

Use side-view HSI data to predict SLA_C

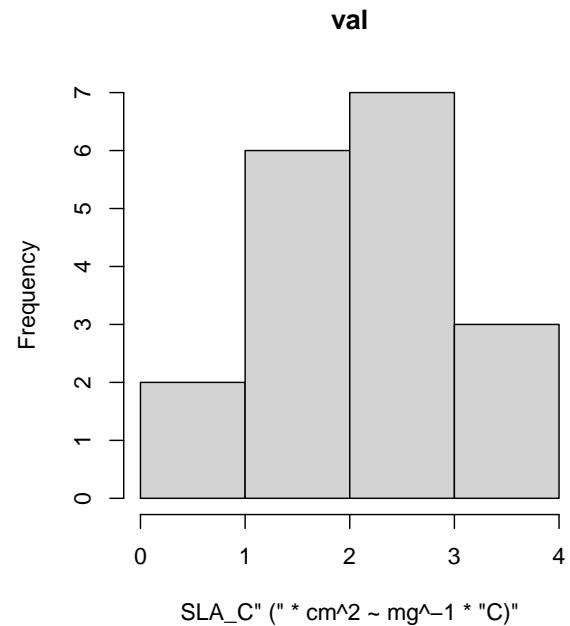
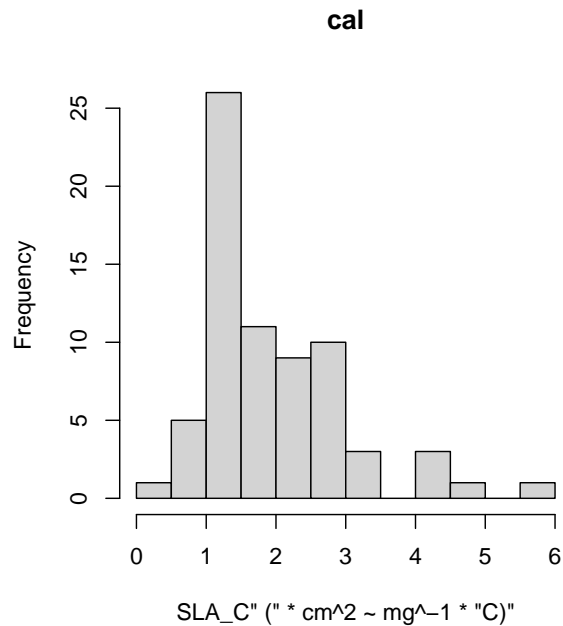
2023-08-08

```
## $plsralg
## [1] "oscorespls"

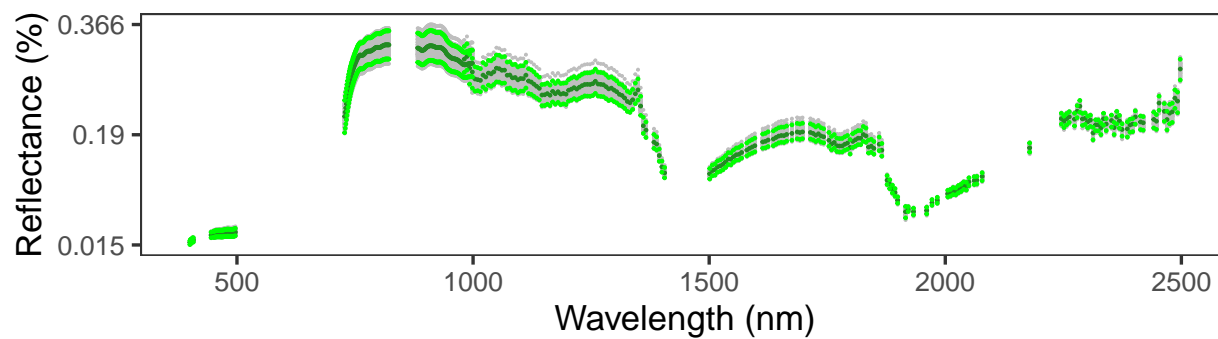
## [1] "916" "946" "908" "929" "941" "917" "948" "912" "926" "919" "931" "910"
## [13] "940" "943" "933" "907" "942" "928" "936" "922" "909" "920" "911" "927"
## [25] "915" "921" "906" "944" "947" "945" "905" "914" "925" "903" "904" "971"
## [37] "952" "990" "975" "951" "981" "993" "978" "983" "984" "955" "959" "995"
## [49] "967" "970" "987" "956" "965" "973" "960" "972" "963" "958" "979" "969"
## [61] "996" "989" "950" "992" "991" "980" "985" "954" "977" "982"

## [1] "902" "918" "923" "924" "930" "932" "934" "935" "937" "953" "957" "962"
## [13] "966" "968" "974" "986" "988" "994"

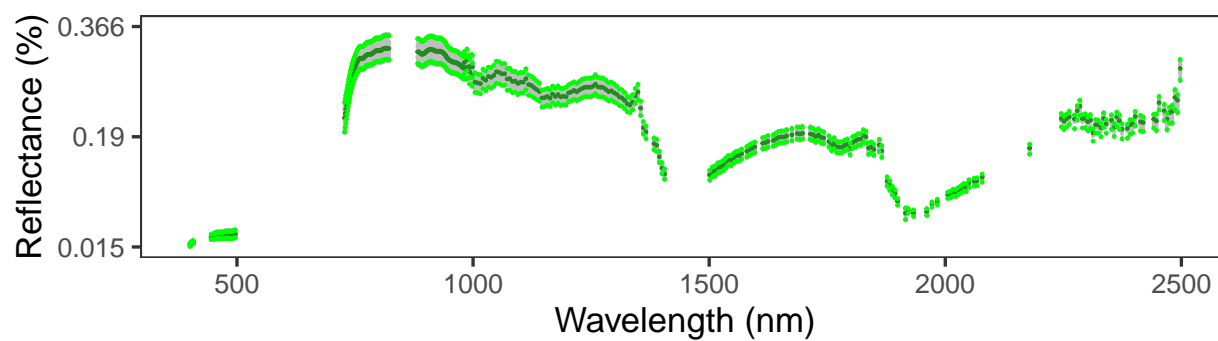
##           value           wv
## 587 0.01537543 1619.1500
## 338 0.01525597  821.8144
## 709 0.01523666 2301.7500
##  38 0.01523475  445.2482
## 593 0.01522247 1652.8000
##  80 0.01517340  496.5873
```

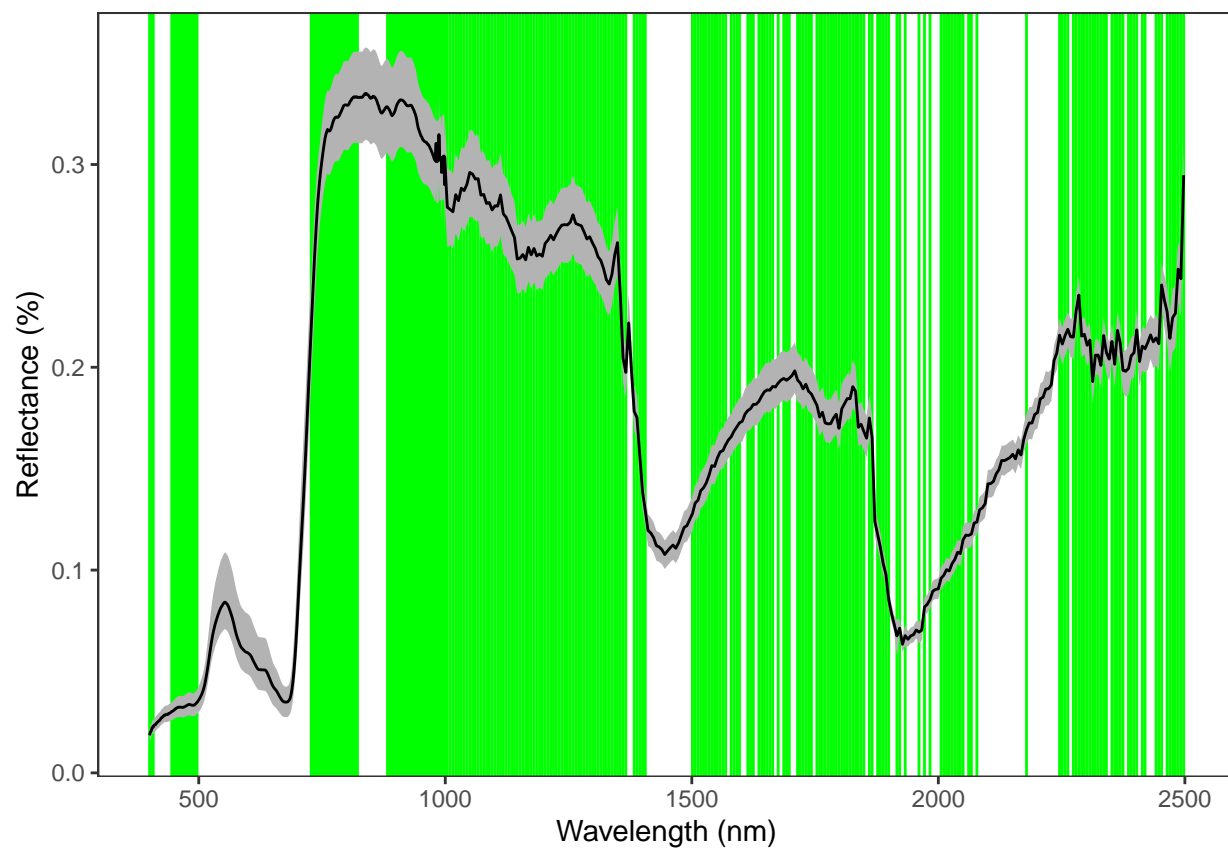


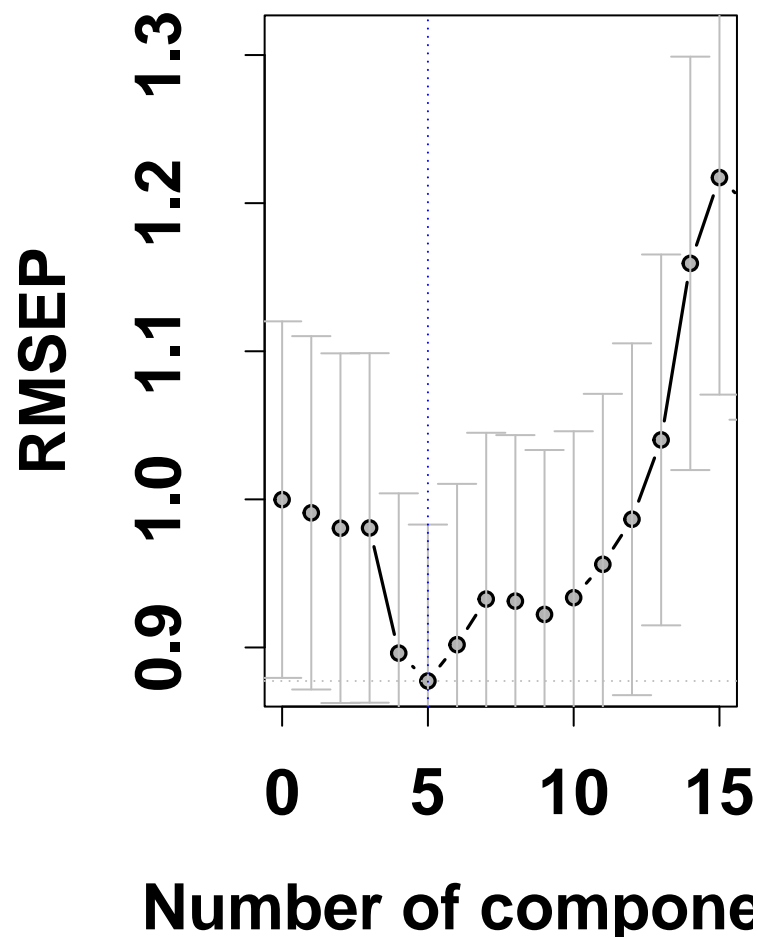
SLA_C calibration dataset



SLA_C validation dataset

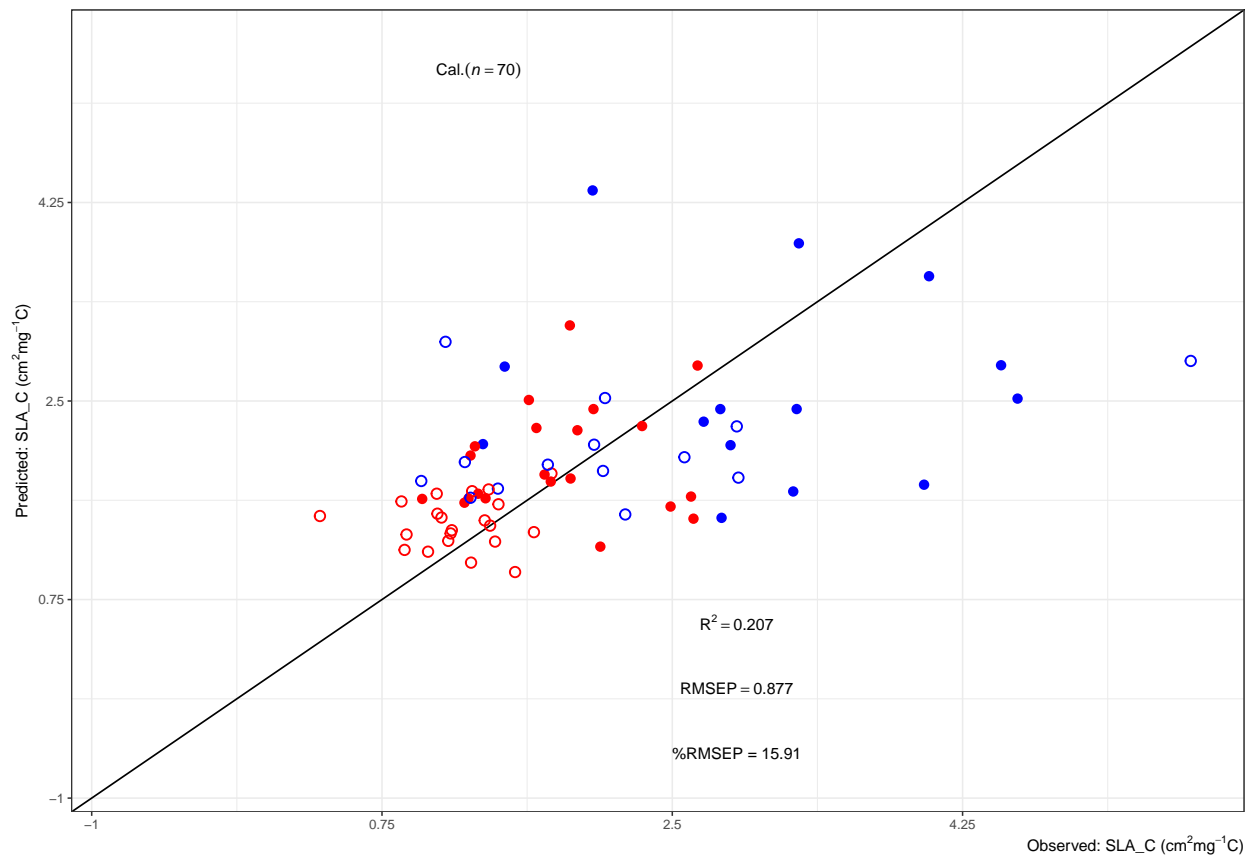


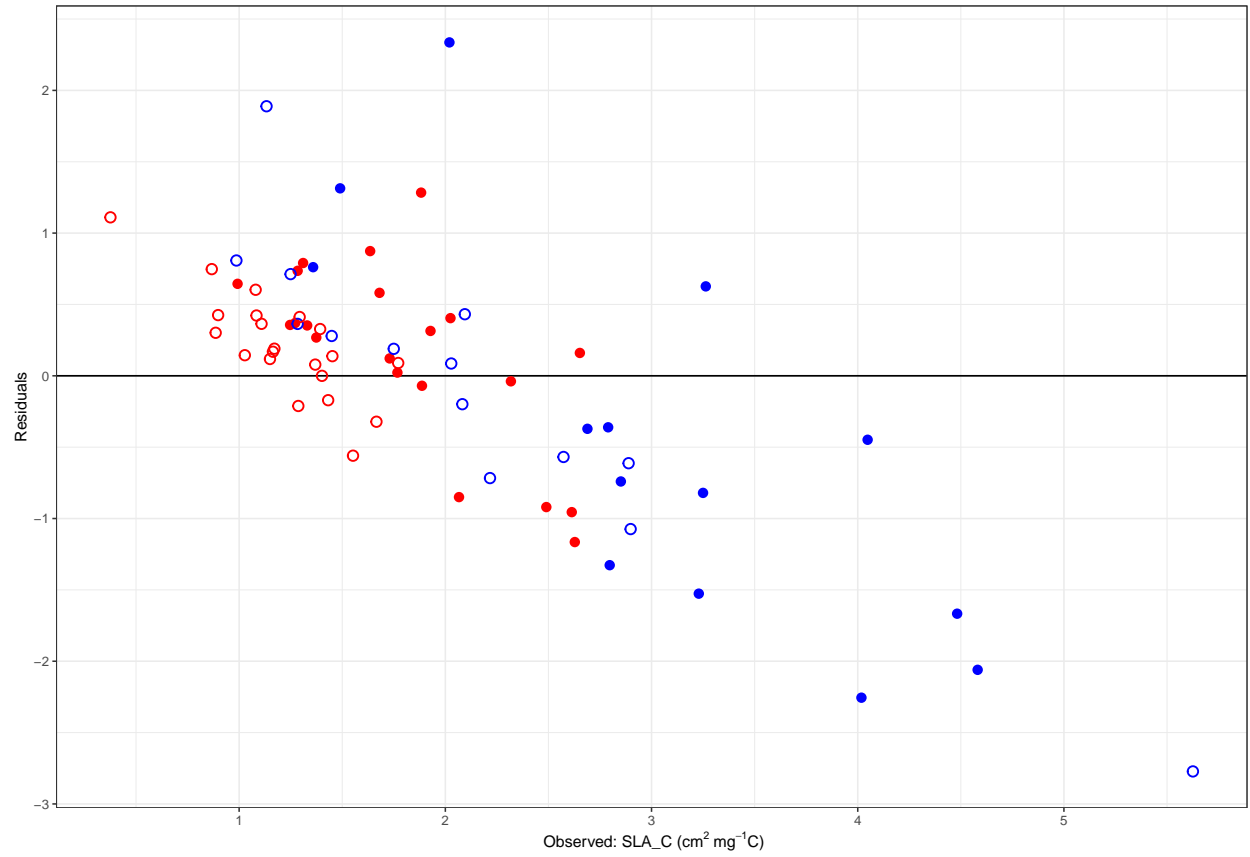


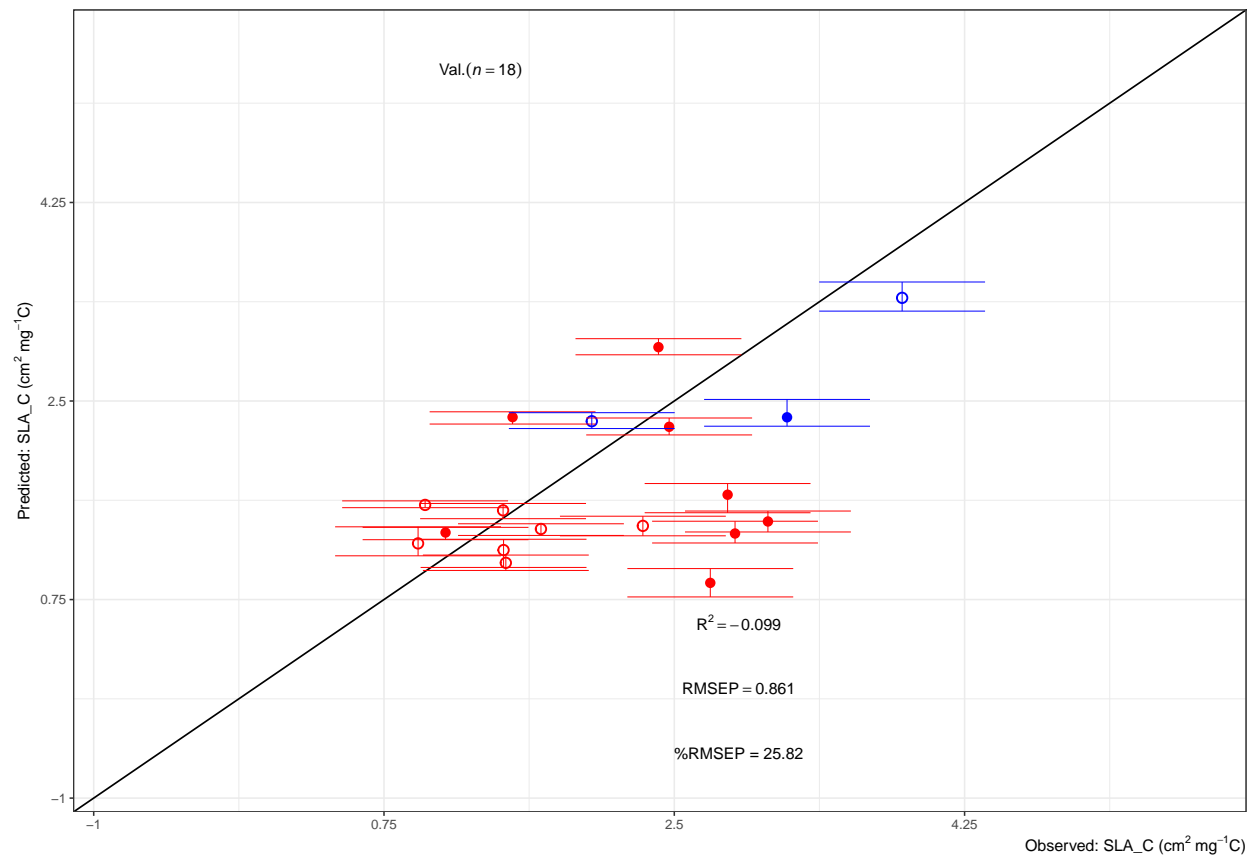


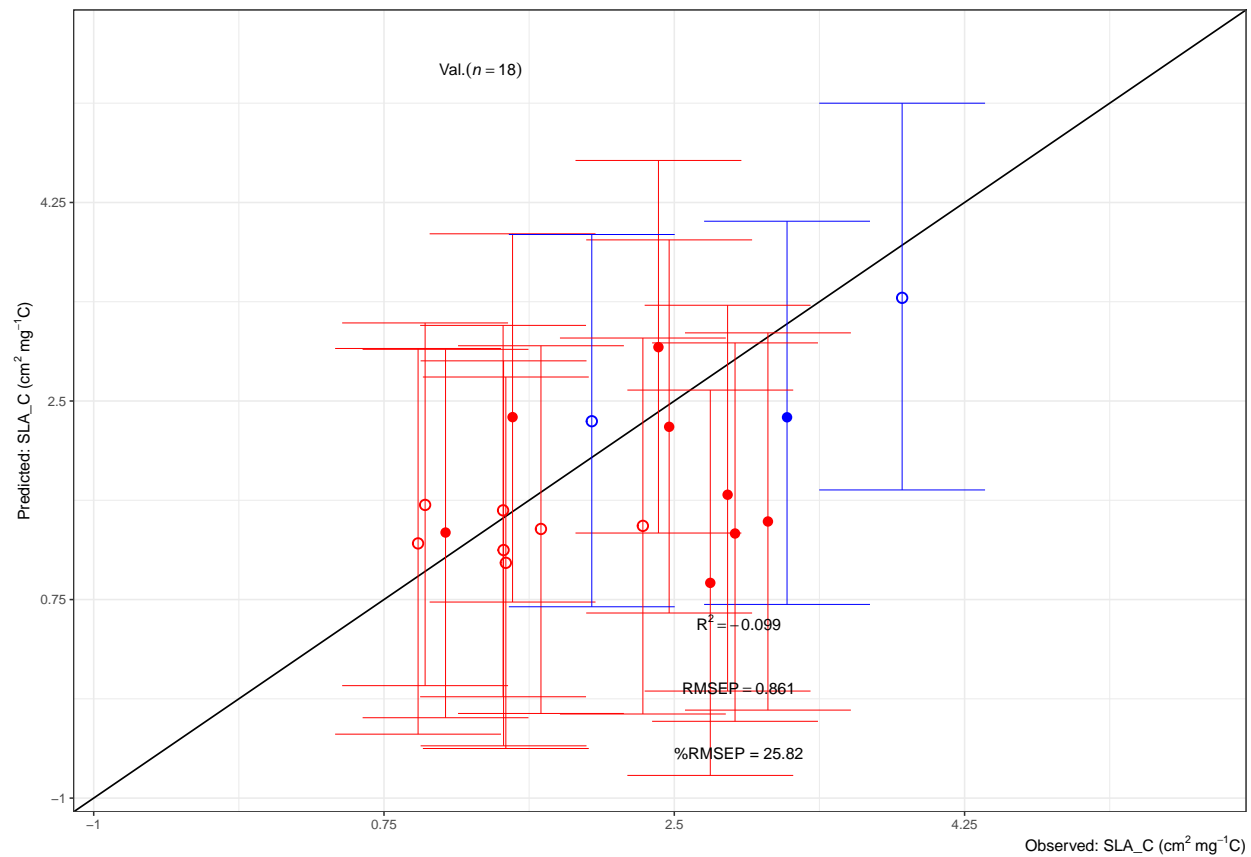
```
## data_set      R2 RMSEP NRMSEP
## 1      cal  0.207 0.877 16.714
## 2      val -0.099 0.861 29.508
```

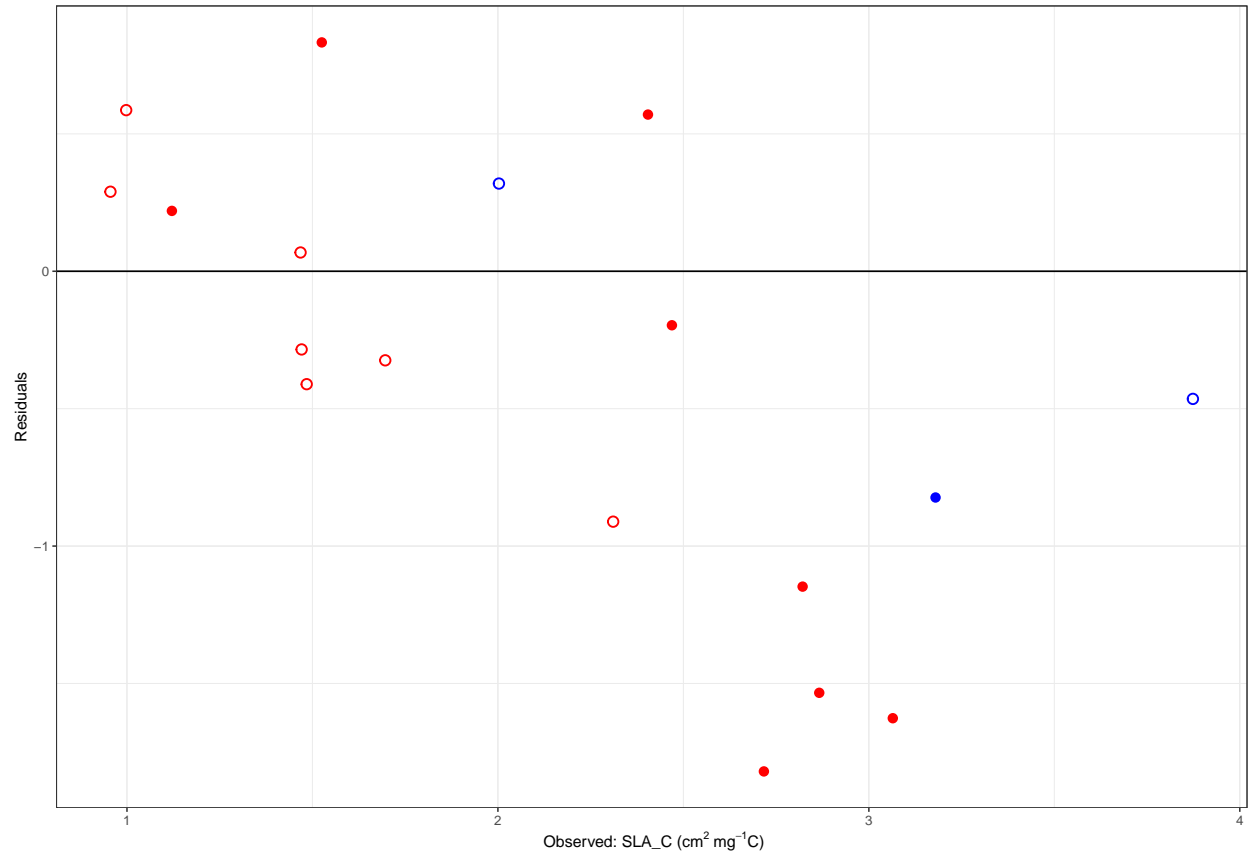
```
## Observed Predicted Residuals Treatment Subpop      uci      lci      upi
## 1 3.179768 2.356494 -0.8232740      N1      TRJ 2.513897 2.278011 4.084682
## 2 2.469068 2.272536 -0.1965325      N1      IND 2.350318 2.201115 3.920018
## 3 1.121088 1.340777 0.2196889      N1      IND 1.386489 1.277469 2.955557
## 4 2.404532 2.974689 0.5701562      N1      IND 3.049322 2.907298 4.620265
## 5 2.866228 1.332258 -1.5339704      N1      IND 1.440470 1.248592 3.012248
## 6 2.821430 1.673913 -1.1475172      N1      IND 1.772482 1.515081 3.344074
##          lpi
## 1 0.70722586
## 2 0.63141540
## 3 -0.29159899
## 4 1.33635477
## 5 -0.32318606
## 6 -0.05651097
```











```
##      Iteration Intercept   X992.79   X987.1 X1004.15 X1049.59
## Seg 1          1  2.565435 -11.27901  4.131551  4.509563  3.681251
## Seg 2          2  3.244470 -11.36172  4.001184  4.420323  3.490347
## Seg 3          3  2.818857 -11.20707  4.148447  4.486348  3.362018
## Seg 4          4  3.435570 -11.37979  4.059744  4.452092  3.475903
## Seg 5          5  3.250071 -11.30785  4.048070  4.441747  3.474999
## Seg 6          6  3.164854 -11.41396  4.041190  4.427193  3.483408
```

```
##      coefs
## 992.79 -11.280272
## 987.1   4.045525
## 1004.15 4.441206
## 1049.59 3.477618
## 1100.64 3.826321
## 1117.64 3.487192
```