

CHAPTER 52-56 NOTES AP BIOLOGY

CHAPTER 52: AN INTRODUCTION TO ECOLOGY AND THE BIOSPHERE

Ecology: The study of the interactions between organisms and their environments

Environmental components

Abiotic components: nonliving components such as air, soil particles, water

Biotic components: living organisms

Ecological levels of study: Organism → Population → Community → Ecosystem → Landscape → Biosphere

Biogeography: study of the past and present distribution of individual species

Factors affecting the distribution of organisms: Dispersal, behavior and habitat selection, biotic factors, abiotic factors, climate

Biome: ecosystem identified by its climax community, covered by a broad geographic region

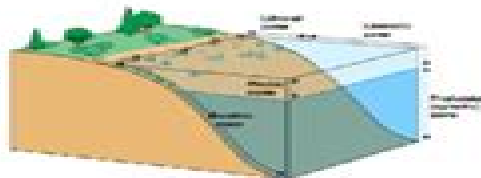
Aquatic biomes

Ponds: small bodies of standing water

Lakes: large bodies of standing water

Lake zonation

- The lake is divided into different "zones" determined by depth and distance from the shoreline
- littoral zone
- limnetic zone
- profundal zone
- Photic zone
- Benthic zone



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Lei Shi



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