

**Observation Data model Summary.** The core components are essentially the mandatory keys in the green cells of the table.

Local short name	Utype	Units	Type	Description	Status
<b>OBSERVATION</b>					
<b>dataproduuct_type</b>	Observation.DataProductType	unitless	enum	Observation's type of product	M
<b>calib_level</b>	Observation.calibLevel	unitless	enum integer	Calibration level of the observation: in {0, 1, 2, 3}	M
<b>target_name</b>	Observation.Target.name	unitless	string	Object of interest	M
<b>target_class</b>	Observation.Target.Class	unitless	string	Class of the Target object as in SSA	O
<b>DATAID</b>					O
<b>obs_id</b>	Observation.DataID.collectionDID	unitless	string	internal ID given by the obs/tap service	M
<b>obs_collection</b>	Observation.DataID.Collection	unitless	string	Name of the data collection	M
<b>creation_date</b>	Observation.DataID.Date	unitless	date	Date when the data set was created	O
<b>obs_creator_name</b>	Observation.DataID.Creator	unitless	string	Name of the creator of the data	O
<b>obs_creator_did</b>	Observation.DataID.CreatorDID	unitless	string	Ivoa ID given by the creator	M
<b>CURATION</b>					
<b>obs_publisher_did</b>	Observation.Curation.PublisherDID	unitless	string	Data set ID given by the publisher.	M
<b>publisher_id</b>	Observation.Curation.PublisherID	unitless	string	ivoaID for the Publisher	O
<b>bib_reference</b>	Observation.Curation.Reference	unitless	string	Service bibliographic reference	O
<b>data_rights</b>	Observation.Curation.Rights	unitless	enum	Public/Reserved/Proprietary/	O
<b>ACCESS</b>					
<b>access_url</b>	Observation.Access.Reference	unitless	uri string	URL used to access dataset	M
<b>access_format</b>	Observation.Access.Format	unitless	string	format of the dataset: in {VOTable, FITS, FITS-EXT, Directory, etc..}	M
<b>access_estsize</b>	Observation.Access.Size	Kbytes	integer	Estimated Size of dataset: in Kilo Bytes	M
<b>CHARACTERISATION</b>					
<b>nb_members</b>	Characterisation.numseg	unitless	integer	Nb of obs. elements in a complex observation obtained by association, etc	O
<b>space</b>					
<b>s_ra</b>	Characterisation.SpatialAxis.Coverage.Location.coord.Position2D.Value2.C1	deg	double	Central Spatial Position in ICRS	M
<b>s_dec</b>	Characterisation.SpatialAxis.Coverage.Location.coord.Position2D.Value2.C2	deg	double		M
<b>s_fov</b>	Characterisation.SpatialAxis.Coverage.Bounds.Extent	deg	double	Estimated size of the covered region	M
<b>s_region</b>	Characterisation.SpatialAxis.Coverage.Support.Area		stc:AstroCoordArea	Region covered in STC or ADQL	M
<b>s_resolution</b>	Characterisation.SpatialAxis.Resolution.refVal.Cresolution	arcsec	float	Spatial resolution of data as FWHM	M

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s_ucd	Characterisation.SpatialAxis.ucd	unitless	ucd string	(pos or u,v data)	O
s_resolution_bound_min	Characterisation.Spatial.Resolution.bounds.Limits.Interval.LoLim	arcsec	double	Resolution min value on spectral axis (FWHM of PSF)	O
s_resolution_bound_max	Characterisation.Spatial.Resolution.bounds.Limits.Interval.LoLim	arcsec	double	Resolution max value on spectral axis	O
astrometric_cal_status	Characterisation.SpatialAxis.calibStatus	unitless	enum	NOT CALIBRATED, FINE, COARSE	O
astrom_precision_stat	Characterisation.SpatialAxis.Accuracy.StatError.refval.value	arcsec	double	Astrometric precision along the spatial axis	O
s_pixel_scale	Characterisation.SpatialAxis.Sampling.refVal.period	arcsec	double	Pixel spacing in spatial units	O
time					
t_min	Characterisation.TimeAxis.Coverage.Bounds.Limits.Interval.StartTime	day	double	Start time in MJD	M
t_max	Characterisation.TimeAxis.Coverage.Bounds.Limits.Interval.StopTime	day	double	Stop time in MJD	M
t_exptime	Characterisation.TimeAxis.Coverage.Support.Extent	s	float	Total exposure time	M
t_resolution	Characterisation.TimeAxis.Resolution.refVal	s	float	Temporal resolution FWHM	M
t_span	Characterisation.TimeAxis.Coverage.Bounds.Extent	day	float	Total observation elapsed time	O
t_cal_status	Characterisation.TimeAxis.calibStatus	unitless	enum	Type of coord calibration	O
t_staterr	Characterisation.TimeAxis.Accuracy.StatError.refval.value	s	double	Time coord statistical error	O
spectral					
em_min	Characterisation.SpectralAxis.Coverage.Bounds.limits.Interval.LoLim	m	double	start in spectral coordinates	M
em_max	Characterisation.SpectralAxis.Coverage.Bounds.limits.Interval.HiLim	m	double	stop in spectral coordinates	M
em_res_power	Characterisation.SpectralAxis.Resolution.ResolPower.refval	unitless	double	Value of the resolution power along the SpectralAxis.	M
em_resPower_min	Characterisation.Spectral.Resolution.ResolPower.LoLim	unitless	double	Resolution power min value on spectral axis	O
em_resPower_max	Characterisation.Spectral.Resolution.ResolPower.HiLim	unitless	double	Resolution power max value on spectral axis	O
em_resol	Characterisation.SpectralAxis.Resolution.refVal.value	m	double	Value of Resolution along the SpectralAxis	O
em_stat_err	Characterisation.SpectralAxis.Accuracy.StatError.refval.value	m	double	Spectral coord statistical error	O

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<b>observable</b>					O
<b>o_uct</b>	Characterisation.ObservableAxis.uct	unitless	string	Nature of the observable axis; necessary for polarisation data or any kind of flux. Values in { <b>phot.flux</b> , <b>phot.flux.density</b> , <b>phot.count</b> , <b>phot.mag</b> ,...}	M
<b>o_units</b>	Characterisation.ObservableAxis.units	unitless	enum	Units used for the observable values	O
<b>o_cal_status</b>	Characterisation.ObservableAxis.calibStatus	unitless	enum	Level of calibration for the observable coord	O
<b>o_detection_limit</b>	Characterisation.ObservableAxis.Resolution.refval	?	double	Minimal detectable value along the observable / sensitivity	O
<b>o_stat_err</b>	Characterisation.ObservableAxis.Accuracy.StatError.refval.value		double	Statistical error on the Observable axis	O
<b>PROVENANCE</b>					O
<b>PI_name</b>	Provenance.PI.name	unitless	string	Name of Principal Investigator	O
<b>filter_band</b>	Provenance.ObsConfig.Filter.bandName	unitless	string	For instance : U, B u, g i, k	O
<b>filter_name</b>	Provenance.ObsConfig.Filter.name	unitless	string	Filter name as stated into the archive: e.g. FW66	O
<b>camera_name</b>	Provenance.ObsConfig.camera.name	unitless	string	Name of camera	O
<b>optical_element_name</b>	Provenance.ObsConfig.opticalElem.name	unitless	string	Name of optical element	O
<b>telescope_name</b>	Provenance.ObsConfig.telescope.name	unitless	string	Name of telescope	O
<b>instrument</b>	Provenance.ObsConfig.instrument.name	unitless	string	Name of the instrument used	O