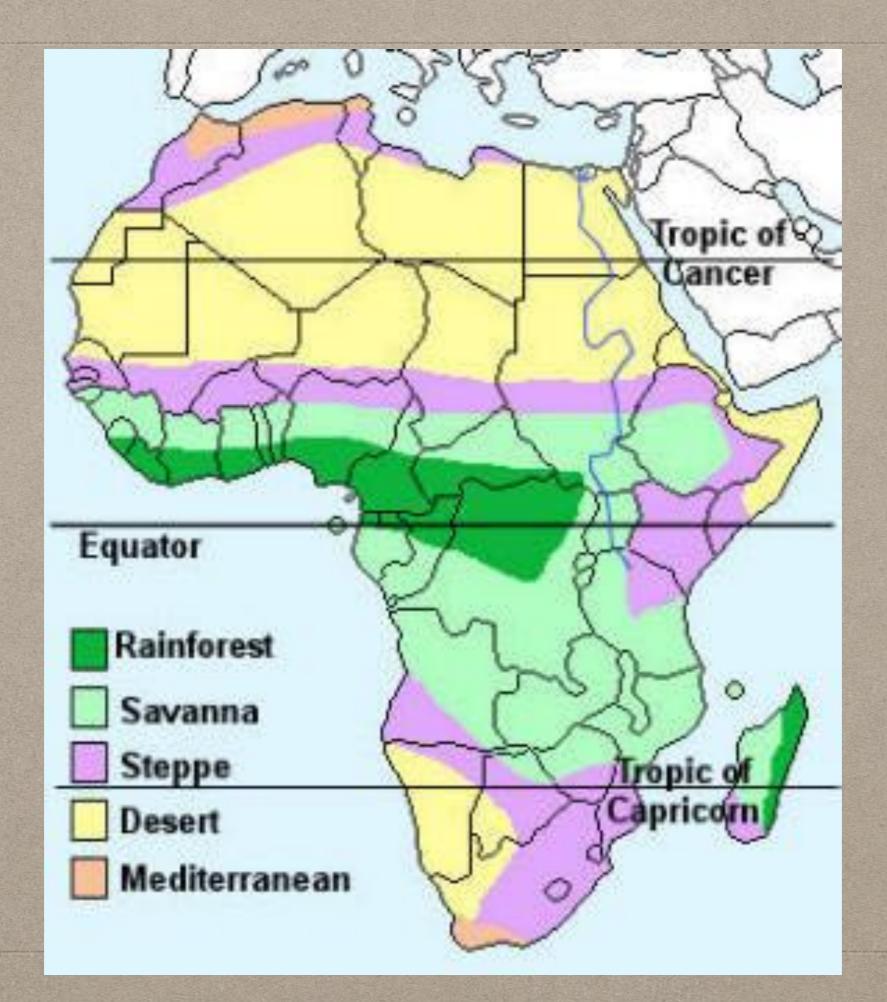
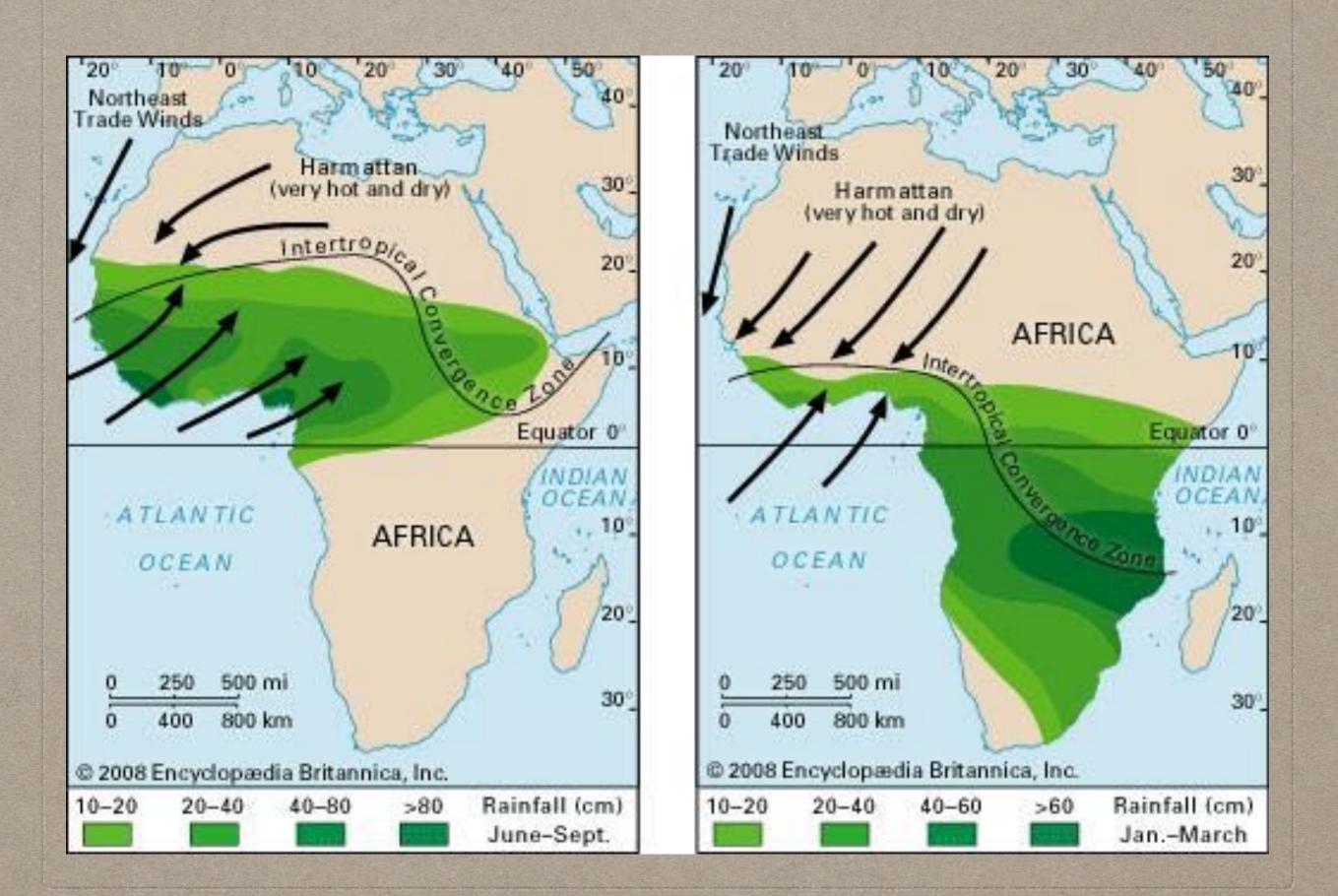
UNIT 5 AFRICA PHYSICAL GEOGRAPHY SG 1 - PART II

III. CLIMATE & VEGETATION

 A. The four main climate zones are tropical wet, tropical wet/dry (split into monsoon & savanna), semiarid, and arid.
Other climate zones include marine west coast, humid subtropical, and highland, which covers the smallest area.

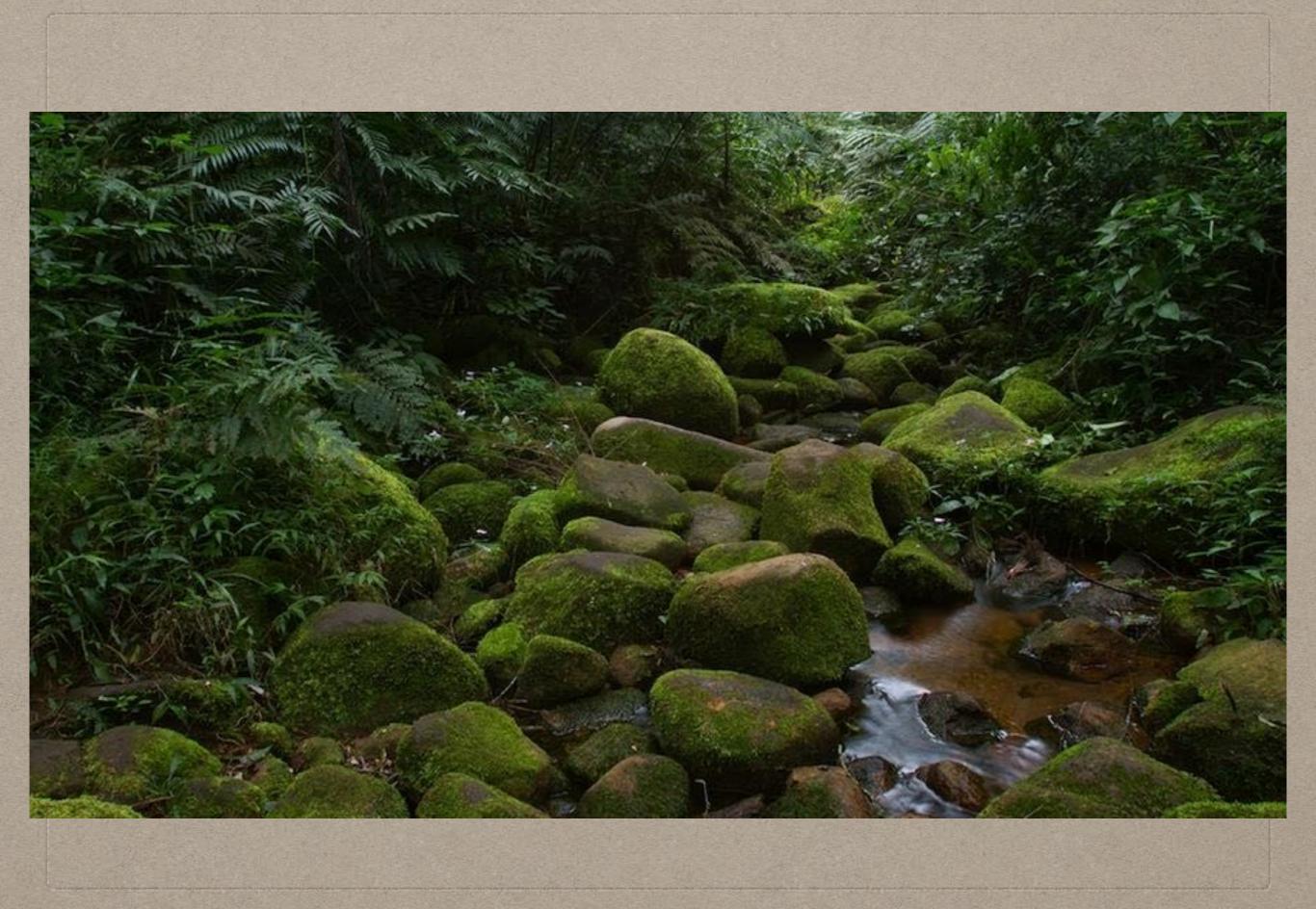


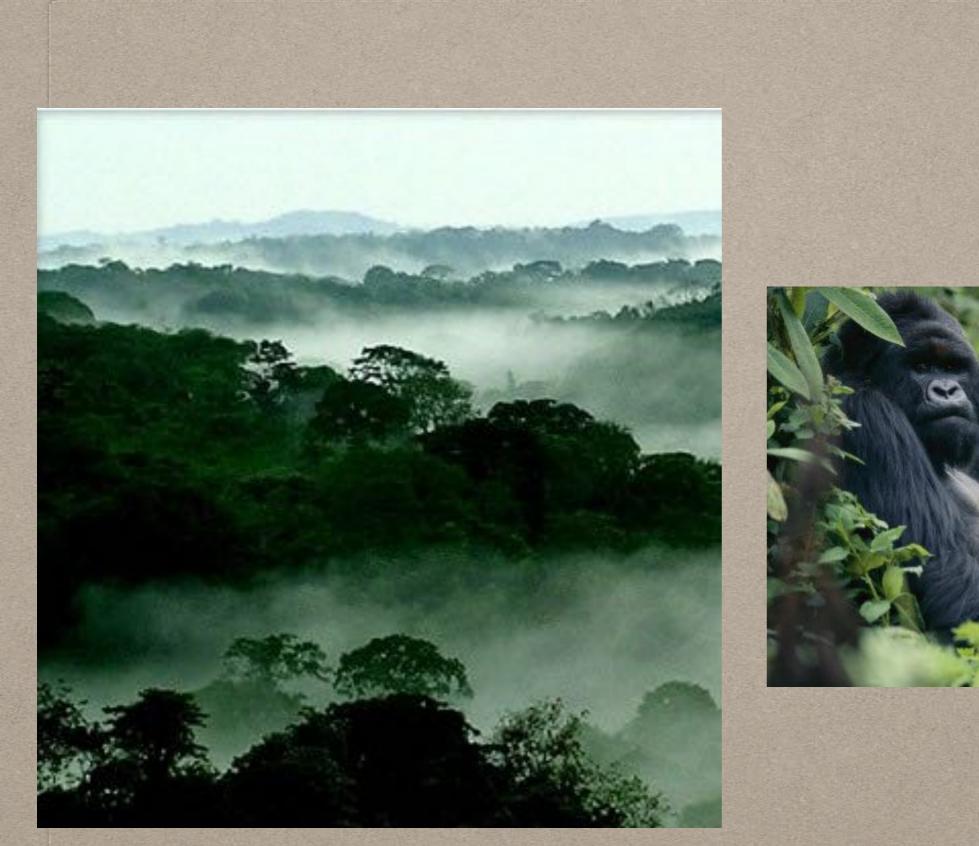
- The Sahara Desert is dominated by high pressure due to its latitude at about 30°N of the equator.
- 2. The ITCZ produces heavy rainfall near the equator year round and causes seasonal monsoons along the central east coast of a Africa.
 - a. The ITCZ brings the rainy season north of the equator in April & south of the equator in October making summer the main rainy season in Africa.



IV. NATURAL RESOURCES

- A. Tropical forests the world's secondlargest expanse of humid equatorial rain forest, the Ituri, lies in the Congo Basin of central Africa;
 - 1. Conditions are constantly warm to hot –precipitation falls year-round;
 - a. Commercial logging and agricultural clearing have degraded the western and southern fringes of the Ituri



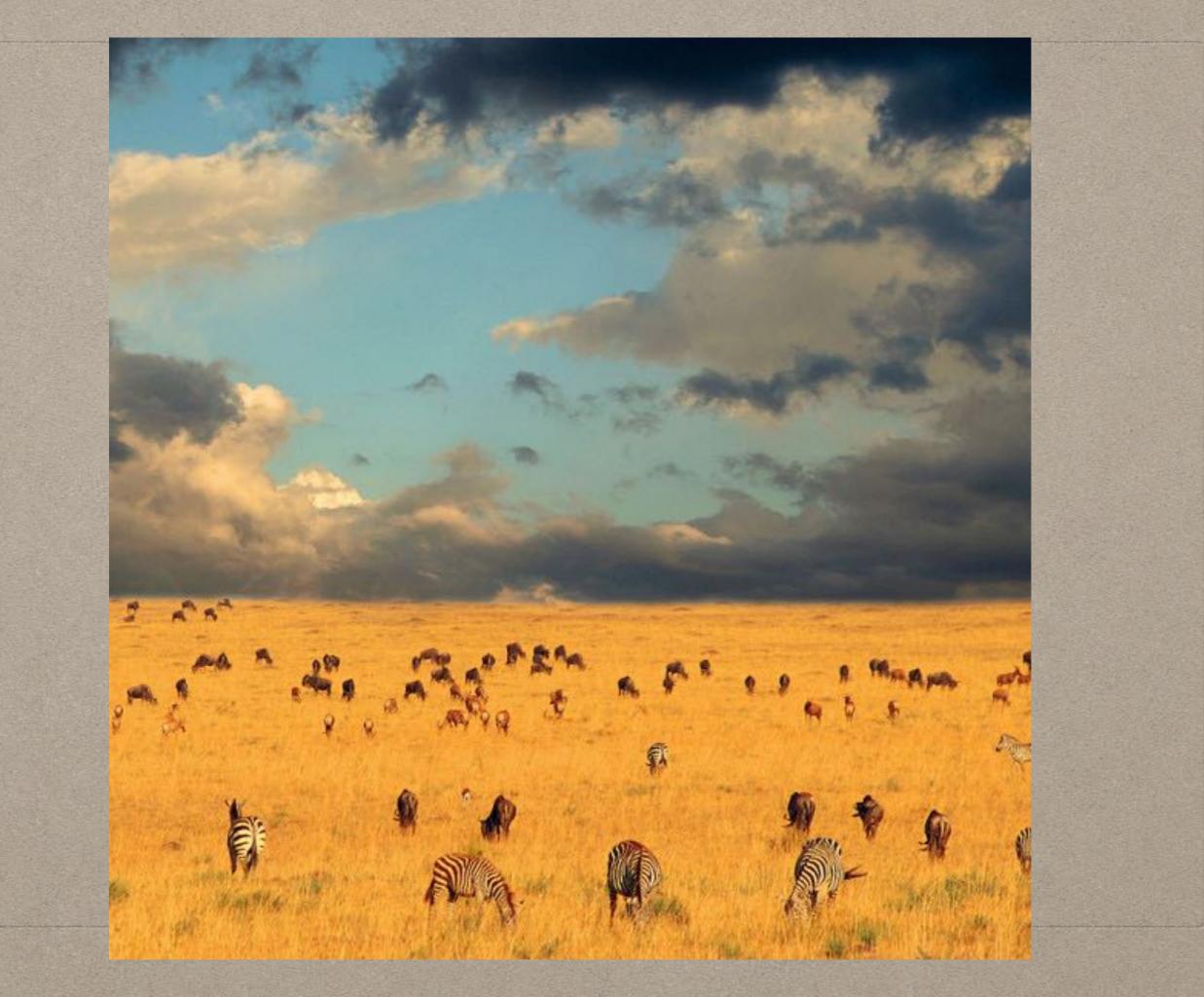




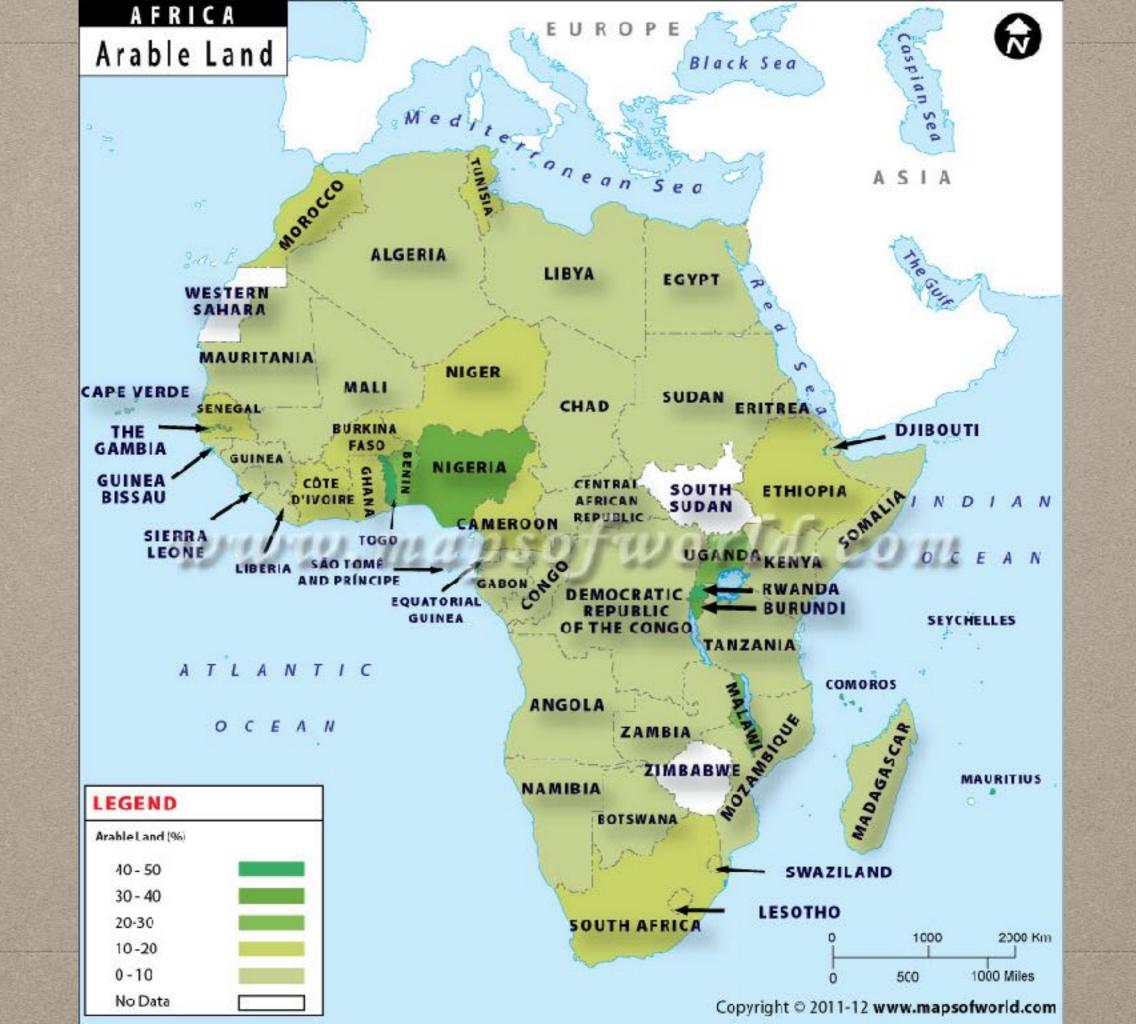
- B. Savannas (tropical grasslands) surrounding the Central African rain-forest belt is an arc of tropical wet and dry savannas
 - 1. North of the equator rain generally falls from May to October, with rainfall decreasing northward; climatic conditions south are reversed;
 - 2. Savannas are critical habitat for region's large fauna (examples: elephants, rhinos, giraffes, lions, wildebeests)
 - 3. The most famous savanna, is the Serengeti Plain.







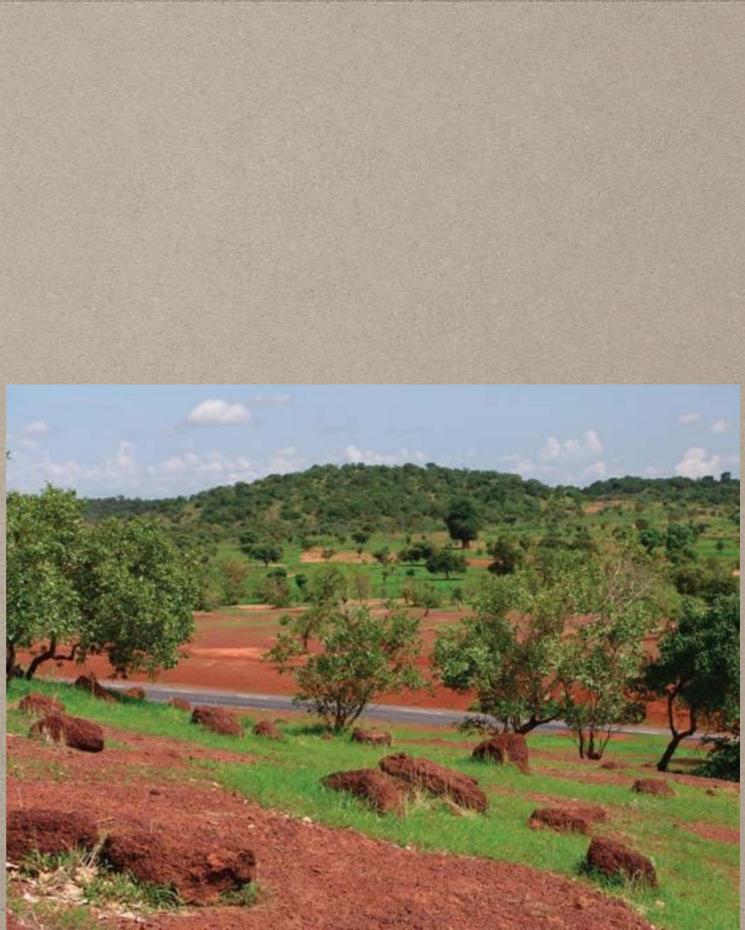
- C. Soils Africa lacks an abundance of wide alluvial river plains (the Nile). These alluvial soils are very fertile. Africa's soils are not compared to other continents.
 - 1. Most of Africa's soils are relatively infertile, but some areas are noted for natural soil fertility-and these areas support denser settlement. Fertile regions include:
 - a. the Nile River valley the only significant alluvial flood plain
 - a. the Rift Valley–around Rwanda and Burundi (volcanic soil)
 - b. and the Ethiopian Highlands (volcanic soil)



V. ENVIRONMENTAL ISSUES

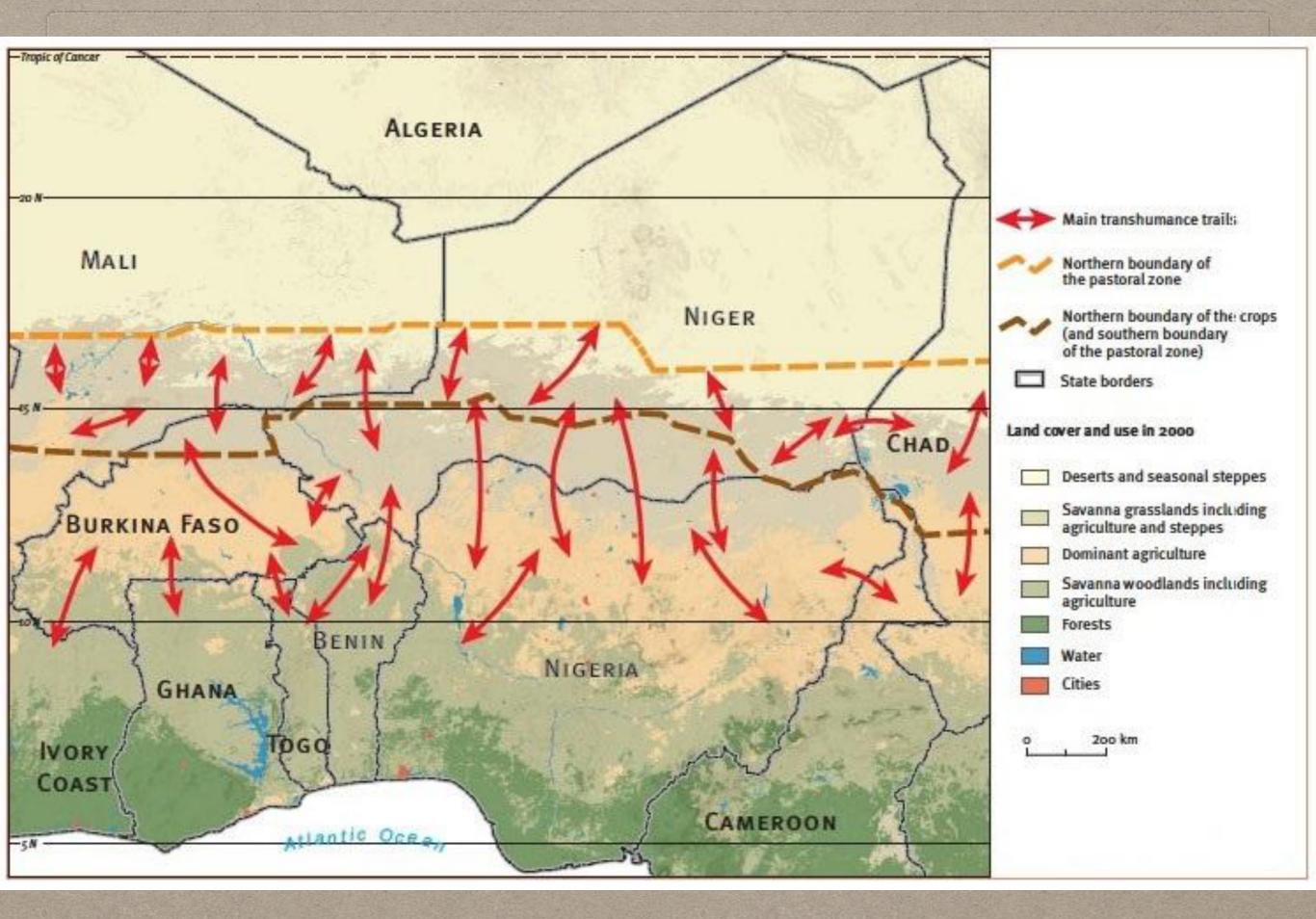
- A. The Sahel is a zone of ecological transition between Sahara to the north and the wetter savannas and forests to the south & is going through a process of desertification
- Desertification is the process by which fertile land becomes desert, typically as a result of drought, deforestation, or inappropriate agriculture



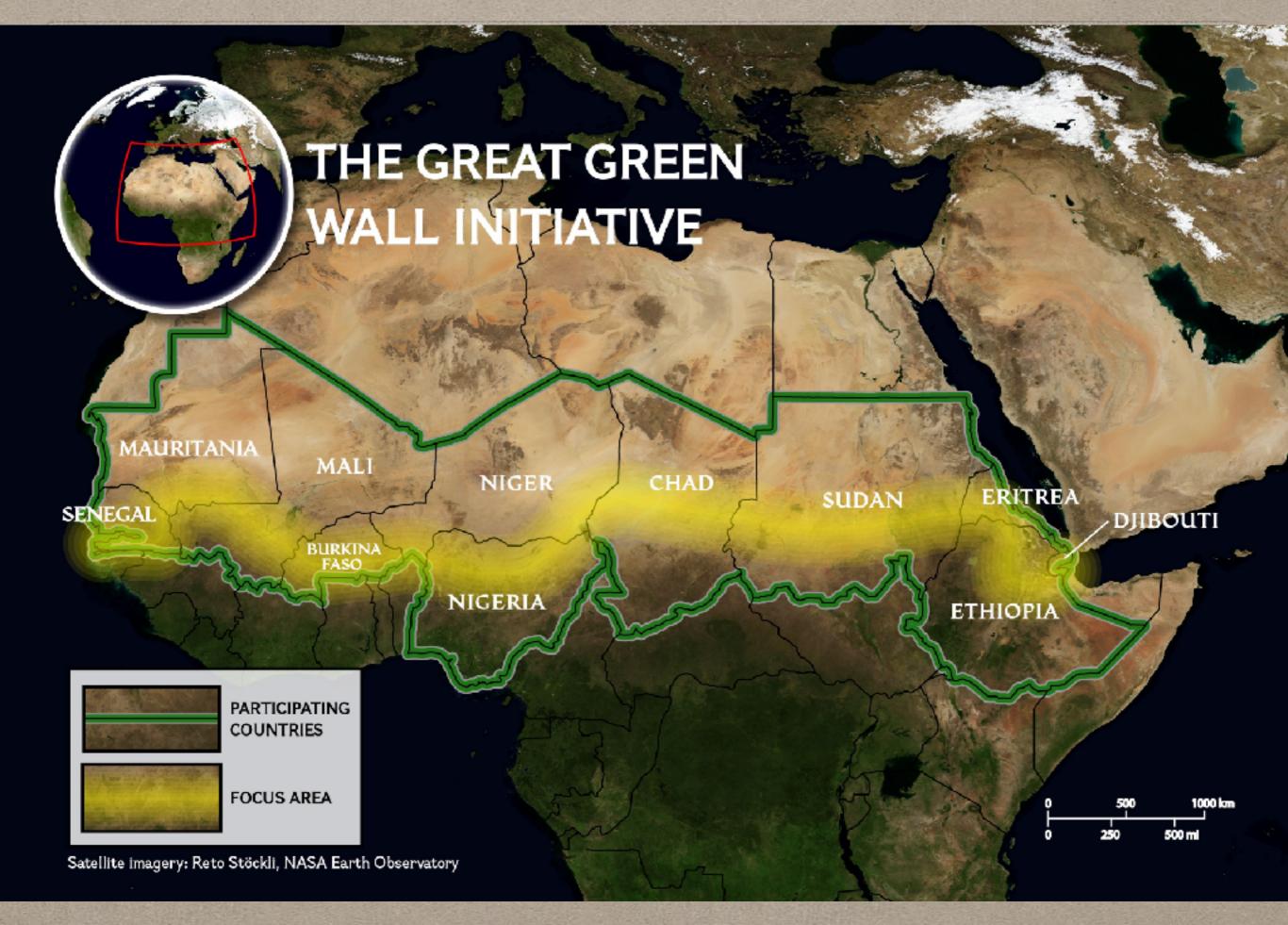




 1. life in the Sahel depends on balance of limited rain, drought-resistant plants and patterns of animal *transhumance*, or pastoral nomadism, which is movement of animals between wetseason and dry-season pasture

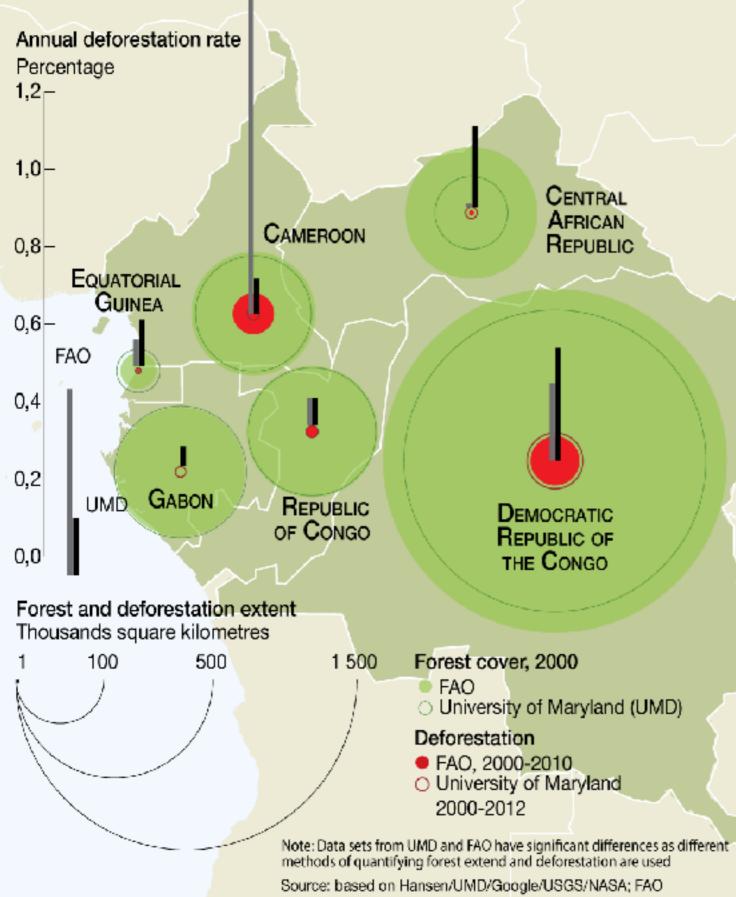


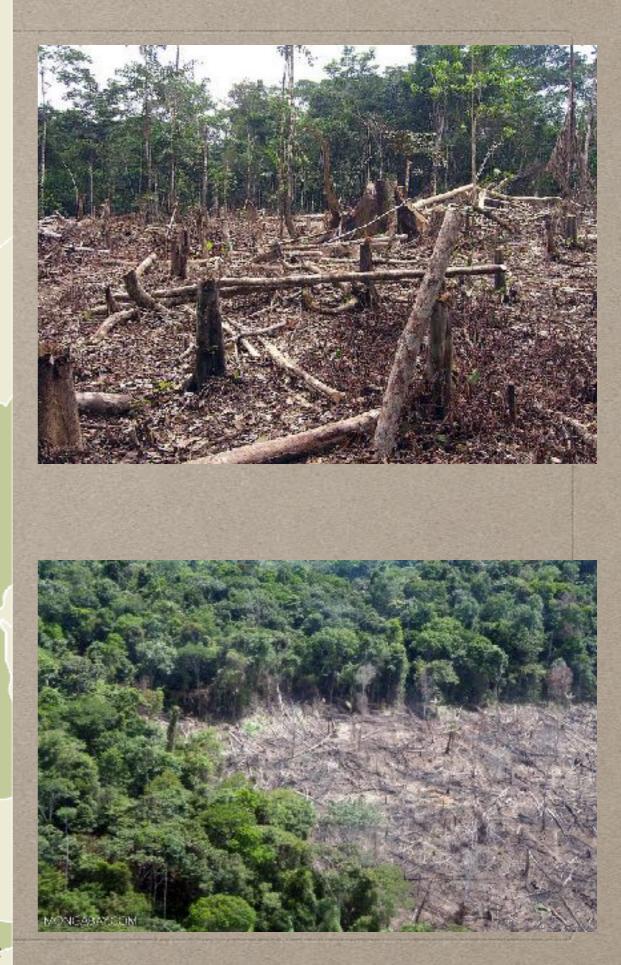
- 2. Disagreement exists over basic causes of desertification and drought in the Sahel. However, some reasons are as follows:
 - a. Overpopulation too many people in the region possibly due to unsound settlement patterns by European colonists in the 1800s and 1900s.
 - a. Overgrazing by cattle & other herbivores.
 - c. Over farming by farmers (including being inefficient.



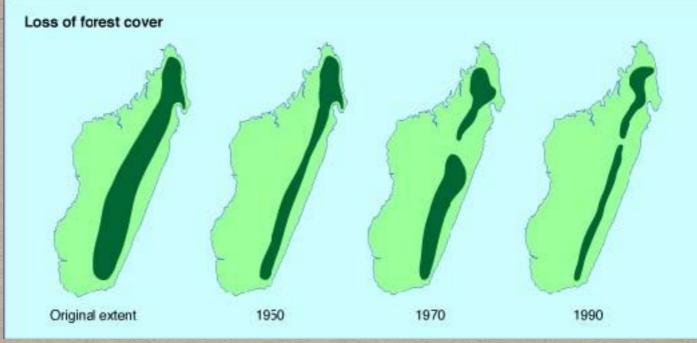
- B. Deforestation throughout history, local populations have relied on forests for daily needs such as wood to burn, wood is a type of biofuel, as is animal dung. Both are utilized in Africa.
 - 1.It is significant issue in many parts of Africa
 - 2. The destruction of tropical rain forests for commercial logging is most pronounced along fringes of the Ituri by way of slash-andburn, sometimes called swidden agriculture, if the land is then used for farming or grazing.
 - 3. Two smaller rain forests on the mainland have nearly disappeared.

Extent of rainforest and deforestation in Central Africa





- 3. It is also a problem in Madagascar which has caused almost all of its rainforest to disappear.
 - a. This has called vast soil erosion, which in turn has caused massive flooding to occur during the rainy season.





- C. Wildlife conservation Africa is famous for its wildlife
 - 1. A number of wildlife reserves have been established, mostly in southern Africa, these are vital for wildlife protection and tourism
 - a. Poaching is a major problem; the Convention on International Trade in Endangered Species (CITES) was imposed in 1989 to ban ivory trade
 - b. The ivory controversy shows how differences in animal distribution in the region, global markets, and international conservation policies are impacting long-term survival of elephants in the region
 - c. <u>Rhinos</u> are being hunted to extinction for their horns. In China powdered rhino horn is considered medicinal.