

# PS1 Database object and detection tables

This page describes the contents of the PanSTARRS-1 database object and detection tables. These tables have information such as positions, magnitudes, and morphological descriptions for the objects in the PS1 catalogs. They also include time-dependent measurements of those parameters. Tables with multi-epoch measurements are not included in the DR1 data release and are listed separately.

These descriptions are extracted from the PPS Schema Browser interface created by the University of Hawaii. For a high-level overview of the tables, see the [PS1 Source extraction and catalogs](#) documentation page.

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The starting point for the PS1 data archive is at [Pan-STARRS1 data archive home page](#).

## Tables included in DR1

### ObjectThin

**Description:** Contains the positional information for objects in a number of coordinate systems. The objects associate single epoch detections and the stacked detections within a one arcsecond radius. The mean position from the single epoch data is used as the basis for coordinates when available, or the position of an object in the stack when it is not. The right ascension and declination for both the stack and single epoch mean is provided. The number of detections in each filter from single epoch data is listed, along with which filters the object has a stack detection. References: Szalay, A. S., Gray, J., Fekete, G., et al. 2007, arXiv:cs/0701164.

**Note that as of June 2022 the raMean and decMean positions have been updated using Gaia EDR3 and new columns have been added with proper motions for a subset of objects. See the [PS1 Astrometry Correction Using Gaia EDR3](#) for more information.**

Name	Unit	Data Type	Size	Default Value	Description
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<b>objName</b>	dimensionless	VARCHAR(32)	32	NA	IAU name for this object.
<b>objPSOName</b>	dimensionless	VARCHAR(32)	32	NA	Alternate Pan-STARRS name for this object.
<b>objAltName1</b>	dimensionless	VARCHAR(32)	32	NA	Alternate name for this object.
<b>objAltName2</b>	dimensionless	VARCHAR(32)	32		Alternate name for this object.
<b>objAltName3</b>	dimensionless	VARCHAR(32)	32		Alternate name for this object.
<b>objPopularName</b>	dimensionless	VARCHAR(140)	140		Well known name for this object.
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPsOBid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>htmlID</b>	dimensionless	BIGINT	8	NA	Hierarchical triangular mesh (Szalay 2007) index.
<b>zoneID</b>	dimensionless	INT	4	NA	Local zone index, found by dividing the sky into bands of declination 1/2 arcminute in height: zoneID = floor((90 + declination)/0.00833333).
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
<b>projectionID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	TINYINT	1	255	Skycell region identifier.
<b>randomID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>batchID</b>	dimensionless	BIGINT	8	NA	Internal database batch identifier.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.
<b>objInfoFlag</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in ObjectInfoFlags and <a href="#">here</a>
<b>astrometryCorrectionFlag</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the astrometry correction. Values listed in AstrometryCorrectionFlags and <a href="#">here</a>
<b>qualityFlag</b>	dimensionless	TINYINT	1	0	Subset of objInfoFlag denoting whether this object is real or a likely false positive. Values listed in ObjectQualityFlags and <a href="#">here</a>
<b>raStack</b>	degrees	FLOAT	8	-999	Right ascension from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
<b>decStack</b>	degrees	FLOAT	8	-999	Declination from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
<b>raStackErr</b>	arcsec	REAL	4	-999	Right ascension standard deviation from stack detections.
<b>decStackErr</b>	arcsec	REAL	4	-999	Declination standard deviation from stack detections.
<b>raMean</b>	degrees	FLOAT	8	-999	Right ascension from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
<b>decMean</b>	degrees	FLOAT	8	-999	Declination from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.

<b>raMeanErr</b>	arcsec	REAL	4	-999	Right ascension standard deviation from single epoch detections.
<b>decMeanErr</b>	arcsec	REAL	4	-999	Declination standard deviation from single epoch detections.
<b>pmra</b>	milliarcsec econds per year	FLOAT	8	NULL	Proper motion in right ascension direction from single epoch detections.
<b>pmdec</b>	milliarcsec econds per year	FLOAT	8	NULL	Proper motion in right ascension direction from single epoch detections.
<b>pmraErr</b>	milliarcsec econds per year	FLOAT	8	NULL	RA proper motion standard deviation.
<b>pmdecErr</b>	milliarcsec econds per year	FLOAT	8	NULL	Dec proper motion standard deviation.
<b>epochMean</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch corresponding to raMean, decMean and pmra, pmdec (equinox J2000). This is a weighted mean of the PS1 observation epochs.
<b>posMeanChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of mean position.
<b>cx</b>	dimensionless	FLOAT	8	NA	Cartesian x on a unit sphere.
<b>cy</b>	dimensionless	FLOAT	8	NA	Cartesian y on a unit sphere.
<b>cz</b>	dimensionless	FLOAT	8	NA	Cartesian z on a unit sphere.
<b>lambda</b>	degrees	FLOAT	8	-999	Ecliptic longitude.
<b>beta</b>	degrees	FLOAT	8	-999	Ecliptic latitude.
<b>l</b>	degrees	FLOAT	8	-999	Galactic longitude.
<b>b</b>	degrees	FLOAT	8	-999	Galactic latitude.
<b>nStackObjectRows</b>	dimensionless	SMALLINT	2	-999	Number of independent StackObjectThin rows associated with this object.
<b>nStackDetections</b>	dimensionless	SMALLINT	2	-999	Number of stack detections.
<b>nDetections</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in all filters.
<b>ng</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in g filter.
<b>nr</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in r filter.
<b>ni</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in i filter.
<b>nz</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in z filter.
<b>ny</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in y filter.

## MeanObject

**Description:** Contains the mean photometric information for objects based on the single epoch data, calculated as described in Magnier et al (2013). To be included in this table, an object must be bright enough to have been detected at least once in an individual exposure. PSF, Kron (1980), and aperture magnitudes and statistics are listed for all filters. References: Kron, R. G. 1980, ApJS, 43, 305; Magnier, E. A., Schlafly, E., Finkbeiner, D., et al. 2013, ApJS, 205, 20.

Name	Unit	Data Type	Size	Default Value	Description
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<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPsOBid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
<b>gQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from g filter detections.
<b>gMeanPSF Mag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from g filter detections.
<b>gMeanPSF MagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from g filter detections.
<b>gMeanPSF MagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from g filter detections.
<b>gMeanPSF MagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from g filter detections.
<b>gMeanPSF MagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from g filter detections.
<b>gMeanPSF MagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from g filter detections.
<b>gMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from g filter detections.
<b>gMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from g filter detections.
<b>gMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from g filter detections.
<b>gMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from g filter detections.
<b>gMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from g filter detections.
<b>gMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from g filter detections.
<b>gMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from g filter detections.
<b>gMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from g filter detections.
<b>gFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from g filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>rQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from r filter detections.
<b>rMeanPSF Mag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from r filter detections.
<b>rMeanPSF MagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from r filter detections.
<b>rMeanPSF MagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from r filter detections.
<b>rMeanPSF MagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from r filter detections.
<b>rMeanPSF MagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from r filter detections.
<b>rMeanPSF MagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from r filter detections.

<b>rMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from r filter detections.
<b>rMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from r filter detections.
<b>rMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from r filter detections.
<b>rMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from r filter detections.
<b>rMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from r filter detections.
<b>rMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from r filter detections.
<b>rMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from r filter detections.
<b>rMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from r filter detections.
<b>rFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from r filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>iQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from i filter detections.
<b>iMeanPSFMag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from i filter detections.
<b>iMeanPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from i filter detections.
<b>iMeanPSFMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from i filter detections.
<b>iMeanPSFMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from i filter detections.
<b>iMeanPSFMagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from i filter detections.
<b>iMeanPSFMagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from i filter detections.
<b>iMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from i filter detections.
<b>iMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from i filter detections.
<b>iMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from i filter detections.
<b>iMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from i filter detections.
<b>iMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from i filter detections.
<b>iMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from i filter detections.
<b>iMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from i filter detections.
<b>iMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from i filter detections.

<b>iFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from i filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>zQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from z filter detections.
<b>zMeanPSF Mag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from z filter detections.
<b>zMeanPSF MagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from z filter detections.
<b>zMeanPSF MagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from z filter detections.
<b>zMeanPSF MagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from z filter detections.
<b>zMeanPSF MagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from z filter detections.
<b>zMeanPSF MagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from z filter detections.
<b>zMeanKron Mag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from z filter detections.
<b>zMeanKron MagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from z filter detections.
<b>zMeanKron MagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from z filter detections.
<b>zMeanKron MagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from z filter detections.
<b>zMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from z filter detections.
<b>zMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from z filter detections.
<b>zMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from z filter detections.
<b>zMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from z filter detections.
<b>zFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from z filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>yQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from y filter detections.
<b>yMeanPSF Mag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from y filter detections.
<b>yMeanPSF MagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from y filter detections.
<b>yMeanPSF MagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from y filter detections.
<b>yMeanPSF MagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from y filter detections.
<b>yMeanPSF MagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from y filter detections.
<b>yMeanPSF MagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from y filter detections.

<b>yMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from y filter detections.
<b>yMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from y filter detections.
<b>yMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from y filter detections.
<b>yMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from y filter detections.
<b>yMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from y filter detections.
<b>yMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from y filter detections.
<b>yMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from y filter detections.
<b>yMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from y filter detections.
<b>yFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from y filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .

## AstrometryCorrection

**Description:** Contains metadata for objects that have had their astrometry corrected using Gaia EDR3. This table contains the original values from the ObjectThin table that have been updated, the replacement values that are in ObjectThin (highlighted in the comments), as well as additional information on the new astrometry. See [PS1 Astrometry Correction Using Gaia EDR3](#) for details.

Most users will simply use the updated values in ObjectThin; the values in this table may be useful for ongoing research projects that rely on details of the original PS1 DR2 positions.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier used to join to ObjectThin.
<b>mdra</b>	degrees	FLOAT	8	NA	Initial Right ascension position (J2000) determined from weighted mean of Detection positions (before Gaia correction).
<b>mddec</b>	degrees	FLOAT	8	NA	Initial Declination position (J2000) determined from weighted mean of Detection positions (before Gaia correction).
<b>mdmjd</b>	days	FLOAT	8	NA	<b>astrometry corrected replacement for epochMean in ObjectThin:</b> Modified Julian Date (MJD) of the mean epoch corresponding to positions and proper motions. This is the average of mdmjdra and mdmjdec.
<b>mdmjdra</b>	days	FLOAT	8	NA	Weighted mean MJD for measurements that contributed to mdra.
<b>mdmjdec</b>	days	FLOAT	8	NA	Weighted mean MJD for measurements that contributed to mddec.
<b>nmd</b>	dimensionless	INT	4	NA	Number of detection measurements used.
<b>mdraErr</b>	milliarcseconds	FLOAT	8	NA	<b>astrometry corrected replacement for raMeanErr in ObjectThin:</b> Standard deviation in RA from weighted single epoch errors. Value is converted to arcsec in ObjectThin.
<b>mddecErr</b>	milliarcseconds	FLOAT	8	NA	<b>astrometry corrected replacement for raMeanErr in ObjectThin:</b> Standard deviation in Dec from weighted single epoch errors. Value is converted to arcsec in ObjectThin.

<b>mdp<sub>m</sub>ra</b>	milliarc seconds per year	FLOAT	8	NA	Proper motion in RA determined from weighted mean of Detection positions (before Gaia correction).
<b>mdp<sub>m</sub>dec</b>	milliarc seconds per year	FLOAT	8	NA	Proper motion in Dec determined from weighted mean of Detection positions (before Gaia correction).
<b>mdp<sub>m</sub>raErr</b>	milliarc seconds per year	FLOAT	8	NA	<b>new column pmraErr in ObjectThin:</b> Standard deviation in pmra from weighted single epoch errors.
<b>mdp<sub>m</sub>decErr</b>	milliarc seconds per year	FLOAT	8	NA	<b>new column pmdecErr in ObjectThin:</b> Standard deviation in pmdec from weighted single epoch errors.
<b>chisq<sub>ra</sub></b>	dimensionless	FLOAT	8	NA	<b>astrometry corrected replacement for posMeanChisq in ObjectThin = (chisq<sub>ra</sub>+chisq<sub>dec</sub>)/2:</b> Reduced chi-square in RA PM fit
<b>chisq<sub>dec</sub></b>	dimensionless	FLOAT	8	NA	<b>astrometry corrected replacement for posMeanChisq in ObjectThin = (chisq<sub>ra</sub>+chisq<sub>dec</sub>)/2:</b> Reduced chi-square in Dec PM fit
<b>dcr</b>	dimensionless	BIT	1	NA	Differential chromatic refraction correction applied: 1=yes, 0=no
<b>ra</b>	degrees	FLOAT	8	NA	<b>astrometry corrected replacement for raMean in ObjectThin:</b> RA from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean after correction using Gaia EDR3 using the algorithm described in the paper.
<b>dec</b>	degrees	FLOAT	8	NA	<b>astrometry corrected replacement for decMean in ObjectThin:</b> Dec from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean after correction using Gaia EDR3 using the algorithm described in the paper.
<b>pmra</b>	milliarc seconds per year	FLOAT	8	NA	<b>new column pmra in ObjectThin:</b> Proper motion in RA from single epoch detections after correction using Gaia EDR3 using the algorithm described in the paper.
<b>pmdec</b>	milliarc seconds per year	FLOAT	8	NA	<b>new column pmdec in ObjectThin:</b> Proper motion in Dec from single epoch detections after correction using Gaia EDR3 using the algorithm described in the paper.
<b>cx</b>	dimensionless	FLOAT	8	NA	<b>astrometry corrected replacement for cx in ObjectThin:</b> Cartesian x on a unit sphere.
<b>cy</b>	dimensionless	FLOAT	8	NA	<b>astrometry corrected replacement for cy in ObjectThin:</b> Cartesian y on a unit sphere.
<b>cz</b>	dimensionless	FLOAT	8	NA	<b>astrometry corrected replacement for cz in ObjectThin:</b> Cartesian z on a unit sphere.
<b>htmid</b>	dimensionless	BIGINT	8	NA	<b>astrometry corrected replacement for htmID in ObjectThin:</b> Hierarchical triangular mesh (Szalay 2007) index.
<b>Values for columns below are the original values from ObjectThin, copied before the astrometry update was applied.</b>					
<b>NOTE:</b> When querying this table, if these original column values are all NULL it indicates that the object (objid) does not exist in ObjectThin. That applies mainly to objects south of declination -30 degrees.					
<b>raMean</b>	degrees	FLOAT	8	-999	Right ascension from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
<b>decMean</b>	degrees	FLOAT	8	-999	Declination from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
<b>raMeanErr</b>	arcsec	REAL	4	-999	Right ascension standard deviation from single epoch detections.
<b>decMeanErr</b>	arcsec	REAL	4	-999	Declination standard deviation from single epoch detections.



<b>epochMean</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch corresponding to raMean, decMean (equinox J2000). Note that Gaia DR1 data is sometimes included in the mean position (see the <a href="#">FAQ</a> for details); in those cases, the epochMean value is near the Gaia DR1 epoch 2015.5 = MJD 15023. As a result, epochMean is not necessarily near the mean value of the PS1 measurement dates. That is no longer true of the new astrometry-corrected value of epochMean – the new positions do not include any Gaia position or epoch information in the calculations except to calibrate local distortions in the PS1 coordinate system.
<b>posMeanChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of mean position.
<b>cxOrig</b>	dimensionless	FLOAT	8	NA	Cartesian x on a unit sphere.
<b>cyOrig</b>	dimensionless	FLOAT	8	NA	Cartesian y on a unit sphere.
<b>czOrig</b>	dimensionless	FLOAT	8	NA	Cartesian z on a unit sphere.
<b>htmlIDOrig</b>	dimensionless	BIGINT	8	NA	Hierarchical triangular mesh (Szalay 2007) index.

## StackObjectThin

**Description:** Contains the positional and photometric information for point-source photometry of stack detections. The information for all filters are joined into a single row, with metadata indicating if this stack object represents the primary detection. Due to overlaps in the stack tessellations, an object may appear in multiple stack images. The primary detection is the unique detection from the stack image that provides the best coverage with minimal projection stretching. All other detections of the object in that filter are secondary, regardless of their properties. The detection flagged as best is the primary detection if that detection has a psfQf value greater than 0.98; if that is not met, then any of the primary or secondary detections with the highest psfQf value is flagged as best. **References:** Kron, R. G. 1980, ApJS, 43, 305; Magnier et al. 2015, in prep.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
<b>projectionID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	TINYINT	1	255	Skycell region identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection. Note that in the DR1 database, about 0.5% of the objects have more than one entry with primaryDetection=1. This may be fixed in a future modification of the DR2 database. Note also that as primaryDetection is entirely a geometric issue within a skycell, it is possible for an object (particularly if near the detection limit) to be undetected on the primary area within a skycell, but to appear on the overlapping non-primary area in an adjacent skycell. Such objects will not have any measurement which is flagged as a primaryDetection.

<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection. The entries in this column are currently corrupted in the DR2 database and should not be used. We recommend using the primaryDetection flag instead (although it also has shortcomings - see above). This is planned to be fixed in DR2.1.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.
<b>gippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gra</b>	degrees	FLOAT	8	-999	Right ascension from g filter stack detection.
<b>gdec</b>	degrees	FLOAT	8	-999	Declination from g filter stack detection.
<b>graErr</b>	arcsec	REAL	4	-999	Right ascension error from g filter stack detection.
<b>gdecErr</b>	arcsec	REAL	4	-999	Declination error from g filter stack detection.
<b>gEpoch</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the g-band stack (equinox J2000).
<b>gPSFMagnitude</b>	AB magnitudes	REAL	4	-999	PSF magnitude from g filter stack detection.
<b>gPSFMagnitudeErr</b>	AB magnitudes	REAL	4	-999	Error in PSF magnitude from g filter stack detection.
<b>gApertureMag</b>	AB magnitudes	REAL	4	-999	Aperture magnitude from g filter stack detection.
<b>gApertureMagErr</b>	AB magnitudes	REAL	4	-999	Error in aperture magnitude from g filter stack detection.
<b>gKronMagnitude</b>	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from g filter stack detection.
<b>gKronMagnitudeErr</b>	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from g filter stack detection.
<b>ginfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags.
<b>ginfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags2.
<b>ginfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags3.
<b>gnFrames</b>	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the g filter stack detection.
<b>rippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rra</b>	degrees	FLOAT	8	-999	Right ascension from r filter stack detection.
<b>rdec</b>	degrees	FLOAT	8	-999	Declination from r filter stack detection.
<b>rraErr</b>	arcsec	REAL	4	-999	Right ascension error from r filter stack detection.
<b>rdecErr</b>	arcsec	REAL	4	-999	Declination error from r filter stack detection.
<b>rEpoch</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the r-band stack (equinox J2000).

<b>rPSFMag</b>	AB magnitudes	REAL	4	-999	PSF magnitude from r filter stack detection.
<b>rPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in PSF magnitude from r filter stack detection.
<b>rApMag</b>	AB magnitudes	REAL	4	-999	Aperture magnitude from r filter stack detection.
<b>rApMagErr</b>	AB magnitudes	REAL	4	-999	Error in aperture magnitude from r filter stack detection.
<b>rKronMag</b>	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from r filter stack detection.
<b>rKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from r filter stack detection.
<b>rinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the r filter stack photometry. Values listed in DetectionFlags.
<b>rinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the r filter stack photometry. Values listed in DetectionFlags2.
<b>rinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the r filter stack photometry. Values listed in DetectionFlags3.
<b>rnFrames</b>	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the r filter stack detection.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ira</b>	degrees	FLOAT	8	-999	Right ascension from i filter stack detection.
<b>idec</b>	degrees	FLOAT	8	-999	Declination from i filter stack detection.
<b>iraErr</b>	arcsec	REAL	4	-999	Right ascension error from i filter stack detection.
<b>idecErr</b>	arcsec	REAL	4	-999	Declination error from i filter stack detection.
<b>iEpoch</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the i-band stack (equinox J2000).
<b>iPSFMag</b>	AB magnitudes	REAL	4	-999	PSF magnitude from i filter stack detection.
<b>iPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in PSF magnitude from i filter stack detection.
<b>iApMag</b>	AB magnitudes	REAL	4	-999	Aperture magnitude from i filter stack detection.
<b>iApMagErr</b>	AB magnitudes	REAL	4	-999	Error in aperture magnitude from i filter stack detection.
<b>iKronMag</b>	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from i filter stack detection.
<b>iKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from i filter stack detection.
<b>iinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the i filter stack photometry. Values listed in DetectionFlags.
<b>iinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the i filter stack photometry. Values listed in DetectionFlags2.
<b>iinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the i filter stack photometry. Values listed in DetectionFlags3.

<b>inFrames</b>	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zra</b>	degrees	FLOAT	8	-999	Right ascension from z filter stack detection.
<b>zdec</b>	degrees	FLOAT	8	-999	Declination from z filter stack detection.
<b>zraErr</b>	arcsec	REAL	4	-999	Right ascension error from z filter stack detection.
<b>zdecErr</b>	arcsec	REAL	4	-999	Declination error from z filter stack detection.
<b>zEpoch</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the z-band stack (equinox J2000).
<b>zPSFMag</b>	AB magnitudes	REAL	4	-999	PSF magnitude from z filter stack detection.
<b>zPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in PSF magnitude from z filter stack detection.
<b>zApMag</b>	AB magnitudes	REAL	4	-999	Aperture magnitude from z filter stack detection.
<b>zApMagErr</b>	AB magnitudes	REAL	4	-999	Error in aperture magnitude from z filter stack detection.
<b>zKronMag</b>	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from z filter stack detection.
<b>zKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from z filter stack detection.
<b>zinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags.
<b>zinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags2.
<b>zinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags3.
<b>znFrames</b>	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yra</b>	degrees	FLOAT	8	-999	Right ascension from y filter stack detection.
<b>ydec</b>	degrees	FLOAT	8	-999	Declination from y filter stack detection.
<b>yraErr</b>	arcsec	REAL	4	-999	Right ascension error from y filter stack detection.
<b>ydecErr</b>	arcsec	REAL	4	-999	Declination error from y filter stack detection.
<b>yEpoch</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the y-band stack (equinox J2000).
<b>yPSFMag</b>	AB magnitudes	REAL	4	-999	PSF magnitude from y filter stack detection.
<b>yPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in PSF magnitude from y filter stack detection.
<b>yApMag</b>	AB magnitudes	REAL	4	-999	Aperture magnitude from y filter stack detection.

<b>yApMagErr</b>	AB magnitudes	REAL	4	-999	Error in aperture magnitude from y filter stack detection.
<b>yKronMag</b>	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from y filter stack detection.
<b>yKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from y filter stack detection.
<b>yinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags.
<b>yinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags2.
<b>yinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags3.
<b>ynFrames</b>	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the y filter stack detection.

## StackObjectAttributes

**Description: Contains the PSF, Kron (1980), and aperture fluxes for all filters in a single row, along with point-source object shape parameters. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Kron, R. G. 1980, ApJS, 43, 305.**

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gxPos</b>	sky pixels	REAL	4	-999	PSF x center location from g filter stack detection.
<b>gyPos</b>	sky pixels	REAL	4	-999	PSF y center location from g filter stack detection.
<b>gxPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location from g filter stack detection.
<b>gyPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location from g filter stack detection.
<b>gpsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM from g filter stack detection.
<b>gpsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM from g filter stack detection.
<b>gpsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation from g filter stack detection.
<b>gpsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k from g filter stack detection, where $F = F_0 / (1 + k r^2 + r^3.33)$ .

<b>gpsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this g filter stack detection is best fit by a PSF.
<b>gpsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor for g filter stack detection.
<b>gpsfQfPerfect</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked for g filter stack detection.
<b>gpsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit for g filter stack detection.
<b>gmomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> for g filter stack detection.
<b>gmomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> for g filter stack detection.
<b>gmomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> for g filter stack detection.
<b>gmomentR1</b>	arcsec	REAL	4	-999	First radial moment for g filter stack detection.
<b>gmomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting) for g filter stack detection.
<b>gPSFFlux</b>	Janskys	REAL	4	-999	PSF flux from g filter stack detection.
<b>gPSFFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux from g filter stack detection.
<b>gApFlux</b>	Janskys	REAL	4	-999	Aperture flux from g filter stack detection.
<b>gApFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux from g filter stack detection.
<b>gApFillFactor</b>	dimensionless	REAL	4	-999	Aperture fill factor from g filter stack detection.
<b>gApRadius</b>	arcsec	REAL	4	-999	Aperture radius for g filter stack detection.
<b>gKronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux from g filter stack detection.
<b>gKronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux from g filter stack detection.
<b>gKronRadius</b>	arcsec	REAL	4	-999	Kron (1980) radius from g filter stack detection.
<b>gexpTime</b>	seconds	REAL	4	-999	Exposure time of the g filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>gExtNSigma</b>	dimensionless	REAL	4	-999	An extendedness measure for the g filter stack detection based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>gsky</b>	Janskys/arcsec <sup>2</sup>	REAL	4	-999	Residual background sky level at the g filter stack detection.
<b>gskyErr</b>	Janskys/arcsec <sup>2</sup>	REAL	4	-999	Error in residual background sky level at the g filter stack detection.
<b>gzp</b>	magnitudes	REAL	4	0	Photometric zeropoint for the g filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>gPlateScale</b>	arcsec/pixel	REAL	4	0	Local plate scale for the g filter stack.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rxPos</b>	sky pixels	REAL	4	-999	PSF x center location from r filter stack detection.

<b>ryPos</b>	sky pixels	REAL	4	-999	PSF y center location from r filter stack detection.
<b>rxPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location from r filter stack detection.
<b>ryPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location from r filter stack detection.
<b>rpsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM from r filter stack detection.
<b>rpsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM from r filter stack detection.
<b>rpsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation from r filter stack detection.
<b>rpsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k from r filter stack detection, where $F = F_0 / (1 + k r^2 + r^{3.33})$ .
<b>rpsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this r filter stack detection is best fit by a PSF.
<b>rpsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor for r filter stack detection.
<b>rpsfQFPercent</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked for r filter stack detection.
<b>rpsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit for r filter stack detection.
<b>rmomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> for r filter stack detection.
<b>rmomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> for r filter stack detection.
<b>rmomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> for r filter stack detection.
<b>rmomentR1</b>	arcsec	REAL	4	-999	First radial moment for r filter stack detection.
<b>rmomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting) for r filter stack detection.
<b>rPSFFlux</b>	Janskys	REAL	4	-999	PSF flux from r filter stack detection.
<b>rPSFFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux from r filter stack detection.
<b>rApFlux</b>	Janskys	REAL	4	-999	Aperture flux from r filter stack detection.
<b>rApFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux from r filter stack detection.
<b>rApFillFactor</b>	dimensionless	REAL	4	-999	Aperture fill factor from r filter stack detection.
<b>rApRadius</b>	arcsec	REAL	4	-999	Aperture radius for r filter stack detection.
<b>rKronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux from r filter stack detection.
<b>rKronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux from r filter stack detection.
<b>rKronRadius</b>	arcsec	REAL	4	-999	Kron (1980) radius from r filter stack detection.
<b>rexpTime</b>	seconds	REAL	4	-999	Exposure time of the r filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>rExtNSigma</b>	dimensionless	REAL	4	-999	An extendedness measure for the r filter stack detection based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>rsky</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Residual background sky level at the r filter stack detection.
<b>rskyErr</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Error in residual background sky level at the r filter stack detection.

<b>rzp</b>	magnitudes	REAL	4	0	Photometric zeropoint for the r filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>rPlateScale</b>	arcsec/pixel	REAL	4	0	Local plate scale for the r filter stack.
<b>iippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ixPos</b>	sky pixels	REAL	4	-999	PSF x center location from i filter stack detection.
<b>iyPos</b>	sky pixels	REAL	4	-999	PSF y center location from i filter stack detection.
<b>ixPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location from i filter stack detection.
<b>iyPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location from i filter stack detection.
<b>ipsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM from i filter stack detection.
<b>ipsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM from i filter stack detection.
<b>ipsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation from i filter stack detection.
<b>ipsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k from i filter stack detection, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>ipsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this i filter stack detection is best fit by a PSF.
<b>ipsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor for i filter stack detection.
<b>ipsfQFPercent</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked for i filter stack detection.
<b>ipsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit for i filter stack detection.
<b>imomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> for i filter stack detection.
<b>imomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> for i filter stack detection.
<b>imomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> for i filter stack detection.
<b>imomentR1</b>	arcsec	REAL	4	-999	First radial moment for i filter stack detection.
<b>imomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting) for i filter stack detection.
<b>iPSFFlux</b>	Janskys	REAL	4	-999	PSF flux from i filter stack detection.
<b>iPSFFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux from i filter stack detection.
<b>iApFlux</b>	Janskys	REAL	4	-999	Aperture flux from i filter stack detection.
<b>iApFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux from i filter stack detection.
<b>iApFillFactor</b>	dimensionless	REAL	4	-999	Aperture fill factor from i filter stack detection.
<b>iApRadius</b>	arcsec	REAL	4	-999	Aperture radius for i filter stack detection.
<b>iKronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux from i filter stack detection.
<b>iKronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux from i filter stack detection.
<b>iKronRadius</b>	arcsec	REAL	4	-999	Kron (1980) radius from i filter stack detection.



<b>iexpTime</b>	seconds	REAL	4	-999	Exposure time of the i filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>iExtNSigma</b>	dimensionless	REAL	4	-999	An extendedness measure for the i filter stack detection based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>isky</b>	Janskys /arcsec <sup>2</sup>	REAL	4	-999	Residual background sky level at the i filter stack detection.
<b>iskyErr</b>	Janskys /arcsec <sup>2</sup>	REAL	4	-999	Error in residual background sky level at the i filter stack detection.
<b>izp</b>	magnitudes	REAL	4	0	Photometric zeropoint for the i filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>iPlateScale</b>	arcsec/pixel	REAL	4	0	Local plate scale for the i filter stack.
<b>zippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zxPos</b>	sky pixels	REAL	4	-999	PSF x center location from z filter stack detection.
<b>zyPos</b>	sky pixels	REAL	4	-999	PSF y center location from z filter stack detection.
<b>zxPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location from z filter stack detection.
<b>zyPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location from z filter stack detection.
<b>zpsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM from z filter stack detection.
<b>zpsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM from z filter stack detection.
<b>zpsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation from z filter stack detection.
<b>zpsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k from z filter stack detection, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>zpsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this z filter stack detection is best fit by a PSF.
<b>zpsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor for z filter stack detection.
<b>zpsfQfEffect</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked for z filter stack detection.
<b>zpsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit for z filter stack detection.
<b>zmomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> for z filter stack detection.
<b>zmomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> for z filter stack detection.
<b>zmomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> for z filter stack detection.
<b>zmomentR1</b>	arcsec	REAL	4	-999	First radial moment for z filter stack detection.
<b>zmomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting) for z filter stack detection.
<b>zPSFFlux</b>	Janskys	REAL	4	-999	PSF flux from z filter stack detection.
<b>zPSFFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux from z filter stack detection.

<b>zApFlux</b>	Janskys	REAL	4	-999	Aperture flux from z filter stack detection.
<b>zApFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux from z filter stack detection.
<b>zApFillFac</b>	dimensionless	REAL	4	-999	Aperture fill factor from z filter stack detection.
<b>zApRadius</b>	arcsec	REAL	4	-999	Aperture radius for z filter stack detection.
<b>zKronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux from z filter stack detection.
<b>zKronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux from z filter stack detection.
<b>zKronRad</b>	arcsec	REAL	4	-999	Kron (1980) radius from z filter stack detection.
<b>zexpTime</b>	seconds	REAL	4	-999	Exposure time of the z filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>zExtNSigma</b>	dimensionless	REAL	4	-999	An extendedness measure for the z filter stack detection based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>zsky</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Residual background sky level at the z filter stack detection.
<b>zskyErr</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Error in residual background sky level at the z filter stack detection.
<b>zpz</b>	magnitudes	REAL	4	0	Photometric zeropoint for the z filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>zPlateScale</b>	arcsec / pixel	REAL	4	0	Local plate scale for the z filter stack.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yxPos</b>	sky pixels	REAL	4	-999	PSF x center location from y filter stack detection.
<b>yyPos</b>	sky pixels	REAL	4	-999	PSF y center location from y filter stack detection.
<b>yxPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location from y filter stack detection.
<b>yyPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location from y filter stack detection.
<b>ypsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM from y filter stack detection.
<b>ypsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM from y filter stack detection.
<b>ypsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation from y filter stack detection.
<b>ypsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k from y filter stack detection, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>ypsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this y filter stack detection is best fit by a PSF.
<b>ypsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor for y filter stack detection.
<b>ypsfQfPercent</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked for y filter stack detection.
<b>ypsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit for y filter stack detection.

<b>ymomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> for y filter stack detection.
<b>ymomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> for y filter stack detection.
<b>ymomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> for y filter stack detection.
<b>ymomentR1</b>	arcsec	REAL	4	-999	First radial moment for y filter stack detection.
<b>ymomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting) for y filter stack detection.
<b>yPSFFlux</b>	Janskys	REAL	4	-999	PSF flux from y filter stack detection.
<b>yPSFFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux from y filter stack detection.
<b>yApFlux</b>	Janskys	REAL	4	-999	Aperture flux from y filter stack detection.
<b>yApFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux from y filter stack detection.
<b>yApFillFactor</b>	dimensionless	REAL	4	-999	Aperture fill factor from y filter stack detection.
<b>yApRadius</b>	arcsec	REAL	4	-999	Aperture radius for y filter stack detection.
<b>yKronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux from y filter stack detection.
<b>yKronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux from y filter stack detection.
<b>yKronRadius</b>	arcsec	REAL	4	-999	Kron (1980) radius from y filter stack detection.
<b>yexpTime</b>	seconds	REAL	4	-999	Exposure time of the y filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>yExtNSigma</b>	dimensionless	REAL	4	-999	An extendedness measure for the y filter stack detection based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>ySky</b>	Janskys/arcsec <sup>2</sup>	REAL	4	-999	Residual background sky level at the y filter stack detection.
<b>ySkyErr</b>	Janskys/arcsec <sup>2</sup>	REAL	4	-999	Error in residual background sky level at the y filter stack detection.
<b>yzp</b>	magnitudes	REAL	4	0	Photometric zeropoint for the y filter stack. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>yPlateScale</b>	arcsec/pixel	REAL	4	0	Local plate scale for the y filter stack.

## StackApFlx

**Description:** Contains the unconvolved fluxes within the SDSS R5 (r = 3.00 arcsec), R6 (r = 4.63 arcsec), and R7 (r = 7.43 arcsec) apertures (Stoughton 2003). Convolved fluxes within these same apertures are also provided for images convolved to 6 sky pixels (1.5 arcsec) and 8 sky pixels (2.0 arcsec). All filters are matched into a single row. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.

<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gstackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gflxR5</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>gflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>gflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>gflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>gflxR6</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>gflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>gflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>gflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>gflxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR5</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR6</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.

<b>gc6flxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR5</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc8flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc8flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc8flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc8flxR6</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rflxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.

<b>rflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.

<b>rc8flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR6 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>istackDetectionID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>iflxR5</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR6</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR7</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>ic6flxR5</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic6flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic6flxR5 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic6flxR5 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic6flxR6</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.

<b>ic6flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic6flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic6flxR6 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic6flxR7</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic6flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic6flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic6flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic8flxR5</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic8flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic8flxR5 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic8flxR5 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>ic8flxR6</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic8flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic8flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic8flxR6 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>ic8flxR7</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic8flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic8flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ic8flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zflxR5</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.



<b>zflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR6</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR7</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zc6flxR5</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc6flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc6flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc6flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc6flxR6</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc6flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc6flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc6flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc6flxR7</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc6flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc6flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc6flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR5</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.

<b>zc8flxR5 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR6</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR7</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>yflxR5</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR6</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR7</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yc6flxR5</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc6flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.



# StackApFlxExGalUnc

**Description:** Contains the unconvolved fluxes within the SDSS R3 ( $r = 1.03$  arcsec), R4 ( $r = 1.76$  arcsec), R5 ( $r = 3.00$  arcsec), R6 ( $r = 4.63$  arcsec), R7 ( $r = 7.43$  arcsec), R8 ( $r = 11.42$  arcsec), R9 ( $r = 18.20$  arcsec), R10 ( $r = 28.20$  arcsec), and R11 ( $r = 44.21$  arcsec) apertures (Stoughton 2003) for extended sources. These measurements are only provided for objects in the extragalactic sky, i.e., they are not provided for objects in the Galactic plane because they are not useful in crowded areas. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePSPsSTid	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
randomStackObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
primaryDetection	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDetection	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
gippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
gstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
gstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
gflxR3	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 1.03$ arcsec.
gflxR3Err	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 1.03$ arcsec.
gflxR3Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 1.03$ arcsec.
gflxR3Fill	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 1.03$ arcsec.
gflxR4	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 1.76$ arcsec.
gflxR4Err	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 1.76$ arcsec.
gflxR4Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 1.76$ arcsec.
gflxR4Fill	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 1.76$ arcsec.
gflxR5	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
gflxR5Err	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
gflxR5Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 3.00$ arcsec.
gflxR5Fill	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 3.00$ arcsec.
gflxR6	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.
gflxR6Err	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.
gflxR6Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 4.63$ arcsec.

<b>gflxR6Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>gflxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR7Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>gflxR8</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>gflxR8Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>gflxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>gflxR8Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>gflxR9</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>gflxR9Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>gflxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>gflxR9Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>gflxR10</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>gflxR10Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>gflxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>gflxR10Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>gflxR11</b>	Janskys	REAL	4	-999	Flux from g filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>gflxR11Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>gflxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>gflxR11Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for g filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>rippDetectID</b>	dimensi onless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensi onless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensi onless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rflxR3</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>rflxR3Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>rflxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>rflxR3Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>rflxR4</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>rflxR4Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 1.76$ arcsec.

<b>rflxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>rflxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>rflxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>rflxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>rflxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>rflxR8</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>rflxR8Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>rflxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>rflxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>rflxR9</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>rflxR9Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>rflxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>rflxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>rflxR10</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>rflxR10Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>rflxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>rflxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>rflxR11</b>	Janskys	REAL	4	-999	Flux from r filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>rflxR11Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>rflxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>rflxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection within an aperture of radius $r = 44.21$ arcsec.

<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iflxR3</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>iflxR3Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>iflxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>iflxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>iflxR4</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>iflxR4Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>iflxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>iflxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>iflxR5</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>iflxR6</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>iflxR7</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>iflxR8</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>iflxR8Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>iflxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>iflxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>iflxR9</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>iflxR9Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>iflxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 18.20$ arcsec.

<b>iflxR9Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>iflxR10</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>iflxR10Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>iflxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>iflxR10Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>iflxR11</b>	Janskys	REAL	4	-999	Flux from i filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>iflxR11Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>iflxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>iflxR11Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for i filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>zippDetectID</b>	dimensi onless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensi onless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensi onless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zflxR3</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>zflxR3Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>zflxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>zflxR3Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>zflxR4</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>zflxR4Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>zflxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>zflxR4Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>zflxR5</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR5Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>zflxR6</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR6Fill</b>	dimensi onless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>zflxR7</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.



<b>zflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>zflxR8</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>zflxR8Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>zflxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>zflxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>zflxR9</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>zflxR9Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>zflxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>zflxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>zflxR10</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>zflxR10Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>zflxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>zflxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>zflxR11</b>	Janskys	REAL	4	-999	Flux from z filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>zflxR11Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>zflxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>zflxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yflxR3</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>yflxR3Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>yflxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>yflxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 1.03$ arcsec.
<b>yflxR4</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>yflxR4Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>yflxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>yflxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 1.76$ arcsec.
<b>yflxR5</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.

<b>yflxR5Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 3.00$ arcsec.
<b>yflxR6</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 4.63$ arcsec.
<b>yflxR7</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 7.43$ arcsec.
<b>yflxR8</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>yflxR8Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>yflxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>yflxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 11.42$ arcsec.
<b>yflxR9</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>yflxR9Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>yflxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>yflxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 18.20$ arcsec.
<b>yflxR10</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>yflxR10Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>yflxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>yflxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 28.20$ arcsec.
<b>yflxR11</b>	Janskys	REAL	4	-999	Flux from y filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>yflxR11Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>yflxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection within an aperture of radius $r = 44.21$ arcsec.
<b>yflxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection within an aperture of radius $r = 44.21$ arcsec.

## StackApFlxExGalCon6

**Description:** Contains the fluxes within the SDSS R3 ( $r = 1.03$  arcsec), R4 ( $r = 1.76$  arcsec), R5 ( $r = 3.00$  arcsec), R6 ( $r = 4.63$  arcsec), R7 ( $r = 7.43$  arcsec), R8 ( $r = 11.42$  arcsec), R9 ( $r = 18.20$  arcsec), R10 ( $r = 28.20$  arcsec), and R11 ( $r = 44.21$  arcsec) apertures (Stoughton 2003) for extended sources after the images have been convolved to a target of 6 sky pixels (1.5 arcsec). These measurements are only provided for objects in the extragalactic sky, i.e., they are not provided for objects in the Galactic plane because they are not useful in crowded areas. See StackObjectThin table for discussion of primary, secondary, and best detections. **References:** Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniqueP spsSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>random StackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primary Detection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDet ection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDet ectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackD etectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackI mageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gc6flxR3</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>gc6flxR3Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>gc6flxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>gc6flxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>gc6flxR4</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>gc6flxR4Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>gc6flxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>gc6flxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>gc6flxR5</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc6flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.

<b>gc6flxR6</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc6flxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc6flxR8</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc6flxR8Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc6flxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc6flxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc6flxR9</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc6flxR9Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc6flxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc6flxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc6flxR10</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc6flxR10Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc6flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc6flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc6flxR11</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>gc6flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.

<b>gc6flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>gc6flxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rc6flxR3</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc6flxR3Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc6flxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc6flxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc6flxR4</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc6flxR4Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc6flxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc6flxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc6flxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc6flxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc6flxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.

<b>rc6flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc6flxR8</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc6flxR8 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc6flxR8 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc6flxR8 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc6flxR9</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc6flxR9 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc6flxR9 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc6flxR9 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc6flxR10</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc6flxR10 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc6flxR10 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc6flxR10 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc6flxR11</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc6flxR11 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc6flxR11 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc6flxR11 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ic6flxR3</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>ic6flxR3 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.



<b>ic6flxR9</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic6flxR9 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic6flxR9 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic6flxR9 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic6flxR10</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic6flxR10 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic6flxR10 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic6flxR10 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic6flxR11</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic6flxR11 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic6flxR11 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic6flxR11 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zc6flxR3</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc6flxR3 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc6flxR3 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc6flxR3 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc6flxR4</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc6flxR4 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc6flxR4 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc6flxR4 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.





<b>zc6flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>zc6flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>zc6flxR11</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc6flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc6flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc6flxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yc6flxR3</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc6flxR3Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc6flxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc6flxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc6flxR4</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc6flxR4Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc6flxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc6flxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc6flxR5</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc6flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc6flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc6flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc6flxR6</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc6flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.

<b>yc6flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc6flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc6flxR7</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc6flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc6flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc6flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc6flxR8</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc6flxR8Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc6flxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc6flxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc6flxR9</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc6flxR9Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc6flxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc6flxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc6flxR10</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc6flxR10Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc6flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc6flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc6flxR11</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yc6flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yc6flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yc6flxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 6 sky pixels (1.5 arcsec) within an aperture of radius $r = 44.21$ arcsec.

## StackApFlxExGalCon8

**Description:** Contains the fluxes within the SDSS R3 ( $r = 1.03$  arcsec), R4 ( $r = 1.76$  arcsec), R5 ( $r = 3.00$  arcsec), R6 ( $r = 4.63$  arcsec), R7 ( $r = 7.43$  arcsec), R8 ( $r = 11.42$  arcsec), R9 ( $r = 18.20$  arcsec), R10 ( $r = 28.20$  arcsec), and R11 ( $r = 44.21$  arcsec) apertures (Stoughton 2003) for extended sources after the images have been convolved to a target of 8 sky pixels (2.0 arcsec). These measurements are only provided for objects in the extragalactic sky, i.e., they are not provided for objects in the Galactic plane because they are not useful in crowded areas. See StackObjectThin table for discussion of primary, secondary, and best detections. **References:** Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniqueP spsSTid	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
random StackObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
primary Detection	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDet ection	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
gippDet ectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
gstackD etectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
gstackI mageID	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
gc8flxR3	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
gc8flxR 3Err	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
gc8flxR 3Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
gc8flxR 3Fill	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
gc8flxR4	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
gc8flxR 4Err	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
gc8flxR 4Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
gc8flxR 4Fill	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
gc8flxR5	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
gc8flxR 5Err	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
gc8flxR 5Std	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.

<b>gc8flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>gc8flxR6</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>gc8flxR7</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>gc8flxR8</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc8flxR8Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc8flxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc8flxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>gc8flxR9</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc8flxR9Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc8flxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc8flxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>gc8flxR10</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc8flxR10Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc8flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc8flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>gc8flxR11</b>	Janskys	REAL	4	-999	Flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.

<b>gc8flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>gc8flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>gc8flxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for g filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rc8flxR3</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc8flxR3Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc8flxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc8flxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>rc8flxR4</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc8flxR4Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc8flxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc8flxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>rc8flxR5</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>rc8flxR6</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>rc8flxR7</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.

<b>rc8flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR7 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>rc8flxR8</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc8flxR8 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc8flxR8 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc8flxR8 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>rc8flxR9</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc8flxR9 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc8flxR9 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc8flxR9 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>rc8flxR10</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc8flxR10 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc8flxR10 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc8flxR10 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>rc8flxR11</b>	Janskys	REAL	4	-999	Flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc8flxR11 Err</b>	Janskys	REAL	4	-999	Error in flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc8flxR11 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>rc8flxR11 Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for r filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ic8flxR3</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.





<b>ic8flxR8 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>ic8flxR9</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic8flxR9 Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic8flxR9 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic8flxR9 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>ic8flxR10</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic8flxR1 0Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic8flxR1 0Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic8flxR1 0Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>ic8flxR11</b>	Janskys	REAL	4	-999	Flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic8flxR1 1Err</b>	Janskys	REAL	4	-999	Error in flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic8flxR1 1Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>ic8flxR1 1Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for i filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zippDet ectID</b>	dimens ionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackD etectID</b>	dimens ionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackI mageID</b>	dimens ionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zc8flxR3</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc8flxR3 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc8flxR3 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc8flxR3 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>zc8flxR4</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc8flxR4 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc8flxR4 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.

<b>zc8flxR4 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>zc8flxR5</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR5 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR5 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR5 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>zc8flxR6</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR6 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>zc8flxR7</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR7 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>zc8flxR8</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>zc8flxR8 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>zc8flxR8 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>zc8flxR8 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>zc8flxR9</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>zc8flxR9 Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>zc8flxR9 Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>zc8flxR9 Fill</b>	dimens ionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>zc8flxR10</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.

<b>zc8flxR10Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>zc8flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>zc8flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>zc8flxR11</b>	Janskys	REAL	4	-999	Flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc8flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc8flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>zc8flxR11Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for z filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yc8flxR3</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc8flxR3Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc8flxR3Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc8flxR3Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.03$ arcsec.
<b>yc8flxR4</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc8flxR4Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc8flxR4Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc8flxR4Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 1.76$ arcsec.
<b>yc8flxR5</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc8flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc8flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc8flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 3.00$ arcsec.
<b>yc8flxR6</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.

<b>yc8flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc8flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc8flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 4.63$ arcsec.
<b>yc8flxR7</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc8flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc8flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc8flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 7.43$ arcsec.
<b>yc8flxR8</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc8flxR8Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc8flxR8Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc8flxR8Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 11.42$ arcsec.
<b>yc8flxR9</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc8flxR9Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc8flxR9Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc8flxR9Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 18.20$ arcsec.
<b>yc8flxR10</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc8flxR10Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc8flxR10Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc8flxR10Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 28.20$ arcsec.
<b>yc8flxR11</b>	Janskys	REAL	4	-999	Flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yc8flxR11Err</b>	Janskys	REAL	4	-999	Error in flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
<b>yc8flxR11Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.

yc8flxR11Fill	dimensionless	REAL	4	-999	Aperture fill factor for y filter detection convolved to a target of 8 sky pixels (2.0 arcsec) within an aperture of radius $r = 44.21$ arcsec.
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## StackModelFitExp

**Description: Contains the exponential fit parameters to extended sources. See StackObjectThin table for discussion of primary, secondary, and best detections.**

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspSTid	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
randomStackObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
primaryDetection	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDetection	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
gippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
gstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
gstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
gExpRadius	arcsec	REAL	4	-999	Exponential fit radius for g filter stack detection.
gExpRadiusErr	arcsec	REAL	4	-999	Error in exponential fit radius for g filter stack detection.
gExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for g filter stack detection.
gExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for g filter stack detection.
gExpAb	dimensionless	REAL	4	-999	Exponential fit axis ratio for g filter stack detection.
gExpAbErr	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for g filter stack detection.
gExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for g filter stack detection.
gExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for g filter stack detection.
gExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for g filter stack detection.
gExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for g filter stack detection.
gExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for g filter stack detection.
gExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for g filter stack detection.
gExpChisq	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for g filter stack detection.
rippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
rstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.

<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for r filter stack detection.
<b>rExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for r filter stack detection.
<b>rExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for r filter stack detection.
<b>rExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for r filter stack detection.
<b>rExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for r filter stack detection.
<b>rExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for r filter stack detection.
<b>rExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for r filter stack detection.
<b>rExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for r filter stack detection.
<b>rExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for r filter stack detection.
<b>rExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for r filter stack detection.
<b>rExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for r filter stack detection.
<b>rExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for r filter stack detection.
<b>rExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for r filter stack detection.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for i filter stack detection.
<b>iExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for i filter stack detection.
<b>iExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for i filter stack detection.
<b>iExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for i filter stack detection.
<b>iExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for i filter stack detection.
<b>iExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for i filter stack detection.
<b>iExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for i filter stack detection.
<b>iExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for i filter stack detection.
<b>iExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for i filter stack detection.
<b>iExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for i filter stack detection.
<b>iExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for i filter stack detection.
<b>iExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for i filter stack detection.
<b>iExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for i filter stack detection.

<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for z filter stack detection.
<b>zExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for z filter stack detection.
<b>zExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for z filter stack detection.
<b>zExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for z filter stack detection.
<b>zExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for z filter stack detection.
<b>zExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for z filter stack detection.
<b>zExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for z filter stack detection.
<b>zExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for z filter stack detection.
<b>zExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for z filter stack detection.
<b>zExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for z filter stack detection.
<b>zExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for z filter stack detection.
<b>zExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for z filter stack detection.
<b>zExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for y filter stack detection.
<b>yExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for y filter stack detection.
<b>yExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for y filter stack detection.
<b>yExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for y filter stack detection.
<b>yExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for y filter stack detection.
<b>yExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for y filter stack detection.
<b>yExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for y filter stack detection.
<b>yExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for y filter stack detection.
<b>yExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for y filter stack detection.
<b>yExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for y filter stack detection.
<b>yExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for y filter stack detection.

yExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for y filter stack detection.
yExpChisq	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for y filter stack detection.

## StackModelFitDeV

**Description:** Contains the de Vaucouleurs (1948) fit parameters to extended sources. See StackObjectThin table for discussion of primary, secondary, and best detections.  
**References:** de Vaucouleurs, G. 1948, Annales d'Astrophysique, 11, 247.

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspSTid	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
randomStackObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
primaryDetection	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDetection	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
gippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
gstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
gstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
gDeVRadius	arcsec	REAL	4	-999	De Vaucouleurs (1948) fit radius for g filter stack detection.
gDeVRadiusErr	arcsec	REAL	4	-999	Error in de Vaucouleurs (1948) fit radius for g filter stack detection.
gDeVMag	AB magnitudes	REAL	4	-999	De Vaucouleurs (1948) fit magnitude for g filter stack detection.
gDeVMagErr	AB magnitudes	REAL	4	-999	Error in de Vaucouleurs (1948) fit magnitude for g filter stack detection.
gDeVAb	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit axis ratio for g filter stack detection.
gDeVAbErr	dimensionless	REAL	4	-999	Error in de Vaucouleurs (1948) fit axis ratio for g filter stack detection.
gDeVPhi	degrees	REAL	4	-999	Major axis position angle, phi, of de Vaucouleurs (1948) fit for g filter stack detection.
gDeVPhiErr	degrees	REAL	4	-999	Error in major axis position angle of de Vaucouleurs (1948) fit for g filter stack detection.
gDeVRa	degrees	FLOAT	8	-999	Right ascension of de Vaucouleurs (1948) fit center for g filter stack detection.
gDeVDec	degrees	FLOAT	8	-999	Declination of de Vaucouleurs (1948) fit center for g filter stack detection.
gDeVRaErr	arcsec	REAL	4	-999	Error in right ascension of de Vaucouleurs (1948) fit center for g filter stack detection.
gDeVDecErr	arcsec	REAL	4	-999	Error in declination of de Vaucouleurs (1948) fit center for g filter stack detection.
gDeVChisq	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit reduced chi squared for g filter stack detection.
rippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.



<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rDeVRadius</b>	arcsec	REAL	4	-999	De Vaucouleurs (1948) fit radius for r filter stack detection.
<b>rDeVRadiusErr</b>	arcsec	REAL	4	-999	Error in de Vaucouleurs (1948) fit radius for r filter stack detection.
<b>rDeVMag</b>	AB magnitudes	REAL	4	-999	De Vaucouleurs (1948) fit magnitude for r filter stack detection.
<b>rDeVMagErr</b>	AB magnitudes	REAL	4	-999	Error in de Vaucouleurs (1948) fit magnitude for r filter stack detection.
<b>rDeVAb</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit axis ratio for r filter stack detection.
<b>rDeVAbErr</b>	dimensionless	REAL	4	-999	Error in de Vaucouleurs (1948) fit axis ratio for r filter stack detection.
<b>rDeVPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of de Vaucouleurs (1948) fit for r filter stack detection.
<b>rDeVPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of de Vaucouleurs (1948) fit for r filter stack detection.
<b>rDeVRa</b>	degrees	FLOAT	8	-999	Right ascension of de Vaucouleurs (1948) fit center for r filter stack detection.
<b>rDeVDec</b>	degrees	FLOAT	8	-999	Declination of de Vaucouleurs (1948) fit center for r filter stack detection.
<b>rDeVRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of de Vaucouleurs (1948) fit center for r filter stack detection.
<b>rDeVDecErr</b>	arcsec	REAL	4	-999	Error in declination of de Vaucouleurs (1948) fit center for r filter stack detection.
<b>rDeVChisq</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit reduced chi squared for r filter stack detection.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iDeVRadius</b>	arcsec	REAL	4	-999	De Vaucouleurs (1948) fit radius for i filter stack detection.
<b>iDeVRadiusErr</b>	arcsec	REAL	4	-999	Error in de Vaucouleurs (1948) fit radius for i filter stack detection.
<b>iDeVMag</b>	AB magnitudes	REAL	4	-999	De Vaucouleurs (1948) fit magnitude for i filter stack detection.
<b>iDeVMagErr</b>	AB magnitudes	REAL	4	-999	Error in de Vaucouleurs (1948) fit magnitude for i filter stack detection.
<b>iDeVAb</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit axis ratio for i filter stack detection.
<b>iDeVAbErr</b>	dimensionless	REAL	4	-999	Error in de Vaucouleurs (1948) fit axis ratio for i filter stack detection.
<b>iDeVPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of de Vaucouleurs (1948) fit for i filter stack detection.
<b>iDeVPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of de Vaucouleurs (1948) fit for i filter stack detection.
<b>iDeVRa</b>	degrees	FLOAT	8	-999	Right ascension of de Vaucouleurs (1948) fit center for i filter stack detection.
<b>iDeVDec</b>	degrees	FLOAT	8	-999	Declination of de Vaucouleurs (1948) fit center for i filter stack detection.
<b>iDeVRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of de Vaucouleurs (1948) fit center for i filter stack detection.

<b>iDeVDecErr</b>	arcsec	REAL	4	-999	Error in declination of de Vaucouleurs (1948) fit center for i filter stack detection.
<b>iDeVChisq</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit reduced chi squared for i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zDeVRadius</b>	arcsec	REAL	4	-999	De Vaucouleurs (1948) fit radius for z filter stack detection.
<b>zDeVRadiusErr</b>	arcsec	REAL	4	-999	Error in de Vaucouleurs (1948) fit radius for z filter stack detection.
<b>zDeVMag</b>	AB magnitudes	REAL	4	-999	De Vaucouleurs (1948) fit magnitude for z filter stack detection.
<b>zDeVMagErr</b>	AB magnitudes	REAL	4	-999	Error in de Vaucouleurs (1948) fit magnitude for z filter stack detection.
<b>zDeVAb</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit axis ratio for z filter stack detection.
<b>zDeVAbErr</b>	dimensionless	REAL	4	-999	Error in de Vaucouleurs (1948) fit axis ratio for z filter stack detection.
<b>zDeVPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of de Vaucouleurs (1948) fit for z filter stack detection.
<b>zDeVPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of de Vaucouleurs (1948) fit for z filter stack detection.
<b>zDeVRa</b>	degrees	FLOAT	8	-999	Right ascension of de Vaucouleurs (1948) fit center for z filter stack detection.
<b>zDeVDec</b>	degrees	FLOAT	8	-999	Declination of de Vaucouleurs (1948) fit center for z filter stack detection.
<b>zDeVRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of de Vaucouleurs (1948) fit center for z filter stack detection.
<b>zDeVDecErr</b>	arcsec	REAL	4	-999	Error in declination of de Vaucouleurs (1948) fit center for z filter stack detection.
<b>zDeVChisq</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit reduced chi squared for z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yDeVRadius</b>	arcsec	REAL	4	-999	De Vaucouleurs (1948) fit radius for y filter stack detection.
<b>yDeVRadiusErr</b>	arcsec	REAL	4	-999	Error in de Vaucouleurs (1948) fit radius for y filter stack detection.
<b>yDeVMag</b>	AB magnitudes	REAL	4	-999	De Vaucouleurs (1948) fit magnitude for y filter stack detection.
<b>yDeVMagErr</b>	AB magnitudes	REAL	4	-999	Error in de Vaucouleurs (1948) fit magnitude for y filter stack detection.
<b>yDeVAb</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit axis ratio for y filter stack detection.
<b>yDeVAbErr</b>	dimensionless	REAL	4	-999	Error in de Vaucouleurs (1948) fit axis ratio for y filter stack detection.
<b>yDeVPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of de Vaucouleurs (1948) fit for y filter stack detection.
<b>yDeVPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of de Vaucouleurs (1948) fit for y filter stack detection.

<b>yDeVRa</b>	degrees	FLOAT	8	-999	Right ascension of de Vaucouleurs (1948) fit center for y filter stack detection.
<b>yDeVDec</b>	degrees	FLOAT	8	-999	Declination of de Vaucouleurs (1948) fit center for y filter stack detection.
<b>yDeVRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of de Vaucouleurs (1948) fit center for y filter stack detection.
<b>yDeVDecErr</b>	arcsec	REAL	4	-999	Error in declination of de Vaucouleurs (1948) fit center for y filter stack detection.
<b>yDeVChisq</b>	dimensionless	REAL	4	-999	De Vaucouleurs (1948) fit reduced chi squared for y filter stack detection.

## StackModelFitSer

**Description:** Contains the Sersic (1963) fit parameters to extended sources. Only objects with magnitudes brighter than 21.5 outside the Galactic plane have Sersic fits. See [StackObjectThin](#) table for discussion of primary, secondary, and best detections. **References:** Sersic, J. L. 1963, *Boletin de la Asociacion Argentina de Astronomia La Plata Argentina*, 6, 41.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gSerRadius</b>	arcsec	REAL	4	-999	Sersic (1963) fit radius for g filter stack detection.
<b>gSerRadiusErr</b>	arcsec	REAL	4	-999	Error in Sersic (1963) fit radius for g filter stack detection.
<b>gSerMag</b>	AB magnitudes	REAL	4	-999	Sersic (1963) fit magnitude for g filter stack detection.
<b>gSerMagErr</b>	AB magnitudes	REAL	4	-999	Error in Sersic (1963) fit magnitude for g filter stack detection.
<b>gSerAb</b>	dimensionless	REAL	4	-999	Sersic (1963) fit axis ratio for g filter stack detection.
<b>gSerAbErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit axis ratio for g filter stack detection.
<b>gSerNu</b>	dimensionless	REAL	4	-999	Sersic (1963) fit index for g filter stack detection.
<b>gSerNuErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit index for g filter stack detection.
<b>gSerPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of Sersic (1963) fit for g filter stack detection.
<b>gSerPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of Sersic (1963) fit for g filter stack detection.

<b>gSerRa</b>	degrees	FLOAT	8	-999	Right ascension of Sersic (1963) fit center for g filter stack detection.
<b>gSerDec</b>	degrees	FLOAT	8	-999	Declination of Sersic (1963) fit center for g filter stack detection.
<b>gSerRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of Sersic (1963) fit center for g filter stack detection.
<b>gSerDecErr</b>	arcsec	REAL	4	-999	Error in declination of Sersic (1963) fit center for g filter stack detection.
<b>gSerChisq</b>	dimensionless	REAL	4	-999	Sersic (1963) fit reduced chi squared for g filter stack detection.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rSerRadius</b>	arcsec	REAL	4	-999	Sersic (1963) fit radius for r filter stack detection.
<b>rSerRadiusErr</b>	arcsec	REAL	4	-999	Error in Sersic (1963) fit radius for r filter stack detection.
<b>rSerMag</b>	AB magnitudes	REAL	4	-999	Sersic (1963) fit magnitude for r filter stack detection.
<b>rSerMagErr</b>	AB magnitudes	REAL	4	-999	Error in Sersic (1963) fit magnitude for r filter stack detection.
<b>rSerAb</b>	dimensionless	REAL	4	-999	Sersic (1963) fit axis ratio for r filter stack detection.
<b>rSerAbErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit axis ratio for r filter stack detection.
<b>rSerNu</b>	dimensionless	REAL	4	-999	Sersic (1963) fit index for r filter stack detection.
<b>rSerNuErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit index for r filter stack detection.
<b>rSerPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of Sersic (1963) fit for r filter stack detection.
<b>rSerPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of Sersic (1963) fit for r filter stack detection.
<b>rSerRa</b>	degrees	FLOAT	8	-999	Right ascension of Sersic (1963) fit center for r filter stack detection.
<b>rSerDec</b>	degrees	FLOAT	8	-999	Declination of Sersic (1963) fit center for r filter stack detection.
<b>rSerRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of Sersic (1963) fit center for r filter stack detection.
<b>rSerDecErr</b>	arcsec	REAL	4	-999	Error in declination of Sersic (1963) fit center for r filter stack detection.
<b>rSerChisq</b>	dimensionless	REAL	4	-999	Sersic (1963) fit reduced chi squared for r filter stack detection.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iSerRadius</b>	arcsec	REAL	4	-999	Sersic (1963) fit radius for i filter stack detection.
<b>iSerRadiusErr</b>	arcsec	REAL	4	-999	Error in Sersic (1963) fit radius for i filter stack detection.
<b>iSerMag</b>	AB magnitudes	REAL	4	-999	Sersic (1963) fit magnitude for i filter stack detection.
<b>iSerMagErr</b>	AB magnitudes	REAL	4	-999	Error in Sersic (1963) fit magnitude for i filter stack detection.

<b>iSerAb</b>	dimensionless	REAL	4	-999	Sersic (1963) fit axis ratio for i filter stack detection.
<b>iSerAbErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit axis ratio for i filter stack detection.
<b>iSerNu</b>	dimensionless	REAL	4	-999	Sersic (1963) fit index for i filter stack detection.
<b>iSerNuErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit index for i filter stack detection.
<b>iSerPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of Sersic (1963) fit for i filter stack detection.
<b>iSerPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of Sersic (1963) fit for i filter stack detection.
<b>iSerRa</b>	degrees	FLOAT	8	-999	Right ascension of Sersic (1963) fit center for i filter stack detection.
<b>iSerDec</b>	degrees	FLOAT	8	-999	Declination of Sersic (1963) fit center for i filter stack detection.
<b>iSerRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of Sersic (1963) fit center for i filter stack detection.
<b>iSerDecErr</b>	arcsec	REAL	4	-999	Error in declination of Sersic (1963) fit center for i filter stack detection.
<b>iSerChisq</b>	dimensionless	REAL	4	-999	Sersic (1963) fit reduced chi squared for i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zSerRadius</b>	arcsec	REAL	4	-999	Sersic (1963) fit radius for z filter stack detection.
<b>zSerRadiusErr</b>	arcsec	REAL	4	-999	Error in Sersic (1963) fit radius for z filter stack detection.
<b>zSerMag</b>	AB magnitudes	REAL	4	-999	Sersic (1963) fit magnitude for z filter stack detection.
<b>zSerMagErr</b>	AB magnitudes	REAL	4	-999	Error in Sersic (1963) fit magnitude for z filter stack detection.
<b>zSerAb</b>	dimensionless	REAL	4	-999	Sersic (1963) fit axis ratio for z filter stack detection.
<b>zSerAbErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit axis ratio for z filter stack detection.
<b>zSerNu</b>	dimensionless	REAL	4	-999	Sersic (1963) fit index for z filter stack detection.
<b>zSerNuErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit index for z filter stack detection.
<b>zSerPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of Sersic (1963) fit for z filter stack detection.
<b>zSerPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of Sersic (1963) fit for z filter stack detection.
<b>zSerRa</b>	degrees	FLOAT	8	-999	Right ascension of Sersic (1963) fit center for z filter stack detection.
<b>zSerDec</b>	degrees	FLOAT	8	-999	Declination of Sersic (1963) fit center for z filter stack detection.
<b>zSerRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of Sersic (1963) fit center for z filter stack detection.
<b>zSerDecErr</b>	arcsec	REAL	4	-999	Error in declination of Sersic (1963) fit center for z filter stack detection.
<b>zSerChisq</b>	dimensionless	REAL	4	-999	Sersic (1963) fit reduced chi squared for z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.

<b>yStackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>yStackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>ySerRadius</b>	arcsec	REAL	4	-999	Sersic (1963) fit radius for y filter stack detection.
<b>ySerRadiusErr</b>	arcsec	REAL	4	-999	Error in Sersic (1963) fit radius for y filter stack detection.
<b>ySerMag</b>	AB magnitudes	REAL	4	-999	Sersic (1963) fit magnitude for y filter stack detection.
<b>ySerMagErr</b>	AB magnitudes	REAL	4	-999	Error in Sersic (1963) fit magnitude for y filter stack detection.
<b>ySerAb</b>	dimensionless	REAL	4	-999	Sersic (1963) fit axis ratio for y filter stack detection.
<b>ySerAbErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit axis ratio for y filter stack detection.
<b>ySerNu</b>	dimensionless	REAL	4	-999	Sersic (1963) fit index for y filter stack detection.
<b>ySerNuErr</b>	dimensionless	REAL	4	-999	Error in Sersic (1963) fit index for y filter stack detection.
<b>ySerPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of Sersic (1963) fit for y filter stack detection.
<b>ySerPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of Sersic (1963) fit for y filter stack detection.
<b>ySerRa</b>	degrees	FLOAT	8	-999	Right ascension of Sersic (1963) fit center for y filter stack detection.
<b>ySerDec</b>	degrees	FLOAT	8	-999	Declination of Sersic (1963) fit center for y filter stack detection.
<b>ySerRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of Sersic (1963) fit center for y filter stack detection.
<b>ySerDecErr</b>	arcsec	REAL	4	-999	Error in declination of Sersic (1963) fit center for y filter stack detection.
<b>ySerChisq</b>	dimensionless	REAL	4	-999	Sersic (1963) fit reduced chi squared for y filter stack detection.

## StackPetrosian

**Description:** Contains the Petrosian (1976) magnitudes and radii for extended sources. See **StackObjectThin** table for discussion of primary, secondary, and best detections.  
**References:** Petrosian, V. 1976, ApJL, 209, L1.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.

<b>gstackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gpetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection.
<b>gpetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection.
<b>gpetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from g filter stack detection.
<b>gpetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from g filter stack detection.
<b>gpetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 50% light
<b>gpetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 50% light
<b>gpetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 90% light
<b>gpetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 90% light
<b>gpetCf</b>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for g filter stack detection.
<b>rippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rpertRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection.
<b>rpertRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection.
<b>rpertMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from r filter stack detection.
<b>rpertMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from r filter stack detection.
<b>rpertR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 50% light
<b>rpertR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 50% light
<b>rpertR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 90% light
<b>rpertR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 90% light
<b>rpertCf</b>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for r filter stack detection.
<b>iippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ipertRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection.
<b>ipertRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection.
<b>ipertMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from i filter stack detection.

<b>ipetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from i filter stack detection.
<b>ipetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection. at 50% light
<b>ipetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection. at 50% light
<b>ipetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection. at 90% light
<b>ipetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection. at 90% light
<b>ipetCf</b>	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zpetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection.
<b>zpetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection.
<b>zpetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from z filter stack detection.
<b>zpetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from z filter stack detection.
<b>zpetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection. at 50% light
<b>zpetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection. at 50% light
<b>zpetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection. at 90% light
<b>zpetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection. at 90% light
<b>zpetCf</b>	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>ypetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection.
<b>ypetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection.
<b>ypetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from y filter stack detection.
<b>ypetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from y filter stack detection.
<b>ypetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection. at 50% light
<b>ypetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection. at 50% light
<b>ypetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection. at 90% light
<b>ypetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection. at 90% light



ypetCf	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for y filter stack detection.
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## ForcedMeanObject

**Description:** Contains the mean of single-epoch photometric information for sources detected in the stacked data, calculated as described in Magnier et al. (2013). The mean is calculated for detections associated into objects within a one arcsecond correlation radius. PSF, Kron (1980), and SDSS aperture R5 ( $r = 3.00$  arcsec), R6 ( $r = 4.63$  arcsec), and R7 ( $r = 7.43$  arcsec) apertures (Stoughton 2003) magnitudes and statistics are listed for all filters. References: Kaiser, N., Squires, G., and Broadhurst, T. 1995, ApJ, 449, 460; Kron, R. G. 1980, ApJS, 43, 305; Magnier, E. A., Schlafly, E., Finkbeiner, D., et al. 2013, ApJS, 205, 20; Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspFOid	dimensionless	BIGINT	8	NA	Unique internal PSPS forced object identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
randomForcedObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
nDetections	dimensionless	SMALLINT	2	-999	Number of single epoch detections in all filters.
batchID	dimensionless	BIGINT	8	NA	Internal database batch identifier.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.
gnTotal	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in g filter.
gnIncPSFFlux	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in PSF flux mean in g filter.
gnIncKronFlux	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in Kron (1980) flux mean in g filter.
gnIncApFlux	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in aperture flux mean in g filter.
gnIncR5	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R5 ( $r = 3.00$ arcsec) aperture flux mean in g filter.
gnIncR6	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R6 ( $r = 4.63$ arcsec) aperture flux mean in g filter.
gnIncR7	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R7 ( $r = 7.43$ arcsec) aperture flux mean in g filter.
gFSPFFlux	Janskys	REAL	4	-999	Mean PSF flux from forced single epoch g filter detections.
gFSPFFluxErr	Janskys	REAL	4	-999	Error in mean PSF flux from forced single epoch g filter detections.
gFSPFFluxStd	Janskys	REAL	4	-999	Standard deviation of PSF fluxes from forced single epoch g filter detections.
gFSPFMag	AB magnitudes	REAL	4	-999	Magnitude from mean PSF flux from forced single epoch g filter detections.
gFSPFMagErr	AB magnitudes	REAL	4	-999	Error in magnitude from mean PSF flux from forced single epoch g filter detections.
gFKronFlux	Janskys	REAL	4	-999	Mean Kron (1980) flux from forced single epoch g filter detections.
gFKronFluxErr	Janskys	REAL	4	-999	Error in mean Kron (1980) flux from forced single epoch g filter detections.

<b>gFKronFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of Kron (198) fluxes from forced single epoch g filter detections.
<b>gFKronMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean Kron (1980) flux from forced single epoch g filter detections.
<b>gFKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean Kron (1980) flux from forced single epoch g filter detections.
<b>gFAPFlux</b>	Janskys	REAL	4	-999	Mean aperture flux from forced single epoch g filter detections.
<b>gFAPFluxErr</b>	Janskys	REAL	4	-999	Error in mean aperture flux from forced single epoch g filter detections.
<b>gFAPFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of aperture fluxes from forced single epoch g filter detections.
<b>gFAPMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean aperture flux from forced single epoch g filter detections.
<b>gFAPMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean aperture flux from forced single epoch g filter detections.
<b>gFmeanfluxR5</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch g filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanfluxR5Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch g filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanfluxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch g filter detection fluxes within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanfluxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch g filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanMagR5</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanMagR5Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>gFmeanfluxR6</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch g filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanfluxR6Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch g filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanfluxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch g filter detection fluxes within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanfluxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch g filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanMagR6</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanMagR6Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>gFmeanfluxR7</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch g filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>gFmeanfluxR7Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch g filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>gFmeanfluxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch g filter detection fluxes within an aperture of radius $r = 7.43$ arcsec.
<b>gFmeanfluxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch g filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>gFmeanMagR7</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>gFmeanMagR7Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch g filter detections within an aperture of radius $r = 7.43$ arcsec.

<b>gFlags</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry from forced single epoch g filter detections. Values listed in ObjectInfoFlags.
<b>gE1</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e1 = (M_{xx} - M_{yy}) / (M_{xx} + M_{yy})$ from forced single epoch g filter detections.
<b>gE2</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e2 = (2 M_{xy}) / (M_{xx} + M_{yy})$ from forced single epoch g filter detections.
<b>rnTotal</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in r filter.
<b>rnIncPSF Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in PSF flux mean in r filter.
<b>rnIncKron Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in Kron (1980) flux mean in r filter.
<b>rnIncAp Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in aperture flux mean in r filter.
<b>rnIncR5</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R5 ( $r = 3.00$ arcsec) aperture flux mean in r filter.
<b>rnIncR6</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R6 ( $r = 4.63$ arcsec) aperture flux mean in r filter.
<b>rnIncR7</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R7 ( $r = 7.43$ arcsec) aperture flux mean in r filter.
<b>rFPSFFlux</b>	Janskys	REAL	4	-999	Mean PSF flux from forced single epoch r filter detections.
<b>rFPSFFluxErr</b>	Janskys	REAL	4	-999	Error in mean PSF flux from forced single epoch r filter detections.
<b>rFPSFFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of PSF fluxes from forced single epoch r filter detections.
<b>rFPSFMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean PSF flux from forced single epoch r filter detections.
<b>rFPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean PSF flux from forced single epoch r filter detections.
<b>rFKronFlux</b>	Janskys	REAL	4	-999	Mean Kron (1980) flux from forced single epoch r filter detections.
<b>rFKronFluxErr</b>	Janskys	REAL	4	-999	Error in mean Kron (1980) flux from forced single epoch r filter detections.
<b>rFKronFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of Kron (198) fluxes from forced single epoch r filter detections.
<b>rFKronMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean Kron (1980) flux from forced single epoch r filter detections.
<b>rFKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean Kron (1980) flux from forced single epoch r filter detections.
<b>rFApFlux</b>	Janskys	REAL	4	-999	Mean aperture flux from forced single epoch r filter detections.
<b>rFApFluxErr</b>	Janskys	REAL	4	-999	Error in mean aperture flux from forced single epoch r filter detections.
<b>rFApFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of aperture fluxes from forced single epoch g filter detections.
<b>rFApMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean aperture flux from forced single epoch r filter detections.
<b>rFApMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean aperture flux from forced single epoch r filter detections.
<b>rFmeanfluxR5</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch r filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>rFmeanfluxR5Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch r filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>rFmeanfluxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch r filter detection fluxes within an aperture of radius $r = 3.00$ arcsec.

<b>rFmeanfluxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch r filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>rFmeanMagR5</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>rFmeanMagR5Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>rFmeanfluxR6</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch r filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanfluxR6Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch r filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanfluxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch r filter detection fluxes within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanfluxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch r filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanMagR6</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanMagR6Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>rFmeanfluxR7</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch r filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>rFmeanfluxR7Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch r filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>rFmeanfluxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch r filter detection fluxes within an aperture of radius $r = 7.43$ arcsec.
<b>rFmeanfluxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch r filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>rFmeanMagR7</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>rFmeanMagR7Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch r filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>rFlags</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry from forced single epoch r filter detections. Values listed in ObjectInfoFlags.
<b>rE1</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e1 = (M_{xx} - M_{yy}) / (M_{xx} + M_{yy})$ from forced single epoch r filter detections.
<b>rE2</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e2 = (2 M_{xy}) / (M_{xx} + M_{yy})$ from forced single epoch r filter detections.
<b>inTotal</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in i filter.
<b>inIncPSF Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in PSF flux mean in i filter.
<b>inIncKron Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in Kron (1980) flux mean in i filter.
<b>inIncAp Flux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in aperture flux mean in i filter.
<b>inIncR5</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R5 ( $r = 3.00$ arcsec) aperture flux mean in i filter.
<b>inIncR6</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R6 ( $r = 4.63$ arcsec) aperture flux mean in i filter.
<b>inIncR7</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R7 ( $r = 7.43$ arcsec) aperture flux mean in i filter.
<b>iFPSFFlux</b>	Janskys	REAL	4	-999	Mean PSF flux from forced single epoch i filter detections.
<b>iFPSFFluxErr</b>	Janskys	REAL	4	-999	Error in mean PSF flux from forced single epoch i filter detections.
<b>iFPSFFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of PSF fluxes from forced single epoch i filter detections.

<b>iFPSFMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean PSF flux from forced single epoch i filter detections.
<b>iFPSMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean PSF flux from forced single epoch i filter detections.
<b>iFKronFlux</b>	Janskys	REAL	4	-999	Mean Kron (1980) flux from forced single epoch i filter detections.
<b>iFKronFluxErr</b>	Janskys	REAL	4	-999	Error in mean Kron (1980) flux from forced single epoch i filter detections.
<b>iFKronFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of Kron (198) fluxes from forced single epoch i filter detections.
<b>iFKronMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean Kron (1980) flux from forced single epoch i filter detections.
<b>iFKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean Kron (1980) flux from forced single epoch i filter detections.
<b>iFApFlux</b>	Janskys	REAL	4	-999	Mean aperture flux from forced single epoch i filter detections.
<b>iFApFluxErr</b>	Janskys	REAL	4	-999	Error in mean aperture flux from forced single epoch i filter detections.
<b>iFApFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of aperture fluxes from forced single epoch i filter detections.
<b>iFApMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean aperture flux from forced single epoch i filter detections.
<b>iFApMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean aperture flux from forced single epoch i filter detections.
<b>iFmeanfluxR5</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch i filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanfluxR5Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch i filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanfluxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch i filter detection fluxes within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanfluxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch i filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanMagR5</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanMagR5Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>iFmeanfluxR6</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch i filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanfluxR6Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch i filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanfluxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch i filter detection fluxes within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanfluxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch i filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanMagR6</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanMagR6Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>iFmeanfluxR7</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch i filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>iFmeanfluxR7Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch i filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>iFmeanfluxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch i filter detection fluxes within an aperture of radius $r = 7.43$ arcsec.

<b>iFmeanFluxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch i filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>iFmeanMagR7</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>iFmeanMagR7Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch i filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>iFlags</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry from forced single epoch i filter detections. Values listed in ObjectInfoFlags.
<b>iE1</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e1 = (M_{xx} - M_{yy}) / (M_{xx} + M_{yy})$ from forced single epoch i filter detections.
<b>iE2</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e2 = (2 M_{xy}) / (M_{xx} + M_{yy})$ from forced single epoch i filter detections.
<b>znTotal</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in z filter.
<b>znIncPSFFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in PSF flux mean in z filter.
<b>znIncKronFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in Kron (1980) flux mean in z filter.
<b>znIncApFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in aperture flux mean in z filter.
<b>znIncR5</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R5 ( $r = 3.00$ arcsec) aperture flux mean in z filter.
<b>znIncR6</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R6 ( $r = 4.63$ arcsec) aperture flux mean in z filter.
<b>znIncR7</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R7 ( $r = 7.43$ arcsec) aperture flux mean in z filter.
<b>zFPSFFlux</b>	Janskys	REAL	4	-999	Mean PSF flux from forced single epoch z filter detections.
<b>zFPSFFluxErr</b>	Janskys	REAL	4	-999	Error in mean PSF flux from forced single epoch z filter detections.
<b>zFPSFFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of PSF fluxes from forced single epoch z filter detections.
<b>zFPSFMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean PSF flux from forced single epoch z filter detections.
<b>zFPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean PSF flux from forced single epoch z filter detections.
<b>zFKronFlux</b>	Janskys	REAL	4	-999	Mean Kron (1980) flux from forced single epoch z filter detections.
<b>zFKronFluxErr</b>	Janskys	REAL	4	-999	Error in mean Kron (1980) flux from forced single epoch z filter detections.
<b>zFKronFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of Kron (198) fluxes from forced single epoch z filter detections.
<b>zFKronMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean Kron (1980) flux from forced single epoch z filter detections.
<b>zFKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean Kron (1980) flux from forced single epoch z filter detections.
<b>zFApFlux</b>	Janskys	REAL	4	-999	Mean aperture flux from forced single epoch z filter detections.
<b>zFApFluxErr</b>	Janskys	REAL	4	-999	Error in mean aperture flux from forced single epoch z filter detections.
<b>zFApFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of aperture fluxes from forced single epoch z filter detections.
<b>zFApMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean aperture flux from forced single epoch z filter detections.

<b>zFapMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean aperture flux from forced single epoch z filter detections.
<b>zFmeanfluxR5</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch z filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanfluxR5Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch z filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanfluxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch z filter detection fluxes within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanfluxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch z filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanMagR5</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanMagR5Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>zFmeanfluxR6</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch z filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanfluxR6Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch z filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanfluxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch z filter detection fluxes within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanfluxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch z filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanMagR6</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanMagR6Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>zFmeanfluxR7</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch z filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>zFmeanfluxR7Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch z filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>zFmeanfluxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch z filter detection fluxes within an aperture of radius $r = 7.43$ arcsec.
<b>zFmeanfluxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch z filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>zFmeanMagR7</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>zFmeanMagR7Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch z filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>zFlags</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry from forced single epoch z filter detections. Values listed in ObjectInfoFlags.
<b>zE1</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e1 = (M_{xx} - M_{yy}) / (M_{xx} + M_{yy})$ from forced single epoch z filter detections.
<b>zE2</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e2 = (2 M_{xy}) / (M_{xx} + M_{yy})$ from forced single epoch z filter detections.
<b>ynTotal</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in y filter.
<b>ynIncPSFFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in PSF flux mean in y filter.
<b>ynIncKronFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in Kron (1980) flux mean in y filter.
<b>ynIncApFlux</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in aperture flux mean in y filter.
<b>ynIncR5</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R5 ( $r = 3.00$ arcsec) aperture flux mean in y filter.

<b>ynIncr6</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R6 ( $r = 4.63$ arcsec) aperture flux mean in y filter.
<b>ynIncr7</b>	dimensionless	SMALLINT	2	-999	Number of forced single epoch detections in R7 ( $r = 7.43$ arcsec) aperture flux mean in y filter.
<b>yFPSFFIux</b>	Janskys	REAL	4	-999	Mean PSF flux from forced single epoch y filter detections.
<b>yFPSFFIuxErr</b>	Janskys	REAL	4	-999	Error in mean PSF flux from forced single epoch y filter detections.
<b>yFPSFFIuxStd</b>	Janskys	REAL	4	-999	Standard deviation of PSF fluxes from forced single epoch y filter detections.
<b>yFPSFMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean PSF flux from forced single epoch y filter detections.
<b>yFPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean PSF flux from forced single epoch y filter detections.
<b>yFKronFIux</b>	Janskys	REAL	4	-999	Mean Kron (1980) flux from forced single epoch y filter detections.
<b>yFKronFIuxErr</b>	Janskys	REAL	4	-999	Error in mean Kron (1980) flux from forced single epoch y filter detections.
<b>yFKronFIuxStd</b>	Janskys	REAL	4	-999	Standard deviation of Kron (198) fluxes from forced single epoch y filter detections.
<b>yFKronMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean Kron (1980) flux from forced single epoch y filter detections.
<b>yFKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean Kron (1980) flux from forced single epoch y filter detections.
<b>yFApFlux</b>	Janskys	REAL	4	-999	Mean aperture flux from forced single epoch y filter detections.
<b>yFApFluxErr</b>	Janskys	REAL	4	-999	Error in mean aperture flux from forced single epoch y filter detections.
<b>yFApFluxStd</b>	Janskys	REAL	4	-999	Standard deviation of aperture fluxes from forced single epoch y filter detections.
<b>yFApMag</b>	AB magnitudes	REAL	4	-999	Magnitude from mean aperture flux from forced single epoch y filter detections.
<b>yFApMagErr</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean aperture flux from forced single epoch y filter detections.
<b>yFmeanfluxR5</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch y filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanfluxR5Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch y filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanfluxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch y filter detection fluxes within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanfluxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch y filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanMagR5</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanMagR5Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 3.00$ arcsec.
<b>yFmeanfluxR6</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch y filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>yFmeanfluxR6Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch y filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>yFmeanfluxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch y filter detection fluxes within an aperture of radius $r = 4.63$ arcsec.
<b>yFmeanfluxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch y filter detections within an aperture of radius $r = 4.63$ arcsec.



<b>yFmeanMagR6</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>yFmeanMagR6Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 4.63$ arcsec.
<b>yFmeanfluxR7</b>	Janskys	REAL	4	-999	Mean flux from forced single epoch y filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>yFmeanfluxR7Err</b>	Janskys	REAL	4	-999	Error in mean flux from forced single epoch y filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>yFmeanfluxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of forced single epoch y filter detection fluxes within an aperture of radius $r = 7.43$ arcsec.
<b>yFmeanfluxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced single epoch y filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>yFmeanMagR7</b>	AB magnitudes	REAL	4	-999	Magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>yFmeanMagR7Err</b>	AB magnitudes	REAL	4	-999	Error in magnitude from mean flux from forced single epoch y filter detections within an aperture of radius $r = 7.43$ arcsec.
<b>yFlags</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry from forced single epoch y filter detections. Values listed in ObjectInfoFlags.
<b>yE1</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e1 = (M_{xx} - M_{yy}) / (M_{xx} + M_{yy})$ from forced single epoch y filter detections.
<b>yE2</b>	dimensionless	REAL	4	-999	Kaiser et al. (1995) polarization parameter $e2 = (2 M_{xy}) / (M_{xx} + M_{yy})$ from forced single epoch y filter detections.

## ForcedMeanLensing

**Description:** Contains the mean Kaiser et al. (1995) lensing parameters measured from the forced photometry of objects detected in stacked images on the individual single epoch data.  
**References:** Kaiser, N., Squires, G., and Broadhurst, T. 1995, ApJ, 449, 460.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPSFOID</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS forced object identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomForcedObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>nDetections</b>	dimensionless	SMALLINT	2	-999	Number of single epoch detections in all filters.
<b>batchID</b>	dimensionless	BIGINT	8	NA	Internal database batch identifier.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.
<b>gLensObjSmearX11</b>	arcsec <sup>^2</sup>	REAL	4	-999	Kaiser et al. (1995) equation (A11) smear polarizability X11 term from forced g filter detections.
<b>gLensObjSmearX12</b>	arcsec <sup>^2</sup>	REAL	4	-999	Kaiser et al. (1995) equation (A11) smear polarizability X12 term from forced g filter detections.
<b>gLensObjSmearX22</b>	arcsec <sup>^2</sup>	REAL	4	-999	Kaiser et al. (1995) equation (A11) smear polarizability X22 term from forced g filter detections.
<b>gLensObjSmearE1</b>	arcsec <sup>^2</sup>	REAL	4	-999	Kaiser et al. (1995) equation (A12) smear polarizability e1 term from forced g filter detections.







<b>yLensPSF SmearE2</b>	arcsec ^-2	REAL	4	-999	Kaiser et al. (1995) equation (A12) smear polarizability e2 term from PSF model for forced y filter detections.
<b>yLensPSF ShearX11</b>	dimens ionless	REAL	4	-999	Kaiser et al. (1995) equation (B11) shear polarizability X11 term from PSF model for forced y filter detections.
<b>yLensPSF ShearX12</b>	dimens ionless	REAL	4	-999	Kaiser et al. (1995) equation (B11) shear polarizability X12 term from PSF model for forced y filter detections.
<b>yLensPSF ShearX22</b>	dimens ionless	REAL	4	-999	Kaiser et al. (1995) equation (B11) shear polarizability X22 term from PSF model for forced y filter detections.
<b>yLensPSF ShearE1</b>	dimens ionless	REAL	4	-999	Kaiser et al. (1995) equation (B12) shear polarizability e1 term from PSF model for forced y filter detections.
<b>yLensPSF ShearE2</b>	dimens ionless	REAL	4	-999	Kaiser et al. (1995) equation (B12) shear polarizability e2 term from PSF model forced y filter detections.

## Tables included in DR2

These tables were not included in DR1 but are in the DR2 database.

## Detection

**Description: Contains single epoch photometry of individual detections from a single exposure. The identifiers connecting the detection back to the original image and to the object association are provided. PSF, aperture, and Kron (1980) photometry are included, along with sky and detector coordinate positions. References: Kron, R. G. 1980, ApJS, 43, 305.**

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimens ionless	BIGINT	8	NA	Unique object identifier.
<b>uniqueP spsP2id</b>	dimens ionless	BIGINT	8	NA	Unique internal PPS detection identifier.
<b>detectID</b>	dimens ionless	BIGINT	8	NA	Unique detection identifier.
<b>ippObjID</b>	dimens ionless	BIGINT	8	NA	IPP internal object identifier.
<b>ippDete ctID</b>	dimens ionless	BIGINT	8	NA	IPP internal detection identifier.
<b>filterID</b>	dimens ionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
<b>surveyID</b>	dimens ionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>imageID</b>	dimens ionless	BIGINT	8	NA	Unique image identifier. Constructed as (100 * frameID + ccdID).
<b>random DetID</b>	dimens ionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>dvoRegi onID</b>	dimens ionless	INT	4	-1	Internal DVO region identifier.
<b>obsTime</b>	days	FLOAT	8	-999	Modified Julian Date at the midpoint of the observation. Note these are international atomic time rather than UTC, so if you want UTC times you will need to add 34 or 35 seconds to correct for leap seconds.
<b>xPos</b>	raw pixels	REAL	4	-999	PSF x center location.
<b>yPos</b>	raw pixels	REAL	4	-999	PSF y center location.
<b>xPosErr</b>	raw pixels	REAL	4	-999	Error in PSF x center location.
<b>yPosErr</b>	raw pixels	REAL	4	-999	Error in PSF y center location.

<b>pltScale</b>	arcsec /pixel	REAL	4	-999	Local plate scale at this location.
<b>posAngle</b>	degrees	REAL	4	-999	Position angle (sky-to-chip) at this location.
<b>ra</b>	degrees	FLOAT	8	-999	Right ascension.
<b>dec</b>	degrees	FLOAT	8	-999	Declination.
<b>raErr</b>	arcsec	REAL	4	-999	Right ascension error.
<b>decErr</b>	arcsec	REAL	4	-999	Declination error.
<b>extNSigma</b>	dimensionless	REAL	4	0	An extendedness measure based on the deviation between PSF and Kron (1980) magnitudes, normalized by the PSF magnitude uncertainty.
<b>zp</b>	magnitudes	REAL	4	0	Photometric zeropoint. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>telluricExt</b>	magnitudes	REAL	4	NA	Estimated Telluric extinction due to non-photometric observing conditions. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>expTime</b>	seconds	REAL	4	-999	Exposure time of the frame/exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>airMass</b>	dimensionless	REAL	4	0	Airmass at midpoint of the exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>psfFlux</b>	Janskys	REAL	4	-999	Flux from PSF fit.
<b>psfFluxErr</b>	Janskys	REAL	4	-999	Error on flux from PSF fit.
<b>psfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM.
<b>psfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM.
<b>psfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation.
<b>psfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>psfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor.
<b>psfQfPerfect</b>	dimensionless	REAL	4	-999	PSF weighted fraction of pixels totally unmasked.
<b>psfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit.
<b>psfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this detection is best fit by a PSF.
<b>momentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> .
<b>momentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> .
<b>momentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> .
<b>momentR1</b>	arcsec	REAL	4	-999	First radial moment.
<b>momentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting).
<b>momentM3C</b>	arcsec <sup>2</sup>	REAL	4	-999	Cosine of trefoil second moment term: $r^2 \cos(3 \theta) = M_{xxx} - 3 * M_{xyy}$ .
<b>momentM3S</b>	arcsec <sup>2</sup>	REAL	4	-999	Sine of trefoil second moment: $r^2 \sin(3 \theta) = 3 * M_{xxy} - M_{yyy}$ .
<b>momentM4C</b>	arcsec <sup>2</sup>	REAL	4	-999	Cosine of quadrupole second moment: $r^2 \cos(4 \theta) = M_{xxxx} - 6 * M_{xxyy} + M_{yyyy}$ .
<b>momentM4S</b>	arcsec <sup>2</sup>	REAL	4	-999	Sine of quadrupole second moment: $r^2 \sin(4 \theta) = 4 * M_{xxyy} - 4 * M_{yyyy}$ .
<b>apFlux</b>	Janskys	REAL	4	-999	Flux in seeing-dependent aperture.

<b>apFluxErr</b>	Janskys	REAL	4	-999	Error on flux in seeing-dependent aperture.
<b>apFillF</b>	dimensionless	REAL	4	-999	Aperture fill factor.
<b>apRadius</b>	arcsec	REAL	4	-999	Aperture radius.
<b>kronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux.
<b>kronFluxErr</b>	Janskys	REAL	4	-999	Error on Kron (1980) flux.
<b>kronRad</b>	arcsec	REAL	4	-999	Kron (1980) radius.
<b>sky</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Background sky level.
<b>skyErr</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Error in background sky level.
<b>infoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags.
<b>infoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags2.
<b>infoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags3.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.

## ForcedWarpMeasurement

**Description: Contains single epoch forced photometry of individual measurements of objects detected in the stacked images. The identifiers connecting the measurement back to the original image and to the object association are provided. PSF, aperture, and Kron (1980) photometry are included, along with sky and detector coordinate positions. References: Kron, R. G. 1980, ApJS, 43, 305.**

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspFWid</b>	dimensionless	BIGINT	8	NA	Unique internal PPSF forced warp identifier.
<b>detectID</b>	dimensionless	BIGINT	8	NA	Unique detection identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>ippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>filterID</b>	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>forcedSummaryID</b>	dimensionless	BIGINT	8	NA	Unique forced warp summary identifier.
<b>forcedWarpID</b>	dimensionless	BIGINT	8	NA	Unique forced warp identifier.
<b>randomWarpID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.

<b>projectonID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	TINYINT	1	255	Skycell region identifier.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>obsTime</b>	days	FLOAT	8	-999	Modified Julian Date at the midpoint of the observation. Note these are international atomic time rather than UTC, so if you want UTC times you will need to add 34 or 35 seconds to correct for leap seconds.
<b>zp</b>	magnitudes	REAL	4	0	Photometric zeropoint. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>telluricExt</b>	magnitudes	REAL	4	NA	Estimated Telluric extinction due to non-photometric observing conditions. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>expTime</b>	seconds	REAL	4	-999	Exposure time of the frame/exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>airMass</b>	dimensionless	REAL	4	0	Airmass at midpoint of the exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>FpsfFlux</b>	Janskys	REAL	4	-999	PSF flux.
<b>FpsfFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux.
<b>xPosChip</b>	raw pixels	REAL	4	-999	PSF x position in original chip pixels.
<b>yPosChip</b>	raw pixels	REAL	4	-999	PSF y position in original chip pixels.
<b>FccdID</b>	dimensionless	SMALLINT	2	-999	OTA identifier of original chip (see ImageMeta).
<b>FpsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM.
<b>FpsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM.
<b>FpsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation.
<b>FpsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>FpsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor.
<b>FpsfQfPercent</b>	dimensionless	REAL	4	-999	PSF weighted fraction of pixels totally unmasked.
<b>FpsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit.
<b>FmomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> .
<b>FmomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> .
<b>FmomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> .
<b>FmomentR1</b>	arcsec	REAL	4	-999	First radial moment.
<b>FmomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting).
<b>FmomentM3C</b>	arcsec <sup>2</sup>	REAL	4	-999	Cosine of trefoil second moment term: $r^2 \cos(3 \theta) = M_{xxx} - 3 * M_{xyy}$ .
<b>FmomentM3S</b>	arcsec <sup>2</sup>	REAL	4	-999	Sine of trefoil second moment: $r^2 \sin(3 \theta) = 3 * M_{xxy} - M_{yyy}$ .
<b>FmomentM4C</b>	arcsec <sup>2</sup>	REAL	4	-999	Cosine of quadrupole second moment: $r^2 \cos(4 \theta) = M_{xxxx} - 6 * M_{xxyy} + M_{yyyy}$ .
<b>FmomentM4S</b>	arcsec <sup>2</sup>	REAL	4	-999	Sine of quadrupole second moment: $r^2 \sin(4 \theta) = 4 * M_{xxyy} - 4 * M_{yyyy}$ .



<b>FapFlux</b>	Janskys	REAL	4	-999	Aperture flux.
<b>FapFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux.
<b>FapFillF</b>	dimensionless	REAL	4	-999	Aperture fill factor.
<b>FapRadius</b>	arcsec	REAL	4	-999	Aperture radius for forced warp detection.
<b>FkronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux.
<b>FkronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux.
<b>FkronRad</b>	arcsec	REAL	4	-999	Kron (1980) radius.
<b>Fsky</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Background sky level.
<b>FskyErr</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Error in background sky level.
<b>FinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags.
<b>FinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags2.
<b>FinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags3.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.

## ForcedWarpExtended

**Description:** Contains the single epoch forced photometry fluxes within the SDSS R5 ( $r = 3.00$  arcsec), R6 ( $r = 4.63$  arcsec), and R7 ( $r = 7.43$  arcsec) apertures (Stoughton 2003) for objects detected in the stacked images. References: Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2003, AJ, 123, 485.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPSFWID</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS forced warp identifier.
<b>detectID</b>	dimensionless	BIGINT	8	NA	Unique detection identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>ippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>filterID</b>	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>forcedWarpID</b>	dimensionless	BIGINT	8	NA	Unique forced warp identifier.
<b>randomWarpID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.

<b>projectID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	TINYINT	1	255	Skycell region identifier.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>obsTime</b>	days	FLOAT	8	-999	Modified Julian Date at the midpoint of the observation. Note these are international atomic time rather than UTC, so if you want UTC times you will need to add 34 or 35 seconds to correct for leap seconds.
<b>flxR5</b>	Janskys	REAL	4	-999	Flux from forced photometry measurement within an aperture of radius $r = 3.00$ arcsec.
<b>flxR5Err</b>	Janskys	REAL	4	-999	Error in flux from forced photometry measurement within an aperture of radius $r = 3.00$ arcsec.
<b>flxR5Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from forced photometry measurement within an aperture of radius $r = 3.00$ arcsec.
<b>flxR5Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced photometry measurement within an aperture of radius $r = 3.00$ arcsec.
<b>flxR6</b>	Janskys	REAL	4	-999	Flux from forced photometry measurement within an aperture of radius $r = 4.63$ arcsec.
<b>flxR6Err</b>	Janskys	REAL	4	-999	Error in flux from forced photometry measurement within an aperture of radius $r = 4.63$ arcsec.
<b>flxR6Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from forced photometry measurement within an aperture of radius $r = 4.63$ arcsec.
<b>flxR6Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced photometry measurement within an aperture of radius $r = 4.63$ arcsec.
<b>flxR7</b>	Janskys	REAL	4	-999	Flux from forced photometry measurement within an aperture of radius $r = 7.43$ arcsec.
<b>flxR7Err</b>	Janskys	REAL	4	-999	Error in flux from forced photometry measurement within an aperture of radius $r = 7.43$ arcsec.
<b>flxR7Std</b>	Janskys	REAL	4	-999	Standard deviation of flux from forced photometry measurement within an aperture of radius $r = 7.43$ arcsec.
<b>flxR7Fill</b>	dimensionless	REAL	4	-999	Aperture fill factor for forced photometry measurement within an aperture of radius $r = 7.43$ arcsec.

## ForcedWarpMasked

**Description:** Contains an entry for objects detected in the stacked images which were in the footprint of a single epoch exposure, but for which there are no unmasked pixels at that epoch.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspFWid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS forced warp identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>ippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>filterID</b>	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>forcedSummaryID</b>	dimensionless	BIGINT	8	NA	Forced warp summary meta identifier
<b>forcedWarpID</b>	dimensionless	BIGINT	8	NA	Unique forced warp identifier.

<b>randomWarpID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
<b>projectionID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	REAL	4	-999	Skycell region identifier.
<b>dvoRegionID</b>	dimensionless	REAL	4	-999	Internal DVO region identifier.
<b>obsTime</b>	days	FLOAT	8	-999	Modified Julian Date at the midpoint of the observation. Note these are international atomic time rather than UTC, so if you want UTC times you will need to add 34 or 35 seconds to correct for leap seconds.

## ForcedGalaxyShape

**Description:** Contains the extended source galaxy shape parameters. All filters are matched into a single row. The positions, magnitudes, fluxes, and Sersic indices are inherited from their parent measurement in the StackModelFit tables, and are reproduced here for convenience. The major and minor axes and orientation are recalculated on a warp-by-warp basis from the best fit given these inherited properties. References: Sersic, J. L. 1963, Boletin de la Asociacion Argentina de Astronomia La Plata Argentina, 6, 41.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspFGid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS forced galaxy identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>randomForcedGalID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>galModelType</b>	dimensionless	TINYINT	1	-999	Galaxy model identifier.
<b>nFilter</b>	dimensionless	TINYINT	1	-999	Number of filters with valid model measurements.
<b>gippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for the g filter stack that was the original detection source.
<b>gGalMajor</b>	arcsec	REAL	4	-999	Galaxy major axis for g filter measurement.
<b>gGalMajorErr</b>	arcsec	REAL	4	-999	Error in galaxy major axis for g filter measurement.
<b>gGalMinor</b>	arcsec	REAL	4	-999	Galaxy minor axis for g filter measurement.
<b>gGalMinorErr</b>	arcsec	REAL	4	-999	Error in galaxy minor axis for g filter measurement.
<b>gGalMag</b>	AB magnitudes	REAL	4	-999	Galaxy fit magnitude for g filter measurement.
<b>gGalMagErr</b>	AB magnitudes	REAL	4	-999	Error in galaxy fit magnitude for g filter measurement.
<b>gGalPhi</b>	degrees	REAL	4	-999	Major axis position angle of the model fit for the g filter measurement.
<b>gGalIndex</b>	dimensionless	REAL	4	-999	Sersic index of the model fit for the g filter measurement.

<b>gGalFlags</b>	dimensionless	SMALLINT	2	-999	Analysis flags for the galaxy model chi-square fit (g filter measurement, values defined in ForcedGalaxyShapeFlags).
<b>gGalChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value for g filter measurement.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for the r filter stack that was the original detection source.
<b>rGalMajor</b>	arcsec	REAL	4	-999	Galaxy major axis for r filter measurement.
<b>rGalMajorErr</b>	arcsec	REAL	4	-999	Error in galaxy major axis for r filter measurement.
<b>rGalMinor</b>	arcsec	REAL	4	-999	Galaxy minor axis for r filter measurement.
<b>rGalMinorErr</b>	arcsec	REAL	4	-999	Error in galaxy minor axis for r filter measurement.
<b>rGalMag</b>	AB magnitudes	REAL	4	-999	Galaxy fit magnitude for r filter measurement.
<b>rGalMagErr</b>	AB magnitudes	REAL	4	-999	Error in galaxy fit magnitude for r filter measurement.
<b>rGalPhi</b>	degrees	REAL	4	-999	Major axis position angle of the model fit for the r filter measurement.
<b>rGalIndex</b>	dimensionless	REAL	4	-999	Sersic index of the model fit for the r filter measurement.
<b>rGalFlags</b>	dimensionless	SMALLINT	2	-999	Analysis flags for the galaxy model chi-square fit (r filter measurement, values defined in ForcedGalaxyShapeFlags).
<b>rGalChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value for r filter measurement.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for the i filter stack that was the original detection source.
<b>iGalMajor</b>	arcsec	REAL	4	-999	Galaxy major axis for i filter measurement.
<b>iGalMajorErr</b>	arcsec	REAL	4	-999	Error in galaxy major axis for i filter measurement.
<b>iGalMinor</b>	arcsec	REAL	4	-999	Galaxy minor axis for i filter measurement.
<b>iGalMinorErr</b>	arcsec	REAL	4	-999	Error in galaxy minor axis for i filter measurement.
<b>iGalMag</b>	AB magnitudes	REAL	4	-999	Galaxy fit magnitude for i filter measurement.
<b>iGalMagErr</b>	AB magnitudes	REAL	4	-999	Error in galaxy fit magnitude for i filter measurement.
<b>iGalPhi</b>	degrees	REAL	4	-999	Major axis position angle of the model fit for the i filter measurement.
<b>iGalIndex</b>	dimensionless	REAL	4	-999	Sersic index of the model fit for the i filter measurement.
<b>iGalFlags</b>	dimensionless	SMALLINT	2	-999	Analysis flags for the galaxy model chi-square fit (i filter measurement, values defined in ForcedGalaxyShapeFlags).
<b>iGalChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value for i filter measurement.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for the z filter stack that was the original detection source.
<b>zGalMajor</b>	arcsec	REAL	4	-999	Galaxy major axis for z filter measurement.

<b>zGalMajorErr</b>	arcsec	REAL	4	-999	Error in galaxy major axis for z filter measurement.
<b>zGalMinor</b>	arcsec	REAL	4	-999	Galaxy minor axis for z filter measurement.
<b>zGalMinorErr</b>	arcsec	REAL	4	-999	Error in galaxy minor axis for z filter measurement.
<b>zGalMag</b>	AB magnitudes	REAL	4	-999	Galaxy fit magnitude for z filter measurement.
<b>zGalMagErr</b>	AB magnitudes	REAL	4	-999	Error in galaxy fit magnitude for z filter measurement.
<b>zGalPhi</b>	degrees	REAL	4	-999	Major axis position angle of the model fit for the z filter measurement.
<b>zGalIndex</b>	dimensionless	REAL	4	-999	Sersic index of the model fit for the z filter measurement.
<b>zGalFlags</b>	dimensionless	SMALLINT	2	-999	Analysis flags for the galaxy model chi-square fit (z filter measurement, values defined in ForcedGalaxyShapeFlags).
<b>zGalChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value for z filter measurement.
<b>yippDetectionID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for the z filter stack that was the original detection source.
<b>yGalMajor</b>	arcsec	REAL	4	-999	Galaxy major axis for y filter measurement.
<b>yGalMajorErr</b>	arcsec	REAL	4	-999	Error in galaxy major axis for y filter measurement.
<b>yGalMinor</b>	arcsec	REAL	4	-999	Galaxy minor axis for y filter measurement.
<b>yGalMinorErr</b>	arcsec	REAL	4	-999	Error in galaxy minor axis for y filter measurement.
<b>yGalMag</b>	AB magnitudes	REAL	4	-999	Galaxy fit magnitude for y filter measurement.
<b>yGalMagErr</b>	AB magnitudes	REAL	4	-999	Error in galaxy fit magnitude for y filter measurement.
<b>yGalPhi</b>	degrees	REAL	4	-999	Major axis position angle of the model fit for the y filter measurement.
<b>yGalIndex</b>	dimensionless	REAL	4	-999	Sersic index of the model fit for the y filter measurement.
<b>yGalFlags</b>	dimensionless	SMALLINT	2	-999	Analysis flags for the galaxy model chi-square fit (y filter measurement, values defined in ForcedGalaxyShapeFlags).
<b>yGalChisq</b>	dimensionless	REAL	4	-999	Reduced chi squared value for y filter measurement.

## StackModelFitExtra

**Description:** Contains the galaxy shape and concentration parameters measured from the stack detections. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Blakeslee, J. P., Holden, B. P., Franx, M., et al. 2006, ApJ, 644, 30; Cheng, J. Y., Faber, S. M., Schade, D., Lilly, S. J., Crampton, D., et al. 1995, ApJL, 451, L1; Simard, L., et al. 2011, MNRAS, 412, 727; Simard, L., Willmer, C. N. A., Vogt, N. P., et al. 2003, ApJS, 142, 1.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePSPSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.

<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gS2</b>	dimensionless	REAL	4	-999	Smoothness parameter s2 from g filter stack detection (Cheng 2011; Simard 2003).
<b>glogRT</b>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>glogRA</b>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>gbumpy</b>	dimensionless	REAL	4	-999	Bumpiness parameter from g filter stack detection (Blakeslee 2006).
<b>ghalfLightRad</b>	arcsec	REAL	4	-999	Half-light radius from g filter stack detection.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rS2</b>	dimensionless	REAL	4	-999	Smoothness parameter s2 from r filter stack detection (Cheng 2011; Simard 2003).
<b>rlogRT</b>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>rlogRA</b>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>rbumpy</b>	dimensionless	REAL	4	-999	Bumpiness parameter from r filter stack detection (Blakeslee 2006).
<b>rhalfLightRad</b>	arcsec	REAL	4	-999	Half-light radius from r filter stack detection.
<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iS2</b>	dimensionless	REAL	4	-999	Smoothness parameter s2 from i filter stack detection (Cheng 2011; Simard 2003).
<b>ilogRT</b>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from i filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>ilogRA</b>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from i filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>ibumpy</b>	dimensionless	REAL	4	-999	Bumpiness parameter from i filter stack detection (Blakeslee 2006).
<b>ihalfLightRad</b>	arcsec	REAL	4	-999	Half-light radius from i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.

<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zS2</b>	dimensionless	REAL	4	-999	Smoothness parameter s2 from z filter stack detection (Cheng 2011; Simard 2003).
<b>zlogRT</b>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from z filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>zlogRA</b>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from z filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>zbumpy</b>	dimensionless	REAL	4	-999	Bumpiness parameter from z filter stack detection (Blakeslee 2006).
<b>zhalfLightRad</b>	arcsec	REAL	4	-999	Half-light radius from z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>yS2</b>	dimensionless	REAL	4	-999	Smoothness parameter s2 from y filter stack detection (Cheng 2011; Simard 2003).
<b>ylogRT</b>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from y filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>ylogRA</b>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from y filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<b>ybumpy</b>	dimensionless	REAL	4	-999	Bumpiness parameter from y filter stack detection (Blakeslee 2006).
<b>yhalfLightRad</b>	arcsec	REAL	4	-999	Half-light radius from y filter stack detection.

## Tables not included in DR1 or DR2

The tables below are not part of the DR1 or DR2 databases (yet), but their descriptions are included for completeness.

### DiffDetection

**Description: Contains the photometry of individual detections from a difference image. The identifiers connecting the detection back to the difference image and to the object association are provided. PSF, aperture, and Kron (1980) photometry are included, along with sky and detector coordinate positions. Statistics References: Kron, R. G. 1980, ApJS, 43, 305.**

Name	Unit	Data Type	Size	Default Value	Description
<b>diffObjID</b>	dimensionless	BIGINT	8	NA	Unique difference object identifier.
<b>uniquePspDFid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS difference detection identifier.
<b>diffDetID</b>	dimensionless	BIGINT	8	NA	Unique difference detection identifier.
<b>diffImageID</b>	dimensionless	BIGINT	8	NA	Difference detection meta identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.

<b>ippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>fromPosImage</b>	dimensionless	TINYINT	1	NA	Detection is from positive image (if 1) or negative image (if 0).
<b>filterID</b>	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>randomDiffID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>tessID</b>	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
<b>projectionID</b>	dimensionless	SMALLINT	2	-1	Projection cell identifier.
<b>skyCellID</b>	dimensionless	TINYINT	1	255	Skycell region identifier.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>obsTime</b>	days	FLOAT	8	-999	Modified Julian Date at the midpoint of the observation. Note these are international atomic time rather than UTC, so if you want UTC times you will need to add 34 or 35 seconds to correct for leap seconds.
<b>xPos</b>	sky pixels	REAL	4	-999	PSF x center location.
<b>yPos</b>	sky pixels	REAL	4	-999	PSF y center location.
<b>xPosErr</b>	sky pixels	REAL	4	-999	Error in PSF x center location.
<b>yPosErr</b>	sky pixels	REAL	4	-999	Error in PSF y center location.
<b>pltScale</b>	arcsec/pixel	REAL	4	-999	Local plate scale at this location.
<b>posAngle</b>	degrees	REAL	4	-999	Position angle (sky-to-chip) at this location.
<b>ra</b>	degrees	FLOAT	8	-999	Right ascension.
<b>dec</b>	degrees	FLOAT	8	-999	Declination.
<b>raErr</b>	arcsec	REAL	4	-999	Right ascension error.
<b>decErr</b>	arcsec	REAL	4	-999	Declination error.
<b>zp</b>	magnitudes	REAL	4	0	Photometric zeropoint. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>telluricExt</b>	magnitudes	REAL	4	NA	Estimated Telluric extinction due to non-photometric observing conditions. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>expTime</b>	seconds	REAL	4	-999	Exposure time of the positive single-epoch image. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>airMass</b>	dimensionless	REAL	4	0	Airmass at midpoint of the exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
<b>DpsfFlux</b>	Janskys	REAL	4	-999	Flux from PSF fit.
<b>DpsfFluxErr</b>	Janskys	REAL	4	-999	Error in PSF flux.
<b>xPosChip</b>	raw pixels	REAL	4	-999	PSF x position in original chip pixels.
<b>yPosChip</b>	raw pixels	REAL	4	-999	PSF y position in original chip pixels.
<b>ccdID</b>	dimensionless	SMALLINT	2	-999	OTA identifier of original chip (see ImageMeta).
<b>DpsfMajorFWHM</b>	arcsec	REAL	4	-999	PSF major axis FWHM.
<b>DpsfMinorFWHM</b>	arcsec	REAL	4	-999	PSF minor axis FWHM.



<b>DpsfTheta</b>	degrees	REAL	4	-999	PSF major axis orientation.
<b>DpsfCore</b>	dimensionless	REAL	4	-999	PSF core parameter k, where $F = F_0 / (1 + k r^2 + r^3.33)$ .
<b>DpsfQf</b>	dimensionless	REAL	4	-999	PSF coverage factor.
<b>DpsfQfPerfect</b>	dimensionless	REAL	4	-999	PSF-weighted fraction of pixels totally unmasked.
<b>DpsfChiSq</b>	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit.
<b>DpsfLikelihood</b>	dimensionless	REAL	4	-999	Likelihood that this detection is best fit by a PSF.
<b>DmomentXX</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xx</sub> .
<b>DmomentXY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>xy</sub> .
<b>DmomentYY</b>	arcsec <sup>2</sup>	REAL	4	-999	Second moment M <sub>yy</sub> .
<b>DmomentR1</b>	arcsec	REAL	4	-999	First radial moment.
<b>DmomentRH</b>	arcsec <sup>0.5</sup>	REAL	4	-999	Half radial moment (r <sup>0.5</sup> weighting).
<b>DapFlux</b>	Janskys	REAL	4	-999	Aperture flux.
<b>DapFluxErr</b>	Janskys	REAL	4	-999	Error in aperture flux.
<b>DapFillF</b>	dimensionless	REAL	4	-999	Aperture fill factor.
<b>DkronFlux</b>	Janskys	REAL	4	-999	Kron (1980) flux.
<b>DkronFluxErr</b>	Janskys	REAL	4	-999	Error in Kron (1980) flux.
<b>DkronRad</b>	arcsec	REAL	4	-999	Kron (1980) radius.
<b>diffNPos</b>	sky pixels	INT	4	-999	Number of difference pixels within the aperture that are positive.
<b>diffFPosRatio</b>	dimensionless	REAL	4	-999	Ratio of the sum of positive flux pixel values to the sum of the absolute value of all unmasked pixel within the aperture.
<b>diffNPosRatio</b>	dimensionless	REAL	4	-999	Ratio of the number of positive flux pixels to the number of unmasked pixels within the aperture.
<b>diffNPosMask</b>	dimensionless	REAL	4	-999	Ratio of the number of positive flux pixels to the number of positive or masked pixels within the aperture.
<b>diffNPosAll</b>	dimensionless	REAL	4	-999	Ratio of the number of positive flux pixels to the total number of all pixels within the aperture.
<b>diffPosDist</b>	sky pixels	REAL	4	-999	Distance to matching source in positive image.
<b>diffNegDist</b>	sky pixels	REAL	4	-999	Distance to matching source in negative image.
<b>diffPosSN</b>	dimensionless	REAL	4	-999	Signal to noise of matching source in positive image.
<b>diffNegSN</b>	dimensionless	REAL	4	-999	Signal to noise of matching source in negative image.
<b>Dsky</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Background sky level.
<b>DskyErr</b>	Janskys / arcsec <sup>2</sup>	REAL	4	-999	Error in background sky level.
<b>DinfoFlag</b>	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags.

<b>DinfoFlag2</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags2.
<b>DinfoFlag3</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags3.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.

## DiffDetObject

**Description:** Contains the positional information for difference detection objects in a number of coordinate systems. The objects associate difference detections within a one arcsecond radius. The number of detections in each filter from is listed, along with maximum coverage fractions. **References:** Szalay, A. S., Gray, J., Fekete, G., et al. 2007, arXiv:cs/0701164.

Name	Unit	Data Type	Size	Default Value	Description
<b>diffObjectName</b>	dimensionless	VARCHAR(32)	32	NA	IAU name for this object.
<b>diffObjPSOName</b>	dimensionless	VARCHAR(32)	32	NA	Alternate Pan-STARRS name for this object.
<b>diffObjAltName1</b>	dimensionless	VARCHAR(32)	32		Alternate name for this object.
<b>diffObjAltName2</b>	dimensionless	VARCHAR(32)	32		Alternate name for this object.
<b>diffObjAltName3</b>	dimensionless	VARCHAR(32)	32		Alternate name for this object.
<b>diffObjPopularName</b>	dimensionless	VARCHAR(140)	140		Well known name for this object.
<b>diffObjID</b>	dimensionless	BIGINT	8	NA	Unique difference object identifier.
<b>uniquePSPSDOID</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS difference object identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>surveyID</b>	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
<b>htmlID</b>	dimensionless	BIGINT	8	NA	Hierarchical triangular mesh (Szalay 2007) index.
<b>zoneID</b>	dimensionless	INT	4	NA	Local zone index, found by dividing the sky into bands of declination 1/2 arcminute in height: zoneID = floor((90 + declination)/0.0083333).
<b>randomDiffObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>batchID</b>	dimensionless	BIGINT	8	NA	Internal database batch identifier.
<b>dvoRegionID</b>	dimensionless	INT	4	-1	Internal DVO region identifier.
<b>objInfoFlag</b>	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in ObjectInfoFlags.
<b>qualityFlag</b>	dimensionless	TINYINT	1	0	Subset of objInfoFlag denoting whether this object is real or a likely false positive. Values listed in ObjectQualityFlags.
<b>ra</b>	degrees	FLOAT	8	-999	Right ascension mean.
<b>dec</b>	degrees	FLOAT	8	-999	Declination mean.
<b>cx</b>	dimensionless	FLOAT	8	NA	Cartesian x on a unit sphere.
<b>cy</b>	dimensionless	FLOAT	8	NA	Cartesian y on a unit sphere.

<b>cz</b>	dimensionless	FLOAT	8	NA	Cartesian z on a unit sphere.
<b>lambda</b>	degrees	FLOAT	8	-999	Ecliptic longitude.
<b>beta</b>	degrees	FLOAT	8	-999	Ecliptic latitude.
<b>l</b>	degrees	FLOAT	8	-999	Galactic longitude.
<b>b</b>	degrees	FLOAT	8	-999	Galactic latitude.
<b>gQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from g filter detections.
<b>rQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from r filter detections.
<b>iQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from i filter detections.
<b>zQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from z filter detections.
<b>yQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from y filter detections.
<b>processingVersion</b>	dimensionless	TINYINT	1	NA	Data release version.
<b>nDetections</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in all filters.
<b>ng</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in g filter.
<b>nr</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in r filter.
<b>ni</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in i filter.
<b>nz</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in z filter.
<b>ny</b>	dimensionless	SMALLINT	2	-999	Number of difference detections in y filter.

## Views in DR1 and DR2

There are a number of views in the Pan-STARRS databases, which are generally cases where there are two related tables that are joined to make a wide table that includes columns from both tables. Rather than make this page extremely long, we simply list the relevant views below with links to the individual pages that list the columns in those views.

There are also some views that are created because a very large table is broken up into multiple pieces for practical database implementation reasons. The various chunks of rows are combined together into what looks like a single big table. An example is the Detection table, which was simply too large to put into a single table. Those "virtual" tables are listed above with the regular tables because they are never accessed by users as individual tables. It is a confusing fact that they appear in the MyDB Views tab when exploring the database.

<b>Name of View</b>	<b>Joined tables</b>	<b>Notes</b>
<a href="#">DetectionObjectView</a>	ObjectThin, Detection	DR2
<a href="#">DiffDetObjectView</a>	DiffDetObject, DiffDetection	Not populated in DR2
<a href="#">ForcedGalaxyModelView</a>	ObjectThin, ForcedGalaxyShape	DR2
<a href="#">ForcedMeanObjectView</a>	ObjectThin, ForcedMeanObject	Not yet in DR2
<a href="#">MeanObjectView</a>	MeanObject, ObjectThin	
<a href="#">StackApFixExGalCon6ObjectView</a>	ObjectThin, StackApFixExGalCon6	

StackApFixExGalCon8ObjectView	ObjectThin, StackApFixExGalCon8	
StackApFixExGalUncView	ObjectThin, StackApFixExGalUnc	
StackApFixObjectView	ObjectThin, StackApFix, StackModelFitSer	
StackModelFitDevObjectView	ObjectThin, StackModelFitDev	
StackModelFitExpObjectView	ObjectThin, StackModelFitExp	
StackModelFitPetObjectView	ObjectThin, StackPetrosian	
StackModelFitSerObjectView	ObjectThin, StackModelFitSer	
StackModelObjectView	ObjectThin, StackModelFitExp, StackModelFitDev, StackModelFitSer, StackPetrosian	Note: User beware that this view contains a lot of columns and selecting all of them is not recommended.
StackObjectView	ObjectThin, StackObjectThin, StackObjectAttributes	