DxSH-5 Winch Upgrade Project

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Project Outline

- Upgrade UNOLS fleet DxSH-5 Winches to eliminate back bending of wires
- Upgrade controls to provide Heave Compensation plus Render/Recover capabilities
- Refurbish existing DxSH-5 Winches
Upgraded DxSH-5 Winches

- Old level wind system removed
- Add an electrically driven “separate” level wind system on the “back side” of the winch
- Add a flagging block to the top of the level wind
- Remove band brake
- Lock in single speed
- Eliminate the clutch
- Upgraded coupling
- Upgraded brake
- New winch SCR drive for both the winch & the level wind
- Add Heave Comp & Render / Recover capability
- Refurbish winch – bearings, seals, motor, blast / paint
- MCD Produced plus O&M Manual updated
Old DESH-5
Upgraded & Refurbished DESH-5

Similar in concept to CAST-6 recently installed on R/V Roger Revelle
Atlantis Winches at Markey
Next Winches / Ships?

- Marcus Langseth – ex-Wecoma winch being worked at Markey
- Thomas G. Thompson – 2014-2015 during mid-life overhaul?
- Roger Revelle ?
- Endeavor ?
- Oceanus – OSU just had refurbished
- Atlantic Explorer – maintenance period in early 2014

Additional Info:
- Group Purchase – Separate UW POs to Markey for each project (each ship)
- Need to look ahead on maintenance / cruise schedules – time to figure 2014 plan
- Depends on available funding from NSF. UW submits SSSE request.
Questions / Issues

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And we have an MCD!