Department of Civil Engineering
2011 Summer Semester
Yoshimura Chihiro

Environmental Statistics

Outline #10 Classification (13 June 2011)

1. Overview of classification techniques
   - Hierarchical / Non-hierarchical
   - Monothetic / Polythetic
   - Agglomerative / Divisive
   - Dendrogram

2. Cluster analysis
   1) Data preparation
      Transformation & Standardization
   2) Distance measure
      Binary coefficients, Distance Measure, Correlation Coefficients, and Others
   3) Cluster formation
      Single-link clustering, Complete-link clustering, and Ward's technique

3. TWINSPAN | Two-way indicator species analysis

4. Exercise (10-1, 10-2)