

Community Monitoring for Chignik Fisheries: Tools for Local Leadership

Indigenous Sentinels Network (ISN) Empowering Indigenous-Led and Community-Driven Environmental Monitoring



Chignik Regional Resiliency Symposium
June 26th 2025

Chris Tran
Aleut Community of St. Paul Island
Community Research Lead
cctran@aleut.com

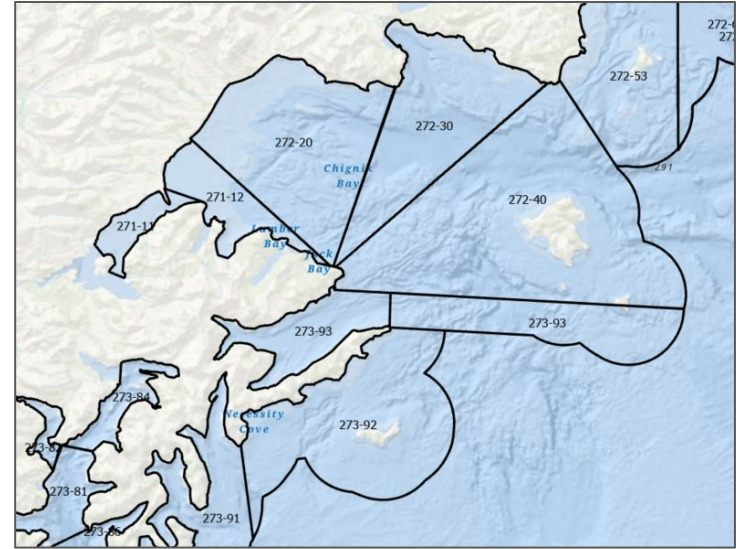


Hannah-Marie Ladd
Aleut Community of St. Paul Island
Program Director, Indigenous
Sentinels Network
hladd@aleut.com



Why We're Here - Chinook Monitoring

- Chinook Fisheries Management and Monitoring
- Salmon is foundational for our communities culturally, nutritionally, economically
- Regional shifts and harvest restrictions are raising concern
- Communities are exploring ways to strengthen local data and stewardship tools



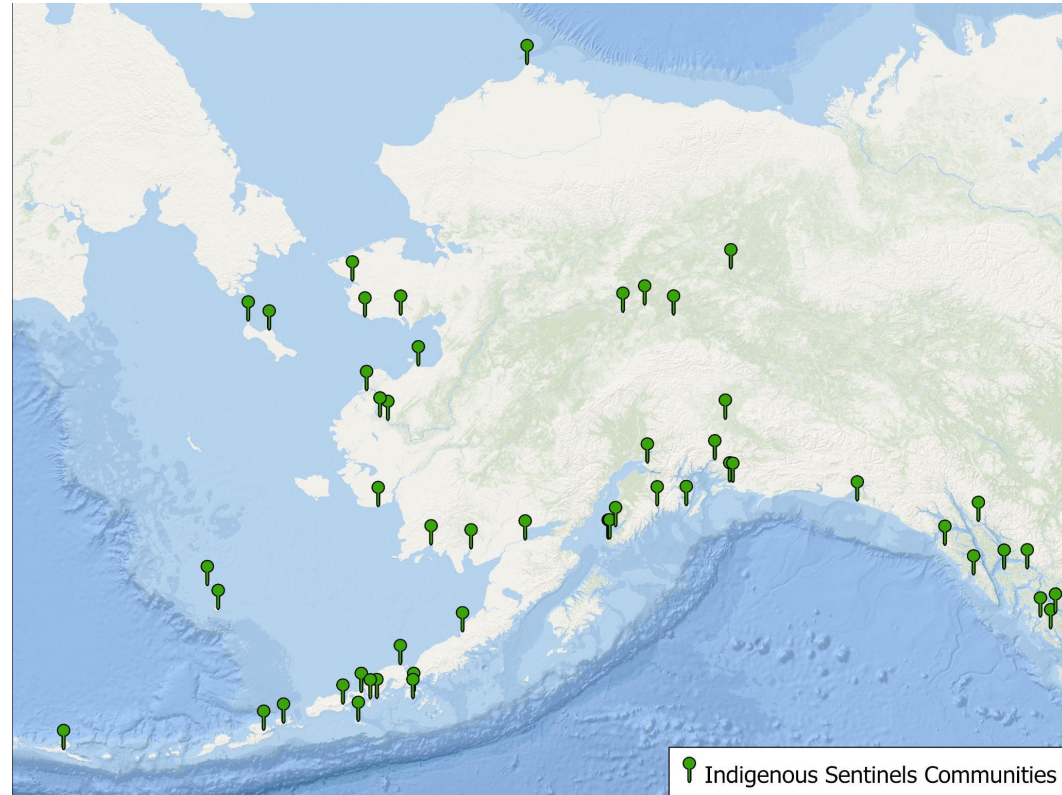
Who's Involved

- **Chignik Intertribal Coalition (CIC):** Leading the local vision
- **Aleut Community of St. Paul Island (ACSPI):** Tribal government stewarding Indigenous Sentinels Network
 - Ecosystem Conservation Office
 - Business and Economic Development Department - Indigenous Sentinels Network (ISN)
- **ACTION Project Partners:** Supporting resilience, co-learning, and climate adaptation



How ISN is connected to ACTION and CIC

- ISN was established by and for Indigenous peoples
- ISN's mission is to empower communities to lead in environmental monitoring and research and is a tool available to ACTION communities
- ACTION Project



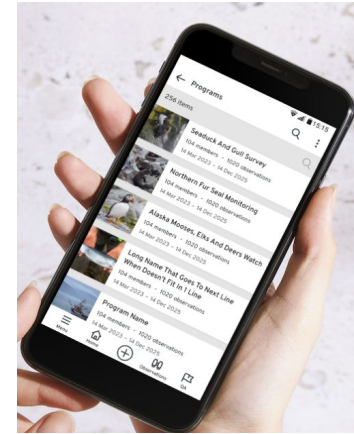
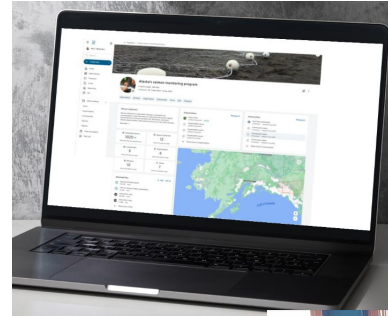
ISN provides access to:

Software: *to design and implement community-driven environmental monitoring programs*

- Online privacy-protected database
- Data collection mobile applications

Programmatic Support and Consulting: *to ensure sustainable solutions*

- Grant Writing and Collaboration
- Partnership Development
- Science Communication and Storytelling Support
- Data Protection and Data Sharing Training
- Training, Education, and Outreach



Why Collect Fisheries Data?

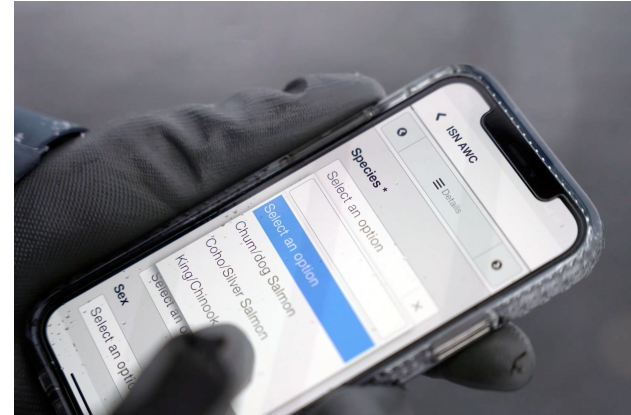
- CIC is leading efforts with the ACTION Project and other efforts to explore new pathways for community-based fisheries monitoring
- Gathering local harvest and effort data can support future planning
- Monitoring helps build local capacity, continuity, and long-term stewardship
- Data can complement regional information and help tell a fuller story



Chignik Data Collection Tool - Building with ISN

Working with CIC to draft the Chignik Salmon Monitoring (survey) Form

- Tracks subsistence, sport, and commercial fisheries
- Includes gear, location, species, effort, and catch data
- Configured for Chignik's gear types and areas



Chignik Data Collection Survey Form - Building with ISN

Section	Field Name	Input Type
Catch Context	Fishery Type	Drop-down
	Gear Type	Conditional drop-down
	Set Number	Text input
	Date & Time	Auto + editable widget
Gear Details	Net Length	Text input (Fathoms)
	Net Depth	Text input (Meshes Deep)
Species Info	Salmon Species	Checkboxes
	Catch Count per Species	Numeric input
	Other Species	Checkbox + text field
Location Details	Statistical Area	Drop-down OR map selector
	Drop a Pin (<i>optional</i>)	Map-based single point
	Draw a Polygon (<i>optional</i>)	Map-based area selection
	Pull GPS Point (<i>optional</i>)	Auto or manual input
Comments & Multimedia	Comments	Text input
	Upload Image	File input
	Record Audio	Voice note

Chignik Data Collection Survey Form - Building with ISN

The app is online. Toggle to go offline. ☒

← CIC Chinook Salmon Form v3

Fishery

Select

Search

Commercial

Subsistence

Sport

Set number

Set Date/Time

DD/MM/YYYY HH:MM:SS

1/4 Next →

Net Length (fathoms)

Net mesh depth

Salmon species caught

☐ Chinook (King)

☐ Sockeye (Red)

☐ Coho (Silver)

☐ Pink (Humpy)

☐ Chum (Dog)

1/4 Next →

Statistical Area Viewer

Statistical Area

2/4 Next →

Location - Polygon

Draw a Polygon

Enter Point Name

4/5 Next →

Comments and photos/videos

Comments

Audio Comments

00:00

Photos or Video

Click to Choose a File

4/4 Submit

The Backend: Database & Desktop Tools

Where the Data Goes

- Real-time sync (when connected to signal) to community-owned database
- Accessible dashboards for analysis + reporting
- Flexible enough to adapt to CIC's future needs

Co-development process with CIC

- ISN Chinook Monitoring flexible and responsive to the needs of CIC
 - Weekly working sessions with CIC and ISN team
- Aligned with ACTION's 3 Pillars:
 - Enhance Communication
 - Advance Applied Science
 - Build Technical Capacity



Next steps

Training, Testing & Community Engagement

- Still in planning stage - CIC is leading the rollout
- Next training phase: Summer - Fall 2025
- Onboarding observers - Feedback and Training
- Testing the tool and collecting data this Summer/Fall

Want to get involved?

Chris Tran, Aleut Community of St. Paul Island

cctran@aleut.com

George Anderson, Chignik Intertribal Coalition

g.anderson@chignikcoalition.org



Thank you!

Questions or Ideas?

- What would make this tool most useful for your community?



Want to get involved?

George Anderson, Chignik Intertribal Coalition

g.anderson@chignikcoalition.org

Chris Tran, Aleut Community of St. Paul Island

cctran@aleut.com

