

Obscore and T	Definition TD	Utype	ucd	rec. units	Mandatory	default
extension keywords			datamodelpath			/optional
% position on sky						
s_ra	Position (within a certain area)	Char.SpatialAxis.Coverage.RefVal.	pos.eq.ra	deg	man	ICRS
s_dec	Position (within a certain area)	Char.SpatialAxis.Coverage.RefVal.	pos.eq.dec	deg	man	
s_resolution	Angular resolution interval	Char.SpatialAxis.Resolution.RefVal	pos.AngResol	arcsec	man	
%target						
target_name	Name of Target	Target.name	meta.id/src	null	opt	
%Observable						
% nb of observables per point						
o_xel	Nb of observables per time point	TSNDpoint.nbMeas	meta.number	null	man	1
%Observable types						
%Type of data: one value among (Events, photometry, radial velocities, spectra, images, polarisation, other)						
o_type	List of types of the Observable quantities	Char.ObservableAxis.observableTypeList ??	meta.class	null	opt	scalar
%One value in (scalar, image, spectrum, cube,...) as dataproduc_type in the Obscore vocabulary.						
% Physical nature of observable						
o_ucd	Physical nature attached to observable	Char.ObservableAxis.ucd	meta.class	null	man	obscore
%Limits along observable axis						
% ex: Magnitudes / Fluxes/ counts, etc interval (min)						
o_min	Minimum value for Observable	Char.ObservableAxis.Coverage.BoundsLimits.LoLim	S(o_ucd);stat.min	o_units'	opt	obscore ext
o_max	Maximum value for Observable (ex. Mag max)	Char.ObservableAxis.Coverage.BoundsLimits.HiLim	S(o_ucd);stat.max	o_units'	opt	obscore ext / important pour la découverte
o_unit	Unit of the dependent observable	Char.ObservableAxis.unit	meta.unit	null	opt	Obscore
o_complextype	specifies if complex data are compiled value or observed with the first instruments in (false,true)	Char.ObservableAxis.status?		null	opt	too sophisticated for now / given up
% sensitivity , max detection limit. TBC						
%o_upperlimit	upperlimit is a limiting value for the estimated faintest object in the observation (LSST, ZTF)					these tags are in columns added to the data instead. . not appropriate as metadata
o_upperlimit	flag in the data indicating that some values are upperlimits and not detections measurements. not queryable	Char.ObservableAxis.Coverage.Sensitivity.Quality???	meta.code.qual	null	opt	no
		?	phot.flux;stat.max	flux units	opt	if yes it means some values are upperlimits
% spectral coverage						
em_min	spectral interval (min)	Char.SpectralAxis.Coverage.Bounds.Limits.LoLim	em.interval.stat.min	'em_unit'	man	nm
em_max	spectral interval	Char.SpectralAxis.Coverage.Bounds.Limits.HiLim	em.interval.stat.max	'em_unit'	man	nm
% Must be qualified by a ucd 'em.freq' if spectral axis is in Frequency						
em_ucd	Wavelength/ Frequency/ Energy	Char.SpectralAxis.ucd	meta.ucd	null	opt	obscore :query in meters
em_unit	Unit along the spectral axis	Char.SpectralAxis.unit	meta.unit	null	opt	if mentioned then it means em_min and max are given in these units
%Polarisation states						not applicable here
pol_states	Polarization state list	Char.Polarization.List	meta.class	null	opt	
%time features						
t_min	Time start of the sequence(min)	Char.TimeAxis.Coverage.Bounds.Limits.LoLim	time.start.obs.sequence	s	man	in recommended TimeCoordsys
t_max	Time end of the sequence	Char.TimeAxis.Coverage.Bounds.Limits.HiLim	time.end.obs.sequence	s	man	obscore
% NB: the time span , or elapsed time for the sequence is then t_max-t_min						
t_exposure	Exposure time (sum of multiple exposures)	Char.TimeAxis.Support.Extent	time.duration.obs.exposure	s	man	obscore ext
t_exp_min	Exposure time of samples (min)	Char.TimeAxis.Sampling.Extent.LoLim	time.duration.obs.exposure.stat.min	s	man	obscore ext
t_exp_max	Exposure time of samples (max)	Char.TimeAxis.Sampling.Extent.HiLim	time.duration.obs.exposure.stat.max	s	man	obscore ext table
%time space between 2 time samples / cadence						
t_sampling_step_min	minimal length of time interval between 2 observations / cadence (min)	Char.TimeAxis.Sampling.Period.LoLim	time.interval.obs.sequence.stat.min	s	opt	obscore ext table
t_sampling_step_max	maximal length of time interval between 2 observations / cadence (min)	Char.TimeAxis.Sampling.Period.HiLim	time.interval.obs.sequence.stat.max	s	opt	obscore ext table
%NB : the UCD time.period is rather dedicated to a physical event. Not appropriate here						
%nb of sample along the time axis						
t_xel	nb of time stamps in the series	Char.TimeAxis.numBins	meta.number	null	man	
%Time CoosSystem						imposed for discovery
t_origin	Time frame origin	stc:TimeFrame.timeOrigin	time.epoch	?	opt	description to be in each dataset
t_scale	Time frame scale	stc:TimeFrame.timeScale	time.scale	?	opt	obscore ext table
t_refPosition	Time reference position (barycenter, heliocenter, ...)	stc:TimeFrame.refPosition	?	?	opt	
t_refDirection	Time reference direction (for solar observations)	stc:TimeFrame.refDirection	?	?	opt	
%Time representation ISOtime , MID, JD , Time offset a la STC ?						
t_format	Time representation	?	?	null	man	MJD?

exemple HST/ WPC2 cf François : ds ce cas on a deux résolutions spatiales

pas necessaire si on code une ligen de données par observable et qu'on relie au même dataset.

pour préciser si l'observable est structuré en dataproduit. Ds ce cas définir une règle pour interpréter o_ucd

obscore

obscore ext / important pour la découverte

too sophisticated for now / given up

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not applicable here

in recommended TimeCoordsys

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obscore ext

obscore ext

obscore ext table

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obscore ext table

can be proposed in various formats in the query response

description to be in each dataset

obscore ext table