

Table 1: Scientific Research Projects Proposed for Funding

PI	Title	Funding Request	Objective	Duration (years)
California Sea Grant Program				
Sydeman/ Bograd	<i>Tackling Ecological Complexity and Climate Change: Matches and Mismatches in the Seasonal Cycle of California's Marine Flora and Fauna</i>	\$349,469	Improve understanding of the climate-ecosystem-fish-wildlife system through field observations and retrospective studies of existing long-term data. Develop a series of physical oceanographic and food web indicators as tools for future management decisions. Conduct targeted outreach to managers, policy-makers, and user communities on climate change and food web dynamics.	3
Goddard/ Pearse	<i>Long-term Faunal Changes in California Nudibranchs: Indicators of Coastal Ocean Health and Biodiversity</i>	\$71,671	Determine if long-term changes have occurred in abundance, species richness, and community composition of rocky intertidal nudibranch gastropods in central California and evaluate whether or not the observed changes are consistent with the predicted effects of natural or anthropogenic climate change, or appear to have been caused by more localized environmental factors.	3
Gilly/ Field	<i>Ecology and Trophic Interactions of Jumbo Squid (<i>Dosidicus gigas</i>) in the California Current Ecosystem</i>	\$263,389	Provide a coherent picture of the current ecological status of <i>Dosidicus</i> (jumbo squid) in the California Current system off central California.	3
USC Sea Grant Program				
Kelley	<i>Proteomics to Develop Relevant Phenotypic Biomarkers of Environmental Impacts in Wild Marine Fishes of Southern California</i>	\$79,380	Use a fish's phenotypic response to anthropogenic inputs to elucidate relevant protein biomarkers and develop a new and more powerful diagnostic approach to assess environmental impacts and their mechanisms of action.	2
Murray/ Smith	<i>Distributions, Abundances, and Feeding Interactions with Native Consumers of Non-indigenous Seaweeds on Urban Southern California Shores</i>	\$121,106	Determine the distributions of NIS of seaweeds on urban southern California shores; quantify changes in the abundances of NIS and other seaweeds and invertebrates at sites characterized by different levels of disturbance; and examine which consumer and producer species are associated with these seaweeds.	2