1/25/22, 2:26 PM Mangrove forests







- .: species
- forests
- .: roots

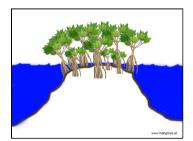


mangrove forests

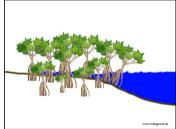
introduction

Mangroves are often a huge community of trees and shrubs of different mangrove spieces. Through the ability of floating seeds and propagules mangroves have been able to conquer large areas along coasts, rivers, creeks and inland depressions in countless countries and islands.

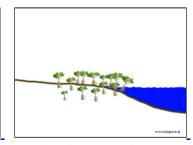
Mangrove forests have been divided as follows:



overwashed mangrove forests

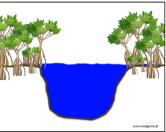


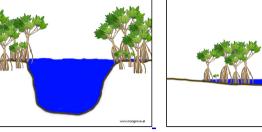
fringe mangrove forests

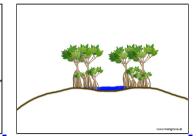


dwarf mangrove forests

Mangrove forests





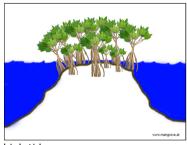


riverine mangrove forests

basin mangrove forests

hammock mangrove forests

overwashed mangrove forests

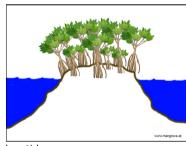


Overwashed mangrove forests are islands frequently washed over by tides and therefore wash away organic matter. The islands are small and narrow extensions of larger landmass. Normally these islands are dominated by Rhizophora species but also other very salt tolerant mangrove species can be found as Avicennia for example. As the mangroves develop more roots sediment and biomass will get stuck and caught. Mangroves on growing in overwashed mangrove forests normally reach a height between 2 to 7 meters.





high tide

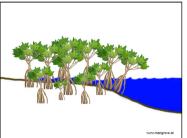


low tide

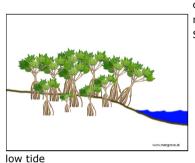
fringe mangrove forests

Fringe mangrove forests are the typical and classic

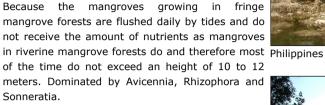
Mangrove forests



high tide



mangrove zonation pattern. They grow as a relatively thin fringe along the coast. Fringe mangrove forests are directly exposed to the tides and sea waves and therefore exposed to storms and strong winds with high energy.

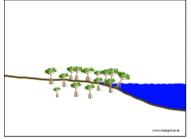






Philippines

dwarf mangrove forests

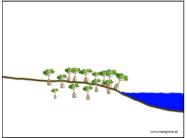


high tide

Dwarf mangrove forests are fringe mangrove forests appearing in colder climate and/or sediments with little amount of nutrients. Most of the time dwarf mangrove forests can be found in the very north and very south of mangrove habitats.

The colder climate and shorter days with less intense sunlight make it harder for mangroves to grow and develop. Sometimes these regions reach cold climate temperatures down to 0°C and the mangroves are covered with snow. Only Avicennia marina and Kandelia candel is able to survive under such conditions. Dwarf mangrove forests can also occur in tropical areas where the sediments do not provide enough nutrients. Mangroves growing in dwarf mangrove forests rarely grow heigher than 1.5 meters



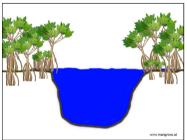




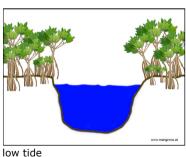


lack of nutrients

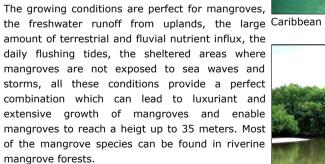
riverine mangrove forests



high tide



Riverine mangrove forests are floodplains that grow along flowing waters such as tidal rivers and creeks which are flooded by most high tides and dry up at most low tides. The growth can extend several kilometers inland from the coast. Salinity varies during different seasons such as dry and wet season.





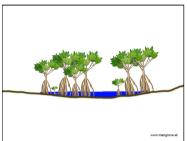


Costa Rica

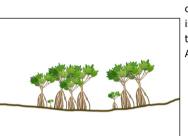
basin mangrove forests

Basin mangrove forests are partially impounded

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wet season



dry season

depression which are flooded occasionally during dry season and reguarly during wet season. During dry season, the water level in the basin like a pond continues to decrease very slowly caused by the groundwater flow discharging to open sea due to water level difference between the basin and the open sea, therefore the salinity is the soil is high.

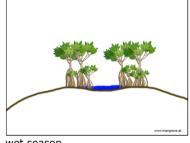
Mangroves growing in basin forests are often stunted and are often located in interior of swamps Queensland (Australia) or drainage depressions. The water in basin forests is stagnant or just very slowly flowing. Most of the time basin mangrove forests are dominated by Avicennia and Rhizophora species.





Avicennia basin

hammock mangrove forests

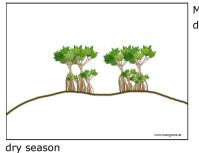


wet season

Hammock mangrove forests are the same as basin mangrove forests, the difference is that hammock mangrove forests are more elevated than basin mangrove forests and therefore more often isolated but still receive tidal influences. During dry season, the water level in the basin like a pond continues to decrease slowly caused by the groundwater flow discharging to open sea due to water level difference between the basin and the open sea, therefore the salinity high. The water level Queensland (Australia) decreases a little bit faster than in basin mangrove forests as the distance to groundwater is longer and the water runoff quicker.

Mangroves growing in hammock forests are almost always stunted, reason is the little amount of nutrients and the high salinity. The mangrove plants are often located in interior of swamps or drainage depressions where the water is stagnant.





Most of the time hammock mangrove forests are dominated by Avicennia and Rhizophora species.



Queensland (Australia)

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