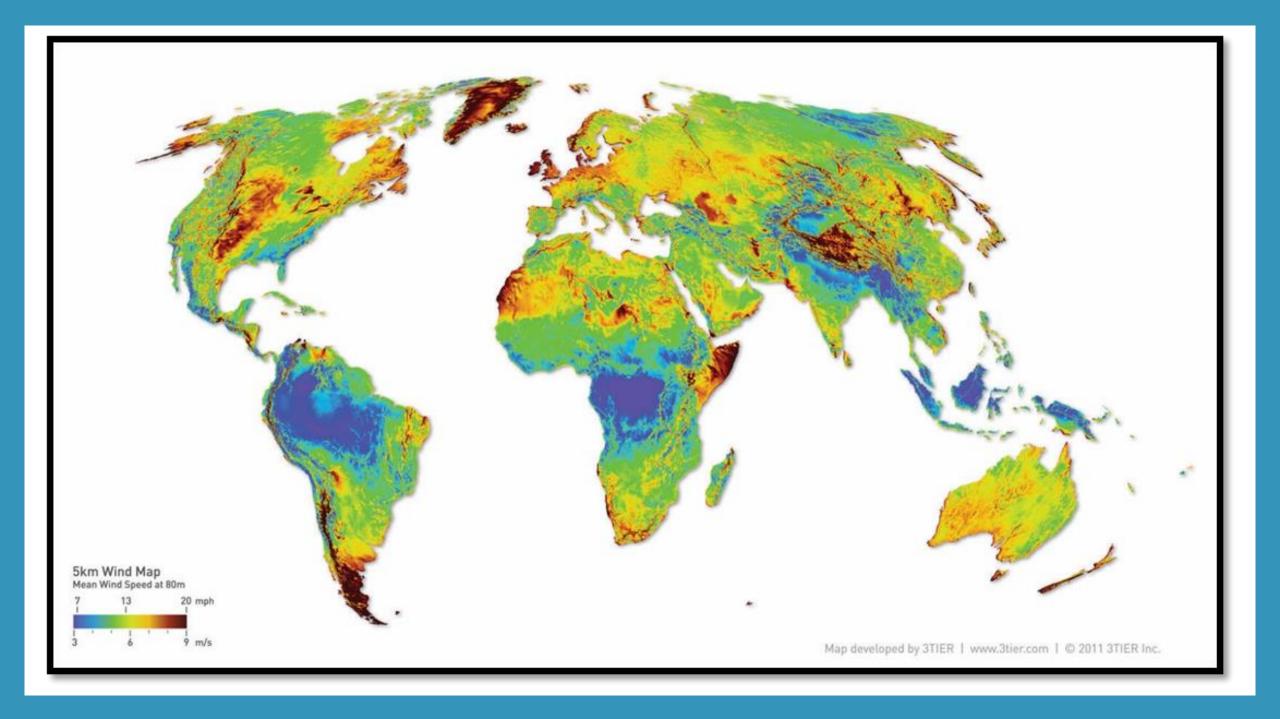
ECOLOGY LAB 6

Mohamed Sabbar

Wind as an Ecological Factor

- Wind is the flow of gases on a large scale. On the surface of the Earth, wind consists of the bulk movement of air. In meteorology, winds are often referred to according to their strength, and the direction from which the wind is blowing. winds have various names associated with their average strength, such as breeze, gale, storm, and hurricane.
- Wind is caused by differences in the atmospheric pressure. When a
 difference in atmospheric pressure exists, air moves from the higher
 to the lower pressure area, resulting in winds of various speeds. Wind
 direction is usually expressed in terms of the direction from which it
 originates. For example, a northerly wind blows from the north to
 the south



Role of wind in the natural world and environment

- 1- Erosion
- 2- Desert dust migration
- 3- Effect on plants
- 4- Effect on animals
- 5- Sound generation

Wind speed measuring devises

- An anemometer is a device used for measuring wind speed. The term is derived from the Greek word **anemos**, which means wind, and is used to describe any wind speed instrument used in **meteorology**
- 1. Vane style anemometer
- 2. Helicoid propeller anemometer
- 3. Hand held anemometer
- 4. Digital anemometer

Wind speed measuring devises



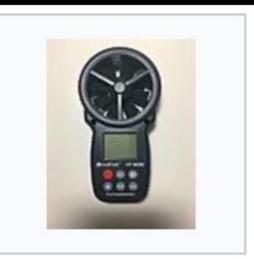
Vane style of anemometer



Helicoid propeller anemometer incorporating a wind vane for orientation



Hand-held low-speed vane anemometer



Hand-held digital anemometer