

AIRBORNE GEOPHYSICAL SURVEY CENTRAL BELT PROJECT OF PENINSULAR MALAYSIA

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An area of 31,000 square kilometres was surveyed using a Bell 212 helicopter equipped with a digitally recording standard sensitivity magnetometer and a differential four channel gamma-ray spectrometer. North 30° East flight lines with spacing of 600 metres and North 120° East tie lines with spacing of 6.0 kilometres were used. Total lines flown is 58,000 line kilometres. Magnetometer sensor height is a nominal 125 metres. Navigation is visual using 1:25,000 topographical maps and doppler navigational aid.

The specific objectives of the survey are :

- a) To recognise and delineate magnetic anomalies caused by granitic intrusives which may have mean dimensions as small as 500 metres.
- b) To delineate basement structure that may assist in the recognition of features favourable for base metal mineralisation.
- c) To map the natural gamma-ray activity of the surface rocks and soils for recognising radioactive mineral deposits of possible economic significance and mapping lithological boundaries, possibly delineating granitic intrusives.

To achieve these objectives, a small terrain clearance and close flight lines interval are necessary. In the present area, some locations with appreciable topographic relief as well as dense forest cover data acquisition can only be accomplished by using a rotary-wing aircraft.
