



2021 VIRTUAL ALASKA MARINE SCIENCE SYMPOSIUM GULF OF ALASKA DAY

JANUARY 26TH, 2021
AGENDA AT-A-GLANCE

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

TITLE	PRESENTER	TYPE	SECTION	TIME
A Legacy of Leadership that Paved the Way for Gulf of Alaska Ecosystem Research: Honoring the "Petes"	Molly McCammon, Phil Mundy, Robert Spies, Jeep Rice, Jim Bodkin	KEYNOTE		LIVE 8:30 - 9:00 AM
Changes in Nearshore Ecosystems and Relevance to Coastal Communities in the Gulf of Alaska		PANEL DISCUSSION		LIVE 10:30 AM - 12:00 PM
Multiple Stressors in the Marine Ecosystem: What Do We Know So Far, and How Can We Use This Information in Management?		PANEL DISCUSSION		LIVE 1:00 - 2:30 PM
**Examining the Response of the Alaskan Bidarki (<i>K. Tunicata</i>) to Elevated pCO ₂ and Temperature Conditions	Marina Washburn	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Freshwater Inputs Change Ocean Acidification Impacts on Nearshore Biogeochemistry in the Gulf of Alaska	Claudine Hauri	Oral Presentation	Climate and Oceanography	PRE-RECORDED
*Ocean Change Along an Alaskan Shoreline: Examining the Relationship Between the Pacific Plate Limpet (<i>Lottia Scutum</i>) and the Mottled Star (<i>Evasterias Troschelii</i>)	Shelby Bacus	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
The Influence of Marine Mesoscale Eddies on Plankton Community Structure in the Gulf of Alaska	Caitlin Kroeger	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Epidemiology of Ichthyophoniasis in Pacific Herring in Sitka Sound and Prince William Sound From 2007-2018	Maya Groner	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
**Using Antibody Data to Inform Viral Infection History and Improve Estimates of Survival in Fisheries Stock Assessment Models	John Trochta	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
*The Metabolic Rate of Pacific Sleeper Sharks, <i>Somniosus Pacificus</i> , in Alaska	Taylor Smith	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
*Too Hot to Handle: Effects of Thermal Variability on Juvenile Pacific Cod Foraging and Growth in Gulf of Alaska Nursery Habitats	Hillary Thalmann	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
**Development of Pacific Herring Roe Under Projected Ocean Acidification and Warming	Lauren Bell	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Reduced Relative Fitness in Stray Hatchery-Origin Pink Salmon from Large-Scale, Segregated Hatcheries in Prince William Sound, Alaska	Kyle Shedd	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
What Affects Spawning Phenology of Herring (<i>Clupea Pallasii</i>) in Prince William Sound?	Beatriz Dias	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
*Population-Level Effects of Crude Oil on Juvenile Threespine Stickleback Growth and Development	Kelly Ireland	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
**Recruitment Variation Disrupts the Stability of Alternative Life Histories in An Exploited Salmon Population	Lukas DeFilippo	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
*Environmental Drivers of Nearshore Fish Community Composition in Glacially-Influenced Gulf of Alaska Estuaries	Nina Lundstrom	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Retrospective Analysis of Giant Pacific Octopus (<i>Enteroctopus Dofleini</i>) Life History at an Aquarium	Ashley Kirby	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
Forecasting Fisheries Monitoring Efficiency and Effectiveness in Alaska	Craig Faunce	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Sitka Herring, Past and Present: Using Ancient DNA and Whole Genome Sequencing to Examine Genetic Diversity Over Time	Eleni Petrou	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Oceanic Movement and Behavior of Steelhead, Elucidated With Pop-Up Satellite Tags	Michael Courtney	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
*The Diet Composition of Aleutian Tern Chicks in the Kodiak Archipelago, Alaska	Jill Tengeres	Oral Presentation	Seabirds	PRE-RECORDED
†The Use of Thermal Imaging for the Censusing of Colonial Seabirds in the Gulf of Alaska: Implications for Management and Conservation	Emmylou Kidder	Oral Presentation	Seabirds	PRE-RECORDED
Marine Bird Response to Forage Fish During Winter in Bays of Prince William Sound, Alaska	Anne Schaefer	Oral Presentation	Seabirds	PRE-RECORDED
Combining the Old and the New to Take the Long View: Using Contemporary Models to Estimate Long-Term Trends and Abundance of Sentinel Marine Species in Glacier Bay National Park, Alaska	Jamie Womble	Oral Presentation	Mammals	PRE-RECORDED
**Modeling Habitat Suitability Based on Acoustic Monitoring of Male Sperm Whales and Social Units in the Gulf of Alaska and Aleutian Islands	Natalie Posdaljian	Oral Presentation	Mammals	PRE-RECORDED
Recovering Alaska's Imperiled Marine Mammals Under the U.S. Endangered Species Act	Kristin Carden	Oral Presentation	Mammals	PRE-RECORDED
Skin Microbiome of Beluga Whales: Spatial, Temporal, and Health-Related Dynamics	Amy Van Cise	Oral Presentation	Mammals	PRE-RECORDED
Estimating the Energy Expenditure of Harbor Seals in Ice and Terrestrial Habitats	Linnea Pearson	Oral Presentation	Mammals	PRE-RECORDED
*Health Metrics and Immune Function in Non-Stranded Steller Sea Lions (<i>Eumetopias jubatus</i>)	Samantha Rae	Oral Presentation	Mammals	PRE-RECORDED
Cetacean Occurrence in the Gulf of Alaska from Long-Term Passive Acoustic Monitoring	Ally Rice	Oral Presentation	Mammals	PRE-RECORDED
Historical Ecology of a Recovering Keystone Predator: Insights into Ancient Sea Otter Diet and Habitat Use in Southeast Alaska Via Bulk Tissue and Compound-Specific Isotope Analysis	Emma Elliot Smith	Oral Presentation	Mammals	PRE-RECORDED
*Evidence of Microplastics in Top Predators: Comparing Fecal Samples from Two Resident Killer Whale Populations	Jenna Harlacher	Oral Presentation	Mammals	PRE-RECORDED
Using Frequent Whale Surfacing Events to Estimate the Rate of Rare Ship-Whale Collisions	Noble Hendrix	Oral Presentation	Mammals	PRE-RECORDED
Humpback Whales and Tourism in Juneau, AK: Establishing Baseline Measurements during the Covid-19 Pandemic	Heidi Pearson	Oral Presentation	Mammals	PRE-RECORDED
Data from the Dead Support Management of the Living: Population Genetic Structure of Alaska Harbor Porpoise From Carcasses and eDNA Samples	Kim Parsons	Oral Presentation	Mammals	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
Leveraging Multiple Years of Mother-Offspring Association to Estimate Cook Inlet Beluga Fecundity and Survival Using A Novel Extension to the Multievent Mark-Recapture Model	Gina Himes Boor	Oral Presentation	Mammals	PRE-RECORDED
**I Like to Move It, Move It: Insight Into the Migration of North Pacific Right Whales Revealed By Stable Isotope Analysis	Dana Wright	Oral Presentation	Mammals	PRE-RECORDED
**Regional Blubber Fatty Acid Signature Analysis of Harbor Seals in Alaska From 1997-2010	Victoria Neises	Oral Presentation	Mammals	PRE-RECORDED
Anthropogenic Scarring in Long-Term Photo-Identification Records of Cook Inlet Beluga Whales, <i>Delphinapterus leucas</i>	Tamara McGuire	Oral Presentation	Mammals	PRE-RECORDED
Conceptualizing and Reducing Ship-Whale Collisions: New Ideas and Collaborative Approaches	Scott Gende	Oral Presentation	Humans	PRE-RECORDED
Big Catch, Undecided Risks: Perceptions of Risk, Reward, and Trade-Offs in Alaska's Alaskan Salmon Enhancement Program	Hannah Harrison	Oral Presentation	Humans	PRE-RECORDED
Southeast Alaskan Kelp Forests: Inferences of Process From Large-Scale Patterns of Variation in Space and Time	Torrey Gorra	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
From Suspended Animation to Fully Active: Post-Diapause Transcriptomic Restart in a High Latitude Zooplankter	Vittoria Roncalli	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
How the Mighty Have Fallen: Indirect Effects of Sea Star Wasting Syndrome on Mussel Abundance in the Northern Gulf of Alaska	Sarah Traiger	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
*Influence of Glacial Melt on Estuarine Intertidal Community Structure and Their Environmental Drivers	Mary McCabe	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
†Ocean Water Samples and Blue Mussel (<i>Mytilus edulis</i> ; Yaak) Samples Collected During the Summer of 2020 Strengthen Data Sovereignty for the Tlingit Community of Kake, Alaska	Talia Davis	Poster Presentation	Climate and Oceanography	PRE-RECORDED
UAF Ocean Acidification Research Center: Increasing Monitoring Capacity For Alaska	Natalie Monacci	Poster Presentation	Climate and Oceanography	PRE-RECORDED
*Characterizing Groundwater Fluxes and Water Residence Times Using Radioisotope Tracers: Preliminary Findings From Kachemak Bay, Southeast Alaska	Josianne Haag	Poster Presentation	Climate and Oceanography	PRE-RECORDED
**Freshwater in the Northern Gulf of Alaska Marine Environment	Isaac Reister	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Knowledge Co-Production and Climate in Southeast Alaska	Elizabeth Figus	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Speed Dating Through Meroplankton? Linking Ocean and Nearshore Ecosystems in Kachemak Bay Alaska	Kris Holderied	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Is It Spring Yet? Seasonal Clusters of Phyto- and Zooplankton Communities in Kachemak Bay and Lower Cook Inlet	Martin Renner	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
†Phytoplankton Diversity and Abundance in Kachemak Bay Across a Glacial Gradient	Emily Williamson	Poster Presentation	Lower Trophic Levels	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
Application of Quantitative Molecular Methods to Characterize Abundance and Distribution of Alexandrium Cysts For NOAA's HAB Forecasting – Year 1 Update	Julie Matweyou	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
*Habitat Utilization By Diapausing Copepods in the Northern Gulf of Alaska	Delaney Coleman	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Modeling the Influence of Trade Dynamics on Marine Nonindigenous Species Delivery from Ballast Water in Alaska	Danielle Verna	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Impacts of the Recent Marine Heat Waves on the Oceanography and Plankton Ecosystem of Prince William Sound	Robert Campbell	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Seasonal Dynamics of the Harmful Dinoflagellate Alexandrium and Associated Paralytic Shellfish Toxin Contamination in Shellfish: NPRB 1801 Project Updates for Prince William Sound	Xiuning Du	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Phytoplankton Dynamics Across Hydrographic Fronts and Mesoscale Features: Preliminary Results from the New NGA-LTER Ocean Optics Program	Benjamin Lowin	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
*Seasonal Abundance and Biomass of Pelagic Tunicates and Snails in the Gulf of Alaska and Prince William Sound	Emily Stidham	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Deposition and Reproductive Viability of Beach-Cast Macroalgal Wrack in the Northern Gulf of Alaska	Brian Ulaski	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
*Size Distribution Variability in Pacific Blue Mussels (<i>Mytilus trossulus</i>) in Glacially Influenced Estuaries	Amy Dowling	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Juvenile Salmon Use of Vegetated Nearshore Marine Habitats in Southeast Alaska	Lia Domke	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
**The Decline of Acoustic Backscatter Associated With Overwintering Pacific Herring (<i>Clupea pallasii</i>) in Lynn Canal, Alaska	Savannah LaBua	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Heatwave-Induced Synchrony Within Forage Fish Portfolio Disrupts Energy Flow to Top Pelagic Predators	Mayumi Arimitsu	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>) in Alaska	Garrett Dunne	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Satellite Tagging of Chinook Salmon in the Gulf of Alaska	Andrew Seitz	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Interactive Effects of Prey Quality and Elevated Co2 on Size and Lipid Composition of Northern Rock Sole (<i>Lepidopsetta polyxystra</i>) Larvae	Louise Copeman	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Summer Tourists: the Rare, Amazing, and Out-of-Their-Range Visitors Observed During Seabird Surveys in the Northern Gulf of Alaska	Daniel Cushing	Poster Presentation	Seabirds	PRE-RECORDED
*Subtidal Habitat Mapping in Cook Inlet for Current and Predictive Sea Otter Habitat Associations	Elizabeth Hasan	Poster Presentation	Mammals	PRE-RECORDED
†Seasonal Trends and Demographic Patterns of Sperm Whales At Seven Passive Acoustic Monitoring Sites in the Gulf of Alaska and Aleutian Islands	Caroline Soderstjerna	Poster Presentation	Mammals	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
Monitoring Projects From Alaska in the NIST Biorepository	Amanda Moors	Poster Presentation	Mammals	PRE-RECORDED
Preliminary Estimates of Age-Specific Reproductive Performance of Steller Sea Lions <i>Eumetopias jubatus</i> in Southeast Alaska	Kelly Hastings	Poster Presentation	Mammals	PRE-RECORDED
*Seasonal Habitat Use and Distribution Patterns of Southern Alaska Resident Killer Whales, as Determined by Passive Acoustic Monitoring	Hannah Myers	Poster Presentation	Mammals	PRE-RECORDED
2020 Alaska Region Marine Mammal Stranding Summary	Barb Lake	Poster Presentation	Mammals	PRE-RECORDED
Hunting Belugas, <i>Delphinapterus leucas</i> , in Cook Inlet, Alaska, and the Importance of Cooperative Management	Kim Shelden	Poster Presentation	Mammals	PRE-RECORDED
Seeking to Understand: Sea Star Wasting Syndrome and Community Engagement	Katie Gavenus	Poster Presentation	Humans	PRE-RECORDED
Community-Based PSP Testing For Shellfish - Kodiak Region Summary	Julie Matweyou	Poster Presentation	Humans	PRE-RECORDED
Tribal Monitoring and Recovery of Native Clams in the Chugach Tribe's Subsistence Shellfish Use Areas	Maile Branson	Poster Presentation	Humans	PRE-RECORDED
Highlighting Ecosystem Status For Alaska Coastal Communities in Kachemak Bay Alaska	Karyn DeCino	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
*Effects of Habitat Complexity and Sea Otter Predation on the Abundance and Size Distribution of Crab Assemblages in Southeast Alaska	Rebecca Cates	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Gulf Watch Alaska: Building Partnerships to Understand Ecosystem Change	Mandy Lindeberg	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
Inter-Annual and Longterm Variability of Rocky Intertidal Biota at Selected Sites in Prince William Sound, 1989 to 2020	Alan Mearns	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
*Photo-Enhanced Toxicity of Dispersed and Burned Crude Oil to Arctic Mussels: A Biochemical Approach	Kevin Fitzpatrick	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED



2021 VIRTUAL ALASKA MARINE SCIENCE SYMPOSIUM

BERING SEA DAY

JANUARY 27TH, 2021
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TITLE	PRESENTER	TYPE	SECTION	TIME
The Beginnings of Alaska Salmon Management 1919-1924	Bob King	KEYNOTE		LIVE 8:30 - 9:00 AM
Changes in Nearshore Ecosystems and Relevance to Coastal Communities in the Bering Sea		PANEL DISCUSSION		LIVE 10:30 AM - 12:00 PM
Looking Across the Border: U.S.-Russia Science Corner		PANEL DISCUSSION		LIVE 1:00 - 3:30 PM
The Next Decade of Alaskan Ocean Acidification Research: What We Learned, Where 2020 Fits, and What's Coming Next For the Bering Sea	Jessica Cross	Oral Presentation	Climate and Oceanography	PRE-RECORDED
**Seasonal Variations and Effects of Temperature on Oxygen Consumption Rates For Intact Sediment Cores and Individual Dominant Organisms in the Northern Bering Sea	Christina Goethel	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
*The Effect of Cold Pool Variability on Zooplankton Dynamics of the Eastern Bering Sea Shelf	Jennifer Johnson	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Using Uncrewed Surface Vehicles to Survey Walleye Pollock, the Nation's Largest Fishery, During An Unprecedented Pandemic	Alex De Robertis	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Stock Compositions of Immature Chinook Salmon in the Eastern Bering Sea	Kathrine Howard	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Insights into Seasonal Movement Patterns and Environmental Correlates of Northern Bering Sea Pacific Cod from Satellite Tagging Data	Julie Nielsen	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Estimating Spatiotemporal Availability of Transboundary Fishes to Fishery-Independent Surveys	Cecilia O'Leary	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Novel Synthesis Framework for Ecosystem Dynamics Forecasts Community Reassembly in the Bering Sea and Identifies Demographic Fingerprint of Cold Pool for Alaska Pollock	James Thorson	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Marine Heat Wave Negatively Impacted Crested Auklets (<i>Aethia cristatella</i>) at Little Diomedede Island during 2015-2016	Hector Douglas	Oral Presentation	Seabirds	PRE-RECORDED
Modeling and Hindcasting Weather-Mediated Migratory Departure of Northern Fur Seal Pups	Noel Pelland	Oral Presentation	Mammals	PRE-RECORDED
Evaluating Thermal Imagery From Aerial Surveys for Counts of Harbor Seals in the Aleutian Islands of Alaska	Josh London	Oral Presentation	Mammals	PRE-RECORDED
Analysis of Fin Whale (<i>Balaenoptera physalus</i>) Calling Activity in the Bering Sea From Long Term (2006-2019) Passive Acoustic Data	Daniel Woodrich	Oral Presentation	Mammals	PRE-RECORDED
Energy Expenditure of Young Walruses; Direct Measures and Predicted Impact Due to Arctic Warming	David Rosen	Oral Presentation	Mammals	PRE-RECORDED
A Pathway to Incorporate Northern Fur Seals into Ecosystem-Based Management of the Walleye Pollock Fishery	Elizabeth McHuron	Oral Presentation	Mammals	PRE-RECORDED
Bering Strait Marine Debris Event – Response, Challenges, and Opportunities	Peter Murphy	Oral Presentation	Humans	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
A Participatory Research Approach to Investigate Juvenile Chinook Salmon Outmigration on the Yukon Delta	Courtney Weiss	Oral Presentation	Humans	PRE-RECORDED
*Permit Migration in Alaska's Limited Entry Salmon Fisheries	Marcus Gho	Oral Presentation	Humans	PRE-RECORDED
Data-Driven Planning Framework for Conservation of Subsistence Use Species in the Bering Sea	Max Goldman	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Detecting Marine Non-Native Species in the Bering Sea and Beyond	Gail Ashton	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Developing Ocean Acidification Forecasts for Fisheries Management in the Bering Sea	Darren Pilcher	Poster Presentation	Climate and Oceanography	PRE-RECORDED
A Comparison of LIM and EOF Methods for Hybrid Climate Downscaling	Albert Hermann	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Coastal Runoff Modeling for Alaskan Waters	David Hill	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Recent Warming in the Kamchatka Current	Konstantin Rogachev	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Amplified Tidal Currents over the Bering Sea Northern Shelf	Константин Рогачев	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Extending the North Pacific Continuous Plankton Recorder Survey Pole-Ward Through the Bering Sea into the Arctic and Potential Future Investigations	Clare Ostle	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Juvenile Chinook Salmon Condition Response to Warm Temperatures in the Northern Bering Sea, 2006–2019	Fletcher Sewall	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Historical and Future Climate-Driven Changes to Pacific Cod Spawning Habitat in the Bering Sea	Lauren Rogers	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
**Identifying Ocean Acidification Resilience in Bristol Bay Red King Crab	Esther Kennedy	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
High Co2 Effects on Multiple Behavioral Characteristics of Juvenile Walleye Pollock	Thomas Hurst	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Examining Seasonal Shifts in Distribution of Pacific Cod in the Bering Sea With Pop-Up Satellite Archival Tags	Susanne McDermott	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
*Understanding Spatial Dynamics and Stock Structure of Pacific Halibut (<i>Hippoglossus stenolepis</i>) in the Northern Bering Sea	Austin Flanigan	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
*Assessing Copper Toxicity to Salmonid Fry Under Water Quality Conditions Analogous to the Freshwaters Within the Bristol Bay Watershed	Drew Porter	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Comparative Predator-Mediated Habitat Use in Early Juvenile Southern Tanner Crab (<i>Chionoecetes bairdi</i>), Snow Crab (<i>Chionoecetes opilio</i>), and Red King Crab (<i>Paralithodes camtschaticus</i>)	Michele Ottmar	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Bering Strait Seabird Die-Off: Partnering in Search of Answers	Robb Kaler	Poster Presentation	Seabirds	PRE-RECORDED

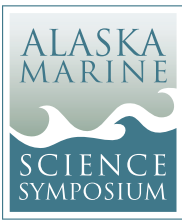


2021 *VIRTUAL* ALASKA MARINE SCIENCE SYMPOSIUM BERING SEA DAY

JANUARY 27TH, 2021
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TITLE	PRESENTER	TYPE	SECTION	TIME
Fluctuating Asymmetry of Bill Fluorescence in Crested Auklets (<i>Aethia cristatella</i>) and its Relationship to Behavior, Physiology, and Ecology	Hector Douglas	Poster Presentation	Seabirds	PRE-RECORDED
The Seabird Observer Notes: 26-Year Overview of Seabird Related Observations Including Vessel Strikes in Alaska Groundfish Fisheries 1993 – 2019	Elizabeth Labunski	Poster Presentation	Seabirds	PRE-RECORDED
Complex Shifts in Population Dynamics of Beringian Seabirds Are Linked to Long- and Short-Term Climate Modes	Douglas Causey	Poster Presentation	Seabirds	PRE-RECORDED
The Parallel Adventures of Short-Tailed Shearwaters and a Cross-Hemispheric Art Project: From Australia to Alaska and Back in the Year of Covid-19	Kathy Kuletz	Poster Presentation	Seabirds	PRE-RECORDED
**Profiling the Respiratory Microbiome of Northern Fulmars (<i>Fulmarus glacialis</i>) in the Bering Sea Using Metagenomic Analysis	Maile Branson	Poster Presentation	Seabirds	PRE-RECORDED
Geospatial Analysis of an Early Dataset on Plastic Ingestion By Short-Tailed Shearwaters in the Southeastern Bering Sea	Lucy Vlietstra	Poster Presentation	Seabirds	PRE-RECORDED
Automating Counts of Steller Sea Lions in Aerial Images Using UNET and VGG16 Convolutional Neural Network Models	Alexey Altukhov	Poster Presentation	Mammals	PRE-RECORDED
One Year Later: Modest Recovery of the Raykoke Island Steller Sea Lion Rookery After the June 2019 Volcanic Eruption	Vladimir Burkanov	Poster Presentation	Mammals	PRE-RECORDED
The Decline Continues: 2020 Survey on the Aleutian Islands Westernmost Steller Sea Lion Rookery	Vladimir Burkanov	Poster Presentation	Mammals	PRE-RECORDED
Improving the Performance of Convolutional Neural Network (CNN) Algorithms for Automated Image Recognition of Branded Steller Sea Lions	Alexey Altukhov	Poster Presentation	Mammals	PRE-RECORDED
Novel Fieldwork Partnerships in Response to the Novel Coronavirus Pandemic: Deploying Pop-Up Floats Across the Eastern Bering Sea Shelf in 2020	Thomas Van Pelt	Poster Presentation	Humans	PRE-RECORDED
Time-Series Measurements of Export Fluxes Across the Bering Strait	Catherine Lalande	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED
*Identifying Pathways of Methylmercury Through Marine Food-Webs of the Aleutian Islands Using a Novel Coupling of Compound Specific Isotopic Approaches	Michelle Trifari	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED



2021 *VIRTUAL* ALASKA MARINE SCIENCE SYMPOSIUM ARCTIC DAY

JANUARY 28TH, 2021
AGENDA AT-A-GLANCE

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TITLE	PRESENTER	TYPE	SECTION	TIME
There and Back Again – My Journey to the Top of the World During the MOSAIC Expedition	Carin Ashjian	KEYNOTE		LIVE 8:30 - 9:00 AM
Changes in Nearshore Ecosystems and Relevance to Coastal Communities in the Chukchi and Beaufort Seas		PANEL DISCUSSION		LIVE 10:30 AM - 12:00 PM
Connecting Alaska's Marine and Coastal Biodiversity to the Circumpolar Arctic		PANEL DISCUSSION		LIVE 1:00 - 2:30 PM
*Examining Melt Pond Variability Via High Resolution Satellite Imagery	Austin Abbott	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Summer pCO ₂ Dynamics in Eastern Bering Sea and Chukchi Sea Based on Autonomous Surface Vehicles and Underway Measurements From 2017 to 2019	Hongjie Wang	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Recent Volume, Heat, and Nutrient Fluxes on the Pacific Arctic Continental Shelf	Seth Danielson	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Future of the Arctic as Seen from CMIP6 Models	Muyin Wang	Oral Presentation	Climate and Oceanography	PRE-RECORDED
The Role of Shorefast Sea Ice in the Protection of Alaskan Arctic Coastlines	Lucia Hosekova	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Flow Patterns over the Chukchi Continental Shelf: 2010-2020	Phyllis Stabeno	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Persistent Directional Wind Forcing over Seasonal Ice-Covered Waters in the Vicinity of Mackenzie Canyon and the Eastern Alaskan Arctic	Matthew Asplin	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Thin Ice, Deep Snow, and Surface Flooding: the Mass Balance of Landfast Ice in Kotzebue Sound During Two Anomalously Warm Winters	Andy Mahoney	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Less Climatic Resilience in the Arctic	James Overland	Oral Presentation	Climate and Oceanography	PRE-RECORDED
West Arctic Storminess During Winter 2020: Meteorological Context and Sea Ice Impacts	Thomas Ballinger	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Upwelling and Downwelling in the Vicinity of Mackenzie Canyon in 2016-2018	Peigen Lin	Oral Presentation	Climate and Oceanography	PRE-RECORDED
**Effects of a Changing Environment on Microbial Communities in Chukchi Shelf Sediments	Alexis Walker	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Seasonal Patterns of Near-Bottom Chlorophyll Fluorescence in the Eastern Chukchi Sea: 2010–2019	Michael Sigler	Oral Presentation	Climate and Oceanography	PRE-RECORDED
Mean and Seasonal Circulation of the Eastern Chukchi Sea from Moored Timeseries in 2013-14	Robert Pickart	Oral Presentation	Climate and Oceanography	PRE-RECORDED
*Sediment Microbial Community Composition Remains Stable Despite Extreme Seasonal Shifts in Environmental Conditions in Beaufort Sea Coastal Lagoons	Natasha Griffin	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
**Environmental Filtering of Functional Composition in Alaskan Arctic Shelf Epibenthos	Lauren Sutton	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Seasonal Phytoplankton Fatty Acid Dynamics in the North Bering-Chukchi Sea Regions	Jens Nielsen	Oral Presentation	Lower Trophic Levels	PRE-RECORDED



2021 VIRTUAL ALASKA MARINE SCIENCE SYMPOSIUM ARCTIC DAY

JANUARY 28TH, 2021
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TITLE	PRESENTER	TYPE	SECTION	TIME
Winners and Losers in a Warming Arctic: Potential Habitat Gain and Loss for Epibenthic Invertebrates of the Chukchi and Bering Seas	Elizabeth Logerwell	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Seasonal and Interannual Variability of Nitrate in the Eastern Chukchi Sea: Transport and Winter Replenishment	Calvin Mordy	Oral Presentation	Lower Trophic Levels	PRE-RECORDED
Community Reorganization of Nearshore Arctic Fishes Without Range Expansion	Vanessa von Biela	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
**Where Do They Come From, and Where Do They Go? Abundance, Distribution, and Transport of Age-0 Gadids on the Chukchi Shelf	Robert Levine	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Pacific Cod or Treska (<i>Gadus macrocephalus</i>) in the Chukchi Sea	Dan Cooper	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Shifting Summer Distributions of Arctic Cod (<i>Boreogadus saida</i>) and Saffron Cod (<i>Eleginus gracilis</i>) in the Alaskan Arctic	Jen Marsh	Oral Presentation	Fishes and Fish Habitats	PRE-RECORDED
Migratory Movements of Red Phalarope in the Beaufort, Chukchi and Bering Seas, and Their Association with Oceanographic Conditions	Sarah Saalfeld	Oral Presentation	Seabirds	PRE-RECORDED
Tracking Killer Whale Movement in the Alaskan Arctic Using Passive Acoustics	Brynn Kimber	Oral Presentation	Mammals	PRE-RECORDED
*Coastal or Pelagic? Identifying Ecotypes of Southern Beaufort Sea Polar Bears Using Stable Isotope Analyses	Malia Smith	Oral Presentation	Mammals	PRE-RECORDED
Dive Characteristics of Eastern Beaufort Beluga Whales Tracked over an Annual Cycle Reveal Multiple Habitat-Dependent Behaviors	Luke Storrie	Oral Presentation	Mammals	PRE-RECORDED
*What Can Aerial Photography and Photogrammetry Reveal about Beluga Grouping Behaviour and Spatial Organization?	Alexandra Mayette	Oral Presentation	Mammals	PRE-RECORDED
Estimating the Exposure of Beluga and Bowhead Whales to Ships and Ship Noise in the Pacific Arctic	William Halliday	Oral Presentation	Mammals	PRE-RECORDED
**Social-Ecological Drivers and Mediating Factors Affecting Access to Coastal Subsistence Resources in Arctic Alaska	Kristen Green	Oral Presentation	Humans	PRE-RECORDED
Ecosystem Changes in the Pacific Arctic: A Decade into the Distributed Biological Observatory Approach	Jacqueline Grebmeier	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
*Metabolomics of Dispersed vs. Burned Crude Oil in Arctic Mussels and Photo-Enhanced Effects	Stacey Hanson	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Tracking Changes in the Coastal Ecosystem of the Alaskan Arctic through a Collaborative Network of Observers in Coastal Indigenous Communities	Donna Hauser	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
The Marine Arctic Ecosystem Study (MARES) in the Eastern Beaufort Sea 2014-2020	Francis Wiese	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
**Representative Range of Acoustic Point Source Measurements in the Chukchi Sea	Silvana Gonzalez	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED



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TITLE	PRESENTER	TYPE	SECTION	TIME
Late Season Observations in the Northern Bering and Chukchi Seas: Initial Results from an October 2020 Research Cruise	Lee Cooper	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
**Representative Range of Acoustic Point Source Measurements in the Chukchi Sea	Silvana Gonzalez	Oral Presentation	Ecosystem Perspectives	PRE-RECORDED
Long-Term Monitoring of Arctic Shorefast Sea Ice Along Whale Hunting Trails at Utqiagvik, Alaska	Joshua Jones	Poster Presentation	Climate and Oceanography	PRE-RECORDED
*High-Resolution Biological Net Community Production in the Pacific-Influenced Arctic: A Multi-Method Comparison	Haley Cynar	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Particulate Organic Matter Distributions in the Water Column of the Chukchi Sea During Late Summer	Miguel Goni	Poster Presentation	Climate and Oceanography	PRE-RECORDED
Impact of the Beaufort Gyre Freshwater Release on the Subpolar North Atlantic Salinities	Jiaxu Zhang	Poster Presentation	Climate and Oceanography	PRE-RECORDED
**Leaching and Biolability of Dissolved Organic Matter from Eroding Bluffs Along the Alaska Beaufort Sea Coast	Emily Bristol	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Seasonal and Spatial Variations of Inorganic Nutrients in Beaufort Sea Coastal Lagoons	Brian Kim	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
**Impact of Oil Concentration and Irradiance on Sea-Ice Algal Growth Rate	Kyle Dilliplaine	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
†Influence of the Alaska Coastal Current on Seasonal Patterns of Near-Bottom Chlorophyll Fluorescence in the Eastern Chukchi Sea	Yasamin Bayley	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
†Tiny Travelers: Behavioral Response of Copepod (<i>Calanus finmarchicus</i>) to Crude Oil Spills	Sam McNeely	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Increasing Zooplankton Biomass Associated with Sea Ice Loss in the Western Arctic Ocean	Motoyo Itoh	Poster Presentation	Lower Trophic Levels	PRE-RECORDED
Food Web Biomarkers: Organic Matter Pathway Use in Arctic Beaufort Lagoon Ecosystems	Sydney Wilkinson	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Contrasting Terrestrial Organic Matter Assimilation by Fishes from Two Beaufort Sea Regions	Ashley Stanek	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
*Detection of <i>Boreogadus saida</i> Using eDNA in Prudhoe Bay, Alaska	Carolyn Hamman	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Reconnaissance at Point Hope: the Marryat Lagoon Fish Monitoring Feasibility Study	Marguerite Tibbles	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Heat Tolerance of North Slope Fishes	Kevin Bilyk	Poster Presentation	Fishes and Fish Habitats	PRE-RECORDED
Harmful Algal Blooms and Alaska Seabirds: A Multifaceted Approach to A Complex Issue	Caroline Van Hemert	Poster Presentation	Seabirds	PRE-RECORDED
*Quantifying Characteristics of Ringed Seal (<i>Natchiq</i>) Lair Habitat Through Knowledge Co-Production in Kotzebue Sound, Alaska	Jessica Lindsay	Poster Presentation	Mammals	PRE-RECORDED
Informing Best Practices for Field Body Condition Assessments of Wild Arctic Seals	Michelle Hartwick	Poster Presentation	Mammals	PRE-RECORDED
*Cardiorespiratory Patterns in Resting Alaskan Seals	Ryan Jones	Poster Presentation	Mammals	PRE-RECORDED



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**Characterizing A Novel Reproductive Biomarker in Polar Bears	Monica Brandhuber	Poster Presentation	Mammals	PRE-RECORDED
Spatial and Temporal Distribution of Essential and Non-Essential Elements Recorded in Western Arctic Bowhead Whales (<i>Balaena mysticetus</i>)	Amy Hirons	Poster Presentation	Mammals	PRE-RECORDED
Description of the Thymus Gland and Growth Dynamics in Immature Bowhead Whales, Alaska	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
*Should We Expect Shift in Beluga Habitat Use in the Context of Climate Change – Case of Inshore Mackenzie Estuary and Tarrum Niryutait Marine Protected Area in Western Arctic Canada	Aurelie Noel	Poster Presentation	Mammals	PRE-RECORDED
Molting Status Differentially Affects Resting Metabolism of Alaskan Seals in Air and Water	Holly Hermann-Sorensen	Poster Presentation	Mammals	PRE-RECORDED
Prevalence of Sarcocystis Spp. in Ringed (<i>Phoca hispida</i>) and Bearded Seals (<i>Erignathus barbatus</i>) from Northern and Western Alaska	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Urinary Stone Formation Associated with <i>Staphylococcus pseudintermedius</i> in a Free-Ranging Ringed Seal (<i>Phoca hispida</i>), Alaska	Raphaela Stimmelmayer	Poster Presentation	Mammals	PRE-RECORDED
Status of Ringed, Bearded, Spotted, and Ribbon Seals in Alaska Using Harvest-Based Monitoring by Decade: 1960s, 1970s, 2000s, and 2010s	Anna Bryan	Poster Presentation	Mammals	PRE-RECORDED
Exploring Effects of Vessel Exposure on Pacific Walrus Behaviors	Rebecca Taylor	Poster Presentation	Mammals	PRE-RECORDED
Using Social Media to Investigate Opportunities to Improve Citizen Science Across US-Russia Boundaries	Olivia Lee	Poster Presentation	Humans	PRE-RECORDED
Co-Production of Knowledge Reveals How Sea Ice Loss Constrains Indigenous Hunting Opportunities For Bearded Seals in Kotzebue Sound	Donna Hauser	Poster Presentation	Humans	PRE-RECORDED
**Photo-Enhanced Toxicity of Dispersed vs. Burned Crude Oil to Arctic Mussels	Katherine Humpal	Poster Presentation	Ecosystem Perspectives	PRE-RECORDED