Exhibition and Reception
Wednesday, November 3, 2004
6:00 pm - 8:30 pm
Hawai'i Convention Center, Palolo Room 306
FREE Admission, Light Refreshments, FREE Parking
www.hawaiianatolls.org/sym3

...30 years of research and exploration
<table>
<thead>
<tr>
<th>Day One</th>
<th>Tuesday, November 2, 2004</th>
<th>7 a.m. – 7:30 p.m.</th>
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<tr>
<td>Registration (throughout Symposium)</td>
<td>7 a.m. – 4:30 p.m. Room #304</td>
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<tr>
<td>Exhibits and Posters</td>
<td>Room #306</td>
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<tr>
<td>Continental Breakfast</td>
<td>7 a.m. – 8:30 a.m. Room #306</td>
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<tr>
<td>Welcome Remarks, Gerard DiNardo Hawaiian Blessing</td>
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<tr>
<td>Keynote Address, Richard Shomura</td>
<td>8:30 a.m.</td>
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<tr>
<td>Plenary Session I (moderated by Gerard DiNardo)</td>
<td>9 a.m. – 11:30 a.m. Room #310</td>
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<tr>
<td>An historical overview of the Northwestern Hawaiian Islands' ecosystem with the perspective of science &amp; research, resource utilization, and conservation &amp; management.</td>
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<tr>
<td>The History of Marine Research in the Hawaiian Archipelago; Lessons From the Past and Hopes for the Future, Richard Grigg</td>
<td>9 a.m.</td>
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<tr>
<td>Morning Break and Coffee</td>
<td>9:45 a.m. – 10 a.m.</td>
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<tr>
<td>Contemporary Research in the Northwestern Hawaiian Islands: Where We Are Now, Where We Are Heading, Frank Parrish and Gerard DiNardo</td>
<td>10 a.m.</td>
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<tr>
<td>Lunch on Own</td>
<td>11:30 a.m. – 1 p.m.</td>
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<tr>
<td>Plenary Session I (cont.)</td>
<td>1 p.m. – 2:45 p.m. Room #310</td>
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<tr>
<td>History of Management in the NWHI, Robert Shallenberger</td>
<td>1 p.m.</td>
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<tr>
<td>Resource Utilization in the NWHI: A Look Into the Past, Present and Future, Jarad Makaau</td>
<td>1:45 p.m.</td>
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<tr>
<td>Afternoon Break and Refreshments</td>
<td>2:30 p.m. – 2:45 p.m.</td>
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<tr>
<td>Concurrent Session 1</td>
<td>2:45 p.m. – 4:30 p.m. Room #310</td>
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<tr>
<td>A. Environmental Trends (moderated by Frank Parrish)</td>
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<tr>
<td>• Diurnal Trends in the Mid-Water Biomass Community of the NWHI Observed Acoustically, Marc O. Lammers, Russell E Brainard, Whitlow W.L. Au</td>
<td>2:45 p.m.</td>
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<tr>
<td>• Interannual Variability in Larval Transport and Oceanography in the NWHI Using Satellite Remotely Sensed Data and Computer</td>
<td>3:10 p.m.</td>
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Simulation, Donald R. Kobayashi and Jeffrey J. Polovina

- Ten years of Shipboard ADCP Measurements Along the NWHI, John Firing, Russell Brannard, Eric Firing 3:35 p.m.

- Spatial and temporal variability of key oceanographic processes influencing coral reef ecosystems of the NWHI, Russell Brannard, Ronald Hoke, Russell A. Moffitt, et al. 4 p.m.

B. Seabirds (moderated by Beth Flint) Room #308

- Distribution and Abundance of Seabirds in Waters of the Hawaiian Islands Archipelago, Lisa Ballance, Robert L. Pitman, Jessica Redfern 2:45 p.m.

- Populations and Conservation Status of Seabirds in the NWHI, Mauna Naughton and Elizabeth Flint 3:10 p.m.

- Demographic Parameter Estimates of North Pacific Albatross and Implications for Future Data Collection, William Kendall, Paul F. Doherty, Jr., Scott Sillett, et al. 3:35 p.m.

- Demography and Reproductive Ecology of Great Frigate Birds, Donald Dearborn and Angela Anders 4 p.m.

You are cordially invited to the
Welcome Reception and Poster Session
Immediately following today’s program
4:30 p.m. ’til 7:30 p.m.
Palolo Room #306
Hosted Bar and Heavy Appetizers
Meet the Poster Presenters
& enjoy the sounds of slack-key guitarist,
Sean Naauao

Televised National Election Results in Room #309
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<th>Session Title</th>
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<td><strong>Day Two</strong></td>
<td><strong>Wednesday, November 3, 2004</strong></td>
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<td><strong>Registration</strong></td>
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<td>Continental Breakfast</td>
<td>7 a.m. – 8:30 a.m. Room #306</td>
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<td>Concurrent Session 2</td>
<td>8:30 a.m. – 10:10 a.m.</td>
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<tr>
<td><strong>A. Fisheries – Lobster</strong> (moderated by Don Kobayashi)</td>
<td>Room #310</td>
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<tr>
<td>• Recent Life–History Research on Lobsters in the NWHI, Edward DeMartini</td>
<td>8:30 a.m.</td>
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<tr>
<td>• Preliminary Estimates of Hawaiian Spiny Lobster (Panulirus marginatus) Growth and Movements at Necker Island, NWHI, Joseph O’Malley and Gerard DiNardo</td>
<td>8:55 a.m.</td>
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<tr>
<td>• Spatial and Temporal Patterns in Lobster Trap Bycatch, Jami Johnson, Gerard DiNardo, Robert Maffitt, et al.</td>
<td>9:20 a.m.</td>
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<tr>
<td>• Causes for the Switch in Lobster Species Dominance in the NWHI, Gerard DiNardo and Don Kobayashi</td>
<td>9:45 a.m.</td>
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<tr>
<td><strong>B. Sea Turtles, and Other Endangered or Threatened Flora and Fauna</strong> (moderated by Jason Baker)</td>
<td>Room #308</td>
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<tr>
<td>• Recovery Trend Over 31 Years at the Hawaiian Green Turtle Rookery of French Frigate Shoals, George Balazs and Mlian Chaloupka</td>
<td>8:30 a.m.</td>
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<tr>
<td>• Laysan Finch Population Viability Analysis: Data Needs and Management Options, Andrew McClung</td>
<td>8:55 a.m.</td>
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<tr>
<td>• Population Estimates and Breeding Success of the Laysan Island’s Endangered Duck, Michelle H. Reynolds and Elizabeth Flint</td>
<td>9:20 a.m.</td>
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<tr>
<td><strong>Morning Break and Coffee</strong></td>
<td>10:10 a.m. – 10:25 a.m.</td>
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<td>Concurrent Session 3</td>
<td>10:25 a.m. – 12:05 p.m.</td>
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<tr>
<td><strong>A. Fisheries – Fin Fish</strong> (moderated by Walter Ikehara)</td>
<td>Room #310</td>
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<tr>
<td>• Ecological Effects of Fishing on Coral Reef Fish Assemblages in the Hawaiian Archipelago, Alan Friedlander and Edward E. De Martini</td>
<td>10:25 a.m.</td>
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<tr>
<td>• An Assessment of the Condition of Deepwater Snappers and Groupers in the NWHI Under Various Exploitation Rates, Bert Kikima, Walter A. Machado, David Kaltoff</td>
<td>10:50 a.m.</td>
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</tbody>
</table>
• The Impacts of Bottom-fishing on Raita and West St. Rogatien Banks, Christopher Kelley and Robert Moffitt 11:15 a.m.

• Ecological Effects from Fishing: Lessons from the North Timothy Ragen 11:40 a.m.

B. Cetaceans/Hawaiian Monk Seals (moderated by Irene Kinan) Room #308

• Population Structure and Connectivity of Spinner Dolphins in the NWHI, Leszek Karczmarski, Susan H. Rickards, Bernal Würsig, Cynthia Vanderlip, et al. 10:25 a.m.


• Increasing Taxonomic Resolution in Dietary Analysis of the Hawaiian Monk Seal, Ken Longenecker, Robert A. Dollar, Maire Cahoon 11:15 a.m.

Lunch On Own 12:05 p.m. – 1:30 p.m.

Concurrent Session 4 1:30 p.m. – 3:10 p.m.

A. Oceanography/Mapping (moderated by Rick Gregg) Room #310


• Mapping NWHI with High-Resolution Satellite Imagery: Techniques and Results, Kris Holdener and Richard Stumpf 1:55 p.m.

• Bathymetric Atlas and Web Site for NWHI, Joyce Miller, Ronald Hoeke, Scott Ferguson, et al. 2:20 p.m.

• Mega to Macro-Scale Descriptions of Bottom-fish Habitats on Raita Bank, West St. Rogatien Bank, Brooks Bank and Bank 66, Christopher Kelley, Robert Moffitt, Walter Ikehara, et al. 2:45 p.m.

B. Hawaiian Monk Seals (moderated by Gerard DiMardo) Room #308


• Foraging Biogeography of the Hawaiian Monk Seal in the NWHI, Brent Stewart, George A. Antonelis, Jason D. Baker, et al. 1:55 p.m.

• Movement of Monk Seals Relative to Ecological Depth Zones in the Lower NWHI, Frank Parrish and Kyler Abernathy 2:20 p.m.

• Assessment of Immature Hawaiian Monk Seals Foraging Behavior, Behavior, Habitat Use and Prey Type Using Crittercam, Charles Littnan, Frank A. Parrish, Jason D. Baker, et al. 2:45 p.m.
### Afternoon Break and Refreshments
3:10 p.m. – 3:25 p.m.

### Concurrent Session 5
3:25 p.m. – 5:05 p.m.

#### A. Socio-Economics /Ecosystem Science and Research Needs
(moderned by Jarad Makaiau)

- Economic Research on the NWHI – An Historical Perspective, *Samuel G. Pooley and Min Ling Pan*
  
  
- Northwestern Hawaiian Islands Spatial Bibliographic GIS: A Science Planning Tool, *Christine Taylor and David Moe Nelson*
  

#### B. Living Marine Resources – Invertebrate
(moderned by Robert Humphries)

- Distribution and Abundance of the Pearl Oyster, *Pinctada margaritifera, Elizabeth Keenan, Russell E. Brainard, Larry B. Busch*
  
- Deepwater Marine Plants from the NWHI: New Perspectives on Biogeography, *Karla McDermid and Isabella A. Abbott*
  
- Quantitative Algal Rapid Ecological Assessments in the NWHI, *Peter Vroom and Kimberly Page*

### Public Exhibition and Reception
6 p.m. – 8:30 p.m.
Room #306
Room #310

### Public Exhibition and Reception
5:45 p.m.

**Welcome:** Gerard DiNardo, NOAA Fisheries, PIFSC

**Video Montage and Presentations**

- "In the Wake of Canoes" (video by NOAA NOS Coral Reef Ecosystem Reserve)
- Bird Capture and Banding, *Andrew McClung, University of Hawaii*
- Coral Reef Tow Board Sampling, *Joe Laughlin, NOAA Fisheries, PIFSC*
- NWHI Lobster Tagging Program, *Gerard DiNardo, NOAA Fisheries, PIFSC*
- Bottom-Fish Research, *Chris Kelley, Hawaii Undersea Research Laboratory*
- Monk Seal Foraging, *Frank Parrish, NOAA Fisheries, PIFSC*

**Reception and Exhibit Viewing**

7:10 p.m.

**Grand Prize Giveaway** (in the Exhibit Room)
8 p.m.

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8:30 p.m.
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<td>Continental Breakfast</td>
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<td>8:30 a.m. – 10:10 a.m.</td>
<td>Concurrent Session 6</td>
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<tr>
<td>9:20 a.m.</td>
<td>Patterns and Processes in Shallow-Water Reef Fishes of the NWHI, Edward DeMartini</td>
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<tr>
<td>9:45 a.m.</td>
<td>Monk Seals, Precious Corals and Subphotic Fish Assemblages, Frank Parrish</td>
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<td>B. Living Marine Resources (moderated by Rusty Brainard)</td>
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<td>Room #308</td>
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<td>8:30 a.m.</td>
<td>Preliminary Results from NWHI Seamount Surveys of Deep-Sea Fauna in Relation to Geological Setting, John Smith, Amy Baco-Taylor, Christopher Kelley, et al.</td>
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<tr>
<td>8:55 a.m.</td>
<td>Ecological Characteristics of Coral Patch Reefs at Midway Atoll, NWHI, Robert E. Schroeder and James D. Parrish</td>
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<td>10:10 a.m. – 10:35 a.m.</td>
<td>Morning Break and Coffee</td>
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<td>10:35 a.m. – noon</td>
<td>Plenary Session II</td>
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<td>Future research needs and priorities in the Hawaiian Archipelago particularly with regard to ecosystem science and management. Toward Ecosystem-Based Management: What Can the NWHI Contribute?</td>
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<td>David Fluharty</td>
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<td>10:35 a.m.</td>
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Conducting Multidisciplinary Research in a Multi-agency Management Setting: A Possible Framework for Success, Gerard DiNardo

Hosted, Prepared Lunches To-Go noon – 1 p.m.
Room #306

Expert Panel Discussion and Recommendations, Sam Pooley, Facilitator 1 p.m. – 5 p.m.

Panelists:
Dr. Shelin Conant, Dept. of Zoology, University of Hawai’i, Manoa
Dr. Bruce Wilcox, Division of Ecology and Health, John A. Burns School of Medicine
Dr. James Parrish, Hawai’i Cooperative Fishery Research Unit
Dr. Jeffrey Polovina, NMFS Pacific Islands Fisheries Science Center
Dr. David Fluharty, School of Marine Affairs, University of Washington

Discussion:

1. Comments and/or questions regarding Dr. Fluharty’s talk on ecosystem science and management.

2. How well does the research that has been conducted in the NWHI fit into the general elements of ecosystem science and management?

3. Where are the gaps and opportunities for insightful research?

4. What are the merits of closing and protecting the NWHI versus conducting research specifically to advance ecosystem science including fishery science?

5. Comments on the proposed research framework and the value of having a future workshop to address actual components and implementation.

Afternoon Break and Refreshments 3 p.m. – 3:15 p.m.

Panel and Open-Floor Discussion (cont.)

Wrap up & Closing Remarks, Gerard DiNardo

Conclusion of Symposium 5 p.m.
Submitted Posters

Coral recruitment and encapsulation on derelict fishing gear in the Northwestern Hawaiian Islands. Jacob M. Asher and Molly Timmers

Acanthaster planci distribution and predation at Pearl and Hermes Atoll. Elizabeth E. Keenan, Russell E. Brainard, and Larry V. Basch

Surface velocity and profiling drifters track potential larval pathways in Northwestern Hawaiian Islands. June Firing, Ronald Hoeke, and Russell Brainard

Coral recruits to settlement plates at six Northwestern Hawaiian Islands. Matt Dunlap and Jean Kenyon

Ecosystem science to support ecosystem-based management of the Northwestern Hawaiian Islands. Russell Brainard, Greta Aeby, Joseph Chojnacki, Edward DeMartini, Matthew Dunlap, Scott Ferguson, June Firing, Alan Friedlander, Scott Godwin, Jamison Gove, Ronald Hoeke, Stephani Holzwarth, Randall Kosaki, Elizabeth Keenan, Jean Kenyon, Marc Lammers, James Maragos, Joyce Miller, Kim Page, John Rooney, Molly Timmers, Peter Vroom, Casey Wilkinson, Kevin Wong, and Brian Zgliczynski

Variability and change: Long-term oceanographic monitoring in the Northwestern Hawaiian Islands. Russell Brainard, Ronald Hoeke, June Firing, Kevin B. Wong, and Dave Foley

Geographical distributions of *Acanthaster planci* from towed-diver surveys in the Northwestern Hawaiian Islands. Molly A. Timmers, Stephani R. Holzwarth, and Russell E. Brainard

Distribution, dispersal and genetic population structure of vermetids (Vermetidae: Gastropoda) in Hawaii. Anuschka Faucci and Michael G. Hadfield

Health status of the reefs of the Northwestern Hawaiian Islands. Greta S. Aeby

Remote video cameras to observe marine turtles and their habitats: A powerful new research, monitoring, and educational tool for the Northwestern Hawaiian Islands. George H. Balazs, Marc Rice, and Daniel Zatz

Construction of benthic substrate prediction maps using topology, rugosity, and acoustic signatures. Joe Chojnacki, John Rooney, Joyce Miller, and Russell E. Brainard

A classification scheme for benthic habitat mapping in the Northwestern Hawaiian Islands. John Rooney, Joyce Miller, Frank Parrish, and Michael Parke
Geologic features on the Northwestern Hawaiian Island chain revealed by swath mapping. John R. Smith, Benjamin Evans, Joyce Miller, and Jeremy Weirich

A quantitative assessment of the benthic marine macroalgae and coral of Neva Shoal near Lisianski Island. K. A. Peyton and J. Kanekoa Kukea-Shultz

Responses to cetacean strandings and a new method for testing whale hearing. Paul Nachtigall, Robert Braun, and Marlee Breese

Inferences of lagoonal and near-shore circulation at Pearl and Hermes and Kure Atolls. Ronald Hoeke, Jamie Gove, Kyle Hogrefe, Russell Brainard, and June Firing

Monitoring corals and macro-invertebrates at permanent sites in the Northwestern Hawaiian Islands. James Maragós and Allison Veit
Symposium Participants

Abbott, Isabella  
Botany Department  
University of Hawaii  
3190 Maile Way  
Honolulu, HI 96822 USA  
Phone: 808-956-8073  
E-mail: iabott@hawaii.edu

Abubakar Kuta, Mohammed  
W.S.P.A  
Welfare Assoc., P. O. Box KD 391 Kanda  
Accra, AC 23321 Ghana  
Phone: 233-21-253135  
E-mail: VirginKuta@yahoo.com

Alexander, Charles  
NOAA National Marine Sanctuary Program  
1305 East West Highway  
Silver Spring, MD 20910 USA  
Phone: 301-713-4306  
E-mail: charles.alexander@noaa.gov

Anders, Angela  
Pennsylvania State University  
321 Mueller Lab  
University Park, PA 16802 USA  
Phone: 814-863-8162  
Fax: 814-865-9131  
E-mail: ada128@psu.edu

Antonelis, Troy  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl St., Room 330  
Honolulu, HI 96813 USA  
Phone: 808-397-2664  
Fax: 808-587-0115  
E-mail: troy.antonelis@noaa.gov

Abernathy, Kyler  
National Geographic Television  
Washington, D.C., USA  
Phone: 202-857-5802  
E-mail: kabernat@ngs.org

Aebly, Greta  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Fax: 808-587-0115

Ali Cofi, Mohammed  
W.S.P.A  
Welfare Assoc., P. O. Box KD 391 Kanda  
Accra, AC 23321 Ghana  
Phone: 233-21-253135

Andrews, Kim  
Zoology Department  
University of Hawaii  
Honolulu, HI 96822 USA  
Phone: 808-265-0430  
E-mail: andrewsk@hawaii.edu

Antonelis, George  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5710  
Fax: 808-983-2902  
E-mail: Bud.Antonelis@noaa.gov
Antolini, Denise  
Environmental Law Program  
School of Law  
University of Hawaii  
2515 Dole St.  
Honolulu, HI 96712 USA  
Phone: 808-956-6238  
Fax: 808-956-5569  
E-mail: antolini@hawaii.edu

Baco-Taylor, Amy  
Biology Department  
Woods Hole Oceanographic Institute  
MS#33 214 Redfield  
Woods Hole, MA 02543 USA  
Phone: 508-289-2331  
E-mail: abaco@whoi.edu

Balazs, George  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-286-2899  
Fax: 808-983-2902  
E-mail: gbalazs@honlab.nmfs.hawaii.edu

Boggs, Christopher  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5370  
Fax: 808-983-2902  
E-mail: cboggs@mail.nmfs.hawaii.edu

Bos, Melissa  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Phone: 808-587-0098  
Fax: 808-587-0115  
E-mail: mbos@hawaii.edu

Brown, Dail  
NOAA, NMFS Office of Habitat Conservation  
1315 East West Highway  
Silver Spring, MD 20910 USA  
Phone: 301-713-3459  
E-mail: dail.brown@noaa.gov

Asher, Jacob  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7016  
Fax: 808-592-8300  
E-mail: jacob.asher@noaa.gov

Ballance, Lisa  
NOAA Southwest Fisheries Science Center  
8604 La Jolla Shores Drive  
La Jolla, CA 92037 USA  
Phone: 858-546-7173  
Fax: 858-546-7000  
E-mail: Lisa.Ballance@noaa.gov

Beets, Jim  
University of Hawaii at Hilo  
200 W. Kawili Street  
Hilo, HI 96720 USA  
Phone: 808-933-3493  
beets@hawaii.edu

Boland, Raymond  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5716  
Fax: 808-983-2902  
E-mail: Raymond.Boland@noaa.gov

Brainard, Rusty  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7011  
Fax: 808-592-8300  
E-mail: Rusty.Brainard@noaa.gov

Brown, Eric  
Coral Reef Assessment and Monitoring Program  
P. O. Box 1346  
Kaneohe, HI 96744 USA  
Phone: 808-236-7440  
Fax: 808-236-7443  
E-mail: pavona@aol.com
Chojnacki, Joseph  
Joint Institute for Marine and Atmospheric Research  
NOAA Pacific Islands Fisheries Research Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
E-mail: jchojnac@hawaii.edu

Chow, Malia  
NOAA/NOS, NWHI Coral Reef Ecosystem Reserve  
6700 Kalanianaoole Avenue, Suite 215  
Honolulu, HI 96825 USA  
Phone: 808-933-8191  
E-mail: malia.chow@noaa.gov

Clark, Athline  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Phone: 808-587-0099  
Fax: 808-557-0099  
E-mail: athline.m.clark@hawaii.gov

Commendador, Tony  
Western Pacific Regional Fishery Management Council  
1164 Bishop Street, Suite 1400  
Honolulu, HI 96813 USA  
Phone: 808-522-8171

Conant, Sheila  
Department of Zoology  
University of Hawaii  
2538 McCarthy Mall  
Honolulu, HI 96822 USA  
Phone: 808-958-8619  
Fax: 808-956-9218  
E-mail: conant@hawaii.edu

CooperSmith, Ann  
Maui Community College  
310 Ka‘ahumanu Ave.  
Kahului, HI 96732 USA  
Phone: 808-984-3660

Courtney, Catherine  
Tera Tech Em Inc.  
2828 Paa Street, Suite 3080  
Honolulu, HI 96819 USA  
Phone: 808-441-6612  
Fax: 808-836-1689  
E-mail: kitty.courtney@temi.com

Dawson, Teresa  
Environment Hawaii  
1179 Ulupihi Loop  
Kailua, HI 96734 USA  
Phone: 808-262-1893

DeMartini, Edward  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5376  
Fax: 808-983-2902  
E-mail: Edward.Demartini@noaa.gov

Curran, Daniel  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5382  
Fax: 808-983-2902  
E-mail: Daniel.Curran@noaa.gov

Dearborn, Don  
Department of Biology  
Bucknell University  
Moore Avenue  
Lewisburg, PA 17837 USA  
Phone: 570-577-3423  
Fax: 570-577-3537  
E-mail: ddearbor@bucknell.edu

DeMello, Joshua  
Western Pacific Regional Fishery Management Council  
1164 Bishop Street, Suite 1400  
Honolulu, HI 96813 USA  
Phone: 808-522-8171
DiNardo, Gerard
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5397
Fax: 808-983-2902
E-mail: Gerard.DiNardo @noaa.gov

Everson, Alan
NOAA Pacific Islands Regional Office
1601 Kapiolani Blvd.
Honolulu, HI 96814 USA
E-mail: Alan.Everson@noaa.gov

Ferguson, Scott
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-8301
Fax: 808-592-8300
E-mail: Scott.Ferguson@noaa.gov

Fischer, Sarah
National MPA Center
99 Pacific St., Suite 100F
Monterey, CA 93940 USA
Phone: 831-242-2054
Fax: 831-242-2051
E-mail: sarah.lyons@noaa.gov

Fluharty, David
School of Marine Affairs
University of Washington
3707 Brooklyn Avenue, NE
Seattle, WA 98105 USA
E-mail: fluharty@u.washington.edu

Dunlap, Matthew
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-8301
Fax: 808-592-8300
E-mail: mdunlap@mail.nmfs.hawaii.edu

Fauci, Anuschka
University of Hawaii Kewalo Marine Laboratory
41 Ahui Street
Honolulu, HI 96813 USA
Phone: 808-539-7318
Fax: 808-599-4817
E-mail: anuschka@hawaii.edu

Firing, June
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-2819
Fax: 808-592-8300
E-mail: June.Firing@noaa.gov

Flint, Elizabeth
Pacific Remote Islands National Wildlife Refuge Complex
U.S. Fish and Wildlife Service
300 Ala Moana Blvd., Rm 5-231 Box 50167
Honolulu HI 96850 USA
Phone: 808-792-9553
E-mail: Beth_Flint@fws.gov

Friedlander, Alan
Oceanic Institute
NOAA National Center for Coastal and Ocean Science
Makapu’u Point
Waimanalo, HI 96795 USA
Phone: 808-259-3165
Fax: 808-259-5971
E-mail: afriedlander@oceanicinstitute.org
Frost, Kathy
University of Alaska
73-4388 Paiaha St.
Kailua Kona, HI 96740 USA
Phone: 808-325-6885
E-mail: frostlow@ptialaska.net

Gilmartin, William
Hawai’i Wildlife Fund
P. O. Box 70
Volcano, HI 96785 USA
Phone: 808-985-7041
E-mail: Bill-Gilmartin@hawaii.rr.com

Goo, Wende
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5333
Fax: 808-983-2902
Email: Wende.Goo@noaa.gov

Grigg, Richard
Department of Oceanography
University of Hawaii
1000 Pope Road
Honolulu, HI 96821 USA
Phone: 808-956-7186
E-mail: rgrigg@soest.hawaii.edu

Hamilton, Marcia
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1400
Honolulu, HI 96813 USA
Phone: 808-522-8171
Email: Marcia.Himilton@noaa.gov

Hebard, Alastair
Hawai’i Wildlife Fund
P. O. Box 790850
Paia, HI 96779 USA
Phone: 808-250-0820
E-mail: Hebardi@noaa.edu

Gillelan, Hannah
Marine Conservation Biology Institute
600 Pennsylvania Avenue
Washington, DC 20002 USA
Phone: 202-546-5346
Fax: 202-546-5348
E-mail: hannah@mcbi.org

Gomes, Meghan
NOAA Pacific Islands Regional Office
737 Bishop Street
Honolulu, HI 96813 USA
Phone: 808-532-3961
Fax: 808-532-3224
E-mail: meghan.gombs@noaa.gov

Gove, Jamison
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-2819
Fax: 808-592-8300
E-mail: jgove@mail.nmfs.hawaii.edu

Guth, Heidi Kai
Office of Hawaiian Affairs
711 Kapiolani Blvd., Suite 500
Honolulu, HI 96813 USA
Phone: 808-594-1962
Fax: 808-594-1865
E-mail: heidig@aloha.org

Heacock, Donald
Division of Aquatic Resources
Department of Land and Natural Resources
State of Hawaii
3060 Eiwa Street
Lihue, HI 96766 USA
Phone: 808-274-3344
Fax: 808-274-3448
E-mail: donheacock@midpac.net

Heckman, Mark
Waikiki Aquarium
2777 Kalakaua Ave.
Honolulu, HI 96815 USA
Fax: 808-440-9006
E-mail: mheckman@hawaii.edu
Helweg, David  
Biological Research Division  
U.S. Geological Survey  
P.O. Box 44  
Hawaii National Park, HI 96718 USA  
Phone: 808-956-9588  
E-mail: david.helweg@usgs.gov

Hoeke, Ronald  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7018  
Fax: 808-592-8300  
E-mail: Ronald.Hoeke@noaa.gov

Hogrefe, Kyle  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7026  
Fax: 808-592-8300  
E-mail: Kyle.Hogrefe@noaa.gov

Holderied, Kris  
NOAA, Center for Coastal Monitoring and Assessment  
1305 East West Highway, ms N/SCI1  
Silver Spring, MD 20910 USA  
Phone: 301-713-3028x176  
Fax: 301-713-4388  
E-mail: kris.holderied@noaa.gov

Holzwarth, Stephani  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
E-mail: Stephani.Holzwarth@noaa.gov

Hourigan, Thomas  
NOAA, NMFS Office of Habitat Conservation  
1315 East West Highway  
Silver Spring, MD 20910 USA  
Phone: 301-713-3459  
E-mail: tom.hourigan@noaa.gov

Ikehara, Walter  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Phone: 808-587-0096  
Fax: 808-587-0115  
E-mail: walter.n.ikehara@hawaii.gov

Irwin, Linda-Jane  
P. O. Box 37  
Volcano, HI 96785 USA  
Phone: 808-985-7164;  
Fax:  
E-mail: LJIrwinin@utmb.edu

Humphreys, Robert  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5300  
Fax: 808-983-2902  
E-mail: Robert.Humphreys@noaa.gov

Johnson, Gretchen  
US Fish and Wildlife Service  
P.O. Box 1454  
Kilauea, HI 96754 USA  
Phone: 808-635-0926  
E-mail: gretchen-Johnson@usfws.gov
Johnson, Jami
2570 Dole St
Honolulu, HI 96822 USA

Kahiapo, John
Division of Aquatic Resources
Department of Land and Natural Resources
State of Hawaii
75 Aupuni Street, Room 204
Hilo, HI 96720 USA
Phone: 808-974-6222
E-mail: john.n.kahiapo@hawaii.gov

Kazama, Thomas
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5200
Fax: 808-983-2902

Kelley, Christopher
Hawaii Undersea Research Laboratory
University of Hawaii
1000 Pope Road, MSB 303
Honolulu, HI 96822 USA
Phone: 808-956-7437
Fax: 808-956-9772
E-mail: ckelley@hawaii.edu

Kendall, William
USGS Patuxent Wildlife Research Center
12100 Beech Forest Road
Laurel, MD 20708 USA
Phone: 301-497-5868
Fax: 301-497-5545
E-mail: William_Kendall@usgs.gov

Jokiel, Paul
Hawaii Institute of Marine Biology
University of Hawaii
P. O. Box 1346
Kaneohe, Hi 96744 USA
Phone: 808-236-7440
Fax: 808-236-7443
E-mail: jokiel@hawaii.edu

Karczmarski, Leszek
Texas A&M University
4700 Avenue Building 303
Galveston, TX 77551 USA
Phone: 409-740-4718
Fax: 409-740-4717
E-mail: karczmal@tamug.edu

Keenan, Elizabeth
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-2819
Fax: 808-592-8300
E-mail: ekeenan@mail.nmfs.hawaii.edu

Kelly, Kevin
Tera Tech Em Inc.
2828 Paa Street, Suite 3080
Honolulu, HI 96819 USA
Phone: 808-441-6603
Fax: 808-836-1689
E-mail: kevin.kelly@ttemi.com

Kenyon, Jean
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-7019
Fax: 808-592-8300
E-mail: Jean.Kenyon@noaa.gov
Kikkawa, Bert  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5328  
Fax: 808-983-2902  
E-mail: Bert.Kikkawa@noaa.gov

Kobayashi, Donald  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5394  
Fax: 808-983-2902  
E-mail: donald.kobayashi@noaa.gov

Kushima, Jo-Anne  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Phone: 808-587-0095  
Fax: 808-587-0115  
E-mail: jo-anne.n.kushima@hawaii.gov

Leong, Jo-Ann  
Hawaii Institute of Marine Biology  
University of Hawaii  
P O Box 1346  
Kaneohe, HI 96744  
Phone: 808-236-7401  
E-mail: joannleo@hawaii.edu

Lowry, Lloyd  
U.S. Marine Mammal Commission  
73-4388 Pauha St.  
Kailua Kona, HI 96740 USA  
Phone: 808-325-6885  
E-mail: llowry@eagle.ptialaska.net

King, Cheryl  
Hawai’i Wildlife Fund  
191 N. Kihei Rd., Kealia #601  
Kihei, HI 96753 USA  
Phone: 808-385-5464  
E-mail: student@kirc.hawaii.gov

Kosaki, Randy  
NOAA, National Marine Sanctuary Program Reserve  
6700 Kalanianaole Avenue, Suite 215  
Honolulu, HI 96825 USA  
E-mail: Randell.Kosaki@noaa.gov

Lammers, Marc  
Hawaii Institute of Marine Biology  
University of Hawaii  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
E-mail: lammers@hawaii.edu

Longenecker, Ken  
Bishop Museum  
1525 Bernice Street  
Honolulu, HI 96817 USA  
Phone: 808-847-8272  
Fax: 808-847-8252  
klongenecker@bishopmuseum.org

Lundblad, Emily  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Phone: 808-592-8301  
Fax: 808-592-8300  
Honolulu, HI 96814 USA  
E-mail: elundblad@mail.nmfs.hawaii.edu

Maragos, Jim  
Pacific Remote Islands National Wildlife Refuge Complex  
U.S. Fish and Wildlife Service  
300 Ala Moana Blvd.  
Rm 5-231 Box 50167  
Honolulu HI 96850 USA  
Phone: 808-792-9557  
E-mail: Jim_Maragos@fws.gov
Marvin, Paulo  
University of Hawaii  
1680 East West Road, Post 317  
Honolulu, HI 96822 USA  
Phone: 808-956-5391  
Fax: 808-956-3548  
E-mail: marvin@hawaii.edu

McCracken, Marty  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5300  
Fax: 808-983-2902  
E-mail: Marti.McCracken@noaa.gov

McElwee, Kris  
NOAA Pacific Service Center  
737 Bishop Street, Suite 2250  
Honolulu, HI 96813 USA  
Phone: 808-532-3207  
Fax: 808-532-3224  
E-mail: kris.mcelwee@noaa.gov

Merritt, Daniel  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7032  
Fax: 808-592-8300  
E-mail: Daniel.Merritt@noaa.gov

Mitsuyasu, Mark  
Western Pacific Regional Fishery Management Council  
1164 Bishop Street, Suite 1400  
Honolulu, HI 96813 USA  
Phone: 808-522-8171

McClung, Andrew  
Department of Zoology  
University of Hawaii  
2538 McCarthy Mall, Edmondson 152,  
Honolulu, HI 96822 USA  
E-mail: amclung@hawaii.edu

McDermid, Karla  
Marine Science Department  
University of Hawaii at Hilo  
200 W. Kawili St.  
Hilo, HI 96720 USA  
Phone: 808-933-3906  
Fax: 808-974-7693  
E-mail: mcdermid@hawaii.edu

Meadows, Dwayne  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-8301  
Fax: 808-592-8300  
E-mail: dmeadows@mail.nmfs.hawaii.edu

Miller, Joyce  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-8301  
Fax: 808-592-8300  
E-mail: joyce.miller@noaa.gov

Moffitt, Robert  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5373  
Fax: 808-983-2902  
E-mail: Robert.Moffitt@noaa.gov
Moffitt, Russell  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5305  
Fax: 808-983-2902  
E-mail: Russell.Moffitt@noaa.gov

Mundy, Bruce  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5374  
Fax: 808-983-2902  
E-mail: Bruce.Mundy@noaa.gov

Naughton, Maura  
U.S. Fish & Wildlife Service  
911 NE 11th Avenue, Attn: MBHP  
Portland, OR 97232 USA  
Phone: 503-231-6164  
Fax: 503-231-2019  
E-mail: maura_naughton@fws.gov

Nishimoto, Robert  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5379  
Fax: 808-983-2902  
E-mail: Robert.Nishimoto@noaa.gov

O’Malley, Joe  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-530  
Fax: 808-983-2902  
E-mail: Joseph.Omalley@noaa.gov

Moxey, Lucas  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5385  
Fax: 808-983-2902  
E-mail: Lucas.Moxey@noaa.gov

Nachtigal, Paul  
University of Hawaii  
P.O. Box 1346,  
Kaneohe, HI 96744 USA  
E-mail: nachtiga@hawaii.edu

Nelson, David Moe  
NOAA Center for Coastal Monitoring and Assessment  
1305 East West Hwy, 8th Floor  
Silver Spring, MD 20910 USA  
Phone: 301-713-3028x154  
Fax: 301-713-4384  
E-mail: david.moe.nelson@noaa.gov

Noah, Michael  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-8301  
Fax: 808-592-8300  
E-mail: Michael.Noah@noaa.gov

Page, Kimberly  
Joint Institute for Marine and Atmospheric Research  
University of Hawaii  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-8301  
Fax: 808-592-8300  
E-mail: kpage@mail.nmfs.hawaii.edu
Pan, Minling
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822-2396 USA
Phone: 808-983-5347
Fax: 808-983-2902
E-mail: Minling_Pan@noaa.gov

Parks, Noreen
Science & Environment Writer
HC2 Box 6841
Keeau, HI 96749 USA
Phone: 808-966-6916
Fax: 808-966-6916
E-mail: nmmparks@nasw.org

Parrish, Jim
Hawaii Cooperative Fishery Research Unit
Biological Research Division
U.S. Geological Survey
2538 The Mall, University of Hawaii
Honolulu, HI 96822 USA
Phone: 808-956-8350
Fax: 808-956-4238
E-mail: parrish@hawaii.edu

Peyton, K.A.
3190 Maile Way
Honolulu, HI 96822 USA
E-mail: peyton@hawaii.edu

Polovina, Jeffrey
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5390
Fax: 808-983-2902
E-mail: Jeffrey_Polovina@noaa.gov

Potts, Donald
Institute of Marine Sciences
University of California Santa Cruz
A316 E&MS Bldg. UCSC
Santa Cruz, CA 95064 USA
Phone: 831-459-4417
Fax: 831-459-4882
E-mail: potts@biology.ucsc

Parke, Michael
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-7025
Fax: 808-592-8300
E-mail: Michael.Parke@noaa.gov

Parrish, Frank
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5391
Fax: 808-983-2902
E-mail: Frank_Parrish@noaa.gov

Pelizza, Charlie
Hawaiian & Pacific Islands NWRC
300 Ala Moana Blvd., Room 5-231
Honolulu, HI 96850 USA
Phone: 808-792-9490
Fax: 808-792-9585
E-mail: Charlie_Pelizza@fws.gov

Pitman, Robert
NOAA South West Fisheries Science Center
8604 La Jolla Shores Drive
La Jolla, CA 92037 USA
E-mail: robert.pitman@noaa.gov

Pooley, Samuel
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5303
Fax: 808-983-2901
E-mail: Samuel_Pooley@noaa.gov

Puniwai, Noelan
Marine GAP Analysis Program
677 Ala Moana Blvd, Suite 705
Honolulu, HI 96813 USA
Phone: 808-587-8593
Fax: 808-587-8599
E-mail: npuniwai@hawaii.edu
Ragen, Tim
US Marine Mammal Commission
4340 East-West Highway, Room 905
Bethesda, MD 20814 USA
Phone: 301-504-0087
Fax: 301-504-0099
E-mail: Eragen@mmc.gov

Reynolds, Michelle
Pacific Island Ecosystems Research
U.S. Geological Survey
P. O. Box 44
Hawaii National Park, HI 96718 USA

Rooney, John
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-8303
Fax: 808-592-8300
E-mail: John.Rooney@noaa.gov

Schroeder, Robert
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-2811
Fax: 808-592-8300
E-mail: Robert.Schroeder@noaa.gov

Shackelford, Rachel
Hawaii Undersea Research Laboratory, UH
1000 Pope Road, MSB 303
Honolulu, HI 96822 USA
Phone: 808-956-6183
Fax: 808-956-9772
E-mail: shackelf@hawaii.edu

Shomura, Richard
NMFS
3818A Anahea Street
Honolulu, HI 96816 USA
E-mail: rsshomura@aol.com

Reformina, Ellen
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1400
Honolulu, HI 96813 USA
Phone: 808-522-8171

Rodgers, Ku’ulei
Hawaii Institute of Marine Biology
P. O. Box 1346
Kaneohe, HI 96744 USA
Phone: 808-236-7440
Fax: 808-236-7443
E-mail: kuulei@hawaii.edu

Sampaga, Jeffrey
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5380
Fax: 808-983-2902
E-mail: Jeffrey.Sampaga@noaa.gov

Seki, Michael
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5393
Fax: 808-983-2901
E-mail: michael.seki@noaa.gov

Shiota, Paul
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5375
Fax: 808-983-2902
E-mail: Paulo.Shiota@noaa.gov

Simonds, Kitty
Western Pacific Regional Fishery Management Council
1164 Bishop Street, Suite 1400
Honolulu, HI 96813 USA
Phone: 808-522-8220
Fax: 808-522-8226
E-mail: kitty.simonds@noaa.gov
Slingsby, Shauna  
NOAA, NMFS Ecosystem Assessment Division  
1315 East-West Highway  
Silver Spring, MD 20910 USA  
Phone: 301-713-0299  
E-mail: shauna.slingsby@noaa.gov

Smith, Jr., John  
Hawaii Undersea Research Laboratory  
University of Hawaii  
1000 Pope Road, MSB 303  
Honolulu, HI 96822 USA  
Phone: 808-956-9669  
Fax: 808-956-9772  
E-mail: jrsmith@hawaii.edu

Smith, Will  
Hawaii Institute of Marine Biology  
University of Hawaii  
P. O. Box 1346  
Kaneohe, HI 96744 USA  
Phone: 808-561-3692  
Fax: 808-236-7443  
E-mail: wsmith@hawaii.edu

Suthers, Danny  
University of Hawaii  
1680 East West Road, Post 317  
Honolulu, HI 96822 USA  
Phone: 808-956-3890  
Fax: 808-956-3548  
E-mail: suthers@hawaii.edu

Swimmer, Yonat  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-2811  
Fax: 808-592-8300  
Email: Yonat.Swimmer@noaa.gov

Tagawa, Annette  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1151 Punchbowl Street, Room 330  
Honolulu, HI 96813 USA  
Phone: 808-587-0593  
Fax: 808-587-0115  
E-mail: annette.w.tagawa@hawaii.gov

Taylor, Christine  
NOAA, Center for Coastal Monitoring and Assessment  
1305 East West Highway  
Silver Springs, MD 20910 USA  
Phone: 301-713-3028  
E-mail: christine.taylor@noaa.gov
Timmers, Molly
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-7032
Fax: 808-592-8300
E-mail: Molly.Timmers@noaa.gov

Uchiyama, James
NOAA Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu, HI 96822 USA
Phone: 808-983-5378
Fax: 808-983-2902
Email: James.Uchiyama@noaa.gov

Unruh, Bill
Rapture Marine Expeditions
2414 A Parker Pl.
Honolulu, HI 96822 USA
Phone: 808-988-2800
Fax: 808-988-3479
E-mail: bunruh@rapture.cc

Vanderlip, John
Division of Aquatic Resources
Department of Land and Natural Resources
State of Hawaii
1151 Punchbowl Street, Room 330
Honolulu, HI 96813 USA
Fax: 808-587-0115

Vogt, Susan
NOAA, National Marine Sanctuary Program
737 Bishop Street, Suite 2250
Honolulu, HI 96825 USA
Phone: 808-522-7481
Fax: 808-532-3224
E-mail: susan.vogt@noaa.gov

Vroom, Peter
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-2817
Fax: 808-592-8300
E-mail: Peter.Vroom@noaa.gov

Walsh, William
Division of Aquatic Resources
Department of Land and Natural Resources
State of Hawaii
74-381 Kealakehe Parkway, Suite L
Kailua-Kona, HI 96740 USA
Phone: 808-327-6229

Weddell, Jenny
NOAA, Center for Coastal Monitoring and Assessment
1305 East West Hwy, Room 9232, N/SCI-1
Silver Spring, MD 20910 USA
Phone: 301-713-3028 x174
E-mail: jenny.weddell@noaa.gov

Walsh, William
Division of Aquatic Resources
Department of Land and Natural Resources
State of Hawaii
74-381 Kealakehe Parkway, Suite L
Kailua-Kona, HI 96740 USA
Phone: 808-327-6229

Wilcox, Bruce
Division of Ecology and Health
John A. Burns School of Medicine
1960 East-West Road, Biom C105
Honolulu, HI 96822 USA
E-mail: bwilcox@hawaii.edu

Wilkinson, Casey
Joint Institute for Marine and Atmospheric Research
University of Hawaii
NOAA Pacific Islands Fisheries Science Center
1125-B Ala Moana Blvd.
Honolulu, HI 96814 USA
Phone: 808-592-8301
Fax: 808-592-8300
E-mail: Casey.Wilkinson@noaa.gov
Williams, Happy  
NOAA Pacific Islands Fisheries Science Center  
2570 Dole Street  
Honolulu, HI 96822 USA  
Phone: 808-983-5381  
Fax: 808-983-2902  
Email: Happy.Williams@noaa.gov

Wong, Kevin  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-7033  
Fax: 808-592-8300  
E-mail: Kevin.Wong@noaa.gov

Yasumatsu, Janet  
Anuenue Fisheries Research Center  
Division of Aquatic Resources  
Department of Land and Natural Resources  
State of Hawaii  
1039 Sand Island Parkway  
Honolulu, HI 96819 USA  
Phone: 808-832-5002  
E-mail: janety@hawaii.rr.com

Zgliczynski, Brian  
NOAA Pacific Islands Fisheries Science Center  
1125-B Ala Moana Blvd.  
Honolulu, HI 96814 USA  
Phone: 808-592-2815  
Fax: 808-592-8300  
E-mail: Brian.Zgliczynski@noaa.gov