

PS1 ForcedWarpMeasurement table fields

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

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
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspFWid	dimensionless	BIGINT	8	NA	Unique internal PSPS forced warp identifier.
detectID	dimensionless	BIGINT	8	NA	Unique detection identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
ippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
filterID	dimensionless	TINYINT	1	NA	Filter identifier. Details in the Filter table.
surveyID	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
forcedSummaryID	dimensionless	BIGINT	8	NA	Unique forced warp summary identifier.
forcedWarpID	dimensionless	BIGINT	8	NA	Unique forced warp identifier.
randomWarpID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
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.
dvoRegionID	dimensionless	INT	4	-1	Internal DVO region identifier.
obsTime	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.
zp	magnitudes	REAL	4	0	Photometric zeropoint. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
telluricExt	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.
expTime	seconds	REAL	4	-999	Exposure time of the frame/exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
airMass	dimensionless	REAL	4	0	Airmass at midpoint of the exposure. Necessary for converting listed fluxes and magnitudes back to measured ADU counts.
FpsfFlux	Janskys	REAL	4	-999	PSF flux.
FpsfFluxErr	Janskys	REAL	4	-999	Error in PSF flux.
xPosChip	raw pixels	REAL	4	-999	PSF x position in original chip pixels.
yPosChip	raw pixels	REAL	4	-999	PSF y position in original chip pixels.
FccdID	dimensionless	SMALLINT	2	-999	OTA identifier of original chip (see ImageMeta).
FpsfMajorFWHM	arcsec	REAL	4	-999	PSF major axis FWHM.

FpsfMinorFWHM	arcsec	REAL	4	-999	PSF minor axis FWHM.
FpsfTheta	degrees	REAL	4	-999	PSF major axis orientation.
FpsfCore	dimensionless	REAL	4	-999	PSF core parameter k, where $F = F_0 / (1 + k r^2 + r^{3.33})$.
FpsfQf	dimensionless	REAL	4	-999	PSF coverage factor.
FpsfQfPerfect	dimensionless	REAL	4	-999	PSF weighted fraction of pixels totally unmasked.
FpsfChiSq	dimensionless	REAL	4	-999	Reduced chi squared value of the PSF model fit.
FmomentXX	arcsec ²	REAL	4	-999	Second moment M _{xx} .
FmomentXY	arcsec ²	REAL	4	-999	Second moment M _{xy} .
FmomentYY	arcsec ²	REAL	4	-999	Second moment M _{yy} .
FmomentR1	arcsec	REAL	4	-999	First radial moment.
FmomentRH	arcsec ^{0.5}	REAL	4	-999	Half radial moment (r ^{0.5} weighting).
FmomentM3C	arcsec ²	REAL	4	-999	Cosine of trefoil second moment term: $r^2 \cos(3 \theta) = M_{xxx} - 3 * M_{xyy}$.
FmomentM3S	arcsec ²	REAL	4	-999	Sine of trefoil second moment: $r^2 \sin(3 \theta) = 3 * M_{xxy} - M_{yyy}$.
FmomentM4C	arcsec ²	REAL	4	-999	Cosine of quadrupole second moment: $r^2 \cos(4 \theta) = M_{xxxx} - 6 * M_{xxyy} + M_{yyyy}$.
FmomentM4S	arcsec ²	REAL	4	-999	Sine of quadrupole second moment: $r^2 \sin(4 \theta) = 4 * M_{xxxy} - 4 * M_{xyyy}$.
FapFlux	Janskys	REAL	4	-999	Aperture flux.
FapFluxErr	Janskys	REAL	4	-999	Error in aperture flux.
FapFillF	dimensionless	REAL	4	-999	Aperture fill factor.
FapRadius	arcsec	REAL	4	-999	Aperture radius for forced warp detection.
FkronFlux	Janskys	REAL	4	-999	Kron (1980) flux.
FkronFluxErr	Janskys	REAL	4	-999	Error in Kron (1980) flux.
FkronRad	arcsec	REAL	4	-999	Kron (1980) radius.
Fsky	Janskys / arcsec ²	REAL	4	-999	Background sky level.
FskyErr	Janskys / arcsec ²	REAL	4	-999	Error in background sky level.
FinfoFlag	dimensionless	BIGINT	8	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags.
FinfoFlag2	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags2.
FinfoFlag3	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in DetectionFlags3.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.