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SDMs are also being used in a variety of

fields including evolutionary biology, where they are used to study topics such as speciation or hybrid zones (Kozak et al. 2008)

Добавить во введение и для обсуждения

Важная задача - оценка вклада предикторов в SDM (Araujo Guisan, 2006)

CHALLENGE 4:It is unsurprizing that the choice of predictors affects the modelled spatial distribution of species.

Another important issue is the calculation of the contribution of each predictor in the model.

Therefore, except the cases where predictors are orthogonal, the deviance is not and cannot be interpreted as an absolute measure of the contribution of predictors in the model. This sensitivity weakens the utility of the model as it confounds two key factors: which are the most important predictors, and how much variance each predictor can potentially explain. Solutions to the problem have been

proposed, but again they have not been extensively used in species distribution modelling and sufficient statistical validation is lacking.

We suggest that evaluation strategies be discussed in the

context of three possible uses: description, understanding and

prediction.