Development of small-size field mill for balloon measurement

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