

Deployment of a teaching material for observing electric field by sprite parent storm at high school

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Sprites are observed by many high school students by means of high sensitivity CCD cameras. They have revealed the optical characteristics of sprites (e.g. morphology and 3-dimensional location). However, they do not have materials to observe electrical phenomena originating from sprites. So, we developed a low cost field mill data acquisition system observing surface electric field change produced by sprite parent storms. Then, we deployed some field mills at high school in Tokyo. We will present some sample of the data observed and problems on the observations revealed.

Keywords: sprite, electric field observation, teaching material