



Nearshore Restoration Summit and Synthesis

March 2021



Washington
Department of
**FISH and
WILDLIFE**



**PUGET SOUND ECOSYSTEM
MONITORING PROGRAM**



**ESTUARY
& SALMON
RESTORATION PROGRAM**





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Summit Overview

Broad Summit Goal:

Led by the Puget Sound Ecosystem Monitoring Program (PSEMP) Nearshore Work Group and the Washington Department of Fish and Wildlife's (WDFW) Estuary and Salmon and Restoration Program (ESRP), our goal is to connect restoration scientists and practitioners to synthesize nearshore science and restoration actions in Puget Sound to create a durable roadmap that updates restoration conceptual models and identifies key uncertainties for future research and management to address.

Summit Objectives:

1. Synthesize biophysical and social science research informing nearshore restoration in Puget Sound.
2. Synthesize nearshore restoration work in Puget Sound.
3. Identify the most important science and restoration management questions that will guide actions that improve nearshore ecosystem condition.
4. Update the Puget Sound Nearshore Ecosystem Restoration Project (PSNERP) conceptual models for the ecosystem responses of specific restoration actions and best practices to incorporate new research (Clancy et al. 2009).
5. Develop and/or incorporate social science principles including Diversity, Equity and Inclusion (DEI) into conceptual models for nearshore restoration.

Summit Layout:

We have structured the Summit around Beach, Delta and Embayment shoreforms and the unique ecological and social dynamics that contribute to their restoration and protection.

Week 1: Beaches

Day 1 (Weds 3/10): Beach Presentations 9:30 am to 2:30 pm

Day 2 (Thurs 3/11): Beach Presentations 8:30 am to 12:00 pm

Week 2: Deltas

Day 1 (Weds 3/17): Delta Presentations 8:30 am to 4:00 pm

Day 2 (Thurs 3/18): Delta Presentations 8:30 am to 12:15 pm

Week 3: Embayments

Day 1 (Weds 3/24): Embayment Presentations 12:30 pm to 3:30 pm

Day 2 (Thurs 3/25): Embayment Presentations 9:30 am to 12:30 pm

Registration:

The Summit will be held virtually using the Zoom platform. To register, please follow the instructions within the following Zoom Registration Link.



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Beach Presentation Schedule – Day One

March 10, 2021 - 9:30 AM - 2:30 PM
Zoom Registration Link

| Topic | Time | Presentation Title | Speaker(s) | Affiliation |
|--------------------------------|---------------|---|------------------------------|--|
| Introduction | 9:30 - 9:40 | Welcome, Land Acknowledgement, Meeting Principles and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| | 9:40 - 9:50 | Summit Background and Goals | Tish Conway-Cranos | WA Dept. Of Fish and Wildlife |
| | 9:50 - 10:00 | Introduction to Beaches | Hugh Shipman | Washington Department of Ecology, Retired |
| Morning Presentations | 10:00 - 10:15 | Mapping the physical indicators of beach processes, structure, and function | George Kaminsky | Washington Department of Ecology |
| | 10:15 - 10:30 | Messy is beautiful...isn't it? Understanding homeowner responses to shoreline restoration | Karin Strelieff | Thurston Conservation District |
| | 10:30 - 10:45 | Exploring Sense of Place and Shorelines in Puget Sound | David Trimbach | Department of Fisheries and Wildlife, Oregon State University |
| | 10:45 - 11:00 | Beach restoration and protection - Where do we go from here? | Andrea J. MacLennan | Herrera Environmental Consultants |
| | 11:00 - 11:15 | Using existing barriers to identify future opportunities and needs. | Lisa Kaufman | Northwest Straits Foundation |
| | 11:15 - 11:30 | Economic and Policy Implications for Coastal Housing Markets Facing Sea-level Rise and Erosion | Steve Dundas | Oregon State University |
| | 11:30 - 11:45 | Effectiveness of shoreline restoration for subtidal fishes in Puget Sound, WA | Tessa Francis | Puget Sound Institute |
| Beach Lounge and Break | 11:45 - 11:50 | Introduction to the Lounge | Summit Team | See above |
| | 11:50 - 12:50 | Lunch Break in the Beach Lounge | All | |
| Afternoon Presentations | 12:50 - 1:05 | The Vashon-Maury Experience: to Prioritize or Implement? | Kollin Higgins | King County Dept of Natural Resources and Parks |
| | 1:05 - 1:20 | Eroding cliffs, building community: using community science for shoreline armoring removal monitoring | Bianca Perla | Vashon Nature Center |
| | 1:20 - 1:35 | Beyond Broader Participation and Impacts | Melissa (Watkinson) Schutten | Washington Sea Grant |
| | 1:35 - 1:50 | Learning what is 'broken' on armored shorelines and how to fix them. | Megan Dethier | Friday Harbor Labs |
| | 1:50 - 2:05 | It's complicated: interpreting restoration effectiveness at two Puget Sound beaches | Hannah Faulkner | WA Dept. Of Fish and Wildlife |
| | 2:05 - 2:20 | Restoring "Living" to our Armored Shorelines | Jason Toft | University of Washington |
| Wrap-up | 2:20 - 2:30 | Closing Remarks for Day One Presentations | Summit Team | See above |



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Beach Presentation Schedule – Day Two

March 11, 2021 - 8:30 AM - 12:10 PM

[Zoom Registration Link](#)

| Topic | Time | Presentation Title | Speaker | Affiliation |
|---------------------------------------|---------------|--|-------------------------------------|--|
| Introduction | 8:30 – 8:40 | Welcome, Land Acknowledgement, Meeting Principles, and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| Morning Presentations Part One | 8:40 – 8:55 | What I learned on the way home from school--Puget Sound coastal restoration design considerations for the rest of the 21st century | Jim Johannessen | Coastal Geologic Services Inc |
| | 8:55 - 9:15 | Ecological and Social influences on Salmon Habitat Restoration Effort in the Puget Sound | Brittany King | Oregon State University |
| | 9:15 - 9:30 | Potential impacts of shoreline armoring on intertidal eelgrass populations in Central Puget Sound | Bart Christiaen | Washington Department of Natural Resources |
| | 9:30 - 9:45 | Nearshore Management Prioritization in the South Salish Sea | Brian McTeague | Squaxin Island Tribe: Natural Resources Department |
| | 9:45 – 10:00 | Expanding the market for residential sea level rise adaptation with new Shore Friendly incentives | Aimee Kinney | Puget Sound Institute |
| | 10:00- 10:15 | Intersection of science and opportunity: How Shore Friendly Kitsap projects rank on a local nearshore prioritization tool | Christina Kereki | Kitsap County |
| Break in Beach Lounge | 10:15 - 10:20 | Introduction to the Lounge | Summit Team | See above |
| | 10:10 – 10:45 | Morning Break in the Beach Lounge | All | |
| Morning Presentations Part Two | 10:45 - 11:00 | Greater than the sum of its parts: integrating nearshore restoration | Tina Whitman | Friends of the San Juans |
| | 11:00 - 11:15 | Towards an improved understanding of Salish Sea shorelines | Ian Miller | Washington Sea Grant |
| | 11:15 - 11:30 | Shoreline Armor Removal Fulfills Nearshore Ecosystem Restoration Following Large-Scale Dam Removal: Elwha Nearshore | Jamie Michel | Coastal Watershed Institute |
| | 11:30 - 11:45 | Green Shores® - a tool in the coastal resilience toolbox | DG Blair | Stewardship Centre for BC |
| | 11:45 - 12:00 | Advancing the Implementation of Local Shoreline Armoring Regulations | Sydney Fishman | Washington Department of Ecology |
| Wrap-up | 12:00 - 12:10 | Closing Remarks for Day Two Presentations | Summit Team | See above |
| Lunch | 12:10 – 1:00 | Lunch Break | All | |
| Discussion Session | 1:00 – 4:00 | <i>Invited* guests attend small discussion sessions to meet summit objectives</i> | <i>*Speakers and invited guests</i> | |



Delta Presentation Schedule – Day One

March 17, 2021 - 8:30 AM - 4:00 PM
Zoom Registration Link

| Topic | Time | Presentation Title | Speaker | Affiliation |
|---------------------------------------|---------------|---|--------------------|--|
| Introduction | 8:30 - 8:40 | Welcome, Land Acknowledgement, Meeting Principles and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| | 8:40 - 8:50 | Summit Background and Goals | Tish Conway-Cranos | WA Dept. Of Fish and Wildlife |
| | 8:50- 8:55 | Introduction to Deltas | Summit Team | See above |
| Morning Presentations Part One | 8:55 - 9:10 | Nisqually Delta restoration research and Chinook salmon recovery planning: state of the science | Melanie Davis | U.S. Geological Survey, Oregon Cooperative Fish and Wildlife Research Unit |
| | 9:10 - 9:25 | Nisqually Delta restoration research and Chinook salmon recovery planning: management implications | Chris Ellings | Nisqually Indian Tribe |
| | 9:25 - 9:40 | Skokomish Estuary Restoration Design and Implementation Adaptive and Functional Considerations | Joseph Pavel | Skokomish Tribe |
| | 9:40 - 9:55 | Skokomish Estuary Restoration | Lisa Belleveau | Skokomish Tribe |
| | 9:55 - 10:10 | Integrating Human Wellbeing in Puget Sound Restoration | Kelly Biedenweg | Oregon State University |
| Break | 10:10 - 10:25 | Break | All | |
| Morning Presentations Part Two | 10:25 - 10:40 | Applying tidal landform scaling to habitat restoration planning, design, and monitoring | Greg Hood | Skagit River System Cooperative |
| | 10:40 - 10:55 | Biological and physical effects of Self-Regulating Tide gates and implications for restoration planning | Jason Hall | Cramer Fish Sciences |
| | 10:55 - 11:10 | Mapping tidal connectivity barriers to support identification and evaluation of restoration opportunities | Shelby Burgess | Cramer Fish Sciences |
| | 11:10 - 11:25 | Understanding Shoreline Management Decisions and Incentivizing Living Shorelines Among Private Landowners in the Southeast U.S. | Steven Scyphers | Northeastern University |
| | 11:25 - 11:40 | Process-based models and studies of coastal change to inform habitat restoration and climate change adaptation. | Eric Grossman | U.S. Geological Survey Pacific Coastal and Marine Science Center |
| Delta Lounge and Break | 11:40 - 11:45 | Introduction to the Lounge | Summit Team | See above |
| | 11:45 – 12:45 | Lunch Break in the Delta Lounge | All | |



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Delta Presentation Schedule – Day One, Continued

March 17, 2021 - 8:30 AM - 4:00 PM
Zoom Registration Link

| | | | | |
|---|-------------|---|--------------------|---|
| Afternoon Presentations Part One | 12:45-1:00 | System wide patterns of Chinook salmon use and distribution and relevance to estuary restoration in the Snohomish delta | Josh Chamberlin | NOAA Fisheries, Northwest Fisheries Science Center |
| | 1:00 - 1:15 | A 20/21 Perspective on the Qwuloolt Estuary Restoration Project | Kurt Nelson | Tulalip Tribes |
| | 1:15 - 1:30 | Qwuloolt Restoration Project: Monitoring the Response to Restoration | Todd Zackey | Tulalip Tribes |
| | 1:30 – 1:45 | Smith Island and Mid-Spencer. Restoration and Enhancement in the Snohomish River Delta | Mike Rustay | Snohomish County |
| | 1:45- 2:00 | Smith Island Restoration Site Characteristics and Monitoring in the Snohomish Estuary | Frank Leonetti | Snohomish County Conservation and Natural Resources |
| | 2:00- 2:15 | Toxic contaminants: An under-appreciated barrier to “process based restoration” | Sandie O'Neill | Washington Department of Fish and Wildlife |
| Break | 2:15 - 2:30 | Break | All | |
| Afternoon Presentations Part Two | 2:30 – 2:45 | Avian Habitat Suitability Models for Puget Sound Estuary Birds | Trina Bayard | Audubon Washington/PSEMP Marine Birds WG |
| | 2:45- 3:00 | Assessing effects of estuarine restoration on bird populations in North Puget Sound | Gary Slater | Ecostudies Institute |
| | 3:00 - 3:15 | Integrating Climate Adaptation and Mitigation Measures into the Ecosystem Restoration Program for the lower Columbia River | Catherine Corbett | Lower Columbia Estuary Partnership |
| | 3:15 - 3:30 | Improving restoration success and resilience through reference-site research and experimentation: lessons from the Columbia River estuary | Amy Borde | Pacific Northwest National Laboratory |
| | 3:30 – 3:45 | Potential of Cumulative-Effects Research to Aid Restoration of Salmon-Habitat Functions of the Nearshore Salish Sea | Heida Diefenderfer | Pacific Northwest National Laboratory |
| Wrap-up | 3:45- 3:55 | Closing Remarks for Day One Presentations | Summit Team | See above |

Delta Presentation Schedule – Day Two

March 18, 2021 - 8:30 AM - 12:20 PM
Zoom Registration Link

| Topic | Time | Presentation Title | Speaker | Affiliation |
|---------------------|-------------|---|---------------|--|
| Introduction | 8:30 – 8:40 | Welcome, Land Acknowledgement, Meeting Principles and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| | 8:40 - 8:55 | Sediment accretion in the Stillaguamish River estuary | Katrina Poppe | Western Washington University |



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|---------------------------------------|---------------|--|--|--|
| Morning Presentations Part One | 8:55 - 9:10 | Multi-scale evaluation of Chinook salmon responses to estuary restoration in the Skagit tidal delta | Mike LeMoine | Skagit River System Cooperative |
| | 9:10 - 9:25 | Density-dependent habitat limitations for juvenile Chinook salmon in large river deltas of Puget Sound | Correigh Greene | NOAA Fisheries, NW Fisheries Science Center |
| | 9:25 - 9:40 | Complex Tools for a Complex Problem: Anthropology and Political Ecology in the Service of Salmon Recovery | Sara Breslow | University of Washington |
| | 9:40 - 9:55 | Prioritizing restoration actions by integrating best available science with multiple community interests and local knowledge | Jenny Baker | Washington Department of Fish and Wildlife |
| | 9:55 - 10:10 | Partnerships Matter – Lessons Learned from the Skagit HDM and Fir Island Farm Restoration Project | Jenna Friebe | Skagit Drainage and Irrigation Districts Consortium |
| Break in Delta Lounge | 10:10 - 10:15 | Introduction to the Lounge | Summit Team | See above |
| | 10:15 - 10:40 | Break in the Delta Lounge | | |
| Morning Presentations Part Two | 10:40 - 10:55 | Are you serious about salmon recovery in Puget Sound? | Monte Marti | Snohomish Conservation District, Retired |
| | 10:55 - 11:10 | Zeroing in on food web function; a landscape connectivity viewpoint | Emily Howe | The Nature Conservancy |
| | 11:10 - 11:25 | Lost in translation - closing the gap between stakeholders and scientists | Loren Brokaw | Washington Department of Fish and Wildlife |
| | 11:25 - 11:40 | Studies on the impacts of sea level rise on agricultural viability to inform estuary planning | Daniel Elefant, Cindy Dittbrenner and Bennett LaFond | Environmental Science Associates, Dittbrenner Consulting and Snohomish Conservation District |
| | 11:40 - 11:55 | The Benefits of Being the Dumbest in the Room | Jason Griffith | The Stillaguamish Tribe of Indians |
| | 11:55 - 12:10 | Restoration Surprises: The Roles of History, Climate Change, and Killer Moths | Roger Fuller | Padilla Bay National Estuarine Research Reserve |
| Wrap-up | 12:10 - 12:20 | Closing Remarks for Day Two Presentations | Summit Team | See above |
| Lunch | 12:20 - 1:00 | Lunch Break | All | |
| Discussion Session | 1:00 - 4:00 | <i>Invited* guests attend small discussion sessions to meet summit objectives</i> | <i>*Speakers and invited guests</i> | |



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Embayment Presentation Schedule – Day One

March 24, 2021 - 12:30 PM - 4:00 PM
Zoom Registration Link

| Topic | Time | Presentation Titles | Speaker | Affiliation |
|---|---------------|---|-----------------------------------|--|
| Introduction | 12:30 - 12:40 | Welcome, Land Acknowledgement, Meeting Principles and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| | 12:40 - 12:50 | Summit Background and Goals | Tish Conway-Cranos | WA Dept. Of Fish and Wildlife |
| | 12:50 – 1:00 | Introduction to Embayments | Summit Team | |
| Afternoon Presentations Part One | 1:00 - 1:15 | Where are the fish? Articulating natal and non-natal fish benefits to justify large capital investments in estuary restoration projects | Kristin Williamson | South Puget Sound Salmon Enhancement Group |
| | 1:15 - 1:30 | Non-natal estuary and small stream rearing of juvenile Chinook salmon associated with inland marine waters of northern Puget Sound | Eric Beamer | Skagit River System Cooperative |
| | 1:30 – 1:45 | Juvenile salmon movement related to the tide cycle: a study to inform tidal fish passage in Puget Sound | Doris Small and Pad Smith | Washington Department of Fish and Wildlife |
| | 1:45- 2:00 | Using Hydrodynamic Modeling to Improve Embayment Restoration Options without Breaking the Bank | Kathy Ketteridge | Blue Coast Engineering |
| Break | 2:00 - 2:25 | Break | All | |
| | 2:25 – 2:40 | Barrier embayment restoration planning: two examples from West Sound | Sarah Heerhartz | Mid-Sound Salmon Enhancement Group |
| | 2:40 - 2:55 | Bridging Worldviews in the Salish Sea | Jennifer Arnold and Althea Wilson | Reciprocity Consulting and Northwest Indian College |
| | 2:55 – 3:10 | Criteria for restoring the primary tidal channel in barrier embayment systems | Jessica Cote | Blue Coast Engineering |
| | 3:10 - 3:25 | Seagrass restoration: some success with challenges ahead | Jeff Gaeckle | Nearshore Habitat Program, Washington State Department of Natural Resources |
| Wrap-up | 3:25 - 3:30 | Closing Remarks for Day One Presentations and Introduction to Lounge | Summit Team | See above |
| Embayment Lounge | 3:30 - 4:00 | Break in the Embayment Lounge | All | |



Embayment Presentation Schedule – Day Two

March 25, 2021 - 9:30 AM - 12:30 PM
Zoom Registration Link

| Topic | Time | Presentation Titles | Speaker | Speaker Affiliation |
|---------------------------------------|---------------|--|-------------------------------------|--|
| Introduction | 9:30– 9:40 | Welcome, Land Acknowledgement, Meeting Principles and Zoom Instructions | Summit Team | WA Dept. Of Fish and Wildlife, University of Washington, Oregon State University |
| Morning Presentations Part One | 9:40 - 9:55 | Restoration Planning along the Railroad | Paul Schlenger | Environmental Science Associates (ESA) |
| | 9:55 – 10:10 | Indigenous Shoreline Management in the Salish Sea: The View from Archaeology | Colin Grier | Washington State University, Dept of Anthropology |
| | 10:10- 10:25 | Mapping Nearshore Nodal Habitats | Hans Daubenberger | Port Gamble S'Klallam Tribe |
| | 10:25 - 10:40 | How can we show our impacts on Salmon Recovery? | Mendy Harlow | Hood Canal Salmon Enhancement Group |
| Break | 10:40 - 10:50 | Break | All | |
| Morning Presentations Part Two | 10:50 – 11:05 | Re-imagining nearshore restoration: three crazy concepts for the 21st century | Peter Bahls | Northwest Watershed Institute |
| | 11:05 - 11:20 | Access to recreational shellfish and its implications for environmental justice in the Puget Sound | Brian Katz | Oregon State University |
| | 11:20 - 11:35 | The duty and burdens of supporting the development and implementation of significant, impactful restoration on multiple scales | Alicia Olivas | Hood Canal Coordinating Council |
| | 11:35 - 11:50 | Hood Canal Summer Chum Use of Nearshore Embayment Habitats | Micah Wait | Wild Fish Conservancy |
| Wrap-up | 11:50 – 12:00 | Closing Remarks for Day Two Presentations and Introduction to Lounge | Summit Team | See above |
| Embayment Lounge | 12:00 - 12:30 | Break in the Embayment Lounge | All | |
| Lunch | 12:30 – 1:00 | Lunch Break | All | |
| Discussion Session | 1:00 – 4:00 | <i>Invited* guests attend small discussion sessions to meet summit objectives</i> | <i>*Speakers and invited guests</i> | |



Speaker Biographies

Jennifer Arnold, Ph.D., Reciprocity Consulting, LLC

jennifer@reciprocityconsulting.com

Jennifer Arnold, Ph.D. leads applied research, facilitation and training to help groups learn together and make decisions together in the context of complex social-ecological challenges. Her work embraces diverse ways of knowing and the power of engaging people most impacted by policies and decisions.

Eric Beamer, Skagit River System Cooperative

ebeamer@skagitcoop.org

I am the Research Director for Skagit River System Cooperative, where I've worked examining salmon freshwater, estuarine, and nearshore ecology since 1984. I'm the principal investigator in the following fields of research: landscape processes influencing habitat conditions, identification of juvenile Chinook salmon life history patterns, identification of factors influencing wild Chinook salmon production, use of natal estuaries, non-natal estuaries & small streams by juvenile Chinook salmon, and monitoring effectiveness of estuary restoration projects for Chinook salmon recovery.

Peter Bahls, Northwest Watershed Institute

peter@nwwatershed.org

Peter is the Director of Northwest Watershed Institute. He earned an M.S. in Fisheries Science and Aquatic Ecology from Oregon State University and has been focused on researching, protecting and restoring Tarboo Creek and Dabob Bay for nearly 20 years.

Lisa Belleveau, Skokomish Tribe

lbelleveau@skokomish.org

Lisa is the habitat biologist for the Skokomish Tribe. She has a Bachelor of Science and a Master of Environmental Studies degree from the Evergreen State College. Previous to working for the Skokomish Tribe she worked with the Nisqually Delta Restoration monitoring team. She has over 10 years of monitoring experience focused on documenting changes associated with estuary restoration.

Jenny Baker, Washington Department of Fish and Wildlife

jenny.baker@dfw.wa.gov

Jenny works for Washington Department of Fish and Wildlife planning and implementing estuary restoration projects. She has been involved in all phases of floodplain and estuary restoration since 1998. She earned a B.S. in natural science from University of Puget Sound and M.S. in environmental science from Western Washington University.

Kelly Biedenweg, Oregon State University

kelly.biedenweg@oregonstate.edu

Kelly Biedenweg is an Assistant Professor of Human Dimensions at Oregon State University and a member of the PSP Science Panel.

Trina Bayard, Audubon Washington/PSEMP Marine Birds WG

trina.bayard@audubon.org

Trina Bayard is Director of Bird Conservation at Audubon Washington and Coordinator for the PSEMP Marine Birds Work Group.

DG Blair, Stewardship Centre for BC

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DG Blair, B.Sc. M.Sc. As the Executive Director of the Stewardship Centre for BC, DG Blair provides leadership and project management for delivery of stewardship projects and resources to audiences throughout BC and across Canada. With deep experience in science-based best management practices for land and water, DG has been instrumental in the development, application, and proliferation of the Green Shores program, an incentive-based credit and rating system for minimizing the impact of new shoreline developments as well as restoring the shoreline ecosystem function of previously developed sites. She has co-authored numerous publications on Green Shores; is a member of Natural Resources Canada's national Coastal Management Working Group; manages the Green Shores Local Government Working Group; and provides overall project management for Green Shores in Canada: coast to coast to coast.



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Sara Breslow, University of Washington

sarajo@uw.edu

Sara Breslow is an environmental anthropologist and transdisciplinary interested in collaborating across disciplines and partnering with local communities to address complex challenges in the human-nature relationship. In her empirical research, Sara uses ethnographic and mixed methods to study senses of place, environmental conflict, and human well-being with a focus on the Salish Sea region. She has worked to develop foundational concepts, build institutional capacity, and promote policies that advance sustainability and social justice in a variety of positions locally and abroad, including at UW EarthLab, NOAA, IPBES, the Western Governors' Association, The Puget Sound Partnership, and The Nature Conservancy.

Bart Christiaen, Washington Department of Natural Resources

bart.christiaen@dnr.wa.gov

Bart Christiaen is the current lead of DNR's eelgrass monitoring program (SVMP). He has been in this position since November 2014. Bart has a PhD in Marine Science from the University of South Alabama, and a Masters in Oceanography from the University of Liege, Belgium.

Loren Brokaw, Washington Department of Fish and Wildlife

loren.brokaw@dfw.wa.gov

Loren is a Restoration Project Coordinator for WDFW in the North Puget Sound region, working on projects on WDFW-owned lands. He has worked in the position for almost 10 years.

Catherine Corbett, Lower Columbia Estuary Partnership

ccorbett@estuarypartnership.org

Catherine joined the Estuary Partnership in 2008 and led the development of habitat coverage targets and shift towards climate-smart conservation programming. Before that she served as the Senior Scientist for the Charlotte Harbor NEP, worked for International Union for the Conservation of Nature in Washington DC, and as a wildlife biologist in the Middle Atlas Mountains of Morocco.

Shelby Burgess, Cramer Fish Sciences

shelby.burgess@fishsciences.net

Shelby is a fisheries biologist at Cramer Fish Sciences where she helps to lead and execute large-scale habitat assessments and restoration monitoring projects across the Puget Sound and Columbia River Basin. Her work focuses on utilizing field and GIS techniques for riverine and nearshore ecological assessments and habitat mapping and restoration planning.

Jessica Cote, Blue Coast Engineering

jessica@gobluecoast.com

Jessica is a Coastal Engineer and Geomorphologist who has been conducting research on the dynamics of Puget Sound beaches for 15 years. She has been applying her expertise in sediment transport to determine the key design considerations for re-opening and restoring tidal channels in barrier embayment systems over the last 4 years.

Joshua Chamberlin, NOAA Fisheries, Northwest Fisheries Science Center

joshua.chamberlin@noaa.gov

My research has focused on juvenile salmon ecology in estuarine and nearshore marine habitats in the Snohomish estuary and greater Puget Sound since I began working at NWFSC in 2005. I am primarily interested in how habitat and species interactions influence behavior, growth, and survival of Chinook salmon and how restoration enhances these traits during early life history.

Hans Daubenberger, Port Gamble S'Klallam Tribe

hans@pgst.nsn.us

Hans Daubenberger, since 2006 Hans has been a research scientist with the Port Gamble S'Klallam Tribe. His work has focused on projects intended to provide information, opportunity, and direction to the restoration community, fisheries management, and the fishers of the Port Gamble S'Klallam Tribe.



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Melanie Davis, U.S. Geological Survey, Oregon Cooperative Fish and Wildlife Research Unit

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Melanie Davis is currently Assistant Unit Leader for the Oregon Cooperative Fish and Wildlife Research Unit in Corvallis, Oregon. Prior to that, she was project coordinator for the USGS Western Ecological Research Center's Olympia Substation for about seven years. Her most recent work has examined the role of estuarine habitat diversity in supporting juvenile salmon during their out-migration. Her broader research interests include aquatic food webs, disturbance ecology, and ecosystem resilience to climate change.

Daniel Elefant, Environmental Science Associates

DElefant@esassoc.com

Dan Elefant is a senior restoration engineer with Environmental Science Associates (ESA). For this work, he completed technical analysis for sea level rise impacts to groundwater ponding and salinity intrusion. He is interested in constructing river and estuary projects that provide great salmon habitat while planning for future agricultural production resiliency.

Megan Dethier, Friday Harbor Labs

mdethier@uw.edu

Dr. Megan N. Dethier is Director of the Friday Harbor Laboratories, University of Washington, and is also a Research Professor in the Biology Department. She did her undergraduate work at Carleton College in Minnesota, then PhD work at the University of Washington. Since ~1978 she has been in working on the shoreline ecology of the Pacific Northwest.

Christopher Ellings, Nisqually Indian Tribe

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Christopher Ellings manages the Nisqually Indian Tribe Salmon Recovery Program which is dedicated to recovering all species of Nisqually salmon and the habitat that they depend on.

Heida Diefenderfer, Pacific Northwest National Laboratory

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Dr. Heida Diefenderfer, Restoration Ecologist, is affiliated with Pacific Northwest National Laboratory's Marine and Coastal Research Lab, Sequim, WA, and the University of Washington College of the Environment, School of Environmental and Forest Sciences, Seattle, WA.

Hannah Faulkner, Washington Department of Fish and Wildlife

hannah.faulkner@dfw.wa.gov

Hannah Faulkner is a lead nearshore ecologist with Habitat Science Division. She contributes to the scientific foundation for WDFW's management decisions and technical assistance, including development of knowledge to inform land-use and monitoring of Puget Sound nearshore ecosystems and beach habitats.

Cynthia Dittbrenner, Cynthia Dittbrenner Consulting

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Cynthia served as the lead for development of the Agriculture Resilience Plan in her past role as Restoration and Floodplains Director for the Snohomish Conservation District. She has a masters in Ecology and Soils from UW and 20+ years of experience in restoration, agricultural resilience and climate change adaptation.

Sydney Fishman, Washington Department of Ecology

syfi461@ecy.wa.gov

Sydney Fishman is the Shoreline Armoring Planning Associate at the Washington Department of Ecology. She assists local governments and Department of Ecology staff with review of shoreline stabilization projects under local Shoreline Master Programs, and supports regional efforts to address shoreline armoring and improve the health of Puget Sound shorelines.

Steven J. Dundas, Oregon State University

steven.dundas@oregonstate.edu

Steve is an environmental economist with a research focus on non-market valuation, coastal ecosystem services, adaptation to climate change, and environmental policy evaluation. He is currently an Assistant Professor at Oregon State University in the Department of Applied Economics and the Coastal Oregon Marine Experiment Station.

Jenna Friebel, Skagit Drainage and Irrigation Districts Consortium

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Jenna has over 20 years of experience working as a hydrologist and project manager. Her work has focused on hydrologic analysis, restoration planning, design and construction.



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Roger Fuller, Padilla Bay National Estuarine Research Reserve
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Roger Fuller coordinates habitat restoration, stewardship, and related research at the Padilla Bay National Estuarine Research Reserve.

Jason Griffith, The Stillaguamish Tribe of Indians
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Jason has worked for the Stillaguamish Tribe for the past 20 years on a wide variety of Chinook related projects. Over the past decade he has focused on protecting and restoring land from the estuary to the spawning grounds.

Jeff Gaeckle, Nearshore Habitat Program, Washington State Department of Natural Resources

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While Jeff completed his dissertation at the University of New Hampshire, he worked on eelgrass restoration and monitoring projects throughout the northeastern US and traveled the world monitoring seagrass distribution and status for SeagrassNet, a global seagrass monitoring project. Jeff joined the Washington State Department of Natural Resources in 2006 as a seagrass ecologist and leads DNR's Eelgrass Stressor-Response Program with a focus on eelgrass restoration among other seagrass research throughout Puget Sound.

Eric Grossman, U.S. Geological Survey Pacific Coastal and Marine Science Center

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Eric Grossman is a Research Geologist who leads the USGS Coastal Habitats in Puget Sound (CHIPS) Project and development of the Puget Sound Coastal Storm Modeling System (PS-CoSMoS). His research focuses on sediment transport and coastal change to inform how coastal habitats are influenced by hydrodynamics and sediment and how their structure and function along with restoration outcomes will respond to changes in sea level, climate and land use.

Correigh Greene, NOAA Fisheries, NW Fisheries Science Center

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I have been studying salmon and associated species in the estuary and nearshore since I started work at the Science Center as a biologist in 2001. While working at the Science Center, I have co-lead the Skagit Intensively Monitored Watershed Project examining how estuary restoration is benefiting juvenile Chinook salmon, and have been part of the Salish Sea Marine Survival Project examining multiple causes of declines in marine survival of Coho and Chinook salmon since the 1980's.

Jason Hall, Cramer Fish Sciences

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Jason is a Senior Scientist with Cramer Fish Sciences and he has over 18 years of experience in fisheries research and restoration effectiveness and status and trends monitoring. His research has focused on developing and implementing regional scale status and trends monitoring data to support salmon recovery planning and evaluation.

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Colin Grier is an archaeologist and an Associate Professor in the Department of Anthropology at Washington State University. His research focuses on Coast Salish resource management strategies, the construction of cultural keystone places, and how these practices relate to social change. His research takes a long-term perspectives, drawing heavily on the archaeological record of the Salish Sea over the last 10,000 years.

Mendy Harlow, Hood Canal Salmon Enhancement Group

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The majority of Mendy's time with HCSEG has been focused on managing small and large scale habitat restoration projects throughout Hood Canal. She became the executive director in 2013, but has not left her passion for managing meaningful restoration projects behind.



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Sarah Heerhartz, Mid Sound Fisheries Enhancement Group
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As the executive director of the Mid Sound Fisheries Enhancement Group, I lead a small (growing!) and dedicated staff in coordinating habitat restoration and conservation projects with local and tribal governments and agencies, other nonprofits, community groups, and landowners across marine, estuarine and freshwater habitats of the central Puget Sound region. My priority beyond the execution of these projects, is to build community around habitat restoration and salmon recovery for the benefit of the vibrant and diverse landscapes, wildlife, and people of the Puget Sound region.

Jim Johannessen, Coastal Geologic Services Inc.
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Jim specializes in beach and estuarine processes, coastal erosion mitigation, coastal restoration, and applied coastal management. He has designed hundreds of beach nourishment and estuary restoration/enhancement projects, including over 40 armor removal projects, throughout Puget Sound and the Salish Sea.

Kollin Higgins, King County Dept of Natural Resources and Parks
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Kollin Higgins is a Senior Ecologist with King County where he has worked for the last 20 years on salmon recovery efforts throughout the County, with an emphasis in the Green-Duwamish watershed and its marine shoreline. He has also worked on regulatory issues like the Shoreline Master Plan and Comprehensive Plan as well as evaluating the effectiveness of regulations to protect marine shorelines.

George Kaminsky, Washington State Department of Ecology
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Dr. George Kaminsky is a senior coastal engineer with 30 years of applied research experience in coastal engineering and geomorphology with expertise in coastal processes, morphology change, sediment budgets, and nature-based engineering design

Greg Hood, Skagit River System Cooperative
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My work focuses on the interaction between geomorphology and ecology in tidal wetlands with application to habitat restoration and recovery of threatened Chinook salmon. I have been working for thirty years in Pacific Northwest wetlands, with experience ranging from the Columbia River Estuary to the Yukon-Kuskokwim Delta. I have a PhD from the UW School of Fisheries and MS from FSU where I studied myrmecology.

Brian Katz, Oregon State University
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Brian Katz recently graduated with his M.S. in Geography from Oregon State University, where he now works as a research assistant to David Wrathall and Kelly Biedenweg. Brian creates geovisualization tools to advance research and action at the intersection of human well-being, climate change adaptation, and environmental justice.

Emily Howe, The Nature Conservancy
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Emily Howe PhD is an aquatic and estuarine ecologist at The Nature Conservancy. Her work focuses on estuarine restoration, food web connectivity, and climate adaptation pathways for freshwater and estuarine systems.

Lisa Kaufman, Northwest Straits Foundation
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Lisa has been managing nearshore restoration projects and shoreline landowner outreach at the Northwest Straits Foundation since 2013. Before joining the Foundation, Lisa spent over nine years as the Restoration Program Manager at the Washington Department of Natural Resources where she led shoreline restoration projects and the regional creosote removal program.



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Christina Kereki, Kitsap County

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Christina Kereki, a projects planner with Kitsap County, coordinates the Shore Friendly Kitsap program and other County nearshore projects. Her interest in restoration and applied ecology began with a fervor for field biology (favorite projects: marbled murrelets, Vancouver Island water shrews). BSc, Biology, University of Victoria. Master of Resource and Environmental Management, Simon Fraser University.

Michael LeMoine, Skagit River System Cooperative

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I am community and population ecologist interested in life history tradeoffs as they promote population resilience.

Kathy Ketteridge, Blue Coast Engineering LLC

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Dr. Ketteridge has more than 20 years of experience in hydrodynamic analysis/modeling and design of a wide variety of habitat restoration projects in coastal, estuarine, and riverine environments. She has spent the last 13 years of her career working on restoration projects in the Pacific Northwest region.

Frank Leonetti, Snohomish County Conservation and Natural Resources

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Frank works with the Resource Monitoring team to assess and interpret the status of and changes in stream, river, estuary, and nearshore habitat conditions. This work informs environmental planning and prioritization, conservation project development, and post-project evaluation at Snohomish County.

Brittany King, Oregon State University

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Brittany King is an interdisciplinary social scientist whose research interests lie in the human dimensions of fisheries science, and diversity and inclusion. She is currently a Ph.D. candidate in the department of Fisheries and Wildlife at Oregon State University, where her research examines underrepresented racial and ethnic groups in marine and fisheries science professions.

Andrea J. MacLennan, Herrera Environmental Consultants

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Andrea is a coastal geomorphologist that has been working to better understand nearshore ecosystem processes in Puget Sound for over 20 years. She has developed several nearshore geospatial data sets that can be used in Puget Sound recovery, shoreline management and sea level rise planning.

Aimee Kinney, Puget Sound Institute

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Aimee is a researcher for Puget Sound Institute at UW Tacoma. She provides analysis of existing programs and policies to support implementation of National Estuary Program recovery plans.

Monte Marti, Retired, Snohomish Conservation District; Alliance of Puget Sound Natural Resources

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Monte has spent over 35 years working with tribes, agencies, NGO, and private landowners on solutions to tough natural resource issues. Monte was on the Executive Committee for the Snohomish Sustainable Lands Strategy effort, and was also highly active in implementation of and advocacy for the salmon recovery plans, Floodplains by Design and other initiatives that intersect with private landowners and community engagement.

Bennett LaFond, Snohomish Conservation District

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Bennett LaFond recently joined Snohomish Conservation District as the Agriculture and Floodplains Resilience Project Manager. Along with a background working on farms and vineyards, Bennett brings over seven years managing agricultural resilience and economic growth projects in the US and abroad. He has an MS in Plant and Soil Science from the University of Vermont with a focus in Agroecology and the intersection of agricultural, ecological, and social systems.

Brian McTeague, Squaxin Island Tribe: Natural Resources Department

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Brian provides spatial database management, field data collection activity deployment, and analysis, mapping, application development & generalized GIS support to all Natural Resources Department programs. Brian is also a certified drone pilot & recently passed his GIS Professional certification exam.



Jamie Michel, Coastal Watershed Institute
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Jamie Michel is a Conservation and Restoration Biologist, currently working to understand, protect and restore marine shorelines on the Strait of Juan de Fuca. Jamie’s work with the Coastal Watershed Institute includes researching the response of biological communities and physical processes to shoreline restoration. Jamie earned a M.S. in Environmental Science from Huxley College at Western Washington University and lives and works in Port Angeles.

Sandie O’Neill, Washington Department of Fish and Wildlife
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Sandie O’Neill is a senior Research Scientist with the Washington Department of Fish and Wildlife. She investigates the health of the Puget Sound ecosystem, with a primary focus on the role of contaminants on marine biota, including the influence of fish life history on contaminant accumulation, the flow of contaminants through the aquatic food web, and the effects of toxic substances on ecological and human health. She received her B.Sc. in Zoology from Memorial University of Newfoundland in 1981 and her M.Sc. in Zoology from the University of British Columbia in 1986.

Ian Miller, Washington Sea Grant
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Dr. Ian Miller is Washington Sea Grant’s coastal hazards specialist, working out of Peninsula College in Port Angeles. Ian works with coastal communities and public agencies on the Olympic Peninsula to strengthen their ability to plan for and manage coastal hazards, including tsunamis, chronic erosion, coastal flooding and other hazards associated with climate change.

Bianca Perla, Vashon Nature Center
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Bianca is the founder and director of Vashon Nature Center--a nonprofit organization conducting research, education and community science on Vashon-Maury Island.

Kurt Nelson, Tulalip Tribes
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I have been employed by the Tulalip Tribes as a fisheries biologist and an environmental manager for 34 year and have technical expertise in aquatic ecology, habitat restoration, water quality, fisheries, fluvial geomorphology, and hydrology. I have a Bachelor of Science degree in Fisheries Biology from the University of Minnesota, and a Master of Science in Wildland Hydrology, from the University of Washington.

Katrina Poppe, Western Washington University
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Katrina Poppe is an estuarine ecologist with a focus on sediment dynamics and carbon sequestration, often in relation to restoration. She works as a Research Associate with the Wetlands Ecology Lab at Western Washington University in Bellingham, WA.

Alicia Olivas, Hood Canal Coordinating Council
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Alicia works with community stakeholders, citizens, partner organizations, and member governments to assure sound science and community values guide the implementation of salmon recovery projects in the Hood Canal region.

Mike Rustay, Snohomish County Dept. of Conservation and Natural Resources
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Mike Rustay is a Senior Habitat Specialist with Snohomish County DNRC, Surface Water Management Division. Mike has been involved in Salmon Recovery planning and science in the Snohomish Basin since 2000.



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Paul Schlenger, Environmental Science Associates (ESA)

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Paul is a principal fisheries biologist working at ESA. He has been working on nearshore assessment and restoration throughout his career.

Doris Small, Washington Department of Fish and Wildlife

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Doris has worked as a fish habitat biologist with WDFW for over 30 years, focusing on nearshore and estuarine habitat protection and restoration projects.

Melissa (Watkinson) Schutten, Washington Sea Grant

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Melissa (Watkinson) Schutten (she/her) is a citizen of the Chickasaw Nation and also descends from the Choctaw Nation of Oklahoma. Melissa considers the Salish Sea her home, where she works as the equity, access and community engagement lead with Washington Sea Grant to ensure equitable and inclusive access to the marine environment and workforce. Melissa has a master's degree in policy studies from the University of Washington Bothell.

Pad Smith, Washington Department of Fish and Wildlife

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Pad has worked professionally in the water resources industry for nearly 25 years and is currently a fish passage and habitat restoration engineer with WDFW. Pad has a strong background in hydraulics and hydrology, geomorphology of riverine and marine systems, as well as many years' experience with fish passage.

Steven Scyphers, Northeastern University

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Steven Scyphers is an Assistant Professor in the Department of Marine and Environmental Sciences and Affiliated Faculty in the Department of Sociology and Anthropology at Northeastern University. Steven's research integrates ecology and sociology and focuses on sustainable shorelines, fisheries, ecosystem restoration, and climate adaptation.

Karin Strelieff, Thurston Conservation District

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Karin Strelieff is the Conservation Program Manager at Thurston Conservation District and she coordinates the South Sound Shore Friendly partners (Thurston, Pierce and Mason Conservation Districts), who work collaboratively to support nearshore stewardship by waterfront homeowners. Karin has worked in South Puget Sound for over 16 years, designing and implementing voluntary restoration projects with private landowners.

Hugh Shipman, Retired, Washington Department of Ecology

Hugh retired from the Washington Department of Ecology in 2019, after thirty years as a coastal geologist. His interests include the geomorphology of Puget Sound beaches, the impacts of shoreline modifications, and the geologic aspects of coastal restoration. He was a member of the PSNERP Nearshore Science Team and contributed to several reports on nearshore processes and restoration. He has helped ESRP on both program strategy and the review of individual restoration projects. For twelve years, Hugh posted photos of beaches on his Gravel Beach blog, though since retirement, he's really slacked off. Hugh received his BA from Dartmouth in 1981 and his MS from the University of Washington in 1986. He's been spending his retirement on his bike and in his wood shop.

Jason Toft, University of Washington

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Jason Toft is a senior research scientist at the University of Washington School of Aquatic and Fishery Sciences, focusing on nearshore restoration and effects of shoreline armoring in Puget Sound.

Gary Slater, Ecostudies Institute

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Gary's passion for birds began as a child watching chickadees at the family bird feeder. He received a B.S. in Wildlife Science from Purdue University and a M.S. in Wildlife Ecology from the University of Florida.

David J. Trimbach, Department of Fisheries and Wildlife, Oregon State University

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Dr. David J. Trimbach is an interdisciplinary social scientist with a background in human geography. He is currently a Postdoctoral Research Associate in the Department of Fisheries and Wildlife at Oregon State University and is housed at the Puget Sound Partnership in Tacoma, Washington.



Micah Wait, Wild Fish Conservancy

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Micah is an ecologist and Conservation Director for Wild Fish Conservancy. His work is focused on the science of habitat restoration for salmon recovery.

Tina Whitman, Friends of the San Juans

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Tina is staff scientist for Friends of the San Juans where she has managed shoreline habitat research, restoration and protection programs since 2002. Tina received an MS from the University of Oregon and has worked in coastal habitat conservation in New England and the Pacific Northwest. Tina lives on Orcas Island with her family and is happiest on a beach, for work or play.

Kristin Williamson, South Puget Sound Salmon Enhancement Group

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Kristin Williamson has been working as a Salmon Restoration Biologist and Project Manager for the South Puget Sound Salmon Enhancement Group since 2005. She lives and works in Pierce County in the Puyallup-White and Chambers-Clover watersheds and she manages all phases of restoration projects from identification to implementation, across ecosystem boundaries from the headwaters to the Puget Sound.

Althea Wilson, Northwest Indian College

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Althea Wilson is a Native American environmental scientist, basket weaver and filmmaker from the Lummi Nation. Her work focuses on indigenous knowledge in the Salish Sea, social justice and wellness.

Todd Zackey, Tulalip Tribes

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Todd has been working at Tulalip for 18 years and is the program manager for the Tulalip Tribes Natural resources Marine and Nearshore Program. His work has been focused on restoration monitoring of the Qwuloolt Restoration Project and use of the Snohomish estuary by juvenile salmon.



Acknowledgements

Land Acknowledgment:

We acknowledge that the land upon which we live and work is part of the Coast Salish traditional homelands. The Coast Salish Peoples have resided on and stewarded this land from time immemorial and still thrive today. We respect and uphold the Indigenous communities and sovereign tribal nations as knowing bodies and defining partners in our effort to improve the integrity and resilience of ecosystem processes that support environmental and human health and wellbeing.

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We would like to recognize the following teams for their strong support in the development and delivery of the Summit. Thank you for your contribution!

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Top left: Fir Island Farms, Hannah Faulkner (WDFW)

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Summit Synthesis

Next Steps: Nearshore Summit Synthesis

Summit proceedings development and PSEMP Nearshore workgroup review will occur in Spring-Summer 2021, with final proceedings to be released in Fall 2021.

