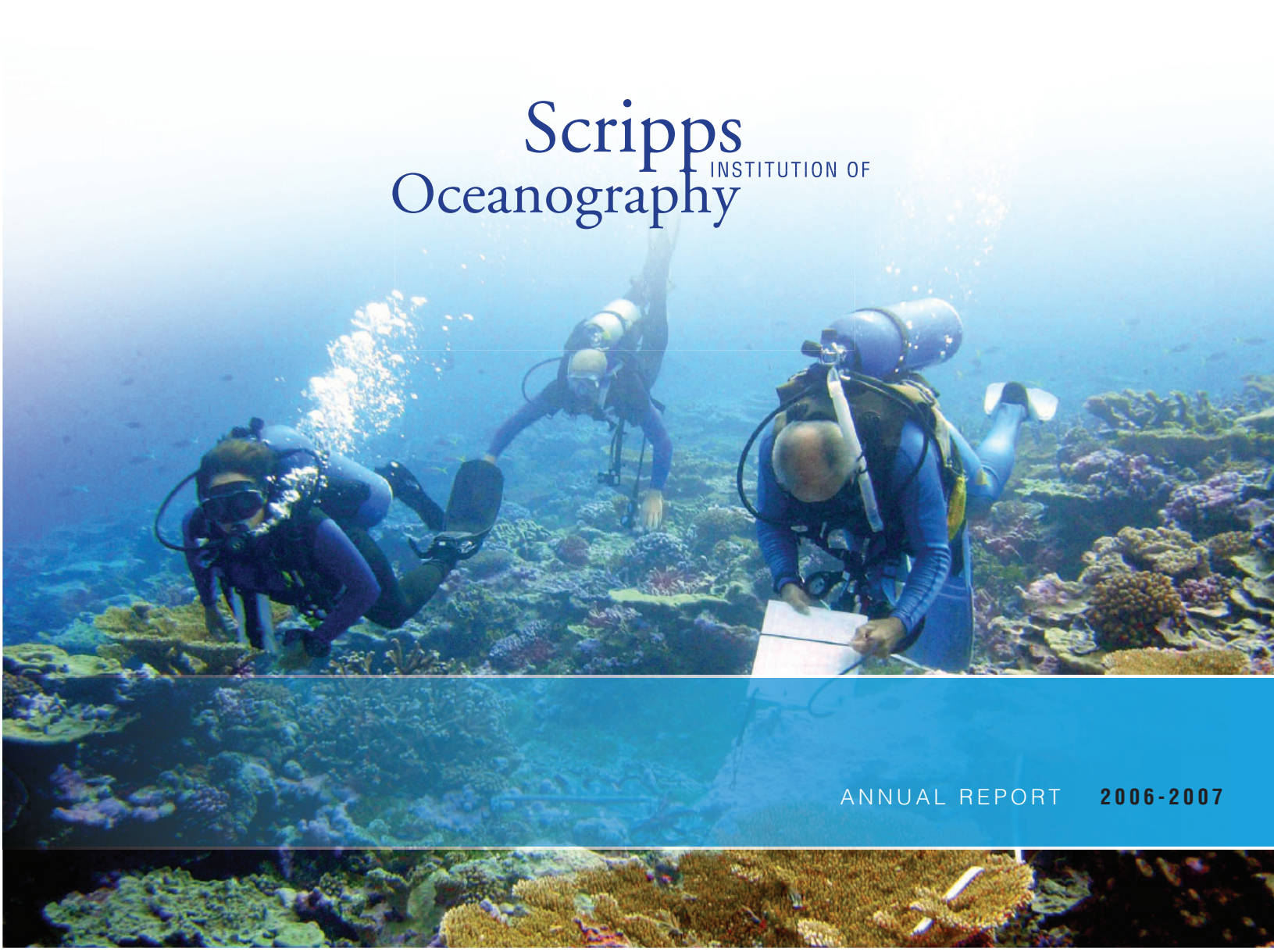
Scripps Institution of Oceanography



ANNUAL REPORT **2006-2007**

SEEK | TEACH | COMMUNICATE | BENEFIT

UC San Diego

MESSAGE FROM THE DIRECTOR

THE SCRIPPS MISSION:

To seek, teach, and communicate scientific understanding of the oceans, atmosphere, Earth, and other planets for the benefit of society and the environment.

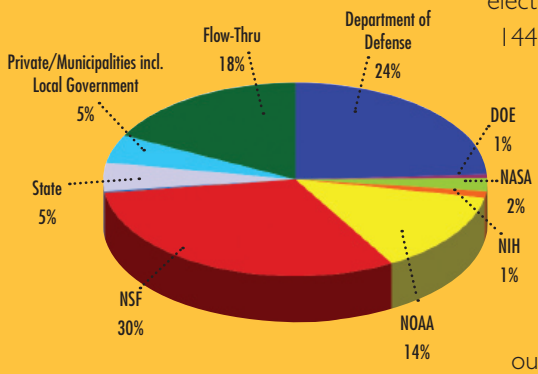
I AM PLEASED TO REPORT THAT SCRIPPS SCIENCE IS THRIVING. Our scientists remain leaders in their fields and continue to garner impressive levels of federal funding. This fiscal year, Scripps saw a healthy increase in federal awards over last year.

Because state funding from the University of California system has not kept pace with the need, Scripps has examined its expenditures and begun to restructure its financial model. Federal, state, and private funds will all play a role. Grant and contract awards increased by approximately $12 million in 2006-2007 to $118,391,000; however, even an 11 percent increase last fiscal year in the sum of these categories of income has not covered increasing costs. Despite this challenge, our commitment to fulfill the Scripps mission remains as strong as ever.

Scripps has made significant strides in securing private gifts this year. We have reached enough of our fundraising goal to complete construction of the Robert Paine Scripps Forum for Science, Society, and the Environment, and we are in the "home stretch" to complete its state-of-the art conference capabilities, with audio-visual and catering facilities to match its stunning exterior. We also received two generous endowments enabling Scripps to establish the Roger Revelle Chair in Environmental Science and the Benedek Chair in Ocean Sensor Science – gifts that will bring additional world-class faculty to our campus and enhance our ability to **seek** answers to today's scientific questions.

Scripps also has reached milestones in **teaching** this year. Our faculty members have taught a variety of UCSD undergraduate courses for years, but for the first time, Scripps is assuming full responsibility of UCSD's earth sciences program. The launch of a popular new marine science minor also marks an important success for Scripps. Incorporation of these programs emphasizes Scripps's commitment to undergraduate education and affords even more opportunities to involve undergraduate students in research.

AWARDS BY SPONSOR
FY 06/07

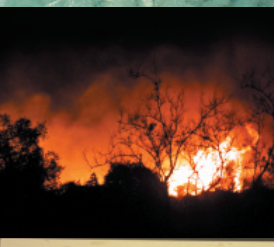


As the institution changes, so do the methods we use to **communicate** our scientific findings for the benefit of society. This year we launched the very successful *explorations* electronic-magazine, which has more than 14,000 subscribers and is enjoyed by readers in 144 countries. It has recently won a gold award from the Council for the Advancement and Support of Education (CASE). We also celebrated the opening of Birch Aquarium at Scripps's newest exhibit, *Feeling the Heat: The Climate Challenge*, which translates the complex science of global warming to the public. The exhibit won a design award from *Event Design Magazine* this summer.

Seek, teach, communicate—all to **benefit** our community. Our science has always been valuable, but world events over the last year have emphasized the value of what we do for our community. Scripps continues to evolve and grow, but our course stays true. Thank you for your interest in Scripps, and for your support.

Tony Haymet

Director
Scripps Institution of Oceanography
University of California, San Diego



Scripps Research

Scripps Oceanography is a world leader in Earth and ocean sciences, from the study of climate change, pollution, and natural disasters to marine life conservation and discovery of medicines from the sea.

RESEARCH ACTIVITIES

Air-sea interactions
High-altitude aircraft, research ships, and computer models are used to measure the exchange of energy and matter among the atmosphere, clouds, and oceans.

Climate change
Historical climate records and evidence found in samples from such diverse areas as glacial ice packs and tropical coral reefs are critical to interpreting long-range global climate changes, improving seasonal forecasting, and predicting El Niño events.

Coastal processes
Conducting coastal surveys, deploying instrument networks, and designing new technologies are among the approaches used to conserve seashore habitats, manage beach erosion, and forecast coastal conditions.

Earthquakes
The strength, causes, and locations of earthquakes are investigated by exploring the mechanics of the earth and monitoring seismic activity with local, regional, and global instrument networks.

Geology
Observational, experimental, and theoretical methods of the basic sciences are used to understand the processes that alter Earth's crust and to determine the long-term history of the lithosphere, hydrosphere, atmosphere, and biosphere.

Geophysics
New techniques of seafloor mapping, geological sampling, and remote sensing are yielding a better understanding of the processes involved in seafloor spreading, volcanism, and the formation of minerals.

Marine biodiversity and conservation
The diversity, distribution, and protection of marine life in the world's oceans are studied through field and lab research and the use of historical data and museum specimens.

Marine biology
The molecular, biochemical, and ecological characteristics of marine bacteria, plants, and animals are examined from the shore to the deep sea.

Marine chemistry
Investigations range from analyzing human impacts on the oceans to finding natural marine chemicals that fight disease.

Marine food web
The cycling of nutrients in the oceans from plankton to large fish is examined to understand how species interrelate and to assess what causes populations to vary over years and decades.

Marine genomics
Genetic analysis of marine life is increasing our understanding of how organisms have evolved and the roles they play in ecosystems, helping scientists analyze the health of the oceans and discover potential pharmaceuticals from the sea.

Ocean engineering
The development of new technologies and instrumentation for underwater research, including laser-based and sound-imaging devices, is greatly extending capabilities to work and gather data in the oceans and on the seafloor.

Physical oceanography
Measurements of currents and ocean mixing from the sea surface to great depths are giving a clearer account of the cycling of nutrients, chemicals, and heat in the oceans, factors that affect many global environmental systems.

Funding

FUNDING PRIORITIES: SHAPING THE FUTURE OF SCRIPPS

AT TELLING POINTS IN ITS LONG HISTORY, SCRIPPS INSTITUTION OF OCEANOGRAPHY HAS TAKEN MAJOR LEAPS FORWARD TO ADDRESS THE LEADING SCIENTIFIC ISSUES OF THE DAY. WITH THE CONVERGENCE OF MAJOR ADVANCES IN SCIENTIFIC MONITORING AND A RAPIDLY GROWING GLOBAL AWARENESS OF UNPRECEDENTED ENVIRONMENTAL CHALLENGES BEFORE US, WE ARE ONCE AGAIN ON THE THRESHOLD OF SUCH A TIME.

PRIVATE SUPPORT IS ESSENTIAL in helping Scripps address these challenges. Emerging from its most successful year in gifts and grants, Scripps is laying the foundation for maintaining leadership as a world authority on ocean, earth, and climate science. Private support will be directed toward three critical areas as we embark on Scripps's second century:

- Attracting the best and brightest minds to lead the world in ocean, climate, and earth sciences;
- Pursuing the scientific knowledge and discoveries needed to address the most significant environmental challenges;
- Going beyond the science to educate policymakers, business leaders, and ordinary citizens about the discoveries made at Scripps, so informed decisions can be made in shaping the planet's environmental destiny.

We can achieve these institutional goals with endowed chairs, graduate and post-doctoral fellowships, seed funding for research, an endowment for the Scripps Collections, and funds to expand Birch Aquarium at Scripps. These all require private support. Friends such as you can make a difference by helping Scripps address the growing environmental challenges facing society. Please join us.

WEB: supportscripps.ucsd.edu

THE YEAR IN PRIVATE SUPPORT

Private support to Scripps Institution of Oceanography in fiscal year 2006-07 increased by 41 percent over the previous year, with a total of $14,963,033 in gifts and pledges. This record amount brought the total of Scripps's gifts during the recently completed seven-year campaign for UCSD to more than $62 million.

Scripps received several extraordinary gifts this year, including support for two endowed faculty chairs (see sidebar for Revelle gift) and more than $2.3 million in private support to help complete the Robert Paine Scripps Forum for Science, Society, and the Environment. Significant Forum donors included the Grosvenor Family Foundation, and Nicolas and Caroline Nierenberg. Scripps family members contributed more than $1.7 million to the project, including Ellis Wyer and the families of Sam Scripps, E.W. "Ted" Scripps, Peg Scripps Buzzelli, and John Paul Scripps. Construction of the Scripps Forum began in January 2007 and is scheduled for completion in summer 2008.

Notable gifts from individuals included a $1 million endowed chair in ocean sensor science from Dr. Andrew Benedek; a $500,000 endowed graduate student fellowship from Scripps professor Devendra Lal; $200,000 from Ed and Christy Scripps to support coral reef research in the Center for Marine Biodiversity and Conservation; and a substantial collection of marine art from Russ and Carol Penniman. Other significant donors last year included the G. Unger Vetlesen Foundation, which contributed $700,000 to continue its many years of support for innovative Scripps research, and the Stephen & Mary Birch Foundation, which gave $750,000 to help fund the renovation and maintenance of the ocean habitat life-support infrastructure for Birch Aquarium at Scripps.

Completion of the Scripps Forum is slated for summer 2008.

Private Support in Fiscal Year 2006-2007

Endowed Chairs:	$3,500,100
Scripps Forum:	$2,331,430
Fellowships/Student Support:	$1,335,072
Research:	$4,016,709
Birch Aquarium at Scripps:	$1,673,330
Other:	$2,102,393
TOTAL:	**$14,963,034**

Above amounts reflect booked gifts, grants, and pledges.

Scripps Oceanography Endowment
(market value as of June 30, 2007)

UC San Diego Foundation Endowments:	$13,943,371
UC Regents Endowments:	$50,091,729
TOTAL Endowments:	**$64,035,100**

50 YEARS OF CLIMATE CHANGE SCIENCE

"Global warming" has become a household phrase only in recent years, but Scripps Oceanography has been a pioneer in the science of climate change for half a century. In 1956, Scripps Director Roger Revelle hired Charles David Keeling to establish the first atmospheric carbon dioxide monitoring program, an initiative that has produced the iconic graphic known today as the "Keeling Curve." In March 2008, Scripps will celebrate the 50th anniversary of this ongoing dataset, marking its importance to our understanding of climate change and for our future discoveries.

In October 2007, it was announced that former Vice President Al Gore and the United Nations' Intergovernmental Panel on Climate Change (IPCC), whose roster of researchers and experts includes scientists from Scripps, received the Nobel Peace Prize. Five researchers at Scripps have played lead roles in the panel's reports, and more than a dozen other Scripps scientists have been involved in the IPCC process since its inception in 1988.

Ellen Revelle (seated) and Al Gore with Revelle's daughters Carolyn Revelle, Anne Revelle Shumway, and Mary Ellen Paci.

SUSTAINING A CLIMATE SCIENCE LEGACY

The family of famed former Scripps Institution of Oceanography Director Roger Revelle made a $2.5 million gift this year to establish the Roger Revelle Chair in Environmental Science at Scripps. The endowed chair honors Revelle, one of the world's most highly regarded oceanographers, and the founder of UC San Diego.

The generous gift from Revelle's wife, Ellen, and her family represents the largest single donation ever made for an endowed chair in the 104-year history of Scripps. "Roger loved being at Scripps. It was always near and dear to his heart," said Ellen Revelle. "Endowing a chair here in his honor seemed like a very appropriate thing to do."

Funds for the endowed chair will initially be used to recruit outstanding climate scientists to Scripps, one of the world's foremost climate change research institutions.

Financial Support

From July 1, 2006 to June 30, 2007

FEDERAL, STATE, AND CITY/COUNTY AGENCIES

FEDERAL

Commerce, Department of
National Oceanic and Atmospheric Administration
Defense, Department of
Air Force Office of Scientific Research
Army Space and Missile Defense Command
Miscellaneous Air Force Bases and Agencies
Energy, Department of
Department of Energy, Washington, D.C.
Health and Human Services, Department of
National Cancer Institute
National Institute of Allergy and Infectious Diseases
National Institute of General Medical Sciences
National Institute of Neurological Disorders and Stroke
Navy, Department of
Office of Naval Research
Space and Naval Warfare Systems Command
Miscellaneous Bases and Agencies
National Aeronautics and Space Administration
Goddard Space Flight Center
Shared Services Center
National Science Foundation
Other Federal
USDI Geological Survey

CALIFORNIA, STATE OF

Boating and Waterways, Department of
Coastal Commission
Coastal Conservancy
Environmental Protection Agency Air Resources Board
Miscellaneous Agencies

CITIES AND COUNTIES

City of San Diego
County of San Diego

PRIVATE SUPPORT

$1,000,000+

Andrew Benedek +
Revelle Family + * #
The SHS Foundation

$500,000-$999,999

Stephen & Mary Birch Foundation, Inc.
Devendra Lal +
Alfred P. Sloan Foundation +
The G. Unger Vetlesen Foundation +

$250,000 – $499,999

Carol and Russell Penniman +
Christy and Ed Scripps + *

$100,000-$249,999

Anonymous (2)
American Chemical Society
The BAWD Foundation +
The Legler Benbough Foundation +
Tsaihwa Chow Trust +
The Comer Science and Education Foundation +
The Henry L. & Grace Doherty Charitable Foundation Inc. +
Susan and Sheldon Engelhorn +
Audrey Geisel*
The San Diego Foundation - Dr. Seuss Fund
The Cecil H. and Ida M. Green Foundation for Earth Sciences +
Elaine and Bob Halliday + *
Houts Trust - Ted J. Nicothodes, Successor Trustee
Imperial Capital Bank +
Life Sciences Research Foundation
Miramar Services, Inc.
Moore Family Foundation +
Gordon and Betty Moore +
Caroline and Nicolas C. Nierenberg +
The Nierenberg Foundation
Mrs. Edward W. Scripps II +
Kathryn and William H. Scripps +
Ellis Wyer +

$50,000 - $99,999

Anonymous
The Agouron Institute+
The ARCS Foundation Inc. - Los Angeles Chapter +
Cinveste, SGPS, SA / Luis da Silva *
Conservation International Foundation
Joan Eichen +
Elan Pharmaceuticals, Inc.
Craig and Cindy Emmerson *
Extrameasures, LLC
The Grosvenor Foundation +
Cinda and Thomas O. Hicks *
Elizabeth Keadle
The March of Dimes Birth Defects Foundation
Elizabeth Hamman Oliver and Morgan Dene Oliver + *
The David and Lucile Packard Foundation +
Jane and Arthur Riggs
Suzanne and Robert Robotti
Cindy Scripps + *
Joseph S. and Diane H. Steinberg Charitable Trust
Patricia and Bill Todd +

$10,000 - $49,999

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AGO/Schlumberger Corporation
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Carl A. Bergard
Karen and Wolfgang Berger # *Δ
The Beyster Family Foundation
The Billingsley Foundation
Brenda and Jeffrey R. Bohn Δ
Nancy Saikhon-Borrelli and Fred Borrelli *
The Charles H. Stout Foundation
Community Foundation of Silicon Valley at the direction of Sue and John Sobrato
Cymer, Inc.
Eloise and Russell E. Duff *
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Richard and Patricia Elkus *
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Ivan C. Gayler +
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Daphne and James D. Jameson *
The Jewish Community Foundation +
Louise Keeling
The Korein Foundation
Edith S. and Peter R. LaDow *
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Lanna Cheng and Ralph Lewin + *
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The K.T. & E.L. Norris Foundation
The Ocean Conservancy
Janet and Clyde Ostler *
Mary and David Peirce
Barbara and Paul A. Peterson *
Donna and Dan Peterson*
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Procopio, Cory, Hargreaves & Savitch
QUALCOMM Incorporated
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Lynne and Howard Robbins + Δ
Charlie Robins + * #
Glenda and Richard Rosenblatt + Δ
Regina and John R. Rowe *
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San Diego Foundation
The Ellen Browning Scripps Foundation +
Elia and Paul Scripps *
Darleen and Peter Scripps
Jeanne B. Sleeper + *# Δ
The Edna Bailey Sussman Fund
Union Bank of California, N.A.
Vanguard Charitable Endowment Program
Robert Wueste and family

$5,000 - $9,999

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Jennifer and Gregory Alexander
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LondaKay and Blaine Beyer
Paula and Joe Boudreau *
Charleen and John P. Boyl
William Boyl
Julia R. Brown *
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Beth Brummitt and Bob Mellott
The Cairns Foundation
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Ruth F. Davis *
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Kathryn B. Goldsmith
Stuart Goode + *
The Greater Cincinnati Foundation
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Karin Winner *
Keene and Katherine Wolcott
Ann and R.B. Woolley, Jr. *
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$2,500 - $4,999

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William Clewes

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Rosemarie and Dr. Jeffrey B. Graham Δ
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Tina and Tei Iki *
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$1,000 - $2,499

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Edith and Ken Smargon + * #
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Ginger and Robert Wallace *
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James Wedeking
Suzanne and Edward Weissman *
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Elizabeth Winant #
Diana and William Wiseman *
Patricia W. Wong #
World Wide Small Change Foundation
Leslie and Grant Yellen
Alana and Bill Yerrick *
Cynthia York and David Wahl *
Rachel and John YorkWilliams *
Bebe and Marvin Zigman *

LEGEND

+ Director's Circle Member
* E. W. Scripps Associates Member
# Ellen's Circle Member
Δ Friends of Collections Member

Statement of Activity

				UNRESTRICTED	
	FY 05-06	FY 06-07	RESTRICTED	DESIGNATED	UNDESIGNATED
Revenue					
Sponsored Research (expensed in this period, not awarded)	$100,857,000	$107,082,428	$107,082,428		
1 Government - Federal	89,892,937	93,746,652	93,746,652		
National Science Foundation	39,590,780	36,079,397	36,079,397		
Department of the Navy	12,804,970	19,030,098	19,030,098		
National Aeronautics and Space Administration	4,180,610	4,107,084	4,107,084		
National Oceanic and Atmospheric Administration	17,091,738	16,378,749	16,378,749		
Department of Energy	1,402,947	1,249,590	1,249,590		
Other Departments of Defense	738,808	1,171,542	1,171,542		
Other Federal Departments	2,629,882	2,944,395	2,944,395		
Federal "flow thru" subcontracted research with non-state institutions	11,453,201	12,785,797	12,785,797		
Government - State	6,297,838	7,909,146	7,909,146		
Intercampus Sponsored Research	486,613	360,326	360,326		
Government - Local	460,834	286,639	286,639		
Private Contracts	3,718,778	4,779,666	4,779,666		
University of California Support	25,443,072	28,793,392	240,242	20,390,483	8,162,667
General Funds from the State that flow through UCSD	16,528,275	19,640,422	230,978	17,264,892	2,144,553
Student Fees	14,735	48,564		48,564	
Allocation of Benefits for UCSD FTE's	2,967,536	3,086,292	9,265	3,077,028	
2 ICR Allocation from Prior Yr F&A fees from UCSD	5,932,525	6,018,114			6,018,114
Earned Revenue	7,485,476	9,348,826	9,181,051		167,775
3 Birch Aquarium at Scripps (BAS) excluding recharge revenue	2,929,894	3,469,948	3,469,948		
Recharge Unit Revenues	4,141,231	5,655,264	5,655,264		
Intellectual Property & Royalty Income	34,083	49,174	49,064		110
Other Revenue	36,226	27,613			27,613
Private Gifts and Grants	6,665,876	6,498,058	4,740,750		1,757,308
4 Private Gifts	3,988,627	5,132,057	3,374,749		1,757,308
Private Grants	2,677,249	1,366,001	1,366,001		
Interest Income	2,055,166	1,930,278	691,662		1,238,616
5 Interest Income	448,040	267,099	8,071		259,029
Endowment yields	1,607,126	1,663,179	683,591		979,588
Total Revenue	142,506,589	153,652,984	121,936,134	20,390,483	11,326,366
Expenses					
6,7 Research Programs- SEEK	124,291,221	130,343,365			
8 Instruction Programs - TEACH	5,928,080	6,275,237			
Outreach - COMMUNICATE	5,272,089	6,299,631			
3 Birch Aquarium at Scripps (BAS)	4,241,715	5,493,114			
Scripps Oceanography Society (SOS)	59,039	7,222			
Communications & Publications	971,335	799,295			
Institutional Support	5,424,759	5,953,490			
9 Director's Office	1,766,750	1,835,086			
10 Development - Direct Costs	546,238	612,372			
Special Events and Facility Rental	236,174	220,186			
11 Director's Business Office	863,423	890,530			
12 Academic and Research Investments	685,981	910,386			
13 Facility Expenses	750,406	801,745			
14 Support Services	575,787	683,184			
6 Total Expenses	140,916,149	148,871,722			
15 Net Carry forward/(Deficit) from Current Activities	1,590,440	4,781,262			

Revenue & Expenditures

[1]Federal revenue reported here reflects reimbursement by the federal government for expenses incurred by Scripps when completing research on previously awarded federal contracts or grants. This figure is not the gross federal awards received by the institution during the current fiscal year.

[2]The 2005/06 ICR allocation has been modified to include a special return of ships overhead.

[3]Like most museums, Birch Aquarium at Scripps generates only a portion of its revenue through fees it charges to the public. The balance of its operations is supported through restricted private gifts and endowment yields.

[4]Private gift revenue includes gifts received and available for spending in the current year. It does not include development activity resulting in bequests, pledges, or contributions to construction, endowments, or funds acting as endowments.

[5]In 2005/06, revenue from the Short Term Investment Pool was recategorized from Earned Revenue to Interest Income. This does not reflect transfers of STIP to plant accounts where the funds are captured as assets until expended.

[6]Research programs include all research units, the Marine Science Development Shop, Analytical Facility, Collections and Libraries, and Contracts and Grants Administration.

[7]UCSD financial schedules exclude overhead generated from sponsored research activities. Scripps administration includes it in these financial statements to improve comparisons of Scripps to other research institutions.

[8]Instruction Programs include the Scripps Department.

[9]Director's Office includes academic personnel, government relations, and international relations.

[10]Total Development costs are shared between Scripps and UCSD Development. These figures reflect only expenses incurred by Scripps.

[11]The Director's Business Office includes administrative, human resources, and financial staff.

[12]Academic and Research Investments include faculty recruitment and retention funds and the Center for Earth Observations and Applications, which was disestablished in 2007.

[13]Amounts transferred by Scripps to UCSD Facilities Design and Construction or Physical Plant Services and subsequently spent on large capital improvement projects are excluded. Additionally, renovations to facilities to accommodate the needs of new faculty and research hires are reflected as Academic and Research Investments. In 2006/07, total expenditures on facilities paid directly by Scripps were $2,626,938.

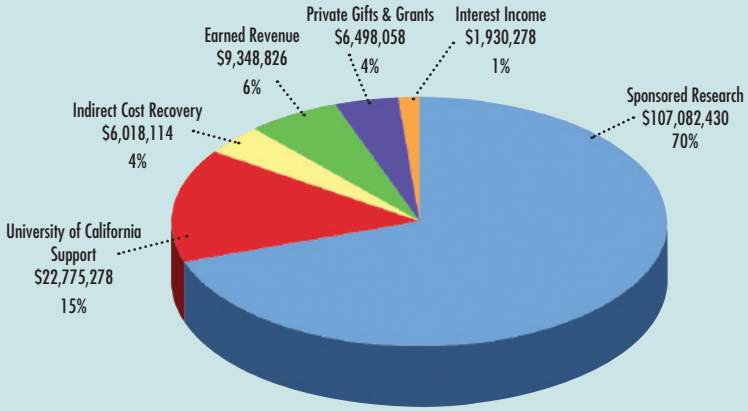
[14]Support Services include purchasing, computer systems, safety, dive operations, and the Scripps lifeguard.

[15] The positive carry forward balance in 05/06 and 06/07 reflects earned revenue from self-supporting units held in reserve for equipment replacement or repair, i.e., restricted funds. Cumulative balances of discretionary funds used for general support of the institution are actually in deficit due to cuts to the university's research budget.

NOTE: This statement does not purport to present all annual expenditures associated with operating the institution. Many services provided by campus departments outside Scripps are not reflected in Scripps's annual expenditures. Examples: building, parking lot, and road maintenance, utilities, seawater utilities, custodial services, landscaping, grounds, accounting, payroll, HR.

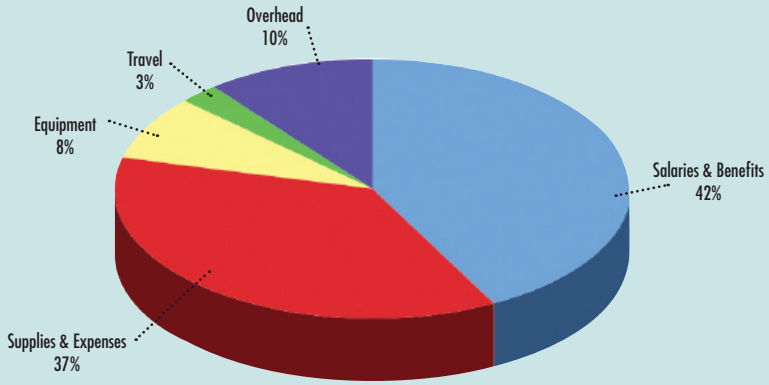
Sources of Revenue

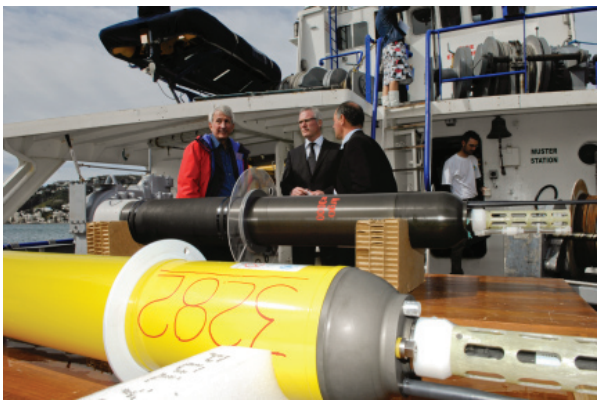
FY 06/07
$153,652,984



Expenditures by Function

FY 06/07
$148,871,722



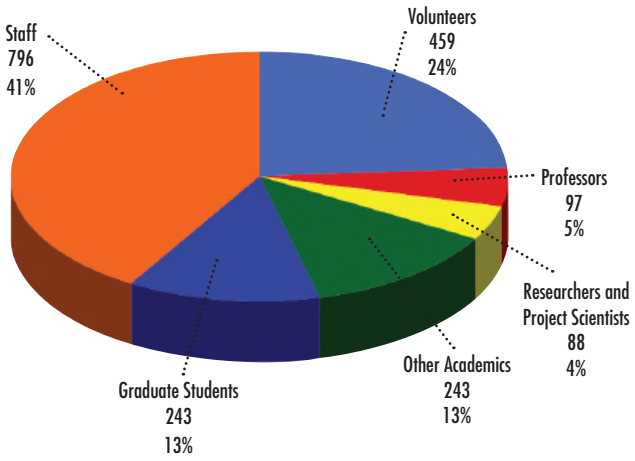


Argo has the Oceans Covered

The Argo array of ocean-observing instruments, many built at Scripps Institution of Oceanography at UC San Diego, reached full observational capacity this year. The level of coverage translates to an average of one float per every three degrees latitude and longitude. Scientists behind Argo hope to see it provide a comprehensive view of the basic physical state of the oceans for decades to come.

Census

CALENDAR YEAR 2006



Scripps is a world-class oceanographic institution because of its ability to attract and retain the best students, faculty, and staff.

GRADUATE STUDENT STATISTICS

Fall 2006 enrollment

Male: 120

Female: 122

Total: 242

Field of Study / Number of Students

Applied Ocean Sciences: 20

Biological Oceanography: 27

Climate Science: 26

Geophysics: 32

Geological Science: 26

Marine Biology: 51

Marine Chemistry/Geochemistry: 38

Physical Oceanography: 22

Scripps Acreage

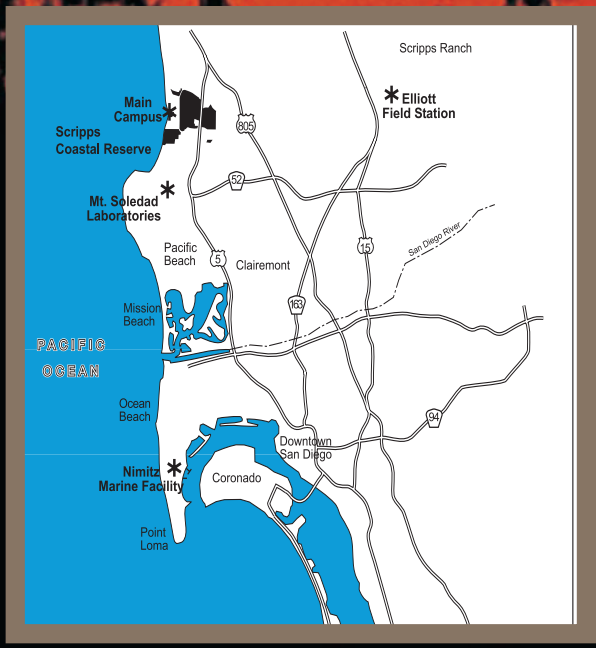
200+ acres

73 buildings

850,000 gross square feet

4 KEY LOCATIONS:

- Scripps Main Campus, La Jolla (and Scripps Coastal Reserve)
- Nimitz Marine Facility, Point Loma
- Elliott Field Station, Scripps Ranch
- Mt. Soledad Laboratories, La Jolla



The Scripps Fleet

R/V *ROGER REVELLE*

Built: 1996
Length: 273 feet
Gross Tonnage: 3,180 tons
Crew: 22
Scientific berthing: 37

R/V *MELVILLE*

Built: 1969
Mid-Life: 1992
Length: 279 feet
Gross Tonnage: 2,516 tons
Crew: 23
Scientific berthing: 38

R/V *NEW HORIZON*

Built: 1978
Mid-Life: 1996
Length: 170 feet
Gross Tonnage: 297 tons
Crew: 12
Scientific berthing: 19

R/V *ROBERT GORDON SPROUL*

Built: 1981
Length: 125 feet
Gross Tonnage: 84 tons
Crew: 5
Scientific berthing: 12

R/P *FLIP*

Built: 1962
Length: 355 feet
Gross Tonnage: 700 tons
Crew: 4 in port, 5 underway
Scientific berthing: 11

SCRIPPS INSTITUTION OF OCEANOGRAPHY

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