

DSM2 Users Group

Delta Modeling Section
January 27, 2004



Meeting Agenda

1. Introduction
2. Recent and current studies using DSM2
3. Current and planned DSM2 development
4. Discussion:
 - General expectations of the Users Group
 - Users' issues of concern of running DSM2

Introduction

- Goals:

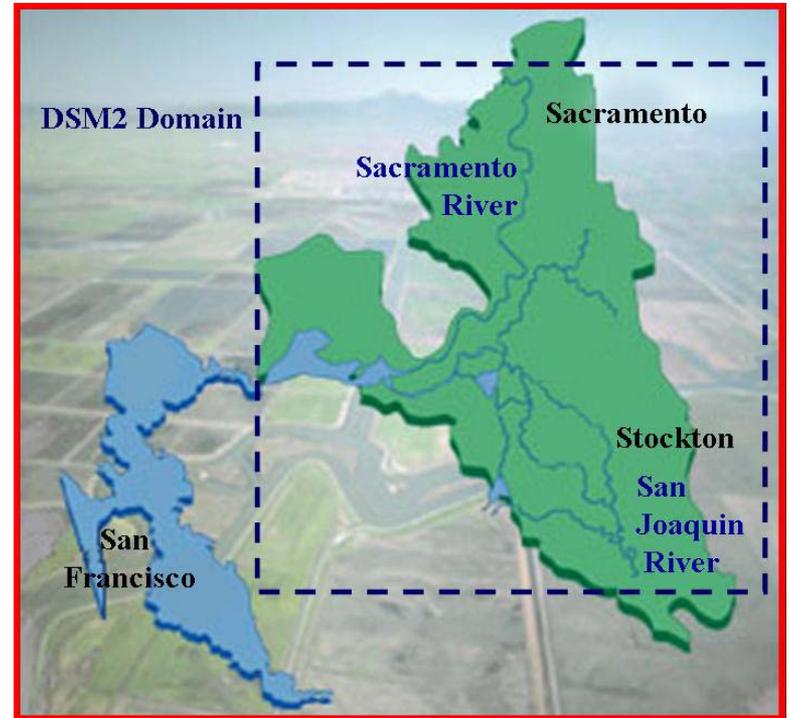
To promote the exchange of ideas, information, and issues involving the development and use of DSM2.

- Objectives:

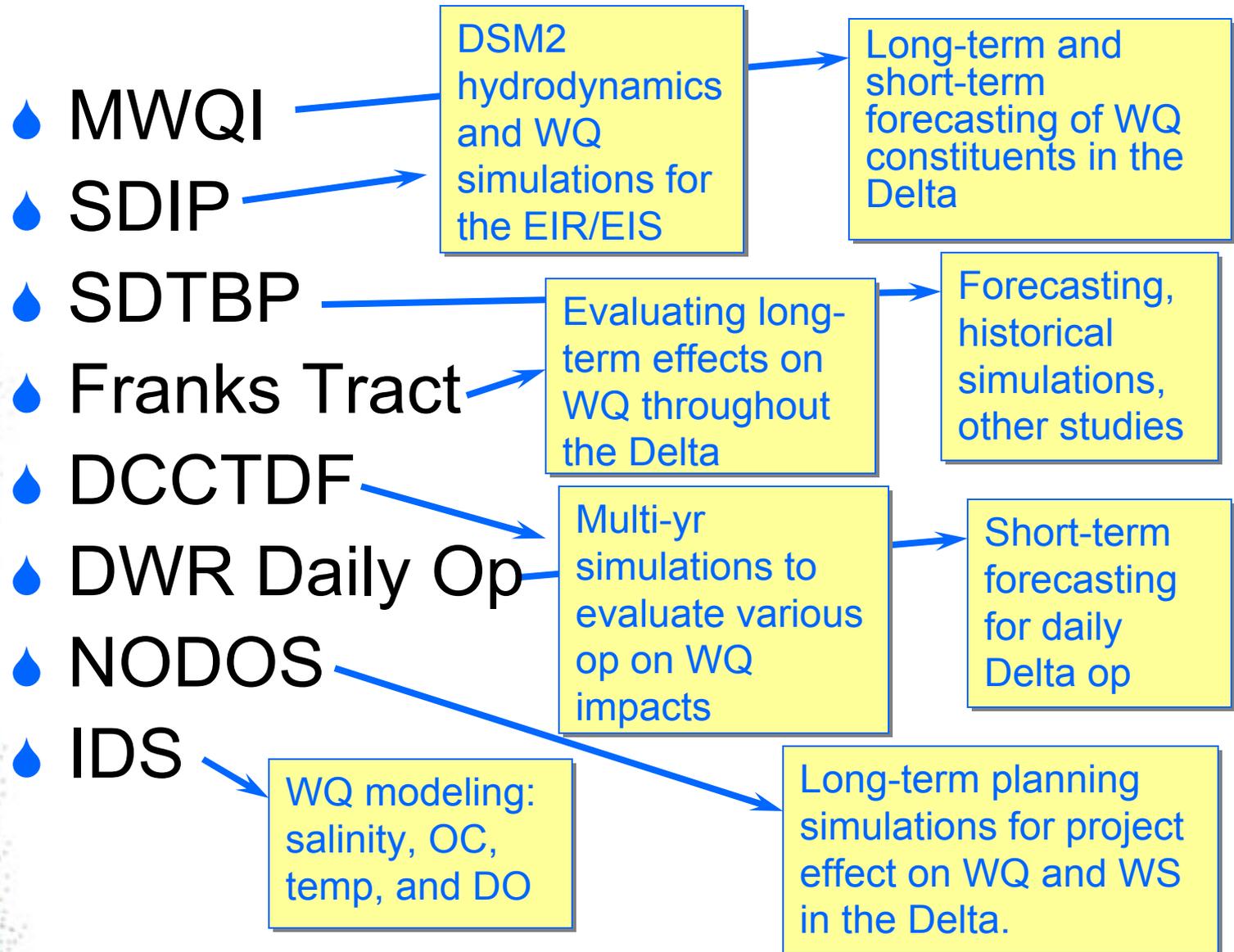
- Direct interaction to better understand users' wishes and needs
- Better sharing of DSM2 FAQs, studies and data
- Users' contributions to DSM2 enhancement

DWR Studies Using DSM2

- 💧 MWQI
- 💧 SDIP
- 💧 SDTBP
- 💧 Franks Tract
- 💧 DCCTDF
- 💧 DWR Daily Op
- 💧 NODOS
- 💧 IDS



DWR Studies Using DSM2



DSM2 Enhancement

- Delta Modeling:
 - Extend the simulation of historical condition to 1975
 - Updated DICU for calendar year 2003
- DES – Suisun Marsh Planning:
 - Geometry update and etc.

DSM2-DB Features

- Fixed data now reads from a relational database, not from text files
 - Better guarantee that different studies using the same Delta design elements will use identical parameters
 - Easier implementation of a GUI
- Graphical User Interface
 - Enables easier review of changes from an initial study

DSM2-DB Features

- Increased Gate Capabilities
 - Gates now are collections of *devices*
 - Devices contain the physical dimensions and parameters of what we now call gates
 - A single gate may contain several independent devices
 - Gates can be operated by several criteria or *triggers* during a model run

DSM2-DB Status

- Add multiple-constituent input for Qual
- Develop three basic runs:
 - Historic, compare to previous validation
 - Planning with temporary barriers
 - Planning with permanent barriers, S. Delta ag barriers operated during run
- All work underway at this time

DSM2-DB Release

- DMS will use for production for several months to test and debug
- Initial release to public will use Access DB
- Eventually we will switch to Informix DB with connection to outside
- Thanks to Eli, Tawnly, and Ed for their work on these features!

GUI Demo

DSM2 Database Interface

File Edit Tools Help

Save Panel Refresh Data

- Simulations
 - planning
 - planning-hydro
 - Grid
 - Reservoirs
 - Channels
 - Gates
 - Transfers
 - Initial Conditions (default)
 - Gate Operating Rules
 - Model Parameters
 - InputTimeSeries
 - Output Time Series
 - planning-qual

Gate Operating Rules

Layer	Gate	Device	Operation Name	Action	Target Value	Ramping	Use
4	Clifton Court	REMOVED	REMOVED	REMOVED	12,000	999999	<input type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	Radial Gate-Fab	openFab-FL	Gate Position	1	60	<input checked="" type="checkbox"/>
4	Grant Line Barrier	Radial Gate-Fab	openFab-STG	Gate Position	1	60	<input checked="" type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Grant Line Barrier	Radial Gate-GL	openGL-FL	Gate Position	1	60	<input checked="" type="checkbox"/>
4	Grant Line Barrier	Radial Gate-GL	openGL-STG	Gate Position	1	60	<input checked="" type="checkbox"/>
4	Middle R Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Middle R Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Middle R Barrier	REMOVED	REMOVED	REMOVED	0.1	999999	<input type="checkbox"/>
4	Middle R Barrier	Radial Gate	openMR-FL	Gate Position	1	60	<input checked="" type="checkbox"/>

Channel_Trigger

Chan #	Distance	Trigger_Variable	< or >	Threshold va...	Anticipation (min)
213	0	Z - Z(gate node)	>	0	0

Reservoir_Trigger

Res Name	Connect Node	Trigger_Variable	< or >	Threshold va...	Anticipation (min)
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input Layers

Layer	Name	
1	CALSIM Delta flow	CALSIM d
2	DICU flow	Delta isla
3	Adjusted Astronomical Tic	Adjusted :
4	Planning Operation Gates	Operation

Windows Taskbar: Start | Microsoft PowerPoint - [D... | DSM2 Users Group - Micro... | DSM2-DB GUI | DSM2 Database Inter... | 10:06 AM

Participants' Expectations of the Users Group

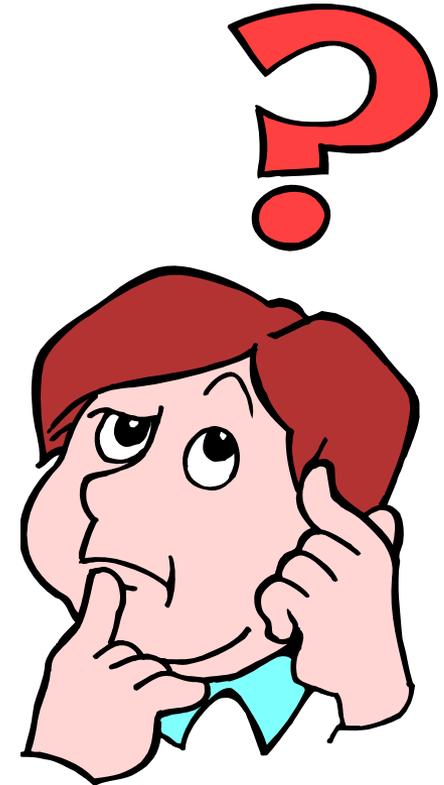
- Website:

<http://baydeltaoffice.water.ca.gov/modeling/deltamodeling/dsm2usersgroup.cfm>

- Online bulletin board:

<http://modeling.water.ca.gov/forum/index.php>

- More?



Users Issues of Concern of Running DSM2



Next Meeting



- April 27, 2004
- Resources Agency, Rm. 210
- Contact info:

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Thank you!