

KIC 011356260

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})
011356260-01	OBS	1441.01	8.506989	134.642291	297.1	3.025	18.6	19.7	0.99	5822	1.99	155.62

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011356260-01	OBS	PC	0.99	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.

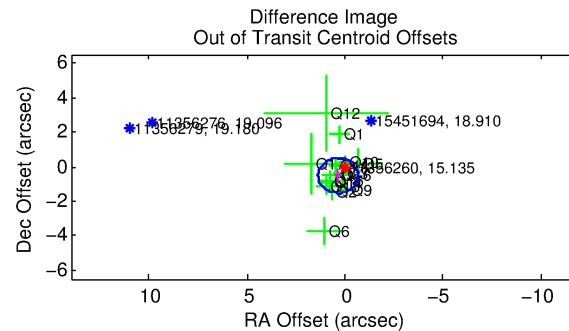
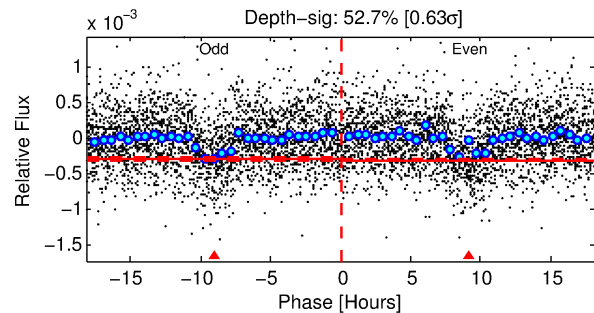
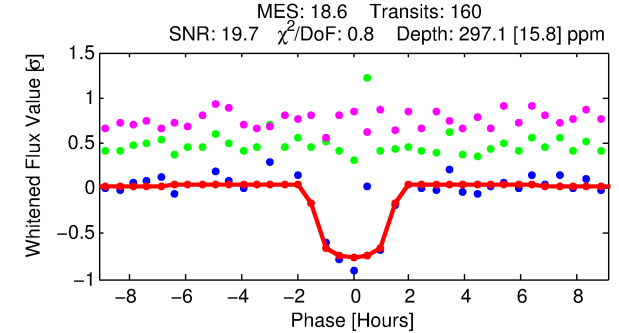
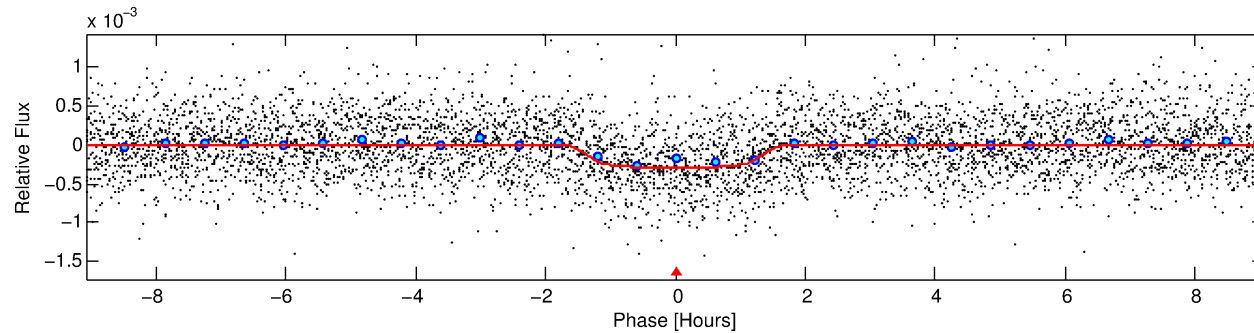
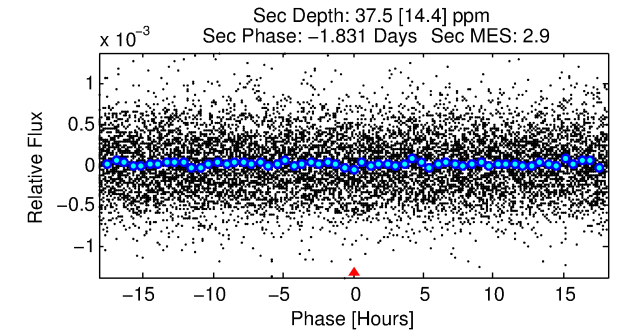
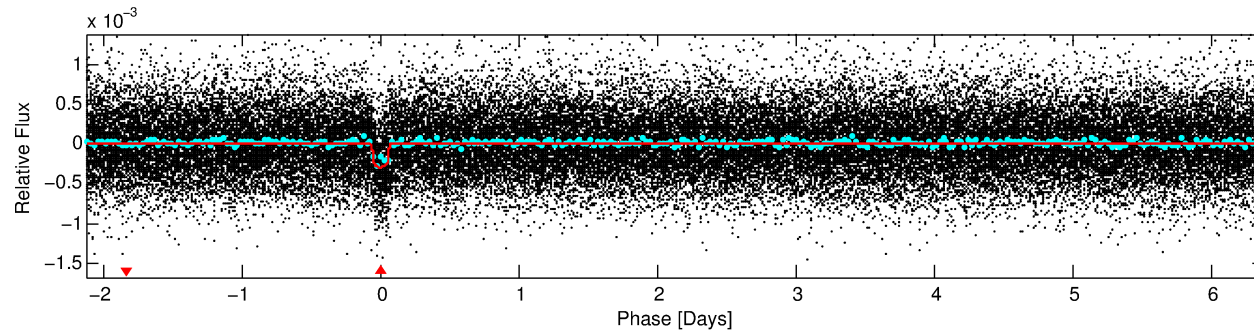
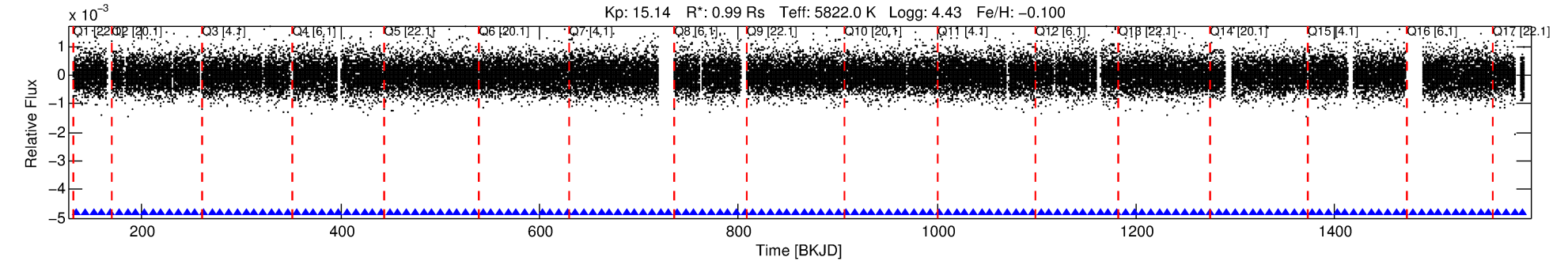
Ephemeris Match Information For 011356260-01

No Significant Match Found

DV One-Page Summary

KIC: 11356260 Candidate: 1 of 1 Period: 8.507 d

KOI: K01441.01 Corr: 0.989



DV Fit Results:

Period = 8.50699 [0.00003] d
Epoch = 134.6423 [0.0031] BKJD
Rp/R* = 0.0185 [0.0049]
a/R* = 10.92 [13.68]
b = 0.88 [0.32]
Seff = 155.62 [57.29]
Teff = 901 [83] K
Rp = 1.99 [0.76] Re
a = 0.0802 [0.0189] AU
Ag = 33.63 [24.80] [1.32σ]
Teffp = 3353 [558] K [4.35σ]

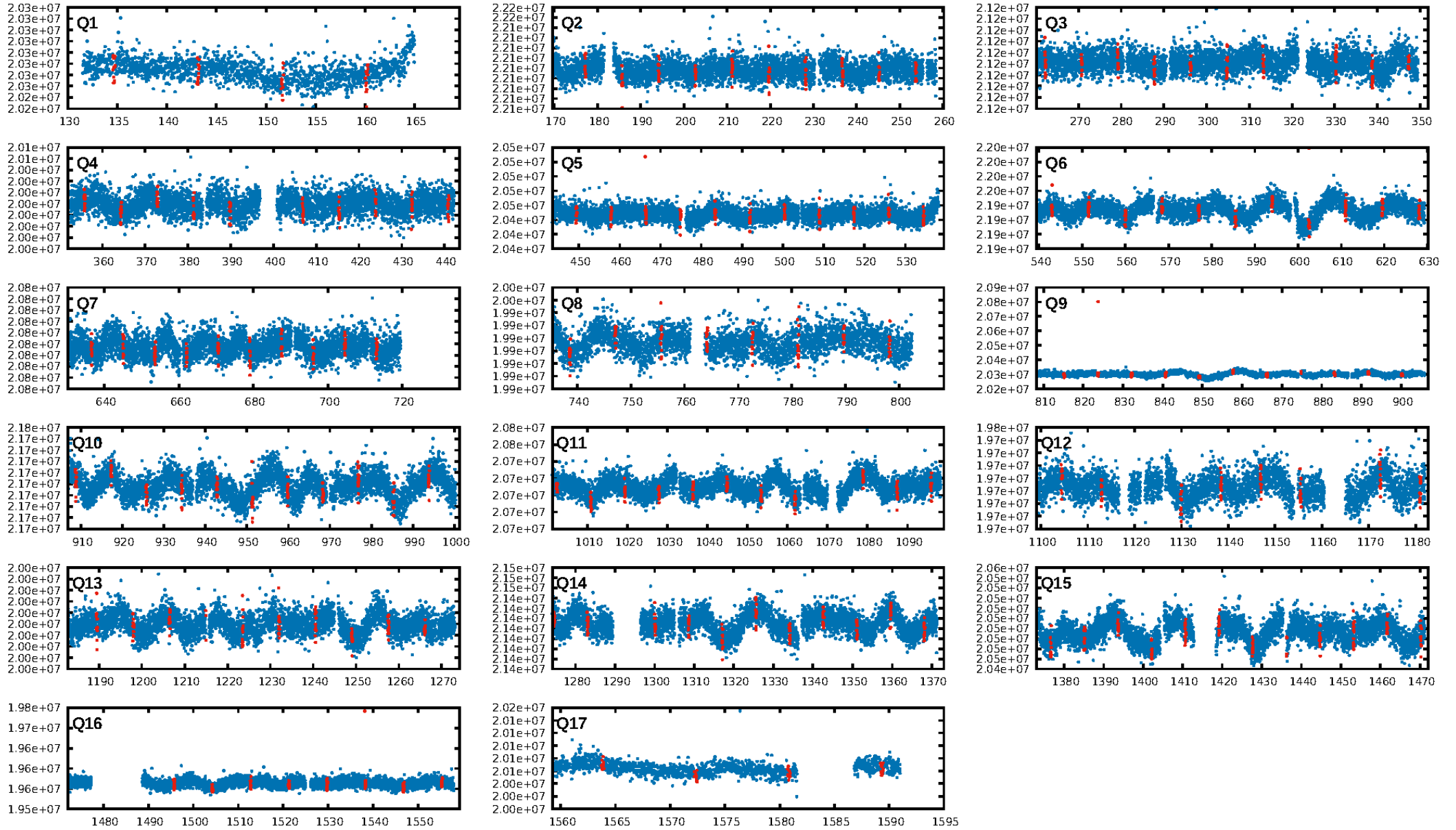
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.50e-76
RollingBand-fgt: 1.00 [152/152]
GhostDiagnostic-chr: 4.786
Centroid-sig: 0.7%
Centroid-so: 1.338 arcsec [1.97σ]
OotOffset-rm: 0.621 arcsec [1.83σ]
KicOffset-rm: 0.649 arcsec [1.83σ]
OotOffset-st: 4/3/3/5 [15]
KicOffset-st: 4/3/3/5 [15]
DiffImageQuality-fgm: 0.73 [11/15]
DiffImageOverlap-fno: 1.00 [17/17]

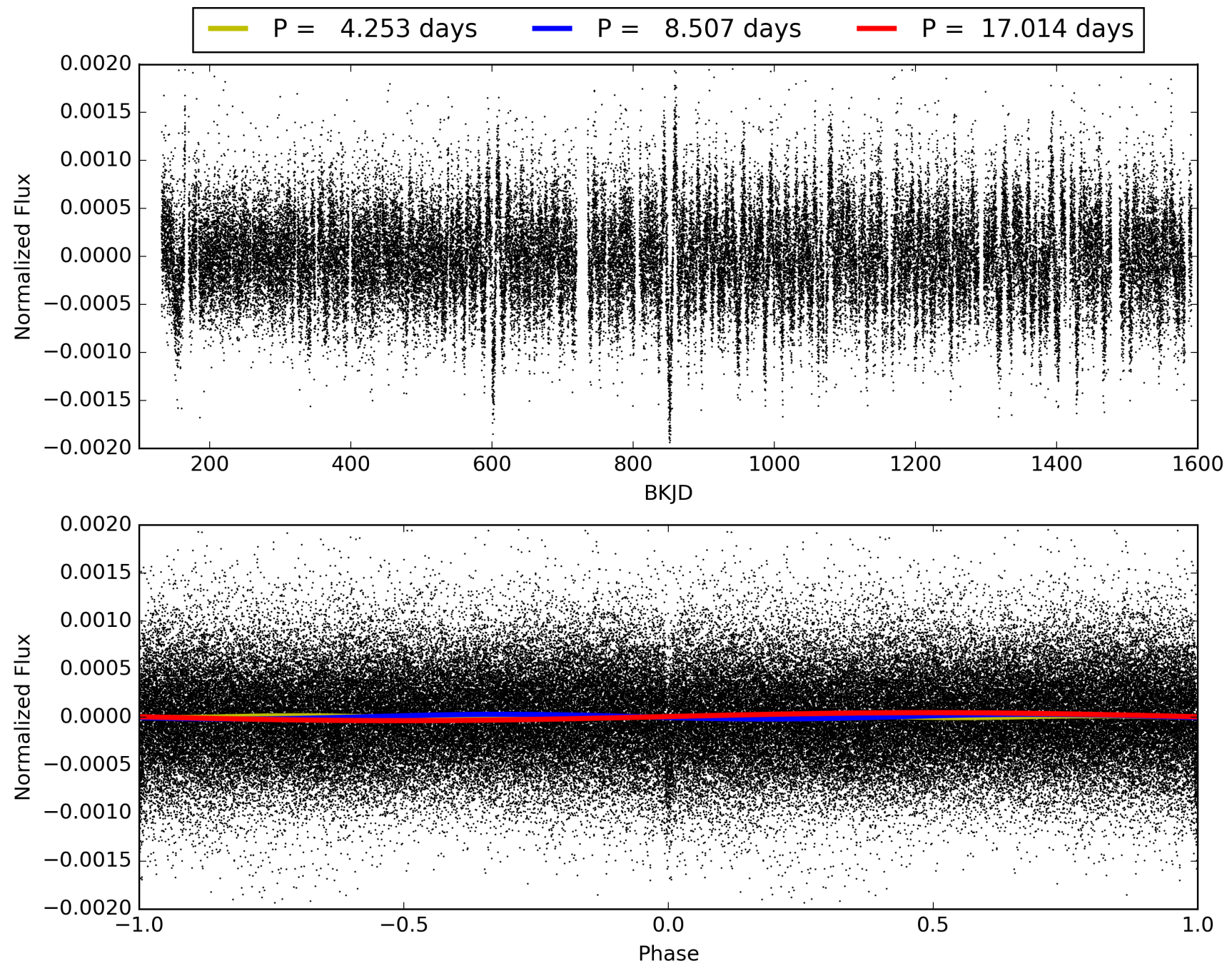
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:17:55 Z

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

TCE 011356260-01, PDC Light Curves

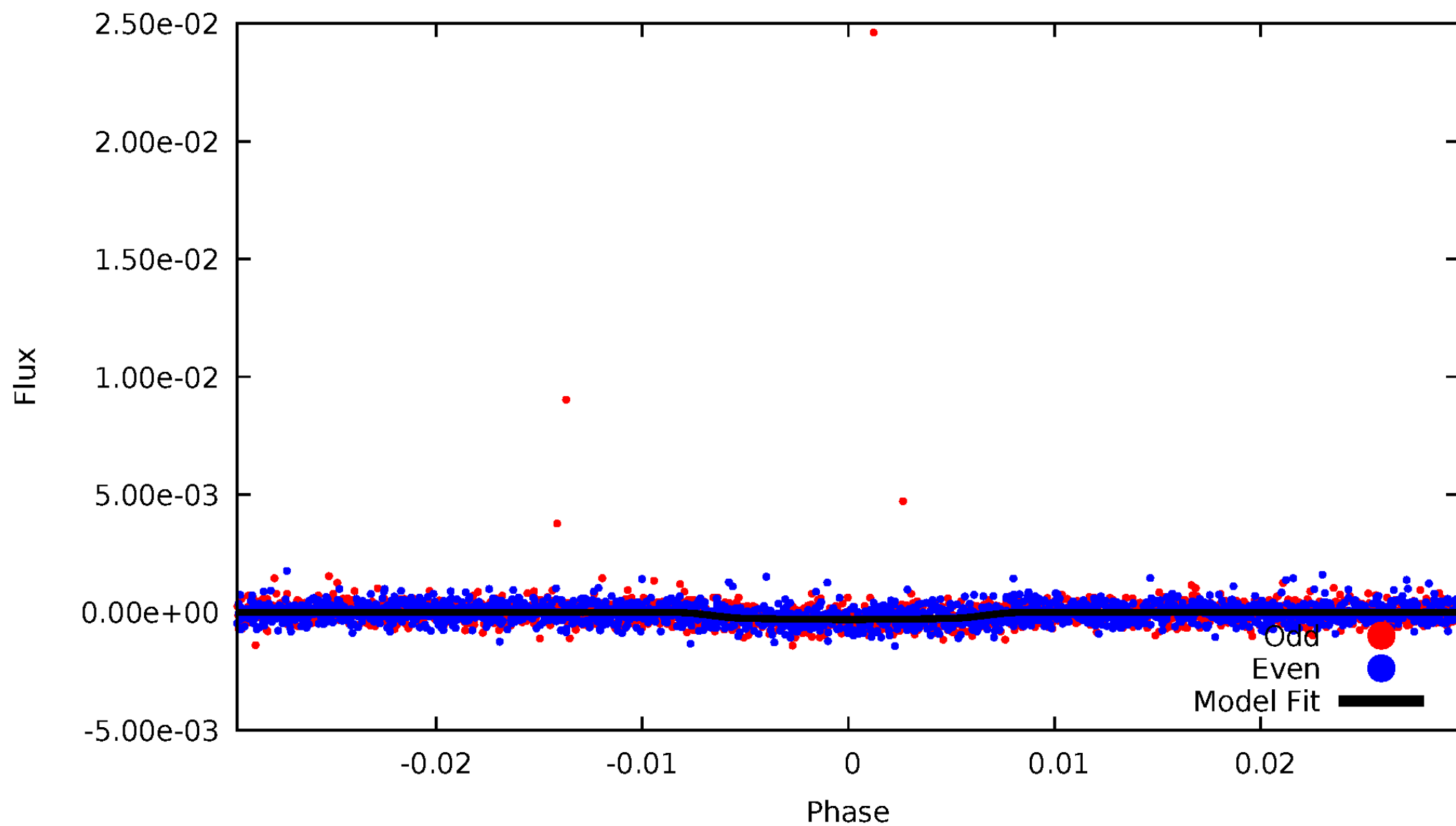


TCE 011356260-01



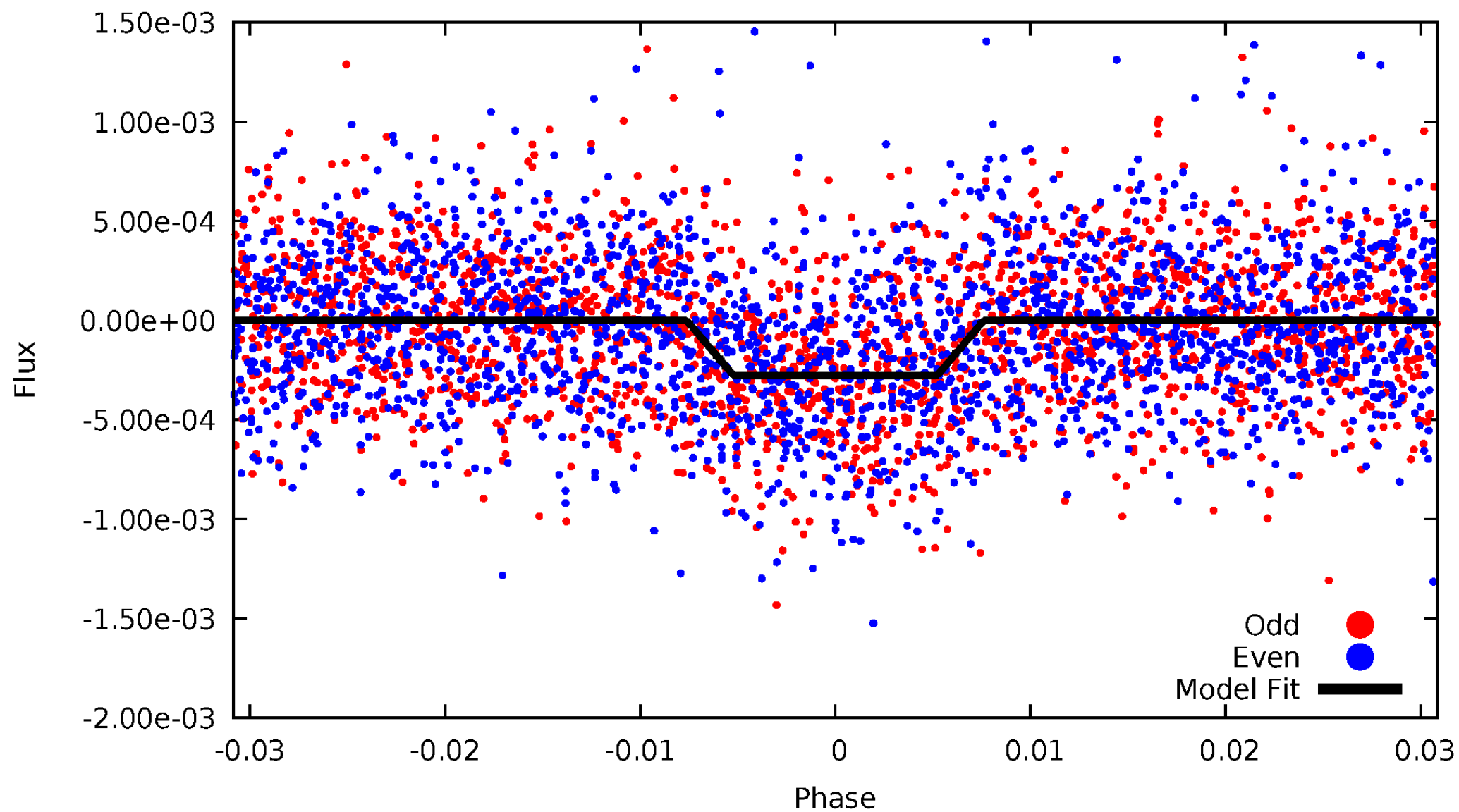
DV Odd/Even

TCE 011356260-01



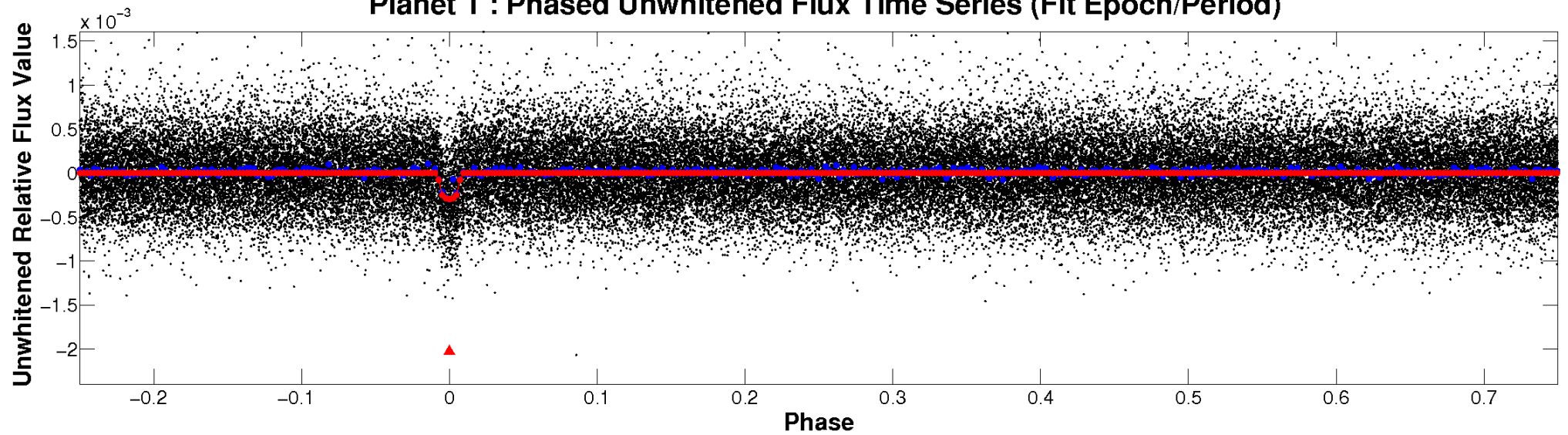
ALT Odd/Even

TCE 011356260-01

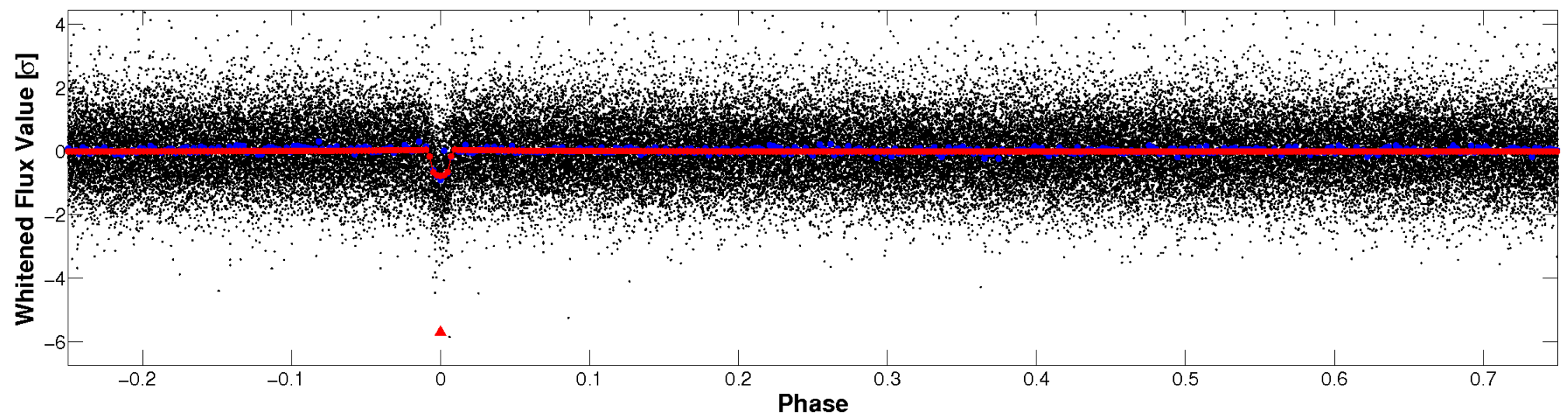


Non-Whitened Vs. Whitened Light Curve

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

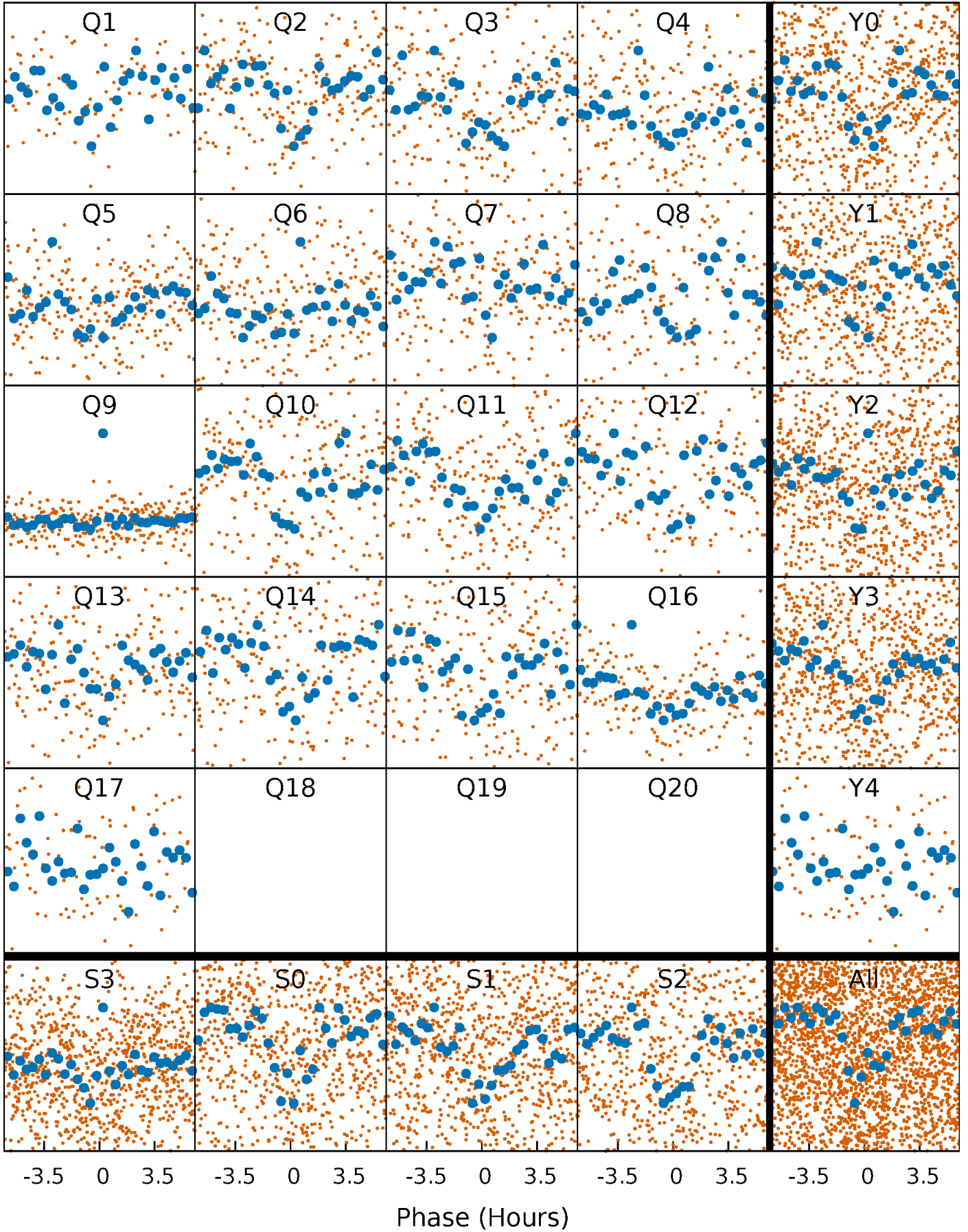


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



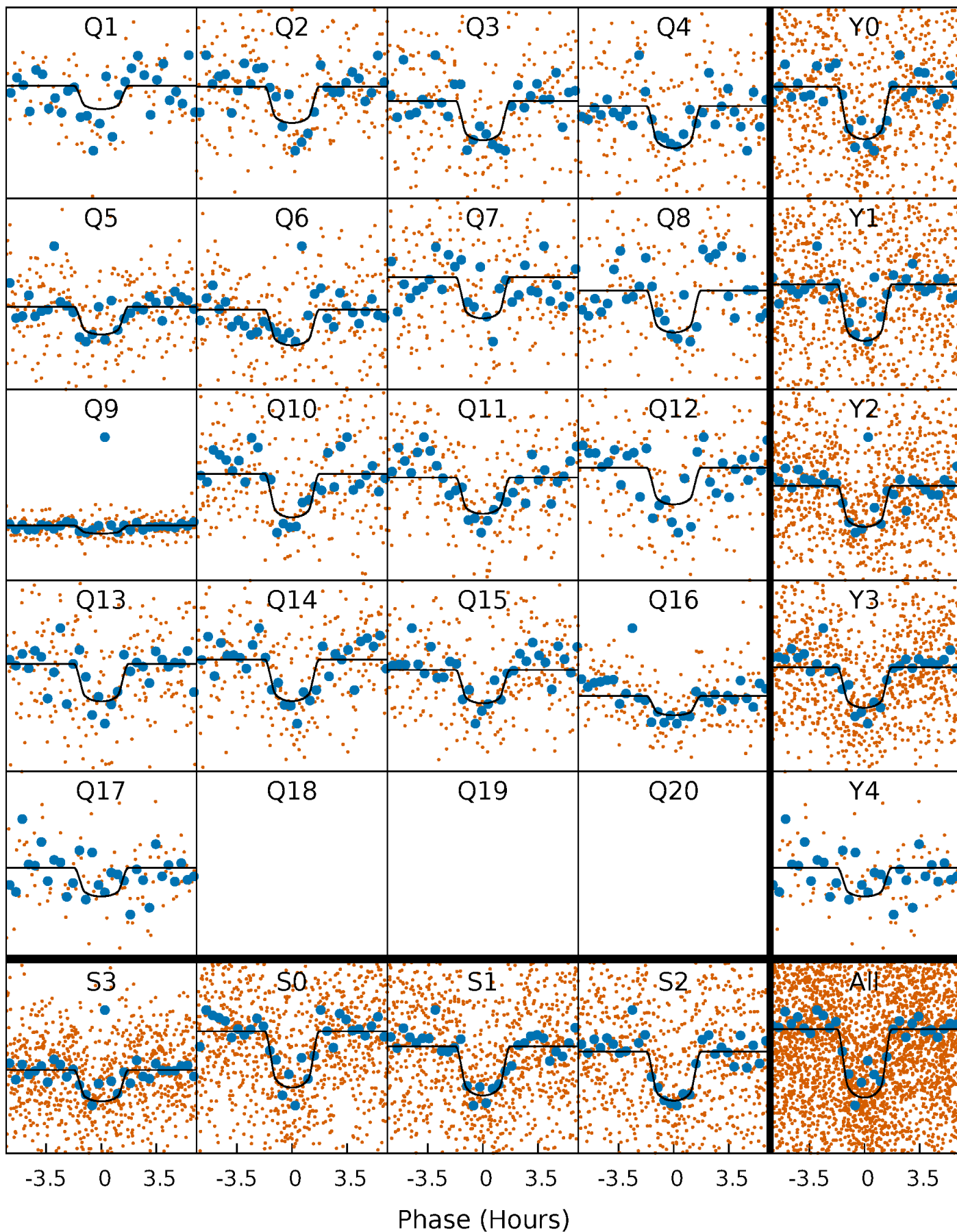
PDC Quarter-Phased Transit Curves

TCE 011356260-01 P= 8.506989 Days $T_0=134.642291$ (BKJD)



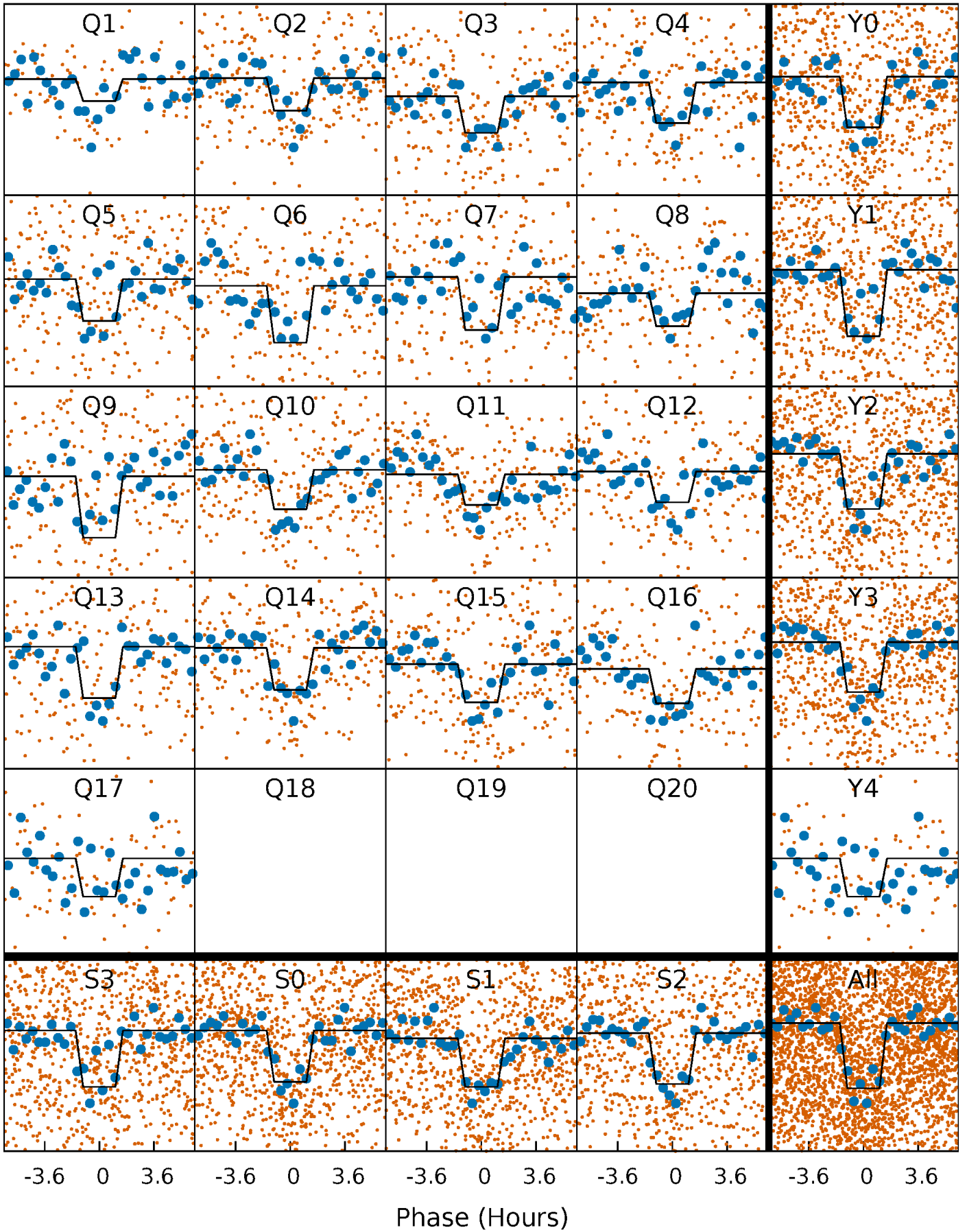
DV Quarter-Phased Transit Curves

TCE 011356260-01 P= 8.506989 Days $T_0=134.642291$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

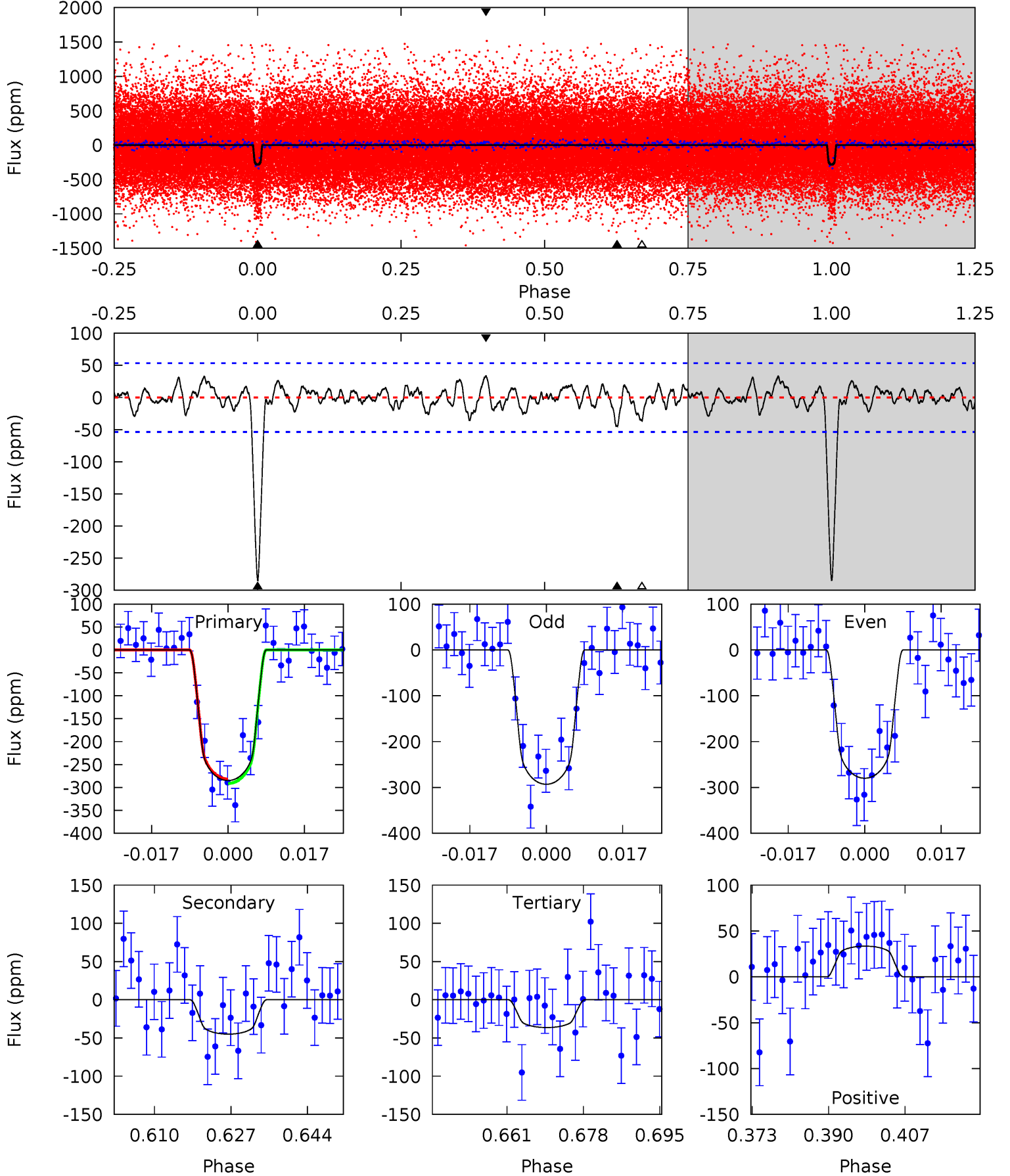
TCE 011356260-01 P= 8.506979 Days $T_0=134.644948$ (BKJD)



DV Model-Shift Uniqueness Test

011356260-01, P = 8.506989 Days, E = 126.135302 Days

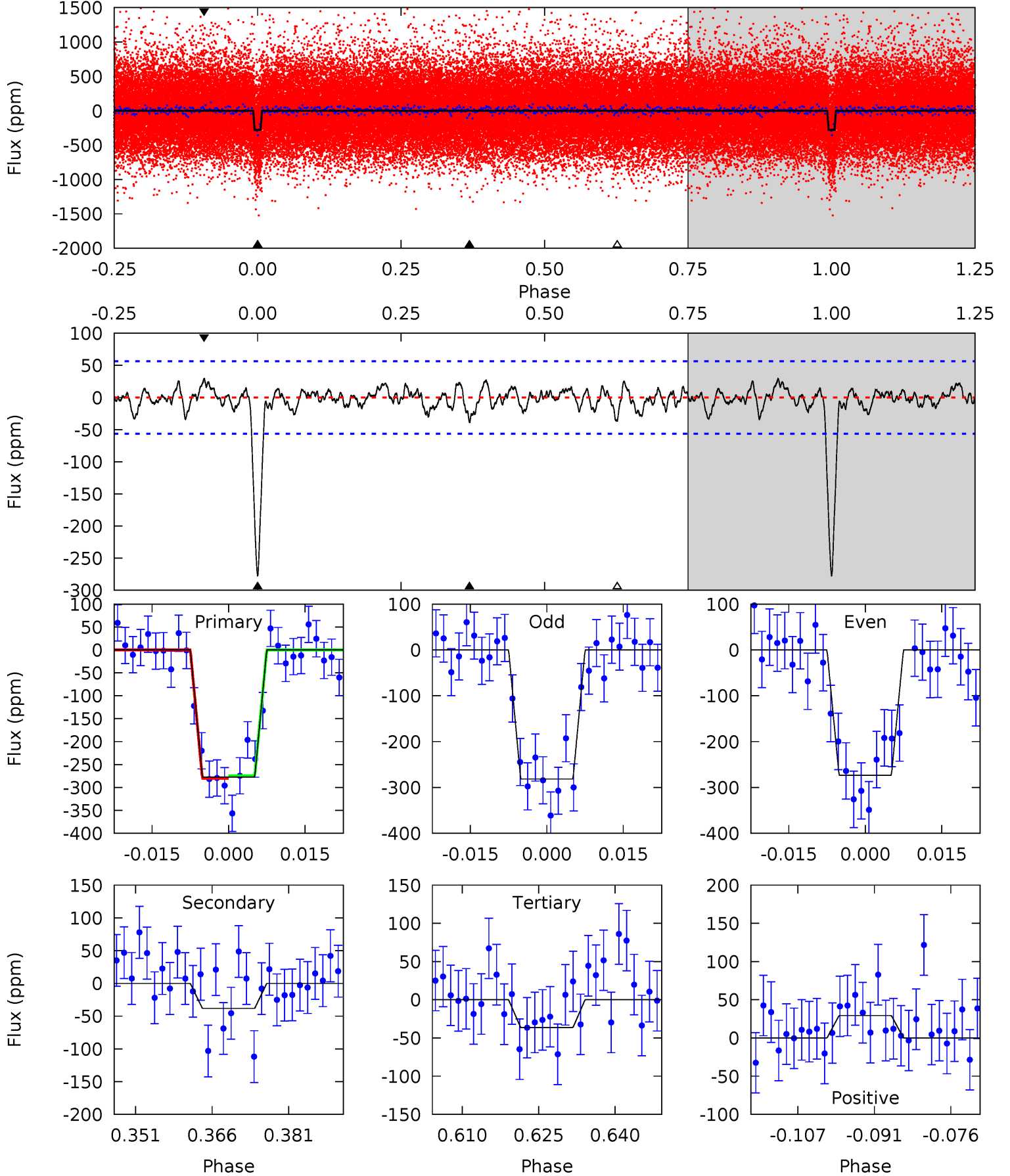
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.2	4.14	3.35	3.08	4.92	2.39	1.21	22.9	23.2	0.80	1.06	0.61	0.86	0.11	0.45



Alt Model-Shift Uniqueness Test

011356260-01, P = 8.506979 Days, E = 126.137969 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.3	3.34	3.18	2.57	4.94	2.43	1.07	21.1	21.7	0.17	0.78	0.35	0.98	0.10	0.24



Stellar Parameters For KIC 011356260

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5822^{+157}_{-192}	$4.428^{+0.087}_{-0.188}$	$-0.100^{+0.300}_{-0.300}$	$0.986^{+0.276}_{-0.148}$	$0.951^{+0.127}_{-0.104}$	$1.397^{+0.627}_{-0.695}$
	+3%/-3%	+2%/-4%	+300%/-300%	+28%/-15%	+13%/-11%	+45%/-50%
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 011356260-01 / KOI 1441.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-45 ± 11	$2.03^{+0.60}_{-0.57}$	1278^{+89}_{-69}	3865^{+499}_{-345}	38^{+37}_{-17}
Alt.	-38 ± 11	$1.85^{+0.63}_{-0.52}$	1276^{+91}_{-65}	3883^{+550}_{-400}	38^{+45}_{-19}

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 $A_{obs} \gg 1.0$

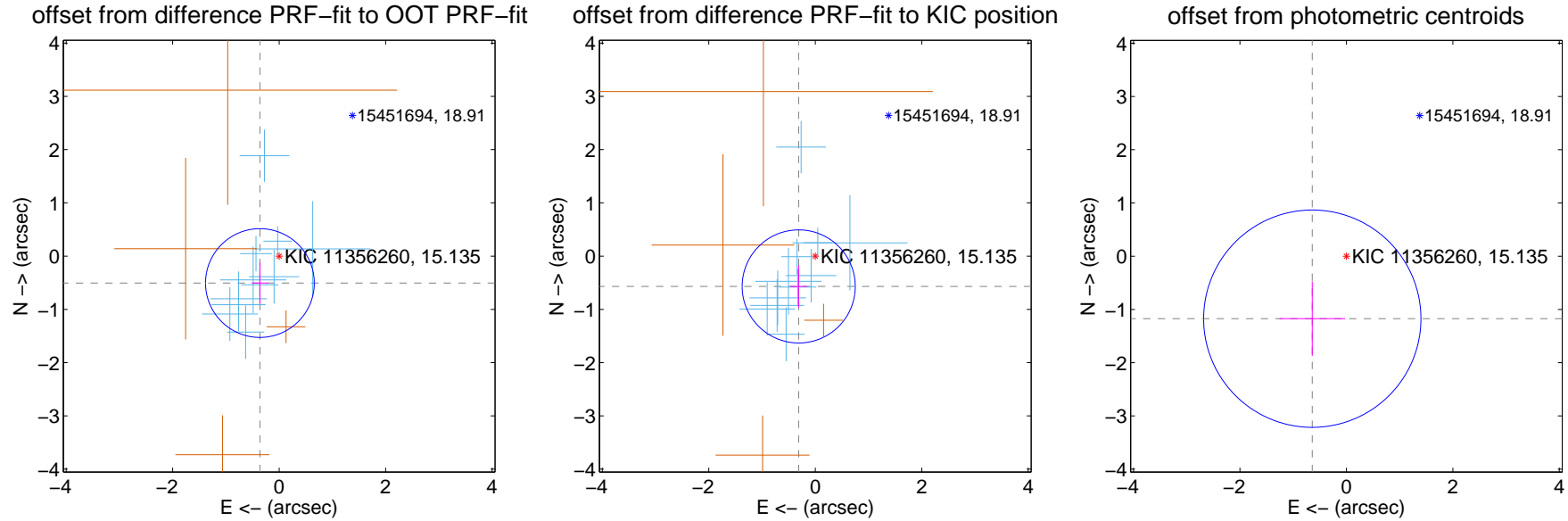
DV Centroid Data

Supplemental centroid analysis for 011356260-01. Kepler magnitude: 15.13. Transit SNR 19.72

There are 11 quarters with good PRF difference image offsets

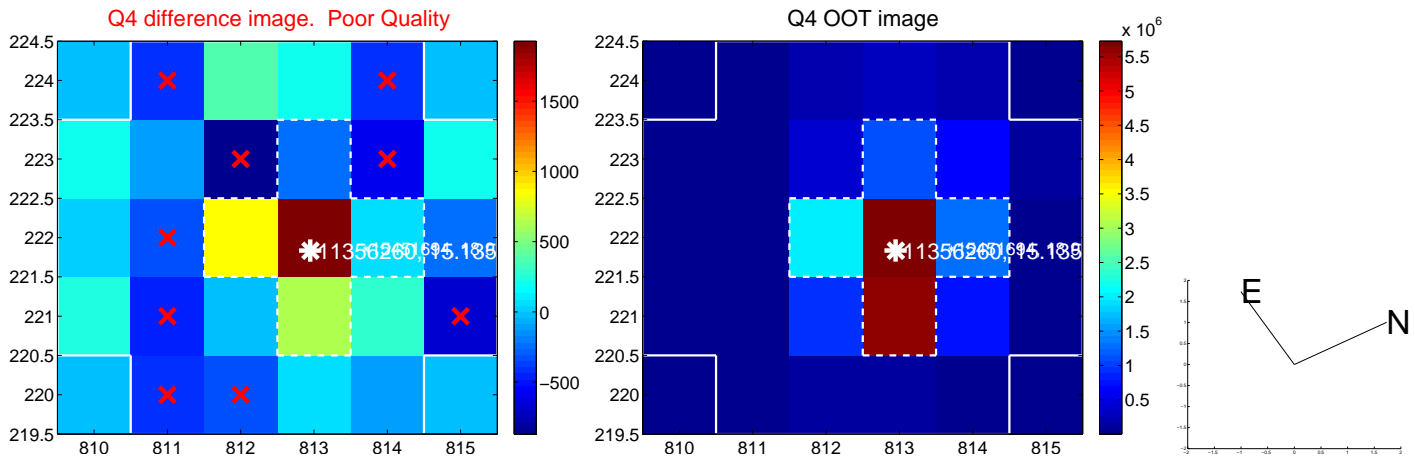
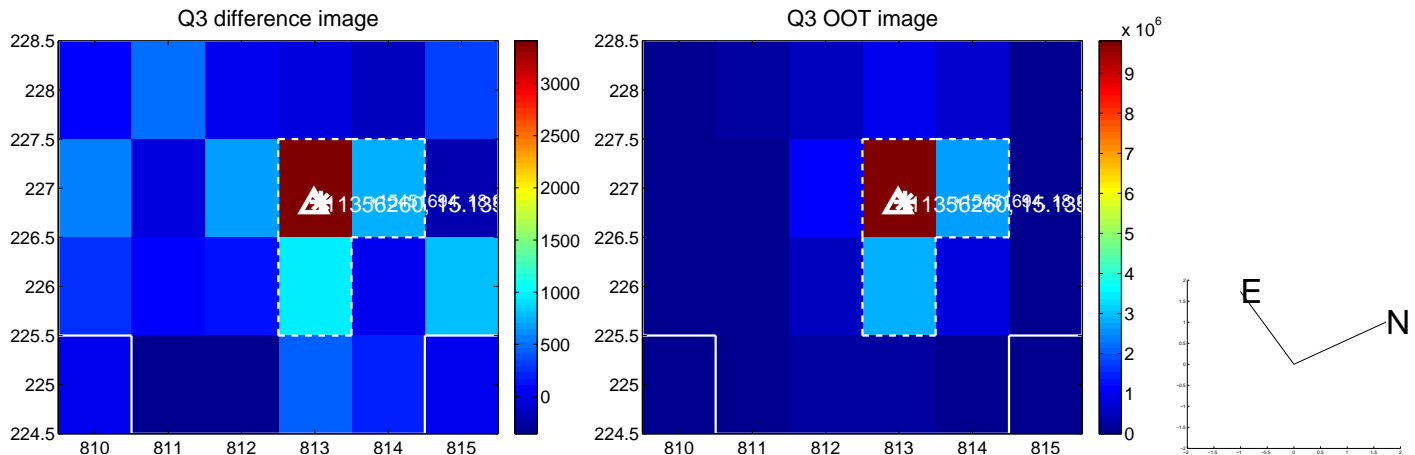
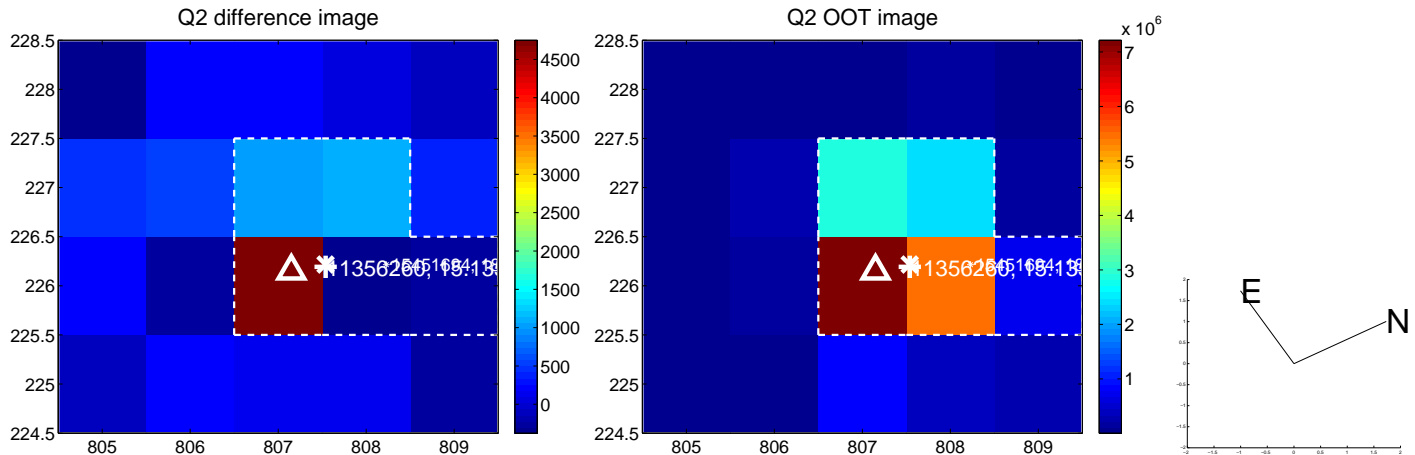
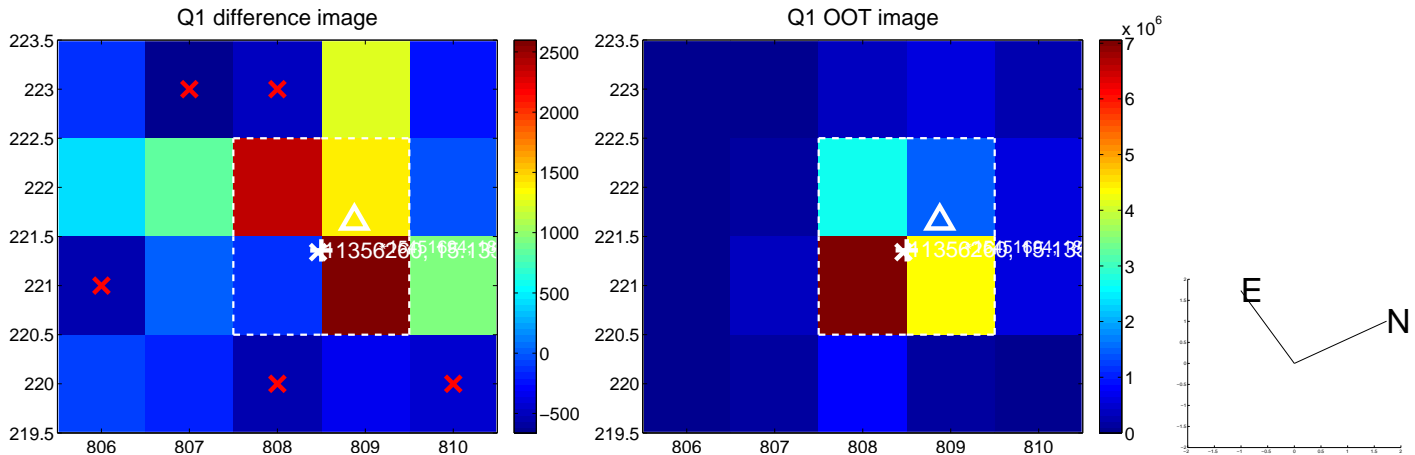
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.621 ± 0.340	1.83	0.361 ± 0.156	-0.506 ± 0.387
PRF-fit source offset from KIC position	0.649 ± 0.354	1.83	0.311 ± 0.160	-0.569 ± 0.397
photometric centroid source offset	1.34 ± 0.68	1.97	0.64 ± 0.62	-1.17 ± 0.70

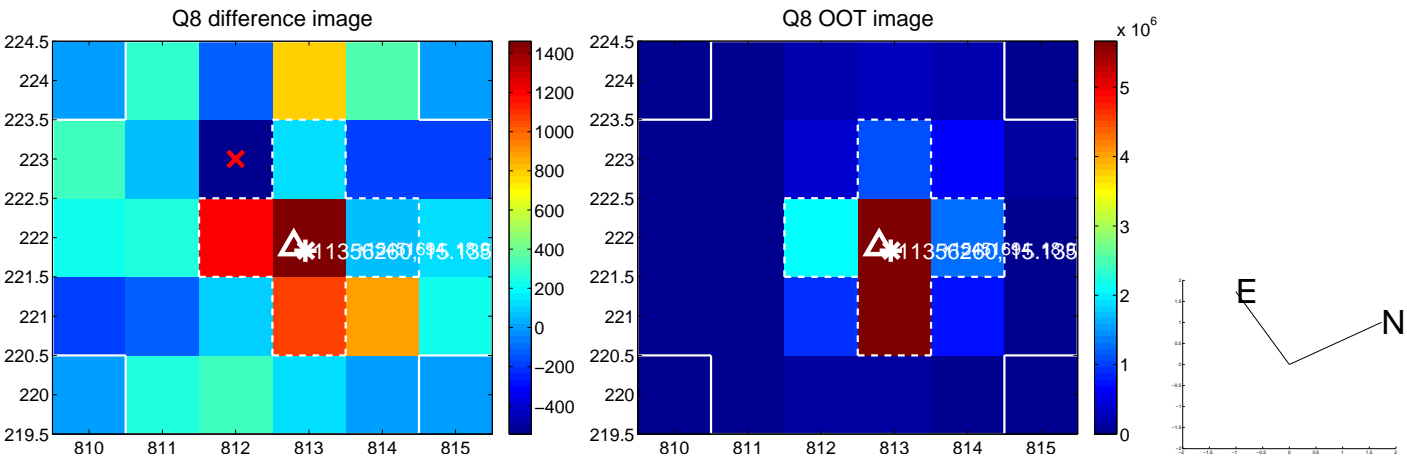
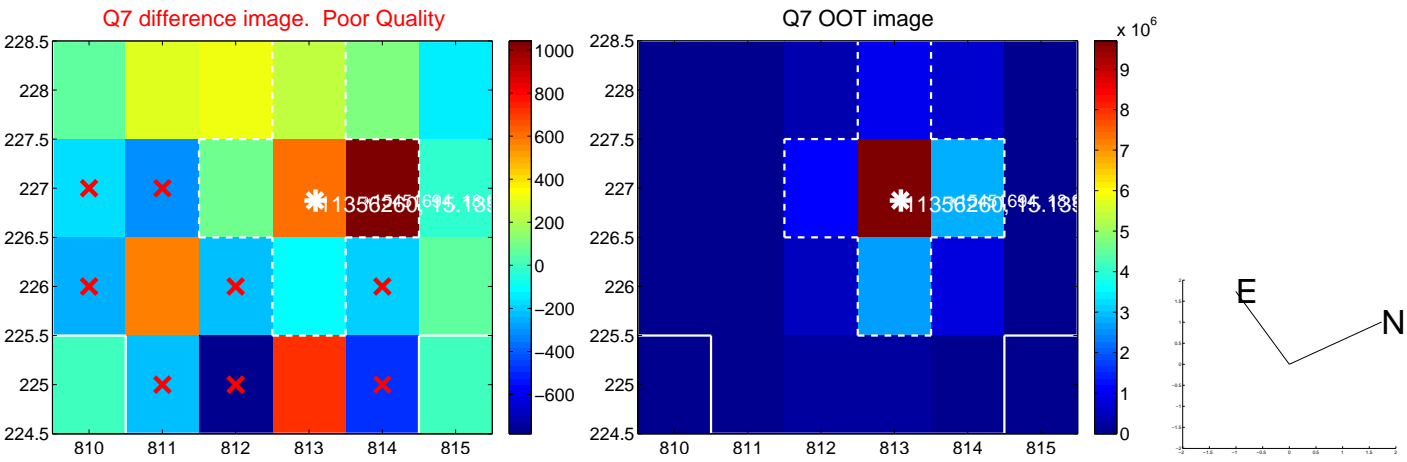
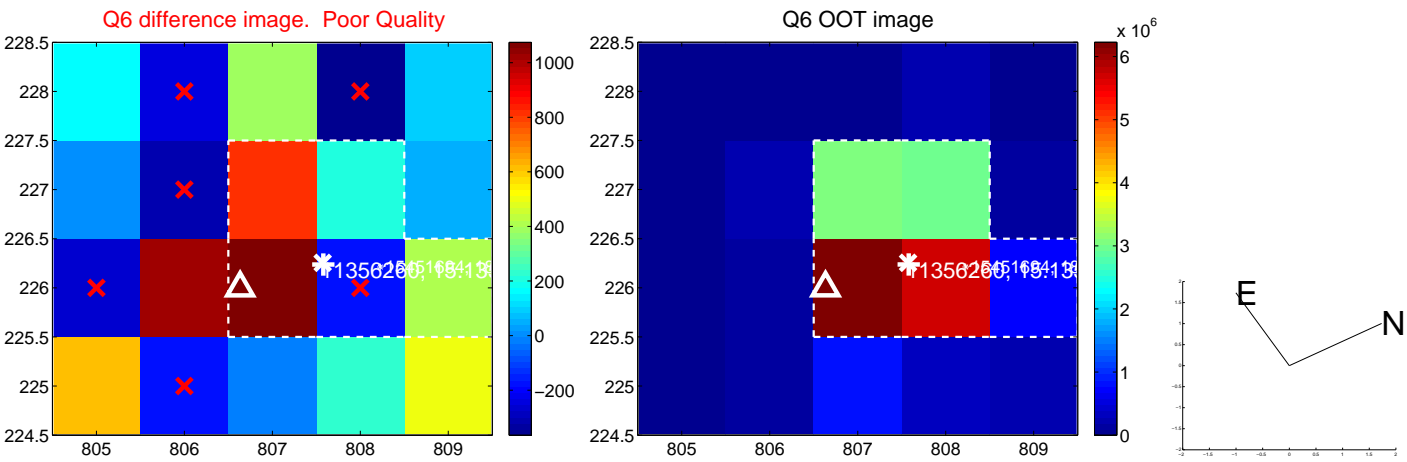
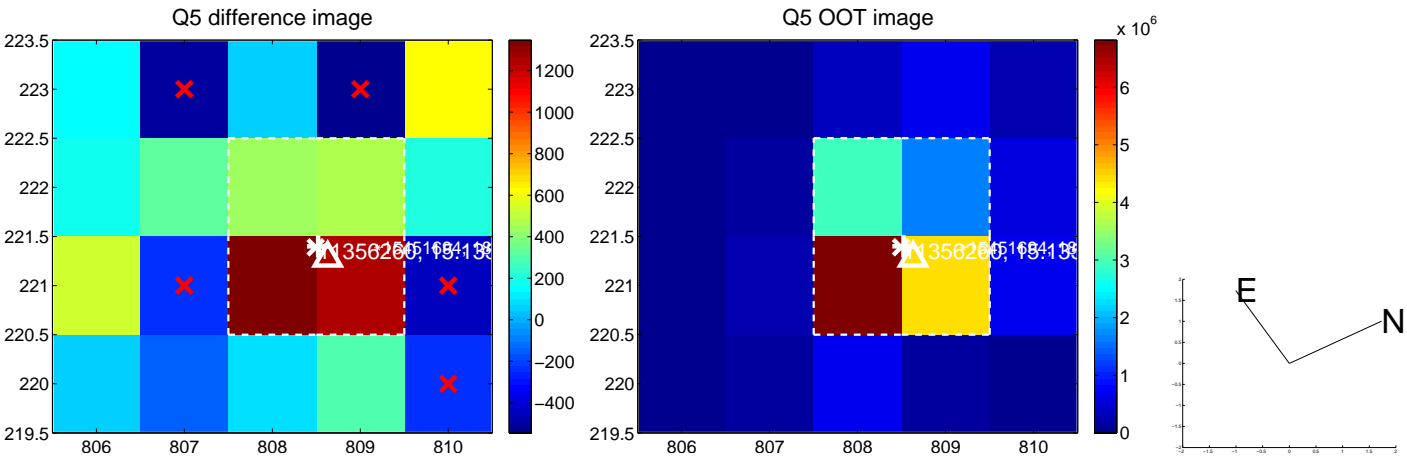


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

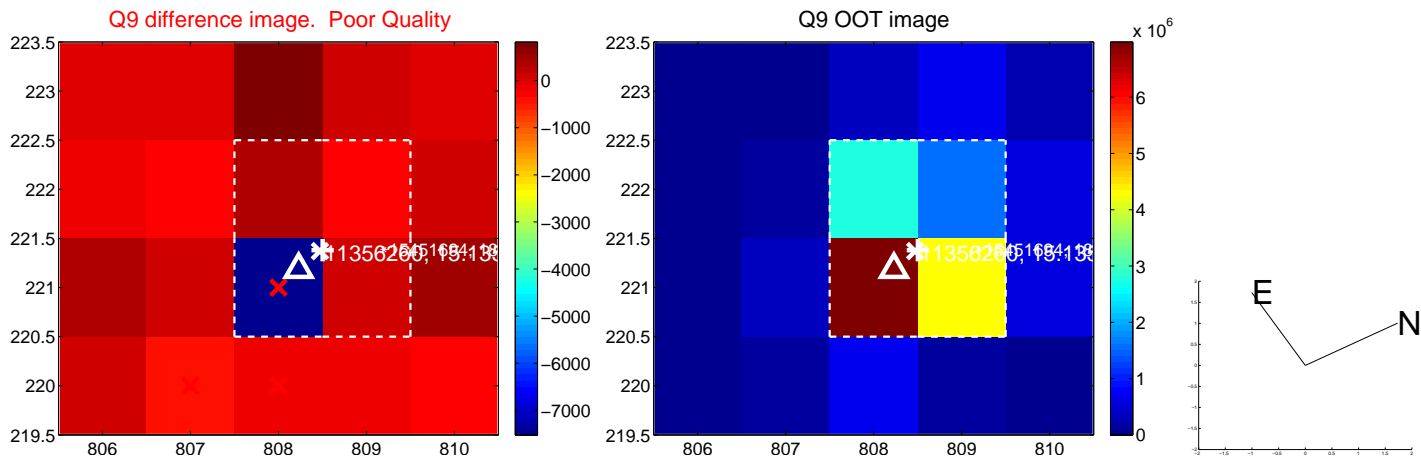
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



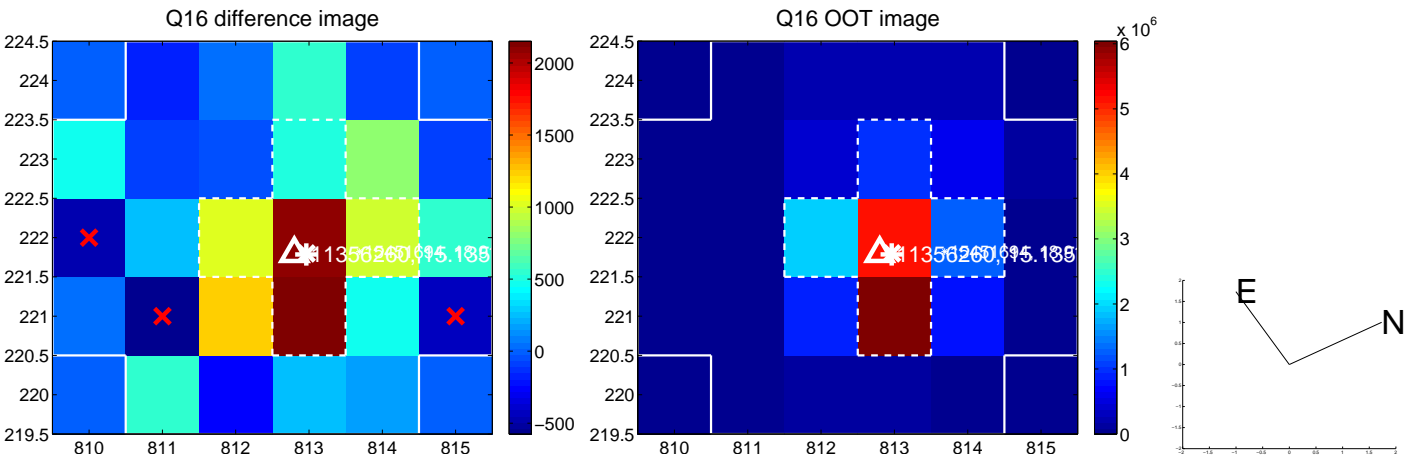
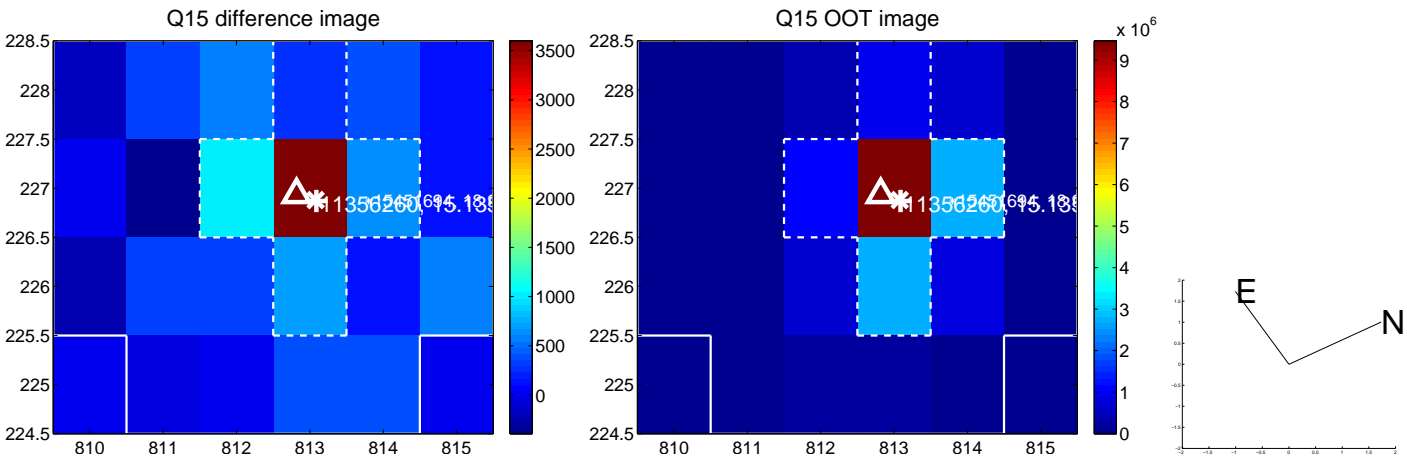
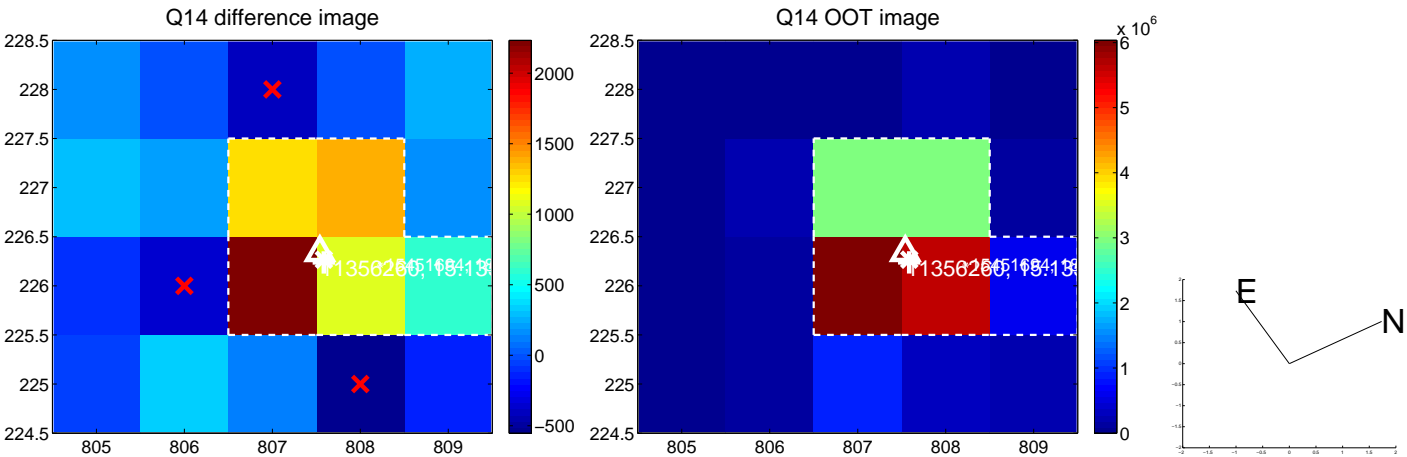
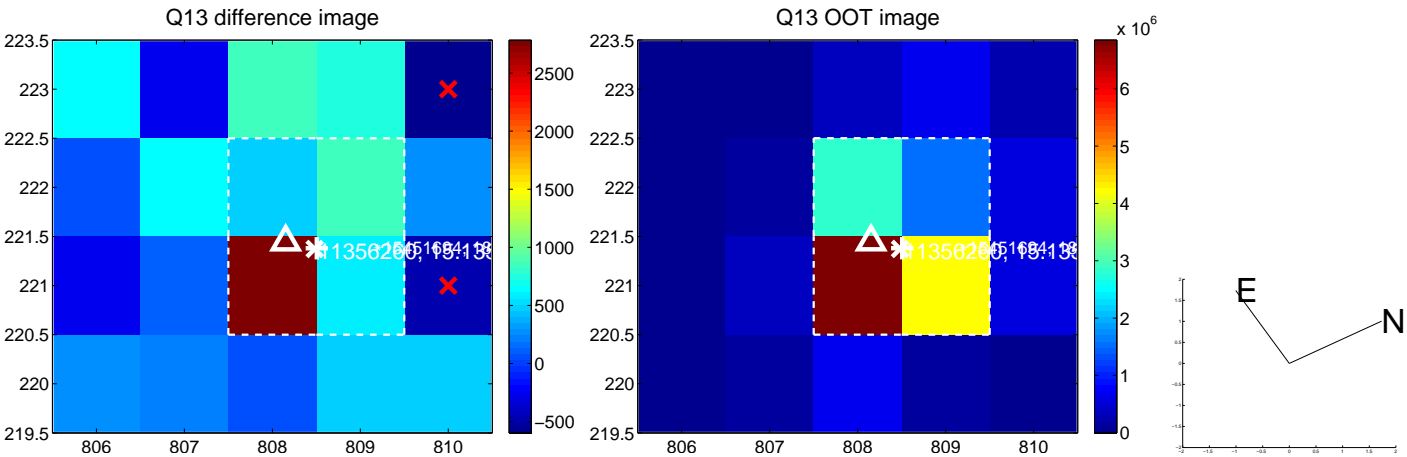
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



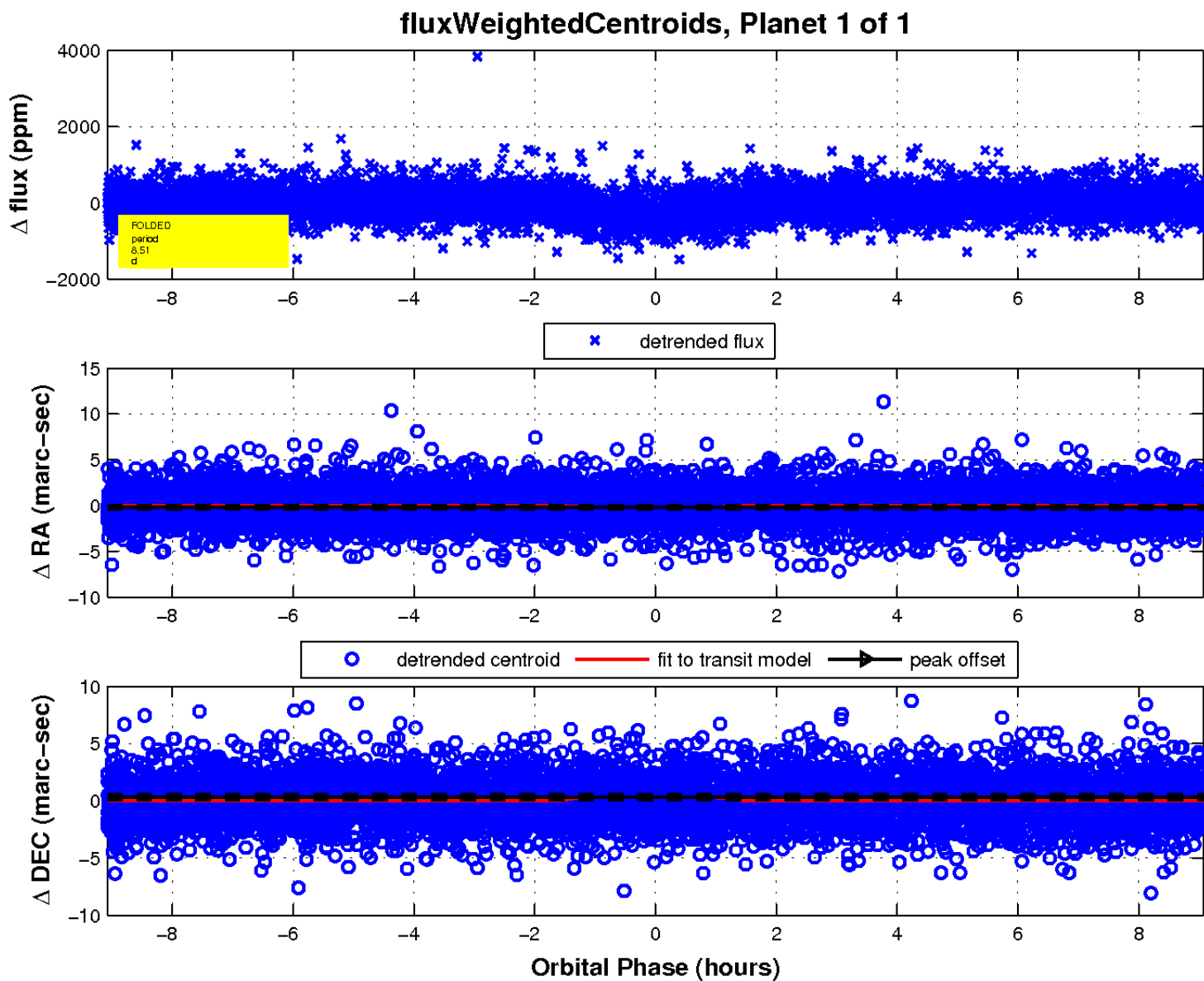
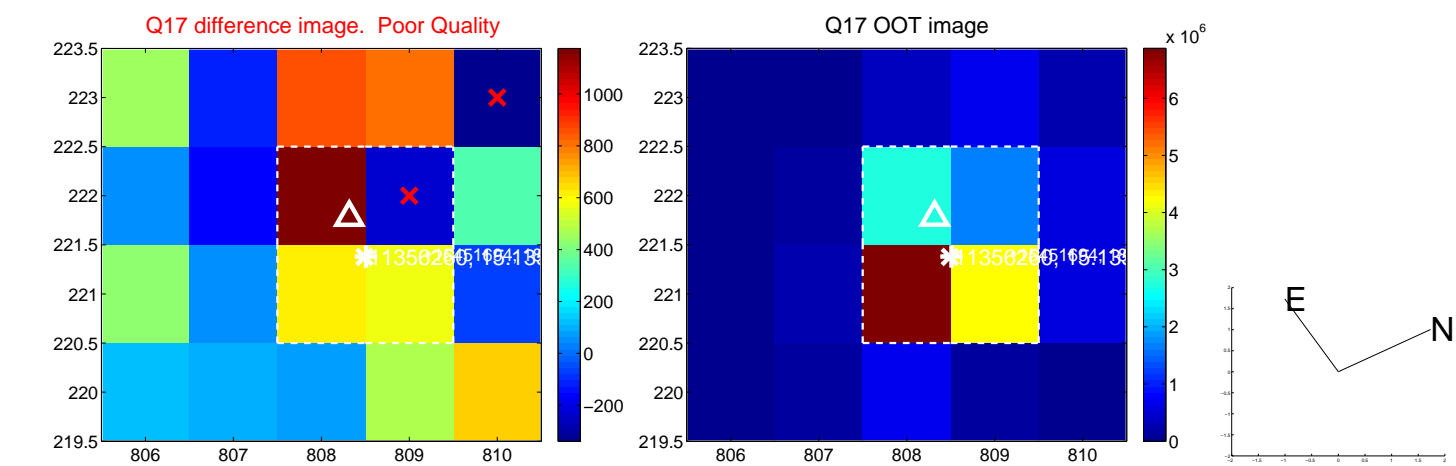
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

