

## ***Geology of subsheets E of the Yabello map sheet (NB37-14)***

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### **ABSTRACT**

The project area is located in southern Ethiopia within Yabello sheet and is bounded by 4<sup>0</sup> 45' - 5<sup>0</sup> 00' N latitudes and 38<sup>0</sup> 45' - 39<sup>0</sup> 00' E longitudes covering an area of about 750 square kilometer.

The area is underlain by Precambrian metamorphic rocks comprising granitic gneiss, ultramafic rocks, and metasediments. These are intruded by Precambrian intrusive rocks consisting of deformed granite, granite, and pegmatitic granite. Quaternary soil cover minor parts of the area.

Two phases of deformation are recognized. The first deformation probably resulted in the development of gneissic foliation in the granitic gneiss while the second deformation is characterized by localized shear zones associated with asymmetric folds. One major regional metamorphic event is recognized from the mineral assemblage of the granitic gneiss, which might be associated to D<sub>1</sub>. Intrusion of syn- to post-tectonic granites occurred after this major deformation.