

KIC 003329204

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})
003329204-01	OBS	1095.01	51.598095	152.381739	5910.2	2.318	82.0	78.7	0.86	5681	7.55	9.63

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003329204-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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 003329204-01

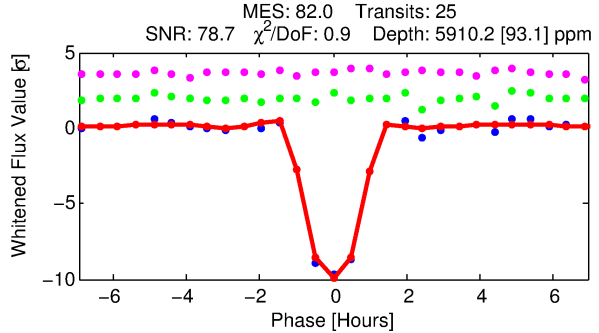
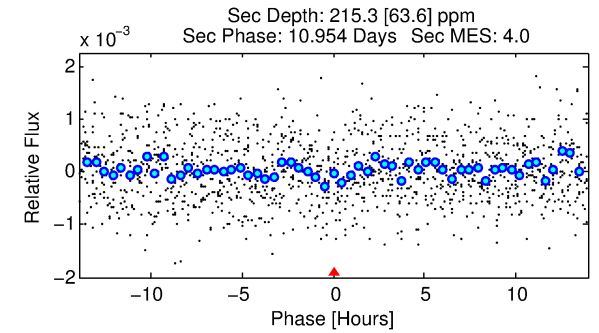
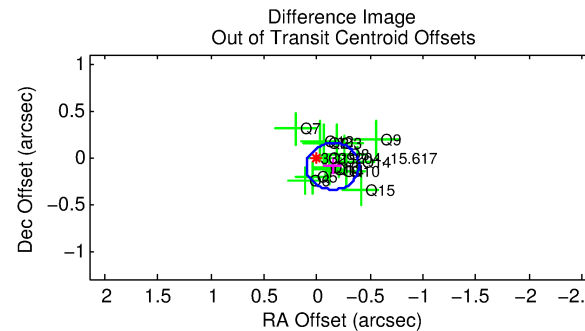
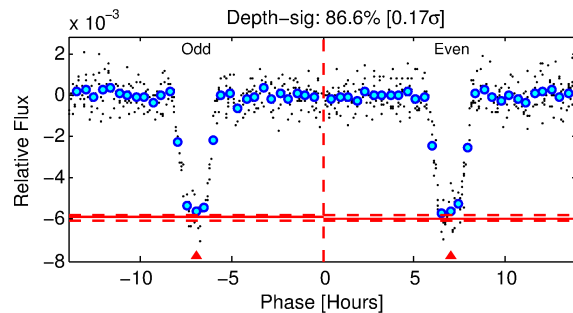
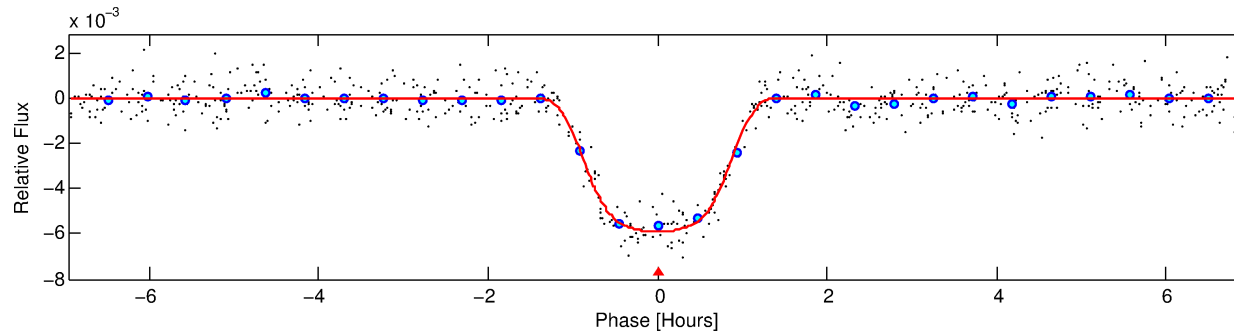
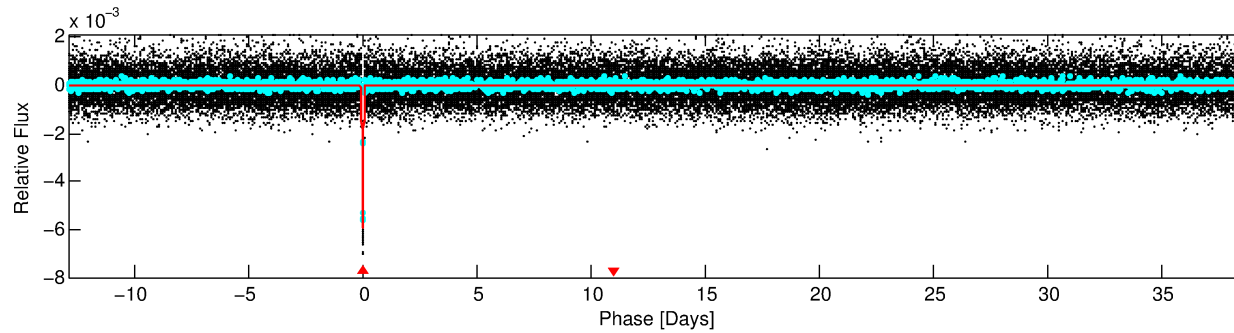
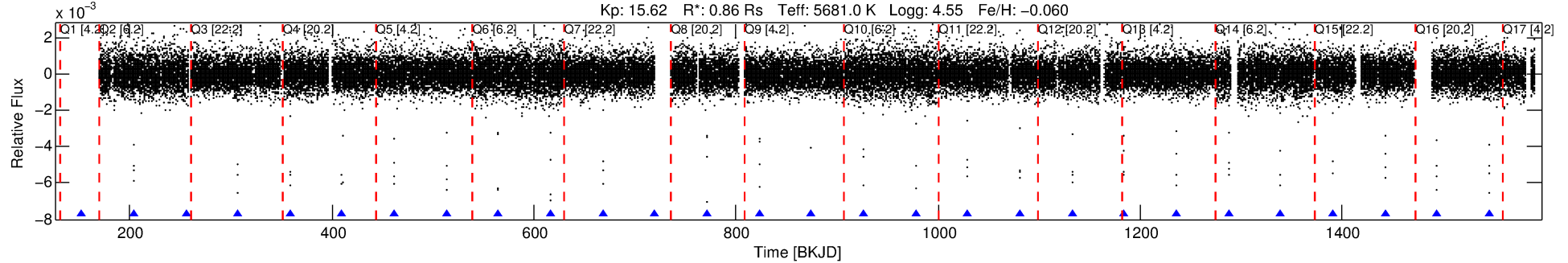
No Significant Match Found

DV One-Page Summary

KIC: 3329204 Candidate: 1 of 1 Period: 51.598 d

KOI: K01095.01 Corr: 0.932

Kp: 15.62 R*: 0.86 Rs Teff: 5681.0 K Logg: 4.55 Fe/H: -0.060



DV Fit Results:

Period = 51.59810 [0.00005] d
Epoch = 152.3817 [0.0008] BKJD
Rp/R* = 0.0806 [0.0020]
a/R* = 115.27 [9.89]
b = 0.84 [0.03]
Seff = 9.63 [3.61]
Teq = 449 [42] K
Rp = 7.55 [2.19] Re
a = 0.2674 [0.0652] AU
Ag = 148.44 [69.08] [2.13σ]
Teffp = 2424 [196] K [9.87σ]

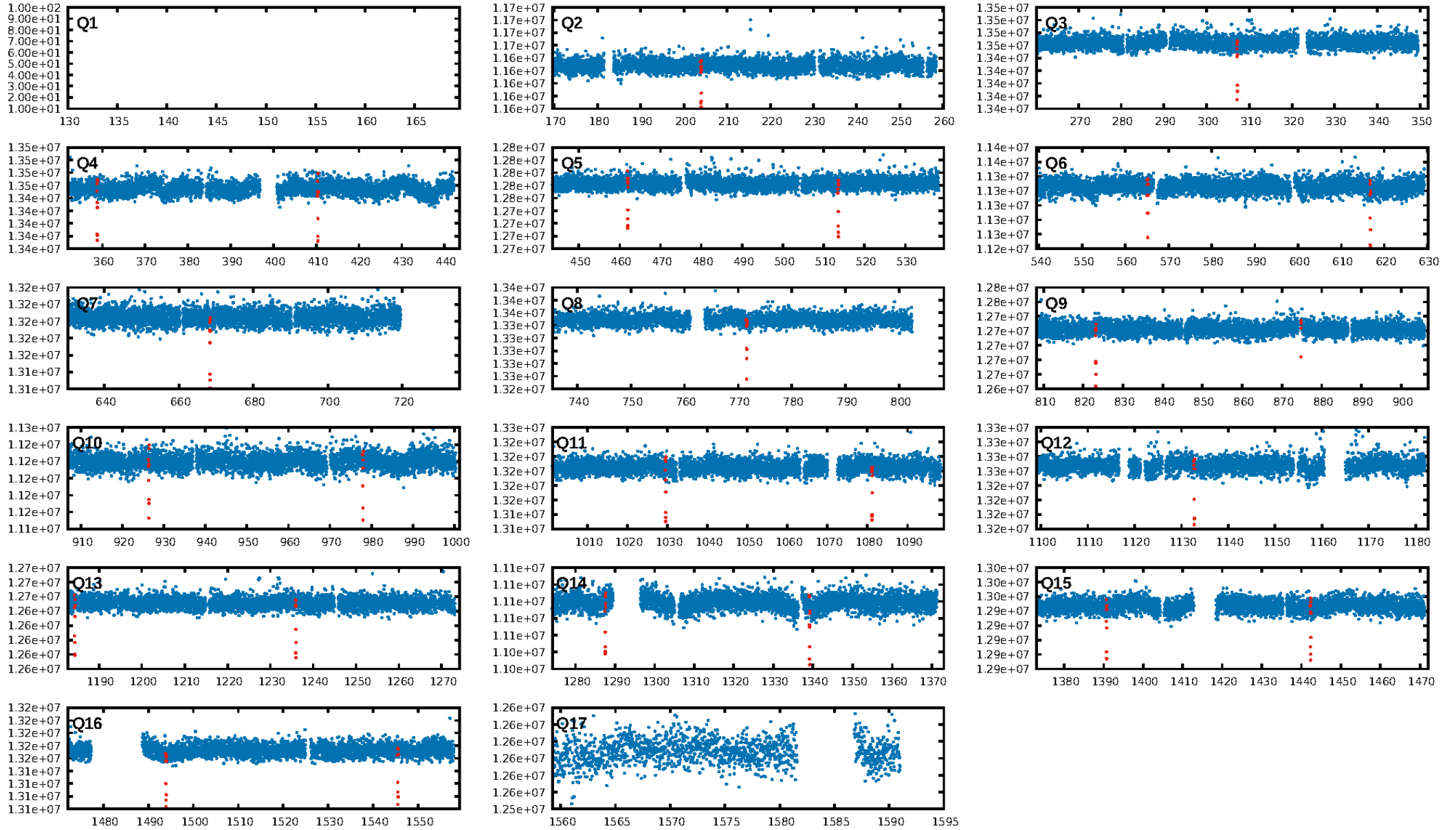
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 58.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [25/25]
GhostDiagnostic-chr: 3.318
Centroid-sig: 0.0%
Centroid-so: 0.432 arcsec [2.39σ]
OotOffset-rm: 0.175 arcsec [2.11σ]
KicOffset-rm: 0.159 arcsec [1.76σ]
OotOffset-st: 4/4/4/3 [15]
KicOffset-st: 4/4/4/3 [15]
DiffImageQuality-fgm: 1.00 [15/15]
DiffImageOverlap-fno: 1.00 [15/15]

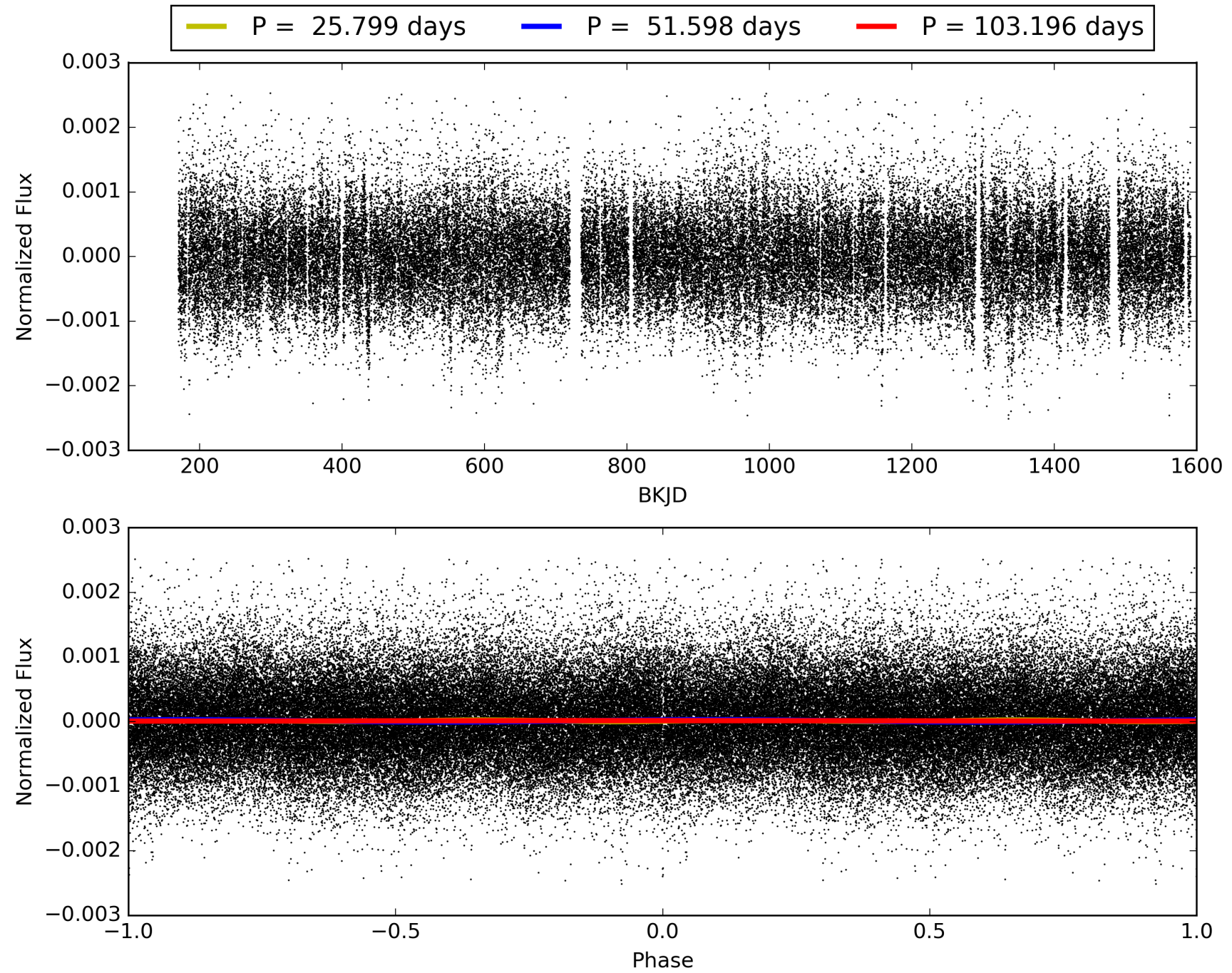
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 14:23:08 Z

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

TCE 003329204-01, PDC Light Curves

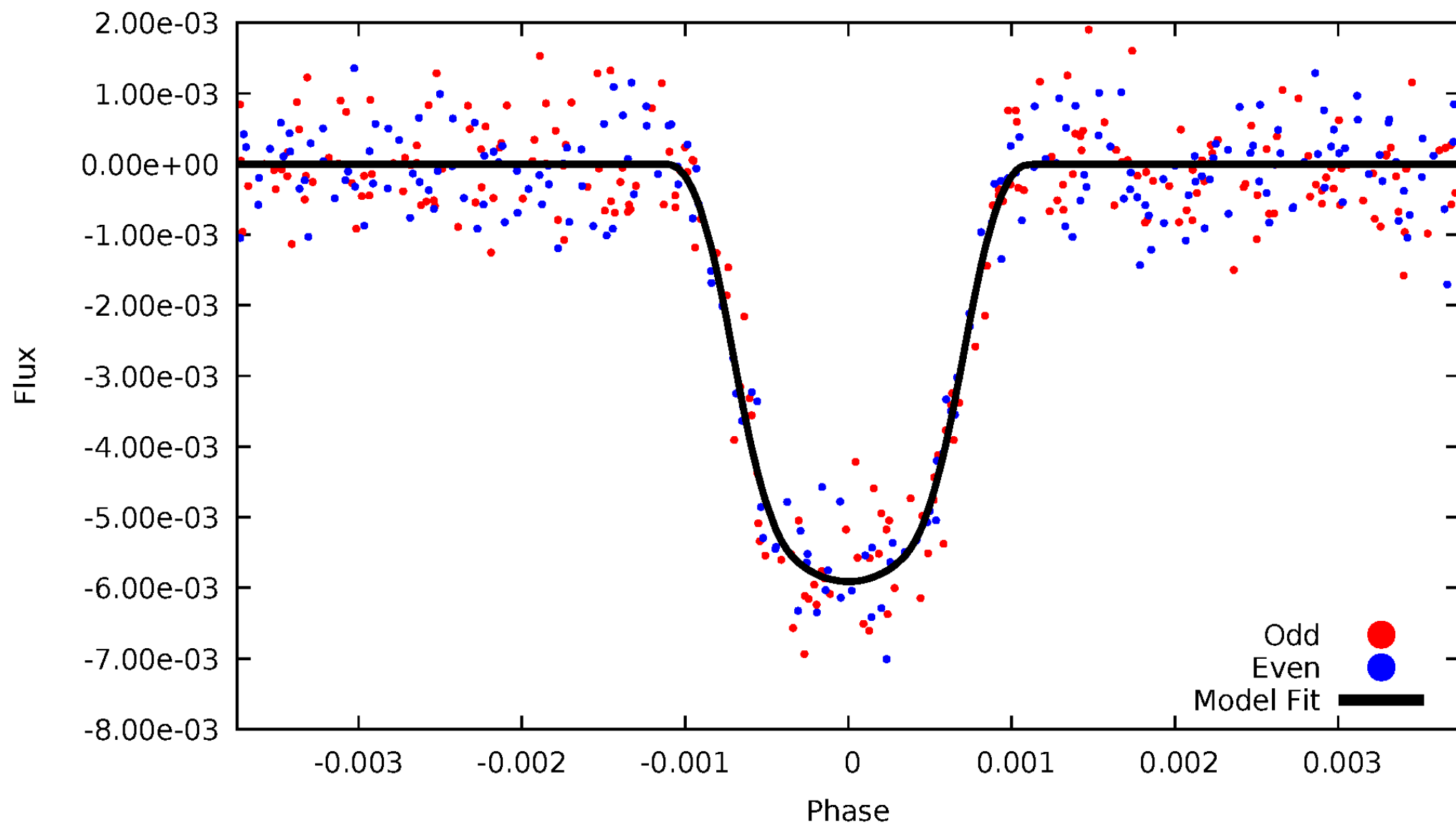


TCE 003329204-01



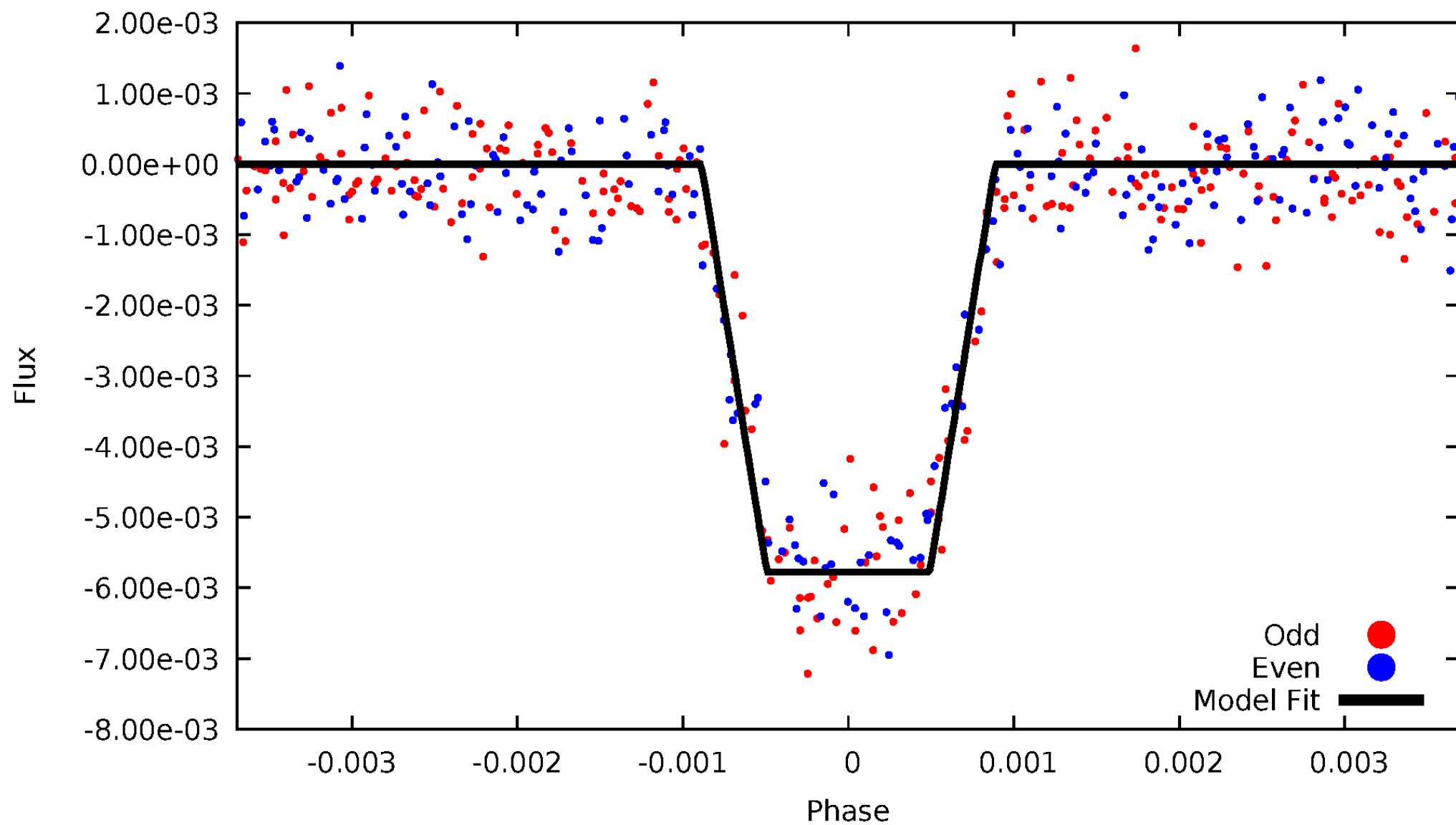
DV Odd/Even

TCE 003329204-01

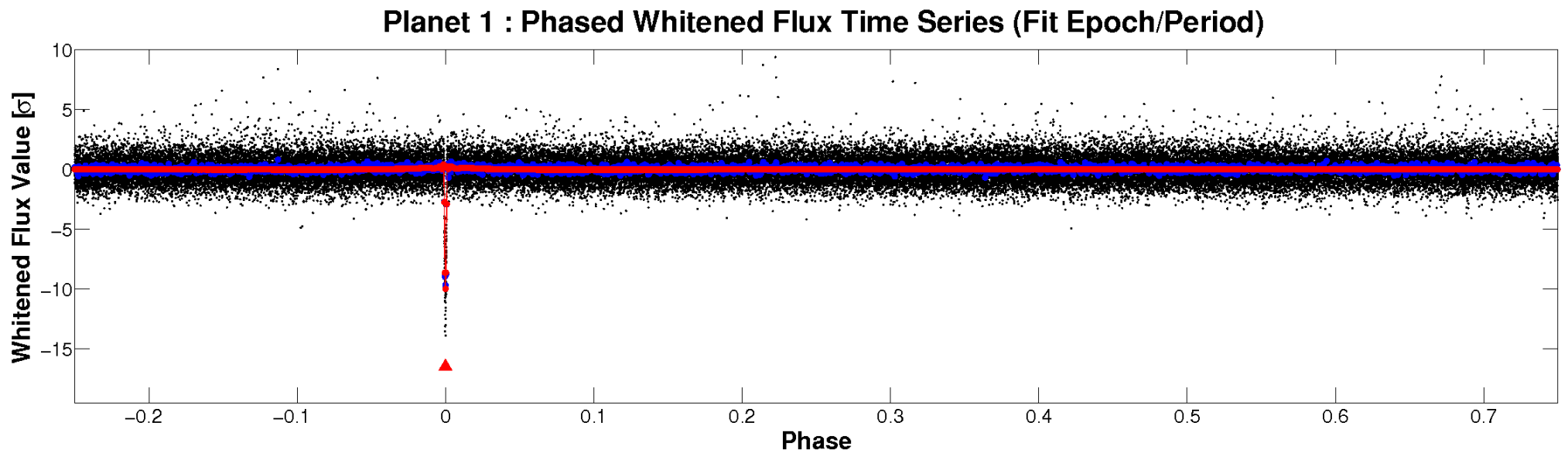
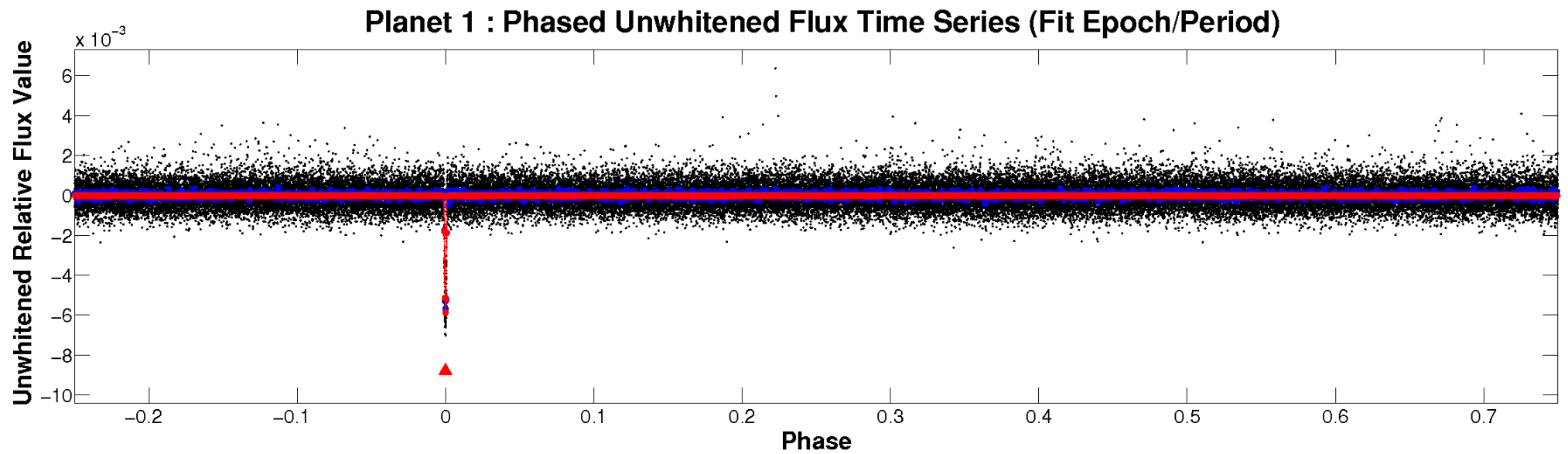


ALT Odd/Even

TCE 003329204-01

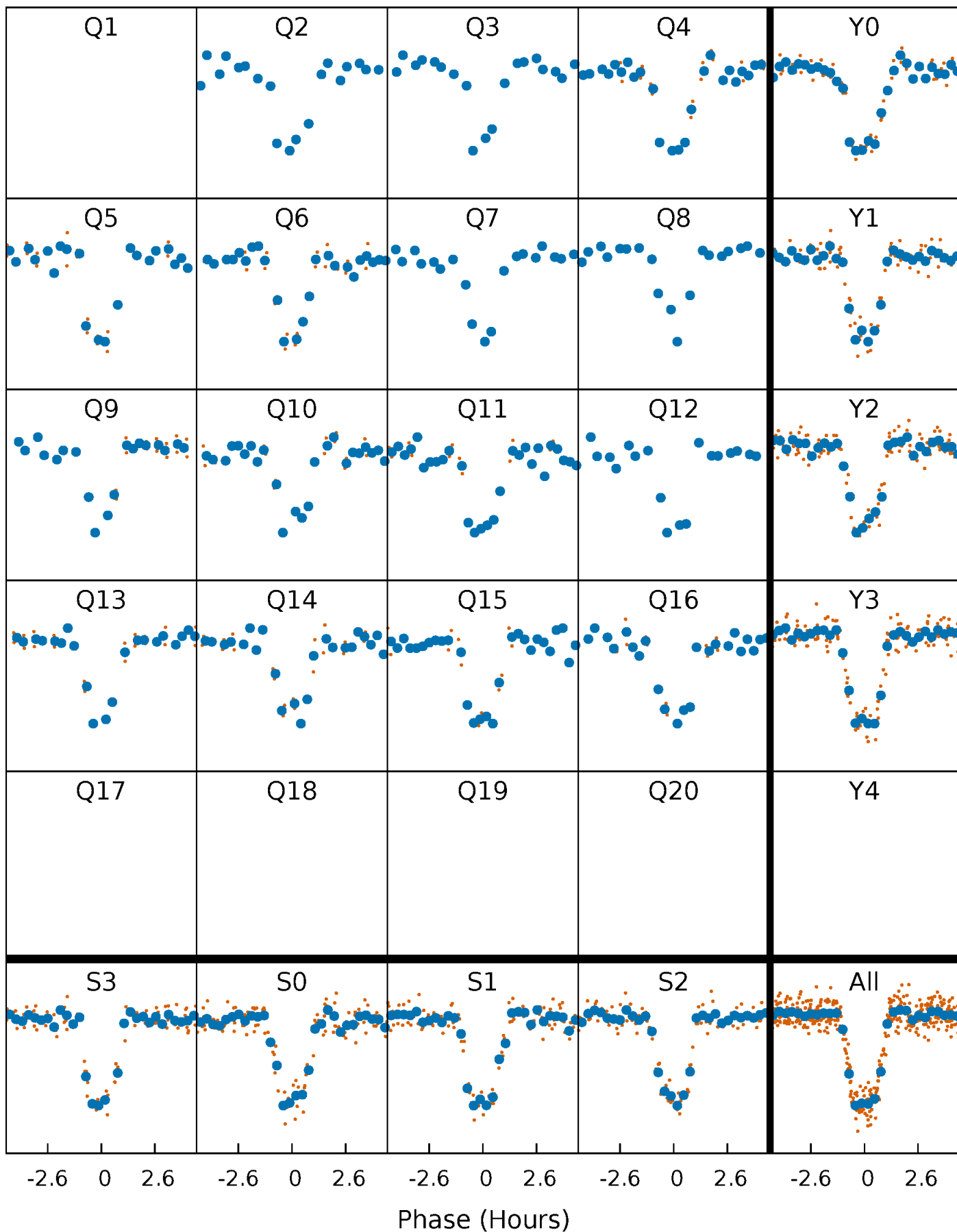


Non-Whitened Vs. Whitened Light Curve



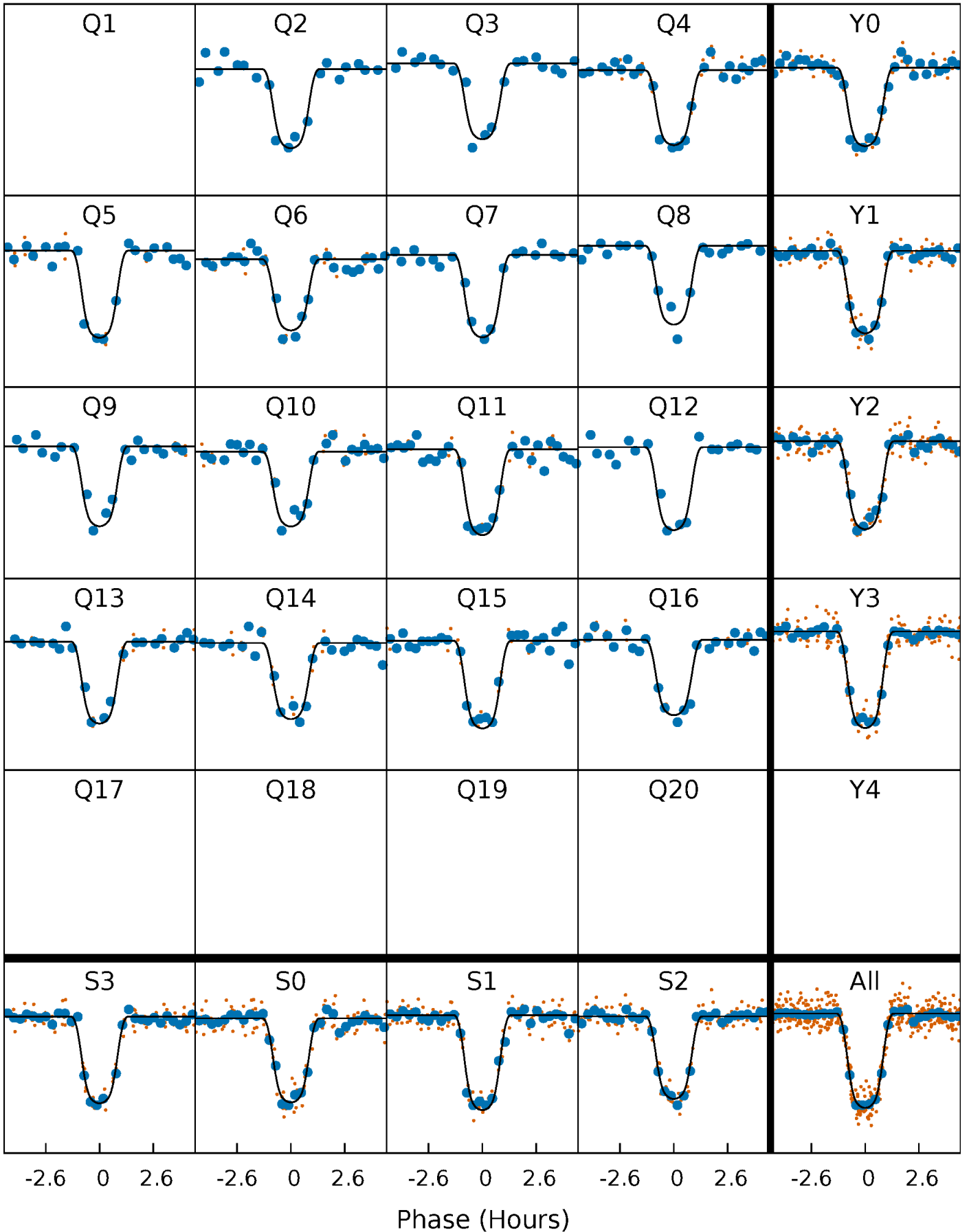
PDC Quarter-Phased Transit Curves

TCE 003329204-01 P= 51.598095 Days $T_0=152.381739$ (BKJD)



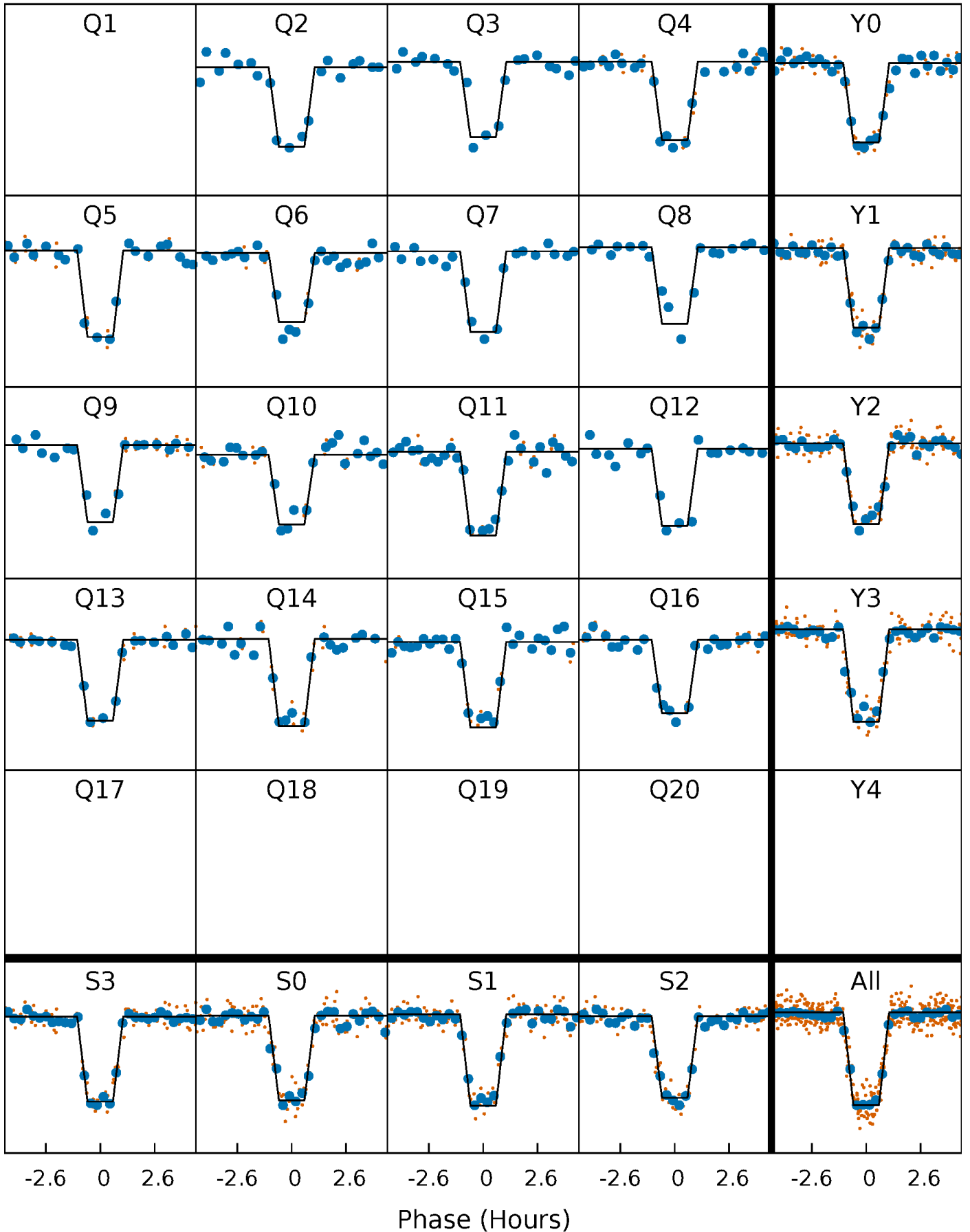
DV Quarter-Phased Transit Curves

TCE 003329204-01 P= 51.598095 Days $T_0=152.381739$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

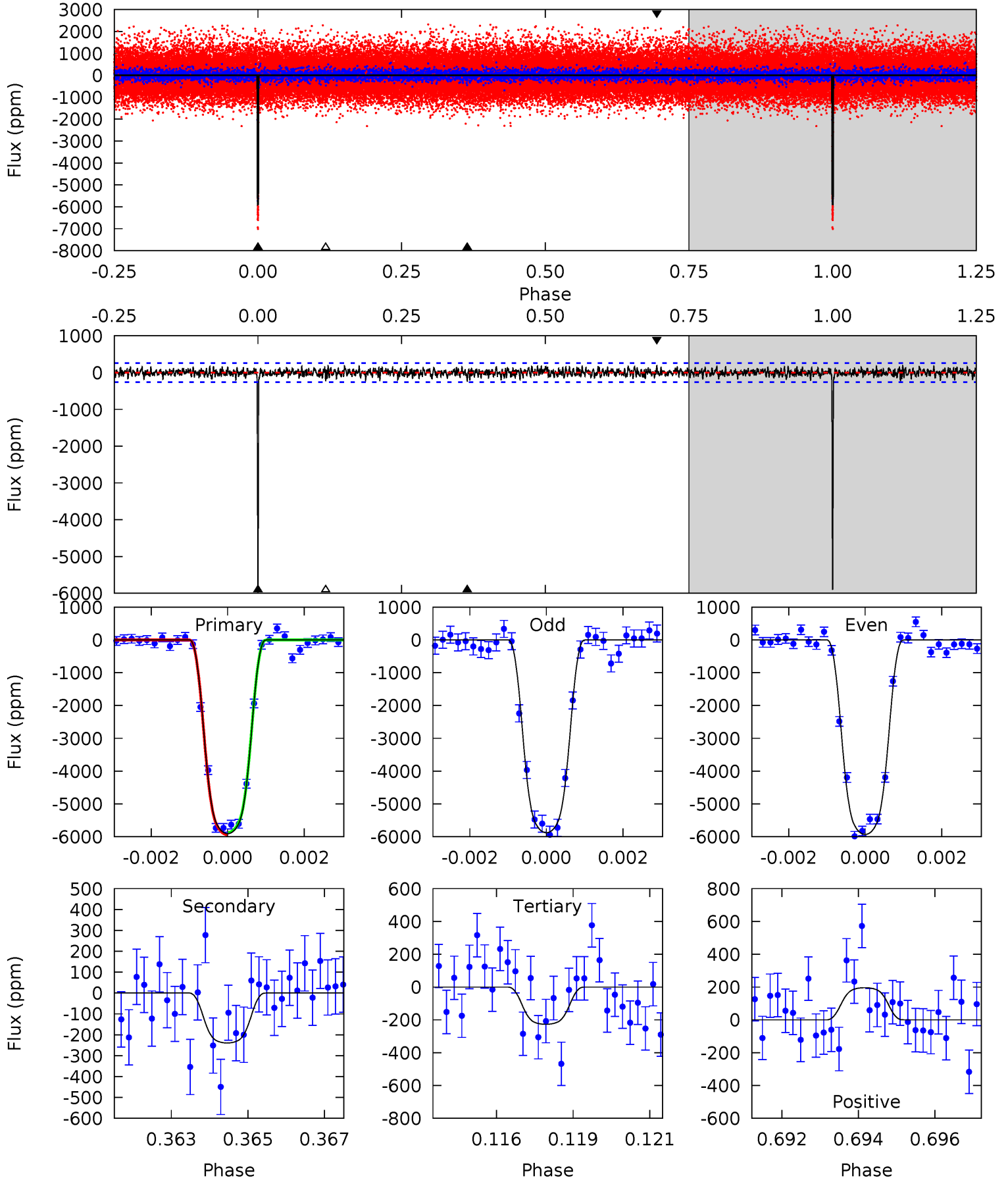
TCE 003329204-01 P= 51.598305 Days $T_0=152.378652$ (BKJD)



DV Model-Shift Uniqueness Test

003329204-01, P = 51.598095 Days, E = 152.381739 Days

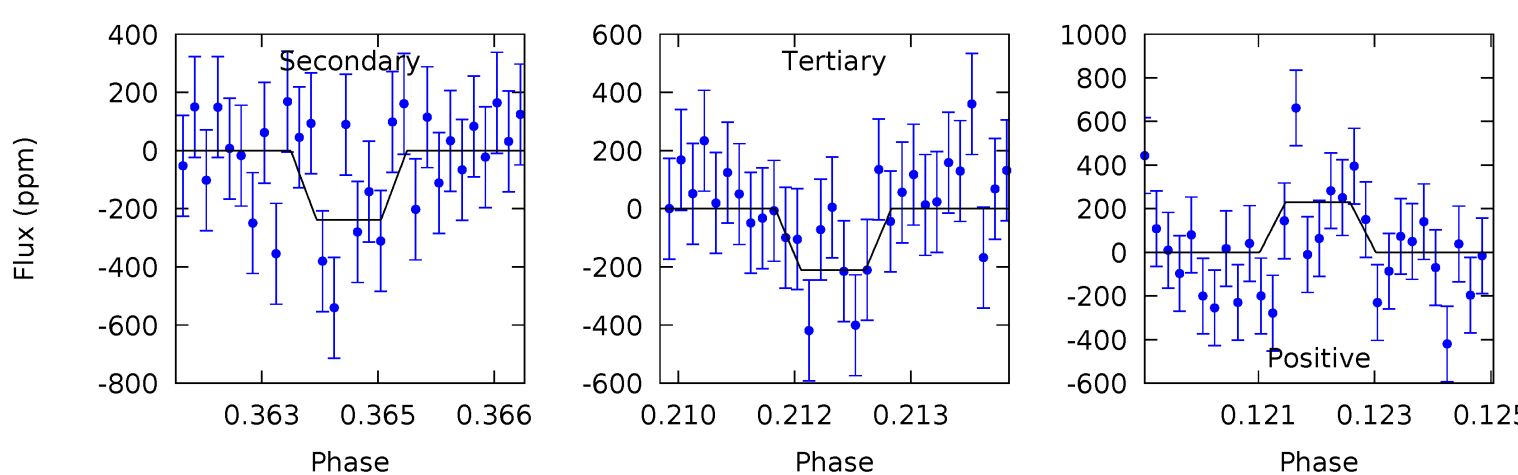
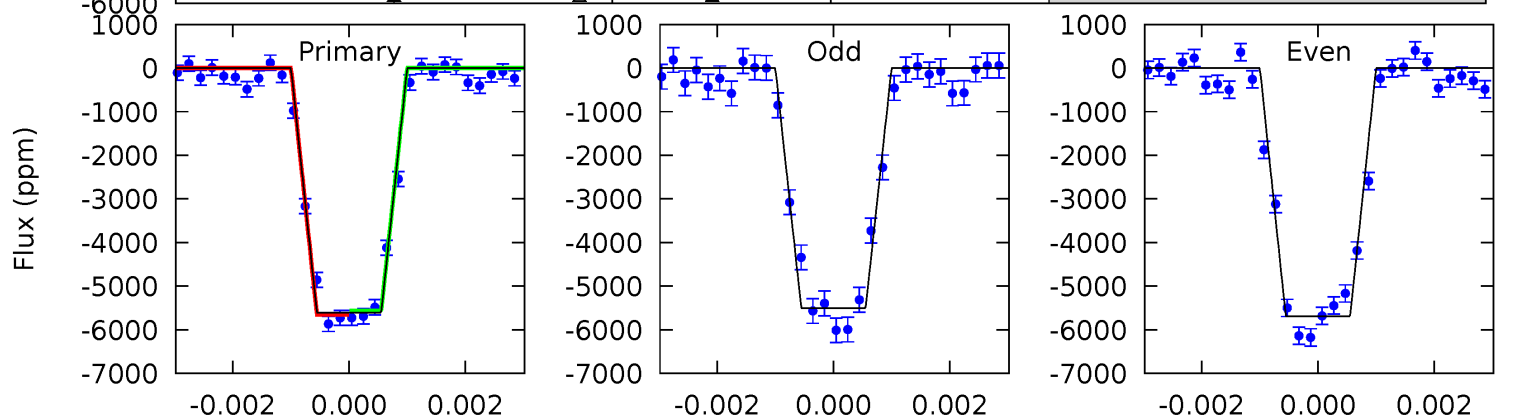
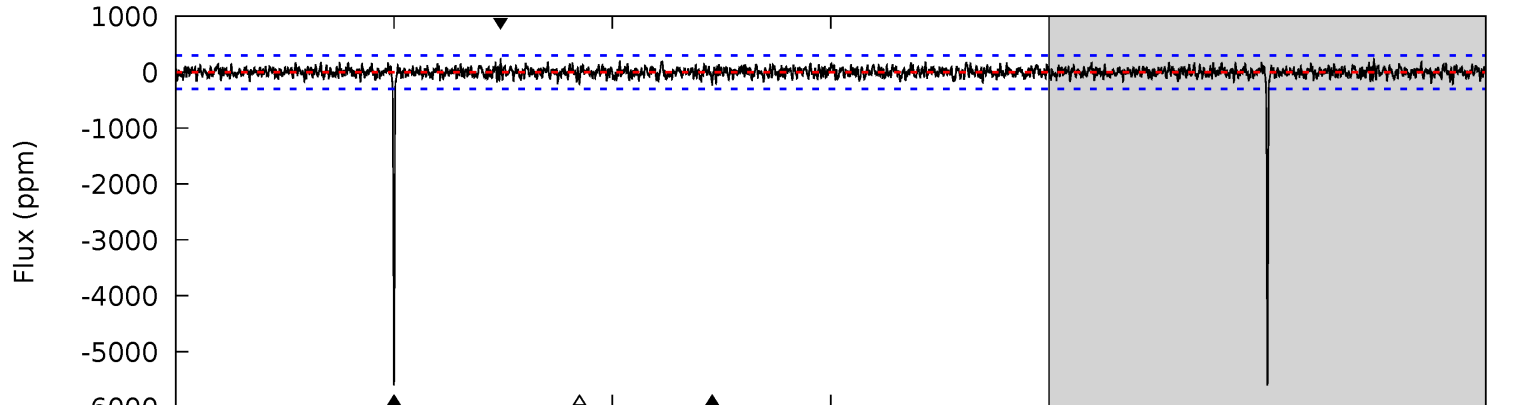
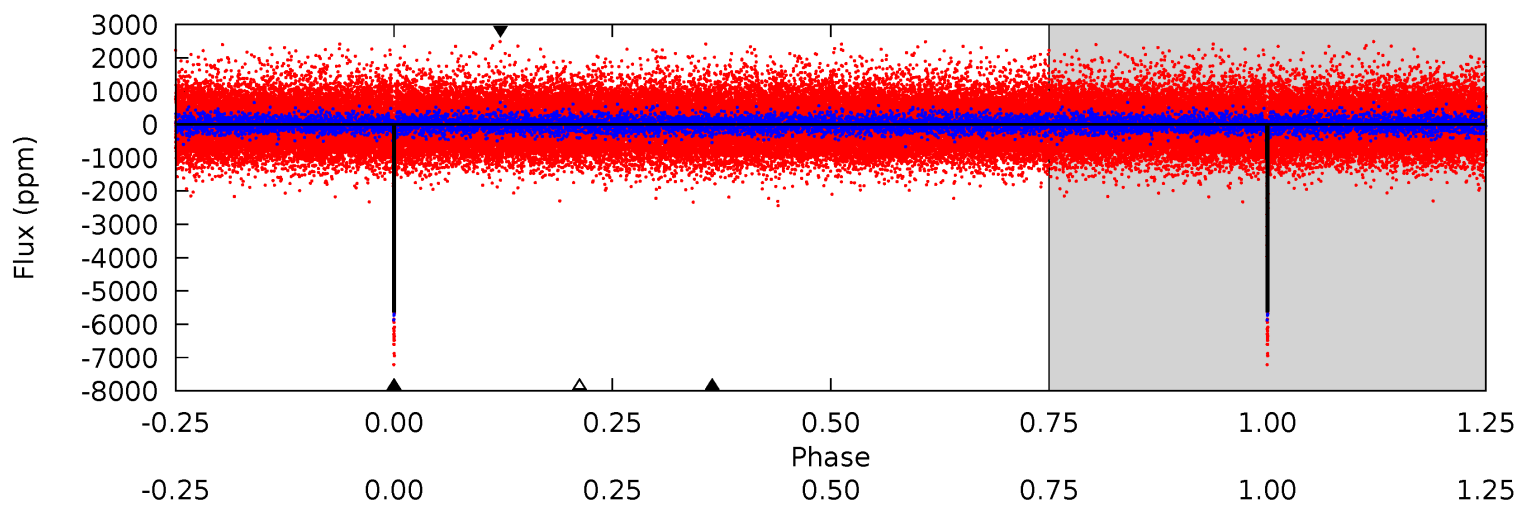
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
121.6	4.93	4.67	4.03	5.31	3.06	1.37	116.9	117.5	0.25	0.90	0.54	1.00	0.03	0.67



Alt Model-Shift Uniqueness Test

003329204-01, P = 51.598305 Days, E = 152.378652 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
100.6	4.27	3.78	4.13	5.35	3.12	1.14	96.8	96.4	0.49	0.14	1.69	1.01	0.04	0.80



Stellar Parameters For KIC 003329204

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5681^{+169}_{-169}	$4.551^{+0.034}_{-0.195}$	$-0.060^{+0.300}_{-0.300}$	$0.859^{+0.248}_{-0.078}$	$0.957^{+0.094}_{-0.115}$	$2.129^{+0.393}_{-1.044}$
	+3%/-3%	+1%/-4%	+500%/-500%	+29%/-9%	+10%/-12%	+18%/-49%
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 003329204-01 / KOI 1095.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-239 ± 49	$7.74^{+1.08}_{-0.58}$	640^{+43}_{-29}	3112^{+107}_{-114}	148^{+47}_{-40}
Alt.	-238 ± 56	$7.34^{+1.08}_{-0.56}$	642^{+40}_{-27}	3150^{+129}_{-138}	164^{+52}_{-53}

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

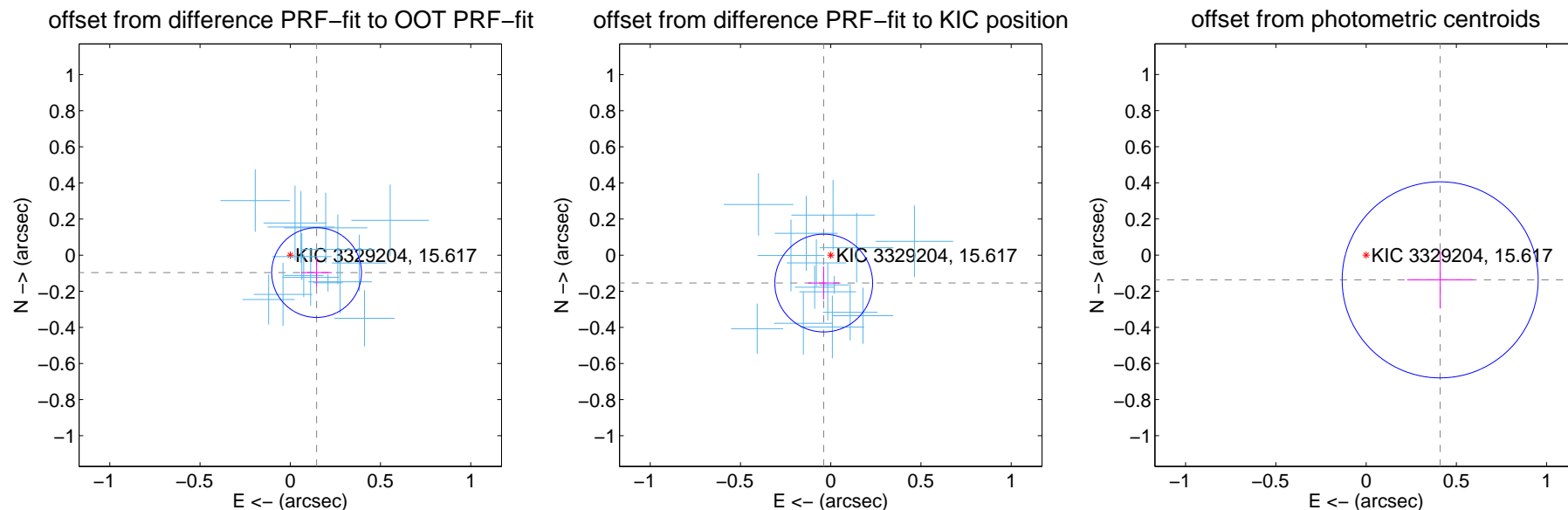
DV Centroid Data

Supplemental centroid analysis for 003329204-01. Kepler magnitude: 15.62. Transit SNR 78.71

There are 15 quarters with good PRF difference image offsets

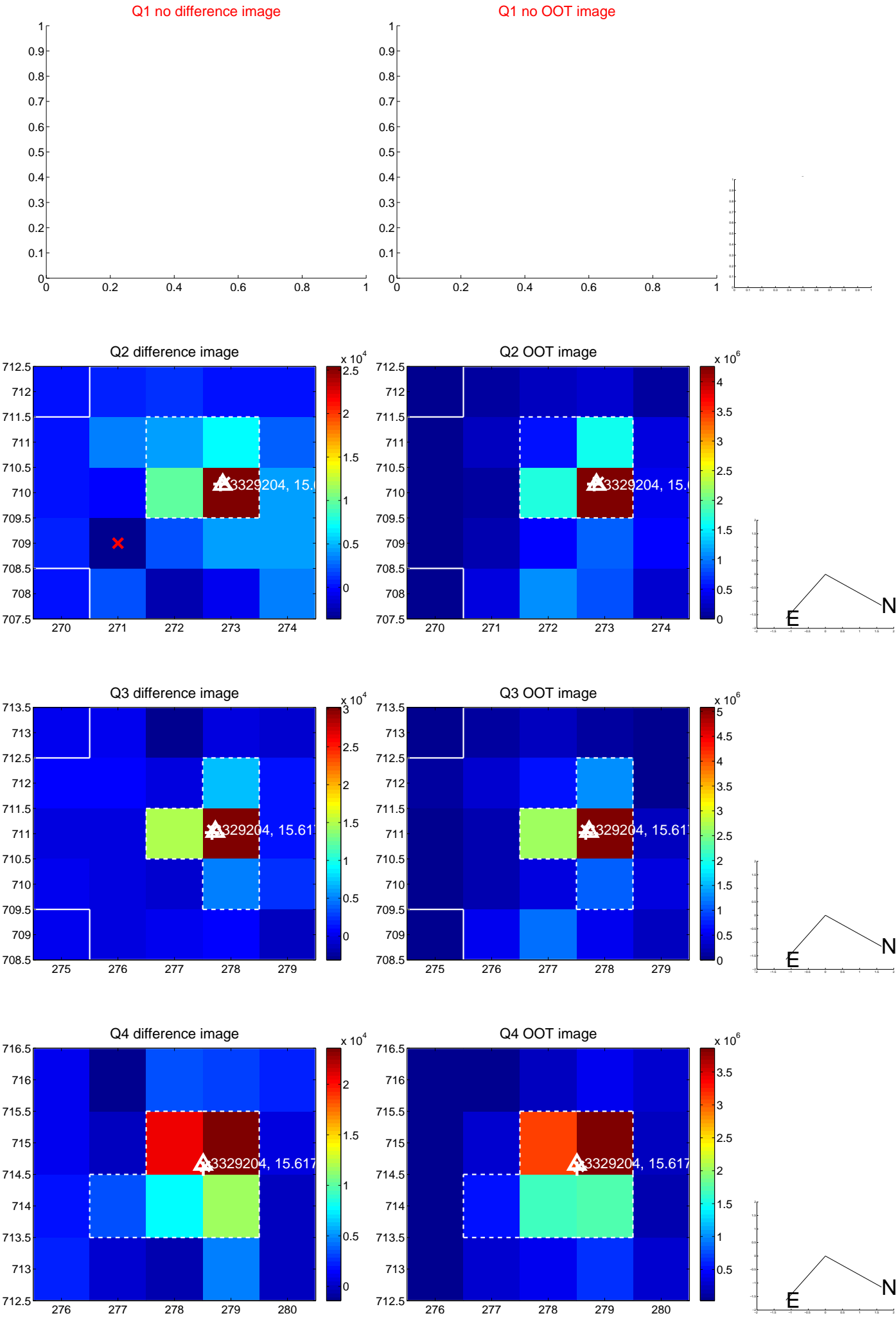
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.175 ± 0.083	2.11	-0.146 ± 0.085	-0.096 ± 0.078
PRF-fit source offset from KIC position	0.159 ± 0.090	1.76	0.039 ± 0.086	-0.155 ± 0.091
photometric centroid source offset	0.43 ± 0.18	2.39	-0.41 ± 0.18	-0.14 ± 0.16

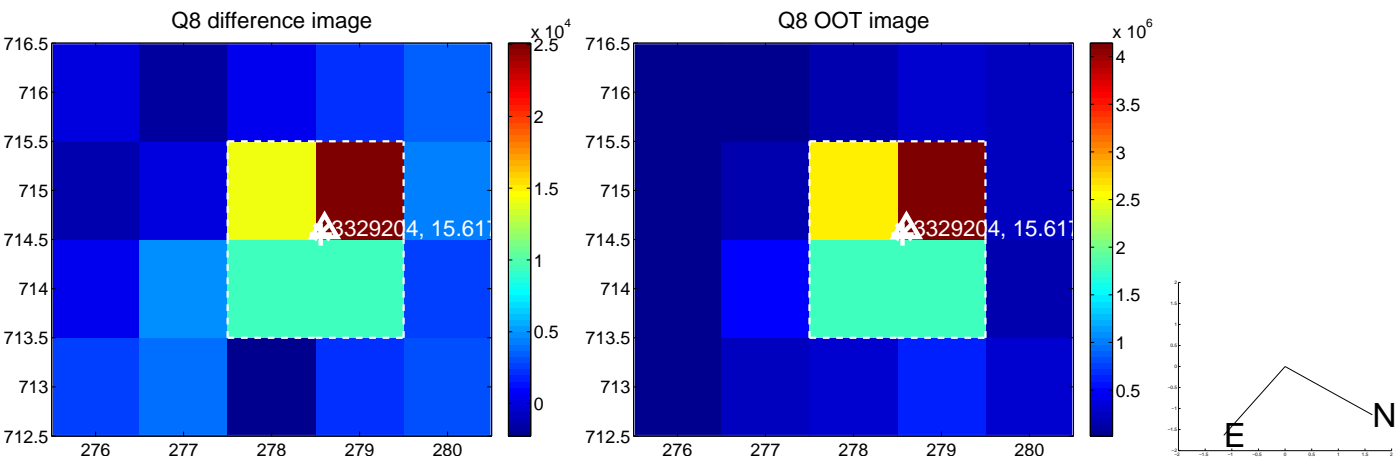
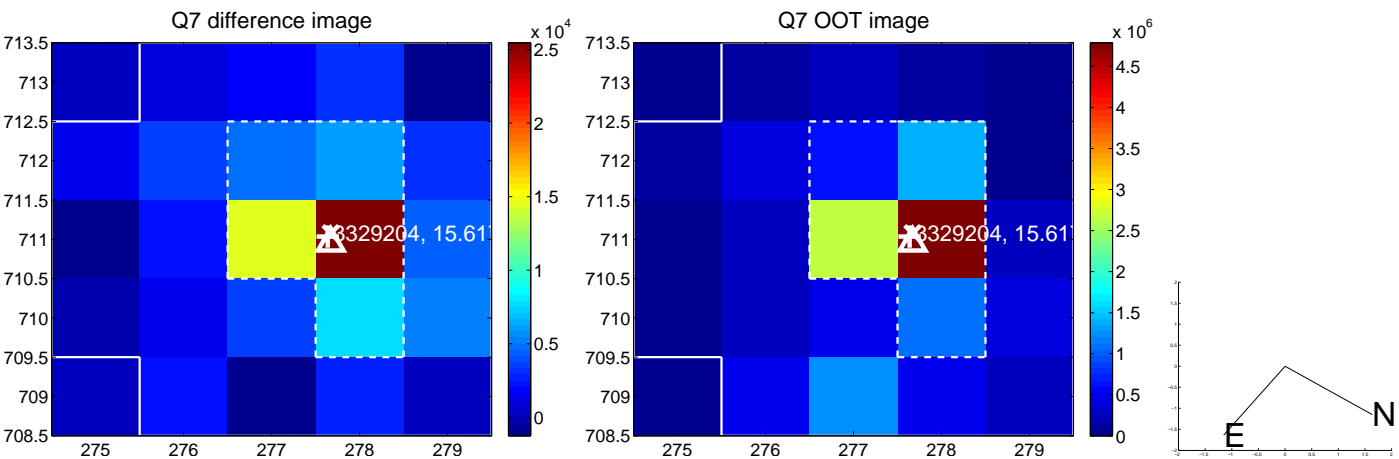
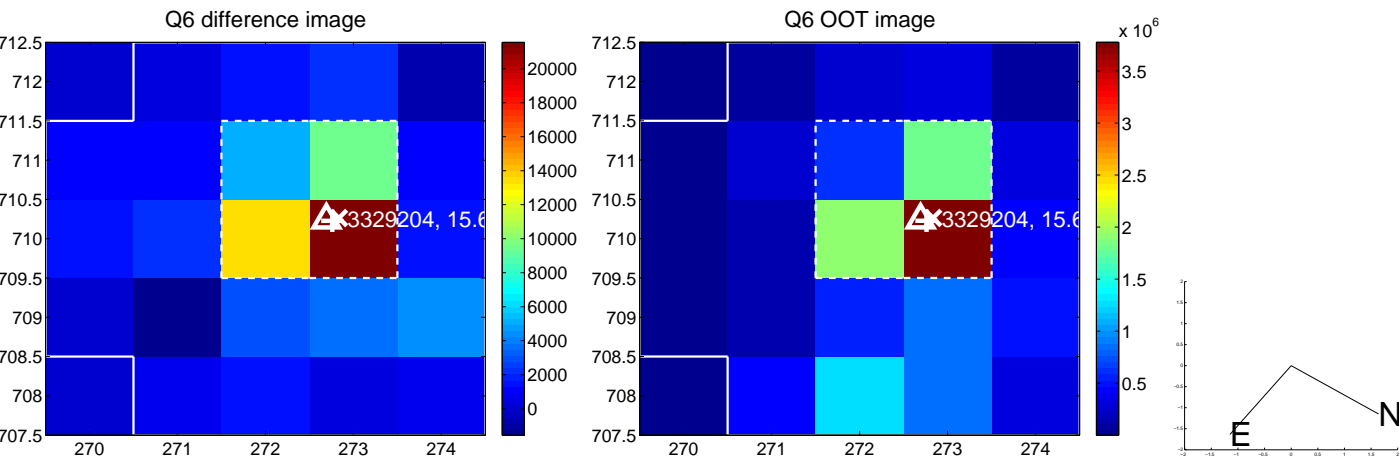
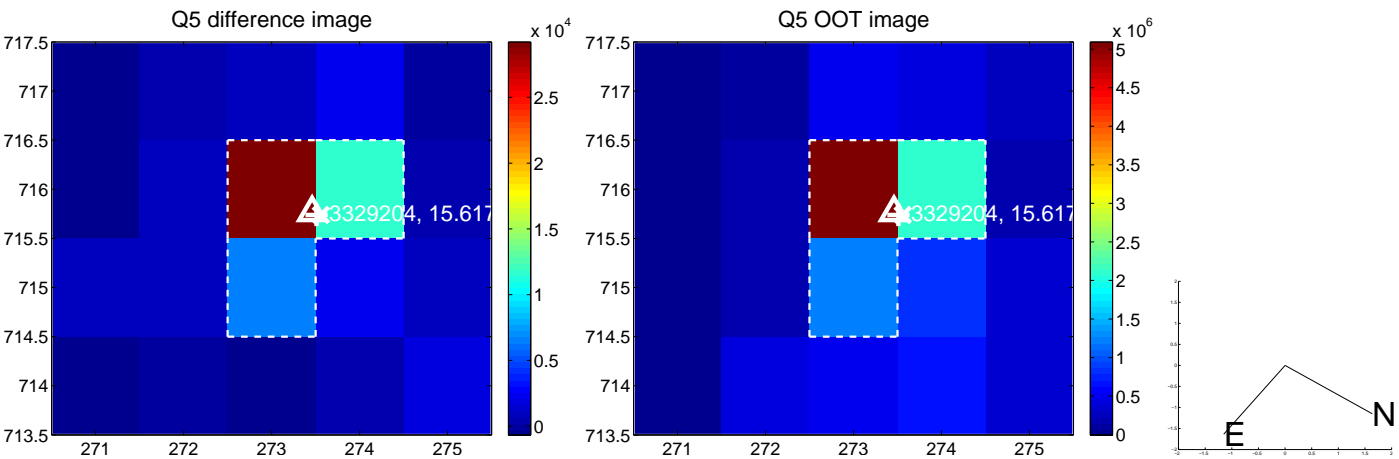


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

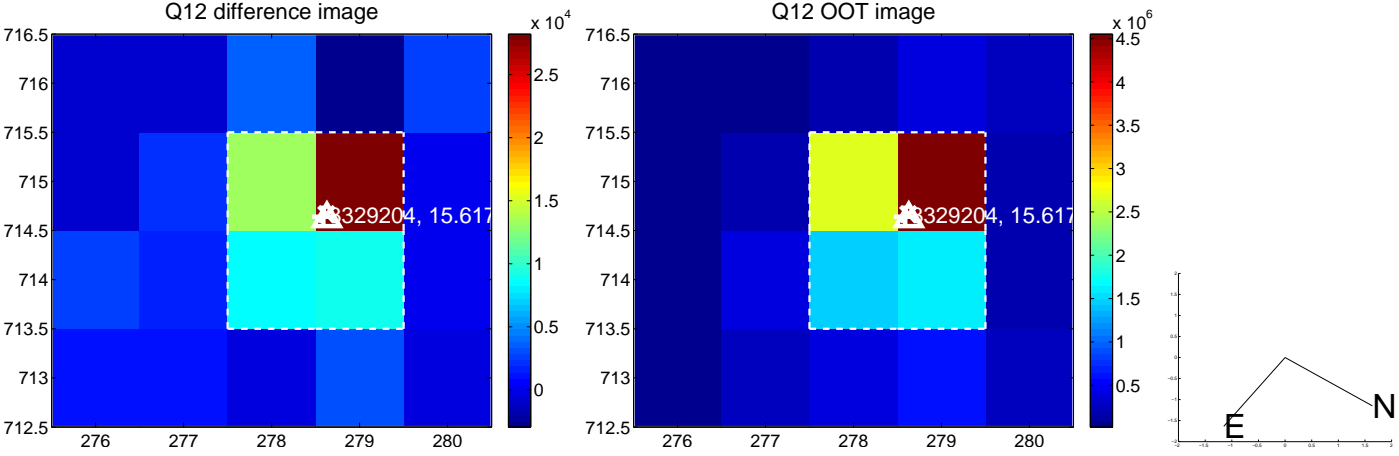
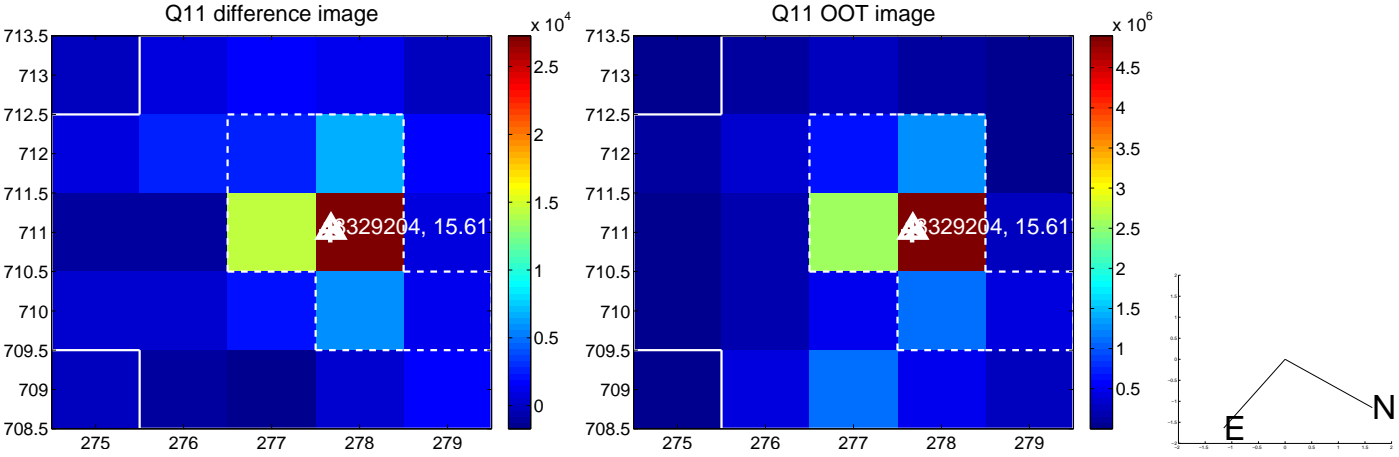
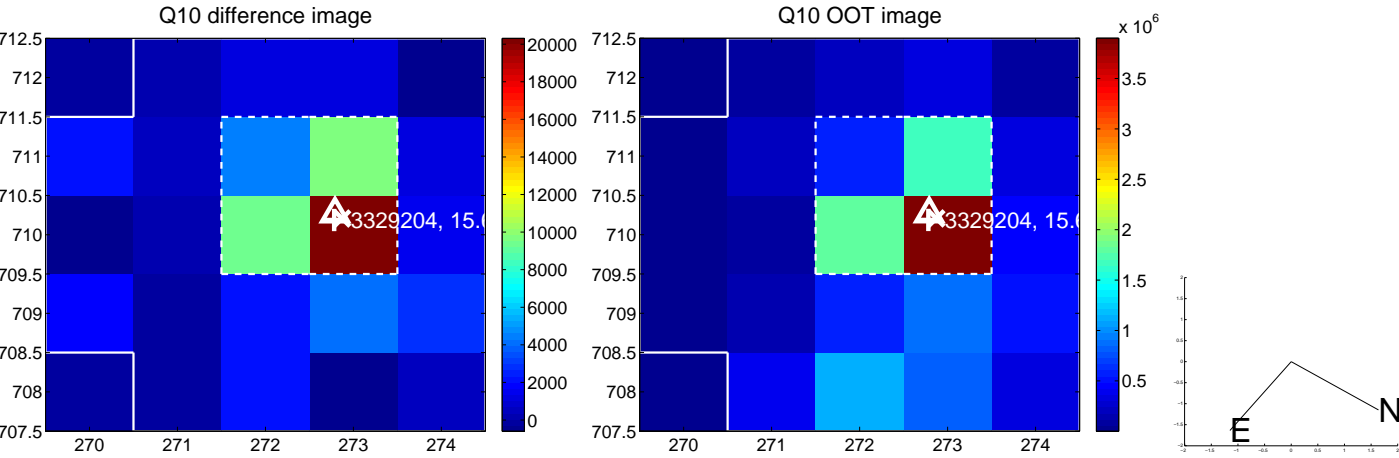
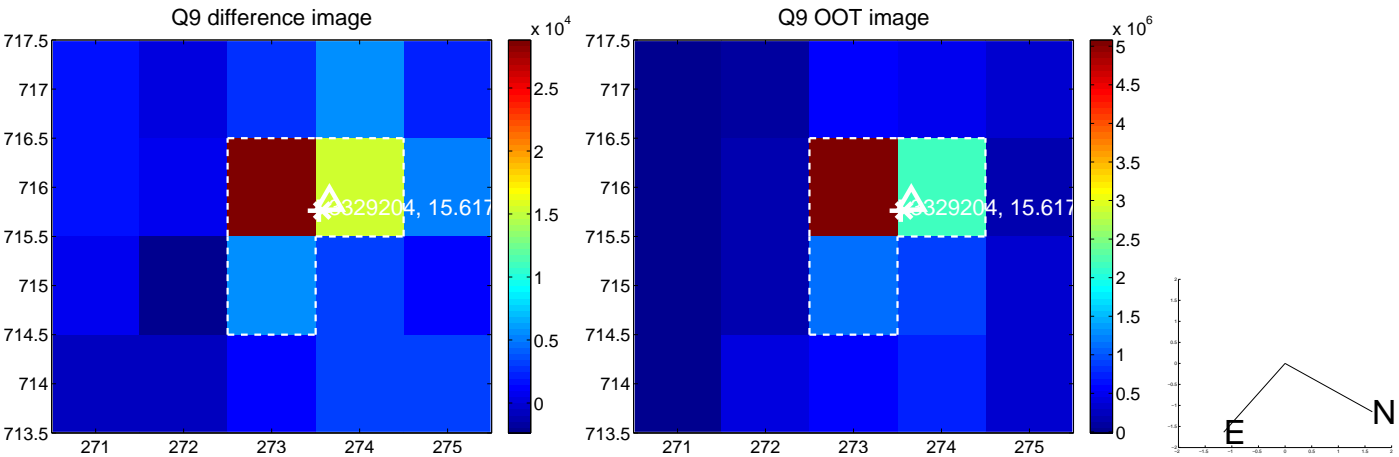
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



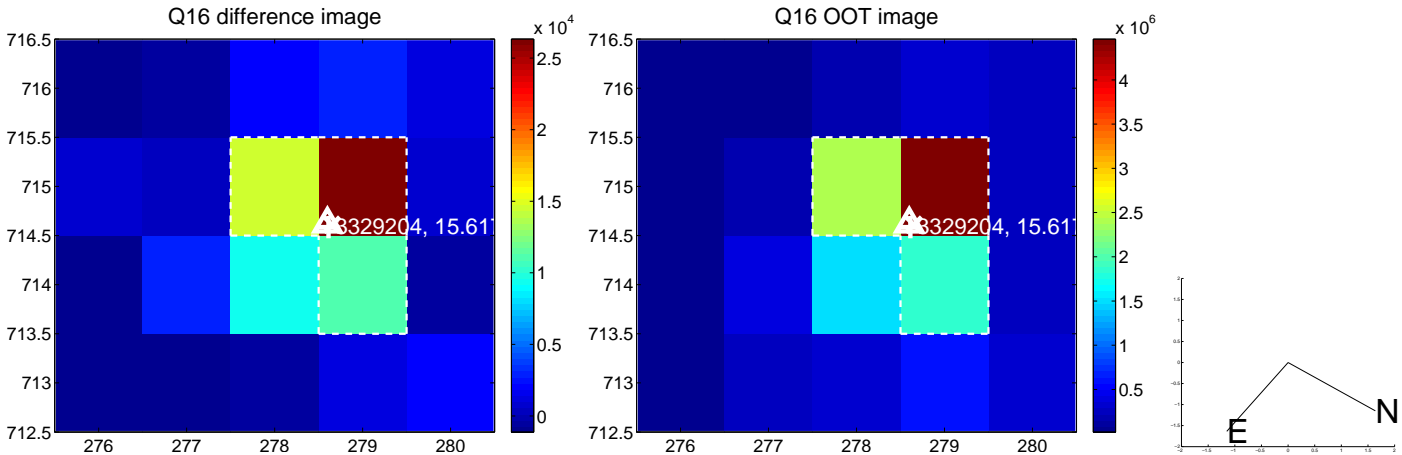
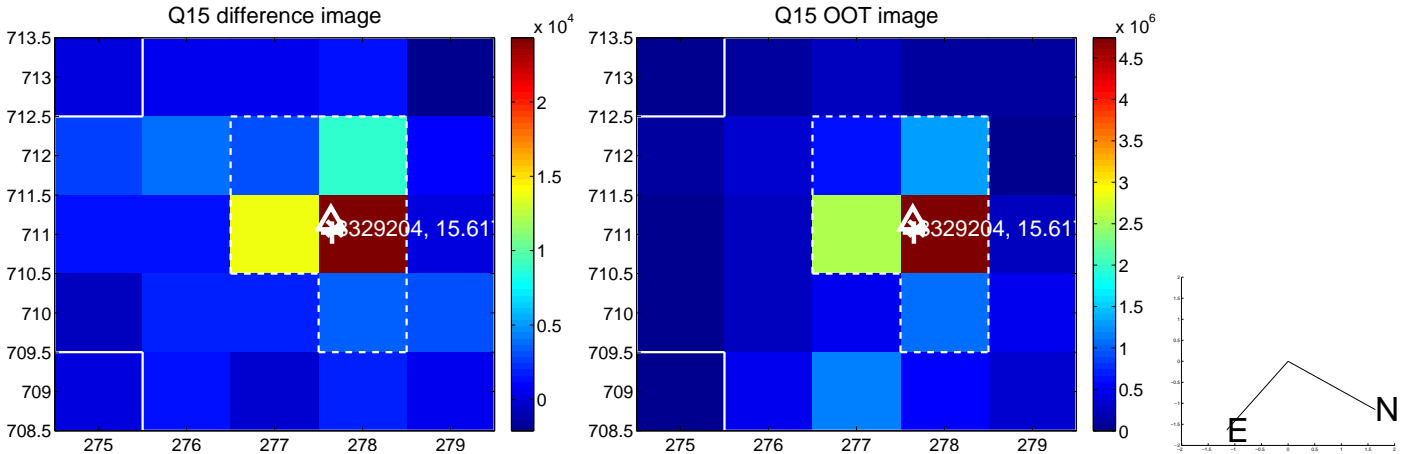
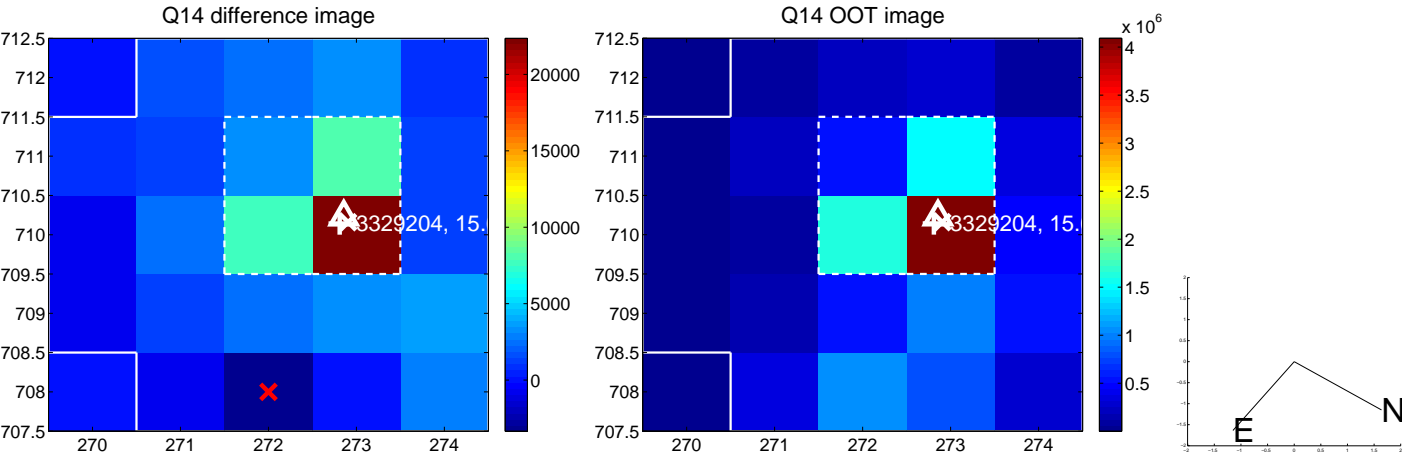
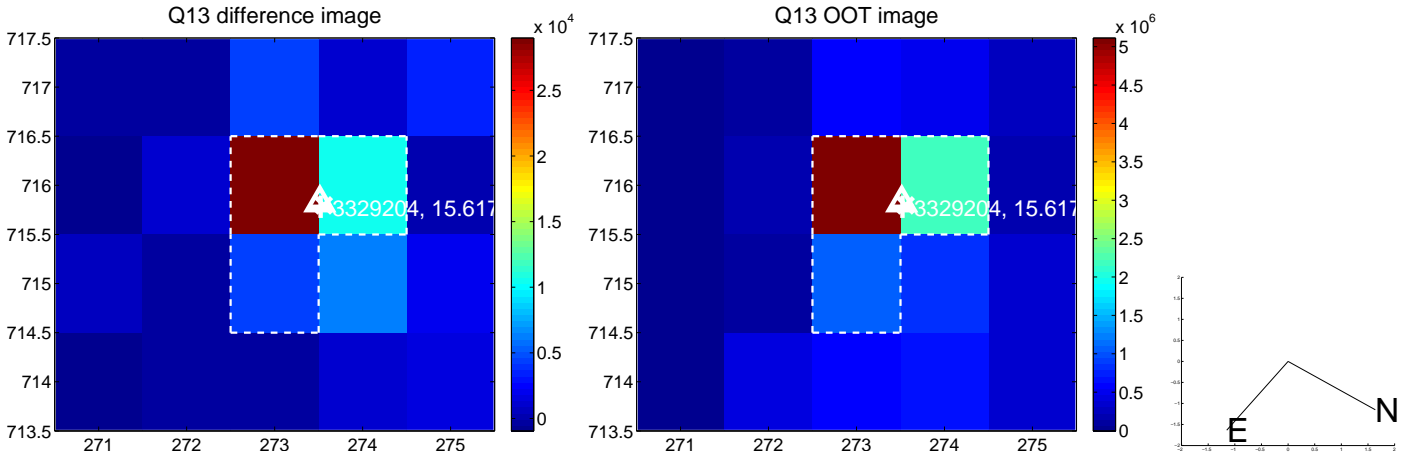
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

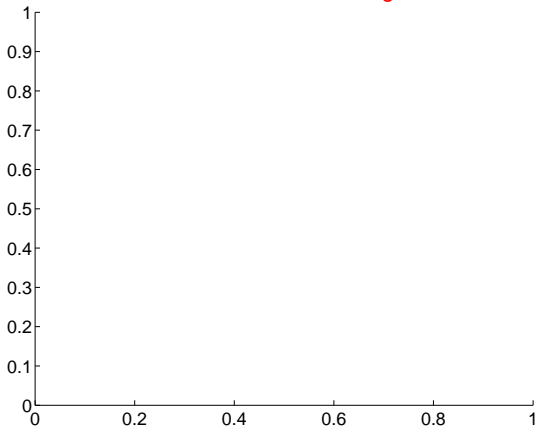


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

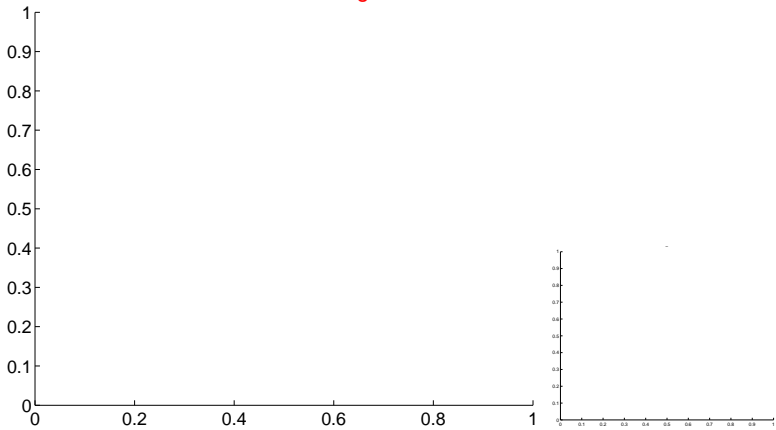


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

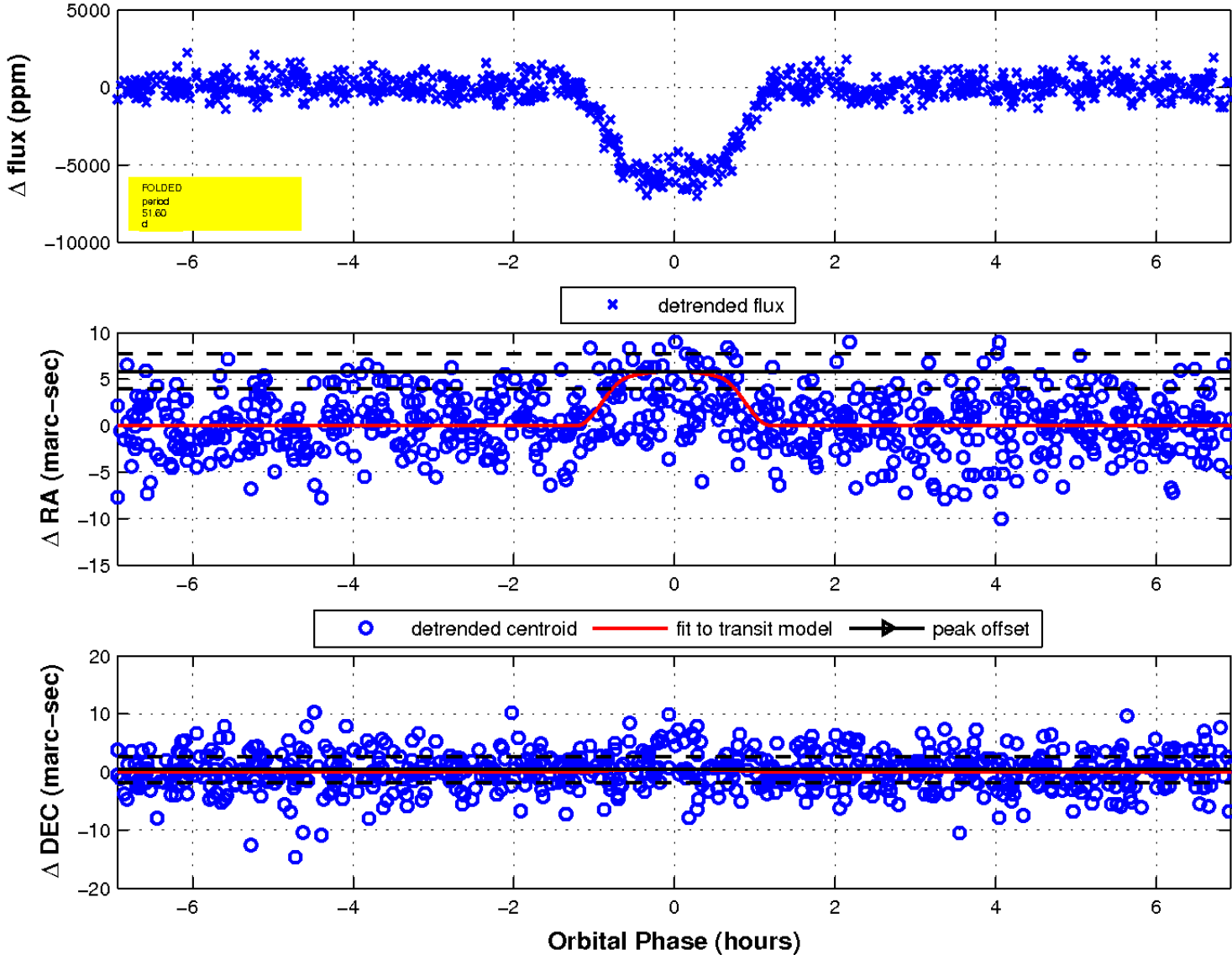
Q17 no difference image



Q17 no OOT image



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

