

Presentation to the North Pacific Fishery Management Council

December 2014



Created by Congress, with a 20-member board

Funding from settlement of the Dinkum Sands case

Annually awarded 20% of the interest off the Environmental Improvement and Restoration Fund

Funding through NOAA; decisions of NPRB advisory to the U.S. Secretary of Commerce



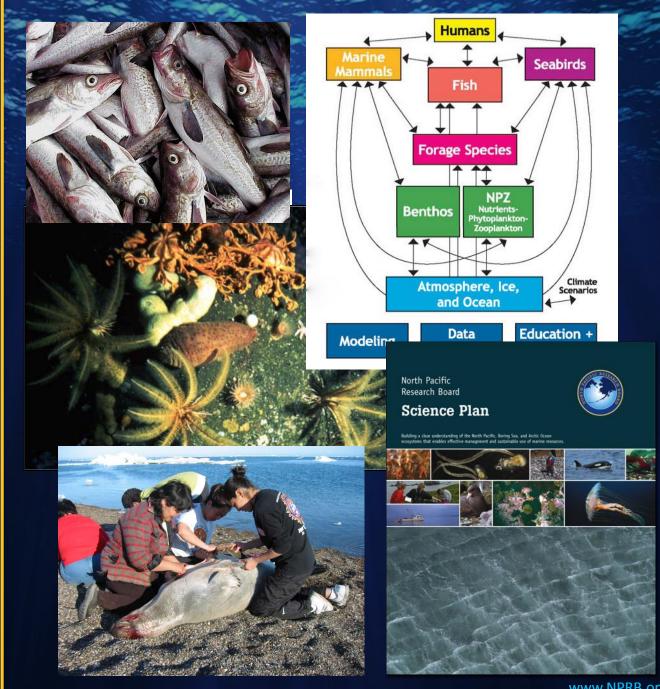






Building a clear understanding of the North Pacific, Bering Sea, and Arctic Ocean ecosystems that enables effective management and sustainable use of marine resources

Priority on cooperative research designed to address pressing fishery management or marine ecosystem information needs





Ocean productivity
Fish habitat
Fishes and
invertebrates
Marine mammals
Seabirds
Human dimensions
Other prominent
issues

Annual RFP
Integrated ecosystem
research
Long-term
monitoring
Graduate student
research awards



North Pacific Research Board



Communications and Outreach

Alaska Marine Science Symposium

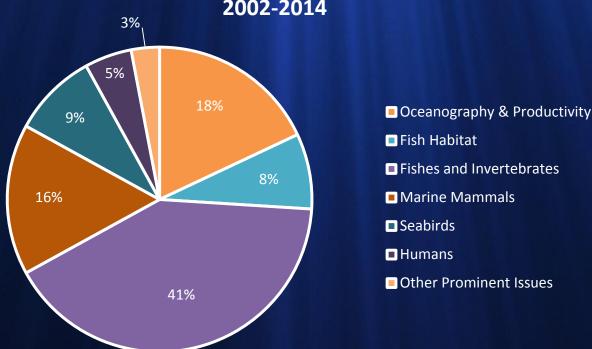




Research Programs

Annual Research Program (2002 -2014) 350 projects totaling over \$57.8 million





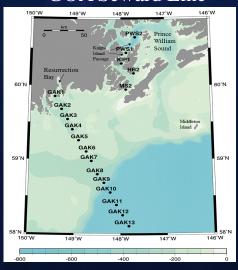


Research Programs

Long-term Monitoring Program (new in 2014)

Three new 5-year projects (\$1.86 million) with potential to re-new funding in subsequent 5-year periods

GOA Seward Line





North Pacific Continuous Plankton Recorder

Year-round Northeast Chukchi Sea Mooring





Research Programs

Integrated Ecosystem Research Programs



\$52 million partnership between NPRB and the National Science Foundation



2010 - 2014

\$18 million total from NPRB & NOAA-Alaska Fisheries
Science Center



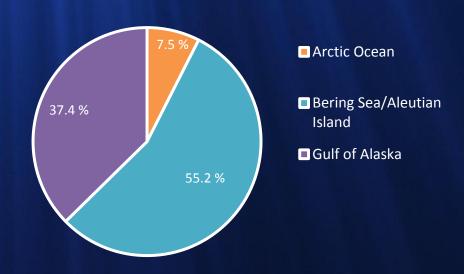
Funding Distribution

Funds Awarded since 2002: \$84.9 million # organizations receiving funds: 117

Funding Distribution by Institution Type 2002 - 2014



Funding Distribution by Large Marine Ecosystem 2002- 2014

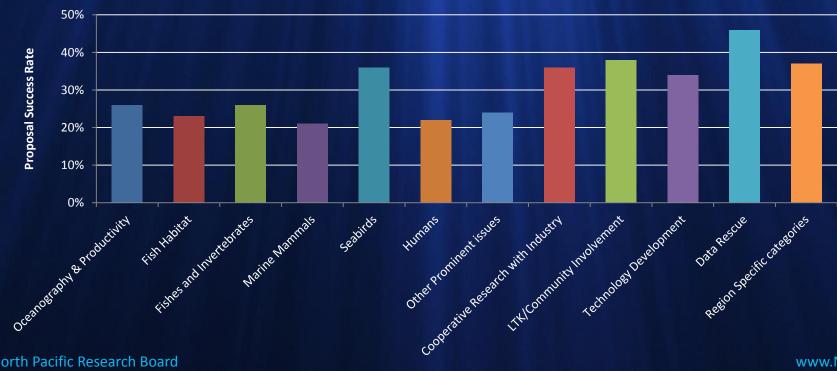




Proposal Success Rate

28 % overall success rate for proposals submitted to the annual RFP since 2006

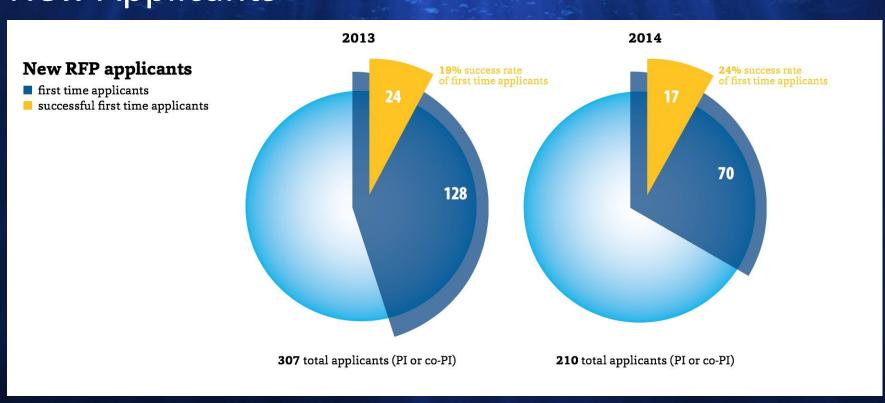






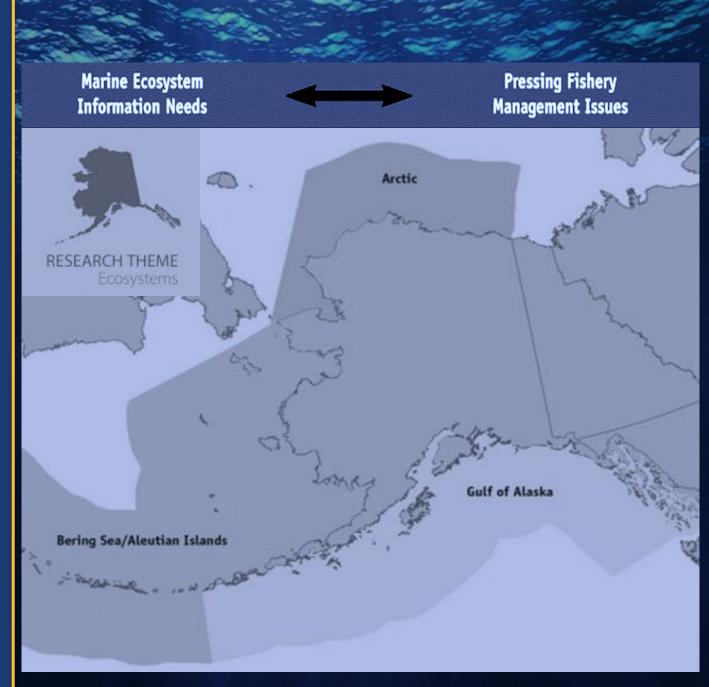
Proposal Success Rate

New Applicants





NPRB develops and implements multi-institution, interdisciplinary science projects through integrated ecosystem research programs





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Aleutian Islands Ecosystem Synthesis

- Retrospective and simulation modeling to update and advance understanding of the AI marine ecosystem.
- Integrate existing data to provide a new baseline and identify information gaps.



Phase I Pacific Marine Arctic Regional Synthesis of the Northern Bering, Chukchi, and Beaufort seas (PacMARS)



Intended to synthesize existing information to further understanding of the Bering Strait, Chukchi and Beaufort Seas

- Partnership of NPRB, NPMRI, NSF Office of Polar Programs
- Funding provided by Shell Exploration & Production and ConocoPhillips
- Coordinated with the Synthesis of Arctic Research program (BOEM)



Phase II Arctic Program

In May 2014 NPRB formalized its intention to commit \$6 million towards development of an integrated Arctic research program



Geographic Scope
The northern Bering Sea, Bering Strait, and Chukchi Sea



Phase II Arctic Program

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Research Question

How do physical and biological processes in the northern Bering Sea and Chukchi Sea influence distribution, abundance, and life history of species critical to ecosystem structure and species important to subsistence harvest?

How may those processes change over the coming fifty years?



Phase II Arctic Program

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- Patterns in subsistence use and response to ecosystem change
- Physical and biological drivers of species distribution and life history
- Influence of sea ice and advection on timing of production
- Identification of important thresholds or tipping points
- Influence of winter conditions (e.g., system reset)
- Benthic-pelagic coupling
- Modeling (e.g., ice-atmosphere-oceanography)



Preliminary Timeline

May 2015: Invitation for preproposals

October 2015: Invitation for Full Proposals Funding decision

July 2016: Program planning and coordination

March 2017: Initiation of field research



Collaboration: Shell/North Slope Baseline Studies Program, BOEM, OSRI

NPRB welcomes opportunities for partnerships that leverage resources to support coordinated research on marine systems in the Arctic and information on existing or planned studies.



Soliciting Nominations

Advisory Panel (3)
Gulf of Alaska
Bering Sea
At-large

Science Panel (3)
Biol. ocean.
Seabird ecol.
Fishery mgmt.

NPRB Board (1)
Fishing
industry seat



- Solicitations for nominations are available now
- Nominations (and self-nominations) are due February 27, 2015
- Submit to <u>susan.dixon@nprb.org</u>
- Board review and selection in May 2015
- Appointments to AP and SP effective June 1, 2015
- Fishing Industry Representative to NPRB subject to Secretary of Commerce appointment, and potentially effective July 21, 2015