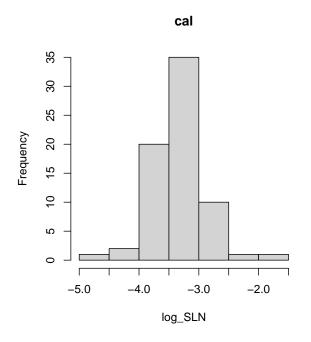
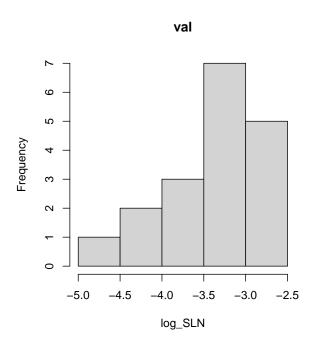
Use side-view HSI data to predict SLN

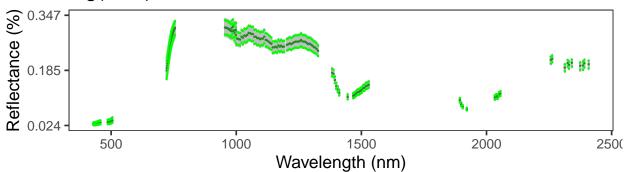
2023-08-08

```
## $plsralg
## [1] "oscorespls"
   [1] "940" "902" "927" "903" "931" "910" "948" "928" "930" "936" "908" "906"
   [13] "919" "917" "925" "929" "907" "915" "933" "945" "923" "922" "947" "935"
   [25] "937" "918" "943" "911" "920" "924" "909" "916" "944" "914" "912" "971"
   [37] "982" "970" "975" "954" "992" "991" "963" "985" "977" "968" "955" "996"
  [49] "950" "974" "990" "993" "953" "952" "967" "959" "987" "973" "980" "966"
## [61] "995" "972" "979" "957" "989" "984" "951" "978" "965" "958"
   [1] "904" "905" "921" "926" "932" "934" "941" "942" "946" "956" "960" "962"
  [13] "969" "981" "983" "986" "988" "994"
            value
## 569 0.02740414 1518.0900
## 260 0.02690337 721.7016
## 440 0.02688053 955.0698
## 725 0.02634238 2391.2300
## 560 0.02623091 1467.5100
## 535 0.02616734 1326.7500
```

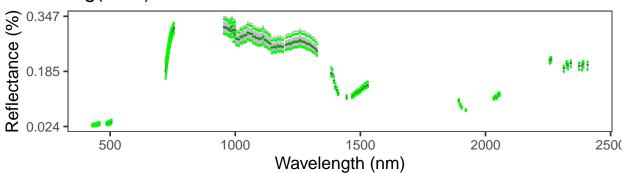


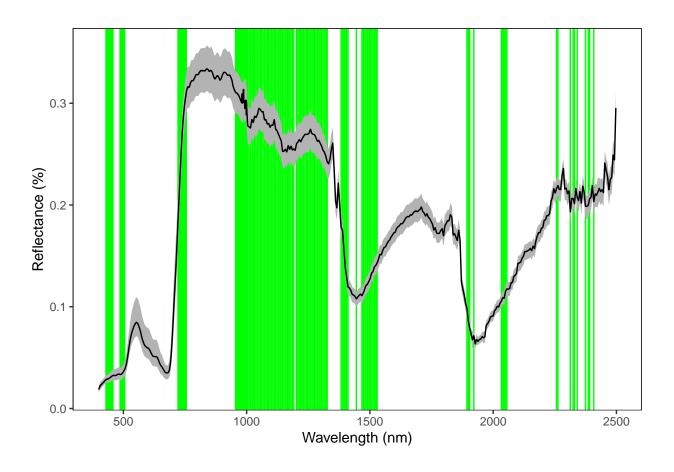


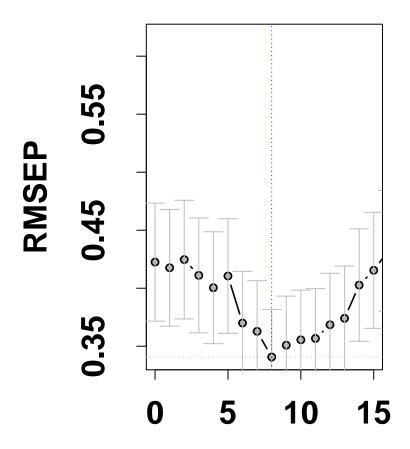




log(SLN) validation dataset

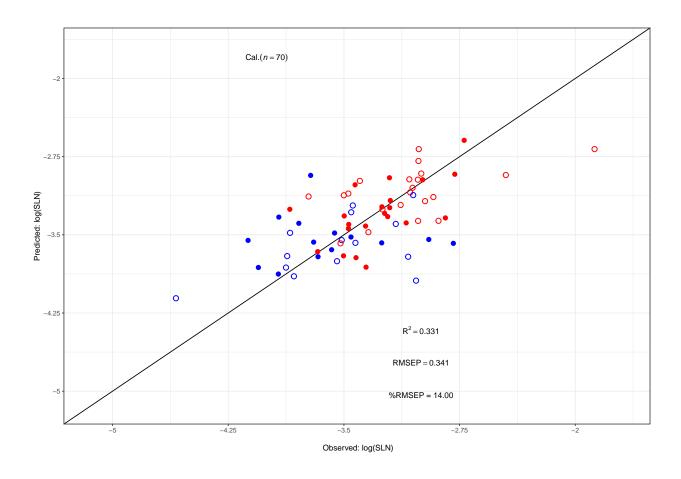


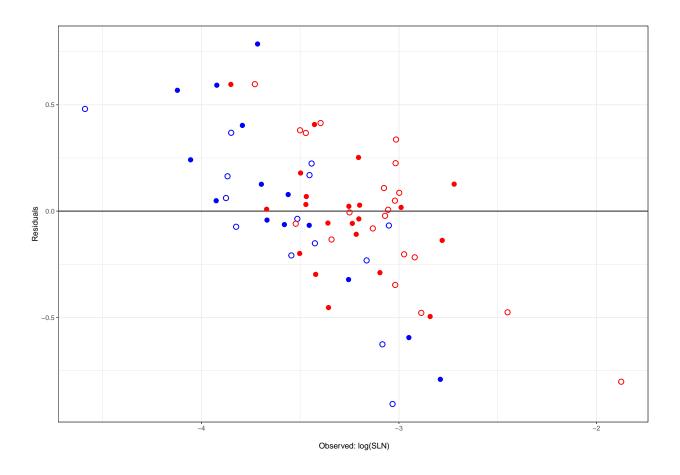


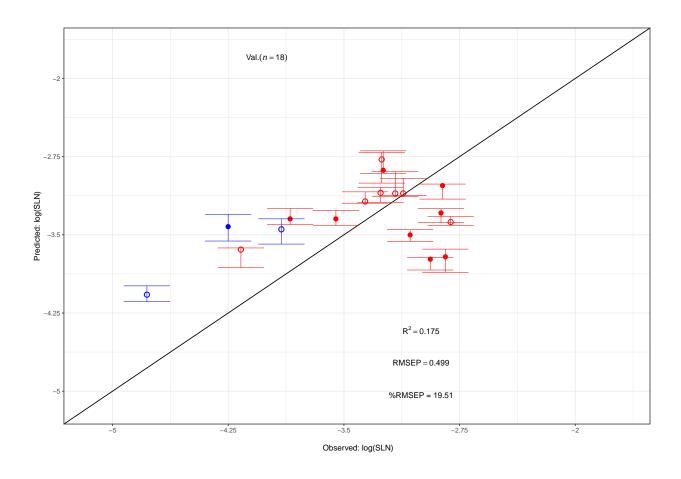


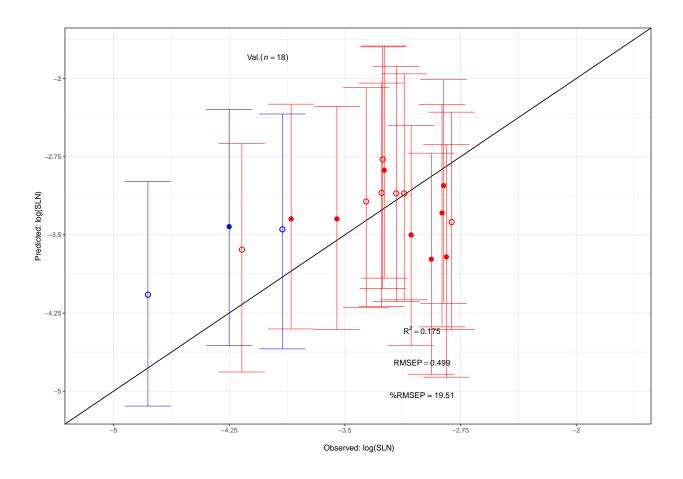
Number of compone

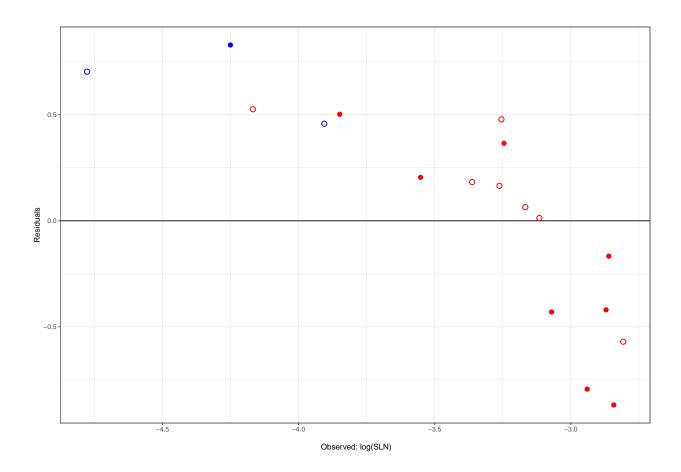
```
data_set
                 R2 RMSEP NRMSEP
## 1
          cal 0.331 0.341 12.553
## 2
          val 0.175 0.499 25.353
##
      Observed Predicted Residuals Treatment Subpop
                                                            uci
## 1 -2.860595 -3.027599 -0.1670035
                                           N1
                                                 IND -3.012910 -3.157079 -2.011908
## 2 -3.070720 -3.500972 -0.4302519
                                           N1
                                                 IND -3.451003 -3.565176 -2.451715
## 3 -2.939904 -3.733993 -0.7940895
                                                 IND -3.715753 -3.837620 -2.716073
                                           N1
## 4 -3.245383 -2.880103 0.3652795
                                           N1
                                                  IND -2.694111 -2.909196 -1.687981
## 5 -3.848949 -3.346711 0.5022384
                                           N1
                                                 IND -3.247445 -3.401708 -2.245849
## 6 -3.551999 -3.347307 0.2046923
                                           N1
                                                 IND -3.268796 -3.409556 -2.268634
##
           lpi
## 1 -4.158082
## 2 -4.564464
## 3 -4.837299
## 4 -3.915326
## 5 -4.403304
## 6 -4.409718
```











```
## Iteration Intercept X998.47 X992.79 X987.1 X1049.59
## Seg 1 1 -9.573198 16.957513 19.54718 -0.5278132 5.303269
             2 -8.235991 10.417589 17.39476 -4.9854265 8.994685
## Seg 2
## Seg 3
              3 -9.240031 9.907058 20.51614 -1.4140763 8.266170
              4 -8.769102 8.945495 21.67798 -1.4009929 9.110979
## Seg 4
## Seg 5
             5 -8.286034 8.748976 20.64457 -3.3599427 9.836987
## Seg 6
             6 -8.422274 4.908238 22.27677 -2.2854654 10.185705
            coefs
## 998.47 9.072560
## 992.79 21.716571
## 987.1 -1.338233
## 1049.59 8.618368
## 1100.64 10.817324
## 1145.96 -5.256617
```