Atmos. Chem. Phys. Discuss., 6, S1855–S1856, 2006
www.atmos-chem-phys-discuss.net/6/S1855/2006/

Atmospheric Chemistry and Physics Discussions

Interactive comment on "Spectral characteristics of atmospheric pressure and electric field variations under severe weather conditions at high latitudes" *by* E. A. Kasatkina et al.

Anonymous Referee #2

Received and published: 18 July 2006

The paper reports a new combination of infrasound and atmospheric electricity measurements by applying modern data acquisition and processing methodology to two traditional scientific arenas. This refreshing approach is definitely worthwhile publishing, but I suggest to improve some major technical issues prior to publication.
* p.6615,l.25: Complete sentence 'Depending on its sign.'
* p.6616,l.23: Indicate the rain period in the figure, which seems to start *after* the conductivity variations. Please explain the scientific rationale for this observation.
* p.6617,l.6: The electric field is 10 kV/m while Emax of the instruments is 5 kV/m (p. 6616, l.6).
* p.6617,l.11-12: Infrasound from lightning is rather found in the frequency range of

some Hz.
* p.6618,l.25-26: Please explain in more detail what the scientific merit of the comparison between the various variables is, which may not be clear to the unexperienced reader. What is a '... not contradicting scheme of physical processes in atmosphere ?' Please elaborate.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 6613, 2006.

ACPD
6, S1855–S1856, 2006

Interactive Comment

EGU