

KIC 011446254

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})
011446254-01	OBS	No	0.631964	131.663240	60.5	6.677	8.3	10.9	0.62	4494	0.46	903.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011446254-01	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.

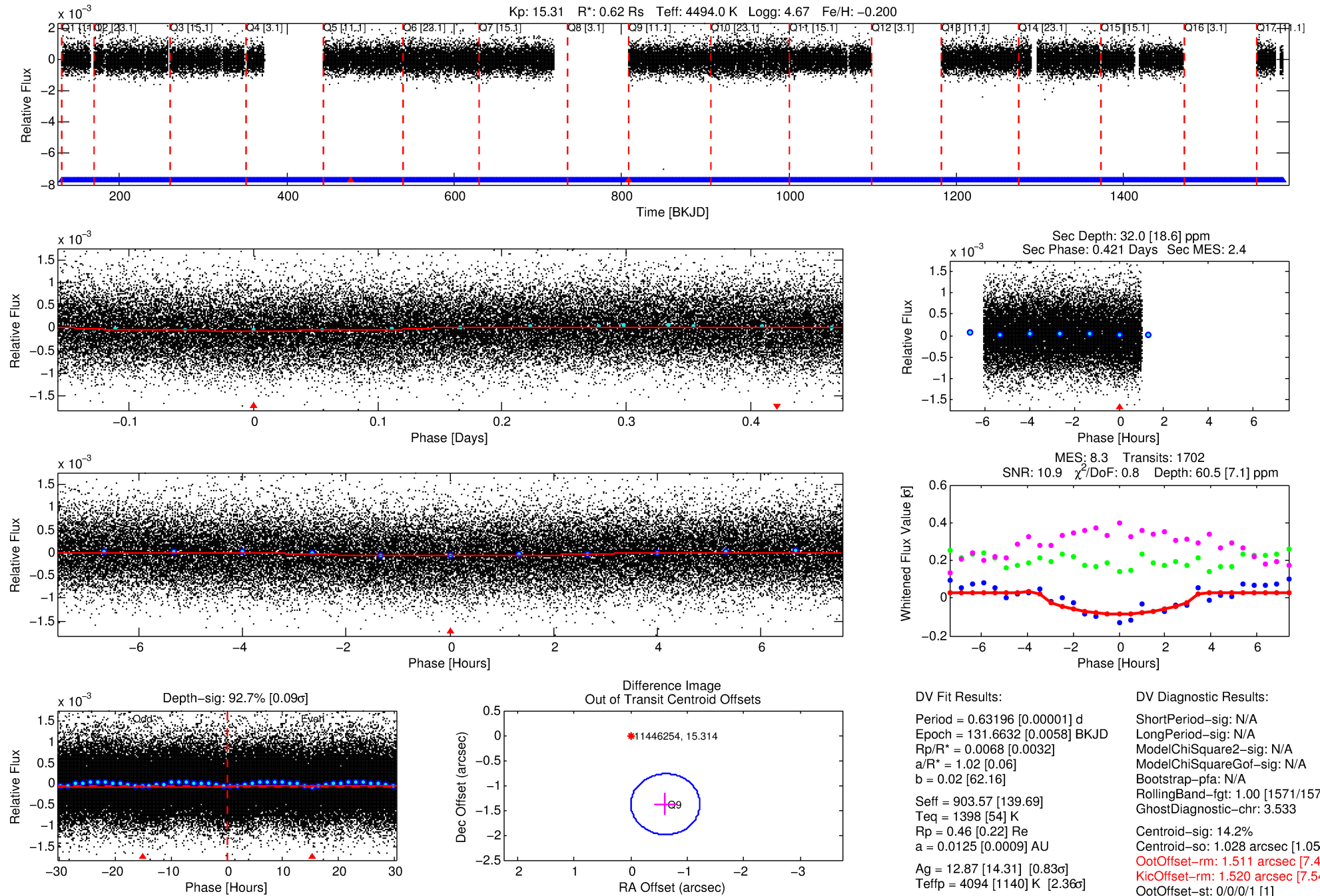
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011446254-01

No Significant Match Found

DV One-Page Summary

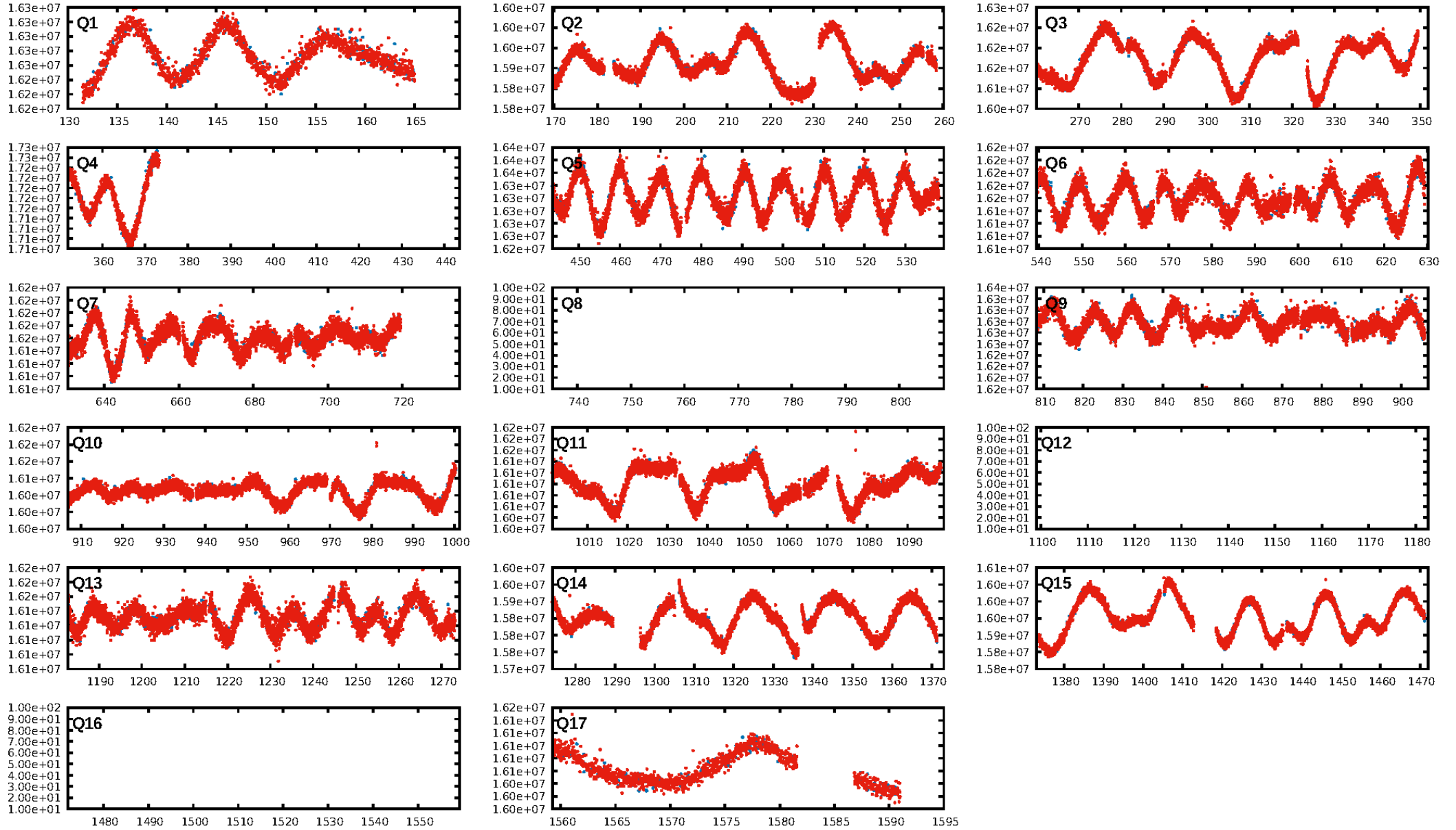
KIC: 11446254 Candidate: 1 of 1 Period: 0.632 d



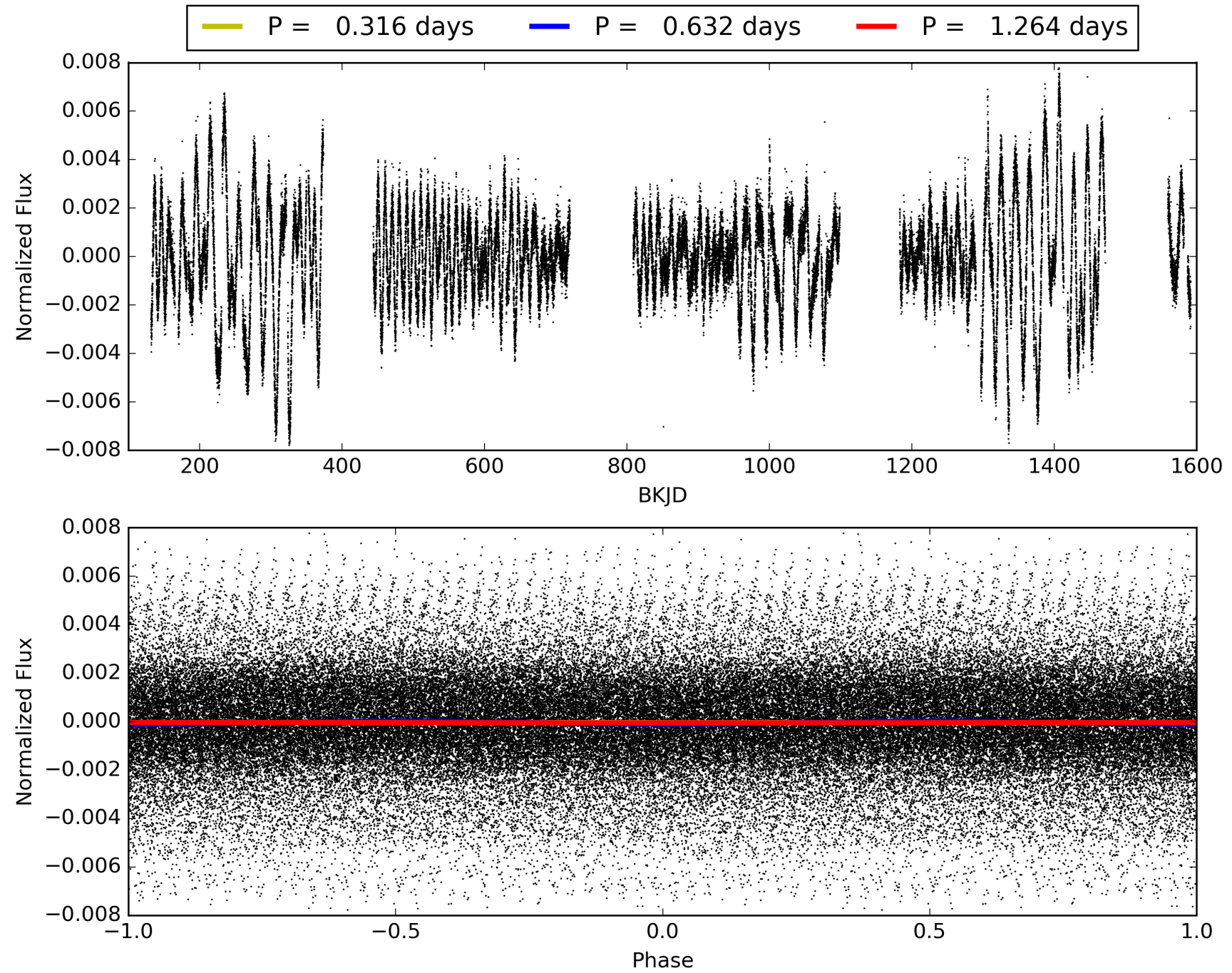
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:04:26 Z

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

TCE 011446254-01, PDC Light Curves

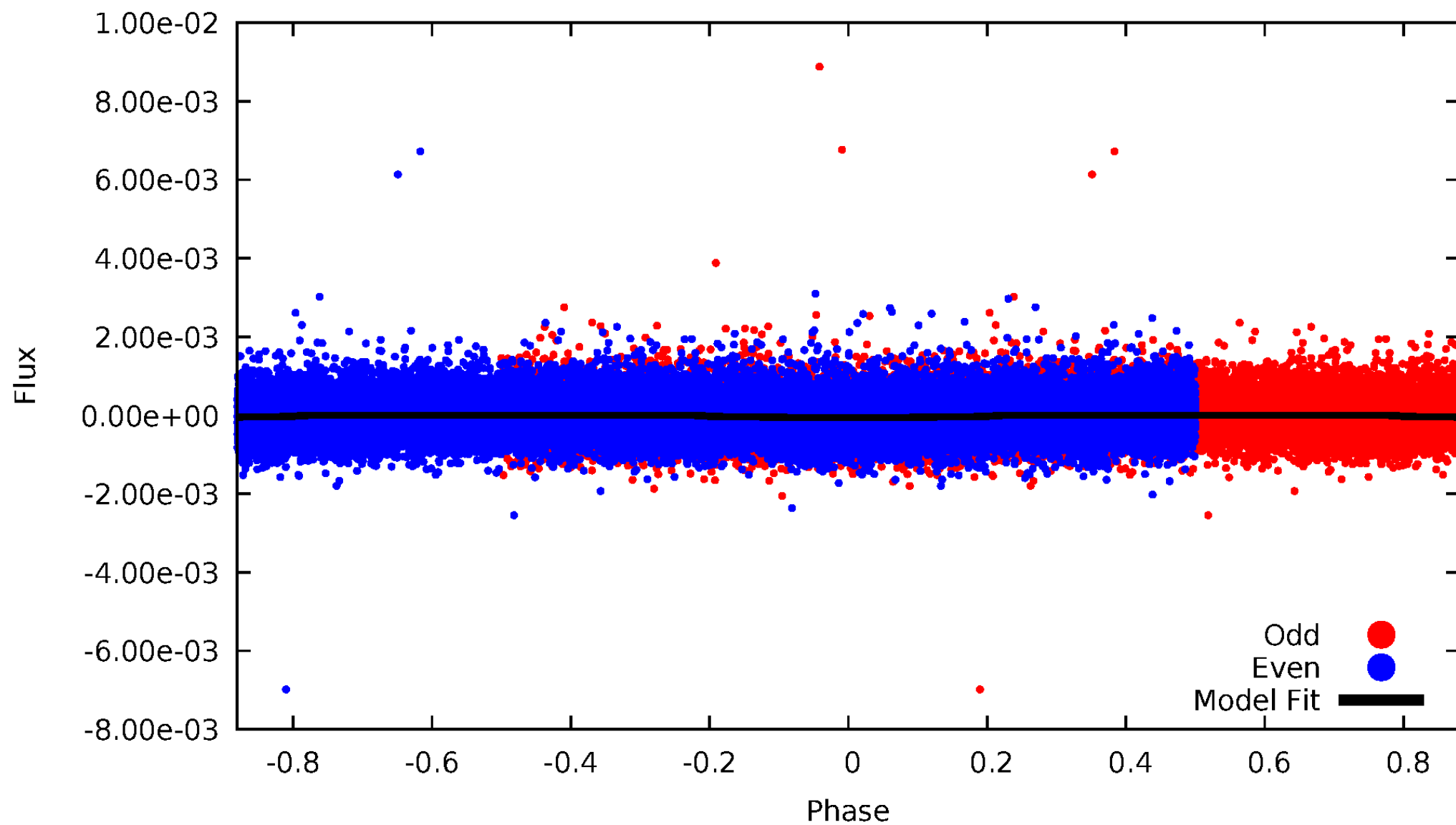


TCE 011446254-01



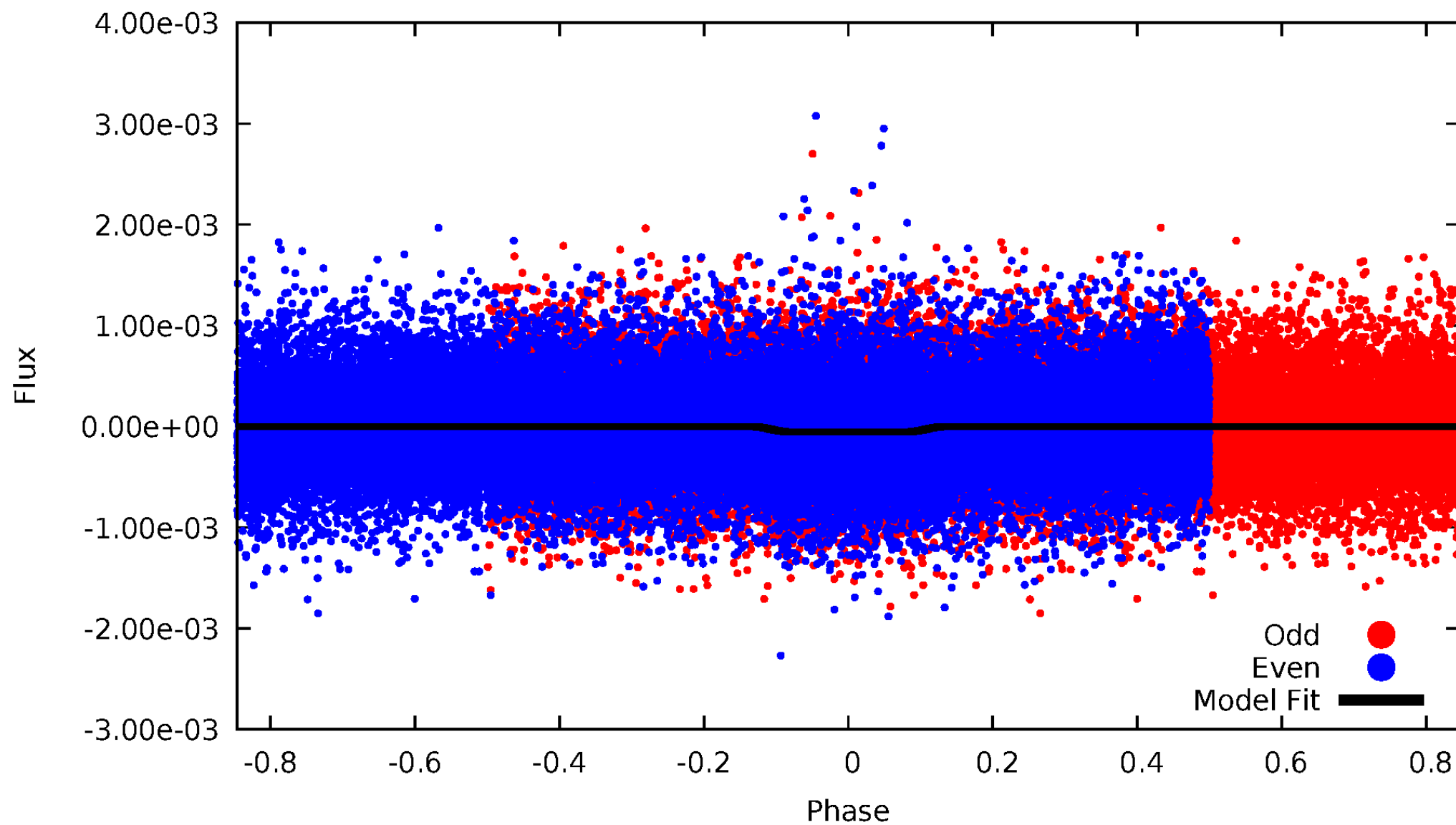
DV Odd/Even

TCE 011446254-01



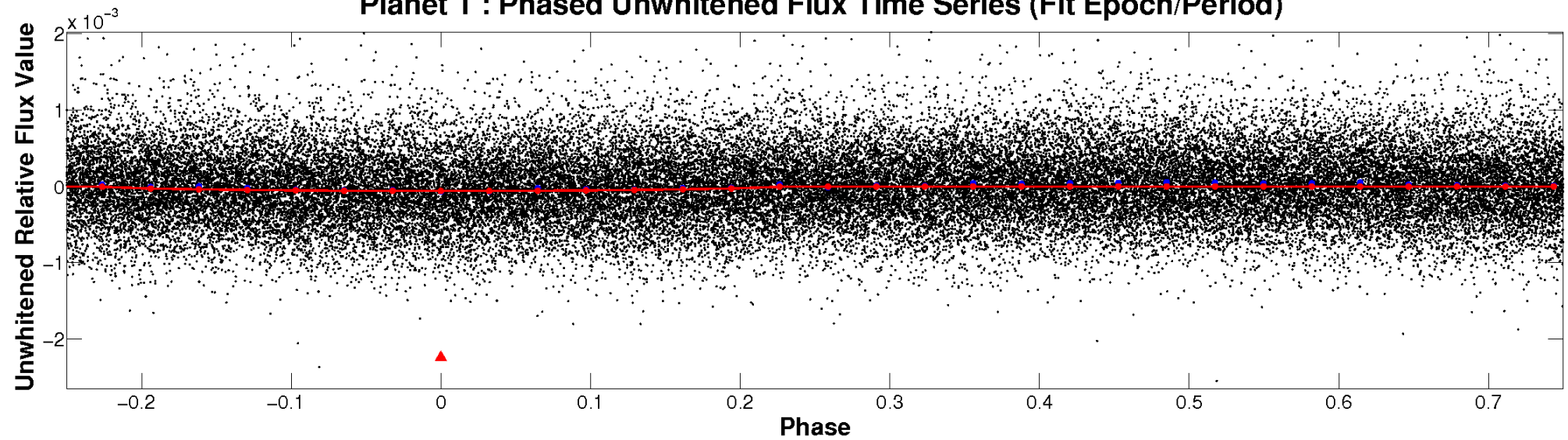
ALT Odd/Even

TCE 011446254-01

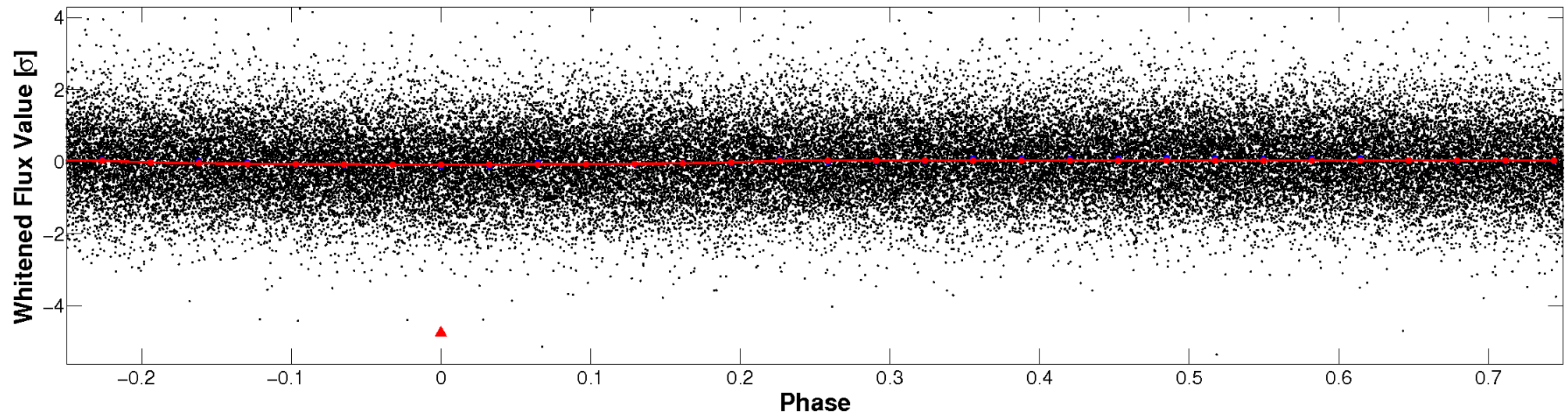


Non-Whitened Vs. Whitened Light Curve

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

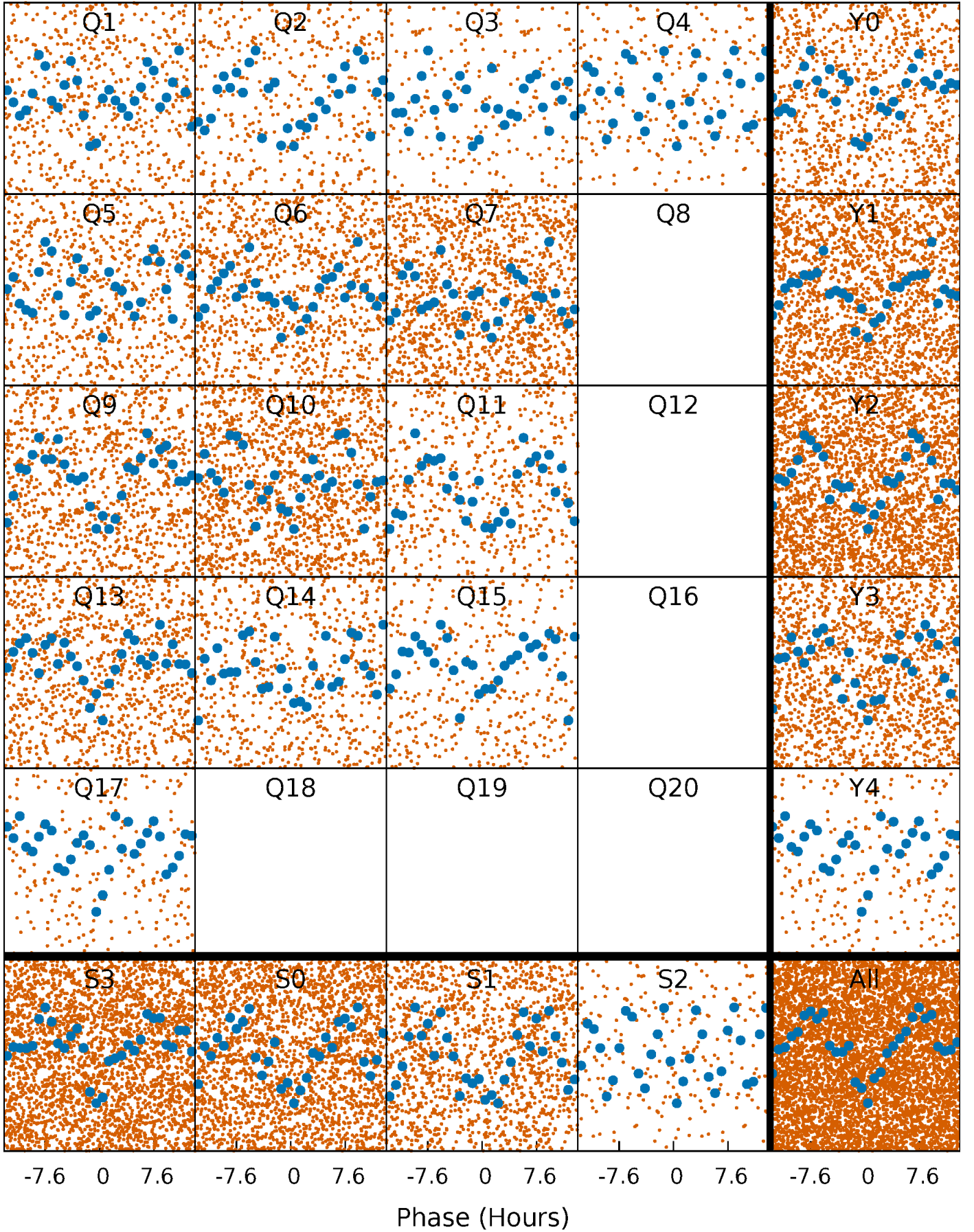


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



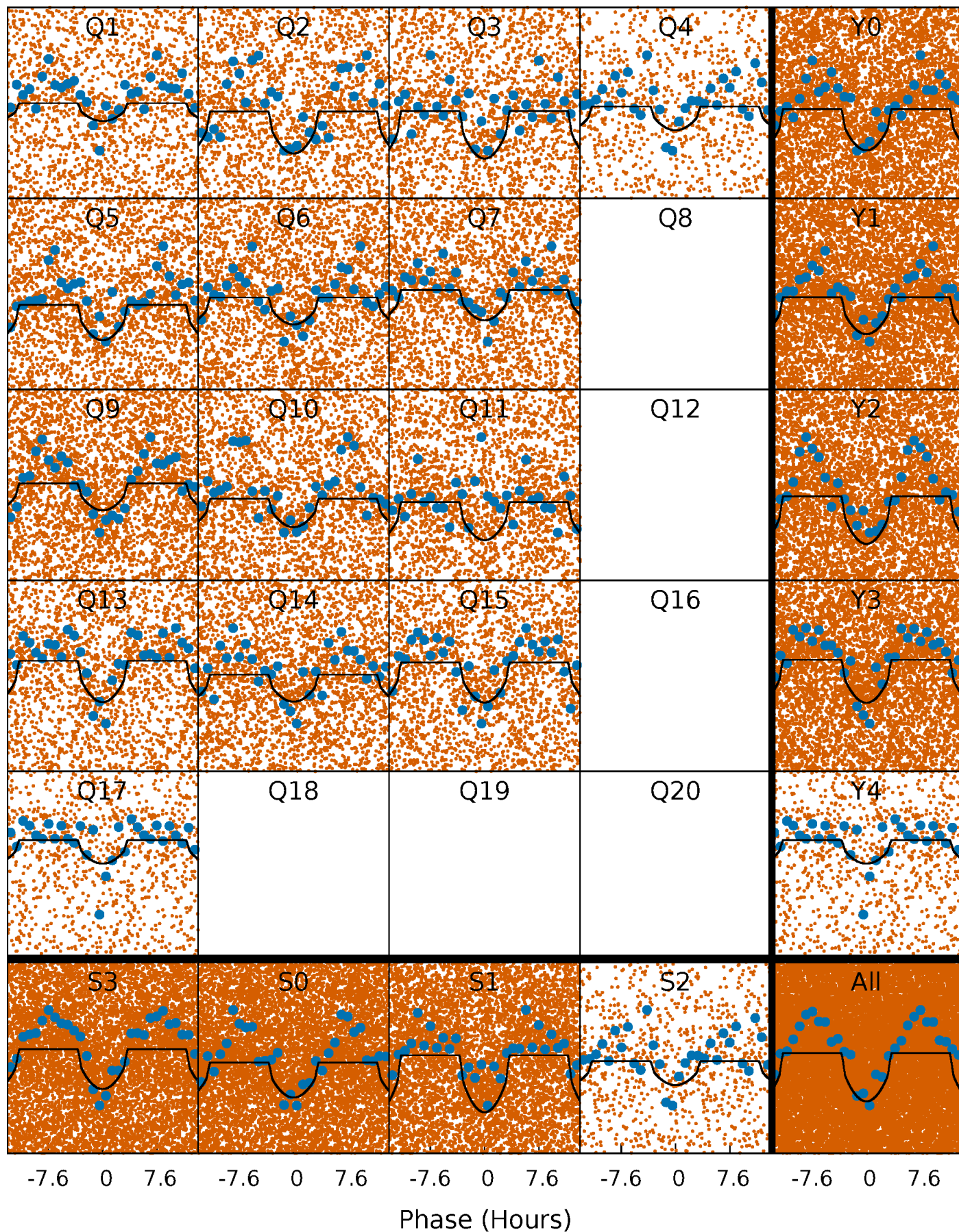
PDC Quarter-Phased Transit Curves

TCE 011446254-01 P= 0.631964 Days $T_0=131.663240$ (BKJD)



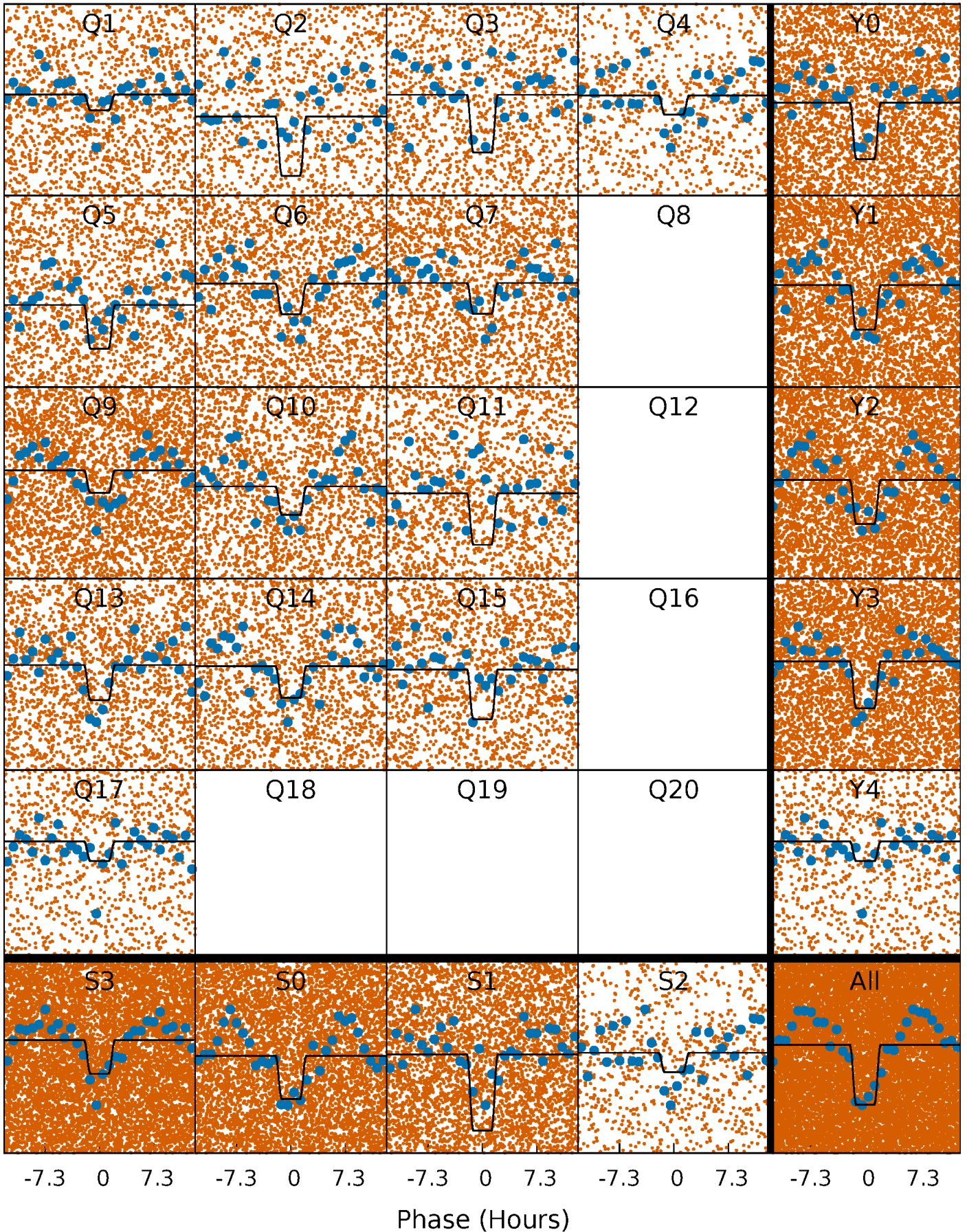
DV Quarter-Phased Transit Curves

TCE 011446254-01 P= 0.631964 Days $T_0=131.663240$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

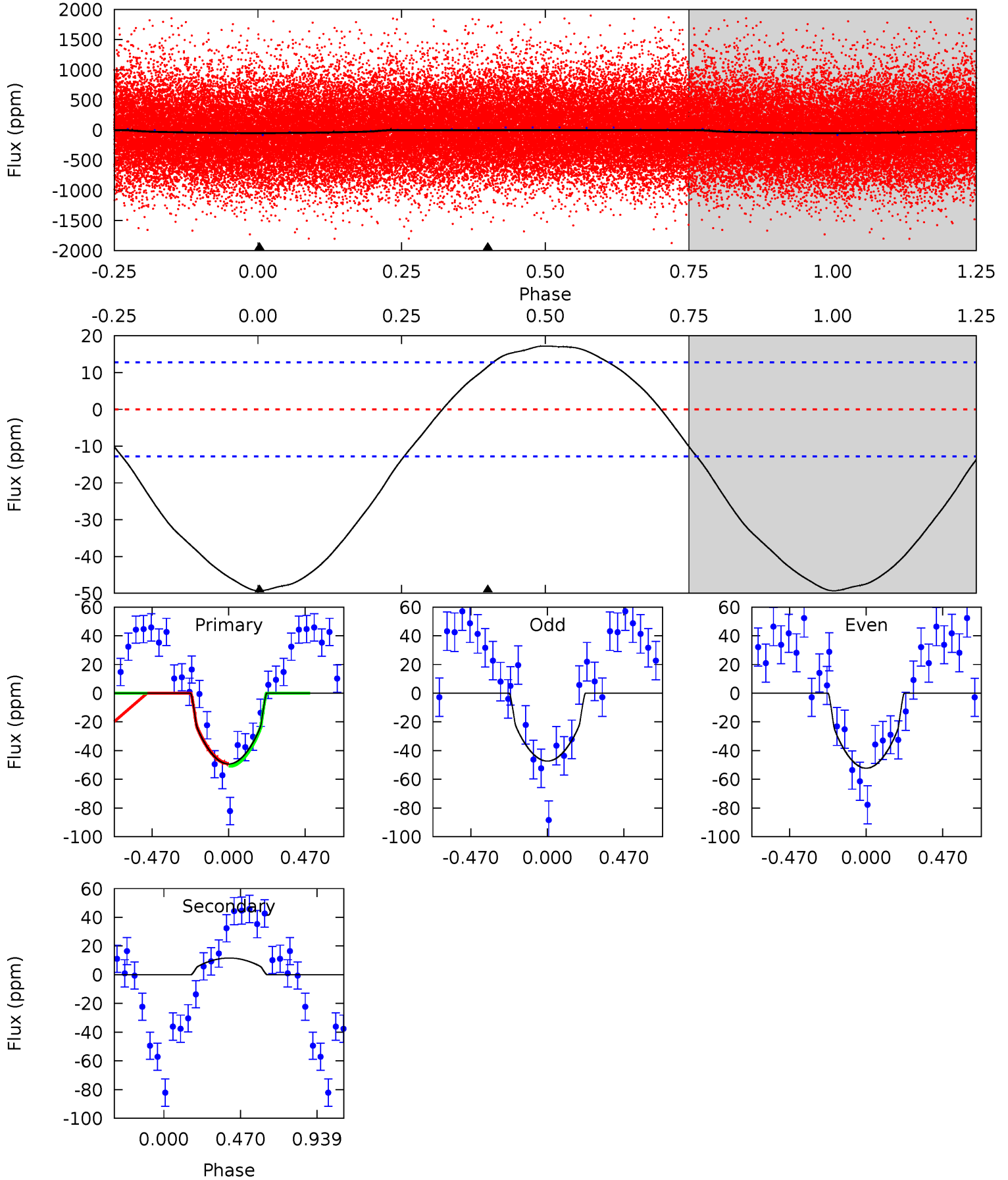
TCE 011446254-01 P= 0.631973 Days $T_0=131.655200$ (BKJD)



DV Model-Shift Uniqueness Test

011446254-01, P = 0.631964 Days, E = 131.031276 Days

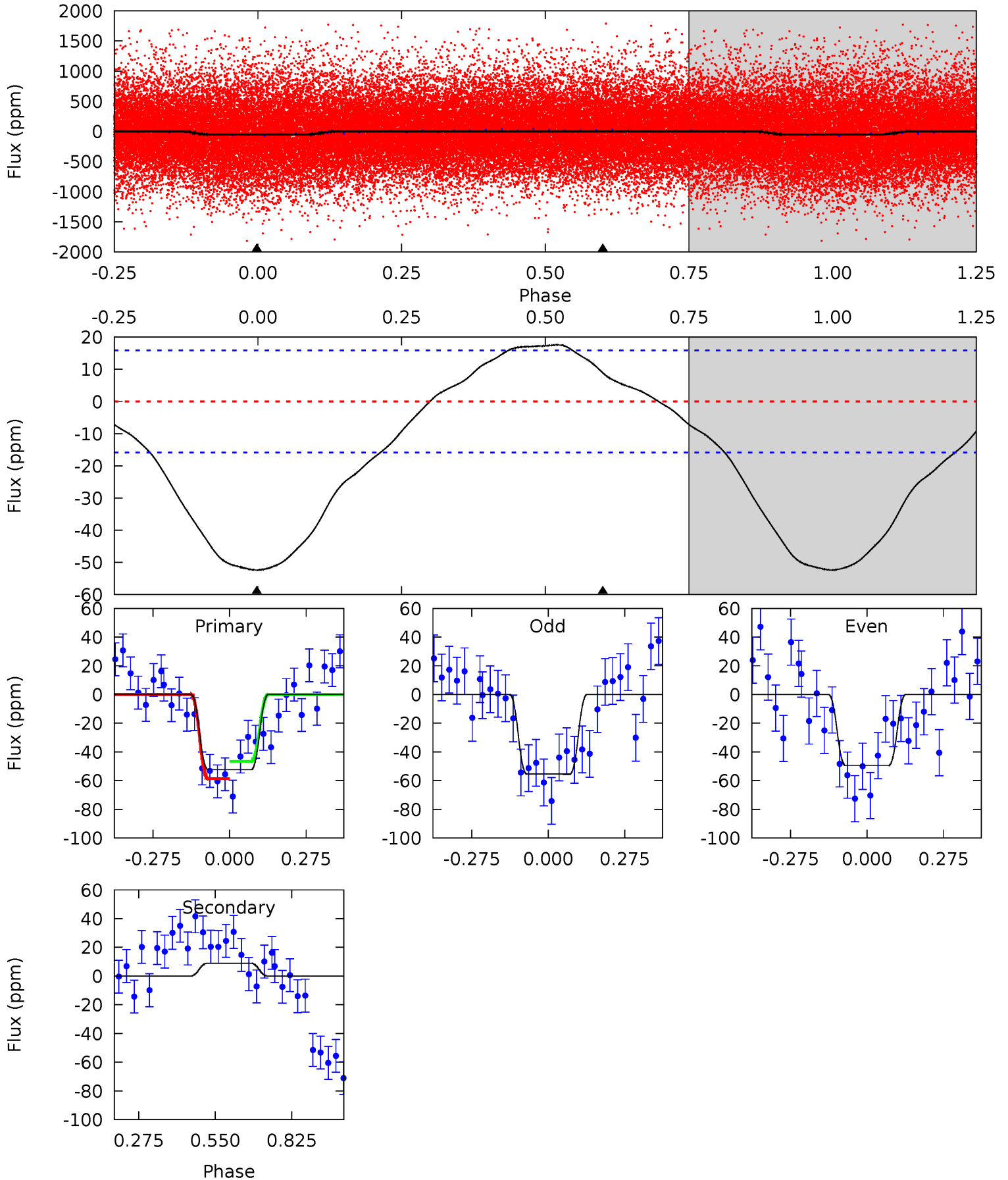
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.3	-3.85	0	0	4.23	0.72	1.89	16.3	16.3	-3.85	-3.85	0.82	1.04	0.26	0.33



Alt Model-Shift Uniqueness Test

011446254-01, P = 0.631973 Days, E = 131.023227 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.4	-2.45	0	0	4.35	1.09	1.24	14.4	14.4	-2.45	-2.45	0.81	0.87	0.25	1.60



Stellar Parameters For KIC 011446254

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	4494^{+134}_{-134}	$4.667^{+0.028}_{-0.048}$	$-0.200^{+0.300}_{-0.300}$	$0.624^{+0.061}_{-0.041}$	$0.674^{+0.057}_{-0.063}$	$3.900^{+0.498}_{-0.725}$
	+3%/-3%	+1%/-1%	+150%/-150%	+10%/-7%	+8%/-9%	+13%/-19%
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 011446254-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	12 ± 3	$0.47^{+0.23}_{-0.20}$	1960^{+68}_{-62}	-3549^{+399}_{-821}	$-4.454^{+2.564}_{-10.689}$
Alt.	9 ± 4	$0.49^{+0.23}_{-0.21}$	1965^{+66}_{-70}	-3379^{+416}_{-699}	$-3.191^{+2.010}_{-6.870}$

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 $A_{obs} \gg 1.0$

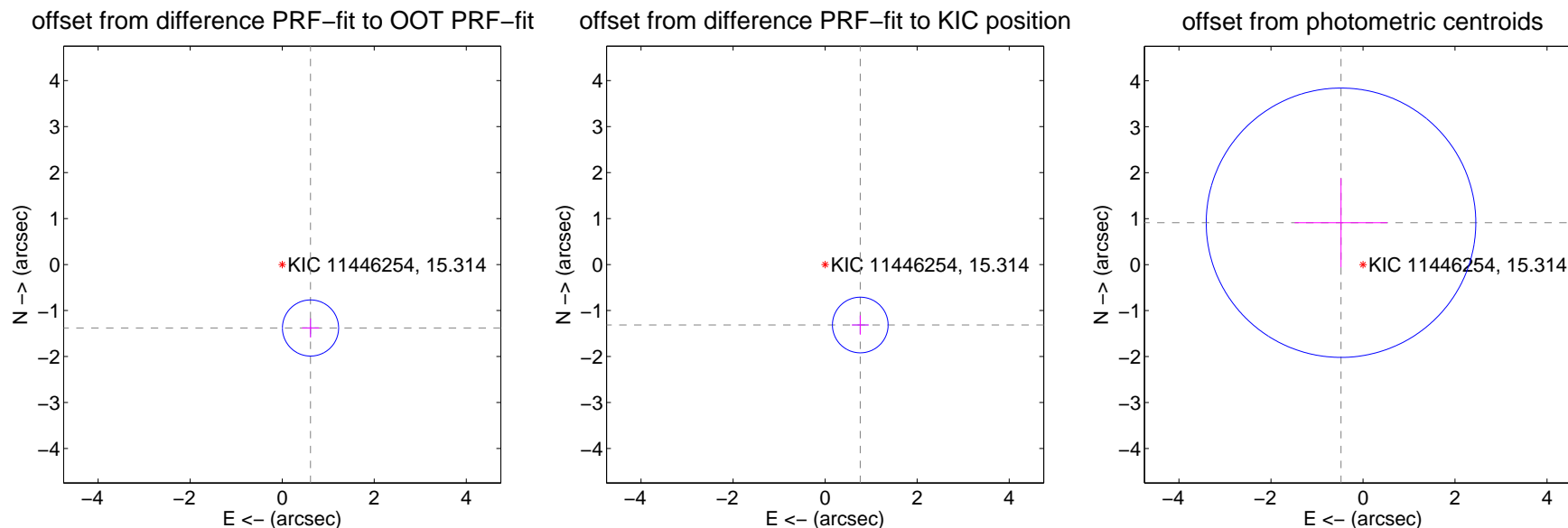
DV Centroid Data

Supplemental centroid analysis for 011446254-01. Kepler magnitude: 15.31. Transit SNR 10.88

There are 1 quarters with good PRF difference image offsets

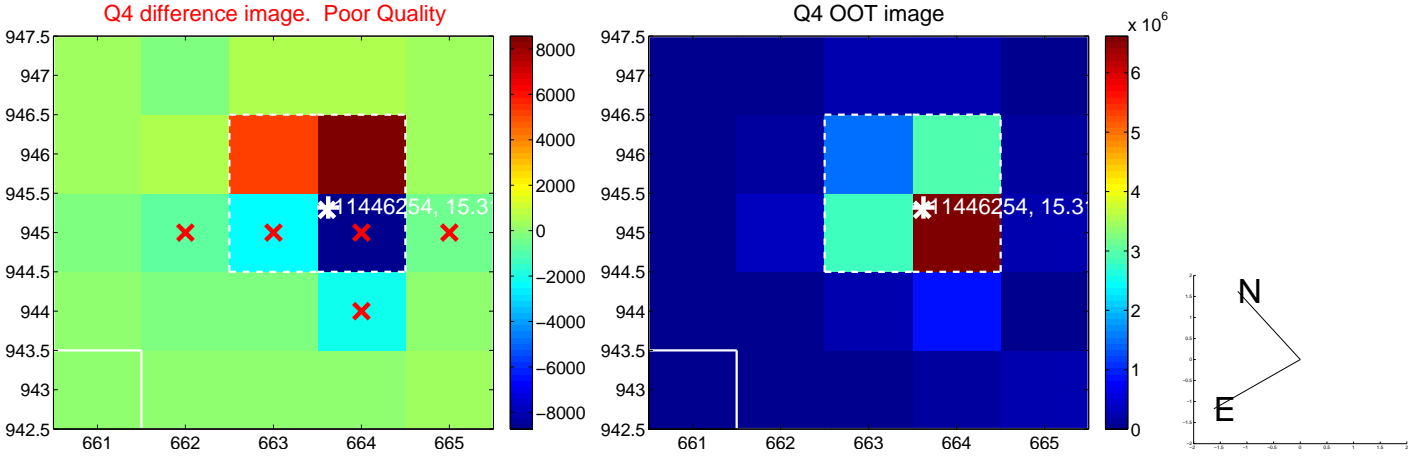
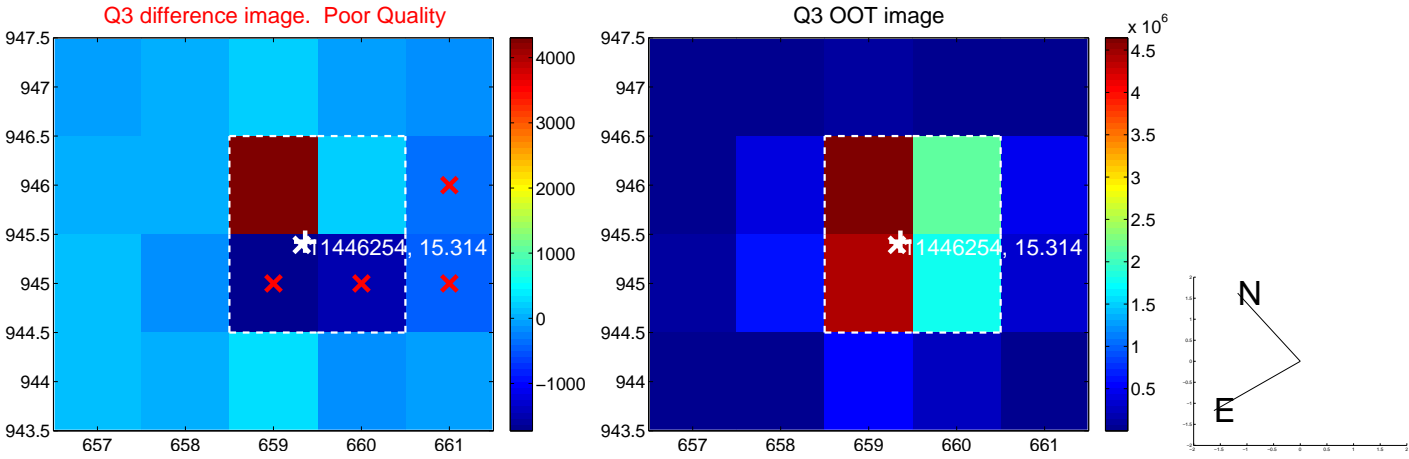
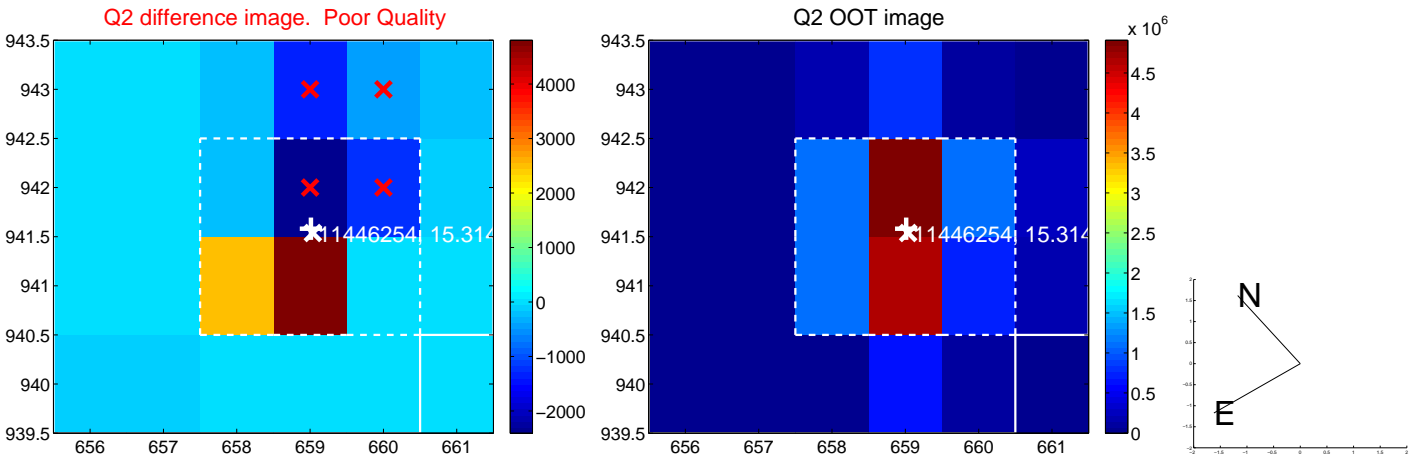
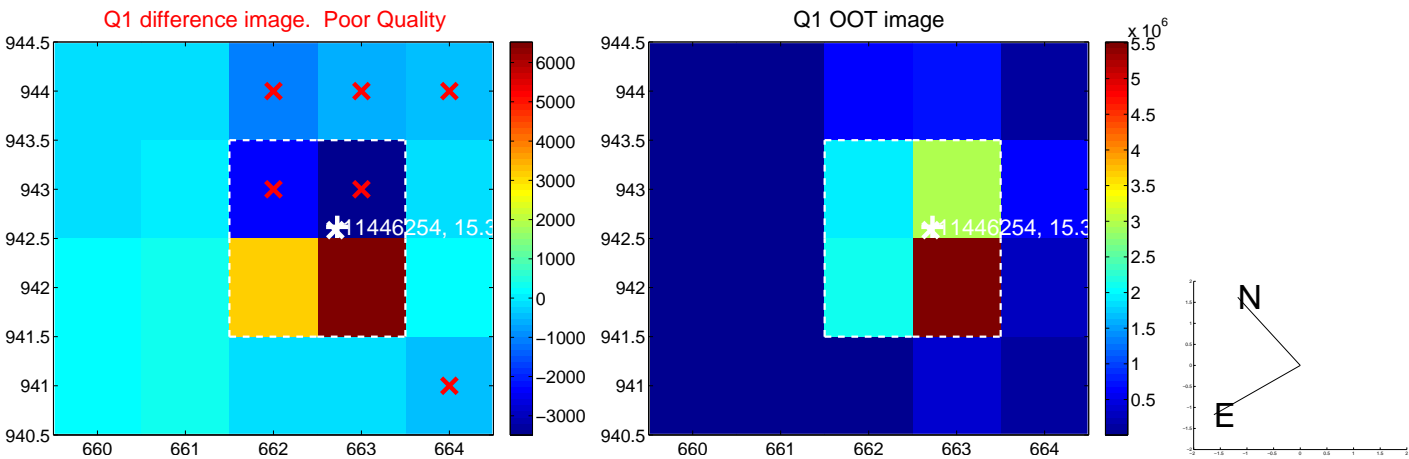
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.511 ± 0.203	7.43	-0.615 ± 0.185	-1.380 ± 0.207
PRF-fit source offset from KIC position	1.520 ± 0.202	7.54	-0.764 ± 0.185	-1.315 ± 0.207
photometric centroid source offset	1.03 ± 0.98	1.05	0.48 ± 1.01	0.91 ± 0.97

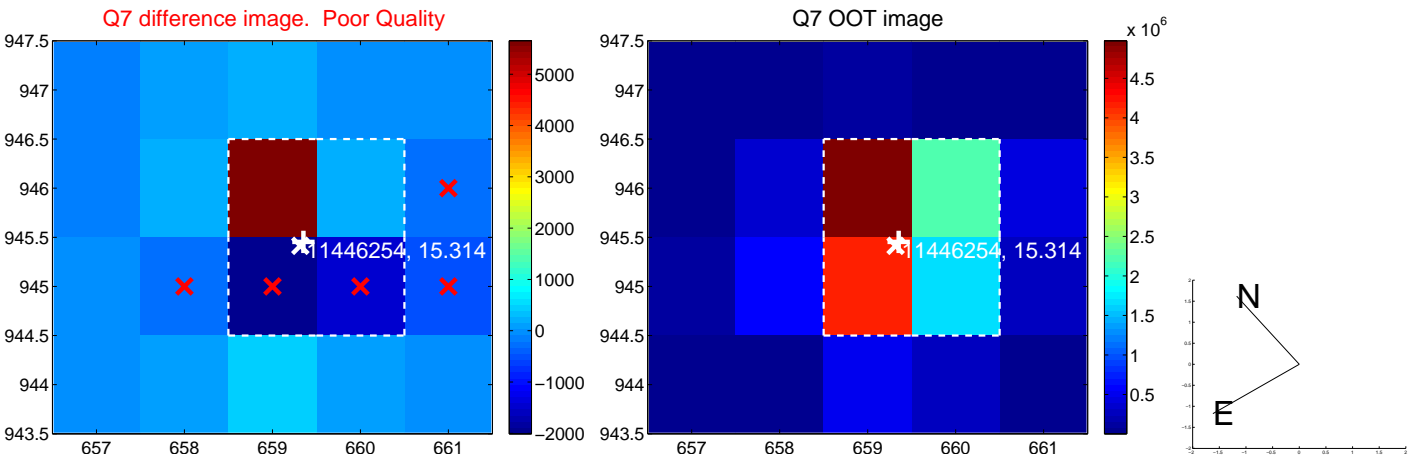
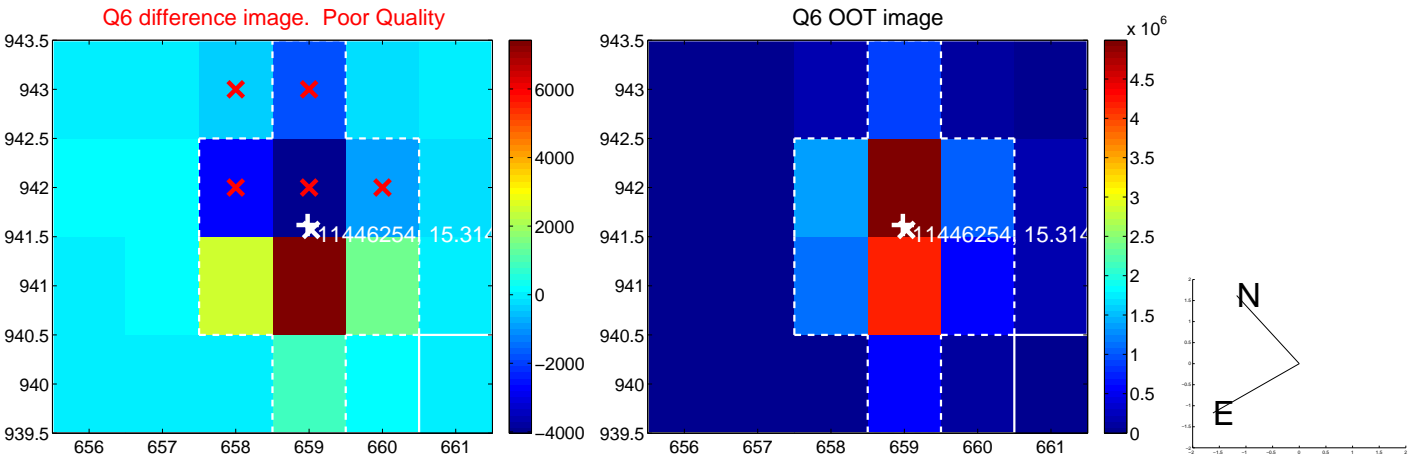
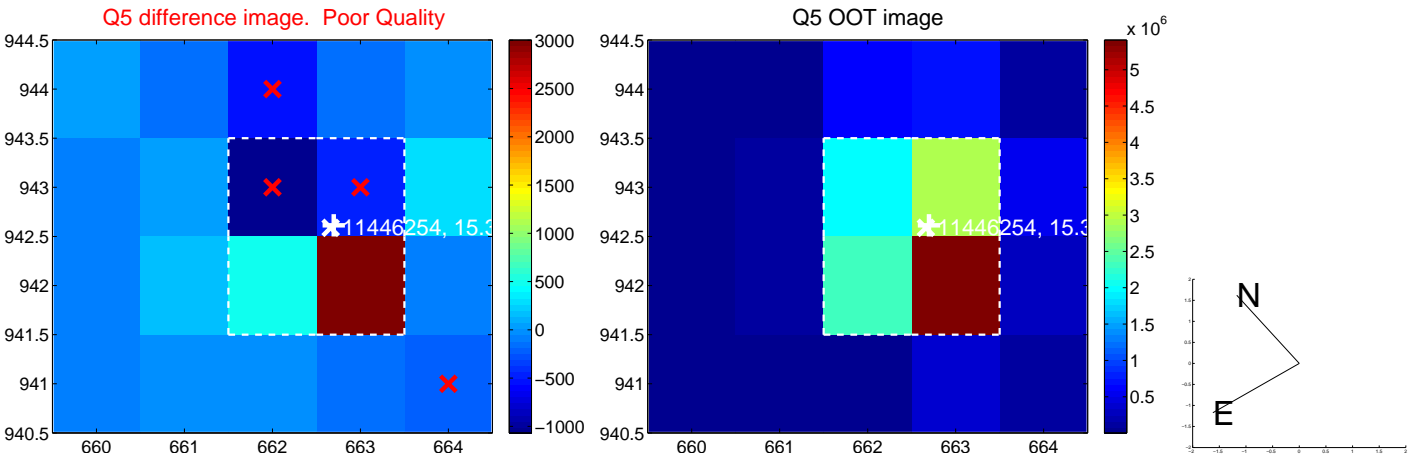


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

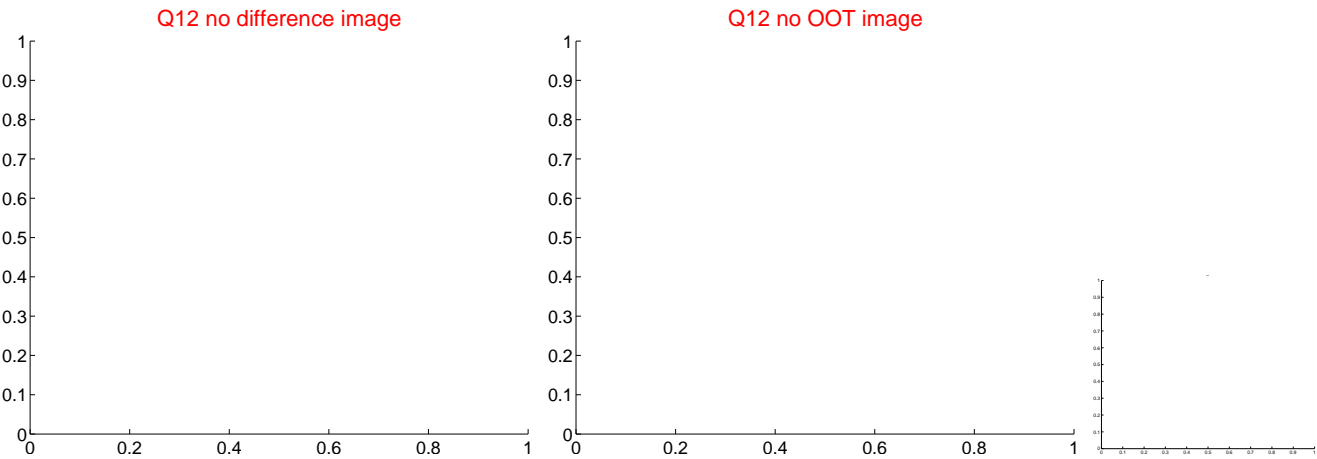
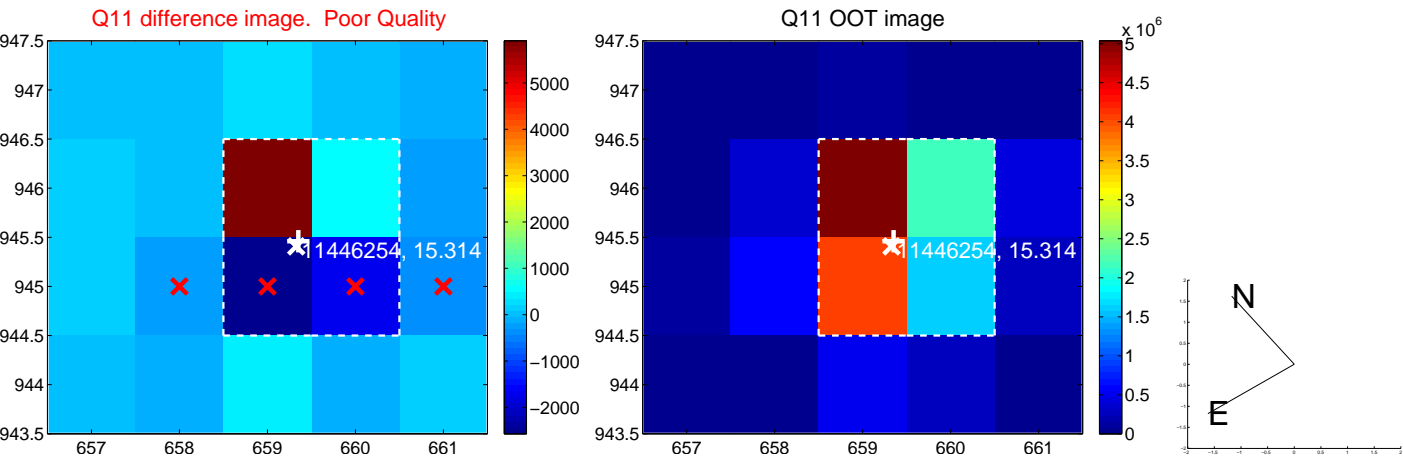
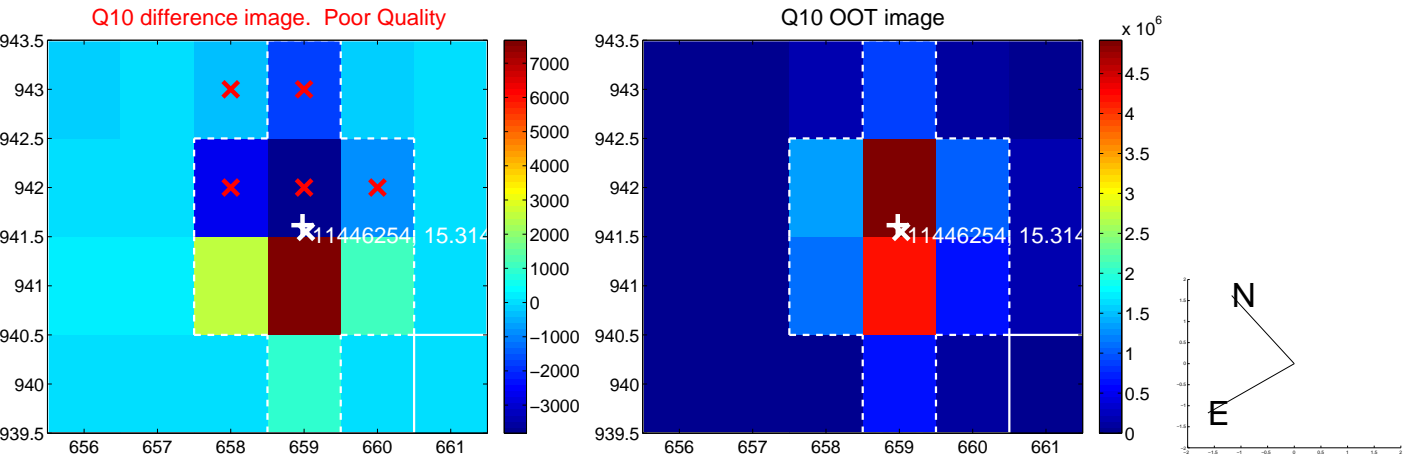
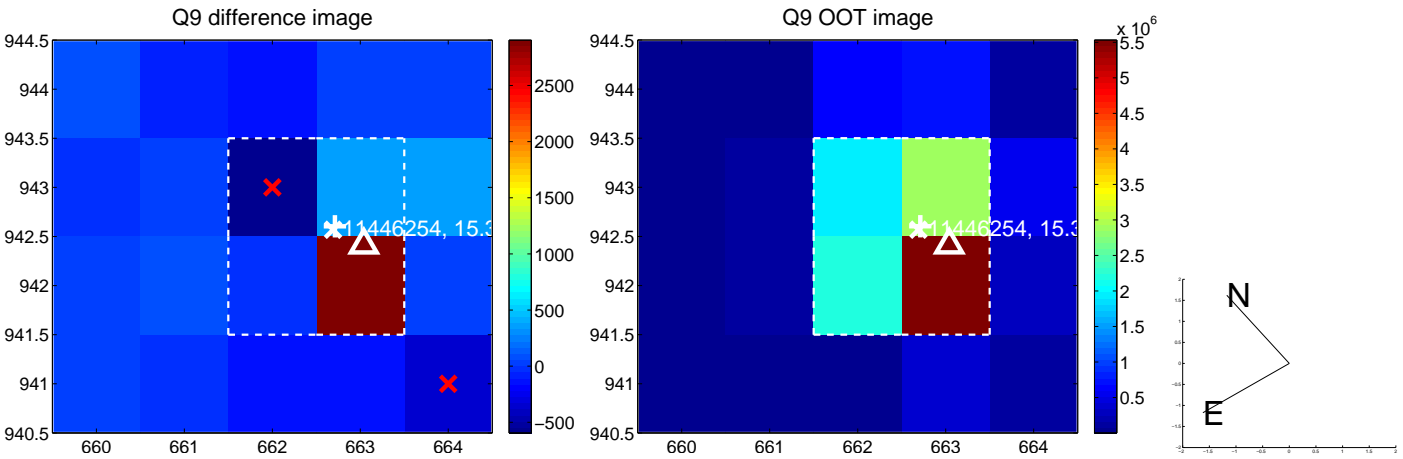
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



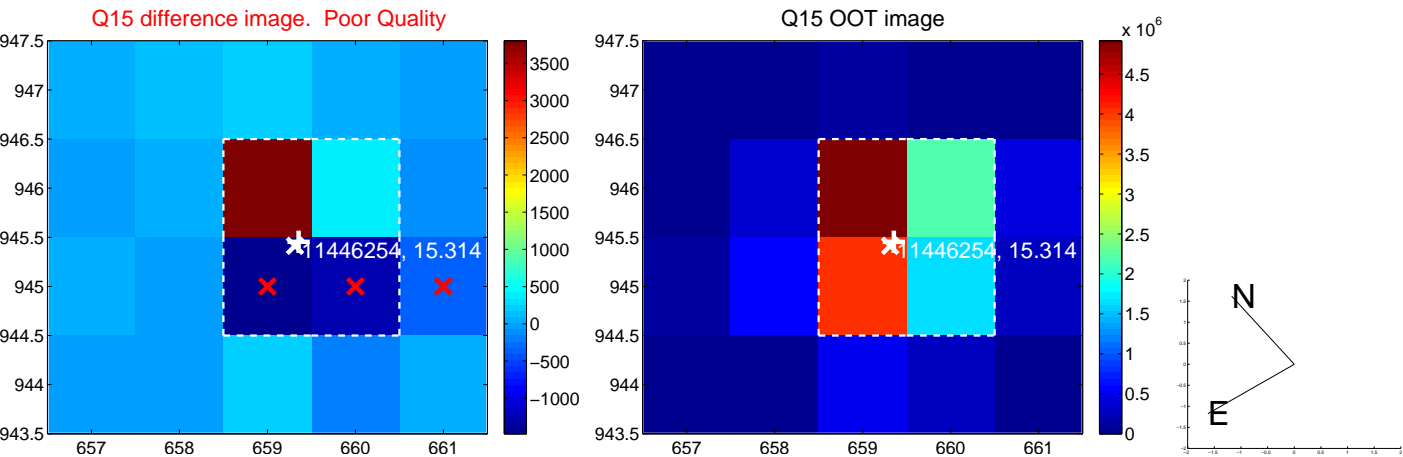
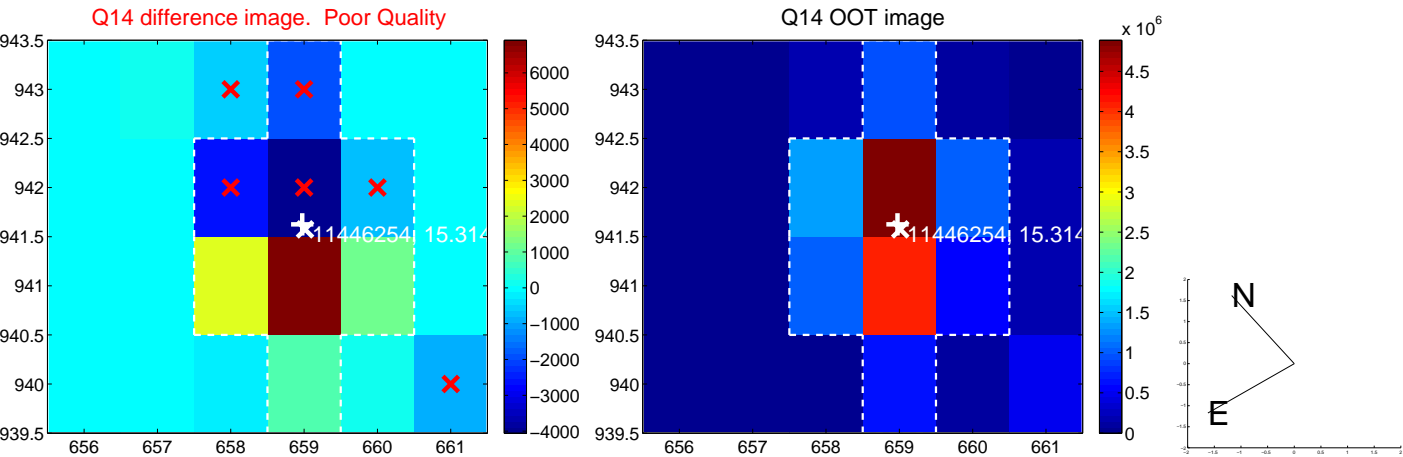
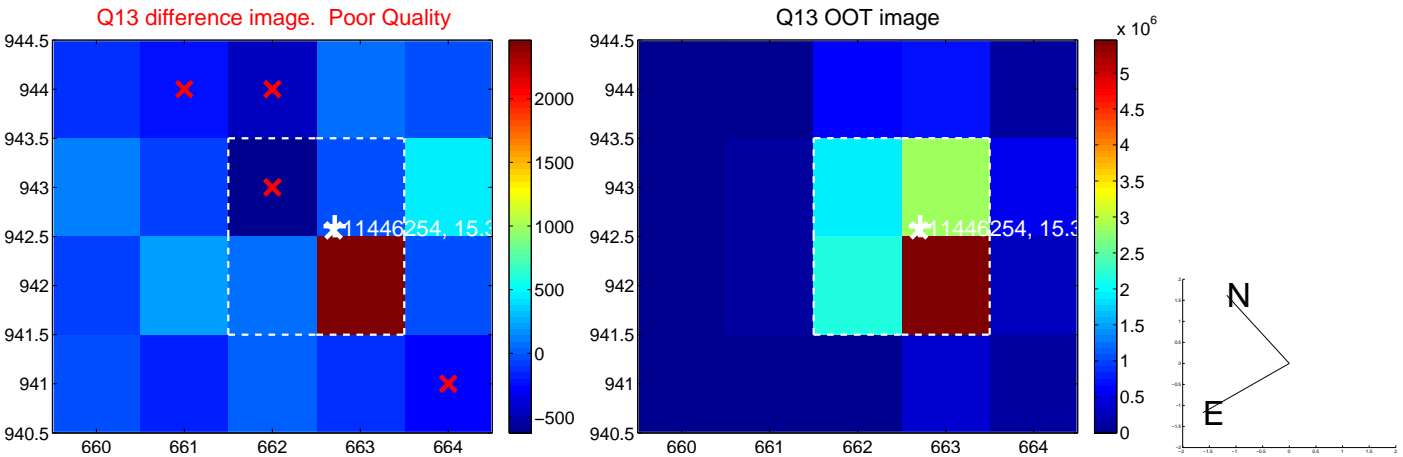
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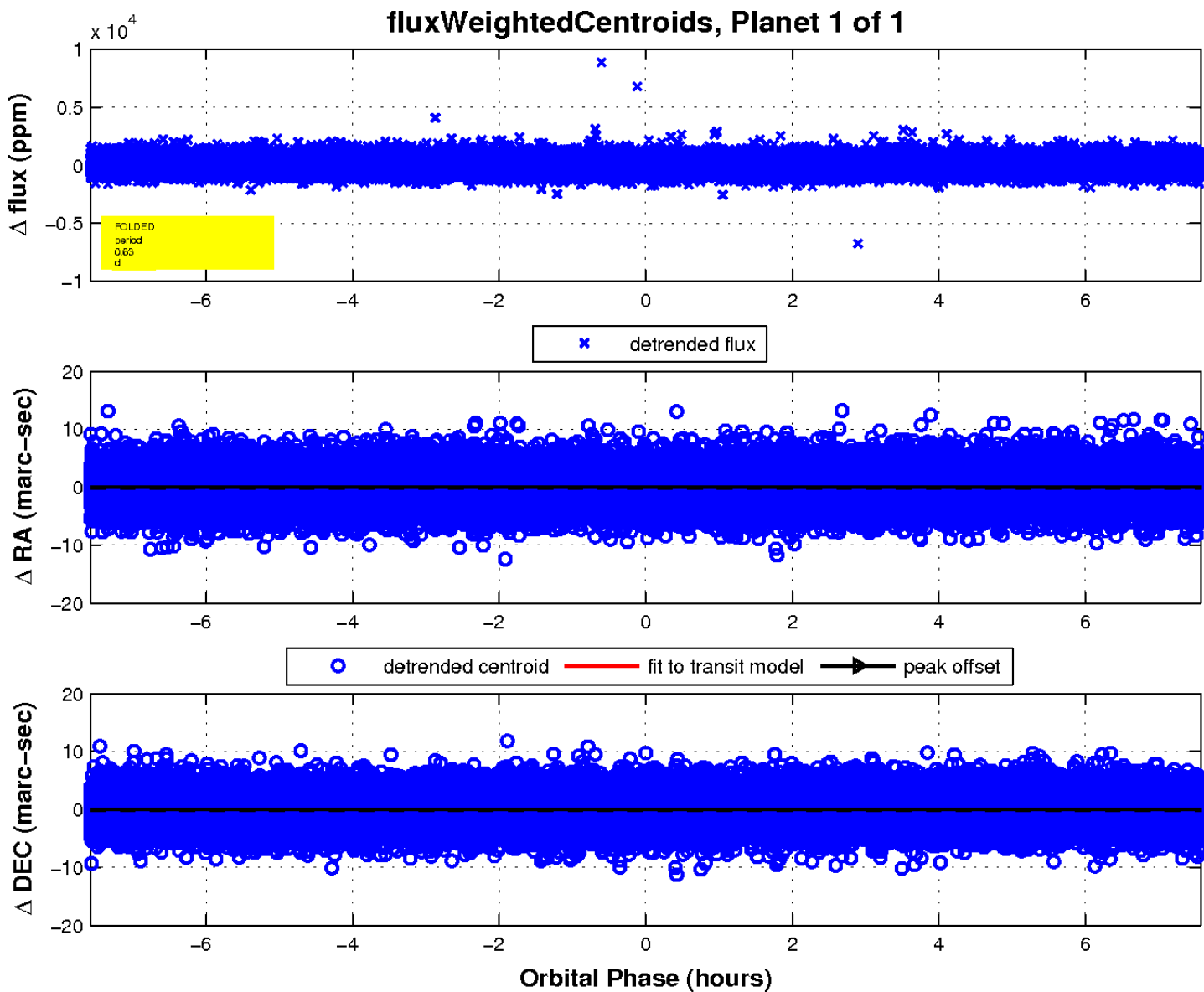
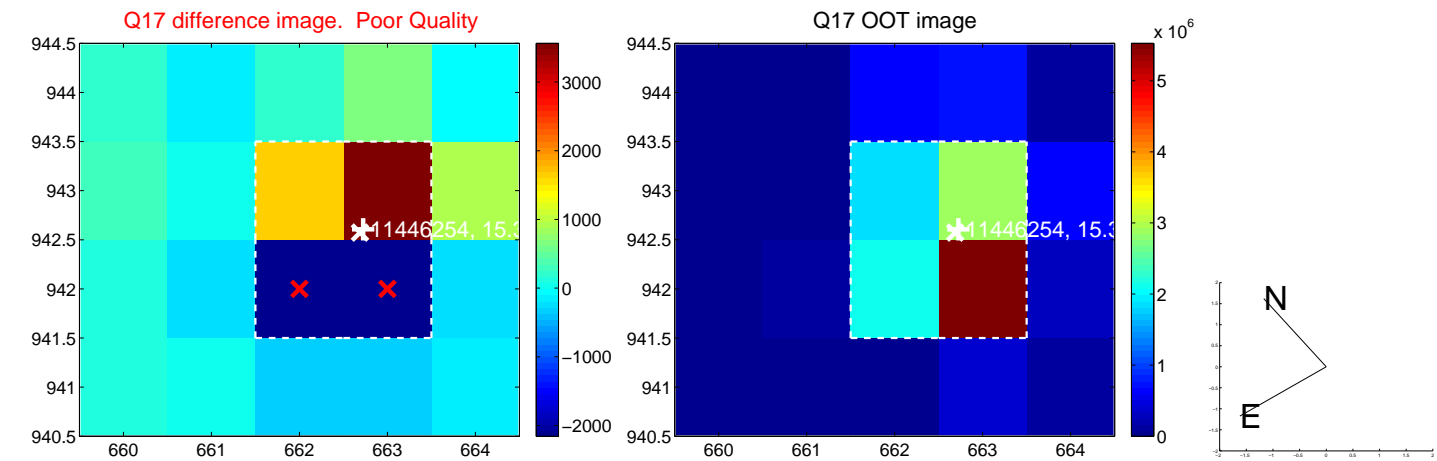
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



UKIRT Image

Declination

