

Summary of Semantics WG

IVOA Interop meeting – Malta

Joint session with Solar System IG 2024/11/16

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Report on UCDFlist v1.6 (S. Derriere)

- UCDFlist 1.6 PEN
- Addresses a number of VEPs
- Final chance to review !
- Should become EN in December.

diff ucd-list_1.5.txt ucd-list_1.6.txt

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> Q | meta.coverage | A coverage (spatial, temporal, spectral, etc) ...
< S | pos.lambert | Lambert projection
> Q | pos.projection | 2D spatial projection
> Q | obs.atmos.humidity | Amount of atmospheric water vapor at observing site during an observation
> Q | obs.atmos.rain | Amount of atmospheric water falling at observing site during an observation
> S | obs.atmos.turbulence | Turbulence at observing site
> P | obs.atmos.turbulence.isoplanatic | Isoplanatic turbulence at observing site
> Q | obs.atmos.water | Amount of atmospheric water at observing site
> S | obs.atmos.wind | Related to atmospheric wind at observing site
> Q | phys.temperature.dew | Dew temperature measured at the telescope site ...
> Q | phys.inspiralSpin | Effective inspiral spin in binary mergers (used in GW ...)
> Q | phys.voltage | Electric potential difference over a distance or measured ...
> Q | stat.falsePositive | Rate of false alarm in detection problems
> Q | stat.falseNegative | Rate of missed or false negative detection
> P | stat.confidenceLevel | Level of confidence for a detection or classification process
< P | stat.stdev | Standard deviation as the square root of the variance
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> Q | stat.stdev | Standard deviation as the square root of the variance
> Q | time.period.pulsation | Period of pulsation or oscillation of a body or a phenomenon
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VEP-UCD-003

New vocabulary !

VEP-UCD-017

VEP-UCD-018

VEP-UCD-019

VEP-UCD-020

VEP-UCD-021

VEP-UCD-022

VEP-UCD-012

VEP-UCD-014

VEP-UCD-013

VEP-UCD-011

VEP-UCD-004

Update on Vocabularies (B. Cecconi)

- Discussion on **URIs** and **versioning** of vocabularies
 - Impact of using of full URIs (including version)
(only UCD lists currently have versions
 - other vocabs have release date)
 - ability to **link** latest vocabulary **with previous ones** (currently hidden)
- Proposal for better management :
 - add possibility to have **vocab source as rdf**,
in addition to the (csv+config)→ [html, rdf, turtle, desise] pipeline

Update on Vocabularies (B. Cecconi)

- Early discussion on **Vocabularies API**
 - search a term
 - get metadata for a term
- IVOA Semantics new mappings (harmless changes)
- New EPNcore vocabularies
 - 3 ready : product-type, spatial-frame-type, target-class
 - 1 in prep. : small-body-dynamical-class

Update on Vocabularies (B. Cecconi)

- Proposal for a UCD vocabulary
- RefFrame vocabulary
 - with inputs from helio and planetary sciences
- ObsFacility vocabulary
 - almost there !
 - Discussion with NED: please contact us [from DCP]
- Projection vocabulary (new !)
 - from OGC and FITS WCS
- Processing-level vocabulary (new !)
- Tracking-type vocabulary (radioExt and ObsLocTAP) (new !)
[from RadiolG]

OPAL (B. Cecconi)

- Ontology Portal for Astronomy Linked-data
 - Funded by an OSCARS cascading grant.
 - Based on ontoportal.org
 - Starting: January 1st 2025, for 2 years
 - Join the OPAL Advisory and User Group
 - opal.contact@obspm.fr