

APPENDIX IX

Polar-Class Icebreaker Long Range Schedule

Basic concepts applied to the schedule:

#1: One operational polar icebreaker at all times.

#2: A ship available for Deep Freeze every year.

#3: One month ready-for-sea period prior to deployments.

There are other important precepts, including scheduling time for training & maintenance, and designating Deep Freeze and Canadian Arctic resupply backup vessels.

(Note: The Polar Class Icebreaker Operating Schedules for 1995-97 are available from the UNOLS Office.)

USCGC HEALY Update

U.S. Coast Guard Icebreaker USCGC HEALY (WAGB-20)

Length:	420 ft./ 128 M
Beam:	82 ft./ 25 M
Max Draft:	29.25 ft.
Max Displacement:	16,400 tons
Shaft HP:	40,000 HP Installed/ 4 x 10,000 HP Sulzer Engines
Bowthruster:	2200 HP/ 1640 KW
Propulsion:	Diesel-electric
Screws:	2 FP, 4 bl. 16ft/4.8 M
Economic Speed:	12.5 KTS
Max Speed:	17 KTS
Endurance:	65-120 days
Range:	16,000-30,000 NM +
Provisioning:	65-180 days
Ice (@ 3 kts):	4.5 ft.+ (1.4 M)
Fuel, Diesel:	1,028,785 gals.
Fantail work space:	3,000 sq.ft.
Elect/computer lab:	600 sq.ft.
Bio/chem lab:	300 sq.ft.
Climate cont, rooms:	200 sq.ft.

Scientific freezer:	200 sq.ft.
Indoor Staging area:	300 sq.ft.
Vans:	(8) 20' CONEX
C/T winch (1):	15,000 M 9/16"
	10,000 M 0.680" EM
Oceano winch(s):	10,000 M 1/4" wire
	10,000 M 3/22" EM
Science Comms. Network	
Science data Network	
Main lab:	2000+ sq.ft.
Wet lab:	400 sq.ft.

**U.S. Coast Guard Icebreaker
USCGC HEALY (WAGB-20)
Major Changes, Updates:**

Reconfigured science suite (as requested in the October 1993 meeting in New Orleans) was adjudicated and accepted (in principal) by the shipyard.

A Sea Beam Multi-Beam system was added.

Main Propulsion Control & Monitoring System (MPCMS) awarded to CEGELEC.

Science Data Network (SDN) awarded to EDI.

Integrated Bridge System (MPCMS, SDN, Dynamic Positioning System) awarded to Sperry.

Visits to the science community (USGS, U of Wash., CRREL, WHOI) are ongoing, until a standing advisory . group can be formed.

Mar. 1996:	Start (modular) assembly.
Sep. 1996:	Ceremonial Keel Laying.
Summer 1997:	Initial crew training begins.
July 1997:	Ship Launching.
Jan. 1998:	Builder's dock trials.
Feb. 1998:	Builder's sea trials.
Feb. 1998:	Inclining tests.
Apr. 1998:	Acceptance trials.
June 1998:	Ship delivery.