

Full list of publications - Prof Giles Harrison

Number	Year	Title and citation
342	2024	R. Giles Harrison , Ahmad A. Alkamali, Veronica Escobar-Ruiz, Keri A. Nicoll, Maarten H.P. Ambaum, Providing charge emission for cloud seeding aircraft <i>AIP Advances</i> (in press, ADV24-AR-03466R)
341		Giles Harrison , Alec Bennett, Caleb Miller, David Bullock, Storm Ciarán's effect on the boiling point of water in the south-east of the UK <i>Weather</i> (2024) https://doi.org/10.1002/wea.4611
340		R.G. Harrison , and S.D. Burt, Accuracy of daily extreme air temperatures under natural variations in thermometer screen ventilation <i>Atmos Sci Lett</i> (2024) https://doi.org/10.1002/asl.1256
339		Giles Harrison , Sparks from the past <i>The Conversation</i>
338		Rycroft, M.J., Odzimek, A. and Harrison, R.G. , Determining the time constant of the global atmospheric electric circuit through modelling and observations. <i>J Atmos Solar-Terr Physics</i> 260, 106276, https://doi.org/10.1016/j.jastp.2024.106267 (2024)
337		R.G. Harrison , and J.C. Riddick, Atmospheric electricity observations at Eskdalemuir Geophysical Observatory, <i>Hist. Geo Space. Sci</i> 15, 5–16, https://doi.org/10.5194/hgss-15-5-2024 (2024)
336		C. Miller, and R.G. Harrison , Atmospheric electricity 'CTR Wilson' meeting 2023 <i>Weather</i> http://doi.org/10.1002/wea.4544
335		Giles Harrison , <i>Weather and the Solar Eclipse - Nature's Meteorological Experiment</i> . In: Henrike Lange and Tom McLeish (eds), Eclipse and Revelation: Total Solar Eclipses in Science, History, Literature and the Arts , Oxford University Press, 384pp
334		C. Miller, K. Nicoll, C. Westbrook, and R.G. Harrison Evaluating atmospheric electricity changes as an indicator of fog formation <i>Quart Jour Roy Meteorol Soc</i> 150 , 761(B), 1892-1906, (2024) https://doi.org/10.1002/qj.4680
333		M.W. Airey, R.G. Harrison , K.L. Aplin, C. Pfrang, B. McGinness, Electrical effects on droplet behaviour , <i>J. Phys.: Conf. Ser.</i> 2702 012015 (2024) doi:10.1088/1742-6596/2702/1/012015
332		Nicoll, K.A., V. Escobar-Ruiz, R.G. Harrison , M.H.P. Ambaum, A.A. Alkamali, A charge emitter for use in evaluating aircraft rainfall enhancement , <i>J. Phys.: Conf. Ser.</i> 2702 012005 (2024) doi: 10.1088/1742-6596/2702/1/012005
331		C. Miller, K. Nicoll, C. Westbrook, and R.G. Harrison , The effect of fog on atmospheric electric fields , <i>J. Phys.: Conf. Ser.</i> 2702 012002 (2024) doi:10.1088/1742-6596/2702/1/012002
330		B. McGinness, R.G. Harrison , K.L. Aplin and M.W. Airey, Evaluation of a point discharge sensor as an atmospheric electricity instrument , <i>J. Phys.: Conf. Ser.</i> 2702 012004 (2024) doi:10.1088/1742-6596/2702/1/012004
329		R.G. Harrison , Keri A. Nicoll, Maarten H.P. Ambaum, Charge in non-thunderstorm clouds and fogs , <i>J. Phys.: Conf. Ser.</i> 2702 012001 (2024) doi:10.1088/1742-6596/2702/1/012001
328	2023	Giles Harrison , "...since records began" – Christopher Wren's first automatic weather station (Department of Meteorology and Reading Physics blog, September 2023)
327		R. Giles Harrison , Veronica Escobar-Ruiz, Keri A. Nicoll, Maarten H.P. Ambaum, Isolated corona current monitoring using a compensated light-emitting diode as an unpowered sensor, <i>Rev Sci Instrum</i> 94, 094504 (2023) https://doi.org/10.1063/5.0170176
326		M.C. Prosser, P.D. Williams, G.J. Marilton, R.G. Harrison , Evidence for Large Increases in Clear-Air Turbulence over the Past Four Decades, <i>Geophys Res Lett</i> 50, e2023GL103814 (2023). https://doi.org/10.1029/2023GL103814
325		R. Giles Harrison and Kristian Schlegel, Atmospheric electricity observations by

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- 323 2022 **R.G. Harrison**, K.A. Nicoll, M. Joshi, E. Hawkins, [Empirical evidence for multidecadal scale Global Atmospheric Electric Circuit modulation by the El Niño-Southern Oscillation](#) *Environ Res Lett* 17, 124048 (2022)
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- 315 Edward Hanna, Karen Aplin, Halldor Bjornsson, Robert G. Bryant, John Cappelen, Robert Fausto, Xavier Fettweis, Edward Graham, **R. Giles Harrison**, Trausti Jonsson, John Penman, Dilkushi de Alwis Pitts, Alexander J. Bilton, Meteorological effects and impacts of the solar eclipse of 10 June 2021 over the British Isles, Iceland and Greenland, *Weather* 78, 5, 124-135 (2023) <https://doi.org/10.1002/wea.4175>
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- 309 **R.G. Harrison** and S.D. Burt, [Quantifying uncertainties in climate data: measurement limitations of naturally ventilated thermometer screens](#) *Environ Res*

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- 305 Maarten Ambaum and **Giles Harrison**, [Consider a spherical bird](#) Reading physics blog
- 304 **R. Giles Harrison**, Keri A. Nicoll, Douglas J. Tilley, Graeme J. Marlton, Stefan Chindea, Gavin P. Dingley, Pejman Iravani, David J. Cleaver, Jonathan L. du Bois, David Brus [Demonstration of a remotely piloted atmospheric measurement and charge release platform for geoengineering](#) *J. Atmos Oceanic Tech*, 38, 1, 63-75 (2021)
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