



Consideration of External and Induced Contributions in Geomagnetic Field Modeling - Present Concepts and Future Prospects

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Magnetic field contributions from ionospheric and magnetospheric sources (and their induced counterpart) are the largest source of "noise" when deriving models of the Earth's magnetic field using high-precision magnetic satellite data. Significant progress has been made during the last years to obtain a better description of large-scale magnetospheric and induced field contributions.

I will present the different approaches (and their impact on the derived models of the main field and its time changes), and discuss suggestions for future improvements.