





ECWP UPDATE 2019



Joshua Eaton

UNOLS East Coast Winch Pool

Personnel



Brian Guest



Jamie Haley System Maintenance



Josh Eaton Engineering

Mission: Supporting Science



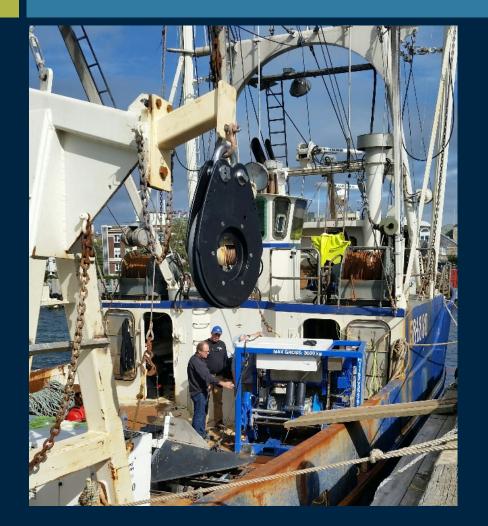
Assets

Assets: Winches

5

Moe & Larry Curly & Shemp Donnie & Marie Gloria MV4 MAR DESCRIPTION OF Monk Joe Cletus & Cooter Jed

Assets: Sheaves



One ¹/₂" Harken Sheave

Two 0.322" Harken Sheaves

One 36" diameter 0.681 Sheave

One 0.322 Trace Metal Sheave

One Wide Groove Metering Sheave

One ¼" Trace Metal Sheave

Access to One 48" diameter 0.681 Sheave

Assets: Tensioners

Pinehill Tensioner

Barney

Leitheiser Tensioner

Reel-Power Winder Cart





Assets: Other



Two Light Duty Turn Tables

One Medium Duty Turn Table

One 25K and one 50K Load Cells

One Quick Check Tensiometer

Winch Pool Shop

One 3 Phase 220 VAC to 480 VAC Transformer

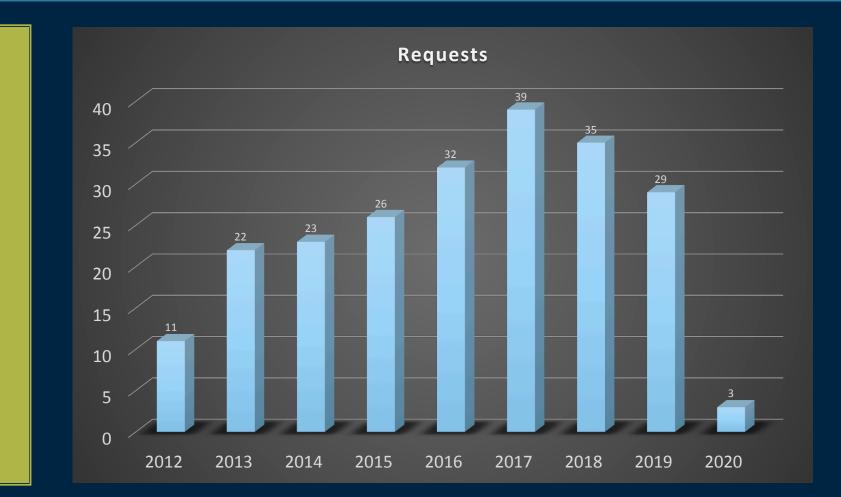
Multiple Slip Rings

Two MRUs

Utilization

Requests

Decrease in Requests Steady Usage Days 35 Requests for 2018 29 Requests for 2019



Request Form

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©Woods Hole Ocea	ceanographic Instit	tution. All I	rights reserved.				

Issues

Issues

Shipping Issues Improper Use of Equipment Lifting a Bolted Down Winch Not Contacting Us Generators

Not a Capstan





Projects

Upgrades and Repairs

MASH Winch Cabinet Replacement Completed

Corrosion Coating Experiment Completed

UMiami Hawboldt Consolidation Completed

Change Power Connectors to Meltric DSN - 90%

Magnetometer Winch Upgrade

New MASH Remotes

- Creating a standard remote for ECWP winches
- Proof of Concept Complete
- Prototype under construction

MASH Winch Cabinet Replacement

Added Vibration Isolation



Miami Hawboldt Winch



New and Improved!

Controls Operator Platform Protection Screen Improved Slip Ring Cup Holder!



Meltric DSN Connectors

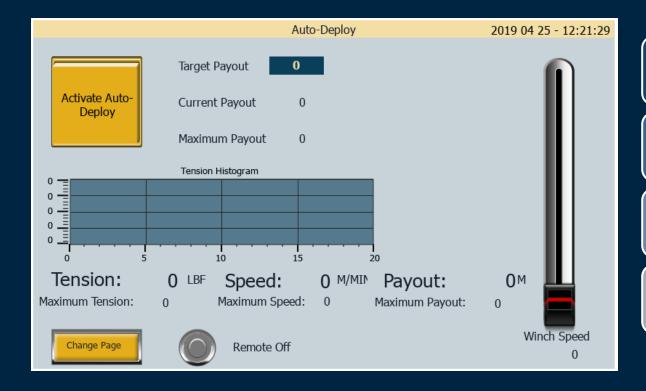


Changing out old connectors

Driving Factor: Explosion

Positive Connection Identification

ECWP Remote



Universal Remote for Our Winches

Add Features to Old Winches

Smaller Tether

Smaller Connector

Roller Post Replaced



Corrosion Coating: Experiment



Multipurpose Winch



Multipurpose Winch – In Real Life

6 Foot Drum



Motor in the Top Had



Services



Testing Plans
Training
Winch Service
Acquisition Assistance
LCI-90i Oversight
Overboard Handling Questions
Technical Assistance

Plans: Testing and Analysis

MASH2K Test F
 MASHZAL DESCRIPTION Introduction An introduction An intervention An

Winch Assistance

Atlantic Explorer



Winch Controls

DESH5

DESH4

COM7

System Mapping



Atlantis

- Provided Tensiometer
- Measuring Methodology

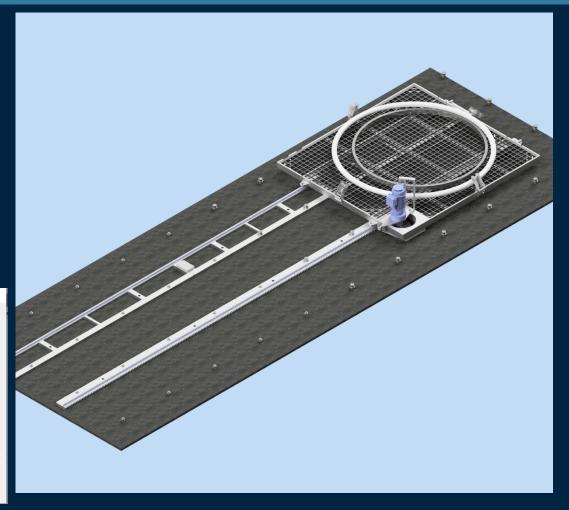
Armstrong

- CTD Rosette Track
- Active Heave Compensation

OSU Coring Group

• Wire Log Analysis

🖳 Winch Data Parse × Selected Winch SIO Traction Winch ОК Open Fil Minimum Payou Minimum Tension Wrong Date 2019-04-25 2019-04-25 Correct Date Process Date/Time Folder Select Combine Files Process Casts



Winch Acquisition

Acquisition Assistance

University of Hawaii LARS Replacement

Skidaway Trace Metal Winch



Future Projects

Upcoming Projects

Next Generation Levelwind

Testing 9/16 3x19 on 0.68 Sheaves

Heave Sensor

Winch Test Platform

M2M Gateways

Improve Website

Document Repository

