Light-curve Metadata

Light Curves in Tables

The keywords listed below are required, recommended, or suggested for all FITS files that contain light curves. Since at present light curves are only supported in tabular format, all keywords must appear in the extension (E) header. Recommended keywords, if absent, will be computed and inserted prior to ingest; suggested keywords would be beneficial to archival users if present.

The following table(s) of HLSP metadata, to be included in science products, are color-coded:

	Required
	Recommended
	Suggested

Headers must also include the basic structural FITS keywords and the list of common keywords.

	Keyword	HDU	Notes
	APERTURE	E	Name of the aperture used for the exposure (if any)
	DEC_TARG	E	Declination coordinate of the target or field, in deg
	DETECTOR	E	ID of detector used for exposure
	FILTER	E	Name of filter used, or 'MULTI' if more than one defined the passband.
	FILTER*nn*	E	Name(s) of filter(s) used to define the passband if more than one was used, with *nn* (zero-padded) incrementing from 1.
	RADESYS	E	Mnemonic for celestial coordinate reference system (typically 'FK5' or the preferred 'ICRS').
	RA_TARG	E	Right Ascension coordinate of the target or field, in deg

Light Curves in ASCII Files

Light curves may alternatively be stored in ASCII-based formats (JWST uses ECSV). In this case it is important to include metadata as tagged attributes within the file, the details of which depend upon the specific format. Attributes in ECSV uses a YAML-based header with special mark-up, for example.