

Interactive comment on “Building a Raspberry Pi School Magnetometer Network in the UK” by Ciarán D. Beggan and Steve R. Marple

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This paper presents a novel UK network of magnetometers that promotes engagement of schools with geophysics. The paper is suitable for GC, well written and interesting, illustrated with useful figures, and publishable in almost its present form with a few minor technical corrections.

Technical typos 1. Abstract - last sentence, system not systems. 2. Introduction - "over periods" is ambiguous. Does this convey the time period i.e. 2 Pi/frequency or length of data window? 3. What is the actual price of one of the authors' magnetometers? Only a relative value is given. This might be helpful for others to see how much it would cost to join their network. 4. Section 2, l1 varies both <in> time.. 5. Section

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2, l14, temperature measurements of what? Please be more specific. Presumably you mean of the atmosphere, and direct measurements rather than by proxy? 6. l29 typo: seasonal 7. Section 3.1, l23 the current <difference> is .. 8. Section 2.1, l33 can be calculated, <which may also be expressed as> D, l... 9. Section 3, l22 if the <calibration> magnetic field.. 10. Section 5. l4. Please make clear that X is the most sensitive component as the electrojet flows East-West. 11. Fig3. I found the bottom axis label confusing - it looks like its in units of nT/C. I suggest using a right axis, separating out the two quantities: i.e nT on the left axis, degrees C on the right. Also, you report only temperature variation - what is the baseline that you've used? i.e. what does zero temperature represent?

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