



Hard X-ray observations of electron precipitation in January 2005

R. Bucik (1), **K. Kudela** (1)

(1) Institute of Experimental Physics, SAS, Kosice, Slovakia

We examine energetic electron precipitation by sounding of bremsstrahlung X rays produced in the residual atmosphere using SONG experiment on board low-altitude polar orbiting CORONAS-F satellite. We map flux changes in wide L shell range and in different local times during enhanced magnetic activity in January 2005. The comparison with simultaneous X-ray measurements from the MINIS balloons is presented. In one case, during the SSC on January 21 while MINIS balloons at southern hemisphere see MeV precipitation from the outer radiation belt, SONG instrument being located on the north, observes enhancements at the same L shells. This and another events (e.g. during the storm recovery phase) will be discussed.

This work was supported by the Slovak Research and Development Agency under the contract No. APVV-51-053805.