

KIC 008264767

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})
008264767-01	OBS	No	1.379054	132.331435	16.2	10.844	8.6	11.4	1.80	8225	0.77	14808.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264767-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS

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

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

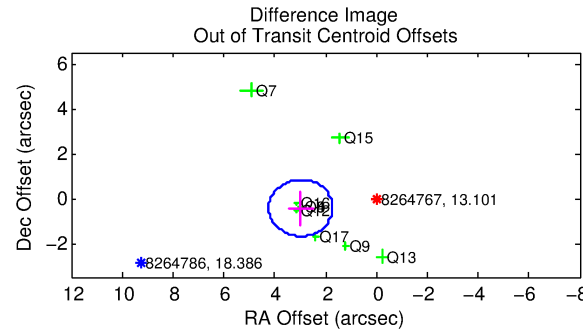
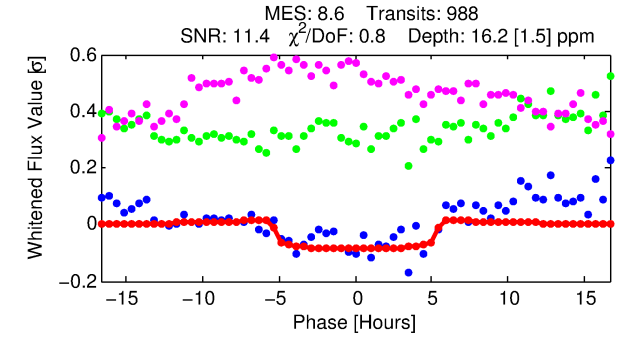
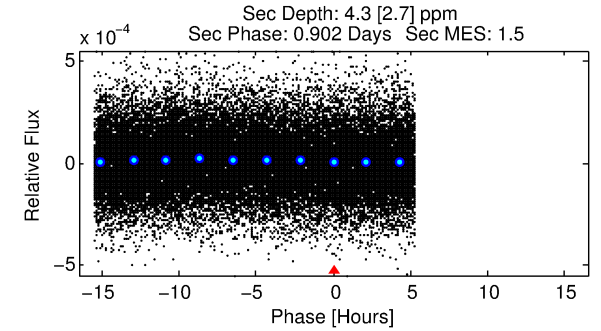
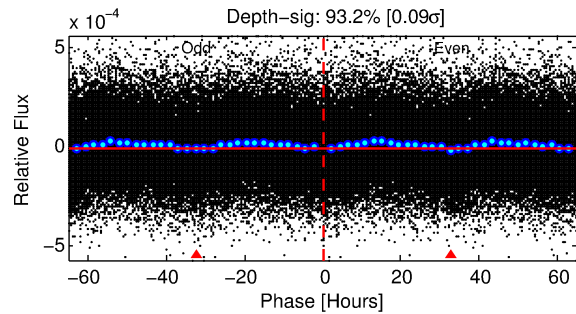
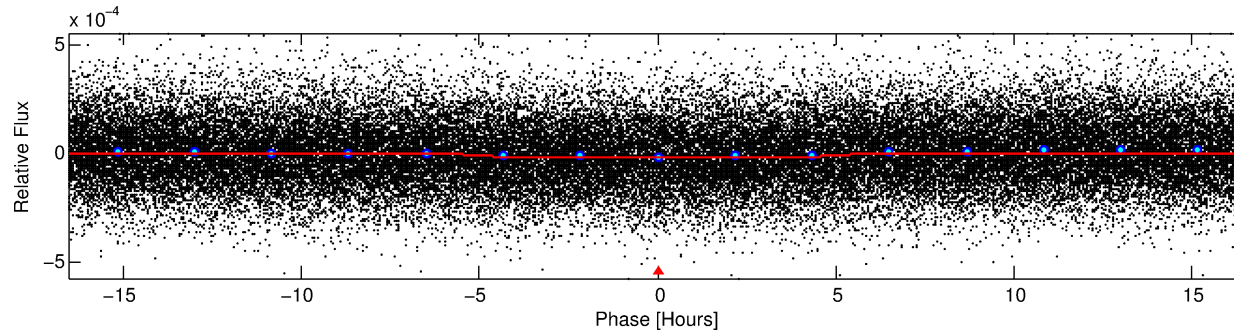
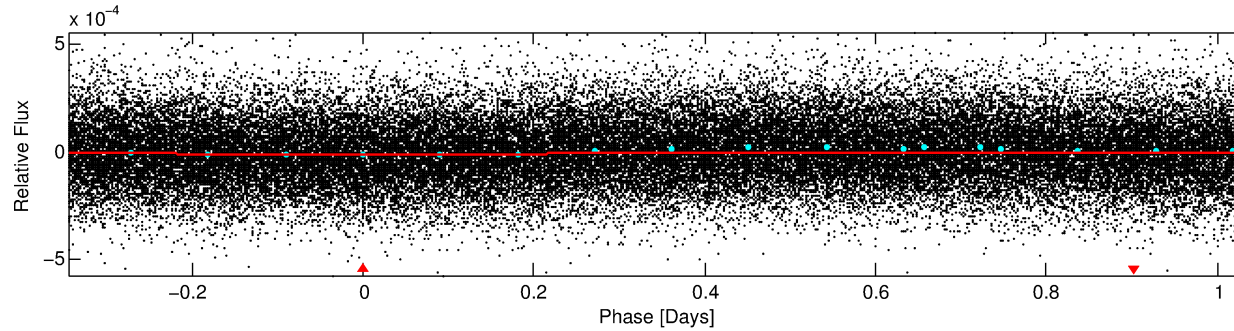
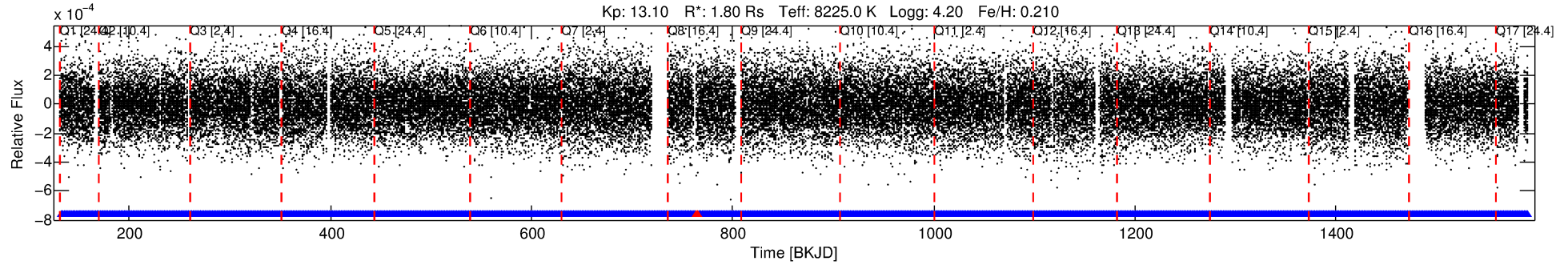
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264767-01

No Significant Match Found

DV One-Page Summary

KIC: 8264767 Candidate: 1 of 1 Period: 1.379 d



DV Fit Results:

Period = 1.37905 [0.00002] d
Epoch = 132.3314 [0.0071] BKJD
Rp/R* = 0.0039 [0.0027]
a/R* = 1.11 [0.84]
b = 0.64 [3.86]
Seff = 14808.10 [6095.74]
Teq = 2813 [289] K
Rp = 0.77 [0.58] Re
a = 0.0300 [0.0077] AU
Ag = 3.61 [5.63] [0.46 σ]
Teffp = 5994 [2287] K [1.38 σ]

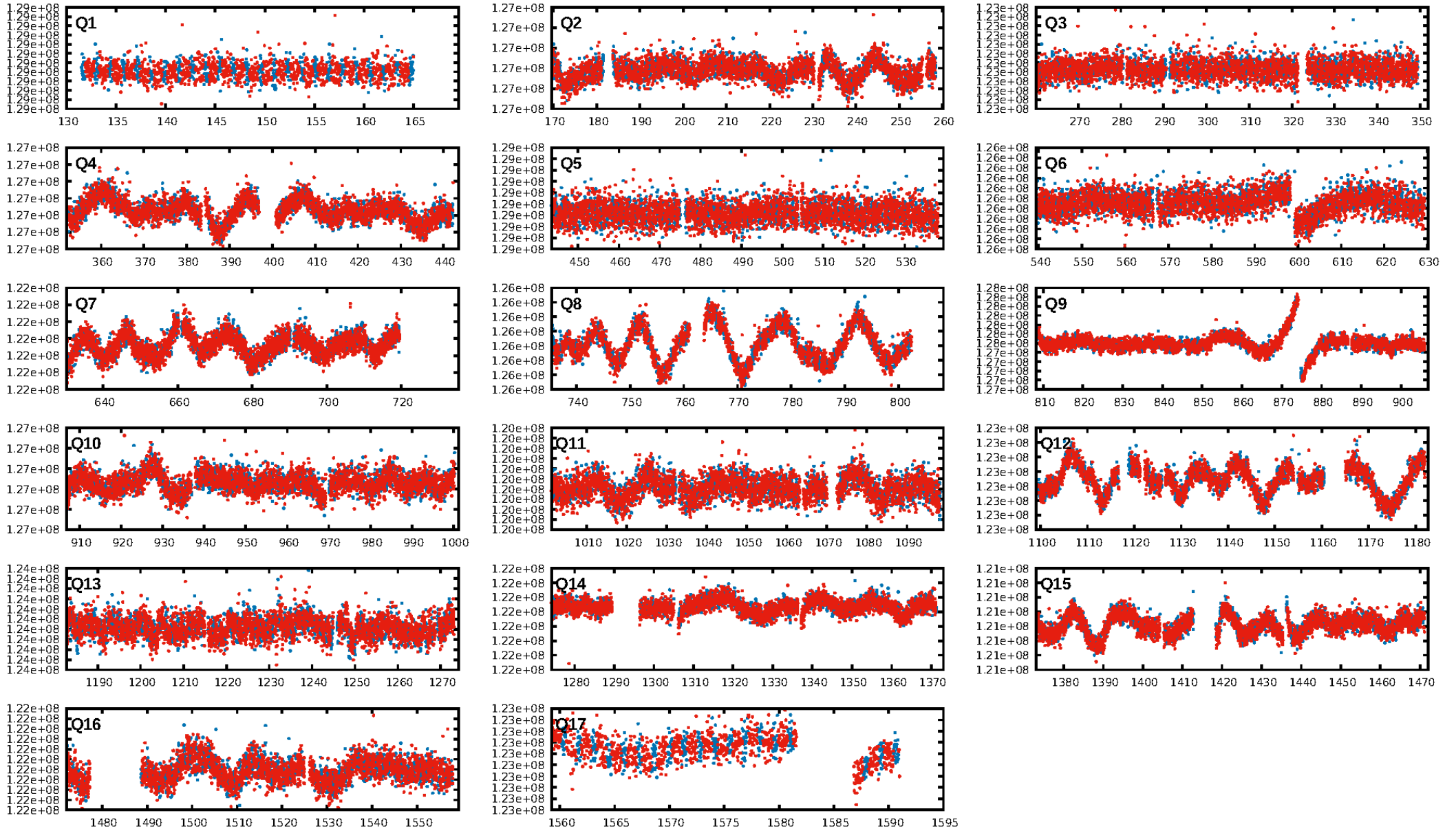
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [942/944]
GhostDiagnostic-chr: 5.865
Centroid-sig: 0.5%
Centroid-so: 2.270 arcsec [1.43 σ]
OotOffset-rm: 3.008 arcsec [7.17 σ]
KicOffset-rm: 2.815 arcsec [6.48 σ]
OotOffset-st: 0/2/4/3 [9]
KicOffset-st: 0/2/4/3 [9]
DiffImageQuality-fgm: 0.22 [2/9]
DiffImageOverlap-fno: 1.00 [17/17]

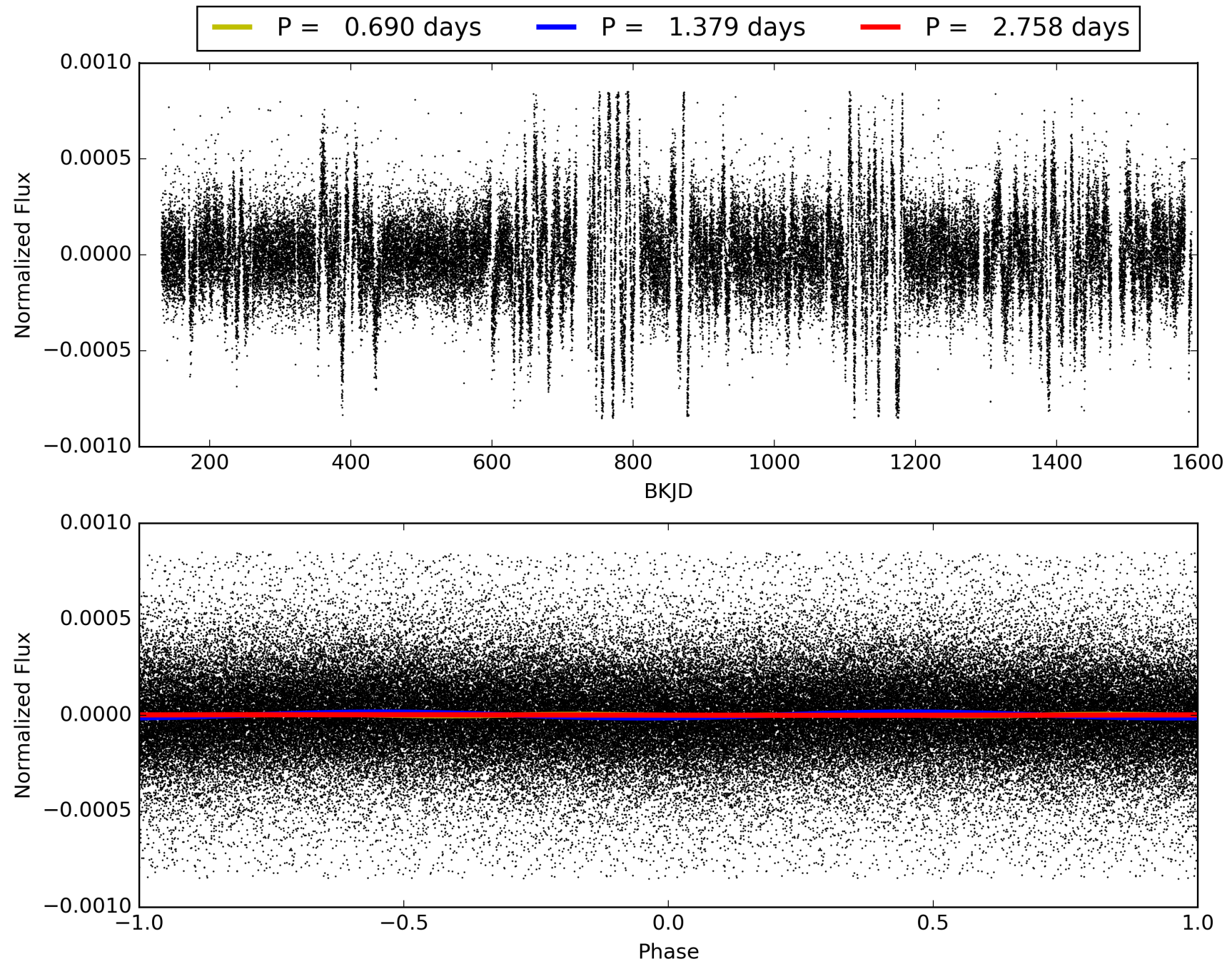
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 23:21:39 Z

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

TCE 008264767-01, PDC Light Curves

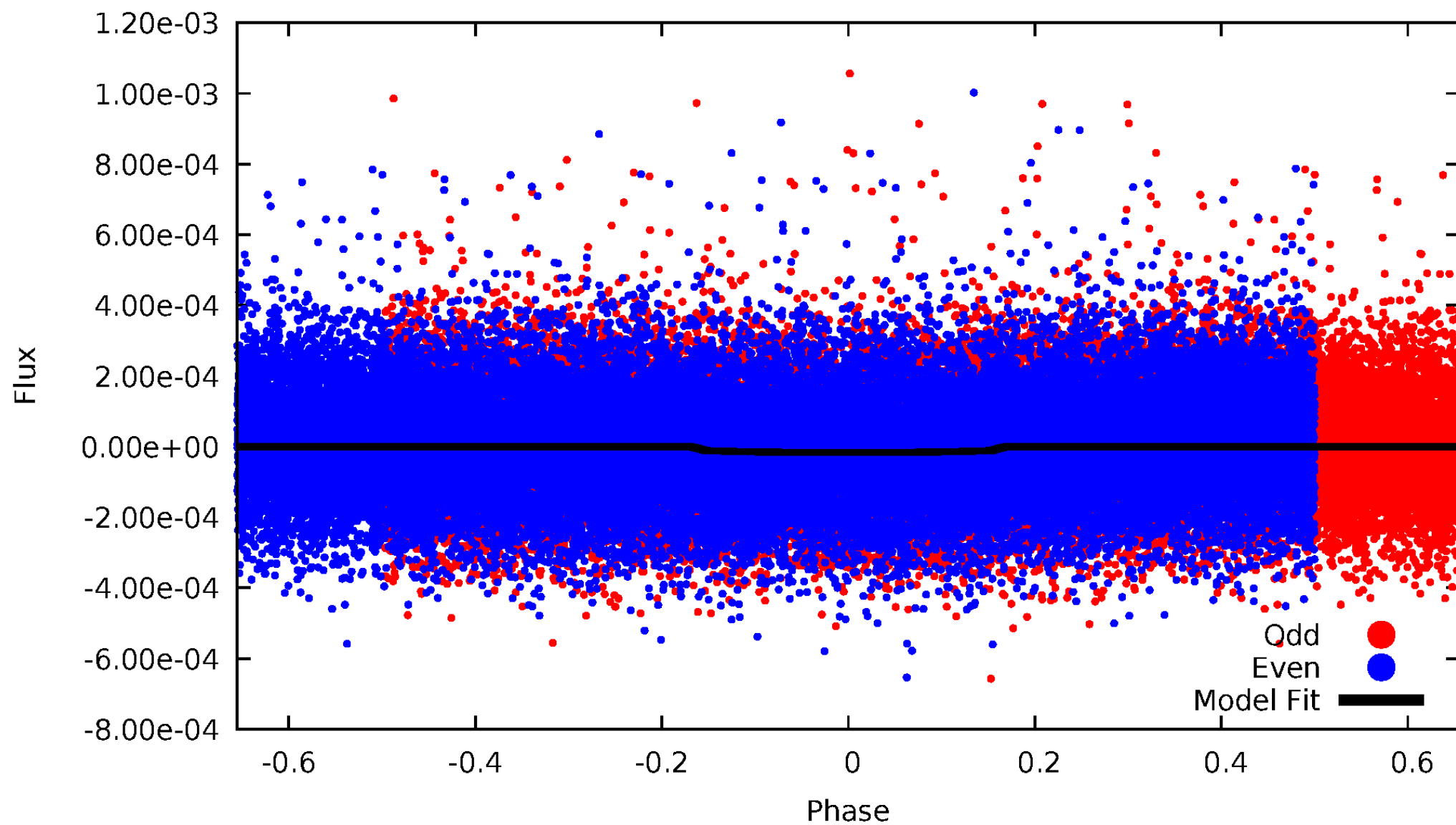


TCE 008264767-01



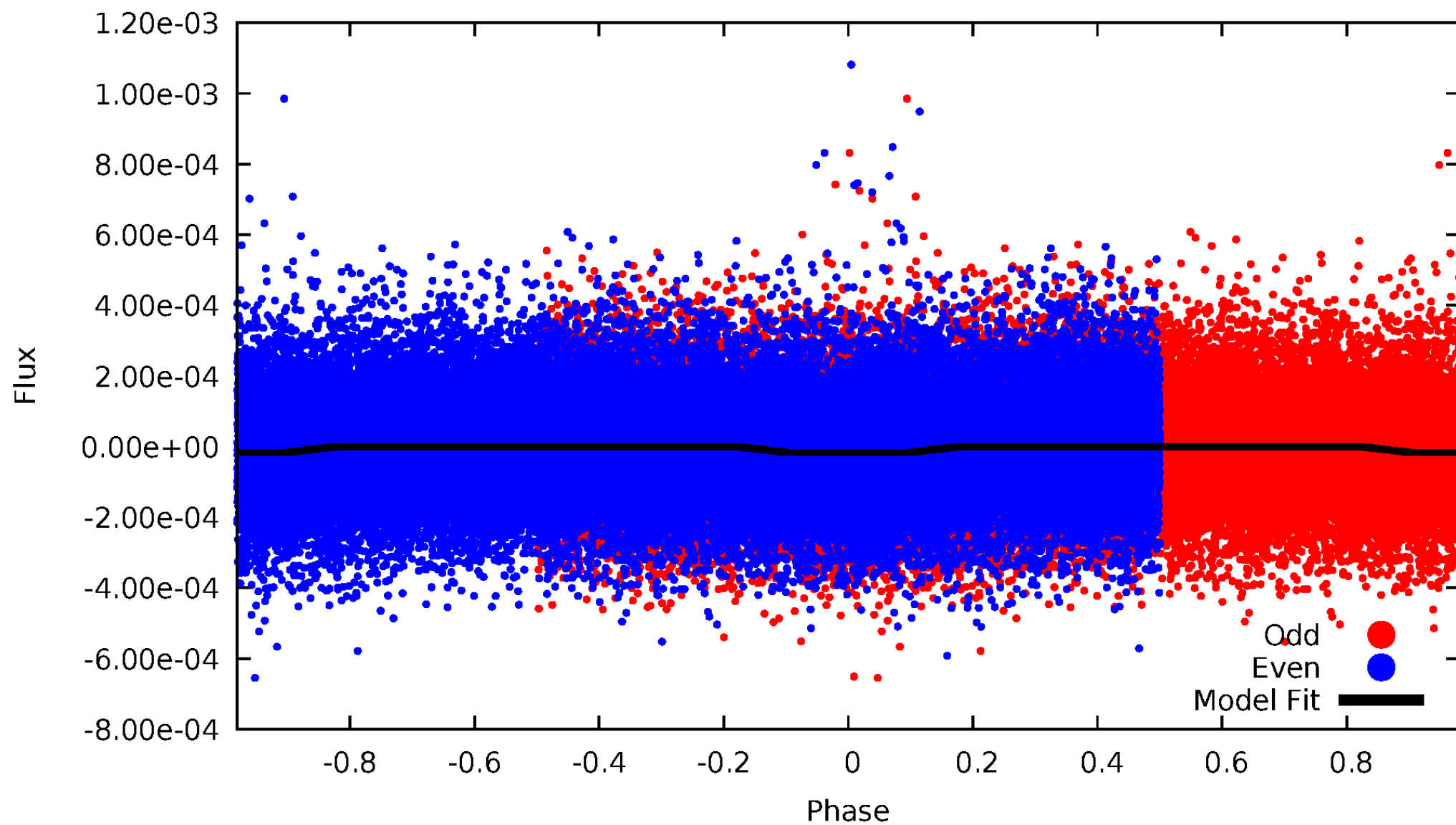
DV Odd/Even

TCE 008264767-01



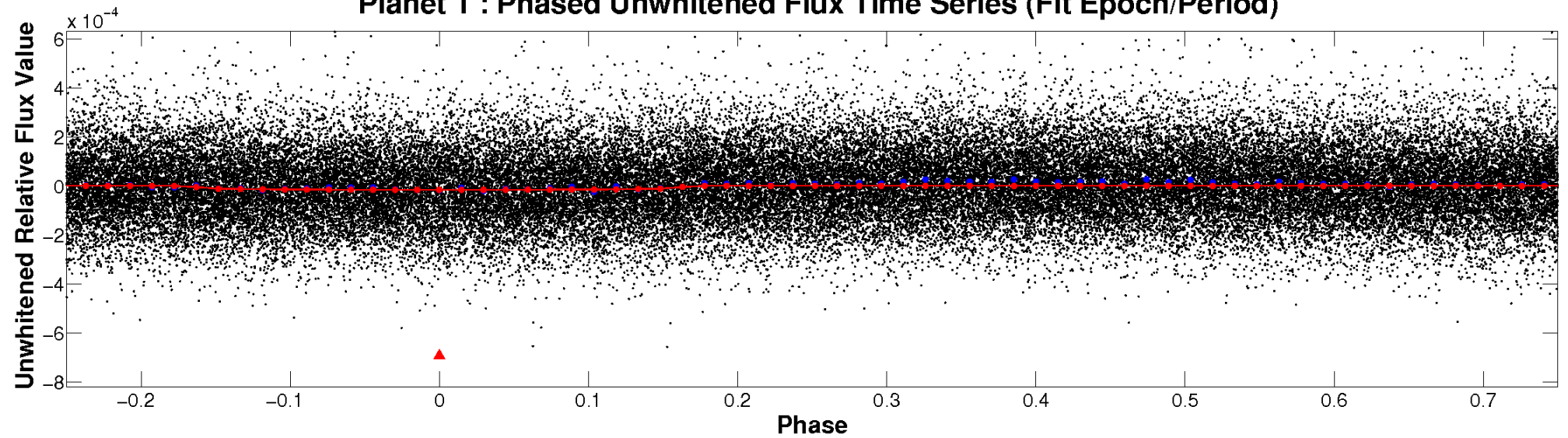
ALT Odd/Even

TCE 008264767-01

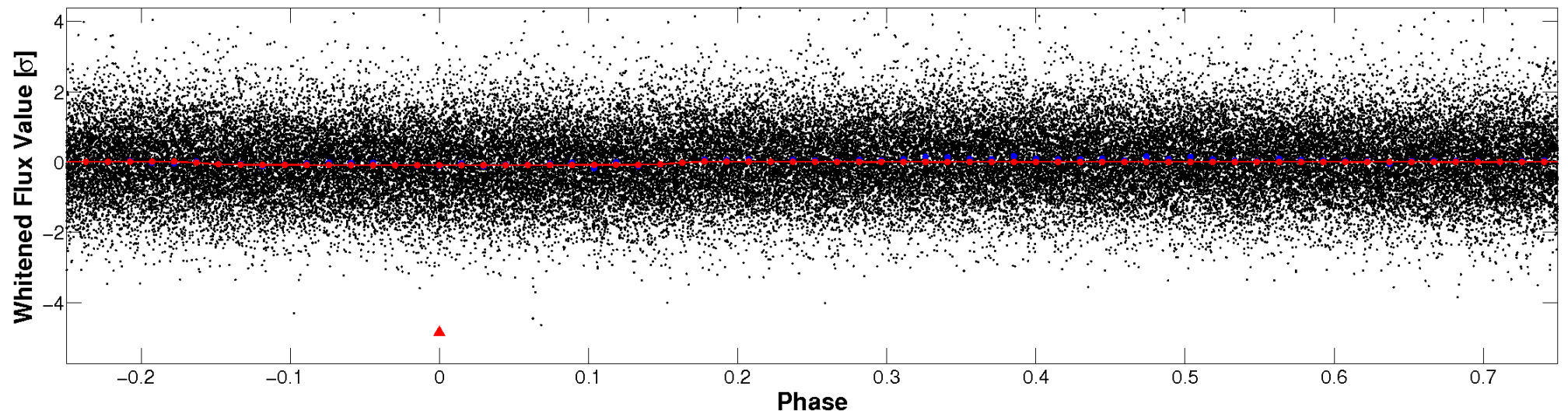


Non-Whitened Vs. Whitened Light Curve

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

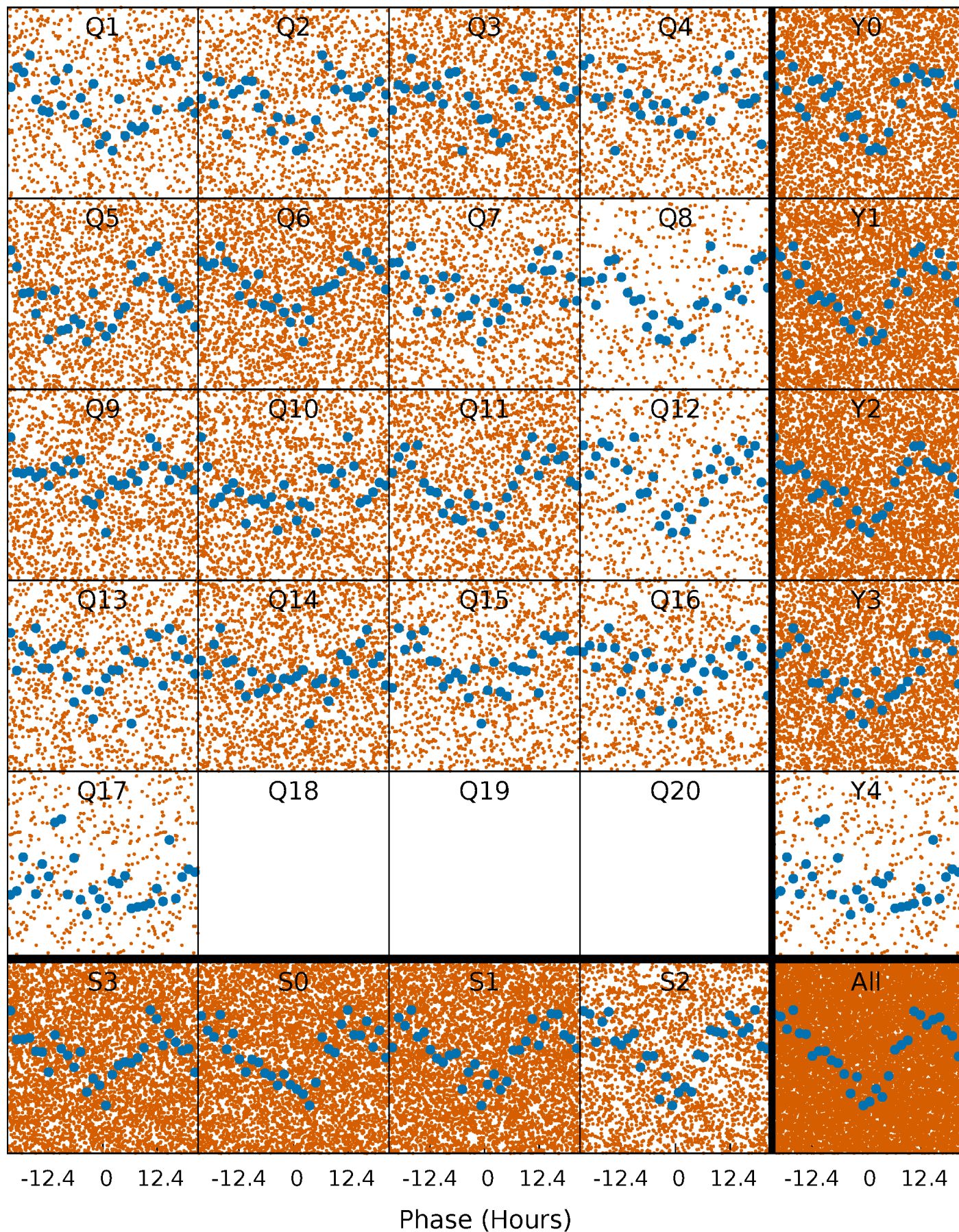


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



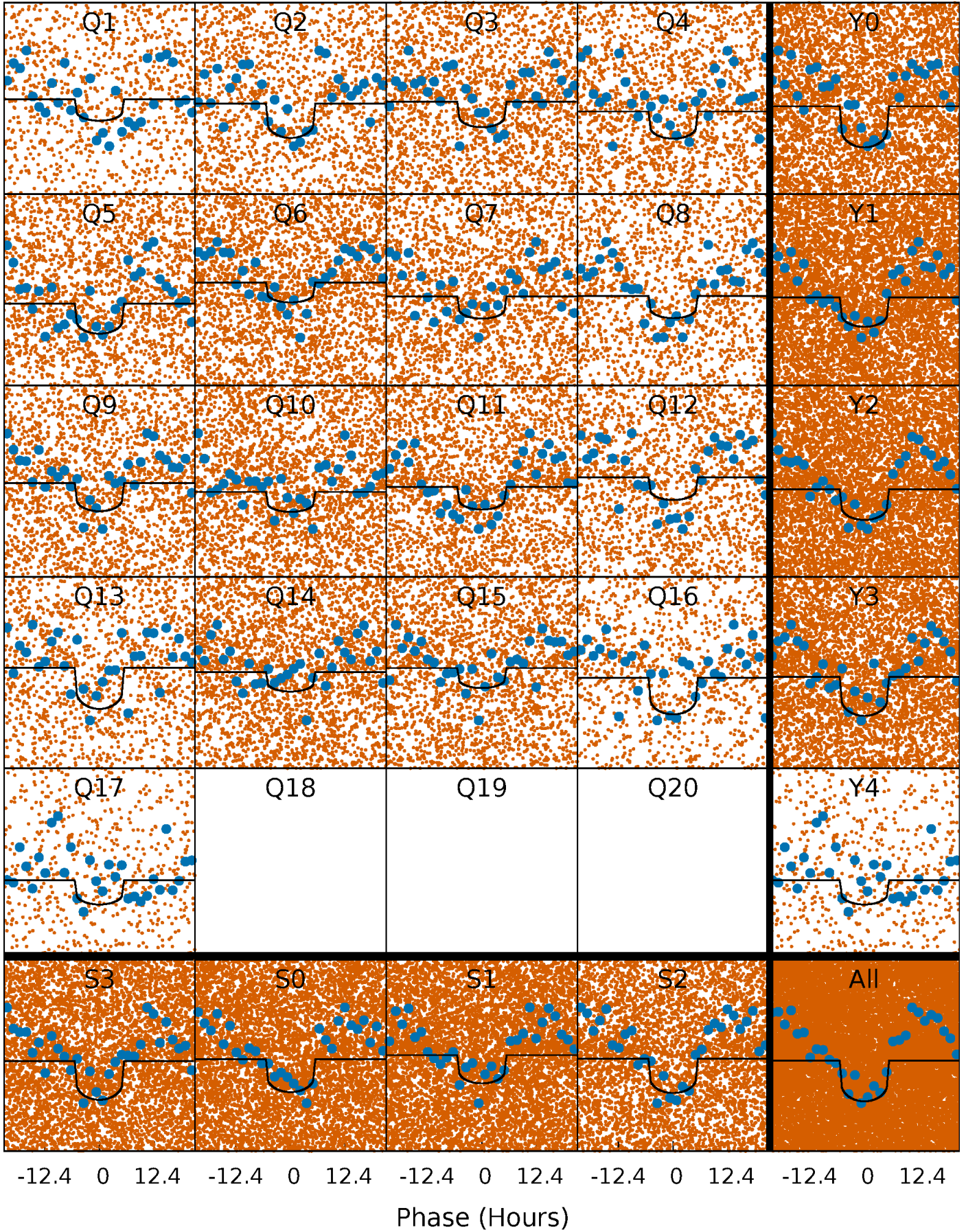
PDC Quarter-Phased Transit Curves

TCE 008264767-01 P= 1.379054 Days $T_0=132.331435$ (BKJD)



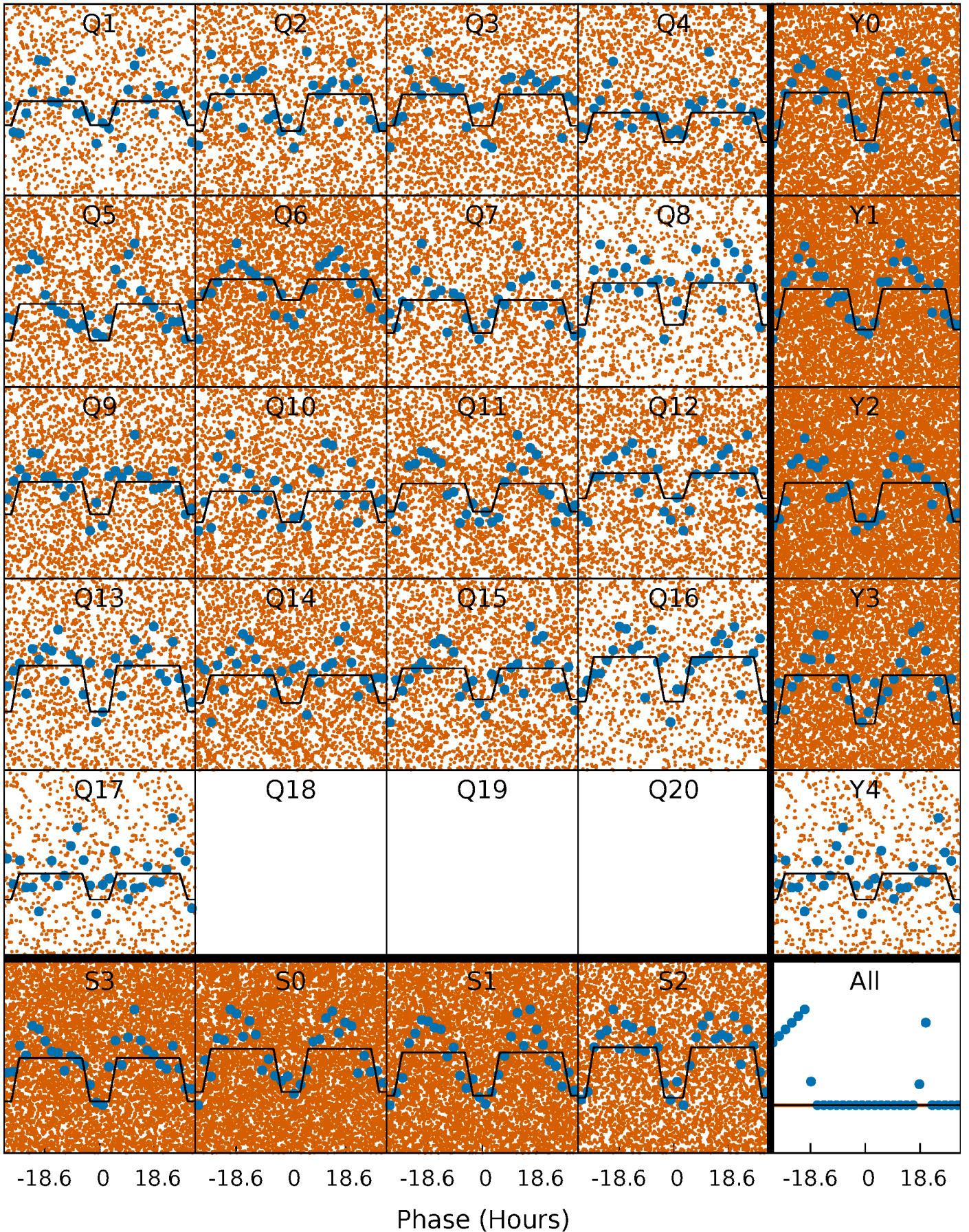
DV Quarter-Phased Transit Curves

TCE 008264767-01 P= 1.379054 Days $T_0=132.331435$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

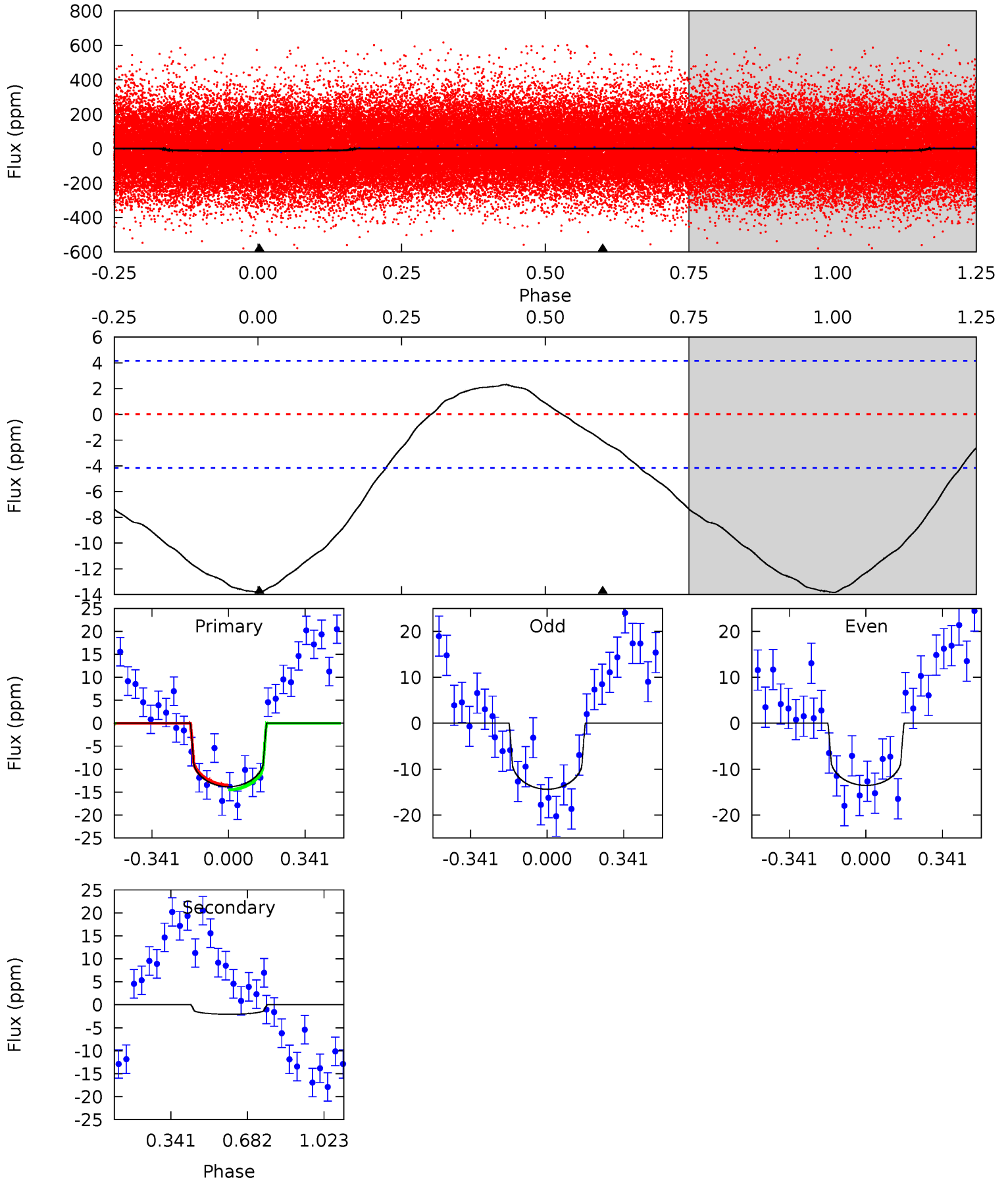
TCE 008264767-01 P= 1.378885 Days $T_0=132.405054$ (BKJD)



DV Model-Shift Uniqueness Test

008264767-01, P = 1.379054 Days, E = 130.952381 Days

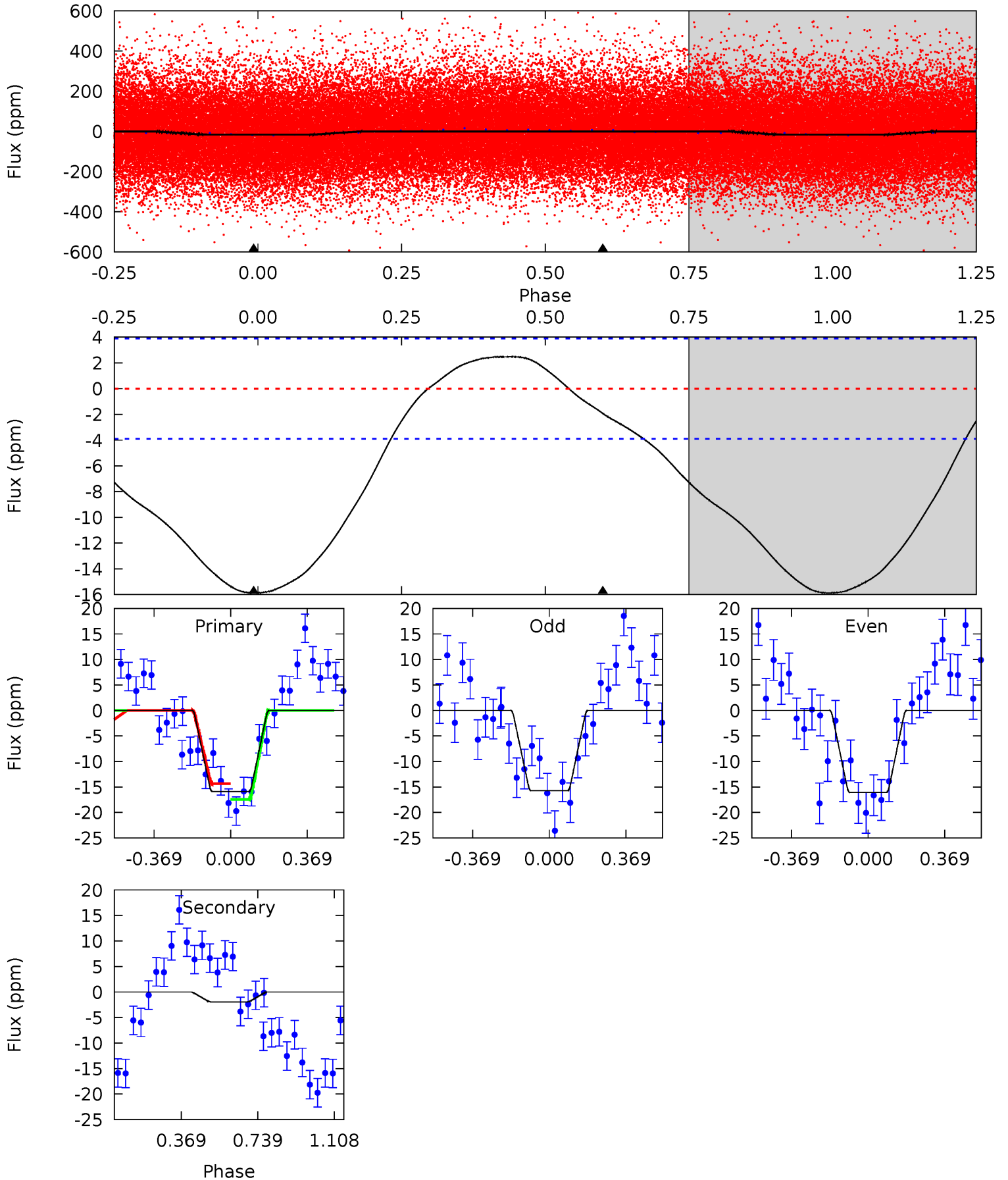
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.3	2.13	0	0	4.30	0.95	1.29	14.3	14.3	2.13	2.13	0.43	0.96	0.14	0.53



Alt Model-Shift Uniqueness Test

008264767-01, P = 1.378885 Days, E = 131.026169 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.4	2.12	0	0	4.28	0.90	1.37	17.4	17.4	2.12	2.12	0.19	1.03	0.14	1.68



Stellar Parameters For KIC 008264767

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8225^{+230}_{-362}	$4.203^{+0.067}_{-0.202}$	$0.210^{+0.150}_{-0.550}$	$1.802^{+0.556}_{-0.238}$	$1.890^{+0.315}_{-0.315}$	$0.455^{+0.159}_{-0.228}$
	+3%/-4%	+2%/-5%	+71%/-262%	+31%/-13%	+17%/-17%	+35%/-50%
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 008264767-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 1	$0.82^{+0.56}_{-0.47}$	3997^{+326}_{-224}	4532^{+2614}_{-1434}	$1.336^{+6.326}_{-0.923}$
Alt.	-2 ± 1	$0.89^{+0.56}_{-0.51}$	3997^{+282}_{-218}	4311^{+2557}_{-1468}	$1.142^{+5.817}_{-0.787}$

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 $A_{obs} \gg 1.0$

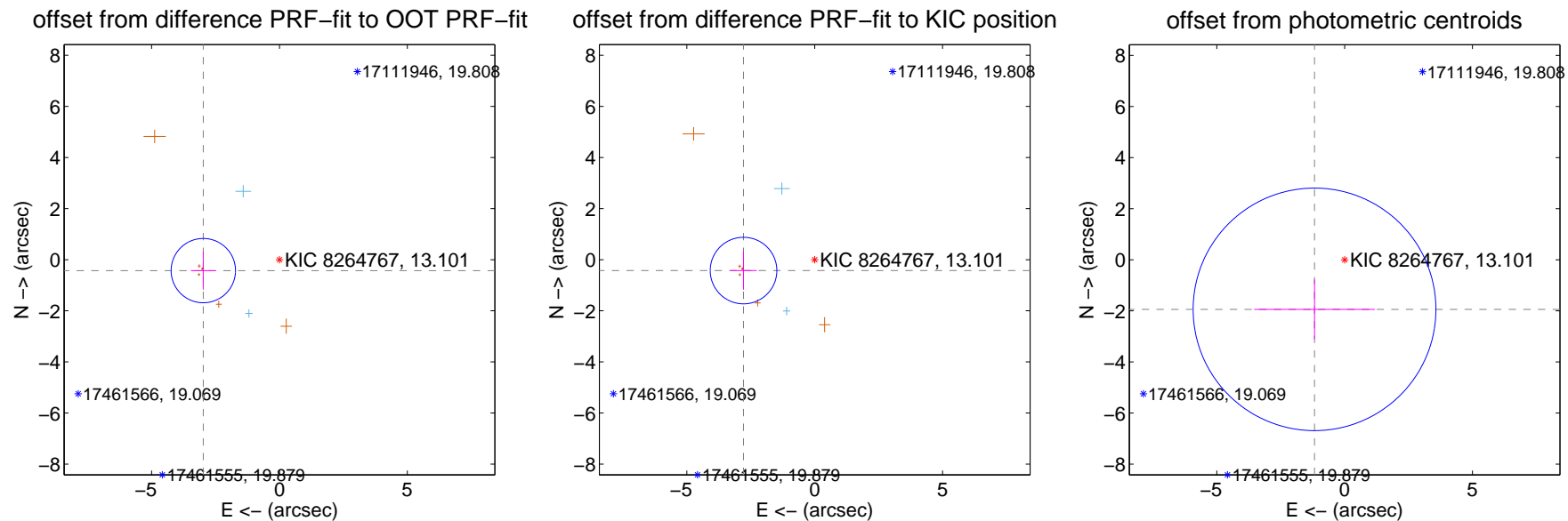
DV Centroid Data

Supplemental centroid analysis for 008264767-01. Kepler magnitude: 13.10. Transit SNR 11.40

There are 2 quarters with good PRF difference image offsets

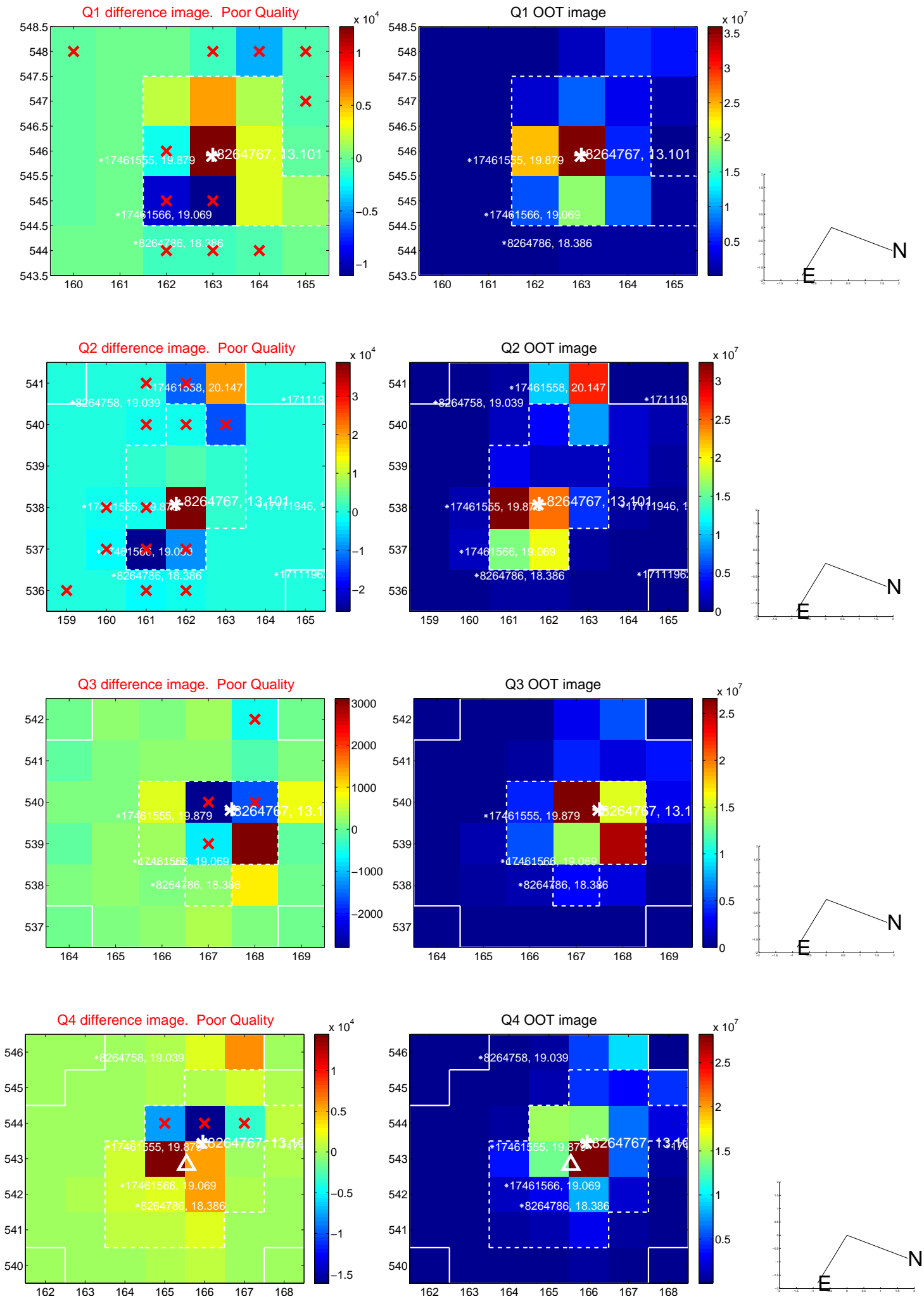
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.008 ± 0.420	7.17	2.978 ± 0.488	-0.427 ± 0.748
PRF-fit source offset from KIC position	2.815 ± 0.434	6.48	2.782 ± 0.515	-0.426 ± 0.750
photometric centroid source offset	2.27 ± 1.58	1.43	1.18 ± 2.36	-1.94 ± 1.17

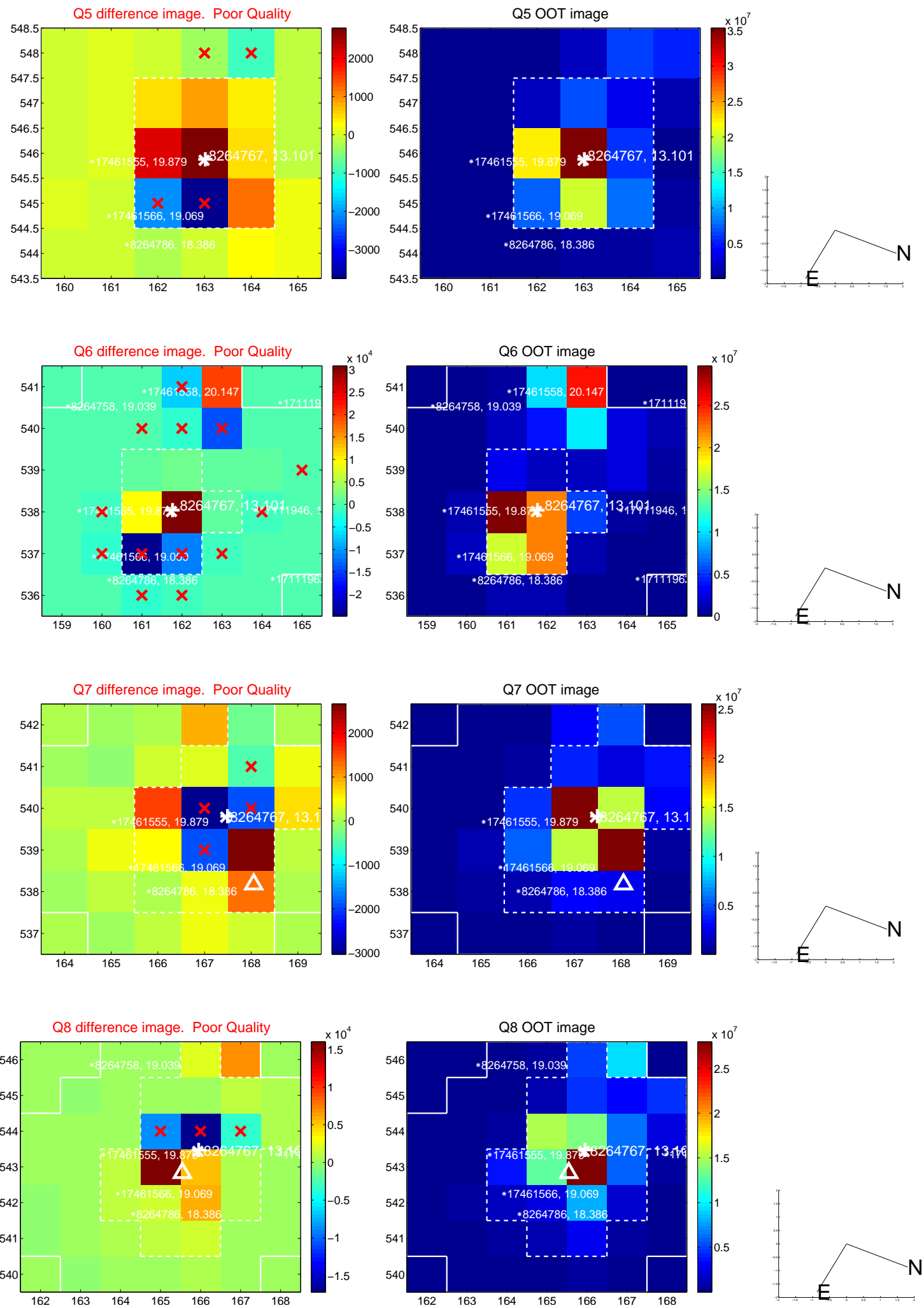


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

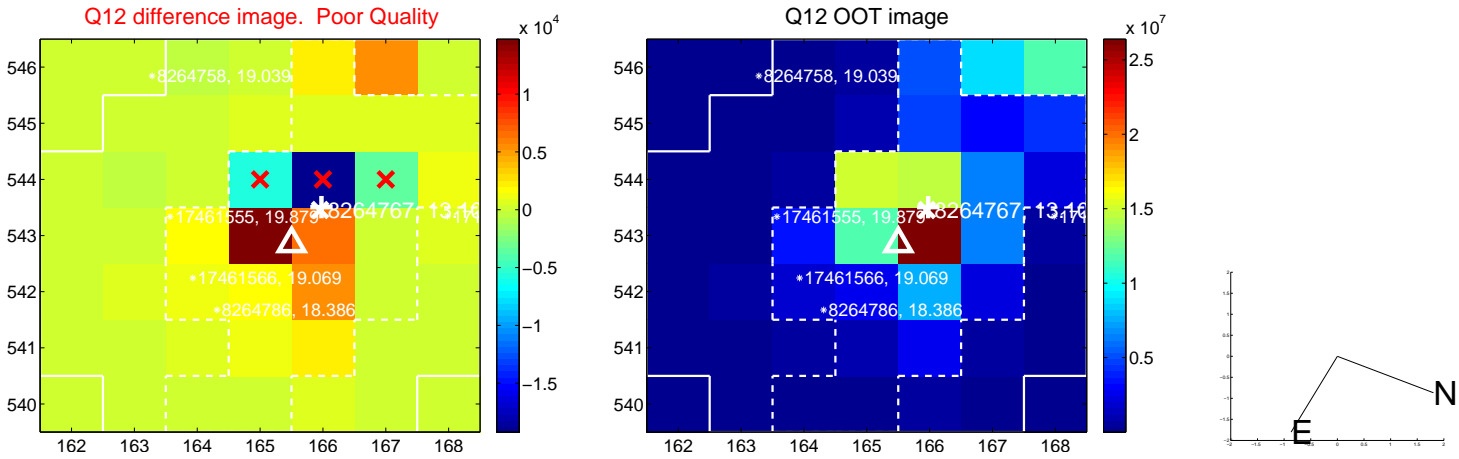
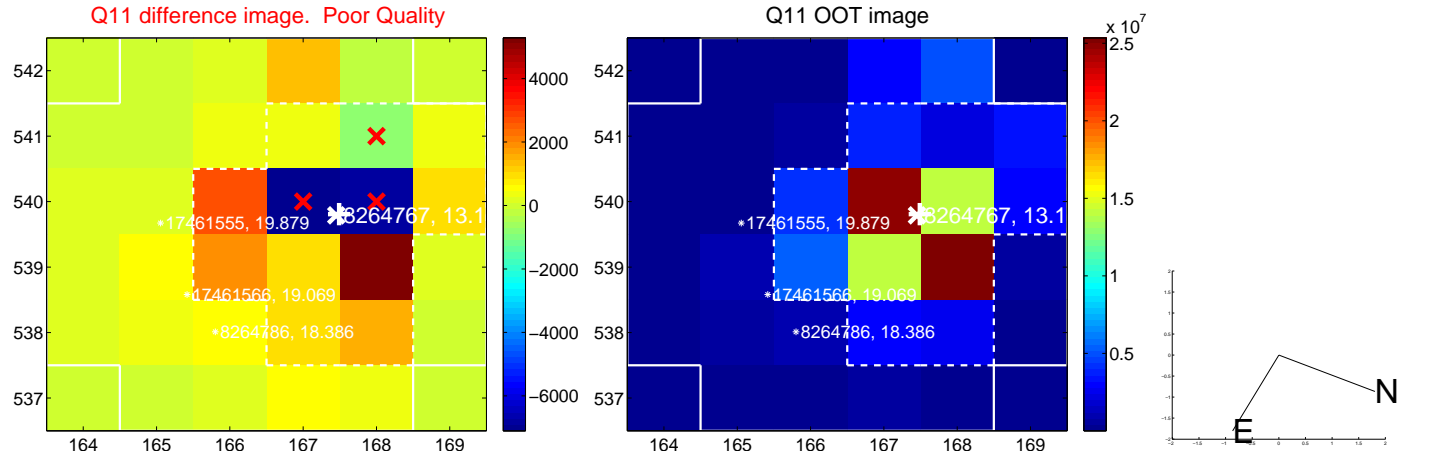
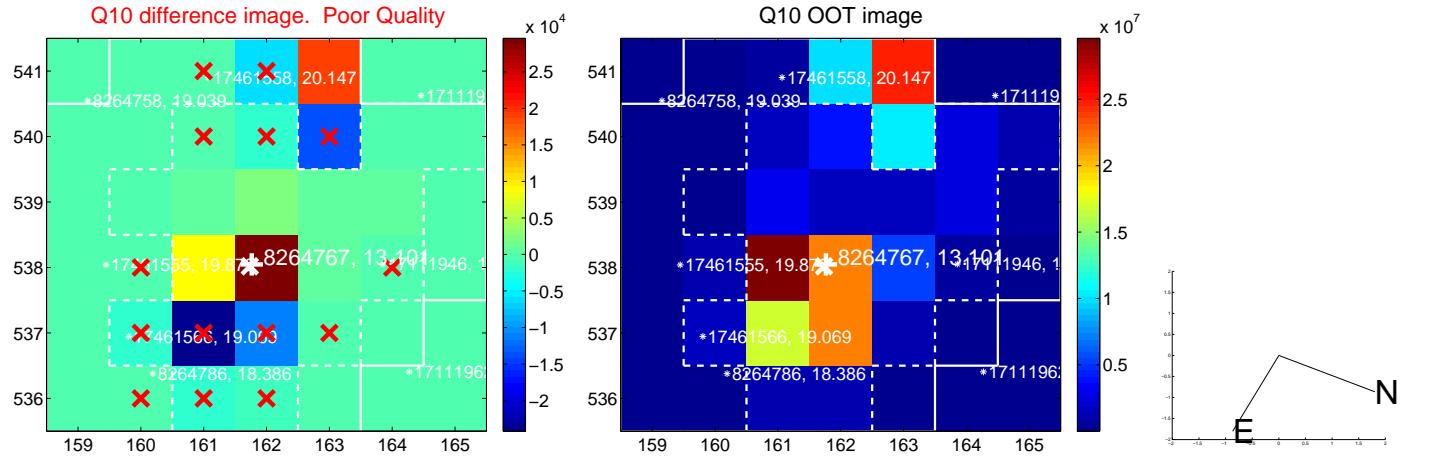
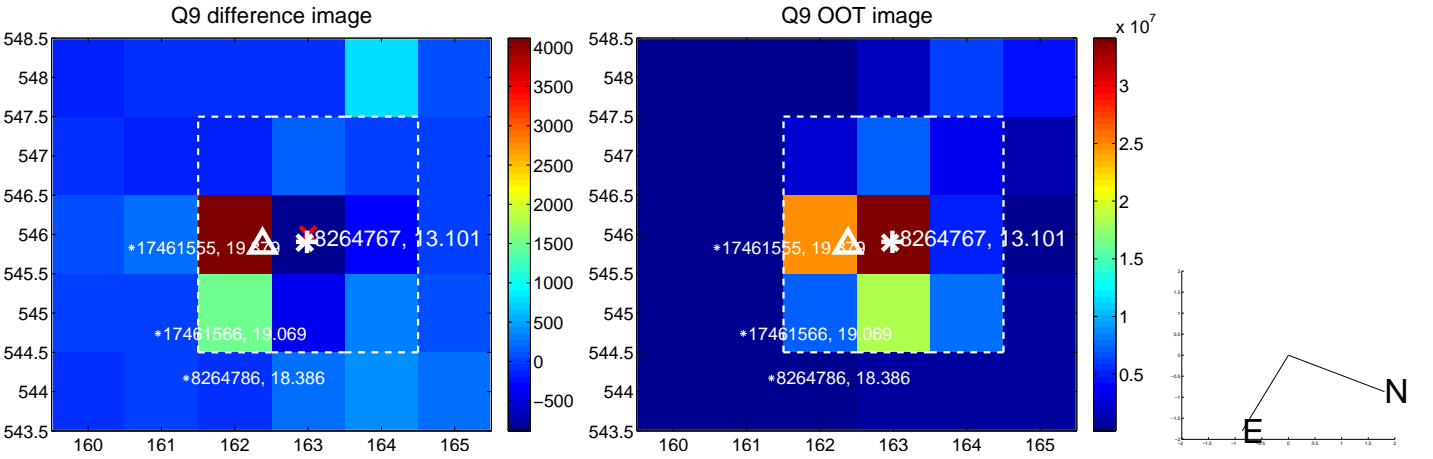
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



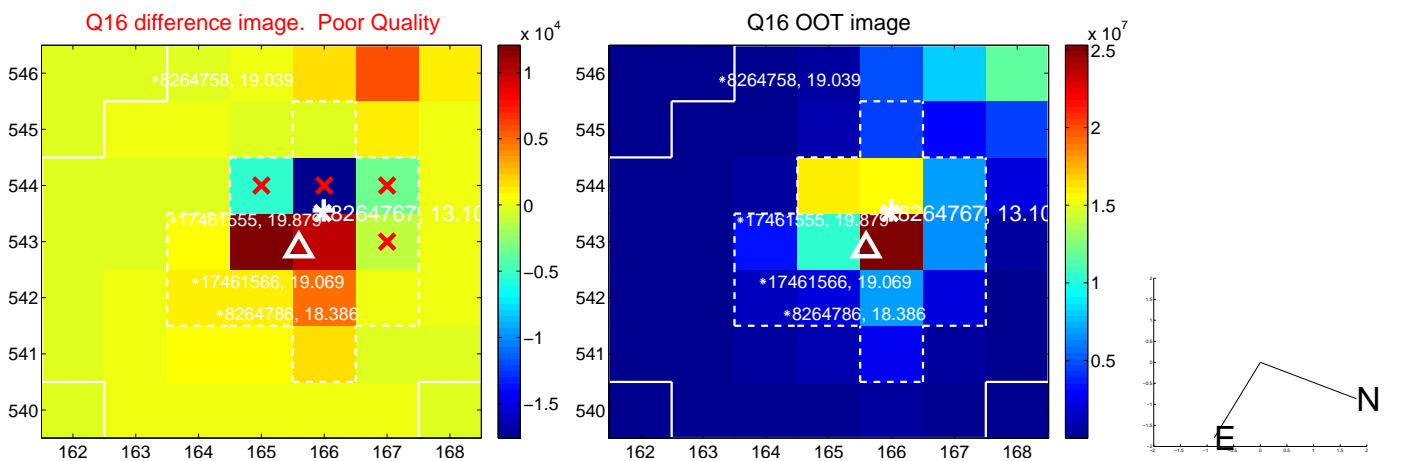
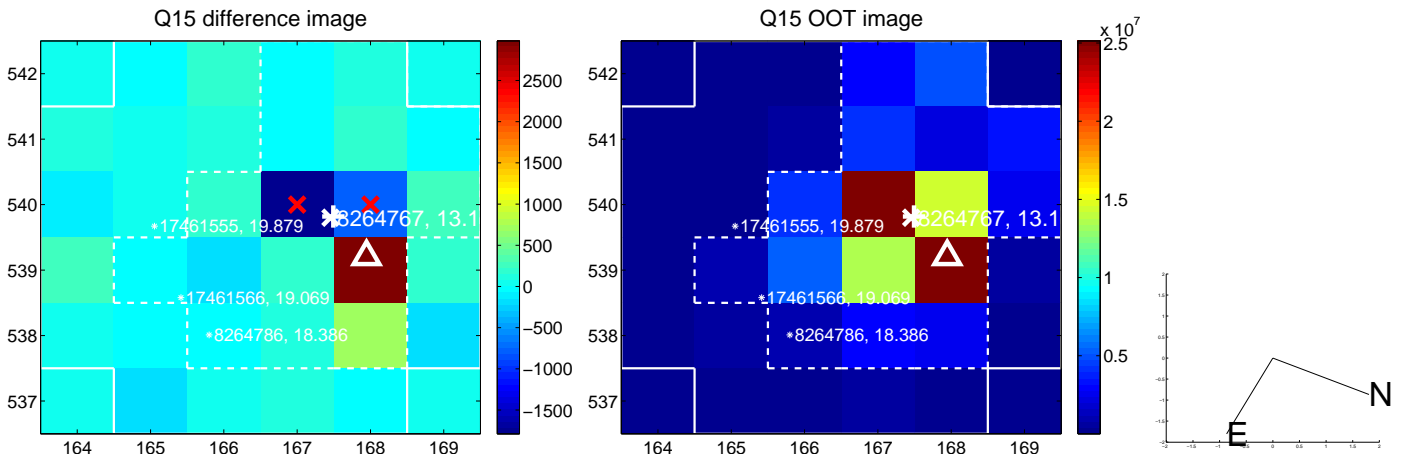
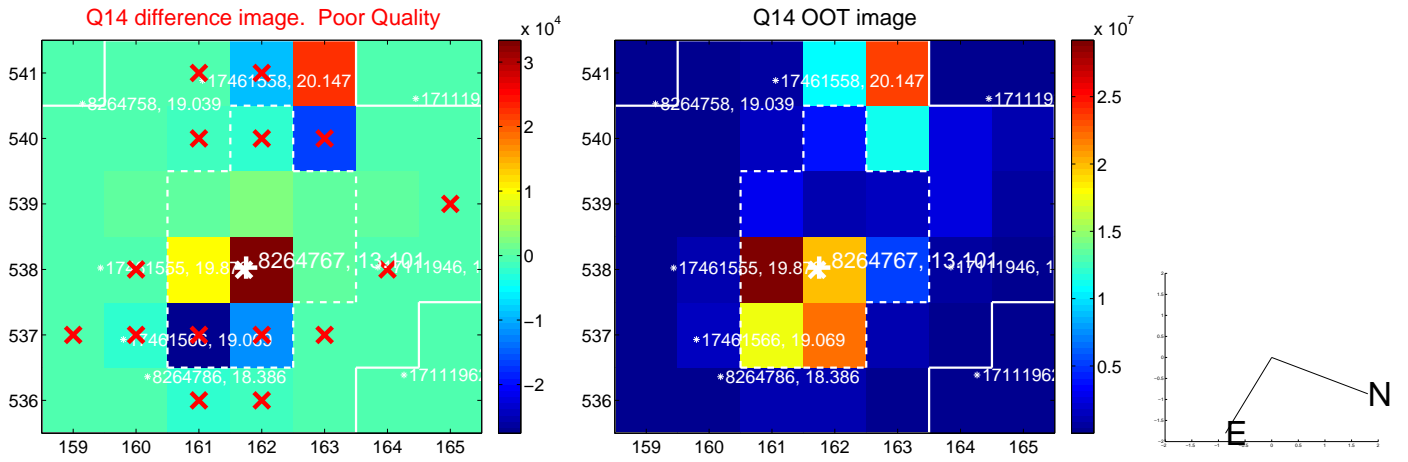
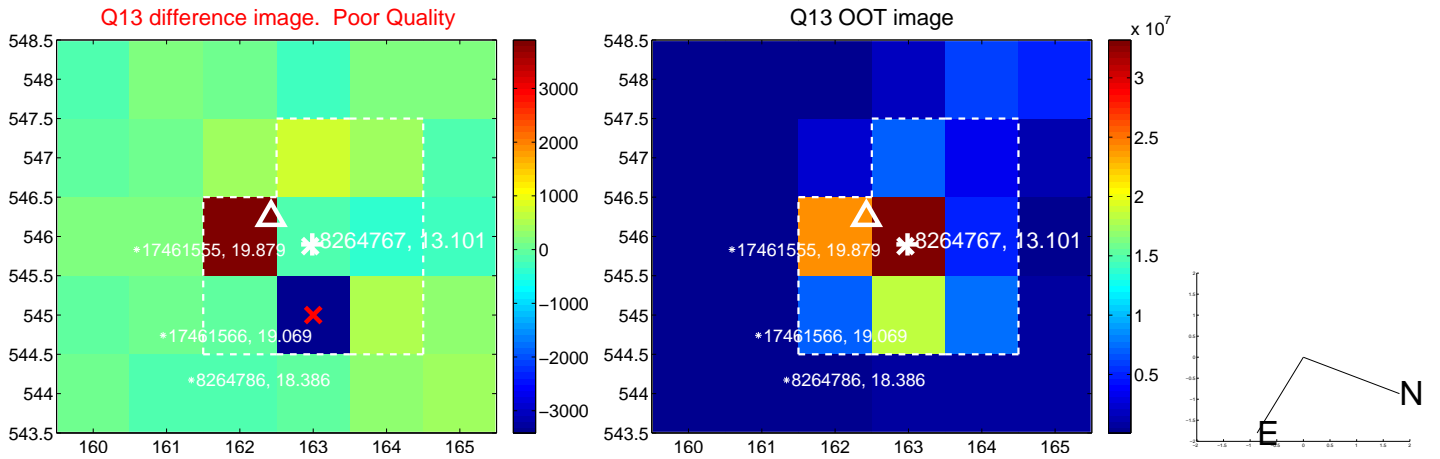
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



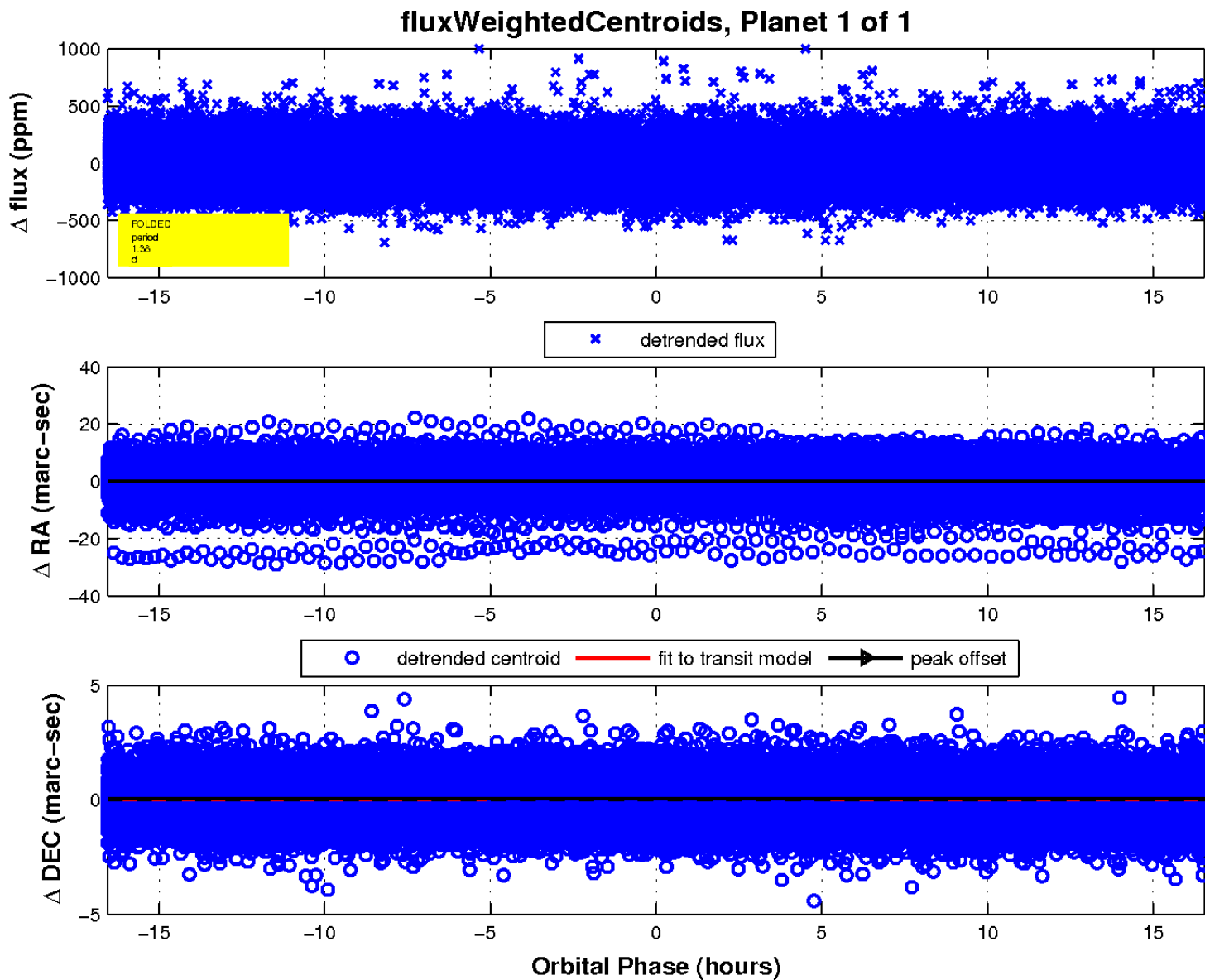
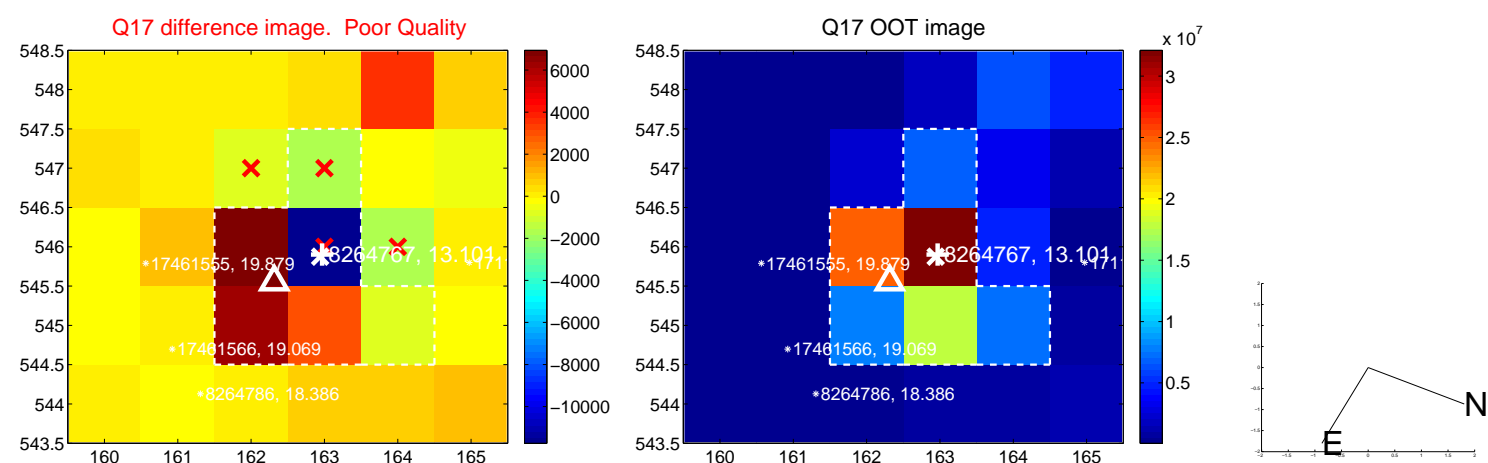
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UKIRT Image

