



California Water and Environmental Modeling Forum

Promoting Excellence and Consensus in Water and Environmental Modeling

P.O. Box 488, Sacramento, CA 95812 ♦ 916-607-0435 ♦ cwemf@cwemf.org ♦ www.cwemf.org

Technical Workshop

on

Modeling Issues of the Delta

Tuesday, February 6, 2007

9:30 a.m. to 4:30 p.m.

Joe Serna Jr. Cal-EPA Building
Byron Sher Auditorium (2nd Floor)
1001 "I" Street, Sacramento, CA

Fee: No-charge.

Pre-registration is not required. However, if you plan on attending,
please send an email to cwemf@cwemf.org

Core Questions

- What are the intended applications of DSM2 and other Delta models in the next 10 years?
- What is the current performance of DSM2 in historical simulations and in foreseeable applications?
- What are the critical improvement needs of Delta models?

Agenda

9:30 a.m. **Introductory Remarks** – Jamie Anderson (CA DWR)

9:45 a.m. **Review and Open Discussion on Modeling Issues of the Delta** – All
Paul Hutton (MWDSC), Moderator

Each modeling issue listed below will be addressed in turn, with short presentation(s) to provide background information relevant to the Delta (no longer than 15 minutes in total for each issue) and followed by open discussion. Initials in brackets denote presenters (see list below) for the specific issue:

CE – Chris Enright (CA DWR)
CR – Cathy Ruhl (USGS)
JA – Jamie Anderson (CA DWR)
JW – Jim Wilde (CA DWR)
KT – KT Shum (EBMUD)
LK – Levent Kavvas (UC Davis)
LS – Larry Smith (USGS)
MG – Marianne Guerin (CCWD)
PN – Parviz Nader (CA DWR)
PS – Pete Smith (USGS)
TS – Ted Swift (CA DWR)

Uncertainties in Model Input

- ◆ Geometry (CE, JA)
- ◆ In-Delta agricultural use (JW, KT)
- ◆ Banks pumping (KT)
- ◆ Duck clubs (CE)
- ◆ Available field measurements and historical periods for calibration (CR/PS, CE)
- ◆ Conversion between different salinity parameters (JA, KT)

Model Assumptions and Formulations

- ◆ Frictional dissipation (LK, CE)
- ◆ Dispersive transport (LK, PS)

12:30 p.m. **Lunch Break** (on your own)

1:30 p.m. **Review and Open Discussion on Modeling Issues of the Delta (cont.)** – All
Chris Enright (DWR), Moderator

Model Assumptions and Formulations (cont.)

- ◆ Model boundary (CE, PN, PS, KT)
- ◆ Open water areas (CE, KT)
- ◆ Gates (PN, KT)
- ◆ Wind (PS)

Measures of Model Performance

- ◆ Comparison to field data and the quality of flow, stage, and salinity measurements (CE, LS, MG, PN, PS)
- ◆ Presentation of results (CE, TS)

3:30 p.m. **Summary of Consensus and Outstanding Issues** – All
KT Shum (EBMUD), Moderator

4:15 p.m. **Next Steps** – Jamie Anderson (DWR)

4:30 p.m. **Adjourn**