

Project Overview

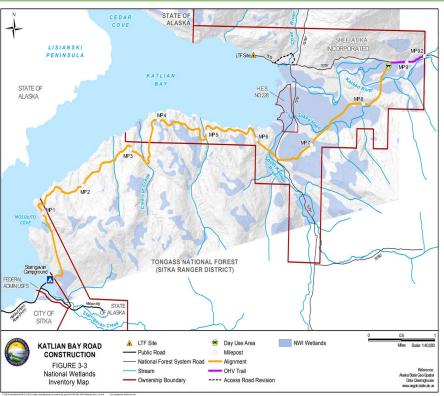
- In 2021, BBNC was awarded \$1
 Million from the National Fish and
 Wildlife Foundation America the
 Beautiful Challenge Grant
- The project included a wetland mapping component and an outreach and education component





Why do we need wetland maps?





The National Wetlands Inventory (NWI)

- Improving data accuracy
- NWI use for planning/ decision making
- Public use





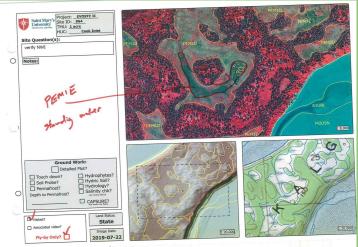
Previous wetland data

Most recent data

Mapping Status

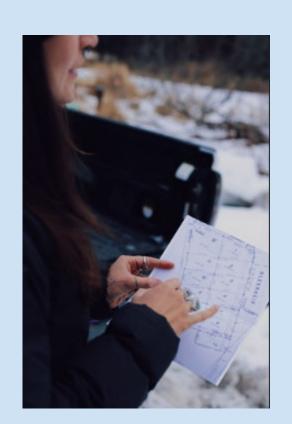
- <u>2021</u> Identified a priority data gap as the Bristol Bay Fisheries Reserve (BBFR)
- 2022 Mapping began
- <u>2023-2024</u> Field work
- 2023-2025 Outreach and Training
- 2026 Final data available

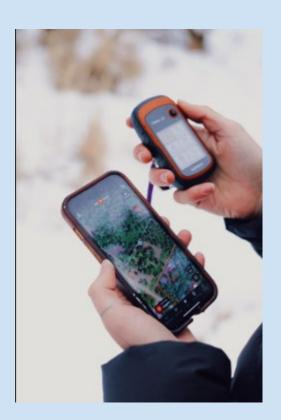




Capacity Building in the Bristol Bay Region

- ENVI 250 Introduction to Community Geographic Information Systems
- Informational meetings in communities
- Created two BBNC internships to help produce community wetland maps
- Created two BBRCTE High school interns who are updating wetland maps.

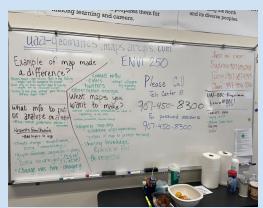




GIS Training - Experience as a student

- Learn about the advancements in geospatial systems
- Apply concepts to relevant topics
- Network with professionals







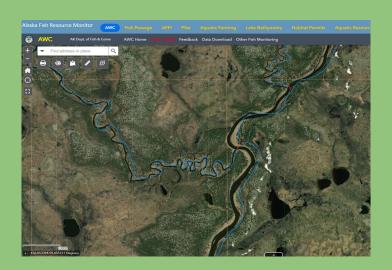
GIS Training In Bristol Bay

- Share real life experiences
- Create internship and job opportunities
- Advocate for Bristol Bay youth and professional needs



Future opportunities using geospatial wetlands data

- Science and conservation support
 - Habitat suitability models
 - Forage availability by wetland type
 - Salt marsh migration
 - Carbon storage





- Quantify potential salmon habitat
 - Document known wetland salmon habitats
 - Explore and model system connectivity

Summary

- Wetlands data will be available through the NWI public portal for use
- Maps can be generated on the web, or in GIS to support conservation efforts of our remarkable region
- Want this project to set the stage for future geospatial training and jobs
- Want this project to be a catalyst for what is possible!



Questions:

- What are the main types of wetlands in Chignik area?
- How were the wetlands identified?
- What type of satellites were utilized in this project?





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