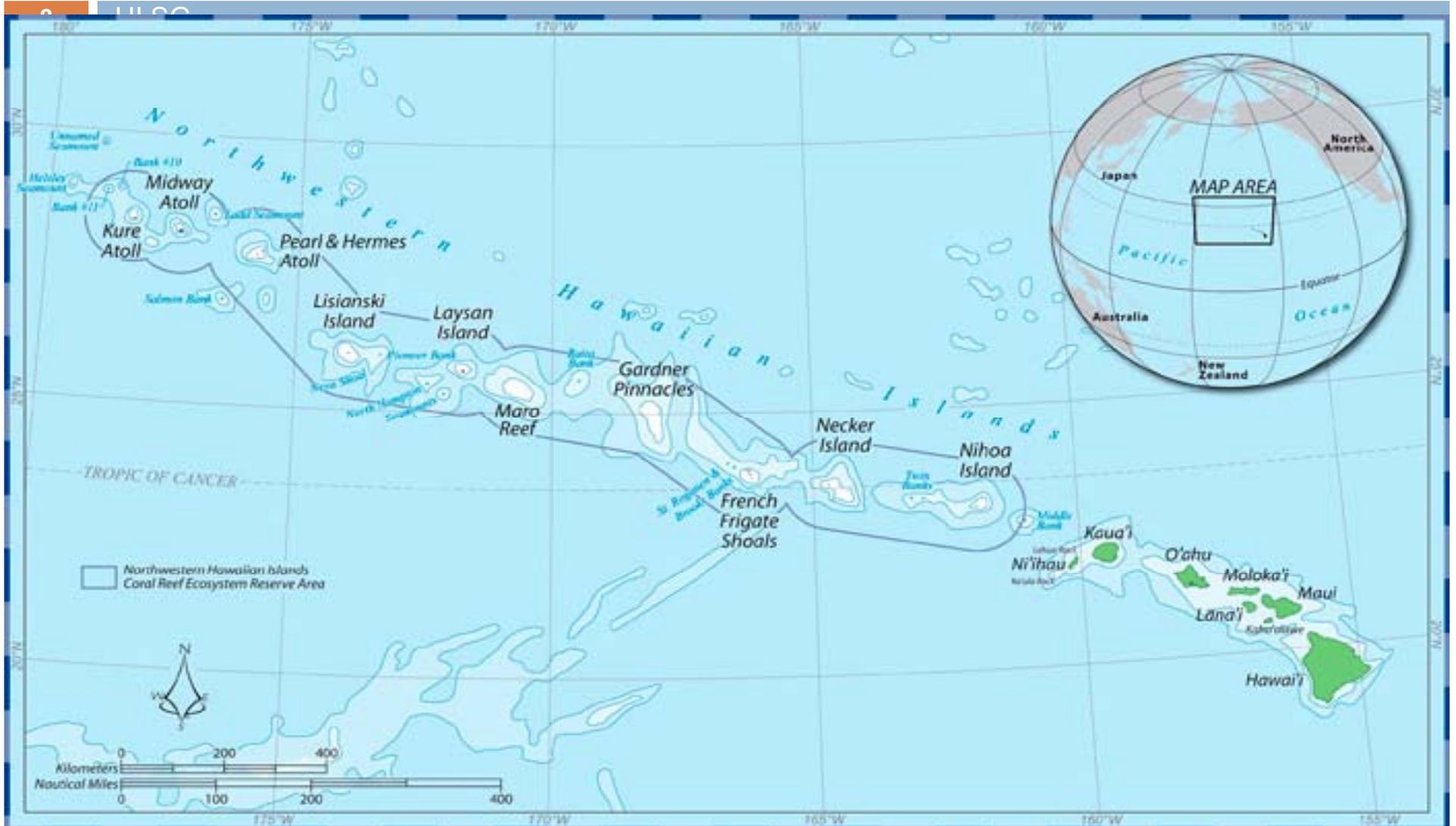


HAWAII SEA GRANT PROGRAM 2010 NSGO REVIEW

Jim Murray

Hawaii Sea Grant



Program Management

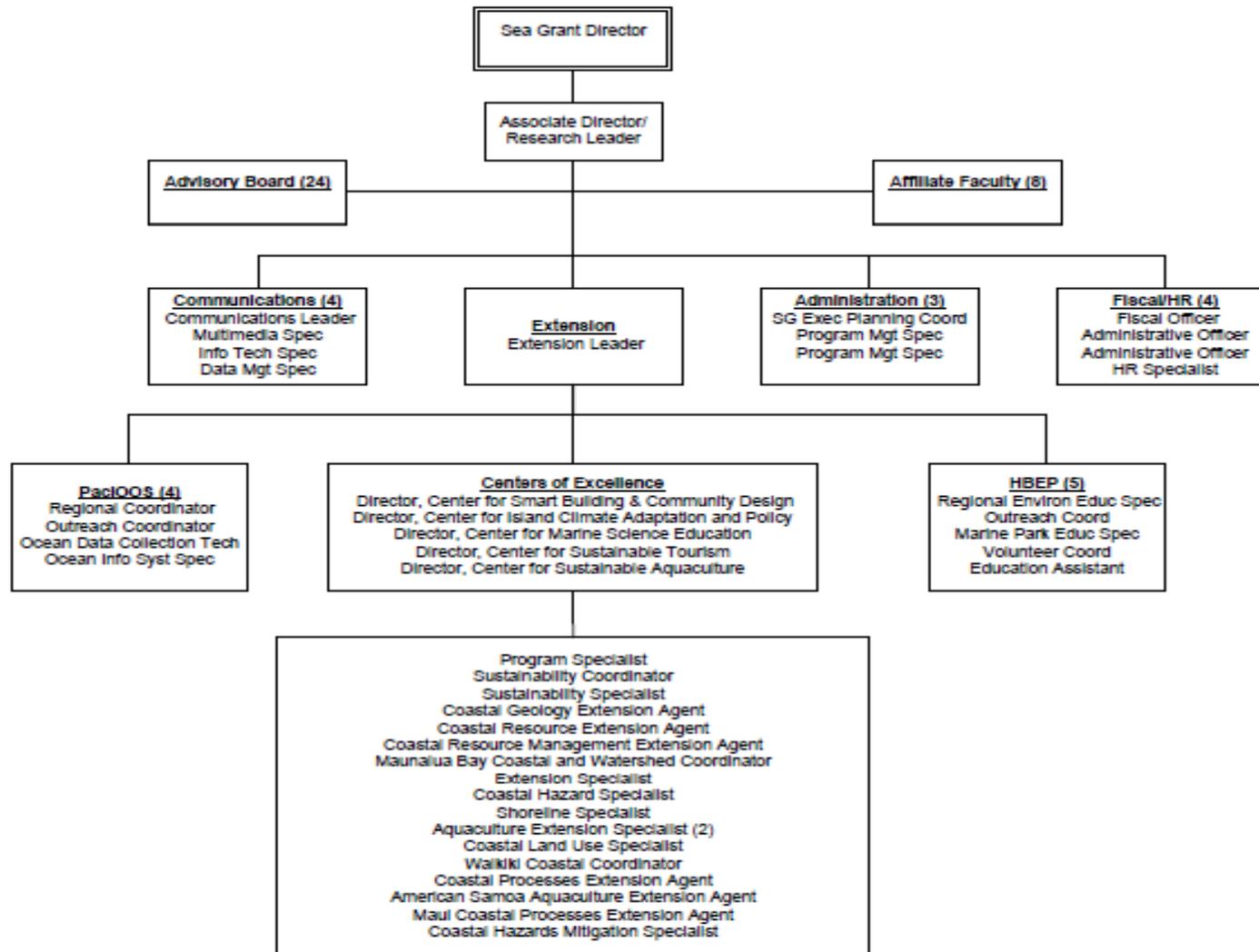
3

HISG

□ Management Team

- Director, Dr. E. Gordon Grau (1.0 FTE)
- Associate Director, Dr. Darren Lerner (1.0 FTE)
- Extension Leader, Dr. Darren Okimoto (1.0 FTE)
- Communicator, Cindy Knapman (1.0 FTE)
- Fiscal Officer, Bruce Hamakawa (1.0 FTE)
- Program Management Specialist, Ruth Goldstein (1.0 FTE)

Program Organizational Chart



Extension Program

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- Extension Leader- Darren Okimoto and staff of 18 extension faculty and 9 staff positions on Oahu, Maui, Big Island, Kauai and American Samoa
 - Most positions jointly funded – 24% NOAA, 76% partners
 - Through Pacific Aquaculture and Coastal Resources Center coordinates its outreach efforts with the Republic of the Marshall Islands (RMI), Federated States of Micronesia (FSM) and Republic of Belau (Palau)
 - Detailed work plan aligned with strategic plan
 - Excellent integration with program management/research

Program Management – Advisory Board

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HI SG

□ 24 Advisory Board members from:

- Oceanic Institute
 - Smart Growth America
 - Group 70 International
 - Friends of Hanauma Bay
 - Kāneʻohe Ranch Co., Ltd.
 - City and County of Honolulu
 - Ferraro Choi and Associates, Ltd.
 - Endowment Group
 - Pacific Aquaculture and Coastal Resources Group, University of Hawaiʻi at Hilo
 - Mayor, County of Hawaiʻi
 - The Medical Foundation for the Study of the Environment
 - Honolulu Medical Group
 - Hawaiʻi State House of Representatives
 - Blue Planet Hawaii
 - Pacific Islands Fisheries Science Center, NOAA National Marine Fisheries Service
 - Hawaiʻi Natural Energy Institute, University of Hawaiʻi
 - Helping Hands Hawaii
 - National Sea Grant College Program, NOAA (retired)
 - State Department of Land and Natural Resources (DLNR)
 - Malama Maunalua
 - Customer Solutions, Hawaiian Electric Company
 - Hawaii Aquaculture Association
- Annual Meetings (Members engaged thorough the year)

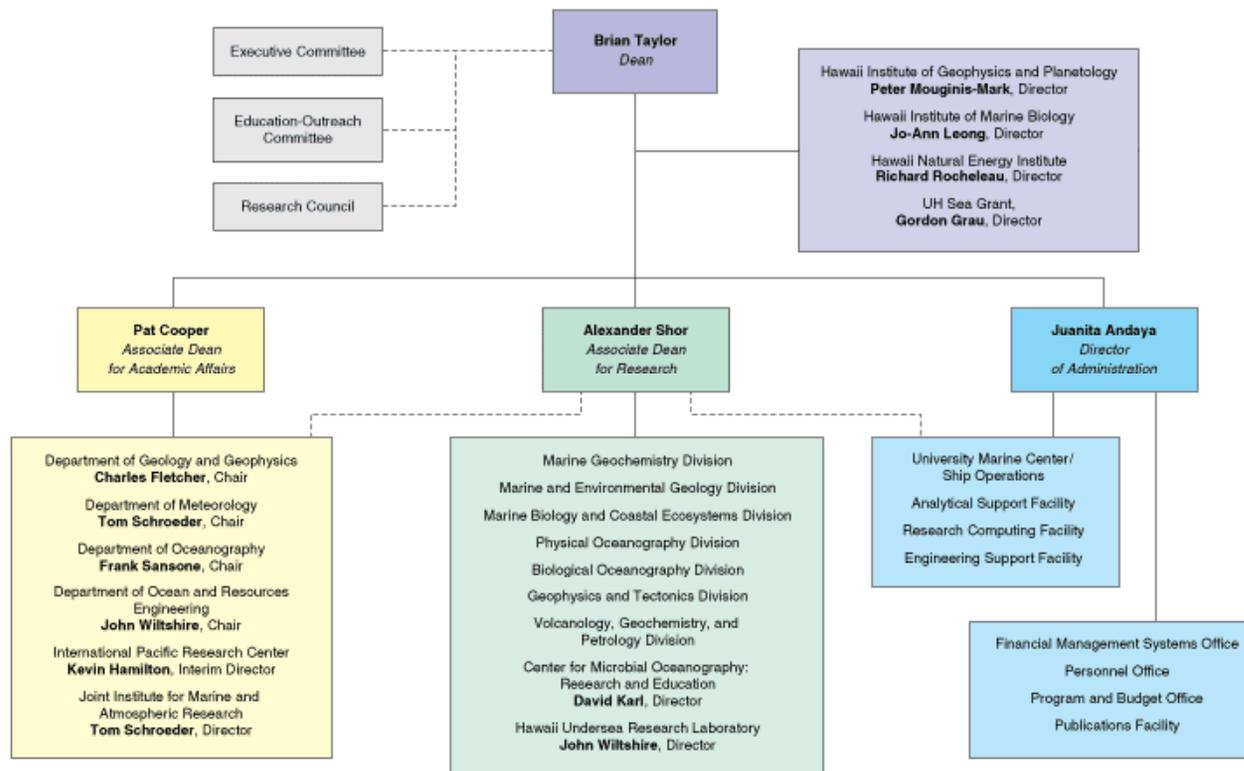
Institutional Setting

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- The University of Hawaii, School of Ocean and Earth Science and Technology, supporting UH Manoa, UH Hilo, and 7 Community Colleges (and serving the independent College of the Marshall Islands and American Samoa Community College)

(Updated Tuesday 20 October 2009)



Hawaii Sea Grant Program Plan – Estimated 4-yr Budget Allocation by Focus Area

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National Focus Area	Focus Area from Program Strategic Plan	Estimated Level of Effort of Federal, Match and Leveraged (%)	Estimated Level of Effort of Federal and Match (\$)	Estimated Level of Effort of Leveraged (\$)
Safe & Sustainable Seafood Supply		5%	\$589,500	\$413,260
Sustainable Coastal Development		25%	\$2,947,500	\$2,066,340
Healthy Coastal Ecosystems		25%	\$2,947,500	\$2,479,608
Hazard Resiliency in Coastal Communities		30%	\$3,537,000	\$2,066,340
Other (Sustainable Coastal Tourism)		15%	\$1,768,500	\$1,239,804
Total		100%	\$11,790,000	\$8,265,360

Performance Measure/Outcome Highlights

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- HCE - # of ecosystems whose function and/or productivity are improved (restored to a greater level) as a result of SG activities (6).
- SCD – # of coastal communities engaged in activities or making informed development decisions that address the sustainability of economic or environmental resources (6).
- SCT - # of tourism organizations state-wide working directly with UHSG to address sustainability issues through research and outreach (6).
- HRCC - # of communities who adopt/implement hazard resiliency practices to prepare for and respond to/minimize coastal hazardous events (25).

Major Partners

- There are hundreds, many NOAA programs
 - City of Honolulu (Mayor's office)
 - William S. Richardson School of Law
 - University of HI School of Architecture, School of Social Science and Hawaiian Knowledge
 - Harold K. L. Castle Foundation
 - Kyo-ya
 - Hawaii Department of Land and Natural Resources
 - State and County government (funding)
 - EPA Smart Growth Office
 - Labs 21

Network Activities - 2009

- Dr. E. Gordon Grau, President, Sea Grant Association
- Dr. Darren Lerner and Dr. Mary Donohue, support of SGA activities and Advisory Board Research Committee
- Mr. Dennis Hwang, HRCC Focus Team
- Mr. John Carey, SGA support (hosted fall SGA meeting, SCD Focus Team)
- Dr. Darren Okimoto, Lead, Insular Pacific Regional Research and Information Planning, Assembly Executive Committee
- Ms. Cindy Knapman, Pacific Representative for the Communications Network

2010 RFP Process

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- **Five Focus Areas (from the national and regional strategic planning process):**
 - Healthy coastal ecosystems
 - Sustainable coastal development
 - Safe and sustainable seafood supply
 - Hazard resilience in coastal communities
 - *Sustainable coastal tourism*
- **2009-2012 research component began with RFPP announced early Dec. 2007.**
- **42 preliminary proposals, 28 full proposals, and 14 final project awards.**
- **Review Process:**
 - Pre-proposal screening: Science panel composed of University of Hawaii and local ocean and coastal agency scientists.
 - UHSG Advisory Council also provided advice on the relevance of the proposed work.
 - Full proposal review: 3-5 ad-hoc reviews, External Science Panel was formed based on content of full proposals for final review and funding selection (this was the fourth UHSG proposal cycle to employ such a panel and conforms to the methods of a NSF review panel)
 - Program officer monitors the proposal review process and attended all meetings associated with full proposal selection and officially endorsed the process.

2008/2009 Program Metrics – Awards and Honors

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- Sara Peck, Hawaii Sea Grant Coastal Resource Extension Agent: William Q. Wick Award for Visionary Career Leadership in Programs by the Assembly of Sea Grant Extension Leaders; Hawaii State Board of Land and Natural Resources Living Reef Award in the category of Educational Institutions; United States Coral Reef Task Force award for outstanding efforts in developing and sustaining high quality education and outreach programs.
- Dr. Stephen Meder, director of the Hawaii Sea Grant Center for Smart Building and Community Design: Hung Wo and Elizabeth Lau Ching Foundation Award for Faculty Service to the Community. Specifically recognized for linking economic and environmental sustainability with an elevated quality of life in our community, and also for his work with underserved communities in Waianae and Kalihi.
- Hawaii Sea Grant Communications: Ka Palapala Po'okela Award of Excellence in Natural Science book award for Reef and Shore Fishes of the Hawaiian Islands by Dr. John E. Randall; Ka Palapala Po'okela Honorable Mention book award for Hawaiian Reef Plants by Dr. John M. Huisman, Dr. Isabella A. Abbott and Dr. Celia M. Smith.
- Dolan Eversole, Hawaii Sea Grant Coastal Geologist: American Shore and Beach Preservation Association (ASBPA) Kuhio Beach restoration project winner of the 2008 Best Restored Beach Award.
- Christina Bradley, Hawaii Sea Grant-supported graduate student: Outstanding Student Talk Award at the 2008 Ocean Sciences Meeting.

2008/2009 Highlights of Metrics

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- Center of Excellence Model: Smart Building and Community Design, Sustainable Coastal Tourism, Island Climate Adaptation and Policy, Center for Marine Science Education, Sustainable Aquaculture
- 15 new students, 32 continuing students, 7 degrees awarded
- 70 Publications (19 peer reviewed), 110 media placements
- 13,967 volunteer hours
- 800,000 visitors annually engaged by Sea Grant Hanauma Bay Education Program [at the Hanauma Bay Nature Preserve]
- 185 citizens have participated in ReefWatcher training

2008/2009 Program Impacts

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HI SG

- HCE –Nearshore ecosystem restoration project in Waikiki
- HCE –Research to alter management strategies for invasive mangroves
- HRCC – UHSG funded model significantly improves ability to forecast effects of earthquake generated tsunamis
- SSS –Research informs aquarium fish collection
- UH has saved \$3M in energy costs over past 2 years based on SG energy audits

2008/2009 Research Impacts

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- Forecast Effects of Earthquake Generated Tsunamis
Model used by NOAA and the governments of China, Indonesia and Chile as primary tool for their tsunami forecasting
- Deep water air conditioning – Based on research by Arlo Fast, a seawater air conditioning system was developed that is currently used Sweden, Toronto, Cornell U., Bali.
 - Waikiki and downtown Honolulu have the system currently under study
 - Estimated to have saved in the hundreds of millions in energy costs

Best Management Practices

- Sea Grant supported graduate students (Sea Grant Trainees) are trained in extension as well as research
- Centers of Excellence model
- Hanauma Bay Education Program
- University inreach – energy audits and planning, smart university growth
 - ▣ Engagement of non-traditional University partners, e. g. School of Architecture (joint GIS Lab)