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Incorporating a Process-based Land Use Variable into a Habitat Suitability Modelling and a Species Habitat into a Land Change Model: a Case of Albania

COMBINING THEMES

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What's new..?

This study elaborates results of habitat suitability models for lynx and brown bear by incorporating, respectively:

- Process-based land use variables of:
 - Forest cover change from 2000 2007, forest data derived from satellite images of the year 2000 and 2007
 - Accessibility of forest calculated by using cost distance algorithm in Geographic Information System, ArcGIS 9.3 (ESRI, Redlands, California USA)
- In lynx and brown bear habitat suitability model calculated by Laze (2013)

= Habitat suitability model increased its performance in terms of model selection and model accuracy

What's new..?

This study elaborates results of forest cover change models by incorporating respectively:

 Estimated habitat of lynx and estimated habitat of brown bear into forest cover change model calculated by Laze (2013)

= Forest cover change model increased its performance in terms of model selection

= Recommendation: new variables using satellite image data be used in modelling to:

- test new explanatory variables
- calibrate land change models, species distribution models
- reduce model uncertainties

Reference: Laze, K. (2013). Identifying and understanding the patterns and processes of forest cover change in Albania and Kosovo. Retrieved from http://digital.bibliothek.uni-halle.de/hs/content/titleinfo/1860707 doi:http://digital.bibliothek.uni-halle.de/hs/content/titleinfo/1860707 Thank you very much for your attention!