

KIC 007199037

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})
007199037-01	OBS	No	0.566667	131.717434	0.1	3.376	14.1	0.0	0.93	6003	0.03	5557.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007199037-01	OBS	FP	0.00	1	0	1	1	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET—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.

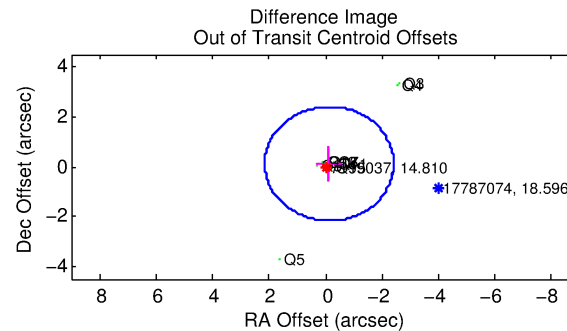
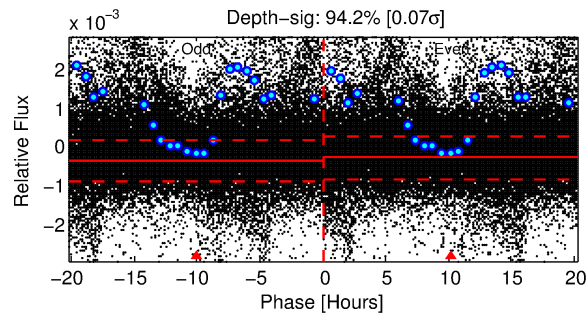
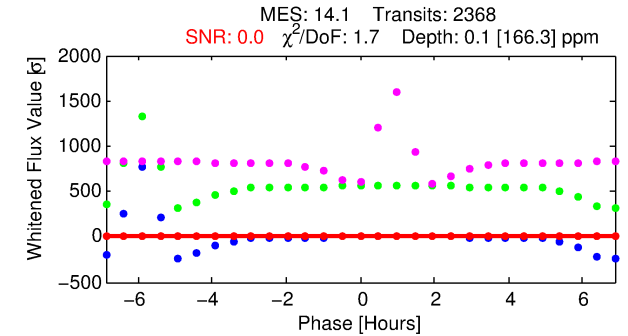
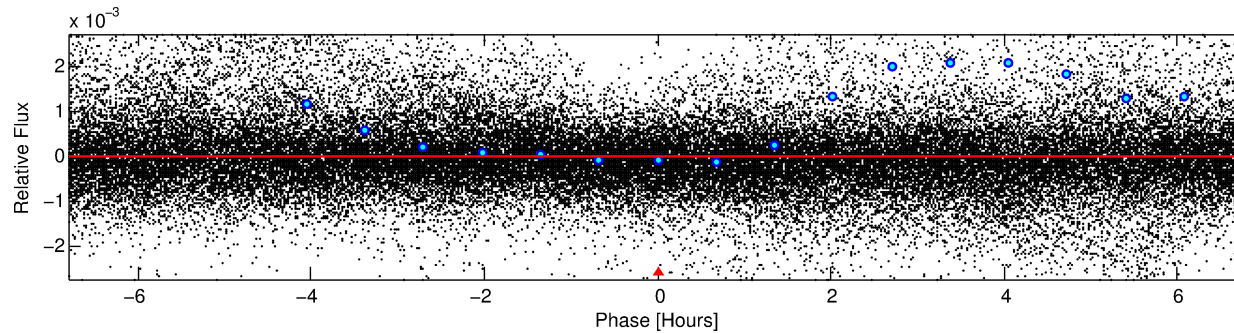
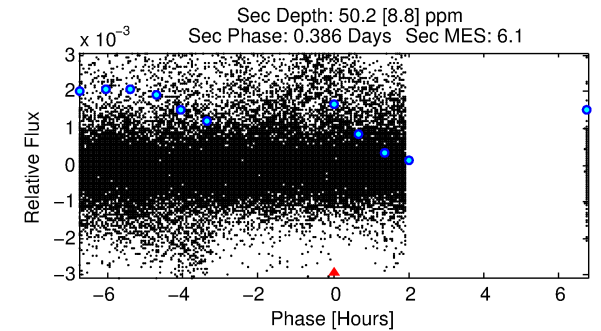
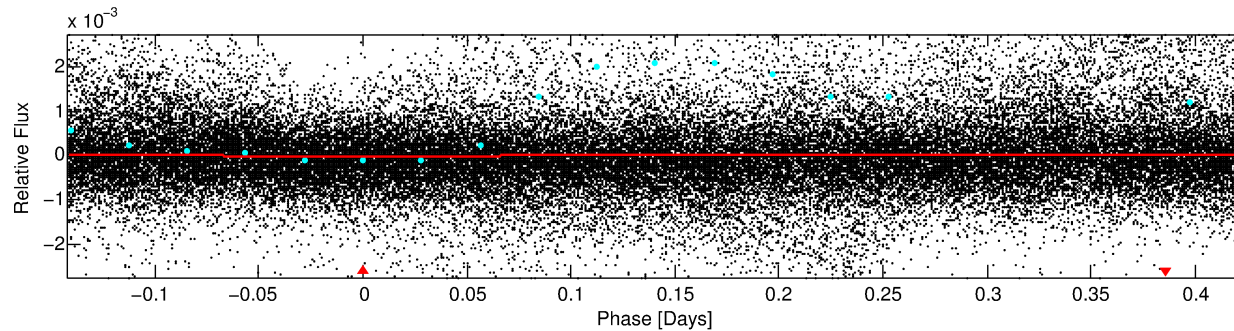
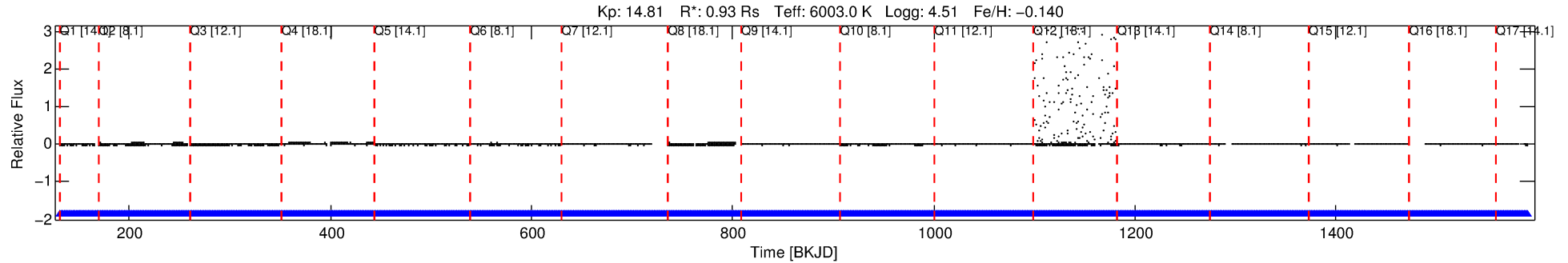
Ephemeris Match Information For 007199037-01

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
007199037-01	7199037	RR-Lyr-pri	7198959	1:1	63.2	16	0	7.86	14.81	623300.00	Direct-PRF	0	0.24	15.60

Notes: $P_1:P_2$ 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. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 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: 7199037 Candidate: 1 of 1 Period: 0.567 d



DV Fit Results:

Period = 0.56667 [0.17113] d
Epoch = 131.7174 [54.5975] BKJD
Rp/R* = 0.0003 [0.3314]
a/R* = 1.11 [304.12]
b = 0.88 [388.16]
Seff = 5557.44 [3115.45]
Teq = 2202 [309] K
Rp = 0.03 [33.70] Re
a = 0.0135 [0.0044] AU
Ag = 5464.28 [12145910.85] [0.00σ]
Teffp = 29266 [16264972] K [0.00σ]

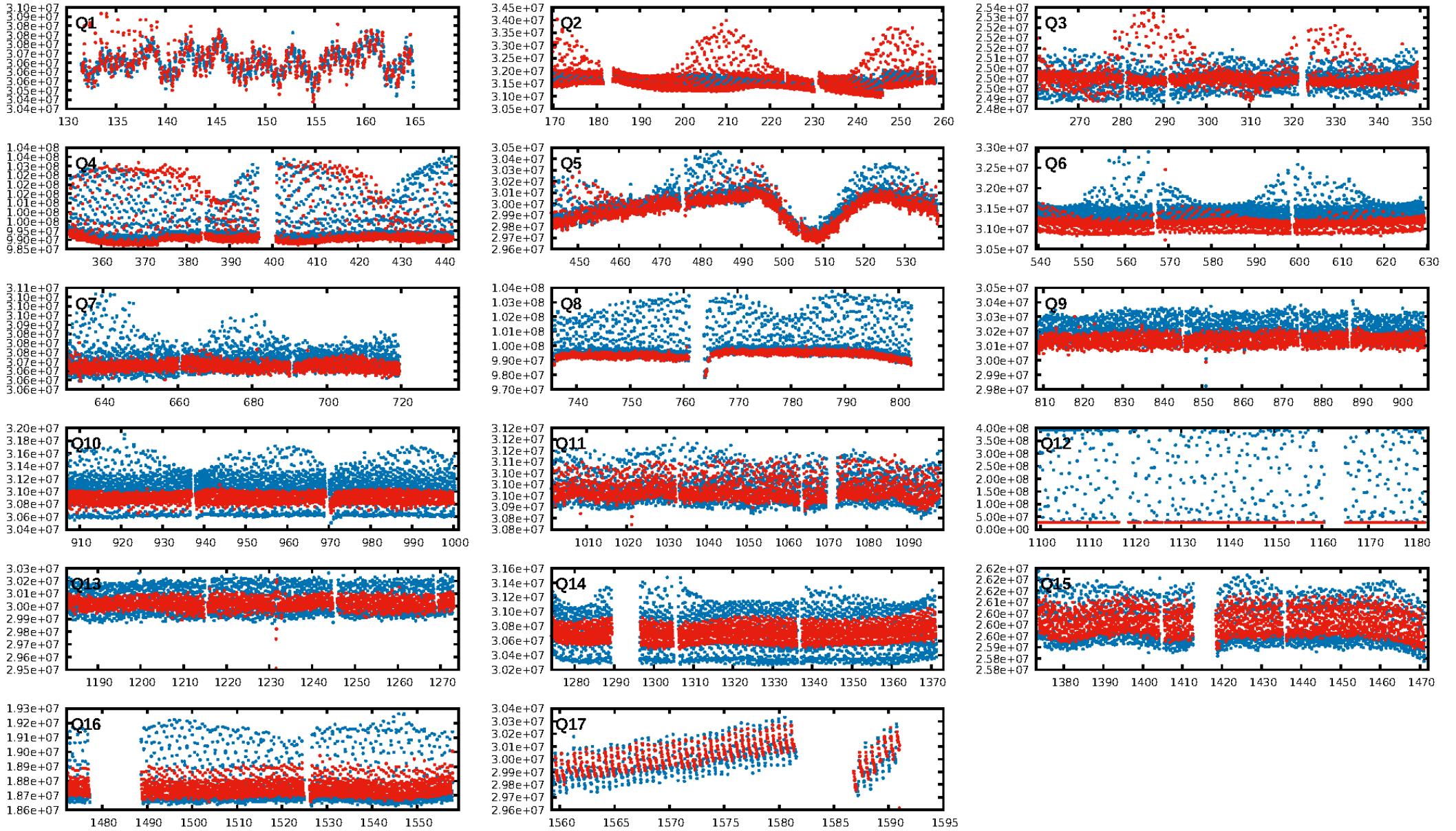
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.43e-01
RollingBand-fgt: 1.00 [2262/2262]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.172 arcsec [0.23σ]
KicOffset-rm: 4.482 arcsec [5.60σ]
OotOffset-st: 0/4/4/1 [9]
KicOffset-st: 0/4/4/1 [9]
DiffImageQuality-fgm: 0.67 [6/9]
DiffImageOverlap-fno: 1.00 [17/17]

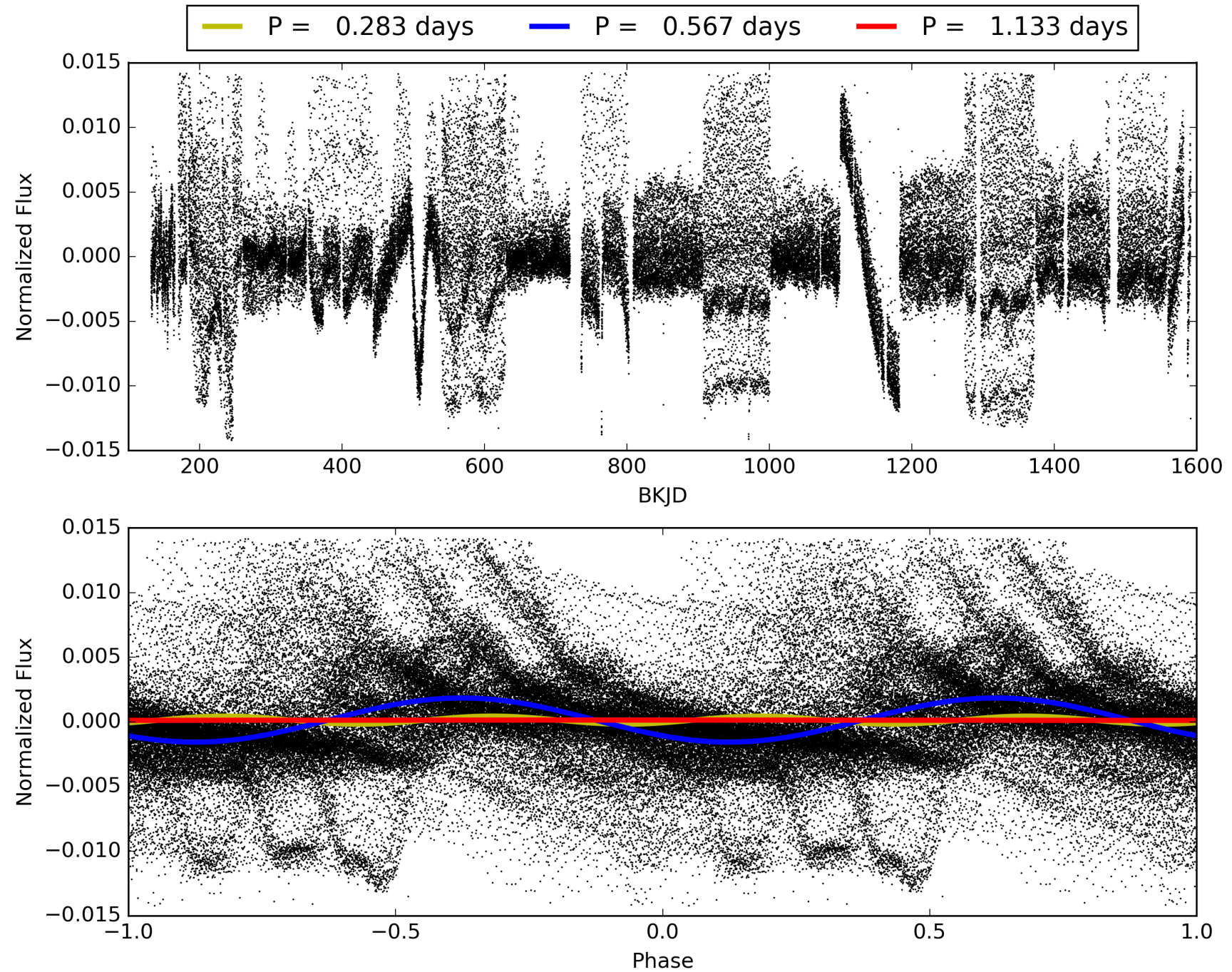
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:17:59 Z

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

TCE 007199037-01, PDC Light Curves

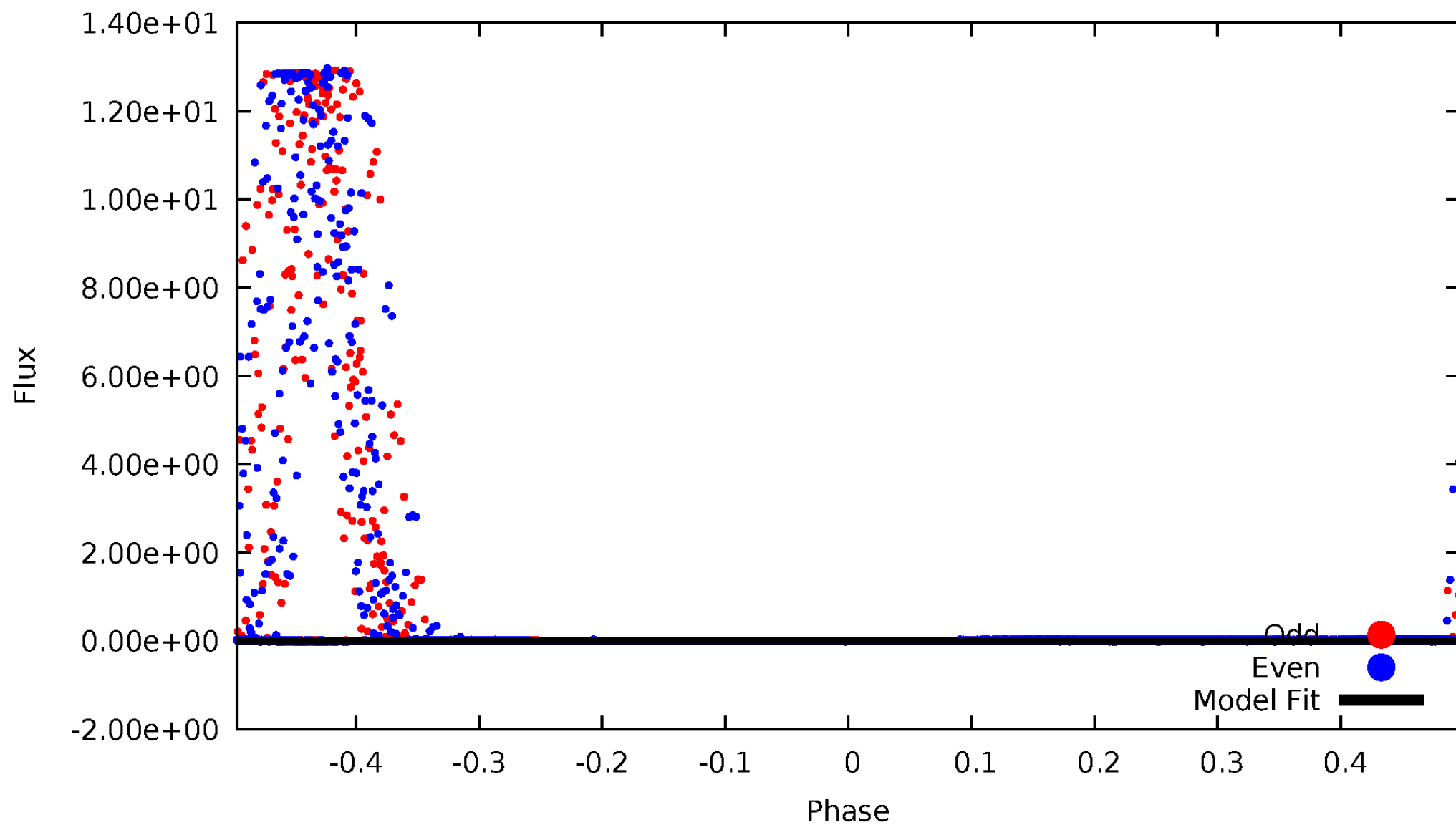


TCE 007199037-01



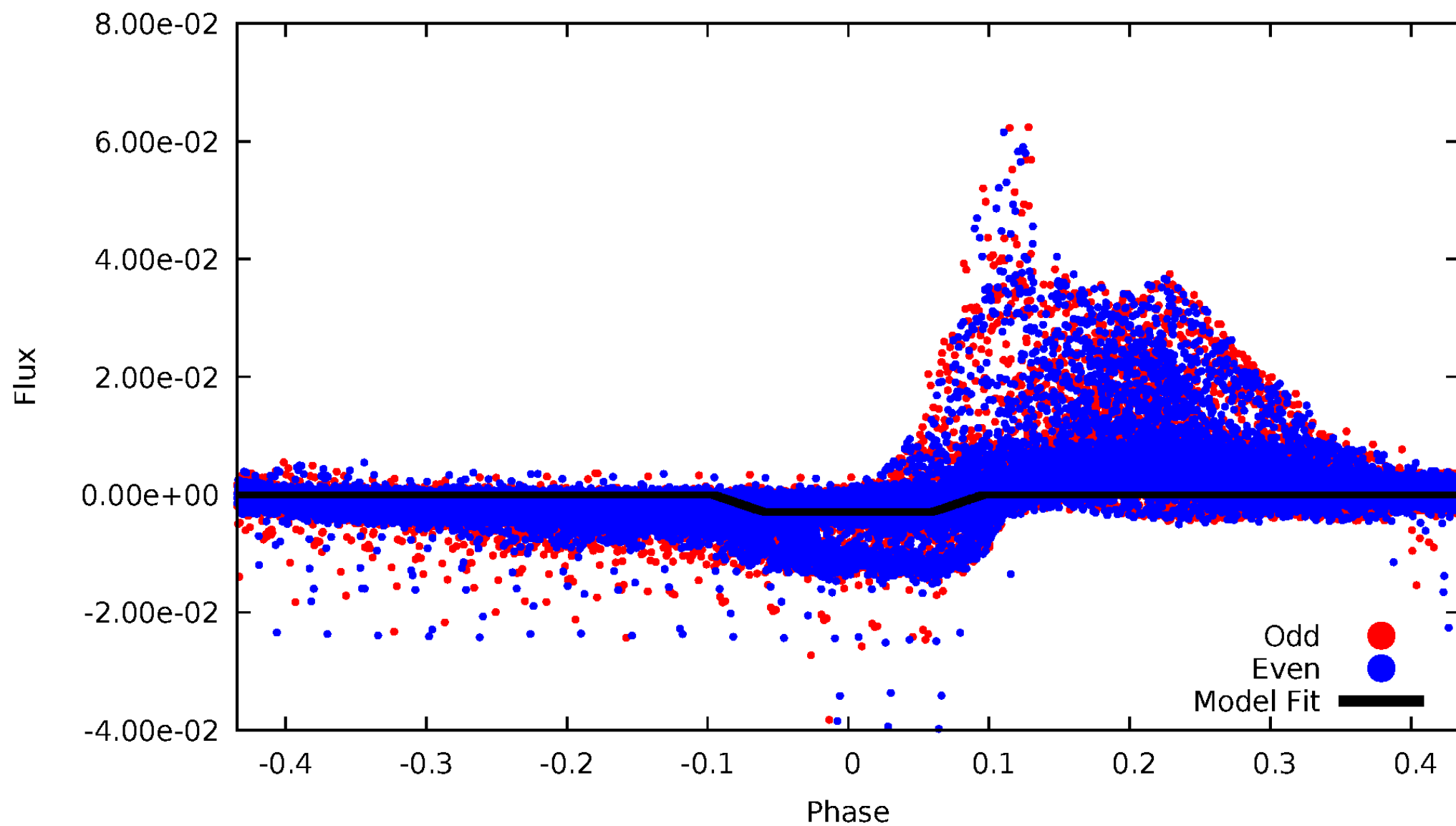
DV Odd/Even

TCE 007199037-01



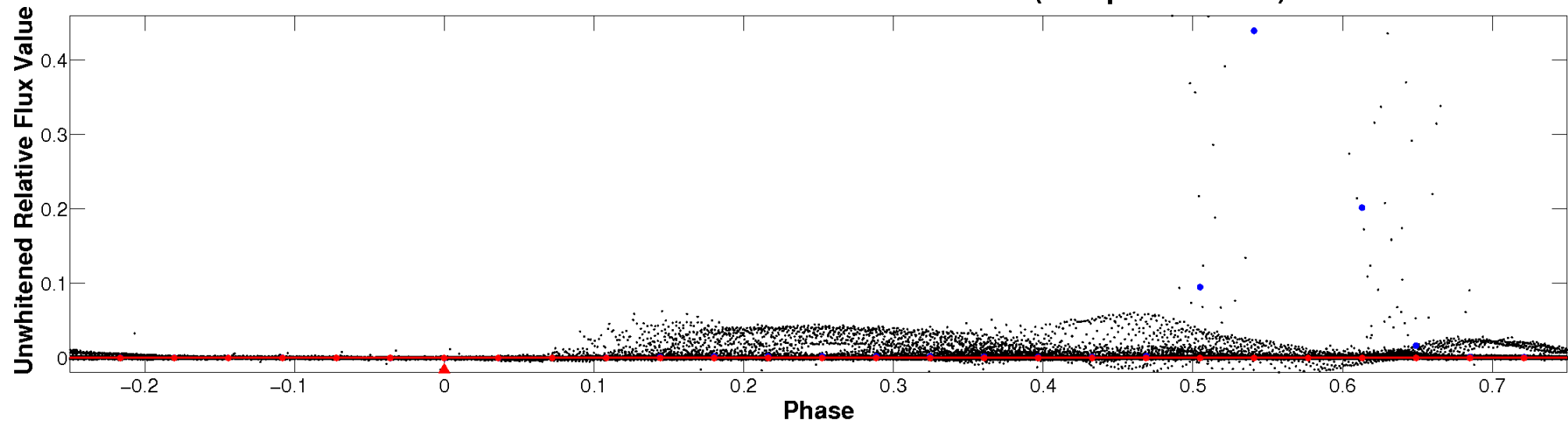
ALT Odd/Even

TCE 007199037-01

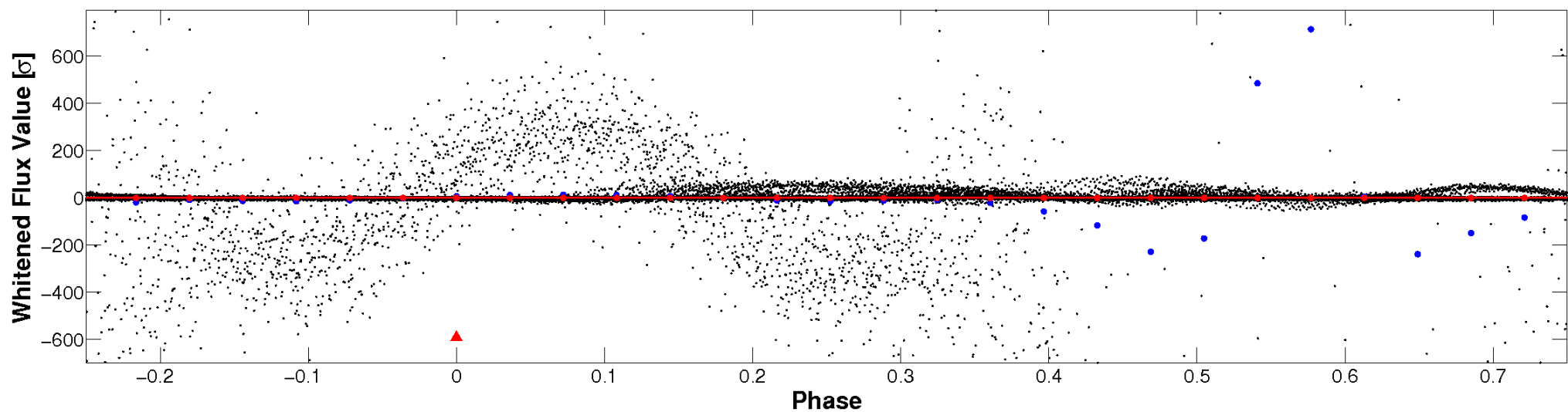


Non-Whitened Vs. Whitened Light Curve

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

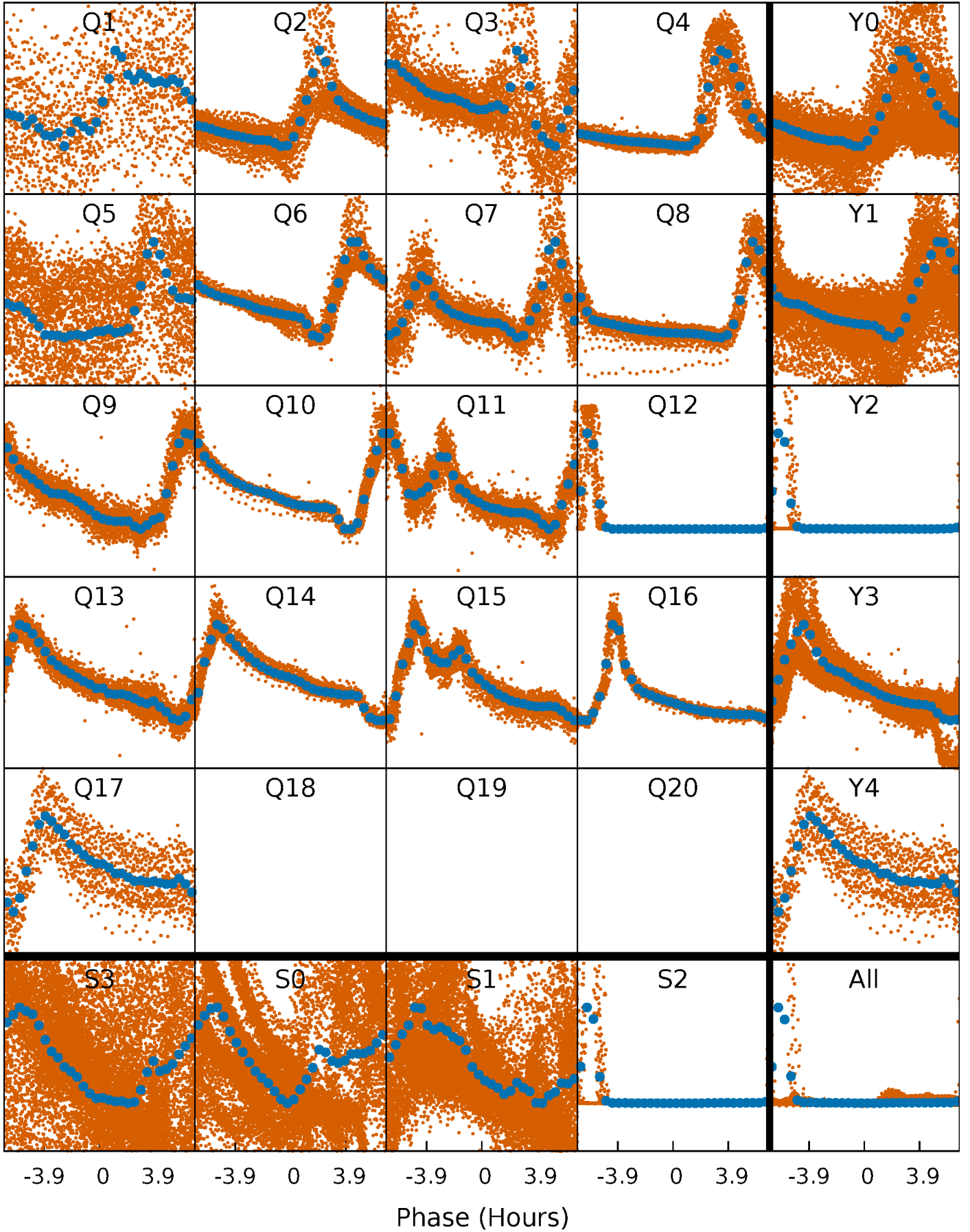


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



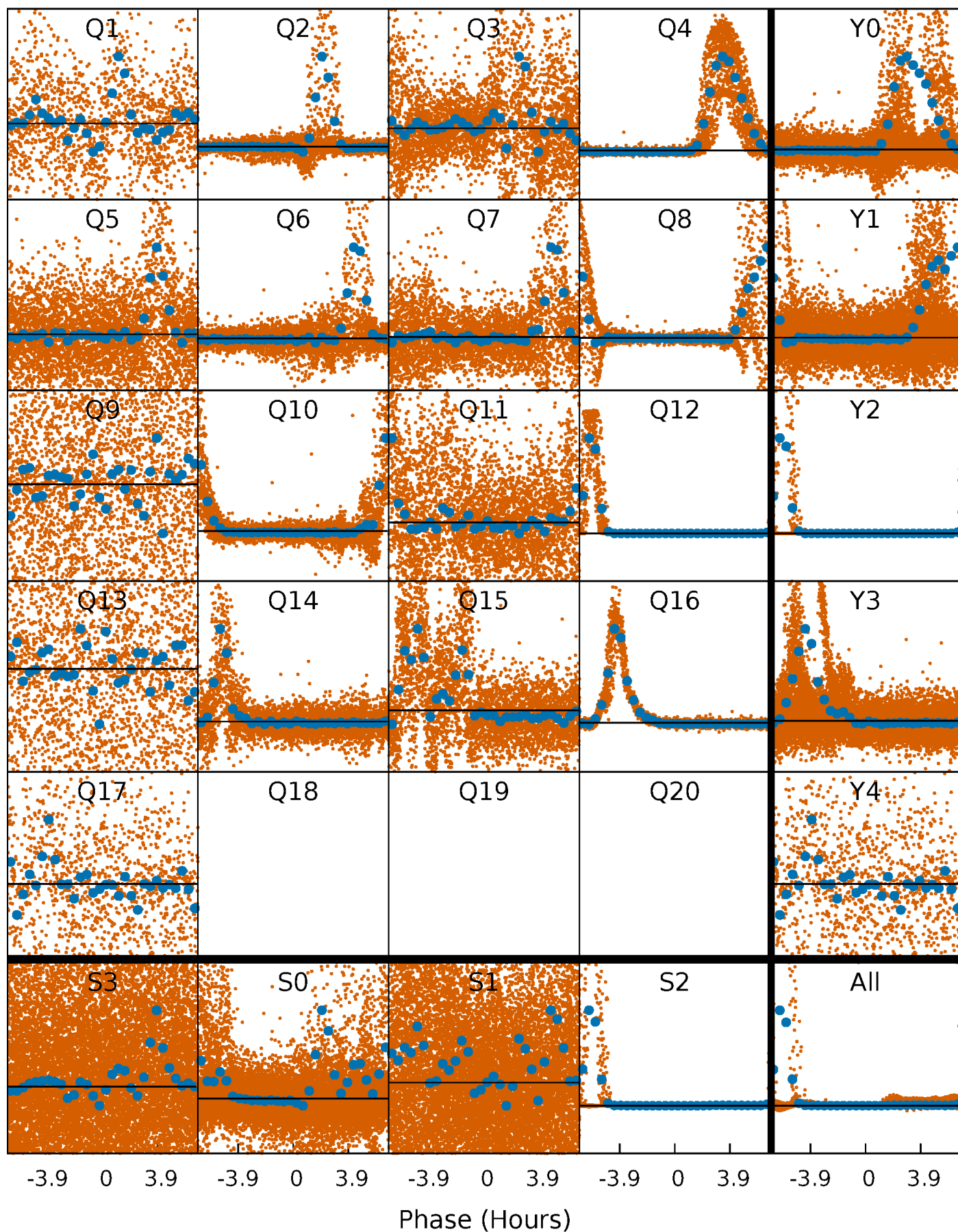
PDC Quarter-Phased Transit Curves

TCE 007199037-01 P= 0.566667 Days $T_0=131.717434$ (BKJD)



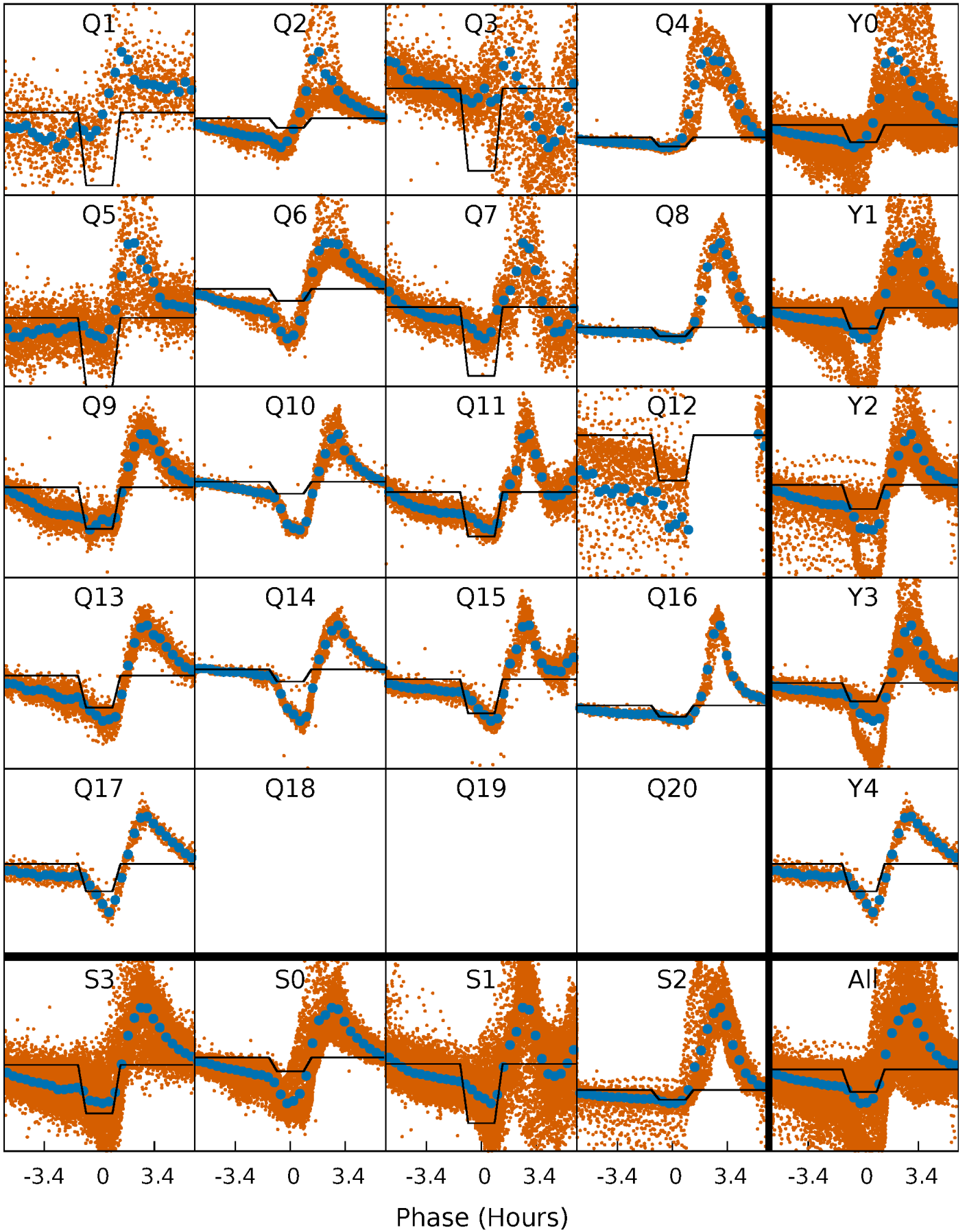
DV Quarter-Phased Transit Curves

TCE 007199037-01 P= 0.566667 Days $T_0=131.717434$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

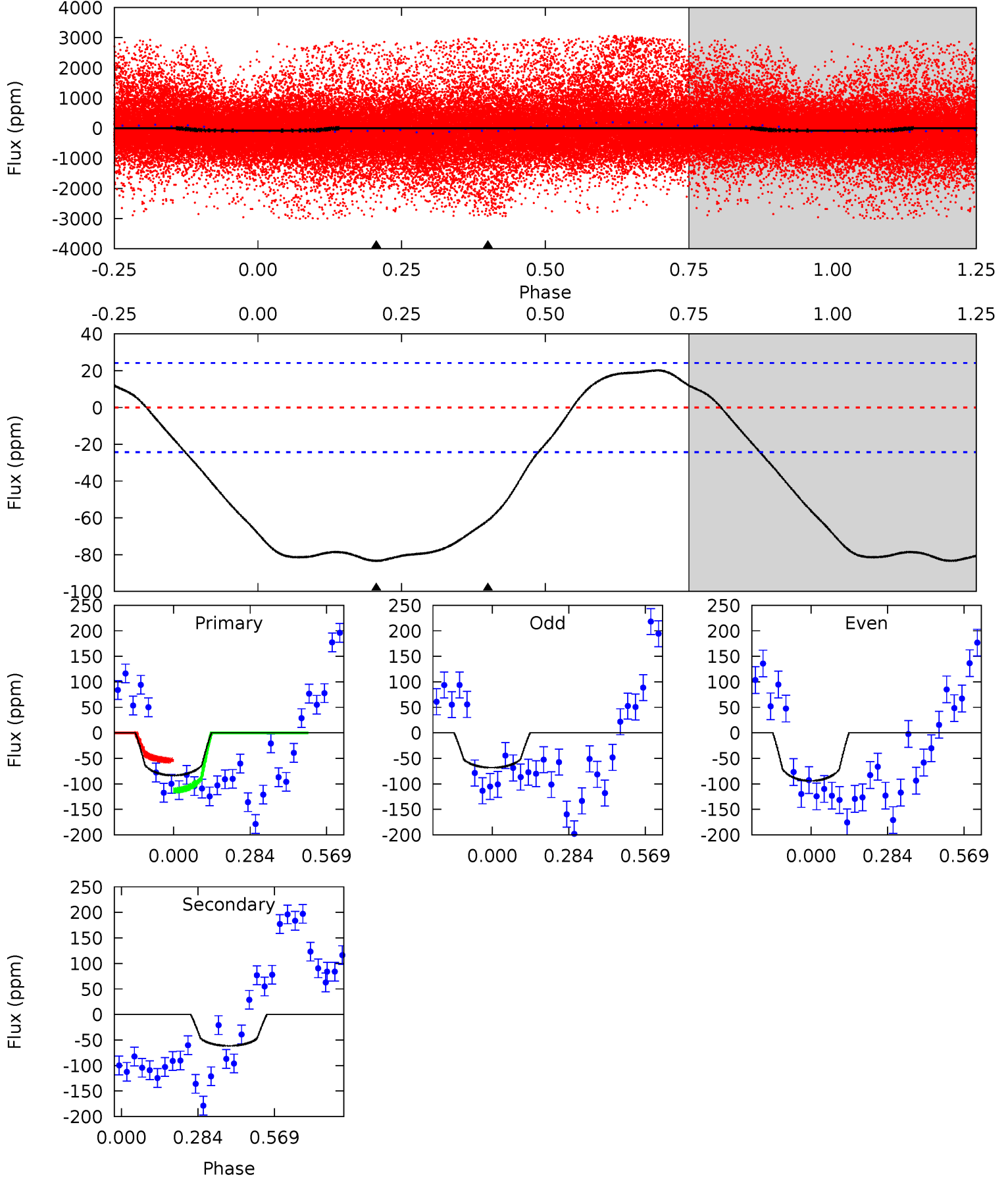
TCE 007199037-01 P= 0.566784 Days $T_0=131.708954$ (BKJD)



DV Model-Shift Uniqueness Test

007199037-01, P = 0.566667 Days, E = 131.150767 Days

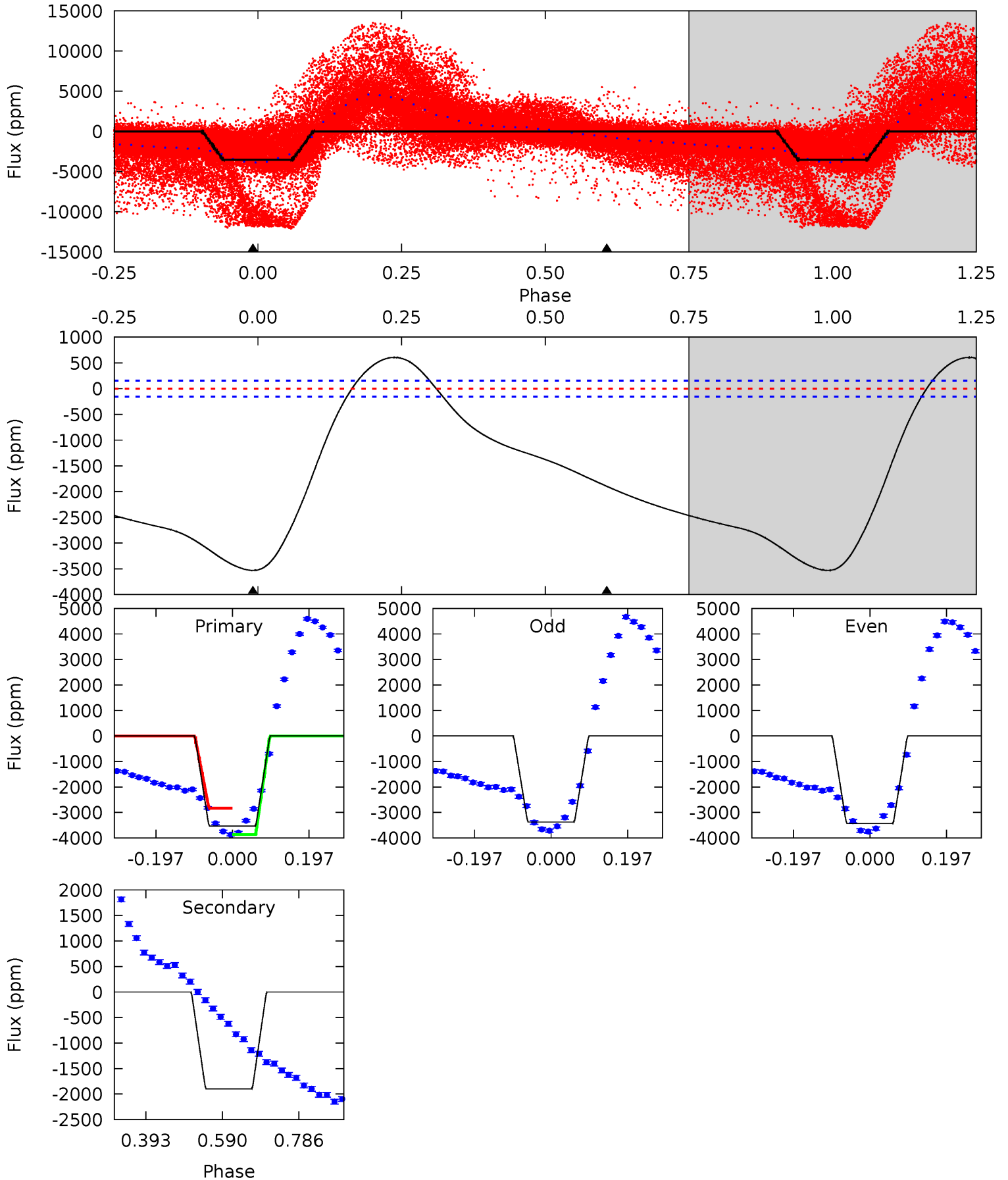
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.9	11.0	0	0	4.34	1.07	3.44	14.9	14.9	11.0	11.0	2.34	0.29	0.19	6.08



Alt Model-Shift Uniqueness Test

007199037-01, P = 0.566784 Days, E = 131.142170 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
100.3	53.9	0	0	4.42	1.29	16.1	100.3	100.3	53.9	53.9	0.82	1.31	0.15	14.5



Stellar Parameters For KIC 007199037

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6003^{+179}_{-179}	$4.507^{+0.048}_{-0.204}$	$-0.140^{+0.300}_{-0.300}$	$0.932^{+0.279}_{-0.093}$	$1.019^{+0.133}_{-0.133}$	$1.772^{+0.365}_{-0.941}$
	+3%/-3%	+1%/-5%	+214%/-214%	+30%/-10%	+13%/-13%	+21%/-53%
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 007199037-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-61 ± 6	$24.21^{+25.57}_{-17.17}$	3197^{+491}_{-328}	-3142^{+288}_{-316}	$0.010^{+0.097}_{-0.007}$
Alt.	-1897 ± 35	$26.85^{+27.94}_{-17.80}$	3172^{+447}_{-309}	-2538^{+6913}_{-646}	$0.237^{+2.054}_{-0.178}$

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 $A_{\text{obs}} \gg 1.0$

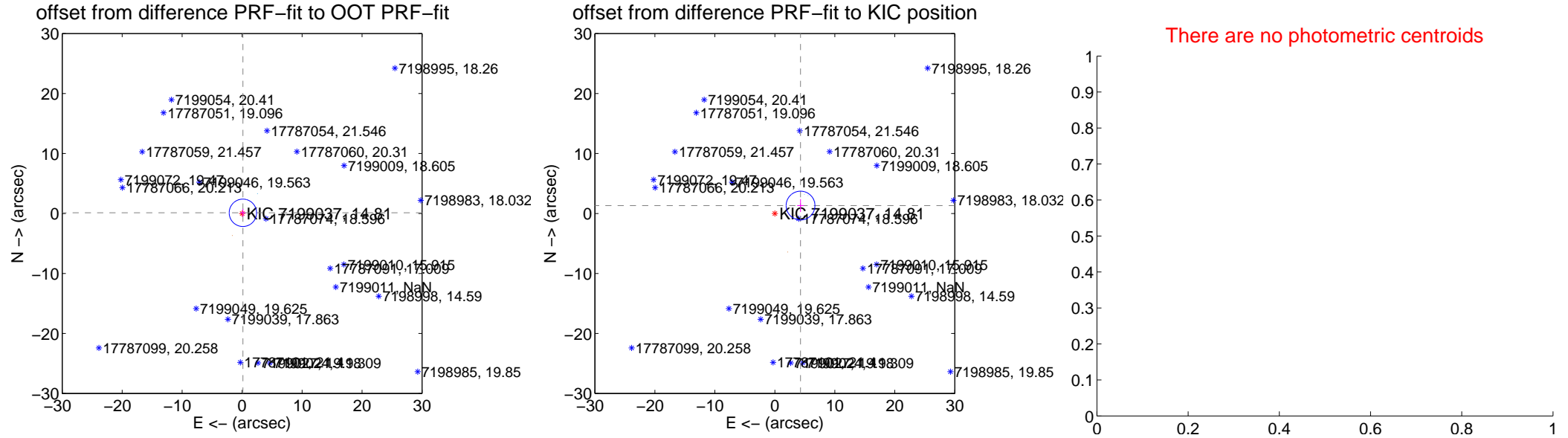
DV Centroid Data

Supplemental centroid analysis for 007199037-01. Kepler magnitude: 14.81. Transit SNR 0.01

There are 6 quarters with good PRF difference image offsets

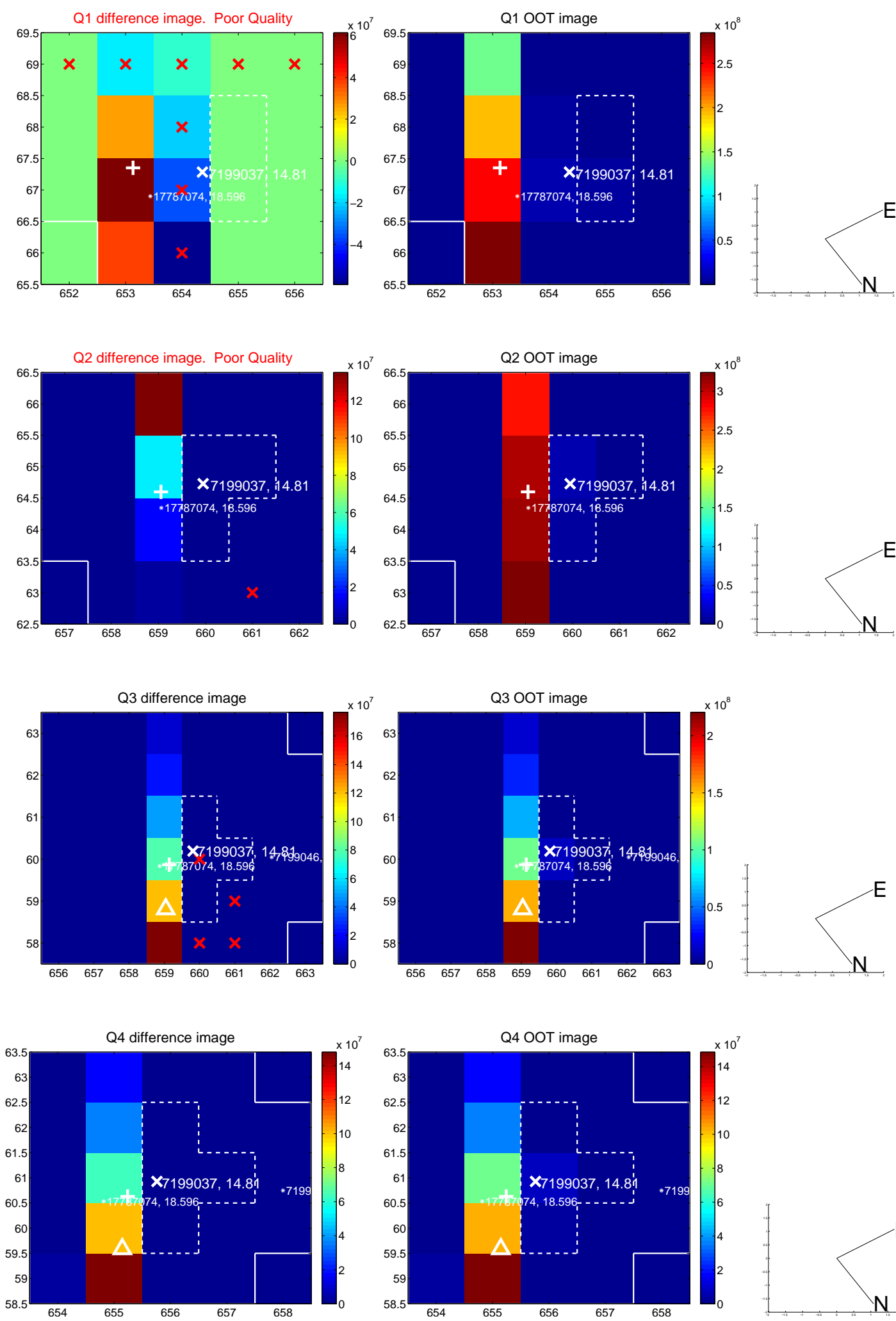
The OOT PRF centroid is offset from the target star catalog position by about 6.98 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.172 ± 0.761	0.23	-0.128 ± 0.445	0.115 ± 0.658
PRF-fit source offset from KIC position	4.482 ± 0.801	5.60	-4.283 ± 0.553	1.320 ± 1.073
photometric centroid source offset	—	—	—	—

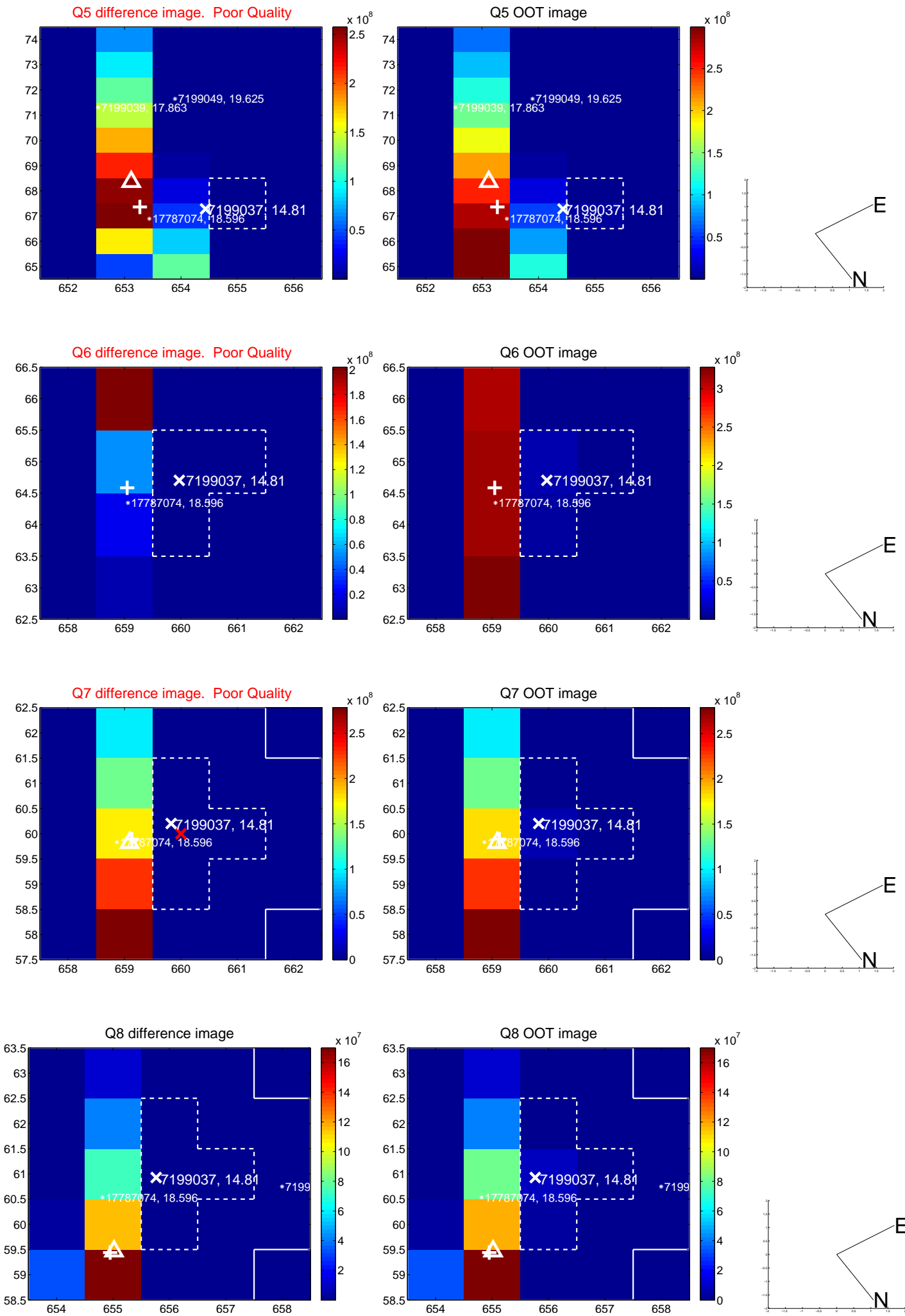


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

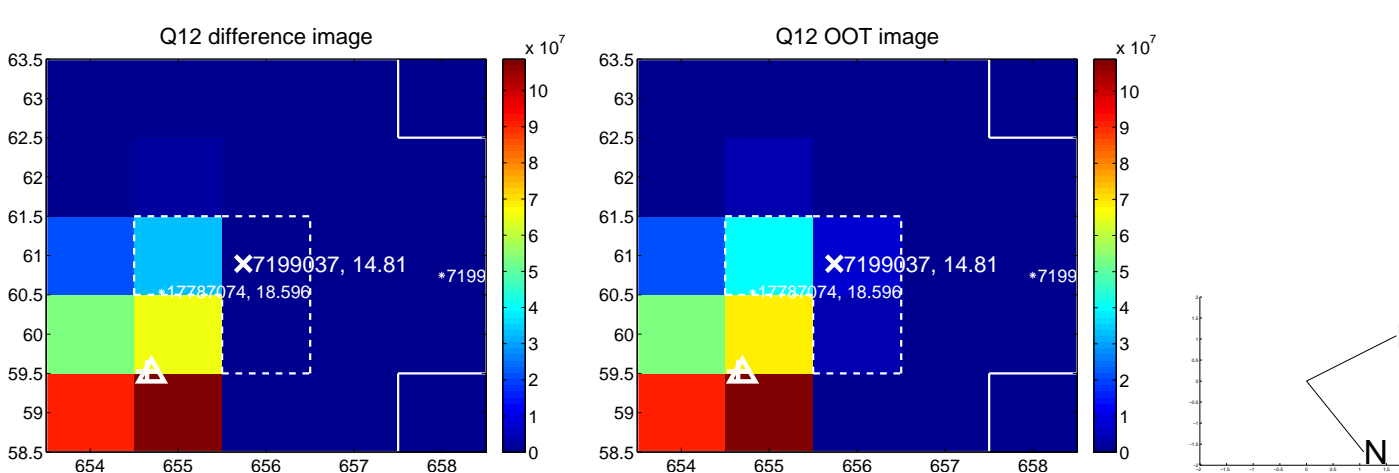
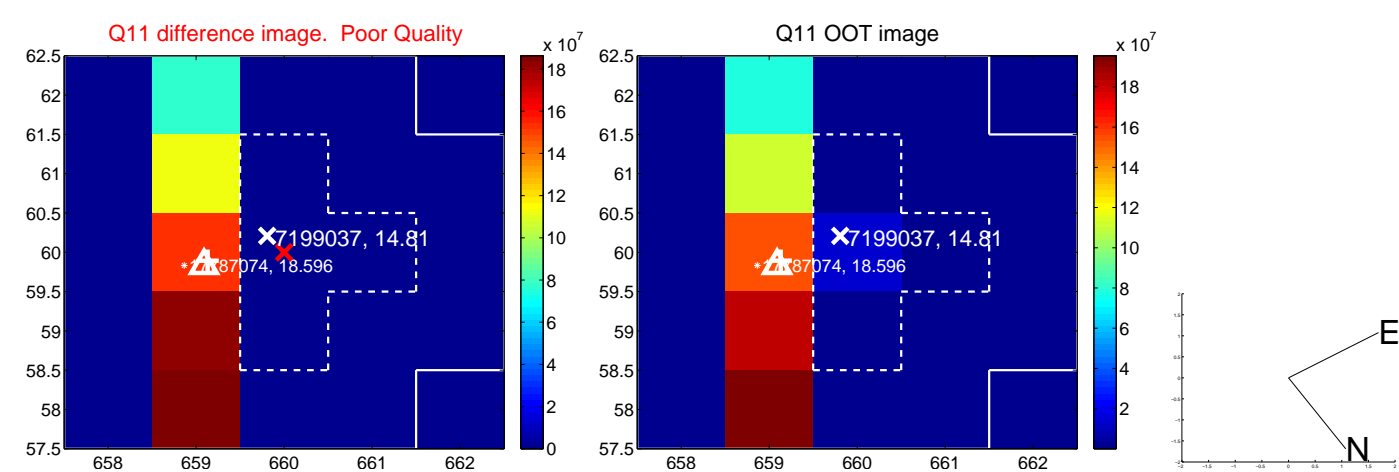
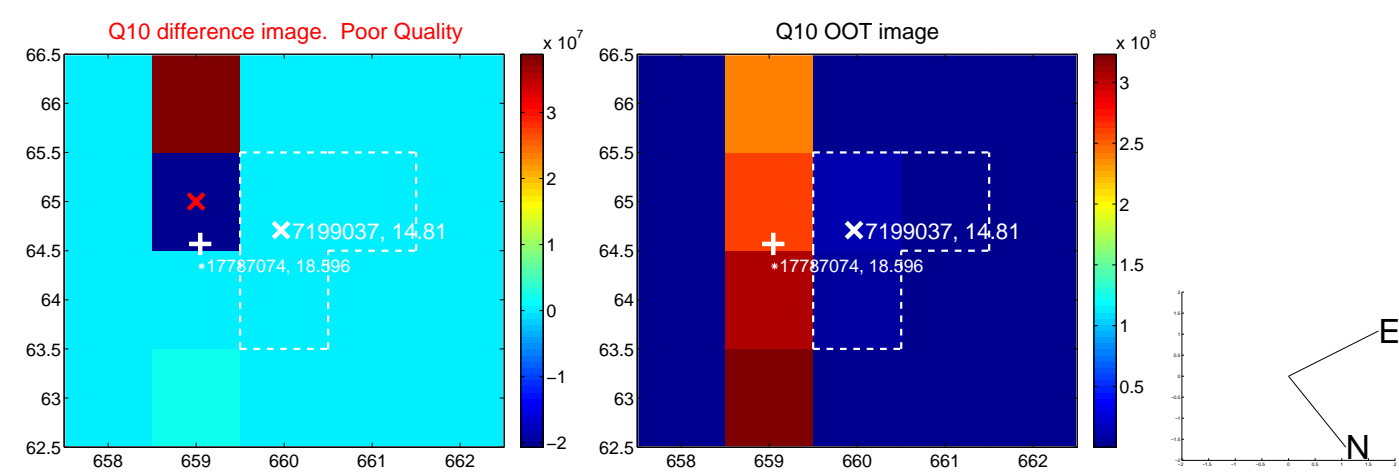
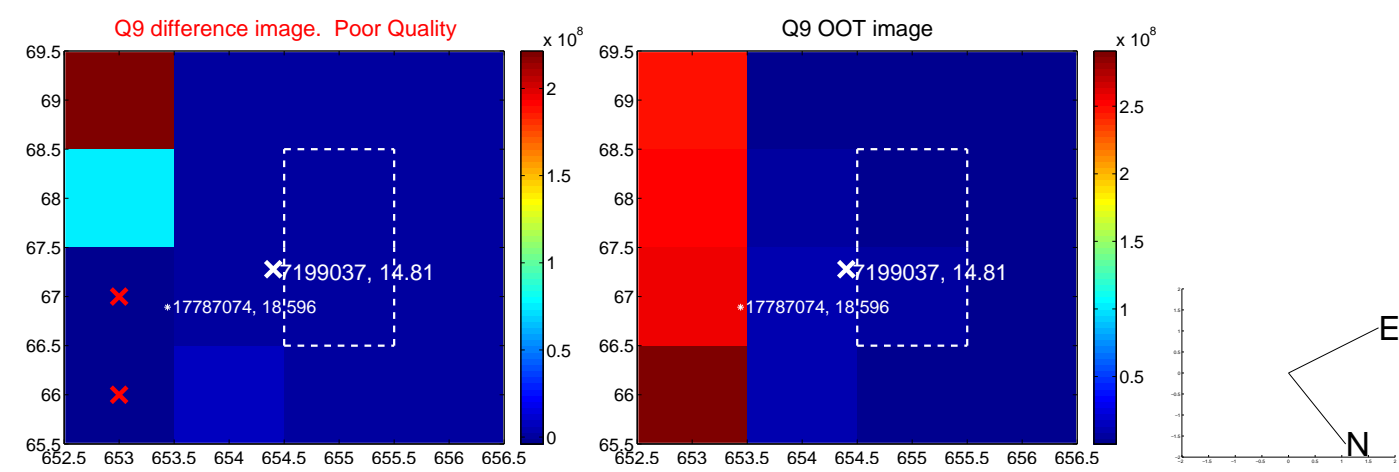
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



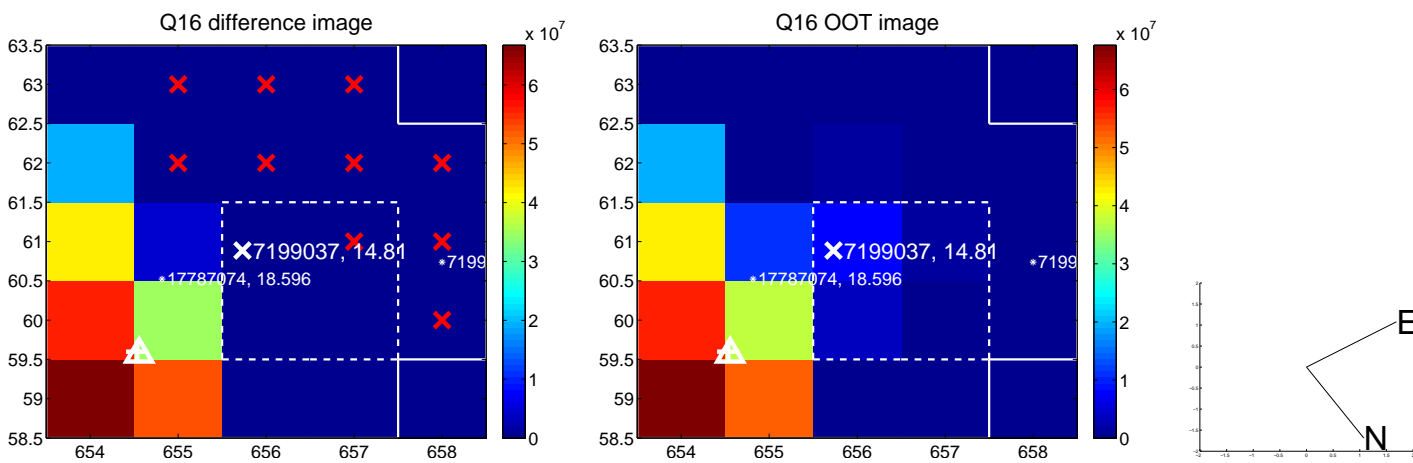
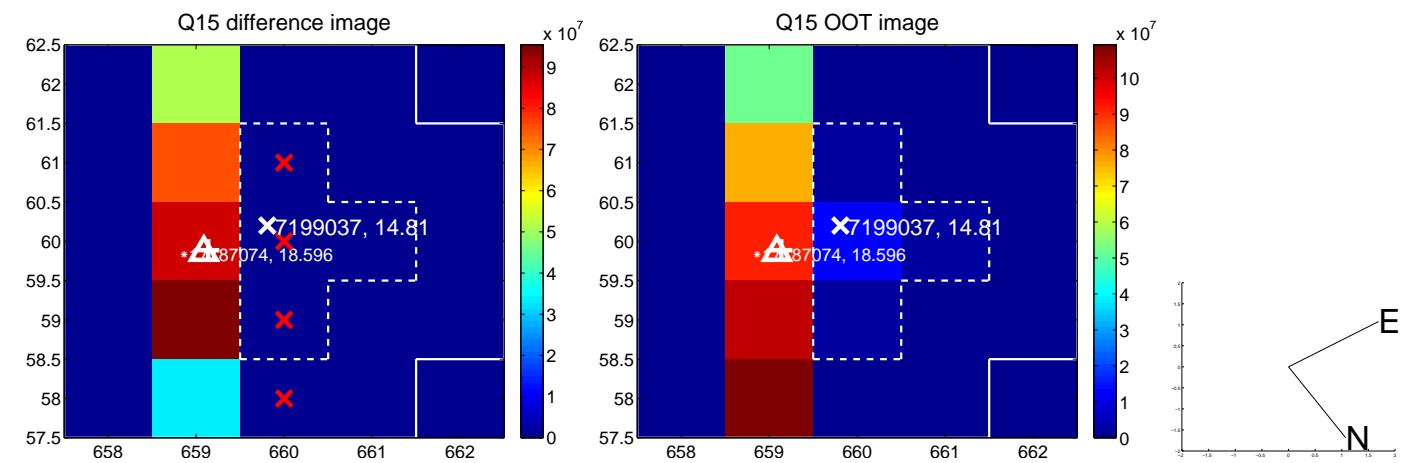
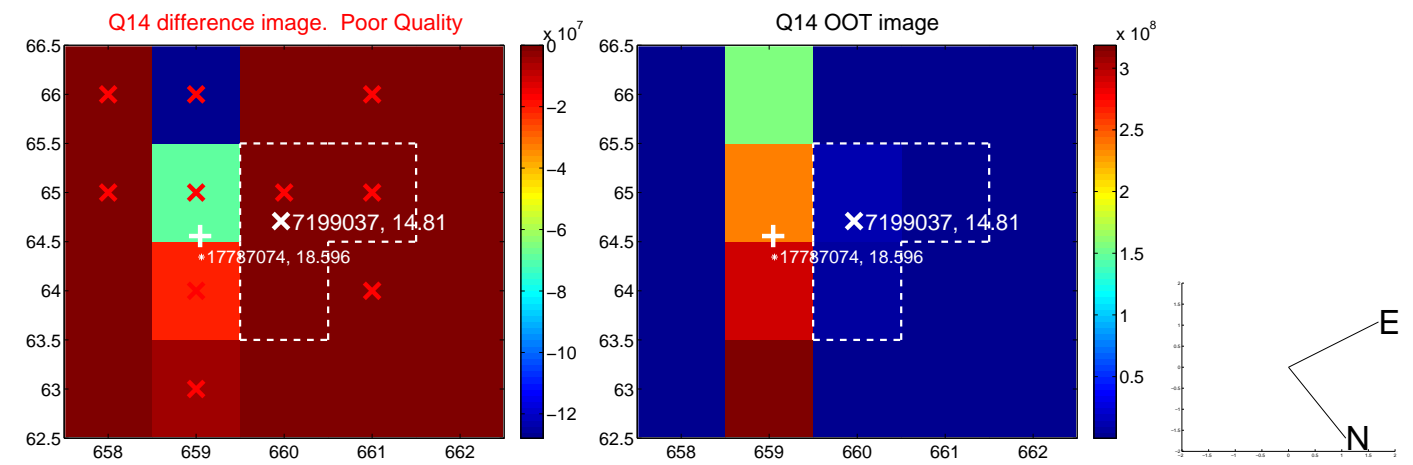
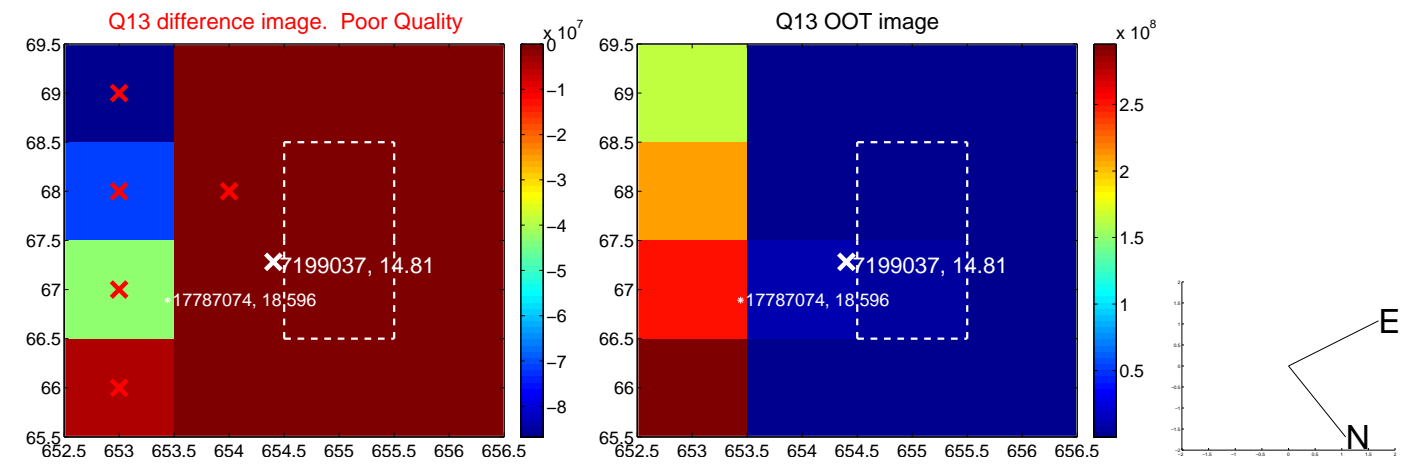
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



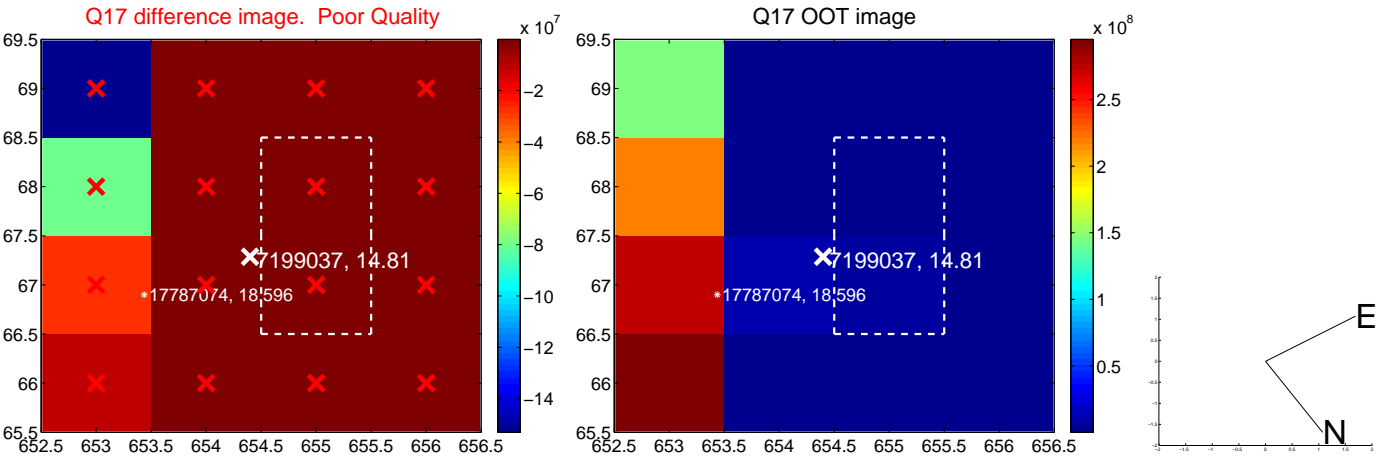
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

