What will happen if the wind stops blowing on Earth?

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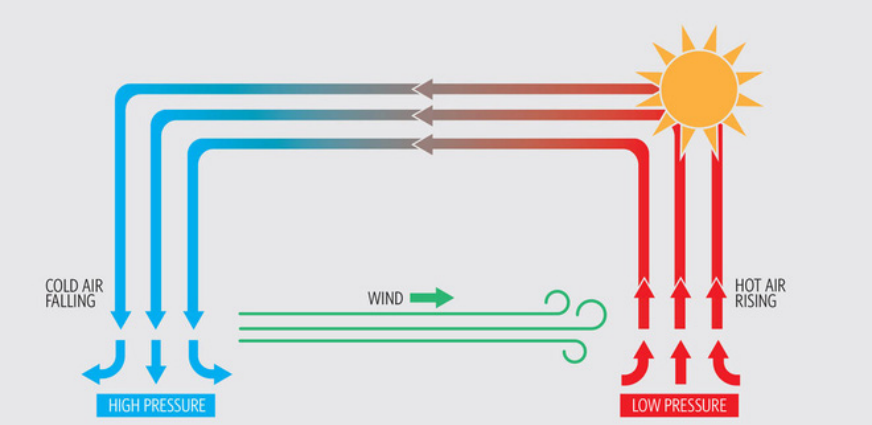
What is wind? Why is there wind?

The wind on the Earth's surface are large air currents moving by the difference in atmospheric pressure.

The sun shines on Earth, its radiation on Earth's regions is not the same: only half of the Earth is projected and the area near the equator always receives more at the poles. This makes the air temperature of different regions of the Earth different, the pressure is different.

In areas with high heat, air expansion, air density is narrow, low pressure. In contrast, in low temperature areas, air shrinks, air density is dense, air pressure increases. The pressure of different regions creates the air flow from high pressure to low pressure.

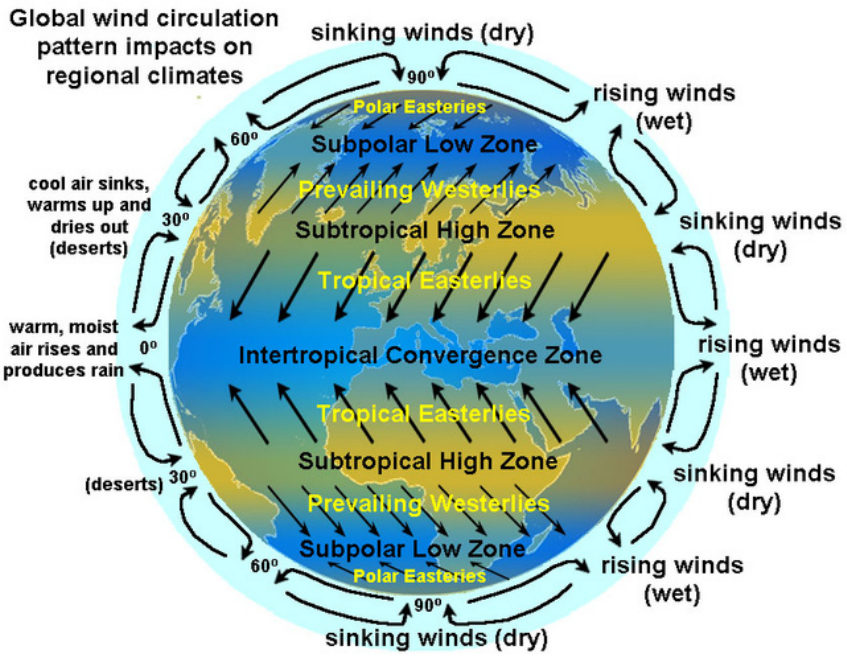


Mechanism of wind formation.

The bigger the difference, the greater the air movement speed, the stronger the wind blows and vice versa.

In addition, the Earth's axis is tilted at an angle from the orbit around the Sun which is also one of the reasons for the seasonal gas flows.

Due to the effect of the Coriolis effect, which is formed by the rotation of the Earth's axis, the movement of air from the high pressure area into the low pressure area does not move straight but creates whirlwinds, which are dimensional The spin is different in the Northern Hemisphere and the Southern Hemisphere.



Wind is distributed in each climate zone.

Wind is characterized by two factors:

1. Speed: the number of meters that air can travel in a second (m / s).

2. Direction: the sky from which the wind blows.

Wind usually has no certain direction and speed. Wind speed is always uneven, jerky due to rapid changes in direction and speed.

Wind in high places is stronger than wind in low places because air movement is always affected by friction. The air flow on the ground is greatly affected by friction, especially in uneven hills and mountains, the air is very easy to form vortex movement. When the altitude increases, the effect of friction decreases, causing the wind speed to increase. At the same area, the air temperature near the ground is not the same, with high and low places. Thus, the water surface at the same height is uneven temperature, leading to uneven air pressure (called stair pressure), making the wind speed increase.

Some types of main wind

Temperate west wind occurs due to the pressure difference between high pressure and temperate depression. The temperate west winds are usually humid, carry heavy rain and are available year round.

Trade winds appear due to the pressure difference between high pressure and equatorial low pressure. These winds are usually dry, less rainy.

Monsoon winds are seasonal winds, the wind directions in two seasons are opposite to each other. The cause of monsoon formation is mainly due to the difference in temperature and atmospheric pressure between the continent and the seasonal ocean, between the Northern Hemisphere and the Southern Hemisphere.

Monsoon winds often occur in areas such as South Asia, Southeast Asia, East Africa, Eastern North Australia, and some medium latitudes: East China, Southeastern Russia, Southeastern United States.

Local wind: including sea breeze, wind and wind.

Sea breezes and earth winds are coastal winds that change direction by day and night. In coastal areas, during the day, the ground temperature is higher, the air pressure is lower than that of the sea, so the wind blows from the sea to the mainland. At night, the mainland radiates faster than the sea, causing the distribution of air and atmospheric heat against the day so the wind blows from the mainland to the sea. Humid sea breeze is cool and wind is dry.

Wind is denatured when it passes dry and hot mountains.

The meaning of wind on Earth

Wind determines the climate and weather for each area. If the wind blows from the North, it will carry cold air, causing cold waves. And the wind blowing from the South will bring hot air and high temperatures to the area.

Wind energy brings many benefits to people.

Wind direction determines the amount of moisture in the air. If the wind blows from the sea, it will bring moist air into the land. In contrast, the wind blowing from the mainland will make the air dry.

Wind brings a lot of benefits to people: helping air conditioning, pollinating flowers . and has many applications in the field of transportation and the energy industry.

Strong winds have tremendous destructive power.
However, the wind also gives us countless harms. Strong winds will have tremendous destructive power: shedding trees, obstructing traffic, speeding the roof, or even killing people.

What will happen without the wind?

Imagine what the Earth and people would be like without the wind?

Life on Earth will not exist if the wind stops blowing.(Artwork: Internet.)
When the wind stops blowing, the Earth will suffer a big difference in temperature between the two poles and the equator as well as between the sea and the land because the density of heat distribution will be uneven. Cold areas will become extremely cold, hot areas will become extremely hot, which means that life cannot exist on Earth.