ECWP UPDATE 2019

Joshua Eaton

UNOLS East Coast Winch Pool

Personnel

Brian Guest
Manager

Jamie Haley
System Maintenance

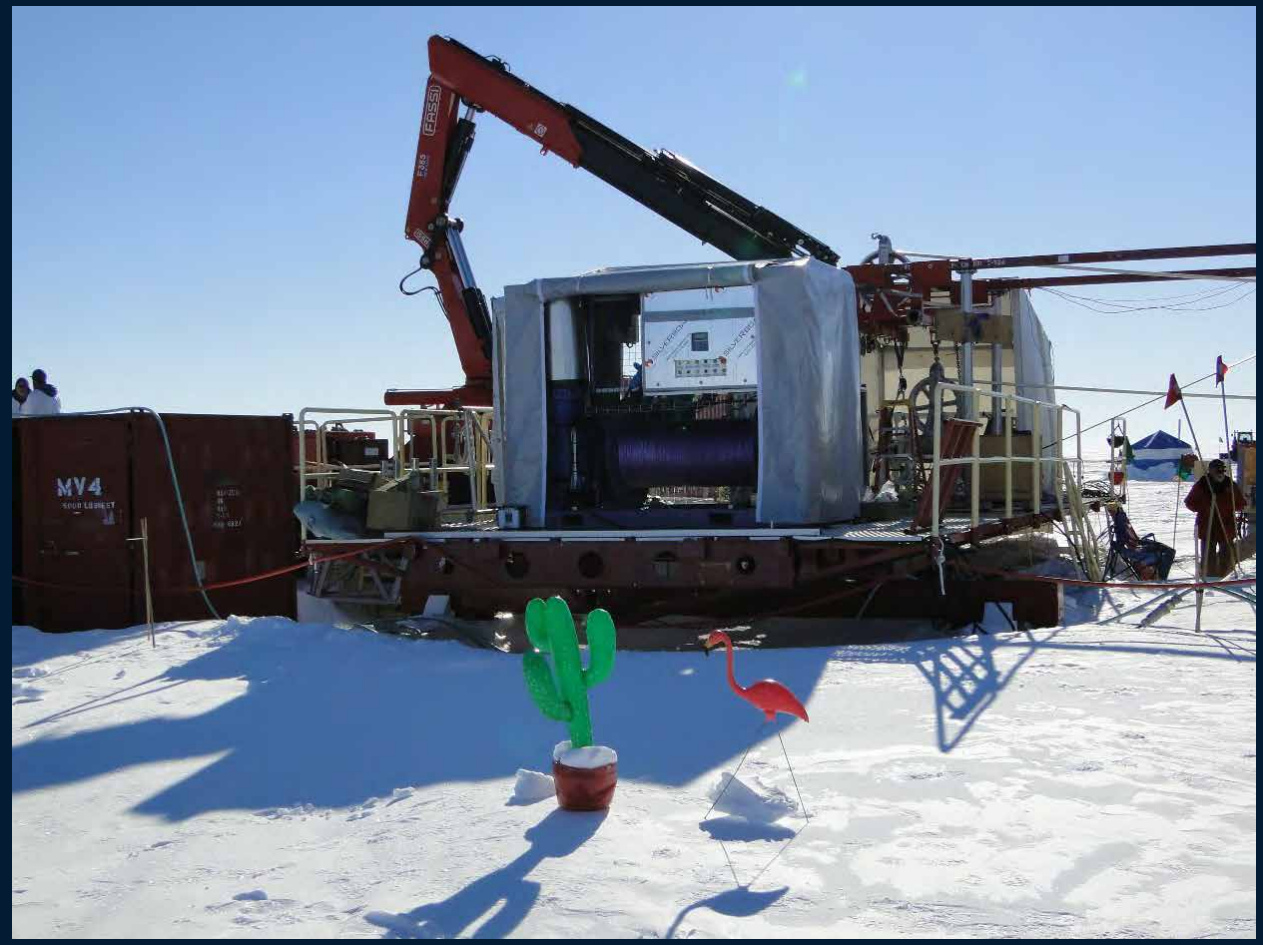
Josh Eaton
Engineering

Mission: Supporting Science

Assets

Assets: Winches

- Moe & Larry
- Curly & Shemp
- Donnie & Marie
- Gloria
- Monk
- Joe
- Cletus & Cooter
- Jed



Assets: Sheaves

- One ½” 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

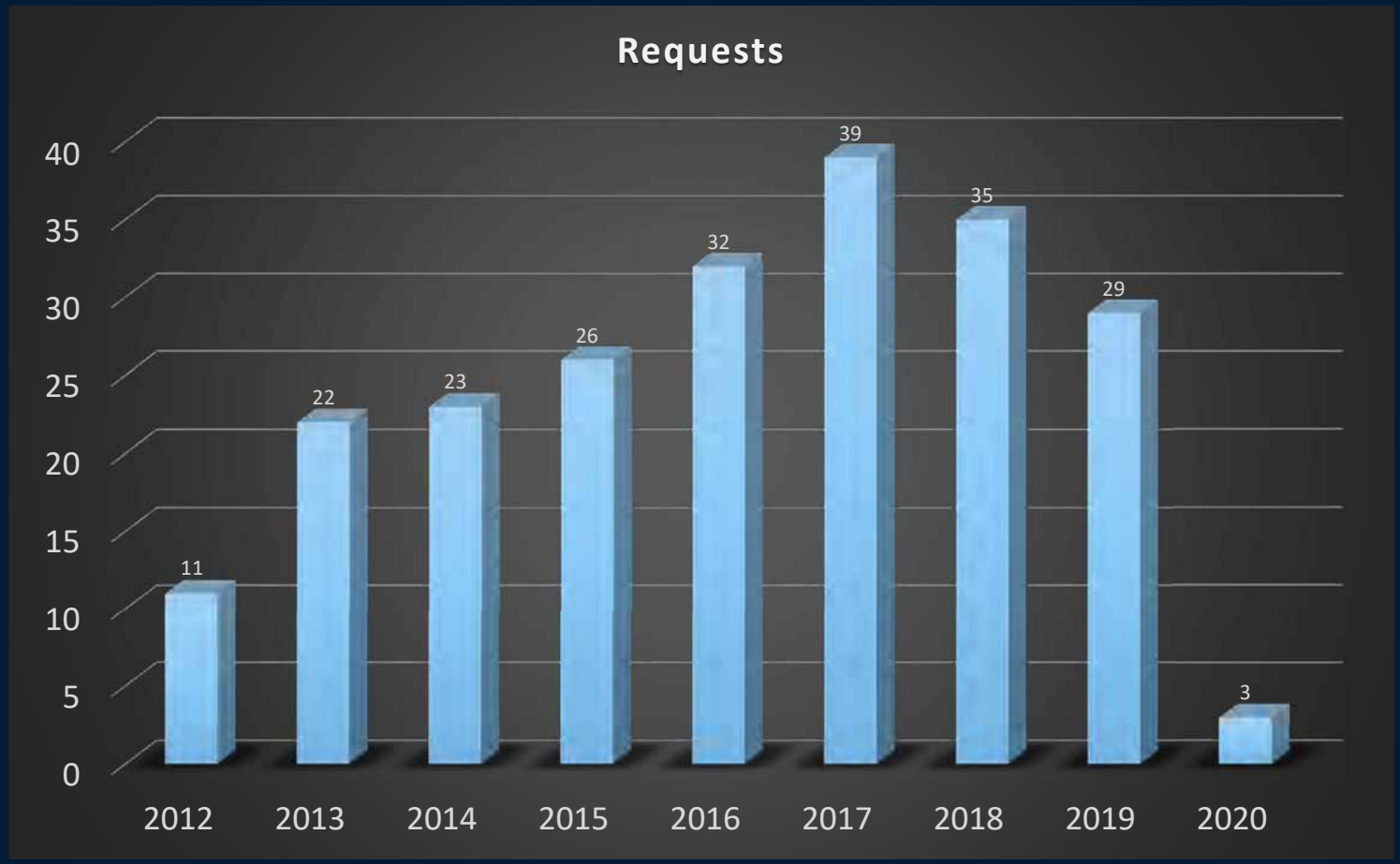
Requests

Decrease in Requests

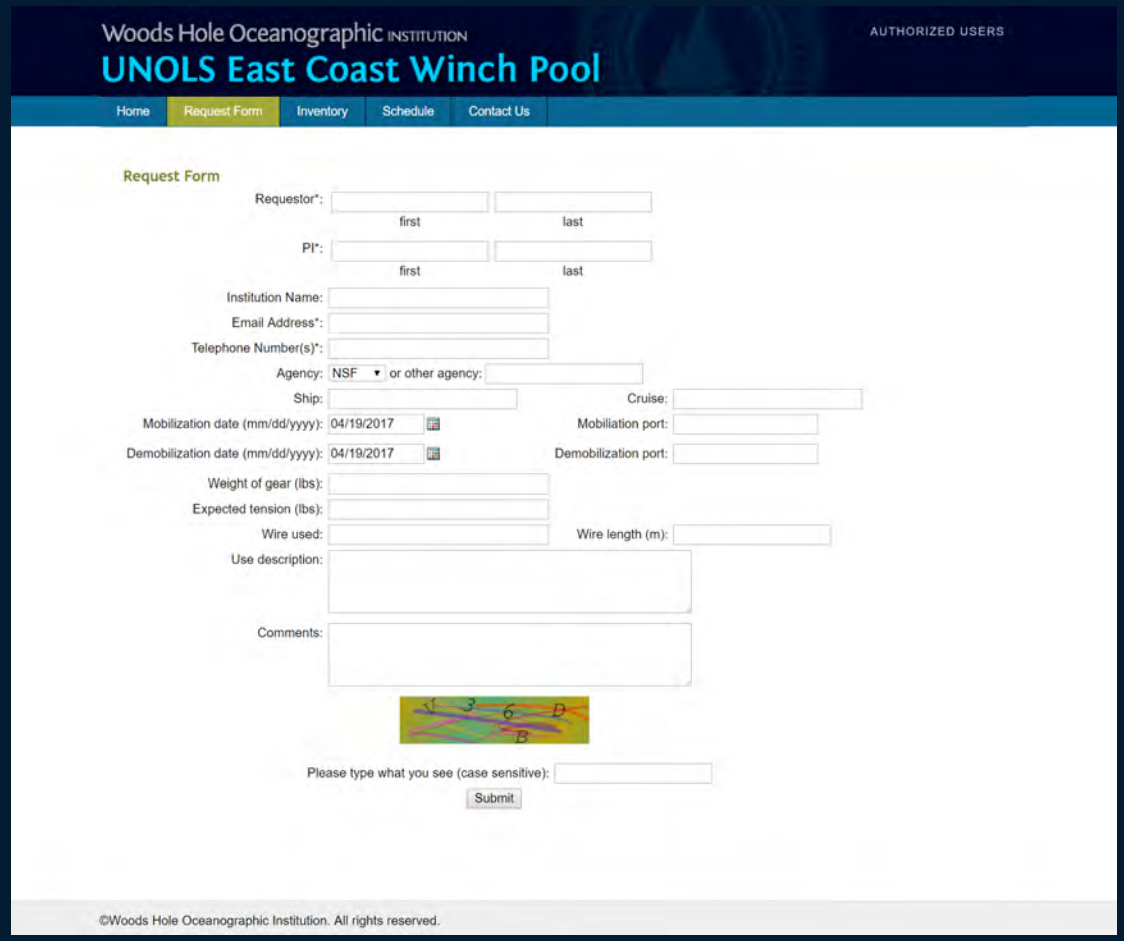
Steady Usage Days

35 Requests for 2018

29 Requests for 2019



Request Form



Issues

Issues

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

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

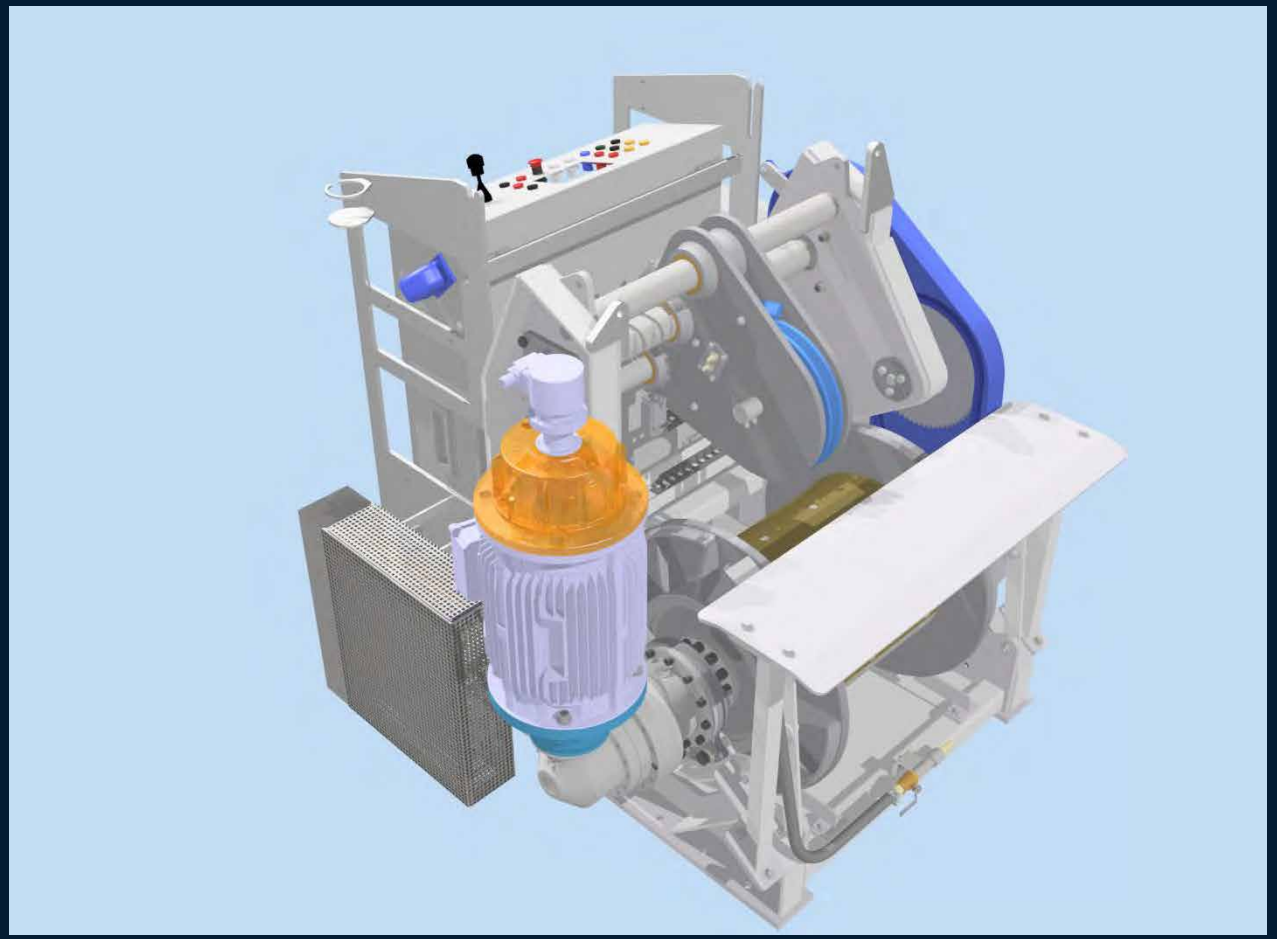
Added Vibration Isolation

Miami Hawboldt Winch

Separate Components

New and Improved!

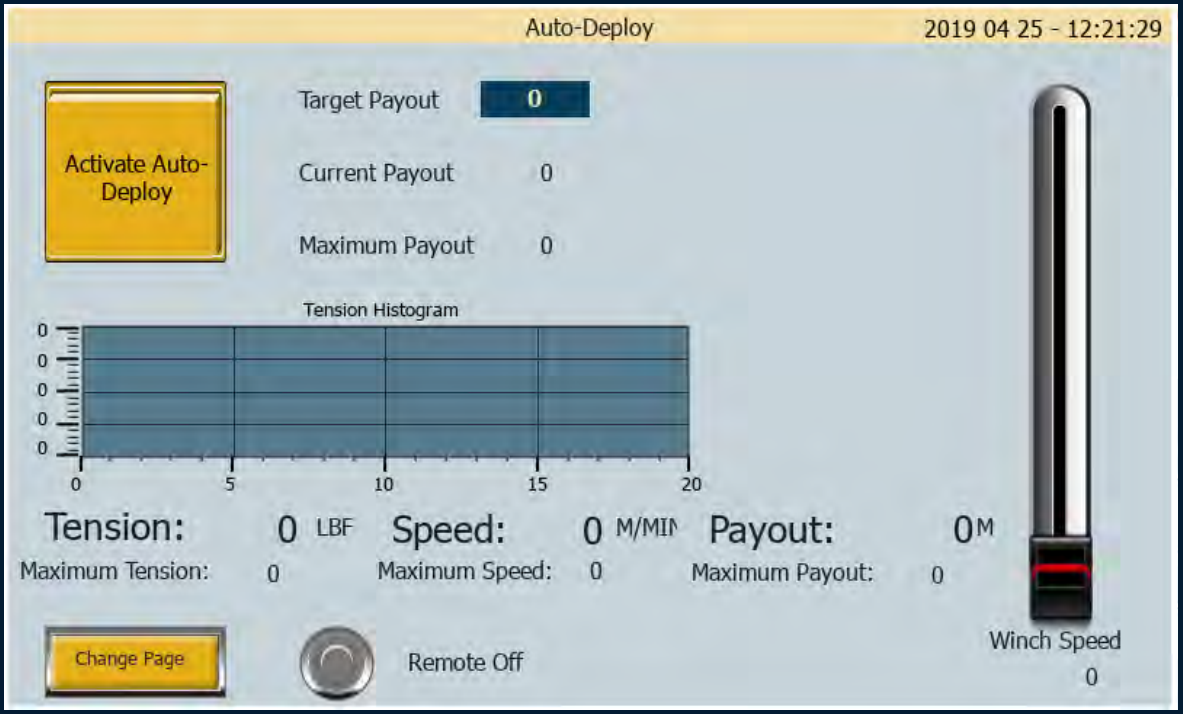
- Controls
- Operator Platform
- Protection Screen
- Improved Slip Ring
- Cup Holder!



Meltric DSN Connectors

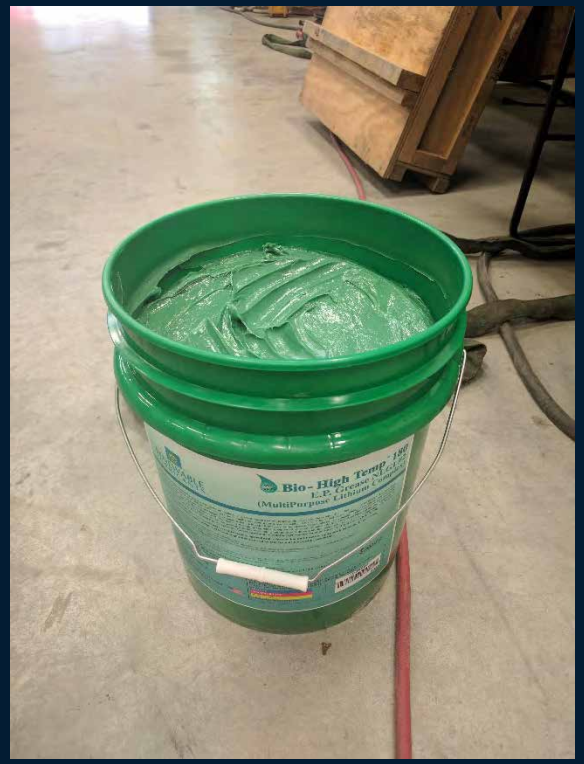
- Changing out old connectors
- Driving Factor: Explosion
- Positive Connection Identification

ECWP Remote



- Universal Remote for Our Winches
- Add Features to Old Winches
- Smaller Tether
- Smaller Connector

Green Lube

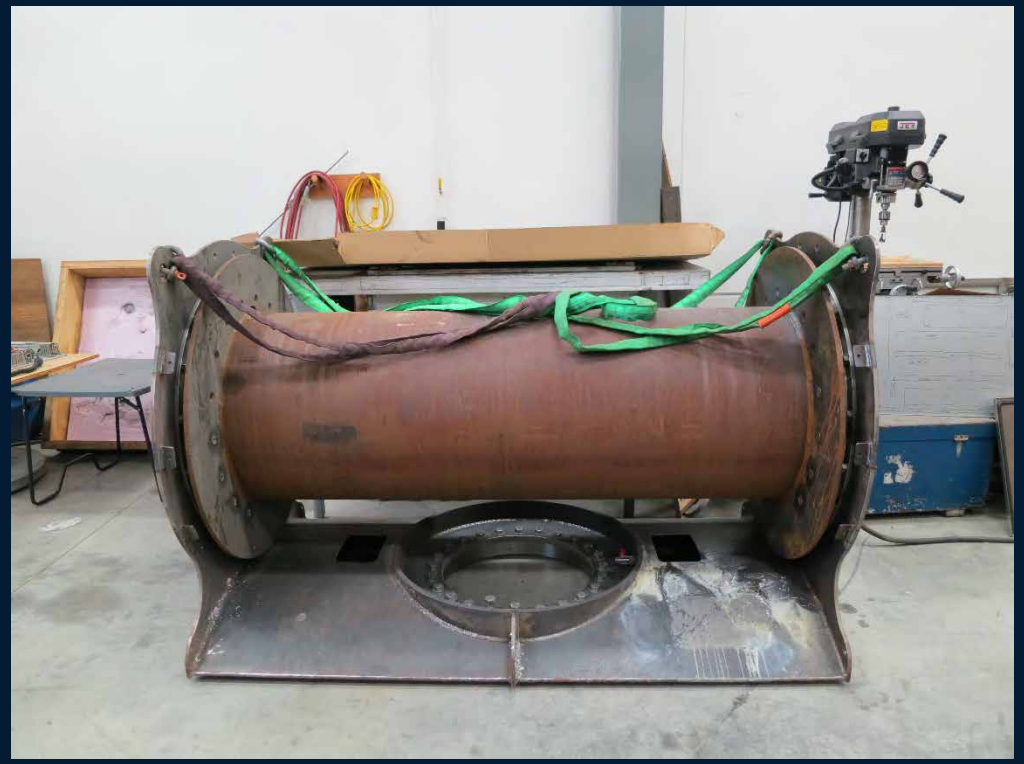


Corrosion Coating: Experiment

Multipurpose Winch

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

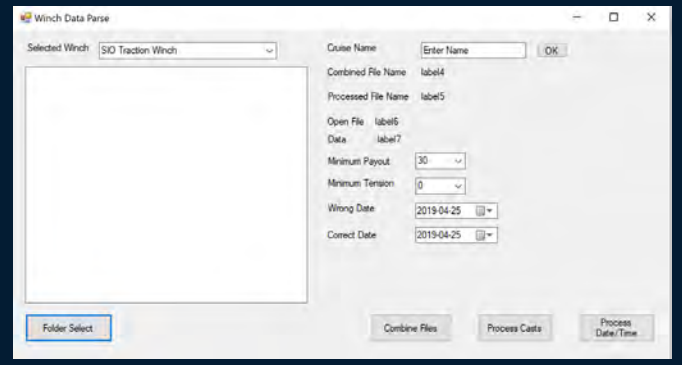
- Provided Tensiometer
- Measuring Methodology
- Spooling Help

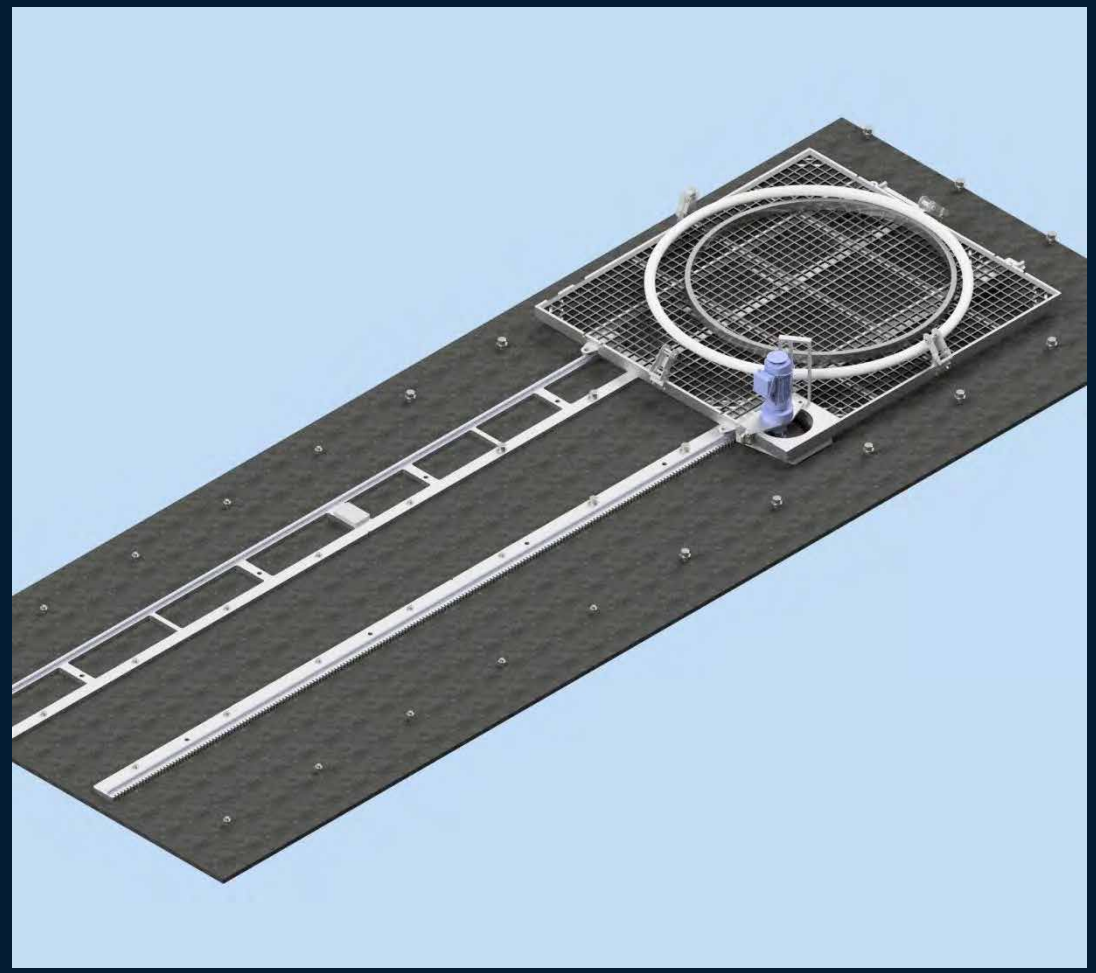
Armstrong

- 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