

KIC 003002336

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
003002336-01	OBS	No	0.831822	131.613277	148.3	2.000	8.0	-1.0	3.84	7643	4.70	96082.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003002336-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

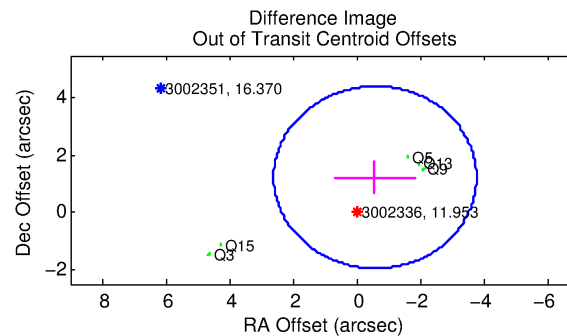
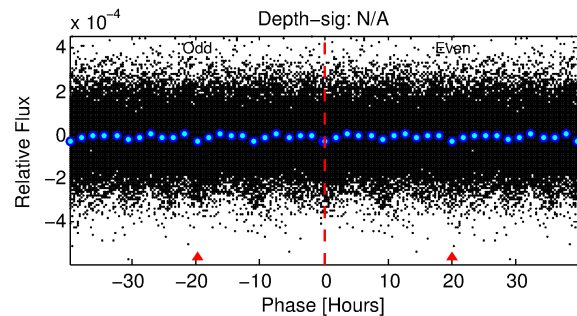
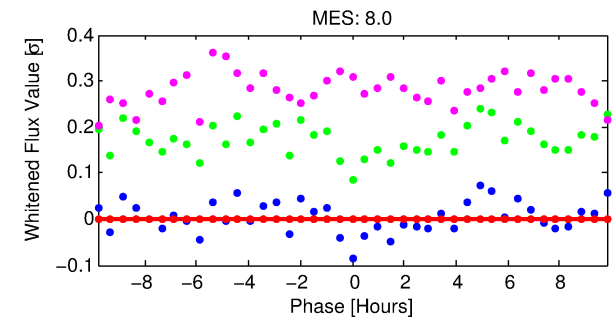
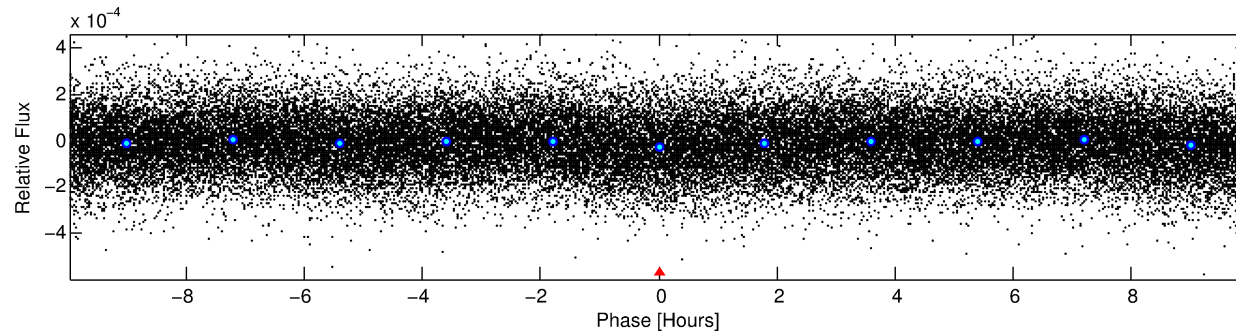
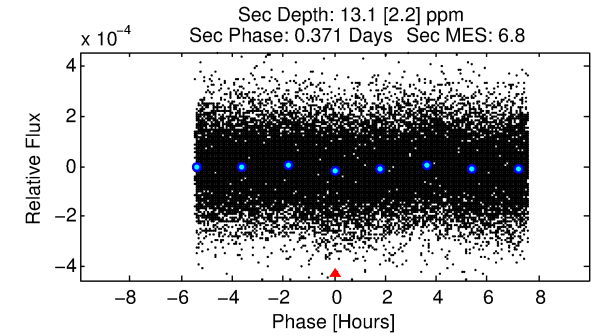
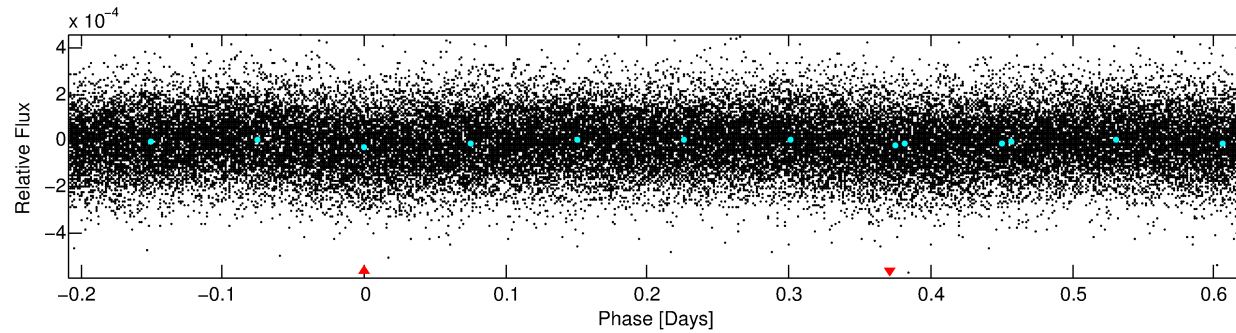
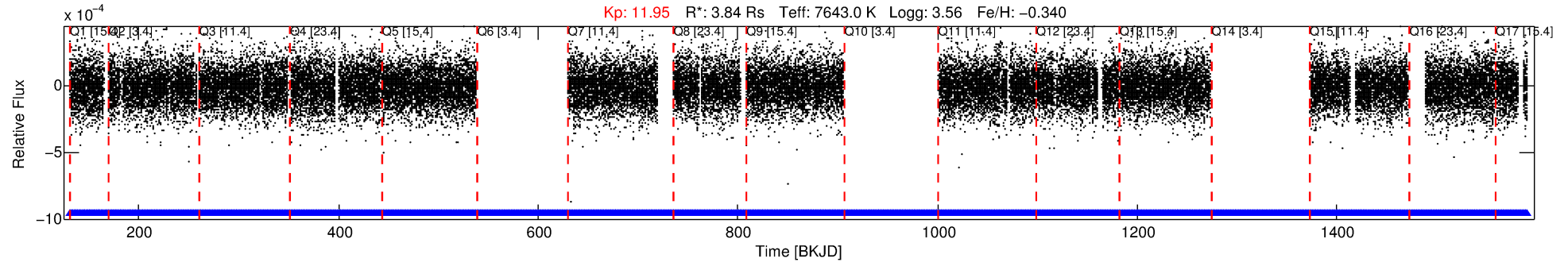
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003002336-01

No Significant Match Found

DV One-Page Summary

KIC: 3002336 Candidate: 1 of 1 Period: 0.832 d



TPS TCE Results:

Period = 0.83182 d
Epoch = 131.6133 BKJD

DV fit results are unavailable

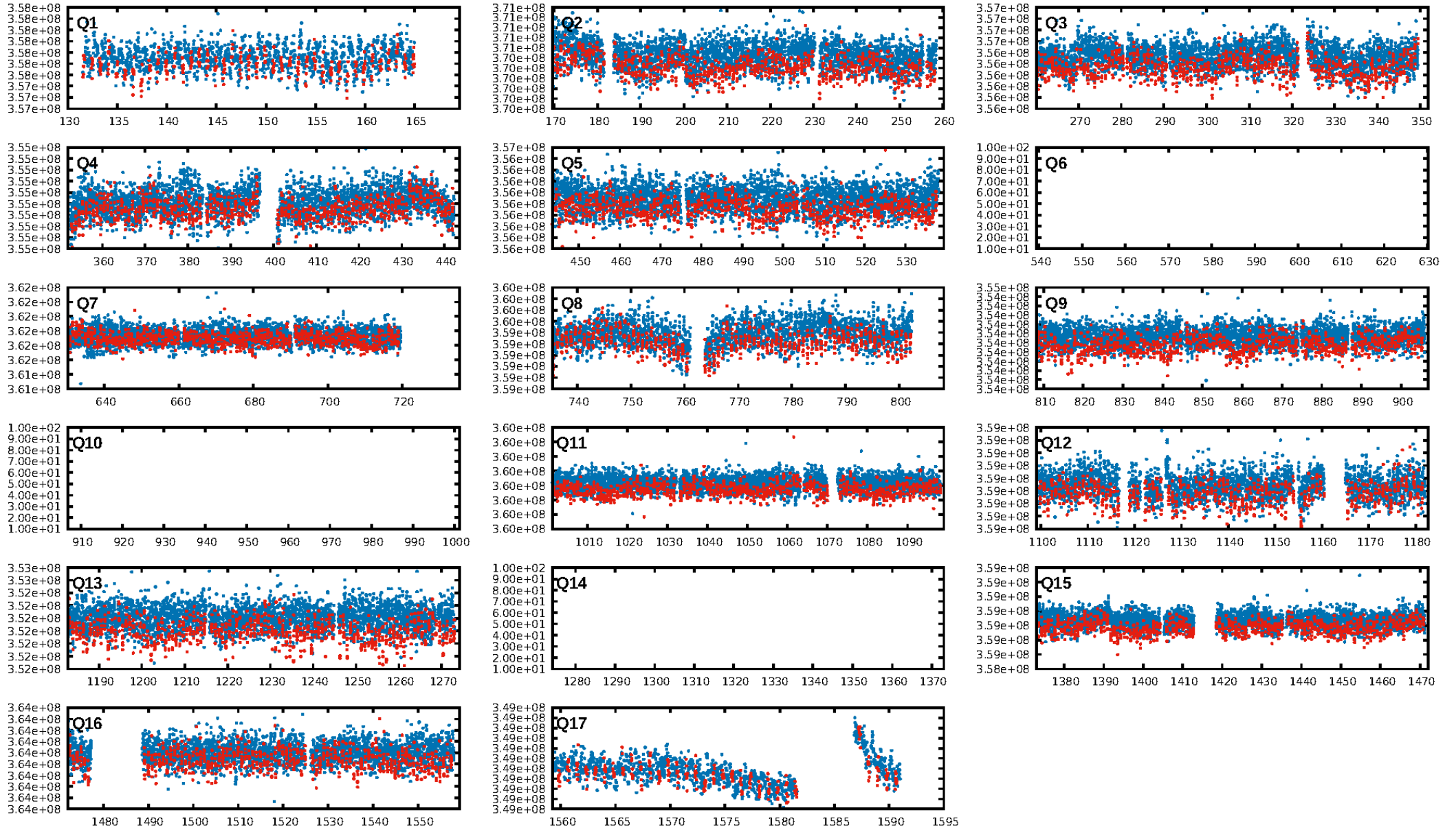
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.01e-13
RollingBand-fgt: 1.00 [1230/1230]
GhostDiagnostic-chr: 0.7583
Centroid-sig: 0.0%
Centroid-so: 0.264 arcsec [3.07σ]
OotOffset-rm: 1.367 arcsec [1.29σ]
KicOffset-rm: 1.494 arcsec [1.04σ]
OotOffset-st: 0/2/0/3 [5]
KicOffset-st: 0/2/0/3 [5]
DiffImageQuality-fgm: 0.20 [1/5]
DiffImageOverlap-fno: 1.00 [14/14]

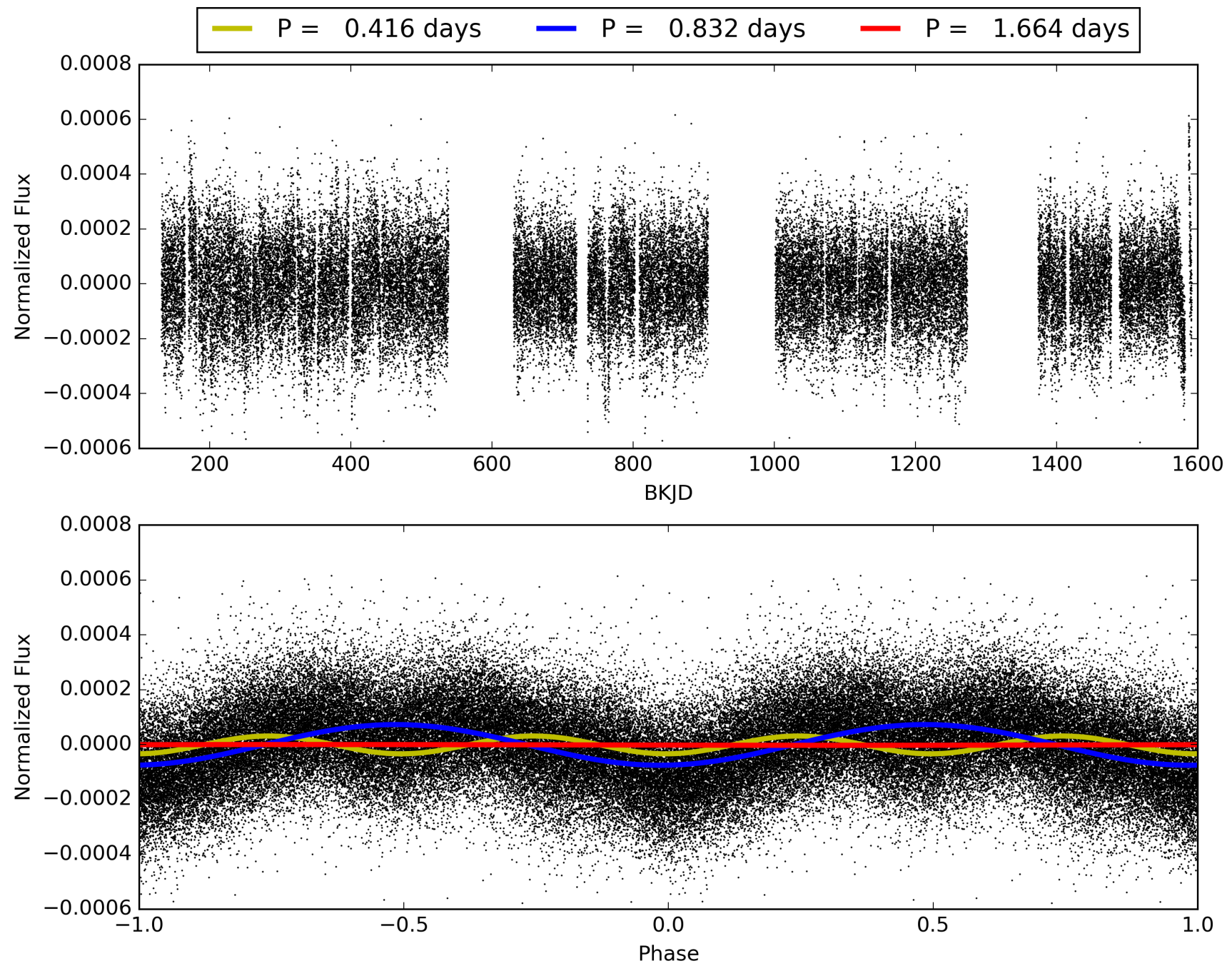
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:58:52 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003002336-01, PDC Light Curves

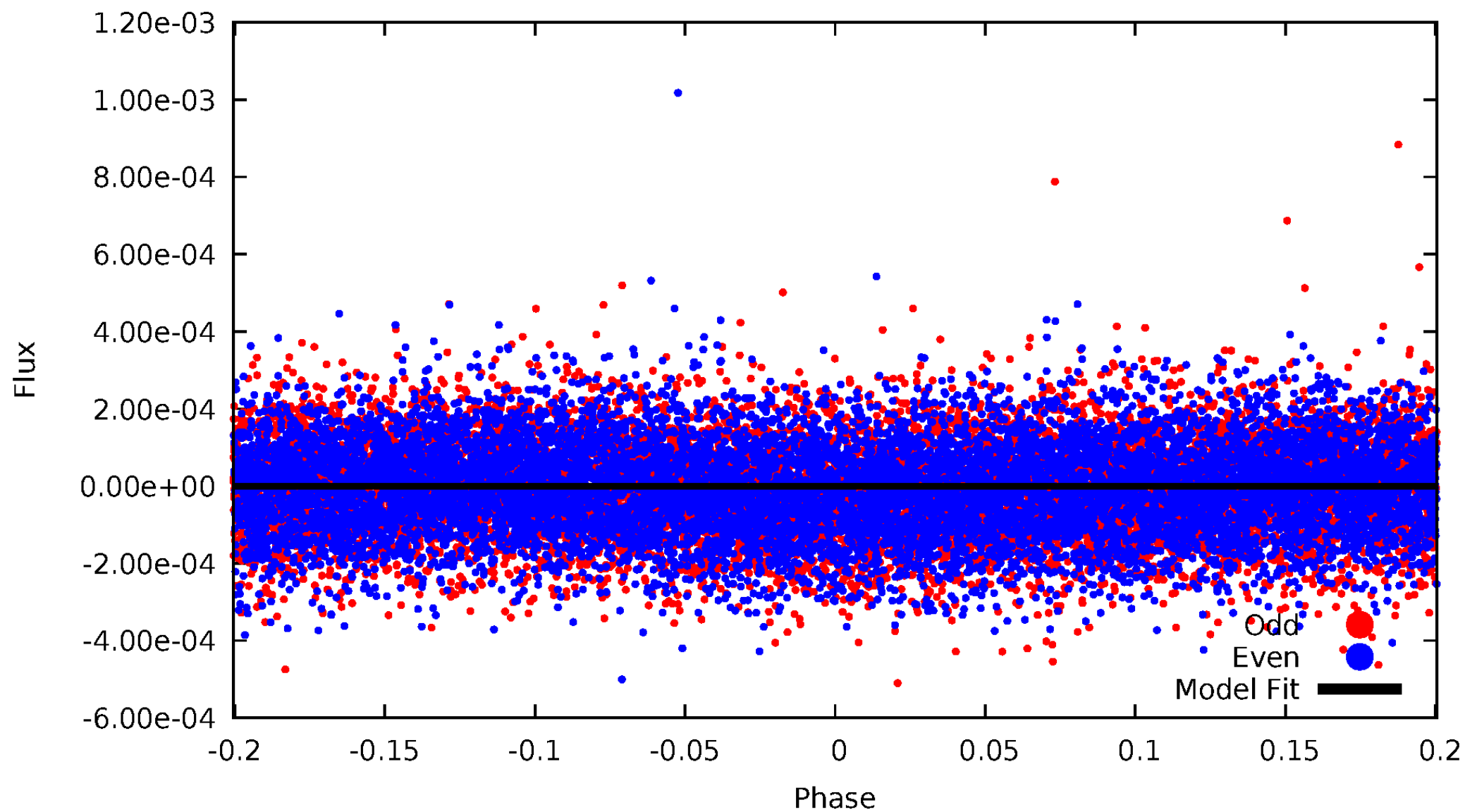


TCE 003002336-01



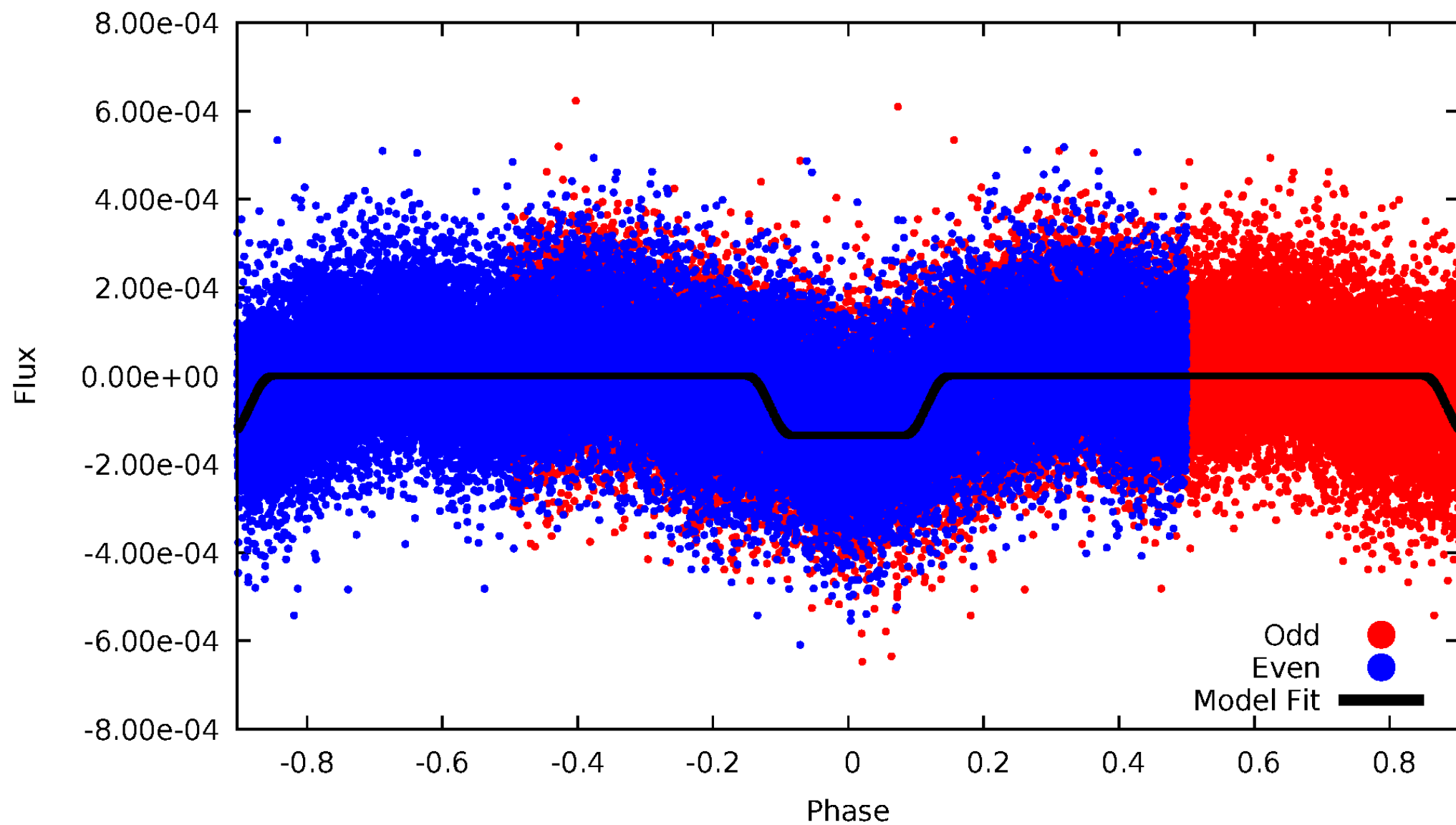
DV Odd/Even

TCE 003002336-01



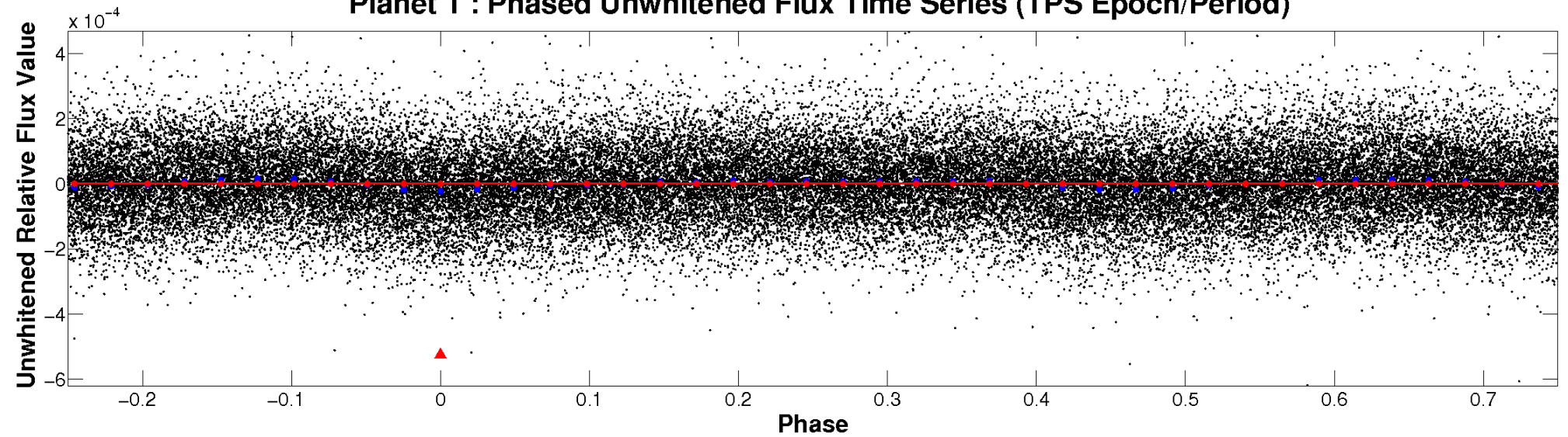
ALT Odd/Even

TCE 003002336-01



Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

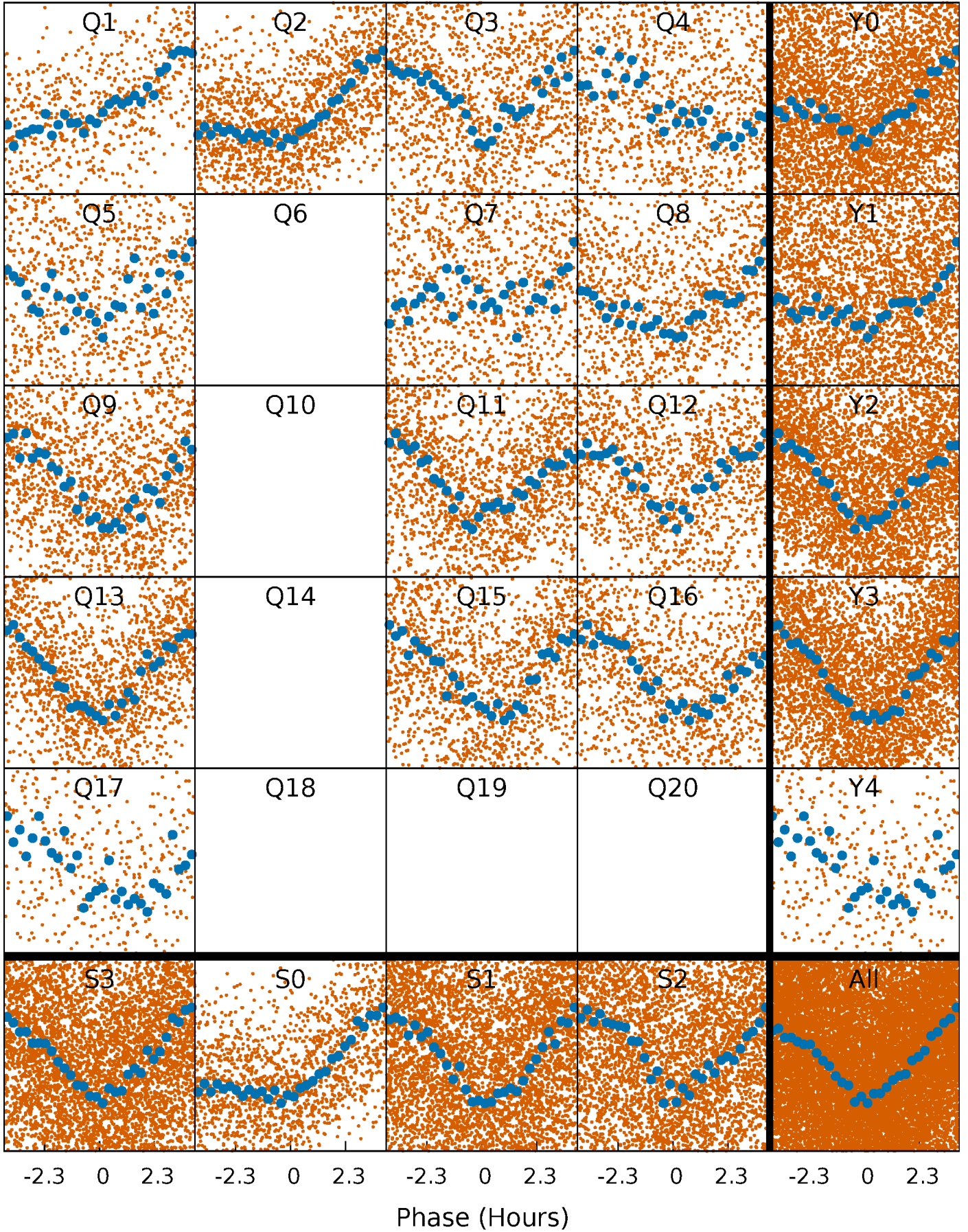


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



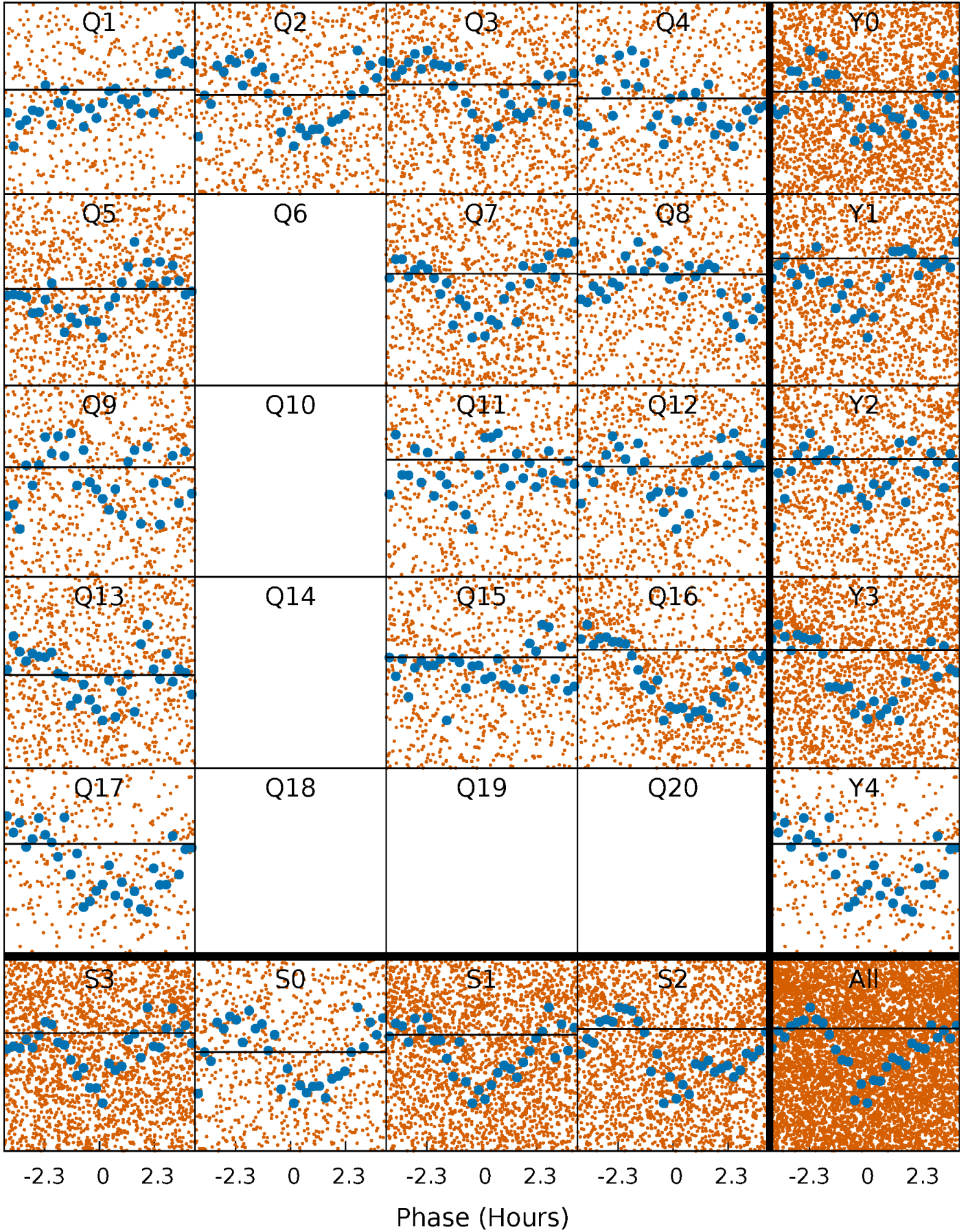
PDC Quarter-Phased Transit Curves

TCE 003002336-01 P= 0.831822 Days $T_0=131.613277$ (BKJD)



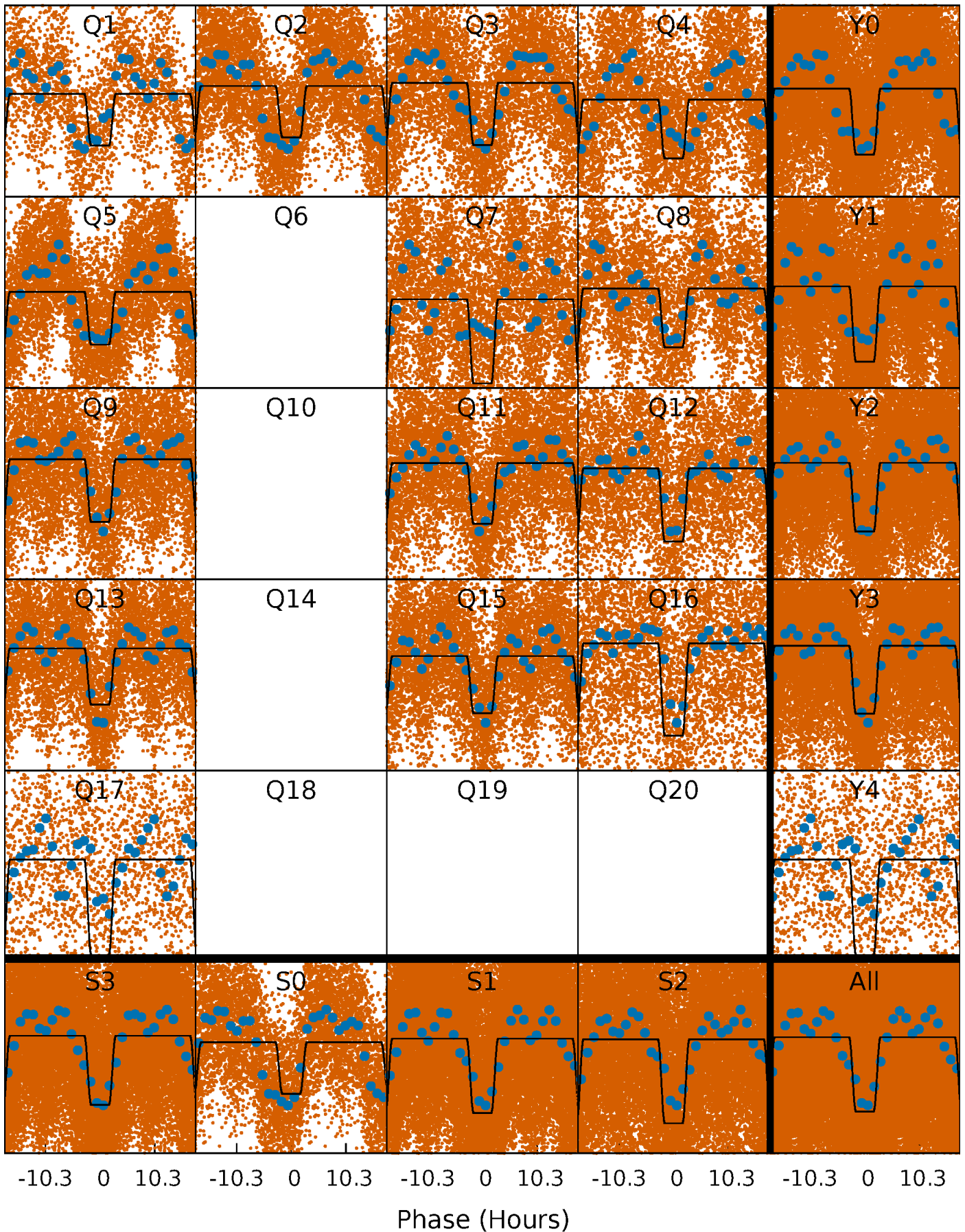
DV Quarter-Phased Transit Curves

TCE 003002336-01 $P = 0.831822$ Days $T_0 = 131.613277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

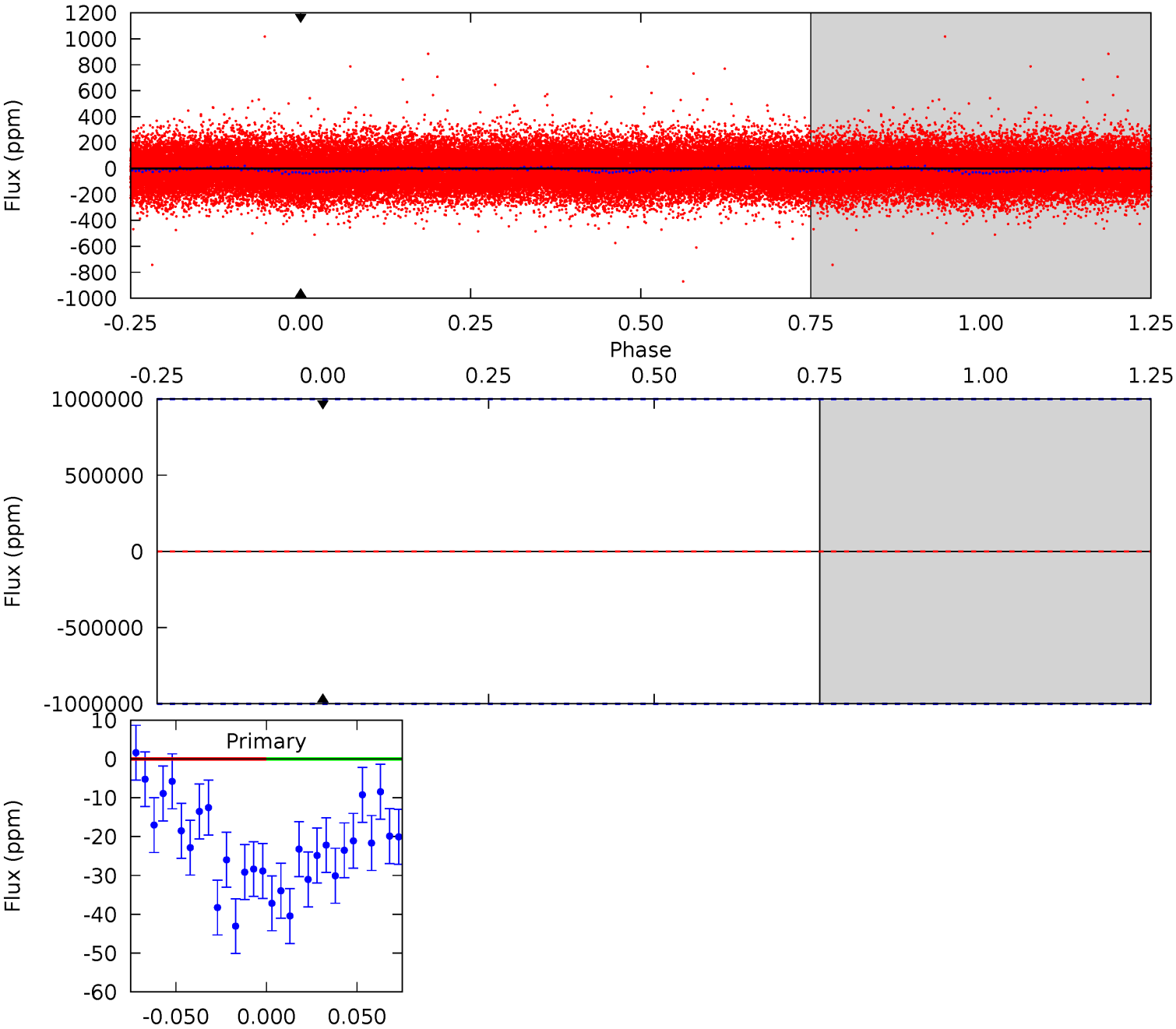
TCE 003002336-01 P= 0.831822 Days $T_0=131.613494$ (BKJD)



DV Model-Shift Uniqueness Test

003002336-01, P = 0.831822 Days, E = 130.781455 Days

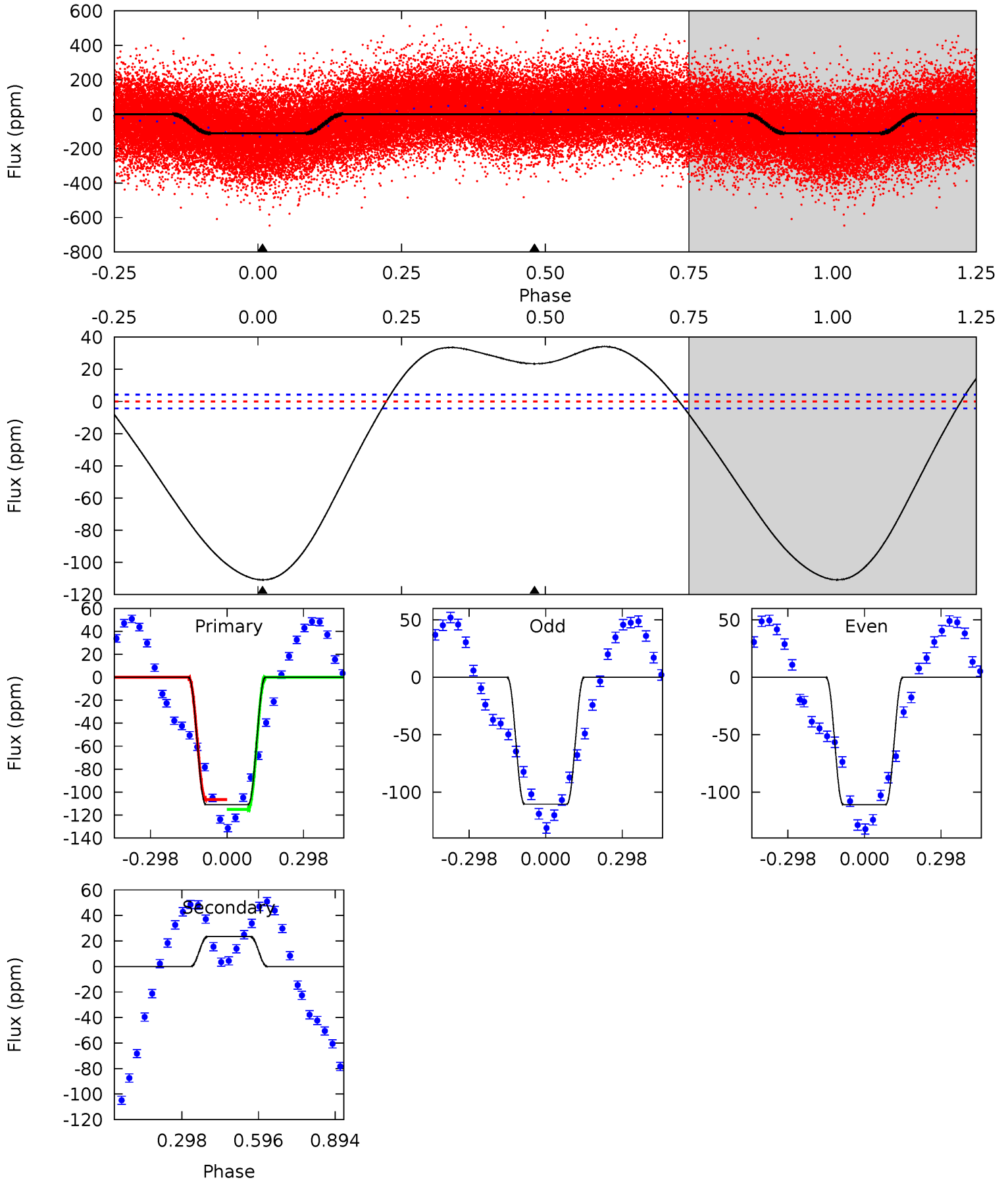
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003002336-01, P = 0.831822 Days, E = 130.781672 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
112.1	-23.7	0	0	4.33	1.04	12.0	112.1	112.1	-23.7	-23.7	0.22	1.01	0.24	4.38



Stellar Parameters For KIC 003002336

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7643^{+239}_{-319}	$3.561^{+0.576}_{-0.064}$	$-0.340^{+0.250}_{-0.300}$	$3.838^{+0.390}_{-2.078}$	$1.958^{+0.062}_{-0.561}$	$0.049^{+0.404}_{-0.010}$
	$+3\%/-4\%$	$+16\%/-2\%$	$+74\%/-88\%$	$+10\%/-54\%$	$+3\%/-29\%$	$+829\%/-20\%$
Source	KIC0	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 003002336-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$24.74^{+32.68}_{-17.51}$	6038^{+417}_{-849}	-3498^{+47743}_{-41516}	$0.268^{+74.778}_{-76.933}$
Alt.	23 ± 1	$25.56^{+28.08}_{-17.67}$	6018^{+437}_{-802}	-5056^{+517}_{-367}	$-0.009^{+0.007}_{-0.089}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

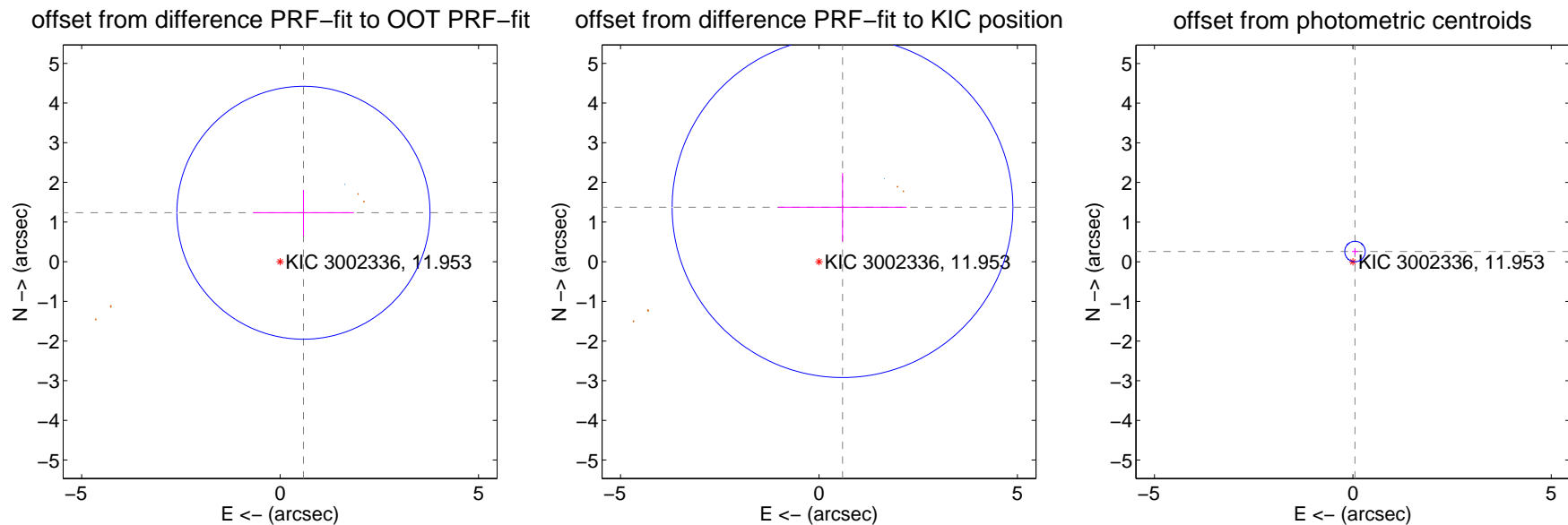
DV Centroid Data

Supplemental centroid analysis for 003002336-01. **Kepler magnitude: 11.95.** Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

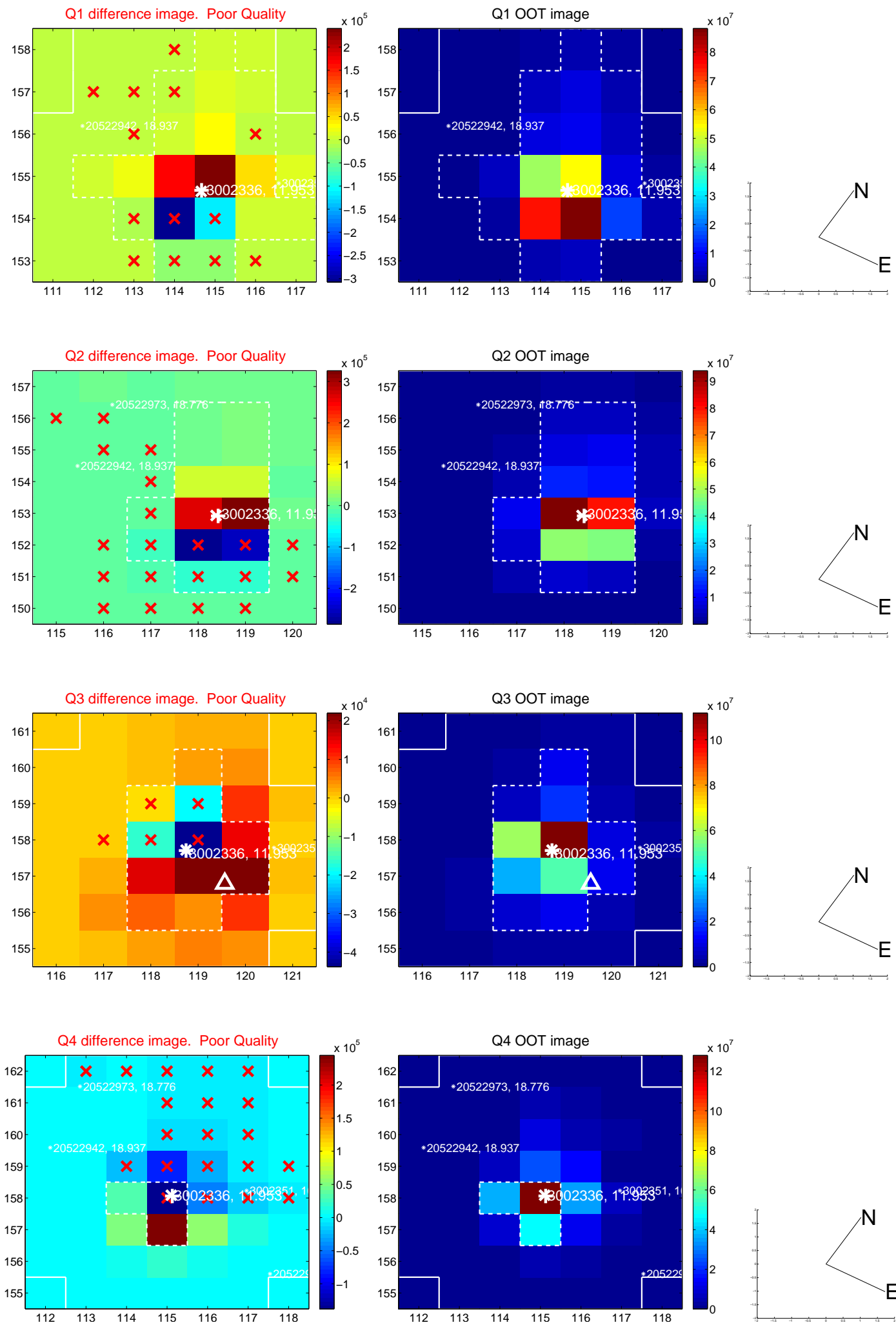
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.367 ± 1.063	1.29	-0.588 ± 1.270	1.234 ± 0.578
PRF-fit source offset from KIC position	1.494 ± 1.431	1.04	-0.593 ± 1.615	1.371 ± 0.864
photometric centroid source offset	0.26 ± 0.09	3.07	-0.05 ± 0.08	0.26 ± 0.09

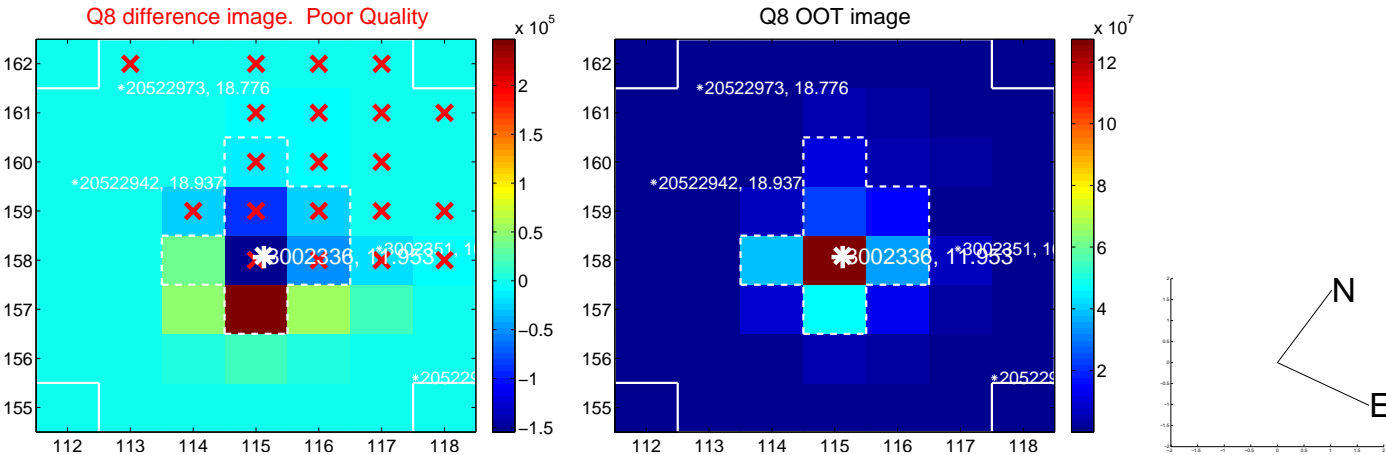
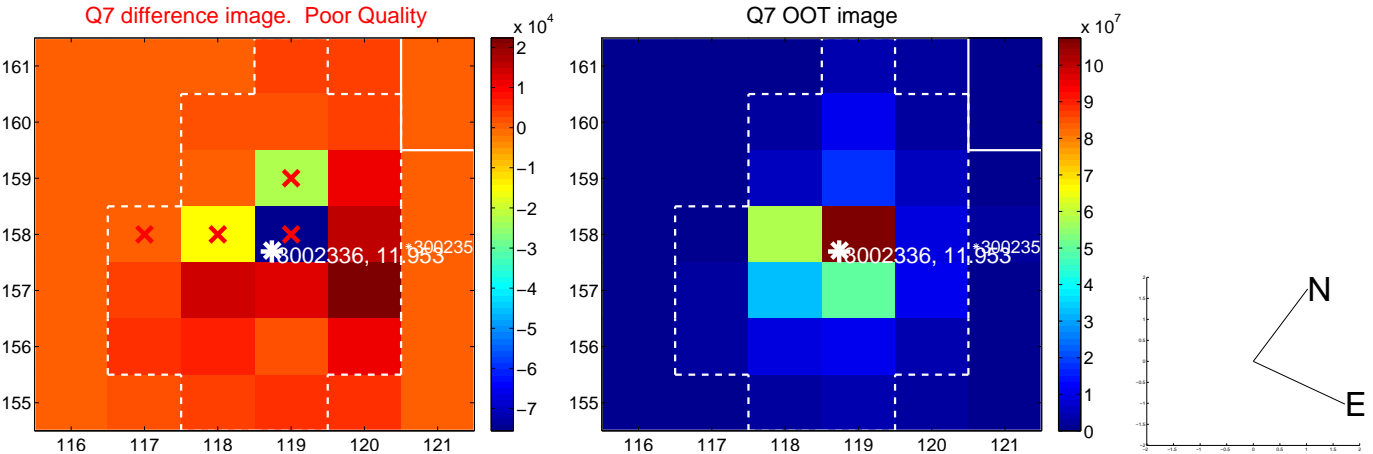
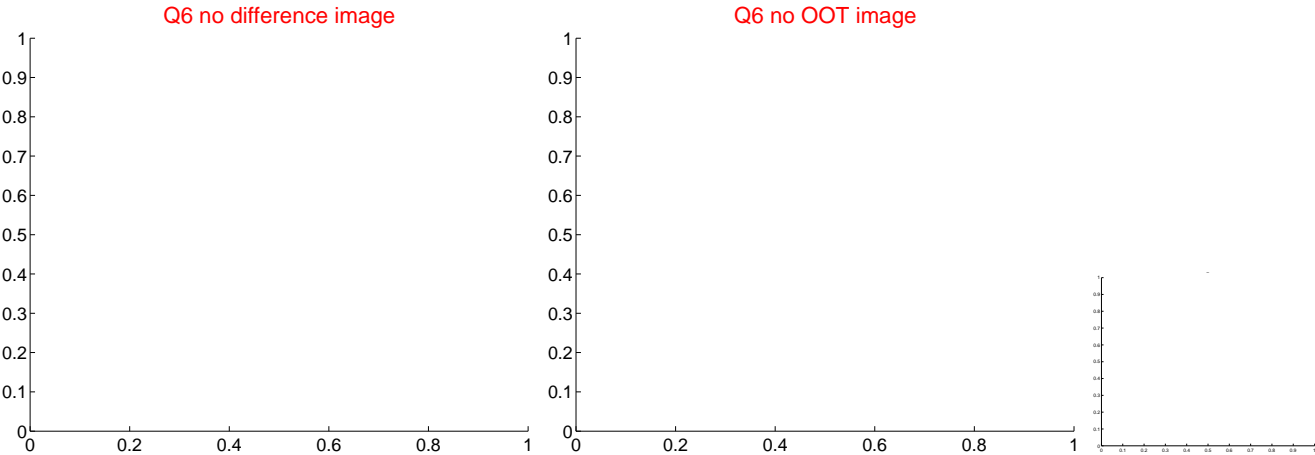
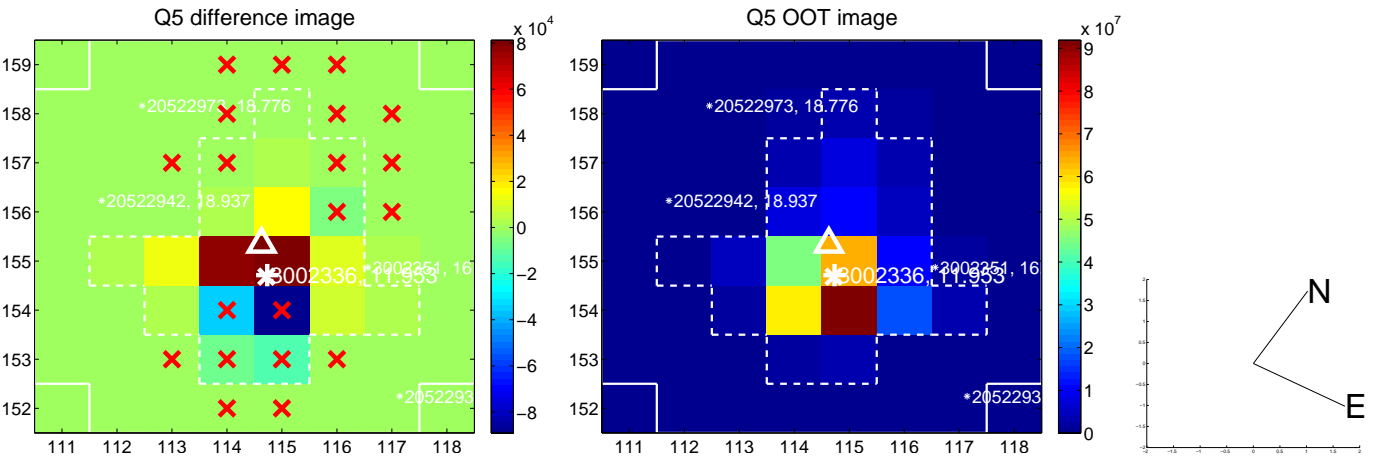


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

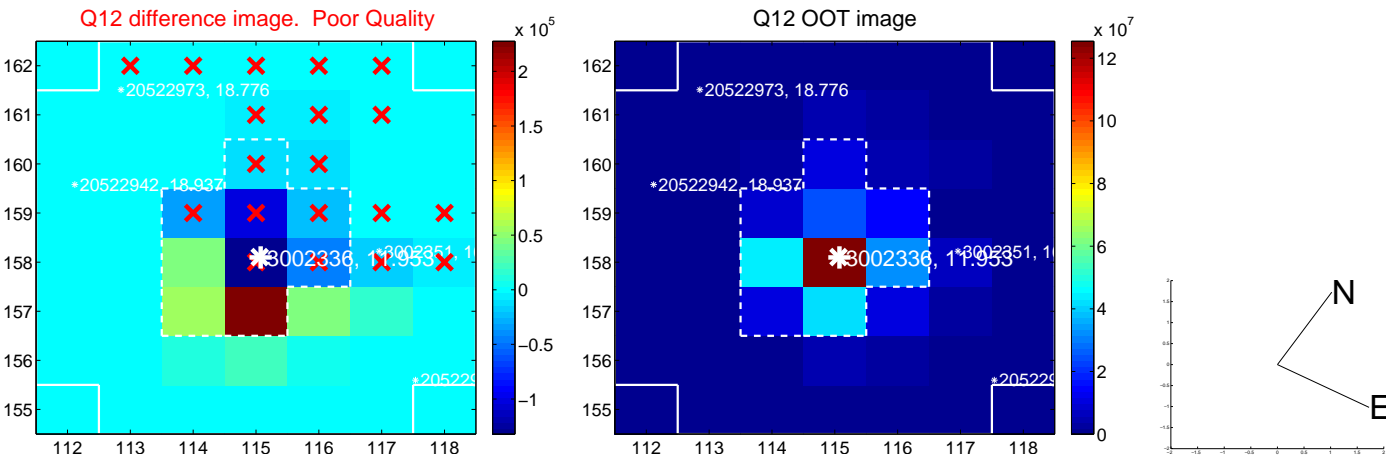
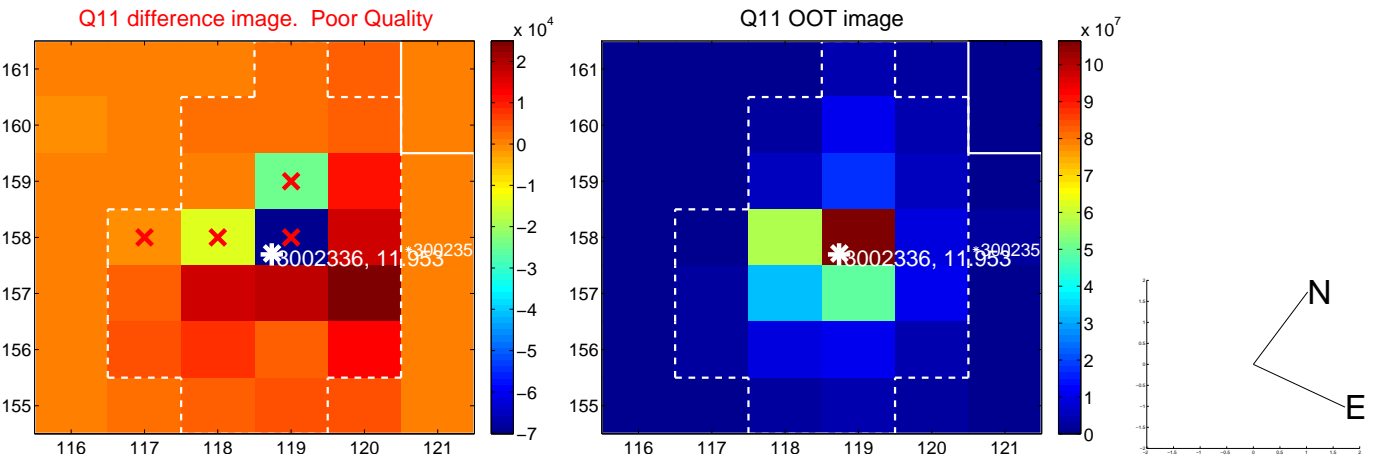
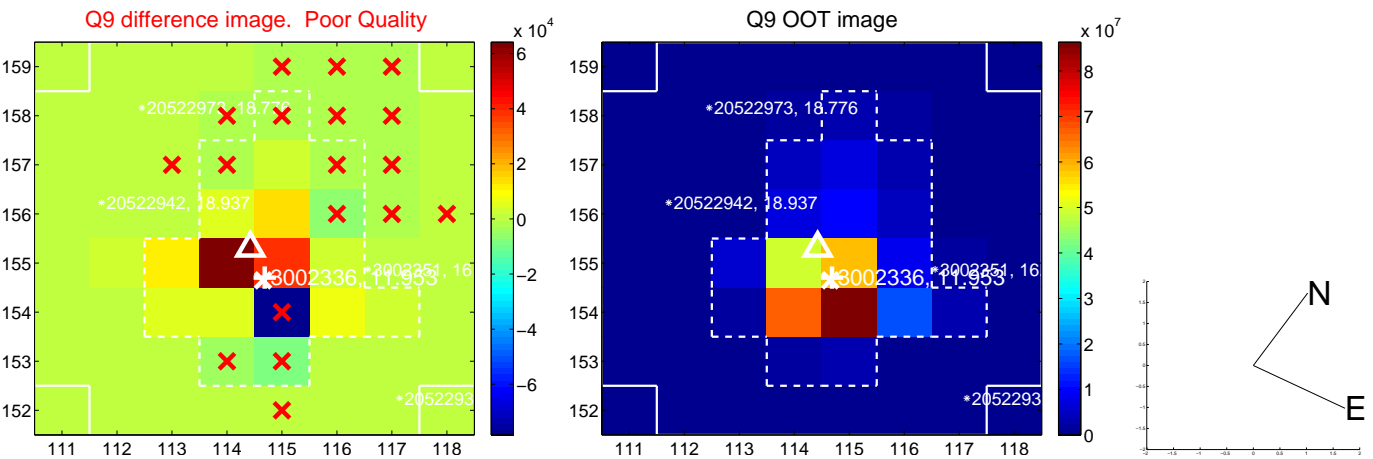
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



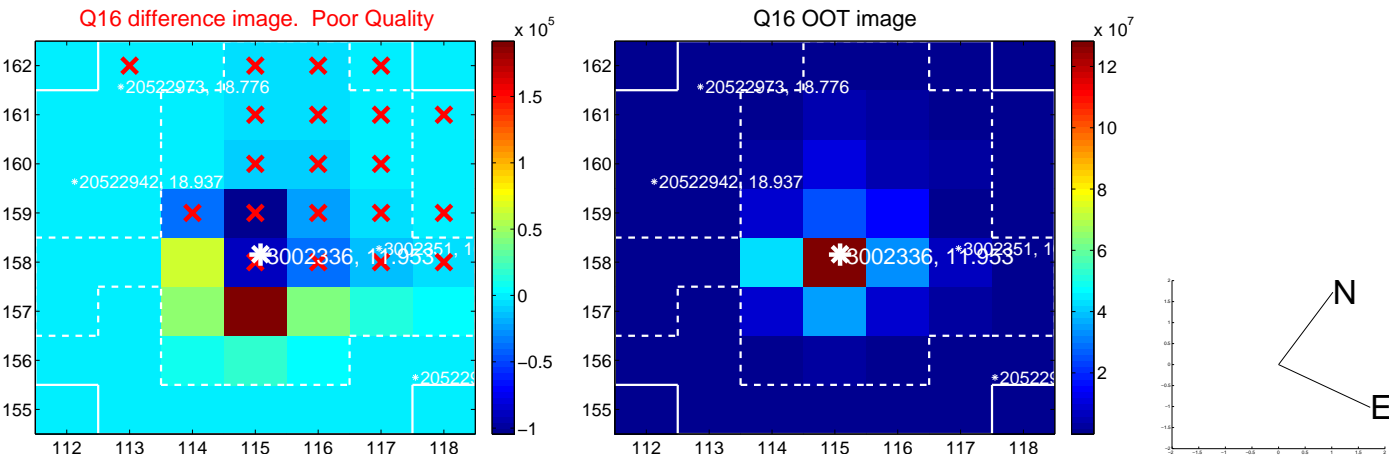
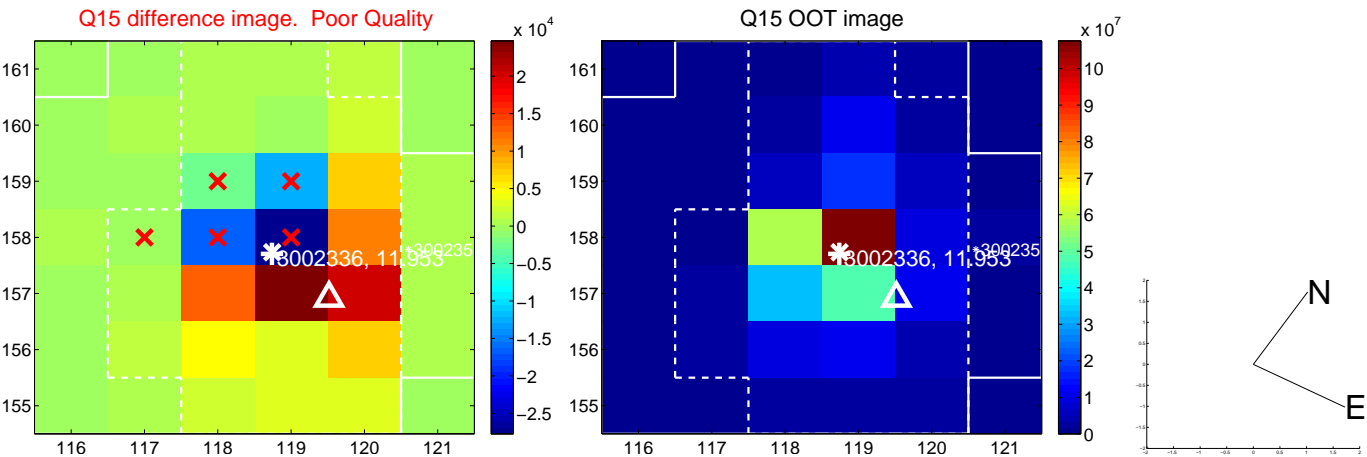
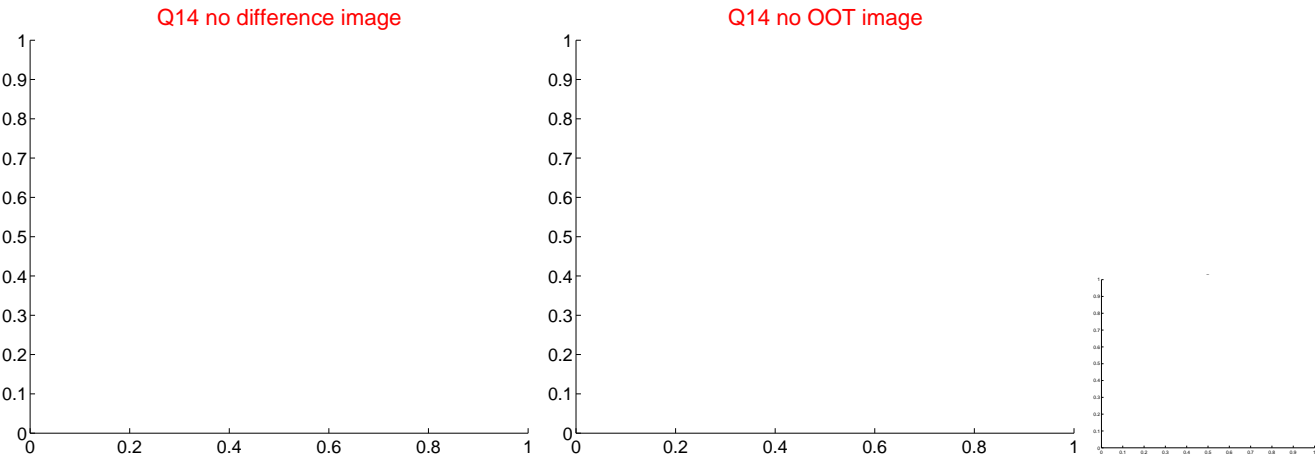
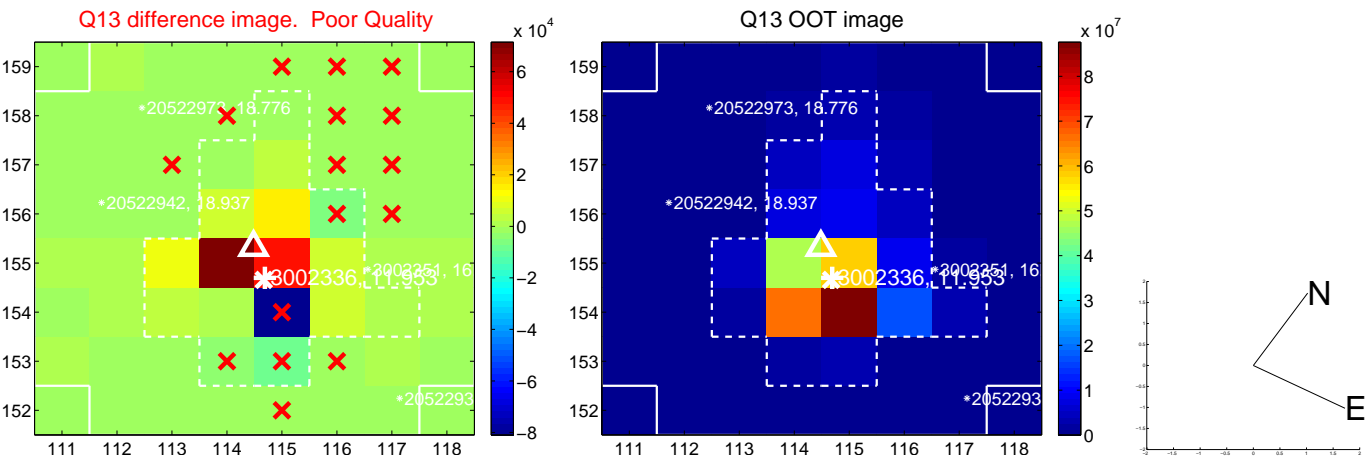
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



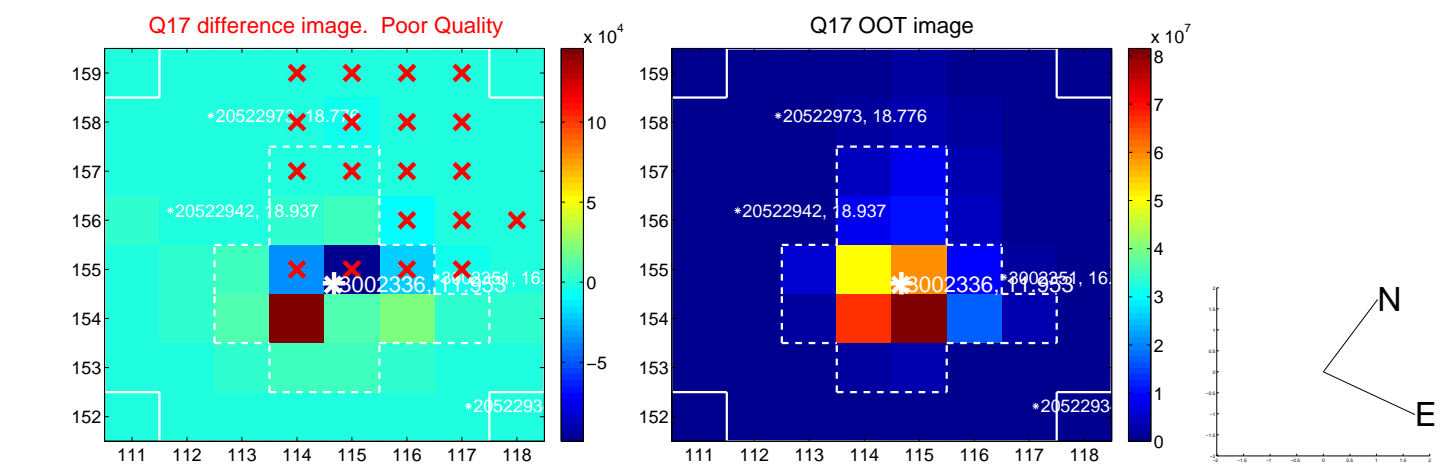
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



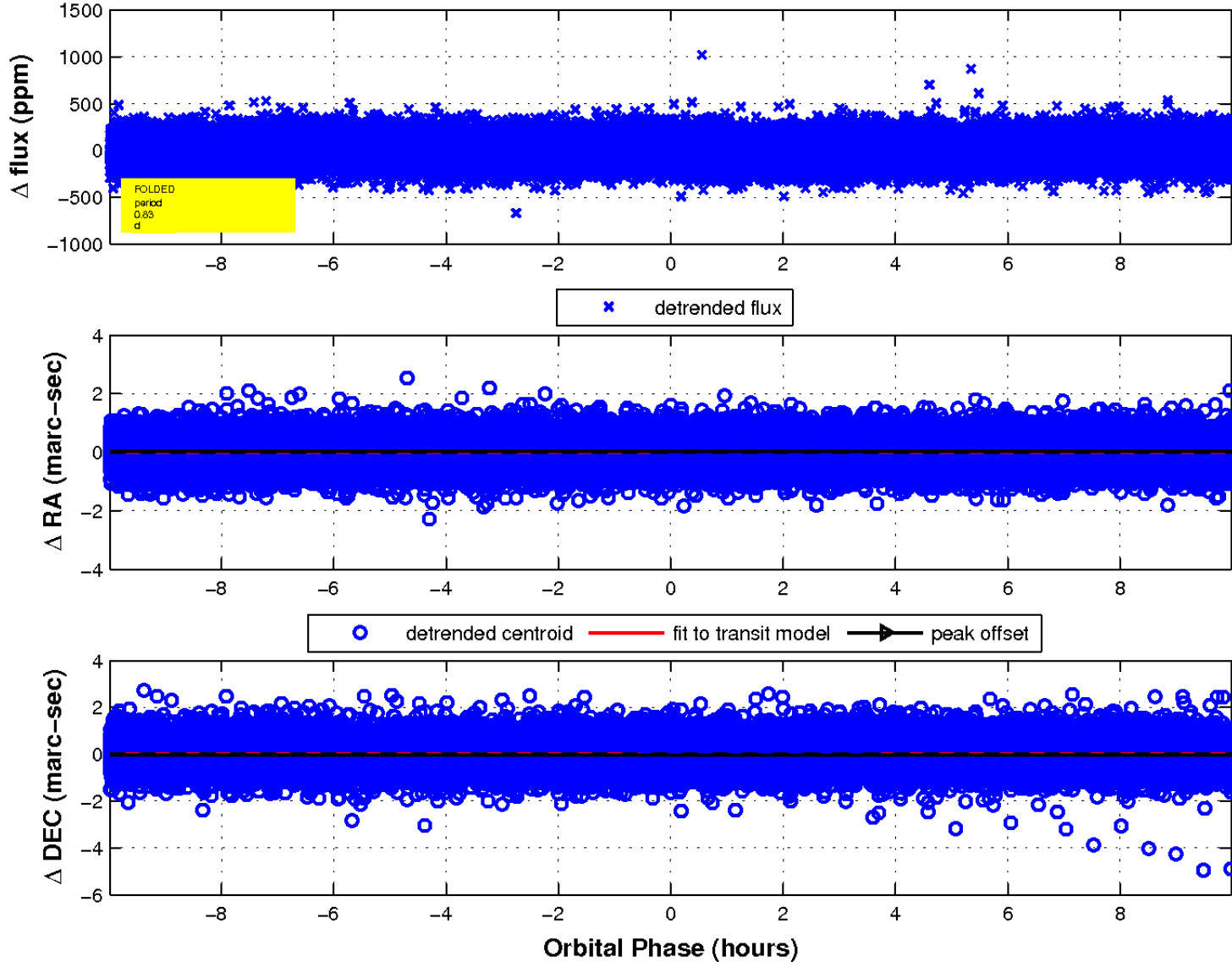
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

