

# Species distribution models and fuzzy logic: Combining model predictions into threshold-free estimates of diversity and change



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# Course overview

## **Day 1**

LECTURE: Uncertainty and modelling

PRACTICAL: Compute some example models

LECTURE: Probability and favourability

PRACTICAL: Convert probability to favourability

# Course overview

## **Day 2**

LECTURES: Fuzzy sets and species distributions

Fuzzy conservation metrics









PRACTICAL: Compute conservation metrics

LECTURE: Fuzzy comparisons: similarity and change

PRACTICAL: Compute fuzzy comparisons

# Course overview

- Please turn on your **microphone** (or use the **"raise hand" button** on Zoom) and **interrupt us** whenever you have a **question** or need us to slow down or go back
- We provide example data for the practicals, but you're welcome to **use your own data** of observed and predicted **probability** values

 General Code Appearance Pane Layout Packages R Markdown Sweave Spelling Git/SVN Publishing Terminal Accessibility

Editing

Display

Saving

Completion

Diagnostics

**General**☒ Insert spaces for tabTab width ☒ Auto-detect code indentation☒ Insert matching parens/quotes☒ Auto-indent code after paste☒ Vertically align arguments in auto-indent☒ Soft-wrap R source files☐ Continue comment when inserting newSurround selection on text insertion: Keybindings: **Execution**☐ Always save R scripts before sourcing☐ Focus console after executing from sourceCtrl+Enter executes: **Snippets**☒ Enable code snippets

- read the comments in the scripts!
- tick this to **see full lines** without having to scroll right

OK

Cancel

Apply