

## FY20 City of Unalaska Community Support Grant Application Review Summary Sheet

Organization Name: University of Alaska Fairbanks – Alaska Sea Grant

UAFASG is requesting a first time community support grant of \$13,508 for FY20 to support salary including benefits for the College of Fisheries and Ocean Sciences Marine Advisory Program Agent, Melissa Good whom is currently located in Unalaska/Dutch Harbor.

FY19 Award	Amounts	FY20 Request	Amounts
		Personnel – Salaries (1 Month) – Melissa Good	\$ 10,359.00
		Personnel – Benefits (1 Month) – Melissa Good	\$ 3,202.00
<b>Total FY19 Award</b>	<b>\$</b>	<b>Total FY20 Request</b>	<b>\$ 13,508.00</b>

### Application Highlights

- UAF Alaska Sea Grant is one college program out of 33 Sea Grants nationwide. This statewide program is headquartered at the University of Alaska Fairbanks. Their mission is to enhance the wise use and conservation of Alaska’s marine, coastal, and watershed resources, through research, education and extension.
- UAF Alaska Sea Grant is an integrated program of communication, education, Marine Advisory outreach, and research that engages partners and functions as a creator of knowledge, a convener of diverse stakeholder, and a trusted provider of information. They strive to innovate and adapt critical and changing coastal and marine issues within the state of Alaska.
- For more than 45 years, Alaska Sea Grant has served Alaska from offices located in coastal communities across the state as well as on the main University of Alaska Fairbanks Campus. They increase their effectiveness and reach by collaborating with and building networks among people, communities, and organizations.
- Alaska Sea Grants has four main focus areas: Healthy Coasts, Fisheries and Seafood, Coastal Resilience and Economy, and Environmental Literacy and Workforce Development.
- Alaska Sea Grant provides leadership in K-12 marine and aquatic education statewide at all levels; and through public education in coastal communities. Programs are designed to inform, educate, and train community members as citizens and help prepare the current and next generation of the workforce involved with the nation’s coastal resources, communities, and economies.

### Application Findings/Other Information:

- The Unalaska City Council requested that UAF send in an application requesting funds for FY20 instead of submitting a letter of request. UAF’s application differs from other non-profit organization due to this not being treated as a non-profit.
- This application is strictly only for support in the categories of Salaries and Benefits.

**CITY OF UNALASKA FY20 COMMUNITY SUPPORT  
APPLICATION TITLE PAGE**

ORGANIZATION: \_\_\_\_\_ FORMED: \_\_\_\_\_  
MAILING ADDRESS: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
CHIEF EXECUTIVE'S NAME & TITLE: \_\_\_\_\_  
CONTACT'S NAME & TITLE (if different): \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_  
EMAIL: \_\_\_\_\_ AMOUNT OF FY19 AWARD: \$ \_\_\_\_\_

**IF REQUESTING MORE FOR FY20 THAN AWARDED IN FY19 BRIEFLY EXPLAIN WHY:**

Organization's Fiscal Year: From \_\_\_\_\_ to \_\_\_\_\_

FY20 REQUEST: \$ \_\_\_\_\_ LOCAL PROGRAM BUDGET TOTAL: \$ \_\_\_\_\_

**SUMMARY OF FY20 SOURCES OF INCOME:**

Grants	City _____%	Fees/Earned Income _____%
	State _____%	Fundraising _____%
	Federal _____%	In Kind _____%
	Other Grants _____%	Other Income _____%

**Please list the primary budget categories the City will be funding (do not include sub items):**

**Did applicant attend a Grant Help Workshop in the last 3 years? Yes \_\_\_ No \_\_\_**

**\*IRS Non Profit Status: Is the organization's IRS filing current? Yes \_\_\_ No \_\_\_**

**\*Alaska Incorporation Status: Is the organization's State filing current? Yes \_\_\_ No \_\_\_**

By signing below, the chair/president of the Board of Directors and the Director/Executive acknowledge all contents of this application have been reviewed and approved by the Board of Directors. The signatures further indicate that all contents of the City of Unalaska Community Support FY20 Application packet and the Community Support Guidelines, both approved by the Unalaska City Council, have also been reviewed and will be followed by the organization.

\_\_\_\_\_  
Chair/President, Board of Directors

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director/Executive Director/General Manager

\_\_\_\_\_  
Date

## **I. EXECUTIVE SUMMARY**

### **A. Executive Summary**

The Alaska Sea Grant College Program, one of 33 Sea Grant programs nationwide, is a statewide program headquartered at the University of Alaska Fairbanks. Our mission is to enhance the wise use and conservation of Alaska’s marine, coastal, and watershed resources, through research, education, and extension.

Alaska Sea Grant was established in 1970 and is the only Sea Grant program located in the Arctic. We are a state-federal partnership with the majority of federal funding coming from the National Oceanic and Atmospheric Administration (NOAA). State funding comes from the University of Alaska Fairbanks, through the College of Fisheries and Ocean Sciences. Grants and donations from state, federal, and local governments; tribes; industry; organizations; and program income from training and meeting fees and publication sales enhance Alaska Sea Grant’s funding.

Alaska Sea Grant is an integrated program of communication, education, Marine Advisory outreach, and research that engages partners and functions as a creator of knowledge, a convener of diverse stakeholders, and a trusted provider of information. We strive to innovate and adapt as we address critical and changing coastal and marine issues in our state. We work to enhance the wise use and conservation of our marine, coastal, and watershed resources. Alaska Sea Grant’s strength is in the trust that Alaskans have in our work and those who carry it out including Marine Advisory faculty, communications and administrative staff, researchers and students funded by Sea Grant, and a diverse and active group of partners and advisors. For more than 45 years, we have served Alaska from offices located in coastal communities across the state as well as on the main University of Alaska Fairbanks campus. We increase our effectiveness and reach by collaborating with and building networks among people, communities, and organizations.

## **II. ORGANIZATION INFORMATION**

### **B. Organization Programming:**

Alaska Sea Grant is a partnership between NOAA and the University of Alaska Fairbanks. Sea Grant has been working in Alaska for over 46 years supporting healthy coastal resources, strong economies and vibrant communities through research, education, and outreach via 12 Marine Advisory agents who live and work in eight coastal communities. Our program is adaptive to meet the growing needs of the Alaska and the communities in which we serve. Some examples of recent programs include:

#### *Enhancing Coastal Economies*

- The FishBiz Project provides training, technical assistance and an online portal of tools for commercial fishermen looking to enter the business, diversify and expand or exit the industry.
- This year’s online “Introduction to Direct Marketing Your Seafood” class brought together 20 participants from 16 communities across Alaska.

- Alaska Sea Grant has invested over \$2.5 million in research and outreach support in Alaska’s growing mariculture industry over the last 10 years, including the potential for growing seaweed as a new Alaska industry.
- Seafood product development by Alaska Sea Grant Marine Advisory specialists, supported by industry grants, has led to new uses for pollock skins and identified temperature-freezing requirements for new salmon products.

*Training Alaska’s Workforce*

- Seafood processing training offered by Alaska Sea Grant meets the industries identified needs. More than 250 seafood processors from 40 companies statewide participated in training in 2016, based at the Kodiak Seafood and Marine Science Center, in leadership, quality standards and product development.

- The Alaska Young Fishermen’s Summit was held for the sixth time in Juneau in 2016. Over 350 young, professional commercial fishermen have attended the summits. Of those, 95% are still fishing, over 70% have attended or participated in the regulatory process and over 60% have joined or started an industry association.

- The Alaska Sea Grant State Fellowship, the Sea Grant Knauss Fellowship and graduate student traineeships all build the next generation of Alaska resource managers. Three Alaska State Fellows, two Knauss Fellows and 18 graduate students are currently working with Alaska Sea Grant support.

*Research Contributes to Community Priorities*

- The project “Graying of the Fleet: Understanding the Problem and Developing Alternatives” examines the fisheries in Kodiak and Bristol Bay, identifying barriers to next generation entry to inform public policy and programs. • The AKCRRAB program identifies how red and blue king crab can be raised to juvenile stages in the hatchery, and potentially released to enhance the wild population.

*Linking Science with Communities and K–12 students*

- Alaska Sea Grant’s Alaska Seas and Watersheds curriculum school grant program supports seas and watershed celebrations and teacher education in 19 communities including Juneau, Anchorage, Dillingham, Petersburg, Cordova, Unalaska, Yakutat and others. Last year 1,600 K–12 students and 133 educators learned from Alaska Sea Grant’s marine literacy programs. All 3,750 Anchorage 4th graders learn about their local watershed each year using the Alaska Sea Grant curriculum.

- Local residents in Cordova, Unalaska, Dillingham, Petersburg, Kodiak and Nome connected with researchers working in their region through Alaska Sea Grant–sponsored community science lectures and conferences. More than 1,000 adults attend these lectures each year.

- Alaska Sea Grant Marine Advisory agents coordinate and support coastal community monitoring programs in the state, investigating trends in marine mammal health, paralytic

shellfish toxins and potential range extension of invasive marine species.

### **C. Organization History and Experience**

Alaska Sea Grant is a partnership between NOAA and the University of Alaska Fairbanks. Sea Grant has been working in Alaska for over 46 years supporting healthy coastal resources, strong economies and vibrant communities through research, education, and outreach via 12 Marine Advisory agents who live and work in eight coastal communities.

Alaska Sea Grant has four main focus areas: healthy coasts, fisheries and seafood, coastal resilience and economy, and environmental literacy and workforce development.

The State of Alaska manages thousands of square miles of coastal ecosystems that support recreational, commercial and subsistence activities. Alaska Sea Grant helps residents, natural resource managers, and businesses protect and restore healthy coastal habitats for continued ecosystem and public well-being. Sea Grant is a leader in developing innovative technologies for all sectors of the seafood industry, including fishing, aquaculture, seafood processing and consumer safety. Alaska Sea Grant supports sustainable fisheries and aquaculture through applied research and extension.

More than 70 percent of Alaska's 700,000 residents live along the coast. Alaska Sea Grant scientists and Marine Advisory Program agents research coastal processes, hazards, energy sources, and more. Communities seek our expertise to sustain vibrant coastal economies and help them respond and adapt to environmental change.

Alaska Sea Grant provides leadership in K-12 marine and aquatic education statewide at all levels; and through public education in coastal communities. Programs are designed to inform, educate, and train community members as citizens and help prepare the current and next generation of the workforce involved with our nation's coastal resources, communities, and economies.

#### *How we do it:*

##### *Research*

Alaska Sea Grant conducts and funds scientific research that enhances the sustainable use and conservation of our coastal and marine resources.

Alaska Sea Grant supports a number of formal, peer-reviewed research projects through a biennial call for proposals. Through each RFP, we seek creative and innovative research proposals in the natural and social sciences that focus on the environmental and economic viability of Alaska's coastal communities.

Each proposal must provide an engagement plan that describes how broader audiences will engage with and use the project results.

##### *Marine Advisory Outreach*

Alaska Sea Grant’s Marine Advisory agents work with Alaskans to sustain healthy coastal economies, communities and ecosystems. They do this through collaborative projects, classes, workshops, training, applied research, and other methods of technical assistance.

### *Education*

Alaska Sea Grant employs a variety of education strategies to promote environmental literacy statewide. National Sea Grant defines an environmentally literate person as “someone who has a fundamental understanding of the systems of the natural world, the relationships and interactions between the living and nonliving environment, and the ability to understand and utilize scientific evidence to make informed decisions regarding environmental issues.”

In Alaska, the context of environmental literacy is a diverse population with varying degrees of access to educational resources facing the challenges of a dynamic and rapidly changing natural environment. The need for current, relevant information gleaned from research and the long-term perspectives of local knowledge is becoming more urgent for Alaskans. Environmentally literate citizens able to participate in public policy decisions that affect Alaska’s coastal resources are crucial.

Alaska Sea Grant also works with, and invests in, K-12 school district administrators, teachers, students to promote environmental literacy in Alaska’s schools.

## **D. Community Relevance**

Alaska Sea Grant works closely with many organizations, entities, and individuals of the Aleutian-Pribilof Region through the locally staffed Marine Advisory Program Agent Melissa Good to meet the needs of the region in accomplishing the broader mission of Alaska Sea Grant. There are no other organizations that offer these programs within the region.

## **E. Program/Service Delivery**

### *Our mission*

Alaska Sea Grant’s mission is to enhance the wise use and conservation of Alaska’s marine, coastal and watershed resources through research, education and extension.

### *Our vision*

Alaska will sustain its vibrant marine, coastal, and watershed ecosystems, with strong coastal communities and people who make decisions using science-based, local and indigenous knowledge, for social and economic benefit.

### *Core values*

1. Service — Accessible and responsive
2. Science-based — Support research and connect people with science
3. Education — Prioritize education and training to inform stewardship, support industries, and build and train workforces
4. Collaborative — Build partnerships to have greater impact meeting shared goals
5. Forward thinking, adaptable, practical — Develop capacity in businesses and communities to anticipate and adapt to change

The Marine Advisory Program Agent that we are seeking salary for is a faculty member of the University of Alaska Fairbanks within the College of Fisheries and Ocean Science Alaska Sea Grant program. This agent has a bipartite role that includes teaching, research, and service.

The Marine Advisory Program (MAP) is a university-based statewide program designed to help Alaskans with the practical use and conservation of the state's marine and freshwater resources. MAP is based at the University of Alaska Fairbanks (UAF) College of Fisheries and Ocean Sciences.

Through classes, workshops, trainings and other resources, MAP offers Alaskans technical assistance, marine education, applied research and other expert advice on how residents can sustain healthy coastal economies, communities and ecosystems.

MAP has about a dozen UAF faculty members and staff living in coastal communities from Ketchikan to Nome. MAP agents are considered honest brokers of scientific information to support community needs. Agents translate complex information for non-scientific audiences while providing information, free of advocacy, to residents to address local needs.

The Marine Advisory Program works to:

- Assist coastal residents to diversify their community's economic base through involvement in ventures such as aquaculture, marine recreation and tourism, seafood processing, and direct marketing of Alaska seafood.
- Enhance the value of the commercial fishing, shellfish mariculture, seaweed farming, and seafood processing through training and technical assistance.
- Contribute to the information base of Alaskans who are making decisions affecting the conservation of the state's marine resources, or who depend on them for traditional, cultural, recreational or nutritional sustenance.
- Funding for the Marine Advisory Program comes from the State of Alaska and the National Sea Grant College Program, a network of 33 university-based Sea Grant programs in every coastal and Great Lakes state, Puerto Rico and Guam.

#### **F. Director/Staff/Volunteer Training**

The local Marine Advisory Program Agent receives professional training through the University of Alaska Fairbanks College of Fisheries and Ocean Sciences.

#### **G. Director and Staff Evaluation**

The University of Alaska Fairbanks (UAF) College of Fisheries and Ocean Sciences Dean evaluates the local Marine Advisory Program Agent annually based upon the fiscal year workload plan.

#### **H. Governing Body/Board**

Most relevant to this proposal, is the Alaska Sea Grant Advisory Committee. Alaska Sea Grant created a dedicated Advisory Committee in 2003, composed of individuals from an array of stakeholder groups representing all regions of the state.

The Advisory Committee: provides valuable guidance in identifying state priorities for research, education, and extension within the subset of National Sea Grant focus areas participates in strategic planning efforts plays an integral part in the review of research proposals.

**Current members:**

Chair: *Lea Klingert*, President, Commercial Fishing and Agriculture Bank  
Assistant Chair: *Jeff Kauffman*, Vice President, Central Bering Sea Fishermen's Association  
*James Balsiger*, Alaska Regional Administrator, NOAA National Marine Fisheries Service  
*Kaja Brix*, Arctic Program Director, NOAA Fisheries Alaska Region (Alternate for James Balsiger)  
*Diana Evans*, Deputy Director, North Pacific Fishery Management Council  
*Nicole Kimball*, Vice President, Pacific Seafood Processors Association  
*Molly McCammon*, Executive Director, Alaska Ocean Observing System  
*Vera Metcalf*, Director, Eskimo Walrus Commission at Kawerak, Inc.  
*Kris Norosz*, Petersburg  
*Amanda Painter*, Operations Manager, Allen Marine Tours  
*Dave Reggiani*, aquaculture expert, Prince William Sound Aquaculture Corporation  
*Alice Ruby*, Mayor, Dillingham  
*Ralph Samuels*, Vice President of Government and Community Relations, Princess Cruises/Holland America  
*Fred Schlutt, Jr.*, Vice Provost for Outreach & Engagement, and Director, Cooperative Extension Service, University of Alaska Fairbanks  
*Carven Scott*, Regional Director, NOAA National Weather Service  
*Chris Siddon*, Marine Fisheries Scientist, Alaska Department of Fish and Game  
*Greg Siekaniec*, Regional Director for Alaska, U.S. Fish and Wildlife Service  
*Dee Williams*, Deputy Regional Director, US Geological Survey

**I. Program Evaluation**

Alaska Sea Grant objectives and goals are annually evaluated by UAF and the National Sea Grant Program.

**III. PROPOSAL**

**J. Need**

In 2018, the Unalaska City Council requested that Alaska Sea Grant submit a proposal during the Community Support Application process rather than submitting a Letter of Request for support for the locally placed University of Alaska Fairbanks College of Fisheries and Ocean Sciences Alaska Sea Grant Marine Advisory Program Agent for the Aleutian Pribilof Region.

We are requesting one-month of salary plus benefits for the University of Alaska Fairbanks College of Fisheries and Ocean Sciences Marine Advisory Program Agent located in Unalaska/Dutch Harbor Melissa Good. This position continues to be supported by National Sea Grant federal grant funds; however, funding from both federal sources and state continues to be unstable. Funding from the City of Unalaska for a month of salary plus



benefits for the local UAF/MAP agent position is a strong indicator of community support and excellent leverage in convincing UAF to continue to support this position.

Successful funding of this position will allow the MAP agent to continue to offer the unique services that we can provide. This position meets UAF requirements and the needs of the region through three broad objectives: *teaching, service, and research.*

### **K. Target Populations**

The UAF Alaska Sea Grant Marine Advisory Program Agent in Unalaska/Dutch Harbor serves local, regional, and transient residents of the Aleutian-Pribilof Region.

### **L. Proposal Description/Proposed Project**

Successful funding of this position will allow the MAP agent to continue to offer the unique services that we can provide year-round. This position meets UAF requirements and the needs of the region through three broad objectives: *teaching, service, and research.*

#### *Teaching:*

Teaching extension work is multifaceted, as it includes making arrangements for locally taught credited courses, organizing workshops and scientific presentations, in addition to teaching non-credited and credited classes within the region, providing instructional activities and giving community oriented and scientific presentations.

This position not only serves as Marine Advisory Program Agent, but also as the Coordinator of the Aleutian-Pribilof Center, facilitating locally taught UAF college credited courses in Unalaska/Dutch Harbor and St Paul Island. This year we will be working closely with staff and faculty at the Bristol Bay Campus and the Alaska based consulting organization Agnew::Beck to conduct an educational needs assessment to better serve the region. In addition, we are actively developing a maritime pathways occupational endorsement. This endorsement will build upon courses that are currently being offered by Good in cold-water safety and survival and scuba diving to meet the demands of the maritime industries. We have purchased ten sets of dive gear, 20 scuba tanks, and a compressor and have began offering introductory scuba diving classes with the plans to develop the program to focus on marine/cold water safety and marine science orientated courses.

This position also works with the Unalaska City School District (UCSD) to co-coach the Unalaska National Ocean Science Bowl team. This program engages students with marine science professionals, develops skills in research, academic writing, and public presentations, and introduces them to complex topics that are often not a focus of their school curriculum. There is also a high level of ocean science engagement with these students that broadens their view of their local environment. Students participating in this program conduct marine mammal observations and necropsies, monitor for invasive species using PlateWatch protocols developed by the Smithsonian Environmental Research Center, learn about the resources available for weather forecasting, and other topics relevant to the years' theme.

The largest UCSD program of the year that we coordinate is Sea Week. The main event during this time is Dockside Discovery Day, a full day of learning and hand-on interactions at the docks. Past days events have included Unalaska City Harbor Masters introducing the Kids Don't Float program, hands-on observations of marine life, a tour of the seafood processing plant UniSea Inc., shoreside explorations of the birds and plants, archeological discoveries of ancient Aleut hunting and fishing practice and artifacts, seaweed pressing, and fisherman games. The teachers and students are very enthusiastic about this program and continue to support it annually. This year we had over 200 participants, reaching students in 1<sup>st</sup>-6<sup>th</sup> grades. In the future, we would like to continue to build additional classroom small sessions with each grade level that meet UCSD curriculum standards and objectives, helping teachers' meet required objectives, while keeping the lessons place-based and locally oriented.

In addition to these, we partner with the Aleut Tribe of St Paul to teach a weeklong summer science camp on St Paul Island. The camp theme for 2018 (the 9th year of the camp) recognized marine scientist and Pribilof Islands past camp instructor Michelle Ridgway, who passed away January 2018. We are just beginning to talk about offering a 2019 summer science camp.

A novel project that we have played a key role in has been the development of a traveling museum exhibit "Underwater Forests of the Aleutian Islands". This exhibit is being housed by the Museum of the Aleutians (MOTA) and has been on display in Unalaska/Dutch Harbor, St Paul, and Adak, where over 1000 people have viewed it. It was last up at Alaska Maritime National Wildlife Refuge Alaska Islands and Oceans Center in Homer and is currently being displayed at the Alutiiq Museum. We have secured funding for Good and the MOTA Director to further travel with the exhibit to Aleutian Island (AI) communities of Nikolski, Atka, and Akutan. Good will travel with the exhibit to each of these communities to give community presentations and work with local school groups. We also have plans for the exhibit to travel to the Museum of the North in Fairbanks, San Diego, and to Anchorage to be displayed at the Aleut Culture Camp put on by the Aleutian Pribilof Islands Association (APIA).

Good will continue to work with researchers traveling through the area to organize and host seminars in Unalaska to inform local residents of current research within the Aleutian Islands and Bering Sea. We have close connections with researchers within UAF College of Fisheries and Ocean Sciences, R/V Sikuliaq, NMFS, NOAA, and many other academic organizations. These efforts are building stronger relationships with the research vessels, including the Sikuliaq, that frequently travel through the Bering Sea and Aleutian Islands. Plans are in place to continue to bring the vessels and the science to the community.

Working with USCG, NOAA National Ocean Services, Nuka Research, Aleutian Bering Sea Islands Landscape Conservation Cooperative, and the Aleutian Pribilof Islands Association we have recently developed an Aleutian Islands Waterway Safety Committee to bring together stakeholders in a proactive forum to determine ways to reduce risk, prevent accidents, and foster collaboration among a diverse set of waterway users in a non-regulatory body for the Aleutian Islands Region. Good currently holds an alternate seat on this

committee and is working with the group to develop protocols for marine mammal interactions.

#### *Student Advising and University Services*

This year we provided academic advising to degree and non-degree seeking students through the Aleutian-Pribilof Center, this included students admitted into degree programs or interested in being admitted into degree programs. Reaching out through KUCB and social media has increased the number of students seeking assistance locally, and we are starting to have more people reaching out for academic services. In addition, we are working with the Unalaska City School District to offer dual credit courses for high school students.

#### *Research, Scholarly Activity, and other Creative Activities*

We anticipate marine mammal response to continue to be significant in Unalaska. Over the past reporting period, Good responded to a significant number marine mammal stranding events, including: six deceased northern Sea Otters, two deceased Steller Sea Lions, four deceased fur seals and one live fur seal, two deceased humpback whale, two live entangled humpback whales, one deceased grey whale, one deceased orca, one harbor seal, and over 50 reports of ringed seals (which are not native to the area). The extremely high observation of ringed seals hauled out near Unalaska/Dutch Harbor initiated an active response by the Marine Mammal Stranding Network including local lead Good. Many of these seals were observed to have skin lesions, poor body conditions, and extremely high parasite loads.

Sea otter morphometrics and biological samples were collected and sent to the US Fish and Wildlife Service Marine Mammal Management division. Sea lion, fur seal, humpback, and ringed seal morphometrics and biological samples were added to the National Marine Fisheries Service database, along with sample information, and cause of death determination. A full live entanglement response was initiated for the two entangled humpback whales. Through a partnership with Aleutian Aerial and Oceans Unmanned, we were the first group in Alaska to use an UAS drone to assess an entangled whale. The footage led to a safe and efficient disentanglement of a severely entangled humpback whale in Unalaska Bay. Last spring was anomalous with ringed seal observations. The Aleutian Islands are outside of the normal range for the ice-associated ringed seals. Good was able to significantly add to the known body of information on ringed seals. Our recent partnership with Aleutian Aerial means we are pioneering the use of drone technology to respond to entangled cetaceans. Hosting responder-training events in Unalaska has trained local responders greatly increasing our capabilities to address these issues. Successful year-round funding enables Good to lead local responses and allows time for training community members to use the equipment secured by Good and to assist in responses.

Being the largest fishing port in the nation, we are very aware that changes in the environment/ecosystem can have huge impacts on the local economy and peoples livelihoods. This was highlighted in an Aleutian Islands and Bering Sea Marine Invasive Species risk assessment that was developed in partnership with UAA's Alaska Center for Conservation Science, the Aleutian and Bering Sea Islands LCC, Alaska Sea Grant, and U.S. Fish and Wildlife Service Alaska Maritime Refuge. There are relatively few non-native species in the Bering Sea; however, it is predicted that Arctic regions – including the Bering Sea – will

become more susceptible to invasions because of changes in climate and shipping traffic. Good has presented this information locally and at such events as the Pacific Marine Expo and has been actively monitoring for invasives species in Unalaska Bay with the assistance of the Smithsonian Environmental Research Center. With successful funding, she will continue to monitor for invasive species.

Other projects that that have not been mentioned include an NSF funded project:  
*Collaborative Research: Archaeological and Paleoenvironmental Perspectives of Climate Change in the Aleutian Islands.*

Good also conducts paralytic shellfish toxin monitoring with support from the Aleutian Pribilof Islands Association.

There is a lot of local interest and a definite need for community based monitoring. The Aleut Tribe and Good are working with regional fishermen to develop a “Skipper Science” program within BeringWatch. Skipper Science will become part of an app composed of a suite of existing programs with protocols implemented by trained observers focused on feeding specific management needs for agencies and other service providers that manage Alaska’s coastal resources. In particular, Skipper Science will target species and hazard observations from fishing vessels. One vessel has already piloted the draft protocols and app and has provided feedback. We recently learned that our submitted proposal was declined, but we are looking at the reviews closely and will resubmit. This project will further enable fisherman and community members to have an active role in fisheries management and research.

#### *Professional, University, and Public Services*

Good continues to serve on many boards and committees offering a local and professional perspective on issues and concerns of the Aleutian-Pribilof region. These include: Alaska Department of Fish and Game Unalaska/Dutch Harbor Advisory Committee, Unalaska Native Fisherman’s Association, Museum of the Aleutians, Aleutian Islands Waterway Safety Committee, North Pacific Research Board Advisory Panel, Alaska Emergency Response Team, Alaska Ocean Acidification Network, Alaska Harmful Algal Bloom Network, and Aleutian Bering Sea Initiative (previously known as the Aleutian Bering Sea Islands Landscape Conservation Cooperative).

### **M. Goals and Objectives**

Alaska Sea Grant Strategic Plan for 2018-2021 highlights seven primary goals.

- *Goal 1 Healthy marine, coastal, and watershed ecosystems in Alaska.*
  - *Objective 1* Increase the shared body of knowledge about marine, coastal, and watershed ecosystems in Alaska, emphasizing the concerns and interests of stakeholders.
  - *Objective 2* Support and enhance planning, management, and mitigation needed to ensure healthy ecosystems and coastal communities.

- *Goal 2 Sustainable fisheries and marine resources that provide safe food, jobs, and economic and cultural value.*
  - *Objective 1* Promote and support harvest and processing techniques that lead to safe and high-quality food
  - *Objective 2* While recognizing the priority of wild stocks and harvest, support sustainable aquaculture and enhancement of marine resources.
  - *Objective 3* Promote and support the sustainability of fisheries and other marine resource harvests.
  
- *Goal 3 Vibrant coastal communities with strong and diverse economies.*
  - *Objective 1* Support the success and expansion of Alaska-based maritime businesses.
  
- *Goal 4 Communities and residents with skills and knowledge to respond and adapt to coastal hazards and environmental change.*
  - *Objective 1* Increase the capacity of Alaska’s coastal communities and residents to prepare for, and adapt and respond to, coastal hazards, disaster events, and environmental change.
  
- *Goal 5 Safe participation in maritime travel and activities.*
  - *Objective 1* Lower the risk of injuries and fatalities associated with boating and other maritime travel and activities, in a changing environment.
  
- *Goal 6 An environmentally literate Alaska public and visitors.*
  - *Objective 1* Increase effective environmental literacy instruction to Alaska K–12 students by formal and informal educators.
  - *Objective 2* Increase effective environmental literacy communication to stakeholders, including how ecosystem change affects economic, social and cultural values, and implications for conservation and management.
  
- *Goal 7 A responsive workforce of highly skilled Alaskans in the fisheries, seafood, and maritime occupations in the state.*
  - *Objective 1* Prepare a diverse workforce, responsive to employer needs, to participate in and benefit from Alaska’s maritime sectors.
  - *Objective 2* Grow awareness of maritime occupations and career pathways among Alaskans.

**Primary Goals** to be met with successful funding of this proposal:

- 1) Complete regional educational needs assessment for the Aleutian-Pribilof Region.
- 2) Monitor for invasive species using Smithsonian Environmental Research Center PlateWatch Protocols.
- 3) Draft new proposal for *Skipper Science* that meets of the requirements of new funding agencies.

**N. Other Resources**

Anticipated funding:

<b>Funder</b>	<b>Months</b>
UAF College of Fisheries and Ocean Sciences	.5 – 1 month
Bristol Bay Campus Aleutian Pribilof Center Coordinator	4 months
NSF funded project: <i>Collaborative Research: Archaeological and Paleoenvironmental Perspectives of Climate Change in the Aleutian Islands.</i>	1 month
John H. Prescott Marine Mammal Rescue Assistance Grant Program	1 month
City of Unalaska	1 month
Alaska Sea Grant Federal Grant Funds	3.5-4 months

## **O. Program Budget and Narrative: Spreadsheets**

### *PROGRAM EXPENDITURES*

- **Personnel – Salaries**
  - UAF Alaska Sea Grant Marine Advisory Program Agent: \$10,359.
- **Personnel-Benefits**
  - Benefits: Total: \$3,149.
- **Personnel- Payroll Expenses**
  - None
- **Facilities**
  - None
- **Program Costs and Supplies**
  - None
- **Equipment**
  - None
- **Commodities:**
  - None
- **Travel:**
  - None
- **Training/Professional Development:**
  - None
- **Professional Services:**
  - None
- **Other/Misc.**
  - None

## **P. Financial Management**

The University of Alaska Fairbanks College of Fisheries and Ocean Sciences Alaska Sea Grant Director is in charge of all financial management.

## **IV. GOALS ANALYSIS/ CHANGES FROM PREVIOUS YEAR'S PROGRAM**

**Q. Goals and Objectives**

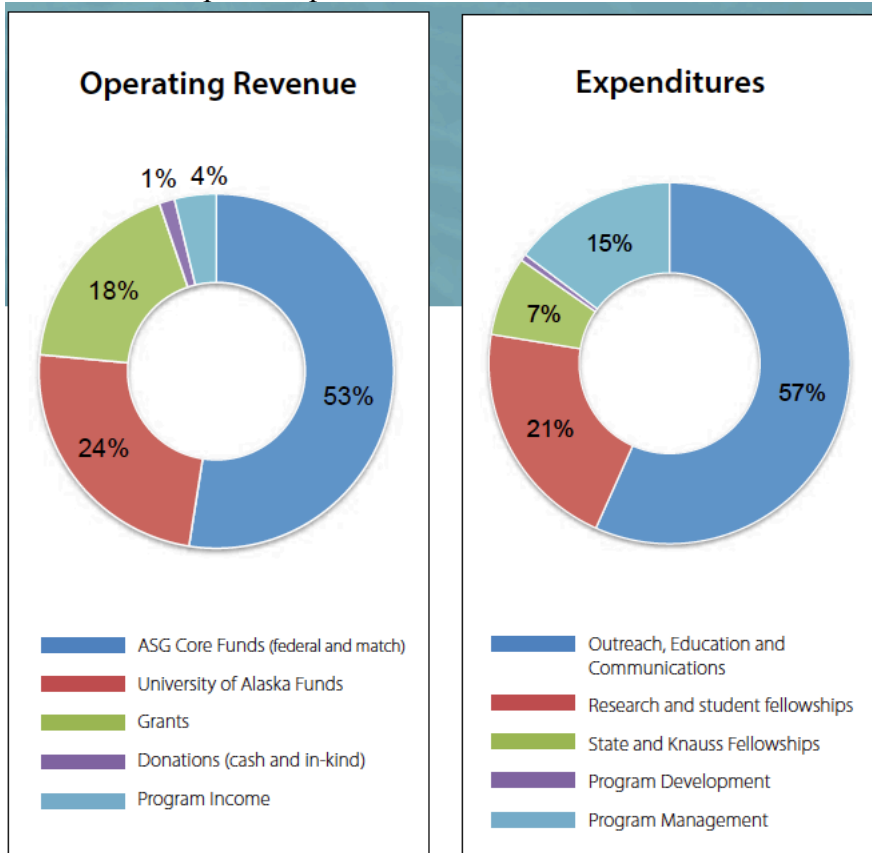
This is the first year of requesting funds through this process. No goals or objectives were previously stated in the letter of request.

**R. Significant Changes from Previous Year**

No significant changes from the previous year.

**S. Income and Expense Report**

Income and expense report for Alaska Sea Grant for 2017-18:



Operating Revenue, Year 4 Omnibus (partial FY18)	
ASG Core Funds (federal and match)	\$2,721,798
University of Alaska funds	\$1,245,201
Grants	\$949,125
Donations (cash and in-kind)	\$73,582
Program Income	\$197,150

Expenditures	
Outreach, Education & Comms	\$2,434,912
Research and Student Fellowships	\$896,707
State and Knauss Fellowships	\$305,788
Program Development	\$25,601
Program Management	\$632,411

**T. Proof of Non-Profit Status**

Not applicable.

**FY20 COMMUNITY SUPPORT ESTIMATED EXPENDITURES SUMMARY**

<b>BUDGET LINE ITEMS</b>	<b>FY18 CITY REQUEST</b>	<b>FY19 CITY REQUEST</b>	<b>FY20 CITY REQUEST</b>
<b>Personnel - Salaries</b>			
Melissa Good, 1 mo.	\$10,499.00	\$10,369	\$10,359
	\$ -	\$ -	\$ -
<b>Personnel - Salaries Subtotal</b>	<b>\$ 10,499.00</b>	<b>\$ 10,369.00</b>	<b>\$ 10,359.00</b>
<b>Personnel - Benefits</b>			
Melissa Good, 1 mo	\$ 3,202.00	\$3,225	\$3,225
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
<b>Personnel - Benefits Subtotal</b>	<b>\$ 3,202.00</b>	<b>\$3,225</b>	<b>\$3,149</b>
<b>Personnel - Payroll Expenses</b>			
	\$ -	\$ -	\$ -
<b>Personnel - Payroll Expenses Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Personnel - Salary &amp; Benefits Total</b>	<b>\$ 13,701.00</b>	<b>\$ 13,594.00</b>	<b>\$ 13,508.00</b>

<b>Facilities</b>			
Rent/Leases 1 mo. UAF office space leased from Unalaska			
Communications	\$ -	\$ -	\$ -
Utilities	\$ -	\$ -	\$ -
Maintenance	\$ -	\$ -	\$ -
<b>Facilities Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Program Costs/Supplies</b>			
Program Supplies	\$ -	\$ -	\$ -
Printing - Brochures	\$ -	\$ -	\$ -
Community Outreach Costs	\$ -	\$ -	\$ -
Advertising	\$ -	\$ -	\$ -
Dues/Fees/Subscriptions	\$ -	\$ -	\$ -
<b>Program Costs Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Equipment</b>			
Equipment Purchase/Lease	\$ -	\$ -	\$ -
Equipment Maintenance	\$ -	\$ -	\$ -
<b>Equipment Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Commodities (food, cleaning products)</b>			
Food	\$ -	\$ -	\$ -
Household Supplies	\$ -	\$ -	\$ -
Office Supplies	\$ -	\$ -	\$ -
<b>Commodities Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>Travel</b>			
Travel - Staff	\$ -	\$ -	\$ -



Travel - Other	\$ -		\$ -	\$ -
<b>Travel Total</b>	<b>\$ -</b>		<b>\$ -</b>	<b>\$ -</b>

<b>Training</b>				
Travel - Staff	\$ -		\$ -	\$ -
Travel - Other	\$ -		\$ -	\$ -
<b>Training Total</b>	<b>\$ -</b>		<b>\$ -</b>	<b>\$ -</b>

	<b>City Request</b>		<b>City Request</b>	<b>City Request</b>
<b>Project Totals</b>	<b>\$ 13,701.00</b>		<b>\$ 13,594.00</b>	<b>\$ 13,508.00</b>