SPECIES DISTRIBUTION MODELLING OF A NEW INVASIVE MOSQUITO: A BAYESIAN APPROACH

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GENERAL PROBLEM

WHAT:

- New invasive species
- Vectors of infectious diseases

Lack of data

HOW:



Bayesian statistics

Remote sensing

WHY:

- More robust model parameter estimates to:
- Improve invasive species control

CASE STUDY

WHAT:

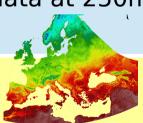
New invasive mosquito Aedes koreicus

Limited Eco/Bio information

HOW:

Priors from the better studied tiger mosquito

Remote sensing data at 250m



FINDINGS:

- Potential invasion at higher altitude
- Potential rise in distribution of infectious diseases
- **Bayesian** statistics + remote sensing = powerful tool for new invasive SDM