# SOILS AND LAND USE

*"Forests precede civilizations, deserts follow them"* Francois Rene de Chateaubriand 1768-1848

# A. A Renewable Resource ?

#### **B.** Historical Effects of Soil Loss

- 1. Greece
- 2. North Africa
- 3. American Prairie: the Dust Bowl

# C. Current Soil Loss in Asia and Africa

# **D.** Causes of Soil Degradation

# **E.** Tropical Deforestation

- 1. Rates of forest loss
- 2. Causes of deforestation
  - a) poor people clear land to grow food
  - b) poor harvesting fuel wood faster that regeneration
  - c) commercial logging
  - d) supplying fast food industry
- 3. Consequences of deforestation
  - a) increased greenhouse gases
- 4. Potential for agriculture in tropical areas
  - a) poor soil structure

- b) low in soil nutrients due to:
  - (1) location of nutrients
  - (2) continuous respiration and decomposition
  - (3) highly leached
- 5. Deforestation increases albedo
- 6. Moving soils reconnect Gondwana Land