



Brown, FH, 2017, Preliminary compiled geologic map of the Koobi Fora Formation exposures, Allia Bay area, east of Lake Turkana, Kenya, Unpublished map, Department of Geology and Geophysics, University of Utah. Salt Lake City, Utah.

**KEY**

- Younger alluvium, mainly sand and gravel in active channels and on bars
  - Older alluvium, including sand dunes, beach deposits, and gravel lag.
  - KBS and Okote members. Fluvial and lacustrine strata including lake margin strata. KBS Tuff (H-2, 1.87 ± 0.02 Ma) at base; includes Malbe Tuff (1.84 ± 0.02 Ma), Orange Tuff (J, 1.76 ± 0.03 Ma), Black Pumice Tuff (1.53 Ma), Morte Tuff (1.51 ± 0.02 Ma), Lower Koobi Fora Tuff (1.48 Ma), Akait Tuff (K-3, 1.44 ± 0.02 Ma).
  - Upper Burgi Member. Mainly lacustrine strata. Includes Borana Tuff (~1.94 Ma).
  - Lower Burgi Member. Mainly fluvial strata with minor lacustrine strata. Includes Burgi Tuff C-6, 2.64 ± 0.03 Ma at base, and Lokalelei Tuff (D, 2.53 ± 0.03 Ma).
  - Tulu Bor Member. Mainly fluvial with minor lacustrine strata. a-Tulu Bor Tuff at base (B, 3.44 ± 0.02 Ma); includes Toroto Tuff (B-2, 3.31 ± 0.02 Ma), Allia Tuff, Waru Tuff (B-5, ~3.24 Ma); Ninikaa Tuff (3.08 ± 0.04 Ma), and Hasuma Tuff (C).
  - Moiti and Lokochot members (=Kataboi Mb of Nachukui Fm.). Lower half fluvial sandstones, siltstones, mudstones with paleosols; upper half with diatomites, siltstones, and claystones. Includes Moiti Tuff at base (<A, 3.97 ± 0.03 Ma); Wargolo Tuff (3.80 ± 0.02 Ma), and Lokochot Tuff (A, 3.60 ± 0.05 Ma)
  - Kataboi Basalt of Gomba Group basalts. High TiO<sub>2</sub>; intrusive into Lonyumun Member in places elsewhere a flow or flows. Age ~4.05 Ma. As mapped includes some sedimentary strata below the basalt flows.
  - Lonyumun Member. Mainly siltstones, claystones, and diatomites; minor tuffs. Age range 3.97 Ma to ~4.3 Ma. Includes Topenawi Tuff (<A, 3.99 ± 0.03 Ma) and Naibar Tuff (<A; 4.02 ± 0.04 Ma)
  - Pre-Pliocene rocks. Oligocene and Miocene volcanic rocks; rhyolites of Shin, Derati, Kubi Algi, and Sibilot, and undifferentiated basalts.
  - + K99-xxxx (X) Analyzed volcanic ash sample with Shungura submember in parentheses
- Mapping of KBS Member from Feibel, Lepre, & Quinn (J. Hum. Evol. 57, 112-122, 2009), with additions from analyzed tuffs