

# Solar System Interest Group

IVOA Nov 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 (CDF, netCDF, HDF5...)
- FITS keyword standardization for Planetary targets (ongoing work within VESPA and USGS)
- VOEvent for “Space Situational Awareness” (SSA) for Earth and planetary events.
- Exoplanetary sciences (using planetary standards for exoplanetary data to enhance comparative analyses)











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# Solar System IG Session

- **SSIG / splinter / Friday 1400-1530 / Salon 3**
  - Bridging VESPA and NASA/PDS. Baptiste Cecconi
  - MASER Project Status. Alan Loh et al
  - Discussion on client features for EPN-TAP. Cyril Chauvin et al
  - Solar System Reference Frames. Baptiste Cecconi, Steve Joy
  - VOEvent for Solar System Alerts. Baptiste Cecconi et al.
- Discussions planned in other IG/WG:
  - Registry:
    - EPN-TAP server discovery;
    - VOEvent server registration
  - TDIG: VOEvent model
  - DAL: datalink content type