

## ***Interactive comment on “Saint Petersburg magnetic observatory: from Voeikovo subdivision to INTERMAGNET certification” by Roman Sidorov et al.***

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Dear László, Thank you very much for your referee comment on our manuscript. We'll consider the issues you mentioned and update our paper with the details on them. Now we are glad to answer to your comments and questions.

1. On the copper wires of the heating system. Currently the copper heating system is not used. We'll mention this in the section 2.2.
2. On the underground cable lines. The cables used for power supply for the magnetometers, as well as the data cables, are not so long, and of course they are protected

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by the lightning protection modules. We'll also mention this in the text.

3. On the data comparison between SPG and other observatories. Initially we performed the correlation calculation for the data from even more magnetic observatories along the magnetic latitude of the SPG. I supposed that the display of the correlation between the SPG and NUR data is enough (as UPS is close to NUR too), and the comparison between SPG and LER which is farther from this latitude was a sort of experiment. Now, after your comment, we have calculated the correlations between SPG and UPS and we'll provide the corresponding rows in the tables for correlation coefficients.

4. On the data check using another magnetometer at the same location. Yes, in future such analysis will be possible. In June 2017 we installed a new POS-4 vector Overhauser magnetometer at the one of supplementary pavilions at the SPG observatory in a test mode (later it will be relocated to another station), and the provisional comparison between the H, Z and F data from POS-1 and from the FGE and GSM magnetometers showed generally good agreement; later we'll analyze and compare the data for a longer period.

Thank you again for your opinion on the manuscript and your useful comments and advice.

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