## Space weather data repository of solar and geomagnetic indices for atmospheric modelling and drag calculation

Vlad Constantinescu, Octav Marghitu, Ana Caramete, Mihnea Popescu Institute of Space Science, Bucharest, Romania

As part of the P2-SWE-II ongoing ESA project, the team from the Institute of Space Science, Bucharest, developed a space weather data repository (<a href="http://ssa.spacescience.ro/">http://ssa.spacescience.ro/</a>), which provides nowcasts and forecasts of geomagnetic and solar indices. These products are used as input for atmospheric modelling in order to compute atmospheric drag, which is part of the same project. Our service retrieves data from a number of providers, stores it locally and presents it to the user in a CSV or JSON format or as a plot.

This repository will be included in the ESA Space Situational Awareness website, under Space Surveillance and Tracking (<a href="http://swe.ssa.esa.int/space-surveillance-and-tracking">http://swe.ssa.esa.int/space-surveillance-and-tracking</a>).

The atmospheric density forecast is provided by MetOffice (UK) for the altitude range 120-1500km and is available at <a href="http://sst-atm.spaceweatherservices.com/">http://sst-atm.spaceweatherservices.com/</a>.