

Geodynamo and the core-mantle interaction

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The main part of the geomagnetic field is generated by dynamo action in the electrically conducting fluid iron core. The fluid core is enclosed by the mantle, and, hence, the thermal activity of the mantle mainly control the generation process of the geomagnetic field and its variations in various time scales. Here, recent progress in the investigation of the geodynamo process is reviewed and the various aspects of external influence on the geodynamo process including the geomagnetic reversals are discussed.