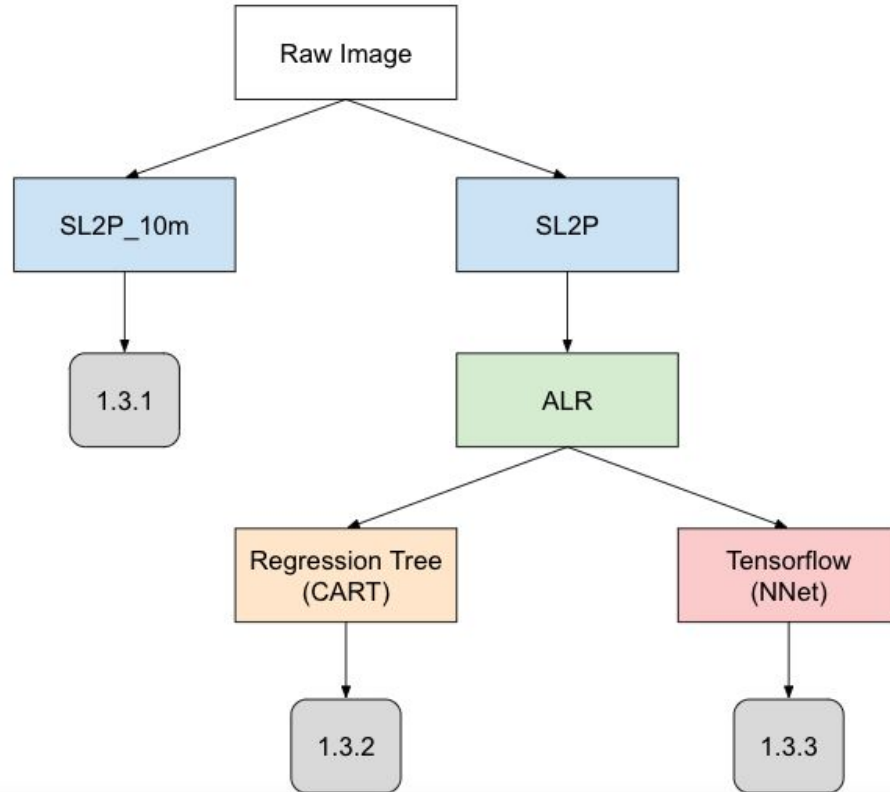


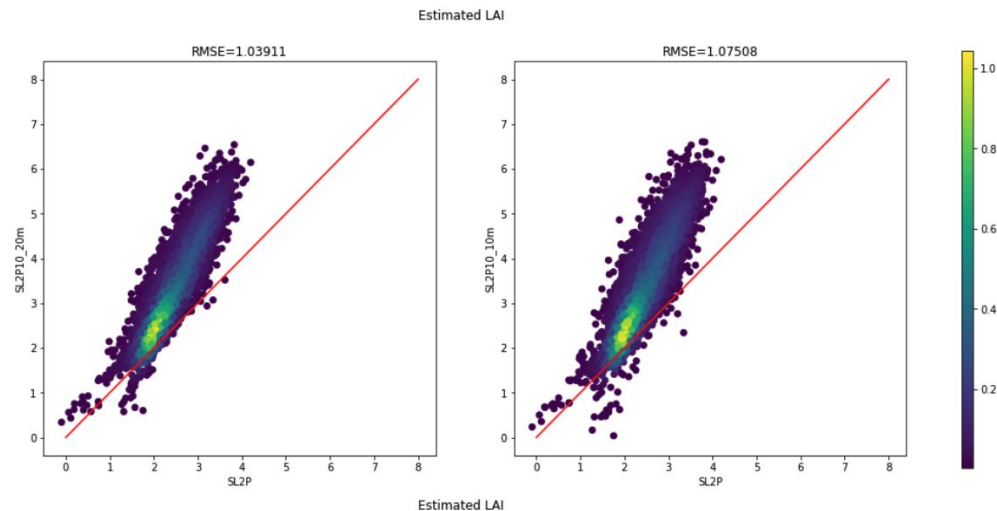
Sentinel2 ALR Results

Kate Harvey
(Last Updated November 2021)

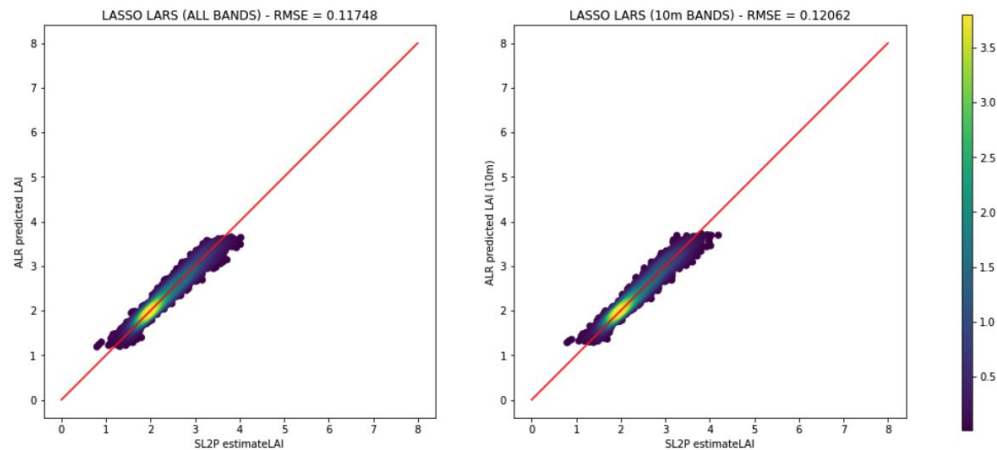
Image processing workflow



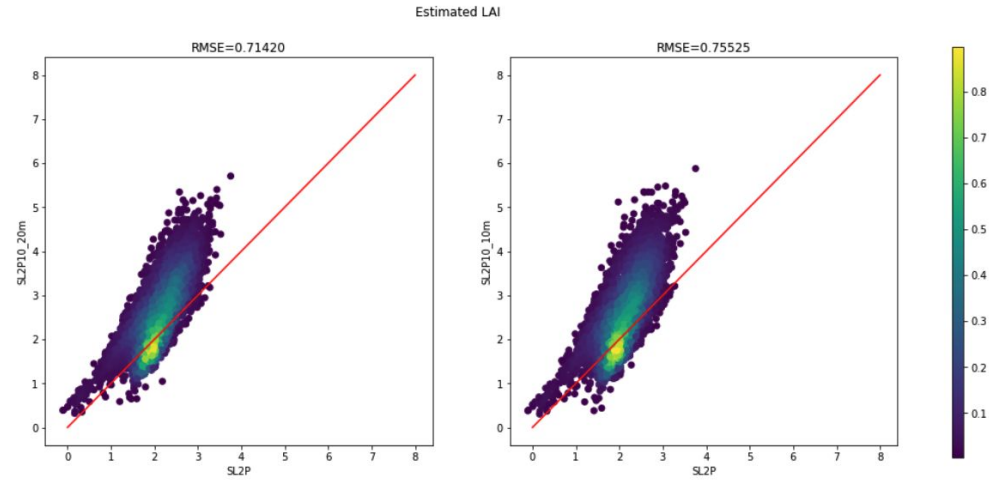
SL2P10 Outputs



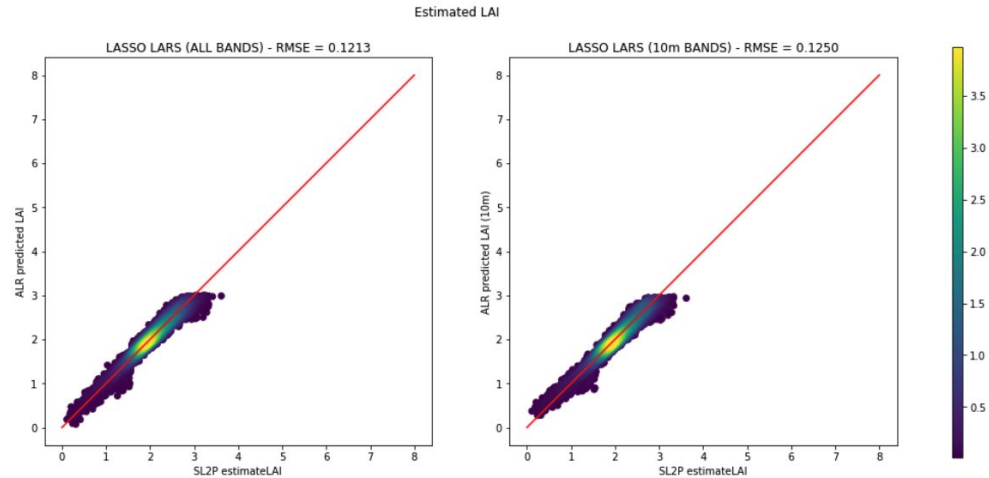
ALR + NNET Outputs



SL2P Outputs

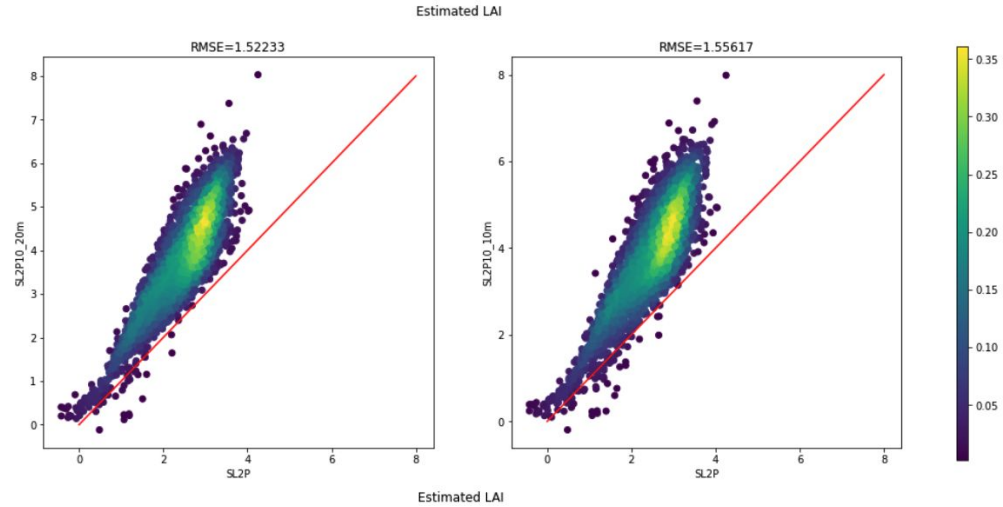


ALR Outputs

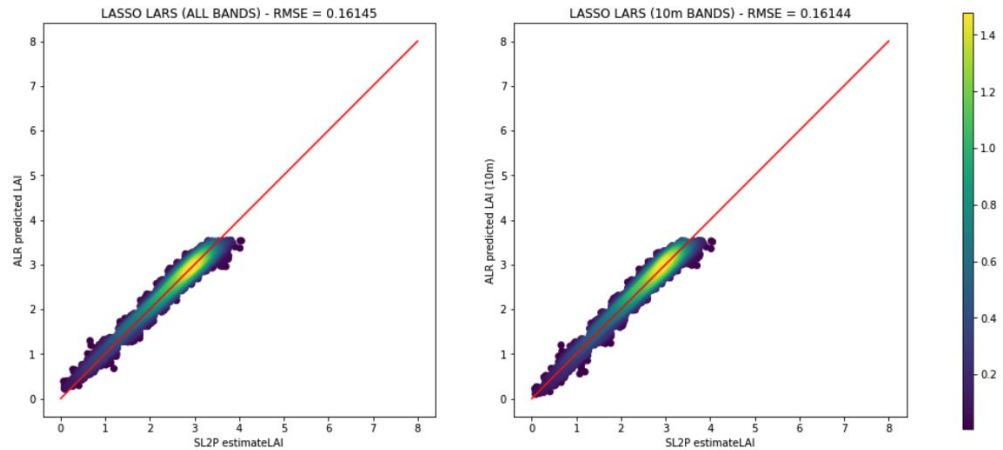


Fox Creek, AB

SL2P Outputs



ALR Outputs

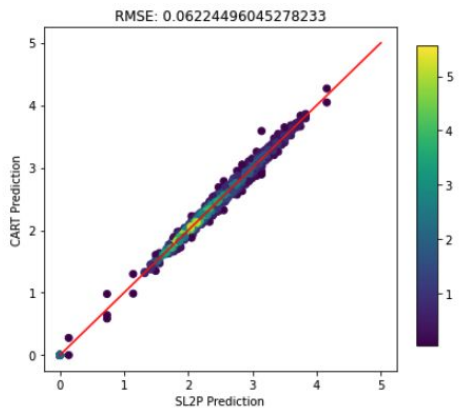
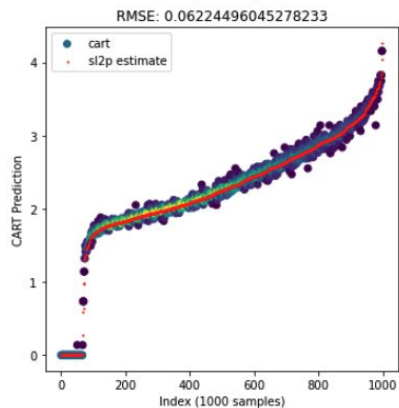
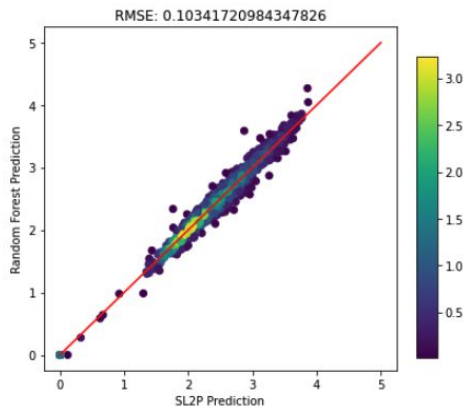
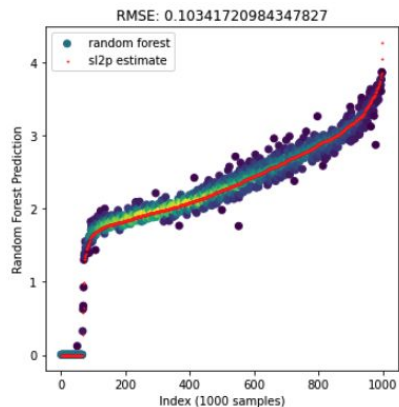


Kouchibouguac, NB



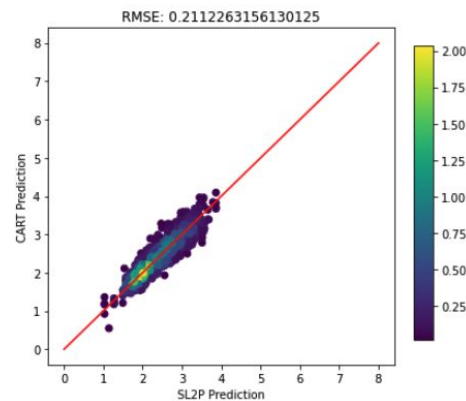
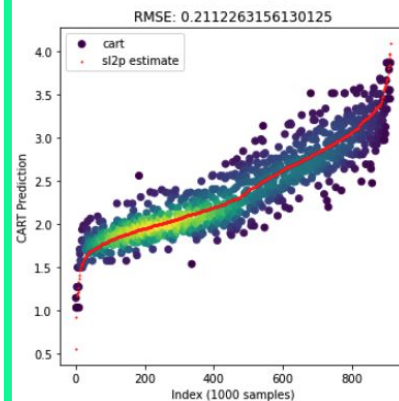
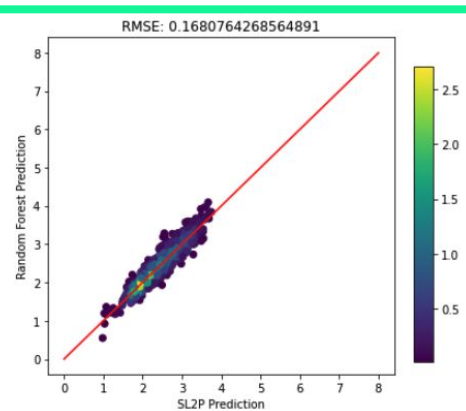
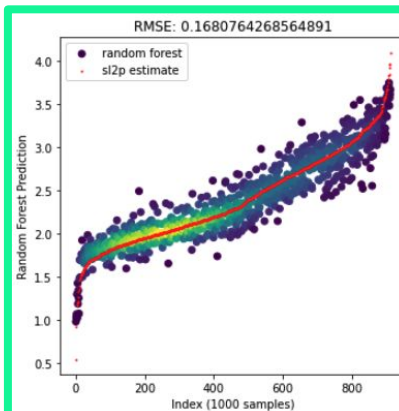
Regression Trees

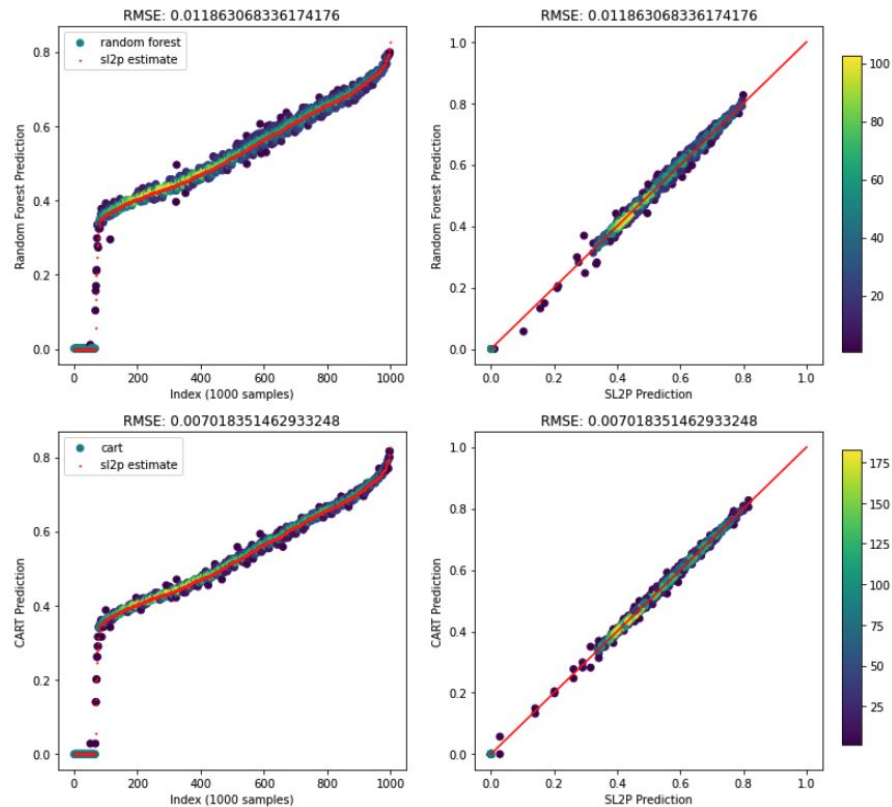
Random Forest vs. CART



Geraldton – LAI

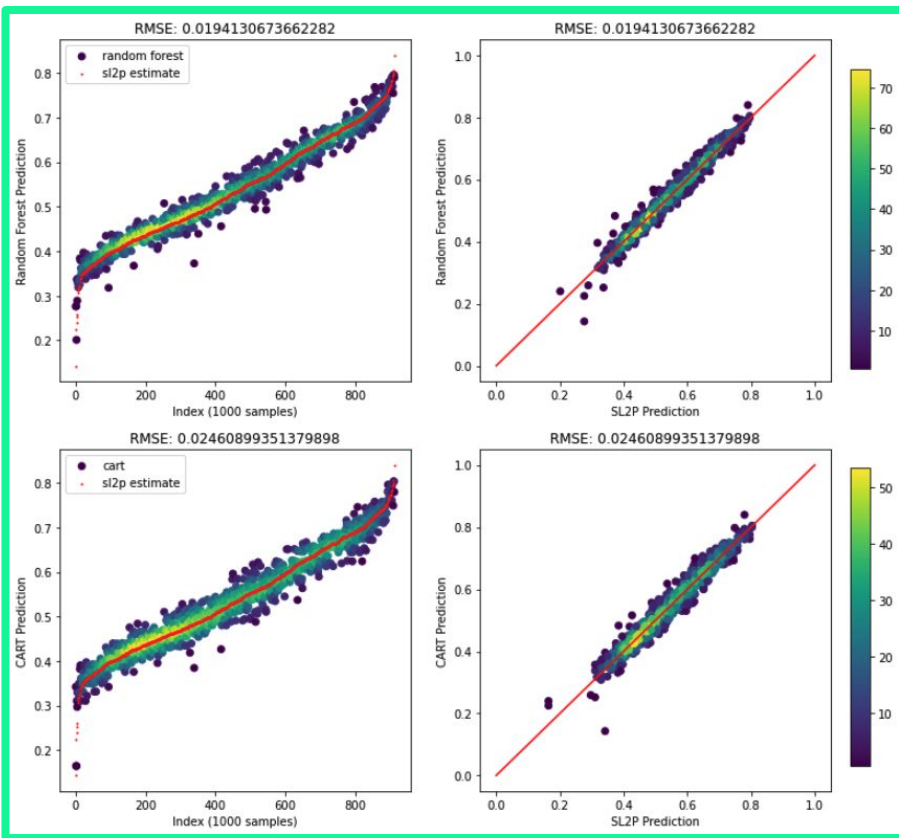
Hold-out cross-validation

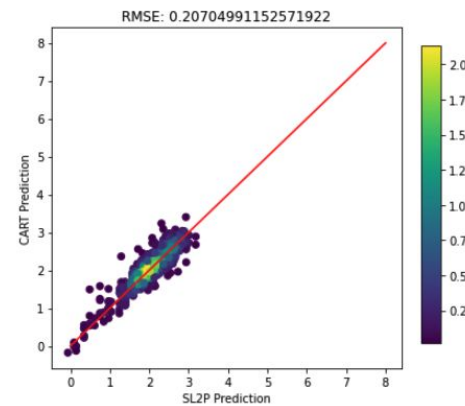
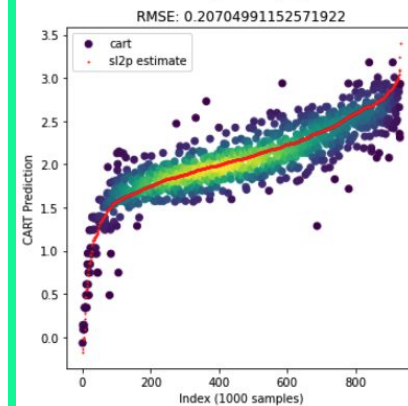
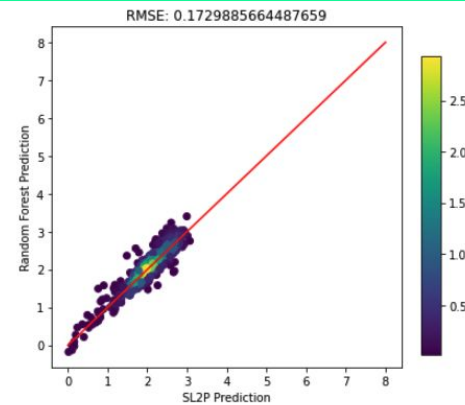
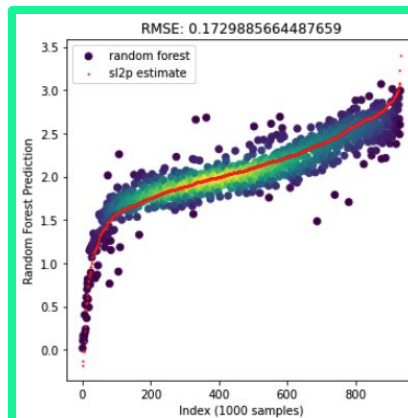
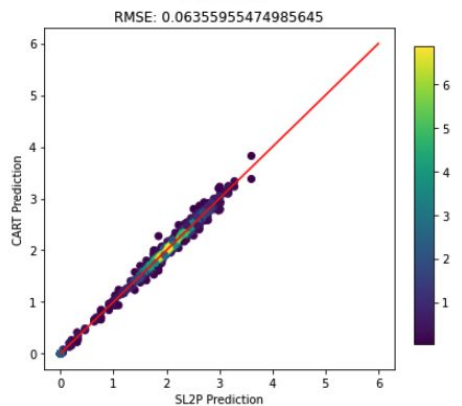
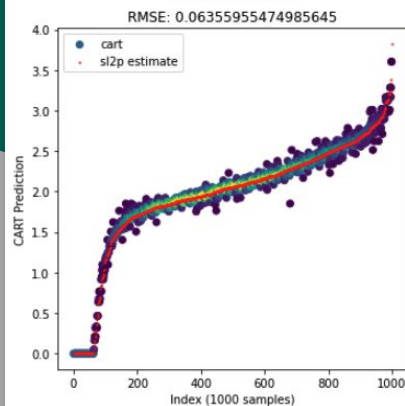
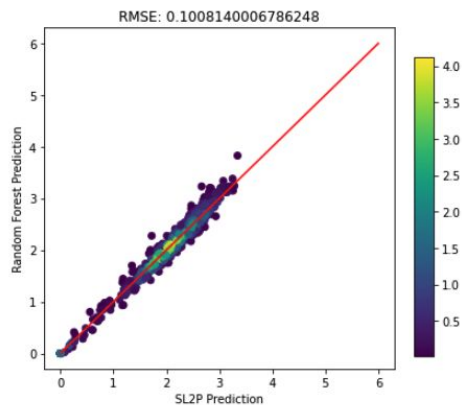
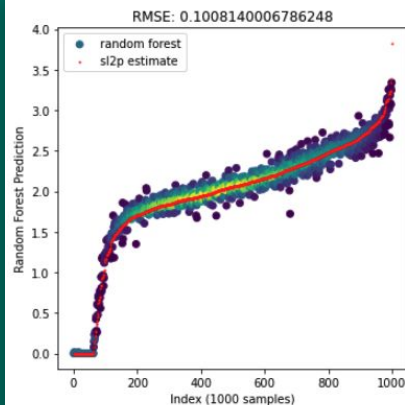




Geraldton – fCOVER

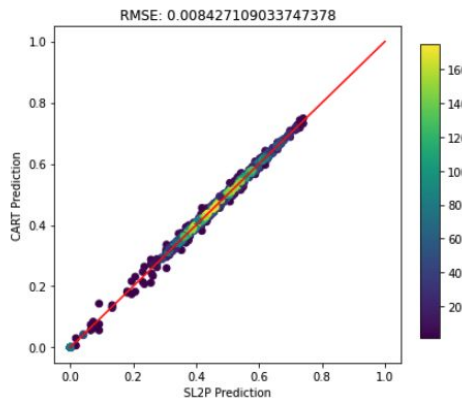
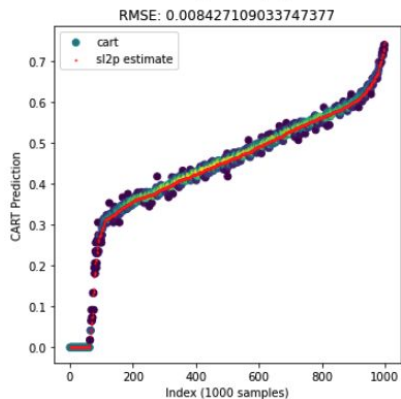
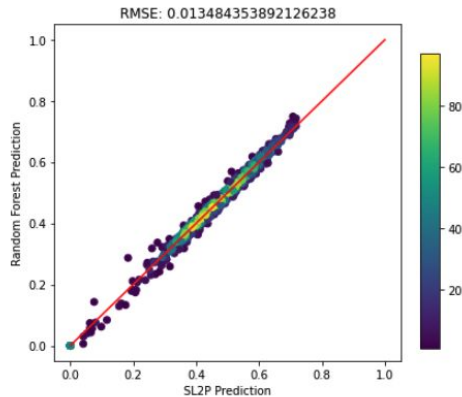
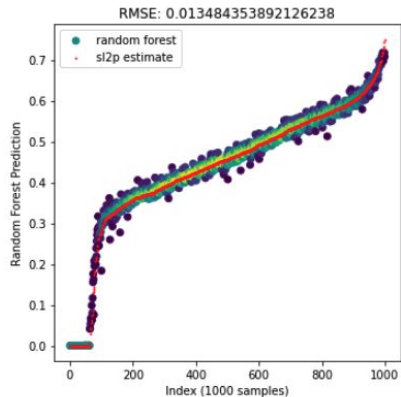
Hold-out cross-validation



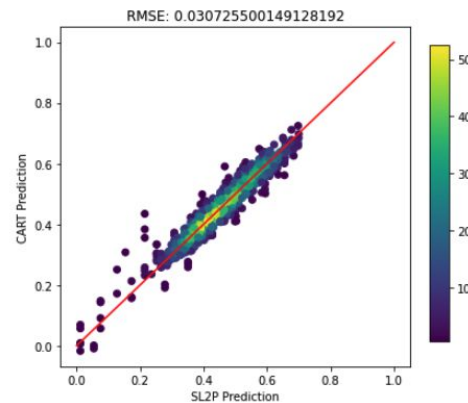
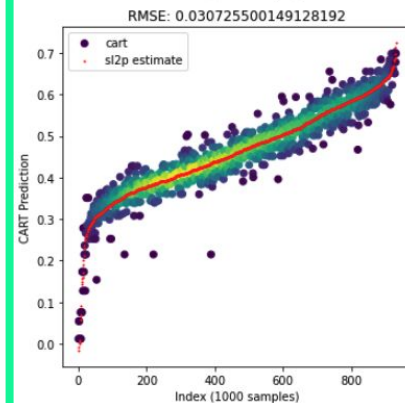
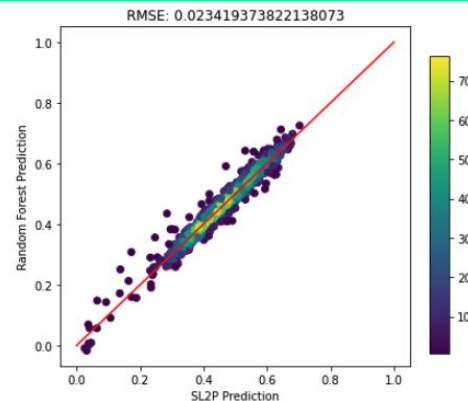
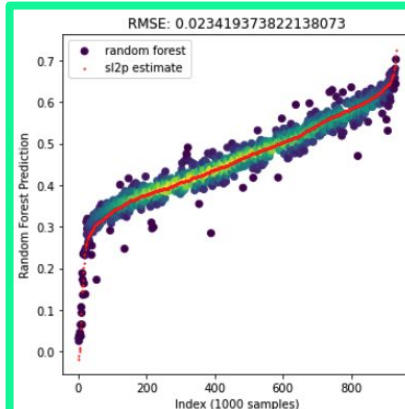


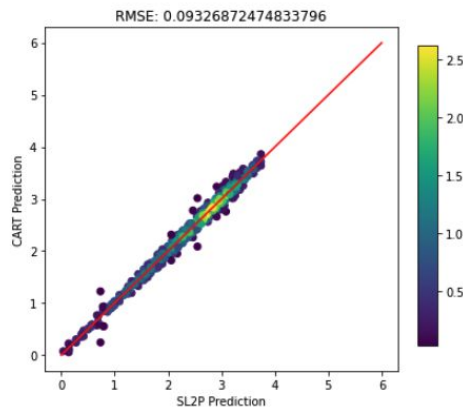
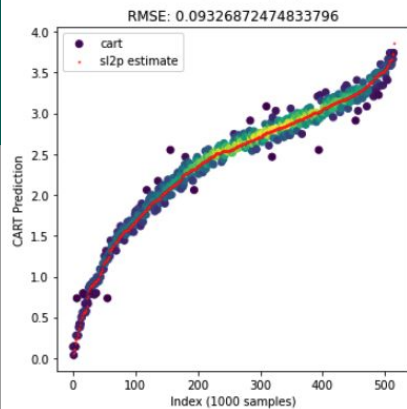
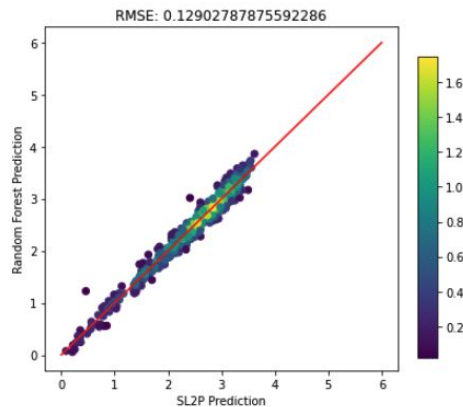
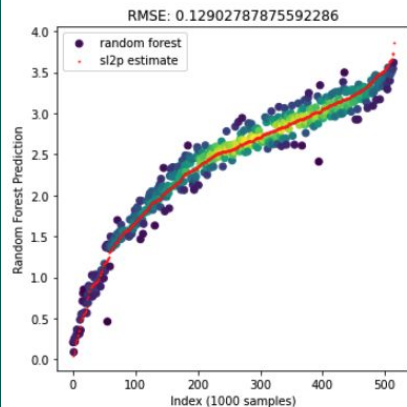
Hold-out cross-validation

Fox Creek – LAI

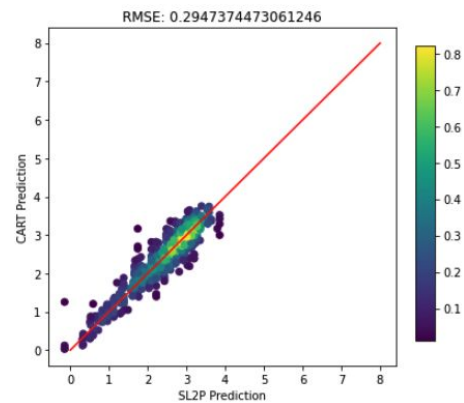
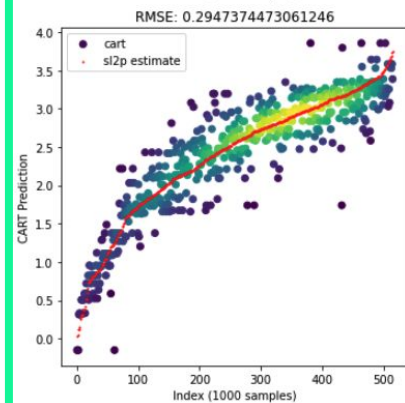
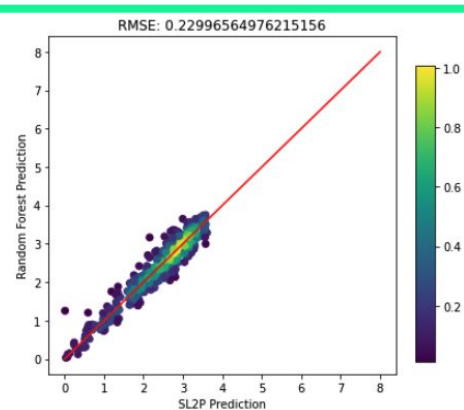
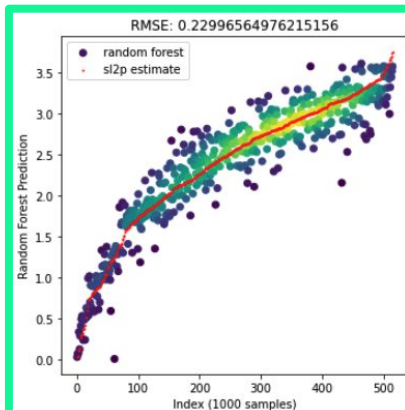


Hold-out cross-validation

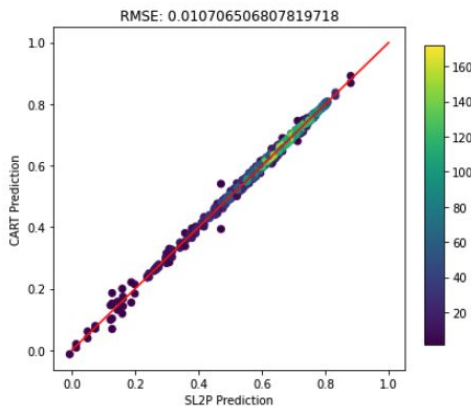
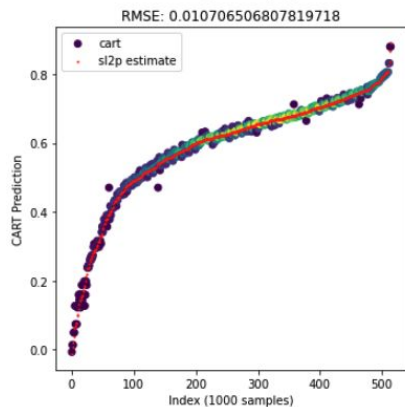
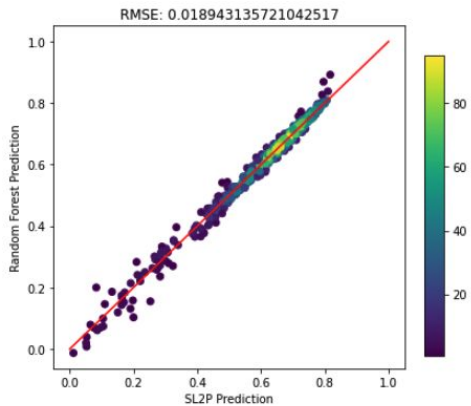
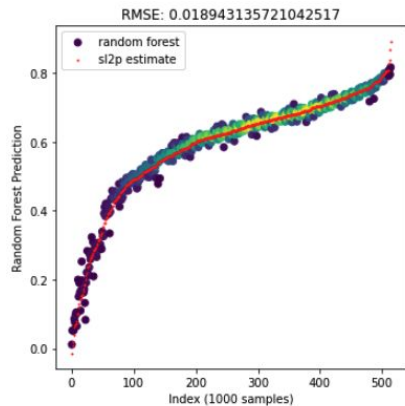




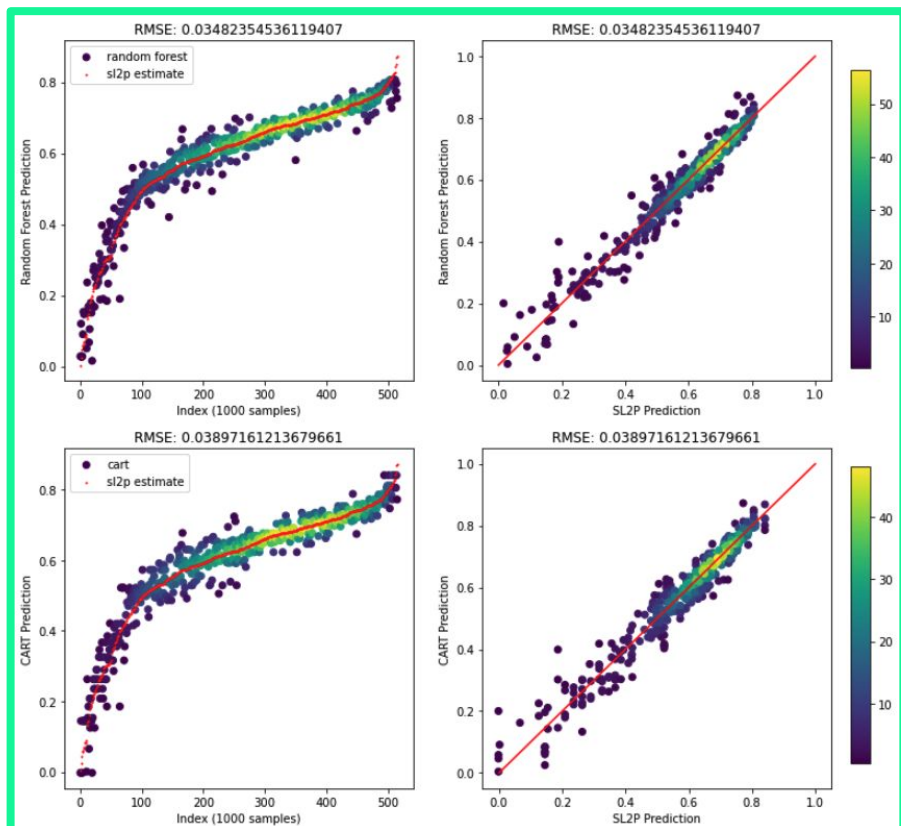
Hold-out cross-validation



Kouchibouguac – LAI

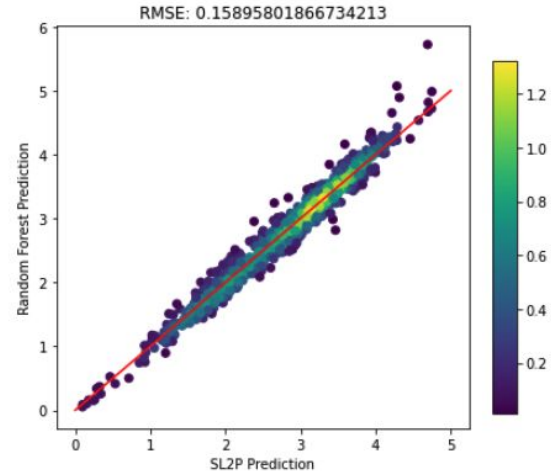
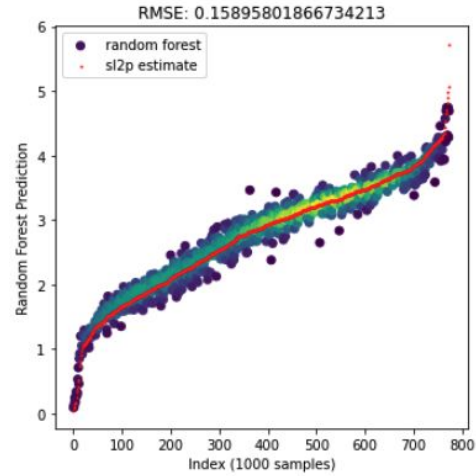


Hold-out cross-validation

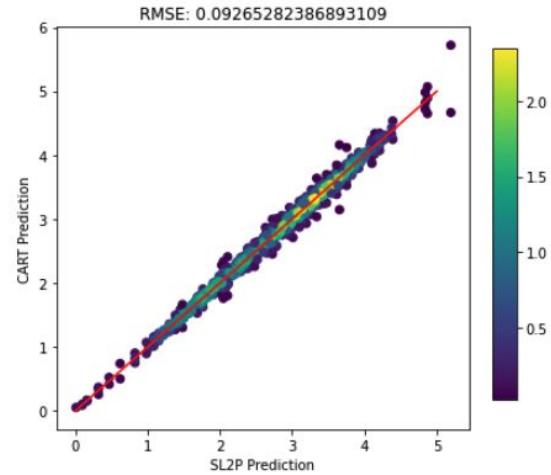
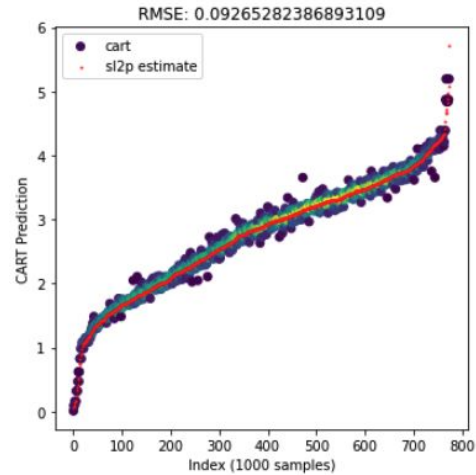


Kouchibouguac – fCOVER

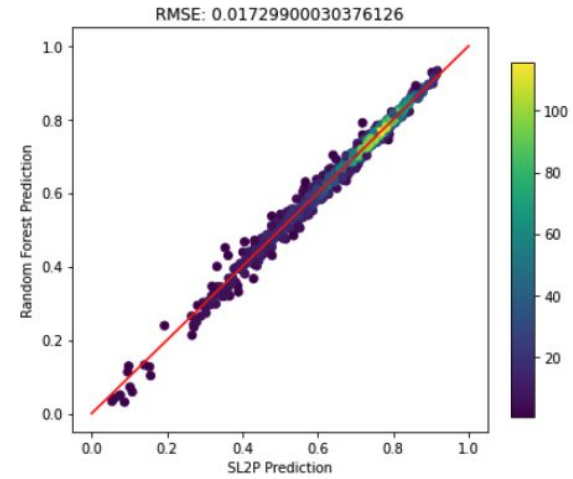
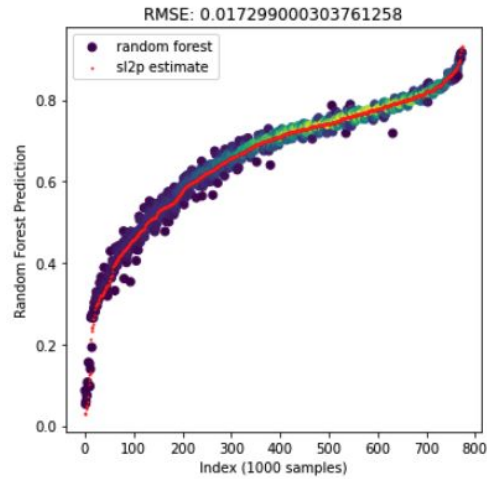
Random Forest



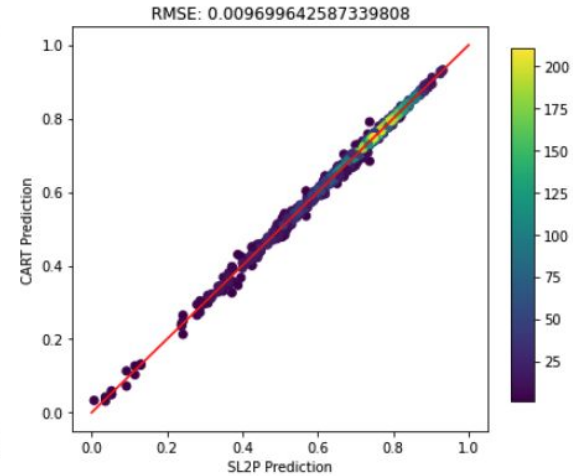
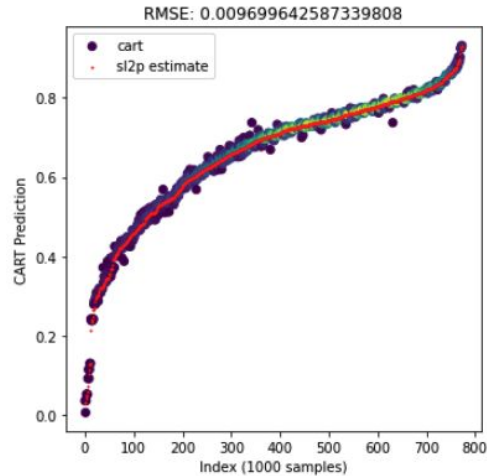
CART



Random Forest



CART



Ottawa – fCOVER

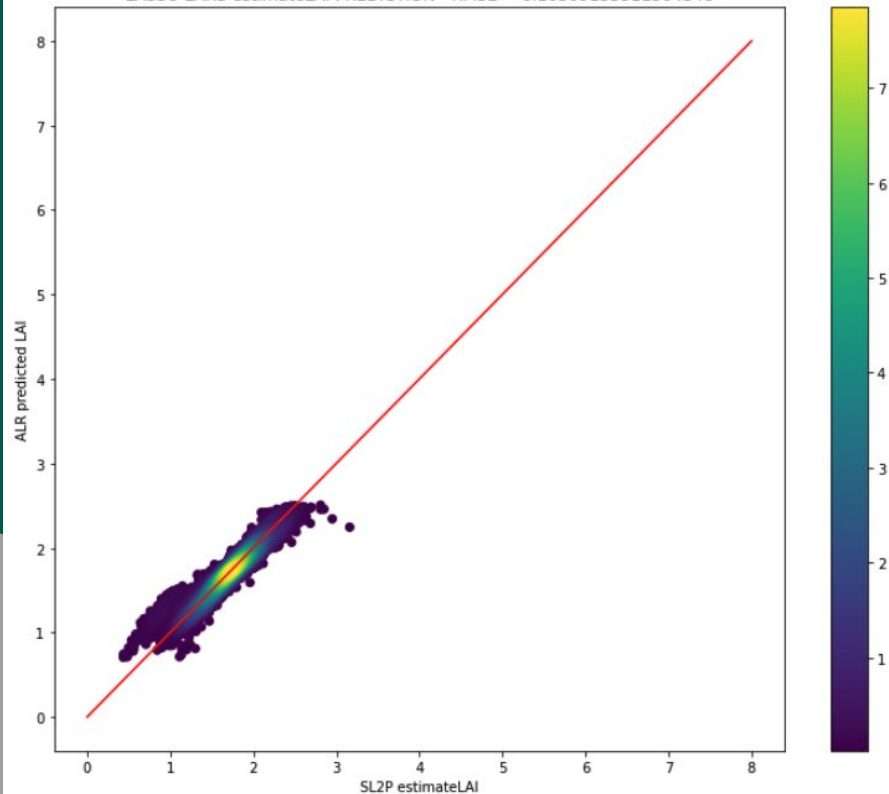


Additional Test Sites

ALR and Regression Tree outputs

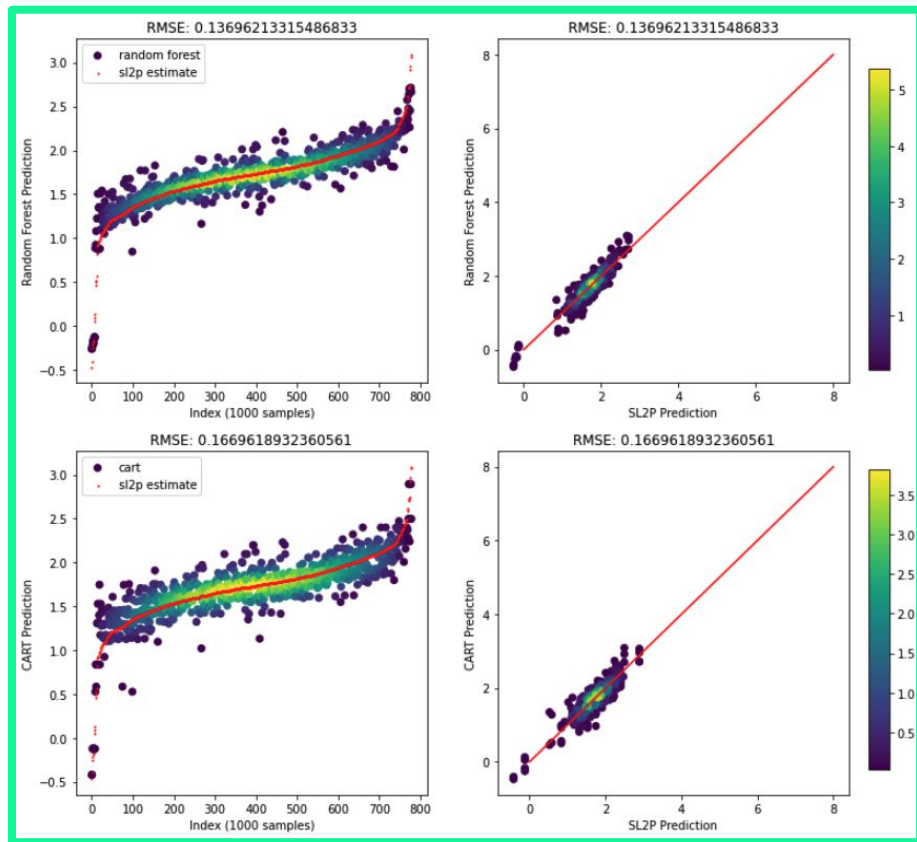


LASSO LARS estimate LAI PREDICTION - RMSE = 0.10309133311504348

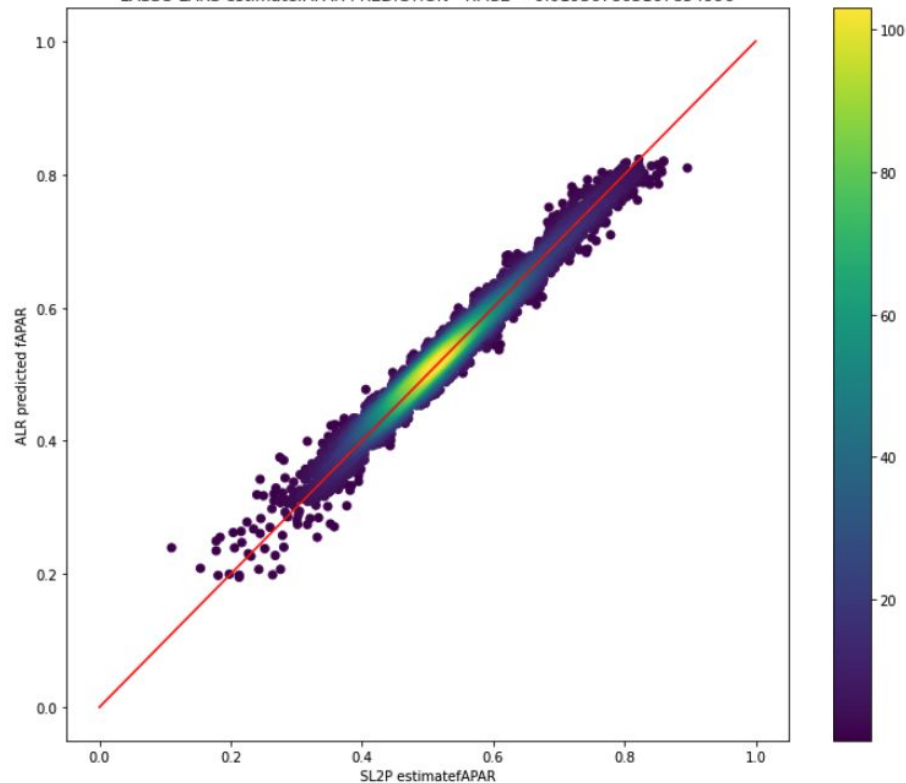


Wabush – LAI

Hold-out cross-validation



LASSO LARS estimate fAPAR PREDICTION - RMSE = 0.019367863167854996



Queen Charlotte – fAPAR

