

**NOAA Article Update Summary Monthly Report\_06/01/2020\_07:32**

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**Data Series**

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Coral Reef Conservation Program (CRCP)	Local Biomass Baselines and the Recovery Potential for Hawaiian Coral Reef Fish Communities
Coral Reef Conservation Program (CRCP)	Long-term monitoring of coral reef fish assemblages in the Western central pacific
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Coral Reef Conservation Program (CRCP)	Potential Structuring Forces on a Shelf Edge Upper Mesophotic Coral Ecosystem in the US Virgin Islands
Coral Reef Conservation Program (CRCP)	Reporte: Estado de los arrecifes de coral en Puerto Rico
Coral Reef Conservation Program (CRCP)	Status of seagrasses fishes and macro-invertebrates at Teluleu Conservation Area from 2011 to 2018
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Integrated Ecosystem Assessment (IEA)	Submarine canyons represent an essential habitat network for krill hotspots in a Large Marine Ecosystem

National Environmental Policy Act (NEPA)	Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Analysis for Amendment 69 to the FMP for Groundfish of the GOA to Modify the TAC Calculation for the "Other Species" Complex and Regulatory Amendment to Raise the Maximum Retainable Amount of "Other Species" in the Arrowtooth Flounder Fishery
National Environmental Policy Act (NEPA)	Environmental Assessment: Reducing the Impact on At-Risk Salmon and Steelhead by California Sea Lions in the Willamette River
National Environmental Policy Act (NEPA)	Final Report and Recommendations of the Bonneville Pinniped-Fishery Interaction Task Force, Marine Mammal Protection Act, Section 120, 5-Year extension
National Environmental Policy Act (NEPA)	Final Supplement to the Final Damage Assessment and Restoration Plan and Environmental Assessment for the Koppers Site, Charleston, South Carolina
National Environmental Policy Act (NEPA)	Regulatory Impact Review/Environmental Assessment/Initial Regulatory Flexibility Analysis for Proposed Amendment 92 to the Fishery Management Plan for Groundfish of the Bering Sea/Aleutian Island Management Area and Amendment 82 to the Fishery Management Plan for Groundfish of the Gulf of Alaska
National Environmental Policy Act (NEPA)	Report on Consideration of Statutory Factors under Section 120 of the MMPA
National Environmental Policy Act (NEPA)	Supplemental Environmental Assessment: Reducing the Impact on At-risk Salmon and Steelhead by California Sea Lions in the Area Downstream of Bonneville Dam on the Columbia River, Oregon and Washington

National Environmental Policy Act (NEPA)	Supplemental Information Report in Response to the August 18, 2011 Application by Idaho, Oregon, and Washington for Lethal Removal Authority under Section 120 of the Marine Mammal Protection Act
National Environmental Policy Act (NEPA)	Supplemental Information Report to the 2008 Final Environmental Assessment - Reducing the Impact on At-Risk Salmon and Steelhead by California Sea Lions in the Area Downstream of Bonneville Dam on the Columbia River, Oregon and Washington
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National Environmental Satellite and Data Information Service (NESDIS)	Impact of sanitation and socio-economy on groundwater fecal pollution and human health towards achieving sustainable development goals across India from ground-observations and satellite-derived nightlight
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National Marine Fisheries Service (NMFS)	2011 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2011
National Marine Fisheries Service (NMFS)	2012 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2012
National Marine Fisheries Service (NMFS)	2012 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2012
National Marine Fisheries Service (NMFS)	2013 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2013
National Marine Fisheries Service (NMFS)	2014 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2014

National Marine Fisheries Service (NMFS)	2015 Field Report: Evaluation of Pinniped Predation on Adult Salmonids and Other Fish in the Bonneville Dam Tailrace, 2015
National Marine Fisheries Service (NMFS)	2019 Annual Report to the Western and Central Pacific Fisheries Commission United States of America : Part 1. Information on fisheries, research, and statistics (through 2018)
National Marine Fisheries Service (NMFS)	2019 Status and Needs of Non-Formal and Formal (K-12) Environmental Educators Across Pennsylvania
National Marine Fisheries Service (NMFS)	A Discrete Choice Experiment Data Collection of U.S. West Coast Saltwater Anglers, 2017 : Methodology and Response
National Marine Fisheries Service (NMFS)	A Novel Cardiotoxic Mechanism for a Pervasive Global Pollutant
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National Marine Fisheries Service (NMFS)	Biological Opinion on the Federally Regulated Oil and Gas Program Activities in the Gulf of Mexico
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National Marine Fisheries Service (NMFS)	Caryospora-Like Coccidia Infecting Green Turtles ( <i>Chelonia mydas</i> ): An Emerging Disease With Evidence of Interoceanic Dissemination
National Marine Fisheries Service (NMFS)	Coho salmon spawner mortality in western US urban watersheds: bioinfiltration prevents lethal storm water impacts



National Marine Fisheries Service (NMFS)	Comparative Genomic Analysis of <i>Vibrio</i> <i>diabolicus</i> and Six Taxonomic Synonyms: A First Look at the Distribution and Diversity of the Expanded Species
National Marine Fisheries Service (NMFS)	Comparative Health Assessments of Alaskan Ice Seals
National Marine Fisheries Service (NMFS)	Comparison of microbiomes of cold-water corals <i>Primnoa pacifica</i> and <i>Primnoa</i> <i>resedaeformis</i> , with possible link between microbiome composition and host genotype
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National Marine Fisheries Service (NMFS)	Crude oil exposures reveal roles for intracellular calcium cycling in haddock craniofacial and cardiac development

National Marine Fisheries Service (NMFS)	Cruise Results : NOAA Fisheries Research Vessel Albatross IV, Cruise No. AL 05-05, Late Spring Ecosystem Monitoring Survey
National Marine Fisheries Service (NMFS)	Cruise Results : NOAA Fisheries Research Vessel Albatross IV, Cruise No. AL 05-07, Late Summer Ecosystem Monitoring Survey/EPA National Coastal Assessment Survey
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National Marine Fisheries Service (NMFS)	Cruise Results : NOAA Fisheries Research Vessel Delaware II, Cruise No. DE 09-11, Ecosystems Monitoring Survey and NASA Ground Truth Measurements
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National Marine Fisheries Service (NMFS)	CTD Report : 2005 Spring Bottom Trawl Survey, ALB0503
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National Marine Fisheries Service (NMFS)	Demographic histories and genetic diversity across pinnipeds are shaped by human exploitation, ecology and life-history
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National Marine Fisheries Service (NMFS)	Discrete, high-latitude foraging areas are important to energy budgets and population dynamics of migratory leatherback turtles
National Marine Fisheries Service (NMFS)	Disease Prevalence and Snail Predation Associated with Swell-Generated Damage on the Threatened Coral, <i>Acropora palmata</i> (Lamarck)
National Marine Fisheries Service (NMFS)	Disturbance modifies payoffs in the explore-exploit trade-off

National Marine Fisheries Service (NMFS)	Draft for Secretarial Review - Environmental Assessment / Regulatory Impact Review / Initial Regulatory Flexibility Analysis for a Regulatory Amendment to Implement Guideline Harvest Level Measures (GHL) in the Halibut Charter Fisheries in International Pacific Halibut Commission Regulatory Area 2C
National Marine Fisheries Service (NMFS)	Ecosystem experiment reveals benefits of natural and simulated beaver dams to a threatened population of steelhead ( <i>Oncorhynchus mykiss</i> )
National Marine Fisheries Service (NMFS)	Ecosystem Sciences Division Standard Operating Procedures: Data Collection for Rapid Ecological Assessment Benthic Surveys, 2019 Update
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National Marine Fisheries Service (NMFS)	Effects of an invasive predator cascade to plants via mutualism disruption
National Marine Fisheries Service (NMFS)	Effects of local climate on loggerhead hatchling production in Brazil: Implications from climate change
National Marine Fisheries Service (NMFS)	Embryonic Crude Oil Exposure Impairs Growth and Lipid Allocation in a Keystone Arctic Forage Fish
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) Consultation for the Replacement of the West Cashmere Bridge over the Wenatchee River in Chelan County, Washington (170200110707 Olalla Canyon-Wenatchee River).

National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for the Enloe Dam Safety Repair and Maintenance Projects.
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for the Swauk Pine Restoration Project
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion Ice Exercise 2020 NMFS Consultation Number: AKRO-2019-02445
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion National Park Service Monitoring activities in Alaska's National Parks: Glaucous-winged Gull and Climate Monitoring & Research in Glacier Bay National Park, Alaska and Marine Bird and Mammal Monitoring in National Parks and adjoining coastlines in the Northern Gulf of Alaska NMFS Consultation Number: AKR-2019-9851
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion on the Issuance of a Letter of Authorization under section 101(a)(5)(A) of the Marine Mammal Protection Act to Hilcorp Alaska, LLC and Eni U.S. Operating Co. Inc. for the Construction, Maintenance, and Use of Sea Ice Roads and Trails on the North Slope, Beaufort Sea, Alaska, 2020 to 2025 NMFS Consultation Number: AKRO-2019-00194

National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion Port of Alaska's Petroleum and Cement Terminal, Anchorage, Alaska, NMFS Consultation Number: AKRO-2018-01332
National Marine Fisheries Service (NMFS)	Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion Sitka Dock North Dolphins Expansion Project AKR0-2019-02310
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7 Programmatic Conference and Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for Standard Local Operating Procedures for Endangered Species to fund actions under the Stafford Act Authorized or Carried Out by the Federal Emergency Management Agency in Oregon, Washington, and Idaho (FEMA Endangered Species Programmatic [FESP])
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Deer Harbor Marina Float Addition Project, San Juan County, Washington, COE Number: NWS-2019-50
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Interstate 5 Horseshoe Lake Pump Station Project

National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Medford Airport Capital Improvement Plan Projects, Whetstone Creek – Rogue River and Larson Creek – Bear Creek (6th field HUC Nos.: 171003080202 and 171003080110), Jackson County, Medford, Oregon
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National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion O'Connell Bridge Lightering Float Pile Replacement Project, Sitka, Alaska
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National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for the Iron Creek Road Repair Project, HUC #170602030206 – Lower Iron Creek, Lemhi County, Idaho
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response and Fish and Wildlife Coordination Act Recommendations for the Rowdy Creek Hatchery (Project)

National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Buckhorn Dam Outlet Channel Maintenance Project in Trinity County, California (file number NC-311, 2.2.1.06)
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Clatsop County Dock Boat Ramp and Dock Replacement, Westport Slough, Oregon (HUC 170800030801, COE Number NWP-2019-93.)
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Dominie Creek Fish Passage Project in Del Norte County, California (EA 01-0F3100)
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the J.A. Jack and Sons, Inc. Maintenance Dredging Project, King County, Washington (6th Field HUC 171100130305).
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Lehigh Hanson Seattle Terminal Berth Maintenance Dredging project, King County, Washington (6th Field HUC 171100130305)



National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the McCall Oil Maintenance Dredging on the Willamette River (HUC 170900120202), Multnomah County, Oregon (Corps No.:NWP-1993-134-3).
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Olivares Houseboat Project in Seattle, Washington (Corps No. NWS-2019-164), HUC: 171100120400 – Lake Union.
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Talon Private Capital Bank Stabilization and Sediment Removal Project, King County, Washington (6th Field HUC 171100130305).
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the AgriNorthwest Intake Screen Replacement Project, John Day Reservoir (HUC 17070101) in the Middle Columbia River, Benton County, Washington.
National Marine Fisheries Service (NMFS)	Endangered Species Act Section 7(a)(2) Biological Opinion, Letter of Concurrence, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the University of Washington's Boat Street Project

National Marine Fisheries Service (NMFS)	Environmental Assessment and Regulatory Impact Review of Amendment 25 to the Fishery Management Plan for the Groundfish Fishery of the Bering Sea and Aleutian Islands Area - Elimination of the primary Pacific halibut trawl bycatch limit and regulatory amendments to prohibit the discard of salmon until counted by a NMFS-certified observer and to authorize the release of specified observer data on prohibited species bycatch
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National Marine Fisheries Service (NMFS)	Environmental Assessment, Regulatory Impact Review, and Initial Regulatory Flexibility Analysis of Amendment 2 to the Fishery Management Plan for the Commercial King and Tanner Crab Fisheries of the Bering Sea and Aleutian Islands

National Marine Fisheries Service (NMFS)	Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Analysis for Amendment 69 to the FMP for Groundfish of the GOA to Modify the TAC Calculation for the "Other Species" Complex and Regulatory Amendment to Raise the Maximum Retainable Amount of "Other Species" in the Arrowtooth Flounder Fishery
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National Marine Fisheries Service (NMFS)	Habitat-Based Density Models for Three Cetacean Species off Southern California Illustrate Pronounced Seasonal Differences
National Marine Fisheries Service (NMFS)	Hawai'i bottomfish heritage project: traditions and fishery development

National Marine Fisheries Service (NMFS)	Hawaii Longline Fishery 2019 Seabird and Sea Turtle Bycatch for the Entire Fishing Grounds, Within the IATTC Convention Area, and Seabird Bycatch for above 23°N and 23°N–30°S
National Marine Fisheries Service (NMFS)	Hidden Markov models reveal complexity in the diving behaviour of short-finned pilot whales
National Marine Fisheries Service (NMFS)	Hidden Markov models reveal temporal patterns and sex differences in killer whale behavior
National Marine Fisheries Service (NMFS)	High diversity and unique composition of gut microbiomes in pygmy ( <i>Kogia breviceps</i> ) and dwarf ( <i>K-sima</i> ) sperm whales
National Marine Fisheries Service (NMFS)	Hydrodynamic Connectivity of Habitats of Deep-Water Corals in Corsair Canyon, Northwest Atlantic: A Case for Cross-Boundary Conservation
National Marine Fisheries Service (NMFS)	Identifying Causes of Temporal Changes in <i>Acropora cervicornis</i> Populations and the Potential for Recovery
National Marine Fisheries Service (NMFS)	Inactivation of Cone-Specific Phototransduction Genes in Rod Monochromatic Cetaceans
National Marine Fisheries Service (NMFS)	Individual and Population Level Variation in the Reproductive Potential of Deep-Sea Corals From Different Regions Within the Gulf of Maine
National Marine Fisheries Service (NMFS)	Initial Regulatory Flexibility Analysis for the Bering Sea and Aleutian Islands Groundfish Harvest Specifications for 2015-2016
National Marine Fisheries Service (NMFS)	Initial Regulatory Flexibility Analysis for the Gulf of Alaska Groundfish Harvest Specifications 2015-2016

National Marine Fisheries Service (NMFS)	Injury determinations for marine mammals observed interacting with Hawaii and American Samoa longline fisheries during 2018
National Marine Fisheries Service (NMFS)	Intrapopulation variability in the timing of ontogenetic habitat shifts in sea turtles revealed using N-15 values from bone growth rings
National Marine Fisheries Service (NMFS)	Leveraging Automated Image Analysis Tools to Transform Our Capacity to Assess Status and Trends of Coral Reefs
National Marine Fisheries Service (NMFS)	Local Biomass Baselines and the Recovery Potential for Hawaiian Coral Reef Fish Communities
National Marine Fisheries Service (NMFS)	Long-term isolation at a low effective population size greatly reduced genetic diversity in Gulf of California fin whales
National Marine Fisheries Service (NMFS)	Long-term monitoring of coral reef fish assemblages in the Western central pacific
National Marine Fisheries Service (NMFS)	Long-term passive acoustic recordings track the changing distribution of North Atlantic right whales ( <i>Eubalaena glacialis</i> ) from 2004 to 2014
National Marine Fisheries Service (NMFS)	Long-term trends, current status, and transitions of water quality in Chesapeake Bay
National Marine Fisheries Service (NMFS)	Major Shifts in Pelagic Micronekton and Macrozooplankton Community Structure in an Upwelling Ecosystem Related to an Unprecedented Marine Heatwave
National Marine Fisheries Service (NMFS)	Mesophotic Coral Ecosystems of American Samoa



National Marine Fisheries Service (NMFS)	Microbiome differences in disease-resistant vs. susceptible <i>Acropora</i> corals subjected to disease challenge assays
National Marine Fisheries Service (NMFS)	Migrating eastern North Pacific gray whale call and blow rates estimated from acoustic recordings, infrared camera video, and visual sightings
National Marine Fisheries Service (NMFS)	Mitigation of Coral Reef Warming Across the Central Pacific by the Equatorial Undercurrent: A Past and Future Divide
National Marine Fisheries Service (NMFS)	Morphodynamic evolution following sediment release from the world's largest dam removal
National Marine Fisheries Service (NMFS)	National Marine Fisheries Service Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) Response Consultation on the Issuance of Sixteen ESA Section 10(a)(1) (A) Scientific Research Permits in Oregon, Washington, Idaho, and California affecting Salmon, Steelhead, Eulachon, and Rockfish in the West Coast Region
National Marine Fisheries Service (NMFS)	Near-island biological hotspots in barren ocean basins
National Marine Fisheries Service (NMFS)	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications
National Marine Fisheries Service (NMFS)	Oceanographic drivers of the vertical distribution of a highly migratory, endothermic shark
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2005004AL

National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011001DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011001S1
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011002DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011002HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011004HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011005DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011005HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011008DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011009DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2011010DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012001DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012001HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012001S1
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012001UN
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012002DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012002HB

National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012003DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012005DE
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012005HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012006HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012006PC
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2012007PC
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013001PC
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013001S1
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013002GU
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013003HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013004HB
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013005EX
National Marine Fisheries Service (NMFS)	Oceanography Branch CTD Data Report : CTD_REPORT_2013005GU
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : 2005 Fall Bottom Trawl Survey ALB0508
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : 2005 Fall ECOMON Survey ALB0509
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : ALB0505 – ECOMON Survey

National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : DEL0511 Benthic Habitat
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : DEL0512 – Hydroacoustic Survey
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : DEL0514 – Benthic Habitat
National Marine Fisheries Service (NMFS)	Oceans and Climate Branch CTD Data Report : ECOMON ALB0507
National Marine Fisheries Service (NMFS)	Opportunism on the High Seas: Foraging Ecology of Olive Ridley Turtles in the Eastern Pacific Ocean
National Marine Fisheries Service (NMFS)	Past and estimated future impact of invasive alien mammals on insular threatened vertebrate populations
National Marine Fisheries Service (NMFS)	Population connectivity of pelagic megafauna in the Cuba-Mexico-United States triangle
National Marine Fisheries Service (NMFS)	Predicting Optimal Sites for Ecosystem Restoration Using Stacked-Species Distribution Modeling
National Marine Fisheries Service (NMFS)	Prevalence of influenza A virus in live-captured North Atlantic gray seals: a possible wild reservoir
National Marine Fisheries Service (NMFS)	Projecting Marine Mammal Distribution in a Changing Climate
National Marine Fisheries Service (NMFS)	Quantifying overlap between the Deepwater Horizon oil spill and predicted bluefin tuna spawning habitat in the Gulf of Mexico
National Marine Fisheries Service (NMFS)	Quantifying the Effects of Dams on Atlantic Salmon in the Penobscot River Watershed, with a Focus on Weldon Dam

National Marine Fisheries Service (NMFS)	Recommended priorities for research on ecological impacts of ocean and coastal acidification in the US Mid-Atlantic
National Marine Fisheries Service (NMFS)	Reconstruction of larval origins based on genetic relatedness and biophysical modeling
National Marine Fisheries Service (NMFS)	Recovery Plan for the Gulf of Maine Distinct Population Segment of Atlantic Salmon ( <i>Salmo salar</i> ) Final Plan for the 2009 ESA Listing
National Marine Fisheries Service (NMFS)	Regulatory Impact Review / Initial Regulatory Flexibility Analysis for a Regulatory Amendment to Implement an Interagency Electronic Reporting System
National Marine Fisheries Service (NMFS)	Regulatory Impact Review and Final Regulatory Flexibility Analysis Exemption to West Region Landing Requirement in the Western Aleutian Islands Golden King Crab Fishery For a Regulatory Amendment to Implement Amendment 37 to the Fishery Management Plan for Bering Sea and Aleutian Islands King and Tanner Crabs
National Marine Fisheries Service (NMFS)	Regulatory Impact Review and Initial Regulatory Flexibility Analysis of a Provision Exempting C Shares from Processor Share and Regional Landing Requirements for a Proposed Regulatory Amendment to Implement Amendment 26 to the Fishery Management Plan for Bering Sea and Aleutian Islands King and Tanner Crabs
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for a Proposed Rule to Allow Processors to Use Offal from Prohibited Species for Fish Meal

National Marine Fisheries Service (NMFS)	Regulatory Impact Review for a Regulatory Amendment to Add Communities to the List of Communities Eligible for the Gulf of Alaska Community Quota Entity Program
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for a Regulatory Amendment to Allow Community Quota Entities in Area 3A to Purchase D Category Halibut Quota Share
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for a Regulatory Amendment to Clarify Certain Provisions Pertaining to the Harvest Specifications for Other Species
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for Proposed Amendment 103 Fishery Management Plan and Regulatory Amendment to Allow the Reapportionment of Chinook Salmon PSC between the Pollock and Non-Pollock Gulf of Alaska Trawl Fisheries
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for Proposed Amendment 119 to the Fishery Management Plan for the Groundfish of the Bering Sea/Aleutian Islands Area and Amendment 107 to the Fishery Management Plan for the Groundfish of the Gulf of Alaska Area - Full Retention of Rockfish for Fixed Gear Catcher Vessels
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for Proposed Amendment 94 to the Fishery Management Plan for Groundfish of the Gulf of Alaska - Revising the vessel use caps applicable to quota share held by GOA Community Quota Entities
National Marine Fisheries Service (NMFS)	Regulatory Impact Review for Proposed Amendment to the Federal Regulations Implementing the Pacific Halibut Fisheries Off Alaska - Community Quota Entity Individual Fishing Quota Fish Up in Area 3A

National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Environmental Assessment/Initial Regulatory Flexibility Analysis for Proposed Amendment 92 to the Fishery Management Plan for Groundfish of the Bering Sea/Aleutian Island Management Area and Amendment 82 to the Fishery Management Plan for Groundfish of the Gulf of Alaska
National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Final Regulatory Flexibility Analysis for a Proposed Regulatory Amendment to Implement Amendment 90 to the Fishery Management Plan for Bering Sea and Aleutian Islands Groundfish a Provision Allowing Post-Delivery Transfer of Amendment 80 Shares to Amendment 80 Cooperatives
National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Final Regulatory Flexibility Analysis for a Regulatory Amendment to Simplify Administrative Requirements Related to Quota Transfers, Eligible Vessels, and Alternative Fishing Plans Under the Community Development Program
National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Initial Regulatory Flexibility Analysis - Revised Steller Sea Lion Protection Measures
National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Initial Regulatory Flexibility Analysis for a Regulatory Amendment to Revise Administrative and Procedural Aspects of the North Pacific Groundfish Observer Program

National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Initial Regulatory Flexibility Analysis of an Exemption to West Region Landing Requirement in the Western Aleutian Islands Golden King Crab Fishery for a Proposed Regulatory Amendment to Implement Amendment 37 to the Fishery Management Plan for Bering Sea and Aleutian Islands King and Tanner Crabs
National Marine Fisheries Service (NMFS)	Regulatory Impact Review/Initial Regulatory Flexibility Analysis to Revise the Federal Definition of Sport Fishing Guide Services
National Marine Fisheries Service (NMFS)	Reinitiation of Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat (EFH) Consultation for the Replacement of the West Cashmere Bridge over the Wenatchee River in Chelan County, Washington (170200110707 Olalla Canyon-Wenatchee River).
National Marine Fisheries Service (NMFS)	Reinitiation of Endangered Species Act Section 7(a)(2) Biological Opinion, and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Sound Transit Downtown Redmond Link Extension, King County, Washington, (171100120400 6th Field HUC Lake Washington-Sammamish River)
National Marine Fisheries Service (NMFS)	Relating Mandates in the United States for Managing the Ocean to Ecosystem Goods and Services Demonstrates Broad but Varied Coverage
National Marine Fisheries Service (NMFS)	Report from Bowhead/Right Whale Comparative Health and Physiology Workshop March 25-26, 2003
National Marine Fisheries Service (NMFS)	Report of the Workshop on Marine Turtle Longline Post-Interaction Mortality



National Marine Fisheries Service (NMFS)	Report on Consideration of Statutory Factors under Section 120 of the MMPA
National Marine Fisheries Service (NMFS)	Reproductive success delays moult phenology in a polar mammal
National Marine Fisheries Service (NMFS)	Respiratory Microbiome of Endangered Southern Resident Killer Whales and Microbiota of Surrounding Sea Surface Microlayer in the Eastern North Pacific
National Marine Fisheries Service (NMFS)	Results of the acoustic-trawl surveys of walleye pollock ( <i>Gadus chalcogrammus</i> ) in the Gulf of Alaska, March 2019 (SH2019-04)
National Marine Fisheries Service (NMFS)	Rigorous monitoring of a large-scale marine stock enhancement program demonstrates the need for comprehensive management of fisheries and nursery habitat
National Marine Fisheries Service (NMFS)	Satellite tagging of Mediterranean fin whales: working towards the identification of critical habitats and the focussing of mitigation measures
National Marine Fisheries Service (NMFS)	Sea Turtle Bycatch Mitigation in U.S. Longline Fisheries
National Marine Fisheries Service (NMFS)	Sea turtle tagging in the Mariana Islands Training and Testing (MITT) study area
National Marine Fisheries Service (NMFS)	Spatial separation of catches in highly mixed fisheries
National Marine Fisheries Service (NMFS)	State Management Program for Recreational Red Snapper Final Amendment 50A to the Fishery Management Plan for the Reef Fish Resources of the Gulf of Mexico
National Marine Fisheries Service (NMFS)	State of the Ecosystem 2020: Mid-Atlantic

National Marine Fisheries Service (NMFS)	State of the Ecosystem 2020: New-England
National Marine Fisheries Service (NMFS)	Stock assessment of uku ( <i>Aprion virescens</i> ) in Hawaii, 2020
National Marine Fisheries Service (NMFS)	Stock Synthesis User Manual : Version 3.30.15
National Marine Fisheries Service (NMFS)	Supplemental Environmental Assessment/Regulatory Impact Review/Final Regulatory Flexibility Analysis for Amendment 75 to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands Area - Changes in IR/IU Flatfish Requirements
National Marine Fisheries Service (NMFS)	Supplemental Environmental Assessment: Reducing the Impact on At-risk Salmon and Steelhead by California Sea Lions in the Area Downstream of Bonneville Dam on the Columbia River, Oregon and Washington
National Marine Fisheries Service (NMFS)	Supplemental Information Report in Response to the August 18, 2011 Application by Idaho, Oregon, and Washington for Lethal Removal Authority under Section 120 of the Marine Mammal Protection Act
National Marine Fisheries Service (NMFS)	Supplemental Information Report to the 2008 Final Environmental Assessment - Reducing the Impact on At-Risk Salmon and Steelhead by California Sea Lions in the Area Downstream of Bonneville Dam on the Columbia River, Oregon and Washington
National Marine Fisheries Service (NMFS)	Technical Documentation, State of the Ecosystem
National Marine Fisheries Service (NMFS)	The 2019 Longline Survey of the Gulf of Alaska and Eastern Bering Sea on the FV Ocean Prowler : Cruise Report OP-19-01

National Marine Fisheries Service (NMFS)	The characteristics of krill swarms in relation to aggregating Antarctic blue whales
National Marine Fisheries Service (NMFS)	The Dilemma of Derelict Gear
National Marine Fisheries Service (NMFS)	The Effects of Anthropogenic Stressors on Reproduction and Recruitment of Corals and Reef Organisms
National Marine Fisheries Service (NMFS)	The Rarity of Depth Refugia from Coral Bleaching Heat Stress in the Western and Central Pacific Islands
National Marine Fisheries Service (NMFS)	The relationship between suspended solids and nutrients with variable hydrologic flow regimes
National Marine Fisheries Service (NMFS)	Tropical storms influence the movement behavior of a demersal oceanic fish species
National Marine Fisheries Service (NMFS)	Unclear associations between small pelagic fish and jellyfish in several major marine ecosystems
National Marine Fisheries Service (NMFS)	Uncovering mechanisms of global ocean change effects on the Dungeness crab (Cancer magister) through metabolomics analysis
National Marine Fisheries Service (NMFS)	Understanding PCR Processes to Draw Meaningful Conclusions from Environmental DNA Studies
National Marine Fisheries Service (NMFS)	Understanding the co-occurrence of large whales and commercial fixed gear fisheries off the west coast of the United States
National Marine Fisheries Service (NMFS)	Underwater sound from vessel traffic reduces the effective communication range in Atlantic cod and haddock

National Marine Fisheries Service (NMFS)	Update to Assessing the Population-level Impacts of North Pacific Loggerhead and Western Pacific Leatherback Turtle Interactions, inclusion of the Hawaii-based Deep-set and American Samoa-based Longline Fisheries
National Marine Fisheries Service (NMFS)	Variable climatic conditions dominate recent phytoplankton dynamics in Chesapeake Bay
National Marine Fisheries Service (NMFS)	Videography Reveals In-Water Behavior of Loggerhead Turtles ( <i>Caretta caretta</i> ) at a Foraging Ground
National Marine Fisheries Service (NMFS)	Warmer waters masculinize wild populations of a fish with temperature-dependent sex determination
National Marine Fisheries Service (NMFS)	Which recruitment scenario is most likely for conducting future stock projections of Western and Central North Pacific Ocean striped marlin?
National Marine Fisheries Service (NMFS)	Willamette Falls Pinniped Monitoring Project, 2014
National Marine Fisheries Service (NMFS)	Willamette Falls Pinniped Monitoring Project, 2015
National Marine Fisheries Service (NMFS)	Willamette Falls Pinniped Monitoring Project, 2016
National Marine Fisheries Service (NMFS)	Willamette Falls Pinniped Monitoring Project, 2017
National Ocean Service (NOS)	A Bayesian Semiparametric Regression Model for Joint Analysis of Microbiome Data
National Ocean Service (NOS)	A new approach for incorporating N-15 isotopic data into linear inverse ecosystem models with Markov Chain Monte Carlo sampling

National Ocean Service (NOS)	Accumulation and distribution of marine debris on barrier islands across the northern Gulf of Mexico
National Ocean Service (NOS)	Additive negative effects of anthropogenic sedimentation and warming on the survival of coral recruits
National Ocean Service (NOS)	An Innovative Approach to Design and Evaluate a Regional Coastal Ocean Observing System
National Ocean Service (NOS)	Annotated checklist of fishes from Monterey Bay National Marine Sanctuary with notes on extralimital species
National Ocean Service (NOS)	Blended sea level anomaly fields with enhanced coastal coverage along the US West Coast
National Ocean Service (NOS)	Building Coral Reef Resilience Through Spatial Herbivore Management
National Ocean Service (NOS)	Capture, ingestion, and egestion of microplastics by suspension-feeding bivalves: a 40-year history
National Ocean Service (NOS)	Cell cycle arrest and biochemical changes accompanying cell death in harmful dinoflagellates following exposure to bacterial algicide IRI-160AA
National Ocean Service (NOS)	Characterizing a Sea Turtle Developmental Habitat Using Landsat Observations of Surface-Pelagic Drift Communities in the Eastern Gulf of Mexico
National Ocean Service (NOS)	Chesapeake Bay Inorganic Carbon: Spatial Distribution and Seasonal Variability
National Ocean Service (NOS)	Citizen-Science for the Future: Advisory Case Studies From Around the Globe

National Ocean Service (NOS)	Coho salmon spawner mortality in western US urban watersheds: bioinfiltration prevents lethal storm water impacts
National Ocean Service (NOS)	Comparison of Spatial and Temporal Genetic Differentiation in a Harmful Dinoflagellate Species Emphasizes Impact of Local Processes
National Ocean Service (NOS)	Considerations in Harmful Algal Bloom Research and Monitoring: Perspectives From a Consensus-Building Workshop and Technology Testing
National Ocean Service (NOS)	Controls on Carbonate System Dynamics in a Coastal Plain Estuary: A Modeling Study
National Ocean Service (NOS)	Coral Skeleton $\delta^{15}\text{N}$ as a Tracer of Historic Nutrient Loading to a Coral Reef in Maui, Hawaii
National Ocean Service (NOS)	Corals and Their Microbiomes Are Differentially Affected by Exposure to Elevated Nutrients and a Natural Thermal Anomaly
National Ocean Service (NOS)	Data on the risk perceptions of beach water safety in coastal Georgia
National Ocean Service (NOS)	Ecological assessment of Iuiau Conservation Area in Angaur State
National Ocean Service (NOS)	Ecological assessment of Ngermedellim Marine Sanctuary
National Ocean Service (NOS)	Ecophysiology of mesophotic reef-building corals in Hawai'i is influenced by symbiont–host associations, photoacclimatization, trophic plasticity, and adaptation
National Ocean Service (NOS)	Ecosystem – What? Public Understanding and Trust in Conservation Science and Ecosystem Services

National Ocean Service (NOS)	Effects of Coastal Upwelling and Downwelling on Hydrographic Variability and Dissolved Oxygen in Mobile Bay
National Ocean Service (NOS)	Embryonic Crude Oil Exposure Impairs Growth and Lipid Allocation in a Keystone Arctic Forage Fish
National Ocean Service (NOS)	Evaluation of Filtration and DNA Extraction Methods for Environmental DNA Biodiversity Assessments across Multiple Trophic Levels
National Ocean Service (NOS)	Evaluation of Sample Preparation Methods for the Analysis of Reef-Building Corals Using H-1-NMR-Based Metabolomics
National Ocean Service (NOS)	Expression of novel nitrate reductase genes in the harmful alga, <i>Chattonella subsalsa</i>
National Ocean Service (NOS)	Final Supplement to the Final Damage Assessment and Restoration Plan and Environmental Assessment for the Koppers Site, Charleston, South Carolina
National Ocean Service (NOS)	Genetic homogeneity of the invasive lionfish across the Northwestern Atlantic and the Gulf of Mexico based on Single Nucleotide Polymorphisms
National Ocean Service (NOS)	Identifying Causes of Temporal Changes in <i>Acropora cervicornis</i> Populations and the Potential for Recovery
National Ocean Service (NOS)	Implementation of the Lakes Michigan and Huron Operational Forecast System (LMHOFS) and the Nowcast/Forecast Skill Assessment

National Ocean Service (NOS)	Influence of Major Storm Events on the Quantity and Composition of Particulate Organic Matter and the Phytoplankton Community in a Subtropical Estuary, Texas
National Ocean Service (NOS)	Interactive Effects of Hypoxia and Temperature on Coastal Pelagic Zooplankton and Fish
National Ocean Service (NOS)	Long-term passive acoustic recordings track the changing distribution of North Atlantic right whales ( <i>Eubalaena glacialis</i> ) from 2004 to 2014
National Ocean Service (NOS)	MCT-NOAA Cooperative Agreement Final Report
National Ocean Service (NOS)	Measurement of Cyanobacterial Bloom Magnitude using Satellite Remote Sensing
National Ocean Service (NOS)	Migrating eastern North Pacific gray whale call and blow rates estimated from acoustic recordings, infrared camera video, and visual sightings
National Ocean Service (NOS)	<i>Montastraea cavernosa</i> corallite structure demonstrates distinct morphotypes across shallow and mesophotic depth zones in the Gulf of Mexico
National Ocean Service (NOS)	Observations of Wind Forcing Effects on Estuary Length and Salinity Flux in a River-Dominated, Microtidal Estuary, Mobile Bay, Alabama
National Ocean Service (NOS)	Population genomics of rapidly invading lionfish in the Caribbean reveals signals of range expansion in the absence of spatial population structure
National Ocean Service (NOS)	Potential Structuring Forces on a Shelf Edge Upper Mesophotic Coral Ecosystem in the US Virgin Islands



National Ocean Service (NOS)	Pseudo-nitzschia bloom dynamics in the Gulf of Maine: 2012–2016
National Ocean Service (NOS)	Quantifying the Effects of Hurricanes Irma and Maria on Coastal Water Quality in Puerto Rico using Moderate Resolution Satellite Sensors
National Ocean Service (NOS)	Recommended priorities for research on ecological impacts of ocean and coastal acidification in the US Mid-Atlantic
National Ocean Service (NOS)	Remote sensing estimation of surface oil volume during the 2010 Deepwater Horizon oil blowout in the Gulf of Mexico: scaling up AVIRIS observations with MODIS measurements
National Ocean Service (NOS)	Research Priorities to Support Effective Manta and Devil Ray Conservation
National Ocean Service (NOS)	Restoring tides to reduce methane emissions in impounded wetlands: A new and potent Blue Carbon climate change intervention
National Ocean Service (NOS)	Same pattern, different mechanism: Locking onto the role of key species in seafloor ecosystem process
National Ocean Service (NOS)	Satellite Observations of Phytoplankton Functional Type Spatial Distributions, Phenology, Diversity, and Ecotones
National Ocean Service (NOS)	Scenario planning with linked land-sea models inform where forest conservation actions will promote coral reef resilience
National Ocean Service (NOS)	Sea Level Rise Explains Changing Carbon Accumulation Rates in a Salt Marsh Over the Past Two Millennia

National Ocean Service (NOS)	Simulating Effects of Variable Stoichiometry and Temperature on Mixotrophy in the Harmful Dinoflagellate <i>Karlodinium veneficum</i>
National Ocean Service (NOS)	Status of seagrasses fishes and macro-invertebrates at Teluleu Conservation Area from 2011 to 2018
National Ocean Service (NOS)	Stratified coastal ocean interactions with tropical cyclones
National Ocean Service (NOS)	Temporal migration patterns between natal locations of ruby-throated hummingbirds ( <i>Archilochus colubris</i> ) and their Gulf Coast stopover site
National Ocean Service (NOS)	Toxin-Antitoxin Systems in Estuarine <i>Synechococcus</i> Strain CB0101 and Their Transcriptomic Responses to Environmental Stressors
National Ocean Service (NOS)	Transcriptional Shifts Highlight the Role of Nutrients in Harmful Brown Tide Dynamics
National Ocean Service (NOS)	Underwater sound from vessel traffic reduces the effective communication range in Atlantic cod and haddock
National Ocean Service (NOS)	Upgrade of NOS Lake Michigan and Lake Huron operational forecast systems to FVCOM : model development and hindcast skill assessment
National Ocean Service (NOS)	Variable density dependence and the restructuring of coral-reef fisheries across 25 years of exploitation
National Ocean Service (NOS)	Virus-host relationships of marine single-celled eukaryotes resolved from metatranscriptomics
National Ocean Service (NOS)	Water Quality Drivers in 11 Gulf of Mexico Estuaries

National Ocean Service (NOS)	Widespread shifts in the coastal biota of northern California during the 2014–2016 marine heatwaves
National Weather Service (NWS)	A documentation of the NMMB's nesting capabilities and mechanisms
National Weather Service (NWS)	Application of a Nonlinear Transformation Function to the Variational Analysis of Visibility and Ceiling Height
National Weather Service (NWS)	Application of SWAN+ADCIRC to tide-surge and wave simulation in Gulf of Maine during Patriot's Day storm
National Weather Service (NWS)	Characterizing a Sea Turtle Developmental Habitat Using Landsat Observations of Surface-Pelagic Drift Communities in the Eastern Gulf of Mexico
National Weather Service (NWS)	Compilation of climate data from heterogeneous networks across the Hawaiian Islands
National Weather Service (NWS)	On the Shortening of the Lead Time of Ocean Warm Water Volume to ENSO SST Since 2000
National Weather Service (NWS)	Origins and variability of extreme precipitation in the Santa Ynez River Basin of Southern California
National Weather Service (NWS)	Recent increase of surface particulate matter concentrations in the Seoul Metropolitan Area, Korea
National Weather Service (NWS)	Role of eyewall and rainband eddy forcing in tropical cyclone intensification
National Weather Service (NWS)	Skillful empirical subseasonal prediction of landfalling atmospheric river activity using the Madden–Julian oscillation and quasi-biennial oscillation

National Weather Service (NWS)	Sub-seasonal Predictability of the Onset and Demise of the Rainy Season over Monsoonal Regions
National Weather Service (NWS)	Subseasonal Predictability of Boreal Summer Monsoon Rainfall from Ensemble Forecasts
National Weather Service (NWS)	Tsunamis caused by submarine slope failures along western Great Bahama Bank
NOAA Cooperative Institutes	A cloud-free MODIS snow cover dataset for the contiguous United States from 2000 to 2017
NOAA Cooperative Institutes	A global view on the effect of water uptake on aerosol particle light scattering
NOAA Cooperative Institutes	A multi-year data set on aerosol-cloud-precipitation-meteorology interactions for marine stratocumulus clouds
NOAA Cooperative Institutes	Advancing Unmanned Aerial Capabilities for Atmospheric Research
NOAA Cooperative Institutes	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Larval Dynamics
NOAA Cooperative Institutes	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Population Genetics
NOAA Cooperative Institutes	Community Structure of Lithotrophically-Driven Hydrothermal Microbial Mats from the Mariana Arc and Back-Arc
NOAA Cooperative Institutes	Considerations in Harmful Algal Bloom Research and Monitoring: Perspectives From a Consensus-Building Workshop and Technology Testing

NOAA Cooperative Institutes	Data of variability and joint variability of global crop yields and their association with climate
NOAA Cooperative Institutes	Diagnostic fields developed for hourly updated NOAA weather models
NOAA Cooperative Institutes	Disease Prevalence and Snail Predation Associated with Swell-Generated Damage on the Threatened Coral, <i>Acropora palmata</i> (Lamarck)
NOAA Cooperative Institutes	Eco-evolutionary Feedbacks from Non-target Species Influence Harvest Yield and Sustainability
NOAA Cooperative Institutes	Evidence and patterns of tuna spawning inside a large no-take Marine Protected Area
NOAA Cooperative Institutes	Global Carbon Budget 2019
NOAA Cooperative Institutes	Global Survey of Precipitation Properties Observed during Tropical Cyclogenesis and Their Differences Compared to Nondeveloping Disturbances
NOAA Cooperative Institutes	Hawai'i Coral Disease database (HICORDIS): species-specific coral health data from across the Hawaiian archipelago
NOAA Cooperative Institutes	How Does Hurricane Edouard (2014) Evolve toward Symmetry before Rapid Intensification? A High-Resolution Ensemble Study
NOAA Cooperative Institutes	Hydrogen Limitation and Syntrophic Growth among Natural Assemblages of Thermophilic Methanogens at Deep-sea Hydrothermal Vents
NOAA Cooperative Institutes	Individual and Population Level Variation in the Reproductive Potential of Deep-Sea Corals From Different Regions Within the Gulf of Maine

NOAA Cooperative Institutes	Laboratory spiking process of soil with various uranium and other heavy metals
NOAA Cooperative Institutes	Leveraging Automated Image Analysis Tools to Transform Our Capacity to Assess Status and Trends of Coral Reefs
NOAA Cooperative Institutes	Lipid normalization and stable isotope discrimination in Pacific walrus tissues
NOAA Cooperative Institutes	Managing climate risks on the ranch with limited drought information
NOAA Cooperative Institutes	Microbiome differences in disease-resistant vs. susceptible <i>Acropora</i> corals subjected to disease challenge assays
NOAA Cooperative Institutes	Phylogenetic, genomic, and biogeographic characterization of a novel and ubiquitous marine invertebrate-associated Rickettsiales parasite, <i>Candidatus Aquarickettsia rohweri</i> , gen. nov., sp. nov
NOAA Cooperative Institutes	Population assessment of tropical tuna based on their associative behavior around floating objects
NOAA Cooperative Institutes	Populations of the coral species <i>Montastraea cavernosa</i> on the Belize Barrier Reef lack vertical connectivity
NOAA Cooperative Institutes	Predictability of US West Coast Ocean Temperatures is not solely due to ENSO
NOAA Cooperative Institutes	Predominant Non-additive Effects of Multiple Stressors on Autotroph C:N:P Ratios Propagate in Freshwater and Marine Food Webs

NOAA Cooperative Institutes	Real-Time Detection of Tsunami Ionospheric Disturbances with a Stand-Alone GNSS Receiver: A Preliminary Feasibility Demonstration
NOAA Cooperative Institutes	Recent increase of surface particulate matter concentrations in the Seoul Metropolitan Area, Korea
NOAA Cooperative Institutes	Resilience of the Gulf Stream path on decadal and longer timescales
NOAA Cooperative Institutes	Role of eyewall and rainband eddy forcing in tropical cyclone intensification
NOAA Cooperative Institutes	Seasonal Dynamics in Dissolved Organic Matter, Hydrogen Peroxide, and Cyanobacterial Blooms in Lake Erie
NOAA Cooperative Institutes	Seasonal patterns of surface inorganic carbon system variables in the Gulf of Mexico inferred from a regional high-resolution ocean biogeochemical model
NOAA Cooperative Institutes	Spatial and temporal variability of inherent and apparent optical properties in western Lake Erie: Implications for water quality remote sensing
NOAA Cooperative Institutes	Stratified coastal ocean interactions with tropical cyclones
NOAA Cooperative Institutes	Success of Montreal Protocol Demonstrated by Comparing High-Quality UV Measurements with "World Avoided" Calculations from Two Chemistry-Climate Models
NOAA Cooperative Institutes	Supercooled liquid fogs over the central Greenland Ice Sheet
NOAA Cooperative Institutes	Temporal and demographic variation in partial migration of the North Atlantic right whale

NOAA Cooperative Institutes	The CHRS Data Portal, an easily accessible public repository for PERSIANN global satellite precipitation data
NOAA Cooperative Institutes	The establishment of a pelagic Sargassum population in the tropical Atlantic: Biological consequences of a basin-scale long distance dispersal event
NOAA Cooperative Institutes	The formation of the ocean's anthropogenic carbon reservoir
NOAA Cooperative Institutes	The Rarity of Depth Refugia from Coral Bleaching Heat Stress in the Western and Central Pacific Islands
NOAA Cooperative Institutes	Time of Emergence of Surface Ocean Carbon Dioxide Trends in the North American Coastal Margins in Support of Ocean Acidification Observing System Design
NOAA Cooperative Institutes	Track Uncertainty in High-Resolution HWRF Ensemble Forecasts of Hurricane Joaquin
NOAA Cooperative Institutes	Tropical explosive volcanic eruptions can trigger El Nino China's coal mine methane regulations have not curbed growing emissions by cooling tropical Africa
NOAA Cooperative Institutes	Unclear associations between small pelagic fish and jellyfish in several major marine ecosystems
NOAA Cooperative Institutes	Use of AMSR-E microwave satellite data for land surface characteristics and snow cover variation
NOAA Cooperative Institutes	Using persistent homology to quantify a diurnal cycle in hurricanes
Ocean Exploration Program	2018 NOAA Ship Okeanos Explorer Mapping Systems Readiness Report



Ocean Exploration Program	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Larval Dynamics
Ocean Exploration Program	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Population Genetics
Ocean Exploration Program	Building the Knowledge-to-Action Pipeline in North America: Connecting Ocean Acidification Research and Actionable Decision Support
Ocean Exploration Program	Characterization of Methane-Seep Communities in a Deep-Sea Area Designated for Oil and Natural Gas Exploitation Off Trinidad and Tobago
Ocean Exploration Program	Cruise Report EX-16-03, 2016 Hohonu Moana: Exploring the Deep Waters off Hawai'i (ROV & Mapping)
Ocean Exploration Program	Deep-sea hydrothermal vents as natural egg-case incubators at the Galapagos Rift
Ocean Exploration Program	Ectoparasitism on deep-sea fishes in the western North Atlantic: In situ observations from ROV surveys
Ocean Exploration Program	Habitat Differences in Deep-Sea Megafaunal Communities off New Zealand: Implications for Vulnerability to Anthropogenic Disturbance and Management
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report. Cruise EX-10-02: ROV Integration, Shakedown, Field Trials (Shakedown)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-11-02, ROV Shakedown (ROV & Mapping)

Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-15-04 Leg 4, Hohonu Moana 2015: Exploring the Deep Waters off Hawai'i (ROV & Mapping)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-17-01, Kingman/Palmyra, Jarvis (Mapping)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-17-08, Musician Seamounts (ROV & Mapping)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-17-11, Gulf of Mexico 2017 (ROV & Mapping)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-18-03, Gulf of Mexico 2018 (ROV & Mapping)
Ocean Exploration Program	Mapping Data Acquisition and Processing Summary Report: EX-18-04, Dedicated Joint Polar Satellite System (JPSS) Visible Infrared Imaging Radiometer Suite (VIIRS) Ocean Color Calibration/Validation Cruise May 2018 (Mapping)
Ocean Exploration Program	Mesophotic Coral Ecosystems: A Geoacoustically Derived Proxy for Habitat and Relative Diversity for the Leeward Shelf of Bonaire, Dutch Caribbean
Ocean Exploration Program	Mineralogy of Deep-Sea Coral Aragonites as a Function of Aragonite Saturation State
Ocean Exploration Program	New frontiers in ocean exploration: The E/V Nautilus 2014 Gulf of Mexico and Caribbean field season
Office of Marine and Aviation Operations (OMAO)	Hydrodynamic Connectivity of Habitats of Deep-Water Corals in Corsair Canyon, Northwest Atlantic: A Case for Cross-Boundary Conservation

Office of Oceanic and Atmospheric Research (OAR)	2018 NOAA Ship Okeanos Explorer Mapping Systems Readiness Report
Office of Oceanic and Atmospheric Research (OAR)	A global view on the effect of water uptake on aerosol particle light scattering
Office of Oceanic and Atmospheric Research (OAR)	A multi-year data set on aerosol-cloud-precipitation-meteorology interactions for marine stratocumulus clouds
Office of Oceanic and Atmospheric Research (OAR)	A Near-Real-Time Version of the Cross-Calibrated Multiplatform (CCMP) Ocean Surface Wind Velocity Data Set
Office of Oceanic and Atmospheric Research (OAR)	A new interhemispheric teleconnection increases predictability of winter precipitation in southwestern US
Office of Oceanic and Atmospheric Research (OAR)	A pervasive role for biomass burning in tropical high ozone/low water structures
Office of Oceanic and Atmospheric Research (OAR)	A Plastic Network Approach to Model Calving Glacier Advance and Retreat
Office of Oceanic and Atmospheric Research (OAR)	A reconstruction of global hydroclimate and dynamical variables over the Common Era
Office of Oceanic and Atmospheric Research (OAR)	Advancing Unmanned Aerial Capabilities for Atmospheric Research
Office of Oceanic and Atmospheric Research (OAR)	Aerosol effects on cloud water amounts were successfully simulated by a global cloud-system resolving model
Office of Oceanic and Atmospheric Research (OAR)	Agricultural trade publications and the 2012 Midwestern U.S. drought: A missed opportunity for climate risk communication

Office of Oceanic and Atmospheric Research (OAR)	An Alternative to Static Climatologies: Robust Estimation of Open Ocean CO2 Variables and Nutrient Concentrations From T, S, and O2 Data Using Bayesian Neural Networks
Office of Oceanic and Atmospheric Research (OAR)	An Ensemble-Based Probabilistic Score Approach to Compare Observation Scenarios: An Application to Biogeochemical-Argo Deployments
Office of Oceanic and Atmospheric Research (OAR)	Analysis of OAR Transition of Research and Development (FY18)
Office of Oceanic and Atmospheric Research (OAR)	Anthropogenic aerosol drives uncertainty in future climate mitigation efforts
Office of Oceanic and Atmospheric Research (OAR)	Anthropogenic climate change has altered primary productivity in Lake Superior
Office of Oceanic and Atmospheric Research (OAR)	AOPs Are Not Additive: On the Biogeo-Optical Modeling of the Diffuse Attenuation Coefficient
Office of Oceanic and Atmospheric Research (OAR)	Aquaculture Interactions with Endangered Species
Office of Oceanic and Atmospheric Research (OAR)	Arctic amplification is caused by sea-ice loss under increasing CO2
Office of Oceanic and Atmospheric Research (OAR)	Assessing Current and Future Freshwater Flood Risk from North Atlantic Tropical Cyclones via Insurance Claims
Office of Oceanic and Atmospheric Research (OAR)	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Larval Dynamics
Office of Oceanic and Atmospheric Research (OAR)	Assessment of Mesophotic Coral Ecosystem Connectivity for Proposed Expansion of a Marine Sanctuary in the Northwest Gulf of Mexico: Population Genetics

Office of Oceanic and Atmospheric Research (OAR)	Backward and forward drift trajectories of sea ice in the northwestern Arctic Ocean in response to changing atmospheric circulation
Office of Oceanic and Atmospheric Research (OAR)	Black carbon absorption at the global scale is affected by particle-scale diversity in composition
Office of Oceanic and Atmospheric Research (OAR)	Building the Knowledge-to-Action Pipeline in North America: Connecting Ocean Acidification Research and Actionable Decision Support
Office of Oceanic and Atmospheric Research (OAR)	Characterization of Methane-Seep Communities in a Deep-Sea Area Designated for Oil and Natural Gas Exploitation Off Trinidad and Tobago
Office of Oceanic and Atmospheric Research (OAR)	CINDY2011/DYNAMO Madden-Julian oscillation successfully reproduced in global cloud/cloud-system resolving simulations despite weak tropical wavelet power
Office of Oceanic and Atmospheric Research (OAR)	Climate variability and irrigation impacts on streamflows in a Karst watershed—A systematic evaluation
Office of Oceanic and Atmospheric Research (OAR)	Clouds enhance Greenland ice sheet meltwater runoff
Office of Oceanic and Atmospheric Research (OAR)	Coccolith dissolution within copepod guts affects fecal pellet density and sinking rate
Office of Oceanic and Atmospheric Research (OAR)	Community Structure of Lithotrophically-Driven Hydrothermal Microbial Mats from the Mariana Arc and Back-Arc
Office of Oceanic and Atmospheric Research (OAR)	Comparing Chemistry and Census-Based Estimates of Net Ecosystem Calcification on a Rim Reef in Bermuda

Office of Oceanic and Atmospheric Research (OAR)	Considerations in Harmful Algal Bloom Research and Monitoring: Perspectives From a Consensus-Building Workshop and Technology Testing
Office of Oceanic and Atmospheric Research (OAR)	Consistent differences in fitness traits across multiple generations of Olympia oysters
Office of Oceanic and Atmospheric Research (OAR)	Continuation of tropical Pacific Ocean temperature trend may weaken extreme El Nino and its linkage to the Southern Annular Mode
Office of Oceanic and Atmospheric Research (OAR)	Covariability of climate and streamflow in the Upper Rio Grande from interannual to interdecadal timescales
Office of Oceanic and Atmospheric Research (OAR)	Cruise Report EX-16-03, 2016 Hohonu Moana: Exploring the Deep Waters off Hawai'i (ROV & Mapping)
Office of Oceanic and Atmospheric Research (OAR)	Current rates and mechanisms of subsea permafrost degradation in the East Siberian Arctic Shelf
Office of Oceanic and Atmospheric Research (OAR)	Deep-sea hydrothermal vents as natural egg-case incubators at the Galapagos Rift
Office of Oceanic and Atmospheric Research (OAR)	Delay in recovery of the Antarctic ozone hole from unexpected CFC-11 emissions
Office of Oceanic and Atmospheric Research (OAR)	Development of a gridded reference evapotranspiration dataset for the Great Lakes region
Office of Oceanic and Atmospheric Research (OAR)	Diagnostic fields developed for hourly updated NOAA weather models
Office of Oceanic and Atmospheric Research (OAR)	Diel population and functional synchrony of microbial communities on coral reefs
Office of Oceanic and Atmospheric Research (OAR)	Dramatic declines in snowpack in the western US

Office of Oceanic and Atmospheric Research (OAR)	Drought in urban water systems: Learning lessons for climate adaptive capacity
Office of Oceanic and Atmospheric Research (OAR)	Dynamical and Thermodynamical Influences of the Maritime Continent on ENSO Evolution
Office of Oceanic and Atmospheric Research (OAR)	Ecophysiology of mesophotic reef-building corals in Hawai'i is influenced by symbiont–host associations, photoacclimatization, trophic plasticity, and adaptation
Office of Oceanic and Atmospheric Research (OAR)	Ectoparasitism on deep-sea fishes in the western North Atlantic: In situ observations from ROV surveys
Office of Oceanic and Atmospheric Research (OAR)	Effective fetch and relative exposure index maps for the Laurentian Great Lakes
Office of Oceanic and Atmospheric Research (OAR)	El Niño and coral larval dispersal across the eastern Pacific marine barrier
Office of Oceanic and Atmospheric Research (OAR)	Electromagnetic Model Reliably Predicts Radar Scattering Characteristics of Airborne Organisms
Office of Oceanic and Atmospheric Research (OAR)	Energy Landscapes in Hydrothermal Chimneys Shape Distributions of Primary Producers
Office of Oceanic and Atmospheric Research (OAR)	Estimating fish abundance at spawning aggregations from courtship sound levels
Office of Oceanic and Atmospheric Research (OAR)	Estuarine Suspended Sediment Dynamics: Observations Derived from over a Decade of Satellite Data
Office of Oceanic and Atmospheric Research (OAR)	Evaluating Boston Harbor Cleanup: An Ecosystem Valuation Approach
Office of Oceanic and Atmospheric Research (OAR)	Evaluation of heat wave forecasts seamlessly across subseasonal timescales

Office of Oceanic and Atmospheric Research (OAR)	Evidence and patterns of tuna spawning inside a large no-take Marine Protected Area
Office of Oceanic and Atmospheric Research (OAR)	Evidence for exocellular Arsenic in Fronds of <i>Pteris vittata</i>
Office of Oceanic and Atmospheric Research (OAR)	Evidence of salt accumulation in beach intertidal zone due to evaporation
Office of Oceanic and Atmospheric Research (OAR)	Fit for purpose? Transforming National Meteorological and Hydrological Services into National Climate Service Centers
Office of Oceanic and Atmospheric Research (OAR)	From principles to action: Applying the National Research Council's principles for effective decision support to the Federal Emergency Management Agency's watch office
Office of Oceanic and Atmospheric Research (OAR)	Future global mortality from changes in air pollution attributable to climate change
Office of Oceanic and Atmospheric Research (OAR)	Future Warming Patterns Linked to Today's Climate Variability
Office of Oceanic and Atmospheric Research (OAR)	Genotype-by-sequencing of three geographically distinct populations of Olympia oysters, <i>Ostrea lurida</i>
Office of Oceanic and Atmospheric Research (OAR)	GHWR, a multi-method global heatwave and warm-spell record and toolbox
Office of Oceanic and Atmospheric Research (OAR)	Glacial Inception in Marine Isotope Stage 19: An Orbital Analog for a Natural Holocene Climate
Office of Oceanic and Atmospheric Research (OAR)	Global analysis of the effect of local climate on the hatchling output of leatherback turtles
Office of Oceanic and Atmospheric Research (OAR)	Global Carbon Budget 2019



Office of Oceanic and Atmospheric Research (OAR)	Global Survey of Precipitation Properties Observed during Tropical Cyclogenesis and Their Differences Compared to Nondeveloping Disturbances
Office of Oceanic and Atmospheric Research (OAR)	Habitat Differences in Deep-Sea Megafaunal Communities off New Zealand: Implications for Vulnerability to Anthropogenic Disturbance and Management
Office of Oceanic and Atmospheric Research (OAR)	Hawaii Coastal Seawater CO2 Network: A Statistical Evaluation of a Decade of Observations on Tropical Coral Reefs
Office of Oceanic and Atmospheric Research (OAR)	Hot Spots of Carbon and Alkalinity Cycling in the Coastal Oceans
Office of Oceanic and Atmospheric Research (OAR)	Hydrogen Limitation and Syntrophic Growth among Natural Assemblages of Thermophilic Methanogens at Deep-sea Hydrothermal Vents
Office of Oceanic and Atmospheric Research (OAR)	Impact of Land Surface Initialization and Land-Atmosphere Coupling on the Prediction of the Indian Summer Monsoon with the CFSv2
Office of Oceanic and Atmospheric Research (OAR)	Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence
Office of Oceanic and Atmospheric Research (OAR)	Increasing the usability of drought information for risk management in the Arbuckle Simpson Aquifer, Oklahoma
Office of Oceanic and Atmospheric Research (OAR)	Individual and Population Level Variation in the Reproductive Potential of Deep-Sea Corals From Different Regions Within the Gulf of Maine
Office of Oceanic and Atmospheric Research (OAR)	Intrabasin Variability of East Pacific Tropical Cyclones During ENSO Regulated by Central American Gap Winds

Office of Oceanic and Atmospheric Research (OAR)	JCSDA quarterly. No. 67, Spring 2020
Office of Oceanic and Atmospheric Research (OAR)	Large-scale modeled contemporary and future water temperature estimates for 10774 Midwestern US Lakes
Office of Oceanic and Atmospheric Research (OAR)	Leveraging Remote-Sensing Data to Assess Garage Door Damage and Associated Roof Damage
Office of Oceanic and Atmospheric Research (OAR)	Little evidence of reduced global tropical cyclone activity following recent volcanic eruptions
Office of Oceanic and Atmospheric Research (OAR)	Managing climate risks on the ranch with limited drought information
Office of Oceanic and Atmospheric Research (OAR)	Mapping Data Acquisition and Processing Summary Report. Cruise EX-10-02: ROV Integration, Shakedown, Field Trials (Shakedown)
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Office of Oceanic and Atmospheric Research (OAR)	Marine spatial planning makes room for offshore aquaculture in crowded coastal waters
Office of Oceanic and Atmospheric Research (OAR)	Mesophotic Coral Ecosystems: A Geoacoustically Derived Proxy for Habitat and Relative Diversity for the Leeward Shelf of Bonaire, Dutch Caribbean
Office of Oceanic and Atmospheric Research (OAR)	Microbiome differences in disease-resistant vs. susceptible <i>Acropora</i> corals subjected to disease challenge assays
Office of Oceanic and Atmospheric Research (OAR)	Migrating eastern North Pacific gray whale call and blow rates estimated from acoustic recordings, infrared camera video, and visual sightings
Office of Oceanic and Atmospheric Research (OAR)	Mineralogy of Deep-Sea Coral Aragonites as a Function of Aragonite Saturation State
Office of Oceanic and Atmospheric Research (OAR)	Mixed-Species Cetacean Groups
Office of Oceanic and Atmospheric Research (OAR)	Monitoring the impact of desert dust outbreaks for air quality for health studies
Office of Oceanic and Atmospheric Research (OAR)	<i>Montastraea cavernosa</i> corallite structure demonstrates distinct morphotypes across shallow and mesophotic depth zones in the Gulf of Mexico
Office of Oceanic and Atmospheric Research (OAR)	Multi-Annual Climate Predictions for Fisheries: An Assessment of Skill of Sea Surface Temperature Forecasts for Large Marine Ecosystems

Office of Oceanic and Atmospheric Research (OAR)	Net Community Metabolism and Seawater Carbonate Chemistry Scale Non-intuitively with Coral Cover
Office of Oceanic and Atmospheric Research (OAR)	New frontiers in ocean exploration: The E/V Nautilus 2014 Gulf of Mexico and Caribbean field season
Office of Oceanic and Atmospheric Research (OAR)	Next-century ocean acidification and warming both reduce calcification rate, but only acidification alters skeletal morphology of reef-building coral <i>Siderastrea siderea</i>
Office of Oceanic and Atmospheric Research (OAR)	Nitrogen-fixing trees could exacerbate climate change under elevated nitrogen deposition
Office of Oceanic and Atmospheric Research (OAR)	Ocean variability and air-sea fluxes produced by atmospheric rivers
Office of Oceanic and Atmospheric Research (OAR)	On the discrepancy between observed and CMIP5 multi-model simulated Barents Sea winter sea ice decline
Office of Oceanic and Atmospheric Research (OAR)	Origins and variability of extreme precipitation in the Santa Ynez River Basin of Southern California
Office of Oceanic and Atmospheric Research (OAR)	OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction
Office of Oceanic and Atmospheric Research (OAR)	Passive buoyant tracers in the ocean surface boundary layer: 2. Observations and simulations of microplastic marine debris
Office of Oceanic and Atmospheric Research (OAR)	Past and future climate change in the context of memorable seasonal extremes
Office of Oceanic and Atmospheric Research (OAR)	pH Regulation and Tissue Coordination Pathways Promote Calcium Carbonate Bioerosion by Excavating Sponges

Office of Oceanic and Atmospheric Research (OAR)	Phylogenetic, genomic, and biogeographic characterization of a novel and ubiquitous marine invertebrate-associated Rickettsiales parasite, <i>Candidatus Aquarickettsia rohweri</i> , gen. nov., sp. nov
Office of Oceanic and Atmospheric Research (OAR)	Polar Ocean Observations: A Critical Gap in the Observing System and Its Effect on Environmental Predictions From Hours to a Season
Office of Oceanic and Atmospheric Research (OAR)	Poleward upgliding Siberian atmospheric rivers over sea ice heat up Arctic upper air
Office of Oceanic and Atmospheric Research (OAR)	Populations of the coral species <i>Montastraea cavernosa</i> on the Belize Barrier Reef lack vertical connectivity
Office of Oceanic and Atmospheric Research (OAR)	Precipitation in a warming world: Assessing projected hydro-climate changes in California and other Mediterranean climate regions
Office of Oceanic and Atmospheric Research (OAR)	Precipitation regime change in Western North America: The role of Atmospheric Rivers
Office of Oceanic and Atmospheric Research (OAR)	Predictability of US West Coast Ocean Temperatures is not solely due to ENSO
Office of Oceanic and Atmospheric Research (OAR)	Present and future Köppen-Geiger climate classification maps at 1-km resolution
Office of Oceanic and Atmospheric Research (OAR)	Pronounced centennial-scale Atlantic Ocean climate variability correlated with Western Hemisphere hydroclimate
Office of Oceanic and Atmospheric Research (OAR)	Prospective Design, Rapid Prototyping, and Testing of Smart Dressings, Drug Delivery Patches, and Replacement Body Parts Using Microscopy Aided Design and ManufacturE (MADAME)

Office of Oceanic and Atmospheric Research (OAR)	Prospects for a prolonged slowdown in global warming in the early 21st century
Office of Oceanic and Atmospheric Research (OAR)	Quantifying Anthropogenic Stress on Groundwater Resources
Office of Oceanic and Atmospheric Research (OAR)	Real-Time Detection of Tsunami Ionospheric Disturbances with a Stand-Alone GNSS Receiver: A Preliminary Feasibility Demonstration
Office of Oceanic and Atmospheric Research (OAR)	Recent enhancement of central Pacific El Nino variability relative to last eight centuries
Office of Oceanic and Atmospheric Research (OAR)	Recent increase of surface particulate matter concentrations in the Seoul Metropolitan Area, Korea
Office of Oceanic and Atmospheric Research (OAR)	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay
Office of Oceanic and Atmospheric Research (OAR)	Reproductive Seasonality of Coral Assemblages in the Karimunjawa Archipelago, Indonesia
Office of Oceanic and Atmospheric Research (OAR)	Robust skill of decadal climate predictions
Office of Oceanic and Atmospheric Research (OAR)	Role of eyewall and rainband eddy forcing in tropical cyclone intensification
Office of Oceanic and Atmospheric Research (OAR)	Seasonal Dynamics in Dissolved Organic Matter, Hydrogen Peroxide, and Cyanobacterial Blooms in Lake Erie
Office of Oceanic and Atmospheric Research (OAR)	Seasonal patterns of surface inorganic carbon system variables in the Gulf of Mexico inferred from a regional high-resolution ocean biogeochemical model
Office of Oceanic and Atmospheric Research (OAR)	Sensitivity of El Nino intensity and timing to preceding subsurface heat magnitude

Office of Oceanic and Atmospheric Research (OAR)	Shipping Route Optimization and Carbon Emissions Reduction: Environmental Factors
Office of Oceanic and Atmospheric Research (OAR)	Simulated climate adaptation in storm-water systems: Evaluating the efficiency of within-system flexibility
Office of Oceanic and Atmospheric Research (OAR)	Skillful forecasting of global fire activity using seasonal climate predictions
Office of Oceanic and Atmospheric Research (OAR)	Skillful empirical subseasonal prediction of landfalling atmospheric river activity using the Madden–Julian oscillation and quasi-biennial oscillation
Office of Oceanic and Atmospheric Research (OAR)	Sources, Distributions, and Dynamics of Dissolved Organic Matter in the Canada and Makarov Basins
Office of Oceanic and Atmospheric Research (OAR)	Spatial and temporal variability of inherent and apparent optical properties in western Lake Erie: Implications for water quality remote sensing
Office of Oceanic and Atmospheric Research (OAR)	Spiraling pathways of global deep waters to the surface of the Southern Ocean
Office of Oceanic and Atmospheric Research (OAR)	Stratified coastal ocean interactions with tropical cyclones
Office of Oceanic and Atmospheric Research (OAR)	Sub-seasonal Predictability of the Onset and Demise of the Rainy Season over Monsoonal Regions
Office of Oceanic and Atmospheric Research (OAR)	Success of Montreal Protocol Demonstrated by Comparing High-Quality UV Measurements with "World Avoided" Calculations from Two Chemistry-Climate Models

Office of Oceanic and Atmospheric Research (OAR)	Successional Dynamics and Seascape-Level Patterns of Microbial Communities on the Canopy-Forming Kelps <i>Nereocystis luetkeana</i> and <i>Macrocystis pyrifera</i>
Office of Oceanic and Atmospheric Research (OAR)	Summer precipitation anomalies in Asia and North America induced by Eurasian non-monsoon land heating versus ENSO
Office of Oceanic and Atmospheric Research (OAR)	Supercooled liquid fogs over the central Greenland Ice Sheet
Office of Oceanic and Atmospheric Research (OAR)	Surface ocean carbon dioxide variability in South Pacific boundary currents and Subantarctic waters
Office of Oceanic and Atmospheric Research (OAR)	Surface ocean pH and buffer capacity: past, present and future
Office of Oceanic and Atmospheric Research (OAR)	Symbiodinium Functional Diversity in the Coral <i>Siderastrea siderea</i> Is Influenced by Thermal Stress and Reef Environment, but Not Ocean Acidification
Office of Oceanic and Atmospheric Research (OAR)	Temporal migration patterns between natal locations of ruby-throated hummingbirds ( <i>Archilochus colubris</i> ) and their Gulf Coast stopover site
Office of Oceanic and Atmospheric Research (OAR)	The cascade of global trade to large climate forcing over the Tibetan Plateau glaciers
Office of Oceanic and Atmospheric Research (OAR)	The climate hazards infrared precipitation with stations—a new environmental record for monitoring extremes
Office of Oceanic and Atmospheric Research (OAR)	The establishment of a pelagic Sargassum population in the tropical Atlantic: Biological consequences of a basin-scale long distance dispersal event



Office of Oceanic and Atmospheric Research (OAR)	The Footprint of the Inter-decadal Pacific Oscillation in Indian Ocean Sea Surface Temperatures
Office of Oceanic and Atmospheric Research (OAR)	The formation of the ocean's anthropogenic carbon reservoir
Office of Oceanic and Atmospheric Research (OAR)	The potential role of land cover on secular changes of the hydroclimate of Peninsular Florida
Office of Oceanic and Atmospheric Research (OAR)	The sub-seasonal to seasonal prediction project (S2S) and the prediction of extreme events
Office of Oceanic and Atmospheric Research (OAR)	Thermal and pCO <sub>2</sub> Stress Elicit Divergent Transcriptomic Responses in a Resilient Coral
Office of Oceanic and Atmospheric Research (OAR)	Thinning sea ice weakens buttressing force of iceberg melange and promotes calving
Office of Oceanic and Atmospheric Research (OAR)	Time of Emergence of Surface Ocean Carbon Dioxide Trends in the North American Coastal Margins in Support of Ocean Acidification Observing System Design
Office of Oceanic and Atmospheric Research (OAR)	Tornado outbreak variability follows Taylor's power law of fluctuation scaling and increases dramatically with severity
Office of Oceanic and Atmospheric Research (OAR)	Tower measurement network of in-situ CO <sub>2</sub> , CH <sub>4</sub> , and CO in support of the Indianapolis FLUX (INFLUX) Experiment
Office of Oceanic and Atmospheric Research (OAR)	Track Uncertainty in High-Resolution HWRF Ensemble Forecasts of Hurricane Joaquin
Office of Oceanic and Atmospheric Research (OAR)	Trends in weather type frequencies across North America
Office of Oceanic and Atmospheric Research (OAR)	Tropical explosive volcanic eruptions can trigger El Nino by cooling tropical Africa

Office of Oceanic and Atmospheric Research (OAR)	Tropical explosive volcanic eruptions can trigger El Niño China's coal mine methane regulations have not curbed growing emissions by cooling tropical Africa
Office of Oceanic and Atmospheric Research (OAR)	Uncertainty and hotspots in 21st century projections of agricultural drought from CMIP5 models
Office of Oceanic and Atmospheric Research (OAR)	Unusually warm Indian Ocean sea surface temperatures help to arrest development of El Niño in 2014
Office of Oceanic and Atmospheric Research (OAR)	Urban stormwater runoff negatively impacts lateral line development in larval zebrafish and salmon embryos
Office of Oceanic and Atmospheric Research (OAR)	Warm hole in Pacific Arctic sea ice cover forced mid-latitude Northern Hemisphere cooling during winter 2017–18
Office of Oceanic and Atmospheric Research (OAR)	Western Pacific hydroclimate linked to global climate variability over the past two millennia
Office of Oceanic and Atmospheric Research (OAR)	Year-to-year Variability in Arctic Minimum Sea Ice Extent and its Preconditions in Observations and the CESM Large Ensemble Simulations
Sea Grant Publications	Agricultural trade publications and the 2012 Midwestern U.S. drought: A missed opportunity for climate risk communication
Sea Grant Publications	Anthropogenic climate change has altered primary productivity in Lake Superior
Sea Grant Publications	Assessment of climate change impacts on water balance components of Heeia watershed in Hawaii

Sea Grant Publications	Building the Knowledge-to-Action Pipeline in North America: Connecting Ocean Acidification Research and Actionable Decision Support
Sea Grant Publications	Consistent differences in fitness traits across multiple generations of Olympia oysters
Sea Grant Publications	Diel population and functional synchrony of microbial communities on coral reefs
Sea Grant Publications	Diversity of Diatom Communities in Delaware Tidal Wetland and Their Relationship to Water Quality
Sea Grant Publications	Do invasive quagga mussels alter CO2 dynamics in the Laurentian Great Lakes?
Sea Grant Publications	Economic feasibility of producing oysters using a small-scale Hawaiian fishpond model
Sea Grant Publications	Effect of land use and groundwater flow path on submarine groundwater discharge nutrient flux
Sea Grant Publications	Egg quality traits and predictors of embryo and fry viability in red snapper <i>Lutjanus campechanus</i>
Sea Grant Publications	Evaluating Boston Harbor Cleanup: An Ecosystem Valuation Approach
Sea Grant Publications	Evidence of salt accumulation in beach intertidal zone due to evaporation
Sea Grant Publications	Genome Sequence Analysis of CsRV1: A Pathogenic Reovirus that Infects the Blue Crab <i>Callinectes sapidus</i> Across Its Trans-Hemispheric Range

Sea Grant Publications	Hawaii Coastal Seawater CO2 Network: A Statistical Evaluation of a Decade of Observations on Tropical Coral Reefs
Sea Grant Publications	High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter
Sea Grant Publications	Individual and Population Level Variation in the Reproductive Potential of Deep-Sea Corals From Different Regions Within the Gulf of Maine
Sea Grant Publications	Marine spatial planning makes room for offshore aquaculture in crowded coastal waters
Sea Grant Publications	Meeting Regional, Coastal and Ocean User Needs With Tailored Data Products: A Stakeholder-Driven Process
Sea Grant Publications	Microplastic in riverine fish is connected to species traits
Sea Grant Publications	Modeling multiple sea level rise stresses reveals up to twice the land at risk compared to strictly passive flooding methods
Sea Grant Publications	New England harbor seal H3N8 influenza virus retains avian-like receptor specificity
Sea Grant Publications	Observations of nearshore groundwater discharge: Kahekili Beach Park submarine springs, Maui, Hawaii

Sea Grant Publications	Plant detritus is selectively consumed by estuarine copepods and can augment their survival
Sea Grant Publications	Practical Approaches and Advances in Spatial Tools to Achieve Multi-Objective Marine Spatial Planning
Sea Grant Publications	Prevalence of influenza A virus in live-captured North Atlantic gray seals: a possible wild reservoir
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Sea Grant Publications	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay
Sea Grant Publications	Response of Sea Urchin Fitness Traits to Environmental Gradients Across the Southern California Oxygen Minimum Zone
Sea Grant Publications	Sources and spatial variability of groundwater-delivered nutrients in Maunalua Bay, O'ahu, Hawai'i
Sea Grant Publications	Spatial Planning of Marine Aquaculture Under Climate Decadal Variability: A Case Study for Mussel Farms in Southern California
Sea Grant Publications	Temporal migration patterns between natal locations of ruby-throated hummingbirds ( <i>Archilochus colubris</i> ) and their Gulf Coast stopover site
Sea Grant Publications	The Dynamics and Impact of Ocean Acidification and Hypoxia: Insights from Sustained Investigations in the Northern California Current Large Marine Ecosystem

<b>Published Date</b>	<b>Public Access Available On</b>	<b>Stacks Downloads</b>	<b>Stacks Views</b>	<b>Email</b>	<b>Shares</b>	<b>Prints</b>
2020-01-01		8	5	0	0	0
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2018-01-01		0	0	0	0	0
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2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2018-01-01		4	8	0	0	0

2019-01-01		0	0	0	0	0
2020-01-01		5	6	0	0	0
2020-01-01		17	19	0	0	0
2016-01-01		0	0	0	0	0
2018-01-01		1	6	0	0	0
2018-01-01		0	1	0	1	0
2017-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0



2017-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		0	2	0	0	0
2019-01-01		0	4	1	1	1
2018-01-01		1	4	1	1	1
2019-01-01		0	7	0	0	0
2018-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2019-01-01		3	1	0	0	0

2019-01-01		0	0	0	0	0
2020-01-01		8	19	0	0	0
2016-01-01		1	1	0	0	0
2018-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2020-01-01		1	2	0	0	0
2016-01-01		0	0	0	0	0
2020-01-01		28	5	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		0	3	0	0	0

2019-01-01		1	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		1	0	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0

2017-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2020-01-01		4	2	0	0	0
2019-01-01		0	0	0	0	0
2016-01-01		0	1	0	0	0
2019-01-01		21	5	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0

2019-01-01		0	1	0	0	0
2020-01-01		3	7	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		17	8	0	0	0
2019-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2020-01-01		1	0	0	0	0
2020-01-01		13	5	1	1	1

2018-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2019-01-01		3	3	0	0	0
2017-01-01		0	1	0	0	0
2020-01-01		28	7	0	0	0
2018-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2016-01-01		1	1	0	0	0
2020-01-01		13	5	0	0	0
2020-01-01		8	5	0	0	0

2020-01-01		14	4	0	0	0
2020-01-01		11	2	0	0	0
2020-01-01		21	5	0	0	0
2020-01-01		4	1	0	0	0
2020-01-01		10	3	0	0	0
2020-01-01		6	3	1	1	1
2017-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2015-01-01		1	7	0	0	0
2019-01-01		0	0	0	0	0

2020-01-01		13	5	1	1	1
2019-01-01		0	4	1	1	1
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2018-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2018-01-01		1	4	1	1	1
2019-01-01		0	7	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0



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2019-01-01		0	0	0	0	0
2020-01-01		22	22	1	1	1
2019-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
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2019-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0

2019-01-01		2	0	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		3	3	0	0	0
2017-01-01		0	1	0	0	0
2018-01-01		0	0	0	0	0
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2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0

2019-01-01		3	1	0	0	0
2018-01-01		0	1	0	0	0
2019-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2020-01-01		28	7	0	0	0
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2019-01-01		0	0	0	0	0
2020-01-01		8	19	0	0	0
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2015-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0

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2016-01-01		1	1	0	0	0
2019-01-01		0	1	0	0	0
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2016-01-01		0	0	0	0	0
2016-01-01		1	0	0	0	0
2019-01-01		0	3	0	0	0
2017-01-01		0	0	0	0	0

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2017-01-01		1	3	1	1	1
2018-01-01		0	0	0	0	0
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2018-01-01		0	0	0	0	0
2020-01-01		13	5	0	0	0
2020-01-01		8	5	0	0	0
2020-01-01		14	4	0	0	0
2020-01-01		11	2	0	0	0
2020-01-01		21	5	0	0	0
2020-01-01		4	1	0	0	0
2020-01-01		10	3	0	0	0

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2017-01-01		0	0	0	0	0
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2018-01-01		0	0	0	0	0
2020-01-01		109	77	0	0	0
2019-01-01		1	0	0	0	0
2019-01-01		2	4	0	0	0
2017-01-01		1	1	0	0	0



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2015-01-01		1	7	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
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2020-01-01		18	5	0	0	0
2015-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2019-01-01		1	1	0	0	0

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2018-01-01		0	0	0	0	0
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2017-01-01		0	1	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
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2018-01-01		0	1	0	0	0
2018-01-01		0	0	0	0	0

2016-01-01		0	0	0	0	0
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2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2020-01-01		4	2	0	0	0
2016-01-01		0	0	0	0	0

2020-01-01		2	2	0	0	0
2018-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
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2016-01-01		0	0	0	0	0
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2017-01-01		0	0	0	0	0
2016-01-01		0	1	0	0	0
2017-01-01		0	0	0	0	0
2019-01-01		21	5	0	0	0

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2016-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
2019-01-01		0	0	0	0	0
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2018-01-01		0	3	0	0	0
2019-01-01		0	0	0	0	0
2015-01-01		0	0	0	0	0
2020-01-01		3	7	0	0	0

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2016-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
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2016-01-01		0	0	0	0	0
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2019-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0

2019-01-01		17	8	0	0	0
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2018-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
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2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0

2019-01-01		3	3	0	0	0
2018-01-01		0	1	0	0	0
2019-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
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2017-01-01		1	0	0	0	0
2019-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0



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2017-01-01		0	0	0	0	0
2019-01-01		0	3	0	0	0
2018-01-01		3	2	0	0	0
2019-01-01		0	0	0	0	0
2018-01-01		0	1	0	0	0
2018-01-01		0	0	0	0	0
2016-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0

2019-01-01		0	0	0	0	0
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2016-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2018-01-01		0	0	0	0	0
2017-01-01		0	0	0	0	0
2019-01-01		4	4	0	0	0
2018-01-01		0	3	0	0	0
2019-01-01		0	0	0	0	0

Funding Type Code	DOI	Article Type
Intramural	<a href="https://doi.org/10.25923/xagj-1854">https://doi.org/10.25923/xagj-1854</a>	Technical Report
Intramural	<a href="https://doi.org/10.25923/rxd1-d467">https://doi.org/10.25923/rxd1-d467</a>	Technical Report
Intramural	<a href="https://doi.org/10.25923/nc9w-5716">https://doi.org/10.25923/nc9w-5716</a>	Technical Report
Intramural	<a href="https://doi.org/10.25923/5662-r141">https://doi.org/10.25923/5662-r141</a>	Technical Report
Intramural	<a href="https://doi.org/10.25923/53gr-cn06">https://doi.org/10.25923/53gr-cn06</a>	Technical Report
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00101">https://doi.org/10.3389/fmars.2018.00101</a>	Journal Article
Intramural		Technical Report
Intramural		Technical Report
Intramural	<a href="https://doi.org/10.25923/ws5s-km69">https://doi.org/10.25923/ws5s-km69</a>	Technical Memorandum

Intramural	<a href="https://doi.org/10.1016/j.dib.2016.07.025">https://doi.org/10.1016/j.dib.2016.07.025</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00222">https://doi.org/10.3389/fmars.2019.00222</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00162">https://doi.org/10.3389/fmars.2018.00162</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/sdata.2017.176">https://doi.org/10.1038/sdata.2017.176</a>	Journal Article
Intramural		Technical Report
Intramural	<a href="https://doi.org/10.25923/kep4-nw49">https://doi.org/10.25923/kep4-nw49</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.3389/fmars.2016.00115">https://doi.org/10.3389/fmars.2016.00115</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/00qd-vp68">https://doi.org/10.25923/00qd-vp68</a>	Technical Report
Intramural		Technical Report
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00212">https://doi.org/10.3389/fmars.2019.00212</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-25742-9">https://doi.org/10.1038/s41598-018-25742-9</a>	Journal Article



Intramural		Professional Paper
Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.1038/s41598-017-05090-w">https://doi.org/10.1038/s41598-017-05090-w</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/ncomms10267">https://doi.org/10.1038/ncomms10267</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00225">https://doi.org/10.3389/fmars.2019.00225</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2017.00158">https://doi.org/10.3389/fmars.2017.00158</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41612-019-0074-8">https://doi.org/10.1038/s41612-019-0074-8</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-50875-w">https://doi.org/10.1038/s41598-019-50875-w</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/4pt1-wx36">https://doi.org/10.25923/4pt1-wx36</a>	Professional Paper

Intramural	<a href="https://doi.org/10.1038/s41597-019-0239-7">https://doi.org/10.1038/s41597-019-0239-7</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-44252-w">https://doi.org/10.1038/s41598-019-44252-w</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-33698-z">https://doi.org/10.1038/s41598-018-33698-z</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.heliyon.2016.e00079">https://doi.org/10.1016/j.heliyon.2016.e00079</a>	Journal Article
Intramural	<a href="https://dx.doi.org/10.3390/rs12060964">https://dx.doi.org/10.3390/rs12060964</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-48011-9">https://doi.org/10.1038/s41598-019-48011-9</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.heliyon.2017.e00241">https://doi.org/10.1016/j.heliyon.2017.e00241</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-10947-1">https://doi.org/10.1038/s41598-017-10947-1</a>	Journal Article
Intramural	<a href="http://dx.doi.org/10.3389/fmars.2020.00199">http://dx.doi.org/10.3389/fmars.2020.00199</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-55039-4">https://doi.org/10.1038/s41598-019-55039-4</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/sdata.2018.296">https://doi.org/10.1038/sdata.2018.296</a>	Journal Article





Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.25923/6gaf-yd81">https://doi.org/10.25923/6gaf-yd81</a>	Technical Report
Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.25923/ge3e-vc58">https://doi.org/10.25923/ge3e-vc58</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.1038/srep41476">https://doi.org/10.1038/srep41476</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-45752-5">https://doi.org/10.1038/s41598-019-45752-5</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.envint.2017.01.006">https://doi.org/10.1016/j.envint.2017.01.006</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fevo.2016.00070">https://doi.org/10.3389/fevo.2016.00070</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00203">https://doi.org/10.3389/fmars.2019.00203</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-03568-1">https://doi.org/10.1038/s41598-017-03568-1</a>	Journal Article

Intramural	<a href="https://doi.org/10.3389/fmars.2016.00050">https://doi.org/10.3389/fmars.2016.00050</a>	Journal Article
Intramural	<a href="http://dx.doi.org/10.1016/j.jenvman.2017.11.046">http://dx.doi.org/10.1016/j.jenvman.2017.11.046</a>	Journal Article
Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.1038/s41467-018-07044-w">https://doi.org/10.1038/s41467-018-07044-w</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00163">https://doi.org/10.3389/fmars.2018.00163</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/k5hk-x319">https://doi.org/10.25923/k5hk-x319</a>	Technical Report
Intramural	<a href="https://doi.org/10.1038/s41598-019-47618-2">https://doi.org/10.1038/s41598-019-47618-2</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/hyeh-mb74">https://doi.org/10.25923/hyeh-mb74</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00347">https://doi.org/10.3389/fmars.2019.00347</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fvets.2019.00372">https://doi.org/10.3389/fvets.2019.00372</a>	Journal Article
Intramural	<a href="https://doi.org/10.1111/1365-2664.12534">https://doi.org/10.1111/1365-2664.12534</a>	Journal Article

Intramural	<a href="https://doi.org/10.3389/fmicb.2018.01893">https://doi.org/10.3389/fmicb.2018.01893</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fvets.2019.00004">https://doi.org/10.3389/fvets.2019.00004</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-30901-z">https://doi.org/10.1038/s41598-018-30901-z</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-14984-8">https://doi.org/10.1038/s41598-017-14984-8</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/c2c2-vp31">https://doi.org/10.25923/c2c2-vp31</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.3389/fmars.2017.00116">https://doi.org/10.3389/fmars.2017.00116</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/srep17326">https://doi.org/10.1038/srep17326</a>	Journal Article
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Intramural		Technical Report
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Intramural		Technical Report
Intramural		Cruise Report
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Intramural		Technical Report
Intramural	<a href="https://doi.org/10.25923/snm3-ya76">https://doi.org/10.25923/snm3-ya76</a>	Technical Report
Intramural	<a href="https://doi.org/10.25923/zs3p-6z31">https://doi.org/10.25923/zs3p-6z31</a>	Technical Report

Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.1038/s41598-017-02819-5">https://doi.org/10.1038/s41598-017-02819-5</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41467-018-06695-z">https://doi.org/10.1038/s41467-018-06695-z</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.gecco.2017.02.003">https://doi.org/10.1016/j.gecco.2017.02.003</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-29106-1">https://doi.org/10.1038/s41598-018-29106-1</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2016.00077">https://doi.org/10.3389/fmars.2016.00077</a>	Journal Article
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Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.1038/srep28581">https://doi.org/10.1038/srep28581</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/ws5s-km69">https://doi.org/10.25923/ws5s-km69</a>	Technical Memorandum
Intramural		Report to Congress
Intramural	<a href="https://doi.org/10.1038/ncomms14557">https://doi.org/10.1038/ncomms14557</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-45366-x">https://doi.org/10.1038/s41598-019-45366-x</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.isci.2019.08.051">https://doi.org/10.1016/j.isci.2019.08.051</a>	Journal Article
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Intramural	<a href="https://doi.org/10.25923/cv2r-nw12">https://doi.org/10.25923/cv2r-nw12</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/2y01-3575">https://doi.org/10.25923/2y01-3575</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/1srx-dd09">https://doi.org/10.25923/1srx-dd09</a>	Biological Opinion
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Intramural	<a href="https://doi.org/10.25923/3k7v-ad17">https://doi.org/10.25923/3k7v-ad17</a>	Biological Opinion

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Intramural	<a href="https://doi.org/10.25923/1yfz-7z19">https://doi.org/10.25923/1yfz-7z19</a>	Biological Opinion
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Intramural	<a href="https://doi.org/10.25923/zf66-3m85">https://doi.org/10.25923/zf66-3m85</a>	Biological Opinion
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Intramural	<a href="https://doi.org/10.25923/nhzf-xt83">https://doi.org/10.25923/nhzf-xt83</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/gstk-m127">https://doi.org/10.25923/gstk-m127</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/624q-2j28">https://doi.org/10.25923/624q-2j28</a>	Biological Opinion

Intramural	<a href="https://doi.org/10.25923/nrc1-rv27">https://doi.org/10.25923/nrc1-rv27</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/xmnt-cc11">https://doi.org/10.25923/xmnt-cc11</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/awnz-m248">https://doi.org/10.25923/awnz-m248</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/bfef-0645">https://doi.org/10.25923/bfef-0645</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/bf1x-h796">https://doi.org/10.25923/bf1x-h796</a>	Biological Opinion



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Intramural	<a href="https://doi.org/10.1038/s41598-019-42288-6">https://doi.org/10.1038/s41598-019-42288-6</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/0ham-s803">https://doi.org/10.25923/0ham-s803</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/z38p-sy40">https://doi.org/10.25923/z38p-sy40</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.25923/xza2-9c97">https://doi.org/10.25923/xza2-9c97</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.25923/5we2-g460">https://doi.org/10.25923/5we2-g460</a>	Professional Paper

Intramural	<a href="https://doi.org/10.1038/s41598-017-03383-8">https://doi.org/10.1038/s41598-017-03383-8</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-40065-z">https://doi.org/10.1038/s41598-019-40065-z</a>	Journal Article
Intramural	<a href="https://doi.org/10.1016/j.gecco.2019.e00608">https://doi.org/10.1016/j.gecco.2019.e00608</a>	Journal Article
Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.1038/srep36393">https://doi.org/10.1038/srep36393</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s42003-018-0112-9">https://doi.org/10.1038/s42003-018-0112-9</a>	Journal Article
Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.1038/s41598-017-09979-4">https://doi.org/10.1038/s41598-017-09979-4</a>	Journal Article

Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.3389/fmars.2016.00166">https://doi.org/10.3389/fmars.2016.00166</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/srep36095">https://doi.org/10.1038/srep36095</a>	Journal Article

Intramural		Professional Paper
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00046">https://doi.org/10.3389/fmars.2018.00046</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/8y7r-0g25">https://doi.org/10.25923/8y7r-0g25</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.1038/s41598-019-48417-5">https://doi.org/10.1038/s41598-019-48417-5</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2016.00283">https://doi.org/10.3389/fmars.2016.00283</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fgene.2019.00327">https://doi.org/10.3389/fgene.2019.00327</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/ncomms11693">https://doi.org/10.1038/ncomms11693</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41467-019-10972-w">https://doi.org/10.1038/s41467-019-10972-w</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-23006-0">https://doi.org/10.1038/s41598-018-23006-0</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00155">https://doi.org/10.3389/fmars.2019.00155</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2017.00121">https://doi.org/10.3389/fmars.2017.00121</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/1s8m-z563">https://doi.org/10.25923/1s8m-z563</a>	Technical Memorandum



Intramural	<a href="https://doi.org/10.25923/ckxr-vw68">https://doi.org/10.25923/ckxr-vw68</a>	Technical Report
Intramural	<a href="https://doi.org/10.1038/srep45765">https://doi.org/10.1038/srep45765</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-50942-2">https://doi.org/10.1038/s41598-019-50942-2</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-07425-z">https://doi.org/10.1038/s41598-017-07425-z</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00159">https://doi.org/10.3389/fmars.2019.00159</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00036">https://doi.org/10.3389/fmars.2019.00036</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fevo.2016.00061">https://doi.org/10.3389/fevo.2016.00061</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00172">https://doi.org/10.3389/fmars.2019.00172</a>	Journal Article
Intramural		Professional Paper
Intramural		Professional Paper

Intramural	<a href="https://doi.org/10.25923/2prh-0z06">https://doi.org/10.25923/2prh-0z06</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.1111/1365-2656.12618">https://doi.org/10.1111/1365-2656.12618</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00222">https://doi.org/10.3389/fmars.2019.00222</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00162">https://doi.org/10.3389/fmars.2018.00162</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-48700-5">https://doi.org/10.1038/s41598-019-48700-5</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/sdata.2017.176">https://doi.org/10.1038/sdata.2017.176</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-13359-3">https://doi.org/10.1038/s41598-017-13359-3</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-43036-6">https://doi.org/10.1038/s41598-019-43036-6</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00212">https://doi.org/10.3389/fmars.2019.00212</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/kep4-nw49">https://doi.org/10.25923/kep4-nw49</a>	Biological Opinion

Intramural	<a href="http://dx.doi.org/10.1038/s41598-019-54855-y">http://dx.doi.org/10.1038/s41598-019-54855-y</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-49115-y">https://doi.org/10.1038/s41598-019-49115-y</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/srep21213">https://doi.org/10.1038/srep21213</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-30817-8">https://doi.org/10.1038/s41598-018-30817-8</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/0t66-hh15">https://doi.org/10.25923/0t66-hh15</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.1038/ncomms10581">https://doi.org/10.1038/ncomms10581</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00393">https://doi.org/10.3389/fmars.2019.00393</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-11059-6">https://doi.org/10.1038/s41598-017-11059-6</a>	Journal Article
Intramural		Professional Paper

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Intramural	<a href="https://doi.org/10.3389/fmars.2017.00348">https://doi.org/10.3389/fmars.2017.00348</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/ncomms12488">https://doi.org/10.1038/ncomms12488</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-38144-8">https://doi.org/10.1038/s41598-018-38144-8</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2019.00003">https://doi.org/10.3389/fmars.2019.00003</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/emi.2016.77">https://doi.org/10.1038/emi.2016.77</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2017.00413">https://doi.org/10.3389/fmars.2017.00413</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/srep33824">https://doi.org/10.1038/srep33824</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/v67x-kk62">https://doi.org/10.25923/v67x-kk62</a>	Professional Paper

Intramural	<a href="http://dx.doi.org/10.1016/j.ecss.2019.04.022">http://dx.doi.org/10.1016/j.ecss.2019.04.022</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-43435-9">https://doi.org/10.1038/s41598-019-43435-9</a>	Journal Article
Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.25923/29jy-5818">https://doi.org/10.25923/29jy-5818</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.25923/89hq-ra80">https://doi.org/10.25923/89hq-ra80</a>	Biological Opinion
Intramural	<a href="https://doi.org/10.3389/fmars.2016.00005">https://doi.org/10.3389/fmars.2016.00005</a>	Journal Article
Intramural		Professional Paper
Intramural		Technical Memorandum

Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.1038/s41598-017-00457-5">https://doi.org/10.1038/s41598-017-00457-5</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/fa6j-1y43">https://doi.org/10.25923/fa6j-1y43</a>	Technical Report
Intramural	<a href="https://doi.org/10.1038/s41598-019-39050-3">https://doi.org/10.1038/s41598-019-39050-3</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-017-03560-9">https://doi.org/10.1038/s41598-017-03560-9</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2017.00260">https://doi.org/10.3389/fmars.2017.00260</a>	Journal Article
Intramural	<a href="https://doi.org/10.25923/qq2e-e198">https://doi.org/10.25923/qq2e-e198</a>	Technical Report
Intramural	<a href="https://doi.org/10.1038/s41598-018-31881-w">https://doi.org/10.1038/s41598-018-31881-w</a>	Journal Article
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Intramural	<a href="https://doi.org/10.25923/1f8j-d564">https://doi.org/10.25923/1f8j-d564</a>	Professional Paper

Intramural	<a href="https://doi.org/10.25923/4tdk-eg57">https://doi.org/10.25923/4tdk-eg57</a>	Professional Paper
Intramural	<a href="https://doi.org/10.25923/57nb-8138">https://doi.org/10.25923/57nb-8138</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.25923/5wpm-qt71">https://doi.org/10.25923/5wpm-qt71</a>	Technical Report
Intramural		Professional Paper
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Intramural	<a href="https://doi.org/10.25923/64pf-sc70">https://doi.org/10.25923/64pf-sc70</a>	Professional Paper
Intramural	<a href="https://doi.org/10.25923/pcd2-d987">https://doi.org/10.25923/pcd2-d987</a>	Technical Report

Intramural	<a href="https://doi.org/10.1038/s41598-019-52792-4">https://doi.org/10.1038/s41598-019-52792-4</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/srep19671">https://doi.org/10.1038/srep19671</a>	Journal Article
Intramural	<a href="https://doi.org/10.3389/fmars.2018.00226">https://doi.org/10.3389/fmars.2018.00226</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-56232-1">https://doi.org/10.1038/s41598-019-56232-1</a>	Journal Article
Intramural	<a href="http://dx.doi.org/10.1016/j.rsma.2019.100657">http://dx.doi.org/10.1016/j.rsma.2019.100657</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-018-37527-1">https://doi.org/10.1038/s41598-018-37527-1</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-39351-7">https://doi.org/10.1038/s41598-019-39351-7</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-46947-6">https://doi.org/10.1038/s41598-019-46947-6</a>	Journal Article
Intramural	<a href="https://doi.org/10.1038/s41598-019-48546-x">https://doi.org/10.1038/s41598-019-48546-x</a>	Journal Article
Intramural		Technical Memorandum
Intramural	<a href="https://doi.org/10.1038/s41598-017-14743-9">https://doi.org/10.1038/s41598-017-14743-9</a>	Journal Article

Intramural	<a href="https://doi.org/10.25923/pnf2-2q77">https://doi.org/10.25923/pnf2-2q77</a>	Technical Memorandum
Intramural	<a href="https://doi.org/10.1038/srep23773">https://doi.org/10.1038/srep23773</a>	Journal Article
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Intramural	<a href="https://doi.org/10.1038/s41598-018-23971-6">https://doi.org/10.1038/s41598-018-23971-6</a>	Journal Article
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