

US COAST GUARD POLAR CLASS ICEBREAKERS

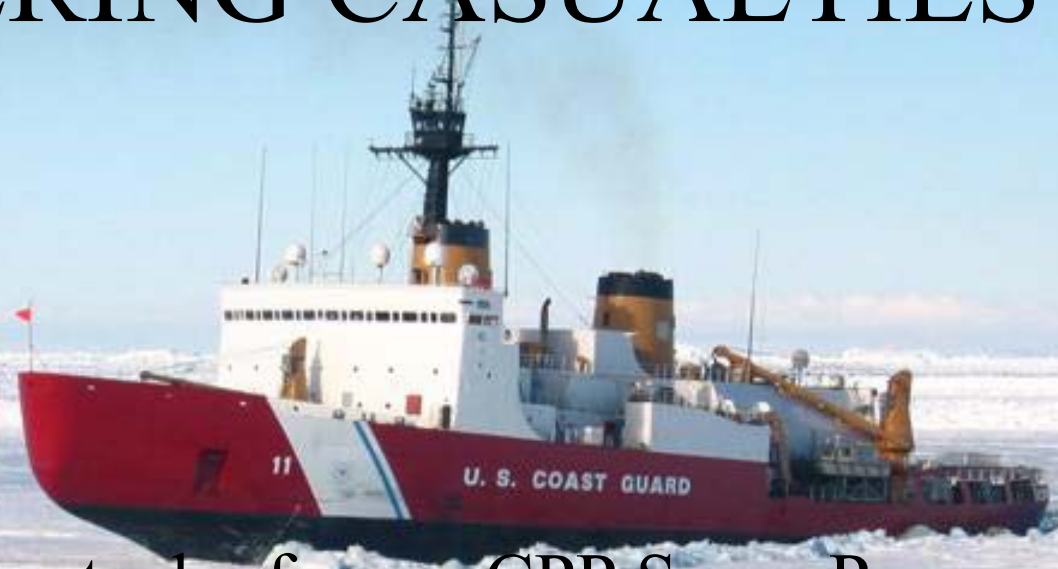
AICC MEETING MARCH 2004



DF04 SUMMARY

- Both POLAR STAR and POLAR SEA deployed on Deep Freeze 2004 due to extreme ice conditions in Antarctica
- POLAR STAR was the lead icebreaker and returns OOA 15 April 2004
- POLAR SEA was released early and will return OOA 01 April 2004
- Operationally the mission was highly successful, but significant engineering casualties resulted, though not the usual suspects such as a hubs

ENGINEERING CASUALTIES



- Expended entire stock of spare CPP Servo Pumps
- POLAR STAR: 3A MDE, #2 Boiler, #2 SSDG, Port CPP High Metal Content
- POLAR SEA: Main Propulsion Motors
 - All 3 extremely dirty
 - #2 & #3 show signs of internal shorting > major repairs
 - Repairs are still possible

REVISED REPAIR PLAN

- Polar Phased Maintenance Contract Awarded to Todd Pacific Shipyard
- POLAR STAR:
 - DD to replace props, repair engines & boiler
 - Schedule: Overhauled props on critical path.
 - DD w/major industrial repairs. 19 Apr-27 Aug 04
 - Load bank power plant. September 2004
 - Shakedown, unplanned repairs, load out. Oct 04
 - Underway on DF05. First week November 04

REVISED REPAIR PLAN



- POLAR SEA:

- DS to clean & repair MMs, renew 4 MDE
- DD to repair prop shaft bearing lands and swap prop hubs.

POLAR SLEP STATUS

- Defer status report to OPN



HEALY STATUS

A photograph of the research vessel R/V Healy in a dry dock at night. The ship is illuminated by bright lights, and its name 'HEALY' and the number '20' are visible on the red hull. The ship is positioned in the center of the frame, with various structures and equipment visible on its deck and around the dock. The background shows the interior of the dry dock with various structural elements and lighting.

- Dry Dock 05 Nov 03-03 Feb 04
 - Major Science System Projects:
 - Science Seawater System Redesign
 - Science Sensor Precision Survey
 - Acoustic Systems Maintenance
 - A-Frame Pivot Pin Redesign
 - Science Winch Operation Safety Improvements (Sheave Block Pin & ASW Interlocks, GEM Relocation)
 - Science Winch Info Display on WX Decks
 - DPS Fault Correction & Dedicated Trials
 - POS-MV Precision Heading System
 - CTD Console Relocation