

Interactive comment on “Snowstorm at the geomagnetic observatory” by R. Čop

R. Čop

rudi@artal.si

Received and published: 22 April 2015

Thanks for your appreciated opinions and suggestions.

My article is a test to connect the geomagnetism and meteorology. It is a little bit an unusual, I know. For this reason it combines descriptions of conditions, presentation of results of measurements, results of processing of them and initial points for further work.

The Formula 1 is used to calculate the effects of lightning presented as the ratio in the last column of Table 1. The Formula 2 is the Laplace transform like more generally presentation of Fourier transform. In Figure 7 are presented the results of numeric Fourier transform of passing of storm front in solar quiet day. Therefore a formal description of mathematical model is really not a problem.

C19

The influence of storm front on local geomagnetic field is not daily cyclical event and for this reason not a part of solar quiet day. Description of solar quiet day and verification of mathematical models of perturbations of geomagnetic field is out of the goal of this article.

The most important next step is repetition and consolidation of measurements passing storm fronts also on other observatories. For excuse of this boring work I mentioned in Conclusions also the other effects and influences of this natural event.

Best regards,

Rudi Čop

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., 5, 1, 2015.