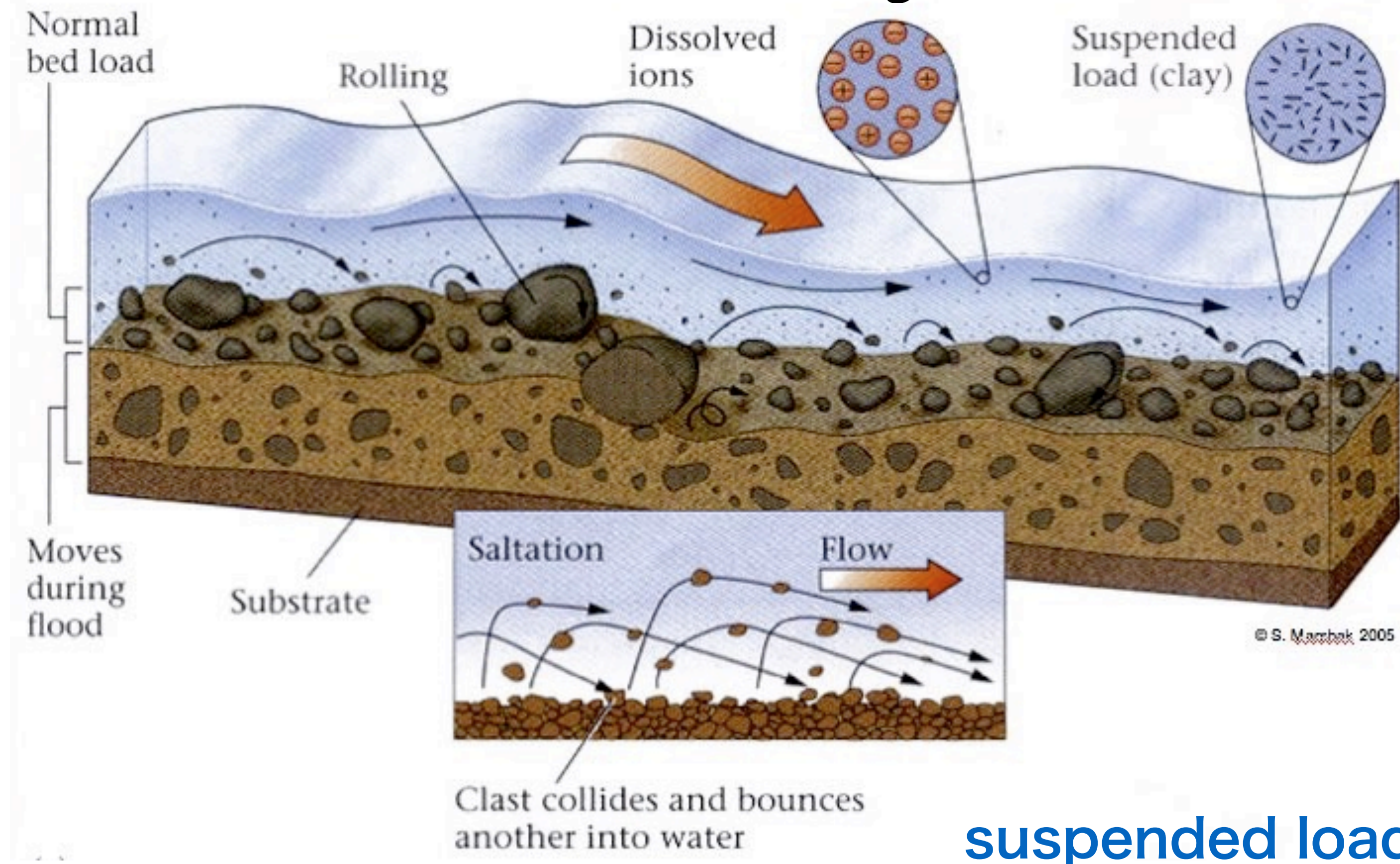


Sediment transport by water



suspended load

Last mode of transport in water:

- **suspension:** particles that follow long and irregular paths within the water

Frictional forces and the boundary layer

- Water flowing near a solid surface is slowed down by a **friction** along the boundary and the region of flow influenced by proximity to the surface is called the **boundary layer**.
- In theory, provided that no sediment on the bed is moving, the thin layer of water in direct contact with the bed is also stationary: its speed should be zero.
- With increasing distance from the bed the successive layers of water move a little faster as the effects of friction with the bed decrease
- There is thus a velocity gradient — a change of velocity with depth or **velocity shear**

