Appendix S3. Response curve and model predictor importance graphs for all Hawaiian forest bird species models.

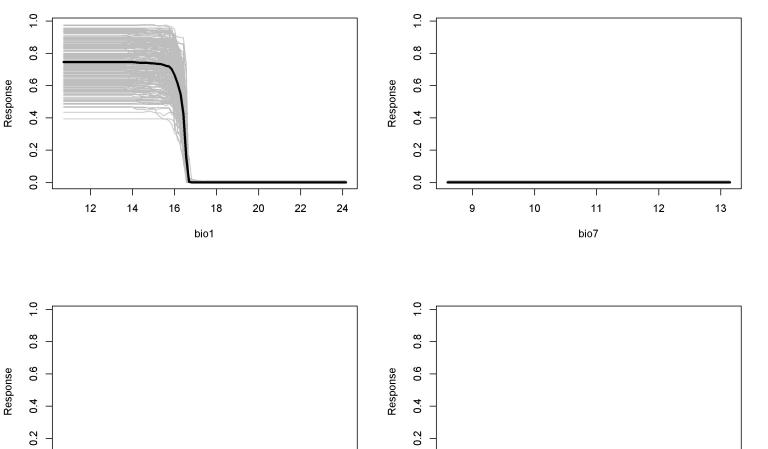
First section of appendix includes species response curves for all individual species with a curve for each model run in grey and the mean response curve in black. The second section of the appendix includes predictor importance graphs for all species and modeling approaches. We use bioclim variable names for all predictors in all included graphs: mean annual temperature (**Bio1**), mean annual precipitation (**Bio12**), temperature annual range (**Bio7**), and precipitation seasonality (**Bio15**). Predictor importance graphs were generated using the lopt_var_importance_graph.R script in repository. The response curves were generated using the lopt_BM2_FB_SDM_response_curves.r script.

Akekee response curves GBM all vars

0.0

bio12

GBM modeled response for Akekee

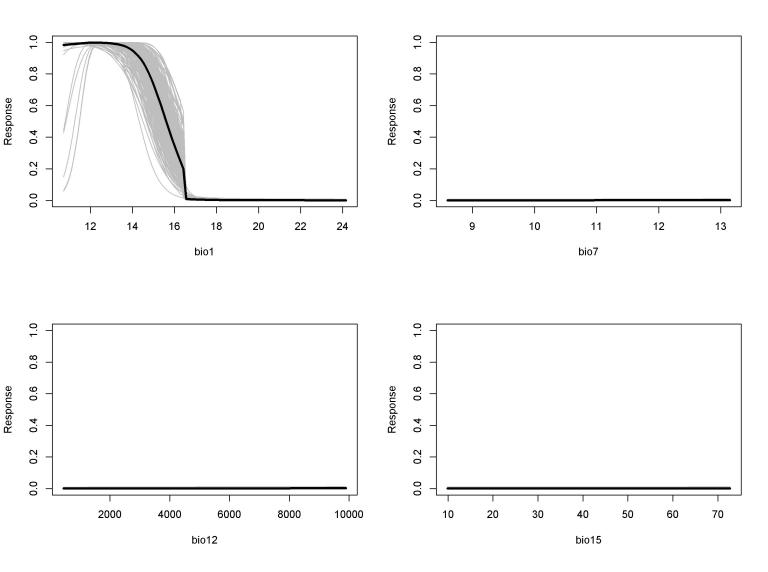


0.0

bio15

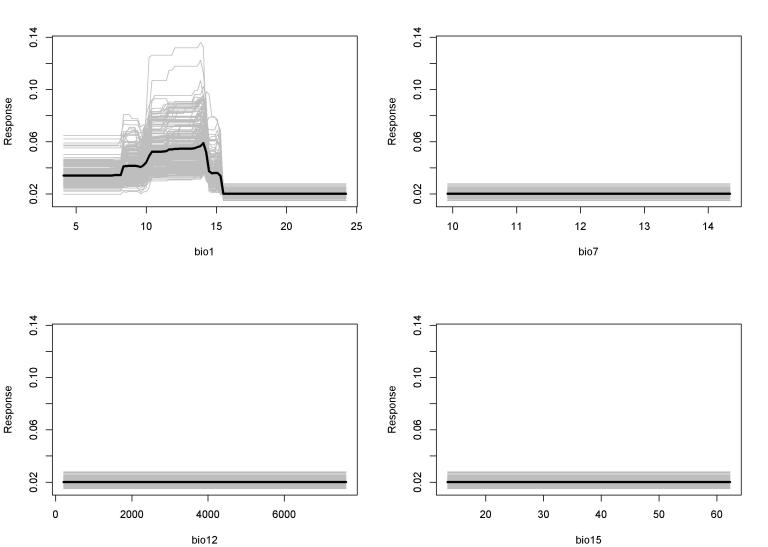
Akekee response curves MAXENT all vars

MAXENT modeled response for Akekee



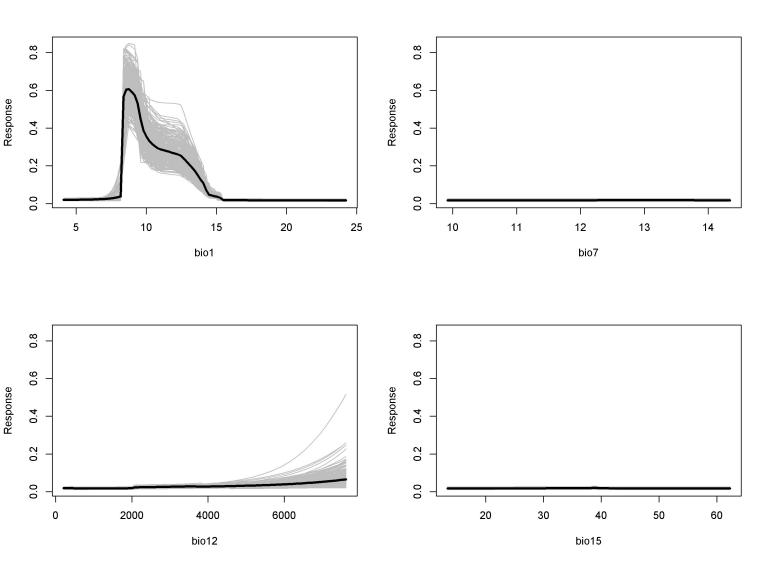
Akiapolauu response curves GBM all vars

GBM modeled response for Akiapolauu



Akiapolauu response curves MAXENT all vars

MAXENT modeled response for Akiapolauu

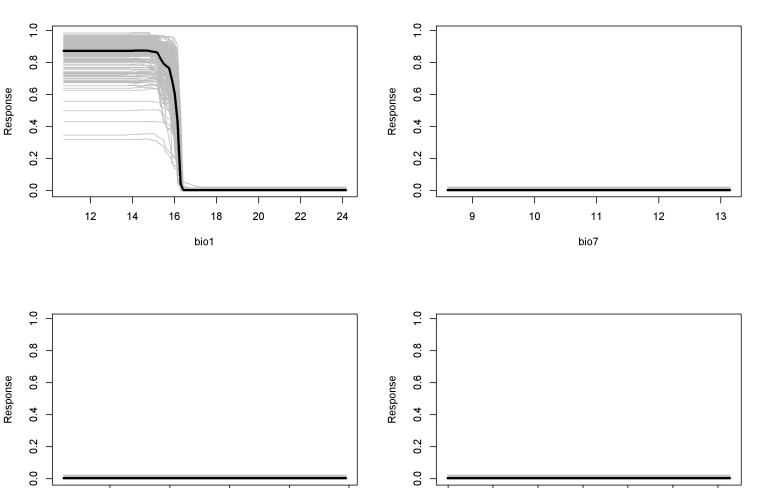


Akikiki response curves GBM all vars

bio12

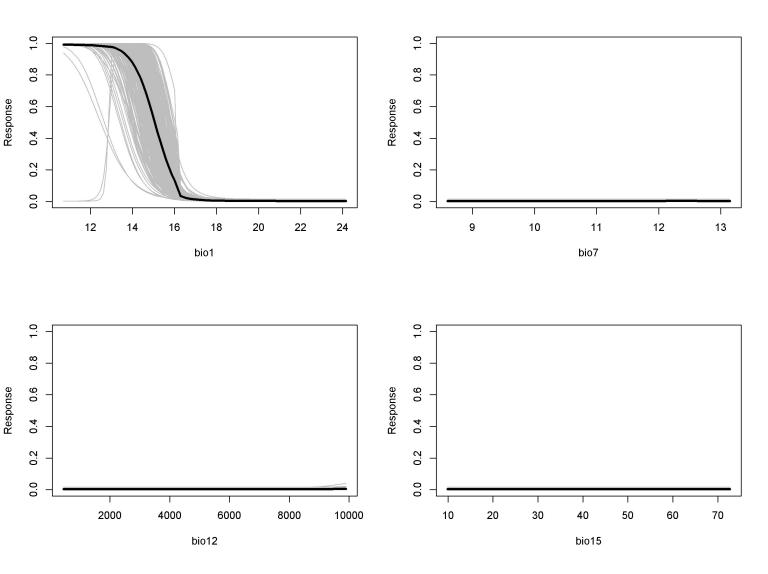
bio15

GBM modeled response for Akikiki



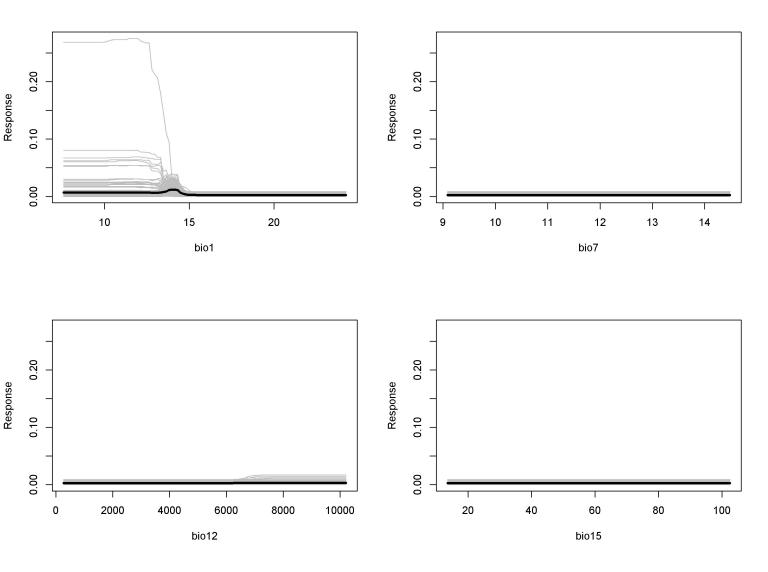
Akikiki response curves MAXENT all vars

MAXENT modeled response for Akikiki



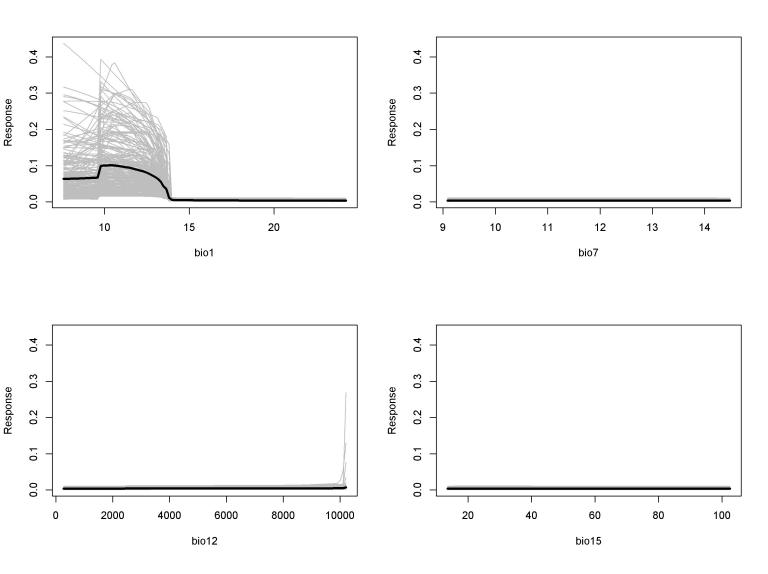
Akohekohe response curves GBM all vars

GBM modeled response for Akohekohe



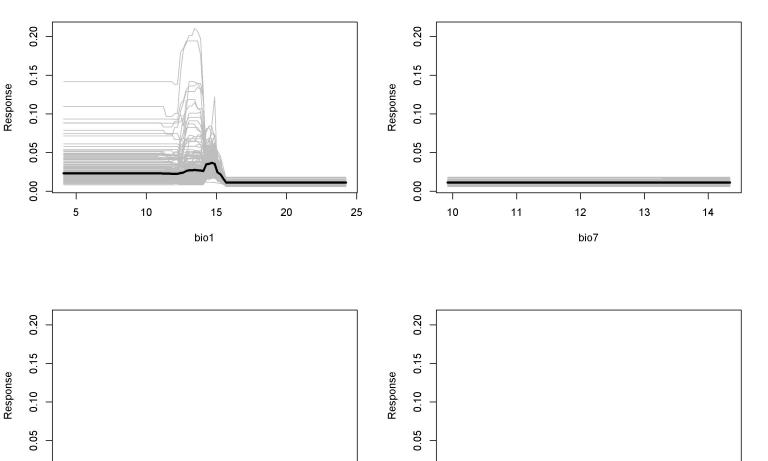
Akohekohe response curves MAXENT all vars

MAXENT modeled response for Akohekohe



Hawaii.Akepa response curves GBM all vars

GBM modeled response for Hawaii. Akepa



0.00

20

30

40

bio15

50

60

0.00

0

2000

4000

bio12

6000

0.0

0

2000

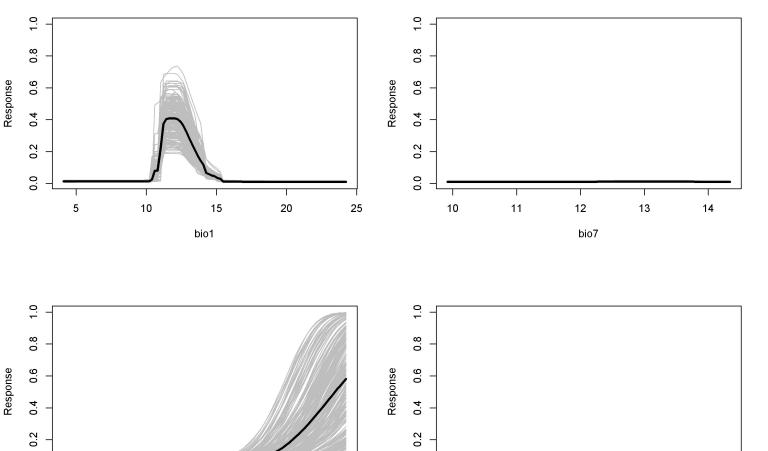
4000

bio12

6000

Hawaii. Akepa response curves MAXENT all vars

MAXENT modeled response for Hawaii. Akepa



0.0

20

30

40

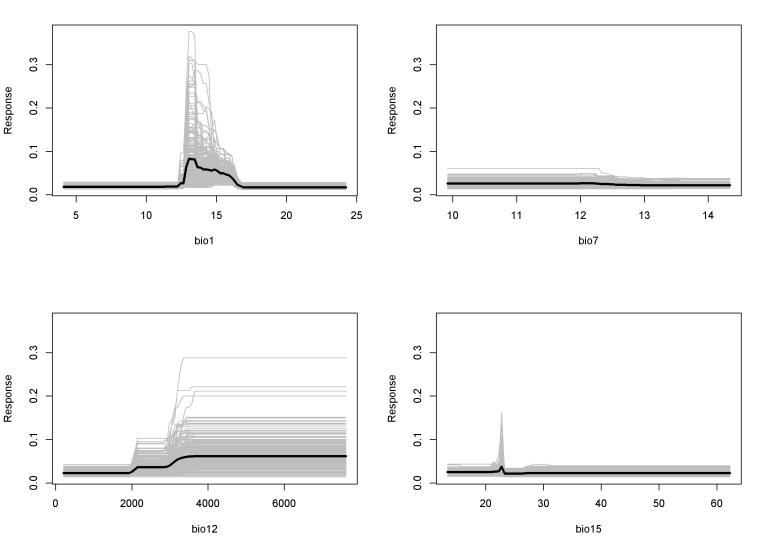
bio15

50

60

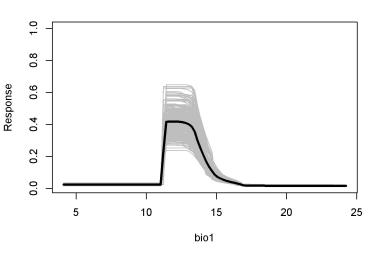
Hawaii.Creeper response curves GBM all vars

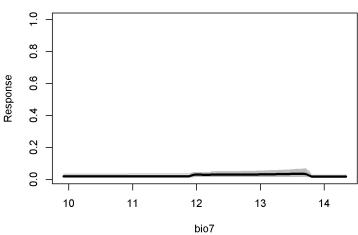
GBM modeled response for Hawaii.Creeper

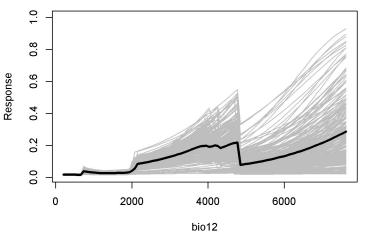


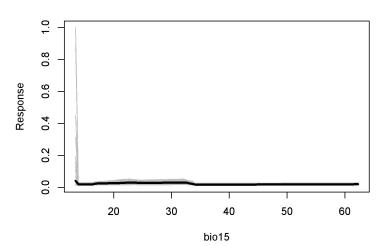
Hawaii.Creeper response curves MAXENT all vars

MAXENT modeled response for Hawaii. Creeper



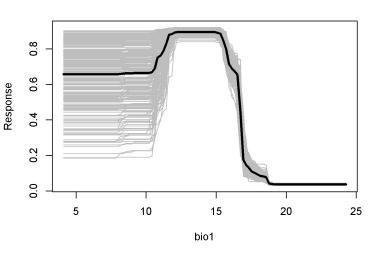


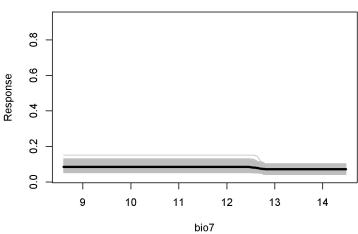


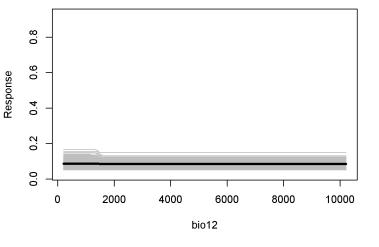


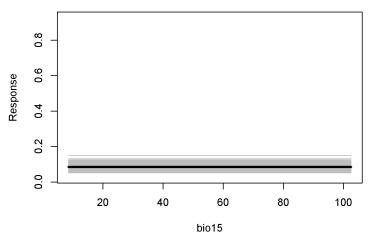
liwi response curves GBM all vars

GBM modeled response for liwi



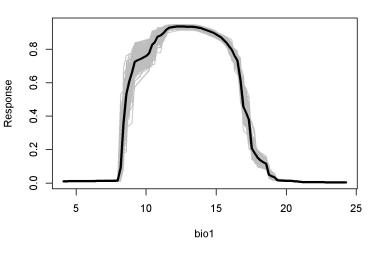


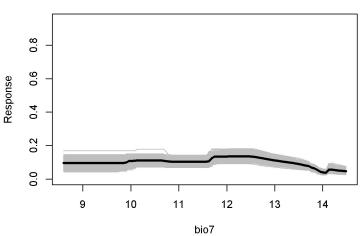


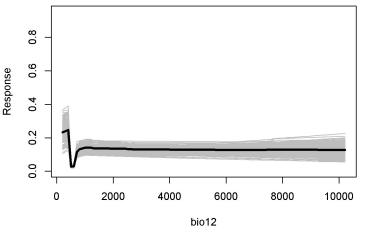


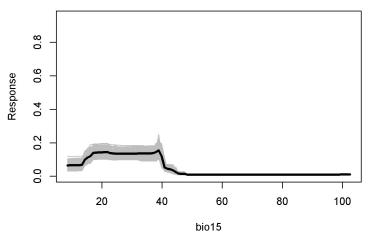
liwi response curves MAXENT all vars

MAXENT modeled response for liwi



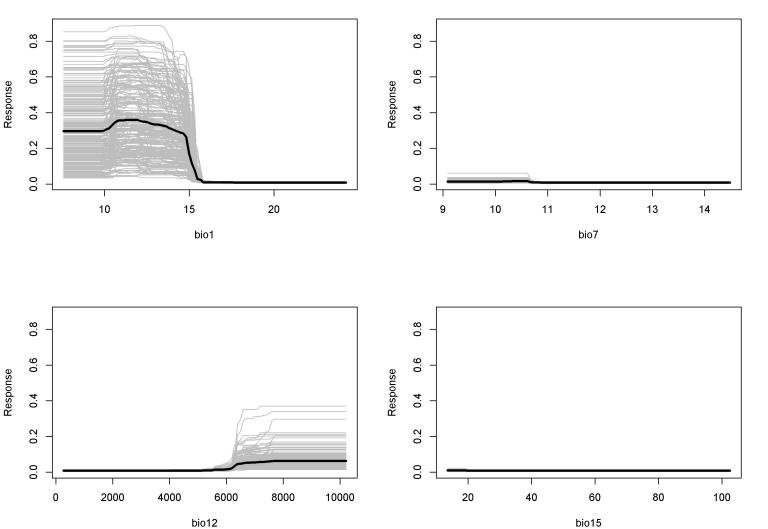






Maui. Alauahio response curves GBM all vars

GBM modeled response for Maui. Alauahio

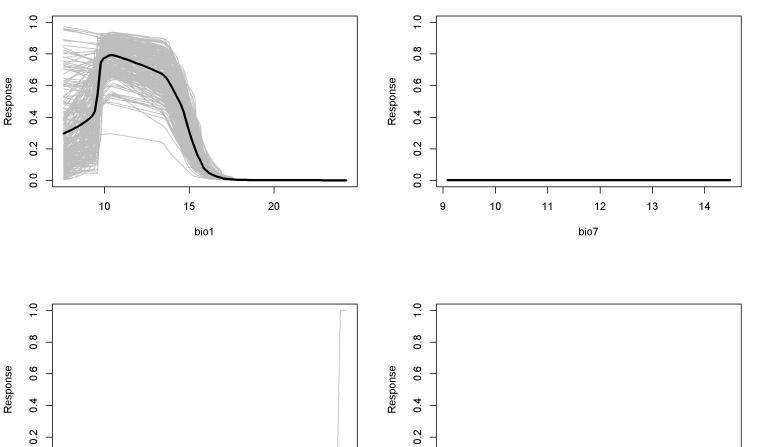


0.0

bio12

Maui. Alauahio response curves MAXENT all vars

MAXENT modeled response for Maui. Alauahio

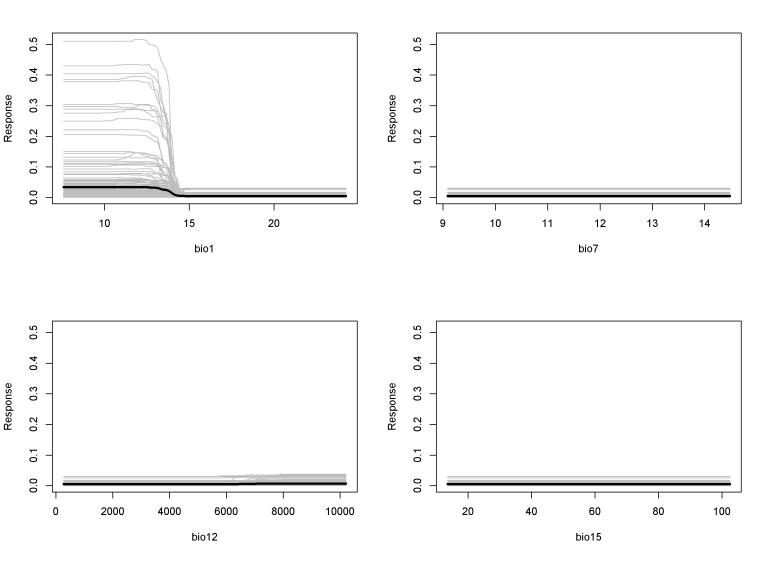


0.0

bio15

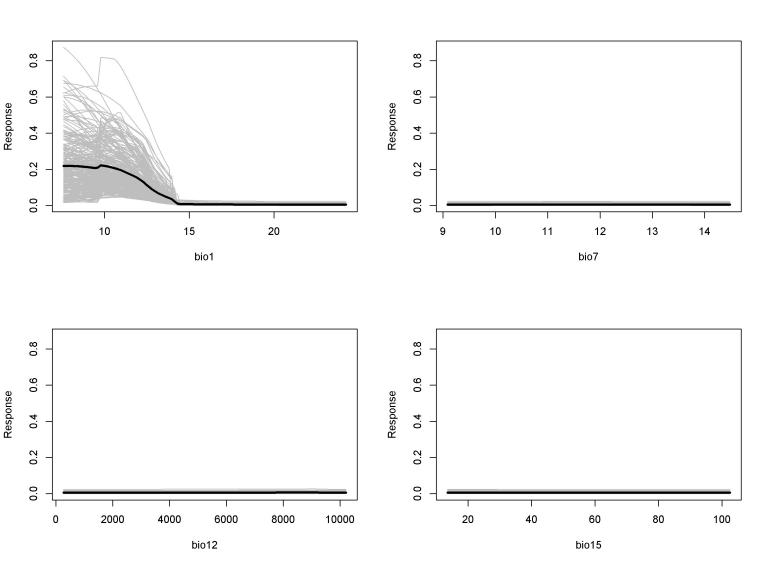
Maui.Parrotbill response curves GBM all vars

GBM modeled response for Maui.Parrotbill



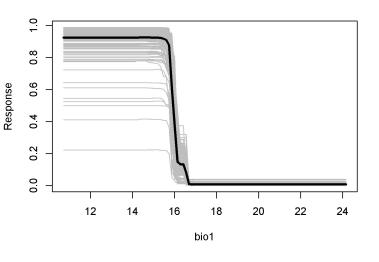
Maui.Parrotbill response curves MAXENT all vars

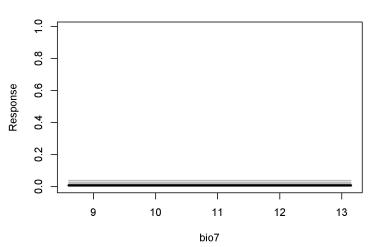
MAXENT modeled response for Maui.Parrotbill

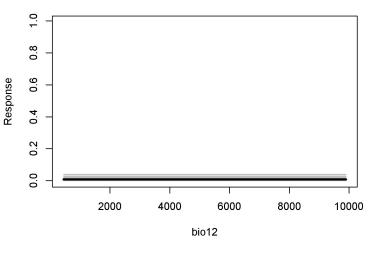


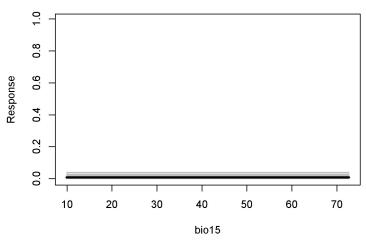
Puaiohi response curves GBM all vars

GBM modeled response for Puaiohi



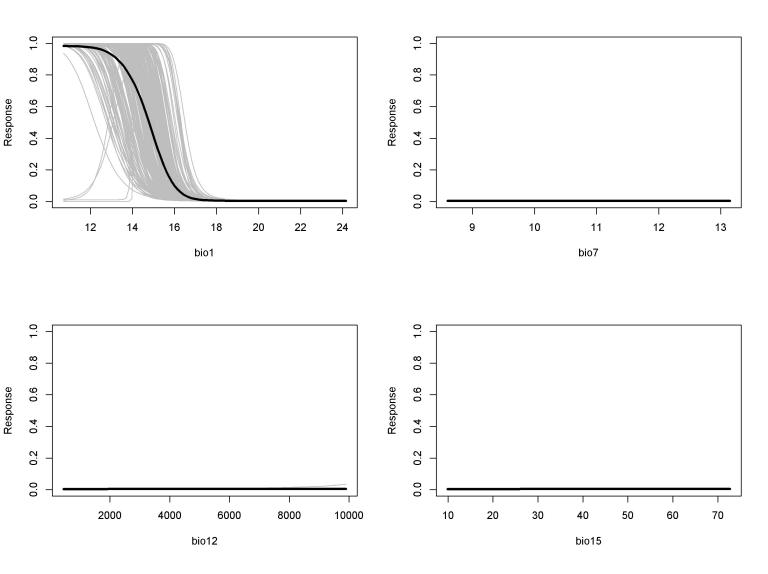






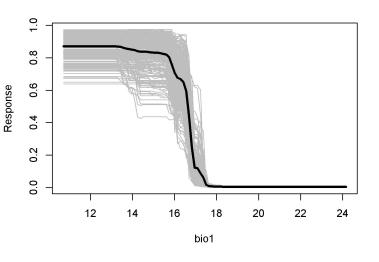
Puaiohi response curves MAXENT all vars

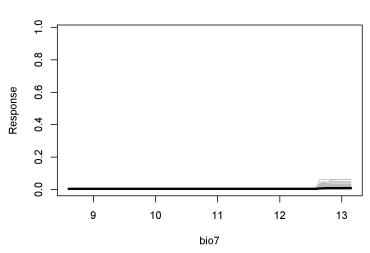
MAXENT modeled response for Puaiohi

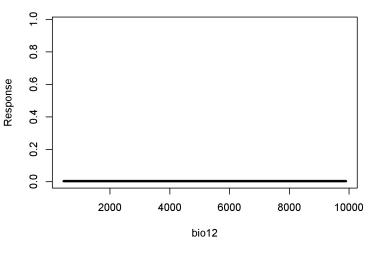


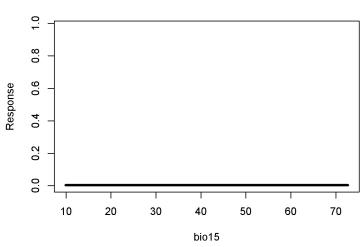
Anianiau response curves GBM all vars

GBM modeled response for Anianiau



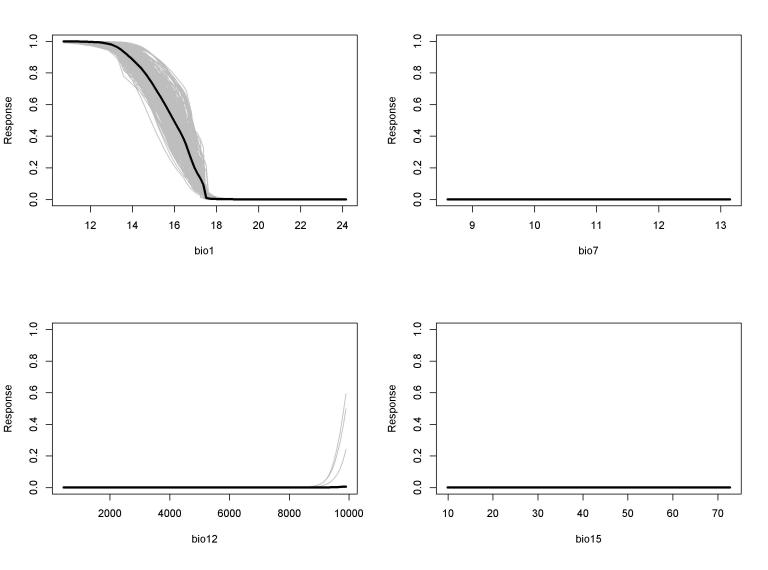






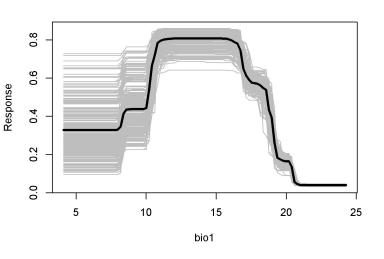
Anianiau response curves MAXENT all vars

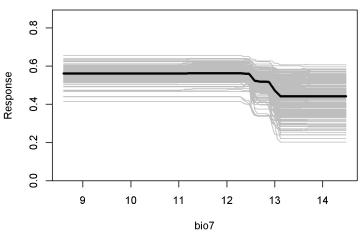
MAXENT modeled response for Anianiau

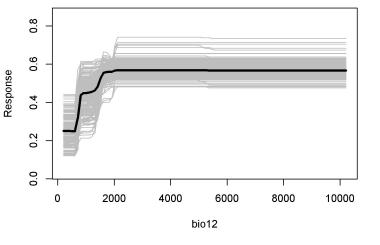


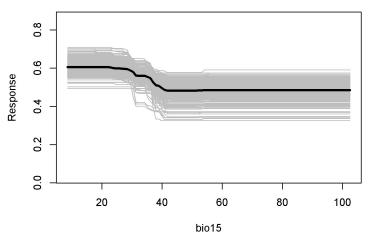
Apapane response curves GBM all vars

GBM modeled response for Apapane



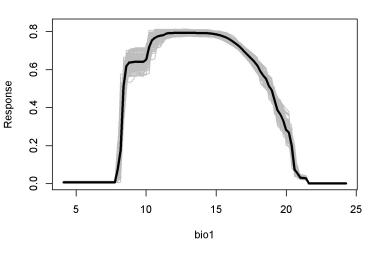


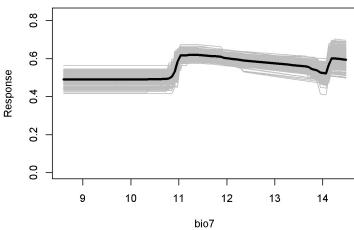


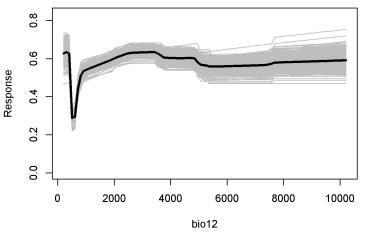


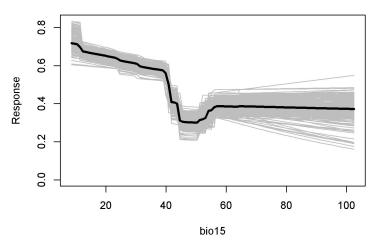
Apapane response curves MAXENT all vars

MAXENT modeled response for Apapane



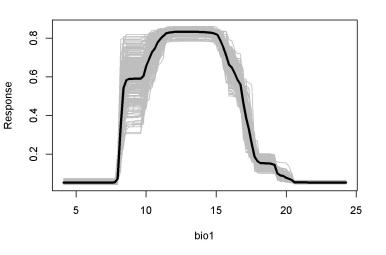


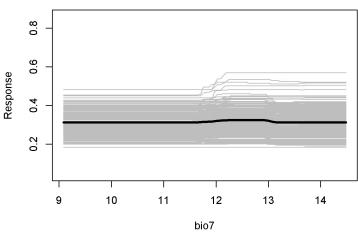


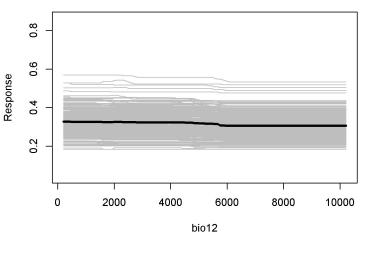


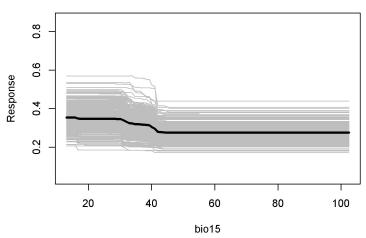
Hawaii.Amakihi response curves GBM all vars

GBM modeled response for Hawaii. Amakihi



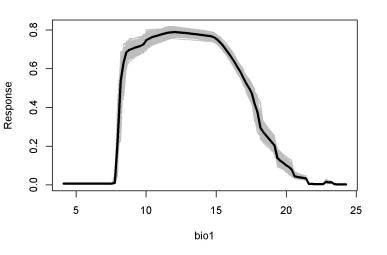


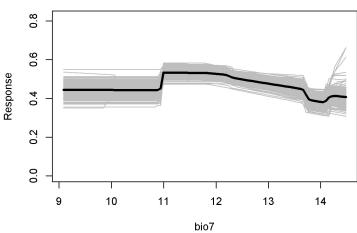


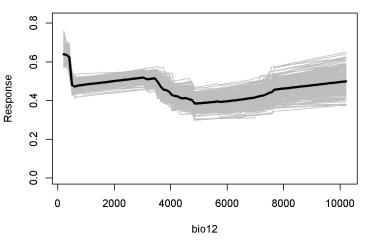


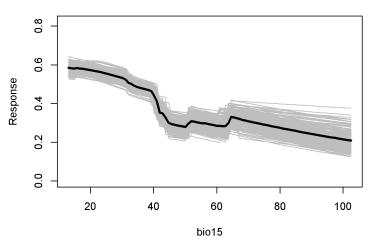
Hawaii.Amakihi response curves MAXENT all vars

MAXENT modeled response for Hawaii. Amakihi



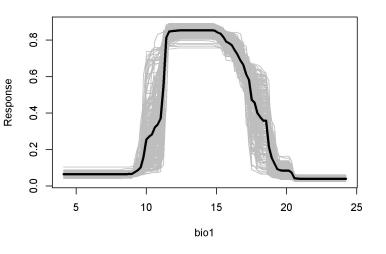


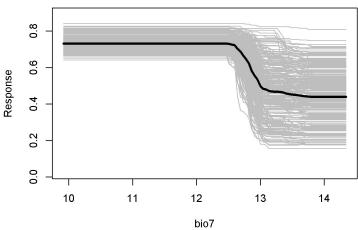


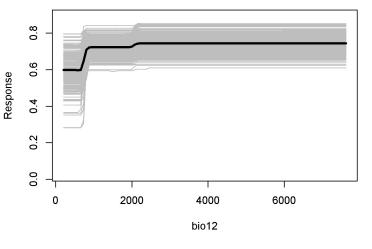


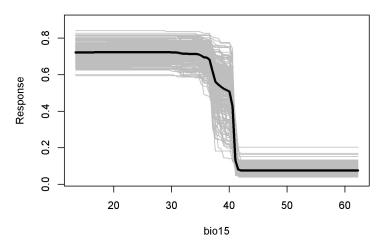
Hawaii. Elepaio response curves GBM all vars

GBM modeled response for Hawaii. Elepaio



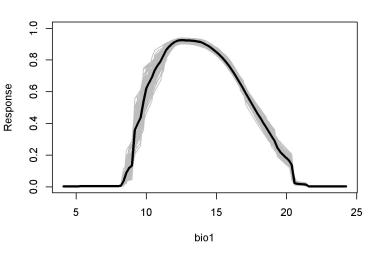


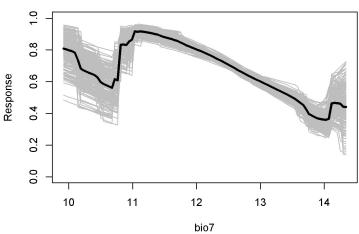


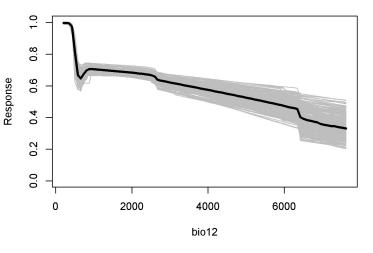


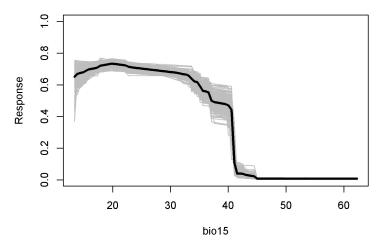
Hawaii. Elepaio response curves MAXENT all vars

MAXENT modeled response for Hawaii. Elepaio



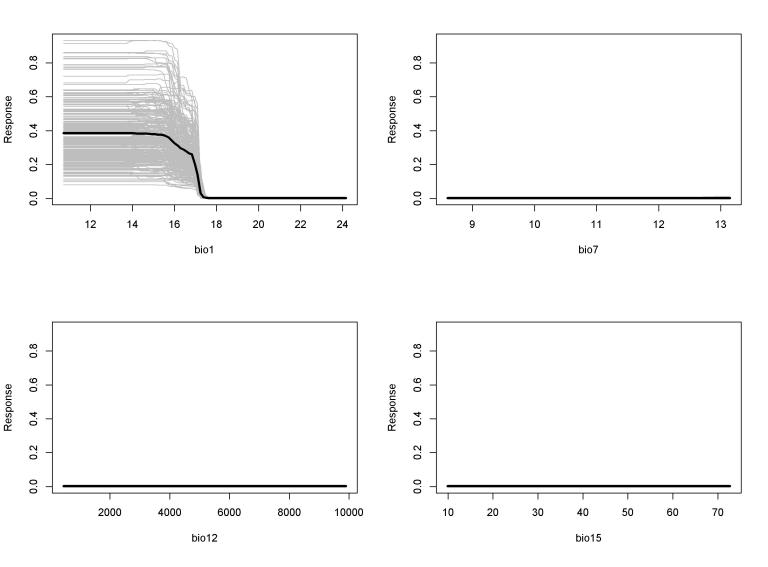






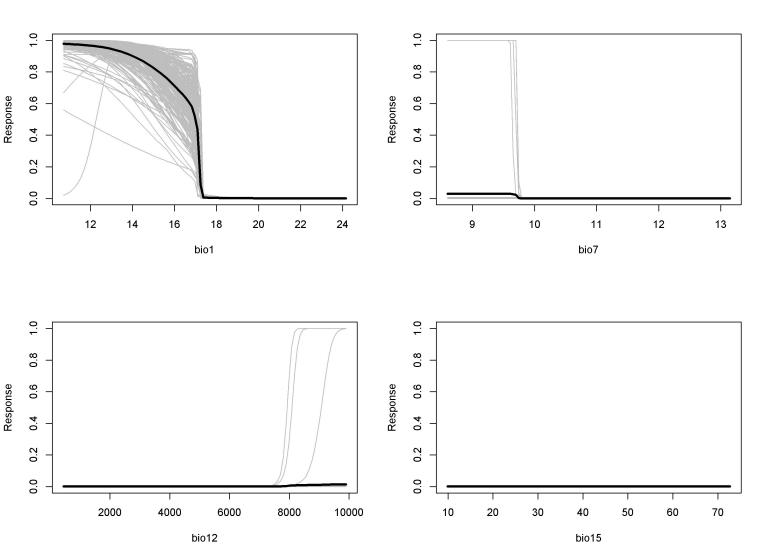
Kauai. Amakihi response curves GBM all vars

GBM modeled response for Kauai. Amakihi



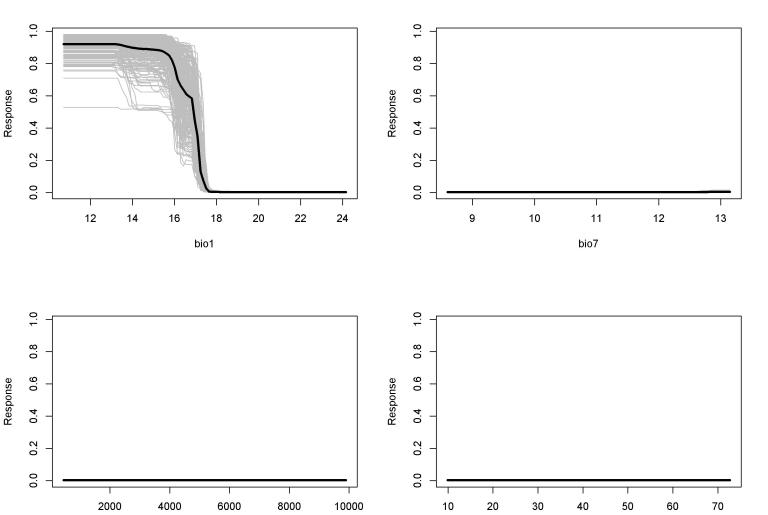
Kauai. Amakihi response curves MAXENT all vars

MAXENT modeled response for Kauai. Amakihi



Kauai. Elepaio response curves GBM all vars

GBM modeled response for Kauai. Elepaio

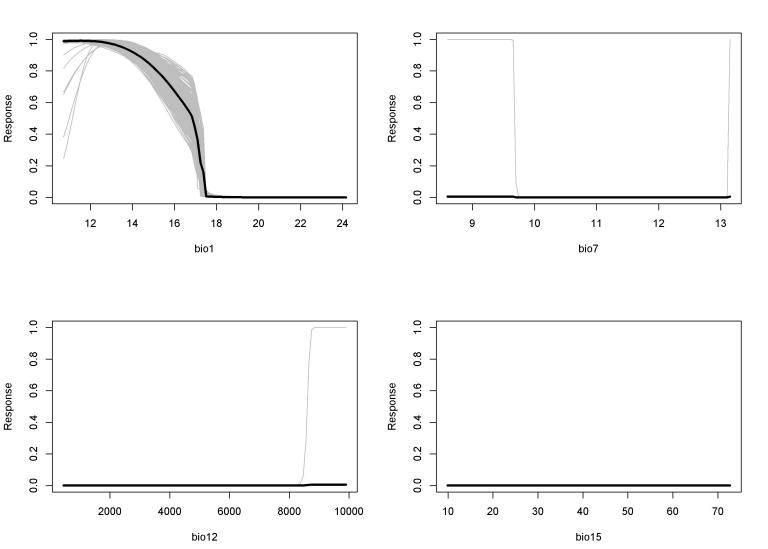


bio15

bio12

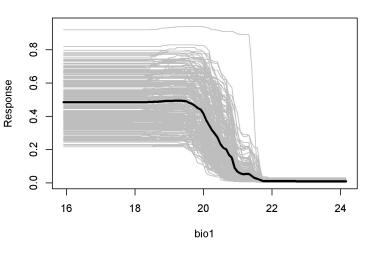
Kauai. Elepaio response curves MAXENT all vars

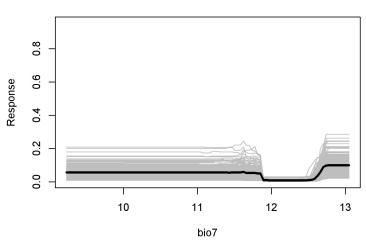
MAXENT modeled response for Kauai. Elepaio

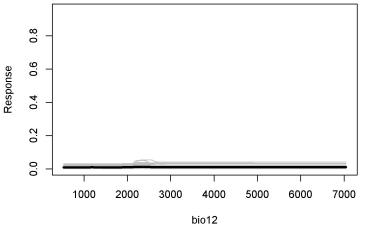


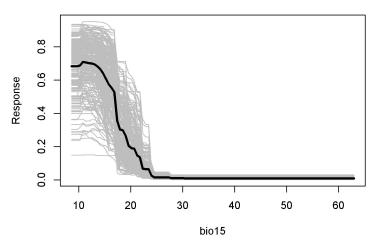
Oahu. Amakihi response curves GBM all vars

GBM modeled response for Oahu.Amakihi



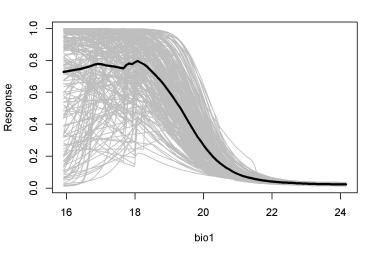


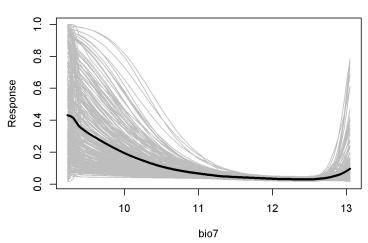


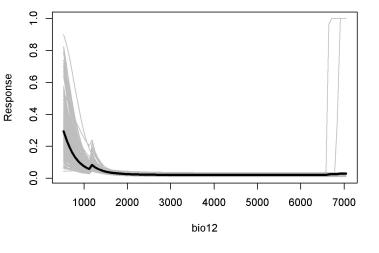


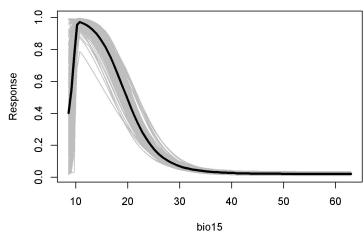
Oahu. Amakihi response curves MAXENT all vars

MAXENT modeled response for Oahu.Amakihi



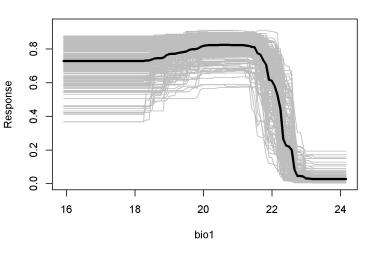


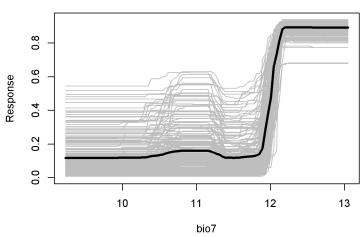


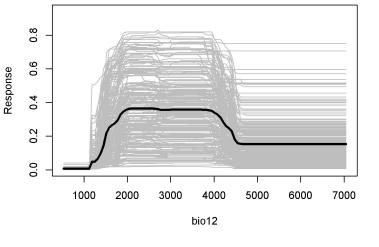


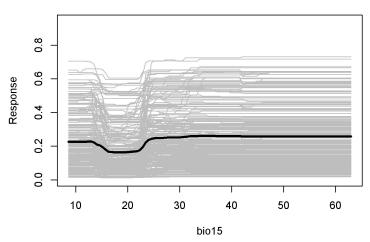
Oahu. Elepaio response curves GBM all vars

GBM modeled response for Oahu. Elepaio



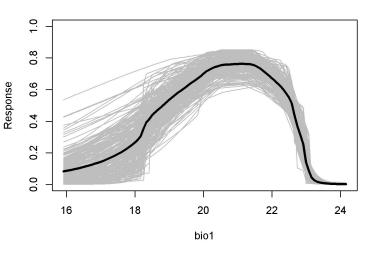


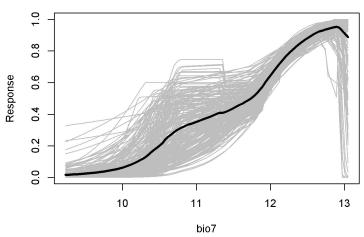


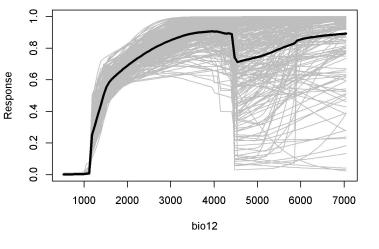


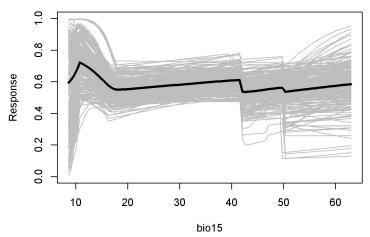
Oahu. Elepaio response curves MAXENT all vars

MAXENT modeled response for Oahu. Elepaio



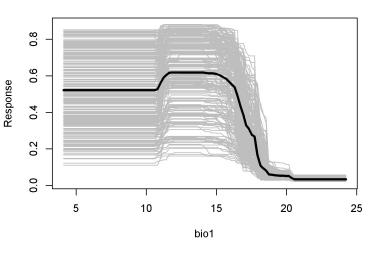


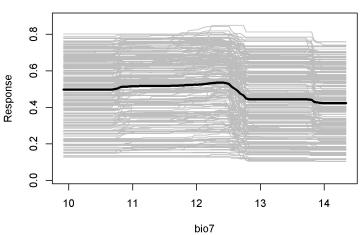


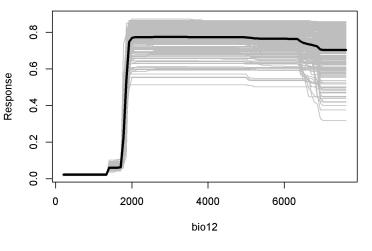


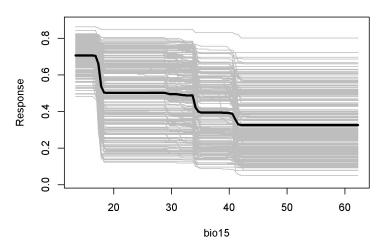
Omao response curves GBM all vars

GBM modeled response for Omao



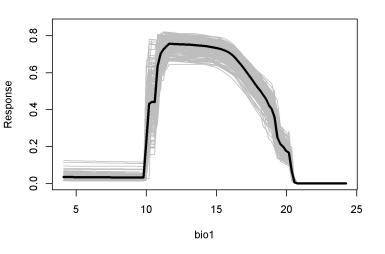


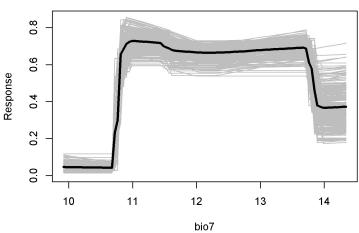


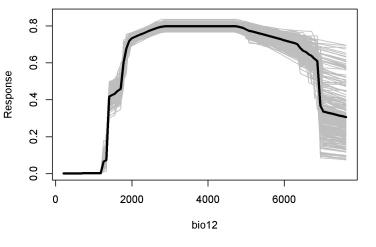


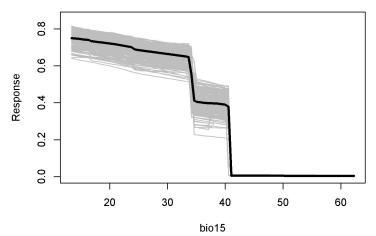
Omao response curves MAXENT all vars

MAXENT modeled response for Omao



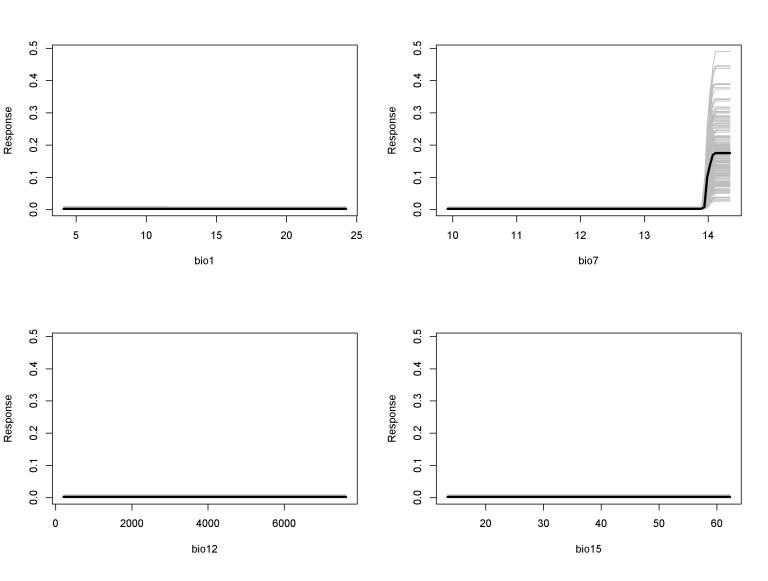






Palila response curves GBM all vars

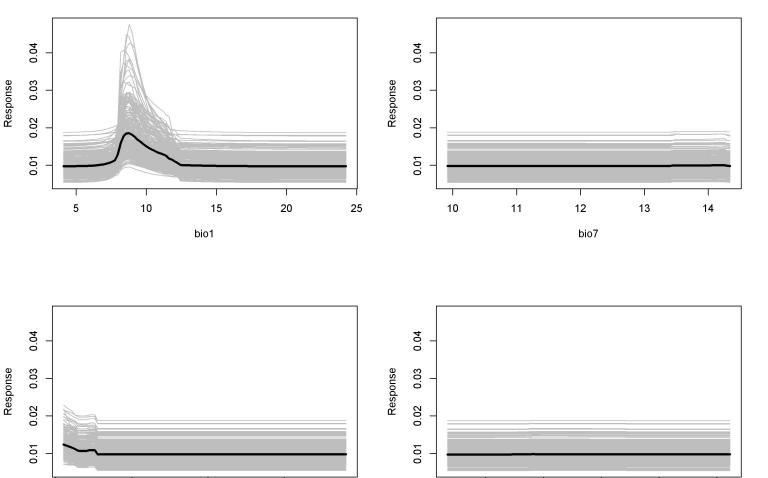
GBM modeled response for Palila



Palila response curves MAXENT all vars

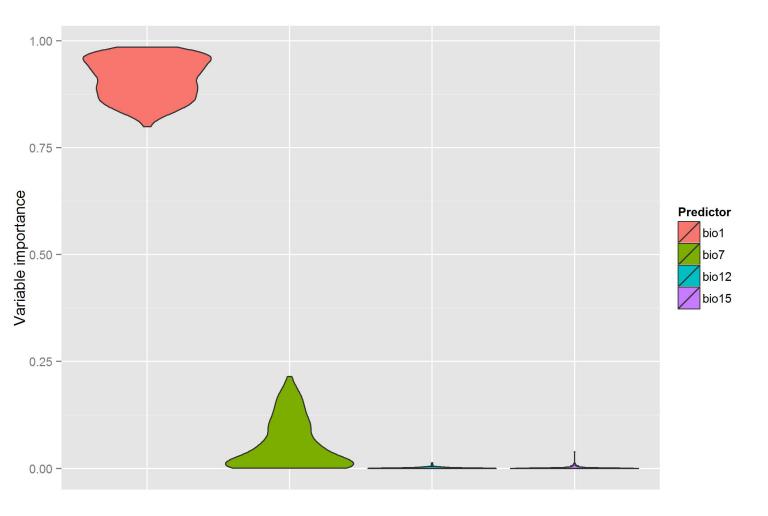
bio12

MAXENT modeled response for Palila

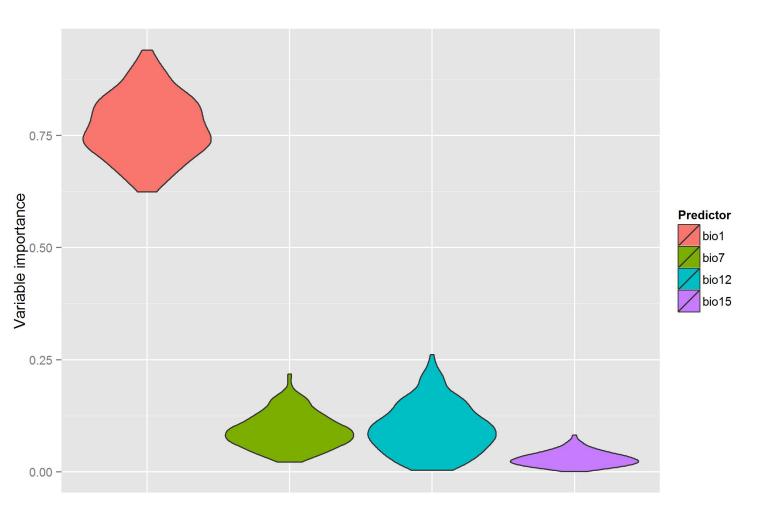


bio15

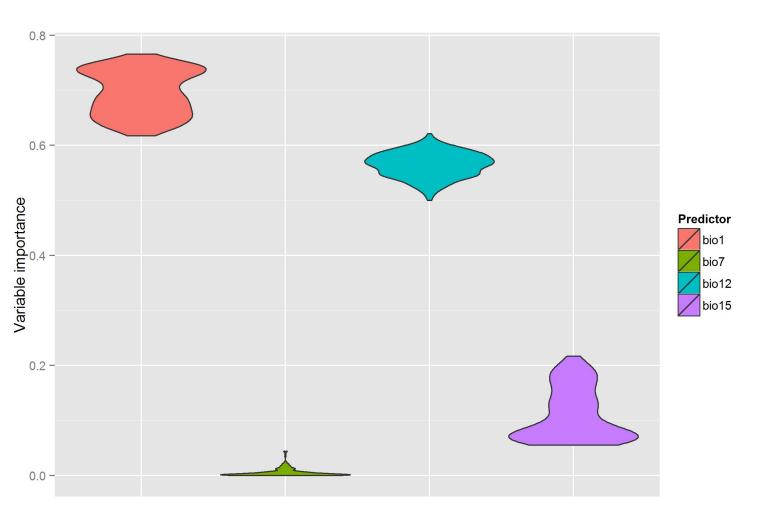
Akekee GBM variable importance violin plot



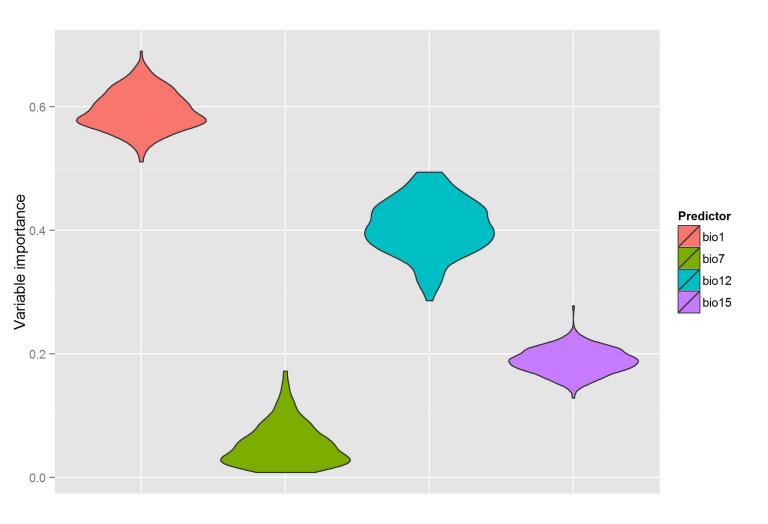
Akekee MAXENT variable importance violin plot



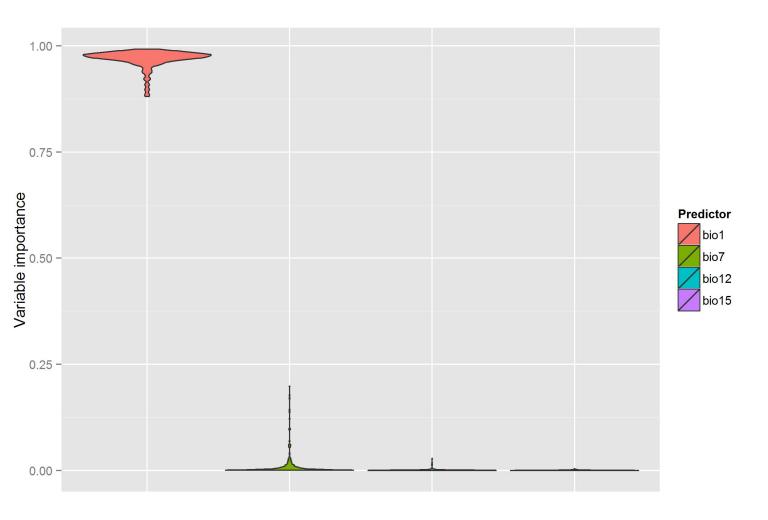
Akiapolauu GBM variable importance violin plot



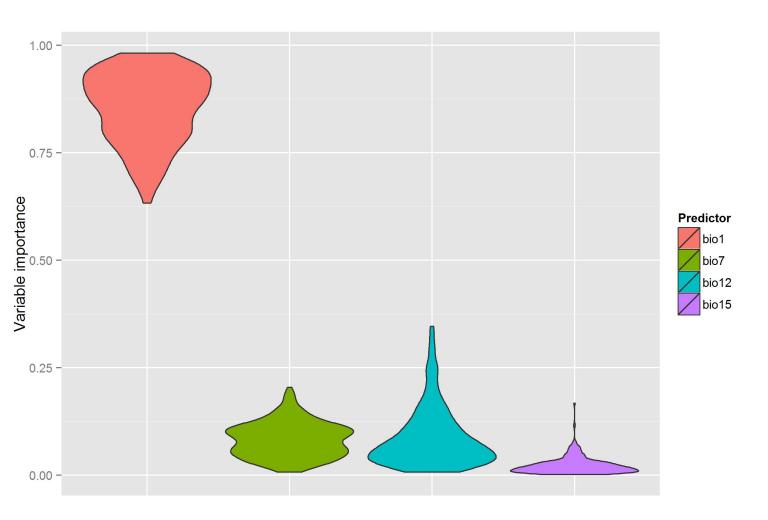
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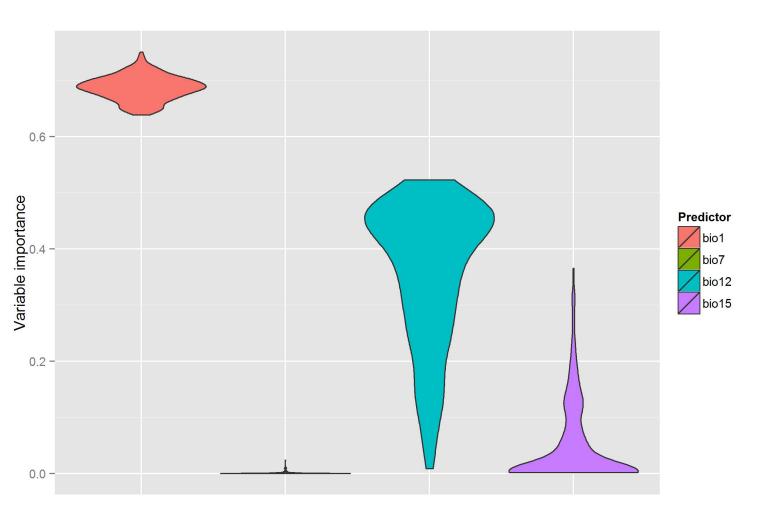
Akikiki GBM variable importance violin plot



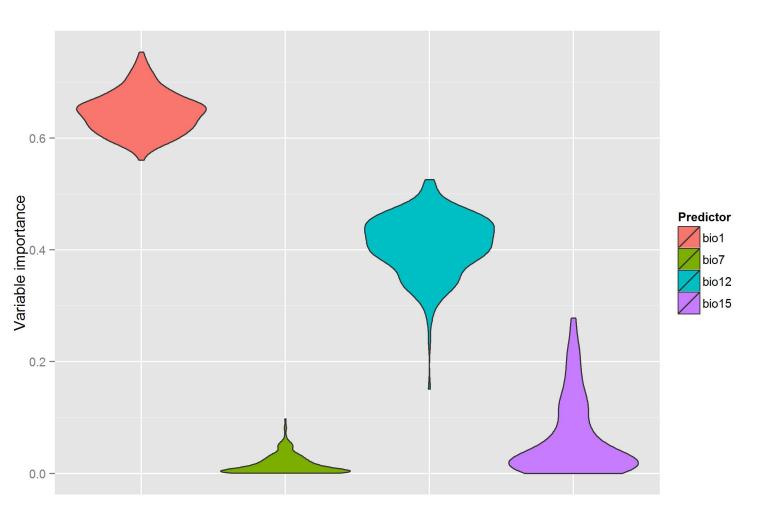
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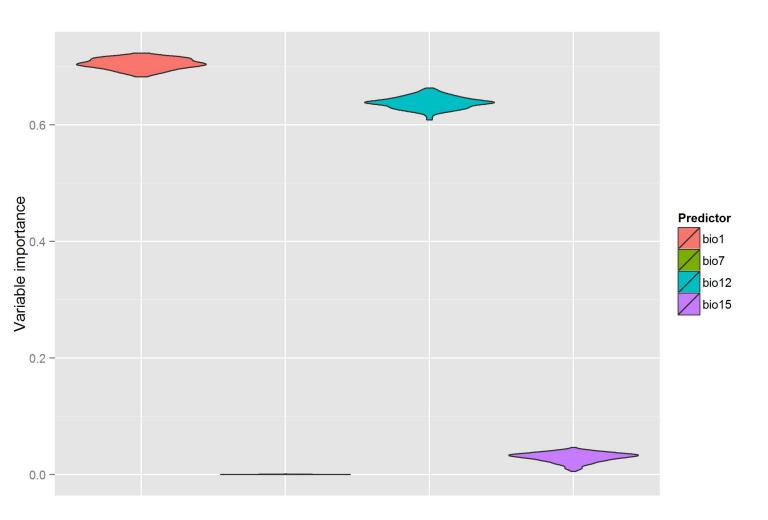
Akohekohe GBM variable importance violin plot



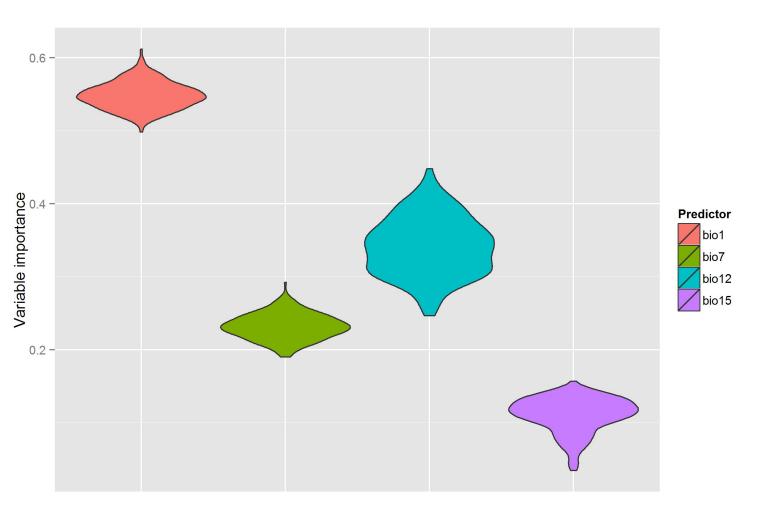
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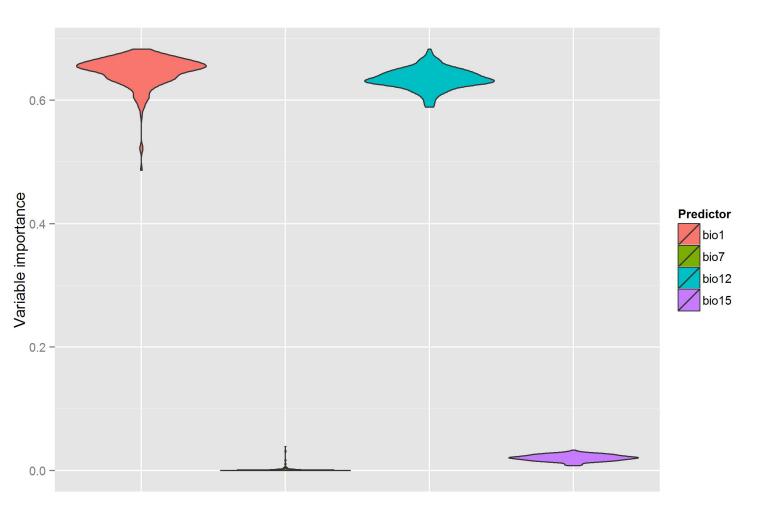
Hawaii Akepa GBM variable importance violin plot



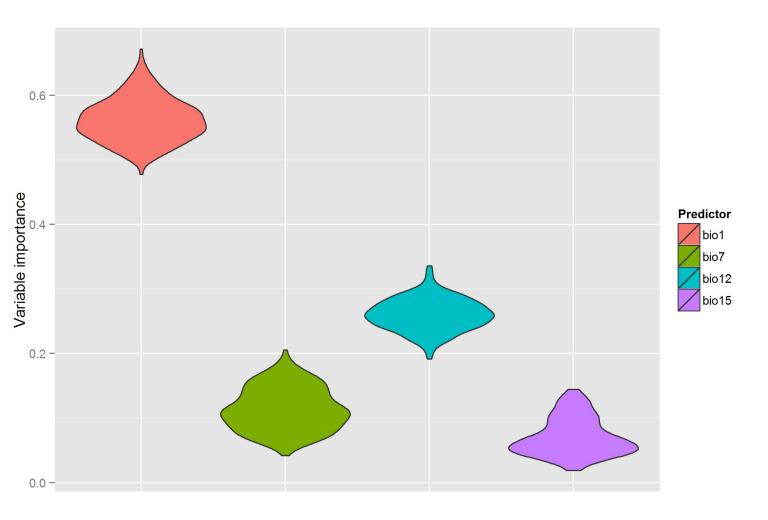
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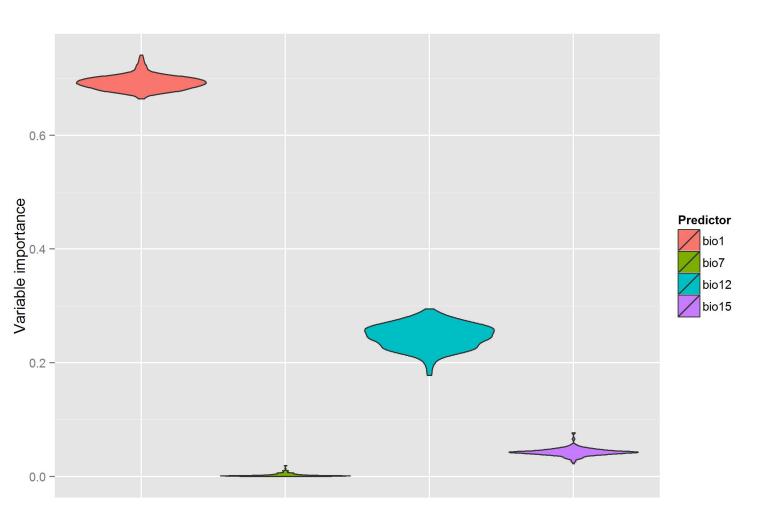
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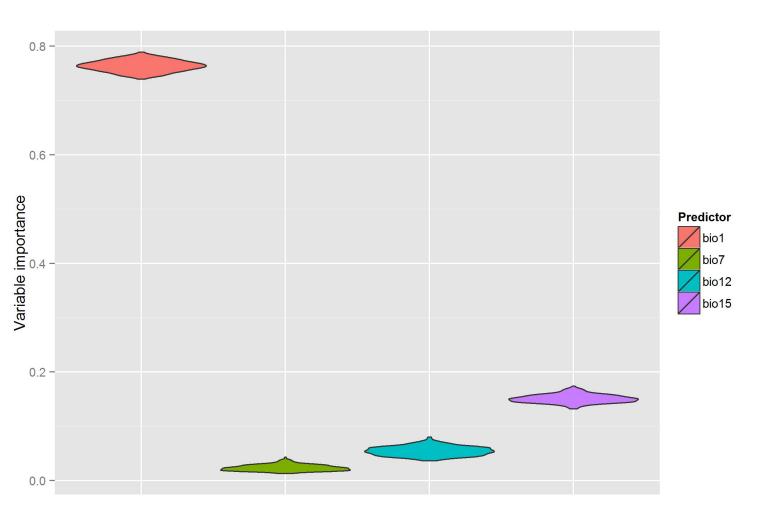
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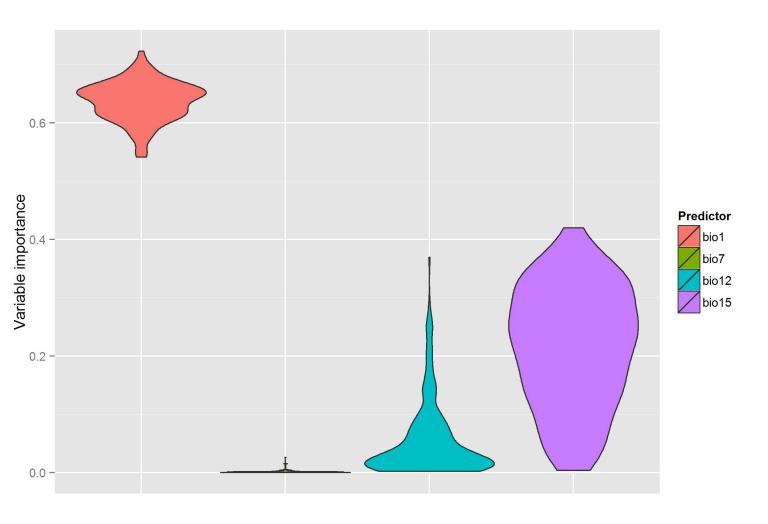
liwi GBM variable importance violin plot



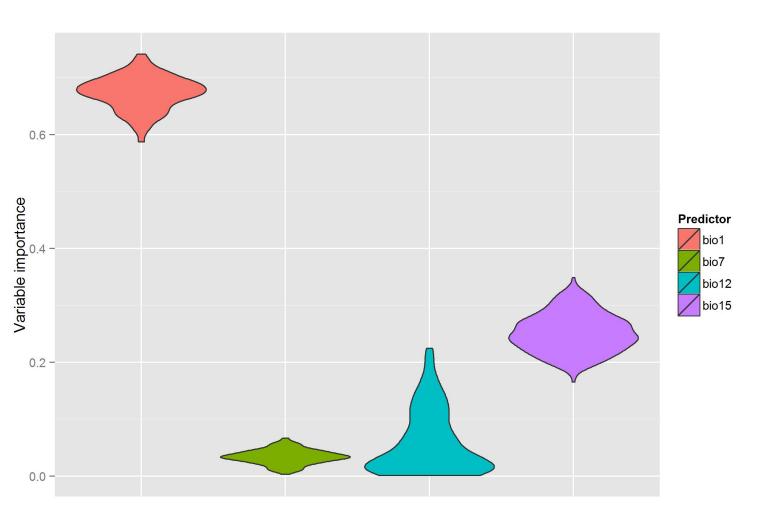
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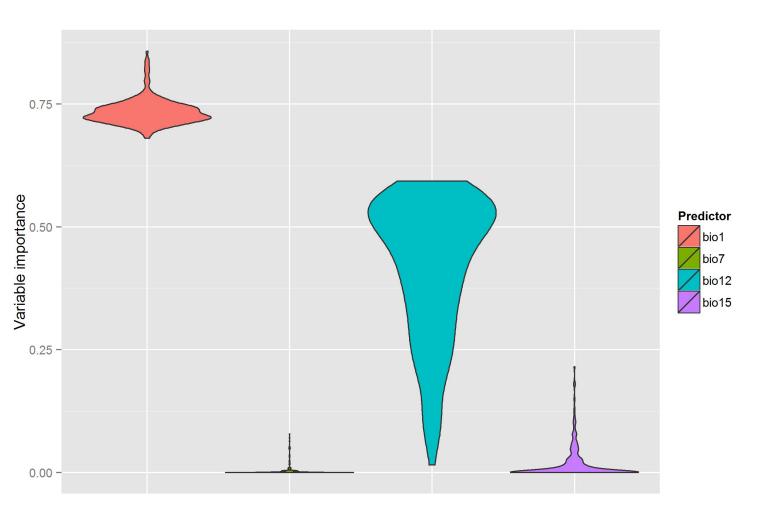
Maui Alauahio GBM variable importance violin plot



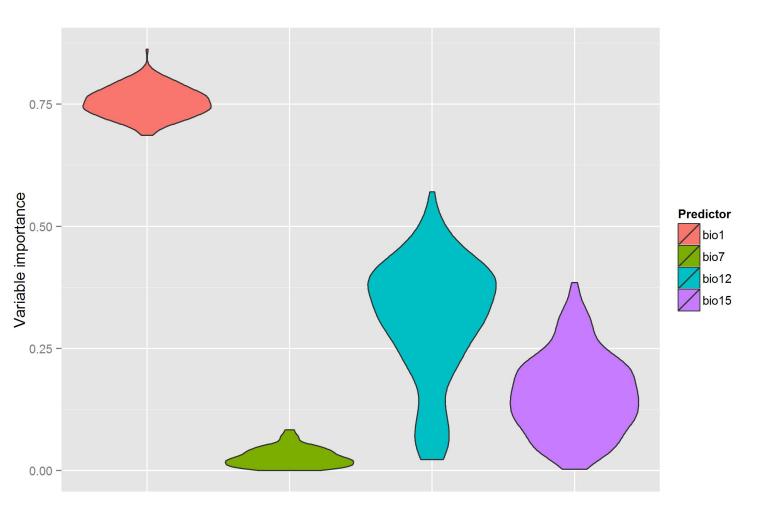
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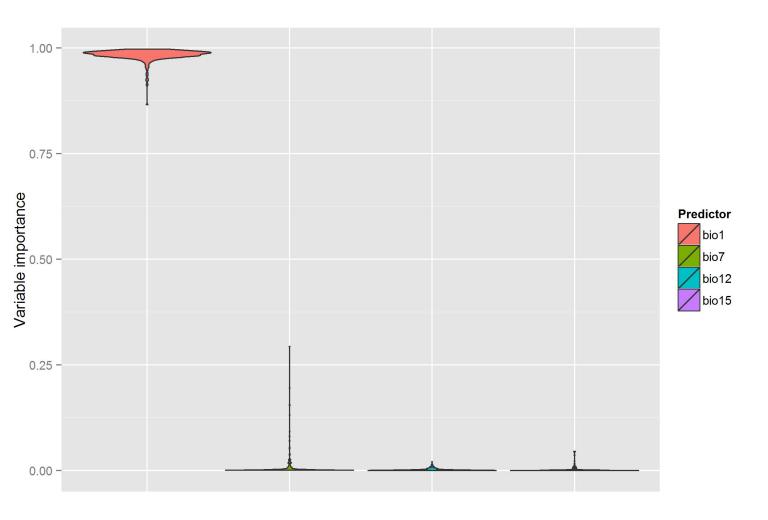
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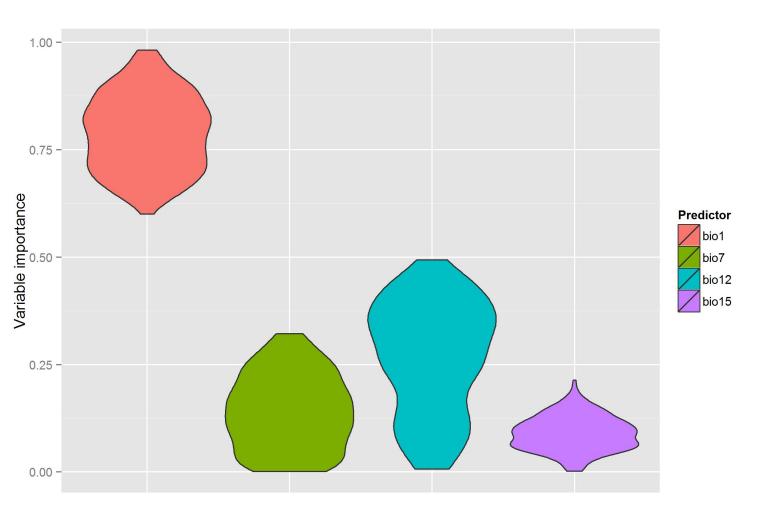
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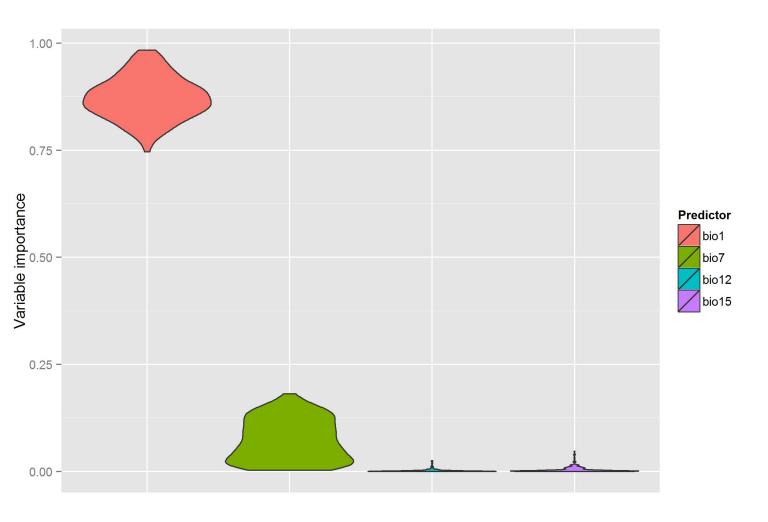
Puaiohi GBM variable importance violin plot



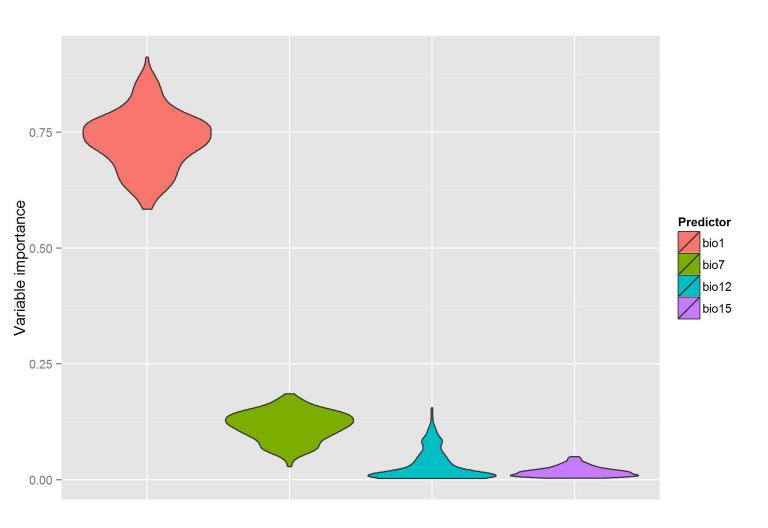
Puaiohi MAXENT variable importance violin plot



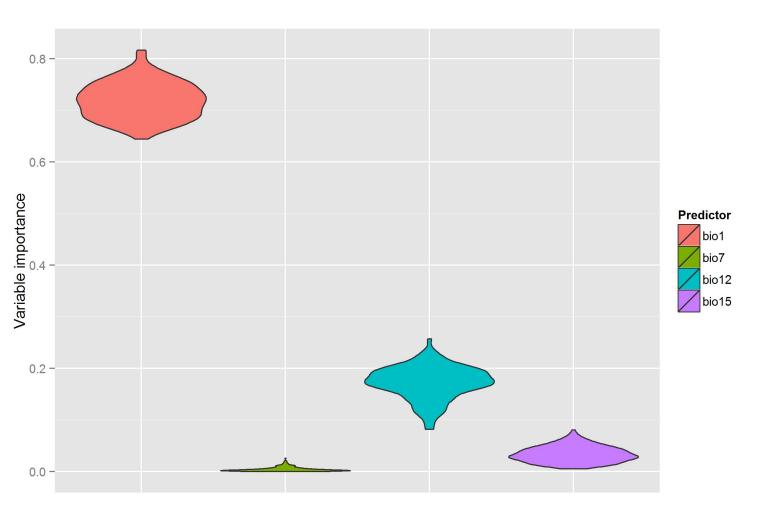
Anianiau GBM variable importance violin plot



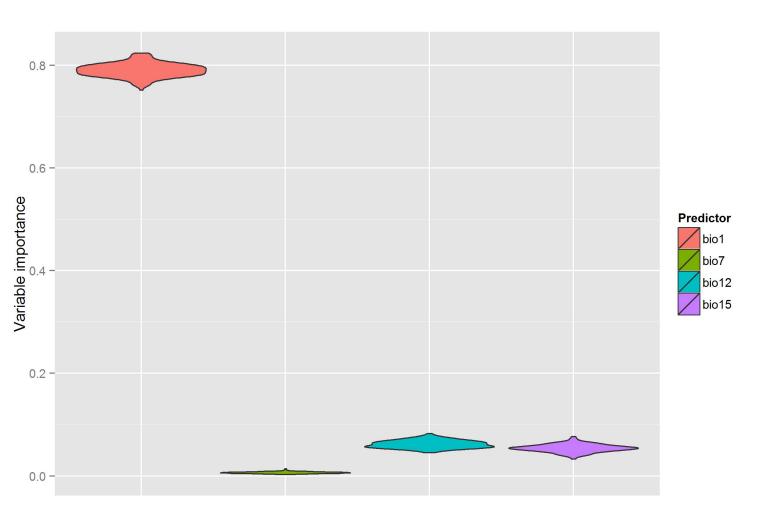
Anianiau MAXENT variable importance violin plot



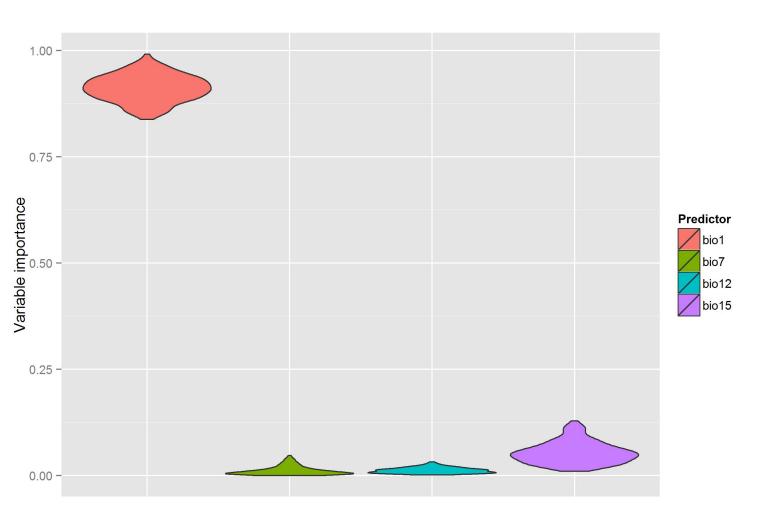
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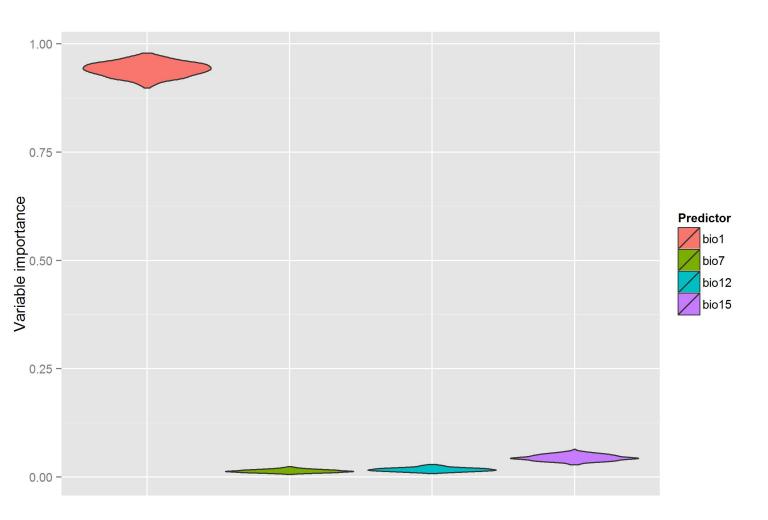
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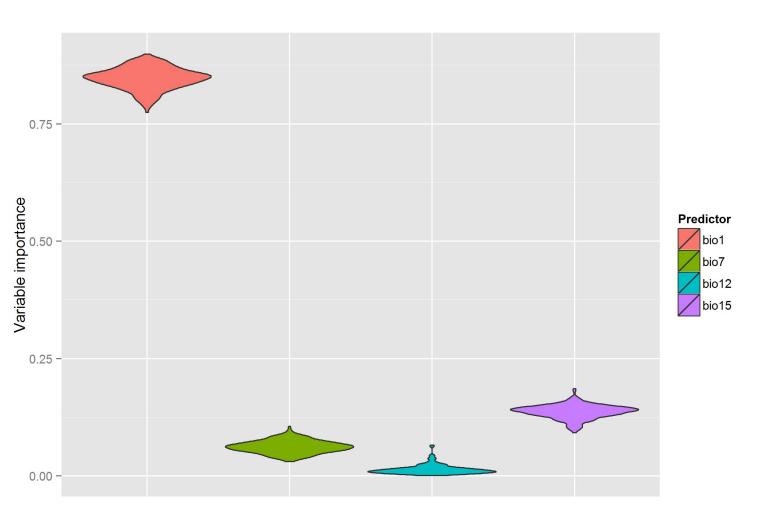
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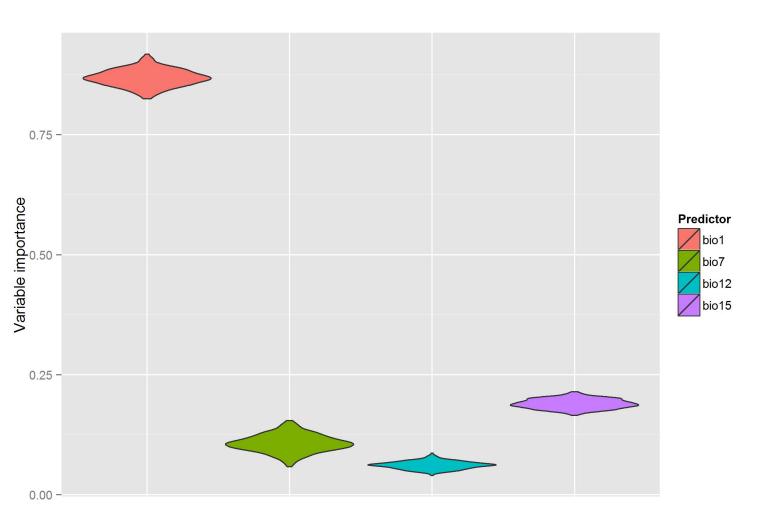
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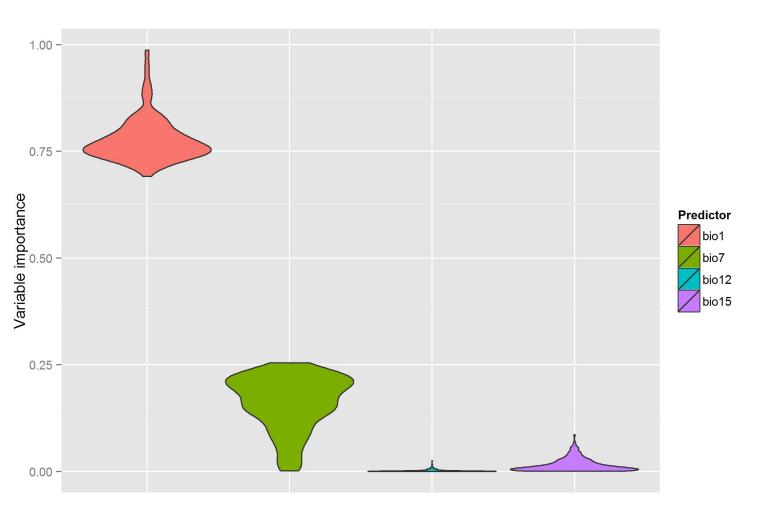
Hawaii Elepaio GBM variable importance violin plot



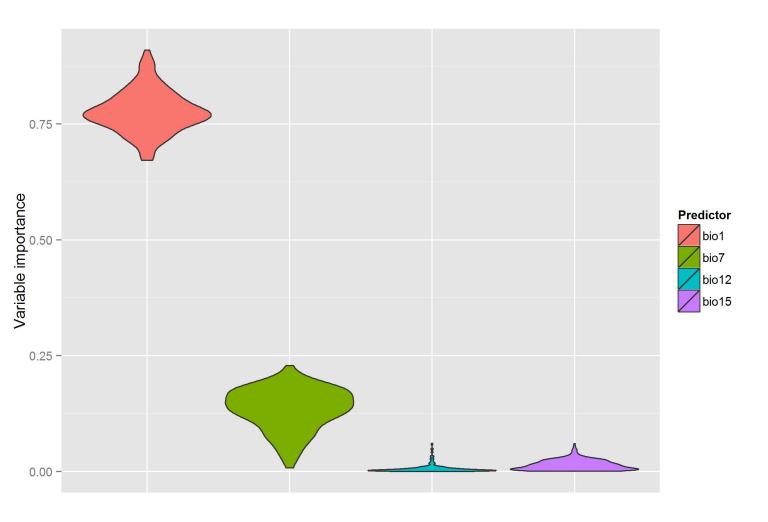
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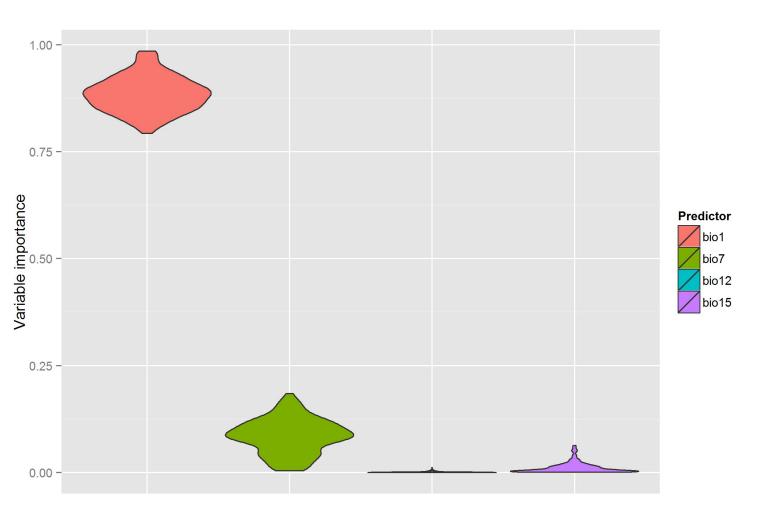
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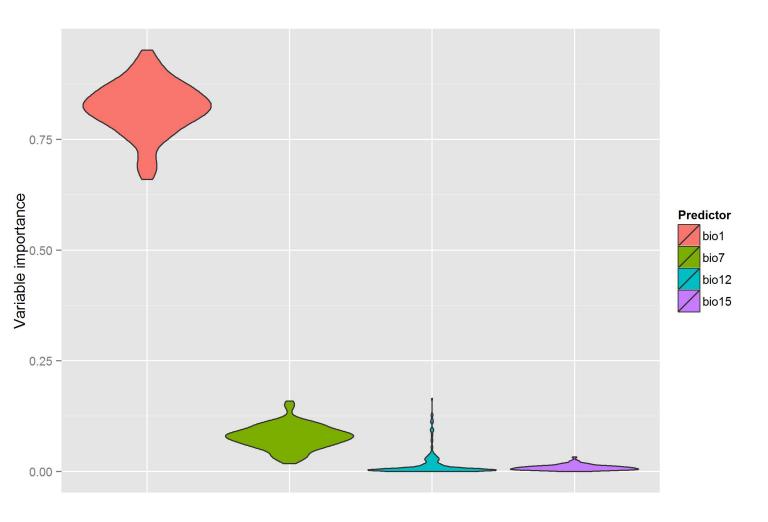
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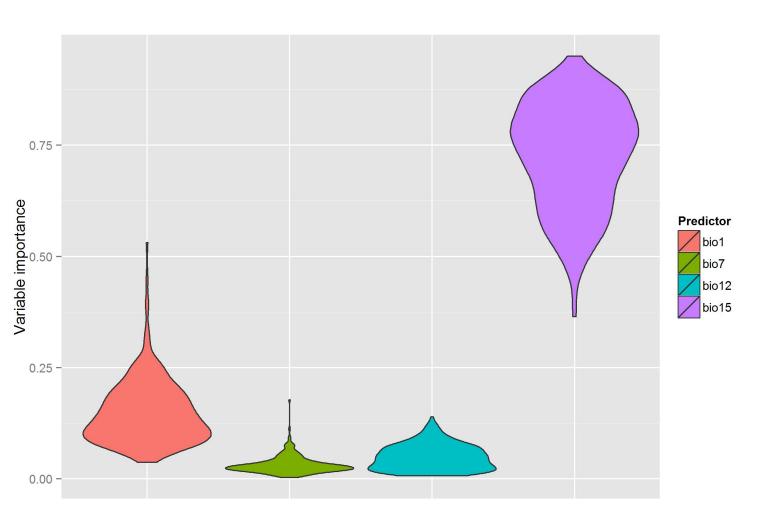
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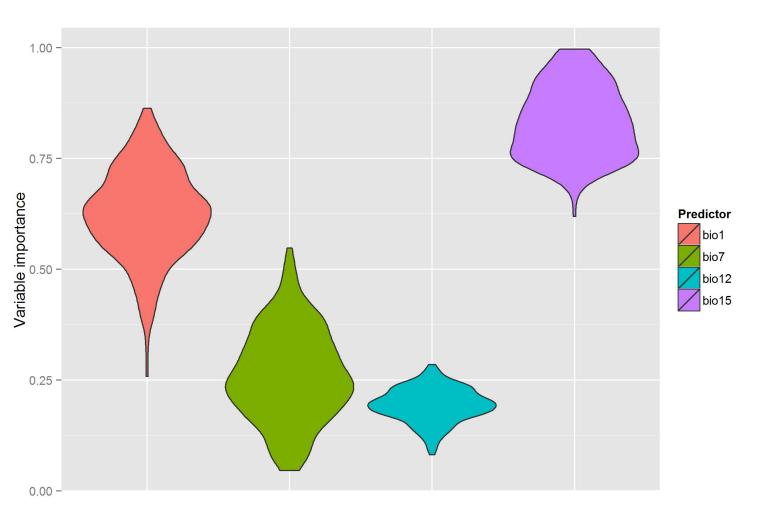
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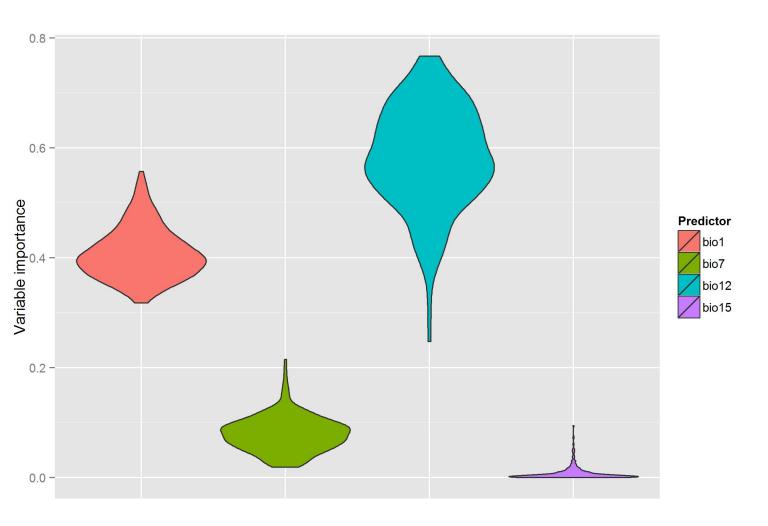
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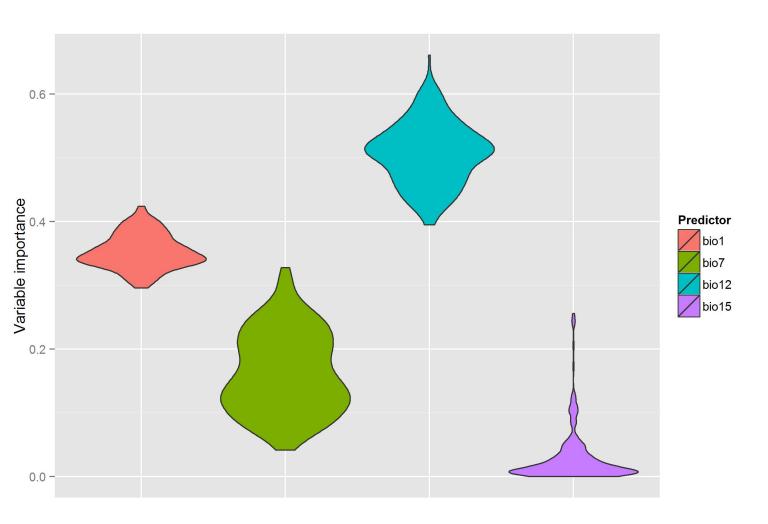
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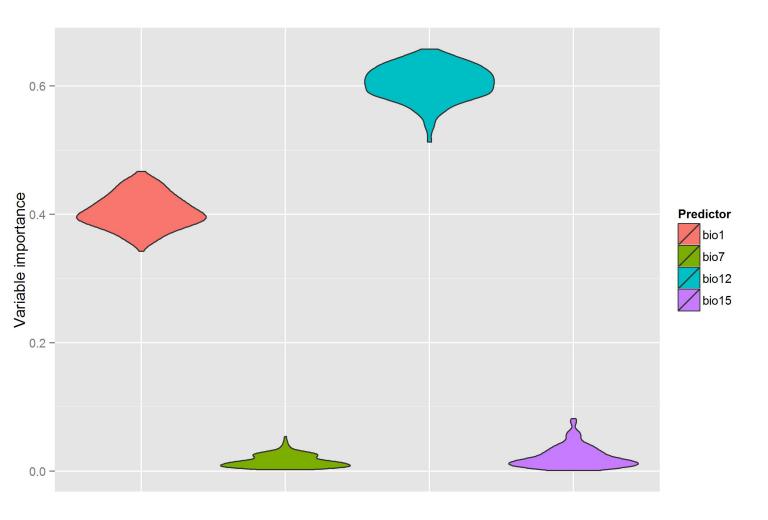
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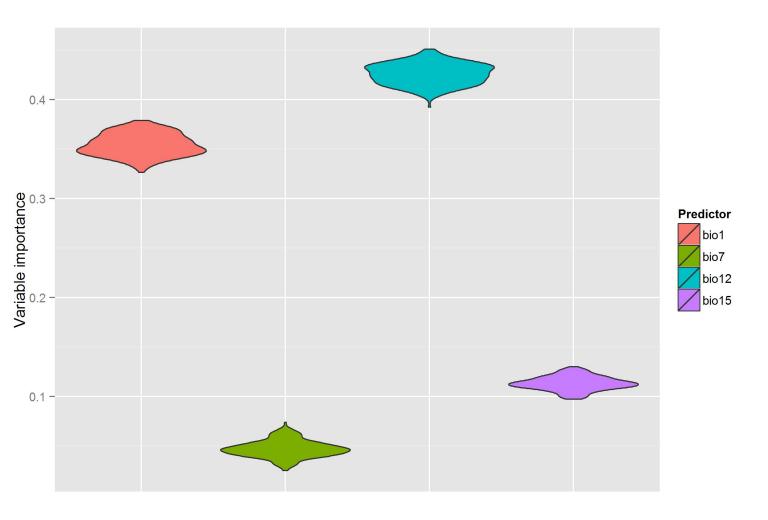
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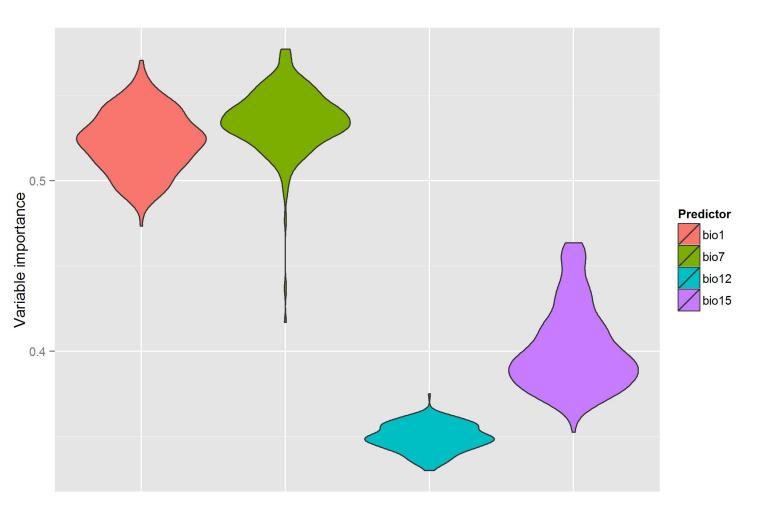
Omao GBM variable importance violin plot



Omao MAXENT variable importance violin plot



Palila GBM variable importance violin plot



Palila MAXENT variable importance violin plot

