**Centre for Biological Control – 2023 Species Distribution Modelling Short Course**

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I will be offering the first 3-day Species Distribution Modelling Short Course between 21-23 February 2023 at the CBC premises in Makhanda and virtually via Google Meet. This course will cover the basics of Species Distribution Modelling via a series of short theoretical lectures, and demonstrate the process of fitting, analysing and interpreting SDM models built using the R statistical software programme with a complete worked example. No prior R experience is required but is highly recommended. By the end of the course, you should be able to take the course materials and adapt the R code to fit an SDM model to your own study taxon.

**Agenda:**

**Tuesday 21st February 2023:**

9am – 10.30am: Introduction to species distribution models (lecture)

11am – 12.30 noon: Climate / topographical data (lecture and R)

2pm – 3.30 pm: Species GPS data (lecture and R)

4pm – 5 pm: Background (lecture and R)

**Wednesday 22nd February 2023:**

9am – 10.30am: Multicollinearity (lecture and R)

11am – 12.30 noon: Spatial autocorrelation (lecture and R)

2pm – 3.30 pm: Model tuning (lecture and R)

4pm – 5pm: Q/A

**Thursday 23rd February 2023:**

9am – 10.30am: Model fitting (lecture and R)

11am – 12.30 noon: Model evaluation (lecture and R)

2pm – 3.30 pm: Plotting maps (lecture and R)

4pm – 5pm: Q/A