NWFSC Watershed Program Open House

NOAA Western Regional Center

7600 Sand Point Way NE

Seattle, WA

March 20, 2017

https://www.nwfsc.noaa.gov/research/divisions/fe/wpg/index.cfm

8:30-8:35

Welcome – Rich Zabel, Fish Ecology Division Director, Northwest Fisheries Science Center

8:35-8:40

Overview of Watershed Program research – George Pess, Program Manager, Northwest Fisheries Science Center

Session 1 – Salmon Life Cycles

8:40-9:00

A geomorphic approach to estimating salmon rearing capacity in the Columbia River basin – Morgan Bond (NOAA Affiliate - Ocean Associates)

9:00-9:20

Restoration in tributary, mainstem, and estuary habitats and recovery of Oregon coho salmon: results from life cycle modelling – Correigh Greene

9:20-9:40

Population modeling for developing Puget Sound Chinook Salmon Rebuilding Exploitation Rates – Martin Liermann

9:40-10:00

Characterizing the size and timing of juvenile salmonid movement and migration from the Elwha River and two tributaries, Indian Creek and Little River – Todd Bennett

BREAK 10:00-10:20

Session 2 – Chehalis and Puget Sound

10:20-10:40

A process-based assessment for watershed restoration planning, Chehalis River basin, USA – Tim Beechie

10:40-11:00

Influence of channel width on stream shade and temperature change in a forested catchment – Gustav Seixas (NOAA Affiliate - Ocean Associates)

11:00-11:20

Monitoring nearshore, delta, and freshwater habitats in Puget Sound – Britta Timpane-Padgham and Oleksandr Stefankiv (NOAA Affiliates - Ocean Associates)

11:20-11:40

Relationships between floodplain habitat complexity and productivity of Chinook salmon in Puget Sound Rivers – Jason Hall

11:40-12:00

Developing indicators of salmon marine survival – Kathryn Sobocinski (NOAA Affiliate - Long Live the Kings)

12:00-1:00

Poster session

LUNCH 1:00-2:00

Session 3 – Restoration

2:00-2:20

Riparian forest structure and stream food webs – Peter Kiffney

2:20-2:40

Klamath River restoration: Do we need fewer dams or more dams? Michael Pollock

2:40-3:00

Restoration monitoring in the Snohomish River estuary – Joshua Chamberlin

3:00-3:20

Effects of shoreline armoring and overwater structures on fish ecology in Puget Sound – Stuart Munsch (NOAA Affiliate – Ocean Associates)

3:20-3:40

Hyporheic zone function in urban floodplain restoration – Sarah Morley

3:40-4:00

Ecosystem response to the removal of the Elwha River dams – George Pess

4:00-5:00

Poster session

Posters

(Displayed in the room across the foyer from the auditorium)

Correlation of abundance and distribution of freshwater sunfish in the Snohomish River estuary to seasonal surface temperature anomaly – Barney Boyer (NOAA Affiliate, Veteran's Conservation Corps.)

Pacific lamprey (*Entosphenus tridentatus*) restoration in the Elwha River drainage following dam removals – Steve Corbett (NOAA Affiliate, Ocean Associates)

Reconstructing historical patterns of primary production in Puget Sound using growth increment data from shells of long-lived geoducks (*Panopea generosa*) – Jenny Eccles (NOAA Affiliate, Long Live the Kings)

Stream shading, temperature change, and wood recruitment in the Chehalis River basin – Caleb Fogel (NOAA Affiliate, Ocean Associates)

The Skagit estuary Intensively Monitored Watershed project: results after 20 years of restoration – Correigh Greene

Connectivity and estuary habitat use in juvenile fish: an analysis of tide gates and culverts – Jason Hall and Correigh Greene

The use of portable and stationary PIT tag antennas to track movements and determine the fate of cutthroat trout, *Oncorhynchus clarkii*, in a small urban creek system – Karrie Hanson

Influence of a recent drought on freshwater environments in California – Stuart Munsch (NOAA Affiliate - Ocean Associates)

A geomorphic approach to estimating large-scale salmon habitat in the Columbia River basin – Tyler Nodine (NOAA Affiliate, Ocean Associates)

Influence of channel width on stream shade and temperature change in a forested catchment – Gustav Seixas (NOAA Affiliate, Ocean Associates)

Exploring drivers for declining marine survival in Pacific salmon using qualitative network modeling – Kathryn Sobocinski (NOAA Affiliate, Long Live the Kings)