Geophysical Research Abstracts, Vol. 8, 02903, 2006 SRef-ID: 1607-7962/gra/EGU06-A-02903 © European Geosciences Union 2006



Solar, heliospheric, and magnetospheric disturbances in November 2004

Yu.I. Yermolaev (1), L.M. Zelenyi (1), V.D. Kuznetsov (2), I.M. Chertok (2), M.I. Panasyuk (3), I.A. Zhitnik (4) and SEE'04 Collaboration Team

1 Space Research Institute (IKI), Russian Academy of Sciences, Moscow, Russia; 2 Institute of Terrestrial Magnetism, Ionosphere and Radio Propagation (IZMIRAN), 3 Skobeltsyn Institute of Nuclear Physics, Moscow State University; 4 Lebedev Physical Institute, Russian Academy of Sciences, Moscow (yermol@iki.rssi.ru)

The main data on observations of the Sun, interplanetary medium, and magnetosphere, obtained before and during the strongest magnetic storm of November 08, 2004 (Dst=-373 nT), are presented (see preliminary version in paper by Yermolaev et al., A Year Later: Solar, Heliospheric, and Magnetospheric Disturbances in November 2004, Geomagnetism and Aeronomy, Vol. 45, No. 6, 2005). These events were observed in year after the series of the strongest solar flares (including flares of class > X17) and the magnetic storm with Dst = -401 and - 472 nT during October - November 2003. Although the number and power of the flares were much smaller during the period under study, the magnetic storm was one of the strongest for the entire period of observation of the Dst index and was apparently caused by the interaction of frequently occurred coronal mass ejections in the interplanetary space, as a result of which the region of interaction compressed and the southern IMF component increased to less than -45 nT. Paper is supported in part by RFBR, grant 04-02-16131.