

Erosion by Wind



Erosion by Wind

- Remember, erosion is the process by which weathered products are moved. Wind is one way weathered products are moved.

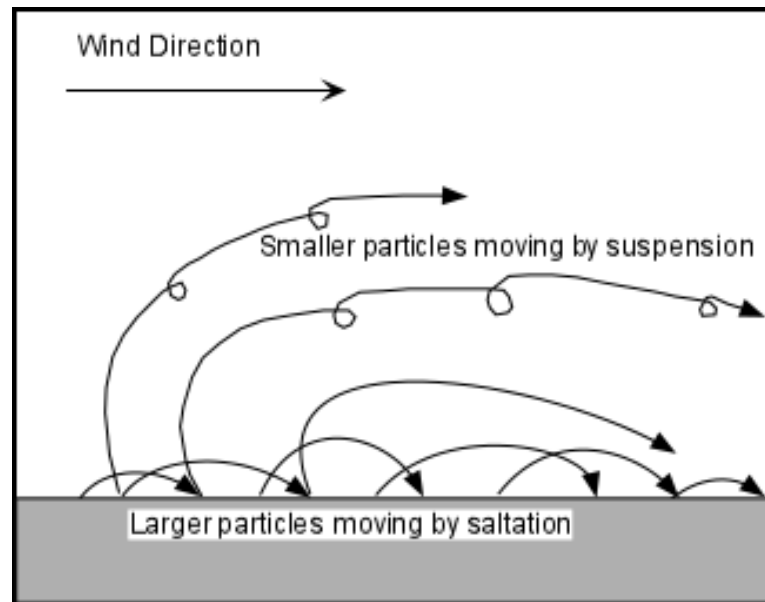


Where does wind erosion occur?

- Places where there is little vegetation (plants, trees, grass)
- Places where there is little water (moisture makes the soil heavier → harder to move)
- Ex. Beach and desert

How does wind move sand?

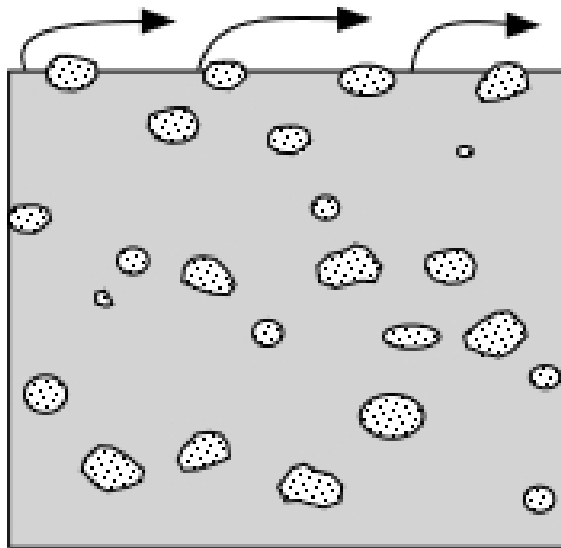
- Wind causes the sand to jump and bounce. This is called **saltation**.
- Grains of sand only rise above the surface ~1 m even in the strongest wind.



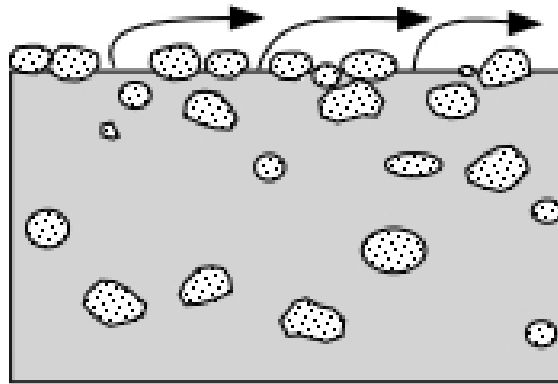
Effects of Wind Erosion

1. Deflation: wind removes topsoil, **lowers the land** and leaves rock fragments that are too large to be lifted. Common in deserts.
 - Example: Dust Bowl
2. Abrasion: rocks get worn down and smoothed mostly by blowing sand.

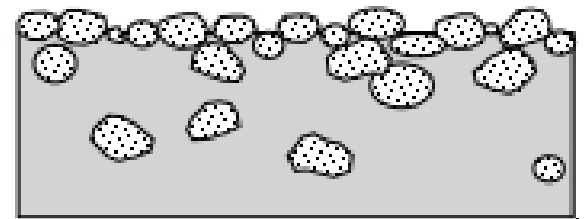
Deflation



Deflation



Desert Pavement

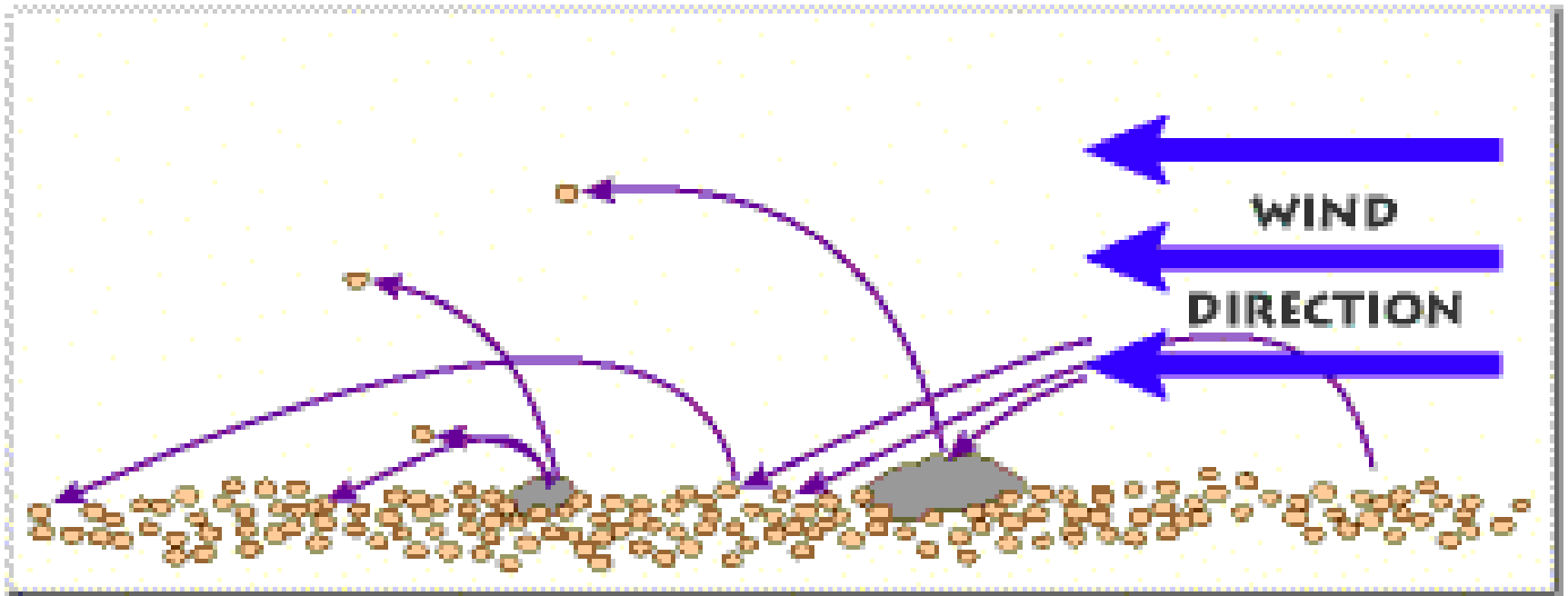


Effects of Wind Erosion

3. Dunes: Sand gets deposited by the wind and causes dunes to form.
- Dunes: mounds of sand blown by the wind.
 - Common in deserts, on beaches and on the shores of large lakes.



What is this?



What is the purpose of the fences?



True or False

- Saltation is the jumping and bouncing movement of sand.
- Deflation is when rocks get worn down and smoothed mostly by blowing sand.
- Sand that is deposited by wind forms dunes.
- Wind erosion generally occurs where there is a lot of vegetation and a lot of water.