

PI: Wilson/Lawver		Ph: 614-292-0723 wilson	Cruise #: NBP04-01	MPC: Lowe
Event#: G-099-N		E-mail: twilson@mps.ohio-state.edu	Date: 02/19/04	
Yes	No	Planning	<p>The fact that this was a multi-beam intensive cruise must not have been evident in the SIP. It is hard to explain details in Polar Ice since you basically just check boxes. There is a place for comments at the end of each section, but you need to be able to comment after each entry. The shopping list of equipment should include weight and dimensions of the dredges. A large chain dredge was requested, but NSF's large chain dredge is not considered large by the PI. He could have identified this earlier if he had known the size and weight ahead of time. Polar Ice is very hard to use. It is easy to make one mistake and lose everything on the previous pages.</p> <p>RPSC was very helpful, especially in the early planning stages. When Jim Dolan had to back out of the cruise, the impact of losing him was not fully communicated to the PIs. They would have suggested a more experienced multibeam technician if they had known earlier they were going to have a new employee.</p>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	SIP process adequate?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RSP helpful and timely?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	POC responsive?		
Yes	No	Medical	<p>All kits were sent out on time. The only problem arose when the PI was requested to submit additional information. He did, but a report was overlooked, delaying his PQ process. When he called to inquire what the delay was, he told them to look into his file, and the report was, in fact, there, but no one had bothered to read it.</p> <p>Yes</p>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Kits sent out on time?		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Questions answered?		

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Yes	No	Travel	The form is a little confusing for first-timers.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TRW available and understandable?	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ticketing completed easily?	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Meet and assist service?	
		Equipment Availability	The MCS streamer contained a source of 37 Volts that introduced noise into the data. This probably occurred at the manufacturer.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Requested equipment available?	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Damaged?	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Late?	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ECW Gear?	Marine personnel probably do not need as much as is provided in the ECW issue gear.

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Yes	No	Lab Space	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Adequate? (electrical, space, water, etc.)	The room on this ship spoils you compared to most research vessels.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Remote Sensing support? (QFax, Terascan, etc.)	Terascan support was great. RadarSat imagery was useless. The whole system needs to be sorted. Dates for receiving images should involve consultation with PIs. At best, dates should not have to be determined far in advance, but images should be received on demand, when need is greatest. If it is necessary to schedule images so early, a list of potential dates should be given to the PIs so that they can choose which two they can be allotted.
		Hotel Services	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cabin Assignments?	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Linens?	Excellent/Lovely
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Food?	Food was ok. There is too much fried food.

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Yes	No	Personnel Issues	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ECO?	<p>On more than one occasion, a PI was second-guessed by a mate. In one incident, the PI gave specific directions, then returned to the lab to check data. The mate determined alone to change directions and did not consult the PI before changing the plan.</p> <p>At the turnover between mates, immediate instructions were communicated, but bigger picture plans were not relayed. The scientists took over the responsibility of updating mates just after watch change after a few incidences caused confusion.</p>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	RSPC?	<p>RPSC staff was excellent. There were some questions about data processing that couldn't get answered (i.e. magnetic data processing/corrections). There needs to be some documentation on how RPSC gets to the finished product for magnetics and gravity.</p> <p>It was hard to find a person who knows things end-to-end. For example, ETs and ITs each knew one end of a system, but there was no crossover.</p>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Research Objectives	
		All accomplished? If not, explain (weather, ice, equipment, personnel).	Ice conditions prohibited access to a large portion of the study area (B-15A, B-15K and C-16).

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Yes	No	Surveys Completed?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	USAP Metrics Survey
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GPRA Facilities Survey
<p>The PIs were given the surveys 10-days in advance of the cruise and reminded daily to submit them. They did not, but promised to send them to the POC when they returned home.</p>		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Future Cruises
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>If returning for another cruise, are there any additional equipment or support needs your group anticipates?</p> <p>Magnetic data processing questions need to be answered. The IGRF may be wrong or out of date. There needs to be documentation on processing magnetic and gravity data.</p> <p>The PIs require qualified, experienced multibeam support. Chris Linden did fabulously given the circumstances, but better support was required.</p> <p>The modulator valve on the comporessor needs to be repaires so that changing the demand for air, like at the end of lines, is not such a hassel for the lab and the engine room. Heeling of the ship affected the oil pressure sensor by making it believe it was too low, and it automatically shut down the compressor. This shouldn't happen.</p>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Anything you would like to see changed?</p> <p>The back deck is layed out smartly for seismic deployments, making for smooth equipment transitions. Coring with seismic rails in place is crowded.</p> <p>The G/I airguns worked well, and maintenance was great. The solenoid springs need to be addressed. They fail too often.</p> <p>The streamer leveling system worked well.</p> <p>See more on last page.....</p>

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Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Other Diving, Zodiac, E-mail support, interactions with Palmer Station, etc.	<p>There should be an active mouse on the multibeam screen on the bridge.</p> <p>As a new person, it is hard to figure out who to talk to when for seismic deployments. There should be some type of scientist handbook that addresses who to notify and how early each department needs to be notified prior to starting any system. For example, prior to starting seismics, marine mammal observations need to begin in __ hours. Notify the engine room __ hours in advance of needing the seismic compressor. etc....</p>

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Additional Comments/Overflow:

MCS Streamer:

We should be able to log the birds.

There were electrical issues in the cable, and RPSC was not prepared to measure leakage to seawater or pair-pair connections.

There is no spare.

There is noise in all of the channels, which is worse during swells. Most lead-ins have stretching capability, and this would probably eliminate the noise.

Depth control was good.

The streamer is not well-balanced, particularly the head and tail.

The Elics should be replaced - the display is useful and flexible, but it is not good enough to tell you if the data are ok. The data it is putting out is mislabeled, which makes it difficult to QC. You have to physically stop acquisition and you can't conveniently do that until the end of a line. The system should log, then massage the data. In this case, the Elics takes data from three sources in a way that doesn't tell you how.

The swath bathymetry system is not suitable for shelf work. The current system is spec'ed for 500 m of water and greater. One rated for shallower water would be more appropriate.

The wiring at the back of the seismic rack is much improved, but still contributes 60 Hz noise that may be prevented by more careful wiring.

There is 100 Hz noise in most of the data, but the source is undetermined. This should be tracked down.

There should be an electrical buffer for trigger signals. The OYO may not have seen and effectively missed some data. This may be why it hangs up when it misses a shot.