



PNAMP Quarterly Status Report

April - June 2023

Coordinated Assessments Partnership & HCAX Project

Accomplishments

- The 2023 CAP Workshop ([April 12 – 13, 2023](#)) was attended by 57 participants representing 24 agencies and tribes. Participants represented the broad spectrum of CAP users, from those most familiar with the specific data exchange process, to those collecting and analyzing the data that are exchanged, as well as the primary end users who rely on these data to inform their regional reporting and decision-making processes. Participants in this workshop learned about CAP improvements since the last CAP workshop in 2017 and ongoing opportunities to strengthen the quality of data and ensure their proper use. The workshop concluded with a look into future possibilities of the directions CAP should explore to facilitate data exchange including technological advancements that would streamline the exchange process and support data versioning and citation. CAP Workshop Summary available [here](#).

In Progress

- 2023 CAP Workshop yielded significant input from the multiple break-out sessions that were focused on specific challenges and suggestions. We are in the process of organizing this input into an action plan that will outline what process will be used to tackle which topic.
- HCAX data flow implementation in active testing phase, with staff from multiple entities involved in compiling and sending data working to test data submission via the API.

Coordination and Communication

Accomplishments

- Completed April, May, and June newsletters
- Continued support for StreamNet, including collaborative projects that link the PNAMP Fish Monitoring Work Group and MonitoringResources.org to StreamNet resources.

In Progress

- Initiating working group to explore mechanisms to build on existing data systems and structures to allow for evolution, such as connecting other systems.

CRBRP Toxics Monitoring Subgroup

Accomplishments

- June 6, 2023 Jen Bayer provided assistance to the [Northwest Toxics Summit](#) hosted by the Environmental Law Education Center. Bayer presented a background of toxics monitoring in the region and moderated a panel of experts from federal and Tribal entities currently conducting monitoring for toxics in the Columbia River basin.

In Progress

- Currently, the Core Team is meeting every other week to discuss and work on tasks, including:
 - Preparations for an update to be shared with the NMFS West Coast Region Water Quality Cross Divisional Team Meeting, which is scheduled for August 8, 2023.
 - Completing the first version of a matrix of who's doing what where to support collaboration.
- Planning for a one-day hybrid workshop to be held the first week of December (date and location TBD).

[Fish Monitoring Work Group](#)

Accomplishments

- On April 20, 2023, the full work group convened for updates on tasks and a Tech Talk from Ben Staton, a Quantitative Fisheries Scientist with Columbia River Inter-Tribal Fish Commission. Ben presented some current work from the Grande Ronde: "*Integrated Population Modeling of Grande Ronde Spring Chinook Salmon: Linking Dynamics and Habitat to Monitoring Data via SSMs*" ([event page](#), [meeting recording](#))
- The FMWG Core Team met in May and June to plan and coordinate future work, and to discuss task progress; April meeting was skipped due to full group meeting
- Task Teams Updates:
 - Carrying Capacity Standards
 - Task Leads continue to synthesize and edit the best practices document
 - Fish Management Units Boundaries and Attributes Task
 - Task name changed from Fish Population Names and GIS Boundaries to alleviate any confusion regarding "Fish Population Names" term
 - Product development is in final stages
 - Juvenile Density (Snorkeling and Electrofishing)
 - Dan Isaak's team is currently analyzing partner data submitted in March/April for the FDAT model; he will share results later this year
 - Rotary Screw Trap Data Collection
 - Rotary Screw Trap Data Collection task met on June 27 ([event page](#)) to demonstrate the draft prototype Columbia Basin Screw Trap dashboard from StreamNet
 - Feedback will be reviewed in July
 - PIT Array and Related PIT Tag Analyses
 - Leads continue to develop the task
 - Coordinating potential session at the joint 2024 Washington/ British Columbia Chapter and Idaho Chapter American Fisheries Society Meeting (May 2024) and potential presentation at the upcoming PITAGIS Workshop (January/February 2024)

In Progress

- Rotary Screw Trap Data Collection task will provide feedback to StreamNet on the Columbia Basin Screw Trap dashboard which will be integrated and presented to StreamNet executive committees for review and implementation
- Developing plans for PIT Array and Related PIT Tag Analyses task presentations or sessions at PTAGIS Workshop, and other 2024 events
- Planning for FMWG Quarterly Meeting (October 19, 2023), [event page](#)

[Intensively Monitored Watersheds Forum](#)

Accomplishments

- Held a virtual meeting on June 28 to brainstorm ideas for an IMW session at the 2024 River Restoration Northwest Symposium. The meeting was attended by at least 20 people and resulted in ideas for two sessions and ten potential talks.

In Progress

- Working with Amelia Johnson, Bob Bilby, and other IMW PIs to refine the River Restoration Northwest session proposal and list of potential presentations to submit by the August 1st deadline.

[MonitoringResources.org](#)

Accomplishments

- Finalized and provided feedback to 2 protocols and 14 methods from April 1 to June 30, 2023
- Finalized a Delve/MonitoringResources.org protocol template and used that template protocol to create a [guidance document specifically for DELVE subject matter experts](#)
- Created the [BPA Workflow Guidance Document](#) which helps users with BPA contracts navigate MonitoringResources.org and document content (Study Plans, Protocols, Sample Designs) in a more streamlined and efficient manner
- Improved the documentation of “actual” sampling locations in the Sample Design tool within MonitoringResources.org
 - Improving navigation to Sample Design actuals
 - Enabling users to easily validate planned and unplanned sites
 - Have validated actual sites/data collection events shown on MonitoringExplorer.org
- Coordinated weekly/biweekly meetings with ESA Sitka to discuss current and future development
- Coordinated with BPA staff to determine priorities for 2023 development and plan out 2024 development
- Met monthly with California Department of Water Resources (CA DWR) to discuss next steps in the relationship between MonitoringResources.org and DELVE
- Provided the MonitoringResources.org scheme to Canada DFO and began discussions about creating graph databases to better understand the MonitoringResources.org use cases that may help influence future development
- Provided one-to-one guidance and assistance to MonitoringResources.org users at CA DWR, BPA, ESA, WDFW, and Cramer Fish Sciences
- Updated [training modules](#) specific to documenting methods, protocols, sample designs, and study plans

In Progress

- Putting together a virtual [MonitoringResources.org training/orientation](#) for new and returning users
 - Working on a separate more simplified training for CORs
- Reviewing and finalizing template DELVE protocols
- Coordinating one-to-one meetings with CA Department of Water Resources users for specific user support guidance
- Assisting project sponsors interested in MonitoringResources.org guidance with one-to-one webinar sessions
- Creating new [training videos](#) instructing new users on how to document their metadata with the new BPA workflow in MonitoringResources.org
- Creating a “Getting Started” module for MonitoringResources.org guiding new users on the best approach to documenting their metadata
- Updating the MonitoringResources.org Guidance Document
- Drafting a focused survey of MonitoringResources.org users to gather feedback
- Continuing to investigate how to reuse MonitoringResources.org, StreamNet, and CBfish.org data into a standard metadata format
- Investigating connections between MonitoringResources.org and the Salmon Data Discovery Tool and SalHub

Outstanding Issues

- How do we link the Study Plan Summary to other regional data systems?
- How do we simplify the process for users to enter information in MonitoringResources.org?
- How do we make the Monitoring Explorer map more user-friendly?
- How do we streamline the stylizing and updating of the layers in Monitoring Explorer?

Remote Sensing Forum

Accomplishments

- With Lauren Burns (Ecofish Research), co-led the organization and implementation of the RSF quarterly meeting. The meeting was attended by at least 33 people. Meeting recording [here](#). Featured presentations by:
 - Dr. Sarah Hoffmann (Merck Animal Health): *Smart Salmon Database: A collaborative platform for salmon habitat data sharing and insights* ([abstract here](#))
 - Chris Crosby (OpenTopography): *OpenTopography: Enabling Access to High Resolution Topography* ([abstract here](#))

In Progress

- Planning the next quarterly RSF meeting for July 2023.
- Establishing an email discussion group
 - Email everyone in a group with a single email address
 - Share remote sensing events, papers, and news
 - Ask a question, get responses from the community
- The RSF Organizing Committee continues to work on drafting an entry level remote sensing best practices document.

[Stream Habitat Metric Integration Project](#)

Accomplishments

- Lessons learned manuscript is in final stages of review at Environmental Monitoring and Assessment journal. The novel integrated data products are published on the USGS ScienceBase data repository and code is published via USGS GitLab repository. The dataset and code are available here:
 - ScienceBase link for dataset: <https://www.sciencebase.gov/catalog/item/5e3c5883e4b0edb47be0ef1c>
 - GitLab link for code: <https://code.usgs.gov/ecosystems/FRESC/shmi-des>

In Progress

- Review of the report that will describe methods, the data standard, and the controlled vocabulary is just beginning the peer review process. This will ultimately be a USGS Methods & Techniques Series report published by USGS.
- Discussions regarding sharing monitoring events from the SHMI partners via Monitoring Explorer are suggesting that in FY24 we will be able to publish those sites and link to metadata in Monitoring Resources as well as each program's web resources.

[Steering Committee Meeting Series](#)

Accomplishments

- Organized and facilitated the June 21, 2023 PNAMP Steering Committee Meeting ([event page](#), [meeting notes](#)) which focused on annual work planning

In Progress

- Completion of the annual work plan and related funding agreements for FY24
- Organization requirements for USGS realignment of PNAMP staff to the USGS Forest and Rangeland Ecosystem Science Center (FRESC)