

## Ion-aerosol and global-circuit origin atmospheric electric field

# Yoshihisa Kimura[1]; Masashi Kamogawa[1]; Hironobu Fujiwara[2]; Isao Yamamoto[3]

[1] Dep. of Phys., Tokyo Gakugei Univ.; [2] Dep. of Phys., Waseda Univ.; [3] ice.ous

<http://www.u-gakugei.ac.jp/~kamogawa/>

Variations of atmospheric electric field (AEF) measured by a field-mill are often similar to that of the number of positive ion-aerosol and total space charge. It can be qualitatively interpreted as an attachment of the positive ion-aerosol caused by global-circuit origin electric field and the space charge which corresponds to the difference between the positive and negative ion-aerosol number. In this study, we would like to try the qualitatively explanation of the relationship between AEF and ion-aerosol variations.