Unified Content Descriptor (UCD) Status

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IVOA

from UCD 1.5 to UCD 1.6

- Proposals have been collected and discussed in the Semantics working group and listed on the UCD request for modification page : UCDList_1-6_RFM

- Main topics various requests and proposals
  - From UCDList_1-5_RFM: coverage, oscillation/pulsation, phys.pulseheight, phys.adu, etc…
  - From A. Micol, ESO archive, describing the *ambient parameters* at the telescope (for instance ESO VLT telescope).
  - From Pierre Chanial , APC Paris, *gravitational waves features* for LIGO/Virgo data sets
  - From J. Berthier, IMCCE, *measurements* for Solar System Objects

  - Each term is then described in its context and in a VEP-UCD document available at VEP-UCD Gitlab which holds all the terms discussed in the Request For Modification process.
  - Discussed in the Semantics group and UCD Board.

UCDList 1.6 proposals

Proposed	VEP-UCD	validated	UCD board votes
time.period.oscillation	VEP-UCD-004.txt	time.period.pulsation	5
pos.moc	VEP-UCD-003.txt	meta.coverage	5
stat.confidence.level	VEP-UCD-011.txt	stat.confidenceLevel	5
stat.falsePositive	VEP-UCD-013.txt	stat.falsePositive	5
stat.falseNegative	VEP-UCD-013.txt	stat.falseNegative	5
phys.inspiralSpin	VEP-UCD-012.txt	phys.inspiralSpin	5
phys.adu	VEP-UCD-014.txt	phys.voltage	5
phys.pulseheight	VEP-UCD-015.txt	phys.voltage	5
stat.histogram	VEP-UCD-005.txt	to be discussed again	

- *7 UCD (in blue)* are ready for inclusion

Solar System Objects proposals

- Request for changes and additions by Jerome Berthier et al. at IMCCE (2023)
- see list at ucd_RFM_SolarSystem_JB
- Check proposal and discussion at : VEP-UCD-016.txt
- 10 terms *phys.obliquity, phys.thermalInertia, src.orbital.*, pos.barycenter, pos.heliocentric, …*

- need for clarification in the definitions —> simplify UCD tree
- use cases examples
- revision in progress

Ambient parameters

- List of metadata to be tagged by new UCDs by A. Micol [AmbientParametersAtTelescopeSite]

- A new subtree under branch : **obs.atmos**

obs

_.airMass **Q** *Airmass*

_.atmos **S** *Atmosphere, atmospheric phenomena affecting an observation*

_.extinction **Q** *Atmospheric extinction*

_.refractAngle **Q** *Atmospheric refraction angle*

Existing terms

+.humidity **Q** Related to the amount of air humidity at observing site during an observation

+.rain **Q** Related to the amount of rain at observing site during an observation

+.turbulence **S** Related to the atmospheric turbulence during an observation at observing site

+.isoplanatic **P** Isoplanatic angle characterizing turbulence during an observation at observing site **???**

could simply be instead: *pos.angDistance;obs.atmos.turbulence*

+.water **Q** Related to the amount of atmospheric water at observing site during an observation

+.wind **Q** Related to the amount of wind at observing site during an observation

New terms

Ambient parameters in VEP

- New VEPs uploaded on VEP-UCD repository
  - VEP-UCD-017_obs_atmos_rain.txt
  - VEP-UCD-018_obs_atmos_turbulence.txt
  - VEP-UCD-019_obs_atmos_water.txt
  - VEP-UCD-020_obs_atmos_wind.txt
  - VEP-UCD-021_obs_atmos_humidity.txt
  - VEP-UCD-022_phys.temp.dew.txt

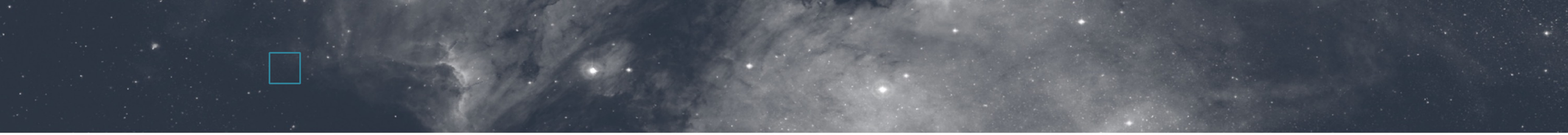
- Discussion and validation on going with A. Micol at ESO.

UCD update feedback

- Validation of proposals received from the UCD Scientific Board beginning of May
  5 feedbacks from 10 members :
  - how can we get more interest from the various disciplines?
  - target some specialists in one particular theme? e.g. gravitational waves, radio, solar physics, etc.

- Tools for UCDs
  - testing tool : CDS UCD Builder
  - assigning tool: under development at CDS : in progress

    https://cds.unistra.fr/ucd-finder/beta/



Thanks for your attention

Comments ? Questions ?