# TEROS NETWORK UPDATE – 02/27/2021

- Visualizing TEROS data from 09/2020 to present

- Documenting sensor-specific data gaps for records and to understand network failure cascade

- Data are shown per logger. Each logger covers one-third of a plot. Location highlighted in yellow

- 5 cm=blue; 15 cm=black; 30 cm=red

- Sensors not recording data as of 02/27/2021 are bold (2 in Control Plot, 5 in Freshwater Plot, 4 in Seawater Plot)

CONTROL PLOT – NORTHWESTERN THIRD (PNNL11)
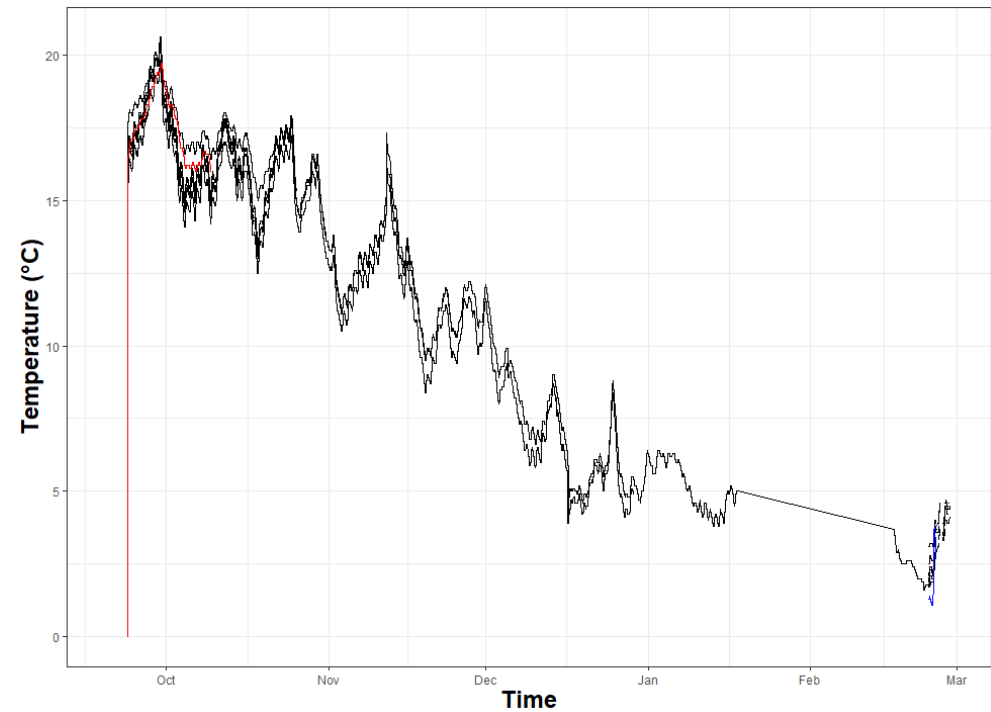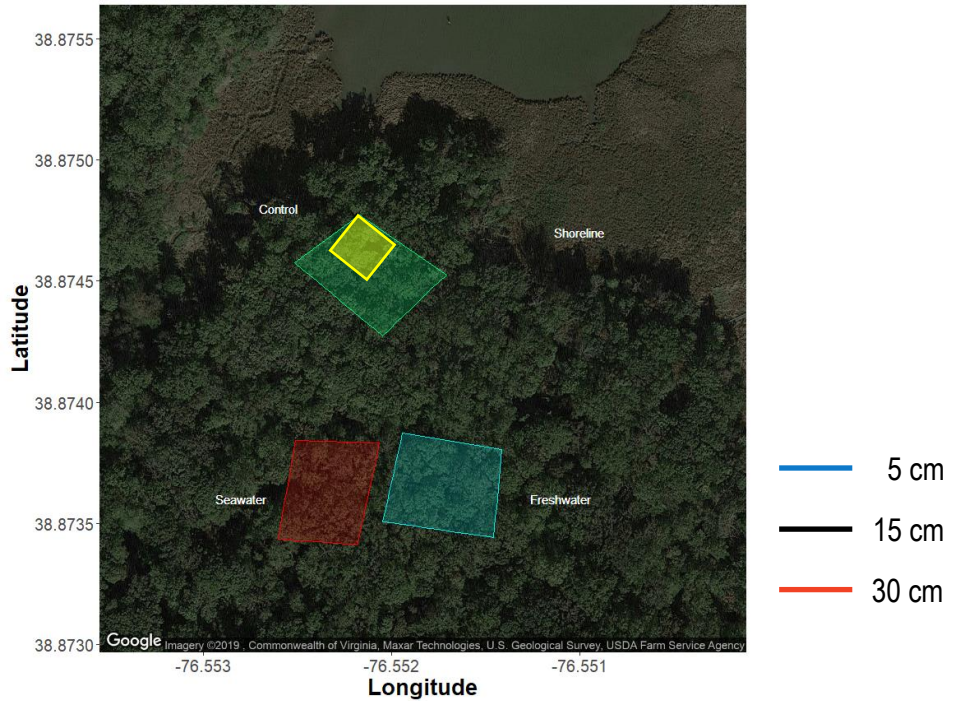
14 sensors:
- #no gaps; T135
- #gap from late October-present; T100
- #gap from October-February; T132
- #gap from late October-February; T160
- #gap from late November-present; T133
- #gap from late December-present;T019
- #no data until February; T056
- #no data until February;T129
- #gap from mid-October-February; T058
- **#no data; T059**
- #no data until February; T060
- #no data until February; 5cm; T138
- #gap from November-present; T055
- **#big jump sensor; 30 cm; gap from late-October-present; T101**
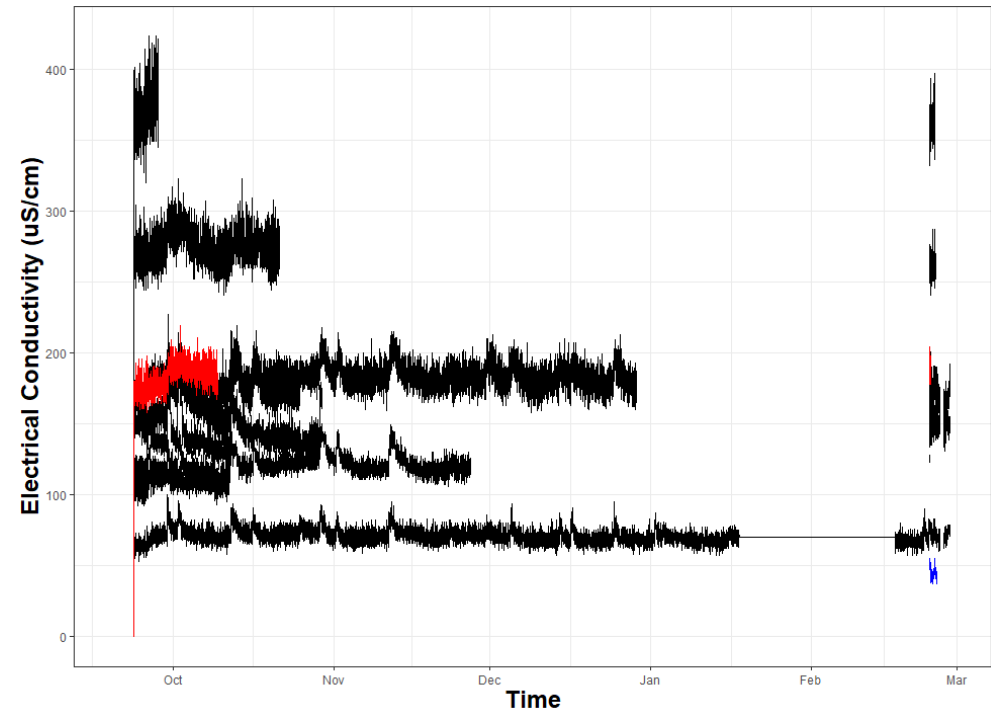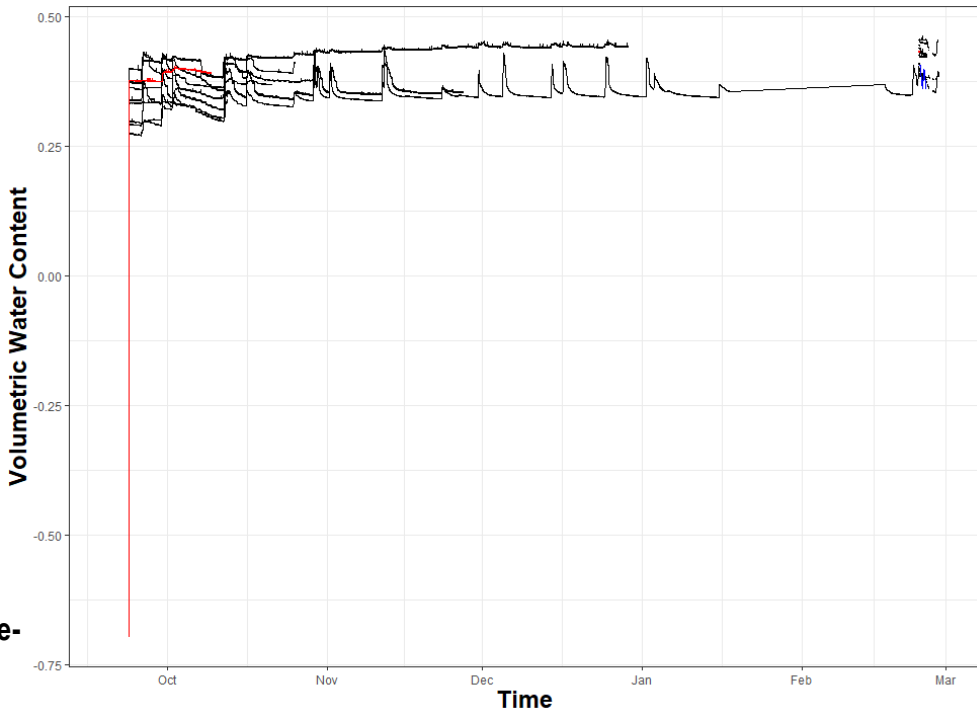
CONTROL PLOT – NORTHEASTERN THIRD (PNNL13)
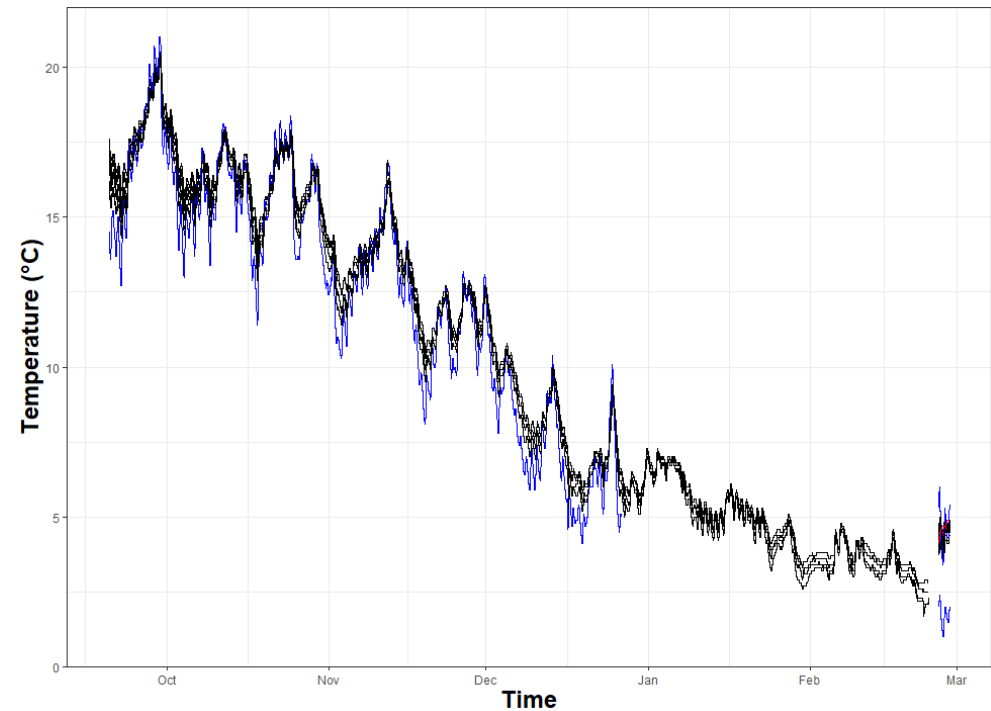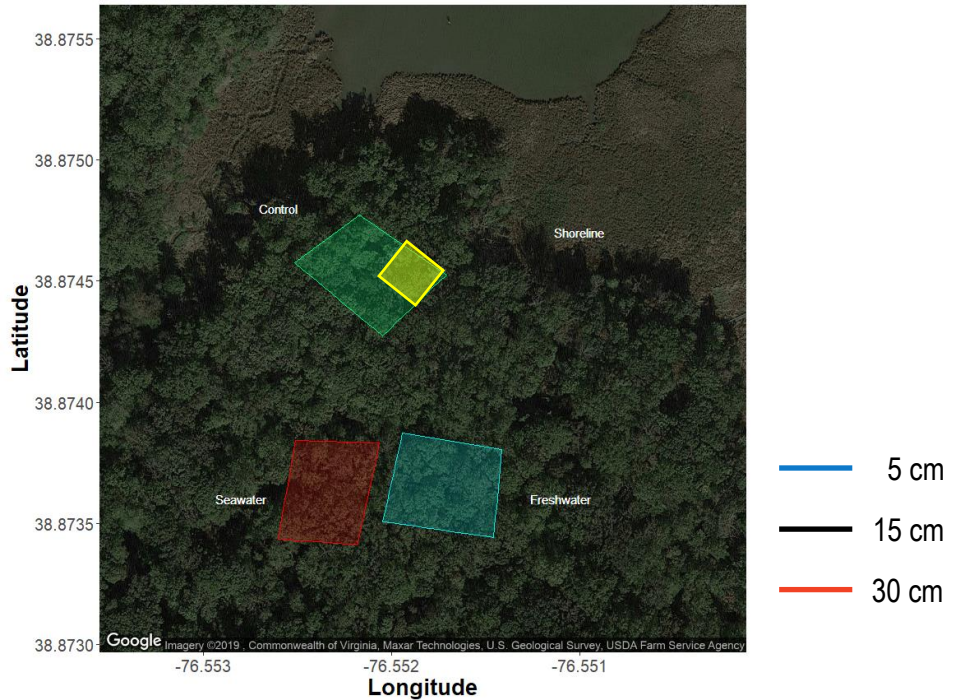
17 sensors:
- #maintenance gap in February; T099
- #no data until February; T113
- #gap from late-October-February; T137
- #gap from late September-February; T109
- #maintenance gap in February; T103
- #gap from late September-February; T104
- #no data until February; T033
- #gap from November-February; T057
- #maintenance gap in February; T035
- #no data until February; T110
- #gap from mid November-February; T111
- #gap from late December-February; T134
- #maintenance gap in February; T107
- #no data until February; T117
- #no data until February; T095
- #no data until February; T039
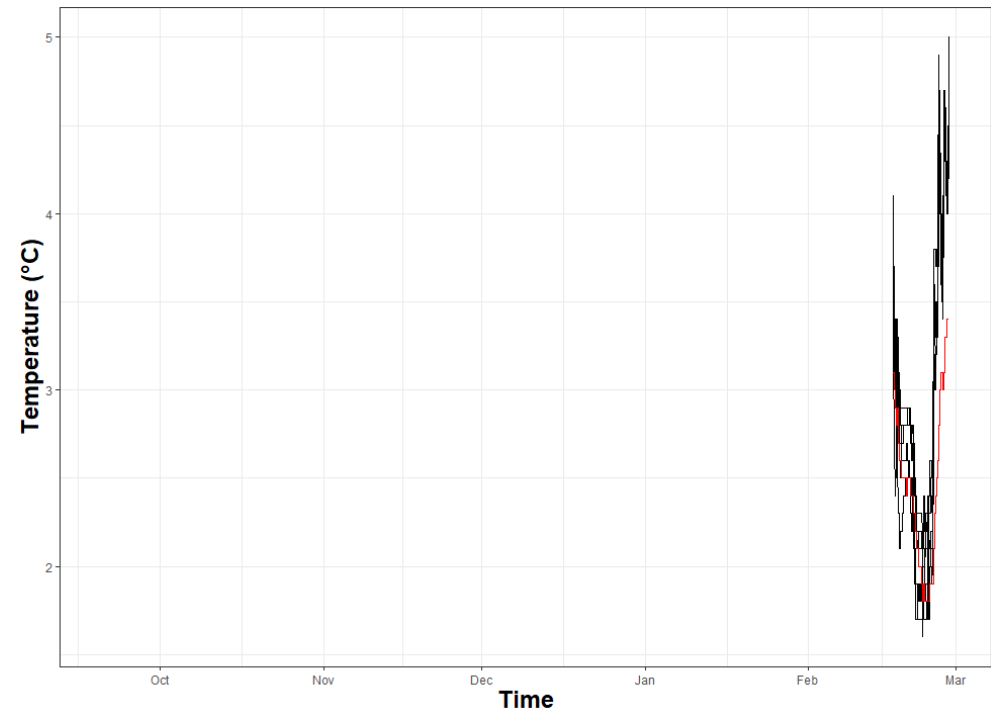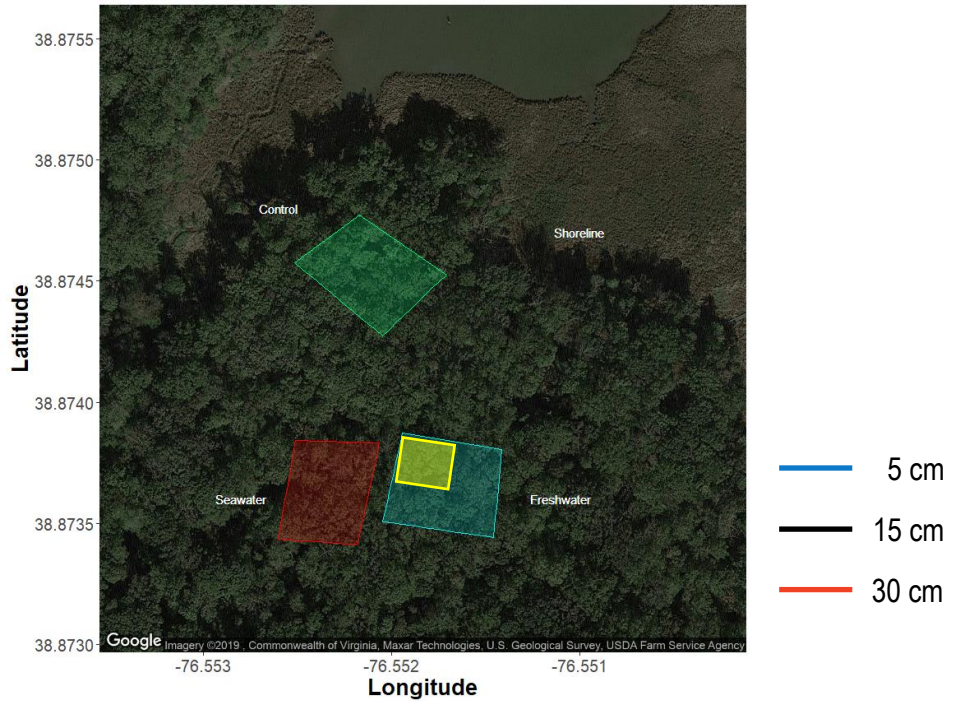- #no data until February; T130
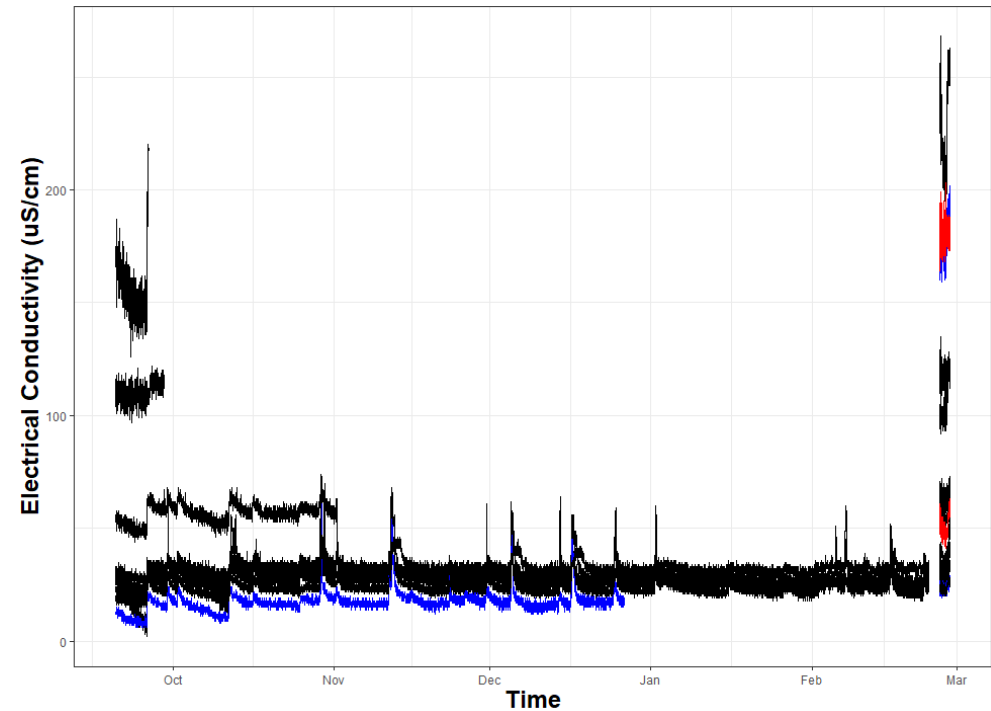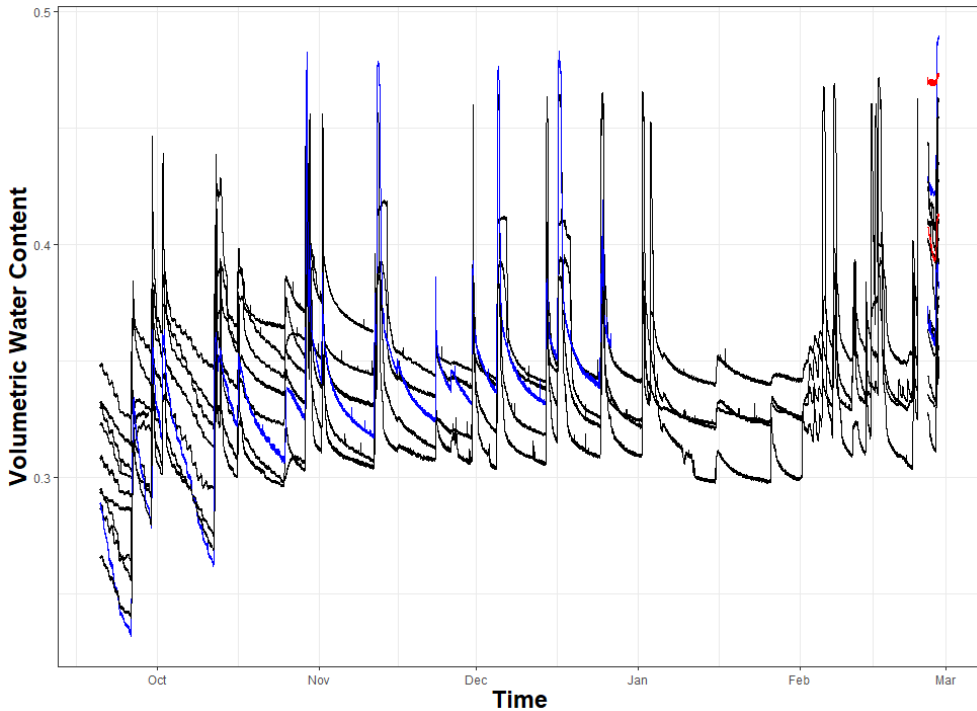
CONTROL PLOT – SOUTHERN THIRD (PNNL12)

15 sensors:
- #on in February; T112
- #data for all chunks; on in February; T136
- #on in February; T114
- #on in February; T115
- #on in February; T116
- #data for all chunks; on in February; T036
- #on in February; T037
- #on in February; T074
- #on in February; T062
- #data for all chunks; on in February; T108
- #data for all chunks; on in February; T097
- #data for all chunks; on in February; T079
- #on in February; T131
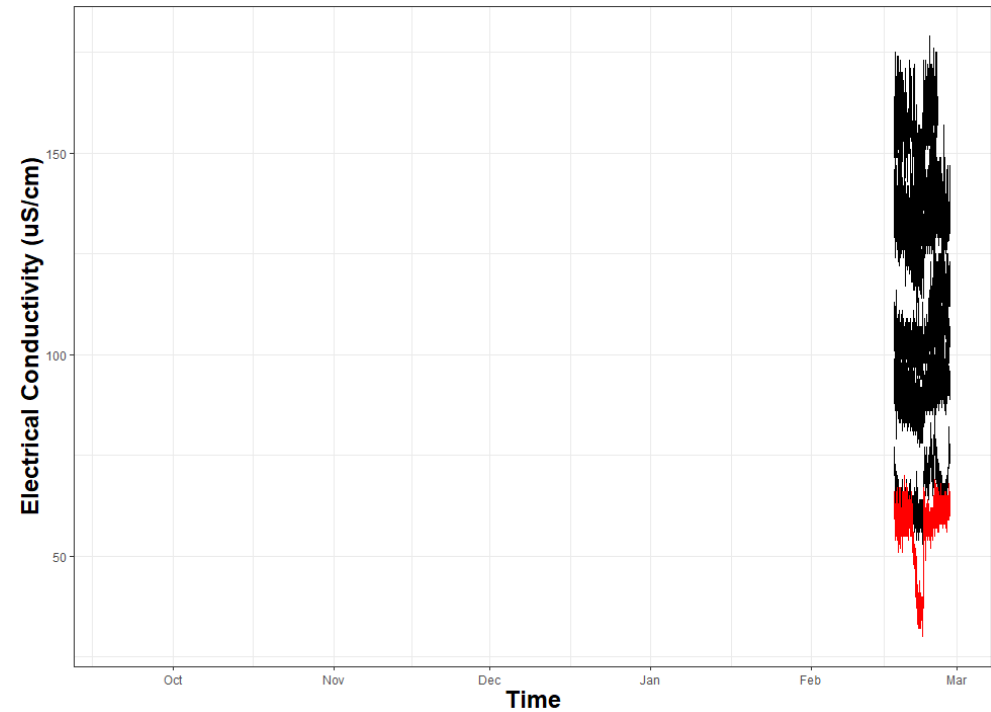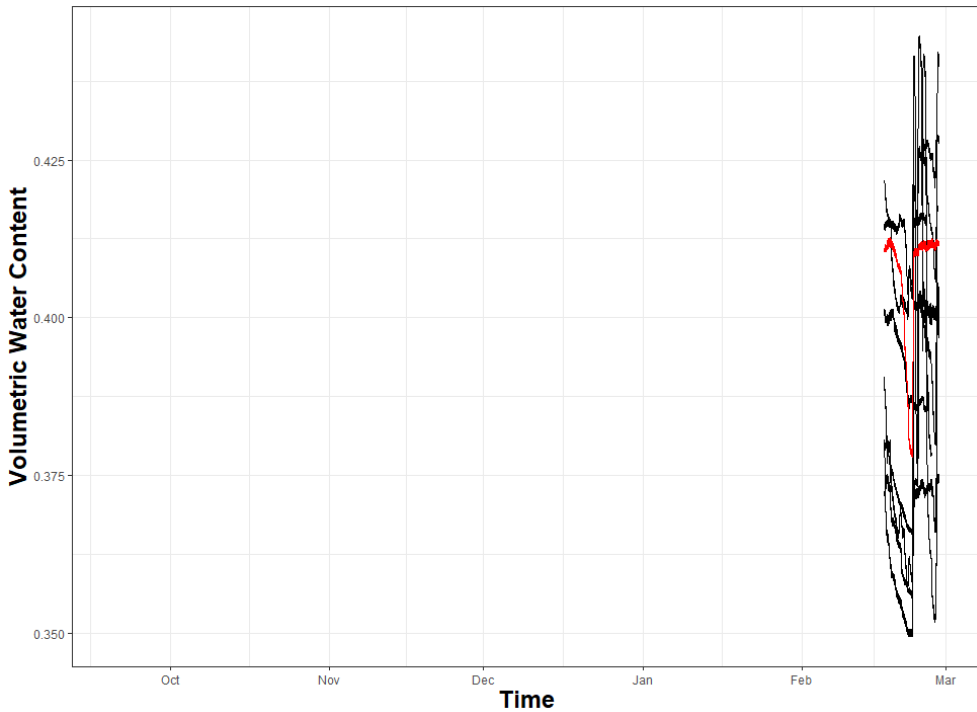- #on in February; T034
- #on in February; T127
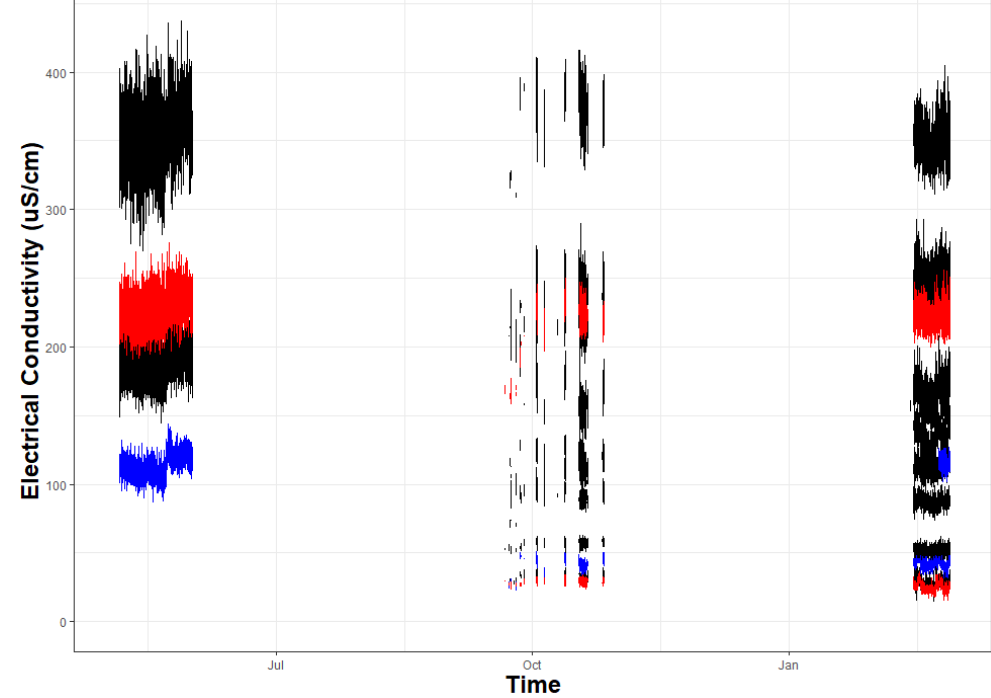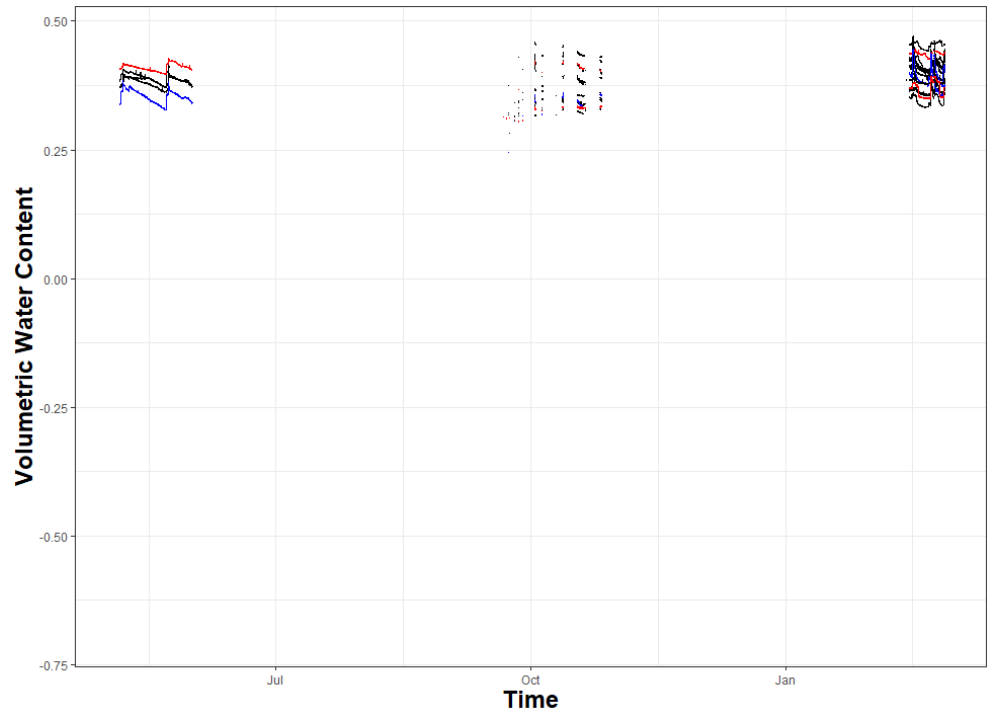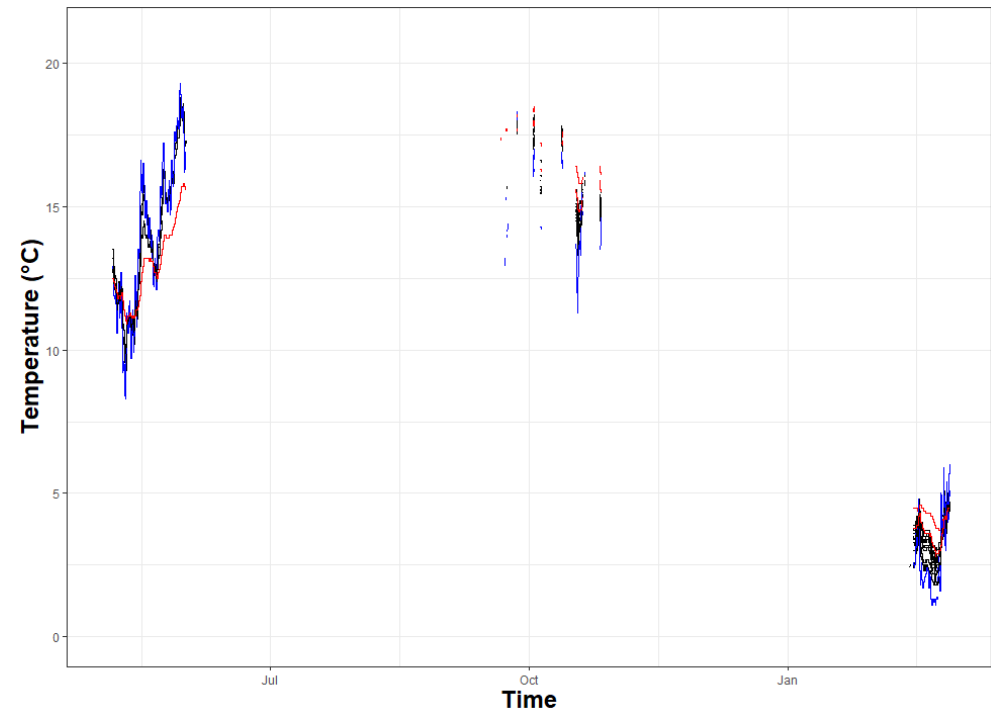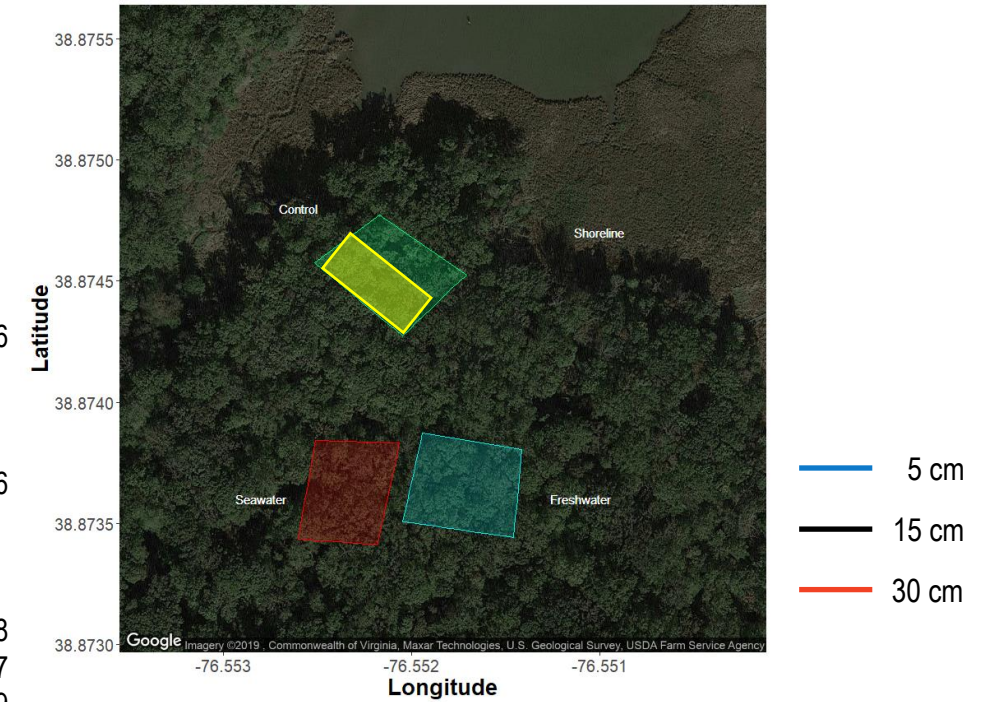
Why is there data for June? All data files pulled and processed in same way. Could not find summer dates in data frame.
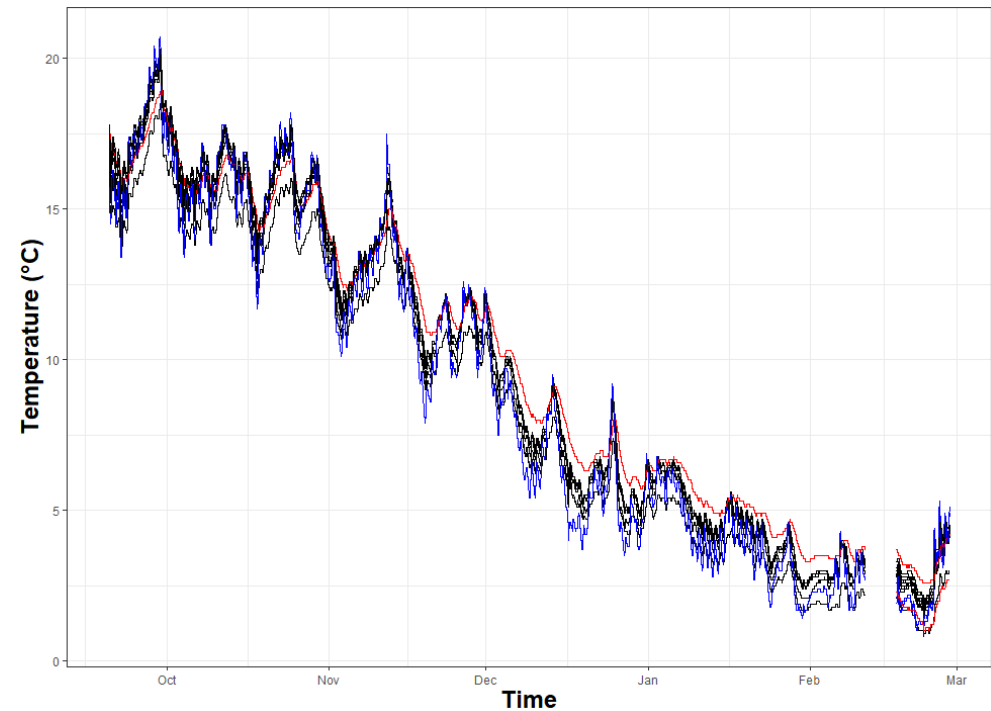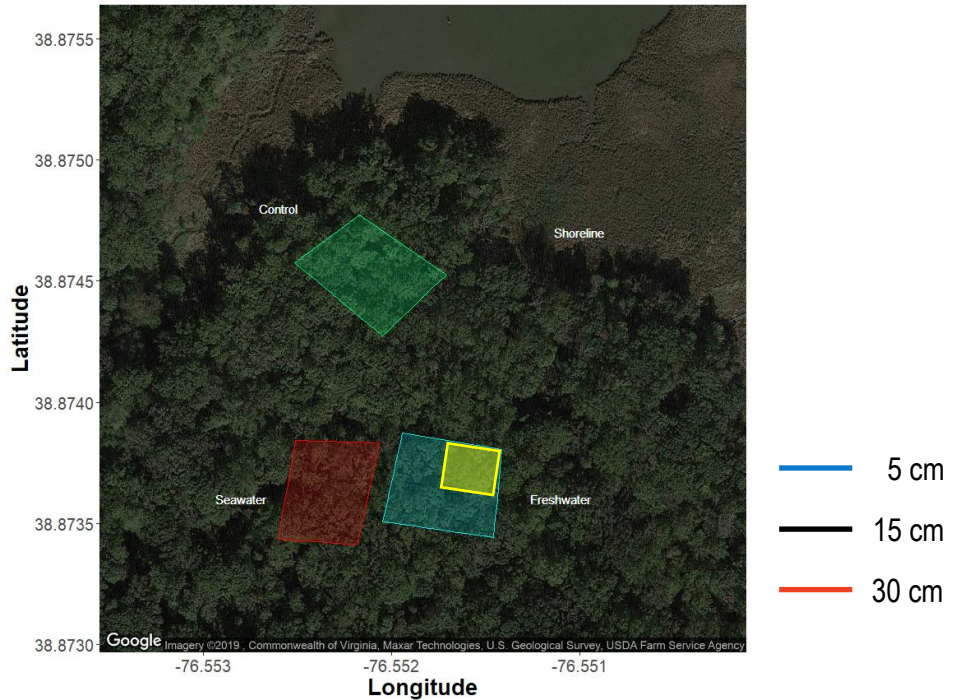
FRESHWATER PLOT – NORTHWESTERN THIRD (PNNL22)

14 sensors:
- #no data until February; T076
- #no data until February; T077
- #no data until February; T078
- #no data until February; T053
- **#no data; T080**
- #no data until February; T081
- **#no data; T082**
- #no data until February; T083
- #no data until February; T084
- #no data until February; T085
- #no data until February; T086
- **#no data; T040**
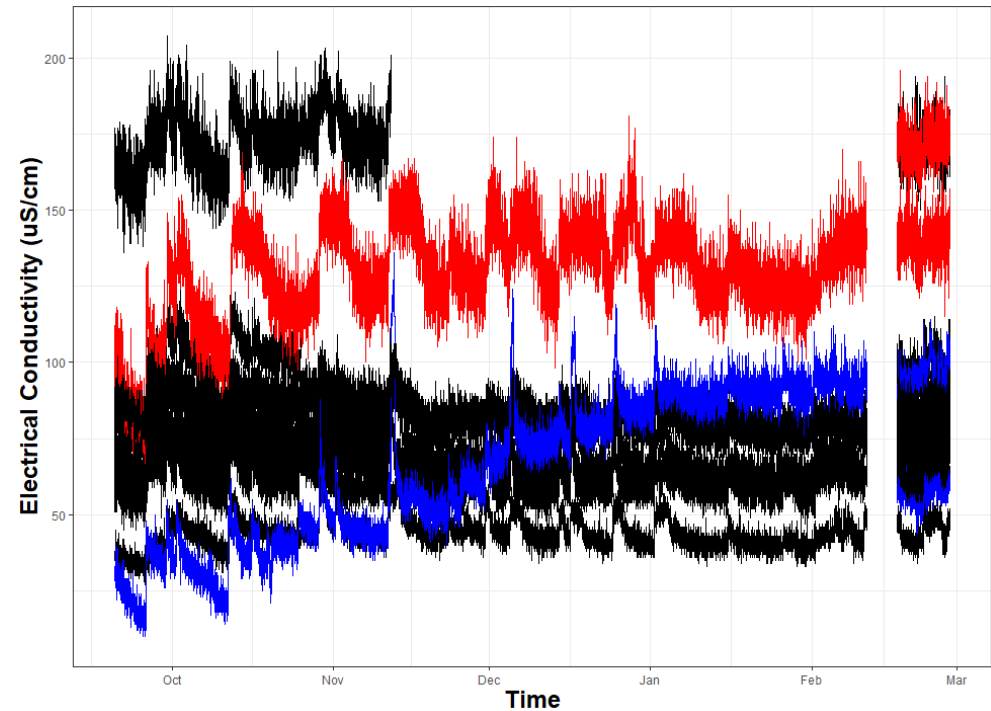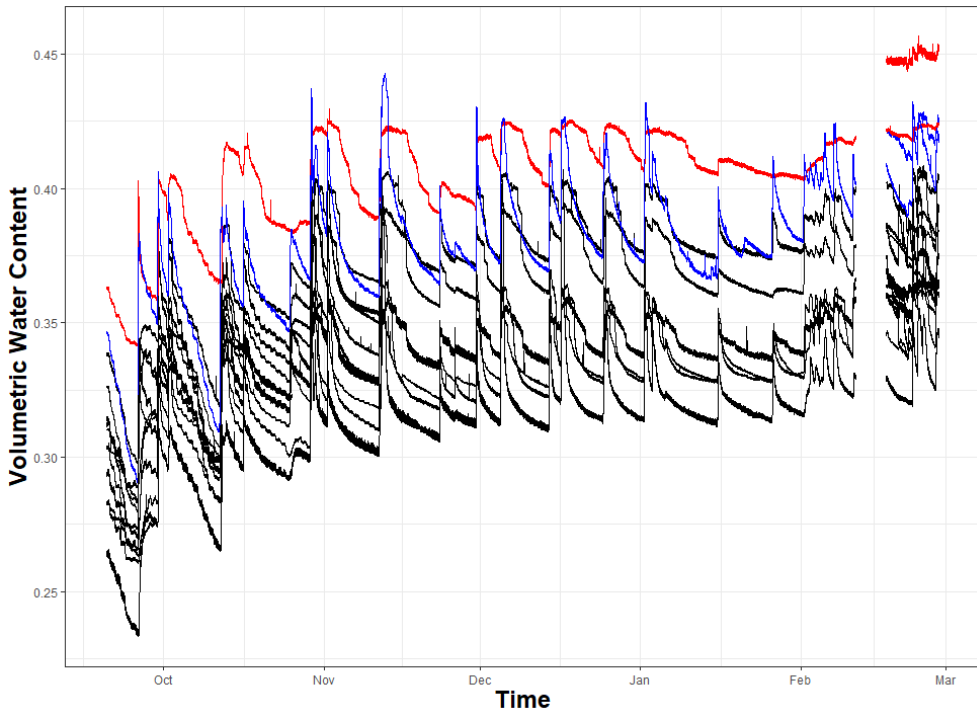- #no data until February; T041
- #no data until February; T042

# FRESHWATER PLOT – NORTHEASTERN THIRD (PNNL21)

17 sensors:
- #gap from mid-November-February; T001
- #no data until February; T002
- #maintenance gap in February; T003
- **#gap from late October-present; T004**
- #maintenance gap in February; T005
- #maintenance gap in February; T006
- #gap from late October-February; T007
- #maintenance gap in February; T008
- #maintenance gap in February; T009
- #maintenance gap in February; T012
- #gap from late-November-February; T013
- #no data until February; T121
- #no data until February; T122
- #maintenance gap in February; T123
- #maintenance gap in February; T124
- #gap from late November-February; T125
- #no data until February; T126

FRESHWATER PLOT – SOUTHERN THIRD (PNNL23)
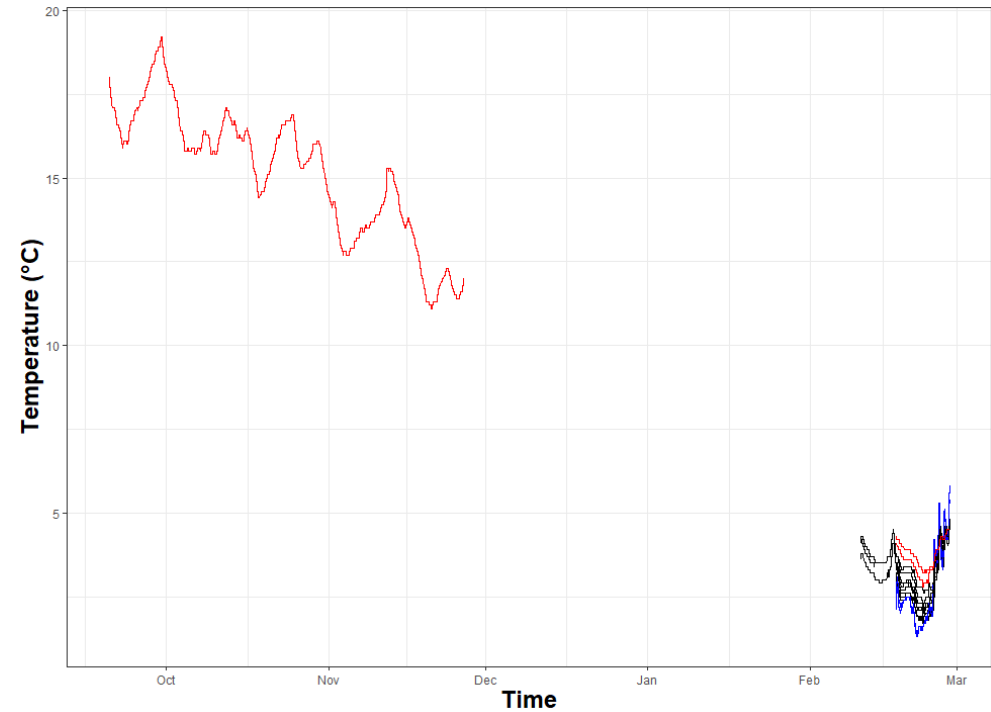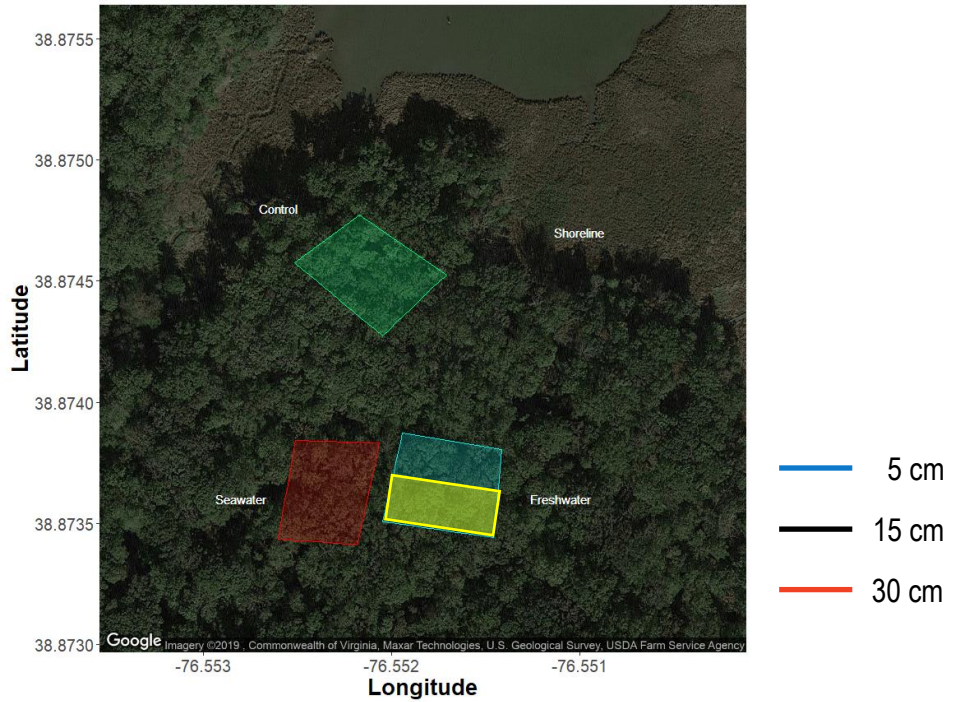
15 sensors:
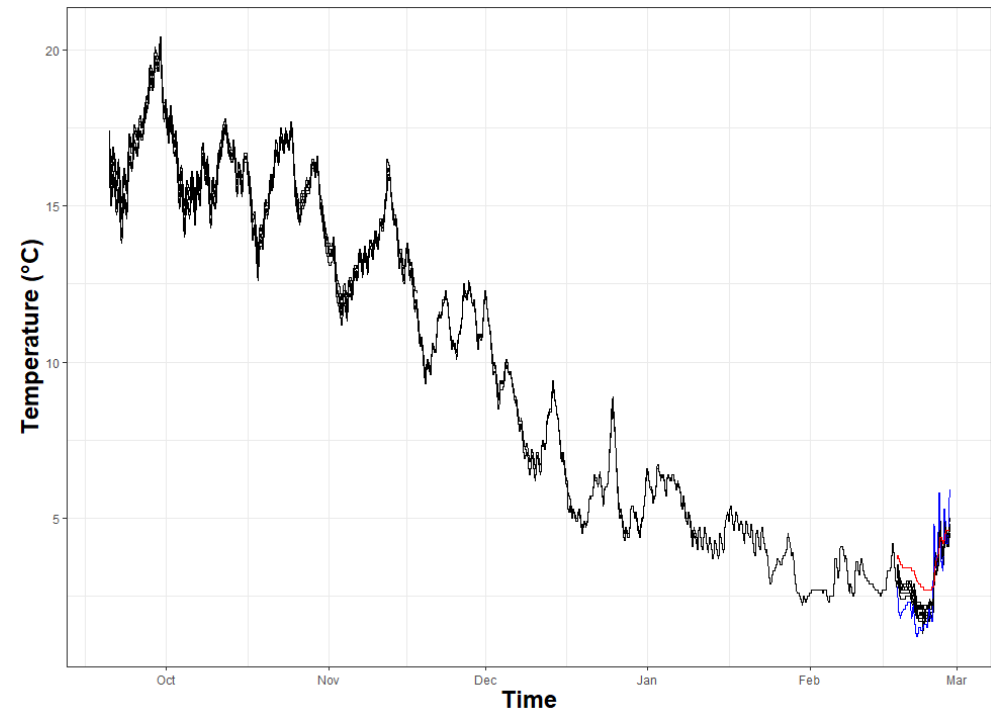- #no data until February; T014
- **#briefly on in February, then off; T015**
- #no data until February; T016
- #no data until February; T017
- #no data until February; T018
- #no data until February; T010
- #no data until February; T011
- #no data until February; T025
- #no data until February; T026
- #no data until February; T118
- #no data until February; T119
- #no data until February; T120
- #no data until February; T043
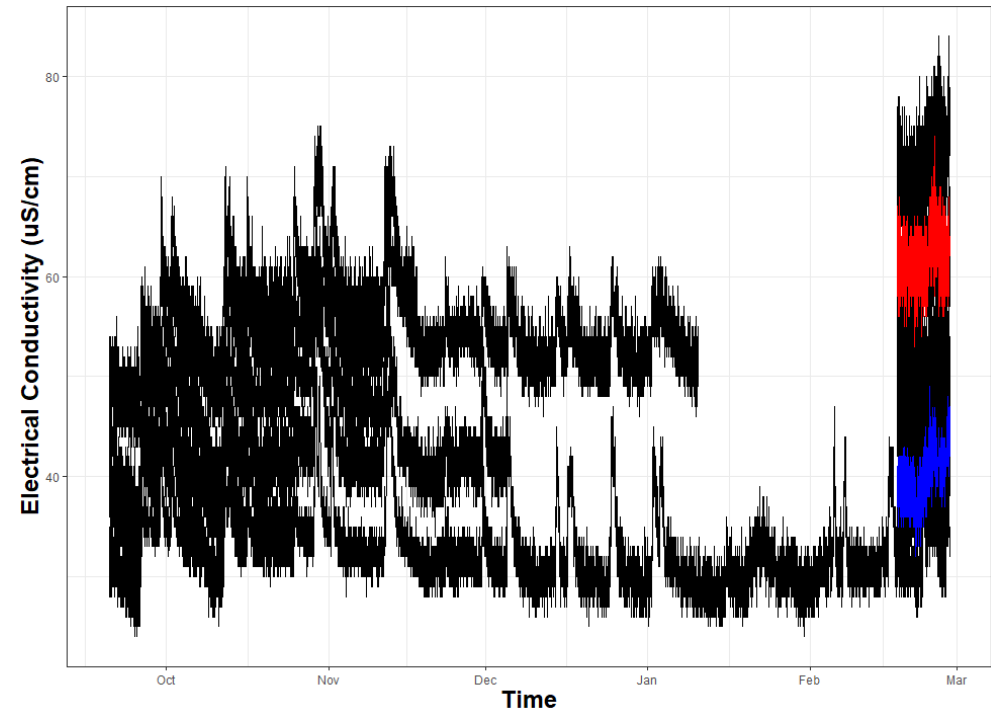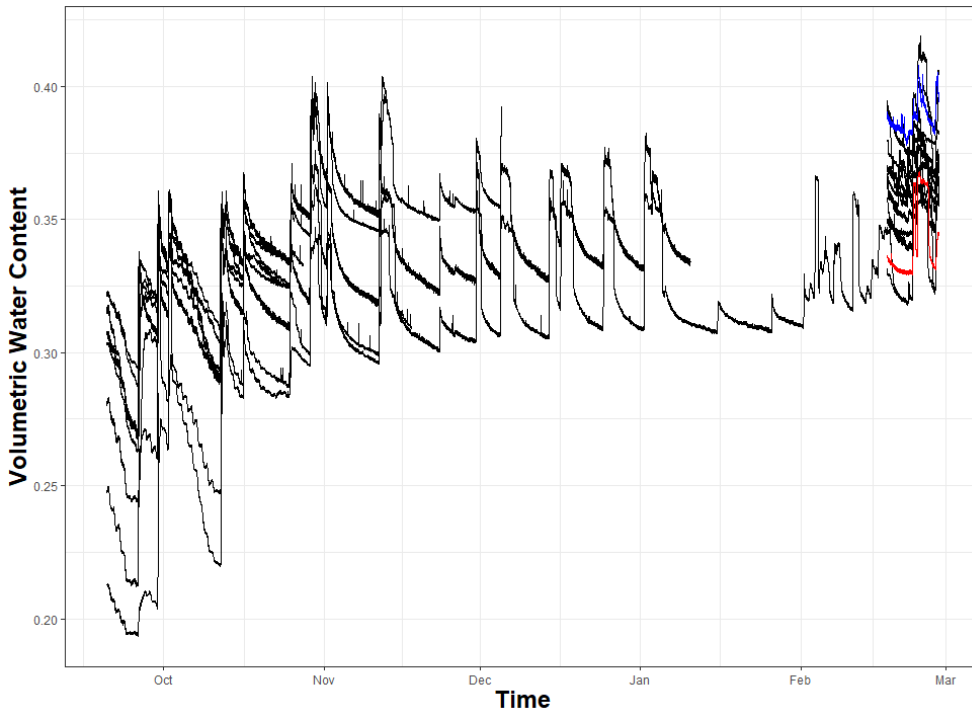- #no data until February; T044
- #gap from late December-February; T045
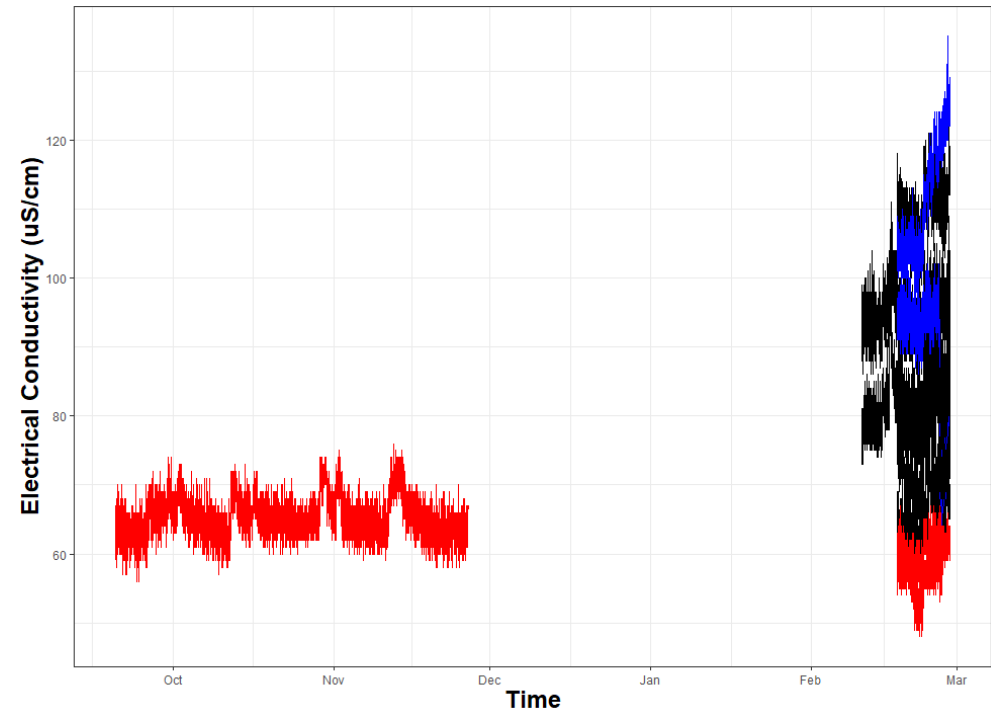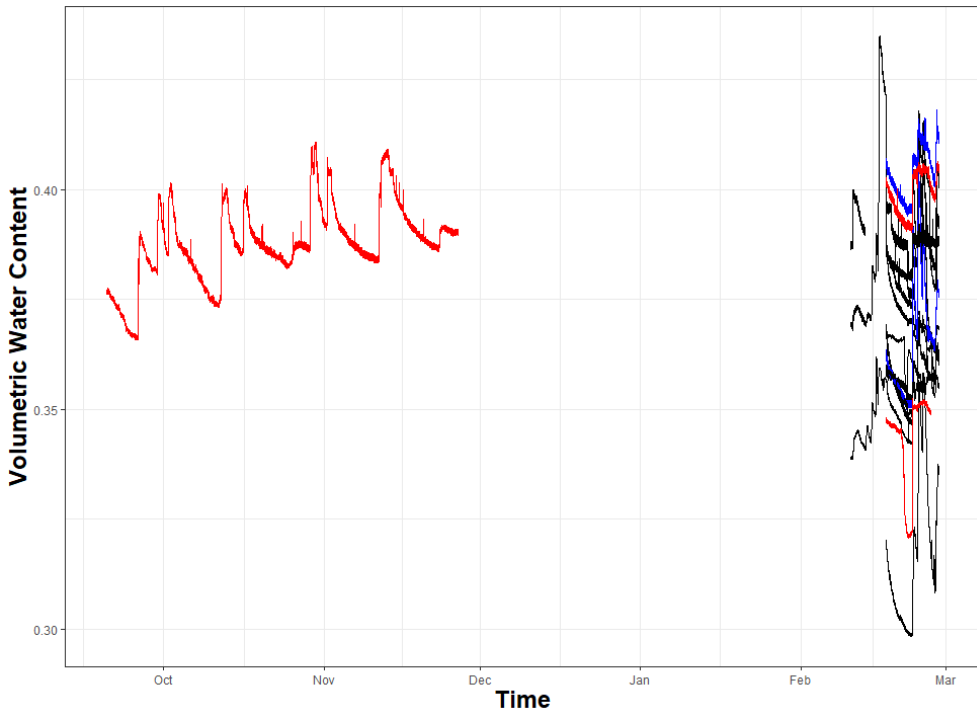
SEAWATER PLOT – NORTHWESTERN THIRD (PNNL31)
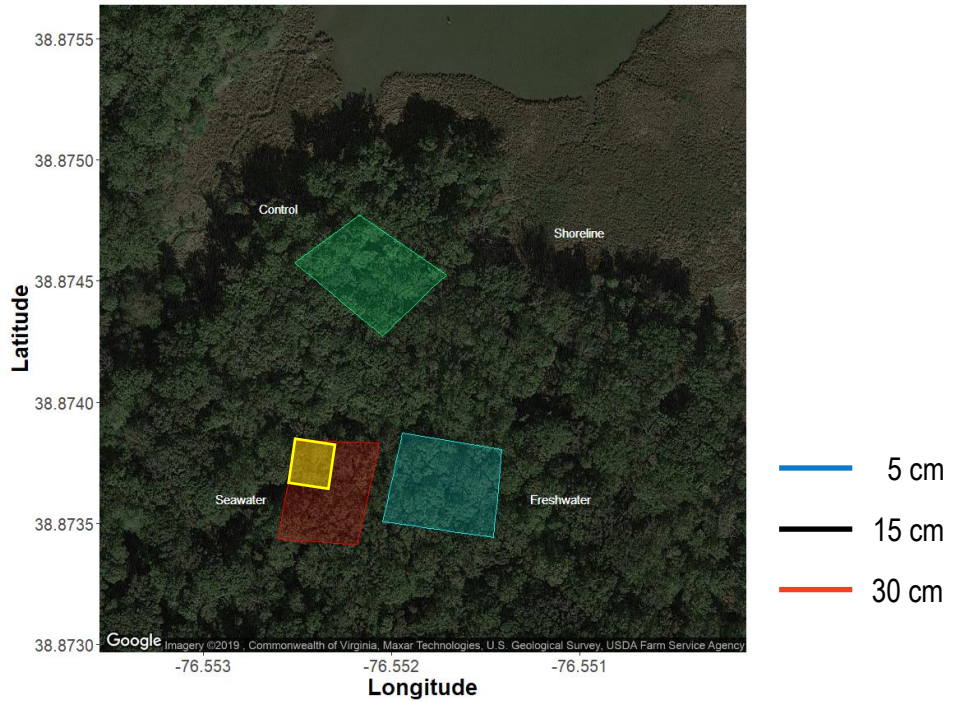
14 sensors:
- #no data until February; T027
- #no data until February; T028
- #gap from mid November-February; T029
- #maintenance gap in February; T030
- #gap from late October-February; T031
- #gap from mid December-February; T032
- #gag from late October-February; T020
- #gap from mid January-February; T021
- #gap from mid November-February; T022
- #no data until February; T023
- #no data until February; T024
- #no data until February; T089
- #no data until February; T090
- #no data until February; T091

SEAWATER PLOT – SOUTHWESTERN THIRD (PNNL33)

17 sensors:
- #gap from late January-February; T063
- #on in February T064
- #gap from mid November-February (no jumps); T065
- #gap from mid November-February; T066
- #no data until February; T067
- #no data until February; T068
- #no data until February; T069
- #no data until February; T070
- #no data until February; T071
- #no data until February; T087
- #gap from mid December-February (no jumps); T088
- **#briefly on in February then off; T092**
- #gap from mid January-February (no jumps); T093
- #gap mid October-February (no jumps); T094
- #no data until February; T046
- #no data until February; T047
- #no data until February; T048
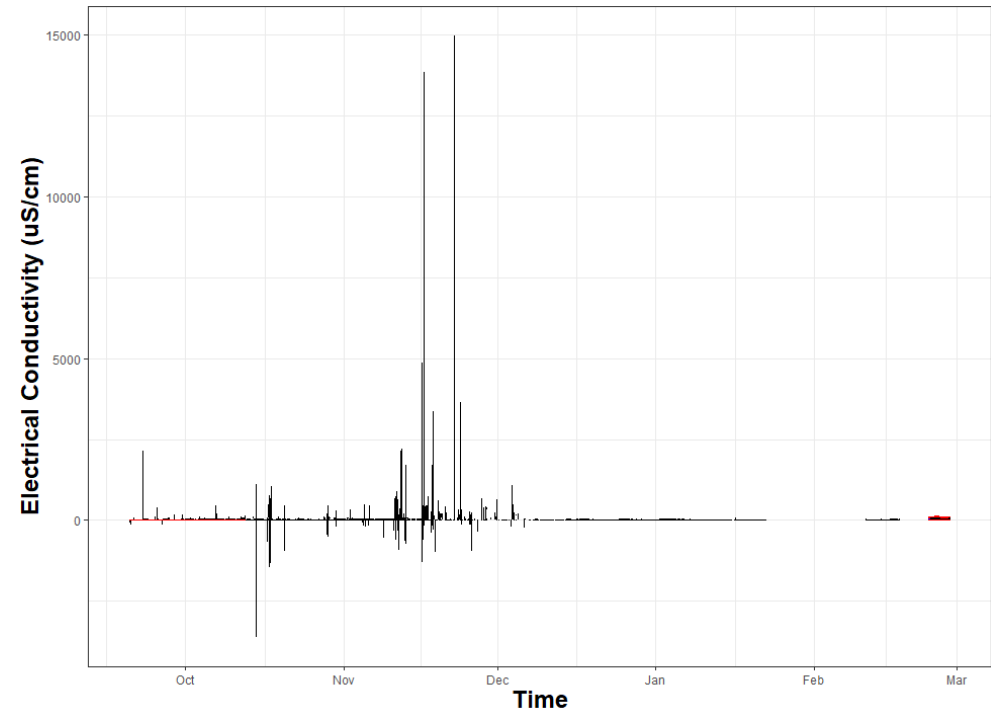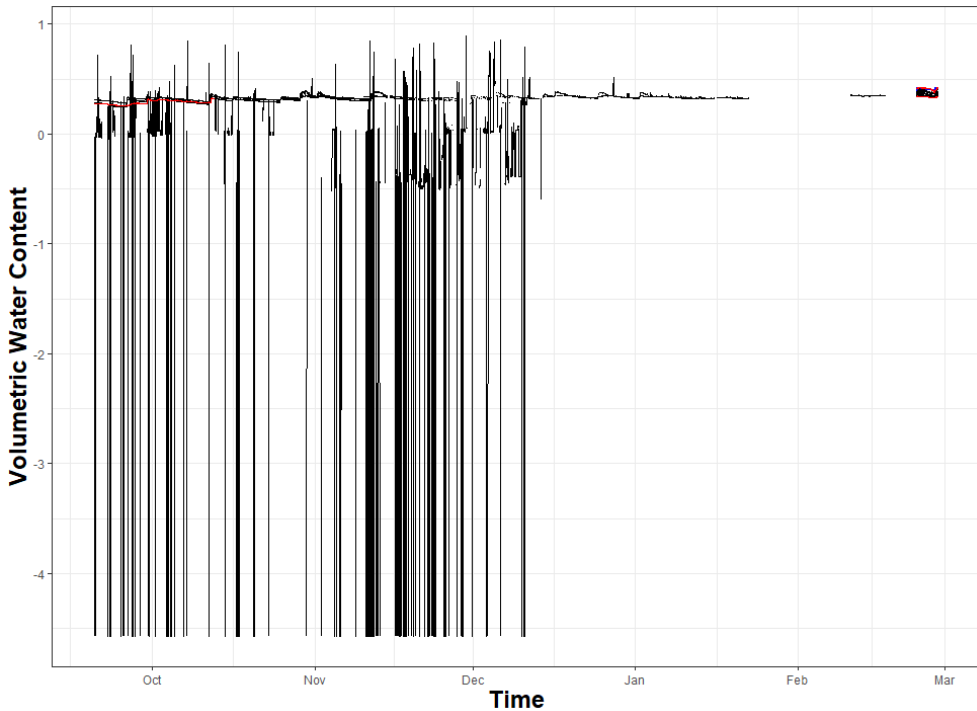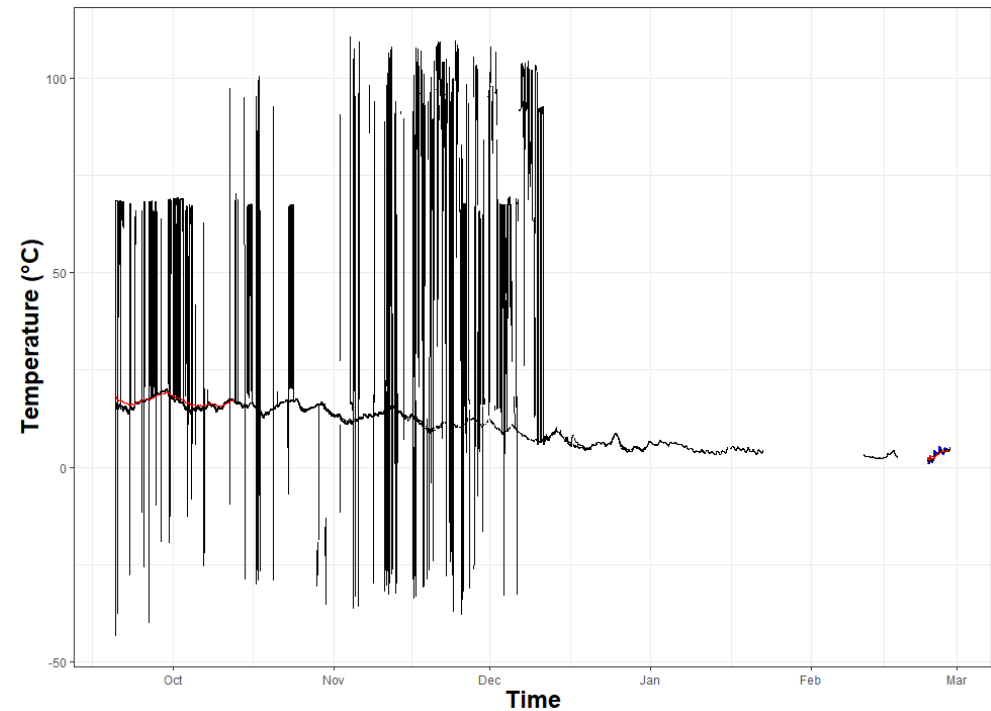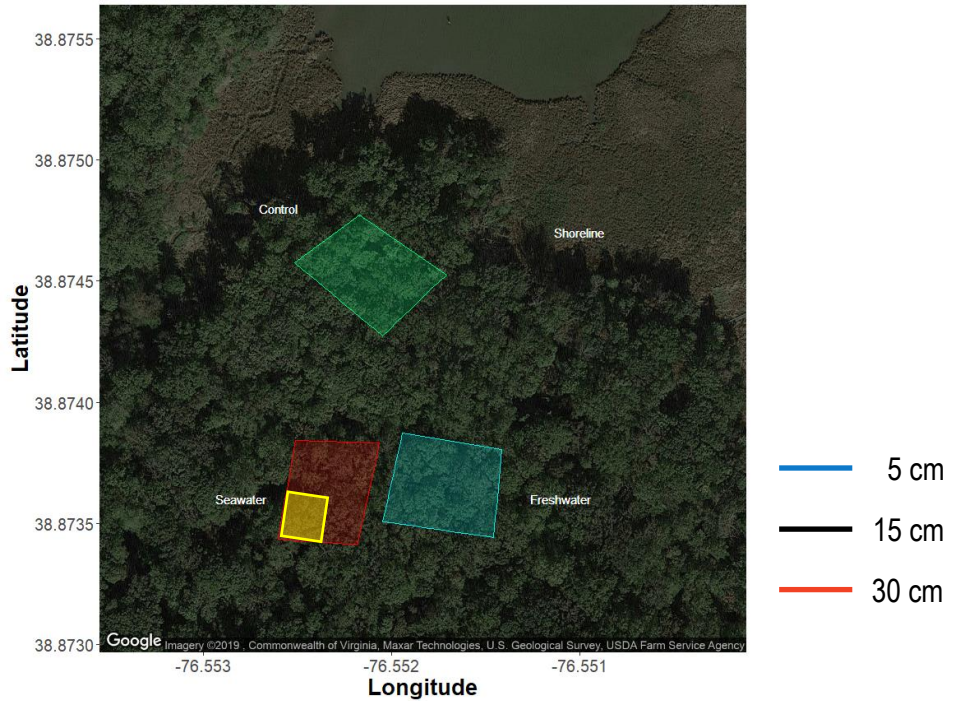
What causes huge sensor jumps?

SEAWATER PLOT – WESTERN (N&S) THIRD (PNNL32)

15 sensors:
- #data for all chunks; on in February; T050
- **#data first two chunks; off in February; T051**
- #data for all chunks; on in February; T052
- #data for all chunks; on in February; T102
- **#data for first two chunks; off in February; T054**
- #data for all chunks; on in February; T072
- #data for all chunks; on in February; T073
- #data for all chunks; on in February; T038
- **#data for first two chunks; briefly on in February, then off; T075**
- #data for first chunk; on in February; T105
- #data for all chunks; on in February; T049
- #data for all chunks; on in February; T098
- #data for all chunks; on in February; T106
- #data for all chunks; on in February; T096
- #data for all chunks; on in February; T128