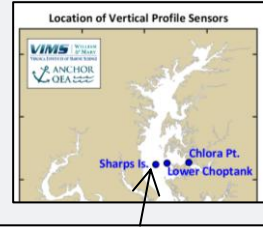
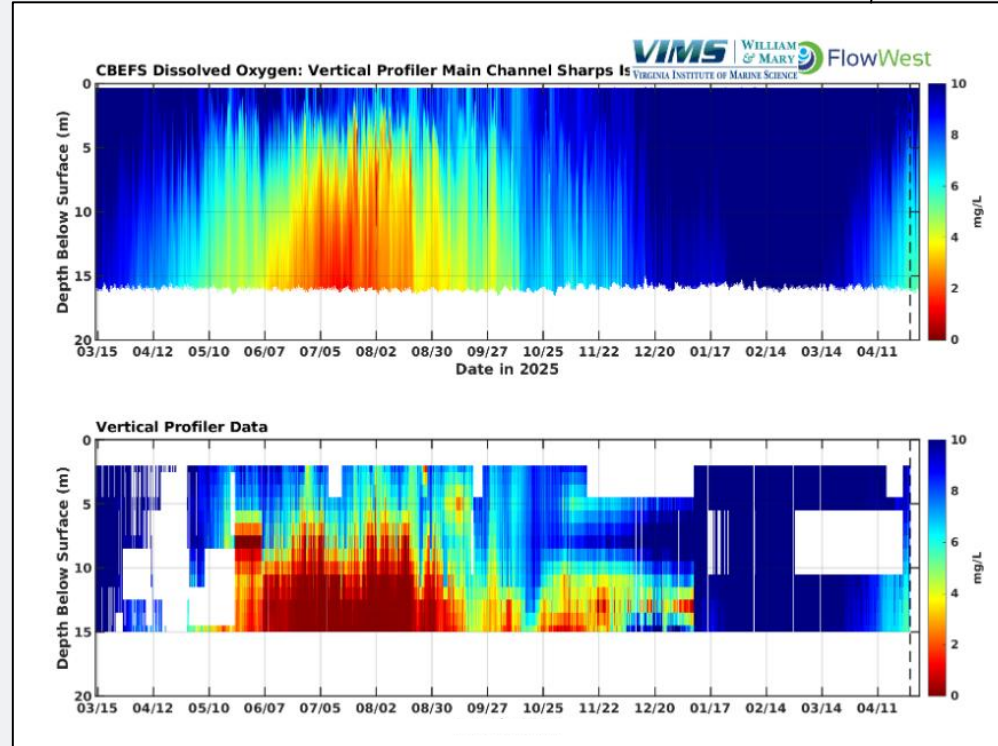


# Vertical Profiler Use in CBEFS

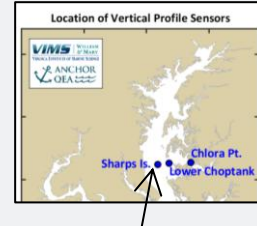
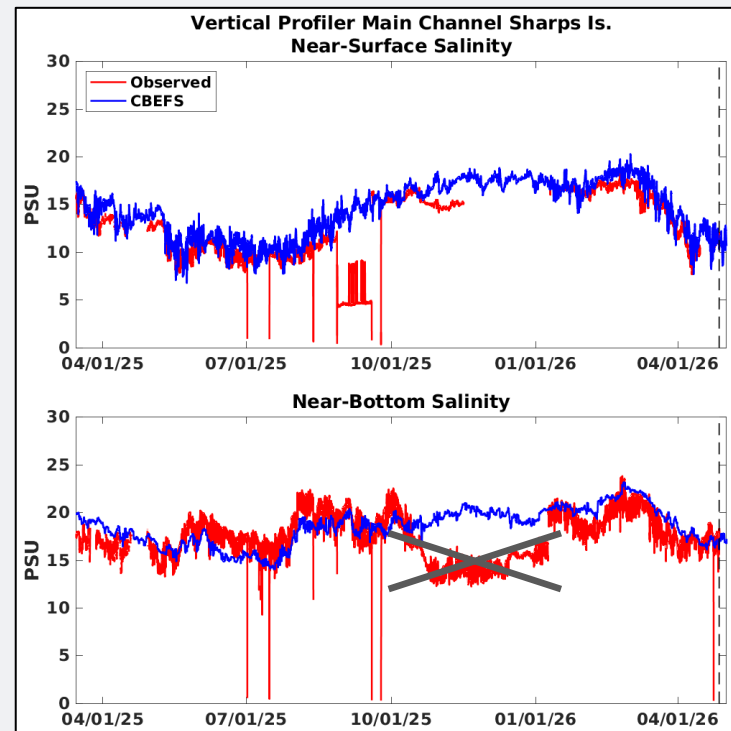
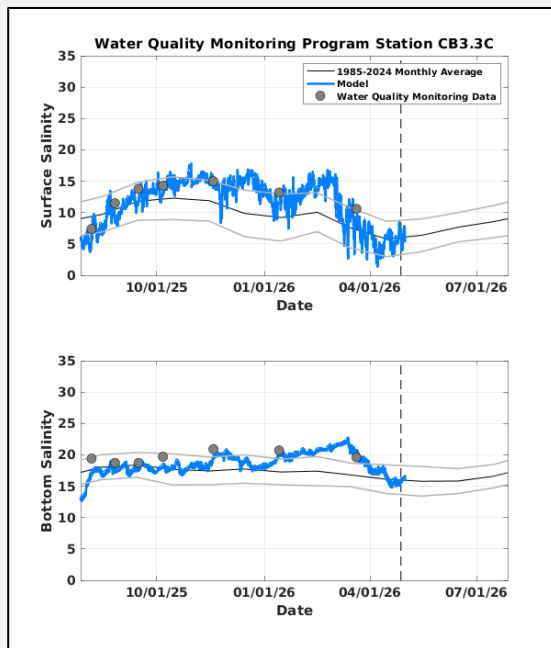


- Confirm model performing as expected
  - Input problems
  - Bias/drift in forecasts
  - Vertical structure of water and surface/bottom
- Confirm marine heatwave forecasts
- High-frequency variability



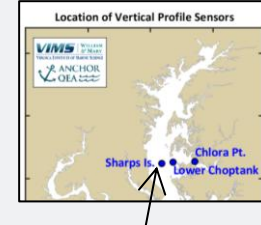
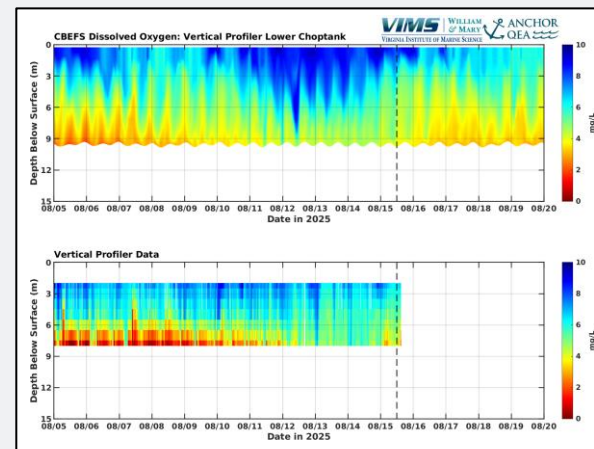
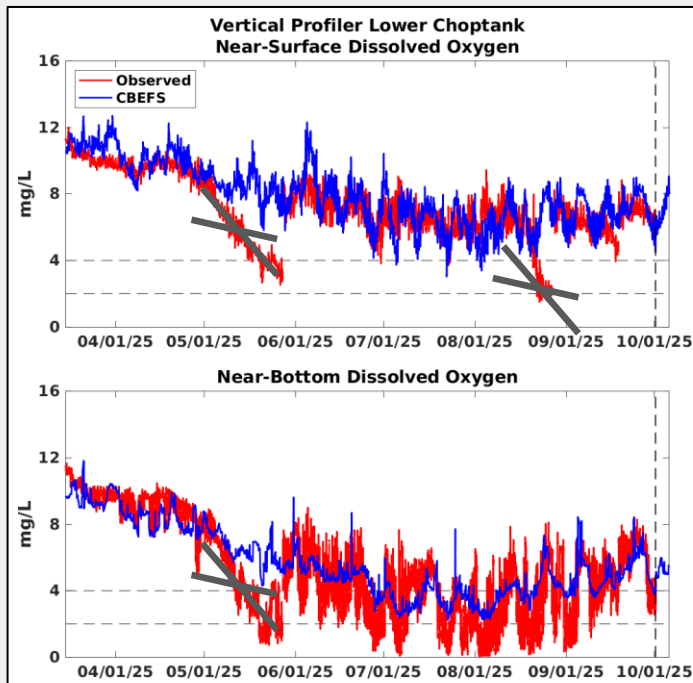
# CBEFS Accuracy as Expected

- Weekly to monthly variability
- Relationship between surface and bottom values



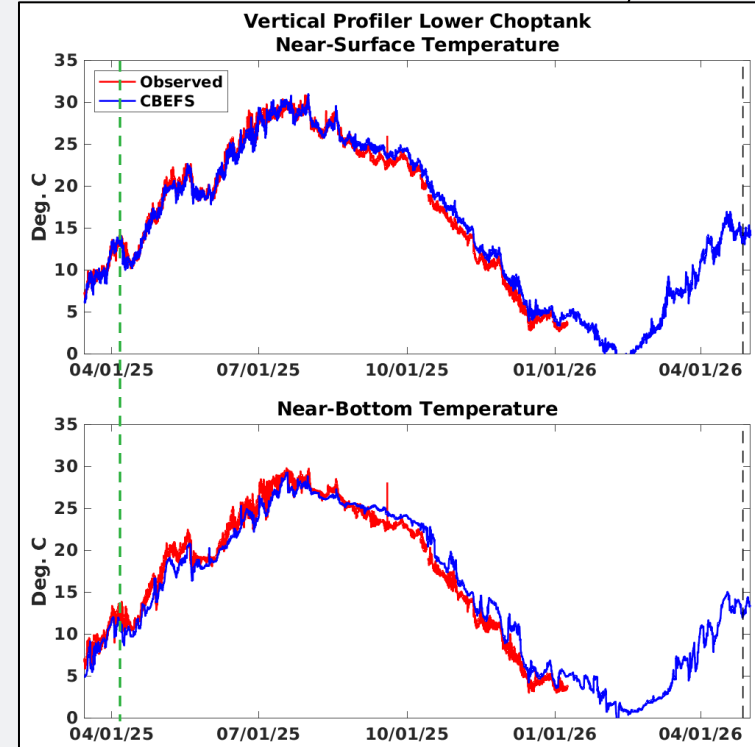
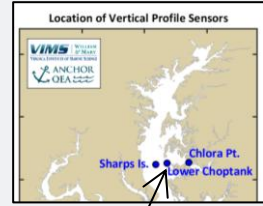
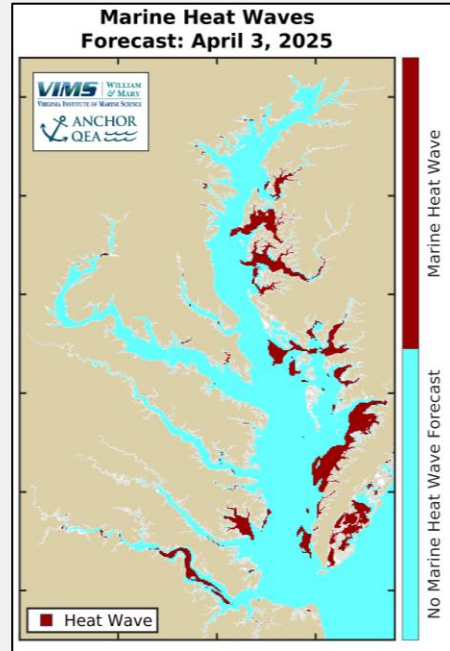
# CBEFS Accuracy as Expected

- Weekly to monthly variability
- Relationship between surface and bottom values
- CBEFS bottom oxygen follows highly variable data



# Marine Heatwave Forecasting

- Marine heatwaves forecast as soon as we started them
- Confirmed likely marine heatwave



# High-Frequency Variability

## Lower Potomac

