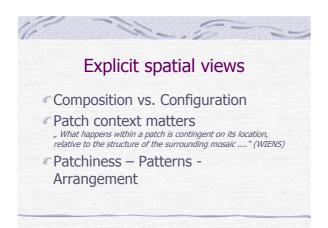
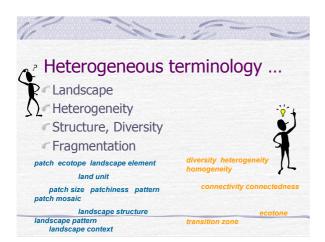
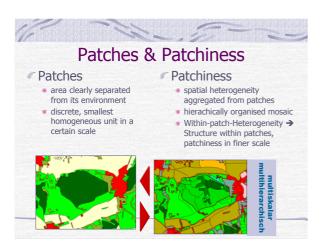


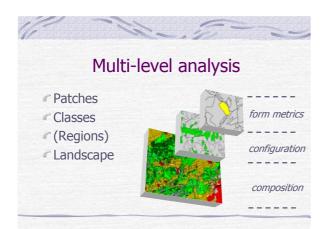


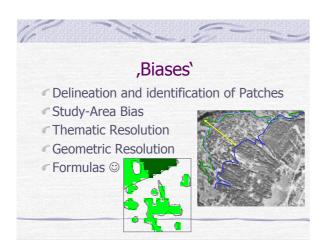
## Development Quantitative description of ecological units Indices ... since 70ies (PEET, PIELOU) Island Theory in Biogeography (MacARTHUR & WILSON) Dominance, Diversity, Area-Species Relationships \*\*Boies\*\* Landscape Metrics\*\*



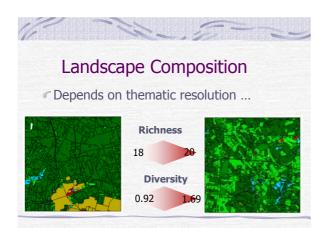


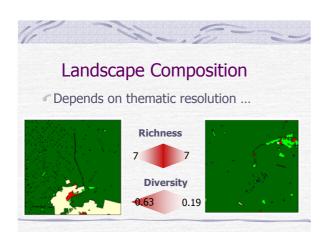


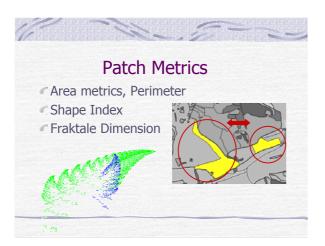


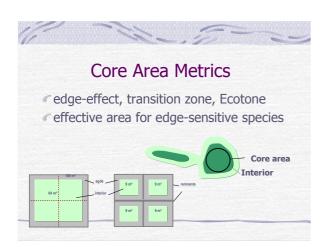


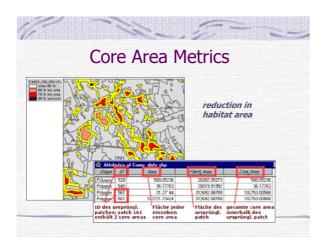
## Landscape Composition Spatial diversity (HABER) Richness, Diversity, Dominance, Evenness Based on information theory SHANNONS Diversity index $= -\sum_{i=1}^{SP_i \cdot \ln P_i} P_i \cdot \ln P_i$ SHANNONS Evenness $-\sum_{i=1}^{SP_i \cdot \ln P_i} P_i \cdot \ln P_i$ $= -\sum_{i=1}^{SP_i \cdot \ln P_i} P_i \cdot \ln P_i$

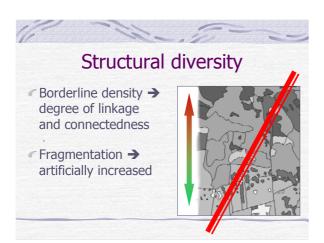


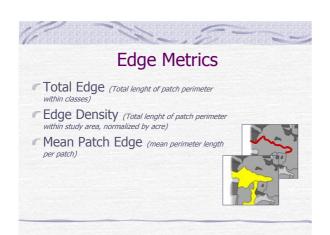


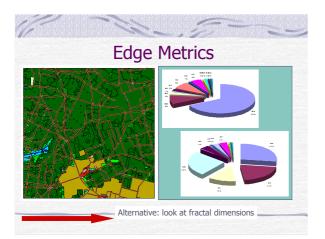


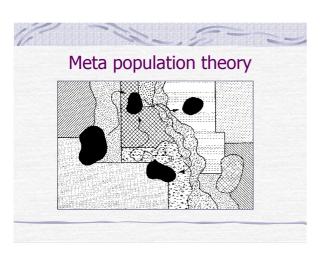


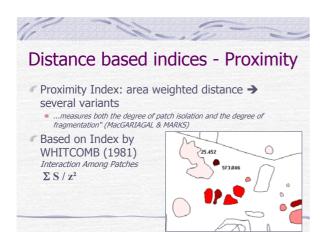


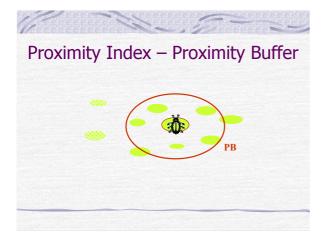


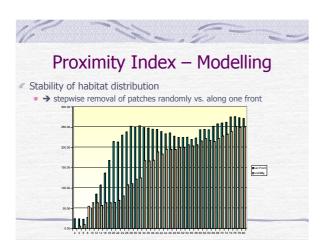


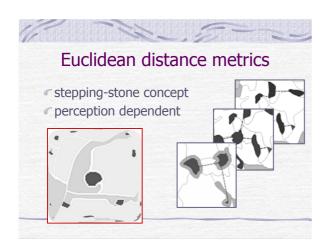


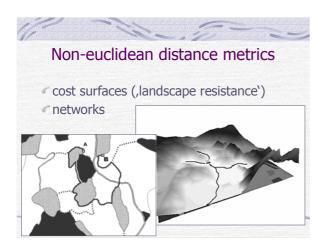












## Software FRAGSTATS (MacGARIGAL & MARKS) Fragstats Arc\* Patch Analyst (REMPEL) Habitat Analyst (REMPLE) RULE (GARDNER) Animal Movement (USGS) ClaraT (MILNE) LEAP II