

Cosmic Ray Experiment on the KITSAT-1

Y. H., Shin, Y. W. Choi, K. W. Min and S. H. Kim
Satellite Research Center, KAIST

Abstract

The cosmic ray experiment (CRE) on board the KITSAT-1 has been operating normally since the launch of the satellite. CRE is composed of two parts : the cosmic particle experiment (CPE) and the total dose experiment (TDE). Of these, we will discuss on the CPE results obtained the last several months. The data show much larger high energy particle flux than the previous UoSAT-3 data. The SEU (single event upset) rate is also an order of magnitude higher than the UoSAT-3 result. We will compare these results with the predictions of the CREME code¹.

References

Adams, J. H., Jr., 1987, NRL Memorandum Report 5901