Sharp Debrief summary			
11-Oct-11			
Question	<u>Summary</u>	Minor points	Debrief #1
Size: Has the overall size of the vessel either enabled or hindered you in meeting the science objectives of your cruise? Please explain how with specific examples.	All say Sharp is right size for their project.	Much better than Cape Henlopen (2 responses) Small Crew (for deck Ops) Low freeboard (wet deck) Rough seas (rough ride)	The size has allowed us to do w we normally have done, but I ha found deployment of moorings a other equipment much easier tha the R/V Cape Henlopen and son other vessels as the deck size a wonderful for a range of work. lir from the bottles.
Over-the-Side Handling System: Has this system had a positive impact on your work and if so how? Are there any negative impacts associated with this system?	All say over-the-side handling system is great.	Long learning curve overkill roll compensation	The major positive impact for the CTD launch and recovery is that is all automatic and we don't hav to bring it aboard and possible injuring ourselves in the process Sampling is much easier and sa as the CTD can be brought withi the garage doors on the ship for sampling from the bottles.
Retractable Centerboard with mounted acoustic transducers: Has this had any significant positive or negative impacts on your work?	Did not use or no impact.	The one fisheries Scientist likes the shallow draft (NOAA ships 20 ft).	This is a good arrangement and has not impacted our science

Question	Summary	Minor points	Debrief #1
Acoustically Quiet: Have you noticed any	All say really quiet	fisheries Scientist	This ship is VERY quiet and I kn
difference compared to other vessels, and		appreciates quiet	of no other ship that give such
has this had any positive or negative			noise reduction comfort!
impacts on your work?			
Vana and dook ana asy if you have used	Most have used yone and	aan anly have freeh water	We have used the trace motal
the vans how well did they accommodate	say still have adequate deck	to one van Breezewav is	clean van and normal van on on
your internal space requirements? Did this	space when one van on	nice	cruise and we were still able to
modularity have a positive or negative	board. Van capability		have ample room to deploy a
impact on your cruise planning and work at	viewed as positive.		mooring. The vans provide much
sea?			more space and allow for more
			science to be accomplished while
			al sea.

Question	Summary	Minor points	Debrief #1
Variable Berthing Capacity: The Sharp can	No responder used all	Several say Galley	We have used all the berths with
accommodate science parties ranging from	available berths, i.e.	crowded at mealtimes	needing the conference room. I
14 to 20. By using the conference room as	conference room	when 14 Scientists and 8	don't see a reason to use the
a two person stateroom, 16 can be carried		crew are aboard.	conference room or a berthing v
presently. In the future by using a			
4 person berthing van the total can be 18			
or 20. Did your project have need for the			
full berthing capacity of Sharp, and what do			
you see as the benefits and drawbacks to			
the approaches available on Sharp?			
Dynamic Positioning: . How important was	Half say used and DP works	No one commented about	We have used the DP to make s
the DP system to your work? How well did	well half did not use	DP noise	that our mooring is placed at the
this system operate during your cruise(s)?			same position each year in the
Was noise from the DP system disruptive?			Delaware Bay. It met our
			expectations.

Question	Summary	Minor points	Debrief #1
Other Features: Can you describe other	Positives: Sharp best in	Negatives: 9/16th wire	I believe that the R/V Sharp has
design, outfitting or operational features of	RCRV class, Everyone	light for trawling (3/4	wonderful capabilities for a RCR
the Sharp that had significant positive or	says very capable ship.	better). Net real would be	and exceeds many other, if not a
negative impacts on your work at sea?	Ideal size for coastal/inland	nice. Internet access is	other, vessels in that class. The
Should these features be requirements of	work. Hands free system	poor, limited and costly.	deck and lab (both wet and dry)
other new Regional Class Research	great. Nice	Underway DAS not	space are laid out well and two
Vessels (RCRVs)? Were there any	lounge/conference room	adequate. Stability in	vans can be accommodated eas
important design features missing that		rough seas.	with plenty of deck space still
should be available on RCRVs?			available. The berthing quarters
			also as good if not better than m
			vessels that I have sailed on.

Sharp Debrief summary		
11-Oct-11		
Question	Debrief #2	Debrief #3
Size: Has the overall size of the vessel either enabled or hindered you in meeting the science objectives of your cruise? Please explain how with specific examples.	The Sharp has enabled their science objectives being met. With 24h ops, 13 scientists, and two 12- h watches, the overall size is good and the cost reasonable for the work done. Praised Matt Hawkins and Bill Bryant (sp?). Slight negative is relatively smaller crew than some vessels, i.e., for gear handling.Low freeboard makes for wet deck in rough seas. Shallow draft leads to significant rolling. Trim tabs help.	He says the Sharp is the right size for his work that is mostly at the interface of rivers and the coastal ocean he also said the ship is fairly comfortable offshore. The Ship is headed to the shipyard for some work to stabilize it so not everyone thinks the ride is fairly comfortable
Over-the-Side Handling System: Has this system had a positive impact on your work and if so how? Are there any negative impacts associated with this system?	CTDs made every third station, hence ~ 150/cruise. Handling system viewed positively. Better than without the system. Do not have severe weather in May and June so no comment on system performance in poor conditions. No negative impacts.	He really likes the CTD crane besides allowing deployment of the CTD in rougher weather; it makes the whole operation safer. He says almost everyone he talks to is very happy with the CTD handling system.
Retractable Centerboard with mounted acoustic transducers: Has this had any significant positive or negative impacts on your work?	Not used. Like shallow draft of Sharp. New NOAA Fisheries vessels draw 20' and hence have 'halo effect' with inaccessible areas. Sharp can get to these areas. Can imagine how acoustics would be of value. May soon begin using HABCAM system to video bottom and transmit via fiber optic to ship. If so, a Seabeam capability to map the bottom would be beneficial. Don't know if feasible and, if so, if would use retractable centerboard.	He does not use this feature so he has no comment.

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Question	Debrief #2	Debrief #3
Acoustically Quiet: Have you noticed any	Not necessary for scallop surveys. However, Sharp	He says the ship really is quiet. He
difference compared to other vessels, and	in noticeably quieter than many other ships, which	doesn't require the quiet but he really
has this had any positive or negative	is viewed favorably. Noted as expensive (15% of	appreciates it.
impacts on your work?	cost of ship) and with real amd significant	
	maintenance costs. Good to have the ship quiet	
	and hence 'fishing capable'. The ship is so quiet	
	that noises not normally heard are heard. Thus, the	
	added stabilizer arms have hydraulic lines which	
	are noisy, due to the use of 90 deg elbows rather	
	than the specified smooth, tapered curves (Vic	
	didn't know if this has yet been corrected).	
Vans and deck space: If you have used	Yes, use a van, and view this positively. Has sink	He also doesn't use vans in his work
the vans, how well did they accommodate	and measuring stations, with electronic equipment	but he did say that there is adequate
your internal space requirements? Did this	(e.g., scales) that transmit to main lab. A real plus	(lots of) deck space and it is clear deck
modularity have a positive or negative	over commercial boats they once used. Second	space even when there are 2-25 foot
impact on your cruise planning and work at	van not used, as would take significant deck space	vans on board. He fills 25-55 gallon
sea?	now used for spare dredge. Two van issues.	drums as part of his work and there is
	Freshwater supply is limited to either, but not both,	still lots of deck space. The multi
	on deck and van use; need more flow. Must put	beam system is housed in a van so
	many computer cables (serial and Ethernet)	when that is used it goes on quickly
	through pass-throughs from van to main lab; would	and everything just plugs in. He also
	be helpful to have semi-permanent connectivity	says the wet lab and the dry lab are
	between van and main lab, precluding stringing	good sized. He compares the deck
	wires every time.	space with the wecoma.

Question	Debrief #2	Debrief #3
Variable Berthing Capacity: The Sharp can	The Sharp sails for them with 22 persons aboard:	They use 13 of the 14 standard bunks
accommodate science parties ranging from	eight crew plus one cook, and 13 NMFS scientists.	when the do their cruises. The Sharp
14 to 20. By using the conference room as	They don't use conference room for berthing but,	has the capability to get something like
a two person stateroom, 16 can be carried	rather, for a dry work (paperwork, I believe) area.	two more spaces by converting
presently. In the future by using a	All rooms with one person always on watch, so no	something else. Then they can also
4 person berthing van the total can be 18	more than one person at a time in rooms, generally.	add a bunk van (max capacity is 18
or 20. Did your project have need for the	Can be crowded at mealtime, but tolerable. Lauded	scientists). He says the ship works
full berthing capacity of Sharp, and what do	single cook – excellent food.	well with 13 or 14 scientists but the
you see as the benefits and drawbacks to		single galley table only has 10 seats so
the approaches available on Sharp?		mealtimes become a little conjested.
Dynamic Positioning: . How important was	Don't use it, save perhaps for CTDs (uncertain).	They put pumps overboard and they
the DP system to your work? How well did		need to stay on station for 20 min or
this system operate during your cruise(s)?		so. Usually the boat driver can hold
Was noise from the DP system disruptive?		station, but when the get in the high
		tidal current areas they use the DP.
		This feature is very nice when they
		need to be perpendicular to the
		currents. He thinks the DP works well.

Question	Debrief #2	Debrief #3
Other Features: Can you describe other	Wire (9/16th) a bit light for dredge; minor issue.	He says the sharp is a very cable ship
design, outfitting or operational features of	Fishing boats use 1" wire; ³ / ₄ " would suffice.	and everyone feels that way. However
the Sharp that had significant positive or		they are comparing to their previous
negative impacts on your work at sea?	Net reel would be nice to have.	ship the Cape Henlopen. He thinks
Should these features be requirements of		this ship comparable to some of the
other new Regional Class Research	Endurance is good: 12-14d cruises. Adequate deck	other Intermediate Class UNOLS
vessels (RCRVS)? Were there any	and lab space, and good support at sea and	snips. He feels this is the ideal size for
should be available on RCRVs?	ashore.	people have complained about stability
	NOAA has on its ships 24/7 internet; increasingly	but he doesn't think this is an issue.
	useful, if not necessary, for real-time data transfer	He thinks that 85% of the users do
	ashore for decision making in management. Sharp	water column work and all think the
	internet access poor: one computer on bridge,	hands free CTD is great. Overall he
	shared with crew and costly. This, I (Dave) thinks is	really likes this ship.
	a fleet-wide issue, not only the Sharp. FIC should	
	de better re connectivity	
	do beller re connectivity.	
	The Sharp's underway data acquisition system	
	could be better. Again, this may be a fleet-wide	
	issue, but may also be unique to these users.	
	Would like trawl winch data logged by data	
	acquisition system. Output from Sharp's data	
	acquisition system difficult to access.	
	May begin habitat mapping using HABCAM and	
	scallop trawl sequentially on some stations. Hence,	
	both fiber optic (large bending radius) and wire rope	
	(smaller bending radius) with separate sheaves (app	

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Question	Dahirof #4
Size: Has the overall size of the vessel either enabled or hindered you in meeting the science objectives of your cruise? Please explain how with specific examples.	Depirer #4 Sharp is just about right for what we do. It is comfortable and safer than Cape Henlopen. Van space used heavily.
Over-the-Side Handling System: Has this system had a positive impact on your work and if so how? Are there any negative impacts associated with this system?	The handling system is great. At first it took a little while for the crew to get used to using it. This is past now. The system is reliable but a little overkill in terms of roll compensation
Retractable Centerboard with mounted acoustic transducers: Has this had any significant positive or negative impacts on your work?	Do not use

Question	Debiref #4
Acoustically Quiet: Have you noticed any	It is noticeable that Sharp is
difference compared to other vessels, and	quieter. This has a positive
has this had any positive or negative	impact when working long
impacts on your work?	hours.
Vans and deck space: If you have used the vans, how well did they accommodate your internal space requirements? Did this modularity have a positive or negative impact on your cruise planning and work at sea?	We have used two configurations- one radioisotope van or two vans (isotope and general use). Deck space was not limiting and was used for incubators. Stern operations were not conducted. Breezeway is a good feature. It is nice for changing shoes when entering the isotope van. It is well lit when deck lights are off

Question	Debiref #4
Variable Berthing Capacity: The Sharp can	Never maxed out berthing.
accommodate science parties ranging from	14 is plenty
14 to 20. By using the conference room as	
a two person stateroom, 16 can be carried	
presently. In the future by using a	
4 person berthing van the total can be 18	
or 20. Did your project have need for the	
full berthing capacity of Sharp, and what do	
you see as the benefits and drawbacks to	
the approaches available on Sharp?	
Dynamic Positioning: How important was	Not important for our work
the DP system to your work? How well did	Not used
this system operate during your cruise(s)?	
Was noise from the DP system disruptive?	

Question	Debiref #4
Other Features: Can you describe other	Features of Sharp that
design, outfitting or operational features of	standout are its relative
the Sharp that had significant positive or	proportions of wet and dry
negative impacts on your work at sea?	labs, berthing space is right,
Should these features be requirements of	galley is a little small, nice
other new Regional Class Research	lounge/conference room.
important design features missing that	accessible and contrally
should be available on RCRVs?	located Short distance and
	direct connections between
	labs