## CONTRACTS/GRANTS AWARDED 2011-2012

AECOM H. Lenihan SB110068 Determining Risk Factors for 3 Zero Valent Iron Mater	10/1/11-12/31/11 ials.	\$5,450
<u>California Energy Commission</u> C. D'Antonio 20111150 Quantifying the Impacts of Interactions Between Fire, I		\$600,000
<u>California Wildlife Foundation</u> M. Kay UCSB2012 Fishery Overview Chapter for California Spiny Lobster	2/13/12-12/31/12 Fishery Management plan	\$25,000
<u>Conservation International</u> F. Davis SB120025 Modeling the Impacts of Climate Change on Indochina	8/1/11-12/31/11 's Primates.	\$10,000
F. Davis SB120091 Food Security and Ecosystem-based Adaptation - Glob Conservation International Subtotal	1/1/12-5/31/12 al Indicator Development and Mapping.	\$12,361 <b>\$22,361</b>
Department of Energy J. Boles DE-SC0003676 Fault-Related CO2 Degassing, Geothermics, & Fluid F Physiochemical Evidence & Modeling	2/1/12-1/31/13 Low in Southern California Basins	\$93,539
Department of Interior R. Archuleta G11AP20186 4th IASPEI/IAEE International Symposium on the Effe	7/1/11-12/31/11 ects of Surface Geology on Seismic Moti	\$15,000 on
S. Seale, R. Archuleta 20111352 Liquefaction Hazard in Western Washington	1/1/12-12/31/12	\$63,193
C. Sorlien G12AP20069 Plio-Quaternary Reactivation of Miocene Faults by the Carlsbad-Descanso-Coronado Bank Fault System: New		\$56,267 Mateo-

Department of Interior Subtotal		\$134,460
Electric Power Research Institute		
A. Keller EP-P34405/C15680 Targeted Watersheds Grant for Water Quality Trading in	10/1/11-12/31/11 n Ohio River Basin.	\$16,000
A. Keller EP-P42069/C18398	11/1/11-12/31/12	¢10.044
Modeling Nutrient Credit Calculations in Ohio River Ba	1/1/12-12/31/12	\$10,944 \$25,000
Nodeling Nutrent Credit Calculations in Onio River Ba	15111	
A. Keller EP-P42266/C18443	1/1/12-12/31/12	\$48,652
Scientific Basis for Water Quality Trading Electric Power Research Institute Subtotal		\$100,596
<u>Goleta Valley Land Trust</u>		
L. Stratton, J. Thorsch SB120116	1/1/12-3/31/13	\$36,000
Restoration of Bluff Edge at West Campus Bluffs.	1/1/12-5/51/15	\$50,000
National Aeronautics and Space Administration		
B. Bookhagen, G. Fisher NNX09AO24H	9/1/11-8/31/12	\$30,000
ASTER-Derived River Widths and Spatial Implications		
B. Bookhagen, M. Hanshaw		
NNX11AL4GH Volumetric Glacial Changes in the Central Andes Durin	10/1/11-9/30/12 g the Past Four Decades: Climate Char	\$30,000 ige, Debris
Coverage, or ENSO Variability.	0	U ,
J. Dozier		
NNX12AJ87G Assessing Water Resources in Remote, Sparsely Gauged	4/1/12-3/31/13 d, Snow-Dominated Mountains Basins.	\$183,156
J. Dozier, J. Frew		
NNX11AK35A	6/24/11-6/23/12	\$318,191
Error Analysis of MODIS Fractional Snow-Covered Are	ea and Snow Albedo in Mountain Regi	ons.
J. Dozier, K. Rittger		<b>#1</b> < 0.00
NNX09AN75H Improving Runoff Forecasting with Enhanced Estimates	10/1/11-3/31/12 s of Snow Properties.	\$16,000
L. Hess NNX12AD27G	1/6/12-1/5/13	\$311,000

Land and Resource Use on the Amazon Floodplain Under Evolving Management Systems and Environmental Change: Fish, Forests, Cattle, and Settlements.			
S. Maritorena, D. Siegel NNX11AE87G From UV to Fluorescence, a Semi-analytical Ocean Col	2/8/12-2/7/13 or Model for MODIS and Beyond.	\$129,396	
S. Maritorena, D. Siegel, J. Frew, N. Nelson NNX08AP36A Beyond Chlorophyll: Implementation and Distribution of Records.	5/12/12-5/11/13 of Innovative Ocean Color Earth Science	\$580,659 ce Data	
N. Nelson, C. Carlson, D. Siegel NNX09AL09G 5/29/12-5/28/13 Ocean Color Observations on CLIVAR: Inherent Optica Ocean Sections.	5/29/11-5/28/12 \$116,319 al Properties and Community Structure	\$83,085 on Trans-	
N. Nelson, D. Siegel NNX11AE99G Bermuda Bio-Optics Project: Enhancement of Measurer	2/8/12-2/7/13 ments for New Ocean Color Applicatio	\$226,004 ns.Renewal	
J. Shi 1360781 Technical Development for SMAP Soil Moisture Retrie	7/1/11-12/31/12 eval.	\$65,000	
D. Siegel NNX11AL94G Evaluating NPP Ocean Color Data Products in a Compl Program.	7/7/11-7/6/12 7/7/12-7/6/13 ex Coastal Environment: The Plumes a	\$160,417 \$114,583 and Blooms	
D. Siegel, F. Henderikx-Freit NNX11AQ26H Bio-optical Variability of Plumes, Blooms and Relaxati our Current Assessments?	9/1/11-8/31/12 ons in the Santa Barbara Channel: How	\$30,000 V Biased are	
D. Siegel, R. Lawson NH10AP28H Phytoplankton Community Composition and Inherent C Environment.	9/1/11-8/31/12 Optical Properties (IOP) in a Complex O	\$30,000 Coastal	
D. Siegel, N. Nelson NNX11AF63G	4/1/12-3/31/14 4/1/12-3/31/13	\$136,475 \$123,215	

A Mechanistic Approach Towards the Remote Assessment of Carbon Export by Sinking Particles in the Open Ocean.

Z. Wan NNX11AG43G Science Data Analysis Including TIR BRDF Retrieval Temperature/Emissivity Products in Long-term Accura National Aeronautics and Space Administra	cy and Consistency.	\$206,296 I-Surface <b>\$2,889,796</b>
National Oceanic and Atmospheric Administration L. Carvalho, C. Jones NA10OAR4310170 An Integrated View of the American Monsoon Systems	8/1/11-7/31/12 s: Observations, Models and Probabilis	\$122,915 stic Forecasts.
National Science Foundation R. Archuleta 1143751 4th International IASPEI Symposium on Effects of Sur Barbara, 23 - 26 August, 2011	9/1/11-8/31/12 face Geology on Seismic Motion UC a	\$28,237 Santa
D. Burbank, B. Bookhagen 1050070 The Pamir Frontal Thrust System: Rates, Style, and Co	8/1/11-7/31/14 ntrols on Deformation.	\$275,006
D. Burbank, B. Bookhagen EAR-1148268 Collaborative Research: Reconstructing Mid-Miocene- Paleo-Erosion Rates in the Eastern Andes, Northern Ar		\$143,370
L. Carvalho, C. Jones, B. Bookhagen 1116105 Climate Variability and Impacts on Regional Surface R	8/15/11-7/31/14 unoff in High Asia Mountains.	\$563,506
J. Clark OCE-1031352 Collaborative Research: Large-scale, Long-term, Multi Oceanic Crust Using a Borehole Observatory Network.		\$77,741 n the Upper
J. Cottle 1050043 Collaborative Research: Improving the Accuracy and P via ID Th-Pb Ages for Reference Materials.	5/1/12-4/30/13 recision of Monazite and Allanite Geo	\$68,390 ochronology
J. Cottle ANT-1043152	7/1/11-6/30/14	\$311,385

Exploring the Significance of Na-Alkalkine Magmatism in Subduction Systems, a Case Study From the Ross Orogen, Antartica.

J. Cottle, D. Kellett EAR-1119380 How Does the Mid-crust Accomodate Deformation in I	7/1/11-6/30/12 7/1/12-6/30/13	\$126,078 \$137,394	
Himalaya-Tibet System.	Large, not consider orogens: insign	it i foni the	
J. Dozier EAR-1015057 Rapid Quantitative Snow Stratigraphy for Avalanche Fe	10/1/12-9/30/13 orecasting Using Near-Infrared Photog	\$15,232 graphy.	
B. Hacker EAR-1008760 Collaborative Research: The Suturing Process: Insight	6/1/12-5/31/13 from the India-Asia Collision Zone.	\$119,333	
C. Jones, L. Carvalho AGS-1053294	7/15/11-6/30/12 7/1/12-6/30/13	\$179,422 \$182,096	
The Madden-Julian Oscillation and Predictability of Ex	treme Precipitation in the United State	es	
A. Keller, P. Holden, H. Lenihan, B. Harthron, G. Stucky, R. Nisbet, B. Cardinale, J. Schimel, W. Freudenburg, E. McC			
SB090050	9/1/11-8/31/12 9/1/08-8/31/12	\$1,850,030 \$53,114	
CEIN-Predictive Toxicological Assessment and Safe In Environment.	nplementation of Nanotechnology in t	he	
B. Kendall			
DEB-1120865	8/1/11-7/31/12 8/1/12-7/31/13	\$111,146 \$111,918	
Collaborative Research: Demographic heterogeneity in landscapes and communities			
M. Rioux OCE-1144648 Collaborative Research: Plutons as ingredients for contr intermediate plutons and lavas in the intra-Aleutian arc	2/15/12-7/31/13 inental crust: Pilot study of the differen	\$35,046 nces between	
D. Rood 1103532 Collaborative Research: Synchronizing ther North Ame Core Record Using Meteoric 10-BE-Flux.	9/15/11-8/31/14 erican Varve Chronology and the Gree	\$89,382 nland Ice	
D. Rood 1114436	9/15/11-8/31/14	\$150,017	

Collaborative Research: Deciphering Connections Among Land Management, Soil Erosion, and Sediment Yield in Large River Basins.

J. Schimel DEB-0919049 Collaborative Research: MSB: Microbial Control of Li	9/15/11-8/31/13 tter Decay at the Cellulose-Lignin Inte	\$92,093 erface	
J. Schimel, P. Holden DEB-1145875 Collaborative Research: Controls over C Sequestration	5/1/12-4/30/13 Physiology vs. Physics	\$408,228	
D. Siegel, R. Simons, B. Kendall OCE-1155813 Quantifying the importance of biological factors in the dynamics in the coastal ocean.	2/1/12-1/31/15 estimation of larval connectivity and p	\$370,141 population	
J. Thorsch DBI-0956281 Collaborative Proposal: Harnessing the Power of Herba of a Biodiversity	9/1/10-8/31/15 arium Specimens to Understand the Ch	\$35,545 nanging Flora	
National Science Foundation Subtotal		\$5,533,850	
<u>Northeastern University</u> J. Steidl 501947-78052 Induced-Partial Saturation Through Transport and Read	10/1/11-9/30/12 ctivity for Liquefaction Mitigation.	\$4,401	
Office of Naval Research E. Fleishman N00014-09-1-0896 Population Consequences of Acoustic Disturbance of N	12/31/11-12/31/12 Jarine Mammals.	\$20,633	
Purdue University			
J. Steidl NEES-4101-31902 NEES Consortium Operations: 2004-2014. Purdue University Subtotal	10/1/11-9/30/12 10/1/11-9/30/12 10/1/11-9/30/12 10/1/11-9/30/12 10/1/11-9/30/12	\$76,975 \$177,433 \$121,160 \$127,204 \$35,000 <b>\$537,772</b>	
The Institute of Museum and Library Services IML	<u>s</u>		
J. Thorsch, S. Sweet MA-05-11-0256-11 Vertebrate Collections Management Project.	8/1/11-7/31/13	\$80,655	

<u>University of California – Merced</u> C. Tague EAR 0725097 The California Critical Zone Observatory	9/1/11-8/31/13	\$88,625
<u>University of California – San Diego</u> L. Romero 20042310 Modeling and Analysis of Measurements of Waves Inte	1/1/12-12/31/12 racting with Eddies in the Gulf of Mexic	\$24,355 co
<u>University of California – Santa Cruz</u> R. Nisbet 20110022 Investigations in Fisheries Ecology.	10/1/11-9/30/12	\$113,553
<u>University of California – UC Mexus</u> C. Ji SB120026 Modeling of Large Earthquakes in the Mexican Subduc During an Hypothetical Earthquake.	7/1/11-6/30/12 tion Zone: Estimating the Distribution of	\$1,160 Slip
University of North Carolina, Charlotte C. Tague 20100588-01-UCS Influence of Stormwater Management Structures on Eco	9/1/11-8/31/12 blogical Function in Urban Streams.	\$13,688
University of Southern California R. Archuleta, T. Tanimoto 120044 2/1/11-1/31/12 Using Seismic Noise for the Purpose of Improving Shal	\$15,000 low S-Wave Velocity Models	
<u>University of Washington</u> J. Shi 727195 Forward Physical Radiative Transfer Models and Retrie Terrestrial Snow at X Band and Ku Band.	6/20/11-6/19/12 6/20/11-6/19/12 val Algorithms for Radar Remote Sensir	\$9,000 \$31,001 ng of
University of Washington Subtotal		\$40,001
US Geological Survey J. Cottle G12AP20049 Evaluating Mechanisms for Rare Earth Phosphate Mine Valley, Eastern Mojave, California	2/28/12-3/1/13 ralization in the Proterozoic Pinto Gneise	\$26,645 s, Music

C. Tague		
G10AC00309	7/1/11-6/30/12	\$78,555
	7/1/12-6/30/14	\$73,004
The Western Mountain Initiative: Vulne	erability and Adaptation to Climate Change in	Western Mountain
Ecosystems.		
US Geological Survey Subtota	l	\$178,204
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**Grand Total** 

\$10,682,014