



A revised geomagnetic model for Albania, south-east Italy from 1988 to 2006 with prediction to 2010

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A geomagnetic reference model is revised for the region comprising Albanian territory, south-east part of Italian Peninsula and confining Sea from 1988 to 2006 with prediction to 2010. The model is based on three-component magnetic field observations taken during some campaigns of measurement of Albanian and Italian magnetic repeat station network, as well as from a selected set of Ørsted, Champ and Sac-c satellite magnetic field measurements. This model is designed to represent the components X,Y,Z and the total intensity F of the main geomagnetic field over the region of concern. This analytical representation is based on an expansion of the magnetic potential in terms of spherical cap harmonics applied to a cap of semi angle 8° . It can be used as a reference model to reduce magnetic surveys undertaken in the area during the time of validity of the model.