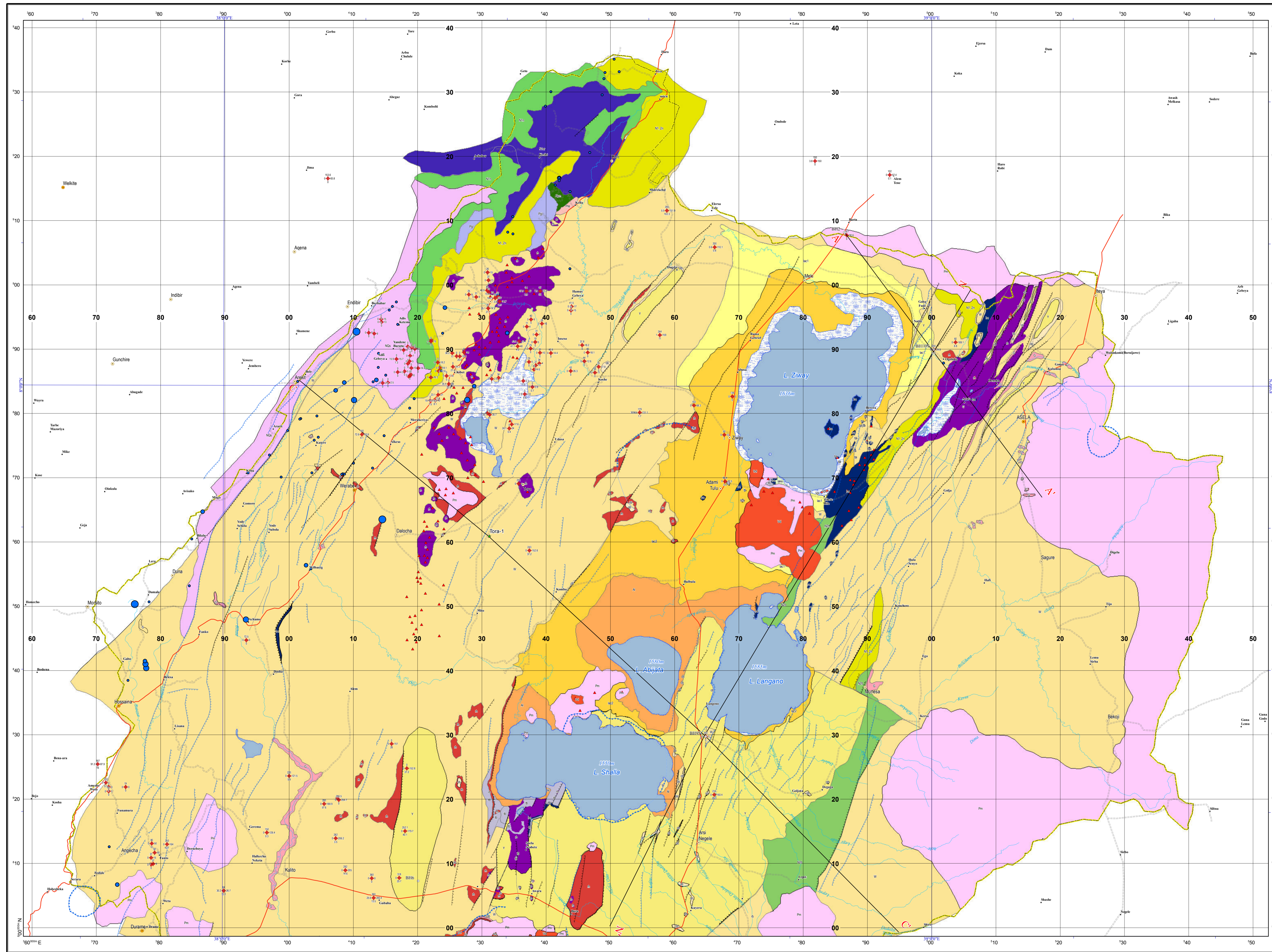
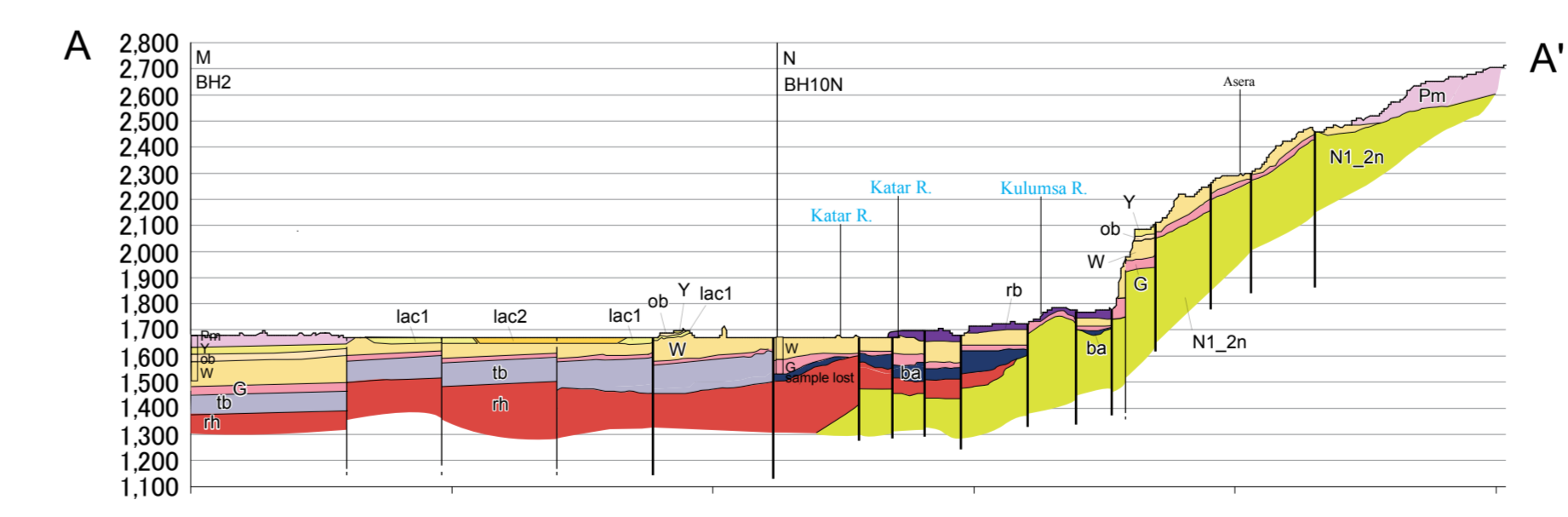
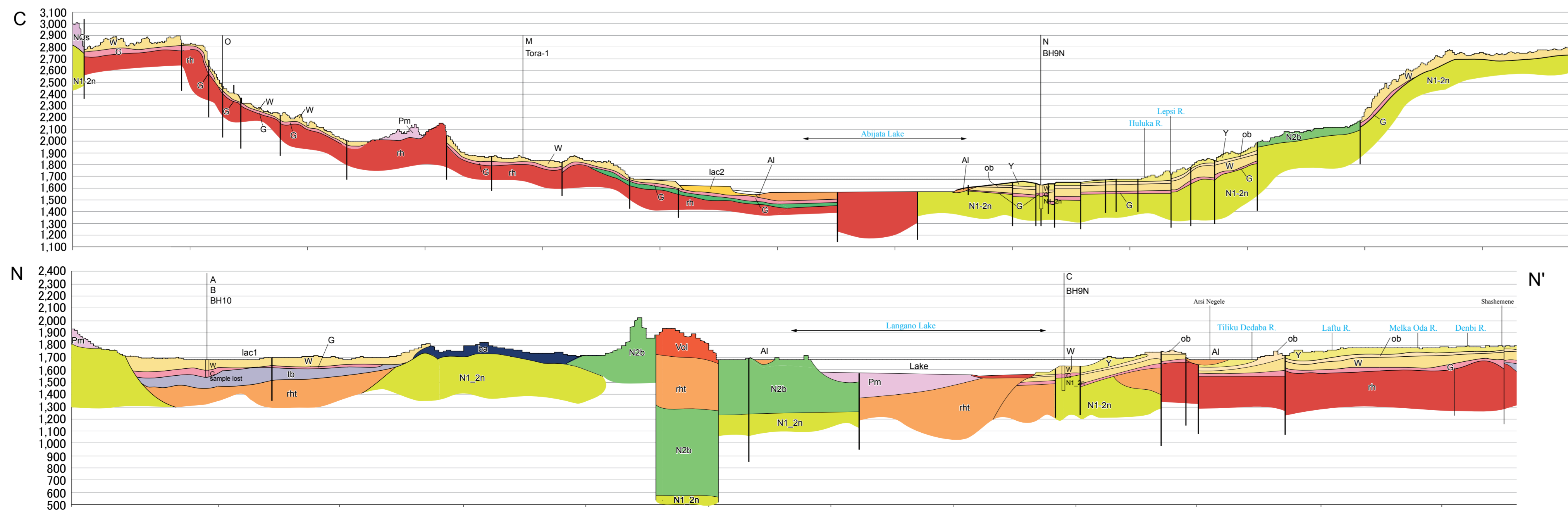


GEOLOGICAL MAP OF HOSAINA - ASELA AREA



VERTICAL SCALE = 10 x HORIZONTALSCALE

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



- 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, downthrown shown
 - Normal fault
 - Inferred fault, downthrown shown
 - Inferred fault
 - Major fault, downthrown shown, by satellite images
 - Normal fault, downthrown 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**
- Al** 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** Ogolche 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**
- rh1** 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
 - NgD** 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
 - Pgl** 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

