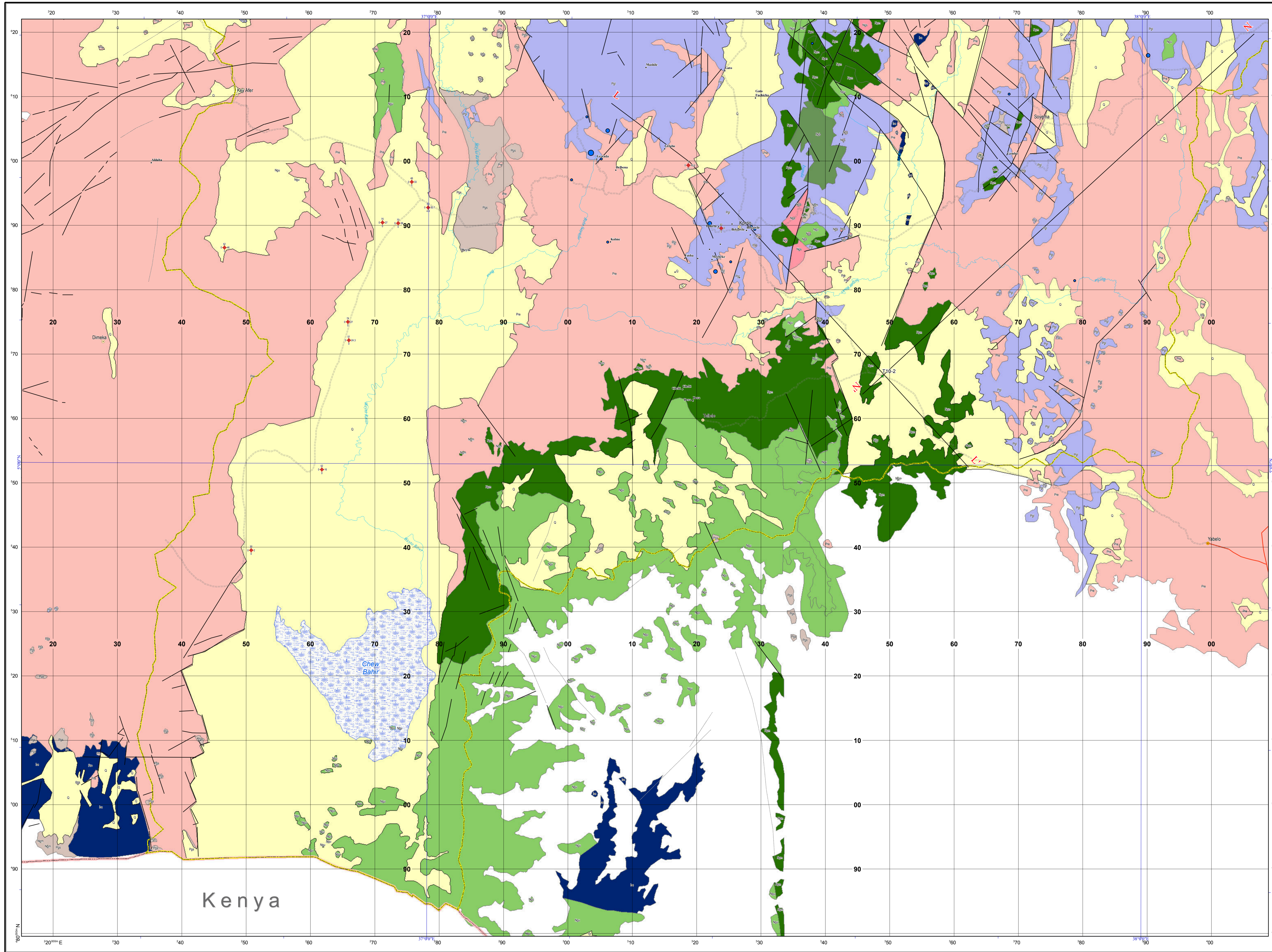


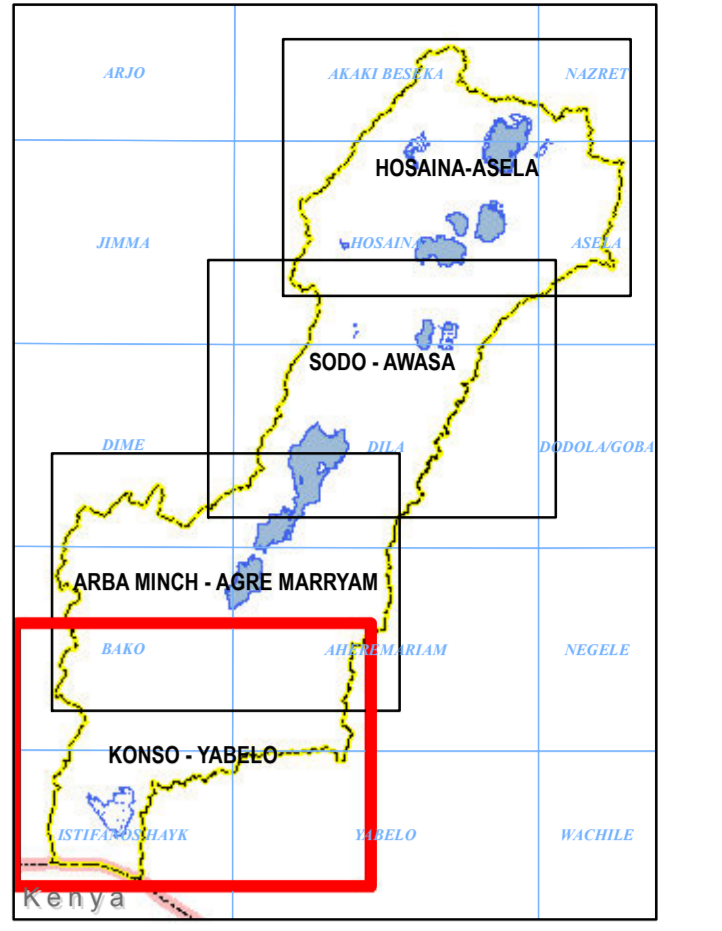
GEOLOGICAL MAP OF KONSO - YABELO AREA



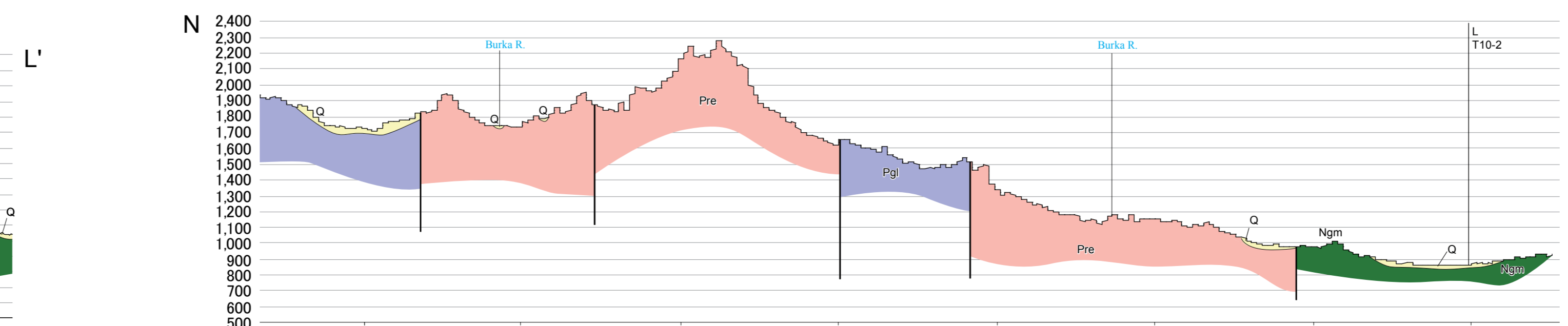
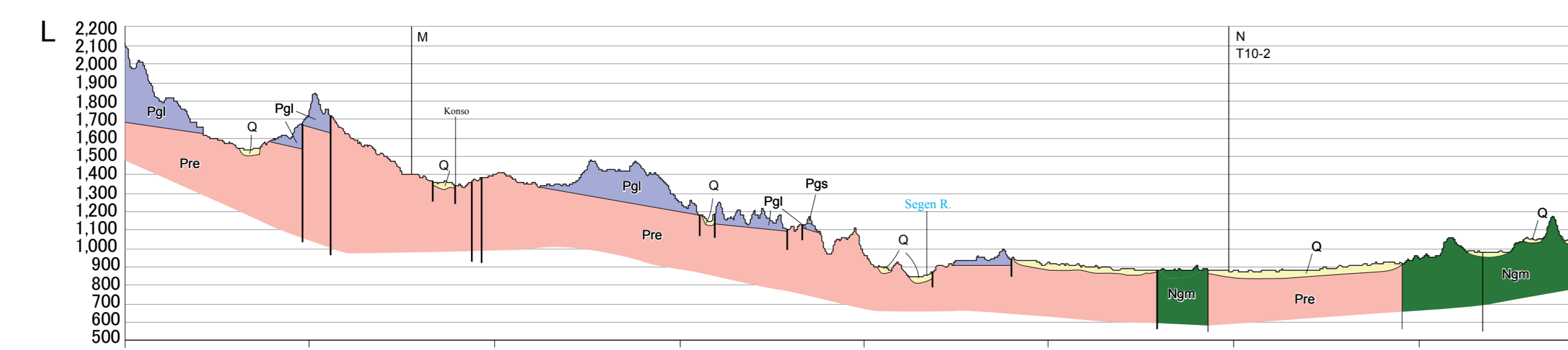
VERTICAL SCALE = 10 x HORIZONTALSCALE

SCALE 1:250,000 0 10 20 40 km TRANSVERSE MERCATER PROJECTION

INDEX MAP



- Towns**
 - Region Capital
 - Zone Capital
 - Woreda Capital
 - Developed Area
- Roads**
 - Asphalt
 - Gravel
- Rivers**
 - Major Rivers
- Lakes**
 - Swamp
 - Lake
- Boundaries**
 - Basin Boundary
 - National Boundary
- Spring Discharge [l/s]**
 - 0.01 - 0.75
 - 0.75 - 2.50
 - 2.50 - 6.00
 - 6.00 - 16.00
 - 16.00 -
- Geological Structure**
 - Major fault, downthrown shown
 - Major fault
 - Normal fault, downthrow shown
 - Normal fault
 - Inferred fault, downthrown shown
 - Inferred fault
 - Major fault, downthrown shown, by satellite images
 - Normal fault, downthrow shown, by satellite images
 - Normal fault, by satellite images
 - Inferred fault, downthrown shown, by satellite images
 - Inferred fault, by satellite images
 - Geology boundary
 - Inferred geology boundary
 - Caldera edge
 - Volcano / Volcanic Cone
- Borehole (Well)**
 - Total depth [m]
 - Specific capacity [l/min/m]
 - Static water level [m]
 - Draw down [m]
 - JICA Well
- TEM**
 - Survey Point of Transient-phenomenon (or Time-domain) Electromagnetic Exploration Method
- Geology**
 - Holocene**
 - AI Alluvium; *Fine sand - mud*
 - Q Unclassified Fluvial Deposits; *Sandy gravel-mud*
 - lac2 Bulbula Lacustrine Deposits; *Lake deposits such as gravel, sand and mud*
 - Pm Corbetti Pumice Flow & Fall Deposits; *Pumice falls and pumice flow deposits*
 - Vol Corbetti Rhyolitic Volcanics; *Rhyolite lava flows and Obsidian lava flows*
 - rb Butajira Recent Basalt; *Basalt lavas and reddish brown basaltic scoria*
 - lac1 Meki Lacustrine Deposits; *Lake deposits such as poorly-sorted gravel, sand, pumice, tuff, and volcanic sand*
 - Pleistocene**
 - Y Langano Poorly Welded Pumiceous Pyroclastics; *Yellowish white rhyolitic pumice tuff*
 - ob Kulumusa Highly Welded Tuff; *Rhyolite to andesitic welded tuff*
 - W Ketar River Acidic Volcanic Sedimentary Rocks; *Rhyolite tuffs and pumice tuffs*
 - G Gonde Strongly Green Welded Tuff; *Rhyolite to andesitic welded tuff*
 - tb Adami Tulu Basaltic Pyroclastics; *Basaltic tuff breccias and lapilli tuffs*
 - ba Ogoche Pleistocene Basalt; *Massive basalt lavas*
 - lake Lekansho Lacustrine Deposits; *Lake deposits such as sand stone and alternate layer*
 - Plio-Pleistocene**
 - rh Gademotta Rhyolite; *Rhyolite lava flows and rhyolitic tuffs*
 - N2b N2b Basalt; *Basalt lavas and basaltic pyroclastics*
 - NQs NQs Rhyolite; *Rhyolitic tuffs*
 - Pliocene**
 - rht N1_2n Rhyolitic Volcanics; *Plagioclase rhyolite tuff and rhyolite lava flows containing obsidian*
 - N1_2n N1_2n Rhyolitic Tuff; *Plagioclase rhyolite tuff, pumice tuff and crystal tuff*
 - N1n N1n Basalt; *Anchar Basalt*
 - N1ar N1ar Rhyolite; *Rhyolite*
 - Miocene**
 - NgS Sharenga Rhyolite; *Rhyolite piles and necks*
 - NgU Upper Basalt; *Porous basalt lavas*
 - NgB Beyana Tuff; *Lapilli tuff with minor laminated tuff*
 - Ngm Middle Basalt; *Porphyritic basalt lavas*
 - Eocene-Oligocene**
 - PgS Shole Welded Tuff; *Densely-welded rhyolite welded tuff*
 - PgI Lower Basalt; *Porphyritic basalt lavas*
 - MESOZOIC**
 - Mes Adigrat Sandstone, Antaro Limestone; *Sandstone, Shale and Limestone*
 - PRECAMBRIAN**
 - Pre Biotite Gneiss, Pegmatite; *Biotite Gneiss, Granite, Biotite Metagranite*



The geological map is based on Ethiopian Mapping Agency (EMA) 1:50,000, 1:100,000 and 1:250,000 scale maps. The map is based on the Ethiopian Geological Survey (EGS) 1:50,000 and 1:100,000 scale maps. The map is based on the Ethiopian Geological Survey (EGS) 1:50,000 and 1:100,000 scale maps. The map is based on the Ethiopian Geological Survey (EGS) 1:50,000 and 1:100,000 scale maps.