

KIC 006629332

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})
006629332-01	OBS	1227.01	2.155277	133.576500	20443.0	2.106	2422.5	2246.0	0.82	5665	15.78	620.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006629332-01	OBS	FP	0.00	0	1	0	0	MOD_ODDEVEN_DV—DEEP_V_SHAPED

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.

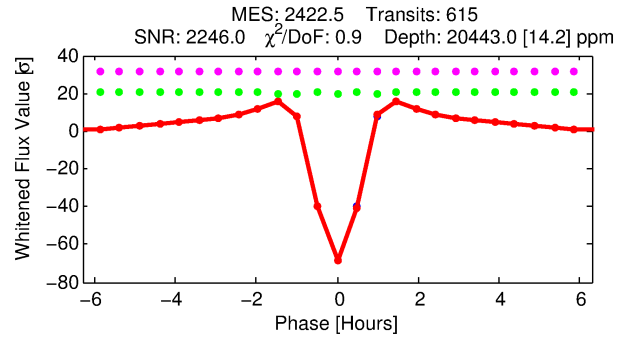
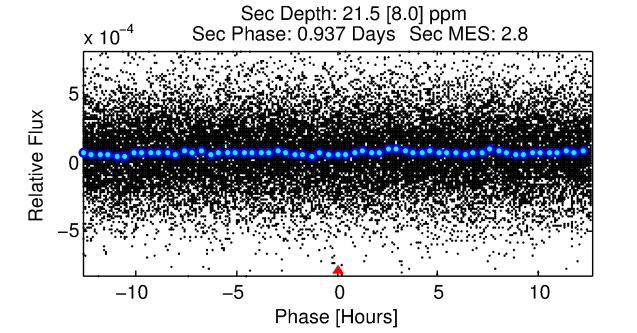
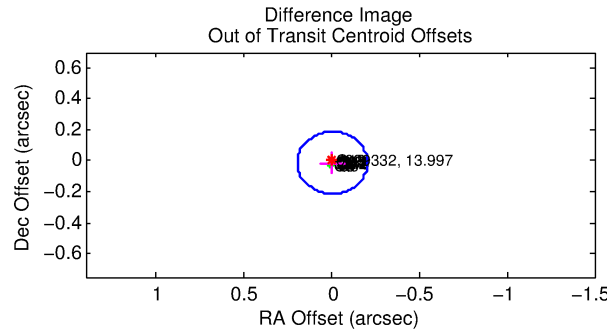
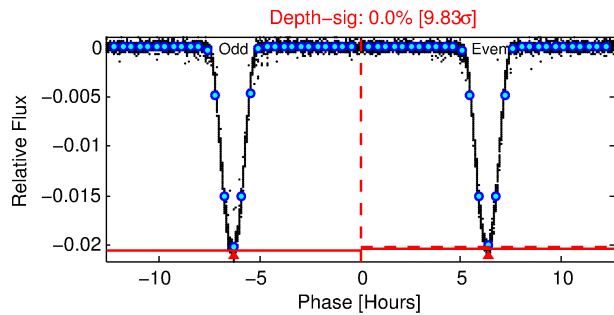
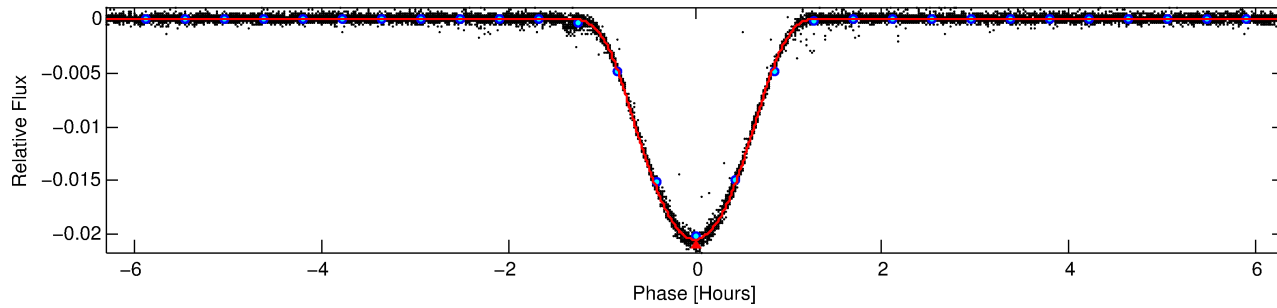
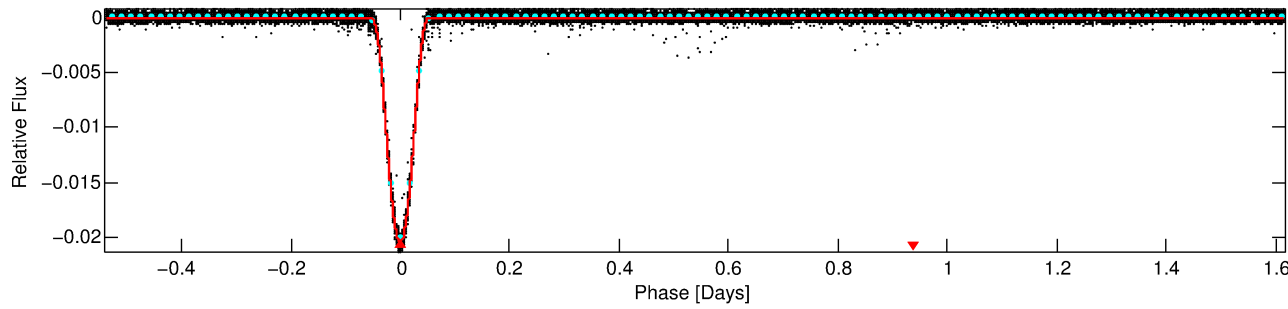
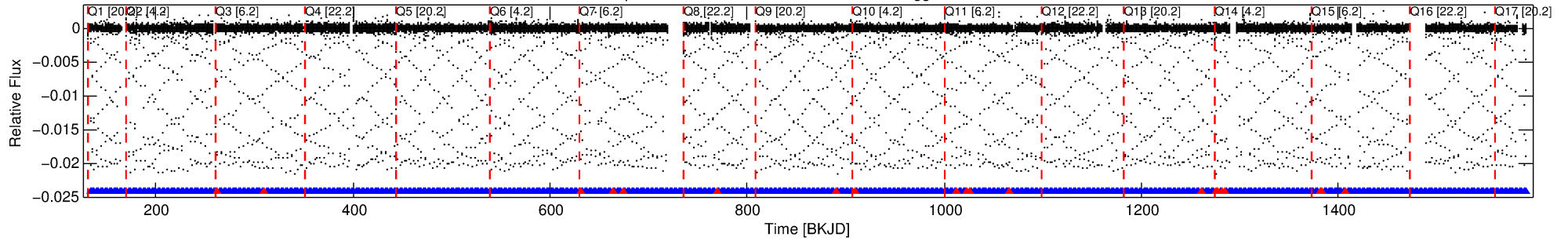
Ephemeris Match Information For 006629332-01

No Significant Match Found

DV One-Page Summary

KIC: 6629332 Candidate: 1 of 1 Period: 2.155 d
KOI: K01227.01 Corr: 0.999

Kp: 14.00 R*: 0.82 Rs Teff: 5665.0 K Logg: 4.57 Fe/H: -0.200



DV Fit Results:

Period = 2.15528 [0.00000] d
Epoch = 133.5765 [0.0000] BKJD
Rp/R* = 0.1763 [0.0015]
a/R* = 5.94 [0.01]
b = 0.91 [0.00]
Seff = 620.72 [186.29]
Teq = 1273 [95] K
Rp = 15.78 [3.68] Re
a = 0.0316 [0.0061] AU
Ag = 0.05 [0.02] [-43.17σ]
Teff = 918 [89] K [-2.72σ]

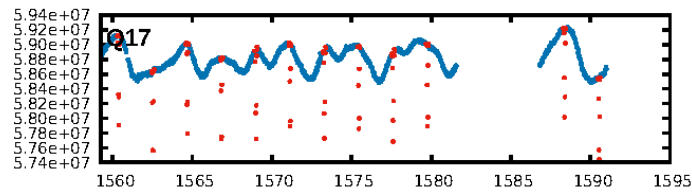
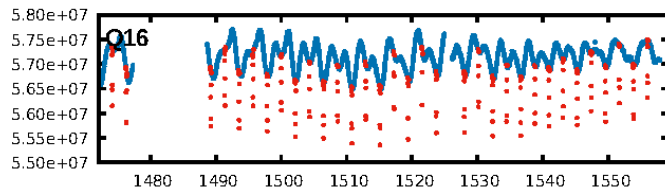
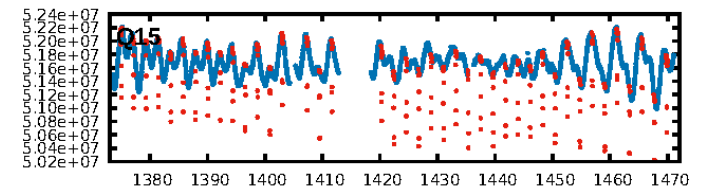
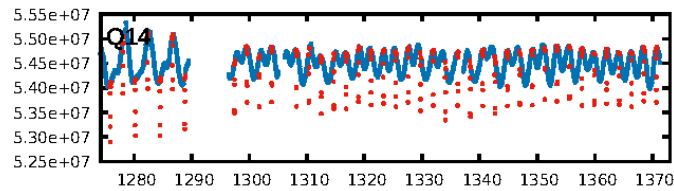
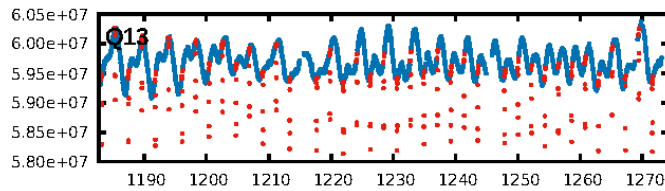
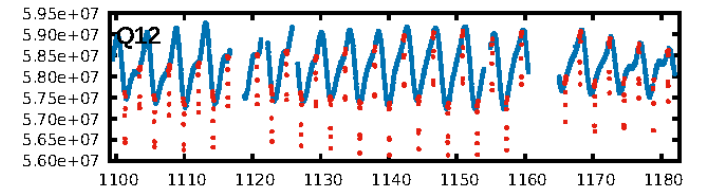
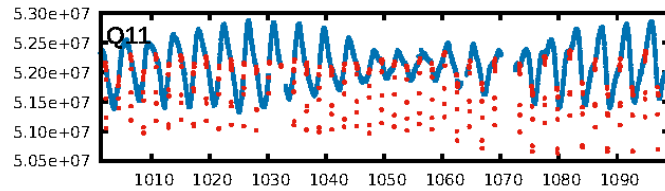
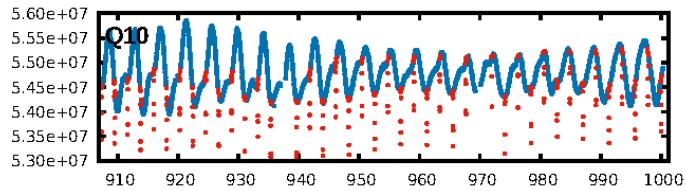
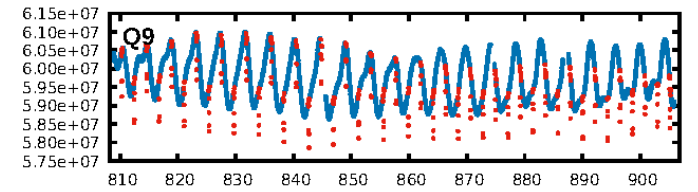
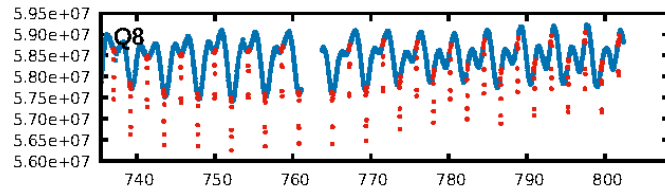
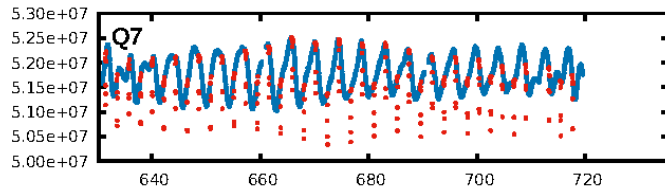
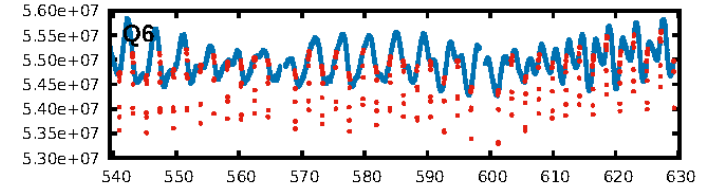
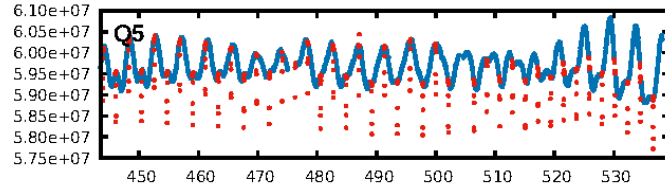
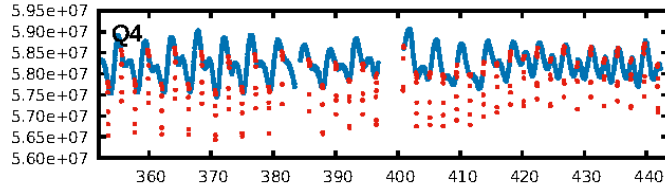
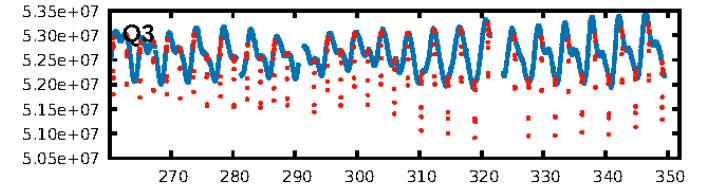
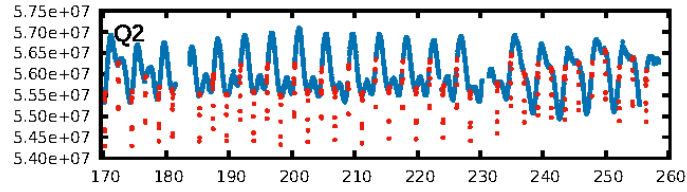
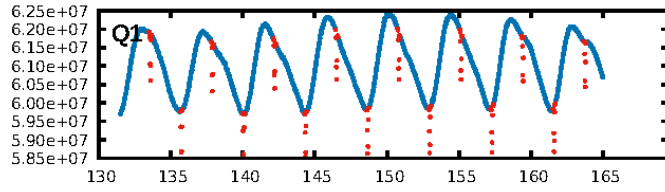
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.97 [568/588]
GhostDiagnostic-chr: 2.758
Centroid-sig: 0.0%
Centroid-so: 0.201 arcsec [46.38σ]
OotOffset-rm: 0.014 arcsec [0.21σ]
KicOffset-rm: 0.127 arcsec [1.88σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

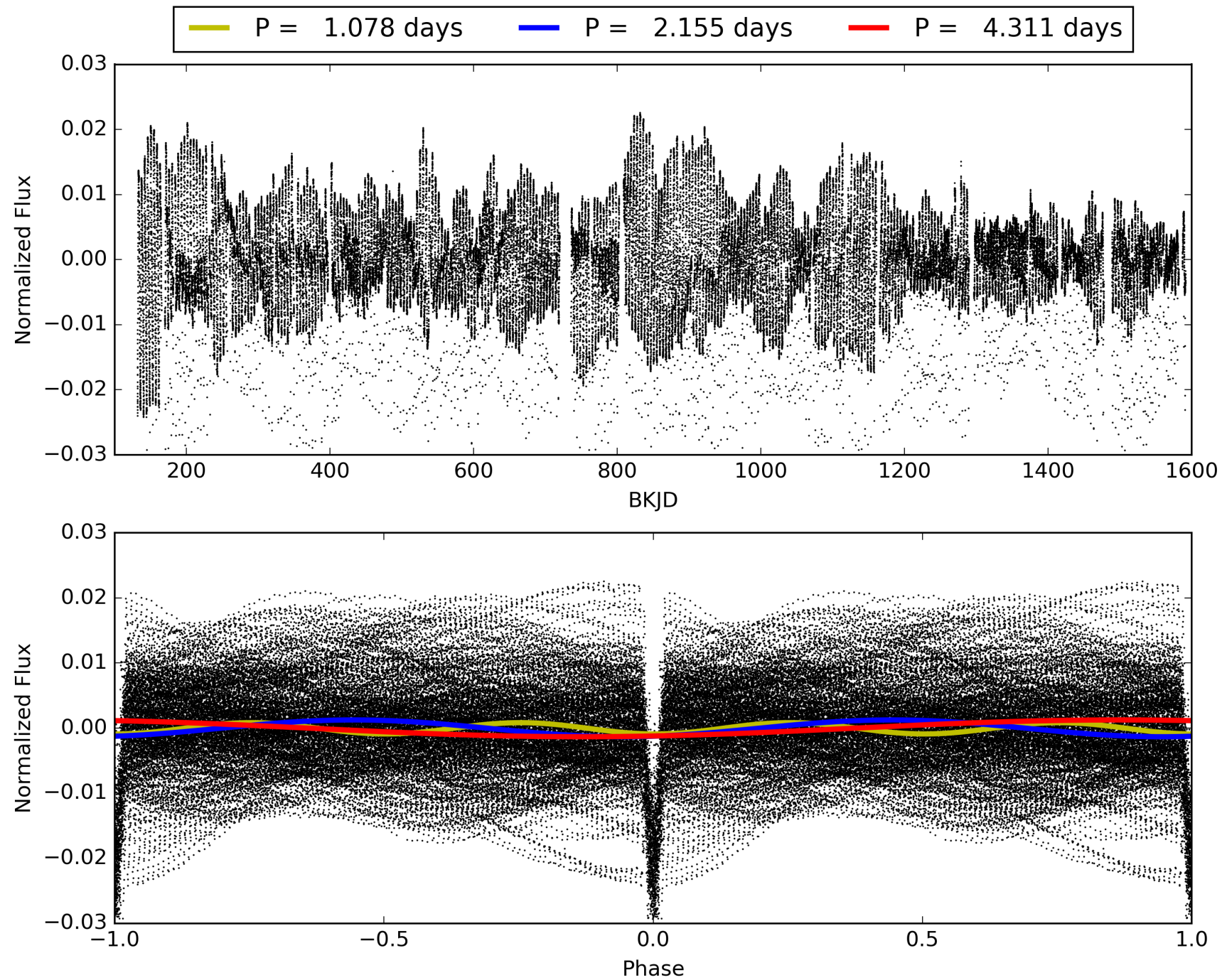
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:11:59 Z

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

TCE 006629332-01, PDC Light Curves

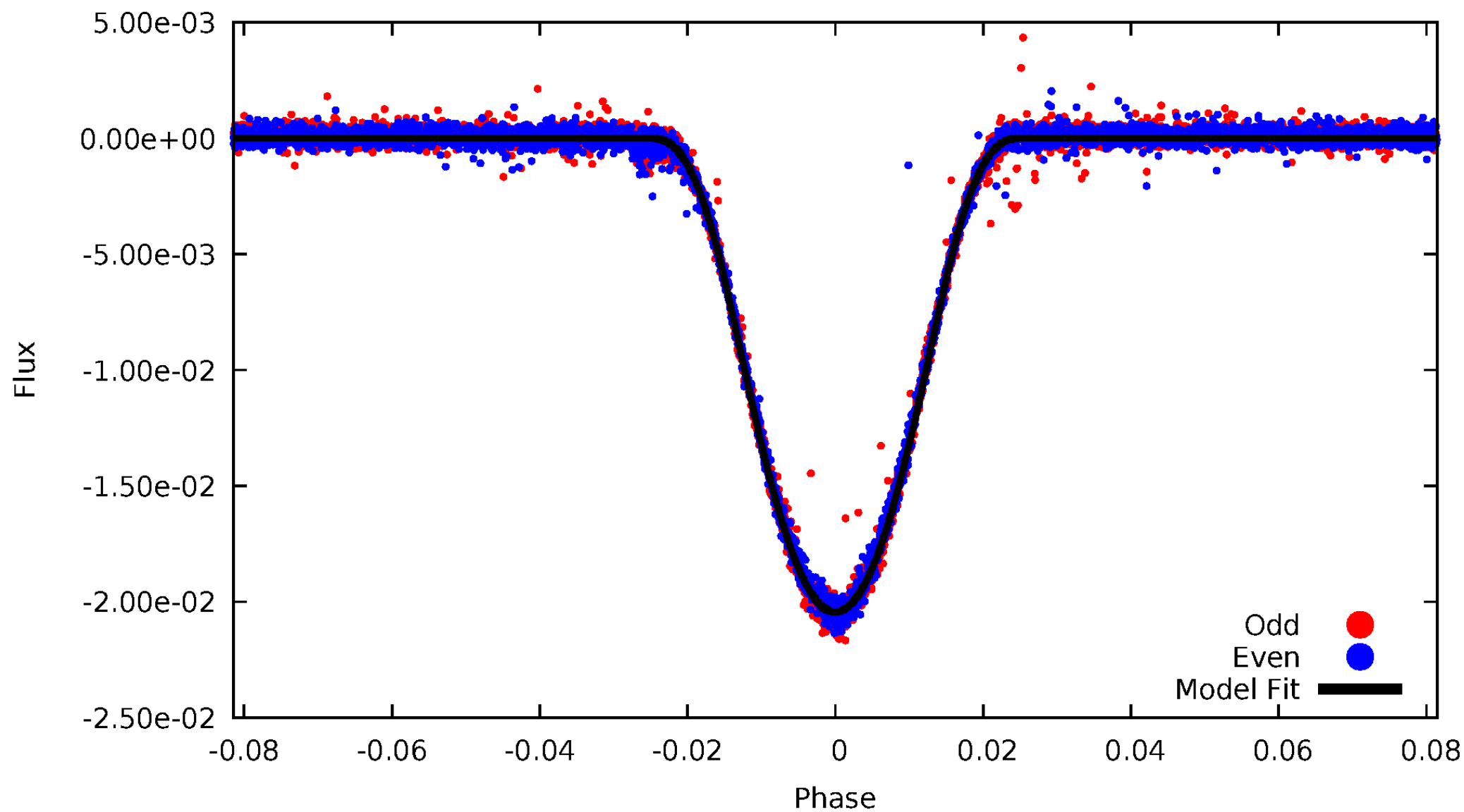


TCE 006629332-01



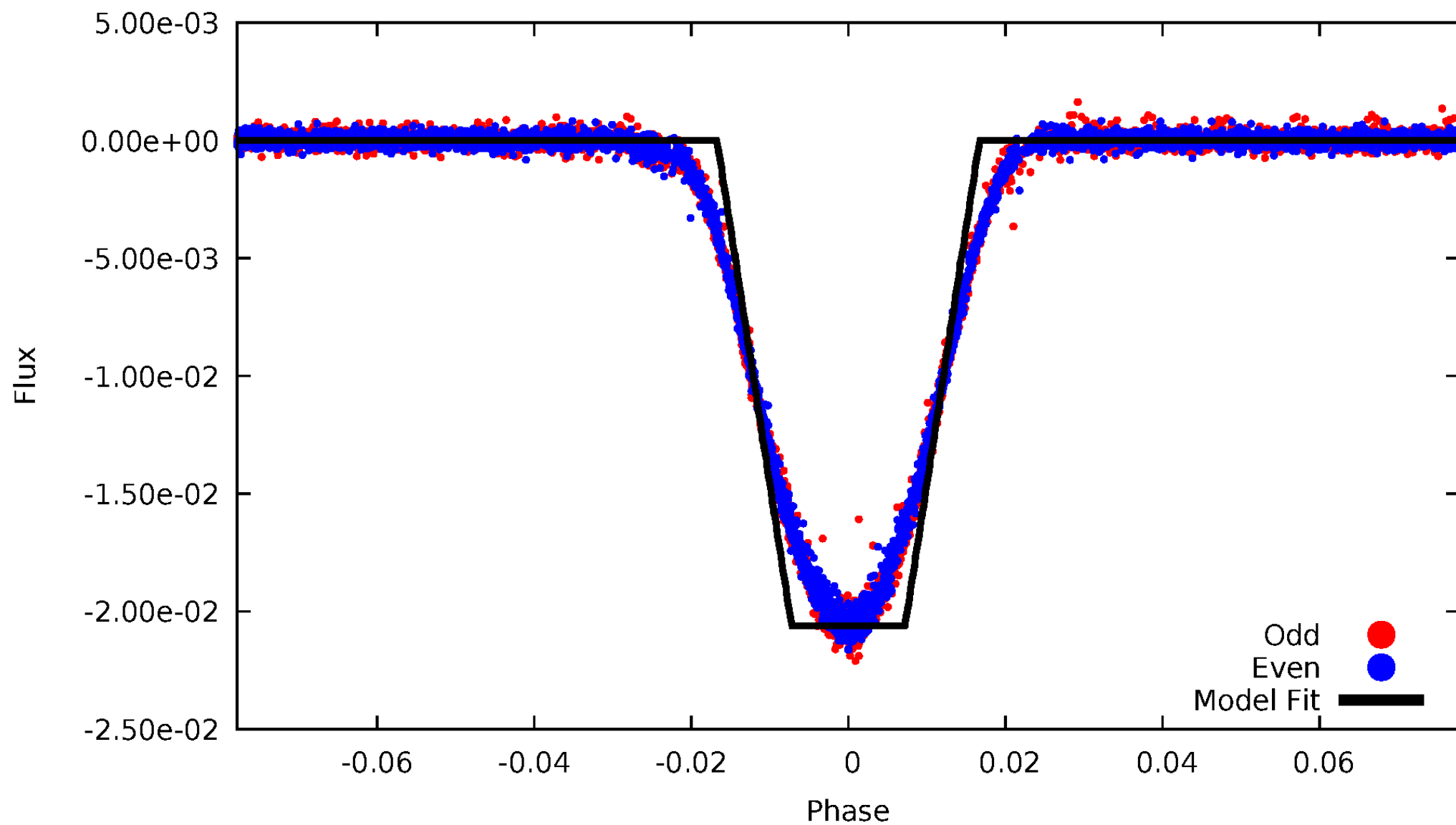
DV Odd/Even

TCE 006629332-01



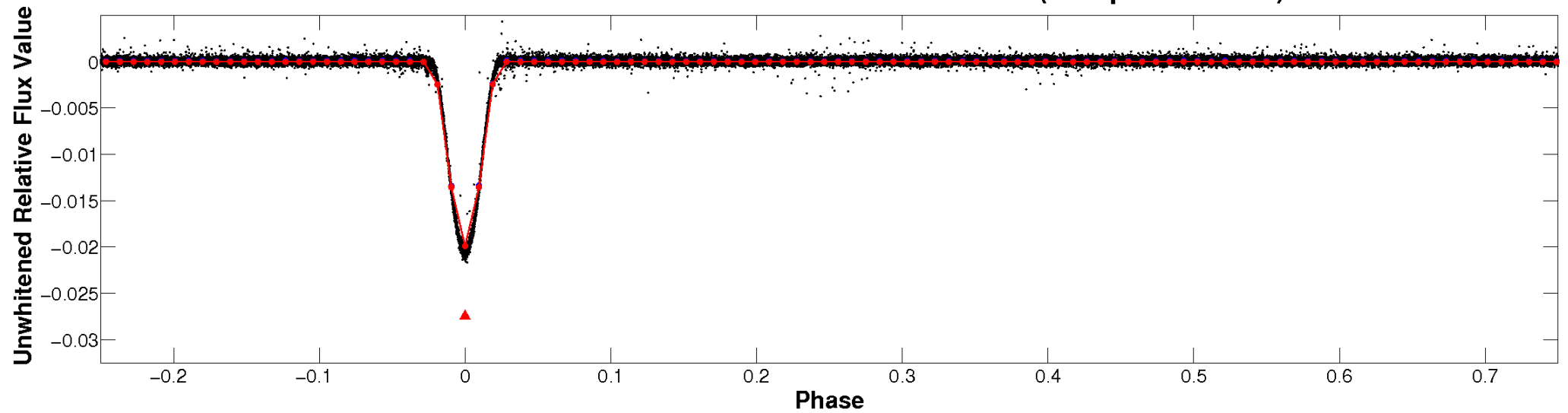
ALT Odd/Even

TCE 006629332-01

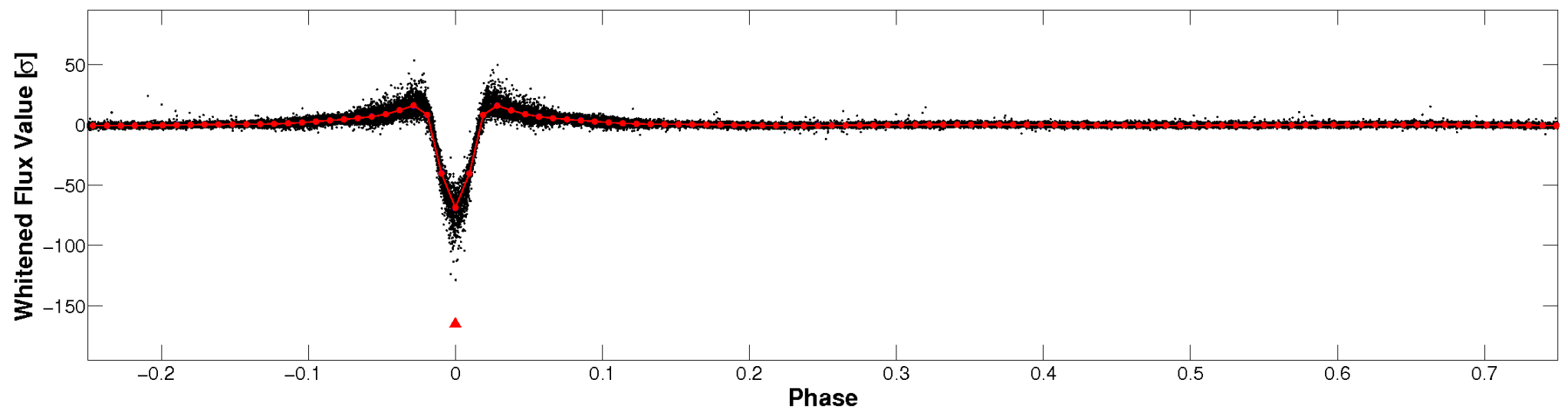


Non-Whitened Vs. Whitened Light Curve

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

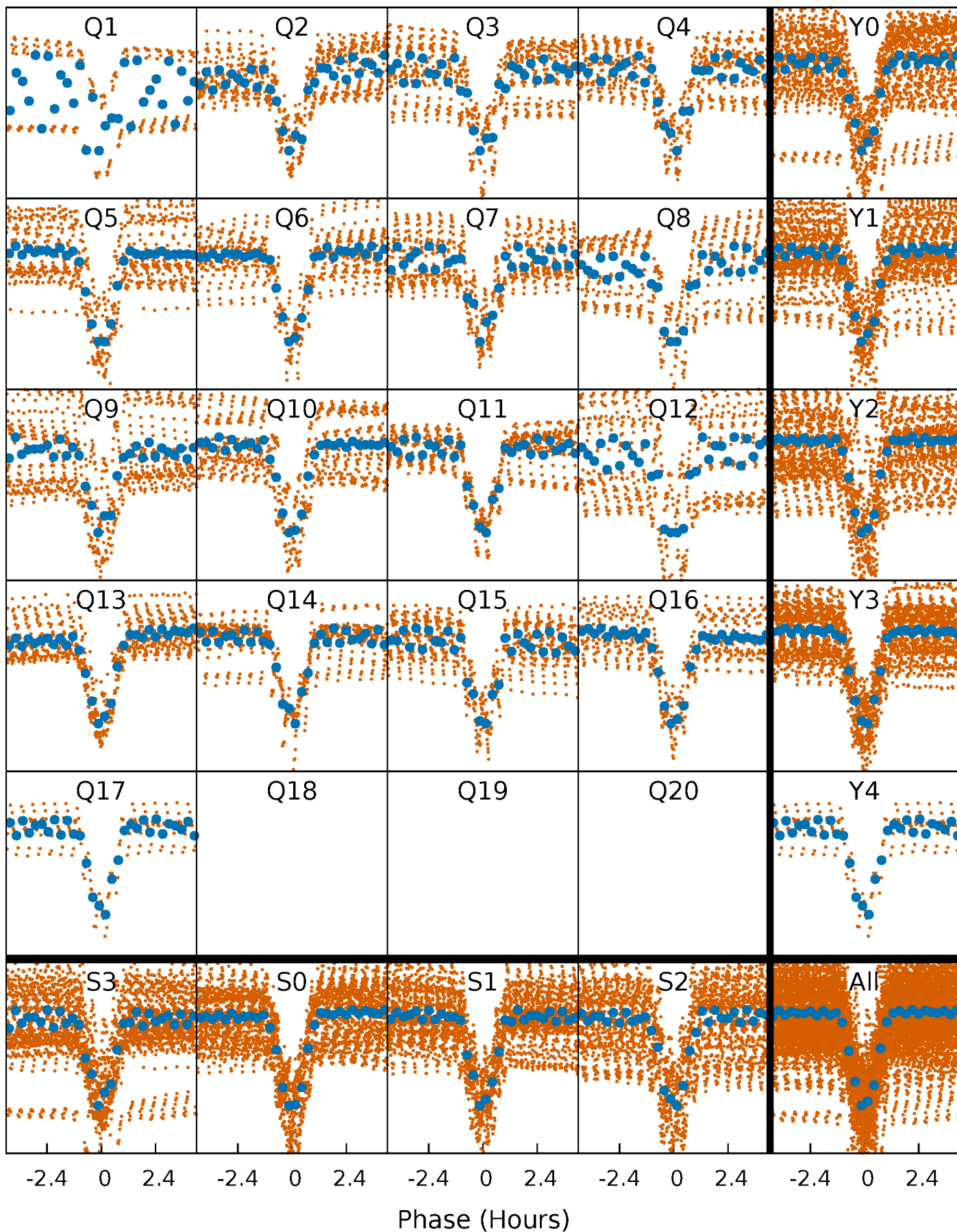


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



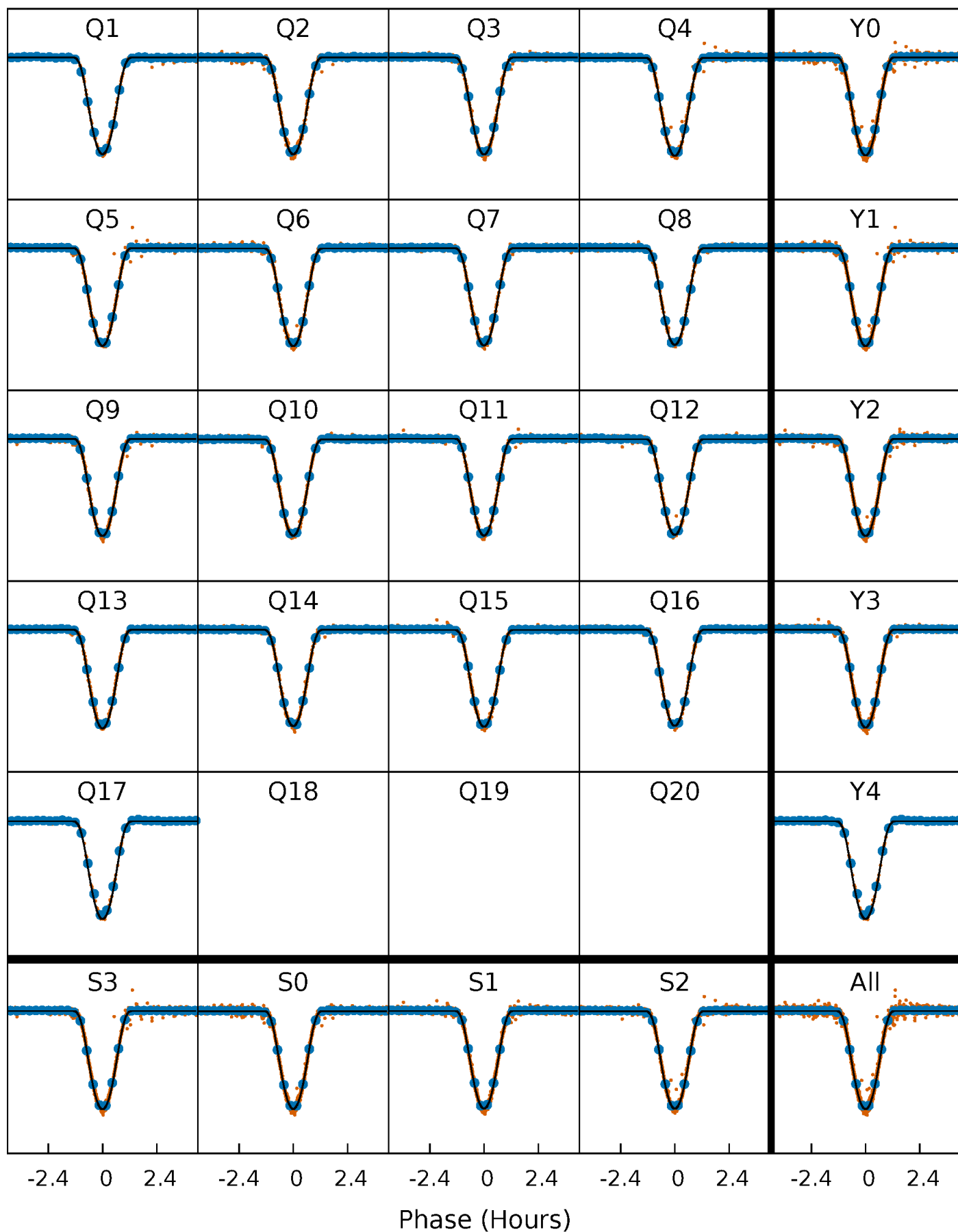
PDC Quarter-Phased Transit Curves

TCE 006629332-01 P= 2.155277 Days $T_0=133.576500$ (BKJD)



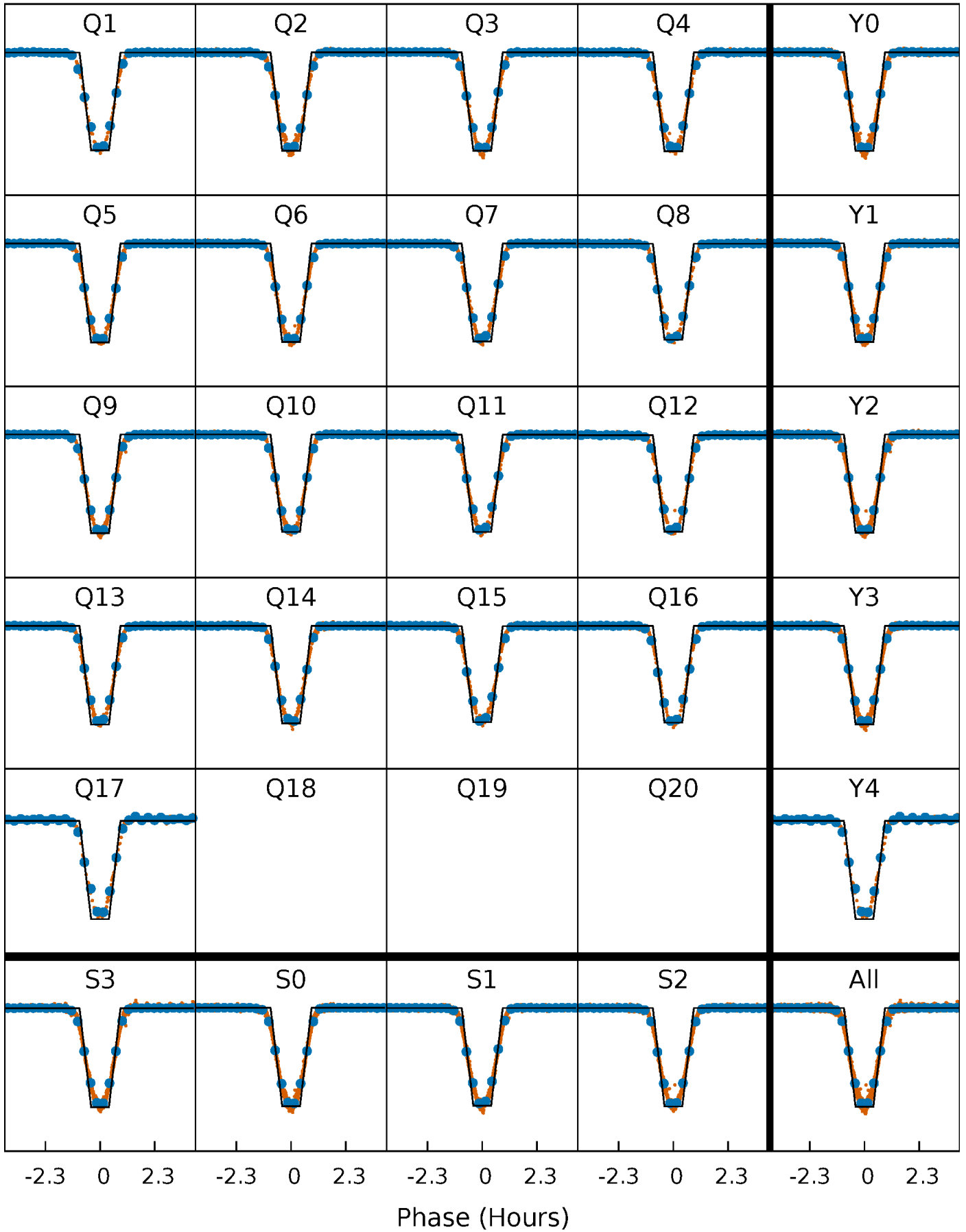
DV Quarter-Phased Transit Curves

TCE 006629332-01 P= 2.155277 Days $T_0=133.576500$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

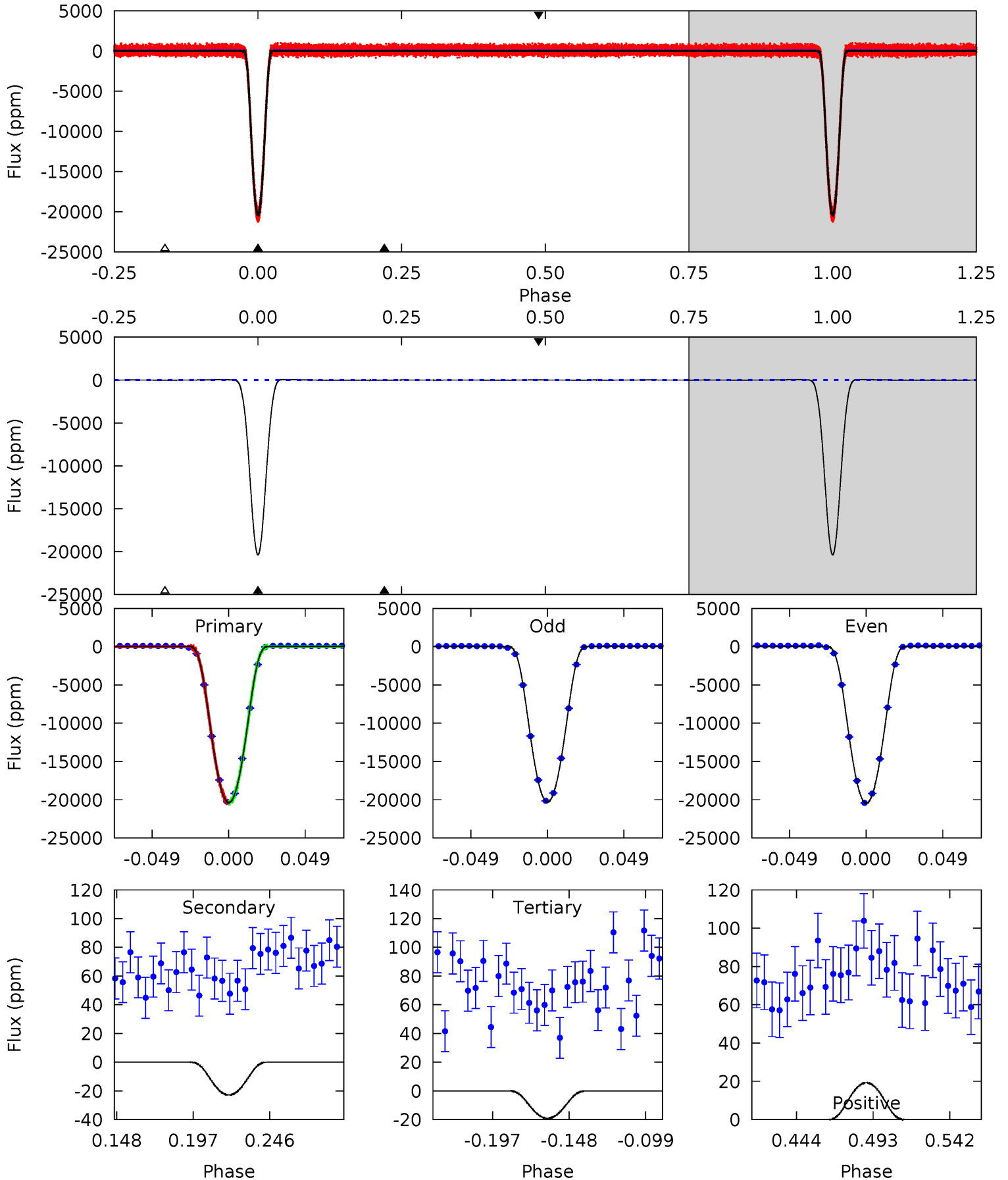
TCE 006629332-01 P= 2.155278 Days $T_0=133.576333$ (BKJD)



DV Model-Shift Uniqueness Test

006629332-01, P = 2.155277 Days, E = 131.421223 Days

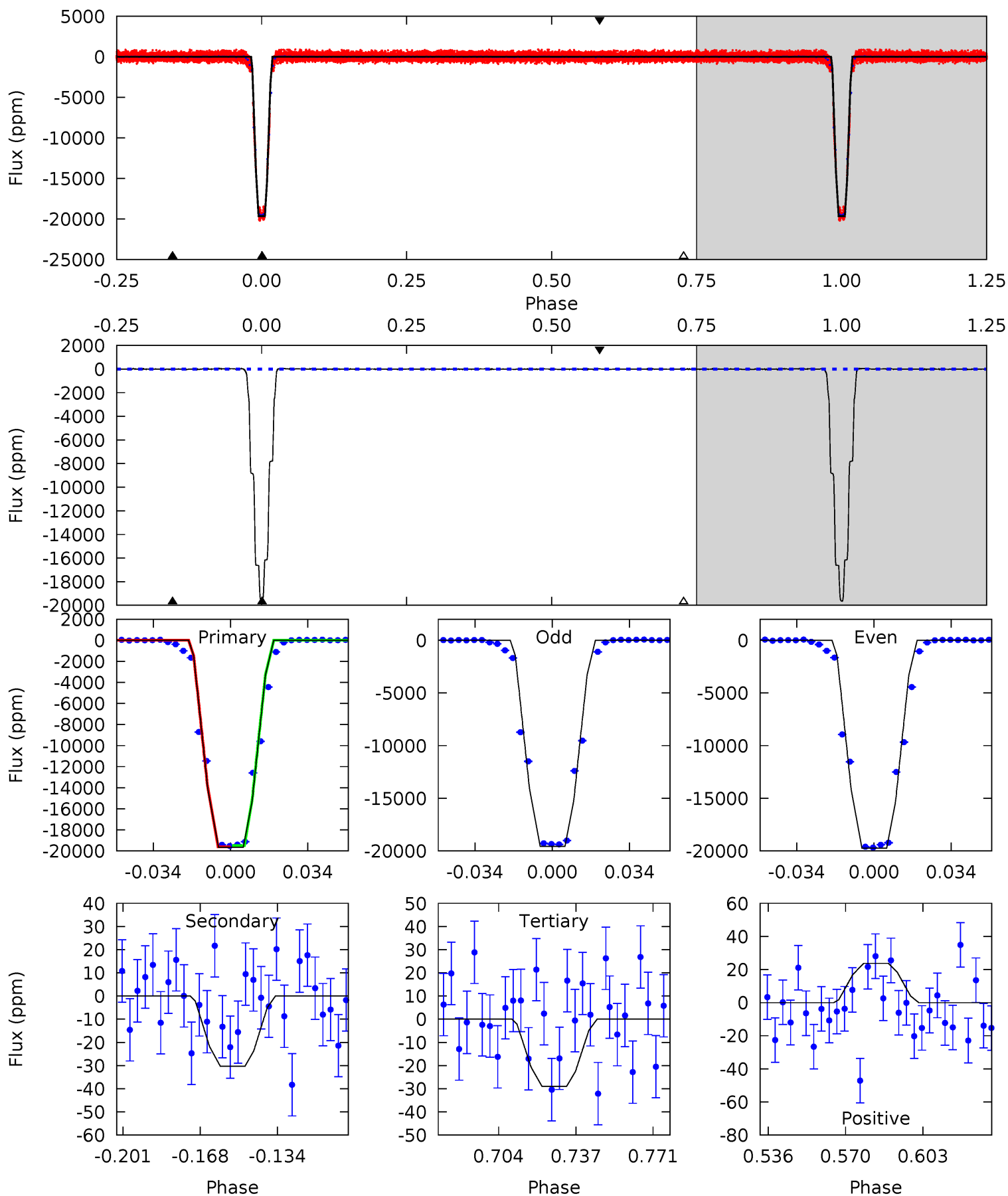
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4651	5.22	4.35	4.39	4.71	1.97	3.08	4646	4646	0.87	0.82	18.2	1.00	0.00	1.30



Alt Model-Shift Uniqueness Test

006629332-01, P = 2.155278 Days, E = 131.421055 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2420	3.73	3.57	2.92	4.79	2.13	1.52	2416	2417	0.17	0.81	10.2	1.00	0.00	0



Stellar Parameters For KIC 006629332

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5665^{+152}_{-152}	$4.568^{+0.038}_{-0.152}$	$-0.200^{+0.300}_{-0.300}$	$0.820^{+0.191}_{-0.076}$	$0.916^{+0.092}_{-0.112}$	$2.336^{+0.480}_{-1.057}$
	+3%/-3%	+1%/-3%	+150%/-150%	+23%/-9%	+10%/-12%	+21%/-45%
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 006629332-01 / KOI 1227.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-23 ± 4	$16.13^{+1.93}_{-1.05}$	1813^{+97}_{-73}	-2333^{+52}_{-63}	$0.046^{+0.012}_{-0.011}$
Alt.	-30 ± 8	$13.18^{+1.53}_{-0.90}$	1808^{+101}_{-71}	-2273^{+64}_{-81}	$0.094^{+0.028}_{-0.028}$

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 $A_{obs} \gg 1.0$

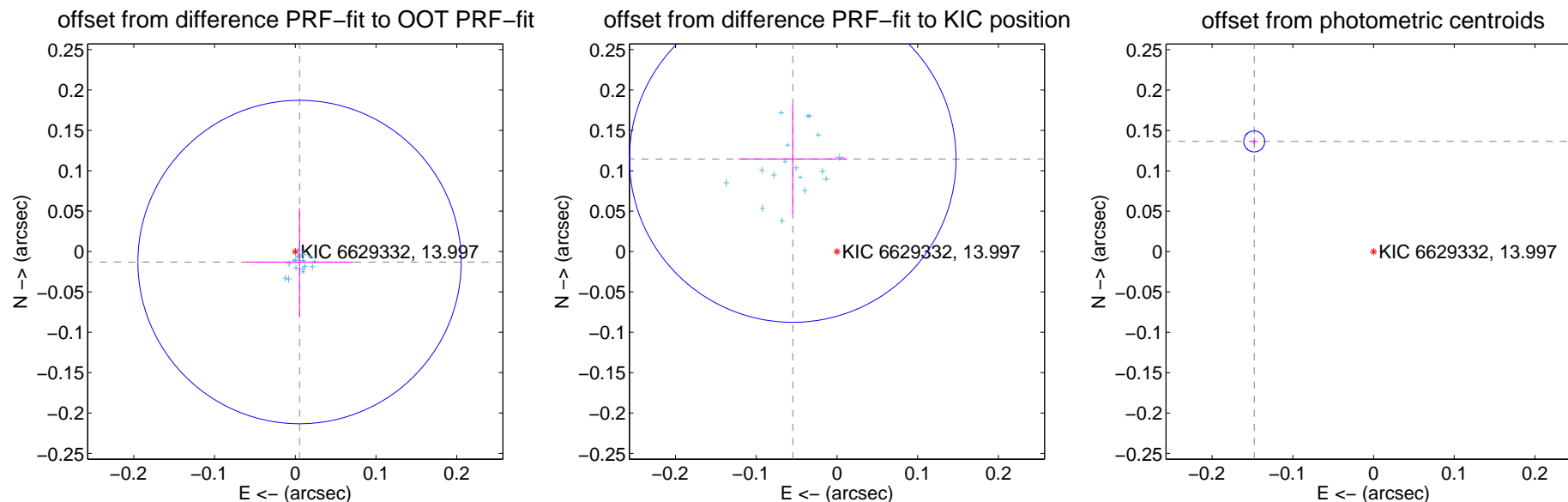
DV Centroid Data

Supplemental centroid analysis for 006629332-01. Kepler magnitude: 14.00. Transit SNR 2246.03

There are 17 quarters with good PRF difference image offsets

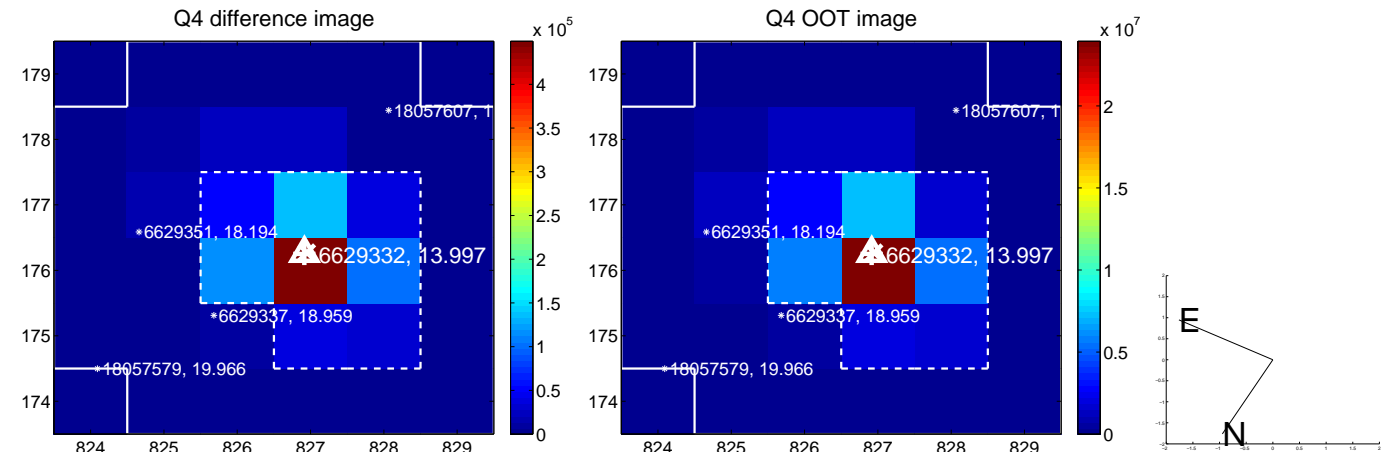
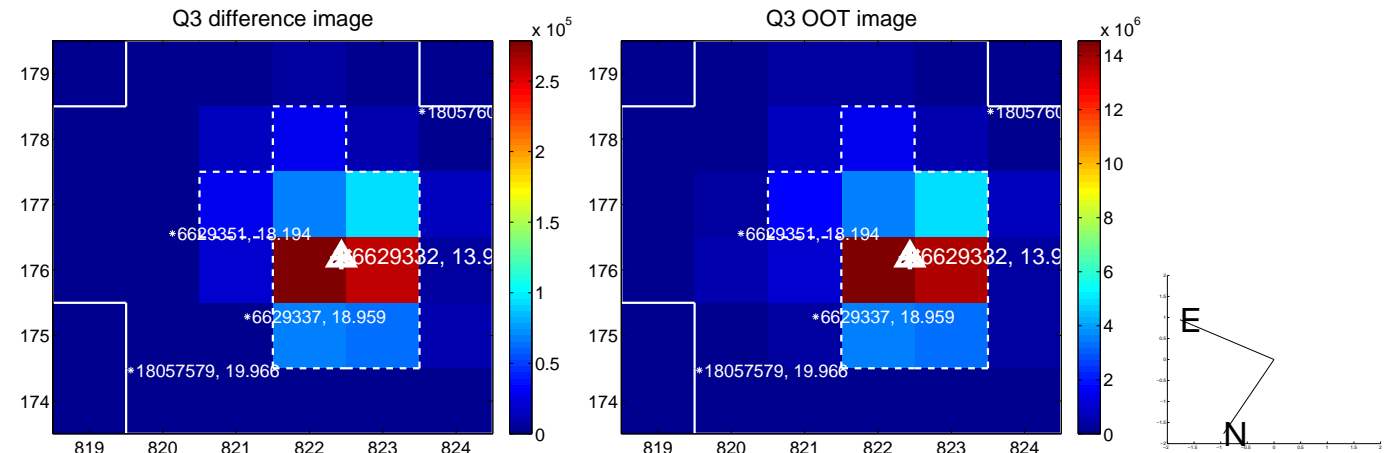
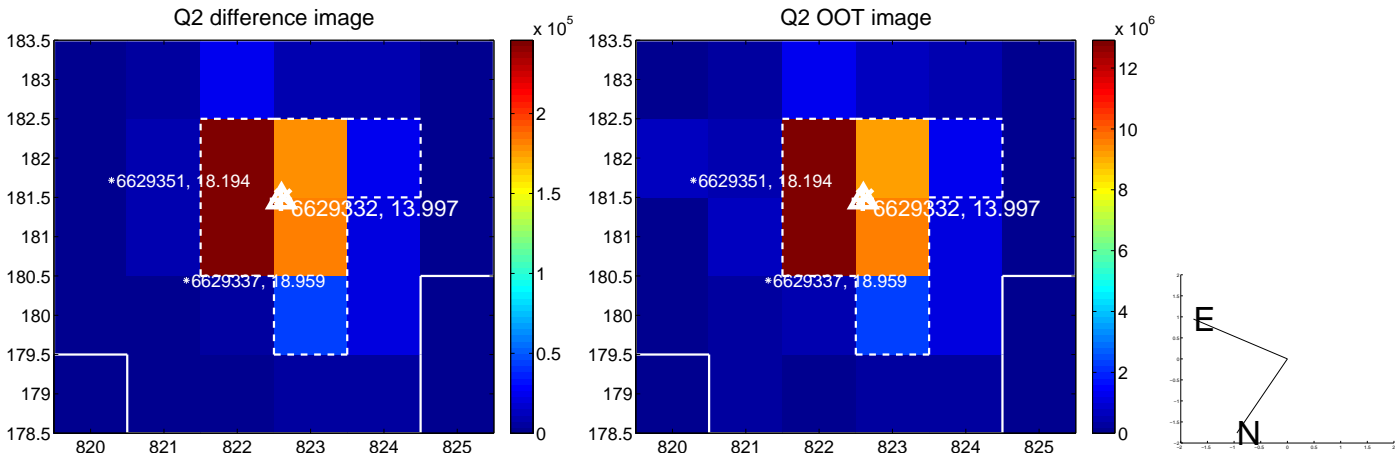
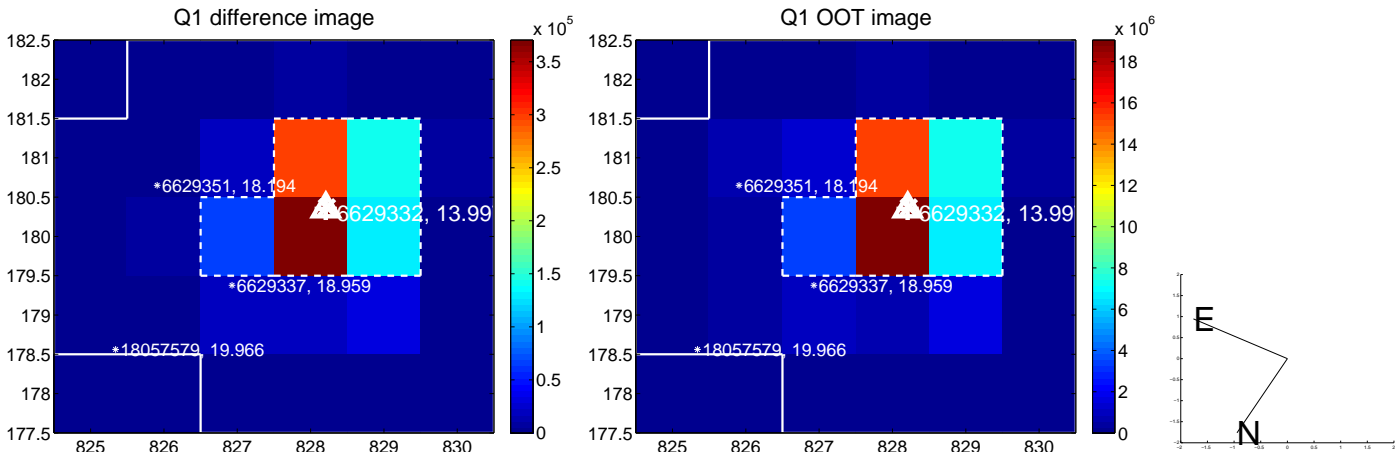
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.014 ± 0.067	0.21	-0.005 ± 0.067	-0.013 ± 0.067
PRF-fit source offset from KIC position	0.127 ± 0.067	1.88	0.055 ± 0.067	0.115 ± 0.067
photometric centroid source offset	0.20 ± 0.00	46.38	0.15 ± 0.00	0.14 ± 0.00

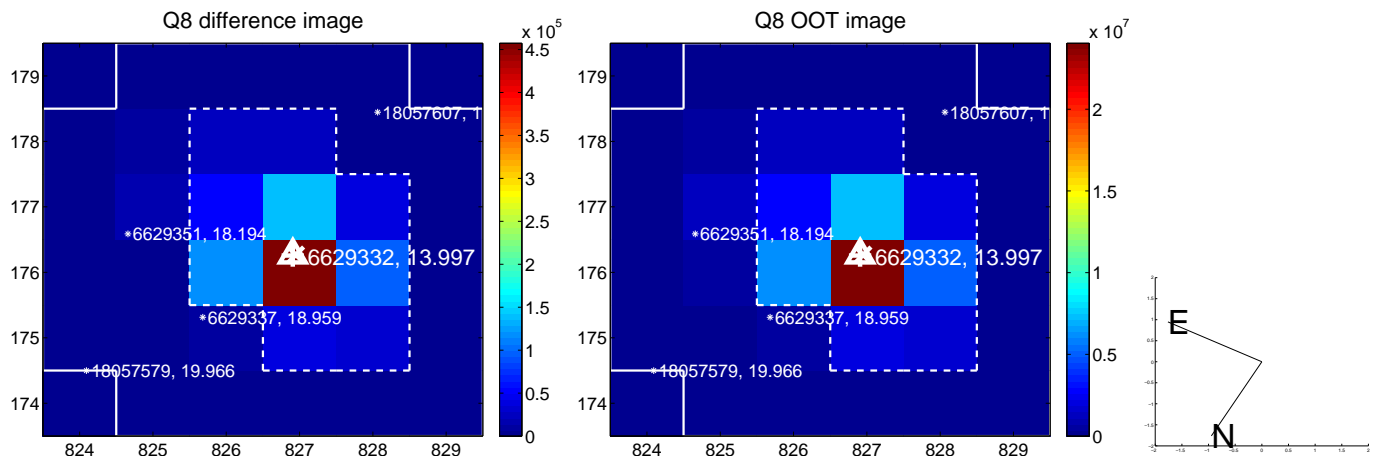
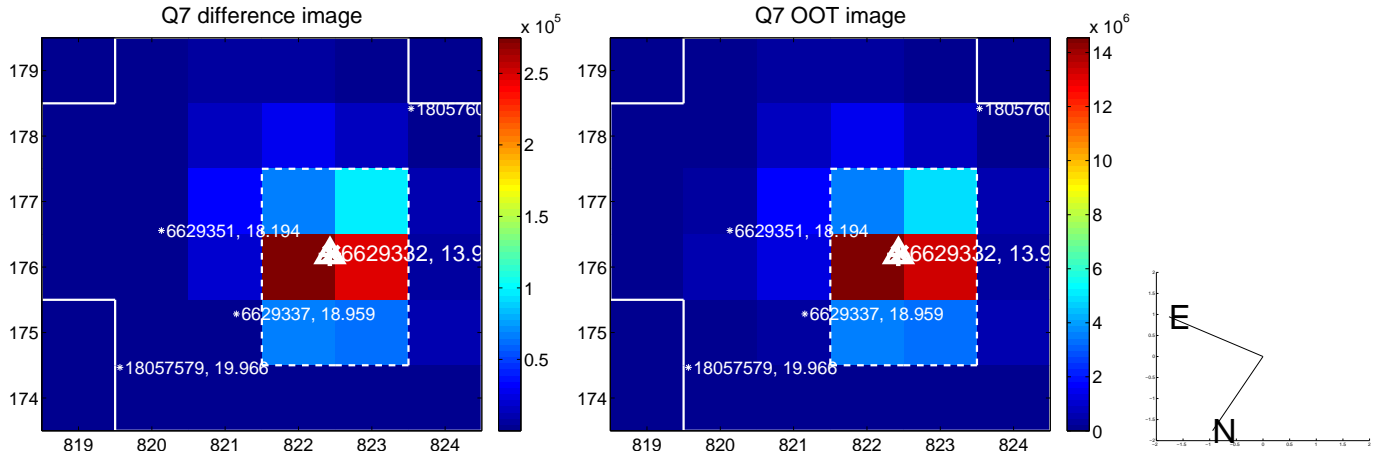
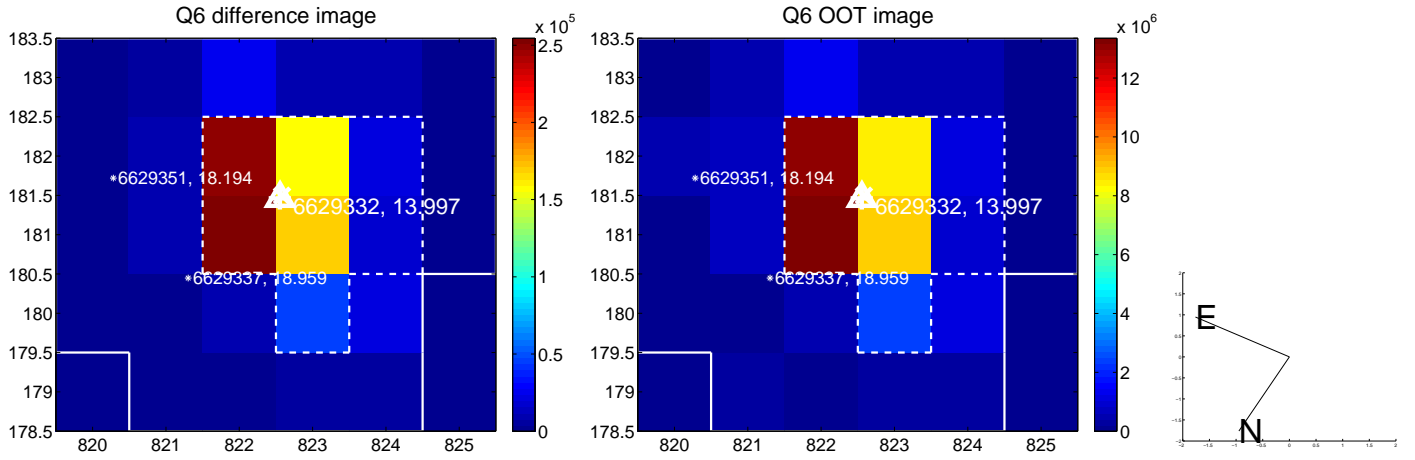
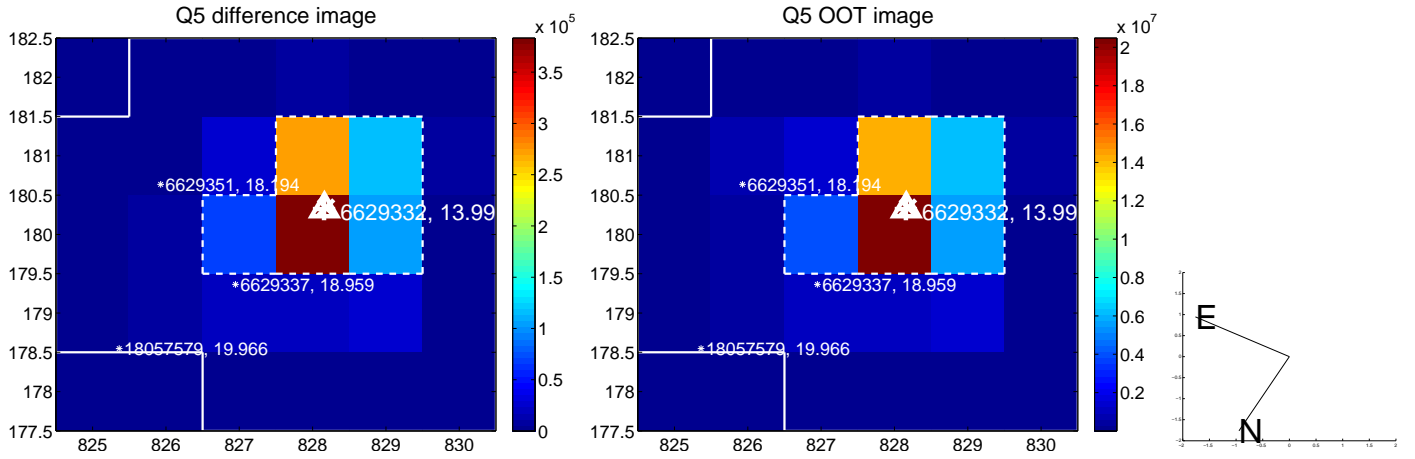


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

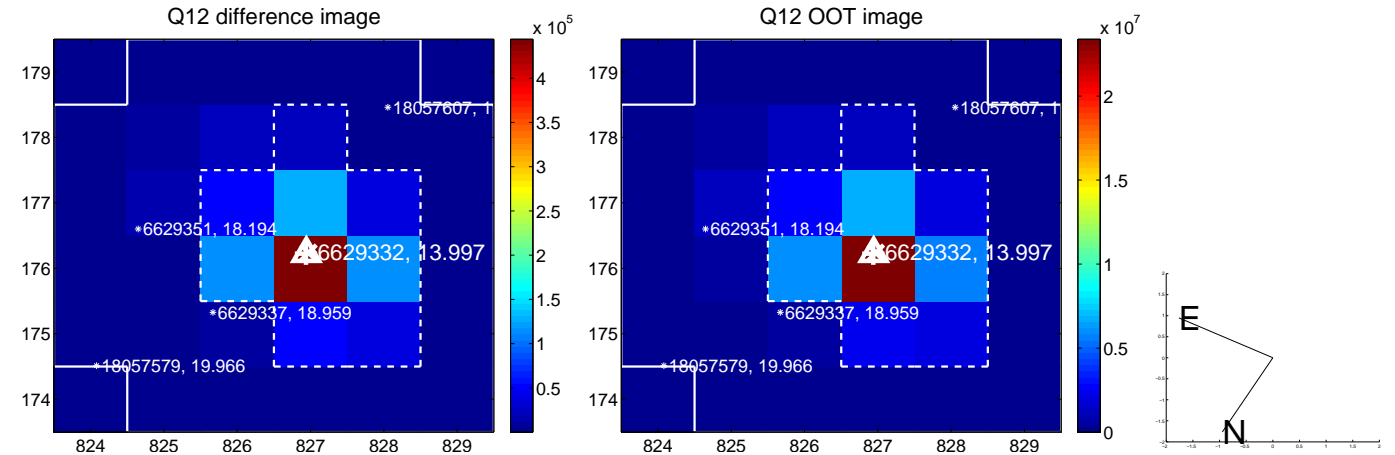
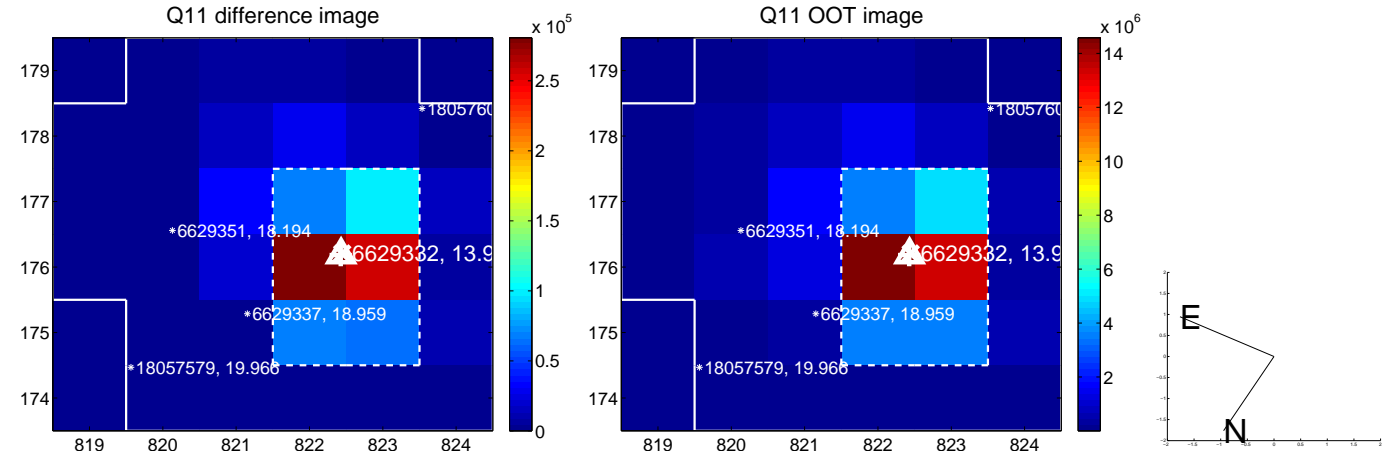
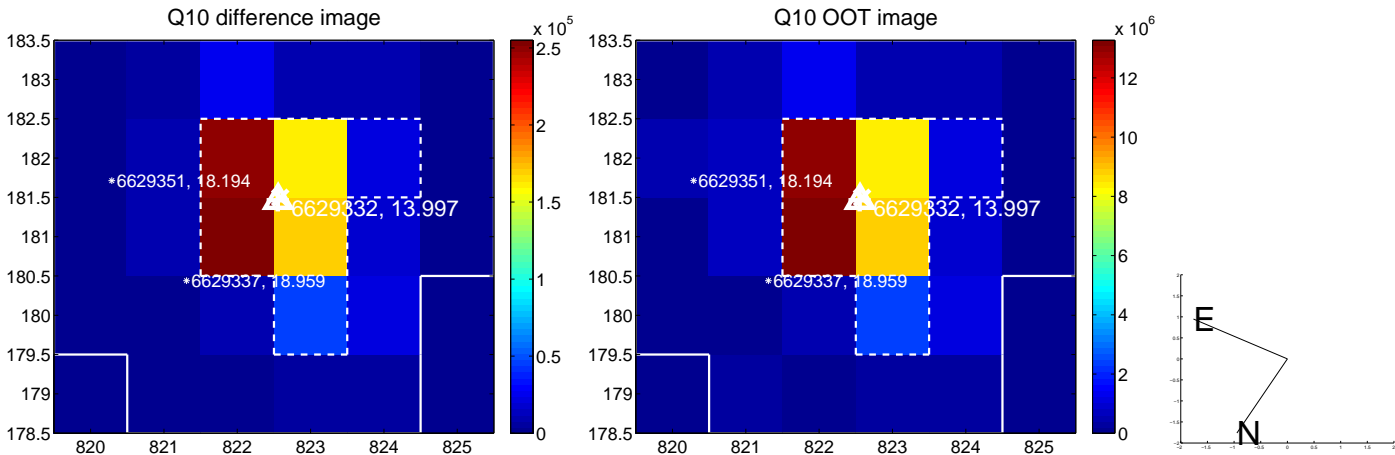
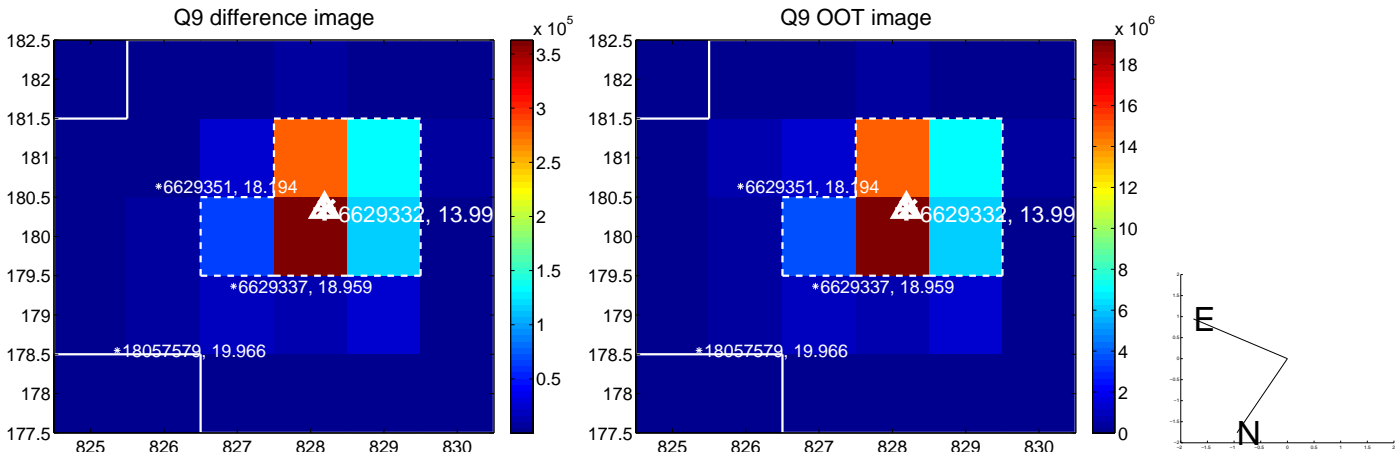
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



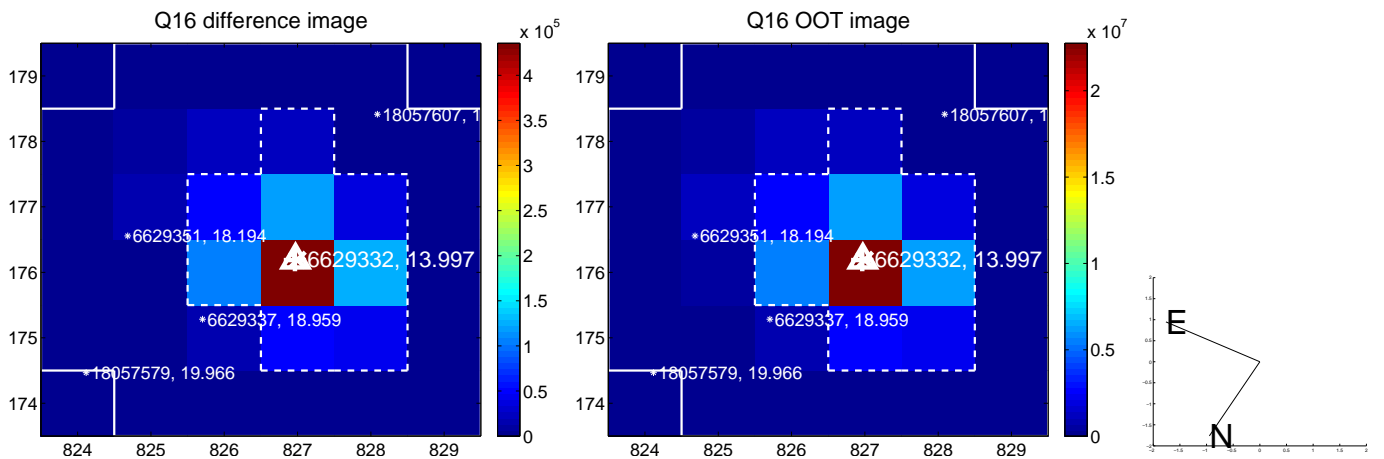
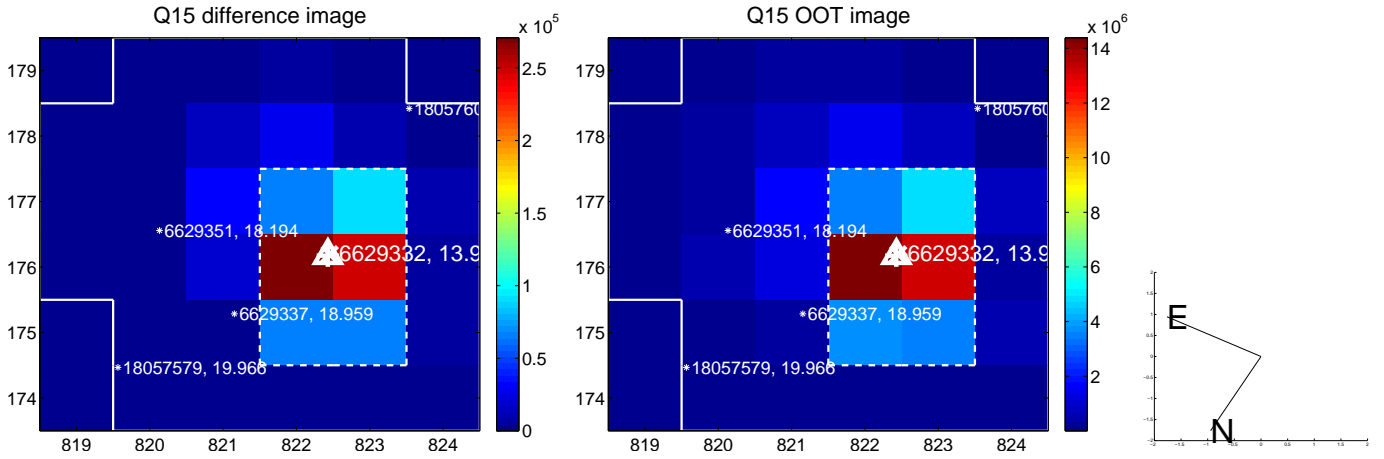
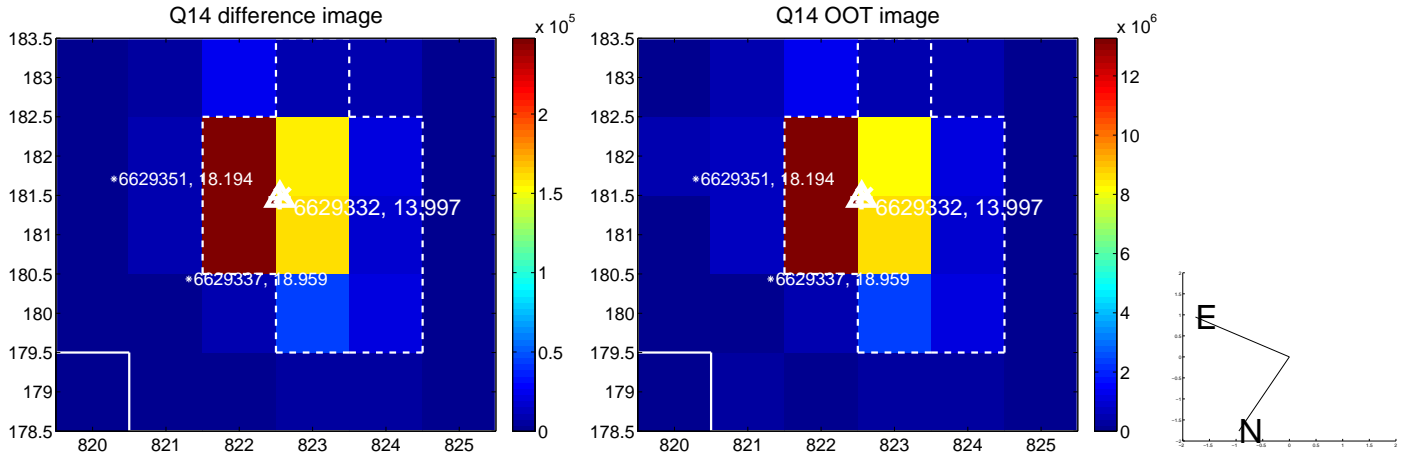
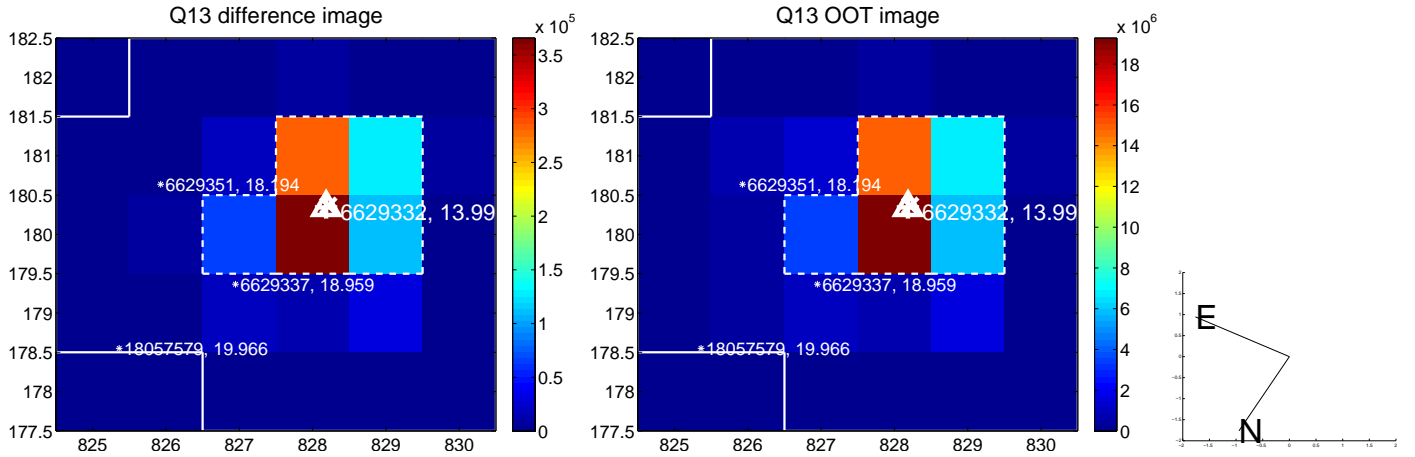
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



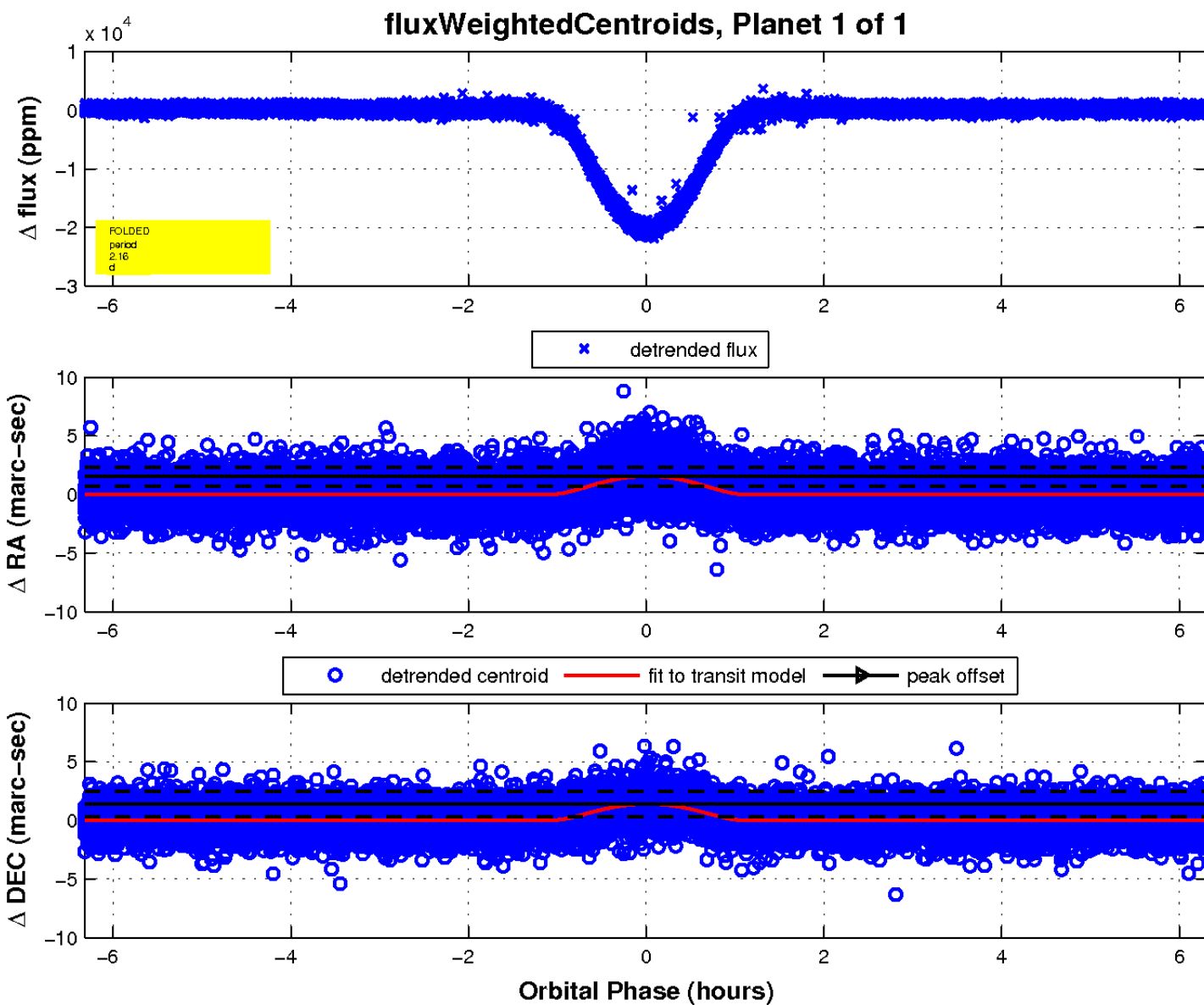
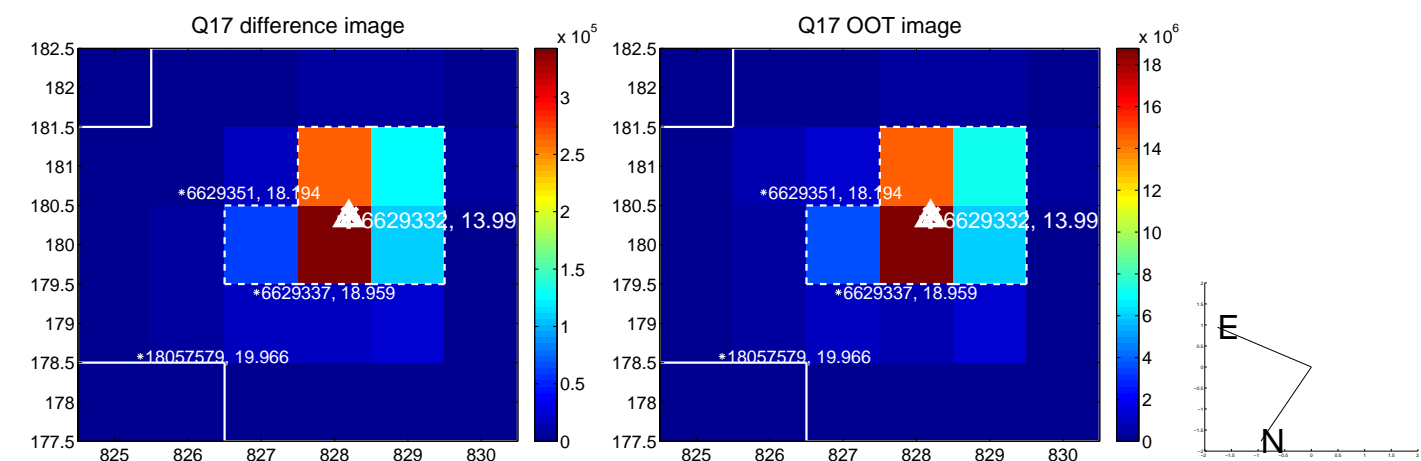
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

