



Long-term external effects in annual means from observatory and main field models

Cristiana Stefan, Crisan Demetrescu, and Venera Dobrica

Institute of Geodynamics, Romanian Academy, Bucharest, Romania (cristiana_stefan@geodin.ro)

We analyze long-term observatory data in terms of external effects present in the annual averages of recorded values and model the corresponding time series by means of a combination of geomagnetic indices as proxy for various current systems in ionosphere and magnetosphere that add external effects to the internal field. We show that the external contribution leaks into main field models based (mainly) on observatory data (gufm 1, IGRF, CM4) and discuss its evolution since 1600.