

WELCOME TO THE SCCWRP COMMISSION MEETING

- **Commissioner participation**

- All Commissioners will be unmuted, but asked to self-mute unless speaking
- Commissioners are requested to keep their camera on

- **Voting**

- All votes will be conducted via roll call (A Brown Act requirement for remote meetings)

- **Audience participation**

- We will take public comment associated with each agenda item, plus a comment period for non-agenda items as Agenda item 16
- If you would like to comment, please enter your question/comment in the Q&A box
- Please indicate if you would like to verbalize the comment yourself, or have it read for you

A TURNING POINT

- **Our coupled physical-biogeochemical model is maturing**
 - We built/validated the model using data from the 1990's (when a wide range of oceanic conditions enhanced testing model performance)
 - The model has now been updated to present day conditions
 - We will always be improving the model, but it is already among the best of its kind
- **Now is a good time to turn attention to model application**
 - Identifying scenarios you would like us to evaluate
- **But first, we need an interpretational construct for model output**
 - Model predicts future chemistry conditions, but your interest is in how that affects biology

TARGET UNCERTAINTY

- **Which endpoints?**

- Exposure measures
- Physiological measures
- Fitness measures
- Population response

- **Which species?**

- Most sensitive
- Most ecologically important
- Most economically important
- Or do you want to look past an individual species to a community-level response?

RESPONSE THRESHOLD SELECTION

- **What part of the biological response range?**
 - Do you use the lower end of the threshold range, the upper end or the median?
- **Variable exposure conditions**
 - Our present biological thresholds are based on constant exposure
 - However, exposure changes during the day with photosynthesis and organism movement
 - Model captures that variability and provides options for how we consider variable exposure
- **Multi-stressor response**
 - Acidification covaries with oxygen and temperature, which also affect organism response
 - We can apply a multi-stressor response to the model output, but we don't yet understand well enough how those factors interact

THREE PRESENTATIONS

- **Martha will describe our efforts to update the model to present day**
 - She will also describe a workshop we are planning to help everyone understand the level of certainty and uncertainty you can expect from the model
- **Nina will describe studies we are conducting to help you pick the biological response thresholds we should use in model application**
- **Karen will describe regional monitoring we are using to help validate the laboratory-derived thresholds and model's biological output**
- **Our hope is to begin getting your feedback about the best way to incorporate this information into future model runs**

TENTATIVELY SCHEDULED AGENDA ITEMS

- **Microplastics theme in June**
 - Microplastics methods evaluation study outcome
 - Microplastics health effects thresholds – findings from meta-analysis
 - Microplastics input measurements from stormwater and wastewater – early stages
- **You asked for a Wastewater Based Epidemiology update for the next several meetings**
- **You asked for a Vibrio presentation in September**