

Chapter-11

Weather and Climate

Lecture Sheet-02; Class date -14/07/2020

Air pressure:

The force produced by the weight of the air pressing down on the earth. Wind blows from high pressure to low pressure area.

Low pressure:

Air that is warmed becomes lighter than the surrounding air, so it rises up. As a result, low pressure develops over the land.

High pressure:

Air over the ocean is cooler and heavier so it sinks. Then high pressure develops over the ocean.

The wind blows from high pressure to low pressure area in order to replace the rising warmer air by the cold air. At night, the land is cooler than the ocean. Therefore, high pressure develops over the land and low pressure develops over the ocean.

In Bangladesh, we experience southwest monsoon wind during rainy season and northeast monsoon wind during winter season. In rainy season June-August, the land of Bangladesh is warmer than the Bay of Bengal. In winter season December- February, the land is cooler than the Bay of Bengal. These seasonal temperature contrasts of the land and the ocean develop high- and low-pressure system. It produces monsoon wind system.

Questions related with this topic

1. In Bangladesh how air pressure creates monsoon wind system?
2. How does low air pressure create? (2017)
3. What is air pressure? (2016)