

KIC 008288719

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})
008288719-01	OBS	7010.01	0.755047	132.195814	25594.8	2.074	5735.4	2500.6	0.62	5242	13.36	1372.28

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008288719-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_DV—MOD_ODDEVEN_ALT—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.

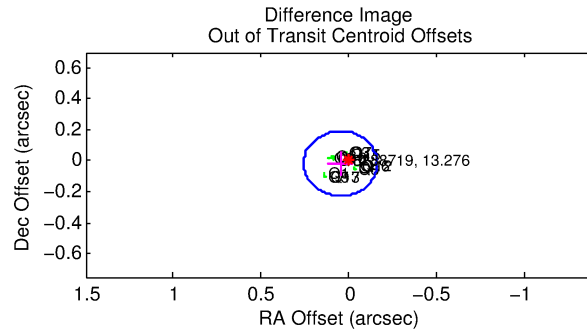
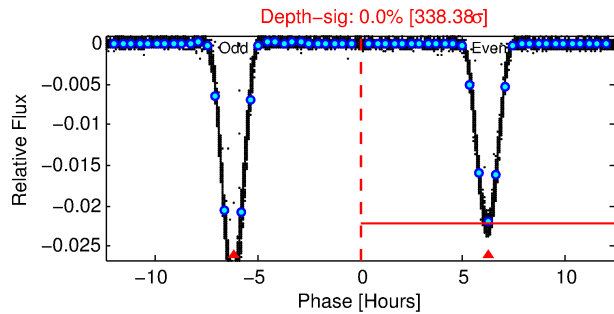
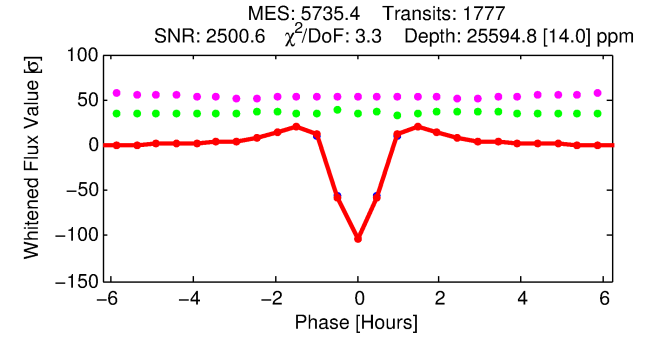
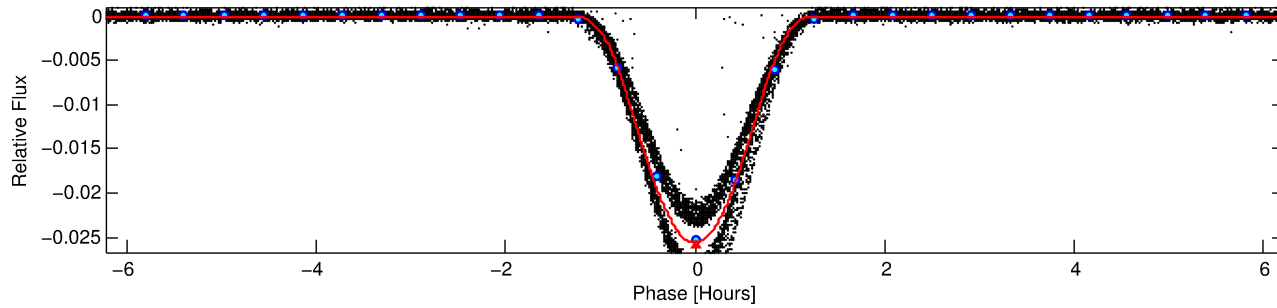
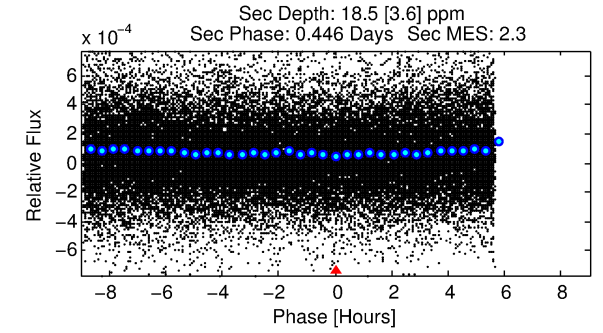
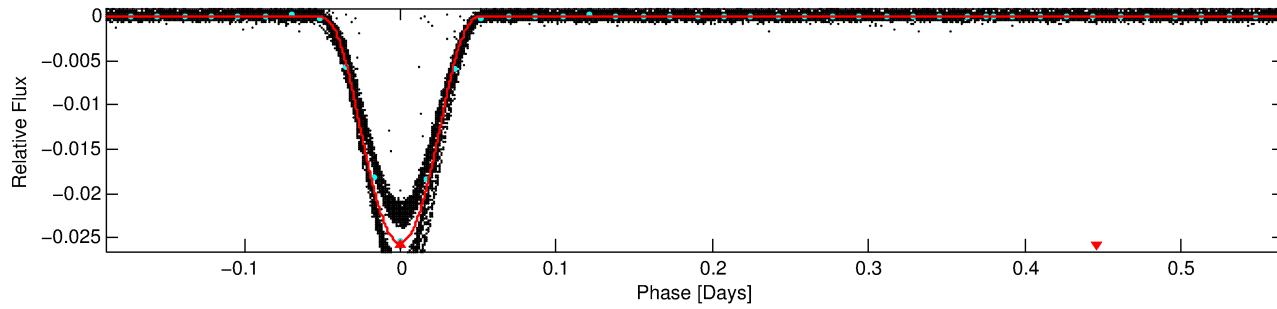
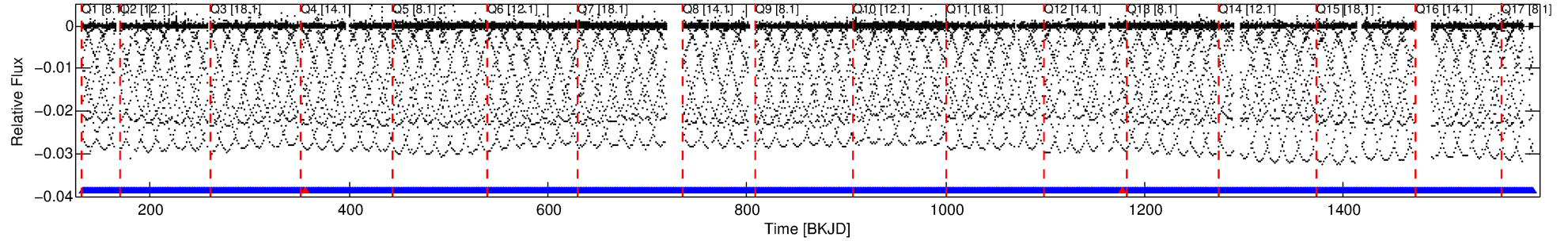
Ephemeris Match Information For 008288719-01

No Significant Match Found

DV One-Page Summary

KIC: 8288719 Candidate: 1 of 1 Period: 0.755 d
KOI: K07010.01 Corr: 0.987

Kp: 13.28 R*: 0.62 Rs Teff: 5242.0 K Logg: 4.64 Fe/H: -1.100



DV Fit Results:

Period = 0.75505 [0.00000] d
Epoch = 132.1958 [0.0000] BKJD
Rp/R* = 0.1969 [0.0014]
a/R* = 2.42 [0.00]
b = 0.90 [0.00]
Seff = 1372.28 [225.83]
Teq = 1552 [64] K
Rp = 13.36 [1.04] Re
a = 0.0138 [0.0010] AU
Ag = 0.01 [0.00] [-401.48 σ]
Teff = 774 [45] K [-9.99 σ]

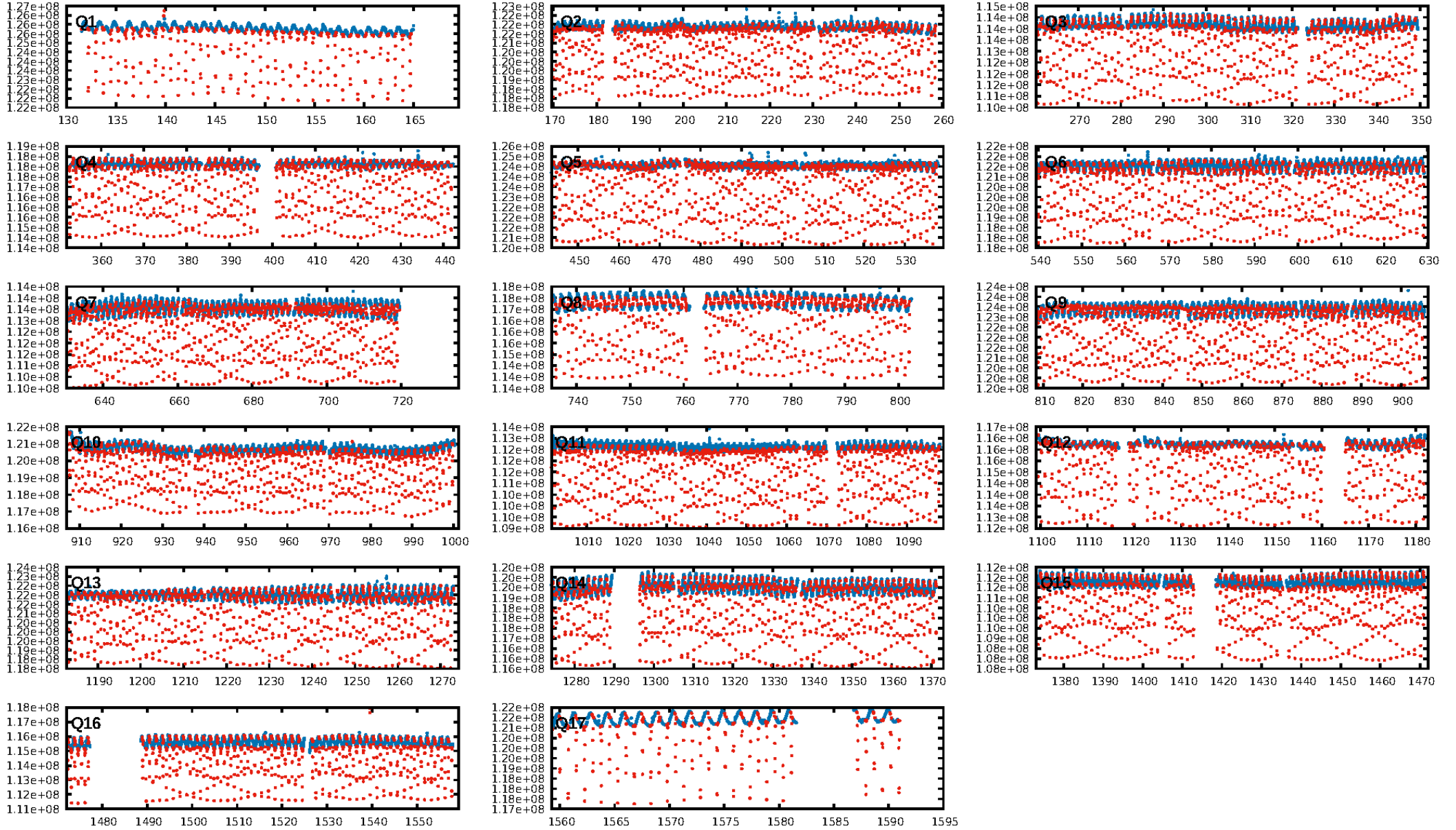
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [1695/1697]
GhostDiagnostic-chr: 1.55
Centroid-sig: 0.0%
Centroid-so: 0.067 arcsec [59.56 σ]
OotOffset-rm: 0.052 arcsec [0.75 σ]
KicOffset-rm: 0.072 arcsec [1.05 σ]
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]

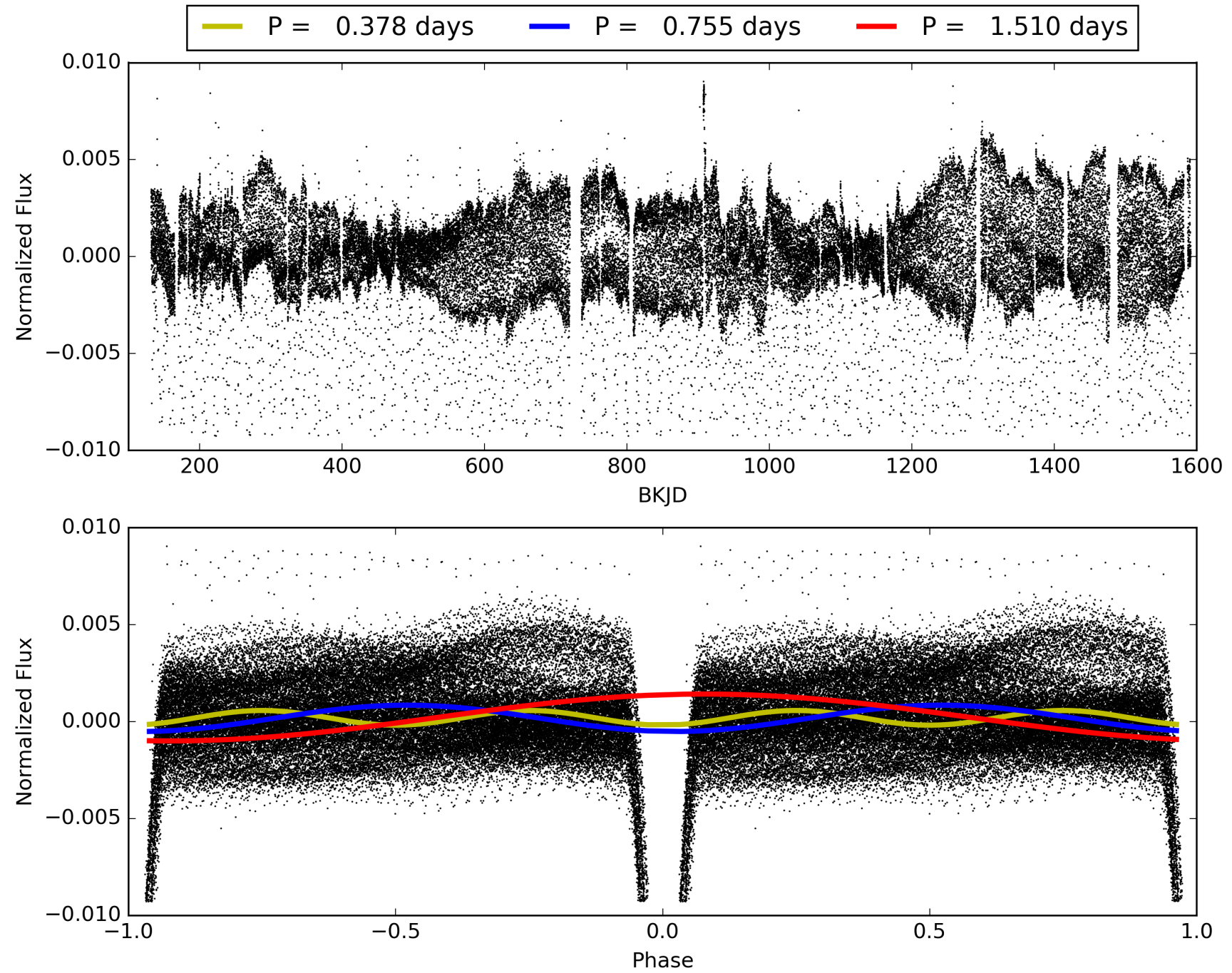
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 04:00:58 Z

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

TCE 008288719-01, PDC Light Curves

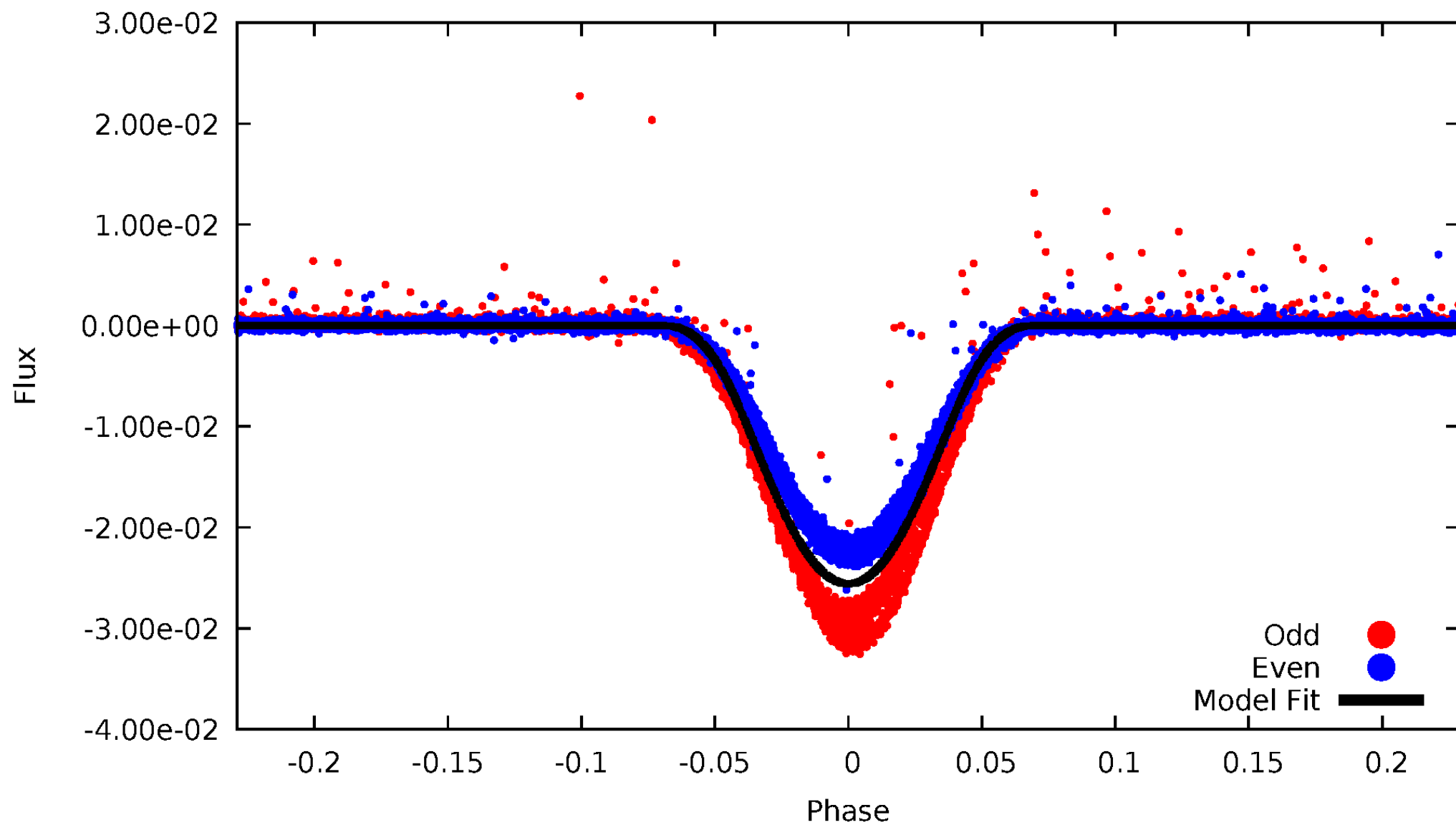


TCE 008288719-01



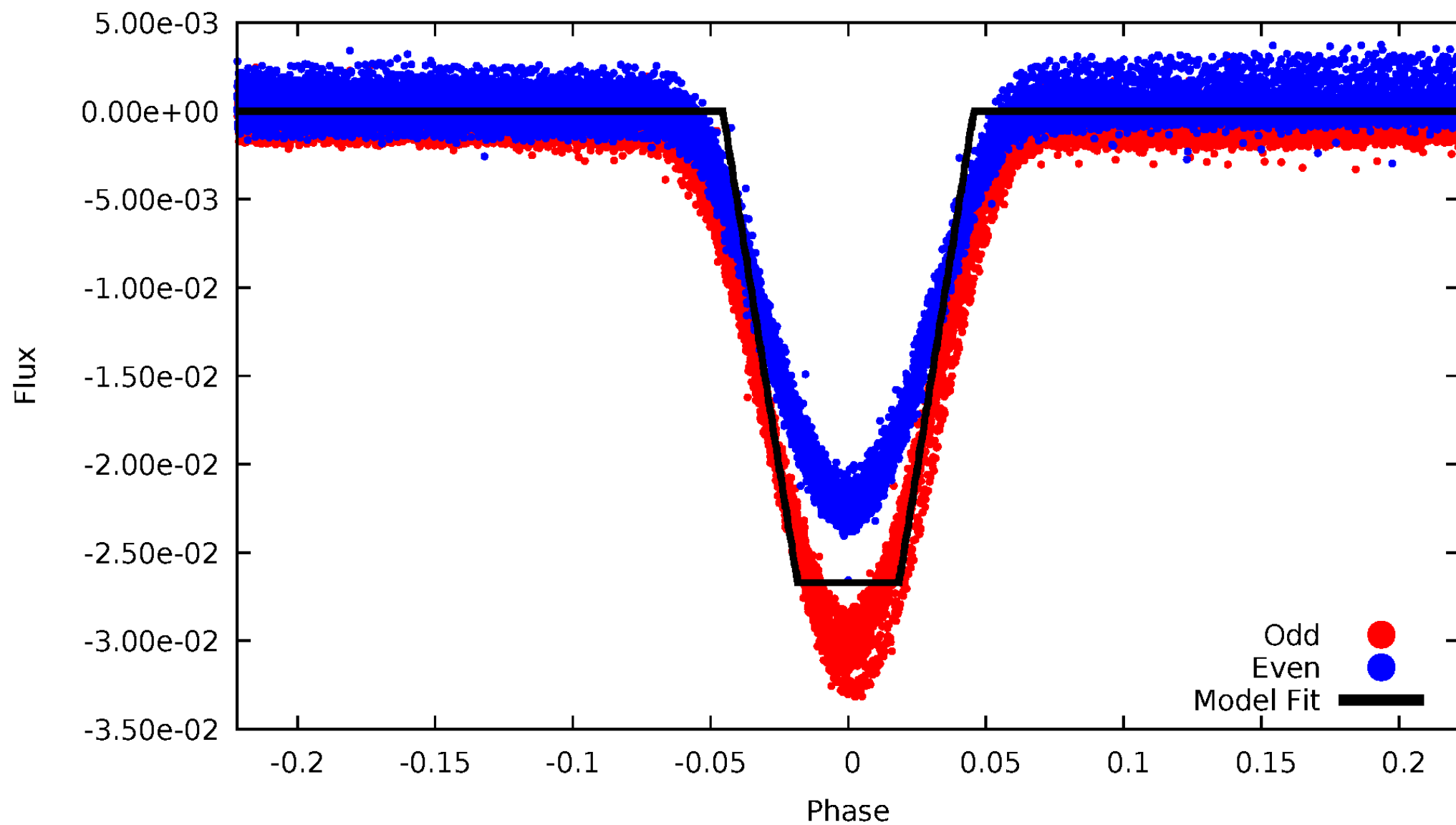
DV Odd/Even

TCE 008288719-01



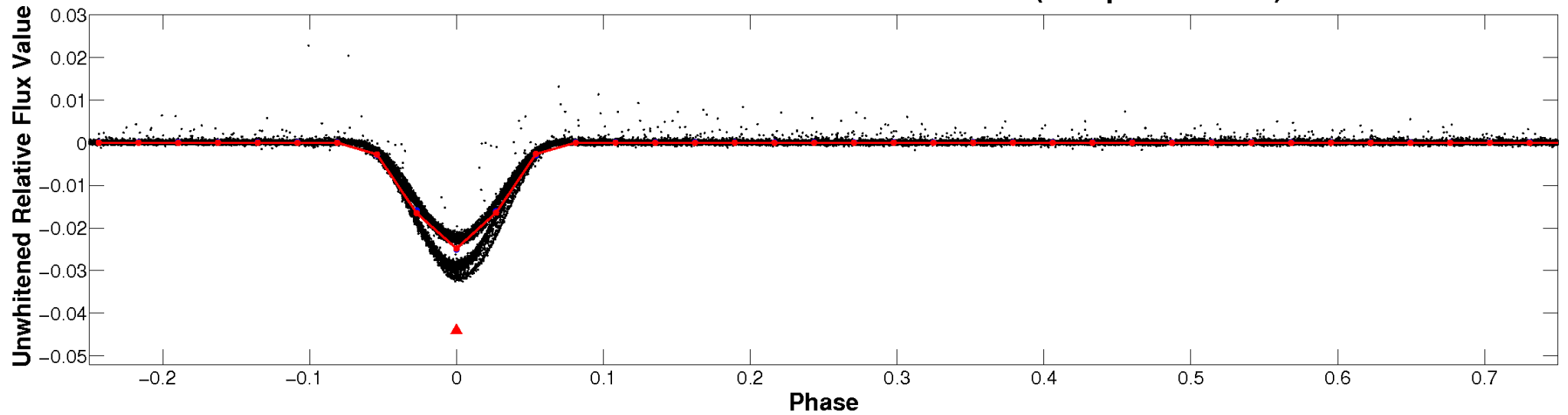
ALT Odd/Even

TCE 008288719-01

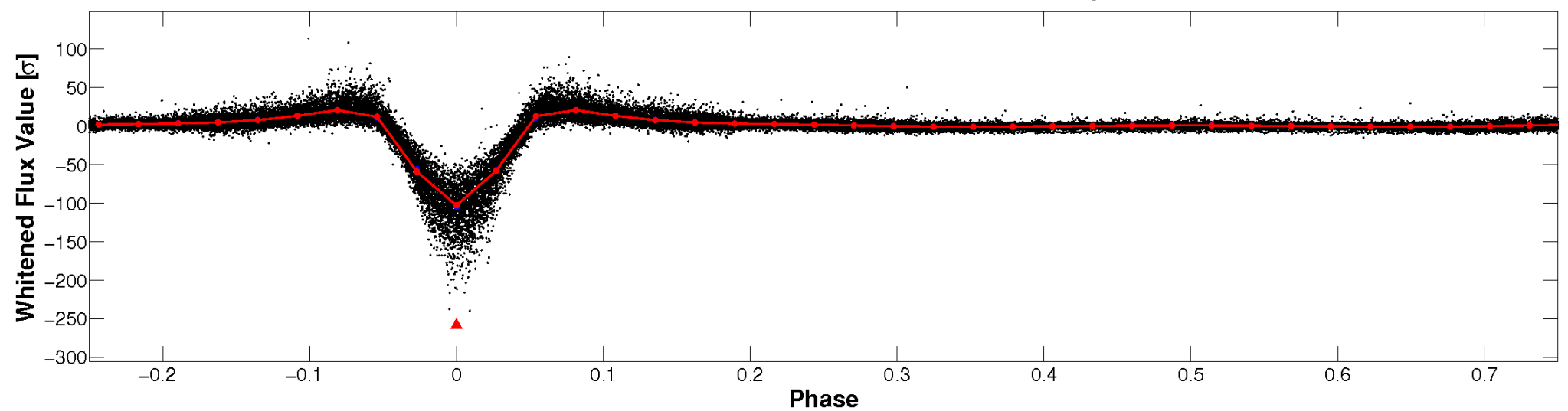


Non-Whitened Vs. Whitened Light Curve

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

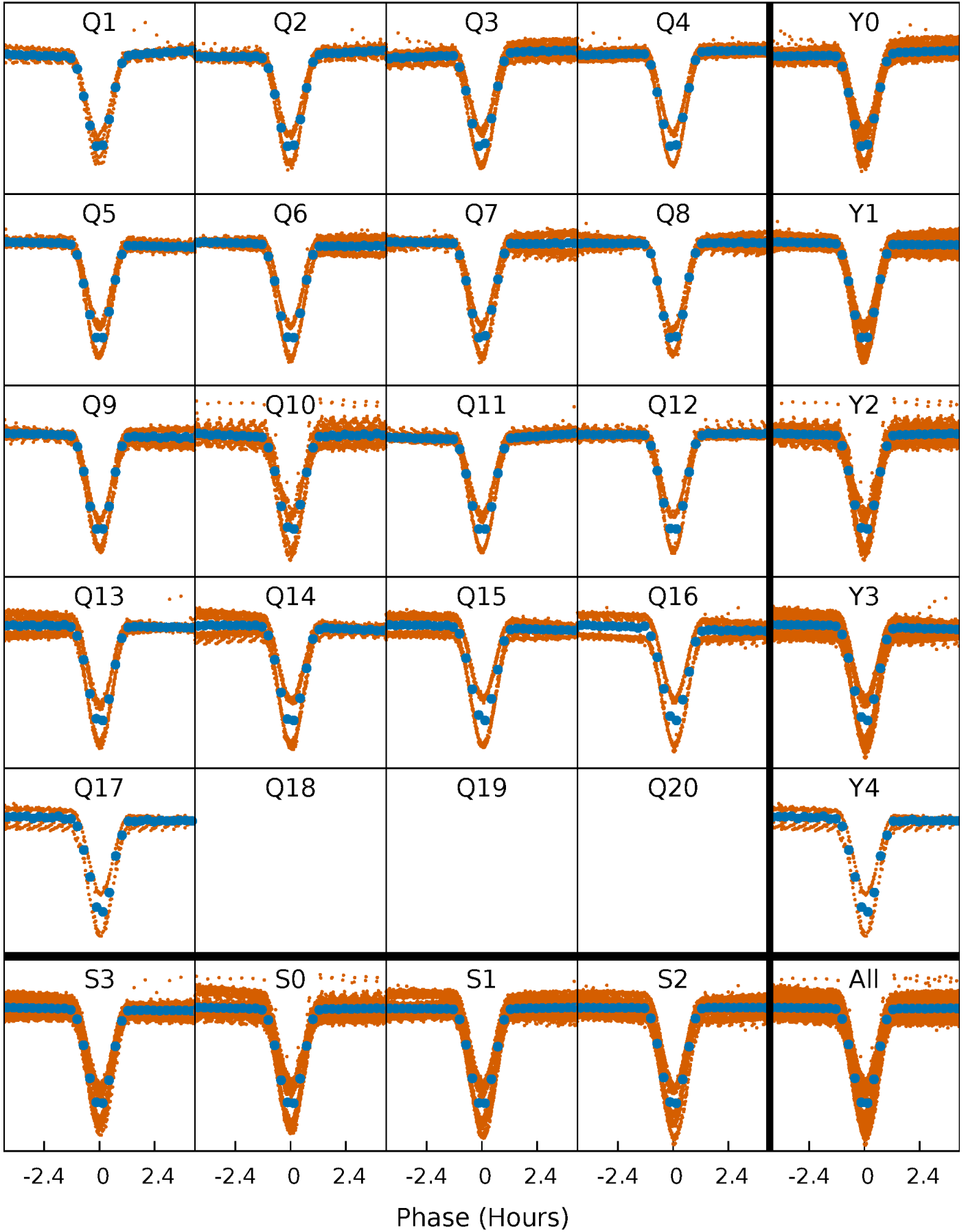


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



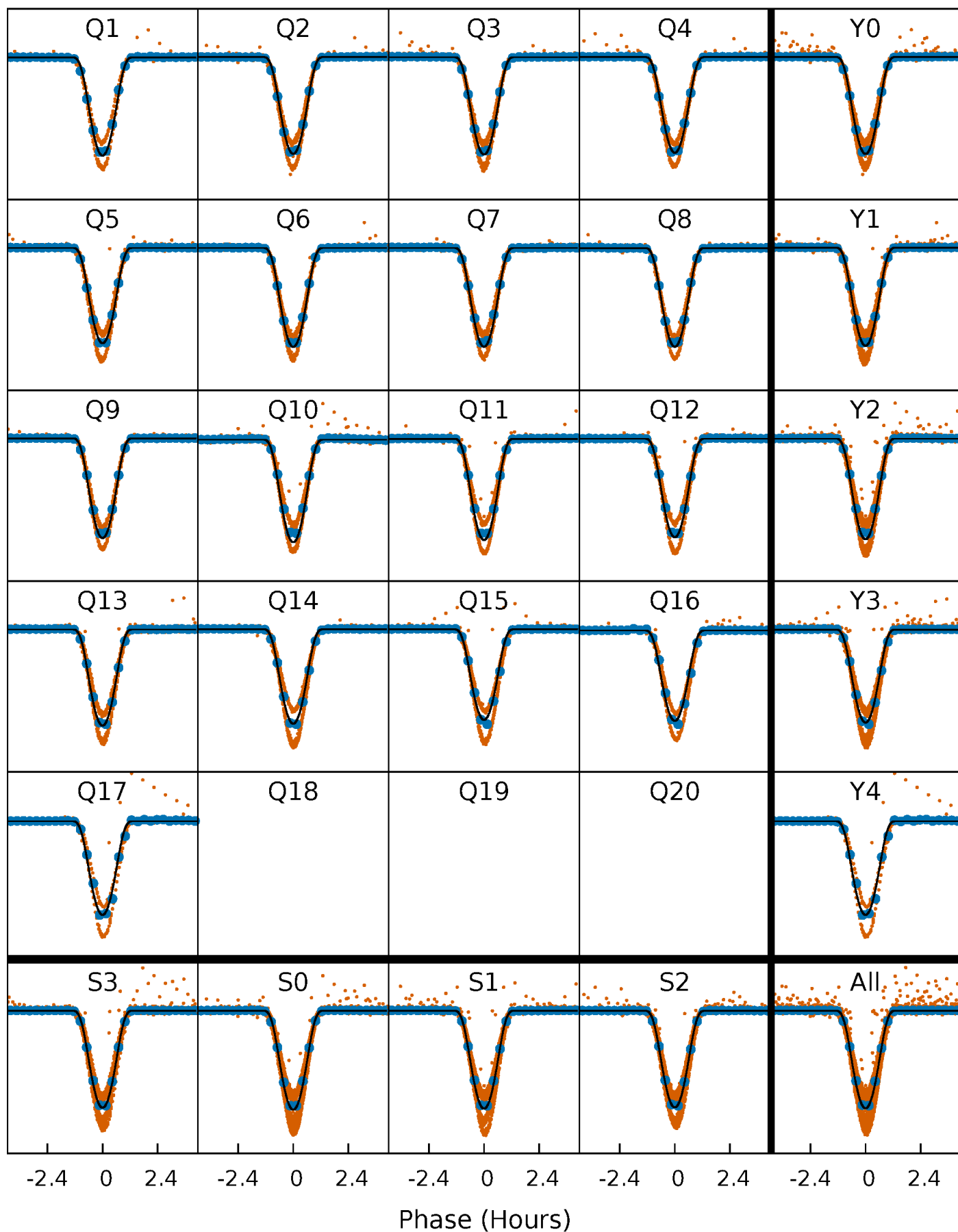
PDC Quarter-Phased Transit Curves

TCE 008288719-01 P= 0.755047 Days $T_0=132.195814$ (BKJD)



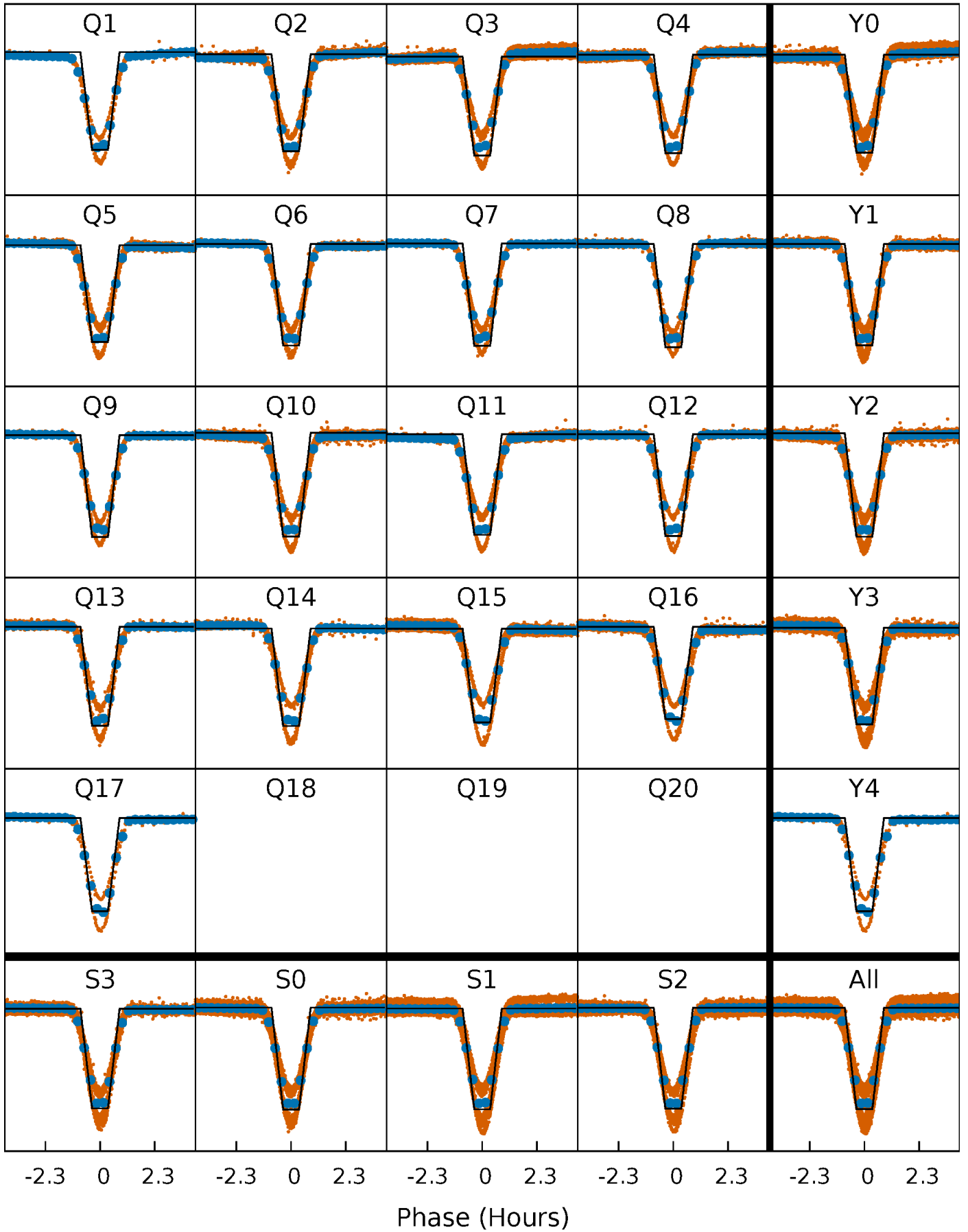
DV Quarter-Phased Transit Curves

TCE 008288719-01 P= 0.755047 Days $T_0=132.195814$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

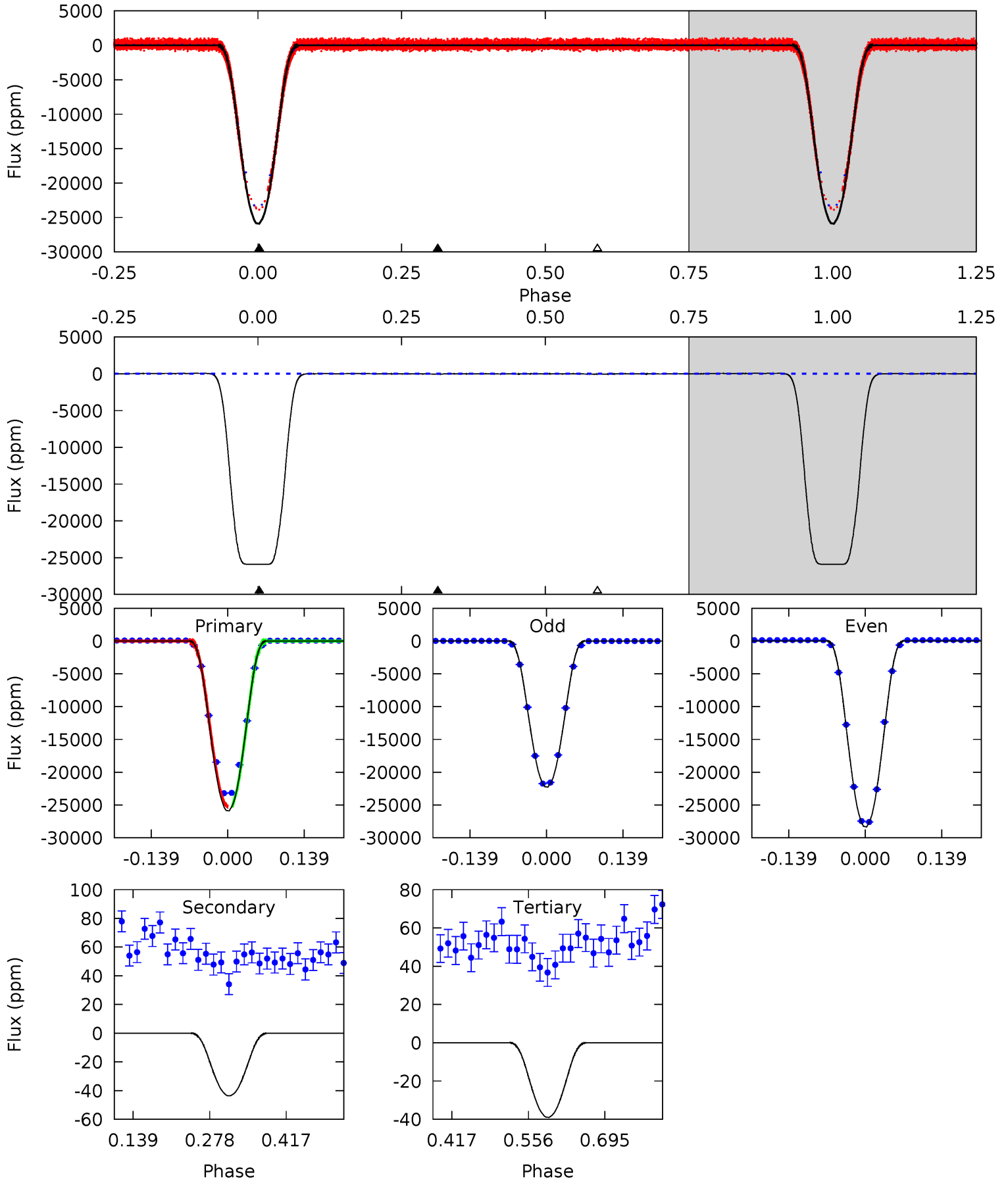
TCE 008288719-01 P= 0.755048 Days $T_0=132.195233$ (BKJD)



DV Model-Shift Uniqueness Test

008288719-01, P = 0.755047 Days, E = 131.440767 Days

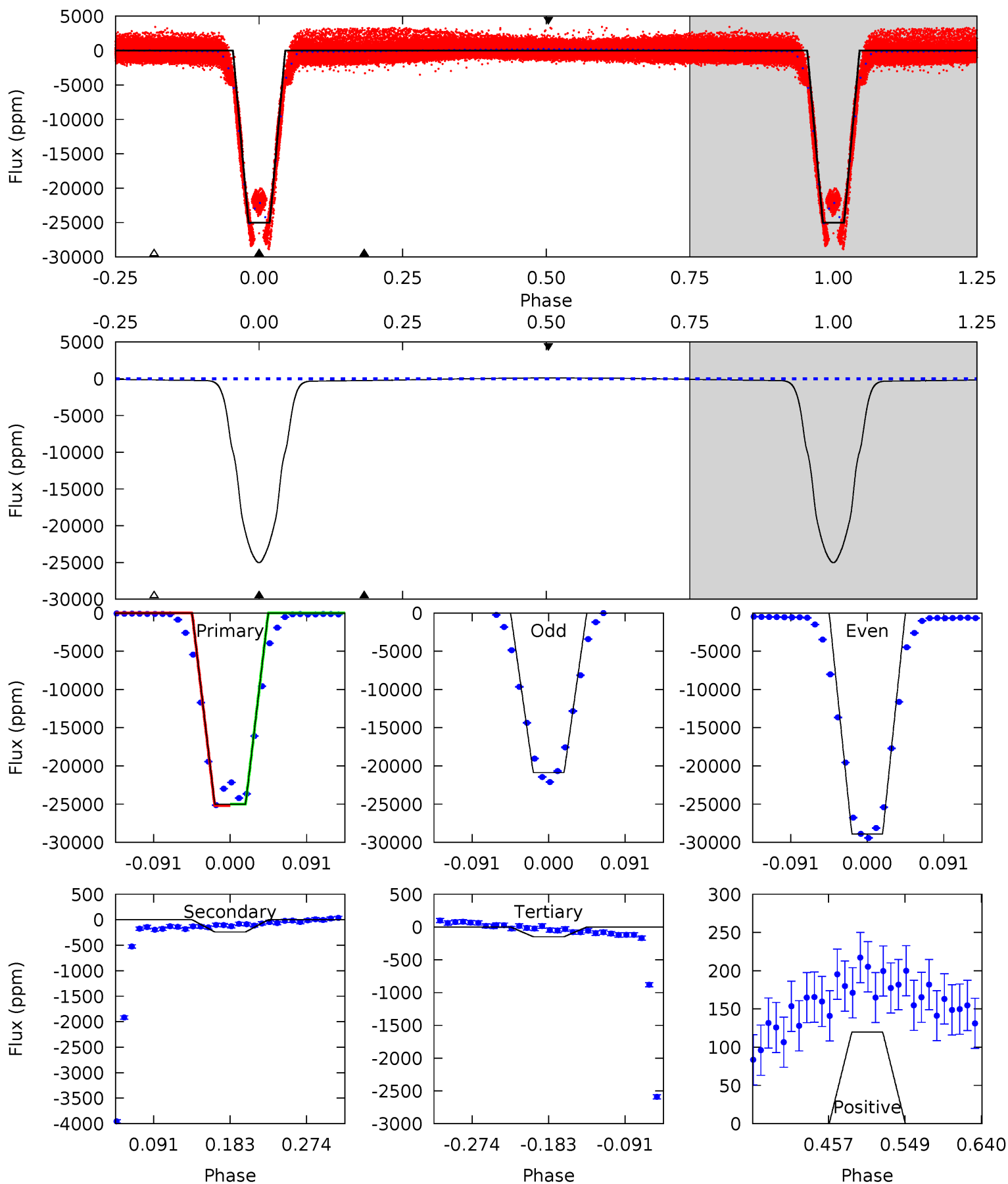
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7047	11.9	10.6	0	4.50	1.48	6.60	7036	7047	1.26	11.9	1059	1.07	0.00	0



Alt Model-Shift Uniqueness Test

008288719-01, P = 0.755048 Days, E = 131.440185 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1904	18.3	11.3	9.12	4.58	1.69	8.18	1893	1895	7.03	9.20	350.1	0.97	0.00	6.97



Stellar Parameters For KIC 008288719

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5242^{+156}_{-156}	$4.640^{+0.066}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.622^{+0.048}_{-0.043}$	$0.616^{+0.053}_{-0.023}$	$3.600^{+0.862}_{-0.520}$
	+3%/-3%	+1%/-1%	+27%/-27%	+8%/-7%	+9%/-4%	+24%/-14%
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 008288719-01 / KOI 7010.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-44 ± 4	$13.32^{+0.59}_{-0.55}$	2157^{+77}_{-77}	-2548^{+52}_{-50}	$0.026^{+0.003}_{-0.003}$
Alt.	-241 ± 13	$11.05^{+0.49}_{-0.45}$	2152^{+75}_{-72}	-2238^{+94}_{-71}	$0.209^{+0.022}_{-0.018}$

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 $A_{obs} \gg 1.0$

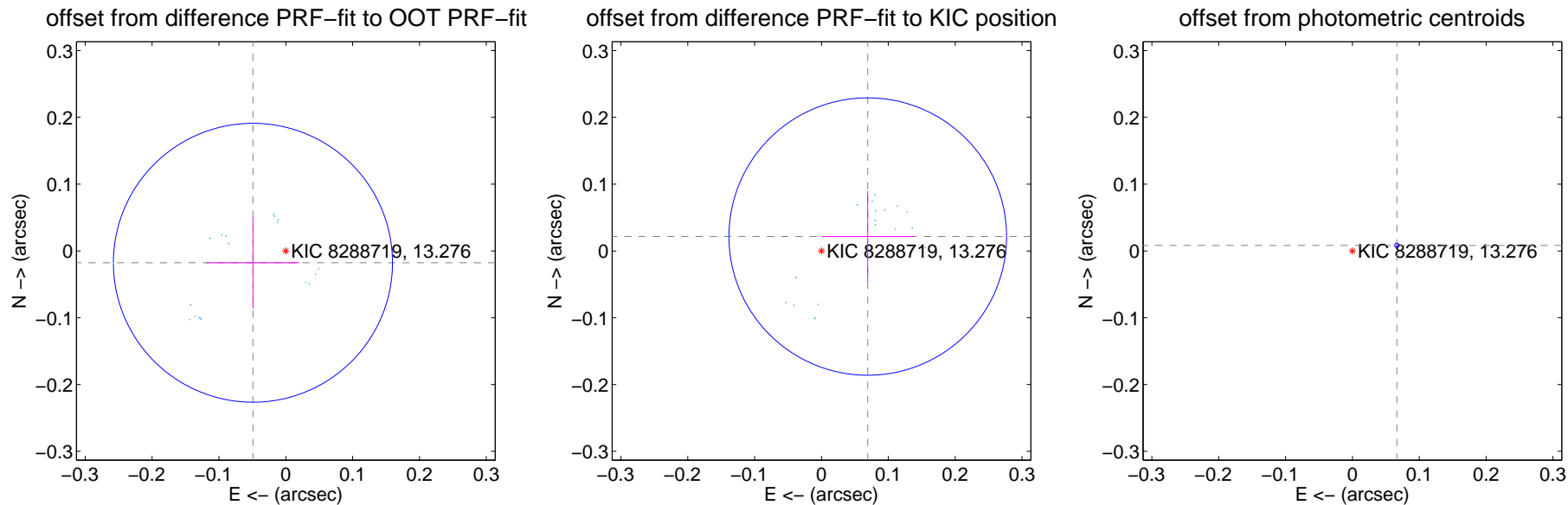
DV Centroid Data

Supplemental centroid analysis for 008288719-01. Kepler magnitude: 13.28. Transit SNR 2500.64

There are 17 quarters with good PRF difference image offsets

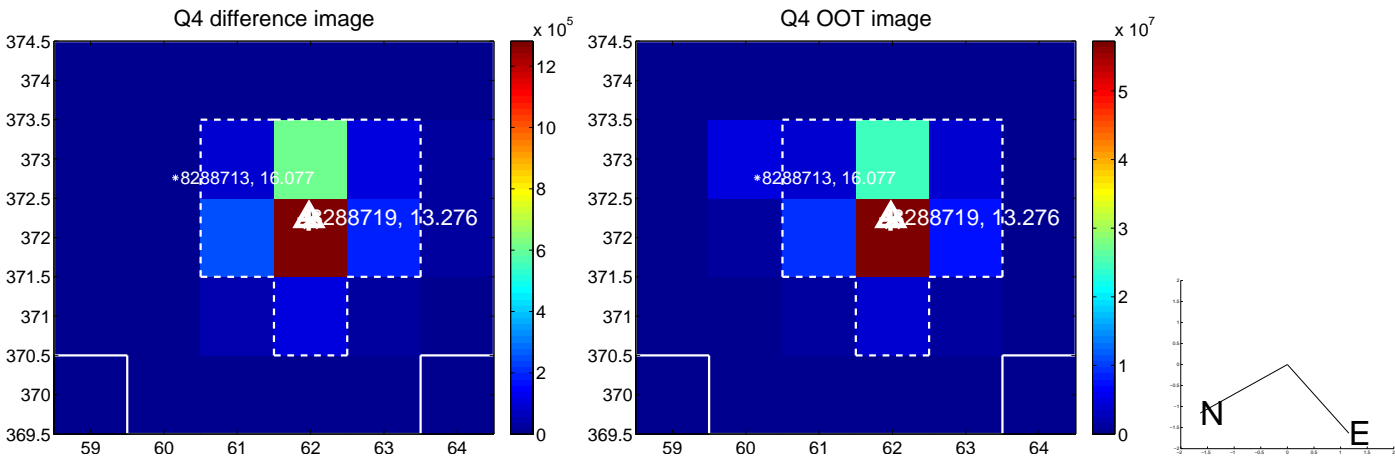
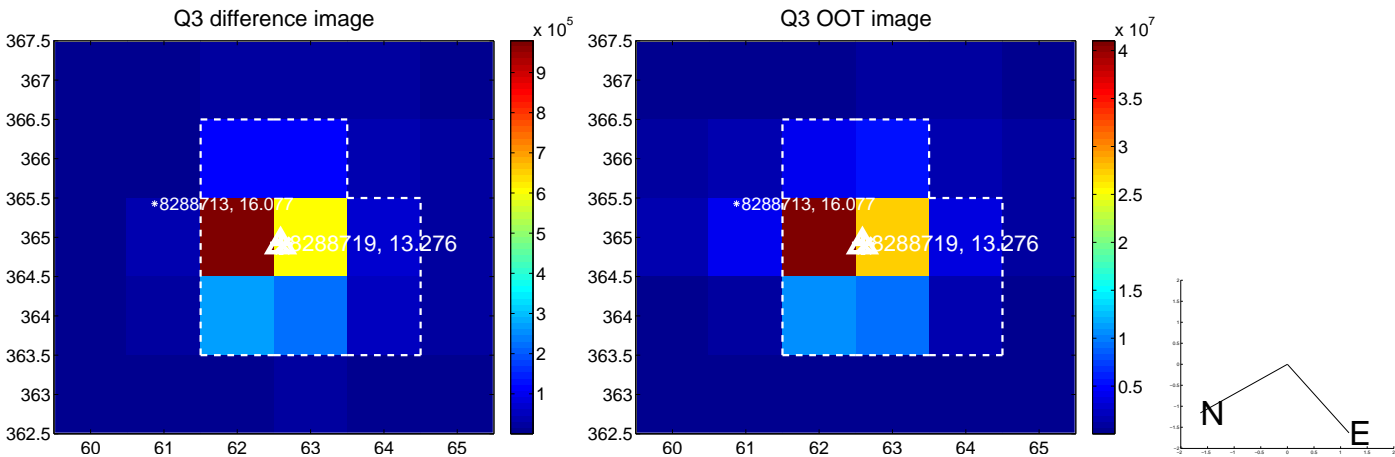
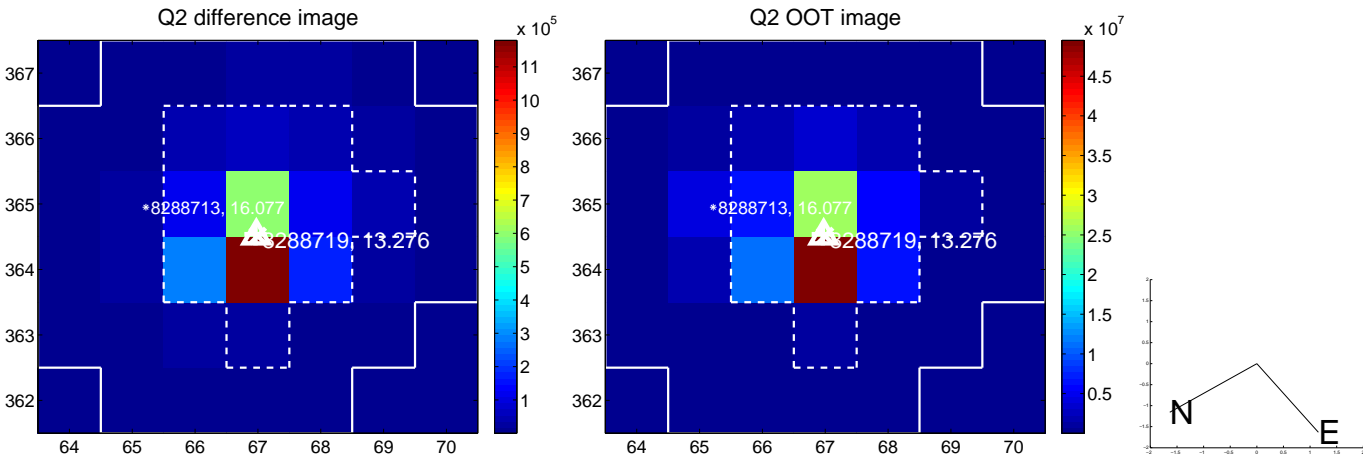
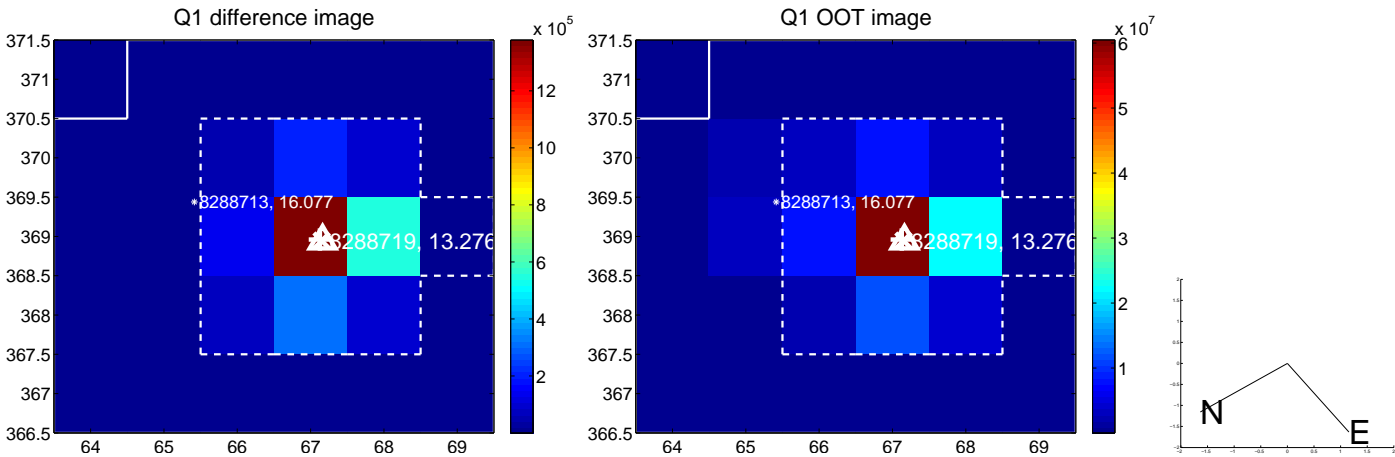
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.052 ± 0.070	0.75	0.049 ± 0.070	-0.018 ± 0.069
PRF-fit source offset from KIC position	0.072 ± 0.069	1.05	-0.069 ± 0.069	0.022 ± 0.068
photometric centroid source offset	0.07 ± 0.00	59.56	-0.07 ± 0.00	0.01 ± 0.00

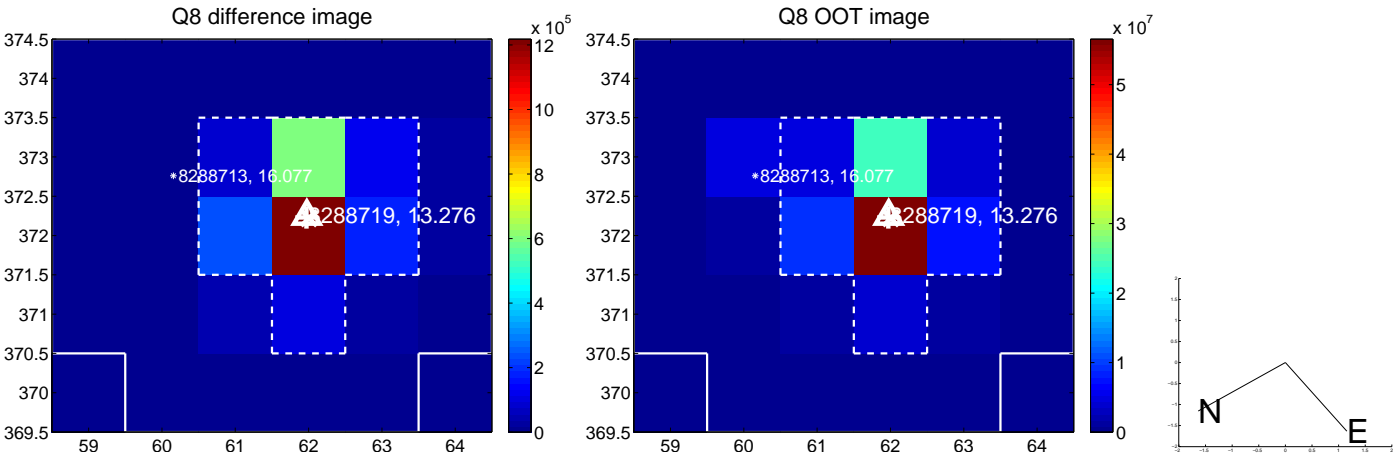
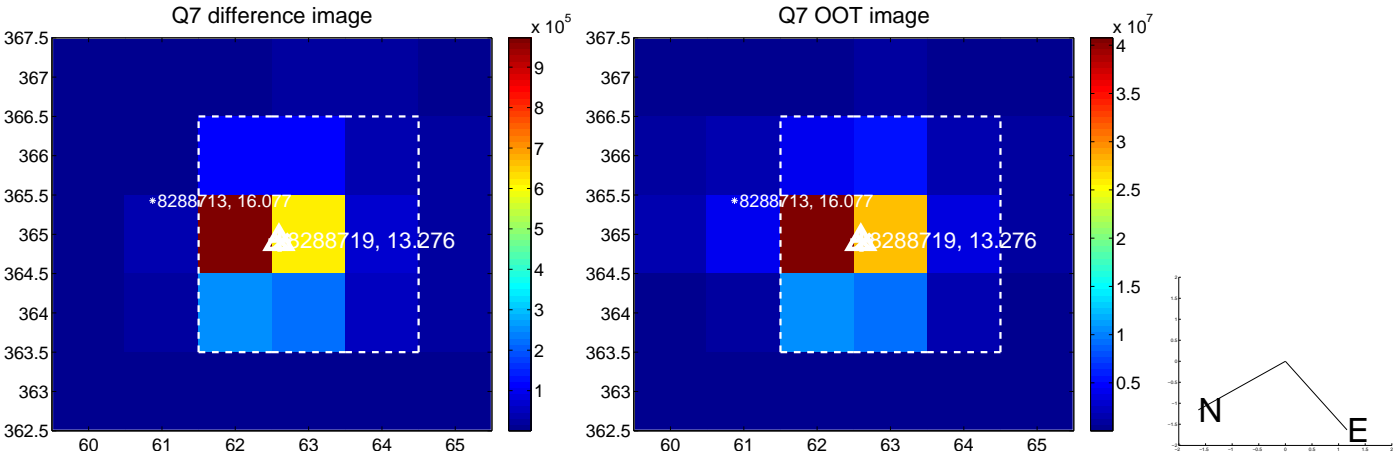
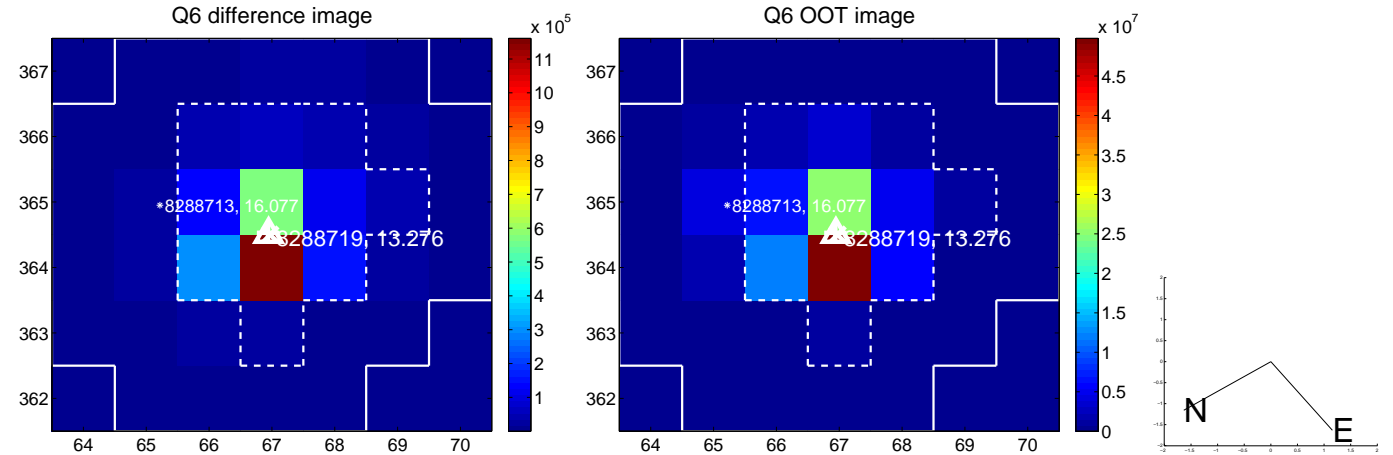
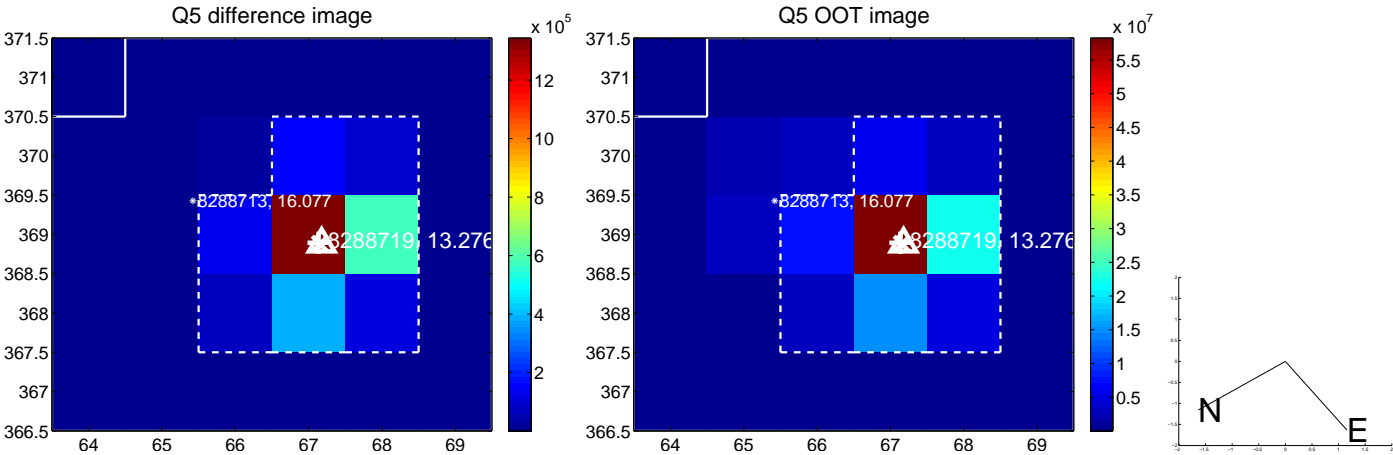


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

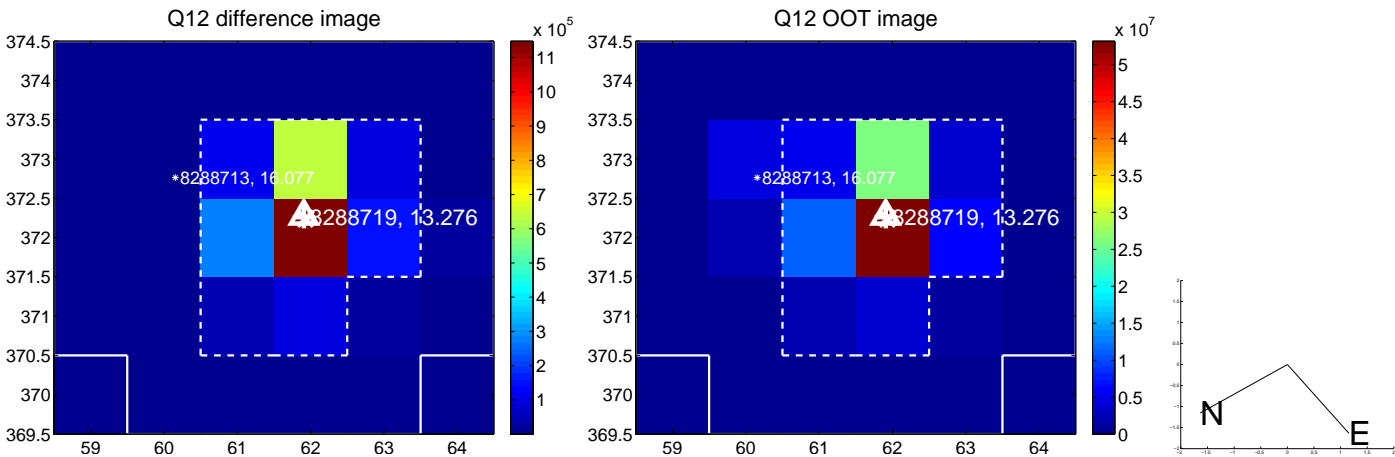
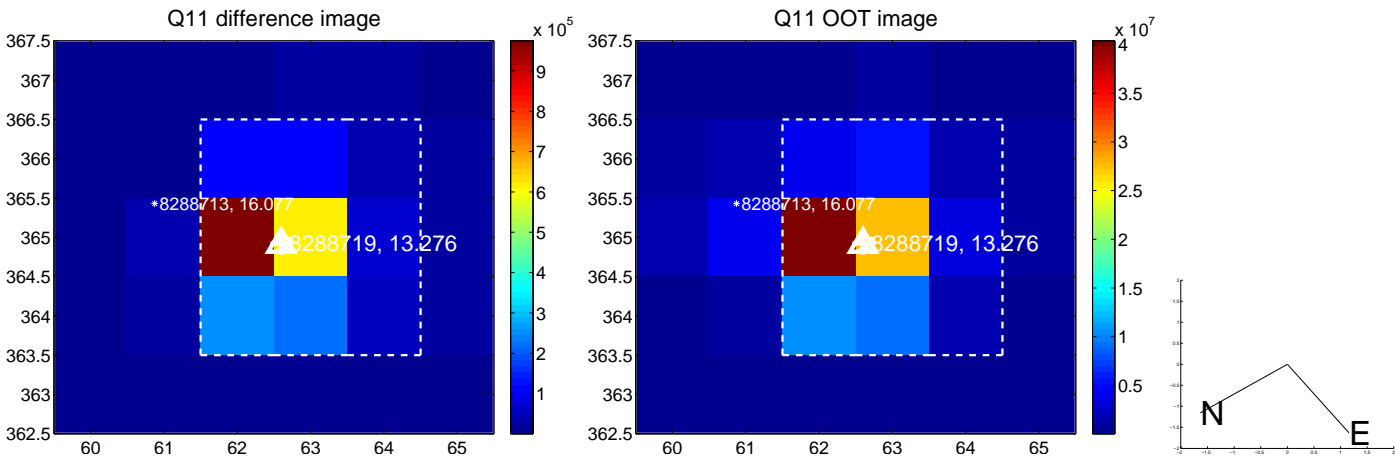
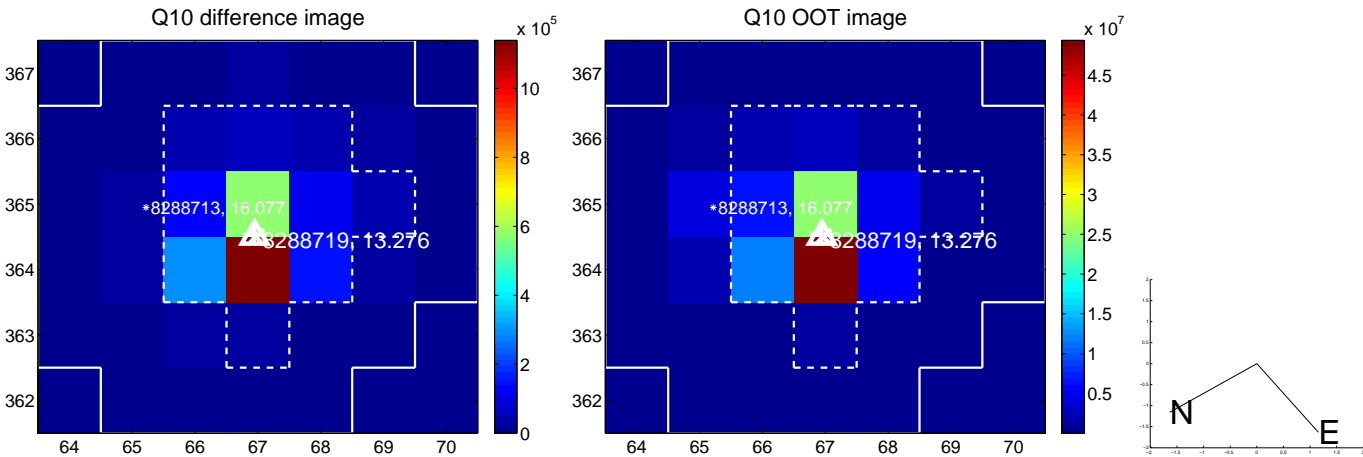
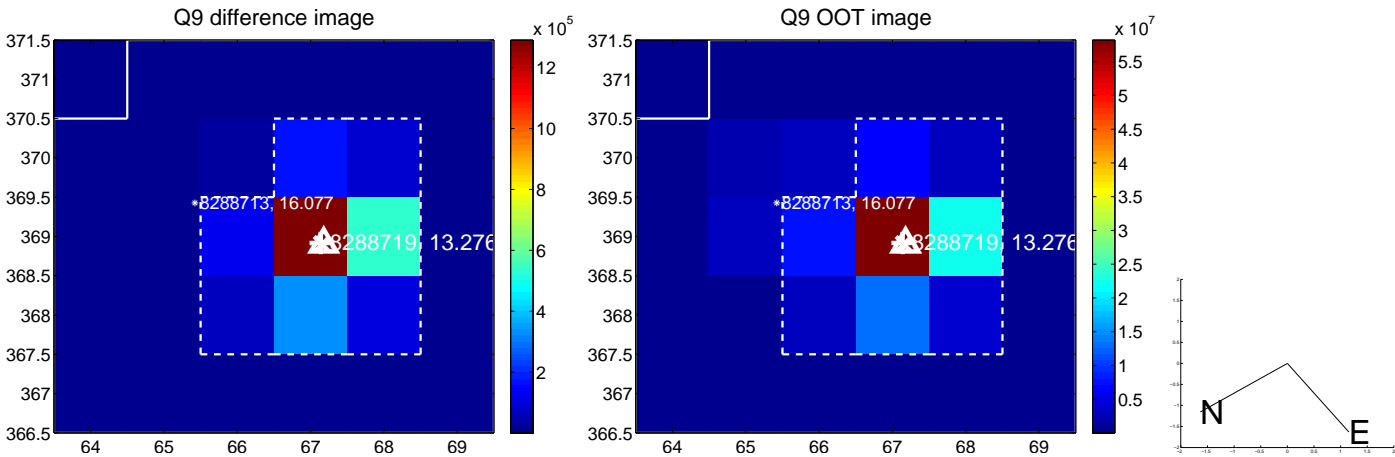
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



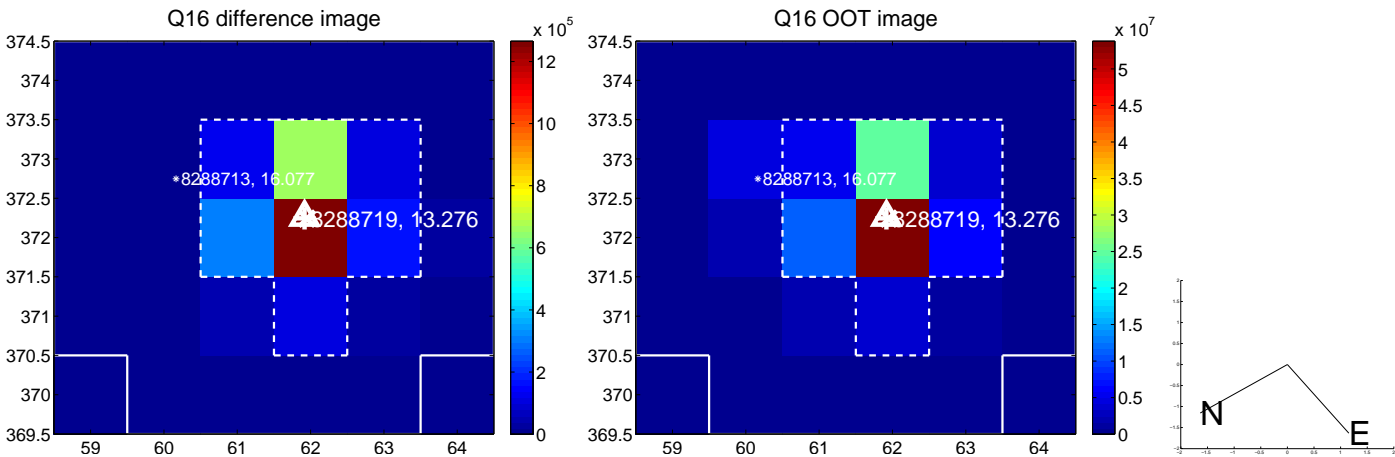
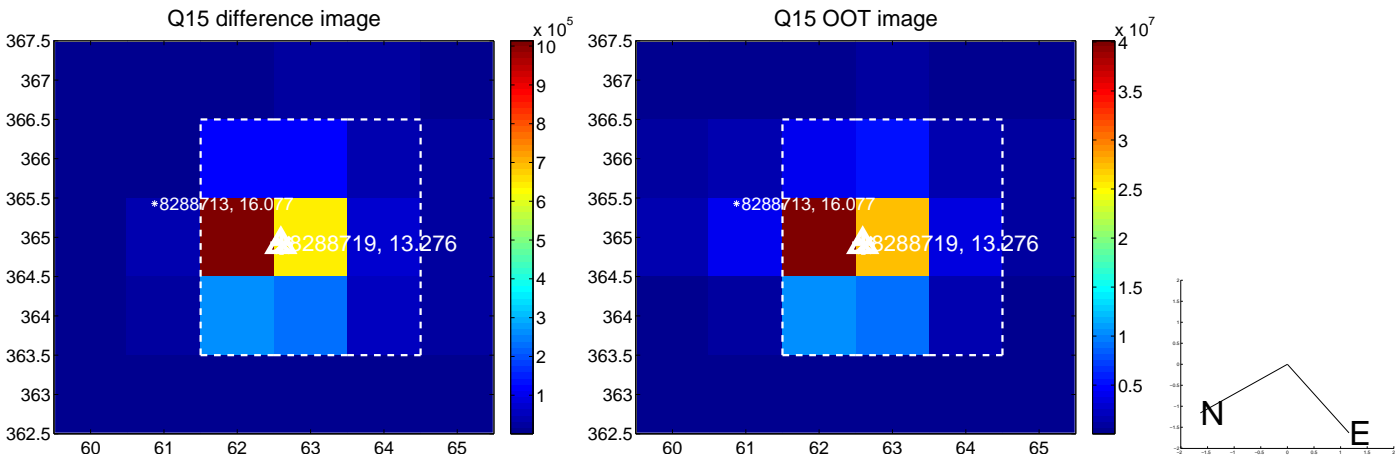
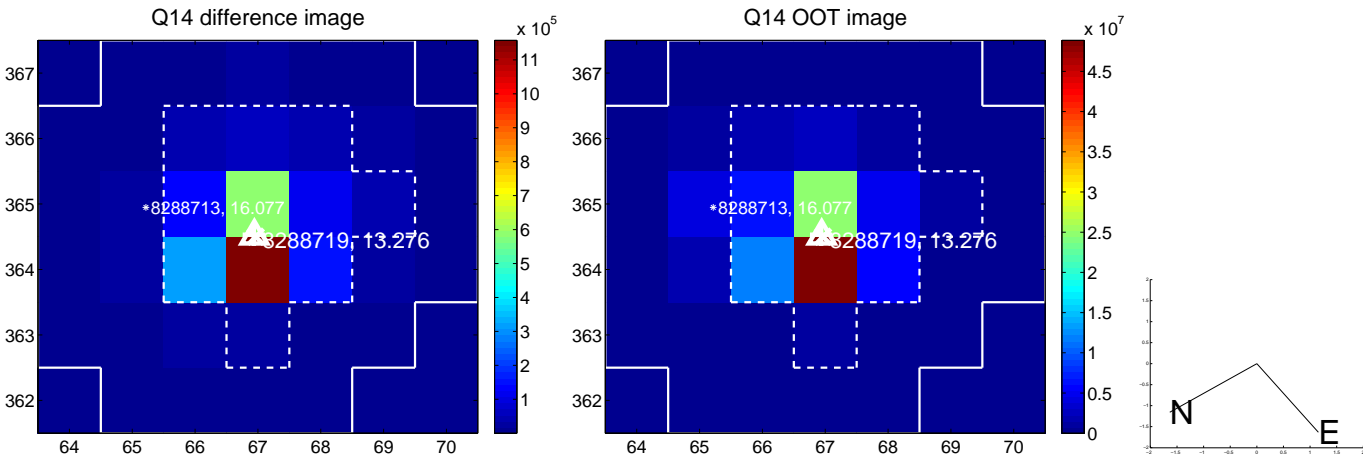
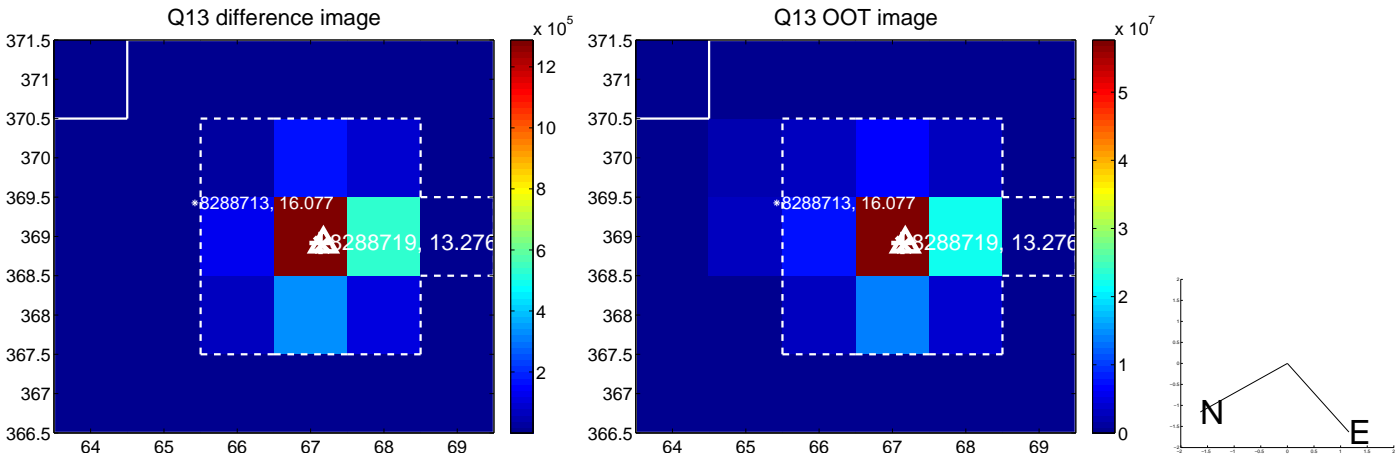
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



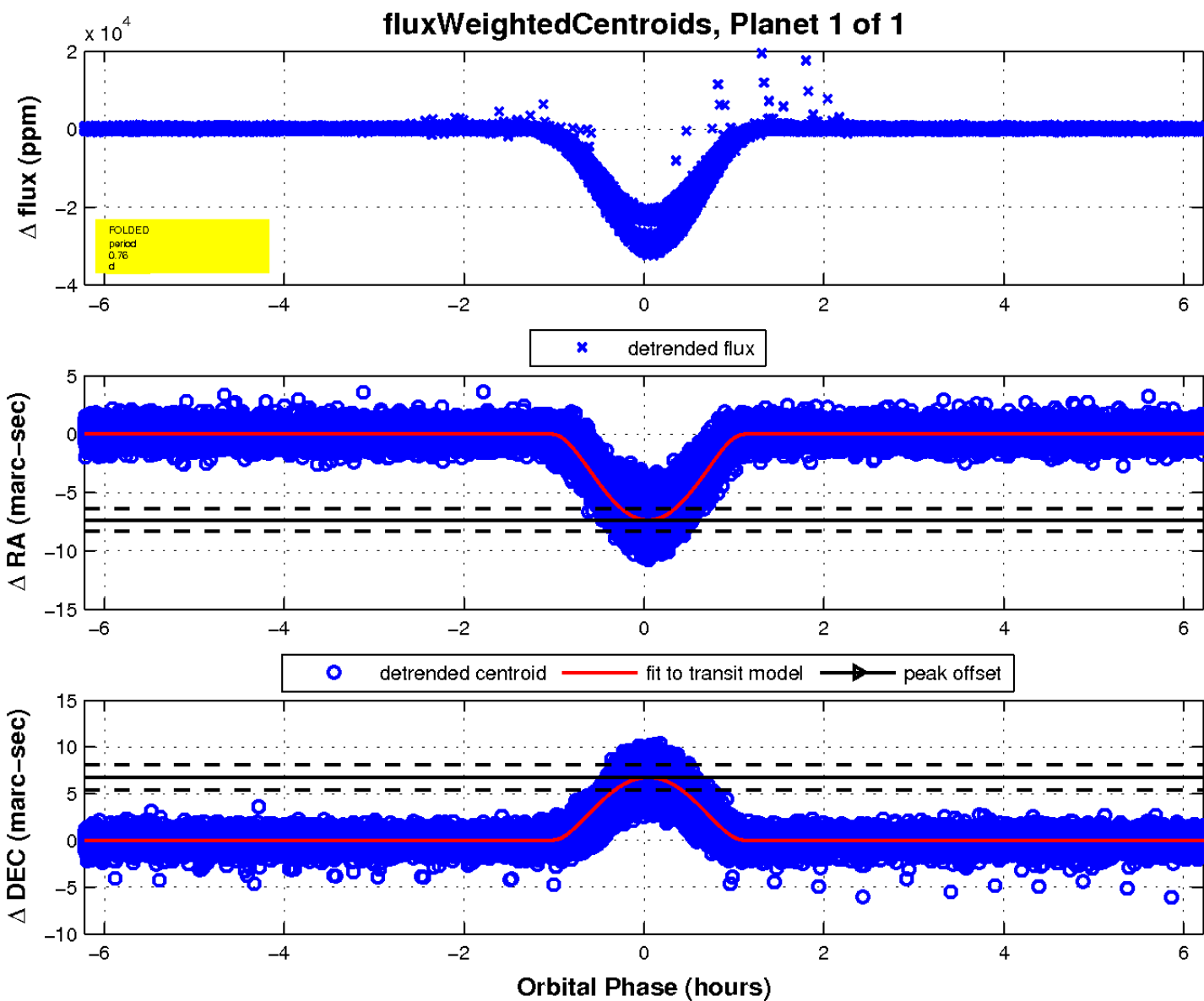
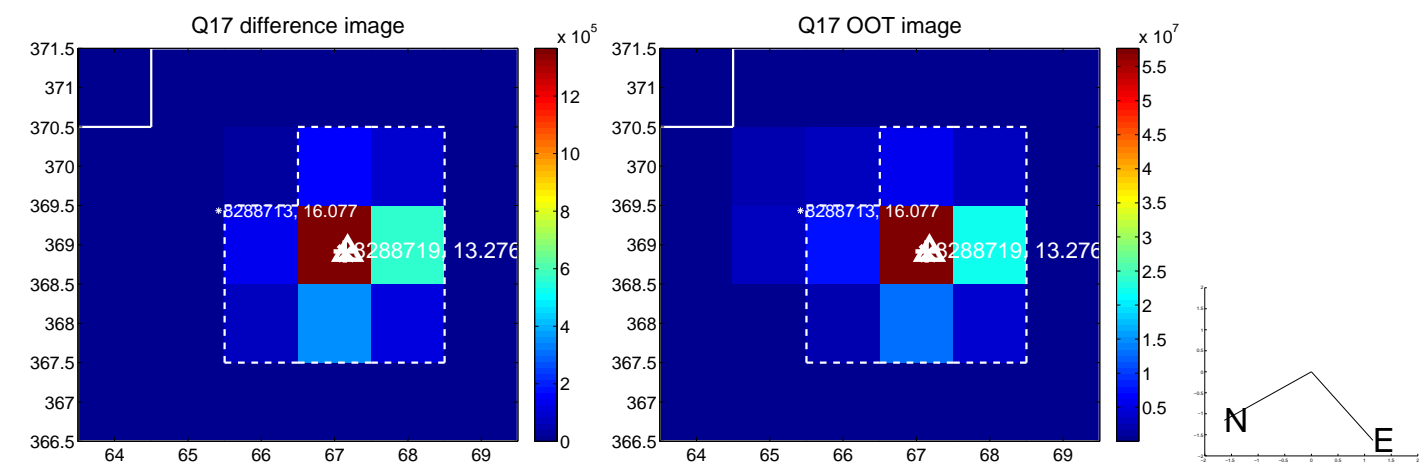
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

