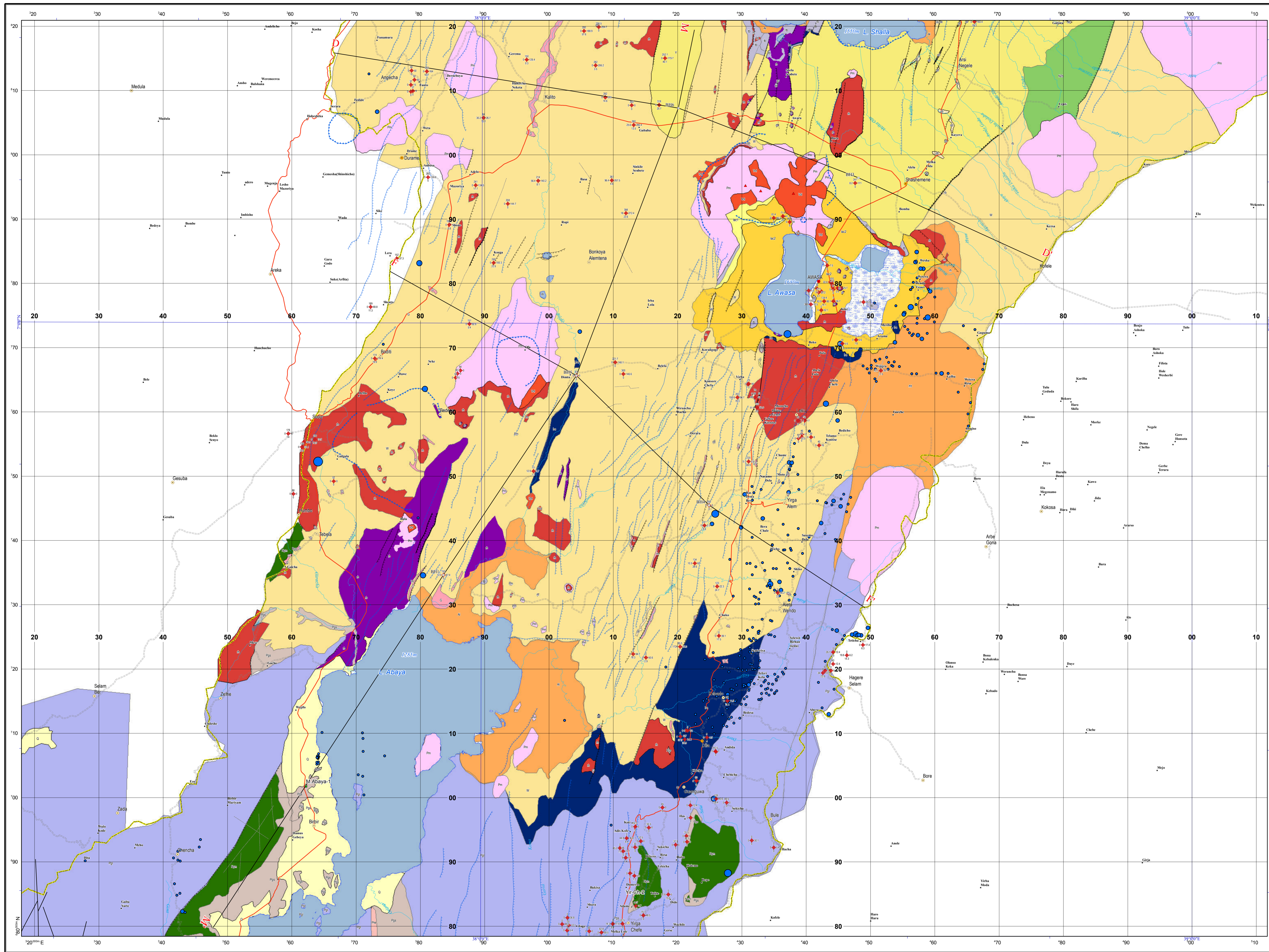
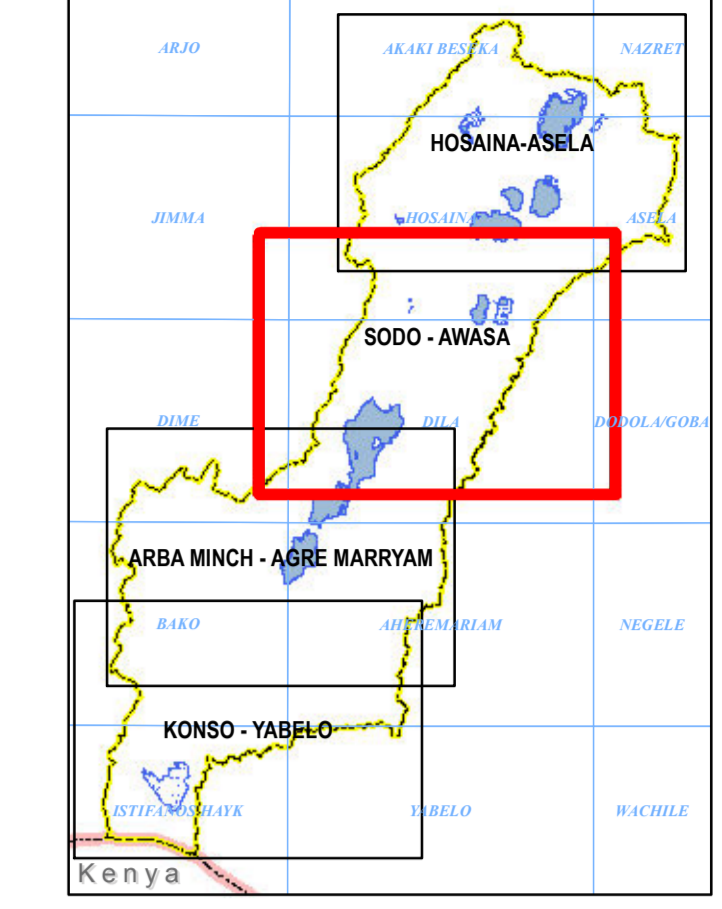


GEOLOGICAL MAP OF SODO - AWASA AREA

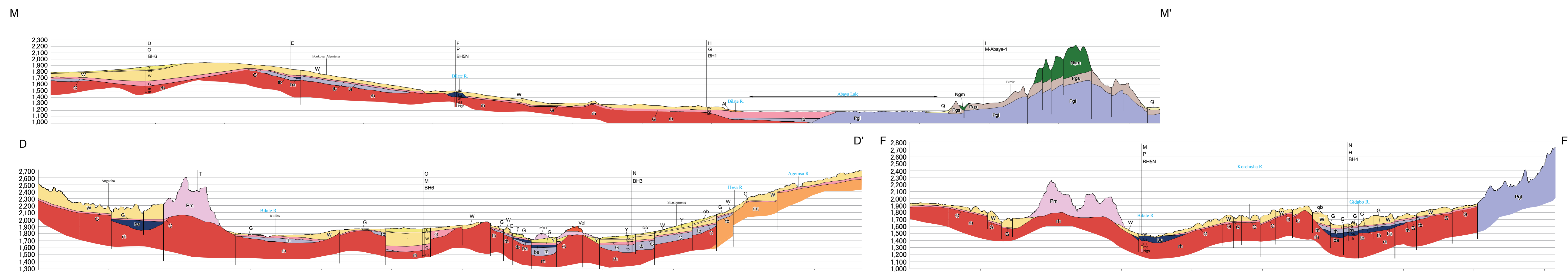


INDEX MAP



- 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
 - Volcanic / 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; Basaltic 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 basaltic 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; Basaltic 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
 - Ngp Upper Basalt; Porous basaltic lavas
 - Ngd Beyana Tuff; Lapilli tuff with minor laminated tuff
 - Ngm Middle Basalt; Porphyritic basaltic lavas
 - Eocene-Oligocene**
 - Pgs Shore Welded Tuff; Densely-welded rhyolite welded tuff
 - Pgl Lower Basalt; Porphyritic basaltic lavas
 - MESOZOIC**
 - Mes Adigrat Sandstone, Antaro Limestone; Sandstone, Shale and Limestone
 - PRECAMBRIAN**
 - Pre Biotite Gneiss, Pegmatite; Biotite Gneiss, Granite, Biotite Metagranite



Geological Map March 2012
THE STUDY ON GROUNDWATER RESOURCES ASSESSMENT IN THE RIFT VALLEY LAKES BASIN
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