

On a new antenna system for reception of real-time solar wind data

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In-situ solar wind data are important for space weather to estimate effects of solar wind disturbances on magnetosphere and ionosphere of the Earth and investigate their solar sources. Since 1997, National Institute of Information and Communications Technology (NICT) contributes reception of real-time solar wind data from Advanced Composition Explorer (ACE), which observes solar wind at L1 point, for 24-hour data coverage. Deep Space Climate Observatory (DSCOVR) following on mission of ACE is plan to be launched in the end of 2014. NICT renews the antenna system, which enables to receive real-time data from DSCOVR. We will report on details of the new antenna system completed in March, 2014 and our application of real-time solar wind data in the presentation.

Keywords: solar wind, space weather, L1, ACE, DSCOVR