

JRA-Task 5. Magnetospheres

Task Description

This task will on one hand develop a specific demonstrator of workflow for data analysis (IAP, Prag), on the other hand design the "Coupled Giant Planet Systems" service, to be later implemented in VA-VESPA (UCL). Additionally, it will enlarge the set of reference data accessible in the 3Dview tool for space mission analysis (GFI Informatique with CNRS).

Task Pages

- Tools
 - [AMDA](#) : Time series analysis tool for Space Physics tool.
 - [3Dview](#) : Tool that offers immediate 3D visualization of spacecraft position and attitude, planetary ephemerides, as well as scientific data representation (observations and models).
 - [PropagationTool](#) : Interactive tool to track solar storms, streams and energetic particles in the heliosphere.
 - [TREPS](#) : Space physics coordinate and time transformation tool.
 - [iPECMAN](#) : Interface for a multi-component spectral analysis of plasma waves.
 - Space Missions
 - [JUNO Ground Radio](#)
 - Plasma Datasets in AMDA
 - MAVEN SWEA, STATIC, SWIA, MAG, SEP, LPW, ephemeris data (public) from NASA/PDS made available in AMDA in 2016
 - Rosetta RPC (MAG, ICA, IES, LAP, MIP) and ROSINA (private) from RPC consortium made available in AMDA in 2015
 - Rosetta MAG, ephemeris (public) from ESA/PSA, made available in AMDA in March 2017
 - Juno when released by NASA/PDS (end of March 2017)
 - EPNcore extensions
 - [Proposed extension for APIS interoperability](#)
 - [Task Meetings](#)
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Useful Links

- [AMDA](#), Automated Multi Dataset Analysis tool, developed by [CDPF](#)
- [3DView](#), 3D visualisation tool of solar system objects, spacecraft trajectories and associated data, developed by [CDPF](#)
- Coupled Giant Planet Magnetospheres