Gifts, Grants, and Contracts

The following gifts, grants and contracts received by all campuses except the University of Hawai'i at Hilo during the period May 1, 2008 through May 31, 2008 total $18,067,297. The University of Hawai'i at Hilo received a total of $448,145 during the same period.

Gifts, Grants and Contracts Received  May 1 - 31, 2008

RESEARCH AWARDS

FROM: Dept of Education

1. DOI-Fish & Wildlife  $11,750
   "Mapping Non-native/Invasive Plants on Midway Atoll NWR (Eastern Island, Sand Island, and Spit Island) for Early Detection and Rapid Response"
   Duffy, David  Botany
   Conduct a follow-up weed survey of potentially invasive plants by using previously surveyed areas on Midway Atoll.

2. DOI-Nat'l Park Service  $75,742
   "Identification of Ancient and Historic Trails in the Ala Kahakai Corridor in Kohala, Kona and Kau, Island of Hawaii"
   Minerbi, Luciano  Urban & Regional Planning
   Identification of ancient and historic trails in the Ala Kahakai Corridor in Kohala, Kona and Kau, Island of Hawaii.

FROM: DHHS-Dept of Health & Human Services

1. National Institutes of Health  $259,832
   "CRF-Norepinephrine Interactions in Stress and Depression"
   Dunn, Adrian  Pacific Biosciences Research
   The goal of this project is to examine the interactions between the brain neurons containing norepinephrine (NE) and corticotropin-releasing factor (CRF) in mice and rats under conditions of chronic stress to provide insight into the mechanisms involved in anxiety disorders and depression.

2. National Institutes of Health  $240,557
   "TRPV Pharmacophores from Cnidarian Venom"
   Yanagihara, Angel A  Pacific Biosciences Research
   Cnidarian venom fractions will be screened for Transient Receptor Potential (TRP) vanilloid receptor related class channel activity (TRPV1 and TRPV2). Active compounds will be isolated and then chemically and pharmacologically characterized.

3. NIH-Nat'l Inst of Mental Health (NIMH)  $69,200
   "Neurologic Predictors of Schizophrenia"
   Schiffman, Jason  Psychology
   Propose to analyze existing data that might be useful in the prediction of psychopathology. (This is for Progress Report 1.)
4. NIH-Nat'l Inst of Nursing Research

"A Culturally Relevant Risk Reduction Intervention with Native Hawaiian Mothers"

Dodgson, Joan E. Nursing

A Hawaiian cultural model applied within a community-based participatory research paradigm will be integrated in this research. The intervention incorporates the existing evidence-base on perinatal risk reduction through home visiting, social support and lactation management framed within a Native Hawaiian cultural context. A 2-group quasi-experimental design is used.

FROM: DOC-Dept of Commerce

1. DOC-National Oceanic & Atmospheric Administration $1,700,000

"Developing the Hawaii-Pacific Ocean Observing and Information System"

Taylor, Brian Sch Ocean, Earth Sci & Tec

Year 2 of 3, continuing development of ocean observing system of Oahu.

2. NOAA-National Ocean Service (NOS) $60,408

"Supplement to Project Award Number: NA05NOS4261173 Integrated Coral Ecosystem Mapping and Monitoring of U.S. Pacific Reefs"

Jokiel, Paul L Haw Inst Marine Bio-SOEST

Conduct fieldwork and subsequent lab analyses of NOAA benthic habitat maps in the Pacific, build on previous fish-habitat utilization work, assist with previously approved fish-habitat utilization assessment and monitoring projects in the Main Hawaiian Islands and US Pacific territories using the new NOAA benthic habitat maps.

FROM: DOD-Dept of Defense

1. DOD-Dept of Air Force $7,528

"Operations and Management of the Maui Supercomputing Center"

Lassner, David K Info Technology Services

Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

2. DOD-Dept of Air Force $6,240

"Operations and Management of the Maui Supercomputing Center"

Lassner, David K Info Technology Services

Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

3. DOD-Dept of Air Force $266,803

"Operations and Management of the Maui Supercomputing Center"

Lassner, David K Info Technology Services

Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.
4. DOD-Dept of Air Force $14,000
   "Operations and Management of the Maui Supercomputing Center"
   Lassner, David K Info Technology Services
   Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

5. DOD-Dept of Air Force $771
   "Operations and Management of the Maui Supercomputing Center"
   Lassner, David K Info Technology Services
   Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

6. DOD-Dept of Air Force $127,488
   "Operations and Management of the Maui Supercomputing Center"
   Lassner, David K Info Technology Services
   Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

7. DOD-Dept of Army $587,500
   "Ecosystem Management Research Projects at Various Training Areas, USAG-HI"
   Duffy, David Botany
   Cooperate with US Army environmental division on conservation biology projects to benefit protected native species on Army land.

8. DOD-Dept of Navy $40,000
   "Tropical Cyclone Genesis and Sudden Changes of Trade and Intensity in the Western Pacific"
   Wang, Bin Meteorology - SOEST
   This proposal addresses a number of important issues relating to sudden changes in the track, storm scale structure, and intensity of the tropical cyclones in the western Pacific.

FROM: DOE-Dept of Energy

1. DOE-Dept of Energy $85,000
   "Characterization of Microwave Continuum Emission from Ultra-High Energy Cosmic Ray Extensive Air Showers, A Proposed Augmentation to Pierre Auger"
   Gorham, Peter W Physics & Astronomy
   Expand investigations of the feasibility of other channels for Extensive Air Showers (EAS) observations.

2. DOE-Dept of Energy $1,645,000
   "Research in High Energy Physics: Technical Progress Report & FY08 Budget Request"
   Olsen, Stephen L Physics & Astronomy
   Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.
<table>
<thead>
<tr>
<th>FROM: National Science Foundation</th>
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<tbody>
<tr>
<td>1. National Science Foundation</td>
<td>$61,126</td>
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<tr>
<td>&quot;Integrated Studies of Eruption Processes in Basaltic and Andesitic Volcanoes&quot;</td>
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<tr>
<td>Garces, Milton</td>
<td>Haw Inst Geophys &amp; Planet</td>
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<td>The proposed work seeks to use sound waves in conjunction with other established technologies at Kilauea and Mount St. Helens volcanoes to identify and characterize different eruption processes, recognize changes in lava composition, mass flux, or magma conduit geometry, and refine or develop models of the observed eruption processes.</td>
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<tr>
<td>2. National Science Foundation</td>
<td>$511,889</td>
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<tr>
<td>&quot;A Comprehensive Survey of Endosymbiotic and Free-living Symbiodinium Diversity in the Corals and Reef Environments of Hawaii&quot;</td>
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<td>Gates, Ruth</td>
<td>Haw Inst Marine Bio-SOEST</td>
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<tr>
<td>Molecular analyses will be used to comprehensively survey the diversity and abundance of Symbiodinium spp. in corals, sediments and seawater samples collected across coral reefs. These data will detail the pool of symbionts available to corals and provide insight into the potential for recovery from episodic bleaching events for the reefs of Hawaii.</td>
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<tr>
<td>3. National Science Foundation</td>
<td>$15,000</td>
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<tr>
<td>&quot;Dissertation Improvement Grant: Defensive Strategies and Resources in the Prehistory of the Society Islands: A Case Study from Moorea&quot;</td>
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<tr>
<td>Graves, Michael W</td>
<td>Anthropology</td>
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<tr>
<td>This research will study the relations between food production practices and other resources, the location of settlements, and the development of defensive strategies during the late prehistory and early history on the island of Moorea in the Society Islands. The study will employ environmental, archaeological, documentary, and traditional historical data.</td>
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<tr>
<td>4. National Science Foundation</td>
<td>$79,790</td>
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<tr>
<td>&quot;Collaborative Research: Explosive Volcanism: Further Perspectives on Controls on Style and Dynamic of the 79AD Plinian Eruption at Vesuvius&quot;</td>
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<tr>
<td>Gurioli, Lucia</td>
<td>Geology &amp; Geophys - SOEST</td>
</tr>
<tr>
<td>We propose to understand the eruption conditions that lead to generation of PDCs during magmatic and phreatomagmatic phases of the eruption using a combination of petrologic and texture data, and constrain the history of melt ascent, degassing and microlite crystallization using a series of decompression experiments on the 79AD products.</td>
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<tr>
<td>5. National Science Foundation</td>
<td>$28,000</td>
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<tr>
<td>&quot;Collaborative Research: Eclipse Observations of Heavy Ions, Neutrals and Dust Grains in the Solar Corona&quot;</td>
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<tr>
<td>Habbal, Shadia</td>
<td>Institute for Astronomy</td>
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<tr>
<td>Observations of the total solar eclipses in 2008, 2009, and 2010 will study the coronal magnetic field and the underlying physical processes shaping the solar corona. The resulting data should provide powerful diagnostic tools for the exploring the physics of the corona and the acceleration region of the solar wind.</td>
<td></td>
</tr>
</tbody>
</table>
6. National Science Foundation $40,000
"Collaborative Research: Energy-efficient Communication with Optimized ECC Decoders: Connecting Algorithms and Implementations"
Kavcic, Aleksandar Electrical Engineering
System-level optimization of power-constrained communication links such as back-planes of internet routers or wireless sensor nodes.

7. National Science Foundation $118,347
"GOALI: Wireless Life Monitoring Transponders"
Lubecke, Victor Electrical Engineering
We propose to explore wireless transponders to enhance Doppler radar sensing, by creating multi-static radar systems and by tagging subjects for identification and additional monitoring functions.

8. National Science Foundation $129,094
"NSF Visitor and Observing Support for the NASA Infrared Telescope Facility"
Tokunaga, Alan Institute for Astronomy
Funding is requested to cover the NSF portion of observing support at the NASA Infrared Telescope Facility.

9. National Science Foundation $176,109
"Paleogenetics of Pleistocene Deep-Water Corals from the Mediterranean Sea: The Rise and Fall of Coral Populations within the Basin"
Waller, Rhian Sch Ocean,Earth Sci & Tec
This project examines processes controlling deep-water coral dispersal through time in the Mediterranean Sea, an area where many biogeographical barriers to gene flow impede the entrance and settlement of larvae over time.

FROM: Nat'l Aeronautics & Space Administration

1. Nat'l Aeronautics & Space Administration $51,039
"Geodynamic Behavior of an Active Eruptive Vent from GPS, Tilt, Gravity, and INSAR: A Unique Opportunity to Integrate Research and Education Using..."
Brooks, Benjamin Haw Inst Geophys & Planet
Install various geodetic instruments on Kilauea volcano.

2. Nat'l Aeronautics & Space Administration $45,443
"Integrating MESSENGER Data to Investigate the Origin of Mercury's Intercrater and Smooth Plains Deposits"
Gillis-Davis, Jeffrey Haw Inst Geophys & Planet
The proposed work will investigate the origin of Mercury's Smooth plains and intercrater plains using data from the Mercury Surface, Space Environment, Geochemistry, and ranging (MESSENGER) mission. The main tasks of the proposal include; create a prioritized list of geologic targets, and integrate X-ray, gamma-ray, neutron, and spectral data to map these two units.
3. Nat'l Aeronautics & Space Administration $70,000
"Properties of Jovian Trojans"
Jewitt, David C  Institute for Astronomy
This is an exploratory program focused on understanding the Jovian Trojan asteroids. These objects hold newly recognized significance in the Solar System, as products of capture in association with planet formation or soon after. Properties of the Trojans, like those of the comets, may relate to the earliest accessible times and processes.

FROM: Hawaii- Government Agencies

1. City and County of Honolulu $7,695
"Beach Hazard Website"
Fletcher, Charles H  Geology & Geophys - SOEST
Manage the progress of the beach hazard website and its continued expansion.

2. DBEDT-Energy, Resources & Technology Div $18,843
"Wind Energy Education and anemometer Loan Program"
Foreman, Cynthia  Maui CC
Incorporate wind energy education and demonstration activities into the Sustainable Construction Technology Program. Design and implement an anemometer loan program, and gather wind energy data under the program. Make data and reports available to the general public via the internet. Provide quarterly reports for State approval.

3. Hawaii-Civil Defense Division $255,000
"Hawaii County All-Hazard Assessment of Critical Facilities"
Robertson, Ian N  Civil and Environmental
This project will conduct an all-hazards Rapid Visual Screening of all critical facilities in Hawaii County, and Perform HAZUS Multi-hazard loss estimation analysis to identify high-risk facilities. Two facilities will be selected for more detailed analysis and development of retrofit schemes to reduce potential damage to these structures during future natural disasters.

4. Hawaii-Dept of Agriculture $38,856
"The Evaluation of Native Hawaiian Plants as New Cover Crop Selections in Local Organic Vegetable Production"
Leary, James  College of Tropical Ag & Human
This is a new proposal that seeks to identify novel uses of native plant species for utilization in local Hawaiian agriculture. This one-year project will characterize the agronomic attributes of four native plant species as new cover crop selections in Hawaii.

5. Hawaii-Dept of Agriculture $24,461
"Assessment of the Aquaculture Potential of Native Hawaiian Lobsters and Shrimp as Sustainable Co-culture Crops in Commercial Fish Cages"
Malecha, Spencer R  Human Nutrition, Food & Animal
This project seeks to establish design criteria for diversifying the Hawaiian open ocean sea cage industry—which currently uses only a monocultured fish crop—with "co-cultured" second crops of high market-value, but previously unexploited, native Hawaiian lobsters and shrimp.
<table>
<thead>
<tr>
<th>Project Number</th>
<th>Agency</th>
<th>Budget</th>
<th>Title</th>
<th>Principal Investigator(s)</th>
<th>Department(s)</th>
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<tbody>
<tr>
<td>6</td>
<td>Hawaii-Dept of Agriculture</td>
<td>$35,019</td>
<td>&quot;Ensuring Sustainability of Taro for Future Generations&quot;</td>
<td>Miyasaka, Susan C</td>
<td>Tropical Plant &amp; Soil Science</td>
</tr>
<tr>
<td>7</td>
<td>Hawaii-Dept of Agriculture</td>
<td>$37,179</td>
<td>&quot;A Low Cost Individual-Farm Quarantine and Small Scale Production System for Marine Shrimp and Other Products&quot;</td>
<td>Szyper, James P</td>
<td>Sea Grant - SOEST</td>
</tr>
<tr>
<td>8</td>
<td>Hawaii-Dept of Agriculture</td>
<td>$33,472</td>
<td>&quot;Developing Management Strategies for a Newly Found Plant-Parasitic Nematode, Helicotylenchus multicinctus, Damaging Banana Plantings in Hawaii&quot;</td>
<td>Wang, Koon-Hui</td>
<td>Plant &amp; Environmental Protection</td>
</tr>
<tr>
<td>9</td>
<td>Hawaii-Dept of Agriculture</td>
<td>$49,680</td>
<td>&quot;Testing the Potential Gene Flow from Genetically Engineered crops to Native Species in the Hawaiian Islands&quot;</td>
<td>Wieczorek, Anna</td>
<td>Tropical Plant &amp; Soil Science</td>
</tr>
<tr>
<td>10</td>
<td>Hawaii-Dept of Health</td>
<td>$399,621</td>
<td>&quot;Hawaii Health Workforce Assessment &amp; Plan&quot;</td>
<td>Withy, Kelley</td>
<td>Complementary &amp; Alternative</td>
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<tr>
<td>11</td>
<td>Hawaii-Dept of Land &amp; Natural Resources</td>
<td>$107,145</td>
<td>&quot;Detection and Control of Invasive Species on O'ahu&quot;</td>
<td>Duffy, David</td>
<td>Botany</td>
</tr>
</tbody>
</table>
12. Hawaii-Dept of Land & Natural Resources $4,900  
"Developing Barcode Tools for Early Detection of Marine Invasive Species"  
Toonen, Robert  
Haw Inst Marine Bio-SOEST  
Taxon selection and probe development for proof-of-concept on developing a taxonomic DNA chip for the early detection of invasive specie entering Hawaii via maritime vessel traffic.

13. Hawaii-Dept of Transportation $237,348  
"Structural Health Monitoring and Reliability Analysis of Highway Bridges Using Smart Sensor Technology"  
Ma, Tianwei  
Civil and Environmental  
To instrument selected highway bridges with sensors to monitor the bridge performance and to analysis the reliability of the bridges.

FROM: Hawaii- Associations, Foundations, Societies, etc.

1. Hawaiian Silversword Foundation $170,000  
"Conservation Work at Keauhou/Kilauea and North Kona"  
Duffy, David  
Botany  
Continue forest restoration research and management at Keauhou Ranch, Kilauea Forest, and north Kona on the island of Hawaii.

FROM: Hawaii- Health Organizations

1. Hawaii Medical Service Association $252,526  
"Fifth Statement of Work: Expansion and Evaluation of Fun 5"  
Nigg, Claudio  
Office of Public Health Studies  
To continue (for the 5th year) implementing and evaluating Fun 5 - a physical activity and nutrition program for elementary afterschool programs in Hawaii.

2. Kuakini Medical Cntr $8,381  
"Epidemiology of Aging and Dementia Autopsy Research"  
Uyehara-Lock, Jane  
Pathology- MED  
To provide pathology services and analysis of autopsy results as part of the ongoing Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

FROM: Mainland- Associations, Foundation, Soc, etc.

1. Cades Fund $33,333  
"Support of Bioscience Research and Training at the Bekesy Laboratory"  
Hartline, Daniel K  
Pacific Biosciences Research  
Molecular-genetic and electrophysiological techniques will be applied to model cells in culture. The objective will be to determine how genetic defects associated with diabetes, Alzheimer's and Parkinson's alter the functions of membrane channels regulating calcium and magnesium in critical cells causing them to be dysfunctional or die.
<table>
<thead>
<tr>
<th>FROM:</th>
<th>Business</th>
<th>Mainland- Business</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>ChemImage Corporation</td>
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<td>&quot;Stand-Off Raman Sensor (Subcontract)&quot;</td>
<td>$60,280</td>
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<td></td>
<td>Sharma, Shiv K Haw Inst Geophys &amp; Planet</td>
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<td>This proposal seeks support for collaborating with Chem Image Corporation, Pittsburgh, PA for developing Stand-Off UV Raman technique for detecting explosives.</td>
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<td>2.</td>
<td>Tibotec</td>
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<td>&quot;TMC114-TiDP31-C229: A Randomized, Open Label Trial to Compare the Efficacy, Safety and Tolerability of DRV/rtv (800/100mg) Q.D. Versus DRV/rtv (600/10)&quot;</td>
<td>$36,188</td>
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<td></td>
<td>Shikuma, Cecilia M Medicine- MED</td>
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<td></td>
<td>To test experimental HIV drug therapy on human subjects.</td>
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<tr>
<td>FROM:</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Alaska SeaLife Center</td>
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<td>&quot;Acoustic Monitoring of Beluga Population in Cook Inlet, Alaska&quot;</td>
<td>$56,034</td>
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<td>Au, Whitlow Haw Inst Marine Bio-SOEST</td>
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<td>Use EAR (ecological acoustic recorders) to monitor the population of beluga whale that inhabit Cook Inlet in Alaska.</td>
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<td>2.</td>
<td>Jet Propulsion Lab</td>
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<td>&quot;Sea Level Trends and Fluctuations: Corrections for Land Motion&quot;</td>
<td>$85,000</td>
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<td></td>
<td>Merrifield, Mark A Oceanography - SOEST</td>
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<td>Provide in situ sea level measurements corrected for vertical land motion, which are used to monitor temporal drifts in satellite observation.</td>
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<td>3.</td>
<td>Jet Propulsion Lab</td>
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<td>&quot;Sea Level Trends and Fluctuations: Corrections for Land Motion&quot;</td>
<td>$40,000</td>
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<td>Merrifield, Mark A Oceanography - SOEST</td>
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<td>Provide in situ sea level measurements corrected for vertical land motion, which are used to monitor temporal drifts in satellite observation.</td>
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<td>4.</td>
<td>Jet Propulsion Lab</td>
<td></td>
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<tr>
<td></td>
<td>&quot;Orographically Induced Ocean-Atmosphere Interaction: Satellite Observations and Numerical Modeling&quot;</td>
<td>$2,630</td>
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<td></td>
<td>Xie, Shang-Ping Meteorology - SOEST</td>
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<td>Conduct analysis of observations by the QuikSCAT and other NASA satellite observations for a better description and understanding of ocean-atmosphere interaction and climate.</td>
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<tr>
<td>5.</td>
<td>Woods Hole Oceanographic Inst</td>
<td></td>
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<tr>
<td></td>
<td>&quot;Collaborative Research: Stepping Stones Across the Atlantic: Co-Evolution and Dispersal of Deep Water Corals and their Waller, Rhian Sch Ocean,Earth Sci &amp; Tec</td>
<td>$53,394</td>
</tr>
<tr>
<td></td>
<td>Investigating the phylogenetics and co-evolution of deep-water corals and their associates.</td>
<td></td>
</tr>
</tbody>
</table>
FROM: U.S. Universities and Colleges

1. Colorado School of Mines $30,505
   "Renewable Bio-solar Hydrogen Production from Robust Oxygenic Phototrophs"
   Bidigare, Robert R       Haw Inst Marine Bio-SOEST
   To perform studies that will produce new methods for optimizing the yield of photosynthetic H2 and will identify new wild strains and engineer new hybrid strains of photosynthetic microorganisms capable of more efficient and more economical H2 production as a renewable fuel source derived from water.

2. Naval Postgraduate School $49,400
   "Quantifying the Effects of Vortical Hot Towers and Vortex Rossby Waves on Tropical Cyclone Intensification"
   Li, Tim                 Meteorology - SOEST
   Quantifying the Effects of vortical hot towers and vortex Rossby waves on tropical cyclone intensification by using an axisymmetric model and a three-dimensional model.

3. Scripps Inst of Oceanography $106,802
   "Taxonomically Diversified Global Census of Coral Reef"
   Schroeder, Thomas A      JIMAR - SOEST
   The Hawaii node plans to work with scientists and experts around the world to improve global understanding of the biological diversity of coral reef ecosystems by developing new protocols for measuring indices of biodiversity, collaborating in field sampling efforts involving understudied species, populating biodiversity databases, and conducting outreach and education.

4. Univ of Arizona $23,617
   "ASIC Development Testing for the James Webb Space Telescope"
   Hall, Donald N B         Institute for Astronomy
   To continue the performance of application specific integrated circuit development testing for space telescopes.

5. Univ of California- Los Angeles $29,882
   "Subgrant from, "CAREER: The Coordination of Leaf Hydraulics, Structure and Gas Exchange"
   Ranker, T A             Botany
   These funds are to create research assistantships for undergraduate students to work on projects in the Botany Department for the summer. The students will work on in research, education and outreach, and develop skills and perform research on the native Hawaiian flora.

6. Univ of California- San Diego $107,054
   "Dynamic Balance of the Oceanic Mixed Layer Observed by In situ Measurements and Remote Sensing"
   Maximenko, Nikolai       Oceanography - SOEST
   Simplest form of dynamic balance in the mixed layer will be validated using in situ and remote data and used to compute mean sea level and surface circulation and to enhance existing techniques of data processing and calibration.
7. Univ of California- San Diego

"Dynamic Balance of the Oceanic Mixed Layer Observed by In situ Measurements and Remote Sensing"
Maximenko, Nikolai
Oceanography - SOEST

Simplest form of dynamic balance in the mixed layer will be validated using in situ and remote data and used to compute mean sea level and surface circulation and to enhance existing techniques of data processing and calibration.

8. Univ of California- San Diego

"Pacific Islands Land-Ocean Typhoon (PILOT) Experiment: Coastal Run-up and Fringing Reefs"
Merrifield, Mark A
Oceanography - SOEST

Field observations of shoaling surface gravity waves, sea level, and nearshore currents over fringing reefs will be made to estimate the coastal-run that occurs during energetic, storm-generated wave events. The results will be compared to numerical models and used for emergency management purposes.

9. Univ of California- Santa Barbara

"Moorea Coral Reef Longterm Ecological Research: Subrecipient"
Gates, Ruth
Haw Inst Marine Bio-SOEST

Postdoctoral trainee will further his training by using PCR-amplification, cloning and sequencing of 41 coral species samples collected previously at Moorea.

10. Univ of California- Santa Barbara

"Public Domain ADMB Project"
Sibert, John R
JIMAR - SOEST

To develop the protocols for maintaining, testing and distributing AD Model Builder (ADMB) software across multiple hardware platforms, operating systems and compilers.

11. Univ of California- Santa Cruz

"Partnership for Interdisciplinary Studies of the Coastal Ocean (PISCO)"
McManus, Margaret Anne
Oceanography - SOEST

The object of this activity is to bring specialists together across disciplines; analyze subtidal, intertidal, and oceanographic findings collectively; and develop a more synthetic view of the processes that occur in coastal waters. Our ultimate aim is to move toward a capability for forecasting the effects of climate change on the ecology of coastal waters.

12. Univ of California- Santa Cruz

"The Roms Ias Data Assimilation and Prediction System: Quantifying Uncertainty"
Powell, Brian
Oceanography - SOEST

Refine ocean model data assimilation algorithms to determine how observations assist the model, determine the final error of the model, and how to combine different models for more accurate estimations of the ocean.
13. Univ of Southern California $357,000
"The Deep Subsurface Biosphere at North Pond: A Mid-Atlantic Ridge Microbial Observatory"
Cowen, James P Oceanography - SOEST
Design and fabrication of seafloor instrumentation for sampling deep basement fluids via borehole observatory at North Pond Atlantic Ocean.

14. Univ of Southern California $219,000
"North Pond Deep Subseafloor Microbial Biosphere - Phase II"
Glazer, Brian Oceanography - SOEST
Acquiring voltammetric measurements from drilling two boreholes along the North Pond Deep Subseafloor which will provide environmental context of microbiological analyses.

15. Vanderbilt University $127,476
"Urinary Phytoestrogens and Heart Disease Risk in Chinese"
Franke, Adrian A Cancer Research Center
To measure urinary isoflavonoids and creatine in human urine.

FROM: All Non-U.S.

1. UNESCO- United Nations $160,053
"The IOC Coordinated Indian Ocean Tsunami Warning System: Upgrade of Sea Level Stations in the Indian Ocean"
Merrifield, Mark A JIMAR - SOEST
To install, upgrade, and maintain multiple-use tide gauge stations in the Indian Ocean for tsunami and sea level monitoring.

2. World Health Organization- United Nations $70,554
"Software to Calculate the Level of Food Fortification with Micronutrient"
Murphy, Suzanne P Cancer Research Center
Development of written specifications for programs to be included on a multi-purpose nutrient intake assessment CD, a user's manual, and hypothetical fortification exercise.

FROM: Miscellaneous

1. Center for Tropical and Subtropical Aquaculture (CTSA) $83,800
"Kahala Parasites and Shrimp Viruses of Concern to Pacific Aquaculture"
Lewis, Teresa Haw Inst Marine Bio-SOEST
Project objectives include testing the possibility of vaccine development against a fluke parasite that affects cage cultured kahala, development of additional fluke management strategies for cage culture, and surveillance of planktonic crustaceans/copepods for shrimp viruses of economic significance to Pacific shrimp aquaculture.
NON-RESEARCH AWARDS

FROM: DHHS-Dept of Health & Human Services

1. DHHS-Dept of Health & Human Services $47,444
   "Hawaii Medical Student Aging Research Training Center"
   Masaki, Kamal H Geriatrics-MED
   Establishment of medical student aging research training center. Designed to achieve the goals of providing short term research, clinical & didactic experiences, and to expose students to career opportunities in aging related research & academic Geriatrics.

2. DHHS-Dept of Health & Human Services $225,704
   "Dual MS/MBA for Nurse Administrators"
   Williams, Paulette Nursing
   To strengthen the UHM SONDH's masters' degree program in Nursing Administration by partnering with the UHM College of Business to develop, implement, and evaluate a dual master program in nursing and business administration so that students will be able to obtain both degrees in three years.

3. NIH-Nat'l Cancer Institute (NCI) $486,108
   "Cancer Information Service"
   Vogel, Carl-Wilhelm Cancer Research Center
   The National Cancer Institute's cancer Information Service is a national resource for information and education about cancer, providing the latest and most accurate cancer information to patients and their families, the public, and health professionals. Hawaii's Partnership Program focuses on Native Hawaiians and other medically underserved populations in the US Pacific.

4. PHS-Health Resources and Services Admin (HRSA) $342,336
   "Implementation of a New Adult Health Clinical Nurse Specialist Program Using Electronic Distance Learning Technology"
   Conde, Francisco Nursing
   The implementation of an adult Clinical Nurse Specialist program via electronic distance learning methodologies, such as video teleconference and Sakai online learning system, will allow nurses who are unable to access classes in traditional on-campus setting to acquire the necessary advanced nursing knowledge and skills to become clinical nurse specialists.

5. PHS-Health Resources and Services Admin (HRSA) $294,770
   "Online PhD Program for Rural Underserved Communities"
   LeVasseur, Sandra Nursing
   The purpose of the continuation project is to complete the implementation and evaluation of the Online PhD program in nursing. Over the next three years the program will develop culturally sensitive recruitment strategies to expand access to AAPI students, upgrade to a blended IT communication model using synchronous software, and build a virtual research community.
FROM: DOC-Dept of Commerce
1. DOC-National Oceanic & Atmospheric Administration $99,998
   "Human Impacts and Hawaii's Coral Reef Health: An Environmental Science Education, Stewardship and Research Program for Teachers in Hawaii"
   Krupp, David A Haw Inst Marine Bio-SOEST
   Ten Hawaii high school teachers will receive training (lectures, lab sessions, and field exercises) in environmental and earth science using the Kane'ohe Bay watershed and coral reef ecosystem as the primary study site.

FROM: DOD-Dept of Defense
1. DOD-Naval Research Laboratory $10,000
   "Supplement to: R/V KILO MOANA Ship Operations and Technical Support Services"
   Taylor, Brian Sch Ocean,Earth Sci & Tec
   Rental of Klaus Wyrtki R/V from University of Hawaii Center for Dipole Moment Tests Associated with the Office of Naval Research 3MDS Project.

FROM: ED-Dept of Education
1. ED-Dept of Education $88,966
   "Fulbright-Hays Doctoral Dissertation Abroad"
   Garrod, Peter V Graduate Division
   Conduct research outside the United States in the field of modern foreign language and area studies (study of the aspects of a society or societies, including study of their geography, history, culture, economy, politics, international relations).

2. ED-Dept of Education $250,000
   "Windward Community College Upward Bound Program"
   Gillis-Davis, Lisa Windward CC
   Windward Upward Bound will provide opportunities for 50 low-income/first generation college potential public school students to receive academic support, career guidance, college planning, and summer residential college experience.

3. ED-Dept of Education $800
   "Upward Bound"
   Hoshino, Sandy Leeward CC

4. ED-Dept of Education $463,896
   "Leeward Community College - Regular Upward Bound:"
   Hoshino, Sandy Leeward CC
   Provide college preparatory services for high school youth. Program's purpose is to increase academic performance and college going rates in low income and first generation students.
5. **ED-Dept of Education**

"Project Manawa Kupono (Opportunity): Preparing Educators to Improve Outcomes for Students with Autism"

Wells, Jenny Special Education

This four-year project will recruit & prepare 30 M.Ed. trainees (2 cohorts of 15) to be special education teachers for students with autism. Program graduates will be eligible for special education licensure in Hawaii.

**FROM: National Science Foundation**

1. **National Science Foundation**

"A Multidisciplinary Approach to Species Boundaries in Tropical Reef Corals"

Carlon, David Zoology

Tropical coral reefs are the most diverse marine environments, yet we have a poor understanding of the ecological and evolutionary process that generate new species of hard corals. This proposal will examine a set of recently diverged incipient coral species in the Caribbean Sea using techniques of experimental ecology, molecular ecology, and paleontology.

2. **National Science Foundation**

"Computer & Electronics System Development"

Yun, David Electrical Engineering

The funds will be used for salary during the Spring 2008 and Summer 2008 semester.

**FROM: Nat'l Aeronautics & Space Administration**

1. **Nat'l Aeronautics & Space Administration**

"Search for Ultra High Energy Astrophysical Neutrinos with the ANITA Experiment - NESSF-A. Romero-Wolf"

Gorham, Peter W Physics & Astronomy

Participation as principal graduate student from UH in balloon-borne Antarctic Impulsive Transient Antenna (ANITA) investigation, which seeks to observe astrophysical neutrinos with energies above $10^{18}$eV.

2. **Nat'l Aeronautics & Space Administration**

"Ninth Planetary Volcanology Workshop: Analogs to Martian Volcanic Features in High Spatial-Resolution Data"

Rowland, Scott K Oceanography - SOEST

Organize and run a 7-day volcanology workshop on Hawaii for graduate students who are studying volcanoes on other planets (specifically Mars).

**FROM: Nat'l Endowment for the Arts**

1. **Nat'l Endowment for the Arts**

"Manoa: A Pacific Journal of International Writing"

Stewart, R Frank English

Publication of two book-sized issues of an international literary journal.
FROM: Hawaii- Government Agencies

1. Hawaii-Dept of Education $20,936
   "Teacher Training through Hands-On and Excursion-Based Activities in Aerospace Science: A Mathematics and Science Partnership between the Windward Dis"
   Ciotti, Joseph E College of Natural Sciences
   Provide series of in-service teacher training workshops in aerospace science for Windward District K-12 teachers. Workshops include: two preparatory half-day, a 7-day full-day and one follow-up full day session. On-campus resources includes WCC's Imaginarium, NASA Flight Training Aerospace Education Laboratory. Aerospace Exploration Lab and Lanihuli Observatory.

2. Hawaii-Dept of Health $49,873
   "Child Clinical and Admin Services, ASO Log No. 02-003"
   Guerrero, Anthony Psychiatry- MED
   Provide psychiatric services to the Department of Health, Child & Adolescent Mental Health Division as outlined in the scope of services in the contract.

3. Hawaii-Dept of Health $208,000
   "EMS Stipend Program"
   Kalinowksi, Edward Kapiolani CC
   Legislative funded stipend program for MICT students not receiving stipends from the City and County of Honolulu or Hawaii County Fire Service.

4. Hawaii-Dept of Health $14,000
   "Memorandum of Understanding Between The State of Hawaii, Department of Health, Disease Outbreak Control Division and the University of Hawaii"
   Qureshi, Kristine School of Nursing
   School-based influenza vaccination project.

5. Hawaii-Dept of Human Services $372,163
   "Bridge to Hope Student Support"
   Bill, Teresa Office of Student Affairs
   University of Hawaii will administer and provide campus work opportunities to eligible TANF/TAONF students through its Bridge to Hope program on all University of Hawaii campuses state-wide.

6. Hawaii-Dept of Human Services $1,923,000
   "Hawaii Excellence Through Science and Technology (HiEST) Academy"
   Rota, Michael T Office, VP Community Coll.
   Implement the HiEST Academy initiative based on the CORD curriculum that will use a contextual approach to teaching and learning.

7. Hawaii-Dept of Land & Natural Resources $62,785
   "State Park Resource Management Rangers"
   Duffy, David Botany
   Collaborate with DLNR to conserve native ecosystems within Hawaii's State Park.
8. Hawaii-Dept of Land & Natural Resources $15,222
   "Development of Web Content for Hawaii’s Local Action Strategies and Outreach Support for 2008 International Year of the Reef"
   Duffy, David Botany
   Review and summarize materials produced under the state’s Local Action Strategies for reef conservation, make information available online, and assist in promotion of the International Year of the Reef.

9. Hawaii-Dept of Land & Natural Resources $63,700
   "Miconia Control in the Koolau Range"
   Duffy, David Botany
   Conduct miconia survey and treatment in the Koolau Mountains, focusing on immature miconia plants.

10. Hawaii-Dept of Land & Natural Resources $10,000
    "The STOPP (Stem the Tide of Plant Pests) Program"
    Dunn, Christopher Lyon Arboretum
    To create a community-based weed awareness and control program.

11. Hawaii-State Foundation on Culture & the Arts $25,000
    "Presenting & Touring Outreach"
    Slaughter, Timothy R Outreach College
    Presenting and touring artistic and cultural programs throughout the state to a variety of communities.

FROM: Hawaii- Business and Other

1. Hawaii Council for the Humanities $2,500
   "The Common Book Project at Windward Community College, Fall 2008"
   Richardson, Brian Windward CC
   To support the Common Book Program at Windward Community College for the Fall 2008 semesters by organizing speakers, and providing supplies and classroom resources.

2. Pacific Resources for Education & Learning $17,056
   "Distance Learning Master's Degree Program in Evaluation (REMOTE)"
   McKimmy, Paul B. College of Education
   To provide additional support for UH personnel to assist PREL in the implementation, design and continued development of online courses used in REMOTE.

3. Papa Ola Lokahi $107,844
   "Imi Hale Research Administration 2 -- Year 4"
   Braun, Kathryn L Public Health Sciences
   Recruit and mentor individuals interested in conducting cancer-related research.
4. Pono Pacific Land Management
"Pono Pacific Leadership Training for Youth Conservation Corps"
Morden, Clifford W Botany
Support Youth Conservation Corps summer intern program.

FROM: Mainland- Associations, Foundation, Soc, etc.

1. American Academy of Neurology
"American Academy of Neurology Foundation Clinical Research Training Fellowship"
McMurtray, Aaron Medicine- MED
This is an application for an award sponsored by the American Academy of Neurology.

2. American Psychological Foundation
"Research and Training Proposal to Increase Minority Mental Health Professionals Among Asian and Pacific Islander Groups"
Uchigakuch, Patrick Social Science Rsrch Inst
To create a research and training program at early undergraduate levels of the education pipeline to increase mental health professionals from minority Asian and Pacific Islander groups.

FROM: Mainland- Business

1. Aura, Inc
"GNIRS OIWRS Repair and Testing"
Hodapp, Klaus W Institute for Astronomy
Perform services to install and test new detector and repair and test mechanisms and sensors for the Gemini Observatory instrument GNIRS (Gemini Near Infrared Spectrograph).

FROM: Mainland- Other

1. Nat'l Writing Project
"2008 Hawaii Writing Project Teacher Training Program"
Hershinow, Sheldon J Kapiolani CC
Professional development for teachers K-16.

2. RK Consulting
"Rob Knourek MALT Internship"
Hoffman, Mark Maui CC
Training in the development of database applications for the internet.

FROM: U.S. Universities and Colleges

1. Kansas State
"Joint Family Support Assistance Program Operation Military Kids"
Nakatsu, Claire M College of Tropical Ag & Human
The Hawaii 4-H Youth Development program and other partner agencies will build a statewide infrastructure to build educational programs and support networks for military youth.
2. Mississippi State University $25,996
   "University of Hawaii Participation in MOS University Consortium PET Project"
   Lassner, David K Info Technology Services
   The University of Hawaii will support the MOS University Team with the Training Coordination of the DoD PET Program. It will also respond to requests for technical training support as requested.

3. Saddleback College $25,028
   "Rapid Tech" National Center for Rapid Technologies
   Jennings, Michael Honolulu CC
   Curriculum development in 3D Rapid Prototyping in architecture.

4. Univ of Notre Dame $2,000
   "QuarkNet Supplement"
   Jones, Michael D College of Natural Sciences
   The QuarkNet project involves high school teachers using cosmic ray detectors as a way to introduce particle physics concepts in their teaching.

FROM: All Non-U.S.

1. Government of American Samoa $25,000
   "Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract from American Samoa DOH)"
   Palafox, Neal A Family and Consumer Sciences
   Implement the Pacific Regional Comprehensive Cancer Control Program in conjunction with the USAPI jurisdiction; develop a shared cancer resource for use by the jurisdictions; conduct relevant training for health providers; build capacity and policies relevant to cancer control.

2. University of the Ryukyus $10,000
   "University of the Ryukyus School of Law Study Tour"
   Kimura, Spencer School of Law
   Conduct legal training and education courses for the University of the Ryukyus graduate students and faculty.
Funds Received from UH Foundation

NON-RESEARCH AWARDS

FROM: Hawaii- Associations, Foundations, Societies, etc.

1. Univ of Hawaii Foundation $78,287
   "Matsuda Sano Chair"
   Boland, Mary G. Nursing
   Contract agreement for the transfer of funds from the Frances Matsuda Sano Chair account to provide salary support Dr. Maureen Shannon who was appointed as Matsuda Sano Chair.

2. Univ of Hawaii Foundation $5,000
   "Capturing the Momentum: P-3 Initiative - Kauai Island Project"
   Cha, Peggy Kauai CC
   Implement training for early childhood educators and elementary schools to improve early literacy skills of the children of Kauai.

3. Univ of Hawaii Foundation $2,530
   "Birth Data Analyses"
   Crowell, David Psychology

4. Univ of Hawaii Foundation $34,780
   "UH Sea Grant College Program Extension Coordinator"
   Grau, E Gordon Sea Grant - SOEST
   To establish a position for a UH Sea Grant College Program Extension Coordinator to be primarily dedicated to the Waikiki Ecosystem Restoration Project.

5. Univ of Hawaii Foundation $531,401
   "Contemporary Challenges in Microbial Oceanography"
   Karl, David M Oceanography - SOEST
   To train the next generation of scientists in the discipline of microbial oceanography.

6. Univ of Hawaii Foundation $450,000
   "Remote Monitoring of Marine Ecosystems"
   Karl, David M Oceanography - SOEST
   To purchase four additional APL-UW Seagliders to support C-MORE and Moore Foundation sponsored research.

7. Univ of Hawaii Foundation $3,000
   "Hi Chang Chai Excellence in Teaching Award"
   Liebert, Bruce E College of Engineering
   The funds are used to provide three excellence in teaching awards for faculty members in the College of Engineering.

8. Univ of Hawaii Foundation $77,875
   "Castle Award"
   Marikawa, Yusuke Anatomy, Biochemistry &
   To initiate funding agreement at UH for established UHF Castle award. Funds will be used for personnel and supplies.
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| 9. | Univ of Hawaii Foundation | $1,954 | "WKKF Learning Labs Conference Administration"  
Oyadomari-Chun, Tammi  
Planning & Policy  
To pay for salary and fringe cost for P-20 staff to provide Learning Labs Conference event coordination and administrative support work. |
| 10. | Univ of Hawaii Foundation  | $25,500  | "Capturing the Momentum/Hawaii Pacific Islands Campus Compact/Palolo Pipeline: Administrative Coordinator"  
Pascua, Atina T  
SVP - Academic Affairs  
Salary and wages to administer and monitor budgetary expenses and documentation, coordinate meetings/workshops, monitor contracts and site visits, maintain operations database; consultants and contracts including payments for Amercorps VISTA coordinator and expenses for community partners and institutions of higher education partners. |
| 11. | Univ of Hawaii Foundation | $42,483 | "East Asian Buddhism Professorship"  
Tiles, Mary E  
Philosophy  
To pay for salary and fringe of the East Asian Buddhism Professorship for the College of Arts & Humanities. |
| 12. | Univ of Hawaii Foundation | $28,916 | "Mansfield Freeman Research Assistants"  
Tiles, Mary E  
Philosophy  
To pay for the salary & fringe for 2 graduate research assistants for the Philosophy Department. |
| 13. | Univ of Hawaii Foundation | $11,596 | "East West Medicine"  
Yun, David  
Electrical Engineering  
The funds will be used for salary during the Spring 2008 and Summer 2008 semester. |
EXTRAMURAL RESEARCH AWARDS
FOR THE MONTH OF MAY 2008
DISTRIBUTION BY SPONSORS

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EXTRAMURAL NON-RESEARCH AWARDS
FOR THE MONTH OF MAY 2008
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## EXTRAMURAL RESEARCH AWARDS

**YEAR TO DATE: 7/01/2007 - 5/31/2008**

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<td><strong>Total</strong></td>
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<td><strong>$186,187,974</strong></td>
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## EXTRAMURAL NON-RESEARCH AWARDS

**YEAR TO DATE:** 7/01/2007 - 5/31/2008

### DISTRIBUTION BY SPONSORS

<table>
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<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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