

Mandatory items for the Observation data model. M.Louys - November 2nd, 2009

MANDATORY items in the Obs Core Components Model				
Local short name	Utype	Units	Type	Description
dataprodukt_type	obs:Observation.ProductType		enum	see proposal [1] below
target_name	obs:Target.name		string	
s_ra	obs:Char/SpatialAxis.Coverage.Location.coord.Position2D.Value2.C1	[deg]	float	central Spatial Position in ICRS
s_dec	obs:Char/SpatialAxis.Coverage.Location.coord.Position2D.Value2.C2	[deg]	float	
s_resolution	obs:Char/SpatialAxis.Resolution.RefVal	[arcsec]	float	Spatial resolution of data
s_area	obs:Char/SpatialAxis.Coverage.Support..Extent	[deg**2]	float	Aperture angular area 's size
t_start	obs:Char/TimeAxis.Coverage.Bounds.Limits.TimeInterval.StartTime	[ISO8601?, MJD?]		Start time
t_stop	obs:Char/TimeAxis.Coverage.Bounds.Limits.TimeInterval.StopTime	[ISO8601?, MJD?]		Stop time
t_span	obs:Char/TimeAxis.Coverage.Bounds.Extent	day	float	Total observation time
t_exptime	obs:Char/TimeAxis.Coverage.Support.Extent	[s]	float	Total exposure time
t_resolution	obs:Char/TimeAxis.Resolution.refVal	[s]	float	Temporal resolution FWHM
w_min	obs:Char/SpectralAxis.Coverage.Bounds.limits.Interval.LoLim	[nm]	float	start in spectral coordinates
w_max	obs:Char/SpectralAxis.Coverage.Bounds.limits.Interval.HiLim	[nm]	float	stop in spectral coordinates
w_res_power	obs:Char/SpectralAxis.Resolution.ResolPower		unitless	Value of the resolution Power along the SpectralAxis
o_cal_status	obs:Char/FluxAxis.calibStatus		enum string	observable calibration status
instrument	obs:Provenance/ObsConfig.instrument.name		string	in uppercase
w_domain	obs:Observation.waveband		enum string	vr:waveband [2] RADIO MILLIMETER INFRARED OPTICAL UV EUV X-RAY GAMMA-RAY

[1] dataProductType

IMAGING	SOURCE_LIST	SPECTRUM 1D	INTERFEROMETRIC_IMAGING	SPECTRO_IMAGING (s, w sampled)
MULTIBAND_IMAGING	SED	SPECTRUM 2D	INTERFEROMETRIC_CUBE	SPECTRO_POLARIMETRIC_IMAGING
POLARIMETRIC_IMAGING	EVENT_LIST	SPECTRO_POLARIMETRY		SPECTRO_INTERFEROMETRIC_IMAGING ???
IMAGING_TimeList				SPECTRO_IMAGING_TimeList

(s, w, t sampled)

[2] defined in VODataService