

# Class 14a: Biogeography



# Evolutionary development

- Darwin's theory of natural selection

# Migration or dispersal

# Extinction

- Environment may change faster than evolution

# Competition and cooperation

# Competition and cooperation

# Plant basics

# Plant adaptations

- *Xerophytic* adaptations: for dry conditions

# Plant adaptations

- *Hygrophytic* adaptations: for wet conditions

# Plant biogeography

- Succession and *climax vegetation*

# Plant biogeography

- Forests:
- Woodlands:
- Shrublands:
- Grasslands:

# Plant biogeography

- Deserts:
- Tundra:
- Wetlands:
  
- *Vertical zonation:*

# Plant biogeography

- Microclimates
- *Riparian*

# Animal basics

- What's an animal?

# Animal adaptations: physiology

# Animal adaptations: behavior

# Animal biogeography

# Wallace Line

- Based on plate tectonics, ice ages
- Alfred Russel Wallace (1860s)