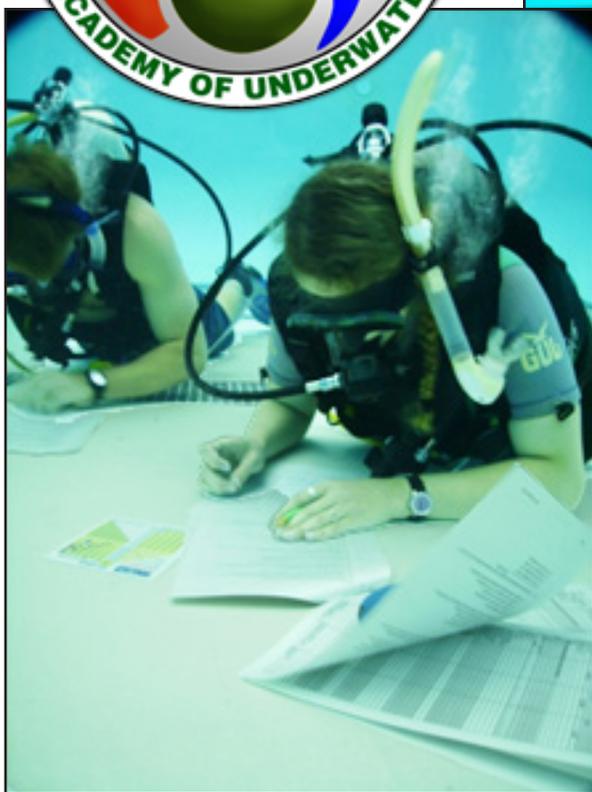# Humboldt State University
Scientific Diving Program

Rich Alvarez - Diving Safety Officer
Steve Monk - Scuba Instructor

Facilities

New Pool in the Kinesiology and Athletics Complex
- 13 feet deep
- Larger Deep End
- We have fit 42 Divers doing a skills review

New Compressor System:
- RIX 4VX 25 cfm Nitrox compressor
- 8 Air Storage banks
- 4 Nitrox Storage Banks
- 12 fill whips
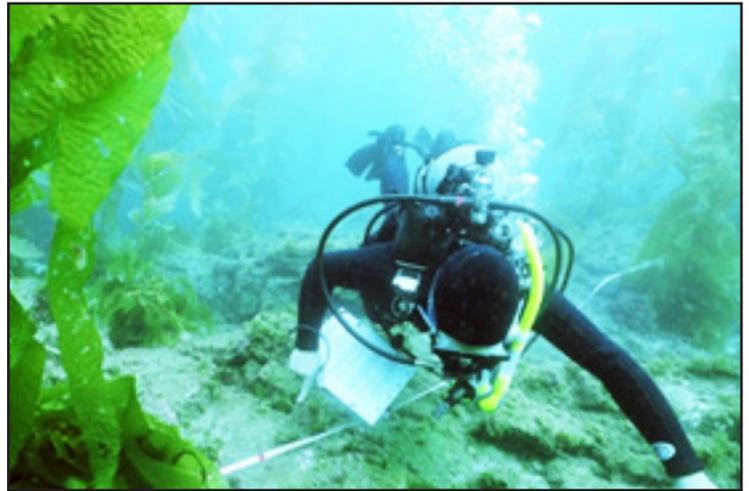
Program Support

MSF Funds awarded by Dean of CPS

- $6229 to pay for travel of student instructors
- $2000 to pay Intermitent Hourly Workers
- DSO Salary

Increased support on a Departmental Level for

- Travel of Faculty

Instructor Trainer Workshop

- Steve Monk and Rich Alvarez at UCSC in March
- Assisting with CIMI ITC
  - Course Director Workshop for Rich Alvarez
  - ITC at HSU within the next year

HSU Dive Program Activity Spring 2011

- 5 Scuba Classes: Beginning, Advanced, Underwater Photo, Rescue, DAN Oxygen Provider
- 11 Field Study Students (Divemaster Candidates)
- 101 total Divers

PE 262 Beginning Scuba

- 23 Students
- 2 trips to Mendocino

PE 362 Advanced Scuba

- 32 Students
- 1 trip to Mendocino
- 1 trip to Trinidad
- 1 trip to Catalina
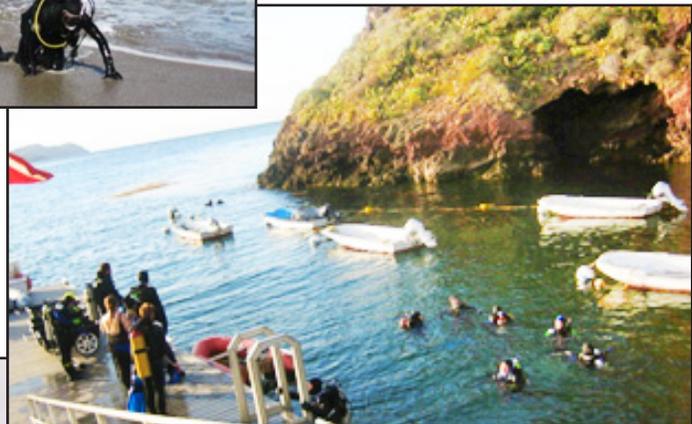 - USC's Marine Lab

PE 382 Underwater Photo

- 15 students
  - 1 trip to Mendocino

PE 470 Rescue diver

- 8 Students
  - 1 trip to Trinidad

101 Total Divers

- 993 dives
- 33,210 minutes of bottom time
- 132fsw Deepest Dive
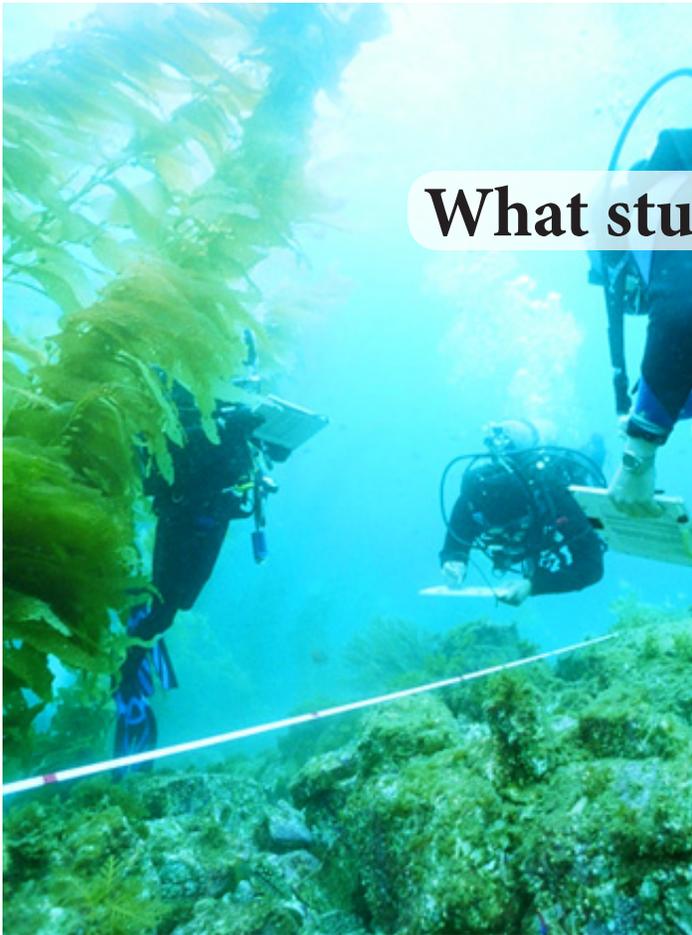
Projects Supported by the Dive Program

Acoustic Doppler (tsunami tracker) in Humboldt Bay

Graduate Research

- SMURF (Juvenile Rockfish survey) in Trinidad
- Abalone comparison of Trinidad and Mendocino

Undergrad Research

- Archeological survey of Portuguese Beach
- Reefcheck California Surveys of Trinidad, Crescent City and Mendocino (MPA baseline data)

What students do with the minor:

This year 15 students (so far) went on to get summer jobs, internships, or career positions in a wide array of diving related jobs. Here is a list of those jobs and some that our recent alums have:

- Nature Conservancy Coral Reef Restoration Diving internship in Virgin Islands
- Catalina Seacamp Scuba Dive Staff (6)
  - One of our Undergrads was promoted to Assistant Dive Director
- Director of Guided Discoveries and Dive Director visited HSU for interviews
- Monterey Bay Aquarium Assistant Diving Safety Officer (HSU Alum)
- Water Quality surveys in Belize with the Smithsonian Institute
- Channel Islands National Park (1 current student, 1 recent grad)
- Reefcheck California North-Central MPA monitoring coordinator
- AAUS Dauphin Island Marine Lab tech (2)
- US Navy Piniped research
  - Scripps University Northern Hawaiian Island Monitoring
- University of Hawaii Research vessel
- PISCO (1 undergrad, and 1 recent grad)
- Alaska Sea Life Center
- Various Dive stores as staff
  - Two Harbors Dive Center (2 students)

29 CFR Ch. XVII Subpart T 1910.401 – Labor (OSHA)

(iv) Defined as scientific diving and which is under the direction and control of a diving program containing at least the following elements:

A. Diving Safety Manual
B. Diving Control Board

Appendix B to Subpart T - Guidelines for Scientific Diving

1. diving control board : majority are active scientific divers - autonomous and absolute authority over program operations;
2. purpose of diving is advancement of science;
3. scientific diver is observer and data gatherer; and,
4. scientific divers use scientific expertise under water.

AAUS OM / AAUS Relationship

- AAUS consensual standards are the AAUS OM scientific diving minimum.
- It is the responsibility of the AAUS OM to review and augment these standards to fit their program if they deem it necessary.
- These completed standards become the AAUS OM operational standards.
- The liability related to these standards falls upon the AAUS OM not AAUS.

Community Outreach

- Beach cleanups organized by students in the HSU Scuba Club
- Classroom presentations to local elementary and junior high students
- Work with Northcoast Regional Stakeholder's group to provide input and advice on the MLPA process