

An aerial photograph of a river floodplain area, likely the Skagit River in Washington. The image shows a network of waterways, fields, and some built-up areas. A large, semi-transparent dark rectangle is overlaid on the center of the image, containing white text. Several white plus signs are scattered across the map, particularly along the river channels and floodplain areas.

Mapping Seasonally Disconnected Floodplain Habitats for Juvenile Chinook in the Skagit River, WA

IB 516 Analytical Workflows
Fall 2021
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Background

- Master's student in Fisheries Science
- Been working in the Skagit River for 3 years
- Finishing first season and organizing data
- First year grant deliverable due soon

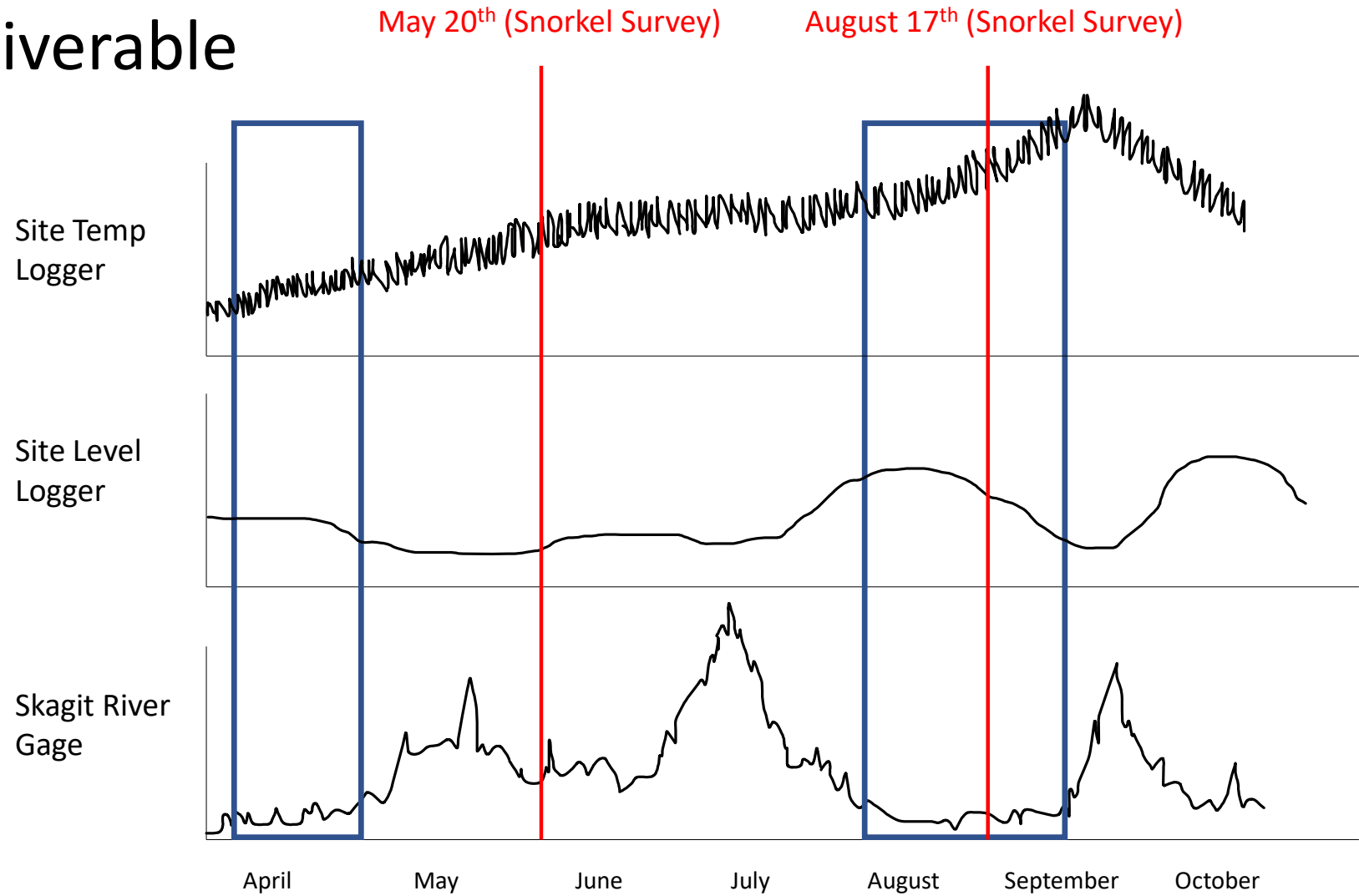




Project Significance

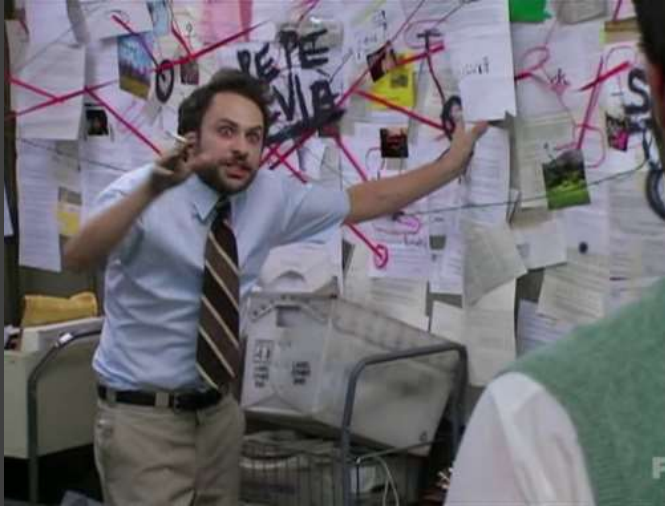
- Skagit River Chinook are “threatened” under ESA
- Freshwater rearing habitat is a limiting factor for stream type Chinook
- Rearing potential of seasonally disconnected floodplain habitat not studied
- 1st year is reconnaissance

Deliverable



Benchmarks

- Finish field season
- Use timelapse footage/recon to estimate days of disconnect
- Organize temporal data for sites



Challenges

- All the sites are very different
- Some sites have more/different data than others
 - Timelapse camera vs. site checks
 - Formal surveys with habitat measurements vs. opportunistic measurements
- Building a visual that is informative but not overwhelming