

KIC 007199343

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})
007199343-01	OBS	No	0.566808	131.692444	1003.5	2.000	12.3	-1.0	1.00	6122	3.16	6638.34

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007199343-01	OBS	FP	0.00	1	0	1	1	LPP_DV—LPP_ALT—CENT_NOFITS—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.

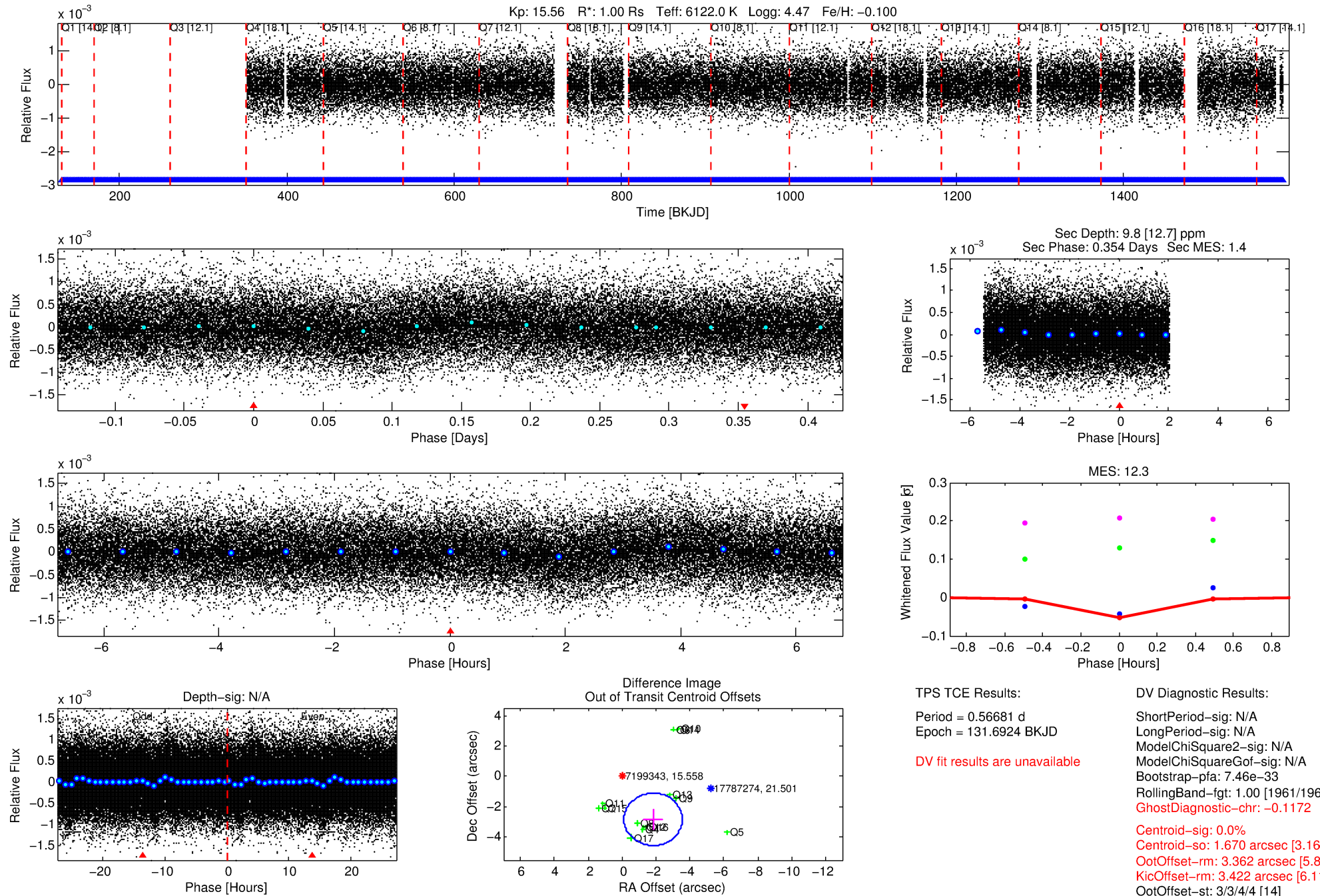
Ephemeris Match Information For 007199343-01

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
007199343-01	7199343	RR-Lyr-pri	7198959	1:1	369.4	85	37	7.86	15.56	620.81	Direct-PRF	0	4.07	13.65

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

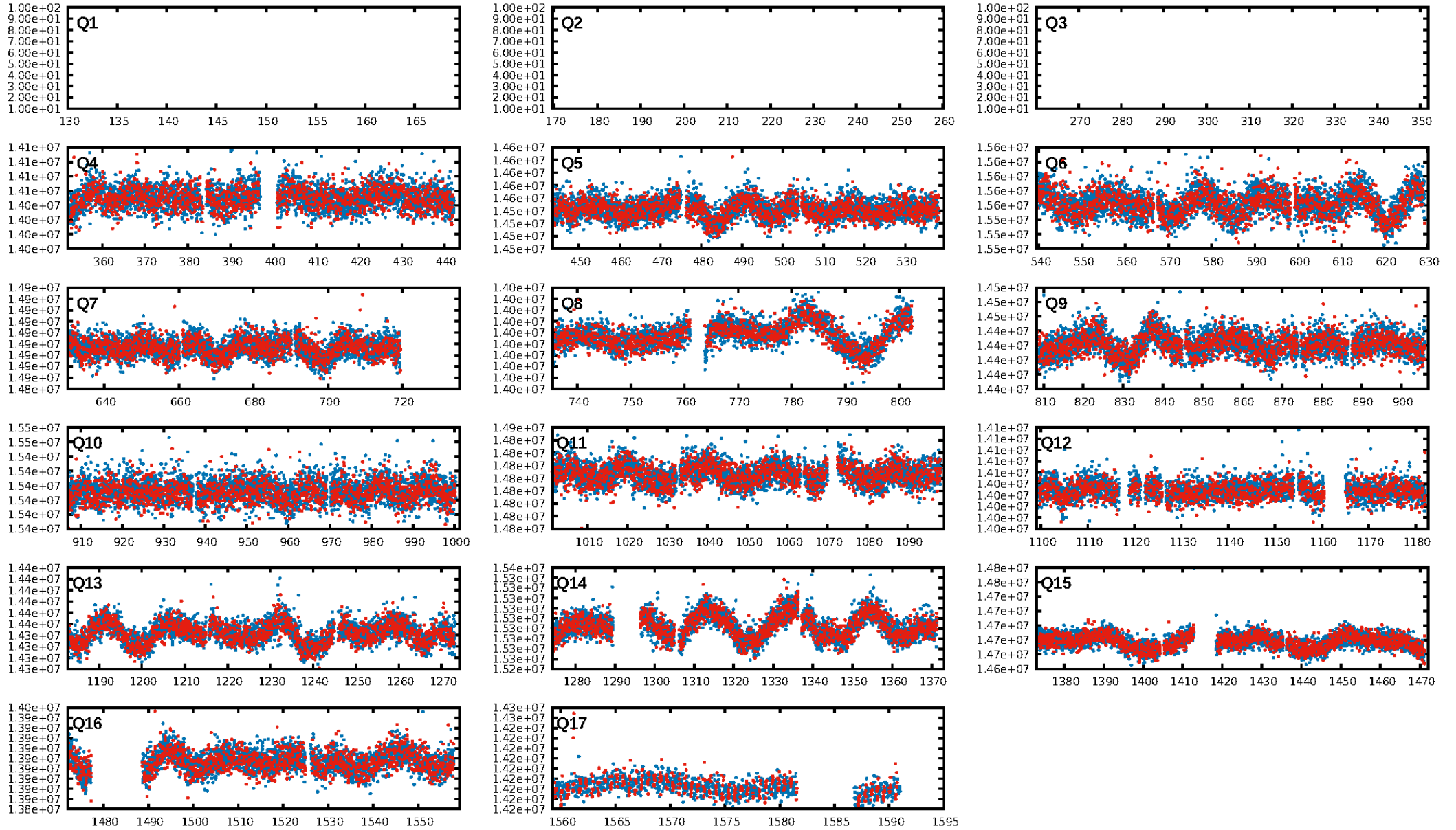
KIC: 7199343 Candidate: 1 of 1 Period: 0.567 d



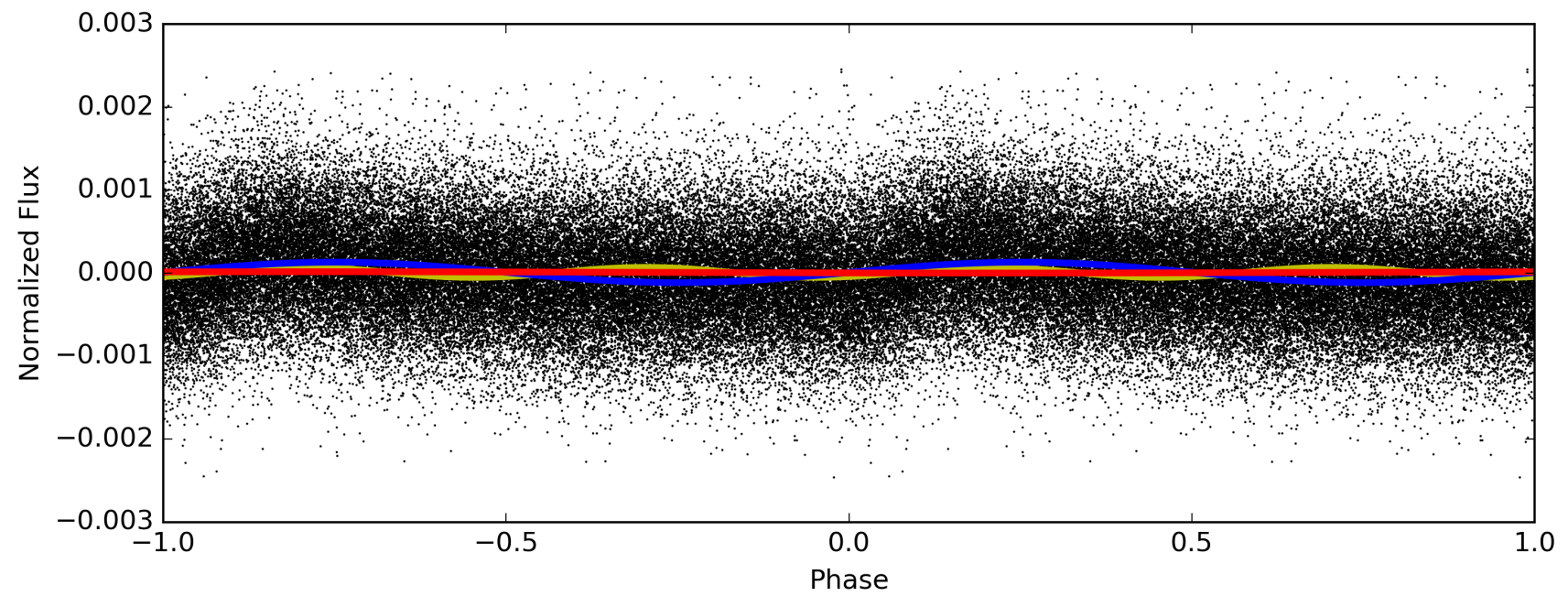
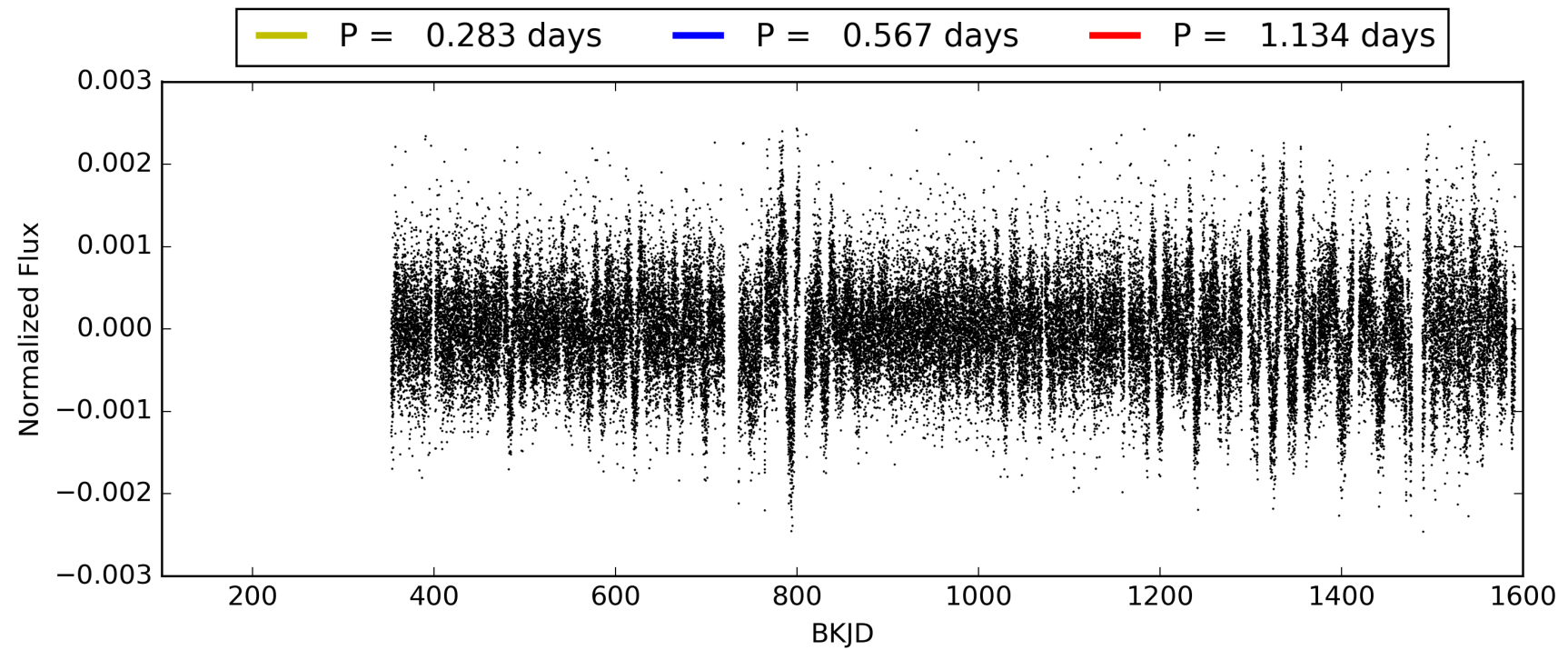
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 07:36:20 Z

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

TCE 007199343-01, PDC Light Curves

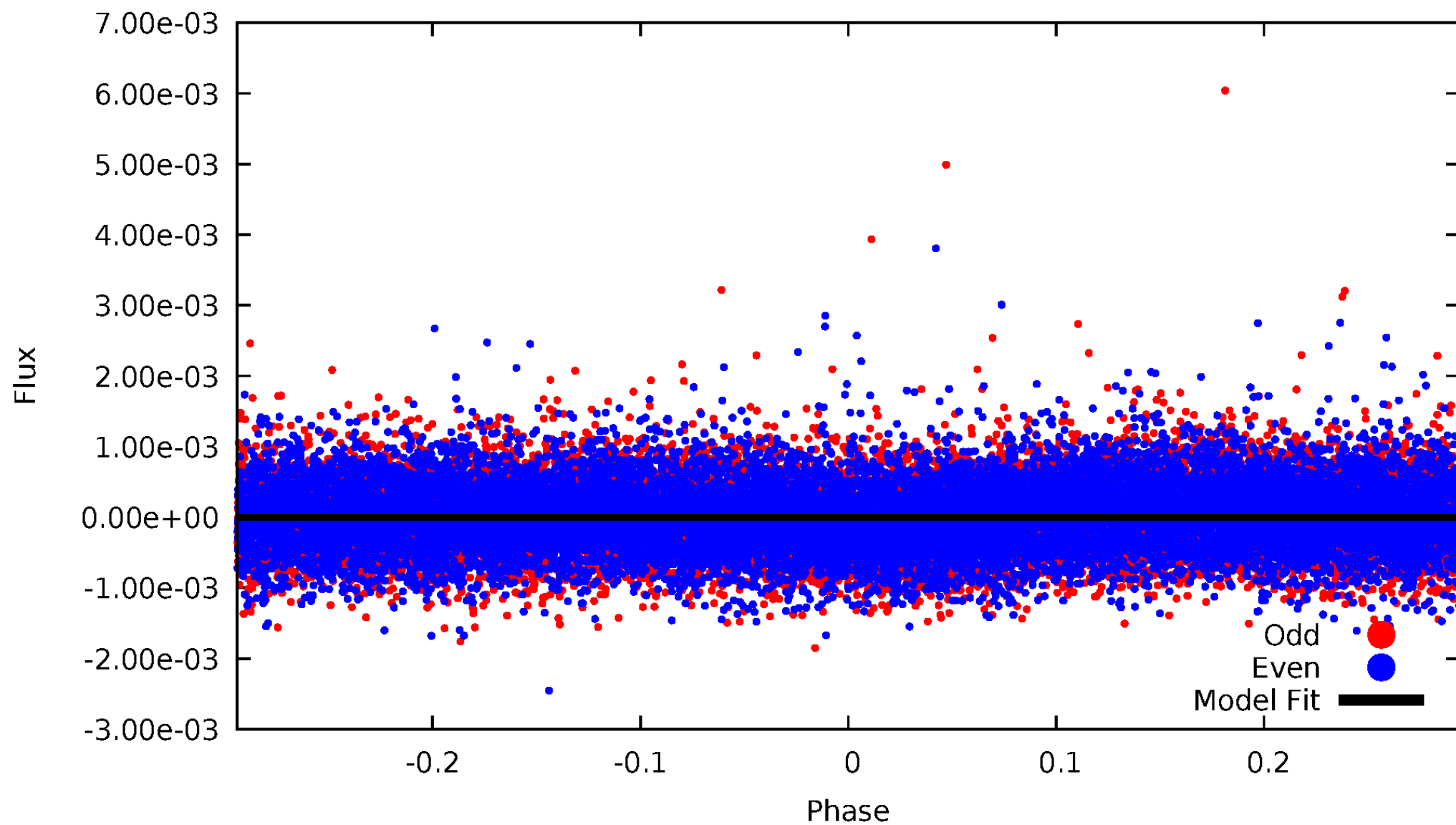


TCE 007199343-01



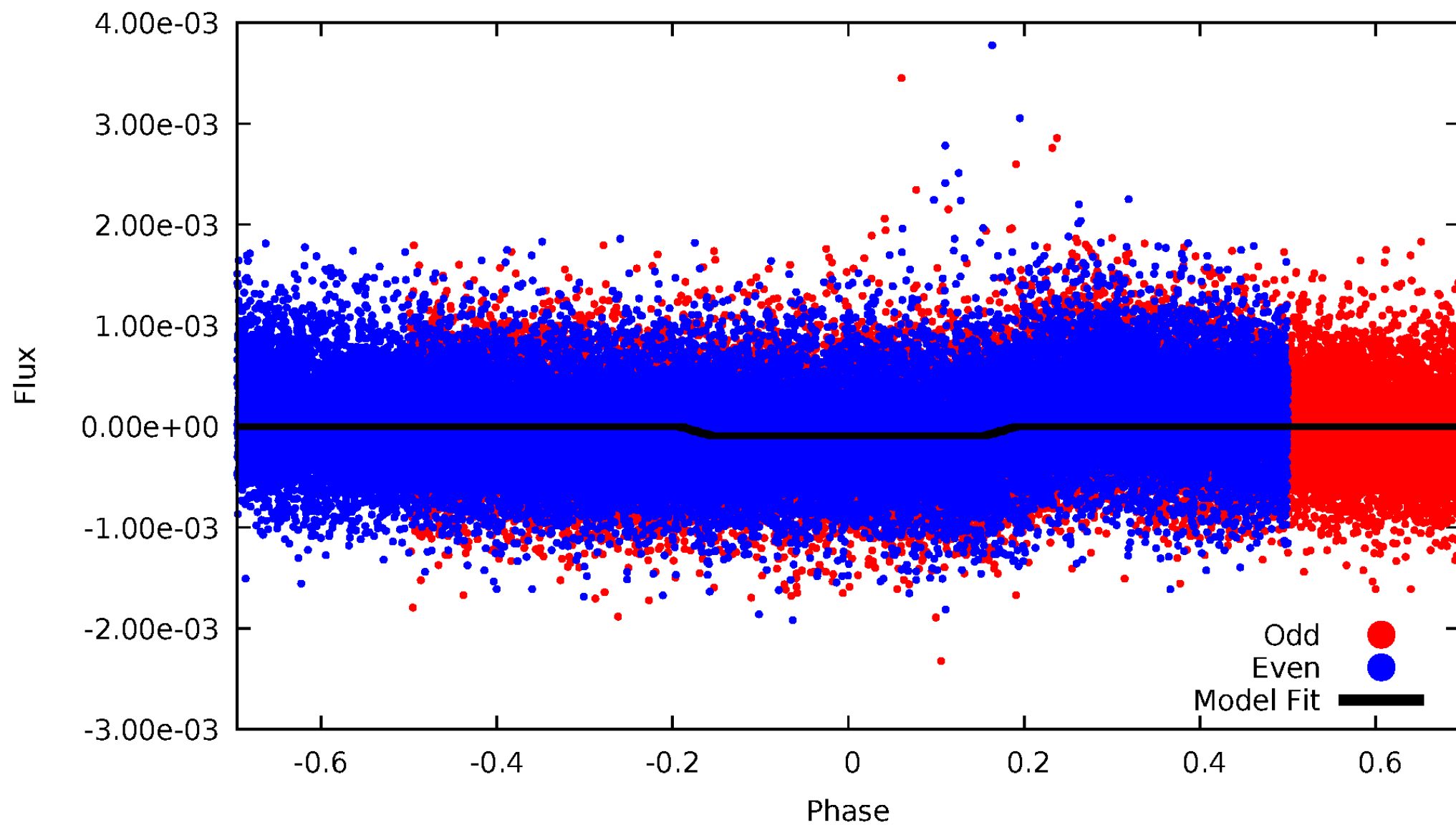
DV Odd/Even

TCE 007199343-01



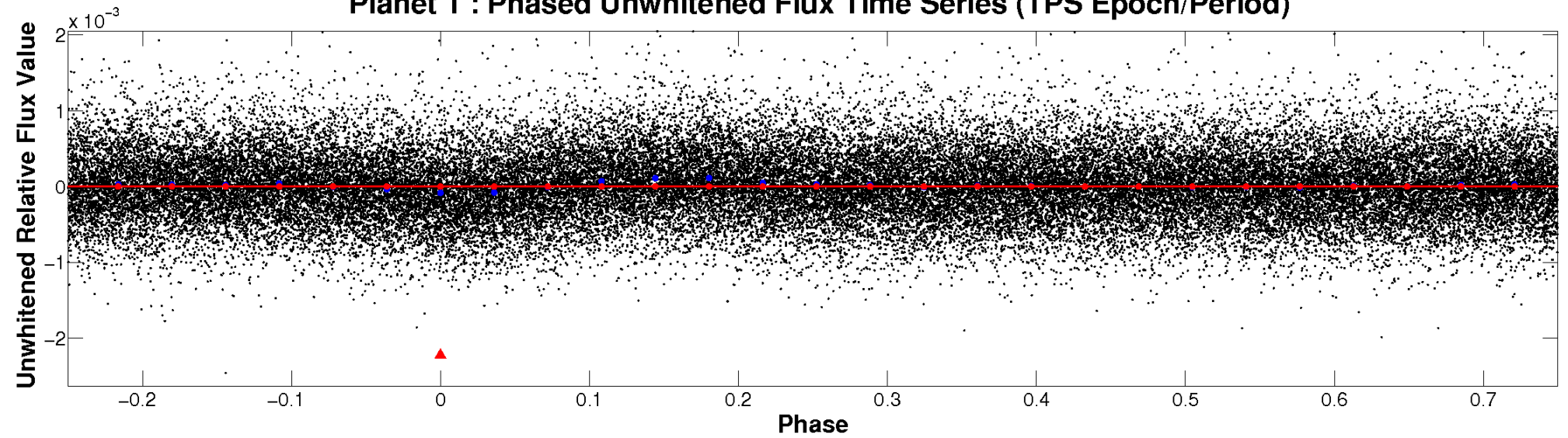
ALT Odd/Even

TCE 007199343-01

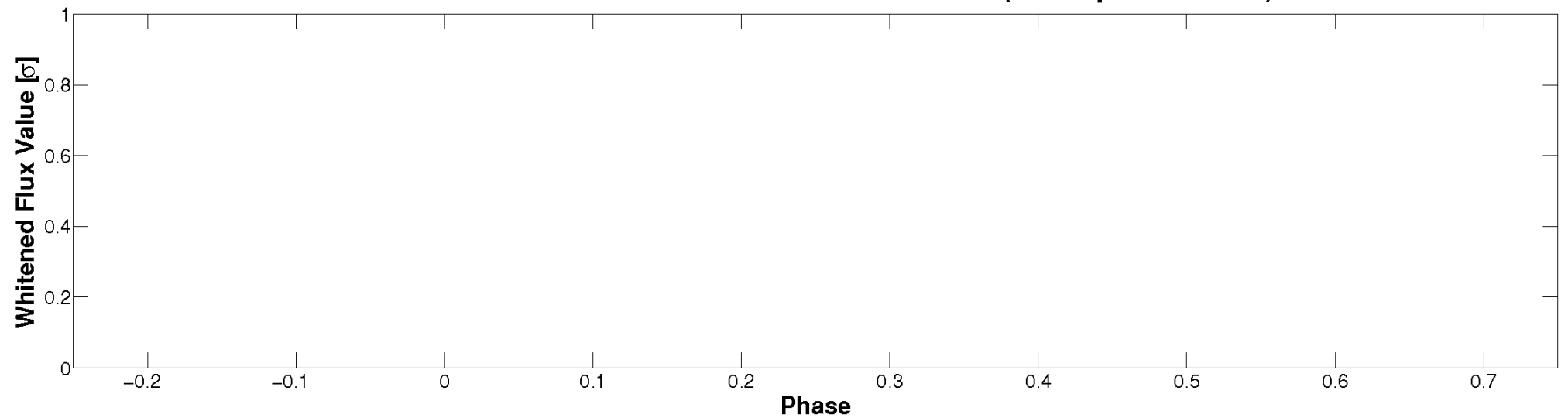


Non-Whitened Vs. Whitened Light Curve

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

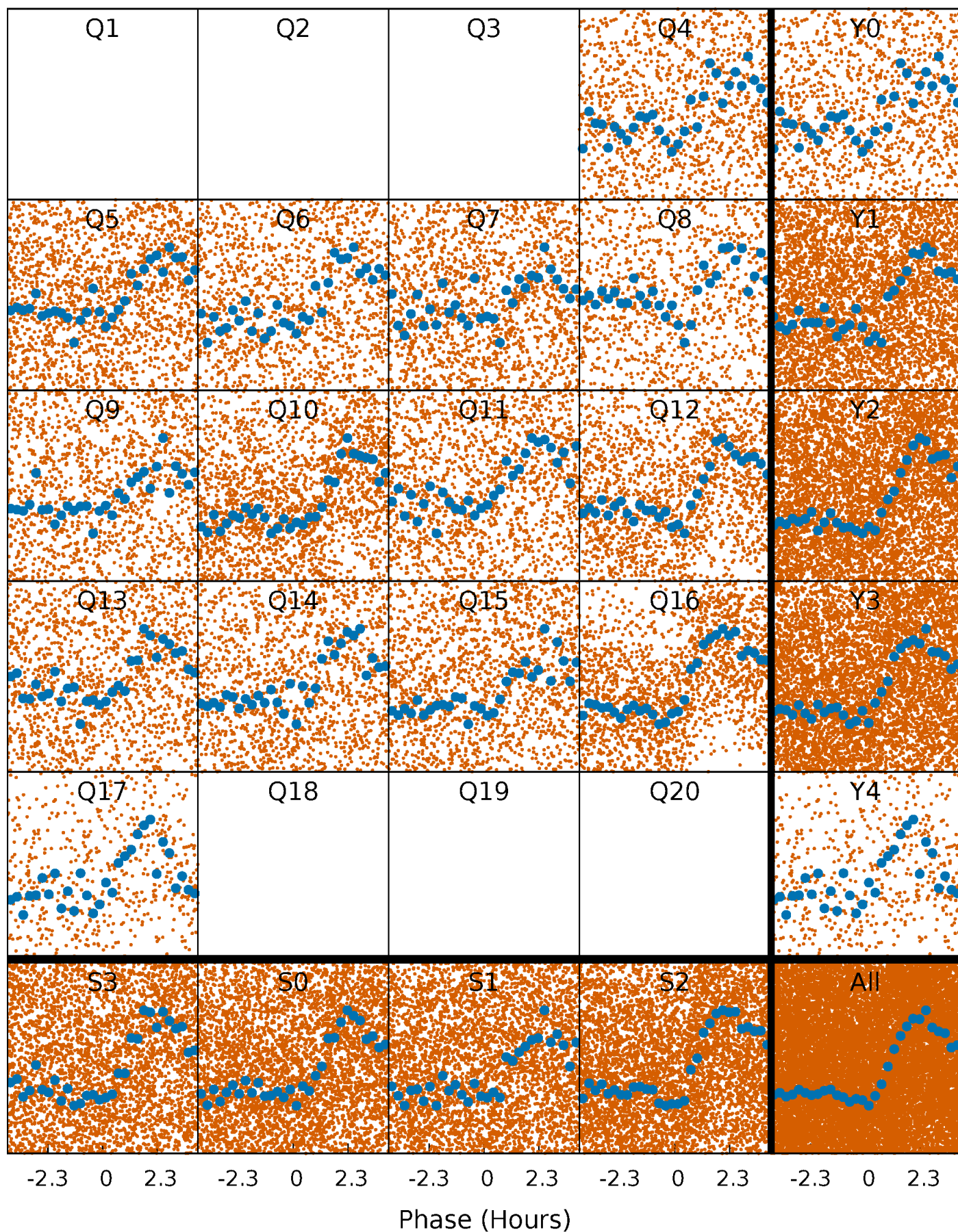


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



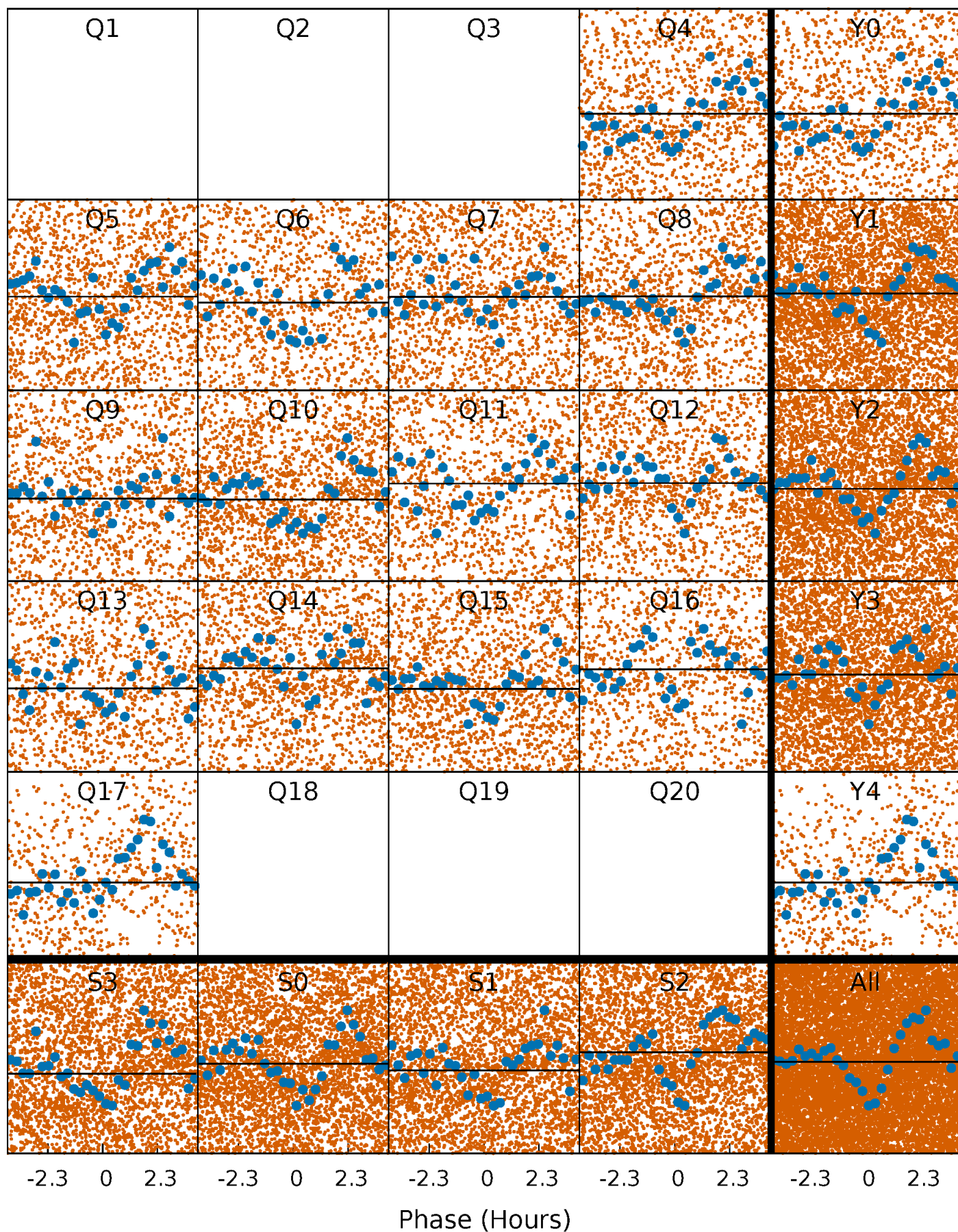
PDC Quarter-Phased Transit Curves

TCE 007199343-01 P= 0.566808 Days $T_0=131.692444$ (BKJD)



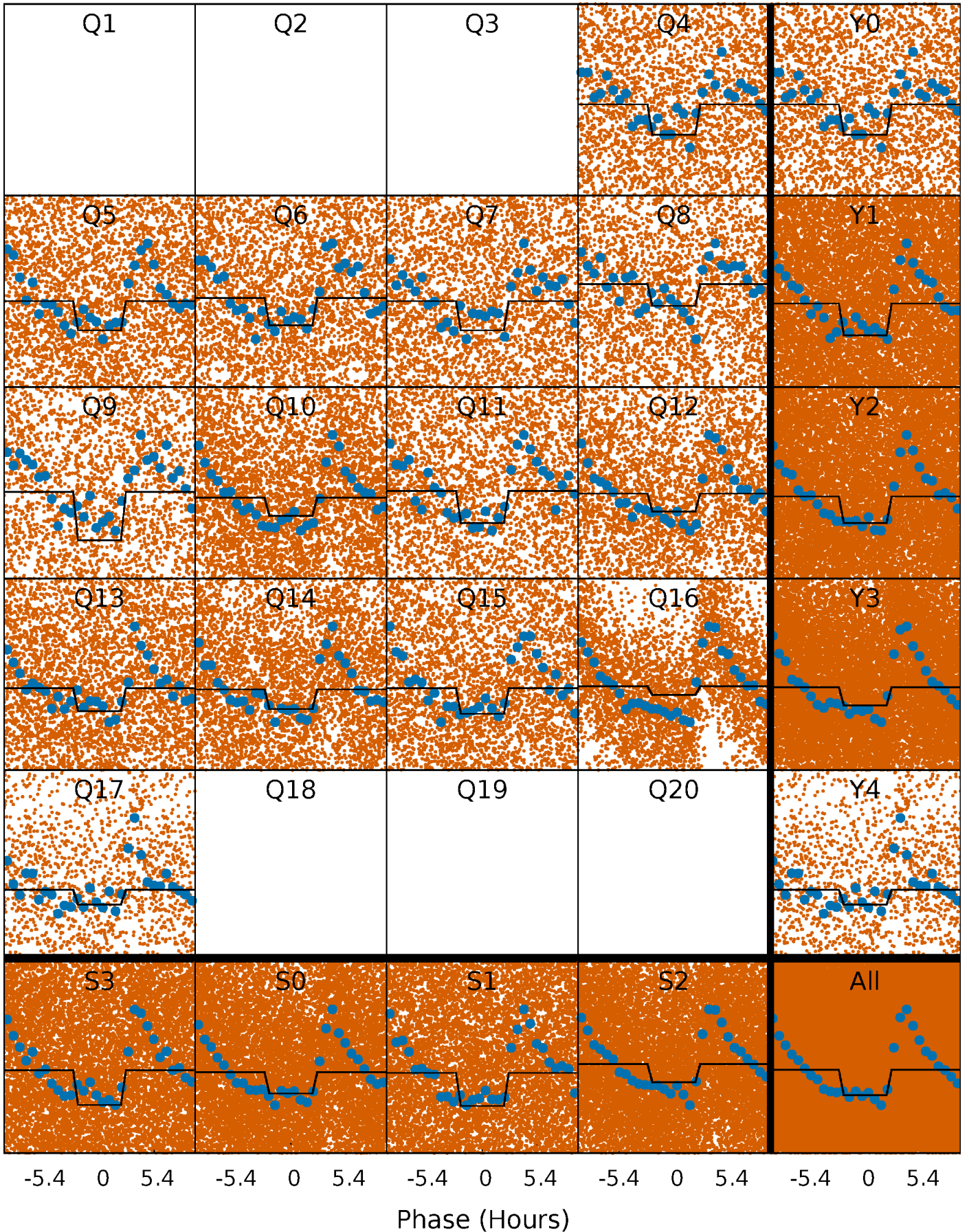
DV Quarter-Phased Transit Curves

TCE 007199343-01 P= 0.566808 Days $T_0=131.692444$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

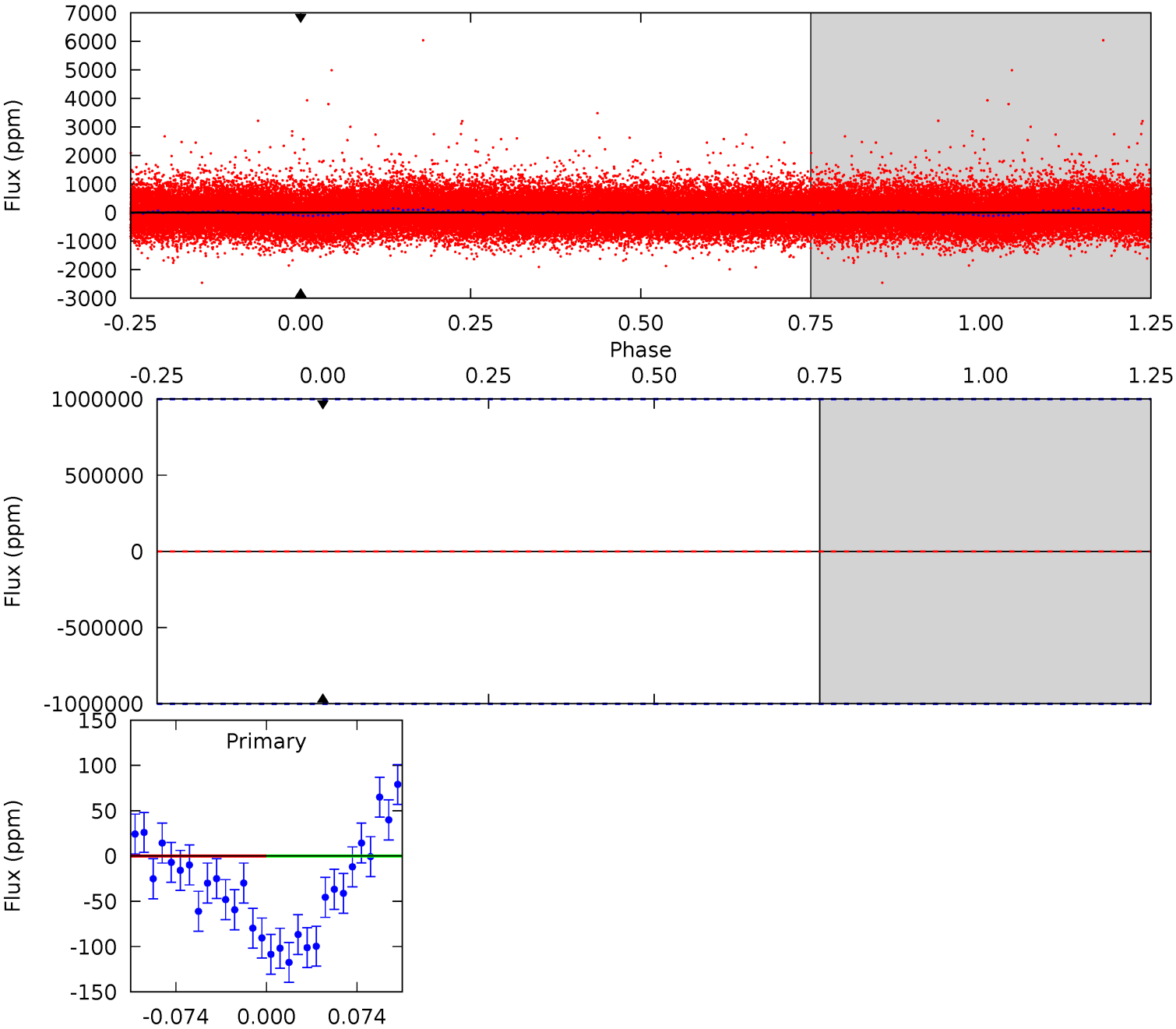
TCE 007199343-01 P= 0.566808 Days $T_0=131.623545$ (BKJD)



DV Model-Shift Uniqueness Test

007199343-01, P = 0.566808 Days, E = 131.692444 Days

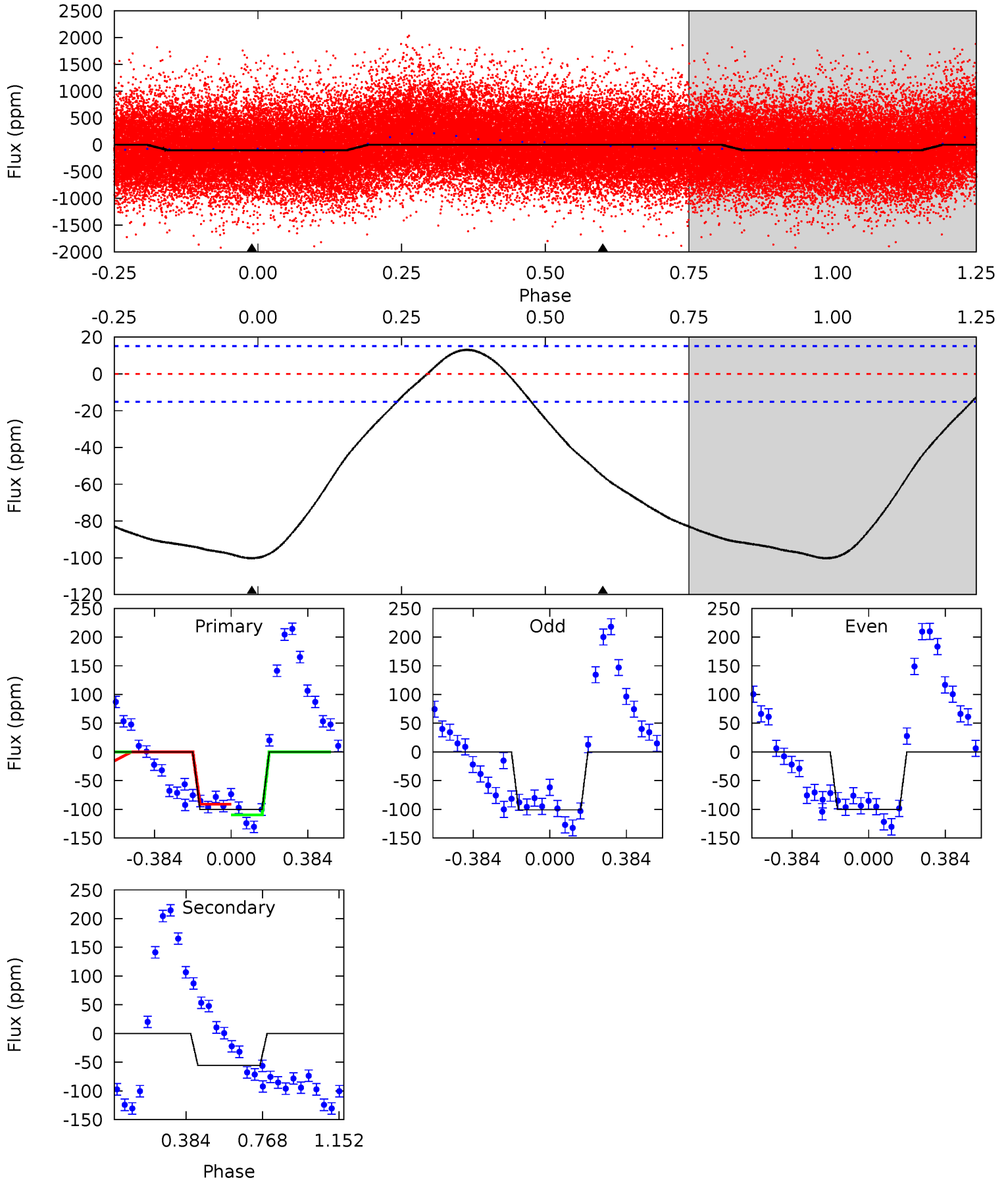
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007199343-01, P = 0.566808 Days, E = 131.623545 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.3	15.7	0	0	4.27	0.87	2.20	28.3	28.3	15.7	15.7	0.09	1.05	0.12	2.82



Stellar Parameters For KIC 007199343

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6122^{+192}_{-256}	$4.471^{+0.054}_{-0.202}$	$-0.100^{+0.250}_{-0.350}$	$0.996^{+0.312}_{-0.104}$	$1.070^{+0.137}_{-0.150}$	$1.526^{+0.434}_{-0.810}$
	+3%/-4%	+1%/-5%	+250%/-350%	+31%/-10%	+13%/-14%	+28%/-53%
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 007199343-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$9.02^{+9.05}_{-6.22}$	3266^{+217}_{-163}	-4020^{+26708}_{-15077}	$-0.777^{+229.720}_{-155.632}$
Alt.	-55 ± 4	$8.09^{+8.81}_{-5.69}$	3269^{+231}_{-177}	-3049^{+6770}_{-209}	$0.085^{+0.913}_{-0.065}$

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 $A_{obs} \gg 1.0$

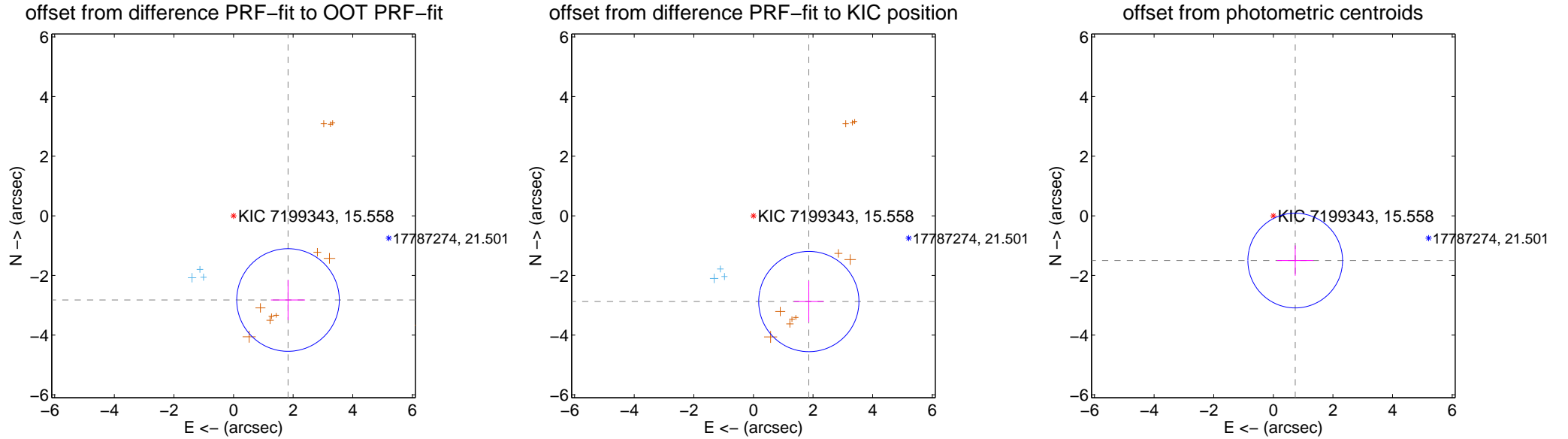
DV Centroid Data

Supplemental centroid analysis for 007199343-01. Kepler magnitude: 15.56. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

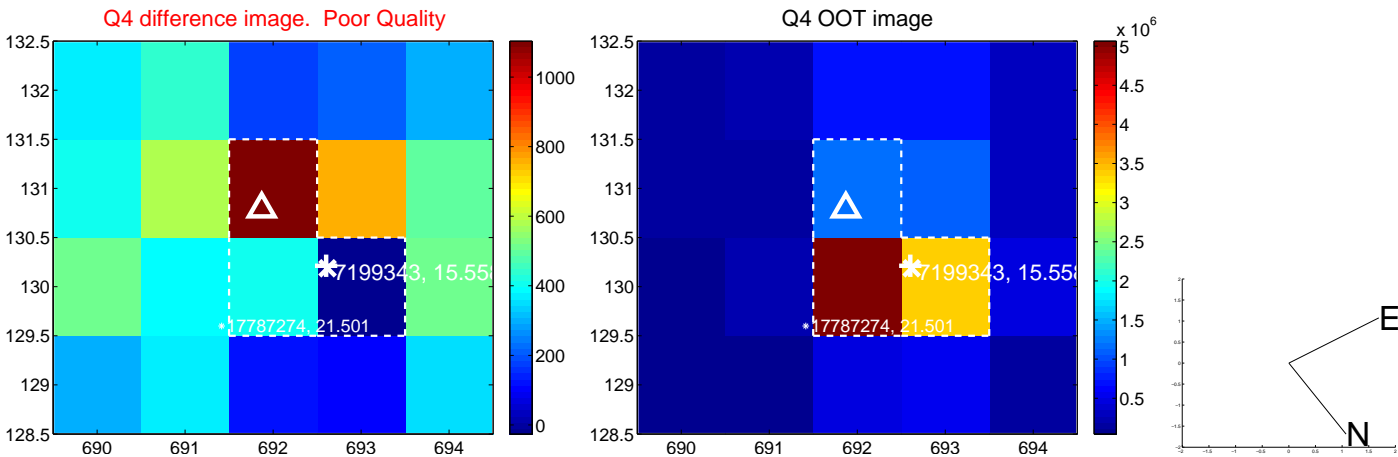
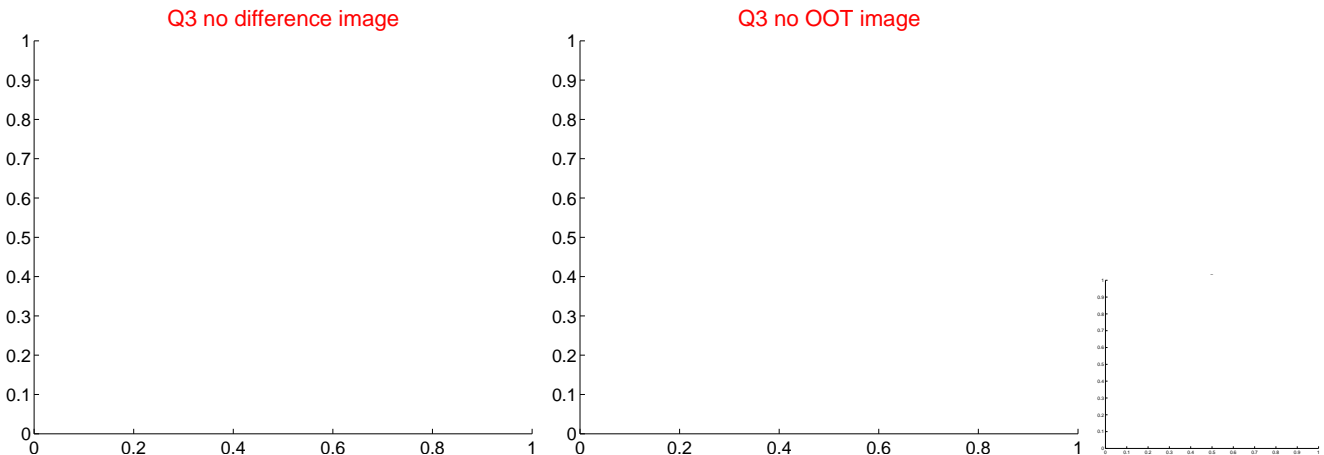
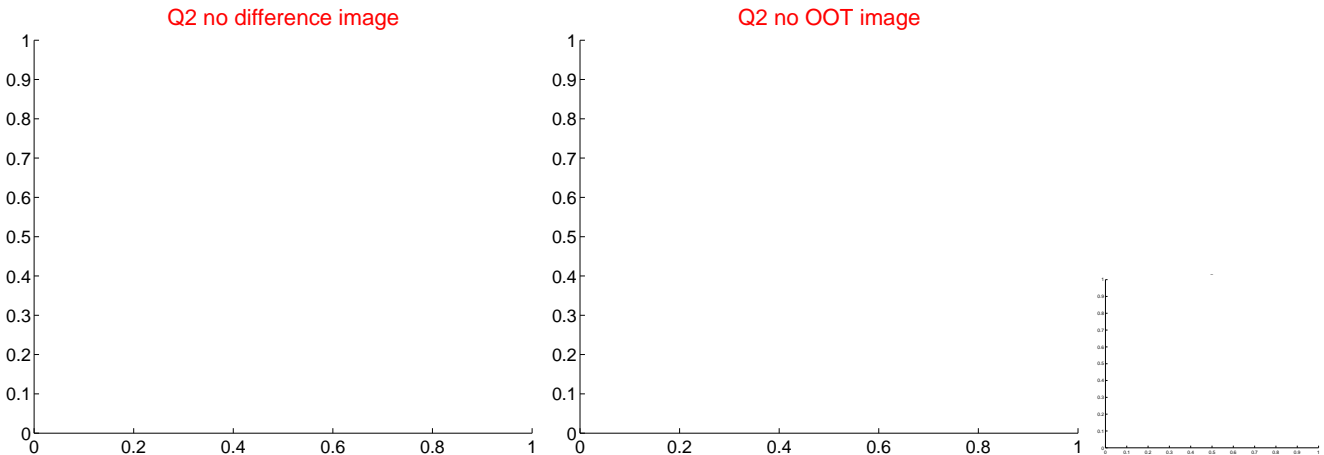
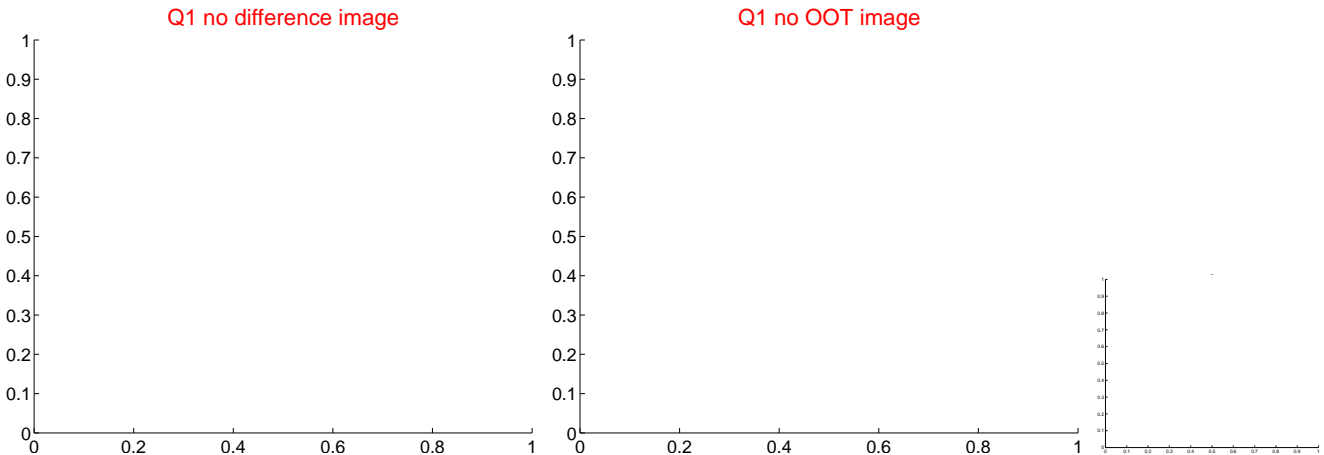
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.362 ± 0.573	5.86	-1.827 ± 0.572	-2.822 ± 0.673
PRF-fit source offset from KIC position	3.422 ± 0.560	6.11	-1.858 ± 0.500	-2.874 ± 0.685
photometric centroid source offset	1.67 ± 0.53	3.16	-0.73 ± 0.61	-1.50 ± 0.51

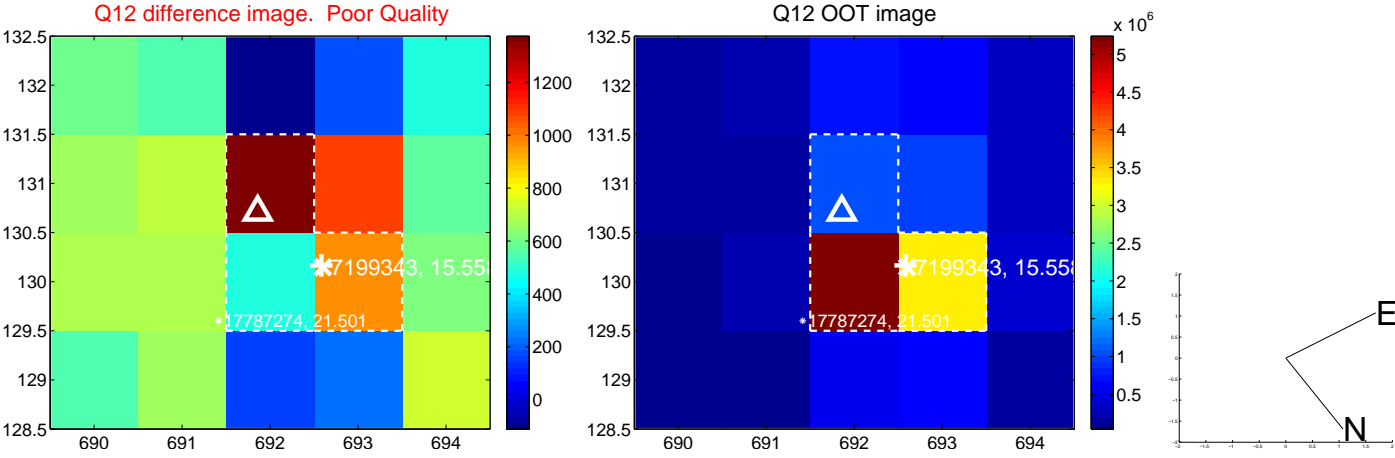
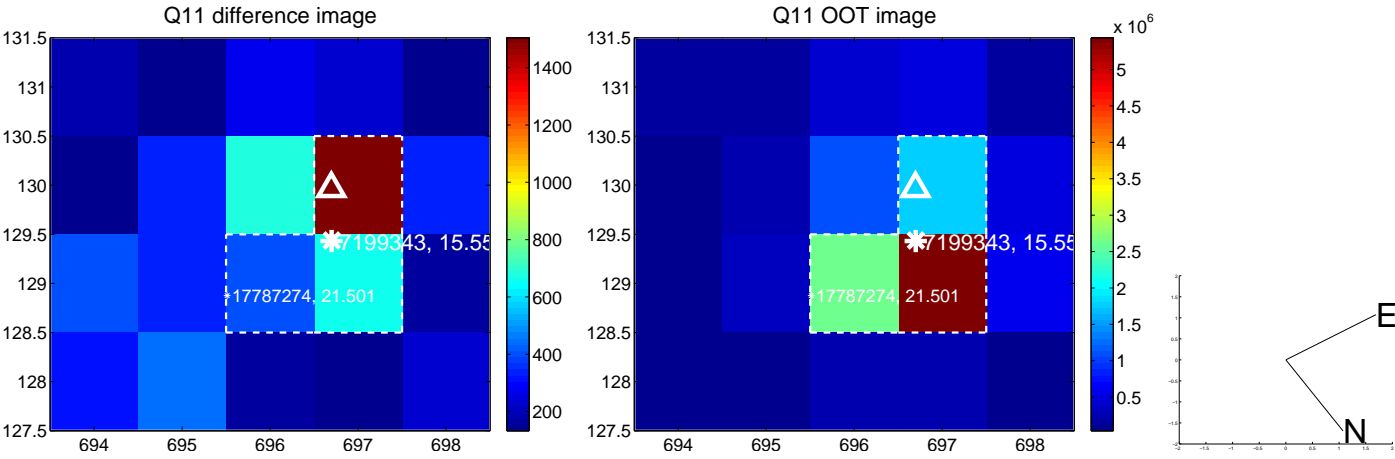
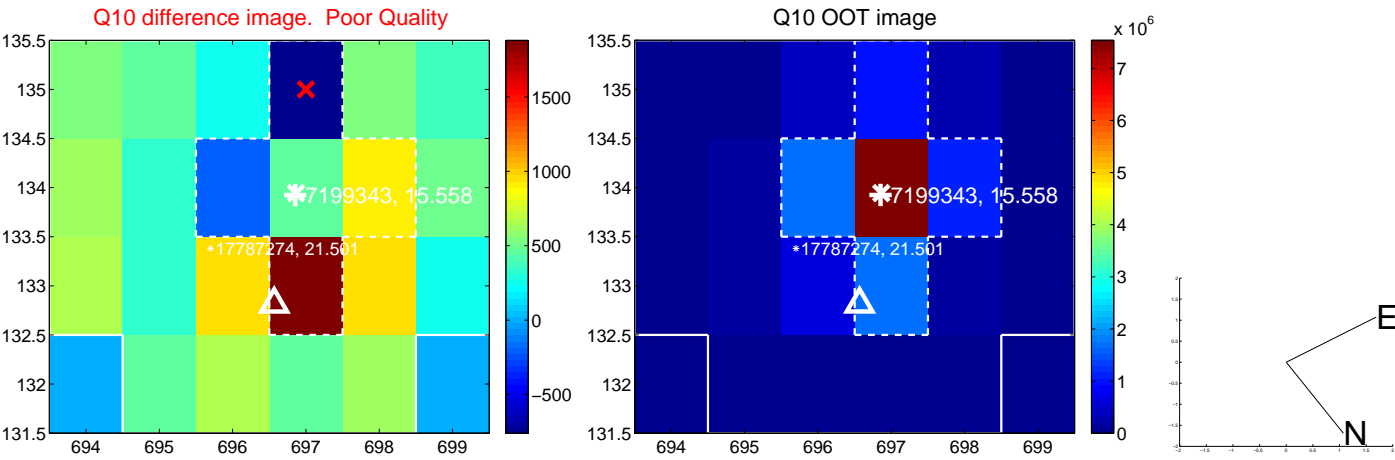
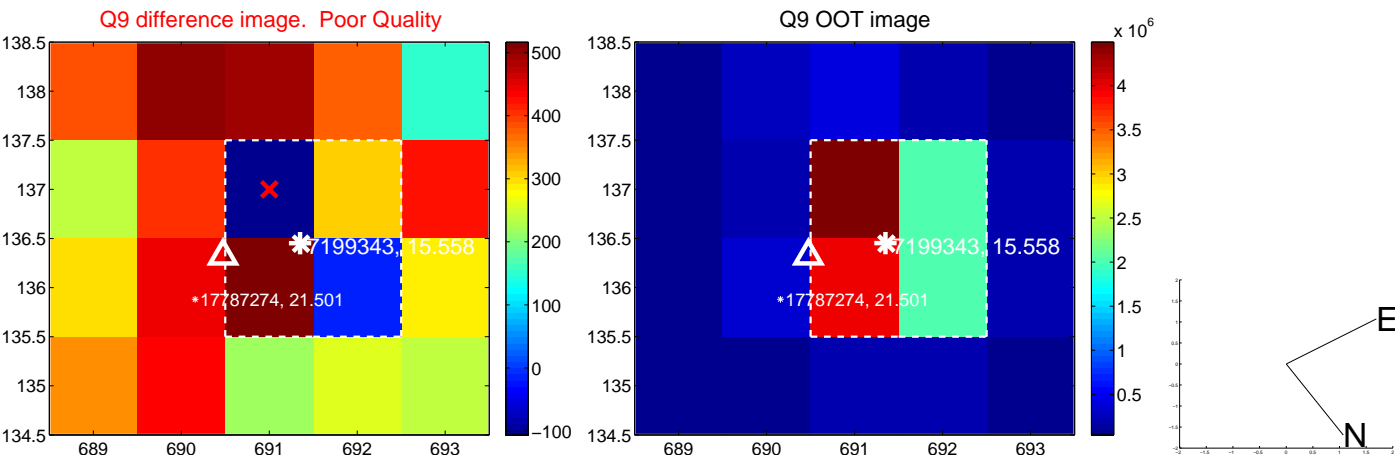


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

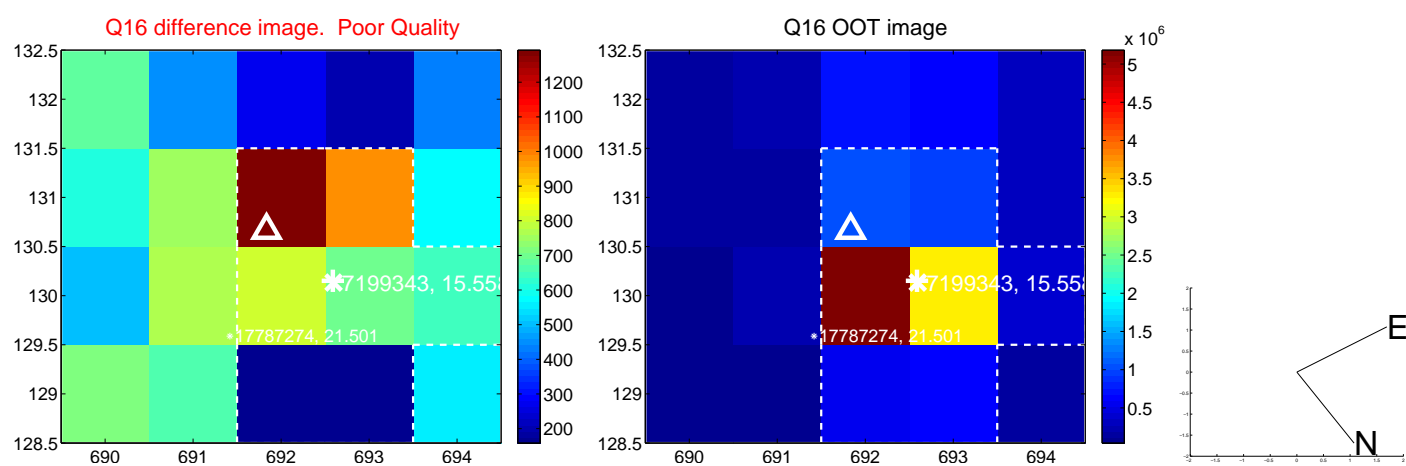
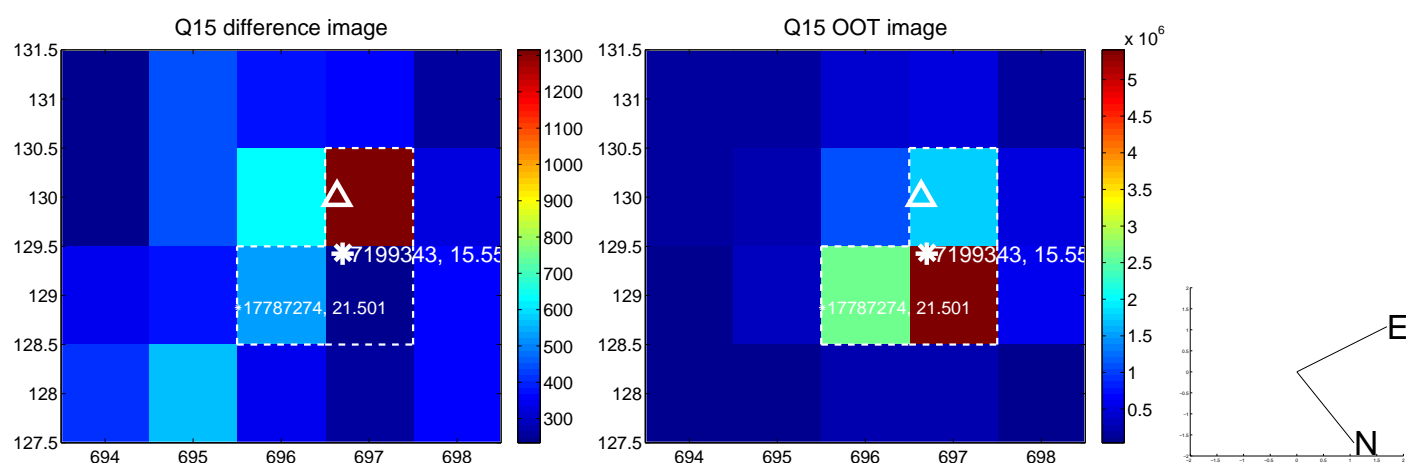
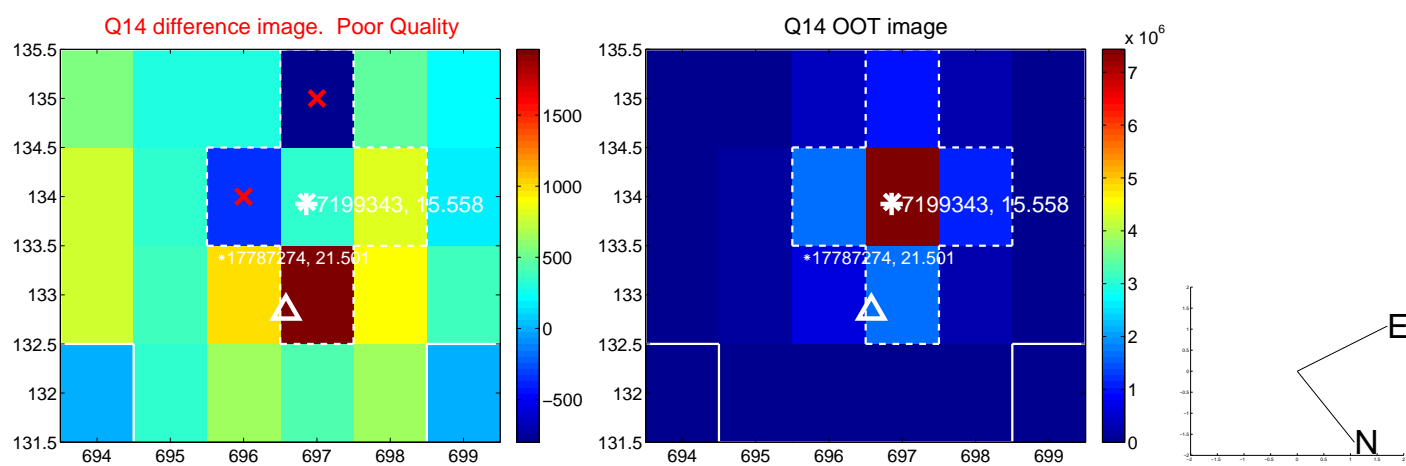
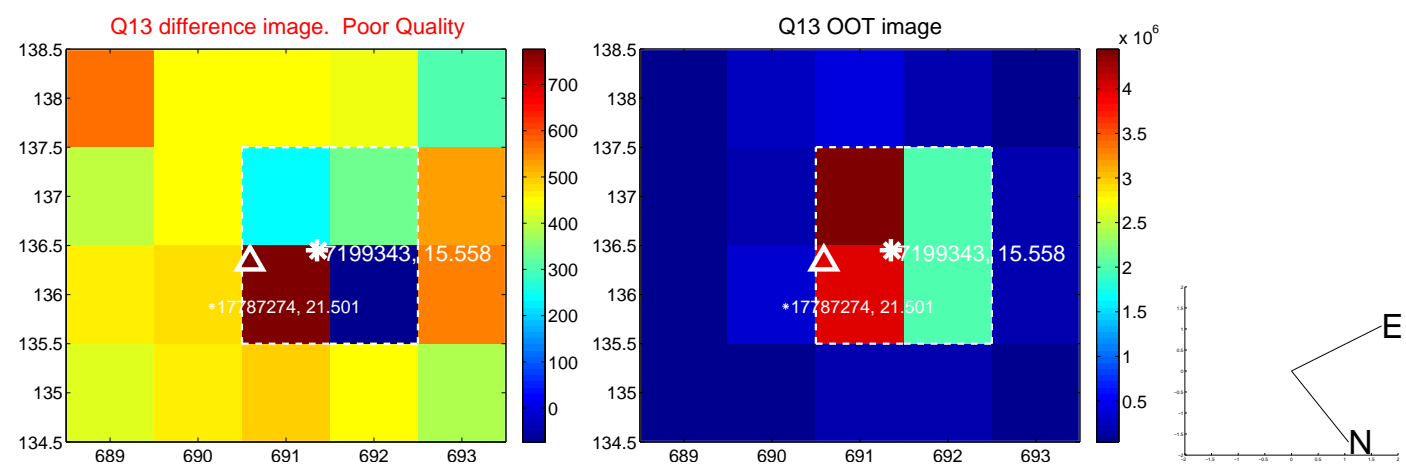
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



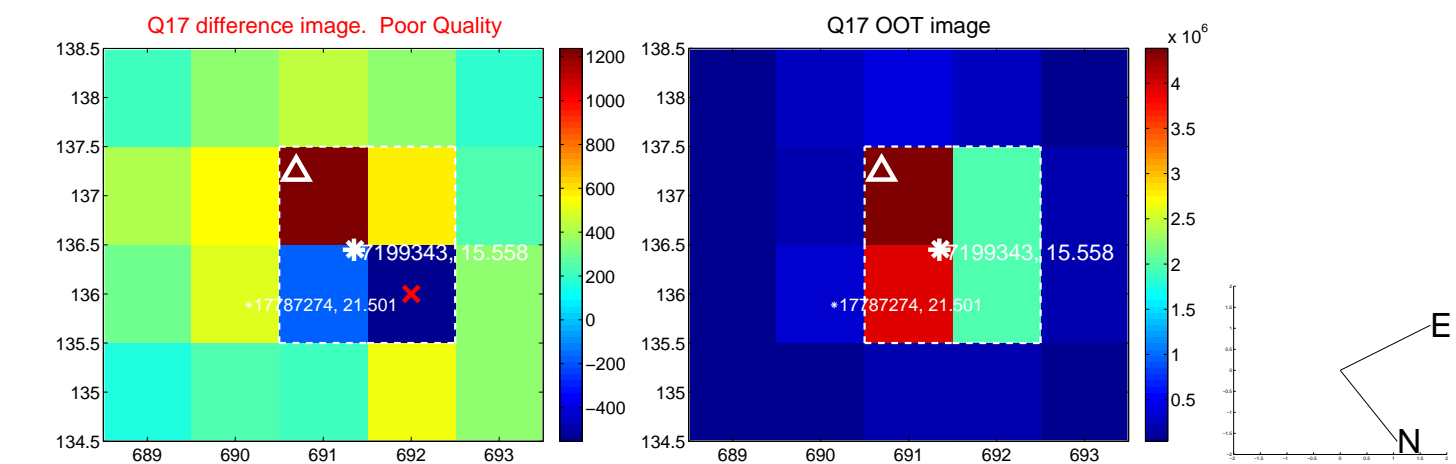
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



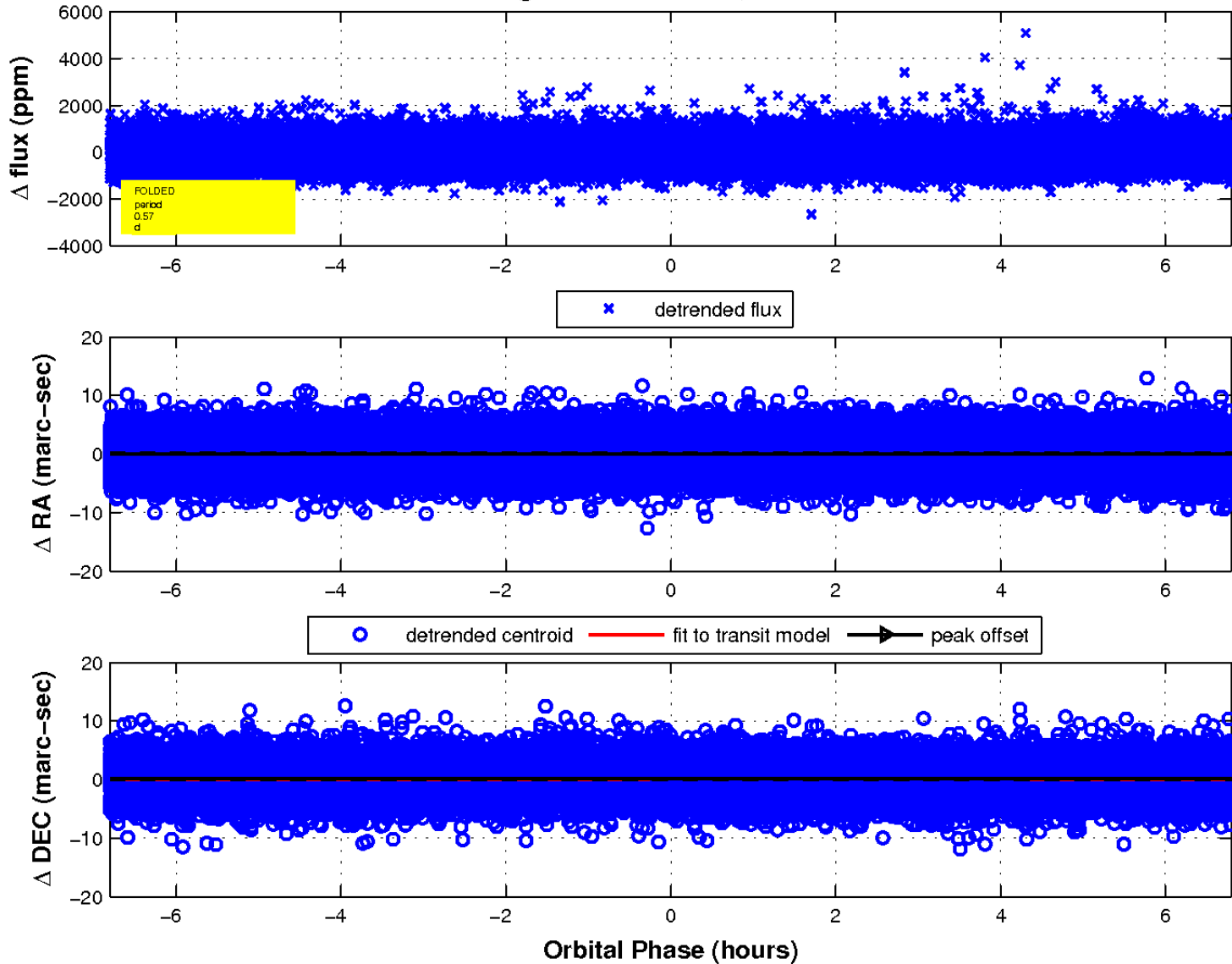
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

