

KIC 011811193

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R _★ (R _☉)	T _★ (K)	R _p (R _⊕)	S _p (S _⊕)
011811193-01	OBS	2260.01	6.117871	133.616510	59.9	3.578	22.1	23.5	1.33	6226	1.23	509.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011811193-01	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 011811193-01

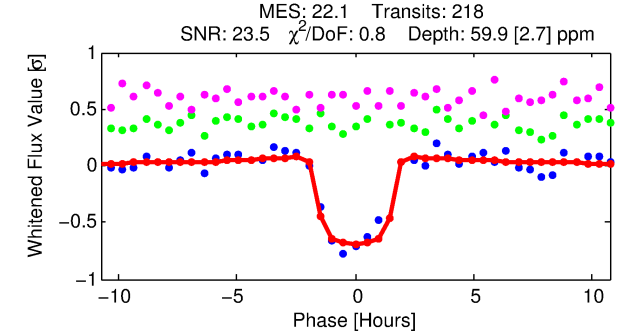
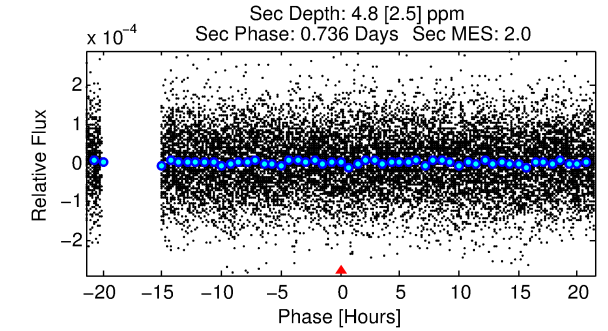
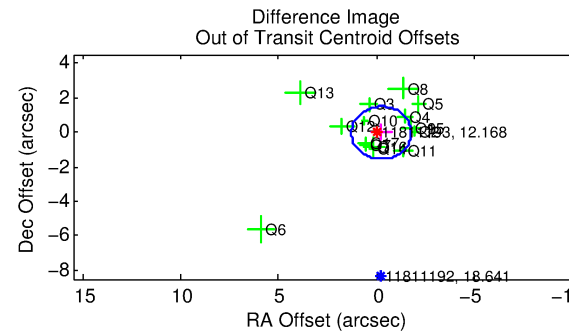
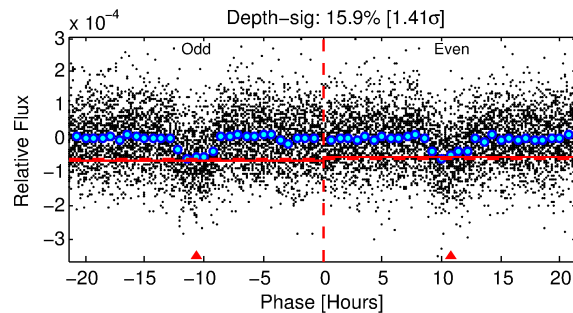
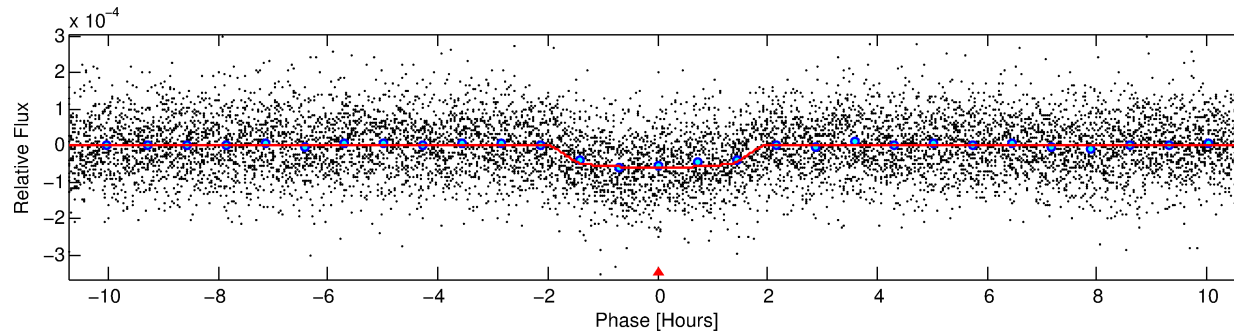
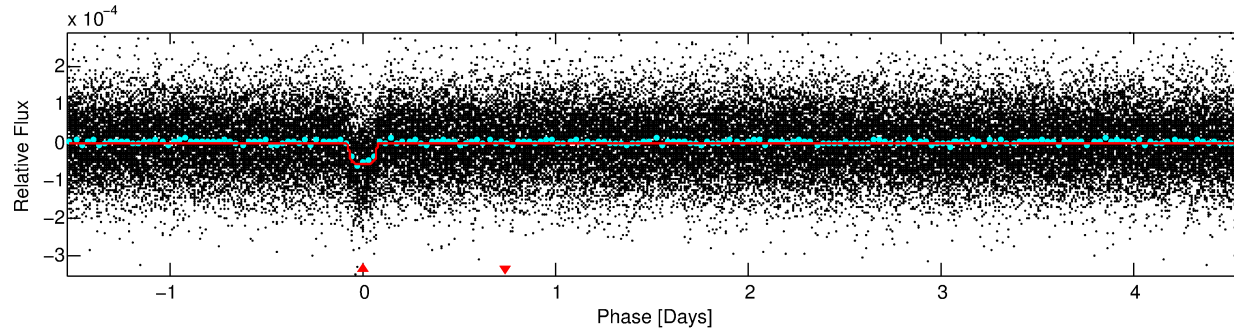
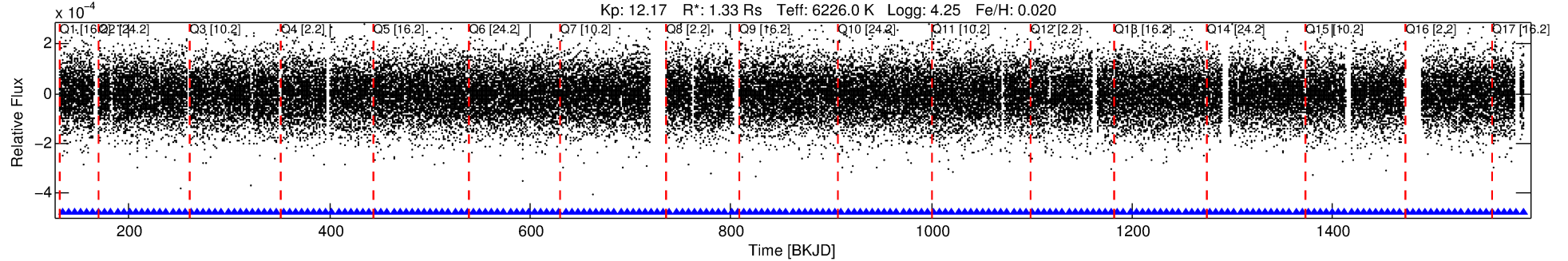
No Significant Match Found

DV One-Page Summary

KIC: 11811193 Candidate: 1 of 1 Period: 6.118 d

KOI: K02260.01 Corr: 0.985

Kp: 12.17 R*: 1.33 Rs Teff: 6226.0 K Logg: 4.25 Fe/H: 0.020



DV Fit Results:

Period = 6.11787 [0.00002] d
Epoch = 133.6165 [0.0025] BKJD
Rp/R* = 0.0085 [0.0016]
a/R* = 5.59 [5.43]
b = 0.92 [0.18]
Seff = 509.90 [120.50]
Teq = 1212 [72] K
Rp = 1.23 [0.32] Re
a = 0.0685 [0.0103] AU
Ag = 8.23 [5.58] [1.30σ]
Teffp = 3173 [513] K [3.78σ]

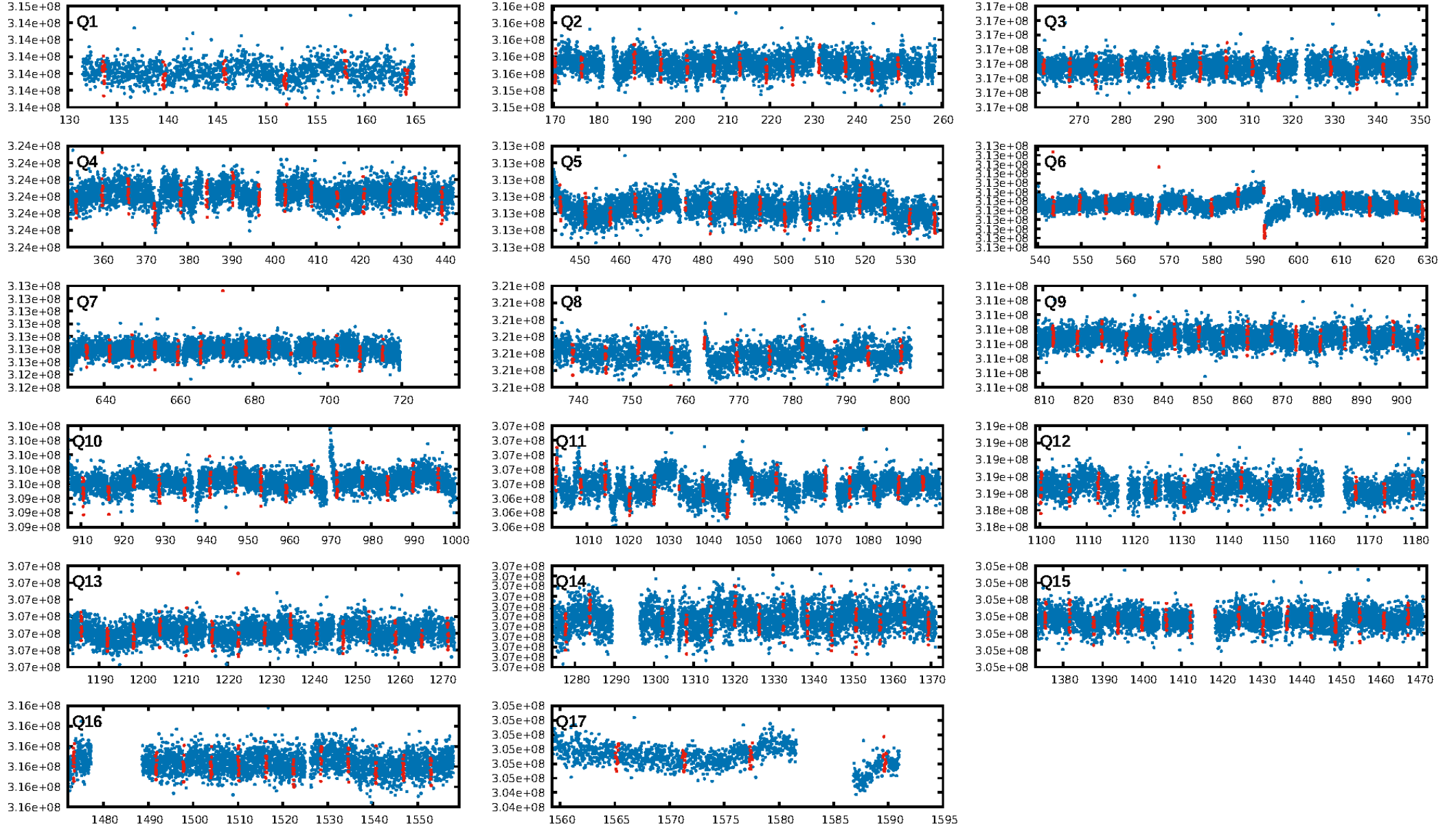
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.94e-102
RollingBand-fgt: 1.00 [208/208]
GhostDiagnostic-chr: 7.287
Centroid-sig: 2.5%
Centroid-so: 0.918 arcsec [1.96σ]
OotOffset-rm: 0.246 arcsec [0.48σ]
KicOffset-rm: 0.241 arcsec [0.53σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.81 [13/16]
DiffImageOverlap-fno: 1.00 [17/17]

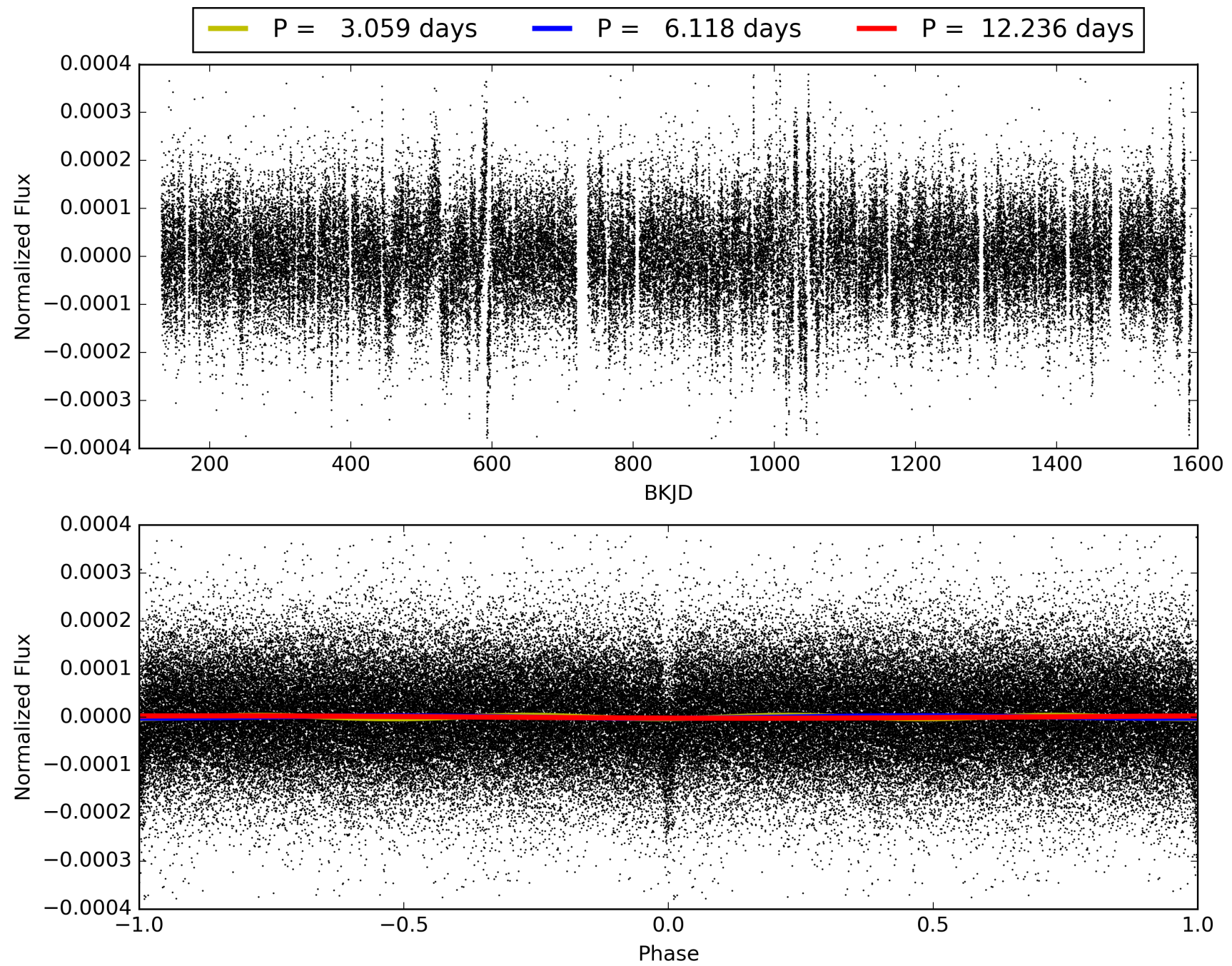
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:03:51 Z

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

TCE 011811193-01, PDC Light Curves

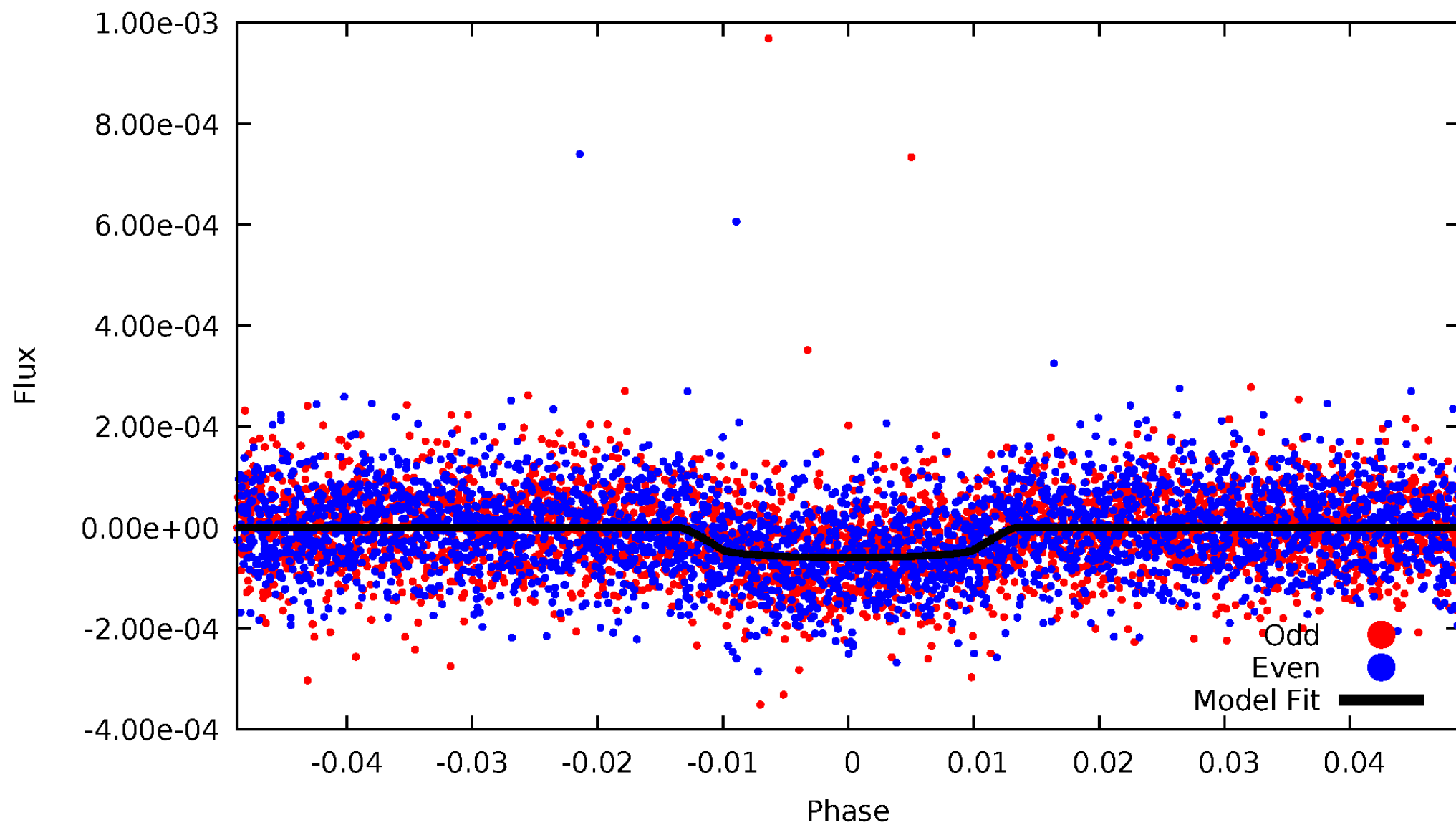


TCE 011811193-01



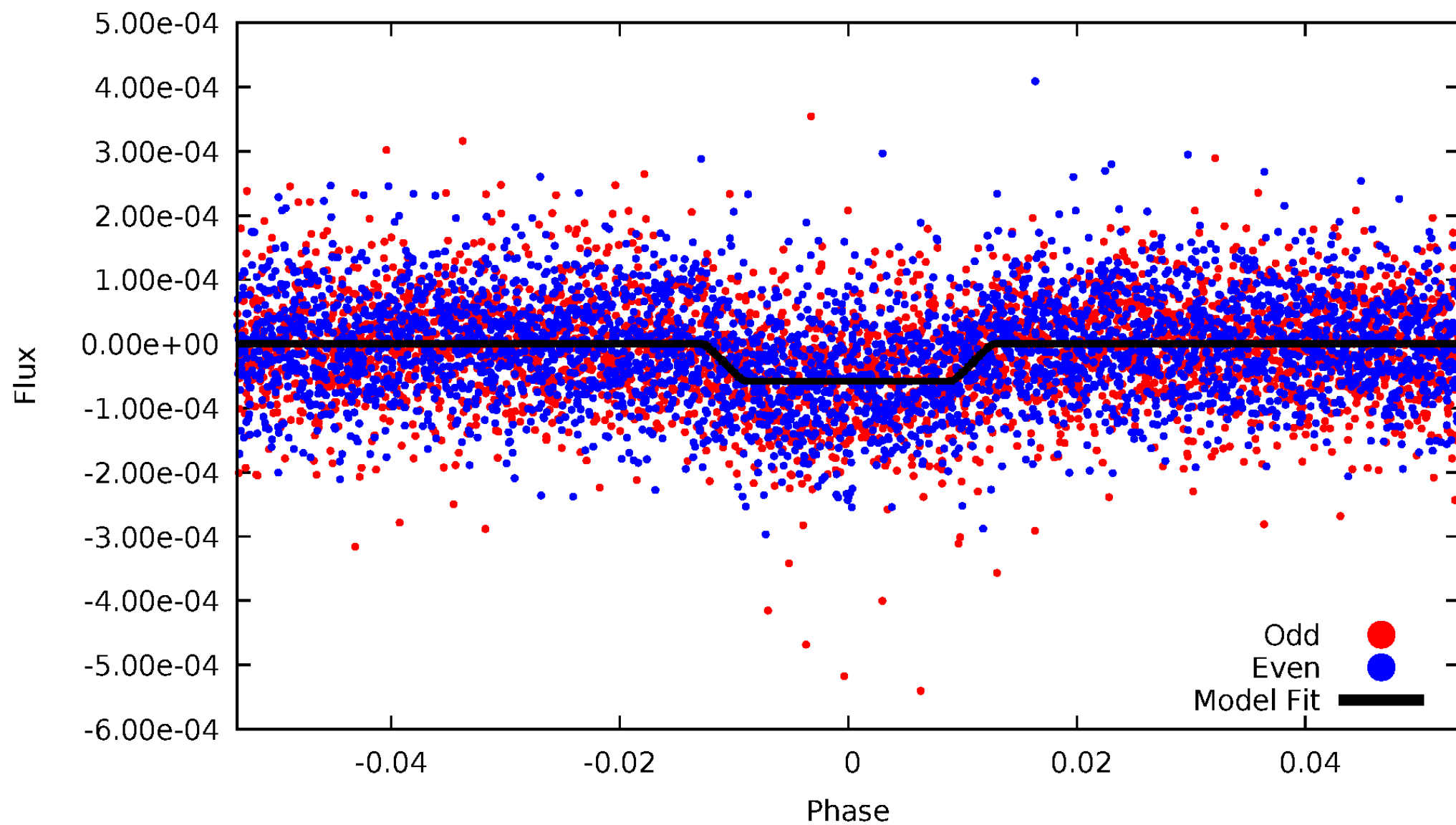
DV Odd/Even

TCE 011811193-01



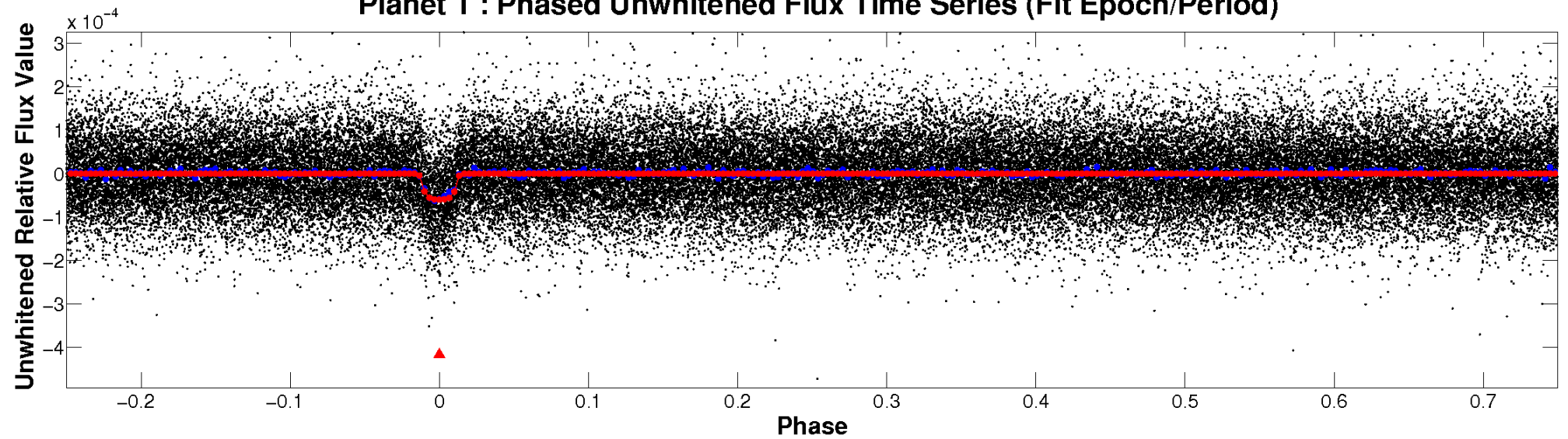
ALT Odd/Even

TCE 011811193-01

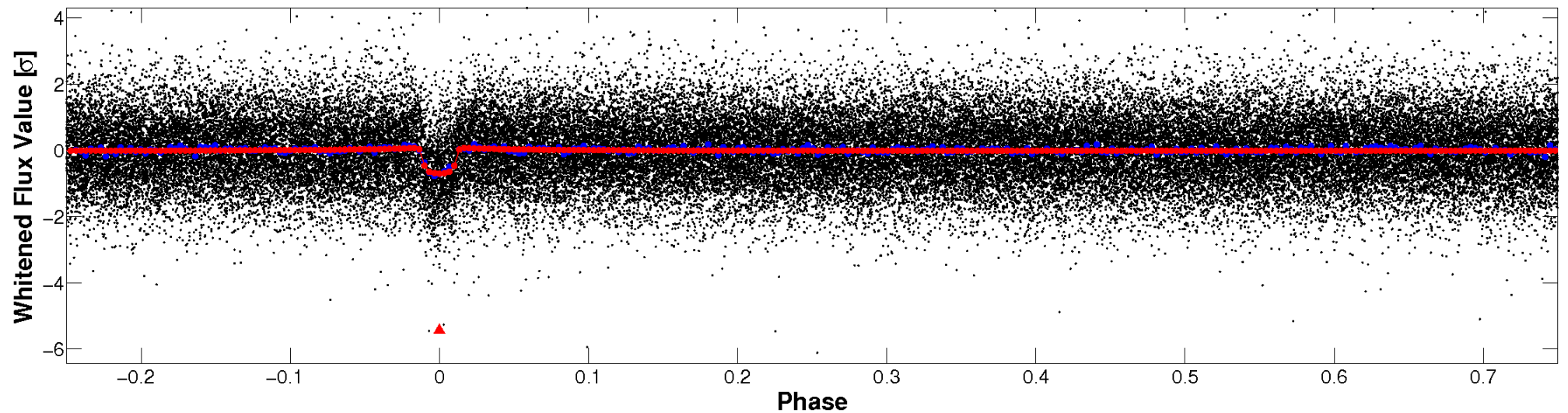


Non-Whitened Vs. Whitened Light Curve

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

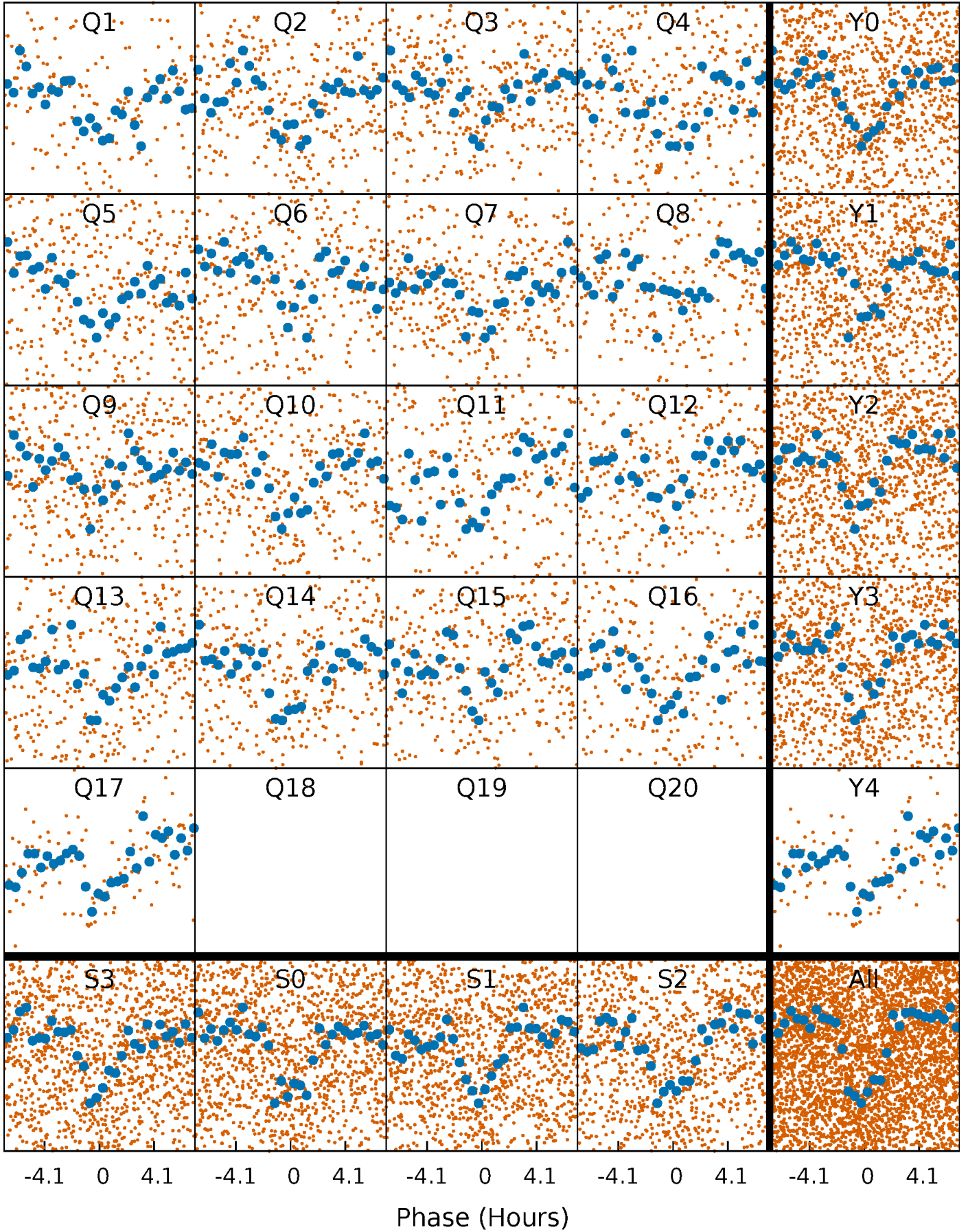


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



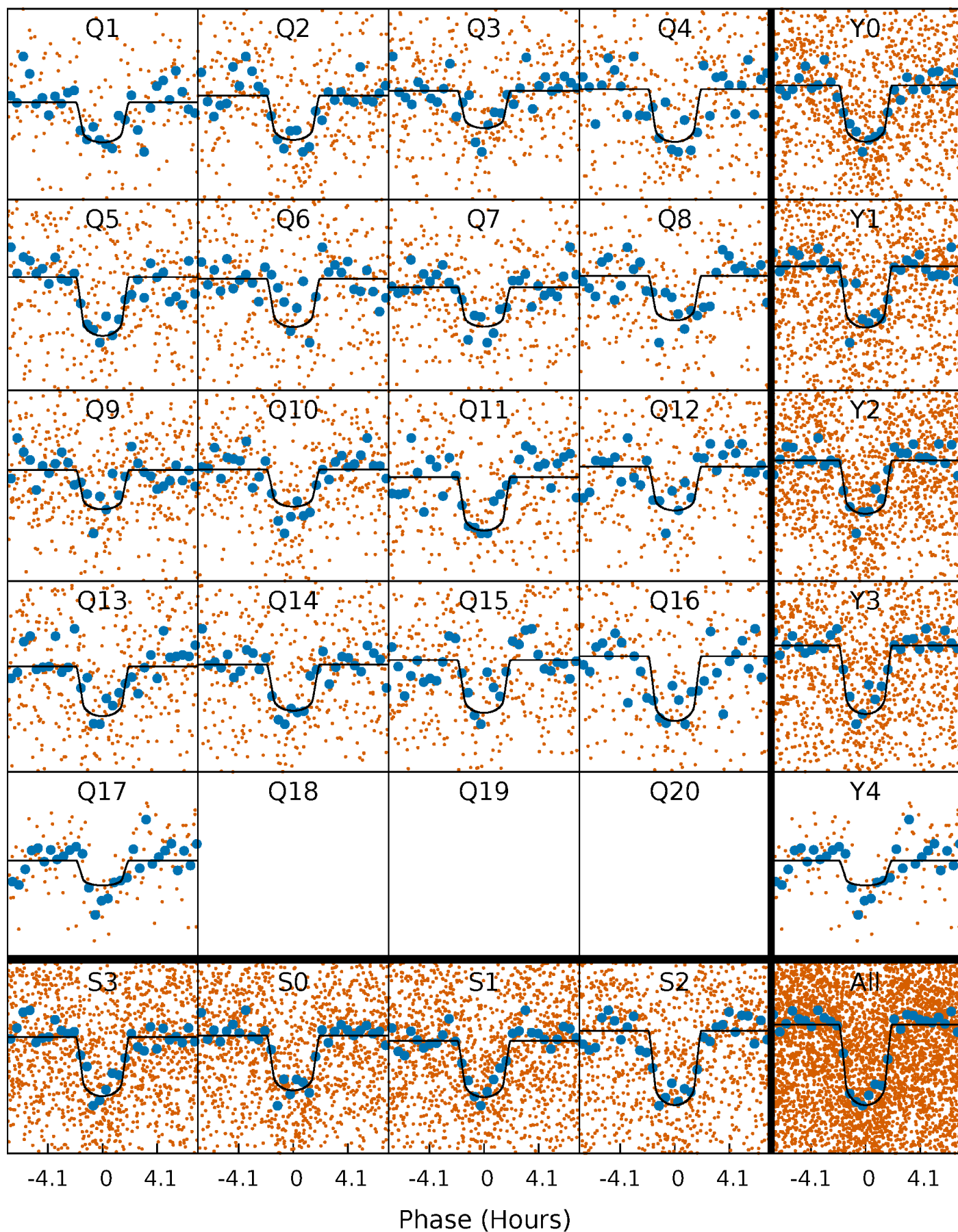
PDC Quarter-Phased Transit Curves

TCE 011811193-01 P= 6.117871 Days $T_0=133.616510$ (BKJD)



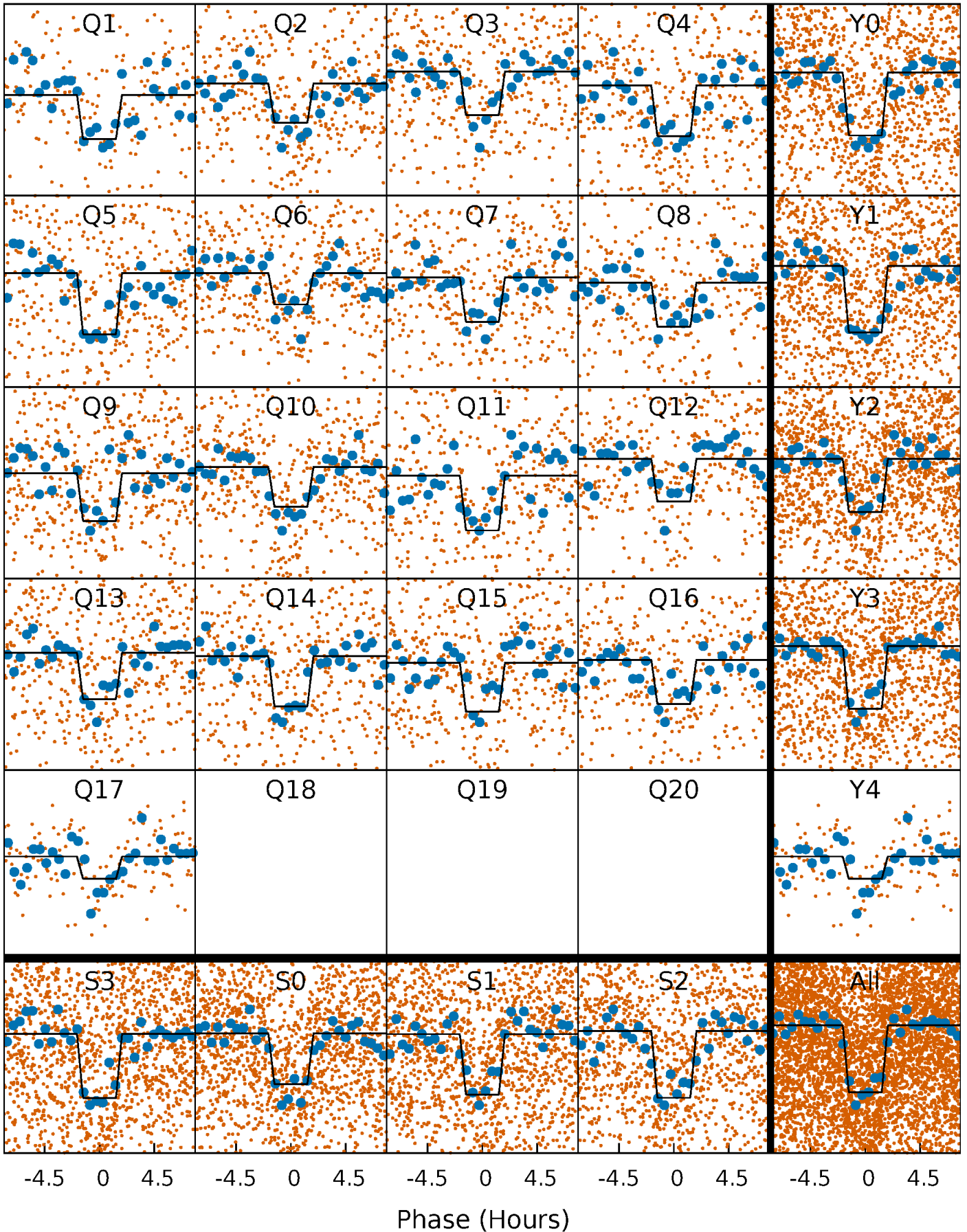
DV Quarter-Phased Transit Curves

TCE 011811193-01 P= 6.117871 Days $T_0=133.616510$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

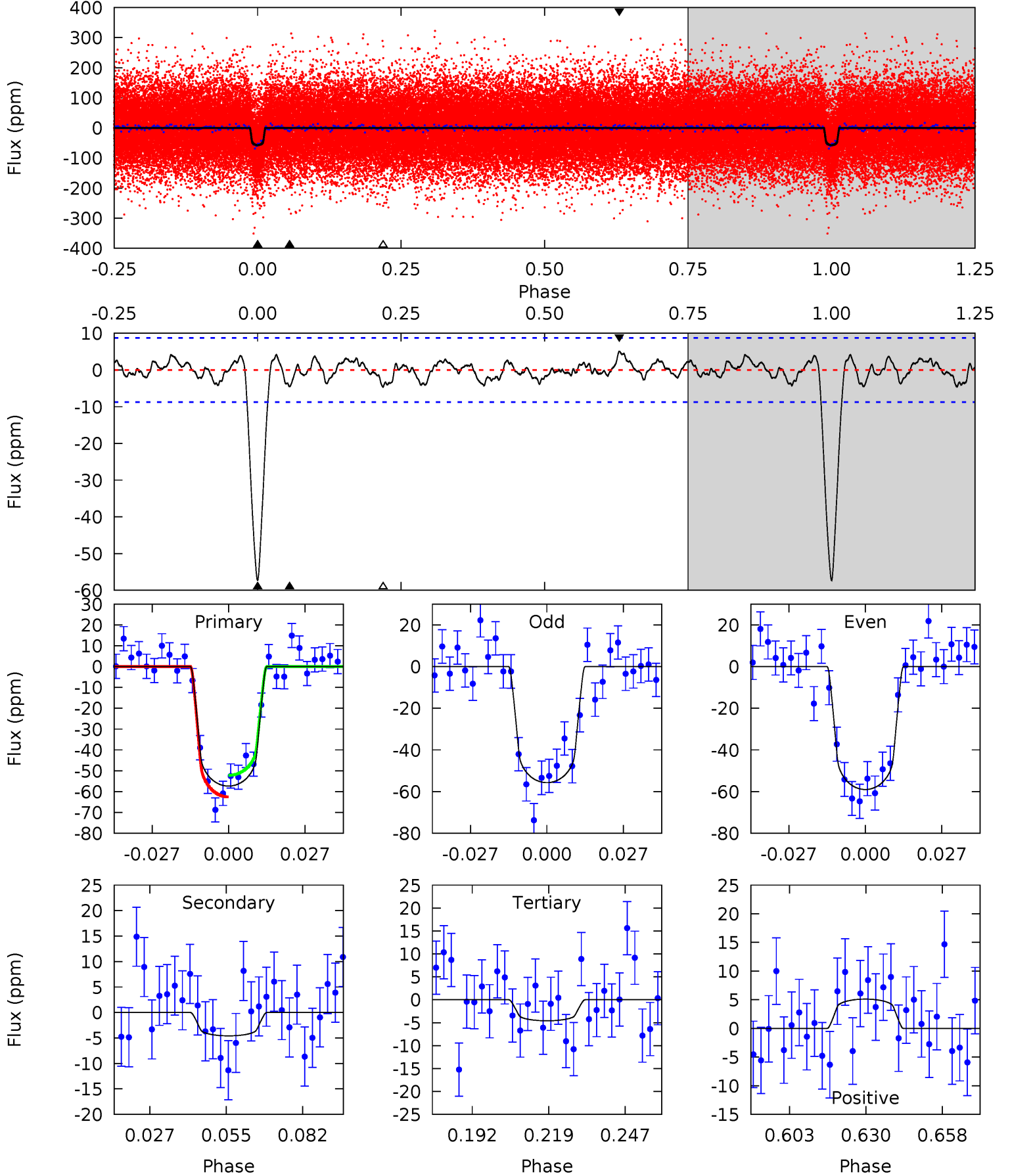
TCE 011811193-01 P= 6.117873 Days $T_0=133.616544$ (BKJD)



DV Model-Shift Uniqueness Test

011811193-01, P = 6.117871 Days, E = 127.498639 Days

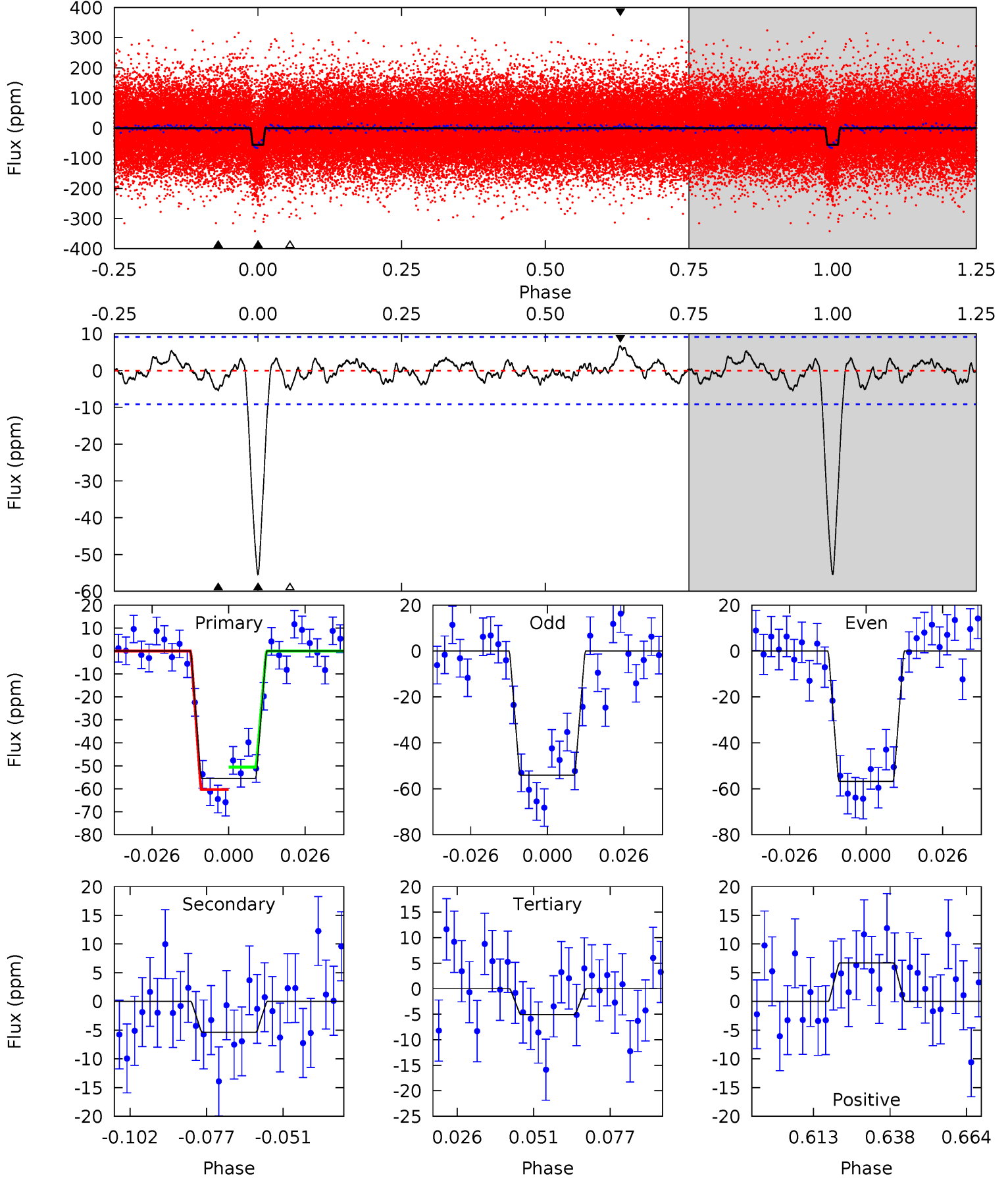
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.7	2.53	2.53	2.82	4.83	2.21	1.07	29.1	28.8	0.00	-0.29	0.91	1.00	0.08	2.86



Alt Model-Shift Uniqueness Test

011811193-01, P = 6.117873 Days, E = 127.498671 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.4	2.83	2.69	3.55	4.84	2.23	1.12	26.7	25.8	0.15	-0.72	0.72	0.97	0.11	2.60



Stellar Parameters For KIC 011811193

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6226^{+112}_{-137}	$4.247^{+0.120}_{-0.120}$	$0.020^{+0.150}_{-0.150}$	$1.333^{+0.238}_{-0.195}$	$1.143^{+0.106}_{-0.086}$	$0.679^{+0.380}_{-0.245}$
	+2%/-2%	+3%/-3%	+750%/-750%	+18%/-15%	+9%/-8%	+56%/-36%
Source	SPE59	SPE59	SPE59	DSEP		

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

Secondary Eclipse Parameters for KIC 011811193-01 / KOI 2260.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-5 ± 2	$1.22^{+0.27}_{-0.25}$	1691^{+88}_{-81}	3569^{+338}_{-324}	$7.859^{+5.904}_{-3.573}$
Alt.	-5 ± 2	$1.09^{+0.28}_{-0.24}$	1691^{+81}_{-75}	3796^{+417}_{-358}	11^{+9}_{-5}

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

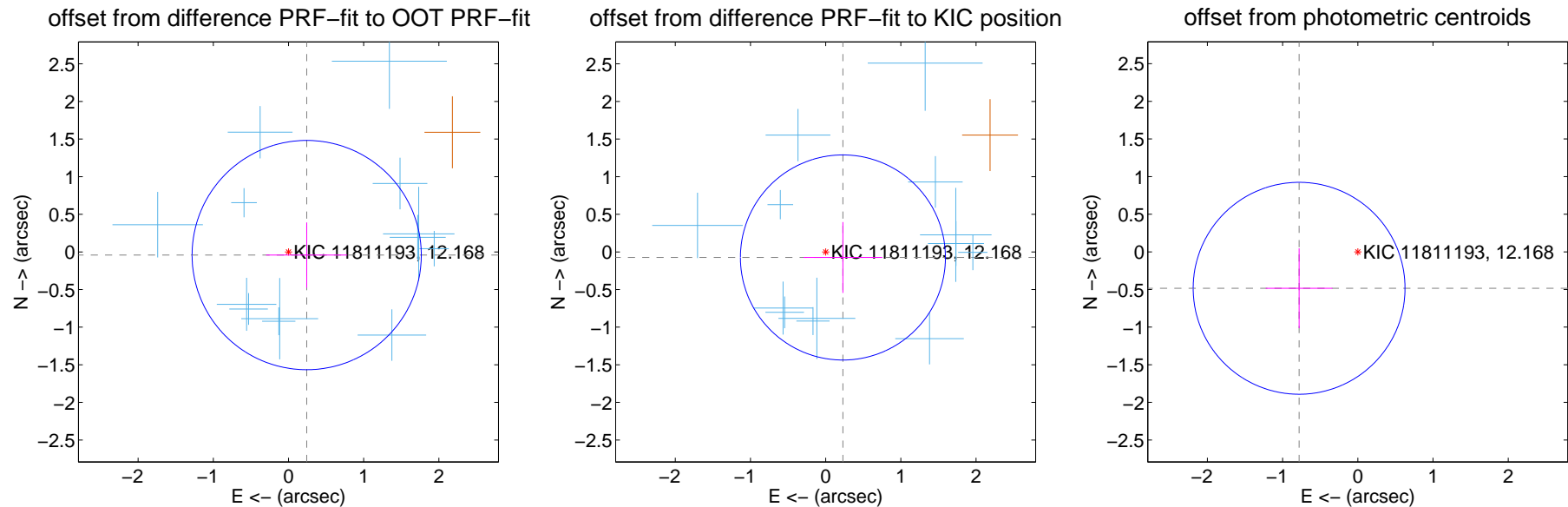
DV Centroid Data

Supplemental centroid analysis for 011811193-01. Kepler magnitude: 12.17. Transit SNR 23.48

There are 13 quarters with good PRF difference image offsets

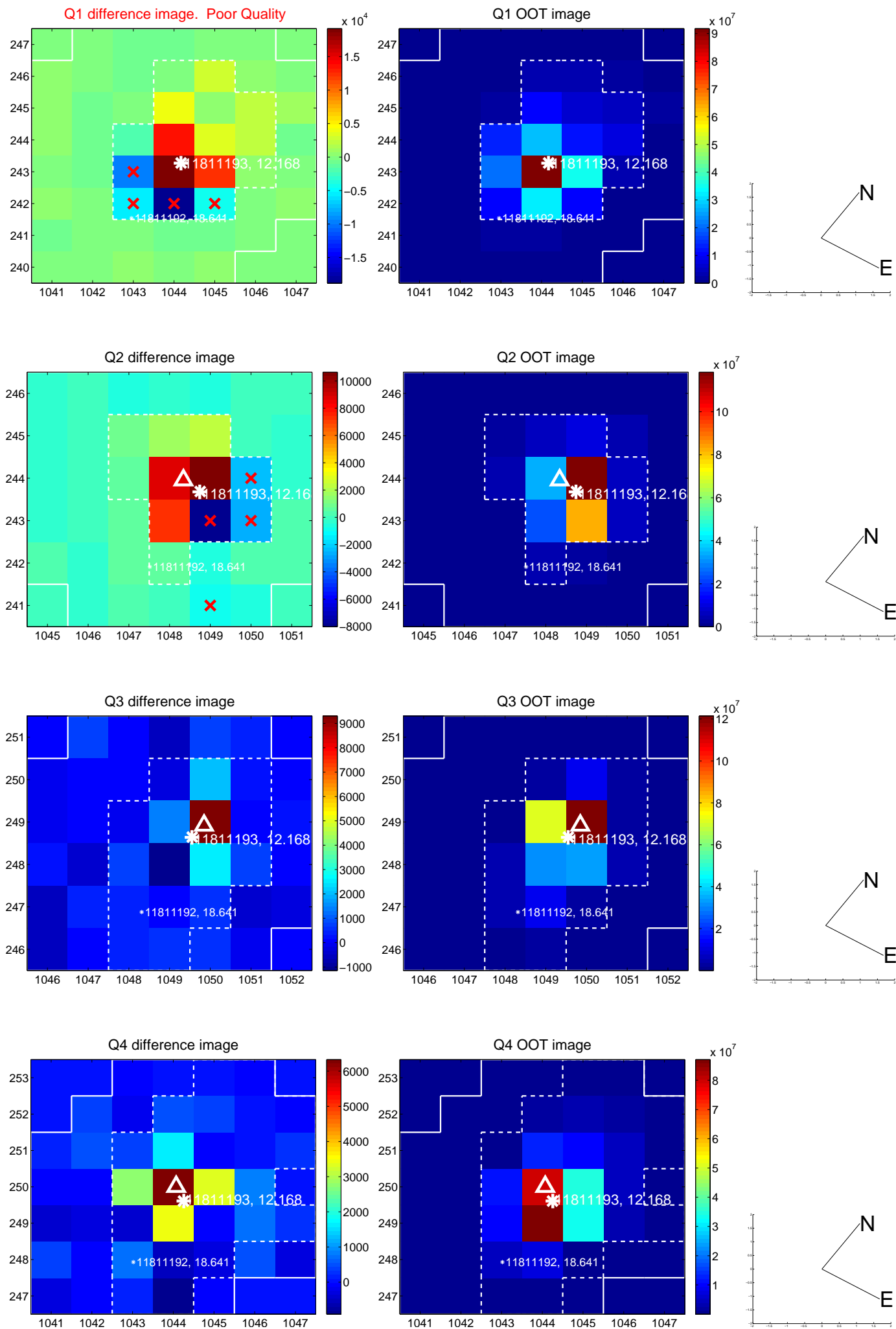
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.246 ± 0.508	0.48	-0.242 ± 0.540	-0.042 ± 0.434
PRF-fit source offset from KIC position	0.241 ± 0.454	0.53	-0.229 ± 0.524	-0.074 ± 0.471
photometric centroid source offset	0.92 ± 0.47	1.96	0.78 ± 0.44	-0.48 ± 0.53

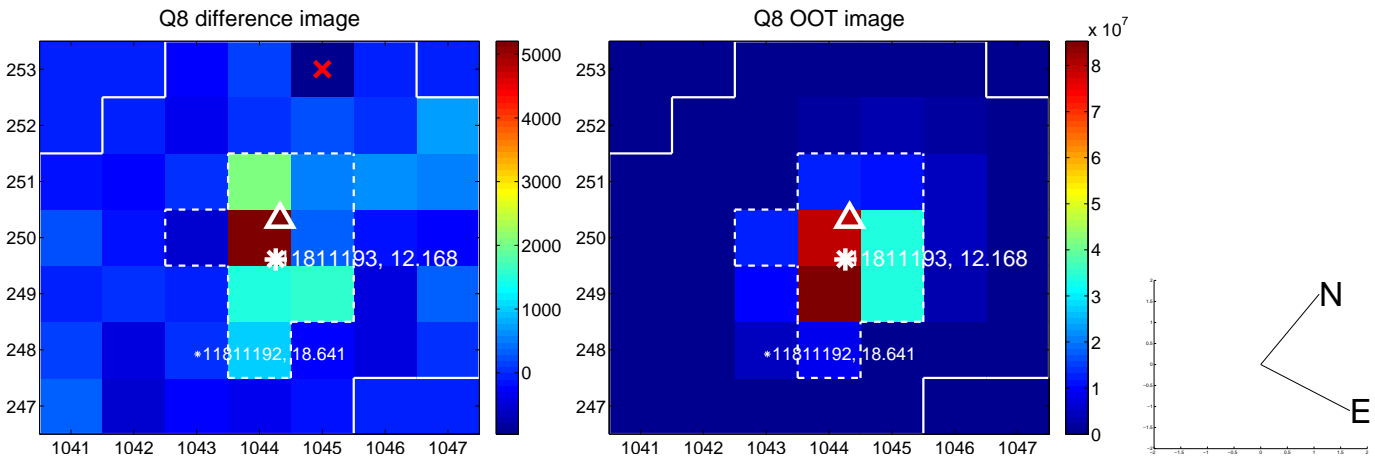
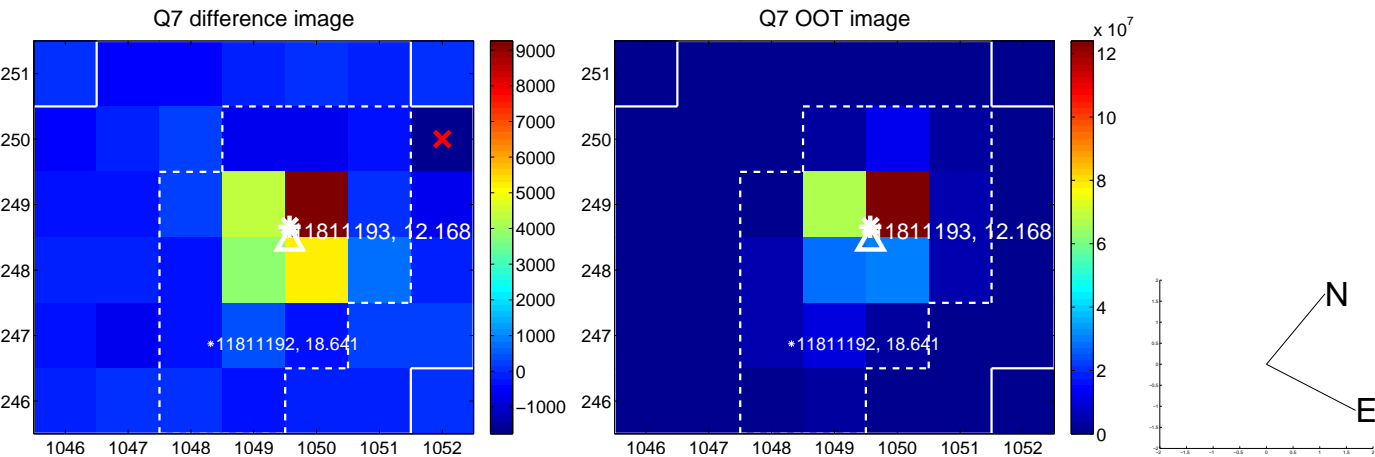
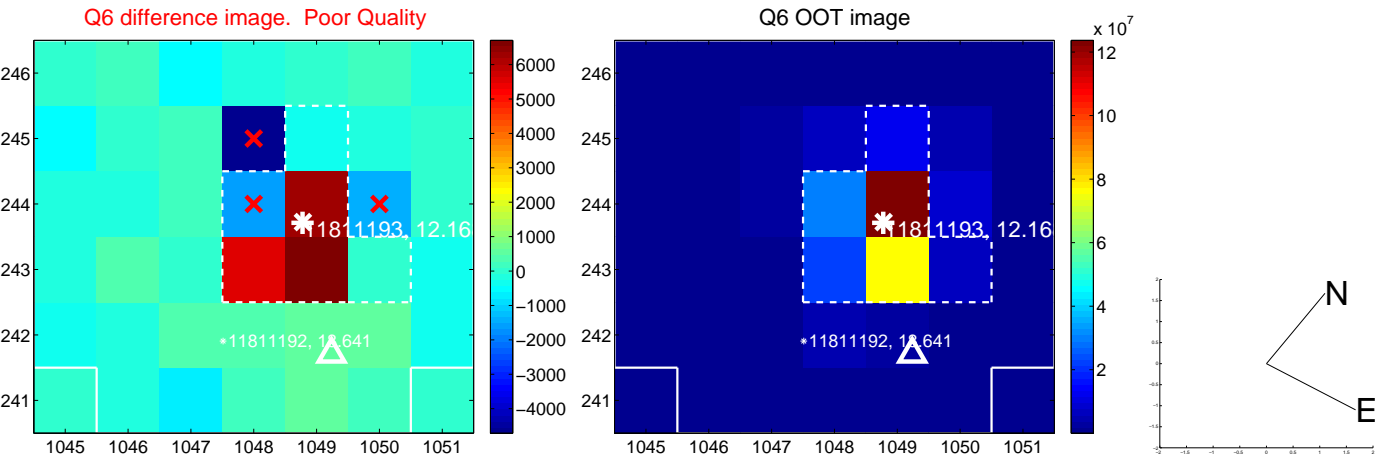
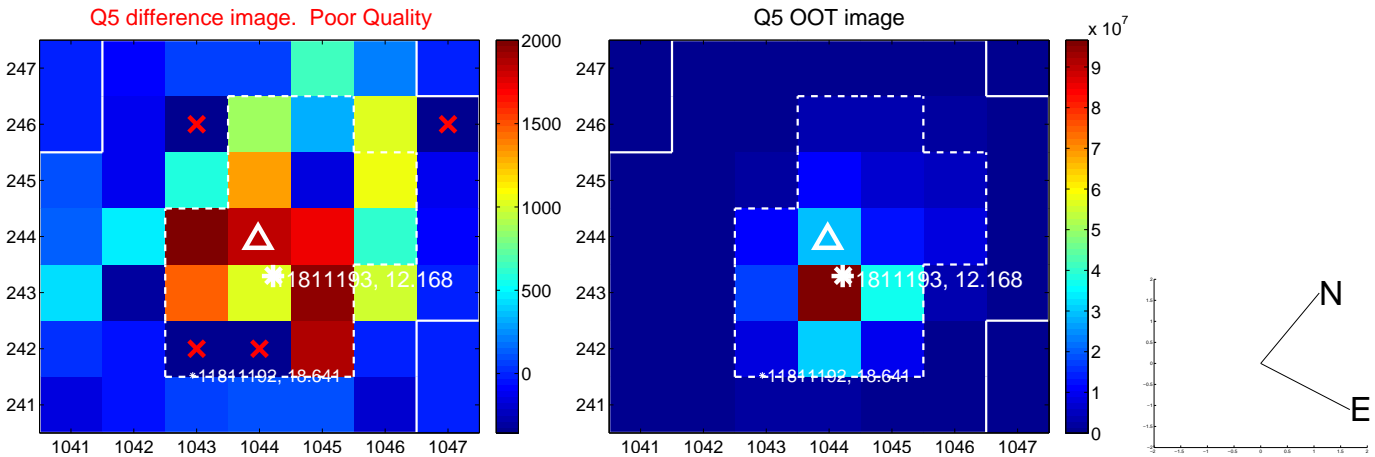


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

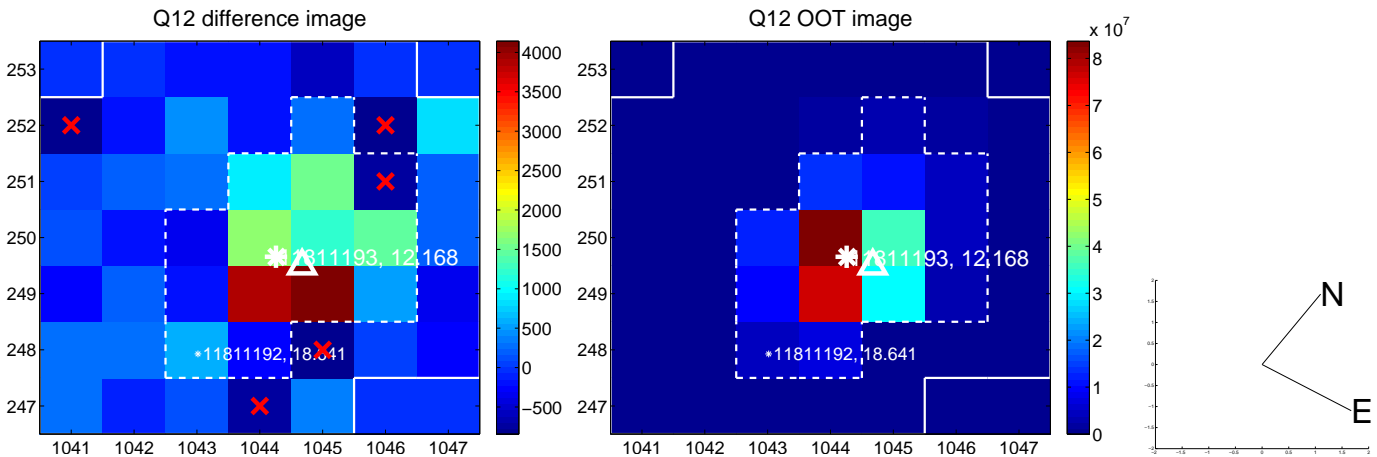
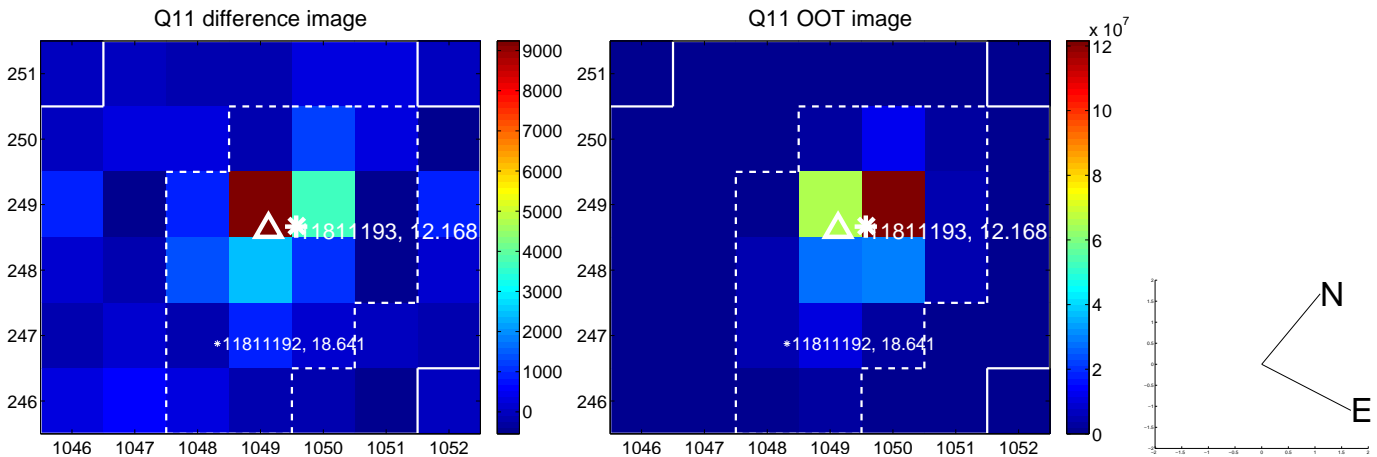
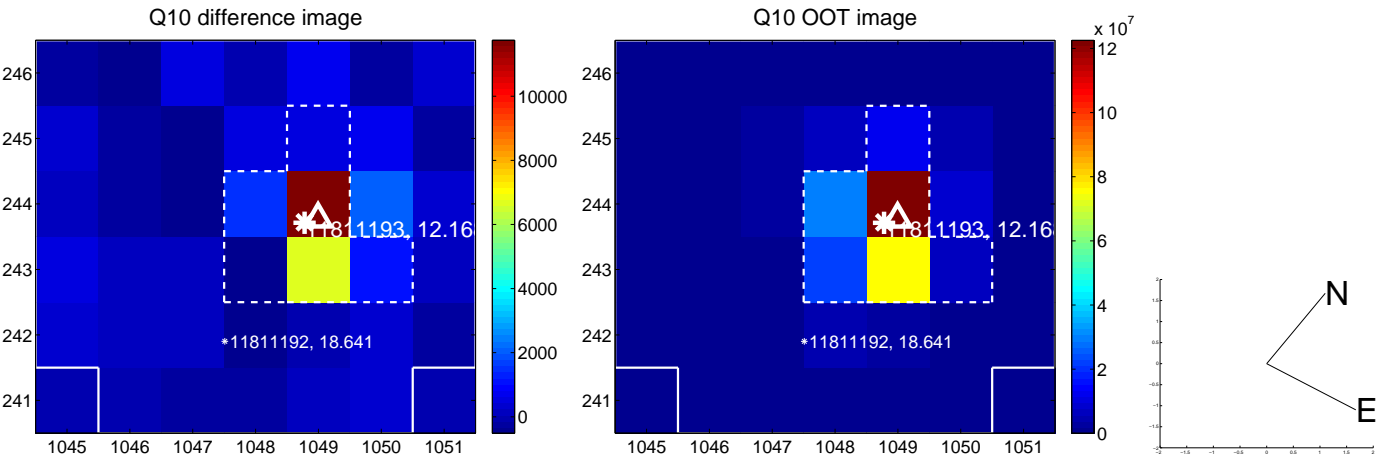
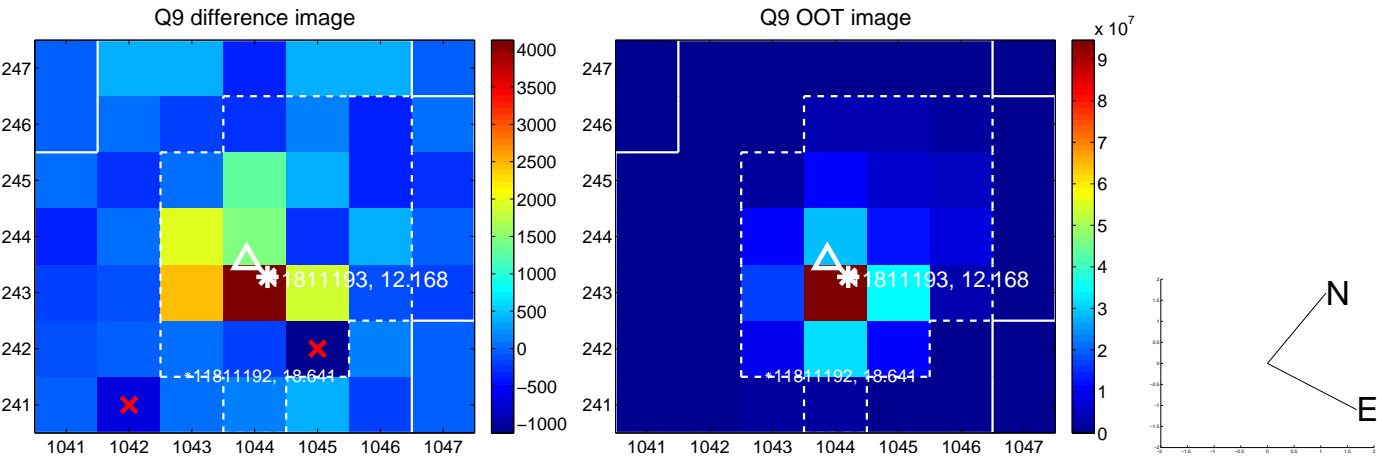
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



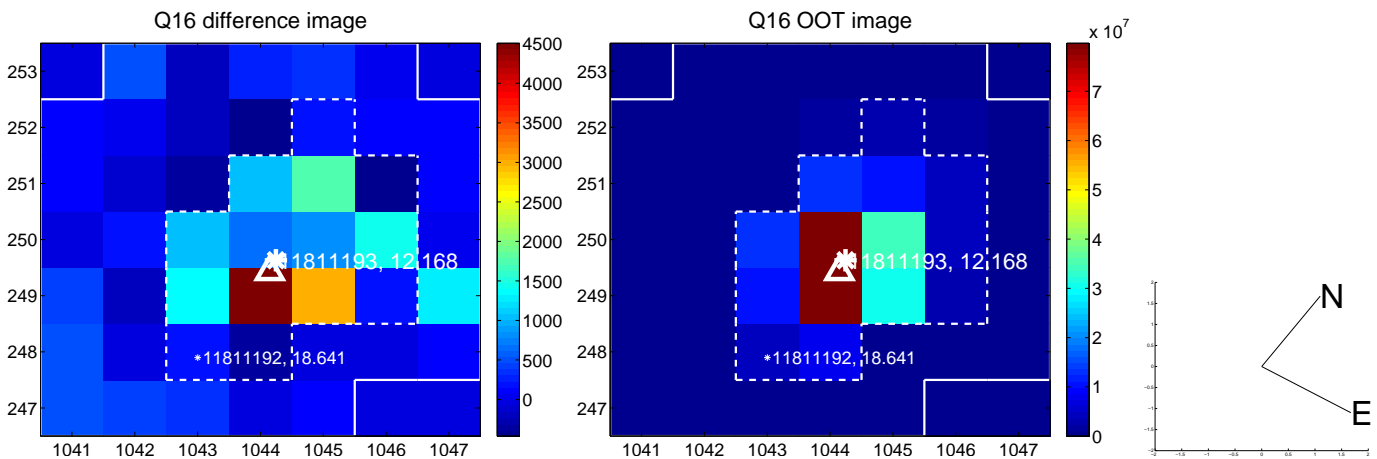
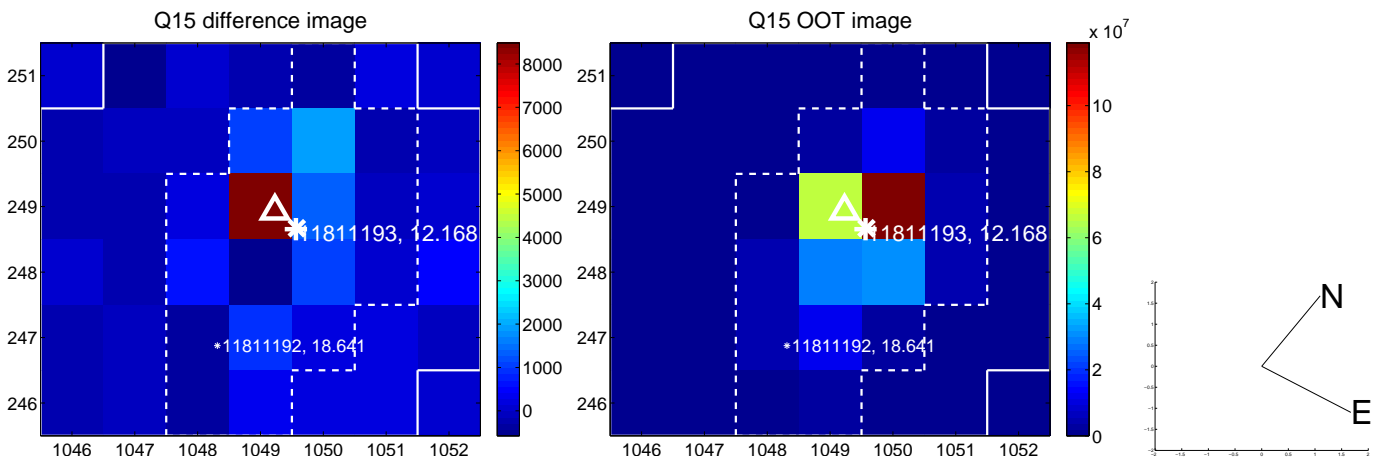
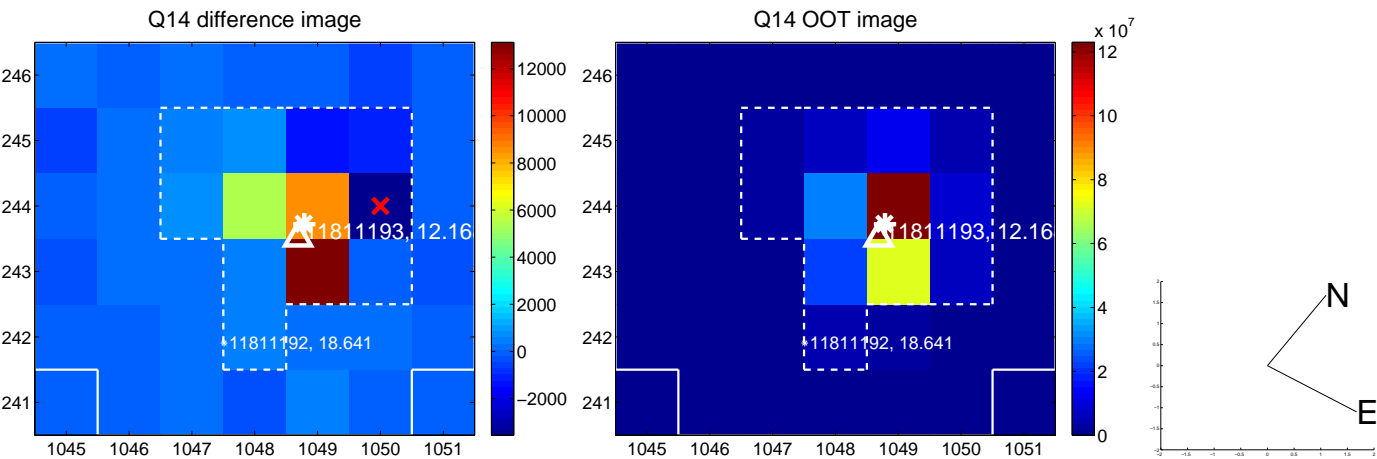
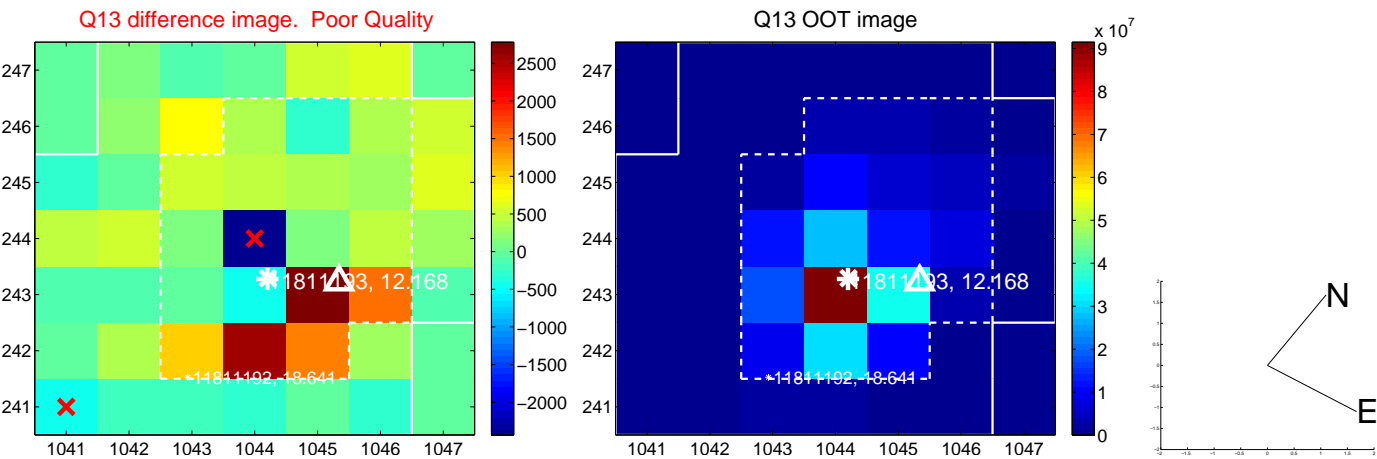
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



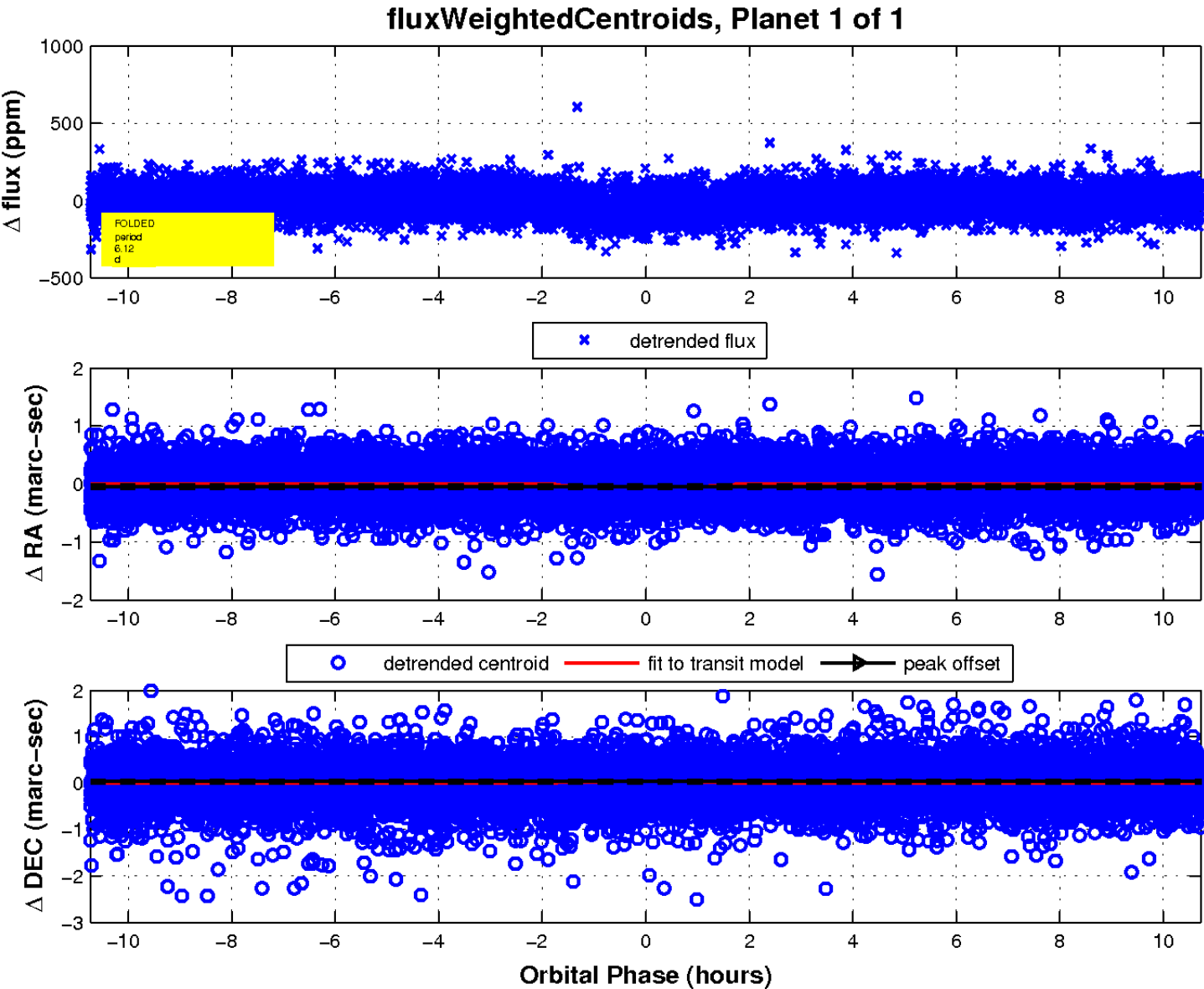
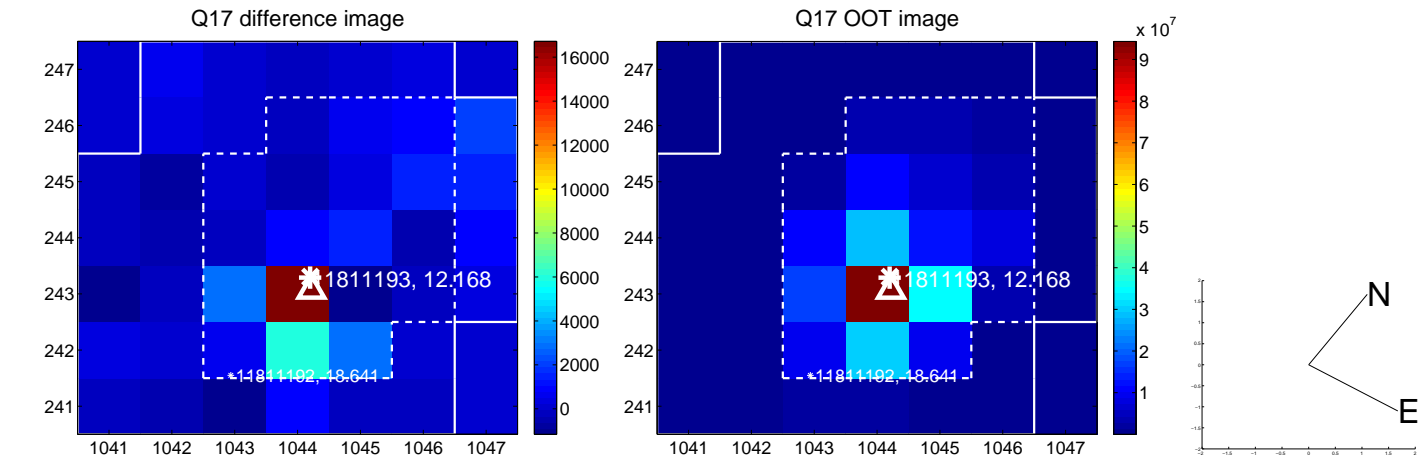
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

