Geological Map of Uganda
1:1 000 000

Airborne Magnetics, Reduced to North Pole
1:5 000 000

[nT]

Coverage of new data
1:10 000 000

New data

Based on the Geology of Karamoja. 1:250 000 scale map, Department of Geological Survey and Mines, Uganda, Lmtehbe 1966

South Sudan
Democratic Republic of the Congo
Kenya
Tanzania
Rwanda

Lake Albert
Lake Kyoga
Lake Victoria
Lake George
Lake Edward
Lake Wamala

Moyo
Yumbe
Koboko
Arua
Adjumani
Gulu
Nebbi
Kitgum
Kotido
Pader
Moroto
Lira
Apac
Kaberamaido
Kumi
Kapchorwa
Soroti
Kaabong
Nakapiripirit
Pallisa
Mbale
Masindi
Hoima
Nakasongola
Kamuli
Kibuga
Luwero
Kayunga
Iganga
Mayuge
Busia
Tororo
Kabale
Bundibugyo
Fort Portal
Kasese
Kamwenge
Kyenjojo
Mubende
Mityana
KAMPALA
Mukono
Mpigi
Entebbe
Ssembabule
Ssese Islands
Masaka
Bushenyi
Mbarara
Rakai
Rukungiri
Ntungamo
Kanungu
Kisoro

0 25 50 75 100 km

Surficial deposits
1:5 000 000

Alluvium, swamp
Laterite

Digital elevation model in grey tones in the background, lakes in light blue

Lithology

Cenozoic rocks (~ 66 Ma)
1 Albertine Rift: alkaline lava, lapilli tuff
2 Albertine Rift: silt, sand, gravel
3 Bufumbira Formation; basalt, tuffite, basanite, ash, tuff, scoria
4 Tiljon Complex; carbonatite, nephelinite, lava, agglomerate, lahar
5 Ngenge Formation; nephelinite, basalt

Mesozoic rocks (66 – 252 Ma)
6 Ecca Formation; mudstone, siltstone
7 Kiruruma River Formation; tillite

Neoproterozoic rocks (541 – 1000 Ma)
8 Bunyoro Group; shale, slate, phyllite, sandstone, quartzite
9 Adjumani-Maligo Suite; granite (~0.66 Ga)
10 Labwor Hill Suite; charnockite, granite (~0.68 Ga)
11 Kitgum granite (~0.70 Ga)
12 Lamwo Suite; granite, charnockite
13 Okaka Suite; granite, charnockite, anorthosite (~0.74 Ga)
14 Gneissic granitoid
15 West-Karamoja Group; gneiss, granulite
16 Karasuk Supergroup; gneiss, granulite, marble, amphibolite, quartzite

Mesoproterozoic rocks (1000 – 1600 Ma)
17 Quartzite, mica schist
18 Intermediate metavolcanic rock (~0.98 Ga)
19 Igisi Group; mica schist, quartzite, ironstone
20 Porphyritic granite
21 Kalluezo ultramafic rock
22 Mityana Group; sandstone, conglomerate
23 Rugezi Group; siltstone, sandstone, conglomerate
24 Cyohoha Group; shale, slate, phyllite, felsic metatuff
25 Pinduru Group; shale, slate, phyllite, quartzite
26 Gikoro Group; shale, slate, phyllite, sandstone
27 Ruvuba Group; quartzite, slate, conglomerate
28 Moyage Group; shale, slate, quartzite, conglomerate

Paleoproterozoic rocks (1600 – 2500 Ma)
29 Bwaziguro Group; sandstone, conglomerate
30 Mubende-Singo Suite; porphyritic granite (~1.85 Ga)
31 Kagadi porphyritic granite
32 Namuswa Group; sandstone, conglomerate
33 Sembabule Suite; granite (~1.99 Ga)
34 Slate, phyllite, mica schist, metasandstone
35 Mafic metavolcanic rock
36 Orthoquartzite, conglomerate
37 Rakangiri Suite; granite, variable granitic gneiss (~2.15 Ga)
38 Kihoga Suite; granite, feldspar porphyry (~2.48 Ga)

Neoarchaean rocks (2500 – 2800 Ma)
39 Fort Portal granite
40 Kayango granite (~2.59 Ga)
41 Namugongo granodiorite, Lumyo granite
42 Masaba biotite granite
43 Nabukalu gabbro (~2.61 Ga)
44 Abiba Formation; leuco- to mesocratic gneiss
45 Mangahbwa
46 Maluba nepheline syenite (~2.63 Ga)
47 Golomolo granite (~2.63 Ga)
48 Nakaongola-Bukunga granite
49 Kampala Suite, granite, granite gneiss
50 Gneissic granitoids of Ugandan Neoarchaean (2.59-2.65 Ga)
51 Tara brown granite (~2.62 Ga)
52 War Group; mafic metavolcanic rock, fuchsite quartzite (~2.64 Ga)
53 Lobule Group; granulite gneiss, amphibolite (~2.63 Ga)
54 Granulitic granitoid and gneiss
55 Tororo Suite; granitic gneiss, mica gneiss (~2.64 Ga) / Na-K metasomatic halo
56 Yumbe Complex; granitic and sedimentary gneiss
57 Amuru Group; gneiss, amphibolite
58 Iganga Suite; granite, granodiorite
59 Kavirondian Supergroup; quartzite, felsic metavolcanic rock (~2.64 Ga)
60 Nyanzian Supergroup; mafic to felsic metavolcanic rock, metachert

Mesoarchaean rocks (2800 – 3200 Ma)
61 Karuma Complex, felsic and mafic granulite, charnockite
62 Goli charnockitic gneiss (~3.08 Ga)
63 Granite gneiss
64 Ulippi Group; leucocratic gneiss and granulite

Dykes
Dolerite (Neoproterozoic/Mesoproterozoic)
Lake Victoria Arcuate Dyke Swarm (~1.37 Ga)
Metadolerite (Palaeoproterozoic/Archaean)

Structural elements
Fracture
Normal fault
Strike slip fault
Thrust fault

Bibliographic reference: [1]Lehto, T., [2,3]Westerhof, A.B., [1]Lehtonen, M.I., [2]Manninen, T., [4]Mäkitie, H., [5]Virransalo, P., [6]Pekki, J., [1]Härmä, P., [2]Kosztinen, T., [2]Saalmann, K., [7]Kuosmanen, E., [2]Manttäri, I., [8]Katto, E., [9]Itaguma, Z., [3]de Kock, G. and [2]Lintjo, D. 2014.
Geological Map of Uganda, Scale 1:1 000 000. Geological Survey of Finland, Espoo, Finland.

[1] Geological Survey of Finland, Finland, www.gtk.fi
[2] Department of Geological Survey and Mines, Uganda
[3] Council for Geoscience, South Africa
[4] Fels Consultants Ltd, Uganda
[5] Present address: Westcourt Geoconsult, the Netherlands

GIS processing: [7]Kuosmanen, E. and [5]Virransalo, P.

Lithology: modified from the data created by **Sustainable Management of Mineral Resources Project: Geological Mapping, Geochemical Surveys and Mineral Resources Assessment in Selected Areas of Uganda, 2008 – 2012**.
Geophysical data: Fugro Airborne Survey 2008, processed by [7]Kuotoniemmäki, T..
Topographic data: National Forestry Authority (NFA), Uganda.
Digital elevation model: SRTM, U.S. Geological Survey, resolution 90 metres, datum WGS84, (2008).

Spatial reference:
WGS 1984 UTM Zone 36N
Projection: Transverse Mercator
False Easting: 500000.0
False Northing: 0.0
Central Meridian: 33.0
Scale Factor: 0.9996
Latitude of Origin: 0.0
Linear Unit: Meter (1.0)

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