

KIC 006962380

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})
006962380-01	OBS	No	1.517045	132.265066	16.5	4.776	7.4	6.6	2.04	6729	0.86	8691.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962380-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL —LPP_DV —CENT_FEW_DIFFS

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

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

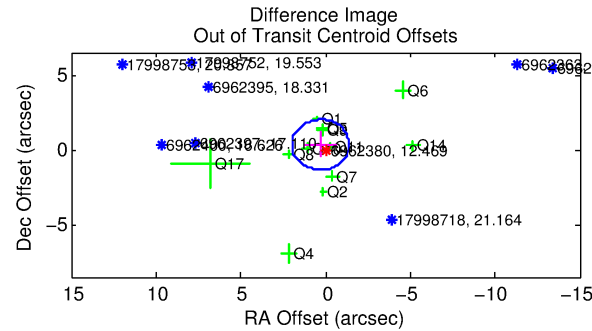
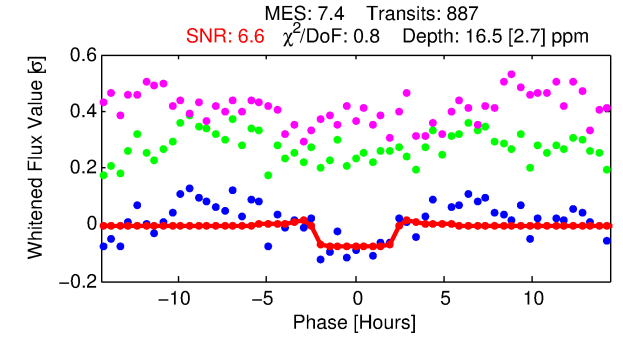
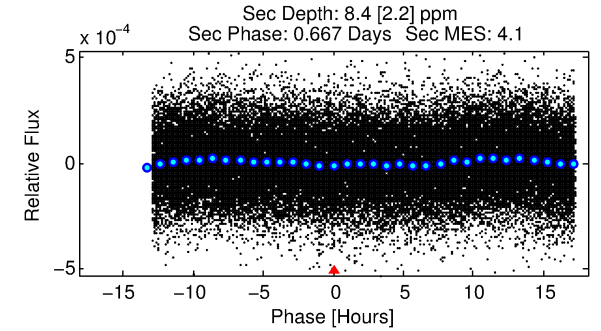
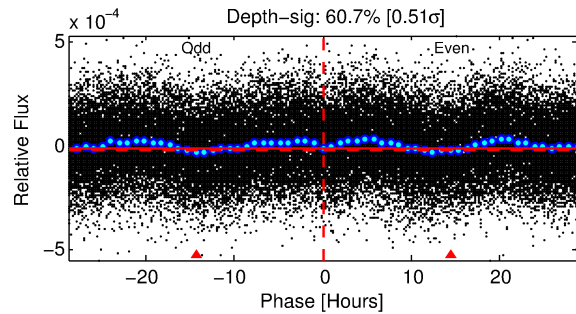
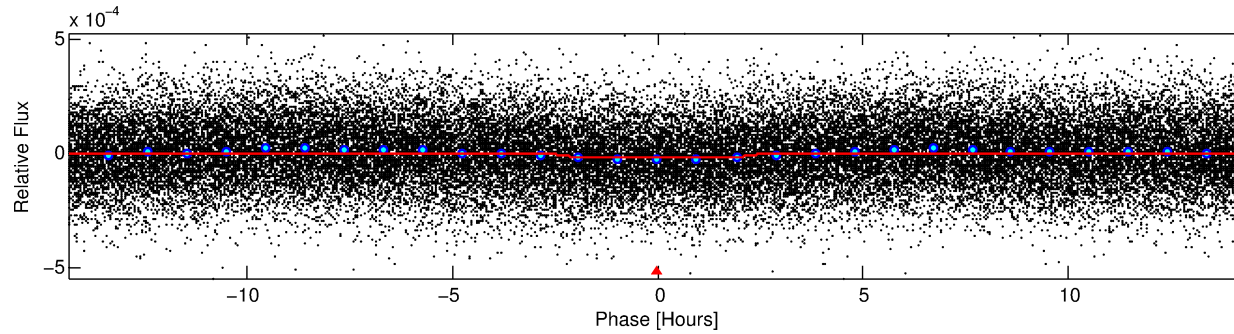
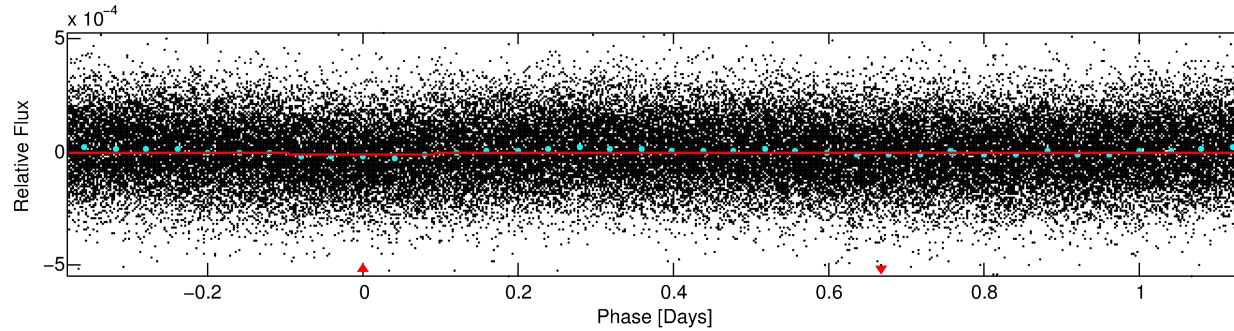
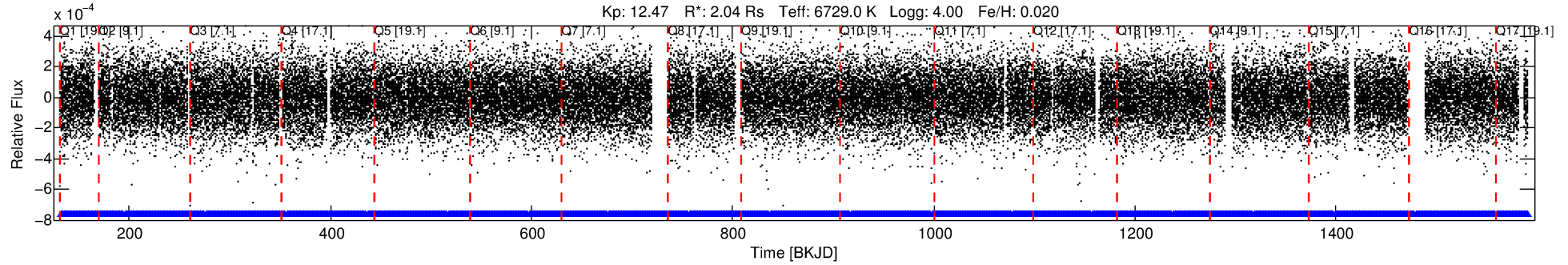
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962380-01

No Significant Match Found

DV One-Page Summary

KIC: 6962380 Candidate: 1 of 1 Period: 1.517 d



DV Fit Results:

Period = 1.51705 [0.00002] d
Epoch = 132.2651 [0.0055] BKJD
Rp/R* = 0.0039 [0.0009]
a/R* = 2.17 [2.20]
b = 0.55 [1.65]
Seff = 8691.98 [2705.24]
Teq = 2462 [192] K
Rp = 0.86 [0.29] Re
a = 0.0297 [0.0060] AU
Ag = 5.46 [3.48] [1.28 σ]
Teffp = 5819 [816] K [4.01 σ]

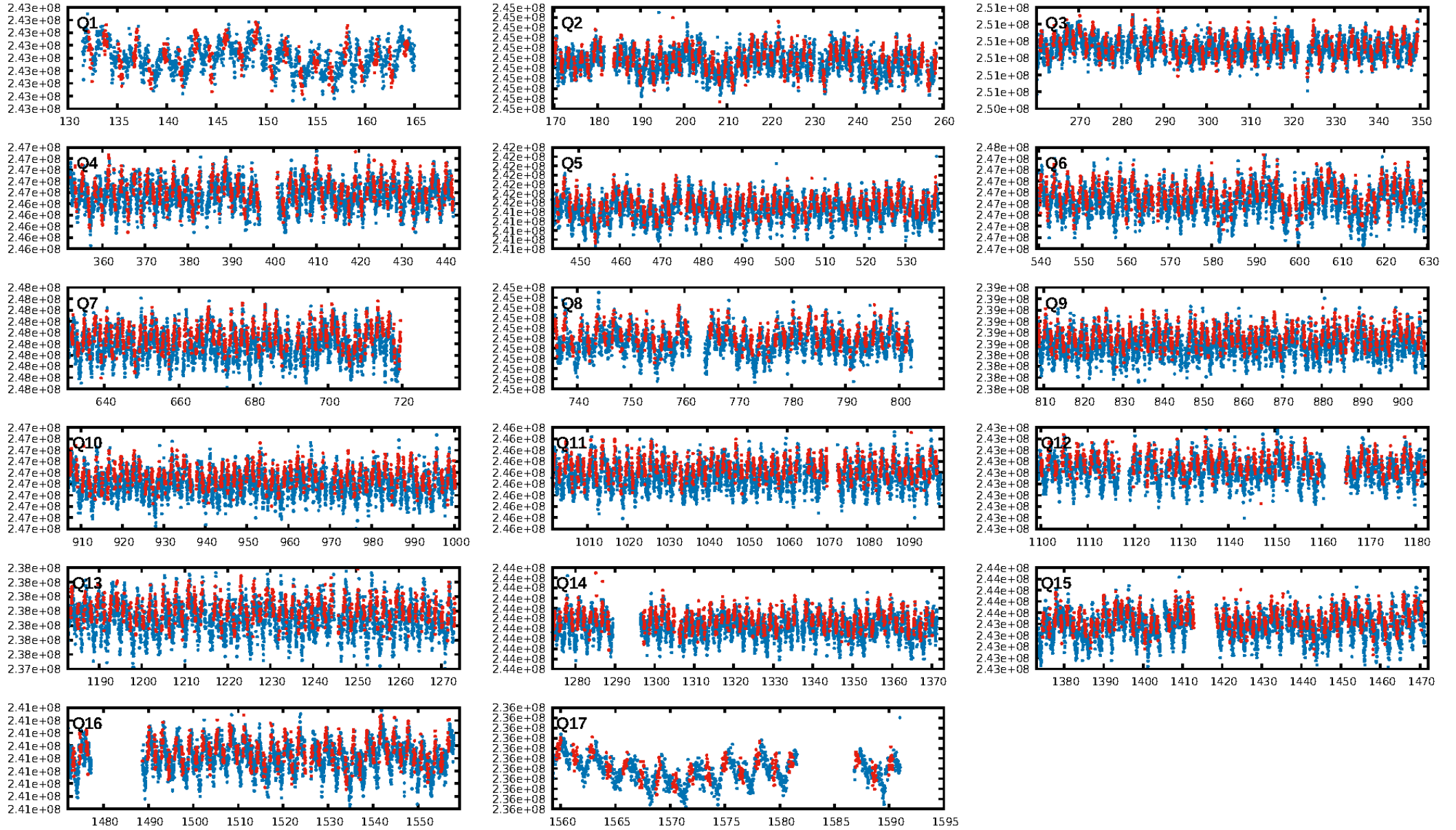
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.83e-10
RollingBand-fgt: 1.00 [847/847]
GhostDiagnostic-chr: -1.681
Centroid-sig: 0.0%
Centroid-so: 1.811 arcsec [2.79 σ]
OotOffset-rm: 0.454 arcsec [0.81 σ]
KicOffset-rm: 0.385 arcsec [0.62 σ]
OotOffset-st: 4/2/2/4 [12]
KicOffset-st: 4/2/2/4 [12]
DiffImageQuality-fgm: 0.17 [2/12]
DiffImageOverlap-fno: 1.00 [17/17]

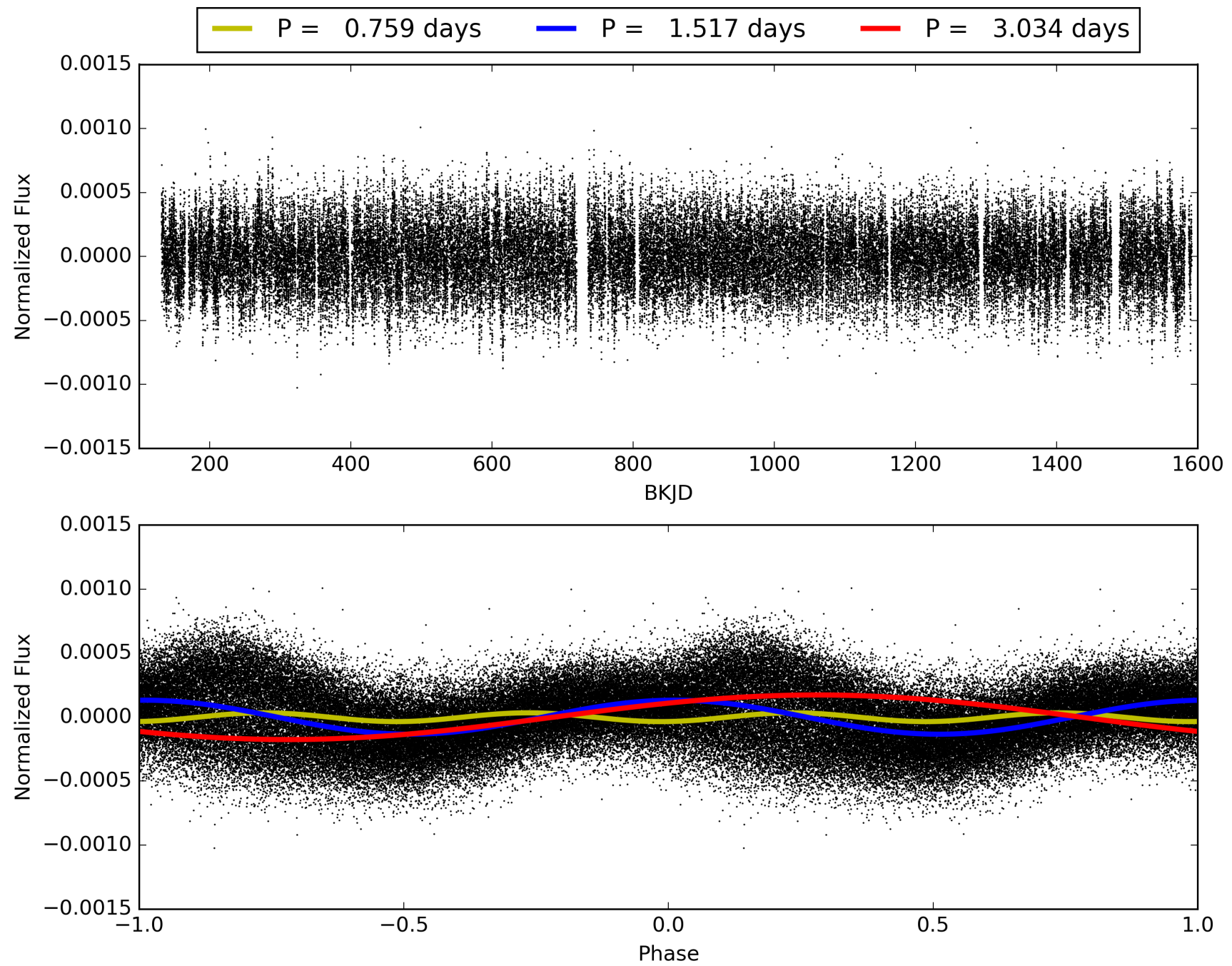
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:07:07 Z

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

TCE 006962380-01, PDC Light Curves

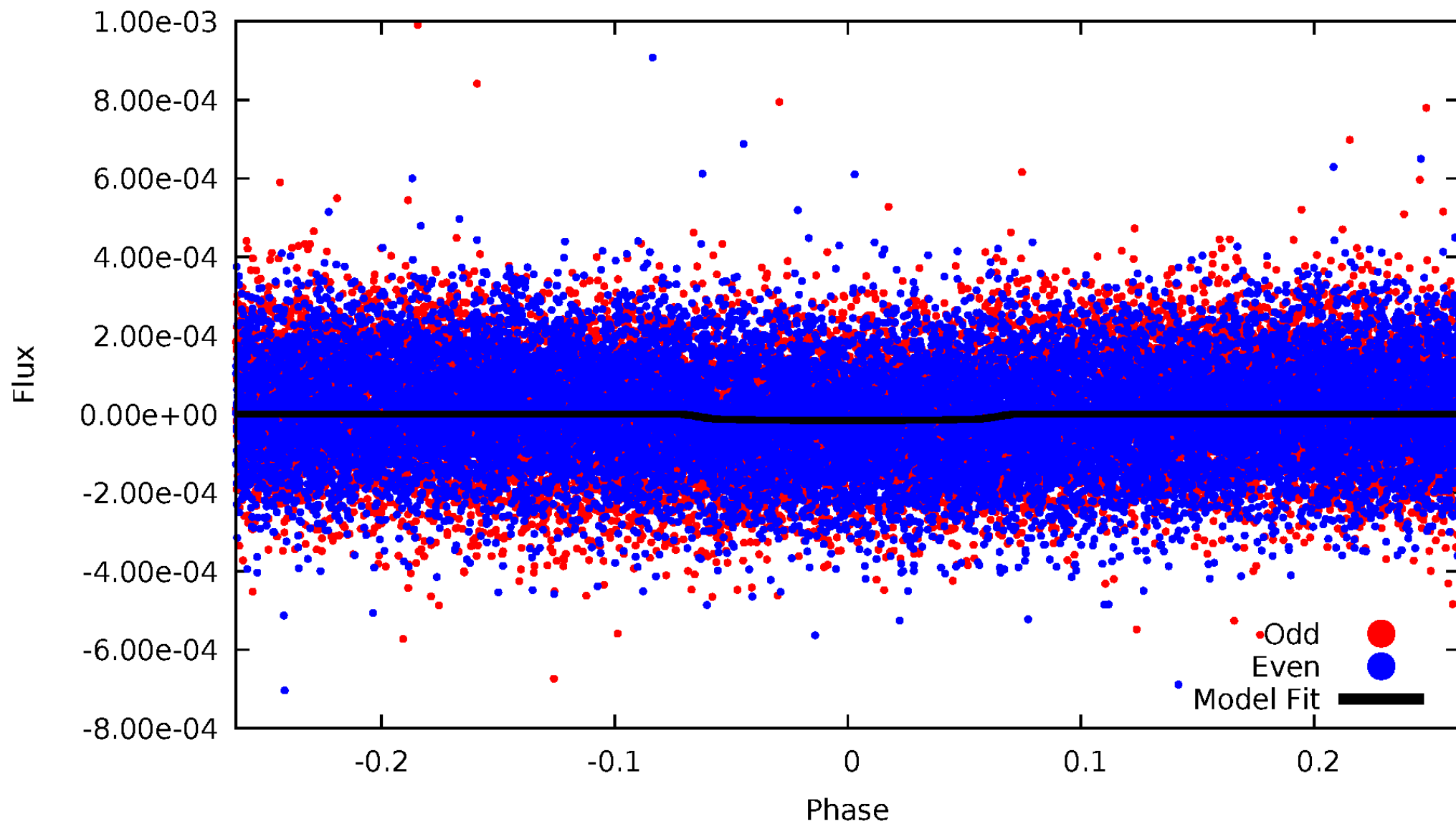


TCE 006962380-01



DV Odd/Even

TCE 006962380-01

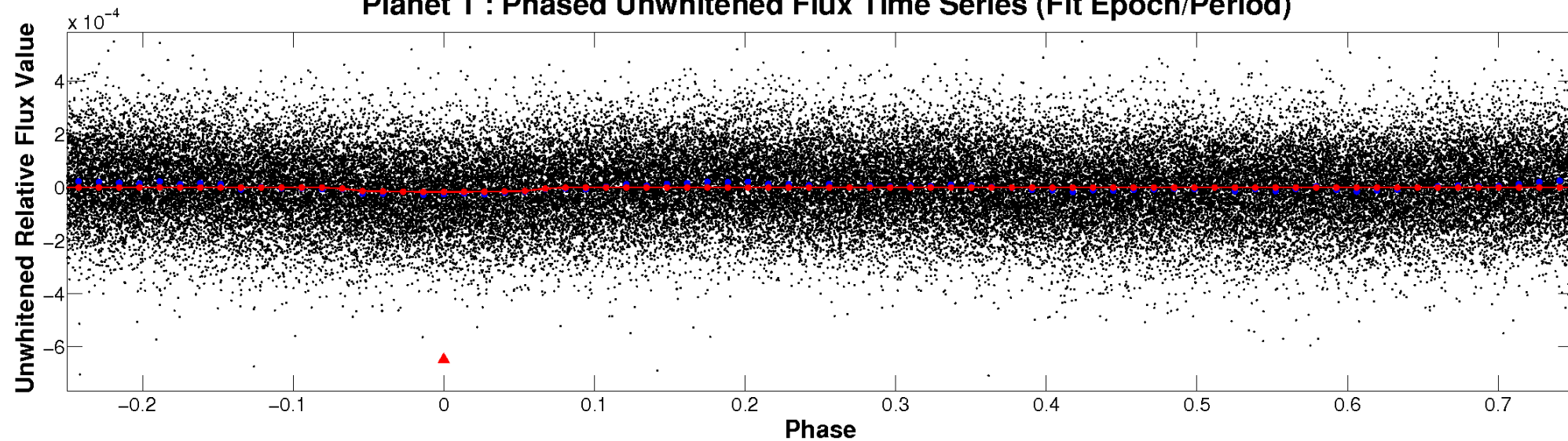


ALT Odd/Even

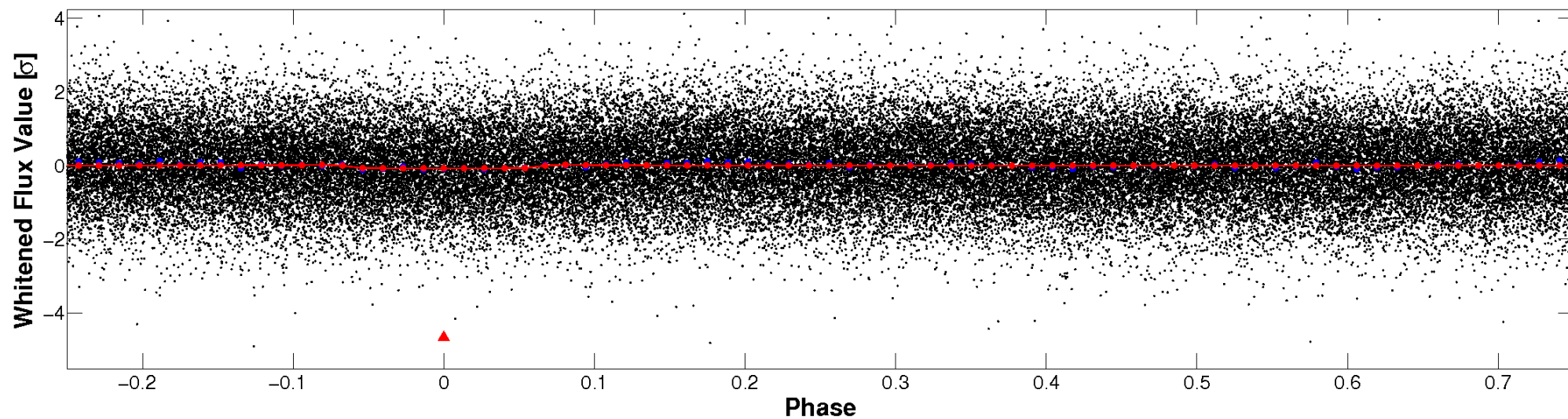
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

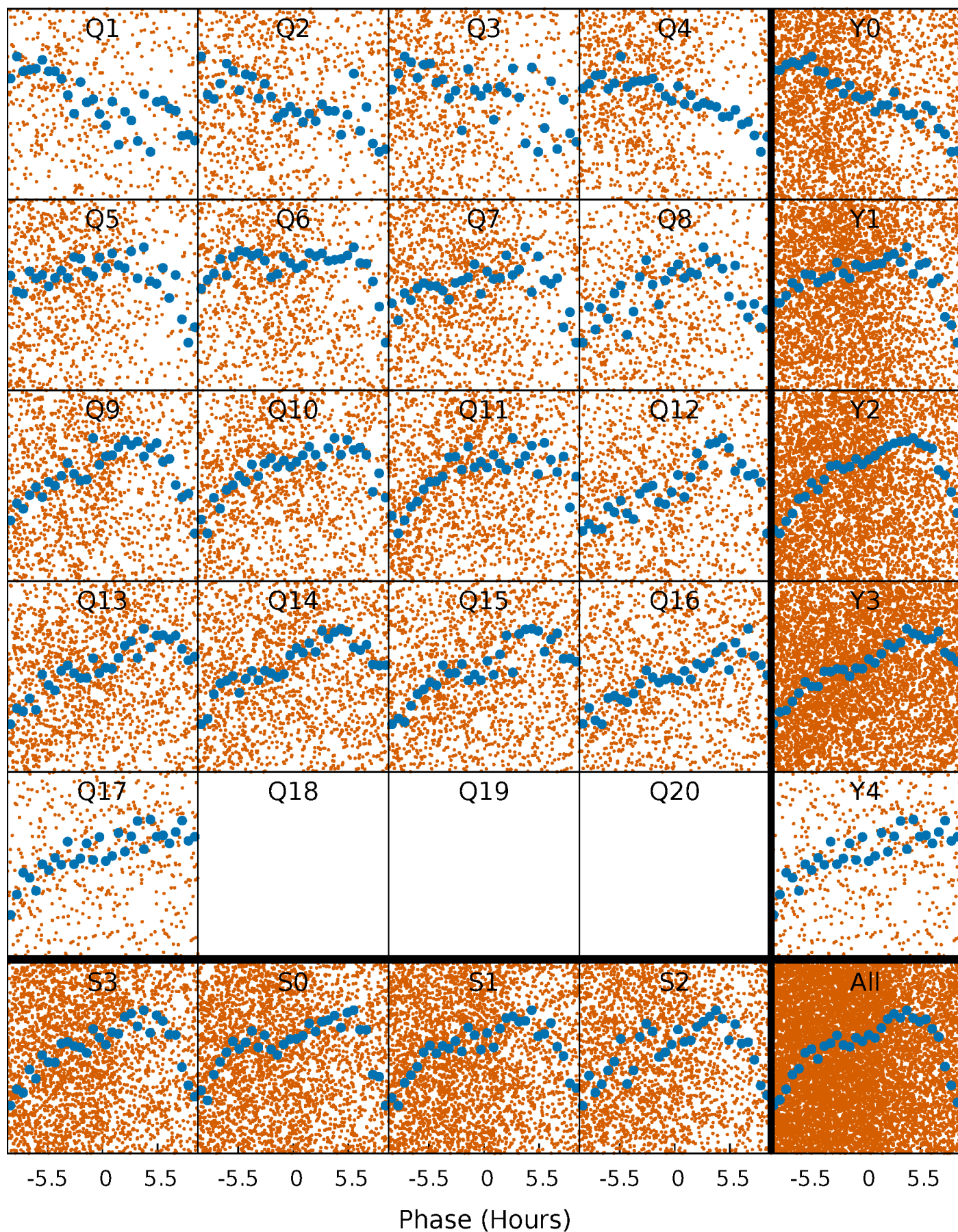


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



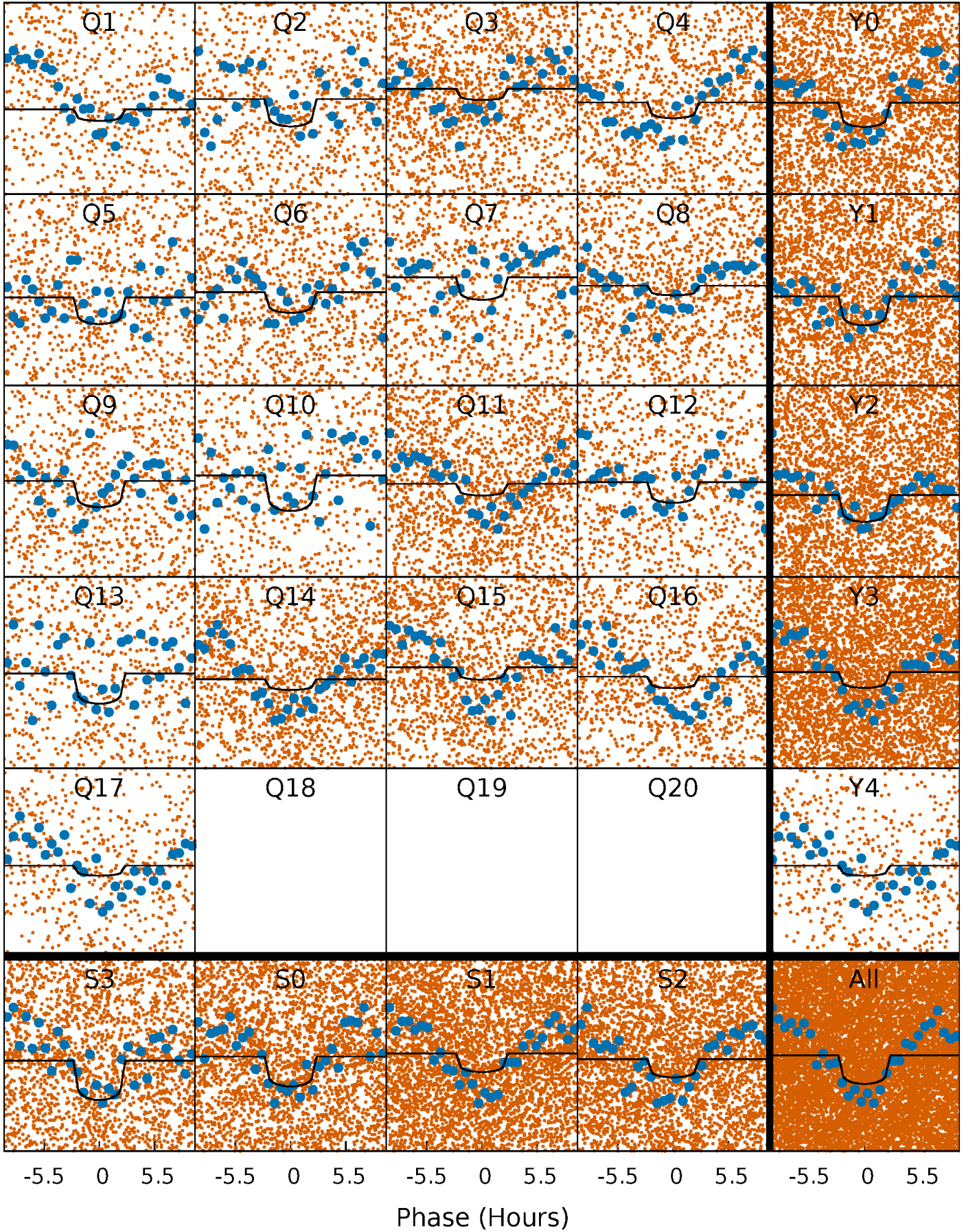
PDC Quarter-Phased Transit Curves

TCE 006962380-01 P= 1.517045 Days $T_0=132.265066$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 006962380-01 P= 1.517045 Days $T_0=132.265066$ (BKJD)

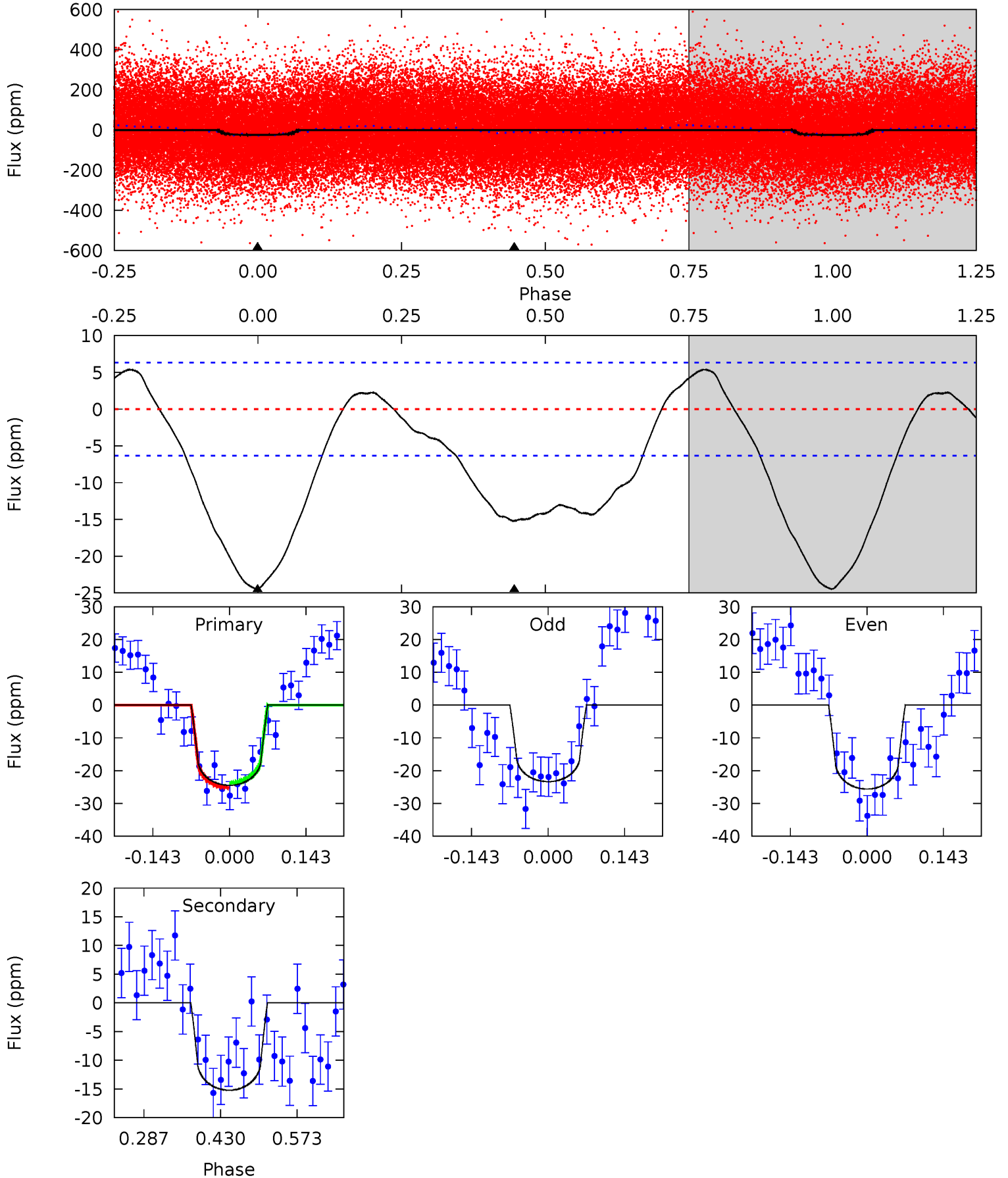


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006962380-01, P = 1.517045 Days, E = 130.748021 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.3	10.8	0	0	4.49	1.46	3.71	17.3	17.3	10.8	10.8	0.80	1.01	0.18	0.50



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006962380

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6729^{+71}_{-91}	$3.998^{+0.174}_{-0.116}$	$0.020^{+0.150}_{-0.150}$	$2.040^{+0.376}_{-0.460}$	$1.510^{+0.130}_{-0.156}$	$0.250^{+0.235}_{-0.090}$
	+1%/-1%	+4%/-3%	+750%/-750%	+18%/-23%	+9%/-10%	+94%/-36%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 006962380-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-15 ± 1	$0.84^{+0.22}_{-0.21}$	3420^{+167}_{-206}	6702^{+1126}_{-723}	10^{+8}_{-4}
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

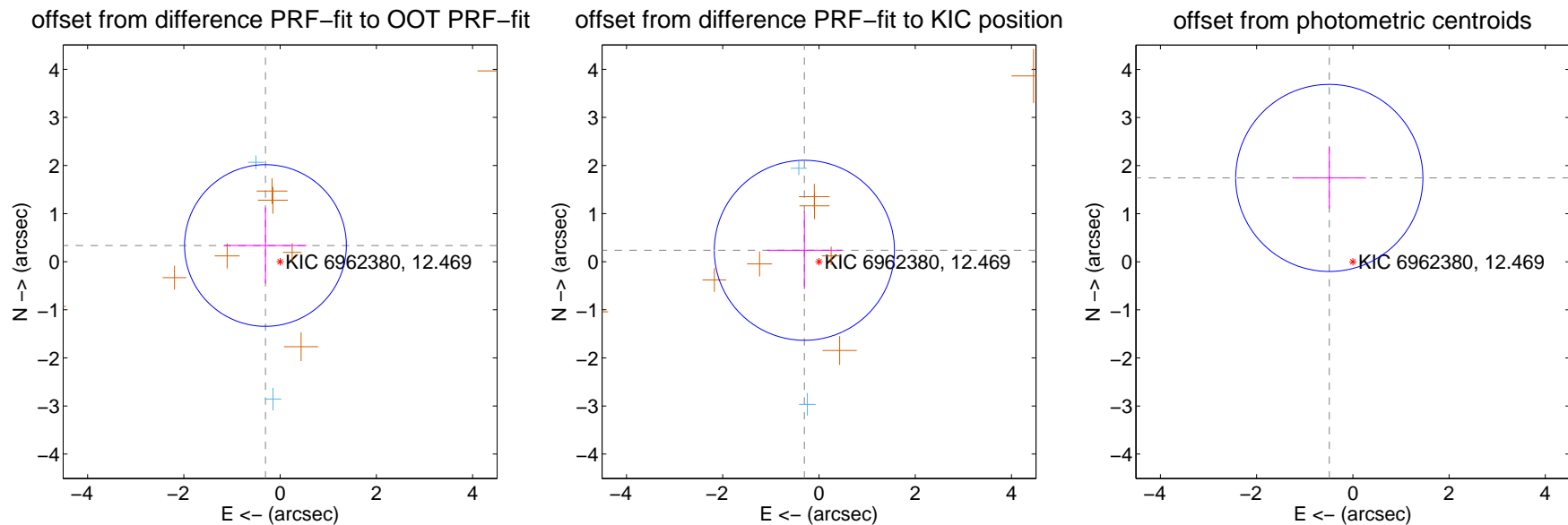
DV Centroid Data

Supplemental centroid analysis for 006962380-01. Kepler magnitude: 12.47. Transit SNR 6.60

There are 2 quarters with good PRF difference image offsets

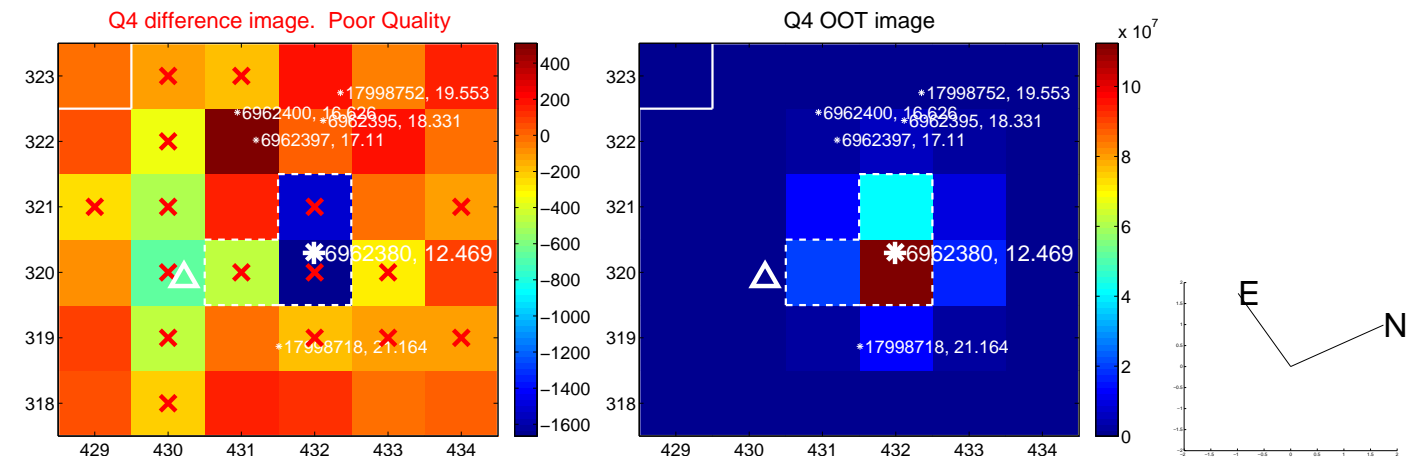
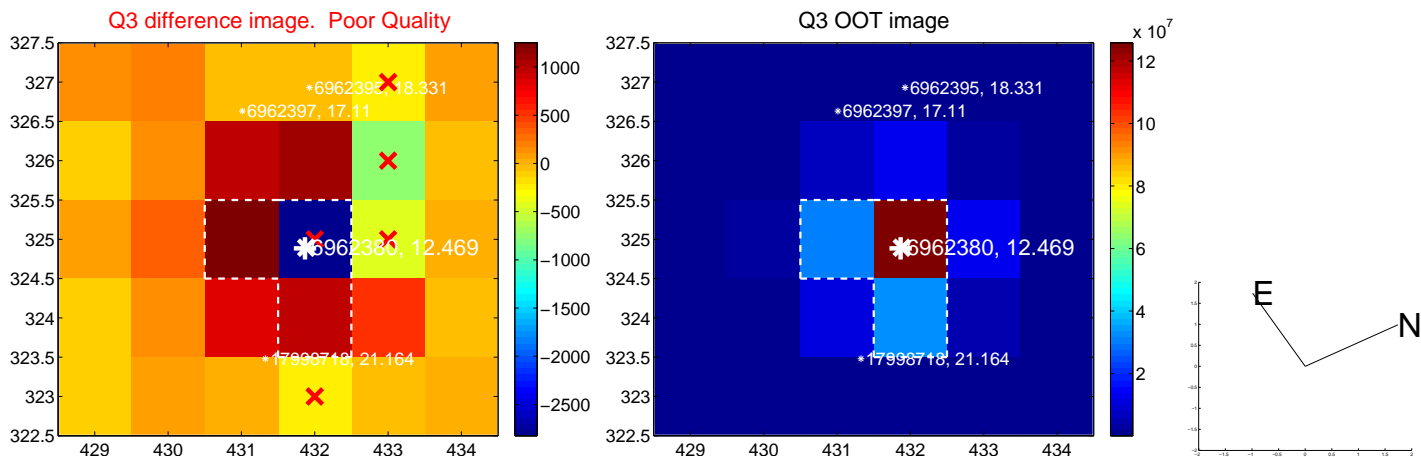
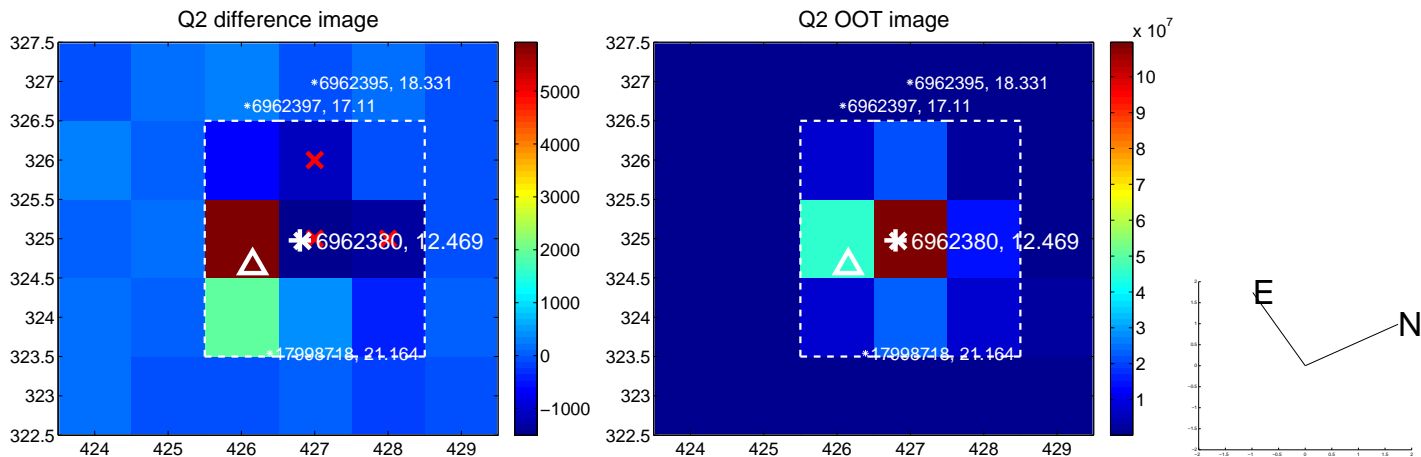
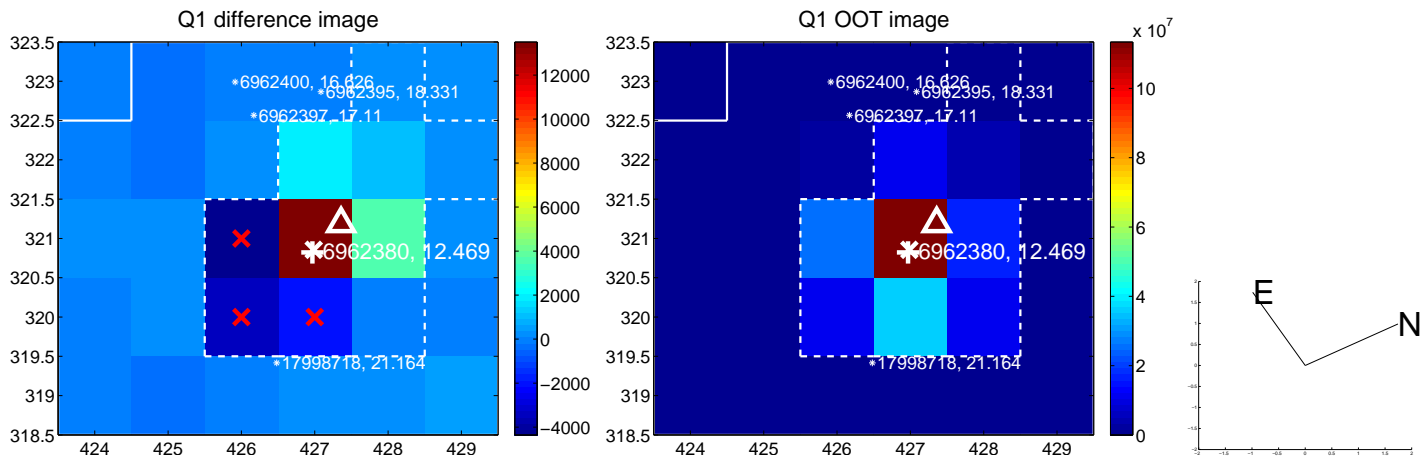
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.454 ± 0.560	0.81	0.304 ± 0.856	0.337 ± 0.790
PRF-fit source offset from KIC position	0.385 ± 0.624	0.62	0.304 ± 0.778	0.237 ± 0.806
photometric centroid source offset	1.81 ± 0.65	2.79	0.49 ± 0.76	1.74 ± 0.64

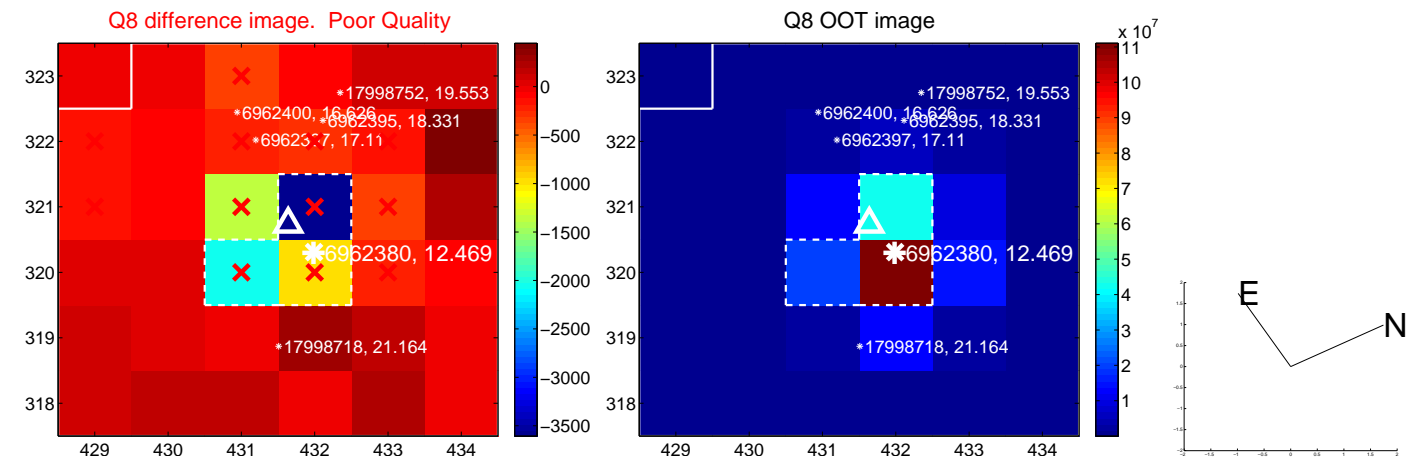
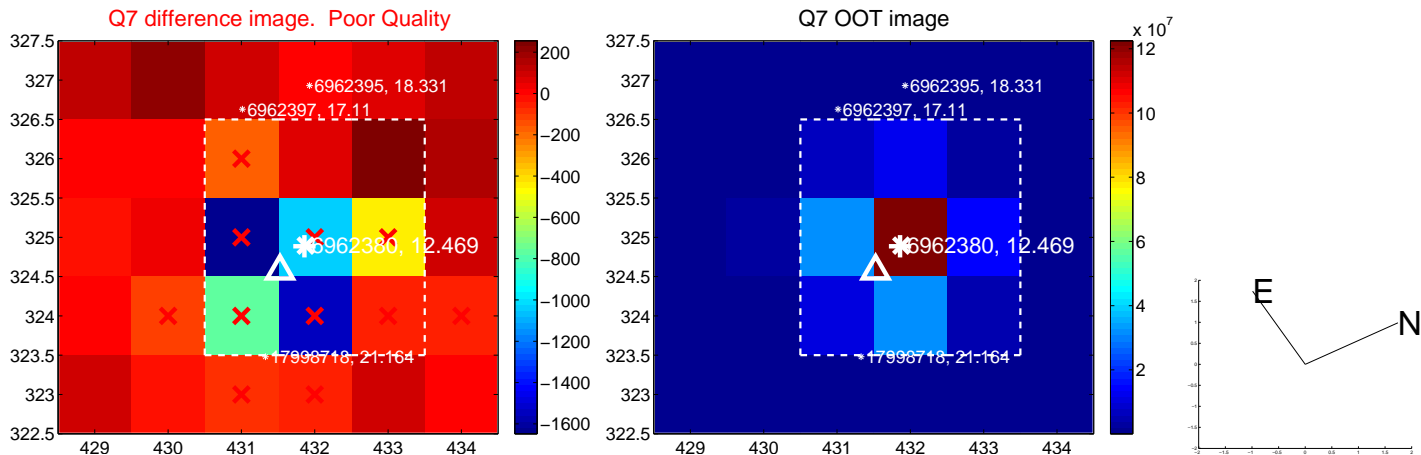
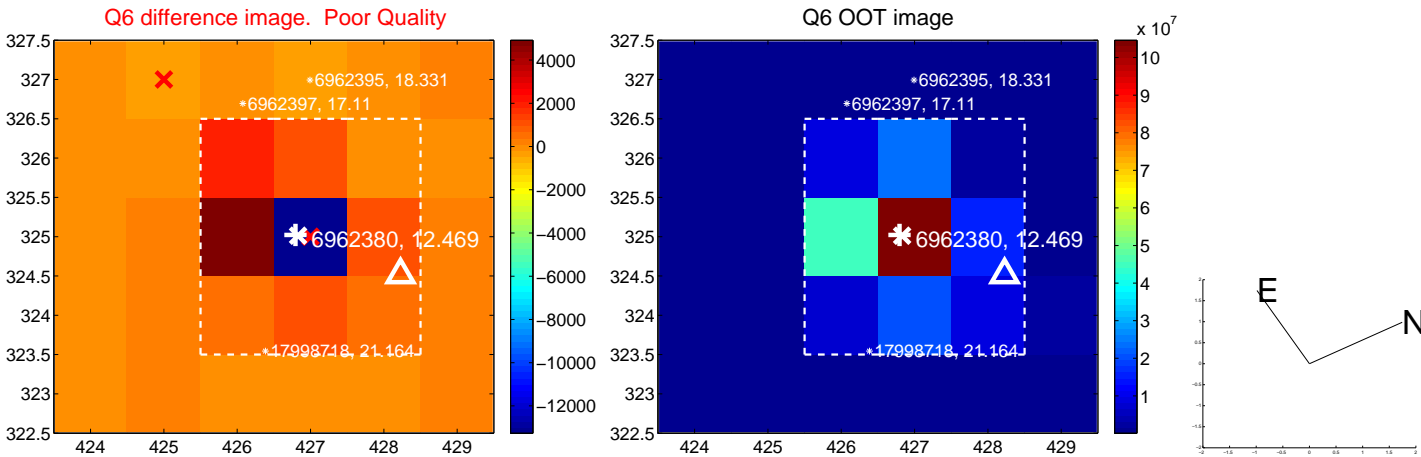
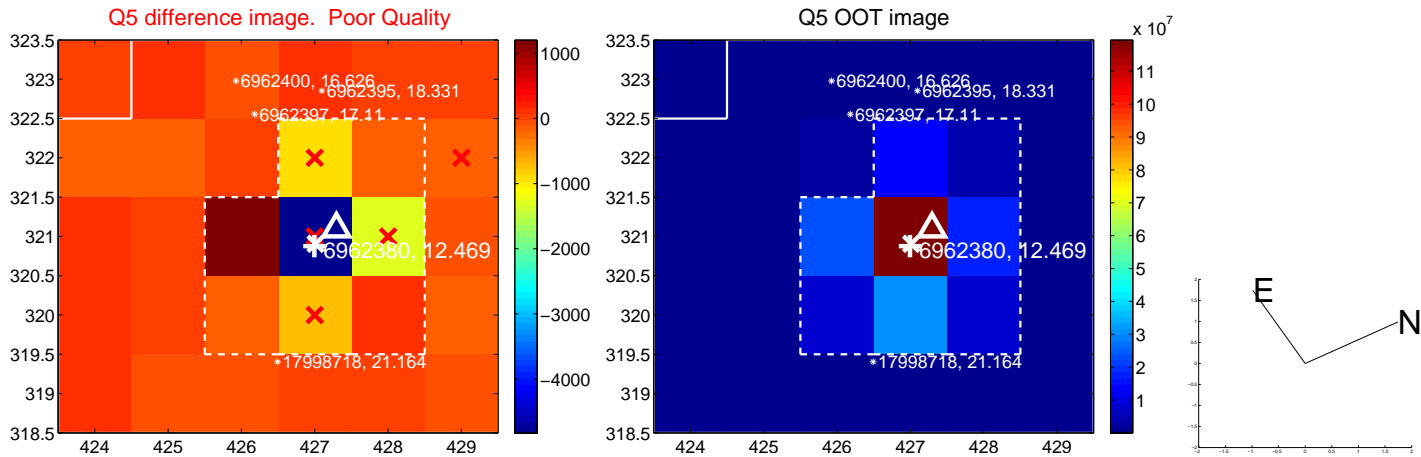


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

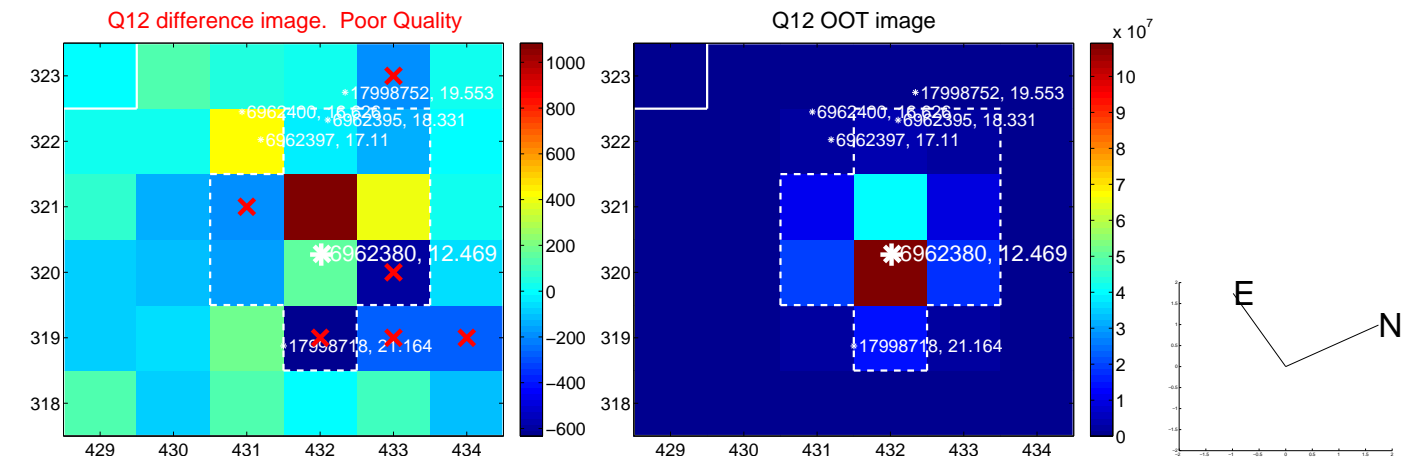
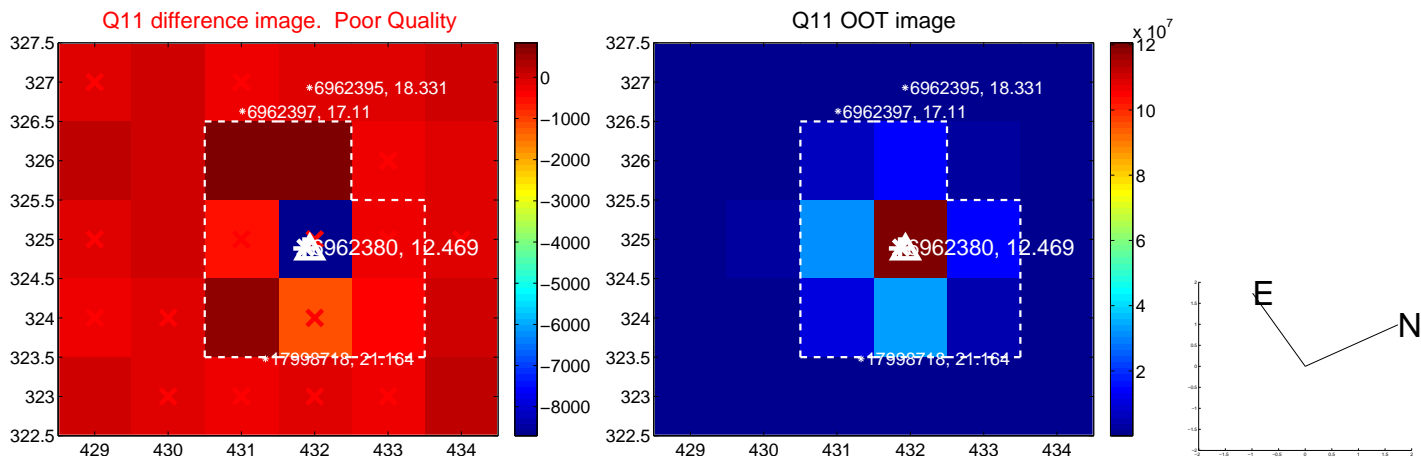
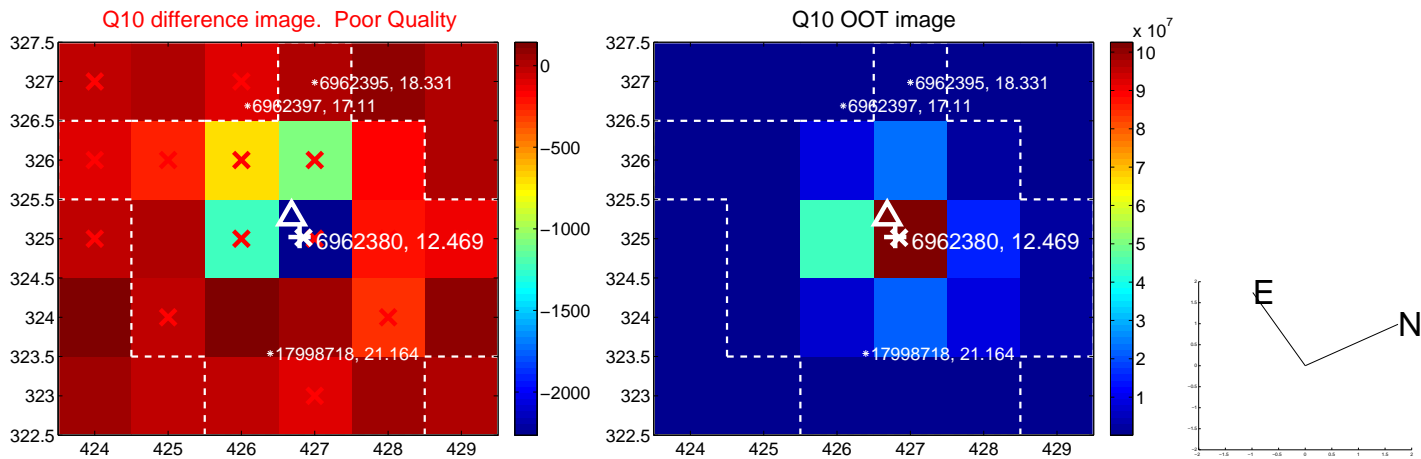
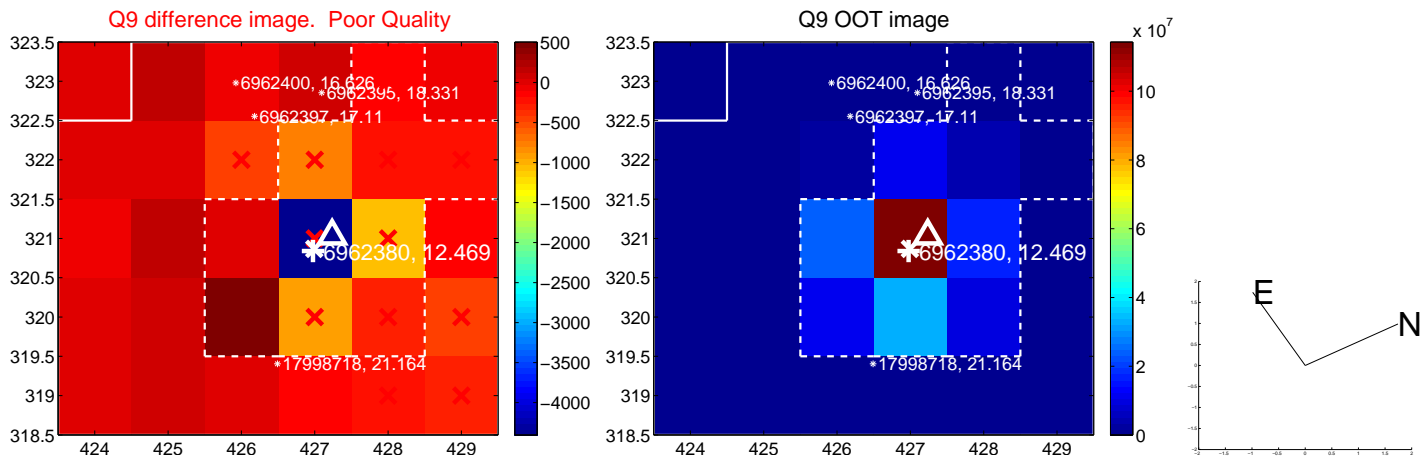
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



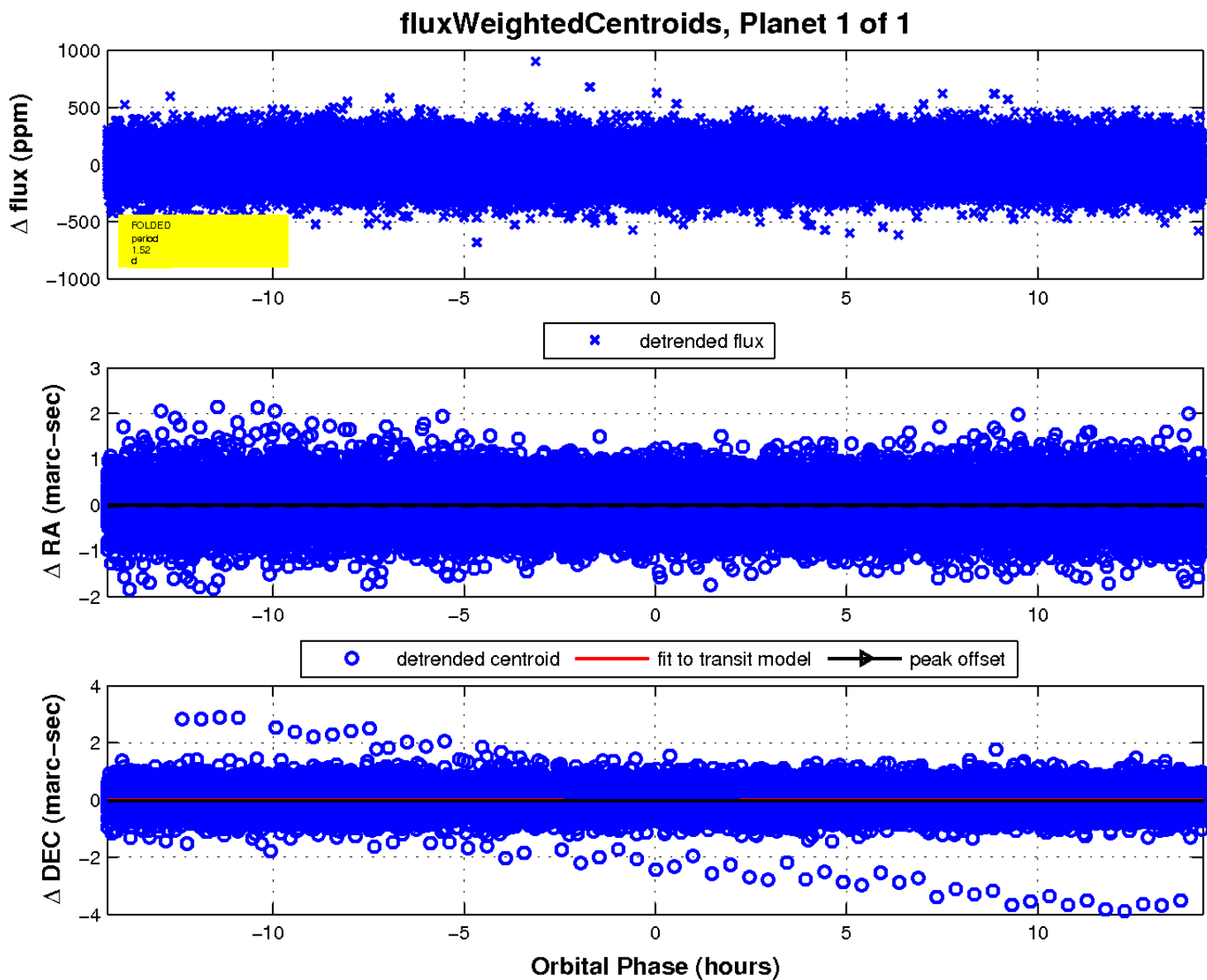
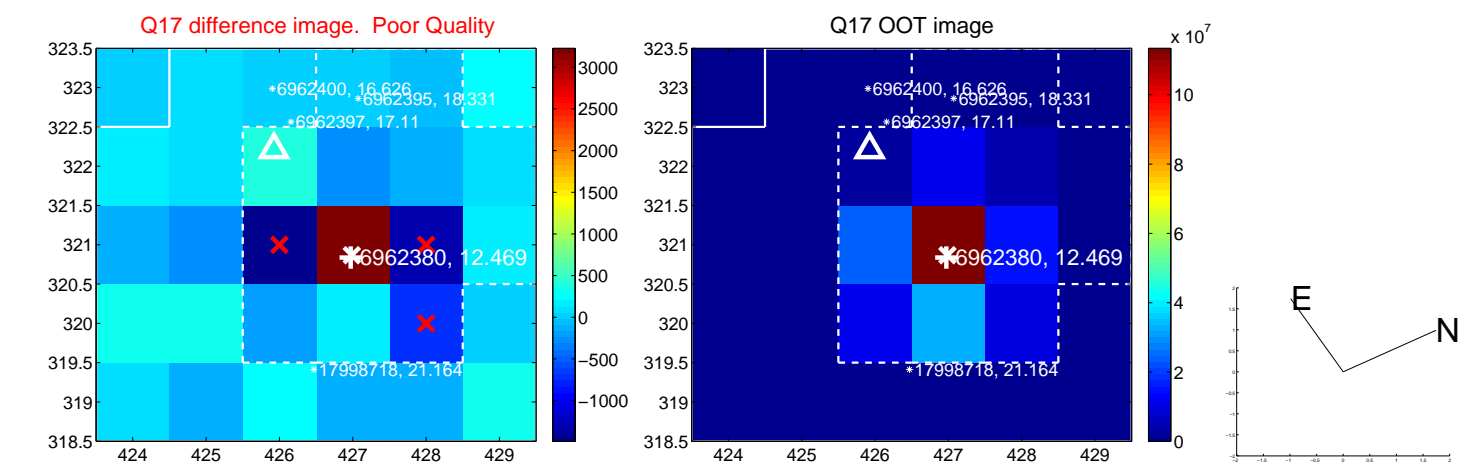
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

