

# State of the Pacific Ocean Meeting, March 5-6, 2025

We will do our best to adhere to this schedule; however, given the nature of this meeting, some times may change. Please be flexible.

Oral presentations SOPO DAY 1 - Wednesday March 5, 2025						
P#	Length	Start time	End time	Name	Affiliation	Title
	0:10	9:00	- 9:10	Tucker/Gauthier/Boldt/Jackson	DFO	Introduction
	0:15	9:10	- 9:25	Elder Sulhulat	Tseycum First Nation	Opening
	0:05	9:25	- 9:30	Andy Thomson	DFO	Welcome from DFO
1	0:40	9:30	- 10:10	Charles Hannah	DFO	Oxygen and hypoxia in British Columbia waters
	0:20	10:10	- 10:30	Break		
2	0:15	10:30	- 10:45	Charles Curry	Pacific Climate Impacts Consortium, UVic	Land Temperature and Hydrological Conditions over B.C. in 2024
3	0:15	10:45	- 11:00	Ian Giesbrecht	HAKAI	River Discharge to coastal Pacific Ocean
4	0:15	11:00	- 11:15	Tetjana Ross	DFO	Review of temperature, salinity and density of the northeastern Pacific in 2024 using Argo, glider, satellite and Line P data
5	0:15	11:15	- 11:30	Andrea Hilborn	DFO	Satellite observations of surface chlorophyll-a, temperature, and marine heatwaves in 2024
6	0:15	11:30	- 11:45	Roy Hourston	DFO	Wind-driven upwelling/downwelling along the northwest coast of North America: timing and magnitude. With an update of the La Perouse time series
7	0:15	11:45	- 12:00	Jennifer Jackson	DFO	Sea surface temperature and salinity observed at shore stations along the B.C. coast in 2024
	1:15	12:00	- 13:15	Lunch		
8	0:15	13:15	- 13:30	Lynn Lee, Gwaii Haanas, Skil Jáada & CHN team, Stephen Page & DFO team & academic collaborators	DFO, Gwaii Haanas Parks Canada, Council of the Haida Nation, Hakai Institute	What ocean condition monitoring in Gandaawuu.ngaay Xyangs Juan Perez Sound is telling us about Gwaii Haanas and 2024 Haida Gwaii <b>Chaan sk'ada gud ahl hl̄unggulaa   Tang.gwan gan gud ad hl̄ang.gulxa</b> Working Together Ocean Sciences Expedition
9	0:15	13:30	- 13:45	Cynthia Bluteau/Charles Hannah	DFO	Subsurface ocean conditions on the B.C. shelf: the B.C. shelf mooring program
10	0:15	13:45	- 14:00	Amber Holdsworth	DFO	Climate variability on the BC shelf: insights from a 3 km ocean model
11	0:15	14:00	- 14:15	Guoqi Han	DFO	Ocean currents and temperature off the BC coast
12	0:15	14:15	- 14:30	Wiley Evans	Hakai Institute	Ocean acidification dynamics in nearshore regions during 2024
13	0:15	14:30	- 14:45	Angelica Peña	DFO	Nutrients and phytoplankton in the northeast Pacific in 2024
14	0:15	14:45	- 15:00	Justin Del Bel Belluz	Hakai Institute	2024 trends in phytoplankton biomass and community composition from timeseries stations in the northern Salish Sea and central coast, British Columbia
15	0:15	15:00	- 15:15	Moira Galbraith/Akash Sastri	DFO	West coast zooplankton: annual anomaly time series
	0:20	15:15	- 15:35	Break		
16	0:15	15:35	- 15:50	Sandie Hankewich/Joanne Lessard	DFO	BC assessment of kelp resources
17	0:15	15:50	- 16:05	Erin Herder	DFO	An update to Olympia Oyster index site monitoring around Vancouver Island
18	0:15	16:05	- 16:20	Lías Chavez	Tsawout First Nation	Á,LENENEȻ: Tsawout's Dungeness Crab Stewardship for Future Generations
19	0:15	16:20	- 16:35	Emily Rubidge/Kristen Westfall	DFO	Building eDNA metabarcoding as a tool to monitor Marine Protected Areas (MPAs)
	0:20	16:35	- 16:55	Tucker/Gauthier/Boldt/Jackson		Summary discussion
P2	0:05	16:55	- 17:00	Andrew Edwards	DFO	Updates since last year to pacea: an R package of Pacific ecosystem information to help facilitate an ecosystem approach to fisheries management (with a live demo during poster session)
P21	0:05	17:00	- 17:05	Philippe Tortell	UBC	Western Canadian ocean research initiative
	1:55	17:05	- 19:00			POSTER SESSION

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Oral presentations					SOPO DAY 2 - Thursday March 6, 2025		
P#	Length	Start time	End time	Name	Affiliation	Title	
	0:15	9:00	-	9:15	Tucker/Gauthier/Boldt/Jackson	DFO	Introduction
20	0:15	9:15	-	9:30	Clare Ostle	MBA	Lower Trophic Levels in the NE Pacific from CPR data
21	0:15	9:30	-	9:45	Cherisse DuPreez	DFO	Monitoring Deep-Sea MPAs
22	0:15	9:45	-	10:00	Jennifer Boldt	DFO	Pelagic fish: an update on status and trends
23	0:15	10:00	-	10:15	Jackie King	DFO	2024 juvenile salmon surveys on the continental shelf of Vancouver Island
	0:20	10:15	-	10:35	Break		
24	0:15	10:35	-	10:50	Jillian Dunic/Sean Anderson	DFO	Trends in Pacific Canadian groundfish stock status and surveys
25	0:15	10:50	-	11:05	Stéphane Gauthier	DFO	Pacific Hake inside and out : trends in the Salish Sea population of Pacific Hake ( <i>Merluccius productus</i> ) and update on the coastal migrating stock
26	0:15	11:05	-	11:20	Mark Hipfner	ECCC	Observations on seabirds along the B.C. coast
27	0:15	11:20	-	11:35	Douglas Bertram	ECCC	Inter-annual variation in marine bird counts within the Haro Strait region of the Salish Sea: 2015-2024
28	0:15	11:35	-	11:50	Strahan Tucker	DFO	Updated population status assessment for Stellar Sea Lion ( <i>Eumetopias jubatus</i> ) in Canadian Pacific waters
	1:25	11:50	-	13:15	Lunch		
29	0:15	13:15	-	13:30	Brianna M. Wright	DFO	Dietary specialization on elasmobranchs and seasonal foraging patterns by Offshore killer whales ( <i>Orcinus orca</i> ) of the northeast Pacific
30	0:15	13:30	-	13:45	Paul Cottrell	DFO	Collaborative efforts between Mexico, the United States and Canada to document the range wide Grey Whale unusual mortality event with a focus on British Columbia
31	0:15	13:45	-	14:00	Kohen Bauer/Eddy Carmack	ONC	Exploring the potential for a West Coast BC Distributed Biological Observatory (DBO)
32	0:15	14:00	-	14:15	Andrew Ross	DFO	Marine biotoxin monitoring in B.C. coastal waters
33	0:15	14:15	-	14:30	Jennifer Jackson	DFO	Salish Sea temperature, salinity and oxygen observations in 2024
34	0:15	14:30	-	14:45	Bridget Ferris	NOAA	The ecosystem status of the Gulf of Alaska in 2024
	0:20	14:45	-	15:05	Break		
35	0:15	15:05	-	15:20	Susan Allen	UBC	Update to 2024 (and a look forward to 2025) for the timing of the spring phytoplankton bloom and the summer productivity in the Strait of Georgia
36	0:15	15:20	-	15:35	Svetlana Esenkulova/Rich Pawlowicz	PSF	Oceanographic conditions and harmful algal blooms in the Strait of Georgia 2024
37	0:15	15:35	-	15:50	Rianna Burnham/Svein Vagle/Max Lauch	DFO	Soundscape monitoring in the Salish Sea 2018-2024
38	0:15	15:50	-	16:05	Kelly Young	DFO	Zooplankton status and trends in the central and northern Strait of Georgia, 2024
39	0:15	16:05	-	16:20	Linnea Flostrand	DFO	Eulachon status and trends in southern B.C.
40	0:15	16:20	-	16:35	Serena Wong/Merran Hague	PSC	Reconstructed estimates of Fraser River Sockeye Salmon marine timing and diversion rate at conservation unit and management unit levels
	0:25	16:35	-	17:00	Tucker/Gauthier/Boldt/Jackson		Summary discussion

## Poster presentations

## SOPO DAY 1 - Wednesday March 5, 2025

Poster #	Name	Affiliation	Title
1	Jennifer Boldt	DFO	Unusual events
2	Andrew Edwards	DFO	Updates since last year to pacea: an R package of Pacific ecosystem information to help facilitate an ecosystem approach to fisheries management (with a live demo during poster session)
3	Sile Kafrissen	DFO	Dynamics of Primary and Secondary Productivity in the Strait of Georgia: Insights from 2023-2024 Observations
4	Dave Riedel	CHS	Sea Level in British Columbia, 1910 to 2024
5	Duncan Havens	CHS	2024 CHS Pacific Region Hydrographic Surveys
6	Greg Jones	DFO	Surface current patterns affecting ocean transport to the Scott Islands
7	Chris Rooper	DFO	Joint Canada-USA international seamount survey - 2024
8	Jennifer Holder	Royal Canadian Navy	Department of National Defence (DND) Maritime Readiness Marine Mammal Observer Program
9	Darienne Lancaster	UVIC	Breaching the acoustic deadzone: Using echosounders to find benthic rockfish in Mowachaht/Muchalahat territory
10	Robyn Taves/Rianna Burnham/Svein Vagle	DFO	Near-bottom oceanographic measurements from ten locations in the Salish Sea
11	Kelly Young	DFO	PSSI Barkley Sound Euphausiid Monitoring Project
12	Steve Latham	PSC	Trends in body sizes of Fraser River Sockeye and Pink Salmon
13	Manman Wang	ONC	ONC state of the Pacific Ocean: contributions from High-Frequency Radars
14	Anna McLaskey	UBC	Nutrition of prey species for salmon: drivers of thiamine (vitamin B1) deficiency
15	Mike Morley	CHS	Hydrographic Vertical Separation Surfaces for Canadian Waters
16	Jacob Lerner	UBC	Establishing baselines, risks, and mechanisms of thiamine deficiency in British Columbia Chinook Salmon, 2023-2024
17	Katherine Middleton/Emily Loewen	DFO	Canada's Oceans Now
18	Ilias Bougoudis	UBC	Using machine learning to predict the appearance of phytoplankton bloom in Salish Sea
19	Zarah Zheng/Andrew Snauffer/Kohen Bauer	ONC	Quantifying oceanic carbon and qualifying the challenge of measuring carbon in Baynes Sound, BC, Canada
20	Nathanael Tabert	UVic	Adult salmon diets as indicators of prey species distribution and availability
21	Philippe Tortell	UBC	Pacific Rim Initiative for Sustainable Marine Systems (PRISMS)
22	Jody Klymak	UVic	Mesoscale and submesoscale, particularly as it pertains to lateral mixing and its effect on ocean state in the NEP
23	Sam Stevens	Hakai Institute	Emerging Hypoxia on the Central Coast of British Columbia
24	Tom Therriault	DFO	Update on the distribution of aquatic invasive species in the Pacific Region
25	Jennifer Boldt	DFO	2024 Monitoring Canada's Pacific Ocean
26	Jocelyn Nelson	DFO	Researching the research stations: annual monitoring at PBS and IOS

## Acronyms

CHS	Canadian Hydrographic Service
CPR	Continuous Plankton Recorder
DFO	Fisheries and Oceans Canada
ECCC	Environment and Climate Change Canada
IOS	Institute of Ocean Sciences
MPA	Marine Protected Area
MBA	Marine Biological Association
NEP	Northeast Pacific
NOAA Fisheries	National Oceanic and Atmospheric Administration -Fisheries, USA
ONC	Ocean Networks Canada
PBS	Pacific Biological Station
PICES	North Pacific Marine Science Organization
PSC	Pacific Salmon Commission
PSF	Pacific Salmon Foundation
SOG	Strait of Georgia
SOPO	State of the Pacific Ocean
UBC	University of British Columbia
UVic	University of Victoria
VIU	Vancouver Island University
WCVI	West coast Vancouver Island