



2022 *VIRTUAL*
ALASKA MARINE SCIENCE SYMPOSIUM
GULF OF ALASKA DAY

JANUARY 24-27, 2022
 AGENDA AT-A-GLANCE

† Bachelors Student
 * Master's Candidate
 ** Doctoral Candidate

TITLE	PRESENTER	TIME
MONDAY, JANUARY 24th, 2022		
MORNING KEYNOTE PRESENTATION West to East aboard USCGC Healy – Sampling Remote Corners of the Arctic	Captain Kenneth Boda, Commanding Officer of <i>USCGC Healy</i> Lieutenant Junior Grade Valerie Hines, <i>USCGC Healy</i> Lieutenant Junior Grade Madeline L. Colwell, <i>USCGC Healy</i>	9:00am - 10:00am LIVE (WEBEX)
MORNING PANEL DISCUSSION Transformative, Just, and Equitable: Indigenous Approaches in Research, Stewardship, and Collaboration	Moderator: Meda Dewitt Panelists: Wilson Justin Jessica Black Courtney Carothers Crystal Ciisquq Leonetti Danielle Stickman Raychelle Daniell	10:30am - 12:00pm LIVE (WEBEX)
AFTERNOON PANEL DISCUSSION Arctic Research Plan 2022-2026: Collaboration for Arctic Adaptation	Moderator: Liz Weinberg Panelists: George Roe David Payer John Vehmeyer John Pearce	1:00pm - 2:00pm LIVE (WEBEX)
TUESDAY, JANUARY 25th, 2022		
MORNING KEYNOTE PRESENTATION Bering Strait: At the Crossroads	Gay Sheffield, Associate Professor, UAF Marine Advisory Program/Alaska Sea Grant	9:00am - 9:45am LIVE (WEBEX)
MORNING PANEL DISCUSSION From Manuscript to Management: Interpreting Research to Support Ecosystem-based Fisheries Management	Moderator: Stephani Zador Panelists: Elizabeth C. Siddon Ivonne Ortiz Bridget Ferriss Franz Mueter Sean Rohan Heather Renner	11:00am - 12:00pm LIVE (WEBEX)
WEDNESDAY, JANUARY 26th, 2022		
MORNING KEYNOTE PRESENTATION ICES and Collaborative Marine Science Research in the North Atlantic, North Pacific and Arctic – Advancing Existing Partnerships and Building New Ones	Dr. Jörn Schmidt, Chair Science Committee, International Council for the Exploration of the Sea Dr. William Karp, ICES President & Affiliate Professor, University of Washington School of Aquatic and Fishery Sciences	9:00am - 10:00am LIVE (WEBEX)
MORNING PANEL DISCUSSION Proactive Planning to Address Climate Change impacts in the North Pacific	Moderator: Martin Dorn Panelists: Anne Hollowed Kirstin Holsman Alan Haynie Marysia Szymkowiak Stephanie Madsen Megan Williams	11:00am - 12:00pm LIVE (WEBEX)



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TITLE	PRESENTER			TIME
THURSDAY, JANUARY 27th, 2022				
MORNING PANEL DISCUSSION Ecological Forecasting to Inform Fisheries Management in a Rapidly Changing North Pacific Ocean	Moderator: Mark Saunders Panelists: Brian Riddell Sonia Batten Steven Bograd Stephanie Brodie Tommy Sheridan John Whissel			11:00am - 12:00pm LIVE (WEBEX)
ARCTIC PRESENTATIONS (ORAL/POSTER)				
Chasing Seals: Fjord Circulation in John Hopkins Inlet and Impacts on Harbor Seals	Lynn Kaluziński	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Process-Based Modeling of Bluff Face Thaw / Slump Erosion	Thomas Ravens	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Beneath Arctic Sea Ice: Modeling the Sub-Surface Profiles of Arctic Sea Ice and Predicting its Forms	Kelsey Frazier	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Wind Regulation of Advective Pathways and Fluxes in the Northern Bering and Southern Chukchi Sea	Seth Danielson	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Physical Evolution of Landfast Sea Ice During the Spring Melt and Connectivity to Biogeochemical Processes at Utqiagvik, AK	Marc Oggier	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Toxic Blooms of Alexandrium Catenella in the Alaskan Arctic: New Observations and Analyses	Donald Anderson	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Fate of Warm Pacific Water in the Arctic Basin	Peigen Lin	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Semidiurnal Internal Tides Observed on the Eastern Flank of Hanna Shoal in the Northeastern Chukchi Sea	Ying-Chih Fang	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Prolonged Marine Heatwaves in the Arctic: 1982–2020	Boyin Huang	Oral Presentation	Climate and Oceanography	PRE-RECORDED
A Parametric Modeling Approach for Satellite-Based Monitoring of Phytoplankton Bloom Features in the Pacific Arctic	Hisatomo Waga	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Benthic Habitat Suitability Based on Functional Traits in a Changing Arctic Marine Ecosystem	**Lauren Sutton	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Sea-Ice Diatom Sensitivity to Sublethal Crude Oil Exposure in a Brighter Arctic	Kyle Dilliplaine	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Meiofaunal- and Macrofaunal-Sized Nematode Community Composition and Functioning in Pacific Arctic Shelf Sediments	**Brittany Charrier	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Regional Differences in Phytoplankton Lipid and Fatty Acid Profiles of Surface and Sub – Chlorophyll Maximum Samples in the Eastern Canadian Arctic from Summer 2019	**Carlissa Salant	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Growth Rate Potential for Juvenile Chum Salmon in Rapidly Warming Northern Bering and Southern Chukchi Seas	Edward Farley	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED



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ARCTIC PRESENTATIONS (ORAL/POSTER)				
Annual and Interannual Variability of Polar Cod (<i>Boreogadus saida</i>) Densities in the Ne Chukchi Sea	**Silvana Gonzalez	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Climate-Driven Changes in Abundance, Distribution, and Composition of the Pelagic Fish Community in the Chukchi Sea	**Robert Levine	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Investigating the Health of Beluga Populations Utilizing Skin Gene Expression Analysis	Ebru Unal	Oral Presentation	Mammals	PRE-RECORDED
Paulatuk Beluga Drone Project: Collaborative Beluga Research in Darnley Bay	Kimberly Ovitz	Oral Presentation	Mammals	PRE-RECORDED
Habitat Preference of Eastern Beaufort Sea Belugas in Relation to Social Groups	*Alexandra Mayette	Oral Presentation	Mammals	PRE-RECORDED
Exposure and Behavioral Responses of Beluga (<i>Delphinapterus leucas</i>) and Bowhead (<i>Balaena mysticetus</i>) Whales to Ships and Ship Noise in the Arctic	Morgan Martin	Oral Presentation	Mammals	PRE-RECORDED
Determining Reproductive Success in Polar Bears Using a Novel Biomarker	**Monica Brandhuber	Oral Presentation	Mammals	PRE-RECORDED
Abundance and Distribution of Seals on Ice Influence Polar Bear Habitat Selection in the Chukchi Sea	Irina Trukhanova	Oral Presentation	Mammals	PRE-RECORDED
Skin Health, Molt, and Related Hormones in Alaskan Ice Seals	Courtney Pace	Oral Presentation	Mammals	PRE-RECORDED
Using Transcriptomics to Examine Beluga Health: A Potential for Non-Invasive Whale Sampling	**Enooyaq Sudlovenick	Oral Presentation	Mammals	PRE-RECORDED
How Many Fish Does It Take? Developmental and Seasonal Patterns of Food Intake and Body Mass in Three Arctic Seal Species	David Rosen	Oral Presentation	Mammals	PRE-RECORDED
Advances in Pacific Walrus Population Size Estimation Using Repeated Drone Surveys	Rebecca Taylor	Oral Presentation	Mammals	PRE-RECORDED
Stabilization of Lipid Membranes by Antifreeze Proteins Derived from Polar Fish	†Emily Vernon	Oral Presentation	Humans	PRE-RECORDED
“We Never Get Stuck”: A Collaborative Analysis of Change and Coastal Community Subsistence Practices in the Northern Bering and Chukchi Seas, Alaska	Henry Huntington	Oral Presentation	Humans	PRE-RECORDED
Paralytic Shellfish Toxins in Arctic Food Webs in 2019 During Anomalously Warm Ocean Conditions and Estimated Toxin Doses to Walruses and Bowheads	Kathi Lefebvre	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Drivers and Consequences of a Changing Arctic Ocean: Synthesizing Across Knowledge Systems and Disciplines	Athena Copenhaver	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
New Insights and Alarms from Half a Century of Monitoring an Ice-Dependent Arctic Seabird	George Divoky	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Borealization of Alaska's Arctic: Evidence from Two Contrasting Years in the Chukchi Sea	Franz Mueter	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Toward Forecasting Landfast Sea Ice	Andy Mahoney	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Regional Model to Simulate Ocean Acidification Across the Arctic	Remi Pages	Poster Presentation	Climate and Oceanography	PRE-RECORDED



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ARCTIC PRESENTATIONS (ORAL/POSTER)				
Acoustic Detection and Characterization of Sea Ice Near Hanna Shoal in the NE Chukchi Sea	*Savannah Sandy	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Surface Circulation and Vertical Shear in the Northeastern Chukchi and Western Beaufort Seas	Rachel Potter	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Toward an Updated Climatology of Landfast Sea Ice for the Alaska Outer Continental Shelf	*Andrew Einhorn	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Primary Production Estimates in the US Bering and Arctic Seas Through Chlorophyll-A Fluorescence Measurements on 2019 Saildrone Missions	†Samantha Rush	Poster Presentation	Climate and Oceanography	PRE-RECORDED
On Connections Between Tides, Sea Ice and Kelp in the Kitikmeot Sea, Canadian Arctic Archipelago	*Bodil Bluhm	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Arctic Ice-Ocean Circulation Modeling: Recent Improvements and Applications	Katherine Hedstrom	Poster Presentation	Climate and Oceanography	PRE-RECORDED
AHAB: Working Towards a Comprehensive Monitoring, Research, and Outreach Program for Harmful Algal Blooms in Alaska	Thomas Farrugia	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Short-Term Fate of Phytodetritus in Chukchi Sea Sediments Revealed Through Stable-Isotope Labeling Experiments	Sarah Mincks	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Quantifying Microbially Mediated Carbon and Nitrogen Cycling in Arctic Lagoons	**Brian Kim	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Spatial Drivers of Lagoon Microbial Community Structure Across Seasons on the Beaufort Sea Coast	*Natasha Griffin	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Spatial and Temporal Patterns of <i>Alexandrium catenella</i> Cyst Suspension in the Pacific Arctic Region	**Evangeline Fachon	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Seaward Migration and Overwintering Pattern Analysis of Dolly Varden in Northwestern Alaska Using Otolith Microchemistry	*Joseph Spencer	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Fourhorn Sculpin Bycatch in Alaskan Arctic Subsistence Fishery	Caitlin Forster	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Exploration of Machine Learning as a Tool for Pacific Sleeper Shark Population Assessment	Keith Fuller	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Life History Parameters for Spring-Caught Arctic Fishes: Length, Weight, and Age of Demersal Fish Species	Caitlin Forster	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Resource Use by Arctic Fishes Across Beaufort Sea Coastal Lagoons	**Sydney Wilkinson	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Harnessing the Power of Edna As a Real-Time Assessment Tool of Nearshore Arctic Marine Communities	Jessica Glass	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
An Arctic Seabird Sentinel Reveals Causations and Consequences of Climate-Driven Change in the Ichthyofauna of the Nearshore Beaufort Sea	George Divoky	Poster Presentation	Seabirds	PRE-RECORDED
Baseline Health Assessment of Bycaught Loons: Preliminary Findings	**Raphaela Stimmelmayer	Poster Presentation	Seabirds	PRE-RECORDED



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ARCTIC PRESENTATIONS (ORAL/POSTER)				
External Signs of Bycatch by Gillnet in Loons: A Visual Guide	**Raphaela Stimmelmayer	Poster Presentation	Seabirds	PRE-RECORDED
Physiological and Energetic Measurements of Bearded Seals (<i>Erignathus barbatus</i>) During Early Development	Madilyn Pardini	Poster Presentation	Mammals	PRE-RECORDED
Resource Selection by Ringed Seals (<i>Pusa hispida</i>) in the Beaufort and Chukchi Seas	**Rowenna Gryba	Poster Presentation	Mammals	PRE-RECORDED
Pacific Walrus Mortality in Northern Chukotka, 2017-2019	Natalia Kryukova	Poster Presentation	Mammals	PRE-RECORDED
Assessing the Behavioral Response of Arctic Seals to Survey Aircraft	Skyla Walcott	Poster Presentation	Mammals	PRE-RECORDED
Walrus and Bearded Seal Detections at the Chukchi Ecosystem Observatory 2015-2020	Kate Stafford	Poster Presentation	Mammals	PRE-RECORDED
Surveillance for Cyanobacteria Algal Toxins in Liver Tissue of Ice-Associated Seals, Alaska	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Metabolic Costs of Stationary Diving and Submerged Swimming in Bearded Seals (<i>Erignathus barbatus</i>)	Nicole Thometz	Poster Presentation	Mammals	PRE-RECORDED
Kidney Worm (<i>Crassicauda giliakiana</i>) Infection in Subsistence Harvested Beluga Whales: An Emerging Issue?	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Evaluation of Satellite Imagery for Monitoring a Walrus Terrestrial Haulout: A Step Towards Range-Wide Monitoring	Anthony Fischbach	Poster Presentation	Mammals	PRE-RECORDED
Survival and Abundance of Polar Bears in Alaska's Beaufort Sea, 2001-2015	Jeffrey Bromaghin	Poster Presentation	Mammals	PRE-RECORDED
Lack of Pigmentation in a Found Dead Neonate Beluga Whale (<i>Delphinapterus leucas</i>)	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Shortened Jaw in a Subadult Female Bowhead Whale (<i>Balaena mysticetus</i>): A Case Report	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Cataracts in Free Ranging Pacific Walrus and Polar Bears, North Slope, Alaska	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Paws Up for Polar Bears: A Climate Change Curriculum for Kids	*Emily Miller	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Marine Mammal Distribution and Habitat in the Eastern Chukchi Sea During 2015 - 2020 Observed from a Slocum Ocean Glider	Hank Statscewich	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Remotely Detecting Petrogenic Dissolved Organic Matter in the Arctic by Expanding Optical Sensors	**Katherine Humpal	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Bio-Physical Drivers of Bowhead Whale Distribution on the Alaskan Beaufort Shelf During a Period of Rapid Environmental Change	Stephen Okkonen	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Face-It: The Future of Arctic Coastal Ecosystems – Identifying Transitions in Fjord Systems and Adjacent Coastal Areas	Kai Bischof	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED



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BERING SEA PRESENTATIONS (ORAL/ POSTER)				
Fine-Scale Heat Balances, Vertical Exchange, and Net Community Production on the Southeast Bering Sea Shelf	Noel Pelland	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Local-Scale Variability in Freeze-Break Cycles and Polynya Regimes Off of Coastal Bering-Chukchi Communities	*Kitrea Pacifica Takata-Glushkoff	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Seasonal Evolution of the Cold Pool in the Bering Sea Derived from Pop-Up Floats and Traditional Instruments	Phyllis Stabeno	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Modeling Ocean Acidification in the Bering Sea to Support Long-Term Planning and Management of the Largest U.S. Fishery	Darren Pilcher	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Drivers of Multidecadal Oceanographic Variability Over the Bering Sea Inner Shelf	Emily Lemagie	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Will Bering Sea Minimum Sea-Ice Winters Continue?	James Overland	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Coastal Surveys in Alaska and Their Application to Salmon Run-Size and Harvest Forecasts	James Murphy	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Impacts of Warming Temperatures on Eastern Bering Sea Walleye Pollock Growth and Local Abundance	Krista Oke	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
The Ecological Drivers and Fitness Consequences of Dispersal in Sockeye Salmon	Samuel May	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Analysis of Pacific Cod Genome Using Pooled Sequencing Reveals Genomic Regions of Elevated Differentiation Among the Eastern Bering Sea and Aleutian Islands	Carolyn Tarpey	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Predicting Pacific Cod Spawning Habitat in a Changing Climate	Jennifer Bigman	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
A Novel Method to Reduce Bycatch Using Real-Time Video and Active Selection	Craig Rose	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Characterizing Dominant Patterns of Spatiotemporal Variation for a Transboundary Groundfish Assemblage	Lukas DeFilippo	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Biogeography and Behavior: Flexibility of Bering Sea Groundfishes' Spawning Behavior and Subsequent Impacts on Biogeography of Early Life Stages	*Laura Vary	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Effects of Future Climate Variability on Bering Sea Groundfish Spawning Distributions	**Rebecca Howard	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Potential Stock Assessment Application of Fine-Scale Movement and Habitat Preferences Estimated Using Tags, Surveys, and Fishery CPUE for Bering Sea Pacific Cod	James Thorson	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Coastal Migration Characteristics and Stock Composition of Coho Salmon in Eastern Norton Sound Fisheries	*Luke Henslee	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Scent Feathers: A Shared Derived Trait in the Genus Aethia?	Hector Douglas	Oral Presentation	Seabirds	PRE-RECORDED
Developing a Scalable Statewide Aleutian Tern Colony Census Protocol: 2021 Results and Next Steps	Robb Kaler	Oral Presentation	Seabirds	PRE-RECORDED



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BERING SEA PRESENTATIONS (ORAL/ POSTER)				
Complex Shifts in Population Dynamics of Beringian Seabirds Are Linked to Long- and Short-Term Climate Modes	Douglas Causey	Oral Presentation	Seabirds	PRE-RECORDED
Maternal Foraging Behavior and Habitat Use Affects Mercury Exposure of Endangered Steller Sea Lions	Brian Fadely	Oral Presentation	Mammals	PRE-RECORDED
To Stay Or to Go? Modeling the Prey Base of North Pacific Right Whales on the Eastern Bering Shelf to Gain Insight Into Possible Shifting Distributions of Feeding Whales	**Dana Wright	Oral Presentation	Mammals	PRE-RECORDED
Persistent Organic Pollutants in Bristol Bay Beluga Whales	Jennifer Hoguet	Oral Presentation	Mammals	PRE-RECORDED
Underwater Vocal Behavior in Male Spotted Seals (<i>Phoca largha</i>)	Jillian Sills	Oral Presentation	Mammals	PRE-RECORDED
Modeling the Effects of Walleye Pollock Availability on Northern Fur Seal Foraging Behavior and Reproductive Success	Elizabeth McHuron	Oral Presentation	Mammals	PRE-RECORDED
Characterizing Prey Size-Dependent Foraging Behavior of Northern Fur Seals Using Animal-Borne Video	Carey Kuhn	Oral Presentation	Mammals	PRE-RECORDED
Assessing Risk to the Bering and Chukchi Coasts from Drifting Vessels and Oil Spills	Jesse Lopez	Oral Presentation	Humans	PRE-RECORDED
A New, Publicly Available Marine Vessel Traffic Data Set for the North Pacific and Southern Arctic Oceans, 2015-2020	**Kelly Kapsar	Oral Presentation	Humans	PRE-RECORDED
National Exploration and Characterization Priorities in Alaskan US EEZ Waters	Caitlin Adams	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
A Study Behind the Quantity and Diversity of Trash Related Items Encountered in the North Pacific Observer Program	Alexandra Dowlin	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Synthesizing Community Survey and Commercial Fishery Data in the Pribilof Islands Marine Ecosystem, Alaska	Megan Peterson Williams	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Identifying Pathways of Methylmercury Through Marine Food Webs Using Compound-Specific Stable Isotope Analyses of Amino Acids	*Michelle Trifari	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
First-Year Survival of Northern Fur Seals (<i>Callorhinus ursinus</i>) Can Be Explained by Pollock (<i>Gadus chalcogrammus</i>) Catches in the Eastern Bering Sea	Jeffrey Short	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Ocean Acidification Observations in Alaska's Four Large Marine Ecosystems	Natalie Monacci	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Long-Term Observations Under the Western Bering Sea Kamchatka Current Eddies	Konstantin Rogachev	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Quantifying Juvenile Chinook Distribution and Abundance Under Different Climate Regimes	*Lilian Hart	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Mating Dynamics of Eastern Bering Sea Snow Crab	Laura Slater	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED



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BERING SEA PRESENTATIONS (ORAL/ POSTER)				
Understanding Pacific Halibut Spatial Dynamics in the Northern Bering Sea	**Austin Flanigan	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Preliminary Results of Northern Fur Seal Pup Counts at Bering Island Rookeries, Commander Islands, 2021, Using Unmanned Aircraft	Ivan Usatov	Poster Presentation	Mammals	PRE-RECORDED
Microplastics in Spotted Seal Stomach Contents Collected from the Chukchi and Bering Seas Between 2012-2020	*Alexandria Sletten	Poster Presentation	Mammals	PRE-RECORDED
Increase in Abundance of Steller Sea Lions on Yugo-Vostochny Rookery, Medny Island, Russia: 2021 Survey Results	Vladimir Burkanov	Poster Presentation	Mammals	PRE-RECORDED
First Telemetry Studies of Harbor Seals (<i>Phoca vitulina stejnegeri</i>) and Spotted Seals (<i>Phoca largha</i>) on the Commander Islands, Russia	Olga Belonovich	Poster Presentation	Mammals	PRE-RECORDED
Variability in Total Mercury Concentration of Steller Sea Lion (<i>Eumetopias jubatus</i>) Pup Long Bones	*Mary Keenan	Poster Presentation	Mammals	PRE-RECORDED
An Observation of a First Steller Sea Lion Pup Birth, Abandonment, and Mortality at Yugo-Vostochny Rookery, Medny, Commander Islands, 2021	Natalia Laskina	Poster Presentation	Mammals	PRE-RECORDED
Trophic Impact of Ice Seals in the Bering Sea Using Spotted Seal Diet (Stomach Contents) During 2000–2019	Justin Crawford	Poster Presentation	Mammals	PRE-RECORDED
Application of MASK-RCNN Models to Identify and Count Steller Sea Lions in Time-Lapse Camera Images from Terrestrial Sites in the Commander Islands and Eastern Kamchatka	Alexey Altukhov	Poster Presentation	Mammals	PRE-RECORDED
A Comparison of Perceptions About the Use of Two Different Teaching Pedagogies: Video Conferencing Platform (Zoom) and Experiential Hands-On Approaches to Teaching Marine Science in Bethel, AK	**Courtney Pegus	Poster Presentation	Humans	PRE-RECORDED
Sanak Island Alaska: A Key Study Site to Explore Eastern Aleutian Mercury Dynamics	Julie Avery	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
A Data Tool for Planning, Prevention, and Response to International Maritime Incidents in the Bering Strait	Jill Prewitt	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED



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From Top to Bottom: Ocean Climatology in Kachemak Bay and Cook Inlet Alaska	Kris Holderied	Oral Presentation	Climate and Oceanography	PRE-RECORDED
The Role of Zooplankton in Determining Carbon Export in the Gulf of Alaska	**Stephanie O'Daly	Oral Presentation	Climate and Oceanography	PRE-RECORDED
The Chugach Regional Ocean Monitoring Program: Comprehensive Biotoxin, Phytoplankton, and Water Chemistry Monitoring Throughout Southcentral Alaska	Maile Branson	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Assessing Annual Nearshore Carbonate Chemistry Trends in an Alaskan Coastal Estuary	*James Currie	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Plans for Exploring the Aleutian Island Chain Using Autonomous Surface Vehicle (ASV) Saildrone Surveyor in 2022	Aurora Elmore	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Modulation of Ocean Acidification by Decadal Climate Variability in the Gulf of Alaska	Claudine Hauri	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Timing of the Phytoplankton Spring Bloom in Kachemak Bay	Martin Renner	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Habitat Formation by Drifting and Beach-Cast Macroalgae in the Northern Gulf of Alaska	**Brian Ulaski	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Distribution of Microbial Genes Related to Iron Metabolism in a Glacial Influenced River and Estuary Environment	*Megan Brauner	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Molecular Methods to Characterize Abundance and Distribution of Alexandrium Cysts for HAB Forecasting: Year 2 Update	Steve Kibler	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Investigating the Impact of Marine Heatwaves on Phytoplankton Community Composition in the Gulf of Alaska	*Jacob Cohen	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Lipid Accumulation in Neocalanus Copepods in the Northern Gulf of Alaska (NGA)	*Delaney Coleman	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
The Effects of Ocean Acidification and Ocean Warming on the Behavior and Physiology of an Intertidal Grazer and a Key Sea Star Predator	*Shelby Bacus	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Comparison of Existing and Spatio-Temporal Methods to Apportion Catch Limits for Subregional Management of Groundfish in the Gulf of Alaska	*Kelly Mistry	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Catching the Heatwave: Juvenile Pacific Cod Growth, Diet Composition, and Trophic Shifts in Response to Anomalous Warming in Gulf of Alaska Nursery Habitats	**Hillary Thalmann	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Pacific Cod in the Anthropocene: An Early Life History Perspective Under Changing Thermal Habitats	Benjamin Laurel	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Warmer, Earlier, Faster: Cumulative Effects of Gulf of Alaska Heatwaves on the Early Life History of Pacific Cod	L. Zoe Almeida	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED



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TITLE	PRESENTER			TIME
GULF OF ALASKA PRESENTATIONS (ORAL/ POSTER)				
The Role of Chromosomal Inversions in the Ecotypic Differentiation of Pacific Herring Demonstrated by Whole Genome Sequencing Data	Eleni Petrou	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Changes in Spawn Timing and Availability of Walleye Pollock to Assessment Surveys in the Gulf of Alaska	Lauren Rogers	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Heritability Estimation Using Large-Scale Pedigree Reconstruction in Pink Salmon Spawning in the Wild	Kristen Gruenthal	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Paralytic Shellfish Toxins in Forage and Predatory Fishes of Southcentral and Southwest Alaska: NPRB 1801 Year 3 Update	Steve Kibler	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Microbiota Impacts on Host Response to Crude Oil Exposure in Threespine Stickleback	**Kelly Ireland	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Detecting Acoustic Tagged Pacific Herring (<i>Clupea pallasii</i>) Using an Autonomous Underwater Glider Carrying an Integrated Acoustic Receiver in Prince William Sound, AK	Alysha Cypher	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Fishery Management Implications of Declining Mean Age and Size of Chinook Salmon	Jan Ohlberger	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Evaluating Discard Mortality Rates and Developing Best Management Practices in a Pacific Halibut Charter Recreational Fishery	Claude Dykstra	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Generation of Genomic Resources for the Pacific Halibut (<i>Hippoglossus stenolepis</i>) to Assist in Population Biology Studies Informing Fisheries Management	Josep Planas	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Assessing the Current Trends of East Cook Inlet Razor Clams Through a Comparison With West Cook Inlet Razor Clams	Mike Booz	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Black and Yelloweye Rockfish Surveys and the ADF&G Statewide Rockfish Initiative	Janet Rumble	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Aleutian Tern <i>Onychoprion Aleuticus</i> Abundance Estimates at Four Globally Significant Colonies	Heather Renner	Oral Presentation	Seabirds	PRE-RECORDED
Spatial and Temporal Variation in Nearshore Marine Bird Communities in the Northern Gulf of Alaska	Brian Robinson	Oral Presentation	Seabirds	PRE-RECORDED
Two Decades of Spring Seabird Observations Along the Seward Line, Gulf of Alaska	Daniel Cushing	Oral Presentation	Seabirds	PRE-RECORDED
Comparison of Mark-Recapture and Distance Sampling As Estimators of North Pacific Humpback Whale (<i>Megaptera novaeangliae</i>) Abundance Throughout Alaska's Inside Passage As Means to Inform Distinct Population Segment Policy and Management	*Rhianna Thurber	Oral Presentation	Mammals	PRE-RECORDED
Using Genetic Prey Barcodes to Uncover the Diet of Alaska Resident Killer Whales from Fecal Samples	Amy Van Cise	Oral Presentation	Mammals	PRE-RECORDED
Passive Acoustic Monitoring of Beluga Whales in Two Cook Inlet Rivers	*Sonia Kumar	Oral Presentation	Mammals	PRE-RECORDED



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GULF OF ALASKA PRESENTATIONS (ORAL/ POSTER)				
Revealing Endangered Cook Inlet Beluga Foraging Patterns Through EDNA	Zachary Gold	Oral Presentation	Mammals	PRE-RECORDED
The Decline of Humpback Whales in Prince William Sound, Alaska Following the 2014–2016 Northeast Pacific Marine Heatwave	John Moran	Oral Presentation	Mammals	PRE-RECORDED
Listening for Killer Whales: Year-Round Distribution and Residency Patterns of Orcinus Orca in the Gulf of Alaska	**Hannah Myers	Oral Presentation	Mammals	PRE-RECORDED
High-Frequency Auditory Masking of Beluga Whales by Commercial Vessels in Cook Inlet, AK	Justin Eickmeier	Oral Presentation	Mammals	PRE-RECORDED
Aerial Sonogram: Pairing Endocrine Markers With Morphometrics to Detect Reproductive State in Humpback Whales (<i>Megaptera novaeangliae</i>)	Kelly Cates	Oral Presentation	Mammals	PRE-RECORDED
An Integrated Model to Examine Population Viability and Factors Limiting the Recovery of Endangered Cook Inlet Beluga Whales	**Amanda Warlick	Oral Presentation	Mammals	PRE-RECORDED
A Systematic Review Demonstrates How Surrogate Populations Help Inform Conservation and Management of an Endangered Species – the Case of Cook Inlet, Alaska Belugas	Stephanie Norman	Oral Presentation	Mammals	PRE-RECORDED
The Ups and Downs of Humpback Whale Motherhood: Quantifying the Cost of Maternal Investment and Calf Growth on Their Hawaiian Breeding Grounds and Southeast Alaskan Foraging Grounds	**Martin van Aswegen	Oral Presentation	Mammals	PRE-RECORDED
Industry-Perceived Risks in Commercial Fisheries in the Pacific Northwest and New England	**Sarah Gibbs	Oral Presentation	Humans	PRE-RECORDED
Assessment of Carbon and Nitrogen Removal by Kelp Farms in Alaska	Schery Umanzor	Oral Presentation	Humans	PRE-RECORDED
Overview of Alaska Aquaculture Research at NOAA Fisheries	Jordan Hollarsmith	Oral Presentation	Humans	PRE-RECORDED
Unveiling Deepwater Alaska: NOAA Ocean Exploration Led Community Driven Exploration in 2022 and 2023	Kasey Cantwell	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Using a Climate Attribution Statistic to Inform Judgments About Changing Fisheries Sustainability	Mike Litzow	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
A Spatial Bibliography for the Deep Waters of the Alaska Exclusive Economic Zone	Adrienne Copeland	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Impact of Marine Heatwaves on Pacific Herring and Prince William Sound Marine Ecosystem	Beatriz Dias	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Long-Term Monitoring Documents Variation in Responses of Nearshore Reliant Species During the Pacific Marine Heatwave in the Gulf of Alaska	Heather Coletti	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Lassitos: Toward Unmanned Airborne Electromagnetic Sea Ice Thickness Measurements	Achille Capelli	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Inorganic Carbon Dynamics at the Gulf of Alaska Ecosystem Observatory	**Addie Norgaard	Poster Presentation	Climate and Oceanography	PRE-RECORDED



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GULF OF ALASKA PRESENTATIONS (ORAL/ POSTER)				
Perspectives on Particles Cycling in the Gulf of Alaska: How Community Composition and Seasonal Fluxes of Organic Matter Impact Regional Biogeochemistry	Thomas Kelly	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Physical Oceanographic Assessment of Currents Near Tuxedni Bay	Tyler Hennon	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Improved Freshwater Runoff Estimates for Alaska - A Project Update	David Hill	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Preliminary Regression Model Development for Paralytic Shellfish Toxins Around the Kodiak Archipelago	Timothy Wynne	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Fate of the Copper River Plume	Isaac Reister	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Exploring Zooplankton Community Shifts in the Northern Gulf of Alaska Using a New Analysis Approach to Maintain Taxonomic and Spatiotemporal Complexity	*Lauren Block	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Monitoring Plankton With Cameras? Intercalibration of <i>In-situ</i> Imagery and Net Based Estimates of Plankton Concentrations and Observations from a Multiyear Time Series of High Frequency Observations in Prince William Sound	Robert Campbell	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Two-Decades of Observations on Pelagic Tunicates and Pelagic Snails in the Northern Gulf of Alaska (NGA)	*Emily Stidham	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Cryptophyte Distribution and Mixotrophy in the Northern Gulf of Alaska	*Megan O'Hara	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Pacific Cod Individual Based Model Enhancement and Validation- Project 1806	Katharine Miller	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Aggregation Characteristics of Near-Bottom Rockfishes and Walleye Pollock (<i>Gadus chalcogrammus</i>) in the Gulf of Alaska Can We Predict Species?	Denise McKelvey	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Inter-Specific Variation in Juvenile Salmon Stable Isotopes Over 10 Years in Southeast Alaska	Mariela Brooks	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Winter Condition and Trophic Status of Pacific Salmon in the Gulf of Alaska	Charlie Waters	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Characterizing the Impacts of Ocean Acidification and Food Availability on the Growth and Development of Juvenile Pink Salmon (<i>Oncorhynchus gorbuscha</i>)	**Marina Washburn	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Variability in Adult Size, Energy Use, and Prevalence of Pathogens in Copper River Sockeye Salmon During 2016 and 2019-2021	Peter Rand	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Evaluation of Copper Toxicity to Salmonids Exposed in Low-Hardness/Low-Dissolved Organic Carbon Water	*Drew Porter	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Stable Isotope Trophic Discrimination Factors in Pacific Cod: Effects of Temperature and Diet Quality from a Laboratory Feeding Trial	Matthew Rogers	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED



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GULF OF ALASKA PRESENTATIONS (ORAL & POSTER)				
Through the Eyes of a Salmon: Stable Isotope Life Histories of Chinook Salmon from the Eye Lens	Todd Miller	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Determining Optimal Spawning Habitat for Forage Fishes in the Intertidal Range of East Cook Inlet Beaches	†Renee Veldman	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Effects of Density and Summer Ocean Temperatures on Juvenile Pacific Cod Condition in the Western Gulf of Alaska	Alisa Abookire	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Advancing the Data-Limited Stock Assessments for Pacific Sleeper Shark (<i>Somniosus pacificus</i>) and Pacific Spiny Dogfish (<i>Squalus suckleyi</i>)	**Garrett Dunne	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Habitats Occupied by Chinook Salmon in Gulf of Alaska U.S. Navy Activities Areas	Michael Courtney	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Food Web Ecology of Nearshore Fishes Along a Gradient of Glacially Influenced Watersheds	*Lindsey Stadler	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Assessing Status and Trends of <i>Exxon Valdez</i> Oil Spill Injured Seabirds in the Kenai Peninsula Coast and Kachemak Bay	Elizabeth Labunski	Poster Presentation	Seabirds	PRE-RECORDED
Bald Eagles Contribute to Common Murre Breeding Failures in Kachemak Bay, Alaska, Following Marine Heatwave Disruption	Caitlin Marsteller	Poster Presentation	Seabirds	PRE-RECORDED
Taking Flight: Testing Uncrewed Aircraft Systems for Surveys of Seabird Abundance at Breeding Colonies	Amy Bishop	Poster Presentation	Seabirds	PRE-RECORDED
Colony Failure Or Colony Collapse? Absence Suggests Functional Loss of Crested Auklets at Big Koniuji I., Alaska	Hector Douglas	Poster Presentation	Seabirds	PRE-RECORDED
A 4000-Year Retrospective Study of Seabird Diets; Insights from Archaeological Collections on Sanak Island, Alaska	Miranda LaZar	Poster Presentation	Seabirds	PRE-RECORDED
Does Ice Extent in Lower Cook Inlet Constrain Sea Otter Population Range Expansion?	Nicole LaRoche	Poster Presentation	Mammals	PRE-RECORDED
Diel Patterns in Acoustic Presence and Vocal Behavior of Gulf of Alaska Transient Killer Whales	†Amy Whitney	Poster Presentation	Mammals	PRE-RECORDED
Assessing Trend and Status in Sea Otter Populations Through Boat-Based and Aerial Surveys	George Esslinger	Poster Presentation	Mammals	PRE-RECORDED
The Menu Has Changed: Sea Otter Diets Shift With Changes in Intertidal Prey Abundance in the Northern Gulf of Alaska	Sarah Traiger	Poster Presentation	Mammals	PRE-RECORDED
Start Late, Go Slow, Die Young? Linking Natural History to Vital Rate Estimation in an Endangered Whale: Could a Shortened Reproductive Lifespan Be Hindering Recovery in Cook Inlet Belugas?	Tamara McGuire	Poster Presentation	Mammals	PRE-RECORDED
Alaska Region 2021 Update: Large Whale Entanglement Response Program	Sadie Wright	Poster Presentation	Mammals	PRE-RECORDED
Cetacean Distribution in the Gulf of Alaska: Preliminary Results from the 2021 Pacmapps Survey	Jessica Crance	Poster Presentation	Mammals	PRE-RECORDED



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A Little White Whale on the Go: Modelling the Foraging and Movement Decisions of Cook Inlet Belugas in a Disturbed Environment	Kimberly Goetz	Poster Presentation	Mammals	PRE-RECORDED
Subtidal Habitat Mapping for Current and Predictive Sea Otter Habitat Associations	*Elizabeth Hasan	Poster Presentation	Mammals	PRE-RECORDED
Kidney Function and SDMA Values in Alaskan Marine Mammals	Ashley Kirby	Poster Presentation	Mammals	PRE-RECORDED
Girls on Water: Successes and Areas for Growth for a Tuition-Free Marine-Ecology Focused Backcountry Science and Art Program in Kachemak Bay	**Stephanie O'Daly	Poster Presentation	Humans	PRE-RECORDED
Mobile Kelp Mariculture in Prince William Sound	Annette Jarosz	Poster Presentation	Humans	PRE-RECORDED
Monitoring Phytoplankton Dynamics for Safe Shellfish Harvest in Prince William Sound and Lower Cook Inlet	Annette Jarosz	Poster Presentation	Humans	PRE-RECORDED
Building Community Capacity in Kelp Mariculture Site Suitability Assessments	Schery Umanzor	Poster Presentation	Humans	PRE-RECORDED
Supporting Undergraduate Student Success Through Place-Based Research Opportunities in Alaska	Alison Gardell	Poster Presentation	Humans	PRE-RECORDED
Changes in Marine Predator and Prey Populations in the Northern Gulf of Alaska: Gulf Watch Alaska Pelagic Update 2021	Mayumi Arimitsu	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Regional Differences in the Use of Macroalgal and Phytoplankton-Based Trophic Pathways in Nearshore Consumers Across the Northern Gulf of Alaska	*Katherine Corliss	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Monitoring and Recovery of Native Shellfish Using Clam Gardening in Southcentral Alaska	Maile Branson	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED