

3-1. Migration and Distribution of Salmon (Oral-9)

Regional Stock Mixture of Juvenile Chum Salmon (*Oncorhynchus keta*) in the Western Bering Sea during Summer-Autumn 2004

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This paper reports on the ocean mixtures of regional stocks from 826 juvenile chum salmon (*Oncorhynchus keta*) specimens collected from 48 stations in the western Bering Sea during September 26 to October 23, 2004 by the Russian R/V *TINRO*. The regional origins are identified from genetic characteristics derived from fin ray specimens analyzed by the single nucleotide polymorphisms (SNP) technique, and classified against the genetic sequences of 76 known chum salmon populations from the North Pacific Rim countries. The analysis of genetic sequences from the phylogenetic trees and AMOVA tests indicate that the chum salmon specimens came from four regional groups: the Korea-Japan-Primorie region (42%), Russia (41%), Northwest Alaska (13%), and the other North American group (4%).