Report to UNOLS Fleet Improvement Committee
Bruce Appelgate, November 2017
ROV Trident
General Specifications

Depth: 2,000 meters
Payload: 74.5 kilograms
Crew: 2 to 3 persons per 12-hour shift

Power Requirements:
- Control Van: 480v/3ph/60Hz/60A
- Winch: 480v/3ph/60Hz/60A

Deck Space:
- Control Van  9000 lbs  8’ x 20’
- Winch       3000 lbs  6’ x 8’
- ROV         895 lbs   60” x 39” x 48”

Navigation: USBL (portable pole mount)
Camera (aft)
SeaBird CTD
Navigation transponder
Color Camera (Pegasus)
Compass & thermometer
HD Camera (SIDUS)
Altimeter (Valeport)
Lasers (15 cm)
Retractable sample basket

Sonar (BlueView)
Camera (basket)
Lights (upper)
Lights (lower)
Manipulator
DOER SeaMantis
five-function
2017 Activities

• Hardware and software integration of Greensea Inc. Balefire topside control system in January 2017

• Commissioned control system on R/V Sally Ride, February 18-25, 2017
Improvements, Changes, Modifications

• Additional tuning of control software
• Integration of Impact Subsea ISD400 AHRS (motion sensor)
• Reconfiguration of control van to fit operational features of Greensea system
• Replacement of control van networking components
• Preparations for 2018 cruise
ROV *Trident*  
*A 2,000 meter capable portable Remotely-Operated Vehicle*

Available for use worldwide now.  
Costs charged by usage day rate plus shipping.

**How to use *Trident***

Contact the ROV group at Scripps:  
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