# **R/V Sikuliaq Progress**

AICC March 2012







### **R/V SIKULIAQ**

- Ice-capable General Oceanographic Research Ship
  - IACS PC-5 Ice Classification one of the first in US
  - 261 feet length
  - 4,053 LT displacement at design draft
  - 5,750 BHP
  - 45 day endurance
  - Integrated power plant with AC propulsion motors
  - Tractor style Z-drives
- Owned by NSF, being built and operated by UAF
- UNOLS Global Class
- 20 Crew, 26 Science
- Homeport in Seward, Alaska





#### **Milestones**

•October 2008 Final Design Review

August 2009
 Z-drive Contract with Wartsila

December 2009 Shipyard Contract With Marinette Marine

• January 7<sup>th</sup> 2010 Shipyard Contract Start Date

• January 4<sup>th</sup> 2011 Cutting Steel

• January 21<sup>st</sup> 2011 Module Construction Started

•April 11<sup>th</sup> 2011 Keel Laying Ceremony

• May 10<sup>th</sup> 2011 Science Workshop (Shipyard)

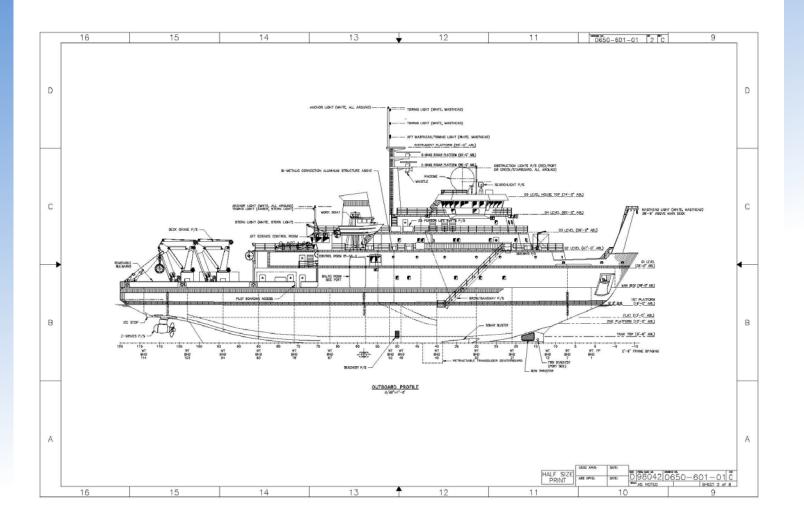
• January 23<sup>rd</sup> 2012 UAF Sikuliaq Oversight Committee Formed

•Feb 18<sup>th</sup> 2012 Science Workshop (Salt Lake City)

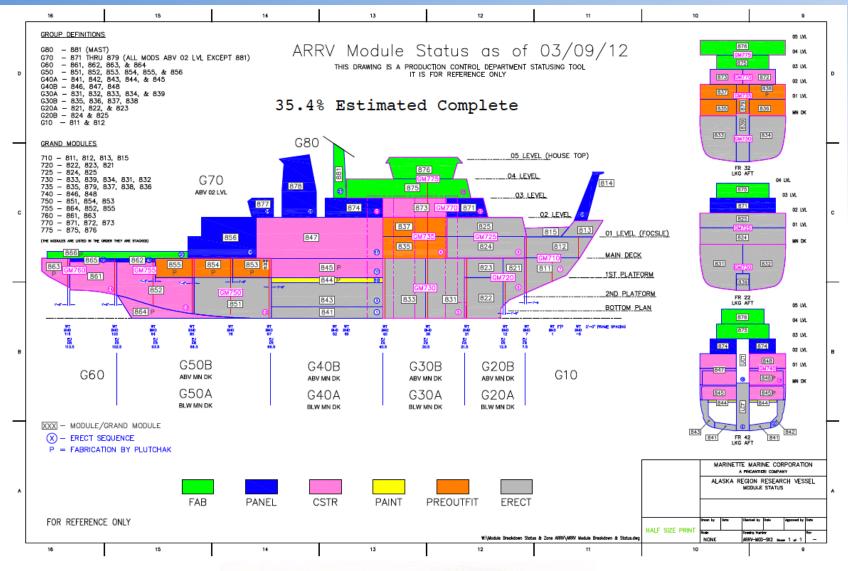
• Feb 24<sup>th</sup> 2012 Z-drives Arrive at Shipyard



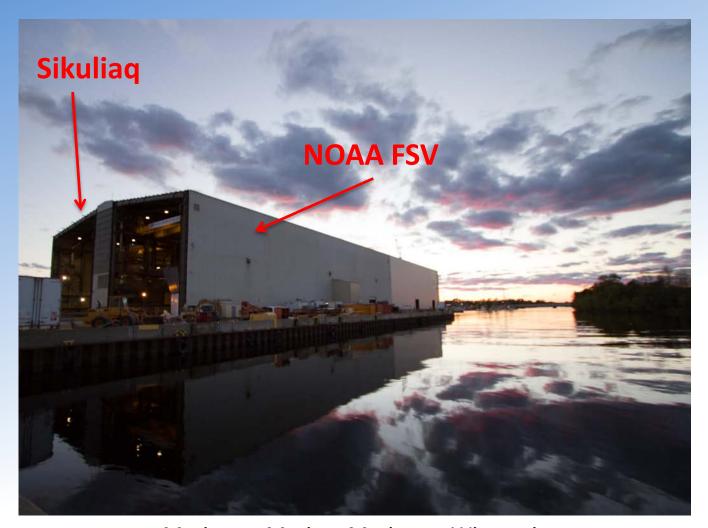






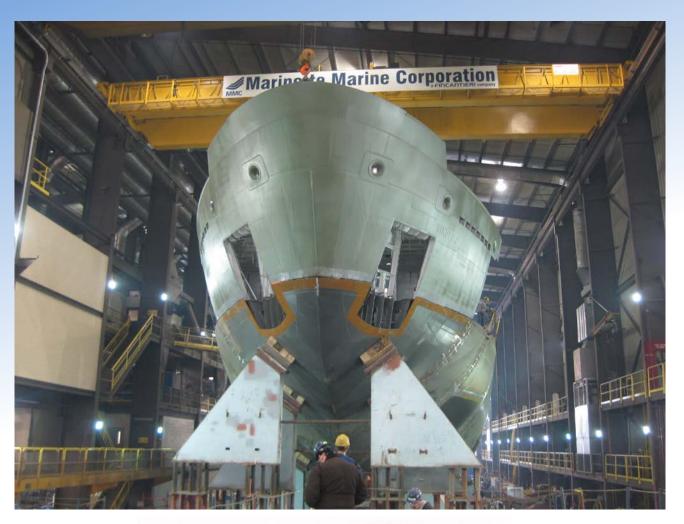






Marinette Marine, Marinette Wisconsin Building 10







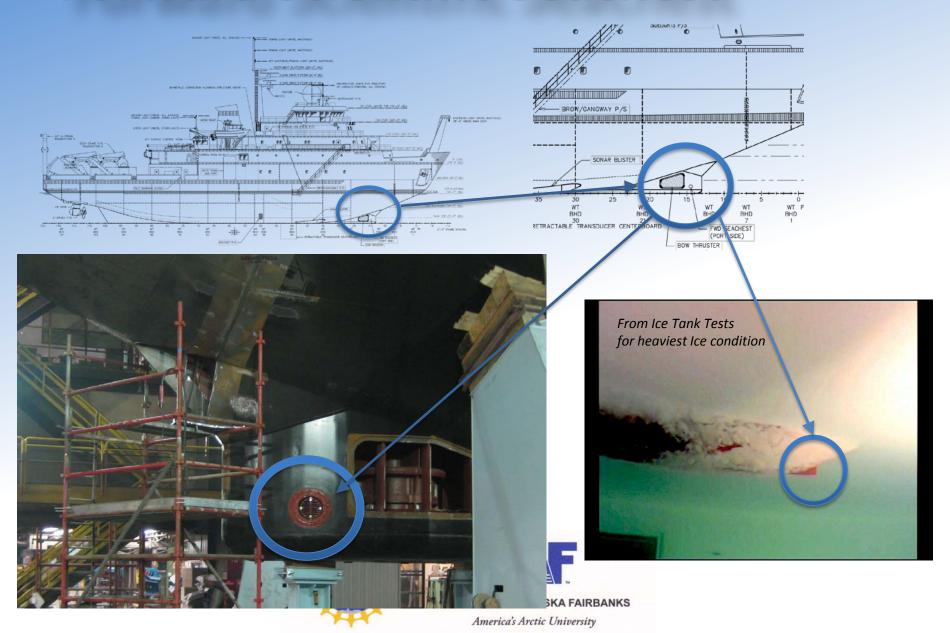


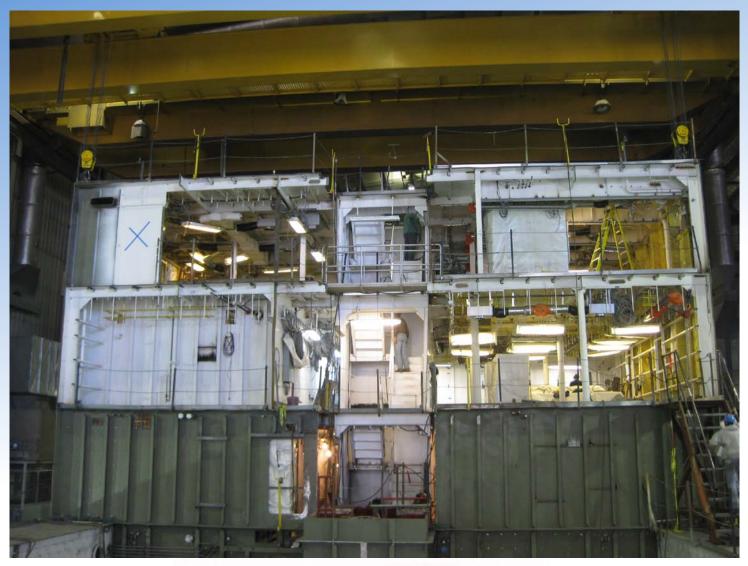






# **Forward Scientific Seachest**





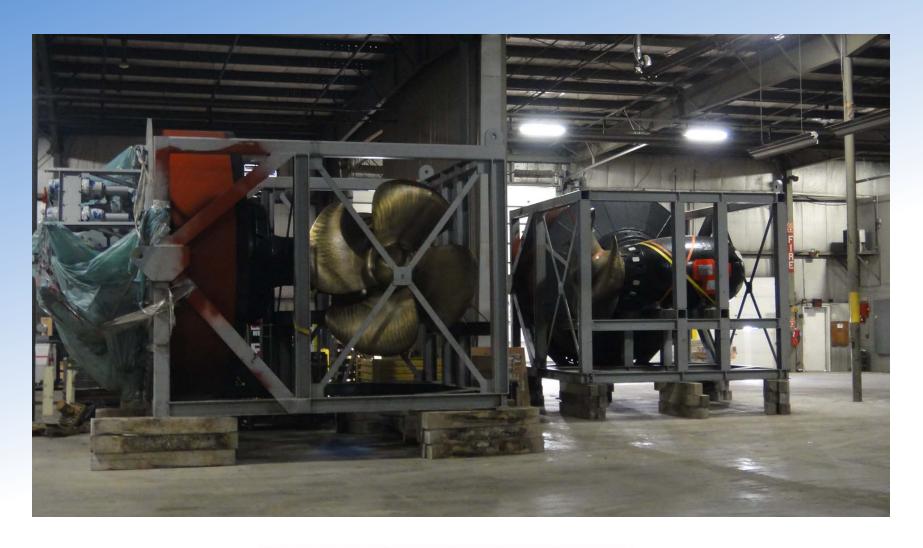












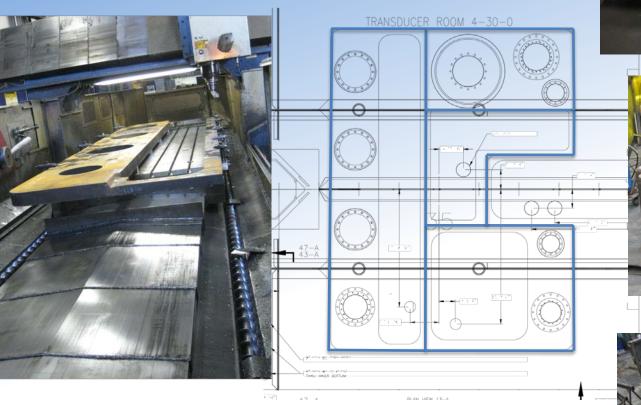




# Sonar Flat - "Blister" NOT RED



#### Forward Transducer Flat in Production Machinists, Inc, Seattle, WA 13 July 2011













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America's Arctic University







#### **Hydrophones**

Monitoring of Underwater Radiated Noise Harris Acoustic HAP 5050

1 Port of RX Array

2 Fwd of TX Array

3 STBD of RX Array

4 AFT Sonar Flat

5 Centerboard

6 Adjacent to Propeller

Plane

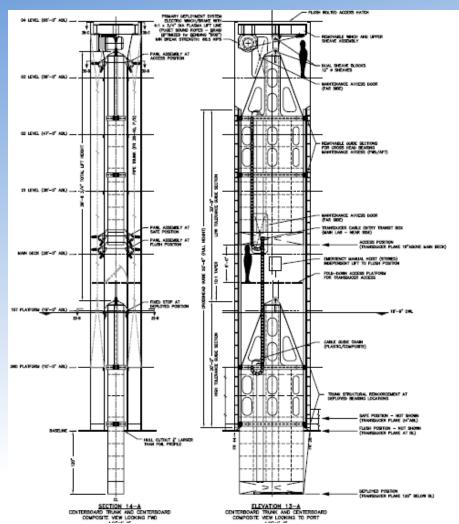


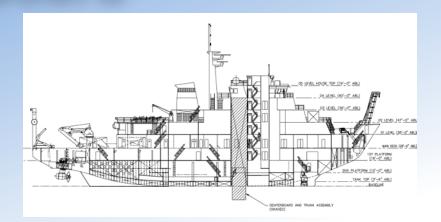




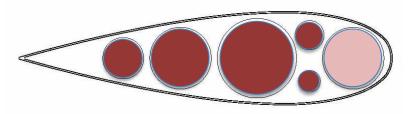
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# **Retractable Centerboard**





- •EK-60 Scientific Sounder System
- One spare mount for project use
  - Accessible from main deck for transducer installations







#### **Center Board Keel**

CS Controls, Houma Louisiana



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## **Mo-Comp Hydro Winches**

Rapp Hydema Seattle







#### **Traction Winch**

Rapp Hydema Seattle



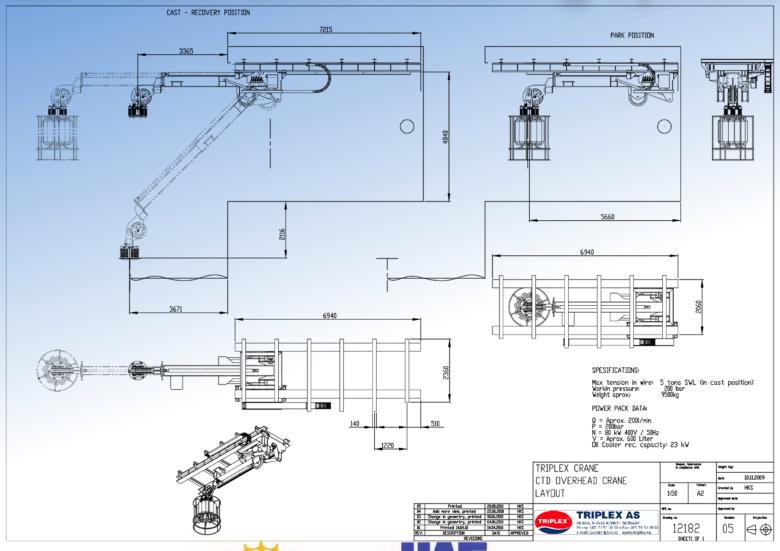








# **Baltic Room Load Handling System**

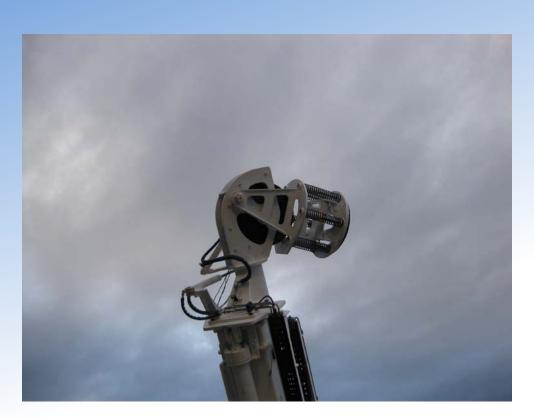






# **Baltic Room Load Handling Boom**

Rapp Hydema February 2012



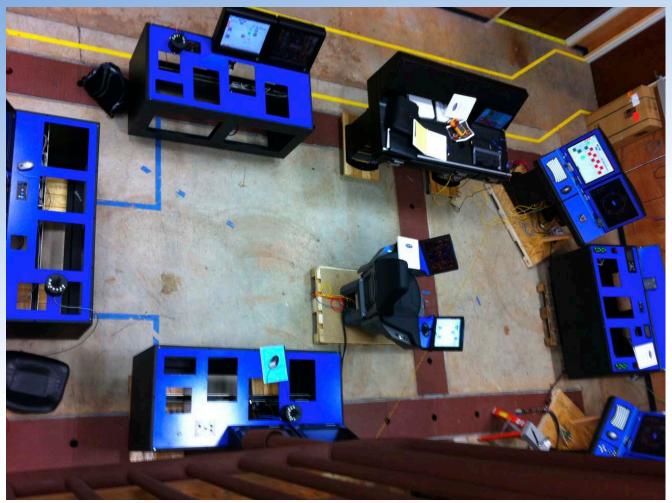






## **Integrated Bridge**

Marine Technologies, Mandeville Louisiana







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## **SIKULIAQ SCHEDULE**

Z-drives Delivered to Shipyard	Feb 2012
Ocean Science Meeting Salt Lake	Feb 2012
Launch	Oct 2012
Builder's Trials	April 2013
Acceptance Trials	May 2013
Delivery	July 2013
Post Delivery Dockside/Training	Aug 2013
Transit and Science Trials	Oct 2013
NSF Inspection	Dec 2013
Available for Science	Jan 2014
Ice Trials	April 2014
Inport and Drydock	May 2014





