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2010 PolarTREC International Continental Shelf Survey

Mr. Schmoker / US Coast Guard Cutter Healy

August 2 – September 6 2010





To post a question, please link to:

<u>www.polartrec.com/expeditions/international-continental-shelf-survey</u> Then click "**Ask The Team**" and finally, "**New Topic**"

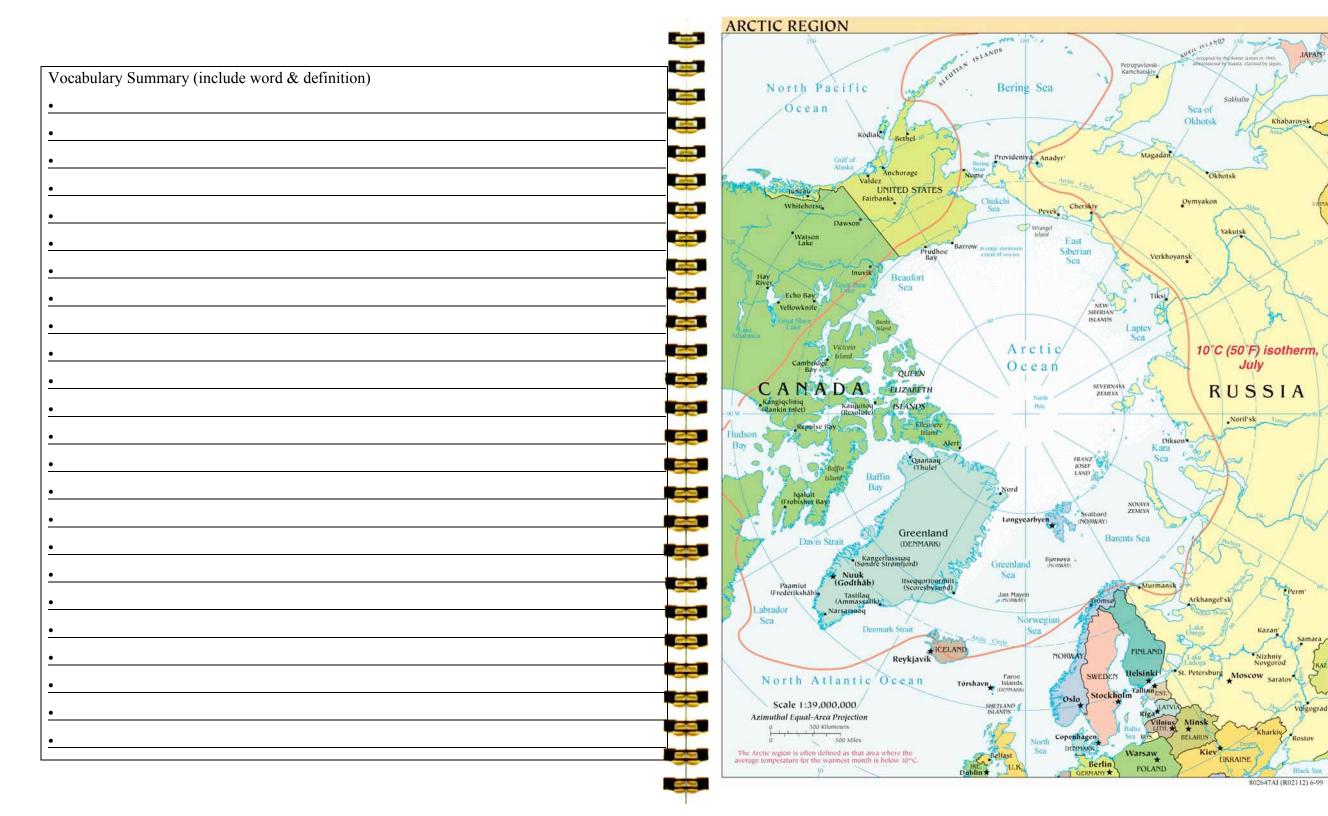
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## **CGC Healy Ship's Characteristics**

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Length, Overall	420'0" (128 meters)
Beam, Maximum	82'0" (25 meters)
Draft, Full Load	29'3" (8.9 meters)
Displacement, Full Load	16,000 LT ( 35,840,000 lbs.)
Propulsion	Diesel Electric, AC/AC Cycloconvertor
Generating Plant & Drive Motors	4 Sultzer 12Z AU40S, 2 AC Synchronous, 11.2 MW
Shaft Horsepower	30,000 Max HP
Propellers	2 Fixed Pitch, 4 Bladed
Auxiliary Generator	EMD 16-645F7B, 2400kW
Fuel Capacity	1,220,915 GAL (4,621,000 liters)
Cruising Speed	12 knots @ 105 RPM
Max Speed	17 knots @ 147 RPM
Icebreaking Capability	4.5 ft @ 3 knots (continuous) 8 ft (2.44 m) Backing and Ramming
Science Labs	Main, Bio-Chemical, Electronics, Meteorological, Photography
Accommodations	19 Officer, 12 CPO, 54 Enlisted, 35 Scientists, 15 Surge, 2 Visitors

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Nautical Terms:

Aboard: On a ship	Aft: Towards the stern
Ballast: Weights in the bottom of the ship	Beam: Width of ship
Bearing: Compass direction	Bow: Front of ship
Bridge: Command center of ship	Bulkhead: Inner wall of ship
Buoy: Floating marker	Cabin: Room in the ship
Cable: Strong wire rope	Cruise: A trip at sea
Course: Direction ship is travelling	Cutter: USCG vessel over 65 feet long
Debark: Leave the ship	Deck: Flat surface on ship, like a floor
Fore: Towards the bow	Galley: Ship's kitchen
Gangway: Doorway into ship	Gangplank: Walkway onto ship
Hangar: Large room for aircraft	GPS: Global Positioning System
Head: Bathroom on ship	Hatch: Opening in a deck
Hull: Shell and framework of ship	Helm: Device to steer ship, (e.g. wheel)
Knot: Nautical mile per hour (1.15 mph)	Keel: Bottom centerline of ship
Port: Left side when facing forward	Leeward: Downwind from ship
Radar: Radio Detection and Ranging	Porthole: Small round window in ship
Scuppers: Drains in decks	Roll: Side-to-side movement of ship
Sounding: Taking depth measurements	Sonar: Electronic system to measure
	depth by timing sound pulse echoes
Stern: Back end of ship	Starboard: Right side if facing forward
Swell: Open ocean waves	Superstructure: Upper portions of ship
Wake: Turbulent water behind ship	USCG: United States Coast Guard
Waterline: Level where water ends on hull	Watch: A work shift on duty
Windward: Upwind from ship	Winch: Device to reel cable in or out
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