Knowledge Path

14 Permafrost and active layer

Solutions:

1. At a depth of about 180 to 200cm the temperature reaches 0 degrees.
2. No, it does not decelerate linear. The temperature degrades with the depth ever more slowly.
3. In winter the active-layer is completely frozen. The freezing process starts from the top and slowly infiltrates deeper regions.
4. The thickness of the active-layer can vary a lot under different topological and environmental conditions. In northern regions closer to the poles it becomes very thin. It depends on parameters like air temperature, duration of snow cover, exposition, slope, vegetation cover, ice percentage and substrate.