Personnel

Brian Guest
Manager

Jamie Haley
System Maintenance

Josh Eaton
Engineering
Mission: Supporting Science
Assets
# Assets: Winches

<table>
<thead>
<tr>
<th>Moe &amp; Larry</th>
<th>Curly &amp; Shemp</th>
<th>Donnie &amp; Marie</th>
<th>Gloria</th>
<th>Monk</th>
<th>Joe</th>
<th>Cletus &amp; Cooter</th>
<th>Jed</th>
</tr>
</thead>
</table>

Woods Hole Oceanographic Institution
### Assets: Sheaves

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>One ½” Harken Sheave</td>
</tr>
<tr>
<td>Two 0.322” Harken Sheaves</td>
</tr>
<tr>
<td>One 36” diameter 0.681 Sheave</td>
</tr>
<tr>
<td>One 0.322 Trace Metal Sheave</td>
</tr>
<tr>
<td>One Wide Groove Metering Sheave</td>
</tr>
<tr>
<td>One ¼” Trace Metal Sheave</td>
</tr>
<tr>
<td>Access to One 48” diameter 0.681 Sheave</td>
</tr>
</tbody>
</table>

Woods Hole Oceanographic Institution
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
Issues
<table>
<thead>
<tr>
<th>Issues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping Issues</td>
</tr>
<tr>
<td>Improper Use of Equipment</td>
</tr>
<tr>
<td>Lifting a Bolted Down Winch</td>
</tr>
<tr>
<td>Not Contacting Us</td>
</tr>
<tr>
<td>Generators</td>
</tr>
</tbody>
</table>
Not a Capstan
Fast Shipping
Projects
Upgrades and Repairs

- MASH Winch Cabinet Replacement Completed
- Corrosion Coating Experiment Completed
- UMiami Hawboldt Consolidation Completed
- Change Power Connectors to Meltric DSN Completed
- Magnetometer Winch Upgrade 90%

New MASH Remotes
- Creating a standard remote for ECWP winches
- Proof of Concept Complete
- Prototype under construction
MASH Winch Cabinet Replacement

Completed
Added Vibration Isolation
Miami Hawboldt Winch

Separate Components
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
Green Lube

Corrosion Coating: Experiment
Multipurpose Winch

Woods Hole Oceanographic Institution
Multipurpose Winch – In Real Life

6 Foot Drum

Motor in the Top Had
Services
Services

- Testing Plans
- Training
- Winch Service
- Acquisition Assistance
- LCI-90i Oversight
- Overboard Handling Questions
- Technical Assistance
Plans: Testing and Analysis
Winch Assistance
Atlantic Explorer

Winch Controls

DESH5

DESH4

COM7

System Mapping
Support

Atlantis
- Provided Tensiometer
- Measuring Methodology
- Spooling Help

Armstrong
- CTD Rosette Track
- Active Heave Compensation
- Spooling Help

OSU Coring Group
- Wire Log Analysis
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
- MRU Pool