

Use side-view HSI data to predict Jmax on W9

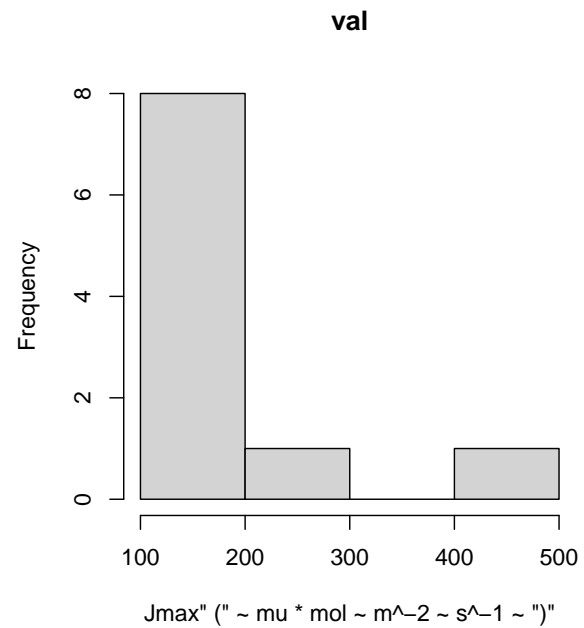
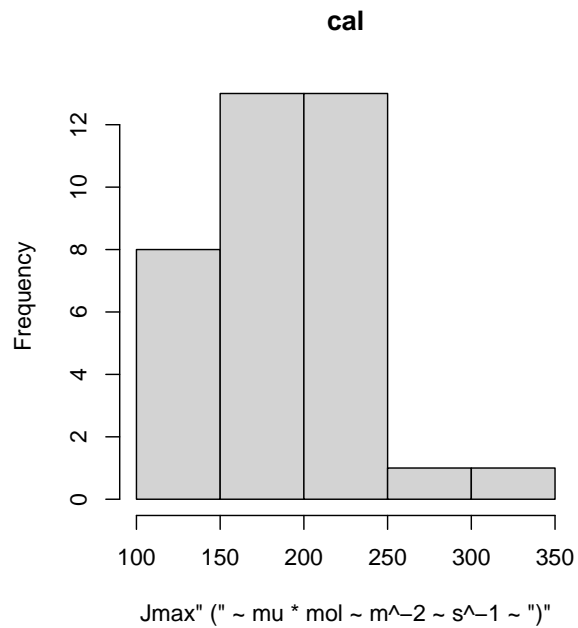
2023-08-08

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

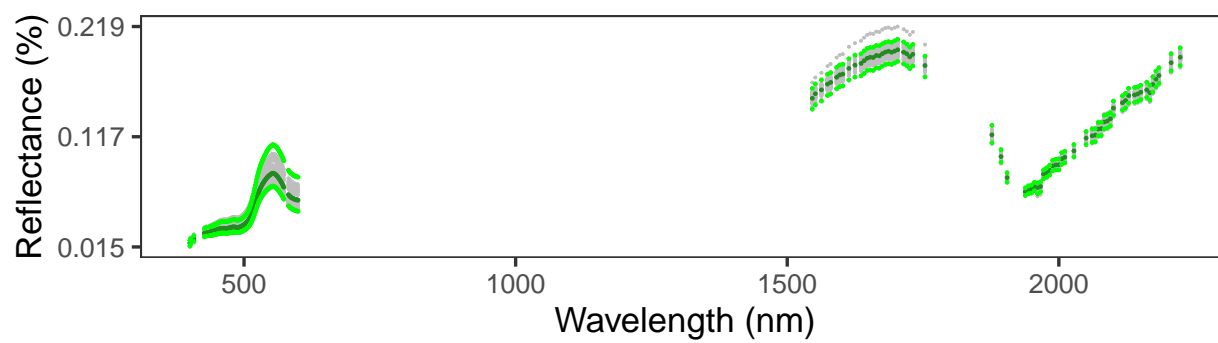
## [1] "909" "933" "927" "942" "918" "947" "926" "906" "939" "946" "924" "940"
## [13] "941" "931" "908" "913" "944" "948" "910" "930" "959" "957" "994" "992"
## [25] "974" "955" "991" "982" "983" "969" "962" "987" "986" "990" "985" "954"

## [1] "923" "929" "932" "934" "935" "938" "956" "963" "989" "993"

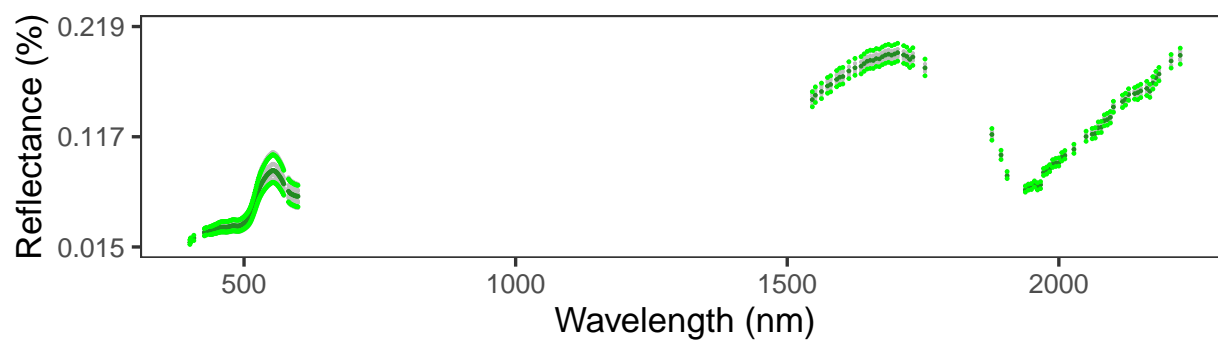
##           value      wv
## 33  0.05671843  439.1664
## 163 0.05618651  599.3645
## 1    0.05613419  400.3933
## 142 0.05607313  573.1947
## 667 0.05596623 2066.9600
## 602 0.05591948 1703.2500
```

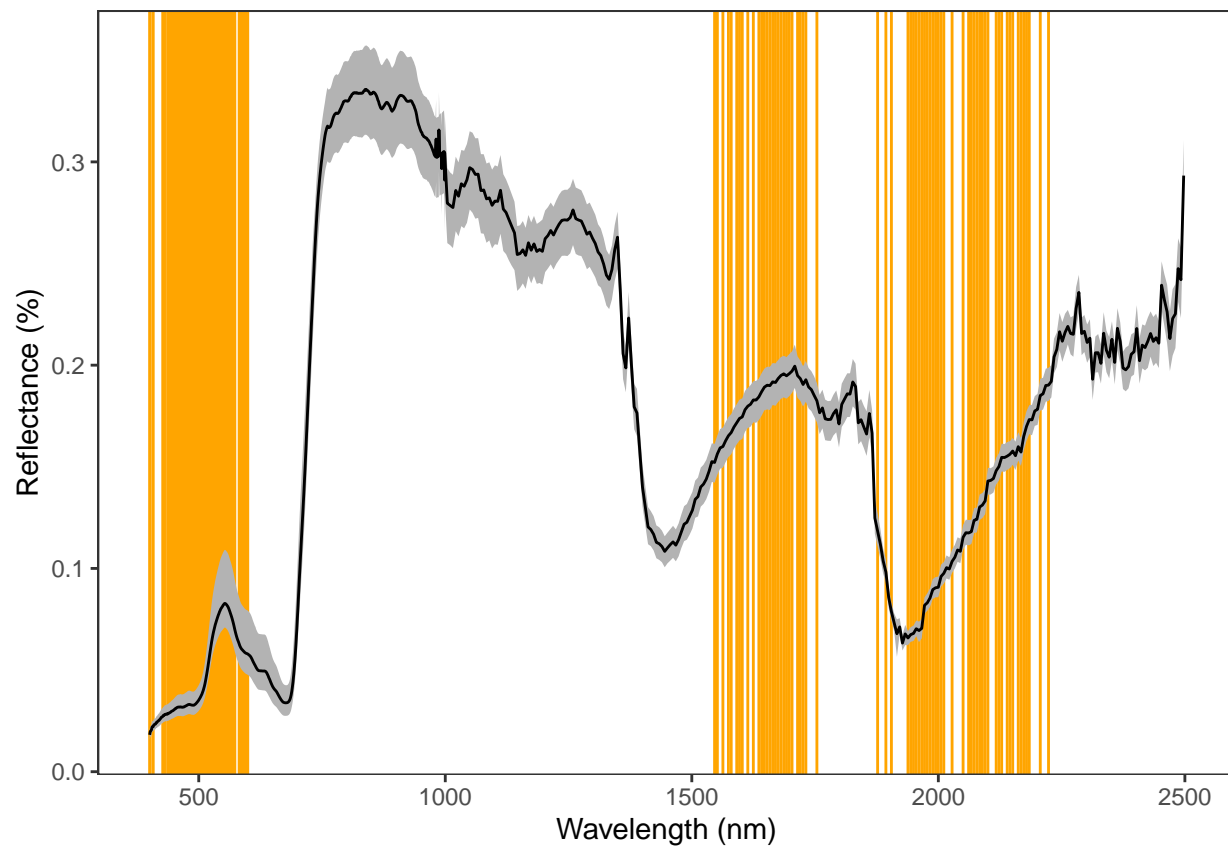


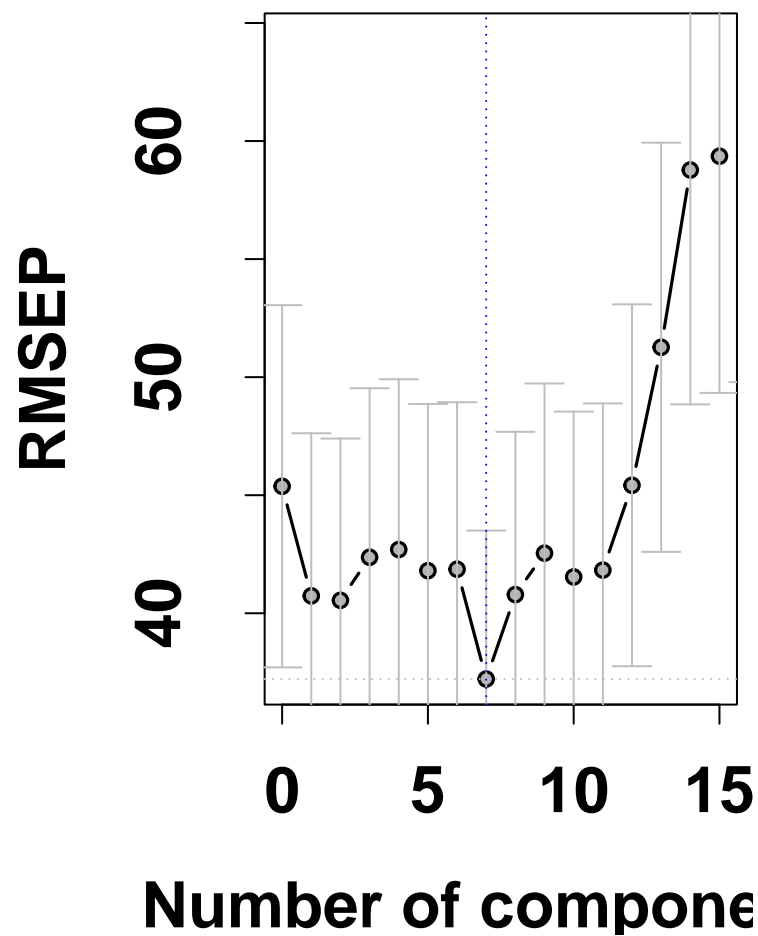
Jmax calibration dataset



Jmax validation dataset

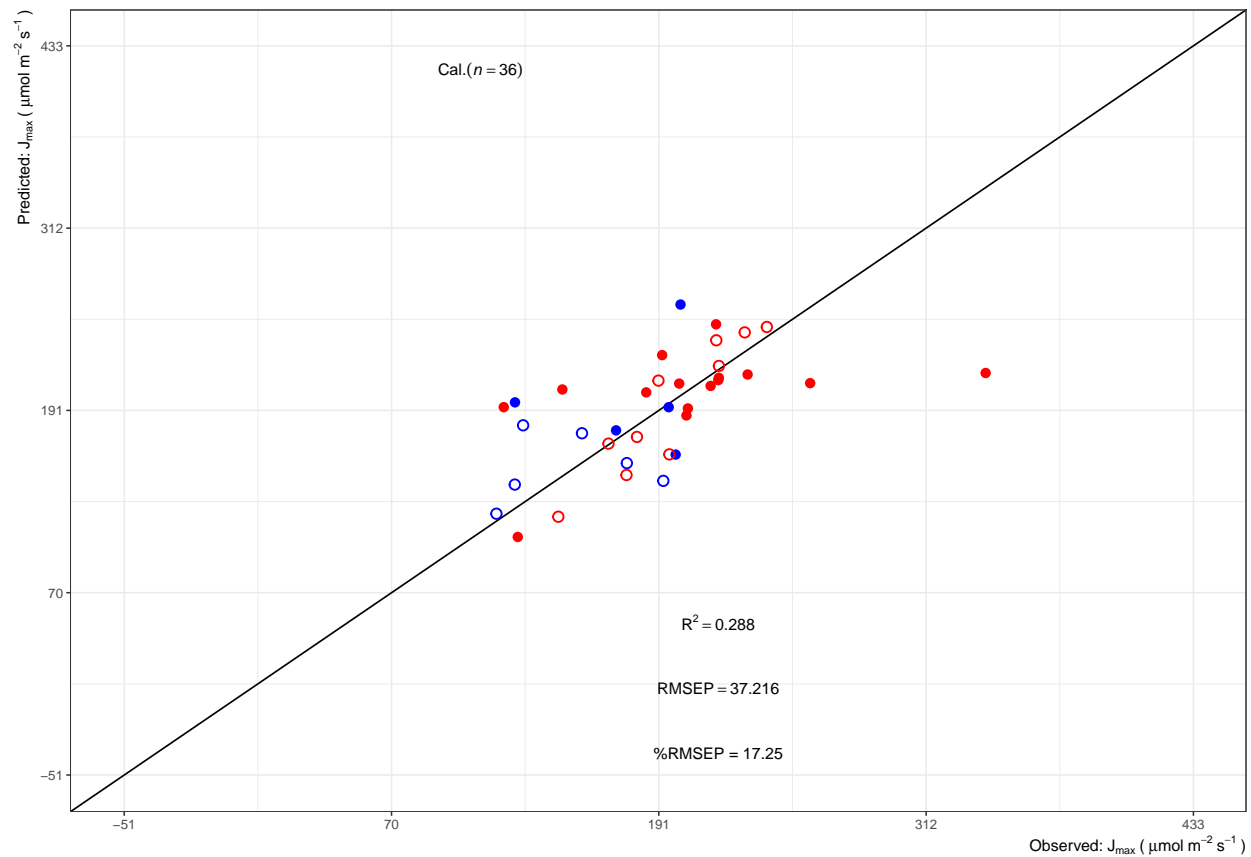


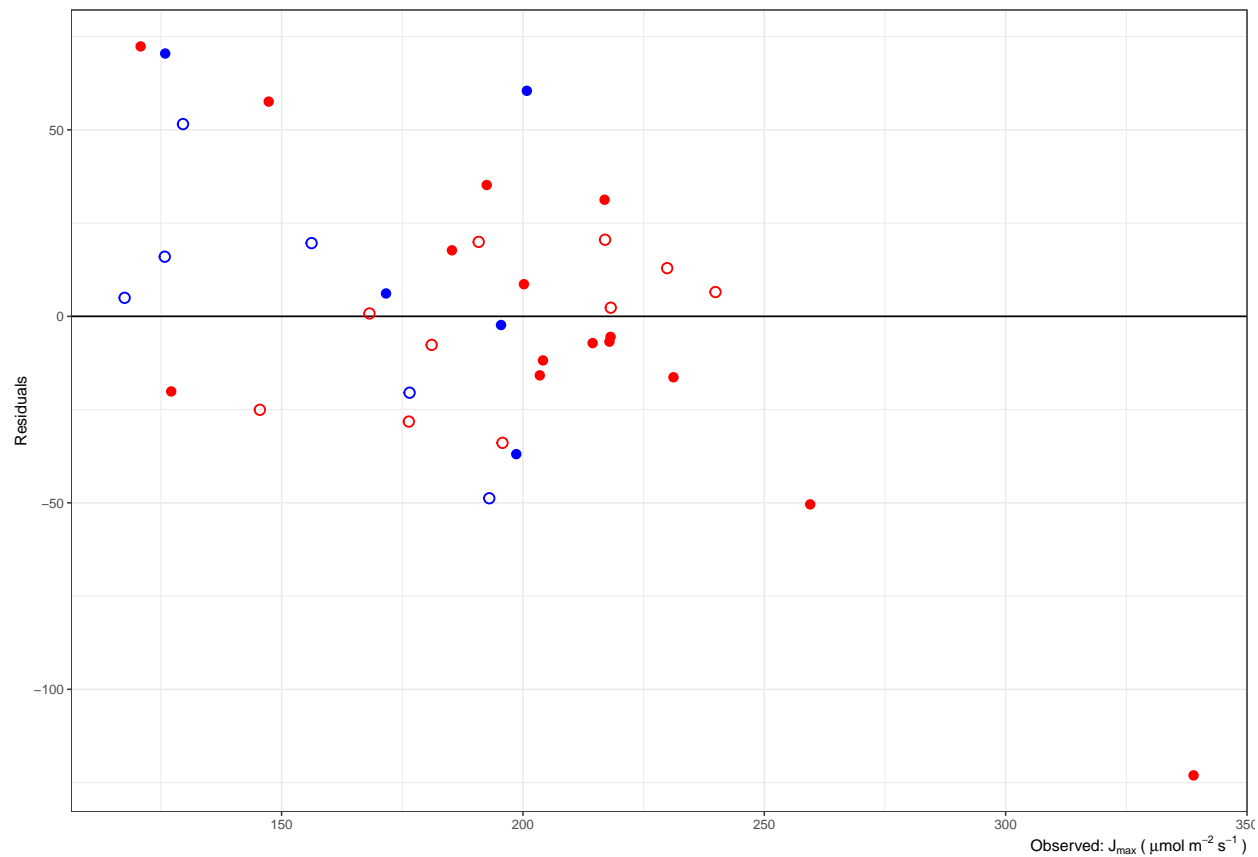


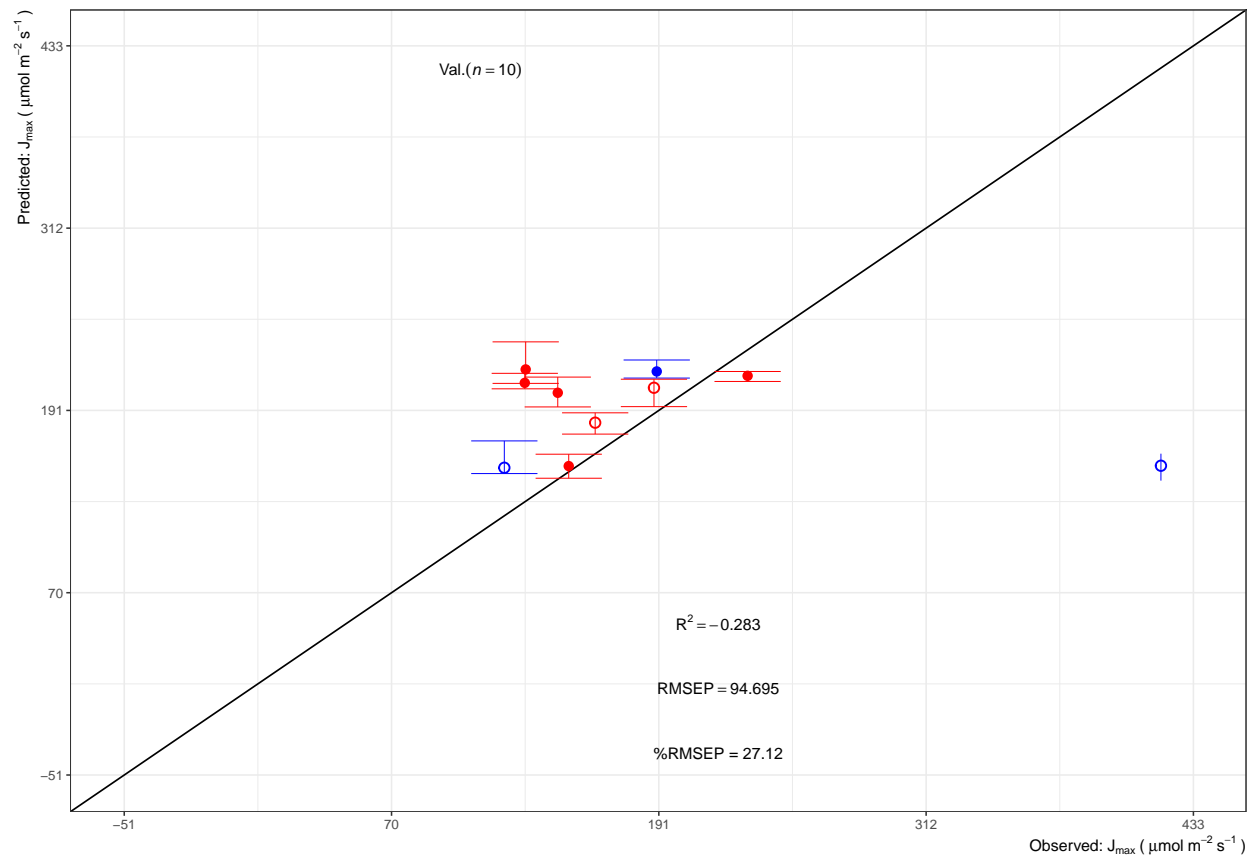


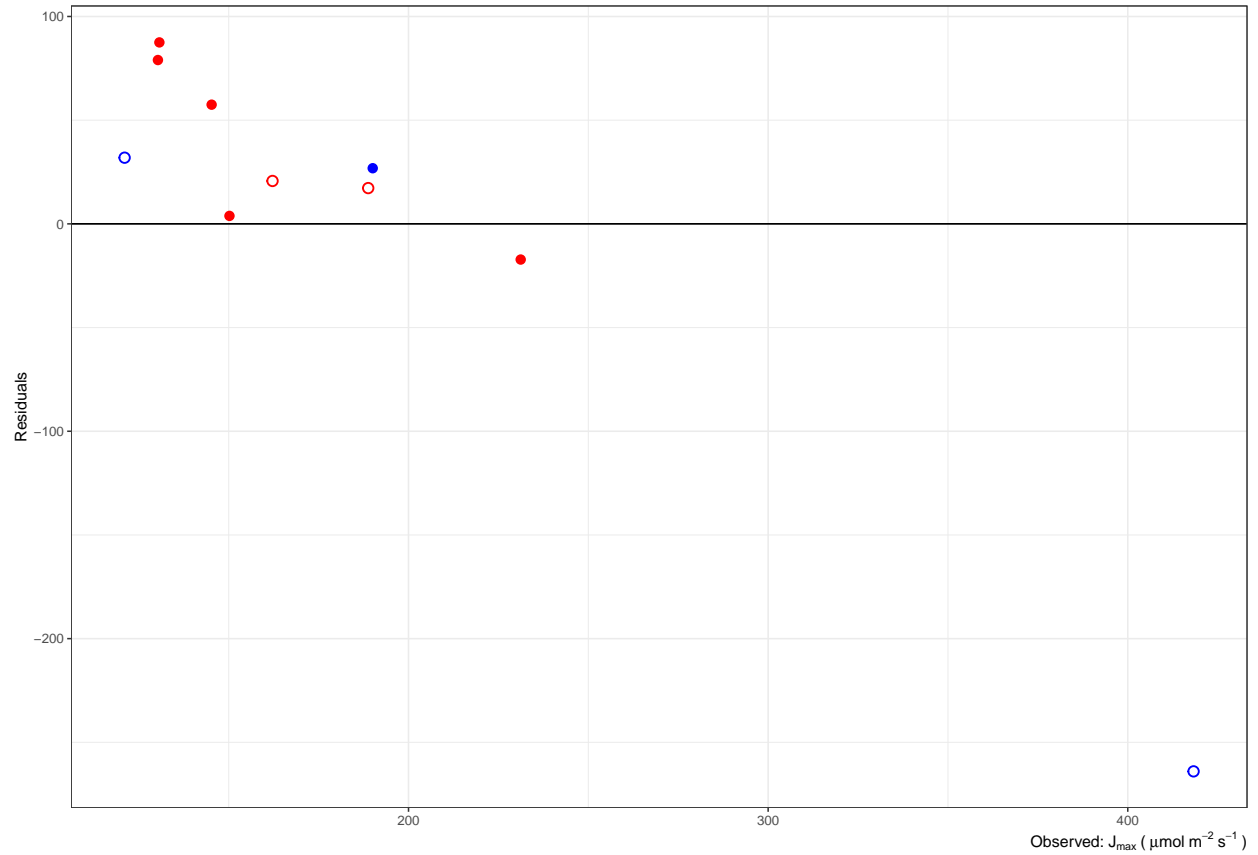
```
## data_set      R2  RMSEP NRMSEP
## 1      cal  0.288 37.216 16.805
## 2      val -0.283 94.695 31.858
```

```
##   Observed Predicted  Residuals Treatment Subpop      uci      lci      upi
## 1 231.1903  213.9790 -17.211316        N1     IND  216.8425  210.2229  412.3220
## 2 130.7234  218.2183  87.494833        N1     IND  236.5104  208.9500  432.6223
## 3 145.2490  202.7175  57.468515        N1     IND  213.1225  193.3323  408.9101
## 4 150.2102  154.0534   3.843207        N1     IND  161.9454  145.9974  357.5279
## 5 130.3127  209.3056  78.992899        N1     IND  215.6331  205.3391  411.1436
## 6 190.0461  216.8765  26.830388        N1    TRJ  224.4836  212.4672  420.0681
##           lpi
## 1  14.743360
## 2  12.838126
## 3  -2.455273
## 4 -49.585135
## 5   9.828604
## 6  16.882718
```









```
##          Iteration Intercept   X2005.47   X2100.5 X511.33808 X510.10745
## Seg 1           1  197.6819 -1127.9700 -2353.182   1570.135   1444.122
## Seg 2           2  280.9251  -958.1547 -2378.686   1539.086   1391.873
## Seg 3           3  139.1313 -1223.9528 -2184.341   1597.127   1462.965
## Seg 4           4  124.0012 -1141.3968 -3138.178   1386.398   1289.643
## Seg 5           5  554.9584 -1097.8358 -1420.813   1255.371   1147.147
## Seg 6           6  213.6408 -1146.0394 -2605.915   1615.395   1484.998
```

```
##          coefs
## 2005.47  -1112.561
## 2100.5   -2168.887
## 511.33808 1599.225
## 510.10745 1470.962
## 512.56898 1691.898
## 513.80012 1838.071
```