



MINISTERIO DE
EDUCACIÓN Y
CIENCIA



CONSEJO SUPERIOR DE
INVESTIGACIONES
CIENTÍFICAS

MUSEO NACIONAL DE
CIENCIAS NATURALES

Workshop

Modeling species extinctions risk under climate change

7-11 April 2008

Organizers:

Miguel B. Araújo (National Museum of Natural Sciences, CSIC, Madrid, Spain)

Resit Akçakaya (Stony Brook University, New York, USA)

Richard Pearson (American Museum of Natural History, New York, USA)

Sponsored by:

EC FP6 MACIS project

Participants:

Barbara Anderson (University of York, UK)

Barry Brook (University of Adelaide, Australia)

Mar Cabeza (National Museum of Natural Sciences, CSIC, Madrid, Spain)

Lee Hannah (Center for Applied Biodiversity Science, CI, Washington DC, USA)

David Keith (NSW Department of Environment and Climate Change, Australia)

Enrique Martinez-Meyer (National Autonomous University of Mexico, Mexico)

Helen Regan (University of California, Riverside, USA)

Lydia Ries (University of California, Santa Barbara, USA)

Wilfried Thuiller (University of Grenoble, CNRS, France)

Students:

Maria Triviño (National Museum of Natural Sciences, CSIC, Madrid, Spain)



Goals:

1. Explore approaches for bringing together population dynamic models (e.g. as implemented in RAMAS GIS software) with bioclimate envelope models and examine the consequences of such combined models for forecasts of species distributions shifts under climate change scenarios. Case studies will be developed using fine-resolution data (biological, climate and land use) for South African plants, Alpine Plants, Californian Plants, Australian plants, UK mammals, Mexican mammals, and Finnish butterflies.
2. Write a number of funding applications necessary to take the work of this workshop further.

Program:

7 April (Seminar room at the "Museo Nacional de Ciencias Naturales")

- 15h - Welcoming
- 15h15 - Brief introduction to RAMAS GIS software (theory)
- 16h30 - Coffee break
- 17h - Brief introduction to RAMAS GIS software (practical)
- 19h – Planning for the week
- 21h Dinner ("Residencia de Estudiantes")

8 April (Seminar room at the "Museo Nacional de Ciencias Naturales")

- 9h – Preparation of case studies
- 10h30 – Coffee break
- 11h – Preparation of case studies
- 13h30 – Lunch
- 14h30 – Break out groups: case studies; planning ahead
- 16h30 – Coffee break
- 17h – Break out groups: case studies; planning ahead



9 April (Seminar room at the "Museo Nacional de Ciencias Naturales")

9h - Break out groups: case studies; planning ahead

10h30 – Coffee break

11h – Break out groups: case studies; planning ahead

12h - Seminar by Barry Brook: Multiple Working Hypotheses in theory and practice (...or have one's scientific cake and eat it too)

13h30 – Lunch

14h30 – Break out groups: case studies; planning ahead

16h30 – Coffee break

17h – Break out groups: case studies; planning ahead

21h Dinner ("Residencia de Estudiantes")

10 April (Seminar room at the "Museo Nacional de Ciencias Naturales")

9h - Break out groups: case studies; planning ahead

10h30 – Coffee break

11h – Break out groups: case studies; planning ahead

13h30 – Lunch

14h30 – Break out groups: case studies; planning ahead

16h30 – Coffee break

17h – Wrap up

21h Dinner (Tapas down town)

11 April (Seminar room at the "Museo Nacional de Ciencias Naturales")

12h - Seminar by Resit Akçakaya: Approaches for Dealing with Variability and Uncertainty in Threatened Species Assessments