**Oral | Symbol M (Multidisciplinary and Interdisciplinary) | M-IS Intersection**

[M-IS26_29AM2] Atmospheric Electricity

Convener: *Yasuhide Hobara (Graduate School of Information and Engineering Department of Communication Engineering and Informatics, The University of Electro-Communications), Tomoo Ushio (Information and communication engineering department, Osaka University), Chair: Tomoo Ushio (Information and communication engineering department, Osaka University)

Tue. Apr 29, 2014 11:00 AM - 12:45 PM 422 (4F)

All aspects of research area on Atmospheric Electricity will be discussed in this session, including global circuit, ion and fair weather electricity, thunderstorm electrification, lightning physics, lightning and meteorology, electrical effects of thunderstorms on the middle and upper atmosphere, lightning protection, seismo-electromagnetics, terrestrial electromagnetic environment and so on.

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12:30 PM - 12:45 PM

[MIS26-P02_PG] Preliminary Reports of Summer Sprite Observation Campaign at Summit of Mt. Fuji, Japan

3-min talk in an oral session

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Keywords: Sprite, Lightning, TLEs

Many investigations of transient luminous events (TLEs) such as sprites and elves have been carried out since the 1990s. However, there are still unsolved issues like the morphologies of sprites. One of approach to investigate this issue is statistical study with collecting many events. In this study, we report a preliminary result of a mountain observation which enables us to observe the TLEs for a long term at the fixed point. The mountain observation was conducted at the summit of Mt. Fuji (3776 meter altitude), Japan, which enables us to detect the TLEs above off the coast of Boso peninsula, Chiba, Japan and the coast of Japan Sea which a large number of summer TLEs and the winter TLEs due to energetic positive cloud-to-lighting occurs. In particular, the altitude of the summit is located over the summer cloud covering the wide regions, so that the distant TLEs can be observed and low pressure and clean air yield better color images of TLEs. Moreover, the lower cost operation is possible, comparing with than the aerial and balloon measurement. In the summer of 2013, we detected several events of TLEs with sensitive black-and-white CCD cameras at the fixed point for one month and with the color single-lens reflex camera. We will show the detailed analysis in the presentation. Such a mountain observation gives us a high chance to detect low-altitude blue-jets and starters and a 360-degree view from the isolated mountain, Mt. Fuji, also gives us a high change to detect a number of TLEs. In this presentation, we show the results of sprite images taken at the summit of Mt. Fuji on Aug. 2, 2014.

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