11 Permafrost and Changes in Landscape

Solution:

1. The picture from 2007 has a greater snow cover than the picture from 2006. The ridge left to the mountain peak has a different outline.

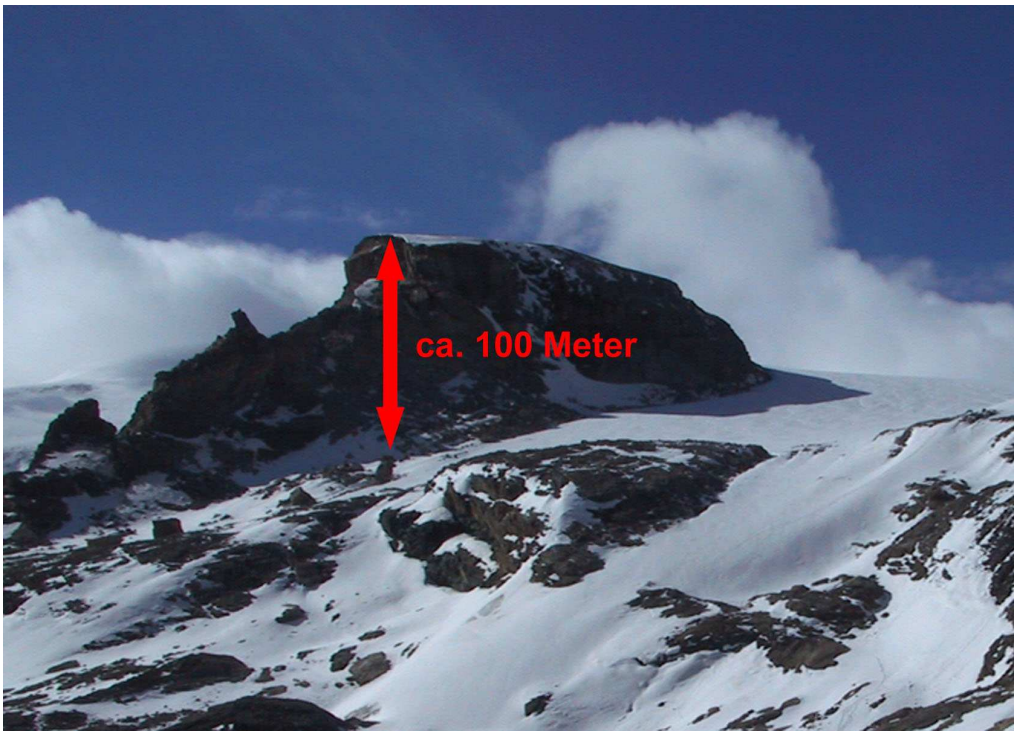
2. The difference in snow cover is a result of weather conditions in the days or weeks before taking the photo. The different shape of the ridge is a result of the slide of rock mass.

3. The surrounding area of the “Mittlerer Burgstall” is so high that no closed vegetation cover exists, that could be a first indication of permafrost. Also the wide distribution of snow in late summer is an indication of permafrost.

4. The solution graph gives a first idea, of how much rock mass has broken down. In summation it was about 50,000 m^3 rock. See solution pictures!

5. The upper 10 – 30 m of the ridge broke down to both sides.

Solution Pictures



Ca. 50. 0000 m^3 Rock mass