

Hist. Geo Space. Sci. Discuss., author comment AC2  
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## Reply on RC1

R. Giles Harrison and John C. Riddick

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Author comment on "Atmospheric electricity observations at Lerwick Geophysical Observatory" by R. Giles Harrison and John C. Riddick, Hist. Geo Space. Sci. Discuss., <https://doi.org/10.5194/hgss-2022-6-AC2>, 2022

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We appreciate the attention given to the manuscript and the positive comments. We intend to include examples of the record sheets in a revised manuscript. Thank you for identifying the minor errors which we will correct.

The broader context of atmospheric electricity measurements is worth adding a little more material around, but the longevity of the measurements at Lerwick is such that it could easily become very extensive, surveying much of the measurement work in the twentieth century. Interesting though it is, it is probably best to restrict discussion to measurement sites operating in the earlier part of the Lerwick record. The work of the Carnegie Institution of Washington is probably especially important, firstly in operating its famous geophysical survey ship, and secondly in establishing well-regulated measuring sites internationally such as at Huancayo and Watheroo. With a more European perspective, reference table XVII of the Atmospheric Electricity textbook[1] by H. Israël mentions many sites operating during the first half of the twentieth century, including at Potsdam, Frankfurt, Uppsala.

Some further insight into the international atmospheric electricity community and measurement sites can be found in the major text books by J. Alan Chalmers and Hans Israël, and the associated biographical material ([2],[3]).

[1] Israël H., Atmospheric electricity vol. 2 (Fields, charges, currents), Problems of cosmic physics vol.29, Israel Program for Scientific Translations, Jerusalem, 1973.

[2] Aplin, K.L., Atmospheric electricity at Durham: the scientific contributions and legacy of J. A. ("Skip") Chalmers (1904–1967) <https://hgss.copernicus.org/articles/9/25/2018/>

[3] Dolezalek, H., Obituary of Hans Israël, Pur Appl Geophys 100, 5-6, 1972.  
<https://link.springer.com/content/pdf/10.1007%2FBF00880223.pdf>