

BIODIVERSITY

Biodiversity should be handled in three levels;

1. Species diversity
2. Genetic diversity
3. Ecosystem diversity

What is Species?

- Morphological species concept
- Biological species concept
- Phylogenetic species concept

Concepts to know;

- Population
- Community
- Species
- Species diversity
- Genetic diversity
- Ecosystem
- Ecosystem diversity
- Succession
- Species interactions: Mutualism, Symbiosis, Predation, Parasitism etc.

The most diverse biomes on Earth

- Tropical rain forests
 - Coral reefs
- Great tropical lakes
- Deciduous forests

Factors that increase diversity

- Climate and environmental diversity
- Topography, geological age and size of habitats

How many species on Earth?

Ecological Economy and Value of Direct Use

Ecological economy; a transdisciplinary and interdisciplinary field of academic research addressing the interdependence and coevolution of human economies and natural ecosystems.

Determination of economic value of biological
diversity

Indirect values

- Ecosystem productivity and carbon retention
- Protection of soil and water sources
- Waste treatment and protection of nutrients
- Climate regulation
- Species interactions
- Environmental indicators
- Recreation and ecotourism