

Gifts, Grants, and Contracts for January 2011

The following gifts, grants and contracts received by all campuses during the period January 1, 2011 through January 31, 2011 total \$18,648,217. The unofficial FY 2011 year-to-date total is: \$348,787,470.

Research

DA-Dept of Agriculture

Agriculture, Dept - Natl Institute of Food and Agriculture \$279,464

An Empirical Investigation of Increased Food Localization under Producer Heterogeneity: The Case of Hawaii

Leung, Ping Sun Department of Molecular Biosciences and Bioengineering

This proposed research will empirically investigate the structural implications of increased localization of food production since there has been neither an adequate conceptual framework nor empirical investigation. We intend to apply the heterogeneous trade model to the case of Hawaii's fresh fruit and vegetable producers.

Agriculture, Dept - Natl Institute of Food and Agriculture \$499,912

Investigation into Effect of Soil Moisture Depletion on Vegetable Crop Uptake of Microcontaminants Under Recycled Water Irrigation

Ray, Chittaranjan Water Resources Research Center

Measuring uptake of pharmaceuticals and other chemicals found in wastewater by vegetable crops grown and irrigated at varying rates with water spiked with those pharmaceuticals and chemicals.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$280,125

The Sphingolipid Pathway in Colon Cancer Chemoprevention

Kawamori, Toshihiko UH Cancer Center

In this project, we examine whether the sphingolipid pathway mediates develop of colon cancer and we attempt to translate the bench results to be-side clinical chemopreventive measures.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$56,510

University of Hawaii Research Scientist Award in Molecular Cardiology

Shohet, Ralph Victor Department of Medicine

Phase II (years 3-7) will establish a research and education program with the recruited scientist as principal investigator.

Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis \$576,682

Global HIV Drug Therapies and Mitochondrial Complications and Mechanisms

Gerschenson, Mariana John A. Burns School of Medicine

39 million people are living with HIV and when they are treated with drugs like d4T or ZDV this can cause side-effects like fat loss that we are trying to understand and prevent.

Health & Human Svc, Dept/NIH - Natl Inst of Biomed Imaging & Bioengrg \$317,283

Early Metazoan Nano-Collagens for Promotion of Wound Healing

Yanagihara, Angel A Pacific Biosciences Research Center

The proposal describes plans to develop a navel biomaterial discovered in the Hawaiian box jellyfish as a wound healing accelerant.

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$982,500

Sea Grant College Program Institutional Program

Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Gifts, Grants, and Contracts for January 2011

Research

DOD-Department of Defense

- Defense, Dept - Office of Naval Research \$105,944
Origins of the Kuroshio and Mindanao Currents
Qiu, Bo Department of Oceanography
This proposed research is to investigate the 3-dimensional structure and temporal variability of the westward-flowing North Equatorial Current (NEC) and its bifurcation into the Kuroshio and Mindanao Currents in the Philippine Sea.
- Defense, Dept - Office of Naval Research \$31,638
Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago
Flament, Pierre J Department of Oceanography
Deployment of high frequency radars to measure surface currents in the straits of the Philippines as part of a large coordinated ONR experiment.
- Defense, Dept - Office of Naval Research \$135,824
Utilizing Pro-bono Commercial Assets for Marine Mammal Surveys in High Naval Activity Area in Hawaiian Waters
Au, Whitlow W L Hawaii Institute of Marine Biology
Attach hydrophone listening devices to at least one Young Brother's inter-island barge to survey for whales and dolphins in waters between Oahu-Hawaii and Oahu-Kauai.
- Defense, Dept - Office of Naval Research \$58,547
Importance of Thin Plankton Layers in Hawaiian Food Web Interactions: Research Spanning from Physical Circulation to Spinner Dolphins
McManus, Margaret Anne Department of Oceanography
We propose an interdisciplinary approach to look at the relationships between the distribution of phytoplankton, zooplankton, mesopelagic micronekton, and spinner dolphins along with acoustical and optical scattering from these organisms and the topography and physical circulation patterns of the study region.
- Defense, Dept - Office of Naval Research \$99,439
Development of a Combined Raman and LIBS System for Stand-off Detection of Explosive Residues
Sharma, Shiv K Hawaii Institute of Geophysics and Planetology
The purpose of this proposal is to develop a combined Raman and LIBS system for a stand-off detection of explosives and residues.
- Defense, Dept - Office of Naval Research \$28,570
Remote Monitoring of Dolphins and Whales in the High Naval Activity Areas in Hawaiian Waters
Au, Whitlow W L Hawaii Institute of Marine Biology
Use remote ecological acoustic recorders (EARs) to determine the presence of dolphins and whale in high naval activity area of the main Hawaiian Islands.

DOE-Dept of Energy

- Energy, Dept - FED \$6,000,000
Development of High Yield, Tropical Feedstocks for Bioenergy
Hashimoto, Andrew G College of Tropical Agriculture and Human Resources
Investigate the use of tropical grasses for conversion into liquid transportation fuels.

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Research

DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service \$12,000
Evaluating the Risk of Diphacinone Rodenticide Pellets to Hawaiian Trigger Fish
Bingham, Jon-Paul Department of Molecular Biosciences and Bioengineering
Investigate the biological activity of Diphacinone pellets (Rodenticide) in Hawaiian Triggerfish.

Foreign

Korea Ocean Research & Development Inst (KORDI) \$24,148
Licensing HMRG Software for Use by KORDI
Shor, Alexander N School of Ocean and Earth Science and Technology
Korea Ocean Research and Development Institute (KORDI) will use software developed by University of Hawaii's Hawaii Mapping Research Group (HMRG) to process and analyze seafloor shape, composition and structure in data collected collaboratively during 2010 research cruises.

Trojan Technologies, Inc \$81,678
Ultraviolet Radiation Technology Investigation
Moreland, Victor D Water Resources Research Center
Provide assistance in testing protocols for various ultraviolet system components and full-scale systems testing and provide training materials to improve water and wastewater treatment knowledge to company personnel focusing on up-stream treatment processes that influence ultraviolet systems.

Hawaii- Business and Other

East West Center \$168,119
Climate Adaptation Partnership for the Pacific (CAPP): Pacific RISA Phase II
Burkett, Maxine Sea Grant College Program
This project will assist governments in preparing and adopting laws and policies that facilitate cost-effective, efficient, and equitable adaptation strategies. ICAP Director (Maxine Burkett), law students, and participating law faculty translate scientific research on climate change into policy recommendations and model legislation.

East West Center \$92,268
Climate Adaptation Partnership in the Pacific: Pacific RISA Phase 2 for UH SSRI
Anderson, Cheryl Social Science Research Institute
UH SSRI/Anderson's scope in the overall work will be to conduct vulnerability and adaptation assessments for planning climate change adaptation projects in the Pacific Islands, specifically related to reducing climate-related hazards risks.

Grove Farm Fish&Poi, LLC \$25,959
Field Testing Net Cage Nursery Production Technology for Marine Finfish Species
Tamaru, Clyde S Hawaii Institute of Marine Biology
The rationale for the proposed project is to use hatchery protocols already developed for the Pacific Threadfin, *Polydactylus sexfilis*, to generate sufficient numbers of moi fry to define and demonstrate pilot-scale nursery growout technologies that would be suitable for use when opakapaka fry or other species for that matter, become available in a commercial setting.

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Research

Hawaii- Government Agencies

Human Services, Dept - Ofc of Youth Svcs-HI	\$80,000
<u>Disproportionate Minority Contact Study</u>	
Umemoto, Karen N	Department of Urban and Regional Planning
To conduct a study of disproportionate minority confinement among youths in Hawaii's juvenile justice system. This mixed method study will use data from the Juvenile Justice Information Systems along with key informant interviews and archival data to identify the causes for disproportionality and ways to reduce it.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$33,593
<u>Aquatic Invasive Species Management Plan</u>	
Duffy, David C	Department of Botany
Facilitate the development and implementation of a statewide aquatic invasive species management plan.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$55,944
<u>Ballast Water / Hull Fouling Coordinator</u>	
Duffy, David C	Department of Botany
Coordinate the development of a comprehensive plan to prevent the introduction and dispersal of alien aquatic organisms in the ballast water and on the hulls of vessels in Hawaii waters.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$78,619
<u>The Development of a Biocontrol Option for Alien Algae Control</u>	
Duffy, David C	Department of Botany
Research sea urchins as a biocontrol option against invasive alien algae.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$88,163
<u>Fisheries Habitat Enhancement Monitoring</u>	
Duffy, David C	Department of Botany
Monitor the effectiveness of mechanical removal and increase in native herivory in the reduction of algal biomass in Kaneohe Bay.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$35,053
<u>Characterization of Dead Zones and Population Demography of Porites Compressa Along a Gradient of Anthropogenic Nutrient Input at Kahekili Maui</u>	
Jokiel, Paul L	Hawaii Institute of Marine Biology
Conduct surveys of environmental factors, coral cover and population structure at known distances from mapped effluent seeps to determine the effects of stressors and associated processes of decline. Monitor the progression of dead zones to determine whether they are progressive or resulted from one-time events.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$12,500
<u>Zebra Mussel Plan Development</u>	
Duffy, David C	Department of Botany
Develop a risk management and response strategy for the potential freshwater invasion of zebra mussels in Hawaii's streams.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$15,000
<u>Continuation of Statewide Plant Extinction Prevention Program Database and State Nurseries</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Expansion of the existing Plant Extinction Plant Program information systems and establishing the Nursery Inventory databases in the Pahole Mid Elevation and Kauai Nurseries.	

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Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$522,404
<u>Support for the HISC Program</u>	
Duffy, David C	Department of Botany
Coordinate invasive species management, assess new invasive species risks, ensure good science is applied to management plans, and implement a public outreach program.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$100,000
<u>Detection and Control of Invasive Species in Maui County</u>	
Duffy, David C	Department of Botany
Implement a county-wide strategy for early detection and control of invasive species in Maui county.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$40,000
<u>Plant Restoration and Enhancement, Micropropagation/Storage, Oahu</u>	
Sugii, Nellie C	Lyon Arboretum
Continue tissue culture propagation and storage of the critically endangered Hawaiian plants.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$255,635
<u>Natural Area Reserves Management: Hawaii Island</u>	
Duffy, David C	Department of Botany
Research and manage endangered species in their protected habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$207,436
<u>Detection and Control of Invasive Species in Maui County</u>	
Duffy, David C	Department of Botany
Implement a county-wide strategy for early detection and control of invasive species in Maui county.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$40,000
<u>Hawaiian Ecosystems: Management and Education: Koolau Watershed</u>	
Duffy, David C	Department of Botany
Monitor game check stations and run transects in native forest areas to determine impacts of pigs and axis deer in the Koolau Watershed in Maui.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$10,000
<u>Natural Area Reserves Management</u>	
Duffy, David C	Department of Botany
Research and manage endangered species in their protective habitats in the state's natural are reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$125,000
<u>Three Mountain Alliance Planning and Management</u>	
Morden, Clifford W	Department of Botany
Coordinate the watershed protection plan of the Three Mountain Alliance and address priority objectives of the management plan.	

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Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$178,408
<u>Natural Area Reserves Management: Hawaii Island</u>	
Duffy, David C	Department of Botany
Research and manage endangered species in their protected habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - HI	\$518,273
<u>Detection and Control of Invasive Species on the Island of Hawaii</u>	
Duffy, David C	Department of Botany
Detect new potentially invasive species, continue on-going efforts to contain known invasive species, and expand early detection surveys on the Big Island.	
Land & Natural Res, Dept - HI	\$119,748
<u>Detection and Control of Invasive Species on Oahu, FY 11</u>	
Duffy, David C	Department of Botany
Develop and implement a strategy to control and prevent invasive species on Oahu.	
Land & Natural Res, Dept - HI	\$203,608
<u>Detection and Control of Invasive Species on the Island of Kauai</u>	
Duffy, David C	Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on early detection and rapid response.	
Land & Natural Res, Dept - HI	\$142,670
<u>Endangered Maui Forest Bird Population Research and Management</u>	
Duffy, David C	Department of Botany
Research and manage recovery efforts for endangered Maui forest birds, including the Po'ouli.	
Land & Natural Res, Dept - HI	\$70,000
<u>Detection and Control of Invasive Species on the Island of Kauai</u>	
Duffy, David C	Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on early detection and rapid response.	

Hawaii- Health Organizations

Queen's Medical Center	\$67,908
<u>Prototype Academic Medical Department Model for Behavioral Health Research</u>	
Goebert, Deborah A	Department of Psychiatry
To accelerate the quantity and quality of health-related behavioral health research in Hawaii and improve quality of care for patients at QMC and in Hawaii, through translational research.	

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Research

Hawaii- Non-Profit Organizations

Pacific Health Research & Education Institute	\$49,949
<u>Reducing Cost-related Medication Nonadherence in Person with Diabetes</u>	
Tseng, Chien-Wen	Department of Family Medicine and Community Health
Dr. Tseng will be responsible for the study design, IRB applications, overseeing the claims analyses to measure medication adherence and drug cost, designing the physician survey instrument, data analyses, publishing manuscripts, and disseminating study findings.	
Pacific Health Research & Education Institute	\$45,346
<u>Reducing Cost-Related Medication Nonadherence in Persons with Diabetes</u>	
Juarez, Deborah Taira	Department of Public Health Sciences and Epidemiology
PI will contribute her expertise on measuring medication adherence and the cost of medications. PI will assist with study design, analysis plans, data interpretation, and writing up the findings, and publishing the data.	
Tri-Isle Resource Conservation & Dev Council	\$54,867
<u>East Maui Watershed Protection</u>	
Morden, Clifford W	Department of Botany
Conduct applied conservation research and management to protect the native rainforests in East Maui's Watershed.	
Tri-Isle Resource Conservation & Dev Council	\$94,740
<u>Maui Invasive Species Committee Coqui Frog Project</u>	
Duffy, David C	Department of Botany
Develop and implement long-term detection and control strategy for coqui frogs on Maui.	
University of Hawaii Foundation	\$11,300
<u>Weed Control Protocols for Native Hawaiian Plant Establishment</u>	
DeFrank, Joseph	Department of Tropical Plant and Soil Sciences
The scope of this project will be to develop site preparation protocols that will provide for rapid soil cover, maximize the efficiency of weed control efforts and increase the success of hydromulching establishment efforts. Budget: Salary: \$10,000.00, Fringe Benefits: \$1,300.00 Total: \$11,300.00	

Mainland- Business and Other

Alaska Department of Fish and Game	\$79,872
<u>Acoustic Monitoring for the Presence of Beluga Whales in Cook Inlet, Alaska</u>	
Lammers, Marc	Hawaii Institute of Marine Biology
Acoustic recording instruments will be deployed in Cook Inlet, Alaska to study the occurrence and movement of beluga whales. This information will be used to establish areas of critical habitat that will aid in the conservation of these endangered animals.	
CSA International, Inc.	\$42,426
<u>Benthic Infauna Community Structure in Sediments in Apra Harbor, Guam, Mariana Islands, 2010</u>	
Bailey-Brock, Julie H	Water Resources Research Center
The study will gather a baseline assessment of benthic invertebrate abundance in Apra Harbor on Guam prior to dredging at the site. 175 samples will be processed and identified using microscopes. Crustaceans will be identified by an arthropod specialist. Statistical data and analyses will be combined in a final report.	

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Research

Mainland- Business and Other

Nathan Associates Inc. \$38,232

Pacific Disaster Center AADMER Work Plan

Gaines, James R Vice President for Research

The Pacific Disaster Center will prepare an AADMER Work Plan: Risk Assessment, Monitoring and Early Warning activity under Phase II of the ASEAN-US Technical Assistance and Training Facility

Nathan Associates Inc. \$112,897

Pacific Disaster Center DANA Workshop

Gaines, James R Vice President for Research

The Pacific Disaster Center will deliver a Post-Disaster Damage and Needs Assessment Manual and Training Workshop (DANA) activity under Phase II of the ASEAN-US Technical Assistance and Training Facility

Mainland- Non-Profit Organizations

Consortium for Ocean Leadership \$12,000

Post Cruise Expedition 325

Herrero-Bervera, Emilio Hawaii Institute of Geophysics and Planetology

Study of rock core samples from expedition 325.

Schmidt Research Vessel Institute \$25,187

Abysal Scavenger Ecology in the Western Atlantic

Drazen, Jeffrey C Department of Oceanography

This project will investigate scavenger ecology on the abyssal plain of the North Atlantic Ocean using baited cameras.

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$593,477

Water and Habitable Worlds

Meech, Karen J Institute for Astronomy

This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.

National Aeronautics & Space Administration \$45,000

Hyspiri Preparatory Data Sets for Volcanology

Wright, Robert Hawaii Institute of Geophysics and Planetology

Simulating the data which will be provided by a future NASA satellite, using data acquired by existing NASA satellites.

National Aeronautics & Space Administration \$20,000

A Doppler and Transit Search for Signpost Planets Around Nearby M Dwarf Stars

Gaidos, Eric J. Department of Geology and Geophysics

Establish a lower limit for M stars w/Neptune-mass planets on short orbits; identify additional planets for the mass radius diagram; provide targets for major telescopes; generate a catalog of candidates for planet searches of M dwarf stars zones.

Gifts, Grants, and Contracts for January 2011

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$74,380

Detecting Dark Energy from WMAP and Pan-STARRS1

Szapudi, Istvan Institute for Astronomy

We propose to detect the Integrated Sachs-Wolf (ISW) effect in the WMAP (Wilkinson Microwave Anisotropy Probe) CMB (Cosmic Microwave Background) maps using the one year Pan-STARRS1 (PS1) photometric LRG (Sloan Luminous Red Galaxy) sample.

National Aeronautics & Space Administration \$85,523

Water and Habitable Worlds

Meech, Karen J Institute for Astronomy

This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.

National Aeronautics & Space Administration \$53,587

Recruiting Undergraduates to Space Science Through the Wonders of Cosmochemistry

Taylor, G Jeffrey Hawaii Institute of Geophysics and Planetology

We will create new course materials covering cosmochemistry and planetary science for geochemistry instructors to use in their upper-level undergraduate courses. The materials will include PowerPoint lecture slides and an online searchable database of graphics and illustrations pertinent to cosmochemistry.

National Aeronautics & Space Administration \$87,851

A NASA Calibrated, Multi-Wavelength Atlas of Luminous Infrared Galaxies

Sanders, David Bruce Institute for Astronomy

Produce an atlas of Luminous Infrared Galaxies using NASA multi-mission archives.

National Aeronautics & Space Administration \$56,659

Beyond MACS: An All-Sky Search for the Most X-ray Luminous Clusters of Galaxies out to z~1

Ebeling, Harald Institute for Astronomy

We propose to use the faintest X-ray sources detected in the ROSAT All-Sky Survey and imaging data from Pan-STARRS (PS1) to identify the most massive, distant galaxy clusters. The properties of these systems will then be used to investigate the nature of dark matter and dark energy.

National Aeronautics & Space Administration \$301,000

Antarctic Impulsive Transient Antenna: A Suborbital Ultra-High Energy Particle Telescope

Gorham, Peter W Department of Physics and Astronomy

ANITA3: employ an array of up to 48 ultra-wide band, dual polarization horn antennas, arrayed to view the entire ice sheet below it, & triggering on any detectable impulsive radio signal. Neutrino discovery potential will be enhanced by a factor of 2 or more above ANITA2.

National Science Foundation

National Science Foundation \$15,990

Doctoral Dissertation Research: Building and Testing Models of Decision Making in Plural System Contexts

White, Geoffrey M Department of Anthropology

Ethnographic methods including participant-observation, interviews, and a survey will be utilized to investigate the prevention and treatment of malaria in Tautu, Vanuatu.

Gifts, Grants, and Contracts for January 2011

Research

National Science Foundation

National Science Foundation \$284,545

Molecular Functions of Protein Disulfide Isomerases in Redox-Metabolism and Protein Folding Pathways in Plants

Christopher, David A Department of Molecular Biosciences and Bioengineering

This research will identify how the protein disulfide isomerase enzyme family controls leaf aging and seed development in plants. These processes are critical for agricultural productivity. Graduate and numerous undergraduate students will be trained in modern methods of molecular biology.

National Science Foundation \$98,978

CAREER: High Fidelity Haptic Interaction using Large Range of Motion Magnetic Levitation Systems for Medical Applications

Berkelman, Peter John Department of Mechanical Engineering

(1) Developing novel magnetic levitation with large ranges of motion, and fast and accurate position and force control, (2) developing interactive simulations with the maglev systems for surgical simulation and physical rehabilitation, (3) evaluating the realism and effectiveness of the interactive systems.

National Science Foundation \$14,881

Collaborative Research: The Internal Tide and Mixing in Monterey and Ascension Canyons

Carter, Glenn S Department of Oceanography

A collaborative proposal between UH and APL/UW to model and conduct intensive observations in Monterey Canyon, CA and nearby Ascension Canyon. The focus is on how internal tides propagate in canyons and are steered and focused by the topography.

US Colleges and Universities

California Berkeley, University of \$28,210

Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope

Aspin, Colin Institute for Astronomy

To continue collaboration with the Nearby Supernova Factory and the University of California in providing telescope time for the SNIFS instrument to conduct supernova studies.

Language Learning Prog - Univ of Michigan \$1,800

Motivation and Persistence of Learning among L2 Learners in Self-Instruction

Brown, James Dean Department of Second Language Studies

Questionnaire on learners' motivation will be administered to Japanese high school students learning English in self-instruction and among them those who agree will be interviewed twice with a seven-month interval.

Maryland, University of \$32,500

EPOXI Mission

Meech, Karen J Institute for Astronomy

To reduce and analyze data obtained and characterizing the nucleus for the EPOXI mission. We will continue to characterize the activity of the mission target 103P/Hartley 2, analyze data coordinate observers around the world and use this data to interpret the spacecraft in-situ results.

Gifts, Grants, and Contracts for January 2011

Research

US Colleges and Universities

Scripps Institution of Oceanography (UC San Diego) \$205,092

Current Measurements on Global Ocean Repeat Hydrography Cruises, 2009-2014

Firing, Eric Joint Institute for Marine and Atmospheric Research

1) To provide high-quality processed shipboard ADCP (SADCP) and lowered ADCP (LADCP) measurements on all cruises of the 2009-2014 phase of the CLIVAR Repeat Hydrography program, 2) to assist ODF personnel in acquiring a basic LADCP operational capability so as to facilitate this part of the CLIVAR measurements.

Southern California, University of \$63,271

Characterizing Genetic Susceptibility to Breast and Prostate Cancer; the BPC3

Le Marchand, Loic UH Cancer Center

The major goal of this project, which is part of the "Cohort Consortium," is to allow for large-scale analyses of breast and prostate cancer risk in relation to genetic polymorphisms and gene-environment interactions that affect hormone metabolism.

Utah State University \$56,495

Sunn hemp and its Allelopathic Compounds for Vegetable Production in Hawaii and Beyond

Wang, Koon-Hui Department of Plant and Environmental Protection Sciences

Improve and promote the use of the sunn hemp as a cover crop through the understanding of its toxic compounds for sustainable pest management.

Subcount: 73

Subtotal: \$15,542,627

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - FED \$21,963

2010 Norman E. Borlaug International Agricultural Science and Technology Fellowship program, Hosting Visiting Fellow from Cameroon

Uchida, Janice Y Department of Plant and Environmental Protection Sciences

Host a visiting Borlaug Fellow from Cameroon at the University of Hawaii for two months. The fellow will be mentored by Dr. Janice Uchida and will be conducting research on fungal diseases of cacao.

Agriculture, Dept - FED \$48,000

Understanding and Managing Health Risks Associated with the Nematode Angiostrongylus Cantonensis - The Rat Lungworm

Cowie, Robert H Pacific Biosciences Research Center

Conference to understand and manage the health risks associated with the rat lungworm nematode *Angiostrongylus cantonensis*.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$29,948

Community-Based Capacity Building: Academic-Community Partnerships Using Participatory Action Research to Bridge Across the USAPI

Qureshi, Kristine School of Nursing and Dental Hygiene

The UH SONDH will implement a project with the overall aim of developing capacity for community based participatory research in the USAPI. The project work will be accomplished through training program and meetings to be conducted in the USAPI jurisdictions and culminate in a grant proposal.

Gifts, Grants, and Contracts for January 2011

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Inst of Genl Med Sci \$46,901

Identifying Cellular and Molecular Interactions Along the Pathway to Symbiosis - Sr Fellow- E. Vallen

Martindale, Mark Q. Pacific Biosciences Research Center

We will analyze the interaction between cnidarians and photosynthetic algae that is the basis for coral reef ecosystems. The analysis is likely to give insight into the interaction of other animals with intracellular eukaryotic parasites.

DOC-Dept of Commerce

Commerce, Dept - FED \$46,000

Dean John A. Knauss Marine Policy Fellowship - Jennifer Salerno

Okimoto, Darren K Sea Grant College Program

Provide educational experience in the policies and processes of the legislative and executive branches of the federal government to graduate students in aquatic-related fields.

Commerce, Dept - Natl Telecom & Information Adm \$499,916

PEACESAT - Public Service Telecommunications in the Pacific Islands Region

Okamura, Norman H Social Science Research Institute

The proposal intends to provide satellite resources, technical assistance, and program development support for educational, government, health and regional organizations in the Pacific Islands Region.

Hawaii- Business and Other

Maui County Community Television, Inc \$36,339

MCC-TV Educational Access Television

Sakamoto, Clyde M Chancellor, University of Hawaii Maui College

Manage, coordinate, and operate MCC-TV Educational Access Television. This channel is one of the designated providers of educational television programming in Maui County.

University of Hawaii Professional Assembly (UHPA) \$25,000

Release Time and Related University Expenses: Duane Stevens (President, UHPA)

Stevens, Duane Edwin Department of Meteorology

Release time for service as University of Hawaii Professional Assembly President, 2009-2010.

Hawaii- Dept of Education

Education, Dept - HI \$15,000

To Plan, Develop and Implement a Business and Marketing Plan Competition

Roley, V. Vance Shidler College of Business

Provide administrative support to organize the 2010 High School Marketing Plan and Business Plan Competitions.

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Non-Research

Hawaii- Government Agencies

County of Maui - Ofc of Economic Development	\$37,500
<u>Maui County Aquaculture Extension Program</u>	
Okimoto, Darren K	Sea Grant College Program
The major role of the Maui County Aquaculture Extension Program is to serve as a conduit between researchers involved in developing technologies to improve production capabilities, hatchery operations, husbandry practices and transferring the developed technologies to Maui County's aquafarmers.	
County of Maui - Planning Department	\$43,436
<u>Maui County Coastal Hazards Extension Program</u>	
Okimoto, Darren K	Sea Grant College Program
To provide sound technical advice to the county on shoreline development, beach preservation and restoration, coastal hazard mitigation options, coastal erosion response, climate change including potential sea-level rise impacts, and other coastal processes-related issues.	
Hawaiian Affairs, Office of-HI	\$5,000
<u>The Study of Childhood Obesity in Native Hawaiian Children</u>	
Okiihiro, May	Department of Pediatrics
The purpose of this contract is for Contractor to provide a White Paper on the topic of Childhood Obesity in Hawaii.	
Health, Dept - HI	\$32,000
<u>Physical Activity Video Training Modules</u>	
Pecsok, Michael H	Chancellor, Leeward Community College
The production unit at Leeward Community College is to deliver to the State of Hawaii Department of Health, a series of ten (10) presentations on the planning, implementation, and evaluation of physical activity strategies in educational and everyday settings	

Hawaii- Non-Profit Organizations

Consuelo Zobel Alger Foundation	\$29,996
<u>Native Hawaiian Learning Program: Ho`oponopono</u>	
Mokuau, Noreen K	School of Social Work
To develop and produce a 20-3 minute video on ho`oponopono with master cultural teachers/kupuna Richard and Lynette Paglinawan.	
Hawaii Hotel & Rest Indust Empl & Trng Trst	\$123,420
<u>Hawaii Hotel & Restaurant Industry Employment Training Trust (HARIETT)</u>	
Hoshiko, Carol A	Chancellor, Kapiolani Community College
Liase between Hawaii Hotel & Restaurant Industry Employment & Training Trust (HARIETT) & the community college for apprenticeship program. Meet with (State & Federal) government offices in the US regarding apprenticeship program labor issues. Schedule classes & provide additional hotel employee programs.	
Olelo Community Television	\$49,364
<u>University of Hawaii - Supplemental Projects 2010</u>	
Okimoto, Hae K	Information Technology Services
Produce course and programs for public access channel, Oceanic 55.	

Gifts, Grants, and Contracts for January 2011

Non-Research

Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Dev Council	\$8,660
<u>Maui Invasive Species Committee Little Fire Ant Project</u>	
Duffy, David C	Department of Botany
Survey Maui County for Little Fire ant infestations and conduct public awareness campaign about this invasive species threat.	
Tri-Isle Resource Conservation & Dev Council	\$157,600
<u>Support for the Maui County Invasive Species Committee Project: Miconia Containment</u>	
Duffy, David C	Department of Botany
Prevent, control and eradicate the most serious invasive species threats in the county of Maui, focusing heavily on Miconia calvescens.	
University of Hawaii Foundation	\$248,211
<u>Hawaii Nursing Simulation Center</u>	
Boland, Mary G	School of Nursing and Dental Hygiene
Subcontract in accordance with the UHF gift agreement between The Queen's Medical Center and UHF. The gift to the School of Nursing & Dental Hygiene is to help design and create the Hawaii Nursing Simulation Center as a statewide resource to address the ongoing need for nursing clinical and workforce education.	
University of Hawaii Foundation	\$58,500
<u>Myron Pinky Thompson Chair</u>	
Mau, Marjorie K H	Department of Native Hawaiian Health
To develop a research and training program on health disparities in Native Hawaiian and other underserved populations.	
University of Hawaii Foundation	\$38,000
<u>Center for Island Climate Adaptation and Policy</u>	
Burkett, Maxine	Sea Grant College Program
To provide support for activities relating to the Center for Island Climate Adaptation and Policy.	
University of Hawaii Foundation	\$5,000
<u>CKS Editor Course Release</u>	
Bingham, Thomas	College of Arts and Humanities
Salary and fringe for a Lecturer A to cover a 3 credit course for Professor Min Sun Kim while she is the Center for Korean Studies' Publication Editor.	
University of Hawaii Foundation	\$33,253
<u>Kellog P-3 Expenditures</u>	
Johnsrud, Linda K	Executive Vice President for Academic Affairs/Provost
To pay for P-20 salary, fringe and program costs.	
University of Hawaii Foundation	\$75,000
<u>Solar Decathlon 2011</u>	
Rockwood, David Conrad	School of Architecture
support the design and construction of Team Hawaii's entry for the Solar Decathlon 2011.	

Gifts, Grants, and Contracts for January 2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$29,000
Asia-Pacific Economic Cooperation (APEC)
Greenwood, M.R.C. President, University of Hawaii System
To support the President's and University's liason to the APEC Host Committee, which will be facilitating the 2011 APEC conference to be held in Honolulu, Hawaii.

Mainland- Business and Other

HDRRe2M \$4,424
Navy Marine Species Monitoring Workshop
Au, Whitlow W L Hawaii Institute of Marine Biology
Attend and participate in Navy Marine Species Monitoring workshop in Arlington, Virginia.

National Renewable Energy Lab \$100,000
Solar Decathlon 2011: Team Hawaii
Rockwood, David Conrad College of Engineering
Research and training for students in solar-powered energy-neutral homes. The proposed effort will involve a multidisciplinary team of students from design through construction of a solar-powered energy-neutral home for the 2011 Solar Decathlon competition.

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$146,661
Center for Advancing Systemic Heliophysics Education - HI CASHed
Kadooka, Mary Ann M Institute for Astronomy
Educational outreach and workshops with heliophysics activities and curriculum development used with teachers and students in Hawaii, the Pacific Islands and Continental U.S. Public outreach to support similar goals.

National Science Foundation

National Science Foundation \$7,500
REVSYS: A Revision of New World Ampullariidae: An Emerging Model System in Evolutionary Biology and Systematics Training
Cowie, Robert H Pacific Biosciences Research Center
This is a supplemental request for training of an undergraduate student to participate in systematics research on apple snails.

National Science Foundation \$82,919
NSF-ECCS Grantees Conference. To Be Held in Honolulu, Hawaii, November, 17-19, 2010
Iskander, Magdy F. Hawaii Center for Advanced Communications
The 2010 NSF-ECCS Grantees Conference will be hosted by the Hawaii Center for Advanced Communications, to be held on November 17-19, 2010, at the Hilton Hawaiian Village, Honolulu, Hawaii. 150 participants will attend.

Gifts, Grants, and Contracts for January 2011

Non-Research

National Science Foundation

National Science Foundation \$142,828

Enabling Hawaii to COMPETE: Seizing the Opportunity for Equitable Connectivity

Lassner, David K Information Technology Services

This project will acquire and implement two 10Gbps circuits from Hawaii to the West Coast to improve connectivity to U.S. national research and education networks for all members of Hawaii's statewide research and education community and their national and international collaborators.

US Colleges and Universities

Arizona, University of \$207,026

Water Quality Research and Extension Coordination in Hawaii

Evensen, Carl I Department of Natural Resources and Environmental Management

Promote delivery of regional integrated educational programming and applied research to address regional and multi-regional water quality and water resource concerns.

California Los Angeles, University of \$250,000

Infrastructure for NIDA Clinical Trials Network (NIDA-CTN)

Chang, Linda Department of Medicine

The PI and her staff will develop and maintain an appropriate and safe clinical research infrastructure in order to participate in and conduct eligible clinical trials through the NIDA Clinical Trials Network (CTN).

Harvard University \$540

Institute for Astronomy Support For Christopher Beaumont

Williams, Jonathan P. Institute for Astronomy

Christopher Beaumont will be working with Harvard Professor Alyssa Goodman at the Harvard Center for Astrophysics (CfA) on a collaborative project as part of this PhD thesis research. He will be analyzing data from mauna Kea telescopes and comparing with numerical simulations and other observational data.

Los Rios Community College District \$398,744

Los Rios HITECH Community College Consortium: Educating Information Technology Professionals in Health Care

Quigley, Peter S Vice President for Community Colleges

To train a skilled workforce in Health Information Technology (HIT) to facilitate a transformed health system by the year 2012.

Rhode Island, University of \$21,941

Sustainable Coastal Communities & Ecosystems

Haws, Maria C. Pacific Aquaculture-UHH

Subcount:	36	Subtotal:	\$3,105,590
Count:	<u>109</u>	Total:	<u>\$18,648,217</u>

Funds Received from UH Foundation for 01/01/2011 - 01/31/2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$5,000
"CKS Editor Course Release"	
Bingham, Thomas	College of Arts and Humanities
Salary and fringe for a Lecturer A to cover a 3 credit course for Professor Min Sun Kim while she is the Center for Korean Studies' Publication Editor.	
University of Hawaii Foundation	\$248,211
"Hawaii Nursing Simulation Center"	
Boland, Mary G	School of Nursing and Dental Hygiene
Subcontract in accordance with the UHF gift agreement between The Queen's Medical Center and UHF. The gift to the School of Nursing & Dental Hygiene is to help design and create the Hawaii Nursing Simulation Center as a statewide resource to address the ongoing need for nursing clinical and workforce education.	
University of Hawaii Foundation	\$38,000
"Center for Island Climate Adaptation and Policy"	
Burkett, Maxine	Sea Grant College Program
To provide support for activities relating to the Center for Island Climate Adaptation and Policy.	
University of Hawaii Foundation	\$29,000
"Asia-Pacific Economic Cooperation (APEC)"	
Greenwood, M.R.C.	President, University of Hawaii System
To support the President's and University's liason to the APEC Host Committee, which will be facilitating the 2011 APEC conference to be held in Honolulu, Hawaii.	
University of Hawaii Foundation	\$33,253
"Kellog P-3 Expenditures"	
Johnsrud, Linda K	Executive Vice President for Academic Affairs/Provost
To pay for P-20 salary, fringe and program costs.	
University of Hawaii Foundation	\$58,500
"Myron Pinky Thompson Chair"	
Mau, Marjorie K H	Department of Native Hawaiian Health
To develop a research and training program on health disparities in Native Hawaiian and other underserved populations.	
University of Hawaii Foundation	\$75,000
"Solar Decathlon 2011"	
Rockwood, David Conrad	School of Architecture
support the design and construction of Team Hawaii's entry for the Solar Decathlon 2011.	

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$11,300
"Weed Control Protocols for Native Hawaiian Plant Establishment"	
DeFrank, Joseph	Department of Tropical Plant and Soil Sciences
The scope of this project will be to develop site preparation protocols that will provide for rapid soil cover, maximize the \$10,000.00, Fringe Benefits: \$1,300.00 Total: \$11,300.00	

Count: 8

Total: \$498,264

**Extramural Research Awards
for the Month of
January 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	2	\$779,376	5.01%
DHHS-Dept of Health and Human Services	4	\$1,230,600	7.92%
DOC-Dept of Commerce	1	\$982,500	6.32%
DOD-Department of Defense	6	\$459,962	2.96%
DOE-Dept of Energy	1	\$6,000,000	38.60%
DOI-Dept of Interior	1	\$12,000	0.08%
Foreign	2	\$105,826	0.68%
Hawaii- Business and Other	3	\$286,346	1.84%
Hawaii- Government Agencies	22	\$2,932,054	18.86%
Hawaii- Health Organizations	1	\$67,908	0.44%
Hawaii- Non-Profit Organizations	5	\$256,202	1.65%
Mainland- Business and Other	4	\$273,427	1.76%
Mainland- Non-Profit Organizations	2	\$37,187	0.24%
National Aeronautics and Space Administration	9	\$1,317,477	8.48%
National Science Foundation	4	\$414,394	2.67%
US Colleges and Universities	6	\$387,368	2.49%
Total:	<u>73</u>	<u>\$15,542,627</u>	<u>100%</u>

**Extramural Non-Research Awards
for the Month of
January 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	2	\$69,963	2.25%
DHHS-Dept of Health and Human Services	2	\$76,849	2.47%
DOC-Dept of Commerce	2	\$545,916	17.58%
Hawaii- Business and Other	2	\$61,339	1.98%
Hawaii- Dept of Education	1	\$15,000	0.48%
Hawaii- Government Agencies	4	\$117,936	3.80%
Hawaii- Non-Profit Organizations	12	\$856,004	27.56%
Mainland- Business and Other	2	\$104,424	3.36%
National Aeronautics and Space Administration	1	\$146,661	4.72%
National Science Foundation	3	\$233,247	7.51%
US Colleges and Universities	5	\$878,251	28.28%
Total:	<u>36</u>	<u>\$3,105,590</u>	<u>100%</u>

**Extramural Research Awards
Year to Date: 07/01/10 - 01/31/11
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	47	\$6,823,438	3.53%
DHHS-Dept of Health and Human Services	64	\$44,805,119	23.21%
DOC-Dept of Commerce	60	\$26,921,113	13.95%
DOD-Department of Defense	36	\$22,161,145	11.48%
DOE-Dept of Energy	21	\$21,799,873	11.29%
DOI-Dept of Interior	52	\$5,396,088	2.80%
ED-Dept of Education	2	\$866,401	0.45%
Federal Agencies	9	\$4,191,146	2.17%
Foreign	19	\$5,364,081	2.78%
Hawaii- Business and Other	17	\$1,126,076	0.58%
Hawaii- Government Agencies	83	\$9,690,751	5.02%
Hawaii- Health Organizations	5	\$696,380	0.36%
Hawaii- Non-Profit Organizations	39	\$1,958,412	1.01%
Mainland- Business and Other	30	\$3,225,399	1.67%
Mainland- Health Organizations	9	\$1,139,434	0.59%
Mainland- Non-Profit Organizations	18	\$638,085	0.33%
Miscellaneous	1	\$215,987	0.11%
National Aeronautics and Space Administration	37	\$5,504,289	2.85%
National Science Foundation	71	\$22,243,734	11.52%
US Colleges and Universities	66	\$8,264,800	4.28%
Total:	<u>686</u>	<u>\$193,031,751</u>	<u>100%</u>

Note: YTD amounts include adjustments.

Extramural Non-Research Awards
Year to Date: 07/01/10 - 01/31/11
Distribution by Sponsors

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	13	\$2,787,915	1.79%
DHHS-Dept of Health and Human Services	29	\$7,087,596	4.55%
DOC-Dept of Commerce	23	\$38,156,913	24.50%
DOD-Department of Defense	5	\$768,049	0.49%
DOE-Dept of Energy	1	\$750,000	0.48%
DOI-Dept of Interior	14	\$597,887	0.38%
ED-Dept of Education	74	\$36,785,531	23.62%
Federal Agencies	12	\$8,677,584	5.57%
Foreign	23	\$1,429,452	0.92%
Hawaii- Business and Other	33	\$5,268,873	3.38%
Hawaii- Dept of Education	8	\$1,946,508	1.25%
Hawaii- Government Agencies	70	\$17,778,625	11.41%
Hawaii- Health Organizations	9	\$1,299,233	0.83%
Hawaii- Non-Profit Organizations	68	\$4,817,032	3.09%
Mainland- Business and Other	12	\$776,450	0.50%
Mainland- Health Organizations	1	\$160,000	0.10%
Mainland- Non-Profit Organizations	24	\$2,861,894	1.84%
National Aeronautics and Space Administration	5	\$3,692,825	2.37%
National Science Foundation	35	\$18,027,953	11.57%
US Colleges and Universities	27	\$2,085,399	1.34%
Total:	<u>486</u>	<u>\$155,755,719</u>	<u>100%</u>

Note: YTD amounts include adjustments.