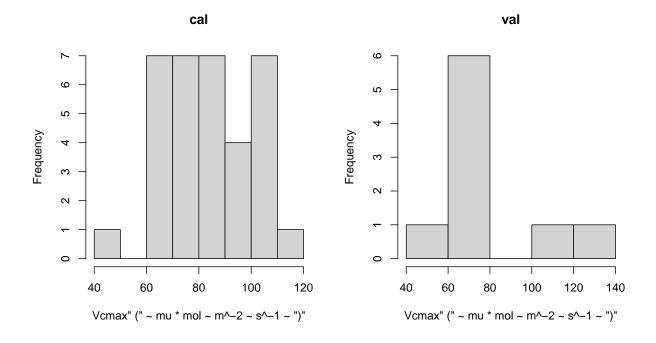
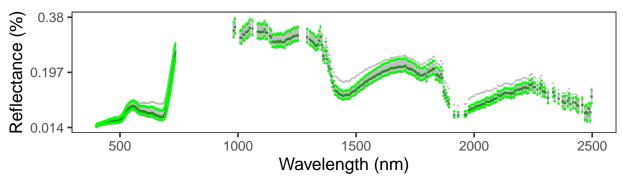
Use side-view HSI data to predict Vcmax on W13

2023-08-08

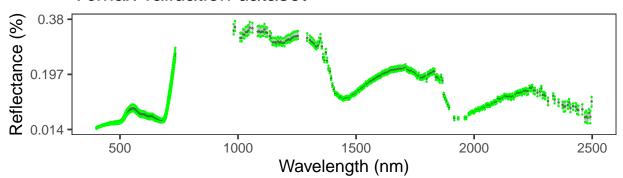
```
## $plsralg
## [1] "oscorespls"
   [1] "943" "947" "903" "936" "939" "948" "915" "919" "934" "911" "917" "938"
  [13] "946" "914" "942" "922" "956" "968" "990" "954" "974" "986" "995" "959"
  [25] "973" "967" "953" "978" "977" "985" "964" "984" "993" "952"
## [1] "920" "921" "925" "945" "951" "971" "972" "983" "992"
##
             value
## 475 -0.05414630
                   987.1000
## 270 -0.05486496
## 474 -0.05488974
                   981.4100
## 494 -0.05490181 1094.9700
      -0.05500032 408.8526
## 730 -0.05634197 2419.2000
```

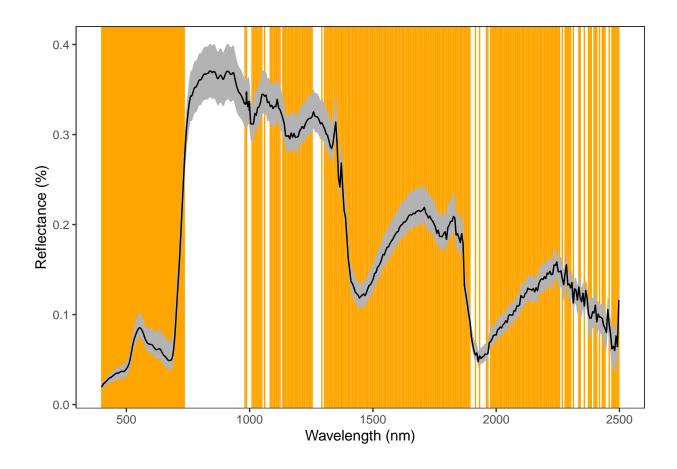


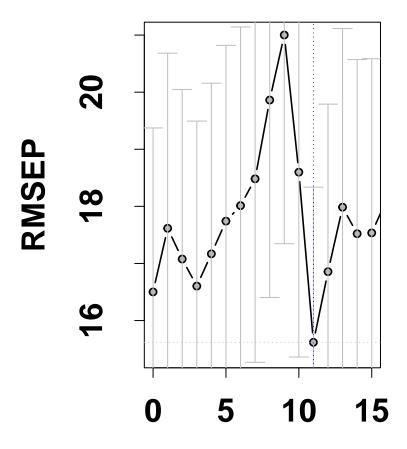
Vcmax calibration dataset



Vcmax validation dataset

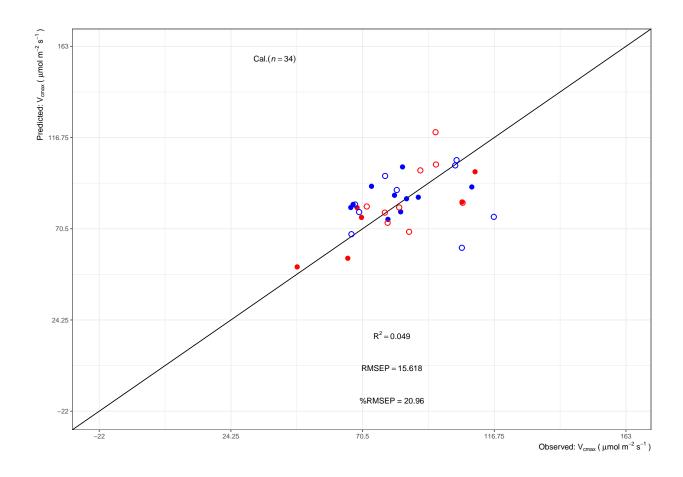


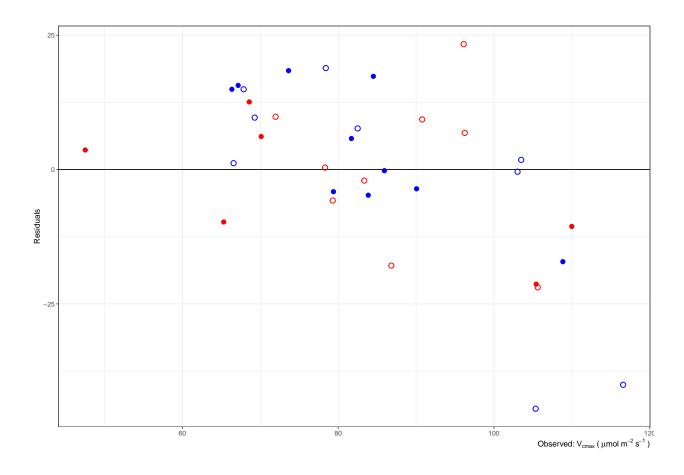


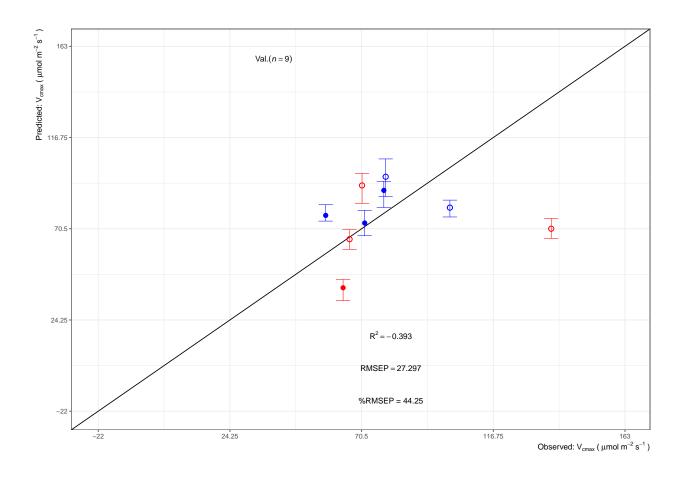


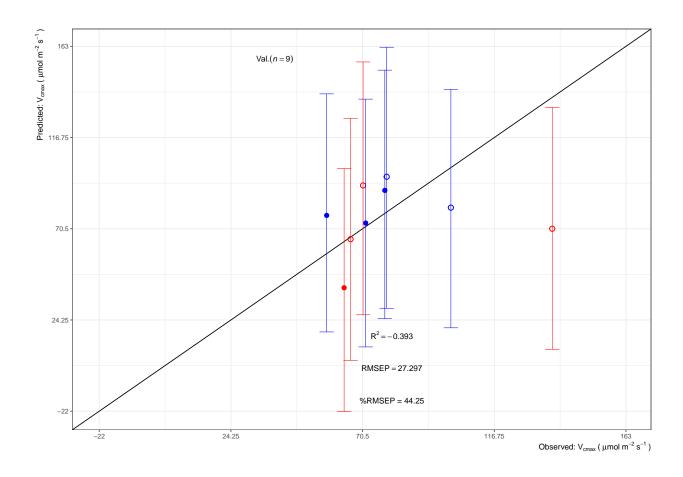
Number of compone

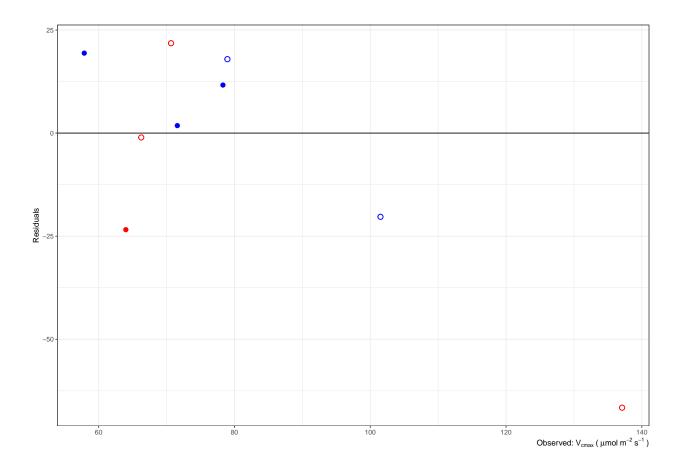
```
R2 RMSEP NRMSEP
     data_set
## 1
         cal 0.049 15.618 22.613
## 2
         val -0.393 27.297 34.456
     Observed Predicted Residuals Treatment Subpop
                                                                  lci
## 1 57.87484 77.26341 19.388571
                                         N1
                                               TRJ 82.68914 74.38434 138.8886
## 2 63.99828 40.58031 -23.417974
                                         N1
                                               IND 44.79041 34.02958 101.0742
## 3 71.58214 73.39458
                         1.812441
                                         N1
                                               TRJ
                                                    79.84638 66.96933 136.2268
## 4 78.29995 89.95026
                       11.650316
                                         N1
                                                   94.57109 81.27602 150.9205
                                               IND 98.58366 83.36345 155.0797
## 5 70.65988 92.45519
                        21.795308
                                         N2
## 6 78.95585
              96.87736 17.921511
                                         N2
                                               TRJ 105.90319 86.81096 162.5537
##
          lpi
## 1 18.18492
## 2 -22.25424
## 3
     10.58890
## 4 24.92665
    26.86738
## 6 30.16048
```











```
## Iteration Intercept X662.1255 X660.86404 X501.50012 X450.11829
## Seg 1 1 -302.1212 -97.96553 -103.6950 111.34492
                                                          68.84207
## Seg 2
             2 -202.4731 -117.47918 -123.8088 105.37353
                                                         84.01011
## Seg 3
             3 -287.9722 -89.71344 -100.1167 110.85330
                                                          59.16156
## Seg 4
             4 -280.7927 -97.61123 -104.7783 101.68006
                                                          64.04179
             5 -284.8849 -94.37987 -100.1860 105.90334
## Seg 5
                                                          79.69407
## Seg 6
             6 -254.2108 -103.63883 -114.2175 85.86584
                                                          69.89201
               coefs
## 662.1255 -100.15199
## 660.86404 -108.06213
## 501.50012 110.80071
## 450.11829 68.49952
## 502.72897 137.66889
## 659.60283 -118.41966
```