

“Issues in Diversity”

UNIVERSITY of OULU
OULUN YLIOPISTO



Graduate course in community ecology

University of Oulu, 16h/2 units

**Teacher: Professor Susan Harrison, University of California,
Davis, USA**

Timing: 03.09. – 07.09.2012

Course outline:

Lecture 1. Introduction to Measuring and Partitioning Diversity

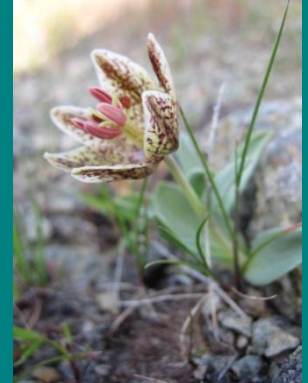
- I. Methodological issues in diversity partitioning
- II. Relating dissimilarity to environmental difference
- III. Phylogenetic alpha and beta diversity
- IV. Functional diversity

Research Talk 1. Testing Spatial Ecological Theory on Serpentine Outcrops in California

Lecture 2. Diversity and Productivity at Multiple Scales

- I. Productivity and diversity
- II. Disturbance and herbivory
- III. Beta and gamma diversity

Research Talk 2. Causes of Phylogenetic Diversity in Californian Plant Communities





Lecture 3. Latitude and Diversity

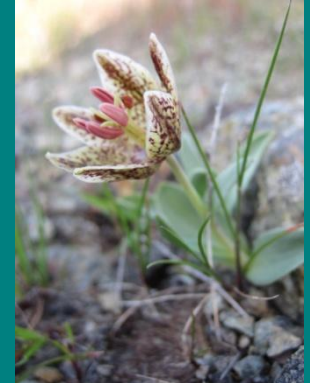
- I. What is the pattern?
- II. Eight interesting theories

Research Talk 3. Alpha and Beta Diversity: New Insights from the Original Data Set

Lecture 4. Placing a Value on Diversity

- I. Diversity and “ecosystem function”
- II. Economic valuation – an introduction

Research Talk 4. Ecological Contingency in Climate Change Effects on Plant Communities



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