

Delta Cross Channel Studies

Status Report

- **Interdisciplinary studies in an experimental framework have been conducted in the last several years.**
- **Focus of studies to date has been local (near DCC facility) hydrodynamics and local fish behavior and movement patterns.**

Delta Cross Channel Studies

Status Report

- **Synthesis of all the interdisciplinary information produced from the DCC experiments has not yet occurred.**
- **Many reports on the experiment and studies are not completed.**
- **Timeline for completion is at least a year or two in the future.**

Delta Cross Channel Studies

Status Report

- **No conclusions or recommendations for long-term DCC re-operation has been made yet.**
- **The multi-purpose aspect of DCC operation (balancing the beneficial uses of fish, water quality and water supply) have not been addressed yet.**

Additional Planned DCC studies

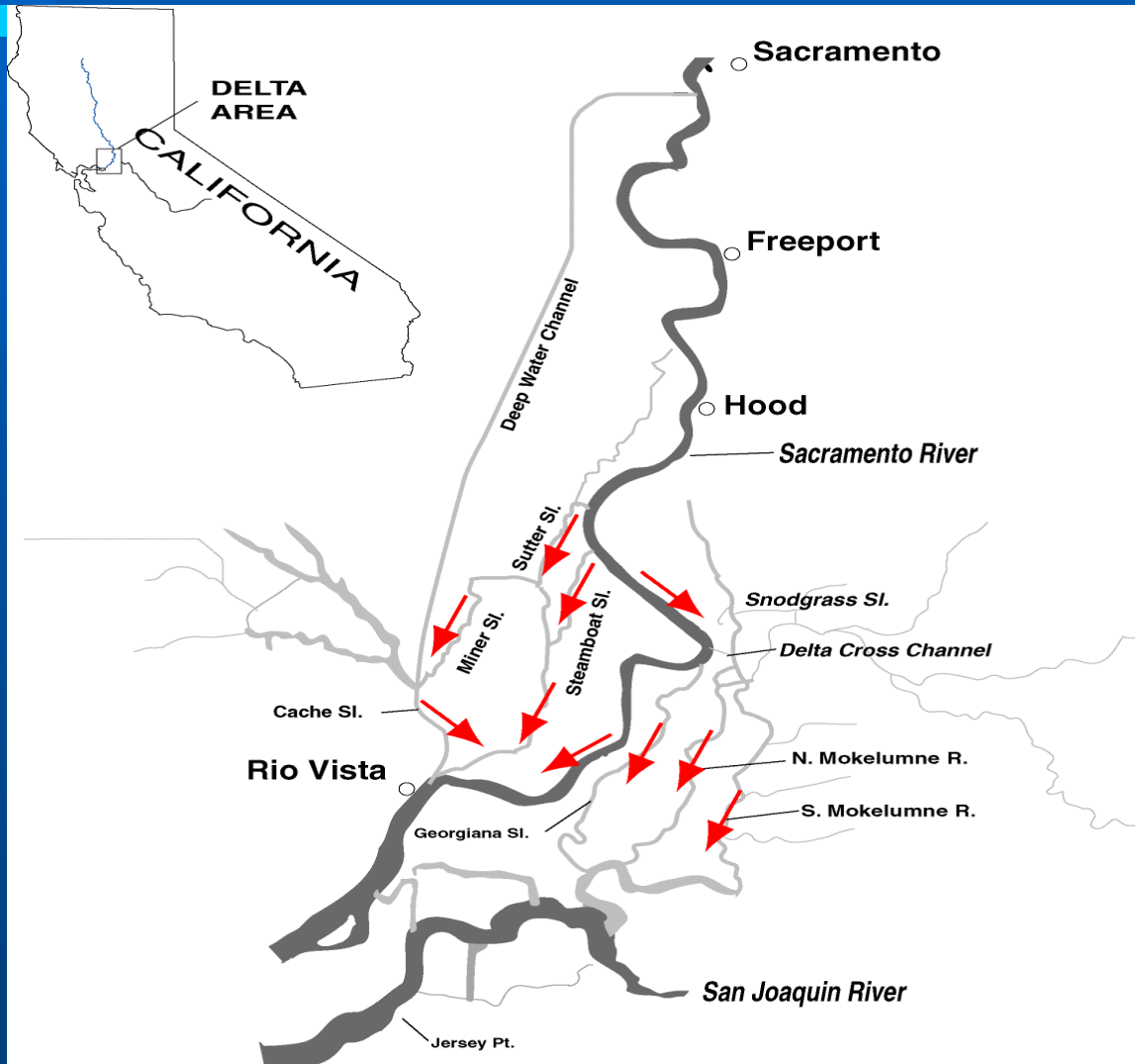
- **Focus will be on larger regional effects with DCC gates opened or closed.**
 - **Fish migration pathways**
 - **Salinity changes in Interior Delta.**
 - **Will be coordinated with other experiments/studies in the Central Delta.**

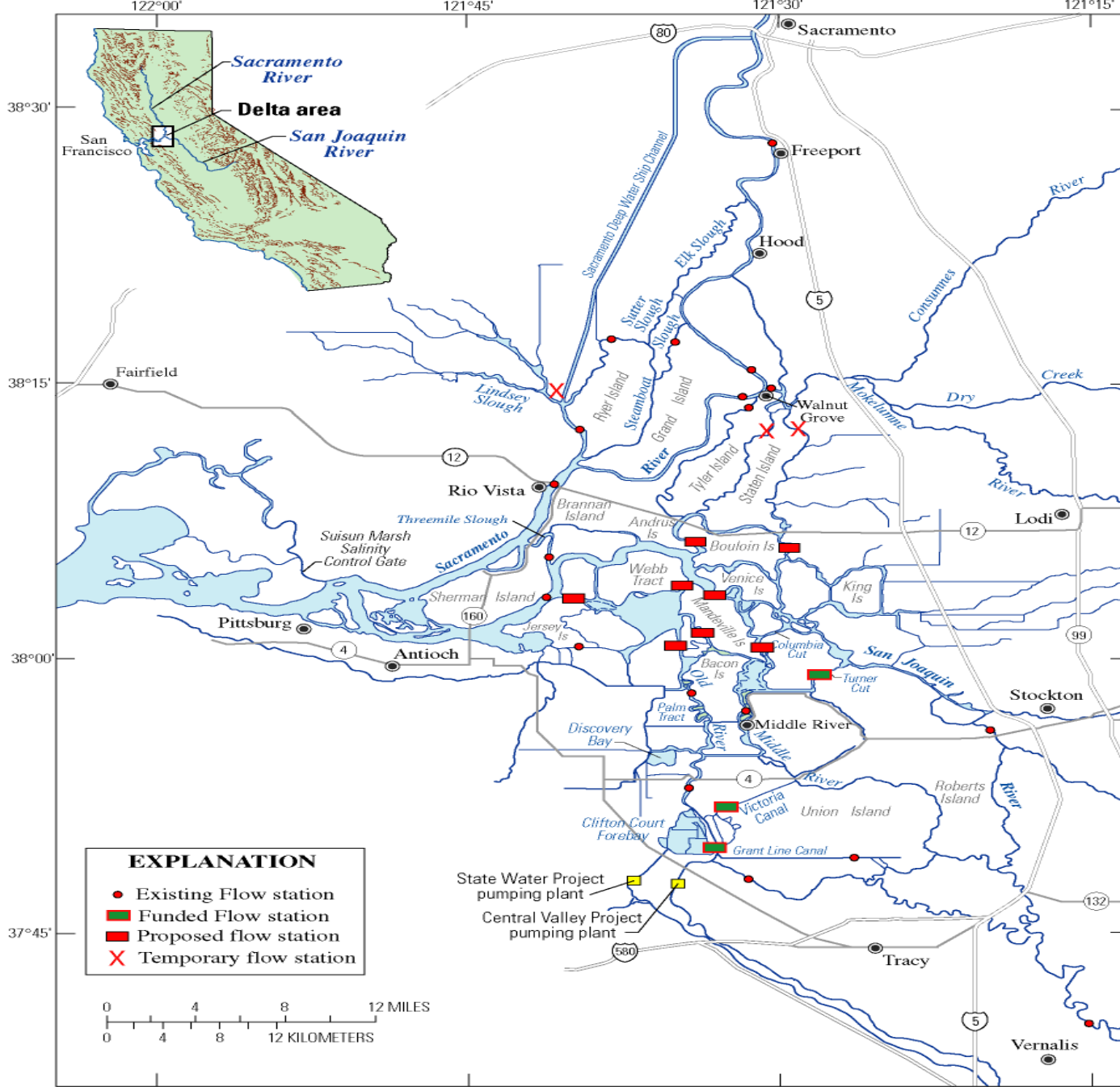
Additional Planned DCC studies

- **Timeline**

- **Goal is Fall of 2005**
- **Equipment and technology testing for proposed experimental framework has been occurring.**
- **Acoustic fish tag technology under development – could revolutionize understanding of salmon migration behavior.**
- **Preliminary funding estimates range from \$500K to \$1 million.**

North Delta flows affected by DCC operations





Existing and proposed flow station locations.

All stations in central and south delta should have temperature/conductivity sensors.

File: nd.flow.plan.ai

DCC Automation Issues

- **No formal conclusions or recommendations for long-term DCC re-operation has been made.**
- **Other alternatives may be pursued by CALFED if DCC re-operation is concluded to be infeasible or unpractical.**

DCC Automation Issues

- **If a more frequent DCC opening – closing operation strategy is ultimately recommended.**
- **Reclamation will need to reassess DCC infrastructure.**
 - **Automation/Remote control equipment needs.**
 - **Review for any Electrical/Mechanical upgrades necessary.**
 - **Design Electrical/Mechanical, Communication and Public Safety needs.**
 - **Public Outreach for Recreational and Public Safety needs.**

DCC Automation Issues

- **Preliminary Cost estimate – \$200K to \$300K if no significant electrical or mechanical upgrades are deemed necessary. Costs could increase substantially if upgrades are necessary.**
- **1 year timeline if no significant upgrades are needed.**