

KIC 011597669

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})
011597669-01	OBS	No	3.037757	131.638277	3012.9	2.000	8.5	-1.0	0.17	3150	0.93	5.58

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011597669-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_POS_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.

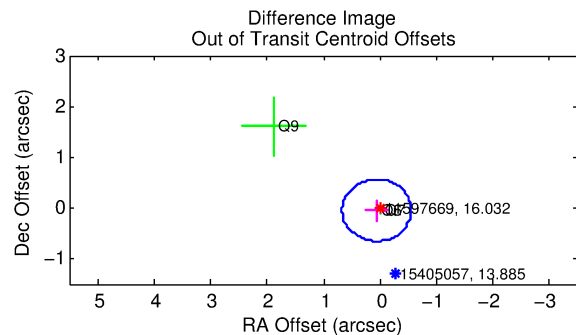
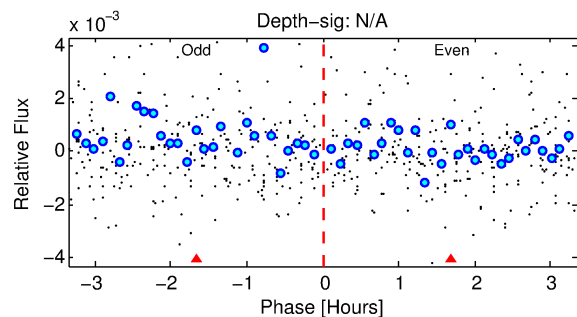
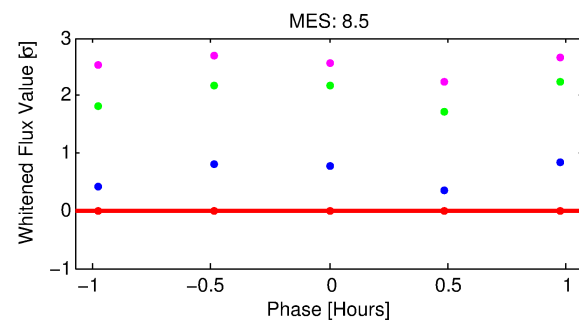
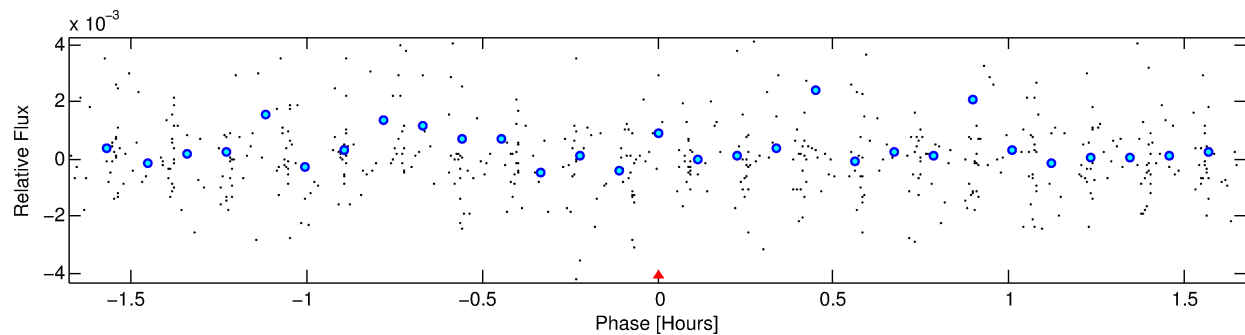
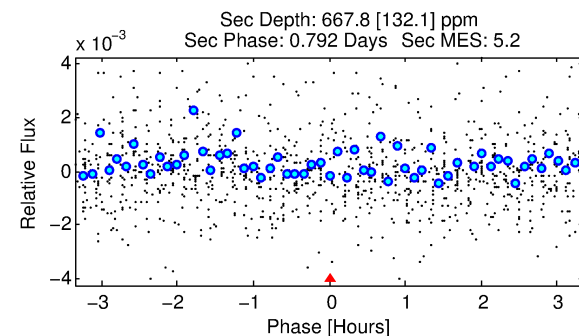
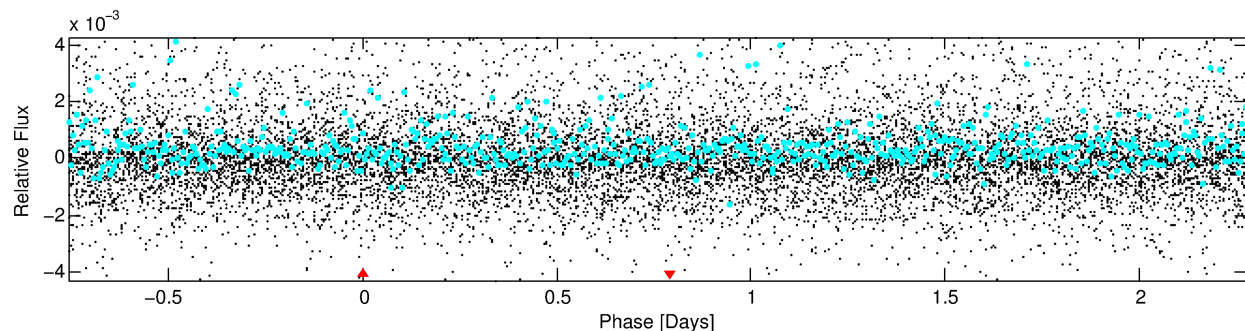
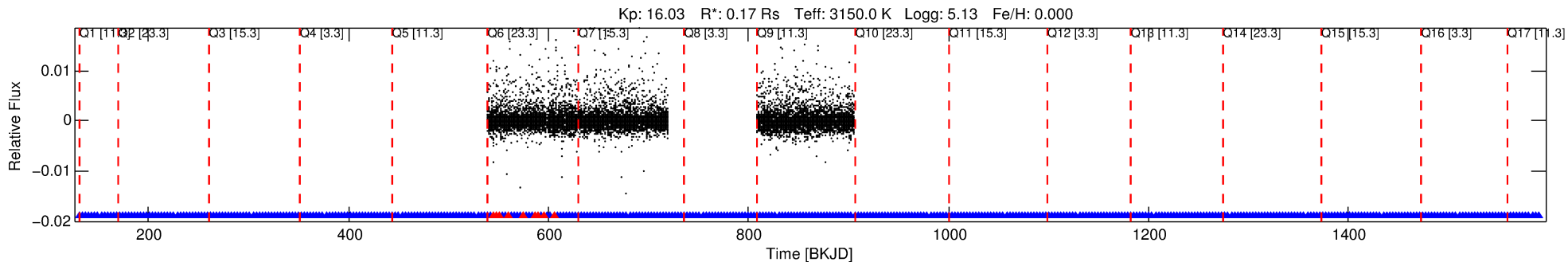
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011597669-01

No Significant Match Found

DV One-Page Summary

KIC: 11597669 Candidate: 1 of 1 Period: 3.038 d



TPS TCE Results:

Period = 3.03776 d
Epoch = 131.6383 BKJD

DV fit results are unavailable

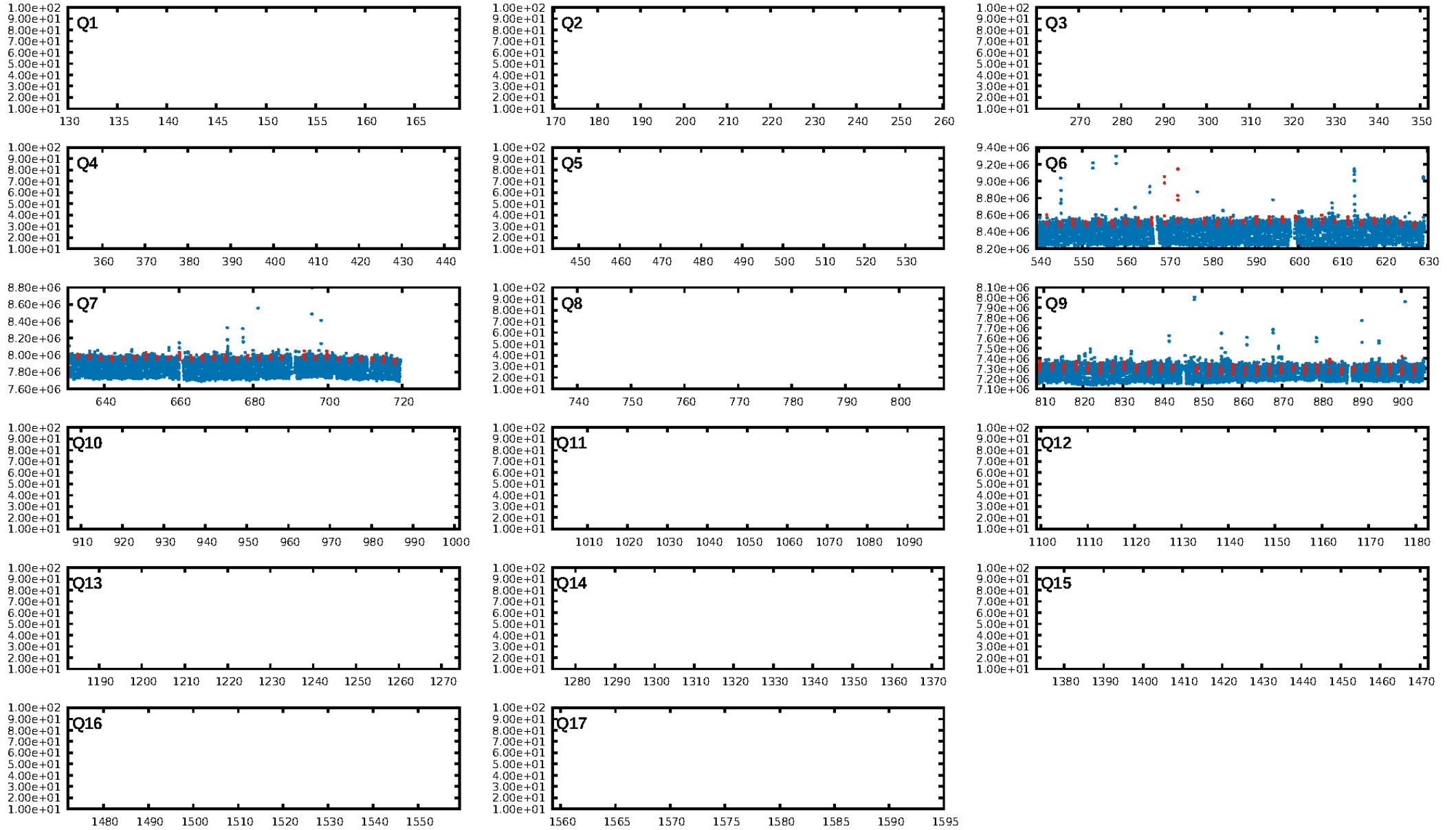
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.94e-10
RollingBand-fgt: 0.90 [79/88]
GhostDiagnostic-chr: 6.08
Centroid-sig: N/A
Centroid-so: 38.171 arcsec [0.44σ]
OotOffset-rm: 0.079 arcsec [0.39σ]
KicOffset-rm: 1.586 arcsec [3.06σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

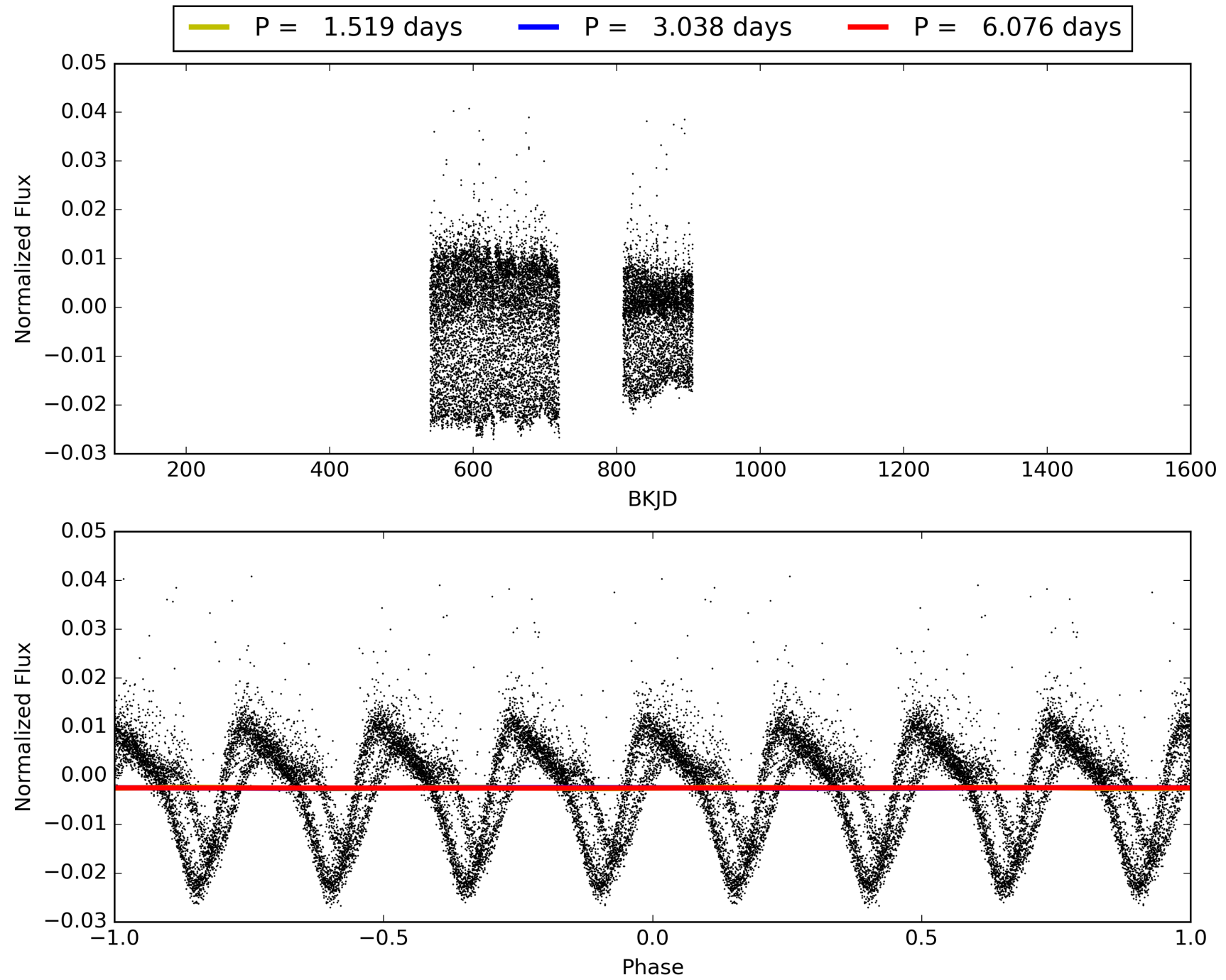
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 18:25:18 Z

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

TCE 011597669-01, PDC Light Curves

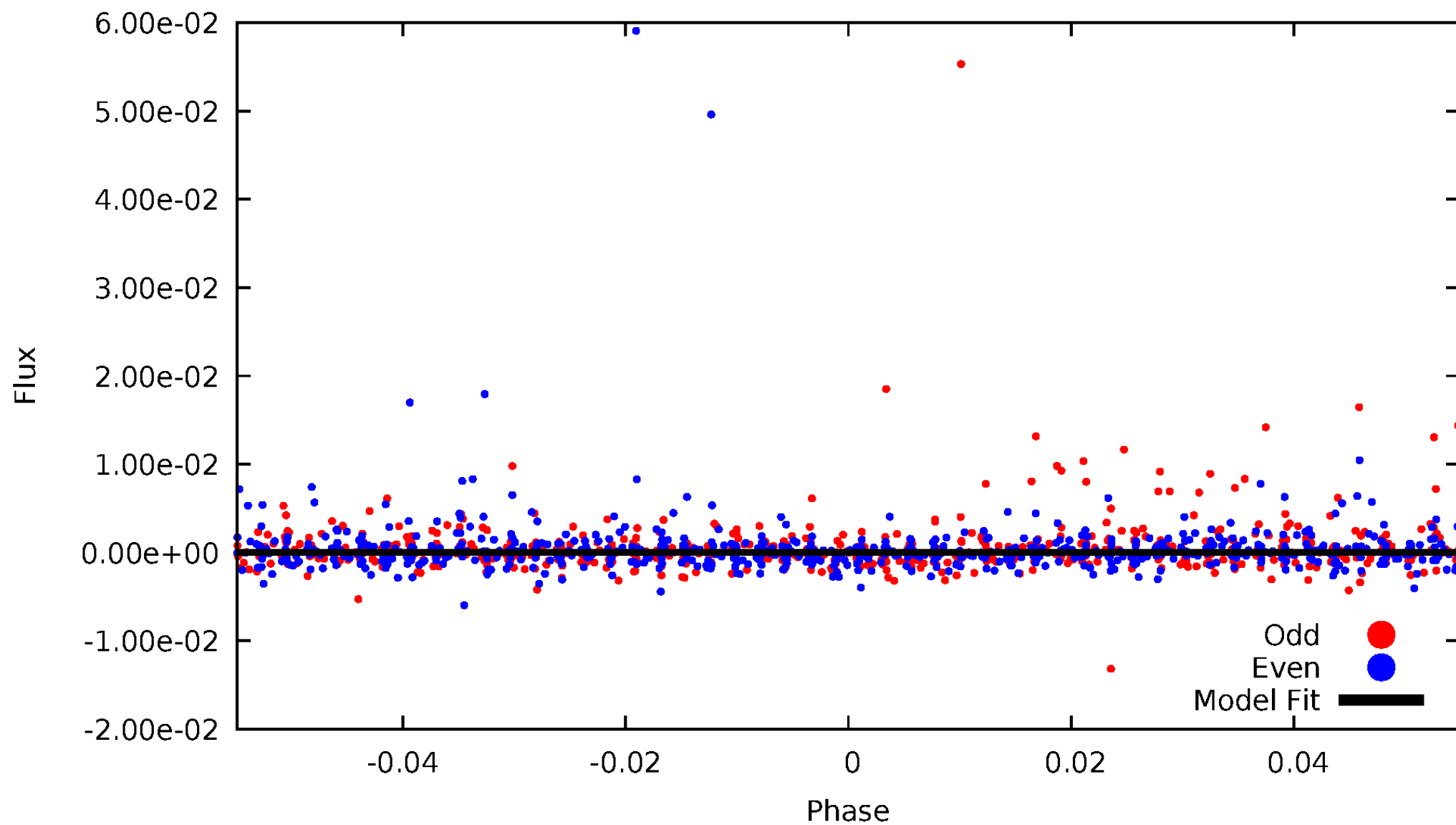


TCE 011597669-01



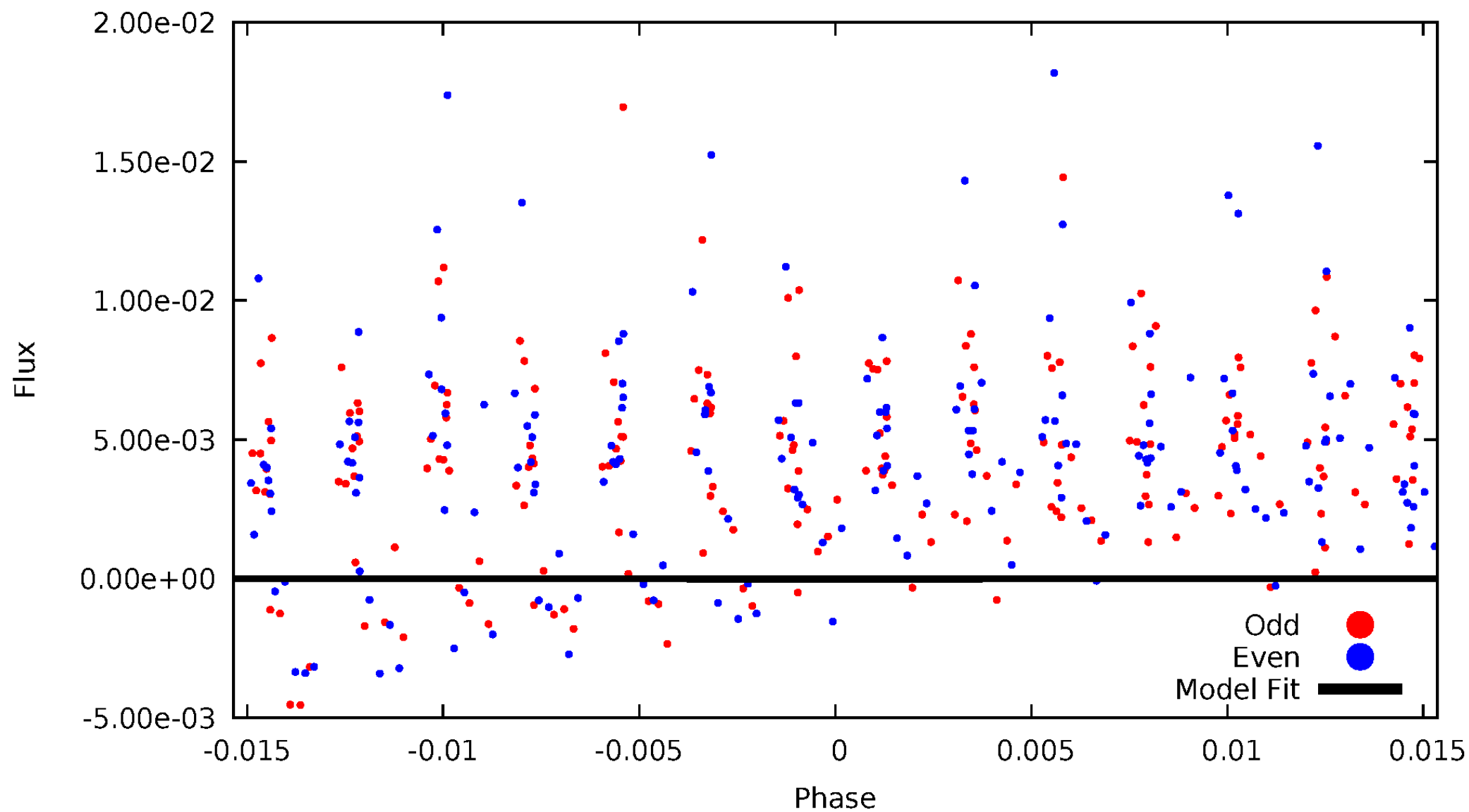
DV Odd/Even

TCE 011597669-01



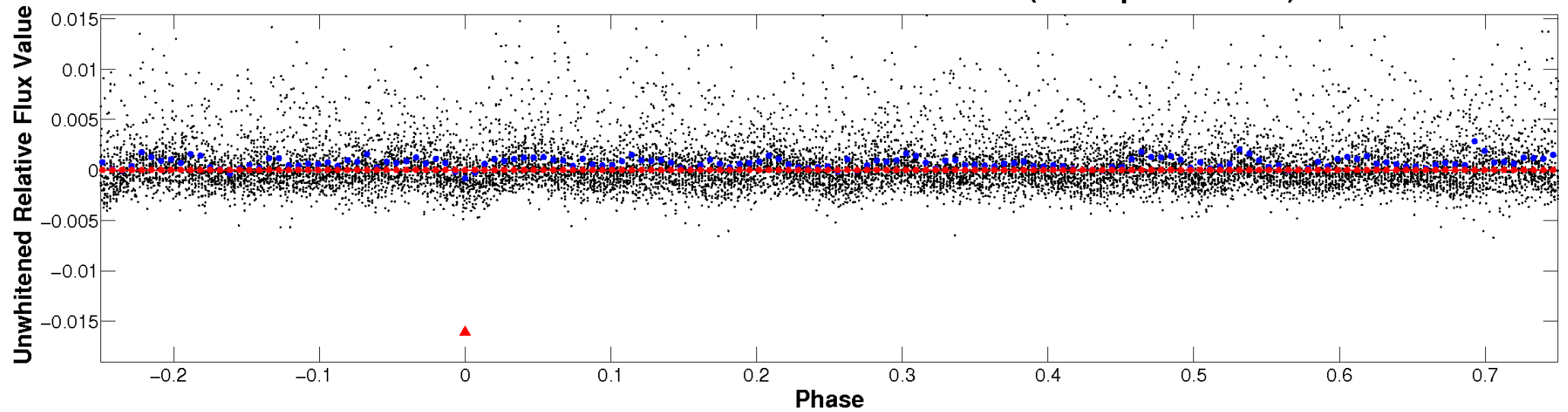
ALT Odd/Even

TCE 011597669-01



Non-Whitened Vs. Whitened Light Curve

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

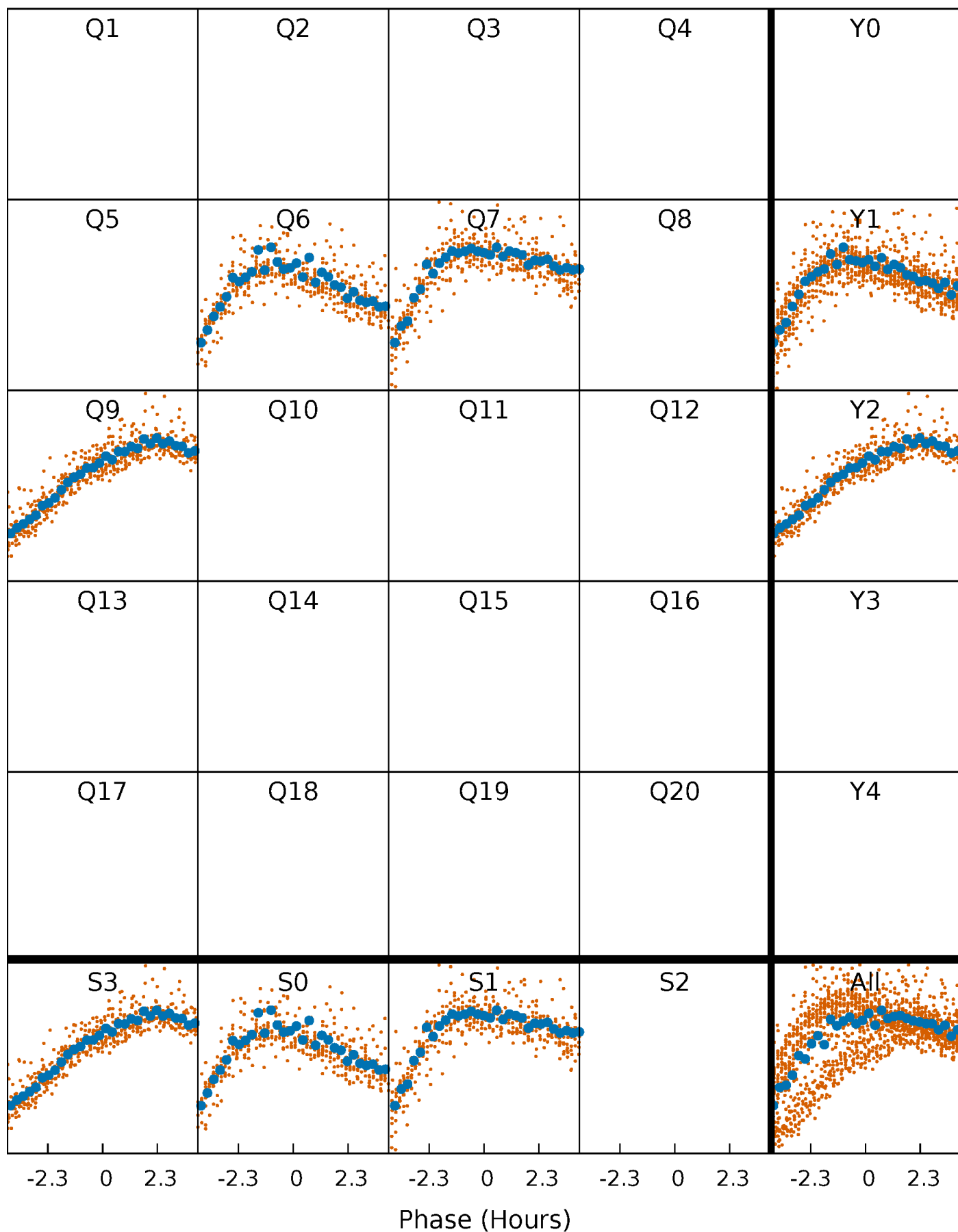


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011597669-01 P= 3.037757 Days $T_0=131.638277$ (BKJD)



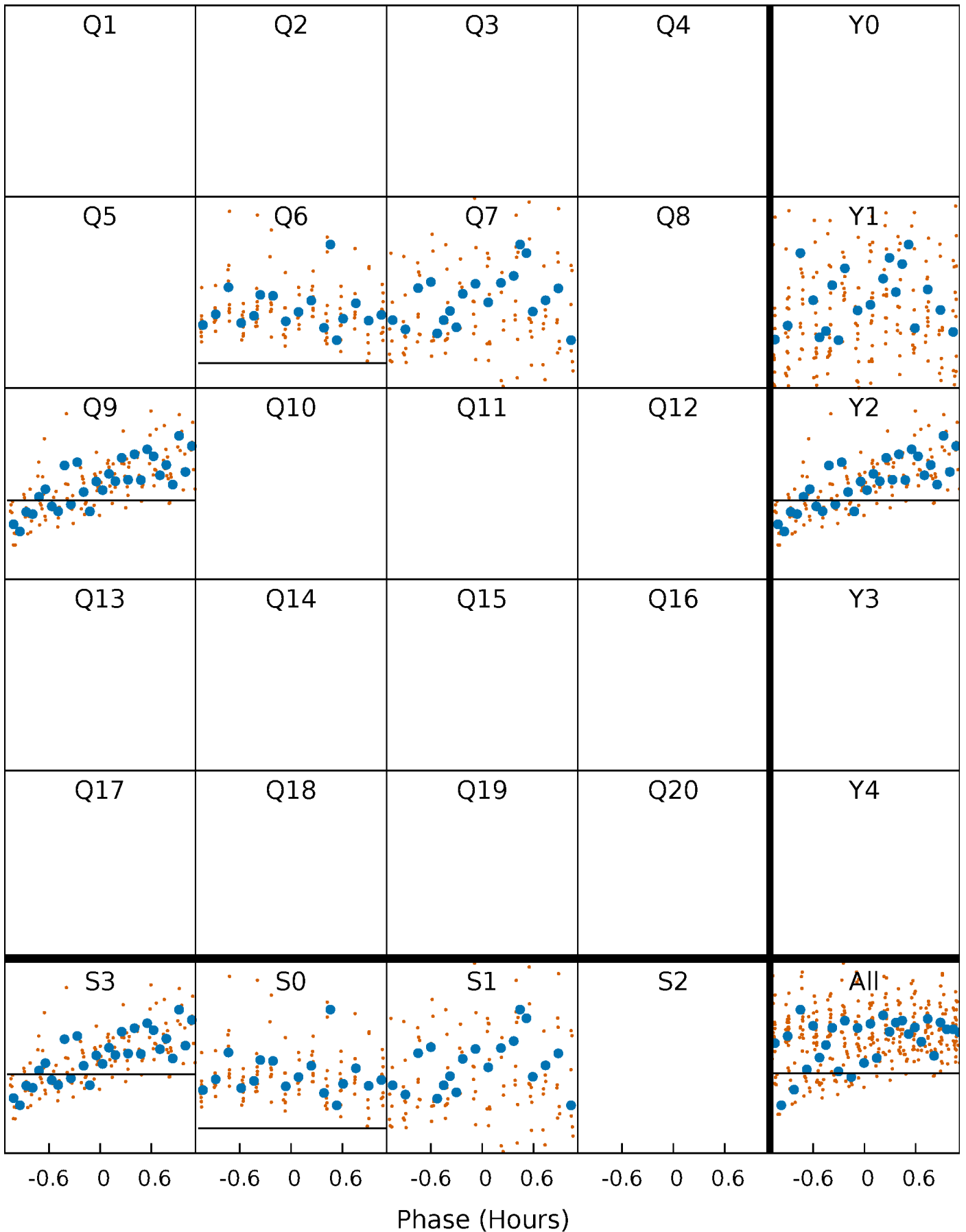
DV Quarter-Phased Transit Curves

TCE 011597669-01 P= 3.037757 Days $T_0=131.638277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

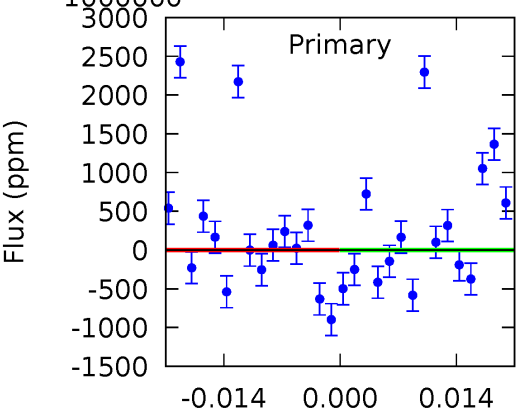
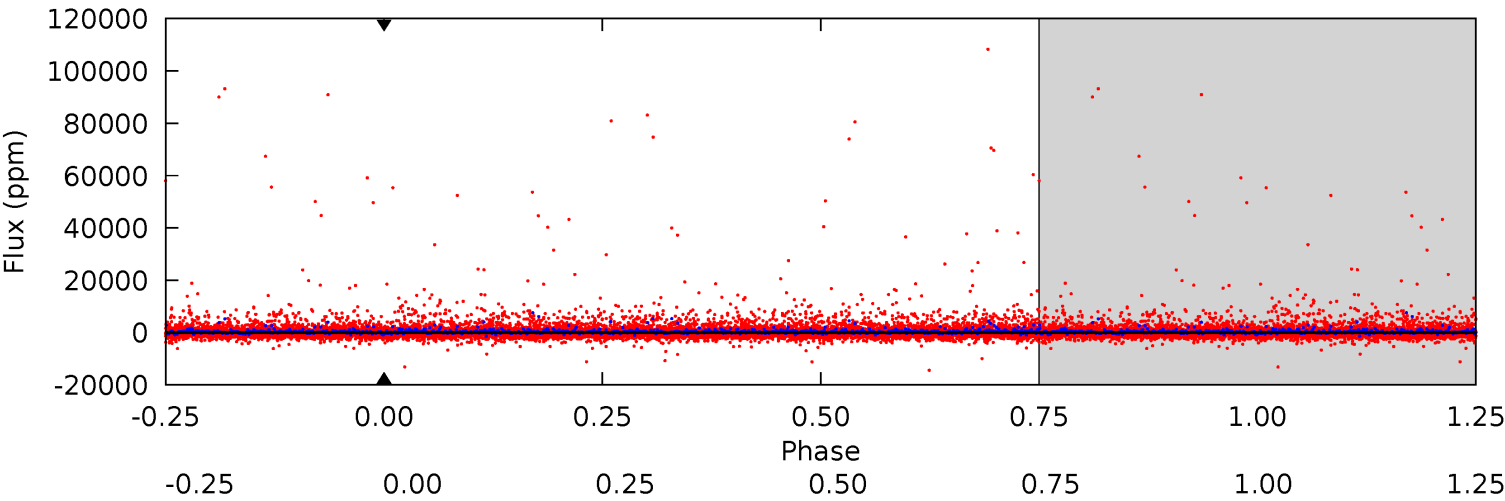
TCE 011597669-01 $P = 3.037757$ Days $T_0 = 131.563048$ (BKJD)



DV Model-Shift Uniqueness Test

011597669-01, P = 3.037757 Days, E = 131.638277 Days

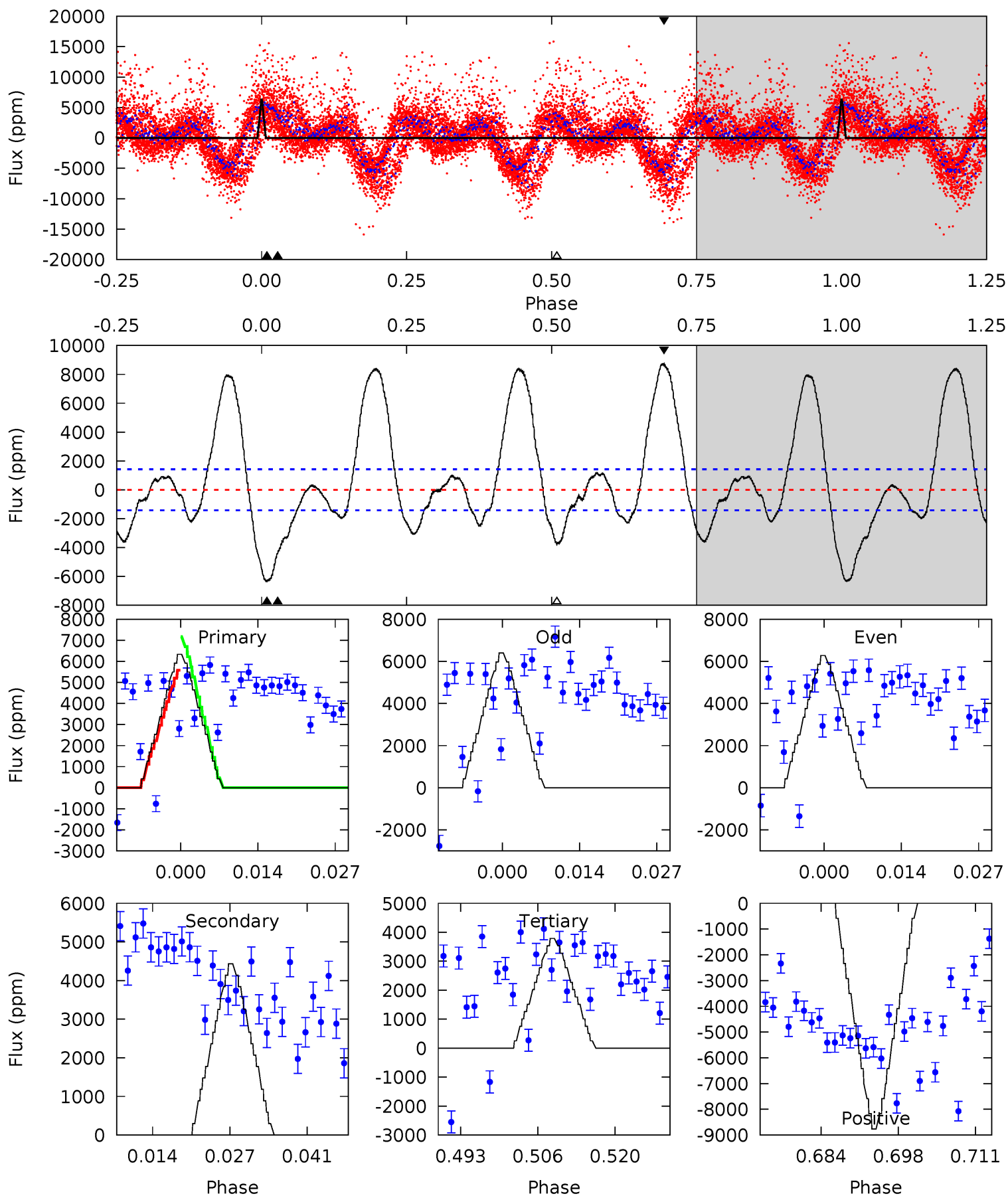
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011597669-01, P = 3.037757 Days, E = 131.563048 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.1	15.5	13.2	30.6	4.97	2.47	12.1	8.89	-8.45	2.27	-15.1	0.22	1.09	0.58	2.80



Stellar Parameters For KIC 011597669

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3150^{+1}_{-1}	$5.132^{+-1.000}_{-1.000}$	$0.000^{+-1.000}_{-1.000}$	$0.172^{+-1.000}_{-1.000}$	$0.146^{+-1.000}_{-1.000}$	$40.620^{+-1.000}_{-1.000}$
	+0%/-0%	+19%/-19%	+inf%/-inf%	+581%/-581%	+685%/-685%	+2%/-2%
Source	SPE17	SPE17	SPE17	BTSL		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011597669-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$1.81^{+1.87}_{-1.28}$	553^{+46}_{-46}	2475^{+3193}_{-7740}	102^{+18930}_{-12839}
Alt.	-4437 ± 287	$1.27^{+1.59}_{-0.91}$	555^{+50}_{-47}	3180^{+1651}_{-624}	730^{+7141}_{-572}

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

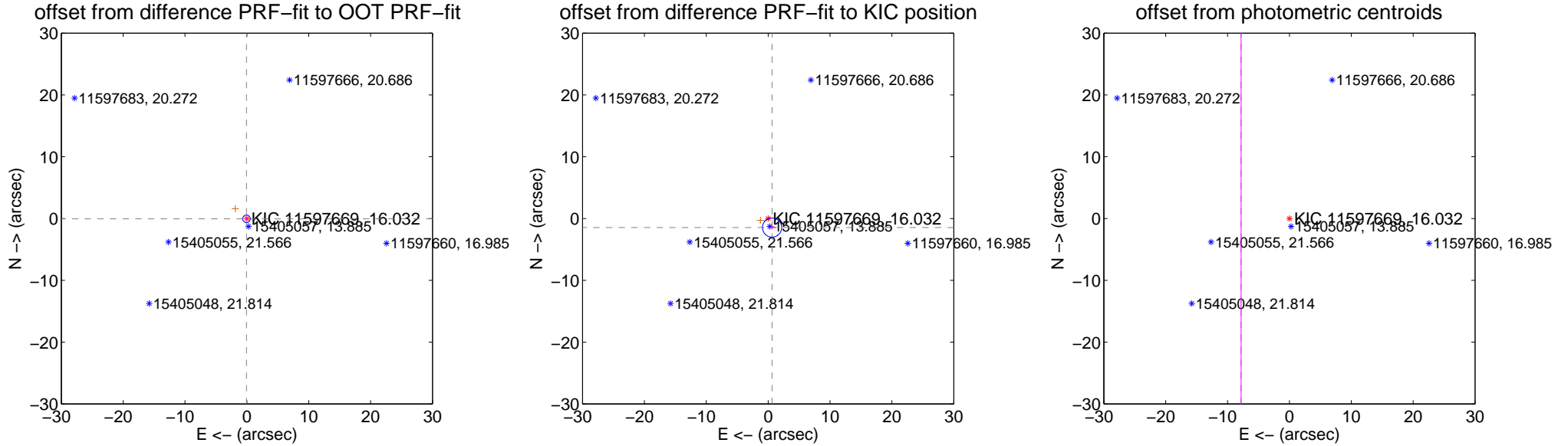
DV Centroid Data

Supplemental centroid analysis for 011597669-01. Kepler magnitude: 16.03. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 2.00 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	0.079 ± 0.203	0.39	0.063 ± 0.204	-0.048 ± 0.202
PRF-fit source offset from KIC position	1.586 ± 0.518	3.06	-0.632 ± 0.604	-1.454 ± 0.313
photometric centroid source offset	38.17 ± 87.56	0.44	7.82 ± 101.24	-37.36 ± 86.91

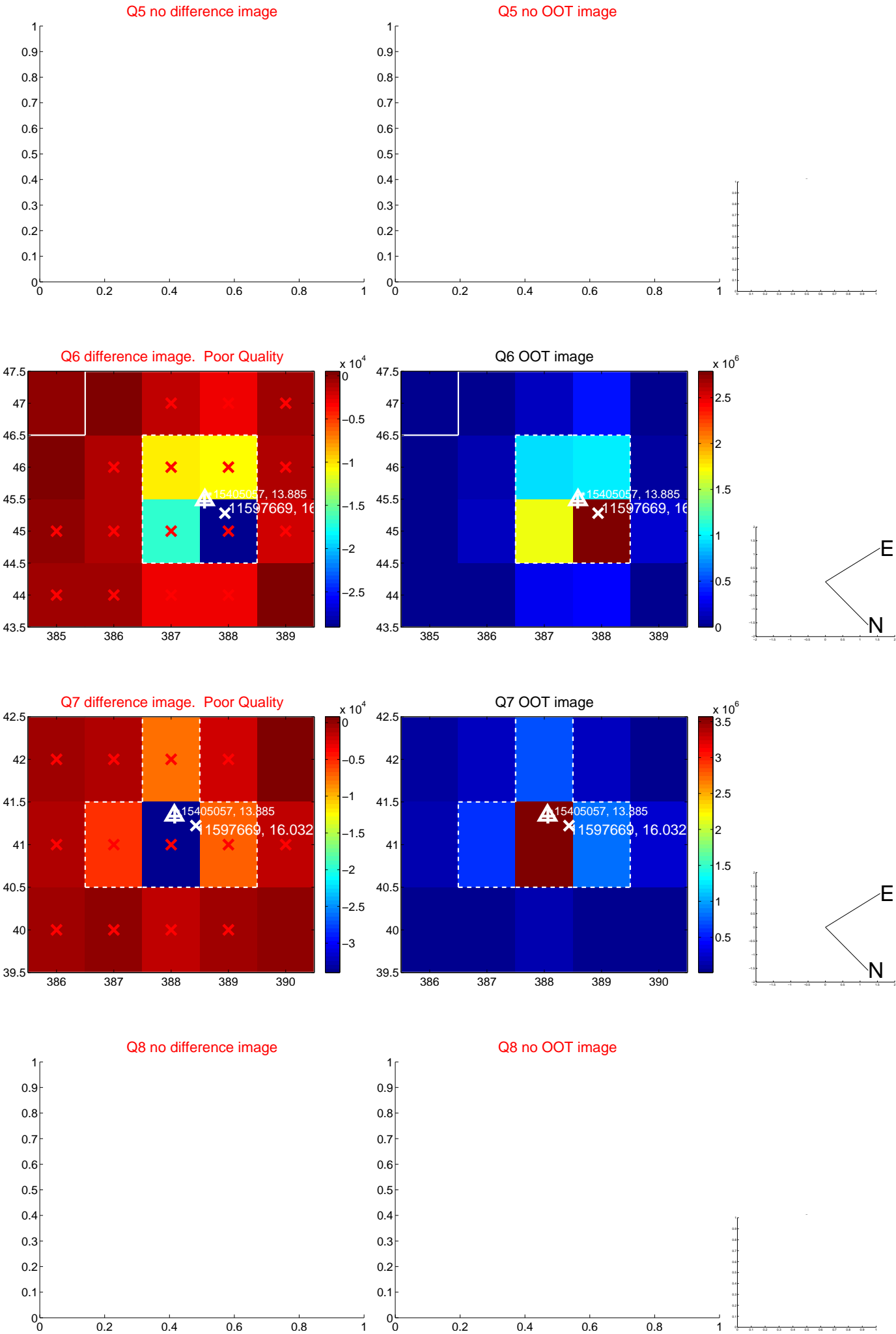


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

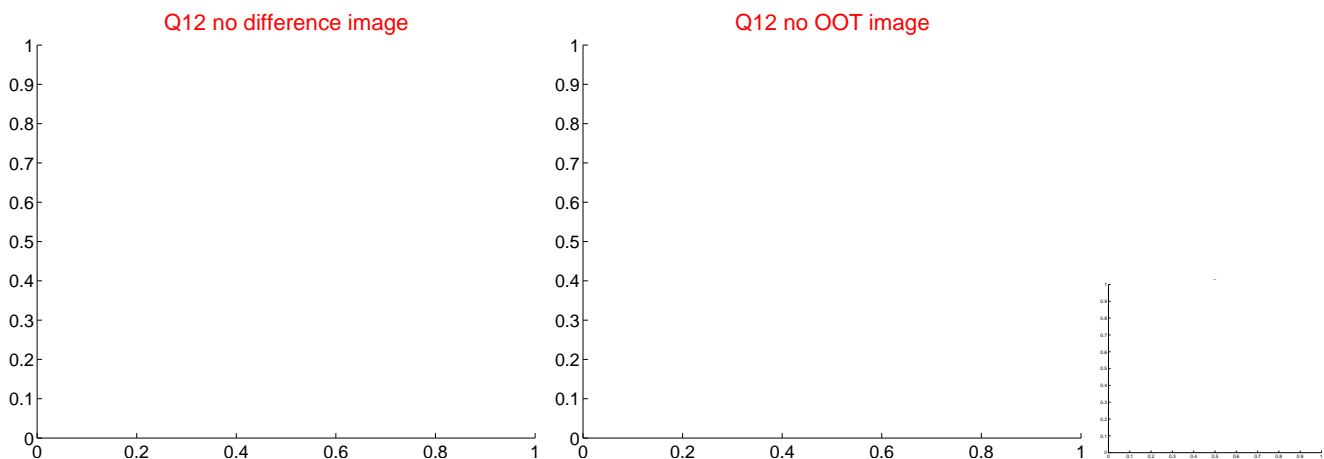
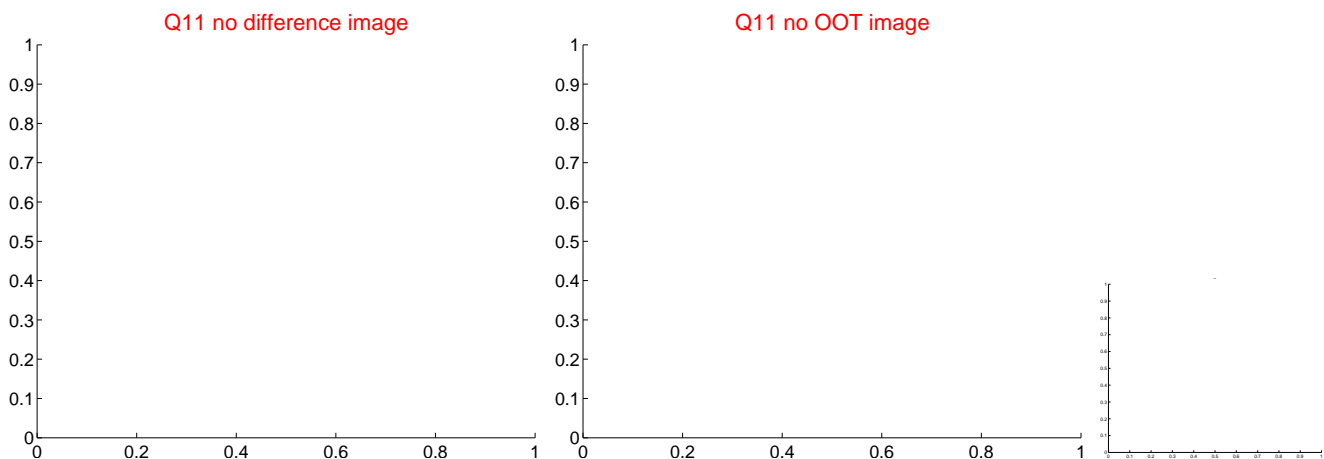
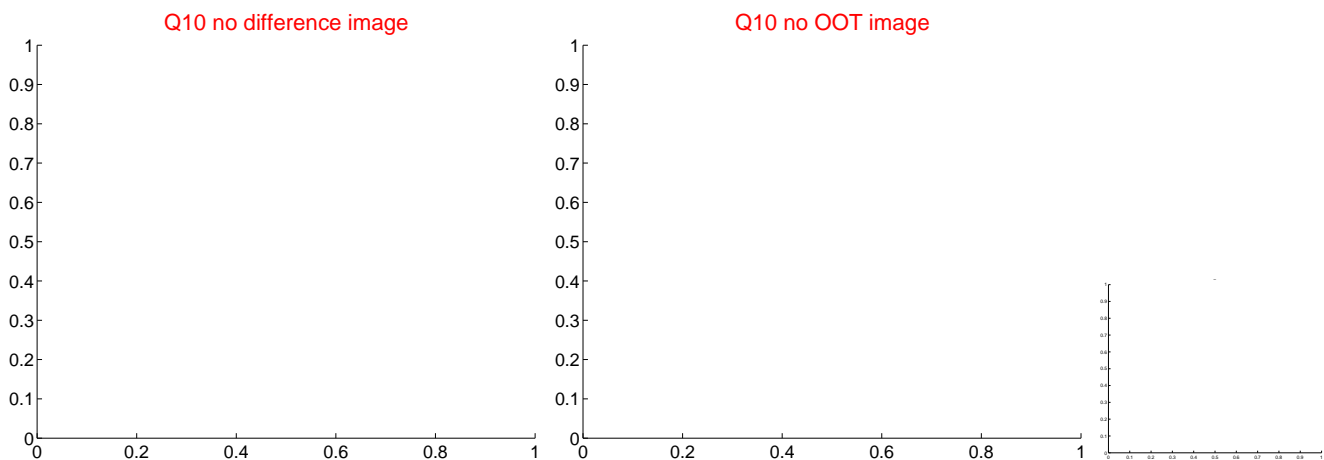
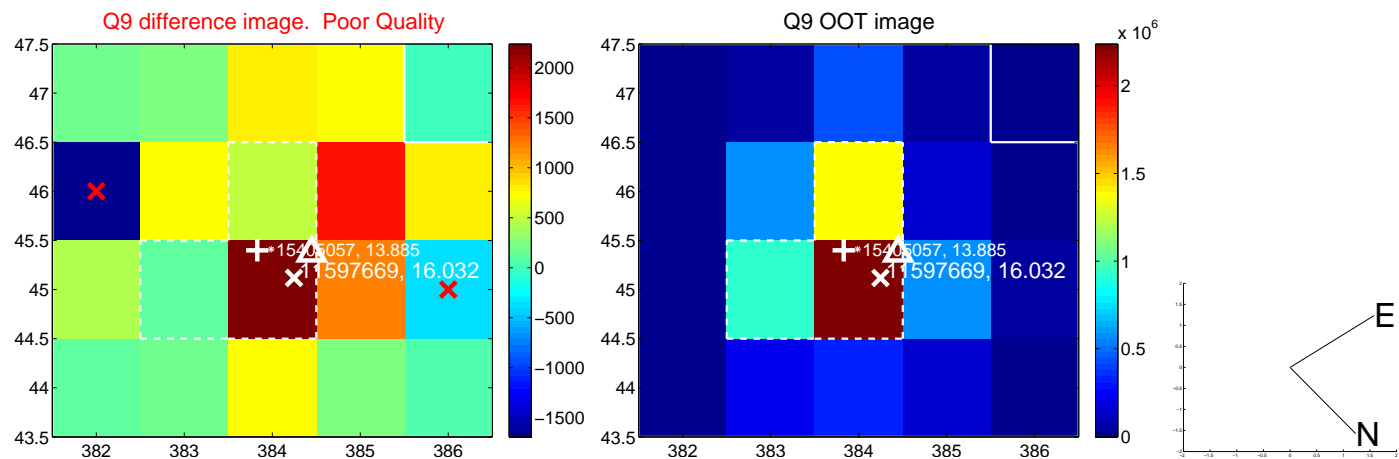
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



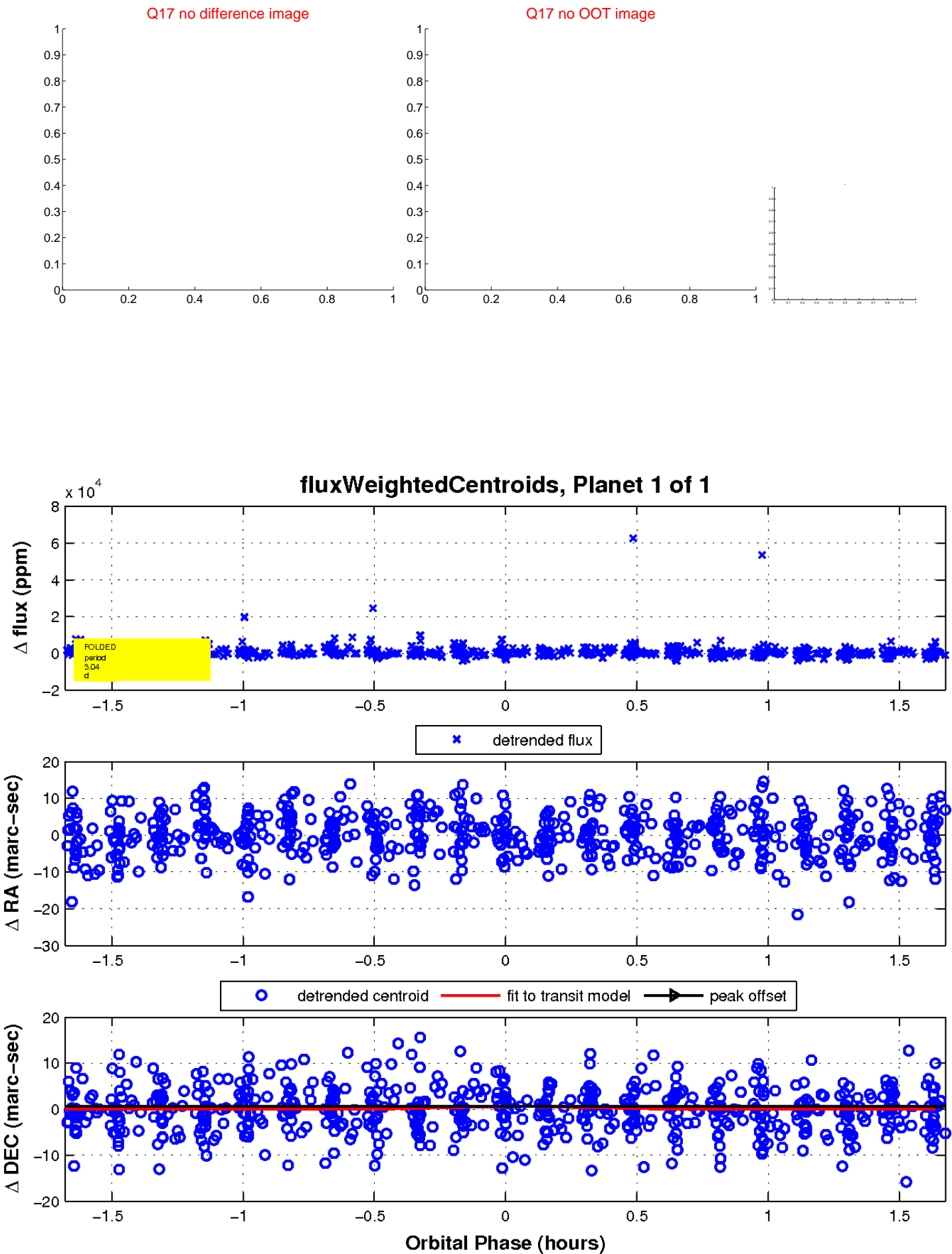
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



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



UKIRT Image

Declination

