

Integrated Modeling Framework Workshop Agenda

One Delta, One Science, One Modeling Framework

February 28 & March 1, 2023



**Delta
Science
Program**

DELTA STEWARDSHIP COUNCIL



Plenary



Presentations



**Panel & Breakout
Group Discussions**

#DeltaModelingFramework

Day 1 – February 28, 2023

Plenary: Collaborative Modeling for the Delta's Grand Challenges

Moderator: Laurel Larsen, Delta Lead Scientist

9:00 **Welcome** – *Laurel Larsen, Delta Lead Scientist.*

9:10 **Grand Challenges in Earth System Modeling to Support Management of Coupled Natural-Human Systems** – *Cisco Werner, Chief National Oceanic and Atmospheric Administration Science Advisor*

9:30 **One Modeling Framework for Key Agencies** – *Kristin White, United States Bureau of Reclamation*

9:55 **Agency-Academic Partnerships: The Chesapeake Bay Success Story** – *Raleigh Hood, University of Maryland*

10:20 **Break**

Panel: Modeling Framework Case Studies and Use Cases and Lessons Learned

Moderator: Steve Culberson, Interagency Ecological Program (IEP) Lead Scientist

10:35 **Overview** – *Steve Culberson, IEP Lead Scientist*

10:40 **Introductions** – Panelists will give a brief overview of their work in preparation for the panel discussion.

10:50 **Panel Discussion**
Eric Danner, National Oceanic and Atmospheric Administration Fisheries
Andrew Schwarz, California Department of Water Resources
Lisa Lucas, United States Geological Survey
Alison Whipple, San Francisco Estuary Institute
Derya Sumer, United States Bureau of Reclamation

11:45 **Lunch**



Breakout Session: Discover Use Cases and Case Studies

Workshop attendees will split into smaller breakout rooms, where they will be lead through a series of questions and prompts about use cases and case studies. This will allow for individuals to share their unique experiences with the larger community.

1:15 **Breakout Sessions**

3:00 **Reporting Out from Breakout Groups**

3:30 **Adjourn for the Day**

Day 2 – March 1, 2023

9:00 **Welcome & Overview and Orientation** – Laurel Larsen, Delta Lead Scientist

Panel: Open Science and Collaboration Resources

Moderator: Peter Goodwin, University of Maryland Center for Environmental Science

9:05 **Overview**

9:10 **Introductions** – Panelists will give a brief overview of their work in preparation for the panel discussion.

9:25 **Panel Discussion**

Irina Overeem, Community Surface Dynamics Modeling System

Dave Bosworth, California Department of Water Resources

Greg Gearheart, State Water Resources Control Board

Erin Hestir, University of California – Merced

10:20 **Break**



Session: Deep Dive into Modeling Frameworks

Moderator: Ben Geske, Delta Science Program

10:40 **Overview**

10:45 **Lightning Talks** – Panelists will give a brief overview of their work in preparation for the panel discussion.

Framework for Production Modeling – *John DeGeorge, Resource Management Associates*

Frameworks Help Us Work Together – *Jay Lund, University of California, Davis*

Community Surface Dynamics Model System – *Irina Overeem, Community Surface Dynamics Modeling System*

COEQWAL: Equitable Stewardship of California's Water in a Changing Climate – *Ted Grantham, University of California – Berkeley*

Modeling that Supports Decision-Making Under Deep Uncertainty – *Lisa Wainger, Chesapeake Biological Lab/UMCES*

11:30 **Panel Discussion**

12:00 **Lunch**

Breakout Session: Resources for Promoting Open Science and Collaborative Modeling

Workshop attendees will split into smaller breakout rooms, where they will be lead through a series of questions and prompts about the individual aspects or components of a modeling framework. This will allow for individuals to share their unique experiences with the larger community.

1:30 **Breakout Session**

3:15 **Reporting Out from Breakout Groups**

3:45 **Adjourn Workshop**

Workshop Planning Committee

Co-Chairs:

Laurel Larsen, Delta Lead Scientist

Ben Geske, Delta Science Program

Members:

Michael Beakes, United States Bureau of Reclamation

Maggie Christman, Delta Science Program

Cory Copeland, Delta Stewardship Council

Steve Culberson, Interagency Ecological Program

Henry DeBey, Delta Science Program

John DeGeorge, Resource Management Associates

Pascale Goertler, Delta Science Program

Peter Goodwin, University of Maryland

Erin Hestir, University of California – Merced

Myfanwy Johnston, Cramer Fish Sciences

Steve Lindley, National Oceanic and Atmospheric Administration

Jay Lund, University of California – Davis

Russ Perry, United States Geological Survey

Sujoy Roy, Tetra Tech

Nicky Sandhu, California Department of Water Resources

Mark Stacey, University of California – Berkeley

Vanessa Tobias, United States Fish & Wildlife Service

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Lauren Hastings, Delta Stewardship Council