Blafjell Information Sheet



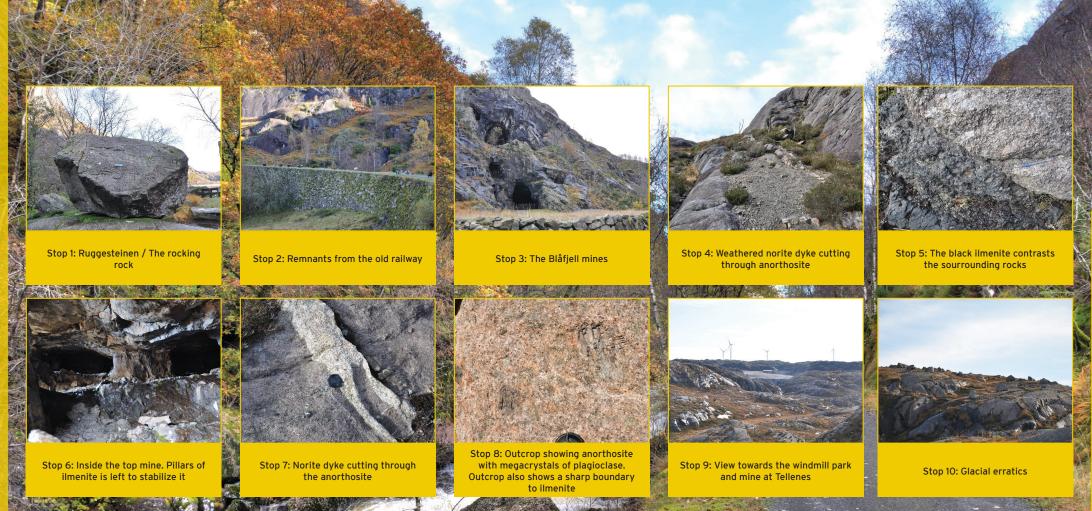


Location: BLÅFJELL Conservation designations: Cultural heritage Grid reference: EU89, UTM-zone 33 Address: Blåfjellveien, 4380 Hauge i Dalane Parking available: Yes, cars and busses can park at Linepollen. Cars can also drive all the way up the mines Personnel to be contacted prior to visit: Magma Geopark, Elvegaten 23, 4370 Eigersund, E-mail: post@magmageopark.com, Phone +4791782594	 Useful equipment: Camera Warm clothes Good shoes Wind and water proof garment Hand lens Meter stick Paper Pen Color pencils Compass 	Relevance national curriculum: 8th grade middle school (natural and social science) High school (Geoscience and geography)
Rock types and geological processes observed: Anorthosite, norite, ilmenite, magmatic crystallizartions, dykes Geological structures: magmatic rock boundaries Earth processes: eg. Glacial processes (moraines, erratics, striations etc.) Geological periods present: Precambrian, quarternary	 Site specific hazards and risks: Height from outside mine No exit into the mines itself If very wet or cold the mountains might be slippery 	 Mitigation measures: Park in a designated area Show respect for the cultural heritage Respect grassing animals Keep your dog on a leash Close gates when you have passed them

Did you know:

Topics to cover before visit: Areal conflicts, resources, basic geology (difference of rocks and minerals, how to distinguish rocks and minerals etc.), large landforms and how they are formed

Keywords: Mountain chain, magma chamber, ilmenite, ore, mining, minerals, ice age



Geological history*:

About 1 billion years ago, a large mountain chain the size of Andes existed in this area because of the collision between a continental and an oceanic plate. Below this mountain chain there was a magma chamber where hot magma through several episodes intruded and crystallized (solidified). The first rock to crystallize was the anorthosite about 930 million years ago. Later, about 920 million years ago, ilmenite norite and pegmatite intruded into the already existing anorthosite and crystallized. Through millions of years, the mountain chain eroded away, continents drifted apart and the rocks are today visible at the surface of the earth. In quaternary time, glaciers shaped the landscape we see today, and there are traces left scattered around in the terrain. The ilmenite in the ilmenite, norite and pegmatite has become an important resource for the area.



Stop 11: Sedimentary profile in a moraine