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SPACE WEATHER SERVICE IN KOREA

Abstract

The necessity of space weather information in Korea has grown recently, and is expected to increase more in near future. Starting from the launch of KSLV-1 at Naro Space Center, several more satellites are scheduled to be launched in Korea in the coming years. Moon exploitation mission is also being planned as a long-term project. Besides space industry, IT industry relevant to technologies such as satellite communication, navigation and GPS is also considered as a possible candidate for the most promising industry by Korean government. Therefore, space weather information providing system should be established and maintained to help those industries. As the sole space weather related company in our country, SELab, Inc. is planning to establish a space weather information service system. As a company, our goal is not only to play a role of space weather information portal in Korea, but also to provide the specifically processed information according to the requirement of space or IT related clients. The basic scientific data will be provided by government institutes such as Korea Astronomy and Space Science Institute, Air Force, and Korea Meteorological Administration. Observation facilities such as solar optical and radio telescope, Earth magnetometer, Ionosonde, GPS scintillation measure, VHF coherent scatter radar, etc. are being considered to be installed and managed by those institutes in near future. SELab, Inc. will develop a space weather data processing system based on those observation data and will be ready to assess the general and commercial needs of space weather information. Our detailed plan will be presented in this talk.