

# Solar System Interest Group

IVOA May 2019 - Opening

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# Solar System Interest Group Sessions: May 2019, Paris, France

Plenary			
Monday, May 13, 16:00--17:30, Salle Le Verrier			
Speaker	Title	Materials	Time
Tom Stein	Status of the IPDA		15+3
Chiara Marmo	<a href="#">GeoFITS</a> : proposing a planetary surface extension for FITS metadata		15+3
Stéphane Erard	Europlanet-VESPA		15+3
Eleonora Alei	Exo-MerCat: a merged exoplanet catalog		15+3
Pierre Le Sidaner	A short guide for publishing planetary data in the VO		15+3













Splinter			
Tuesday, May 14, 11:00--12:30, Salle Le Verrier			
Speaker	Title	Materials	Time
Pierre Le Sidaner	Querying NASA/PDS with VESPA/EPNcore keywords		15+5
Véronique Delouille	Sharing Solar data with ESCAPE		15+5
Steve Joy	Planetary Reference Frame nomenclature (status)		15+5
Stéphane Erard	Using Datalink and nice to have functions		15+5
	Discussion		10

# Roadmap and plans

- Observation Facility Nomenclature  
(with Semantics)
- Standard Reference Frames  
(with IPDA and Semantics)
- EPNcore  
(ongoing see SSIG-I plenary)



# Topics for SSIIG

- DM / Semantics**  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
- DM / DAL**  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 ?
- Semantics**  Standard List of Ground Observatories and Space Missions.
-  Work with Astronomy Data Centers to enhance the distribution of their planetary products (ESO, CADC, HST...)
- Registry**  Cross-matching of registries (IVOA, [SPASE](#), [NASA/PDS](#)...), at least on Dublin Core.
- Apps**  Promoting and extending [SAMP](#) (Simple Application Messaging Protocol), adding new message types (e.g., PDS3, PDS4, netCDF, HDF5...)
- DM / Semantics**  Reviewing and extending IVOA Data Models and Semantics to Solar and Planetary Sciences.
- DAL / Apps**  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)
- TDIG**  VOEvent for “Space Situational Awareness” (SSA) for Earth and planetary events.
-  Exoplanetary sciences (using planetary standards for exoplanetary data to enhance comparative analyses)