

A gravity profile across Peninsular Malaysia.

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A gravity survey was run along the roads between Kuantan and Kuala Selangor passing through the Gap and Rawang. Stations were situated approximately every two miles along the road. Bouguer gravity has been corrected for terrain out to Hammer (1939) zone L and projected onto a line perpendicular to the geological strike of the peninsula.

The main features of the gravity profile and their possible significance can be summarized as follows:

- 1) almost identical gravity on each coast suggesting similar structure on each coast.*
- 2) a gravity minimum associated with the Main Range.*
- 3) a gravity maximum in the vicinity of Kampong Awah possibly caused by denser rocks near the surface.*
- 4) the features of the profile are all sharp indicating sources near the surface; some can be readily correlated with obvious geological features such as the Lebir Fault.*

Several models have been tested against the observed profile.

Interpretation is complicated by the lack of density information for many of the major rock units. All interpretations require the thickest granite under the Main Range and relatively thin granite under the Mesozoic sediments in the central part of the peninsula.

The structural information revealed or hinted at by this survey emphasizes the need for further gravity surveys in the country.
