

3D visualisation and exploitation of incoherent scatter radar data at CDPP

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CDPP (<http://www.cdpp.eu>), the French database for space plasma physics, offers a set of services for, among other things, data exploitation and orbit visualisation. For data exploitation, the Automated Multi Dataset Analysis (AMDA, <http://amda.cdpp.eu>) is a web-based interface that offers plotting facilities, data mining and cross-database access via web services. AMDA archives and makes available data from most of the magnetospheric and planetary missions, and is now being extended to ionospheric data: EISCAT and low-Earth orbit satellites. Besides, a 3D orbit visualisation tool (3DView, <http://3dview.cdpp.eu>) allows the user, on top of all traditional orbit visualisation capabilities, to plot data along the orbit of a spacecraft. We have recently added an access via webservice to the Open Madrigal database. We shall show through examples how incoherent scatter radar data (EISCAT, AMISR, and future EISCAT 3D) can advantageously be exploited and combined with other data sets, and how their use can be boosted with the tools offered by CDPP. We shall also introduce on-going developments of complementary tools.