

# APPENDIX XI

## 1995 SOUTHERN CALIFORNIA SCIENCE OPERATIONS ADVANCED TETHERED VEHICLE (ATV) AND DSV-3 TURTLE

29 APRIL - 14 MAY

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### WHALE - FALL COMMUNITIES

CATALINA BASIN: 29 APRIL - 8 MAY

- Principal Investigator: Dr. Craig Smith (University of Hawaii)
  - Support of NURP's global change research initiative and man's influence on natural ecosystems and endangered species
  - Investigated the significance of whale-fall communities as dispersal stepping stones for sulfide-dependent species
  - Recovered 36 vertebrate segments, 41 core and scoop samples, 62 hours of video recordings, 550 still frames
  - ATV: 7 dives (69.3 hrs) TURTLE: 3 dives (24.7 hrs)
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### DEEP-SEA BRITTLESTAR FISH

SAN DIEGO TROUGH: 8 MAY - 14 MAY

- Principal Investigator: Dr. Gordon Hendler (Natural History Museum of Los Angeles)
  - Support of NURP ocean shelf and slope ecology initiative
  - Provided first accurate interpretation of brittlestar behavior pattern; characteristic pattern of deep-sea animal life
  - Recovered over 100 specimens, 65 hours of video recordings, 950 still frames
  - ATV: 5 dives (58.6 hrs) TURTLE: 4 dives (23.4 hrs)
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### RECENT MILITARY OPERATIONS

OCTOBER 1994 - MARCH 1995

- R & D Recovery in Southern California
  - R & D Recovery on Pacific Missile Range
  - Vil Vana Mishap Investigation
  - F-14 and F-18 Air Mishap Boards
  - Over 200 hours of ROV bottom time .
  - Over \$50 million of recovered hardware
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### FUTURE OPERATIONS

ATV AND SEA CLIFF:

AUGUST - SEPTEMBER 1995

- Dr. Paul Dayton and Dr. Eric Vetter investigating submarine canyons off the southern California coast
  - Dr. Cindy Lee Van Dover investigating hydrothermal vent invertebrates at the Main Endeavour Field
  - Dr. Martin Fisk investigating geology of the Mendocino Ridge
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## **RECENT IMPROVEMENTS PROJECTS AND UPGRADES**

- 3- Chip CCD Camers for both DSVs and UUVs (currently in use with great reviews)
- Lighting Upgrade for ATV and TUVWs (Dr. Joules Jaffe of Scripps)
- Micro-laser scaling system (initial use for Dr. Gordon Hendler)
- Navigation Upgrade (Winphrog and N-916)
  - Sea Beam post processing improvements
  - Sun Sparc 5 Stations w/ 17" real-time color monitor
  - HP 650C color-fill plotter
  - Archiving system
- Marsat E-mail
- SCORPIO depth upgrade

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