

Research Projects Catalog -- 2005

Site Id: 76

Title: **MANAGEMENT APPLICATIONS: IMPLEMENTING THE SEA PINK SALMON SURVIVAL MODEL - TAGGING TECHNOLOGY**

Location: Southwestern Prince William Sound

Purpose:

Abstract: This project will conduct tagging technology studies needed to develop management applications from the SEA pink salmon model. This project was conceived during a pink salmon predictive workshop recently held in Cordova March 16-18, 2004. Workshop participants recommended that preseason forecasting and numerical model validation could be approached by a direct census of juveniles as they are leaving Prince William Sound (PWS). Catching juveniles emigrating from PWS will also enable application of a second mark to partition survival between the early marine and oceanic life stages. At present, all juveniles of hatchery origin in PWS are otolith thermal marked. Combining estimates of stock composition obtained from otolith thermal marks and early marine survival will enable estimation of survivals of each hatchery release group and a very robust evaluation of pink salmon model simulations. The estimates will also be used to evaluate the accuracy of preseason forecasts of salmon run size obtained from a direct census of juveniles emigrating from PWS. This project will test the feasibility of using passive integrated transponder tags to partition early marine and oceanic survival of pink salmon. The project will estimate tag loss and tagging-induced mortality of juvenile pink salmon and tag detection rates at area salmon processors.

Start:

Finish:

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Geographic Coordinates:	<u>Point(s)</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Region(s)</u>	<u>North</u>	<u>East</u>	<u>South</u>	<u>West</u>