Appendix A - Abiotic Habitat

| rigure 12 of the main document between June and October of 2020 Blue line indicates LOESS prediction of the mean time trend. Red dashed line indicates 6 parts per thousand (ppt). Note that data has not undergone quality control/check. |
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| igure 2 Variation in salinity (psu) across regional strata as measured during 2020 DOP sampling |
| Figure 3 Daily- Average Depth-averaged Salinity when X2 is located at 77km (Delta Modeling Associates 2014), the minimum X2 value between June and October 2020 based on the X2 ralculation with CDEC DTO station data. |
| rigure 4 Fraction of time the Low Salinity Zone (LSZ) is predicted to be in various parts of the greater Suisun Bay region when X2 is located at 77km under steady-state conditions (Delta Modeling Associates 2014) This condition is an approximation of conditions that occurred in early June 2020 |
| rigure 5 Turbidity data taken at the stations listed in Figure 12 of the main document between une and October of 2020. RIV station had no turbidity meter and therefore not included in this igure. Blue line indicates LOESS prediction of the mean time trend. Red dashed line indicates 12 NTU, a turbidity threshold used in the delta smelt biological opinion. Data points above 100 NTU did occur at multiple stations in Summer-Fall 2020, but they were relatively uncommon and were therefore not shown on the plots. Note that data has not undergone quality control/check and that stations may actually record formazin nephelometric units (FNU) instead; however, the general turbidity patterns observed should remain valid |
| igure 7 Temperature data taken at the stations listed in 12 of the main document between Junind October of 2020. Blue line indicates LOESS prediction of the mean time trend. Red dashed the indicates 23.9° C (75° F), a temperature considered stressful for Delta Smelt based on field lata evaluation and physiological experiments. Note that data has not undergone quality control/check |
| igure 8 Variation in water temperature (°C) across regional strata as measured during 2020 OOP sampling. |

Salinity Figures

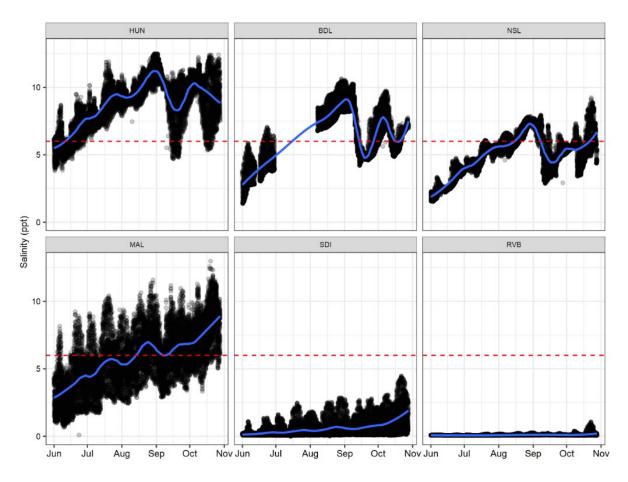


Figure 1 Salinity data converted from conductivity measurements taken at the stations listed in Figure 12 of the main document between June and October of 2020 Blue line indicates LOESS prediction of the mean time trend. Red dashed line indicates 6 parts per thousand (ppt). Note that data has not undergone quality control/check.

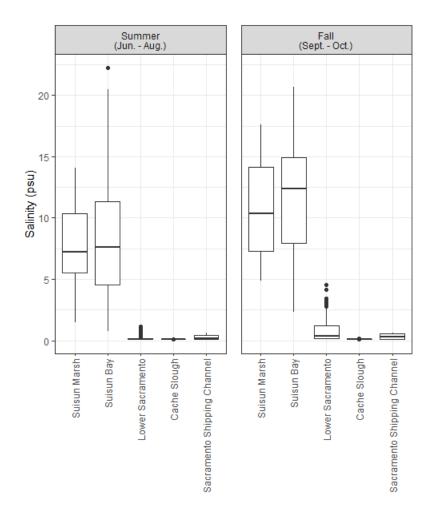


Figure 2 Variation in salinity (psu) across regional strata as measured during 2020 DOP sampling.

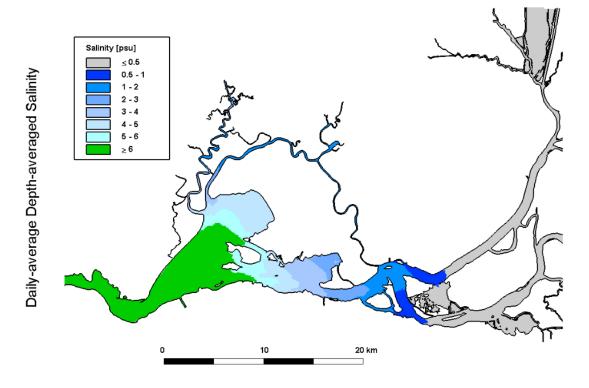


Figure 3 Daily- Average Depth-averaged Salinity when X2 is located at 77km (Delta Modeling Associates 2014), the minimum X2 value between June and October 2020 based on the X2 calculation with CDEC DTO station data.

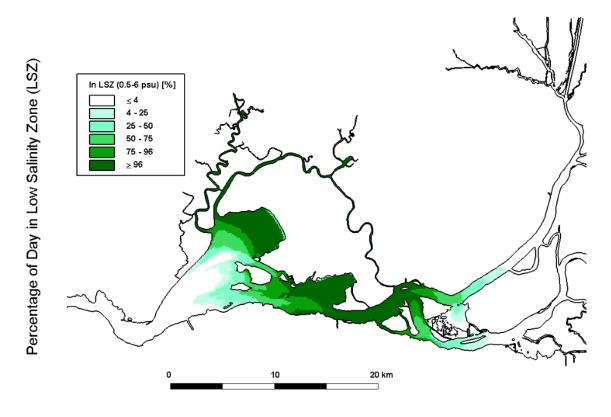


Figure 4 Fraction of time the Low Salinity Zone (LSZ) is predicted to be in various parts of the greater Suisun Bay region when X2 is located at 77km under steady-state conditions (Delta Modeling Associates 2014). This condition is an approximation of conditions that occurred in early June 2020.

Turbidity Figures

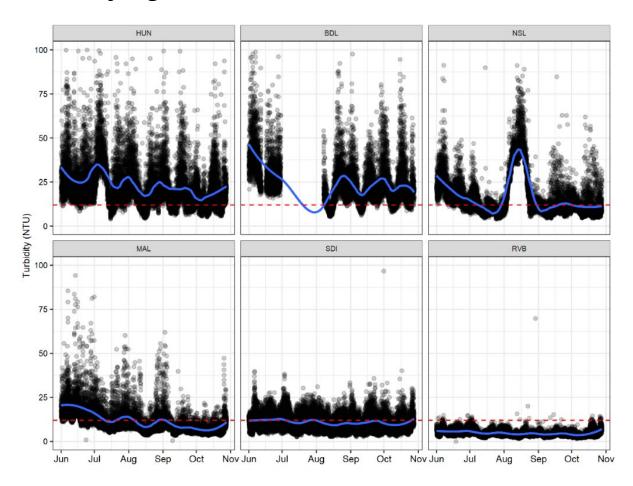


Figure 5 Turbidity data taken at the stations listed in Figure 12 of the main document between June and October of 2020. RIV station had no turbidity meter and therefore not included in this figure. Blue line indicates LOESS prediction of the mean time trend. Red dashed line indicates 12 NTU, a turbidity threshold used in the Delta Smelt biological opinion. Data points above 100 NTU did occur at multiple stations in Summer-Fall 2020, but they were uncommon (1.4% of data points) and therefore not shown on the plots. Note that data has not undergone quality control/check and that stations may actually record formazin nephelometric units (FNU) instead; however, the general turbidity patterns observed should remain valid.

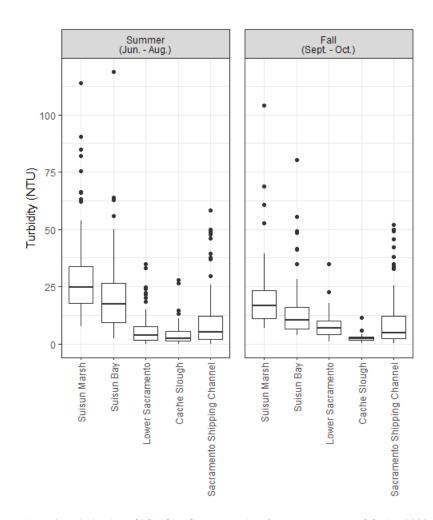


Figure 6 Variation in turbidity (NTU) across regional strata as measured during 2020 DOP sampling.

Temperature Figures

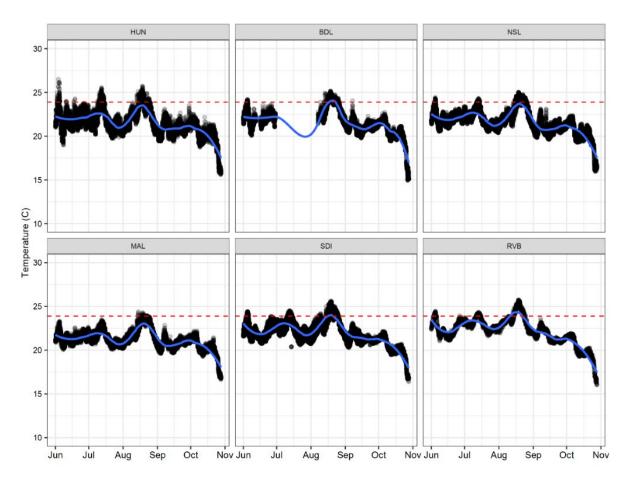


Figure 7 Temperature data taken at the stations listed in Figure 12 of the main document between June and October of 2020. Blue line indicates LOESS prediction of the mean time trend. Red dashed line indicates 23.9° C (75° F), a temperature considered stressful for Delta Smelt based on field data evaluation and physiological experiments. Note that data has not undergone quality control/check.

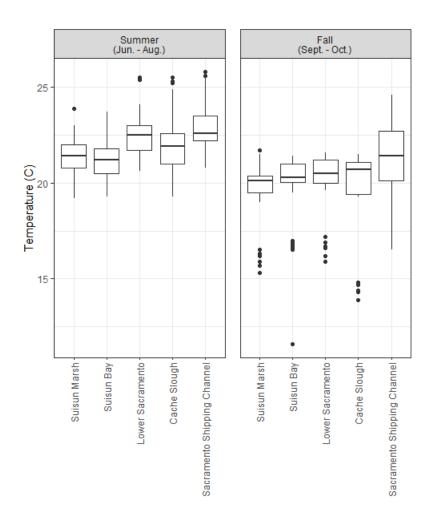


Figure 8 Variation in water temperature (°C) across regional strata as measured during 2020 DOP sampling.