ECWP UPDATE

Joshua Eaton

UNOLS East Coast Winch Pool

Personnel

Brian Guest
The Penny Pincher

Jamie Haley
The Grouch

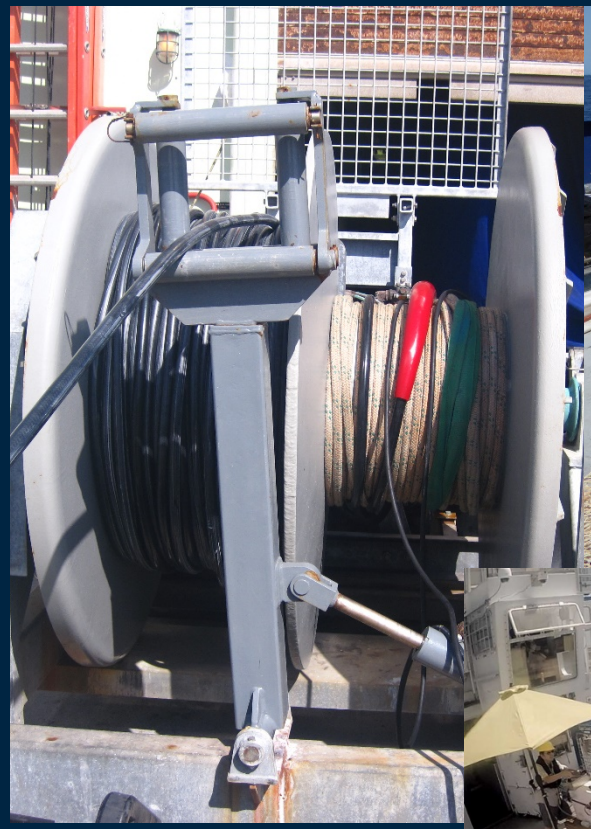
Josh Eaton
The Space Cadet

Assets

Assets: Winches

- Two MacArtney MASH2000
- Two MacArney MASH4000
- Two Dynacon Model 10030
- One Dynacon Right Angle

  GEOTRACES
- One Hawboldt Multipurpose Winch UDel
- TWO TSE Mooring Spoolers
- One Sea-Mac 1300



Assets: Sheaves

- One ½” Harken Block
- One 36” diameter 0.681 Block
- 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
- TSE Bull Wheel Tensioner
- 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

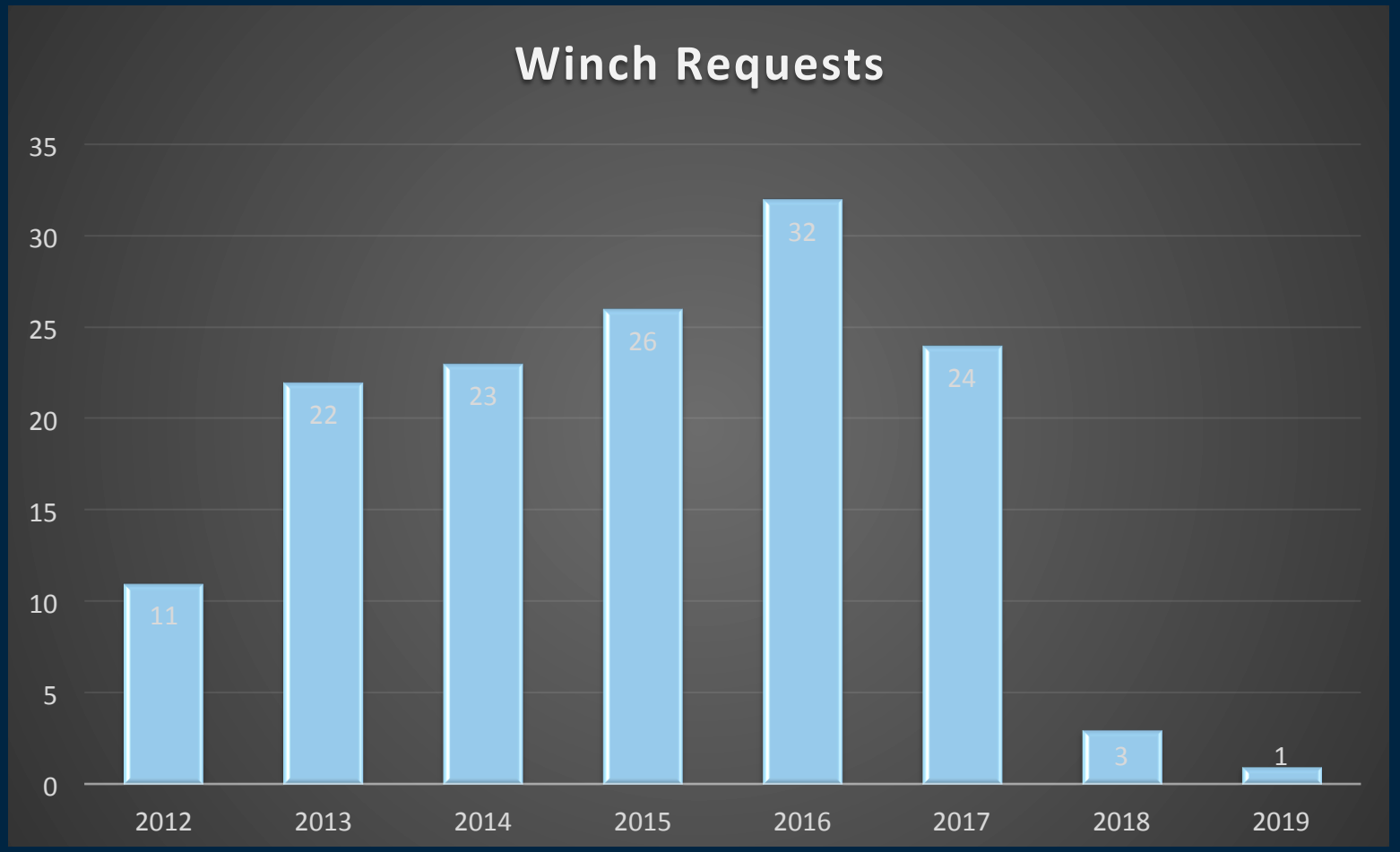
Utilization

Requests

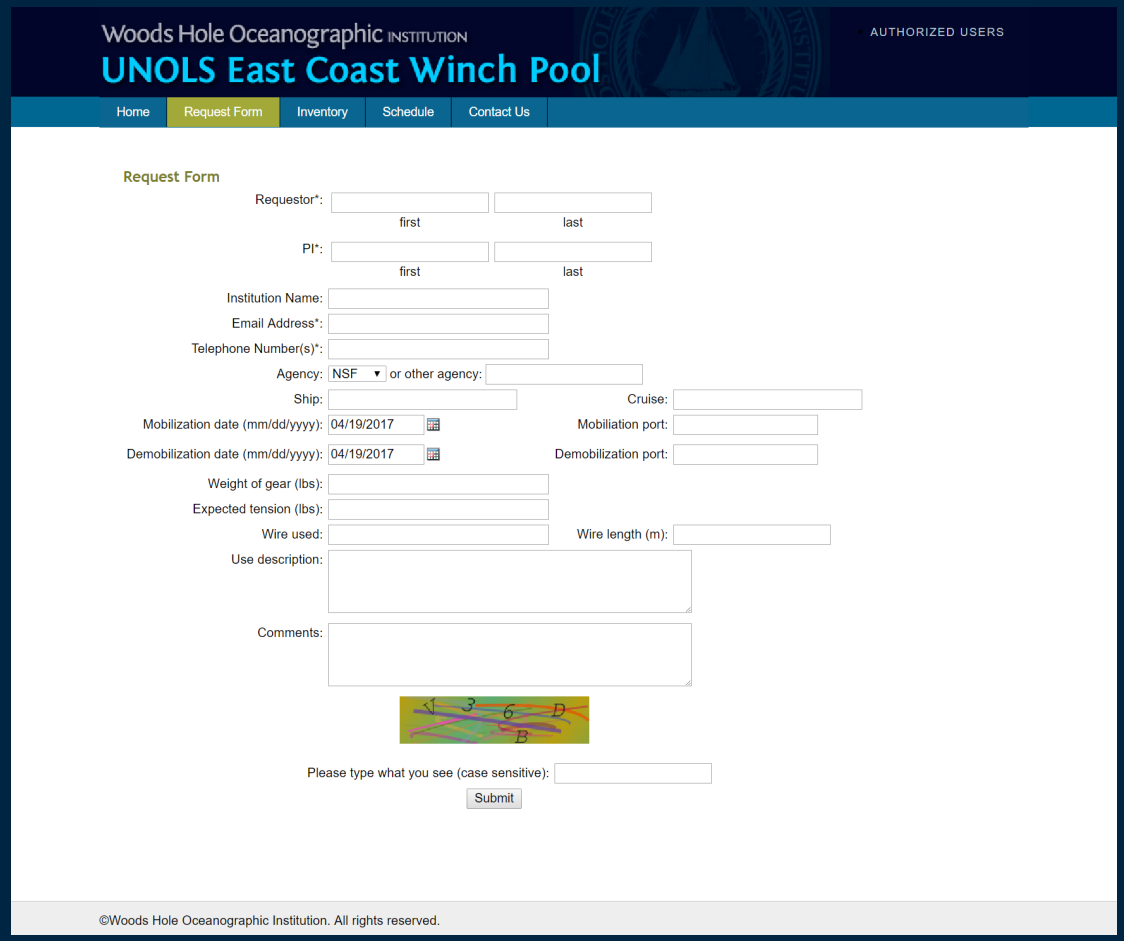
Decrease in Requests

Increase in Usage Days

24 Winch Requests



Request Form

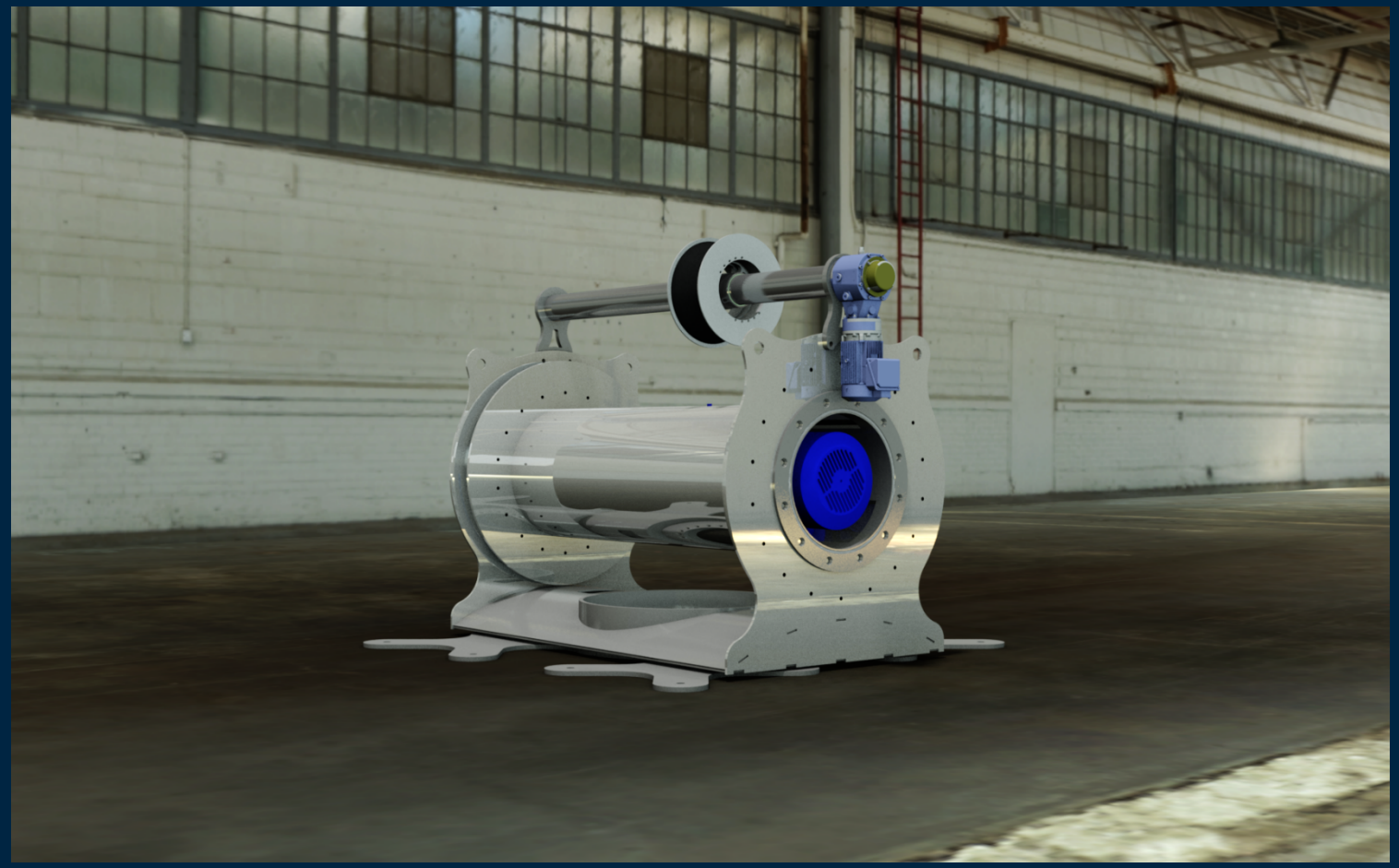


Projects

Upgrades and Repairs

- MASH Winch Cabinet Replacement
- LCI-90i Upgrades
- Upgraded Dynacon 10030 to Include Line Monitoring
- Repaired Dynacon 10030 Levelwind
- Corrosion Coating Experiment
- MASH Roller Replacement Version 2.0
- MASH Winch VFD Repair

Multipurpose Winch

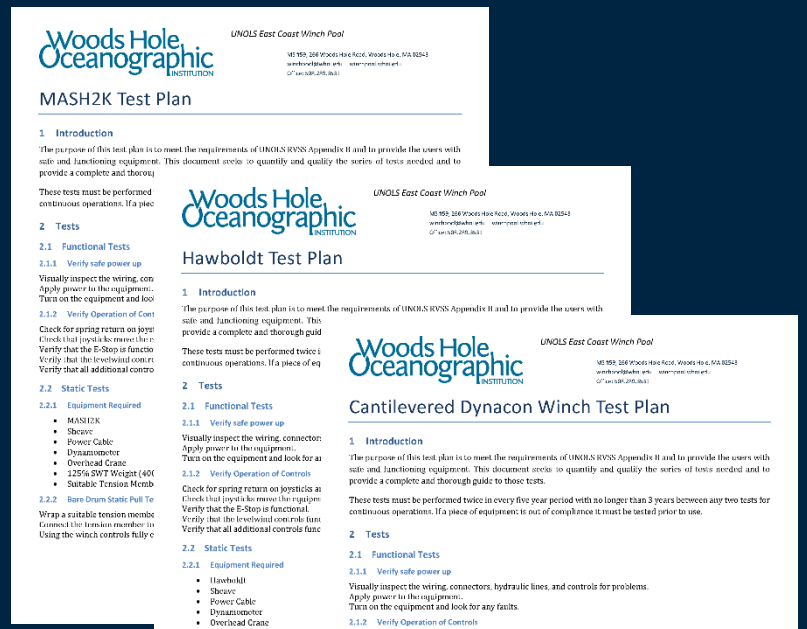


Services

Services

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

Plans: Testing and Analysis



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MASH2K Test Plan

1 Introduction

2 Tests

2.1 Functional Tests

2.1.1 Verify safe power up

2.2 Static Tests

2.2.1 Equipment Required

- MASH2K
- Sheave
- Power Cable
- Dynamometer
- Overhead Crane
- 125% SWT Weight (40(
- Suitable Tension Memb

2.2.2 Bare Drum Static Pull Te

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Hawboldt Test Plan

1 Introduction

2 Tests

2.1 Functional Tests

2.1.1 Verify safe power up

2.1.2 Verify Operation of Controls

2.2 Static Tests

2.2.1 Equipment Required

- Hawbold(
- Sheave
- Power Cable
- Dynamometer
- Overhead Crane
- 125% SWT Weight (5000 lbf)
- Suitable Tension Member

2.2.2 Bare Drum Static Pull Test

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Cantilevered Dynacon Winch Test Plan

1 Introduction

The purpose of this test plan is to meet the requirements of UNOLS RVSS Appendix R 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 Tests

2.1 Functional Tests

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 joysticks move the equipment in the correct direction.
Verify that the E-Stop is functional.
Verify that the levelwind controls function properly.
Verify that all additional controls functional

2.2 Static Tests

2.2.1 Equipment Required

- Cantilevered Dynacon
- 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 dynamometer and the dynamometer to the test load point.
Using the winch controls fully exercise the maximum haulback force.

Winch Acquisition

Acquisition Assistance

- Udel/ECWP: New Multi-Purpose Winch
- Uconn/NERC: Fast Deployment Winch
- General Winch Specifications

UDEL Multipurpose Winch FAT

Future Projects

Upcoming Projects

- Next Generation Levelwind
- Heave Sensor
- Winch Test Platform
- Improve Website
- Document Repository