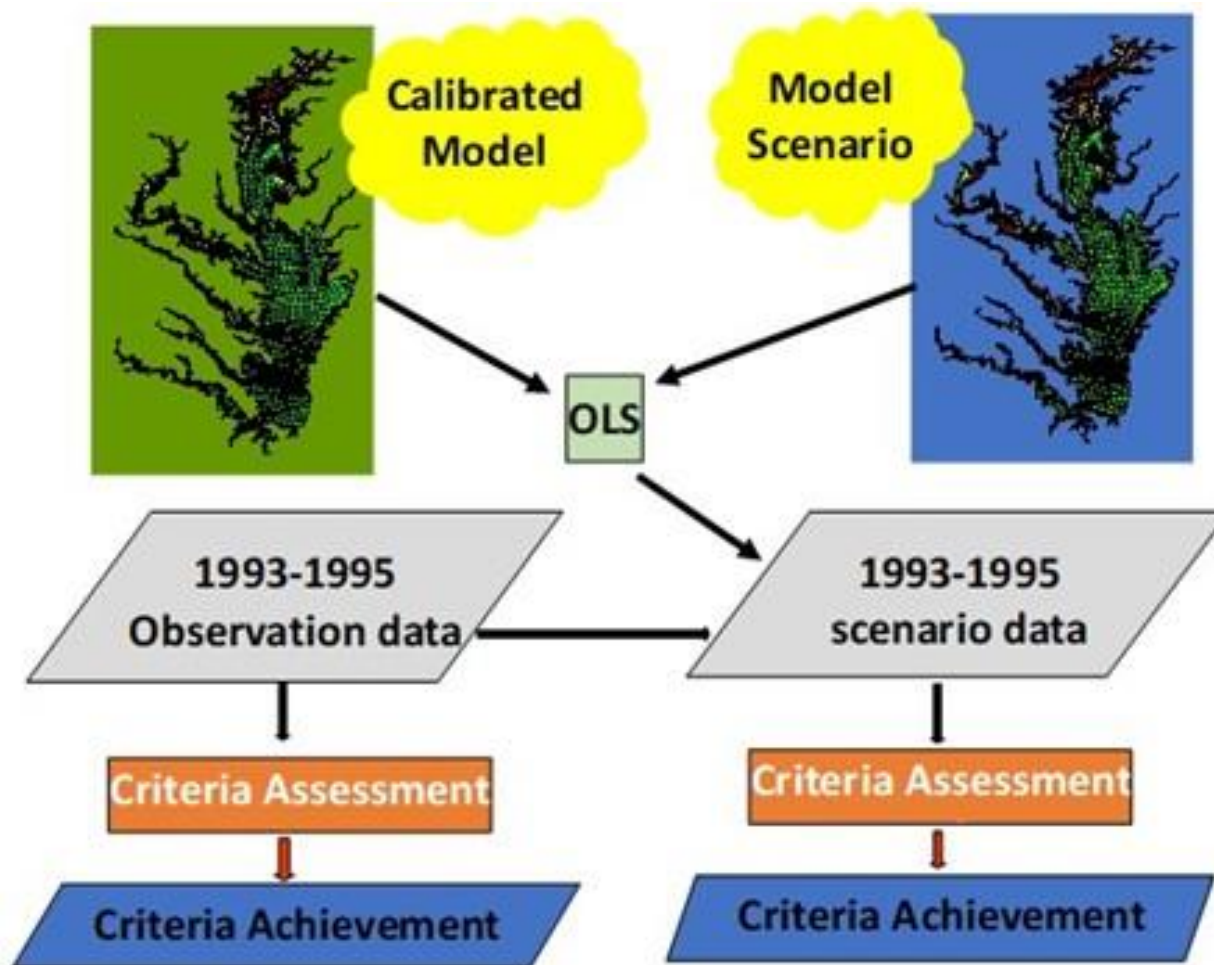


# Climate Change Scenario Assessment in the WQSTM

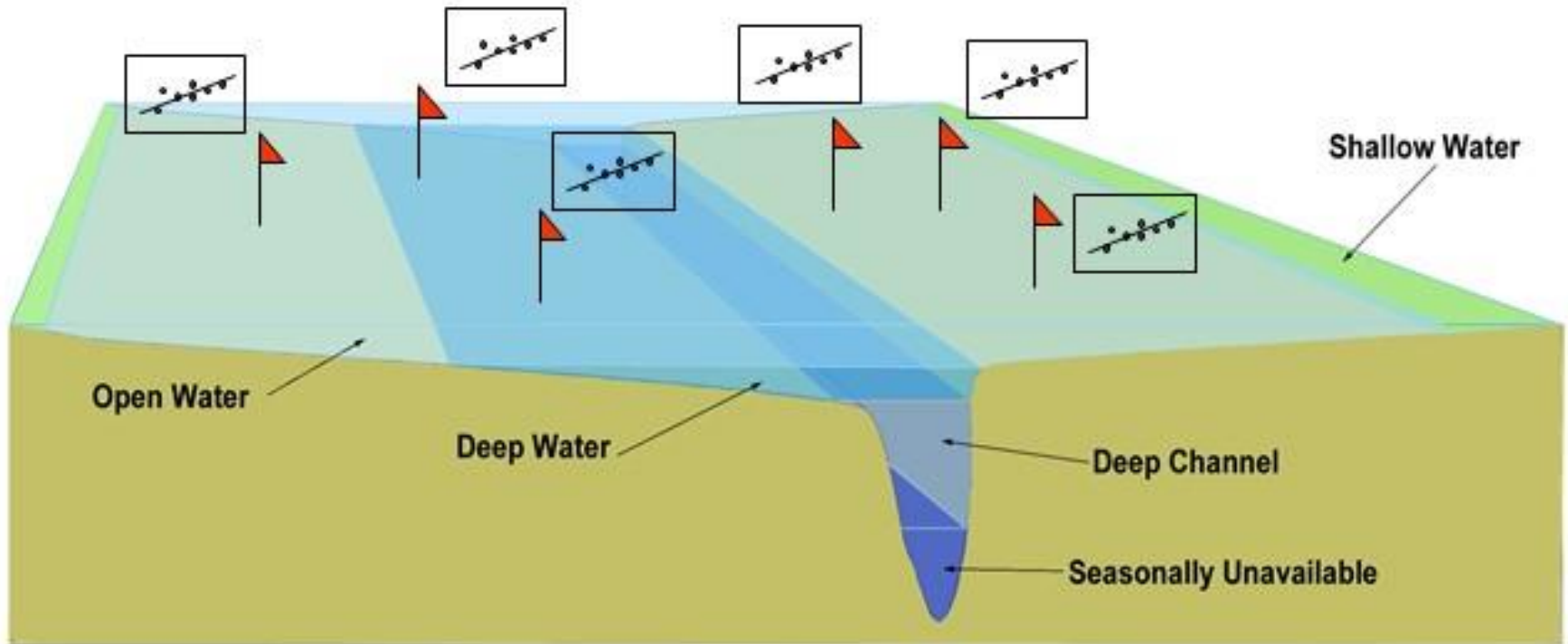
Gary Shenk and Richard Tian – CBPO

Modeling Workgroup 12/5/2019

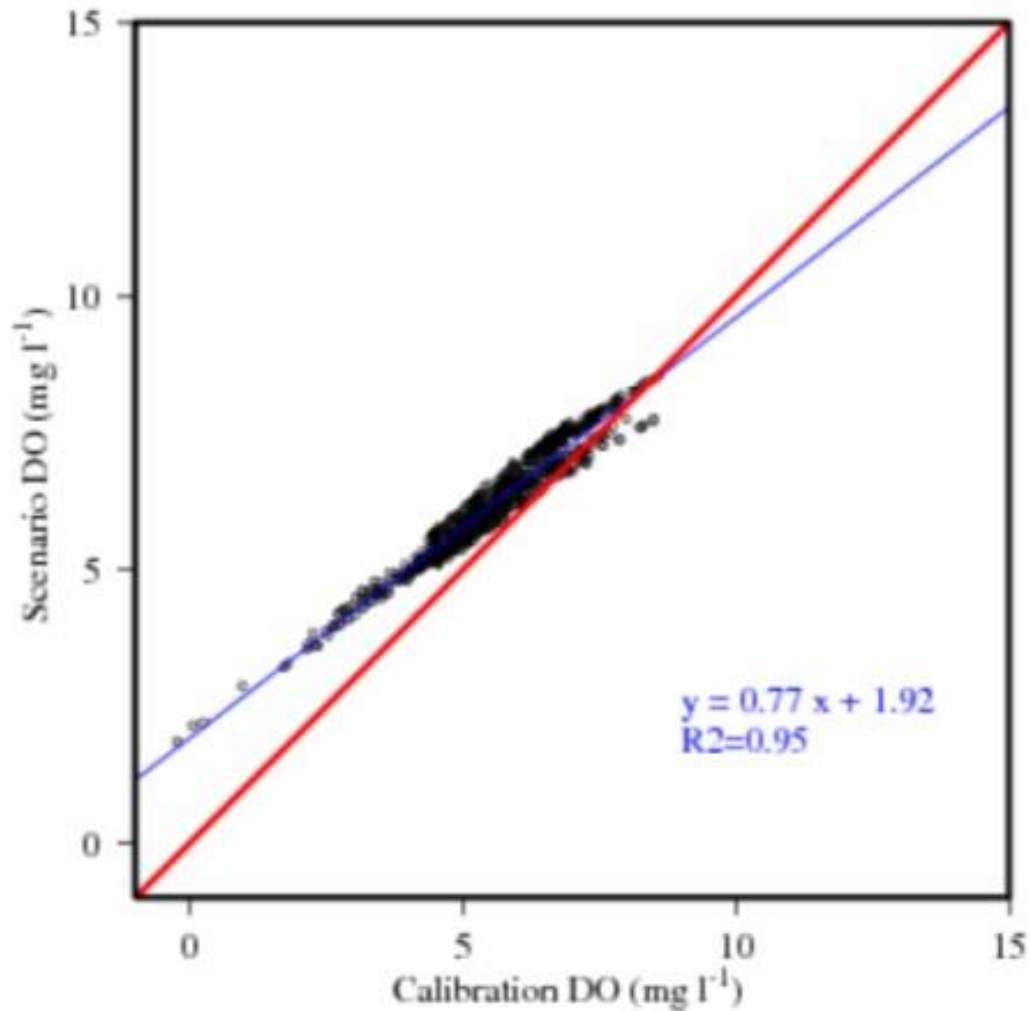
# Modeling relative change



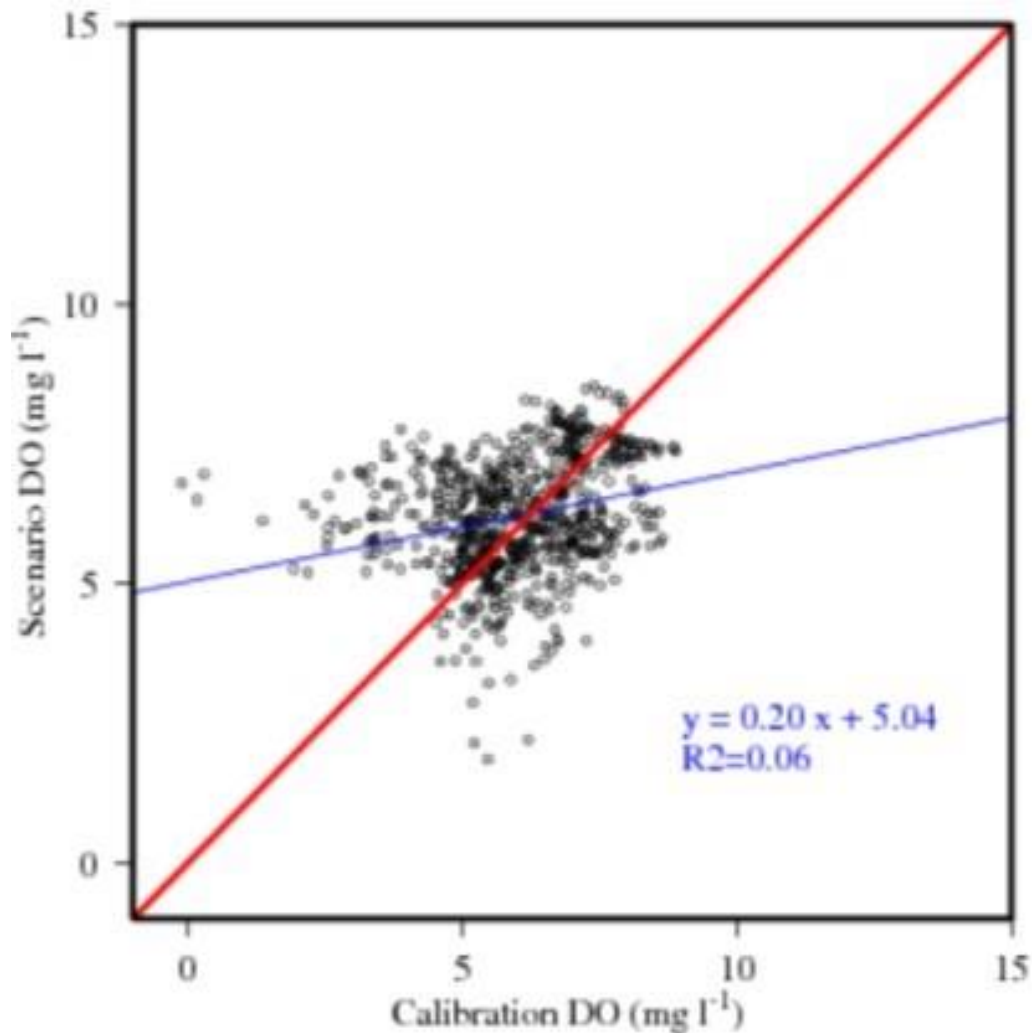
One regression at each location,  
depth, and month



Results are normally robust

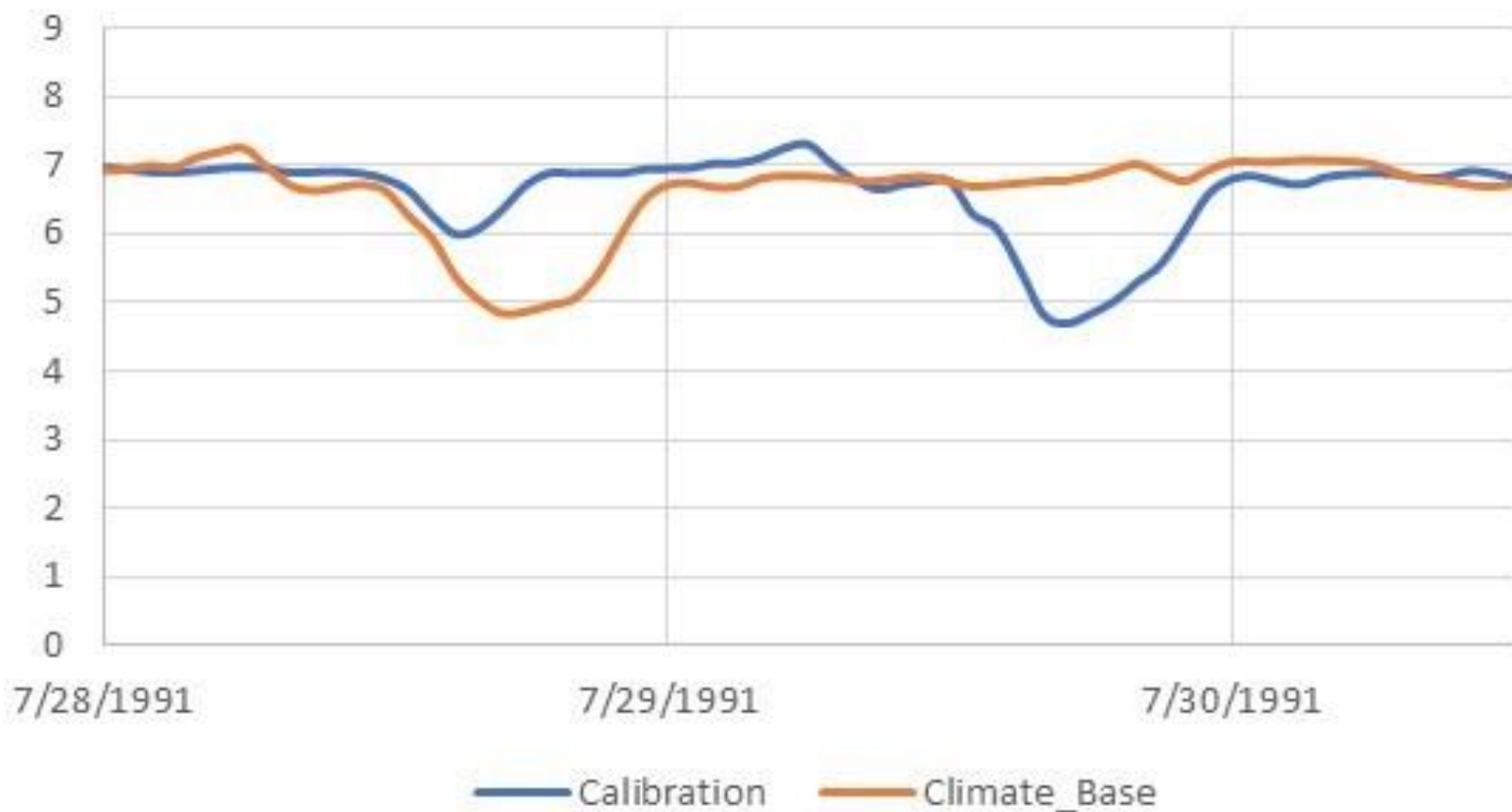


Climate change results are normally not robust

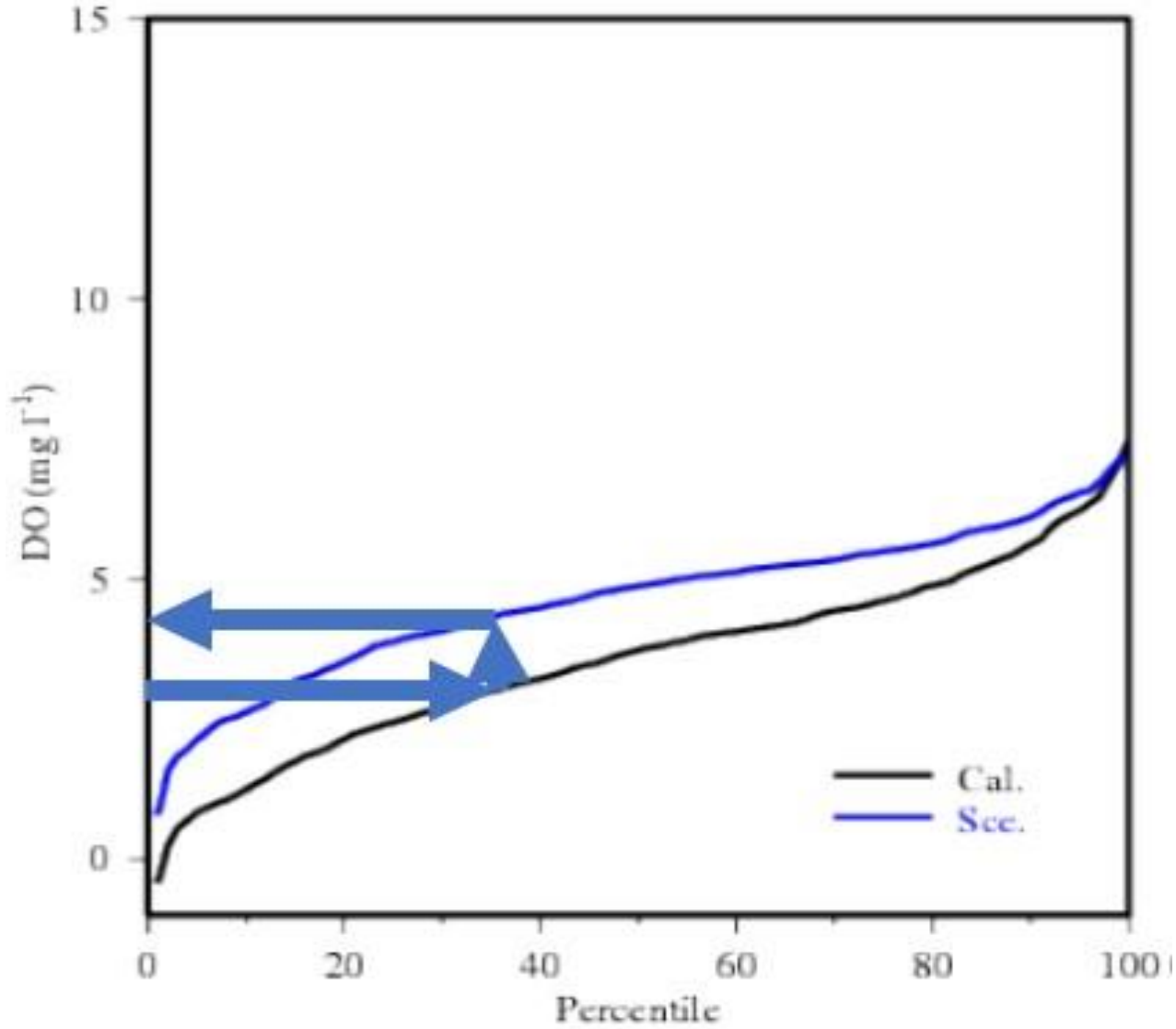


# Temporal offset – new physics

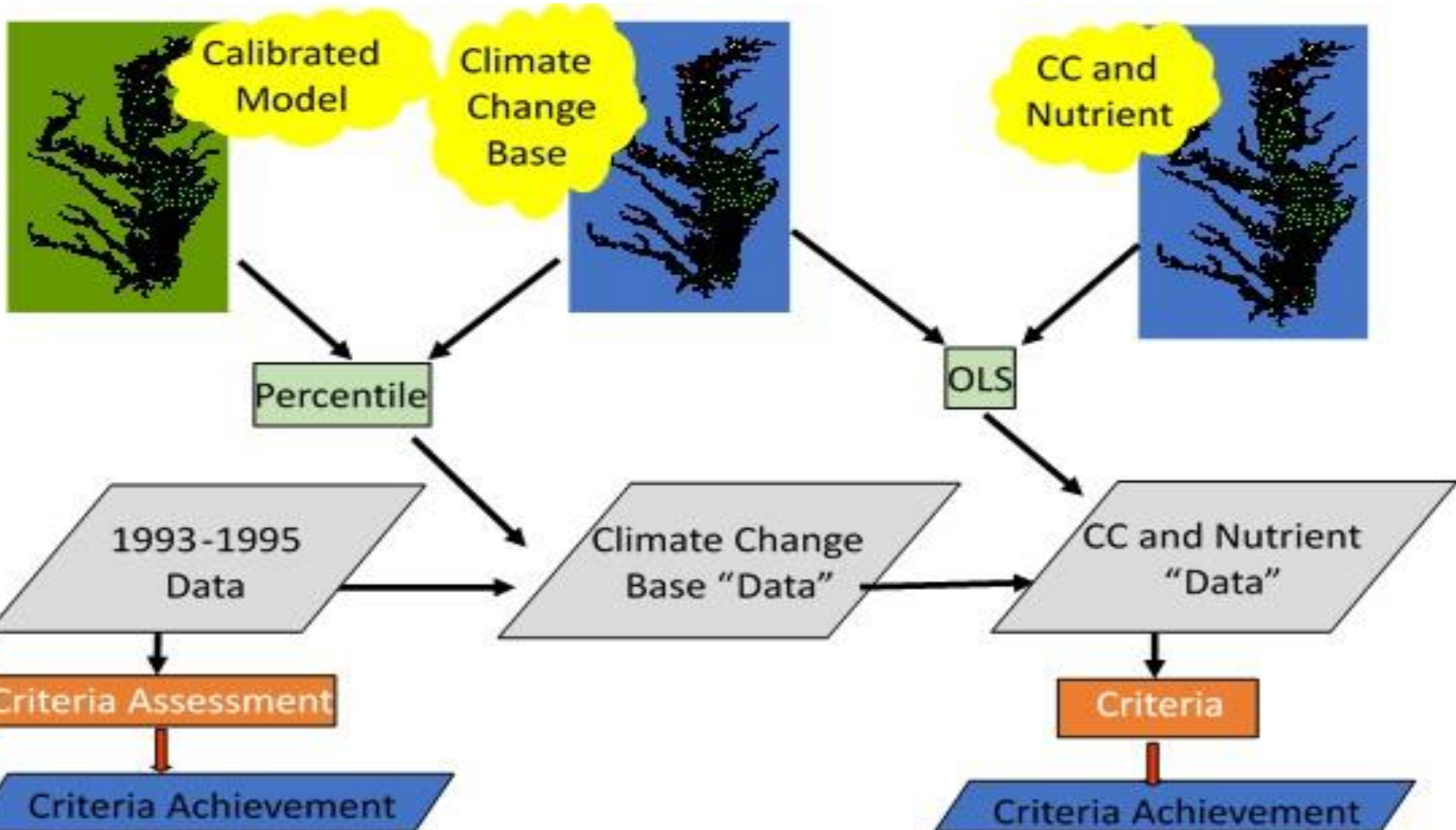
Dissolved oxygen CB4.2C Surface



# Adjustments to observations for climate change based on distribution change



# Modified climate assessment





# Summary

- Still modifying and analyzing the observed data set to what we would have observed under climate and nutrient scenarios
- Nutrient reduction scenarios are precisely the same method that has been used since the early 2000s
- There is a first step that accounts for changes in flows and temperature associated with climate change
- Previously approved by the MWG