

# *North Pacific Research Board*

*“Building a clear understanding of the North Pacific, Bering Sea, and Arctic Ocean ecosystems that enables effective management and sustainable use of marine resources”*



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

## Research Funding

- Dinkum Sands funds – 1997: 20% of interest
- Total Research \$17 million for 94 projects:
  - \$1.2 million for 2002
  - \$7 million for 2003
  - \$3.3 million for 2004
  - \$5.5 million for 2005
- \$4.5 million for 2005 and 2006 from EIRF, plus appropriations of \$3 million in 2004 and 2005
- Plan for ~\$6 million per year for next 4 years
- Could be higher if Treasury rates improve or augmented by appropriations

# NPRB Geographic Scope

## EIRF Legislation:

*“...conduct research activities on or relating to the fisheries or marine ecosystems in the north Pacific Ocean, Bering Sea, and Arctic Ocean (including any lesser related bodies of water), with priority on cooperative research efforts designed to address pressing fishery management or marine ecosystem information needs.”*

## ***NPRB Mission***

***“Building a clear understanding of the North Pacific, Bering Sea, and Arctic Ocean ecosystems that enables effective management and sustainable use of marine resources”***

### ***Five Goals:***

- ***Improve understanding of North Pacific marine ecosystem dynamics and use of the resources;***
- ***Improve ability to manage and protect the healthy, sustainable fish and wildlife populations that comprise the ecologically diverse marine ecosystems of the North Pacific, and provide long-term, sustained benefits to local communities and the nation;***
- ***Improve ability to forecast and respond to effects of changes, through integration of various research activities, including long-term monitoring;***
- ***Foster cooperation with other entities conducting research and management in the North Pacific, and work toward common goals for North Pacific marine ecosystems; and***
- ***Support high quality projects that promise long-term results as well as those with more immediate applicability.***

- 3 meetings in 2003
- Advisory Panel
- MOA
- \$7 million research
- Sci Symposium

2003

2002

2001

- 2 org. meetings
- Mission and goals

- 4 meetings in 2002
- Staff & SOPPs
- Web site
- Science Panel
- \$1.2 million research

2004

- 4 meetings
- Sci symposium
- \$3.3 million new research
- Receive NRC report
- Draft & submit science plan
- Research coordination
- Hire data systems manager

2005

- Sci symposium
- \$4.5 million research
- Implement science plan
- Synthesis

**Categories of Research**

**No. Projects**

**Total Funding**

**Oceanic and Estuarine Salmon**

**9**

**\$2.29 million**

**Fisheries Habitat**

**12**

**\$3.15 million**

**Other Fisheries-Related Research**

**22**

**\$2.66 million**

**Marine Mammal**

**16**

**\$2.76 million**

**Marine Food Web Ecological Studies**

**29**

**\$5.86 million**

**Education, Outreach, and Synthesis**

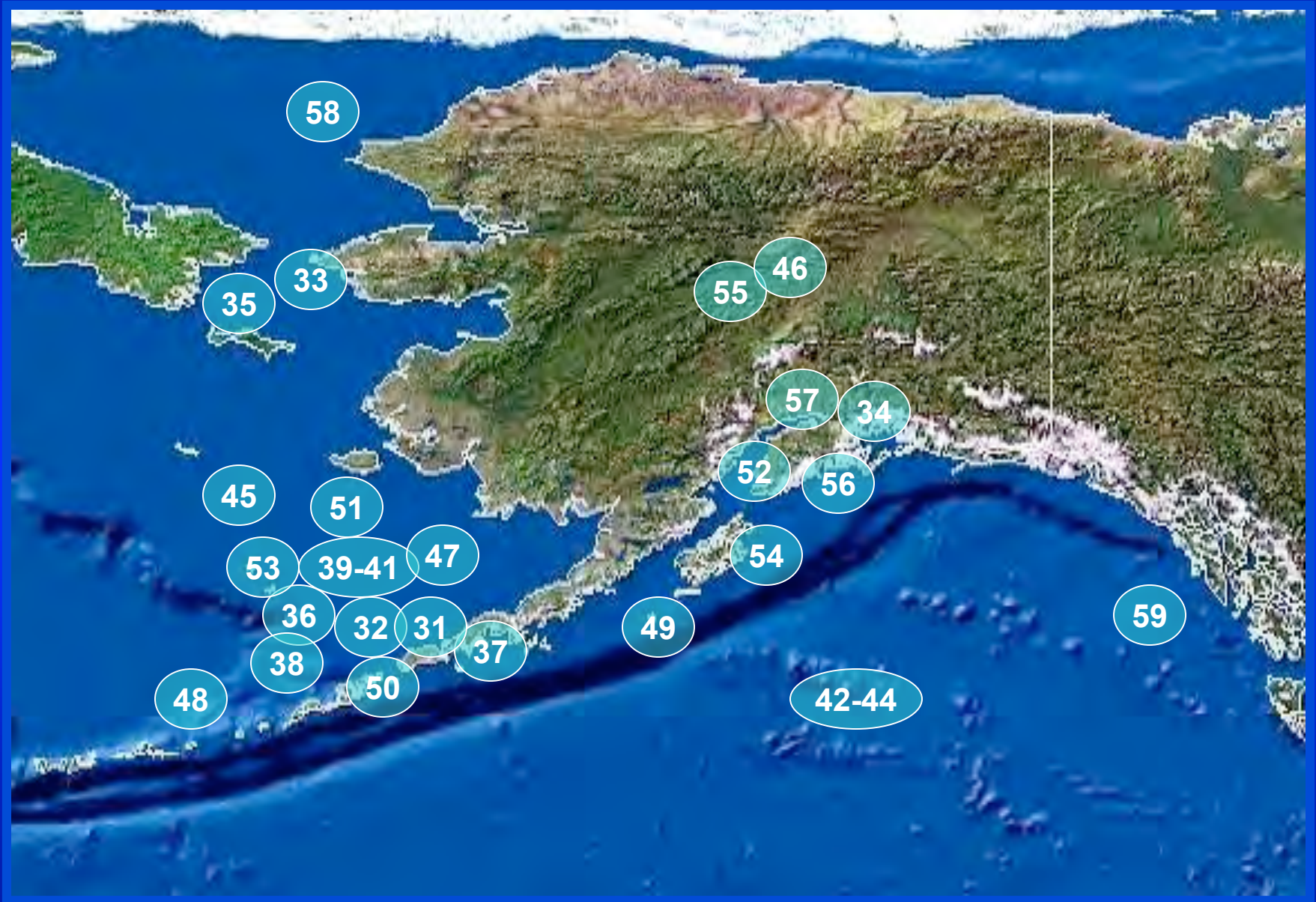
**6**

**\$1.12 million**

# North Pacific Research Board: Projects 1-30



# North Pacific Research Board: Projects 31-59







Salmon



O. Fish



Habitat



Shellfish



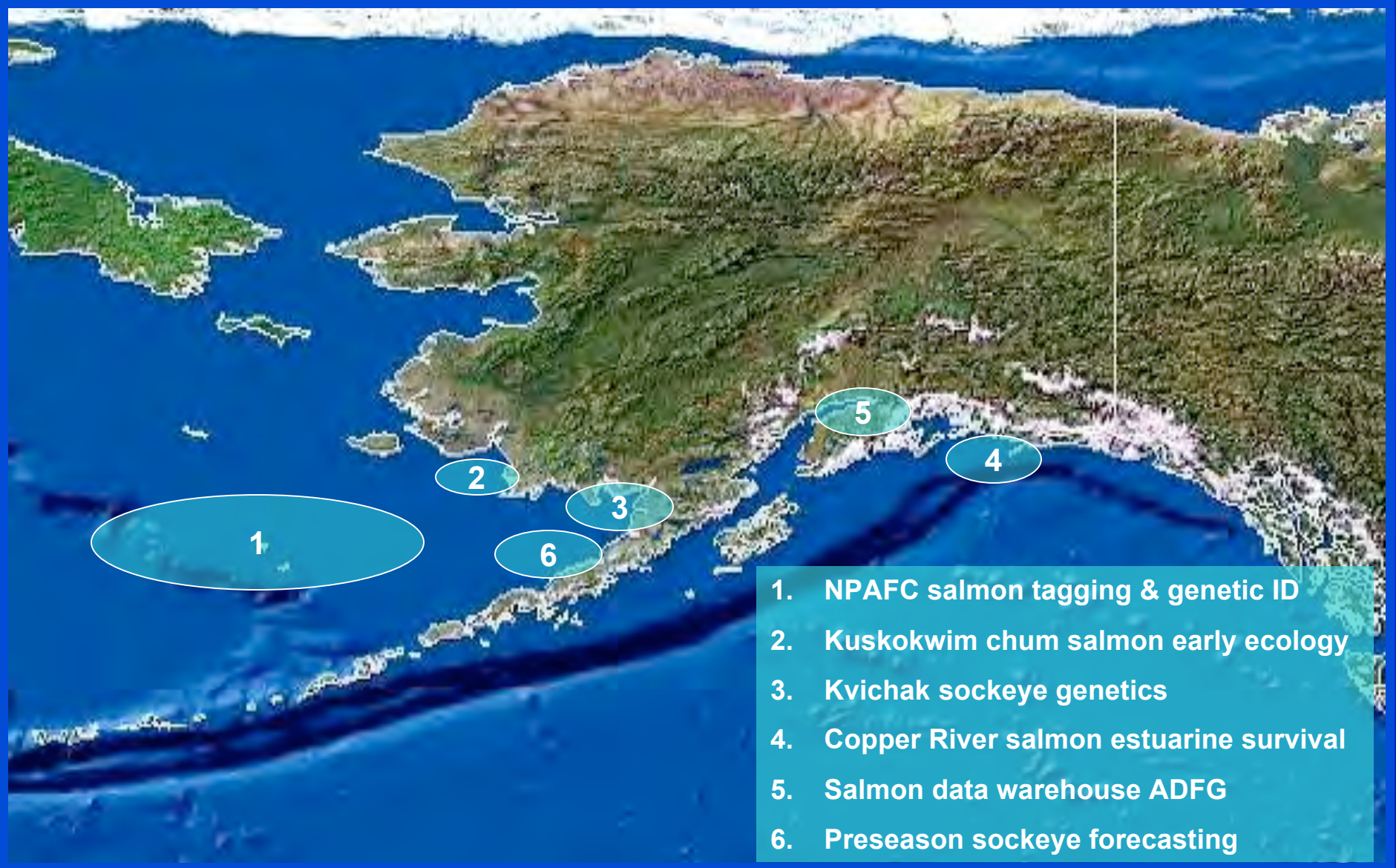
Ecosystem



Mammals



Seabirds





Salmon



O. Fish



Habitat



Shellfish



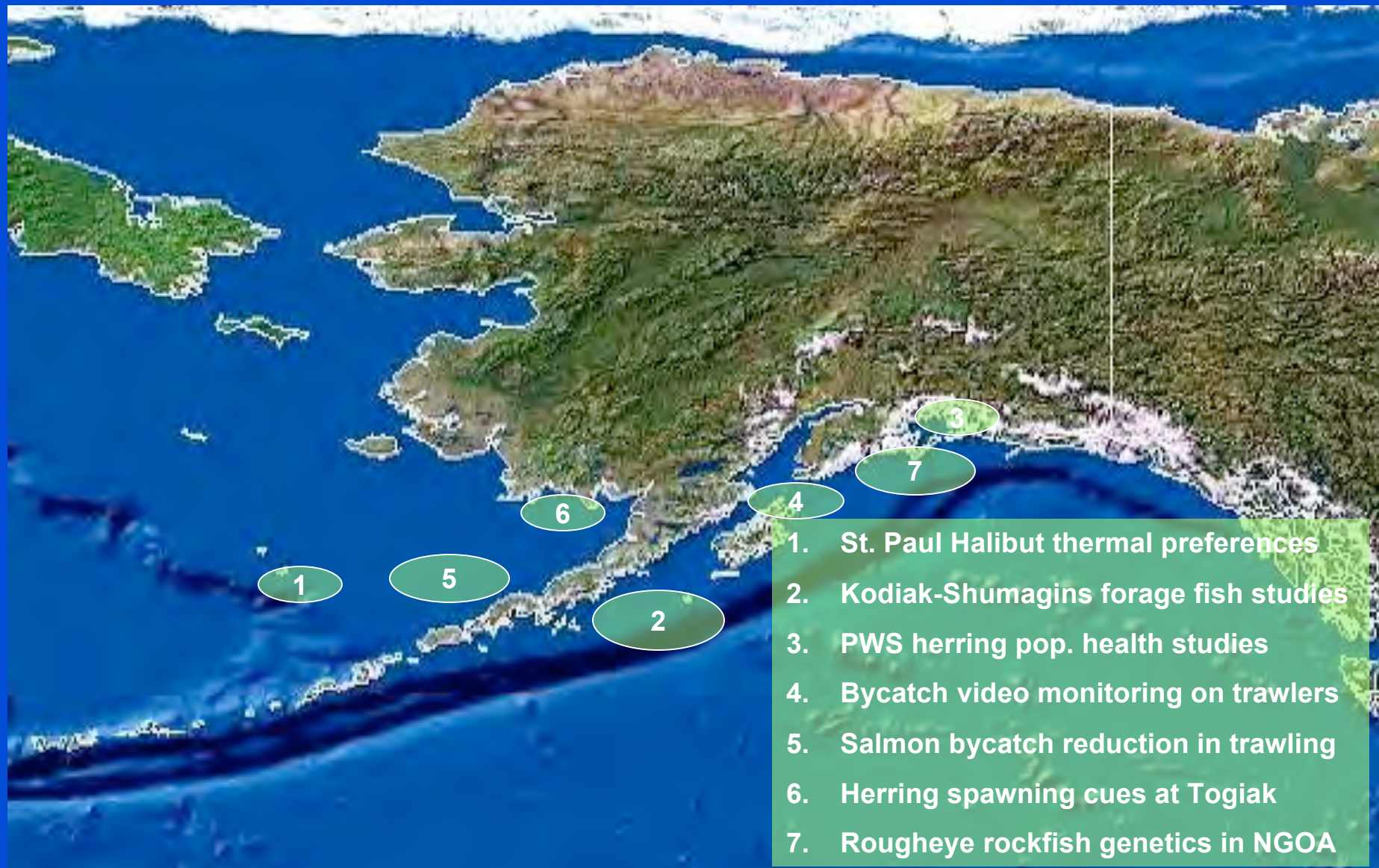
Ecosystem



Mammals



Seabirds





Salmon



O. Fish



Habitat



Shellfish



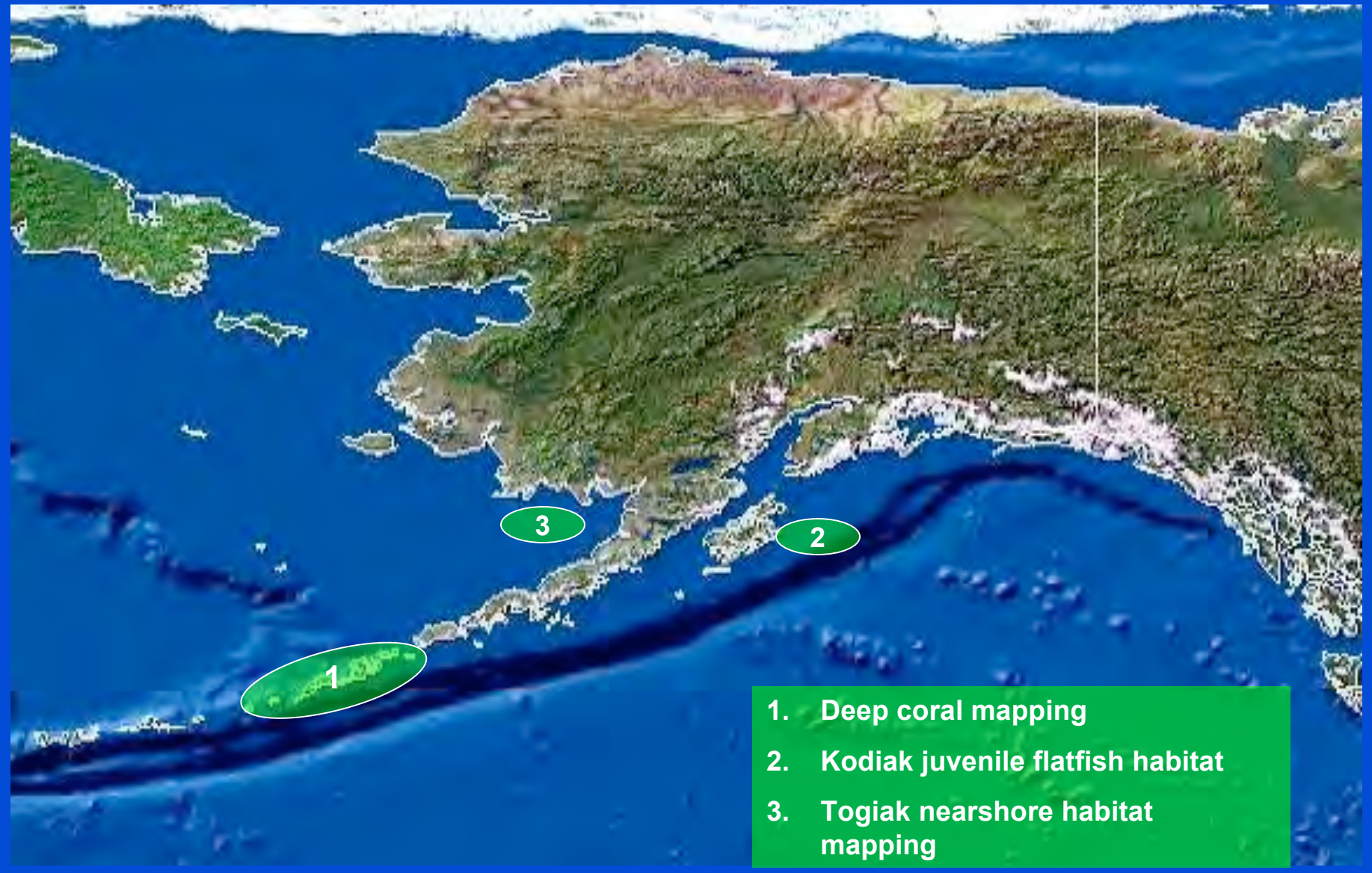
Ecosystem



Mammals



Seabirds





Salmon



O. Fish



Habitat



Shellfish



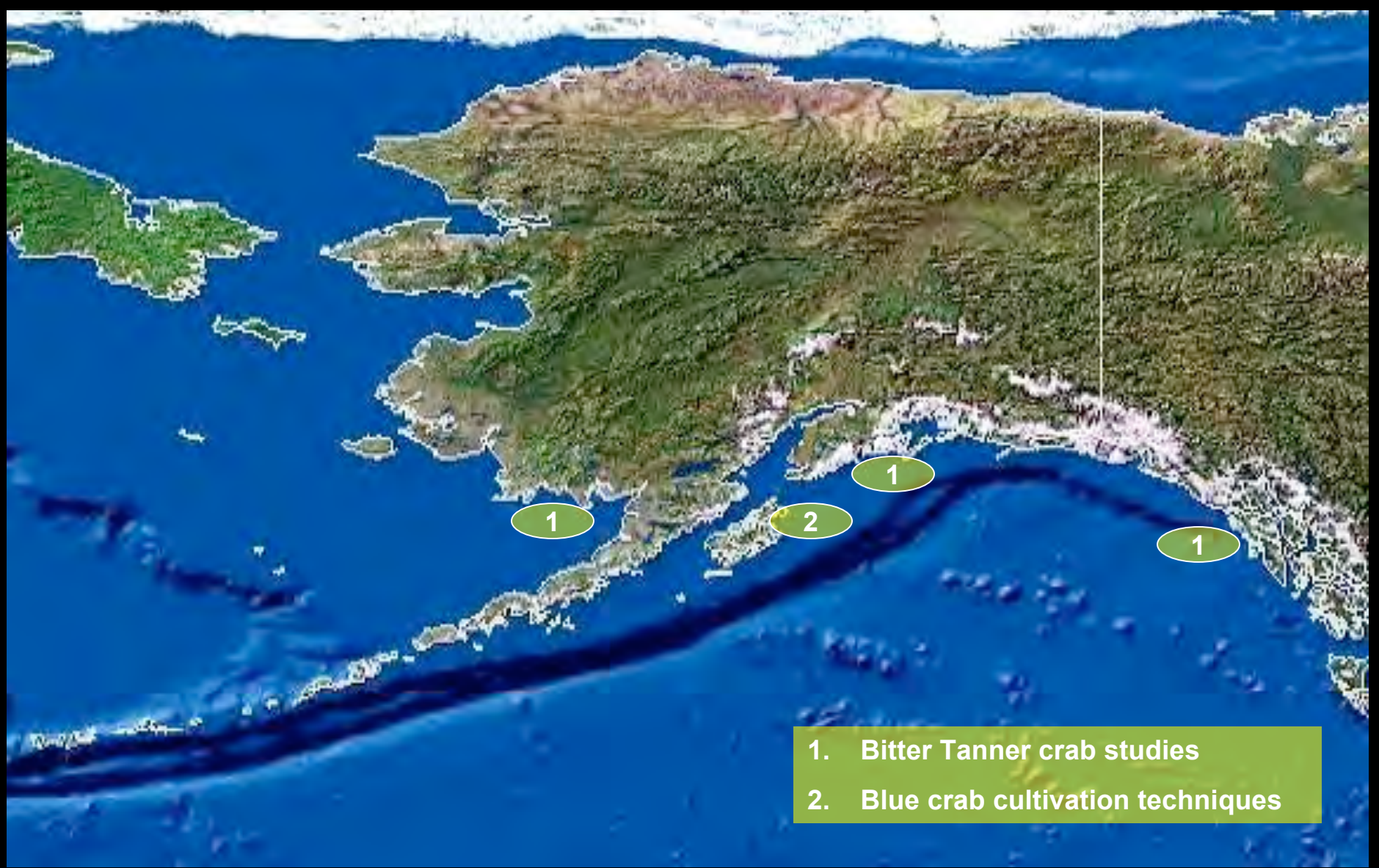
Ecosystem



Mammals



Seabirds



- 1. Bitter Tanner crab studies
- 2. Blue crab cultivation techniques



Salmon



O. Fish



Habitat



Shellfish



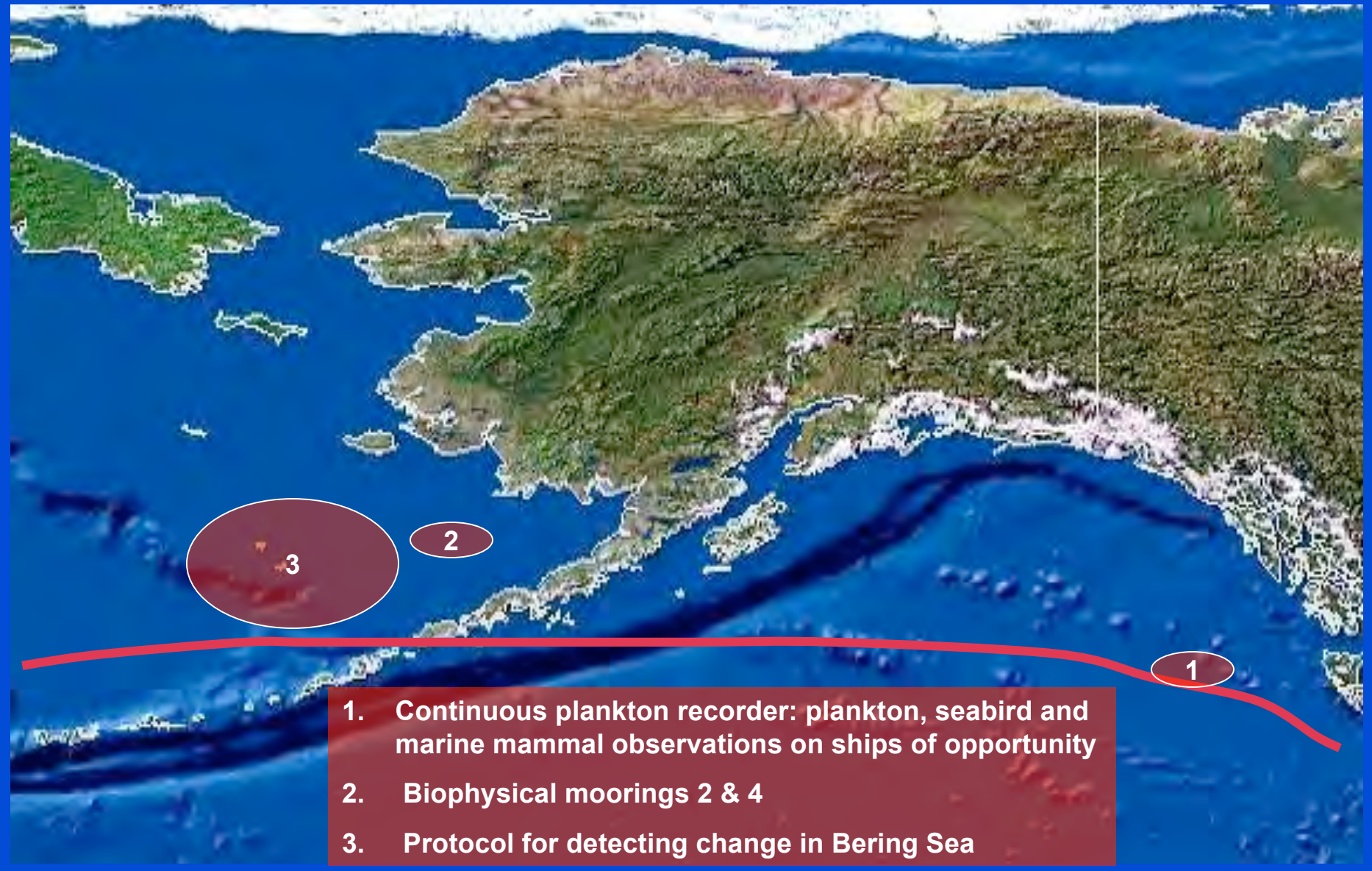
Ecosystem



Mammals



Seabirds





Salmon



O. Fish



Habitat



Shellfish



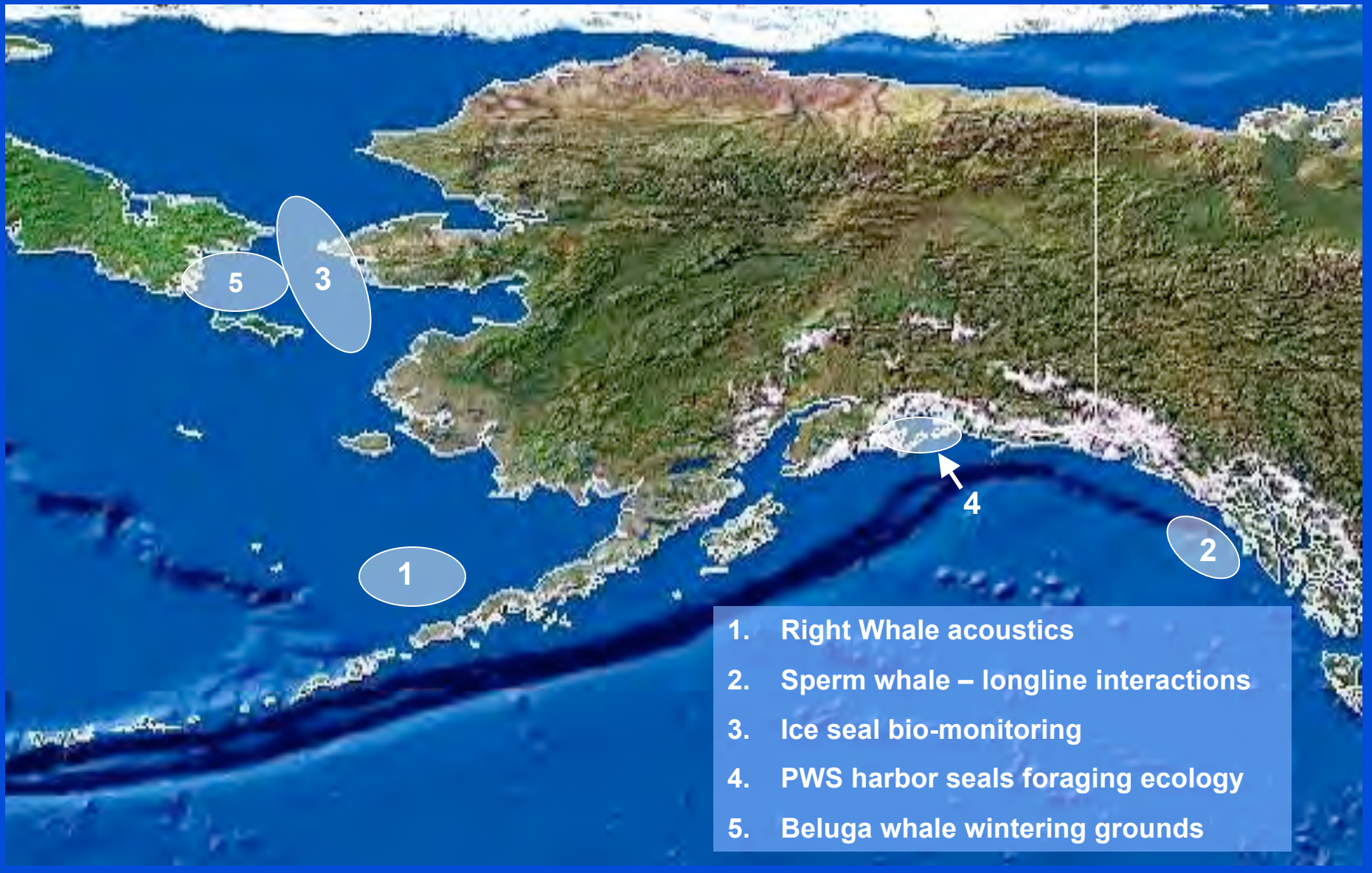
Ecosystem



Mammals



Seabirds



- 1. Right Whale acoustics
- 2. Sperm whale – longline interactions
- 3. Ice seal bio-monitoring
- 4. PWS harbor seals foraging ecology
- 5. Beluga whale wintering grounds



Salmon



O. Fish



Habitat



Shellfish



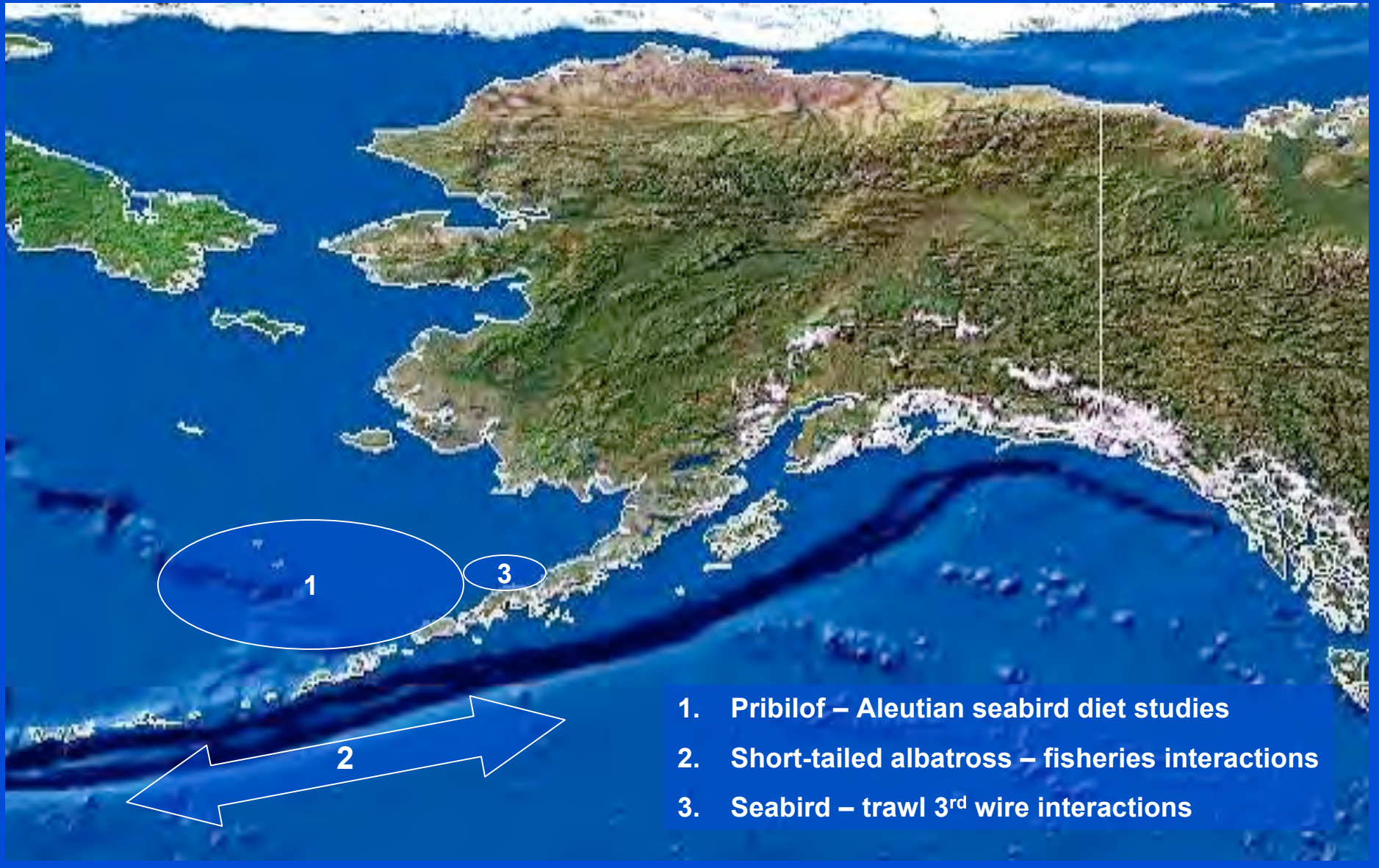
Ecosystem



Mammals



Seabirds



1. Pribilof – Aleutian seabird diet studies
2. Short-tailed albatross – fisheries interactions
3. Seabird – trawl 3<sup>rd</sup> wire interactions



Salmon



O. Fish



Habitat



Shellfish



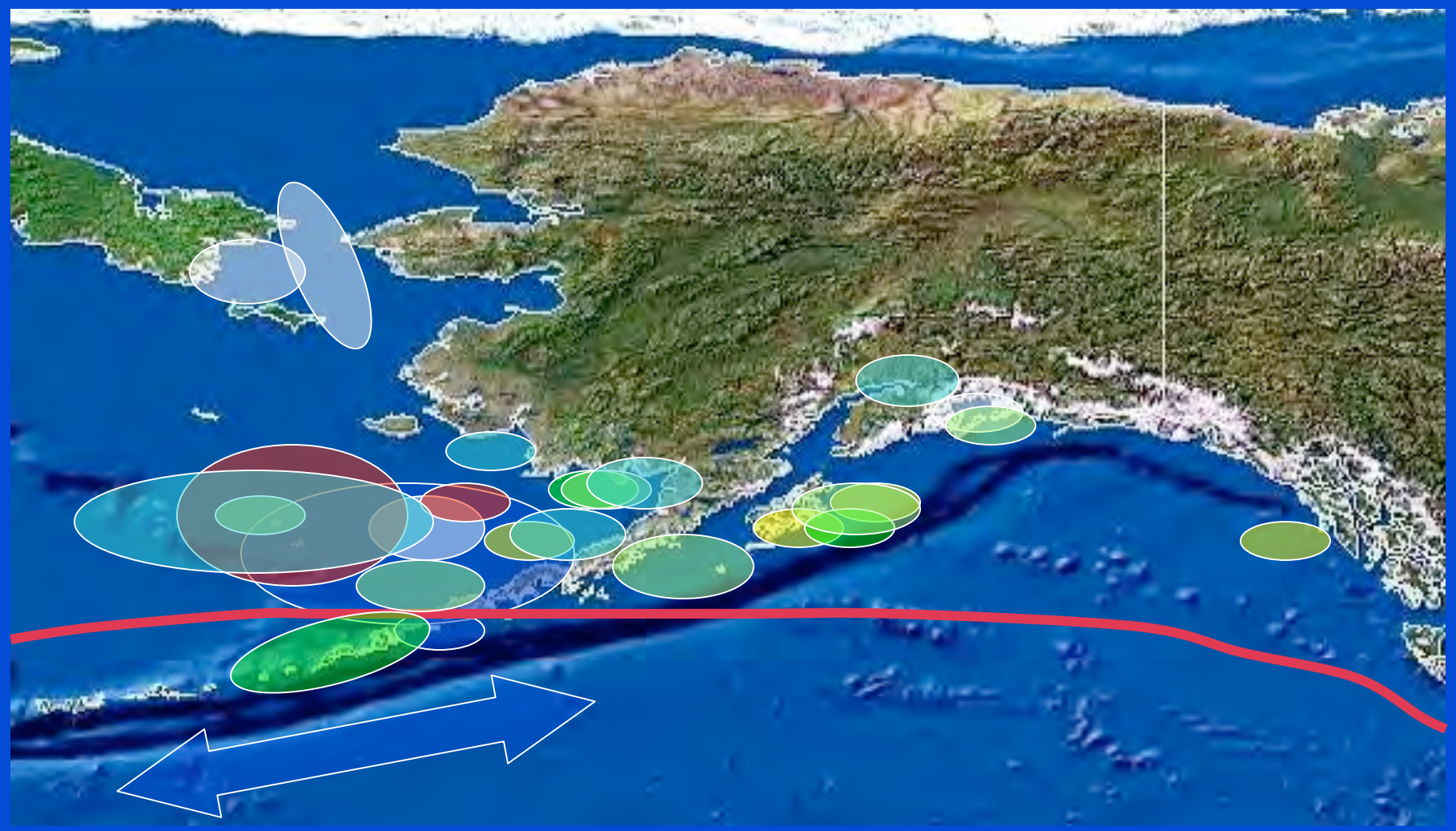
Ecosystem



Mammals



Seabirds





# Annual Cycle

<b>May-June</b>	<b>Meeting: Science reports and draft research priorities</b>
<b>Late September</b>	<b>Meeting: Board approves RFP Release</b>
<b>Early October</b>	<b>Release RFP</b>
<b>Early December</b>	<b>Proposals due</b>
<b>January</b>	<b>Science Symposium and Peer reviews</b>
<b>March</b>	<b>Meeting: Board approves proposals</b>
<b>May-June</b>	<b>Meeting: Science reports and draft research priorities</b>

Meetings mainly in Anchorage, but could be elsewhere.

# Draft Science Plan

(10 year plan)

- **Conceptual Foundation**
- **Research Themes**
  - Lower Trophic Level Productivity
  - Fish Habitat
  - Fish and Invertebrates
  - Marine Mammals
  - Seabirds
  - Humans
  - Integrated Ecosystem Res. Progs.
  - Other Prominent Issues
    - Contaminants
    - HAB
    - Aquaculture
    - Climate Change
    - Invasive Species
- **Other Research Approaches**
  - LTK
  - Cooperative Research
  - Coordination
  - Ed and Outreach
- **Policies and Procedures**
  - Data Management
  - Scientific Integrity
  - Specimen Archives
  - Intellectual Property Rights
  - Equipment Sharing

**Table 3-1. Summary of research themes for major ecosystems components.**

	<b>Lower Trophic Level Productivity</b>	<b>Fish Habitat</b>	<b>Fish and Invertebrates</b>	<b>Marine Mammals</b>	<b>Seabirds</b>	<b>Humans</b>	
<b>Pressing Fishery Management Issues</b>		Other Human-Related Impacts	Stock Assessment Research & Development	Other Human-Related Impacts	Other Human-Related Impacts	Fishery Management & Policy	
			Alternative Harvest Strategies	Fisheries Interactions	Fisheries Interactions	Baseline Assessment Issues	
<b>Marine Ecosystem Information Needs</b>	Nutrient Dynamics	Fishing Effects	Socio-economic Considerations	Marine Habitat Use	Marine Habitat Use	Human Health and Marine Resources	
			Reducing Catch of Unwanted Species			Foraging Success	Foraging Success
<b>Marine Ecosystem Information Needs</b>	Phytoplankton Ecology	Habitat Mapping	Causes of Perturbations of Major Species	Population Dynamics	Population Dynamics	Climate Variability and Change	
			Ecosystem Functions of Habitat	Ecosystem Change Implications on Fisheries Management	Long-term Climate Change		Long-term Climate Change
				Phytoplankton – Sea Ice Dynamics			
	Zooplankton Ecology						

# Implementation Plan

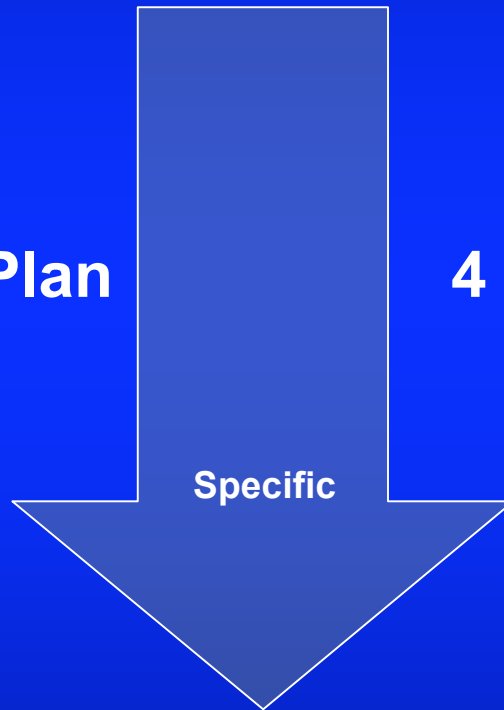
- **General directions for next 4 years**
- **Review and revise annually**
- **~\$6 million/year for planning purposes**
- **Relates back to science plan**
- **Helps shape annual requests for proposals**

**Science Plan**



**5-7 years: 2005-2010**

**Implementation Plan**



**4 years: 2005-2008**

**Request for Proposals**

**1 year: 2006**



NPRB



GEM



AOS



OSRI



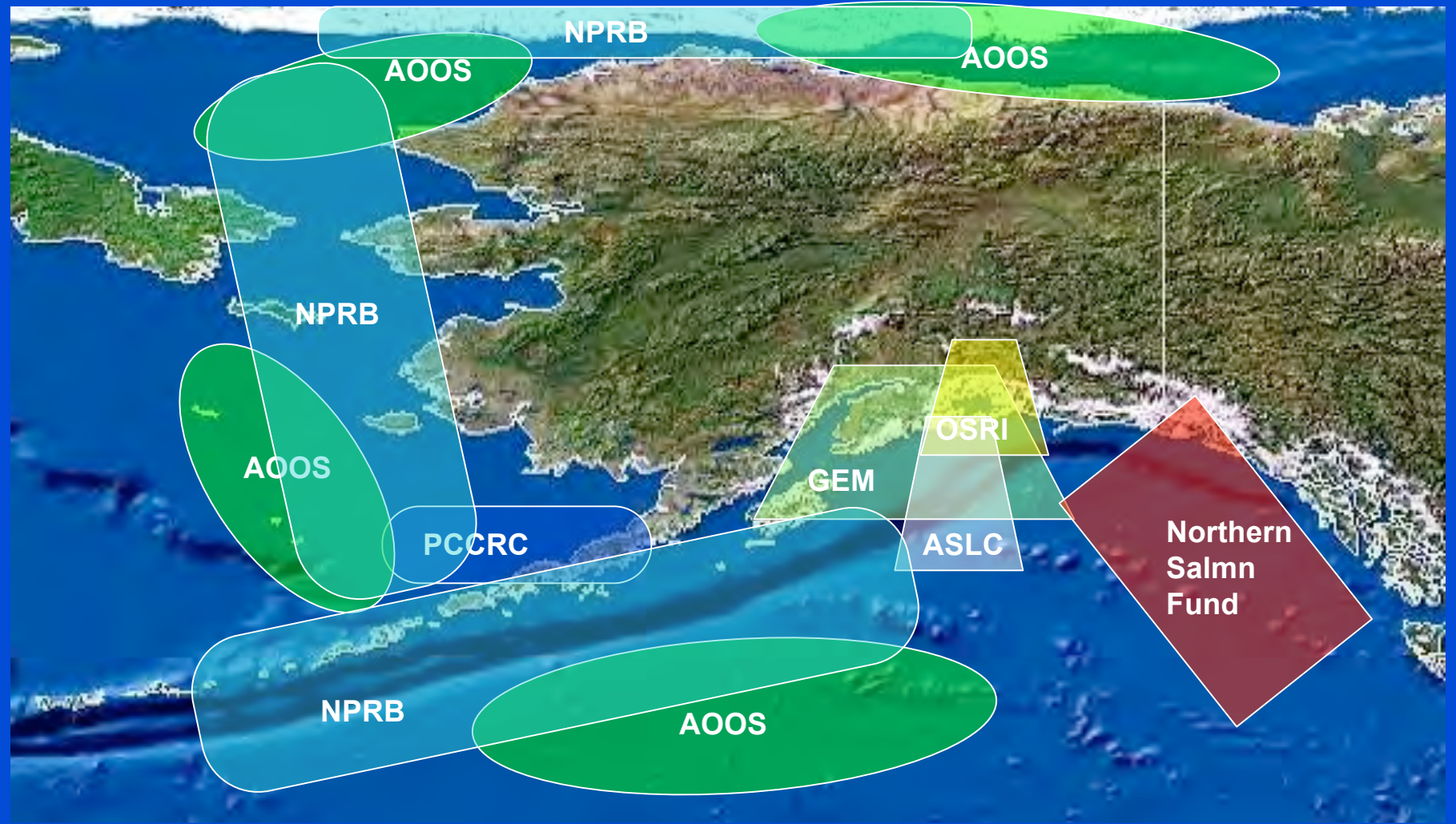
N. Salmon



ASLC



PCCRC



**Marine Research Funding Organizations in Alaska**

NPRB: North Pacific Research Board - Microsoft Internet Explorer

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**NPRB**  
NORTH PACIFIC RESEARCH BOARD

About NPRB Meetings Science Planning Research AMIS NPMRI

Building a clear understanding of the North Pacific, Bering Sea and Arctic Ocean ecosystems that enables effective management and sustainable use of marine resources

**SPOTLIGHT**

**Science Symposium January 24-26, 2005**  
Marine Science in Alaska  
[Registration information...](#)

**Draft Science Plan**  
On September 30, the Board approved its draft science plan for review by the National Research Council  
[Read more...](#)

**Board approves \$3,623,677 for 2004 research proposals.**  
Earnings of the Environmental Improvement and Restoration Fund will fund twenty three projects in response to the 2004 RFP.  
[Read more...](#)

**Since 2002, NPRB has approved 61 projects totaling \$11.8 million.**  
The projects focus on addressing pressing fisheries and marine ecosystems information needs and fall into seven broad categories of research.  
[Read more...](#)

**OUR SITE**

**About NPRB**  
NPRB supports research on fisheries and marine ecosystems in the North Pacific, Bering Sea, and Arctic Ocean.  
[Read more...](#)

**Meetings**  
Three to four public meetings each year, usually in Anchorage.  
[Read more...](#)

**Science Planning**  
Comprehensive science planning of the highest caliber.  
[Read more...](#)

**Research**  
Research priorities and a request for proposals will be released each fall.  
[Read more...](#)

**AMIS**  
The Alaska Marine Information System (AMIS) is a web-based information system covering the North Pacific.  
[Read more...](#)

**NPMRI**  
North Pacific Marine Research

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