




CALIFORNIA SEA GRANT INDEX OF 2002–2005 PROJECT PROFILES

California Sea Grant creates a series of one-page summaries of funded research, education and extension projects. The following are currently available on our Web site at www.csgc.ucsd.edu.

Project Leader	Project No.	Dates	Title
AQUACULTURE			
May	R/A-109	1998–2001	Developing a Breeding Plan for Farm-Raised Sturgeon
Chang	R/A-111	1999–2002	Accelerating Growth Rates in Shellfish with Bovine Growth Hormone
Hedrick/Arkush	R/A-114	2000–2002	Control of Rickettsial Infections in White Seabass
Piedrahita/Conklin	R/A-116	2001–2004	Development of Halibut Aquaculture
Burns	R/A-119	2002–2005	Creation of a Molluscan Cell Line
Kuperman/Roux	R/A-123	2004–2005	Acoustic Method for Fish Counting and Fish Sizing in Tanks
Moore	R/A-102PD	2004	A Comprehensive Oyster Disease Survey in California
INVASIVE SPECIES			
Levin	R/CZ-150	1998–2000	Alteration of Wetland Habitat by Two Exotic Invertebrates
Wijte	R/CZ-151 & 163	1998–2001	Combating <i>Arundo Donax</i> and Other Nuisance Grasses
Cohen	R/CZ-31PD	1998–2001	Calcium Requirements and the Spread of Zebra Mussels
Dugan	R/CZ-160	1999–2002	Evaluating Health Risk Posed by the Invasive Chinese Mitten Crab
Kuris	R/CZ-162	1999–2001	An Investigation of a Biological Control Agent for the Green Crab
Strong	R/CZ-176	2001–2004	Dynamics and Ecosystem Threats of Bidirectional Cordgrass Hybridization in San Francisco Bay
Somero	R/CZ-179	2001–2004	Physiological Adaptation and Invasion Success: A Comparison of Native and Invasive Bay Mussels in the Central California Hybrid Zone
Chapman	R/CZ-184	2003–2006	Controlling <i>Undaria</i> and Invasive Kelps through Management of the Gametophyte
Talley	R/CZ-190	2004–2006	The Invasion and Impacts of Tamarisk in Tijuana Estuary Salt Marshes
			
COASTAL OCEAN			
Wright	R/CZ-136	1997–1999	Predicting Flows in Semi-Arid Watersheds Using GIS Technologies
Dayton	R/CZ-141	1998–2000	Determining the Processes that Control Kelp Spore Abundance
Tjeerdema	R/CZ-142	1998–2001	Sublethal Toxic Effects of Water Pollution on Red Abalone
Smith	R/CZ-144	1998–2000	Domoic Acid in Marine Diatoms
Silver	R/CZ-145	1998–2000	Understanding Domoic Acid and Toxic Diatom Blooms
Hering	R/CZ-146	1998–2000	A Better Method for Evaluating Heavy Metal Water Pollution
Zimmer	R/CZ-152	1998–2001	Chemical Signals that Induce Marine Larvae to Settle to the Sea Floor
Brunk	R/CZ-153 & 167	1998–2002	New Techniques for Evaluating Human Fecal Water Contamination
Griggs	R/CZ-157	1998–1999	Coastal Cliff Erosion in San Diego County
Jiang	R/C-46PD	1999–2000	Detection of Human Viruses in Coastal Waters of Southern California
Lange	R/CZ-47PD	1999–2000	Historic Baseline of Diatom Diversity in Southern California
Guza	R/CZ-166	2000–2003	Surf-Zone Drifters: A New Tool for Observing Nearshore Circulations
Venkatesan	R/CZ-175	2001–2003	Fate and Transport of Planar and Mono-Ortho Polychlorinated Biphenyls and Polychlorinated Naphthalenes in Southern California Sediments
Stacey	R/CZ-170	2001–2004	Fluxes of Salinity, Pollution and Phytoplankton into the San Francisco Bay
Stolzenbach	R/CZ-171	2001–2004	Modeling Water and Sediment Quality in Two California Bays
Dugan	R/CZ-174	2001–2004	Ecological Impacts of Beach Grooming on Exposed Sandy Beaches
Dayton	R/CZ-177	2001–2004	Ghost Forests in the Sea: The Use of Marine Protected Areas to Restore Biodiversity to Kelp Forest Ecosystems in Southern California
Martin	R/CZ-81PD	2002	Does Beach Grooming Harm Grunion Eggs?
Breaker	R/CZ-181	2002–2005	Ocean Fronts off California: A New Product from GOES Satellite Data

...continued on reverse

Project Leader	Project No.	Dates	Title
EDUCATION			
Berger	E/G-12PD	1998–2000	An Interactive Online Atlas of Ocean Productivity
Polne-Fuller	R/E-54PD	1998–2000	Encouraging Learning Through an Exploration of the Sea
Pearse	E/UG-5PD	2000–2001	Assessing Sanctuary Shorelines: A Role for High School Students in Resource Management
Strand	R/E-71PD	2001	Supporting an Educational Marine Science Camp for Urban Youth
FISHERIES			
Burton	R/F-170	1997–1999	Recruitment Patterns in Red Sea Urchins: A Population Genetics Approach
Cailliet	R/F-174	1998–1999	Validating Age Estimates for Bocaccio Rockfish with Radiometric Dating
Friedman	R/F-43PD	1998–2000	First Known Sightings of the Withering Syndrome Bacterium Discovered North of San Francisco
Wilén/Botsford	R/F-179	2001–2003	Spatial Management of Fishes
Checkley	R/F-172 & 180	2001–2004	Developing an Instrument for Counting Fish Eggs
Hedgecock	R/F-184	2001–2004	Quantifying and Minimizing Risk that Hatchery Enhancement Will Reduce Genetic Diversity of White Seabass
Hedrick/Arkush	R/F-88PD	2002–2003	Sardine Disease: Viral Hemorrhagic Septicemia
Lowe/Kelley	R/F-192	2002–2004	Catch and Release of California Sheephead: Physiological and Behavioral Stress Effects and Post-Release Survival
Burton	R/F-189	2002–2005	Conservation Genetics of California Abalone: Developing Tools for Management
Graham	R/F-85PD & R/F-193	2002–2003 2004–2006	Movement Patterns and Bioenergetics of the Shortfin Mako Shark
FISHERIES HABITAT			
Greene/Kvitek	R/F-181	2000–2001	Characterizing Fisheries Habitat Along the California Continental Margin
NEW MARINE PRODUCTS			
Mayer	R/MP-73	1995–2000	Finding A Marine Natural Product that Targets Microglia in Brain
Epel	R/MP-79 & 89	1998–2002	Frontiers in Squid Reproduction: Prospecting for New Antibiotics
Shadwick	R/MP-77 & 91	1998–2005	Novel Biological Elastomers from Marine Organisms
Haygood	R/MP-84	1999–2000	Searching for New Anti-Cancer Drugs: Biosynthesis of Bacteria-Produced Bryostatins
Lehrer	R/MP-93	2000–2004	Novel, Post-Translationally Modified Peptide Antibiotics from Solitary Tunicates
Faulkner/Fenical	R/MP-87	2000–2005	The Biomedical Potential of California Marine Organisms
OCEAN ENGINEERING			
Sobey	R/OE-36	1998–2001	Wave-Climate Risk Analysis: Predicting the Size, Frequency and Duration of Large Wave Events
Ashford	R/OE-37	2001–2005	Mitigation of Coastal Bluff Instability in San Diego County
Ashford	R/OE-38	2002–2003	Seismic Performance of Port Facilities: Full-Scale Testing at the Port of Long Beach



This research is sponsored in part by a grant from the National Sea Grant College Program, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, under grant number NA04OAR4170038, Project number A/P-1. The views expressed herein are those of the author and do not necessarily reflect the views of NOAA or any of its sub-agencies. The U.S. Government is authorized to reproduce and distribute for governmental purposes.

CALIFORNIA SEA GRANT COLLEGE PROGRAM
Russell A. Moll, Director • Paul Olin, Extension Director
• Marsha Gear, Communications Director
University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0232
Phone: (858) 534-4440 Fax: (858) 453-2948 Web site: <http://www.csgc.ucsd.edu>

