

KIC 007362695

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})
007362695-01	OBS	No	0.566784	131.830008	30.4	2.396	8.4	9.0	0.93	5402	0.56	4221.82

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007362695-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_UNRESOLVED_OFFSET—HALO_GHOST—EPHEM_MATCH

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.

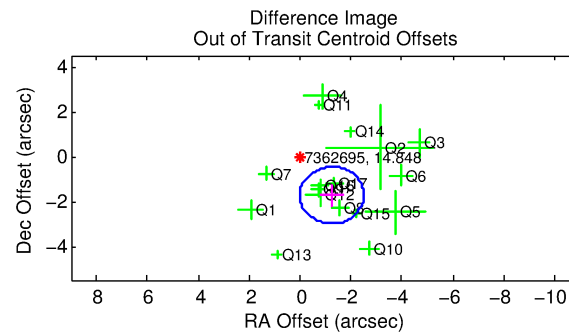
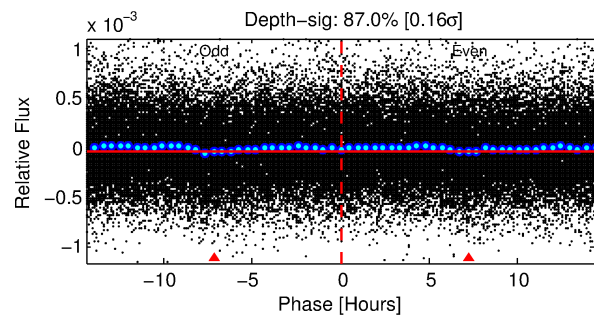
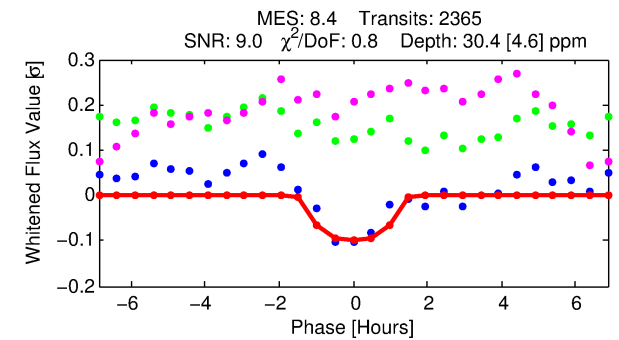
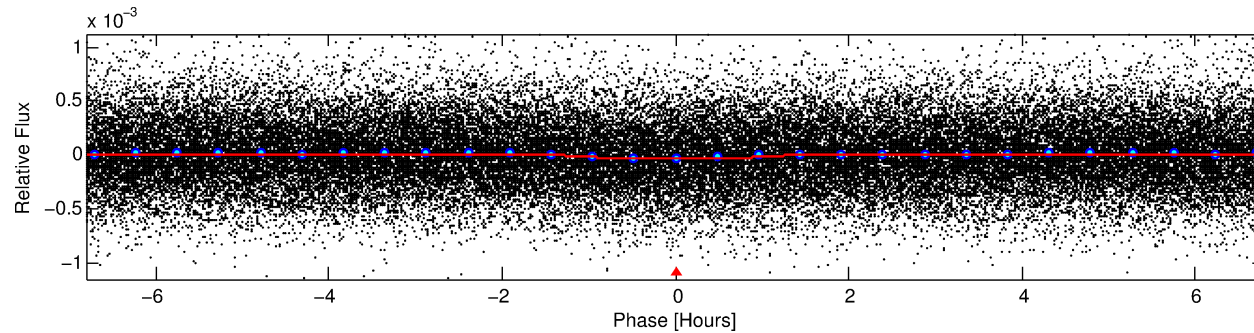
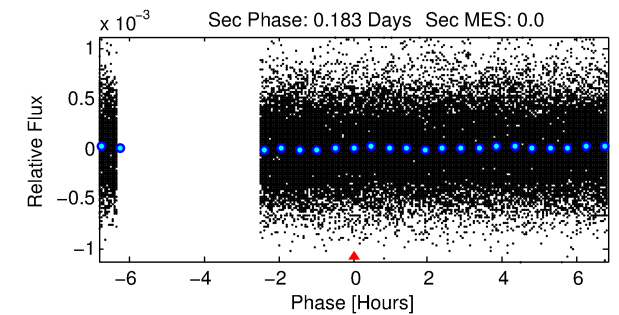
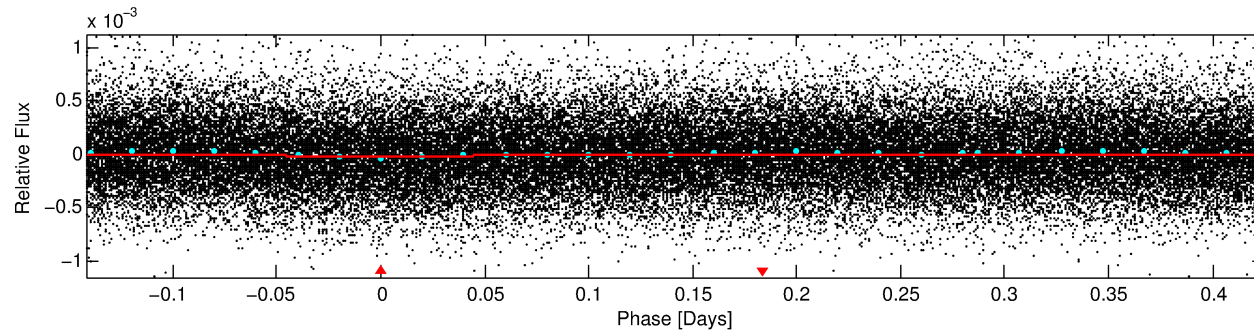
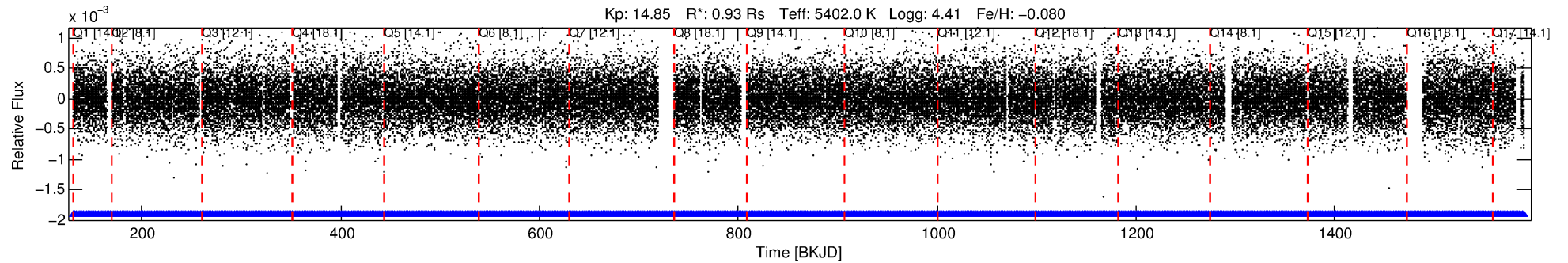
Ephemeris Match Information For 007362695-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist ($''$)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007362695-01	7362695	RR-Lyr-pri	7198959	1:1	1147.1	36	286	7.86	14.85	20777.00	Direct-PRF	0	2.70	18.54

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7362695 Candidate: 1 of 1 Period: 0.567 d



DV Fit Results:

Period = 0.56678 [0.00001] d
Epoch = 131.8300 [0.0036] BKJD
Rp/R* = 0.0055 [0.0029]
a/R* = 1.47 [1.66]
b = 0.76 [1.21]
Seff = 4221.82 [1610.14]
Teff = 2055 [196] K
Rp = 0.56 [0.33] Re
a = 0.0125 [0.0029] AU
Ag = N/A
Teffp = N/A

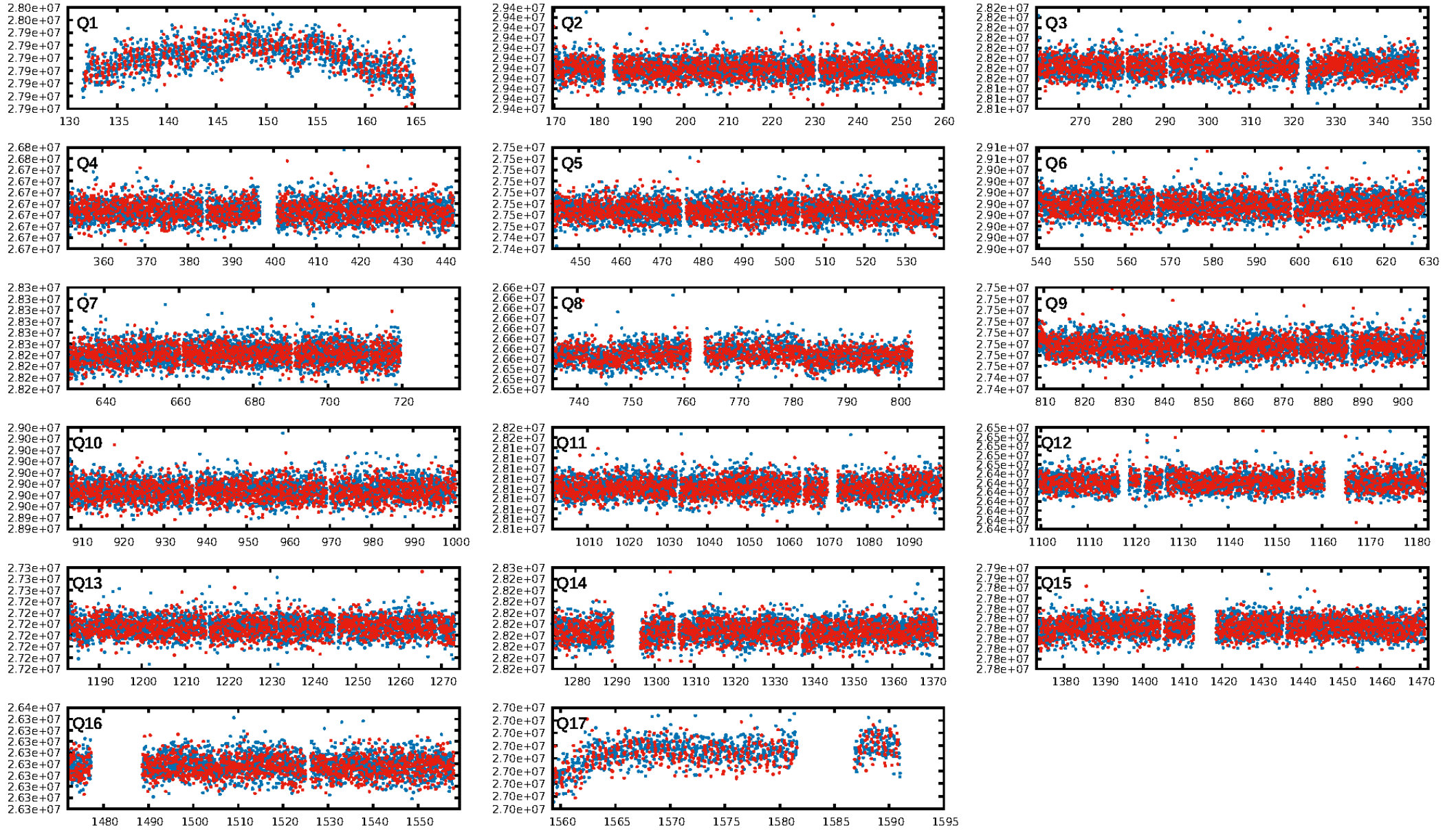
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.76e-16
RollingBand-fgt: 1.00 [2260/2260]
GhostDiagnostic-chr: 0.03519
Centroid-sig: 8.4%
Centroid-so: 2.137 arcsec [1.53σ]
OotOffset-rm: 2.131 arcsec [5.06σ]
KicOffset-rm: 2.226 arcsec [5.13σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 1.00 [17/17]

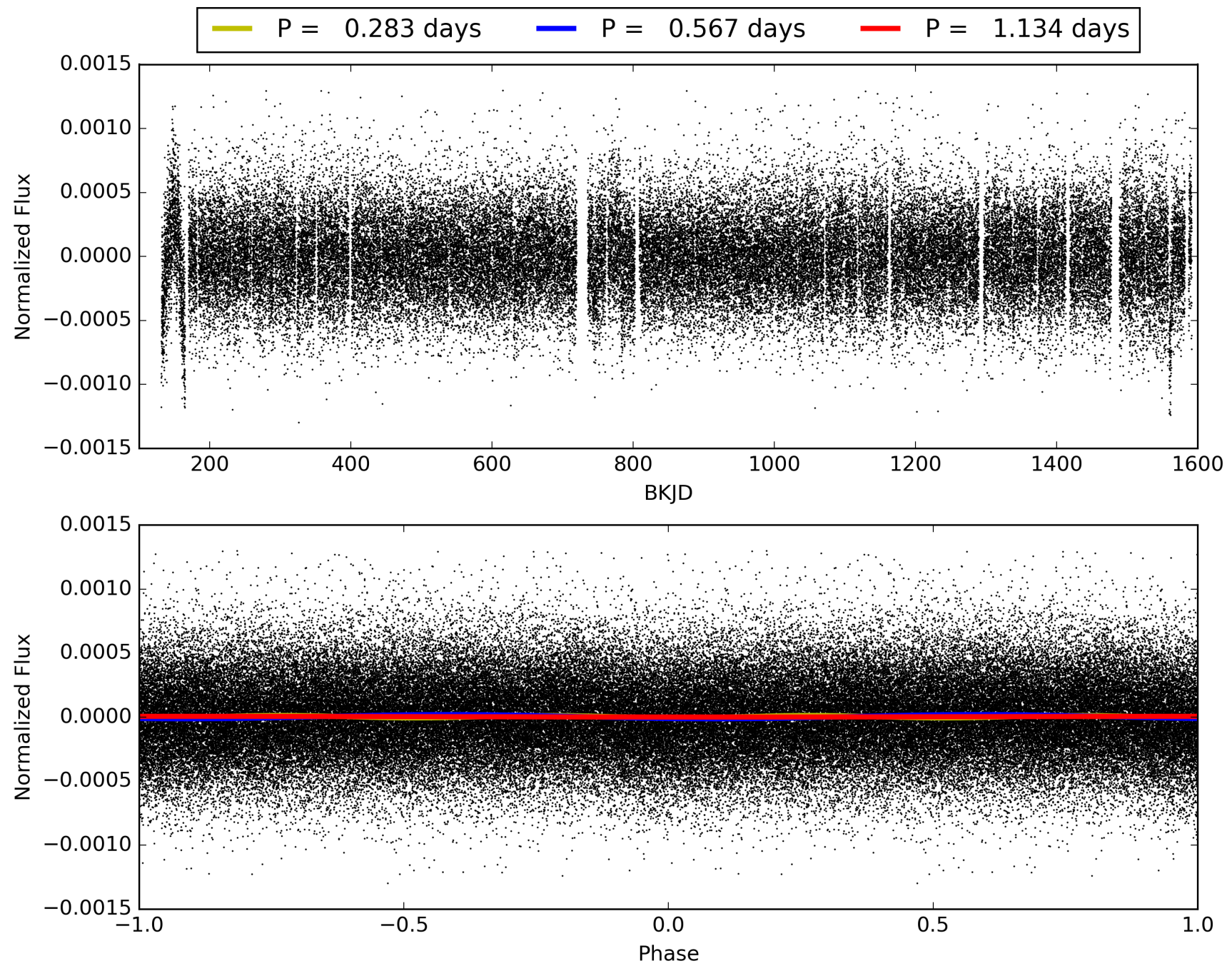
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 14:19:09 Z

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

TCE 007362695-01, PDC Light Curves

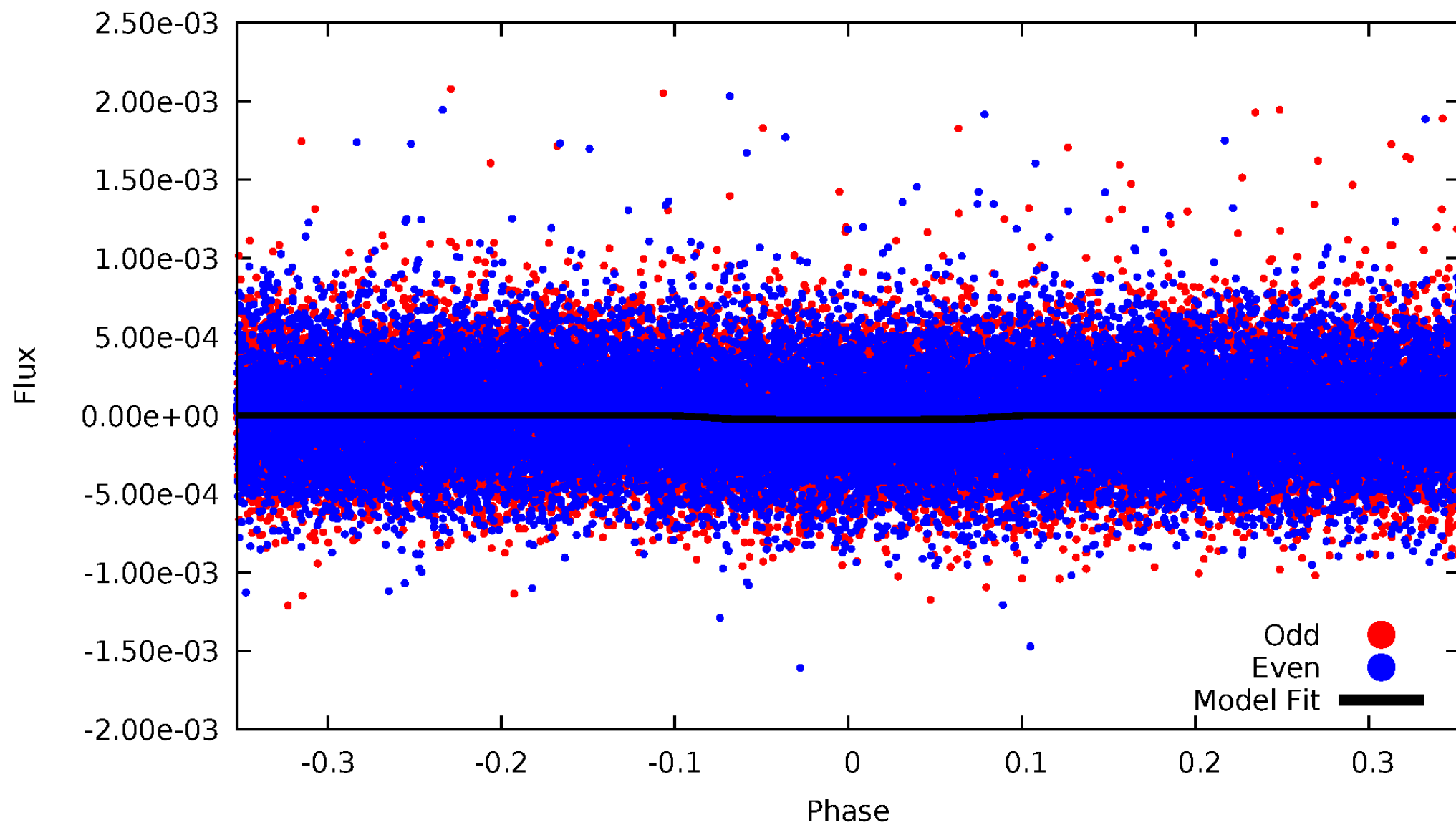


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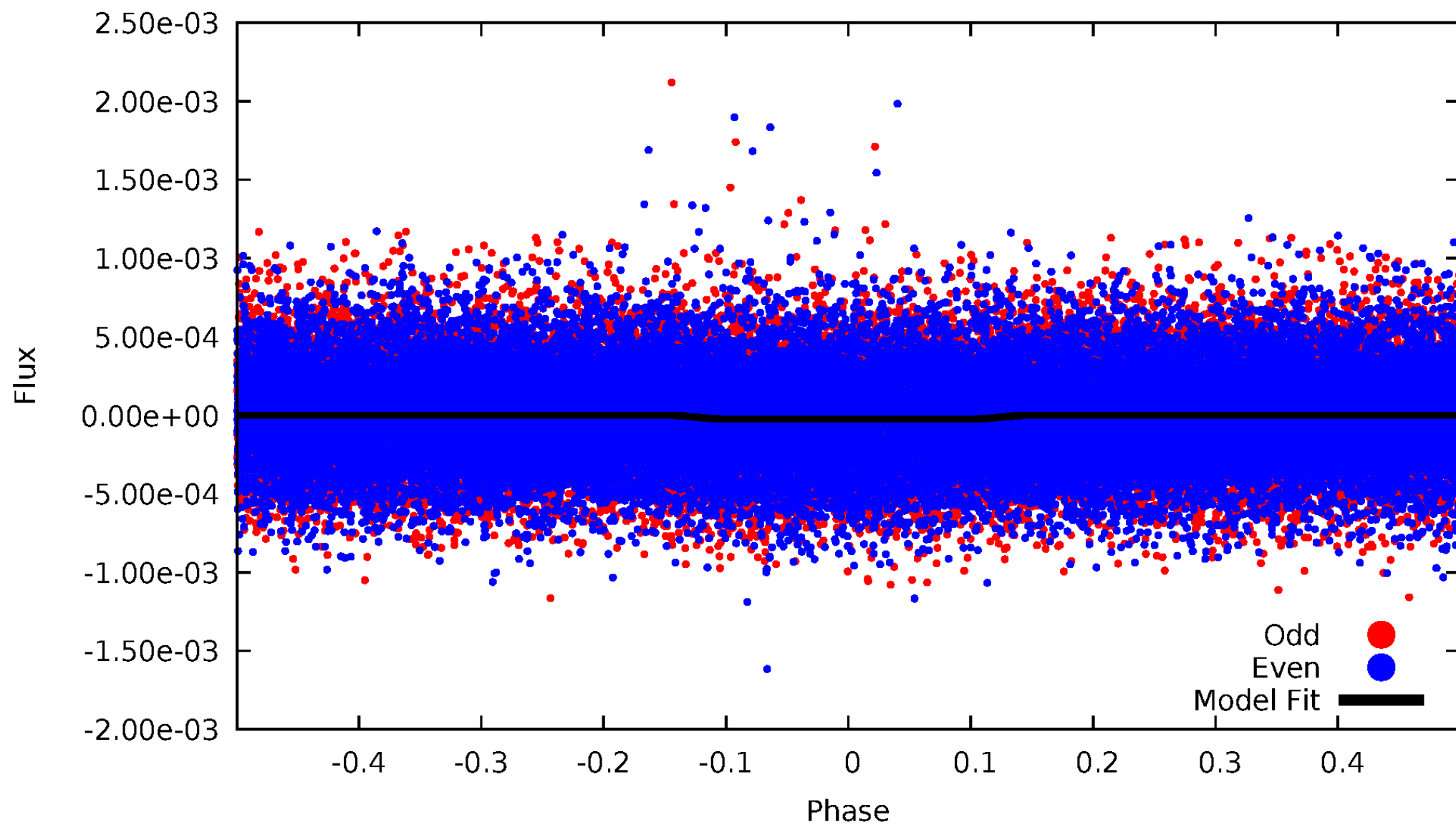
DV Odd/Even

TCE 007362695-01

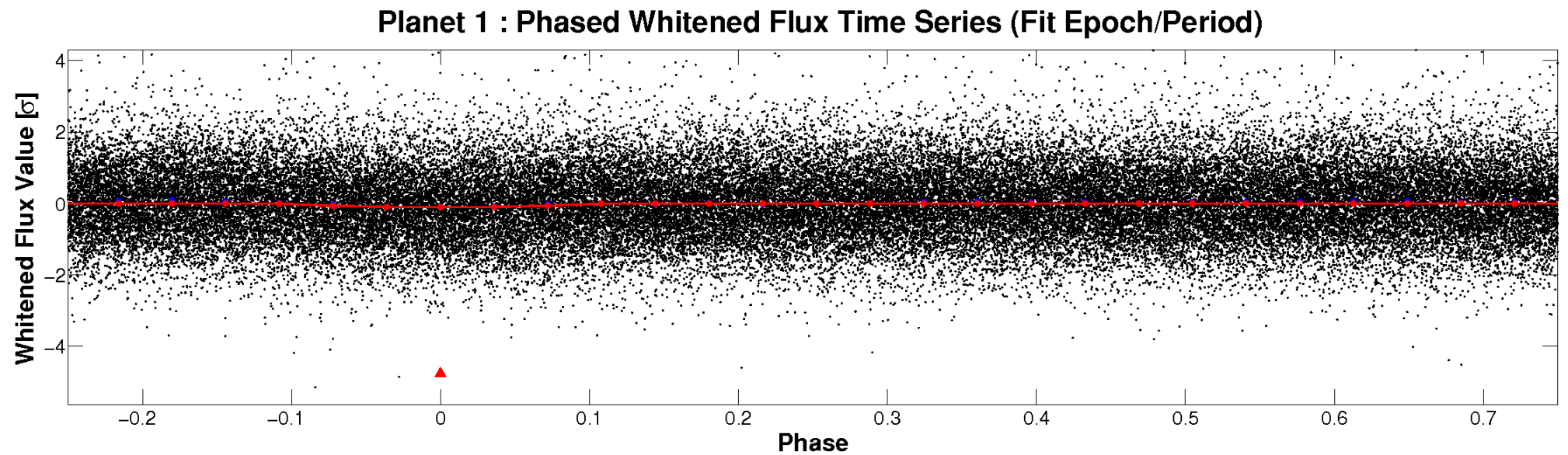
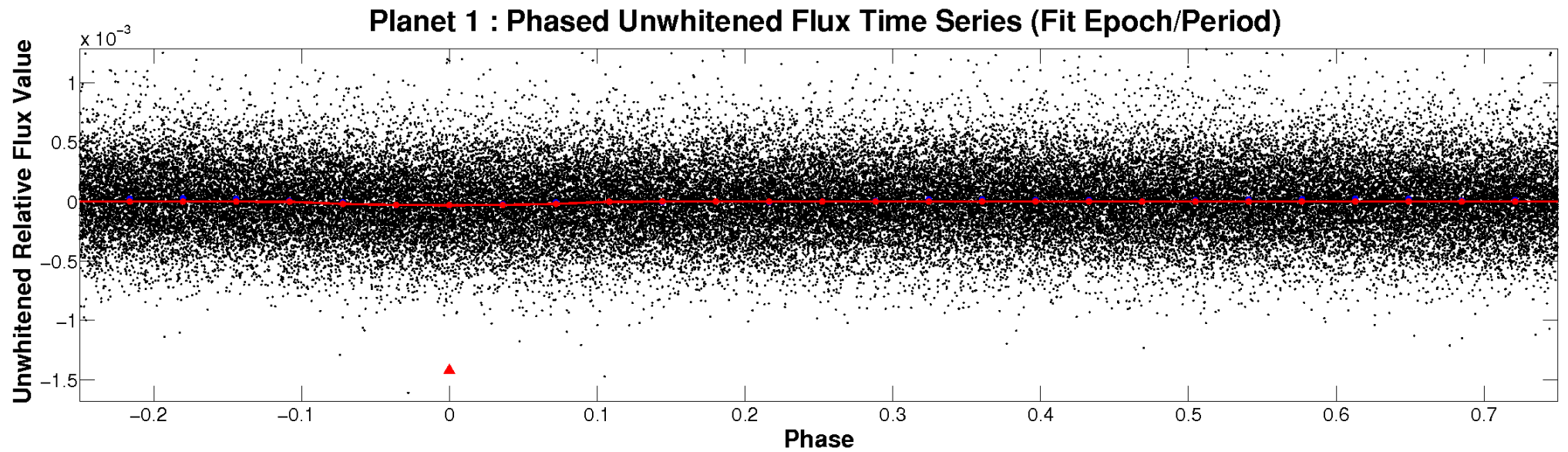


ALT Odd/Even

TCE 007362695-01

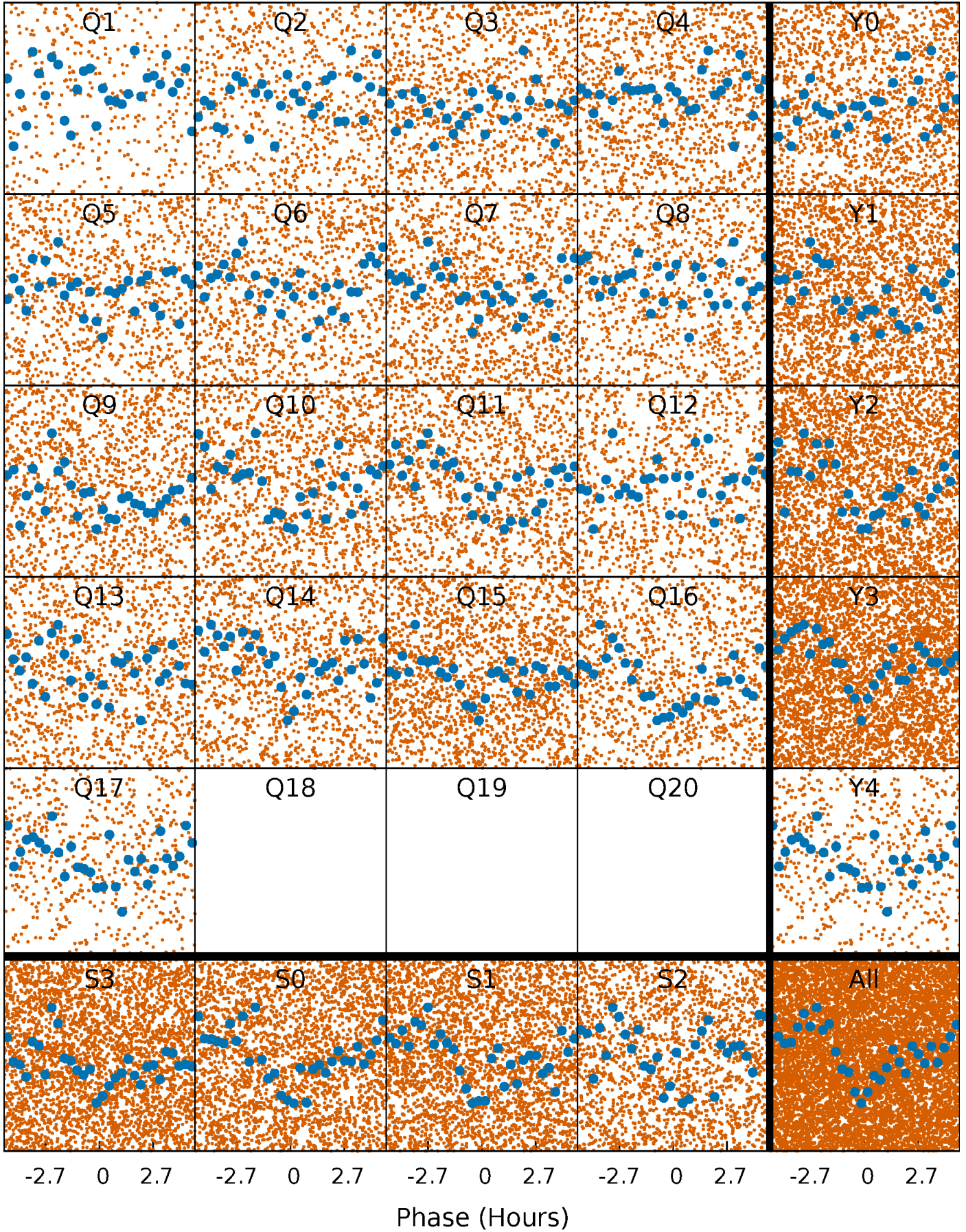


Non-Whitened Vs. Whitened Light Curve



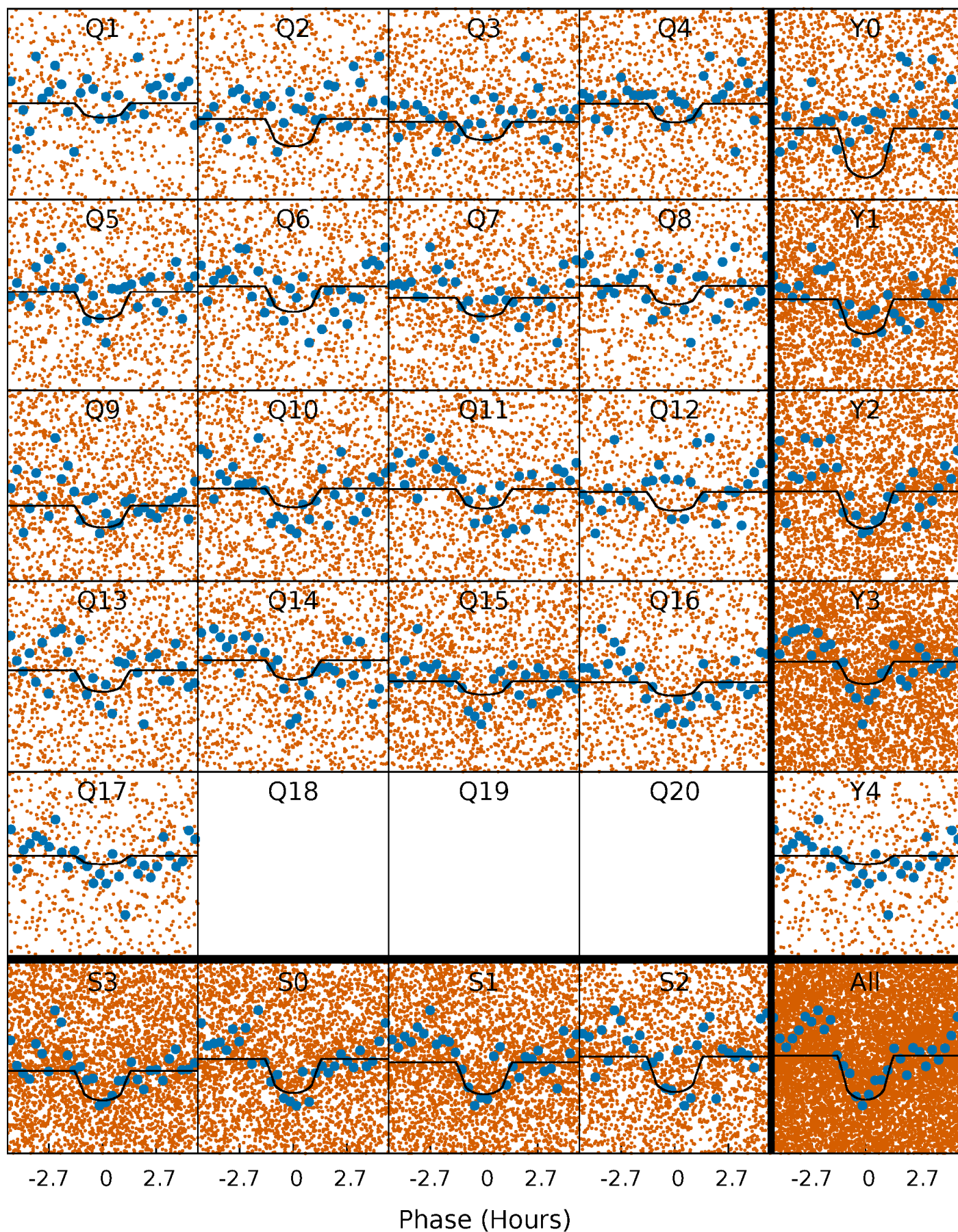
PDC Quarter-Phased Transit Curves

TCE 007362695-01 P= 0.566784 Days $T_0=131.830008$ (BKJD)



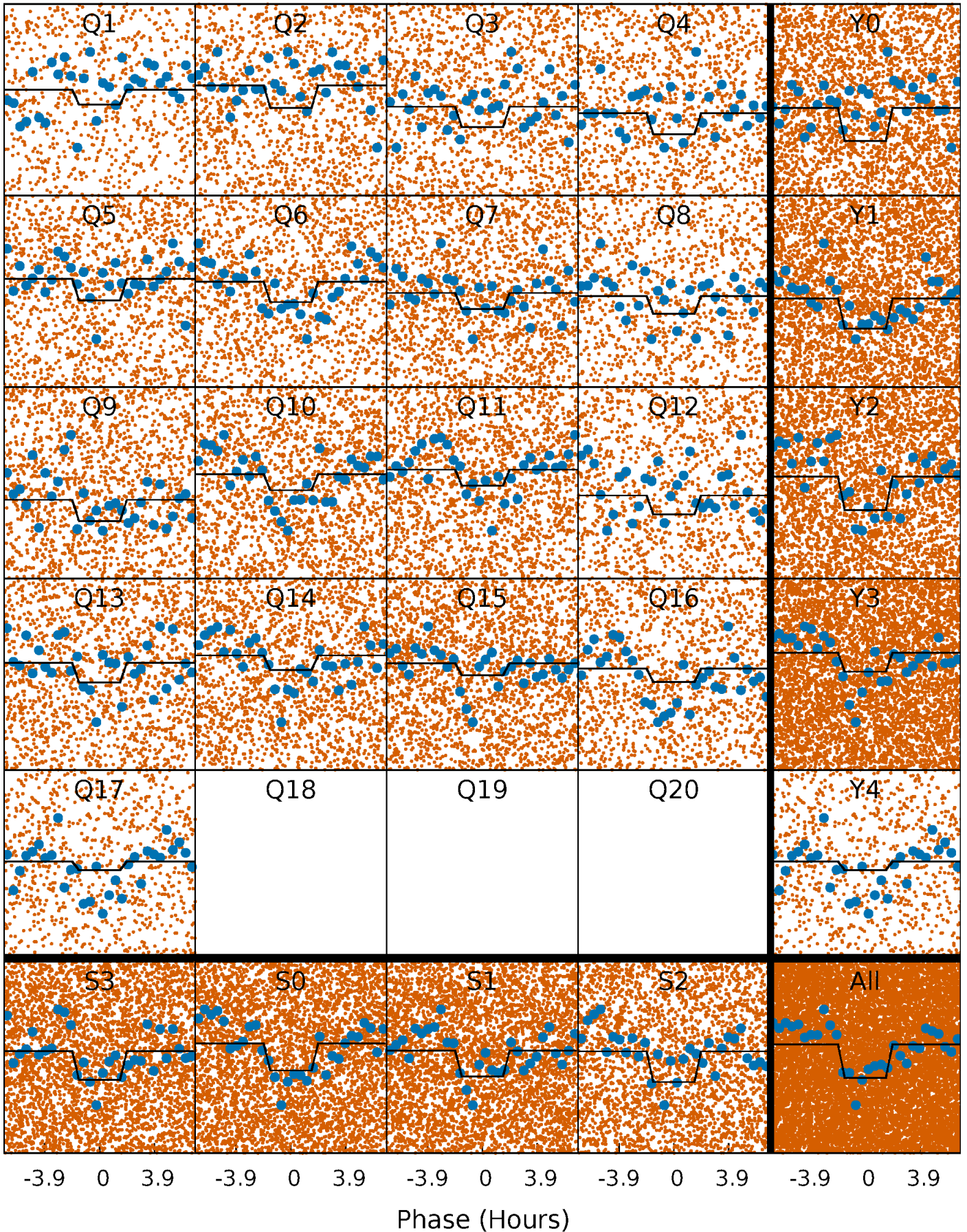
DV Quarter-Phased Transit Curves

TCE 007362695-01 P= 0.566784 Days $T_0=131.830008$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

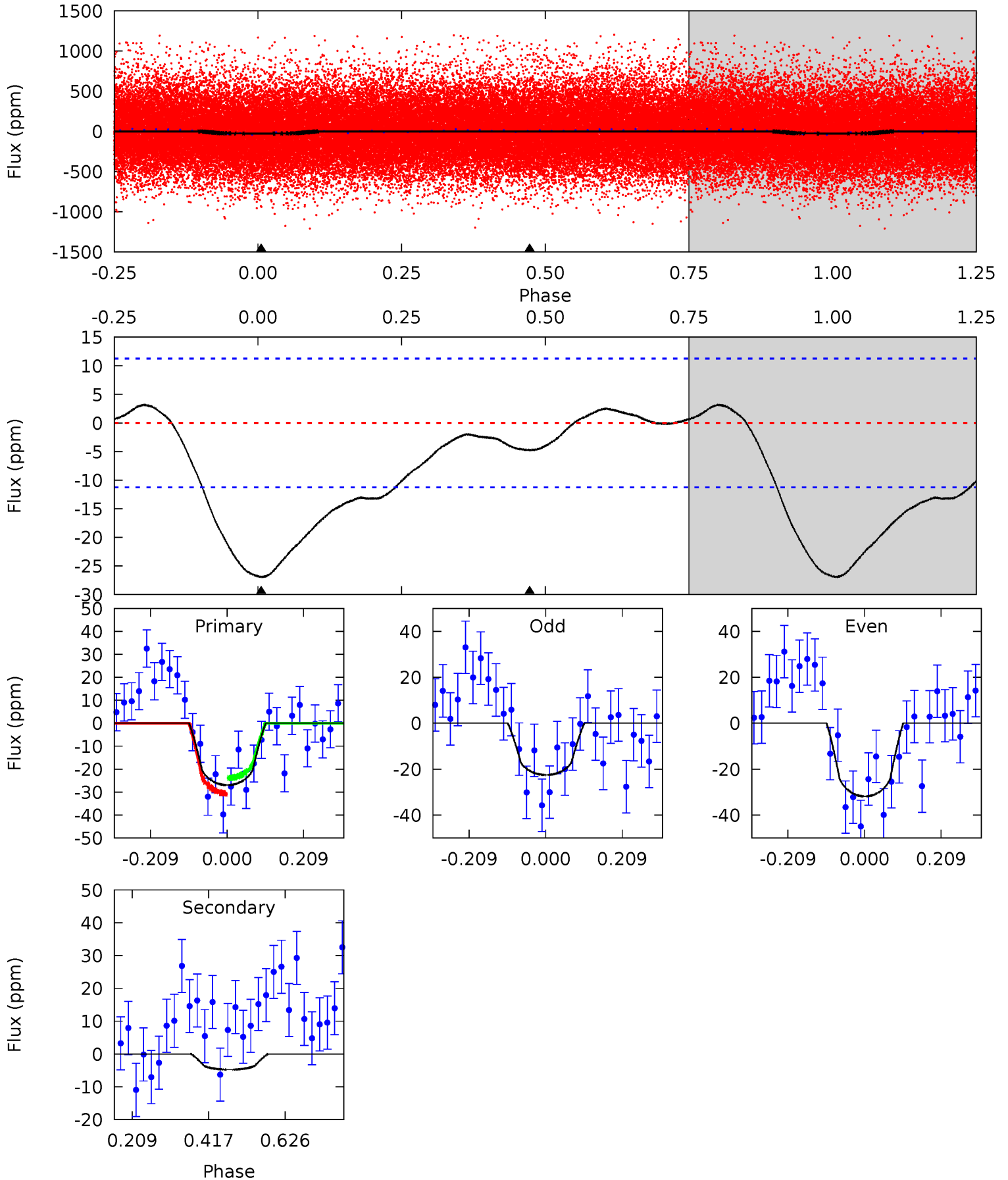
TCE 007362695-01 P= 0.566795 Days $T_0=131.833034$ (BKJD)



DV Model-Shift Uniqueness Test

007362695-01, P = 0.566784 Days, E = 131.263224 Days

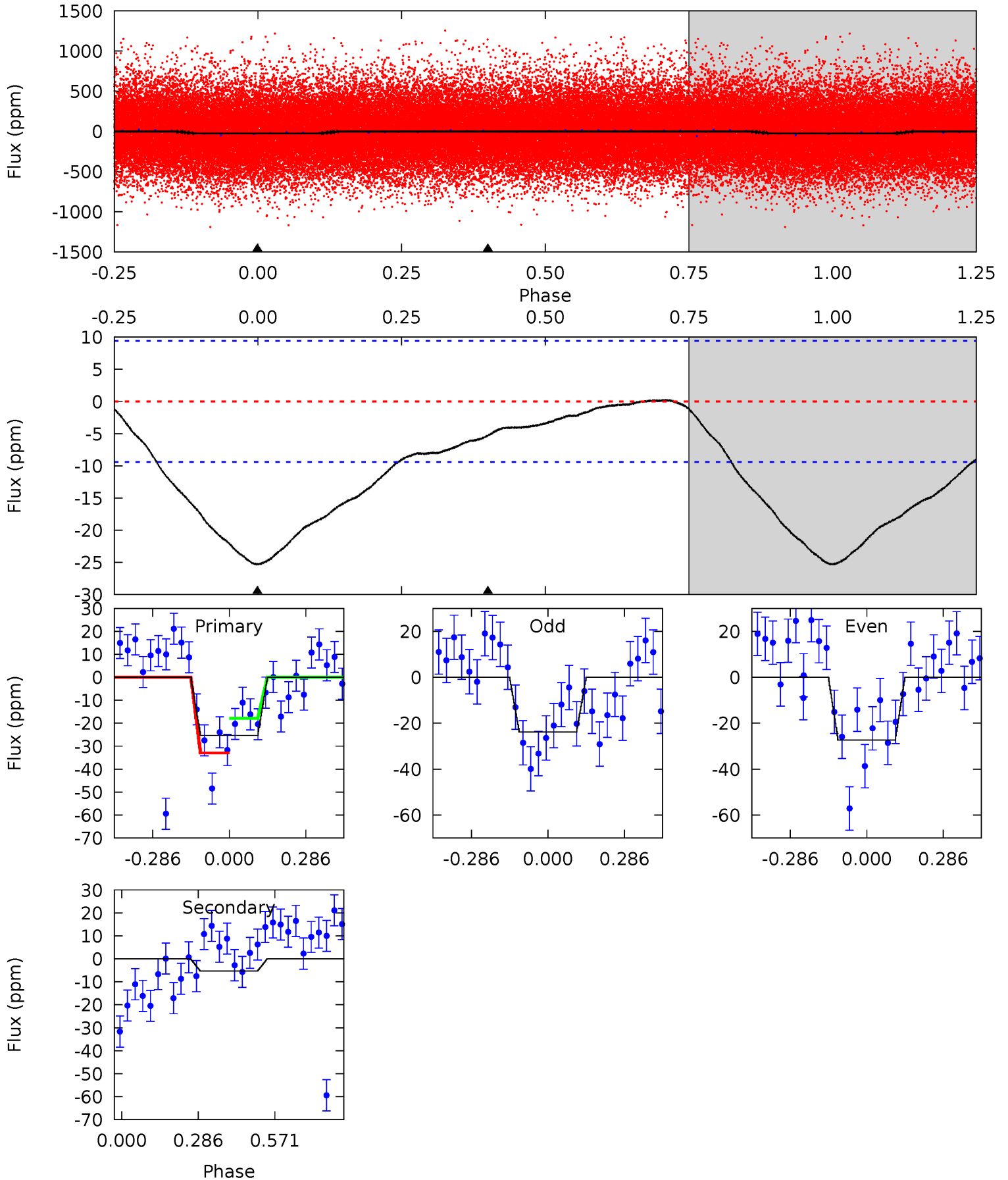
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	1.88	0	0	4.41	1.26	2.18	10.6	10.6	1.88	1.88	1.82	1.00	0.11	1.32



Alt Model-Shift Uniqueness Test

007362695-01, P = 0.566795 Days, E = 131.266239 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	2.45	0	0	4.34	1.07	0.15	11.7	11.7	2.45	2.45	0.80	1.01	0.01	3.48



Stellar Parameters For KIC 007362695

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5402^{+177}_{-145}	$4.411^{+0.153}_{-0.204}$	$-0.080^{+0.300}_{-0.300}$	$0.932^{+0.243}_{-0.149}$	$0.816^{+0.118}_{-0.059}$	$1.420^{+0.853}_{-0.720}$
	+3%/-3%	+3%/-5%	+375%/-375%	+26%/-16%	+14%/-7%	+60%/-51%
Source	PHO1	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 007362695-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-5 ± 3	$0.58^{+0.30}_{-0.29}$	2896^{+255}_{-185}	3560^{+1127}_{-1120}	$1.193^{+3.334}_{-0.827}$
Alt.	-5 ± 2	$0.54^{+0.31}_{-0.27}$	2890^{+201}_{-166}	3769^{+1344}_{-825}	$1.578^{+5.021}_{-1.040}$

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 $A_{obs} \gg 1.0$

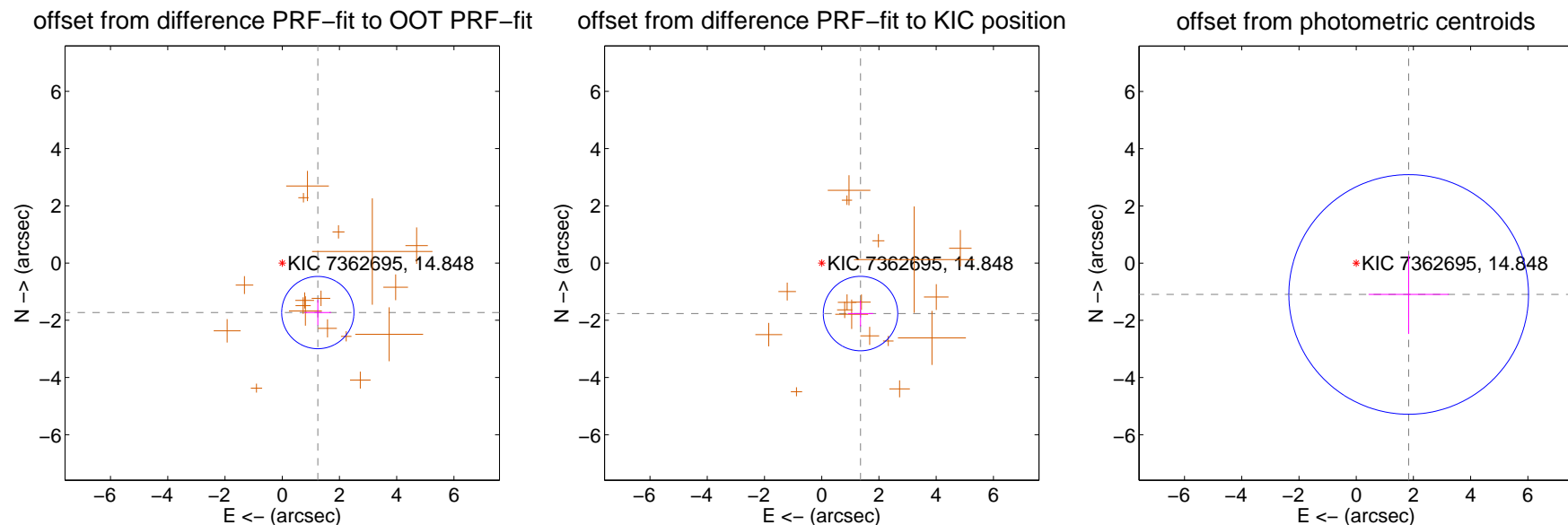
DV Centroid Data

Supplemental centroid analysis for 007362695-01. Kepler magnitude: 14.85. Transit SNR 9.03

There are 0 quarters with good PRF difference image offsets

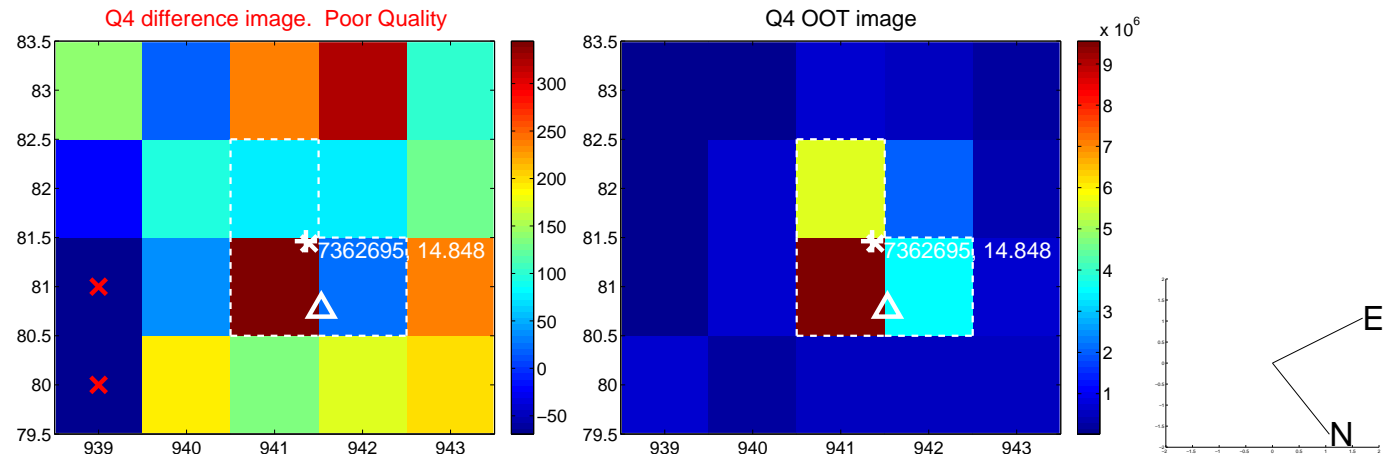
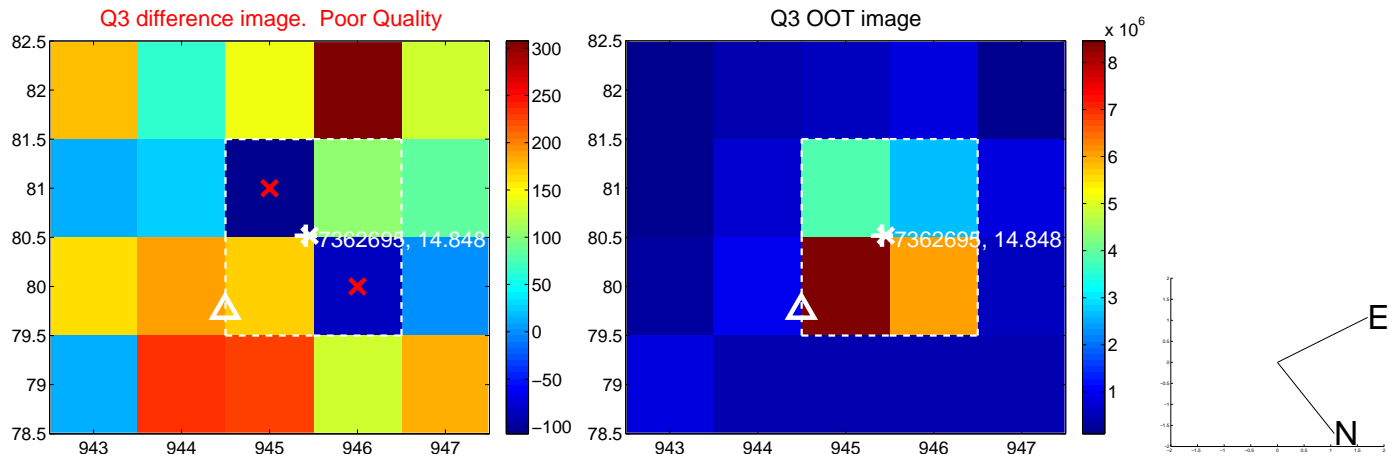
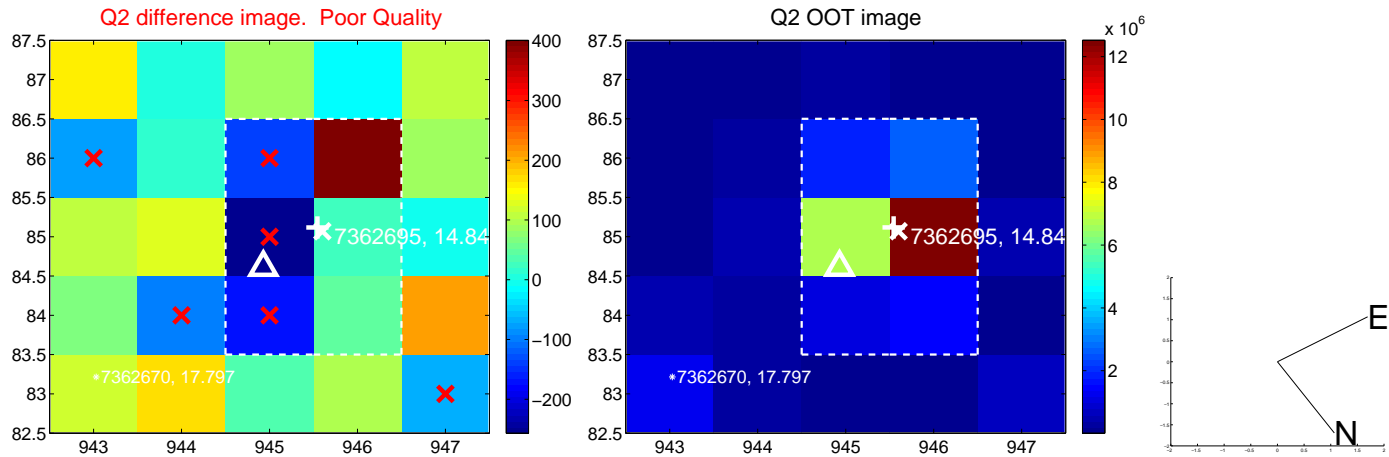
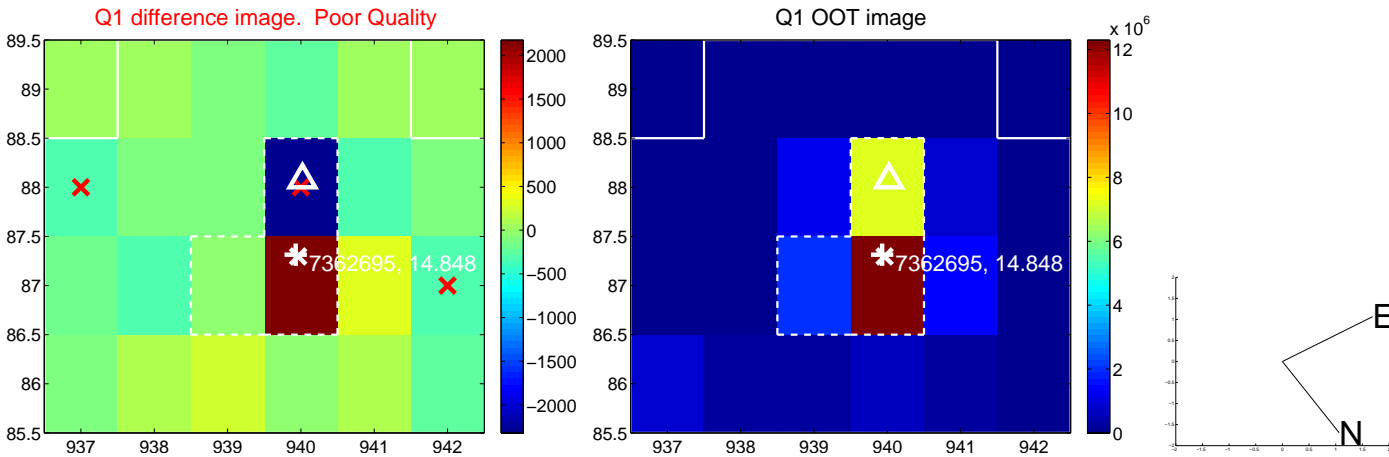
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.131 ± 0.421	5.06	-1.244 ± 0.463	-1.731 ± 0.442
PRF-fit source offset from KIC position	2.226 ± 0.434	5.13	-1.355 ± 0.442	-1.765 ± 0.451
photometric centroid source offset	2.14 ± 1.40	1.53	-1.83 ± 1.40	-1.10 ± 1.38

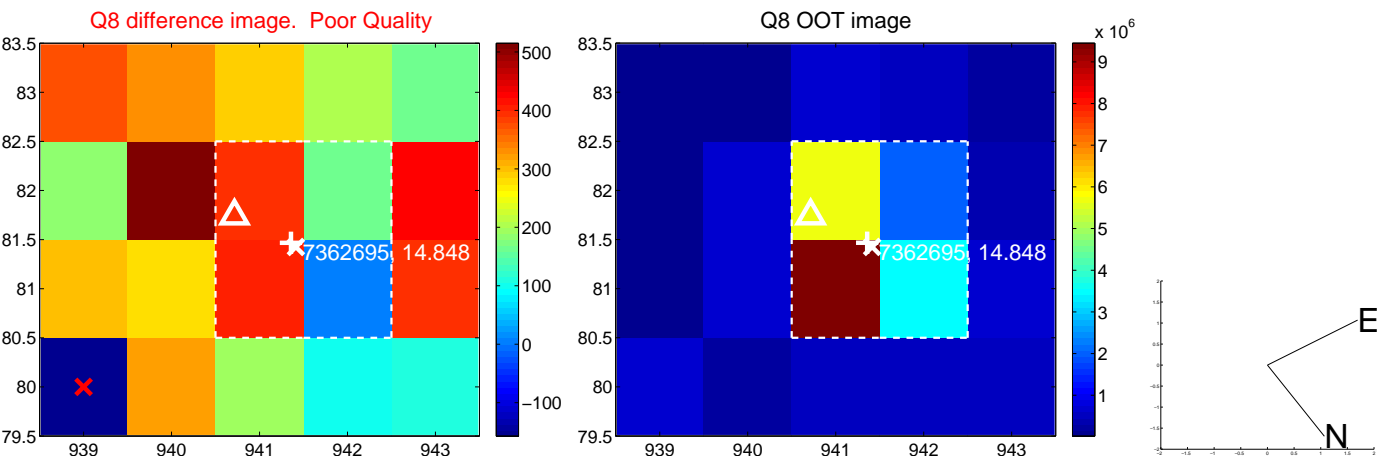
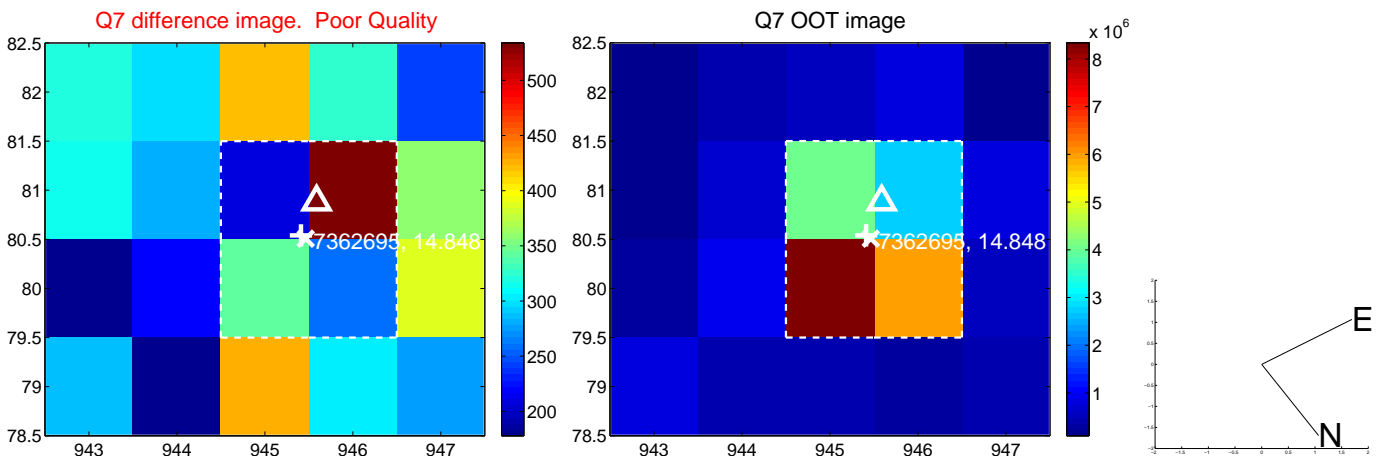
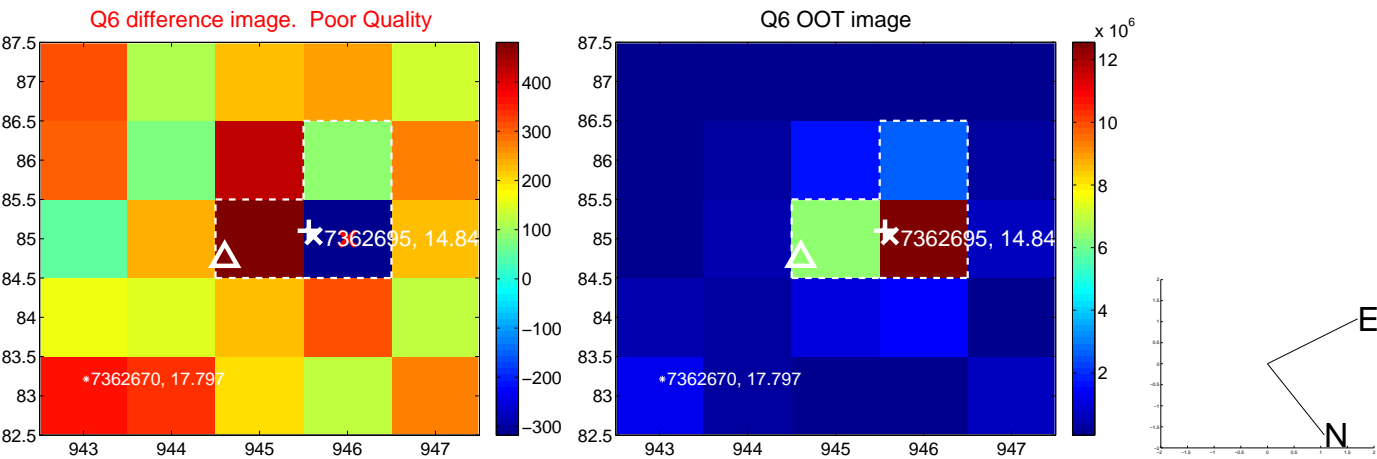
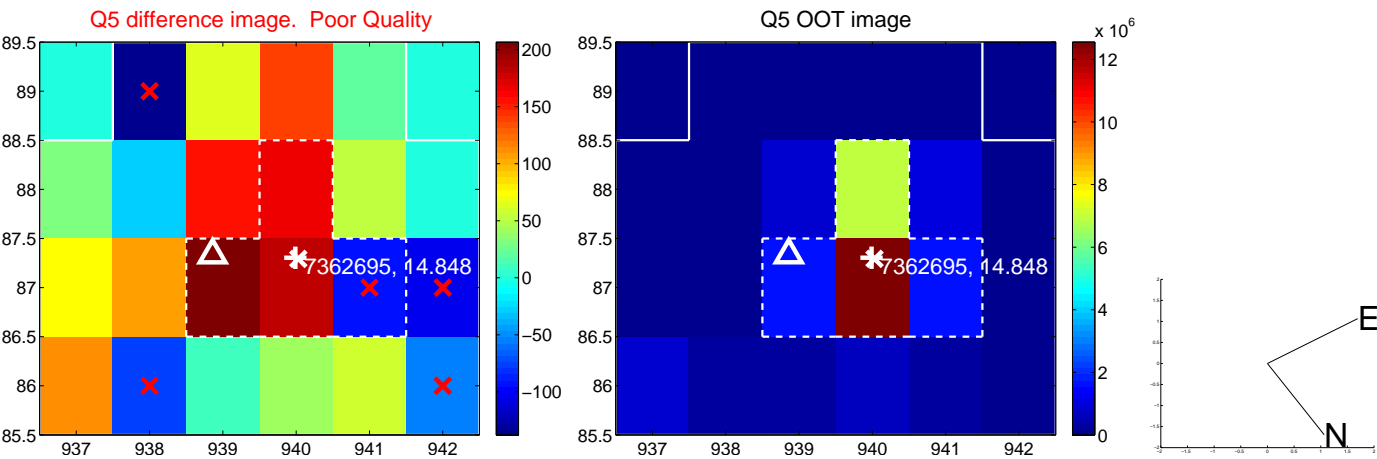


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

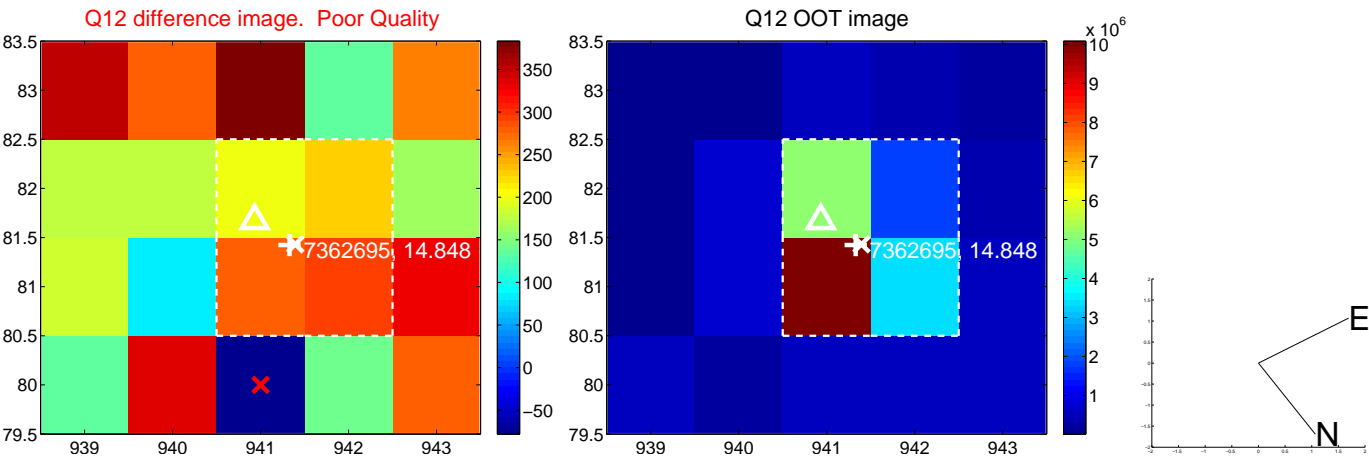
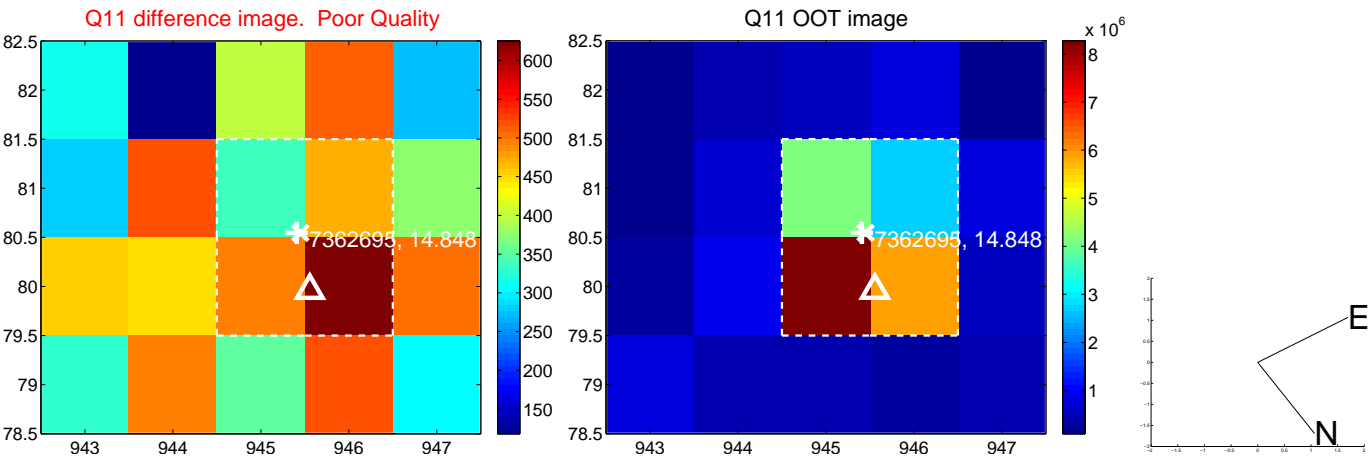
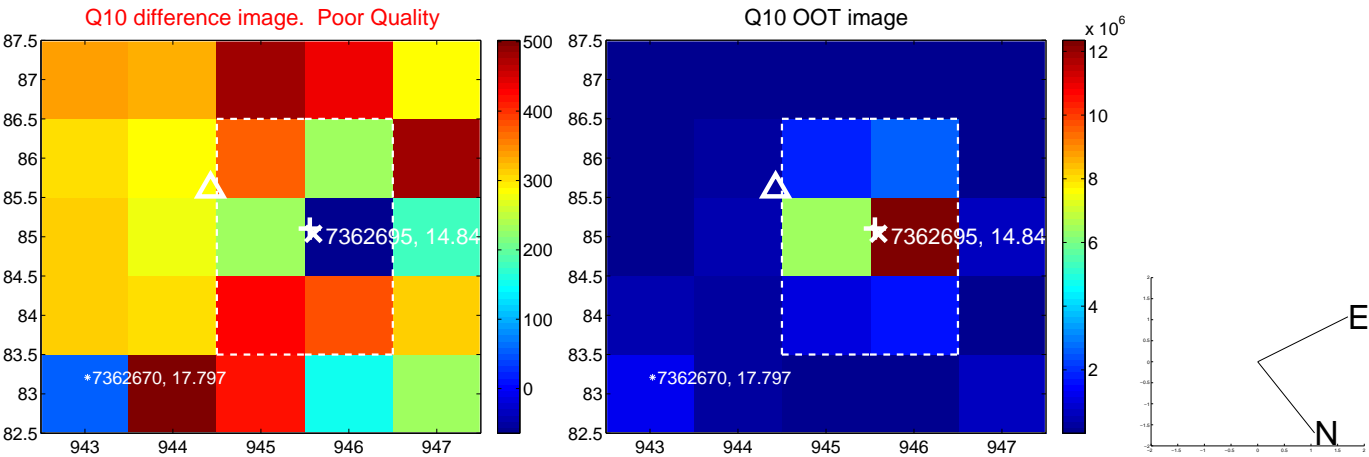
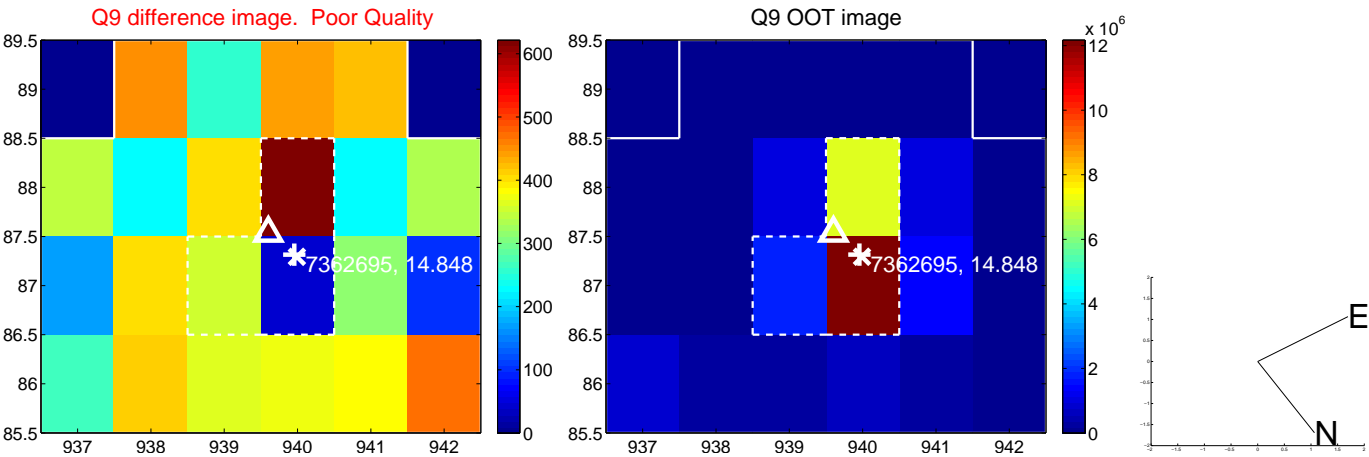
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



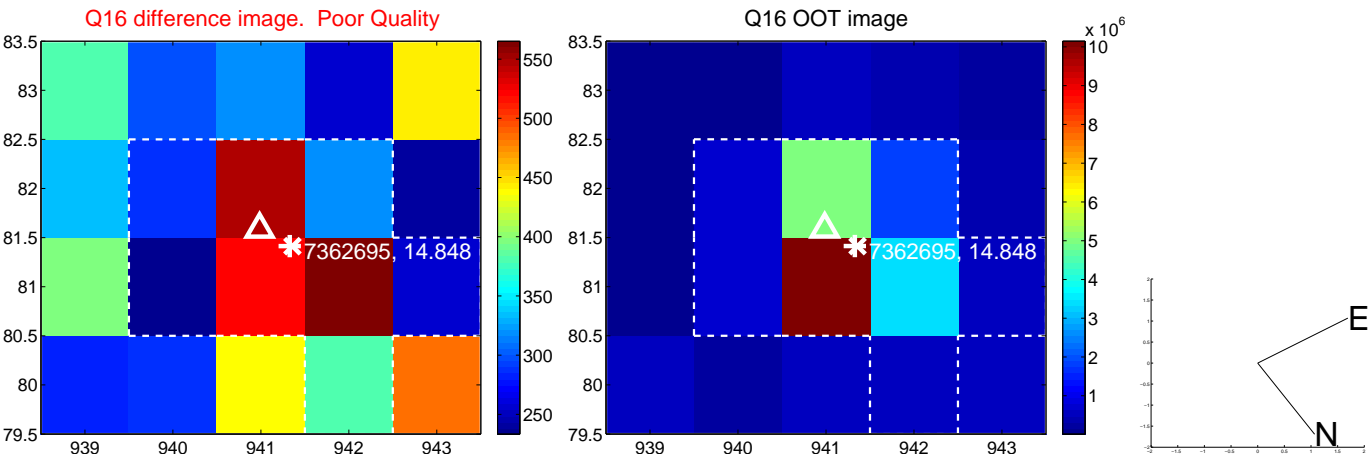
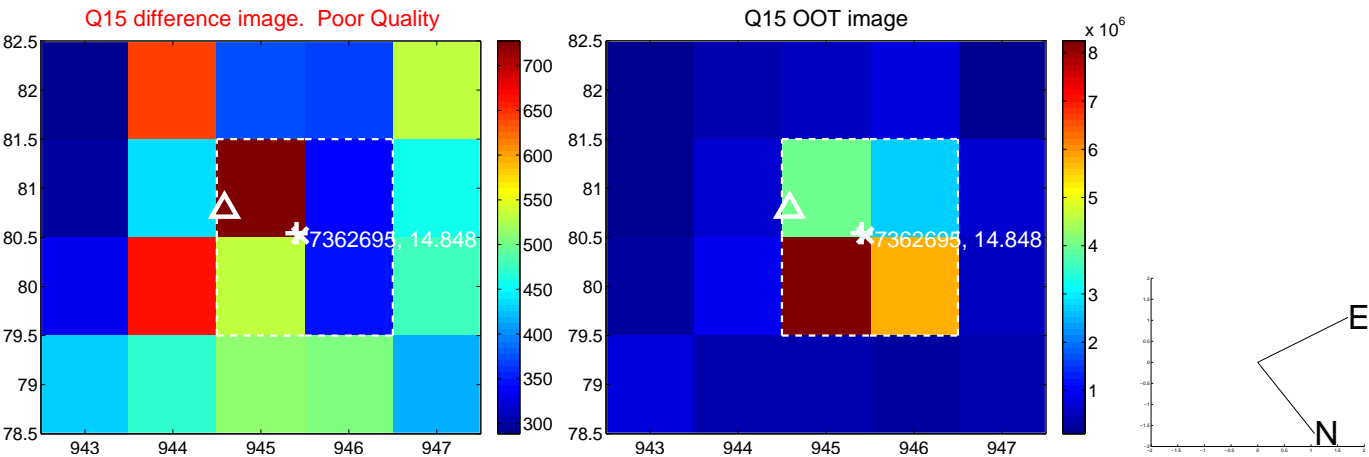
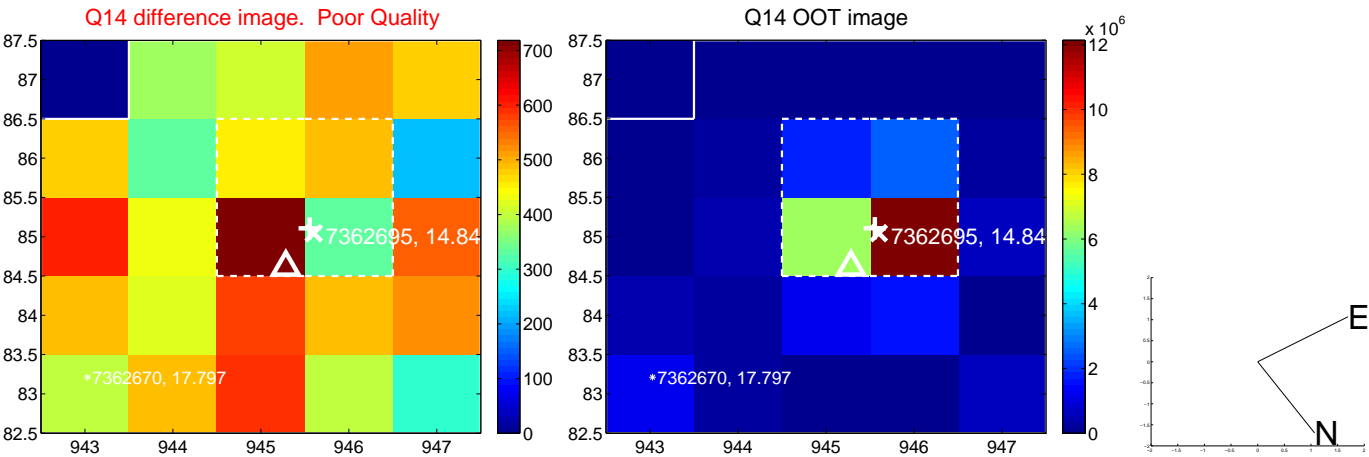
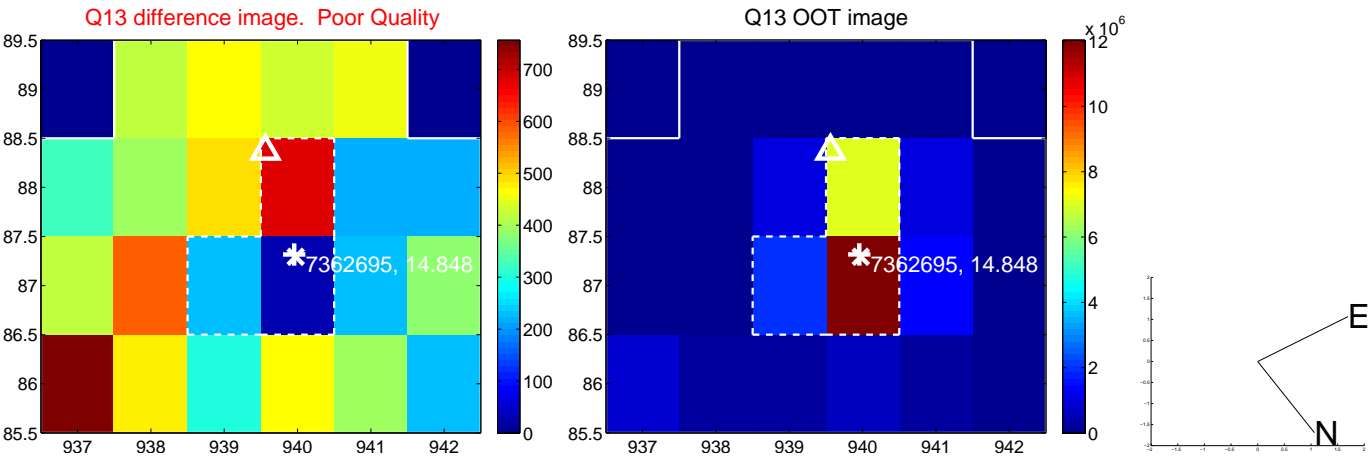
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



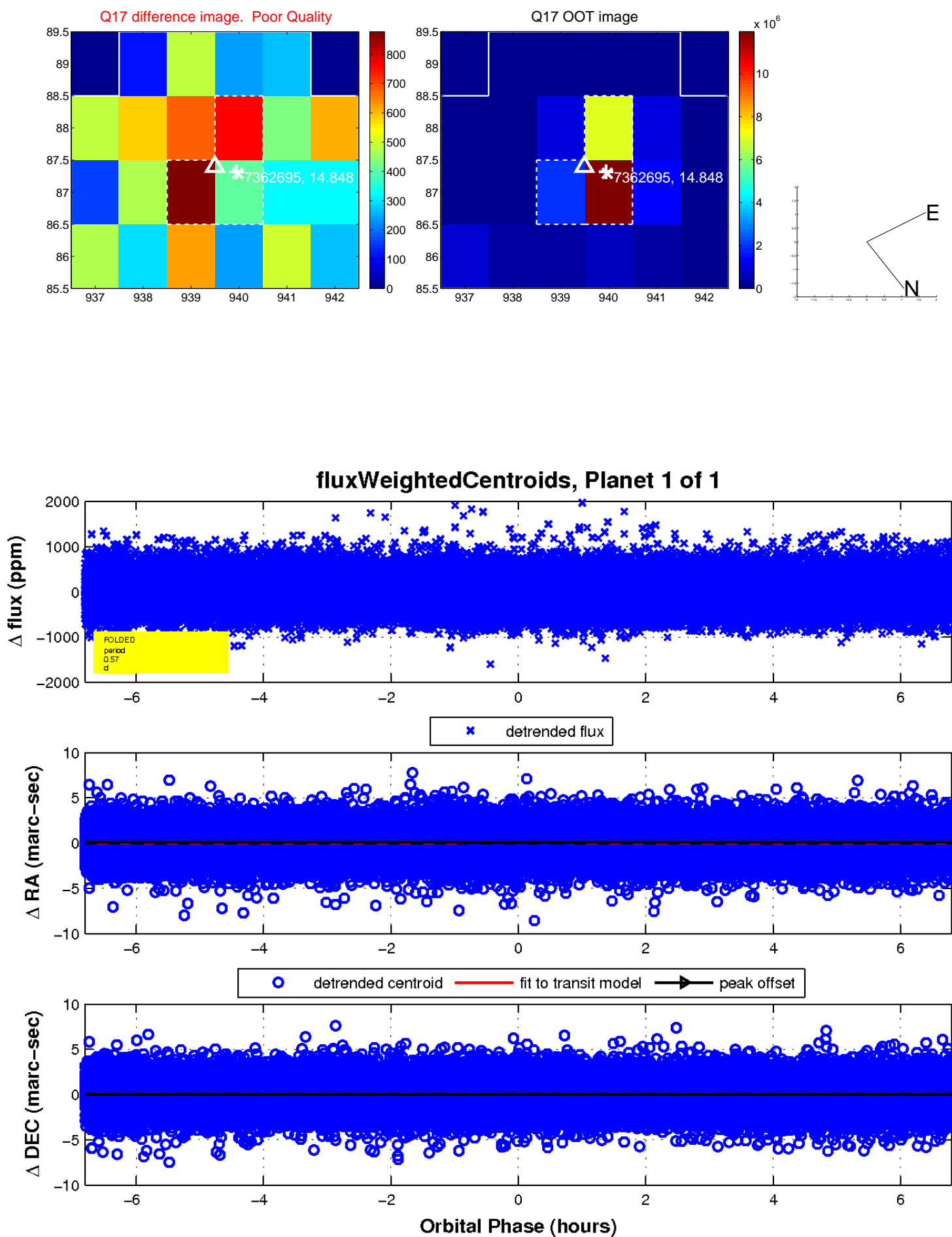
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

