the larger eye socket piece from the smaller sheath and plug portion of the Electroline wire termination.		repeat			Solution will be attempted soon	00Final_Sci_Test_rept.doc	5/1/00
winch wire	279	All three inner conductors along with the armor should be available in these junctions boxes for the 322 cable and the armor, coax shield and coax inner conductor for the 680 wire.		repeat			ctd item as well	00Final_Sci_Test_rept.doc	5/1/00
winch wire	285	Electrical capability for mooring winches should be available on the stern. A typical science mooring winch requires 440 VAC, 60 amp, 3 phase service. Source - Test Memo# 8C591D544 - Science Mooring Buoy, J. Kemp, dtd 23 June 2000 (NO CARD WRITTEN) (PSA II Meeting Action 8/23/00: (GF) New card 217 SS 001, drafting CSMP to outline corrective action, which will be completed by NESU.		repeat				App F. SCIENCE ICE TRIALS DEFICIENCY LIST.pdf	4/1/00