

## Transformation of the CCGS Martha L. Black Into a Research Vessel



Originally designed as a support icebreaker (Arctic II) / buoy tender, the Martha L. Black was modified to act as a research vessel. Cabins were reassigned as laboratories, containers were modified into laboratories. An A-frame was added as well as winches for manipulating scientific equipments. Finally a retractable transducer housing of 5m length was engineered and installed.

### Principal Particulars

Length over all .....	83.0m	272.3ft
Breadth over all.....	16.0m	52.5ft
Draft (maximum).....	5.9m	19.4ft
Installed power (diesel electric) .....	3x5250kW	3x7050hp
Propulsion .....	Fixed pitched propellers	
Total berthed capacity (crew and passenger) .....	26	
Fuel capacity.....	1086m <sup>3</sup>	38400ft <sup>3</sup>
Maximum speed .....	15.1 knots	
Cruising speed.....	14 knots	
Cruising range .....	14500 nm	
Launched .....	1986	