

The object of this note is to record that the observations of the Nyasaland Geological Survey in and west of the Nyasan trough entirely confirm those of the Tanganyika Geological Survey on the eastern side. These observations may be summarized as follows :—

1. The Mafingi (Muva-Ankole) sediments north-west of Lake Nyasa show ample evidence of compression, and in the northern part of the Mafingi Mountains a magnificent overfold can be observed, in which the direction of movement is approximately parallel with the general direction of the neighbouring part of the Rift. But these movements were definitely pre-Karoo.

2. North-west of Lake Nyasa Karroo sediments lie west of, on the margin of, and within, the Rift; these sediments have been subject to early post-Karoo faulting and to Rift faulting, but in no case, except locally near the major post-Karoo faults, has any evidence of compression been observed, whereas there is ample evidence of block faulting. Farther south, in the Lake Chilwa region, pre-Karoo (? Waterberg) sediments lie undisturbed, apart from vertical movements, on the floor of the Rift.

3. North-west of Lake Nyasa, early Cretaceous, Tertiary, and Quaternary sediments also lie along the margin of, and within, the Rift; no evidence of compression has been observed, but all have been subject to block-faulting, and the older beds have been repeatedly tilted in the one direction, towards the deepest part of the Rift; this hinge-faulting may be observed in parallel subsidiary rifts.

4. Where no sediments have been preserved, the crystalline rocks show step faults which vary from narrow shelves along the main walls to broad shallow steps that extend far out on to the floor of the Rift.

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A course of three lectures on "Problems of the Archaean and Iron Ore Formations of Middle Sweden" will be given by Professor P. D. Quensel (Professor of Mineralogy and Petrography in the University of Stockholm) at The Imperial College—Royal School of Mines (Prince Consort Road, South Kensington, S.W. 7), on 19th, 20th, and 22nd November, at 5.30 p.m. At the first lecture the Chair will be taken by Dr. H. H. Thomas, M.A., Sc.D., F.R.S., F.G.S. Admission Free, without Ticket.