



Yukon Fish Community of Practice

The Yukon Fish Community of Practice: Speaker Series was formed to connect the Northern community of fish enthusiasts, researchers, anglers, industry, and the public. Virtual presentations will be held on Google Chat each Wednesday on various fish-related topics in the North. Presentations will run over lunch from 12:00 until 12:25, after which point there will be an open discussion period. We encourage lively and respectful conversation following presentations!

All are welcome and encouraged to tune in (or to present!).

Drivers and Diversity of Chinook Salmon in the Arctic-Yukon-Kuskokwim Region

March 22, 2023 - 12pm (-7GMT, Yukon Time)

Megan Feddern, University of Alaska Fairbanks

Link to attend: <https://meet.google.com/fxw-cxqd-vvz>

**Please provide your name and affiliation to be admitted to the presentation.*

Recent declines in the abundance of many Chinook salmon populations have caused severe hardship in the Arctic-Yukon-Kuskokwim region. Given the rapidly changing ecosystems in this region, it is important to understand how conditions in freshwater and marine environments impact Chinook salmon productivity throughout their life cycle and whether populations respond synchronously or asynchronously to conditions across watersheds. To address this problem, we quantified the effects of environmental and ecological drivers on the productivity of 26 Chinook salmon populations in the AYK. Some drivers were associated with the productivity of individual watersheds. Other drivers, such as summer sea surface temperature, impacted the productivity of most population units similarly throughout the entire region. Our results highlight the diversity in salmon-environment relationships across the AYK.



Megan Feddern, Ph.D
University of Alaska Fairbanks

The Yukon Fish Community of Practice Group is an informal/non-affiliated group with the sole purpose of sharing fisheries information in the North. Please contact Petra Szekeres - pszekeres@edynamics.com or 867.393.4882 if you are interested in presenting or would like to be added to the distribution list.