

**Coastal Louisiana Ecosystem Assessment and Restoration (CLEAR)
Research Facility: Ecosystem Forecasting System Using Barataria Basin as
Test Domain**

Task 3.5: Box Model/ Water Quality Development

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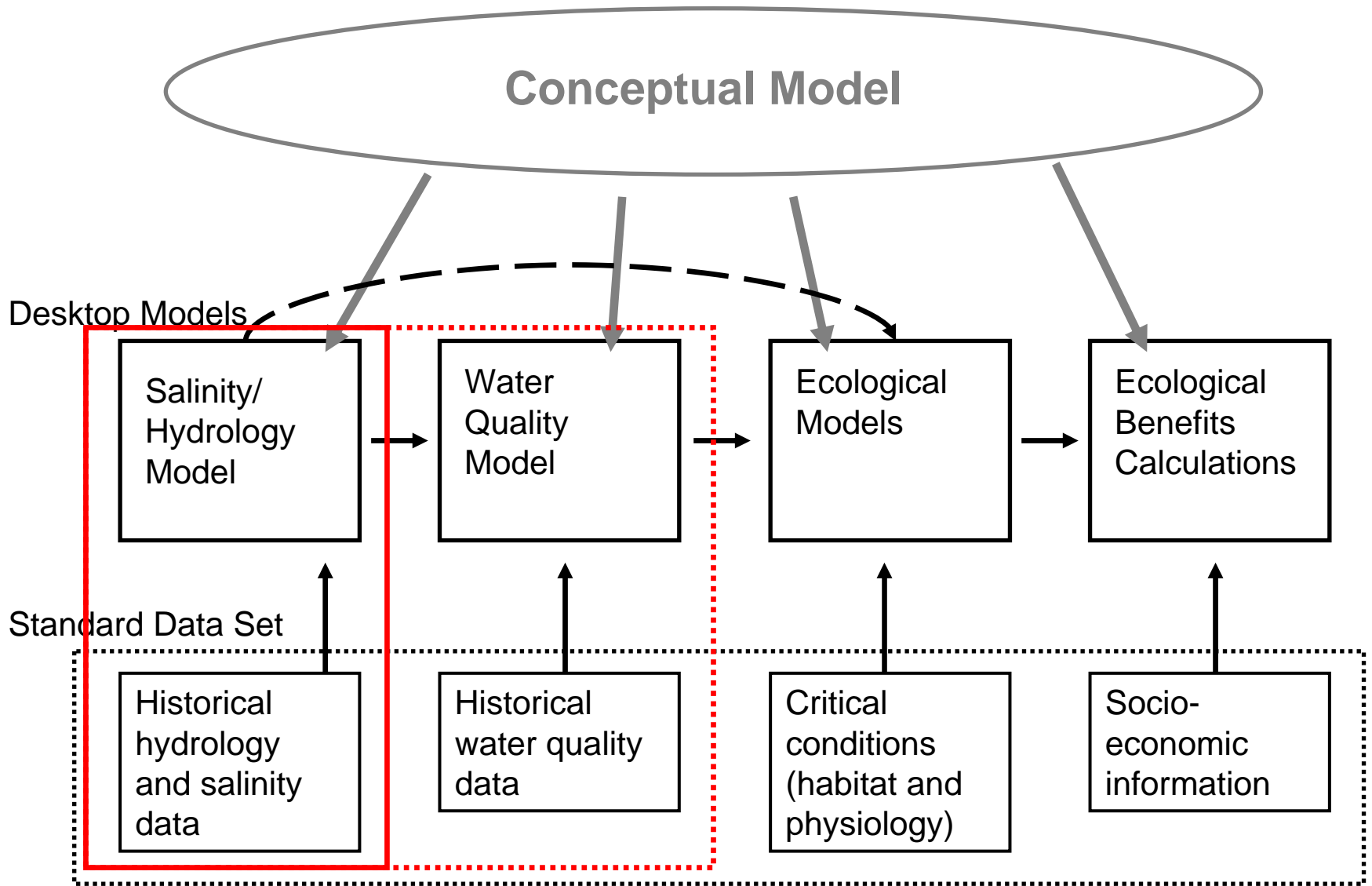
1 - Coastal Ecology Institute, LSU

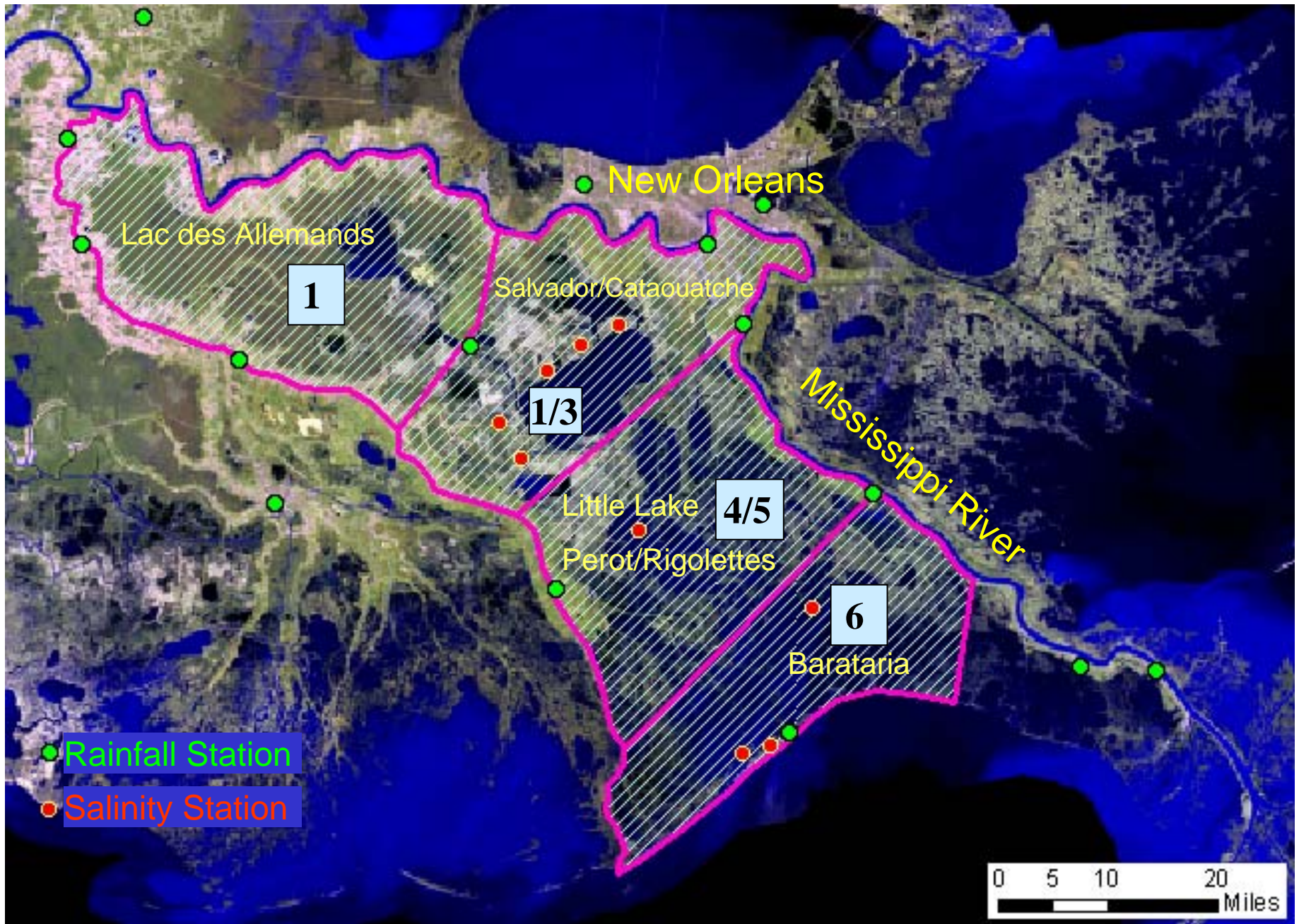
2 - Department of Oceanography and Coastal Sciences, LSU

3 – Consultant

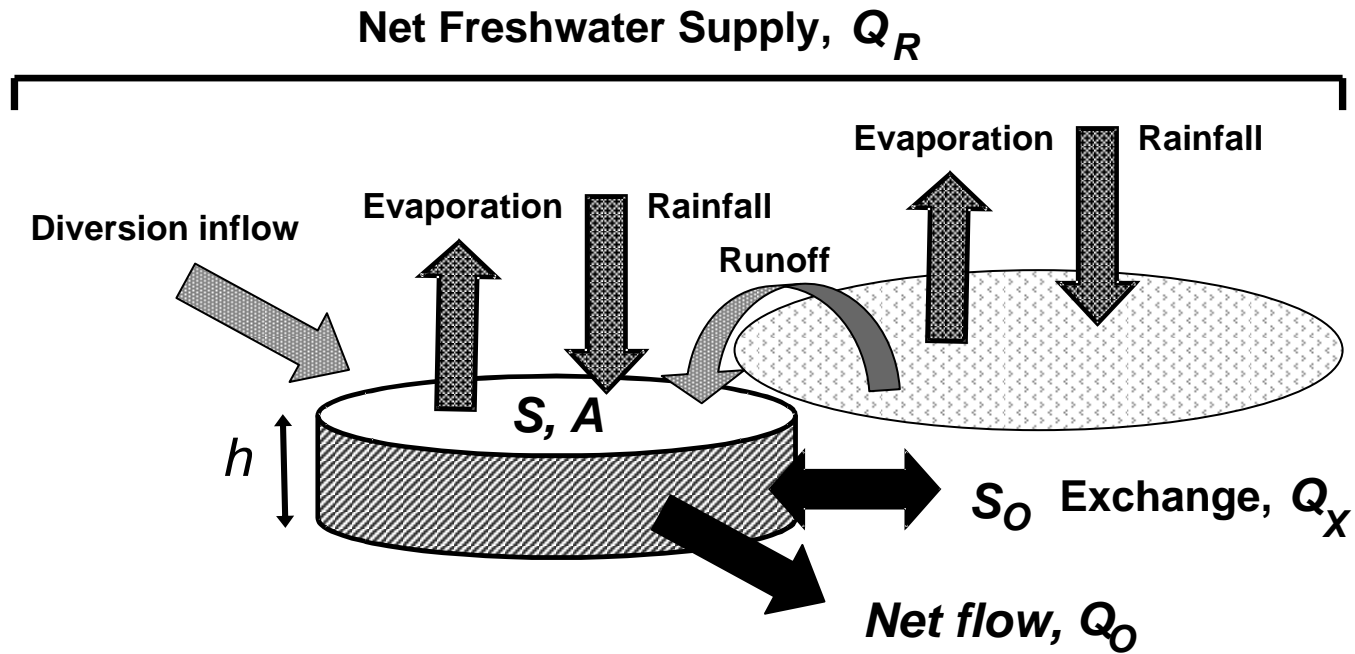
4 - Wetland Biogeochemistry Institute, LSU

This project

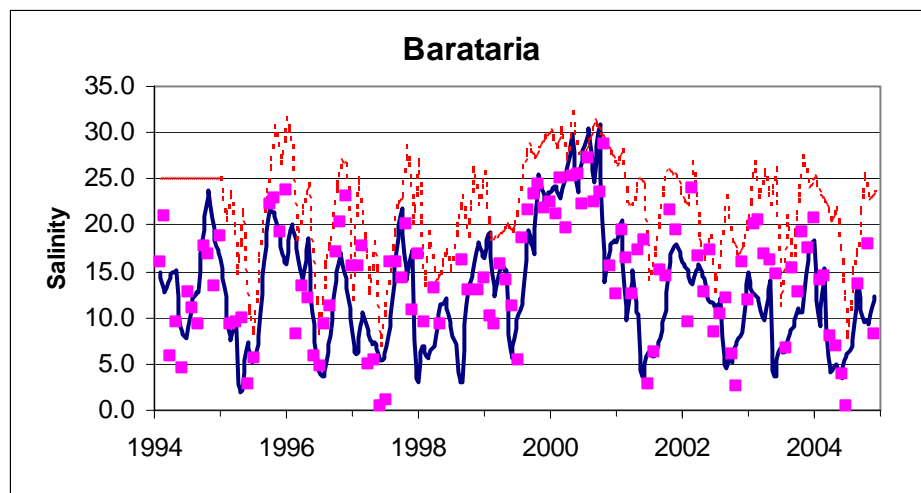
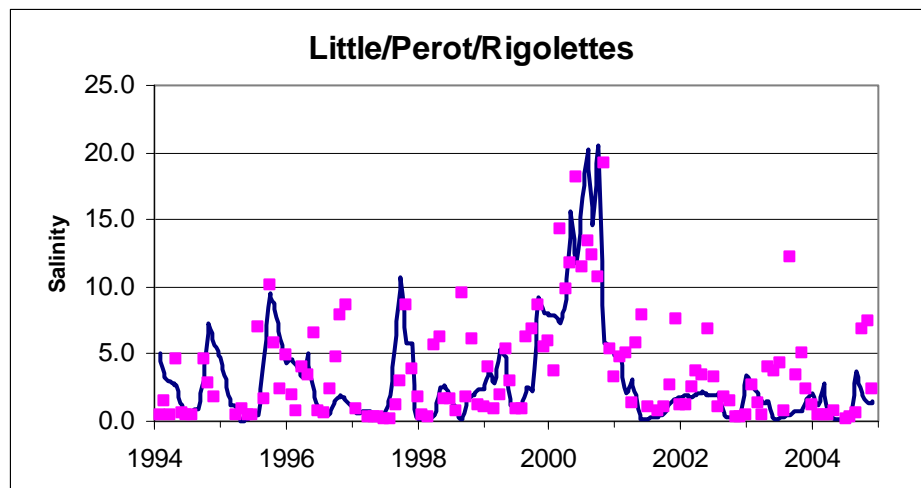
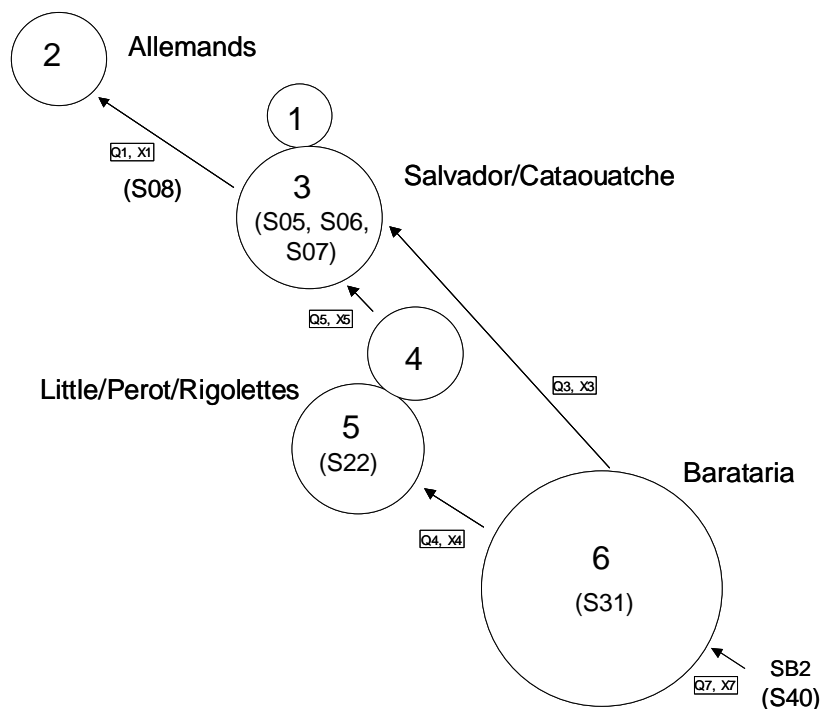




Water budget – single sub-region



Calibration / Verification



Application: Exploring Restoration Options

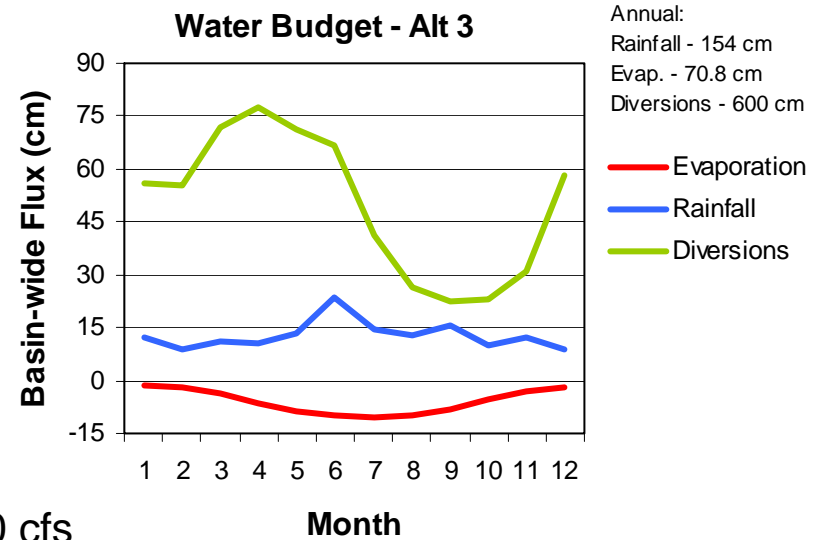
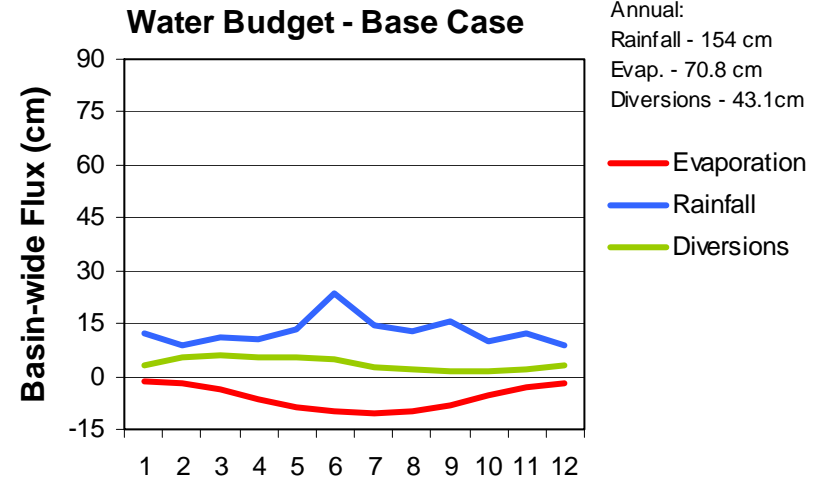
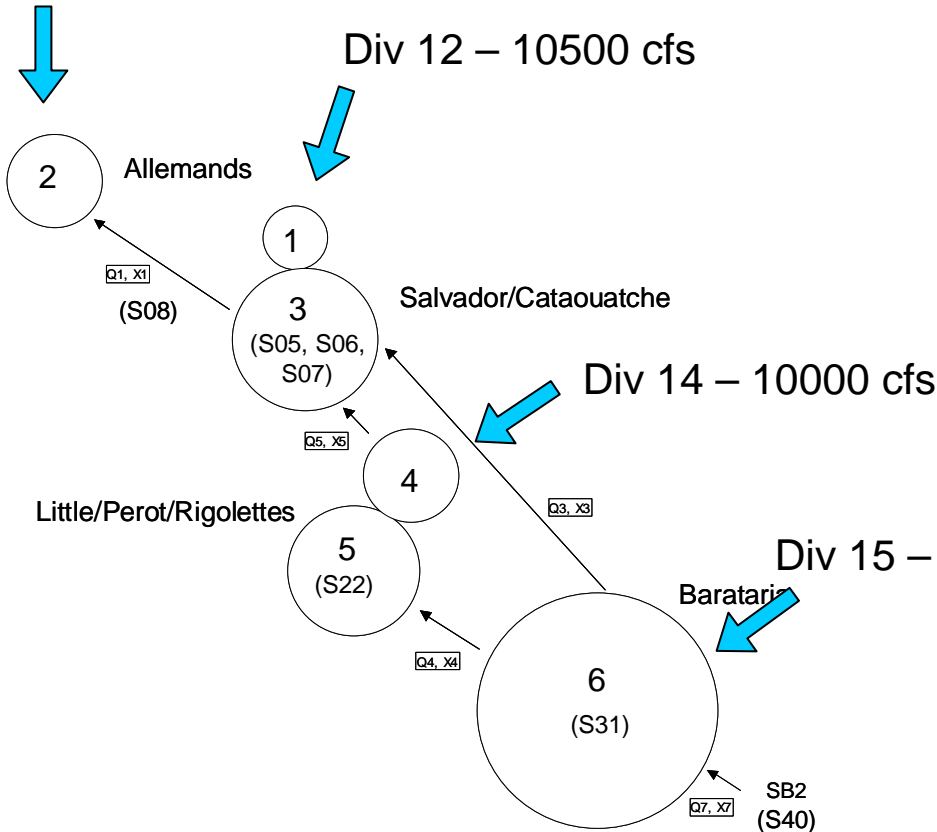
Master Plan Diversions

Div 12 – 5000 cfs
Div 11 – 5000 cfs

Div 12 – 10500 cfs

Div 14 – 10000 cfs

Div 15 – 15000 cfs



Exploring Options

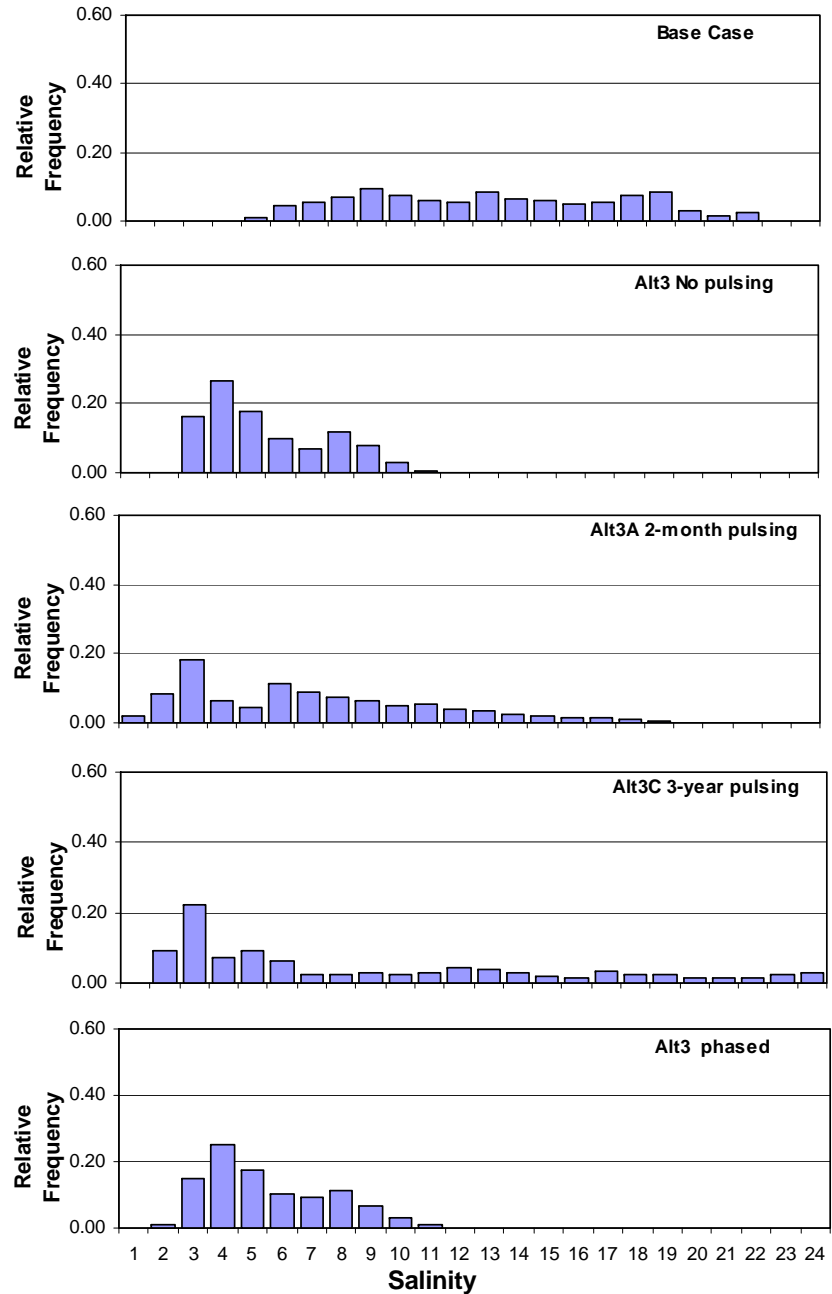
Current conditions

Alt 3 diversions

2-month pulsing

3-year pulsing

Upper-lower phased



Next steps

