



Independent Peer Review of SCCWRP's Coupled Regional Ocean Monitoring System and Biogeochemical Elemental Cycling Model

Independent Peer Review Panel - January 17, 2024



Welcome

Kevin M. Hardy
Executive Director

Wi-Fi access
Network: AtriumVIP
Password: TGCG307!



This meeting is
being recorded and will be
posted to the Project web page.

Meeting Guidelines

- Live
 - Hybrid meeting arrangements; complex materials
 - Support our presenters
- Online
 - Mute your microphone unless recognized to speak
 - Preserve bandwidth
- Everyone
 - Interactive Technical Sessions Panelist questions prioritized
 - NWRI will monitor the online chat feature
 - Thank you for supporting NWRI!



NWRI is...

Kevin Hardy

Executive Director

A national model for the collaborative advancement of water resources science, policy, and innovation.

The independent advisory services provider of choice for the most challenging water resource management, water quality and regulatory issues.

We strive to provide unique insights that are valuable for our international community of practice.



Independent Peer Review Panel

- W. Gordon Zhang, PhD, Woods Hole Oceanographic Institution
- Neil Banas, PhD, University of Strathclyde (UK)
- Fei Chai, PhD, University of Maine
- Marjy Friedrichs, PhD, Virginia Institute of Marine Science
- Alexander Kurapov, PhD, NOAA
- Michael Stukel, PhD, Florida State University



Project Steering Committee

Steering Committee Members

- Lorien Fono, Bay Area Clean Water Agencies
- David Gibson, Regional Water Quality Control Board, San Diego Region
- Justine Kimball, Ocean Projection Council
- Karen Mogus, State Water Resources Control Board, Division of Water Quality
- Steve Wagner, Goleta Sanitary District
- Lan Wiborg, Orange County Sanitation District

Ex Officio Science Advisors

- Sean Bothwell, California Coastkeeper Alliance
- Kristin Davis, PhD, University of California, Irvine
- Steve Weisberg, Southern California Coastal Water Research Project



Modeling Team Members

- Daniele Bianchi, University of California, Los Angeles
 - Curtis Deutsch, Princeton University
 - Christina Frieder, SCCWRP
 - Fayçal Kessouri, SCCWRP
 - Karen McLaughlin, SCCWRP
 - Jim McWilliams, University of California, Los Angeles
 - Martha Sutula, SCCWRP
- * SCCWRP = Southern California Coastal Water Research Project

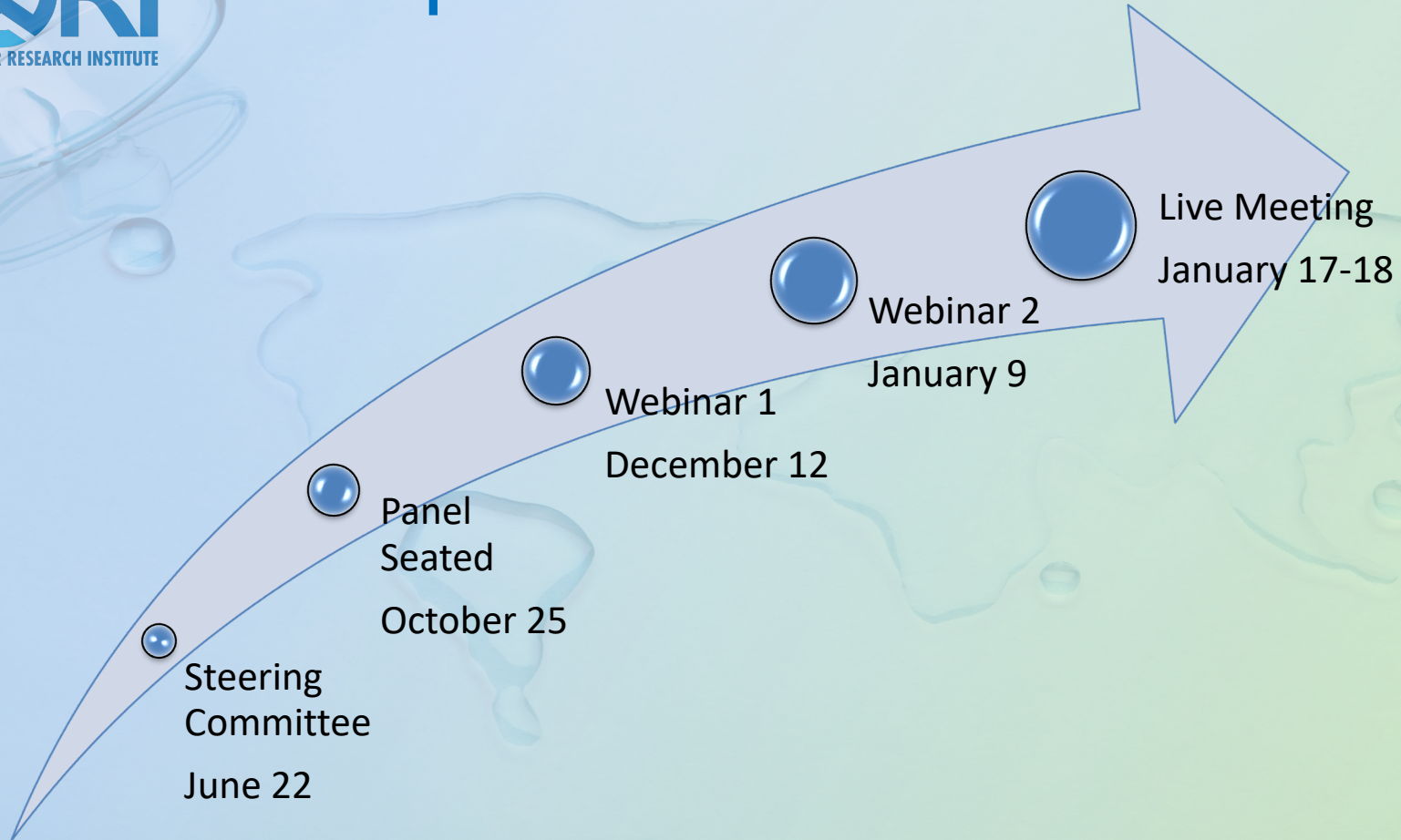
Goals of Independent Review

1. Assess model readiness to answer management questions.
2. Advise on model uncertainty associated with addressing management questions.
3. Recommend next steps for improving the model readiness.

Panel Charge Questions

1. Do the ROMS, BEC, and coupled model's fundamental modeling choices enable the coupled model to predict the physical and biogeochemical processes impacting ocean acidification and hypoxia in the Southern California Bight?
2. Inventory and characterize sources of uncertainty and bias in the ROMS, BEC and coupled model's inputs, parameters, and outputs.
3. What portfolio of investments would best promote long-term, continuous improvement of the model's predictive accuracy and potential scope of use?

Independent Review Process



Today's Objectives

- Review the coupled model's local inputs, applications, and outcomes plus efforts to characterize and resolve model uncertainty.
- Provide a public forum for stakeholders to present their views on the challenges and opportunities presented by the coupled model.
- Allow time for participants to engage in both facilitated and impromptu technical and scientific dialogue.
- Begin drafting the Panel's consensus findings and recommendations and plan an approach for writing the Draft Report.



Agenda – January 17, 2024

Time	Topic
8:00 am	Call to Order, Welcome, and Logistics
8:15 am	Technical Session 1: Local Inputs
9:00 am	Q&A for the Presenters
9:15 am	Technical Session 2: Application of the Model and Related Outcomes
10:00 am	Q&A for the Presenters
10:15 am	Nutrition Break Adjourn Teleconference
10:30 am	Travel to Orange County GWRS
11:00 am	Stakeholder Exchange: Potable Reuse Source Water Production
1:00 pm	Lunch
1:30 pm	Stakeholder Exchange: Potable Reuse Advanced Water Treatment



Modeling Team, SCCWRP

Technical Session 1:
Local Inputs



Modeling Team, SCCWRP

Technical Session 2: Application of the Model and Related Outcome