

The Physical Environment (3): Soils

I. Definition of Soils

- A. Mineral Material**
- B. Organic Material**

II. Soil Formation

A. Factors in Soil Formation

- 1) Parent Material
 - a. Igneous Rock
 - b. Sedimentary Rock
 - c. Metamorphic Rock
- 2) Climate: Radiant Energy and Water
 - a. Leaching
- 3) Topography
- 4) Biota

III. The Soil Profile

A. Major Horizons

- 1) O Horizon
- 2) A Horizon → topsoil
- 3) E Horizon
- 4) B Horizon
- 5) C Horizon
- 6) R Horizon (Bedrock)

IV. Properties of Soil

- A. Physical Properties**
- B. Chemical Properties**

IV. The Living Soil

A. Pore Spaces

- 1) Water
- 2) Bacteria
- 3) Unicellular Algae
- 4) Protozoa
- 5) Rotifers
- 6) Nematodes
- 7) Many Others

V. Soil Classification and Distribution

VI. Mismanaged Soil