

SALMON TECHNICAL TEAM REPORT ON METHODOLOGY REVIEW PROCESS
AND PRELIMINARY TOPIC SELECTION FOR 2006

The Salmon Technical Team (STT) recommends Scientific and Statistical Committee (SSC) review the following subjects this fall.

- 1. Detailed Fishery Regulation Assessment Model (FRAM) Documentation and Chinook FRAM Base Period Data Development.** The five pieces of core FRAM documentation are: (1) the overview, (2) the detailed FRAM documentation, (3) a user's manual, (4) the Chinook, and the (5) coho base period data development documentation. The Model Evaluation Workgroup (MEW) completed work on the overview in 2004. The MEW is currently scheduled to complete the remaining FRAM documentations in time for the June meeting. The STT recommends the SSC provide follow up comments, on the materials presented in June, this fall.
- 2. Columbia River Ocean Abundance Forecast Methodology.** The MEW presented a suite of stock and age-specific models to forecast ocean abundances of Columbia River Chinook stocks at the 2005 fall meeting. The performance of the proposed models was simulated using two different data sets: a long time series (all available data) and a short time series (recent 10 years) and several models. The SSC has recommended the MEW select a "preferred" model and data set plus a review by the U.S. v. Oregon Technical Advisory Committee (TAC). Since the fall meeting, the performance of the model most likely to be adopted by the TAC was simulated using the same data set that TAC uses to prepare its preseason forecast of terminal runs. The TAC time series is typically the recent years but not necessarily the recent 10 years. Using the same data set in both the ocean abundance model and the terminal run model best emulates the method that the TAC will adopt. Members of the TAC have also prepared a "dry run" forecast for the 2006 season as an additional test of the methodology. The STT recommends the SSC review the model performance as measured by the simulated historical forecasts using the data set and model most likely to be adopted by the TAC and the "dry run" 2006 forecast this fall.
- 3. Coweeman Exploitation Rate.** Dr. Robert Kope indicated in his report, *Kope, R. 2005. Performance of Ocean Fisheries Management Relative to National Marine Fisheries Service Endangered Species Act Consultation Standards. NW Fisheries Science Center. Seattle, WA*, that the Coweeman exploitation rate has been higher than forecast in the annual Preseason III Reports. However, his analysis is based on limited coded-wire tag recoveries from the surrogate Cowlitz tule hatchery stock where as the estimates in the preseason analyses are projected from the Chinook FRAM model. The STT recommends the SSC review the methods used to prepare the Coweeman impact estimates in the Preseason Report III and if the methods correct the bias identified by Dr. Kope this fall.

4. **Klamath Chinook contact rate and catch projection.** During the March meeting, the area and month specific data used to build the Klamath contact rate per effort model were adjusted to address the under prediction of age-4 commercial ocean harvest for the past 3 years. Instead of using all available data to build the model, the new data set is limited to the 1991-2005 data for the KO, KC, FB, SF, and MO areas and to the 2005 data for NO and CO areas. This adjustment in the data set was described in Appendix A of the Preseason Report II. The STT recommends the SSC review the adjusted Klamath contact rate and effort model this fall.

PFMC
04/05/06