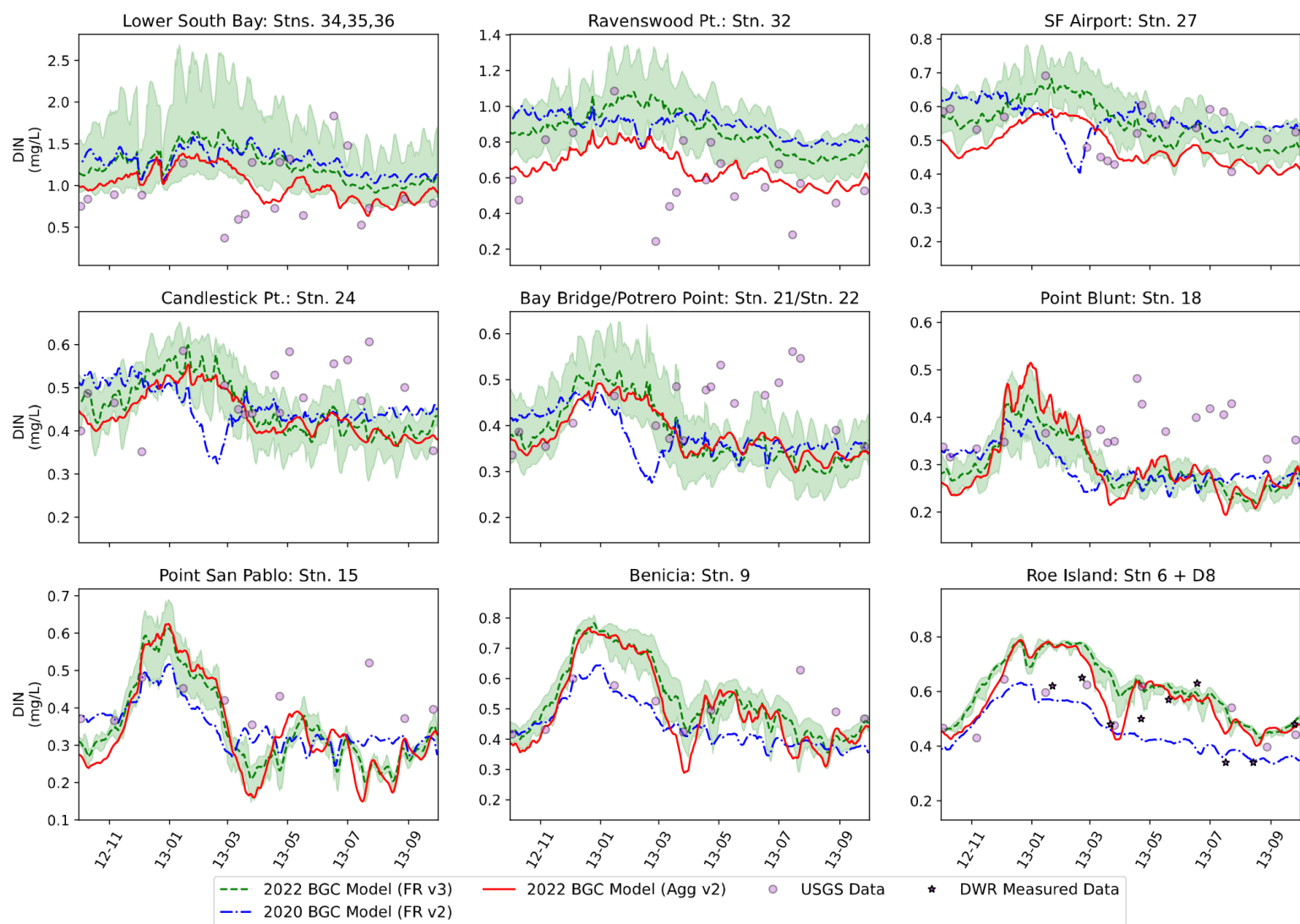
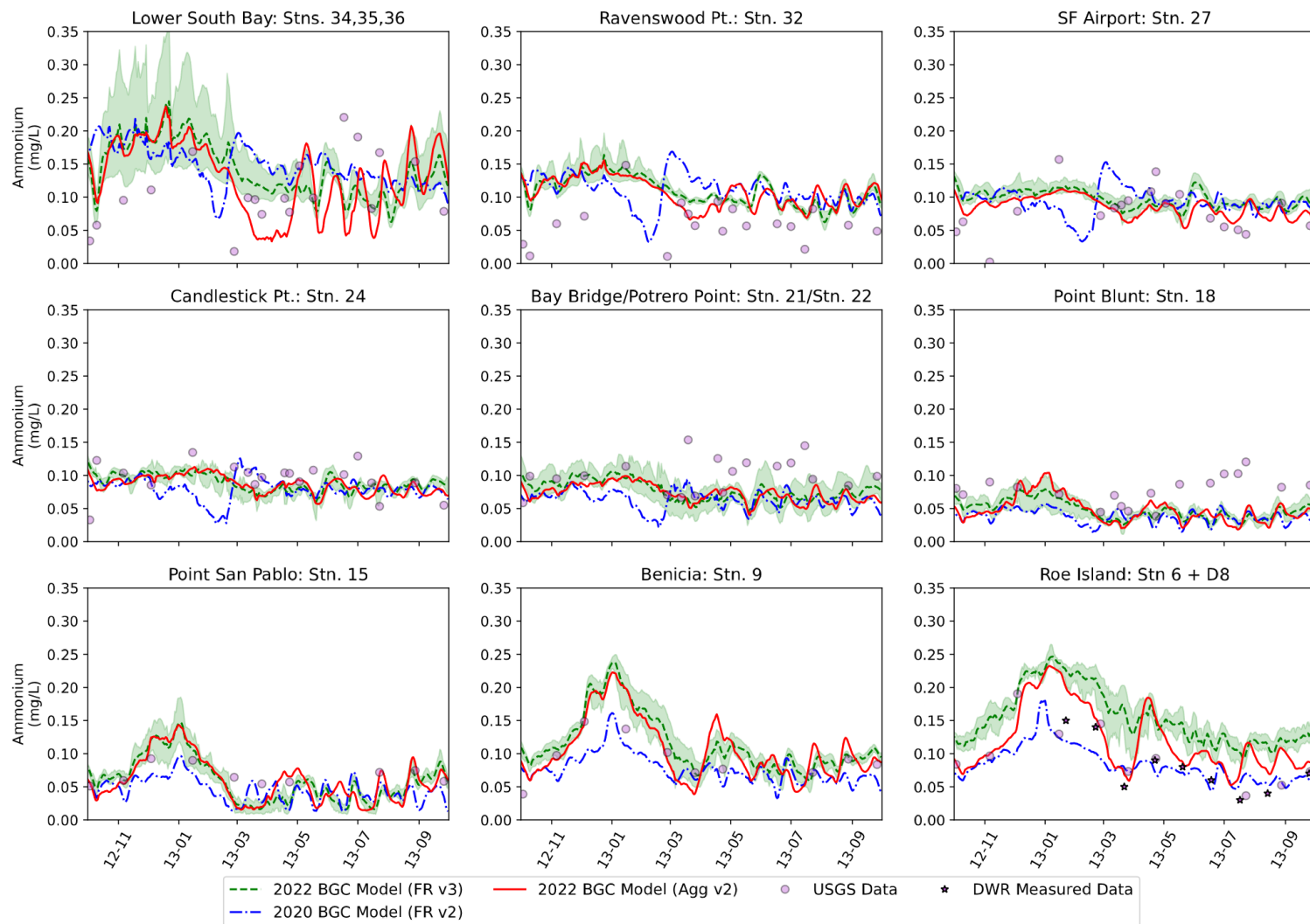


Appendix E: Updated Full Resolution Results for Biogeochemical Model Validation Water Year 2013



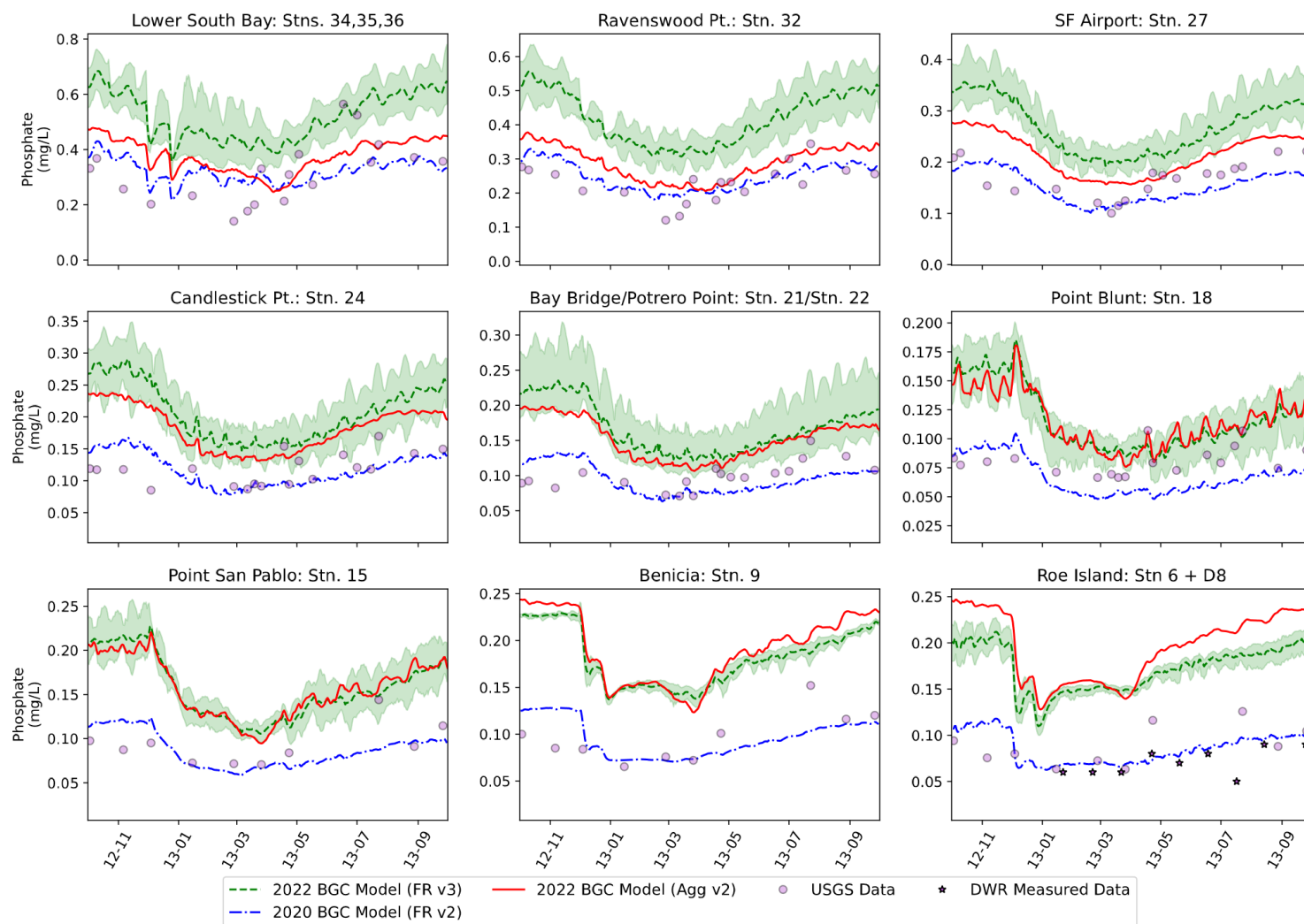
Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.1. Predicted and observed DIN concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



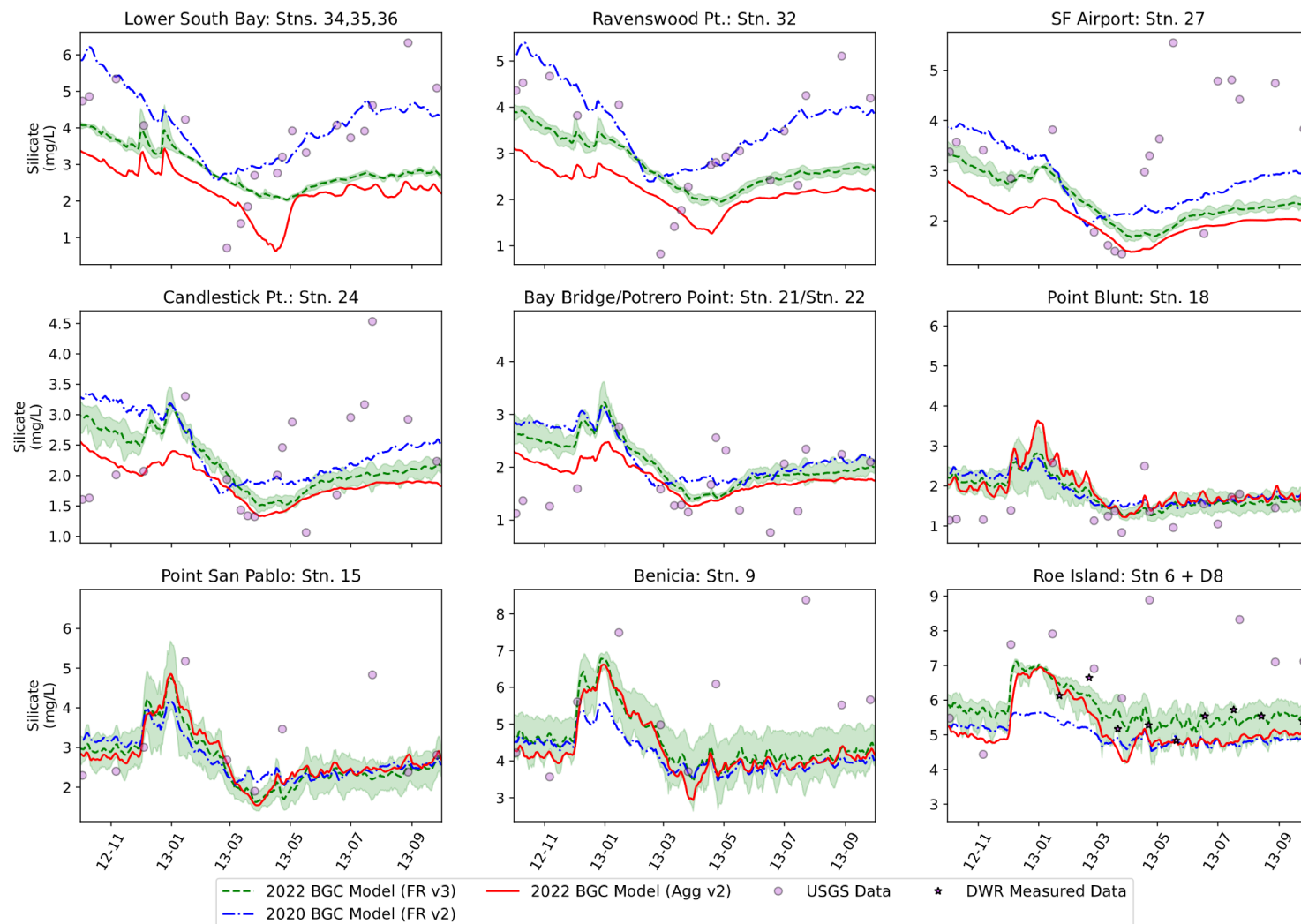
Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.2. Predicted and observed ammonium concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



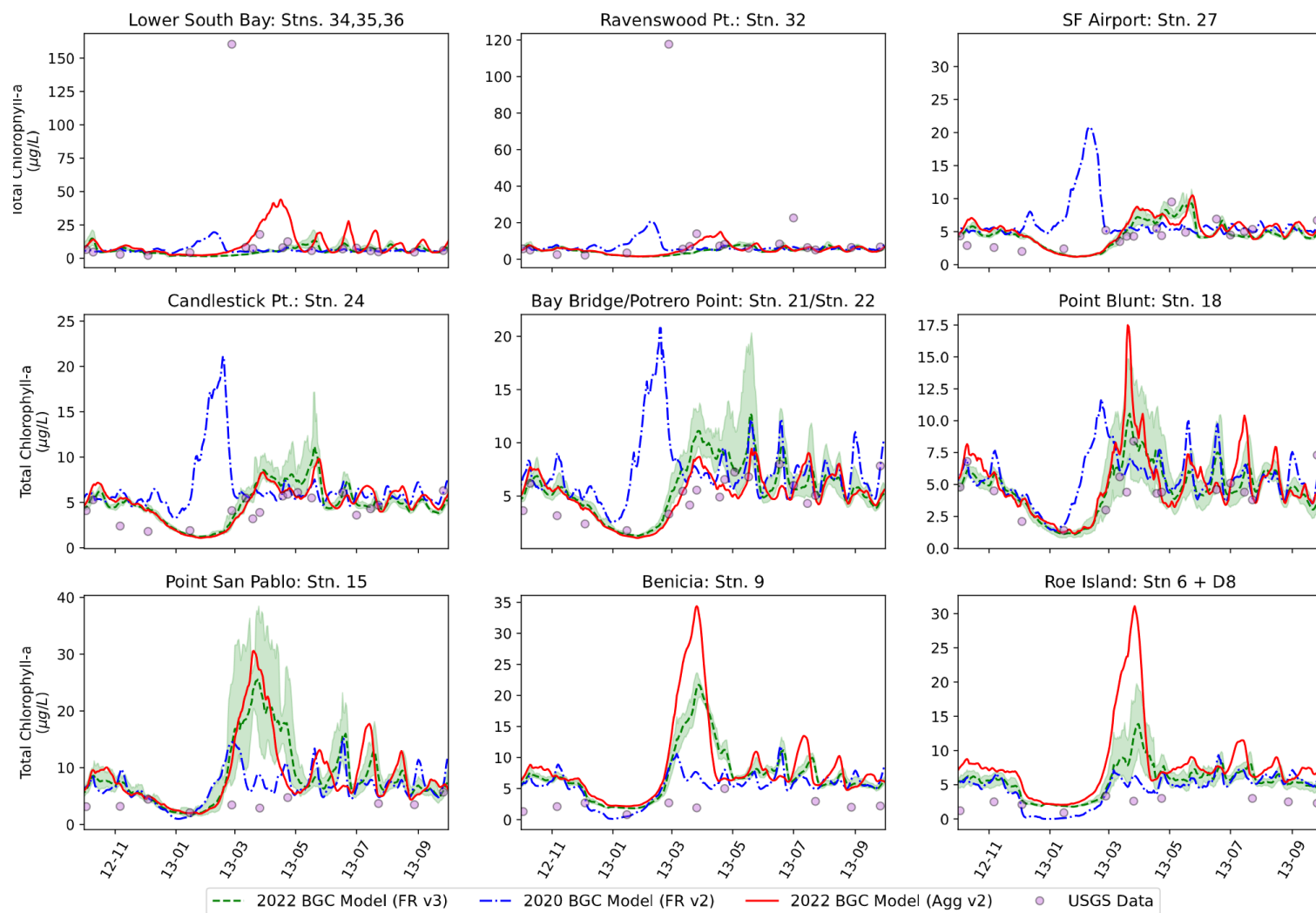
Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.3. Predicted and observed dissolved orthophosphate concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



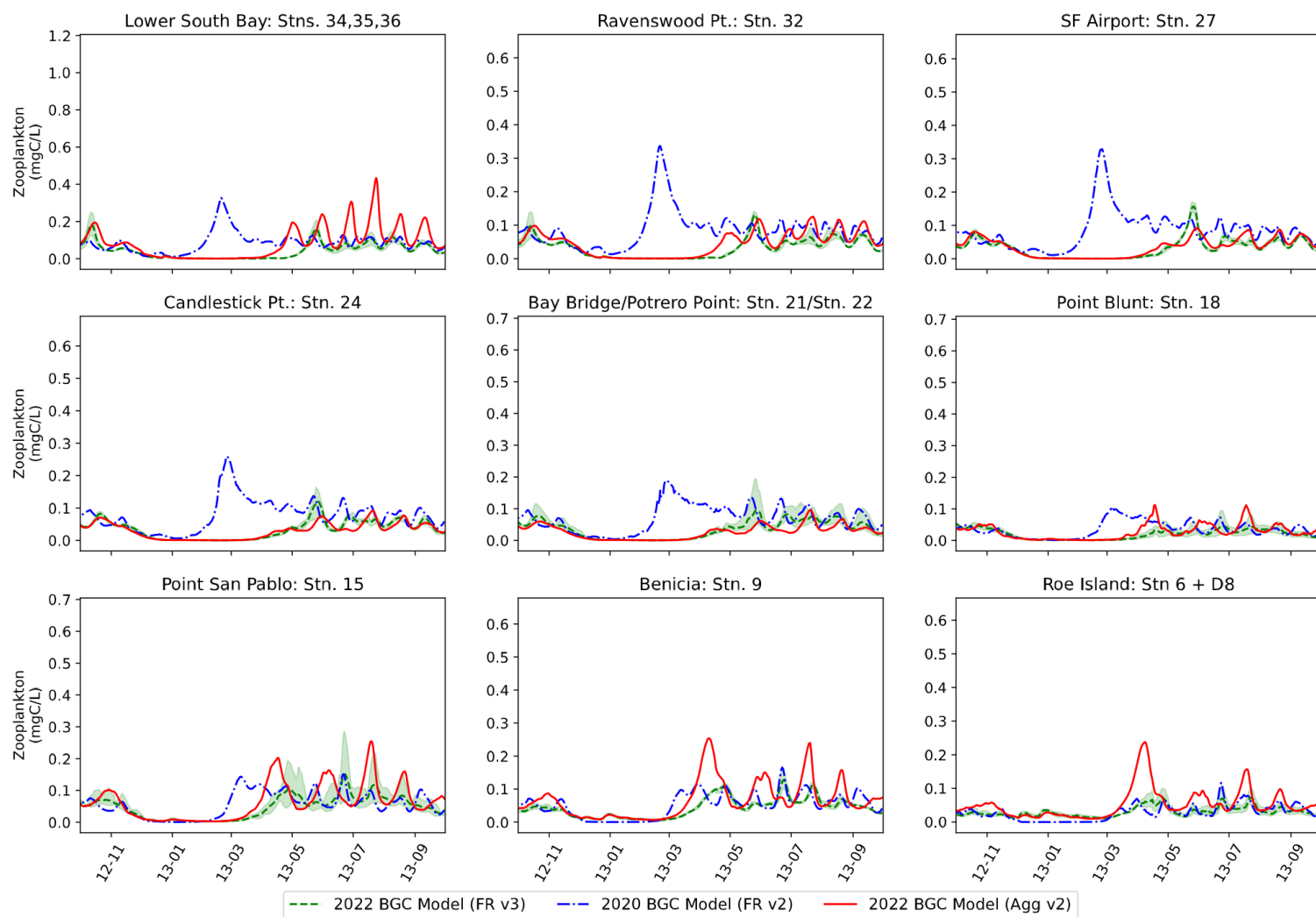
Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.4. Predicted and observed dissolved silicate (as silicon) concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



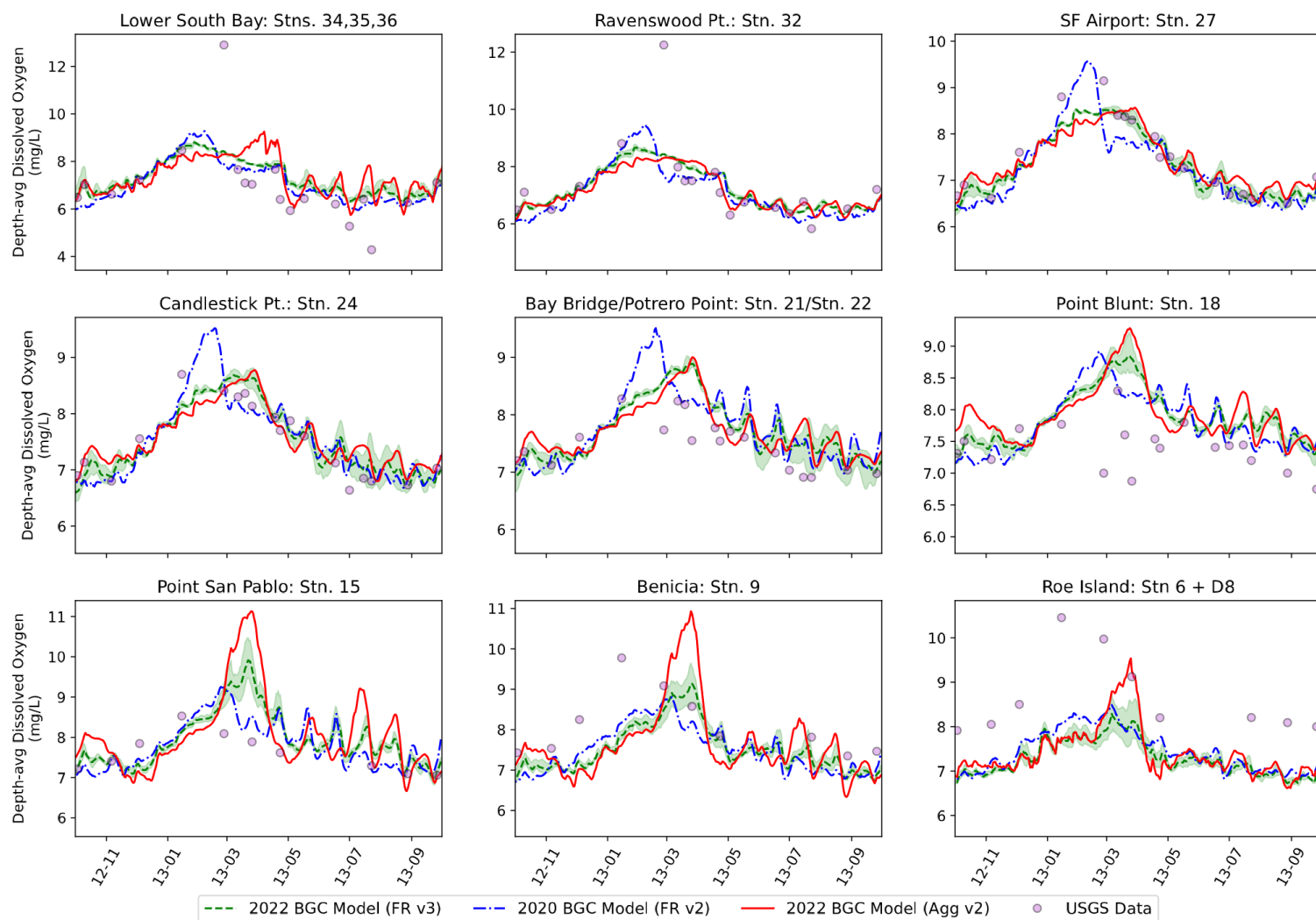
Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.5. Predicted and observed chlorophyll-a concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



Note: The shaded area for the full resolution model simulation shows the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.6. Predicted and observed zooplankton concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation



Note: The shaded area for the full resolution model simulations show the diurnal range, and the corresponding line shows the daily average. The aggregated grid model uses diurnally averaged tides from the full resolution hydrodynamic model.

Figure E.7. Predicted and observed depth-averaged dissolved oxygen concentrations at select USGS stations along the channel for the full-resolution WY2013 simulation