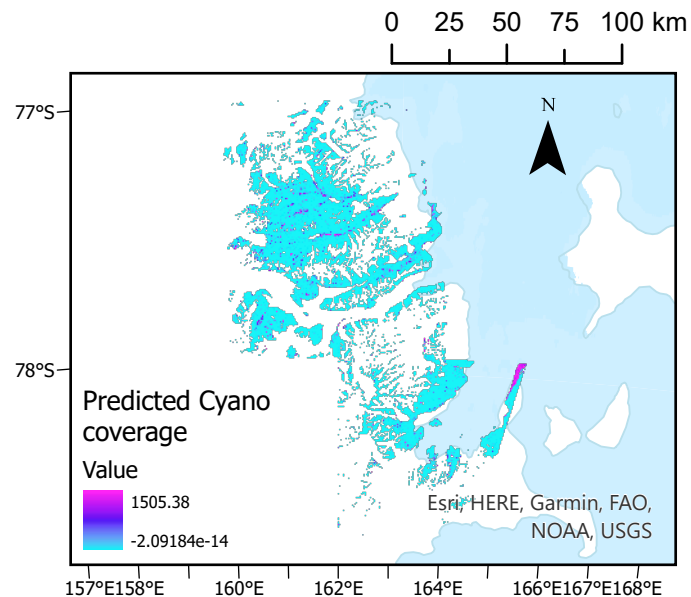
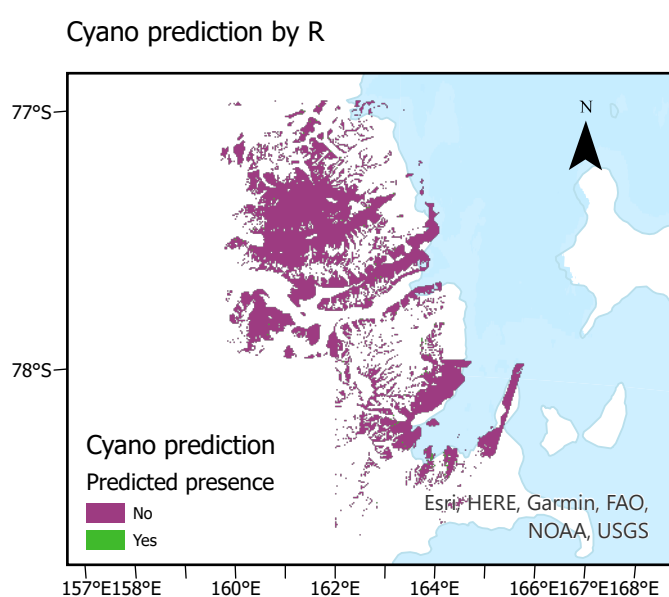
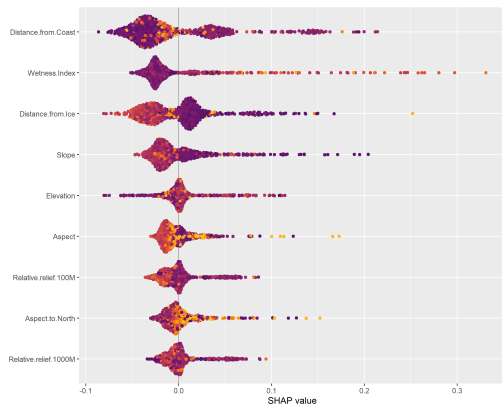


Cyano prediction by R



SHAP value for CYANO classification



Call:
randomForest(formula = bio ~ ., data = train, ntree = 1000, type = "c")

Type of random forest: classification

Number of trees: 1000

No. of variables tried at each split: 3

OOB estimate of error rate: 10.33%

Confusion matrix:
0 1 class error
0.965 1 0.0122778
1 60 13 0.82191781

Confusion Matrix and Statistics

	Actual \ Predicted	0	1	Sum
Predicted 0	965	60	13	978
Predicted 1	1	60	13	73
Sum	966	120	26	1000

Kappa: 0.9844

Moran's I Test P-Value: 0.4795

Summary: 1000

Var: 1.0000

Red: 0.0000

Blue: 0.0000

Green: 0.0000

Yellow: 0.0000

Orange: 0.0000

Predicted Class: 0

Confusion Matrix and Statistics

	Actual \ Predicted	0	1	Sum
Predicted 0	965	60	13	978
Predicted 1	1	60	13	73
Sum	966	120	26	1000

Kappa: 0.9844

Moran's I Test P-Value: 0.4795

Summary: 1000

Var: 1.0000

Red: 0.0000

Blue: 0.0000

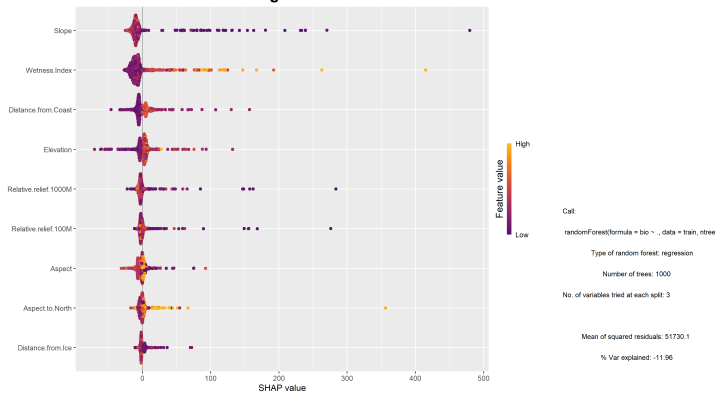
Green: 0.0000

Yellow: 0.0000

Orange: 0.0000

Predicted Class: 0

SHAP value for CYANO regression



Call:
randomForest(formula = bio ~ ., data = train, ntree = 1000, type = "r")

Type of random forest: regression

Number of trees: 1000

No. of variables tried at each split: 3

Mean of squared residuals: 51730.1

% Var explained: 11.96