

Load Handling System Workshop (RVOC – October 2004)

GOAL

“ Develop a conceptual design for the “next-generation” over-the-side load handling system for the UNOLS fleet.”

Committee Members:

Matt Hawkins, Chair

Tom Althouse

Andy Bowen

Marc Willis

Jim Holik

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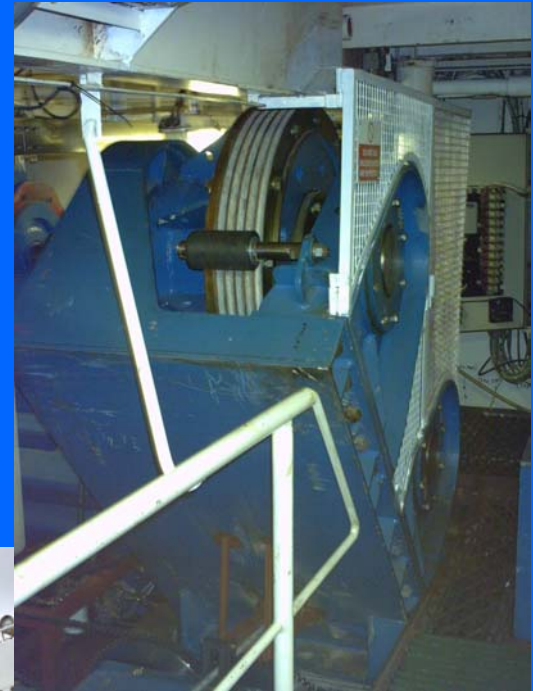
- One year effort.
- Joint-funded by NSF and ONR.
- Focused on ship visits and field evaluations of existing systems.
- Must also address:
 - Loading Handling System design standards
 - Incorporation of “Next-generation” UNOLS wire
 - “Next-generation” science packages
 - Motion compensation
 - “Hands-free” deployment and recovery

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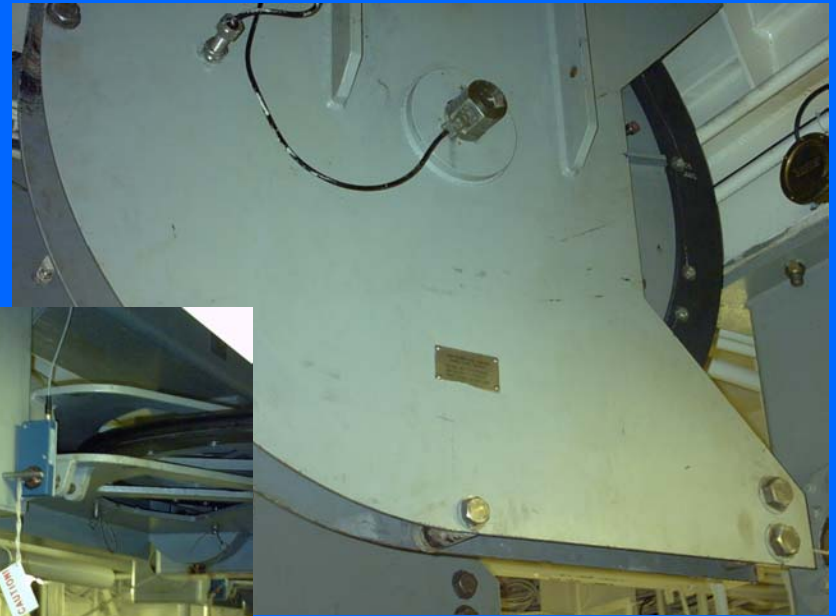
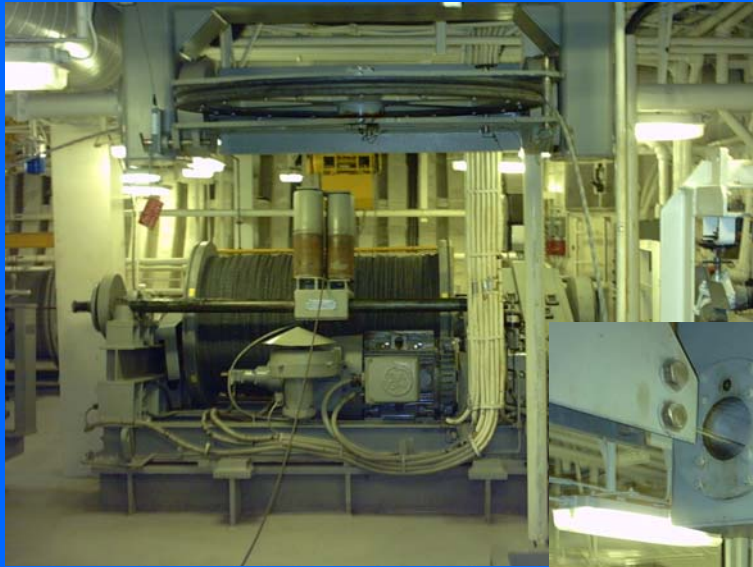
Current Status

- ~80% of ship visits complete.
- Load Handling System Design Standards to be addressed at RVOC meeting.
- Recommendations being made to KILO MOANA – common themes impacting solutions for the broader fleet.
- Web site of all findings developed – Not yet publicly available.
 - Photos
 - Reports
 - User comments

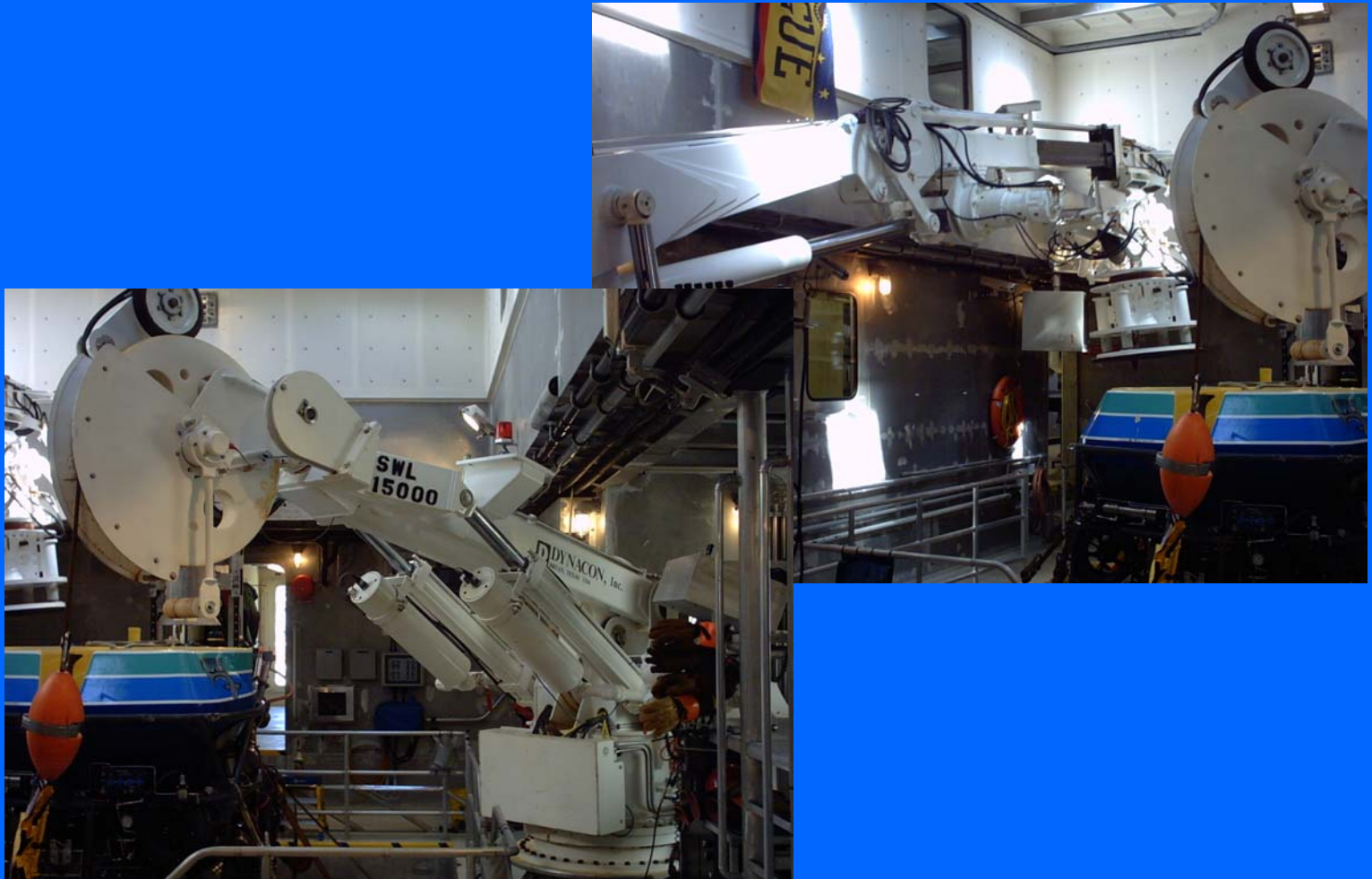
RRS *DISCOVERY* (CALEY)



USCG *HEALY* (InterOcean)



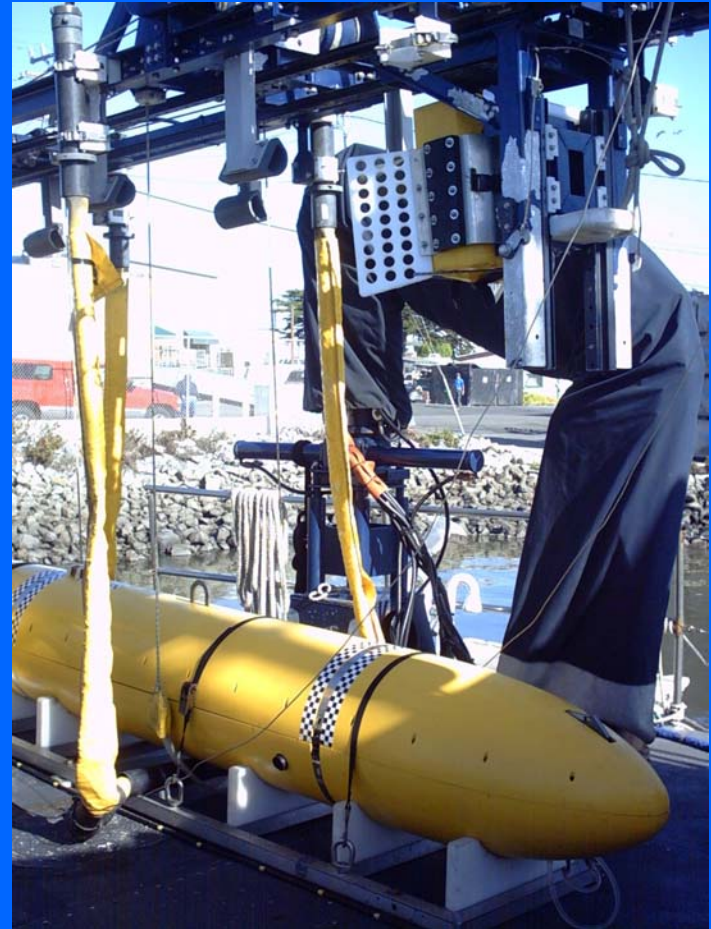
R/V WESTERN FLYER (Dynacon)



ODIM-Spectrum



R/V ZEPHYR (Brooke-Ocean)



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- Also
 - *G.O. Sars* (??) - Norway
 - *MIRAI* (Dynacon) – Japan
- Still to do this fall
 - *CELTIC EXPLORER* (??) – Ireland
 - Crowley Tug (Markey) - US
 - *FSV OSCAR DYSON* (Rapp-Hydema) - NOAA

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About to Begin

- Development of “conceptual” drawings
 - One size DOES NOT fit all >> “scalable” design based on vessel size and location on board.
 - Conceptually similar.
- Development of “conceptual” specifications.
- Define “next-generation” science packages – required payload size and weight (larger).
- Complete – January/February 2005.
- All findings and recommendations released for broader UNOLS comment upon completion.