# **ALASKA REGION RESEARCH VESSEL**

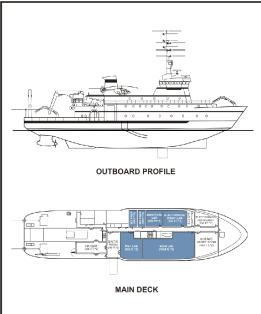
## **CONCEPT DESIGN**

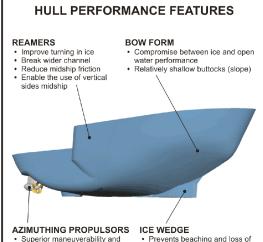












- · Superior maneuverability and control
- · Extend operability in ice Extend operability in rice
   significantly
   Enable breaking/clearing with
- prop wash Enhances available thrust
- Prevents beaching and loss of stability in ice
- Splits thick iceGuides ice away from vessel bottom and propulsors
- Provides location for bow

## **VESSEL CHARACTERISTICS**

#### ICE TRANSITING CAPABILITY

Ice Type	Winter, First-Year Ice, 72.5 ksi
Level Ice Thickness	2.2 ft 2.5 ft.
Ridge Height/Depth	7 ft./20 ft.

SCIENCE EQUIPMENT	
CTD Winch Capacity Cable, 0.322 in. EM	6,000 lbs. 33,000 ft.
Hydro Winch Capacity Cable, 3x19 hydrowire	6,000 lbs. 33,000 ft.
Deep Water Traction Winch Capacity Cable, 0.680 in. coax Cable, 9/16 in. towing	26,500 ft.
Over-side Handling Equipment Stern A-Frame Side A-Frame Baltic Room Extension Crane	12,000 lbs.

### **FISHERIES EQUIPMENT**

Suitable for catch weight to 25,000 lbs. Capable of towing to a depth of 3,300 ft.

Full Suite of Trawl Winches (Removable) Trawl Winches ......2x13,000 ft. of 1.13 in. WR Net Reel......350 ft.3 Net Capacity Gilson, Outhaul, Net Sonde Winches

Knuckle boom crane 20,000 lbs. Aft deck crane, small ......2,000 lbs. Fore-deck crane ......2,000 lbs.

Aft Deck Arranged for Fisheries

Stern Ramp......13 ft. wide, 37 degree slope Trawlway ......13 ft. wide, 47 ft. long

## **DESIGN OVERSIGHT COMMITTEE**

VERA ALEXANDER, UAF, CHAIR ROBERT ELSNER, UAF TERRY WHITLEDGE, UAF THOMAS WEINGARTNER, UAF TOM SMITH, UAF RICHARD PITTENGER, WHO! ROBERTSON DINSMORE, WHOI JOE COBURN, WHOI



CONCEPT DESIGN PRLIMINARY DESIGN MODEL TESTING CONTRACT DESIGN CONSTRUCTION

PROJECT TIMELINE					
2000	2001 2002	2003 2004	2005		