

KIC 006864276

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})
006864276-01	OBS	No	0.661246	131.521610	186.0	2.000	9.5	-1.0	1.58	7284	2.19	22189.37

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006864276-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

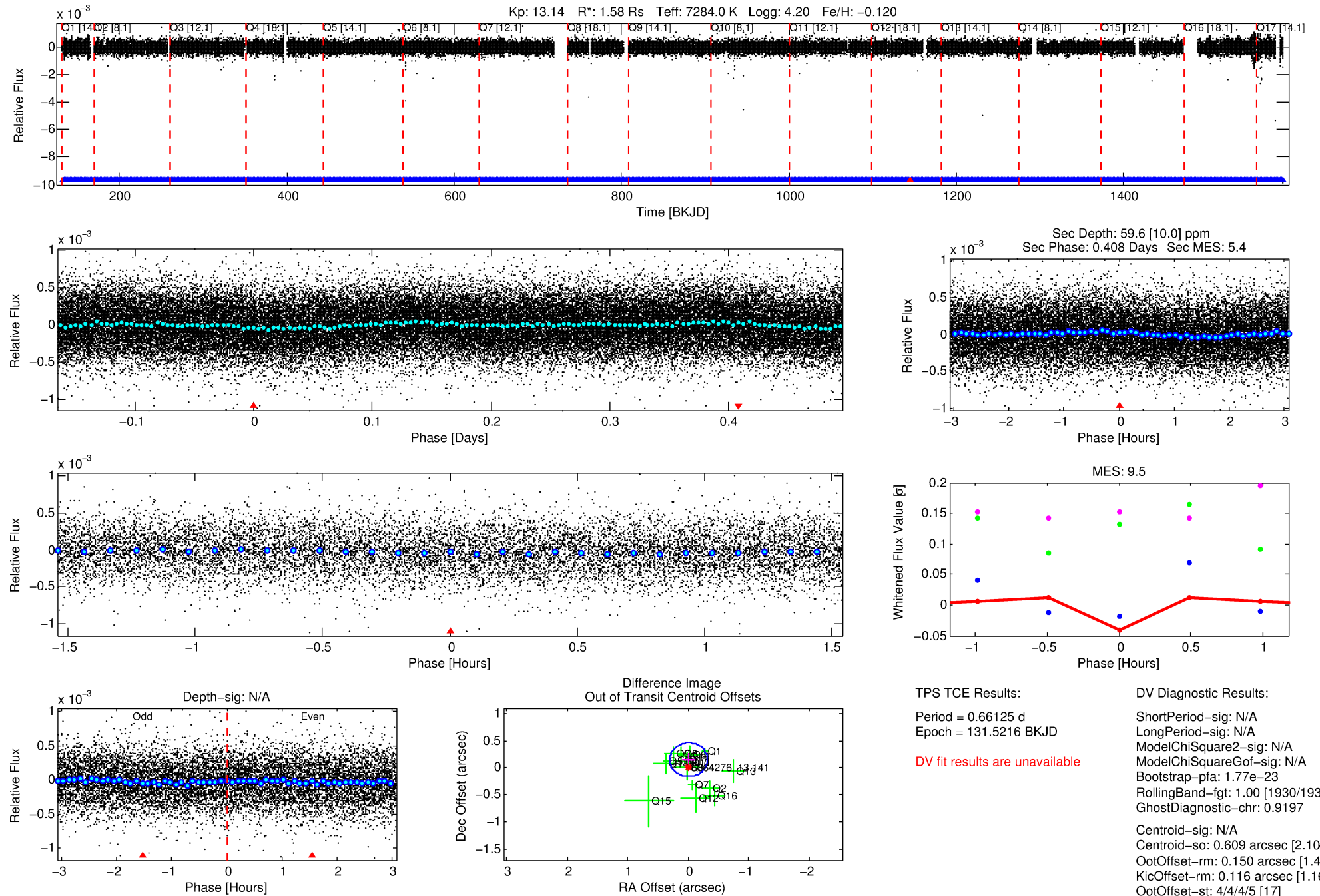
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006864276-01

No Significant Match Found

DV One-Page Summary

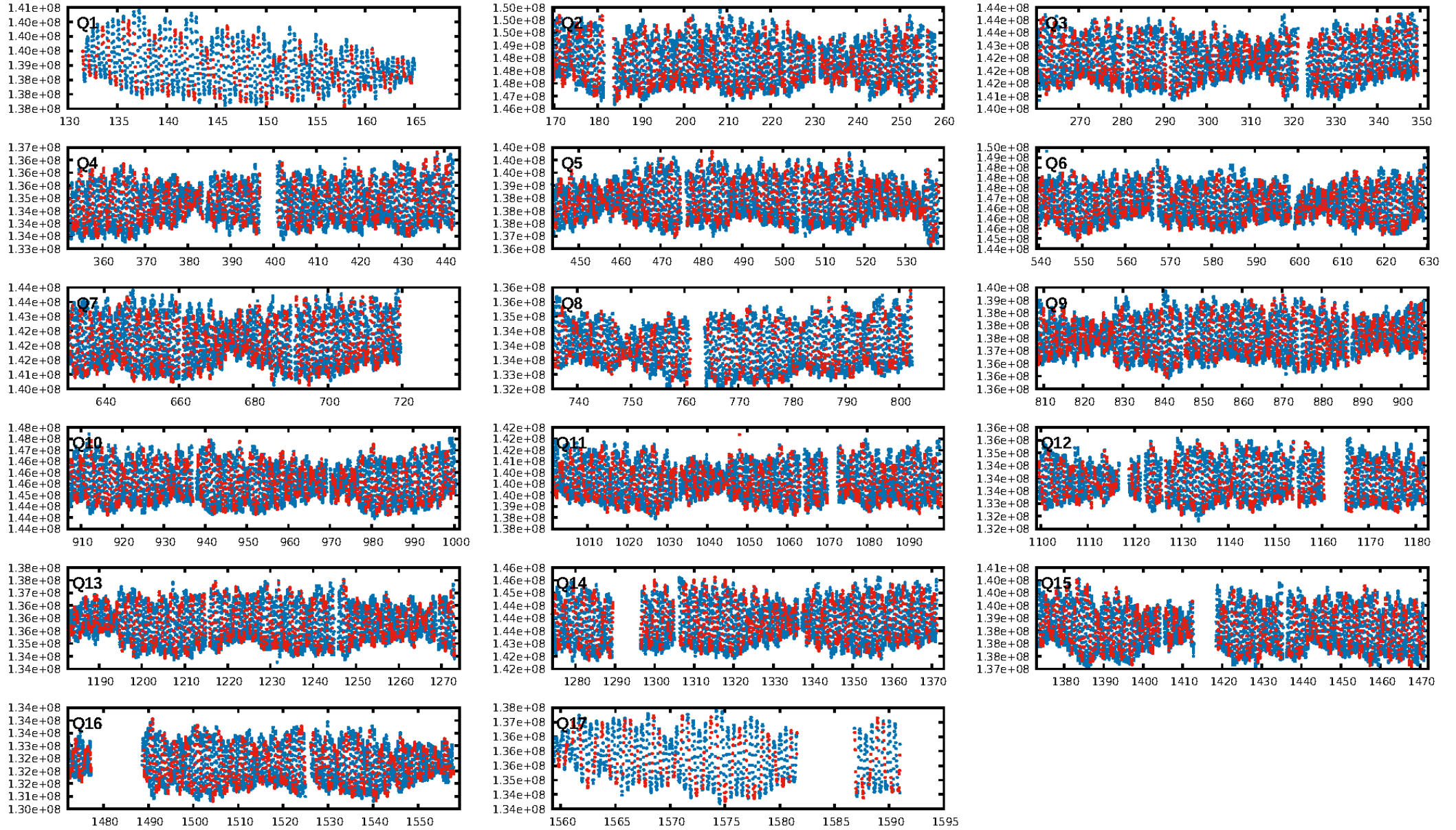
KIC: 6864276 Candidate: 1 of 1 Period: 0.661 d



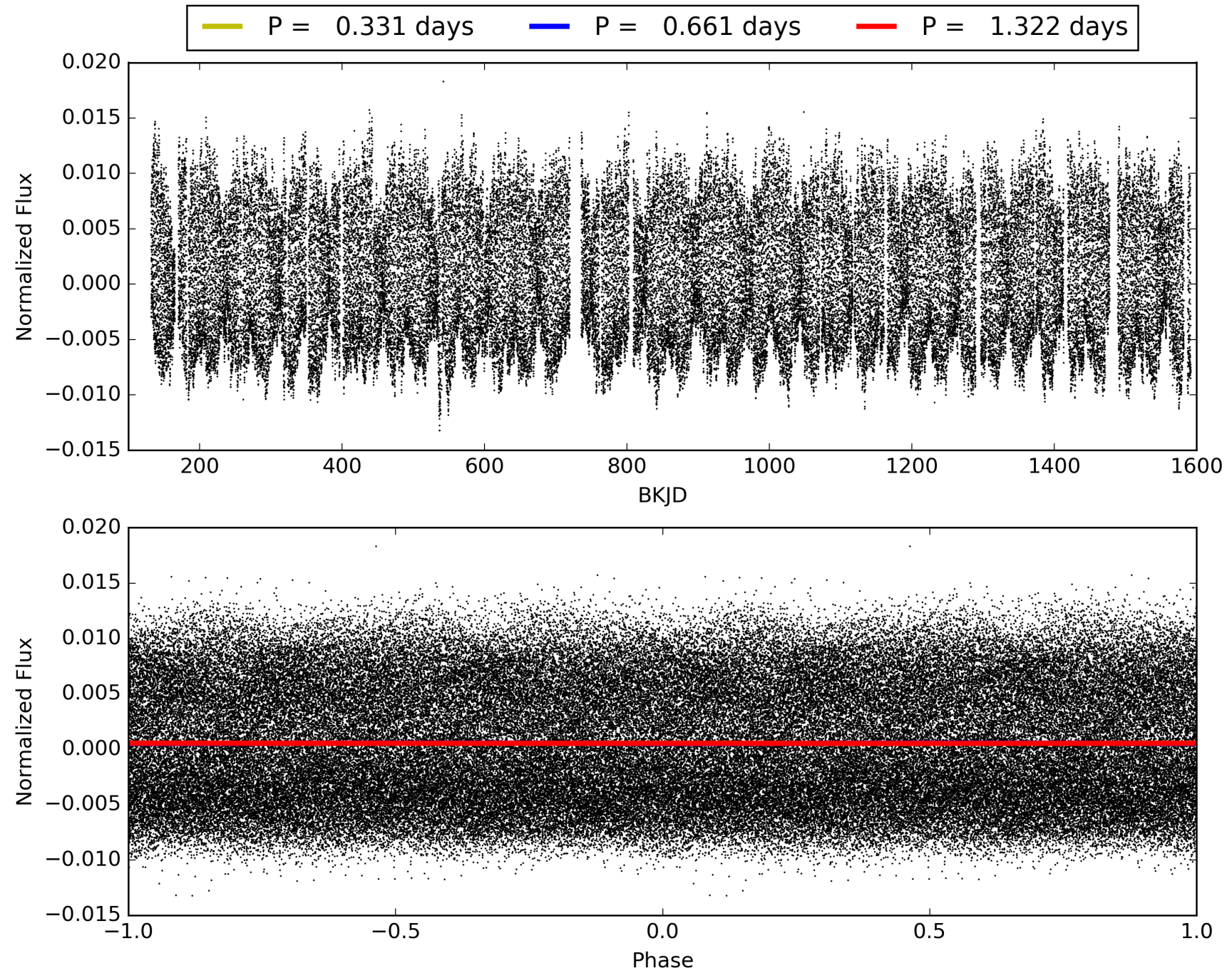
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 08:01:50 Z

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

TCE 006864276-01, PDC Light Curves

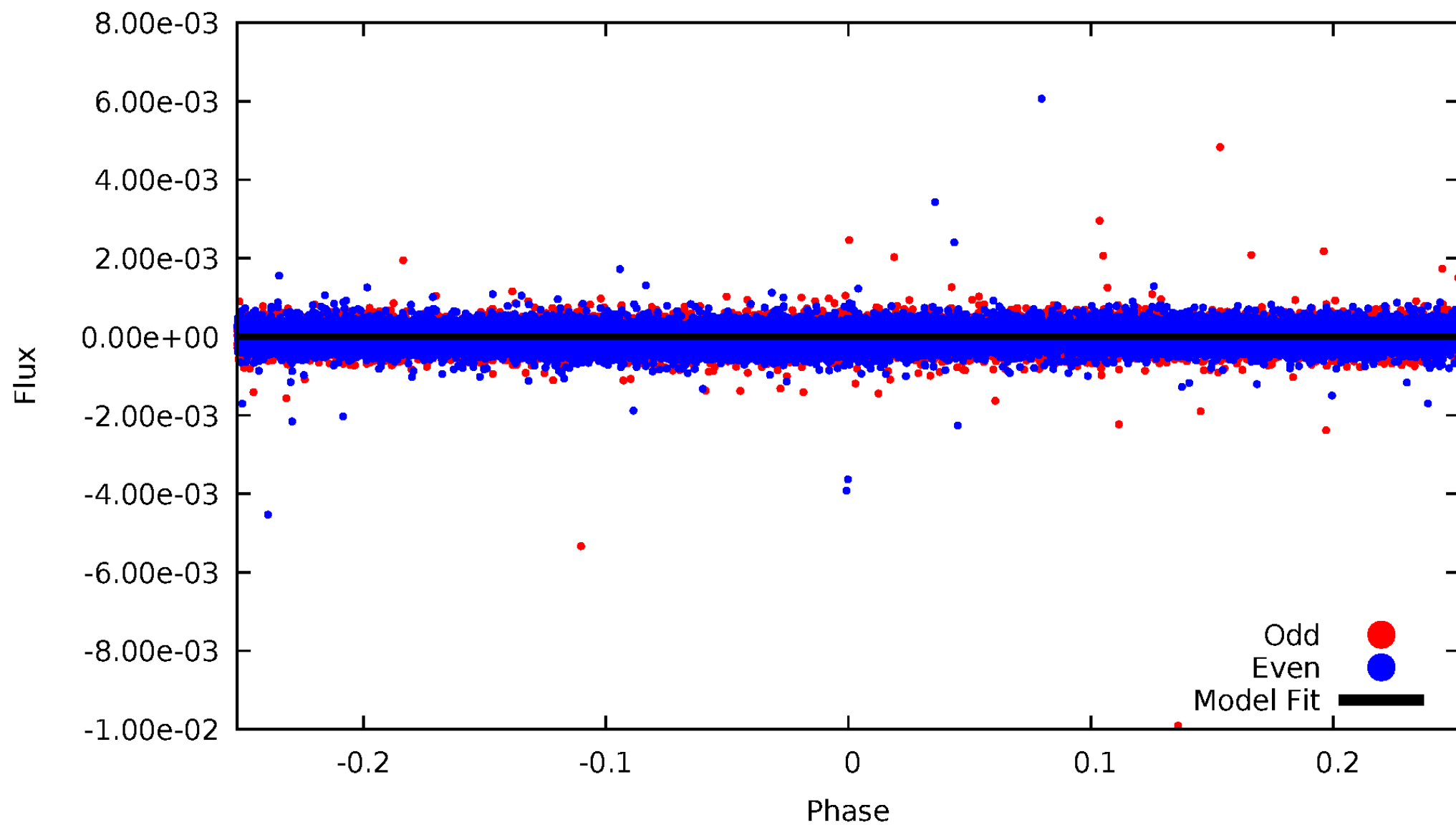


TCE 006864276-01



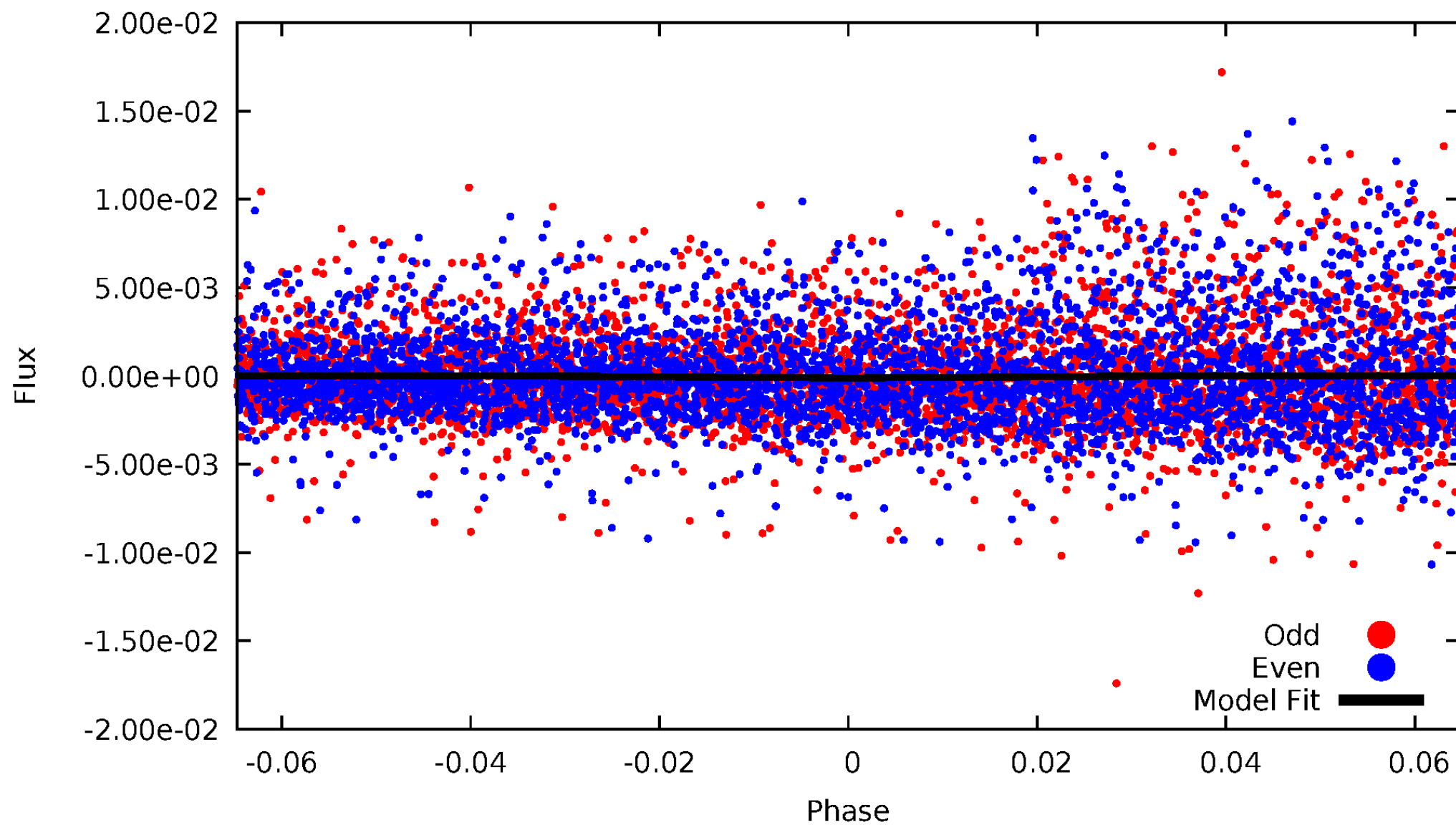
DV Odd/Even

TCE 006864276-01



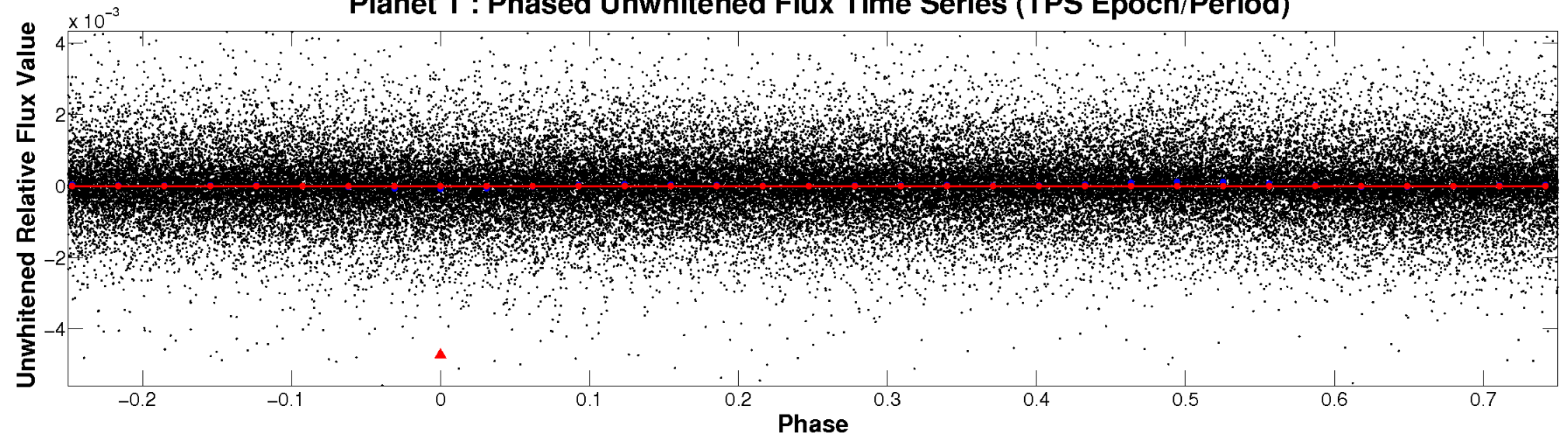
ALT Odd/Even

TCE 006864276-01

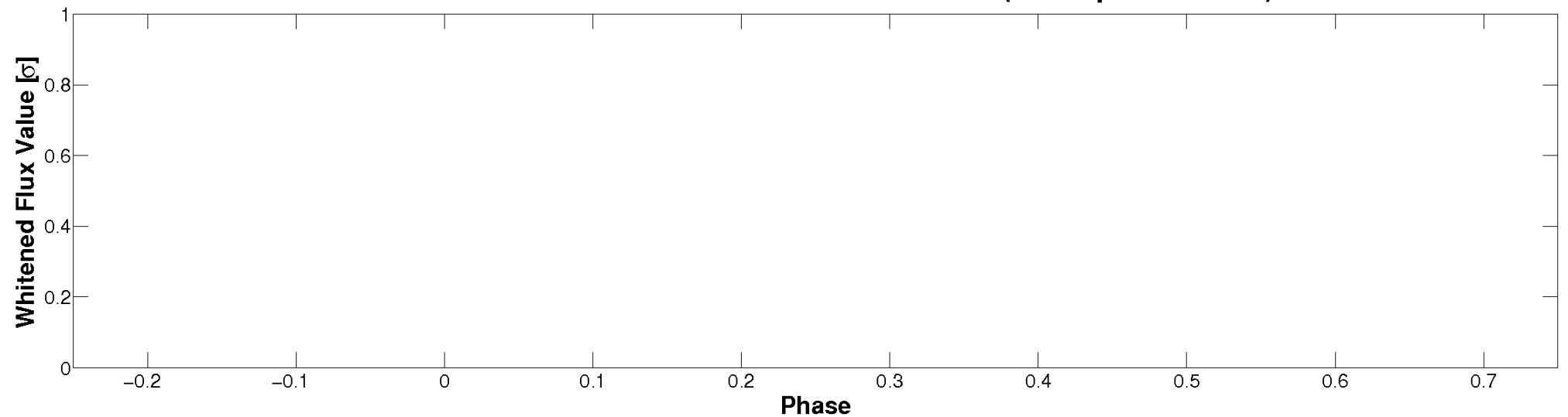


Non-Whitened Vs. Whitened Light Curve

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

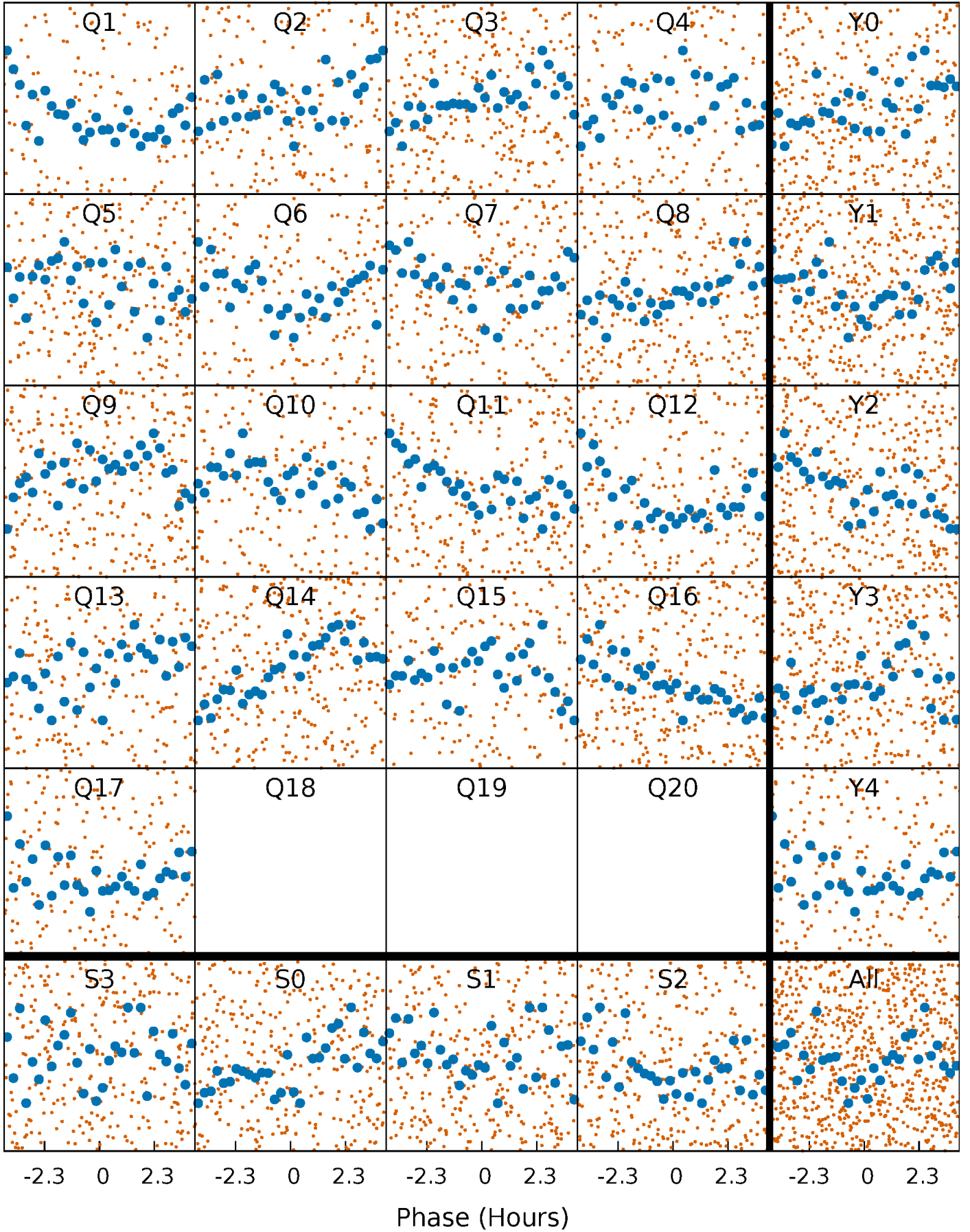


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



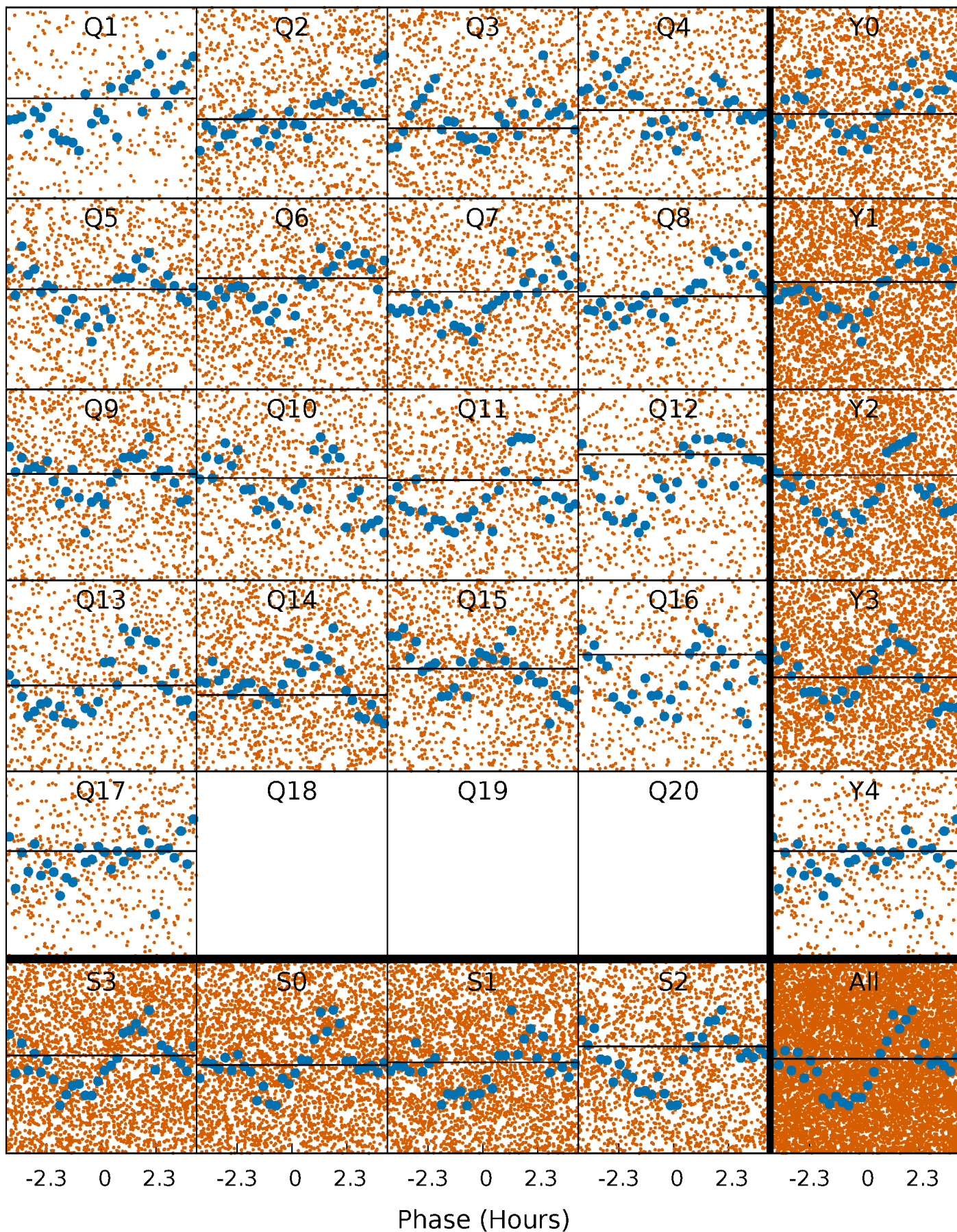
PDC Quarter-Phased Transit Curves

TCE 006864276-01 P= 0.661246 Days $T_0=131.521610$ (BKJD)



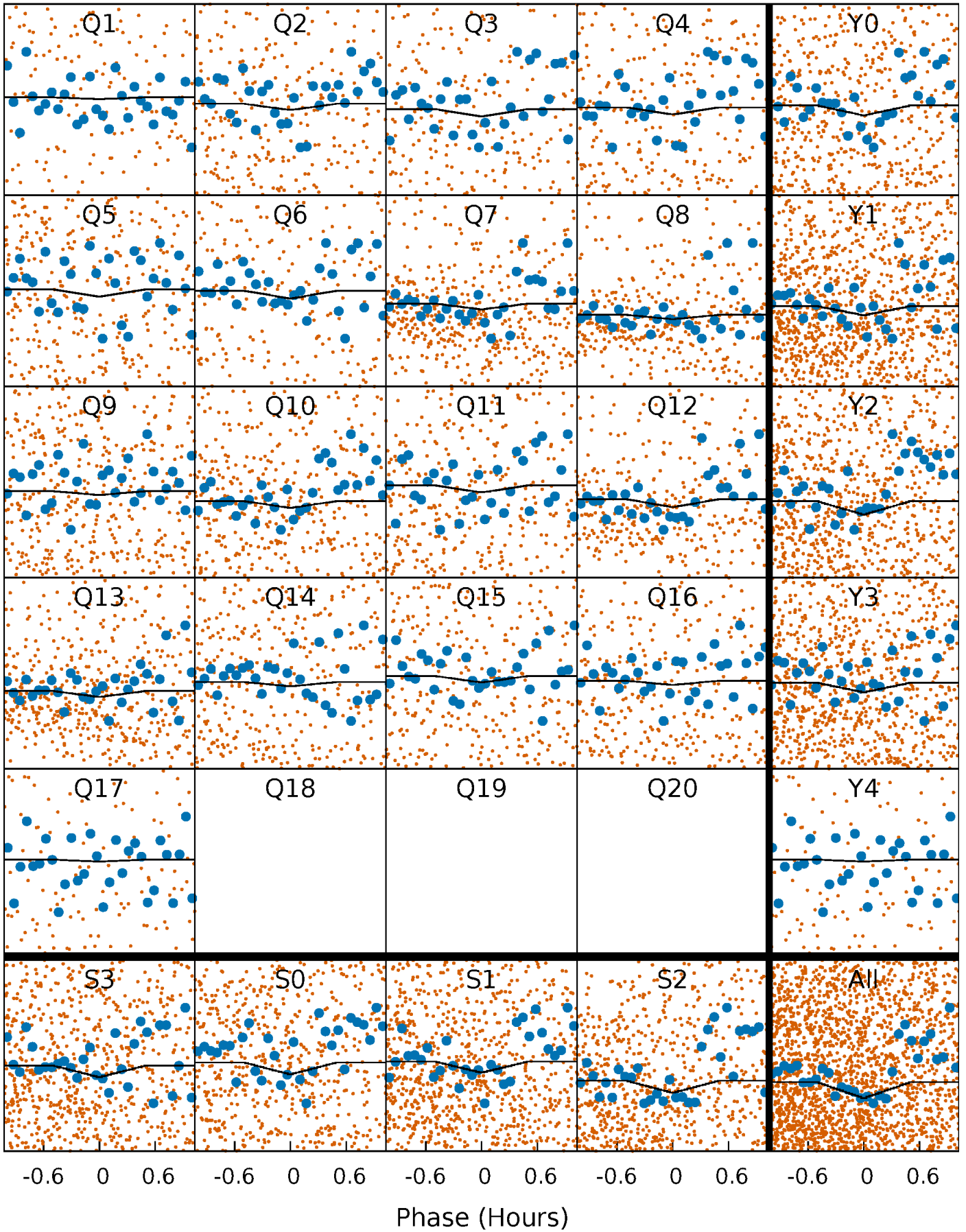
DV Quarter-Phased Transit Curves

TCE 006864276-01 P= 0.661246 Days $T_0=131.521610$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

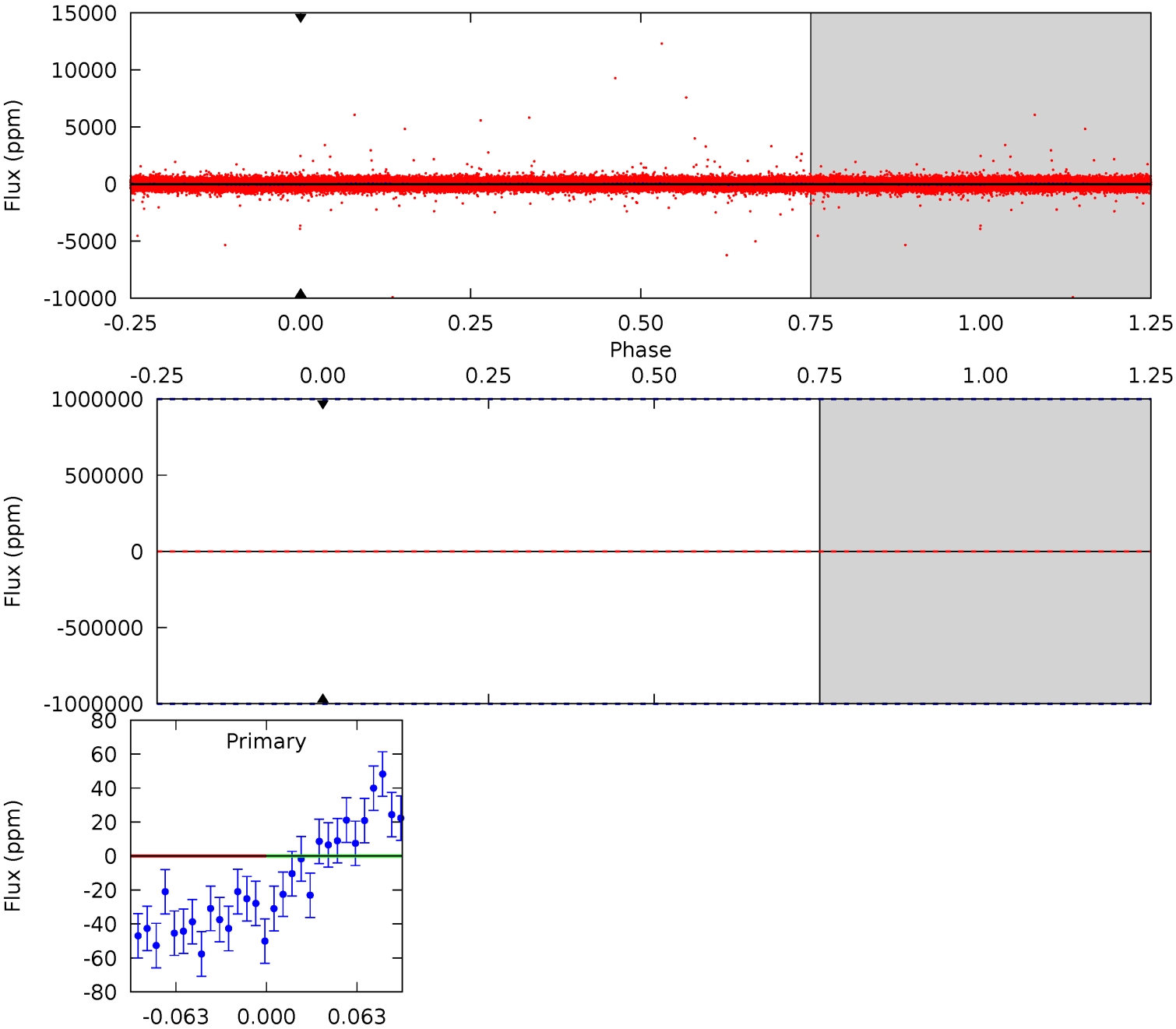
TCE 006864276-01 P= 0.661246 Days $T_0=132.118642$ (BKJD)



DV Model-Shift Uniqueness Test

006864276-01, P = 0.661246 Days, E = 130.860364 Days

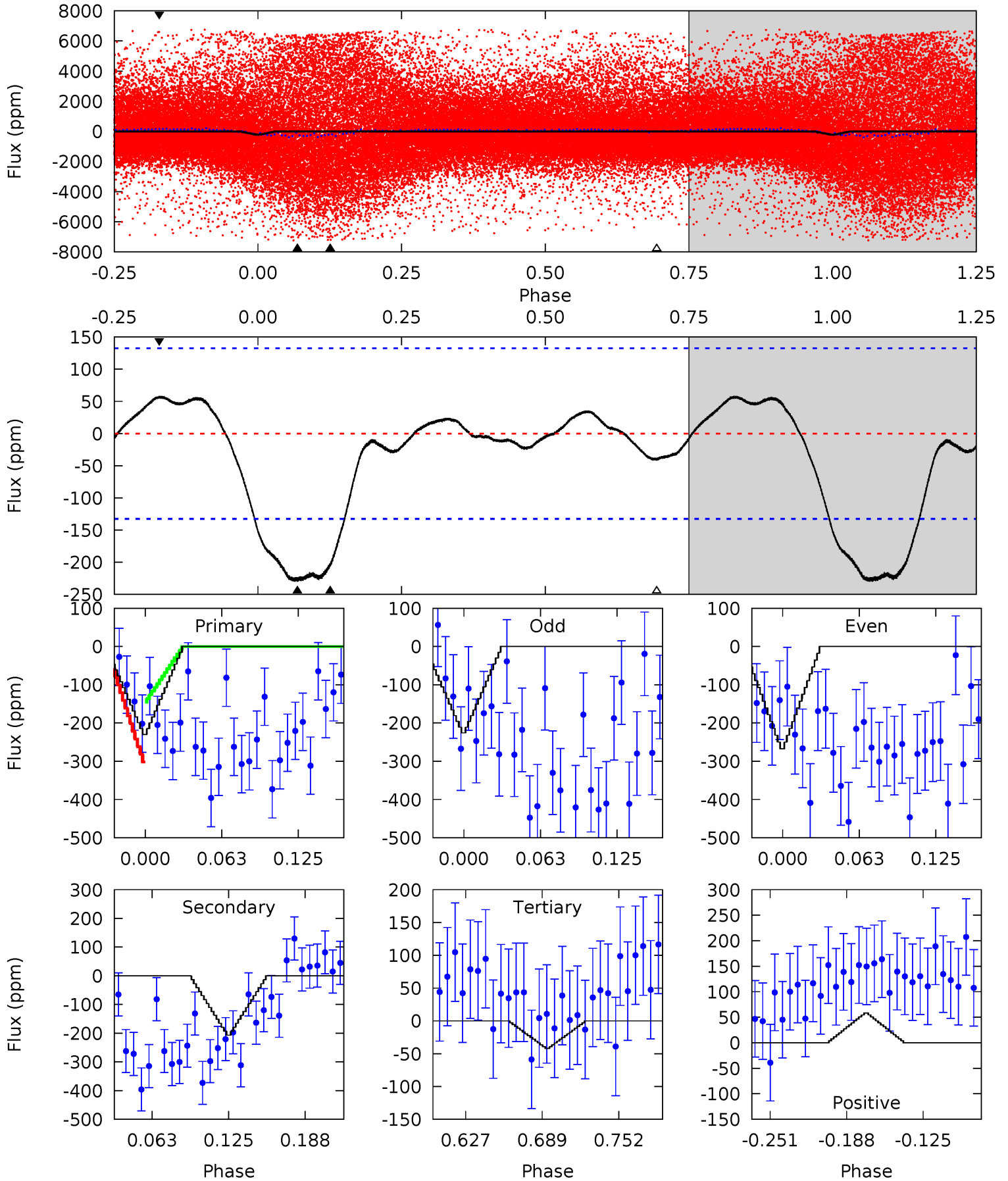
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006864276-01, P = 0.661246 Days, E = 131.457396 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.09	7.27	1.48	2.06	4.66	1.86	1.27	6.61	6.03	5.79	5.22	0.73	0.31	0.20	2.47



Stellar Parameters For KIC 006864276

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7284^{+228}_{-330}	$4.204^{+0.105}_{-0.195}$	$-0.120^{+0.200}_{-0.400}$	$1.579^{+0.531}_{-0.286}$	$1.457^{+0.219}_{-0.219}$	$0.522^{+0.265}_{-0.278}$
	+3%/-5%	+2%/-5%	+167%/-333%	+34%/-18%	+15%/-15%	+51%/-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 006864276-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$12.82^{+13.01}_{-8.75}$	4400^{+321}_{-280}	5540^{+35918}_{-37305}	$1.984^{+197.034}_{-129.803}$
Alt.	-207 ± 28	$13.36^{+13.85}_{-9.97}$	4391^{+384}_{-274}	-3317^{+9298}_{-533}	$0.186^{+2.438}_{-0.143}$

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

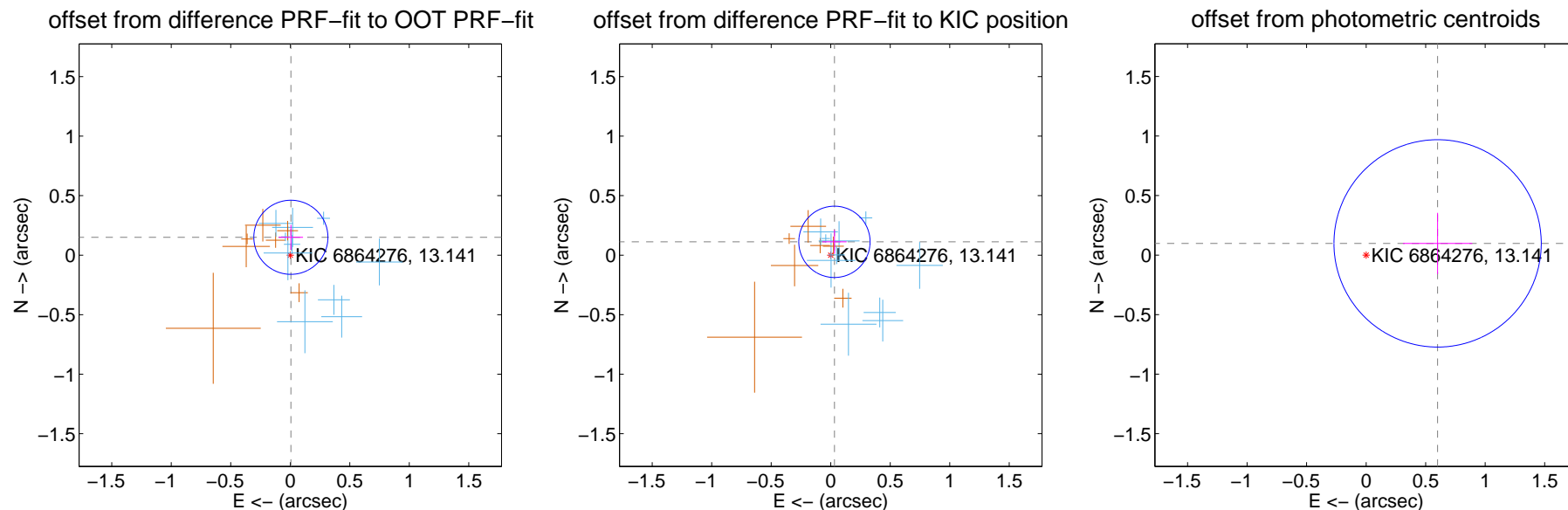
DV Centroid Data

Supplemental centroid analysis for 006864276-01. Kepler magnitude: 13.14. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

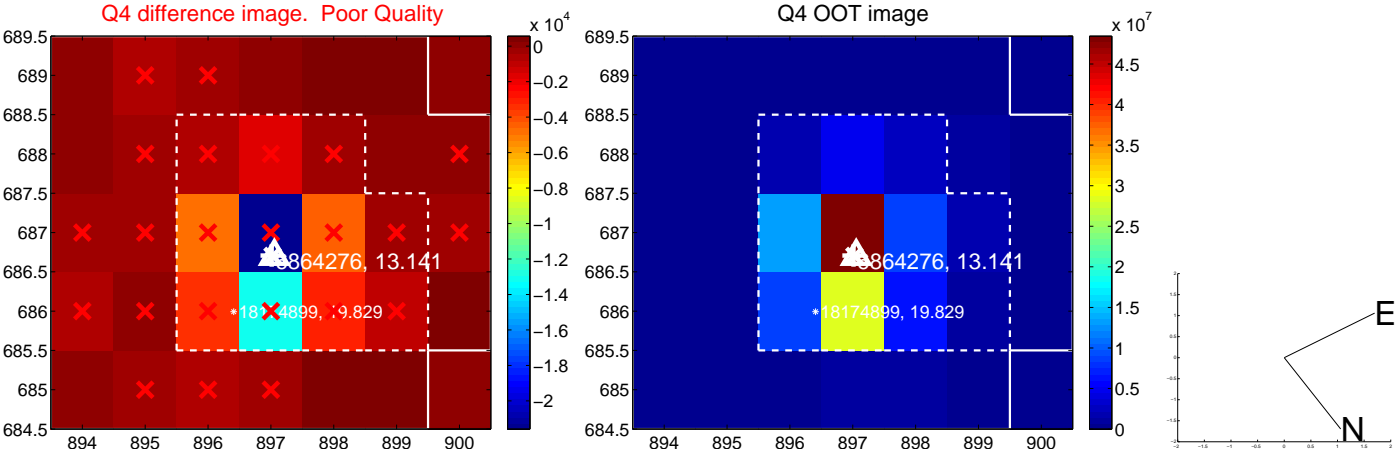
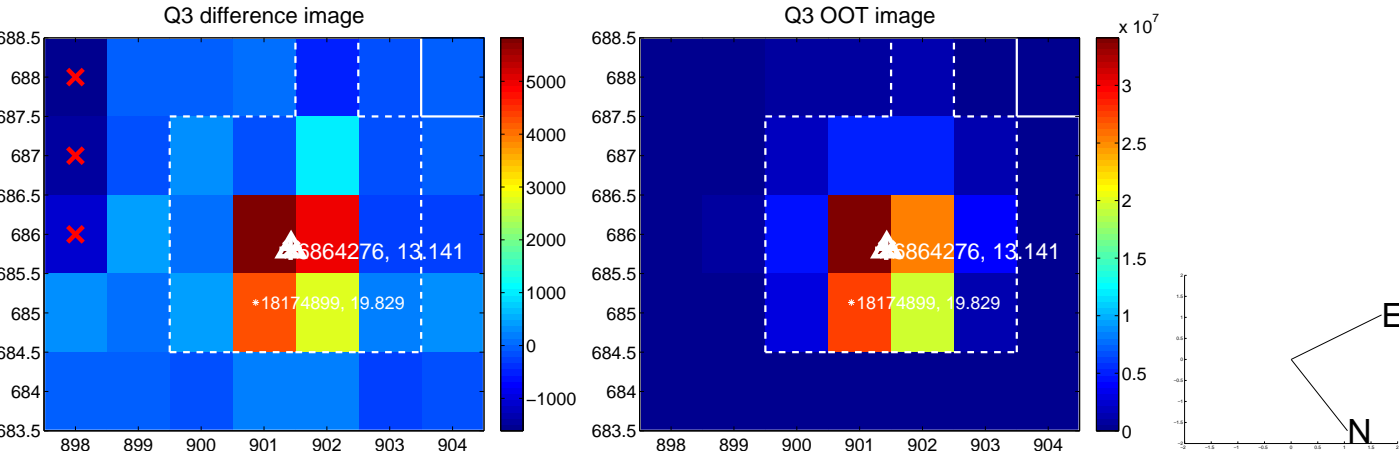
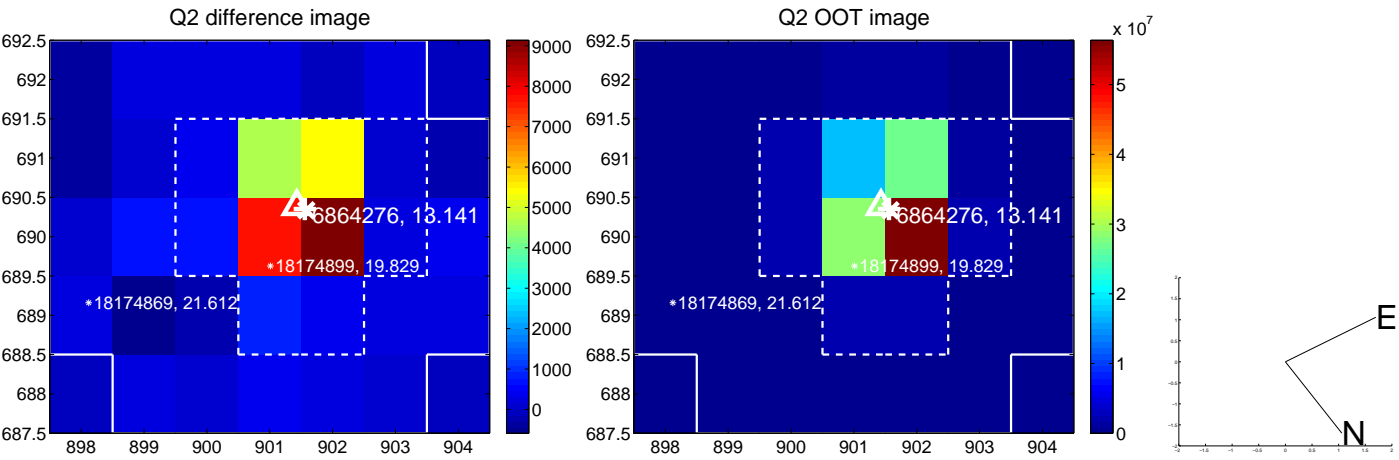
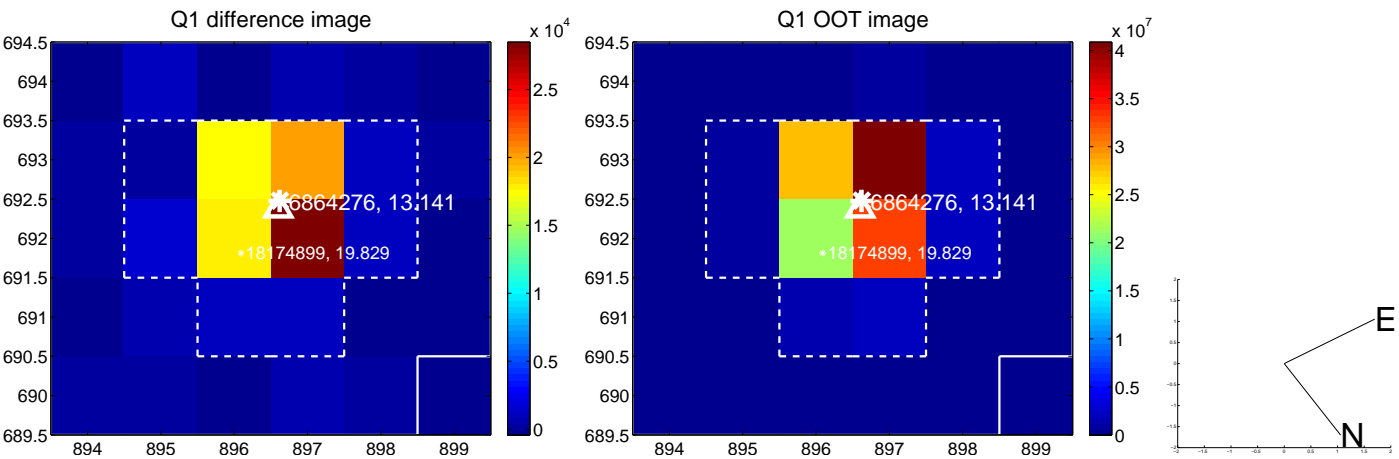
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.150 ± 0.104	1.45	-0.005 ± 0.102	0.150 ± 0.104
PRF-fit source offset from KIC position	0.116 ± 0.100	1.16	-0.031 ± 0.102	0.112 ± 0.100
photometric centroid source offset	0.61 ± 0.29	2.10	-0.60 ± 0.29	0.10 ± 0.26

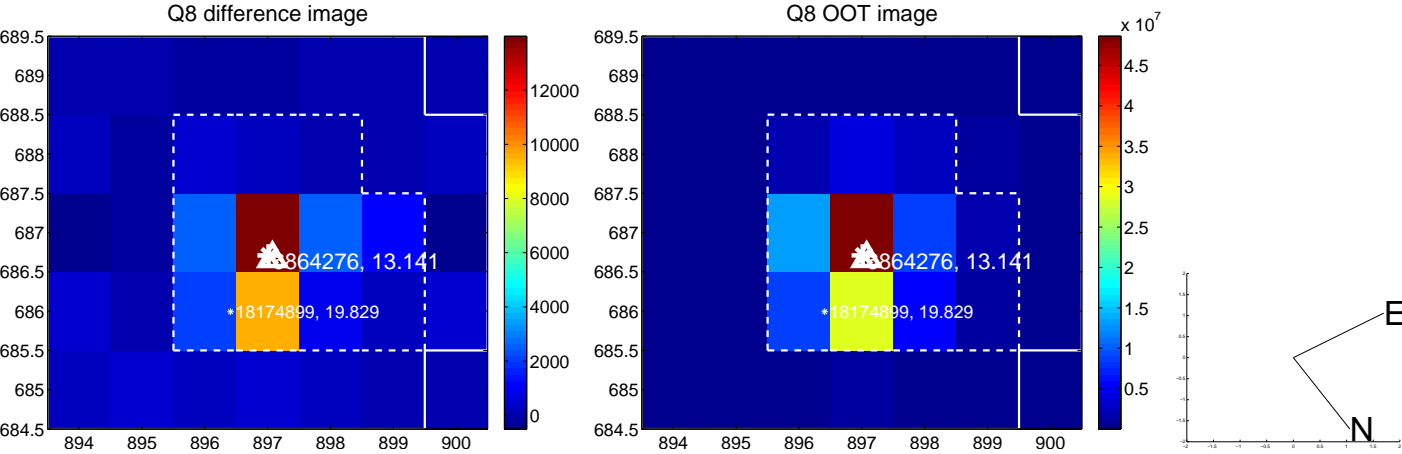
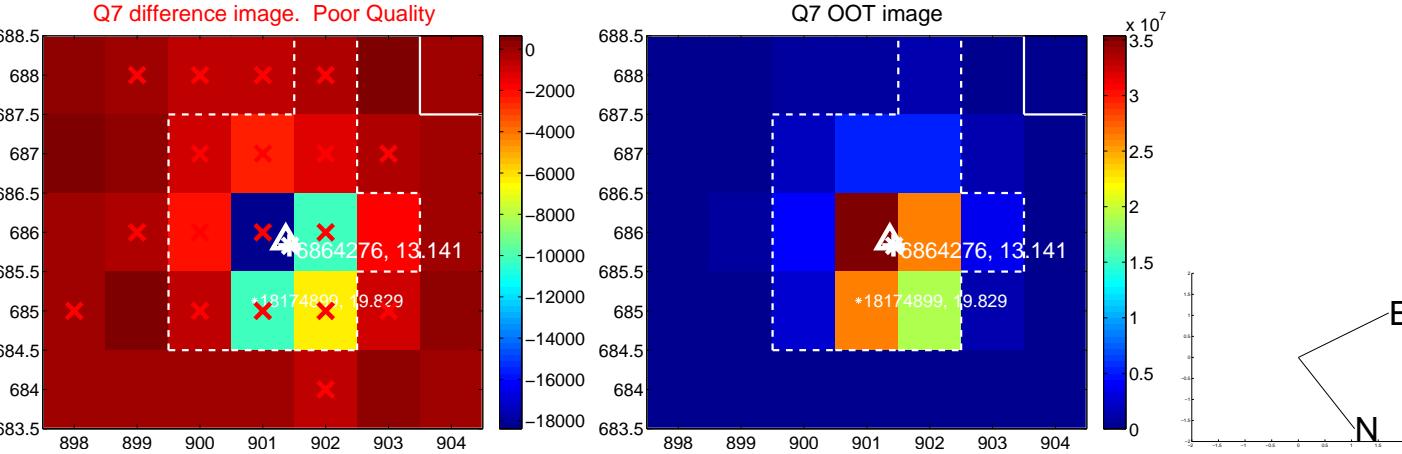
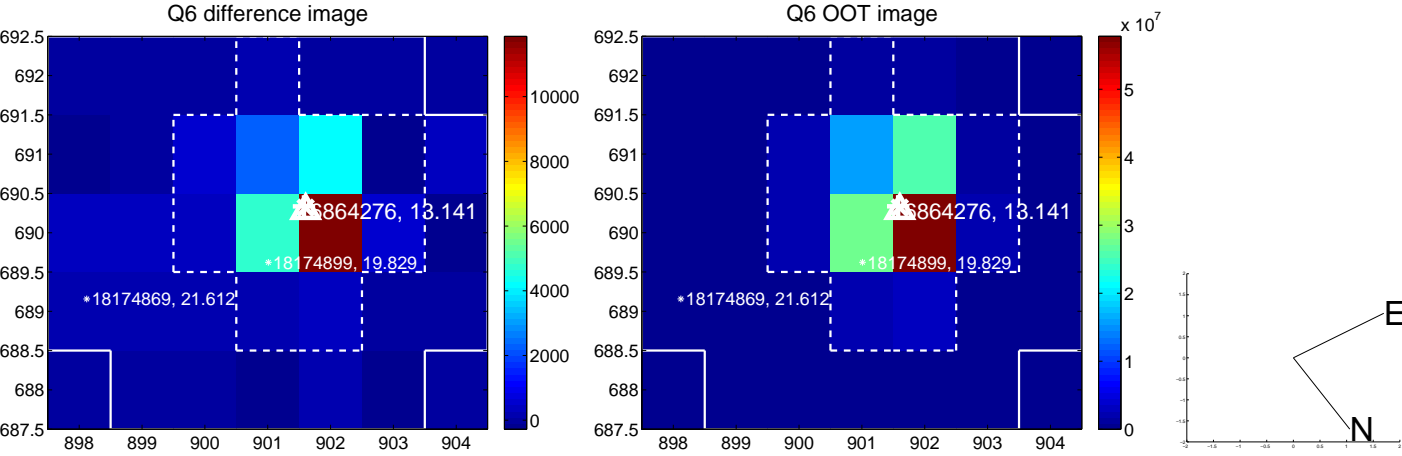
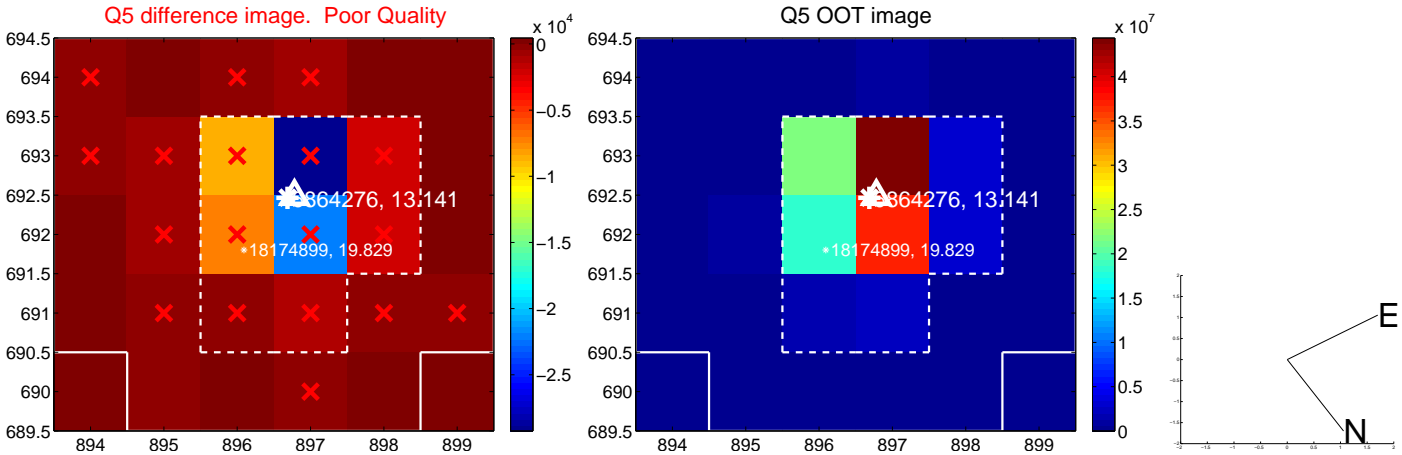


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

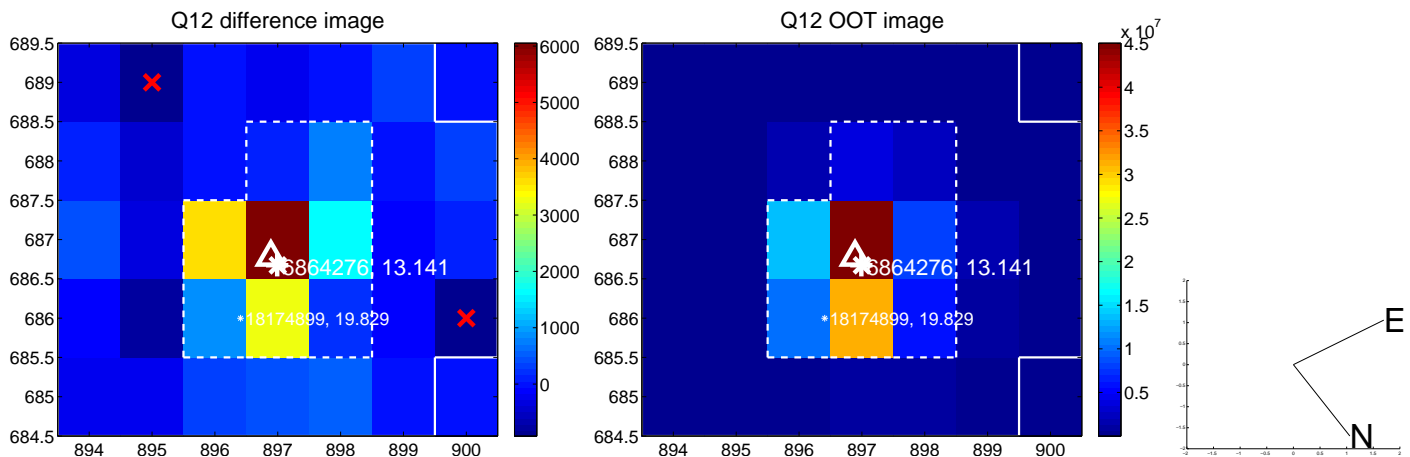
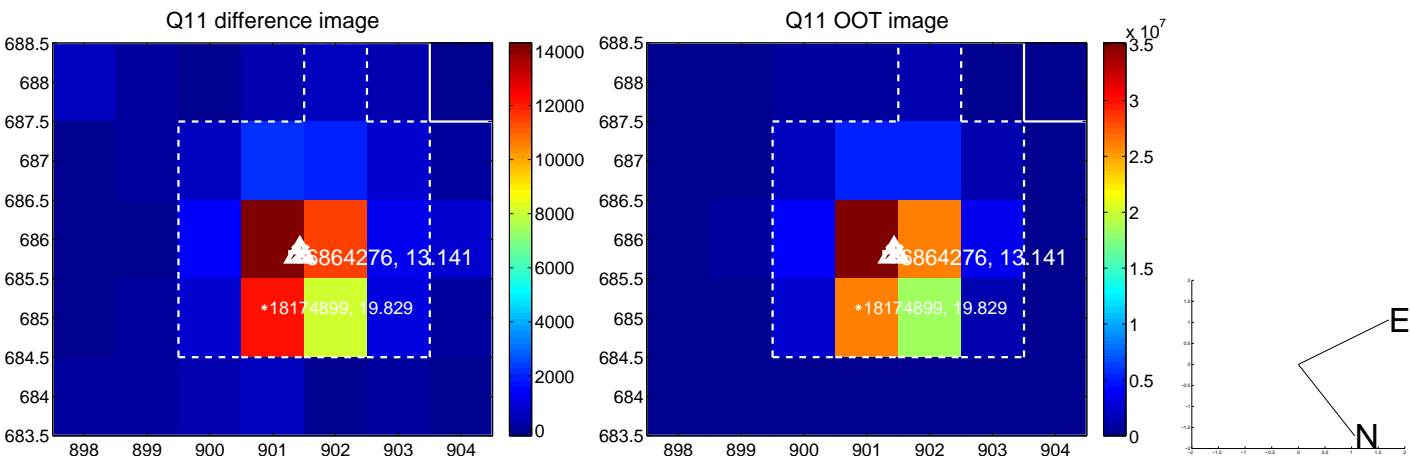
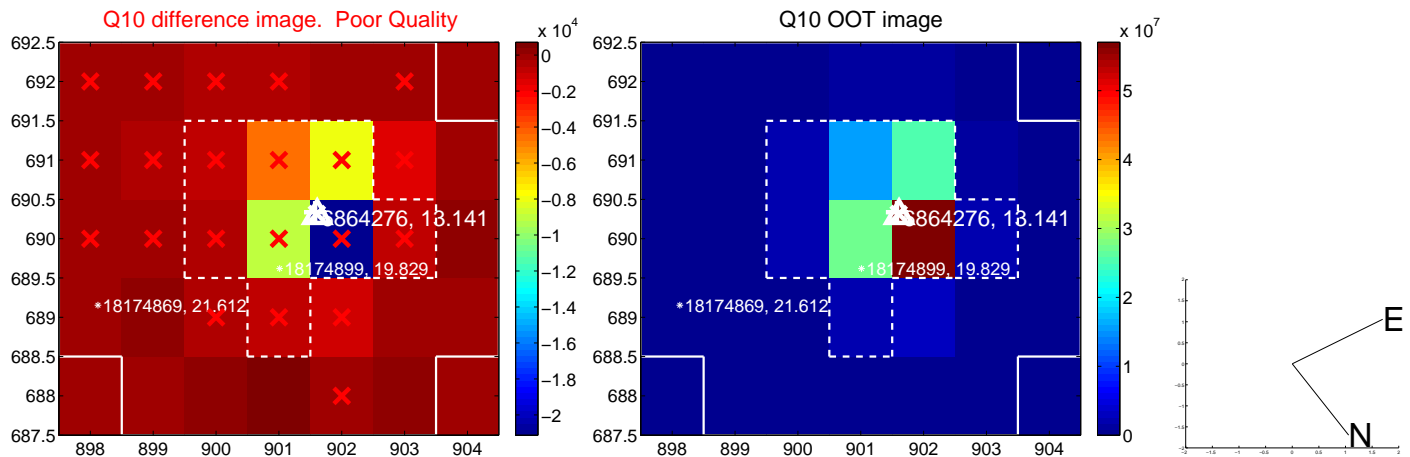
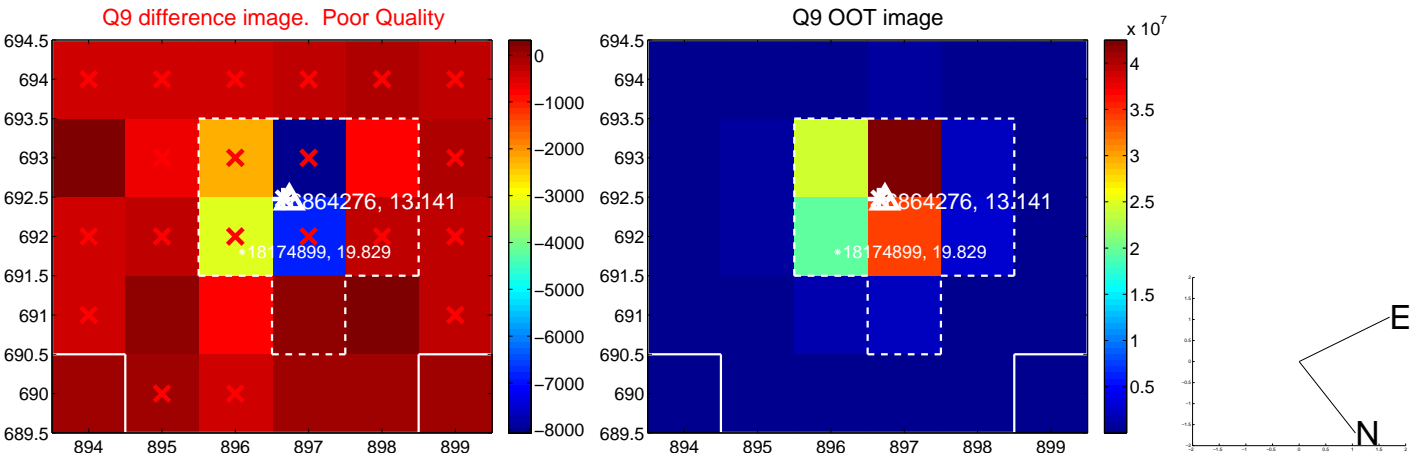
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



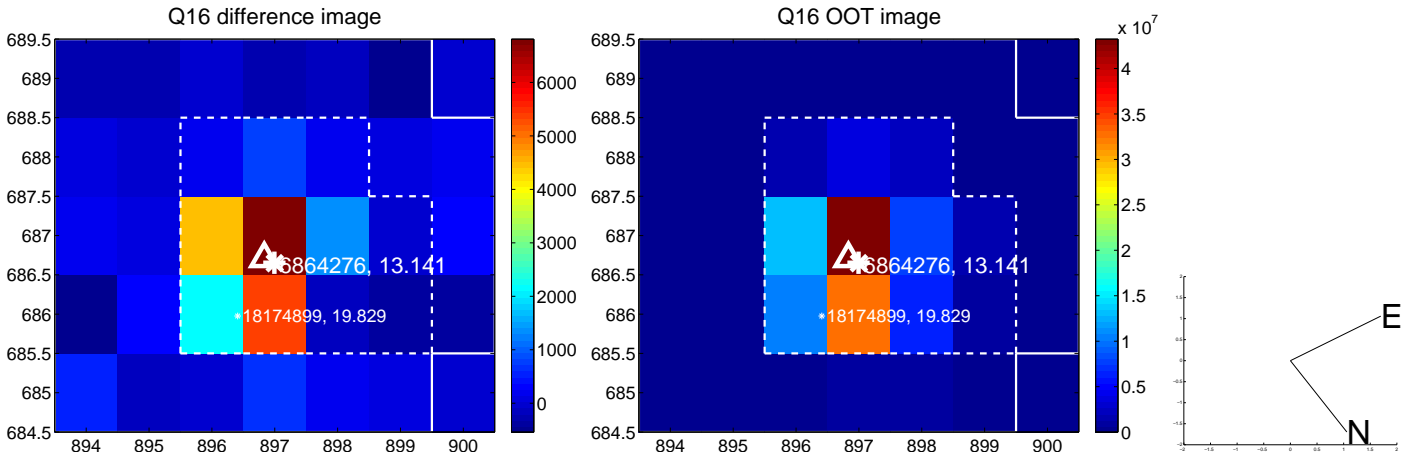
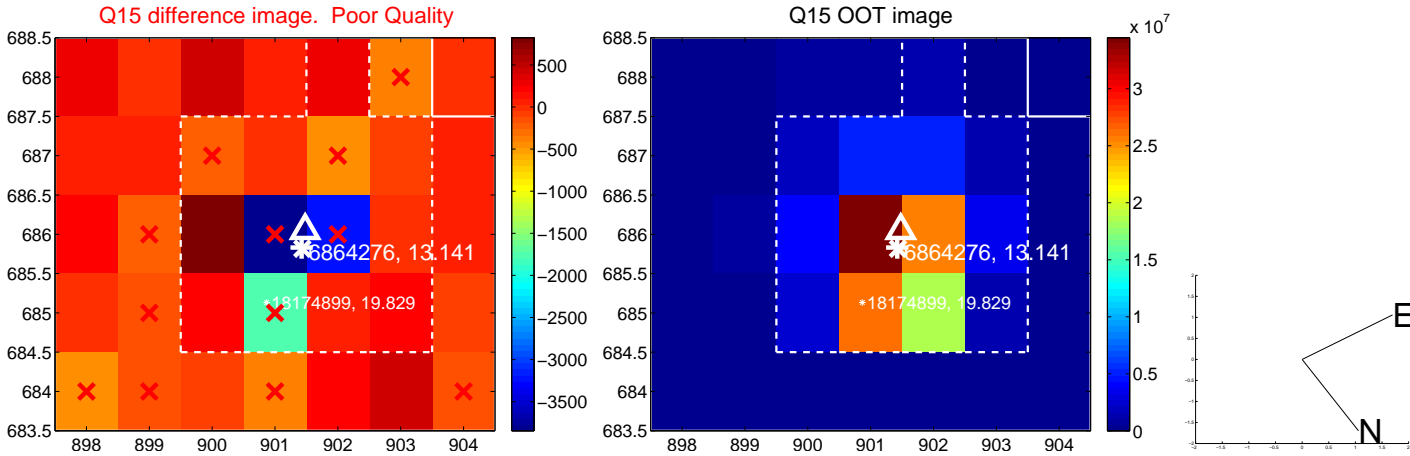
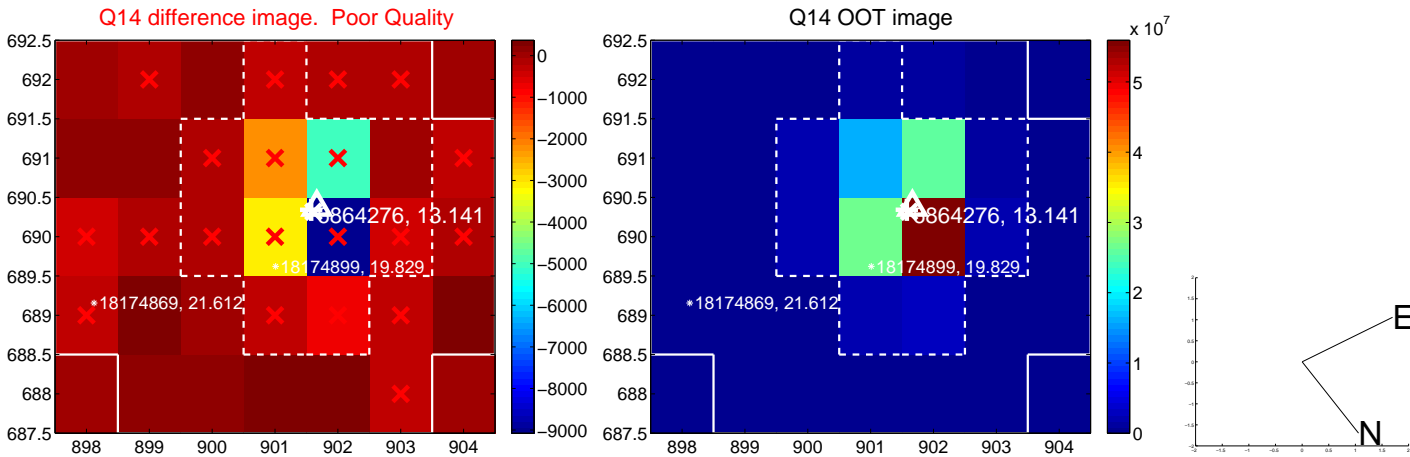
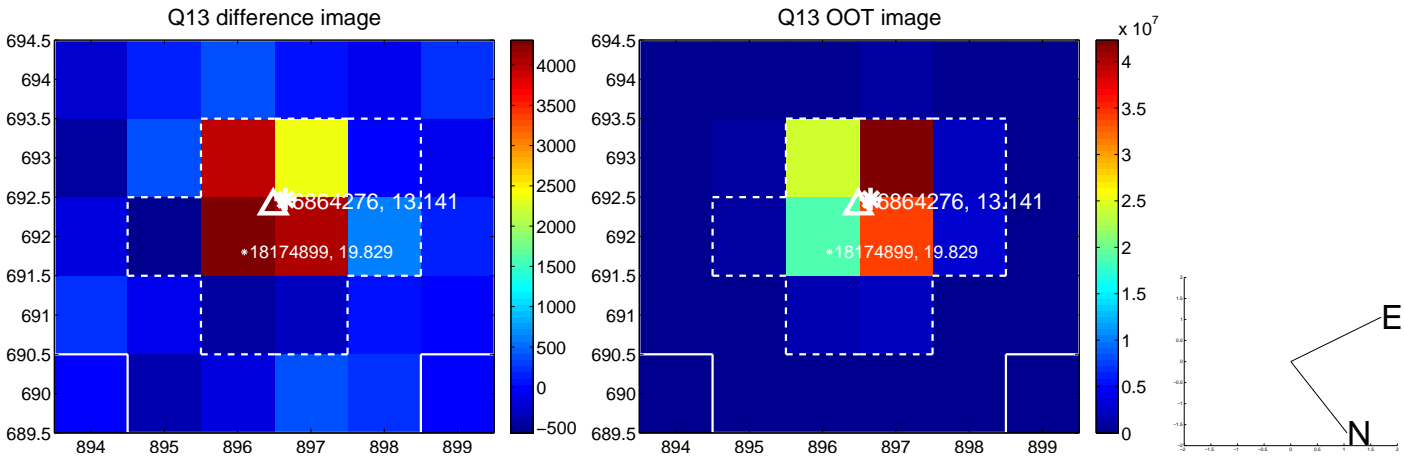
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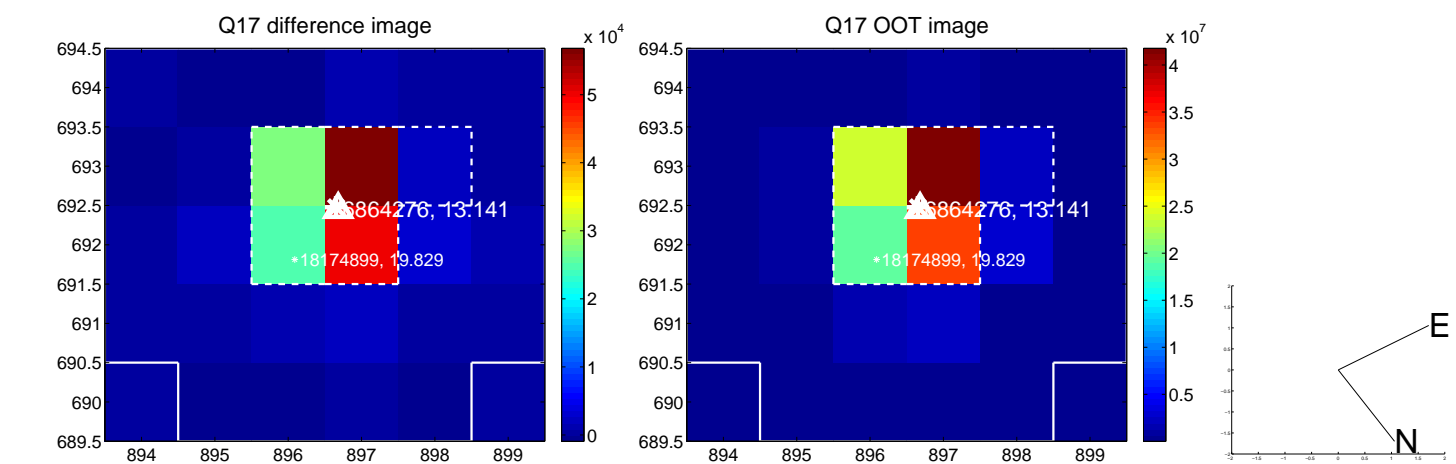
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



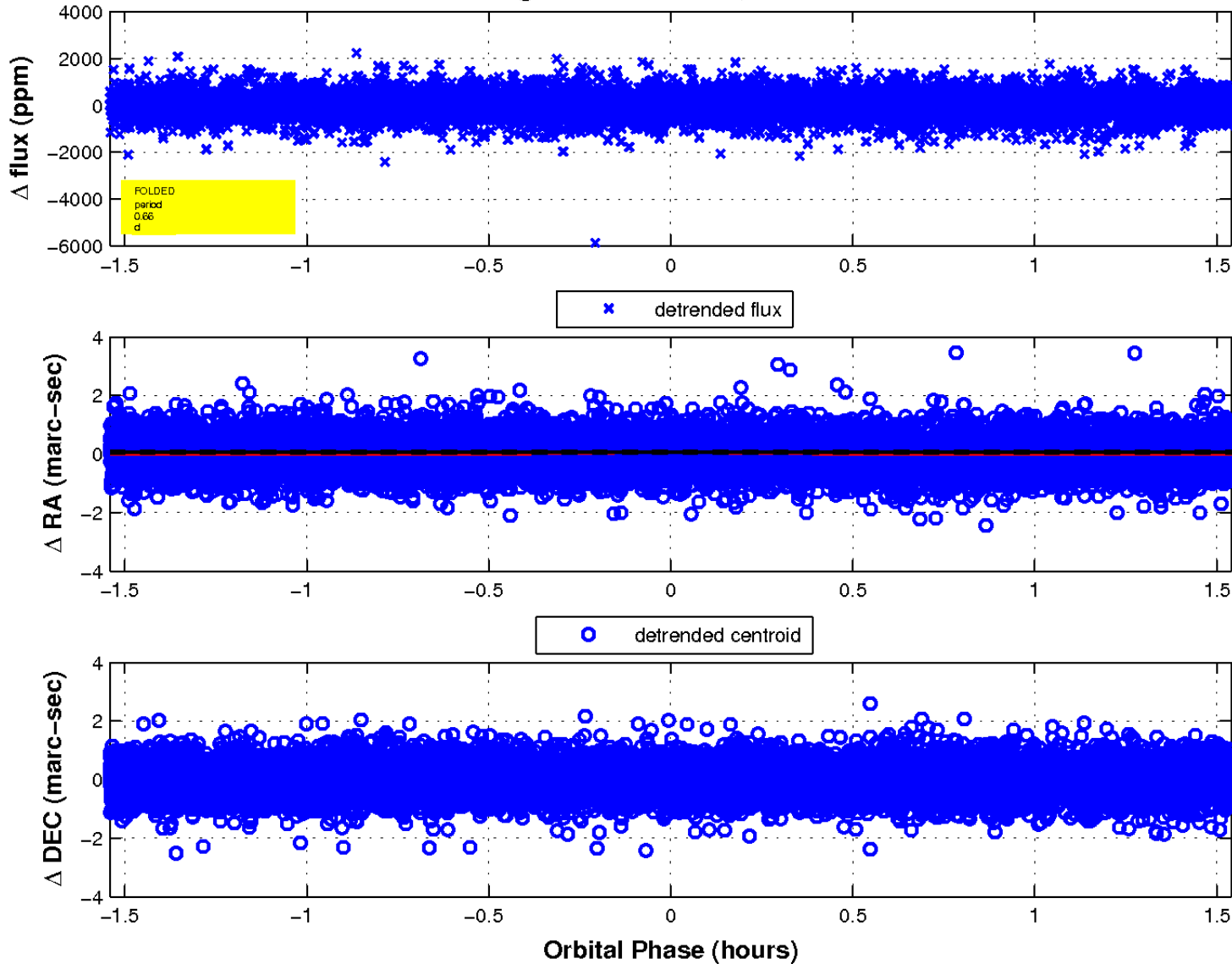
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

