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 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)

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.

✦ New SAMP messages to be tested: das2stream type, with url of end point, dataset name, and 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