



Duke UNIVERSITY

OSU
Oregon State
UNIVERSITY
College of Earth, Ocean,
and Atmospheric Sciences

“Group Buy” Contract for the Development of Maximum Capability Documents

Goals

- 1. MCDs for selected winches and frames on some UNOLS vessels.**
- 2. A format for MCDs that can be used for future MCDs.**
- 3. Analysis methods that can be used for future MCDs.**
- 4. Economies of scale in developing MCDs.**

Project Management

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Project History

- Late 2011: Duke funded for MCD “Group Buy.”
- 29 Feb. ‘12: Duke releases RFP.
- 02 Aug. ‘12: Duke signs contract with Glosten for \$283,520 for the “First Priority” tasks.
- 30 Mar. ‘13: Glosten reports 30% completion.
- 01 Aug. ‘13: Original contract completion date but we anticipate extension until 30 Sep. ‘13.

First Priority

<u>Vessel</u>	<u>MCD</u>	<u>Status</u>
<i>Atlantic Explorer</i>	Side Frame CTD winch	Scope defined, Ship check in early May. Markey - Component MCD due May 2013, foundation review completed by end of June.
<i>Hugh R Sharp</i>	Stern Frame Trawl winches (2)	Started FEM, Data due July 2013. Dynacon - due June 2013, 20% completed, foundations by end of July 2013
<i>Pelican</i>	Stern Frame Trawl winch	FEM built, scope not finalized due to trouble contacting LUMCON. Dynacon - due June 2013, 5% completed, foundation by end of July 2013.
<i>Sproul</i>	Stern Frame	MCD Rev.- submitted, collecting feedback on Rev.- for resubmittal.

First Priority (Cont.)

<u>Vessel</u>	<u>MCD</u>	<u>Status</u>
<i>New Horizon</i>	Stern Frame	MCD Rev.- submitted, collecting feedback on Rev.- for Revision A resubmittal.
	CTD winch	Markey - Component MCD due May 2013, foundation completed by end of June.
	Hydro winch	Markey - Component MCD due May 2013, foundation review completed by end of June.

Second Priority

(as written in current Glostén contract)

<u>Vessel</u>	<u>MCD</u>	<u>Status</u>
<i>Sproul</i>	<i>Trawl Winch CTD Winch</i>	<i>Markey DUTW 9-11 Markey DUSH 5</i>
<i>New Horizon</i>	<i>Side Frame 1 Side Frame 2 Trawl Winch</i>	<i>Dynacon Traction</i>

Cost Estimates

- Frame analysis, FEA, and MCD:
\$17.5 to 27.2 k.
- Winch (subcontract) and foundation analysis and MCD:
\$16.8 to 21.3 k.

What next?

- Completion of “First Priority” list expected by 30 Sep. ‘13 or a bit later.
- Unlikely there will be any funds in left present contract for “Second Priority.”
- Unlikely that present contract will be added to:
 - No funds have been identified to do so,
 - Duke is no longer an operating institution.