

OCS Scientific Committee Meeting May 2013



Environmental Sciences Alaska OCS Region

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Arctic as Exciting Science Frontier:

- March June average temperature rising
- Sea Ice Extent declining
- Glaciers Shrinking and feeding riverine discharge
- Permafrost warming
- ❖ Landscape Drying → wildfires
- Invasive species and regime shift
- Ocean becoming more acidic
- Multilateral & Interdisciplinary efforts underway: IARPC, SEARCH, NOPP
- Management Planning is increasingly process focused: Arctic Management Report, Arctic Council "Arctic Resilience Report"





Interagency Arctic Research Policy Committee (IARPC)

- Consortium of 13 agencies across Federal system
- 2013-2017 Research Plan identifies 7 areas for collaboration:

Sea ice and marine ecosystem studies

Terrestrial ice and ecosystem studies

Atmospheric studies

Observing systems

Regional climate models

Adaptation tools for sustaining communities

Human health studies

12 "Implementation Teams"

Conceptual Model Workshop in DC (May 2013)

Develop a set of testable hypotheses





Current Ongoing Partnership Studies

NOAA	13	~ \$ 23,000,000
ADFG	3	~ \$ 12,400,000
CESU	3	~ \$ 6,800,000
Canada/DFO	2	~ \$ 6,300,000
UAF/CMI	12	~ \$ 4,500,000
USGS	6	~ \$ 2,703,000
NSSI	1	~ \$ 373,000
FWS	1	~ \$ 138,000
NPRB	1	~ \$ 20,000
TOTAL	42	~ \$ 56,234,000





Quick Figures:





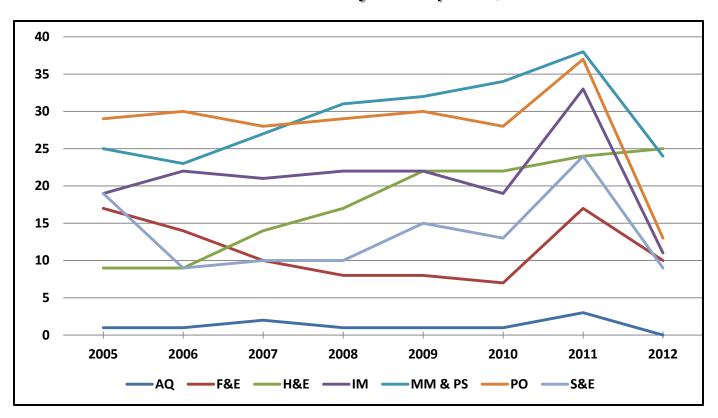
60 Ongoing Studies

10 Additional Studies Proposed ~ \$23M





Alaska Active Studies by Discipline, 2005-2012

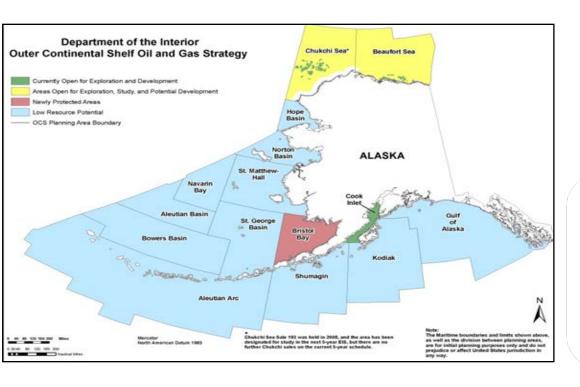


AQ: Air Quality, F&E: fates & Effects, H&E: Habitat & Ecology, IM: Information Management, MM & PS: Marine Mammals & Protected Species, PO: Physical Oceanography, S & E: Sociocultural & Economics





Alaska Proposed Sales:



ALASKA LEASING SCHEDULE:

2016 Chukchi LS 237 Cook Inlet LS 244

2017 Beaufort LS 242

- * Late in 5 year program
- * "targeted leasing" strategy





2013 Planned OCS Activities

- No exploration drilling to occur in the Chukchi or Beaufort seas in 2013
- TGS proposing a Geological & Geophysical (G&G) survey in the Chukchi Sea
 - BOEM is evaluating the permit application
 - BOEM is preparing an Environmental Assessment (EA) and is seeking public comment on issues to consider in the EA from now until May 10, 2013
 - G&G activities proposed from July 15 October 31, 2013
 - The website is: www.regulations.gov. Docket ID: BOEM-2013-0018
- SAExploration proposing a G&G survey in the Beaufort Sea
 - G&G activities proposed from July 1 to October 15, 2013 (application not yet complete)
- Shell is considering 'ancillary activities' on some of its Chukchi Sea leases
 - Geophysical surveys to gather data on ice gouges, shallow hazards, and other seafloor conditions on select Chukchi Sea leases; mid-July to mid- October 2013
 - BOEM is in the environmental review process
- BPXA conducting ancillary activities at Liberty Prospect (Beaufort Sea)
 - Activities proposed to be conducted from April 1 to May 31, 2013





Beyond 2013

Exploration Activities – Chukchi Sea

- Shell, ConocoPhillips, Statoil and others have active leases in the Chukchi Sea and may propose to explore their leases
- G&G Permit Applications possible
- Ancillary Activities possible

BOEM Actions

- Chukchi Sea lease sale is scheduled for 2016.
 - We want your feedback. Opportunities include:
 - Call for Information and Nominations
 - Draft EIS and Final EIS
 - Proposed Notice of Sale
- Track proposed mitigation at:







Tribal and Community Outreach

Reaching into our communities takes many forms





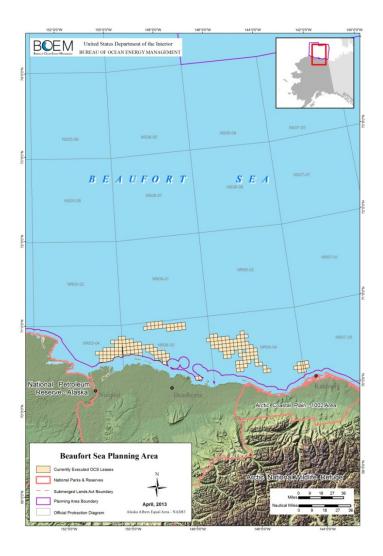


BOEM stays in touch with –

- Invitation e-Letters to leaders (for events)
- Calls, Post Cards, Posters & Handbills
- Use of Public Radio Stations KOTZ, KBRW with interviews, announcements
- Use of CB Radio
- Teleconferencing
- Published notices in Arctic Sounder,
 Nome Nugget, or Daily News
 ...and more





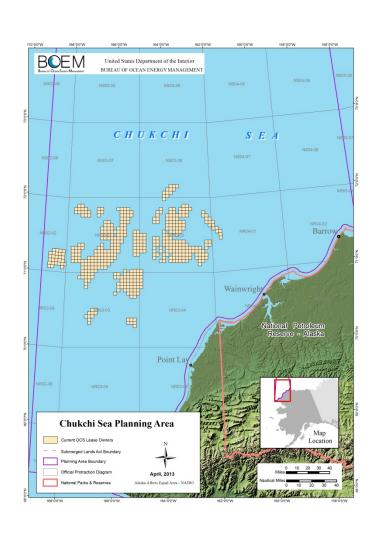


Proposed Studies Beaufort Sea Planning Area

- Data Interface Tools to Support Environmental Analyses: Interpretation of Existing Marine Mammal Data (includes: Chukchi Sea & Cook Inlet Planning Areas)
- Genomics of Arctic Cod: A Sentinel Species in a Changing Environment (Includes: Chukchi Sea Planning Area)
- Physical and Chemical Analyses of Crude and Refined Oils: Laboratory and Mesoscale Oil Weathering (Includes all Alaska Planning Areas)





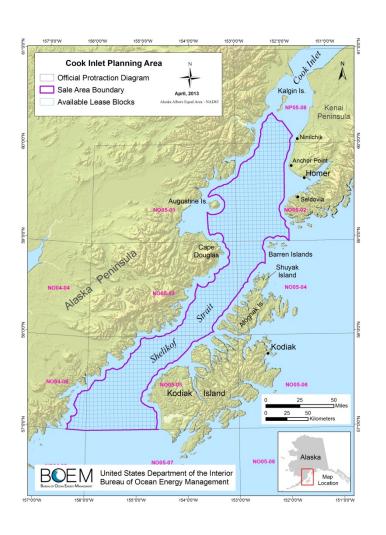


Proposed Studies Chukchi Sea Planning Area

- Subsistence Mapping of Wainwright, Point Lay, and Point Hope
- Polar Bear Habitat Use, Ecology, and Population Status in the Chukchi Sea
- Integrated Seabed Surveys in the Arctic Ocean: Bathymetry, Archaeological Resources, and Ice Gouge Magnitude and Recurrence Rates







Cook Inlet Planning Area: LS 244

Proposed Studies Cook Inlet Planning Area

- Cook Inlet Circulation Model Calculations
- Ecological Processes in Lower Cook Inlet and Kachemak Bay: Monitoring Partnership
- Benthic Invertebrate Habitats in Cook Inlet
- Baleen Whale Distribution, Abundance, and Ecology in Cook Inlet and Shelikof Strait

