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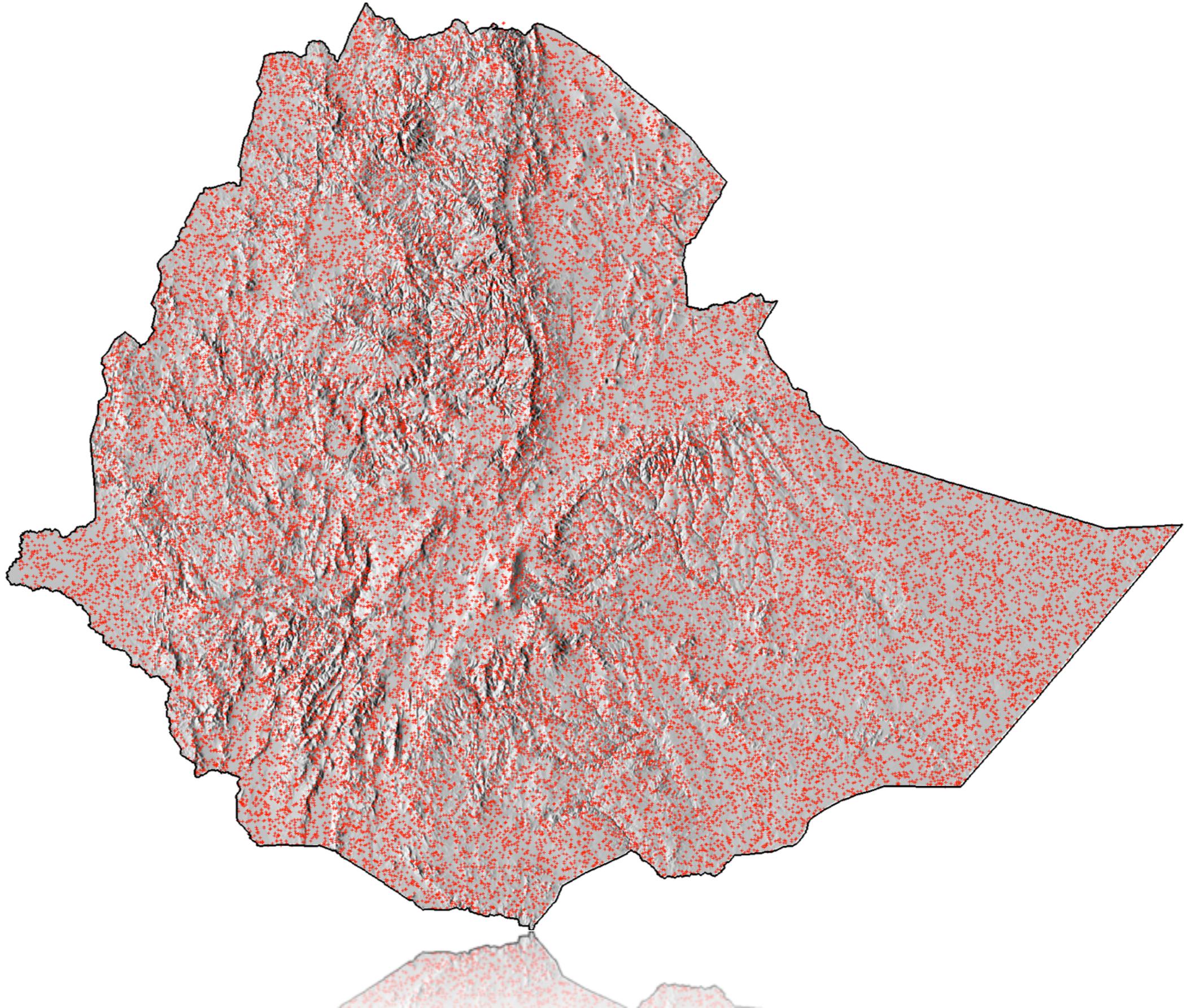
Geo-Wiki Ethiopia Ensemble Predictions: Croplands & Human Settlements



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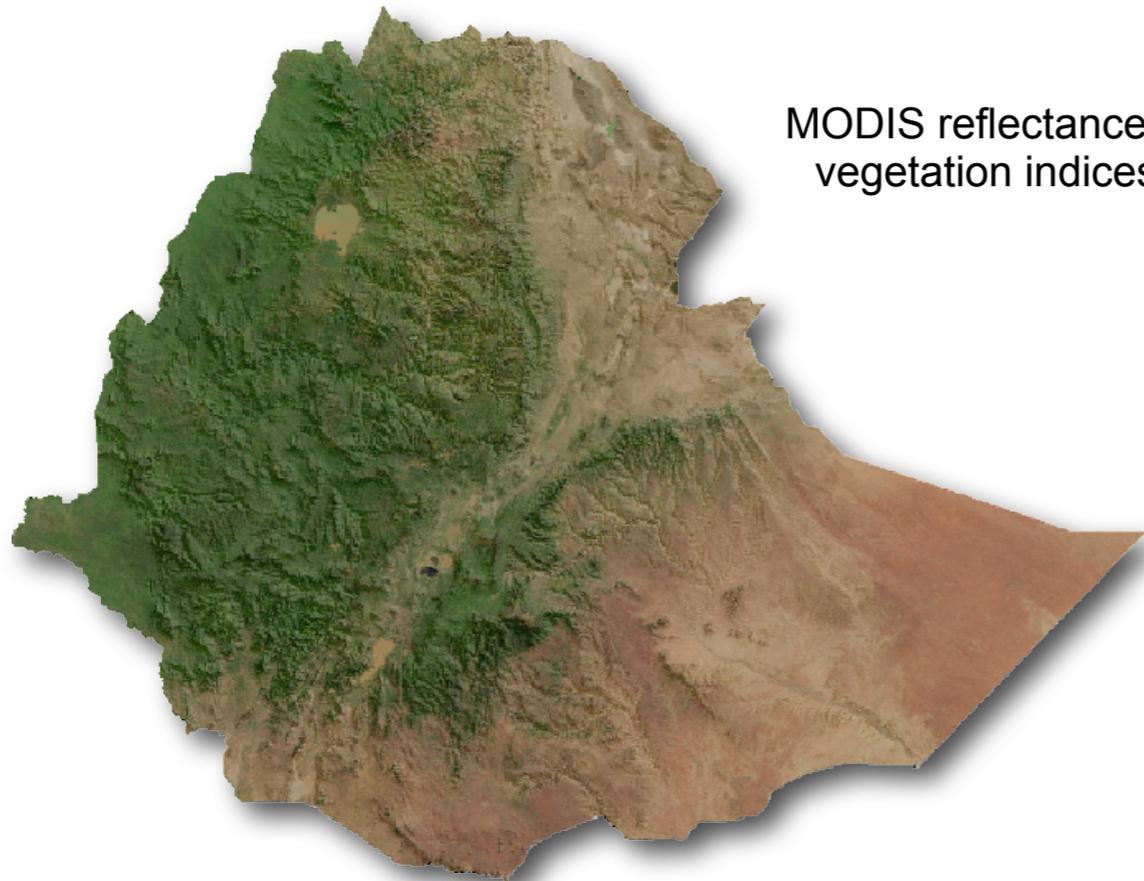
IIASA Geo-Wiki observations

data download at: <http://www.geo-wiki.org/download-data/>

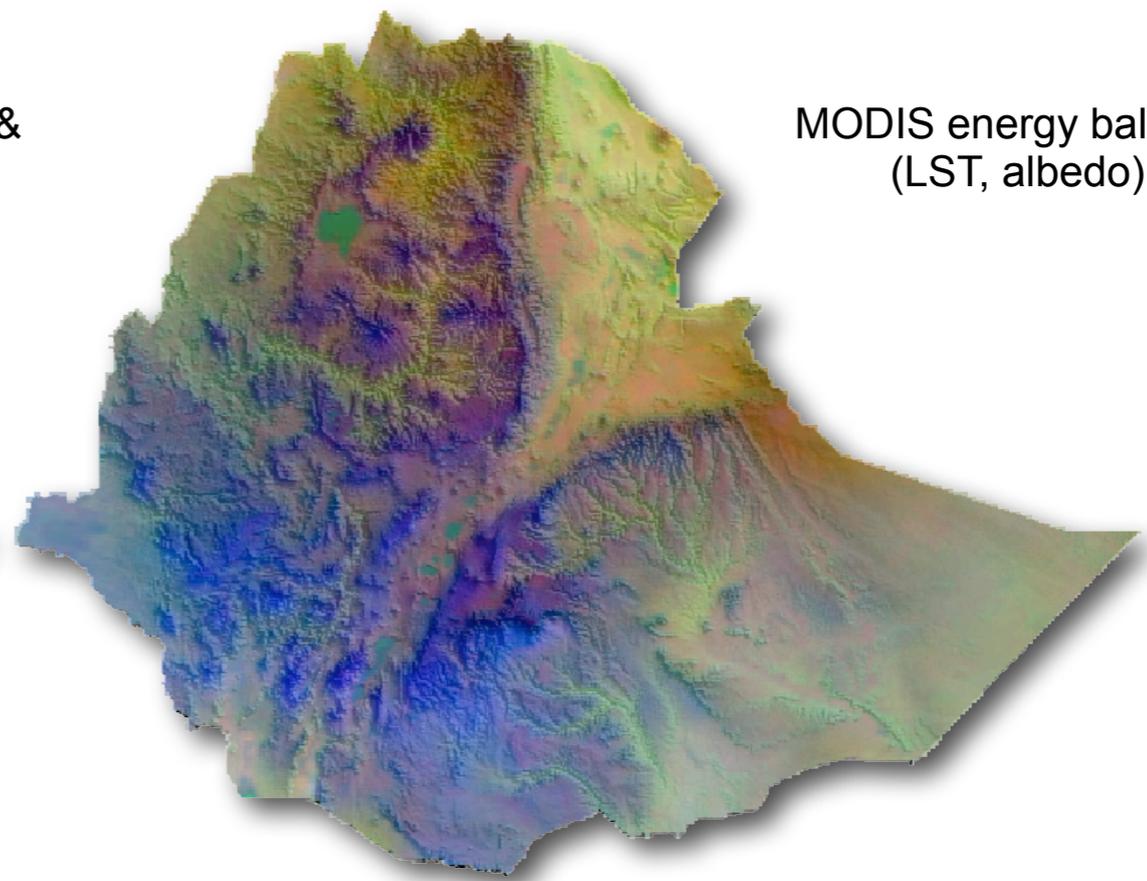


Ethiopia grids

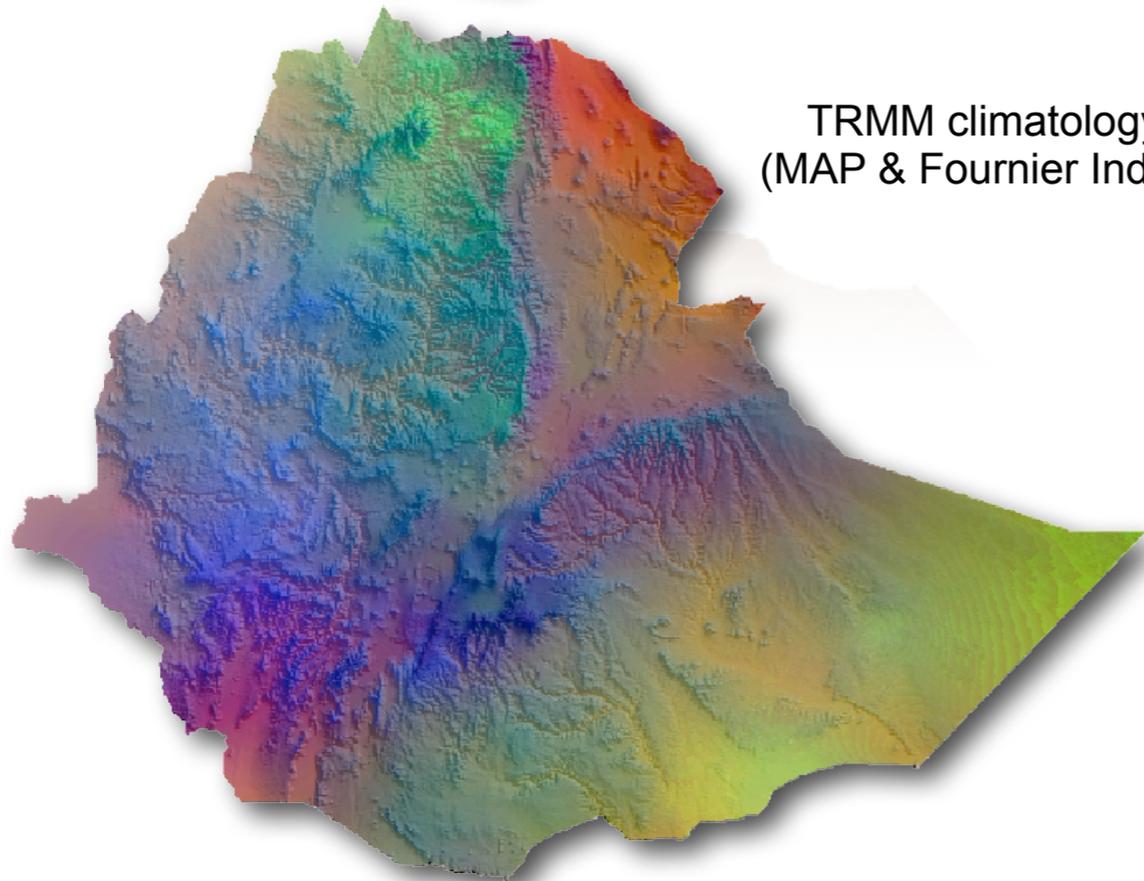
download at: https://www.dropbox.com/s/xgwxukuj2q9dgbf/ET_grids.zip?dl=0



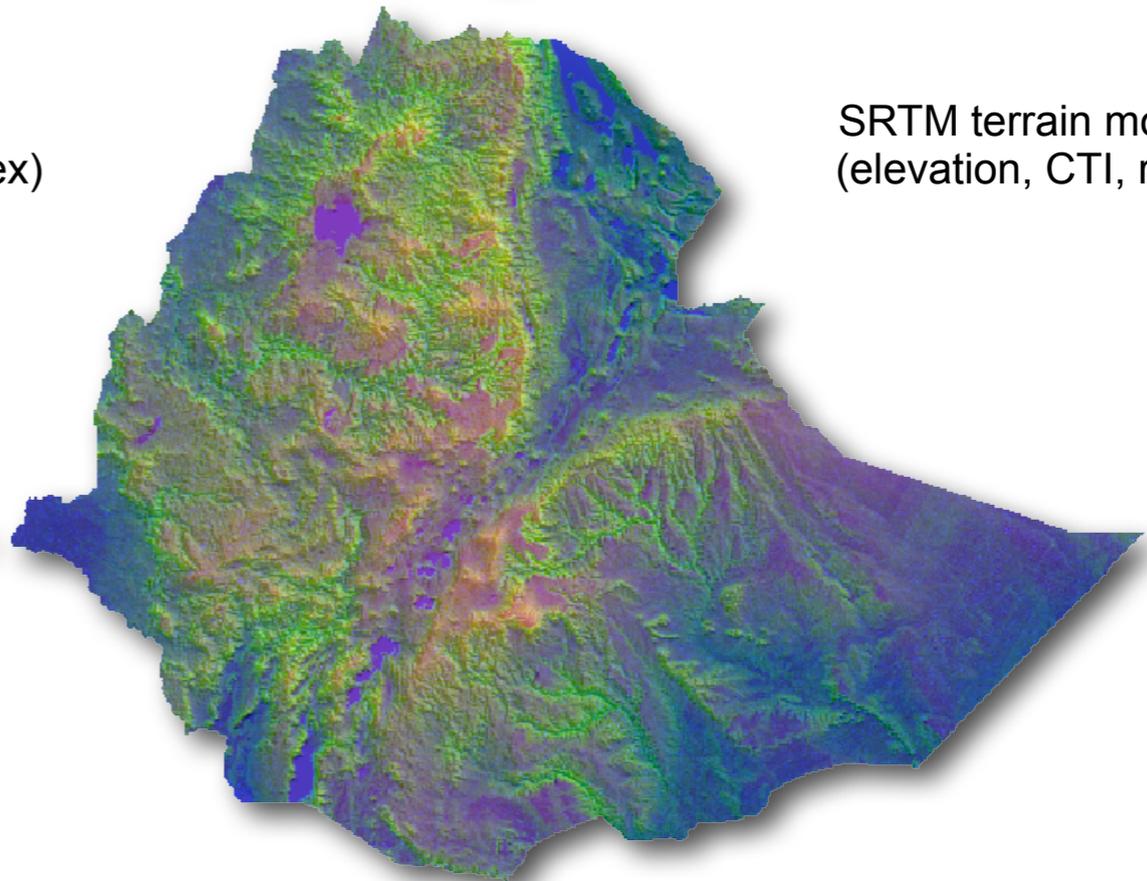
MODIS reflectance &
vegetation indices



MODIS energy balance
(LST, albedo)



TRMM climatology
(MAP & Fournier Index)

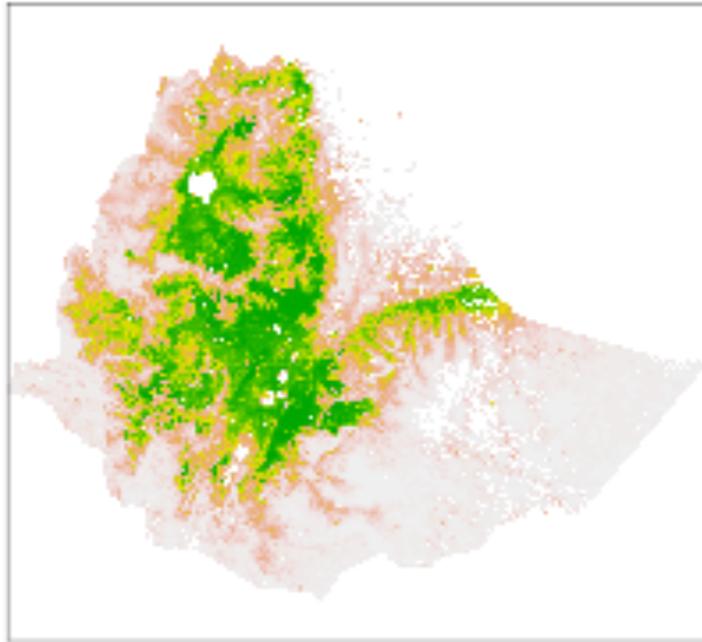


SRTM terrain models
(elevation, CTI, relief)

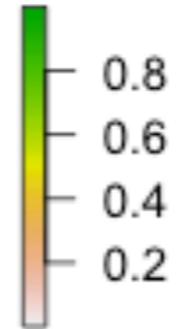
Predictions: Cropland present?

R script at: <https://github.com/mgwalsh/Geosurvey>

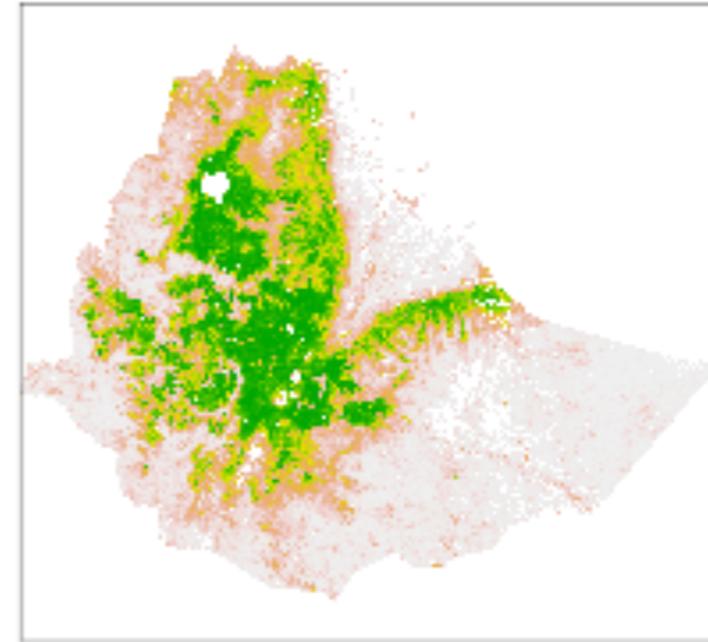
glm



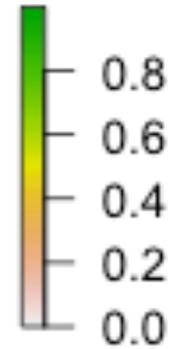
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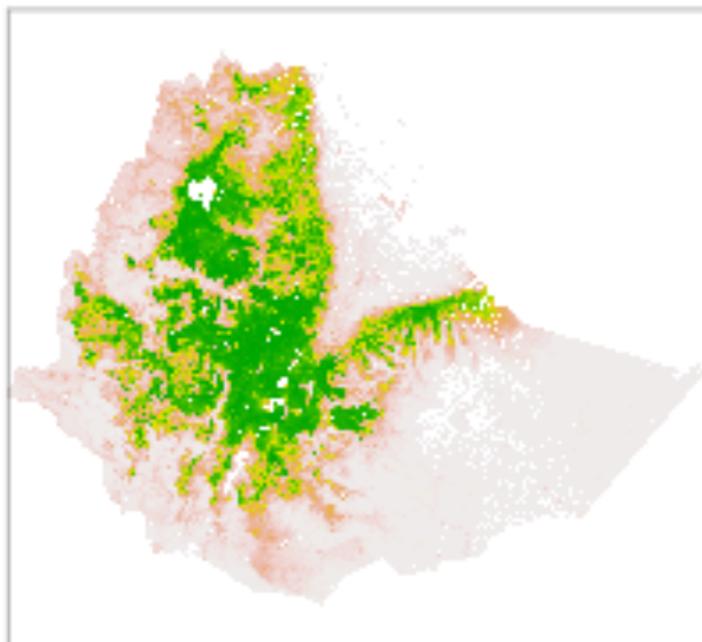
randomForest



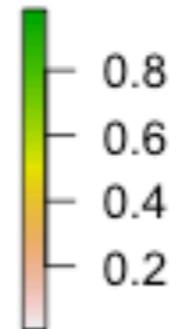
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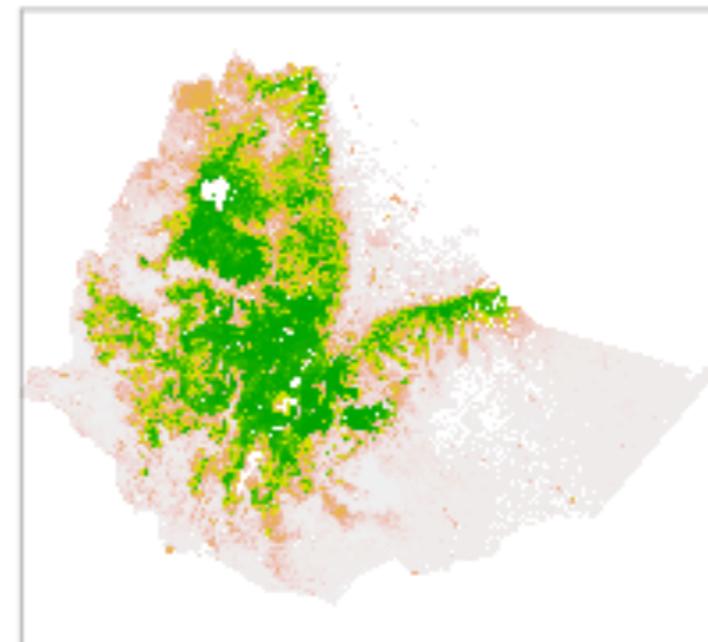
gbm



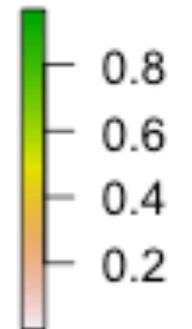
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nnet



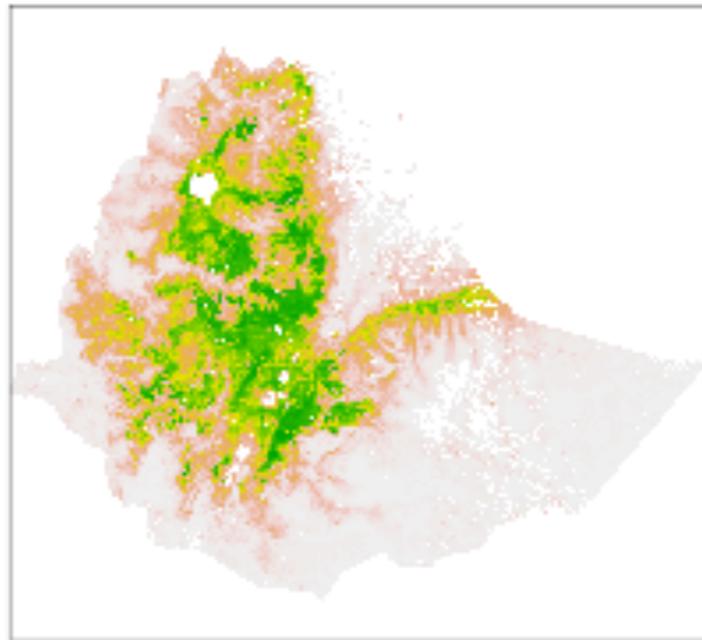
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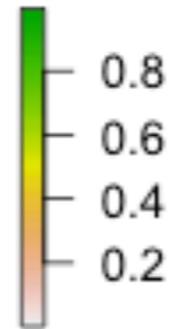
Predictions: Human settlements present?

R script at: <https://github.com/mgwalsh/Geosurvey>

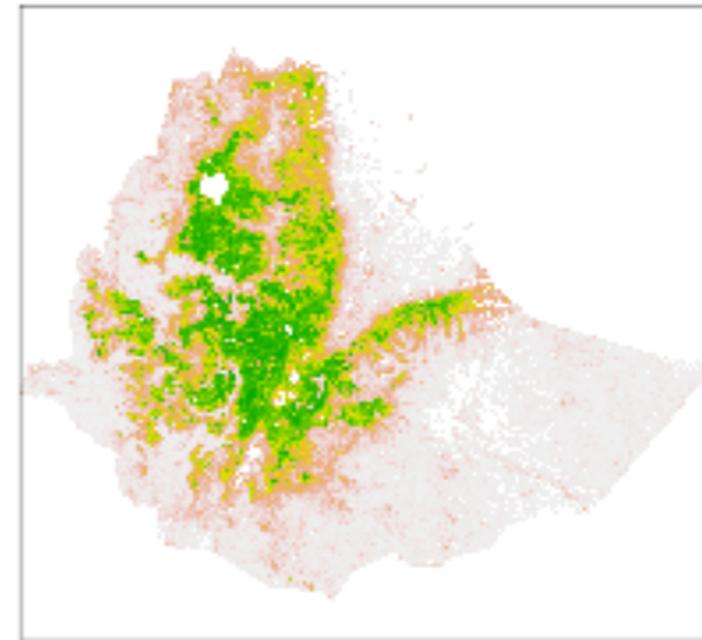
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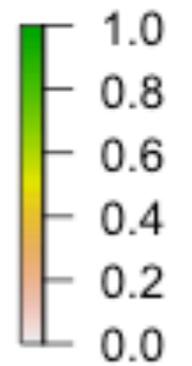
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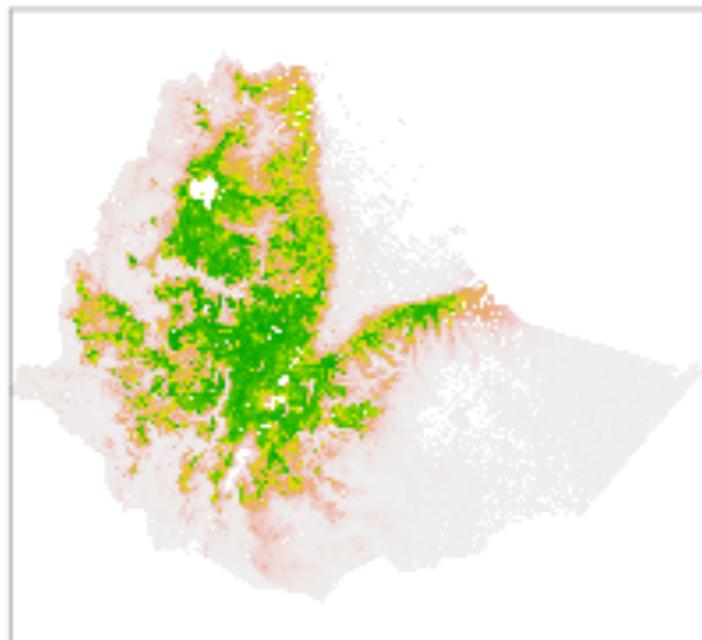
randomForest



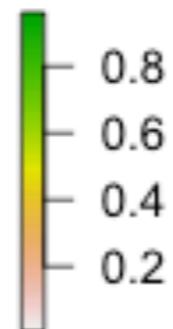
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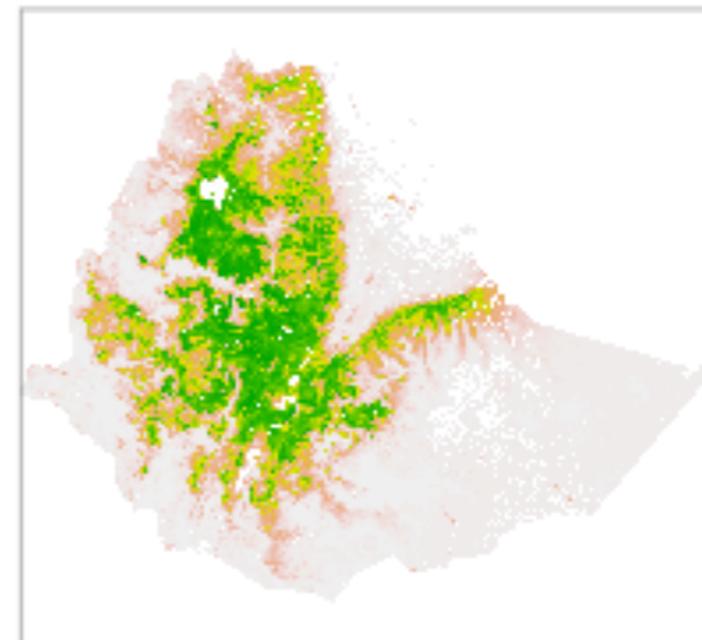
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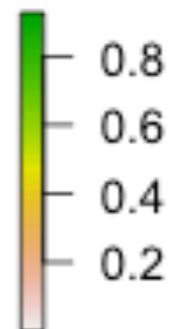
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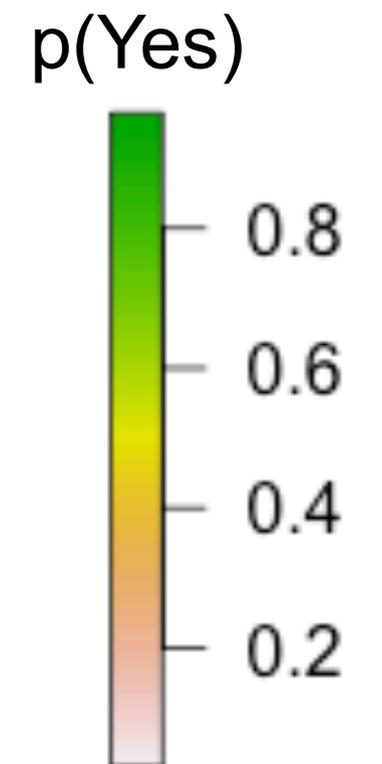
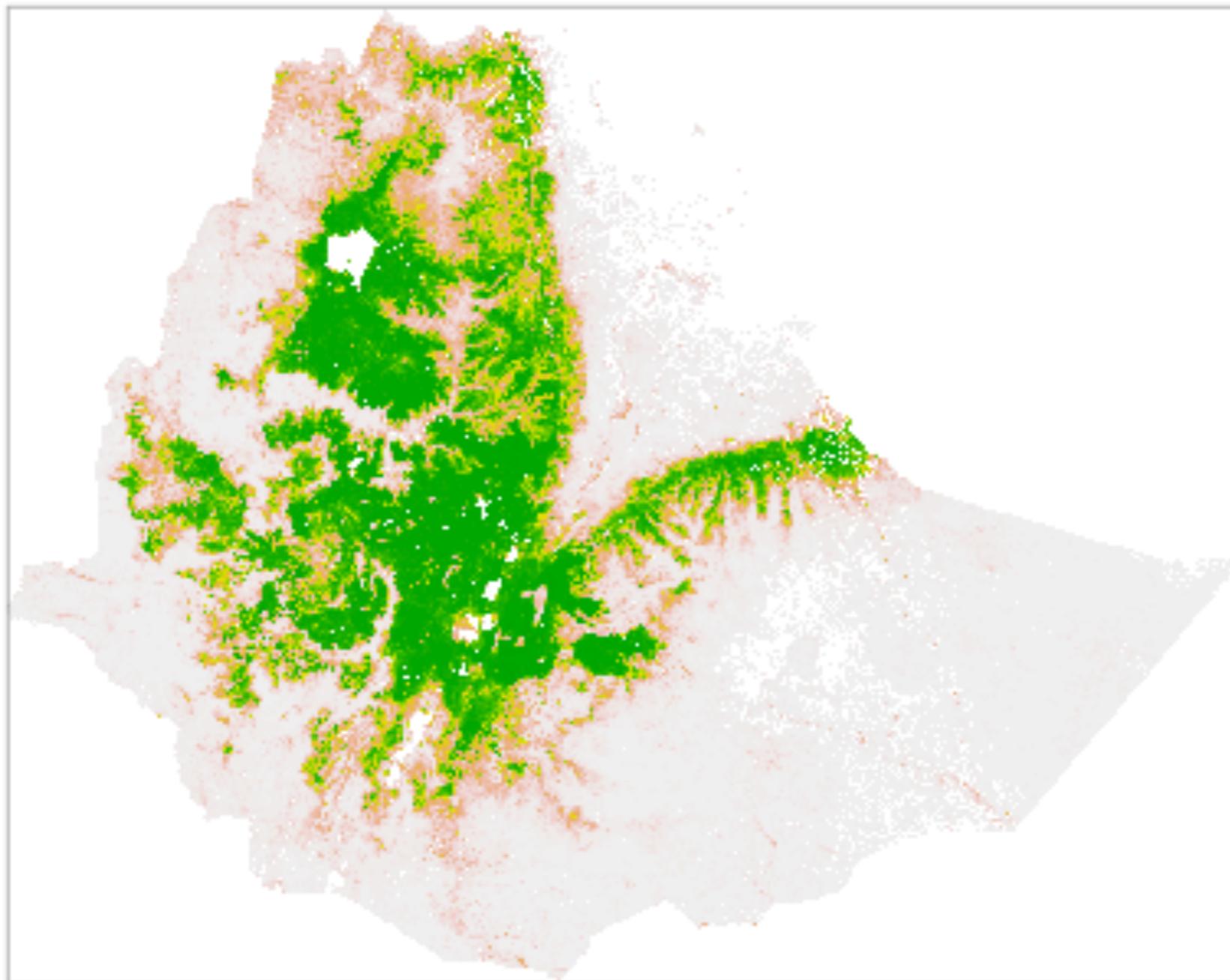


p(Yes)



Ensemble Prediction: Cropland present?

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Ensemble Prediction: Human settlements present?

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