

Bureau of Ocean Energy Management Environmental Studies Program Alaska Outer Continental Shelf Bibliography 1990–2021



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CITATION

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ABOUT THE COVER

Top left: Participants, in a Bureau of Ocean Energy Management (BOEM)-sponsored University of Alaska Coastal Marine Institute study, photograph king and common eiders migrating past Point Barrow, Alaska, 2016. BOEM photo by Wildlife Conservation Society staff.

Top right: In a study BOEM partnered in, scientists photograph Cook Inlet shorelines for Alaska ShoreZone. BOEM photo by Alaska ShoreZone.

Bottom left: University of Alaska and BOEM meteorological buoy deployed from the U.S. Icebreaker Healy. BOEM photo by Woods Hole Oceanographic Institution staff.

Bottom right: Participants in the BOEM-sponsored study *Aerial Surveys of Arctic Marine Mammals*, photograph bowhead whales. BOEM photo by Suzie Hanlan.

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List of Abbreviations and Acronyms

ACES	aerial calibration experiments
AIDJEX	Arctic ice dynamics joint experiment
AFSC	Alaska Fisheries Science Center
AK	Alaska
AMBON	Arctic marine biodiversity observing network
AMOP	Arctic and Marine Oilspill Program
ANIMIDA	Arctic nearshore impact monitoring in development area
ARCWEST	Arctic whale ecology study
ARCTREX	Arctic tracer release experiment
AVHRR	advanced very-high-resolution radiometer
BCB	Bering-Chukchi-Beaufort
BIOS	Baffin Island oil spill
BLM	Bureau of Land Management
BOEM	Bureau of Ocean Energy Management
BOEMRE	Bureau of Ocean Energy Management, Regulation, and Enforcement
BOWFEST	bowhead whale feeding ecology study
BWASP	bowhead whale aerial survey project
C	carbon
CAB	chemical and benthos
cANIMIDA	continuation of Arctic nearshore impact monitoring in development area
CBHAR	Chukchi-Beaufort high resolution atmospheric reanalysis
CHAOZ-X	Chukchi Sea acoustics, oceanography, and zooplankton study extension
CIOM	coupled ice-ocean model
CMI	Coastal Marine Institute
CMIP5	Climate Model Intercomparison Project Phase 5
CO ₂	carbon dioxide
CODAR	Coastal Ocean Dynamic Applications Radar
COMIDA	Chukchi offshore monitoring in drilling area
COZOIL	coastal and surf zone oil-spill-transport model
DES	Division of Environmental Sciences
DNA	deoxyribonucleic acid
EIS	ecosystem integrated survey
ESP	Environmental Studies Program
ESPIIS	Environmental Studies Program Information System
FLIR	forward looking infrared
GBS	genotyping-by-sequencing
GIS	geographic information system

GOM	Gulf of Mexico
HCH	hexachlorocyclohexane
HF	high frequency
IMPAK	Impact of petroleum activities in Alaska
LEO	local environmental observer
LLC	limited liability corporation
MARES	marine Arctic ecosystem study
MMS	Minerals Management Service
MPM	material point method
N	nitrogen
NE	northeast
NIST	National Institute of Standards and Technology
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NPR-A	National Petroleum Reserve-Alaska
NPS	National Park Service
NWR	National Wildlife Refuge
OCS	Outer Continental Shelf
OCSEAP	Outer Continental Shelf Environmental Assessment Program
OGCM	ocean general circulation model
OSRA	oil spill risk analysis
PAC	Pacific
PCB	polychlorinated biphenyls
PMEL	Pacific Marine Environmental Laboratory
Pt.	Point
RNA	ribonucleic acid
SAR	synthetic aperture radar
SIOMS	sea-ice and ocean modeling system
SOAR	synthesis of Arctic research
St.	Saint
SWOT	strengths, weaknesses, opportunities, threats
US	United States
USDOC	U.S. Department of Commerce
USDOI	U.S. Department of the Interior
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
vs.	versus
WRF	weather research and forecasting model
WRFDA	weather research forecasting model data assimilation

1 Introduction

The mission of the U.S. Department of the Interior's Bureau of Ocean Energy Management (BOEM) is to manage the energy and mineral resources of the United States Outer Continental Shelf (OCS) in an environmentally and economically responsible way. In support of this stewardship responsibility, BOEM develops, funds, and manages rigorous scientific research through its Environmental Studies Program (ESP) specifically to inform its decision-making processes. Since 1973, the ESP has invested nearly \$1.25 billion in research, nationwide. The ESP¹ is multidisciplinary in nature and develops the information required to assess and manage the impacts of OCS exploration and development activities on the environment.

BOEM's Division of Environmental Studies (DES) is responsible for the technical management of the ESP and coordinates among the Bureau's four regions: Atlantic, Gulf of Mexico, Pacific, and Alaska. BOEM's ESP conducts environmental studies and monitoring programs to acquire information on the human, marine, and coastal environments. Research covers physical oceanography, atmospheric sciences, biology, protected species, social sciences, economics, submerged cultural resources, and environmental fates and effects. The ESP has produced a considerable body of information about the Alaska OCS, and a great deal of that science has found its way into professional, peer-reviewed literature.

This BOEM Alaska OCS Bibliography is the result of efforts by the Alaska Regional Office and DES. It lists ESP OCS Study reports and associated research articles from 1990–2021 that have appeared in professional, peer reviewed journals, book chapters, and published conference proceedings. Research articles listed include BOEM ESP full or partial funding, data, or samples. The research articles referenced are not available from the ESP but should be obtainable from libraries which subscribe to the requisite journals.

This bibliography contains 454 ESP OCS Study reports and 816 external publications about the Alaska OCS and adjacent areas. The bibliography is not exhaustive as it contains only those articles BOEM has identified to date. Through time, the ability to search external publications and identify the source(s) of funding has become more robust. BOEM is now able to search for and identify author acknowledgement of ESP samples, data, or full or partial funding that was not previously possible. Historical information regarding external publications in the 1990s and 2000s was taken from both the Environmental Studies Program Information System (ESPIS) and bibliographic software programs maintained internally by the BOEM Alaska Regional Office and its predecessors. This bibliography does not list the Outer Continental Shelf Environmental Assessment Program (OCSEAP) reports. The majority of those reports, funded by BLM and MMS, were completed prior to 1990; a reference to the OCSEAP bibliography completed in 1990 is provided.

One of the responsibilities of DES is the development of a computerized information system to track ESP projects and resulting reports. ESPIS presents information about ongoing and completed BOEM ESP

¹ The Minerals Management Service (MMS), a predecessor of BOEM, was formed in 1982 from elements of the Bureau of Land Management (BLM) and the U.S. Geological Survey. In 1973, prior to the formation of MMS, BLM initiated the Environmental Studies Program (ESP) as mandated by Section 20 of the Outer Continental Shelf Lands Act. Since BOEM's formation in 2011, it has been responsible for the continued operation of the ESP.

studies. The ESPIS search tool allows text and map-based queries to find relevant study information. Study information includes downloadable electronic documents of study descriptions, technical summaries, final reports, and links to associated publications and digital data required by the ESP data and information specifications. The ESPIS search tool is hosted on a shared platform with MarineCadastre.gov, which is developed in partnership with the U.S. Department of Commerce (USDOC), National Oceanic and Atmospheric Administration (NOAA), Office for Coastal Management. Further information or access to any of the reports listed in this publication can be found on ESPIS by using the search tool <https://boem.gov/espis>.

To find information about a study in ESPIS, type in the OCS Study number. For OCS Study BOEM 2009-014, type 2009-014 in the search field named FIND and it will bring up results matching your search (Figure 1). Select the study you are interested in and a wealth of information, including abstract, study footprint, study information, study reports and documents, related publications, and data products for the study, is displayed (Figure 2).

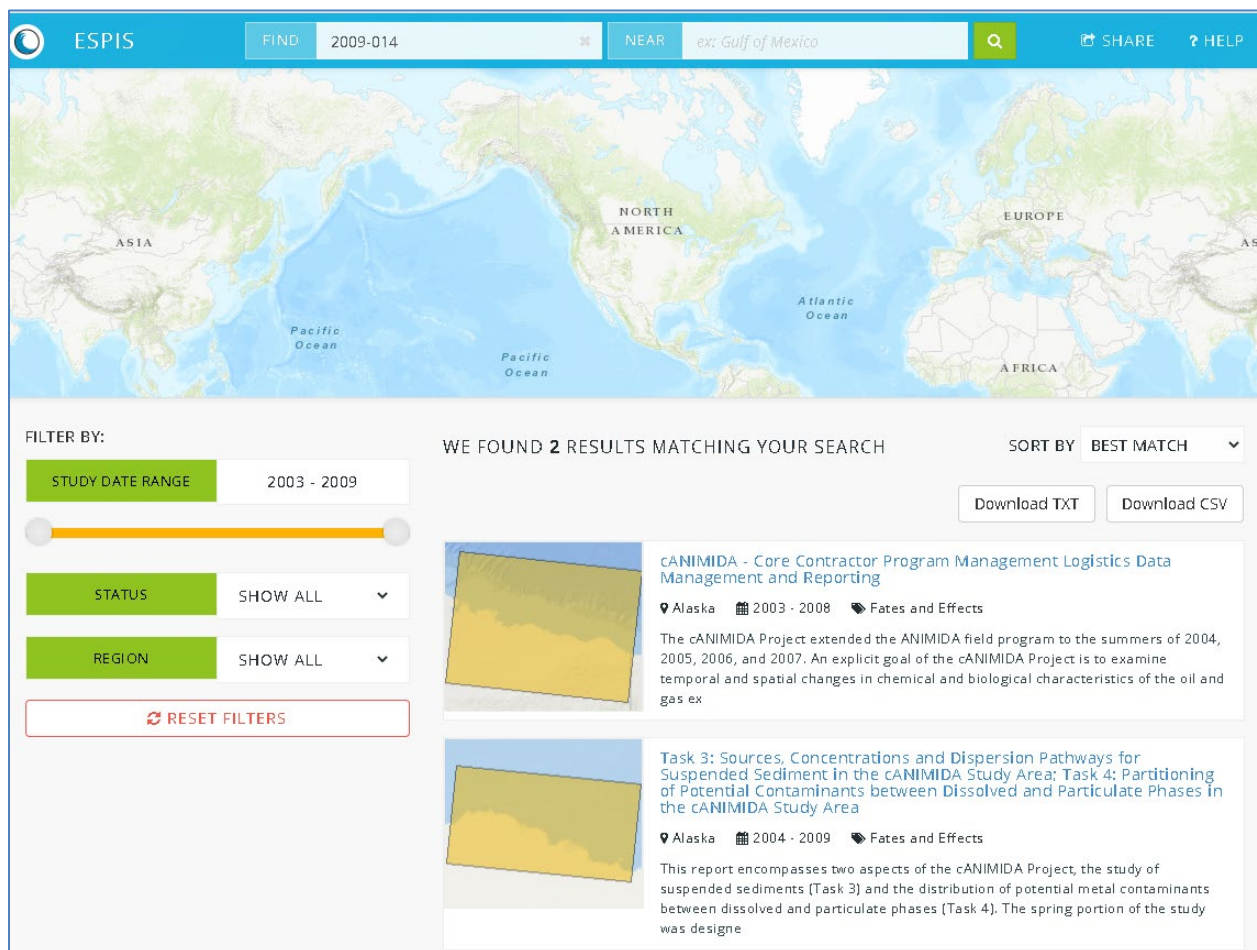


Figure 1: Example Results of an ESPIS Search by the OCS Study Report Number

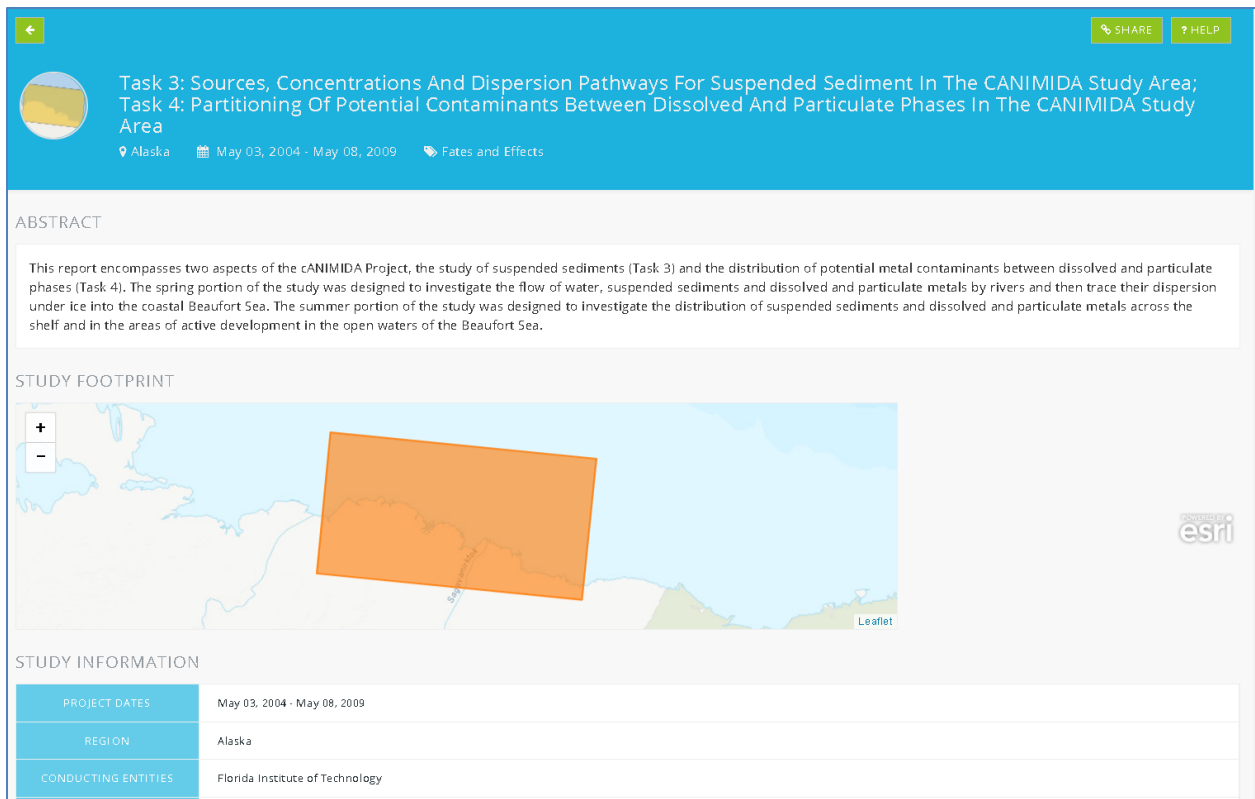


Figure 2: Example ESPIS Information about an OCS Study Report and Products

2 BOEM Alaska OCS Study Reports and External Publications

This BOEM Alaska OCS bibliography of OCS Study reports and external publications is divided into three sections for easy reference. The first section lists all BOEM Alaska OCS Study reports from 1990–2021 sorted by year and then author². The second section is a listing of all journal articles, books, book chapters, and published conference proceeding papers sorted by year and then author. Each of these external publications involve full or partial funding, data, or samples from the BOEM ESP. In recent years, with the advent of big data, it is possible to track external publications and their funding contributions, including data and samples, more readily. The third section is a combined listing of all BOEM Alaska OCS Study reports and external publications sorted alphabetically by author over the timeframe 1990–2021.

2.1 BOEM Alaska OCS Study Reports by Year

This section includes all OCS Study report references for the Alaska OCS from 1990–2021 sorted by year and then author. It includes ESP funded studies as well as in-house OCS Study reports.

² All URLs were accessed on May 3, 2022.

2021

- Arimitsu M, Schoen S, Piatt J, Marsteller C, Drew G (USGS, Alaska Science Center, Anchorage, AK). 2021. Monitoring the recovery of seabirds and forage fish following a major ecosystem disruption in lower Cook Inlet. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 50 p. Report No.: OCS Study BOEM 2021-031. https://espis.boem.gov/final%20reports/BOEM_2021-031.pdf
- Brubaker M, Brook M, Lujan E, Mack D (Alaska Native Tribal Health Consortium, Anchorage, AK). 2021. Community based monitoring in Arctic and Cook Inlet coastal zones: extension of the local environmental observer (LEO) network. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 29 p. Report No.: OCS Study BOEM 2021-050. https://espis.boem.gov/final%20reports/BOEM_2021-050.pdf
- Iken K, Danielson S, Hopcroft R, Mueter F, Grebmeier J, Cooper L, Stafford K, Bluhm B, Kuletz K, Moore S (University of Alaska, Fairbanks, AK). 2021. Initiating an Arctic marine biodiversity observing network (AMBON). Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 61 p. Report No.: OCS Study BOEM 2021-017. https://espis.boem.gov/final%20reports/BOEM_2021-017.pdf
- Johnson MA, Mahoney AR. 2021. Measuring wave forces along Alaska's coastal sea ice. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 78 p. Report No.: OCS Study BOEM 2021-019. https://espis.boem.gov/final%20reports/BOEM_2021-019.pdf
- Kasper J, Castellote M, Seitz A, Stafford K, Courtney M, Brown E (University of Alaska, Fairbanks, AK). 2021. Yakutat wave energy converter impact assessment. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 221 p. Report No.: OCS Study BOEM 2021-055. https://espis.boem.gov/final%20reports/BOEM_2021-055.pdf
- Kelley A. 2021. High-frequency characterization of the physicochemical parameters of Cook Inlet, Alaska. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 22 p. Report No.: OCS Study BOEM 2021-018. https://espis.boem.gov/final%20reports/BOEM_2021-018.pdf
- Konar B. 2021. Coastal Marine Institute annual report 27, calendar year 2020. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 50 p.
- Marsh JM, Mueter FJ, Pirtle J (University of Alaska, Fairbanks, AK). 2021. Model-based fish distributions and habitat descriptions for Arctic cod (*Boreogadus saida*), saffron cod (*Eleginus gracilis*) and snow crab (*Chionoecetes opilio*) in the Alaskan Arctic. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 58 p. Report No.: OCS Study BOEM 2021-056. https://www.boem.gov/sites/default/files/documents/regions/alaska-ocs-region/BOEM_2021-056.pdf
- Michel J (Research Planning, Inc., Columbia, SC and Industrial Economics, Inc., Cambridge, MA), editor. 2021. Oil spill effects literature study of spills of 500–20,000 barrels of crude oil, condensate, or diesel. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 236 p. Report No.: OCS Study BOEM 2021-048. https://espis.boem.gov/final%20reports/BOEM_2021-048.pdf

Seitz AC, Courtney MB, Boustany S, Miller E, Van Houtan K, Catterson M, Pawluk J. 2021. Ocean migration and behavior of steelhead kelts in Alaskan OCS oil and gas lease areas, examined with satellite telemetry. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 33 p. Report No.: OCS Study BOEM 2021-067. https://espis.boem.gov/final%20reports/BOEM_2021-067.pdf

2020

Clarke JT, Brower AA, Ferguson MC, Willoughby AL, Rotrock AD (USDOC, NOAA, NMFS, Alaska Fisheries Science Center, Marine Mammal Laboratory, Seattle, WA). 2020. Distribution and relative abundance of marine mammals in the eastern Chukchi Sea, eastern and western Beaufort Sea, and Amundsen Gulf, 2019. Final report. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 628 p. Report No.: OCS Study BOEM 2020-027. https://espis.boem.gov/final%20reports/BOEM_2020-027.pdf

Konar B. 2020. Coastal Marine Institute annual report 26, calendar year 2019. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 59 p.

Larsen Tempel J. 2020. CMI graduate student projects: volume 4. Life Without ice: climate change and the subsistence communities of St. Lawrence Island. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 35 p. Report No.: OCS Study BOEM 2020-063. <https://www.boem.gov/regions/alaska-ocs-region/boem2020-063>

Leigh MB, Hardy S, Walker A, Gofstein T. 2020. Microbial biodegradation of Alaska North Slope crude oil and Corexit 9500 in the Arctic marine environment. Fairbanks (AK): University of Alaska Coastal Marine Institute and U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 65 p. Report No.: OCS Study BOEM 2020-033. https://espis.boem.gov/final%20reports/BOEM_2020-033.pdf

Robertson T, Campbell LK, Fletcher S (Nuka Research and Planning Group, LLC, Seldovia, AK). 2020. Oil spill occurrence rates from Alaska North Slope oil and gas exploration, development, and production. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 84 p. Report No.: OCS Study BOEM 2020-050. https://espis.boem.gov/final%20reports/BOEM_2020-050.pdf

Robertson T, Campbell LK, Fletcher S (Nuka Research and Planning Group, LLC, Seldovia, AK). 2020. Oil spill occurrence rates for Cook Inlet Alaska oil and gas exploration, development, and production. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 81 p. Report No.: OCS Study BOEM 2020-051. https://espis.boem.gov/final%20reports/BOEM_2020-051.pdf

Wiese FK, Ashjian C, Asplin K, Borg M, Fabijan M, Fissel DB, Gryba RD, Gong R, Harvey R, Lin P, et al. (Stantec Consulting, Ltd., Chantilly, VA). 2020. Marine Arctic ecosystem study (MARES): moorings on the Beaufort Sea shelf (2016–2018) and program synthesis. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 286 p. Report No.: OCS Study BOEM 2020-029. https://espis.boem.gov/final%20reports/BOEM_2020-029.pdf

2019

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- Clarke JT, Brower AA, Ferguson MC, Willoughby AL (USDOC, NOAA, NMFS, Alaska Fisheries Science Center, Marine Mammal Laboratory, Seattle, WA). 2019. Distribution and relative abundance of marine mammals in the eastern Chukchi and eastern and western Beaufort seas 2018. Annual report. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 474 p. Report No.: OCS Study BOEM 2019-021. https://espis.boem.gov/final%20reports/BOEM_2019-021.pdf
- Dunton KH, Bonsell CE, Iken K, Konar B, Muth AF, Schonberg SV (University of Texas, Marine Science Institute, Port Aransas, TX). 2019. ANIMIDA III boulder patch and other kelp communities in development area final report. Anchorage (AK): U.S. Department of the Interior, Bureau of Ocean Energy Management, Alaska OCS Region. 172 p. Report No.: OCS Study BOEM 2019-053. https://espis.boem.gov/final%20reports/BOEM_2019-053.pdf
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2018

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2.2 BOEM Alaska OCS External Publications by Year

This section includes peer reviewed journal articles, books, book chapters, and published conference proceeding papers sorted by year and then author. The references below include BOEM and its predecessors' full or partial funding or data or sample contributions to the work.

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