pacific northwest aquatic monitoring partnership

PNAMP April 2025 Newsletter

Upcoming Events

April 1	Idaho Chapter: American Fisheries Society 2025 Meeting (Boise, ID)
April 17	PNAMP Fish Monitoring Work Group Meeting (virtual)
Apr 24	Starting Your Journey with PIT Tag Data – FMWG PIT Tag Data & Analysis 2025 Webinar Series
May 1	GitHub for Data Analysis Projects – FMWG PIT Tag Data & Analysis 2025 Webinar Series
May 8	Applications: Clean & Organize Your PIT Tag Data – FMWG PIT Tag Data & Analysis 2025 Webinar Series
May 11-15	2025 AFS Western Division and Colorado-Wyoming Chapter Annual Meeting (Westminster, CO)
May 13	2025 Columbia River Estuary Conference (Troutdale, OR)
May 15	Columbia Basin Research: Data Access in Real Time and Tools – FMWG PIT Tag Data & Analysis 2025 Webinar Series
May22	Beyond PTAGIS: More on applying R and Other Regional PIT Tag Systems – FMWG PIT Tag Data & Analysis 2025 Webinar Series

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

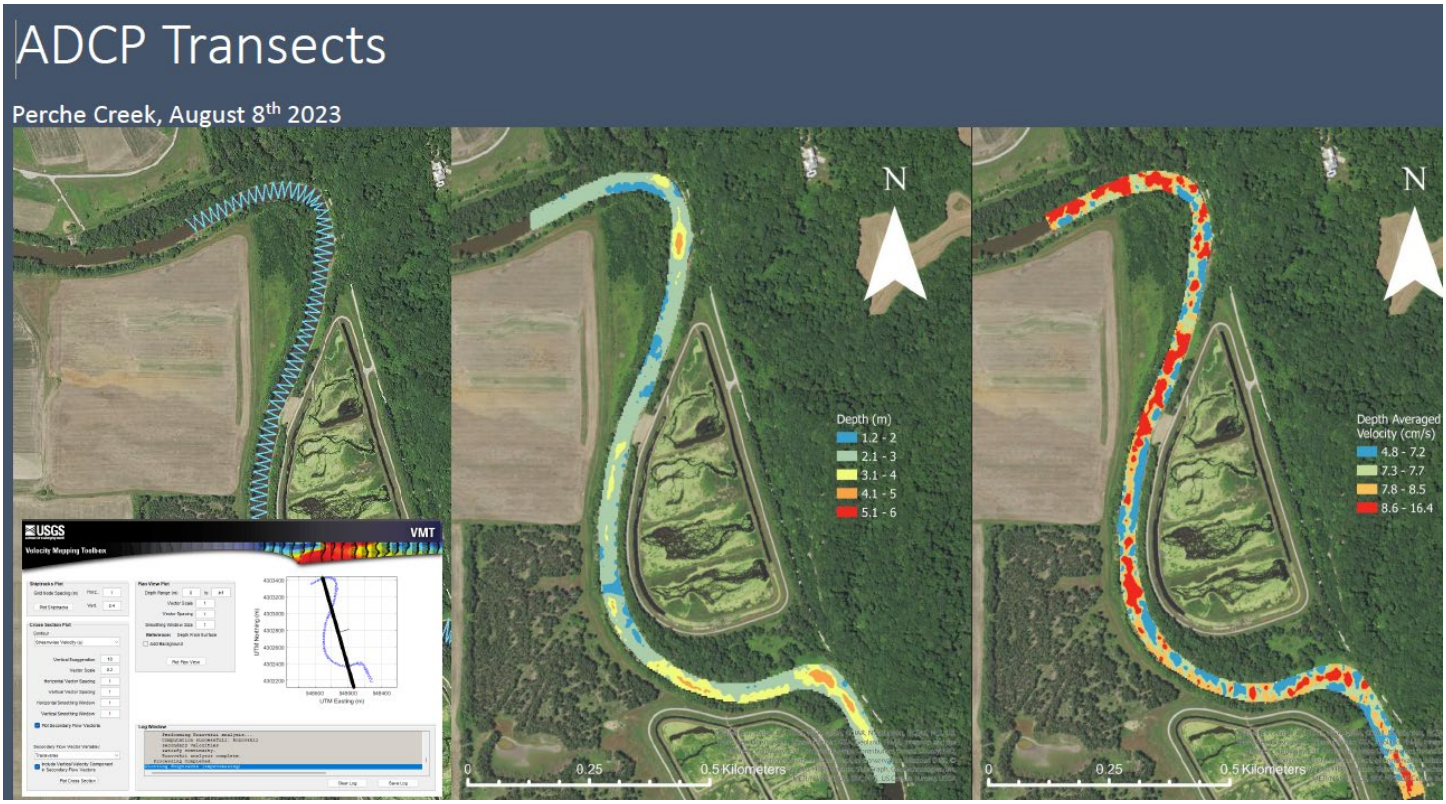
If you would like your meetings posted on the PNAMP calendar, please email Megan Dethloff with details.

Acoustic Doppler Current Profilers, Unmanned Aerial Systems, Side Scan Sonar…OH MY!

Join us at 10:00 am (Pacific) on April 17th for the next meeting of the PNAMP Fish Monitoring Work Group (FMWG). We will update participants on current tasks, enjoy a presentation on innovative fish monitoring methods, and provide you with opportunities to engage regional managers and experts.

Tech Talk Speaker: Tyler Hessler, a PhD student in the Missouri Cooperative Fish and Wildlife Research Unit in Columbia, Missouri
Development of a Mid-Sized River Habitat Sampling Protocol

Summary:
The use of technology is increasing in natural resources field and there is a need to determine how these technologies can be utilized to advance our respective fields. In this study, we propose the use of several advanced technologies (acoustic doppler current profilers, ADCPs; unmanned aerial systems, UASs; side scan sonar; 360 cameras) to better standardize and streamline the collection of fish-relevant habitat data in non-wadeable rivers. UASs and 360 cameras allow for efficient capture of important habitat metrics (canopy cover, riparian land use, etc.) with greater accuracy than traditional observational methods that often include a great deal of subjectivity. ADCPs and side scan sonar have seen use in fisheries but are not used as often as they could be to quickly assess habitat. Although the amount of data these technologies collect can be daunting, the use of AI and other software may streamline the implementation of these data and provide another option for managers that can increase confidence associated with making informed decisions that rely on accurate habitat data. Developing a standardized protocol using these technologies could significantly increase the quality of data collected in non-wadeable rivers and also decrease the costs associated with extended time in the field. Image: Slide from Tyler Hessler's Development of a Mid-Sized River Habitat Sampling Protocol presentation alt text: three diagrams of acoustic doppler current profiles showing stream depth



Mark Your Calendar! PNAMP Fish Monitoring Work Group 2025 PIT Tag Data and Analysis Webinar Series

Join us every Thursday from 10:00 - 11:30 AM (Pacific) April 24th-May 22nd for the PNAMP Fish Monitoring Work Group (FMWG) PIT Tag Data and Analysis 2025 Webinar Series. Each week we'll have presentations from regional experts on how to use a variety of PIT tag data and analysis tools, repositories, and data systems. There is an optional 30-minute "office hours" after each session, approximately 11:30 - 12 pm. Presenters will be available for more hands-on assistance. Note, if there are no further questions during the "office hours", we will conclude the session.

The hyperlinks below will navigate you to each session's event page. Registration for this event is free!

- Starting Your Journey with PIT Tag Data - April 24th, 2025
- GitHub for Data Analysis Projects - May 1st, 2025
- Applications: Clean & Organize Your PIT Tag Data - May 8th, 2025
- Columbia Basin Research: Data Access in Real Time and Tools - May 15th, 2025
- Beyond PTAGIS: More on applying R and Other Regional PIT Tag Systems - May 22nd, 2025

For more details on the presentations, visit: 2025 Webinar Series Program. All presentations will be recorded and available within a week on the PNAMP YouTube channel.

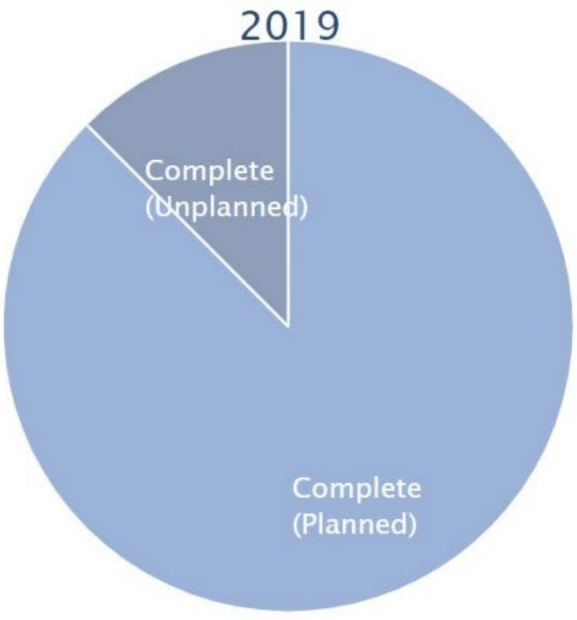
For more information on the FMWG 2025 Webinar Series, visit the FMWG project page on PNAMP.org or send an email to Meg Dethloff, mdethloff@usgs.gov. Image: Logo for the PNAMP Fish Monitoring Work Group 2025 PIT Tag Data and Analysis Webinar Series alt text: fish icon with stream and hill background and webinar title

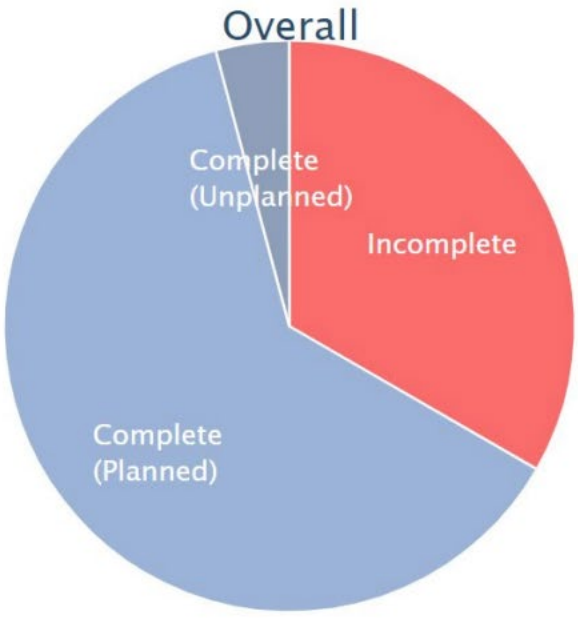
New Tool: Validating Your Data Collection Events in MonitoringResources.org

MonitoringResources.org has always been a useful tool for documenting metadata including the creation of a monitoring plan and a sample design. Planning a sampling event is an essential practice, but just as important is documenting where and when the monitoring actually took place. MonitoringResources.org has a new tool just for that!

MonitoringResources.org users who have documented a Sample Design (the plan for where and when monitoring takes place in a project) can return to MonitoringResources.org after their field work and validate what data collection events actually took place. Validated "actual" events, whether they were planned or unplanned, are then automatically uploaded to the Monitoring Resources Explorer Map where they can be compared side-by-side with other events in the region.

If you've never validated your data collection events, or haven't in a long time, check out the "How to Validate Data Collection Events" tutorial. Image: Pie chart in MonitoringResources.org showing progression of validated data collection events alt text: two pie charts displaying progress from 2019 to overall for validated data collection events in MonitoringResources.org





Stop the Spread: Invasive Species Reporting

The Pacific Northwest is a diverse ecosystem that can be altered by species introduced to areas outside of their native range. Invasive species can reduce biodiversity, alter habitats, and outcompete native species for resources. Some concerning invasive species in the Pacific Northwest include:

- European green crab: Crustacean that preys on native shellfish, disrupting coastal ecosystems.
- American bullfrog: Large amphibian that consumes native aquatic species, impacting food webs.
- Zebra and Quagga mussels: Aquatic invaders that can clog water infrastructure and harm aquatic ecosystems.
- Northern Pike: This invasive fish has been introduced illegally and is very harmful to native fish populations.

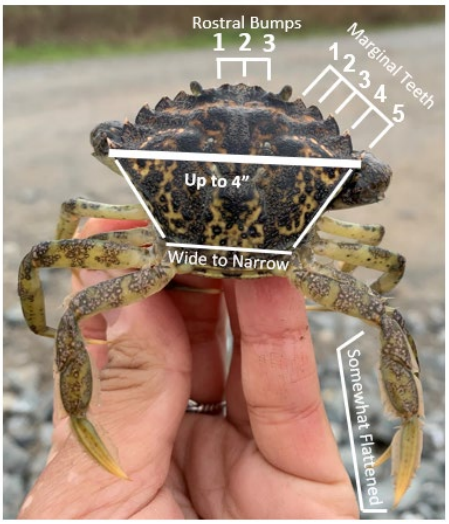
Early detection and rapid response are crucial for controlling invasive species. If you encounter a suspected invasive species, it's important to report it to the appropriate authorities. Here's how you can help:

- Report sightings:
  - **Washington Invasive Species Council**: They provide resources and reporting tools for invasive species in Washington state. You can find information on their website, invasivespecies.wa.gov.
  - **Oregon Department of Fish and Wildlife** (ODFW): ODFW manages invasive species in Oregon. Their website, dfw.state.or.us, provides information on reporting and identification.
  - **Invasive Species of Idaho**: Is a program established by the Idaho State Department of Agriculture. Check out their webpage for more details, Invasive Species of Idaho.
  - **For walleye in Idaho**: Anyone who catches a walleye is asked to kill it, take a photo, and contact Idaho Fish and Game Biologist, Marika Dobos, at the Lewiston Regional Office by email at marika.dobos@idfg.idaho.gov.
  - **Early Detection and Distribution Mapping System** (EDDMapS): This national online system allows you to report invasive species sightings.

- Want to get new species alerts?
  - U.S. Geological Survey Nonindigenous Aquatic Species Program: https://nas.er.usgs.gov/AlertSystem/default.aspx
  - IMAP INVASIVES: https://www.imapinvasives.org

- Other ways to help:
  - Clean and inspect: Clean your boots, gear, and vehicles - especially boats and any water equipment - after outdoor activities to prevent the spread of invasive species.
  - Don't move firewood: Transporting firewood can spread invasive insects and diseases.
  - Learn to identify invasive species: Familiarize yourself with common invasive species in your area.

By working together, we can protect the Pacific Northwest's unique habitats from the threat of invasive species. Image: European green crab identification; courtesy of Washington Department of Fish and Wildlife alt text: hand holding a European green crab annotated with notes on identification features


Rostral Bumps
1 2 3
Marginal Teeth
1 2 3 4 5
Up to 4”
Wide to Narrow
Somewhat Flattened