

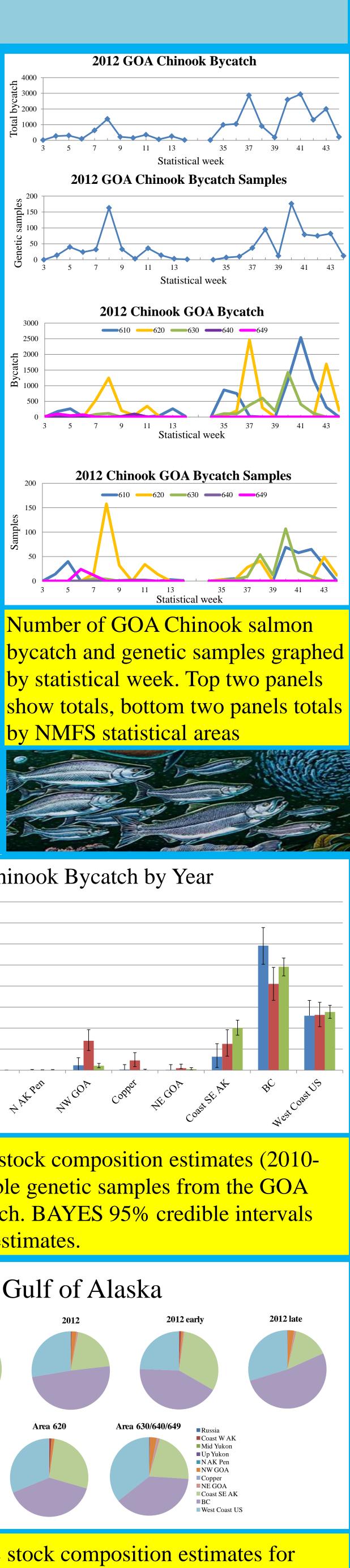
Genetic Stock composition estimates of Chinook salmon incidentally taken as bycatch in the 2012 Bering Sea and Gulf of Alaska Trawl Fisheries Charles M. Guthrie III, Hanhvan Nguyen, and Jeffrey R. Guyon



Results (BAYES) suggest that 88% of the 759 samples from the "A" season originated from Alaskan river systems flowing into the Bering Sea with the Coastal Western Alaska stock contributing the most (68%), followed by the North Alaska Peninsula (16%), and Upper Yukon (3%). The other major contributor was British Columbia (7%). For the "B" season, over 53% of the 352 samples originated from Alaskan river systems flowing into the Bering Sea with the Coastal Western Alaska region In 2011, systematic random sampling was implemented in the BSAI prohibited contributing the most (52%). This was followed by the West Coast U.S. stock (17%) and British species catch. The observed genetic sampling rate in 2012 was 9.8%, close to the Columbia (15%). For the entire year, an estimated 77% of the bycatch samples were estimated to be 10% goal. Opportunistic sampling was employed for the collection of the GOA from Alaskan river systems flowing into the Bering Sea with the Coastal Western Alaska stock Chinook salmon bycatch genetic samples. The sample set in 2012 is larger than the contributing the most (63%), trailed by the North Alaska Peninsula (11%). Other contributors were two previous years combined at 948, a 5% sampling rate. The lack of representative British Columbia (10%) and West Coast U.S. (7%). samples hinders calculating statistically reliable stock composition estimates.

Acknowledgements: Genotyping for this analysis was funded partially by the North Pacific Fishey Research Foundation, and the group structures used in this study. Thanks to Ray Troll for the salmon picture. The findings and conclusions in this poster are those of the authors and do not necessarily represent the views of the National Marine Fisheries Service, NOAA

NOAA/NMFS/Auke Bay Laboratories 17109 Pt Lena Loop Rd, Juneau, AK



2010-12 based on available genetic samples from the GOA Chinook salmon bycatch. Panel A shows comparisons across time. Panel B shows comparisons between NMFS Statistical Areas in 2012. The same genetic baseline and regional groupings were used in all analyses