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Alaska Sea Grant College Program Year in Review

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Mission

Alaska Sea Grant develops and supports research, education, and extension programs and partnerships to help sustain economic development, traditional cultural uses, and conservation of Alaska's marine, estuarine, and coastal watershed resources.

Program Highlights

The past year has been both exciting and challenging. Alaska Sea Grant has been engaged in a wide range of important issues in the state. We have increased opportunities for graduate and undergraduate students, supported a number of research and educational initiatives, invested in relevant publications and symposia, and interacted with coastal Alaska via a vibrant Marine Advisory Program extension faculty (MAP). Highlights of the year are described under our five programmatic themes.

COASTAL COMMUNITIES AND ECONOMIES

The Alaska Sea Grant Marine Advisory Program was engaged in the development of a **community cold storage** facility in Petersburg, which was completed in 2006 with operations starting in summer 2007. In its first year, the 6,000 square foot facility handled more than two million pounds of seafood and broke even financially. The facility



Sunny Rice and West Coast Sea Grant Fisheries Extension Enhancement colleagues tour the Petersburg cold storage facility.



Farmed oysters from Prince William Sound.

created one full-time position and one seasonal position. Five of the community's six seafood processors use the facility.

MAP agents developed an **economic model for oyster farmers** to use in evaluating their current practices and assist new entrants into the industry. A Web site titled Resources for Shellfish Aquaculture can be found at http://seagrant.uaf.edu/map/aquaculture/shellfish/index.html.

A statewide meeting of educators, stakeholders, and employers coordinated by MAP focused on how to develop strategies for inspiring more young people, especially Alaska Natives, to pursue marine science and fisheries careers. MAP assisted in the development of UAF's new BA in fisheries beginning this semester, which is available for the first two years at any rural campus. The Alaska State Legislature also increased funding for the UAF fisheries program and rural education funding.

Alaska Sea Grant created a **fuel efficiency Web page, brochure, and poster** in July 2008, with tips for boaters on saving fuel. The materials were used as a model by Sea Grant programs in North Carolina, Georgia, Maine, and Washington. In addition, a survey on fuel efficiency was conducted in partnership with United Fishermen of Alaska.

Alaska Sea Grant published the book *Rat Control for Alaska Waterfront Facilities*, as well as posters, with a grant from the Alaska Department of Fish and Game for their rat control program. Author Terry Johnson



Participants in an Alaska Young Fishermen's Summit.



Nome MAP agent, Heidi Herter, collects blue king crab offshore Little Diomede Island for the AKCRRAB project.



MAP seafood quality specialist, Chuck Crapo, and FITC researcher, Alexandra Oliveira, assess the quality of farmed oysters at FITC.

conducted **rat prevention eradication** work sessions with port operators in Juneau, Ketchikan, Unalaska, and Kodiak. Larry Jones, pest control contractor for the State of Alaska, uses the book in his training program.

SEAFOOD SCIENCE AND TECHNOLOGY

The Alaska Department of Environmental Conservation formally adopted procedures **for protecting shellfish farm products from the marine bacteria** *Vibrio parahaemolyticus* (*Vp*) and issued new *Vp* prevention and response regulations that apply to the entire Alaska shell-

fish aquaculture industry. MAP developed the procedures following a 2004 *Vp* outbreak.

HACCP, sanitation, quality assurance, and other seafood handling classes and workshops held statewide helped improve the overall quality of Alaska's seafood. Over a one-year period, 20 HACCP and other seafood handling workshops were held, training about 130 people.

The Alaska Seafood Processing Leadership Institute 2008 (ASPLI) was led by MAP faculty and staff, with funds provided by a State Training and Employment Program (STEP) grant from the Alaska Department of Labor and Workforce Development (ADOLWD) and Alaska Sea Grant program funds. ASPLI trained nine rising leaders in Alaska's seafood processing industry, representing eight seafood companies operating in eight coastal Alaska communities. This is the second ASPLI offered by ASG MAP. ADOLWD has offered STEP funds to continue the program into 2009, and recruitment is ongoing.

FISHERIES

The Alaska Young Fishermen's Summit was held twice in Anchorage, in January and again in December 2007. This professional development opportunity brought together 140 new and/or young fishermen from around the state with 50 established fishermen and experts in financing, marketing, safety, regulatory, and policy issues for two days of intensive lectures, panels, networking exercises, and small group discussions. Several attendees indicated they had instituted quality handling procedures aboard their vessels the following season, and several summit graduates were elected to the boards of fishermen's associations and have testified before the North Pacific Fishery Management Council and the Alaska Board of Fisheries. Both events were reported in local, regional, state, and national publications, bringing attention to the issues facing new entrants to the commercial fishing industry.

Researchers developed a multispecies age-structured assessment model for arrowtooth flounder, Pacific cod, and walleye pollock in the Gulf of Alaska. The model is a significant contribution toward an ecosystem-based approach to fisheries management, and comes as a direct result of needs expressed by the North Pacific Fishery Management Council.

The Alaska King Crab Research, Rehabilitation and Biology (AKCRRAB) program, led by Alaska Sea Grant, had its second successful year of adult collection and egg hatch in a research program aimed at determining the feasibility of raising red and blue king crab in hatcheries, as a means to restore wild king crab stocks near Kodiak and the Pribilof Islands. The NOAA Aquaculture Program provided a \$175,000 grant to Alaska Sea Grant, to hire a biologist and conduct research.

The Alaska Fisheries Business Assistance Project or FishBiz offered classes, training, technical assistance, and information to fishermen around the state on marketing, finance, and technical support. One Alaska Sea Grant—led direct-marketing effort, which began in 2006 for fishermen in the Kuskokwim River salmon fishery, led to the establishment of a special fishery for direct marketers with fishermen receiving an increase in ex-vessel prices for salmon.

The **North Aleutian Basin Energy Fisheries Workshop** convened in Anchorage in March 2008, sponsored by Alaska Sea Grant as well as the fishing industry, coastal communities, and oil and gas interests, among other stakeholders. The purpose of the workshop was to examine social, economic, and environmental issues related to proposed offshore energy development in the North Aleutian Basin. A proceedings book will be pub-

An ongoing research project seeks to utilize local traditional ecological knowledge (TEK) of whitefish species to identify their stocks, distribution, life history, and seasonal habitat in the Yukon River Delta. A relationship has developed among the researcher, the community of Scammon Bay, and Randy Brown, U.S. Fish and Wildlife Service fisheries biologist. USFWS will likely use Bering cisco data from Scammon Bay gathered by the researcher and local Alaska Natives, to guide future USFWS fisheries biology research in the region.

ECOSYSTEMS AND HABITATS

lished in 2009.

MAP's marine mammal research efforts continued under the **Gulf Apex Predator-Prey** project (GAP), a NOAA-funded study. Research showed that the diets and distribution of Kodiak's marine mammals (sea lions, whales, and sea otters) are diverse and flexible, responding to changes in environmental conditions and local prey availability over time. GAP studies have illuminated how changes in coastal climate and commercial harvests may affect endangered marine mammals and other apex predators in Alaska waters. As a multiyear study, GAP is building the time-series data needed to explore and anticipate effects of environmental change on primary and secondary production in a coastal marine ecosystem.

Multi-agency researchers characterized the occurrence and rate of **disease and parasites among threatened Steller's eiders**, harlequin ducks, and other wintering sea ducks in Unalaska Bay. Researchers identified five viruses and fourteen genera of bacteria. Results of this study will be used by USFWS, U.S. Environmental Protection Agency, Alaska Department of Environmental Conservation, and others to find solutions to the problems posed by disease in sea ducks.



Sea otters are among prey of killer whales in the Aleutians.



Northern fur seal.

Passive acoustics were used to continuously monitor killer whale visitation and feeding and predation behavior at northern fur seal rookeries at the Pribilof Island of St. Paul. The project proved that the use of passive acoustic recording is a better tool to monitor killer whale activity near fur seal rookeries than other methods, which are restricted to daylight observations.

The Aleutian Island Marine Ecosystem Research and Information Plan continues to work with Alaska stakeholders and the Alaska Marine Ecosystem Forum to develop a set of prioritized management-critical research needs, drawing from input received from multiple stakeholders. The plan is being created with a five-year, \$400,000 grant from the National Sea Grant College Program.



Common goldeneye.



Marla Brownlee convened school teachers at the NOAA/UAF Kasitsna Bay Lab to work on the Alaska Seas and Rivers curriculum.



Review panelists ponder input on Regional Marine Research Plan.



Sean Willison explains his sedge research to Brian Allee.

native sedges at decomissioned oil field sites on North Slope coastal wetlands.

Alaska Seas and Rivers curriculum development is coordinated by Alaska Sea Grant education specialist Marla Brownlee, funded by a threeyear, \$600,000 grant from the Alaska Department of Education and Early Development.

The National Science Foundation in September 2008 awarded a five-year, \$2.5 million grant to a consortium of marine agencies, including Alaska Sea Grant, to establish Alaska as a **Center for Ocean**

Science Education Excellence (COSEE Alaska). Alaska Sea Grant will hire an education specialist under the grant. Primary goals of COSEE Alaska are to foster awareness of ocean issues amid a changing Alaska climate, and to link researchers with educators.

MAP hosted local presentations by scientists in Unalaska, Nome, and Cordova. In the Nome region, presentations were also available to outlying villages via videoconference. More than 1,000 local residents attended the presentations, which also offered an excellent opportunity for scientists to learn about local knowledge.

Alaska Sea Grant Education Services staff continued its award-winning efforts of publications production and marketing, media relations, scientific conferences, and public events. Improvements were made in the ability to deliver information, including creation of a shopping cart for our Web catalog and an enhanced presence on Amazon.com. Nearly 50 new publications (print and electronic) were produced. Two-hundred forty-six new and previously existing titles were distributed worldwide, totaling some 30,000 individual items. The National Sea Grant Library recorded 23,378 downloads of Alaska Sea

MARINE AND AQUATIC SCIENCE LITERACY

UAF fisheries graduate student Seanbob Kelly was chosen as a 2008 **National Sea Grant Knauss Fellow**, after a gap of nearly ten years with no Knauss Fellows from Alaska. Seanbob finishes his Washington, D.C., fellowship in December 2008. Three new Alaska Knauss Fellows will start in February 2009: students Celeste Leroux, Erin Steiner, and Mary Bozza.

Alaska Sea Grant provided **fellowships for 18 graduate students and two undergraduate students** at the University of Alaska. In most cases, the fellowships were linked to specific research projects funded by Alaska Sea Grant.

A partnership was formed with the **BP Alaska Environmental Studies Program** to establish a joint \$80,000 per year graduate and undergraduate student fellowship program that addresses BP research needs. The first fellowship went to a graduate student at UAF, Sean Willison, to conduct studies related to restoring

Grant publications. Eighteen news releases were written and distributed. Staff and faculty appeared in media stories independent of news release efforts, for a total of 117 known media placements.

ORGANIZATIONAL AND FISCAL NEWS

Personnel: Dr. Brian Allee, Alaska Sea Grant director for the past five years, departed the program May 31 to be closer to his family. SFOS Dean Denis Wiesenburg appointed MAP leader Paula Cullenberg as interim director. Dr. David Christie, director of the West Coast & Polar Undersea Research Program at SFOS, was appointed interim associate director. Members of the search committee for a new director are Paula Cullenberg, Kurt Byers, Jeff Stephan, Arliss Sturgulewski, and Gordon Kruse. The position is currently open with the first review of applicants in January, and a permanent



Brian Allee migrates to Portland.



Gary Freitag, Alaska Sea Grant's newest Marine Advisory Program agent.

Sea Grant director in place as early as spring 2009.

Longtime MAP seafood technology specialist, Don Kramer, retired in July 2008. A new MAP faculty member, Gary Freitag, was hired in January 2008 as the agent for Ketchikan and southern Southeast Alaska. Freitag, a many-year resident of Ketchikan, has 20 years of experience in community development, fisheries, and salmon aquaculture. The Ketchikan position is a tenure-track faculty position supported with UAF funds.

Dawn Montano joined the Fairbanks staff in October 2008, and has been working steadily to fill the many publication orders that arrive each day.

Two MAP positions are open and currently accepting applications—the Bristol Bay agent position and the marine education specialist to coordinate COSEE Alaska. Terry Johnson, tourism and recreational specialist for MAP, has transferred to Anchorage from Homer in order to better carry out his statewide role.

Advisory Committee news: Bruce Bustamante, Princess Tours, has joined the Alaska Sea Grant Advisory Committee at this meeting. Bruce will represent the cruise ship industry since John Shively is no longer working for Holland America. John has agreed to stay on the Advisory Committee, now representing the Resource Development Council for Alaska. Geoff Haskett is the new designee to the Advisory Committee from the U.S. Fish and Wildlife Service, and Robert Winfree has been designated as the formal representative to the Advisory Committee from the National Park Service. We are grateful to all members of the Alaska Sea Grant Advisory Committee for their continued support and time.

Funding: Alaska Sea Grant's overall budget, including the Marine Advisory Program, outside sources, and University funding, is more than \$6.5 million per year. Funding from National Sea Grant has been essentially flat for the last five years, while salaries and other expenses have risen, leading to an overall decline in our programmatic resources.

This year, Alaska Sea Grant and the Marine Advisory Program faculty were successful in garnering \$2.5 million in outside funding for a number of specific projects. Revenues from the sale of books, videos, and other education materials have increased, providing support to our unique and highly regarded publishing operations.

A significant concern for Alaska Sea Grant is the potential termination of funding for five MAP faculty positions (Nome, Unalaska, Juneau, Petersburg, and Cordova) within the next 18 months. A request to UAF for \$600,000 of additional funds to sustain these positions was not ranked highly enough to make the list of University-wide requests to the Alaska State Legislature. We have a verbal commitment from the new interim UAF chancellor Brian Rogers to add this request to next year's list and we will be asking the Advisory Committee to help us make this happen.

Strategic Planning: National Sea Grant has developed a new strategic plan and Alaska Sea Grant is revising and updating our plan to align with it. We have completed a constituent survey, received input from the Advisory Committee, staff, and faculty, and developed goals and objectives that we will review at this meeting. An implementation plan also will be written that explains in greater detail the strategies and actions we will take to carry out the plan.

Request for Proposals: Our request for proposals will open in December 2008 for pre-proposals. We will be asking for Advisory Committee input in ranking the pre-proposals during the week of February 9 in Anchorage.

Alaska Sea Grant Conferences and Workshops

FEBRUARY 2007-JANUARY 2008

| Year | Month | Title | Faculty/Sponsor | Location | Attendees |
|------|----------|--|--|--------------|-----------|
| 2007 | 2 | AMSEA Vessel Safety Drills Certification | Baker | Cordova | 23 |
| 2007 | 2 | Marine Safety Refresher Course | Baker | Cordova | 8 |
| 2007 | 2 | Sanitation | Kramer | Anchorage | |
| 2007 | 2 | Quality Assurance/Quality Control | Kramer | Anchorage | 7 |
| 2007 | 2 | Better Process Control School | Kramer | Anchorage | 9 |
| 2007 | 2 | HACCP | Kramer | Anchorage | |
| 2007 | 2 | Marine Mammal Training - OTC | Wynne | Anchorage | 12 |
| 2007 | 2 | Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative | AYK-SSI | Anchorage | 298 |
| 2007 | 3 | Smoked Seafood Workshop | Brown, Rice | Indian | |
| 2007 | 3 | International Smoked Seafood Conference | Brown, Rice, Kramer/AFDF, ASG, ASMI, CA SG, PCCRC | Anchorage | 103 |
| 2007 | 3 | HACCP | Kramer, Baker | Cordova | 11 |
| 2007 | 3 | Oysters A to Z | RaLonde | Kodiak | 24 |
| 2007 | 3 | King Crab Enhancement Workshop | RaLonde | Seward | 33 |
| 2007 | 3 | PSP Technician Training | RaLonde | Kodiak | 4 |
| 2007 | 3 | Oysters A to Z | RaLonde | Kodiak | 24 |
| 2007 | 3 | Business of Tourism/Birding in Y-K | Reeve | Bethel | |
| 2007 | 3 | Business Issues/Creating a Rural Tour Operation | Reeve, Johnson | Bethel | 8 |
| 2007 | 4 | Marine Habitat Mapping Technology Workshop for Alaska | NPRB | Anchorage | 89 |
| 2007 | 4 | UAF Home Canning Workshop | Baker | Cordova | 9 |
| 2007 | 4 | Marine Safety Drills certification course | AMSEA | Cordova | 21 |
| 2007 | 4 | Bristol Bay Offshore Exploration Planning | Brown | Dillingham | • |
| 2007 | 4 | HACCP | Kramer | Anchorage | • |
| 2007 | 5 | HACCP | Kramer | Wrangell | • |
| 2007 | 5 | HACCP | Kramer | Petersburg | 8 |
| 2007 | 5 | HACCP | Kramer | Bethel | • |
| 2007 | 5 | Responding to Whale Entanglements: Workshop for Commercial Fishermen | Rice | Petersburg | 17 |
| 2007 | 5 | Salmon Quality Handling | Rice | Wrangell | 6 |
| 2007 | 5 | Salmon Quality Handling | Rice | Petersburg | 9 |
| 2007 | 5 | Marine Mammal Training - AMMOP | Wynne | Anchorage | 16 |
| 2007 | 5 | Marine Mammal Training - OTC | Wynne | Anchorage | 13 |
| 2007 | 6 | Marine/Aquatic Science Education Workshop for Teachers | Brownlee | Kasitsna Bay | ······ |
| 2007 | 6 | Just in Time | Crapo, Herter | Teller | 18 |
| 2007 | 6 | HACCP | Crapo, Herter | Teller | 4 |
| 2007 | 6 | Direct Marketing for Fishermen in Cook Inlet | Haight, Fisk | Kenai | 4 |
| 2007 | 6 | Direct Marketing for Fishermen in Cook Inlet (evening) | Haight, Fisk | Kenai | 7 |
| 2007 | 6 | Direct Marketing for Fishermen in Cook Inlet | Haight, Fisk | Homer | 8 |
| 2007 | 6 | Fish ID Class - Groundfish - OTC | Kramer | Anchorage | 12 |
| 2007 | 6 | Quality Assurance Project Planning | RaLonde | Anchorage | 18 |
| 2007 | 6 | Transition: Looking Both Ways High School Marine Science Camp | RaLonde | Juneau | 22 |
| 2007 | 6 | Marine Mammal Training - OTC | Wynne | Anchorage | 15 |
| 2007 | 7 | Resource Management for Fisheries (CPRB high school) | Baker | Cordova | 14 |
| 2007 | 7 | Marine Mammal Training - OTC | Wynne | Anchorage | 18 |
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Conferences and Workshops (continued)

| Year | Month | Title | Faculty/Sponsor | Location | Attendees |
|------|--------|---|--------------------|---------------|---|
| 2007 | 8 | Camp Qungaayux (safety, survival, PSP sampling, anatomy) | Brewer | Unalaska | 62 |
| 2007 | 8 | COASST Stranded Seabird Worskhop | Brewer/COASST | Unalaska | 7 |
| 2007 | 8 | Ocean Explorers (8-12 year olds) | Herter | Nome | |
| 2007 | 8 | Gillnet Mending Workshop | Herter/Kawerak | Nome | |
| 2007 | 8 | Field Biology for High School Students | Herter/NACTEC | Nome | |
| 2007 | 8 | Sanitation | Kramer, Brewer | Unalaska | 4 |
| 2007 | 8 | HACCP | Kramer, Brewer | Unalaska | 5 |
| 2007 | 8 | Marine Mammal Training - OTC | Wynne | Anchorage | 12 |
| 2007 | 9 | Ecosystem-Based Management Implementation within Fisheries | Baker | San Francisco | 44 |
| 2007 | 9 | FOAMI talk at Museum of Aleutians - EMAP Research Project | Brewer | Unalaska | 81 |
| 2007 | 9 | Discover Scuba Diving Course | Brewer | Unalaska | 5 |
| 2007 | 9 | HACCP | Kramer | Anchorage | 17 |
| 2007 | 9 | Sanitation | Kramer | Anchorage | 7 |
| 2007 | 9 | Intertidal Aquaculture in Alaska | RaLonde | Seattle WA | 120 |
| 2007 | 9 | West Coast Sea Grant Program Bivalve Aquaculture and the Environment | RaLonde | Seattle WA | 220 |
| 2007 | 10 | Sitka Seafood Marketing Workshops | Haight, Fong, Rice | Sitka | 11 |
| 2007 | 10 | Nome Seafood Business and Marketing Workshops | Haight, Herter | Nome | 7 |
| 2007 | 10 | Emergency Preparedness | Herter/AMSEA | Nome | 3 |
| 2007 | 10 | Survival Suit Demonstration/School | Herter/AMSEA | Nome | 50 |
| 2007 | 10 | Survival Suit Demonstration/Lake | Herter/AMSEA | Nome | 20 |
| 2007 | 10 | Emergency Preparedness | Herter/AMSEA | Savoonga | ············ |
| 2007 | 11 | Financial Statements & Recordkeeping for Fishing Operations | Haight, Baker | Cordova | 13 |
| 2007 | 11 | IPY Seminar - Sea Ice Monitoring | Haight/UAF | Nome | 106 |
| 2007 | 11 | FISH EXPO - Charterboat Conference | Johnson | Seattle | |
| 2007 | 11 | Financial Management for Alaska Shellfish Farmers | RaLonde, Haight | Anchorage | •••••• |
| 2007 | 11 | HUD Business Workshops | Reeve/AVCP | Y-K | 90 |
| 2007 | 11 | Rural Development 300 - Class | Steiner | Anchorage | · · · · · · · · · · · · · · · · · · · |
| 2007 | 12 | Alaska Young Fishermen's Summit II | Baker, Rice | Anchorage | 71 |
| 2007 | 12 | Discover Scuba Diving Course | Brewer | Unalaska | • |
| 2007 | 12 | Intro to Direct Marketing | Haight | Anchorage | 8 |
| 2007 | | AMSEA Marine Safety and Survival | Brewer | Unalaska | 62 |
| 2007 | | Intertidal Ecology Monitoring | Brewer | Unalaska | 12 |
| 2007 | | High School Advanced Dissections | Brewer | Unalaska | 8 |
| 2007 | | Intertidal Ecology Workshop | Brewer | Akutan | 8 |
| 2007 | | Sea Week Explorations | Brewer | Unalaska | 12 |
| 2007 | ······ | Water Quality Lectures | RaLonde | | |
| 2008 | 1 | IPY Seminar - Subsistence and Art (Amber Lincoln) | Herter/UAF | Nome | |
| 2008 | 1 | IPY Seminar - Storms (David Atkinson) | Herter/UAF | Nome | |
| 2008 | 1 | Writing Your Own Business Plan Workshops (HUD, Y-K Cultural Center, KUC, AVCP) | Reeve | Bethel | 12 |
| 2008 | 1 | Anchorage Audubon presentation | Reeve, Wiese | Anchorage | |
| 2008 | 1 | Rural Development 300 - Class (Global Environmental Issues) | Steiner | Anchorage | |
| 2008 | 1 | Oasis Earth - Service High School Seminar | Steiner | Anchorage | 100 |
| | | | | | |

Alaska Sea Grant Publications and Media Placement

FEBRUARY 2007-JANUARY 2008

TECHNICAL REPORTS

- Smoker, W.W., and R. RaLonde. 2007. Final Report: Improved effectiveness of hatchery salmon smolt production. Grant Goooo1895, Report FCSRS001, Cooperative State Research Services, United States Department of Agriculture.
- Thayer, G., P. Cullenberg, and D. Garza. 2007. Synthesis of Education Programs, Scholarships, Loan and Internship Opportunities Available to Assist in Increasing the Number of Minorities Working in Fisheries and Marine Sciences. NOAA Technical Memorandum NOS NCCOS 53. March 2007.

PROCEEDINGS, SYMPOSIA

- Brewer, R. 2007. Community-Based Coastal Observing in Alaska: Aleutian Life Forum 2006. Alaska Sea Grant, University of Alaska, AK-SG-07-03, Fairbanks
- Cullenberg, P., ed. 2007. Alaska's Fishing Communities: Harvesting the Future. Conference Proceedings. Alaska Sea Grant, University of Alaska Fairbanks, AK-SG-07-02, Fairbanks.
- Heifetz, J., J. DiCosimo, A.J. Gharrett, M.S. Love, V.M. O'Connell, and R.D. Stanley, eds. 2007. Biology, Assessment, and Management of North Pacific Rockfishes. Alaska Sea Grant, University of Alaska Fairbanks, AK-SG-07-01, Fairbanks.

BROCHURES, FACT SHEETS

- Alaska King Crab Research, Rehabilitation and Biology Program Agenda April 07.
- Alaska King Crab Research, Rehabilitation and Biology Program Financial Status Aug. 07. Fact sheet.
- Alaska King Crab Research, Rehabilitation and Biology Program Milestones April 07. Fact sheet.
- Alaska Seas and Rivers Curriculum Feb. 08. Fact sheet.
- Alaska Seas and Rivers Project Update Nov. 07. Fact sheet.
- Aleutian Islands Research Plan Dec. 07. Fact sheet.
- Aleutian Islands Research Plan Jan. 08. Fact sheet.
- Aquaculture, Alaska Style: NOAA Aquaculture Program May 07. Fact sheet.
- FY 2007 Budget Cut Scenario Mar. 07. Fact sheet.
- International Smoked Seafood Conference Brochure Mar. 07 Unifying the Vision Feb. 07. Fact sheet.

PEER-REVIEWED JOURNAL ARTICLES, BOOK CHAPTERS

Chantarachoti, J., A.C.M. Oliveira, B.H. Himelbloom, C.A. Crapo, and D.G. McLachlan. 2006. Portable electronic nose for detection of spoiling Alaska pink salmon (*Oncorhynchus qorbuscha*). Journal of Food and Science 71(5):S414-S421(1).

- Chantarachoti, J., A.C.M. Oliveira, B.H. Himelbloom, C.A. Crapo, and D.G. McLachlan. 2007. Alaska pink salmon (Oncorhynchus gorbuscha) spoilage and ethanol incidence in the canned product. Journal of Agricultural and Food Chemistry 55(7):2517-2525.
- Geiger, H.J., I. Wang, P. Malecha, K. Hebert, W.W. Smoker, and A.J. Gharrett. 2007. What Causes Variability in Pink Salmon Family Size? Transactions of the American Fisheries Society 136:1688-1608.
- Hamilton, J., and B. Konar. 2007. Implications of substrate complexity and kelp variability for south-central Alaskan nearshore fish communities. Fisheries Bulletin 105:189-196.
- Moore, S.E., K. Wynne, J. Clement, and J.M. Grebmeier. 2007. Gray whale occurrence and forage southeast of Kodiak Island, Alaska. Marine Mammal Science 23(2):419-428
- Park, W., D.C. Douglas, and T.C. Shirley. 2007. North to Alaska: Evidence for conveyor belt transport of Dungeness crab larvae along the west coast of the United States and Canada. Limnol. Oceanogr. 52(1):248-256.
- Tojo, N., G.H. Kruse, and F.C. Funk. 2007. Migration dynamics of Pacific herring (*Clupea pallasii*) and response to spring environmental variability in the southeastern Bering Sea. Deep-Sea Research II 54:2832-2848.
- Wang, I.A., S.E. Gilk, W.W. Smoker, and A.J. Gharrett. 2007. Outbreeding effect on embryo development in hybrids of allopatric pink salmon (*Oncorhynchus gorbuscha*) populations, a potential consequence of stock translocation. Aquaculture 72:S152-S160.
- Witteveen, B.H., K.M. Wynne, and T.J. Quinn II. 2007. A feeding aggregation of humpback whales (*Megaptera novaeangliae*) near Kodiak Island, Alaska: Historical and current abundance estimation. Alaska Fisheries Research Bulletin 12(2):187-196.

VIDEOS, CDS, DVDS

- Alaska Sea Grant. 2007. A Lift to Louisiana. Alaska Sea Grant. M-73. 3:30 min.
- Alaska Sea Grant. 2007. Financial Statements and Business Calculations for Commercial Fishermen & Alaska Fish Business Plan. Alaska Sea Grant, University of Alaska Fairbanks, MAB-58. (CD)
- Mercy, D. 2007. Flooding Control: Knowledge and Tools to Prevent Sinking. AMSEA and Alaska Sea Grant Marine Advisory Program. MAPV-64. 14 min.

HANDBOOKS, MANUALS, GUIDES

Baker, T. 2007. Tips for Direct Marketers: Preparing for the Onboard Inspection, Alaska Sea Grant College Program, University of Alaska Fairbanks, Fairbanks, ASG-45. 6 pp.

- Haight, G., A. Crow, and H. Geier. 2007. Developing Cooperatives for the Alaska Seafood Industry. Alaska Sea Grant, University of Alaska Fairbanks, MAB-61, Fairbanks.
- Johnson, T. 2007. Fishermen's Direct Marketing Manual, 4th edn. Alaska Sea Grant Marine Advisory Program, University of Alaska Fairbanks, MAB-53, Fairbanks.
- Kolbe, E., and D. Kramer. 2007. Planning for seafood freezing. Alaska Sea Grant College Program, University of Alaska Fairbanks. MAB-60. Fairbanks.
- Stevenson, D.E., J.W. Orr, G.R. Hoff, and J.D. McEachran. 2007. Field Guide to Sharks, Skates, and Ratfish of Alaska. Alaska Sea Grant, University of Alaska Fairbanks, SG-ED-57, Fairbanks.
- Wynne, K. 2007. Guide to Marine Mammals of Alaska, 3rd edn. Alaska Sea Grant College Program, MAB-44, Fairbanks.

ELECTRONIC PUBLICATIONS

- Alaska Seas and Rivers Curriculum, Grades K-5, http://seagrant.uaf.edu/marine-ed/curriculum/index.php?option=com_frontpage&Itemid=108.
- RaLonde, R. 2007. (ed.). Proceedings of Financial Management for Alaskan shellfish farmers: Planning Tools for Success. CD of workshop presentations and supplemental management tools. Alaska Sea Grant and CSREES Risk Management Program, Washington State University. http://www.wsg. washington.edu/research/geoduck/streaming_video.html.

THESES, DISSERTATIONS

- Holzinger, A. 2007. An econometric analysis of global salmon market prices and their implications for the Alaska wild salmon industry. Master's thesis, University of Alaska Fairbanks, SGT-07-01.
- Huang, J. 2007. Quality characterization and process design of salmon oil production for nutraceutical market. Master's thesis, University of Alaska Fairbanks, SGT-07-03.
- Morey, A. 2007. Fish bacterial flora identification via rapid cellular fatty acid analysis. Master's thesis, University of Alaska Fairbanks, SGT-07-05.
- Ormseth, O.A. 2007. Reproductive potential of Pacific cod (*Gadus macrocephalus*) in Alaska. Ph.D. dissertation, University of Alaska Fairbanks, SGT-07-07.
- Park, W. 2007. Advection and retention of larval Dungeness crab *Cancer magister* in Glacier Bay and adjacent areas. Ph.D. dissertation, University of Alaska Fairbanks, SGT-07-02.
- Raudonis, R. 2007. Bacteria associated with paralytic shellfish toxin-producing strains of *Anabaena circinalis*. Master's thesis, University of Alaska Fairbanks, SGT-07-06.
- Tojo, N. 2006. Environmental cues for Pacific herring (*Clupea pallasi*) spawning in northern Bristol Bay. Master's thesis, University of Alaska Fairbanks, SGT-06-02.

Triebenbach, S.P. 2007. Compensatory growth following winter food deprivation in hatchery produced coho and chinook salmon smolts. Master's thesis, University of Alaska Fairbanks, SGT-07-04.

NEWSLETTERS, PERIODICALS

- Brewer, R. 2007. Monitoring Changes in Alaska's Coastline. Alaska Seas & Coasts 3:1-12.
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Alaska Marine Research Poster Mar. 07

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MEDIA PLACEMENTS*

18 news releases were distributed.

117 media placements about ASG/MAP people and activities occurred.

11 Octopus Ink articles were written.

66 Octopus Ink media placements were made.

2 photo media placements were made.

Highlights

King Crab Research, Rehabilitation and Biology Program—5 releases, 28 placements.

North Aleutian Basin Energy and Fisheries—3 releases, 12 placements

Young Fishermen's Summit—1 release, 13 placements. Fuel Efficiency Initiative—1 release, 5 placements

ASG News Releases Produced and Placements, February 2007-January 2008

Alaskans regroup in battle against marine debris 23 January 2008

Anchorage Daily News 1/27 Dutch Harbor Fisherman 1/31 Arctic Sounder 2/1

Dialogue sought on North Aleutian Basin oil and gas development 23 January 2008

East Aleutian Borough (web site) 1/23 Area M Fishery (web site) 1/23 SitNews.com 1/23 SeafoodNews.com 1/25 FishUpdate.com 1/25 Arctic Sounder 1/25 Dutch Harbor Fisherman 1/31 Dutch Harbor Fisherman 2/1 Alaska Journal of Commerce 2/3 KDLG-FM Dillingham 2/18

^{*}These are known media placements. Many others may have occurred that were not trackable.

Alaska Sea Grant Marine Advisory Program and UAF Northwest Campus host IPY speaker series in Nome o8 January 2008

o placements recorded

Fishermen collect Alaska red king crab for science o6 December 2007

SeafoodNews.com 12/6 SitNews.com 12/6 FishUpdate.com 12/7 Aquanet.com 12/15 FarNorth Science.com 12/17 Alaska Report12/17 Lobster Blog 12/19

Alaska Young Fishermen's Summit II 03 December 2007

FishFactor: Laine Welch column in Anchorage Daily News 10/20
Pacific Fishing 11/1
Dutch Harbor Fisherman 11/29
Kenai Peninsula Clarion 11/29
Kodiak Daily Mirror 12/6
FishUpdate.com 12/4
Homer News 12/7
Homer Tribune 12/5
Kodiak Daily Mirror 12/6
KMXT-Kodiak 12/11
FishUpdate.com 12/12
Alaska Journal of Commerce 12/30
Alaska Journal of Commerce12/30 (two stories in same issue)

Applications open for Alaska Seafood Processing Leadership Institute 2008 of November 2007

KMXT-Kodiak 10/29 UA Corporate Programs fact sheet (Summer 2007) KTUU-TV Alaska Statewide News, Anchorage 11/05 Dutch Harbor Fisherman 11/26 Kenai Peninsula Clarion 11/29

Stakeholders talk energy and fishing in North Aleutian Basin o5 November 2007

Sitnews.com 11/5 Intrafish.com 11/6 FishUpdate.com 11/6 Dutch Harbor Fisherman 11/26 NOAA E-currents Newsletter (Fall 2007)

UAF, Bodø University create forum for dialogue between North Aleutian stakeholders on fisheries and offshore energy development og October 2007

FishUpdate.com 10/10
IntraFish.com 10/11
Aleutians East Borough newsletter, "The Pipeline" 10/10
Tundra Drums 10/22
Cordova Times 10/26
Bristol Bay Times 10/26 (two stories in same issue)
Tundra Drums 11/1

NOAA Fisheries boosts funding for Alaska king crab research 28 September 2007

o placements recorded

Great white sharks in Alaska waters, who knew? 28 September 2007

o placements recorded

Alaska wall calendar more than pretty pictures, it's educational 29 June 2007

o placements recorded

UAF fisheries graduate student chosen as National Sea Grant Knauss Fellow 26 June 2007

KTOO-FM Juneau 6/28 Fairbanks News-Miner 7/1

Blue king crabs hatch in Alaska research program to rebuild wild stocks 31 May 2007

IntraFish.com 5/31
SiteNews.com 5/31
Fish Farmer online 6/1
Seafood.com 6/1
Alaska Journal of Commerce 6/3
NOAA OAR NSG News 6/4
Deadliest Catch Blog 6/5
Capital City Weekly June 07
Fish Farmer International June 07
Lobster Fact Blog June 07

Teaching children to stay alive when they become lost outdoors 27 March 2007

Arctic Sounder 4/4

Bering Strait region gets first Marine Advisory Program agent 13 March 2007

o placements recorded

Red king crab eggs hatch in Alaska research program 8 March 2007

Homer News Commercial Fishing Edition March 2007 Deadliest Catch Blog 3/16 FishUpdate.com 3/9 Alaska Journal of Commerce 3/18 Seward Log 3/29 Dutch Harbor Fisherman 3/22

Alaska Sea Grant announces new publications and videos 7 February 2007

o placements recorded

Crab research program prepares for egg hatch 2 February 2007

KTVA-Anchorage 2/7
IntraFish 2/7
SitNews 2/7
FishUpdate 2/7
Fish Factor Radio, Laine Welch 2/8
Seward Phoenix Log 2/8
KMXT-Kodiak News 2/11
KMXT-Kodiak 2/12
APRN Alaska News Nightly 2/12
KTUU-TV Alaska Statewide News, Anchorage 2/14
Alaska Journal of Commerce 2/18

MAP agent, researcher, or media-initiated

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- Baker, Torie, Slime Line T-shirts, Laine Welch's Fish Radio 9/18/07; Laine Welch's Fish Radio newspaper column, Anchorage Daily News, 9/22/07
- Brewer, Reid, Photo published on front page of the Money section of the Anchorage Daily News, 19 August 2007, Beaufort oil rigs parked in Dutch returning home
- Brewer, Reid, Photos of oil exploratory ships in Dutch Harbor published on Shell website http://media.alaskacoalition.org/Shell/index.html, 20 October 2007
- Brewer, Reid, Divers find new species in Aleutians, Dutch Harbor Fisherman, (SFOS news release) 11/8/07
- Brewer, Reid, Mercury in Alaska fish: Something else to worry about, Cordova Times 1/17/08, Tundra Drums 1/17/08, Bristol Bay Times 1/17/08, Dutch Harbor Fisherman 1/17/08,
- ComFish 2007, Kodiak Daily Mirror, 2/22/07
- Cullenberg, Paula, Alaska Marine Conservation Alliance Renews Support for Young Fishermen's Summit: Check Presented for December Summit in Anchorage, Seafood.com 10/9/07
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- Dochtermann, Ludger, No king crab in Kodiak after 25 years, editorial, Alaska Report.com 11/19/07
- Gadid Conference. Pacific Fishing, February 2007
- Guide to Alaska Marine Mammals, right whale graphic, Bering drilling could hurt right whales, Anchorage Daily News, 8/14/07
- Herter, Heidi, IPY research cruise, Nome Nugget, 8/9/07
- Herter, Heidi, Students learn scientific process at Salmon Lake field biology course, Nome Nugget, 8/10/07
- Herter, Heidi. Real Science: NACTEC students apply biology concepts to familiar animals, plants, UAF Northwest Campus newsletter, 8/7/07
- Johnson, Terry, Feeding eagles federal violation, Homer News, 1/10/08
- Johnson, Terry, Marine Advisory Program agent in Homer is writing a training manual to help marine facilities prevent the spread of rats, KBBI-Homer, 12/21/07

- Johnson, Terry, New state regulation seeks to curtail rodent population, Dutch Harbor Fisherman 1/17/08, Anchorage Daily News 1/28/08, JP McHale Pest management, Inc. 2/1/08
- KMXT-Kodiak, Kodiak crabber optimistic about rehab program, (Ludger Dochtermann) 12/4/07
- Kodiak Daily Mirror. Where's the crab? Group works to form enhancement program to restore crab stocks in Kodiak Island waters, , 12/5/07
- Leroux, Celeste, Alutiiq Pride Shellfish Hatchery hosts open house, Seward Phoenix Log, 3/29/07
- Newman, Kelly, Sound study explores orca behavior. Juneau Empire 2/6/07, Anchorage Daily News 2/5/07, Far North Science 2/13/07
- RaLonde, Ray, Mussel Safety, Laine Welch's Fish Radio, 9/21/07
- Schneider, Doug, Marine Advisory Agent Crashes Shellfish Hurdles, Aquanet.com 12/17/07 (reprinted from Web feature written for UAF Marketing and Communications in 2005
- Steiner, Rick, Lacking studies, state still disputes polar bear 'doom', Anchorage Daily News 1/27/08; Arizona Daily Star 2/3/08
- Steiner, Rick, S.F. Bay oil spill illuminates flaws in response plans, Sacramento Bee, 11/16/07
- Steiner, Rick, Study shows Kivalina's relocation choice safe, Alaska Journal of Commerce, 7/8/07
- Stephan, Jeff, Experts to present on crab program Tuesday, Kodiak Daily Mirror and KMXT-Kodiak, 10/29/07
- Welch, Laine, Fishing's "year in review" for 2007, Most promising fish story: The Alaska king crab enhancement project, which aims to revitalize stocks at Kodiak and St. Paul, Fish Factor radio program, 12/29/07, Anchorage Daily News, 1/2/08

Octopus Ink

- Brewer, Reid. 2007 "Octopus Ink" columns written for the following newspapers: Dutch Harbor Fisherman, Bristol Bay Times, Cordova Times, The Tundra Drums (YK delta), The Fisherman's News, and Alaska Fish Notes.
- 16 August 2007. Ribbon Seal in Unalaska
- 23 August 2007. COASST training engages local birders and beachwalkers
- 13 September 2007. Four rare beaked whales wash up in Atka
- 20 September 2007. Humpback whale stranding in Unalaska Bay
- 18 January 2008. Mercury in Alaska's Fish
- 18 February 2008. Unalaska NOSB team rides again
- 27 March 2008. The future of research in the Aleutian Islands
- 27 March 2008. Selendang Ayu NRDA seeking input from local stakeholders
- 24 April 2008. Demystifying science: wintering diet of Steller Sea Lions
- 28 May 2008. Unalaska cleanup volunteers plunge to new low
- 19 June 2008. Food and Water Security issues for a changing climate in Alaska

Alaska Sea Grant Awards and Honors

FEBRUARY 2007-JANUARY 2008

PUBLICATIONS

- Gold Award, 2008 Alaska Coastal Calendar, 2008 Association for Communication Excellence competition, 4 color popular publication category
- First Place, Field Guide to Sharks, Skates, and Ratfish of Alaska, 2008 National Association of Government Communicators, soft/hardcover, over 50 p. book category
- First Place, Clean Boating, Alaska Seas & Coasts vol. 4, 2008 Alaska Professional Communicators, manuals and handbooks category
- Silver Award, 2008 Tide Tables cover, 2008 Association for Communication Excellence competition, Graphic design category
- Silver Award, Field Guide to Sharks, Skates, and Ratfish of Alaska, 2008 Association for Communication Excellence competition, 4 color popular publication category
- Third Place, 2008 Alaska Coastal Calendar, 2008 National Association of Government Communicators competition, calendar category

MARINE ADVISORY PROGRAM

- 2007 Pacific Region Superior Outreach Award, Alaska Sea Grant Marine Advisory Program Alaska Fishing Business Assistance Program, project team member, West Coast Sea Grant Extension Program Leaders
- 2008 Macy Award from the Institute of Food Technologists, Minnesota Section, to recognize outstanding food technology transfer, Don Kramer.
- Elizabeth Stier Humanitarian Achievement Award, for outreach work in Alaska, from the Institute of Food Technologists. Don Kramer
- IFT Fellow, the highest distinction that IFT members can achieve based on leadership and service. Don Kramer

Alaska Sea Grant Collaborative Partnerships

FEBRUARY 2007-JANUARY 2008

FEDERAL PARTNERS

Centers for Disease Control, National Institute for Occupational Safety and Health

Consortium for Oceanographic Research and Education (CORE)
Department of Agriculture, Cooperative State Research, Education
Department of Agriculture, Trade Adjustment Assistance Program

Department of Commerce, North Pacific Research Board

Department of Commerce, Pacific States Marine Fisheries Commission

Department of Education

Department of the Interior, Fish and Wildlife Service

Department of the Interior, Geological Survey

Department of the Interior, Minerals Management Service

Department of the Interior, National Park Service

Environmental Protection Agency

Exxon Valdez Trustee Council

Food and Drug Administration

National Museum of Natural History, Smithsonian Institution, Arctic Studies Center

National Oceanographic Partnership Program, Alaska Ocean Observing System

National Science Foundation, Alaska Native Science Commission National Science Foundation, Arctic Research Commission of the United States

NOAA Alaska Fisheries Science Center

NOAA Alaska Regional Marine Research Program

NOAA Coastal Ocean Program Environmental Entrepreneurship Program for Minority Serving Institutions

NOAA Fisheries

NOAA Kachemak Bay National Estuarine Research Reserve

NOAA National Ocean Service

NOAA National Tsunami Hazard Mitigation Program

NOAA North Pacific Fishery Management Council

NOAA Northeast Fisheries Science Center

NOAA West Coast and Alaska Tsunami Warning Center

REGIONAL PARTNERS

Arctic Yukon Kuskokwim Sustainable Salmon Initiative

Barrow Arctic Science Consortium

Native American Fish and Wildlife Society

Qawalangin Tribe of Unalaska

Southeast Alaska Inter-Tribal Fish and Wildlife Commission

Southern Southeast Regional Aquaculture Association

Southwest Alaska Municipal Conference

The Alaska Sea Otter and Steller Sea Lion Commission

Tlingit and Haida Indian Tribes of Alaska

Western Regional Aquaculture Center

LOCAL AND STATE PARTNERS

Alaska Coastal Management Program, Division of Alaska Coastal Zone Management

Alaska Commercial Fisheries Entry Commission

Alaska Commercial Fishing and Agriculture Bank

Alaska Cooperative Extension Service

Alaska Department of Commerce, Community and Economic Development

Alaska Department of Education and Early Development

Alaska Department of Environmental Conservation

Alaska Department of Fish and Game

Alaska Department of Labor, Business Partnerships, Alaska Seafood Processing Leadership Institute

Alaska Department of Natural Resources

Alaska Department of Transportation

Alaska Division of Emergency Services

Alaska Division of Homeland Security and Emergency Management

Alaska Fisheries Revitalization Strategy

Alaska Office of Boating Safety

Alaska Seafood Marketing Institute

Aleutians East Borough

Alutiiq Museum

Alutiiq Pride Shellfish Hatchery

Anchorage Economic Development Council

Anchorage International Airport

Anchorage School District

Bristol Bay Borough

City of Craig

City of Dillingham

City of Fairbanks

City of Unalaska

Cordova High School

Dillingham Planning Commission

Fairbanks North Star Borough School District

Juneau School District

Kodiak Advisory Committee

Kodiak Chamber of Commerce

Lower Kuskokwim School District

Matanuska-Susitna Borough School District

Museum of the Aleutians

Nelson Lagoon Village

North Slope Borough

Port of Valdez

Pratt Museum

Prince of Wales Island Citizen's Advisory Council

Prince William Sound Science Center

The Imaginarium Science Discovery Center

Unalaska City School District

Unalaska Parks, Culture and Recreation Center

Village of Quinhagak

NGO PARTNERS

Alaska SeaLife Center

Alaska Center for the Environment

Alaska Community Action on Toxics

Alaska Conservation Foundation

Alaska Conservation Solutions

Alaska Fisheries Development Foundation

Alaska Fishing Industry Relief Mission

Alaska Forum for Environmental Responsibility

Alaska Groundfish Data Bank

Alaska Association of Harbormasters and Port Administrators

Alaska Marine Conservation Council

Alaska Marine Safety Education Association

Alaska Geographic Association

Alaska Natural Resource and Outdoor Education Association

Alaska Oceans Network

Partnerships (continued)

Alaska Oceans Program

Alaska Science Consortium

Alaska Small Business Development Center

Alaska Underwater Science Foundation

Alaska Wildlife Alliance

Aldo Leopold Wilderness Research Institute

Bristol Bay Native Association Bristol Bay Native Corporation

Bristol Bay Science and Research Institute

Center for Alaskan Coastal Studies Center for Marine Conservation

Chenega Corporation

Coastal Observation and Seabird Survey Team

Cook InletKeeper
Discovery Southeast

Ecotrust

Greenpeace USA Inc.

Gulf of Alaska Coastal Communities Coalition

Marine Conservation Alliance Foundation

Native American Bank The Nature Conservancy

North Gulf Oceanic Society

Ocean Advocates

Oceana

OceansAlaska

Oceans Blue Program

Pacific Environment

Prince William Sound Keeper

Pribilof Island Collaborative

Shipping Safety Partnership

Southeast Alaska Rainforest Wild

INTERNATIONAL PARTNERS

Bedford Institute of Oceanography (Canada)

Bermuda Biological Station for Research, (Bermuda)

Bodø University (Norway)

Commander Islands Nature Protection Association (Russia)

Danish Institute for Fisheries Research (Denmark) Ecole des Mines de Paris, Centre de Geostatistic (France)

Fisheries and Oceans Canada

Food and Agriculture Organization (United Nations)

French Research Institute for Exploitation of the Sea

International Bering Sea Forum (U.S.)

International Bird Rescue and Research Center (U.S)

International Pacific Halibut Commission (U.S)

International Union for the Conservation of Nature and Natural

Resources (Switzerland)

Kamchatka Institute of Ecology and Natural Resource Management

(Russia

Marine Research Institute (Norway)

North Pacific Groundfish Observer Program (Russia) North Pacific Marine Science Organization (U.S.)

Northwest Atlantic Fisheries Centre (Canada)

Pacific Biological Station (Canada)

Pacific Fisheries Research Center (Russia)

Pacific Salmon Commission

Petroleum Environmental Network (China)

Queen's University (Canada)

Russian Academy of Sciences, Zoological Institute (Russia)

Sakhalin Environment Watch (Russia) Simon Fraser University (Canada)

University of British Columbia Marine Mammal Research Unit

(Canada)

University of Cape Town (S. Africa)

World Wildlife Fund (U.S.)

INDUSTRY/BUSINESS PARTNERS

Al-Lou's Fish

Alaska Agua Farms

Alaska Charter Association

Alaska Crab Coalition

Alaska Draggers Association

Alaska Independent Tenderman's Association

Alaska Oil & Gas Association

Alaska Shellfish Growers Association

Alaska Tide Book Company

Aleut Corporation

Aleutian Pribilof Island Association

Aleutian Pribilof Island Community Development Association

Alutiiq Pride Shellfish Hatchery

Amazon booksellers

At-sea Processors Association

Barnes and Noble booksellers

Bering Sea Fishermen's Association

Boat U.S.

ВP

Bristol Bay Economic Development Corporation

Calendar Club, L.L.C.

Calista Corporation

Central Bering Sea Fishermen's Association

Coastal Villages Region Fund (Western Alaska CDQ)

Cook Inlet Aquaculture Association

Cook Inlet Books

Cook Inlet Salmon Branding

Cordova District Fishermen United

Dancing Salmon Fisheries

Digital Observer, Inc.

Douglas Island Pink and Chum Inc.

EDAW Inc.

Englund Marine Supply Fish Expo Inc.

Enviro-Pak Smoking Ovens

Favco Seafood

Fleet Refrigeration

Graystar Pacific Seafood Ltd.

Great Alaskan Seafood Company

Hearthside Books

Hydroacoustic Technology, Inc. Iceberg Seafood Company

iceberg Searood Company

Icicle Seafoods Inc. Indian Valley Meats

Jellett Biotek Ltd.

Joma Wild Seafoods

Joycraft Marine Safety Equipment

Kachemak Shellfish Mariculture Association

Kenai Fjords Tours

Kenai River Professional Guide Association

Kenai River Sportfishing Association

Kodiak ComFish Alaska

Partnerships (continued)

Kodiak Fish Company Kruzof Fisheries LLC

Laine Welch, Alaska Fisheries Report

LGL Limited

Made in Alaska

McDowell Group

Mikunda, Cottrell & Co.

National Food Products Association

New Bedford Seafood Consulting New England Trawl Systems

Nor'westerly Food Technology Services

North Pacific Processors Inc.

Northern Economics Inc.

Norton Sound Economic Development Corporation

Ocean Beauty Seafoods Inc.

Olga-Moser Bay Seafood Producers Alliance

Orca Book and Sound

Organizational Learning Tools Inc.

Pacific Seafood Processors Association

Pacific Star Seafoods

Peter Pan Seafoods Inc.

Petersburg Vessel Owners Association

Polaris Strategic Consulting (M. Matthews)

Prince of Wales Island Community Holding Corporation

Prince William Sound Aquaculture Corporation

PURAC America Inc.

Ray Troll, Trollart.com

Resource Analysts International

Resource Decision Support (M. Merritt)

Resourcecon, Inc.

Roseann Dunham Bookkeeping

Royal Dutch Shell Oil Co.

Sea Crest Seafood Market Developers

SeaFisk Consulting

Seafood HACCP Alliance

Silver Lining Seafood

Sitka Sound Seafoods

Solomon Gulch Hatchery

Sound Metrics Corp.

Southeast Alaska Seiners Association

Taku Smokeries

TDX Corporation

Title Wave Books

Trident Seafoods

Trillium Technology Solutions, LLC

Unalaska Native Fisherman Association

UniSea Inc.

United Catcher Boats

United Fishermen of Alaska

United Fishermen's Marketing Association

Wells Fargo Bank

West Marine

Wild Salmon Direct

Wizard Works

Wrangell Insurance Center

Yukon Delta Fisheries Development Association

Yukon River Drainage Fisheries Association

ACADEMIC INSTITUTION PARTNERS

Alaska Pacific University Alaska Vocational Technical Education Center California State University

Clatsop Community College

Cornell University School of Ornithology

CyberLynx

Educational Training Co.

Hatfield Marine Science Center

Indiana State University

Interior Distance Education of Alaska

Kenai Peninsula College

Monterey Bay Aquarium

Northwestern Alaska Career and Technical Center

Oregon Coast Aquarium

Oregon State University

Pacific Fisheries Technologists

Prince William Sound Community College

Raven Correspondence School

Scripps Institution of Oceanography

Seattle Aquarium

Seattle Community College

Sheldon Jackson College

Texas A&M University

University of Alaska

University of Alaska Anchorage

University of Alaska Fairbanks

University of Alaska Southeast

University of California

University of Hawaii

University of Minnesota, Center for Farm Financial Management

University of Puget Sound

University of Rhode Island

University of Washington

University of Wisconsin

Utah State University

Virginia Institute of Marine Science

Washington State University Extension

Western Washington University

Woods Hole Oceanographic Institution

SEA GRANT PROGRAM PARTNERS

California Sea Grant

Hawaii Sea Grant

Oregon Sea Grant

Rhode Island Sea Grant

Texas A&M Sea Grant

Washington Sea Grant

Virginia Sea Grant

OTHER PARTNERS

American Academy of Underwater Sciences

American Fisheries Society

Arctic Ocean Diversity (ArcOD) Census of Marine Life

Ecological Society of America

National Association of Government Communicators

National Fish and Wildlife Foundation

Organization of Wildlife Planners

Petersburg Marine Mammal Center

Pollock Conservation Cooperative Research Center

State of Louisiana

Cover: Sockeye salmon in Power Creek near Cordova, Alaska. Photo by Thomas Kline.