

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



MIS026-P05

Room:Convention Hall

Time:May 24 14:00-16:30

Development of small-size field mill for balloon measurement

Hironobu Fujiwara^{1*}, Rikuma Sakai³, Koji Inazaki², Masashi Kamogawa³

¹Joshiseigakuin High School, ²NEC system technology, ³Dpt. of Phys., Tokyo Gakugei

We developed a small-size field mill equipped with a data logger for balloon measurement. Purpose of this system is to monitor atmospheric electric field variation generated by thunderstorm and non-thunderstorm. The system is operated not only by battery without a commercial electric power but also in low temperature. In the presentation, we introduce a performance of our system and preliminary observation results.

Keywords: Atmospheric electric field, Field mill, Ion-aerosol