

# KODIAK AREA MARINE SCIENCE SYMPOSIUM

## Agenda - Virtual Symposium via Zoom - April 19 - 23, 2021

### Monday - April 19, 2021

5:30-6:00 pm	Welcome and opening remarks	<b>Julie Matweyou</b> , University of Alaska Fairbanks, Kodiak, AK
6:00-7:00 pm	Keynote Address Heatwave impacts on the Gulf of Alaska Pacific cod	<b>Steve Barbeaux</b> , NOAA Alaska Fisheries Science Center, Seattle, WA

### Tuesday - April 20, 2021

	<b>Session 1: Fisheries then and Now</b> <i>Julie Bonney - Session Chair</i>	
9:00 - 9:05 am	Opening Remarks and announcements	
9:05 - 9:25 am	Ocean climate and Gulf of Alaska salmon: where have we been, where are we now, and where are we going?	<b>Mike Litzow</b> , NOAA Alaska Fisheries Science Center, Kodiak, AK
9:25 - 9:45 am	Adaptive fish culture practices in a changing environment	<b>Trenten Dodson</b> , Kodiak Regional Aquaculture Association, Kodiak, AK
9:45 - 10:05 am	Intertidal fish traps of the Kodiak Archipelago	<b>Molly Odell</b> , Alutiiq Museum & Archaeological Repository, Kodiak, AK
10:05 - 10:25 am	Improving discard mortality rate estimates of Pacific halibut ( <i>Hippoglossus stenolepis</i> ) in the directed longline fishery	<b>Claude Dykstra</b> , International Pacific Halibut Commission, Seattle, WA
10:25 - 10:45 am	Subsistence Harvest and Kodiak Island Communities	<b>Jackie Keating</b> , Alaska Department of Fish and Game, Anchorage, AK
10:45 - 11:05 am	Characterization of the Buskin River Nearshore Area: a four-year study of bathymetry, salinity, marine ecological succession, and human use	<b>Leyla Arsan</b> , Birch Leaf Consulting, LLC Anchorage, AK
11:05 - 11:30 am	Facilitated Q & A and discussion	<b>Jo Ellen Lottsfeldt</b> , Miami University, Kodiak, AK
11:30 am - 1:00 pm	<b>Break</b>	
	<b>Session 2: What's Blooming in your Waters?</b> <i>Brian Himelbloom - Session Chair</i>	
1:00 - 1:05 pm	Opening remarks and announcements	
1:05 - 1:35 pm	Saxitoxin and the Cold War	<b>Patricia Tester</b> , Ocean Tester, LLC, Beaufort, NC
1:35 - 1:55 pm	Effectiveness of butter clam cleaning practices to reduce PSP risk	<b>Julie Matweyou</b> , University of Alaska Fairbanks, Kodiak, AK
1:55 - 2:15 pm	Community based monitoring of harmful algal blooms and ocean acidification	<b>Andie Wall</b> , Kodiak Area Native Association, Kodiak, AK
2:15 - 2:35 pm	Paralytic shellfish toxins in fish and invertebrates of southcentral and southwest Alaska	<b>Steve Kibler</b> , NOAA National Ocean Service, Beaufort, NC
2:35 - 3:00 pm	Facilitated Q & A and discussion	<b>Jo Ellen Lottsfeldt</b> , Miami University, Kodiak, AK

### Wednesday - April 21, 2021

	<b>Session 3: Eyes on Marine Birds and Mammals</b> <i>Cindy Trussell - Session Chair</i>	
9:00 - 9:05 am	Opening remarks and announcements	
9:05 - 9:25 am	Nearshore marine bird and mammal surveys in the Kodiak Archipelago, 2014-2016	<b>Robin Corcoran</b> , U.S. Fish and Wildlife Service, Kodiak, AK



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### Wednesday - April 21, 2021 - continued

9:25 - 9:45 am	Alutiiq use of birds during the Ocean Bay Period at Rice Ridge (49-KOD-363), Kodiak Island	<b>Madonna Moss</b> , University of Oregon, Eugene, OR
9:45 - 10:05 am	The diet composition of Aleutian tern chicks in the Kodiak Archipelago, Alaska	<b>Jill Tengeres</b> , Oregon State University, Corvallis, OR
10:05 - 10:25 am	Marine die-offs in a warming ocean: working together to witness change	<b>Jackie Lindsey</b> , University of Washington/COASST, Seattle, WA
10:25 - 10:45 am	Current marine mammal stranding response on the Kodiak Archipelago	<b>Matthew Van Daele</b> , Sun'aq Tribe of Kodiak Kodiak, AK
10:45 - 11:15 am	Facilitated Q & A and discussion	<b>Jo Ellen Lottsfeldt</b> , Miami University, Kodiak, AK
11:15 am - 6:00 pm	<b>Break</b>	
6:00 - 6:05 pm	Opening remarks	
6:05 - 7:00 pm	Invited Address: 23 January 2018 magnitude 7.9 offshore Kodiak earthquake: what we learned and ongoing studies	<b>Natalia Ruppert</b> , University of Alaska Fairbanks, Fairbanks, AK

### Thursday - April 22, 2021

	<b>Session 4 - Getting Crabby</b> <i>Mike Litzow- Session Chair</i>	
9:00 - 9:05 am	Opening remarks	
9:05 - 9:25 am	Feeling the heat: snow crab in a warming ocean	<b>Erin Fedewa</b> , NOAA Alaska Fisheries Science Center, Kodiak, AK
9:25 - 9:45 am	Red king crab stock enhancement experiments in Kodiak	<b>W. Christopher Long</b> , NOAA Alaska Fisheries Science Center, Kodiak, AK
9:45 - 10:05 am	Tracking king crabs with drones	<b>Leah Zacher</b> , NOAA Alaska Fisheries Science Center, Kodiak, AK
10:05 - 10:25 am	Tanner crab population in the Kodiak District of Westward Region	<b>Kally Spalinger</b> , Alaska Department of Fish and Game, Kodiak, AK
10:25 - 10:45 am	Effects of ocean acidification on Alaskan crabs: updates from the Kodiak Lab	<b>W. Christopher Long</b> , NOAA Alaska Fisheries Science Center, Kodiak, AK
10:45 - 11:15 am	Facilitated Q & A and discussion	<b>Jo Ellen Lottsfeldt</b> , Miami University, Kodiak, AK
11:15 am - 1:00 pm	<b>Break</b>	
	<b>Session 5 - One Fish, Two Fish, Rockfish, Codfish</b> <i>Matthew Van Daele - Session Chair</i>	
1:00 - 1:05pm	Opening remarks and announcements	
1:05 - 1:25 pm	Rockfish knowledge project: what have we learned from the Kodiak community about rockfish fisheries and management?	<b>Jesse Gordon</b> , University of Alaska Fairbanks, Juneau, AK
1:25 - 1:45 pm	The impact of Gulf of Alaska marine heatwaves on early life stages of Pacific cod	<b>Benjamin Laurel</b> , NOAA Alaska Fisheries Science Center, Newport, OR
1:45 - 2:05 pm	High ocean temperature linked to apparent recruitment failure for juvenile Pacific cod ( <i>Gadus macrocephalus</i> ) in the Gulf of Alaska	<b>Alisa Abookire</b> , Alaska Coastal Observations and Research, Kodiak, AK
2:05 - 2:25 pm	Evaluating thermal effects on spawn timing and early growth of Gulf of Alaska Pacific Cod: Implications for survival and recruitment	<b>Jessica Miller</b> , Oregon State University, Newport, OR
2:25 - 3:15 pm	Panel discussion: Effects of warming oceans on Gulf of Alaska Pacific cod – a conversation	<b>Jessica Miller</b> , Oregon State University, <b>Benjamin Laurel</b> , NOAA AFSC, <b>Steve Barbeaux</b> , NOAA AFSC, <b>Lauren Rogers</b> , NOAA AFSC, <b>Alisa Abookire</b> , Alaska Coastal Observation and Research
3:15pm	<b>Closing Comments</b>	<b>Julie Matweyou</b> , University of Alaska Fairbanks, Kodiak, AK

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### Partnered Activities

#### **Kodiak 4-H Marine Debris Fish Project** - on display April 19 - 23, 2021

Kodiak 4-H partnered with Alaska Sea Grant to bring Kodiak youth the opportunity to come together, clean up our beaches and make a statement with their art during the Kodiak Area Marine Science Symposium & for Earth Day!! The art will be displayed during the entire week of KAMSS (April 19-23) downtown at the Kodiak History Museum and the Kodiak Wildlife Refuge Visitor Center. Photos of the display will be shared through the KAMSS 2021 Poster page and on the 4-H event page. Join us in celebrating our youth advocacy.  
<http://www.alaska4h.org/at-home-kits1.html>

#### **Buskin Beach Cleanup** - Friday, April 23, 2021 - 4:00 - 6:00 pm

Sponsored by Sun'aq Tribe of Kodiak, Alaska Sea Grant, and Island Trails Network

In celebration of Earth Day 2021 the Sun'aq Tribe of Kodiak and Alaska Sea Grant are organizing a beach cleanup. Meet at Buskin Beach Parking Lot and check in at 4:00 pm. Dress for the weather and bring a pair of gloves. Trash bags and hand sanitizer will be provided. Volunteers can assist with cleanup or help sort the debris for recycling. We will encourage social distancing and recommend masks as appropriate if you will be working alongside others. Day use parking fee will be waived for this event.

#### **Kodiak Public Library** - April 19 - 23, 2021

The Kodiak Public Library will be sharing marine resources and activities throughout the week. A children's Glow in the Dark Jellyfish craft event will be held Tuesday April 20th at 4:00 pm on Zoom; packets are ready for pick up. Join us outside for story walk featuring Baby Whale's Journey and sea poems. A display of children's books about whales and sea life is available in the children's room and YouTube StoryTime will feature Humphrey The Lost Whale. Please visit the library website for details.  
<https://www.city.kodiak.ak.us/library>

#### **Kodiak National Wildlife Refuge** - April 19 - 23, 2021

The Kodiak National Wildlife Refuge will be sharing marine fun facts, photos and art activities. Check out the Kodiak Refuge Facebook page during the week. Art supplies for take home activities are available at our door and the Kodiak 4-H marine debris exhibit will be displayed. Find us at the Kodiak Refuge Visitor Center on 402 Center Avenue.  
<https://www.facebook.com/kodiakrefuge/>

### Poster Session

Investigating Aleutian tern breeding season movements using satellite telemetry	<b>Robin Corcoran</b> , U.S. Fish and Wildlife Service, Kodiak, AK
Investigating Aleutian tern non-breeding season movement patterns using satellite telemetry	<b>Robin Corcoran</b> , U.S. Fish and Wildlife Service, Kodiak, AK
Application of quantitative molecular methods to characterize abundance and distribution of Alexandrium cysts for NOAA's HAB Forecasting – Year 1 Update	<b>Julie Matweyou</b> , University of Alaska Fairbanks, Kodiak, AK
Community-based PSP testing for shellfish - Kodiak Region summary	<b>Julie Matweyou</b> , University of Alaska Fairbanks, Kodiak, AK
Stream Side Settlement of the Karluk River, Kodiak Island, Alaska	<b>Molly Odell</b> , Alutiiq Museum & Archaeological Repository, Kodiak, AK
Identification of physiological growth signatures in skeletal muscle of Pacific halibut ( <i>Hippoglossus stenolepis</i> ) for monitoring population growth patterns	<b>Josep V. Planas</b> International Pacific Halibut Commission, Seattle, WA
Assessment of reproductive development in female Pacific halibut ( <i>Hippoglossus stenolepis</i> )	<b>Teresa Fish</b> , International Pacific Halibut Commission, Seattle, WA
Too hot to handle: Effects of thermal variability on juvenile Pacific cod foraging and growth in Gulf of Alaska nursery habitats	<b>Hillary Thalmann</b> , Oregon State University, Newport, OR



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