

Phyoclimatic modelling workshop



Chris Yesson

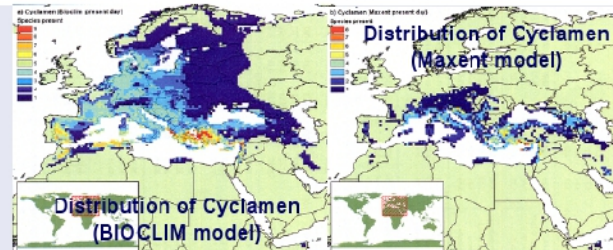
Course: Phyoclimatic modelling from present to past



Applications till May 21:
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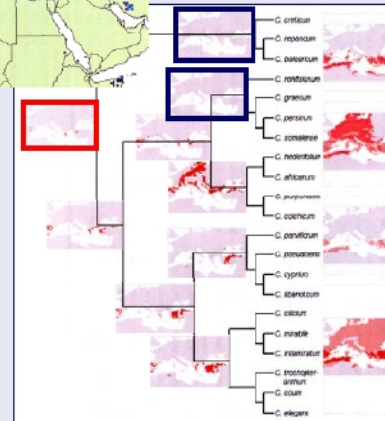


Cyclamen



Phylogeny Cyclamen
with Mean annual
temperature range
plotted on it

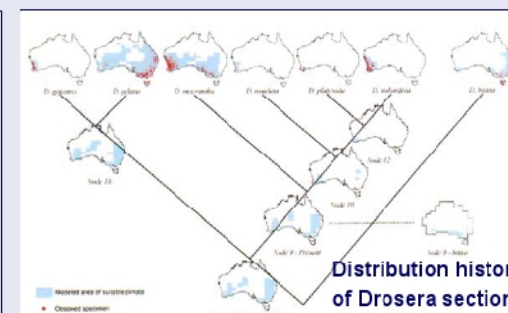
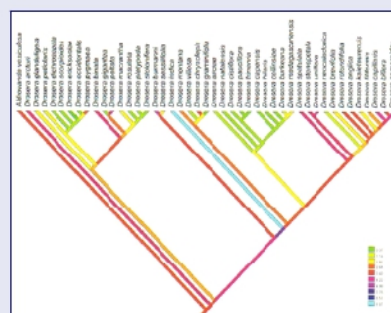
Distribution history
of Cyclamen



by: **Chris Yesson** (London) & **Alistair Culham** (Reading)
May Thursday 27th & Friday 28th
Room F 112, Van Steenis, Einsteinweg 2, Leiden



Drosera



Distribution history
of Drosera section

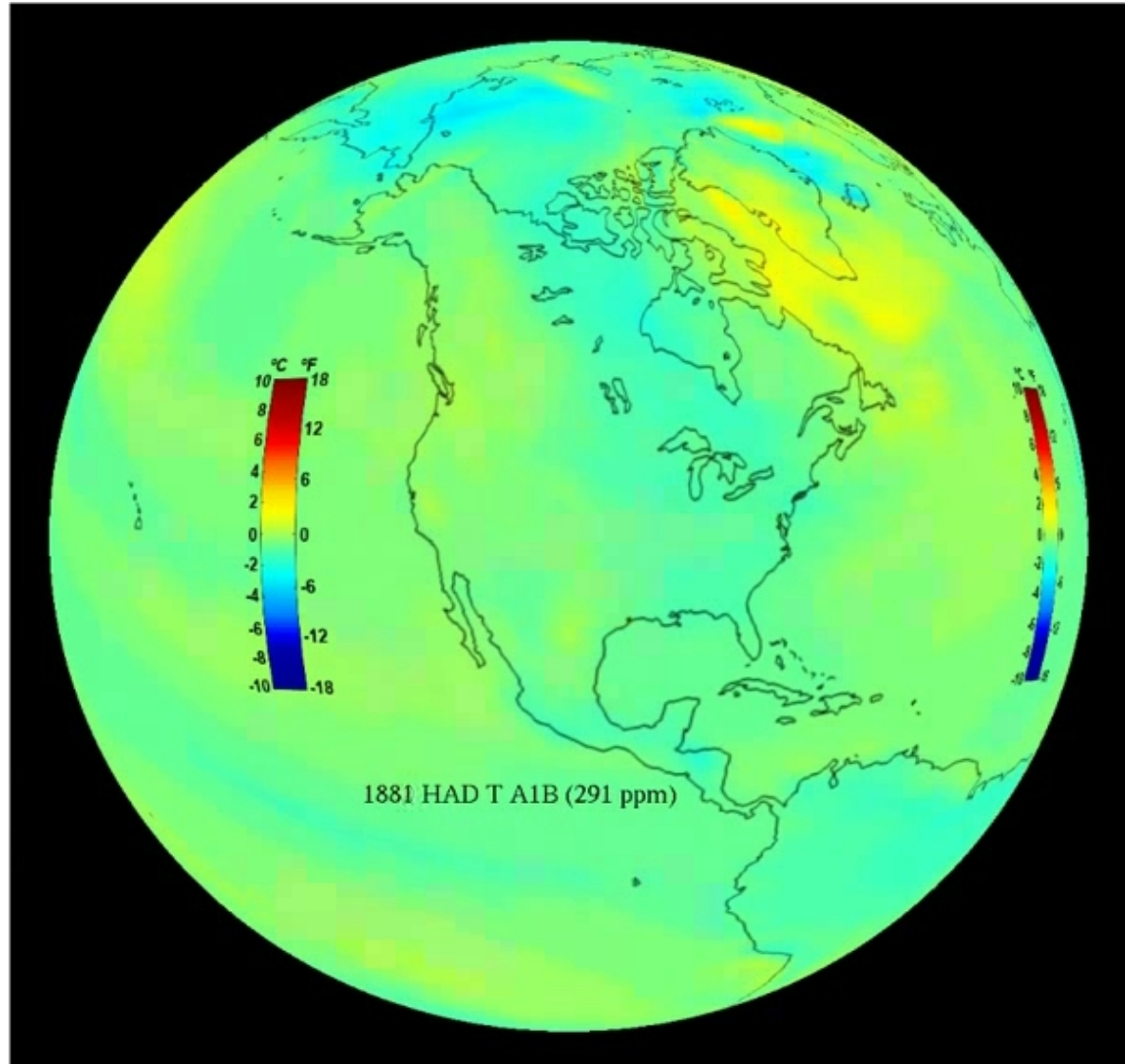
The relationship between an organism and its environment is a close one



Climate change is a pressing issue



- A1B scenario, CO₂ reaches 717ppm in the year 2100
- If we want to understand species reactions to climate change lets look at the past reactions

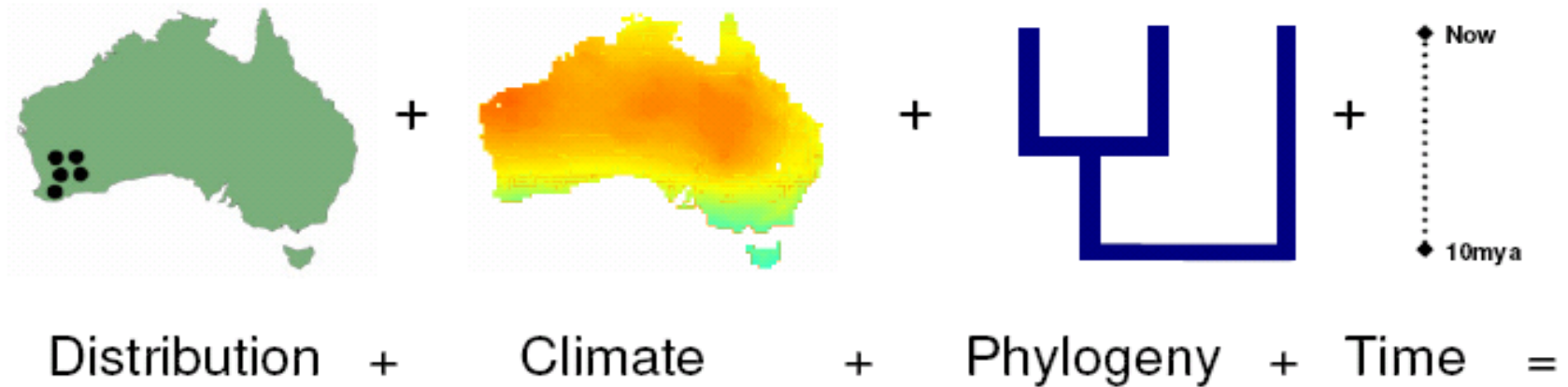


Past climates are still with us
You can still see the scars

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Phyloclimatic modelling in a nutshell



Phyloclimatic models

This workshop

1. Will take you through the steps needed to develop Phyloclimatic Models
2. Discuss limitations and strengths of data and analytical techniques
3. Give examples of the use of Phyloclimatic Modelling

Timetable



Monday 7th October

9:00 – Introduction

9:30 – Data quality - Lecture

10:30 – Data quality – Practical using QGIS

11:30 -12:00 – Break

12:00 – Niche Modelling – Lecture

13:00 – Niche Modelling – Practical

14:00 -16:00 – Lunch

16:00 – Open practical – use what you have learnt today; favourite species

Tuesday 8th October

9:00 – Molecular Dating of Phylogenies - Lecture

10:00 – Molecular Dating of Phylogenies – Practical

11:00-11:30 – Break

11:30 – Niche correlations - Lecture

12:00 – Niche correlations – Practical

12:30 – Phyoclimatic models – Lecture

13:00 – Phyoclimatic models - Practical

14:00-16:00 – Lunch

16:00 – Lecture - How do we evaluate our Phyoclimatic Models?

17:00 – Discussion

Website



Phyloclimatic Workshop - Xal: x

The Zoological Society of London [GB] <https://www.zsl.org/science/ios-staff-students/dr-chris-yesson/phyloclimatic-workshop-xalapa-2012,2011,AR.html>

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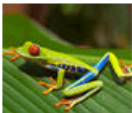
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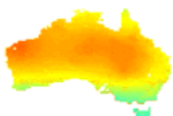



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Phyloclimatic Workshop - Xalapa 2012

Phyloclimatic Modelling Workshop conducted by Chris Yesson at INECOL, Xalapa, Mexico from 7-8th October 2012.

Prior to the start of the workshop you will need to install the following software. [R statistical software package](#), [openModeller niche modelling software](#) and [QGIS Quantum GIS software](#). These are open source projects that are free to download and have versions for all operating systems.

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[Timetable \(76 KB\)](#)

Introduction -

Data Quality & GIS

Lecture - [Data Quality Lecture \(3.6 MB\)](#)

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Don't forget the biology!

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Photo: Alastair Culham