



WEST COAST SALMON GENETIC STOCK IDENTIFICATION COLLABORATION

2011 Winter Season Update

In 2011, we again collected standardized data in Washington, Oregon, and California. Sampling was conducted from May until mid-October 2011, and we are working on the data analysis. We are now preparing for our 2012 sampling season.

Figure 1 (right). Washington State 2011 Results. Distribution of catch of various stocks of Chinook salmon caught on the Washington coast. This represents 755 individual samples.

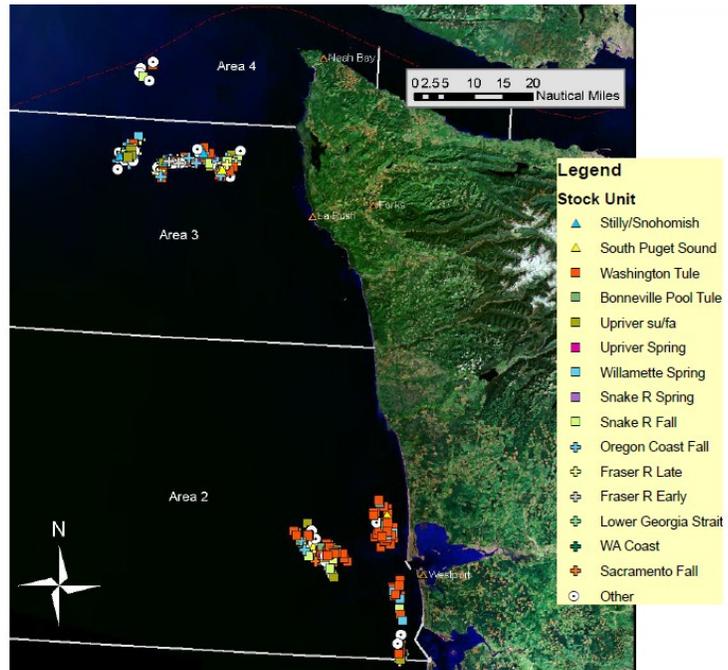
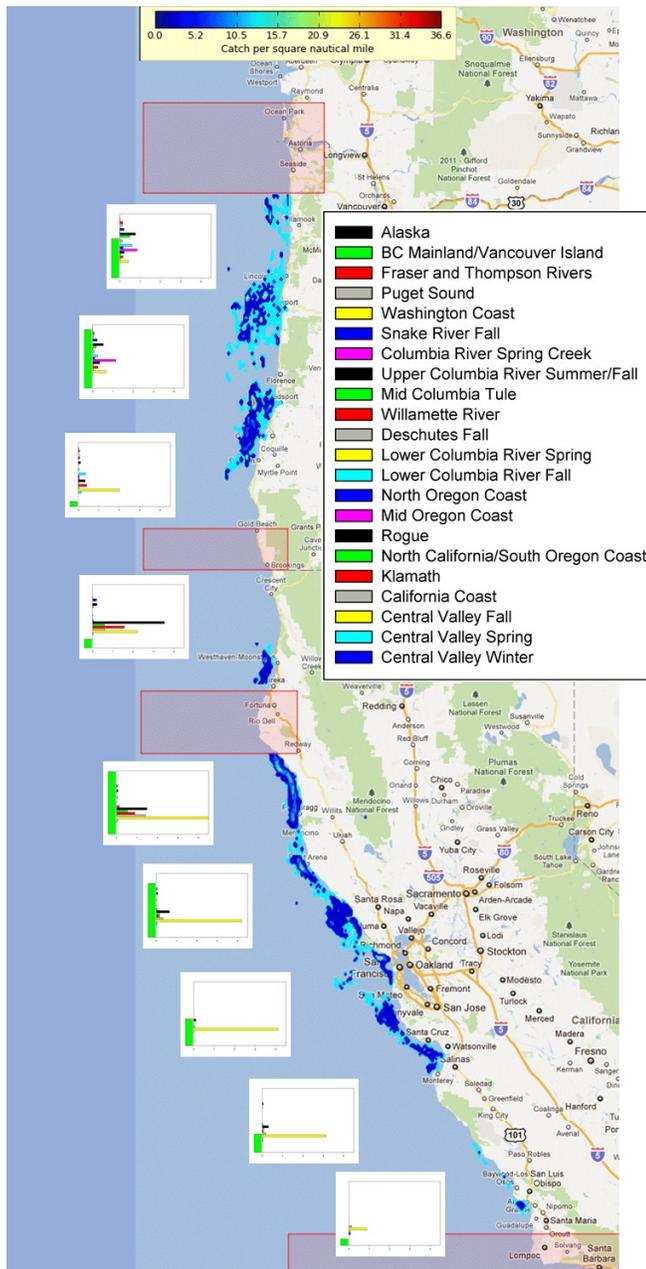


Figure 2 (left). Oregon and California 2011 Results. Horizontal bars show stock-specific catch per unit effort (CPUE) from Santa Barbara, CA to Tillamook, OR. The vertical green bar displays sampling effort. Locations of effort (light blue) and catch (dark blue) are mapped. Scales are linear. This chart represents over 10,000 samples. (Note: catch data in red boxes are not mapped to protect privacy where fewer than 3 fishermen participated.)

West Coast Genetic Stock Identification Collaboration is a working partnership between fishermen, scientists, and managers in Washington, Oregon, California, and Idaho that benefits fish and strengthens west coast salmon fisheries by protecting weak stocks, providing sustainable harvest, and improving economic opportunities and fishing practices through better understanding of stock specific ocean distribution and migration patterns of salmon.

Please see the reverse side to learn more.

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Project Goals

- Goal 1: Improve understanding of the ocean ecology of salmon by integrating stock-specific distribution patterns over space and time with biological and environmental data.
- Goal 2: Integrate multiple disciplines to develop and apply new scientific technology to improve fisheries management strategies across geo-political boundaries.
- Goal 3: Improve economic opportunities for fishermen and coastal communities.

Winter 2011-2012 Current Progress

- ◆ In 2011, 134 vessels owners and their crew participated in Washington, Oregon, and California.
- ◆ Over 11,000 samples were collected by fishermen and genotyped in 2011.
- ◆ California and Oregon state-based projects are entering data in near real-time to a secure online database through www.pacificfishtrax.org
- ◆ Compensation to fishermen, fleet managers, and port liaisons was \$352,042.50 in 2011.
- ◆ Additional projects have included: barcoding to enable traceability back to the fisherman, research on Chinook bycatch in the Pacific Whiting fishery, experimental fishery-independent surveys, research publications, habitat and oceanographic modeling and development of data recording devices.
- ◆ A fisheries information system workshop was held in Portland, OR (May 2011), and a symposium and workshop were held at American Fisheries Society 2011 in Seattle, WA.
- ◆ Educational Solutions created an informational video on Project CROOS that can be see here: [http://educationalolutions.org/documentary-intro-croos.html](http://educationalsolutions.org/documentary-intro-croos.html)
- ◆ In Washington, 755 at-sea samples were collected by fishermen. ~2,000 more samples were collected dockside for analysis in Westport and Neah Bay. These samples will be compared to at-sea samples.
- ◆ In Oregon, the major activities in 2011 were: at-sea sampling and genotyping; developing the Pacific Fish Trax website; developing web portals for fishermen and the general public; and datalogger development. Grid surveys and marketing projects were not conducted this year. ~2,500 samples were collected.
- ◆ In California, ~8,000 samples were collected by ~80 fishermen. There were significant volunteer efforts from both commercial and recreational fisheries.
- ◆ Progress within our organization has included improvement with sampling and GSI modeling techniques, continuing our Outreach and Education efforts, and the acceptance of a *Strategic Plan* and a *Data Sharing and Code of Conduct Agreement*.
- ◆ The 2012 season will include tri-state sampling, website advancements, datalogger investigations, and fishery-independent sampling.

Collaboration Background

- ◆ The West Coast Salmon Genetic Stock Identification Collaboration is an interdisciplinary partnership between the salmon troll industry and university, federal, state and tribal agency scientists and managers.
- ◆ The Oregon Salmon Commission, California Salmon Council and Washington Troller's Association lead the Collaboration. Partners include Oregon Sea Grant, Community Seafood Initiative, Columbia River Inter-Tribal Fish Commission, University of California—Santa Cruz, Oregon State University, Oregon and Washington Departments of Fish and Wildlife, California and Idaho Departments of Fish and Game, National Marine Fisheries Service Northwest and Southwest Fisheries Science Centers.
- ◆ This project has produced five years of fine-scale fish distribution data and fishing effort to support long term ecosystem-based fisheries science and management.



An electronic fishery information system designed by a collaboration of fishermen and scientists to help better manage fisheries

- > Fish Trax™ empowers the seafood industry to take greater control of their future
- > Fish Trax™ utilizes state-of-the-art tools to share information in real time and near-real time
- > Fish Trax™ is designed to share information with multiple users and for multiple uses
- > Fish Trax™ can improve fisheries management, science, marketing and economic performance - one piece of data can be used multiple times
- > For more information please visit www.fishtrax.org

Please visit our websites at www.pacificfishtrax.org and www.fishtrax.org. For more information or to stay informed of our project, please contact Kelsey Miller, Project Coordinator, at Kelsey.irene.miller@gmail.com.