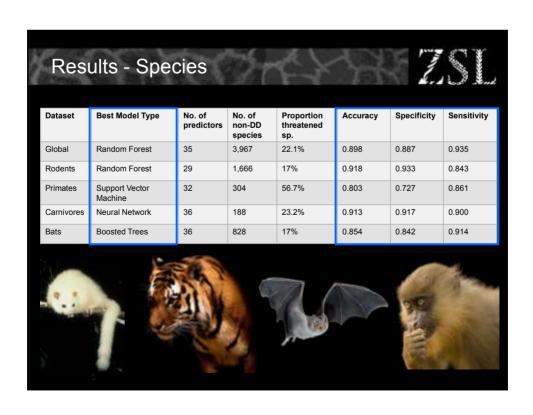
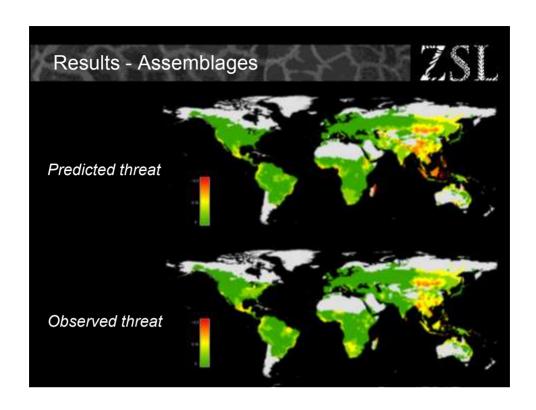


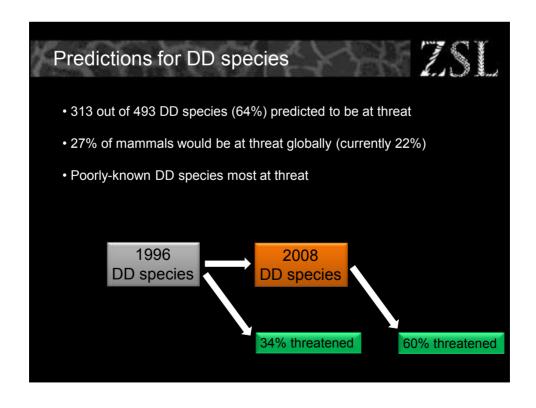
## Materials

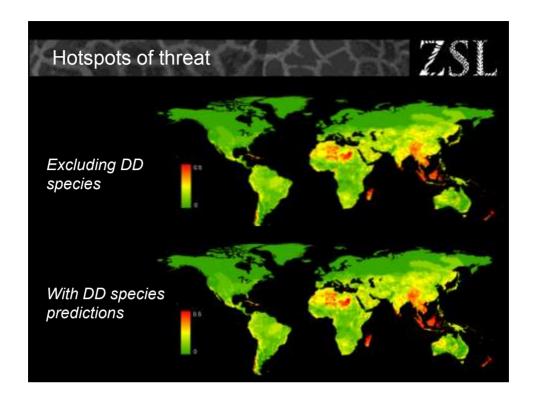


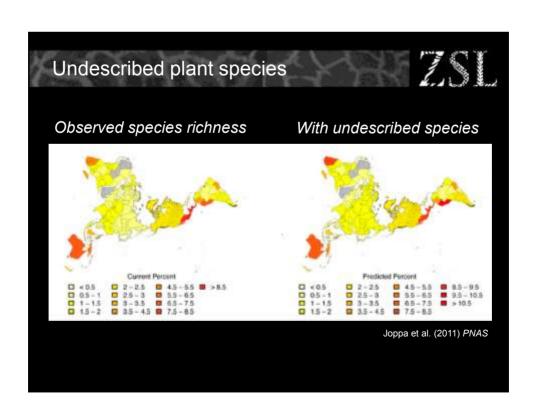
- 4,997 exclusively terrestrial mammal species
- Response variable: IUCN Red List status coded as a binary variable
- Explanatory variables: ~40
- Life history and ecological (e.g. Body Mass, Litter Size...)
- Environmental (e.g. PET, Temperature...)
- Human Impact (e.g. HPD...)
- Taxonomy
- <u>5 datasets</u>: Global, Primates, Carnivores, Bats, Rodents











## Conclusions



- ML methods show high predictive power for threatened species classification.
- Global conservation priorities unchanged, but species imperilment has been underestimated.
- Poorly-know species are disproportionately at threat.
- Taking into account information on DD species could help conserve the earth's poorly known biodiversity.

## Current work



- Predicting species extinction risk could offer considerable economic benefits.
- Bayesian Value of Information analysis.



