

KIC 005266369

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})
005266369-01	OBS	No	0.741744	131.663997	33.4	1.588	8.3	6.2	7.39	4893	5.19	0.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005266369-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

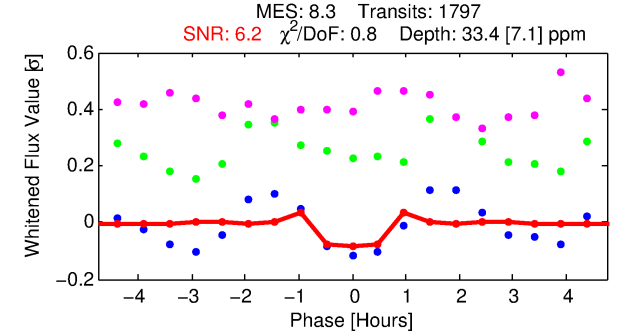
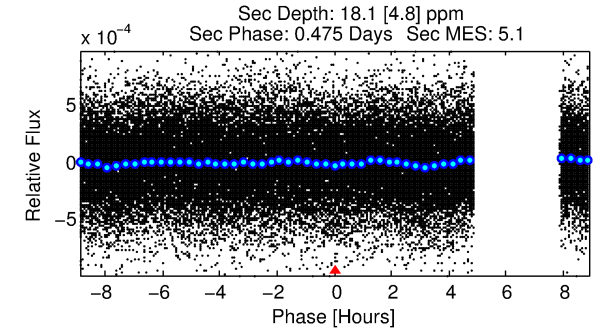
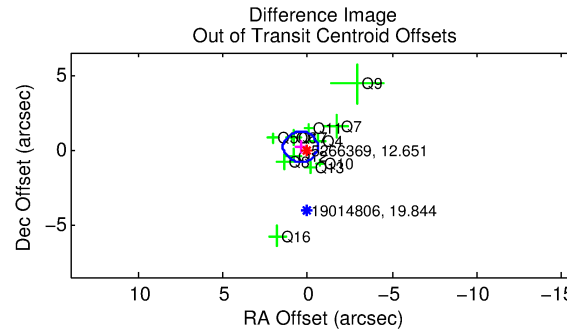
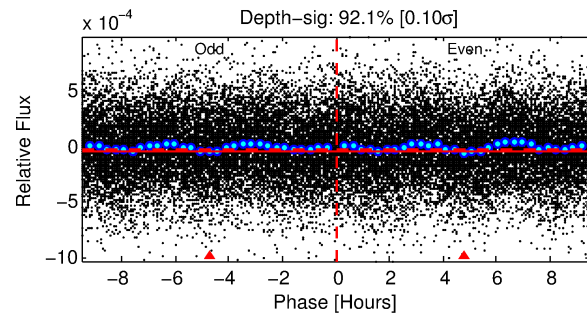
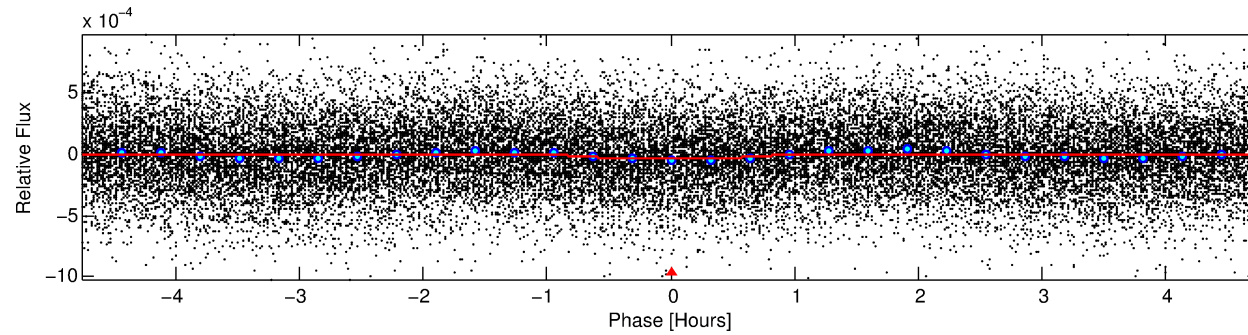
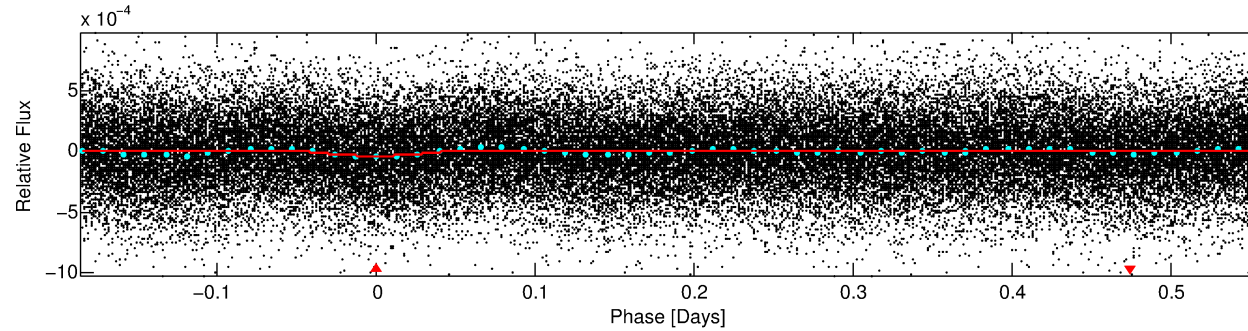
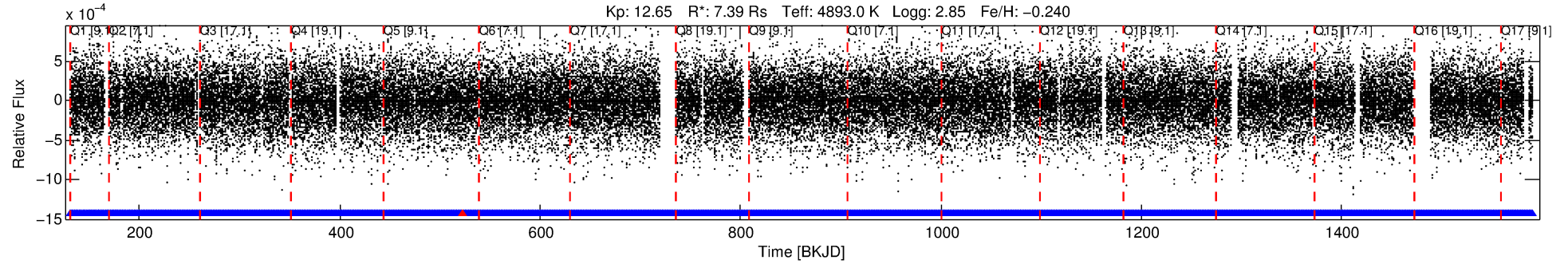
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005266369-01

No Significant Match Found

DV One-Page Summary

KIC: 5266369 Candidate: 1 of 1 Period: 0.742 d



DV Fit Results:

Period = 0.74174 [0.00002] d
Epoch = 131.6640 [0.0021] BKJD
Rp/R* = 0.0064 [0.0027]
a/R* = 1.89 [2.25]
b = 0.90 [0.38]
Seff = N/A
Teq = N/A
Rp = 5.19 [2.31] Re
a = N/A
Ag = N/A
Teffp = N/A

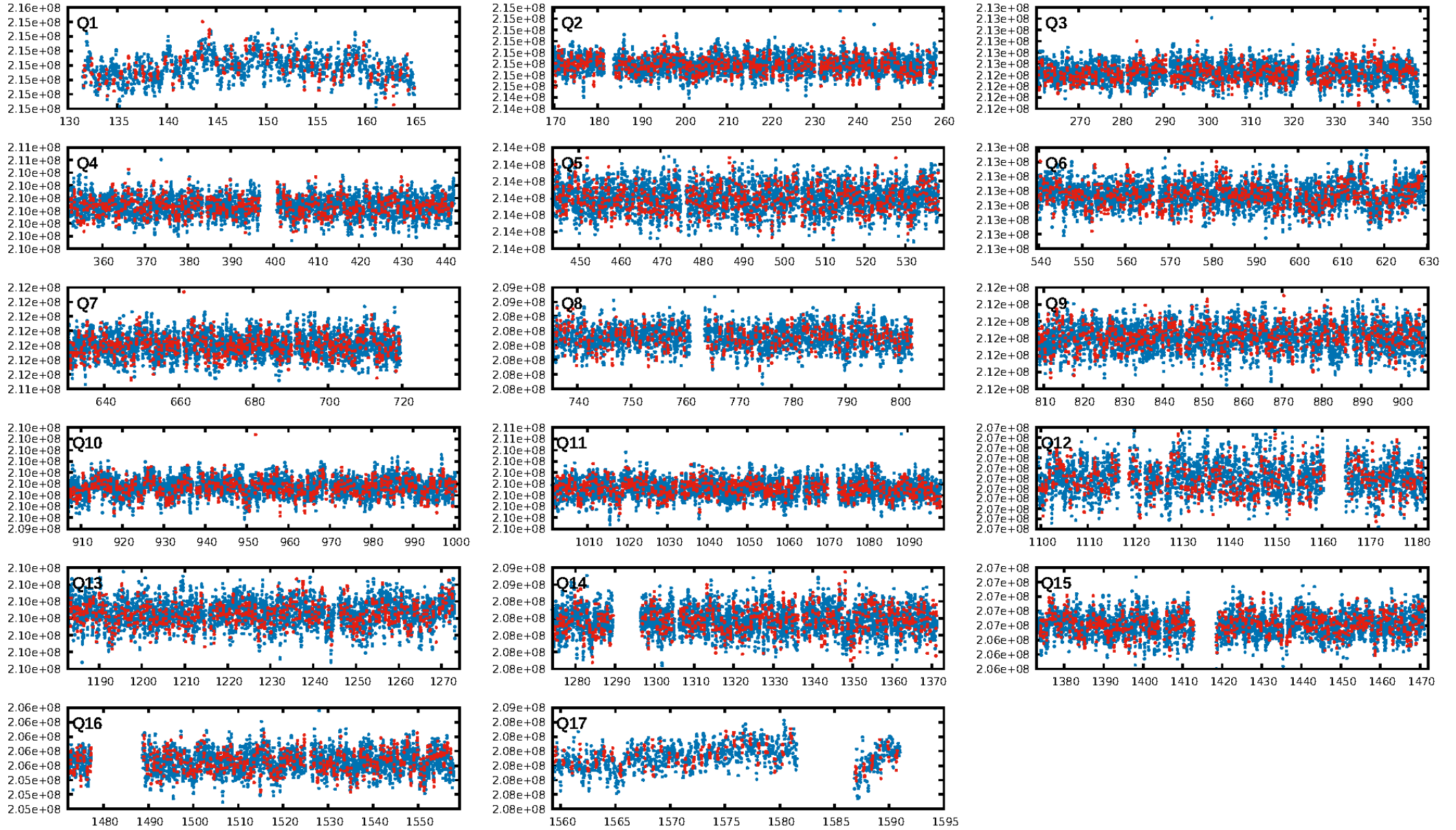
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.44e-17
RollingBand-fgt: 1.00 [1715/1716]
GhostDiagnostic-chr: 14.39
Centroid-sig: N/A
Centroid-so: 0.276 arcsec [0.60 σ]
OotOffset-rm: 0.467 arcsec [1.38 σ]
KicOffset-rm: 0.292 arcsec [0.73 σ]
OotOffset-st: 2/2/4/4 [12]
KicOffset-st: 2/2/4/4 [12]
DiffImageQuality-fgm: 0.67 [8/12]
DiffImageOverlap-fno: 1.00 [17/17]

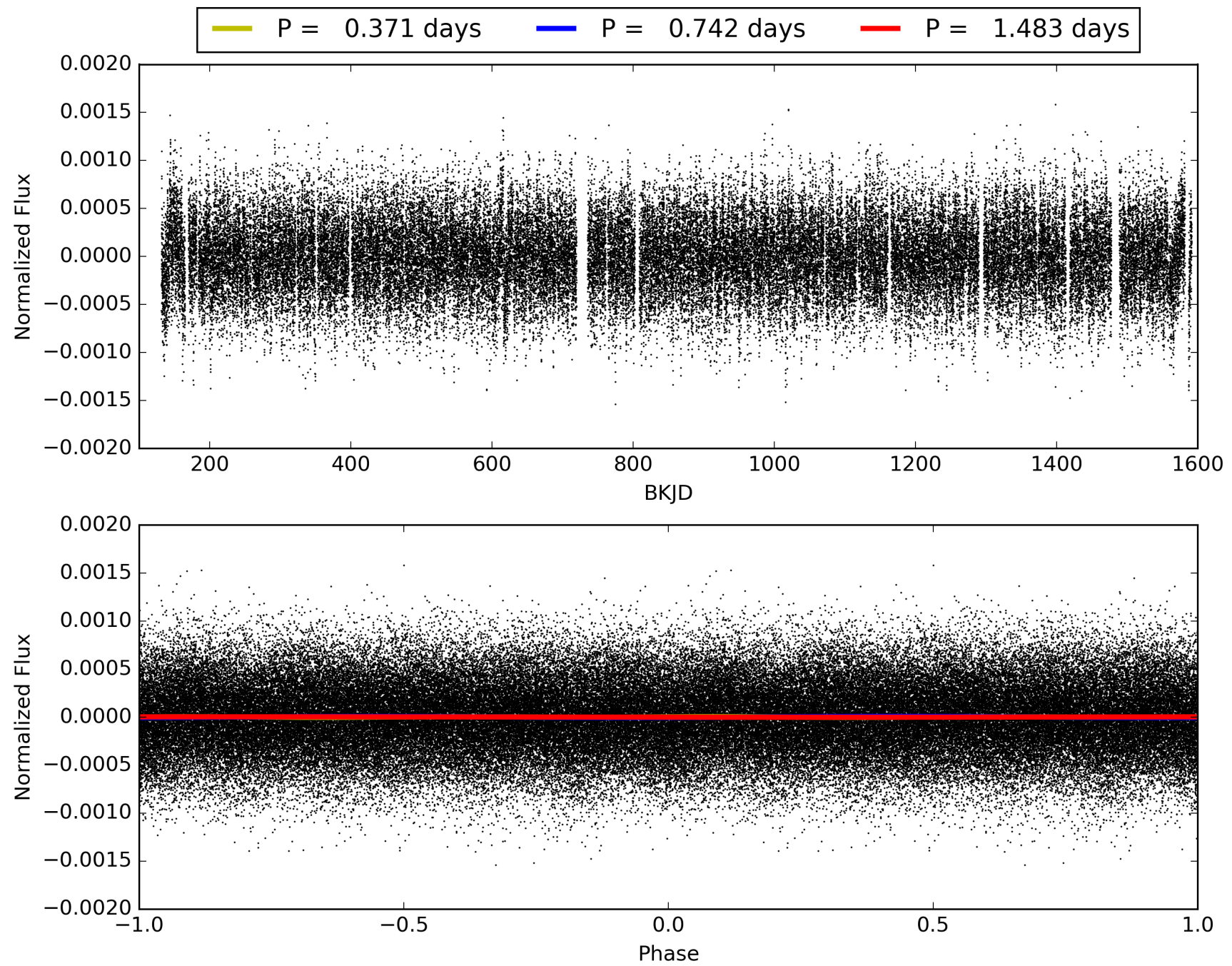
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 19:44:11 Z

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

TCE 005266369-01, PDC Light Curves

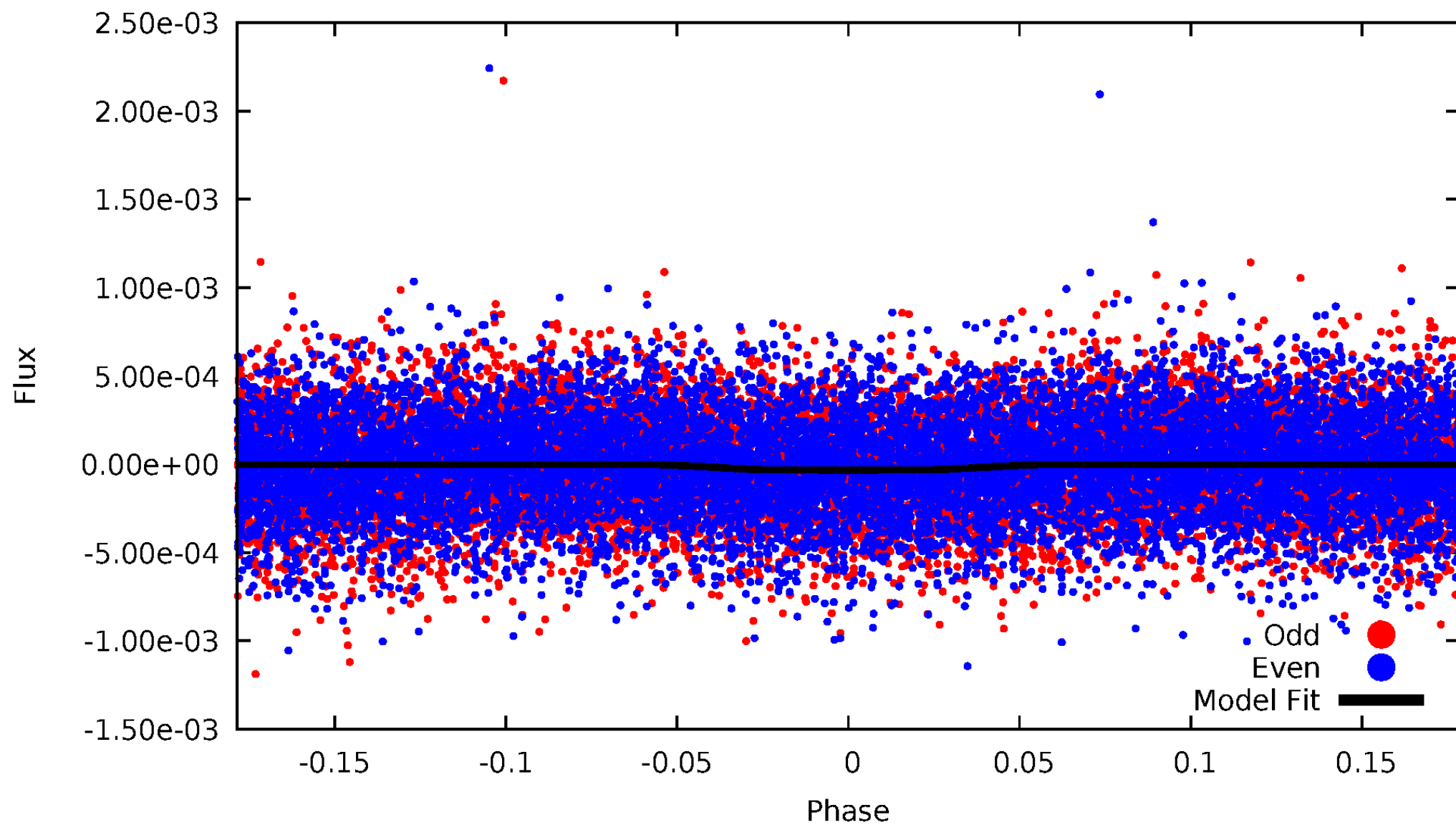


TCE 005266369-01



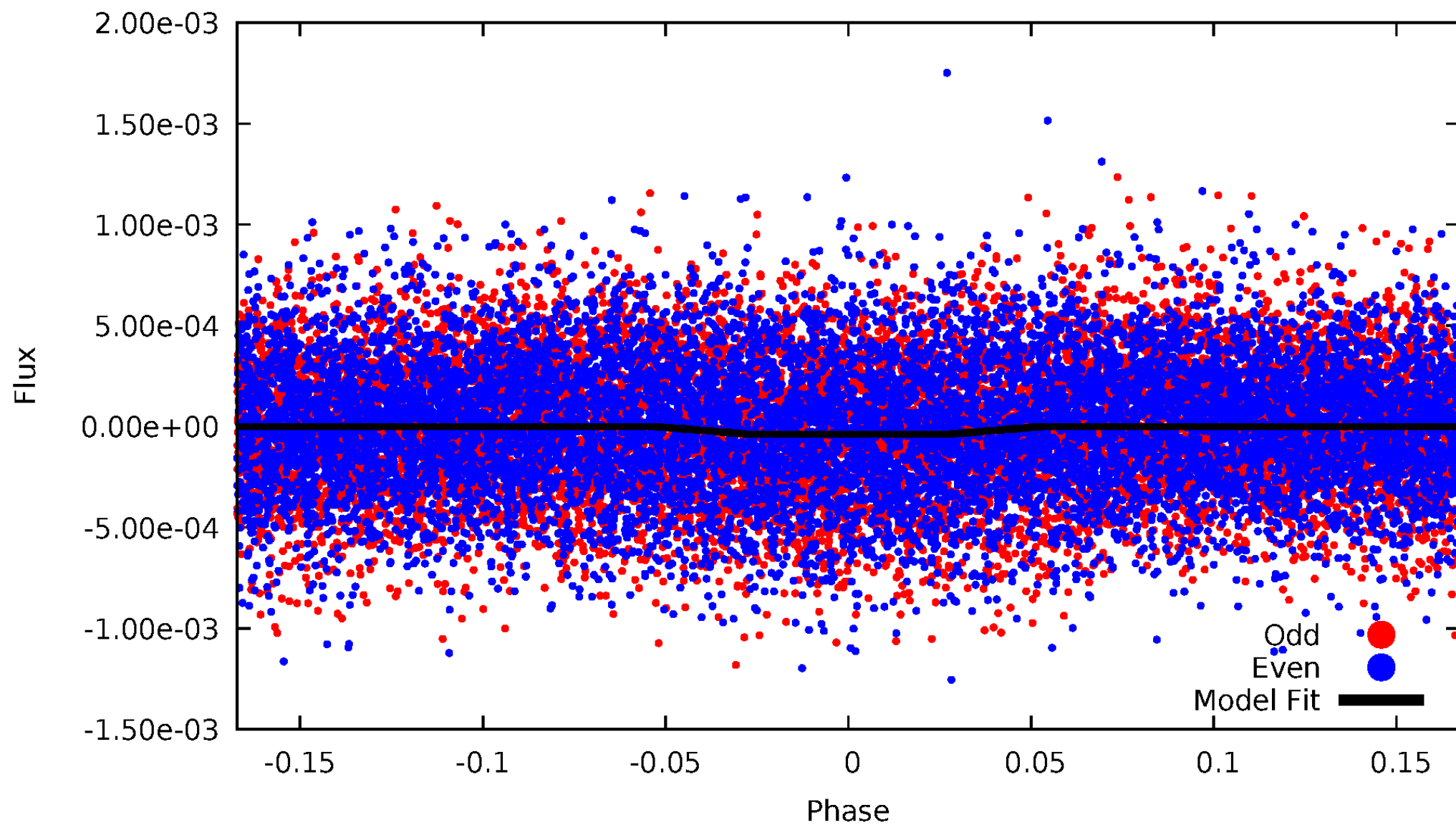
DV Odd/Even

TCE 005266369-01

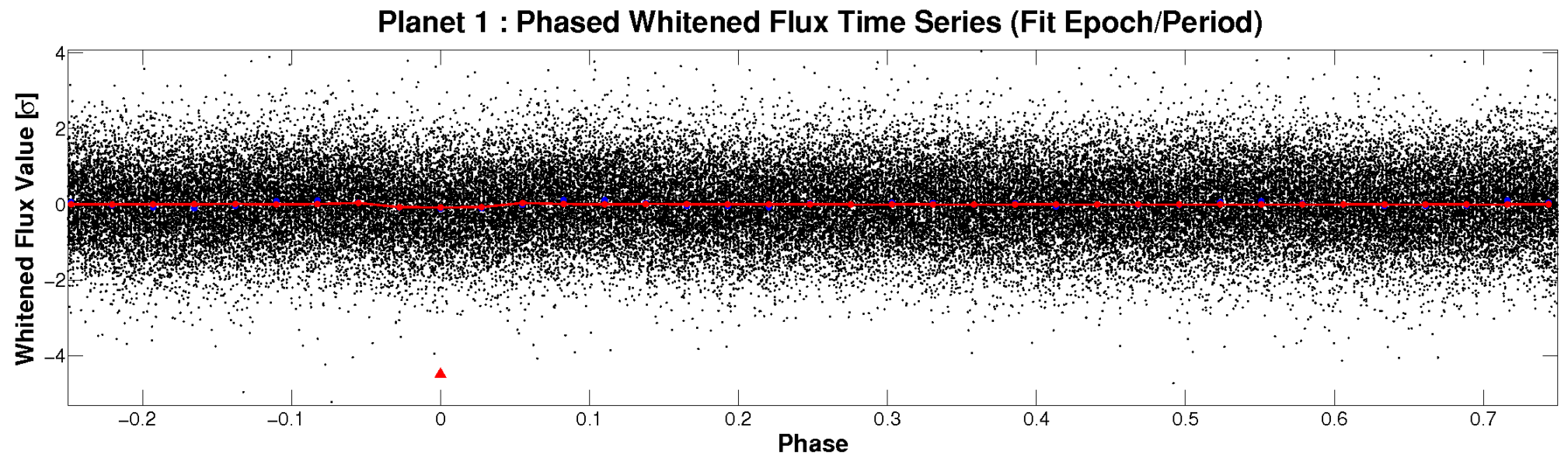
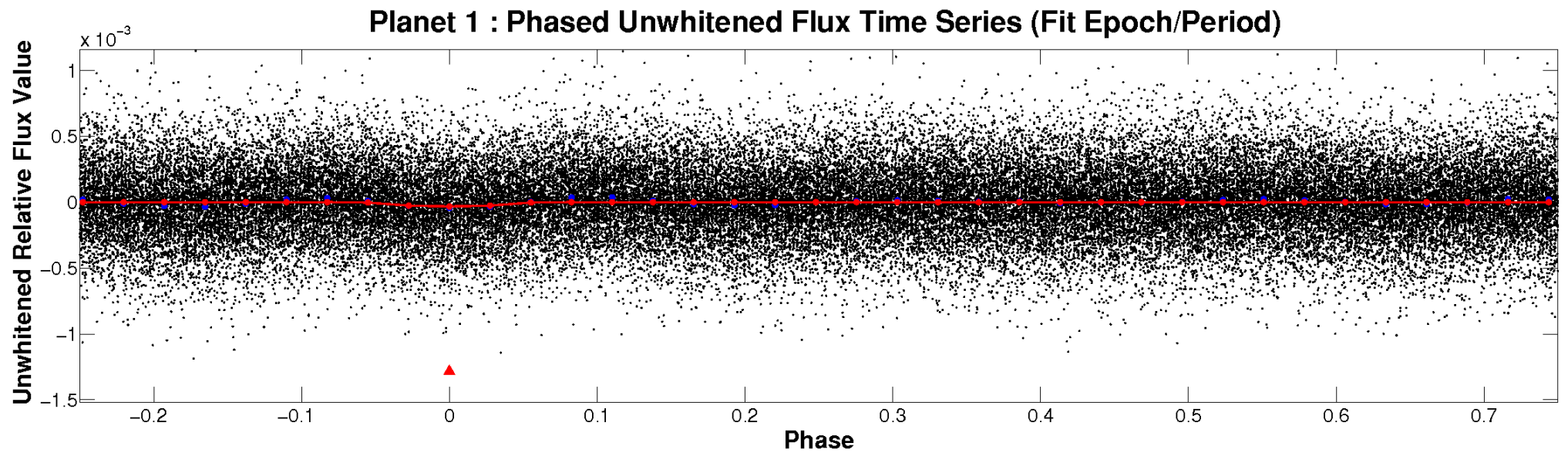


ALT Odd/Even

TCE 005266369-01

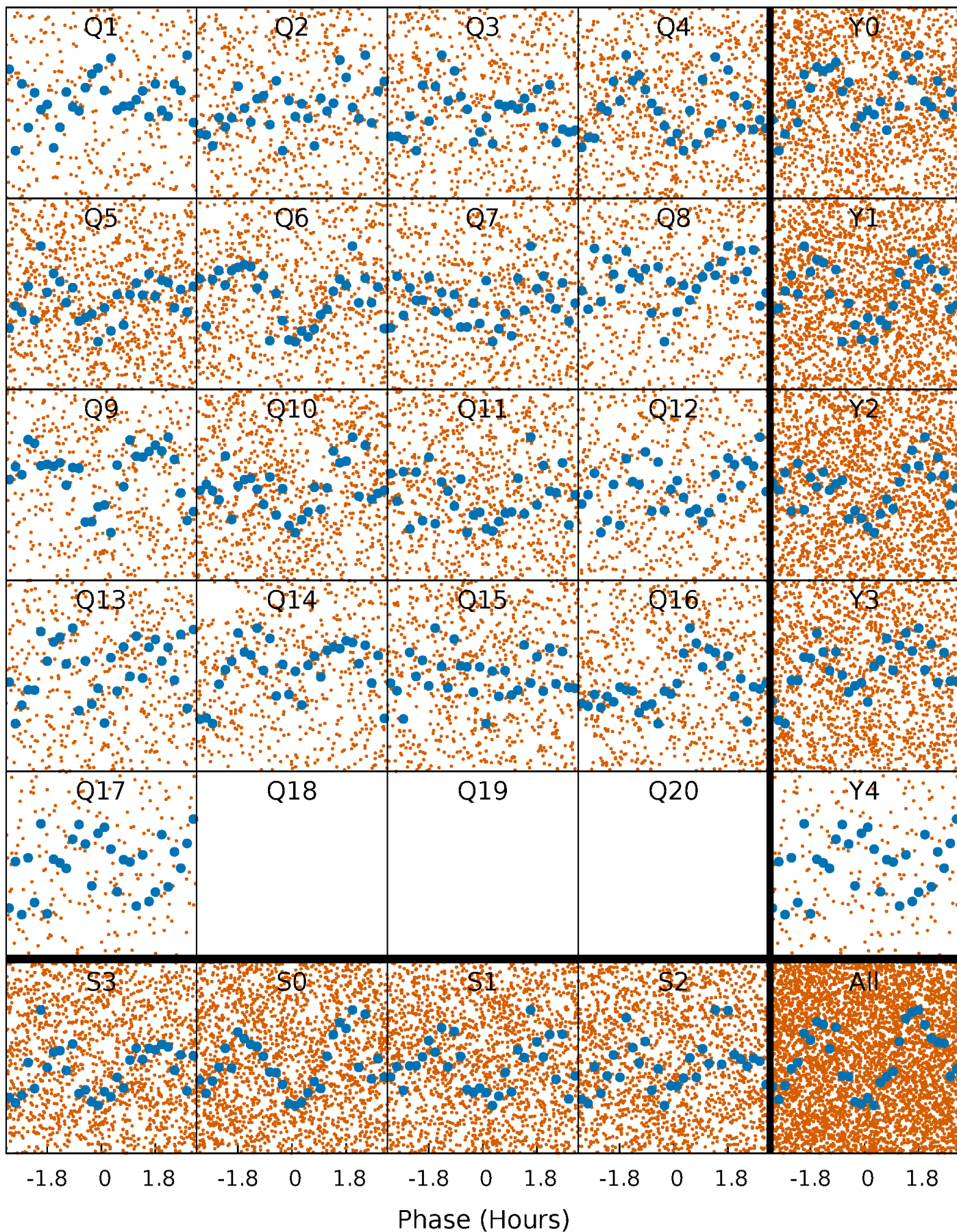


Non-Whitened Vs. Whitened Light Curve



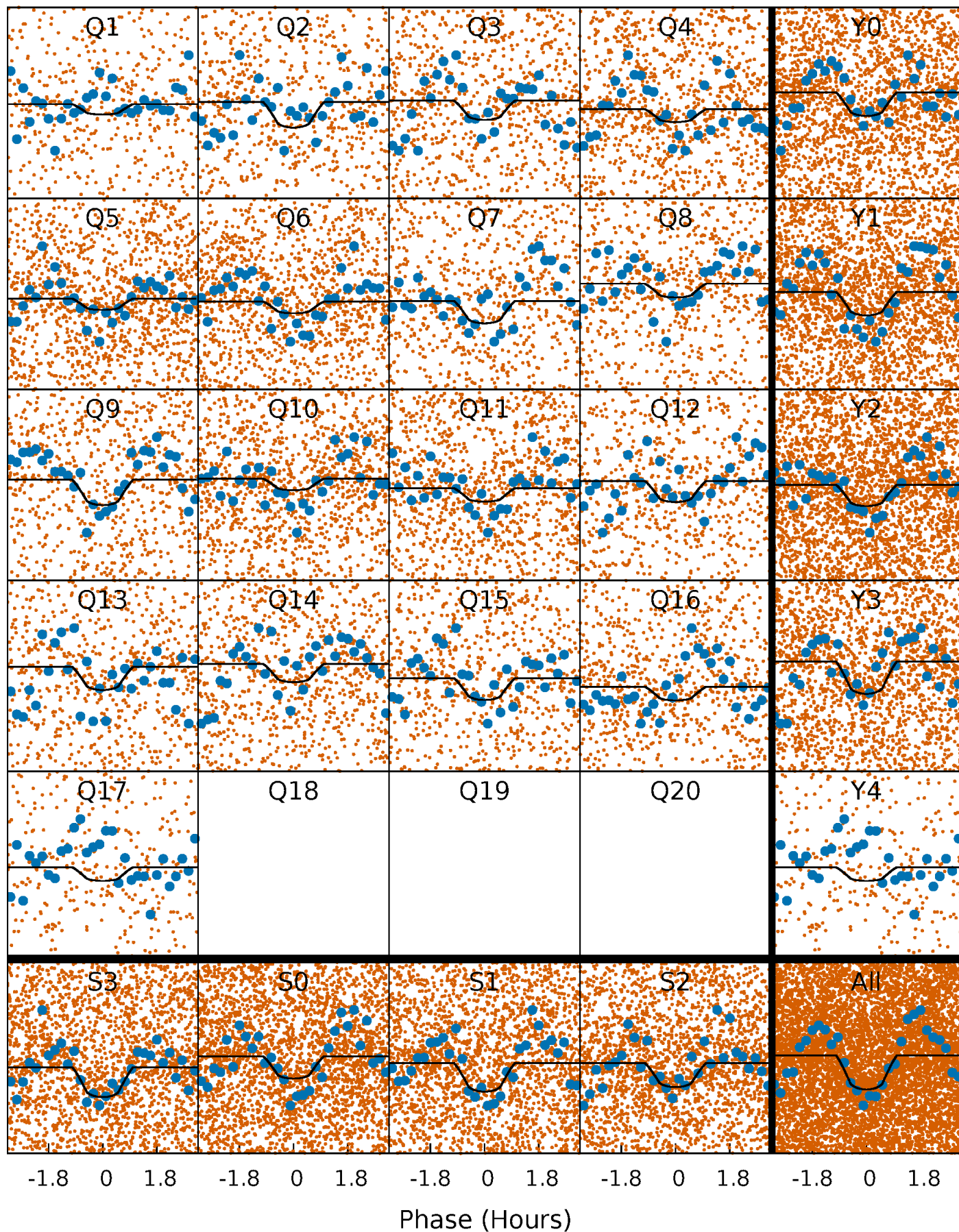
PDC Quarter-Phased Transit Curves

TCE 005266369-01 P= 0.741744 Days $T_0=131.663997$ (BKJD)



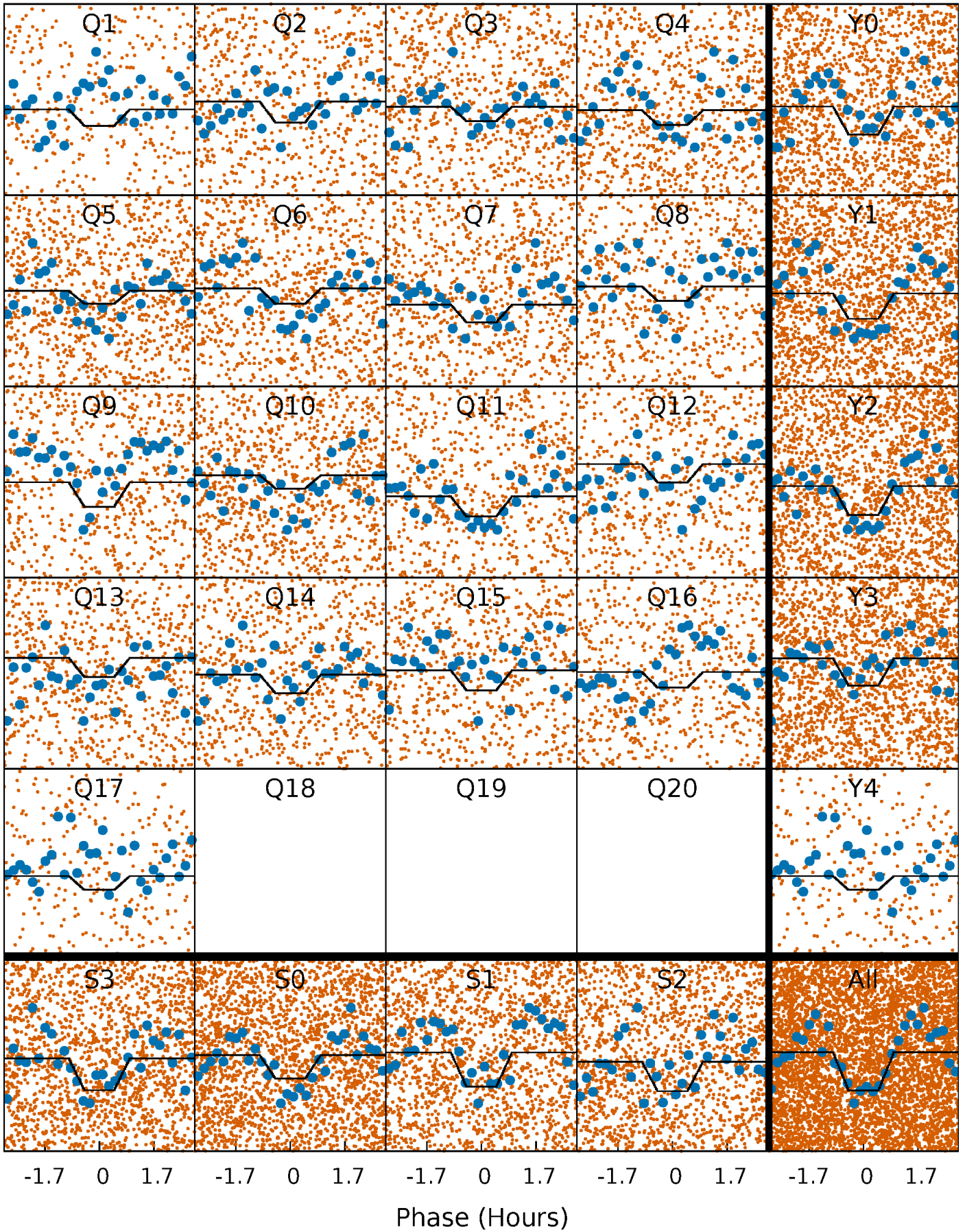
DV Quarter-Phased Transit Curves

TCE 005266369-01 P= 0.741744 Days $T_0=131.663997$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

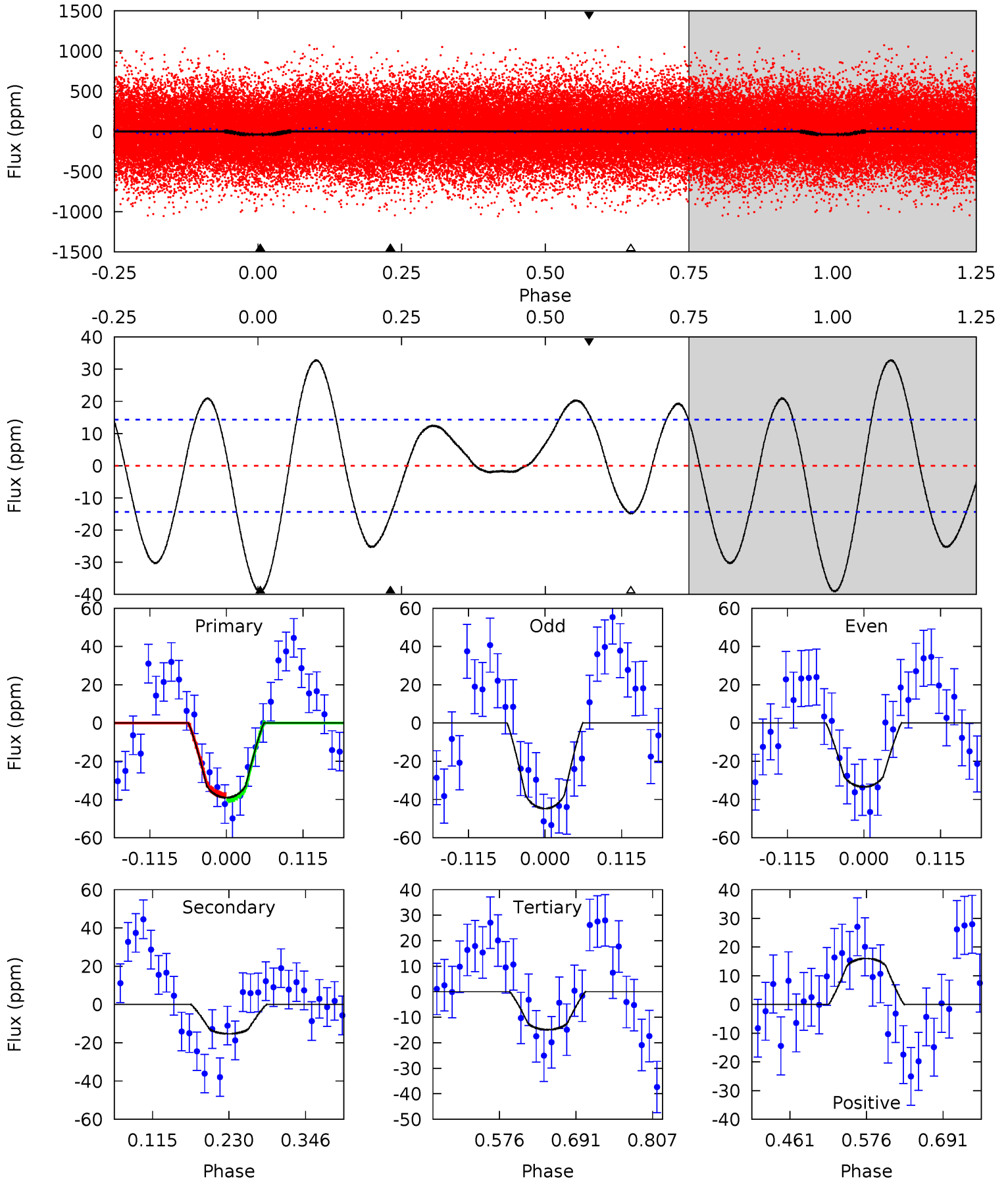
TCE 005266369-01 P= 0.741749 Days $T_0=131.663368$ (BKJD)



DV Model-Shift Uniqueness Test

005266369-01, P = 0.741744 Days, E = 130.922253 Days

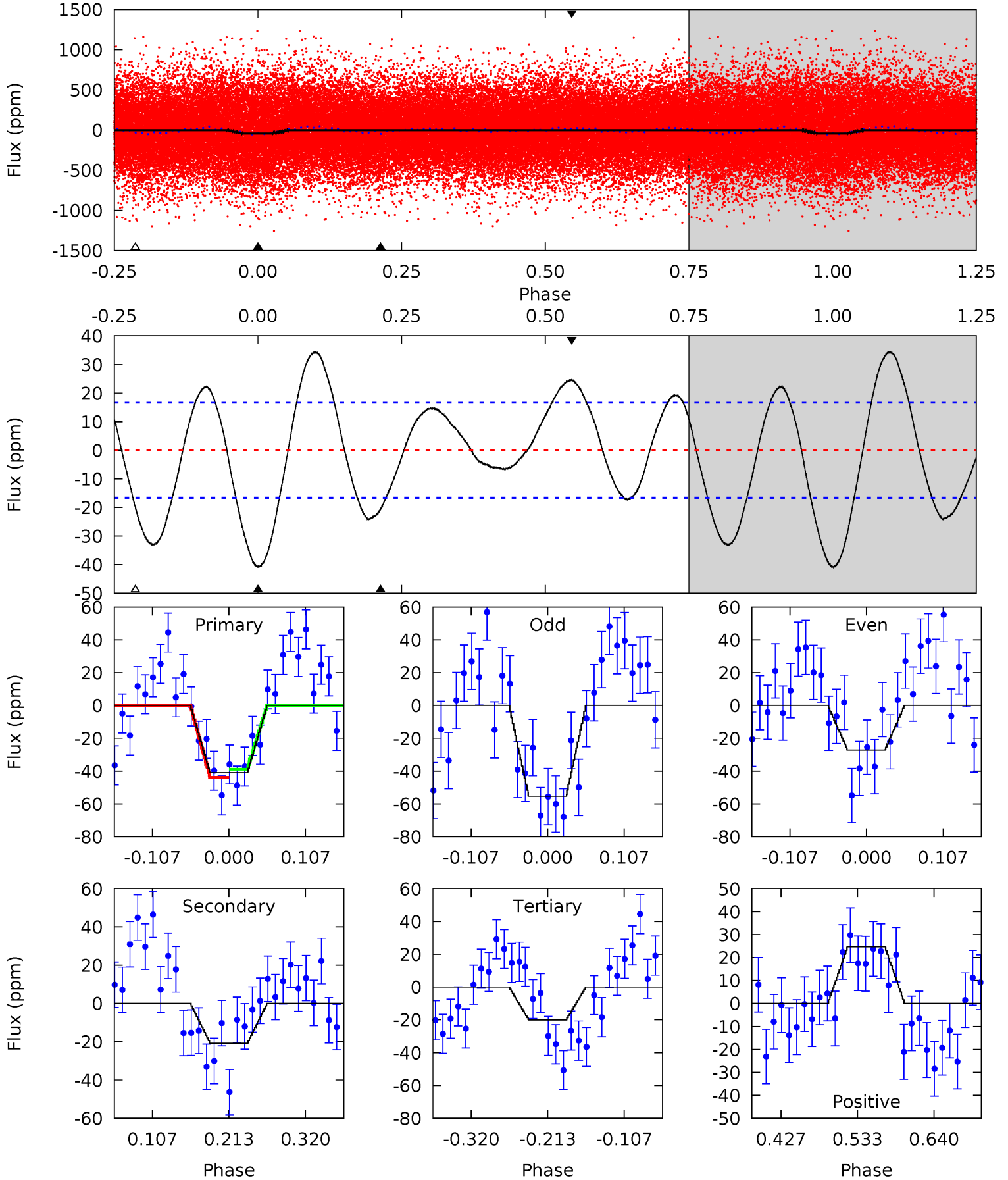
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.3	4.84	4.70	5.08	4.53	1.58	4.20	7.64	7.27	0.13	-0.24	1.80	1.21	0.46	0.39



Alt Model-Shift Uniqueness Test

005266369-01, P = 0.741749 Days, E = 130.921619 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	5.66	5.48	6.74	4.55	1.61	4.08	5.73	4.47	0.18	-1.08	3.82	0.99	0.46	0.67



Stellar Parameters For KIC 005266369

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4893^{+51}_{-65}	$2.848^{+0.030}_{-0.030}$	$-0.240^{+0.100}_{-0.150}$	$7.395^{+0.560}_{-1.040}$	$1.406^{+0.168}_{-0.364}$	$0.005^{+0.001}_{-0.001}$
	+1%/-1%	+1%/-1%	+42%/-62%	+8%/-14%	+12%/-26%	+21%/-11%
Source	SPE74	AST9	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005266369-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-15 ± 3	$5.23^{+2.13}_{-2.34}$	6122^{+114}_{-125}	-4577^{+7755}_{-247}	$0.099^{+0.227}_{-0.051}$
Alt.	-21 ± 4	$5.20^{+2.21}_{-2.19}$	6131^{+109}_{-141}	-4405^{+8650}_{-345}	$0.138^{+0.291}_{-0.072}$

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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

DV Centroid Data

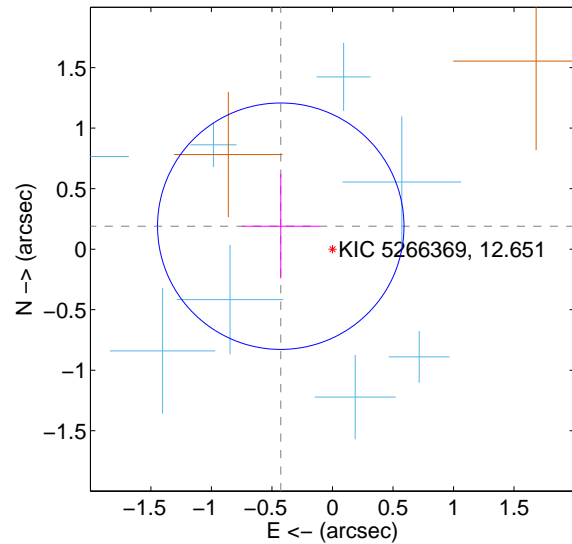
Supplemental centroid analysis for 005266369-01. Kepler magnitude: 12.65. Transit SNR 6.23

There are 8 quarters with good PRF difference image offsets

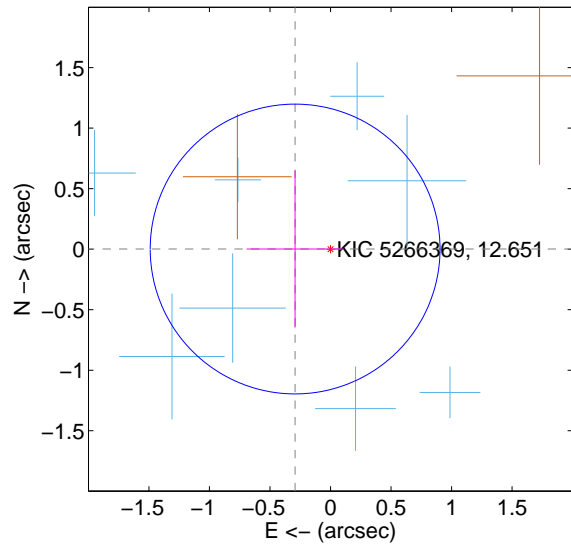
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.467 ± 0.339	1.38	0.427 ± 0.318	0.190 ± 0.432
PRF-fit source offset from KIC position	0.292 ± 0.399	0.73	0.292 ± 0.401	0.001 ± 0.649
photometric centroid source offset	0.28 ± 0.46	0.60	-0.22 ± 0.44	0.17 ± 0.50

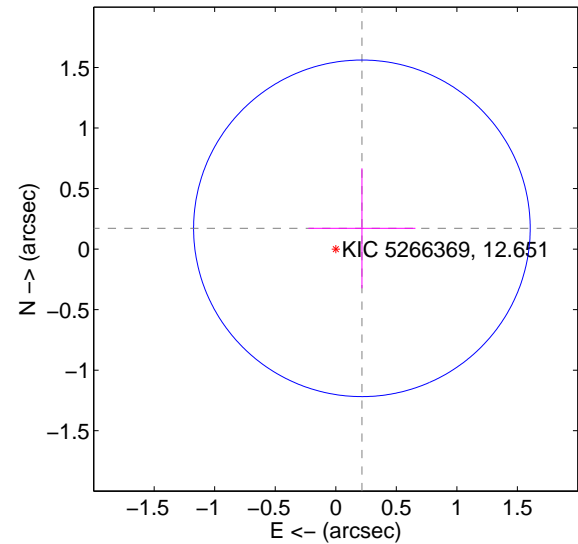
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

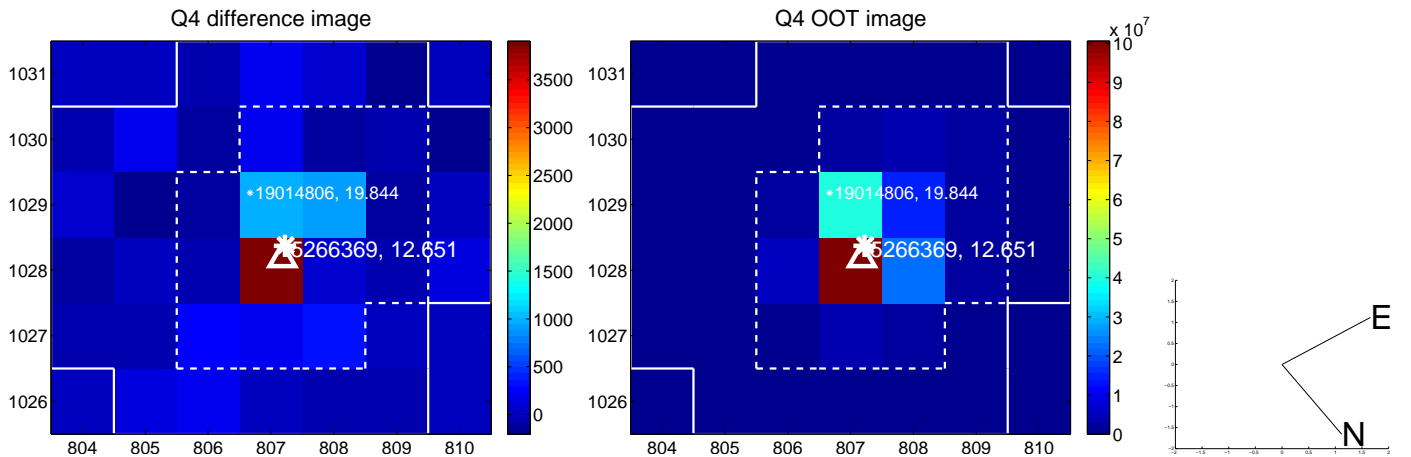
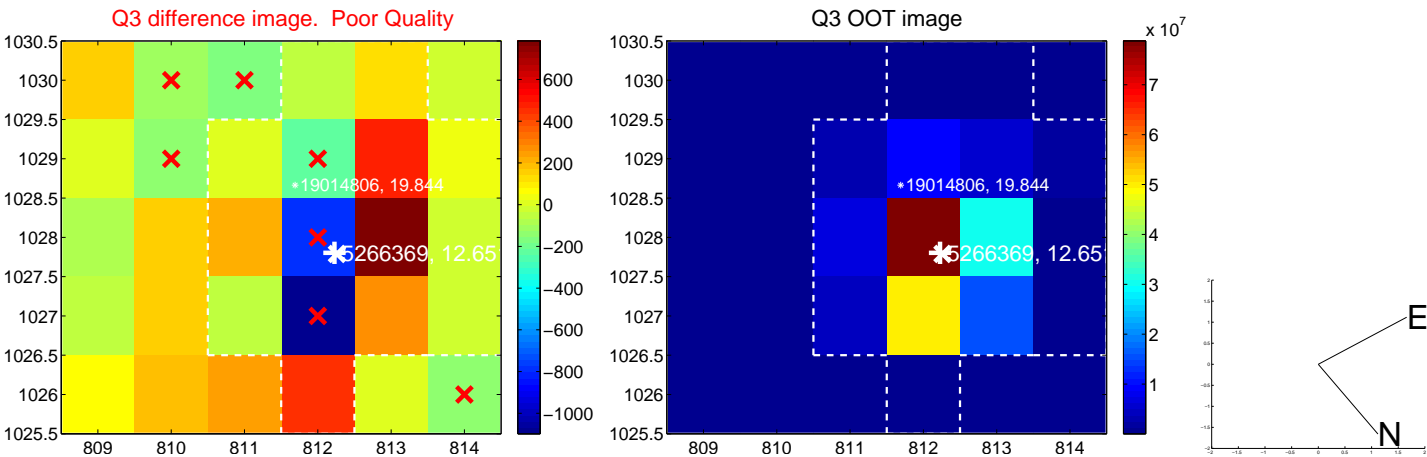
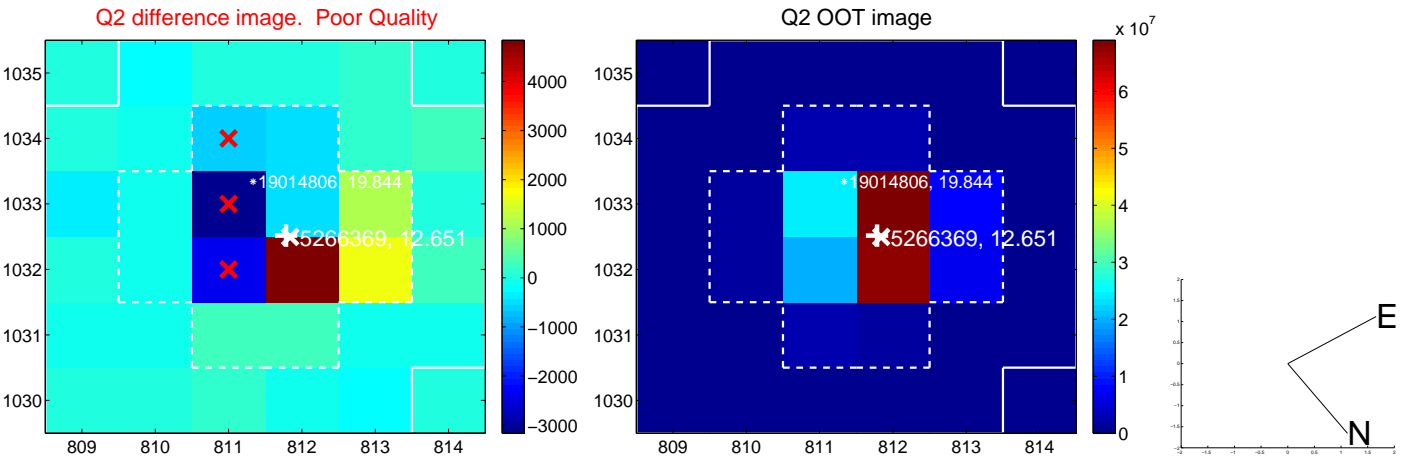
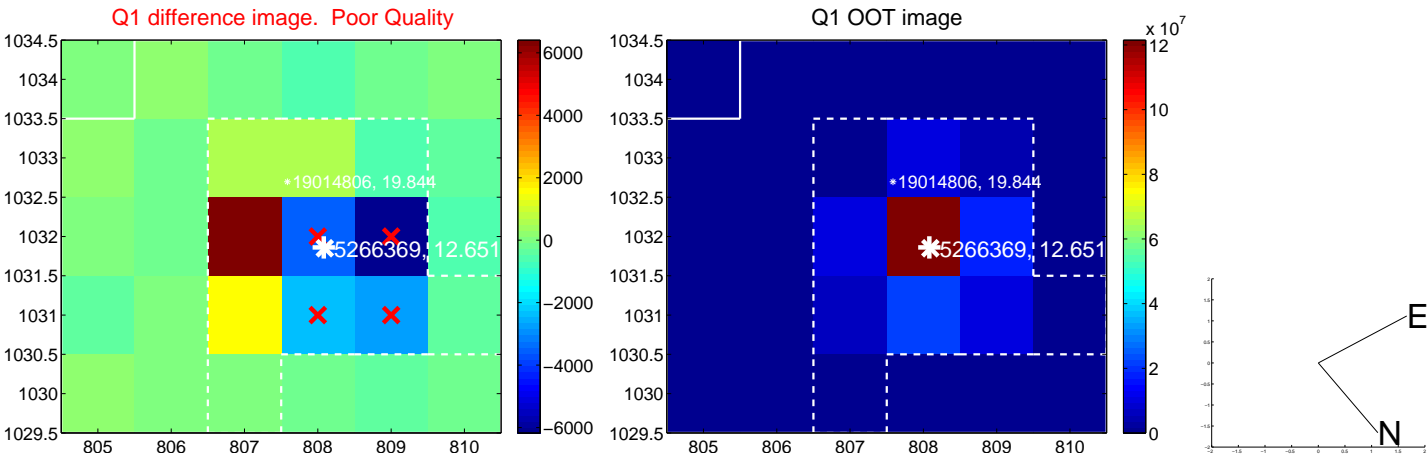


offset from photometric centroids

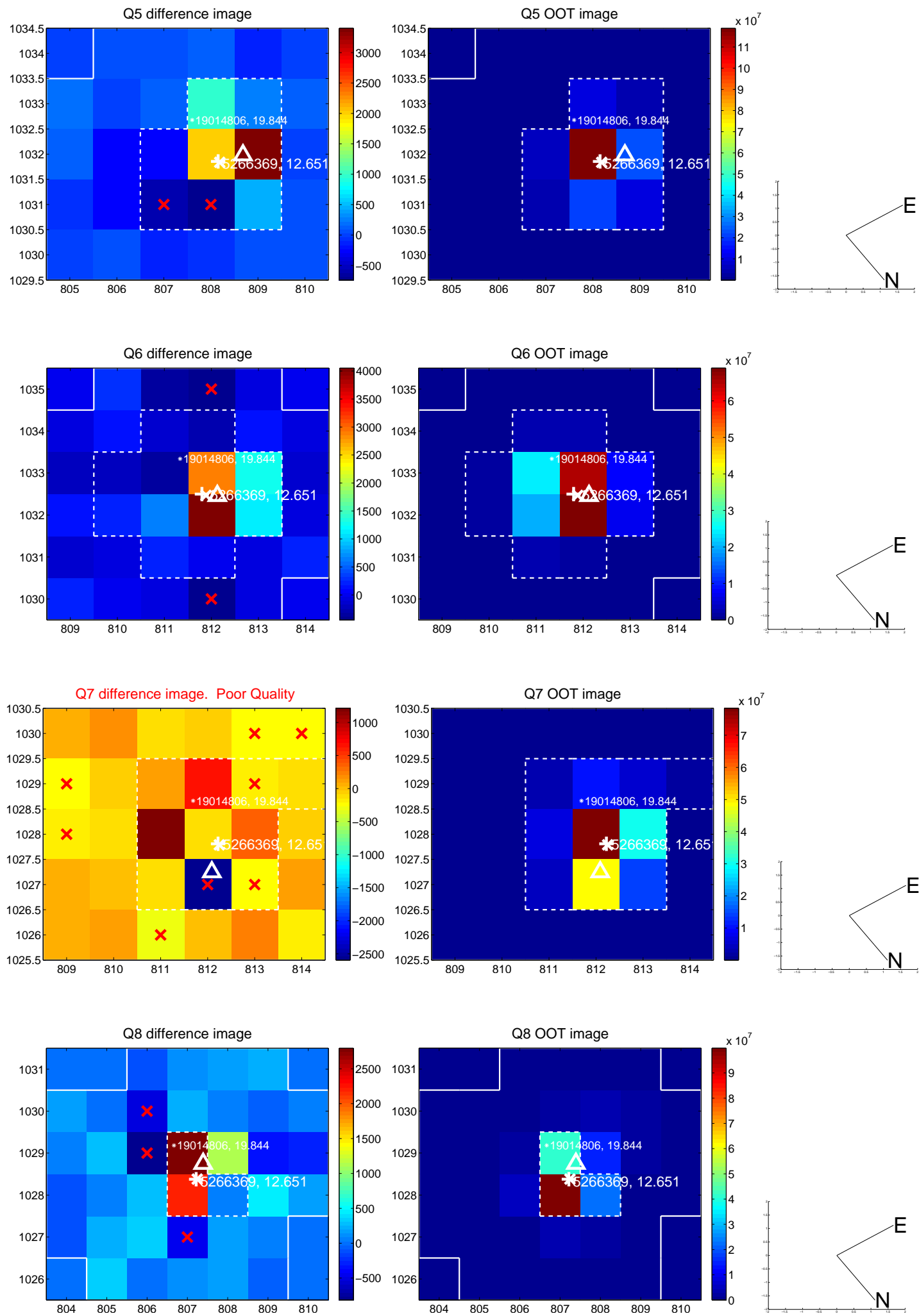


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- 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.

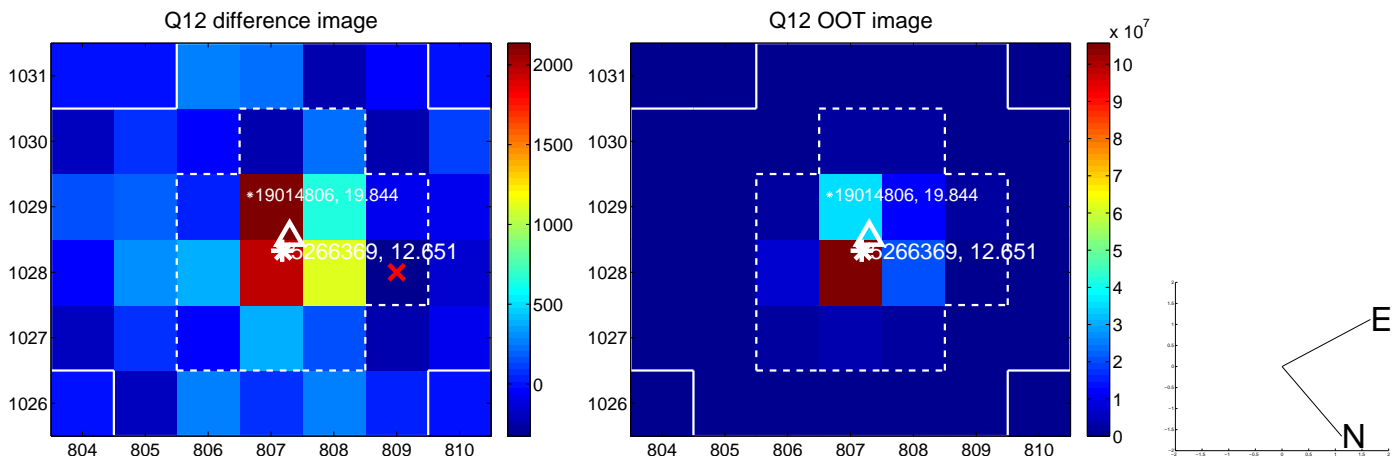
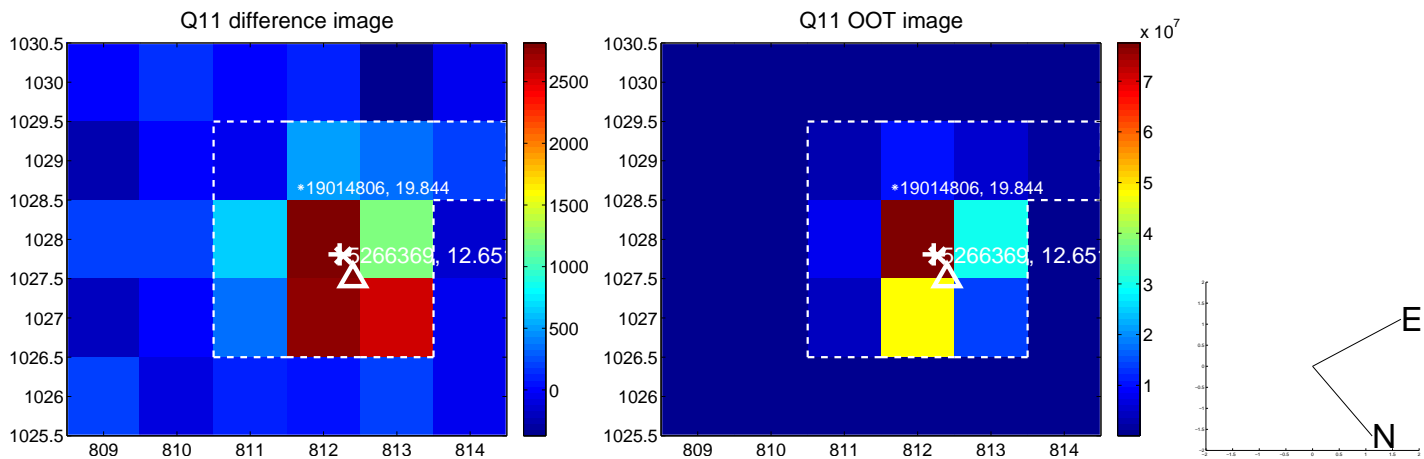
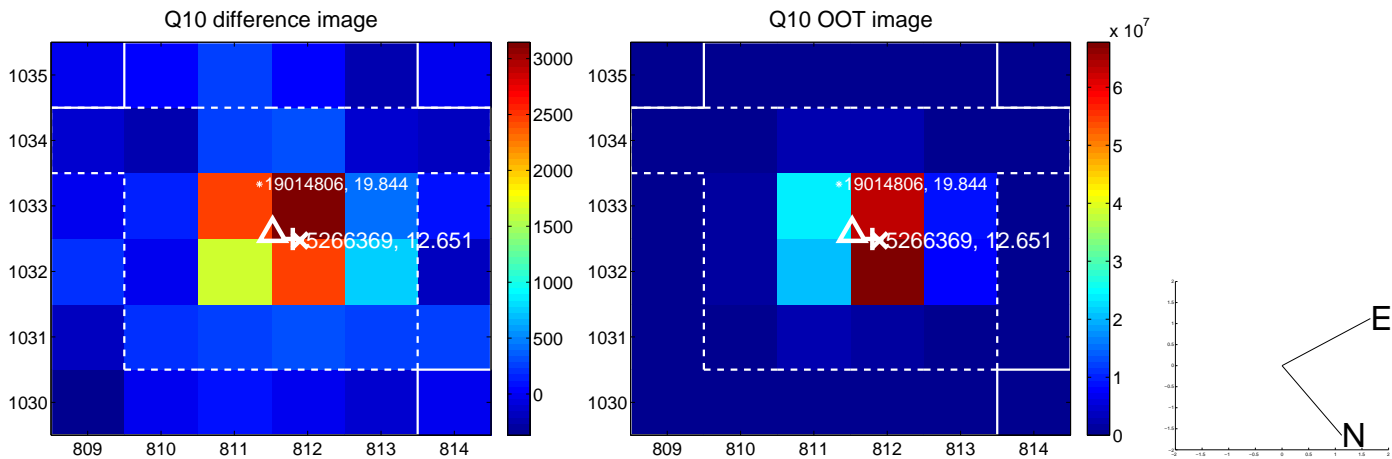
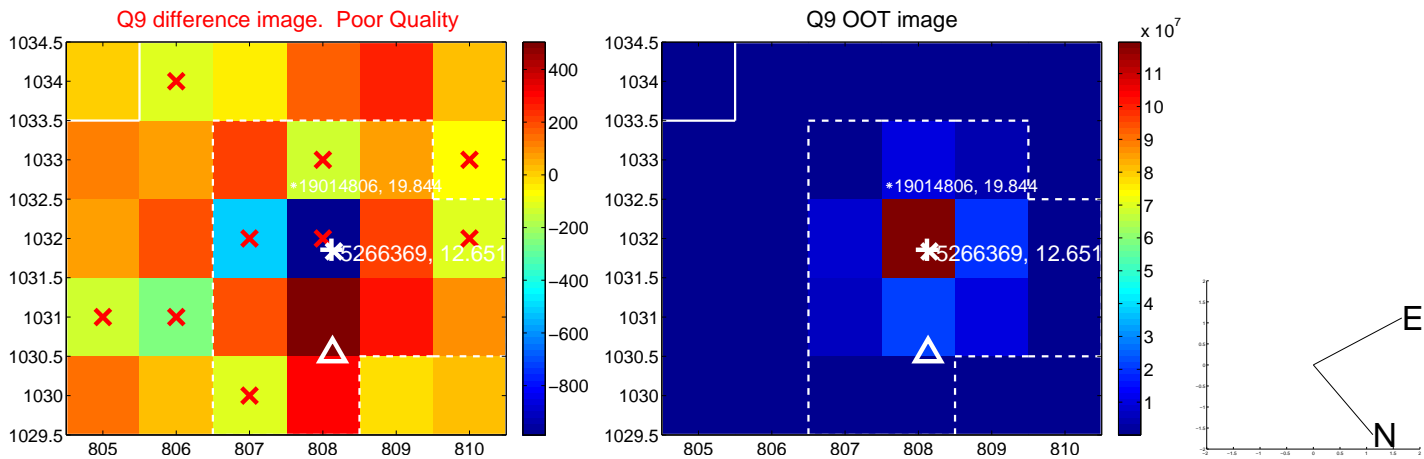
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



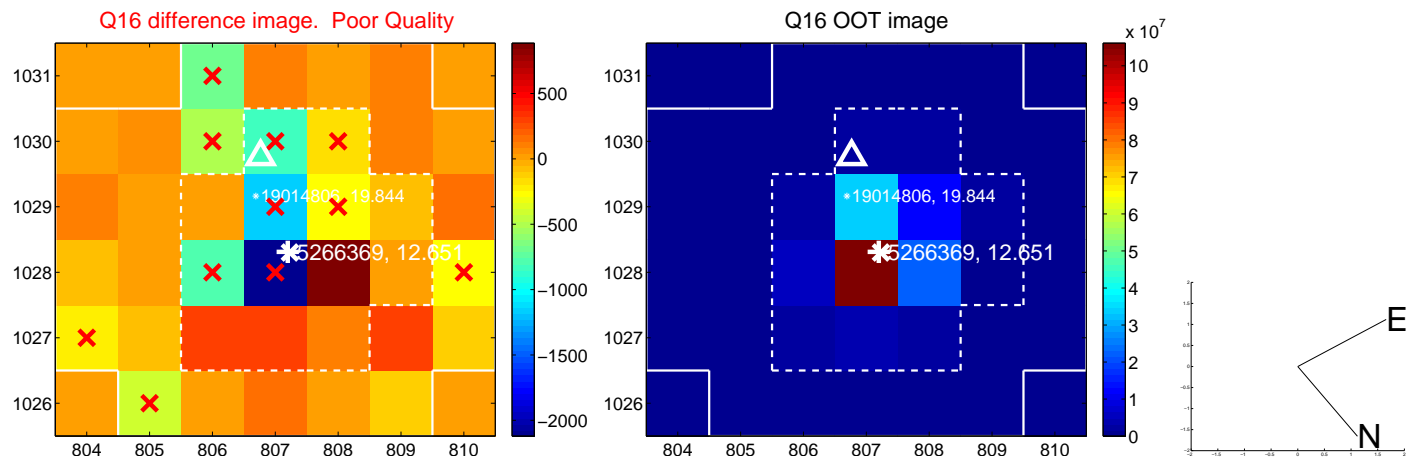
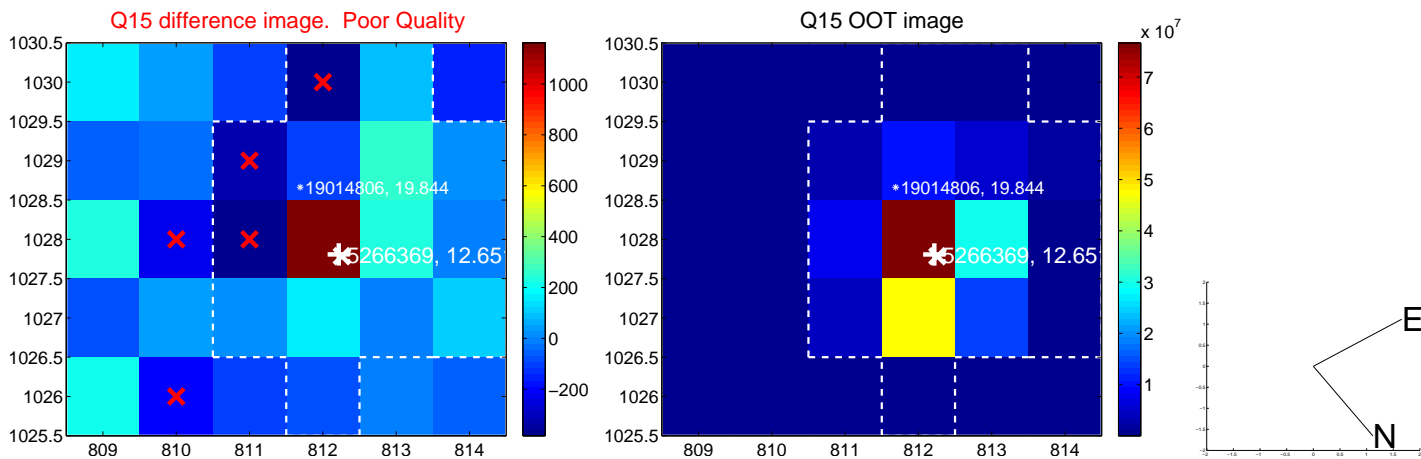
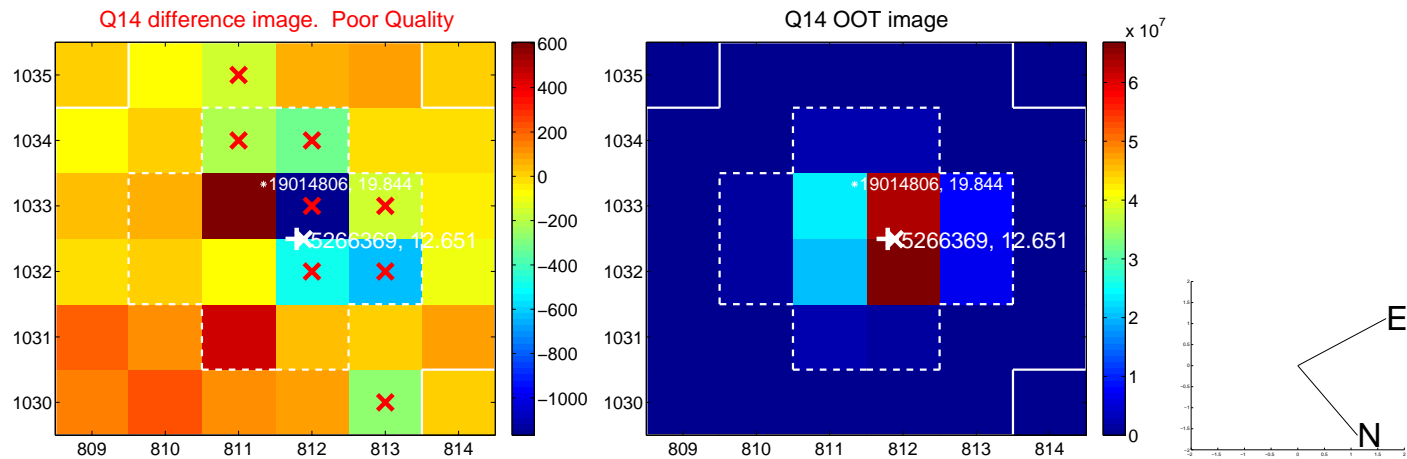
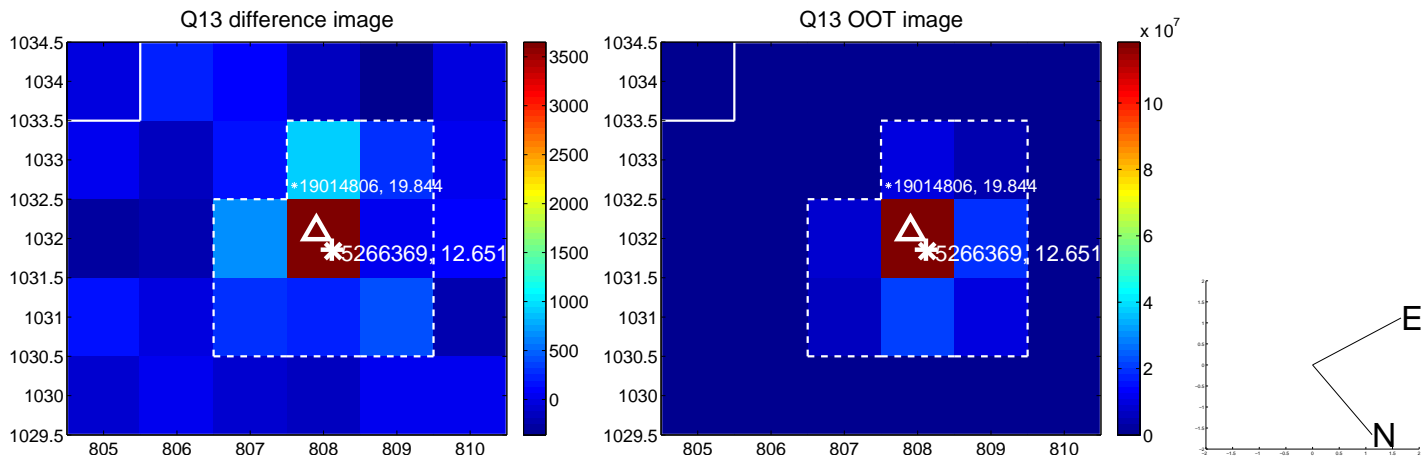
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



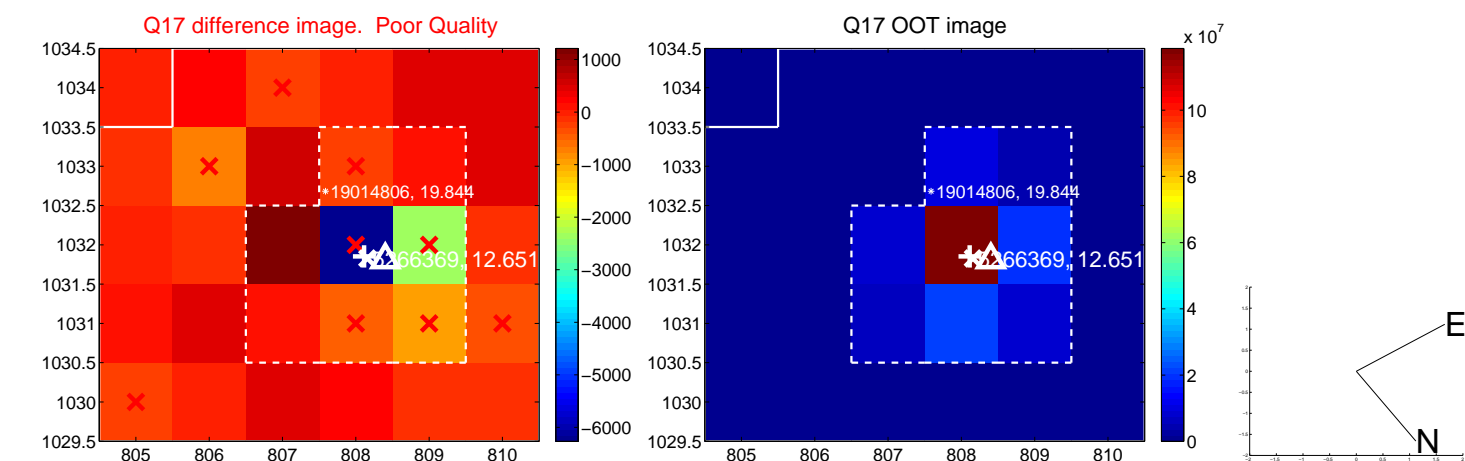
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



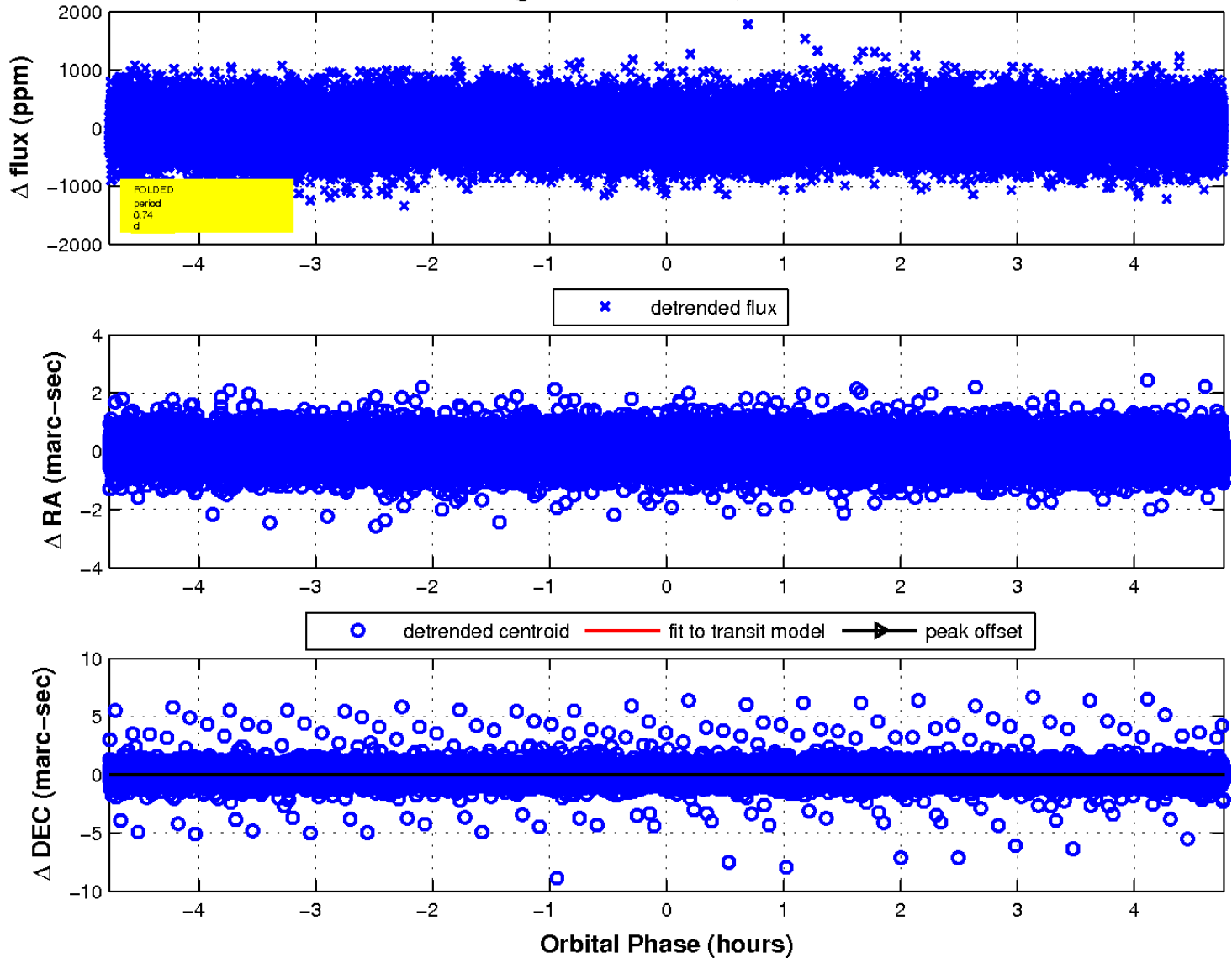
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

