

## New Procurements for Langseth

<u>Equipment</u>	Cost			
X-Band RADAR	\$34,400			
Stern Capstans	\$44,250			
Magnetometer Winch	\$10,529			
Installation cost for Fleet Broadband	\$5,000			
Propulsion Pitch Control Up-grade	\$350,000			
Steering Control Up-grade	\$158,800			
Engine Control Up-grade	\$213,159			
Compressor Reliability and Air Management	\$96,020			
Shaft Seal Upgrade	\$90,000			
Oceanographic Winch Systems Evaluation	\$74,802			
Bow Thruster Up-grade/Exchange	\$151,300			
Used Streamer Purchase	\$135,000			
Near Field Sound Source Hydrophones	\$11,200			
Sound Source Umbilicals x 6	\$427,592			
MCS Digital Air Management Manifolds	\$129,500			
MCS Streamer Level Device Upgrade	\$232,645			
Vane Tow Wire	\$110,617			
	\$2.274.814			

## Panel Comments

- "The proposal requests a significant amount of funding to purchase equipment and instrumentation. Given that the RV Marcus Langseth is a national facility, it is strongly suggested that the proponents at Lamont Doherty Earth Observatory consult with the vessel's oversight committee and come up with a multi-year plan that prioritizes the instrumentation/equipment needs of the scientific community for the vessel. Planning, input and support from the community is critical to justify this and future requests and needs to be included in future proposals."
- "At the very least, it should have been evaluated by the MLSOC before submittal."
- "In summary, this proposal should have been reviewed by the Langseth oversight committee."
- "The proponents need to involve the oversight committee to ensure that important science needs justify the requests."

## Langseth as a General Purpose Oceanographic Vessel

- "not one nickel to make Langseth a multipurpose vessell"
- "The Langseth is not a general purpose vessel and never will be. She is a highly specialized MG&G asset and to use her otherwise would be a waste."
- "To use this vessel as a general oceanographic ship would be a waste of resources."
- "Lots of funding is being poured into the LANGSETH but the program seems to be lacking any sort of order."
- "The proposed upgrades to the Langseth are both extensive and costly. If NSF is committed to supporting this vessel, these upgrades are necessary. Bringing the capabilities up to UNOLS standards for a multipurpose oceanographic vessel are important, as the trend now is for the Langseth to support multidisciplinary programs in addition to MCS operations. The proposed upgrades will allow the vessel more capabilities, as well as increase safety during MCS operations."

			LANGS	ETH COSTS							
R/V LANGSETH	2009	2010 (proposed)	% Delta								
Ship day rate	\$31,000	\$40,522	31%								
2009 Tech day rate	<u> </u>	. ,									
Basic Services	\$2,700	\$3,500	30%								
Source Only	\$10,000	\$12,000	20%								
2D	\$16,000	\$16,750	5%								
3D	\$34,320	\$34,320	0%								
2009 Total day rate	uncludes ship da	ay rate plus Tech	basic service rate	e nius specializa	ed service rate						
Basic Services	\$33,700	\$44,022	31%								
Source Only	\$49.656	\$62,322	26%								
2D	\$55,656	\$67,072	21%								
3D	\$73,976	\$84,642	14%								
30	φ13,910	φ04,042	1476								
Marine Mammal Mitigation	<u> </u>										
day rate (artificial)	\$5,956	\$6,300	6%								
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Examples: Mutter 2008 3D cruise	Days 57	<b>Ship</b> \$1,767,000	<b>Te ch</b> \$2,110,140	Mammal \$339,492	<b>Total</b> \$4,216,632	ipoludes 45 -1-		omments	o no transit		-
						includes 15 days shakedown, 42 day cruise, no transit					
Holbrook 2009 2D cruise McGuire 2009 Sourse Only cruise	59 19	\$1,829,000 \$589,000	\$1,103,300 \$241,300	\$351,404 \$113,164	\$3,283,704 \$943,464	includes 2 cruisess (27 and 24 days) and transit (8)  19 day cruise, no transit					<b>.</b>
-											
Bangs 2010 3D cruise	34	\$1,377,748	\$1,285,880	\$214,200	\$2,877,862	34 day cruise, no transit					
Estimated Transit 2010 (assumes											
basic services only)	53	\$2,147,666	\$185,500	0	\$2,333,166						
Sacre Co. Noce Crity)		Ψ2, 117,000	ψ100,000	ŭ	<b>\$2,000,100</b>						
Comparison with EWING											
	Ewing' 05	Langseth '09	Langseth '10	% delta							
Ship day rate	\$18,500	\$31,000	\$40,522	119%							
Tech day rate	, ,	,, 0	,	11270			1				
Basic Services	\$3,400	\$2,700	\$3,500	3%							
Source Only	\$5,500	\$10,000	\$12,000	118%							
2D MCS	\$13,000	\$16,000	\$16,750	29%							
Marine Mammal Mitigation	\$5,255	\$5,956	\$6,300	20%							
2D Seismic Comparison	Days	Ship	Tech	Mammal	Total	Delta	% increase				
Holbrook '08 on Ewing in '05	59	\$1,091,500	\$967,600	\$310,045	\$2,369,145						
Holbrook '08 on Langseth in '08	59	\$1,829,000	\$1,103,300	\$351,404	\$3,283,704	\$1,195,222	50%	1			
Holbrook '08 on Langseth in '09	59	\$2,597,298	\$1,194,750	\$371,700	\$4,163,748	\$880,044	27%				
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