

Interactive comment on “CLUSTER STAFF search coils magnetometer calibration – comparisons with FGM” by P. Robert et al.

Anonymous Referee #2

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This paper presents various technical details about search-coil calibration onboard Cluster spacecraft. The techniques presented are effective and accurate as evidenced by using in-flight data. In particular comparisons with flux gate magnetometers are unique and important for cross-check of the accuracy of the magnetic field observation in space. This work should be a good reference for those involved in search coil data analysis with other spacecraft missions. I think the manuscript is suitable for publication in the GI journal.

Minor (mostly technical) comments are as follows:

- p.690, l.7: (x y y) should be (x y z)?

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- p.694, l.21: (x y y) should be (x y z)?
- p.696, l.6: What is "tk"?
- p.699, l.15: "do to" -> "due to"?
- p.700, l.1: "transfer" -> "transfer function"
- p.701, l.7: "Fig. 12" -> "in Fig. 12"
- p.701, l.8: What is "TM"?
- p.702, l.11: How do you define the calibrated result has a "best" quality?
- p.703, l.8: "build-in" -> "built-in"
- p.704, l.26: "Normaly" -> "Normally"
- p.706, l.9: "give" -> "gives"
- p.708, l.5: What is "NBR"?
- p.711, l.9: "DC files" -> "DC fields"?
- p.711, l.15: In Figure 24, the difference between the upper and lower panels are just the horizontal scales (linear vs. log)? Please define what the green line means here.
- p.714, l.12: "depends of" -> "depends on"
- p.725, Fig.5: The influence of power lines at 150 Hz is hard to observe in this figure.

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., 3, 679, 2013.

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