

Glaciers – extended package

Verification test

1. What is the name of the phase transition a substance (e.g. water) directly from the solid to the gas phase without passing through the intermediate liquid phase?
 - ☐ sublimation
 - ☐ deposition
 - ☐ evaporation
 - ☐ condensation
2. Which of these factors does not affect the snow cover duration?
 - ☐ latitude
 - ☐ altitude
 - ☐ distribution of lands and oceans
 - ☐ none of the above answers is correct
3. Which of these conditions and factors is not favorable to the formation of mountain glaciers?
 - ☐ low air temperature
 - ☐ steep slopes
 - ☐ hollow on a mountainside
 - ☐ snowfall
4. The least favorable conditions for creating glaciers are located:
 - ☐ near the equator
 - ☐ in tropics
 - ☐ near poles
5. Mountain glaciers can be formed even in the equatorial climate zone, as exemplified by glaciers on:
 - ☐ Elbrus
 - ☐ K2
 - ☐ Mount Everest
 - ☐ Kilimanjaro
6. The process of wastage of snow or ice by melting, sublimation and calving
 - ☐ accumulation
 - ☐ ablation
 - ☐ avalanching
7. Calving - the breakaway of ice takes place:
 - ☐ at the glacier terminus
 - ☐ in the high mountains
 - ☐ above the equilibrium line altitude
 - ☐ at the equilibrium line altitude
8. Glacier ice is formed:
 - ☐ from frozen sea water
 - ☐ from frozen streams
 - ☐ from transformed snow
9. Icebergs floating in the sea are the result of:
 - ☐ calving of glaciers
 - ☐ cooling of the climate
 - ☐ tectonics
 - ☐ activities of marine organisms
10. A negative annual balance at a given glacier point means that the amount of accumulated snow (accumulation) is:
 - ☐ higher than the amount of snow melting (ablation)
 - ☐ lower than the amount of snow melting (ablation)
11. A positive annual balance on the forehead of the glacier means that:
 - ☐ glacier is advancing
 - ☐ glacier is retreating
 - ☐ does not affect changes in the position of the glacier's forehead
12. In which part of a glacier the accumulation is the largest:
 - ☐ on the forehead of the glacier
 - ☐ near the equilibrium line altitude
 - ☐ in the firn area
13. A positive mass balance is caused by:
 - ☐ geomorphology of the glacial valley
 - ☐ increase in the average annual temperature
 - ☐ decrease in the average annual temperature