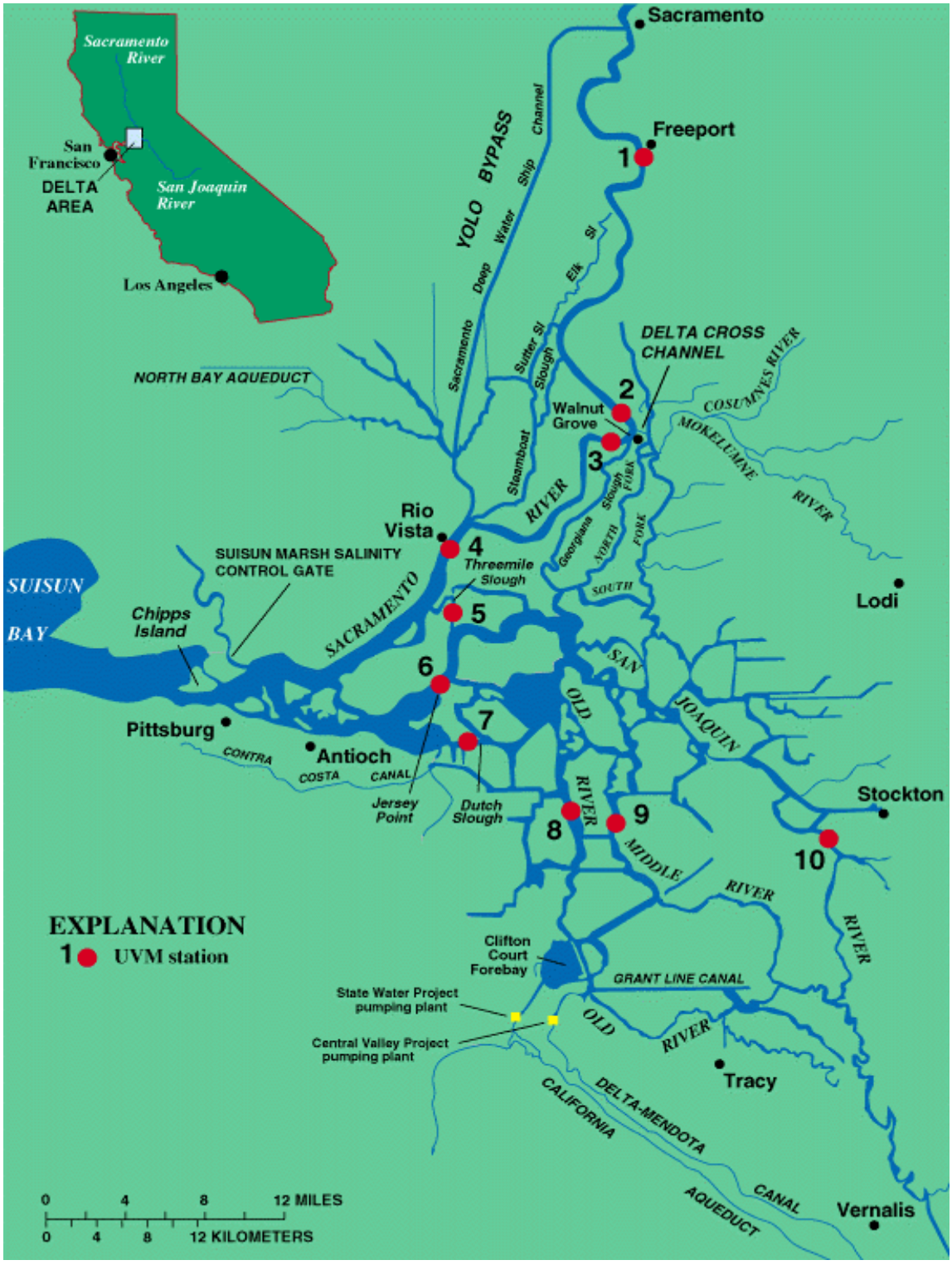

(Source: Oltmann and Simpson 1997.)

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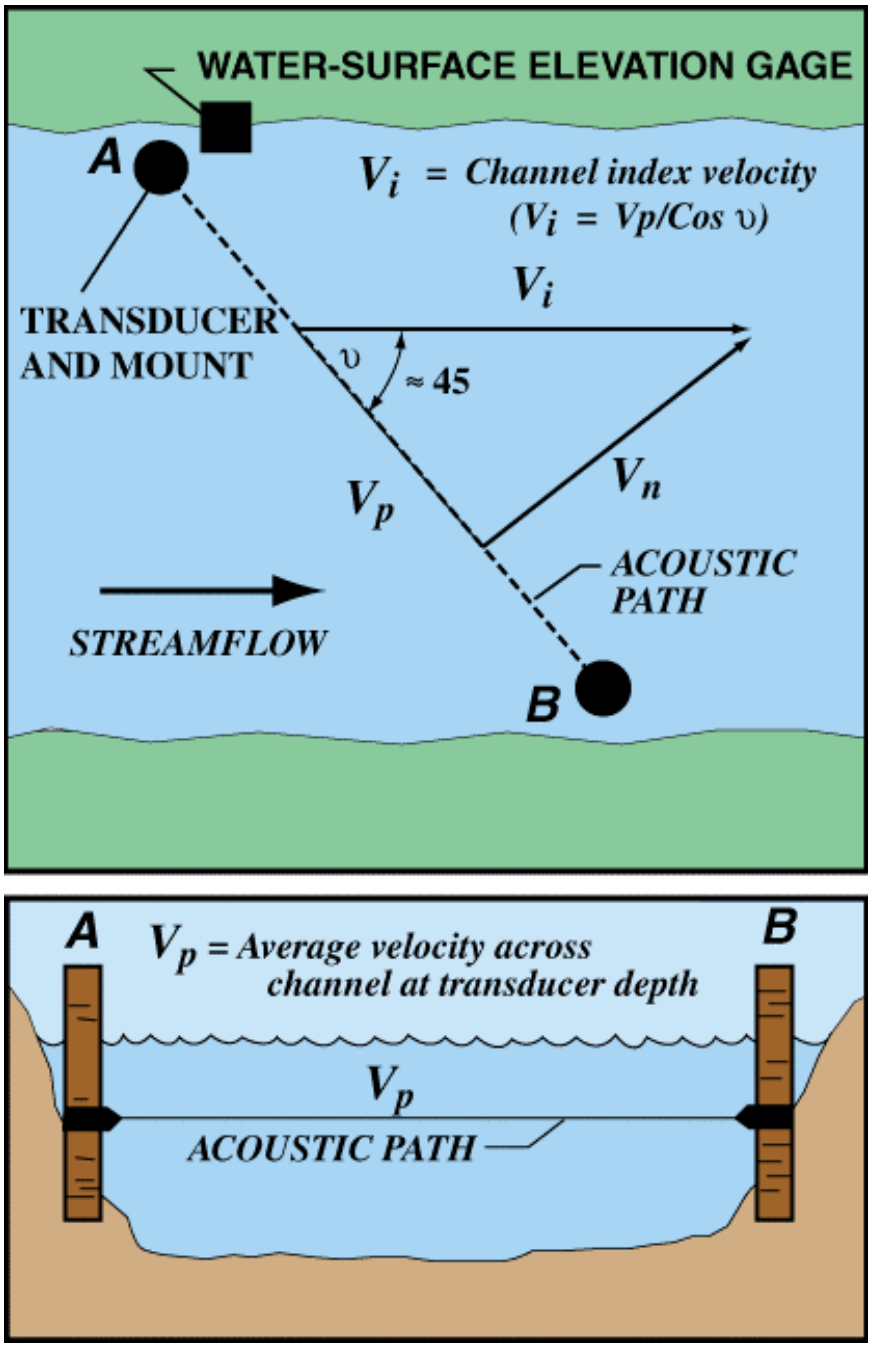
Figure D-1

Map of Delta Showing Locations of U.S. Geological Survey Tidal Ultrasonic Velocity Meters



(Source: Oltmann and Simpson 1997.)

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Figure D-2

Diagram Showing the Operation of a Tidal Ultrasonic Velocity Meter Station

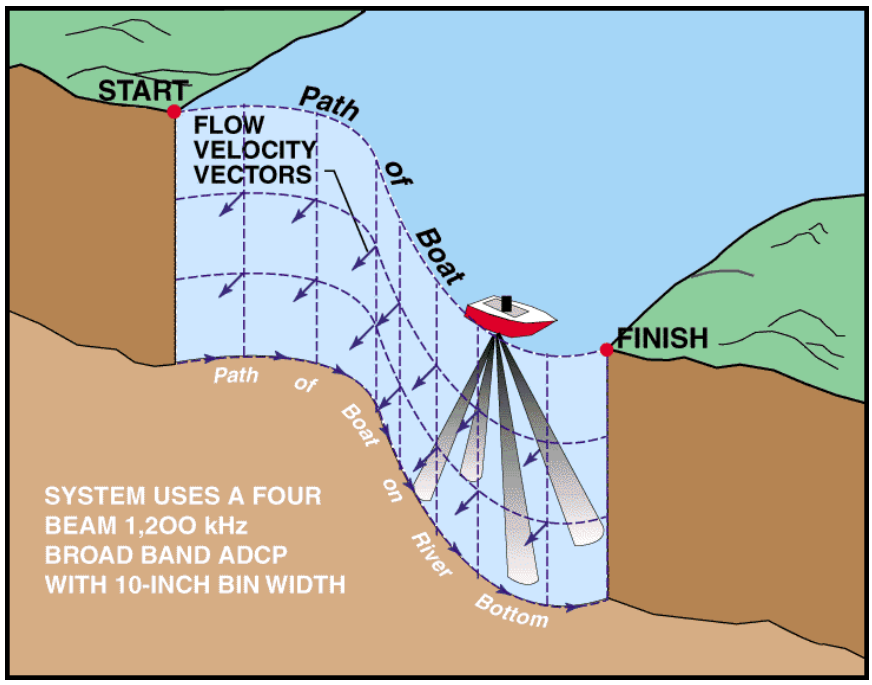

Figure D-3. Diagram of Acoustic-Doppler Current Profiling System Measurements of Tidal Flow for Providing a "Rating Curve" for Ultrasonic Velocity Meter Tidal Flow Station
(Source: Oltmann and Simpson 1997.)

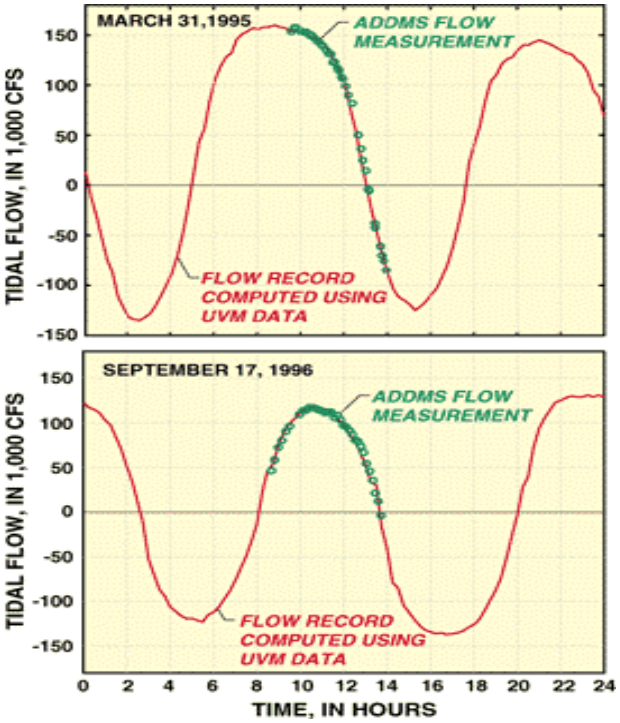

Figure D-4. Example of Comparison between the Acoustic-Doppler Current Profiling System Discrete Flows and Continuous Ultrasonic Velocity Meter Tidal Flows for San Joaquin River at Jersey Point
(Source: Oltmann and Simpson 1997.)

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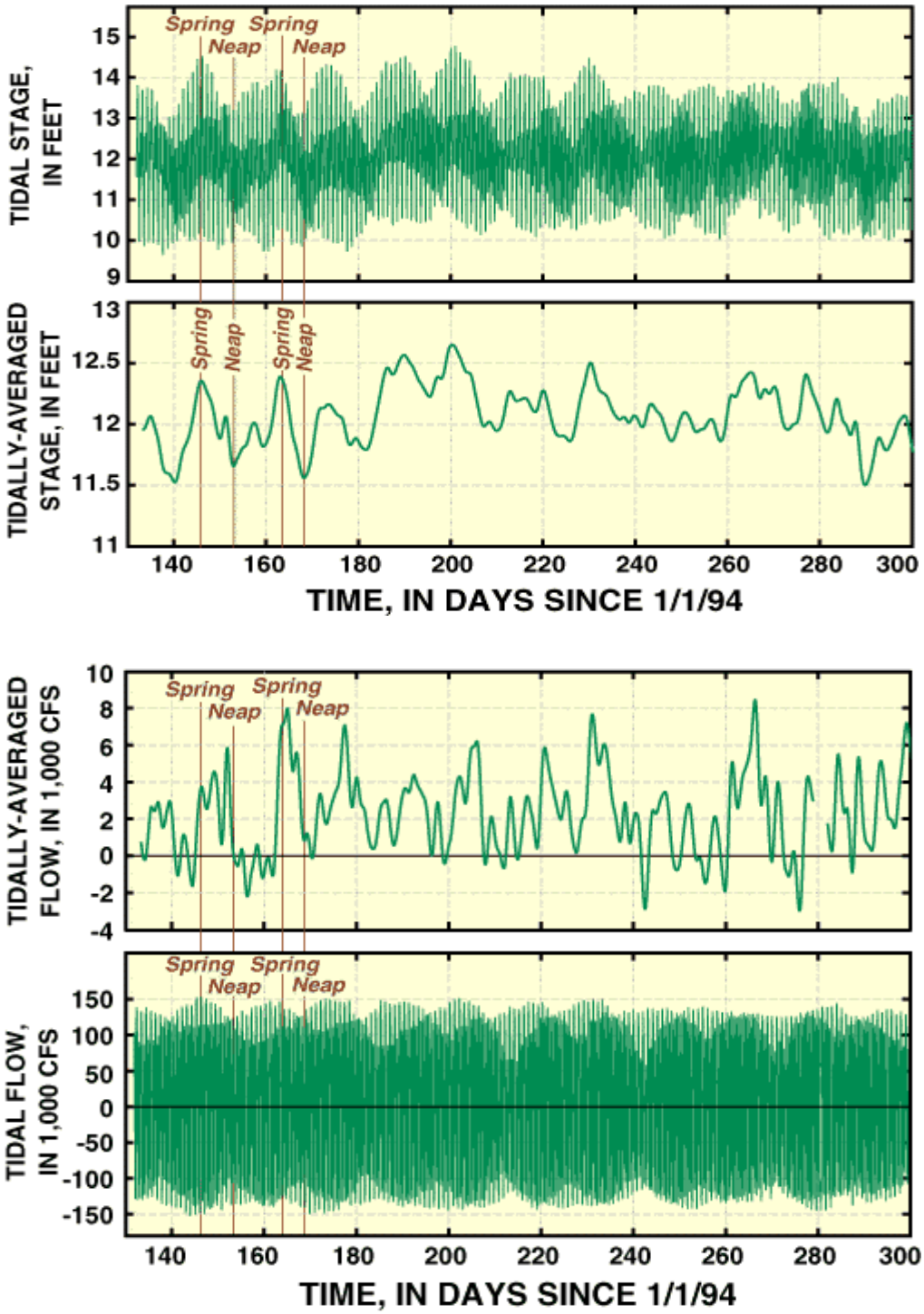

Note: Sea level is at approximately 12 feet on the gage datum.
(Source: Oltmann and Simpson 1997.)

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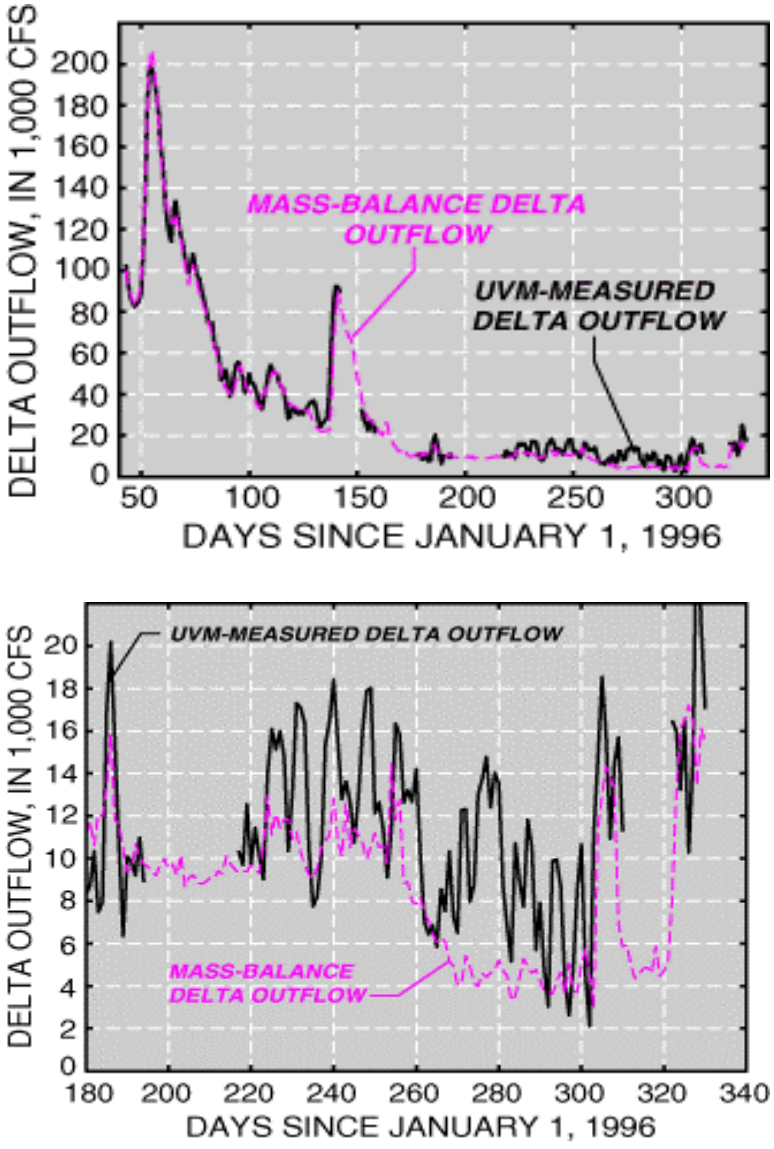
Figure D-5

Tidal Stage Elevation and Tidal Flow at Jersey Point Ultrasonic Velocity Meter Station

Comparison of Delta outflow measured with the four U.S. Geological Survey Ultrasonic Velocity Meter stations and calculated from the DAYFLOW mass-balance using estimates of Delta channel depletions.



(Source: Oltmann 1998.)

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Figure D-6

Comparison of Delta Outflow

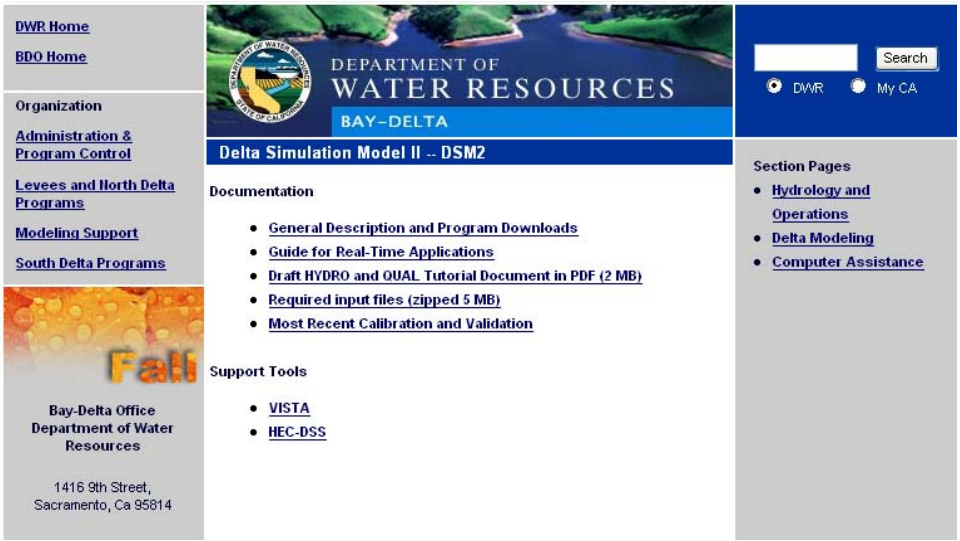

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Figure D-7

Main DSM2 Modeling Web Sites

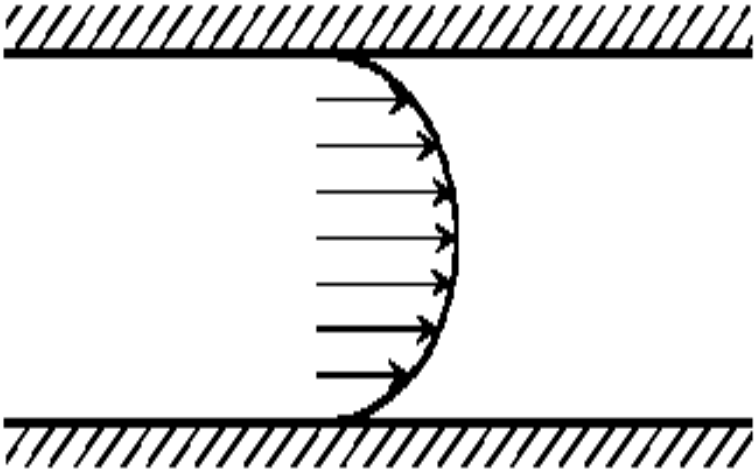

Figure D-8a. Assumed Lateral Velocity Profile: Fourth-Order Polynomial Function

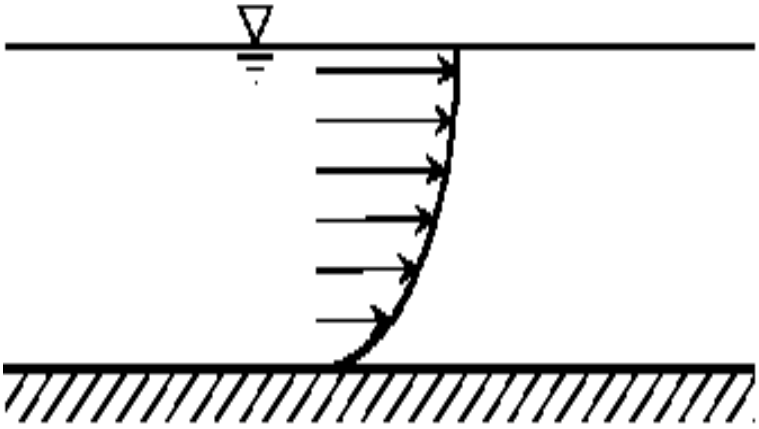

Figure D-8b. Assumed Vertical Velocity Profile: Von Karman Log Function

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Figures D-8a and D-8b

Assumed Velocity Profiles

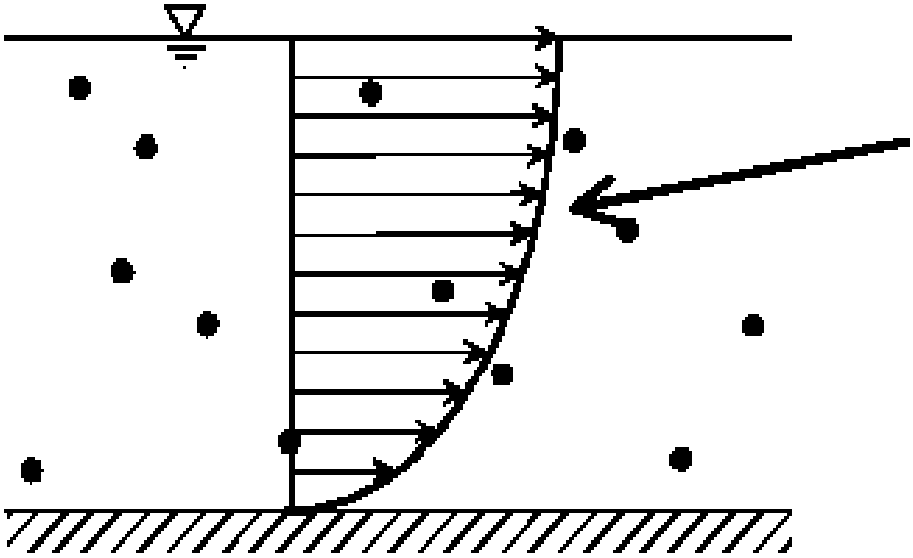

Figure D-9a. Normal Particles with Unrestricted Distribution

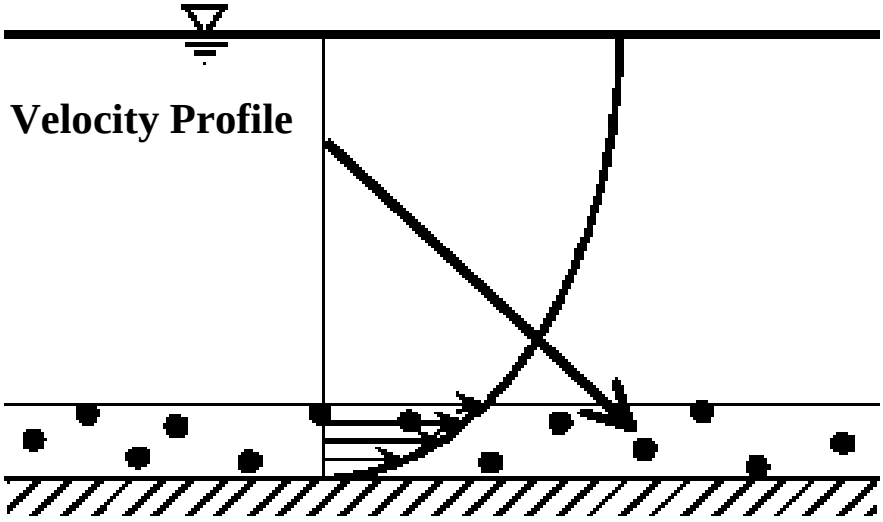

Figure D-9b. Particles Restricted to Lower (Slower) Portion of Channel

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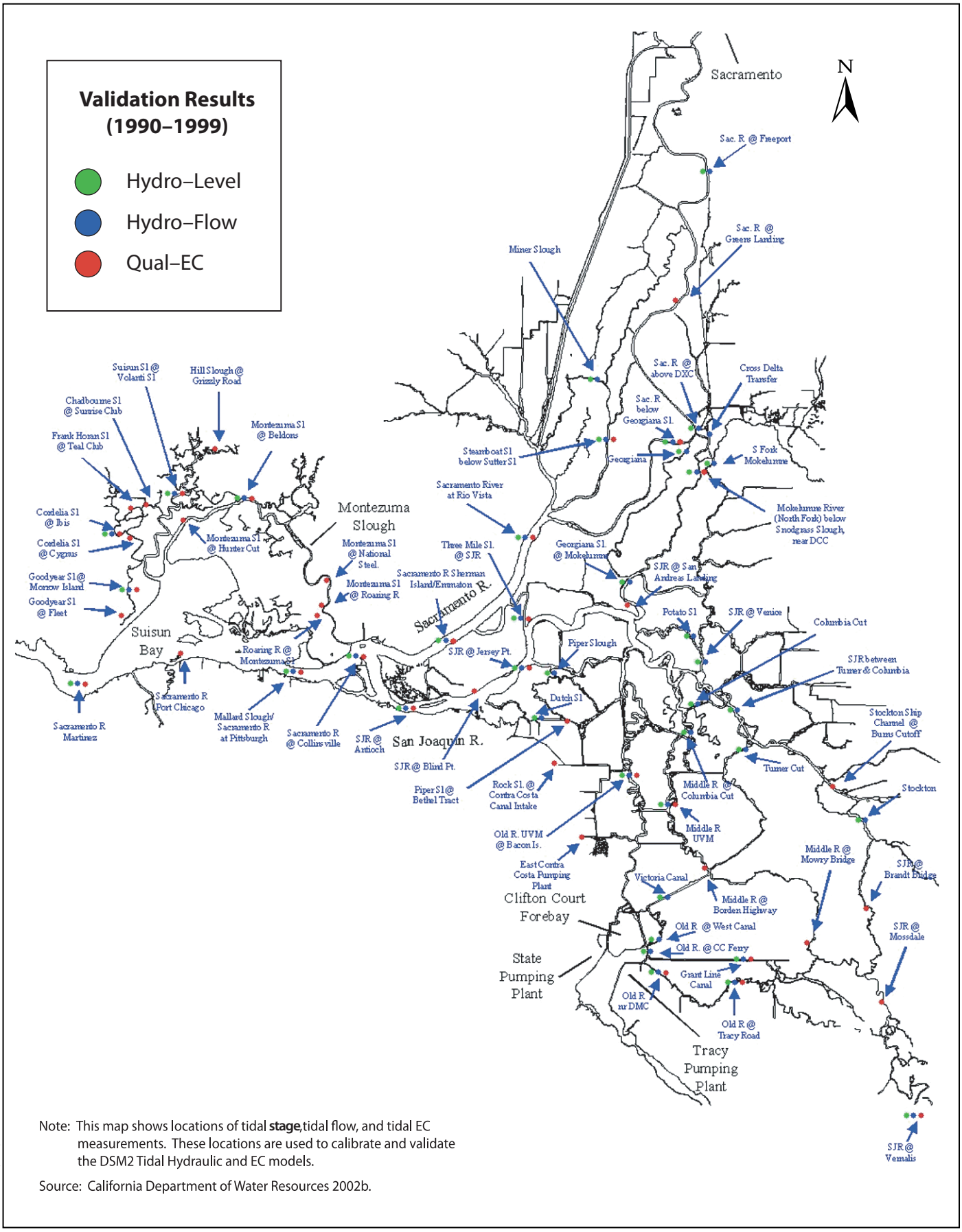
Figure D-9

Particle Vertical Distribution Behaviors in Particle-Tracking Model



Note: This map shows locations of tidal **stage**, tidal flow, and tidal EC measurements. These locations are used to calibrate and validate the DSM2 Tidal Hydraulic and EC models.

Source: California Department of Water Resources 2002b.

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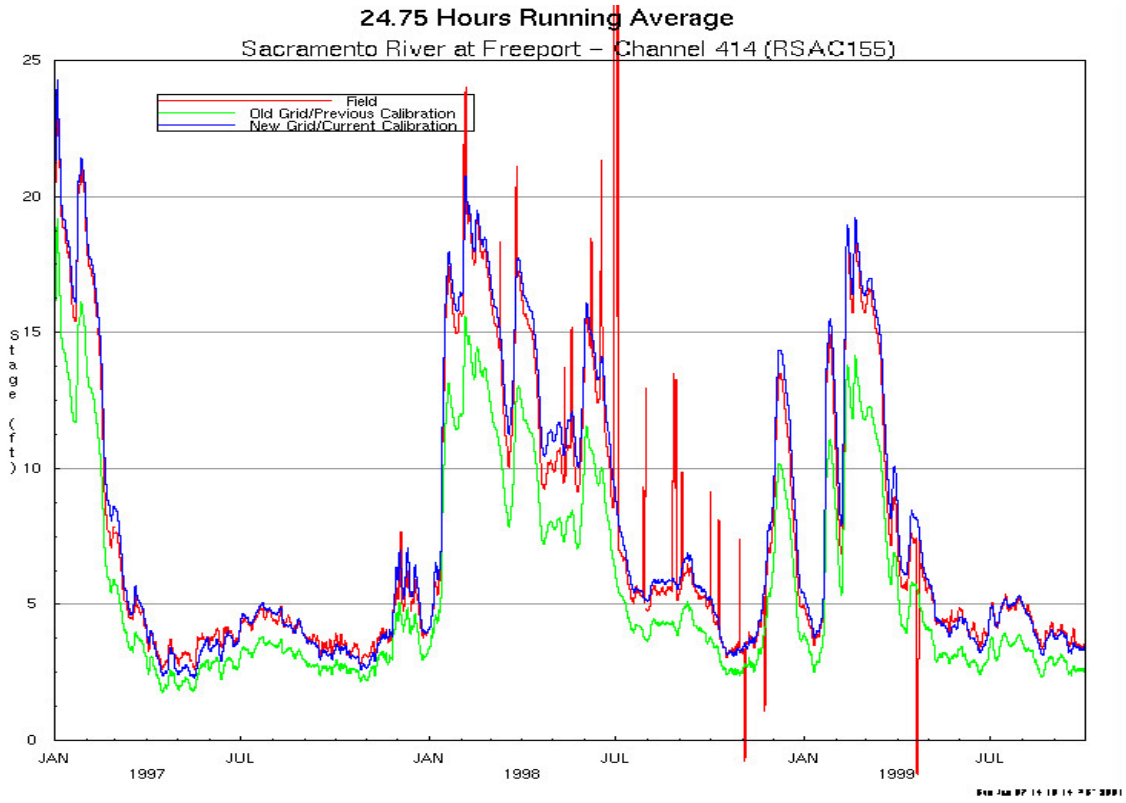
Figure D-10
Location of Tidal Stage, Tidal Flow, and Electrical Conductivity Data Used for Validation of DSM2



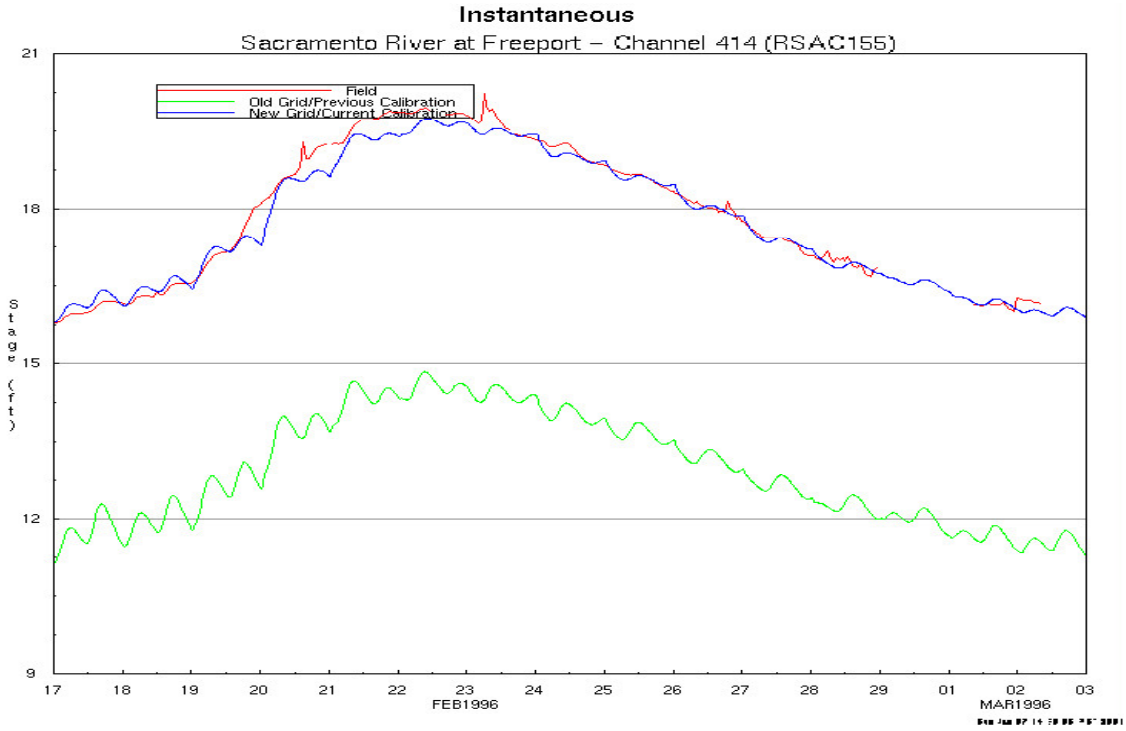


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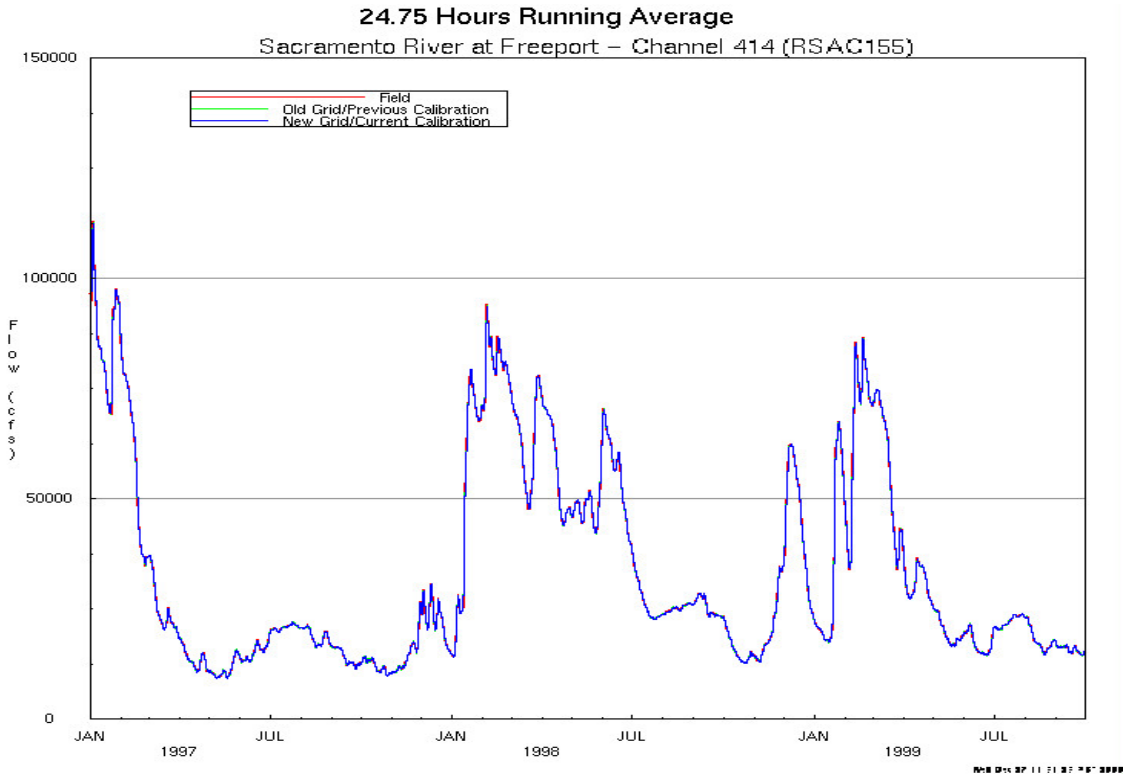
Figure D-11

DSM2-Simulated and Measured Tidal Stage in the Sacramento River at Freeport for January 1997–September 1999 and February 17–March 2, 1996



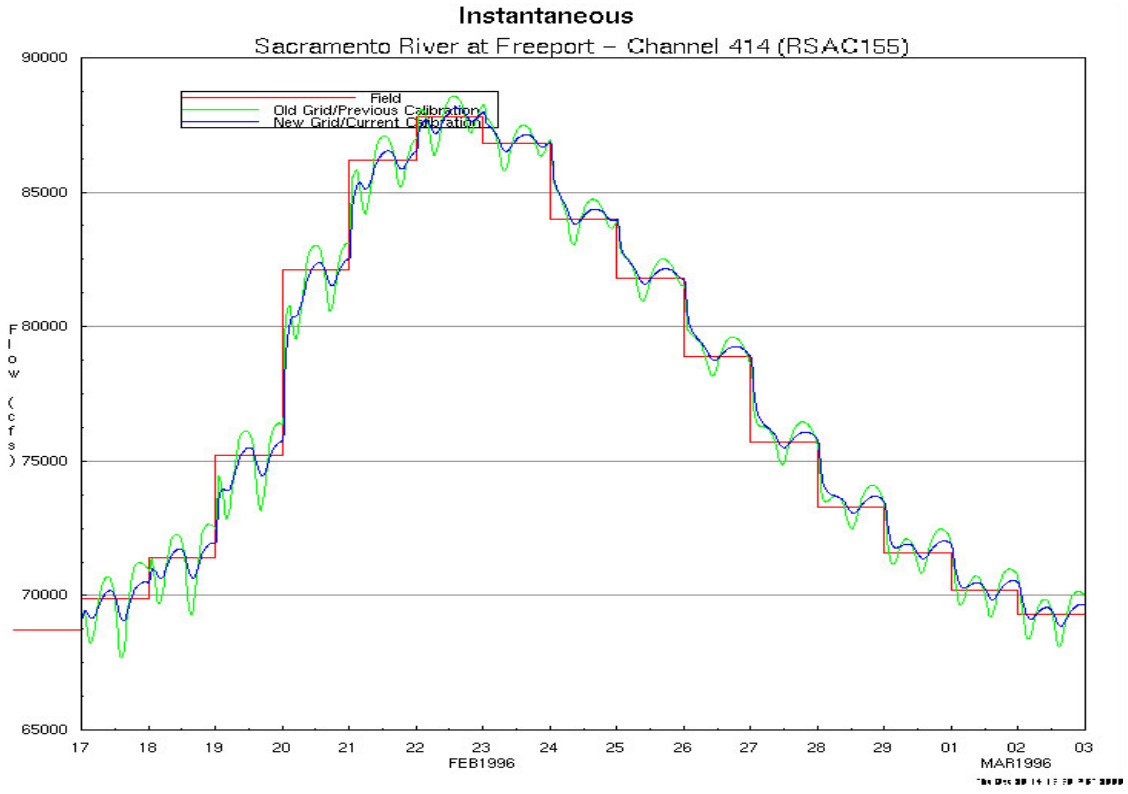


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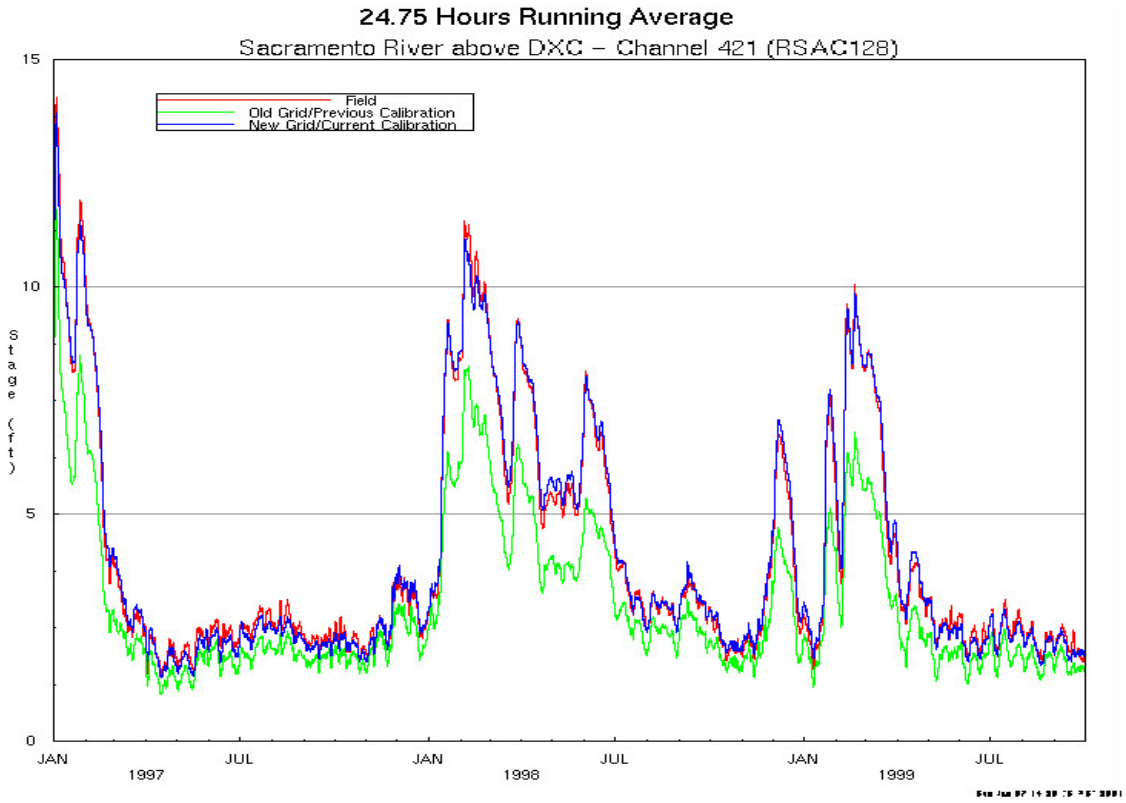
Figure D-12

DSM2-Simulated and Measured Tidal Flow in the Sacramento River at Freeport for January 1997–September 1999 and February 17–March 2, 1996



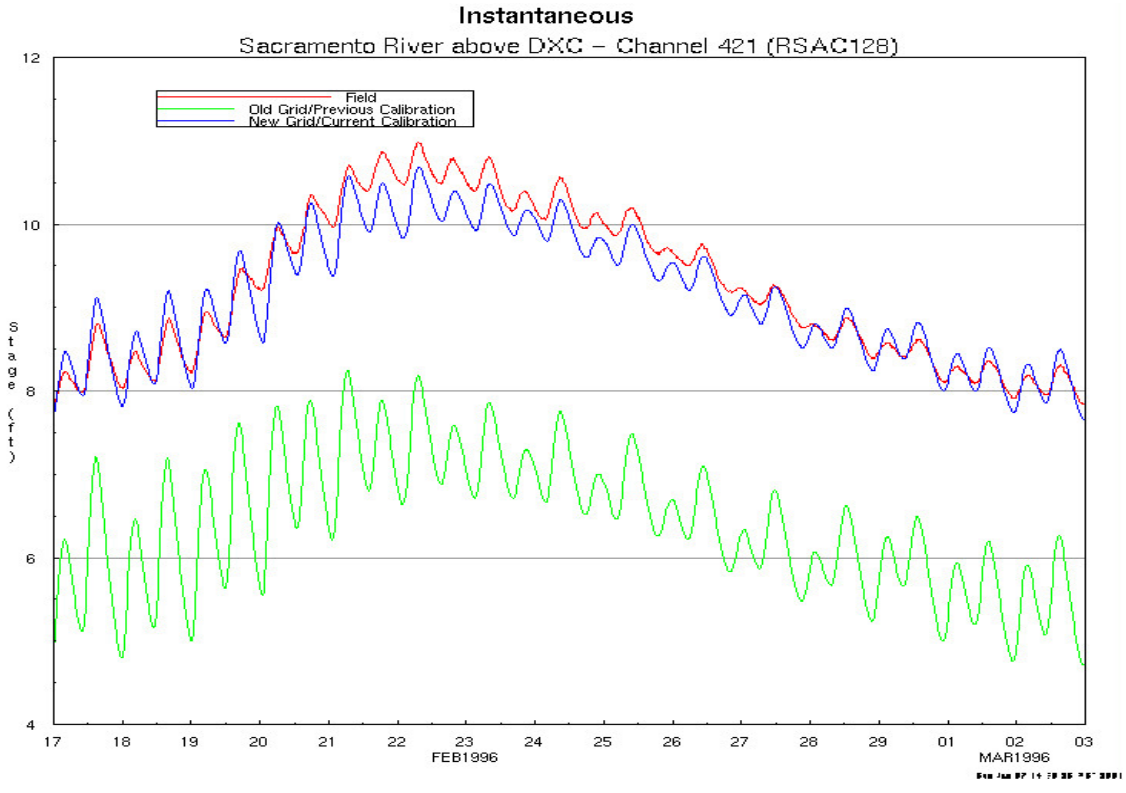


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Figure D-13

DSM2-Simulated and Measured Tidal Stage in the Sacramento River above the Delta Cross Channel near Walnut Grove for January 1997–September 1999 and February 17–March 2, 1996

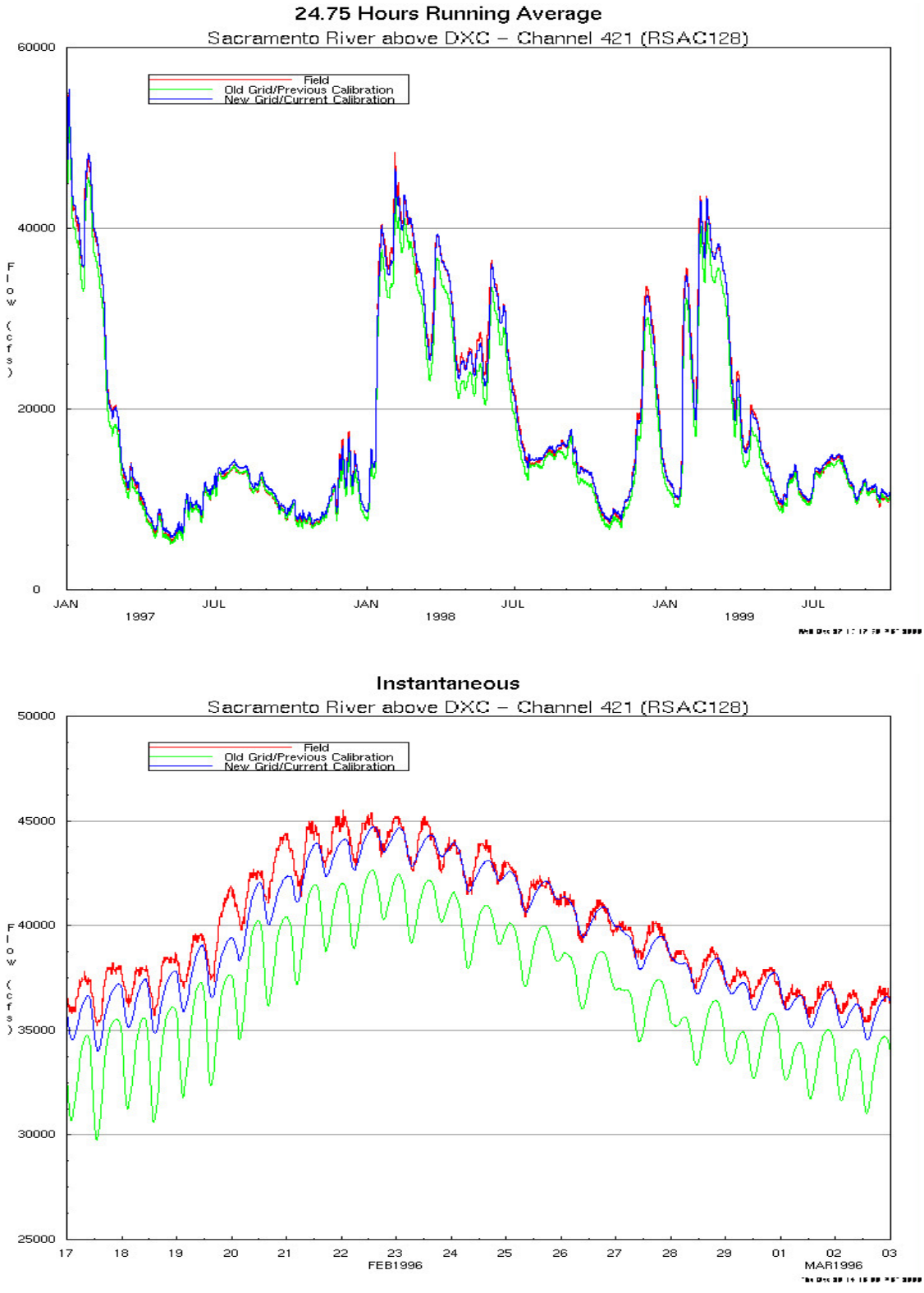

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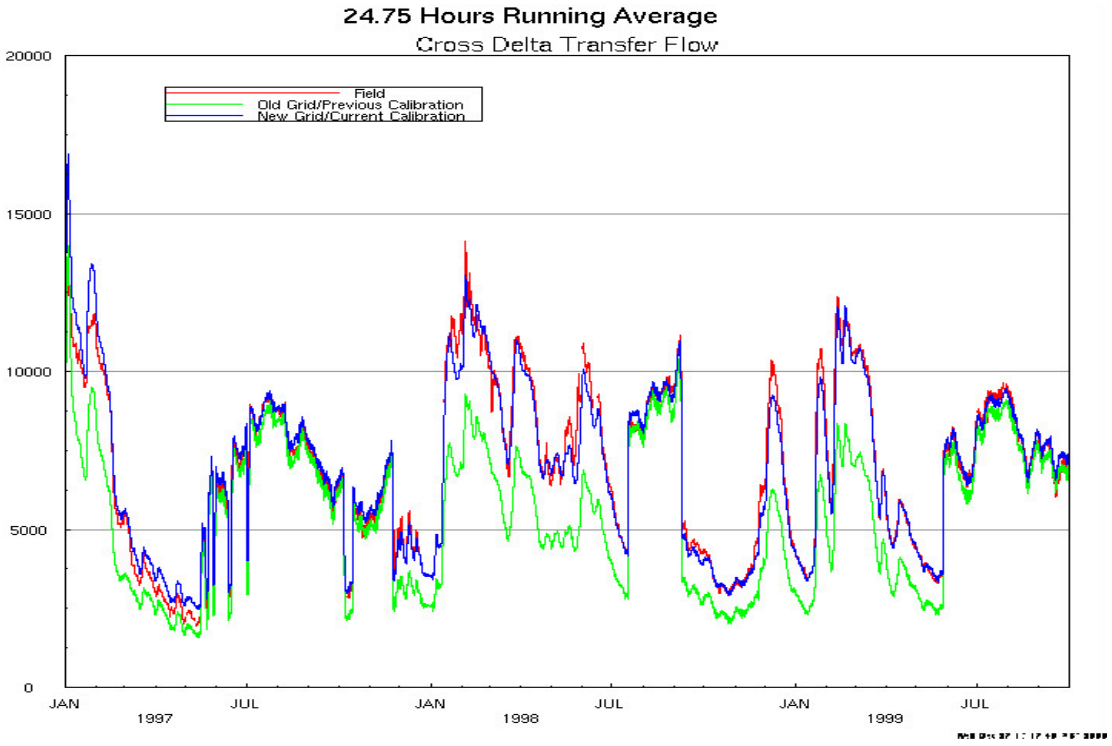
Figure D-14

DSM2-Simulated and Measured Tidal Flow in the Sacramento River above the Delta Cross Channel near Walnut Grove for January 1997–September 1999 and February 17–March 2, 1996 (Delta Cross Channel Closed)



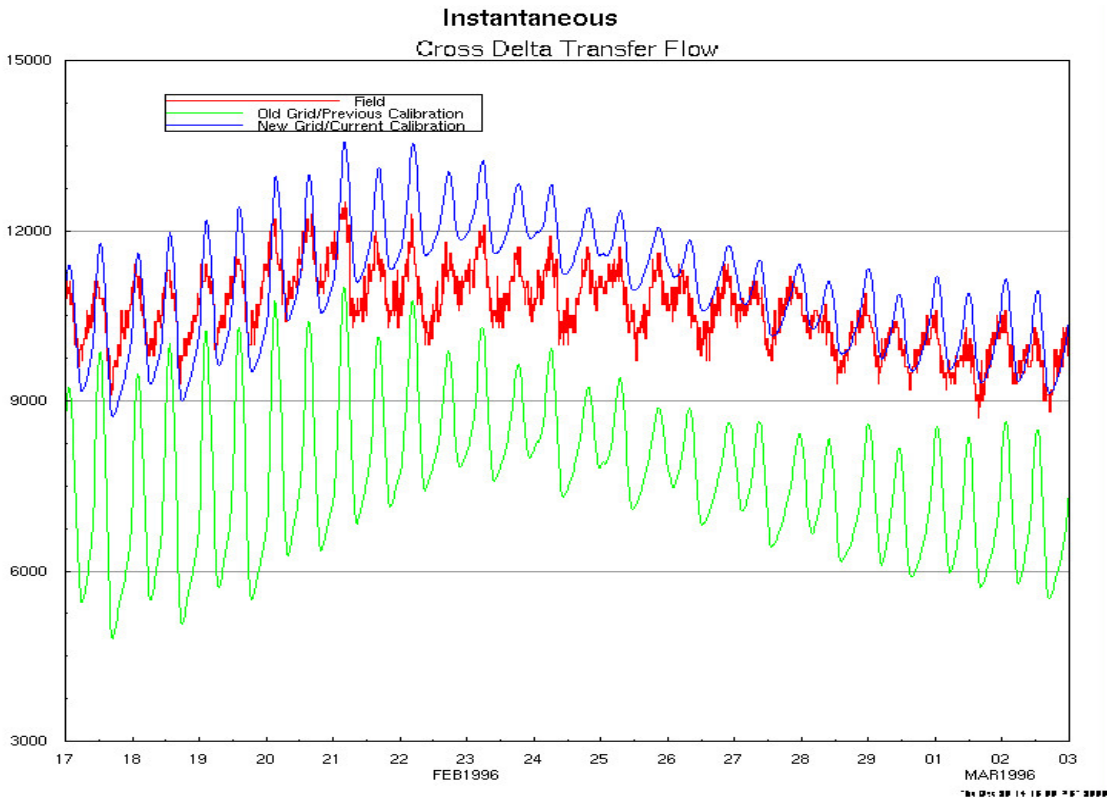


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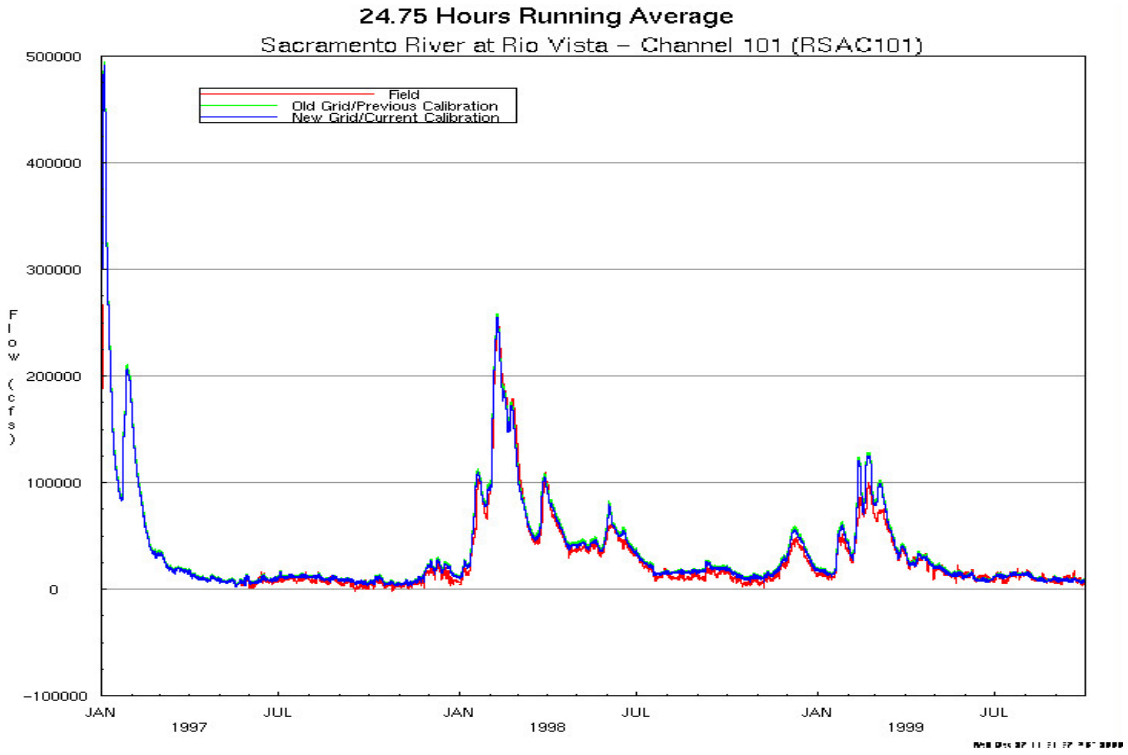
Figure D-15

DSM2-Simulated and Measured Tidal Flow in the Delta Cross Channel and Georgiana Slough near Walnut Grove for January 1997–September 1999 and February 17–March 2, 1996 (Delta Cross Channel Closed)



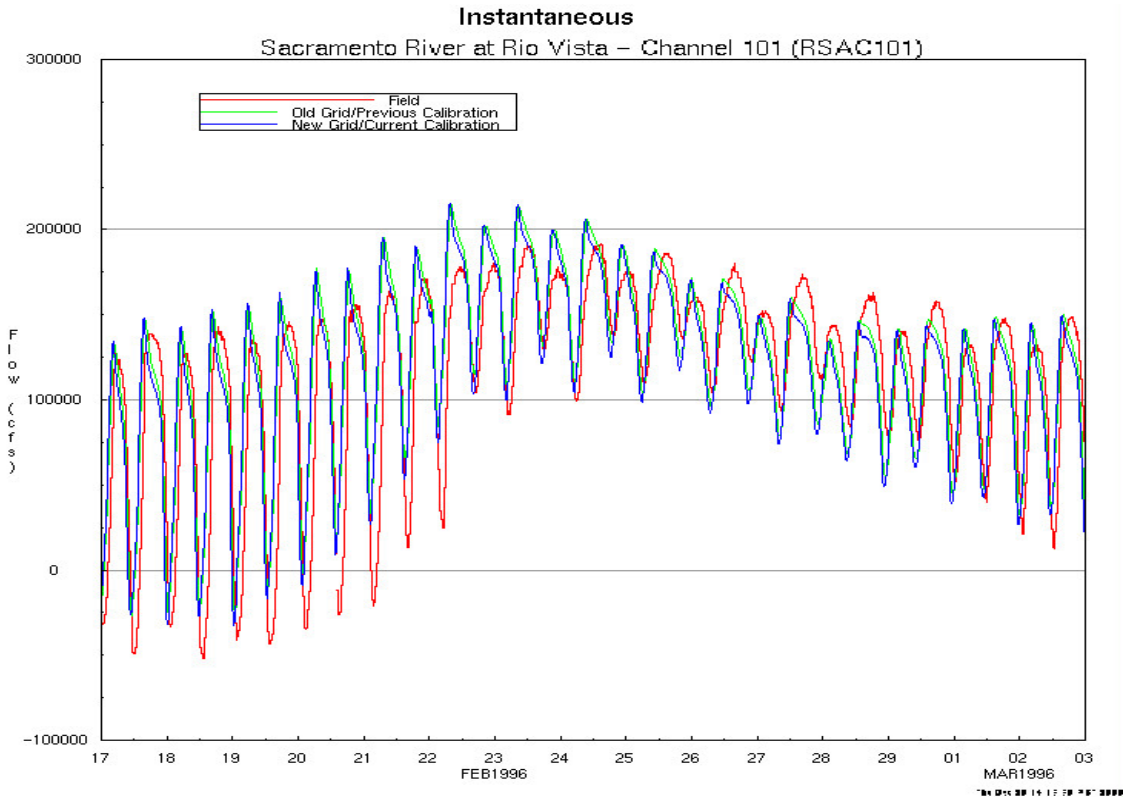


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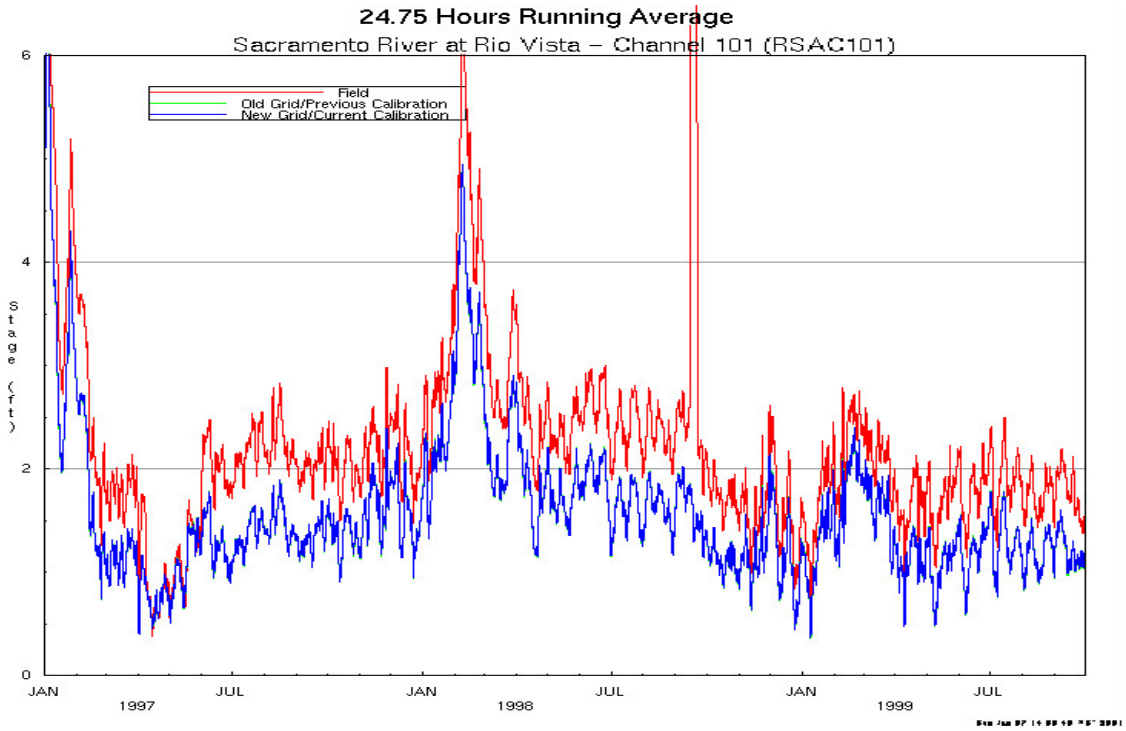
Figure D-16

DSM2-Simulated and Measured Tidal Stage in the Sacramento River at Rio Vista for January 1997–September 1999 and February 17–March 2, 1996



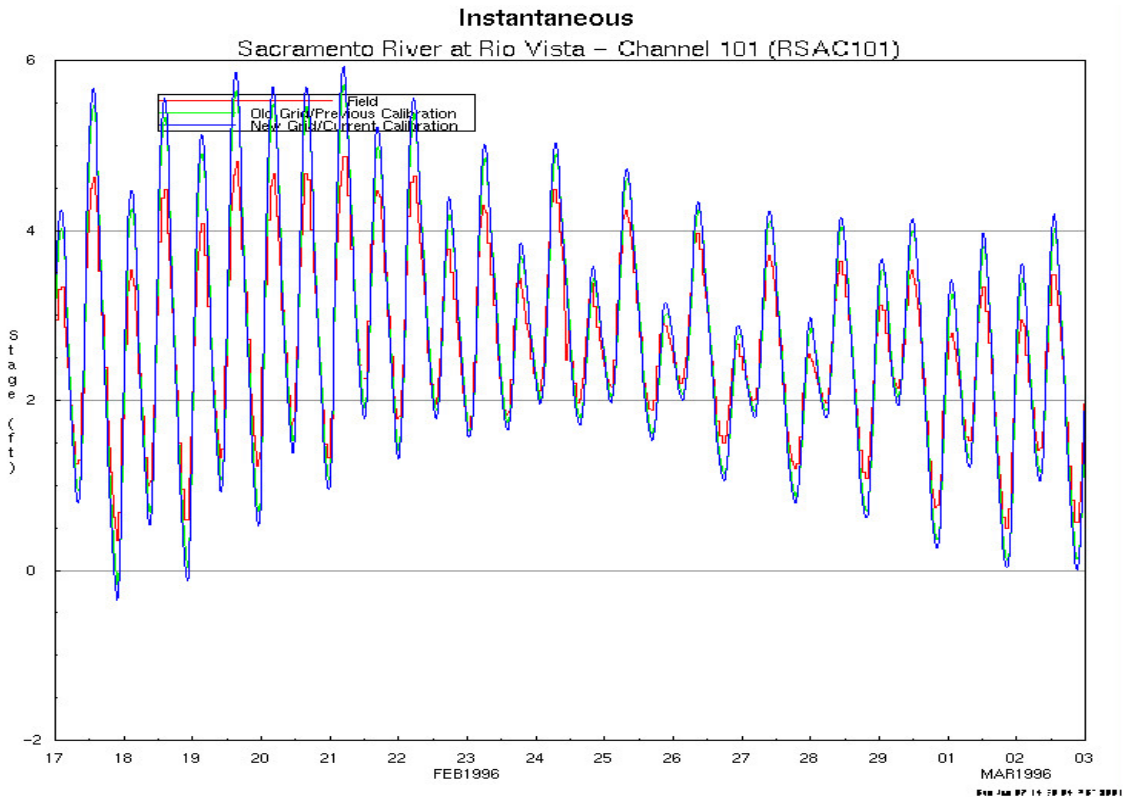


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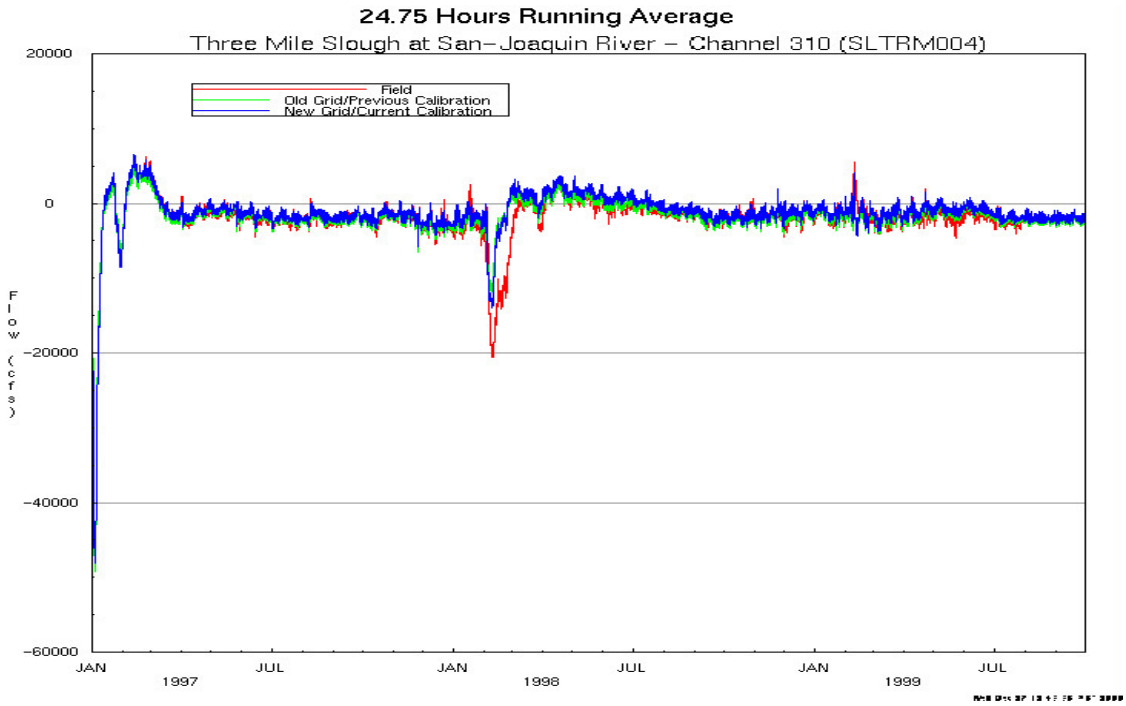
Figure D-17

DSM2-Simulated and Measured Tidal Stage in the Sacramento River at Rio Vista for January 1997–September 1999 and February 17–March 2, 1996



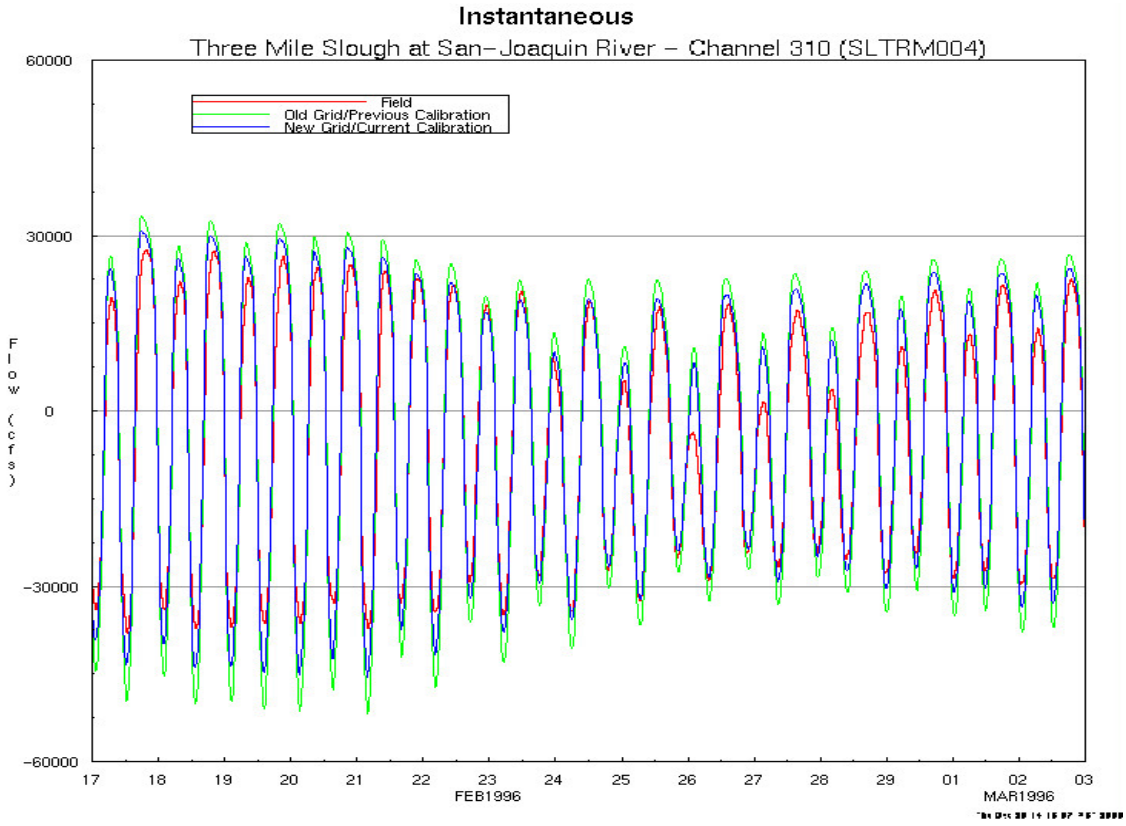


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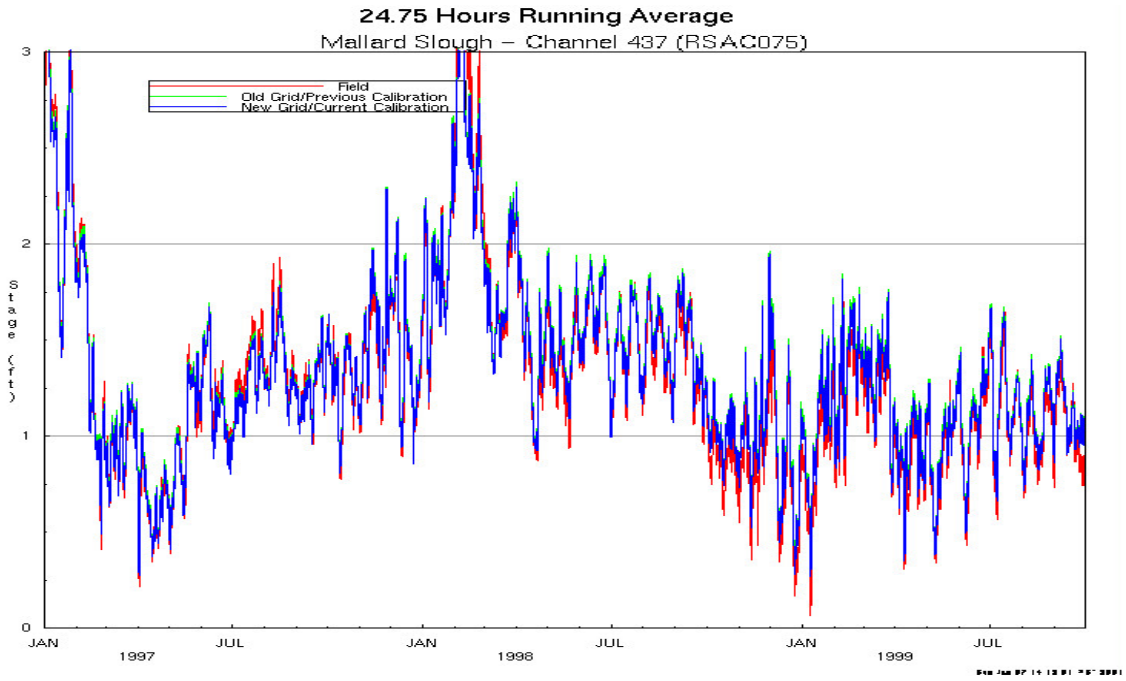
Figure D-18

DSM2-Simulated and Measured Tidal Flow in Threemile Slough for 1997–1999 and February 17–March 2, 1996 (Positive Flow toward Sacramento River)



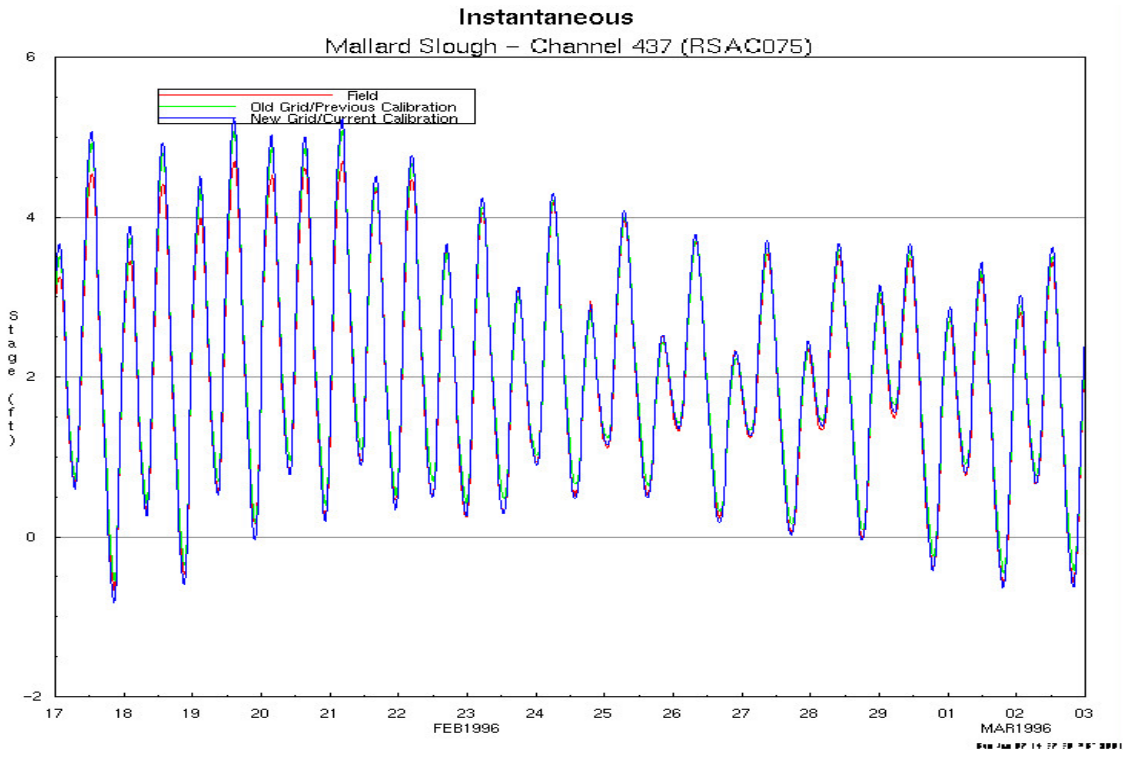


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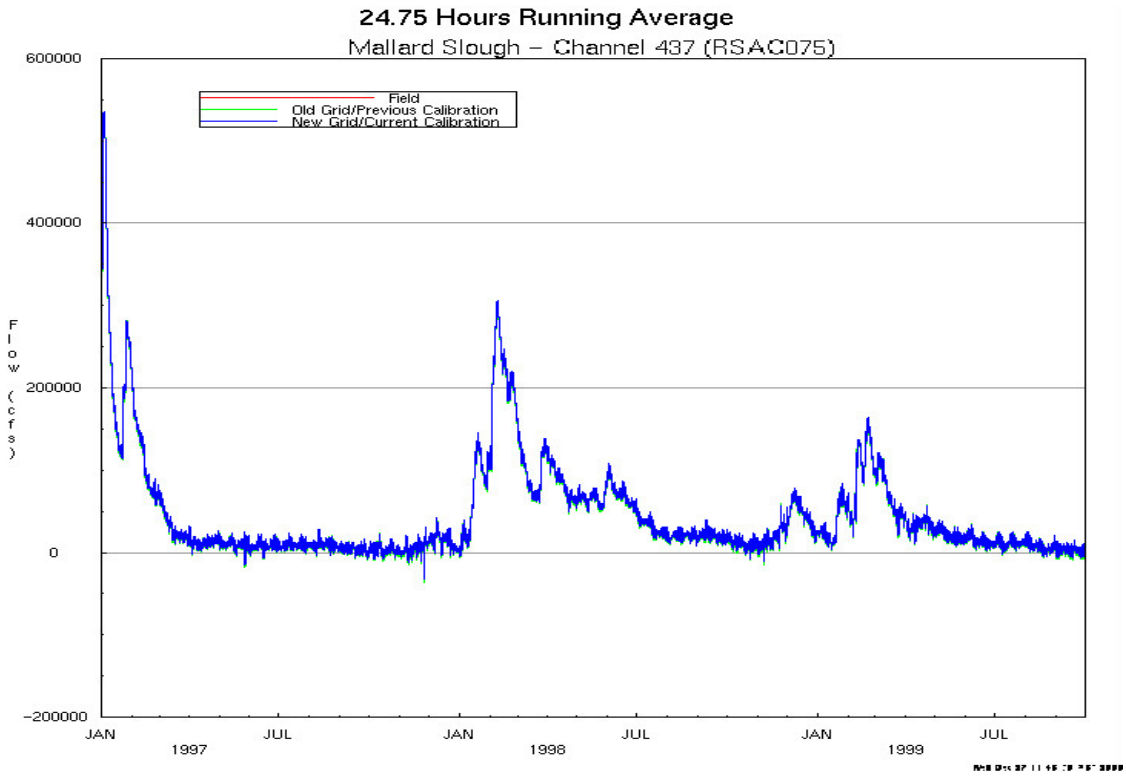
Figure D-19

DSM2-Simulated and Measured Tidal Stage in Mallard Slough (Chipps Island) for January 1997–September 1999 and February 17–March 2, 1996



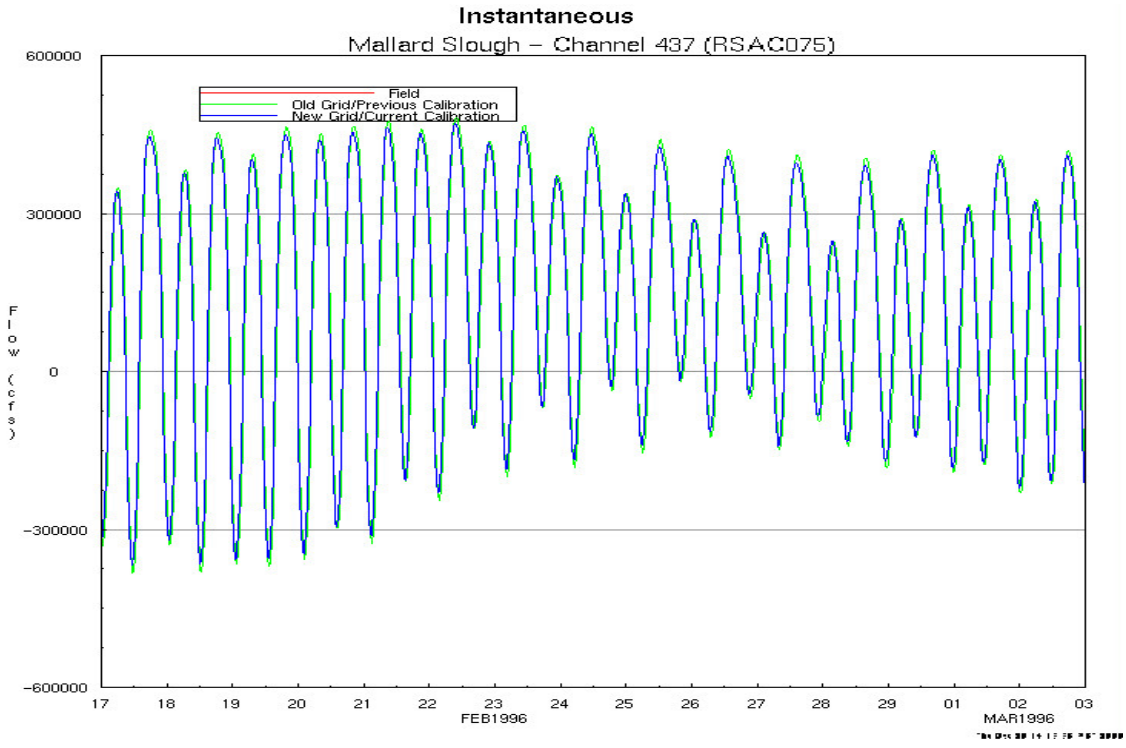


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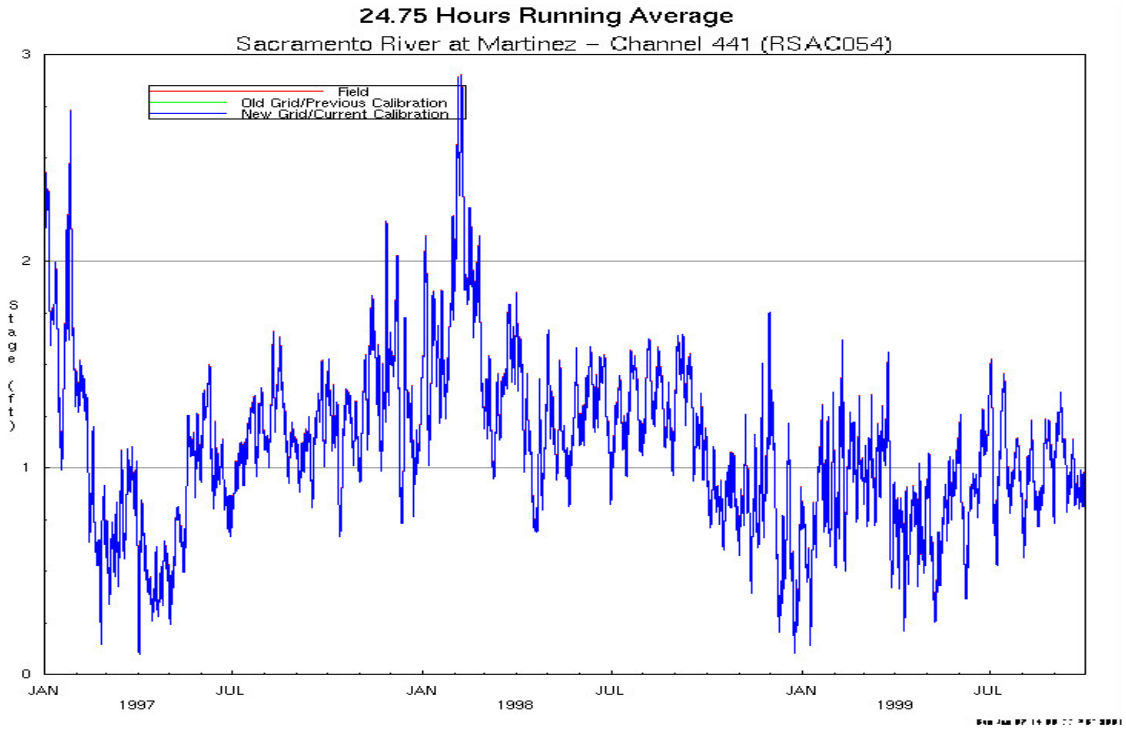
Figure D-20

DSM2-Simulated and Measured Tidal Flow in Mallard Slough (Chipps Island) for January 1997–September 1999 and February 17–March 2, 1996



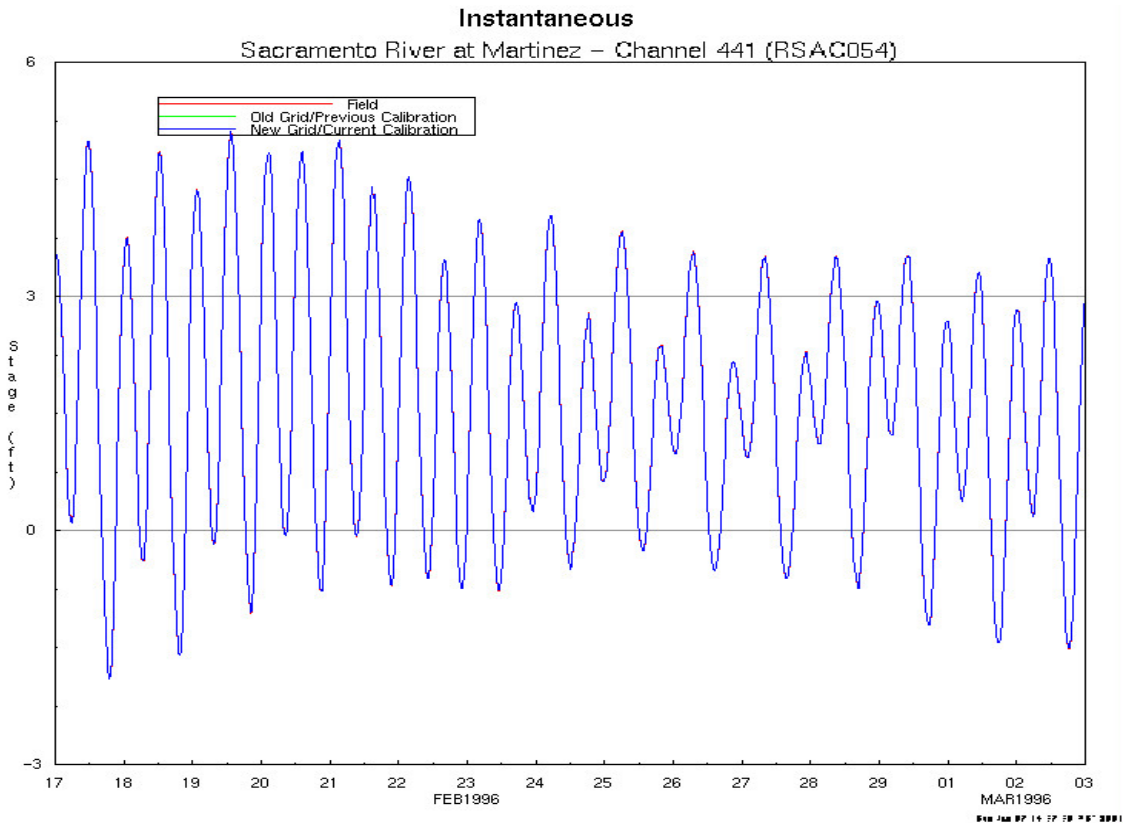


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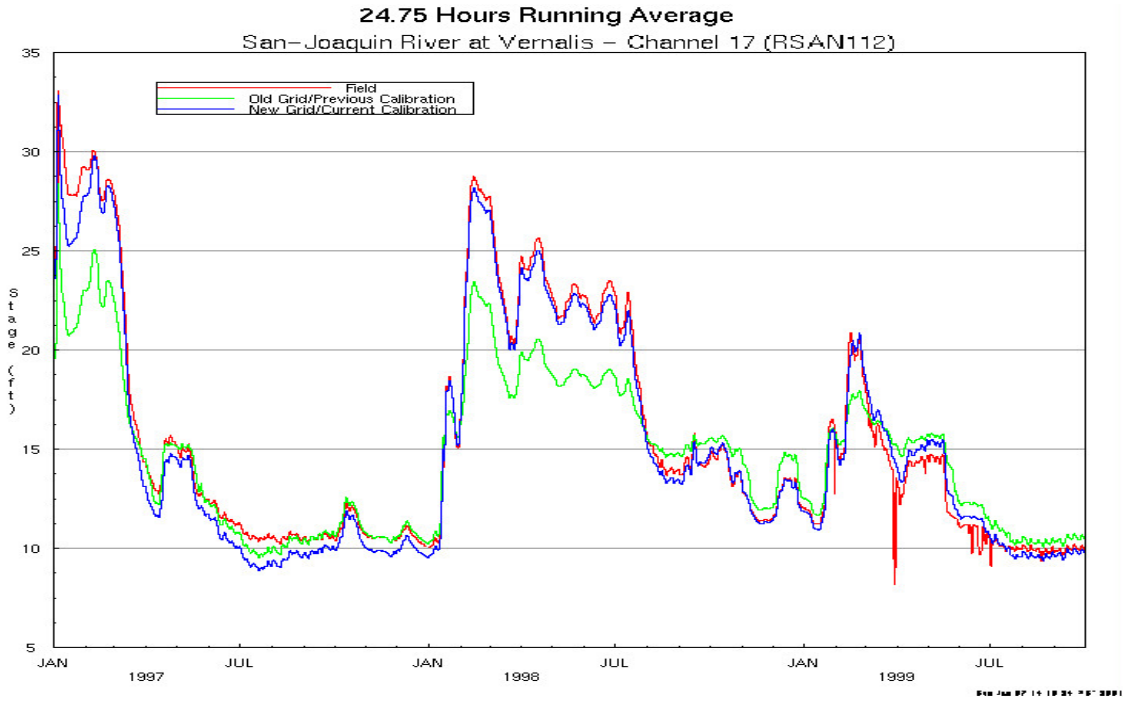
Figure D-21

Measured Tidal Stage Variations in the Sacramento River at Martinez (DSM2 Model Boundary) for January 1997–September 1999 and February 17–March 2, 1996



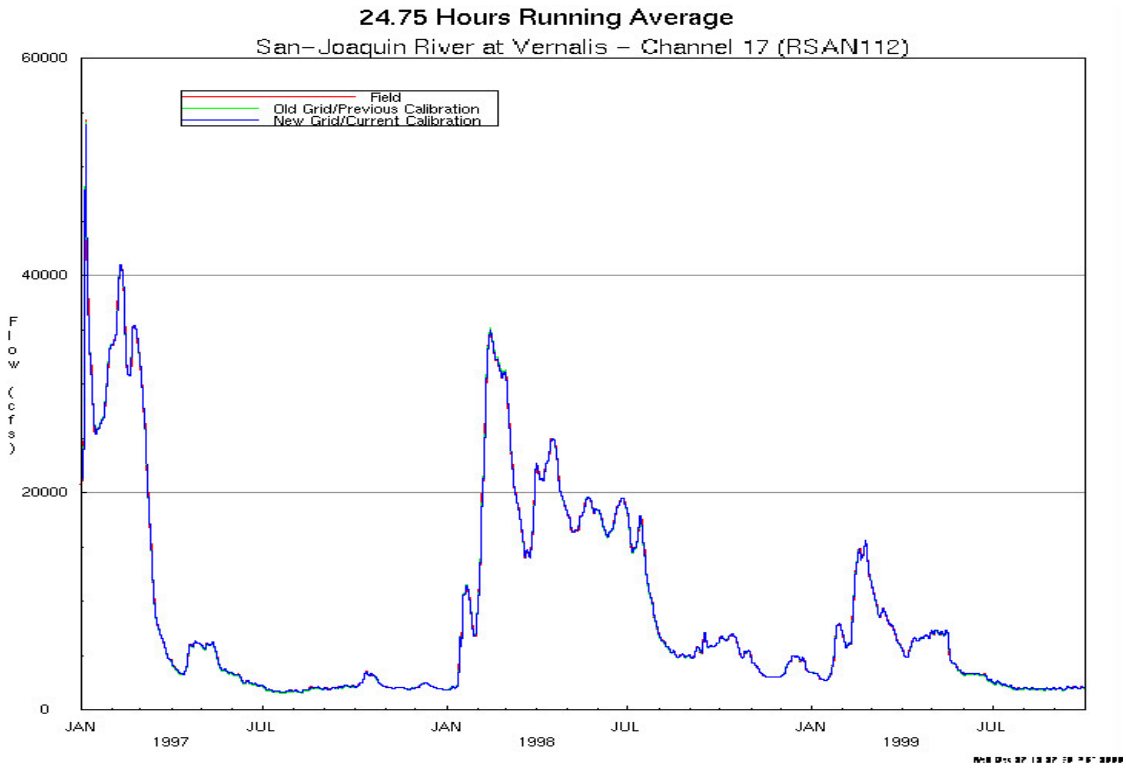


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Figure D-22

DSM2-Simulated and Measured Daily Average Stage and Flow in the San Joaquin River at Vernalis (Upstream Model Boundary) for 1997–1999