pacific northwest aquatic monitoring partnership

PNAMP April 2024 Newsletter

Upcoming Events

April 4	Ocean and Plume Science Management Forum
April 9-10	2024 Coastal Cutthroat Trout Symposium
April 9-10	Northwest Power and Conservation Council Meeting
Apr 15-17	Affiliated Tribes of Northwest Indians 2024 National Tribal Leaders Climate Summit, Auburn, Washington, USA
April 18-20	2024 Pacific Estuarine Research Society Meeting (PERS)
April 18	Pacific Northwest Blue Carbon Working Group - Nanaimo, BC (held in conjunction with PERS)
Apr 18	PNAMP Fish Monitoring Work Group Meeting - See article below
Apr 23-24	Oregon Watershed Enhancement Board Meeting, Baker City, Oregon, USA
Apr 29-May 2	2024 Joint Conference of ID and WA/BC AFS Chapters, Spokane, Washington, USA
Apr 30-May 1	2024 GIS In Action Conference

May 12-16	23rd International Conference on Aquatic Invasive Species
May 14-15	Northwest Power and Conservation Council Meeting
May 21	2024 HCAX Project Workshop - See article below
May 22-23	Columbia River Basin Restoration Work Group Meeting

Please check the PNAMP calendar for recently added meetings as well as meeting updates, agendas, and contact information.

If you would like your meetings posted on the PNAMP calendar, please email Megan Dethloff with details.

PNAMP.org Site Temporarily Unavailable

Due to unforeseen circumstances, our website, PNAMP.org, is currently unavailable. We're working diligently to get it back up and running as soon as possible so you can get back to enjoying all that it has to offer. In the meantime, if you have any questions about upcoming events, or need access to anything posted to our website, don't hesitate to reach out to us at gs-pnamp_contact@usgs.gov.

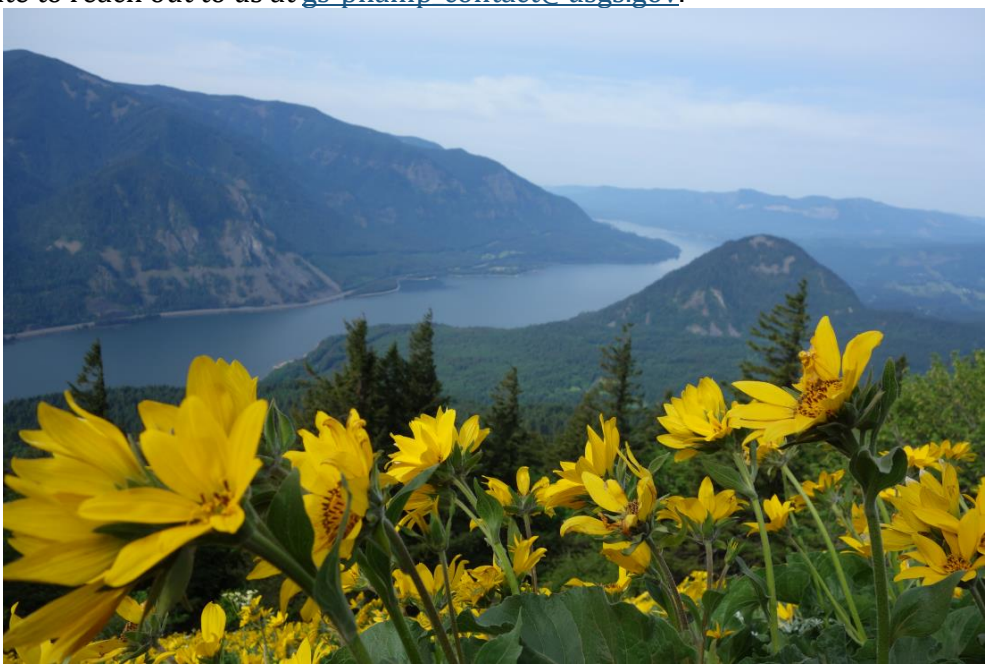

Image courtesy of Amy Puls, PNAMP

Tune in for the Fish Monitoring Work Group Temp Tech Talk in April!

Join the PNAMP Fish Monitoring Work Group (FMWG) in April as we dive into water temperatures! Andy Tranmer, a Research Professor with the Center for Ecohydraulics Research in the Department of Civil and Environmental Engineering at the University of Idaho will present, “A new approach to spatially characterize water temperature in wadable streams”.

Water temperature is a primary driver of biological processes and metabolic rates that exhibits high spatial variation in aquatic systems. However, accurately measuring water temperatures and characterizing its associated variability in the field is an ongoing challenge that constrains our understanding of seasonal timing of processes, chemical reaction rates, and habitat availability. Here Andy presents a new, simple method of measuring spatially distributed water temperatures and depths in wadable streams by combing low-cost sensors and RTK GPS units. He will also demonstrate its application for capturing temperature heterogeneity and identifying thermal refuges in a recently restored gravel-bed reach of the Grande Ronde River in Oregon. The field data were used to evaluate which restored morphologic features (alcoves, side channels, riffles, pools, and plane beds) aid in maintaining appropriate thermal habitat conditions.

Join us on April 18th from 10-11:30 am (Pacific) to learn more. Not available on April 18th? We’ve got you covered! Check out our YouTube channel for previous presentations or task meetings.

On April 18th, click here to join the meeting
Meeting ID: 285 281 536 108
Passcode: s5A4hx

Want more information or be added to the Fish Monitoring Work Group? Contact Meg Dethloff, mdethloff@usgs.gov.

Image courtesy of The Bureau of Land Management

Registration Open for the Pacific Lamprey Conservation Initiative Native Lamprey Workshops

Pacific Lamprey Conservation Initiative is pleased to announce their 2024 Native Lamprey Workshops. The goals of these day-and-a-half in-person workshops are to raise awareness of native lamprey species and assist participants in incorporating lamprey conservation into restoration projects, including permitting, passage design, in-water work activities, and other considerations.

The workshops use both classroom and field instruction to provide participants with knowledge of the ecology, habitat needs, cultural significance, and conservation of lamprey species in the Pacific Northwest, and enable them to survey, salvage, and identify lamprey species.

Participants will receive handouts and resources to assist with lamprey identification and available conservation resources. The workshop is comprised of a day of classroom instruction, followed by a half-day of field instruction.

Workshops are capped at 30 participants each and are filling up fast, so register for your chosen workshops soon!

Registration link: [Native Lampreys Workshop Registration (jotform.com)]

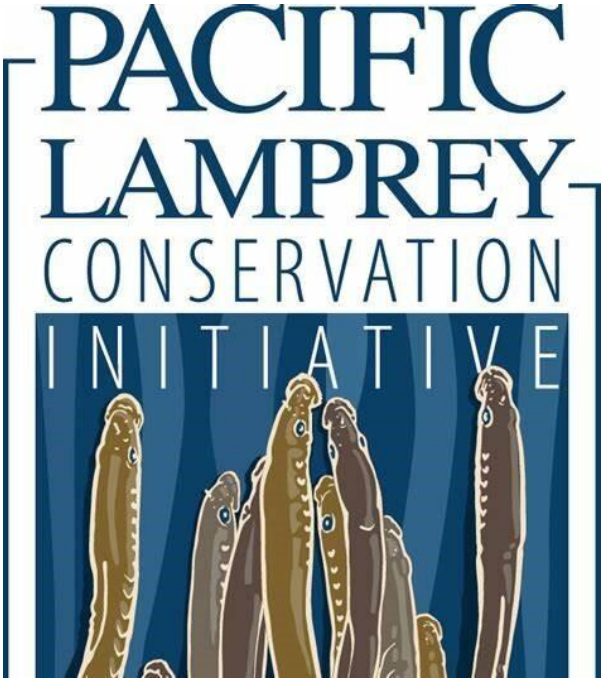

Image Courtesy of Pacific Lamprey Conservation Initiative

Attending the WA-BC-Idaho Joint AFS Meeting? Check-out the Data Longevity Symposium!

PNAMP, StreamNet, and Fisheries and Oceans Canada teamed up to sponsor a symposium on achieving data longevity at the upcoming 2024 Washington-British Columbia and Idaho Joint Aquatic Fisheries Society Meeting, April 29 - May 2 in Spokane, Washington.

The symposium, “Data Longevity Achieved! Reproducibility throughout the lifecycle and beyond”, include presentations concerning the use of FAIR (Findable, Accessible, Interoperable, Reusable) and CARE (Collective benefit, Authority to Control, Responsibility and Ethics) data principles to investigate reproducibility throughout research and resource management workflows, from ideation and planning to sharing for data re-use. Presentations will include using large language models (LLMs) to connect metadata with published datasets, the importance of data citation, and using artificial intelligence to support greater interoperability of data and standardization.

For more information about our symposium and all the other symposia at the WA-BC-Idaho Joint AFS Meeting, head to the symposia abstract page.

American Fisheries Society logo (https://www.showsbee.com/newmaker/www/u/2021/202112/cfr_img/American-Fisheries-Society-logo.png)

1935 aerial orthophotographs of the Columbia River, from Portland to the Deschutes River

In February, the USGS published a data release of orthophoto mosaics of the Columbia River, created by orthophotographs collected in 1935 by the U.S Army Corps of Engineers.

Orthophotographs are aerial photographs or satellite imagery that is geometrically corrected so that the scale is uniform. Because they're an accurate representation of the Earths surface, orthophotos help us more accurately measure distances and topography. To learn more about Orthophotography, check out this article on the subject.

The original photographs were taken prior to the construction of the three major dams in this particular part of the Columbia River, which makes these orthophotographs extremely valuable for comparison of pre-dam conditions to now. For more information on these orthophotographs, visit the USGS website.

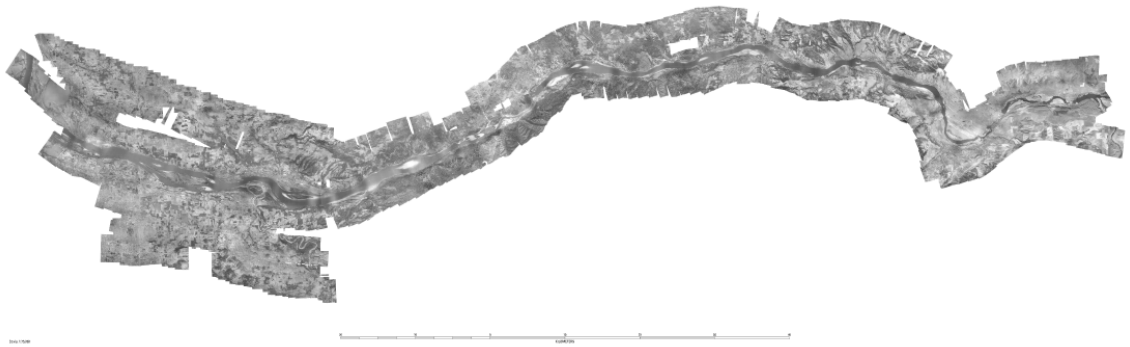

Image courtesy of Army Corps of Engineers, and USGS

A Day in the Life of ODFW Assistant District Fish Biologist Mike Sinnott

I am the Assistant District Fish Biologist for the North Coast Watershed District which extends from the Columbia River south to Neskowin Creek and includes nine major river basins, many independent ocean tributaries, and several lakes. I assist the District Biologist who sets the priorities for the district, and we share the workload. “A day in the life” is all but impossible to explain because no two days are the same. Often the day's plan can change several times in a few hours.

A primary task is the protection of fish habitat which is accomplished through activities like the review of permit applications for development that could negatively impact fish habitat. We provide recommendations for measures to protect habitat or fish and may suggest mitigation to offset habitat losses. In addition, we represent ODFW and participate in city, county, region-wide, and statewide planning efforts. We enhance fish habitat by providing designs and coordinating habitat enhancement projects on private and public lands in cooperation with the landowners. We investigate water pollution in streams and lakes, quantify impacts, and provide information to proper authorities for resolution.

We also conduct physical and biological surveys by boat, on foot, or with snorkel gear to determine population of fish present and their abundance, size, age, and distribution as well as assisting with obtaining annual abundance and harvest trends. This information, along with other research and forecast abundance information, is used to set fishing regulations and recommend appropriate use of hatchery fish in the district.

Another large part of the job is customer service which includes answering questions from the public on fish distribution, recreation opportunities, regulations, and general

biology as well as the ownership and maintenance of boat ramps and angler access sites.

The list goes on and on, but the best part of the job is the diversity of work we get to do. I've been a biologist, data analyst, hatchery technician, construction worker, biological field surveyor, boat driver, fishing instructor, and landscaper; sometimes all in the same week. At the end, I like to think we make a difference in the health of our fish populations, their habitats, and the lives of those who enjoy them.

Image Courtesy Meg Dethloff

Contact us: gs-pnamp_contact@usgs.gov
Find us online: PNAMP.org website
MonitoringResources.org website
X (formerly Twitter): @Pnampmonitoring