

# 2010 RCRV – FIC Tasking Process of Review

- March 25, FIC receives Request for Input on RCRV design from NSF
- FIC meets via 5 web conferences April-July to discuss 13 specific questions presented by NSF and compiles responses. Information on *R/V Sharp* requested often from Bill Byam.
- August 12-29, Council given opportunity to comment on FIC responses
- August 30, 2010 FIC submits responses to NSF
- August 31, Bauke Houtman acknowledges receipt

# Major recommendations

- Increase aft deck space by both shortening the deck house and increasing vessel length (10-ft to 20-ft)
- Re-review sea keeping and operational requirements before finalizing choices of propulsion drives and bow thruster early in refresh
  - If the decision is to install Z-drives, consider spare parts pool
  - Design measures are needed to reduce bow thruster noise and vibration
- Increase power to achieve 12 kts average cruising speed

## Major recommendations (2)

- If time and funding allow, remove bulbous bow from design due to bubble sweep down risks
- Consider innovative hull lines to reduce fuel consumption
- Abandon *SHARP* style van mating
- Reconsider retractable centerboard (only if bulbous bow is removed)
- Add EM710 (75kHz) and parametric SBP

## Major recommendations (3)

- Establish an achievable URN curve appropriate to mission requirements
- Design suitable incubator space and increase science storage space
- Keep a dedicated lounge and 16 science bunks
  - Lab space must be adequate to accommodate a science party of 16 people
- Remove incinerator and develop waste management plan