

INTRODUCTION TO DISMO

- Software for species distribution models
- Written on **R**
- Cross-platform
- <http://cran.r-project.org/web/packages/dismo/index.html>
- Robert J. Hijmans, Steven Phillips, John Leathwick and Jane Elith
- Model evaluation (AUC)
- Multivariate environmental similarity surfaces (MESS)
- Niche equivalency and Niche overlap
- Background points
- K-fold sampling

- **Bioclim**
- **Domain**
- **Mahalanobis model**
- **Convex hull model**
- **Circle hull model**
- **Rectangular hull model**
- **Voronoid hull model**
- **Geographic distance model**
- **Boosted Regresssion Trees**
- **Link to Maxent**
- **Mechanistic models**

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- Load environmental data (as a stack of rasters)
- Calculate correlation among variables
- Load species data
- Split species records in training and testing data
- Format the data
- Define modelling options
- Compute the models
- Evaluate the models
- Spatialise the models (project them to current conditions)
- Obtain the threshold
- Calculate the threshold model
- Project the models in time and space

.TXT FILE

long lat

-6.990315 38.60562

-6.162222 39.21908

-6.486737 39.85714

-9.183864 42.94672

-9.184132 43.03677

-9.061111 42.76675

QUESTIONS?