



NOAA and Deep Submergence Science

Presented By:

Barbara Moore

*NOAA's Undersea Research
Program (NURP)*

December 2002



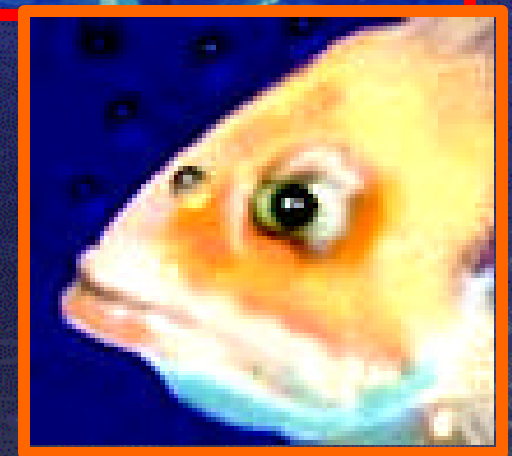
About NOAA

(National Oceanic and Atmospheric Administration)



Department of Commerce

- **NOAA's Mission:**
 - Describe and Predict Environmental Changes
 - Stewardship of Coastal and Marine Resources to ensure sustainable economic opportunities



Research Conducted by NOAA

- Covers a wide range supporting:
- Weather forecasting
- Climate prediction
- Fisheries management
- Coral management
- Understanding living resources



NOAA Programs that carry out Deep Submergence Science:

NOAA's Undersea Research Program (NURP)

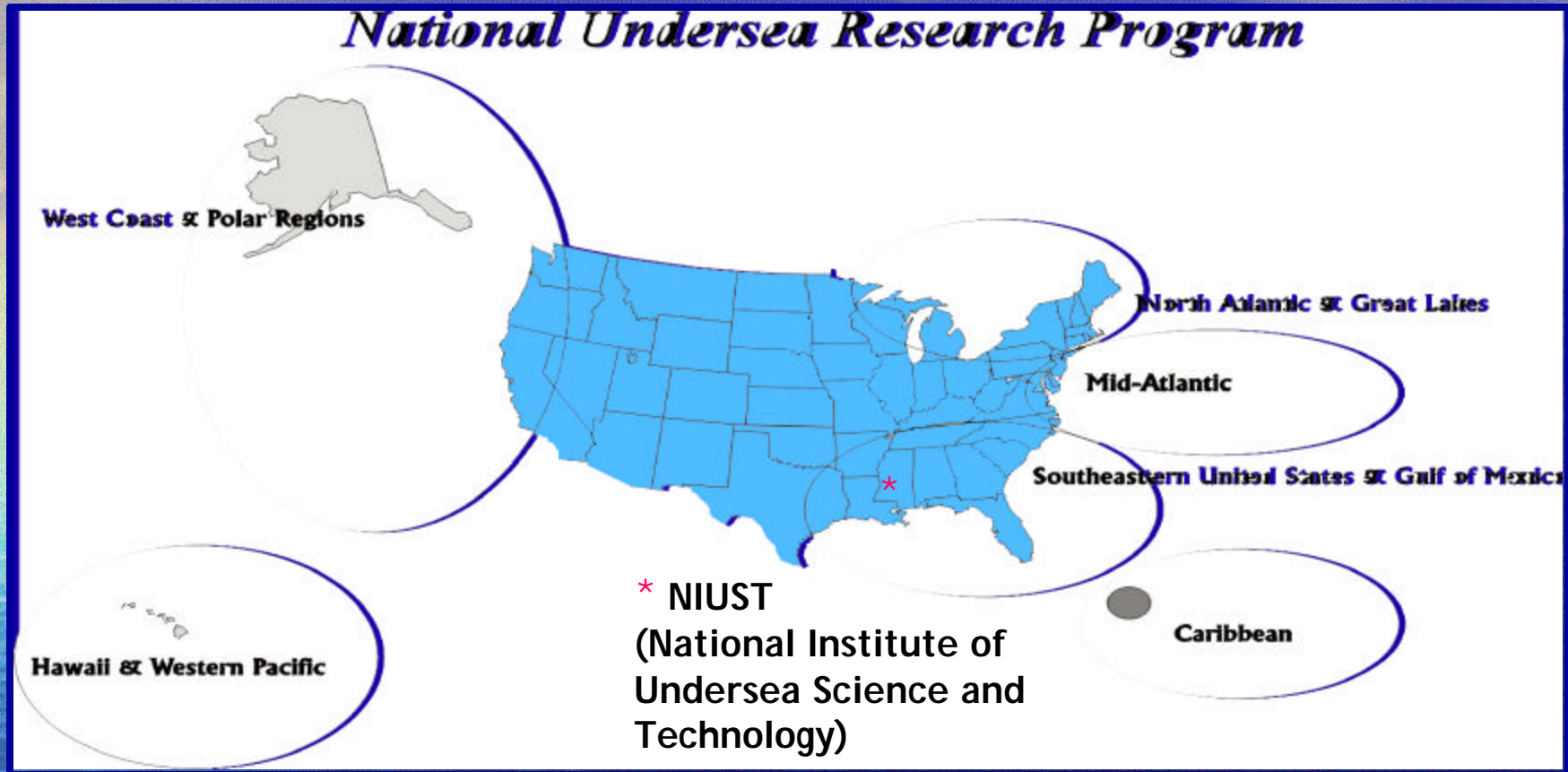


Ocean Exploration

EXPLORE 

About NURP

National Undersea Research Program



- NURP is an extramural program with
 - Peer-reviewed projects; and
 - Cutting edge research.

See www.nurp.noaa.gov for more information.

EXPLORE

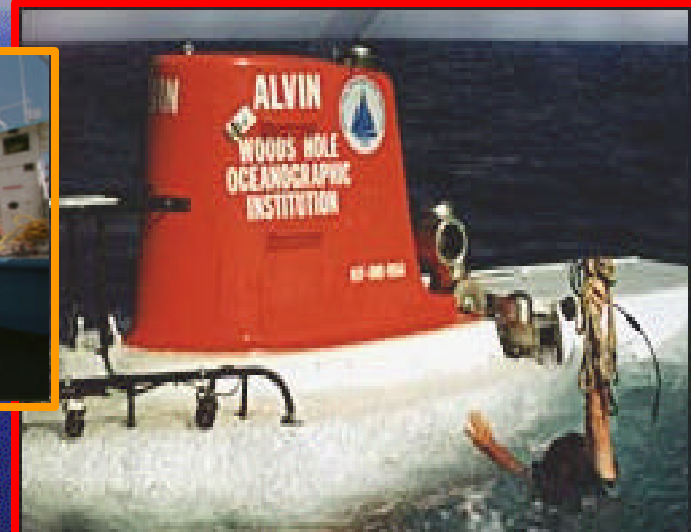
NOAA's Ocean Exploration



- Funds internal and external programs.
- For more information see:
<http://oceanexplorer.noaa.gov>

NURP's Infrastructure includes access to a wide variety of vehicles and tools

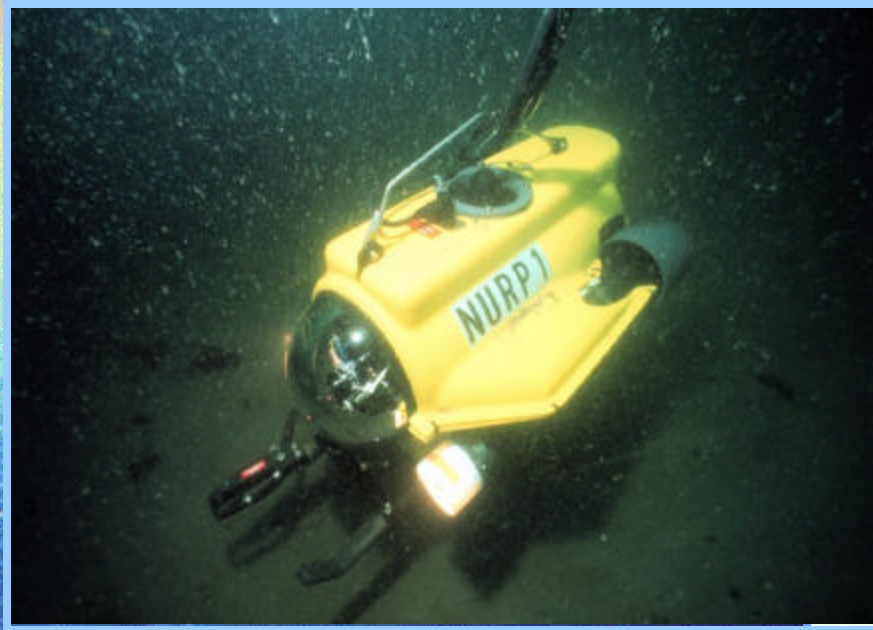
- Some owned
- Some leased
- Many with long-term MOUs



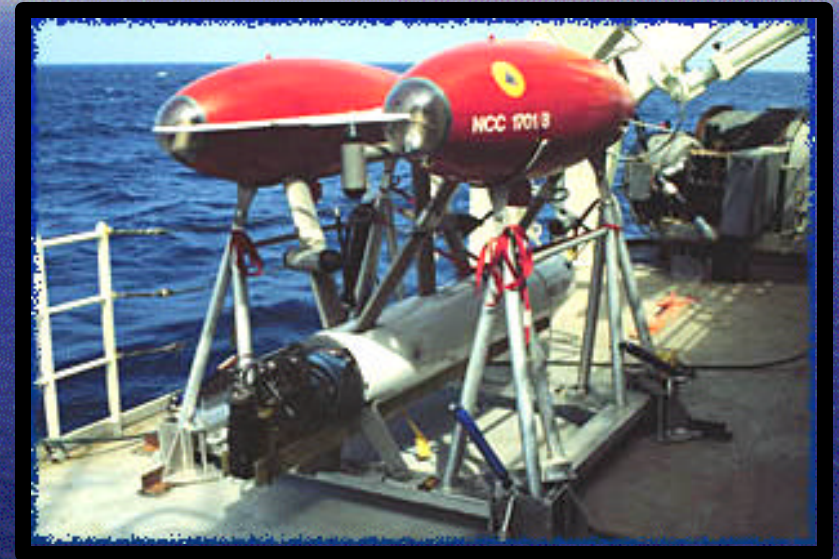
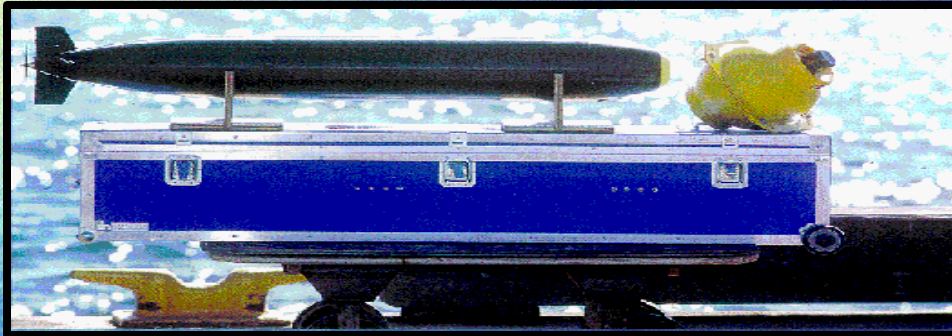
Human Occupied Vehicles (HOVs)



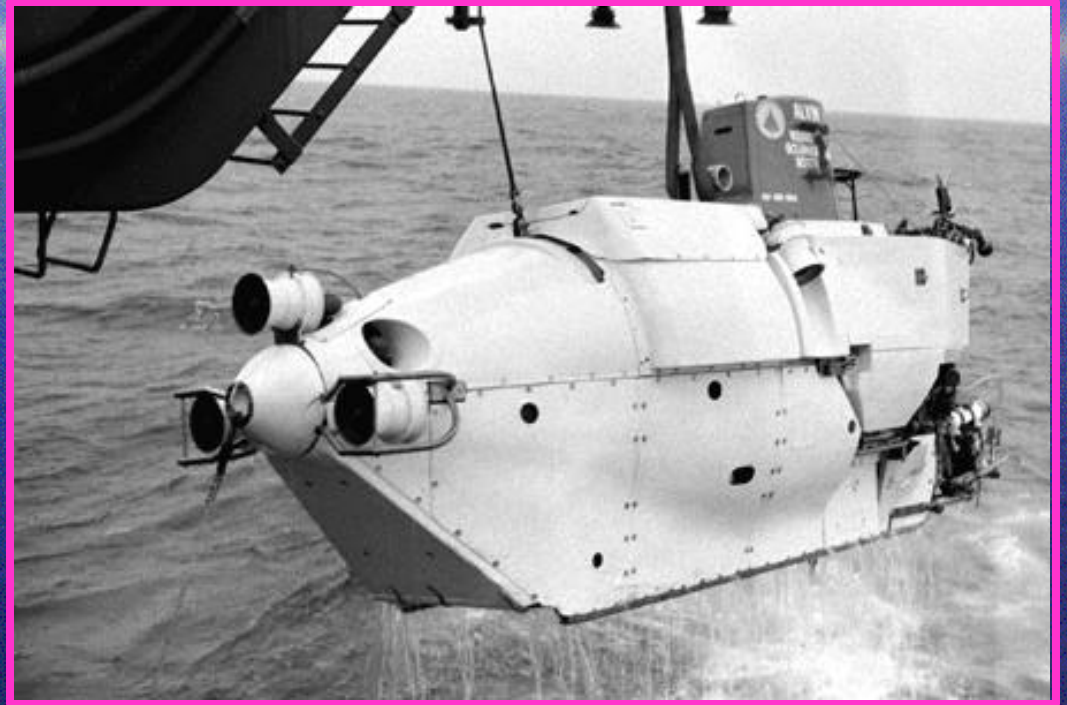
Remotely Operated Vehicles (ROVs)



Autonomous Underwater Vehicles (AUVs)

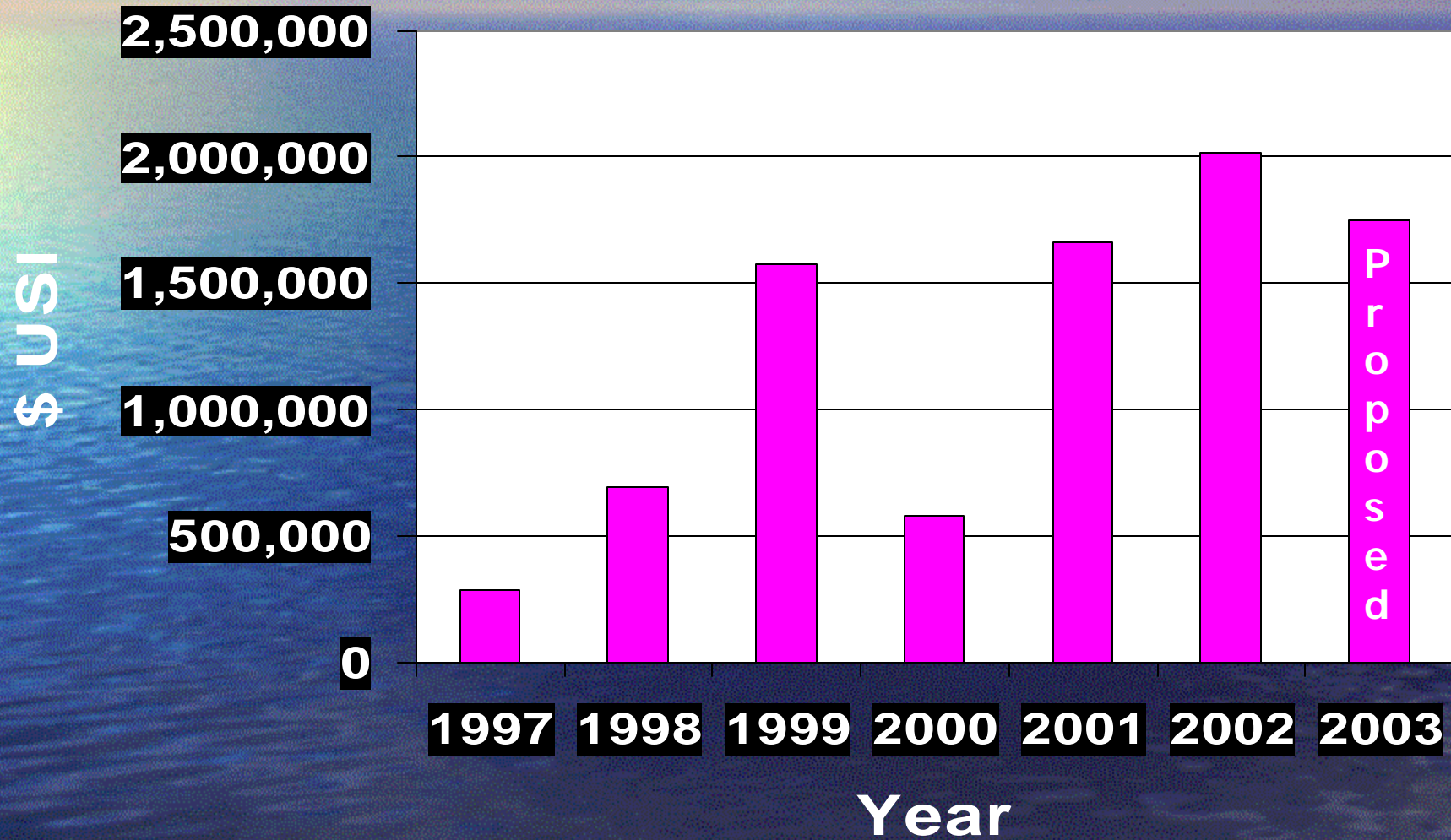


ALVIN & DESSC

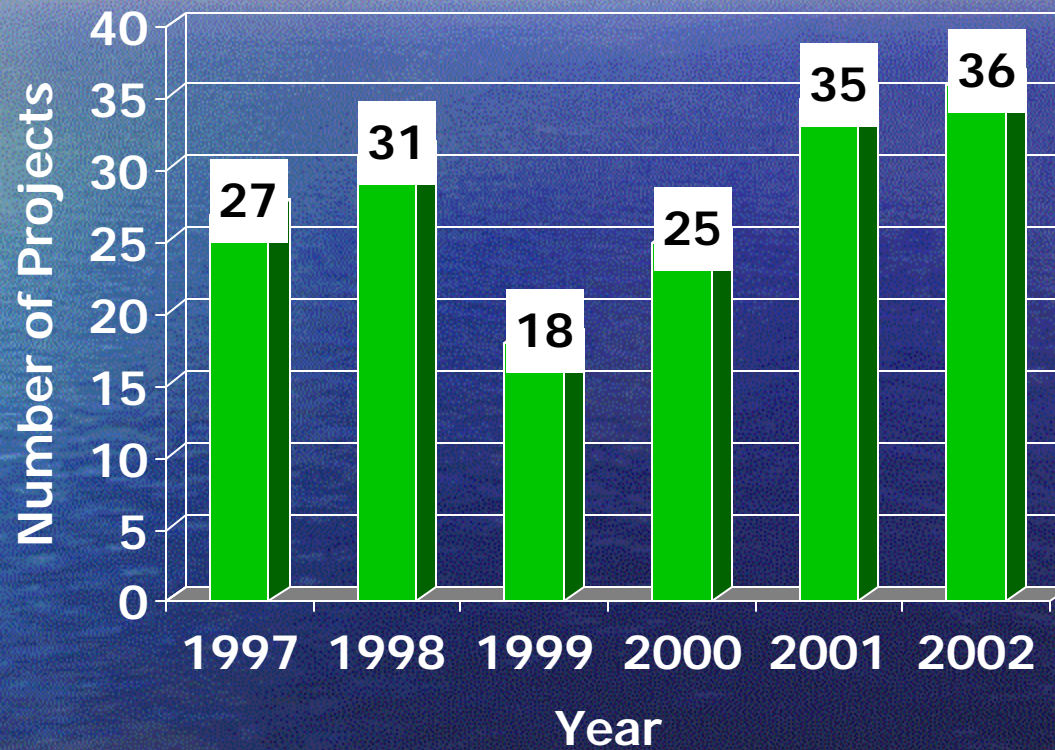


- NOAA, Navy, and NSF fund the DSRF through an MOU.

NOAA's Funding of Alvin



NOAA Funded Deep-Science Projects



Primary PIs for 1997-2002

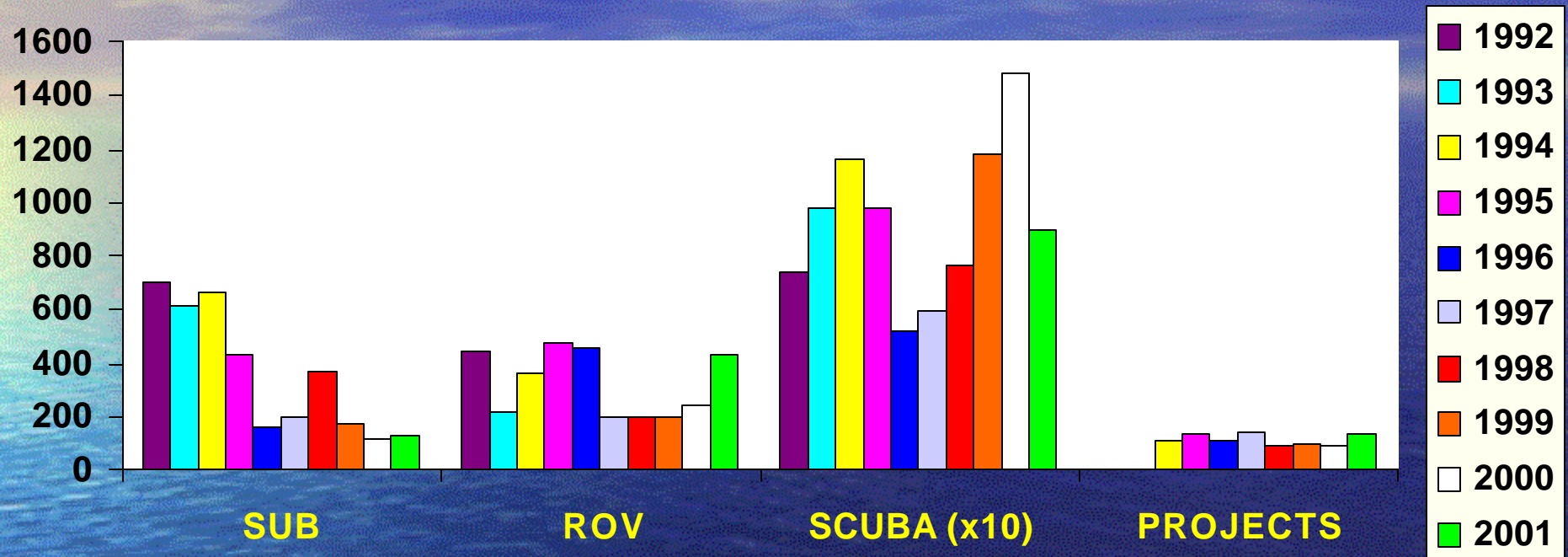
NOAA Deep Science Projects

Alphin, Troy
Ambrose, William
Auster, Peter
Baco-Taylor, Amy
Batiza, Rodey
Benfield, Mark
Broadwater, John
Brodeur, Richard D.
Brooke, Sandra
Brown, Kevin M.
Bush, Kendal
Butler, John
Butterfield, David
Cahoon, Lawrence B.
Cavanaugh, Colleen M.
Collier, Bob
Cooper, Richard
Cowen, James
Dayton, Paul K.
Donaldson, Paul
Dunbar, Robert
Duncan, Robert
Eisen, Jonathan
Embley, Robert W.
Fisk, Martin
Fisher, Charles R.
Fornari, Dan
Foster, Michael
Frank, Tamara
Fredericq, Suzanne
Garcia, Michael
Gieskes, Joris
Goldfinger, Chris
Grassle, Fred

Grau, Gordon
Grigg, Richard
Guilderson, Thomas
Halley, Robert
Haskell, Benjamin
Hendon, Reed
Hickerson, Emma
Hight, Tim
Jagiello, Tom
Kadko, David
Kelley, Christopher
Laster, Stephen Capt.
Lee, Raymond W.
Levin, Lisa A.
Lindholm, James
Lonsdale, Peter
Love, Milton
MacDonald, Ian R.
Martin, Jonathan B.
Martin, William
McClain, James
McMurtry, Gary
McMurtry, Gary
Moffitt, Robert
Morse, Daniel
Naish, Kerry
Nelson, Douglas C.
Nittrouer, Charles
O'Clair, Charles
Parrish, James
Powell, Eric
Reimers, Clare
Rittschof, Dan
Sansone, Francis J.

Schaeffer, Stephen
Scheel, David
Sen Gupta, Barun K.
Shepard, Andrew N.
Shirley, Thomas
Sibert, John
Smith, Craig R.
Sobecky, Patricia A.
St. Aubin, David
Starr, Richard M.
Staudigel, Hubert
Steneck, Robert
Stevens, Bradley G.
Sulak, Kenneth J.
Tivey, Margaret
Torres, Marta
Urban, Noel
Van Dover, Cindy Lee
Voight, Janet R.
VonDamm, Karen
Wakefield, W. Waldo
Watling, Les
Weaver, Doug
Weaver, Doug
Wheat, Geoff
Worobey, Nick
Worobey, Nick
Yoklavich, Mary
Young, Craig
Youngbluth, Marsh J.
Zhang, Chuanlun
Zierenberg, Robert

Trends in Deep Diving Funded by NURP



- Trend - less deep diving; more wet diving as result of decreased budgets
- additional \$ will be directed to change this



Thank you!