

Supplement of Solid Earth, 9, 491–503, 2018
<https://doi.org/10.5194/se-9-491-2018-supplement>
© Author(s) 2018. This work is distributed under
the Creative Commons Attribution 4.0 License.



Supplement of

Geomagnetic field declination: from decadal to centennial scales

Venera Dobrica et al.

Correspondence to: Venera Dobrica (venera@geodin.ro)

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.

Supplementary material

5

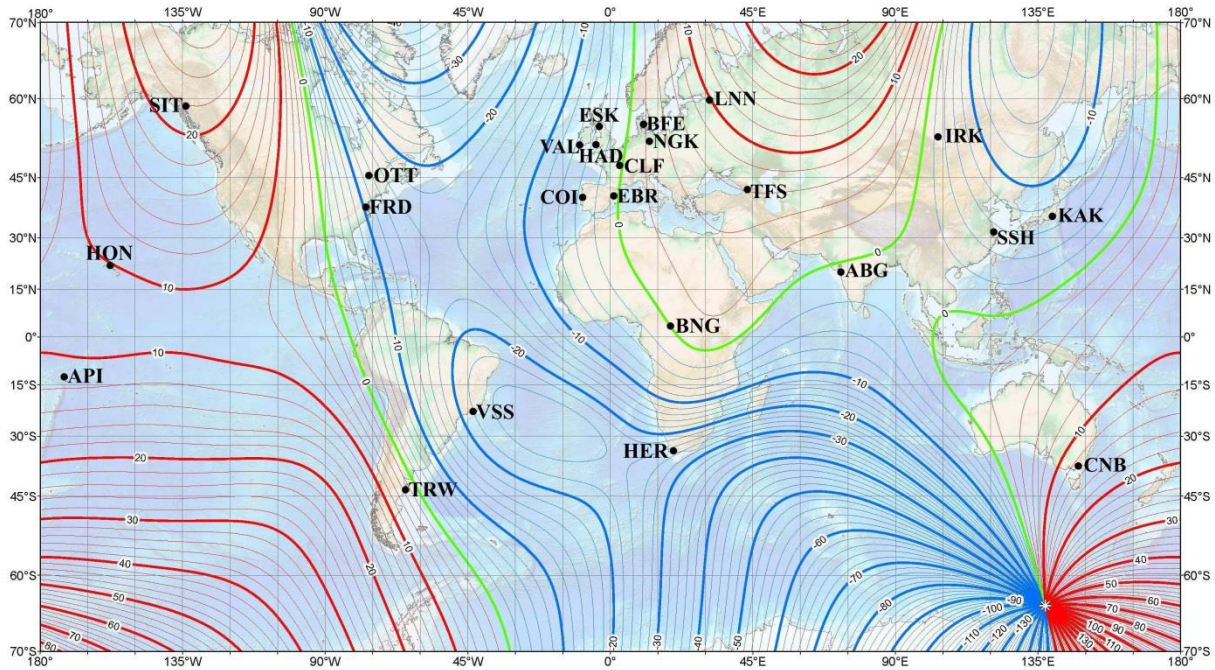


Figure S1: Geographical distribution of magnetic observatories providing recordings more than 100 years. IAGA codes are used.

Background – 2010.0 declination map from

10 http://www.ngdc.noaa.gov/geomag/WMM/data/WMM2010/WMM2010_D_MERC.pdf.

15

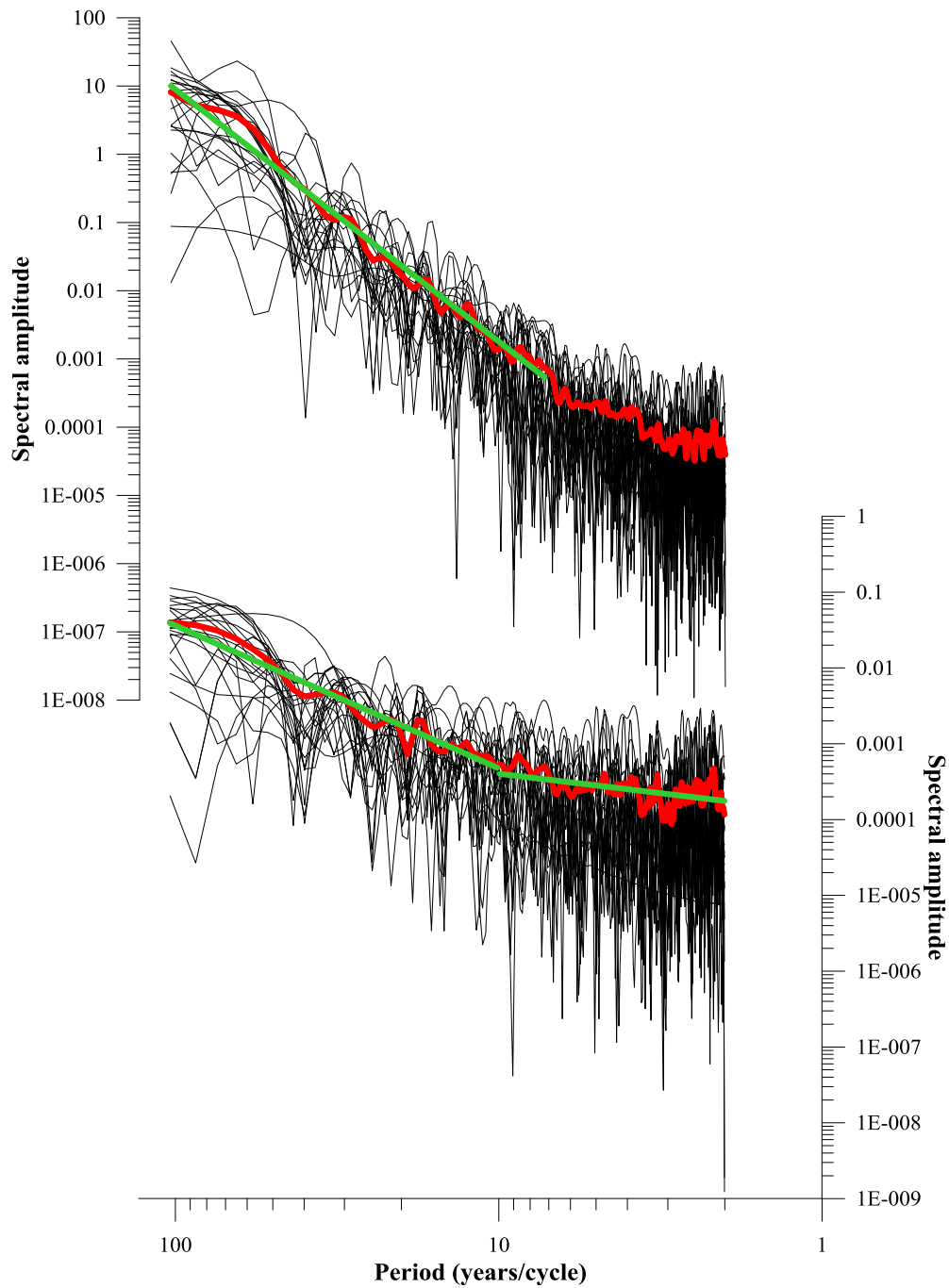


Figure S2: FFT power spectrum in a log-log representation: observatory declination time series (top); (b) declination time derivative time series (bottom). The average power spectrum (red) and the best power-law fit (green).

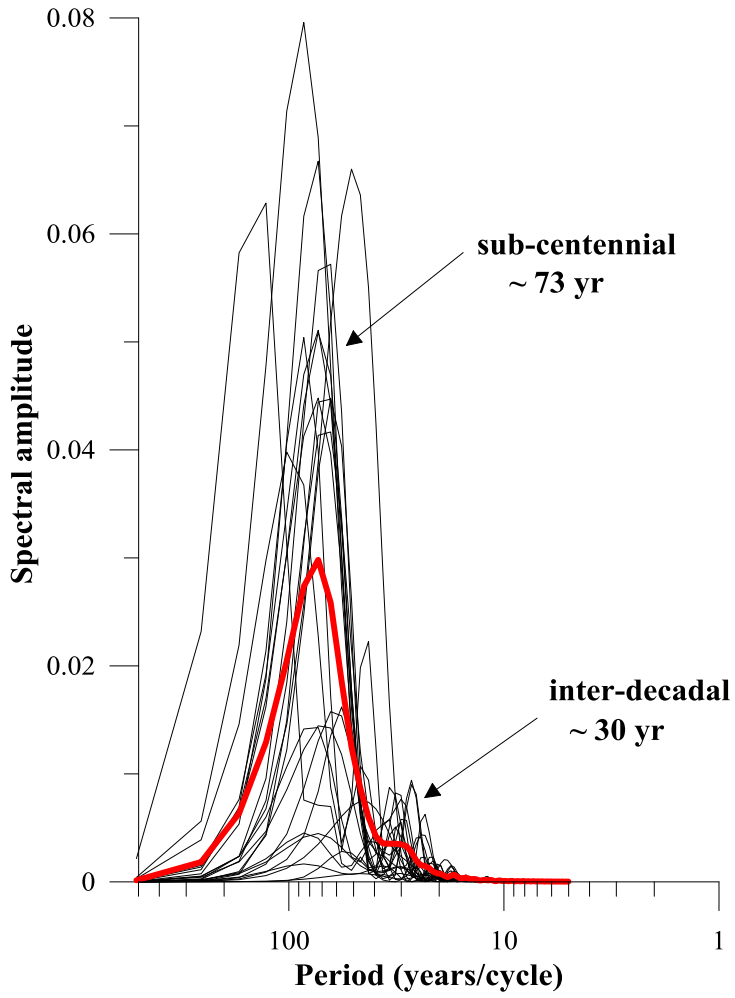


Figure S3: FFT power spectrum for the HP trend (i.e. the ~11-year variation removed) of declination first time derivative. The average power spectrum (red).

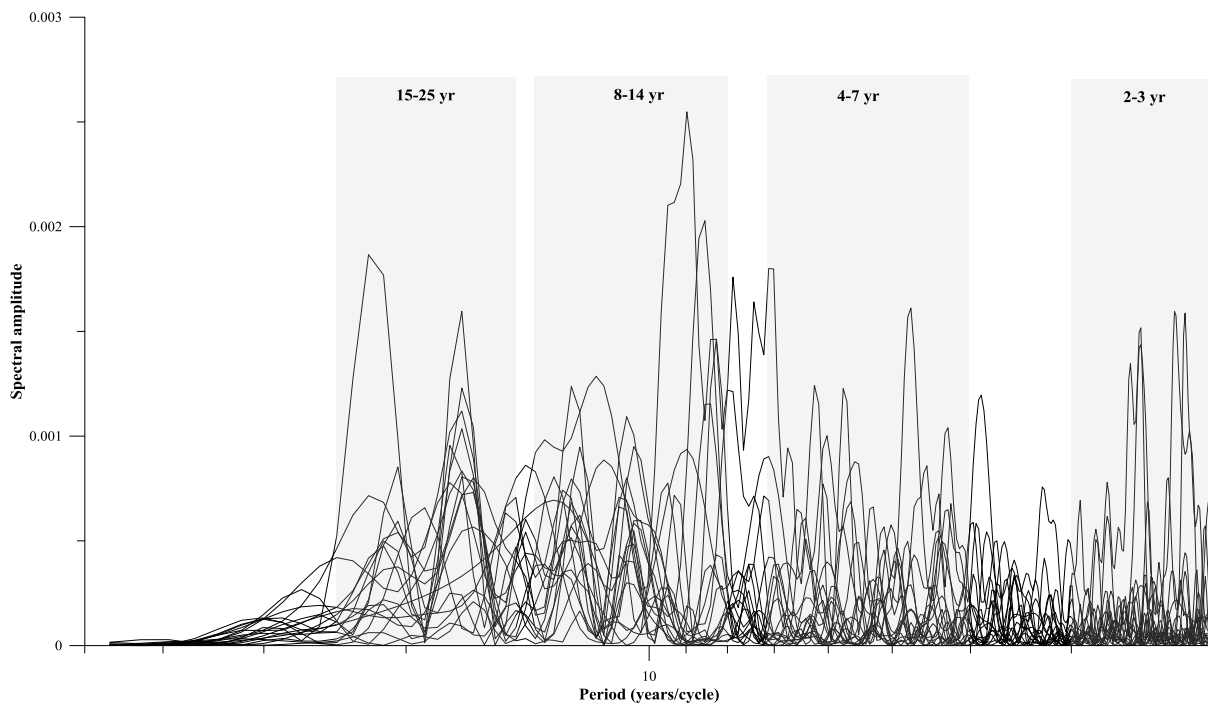


Figure S4: FFT power spectrum for the cyclic constituent from HP filtering of the first time derivative of declination. Gray background: domains of 8-14 years, 15-25 years, 4-7 years and 2-3 years.