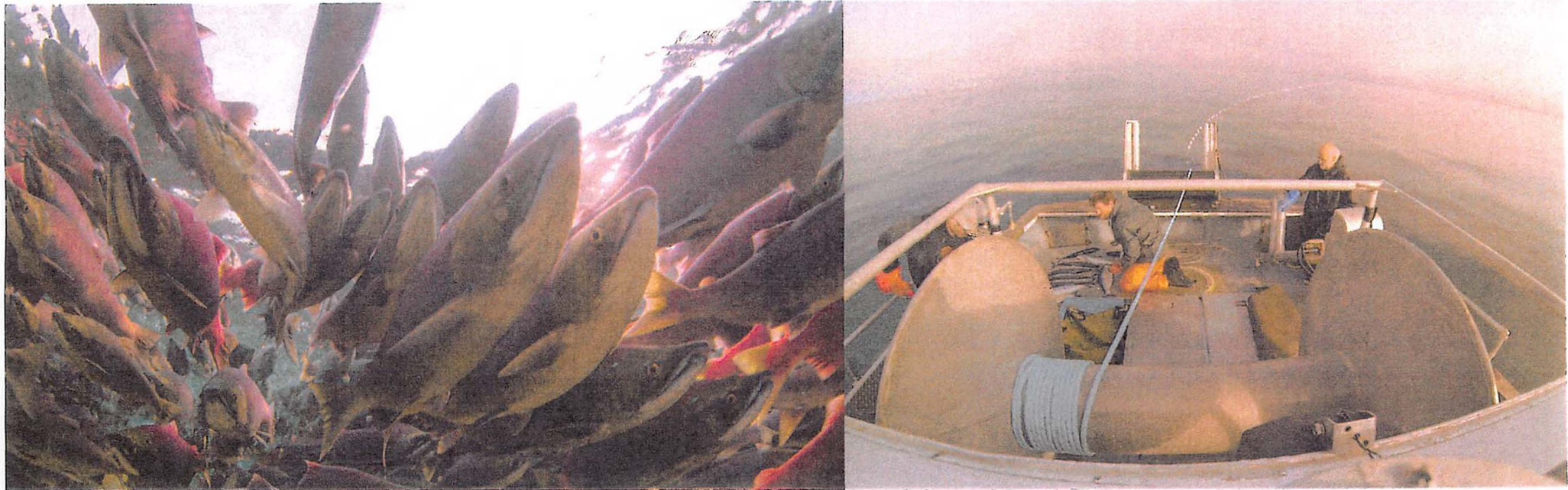


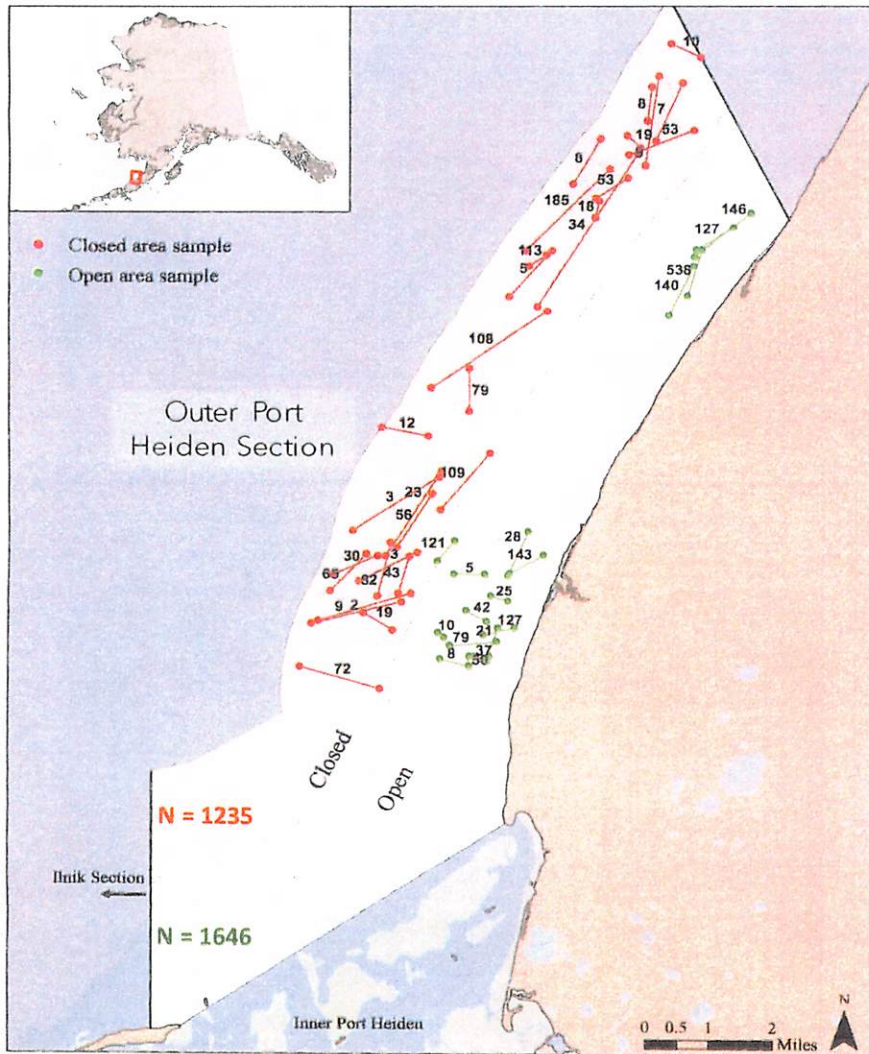
## Stock Mixtures and Partial Area Closures in the Outer Port Heiden Section of the North Peninsula Salmon Fishery



Univ. of WA – Alaska Salmon Program

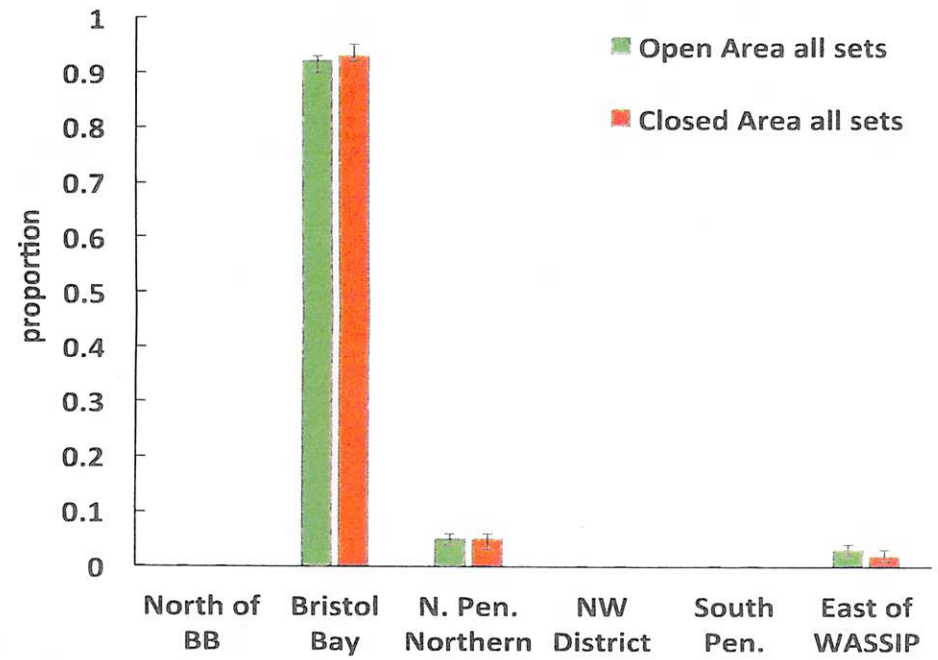
*Chris Boatright, Lisa Seeb, Wes Larson,  
Tim Cline, and Ray Hilborn*

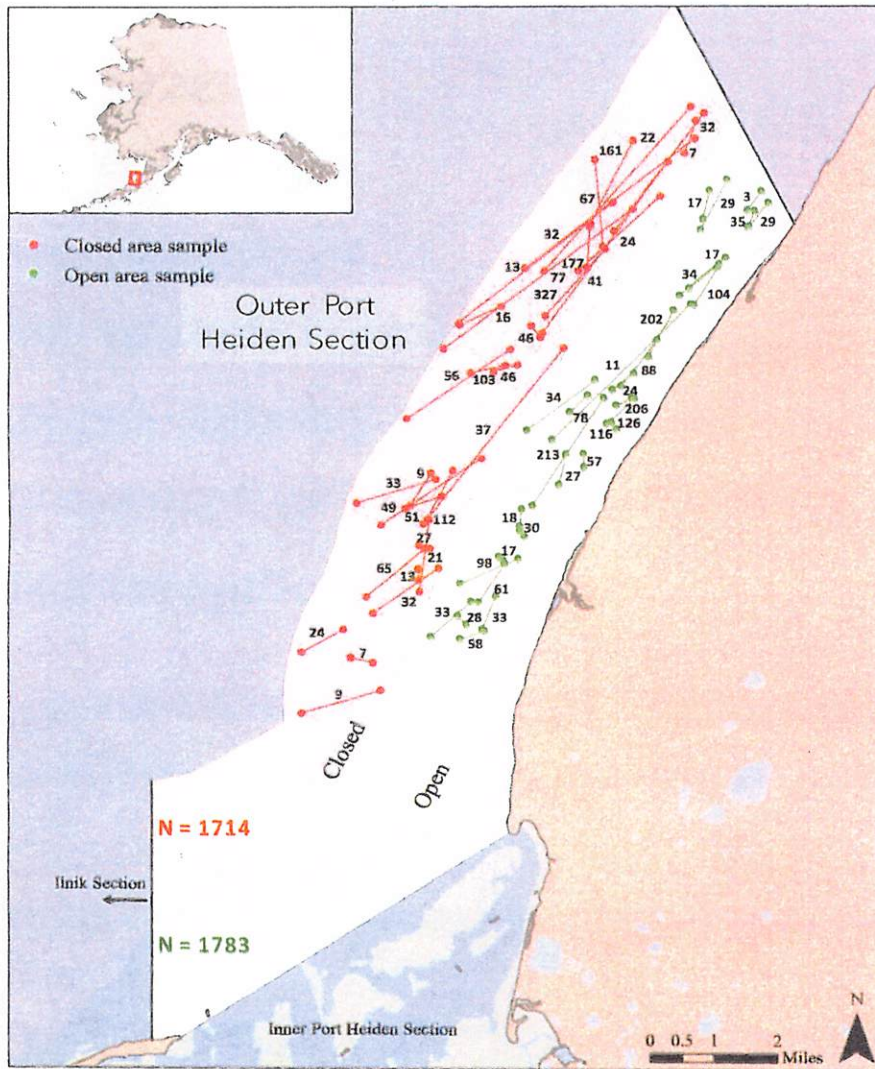
Prepared for the Bristol Bay Science and Research Institute



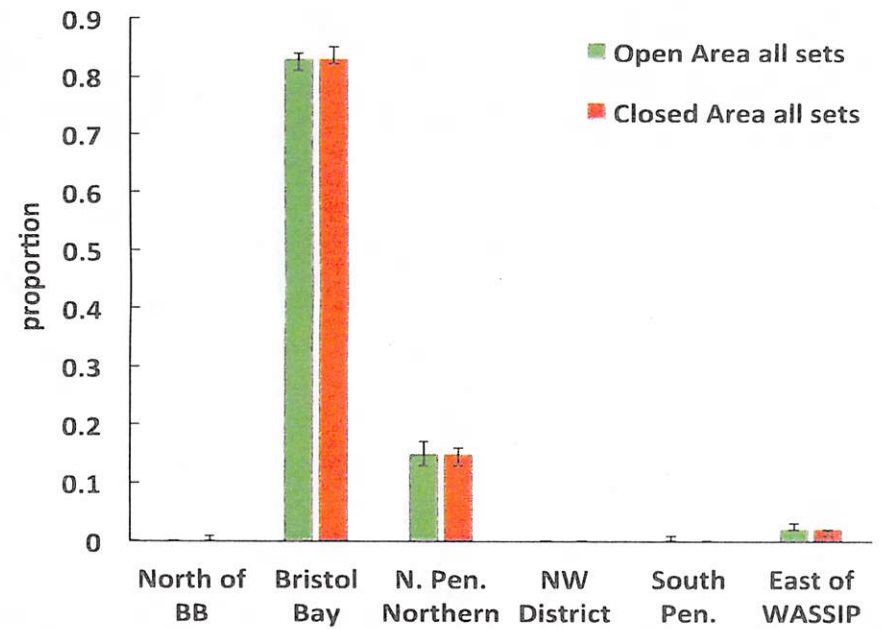
Sources: National Oceanic and Atmospheric Administration (U.S. Maritime Limits and Boundaries & RNC 16343)  
 Author: Mathias Messenger; Date:11/10/2015; Alaska Salmon Program, School of Aquatic and Fishery Sciences (SAFS), University of Washington, Seattle

Outer Port Heiden 2014  
 June 28 - July 16





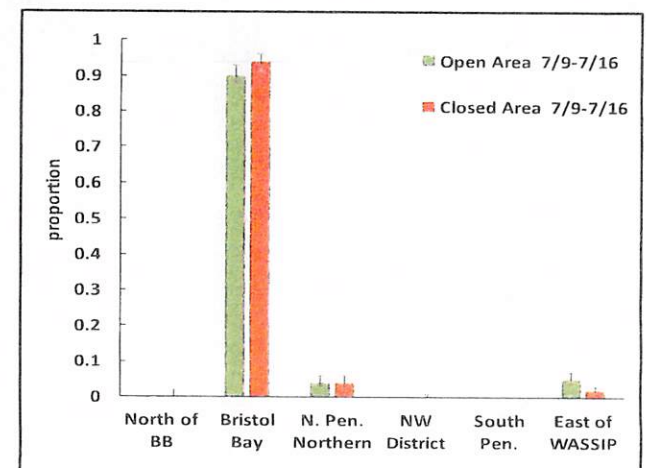
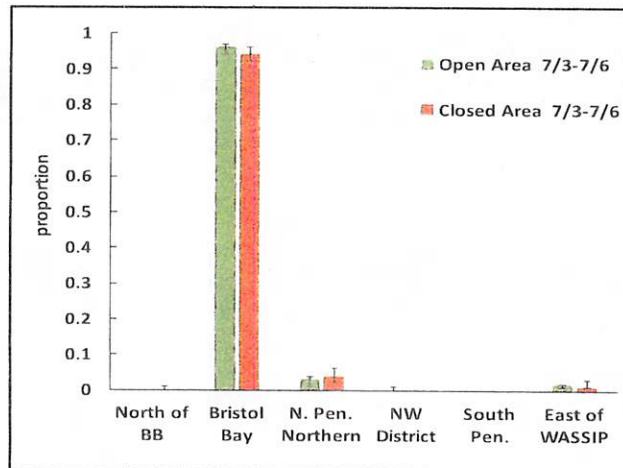
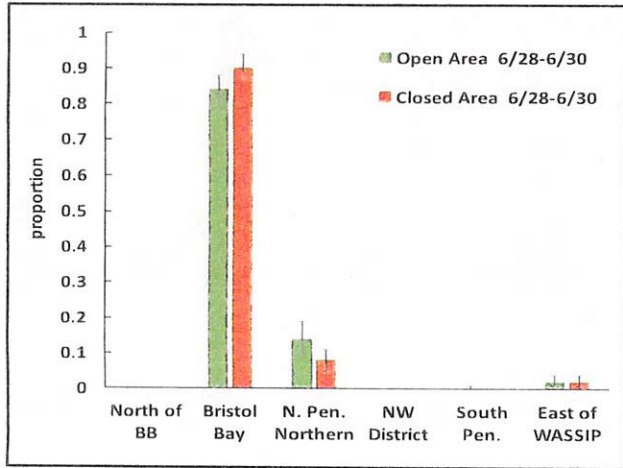
Outer Port Heiden 2015  
June 23 - July 15



Sources: National Oceanic and Atmospheric Administration (U.S. Maritime Limits and Boundaries & RNC 16343)  
 Author: Mathis Messenger, Date: 11/02/2015, Alaska Salmon Program, School of Aquatic and Fishery Sciences (SAFS), University of Washington, Seattle

# Comparison of Sockeye Stock Mixtures in Open and Closed Areas of Outer Port Heiden

2014

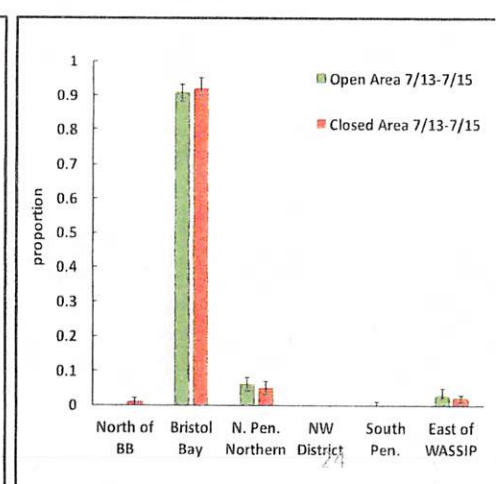
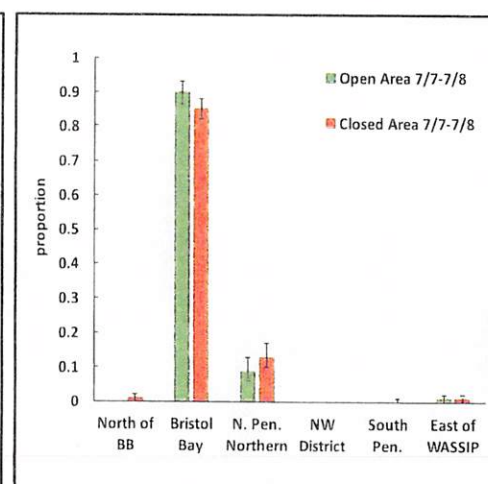
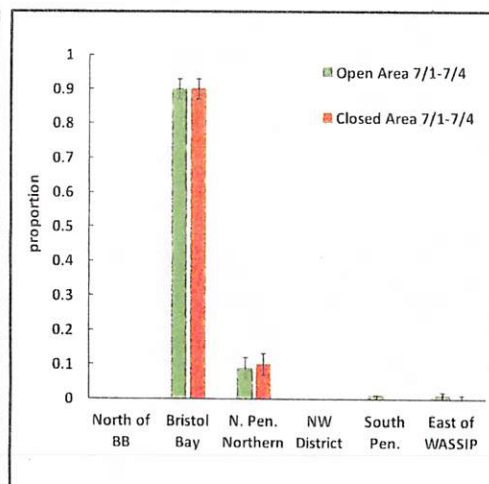
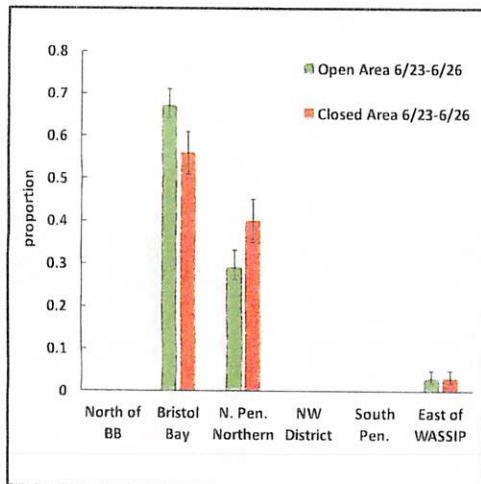


Early

Middle

Late

2015



## Primary Observations - Conclusions

- 1) Methods the same as WASSIP
- 2) No stock composition differences between Open and Closed areas
- 3) Range of estimates consistent with WASSIP - Bristol Bay greatest representation in samples
- 4) Composition of stocks does change as season progresses (by time period), again consistent to WASSIP results