

Midlife Refit of the R/V CAPE HATTERAS

presented by

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Midlife Refit Proposal to the
National Science Foundation
For the R/V CAPE HATTERAS

SUMMARY OF ITEMS TO BE COMPLETED

ITEM NUMBER	DESCRIPTION OF ITEM	COST
1 Modification	Relocate aft crane from main deck to 01 winch deck	12,500
2 Modification	Configure Engineer's storeroom into 2-person science cabin	45,000
3 Modification	Relocate hydro winch hydraulics to main deck	3,000
4 Renovation	Replace all interior fresh water piping and add recirculating line	35,000
5 Renovation	Replace all interior gray water and vent piping above lower deck	70,000
6 Renovation	Remove and replace all interior Torginol decking	50,000
7 Renovation	Replace existing HVAC/boiler system with new HVAC/heaters	50,000
8 Renovation	Replace all interior HVAC ductwork	50,000
9 Renovation	Remove existing boiler heating system and all associated piping	3,500
10 Renovation	Renovate all science cabins	42,000
11 Renovation	Renovate all crew cabins	49,000
12 Renovation	Renovate Main Lab – replace counters with island arrangement	40,000
13 Renovation	Remove and replace all interior bulkhead paneling	50,000
14 Renovation	Remove and replace all interior overhead paneling	50,000
15 Renovation	Renovate Mess Area – add table and rearrange configuration	30,000
16 Renovation	Replace Galley chiller/freezer units with hermetically-sealed units	30,000
17 Renovation	Renovate Wet Lab	10,000
18 Renovation	Replace existing engine/throttle controls	25,000
19 Renovation	Replace existing helm controls, autopilot, and gyro compasses	55,000
20 Renovation	Replace Pilothouse windshield wipers and clear view windows	10,000
21 Renovation	Renovate Galley	100,000
22 Renovation	Renovate Galley chiller/freezer	50,000
23 Renovation	Replace manual searchlights with remote-controlled units	3,000
24 Renovation	Replace and upgrade ship's intercom system	20,000
25 Renovation	Remove, strip, repaint, and reinstall all interior ladders	12,000
26 Renovation	Strip and repaint all interior painted bulkheads	10,000
27 Renovation	Sandblast and repaint exterior – mast to keel, as necessary	120,000
28 Renovation	Replace magnetic compass and binnacle	5,000
29 Modification	Network all cabins and labs with telecommunication outlets	20,000
	GRAND TOTAL OF ALL ITEMS, #1 - 29:	\$1,050,000

NOTE: ITEMS ARE LISTED IN ORDER OF PRIORITY AND ARE BASED ON NEED TO MAINTAIN THE VESSEL'S SCIENTIFIC CAPABILITY, BOTH DIRECTLY AND INDIRECTLY.

After Deck (Work Deck)



↑
Before

After →



After Deck and ladder to the 01 Deck



↑
Before

After →



01 Deck



↑
Before

After →



New Interiors

Cabin →

Mess Deck ↓



R/V CAPE HATTERAS

