Telescopes/Instruments identification Documentalist use case

Mireille Louys, E. Perret, M.Buga CDS, Strasbourg Observatory ICube Laboratory, Strasbourg University, F





# Survey of usage for Observing Facilities names and description / Emmanuelle Perret @CDS

<u>http://cds.u-</u> <u>strasbg.fr/meetings/Lisa8/public/presentations/wednesday/afternoon/06\_facilities</u> <u>\_uniqueIDs.pdf</u>

Gathering of Telescope lists from several sources Marion Schmitz

Pb of multiple identifiers for the same telescope  $\rightarrow$  sorting , clustering

## Lisa conference June 2017

- LISA VIII , Strasbourg, 6-9 Juin 2017 <u>http://cds.unistra.fr/meetings/Lisa8/</u>
- Main Conference for Librarians in astronomy
- Audience :
  - Agencies
  - Datacenters :NED, CDS, ESO
  - Bibliographic services ADS
  - Journals : Elsevier , AAS, Astronomy and Astrophysics
- Large Interest from documentalists and librarians
  - Standardised Tags for science articles
  - Discussed how to validate the
  - Measure of the publication rate wrt instruments (telbib @eso)
- Présentation/ discussion of possible usage

## What are the needs

- Agreed it is necessary to have a global index
- Define a Unique ID for each Facility
- Represent hierarchical relations
  Instrument/Telescope/Observatory
- Bind the ID to the description record
- Gather them in a repository

## Former plans for a facility repository

- Initiated with Baptiste Cecconi, considering the nomenclature efforts in space science (VESPA prototype)
- A first attempt presented in Sydney ADASS 2015
- Facilities, Telescopes, Space Missions, Instruments
- An XML schema based on an extension of VOResource

## □ Follow up

- A list of interested people set up
- Marion Schmitz @NED provided a list of telescopes and instruments
- 3800 entries , uncomplete records after compiling lists from IAU and AAS codes
- Cross validation to organize and share by different partners

## Existing Descriptions

- The PDS4 Information Model Specification v 1.8
- https://pds.jpl.nasa.gov/datastandards/documents/im/v1/index\_1B00.html
- Offers a rich and handy classification for
- Telescopes
- Space craft
- Instrument
- Assessment of the data model description for a small set (10/20 items)
  - At CDS :Ground based telescopes and their instruments
  - At Paris DataCenter : space science facilities

## Documentalists requirements / E. Perret

- In order to verify the granularity and features needed
- Recorded a list of all telescopes and instruments names encountered while feeding the CDS bibliographics system for Vizier table ingestion
- for APJ and APJS
- During 4 months, on a daily basis
- instruments & telescopes lookuptable

## Various cases to tackle

- Alternate names from one author to another
- Telescopes with no names : size +location only
- Multiple telescopes for a survey
- Multiple instruments
- Instruments change telescope host
- Etc...

#### Next steps

- Analyse the training set
- Write a short used case document expressing documentalist usage
- Contribute to the telescope lists merging
  - Fuzzy logic algorithms : coll. Baptiste Cecconi , Graz University.
    - Meeting in Strasbourg end of November
  - Extract the metadata profile from PDS 4 information system
  - Discuss a prototype db close to Vizier  $\rightarrow$  Gilles Landais