

***Geology of subsheets H and O of the Yabello map sheet (NB37-14)***

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**ABSTRACT**

The rock lithologies in the study area are the Granitic gneiss, the Amphibole schist, the Actinolite-tremolite schist, the Marble, the Adole granite, the Bufe guda syenite, the olivine-plagioclase phyric basalt, the Vesicular basalt, the scoria, the pyroclastic surge deposit. Eventhough exact age determination is not yet done they are grouped under the Precambrian basement, Tertiary volcanics and Quaternary sediments.

The basement rocks had undertaken several deformational events but only the two are observed due to the Cenozoic cover obscuring important data. That is the gneissic layering (D1) and the N-S foliation (D2) events. The grade of metamorphism is ranging from low-grade (green schist facies) to high grade (middle to upper amphibolite facies). There are four types of volcanism the first is the fissural type olivine-plagioclase phyric basalt, the second is fissural type vesicular basalt, the third is central type scoria cones and the fourth one is the pyroclastic fall deposit.