

-- Draft CMARP Proposal --

Storage and Conveyance South Delta Flood Protection Plan / Evaluation

An objective of the CALFED Bay-Delta Program involves improved system integrity and reliability. There remains a need for a comprehensive flood protection plan in the south Delta region that can be integrated with the south Delta improvements under consideration in the development of the Program's Preferred Alternative.

The USACE is currently sponsoring a comprehensive flood study of the main stem Sacramento and San Joaquin Rivers. It is recognized that there are overlapping boundaries between what the Corps study is undertaking and the area of interest to CALFED, particularly in the south Delta. It is imperative that any effort to establish a flood control solution in the Delta is done so in coordination with the Corps Comprehensive Study.

An accurate depiction of the existing conditions in the region is necessary before impact assessment of specific flood control actions can be analyzed. Much of the south Delta area lacks current land survey and channel bathymetry data. Historic flow and river stage data must also be assembled in order to calibrate the hydrodynamic models that may be used for evaluating flood control scenarios. In addition, flood hydrographs and their associated flood frequencies must be obtained and converted into a format readily useable by hydrodynamic models. It will be necessary to obtain the aforementioned information before flood analysis of the region can proceed.

DELIVERABLES:

- 1. Land surveys and channel geometry measurements necessary to update Delta hydrodynamic model geometry.
(NOTE: coordinate with USACE to avoid duplicating efforts).**
- 2. Historic flow and stage data at various key locations in the south and central Delta regions.**
- 3. Flood hydrographs and correlated frequency analyses.**