BOEM Arctic Research Update

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Select Ongoing Arctic Field Studies

- Characterization of the Circulation on the Continental Shelf Areas of the NE Chukchi and Western Beaufort Seas
- Arctic Tracer Release Experiment (ARCTREX): Applications for Mapping Spilled Oil
- ANIMIDA III: Boulder Patch and Other Kelp Communities in the Development Area
- ANIMIDA III: Contaminants, Sources, and Bioaccumulation
  - Distribution of Fish, Crab and Lower Trophic Communities in the Chukchi Sea Lease Area
  - Shorebirds and Infaunal Abundance and Distribution on Delta Mudflats along the Beaufort Sea
  - Wading Shorebird Habitats, Food Resources, Associated Infauna, Sediment Characteristics and Bioremediation Potential of Resident Microbiota of Deltaic Mudflats
- U.S.-Canada Transboundary Fish and Lower Trophic Communities
- Distribution and Habitat Use of Fish in the Nearshore Ecosystem of the Beaufort and Chukchi Seas
- Marine Arctic Ecosystems Study (MARES): A Multi-Agency NOPP Partnership
  - Distribution and Relative Abundance of Marine Mammals in the Chukchi Sea and the Fall Migration of Bowhead Whales in the Beaufort
  - Satellite Tracking of Bowhead Whales: Habitat Use, Passive Acoustic and Environmental Monitoring
- Chukchi Acoustic, Oceanography and Zooplankton Study (CHAOZ): Hanna Shoal
- Arctic Whale Ecology Study (ARCWEST): Use of the Chukchi Sea by Endangered Baleen and Other Whales
  - Pinniped Movements and Foraging: Walrus Habitat Use in the Potential Drilling Area
  - Walrus Seasonal Distribution and Habitat Use in the Eastern Chukchi Sea
More Arctic Studies…

- Arctic Air Quality Impact Assessment Modeling
- Development of an Accurate Model of the Beaufort and Chukchi Ice Drift and Dispersion for Sea Level Measurements along the Alaskan Chukchi and Beaufort Coasts
- Forecasting Spill Trajectories and Providing Decision Support for Spill Response
- Development and Testing of a Low-Cost Satellite-Tracking Ice Drifter for Arctic Waters
- Distribution and Abundance of Select Trace Metals in Chukchi and Beaufort Sea Ice
- Crude Oil Infiltration and Movement in First-year Sea Ice: Impacts on Ice-associated Biota and Physical Constraints
- Biodegradation and Transport of Crude Oil in Sand and Gravel Beaches of Arctic Alaska
- Hanna Shoal Ecosystem Study
- Synthesis of Arctic Research (SOAR) Physics to Marine Mammals in the Pacific Arctic
- Physical and Chemical Analyses of Crude and Refined Oils: Laboratory and Mesoscale Oil Weathering

BOEM’s contribution to the studies listed here totals more than $60 Million
Studies Planned for FY 2015

- Initiating an Arctic Marine Biodiversity Observing Network (AMBON) for Ecosystem Monitoring
- Enhanced Verification and Interpretation of Freeze-up Conditions for the Northeast Chukchi Shelf: Field Observations and Process Studies; Freeze-up Forecasts; and BOEM Sea Ice Database Enhancements
- Arctic Research Synthesis Conference
- Development of a Very High-resolution Regional Circulation Model of Beaufort Sea Nearshore Areas
- Synthesis of Sub-Seabed Physical Environmental Data for the Beaufort and Chukchi Seas
- Traditional Knowledge Implementation: Accessing Arctic Community Panels of Subject Matter Experts
- Estimation of Abundance and Demographic Rates of Pacific Walruses Using a Genetics-based Mark-Recapture Approach

- And several studies in Cook Inlet
All this and more!

2015 Alaska Studies Plan
http://www.boem.gov/akstudies

Have ideas for studies for FY 2016?

Send an email by November 24, 2014, to the BOEM Alaska Studies Plan Coordinator:

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