

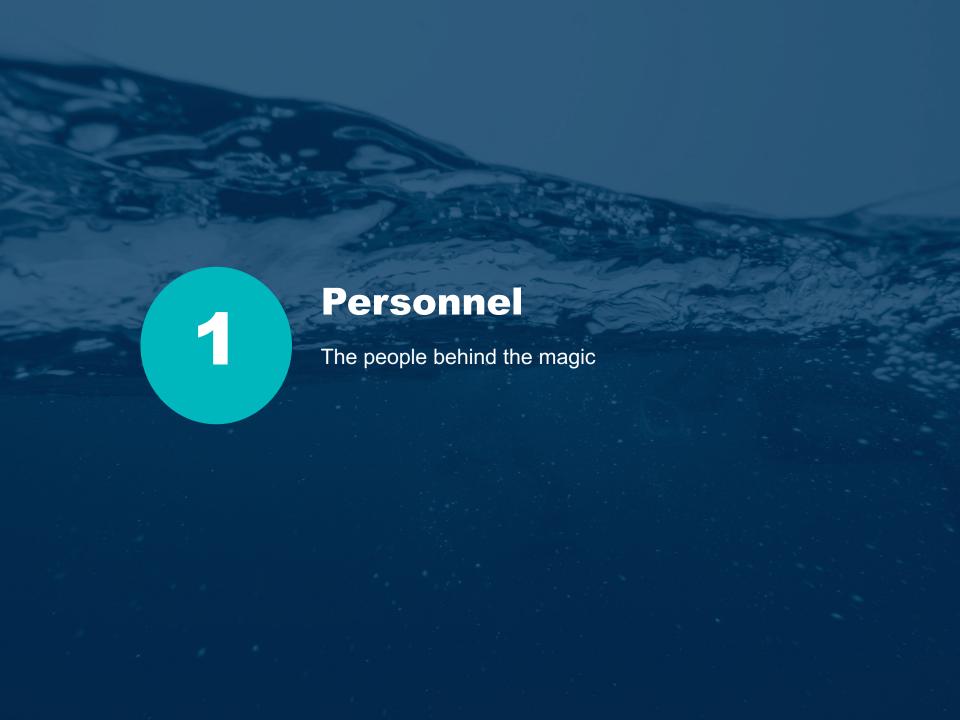


East Coast Winch Pool Update **RVTEC 2023**







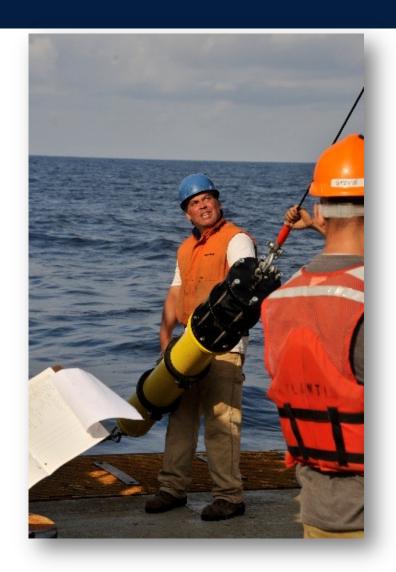


People of the ECWP



Manager

Brian Guest Bookie



System Maintenance

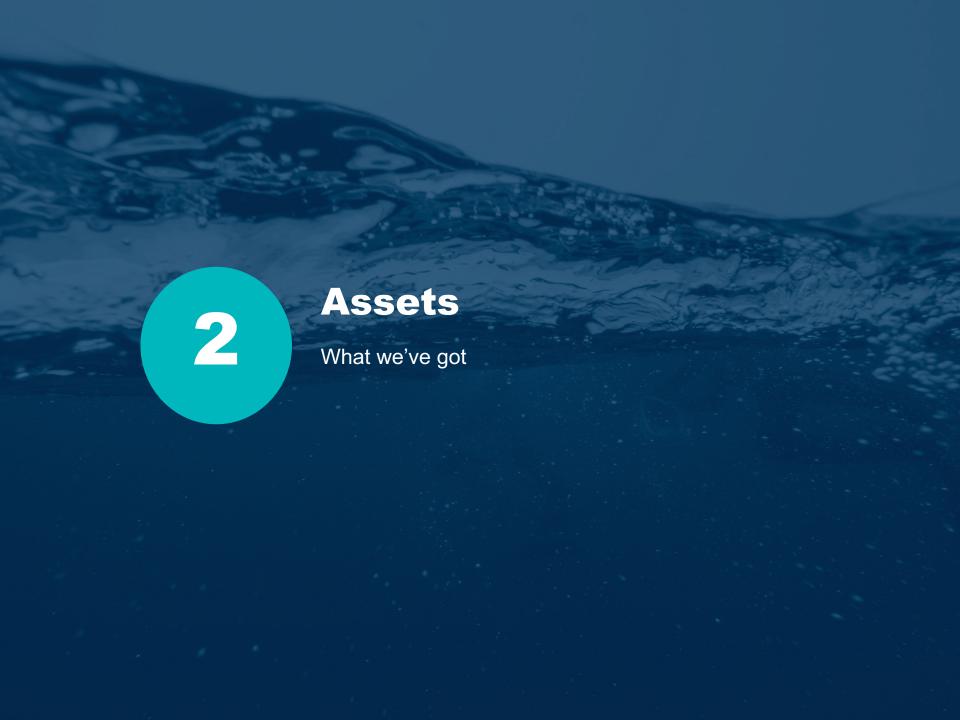
Jamie Haley
Wrenchy



Engineer

Joshua Eaton Brainy









Moe MASH2K-1



Larry MASH2K-2



Curly MASH4K-1



Shemp MASH4K-2



Gloria SPRE-2530 S



Godzilla SPRE-3464



Monk Dynacon 1007



Donnie Dynacon 10030



Marie Dynacon 10030



Joe SPRE- 2648



Cletus & Cooter SD-70



Jed SeaMac



Jay Jay

Sheaves

½" Harken Block

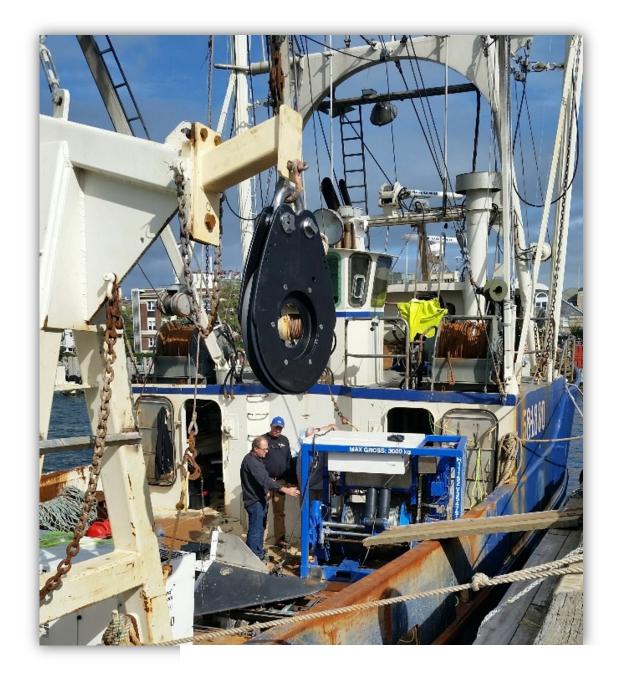
0.322 Harken Block

0.322 Trace Metal Block

36" 0.681 Block

Wide Groove Metering Block

¼ " Trace Metal Block





Other Assets

2 MRUs

Electrical Sliprings

Fiber Optic Rotary Joints

Load Cells

220 to 480 Transformer

Winch Turn Tables

Tensioners

Pine Hill





Tensioners

Barney







Tensioners

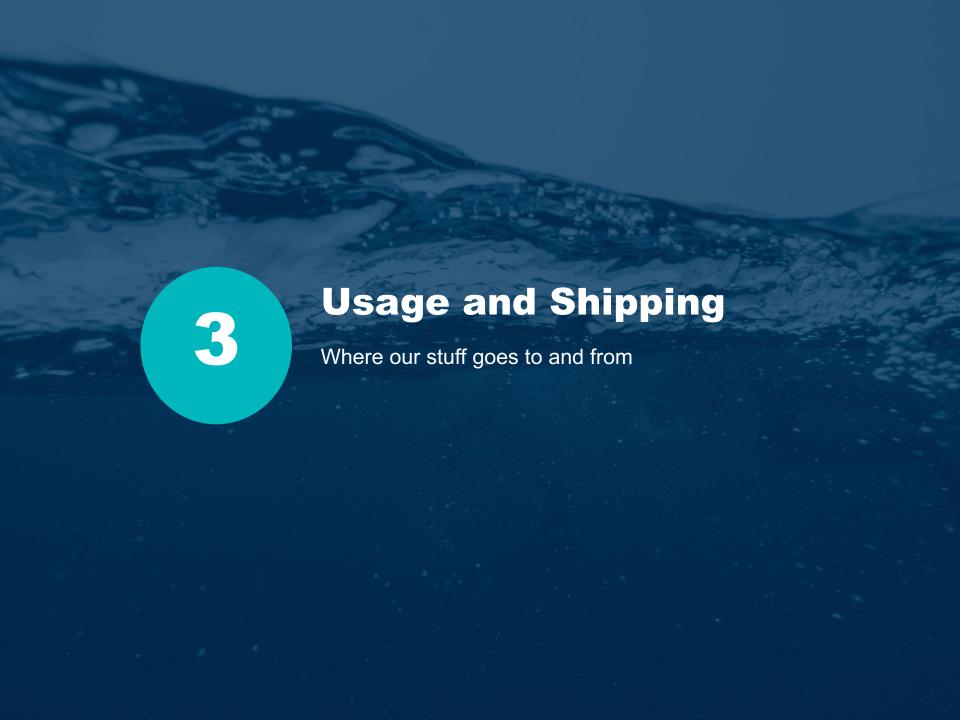
Leitheiser







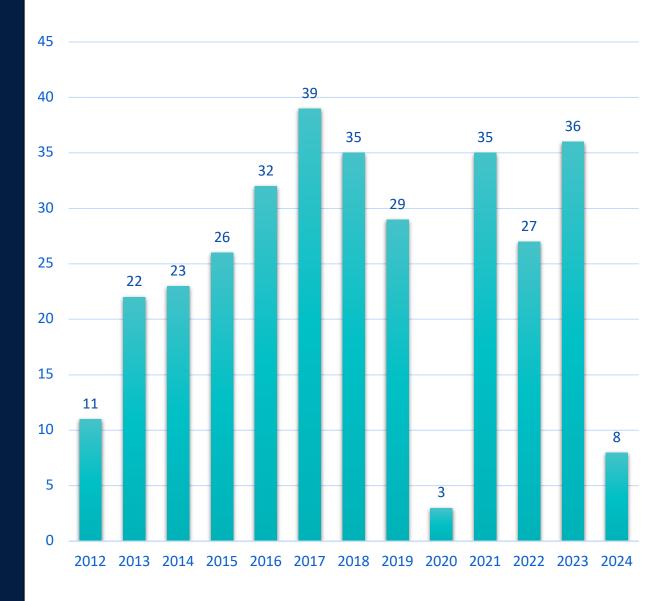




Fulfilled Winch Requests

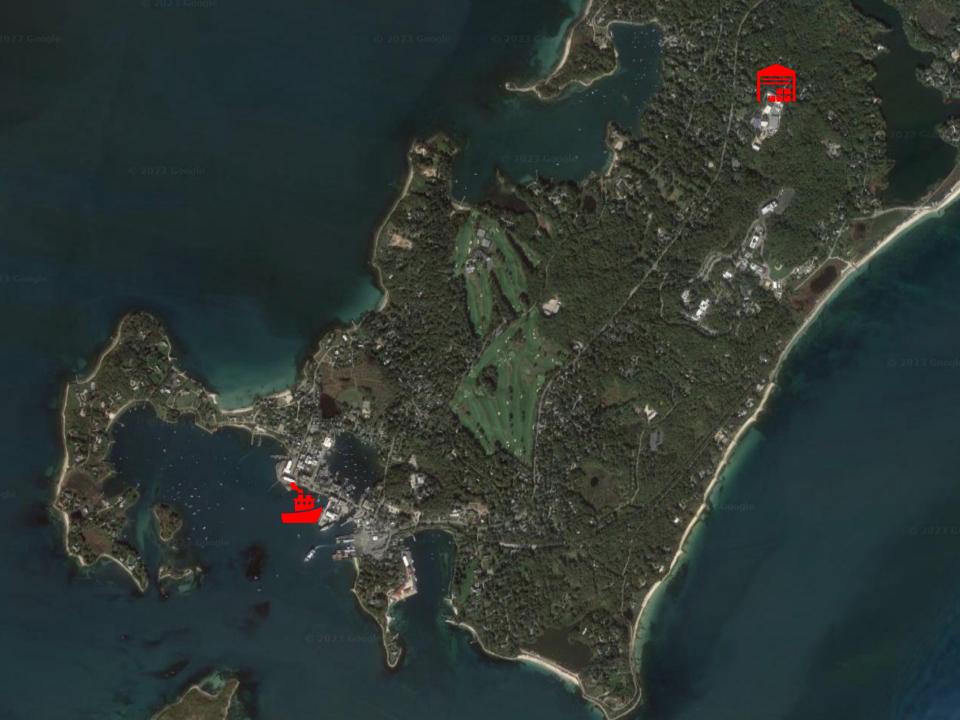
Only 1 winch has not left the shop this year: Donnie

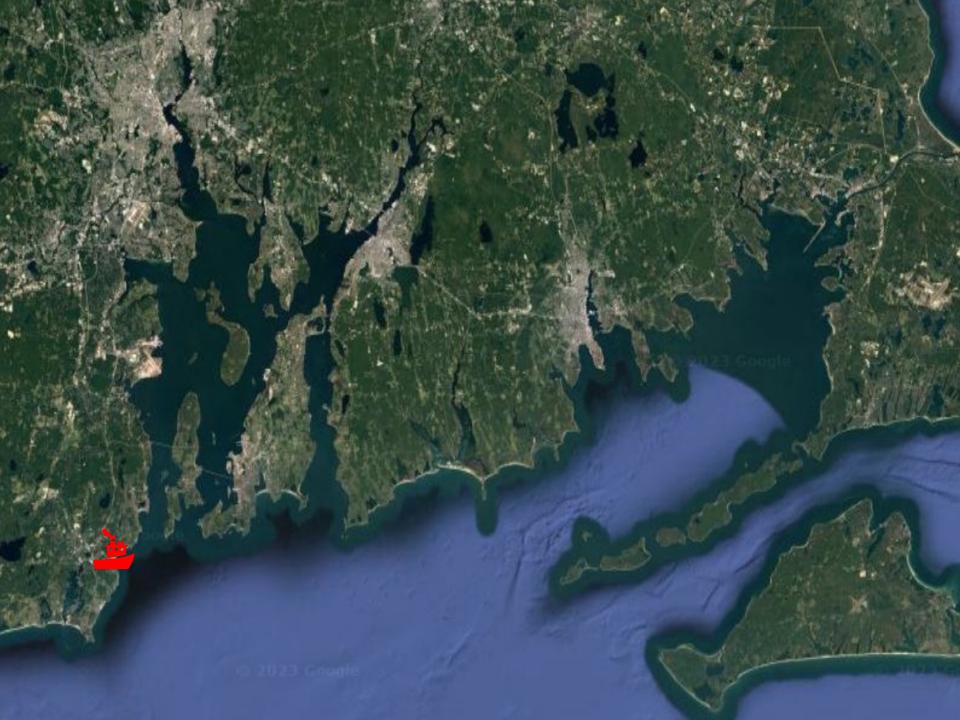
This year has felt busier than past years

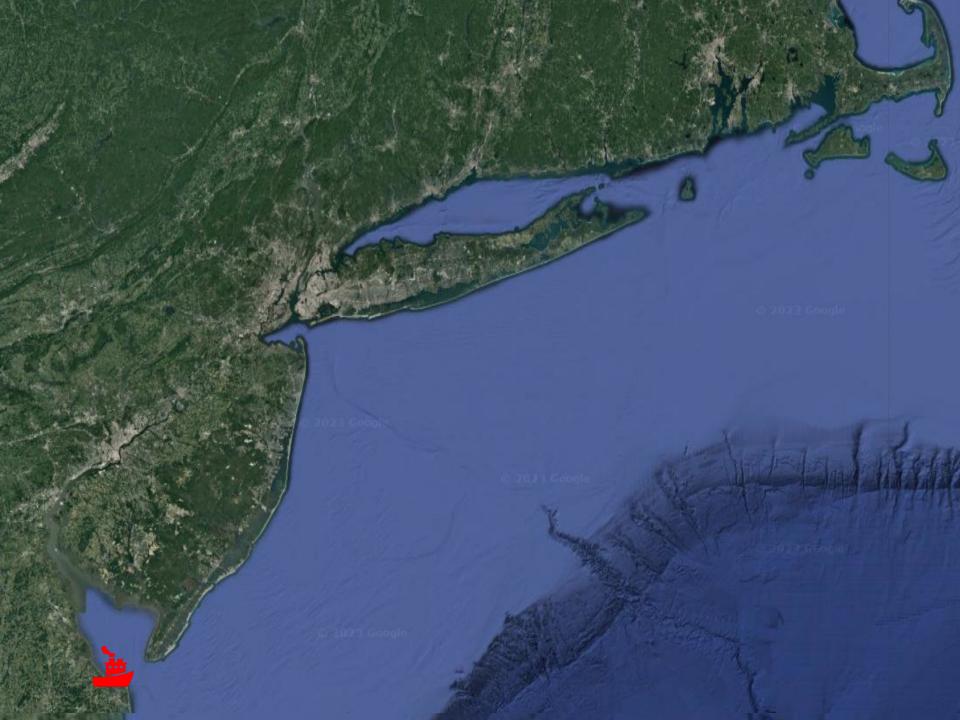


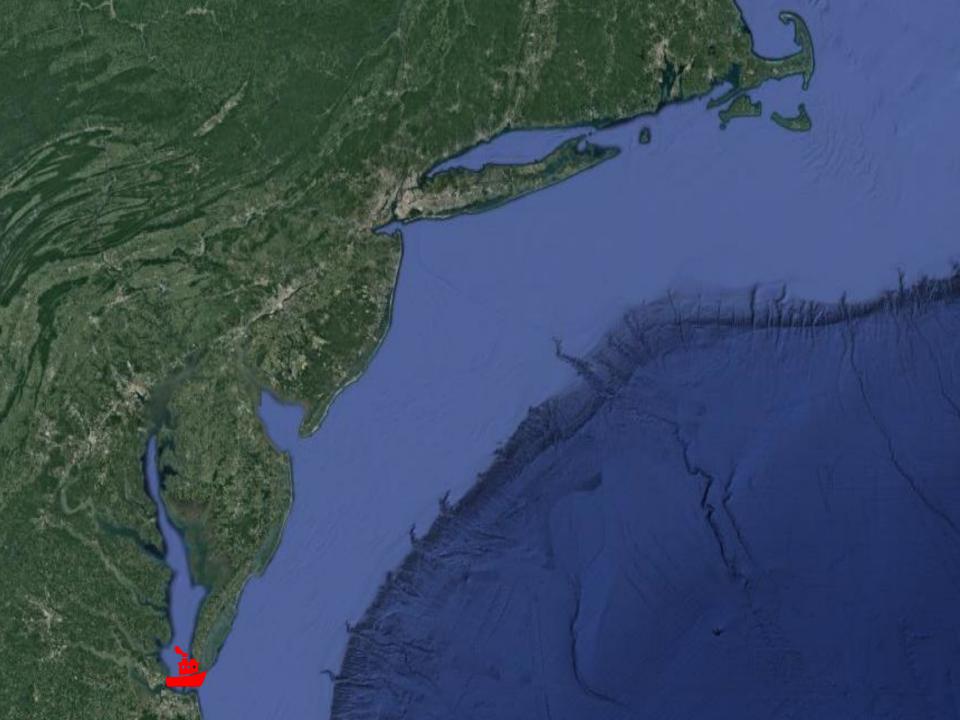
Where have we shipped to?

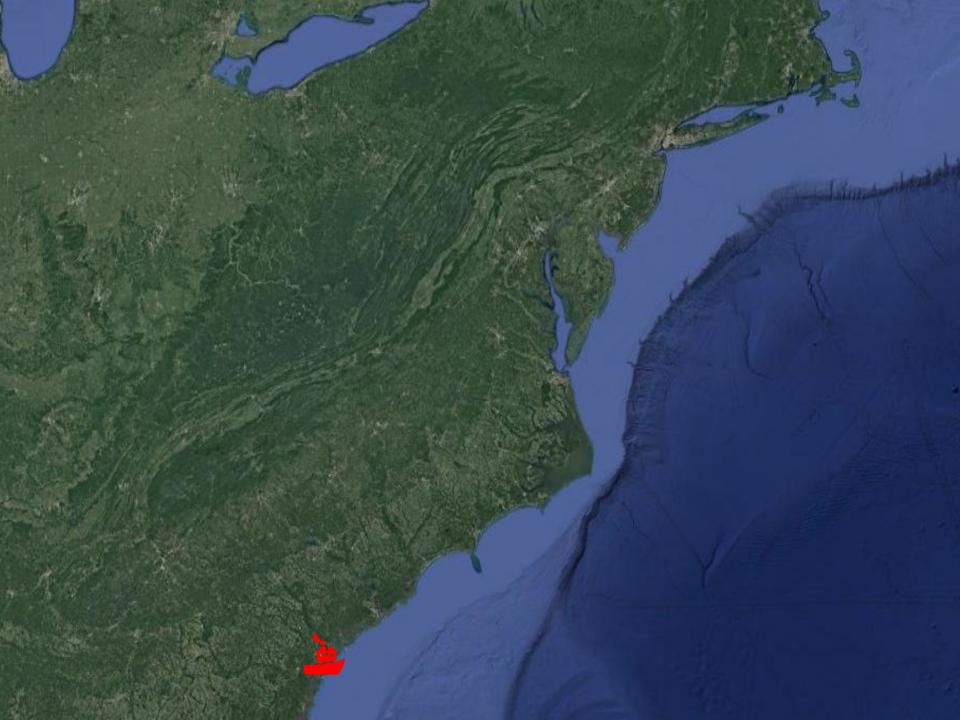


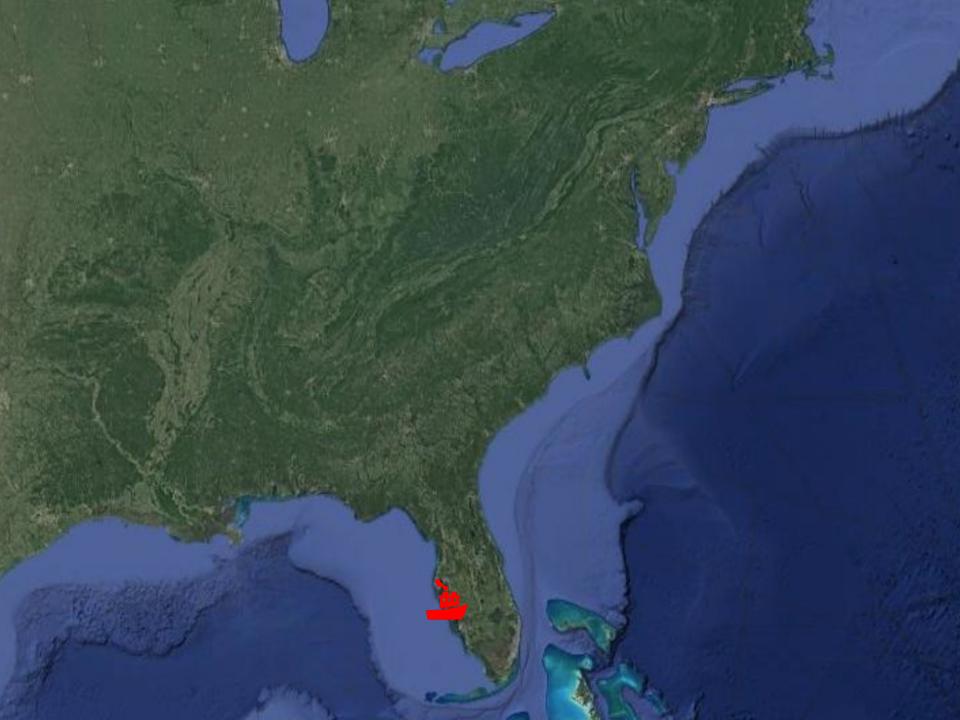




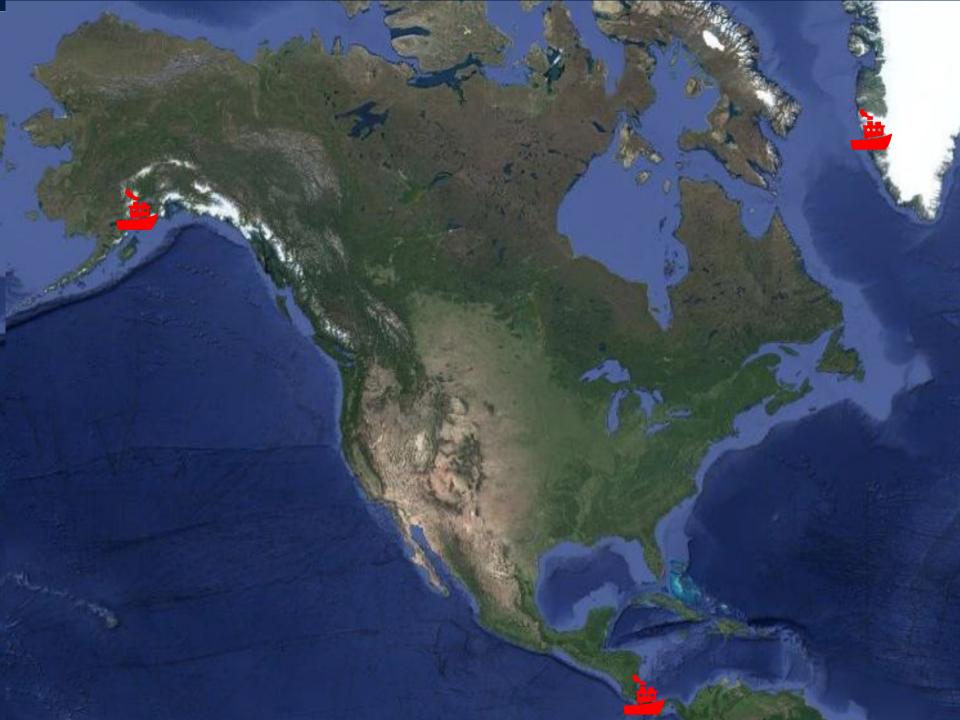




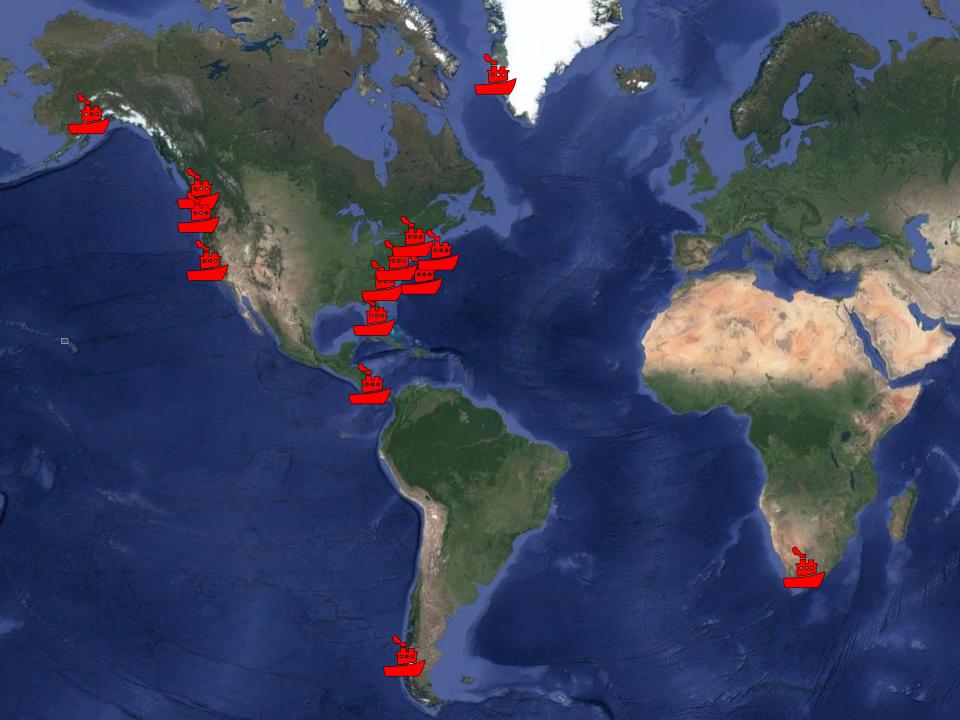




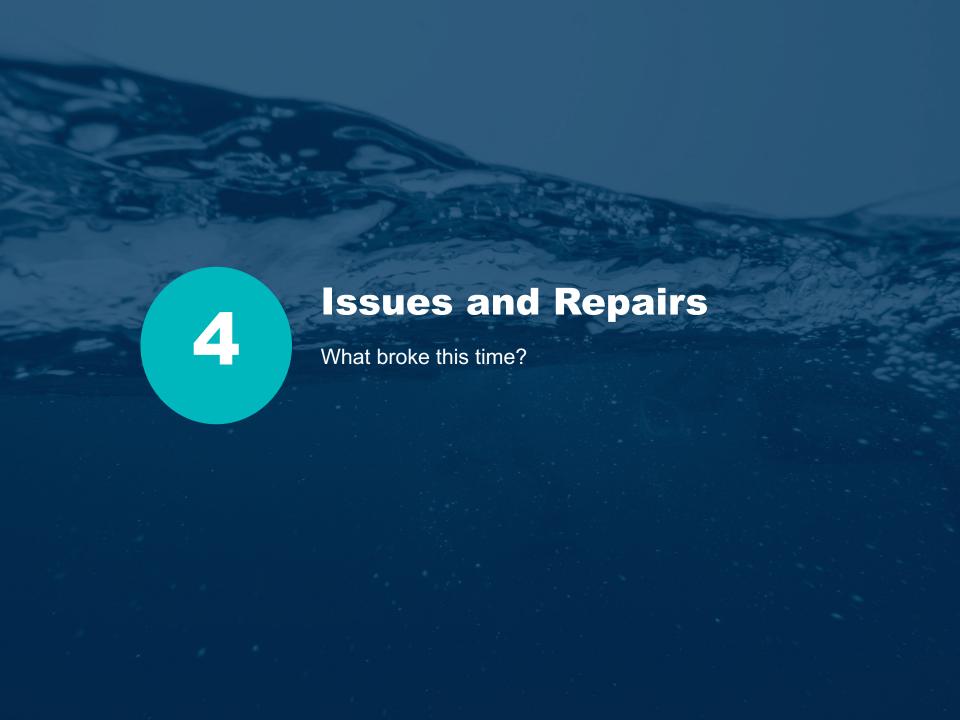












1

Slipring Failure

Gloria's FORJ/Slipring seized up causing it to fail.

We made an adapter plate to use Focal 180s

Problems encountered this year

Enclosure Failure

Return shipping caused damage to the drives and cables of Curly.

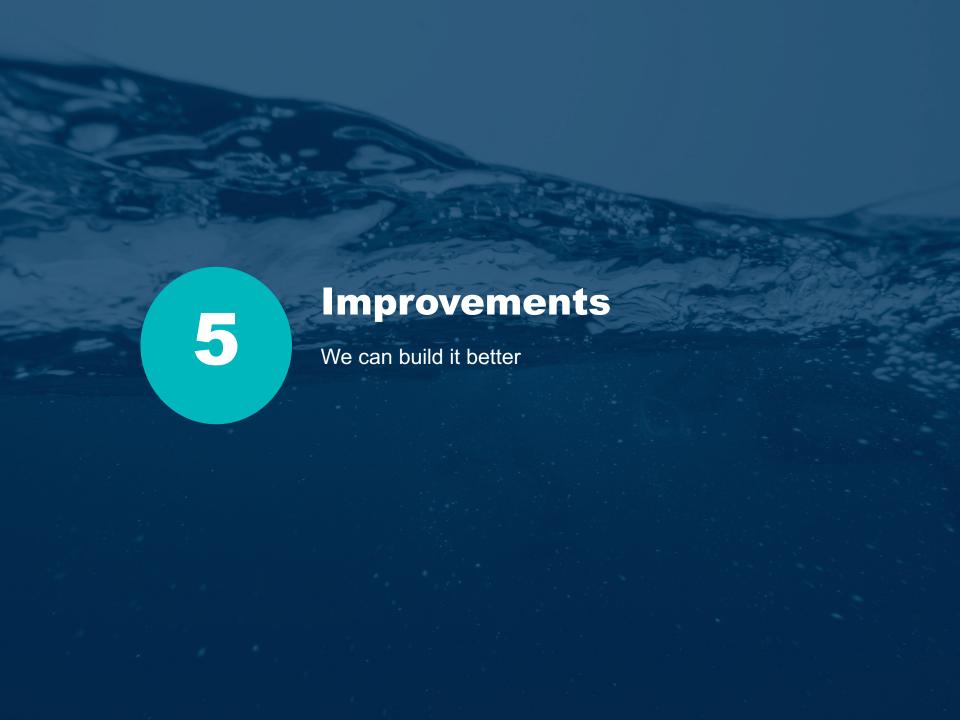
Rebuilt system by replacing drives and cables in time for the next cruise

3 B

Bent Encoder Shaft

Jay Jay's encoder shaft was bent during loading. Temporary repairs were made to allow for the next use.

A permanent fix is underway.



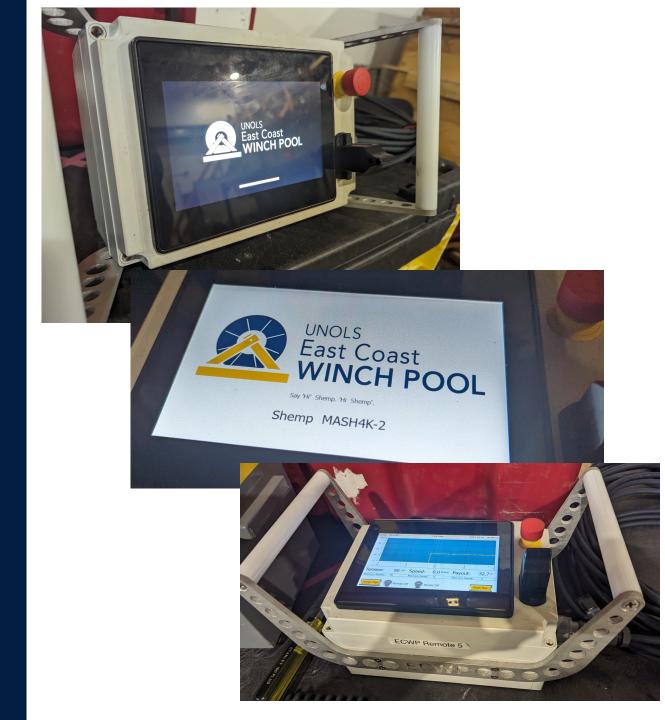
ECWP Remote

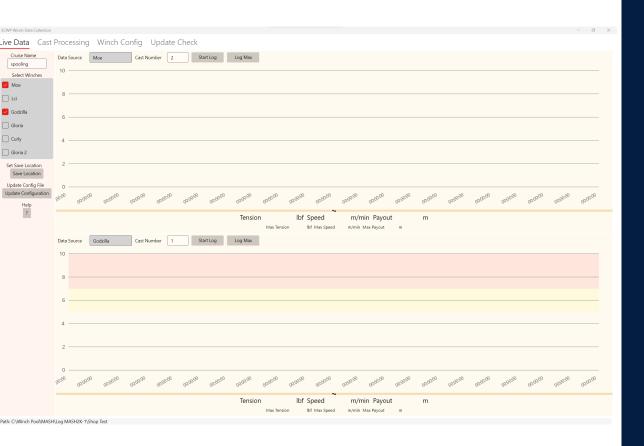
User Interface

Connection Process

Splash Screen

Long Extensions







ECWP Data Collection Program

Supports Additional Winches

Multi-Winch Plotting

Cross Platform

Resizable Display

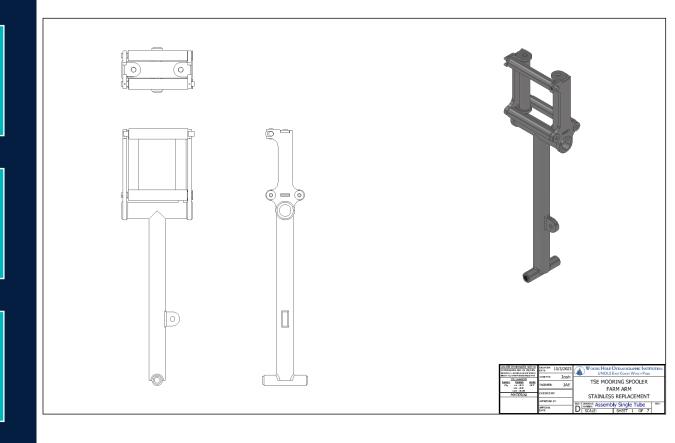
Appendix A Visual Warnings and Alarms

Cletus & Cooter

Stainless
Steel Rollers
(Both)

Stainless Steel Farm Arm (Cletus)

> New Lift Points (Cooter)





Jay Jay

Operator Platform

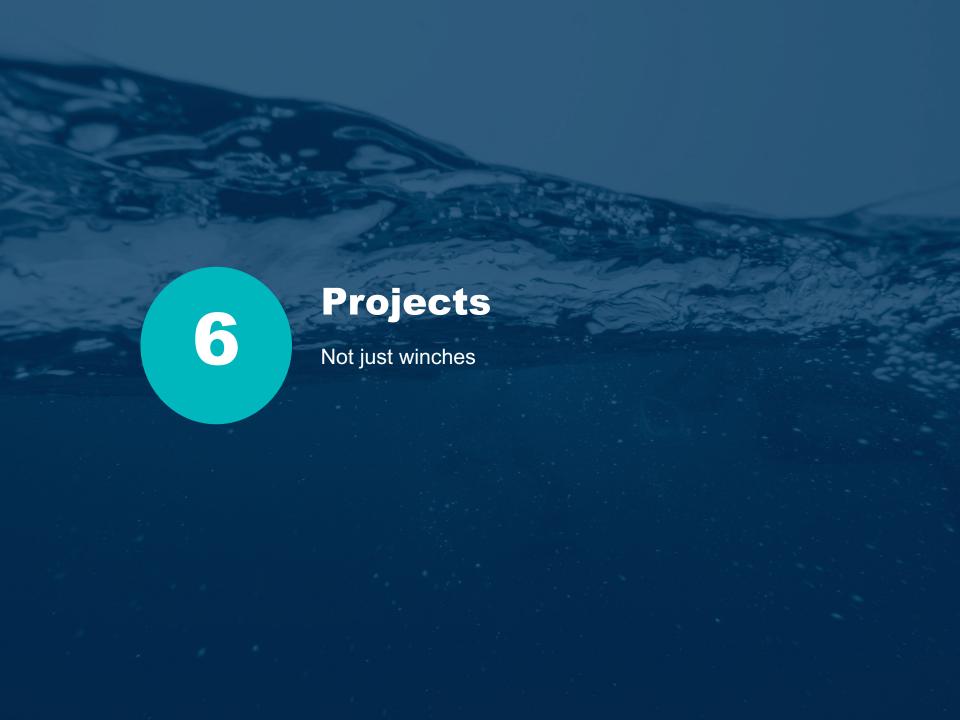
Improved Metering

Godzilla

New Spare Parts Enclosure

> Power Cord Storage

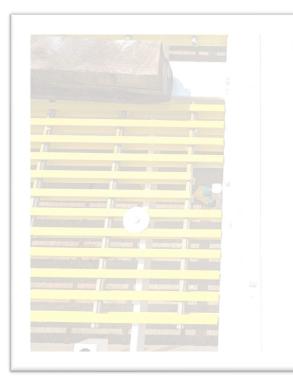




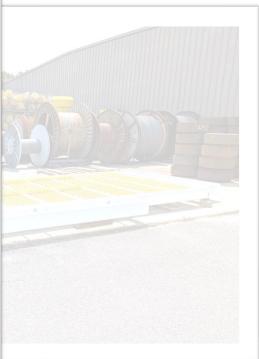












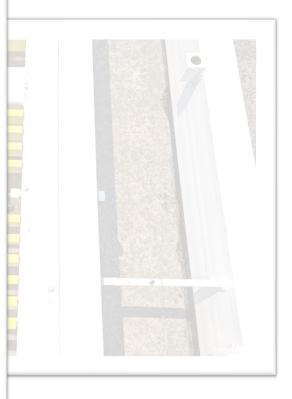












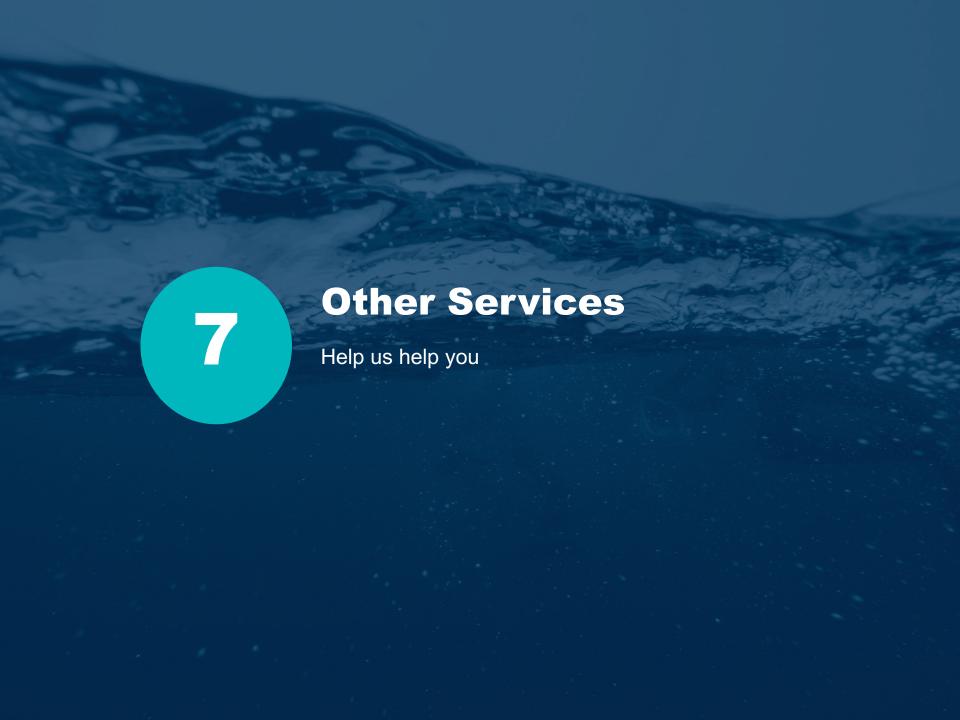






Test Tower





Services

Acquisition Assistance

> **Testing Plans**

Training

LCI-90i **Oversights**

Technical Assistance



UNOLS East Coast Winch Pool

MASH2K Test Plan

The purpose of this test plan is to meet the requirements of UNOAS RVSS Appendix B and to provide the users with safe and functioning equipment. This document seeks to quantify and qualify the series of tests needed and to provide a complete and thorous

These tests must be performed continuous operations. If a piec

2 Tests

2.1 Functional Tests

2.1.1 Verify safe power up Visually inspect the wiring, con-Apply power to the equipment. Turn on the equipment and look

2.1.2 Verify Operation of Cont Check for spring return on joyst Check that juysticks move the re Verify that the E-Stop is function Verify that all additional contro

2.2 Static Tests

2.2.1 Equipment Required

MASH2K

Sheave
 Fower Cable
 Dynamometer
 Overhead Crane
 125% SWT Weight (400)

 Suitable Tension Memb 2.2.2 Bare Drum Static Pull Ter

Wrap a suitable tension membe

Woods Hole Oceanographic

Hawboldt Test Plan

1 Introduction

2.1 Functional Tests

2.1.1 Verify safe power up

Visually inspect the wiring, connector Apply power to the equipment. Turn on the equipment and look for a:

2.1.2 Verify Operation of Controls

Check for spring return on joysticles as Check for spring return on Joyattics at Check that Joyatticks miree the equipm Verify that the E-Stop is functional. Verify that the level-wind controls func Verify that all additional controls func

The purpose of this test plan is to meet the requirements of UNOLS RVSS Appendix B and In provide the users with safe and functioning equipment. This

provide a complete and thorough guid

Woods Hole, Oceanographic continuous operations. If a piece of eq

UNOLS East Coast Winch Pool

Cantilevered Dynacon Winch Test Plan

MS 159, 256 Woods Hale Rood, Weeds Hale, MA 82543

The purpose of this test plan is to meet the requirements of UNOLS RVSS Appendix B and to provide the users with safe and functioning equipment. This document seeks to quantify and qualify the series of tests needed and to provide a complete and thorough guide to those tests.

These tests must be performed twice in every five year period with no longer than 3 years between any two tests for continuous operations. If a piece of equipment is out of compliance it must be tested prior to use.

2.2.1 Equipment Required

Hawboldt

Sheave
 Power Cable
 Dynamometer

· Overhead Crane 125% SWT Weight (5000 lbf)

 Suitable Tension Member 2.2.2 Bare Drum Static Pull Test

Connect the tension member to the sh-Using the winch controls fully exercis-

2.1.1 Verify safe power up

Visually inspect the wiring, connectors, hydraulic lines, and controls for problems. Apply power to the equipment.

Turn on the equipment and look for any faults.

2.1.2 Verify Operation of Controls

Check for spring return on joysticks and momentary switches. Check that joy-ticks move the equipment in the cornect direction. Verify that the E-Stop is functional.

Verify that the level wind controls function property Verify that all additional controls functional

7.7 Static Tosts

Cautilevered Dynason

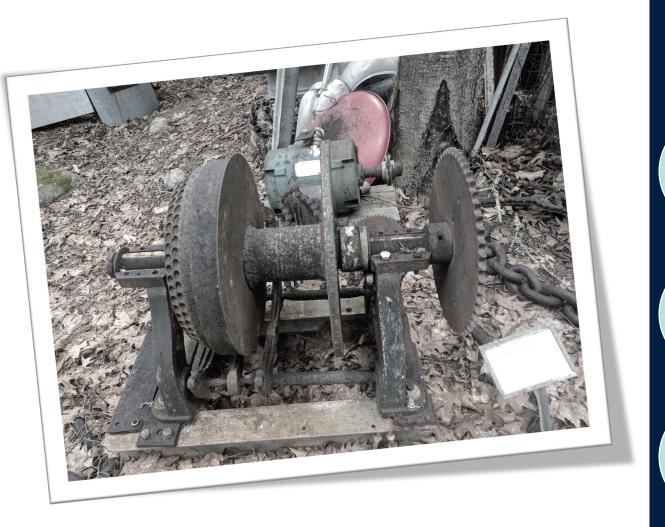
Cautilevered Dynason
 Sheave
 Power Cable
 Dynamometer
 Overhead Crane
 125% SWT Weight (4375 lbf)

Suitable Tension Member

2.2.2 Bare Drum Static Pull Test

Wrap a suitable tension member on the drum with a minimum of 8 wraps. Connect the tension member to the shop dynamoneter and the dynam Using the winch controls fully exercise the maximum haulback force.





Upcoming

Additional Tracemetal Winch

Replacement for Jed

Test Tower Completion

Questions?

WOODS HOLE OCEANOGRAPHIC INSTITUTION