

second in the Motuan, the third in the Haumurian, and the fourth in the Waipawan stage. The first two episodes are early Cretaceous and may represent a different phase of activity, unrelated to the late-Cretaceous–early-Tertiary igneous activity.

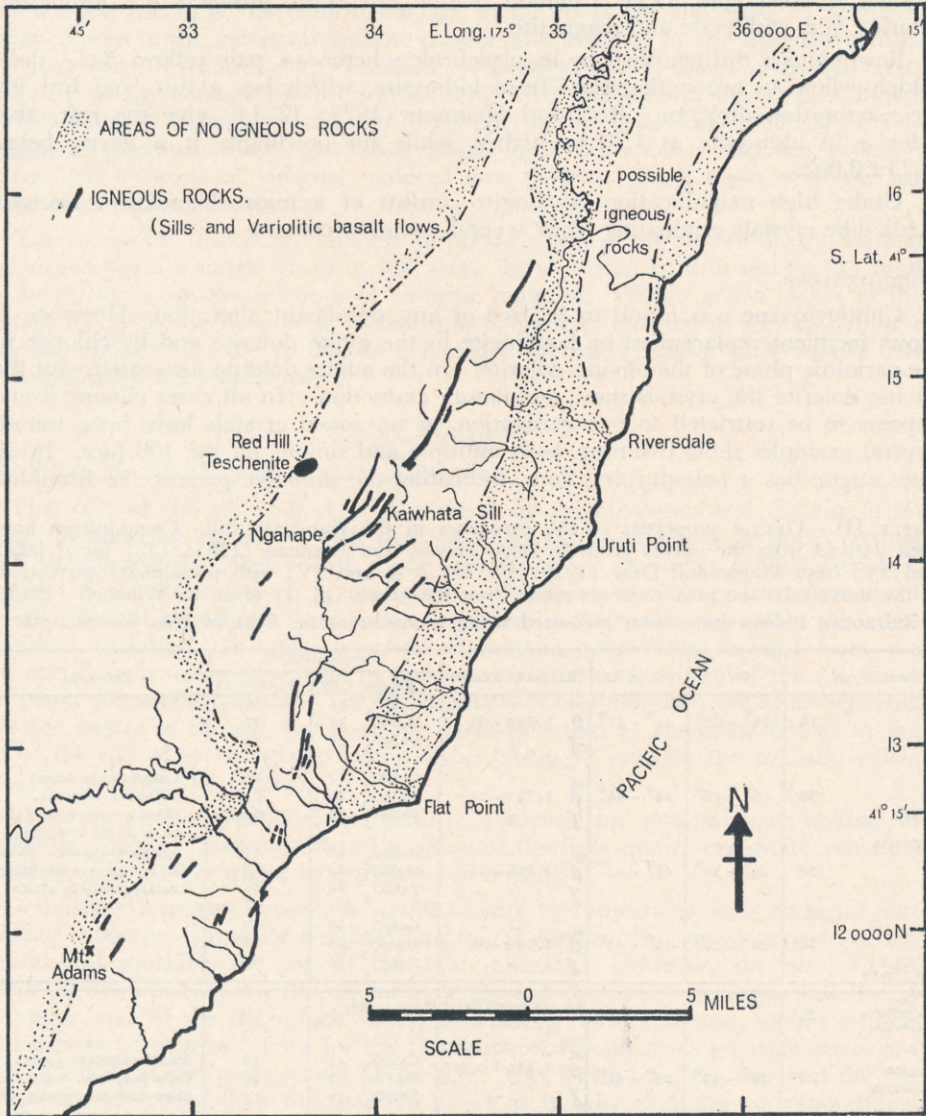


FIG. 2.—Map showing the areal extent of the "East Wairarapa Igneous Complex".

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Kingma (1959) states that the igneous rocks of Marlborough can be correlated with those of the Ngahape–Brocken Range area, but the writer agrees with Challis (1960), who has shown that the Marlborough igneous rocks cannot be correlated on either mineralogical or chemical evidence. Challis, however, notes that the Inland Kaikoura–Awatere River intrusions could be correlatives of the Cape Palliser rocks, but thinks that the Ngahape–Brocken Range rocks are younger. The East Wairarapa Igneous Complex thus seems to represent an isolated example of igneous activity in the East Coast Geosyncline during Cretaceous–Tertiary times.