PS1 Database object and detection tables for bad skycells

This page describes the contents of the PanSTARRS-1 database object and detection tables that contain data from some bad skycells. These tables are identical in structure to the main tables (e.g, ObjectThinBadSkycells has the same columns as ObjectThin). They include information on sources that are identified as bad in both the PS1 DR1 and DR2 data releases because there was a problem with alignment of some images near the north equatorial pole that led to poor photometry and astrometry. We have marked the photometric measurements as bad for these objects in the main database tables, but the original information is available in these bad skycell tables.

Note that these values are considered of very poor quality, so they should be used with great caution.

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The starting point for the PS1 data archive is at Pan-STARRS1 data archive home page.

ObjectThinBadSkycells

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
objName	dimensionless	VARCHAR(32)	32	NA	IAU name for this object.
objPSOName	dimensionless	VARCHAR(32)	32	NA	Alternate Pan-STARRS name for this object.
objAltName1	dimensionless	VARCHAR(32)	32	NA	Alternate name for this object.
objAltName2	dimensionless	VARCHAR(32)	32		Altername name for this object.
objAltName3	dimensionless	VARCHAR(32)	32		Altername name for this object.
objPopularName	dimensionless	VARCHAR(140)	140		Well known name for this object.
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspsOBid	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
surveyID	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
htmID	dimensionless	BIGINT	8	NA	Hierarchical triangular mesh (Szalay 2007) index.

zoneID	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).
tessID	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
projectionID	dimensionless	SMALLINT	2	-1	Projection cell identifier.
skyCellID	dimensionless	TINYINT	1	255	Skycell region identifier.
randomID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
batchID	dimensionless	BIGINT	8	NA	Internal database batch identifier.
dvoRegionID	dimensionless	INT	4	-1	Internal DVO region identifier.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.
objInfoFlag	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in ObjectInfoFlags and here
astrometryCorrectionFlag	dimensionless	INT	4	0	Information flag bitmask indicating details of the astrometry correction. Values listed in AstrometryCorrectionFlags and here
qualityFlag	dimensionless	TINYINT	1	0	Subset of objInfoFlag denoting whether this object is real or a likely false positive. Values listed in ObjectQualityFlags and here
raStack	degrees	FLOAT	8	-999	Right ascension from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
decStack	degrees	FLOAT	8	-999	Declination from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
raStackErr	arcsec	REAL	4	-999	Right ascension standard deviation from stack detections.
decStackErr	arcsec	REAL	4	-999	Declination standard deviation from stack detections.
raMean	degrees	FLOAT	8	-999	Right ascension from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
decMean	degrees	FLOAT	8	-999	Declination from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
raMeanErr	arcsec	REAL	4	-999	Right ascension standard deviation from single epoch detections.
decMeanErr	arcsec	REAL	4	-999	Declination standard deviation from single epoch detections.
pmra	milliarcseconds per year	FLOAT	8	NULL	Proper motion in right ascension direction from single epoch detections.
pmdec	milliarcseconds per year	FLOAT	8	NULL	Proper motion in right ascension direction from single epoch detections.
pmraErr	milliarcseconds per year	FLOAT	8	NULL	RA proper motion standard deviation.
pmdecErr	milliarcseconds per year	FLOAT	8	NULL	Dec proper motion standard deviation.
epochMean	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.
posMeanChisq	dimensionless	REAL	4	-999	Reduced chi squared value of mean position.
cx	dimensionless	FLOAT	8	NA	Cartesian x on a unit sphere.

cy	dimensionless	FLOAT	8	NA	Cartesian y on a unit sphere.
cz	dimensionless	FLOAT	8	NA	Cartesian z on a unit sphere.
lambda	degrees	FLOAT	8	-999	Ecliptic longitude.
beta	degrees	FLOAT	8	-999	Ecliptic latitude.
l	degrees	FLOAT	8	-999	Galactic longitude.
b	degrees	FLOAT	8	-999	Galactic latitude.
nStackObjectRows	dimensionless	SMALLINT	2	-999	Number of independent StackObjectThin rows associated with this object.
nStackDetections	dimensionless	SMALLINT	2	-999	Number of stack detections.
nDetections	dimensionless	SMALLINT	2	-999	Number of single epoch detections in all filters.
ng	dimensionless	SMALLINT	2	-999	Number of single epoch detections in g filter.
nr	dimensionless	SMALLINT	2	-999	Number of single epoch detections in r filter.
ni	dimensionless	SMALLINT	2	-999	Number of single epoch detections in i filter.
nz	dimensionless	SMALLINT	2	-999	Number of single epoch detections in z filter.
ny	dimensionless	SMALLINT	2	-999	Number of single epoch detections in y filter.

MeanObjectBadSkycells

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
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspsOBid	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
gQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from g filter detections.
gMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from g filter detections.
gMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from g filter detections.
gMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from g filter detections.
gMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from g filter detections.
gMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from g filter detections.
gMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from g filter detections.

gMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from g filter detections.
gMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from g filter detections.
gMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from g filter detections.
gMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from g filter detections.
gMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from g filter detections.
gMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from g filter detections.
gMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from g filter detections.
gMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from g filter detections.
gFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from g filter detections. Values listed in ObjectFilterFlags.
rQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from r filter detections.
rMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from r filter detections.
rMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from r filter detections.
rMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from r filter detections.
rMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from r filter detections.
rMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from r filter detections.
rMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from r filter detections.
rMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from r filter detections.
rMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from r filter detections.
rMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from r filter detections.
rMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from r filter detections.
rMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from r filter detections.
rMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from r filter detections.
rMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from r filter detections.
rMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from r filter detections.

rFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from r filter detections. Values listed in ObjectFilterFlags.
iQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from i filter detections.
iMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from i filter detections.
iMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from i filter detections.
iMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from i filter detections.
iMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from i filter detections.
iMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from i filter detections.
iMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from i filter detections.
iMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from i filter detections.
iMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from i filter detections.
iMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from i filter detections.
iMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from i filter detections.
iMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from i filter detections.
iMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from i filter detections.
iMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from i filter detections.
iMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from i filter detections.
iFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from i filter detections. Values listed in ObjectFilterFlags.
zQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from z filter detections.
zMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from z filter detections.
zMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from z filter detections.
zMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from z filter detections.
zMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from z filter detections.
zMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from z filter detections.
zMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from z filter detections.

zMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from z filter detections.
zMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from z filter detections.
zMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from z filter detections.
zMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from z filter detections.
zMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from z filter detections.
zMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from z filter detections.
zMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from z filter detections.
zMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from z filter detections.
zFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from z filter detections. Values listed in ObjectFilterFlags.
yQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from y filter detections.
yMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from y filter detections.
yMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from y filter detections.
yMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from y filter detections.
yMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from y filter detections.
yMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from y filter detections.
yMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from y filter detections.
yMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from y filter detections.
yMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from y filter detections.
yMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from y filter detections.
yMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from y filter detections.
yMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from y filter detections.
yMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from y filter detections.
yMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from y filter detections.
yMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from y filter detections.

yFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from y filter detections. Values listed in ObjectFilterFlags.

StackObjectThinBadSkycells

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
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.
surveyID	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
tessID	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
projectionID	dimensionless	SMALLINT	2	-1	Projection cell identifier.
skyCellID	dimensionless	TINYINT	1	255	Skycell region 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. 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.
bestDetection	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.
dvoRegionID	dimensionless	INT	4	-1	Internal DVO region identifier.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.
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.
gra	degrees	FLOAT	8	-999	Right ascension from g filter stack detection.

gdec	degrees	FLOAT	8	-999	Declination from g filter stack detection.
graErr	arcsec	REAL	4	-999	Right ascension error from g filter stack detection.
gdecErr	arcsec	REAL	4	-999	Declination error from g filter stack detection.
gEpoch	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the g-band stack (equinox J2000).
gPSFMag	AB magnitudes	REAL	4	-999	PSF magnitude from g filter stack detection.
gPSFMagErr	AB magnitudes	REAL	4	-999	Error in PSF magnitude from g filter stack detection.
gApMag	AB magnitudes	REAL	4	-999	Aperture magnitude from g filter stack detection.
gApMagErr	AB magnitudes	REAL	4	-999	Error in aperture magnitude from g filter stack detection.
gKronMag	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from g filter stack detection.
gKronMagErr	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from g filter stack detection.
ginfoFlag	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags.
ginfoFlag2	dimensionless	INT	4	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags2.
ginfoFlag3	dimensionless	INT	4	0	Information flag bitmask indicating details of the g filter stack photometry. Values listed in DetectionFlags3.
gnFrames	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the g filter stack detection.
rippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
rstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
rstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
rra	degrees	FLOAT	8	-999	Right ascension from r filter stack detection.
rdec	degrees	FLOAT	8	-999	Declination from r filter stack detection.
rraErr	arcsec	REAL	4	-999	Right ascension error from r filter stack detection.
rdecErr	arcsec	REAL	4	-999	Declination error from r filter stack detection.
rEpoch	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the r-band stack (equinox J2000).
rPSFMag	AB magnitudes	REAL	4	-999	PSF magnitude from r filter stack detection.
rPSFMagErr	AB magnitudes	REAL	4	-999	Error in PSF magnitude from r filter stack detection.
rApMag	AB magnitudes	REAL	4	-999	Aperture magnitude from r filter stack detection.
rApMagErr	AB magnitudes	REAL	4	-999	Error in aperture magnitude from r filter stack detection.
rKronMag	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from r filter stack detection.
rKronMagErr	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from r filter stack detection.

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

zPSFMag	AB magnitudes	REAL	4	-999	PSF magnitude from z filter stack detection.
zPSFMagErr	AB magnitudes	REAL	4	-999	Error in PSF magnitude from z filter stack detection.
zApMag	AB magnitudes	REAL	4	-999	Aperture magnitude from z filter stack detection.
zApMagErr	AB magnitudes	REAL	4	-999	Error in aperture magnitude from z filter stack detection.
zKronMag	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from z filter stack detection.
zKronMagErr	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from z filter stack detection.
zinfoFlag	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags.
zinfoFlag2	dimensionless	INT	4	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags2.
zinfoFlag3	dimensionless	INT	4	0	Information flag bitmask indicating details of the z filter stack photometry. Values listed in DetectionFlags3.
znFrames	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the z filter stack detection.
yippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
ystackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
ystackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
yra	degrees	FLOAT	8	-999	Right ascension from y filter stack detection.
ydec	degrees	FLOAT	8	-999	Declination from y filter stack detection.
yraErr	arcsec	REAL	4	-999	Right ascension error from y filter stack detection.
ydecErr	arcsec	REAL	4	-999	Declination error from y filter stack detection.
yEpoch	days	FLOAT	8	-999	Modified Julian Date of the mean epoch of images contributing to the the y-band stack (equinox J2000).
yPSFMag	AB magnitudes	REAL	4	-999	PSF magnitude from y filter stack detection.
yPSFMagErr	AB magnitudes	REAL	4	-999	Error in PSF magnitude from y filter stack detection.
yApMag	AB magnitudes	REAL	4	-999	Aperture magnitude from y filter stack detection.
yApMagErr	AB magnitudes	REAL	4	-999	Error in aperture magnitude from y filter stack detection.
yKronMag	AB magnitudes	REAL	4	-999	Kron (1980) magnitude from y filter stack detection.
yKronMagErr	AB magnitudes	REAL	4	-999	Error in Kron (1980) magnitude from y filter stack detection.
yinfoFlag	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags.
yinfoFlag2	dimensionless	INT	4	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags2.
yinfoFlag3	dimensionless	INT	4	0	Information flag bitmask indicating details of the y filter stack photometry. Values listed in DetectionFlags3.

ynFrames	dimensionless	INT	4	-999	Number of input frames/exposures contributing to the y filter stack detection.