



NEWSLETTER

Fall 2023

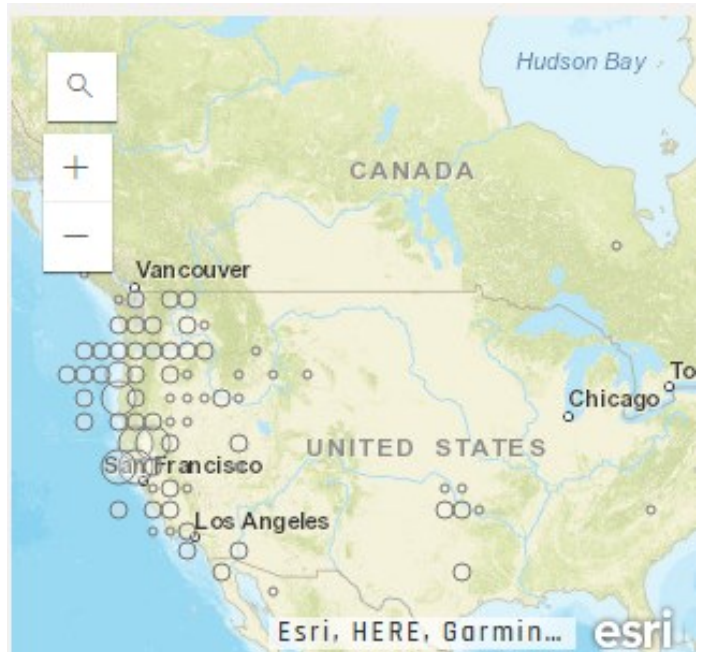
West Coast Ocean Data Portal

The West Coast Ocean Data Portal is a West Coast regional ocean planning resource. The goals are to promote data discovery and to connect and inform ocean users.

State, federal, and tribal members of the Regional Ocean Partnership, the West Coast Ocean Alliance, have identified the need for a west-coast-wide regional perspective on ocean health instead of state or location-specific. Further, regional data products can aid in developing a common language for reporting status and trends on the West Coast.

One of the upcoming priorities is to work with tribes to understand better how our portal can serve their needs. The portal does not store data and is very customizable for privacy and confidentiality, making it an excellent match for adapting to Data Sovereignty needs.

For CAX members specifically, the Marine Planner online data visualization tool allows users to privately connect their own layers and overlay them with layers in the portal without requiring desktop GIS software (<https://portal.westcoastoceans.org/visualize/>). Additionally, in the future, users will be able to view and overlay their data with the region-wide ocean health data products from the Ocean Health Dashboard project (see page 3). To learn more about our portal, visit us at <https://portal.westcoastoceans.org/>. Article provided by [Laura Bliss](#), West Coast Ocean Alliance.



WEST COAST OCEAN
DATA PORTAL



Indigenous Data Sovereignty: How to CARE?

Sheryn Olson, Columbia River Inter-Tribal Fish Commission



Tribal ways of seeing passed down through generations, Traditional Knowledge Systems and the knowledge collective are increasingly acknowledged as ways to a better understanding of ecological systems than western science alone, when combined with western science.¹ An indigenous long view of ecological systems and effective experiences of natural resources stewardship contributes to Traditional Ecological Knowledge (TEK or TK). The incorporation of social, spiritual, and cultural influence emphasizes the importance of how to manage harvested resources for sustained abundance.² Traditional knowledge and ways of seeing are becoming a way to make what is old and traditional new, as these knowledge systems are incorporated with western science.

But, as open data and open science have become a standard of scientific process, Indigenous Data Sovereignty has emerged as a concern for appropriate use of data collected or managed by tribal organizations on tribal lands.

It's helpful to distinguish between data sovereignty and data governance. Data sovereignty refers to the right of a nation to “govern the collection, ownership and application of data”³ concerning the tribe or its members and to control data that is housed

within tribal territory. Data governance is considered a tribal government’s right to control the use or reuse of tribal data by third parties, even if the data was gathered in the context of earlier research studies.⁴

Formalizing systems of Indigenous Data Sovereignty, Data Governance, and TK have led to the concept of CARE Data. Though scientific data management with FAIR principles has been accepted globally as a standard since 2016, how can we simultaneously employ these concepts? Are these concepts in conflict? One way to begin to operationalize CARE concepts is to use TK labels, or metadata to tag data with e.g., provenance, cultural significance of data – such as first foods type or season, and to acknowledge place-based local authority for datasets. CARE principles apply to more than a given dataset; the processes of data collection and handling and possible cultural influences of those processes need consideration. Stephanie Russo Carroll has suggested ways to begin to implement CARE principles.⁵ To learn more, see S. Carroll’s webinar, “Indigenous Data Sovereignty and the Open Access Movement”, or contact me at solson@critfc.org.

See citations on page 3.

Practice 'CARE' in data collection	Engage 'CARE' in data stewardship	Implement 'CARE' in data community	Use 'FAIR' with 'CARE' in data applications
Define cultural metadata	Use appropriate governance models	Indigenous ethics inform access	Fairness, Accountability, Transparency
Record provenance in metadata	Make data 'FAIR'	Use tools for transparency, integrity and provenance	Assess equity

Coordinated Assessments Data Exchange (CAX)

6

High-level Indicators

250

Populations and other groupings

198

ESA Listed Populations

84

Year Range spanned by HLIs

<https://cax.streamnet.org/>

WEST COAST OCEAN HEALTH DASHBOARD

The Ocean Health Dashboard project is a prime example of the West Coast Ocean Alliance's effort to promote West Coast-wide data sharing, collaboration, and region-wide data products on priority ocean health issues. The ocean health indicators currently in progress include the following: kelp, ocean acidification, harmful algal blooms, and coastal access.

The recent kelp expert workshop convened 12 state, federal, academic, and non-profit kelp researchers from California, Oregon, and Washington. The workshop participants successfully identified the key data for understanding kelp abundance changes on the West Coast. Also, they determined the best way to create a region-wide data product for kelp and communicate kelp status to various audiences, such as legislators and the general public. As the Ocean Health Dashboard project continues, expert workshops will be convened for each indicator to promote region-wide scientific collaboration and consensus.

How to CARE? Cont.

1 FiveCrows, Jeremy, Aja DeCoteau, Jon Hess, Doug Hatch, Shawn Narum. 2023. Sharing biological information across generations: Parallels between indigenous knowledge and genetics for fisheries recovery in the Columbia River Basin Molecular Ecology Resources. <https://doi.org/10.1111/1755-0998.13815>

2 Clam Gardens: An Indigenous Community-Driven Climate Adaptation Strategy to Manage Aquatic Species and Habitats in the Pacific Northwest. Climate Adaptation Science Centers.

3 Rainie, Stephanie C. et al., Data as a Strategic Resource for Self-Determination, Governance and the Data Challenge for Indigenous Nations in the United States, 8 INT'L INDIG- ENOUS (2017).

4 Snipp, C. Matthew. "What does data sovereignty imply: What does it look like." Indigenous data sovereignty: Toward an agenda (2016): 39-55.

5 Russo Carroll, S, Edit Herczog, Maui Hudson, Keith Russell, Shelley Stall. 2021. Operationalizing the CARE and FAIR Principles for Indigenous data futures. Nature Scientific Data. 8:108 | <https://doi.org/10.1038/s41597-021-00892-0>



Recent CAP Accomplishments

- **CAP Workshop Success** The [2023 CAP Workshop](#) provided a chance to catch up on improvements since the 2017 workshop and ask for feedback to strengthen the quality of CAP data and ensure their proper use and citation needs. Thanks to our 57 participants, significant input was received - see the [CAP Workshop Summary](#) for a brief overview. Staff are currently developing detailed action plans to apply this input.
- **HCAX Project Progress** The [HCAX Project](#) is actively testing data flow, with staff from multiple entities involved in compiling and testing data submission via the API. Stay tuned for details about our final HCAX Workshop coming up next spring!
- **Outreach Shares CAP with Many** CAP Outreach this year included presentations at AFS Annual Meeting in Grand Rapids and the Washington GSRO's Salmon Recovery Conference. This helps us share our work with others and creates opportunities to learn from colleagues outside the Pacific Northwest.
- **Northwest Power and Conservation Council Fish and Wildlife Committee** Two presentations were provided as part of the Council's agenda item Supporting the Fish & Wildlife Program that included information on CAP progress: [StreamNet Program](#) and [Pacific Northwest Aquatic Monitoring Partnership](#)

CAP Participants

participants vary in their level and degree of involvement



To Learn More

CAX Data Query Mapper: <https://cax.streamnet.org/>

CAX DES: <https://www.streamnet.org/coordinated-assessments-des/>

Five-Year Plan for Coordinated Assessments Partnership: <https://www.streamnet.org/five-year-plan-for-coordinated-assessments-20190731-revised-nov2022/>

Additional CAP Documents:

Technical: <https://www.streamnet.org/data/coordinated-assessments/>

Events and background: <https://www.pnamp.org/project/coordinated-assessments-for-salmon-and-steelhead>

StreamNet: <https://www.streamnet.org/>

StreamNet Committees: <https://www.streamnet.org/committees/>

PNAMP: <https://www.pnamp.org/>

PNAMP Fish Monitoring Workgroup: <https://www.pnamp.org/project/fish-monitoring-work-group>

For more information on upcoming meetings or general information:
gs-pnamp_contact@usgs.gov

For CAP Fish HLIs data and technical assistance:
project@streamnet.or