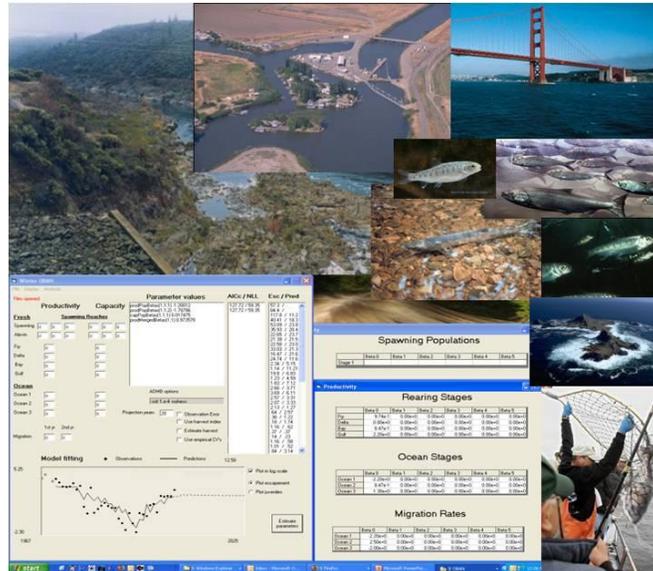


# Delta Science Program Brown Bag Series Presents

## Building a Multi-Stock Population Dynamics Framework for Central Valley Chinook

Noble Hendrix, R2 Resources Consultants and  
Robert Lessard, University of Washington

**Wednesday, September 28, 2011**  
**Cal EPA building 1<sup>st</sup> Floor: Training Room 1, East and West**  
**1001 "I" Street, Sacramento CA 95814**



Researchers from the University of Washington, National Marine Fisheries Service and R2 Resource Consultants, Inc. have been developing life cycle models of Central Valley Chinook. The objectives of these models are to 1) incorporate mortality in all phases of the life-cycle, 2) estimate size and composition of populations by fitting model predictions to observed indices of abundance, 3) evaluate predictors that may explain changes in population and, 4) incorporate uncertainty in the estimation procedure by using a Bayesian framework.

These researchers have developed a flexible modeling framework called Oncorhynchus Bayesian Analysis (OBAN) and have applied it to winter-run and Butte Creek spring-run Chinook in the Central Valley. The research group recently received funding from the 2010 Delta Stewardship Council to continue work on Central Valley Chinook. In this Brown Bag seminar, they will review their results to date and describe their approach for meeting their research objectives. They encourage the public to review their proposed methods and provide comments on the approach.