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Observations of electrical effects on clouds, linking solar activity with weather and climate change

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Observations show meteorological responses to short term changes in J_z , due to both solar and internal forcing. On the day-to-day timescale the responses agree in onset time, duration, and amplitude with the J_z changes, and exclude total solar irradiance and UV irradiance changes as causes. On the century and millennial timescales larger J_z changes and larger climate responses are to be expected.