M/V GLACIER Conversion



UNOLS Council Meeting

13 October 2005



- GLACIER Society is a non-profit organization dedicated to:
 - Supporting Polar research
 - Providing medical assistance to indigenous peoples of the Arctic Basin
 - Conducting educational programs
- These services will be delivered by the Glacier Society's restored and reconfigured former USS/USCGC GLACIER



Ship Characteristics





GLACIER Characteristics:

• Length 310 feet

• Beam 74 feet

• Draft 28 feet

• Displacement 8,650 tons

• Propulsion Diesel electric - 21,000 hp

• Speed 17 knots







- ABS Classed and certified to USCG Subchapter U, IMO, SOLAS, MARPOL, and ASPPR (Arctic Shipping Pollution Prevention Regs)
- New science capabilities equal to or greater than Global Class AGOR
- New accommodations for 120 total personnel (including crew, science, medical, and educational personnel)
- New machinery and control systems
- New shell plating or add double hull
- Add bow and stern thrusters and DP capability
- Completely new communications and navigational systems including GMDSS and broadband communications
- Medical and dental treatment facilities
- Swimming pool and sauna



Science Capabilities

• *Lab space* 6,000 sq. ft.

• *Working deck space* 3,000 sq. ft.

• *Handling Systems* Stern and side frames and cranes

• Acoustic systems Deep multibeam echosounding system

Shallow multibeam echosounding system

Marine mammal avoidance system

Single beam echosounder

Subbottom profiler

Acoustic positioning system

ADCP

• Other Systems Gravimeter, magnetometer, AUV

• *Helicopters* 2 Bell 412 (in hangar)

• *Work boats* 2 - 25 to 30 feet

• Land vehicles



Conversion Timeline

