

ORGANIZATION: Pollock Conservation Cooperative Research Center
TITLE: Workshop on Spatial Structure and Dynamics of Walleye
Pollock in the Bering Sea
REPORT: Final Report 2012 (Addendum to Annual Reports 2009, 2010)
PRINCIPAL INVESTIGATOR and COOPERATORS: Professor Terrance J. Quinn II, Principal Investigator
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Overview

The actual final report for this grant was the Annual Report 2009. That report described the purpose, format, and outcome of the Bering Sea pollock tagging workshop held in Seattle at the Alaska Fishery Science Center in July 2009. An addendum was written as Annual Report 2010 that described further progress in completing a Workshop Report for publication. This report is an addendum to that report describing follow-up activities in 2011-2012 that led to publication (see below). The overall goals of the workshop were:

- to synthesize relevant information about the spatial structure and dynamics of the walleye pollock (*Theragra chalcogramma*) population in the Bering Sea , and
- to examine spatial models of fish dynamics and their use in stock assessment and management internationally

The synthesis was needed to address issues related to ecosystem effects of one of the world's largest fisheries on a finer temporal and spatial scale than is currently available.

2011-2012 Progress

The PI (Quinn) and project collaborators (Ianelli, Cadrin, Wespestad, and Barbeaux) continued to polish the report and synthesize information presented at the workshop. The final draft of the report was completed in February 2011 and sent to the Alaska Fisheries Science Center to be published as a processed report. Page proofs were ready in August 2011, and following final editing the report was published in December 2011 as a pdf file. The PI had 250 copies made in January 2012. Copies were mailed to a broad audience of scientists and fisheries people. The report was distributed to the PCCCRC board, the North Pacific Fishery Management Council family (80 copies), workshop participants (31).

One key result of the synthesis was the development of a conceptual model (shown below), showing principal features of pollock movement and current patterns. This conceptual model should be viewed as a starting point, as other factors such as variability, temperature, and other biological, environmental, and anthropological factors are also important.

Publications/ Presentations

1. Publication:

Quinn, T. J. II, J. N. Ianelli, S. X. Cadrin, V. Wespestad, and S. J. Barbeaux. 2011. Report on a workshop on spatial structure and dynamics of walleye pollock in the Bering Sea. AFSC Processed Rep. 2011-04, 46 p. Alaska Fish. Sci. Cent., NOAA, Natl. Mar. Fish. Serv., 7600 Sand Point Way NE, Seattle WA 98115.

2. Web location: <http://www.afsc.noaa.gov/Publications/ProcRpt/PR2011-04.pdf>

3. Presentation: Quinn gave an invited presentation about the workshop at the Annual Meeting of the Alaska Chapter, American Fisheries Society, Kodiak, October 2012.

