



pacific northwest aquatic
monitoring partnership

Events

August

Aug 5: [WA Salmon Recovery Funding Board](#) (Olympia, WA)

Aug 5: [Celebrate 40 Years of Salmon Stewardship in Hood Canal](#) (Union, WA)

Aug 10: [Geospatial Professional Network \(GPN\) GIS Leadership Academy](#) (virtual)

Aug 11: [Northwest Power and Conservation Council Meeting](#) (Seattle, WA)

September

Sept 9: [Northwest Power and Conservation Council Meeting](#) (Portland, OR)

Sept 15: [WA Salmon Recovery Funding Board](#) (Olympia, WA)

Sept 15, 17, 22, 24: [RRNW Fall 2026 Short Course: Virtual Facilitation Skills for River Restoration Professionals](#) (virtual)

Sept 21-23: [2026 Alaska GeoSummit](#) (Girdwood, AK)

Sept 24: [Washington Invasive Species Council Meeting](#) (Olympia, WA)

If you have an upcoming event that you would like to add to the PNAMP website and newsletter, please reach out to mdethloff@psmfc.org.

Job Openings

[Full Stack Software Engineer Fish Data Systems](#) (Portland, OR) - Pacific States Marine Fisheries Commission - Closes: August 2, 2026

[Technical Records Specialist](#) (Boise, ID) - Idaho Fish and Game - Closes: July 30, 2026

[Forest Habitats Section Manager - Environmental Planner](#) (Olympia, WA) - Washington Dept of Fish and Wildlife - Closes: August 2, 2026

[NSEA Monitoring Internship](#) (Bellingham, WA) - Nooksack Salmon Enhancement Association - Closes August 7, 2026

[Watershed Restoration Specialist](#) (McCall, ID) - Nez Perce Tribe - Closes August 7, 2026

[Fisheries Technician: Spawning Ground Surveyor](#)- (Salkum, WA) - Pacific States Marine Fisheries Commission - Closes: August 9, 2026

[Fisheries Technician: Cowlitz River Crew Member](#) (Salkum, WA) - Pacific States Marine Fisheries Commission - Closes: August 9, 2026

[ESA Section 7 Consultation Biologist](#) (Astoria, OR) - Astor Environmental LLC - Closes: August 31, 2026

[Deputy Director](#) (Helena, MT) - Montana Dept of Fish, Wildlife and Parks - Closes: Open until Filled

[AIS Watercraft Inspector](#) (Sula, MT) - Montana Dept of Fish, Wildlife and Parks - Closes: Open until Filled

[Fisheries Technician](#) (Naples, ID) - Idaho Fish and Game - Closes: Open until Filled

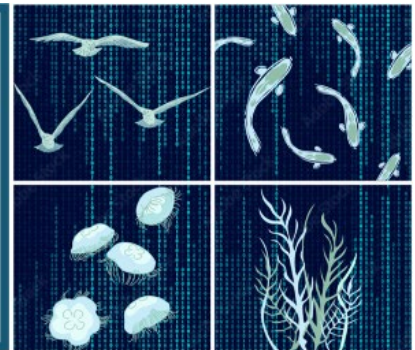
[Principal Scientist/Engineer](#) (OR/WA) - Spheros Environmental - Closes: Open until Filled

If you have a job opening that you would like to add to the PNAMP website and newsletter, please reach out to mdethloff@psmfc.org.

Announcements & Recent Publications

2026 Emerging Technologies Information Sessions

October 26-28, 2026
Skamania Lodge – Stevenson, Washington



Registration Open: Emerging Technologies Information Sessions

Please join us for the 2026 Emerging Technologies Information Sessions (ETIS) conference organized by the Pacific Northwest Aquatic Monitoring Partnership (PNAMP) and StreamNet on October 26-28, 2026! This year's theme is, "Insight Below the Surface: Advancing Ecological Monitoring Through Innovative Tools and Data Driven Decisions."

Event Details:

- Registration fee \$175: [2026 ETIS Registration](#)

- Date: October 26-28, 2026
 - Workshop: Genetics 101 for Fisheries Professionals (October 26th)
 - Field Trip: CRITFC Mobile Genetics Lab (October 28th)
- Location: Skamania Lodge - Stevenson, Washington
 - Book a room at Skamania Lodge at the GSA Rate of **\$155/night** plus taxes and fees. Reservations for the room block can be made [HERE](#) or by calling 844-432-4748.

We encourage in-person attendance for the 2026 ETIS Conference. We understand travel may be restricted to some participants and so we are providing a virtual attendance option. However, virtual participants will not be able to attend the workshop, the poster session & exhibitor happy hour, or the field trip.

The 2026 ETIS Conference will include presentations on:

- Artificial Intelligence and Machine Learning
- Tagging and Trapping Technologies
- Remote Sensing
- Genetics
- Data QA/QC
- Predictive Modeling
- Innovative Best Practices for Monitoring

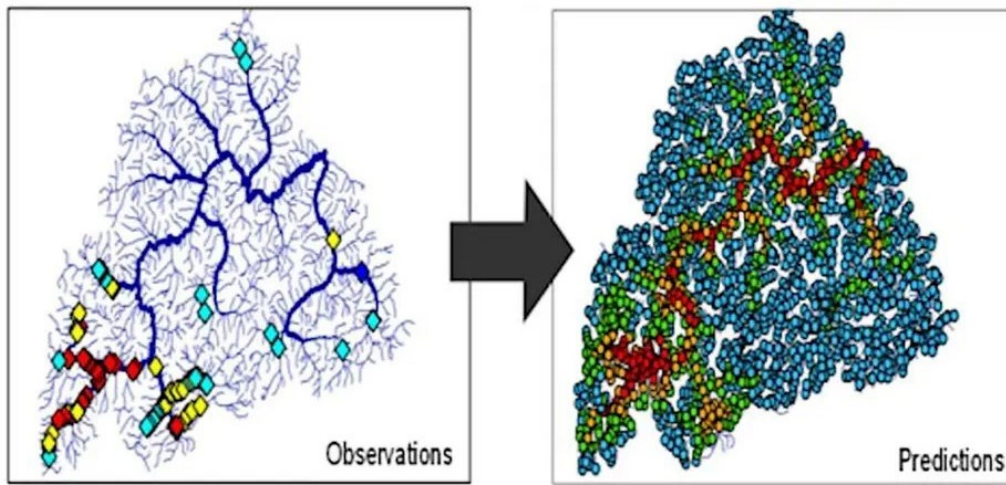
Our team is currently working on finalizing the agenda and program. You can track event details and new documents from the [event project page](#).

If you have questions, please reach out to Sam Cimino at scimino@psmfc.org

Event Sponsors



Spatial Stream Network Modeling Workshop 2026



Registration for the Spatial-Stream-Network Models training workshop is open, visit [sign up page](#). This typically fills quickly so act now.

DATE: October 14-16, 2026

COST: Professionals \$1000, Students \$700

A class of spatial statistical network model for data on stream networks has recently been developed & free software is available for implementing the models. SSNs account for network topology (i.e., flow direction, stream size, tributary confluences) and offer significant improvements over many traditional statistical techniques that were developed originally for terrestrial applications. The SSNs are applicable to common types of stream data (e.g., water quality attributes, biological survey information, genetic metrics, habitat conditions) through application of several distributions (e.g., Gaussian, binomial, Poisson). The models also account for spatial autocorrelation among measurements, which makes them powerful tools for mining information from large datasets aggregated from multiple sources or sampling designs that are clustered and nonrandom. For additional details, please visit the [SSN/STARS](#) and [National Stream Internet websites](#).

Share free user-friendly tools:

- SSNbler package for R Statistical Software
- SSN2 package for R Statistical Software
- Introduction to the new R packages, SSNbler and SSN2, including new data structures and functionality
- Demonstrate the data processing steps necessary to calculate the spatial information needed to fit a spatial statistical model in R
- Demonstrate how SSN2 is used for:
 - Exploratory data analysis
 - Modelling continuous, presence/absence, and count data using spatial linear, linear mixed-effects, and generalized linear model
 - Model diagnostics and selection
 - Prediction (kriging) and block kriging
 - Uncertainty estimation

REQUIREMENTS: Participants attending the 3-day workshop must bring a laptop with access to R statistical software. Additional software needed for spatial data processing include either:

- R statistical software and a GIS of your choice (e.g. QGIS, ArcGIS Desktop or ArcPro, etc.) **OR**
- ArcGIS Desktop with an Advanced license and the ArcGIS Spatial Analyst extension (not ArcPro)

Please contact the organizers, (daniel.isaak@usda.gov), if you have questions or cannot meet these requirements.

HOTEL INFO: closest hotel to the workshop is Courtyard Boise Downtown: (208) 331-2700

TRANSPORTATION: Hotel provides free shuttle to/from the airport

QUESTIONS? Reach out to Dan Isaak at daniel.isaak@usda.gov

Recent Publications:

[Strengthening ties between the U.S. Geological Survey and Interstate Fisheries Commissions](#)

Joshua D. Miller, Michael William Schmidt, Thomas Joseph O'Connell, Kurt R. Newman, Danielle Kitchen, Robert Beal, Marc Gaden, Dave Donaldson, Barry Thom, Steve VanderKooy, Patrick Campfield, John M. Dettmers, Stan Allen, David H. Hu, Jennifer M. Bayer, Deborah Epperson, Rachel E. Reagan, Kirby Rootes-Murdy, Margaret Lamont, Russell M. Strach

[Distribution, abundance and ecological associations among two species of native mussels \(*Gonidea angulata* and *Margaritifera falcata*\) and one invasive clam species \(*Corbicula fluminea*\) in the Columbia River Basin, North America](#)

Nathaniel G. Neal, Stephen M. Bollens, Alexa N. Maine, Timothy D. Counihan, Gretchen Rollwagen-Bollens

[First report of tenacibaculosis in wild-caught Pacific salmon](#)

Emiliano Di Cicco, Sean C. Godwin, Kaitlyn R. Zinn, Stephen D. Johnston, Karia H. Kaukinen, Angela D. Schulze, Shaorong Li, Jonathan F. Archambault, Kaleb N. R. Mantha-Rensi, Kayla A. J. Zielke, William S. Bugg, Gideon J. Mordecai, Arthur L. Bass, Christoph M. Deeg, Andrew W. Bateman, Scott G. Hinch & Kristina M. Miller

The following publications are a truncated version of the Salmon Science on the Street email sent out by Greer Maier, Science Coordinator for the Washington State Governor's Salmon Recovery Office. If you'd like to recommend a paper or want included on the Salmon Science on the Street distribution list, reach out to Greer, greer.maier@gsro.wa.gov

Cultural Benefits Knowledge and Social Learning in Elwha River Dam Removal and Ecosystem Decision-Making

Kristin R. Hoelting, Doreen E. Martinez, Lucas S. Bair, Rudy M. Schuster, Michael C. Gavin

How most influential ecological and geomorphologic river concepts shaped modern aquatic ecology and restoration

Valerie Ouellet, Karen J. Murchie, John F. Kocik, George R. Pess, Timothy J. Beechie, Rory Saunders, Brian Cluer, Matthew B. Ogburn

ESHE: A Life-Cycle–Integrated Modeling Framework for Quantifying Salmon Rearing Habitat

Kiera S. McNeely, Kirsten Sellheim, Kai Ross, Peter J. Moniz, Joseph E. Merz

Restoring Lateral Connectivity to Anthropogenic Riverscapes: Six Lessons From Stage Zero

Richard J. Mason, Matthew F. Johnson, Ben Eardley, Matthew J. Hemsworth, Arnaud Foret, Luca Mao, Matt Parr, Alan Puttock, Richard E. Brazier

Mapping functional fluvial spaces for river restoration: a spatial analysis approach to floodplain reconnection

Beatriz R. Becker, Marcos M. Moreira de Sousa, Ruth B. Pincinato, Guida da Silva, Felipe Miranda, Marcelo Miguez

Monitoring Change in Floodplain Vegetation Due To River Restoration Treatments With Remote Sensing in the Intermountain West

Emily Iskin, Nicholas Kolarik, Juan Camilo Rojas Lucero, and Jodi Brandt

Forensic Hydraulic Analysis of Floodplain Connectivity Driven by Historical Beaver Dams in Colorado Headwater Streams

Kayla Schultz, Ryan R. Morrison, Sara Rathburn, Connor Mertz, Nicholas Christensen

The Managed Erosion of Conservation Priorities for Pacific Salmon

Michael H. H. Price, Allison M. Dennert, Gideon J. Mordecai, Mark Cleveland, Aaron Hill, Samantha Vincent, Greg Knox, John D. Reynolds

Increasing presence of Bigg's killer whales and changing seasonality of Southern Resident killer whales in Washington waters

Zoe R. Rand, Laura E. Koehn, Alexis Morrigan, M. Bradley Hanson

The secret life of salmon during cryptic ice age lake isolation

Patrick C. Martina, David R. Montgomery, Jeffrey J. Hard, Kenneth P. Currens, Ralph A. Haugerud, Sewall F. Young, William D. Templin, Harvey Greenberg, Adrian P. Spidle, Denby S. Lloyd,

Predicted Stream Temperatures Suggest Challenges for Pacific Salmon in Coming Decades

Aimee H. Fullerton, Jared E. Siegel, Arianna Goodman, Dawn U. Rycki Jeffrey C. Jorgensen,

Chris E. Jordan

If you have a recent publication that you would like to add to an upcoming newsletter, please reach out to mdethloff@psmfc.org.



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