



2021 PACIFIC COAST STEELHEAD MANAGEMENT ON-LINE MEETING

MARCH 16-18, 2021

TUESDAY, MARCH 16, 2021

9:00 – 9:10 AM	WELCOME, INTRODUCTIONS & HOUSEKEEPING ITEMS STEERING COMMITTEE CHAIR, ROGER HARDING, ALASKA DEPARTMENT FISH AND GAME, RETIRED STEPHEN PHILLIPS, PACIFIC STATES MARINE FISHERIES COMMISSION
9:10 – 9:55 AM	SESSION ONE – BRIEF OVERVIEW/HIGHLIGHTS OF STEELHEAD STOCK STATUS REVIEW PLEASE NOTE: COMPLETE PRESENTATIONS POSTED ON PSMFC\STEELHEAD WEB PAGE (THIS SHORT SESSION WILL HIGHLIGHT OVERALL STATUS, SIGNIFICANT CHANGES OR ISSUES) CHAIR: BRIAN MARSTON, ALASKA DEPARTMENT OF FISH AND GAME 9:10 California – Ryon Kurth, California Department of Fish and Wildlife (CDFW) 9:15 Oregon – Tom Friesen, Oregon Department of Fish and Wildlife (ODFW) 9:20 Idaho – Alan Byrne, Idaho Department of Fish and Wildlife (IDFG) 9:25 Washington – Dan Rawding, Washington Department of Fish and Wildlife (WDFW) 9:30 British Columbia – Robert Bison, Ministry of Forests, Lands, Natural Resource Operations and Rural Development (MFLNRORD) 9:35 Alaska – Matt Catterson, Alaska Department of Fish and Game (ADFG) 9:40 Questions and Discussion
9:55 – 10:00 AM	BREAK - 5 MINUTES
10:00 – 11:40 AM	SESSION TWO - (PART 1) GENETICS UPDATES CHAIR: BRIAN MARSTON, ALASKA DEPARTMENT OF FISH AND GAME 10:00 Can angler-assisted brood stock programs improve the catch rate of hatchery steelhead? Preliminary results from the “Biter Study” - Marc A. Johnson, Ph.D., ODFW 10:20 Conservation and Management of Adaptive Genomic Variation - Devon Pearse, NOAA Fisheries Ecology, Southwest Fisheries Science Center, Santa Cruz, CA 10:40 Evidence of Hatchery-Wild Introgression in A Winter Steelhead Population In The Green River, WA - Bethany Craig, Joseph Anderson, Todd Seamons, and Kenneth Warheit, WDFW 11:00 Using genetic analysis to assess barriers and historical distribution of steelhead in the Eel River, California - Samantha Heather Kannry, University of California, Davis 11:20 Questions and Discussion
11:35 – 11:40 AM	BREAK - 5 MINUTES
11:40 – 12:30 PM	SESSION TWO - (PART 2) APPLICATION OF GENETICS FOR STEELHEAD MANAGEMENT CHAIR: ALAN BYRNE, IDAHO DEPARTMENT OF FISH AND GAME 11:40 The Snake River Basin Wild Steelhead Run Reconstruction Model: Genetic Foundations and Management Application - Eric Stark, IDFG 12:00 Single parent and grandparent genetic assignments, what is possible and what is not -Tomas Delomas, IDFG 12:20 Questions and Discussion

WEDNESDAY, MARCH 17, 2021

9:00 – 10:10 AM	<p>SESSION THREE - (PART 1): REVIEW OF POPULATION DYNAMICS MODELS TO GUIDE QUANTITATIVE MANAGEMENT</p> <p>CHAIR: THOMAS BUEHRENS, WASHINGTON DEPARTMENT OF FISH AND WILDLIFE</p> <p>9:00 Combining matrix models and decision theory to manage steelhead harvest - Matt Falcy, ODFW</p> <p>9:20 Skagit Steelhead Integrated Population Model - Mark Scheuerell, U.S. Geological Survey, Washington Cooperative Fish and Wildlife Research Unit</p> <p>9:40 Recent Issues in the Idaho Steelhead Fisheries and Use of an Integrated Population Model to Address Them - Lance Hebdon, Timothy Copeland, Joshua McCormick, IDFG</p> <p>10:00 Summary, Questions and Discussion (10 minutes)</p>
10:10 – 10:15 AM	BREAK – 5 MINUTES
10:15 – 11:35 AM	<p>SESSION THREE - (PART 2): REVIEW OF BEST MANAGEMENT TOOLS AVAILABLE FOR USE ON DEPRESSED RECREATIONAL STOCKS</p> <p>CHAIR: THOMAS BUEHRENS, WASHINGTON DEPARTMENT OF FISH AND WILDLIFE</p> <p>10:15 Integrating tools to manage steelhead fisheries - Thomas Buehrens, WDFW</p> <p>10:35 Hooking mortality rates for use in steelhead fisheries - Ian Courter, Mt Hood Environmental</p> <p>10:55 Air exposure, fight times, and deep hooking rates of steelhead caught in Idaho fisheries - Luciano Chiaramonte, IDFG</p> <p>11:15 Effects of fishery related fight times and air exposure on pre-spawn survival and reproductive success of adult hatchery steelhead - Don Whitney, IDFG</p>
11:35 – 11:40 AM	BREAK – 5 MINUTES
11:40 – 1:00 PM	<p>11:40 “Real time” steelhead escapement estimates to maximize potential hatchery harvest rates - Ben Truscott, WDFW</p> <p>12:00 Generating estimates of catch for wild steelhead in recreational fisheries: Challenges and solutions - Kale Bentley, WDFW</p> <p>12:20 Using recreational e-tagging data to monitor steelhead fisheries - Angela Ward and Michelle Jones, ODFW</p> <p>12:40 Summary, Questions and Discussion</p>

THURSDAY, MARCH 18, 2021

9:00 – 10:55 AM	<p>SESSION FOUR - CHALLENGES AND INFORMATION NEEDS FOR OREGON STEELHEAD</p> <p>CHAIR: TOM FRIESEN, OREGON DEPARTMENT OF FISH AND WILDLIFE</p> <p>9:00 Measuring the additive effects of colonial waterbird predation on the survival of Upper Columbia River steelhead: implications for predator management - Quinn Payton, Allen Evans, Nathan Hostetter, Daniel Roby, Brad Cramer, and Ken Collis, Real Time Research, Inc., U of W, and OSU</p> <p>9:20 California sea lion predation on steelhead at Willamette Falls, 2014-2019 - Bryan Wright and Sheanna Steingass, ODFW</p> <p>9:40 Migration and survival of juvenile winter steelhead above and below high-head dams - Karen M. Cogliati, Thomas A. Friesen, Marc A. Johnson, and Paul Olmsted, OSU and ODFW</p> <p>10:00 The changing North Pacific ecosystem and potential impacts to steelhead - Elizabeth Daly, Hillary Thalmann, Richard Brodeur, Brian Burke, and Don Van Doornik, OSU</p> <p>10:20 Information needs for managing native winter steelhead in the upper Willamette River, Oregon - Luke D. Whitman, Brian Cannon, Michael Hogansen, and Mark Lewis, ODFW</p> <p>10:40 Summary, Question and Discussion</p>
10:55 – 11:00 AM	BREAK – 5 MINUTES
11:00 – 12:20 PM	<p>SESSION FIVE: INVITED PAPERS</p> <p>CHAIR: ALAN BYRNE, IDAHO DEPARTMENT OF FISH AND GAME</p> <p>11:00 Life History Diversity and Energetic Tradeoffs of <i>Oncorhynchus mykiss</i> in the Utkholok River, Kamchatka - Mara Zimmerman, Matthew Sloat, Kirill Kuzischin, Martini Arostegui, Tom Quinn, and Todd Seamons; Coast Salmon Partnership, Wild Salmon Center, MSU in Moscow, Russia, U of W, and WDFW</p> <p>11:20 Using non-lethal microchemistry techniques to validate life history pathways in a fjord population of <i>O. mykiss</i> - Lance Campbell, WDFW</p> <p>11:40 Abundance and Migration Success of Overshoot Steelhead in the Upper Columbia River - Andrew R. Murdoch, Kevin See, BioMark, and Benjamin L. Truscott, WDFW</p> <p>12:00 Trends, Survival, and Productivity of Wild Steelhead in Idaho - Marika Dobos, IDFG</p>
12:20 – 12:30 PM	BREAK – 10 MINUTES
12:30 – 1:50 PM	<p>SESSION FIVE: INVITED PAPERS – CONTINUED</p> <p>12:30 Environmental DNA (eDNA) Identification of Steelhead and Coho Salmon Redds in the Hoh River, WA - Sarah K. Brown and Mara Zimmerman, WDFW</p> <p>12:50 Variability in harbor seal predation on steelhead smolts in the Nisqually Estuary and main basin of Puget Sound - Barry Berejikian and Megan Moore, NOAA</p> <p>1:10 Ocean movements and behavior of steelhead kelts as revealed by pop-up satellite tags - Emily Miller, Monterey Bay Aquarium</p> <p>1:30 The Impacts of Dam Construction and Removal on the Genetics of Recovering Steelhead (<i>Oncorhynchus mykiss</i>) Populations across the Elwha River Watershed – Alexandra K. Fraik, WSU</p> <p>1:50 Questions and Discussion</p>
2:00 PM	<p>CLOSING REMARKS</p> <p>ROGER HARDING/STEPHEN PHILLIPS, PACIFIC STATES MARINE FISHERIES COMMISSION</p>