

Urban Natural Resources Geog 410 U / 510

- Monday 14:00 – 17:40
- Office: 424 – I Cramer Hall
- Office Hours: TR 13:30-15:00
- Email: changh@pdx.edu

Announcement

- Article review due on the 21th
- Colloquium Speaker on the 23th
- Quiz: 2:00 – 2:30 PM
- Paper discussion
- Discussion for term paper topics

Some important concepts...

● Stability

The tendency of a system to return to a position of equilibrium when disturbed.

● Resilience

A measure of the amount of disturbance that can be absorbed before the ecosystem moves from one stable state to another.

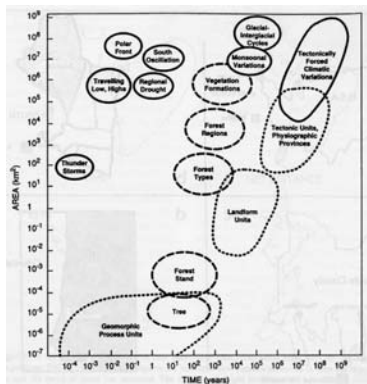
Some references...

● New ecology

Zimmerer, K.S. (1994) Human geography and the "New Ecology": The Prospect and Promise of integration, *AAAG* 84: 108-125.

● Complexity

Manson, S. M. (2001) Simplifying complexity: a review of complexity theory, *Geoforum* 32: 405-414.



Source: Meyer et al. (1992) *Geography's Inner World*. Rutgers University Press.

Cultural theory

- Nature flat (capricious)
- Nature balanced (robust)
- Nature anarchic (fragile)
- Nature resilient
- Nature evolving

Further reading: Gunderson and Holling eds. (2002) *Panarchy: Understanding transformations in human and natural systems* (2002) pp. 3-22

Cantor and Rayner (1994) Changing Perceptions of Vulnerability in *Industrial Ecology and Global Change*. pp. 69-83.