**FORECASTING DELTA TURBIDITY TRANSPORT & ADULT SMELT BEHAVIOR**

**KEY PROGRAM ELEMENTS & STATUS**

**November 2010**

|  |  |  |
| --- | --- | --- |
| Program Element | Consultant(s) or Technical Lead | Comments/Status |
| Simulating & Forecasting Delta Turbidity Transport w/ RMA 2-D Bay-Delta Model | RMA | \* Model calibration complete  \* Model validation and documentation underway  \* RMA under contract to conduct weekly forecasts Dec 2010 – mid March 2011 (tentative) ; coordination with DWR OCO and DFM |
| Simulating & Forecasting Adult Smelt Behavior w/ RMA 2-D Bay-Delta Model | RMA | \* Same as above |
| Simulating & Forecasting Upstream TSS & Turbidity Loads w/ WARMF Model | Systech | \* Model applications already available for Sacramento and San Joaquin River watersheds  \* Model application under development for Delta east side tributary watersheds – final deliverable expected March 2011  \* Systech under contract to conduct weekly forecasts Dec 2010 – mid March 2011; coordination with DWR DFM |
| RMA Bay-Delta Model Site License & MWD Staff Training | RMA; Chuching Wang | \* Chuching receiving training from RMA staff  \* Six-month site license agreement (tentative)  \* Six-month task order to continue MWD staff training |
| Simulating Delta Turbidity Transport w/ DSM2 | DWR BDO | \* Model calibration underway |
| Data Dissemination & Animation | 34 North; DEEPBLU Studios | \* Tool being developed to generate spatial contour maps of time series data accessible on BayDeltaLive.com  \* Tool being developed to manage access to real time Delta data |
| Predicting Adult Smelt Salvage w/ Statistical Techniques | Rick Deriso  Bryan Manly | \* Deriso developed a model that predicts adult salvage as a function of OMR flow, CCF turbidity and FMWT  \* Manly developed several models that predict adult salvage as a function of OMR flow, FMWT, and several other flow variables  \* Scoping underway to task Manly with developing a forecasting application |
| Coordination with DSWG | Jon Burau | \* John Burau is new member of DSWG |
| Coordination with DWR |  | \* meetings held last year with OCO and DES  \* plan to meet with Jerry Johns |