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Author: Dr. Kyung-Suk Cho
Korea Astronomy and Space Science Institute, Korea, Republic of, kscho@kasi.re.kr

KASI ACTIVITIES OF SPACE WEATHER FOR SATELLITE OPERATION

Abstract

"Space weather" refers to conditions on the Sun and in the solar wind, magnetosphere, ionosphere, and thermosphere. As civilization is spreading into space, we rely on space-borne (e.g. satellites) technologies that are vulnerable to space weather. The effects of the space weather on modern technological system are of growing interest around the world. Advanced countries in space development have their space weather programs (e.g. National Space Weather Program in U.S.A) to deal with these vulnerabilities. Since 2007, the Korea Astronomy and Space Science Institute (KASI) has initiated a research project for the construction of Korean Space Weather Prediction Center (K-SWPC) to make preparations for space weather calamities. In this talk, I briefly introduce current activities of space weather in Korea for satellite operation and discuss a national collaboration among the public, government, and military forces in Korea.