Pelagic Research Services (PRS) 2015 – Inaugural Operational Year

Ocean Networks Canada – Barclay Canyon Node Repair

NOAA Fisheries - Red Tree Coral (*Primnoa pacifica*) Habitat Assessment, Southeast Alaska

Sea Trials – Pelagic's deep water ROV System Odysseus



PRS – Serving the marine conservation, ocean industry and ocean science communities

- Deep Sea and Shallow Water Science Class ROV's
- Research Vessel's
- Expedition planning and implementation Soup to Nuts
- Subsea and offshore Engineering and Manufacturing
 - Developing and supporting the tools to support ocean research













Ocean Networks Canada – Barclay Canyon Node Repair

- > 24 hour operations
- Close coordination and work with Global Marine Cable Ship Wave Venture
- > 17 dives on Barclay Node Repair, 1 dive for experiment deployment 75 hours dive time with 60 hours on bottom
- Damaged 11,000 lbs. node recovered, new node installed, HV connection failed to perform as designed, new node recovered







Global Marine

ST204

C.S Wave Venture

28/01/2015 06:20:09

62037

Barclay Canyon Node Dive 01

Lask Survey

Rov Long -12609 49367

Roy Lat. 4820.75324

ROV Kp. 2.307 Rov Depth 649.60



ST204 C.S Wave Venture

28/01/2015 05:58:58

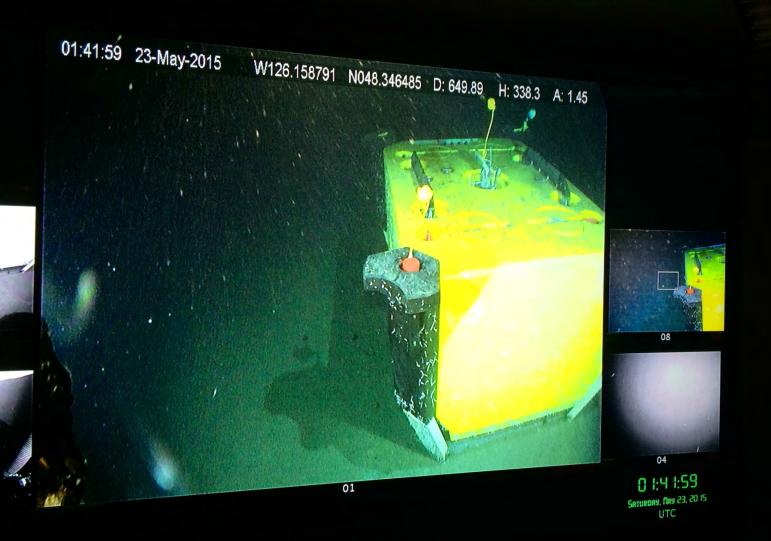
55927

Barclay Canyon Node Dive 01

Tank Survey



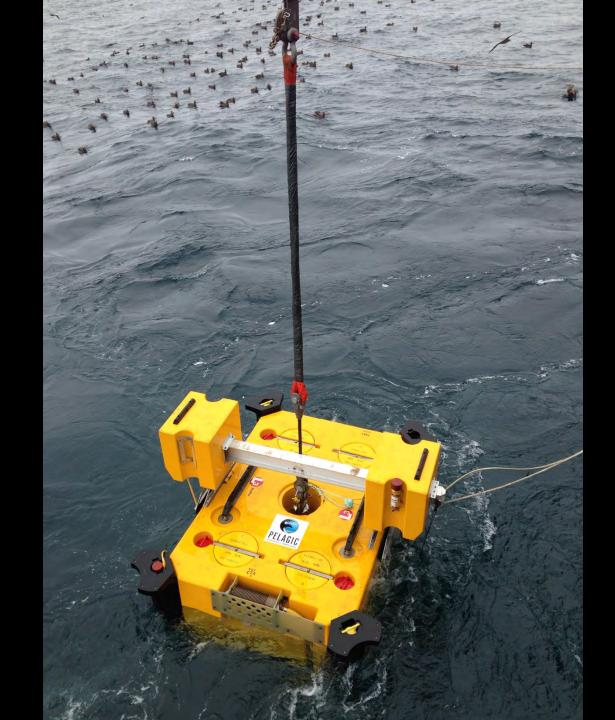




9 20 15

00:15:20 22-May-2015 W126.158380 N048.346406 D: 647.51 H: 273.3 A: 1.02 05 04 00: IS:2 I 03 FRIDRY, MRY 22, 20 IS 17: 15:21 THURSDRY, FIRY 2 1, 20 15















VERT 12:04:03 Nondry, Nay 25, 20 IS Local



19:04:03

NONDRY, NRY 25, 20 IS



NOAA Fisheries Red Tree Coral – Habitat Assessment – SE Alaska

- > 12 hour per day ROV Operations
- > 8 day cruise one weather day
- ≥ 13 dives 4 stations
 - 101 samples for genetics and reproductive ecology
 - > 4 km of geological and biological transects
 - 10 geology samples
 - 18 specimens for taxonomic studies
 - 4 kg of sponge sampled for biomedical research
 - Recovery and redeployment of 3 settlement plates after 22 months in-situ







21:20:52 8-Jun-2015 W355:116929 NO56:178315 D: 197.05 Hz 065.6 At 0.89

Primary Fixed HD





PILOT



BOTTOM



STILLS 2 1:20:54

Monday, June 8, 20 IS UTC

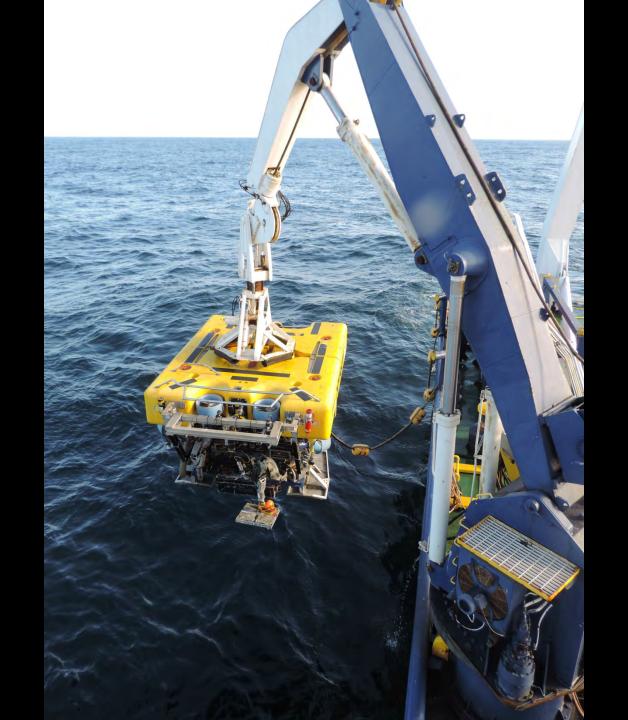
Nondry, June 8, 20 15 Local

SAMSUN



















W135:116923 N056.178315 D: 197.04 H: 065.5 A: 0.89 8-Jun-2015

Science P&T HD

PILOT

UMBILICAL

ВОТТОМ

STILLS
2 1:20:5 |
Nonday, June 8, 20 IS
UTC

Upper P&T SIT 13:20:5 1 Nondry, June 8, 20 15 Local

6000 meter ROV System Odysseus Update

Currently being upgraded

- Advanced control
- Conversion to single-body system
- Through frame lift and dual load releases
- Increase payload capacity
- * Many added features to support science payloads spare fiber, AC/DC power, spare sensor bulkheads, ease of science payload integration etc.

Collaboration with University of Southern Mississippi

- R/V Point Sur and Odysseus
 - Dante Delgrosso
- Demonstration cruise mid-February
- R/V Pt. Sur and Odysseus at AGU Ocean meeting in New Orleans
- Relocate Odysseus to USM marine science facilities at Stennis Space Center – efficiency and ease of mobilization aboard R/ V Pt. Sur, R/V Pelican etc.



