

Solar System Interest Group

IVOA May 2019 - Opening
Baptiste Cecconi





Topics for SSIG

- Standard List Coordinate Systems and Reference Frames. Link with [NASA/NAIF SPICE](#) system for possible implementation in [STC](#).
- Standardization of planetary observation geometry (linked with the OGC/GIS community), covers semantics, data model and implementation
- Consolidation of [EPN-TAP](#) (Solar System flavor of [ObsTAP](#), developed by [Europlanet/VESPA](#)). Adjustments of [Table Access Protocol \(TAP\)](#) and [Astronomical Data Query Language \(ADQL\)](#). Future IVOA Standard ?
- Standard List of Ground Observatories and Space Missions.
- Work with Astronomy Data Centers to enhance the distribution of their planetary products (ESO, CADC, HST...)
- Cross-matching of registries (IVOA, [SPASE](#), [NASA/PDS](#)...), at least on Dublin Core.
- Promoting and extending [SAMP](#) (Simple Application Messaging Protocol), adding new message types (e.g., PDS3, PDS4, netCDF, HDF5...)
- Reviewing and extending IVOA Data Models and Semantics to Solar and Planetary Sciences.
- Proposing new serialization examples for IVOA standards with file formats used in solar and planetary sciences (HDF5, netCDF...)
- FITS keyword standardization for Planetary targets (ongoing work within VESPA and USGS)
- VOEvent for “Space Situational Awareness” (SSA) for Earth and planetary events.
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Solar System IG Sessions

- **SSIG-I / plenary / Monday 1400-1530 / Spirit**
 - IPDA and PDS. Steve Joy.
 - VESPA update. Stephane Erard.
 - Planetary data in Aladin. Pierre Fernique.
 - Identification of Solar System objects. Jonathan Normand
 - Low Frequency Radio Astronomy and the VO. Baptiste Cecconi
- **SSIG-II / splinter / Tuesday 0900-1030 / Spirit CD**
 - Lessons learned on assessing/implementing EPN-TAP (inputs from ESAC, CADC, CDS)
 - Datalink in VESPA. Pierre Lesidaner
 - Enhancing APIS interface using TAP. Baptiste Cecconi
 - Solar System Object Image Search tool. Stephen Gwyn
 - Open discussion or AOB ? (you tell me)
- Discussions planed in other IG/WG: Semantics, DAL, TDIG, DM...
(see S. Erard shopping list)