



# UNOLS Report to SCOAR

## June 27-28, 2013





# UNOLS Report - Topics

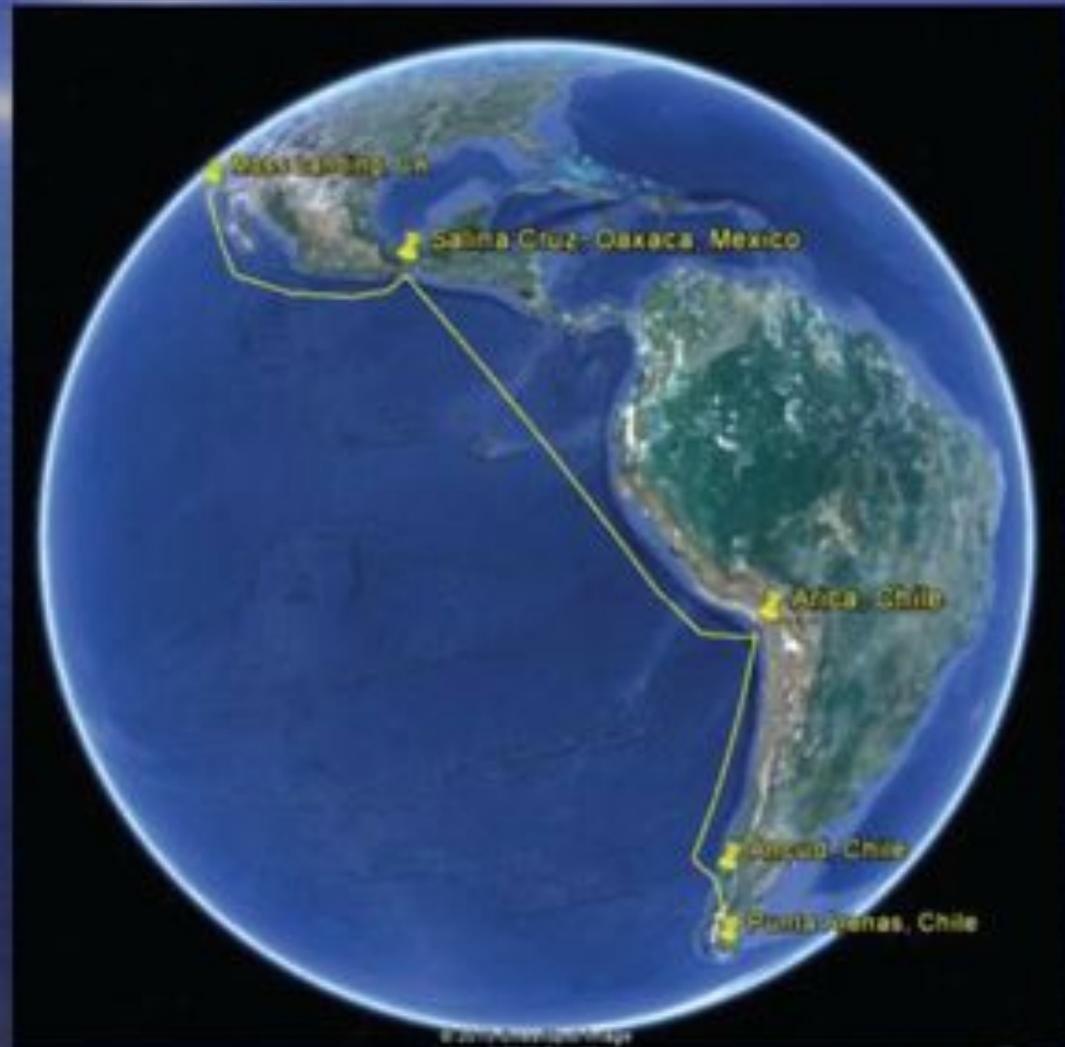
- UNOLS Fleet Operations
- Fleet Modernization Projects
- UNOLS Outreach & Education:
  - UNOLS Speaker Series
  - Early Career Initiatives
  - UNOLS and Telepresence



# UNOLS Fleet Operations

# POINT SUR's Transit South

- Departs Nov. 28<sup>th</sup> 2012
- 31,000 Nautical Miles
- 38 Days Transit
- 31,000 Gallons Fuel used
- Two re-fueling stops
- 1 Christmas tree



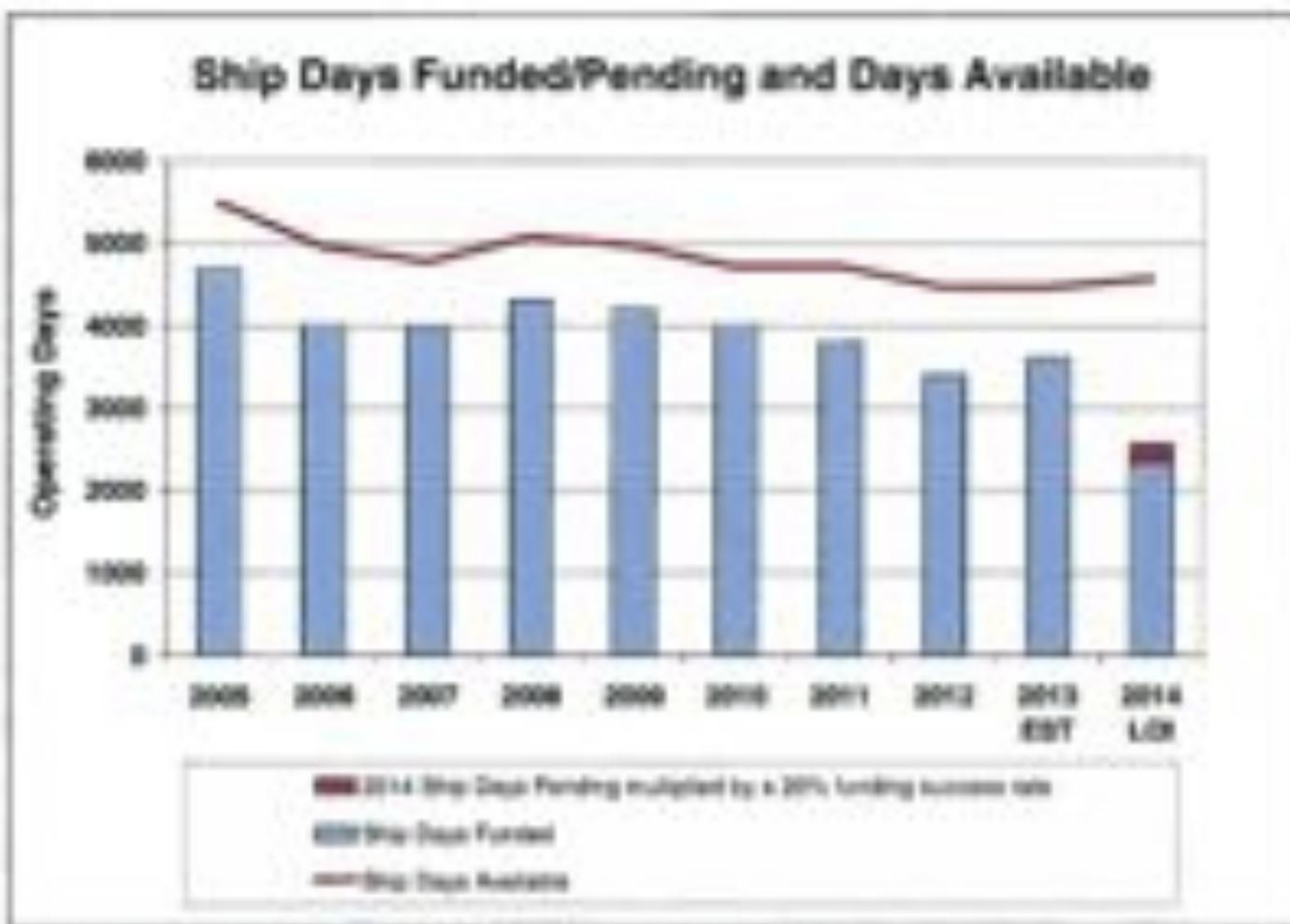


Figure 3: Ship Days Funded/Pending and Days Available

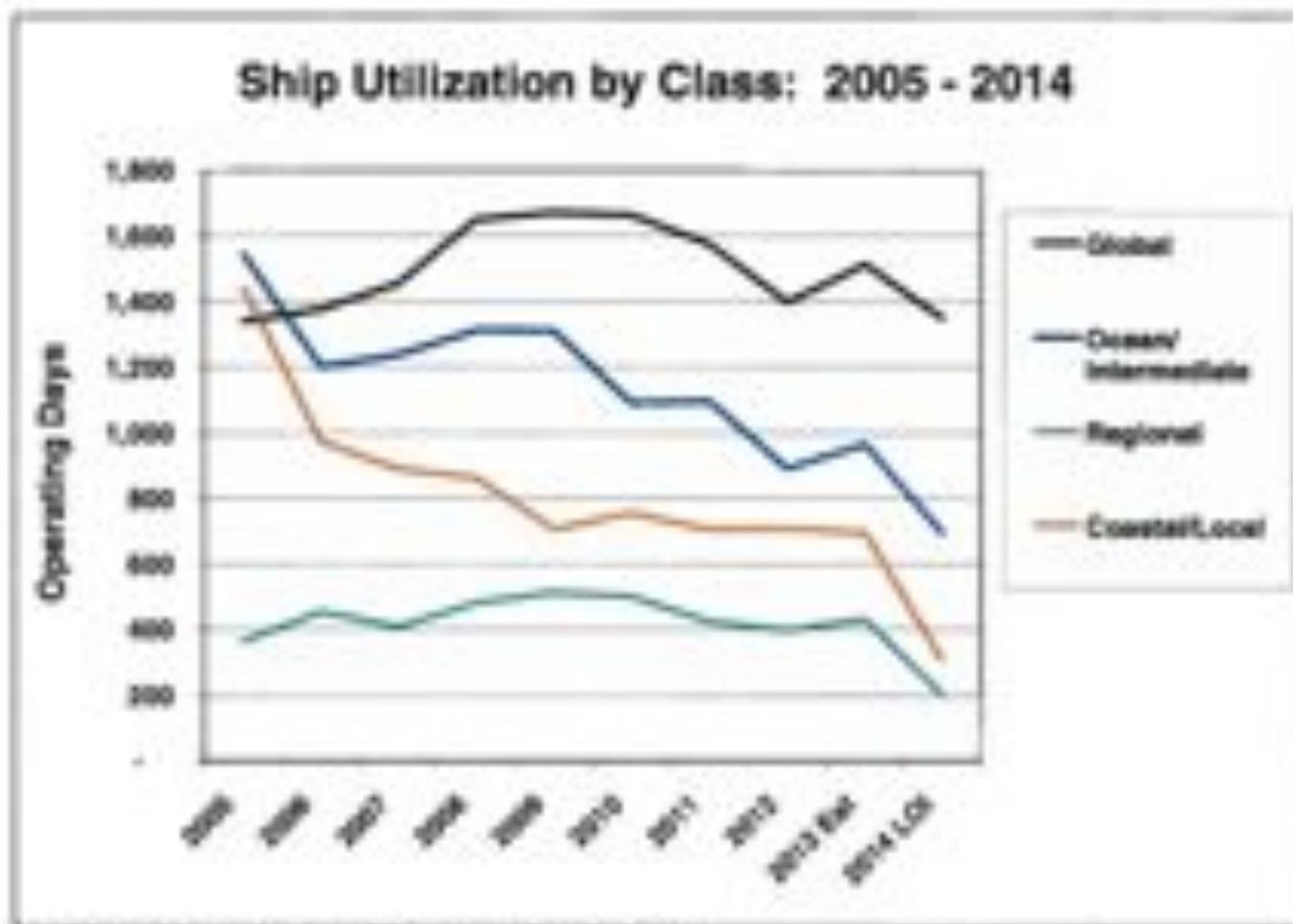


Figure 4: Ship Utilization by Class (2005-2014)

(Note: 2014 LOI includes 20% success rate of pending days)

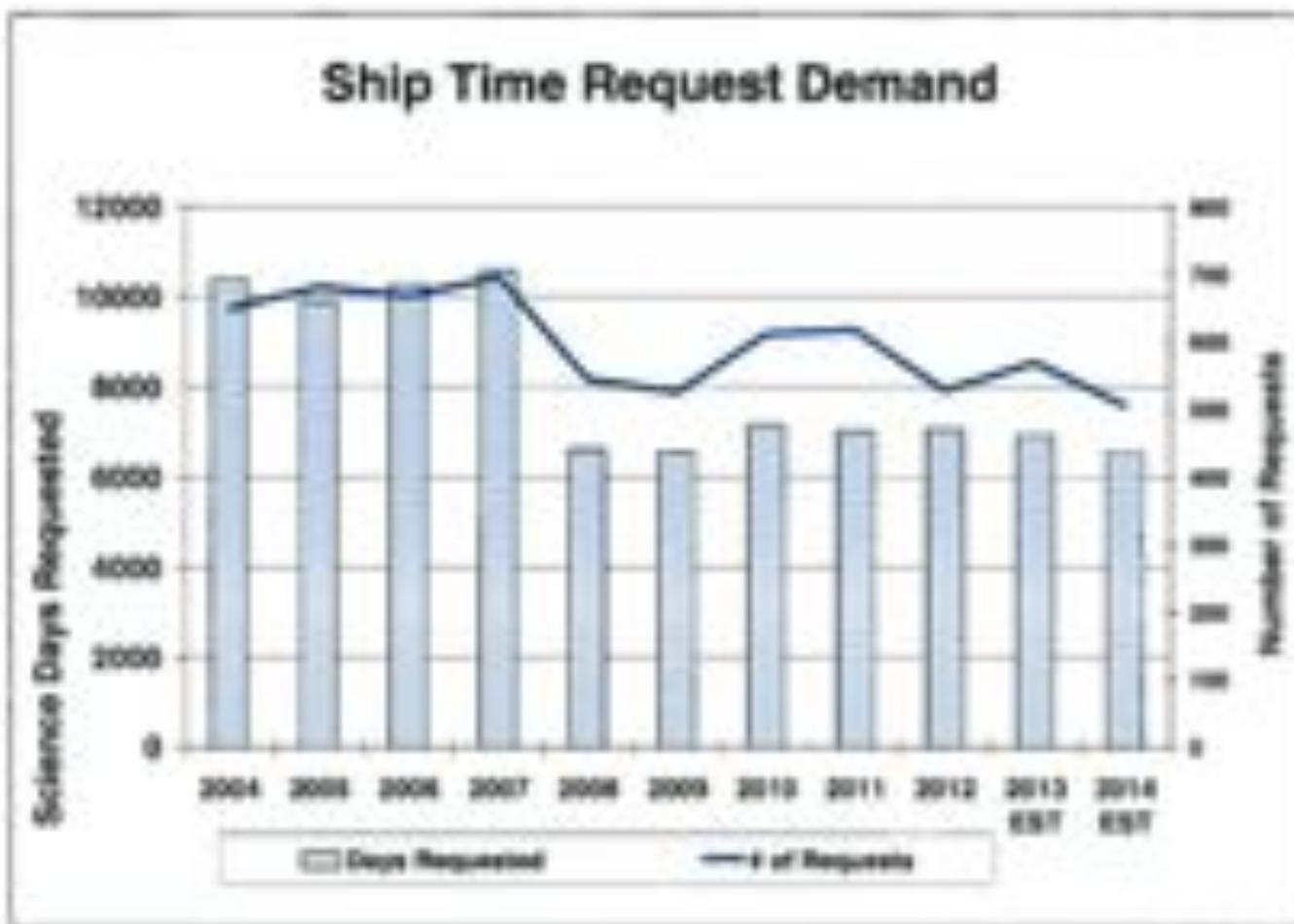


Figure 5: Ship Time Request Demand



# Agency Recommendations regarding Fleet Operations

- Agency Recommendations were provided to the UNOLS this week (June 26<sup>th</sup>)
  - *Cape Hatteras* was retired in 2013
  - Retire *Point Sur*, *Knorr*, and *Melville* in 2014
  - Midlife refits are under consideration for *Thompson*, *Revelle*, and *Atlantis* – moving forward with plan for *Thompson* in 2014
- UNOLS Council Subcommittee will prepare a response to the agency recommendations



# Fleet Modernization



## **R/V SIKULIAQ**

FIC/Council - March 2013



- Dock and Builders Sea Trials – **May 2013**
- Preliminary Acceptance by UAF – **August 2, 2013 (1 week delay)**
- Science Trials/Transit (Phase IV) – **Sept 2013 – Jan 2014**
- Alongside Seward, AK – **February – March, 2014**
- Ice Trials – **April 2014 (MREFC)**
- Warranty Shipyard – **May/June 2014 (MREFC)**
- Begin Science Operations – **June 2014 (Ship Ops Program)**



## Regional Class Research Vessel (RCRV)

FIC/Council - March 2013

- OSU selected as the Lead Institution for the RCRV project
- Funds awarded to Conceptual Design Review (CDR) only -  
**December 3-5, 2013 at NSF**
- Advancement to Preliminary Design Review (PDR) contingent upon successful CDR and availability of funding
- Three vessels currently planned
- Actual number of vessels based on projected science utilization and availability of funding



## Regional Class Research Vessel (RCRV)

FIC/Council - March 2013

- Operator selection to take place once number of vessels is known - **Solicitation in early CY 2017**
- Open design refresh process through RCRV Science Oversight Committee (SOC) and OSU reports to UNOLS
- Regional representation on the SOC during design refresh
- MREFC Funding Request for FY17 in **March 2015**
- First RCRV operational in **~CY 2020**





## Ocean Class Acquisition (Navy)

- **Operator Selections made in May 2010**
  - AGOR27 – WHOI
  - AGOR28 – SIO
- **Phase II award (construction) in Fall 2011 -**  
Dakota Creek-Guido Perla
- **Keel Laying Ceremony – August 17, 2012 at**  
Dakota Creek Shipyard
- **Ships Named:**
  - R/V *Neal Armstrong*
  - R/V *Sally Ride*
- **Ship deliveries in 2014/2015**



# FSR – Fleet Modernization

Federal Oceanographic Fleet Modernization (2007-2022)





## FSR – Fuel Costs



- FY03 - \$13.9M in Fuel \$122.5M Total Cost (\$0.84/gallon) 11% of budget
- FY11 - \$44.4M in Fuel \$180.0M Total Cost (\$3.33/gallon) 25% of budget



# UNOLS Education and Outreach Activities



## UNOLS Goal 2010/2011: UNOLS SPEAKER SERIES

- To establish a speaker series to highlight UNOLS ships and oceanographic research and to serve as an outreach activity to non-UNOLS colleges and universities
- Particular attention to institutions with under-represented minorities in the marine sciences
- Series to run for three years beginning in fall 2012 and evaluated in 2015.



## Regional Coordinators:

Great Lakes: Doug Ricketts (Univ. of Minn.)

Northwest: Bob Collier (OSU)

Southwest: Bruce Applegate (SIO)

Northeast: Mary Jane Perry (Univ. of Maine)

Southeast: Peter Ortner (RSMAS)

Gulf Coast: Vernon Asper (Univ. of Southern Miss.)

Hawaii: Marcie Grabowski (Univ. of Hawaii)

Alaska: Terry Whitley (Univ. of Alaska)



## Recent Activities and Tasks

- Phone Meeting with Regional Coordinators: Feb 7, 2013
- Establish an email list serve for the Coordinators
- Created a Speaker Series DropBox.
- Create a UNOLS Flyer that can be used to recruit host institutions.
- Post the UNOLS Marine Tech Flyer in the DropBox
- Create a spreadsheet for tracking the Speaker Series Activities.
- Hold quarterly meetings
- Recruited first non-coordinator “speaker”



## UNOLS Early Career Scientist Initiatives

- Chief Scientist Training Cruises:
  - PI: Clare Reimers – Rapid Award (3-Year program)
  - On-line Application Process
  - Approximately 14 students on each cruise
  - Cruise Blog
  - 2011: Two *Wecoma* cruise opportunities
  - 2012: Cruise on *New Horizon*
  - 2013: *Endeavor* cruise in mid-October, 44 applicants



# UNOLS Early Career Scientist Initiatives

- **DESSC Early Career Scientist Workshops:**
  - December 2011 – 30 participants
  - December 2012 – 30+ participants
- **Fleet Improvement Committee Early Career Scientist Program** planned to coincide with UNOLS Annual meetings.
- **MLSOC Workshop** planned for December 2013



# UNOLS and Telepresence

Expanding the scope of a sea-going research expedition



THE  
UNIVERSITY  
OF RHODE ISLAND  
GRADUATE SCHOOL  
OF OCEANOGRAPHY

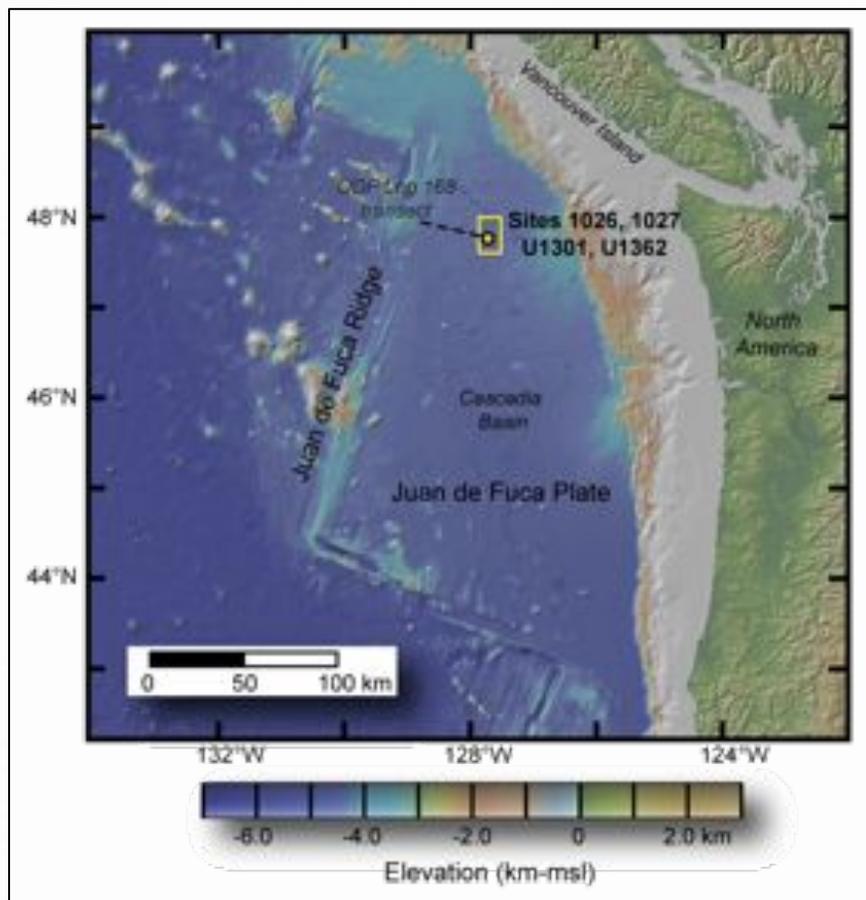
Inner Space  
center

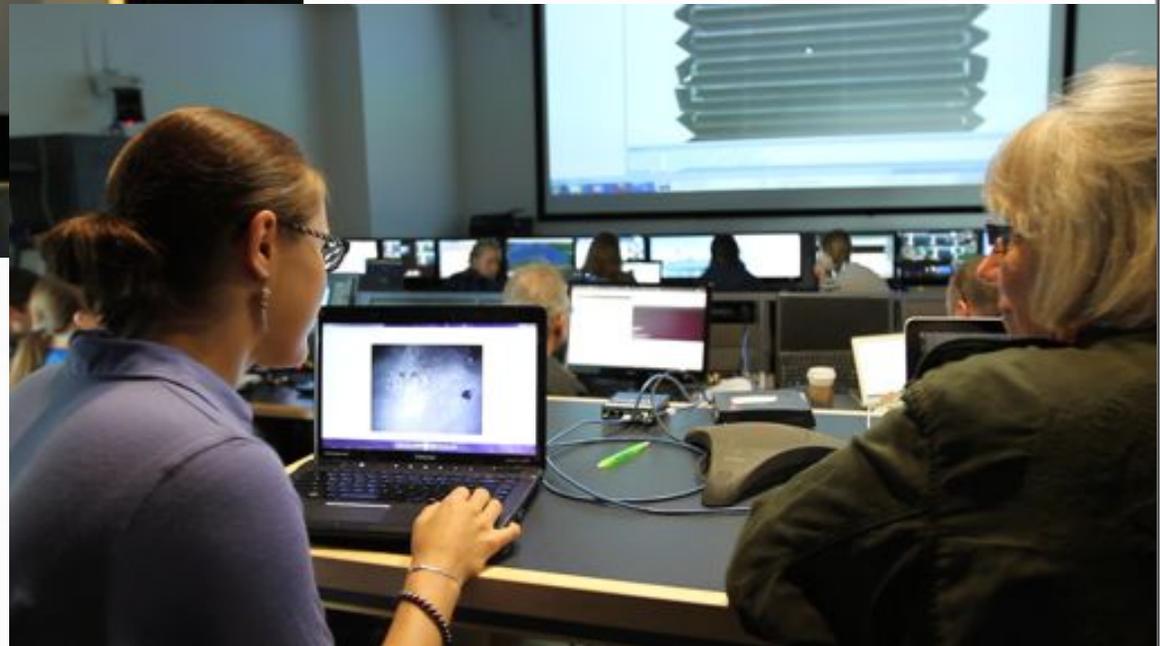
Mission Control





# National Deep Submergence Facility





ISC Mission Control







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Inner Space  
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LIVE VIDEO  R/V Atlantis

The Inner Space Center broadcasts live video streams from the ships of exploration to viewers on  Internet2 and the regular Internet.



Atlantis LIVE

Atlantis Live feed from the Inner Space Center

<http://innerspacecenter.org/galleries/atlantis-live/>



Thank you!

*Please be our friend!*

