

USCGC HQ Program

AICC Dec 2005



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Objectives

Intended Purpose:

- Program management/funding
- Program future
- Antarctic ice conditions
- Questions



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Polar Icebreaker Management

- NSF FY06 budget authority
- FY06 spend WAGB program issues
- FY06 spend plan not finalized yet
- PSEA repairs for DF07
- Additional maintenance funding for HEALY
- PSTAR standby for DF06, “caretaker” status summer 2006



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U.S. Polar Icebreaker Program Future

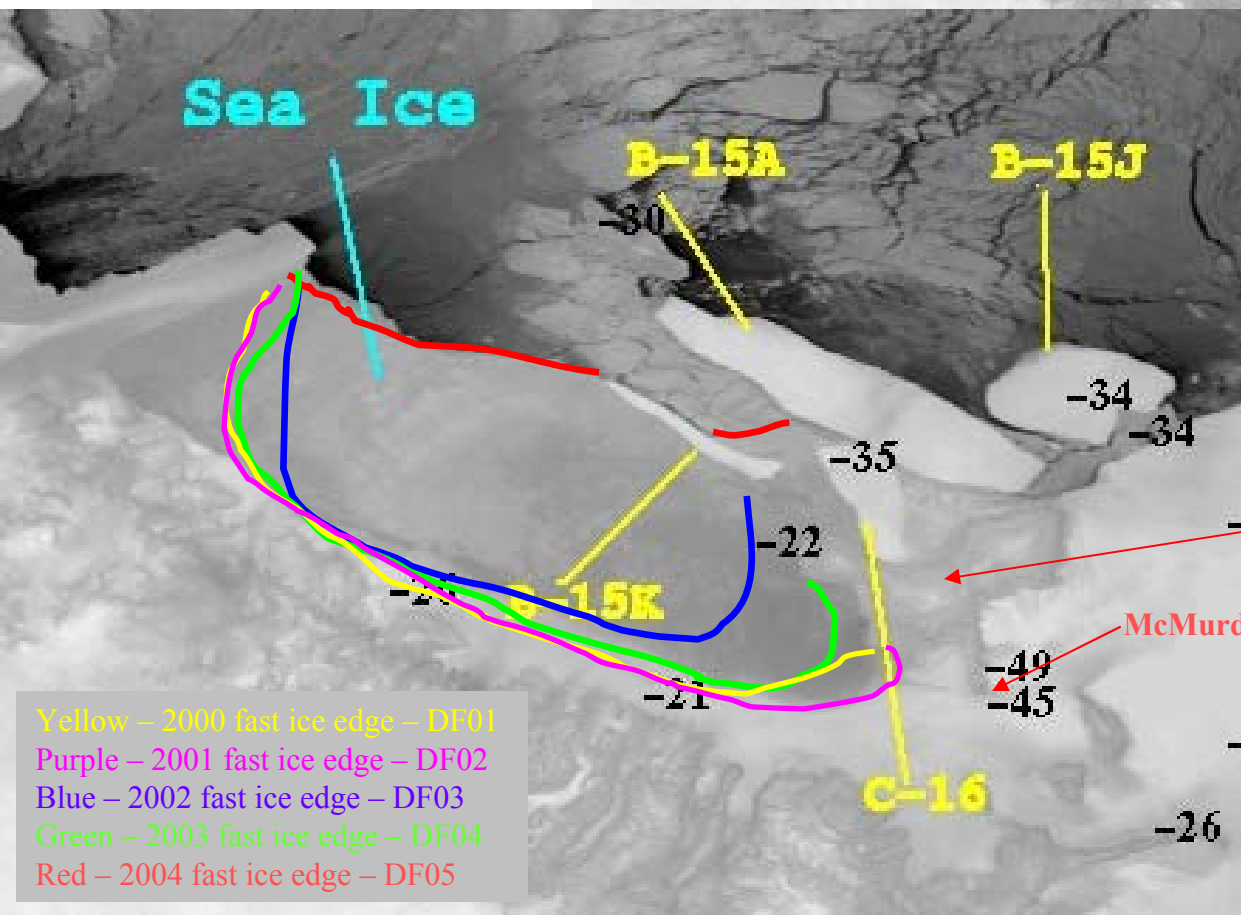
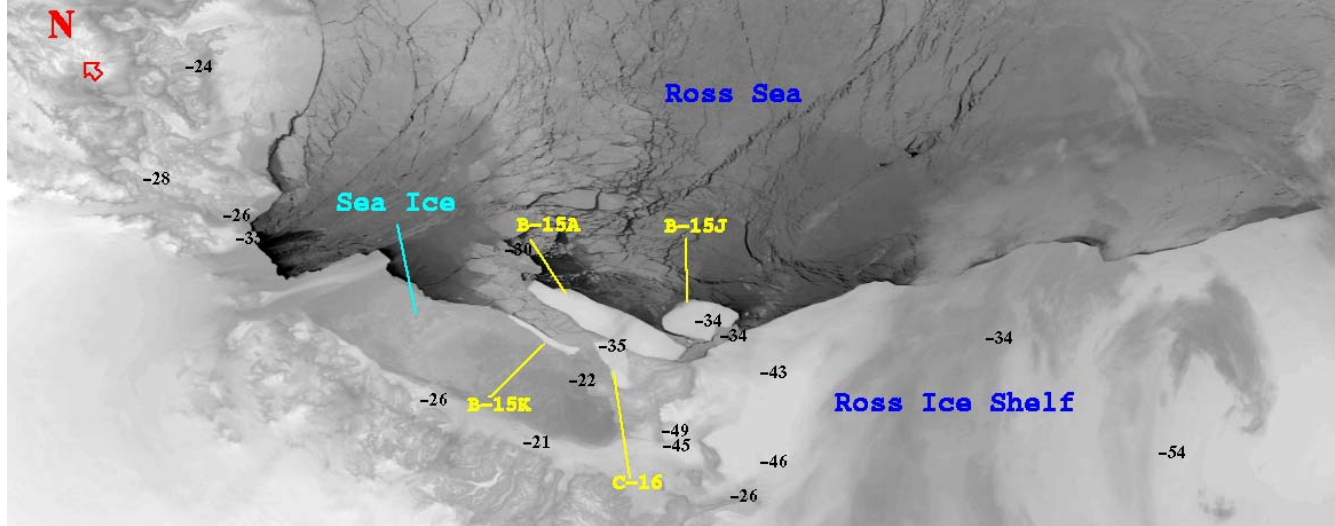
- NAS interim report
 - 5 Recommendations
 - What next? Long-term?
- National Security Presidential Determination
- Budget Authority
- Efficiency alternatives
 - Crewing models – MSC review
 - HEALY training standards
 - HEALY science support



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DF05

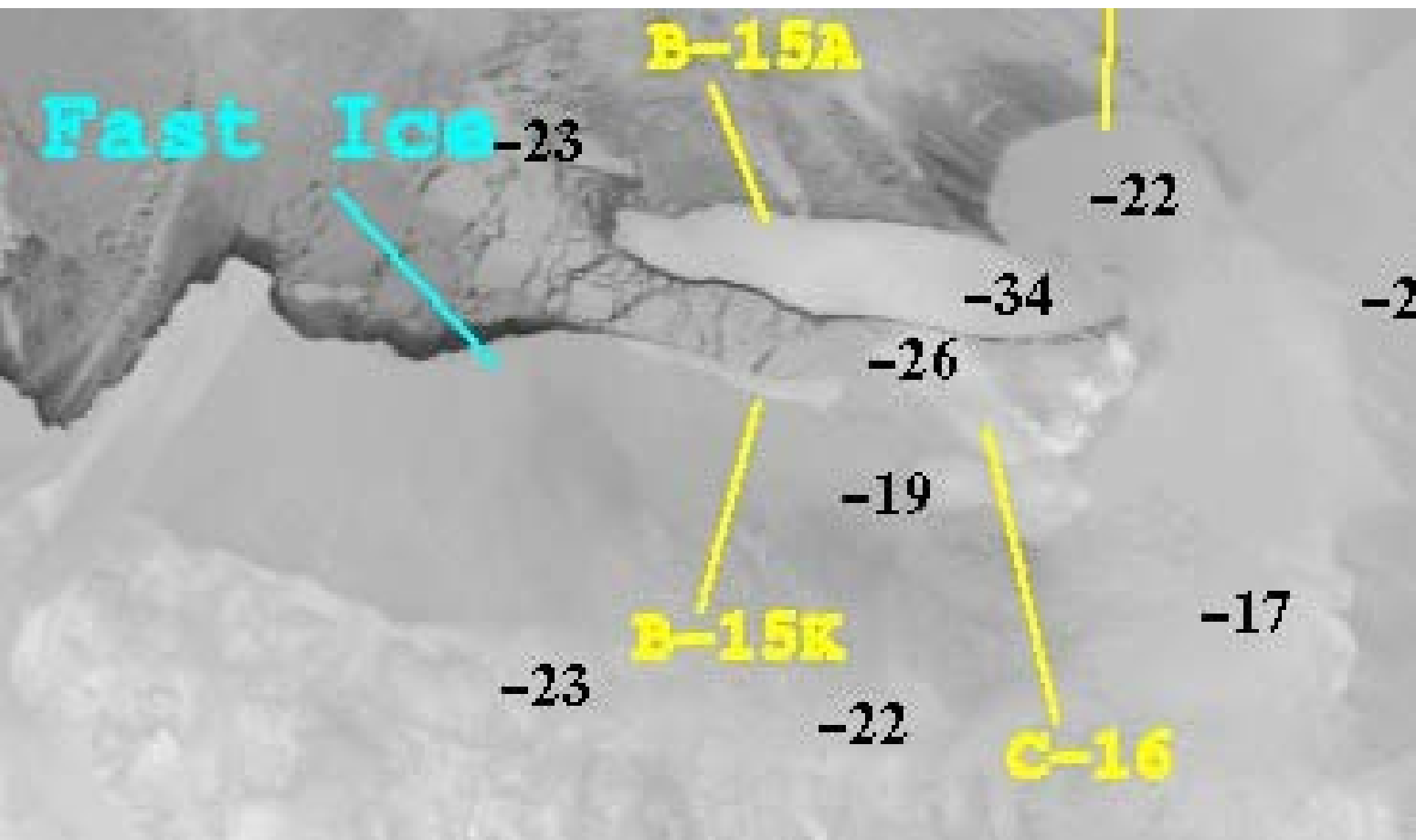
26 Jul 04



Reviewing satellite imagery, McMurdo Sound fast ice froze solid on or about 13 July, 2004

- Yellow – 2000 fast ice edge – DF01
- Purple – 2001 fast ice edge – DF02
- Blue – 2002 fast ice edge – DF03
- Green – 2003 fast ice edge – DF04
- Red – 2004 fast ice edge – DF05

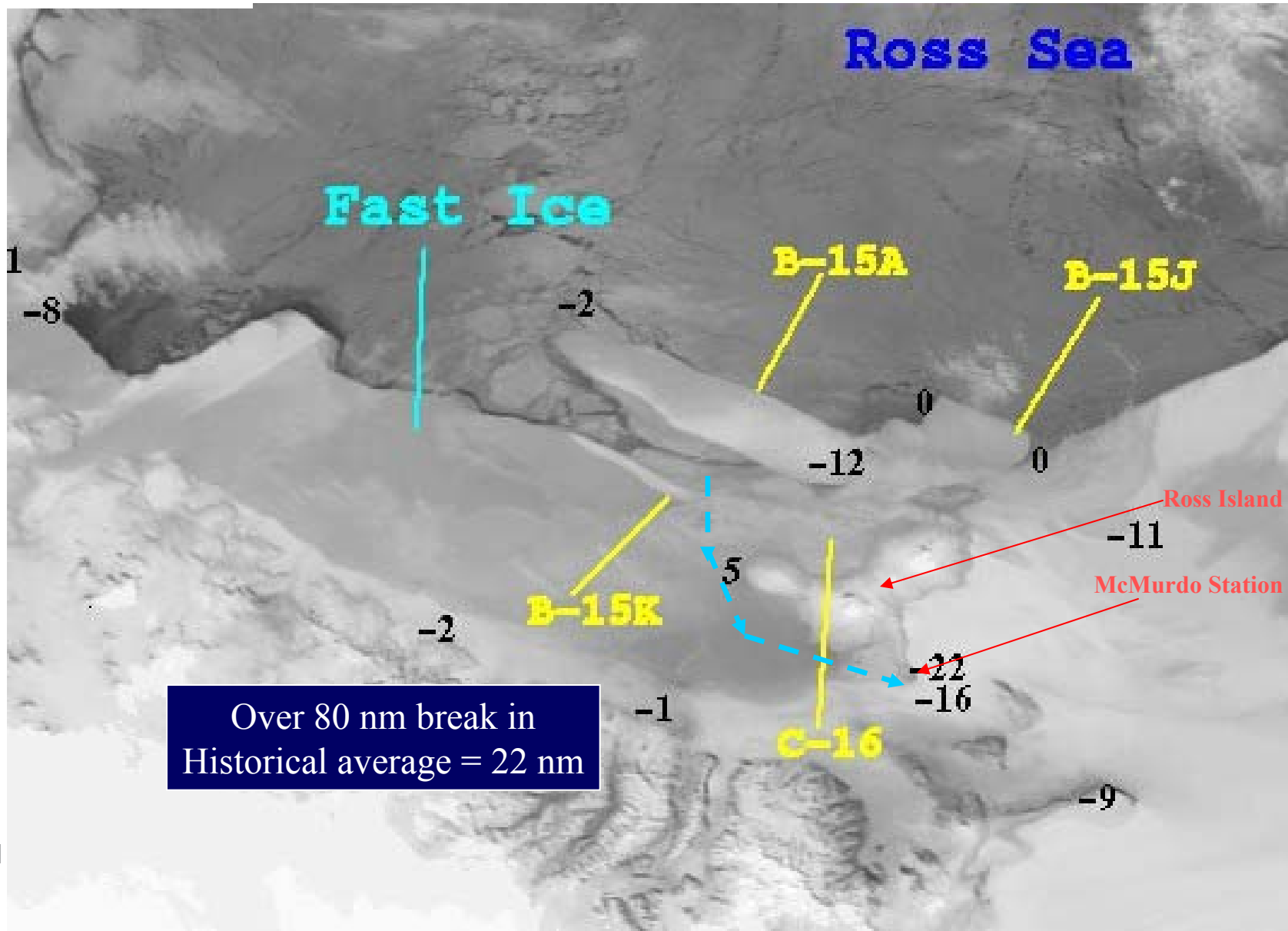
1 Aug 04



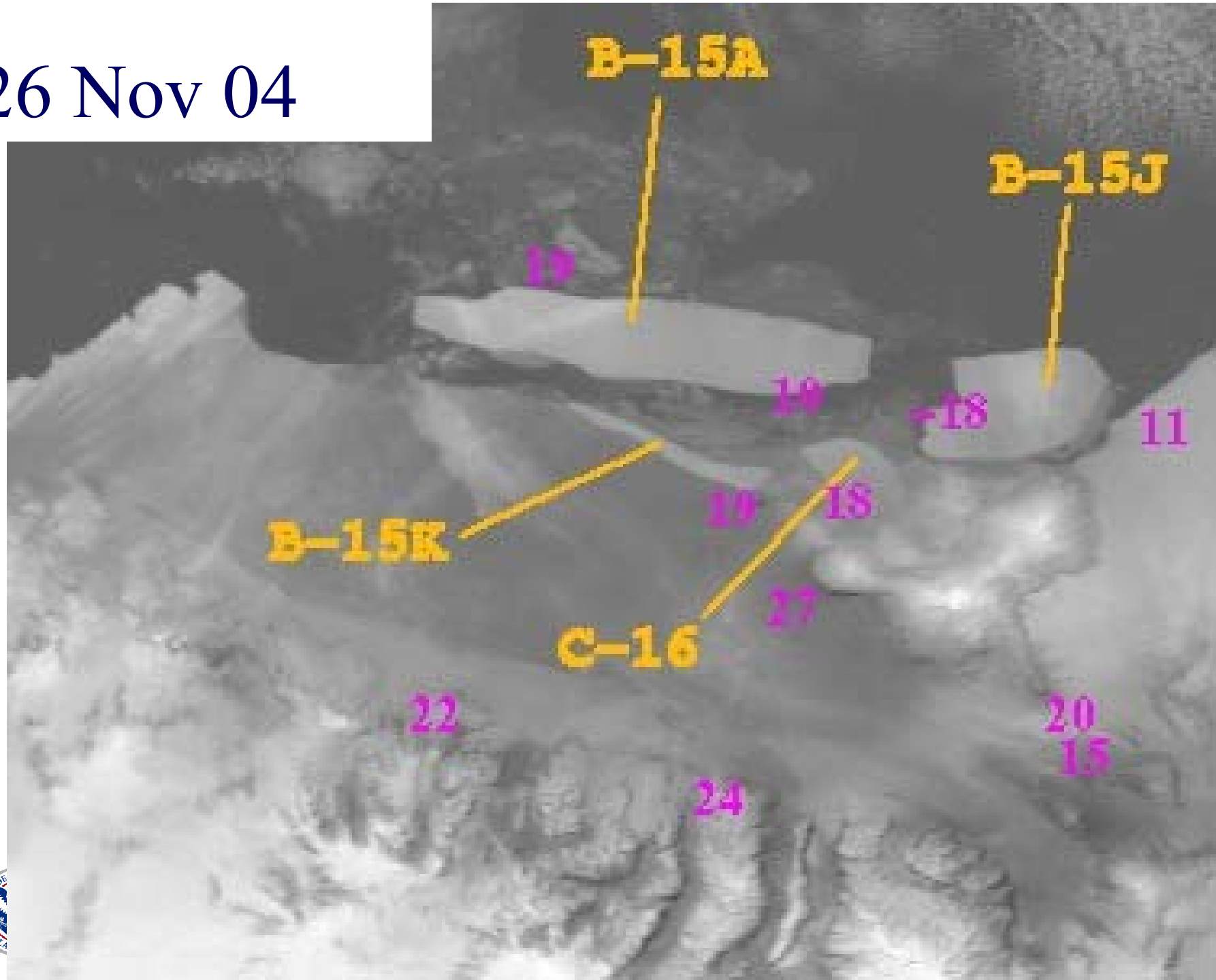
9 Sep 04



27 Oct 04

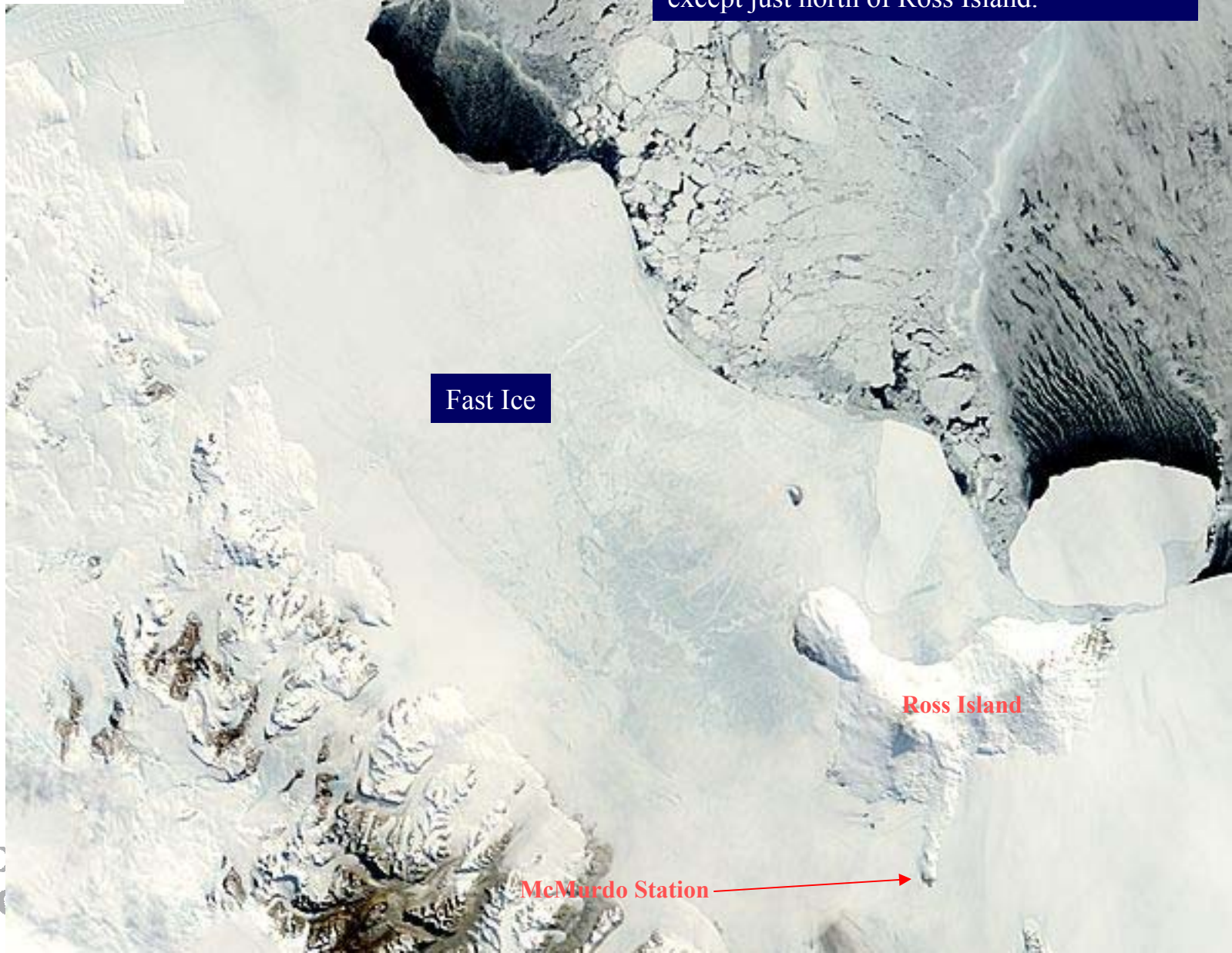


26 Nov 04



25 Oct 05

Fast ice conditions are similar to previous year. Big difference is that this year there are no icebergs holding fast ice in place except just north of Ross Island.



Fast Ice

Ross Island

McMurdo Station



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5 Dec 05



Fast Ice

Ross Island

Average Fast Ice edge
22 nm fm McMurdo

McMurdo Station

Fast ice conditions are similar to previous year.

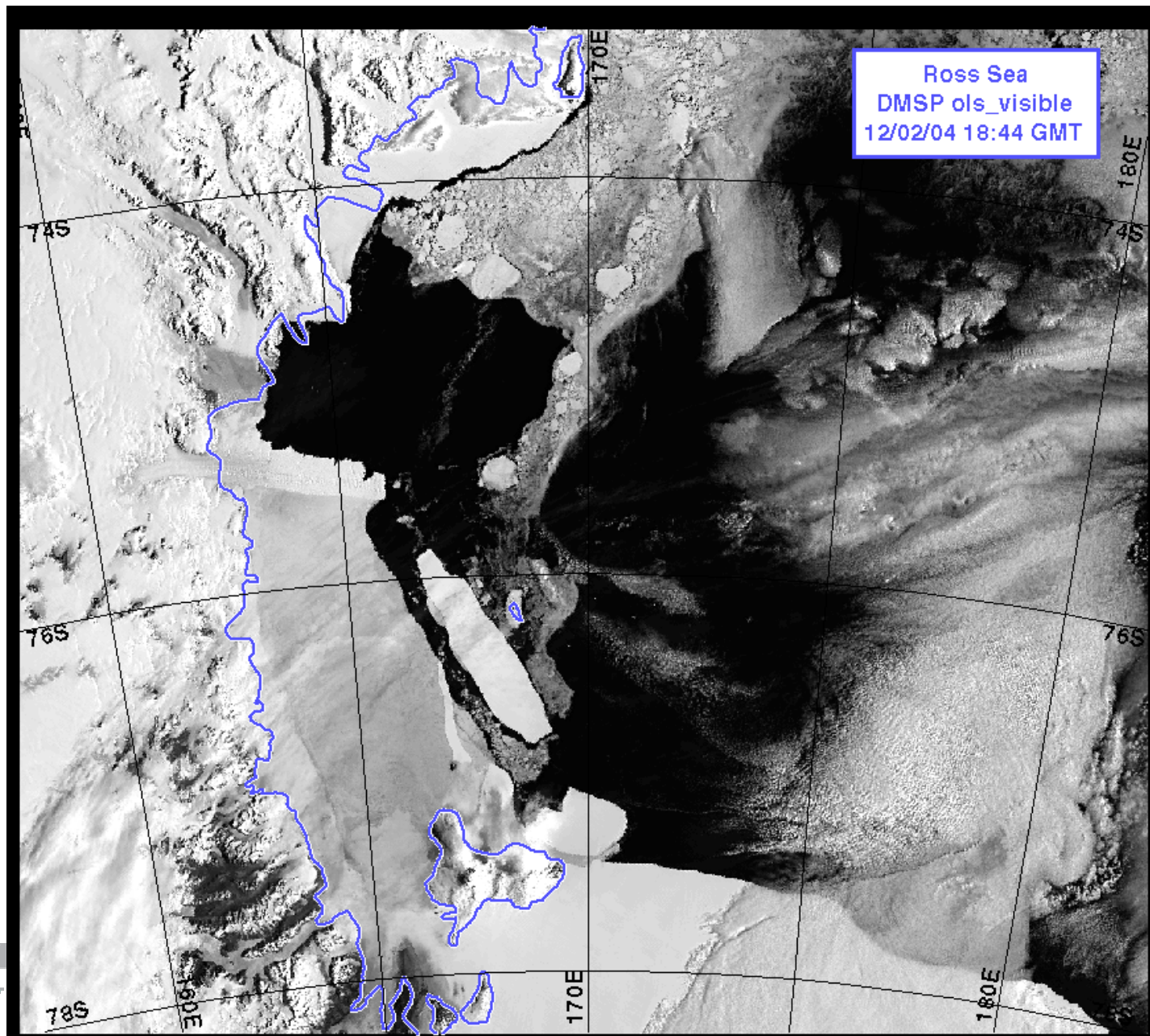
Sea ice (or lack thereof) NE of McMurdo Sound indicate temps are relatively warm

There has been a lack of strong southerly wind events which typically breaks up portions of fast ice and blows them north.



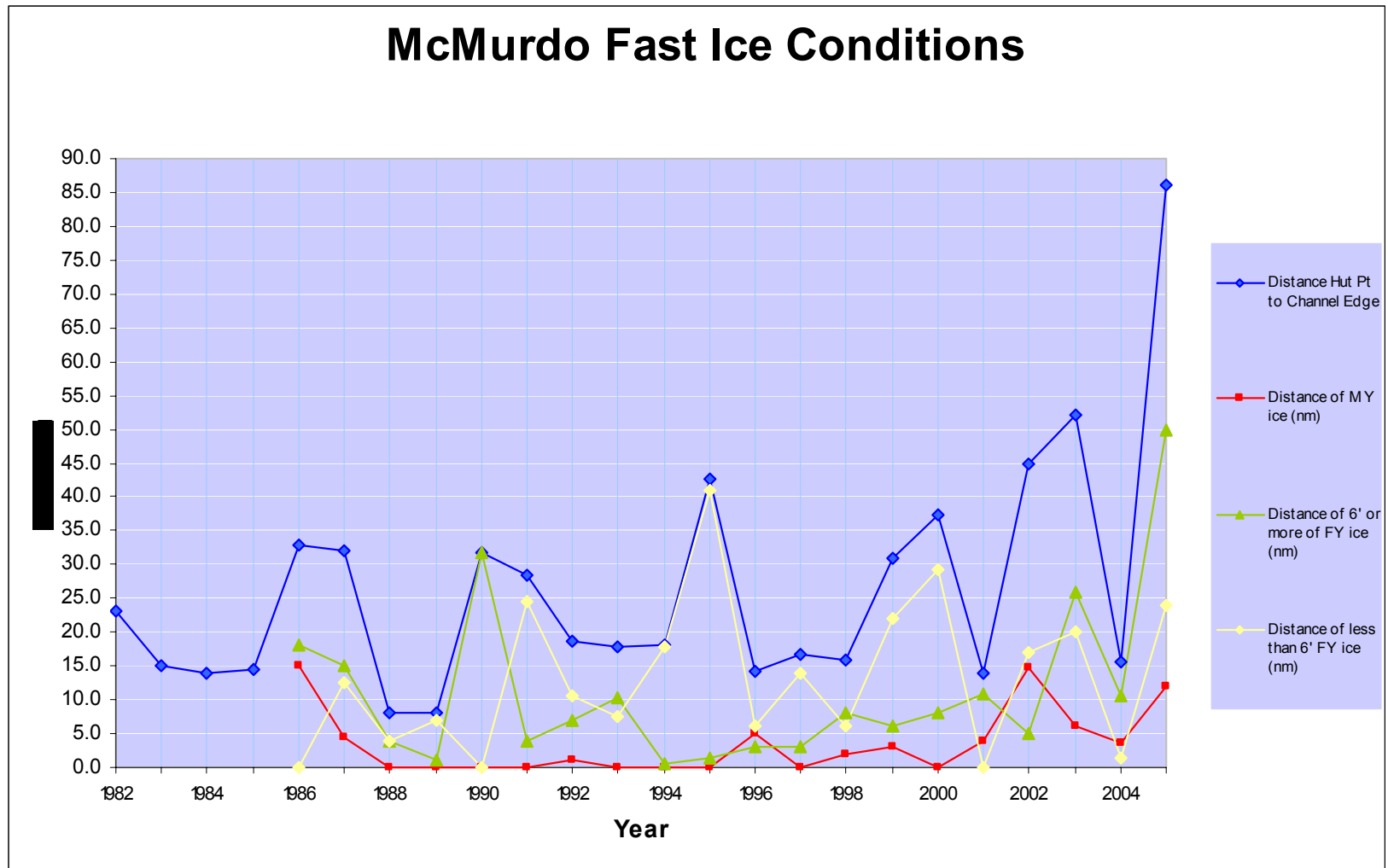
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2 Dec 04



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McMurdo Sound Fast Ice



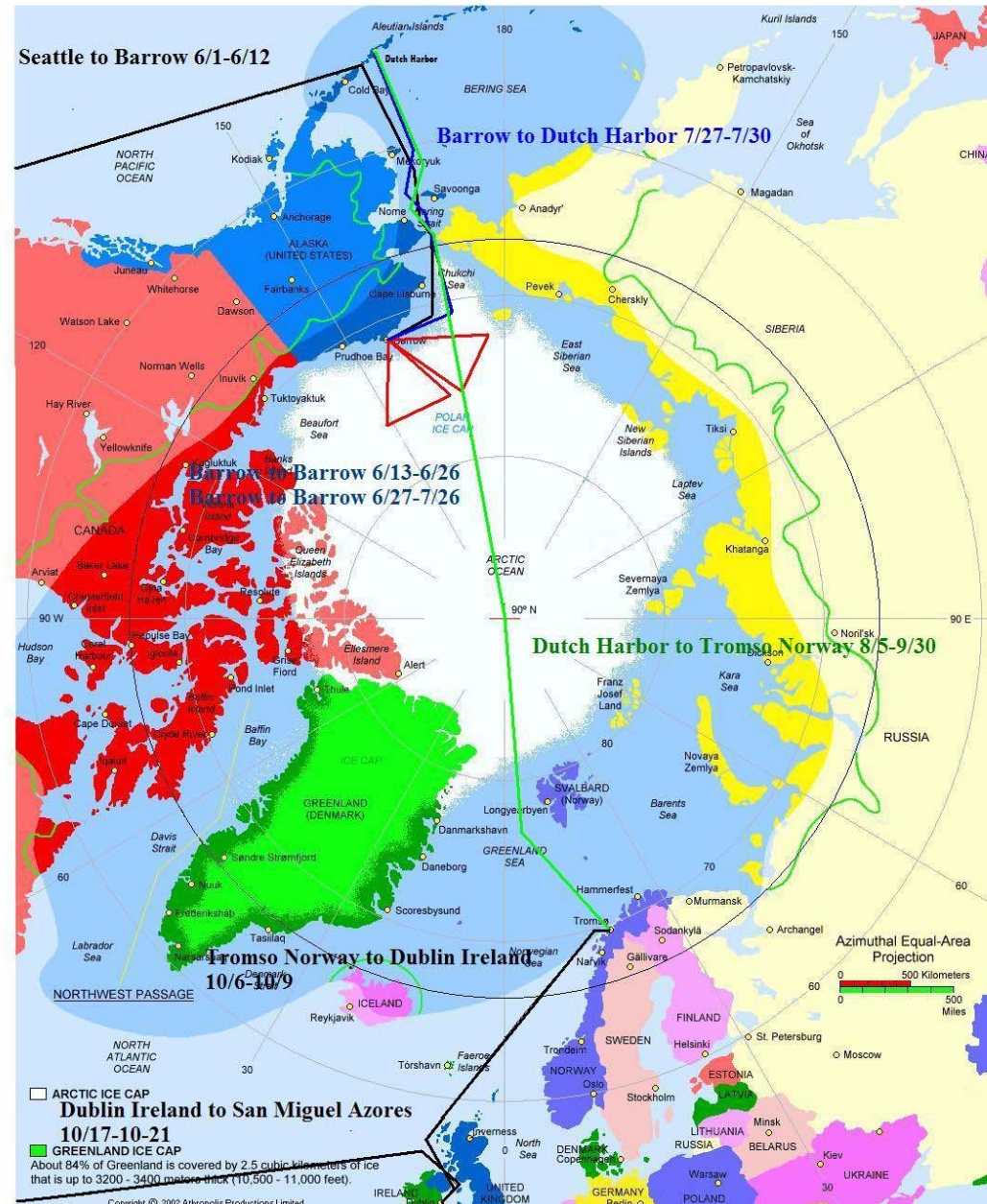
Questions



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Healy Arctic West/East 2005

- On 1 June 2005 CGC Healy embarked on a 180 day Arctic deployment that will span the North pole from Dutch Harbor to Tromso Norway.
- While deployed the Healy will conduct three different science programs sponsored by a variety of Universities and agencies including NSF and NOAA with scientists from nine countries.
- Healy will transit across the top of the world in company with the Swedish icebreaker ODEN.
- Healy will circumnavigate North America and return to Seattle on 28 November 2005 with port calls in Dublin, San Miguel, St Martin and Cabo San Lucas.



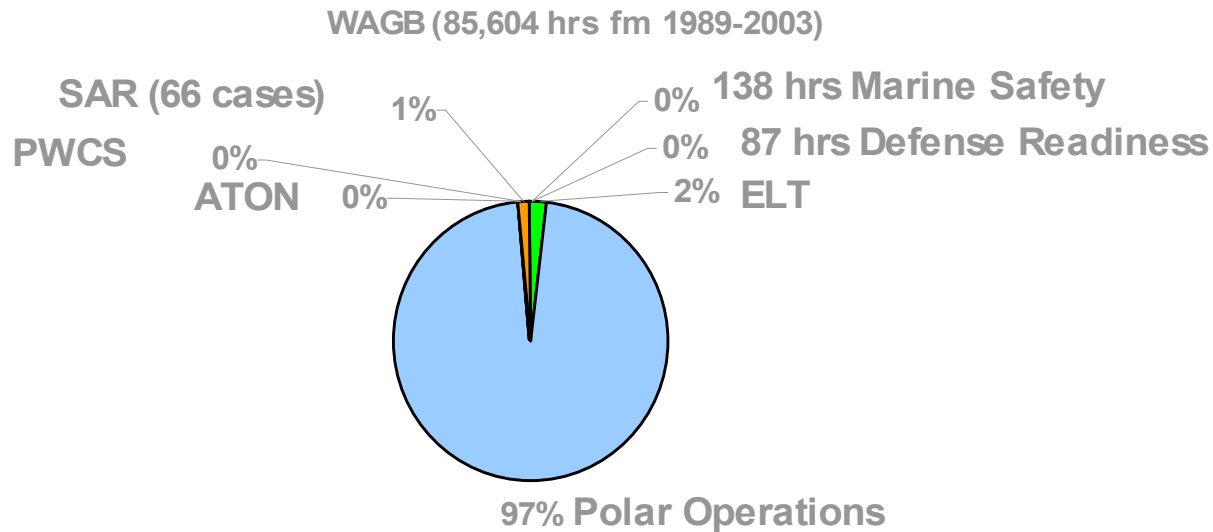
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Other USCG Missions

Search & Rescue (93 cases since 1986)

Law enforcement in Marginal Ice Zone (fishery/pollution)

Environmental pollution response



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USAP supply chain – USCG critical link



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Thule Airbase Annual Re-supply (Operation PACER GOOSE)

- Built in 1950's
- Part of Distant Early Warning (DEW) network
- Thule requires annual re-supply via sealift
 - Escort tanker & cargo vessel into Thule through sea ice
- In 1992, USCG and Canadian Coast Guard agreed to mutual support based upon location of respective polar icebreaker fleets.
 - US - West Arctic
 - Canada - East Arctic
- Since 1993, CCG has supported Operation PACER GOOSE on behalf of USCG. (reimbursed by MSC)



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