Solar System Interest Group Southern Spring Interop 2017 Santiago, Chile

B. Cecconi (chair)
S. Joy (co-chair, waiting for confirmation...)

Ongoing actions

- Semantics:
 - UCD for solar and planetary sciences
 - Observation facilities
- Time Domain:
 - Study of VOEvent-2.1
- Registry:
 - strong issue with security rules at RoR
- Discussions:
 - TAP/ADQL polygons
 - STC-2 implementation

Solar and Planetary interoperability

- Sessions in conferences:
 - EPSC (50 attendees + posters), AGU (upcoming, dec 2017)
- Special issues:
 - Planetary and Space Sciences: in press, 14 papers
 - Earth and Space Science + Journal Geophysical Research: after VESPA-GIS workshop and LPSC workshop
 - Space Weather: planned paper on VOEvent applied to solar and planetary events/prediction
- Workshops:
 - PSIDA (Planetary Science Informatics and Data Analytics), Big Sky, Montana, April 2018.
 - VESPA implementation workshop, Prague, Czech Rep, April 2018.

Highlight: Space physics remote sensing

EPN-TAP service under development for planetary and solar observations:

- → IAS/MEDOC (15 solar databases, with more than 15 million images)
- ◆ ObsParis/BASS2000 (daily quicklooks for all wavelengths)
- ◆ ObsParis/HELIO (solar feature catalog, update in progress)
- Nançay/NDA (daily Sun and Jupiter decametric spectrograms, starting 1990)
- ◆ ESAC/Solar Orbiter archive: TAP service under development + FITS and CDF files.
- → JAXA/HISAKI TAP service online (including EPNcore)

Highlight: Space physics remote sensing

Implementation of a data distribution webservice (das2server).

- Solves the network bottleneck for data visualization:
- ◆ server provides data with resolution set by client, also includes a cache system to speed up future queries.
- ◆ Already used in USA for Space Physics (Univ. Iowa, GSFC...). Test implementations in France : ObsParis/LESIA, Nancay/NDA (and other instruments)...
- ◆ Need for a registry to declare/find services/datasets.
- ◆ New SAMP messages to be tested: type= das2stream, with url of end point, dataset name, and optional start/end times.

Work with data centers

- CADC: on going work to implement EPNcore on TAP interface.
 Status?
- MAST: new TAP interface. EPNcore?
- ESAC astronomy mission archives (Hershel, XMM...): study EPNcore on TAP interface.
 On going work for Planetary Science Archive (PSA)
- NASA/JPL: on going assessment to implement EPN-TAP on full legacy archive of Cassini
- CDS: what to do with solar and planetary A&A datasets?
 EPNcore service?

IPDA project

- IPDA steering committee last 1 week ago.
- Co-chair proposed: Steve Joy, from UCLA. Archive and operation of NASA planetary missions. Part of NASA/PDS archive.
- Assessment of EPN-TAP: on going.
 Comparison with PDAP (Planetary Data Access Protocol).
- NASA/PDS dictionary mapping:
 - PDS4-IM (information model) allows mapping between dictionaries. On going work to describe and map EPNcore in PDS4-IM