



# 2023 Pacific Coast Steelhead Management Meeting

Agate Beach Inn Best Western  
Newport, Oregon  
March 14-16, 2023

## Monday, March 13, 2023

3:00 – 6:00 pm	Registration/M meal Tickets – Foyer
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## Tuesday, March 14, 2023

6:30 – 8:00 am	Registration/M meal Tickets – Foyer
6:45 – 8:00 am	Breakfast – Jasper/Onyx Rooms
8:00 – 8:10 am	<b>Welcome, Introductions &amp; Housekeeping Items</b> Barry Thom, Executive Director - Pacific States Marine Fisheries Commission Roger Harding, 2023 Steelhead Meeting Chair
8:10 – 10:10 am	<b>Session One – Steelhead Stock Status Review</b> <b>Chair: Patrick Fowler, Alaska Department of Fish and Game (ADFG)</b> 8:10 California – Robyn Bilski, California Department of Fish and Wildlife (CDFW) 8:30 Oregon – Jamie Anthony, Oregon Department of Fish and Wildlife (ODFW) 8:50 Idaho – Alan Byrne, Idaho Department of Fish and Wildlife (IDFG) 9:10 Washington – Neala Kendall, Washington Department of Fish and Wildlife (WDFW) 9:30 British Columbia – Robert Bison, Fish and Wildlife Branch, Ministry of Forests (MOF) 9:50 Alaska – Craig Schwanke, Alaska Department of Fish and Game (ADFG) 10:10 Discussion/Questions (10 minutes)
10:20 – 10:40 am	Break - 20 minutes
10:40 – 12:00 pm	<b>Session Two - Drought and Climate Session and Local Focus Session</b> <b>Chairs: Robyn Bilski (CDFW) and Jamie Anthony (ODFW)</b> <b>Facilitator: Robyn Bilski (CDFW) (Drought and Climate)</b> 10:40 Statewide Drought Management and Monitoring Actions for Salmonids in California - Jonathan Nelson, CDFW 11:00 Developing a Drought Monitoring Protocol for Juvenile Salmonids on the Mendocino Coast - Brianna Ordnung, CDFW 11:20 Prolonged drought and southern steelhead. Impacts, mitigation, and resiliency – Hayley Sue, CDFW
	<b>Facilitator: Jamie Anthony (ODFW) (Local Focus)</b> 11:40 Smallmouth Bass-Steelhead Interaction Monitoring in John Day River Tributaries - Lizz Blackburn, ODFW

<b>12:00 – 1:15 pm</b>	<b>Lunch Break – Jasper/Onyx Rooms</b>
1:15 – 2:55 pm	<p><b>Session Two - (Continued) Drought and Climate Session and Local Focus Session</b>  <b>Chairs: Robyn Bilski (CDFW) and Jamie Anthony (ODFW)</b>  <b>Facilitator: Jamie Anthony (ODFW) (Local Focus)</b></p> <p>1:15 Habitat Restoration and Resilience in the Face of Climate Extremes, Lessons from the Bridge Creek Intensively Monitored Watershed - Nick Weber, Eco Logical Research</p> <p>1:35 Hold on, I just need a minute to chill out in Drano Lake (Deschutes Steelhead) – Logan Breshears, ODFW</p> <p>1:55 Thermally suitable or thermally stressful: physiological tolerance of summer steelhead - Kara Anlauf-Dunn, ODFW</p> <p>2:15 Climate Angling Framework for Inland Fisheries in Oregon - Gregg Smith, ODFW</p> <p>2:35 Discussion/Questions (15 minutes)</p>
<b>3:00 – 3:15 pm</b>	<b>Break –15 minutes</b>
3:15 – 5:00 pm	<p><b>Session Three - Ocean, Climate and Migration Session:</b>  <b>Chair Brian Marston, (ADFG, Retired)</b></p> <p>3:15 Ocean migrations and behavior of steelhead kelts from Situk River, Alaska - Michael Courtney, University of Alaska Fairbanks</p> <p>3:35 Phenological mismatches and marine survival in steelhead trout - Sam Wilson, Salmon Watersheds Lab, Simon Fraser University</p> <p>3:55 Spatial distribution and mortality mechanisms of post-spawn steelhead kelts in the Northeast Pacific - Trevor Davies, Fish and wildlife Branch, British Columbia Ministry of Forests</p> <p>4:15 Tracking iteroparity: Trends and movement patterns for repeat spawning steelhead on the Washington Coast - James P. Losee, WDFW</p> <p>4:35 Marine heatwaves in the Northern California current: Impacts on early marine steelhead diet composition, morphology, and potential survival - Elizabeth Daly, Oregon State University</p> <p>4:55 Discussion/Questions (5 minutes)</p>
<b>5:30 –8:00 pm</b>	<b>Evening Social and Poster Session – Jasper/Onyx Rooms</b>

## Wednesday, March 15, 2023

<b>6:30 – 8:00 am</b>	<b>Registration – Foyer</b>
<b>6:45 – 8:00 am</b>	<b>Breakfast – Jasper/Onyx Rooms</b>
8:00 – 10:15 am	<p><b>Session Four – Managing Sensitive Populations of Steelhead: Tools, Approaches, and Challenges</b>  <b>Part 1: Management Tools Available</b>  <b>Chairs: Thomas Buehrens (WDFW), Neala Kendall (WDFW), and Bethany Craig (WDFW) and Kevin Goodson (Retired ODFW)</b>  <b>Facilitator: Bethany Craig, WDFW</b></p> <p>8:00 Introduction to today's session and session components - Bethany Craig, WDFW</p> <p>8:05 Development of e-Creel for Steelhead: monitoring harvest and release of steelhead in Oregon's recreational fisheries - Brian Riggers, ODFW</p>

	<p>8:35 The quest for fisheries-specific steelhead hooking mortality estimates - Ian Courter, Mt. Hood Environment</p> <p>8:55 Introduction to Structured Decision-Making - Sarah Converse, USGS WA Coop Research Unit - UW</p> <p>9:35 Using a newly developed integrated population model to evaluate alternative management strategies for WA coastal steelhead - Jan Ohlberger, WDFW</p>
<b>10:15 – 10:30 am</b>	<b>Break – 15 minutes</b>
10:30 – 12:05 pm	<p><b>Session Four – Managing Sensitive Populations of Steelhead: Tools, Approaches, and Challenges</b></p> <p><b>Part 2: Case studies of management of steelhead fisheries impacting depressed populations in different areas (exploring available data, identifying goals &amp; objectives and how decisions were made)</b></p> <p><b>Facilitator: Thomas Buehrens, WDFW</b></p> <p>10:30 Brief introduction to this session - Thomas Buehrens, WDFW</p> <p>10:35 Clearwater River steelhead season changes using public input, available data, and considerations for chinook and coho fisheries - Joe Dupont, IDFG</p> <p>11:05 Steelhead Management in Idaho: Balancing Hatchery and Wild Populations – John Cassinelli, IDFG.</p> <p>11:35 Washington’s approach to managing Columbia Basin summer steelhead fisheries during times of depressed adult returns - Chris Donley, WDFW</p>
<b>12:05 – 1:20 pm</b>	<b>Lunch Break – Jasper/Onyx Rooms</b>
1:20 – 2:50 pm	<p><b>SESSION FOUR</b></p> <p><b>PART 2: CASE STUDIES CONTINUED</b></p> <p><b>FACILITATOR: THOMAS BUEHRENS, WDFW</b></p> <p>1:20 Washington’s Coastal Steelhead Management: Collaboration and Public Engagement Catalyze Change - Toby Harbison, WDFW</p> <p>1:50 Management of Interior Fraser Steelhead- Rob Bison, BC</p> <p>2:20 Uncharted Waters - Closing the Deschutes River to Steelhead Fishing: Hard decisions, developing a fishery management framework, and lessons learned - Jason Seals, ODFW</p>
<b>2:50 – 3:10 pm</b>	<b>Break – 20 minutes</b>
3:10 – 5:00 pm	<p><b>Session Four – (Part 3): Steelhead Management Panel and audience discussion on management decision making.</b></p> <p><i>(Note: Part 3 will <u>not</u> be available for streaming participants due to facility limitations.)</i></p> <p><b>Facilitator: Kevin Goodson, ODFW, Retired</b></p> <p>Is there a right and wrong way for steelhead management? Should it be consistent within and between states? What tools are needed? What are the challenges? How should the angling and non-angling public be involved? What should future meetings address?</p>
<b>5:30 –8:00 pm</b>	<p><b>Dinner Banquet – Jasper/Onyx Rooms</b></p> <p><b>Continuation of Steelhead Management Panel (as needed)</b></p>

## Thursday, March 16, 2023

<b>6:45 – 8:00 am</b>	<b>Breakfast – Jasper/Onyx Rooms</b>
8:00 – 10:00 am	<b>Session Five: Invited Papers Session</b> <b>Chair: Alan Byrne, Idaho Fish and Game</b> 8:00 Spatial clustering of spawners and limited dispersal capacity of fry influence habitat accessibility of juvenile steelhead ( <i>Oncorhynchus mykiss</i> ) – Nicholas Chambers, University of Washington 8:30 Diversity in Early Life History Movement and Survival of Juvenile Steelhead in Idaho – Marika Dobos, IDFG 9:00 Mechanisms of rapid adaptation to captivity in steelhead, and possible solutions – Michael Blouin, Oregon State University 9:30 Utilizing Models for Hatchery Program Evaluation – Anja Huff, WDFW
<b>10:00 – 10:20 am</b>	<b>Break – 20 minutes</b>
10:20 – 11:50am	<b>Session Six: Invited Papers – Continued</b> <b>Chair: Alan Byrne, Idaho Fish and Game</b> 10:20 Addressing the complexities of steelhead behavior when estimating adult abundance – Carli Baum, IDFG 10:50 Predation rate estimates for steelhead smolts during early marine migrations - Barry Berejikian, NOAA Fisheries 11:20 Long-term changes in kelt survival of WA coastal steelhead – Jan Ohlberger, WDFW
11:50 – 12:00 pm	<b>Closing Remarks</b> <b>Stephen Phillips, Pacific States Marine Fisheries Commission</b>
<b>12:00 – 1:00 pm</b>	<b>Boxed Lunch To-Go - Jasper/Onyx Room</b>