

CVP Water Temperature Modeling Platform, MTC Shasta TCD Modeling Subgroup Meeting #1

27 July 2022; 12:00 p.m. – 2:00 p.m.



— BUREAU OF —
RECLAMATION

Zoom Info:

[CVP Water Temperature Modeling Platform, MTC Shasta TCD Modeling Subgroup Meeting #1, Meeting Registration](#)

The Modeling Technical Committee is an open forum with scheduled quarterly meetings for collaboration on WTMP development and progress review. Active participation and constructive contribution by professionals, stakeholders and interested parties is encouraged to improve project products and applications.

Objectives

- Provide an effective venue for topic-specific discussions under the MTC framework
- Establish common understanding of the functions of Shasta TCD
- Developed shared knowledge for how Shasta TCD is modeled in the WTMP element model and receive input from subject matter experts

Agenda

Time	Topic	Presenter(s)	Purpose
12:00	Introduction, Meeting Logistics and Welcome Remark	Yung-Hsin Sun Randi Field	Informational
12:07	Significance of the Shasta TCD for temperature management in the Sacramento River*	Randi Field Yung-Hsin Sun	Shared understanding
12:20	Review of Shasta TCD Modeling and group Discussion – Part 1 <ul style="list-style-type: none">• Specifications of the TCD that are important for modeling• Modeling approximation to TCD specifications	Mike Deas Yung-Hsin Sun and Group	Shared understanding through interactive discussion
1:00	5 min break	-	-

Time	Topic	Presenter(s)	Purpose
1:05	Review of Shasta TCD Modeling and group Discussion – Part 2 <ul style="list-style-type: none"> • Modeling conceptual approximation for simulating selective withdrawal strategy and actions • Verification of hypothesis for modeling conceptual approximation • Ongoing and planned activities for future improvements 	Mike Deas Yung-Hsin Sun and Group	Shared understanding through interactive discussion
1:50	Next Steps <ul style="list-style-type: none"> • Overall feedback on subgroup functions • Report back to MTC 	Yung-Hsin Sun Randi Field	Informational
2:00	Adjourn	-	-

Some helpful references (as the modeling documentation is under development):

- Watercourse Engineering. 2020. [Shasta Lake and Keswick Reservoir Flow and Temperature Modeling – Development Report](#). Prepared for Sacramento River Settlement Contractors. 250 pps.
- Reclamation. 1999. [Shasta Temperature Control Device, CFD Modeling Study](#). 95 pps.
- U.S. Geological Survey. 1998. [Pre- and Post-Operational Effects of a Temperature Control Device on Physical, Chemical, and Biological Attributes of Shasta Lake, California: Phase 1, Spring 1995 through Fall 1997](#). Open-file Report 98-251. 135 pps.