

## Magnetic anomalies in the southern Kerguelen Plateau

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Kerguelen Plateau is one of the large igneous provinces (LIPs) and considered to be formed during long Cretaceous normal chron. Magnetic anomalies in the southern Kerguelen Plateau were compiled. Short wavelength magnetic anomalies with large amplitude ( $> 500$  nT) are observed in the southern Kerguelen Plateau. Long wavelength magnetic anomalies also show large amplitude magnetic anomalies ( $> 200$  nT) and those trends almost coincide with the structural trends. However, some magnetic anomaly trend are almost perpendicular to the structural trends and large magnetic contrast is necessary to explain. These result suggest that Kerguelen hot spot was active priori to long Cretaceous normal chron.

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