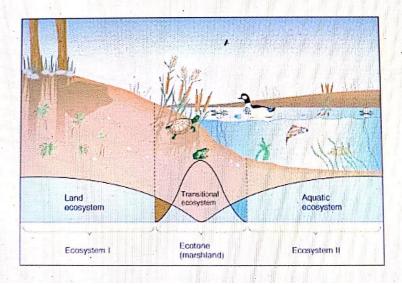
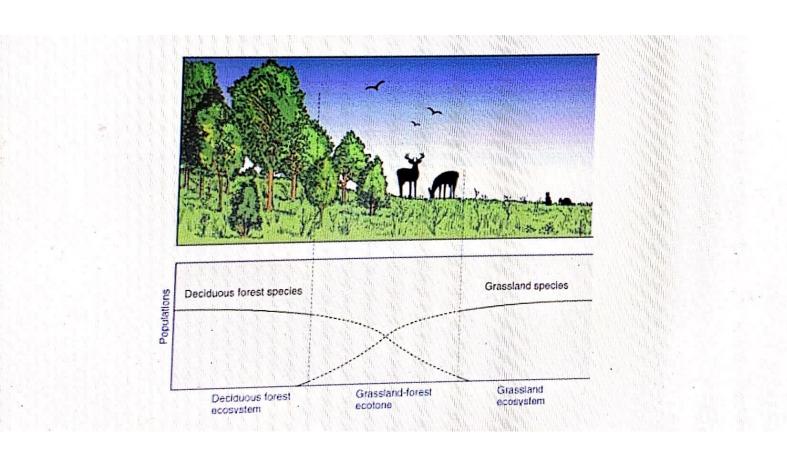
1. Ecotone

- An ecotone is a zone of junction or a transition area between two biomes (diverse ecosystems).
- Ecotone is the zone where two communities meet and integrate.
- For e.g. the mangrove forests represent an ecotone between marine and terrestrial ecosystem.
- Other examples are grassland (between forest and desert), estuary (between fresh water and salt water) and riverbank or marshland (between dry and wet).





1.1 Characteristics of Ecotone

- It may be narrow (between grassland and forest) or wide (between forest and desert).
- It has conditions intermediate to the adjacent ecosystems. Hence it is a zone of tension.
- Usually, the number and the population density of the species of an outgoing community decreases as we move away from the community or ecosystem.
- A well-developed ecotone contains some organisms which are entirely different from that of the adjoining communities.

1.2 Ecocline

- Ecocline is a zone of gradual but continuous change from one ecosystem to another when there is no sharp boundary between the two in terms of species composition.
- Ecocline occurs across the environmental gradient (gradual change in abiotic factors such as altitude, temperature (thermocline), salinity (halocline), depth, etc.).

1.3 Edge Effect - Edge Species

- Edge effect refers to the changes in population or community structures that occur at the boundary of two habitats (ecotone).
- Sometimes the number of species and the population density of some of the species in the ecotone is much greater than either community. This is called **edge effect**.
- The organisms which occur primarily or most abundantly in this zone are known as edge species.
- In the terrestrial ecosystems edge effect is especially applicable to birds.
- For example, the density of birds is greater in the ecotone between the forest and the desert.