

Small scale ecosystems:

Interaction	Definition
Producers	The energy enters the system from the producers and the consumers in the form of a single flow diagram.
Energy flow	The flow of all the connections between producers and consumers in a more complex way.
Energy capture	These capture energy from the environment into the system. The most obvious of these are plants that convert energy from the sun by photosynthesis.
Energy transfer	They get energy from the energy produced by the producers. A good example is a grasshopper eating a leafy plant.
Energy storage	These break down plants and animal material and release nutrients to the soil. Bacteria and fungi are good examples.
Energy recycling	Animals are those that are usually plants and animals to grow. These are then broken down by bacteria and fungi and released back to the soil. These are then taken up by plants and animals. The recycling of energy is a key feature of ecosystems, making them available once again for the growth of plants and animals.

Ecosystem is a **complex system** made up of **plants, animals and microorganisms**. These are often **interconnected**, between the living and the non-living components of an ecosystem. **otic components** are the living features of an ecosystem such as **plants and fish**. **Abiotic components** are non-living environmental factors such as **climate, soil, water temperature and light**.



Tropical Rainforests:

Tropical rainforests are found in a broad belt through the Tropics in Central and South America, Africa, and Asia. As tropical rainforests occur so close to the equator, the climate is typically **warm and wet**. The equatorial zone, where they are found, is characterized by **high rainfall and high temperatures**. Temperatures above **20°C** are common. Tropical rainforest soils are surprisingly infertile. They are mostly thin and poor. Rain washes away nutrients in the process of **leaching**. Key adaptations of plants in the rainforest are **epiphytes** (plants which grow on the branches of other trees), **lianas** (plants that climb up the sides of other trees to reach the canopy), and **buttresses** (large, flat, horizontal roots that support the base of the tree as the trees grow tall) and **canopy gaps** (plants live in the branches of the canopy and obtain nutrients from water and air that fall).



Global Ecosystems:

- **Hot desert** (0 degree north or south equator)
- **Tundra** (polar areas or 60-90 degrees north equator)
- **Tropical savanna** (15-30 north/south equator)
- **Tropical rainforest** (close to the equator)
- **Deciduous forest** (30-45 degrees north equator)
- **Polar** (Arctic and Antarctic)



Large-scale ecosystems are known as **global ecosystems** (biomes). These are defined by the **dominant type of vegetation that grows in a region**. Global ecosystems form broad belts of vegetation from west to east **parallel to lines of latitude**, variations are due to **weather patterns, water and distribution of land and sea**. These factors produce small variations in temperatures and moisture which in turn affect the ecosystems.



The living world

- **Small scale ecosystems**
- **Biomes**
- **Tropical rainforest**
- **deforestation**
- **Hot deserts**



Hot deserts:

Deserts are found in subtropical areas between **20° and 30° north and south of the equator**. The Tropic of Cancer or the Tropic of Capricorn passes through most of the world's hot desert regions. This climate is characterized by **hot and dry weather conditions**. This results in **extremely arid conditions**. The definition of a desert is an area that receives **less than 250mm of rain per year**. Surprisingly, the top layer of soil in the desert is very fertile due to the rotting of **biotic components** but erodes easily due to the lack of roots to hold it together. An example of adapted biotic feature is **camels**. **Case study: The Western Desert, the copper mines and the challenges**.



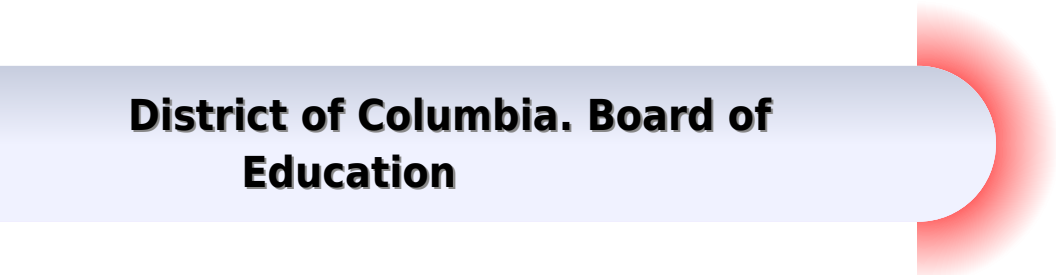
Impacts of deforestation:

Deforestation is the **clearing of forests** on a large scale. The main reasons for rapid deforestation is **clearing land for agriculture for wood, building roads and expansion of urban areas**. Malaysia is a country in South East Asia, 87% of the country is covered by rainforest and the rate of deforestation is decreasing rapidly. The land is being used for **commercial selective logging**, **city development** such as the **Skudai Dam** this flooded 700km² of forest and farmland. **Mineral extraction**, mainly tin and smelter and **Palm Oil Plantations**. This leads to **erosion, loss of biodiversity, contributes to climate change but economic development**. In order to preserve the rainforest, it must be managed effectively. By doing so, it ensures the rainforest will remain a **last resource** for future generations, it also a **less valuable rainforest resources** to be used sustainably. Local governments can participate in many schemes such as **Agriculture, replanting schemes and ecotourism**.



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World Databases in Geography and Geology Chris Armstrong, 2020-01-20 No detailed description available for World Databases in Geography and Geology

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