



On the ~ 80 -year variation of the core surface geomagnetic field. Derivation and characteristics

C. Stefan, V. Dobrica, and C. Demetrescu

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

High-frequency ingredients, at time scales of 22 and ~ 80 years, present in observatory data and main field models, are also components of the radial field evolution at core surface. In this paper we focus on the ~ 80 -year variation in the gufm1 model. Time-longitude plots covering a time span of about 320 years, at various latitudes between 60N and 60S, show a clear westward movement of the ~ 80 -year features from the 30S-30N latitude band. The travelling speed of the latter is derived empirically and by means of spectral analysis. Time-latitude plots for several longitude bands indicate also a northward component of the movement of some features.