

KIC 003246782

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})
003246782-01	OBS	No	1.694170	131.650623	159.6	6.000	11.0	-1.0	2.49	6392	3.16	9194.23

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003246782-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—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.

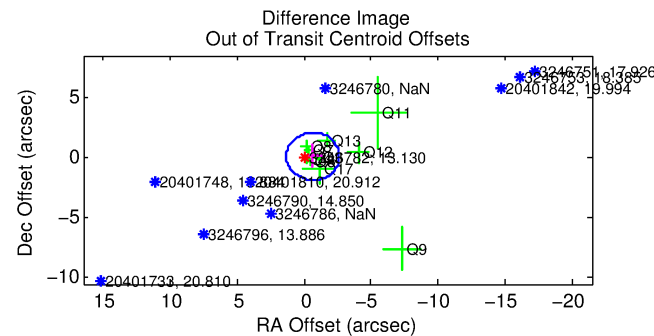
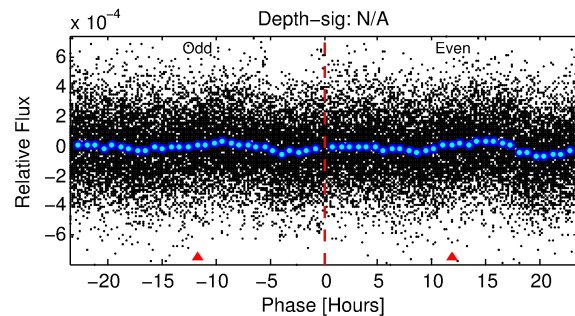
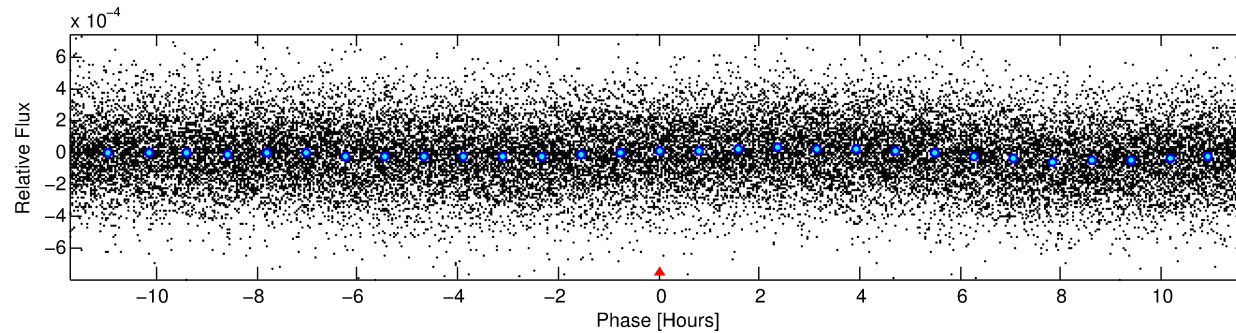
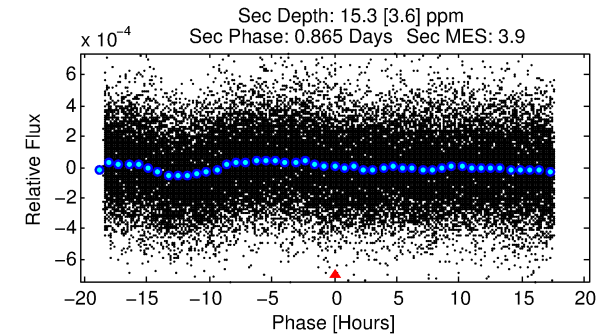
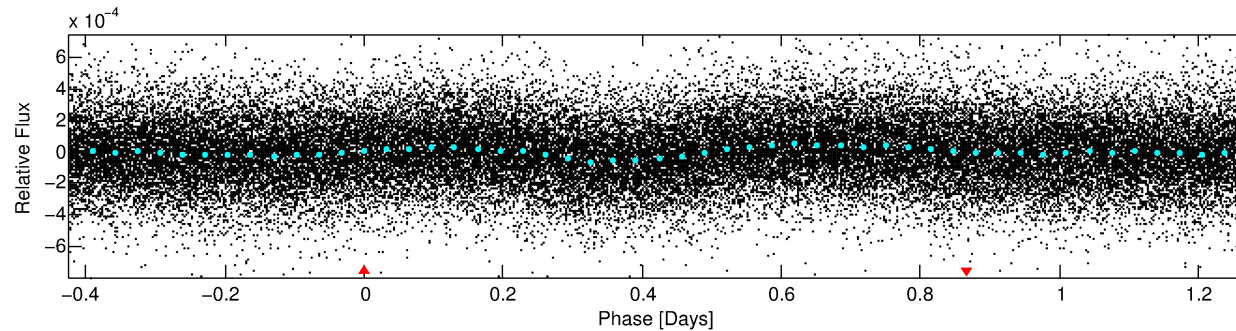
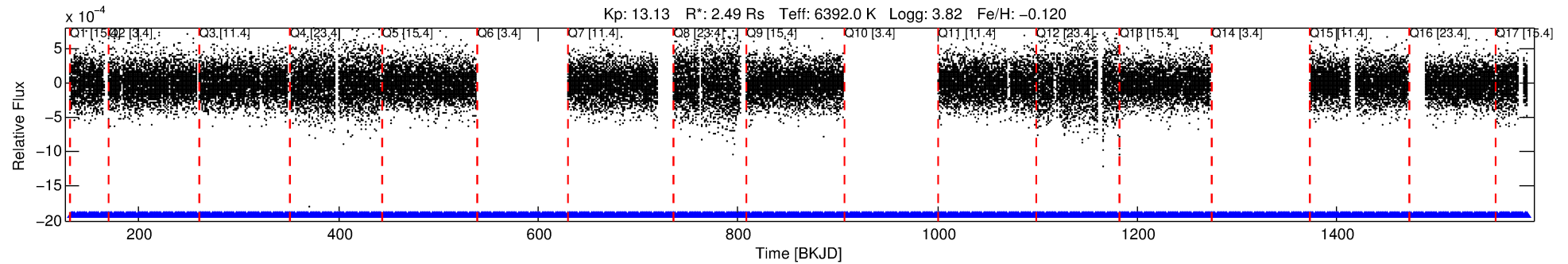
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003246782-01

No Significant Match Found

DV One-Page Summary

KIC: 3246782 Candidate: 1 of 1 Period: 1.694 d



TPS TCE Results:

Period = 1.69417 d
Epoch = 131.6506 BKJD

DV fit results are unavailable

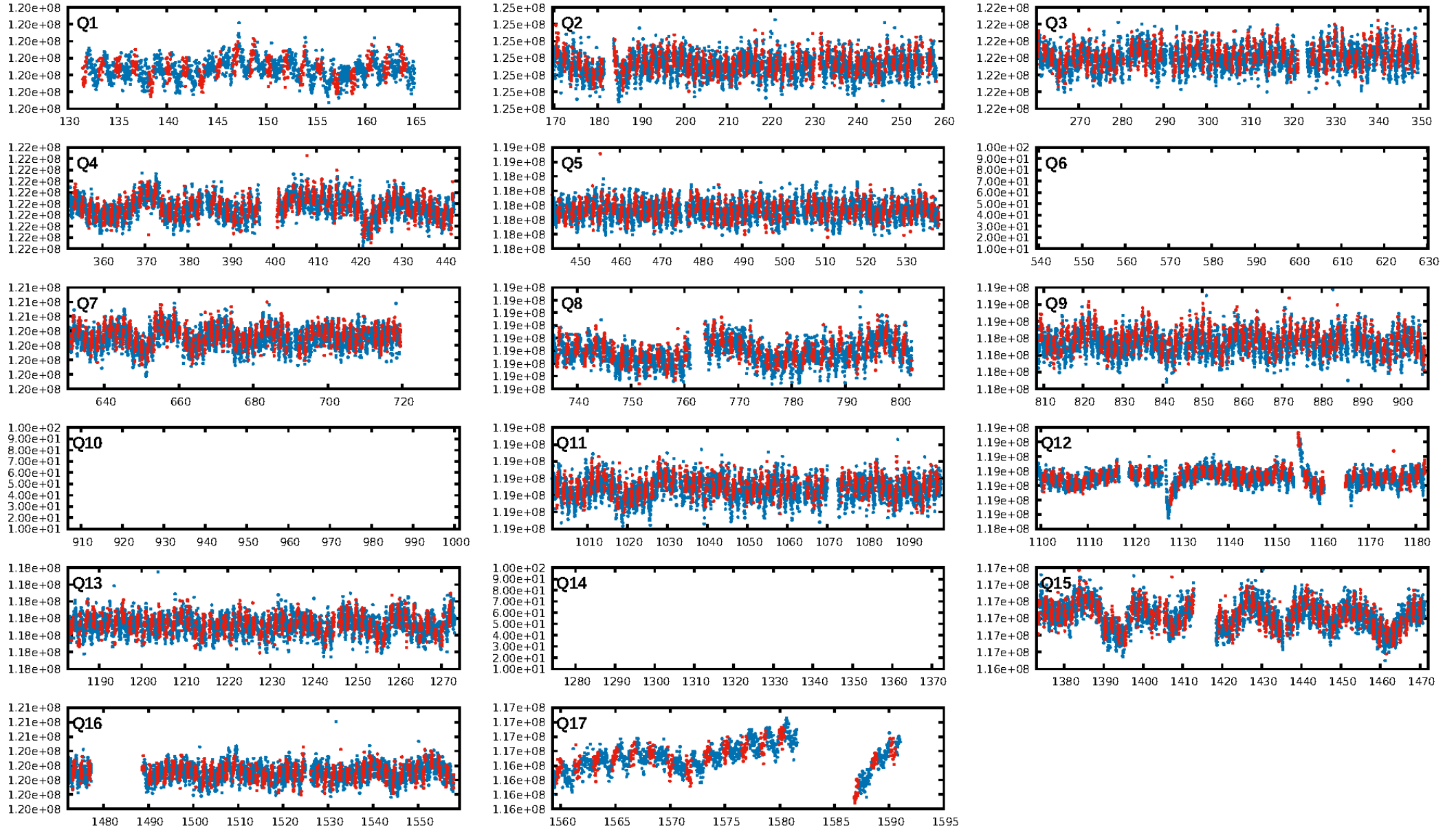
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.06e-20
RollingBand-fgt: 1.00 [595/595]
GhostDiagnostic-chr: -1.901
Centroid-sig: 1.9%
Centroid-so: 0.331 arcsec [0.47σ]
OotOffset-rm: 0.653 arcsec [0.99σ]
KicOffset-rm: 0.431 arcsec [0.57σ]
OotOffset-st: 0/3/3/4 [10]
KicOffset-st: 0/3/3/4 [10]
DiffImageQuality-fgm: 0.50 [5/10]
DiffImageOverlap-fno: 1.00 [14/14]

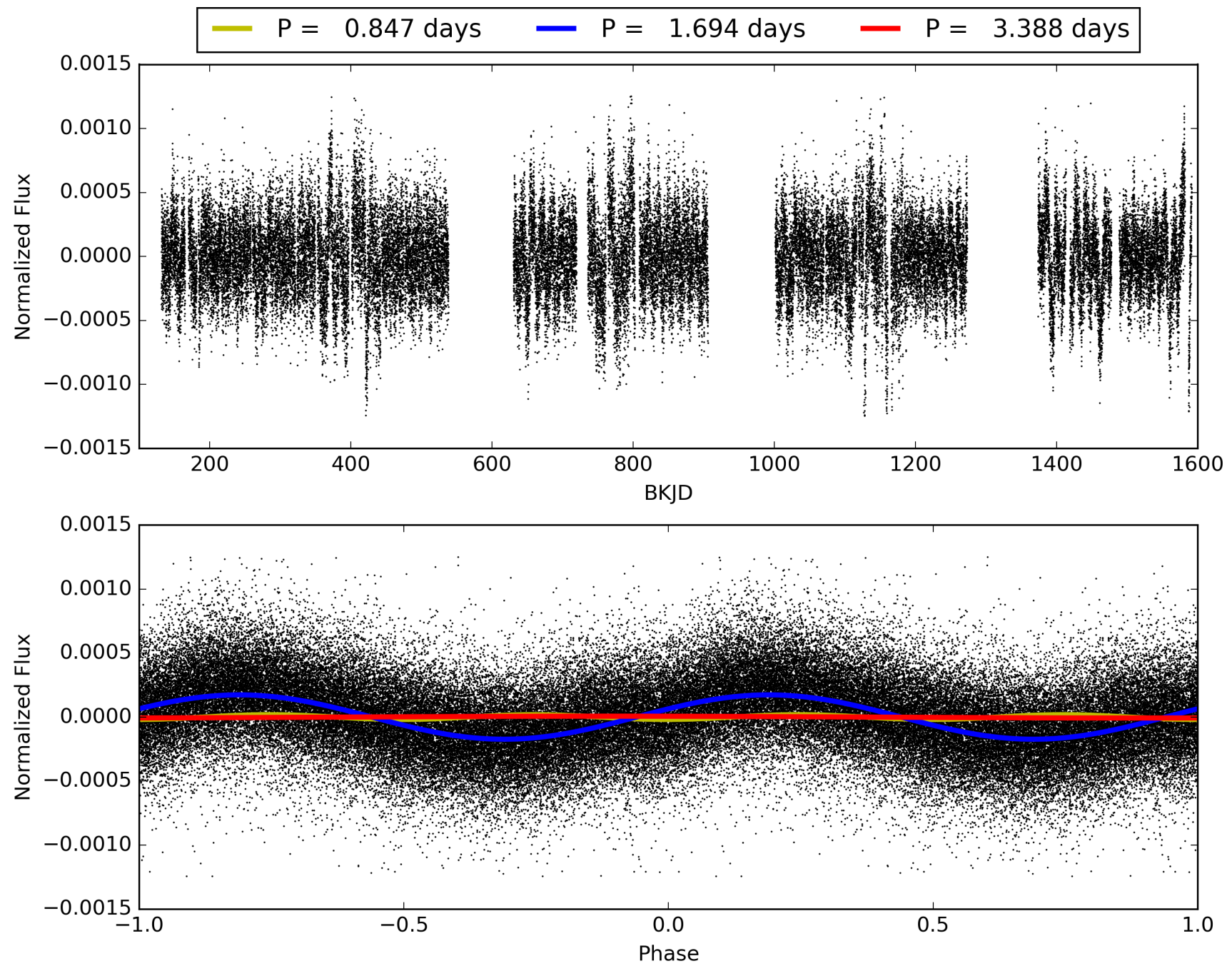
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 09:50:39 Z

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

TCE 003246782-01, PDC Light Curves

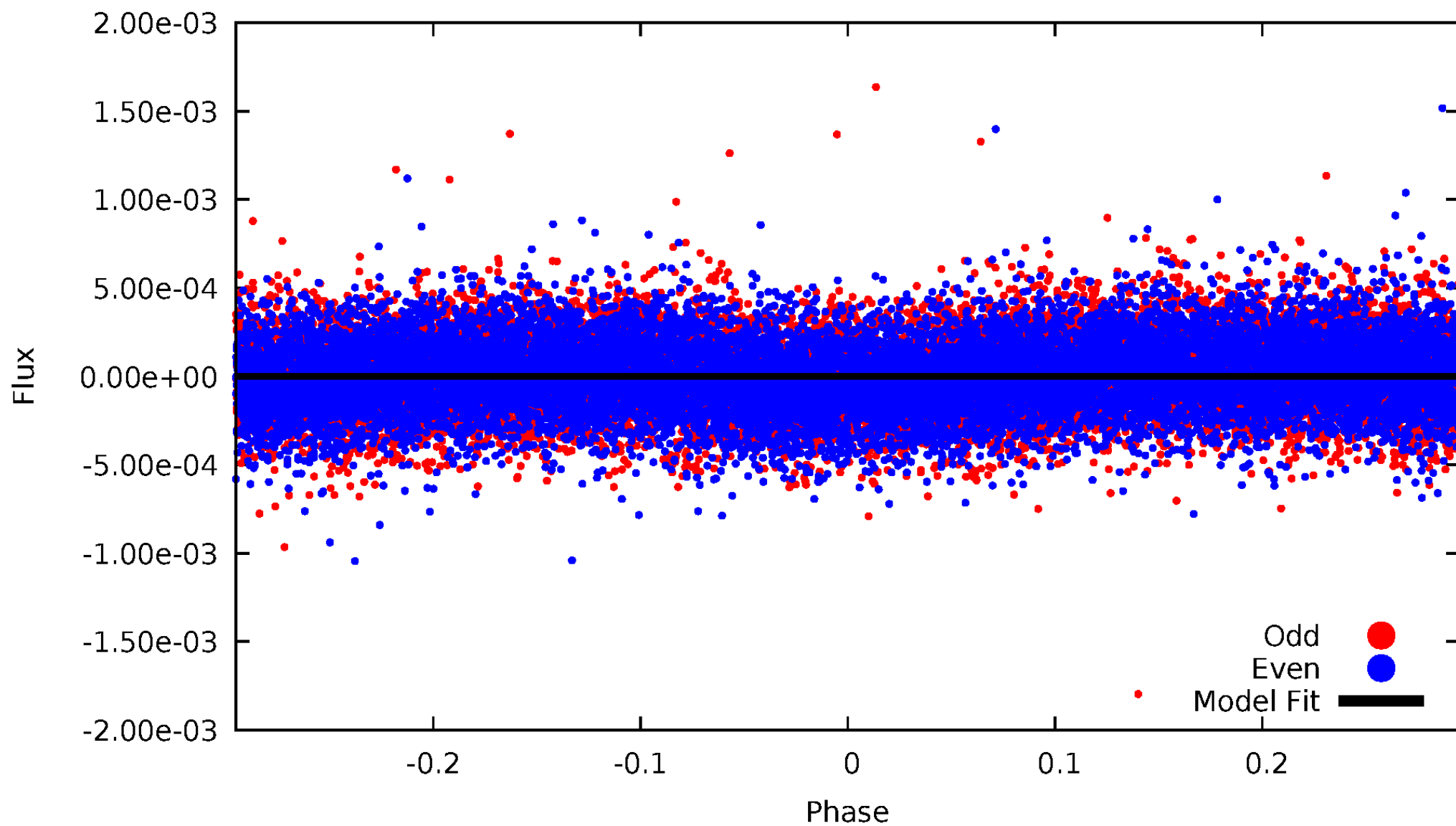


TCE 003246782-01



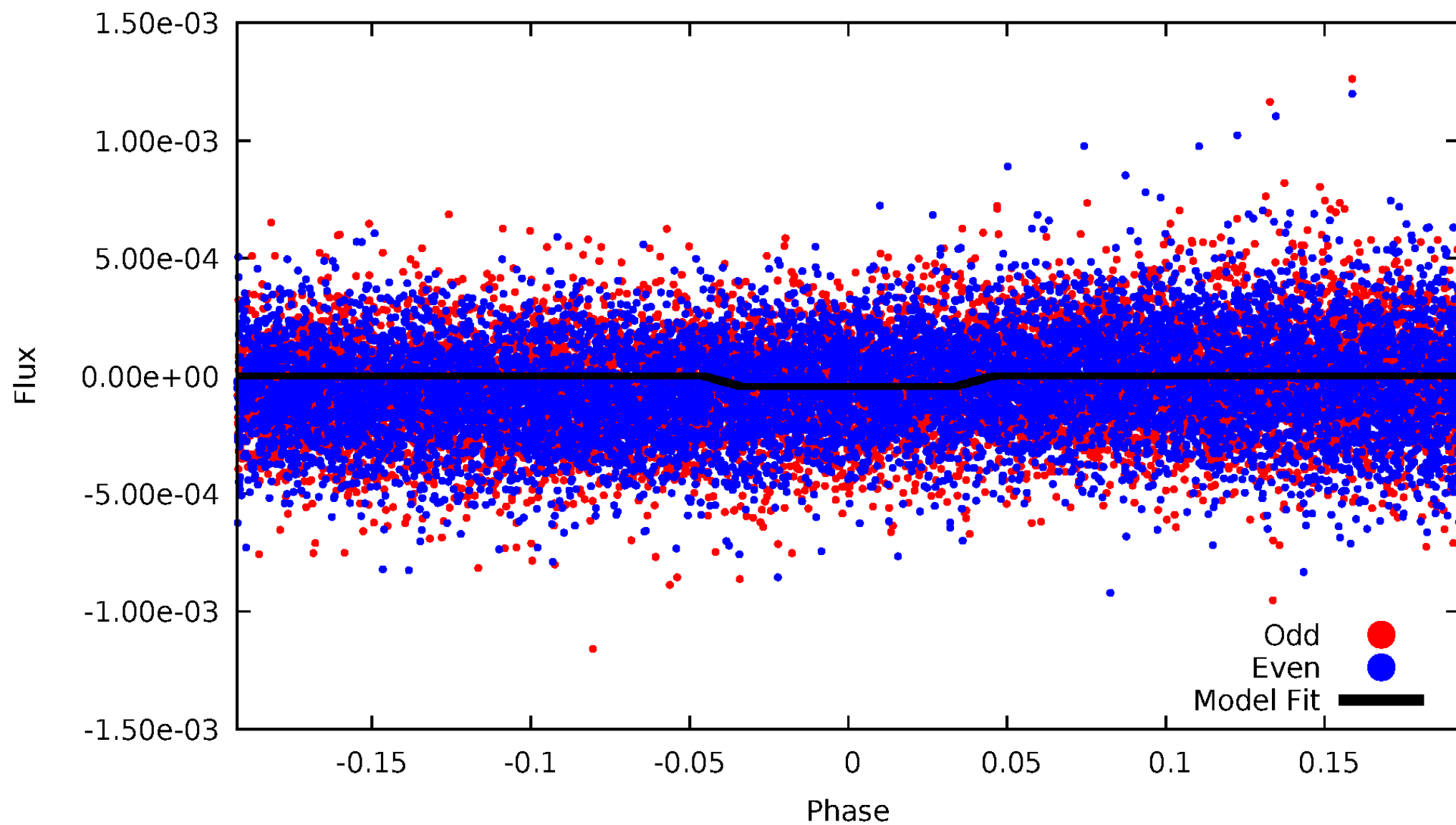
DV Odd/Even

TCE 003246782-01

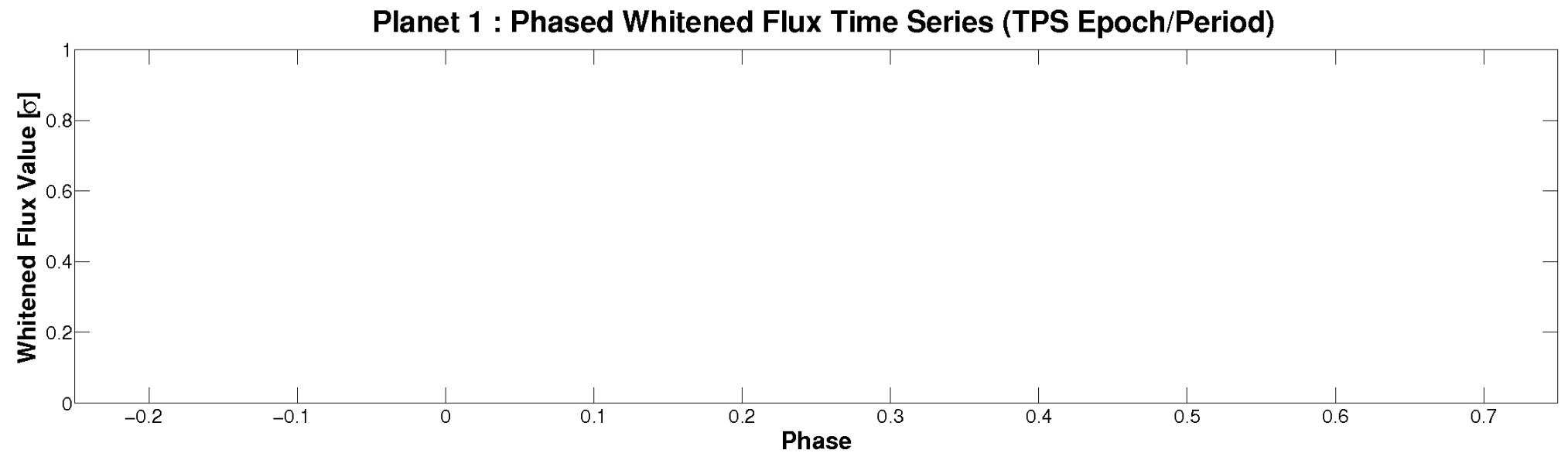
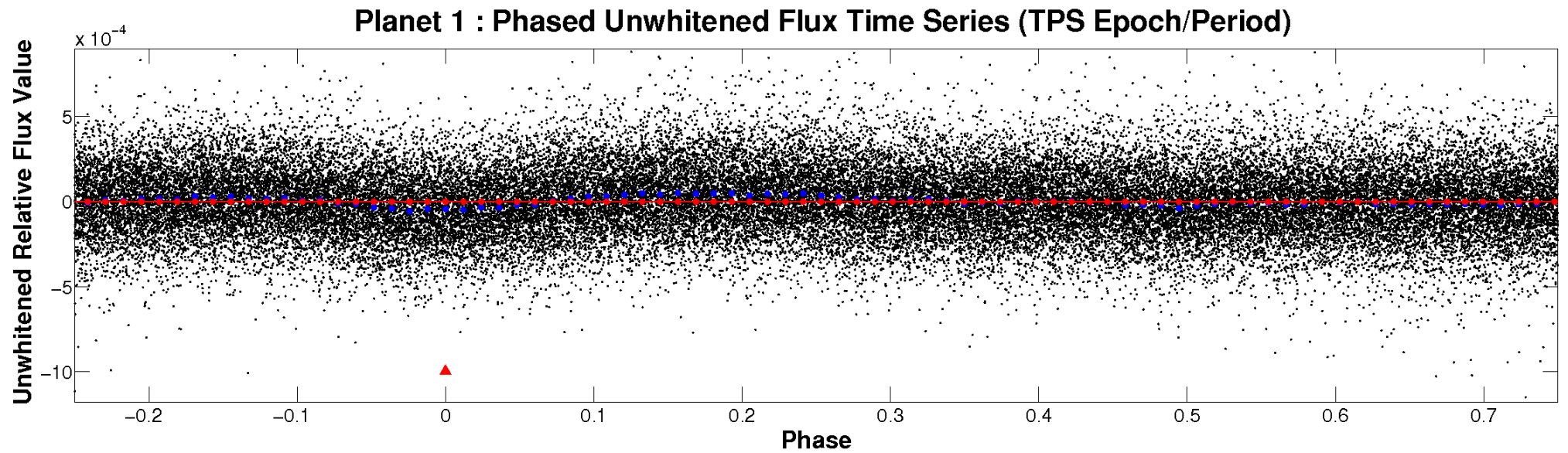


ALT Odd/Even

TCE 003246782-01

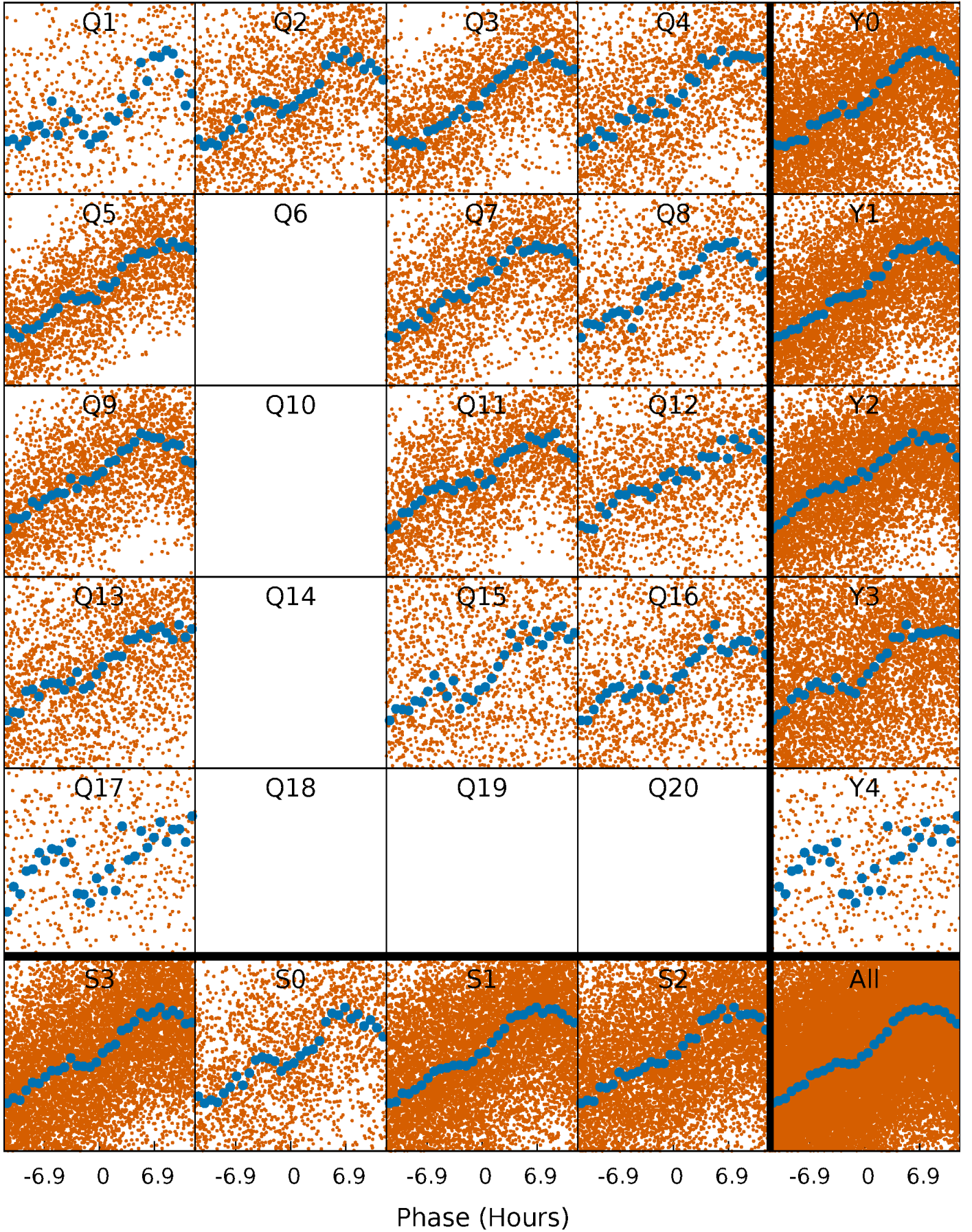


Non-Whitened Vs. Whitened Light Curve



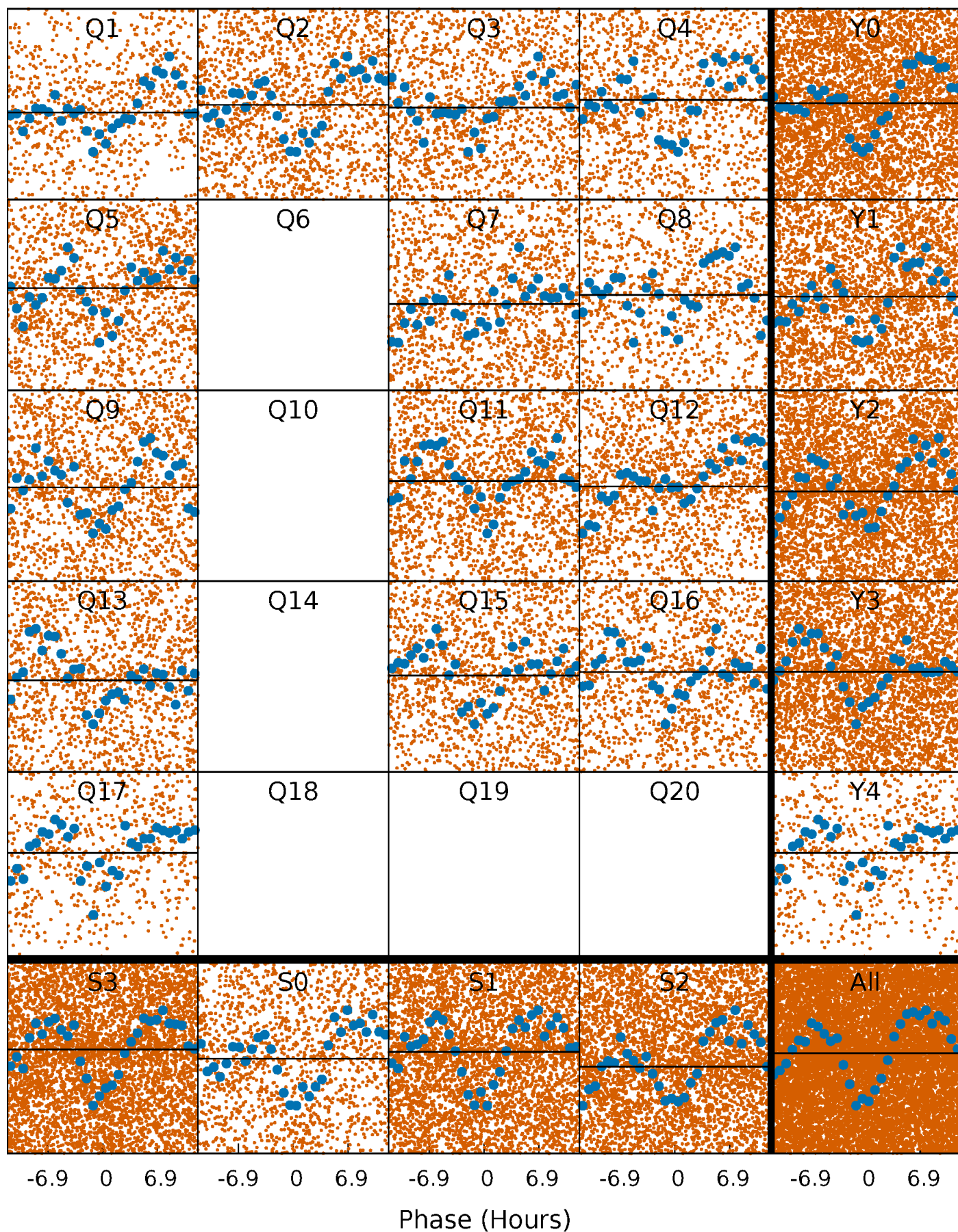
PDC Quarter-Phased Transit Curves

TCE 003246782-01 P= 1.694170 Days $T_0=131.650623$ (BKJD)



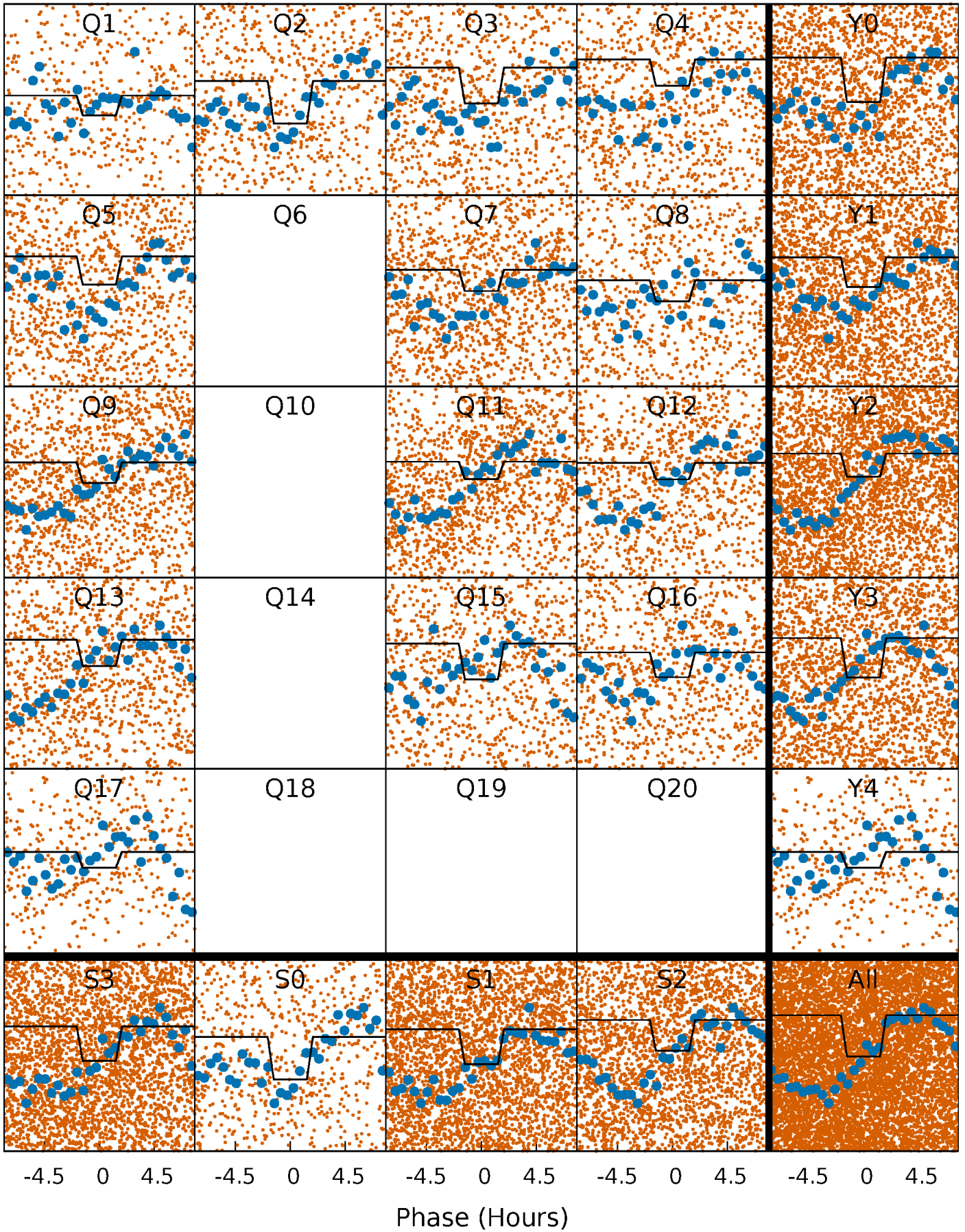
DV Quarter-Phased Transit Curves

TCE 003246782-01 P= 1.694170 Days $T_0=131.650623$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

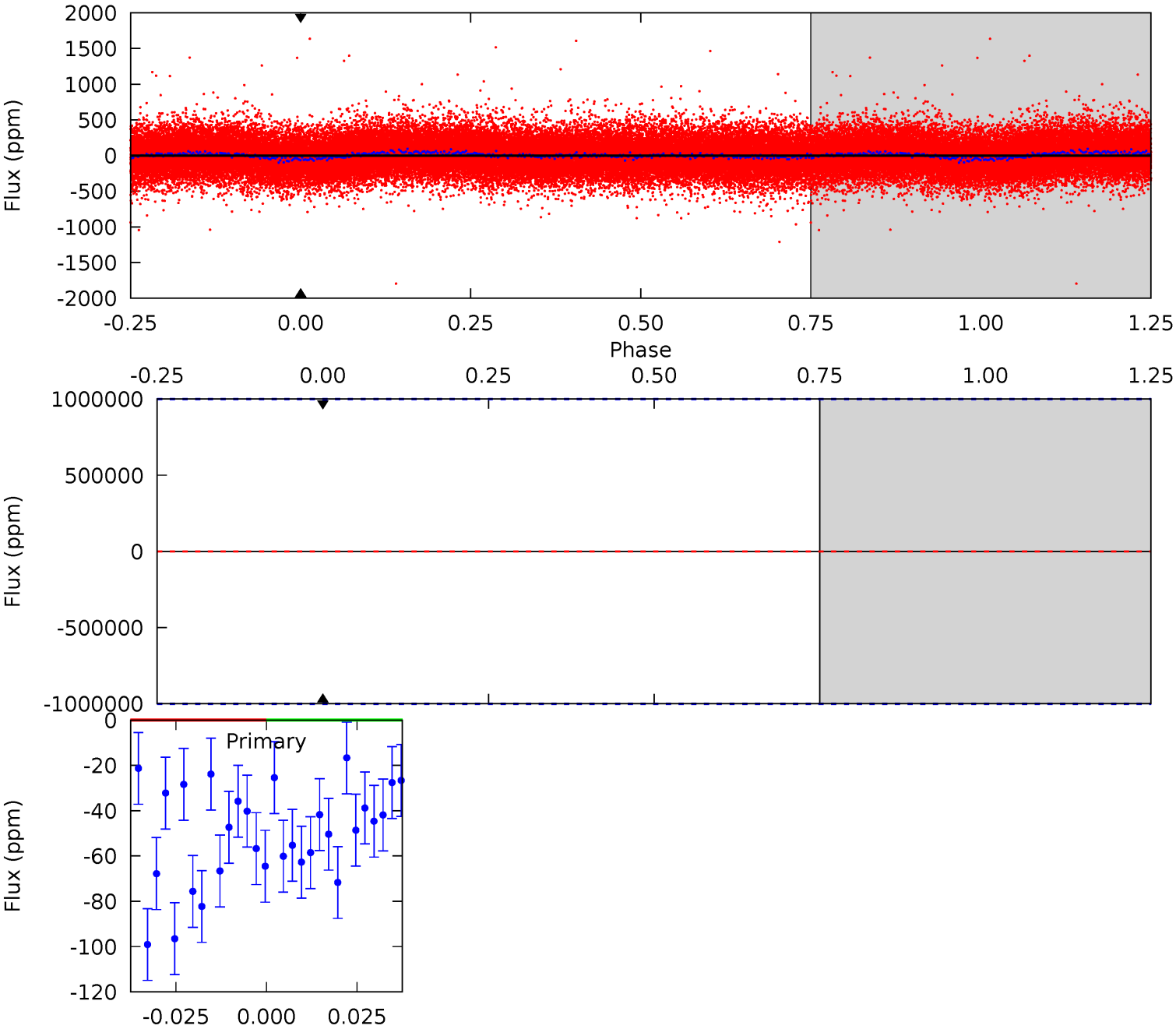
TCE 003246782-01 P= 1.694170 Days $T_0=132.979576$ (BKJD)



DV Model-Shift Uniqueness Test

003246782-01, P = 1.694170 Days, E = 129.956453 Days

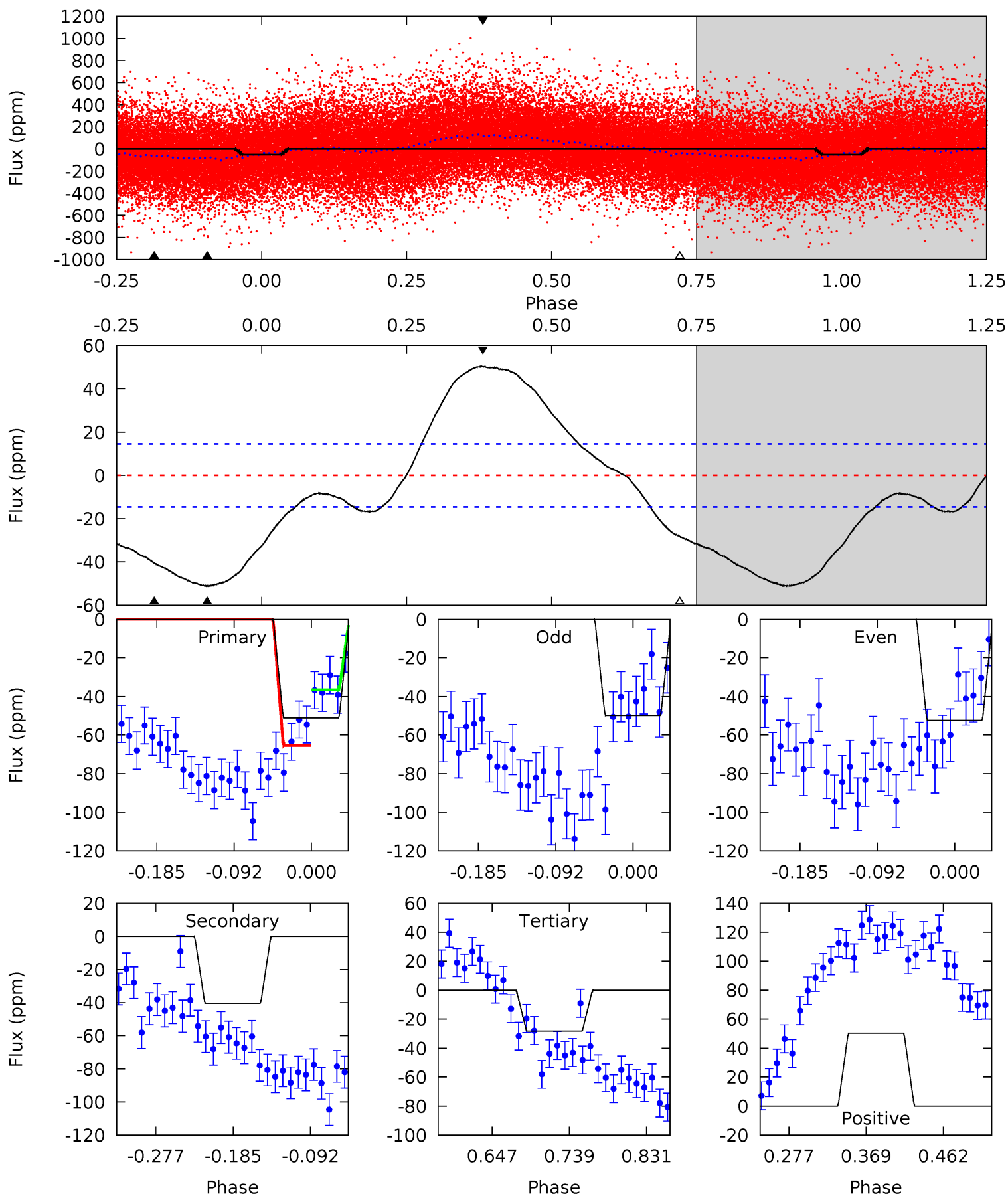
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003246782-01, P = 1.694170 Days, E = 131.285406 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.1	12.7	8.87	15.8	4.58	1.68	8.19	7.20	0.23	3.87	-3.10	0.37	1.06	0.50	4.53



Stellar Parameters For KIC 003246782

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6392^{+175}_{-214}	$3.818^{+0.464}_{-0.116}$	$-0.120^{+0.300}_{-0.300}$	$2.489^{+0.516}_{-1.203}$	$1.487^{+0.185}_{-0.401}$	$0.136^{+0.672}_{-0.050}$
	+3%/-3%	+12%/-3%	+250%/-250%	+21%/-48%	+12%/-27%	+495%/-37%
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 003246782-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$18.48^{+20.18}_{-13.14}$	3385^{+267}_{-426}	2153^{+29928}_{-24644}	$0.309^{+361.158}_{-232.185}$
Alt.	-40 ± 3	$16.95^{+18.15}_{-12.13}$	3388^{+249}_{-422}	-3079^{+6717}_{-302}	$0.079^{+0.885}_{-0.061}$

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 $A_{obs} \gg 1.0$

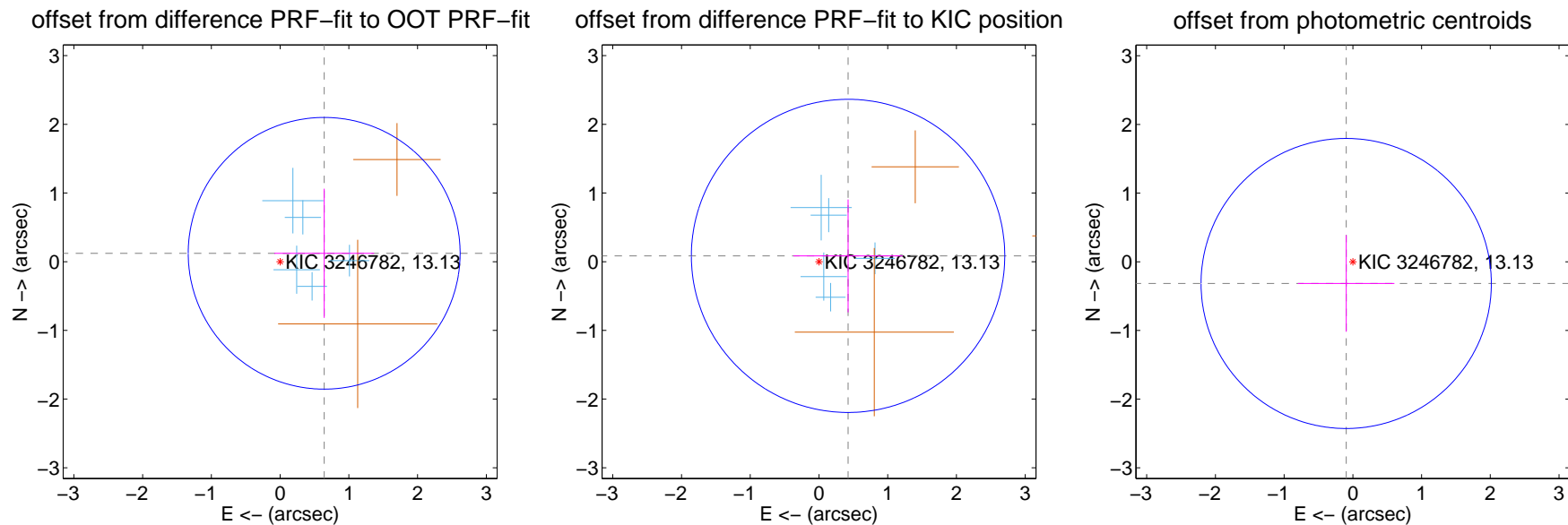
DV Centroid Data

Supplemental centroid analysis for 003246782-01. Kepler magnitude: 13.13. Transit SNR -1.00

There are 5 quarters with good PRF difference image offsets

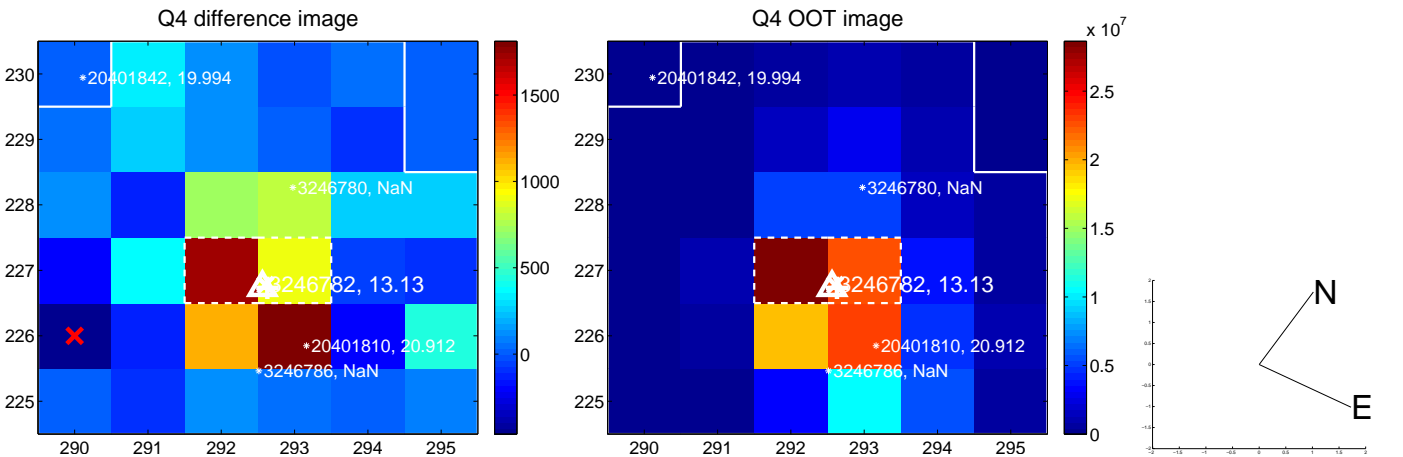
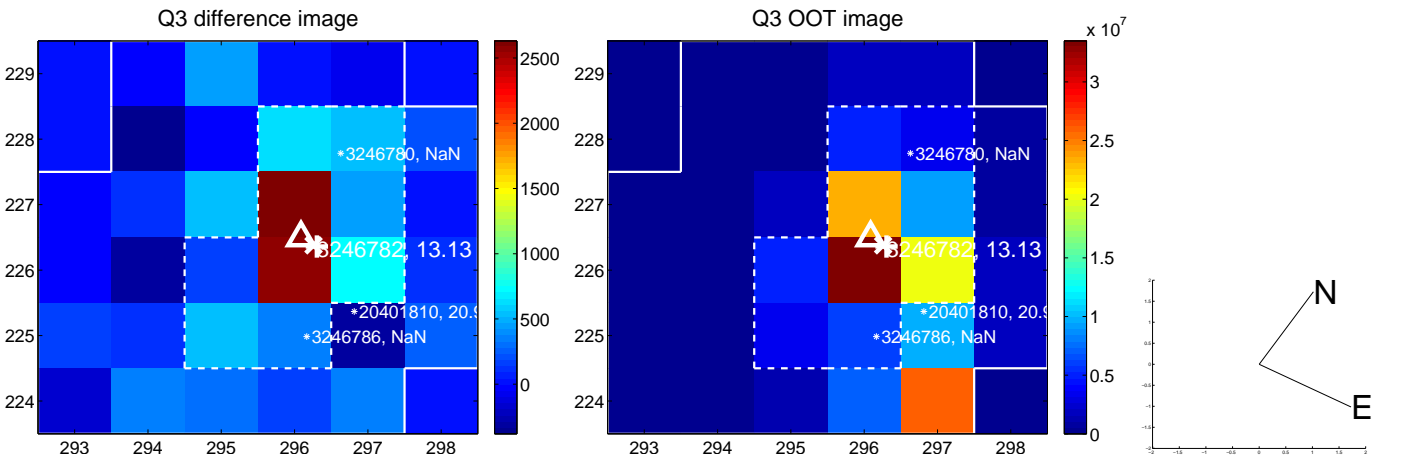
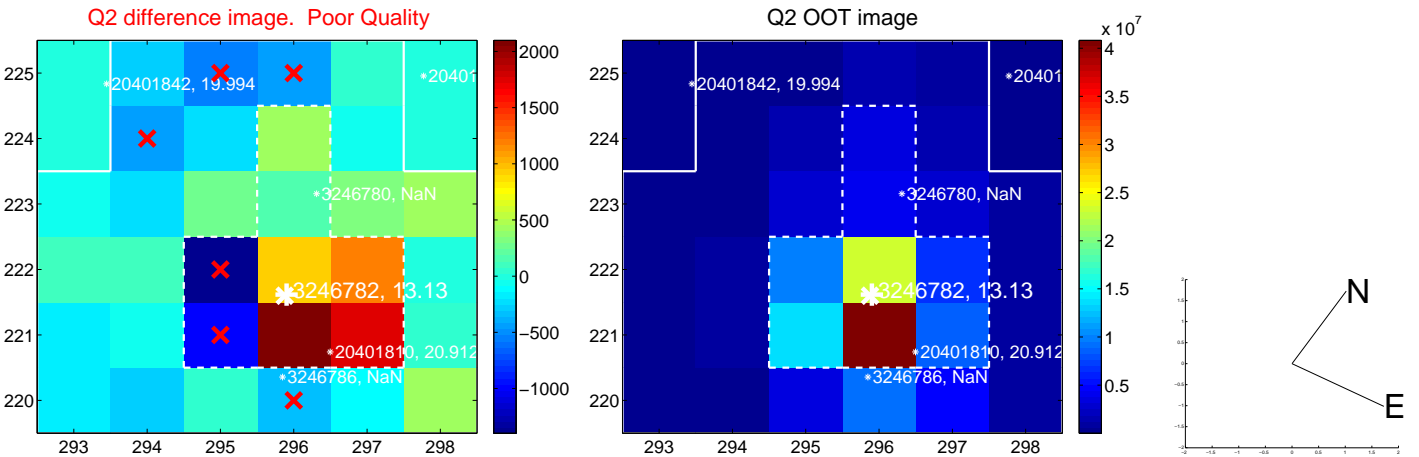
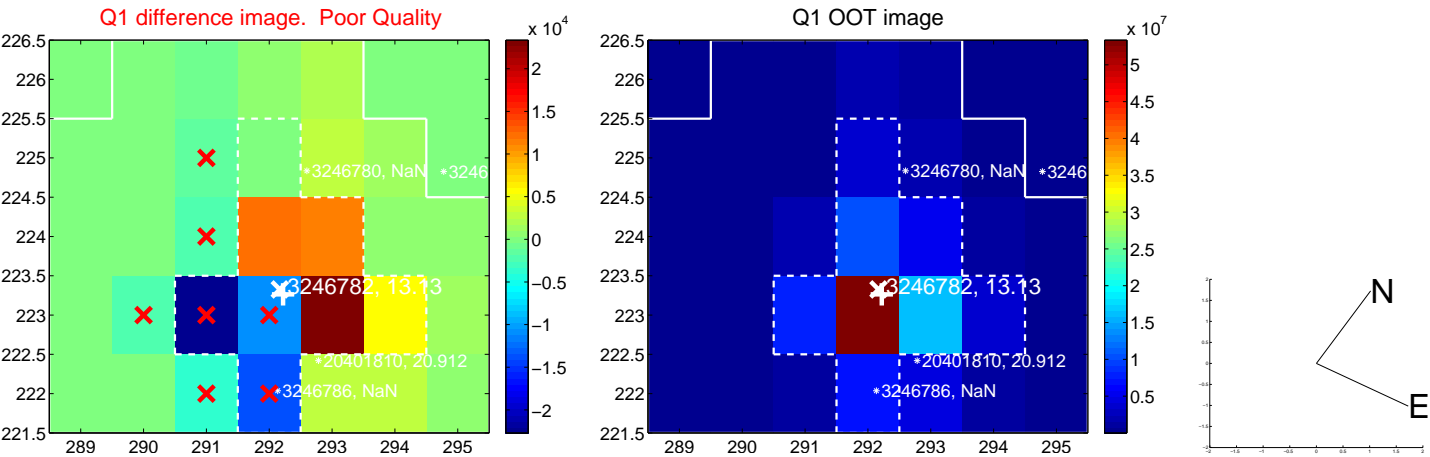
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.653 ± 0.659	0.99	-0.641 ± 0.726	0.122 ± 0.940
PRF-fit source offset from KIC position	0.431 ± 0.760	0.57	-0.423 ± 0.795	0.085 ± 0.821
photometric centroid source offset	0.33 ± 0.70	0.47	0.10 ± 0.70	-0.32 ± 0.70

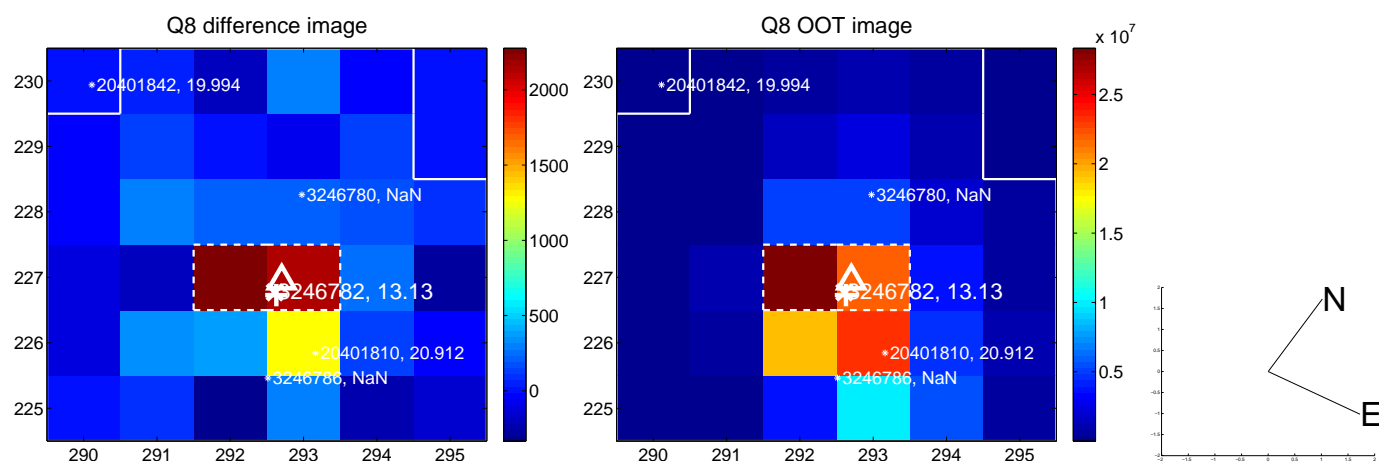
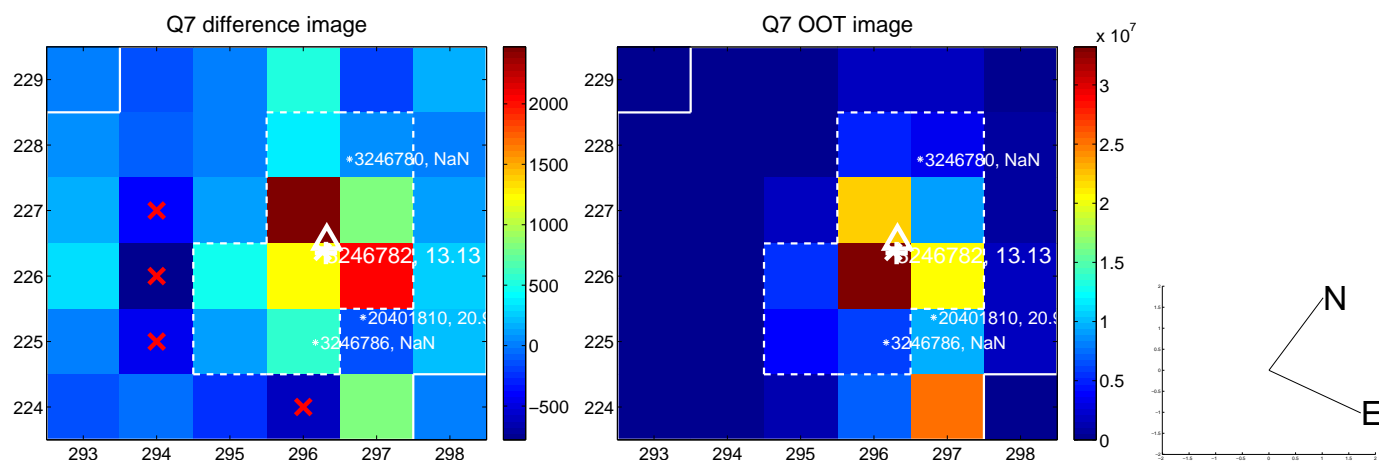
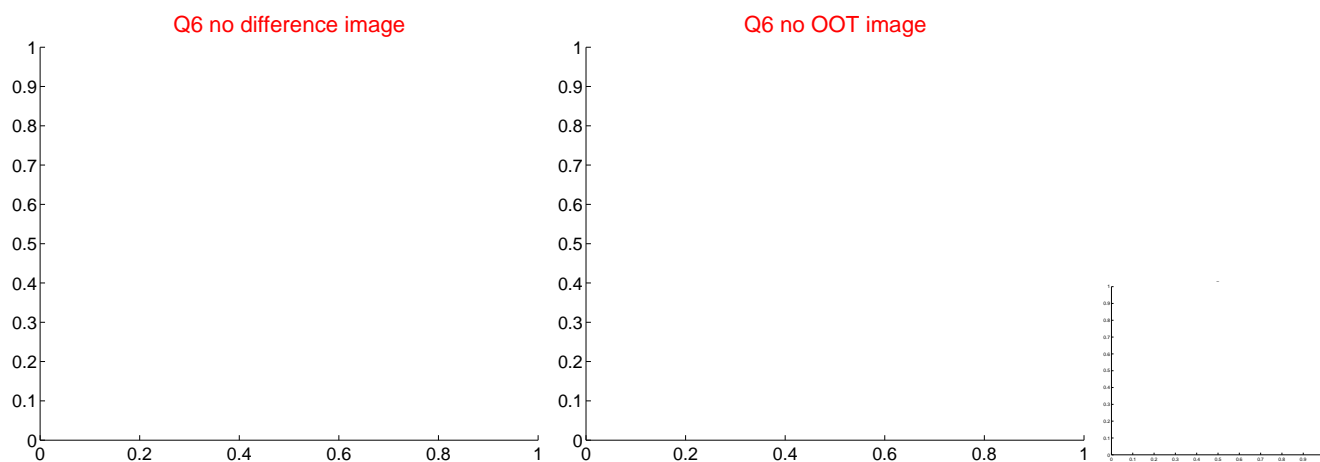
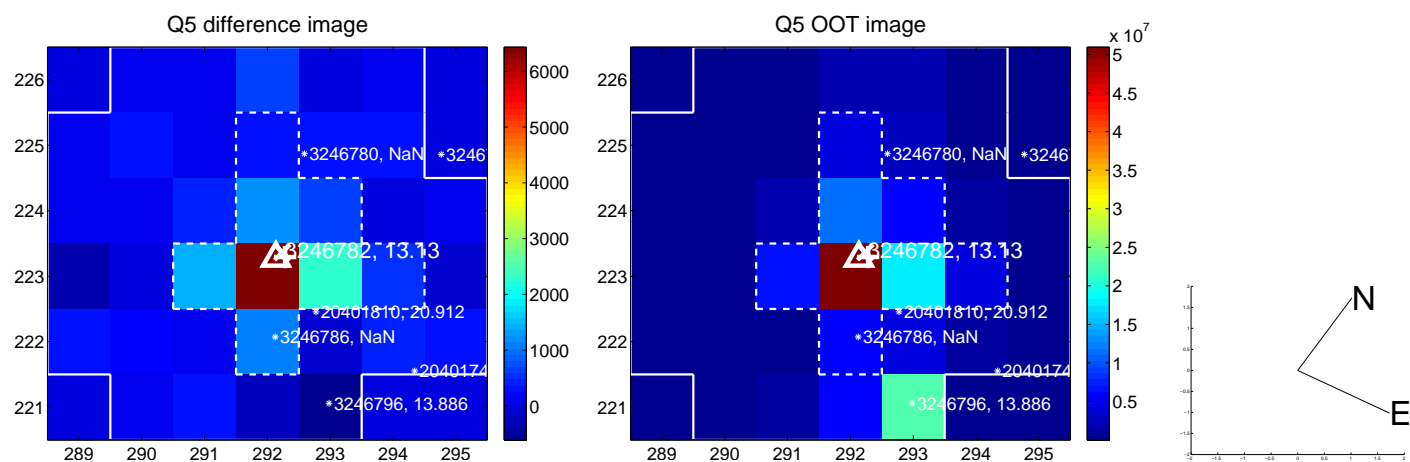


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

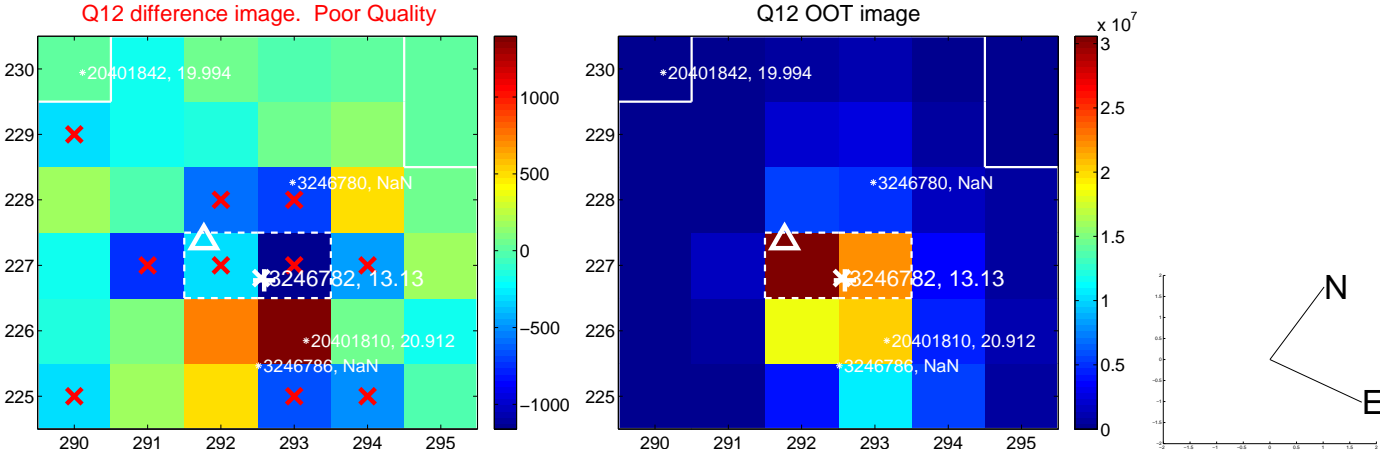
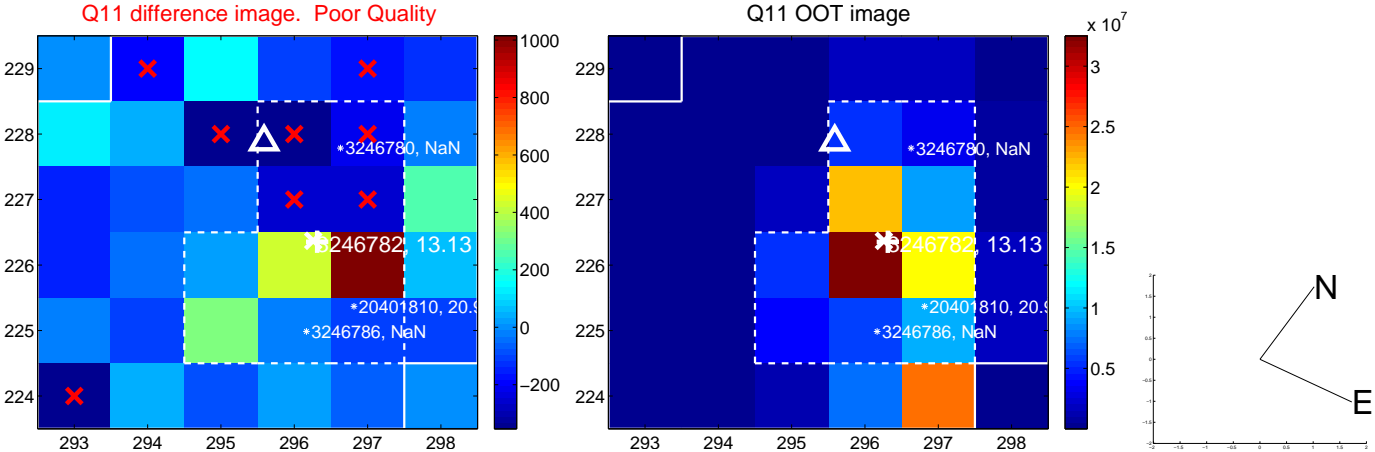
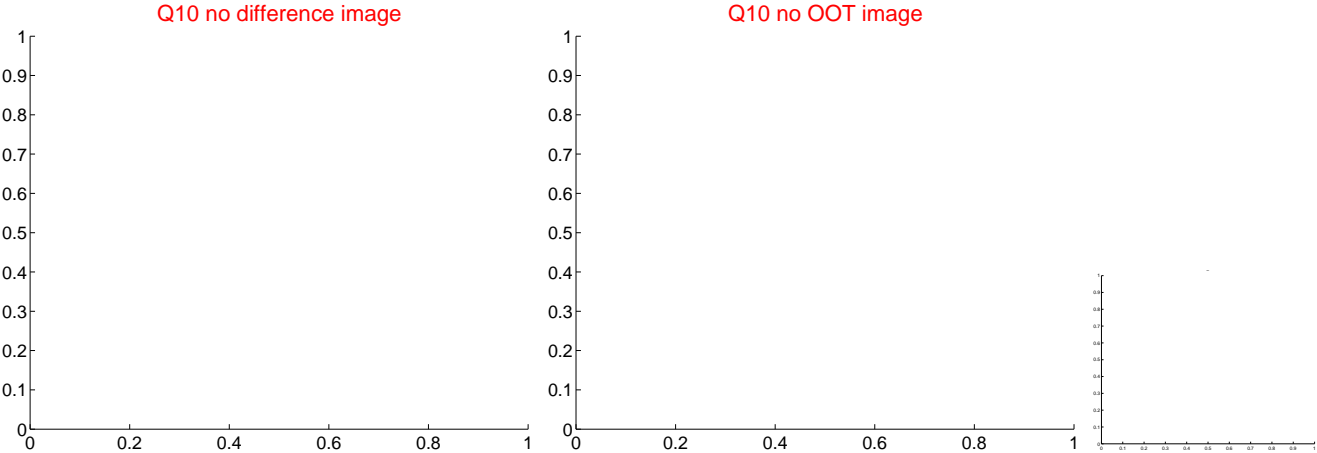
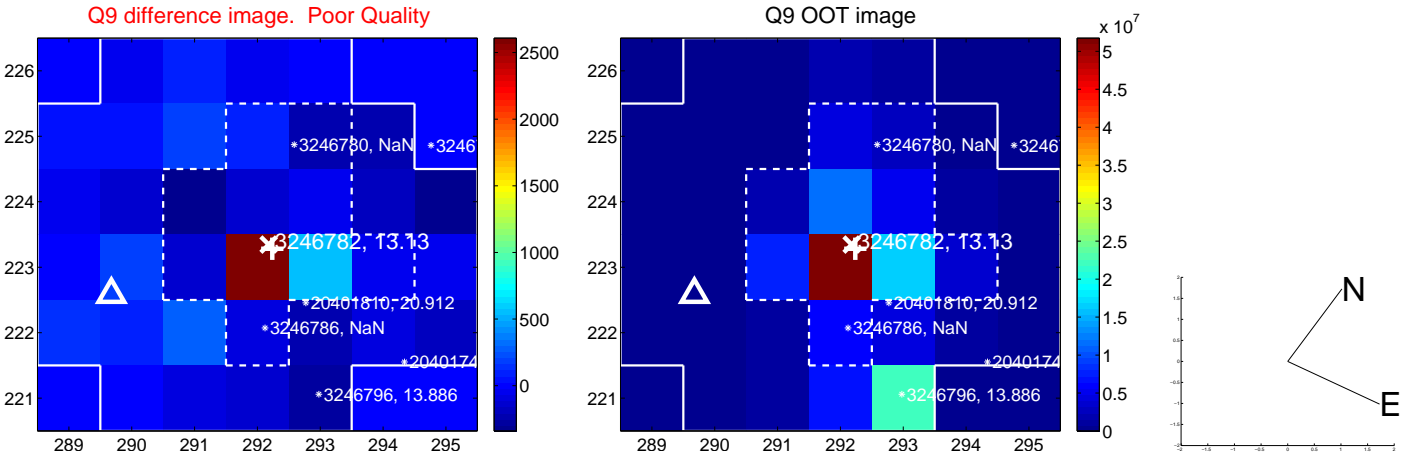
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



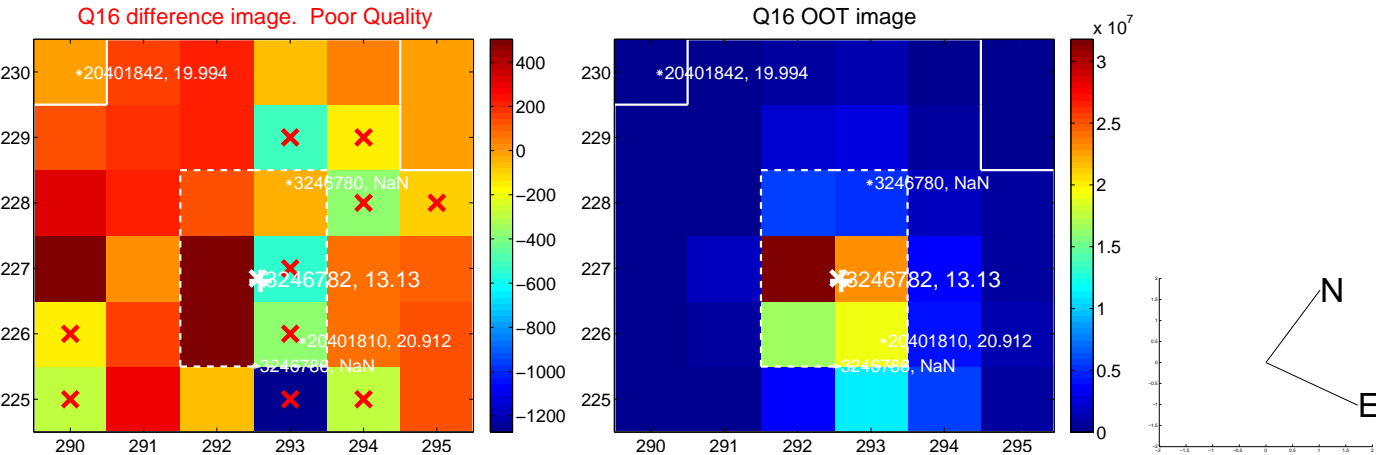
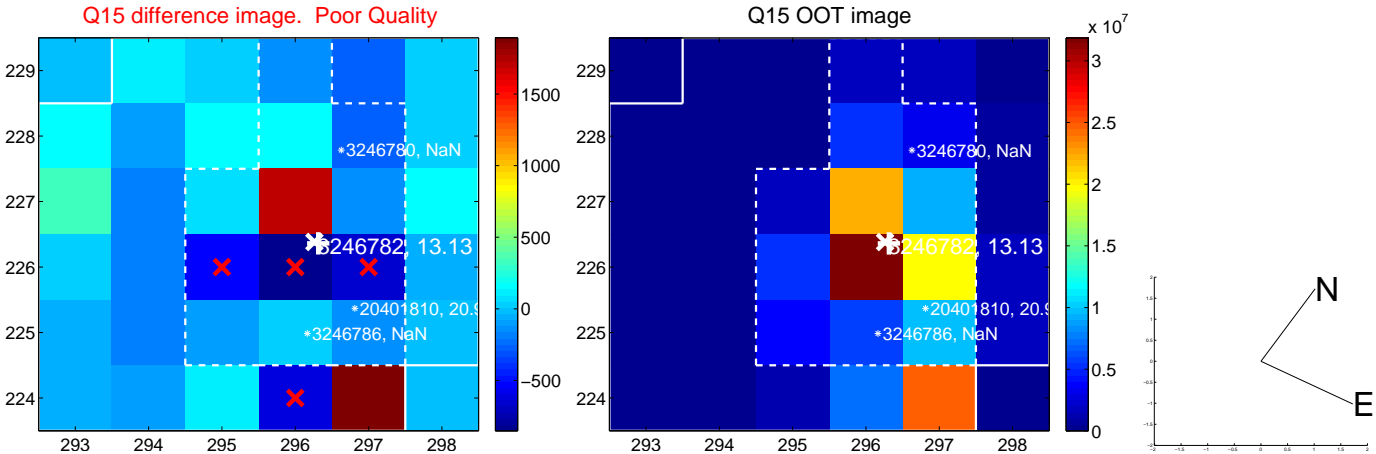
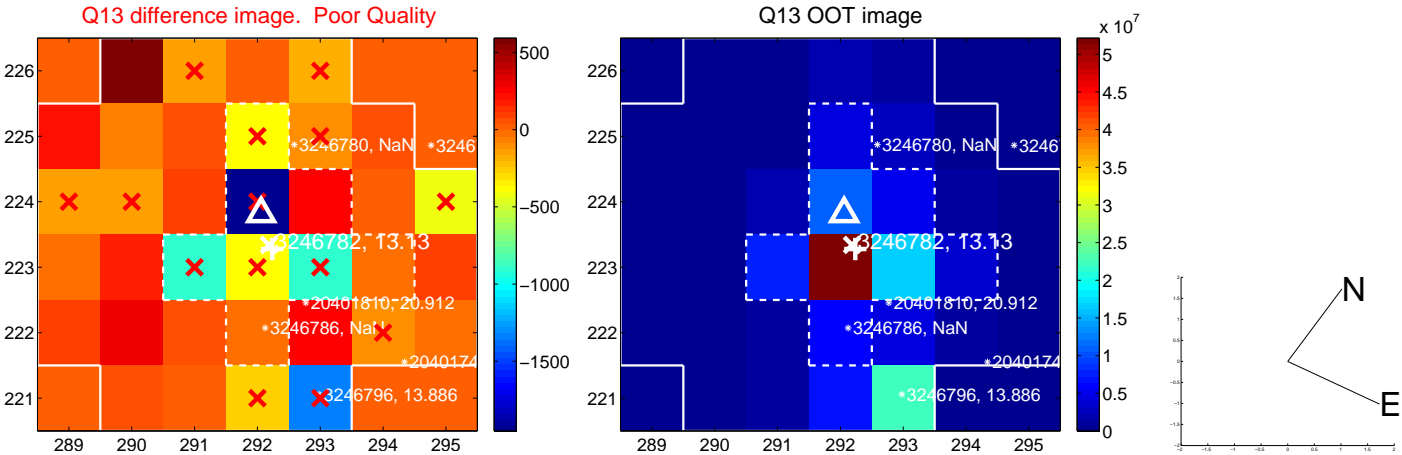
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



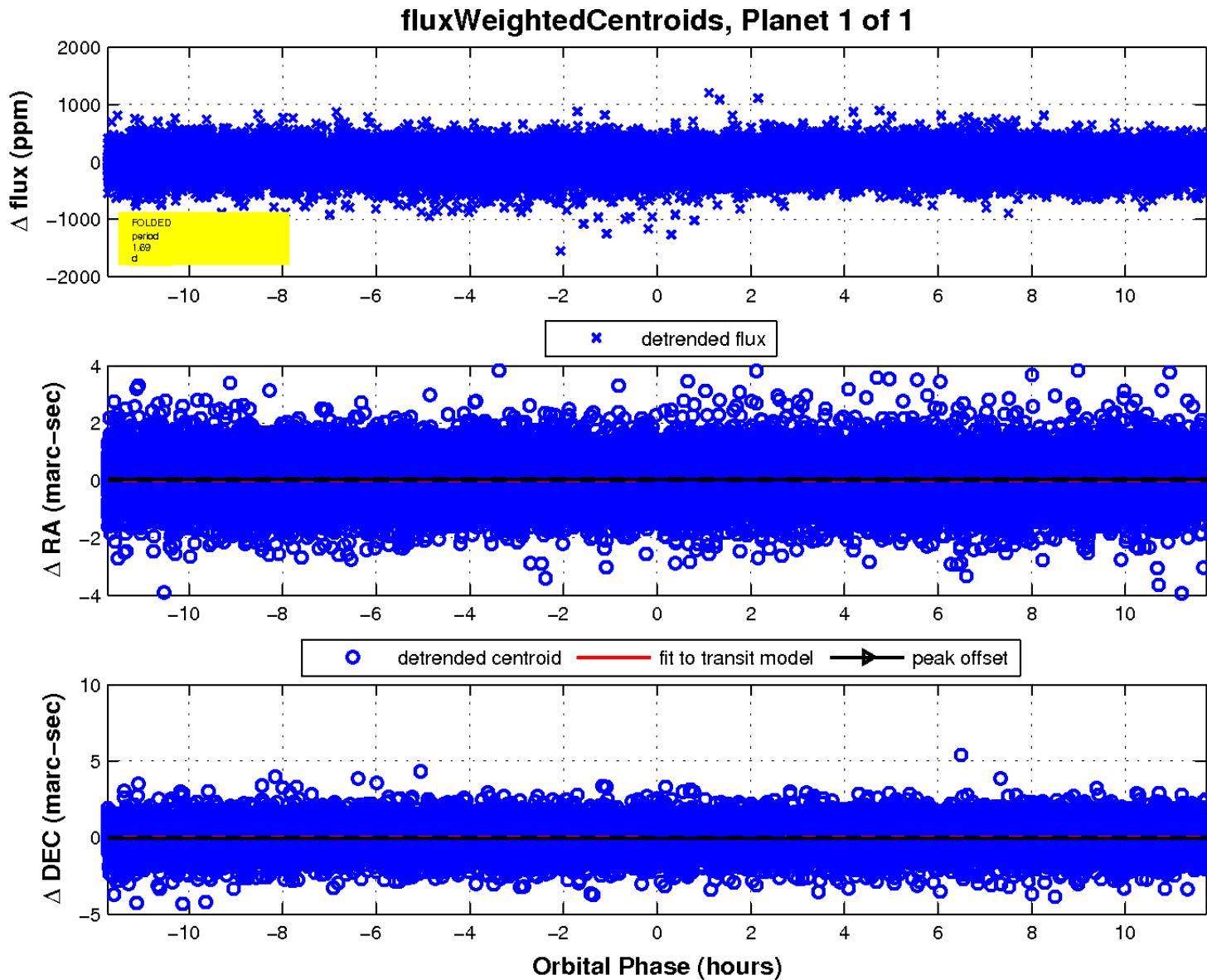
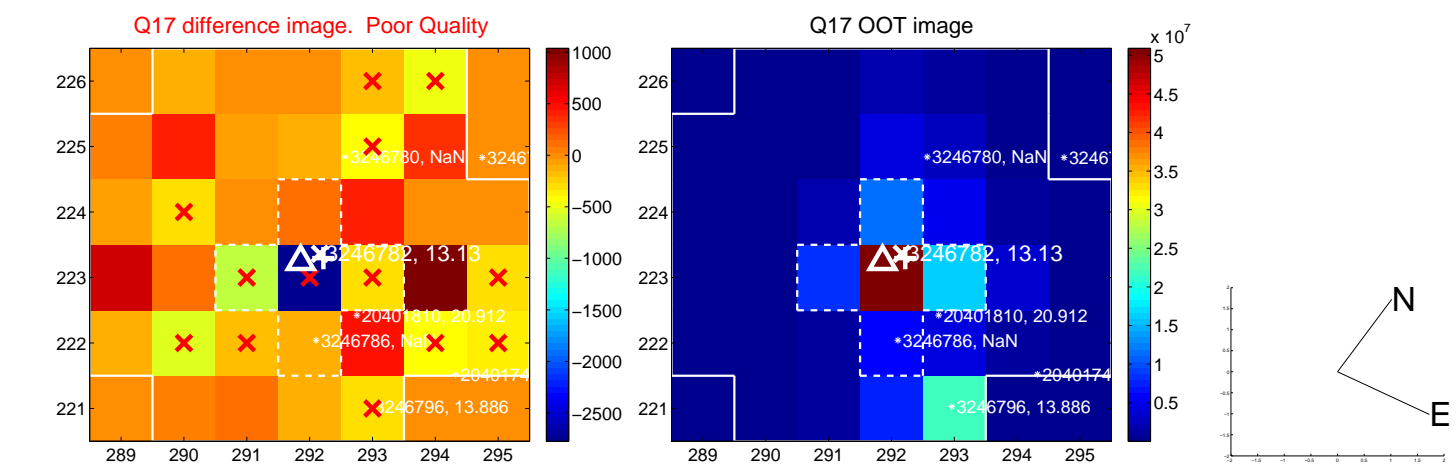
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

