



# Alaska Sea Grant

*Science serving Alaska's coastal communities*



# University and NOAA partnership

- Research
- Education: Curriculum, Publications, Videos
- Extension and outreach – *Marine Advisory Program*
  - *(Our partner program is Land Grant – Cooperative Extension Service)*



# Coastal communities facing climate change – Alaska Sea Grant’s role?

**\* Enhance local relevance – how will this impact us?**

**• Increase access to adaptation tools**

**\* Create new knowledge – both impacts and tools**



# Research Answering Alaskan Questions



- **Ongoing:**

*“Responses to Coastal Erosion in Alaska: A Guide for Coastal Residents, Businesses, and Builders” to be finished in 2010*

- **Just Beginning:**

RFP asked for proposals which focus on *“Impacts on and adaptation strategies for coastal ecosystems and/or coastal communities from environmental change, especially in relation to climate change or human activity on various scales.”*

33 pre-proposals submitted

- **Bringing Research Together:**

Wakefield symposium: *“Exploited Crab Populations under Climate Change”*-  
March in Anchorage

# Understanding climate change by linking science and educators



- **Alaska Seas and Rivers curriculum:** K-8, Alaska-based, marine/aquatic units, meeting state standards
- **COSEE Alaska : People, Oceans and Climate Change**  
– linking scientists and educators around climate change and ocean science
- **Publications:** Alaska Seas and Coasts: Changing Fisheries, Changing Climate?

# Alaska Sea Grant Marine Advisory Program



# Alaska Sea Grant Marine Advisory Program

## Heidi Herter

Sea ice loss  
Increased storms  
Impacts to subsistence  
Marine Safety



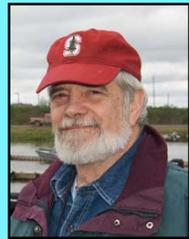
## Torie Baker

Climate change impacts on salmon fisheries  
Energy efficiency for fishermen and processors



## Terry Reeve

Erosion  
Archeological Artifacts



## Ray

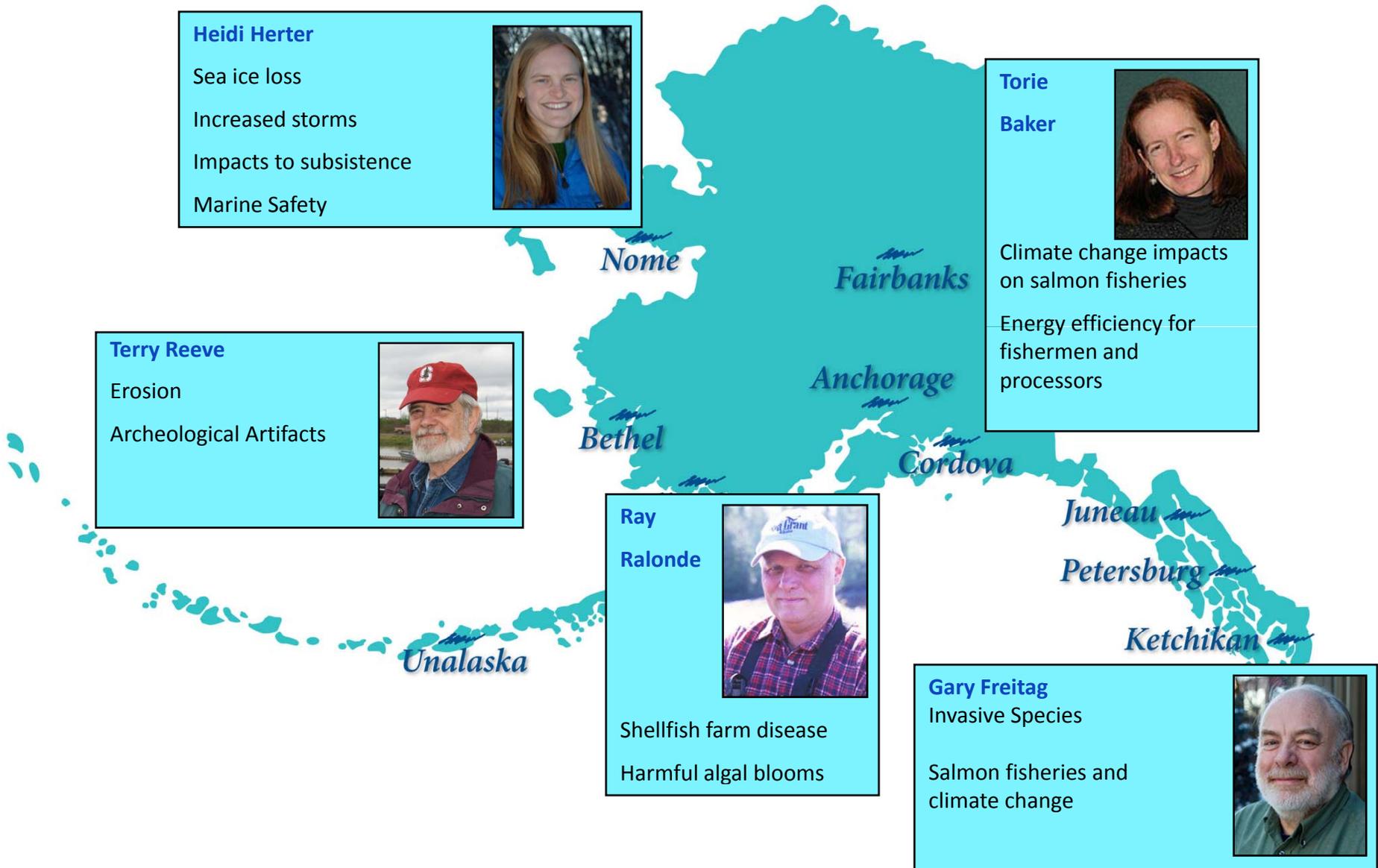
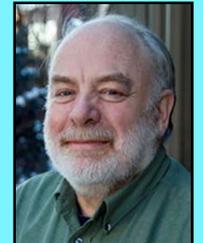
Ralonde

Shellfish farm disease  
Harmful algal blooms



## Gary Freitag

Invasive Species  
Salmon fisheries and climate change



[www.alaskaseagrant.org](http://www.alaskaseagrant.org)

**Sea Grant**  
Alaska

