



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



- **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-Tracked 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

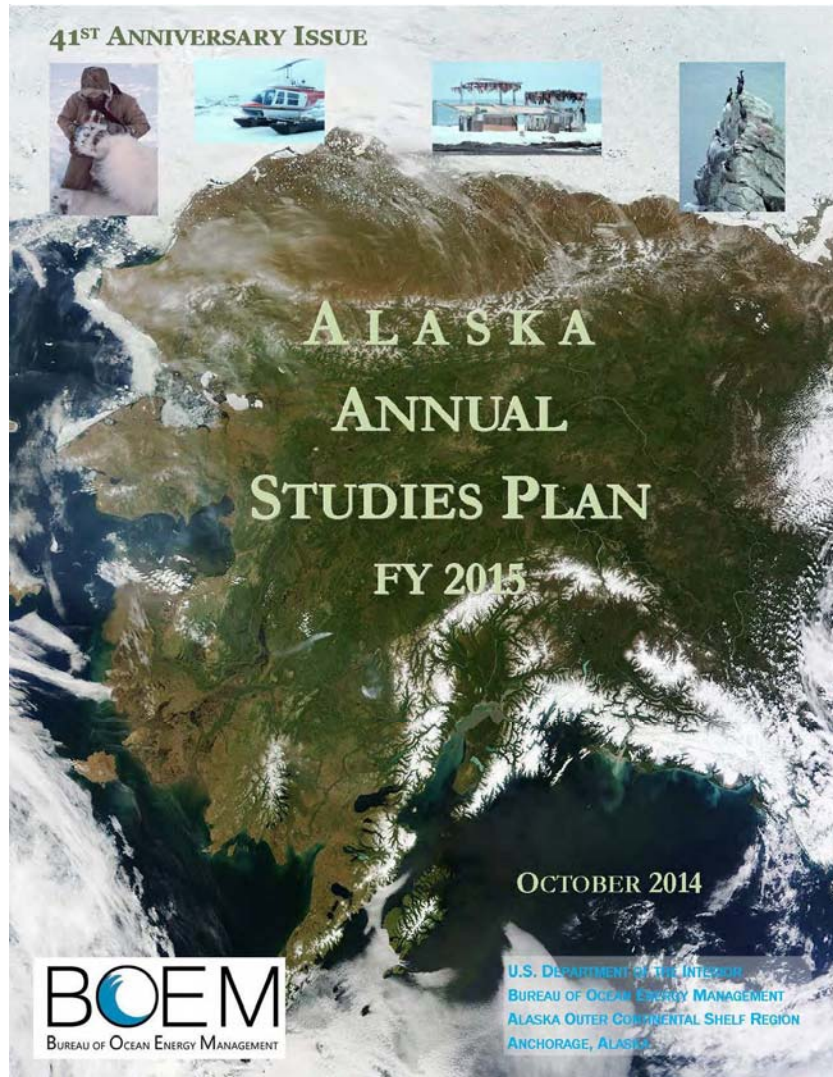


- **Initiating an Arctic Marine Biodiversity Observing Network (AMBON) for Ecosystem Monitoring**
- **Enhanced Verification and Interpretation of Freeze-up Conditions for the Northeast Chukchi Shelf: Field Observations and Process Studies; Freeze-up Forecasts; and BOEM Sea Ice Database Enhancements**
- 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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