

APPENDIX VIII

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.)

U.S. COAST GUARD ICE OPERATIONS

OVERVIEW

Captain Alan Summy, USCG
Chief, Ice Operations Division
Office of Navigation Safety and Waterway Service
U.S. Coast Guard Headquarters

FUNDING

The tentative FY96 Congressional budget provides 100% of Operating, Maintenance, Acquisition and Construction funds for Polar Icebreakers as requested by the Coast Guard.

MISSIONS

- No science missions have been requested for 1995 or 1996
- A North Water Polyanya missions has been proposed for 20 July - 12 September 1997

POLAR ICE OPERATIONS

Figure of "[Average Number of Polar Days Per Year Per Ship](#)"

COMMANDING OFFICERS

POLAR SEA: Captain Jeff Garrett relieved Captain Lawson Brigham (retired).

POLAR STAR: Captain Carl Swedberg relieved Captain Bob Parsons (retired)

MCAM and RIP Schedules

POLAR SEA: MCAM begins October 1995 and will complete April 1996

POLAR STAR: MCAM completed and tested in western Arctic sea trails

CASPER Compliance

- Ships grandfathered if launched prior to 31 December 1998
- USCG/CCG agreement to change implementation verbage to meet IMO standards

Arctic Harmonization

- Ship Construction standards
- Pilot qualifications
- Safety equipment

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 322" 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 CEGELEEC.

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.