



Provision of space weather bulletins in support to ESA missions

Michel Kruglanski (1), Andy Devos (2), Stijn Calders (1), Erwin De Donder (1), David Berghmans (2), Jesse Andries (2), Norma Crosby (1), Mark Dierckxsens (1), Alexi Glover (3,4)

(1) Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Brussels, Belgium, (2) Royal Observatory of Belgium (ORB-KSB), Brussels, Belgium, (3) SSA Programme Office, ESA/ESOC, Darmstadt, Germany, (4) RHEA System, Wavre, Belgium

The SSCC (SSA Space Weather Coordination Centre) is the focal point for user support of the ESA Space Situational Awareness (SSA) Program Space Weather Service Network (<http://swe.ssa.esa.int/>) and offers first line support to end-users. Its activities are gradually expanding as more products and tools are incorporated in the associated Network. Here we report on the tailoring of the network resources at the SSCC in order to produce space weather forecast notifications in support to selected ESA missions. With the help of forecasters from the Expert Service Centres (ECSs) for Solar Weather and for Space Radiation, the SSCC already has provided dedicated notifications for various missions including the launch window and the L2 insertion manoeuvre of the GAIA mission, for the last aerobraking campaign of Venus Express, during the trajectory around Comet 67P/Churyumov–Gerasimenko of the Rosetta mission and the landing of Philae lander, for the flight of the experimental IXV space plane, and for the launch LISA Pathfinder mission and during the operations phase at L1. Examples of space weather notification will be given. Those exercises are performed in a test and evaluation context helping to evaluate the network capabilities and to identify recommendations for improvement.