

KIC 006305192

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})
006305192-01	OBS	0219.01	8.025118	132.468995	3118.2	5.538	393.8	389.7	1.37	6002	8.16	337.61

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006305192-01	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.

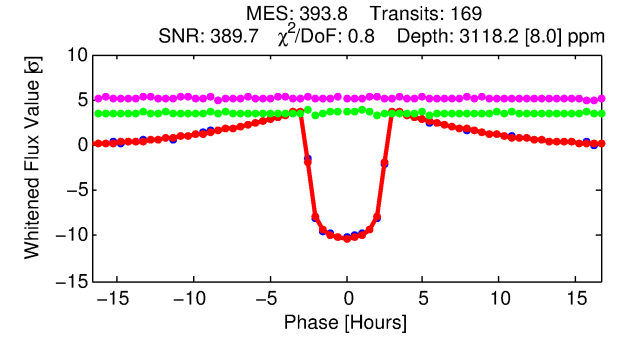
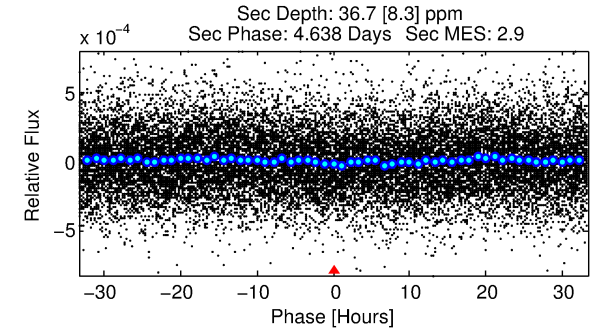
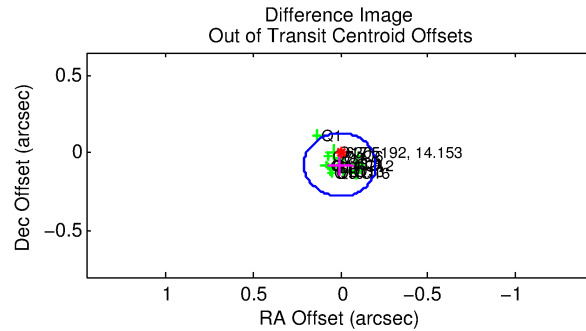
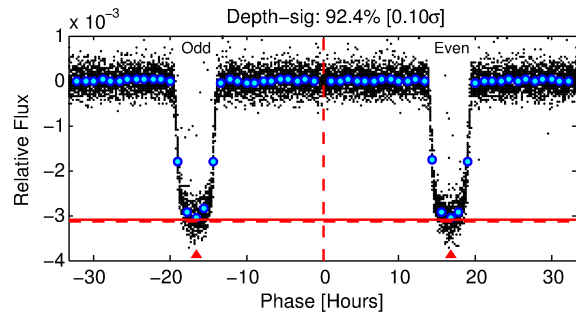
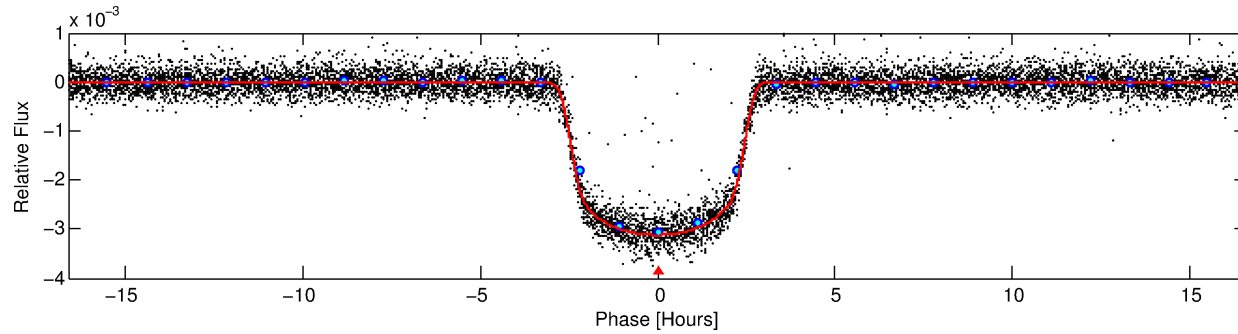
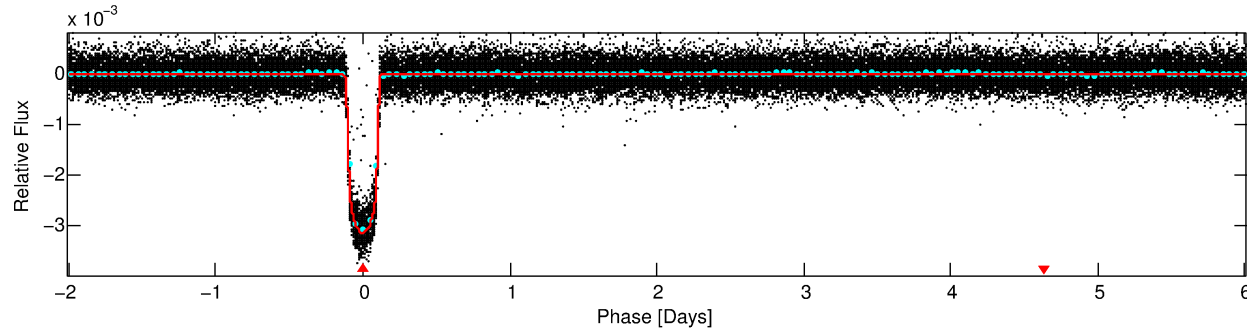
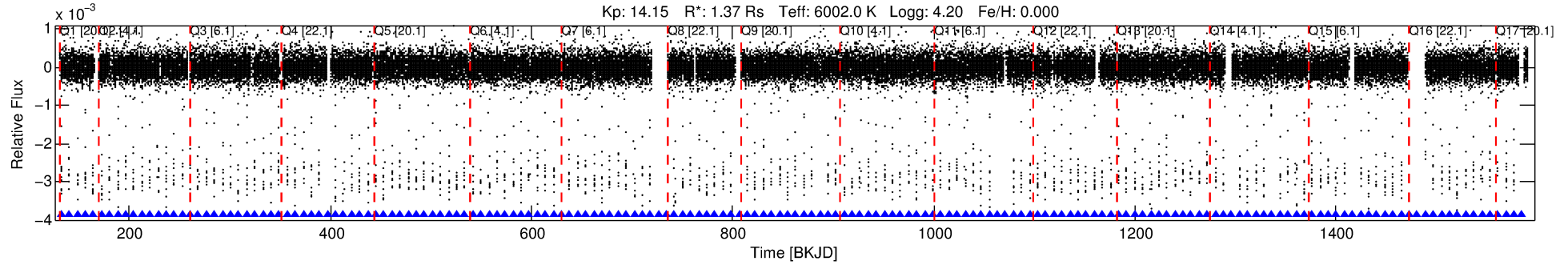
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006305192-01

No Significant Match Found

DV One-Page Summary

KIC: 6305192 Candidate: 1 of 1 Period: 8.025 d
KOI: K00219.01 Corr: 0.980



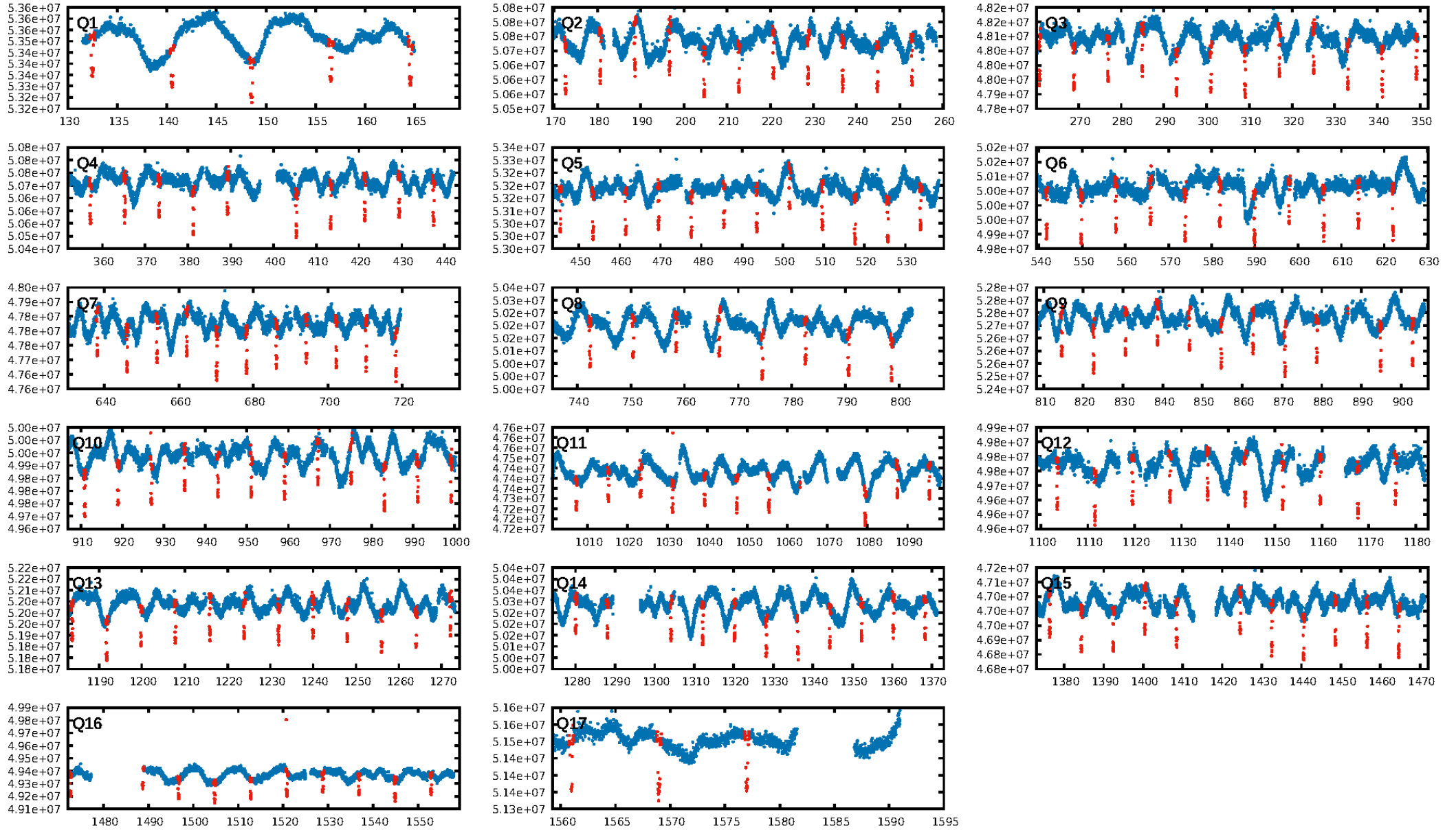
DV Fit Results:

Period = 8.02512 [0.00000] d
Epoch = 132.4690 [0.0002] BKJD
Rp/R* = 0.0546 [0.0003]
a/R* = 8.80 [0.22]
b = 0.70 [0.02]
Seff = 337.61 [96.68]
Teff = 1093 [78] K
Rp = 8.16 [1.44] Re
a = 0.0803 [0.0137] AU
Ag = 1.96 [0.70] [1.37 σ]
Teffp = 1999 [120] K [6.33 σ]

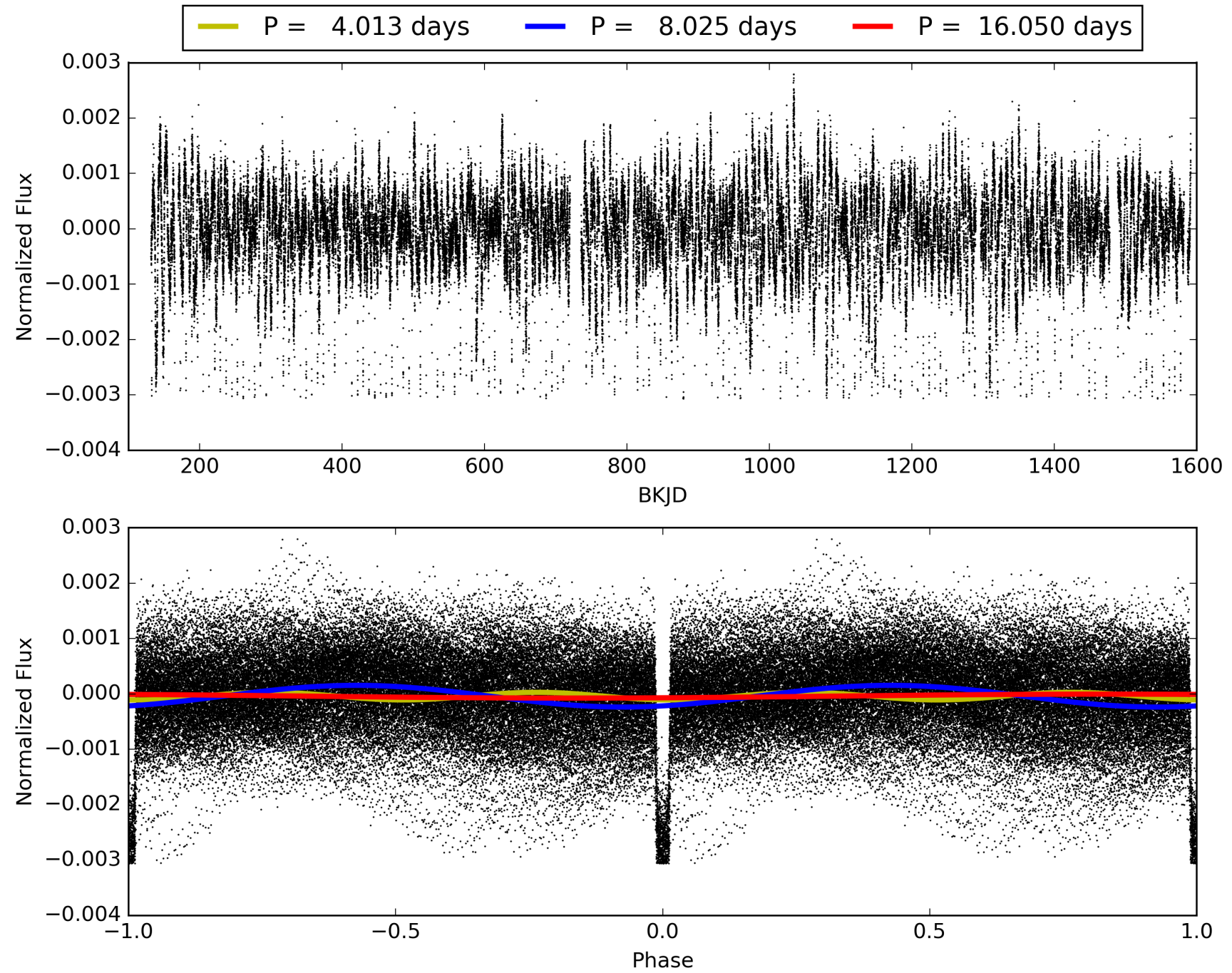
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 48.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [161/161]
GhostDiagnostic-chr: 4.158
Centroid-sig: 0.0%
Centroid-so: 0.171 arcsec [6.39 σ]
OotOffset-rm: 0.075 arcsec [1.10 σ]
KicOffset-rm: 0.112 arcsec [1.62 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 006305192-01, PDC Light Curves

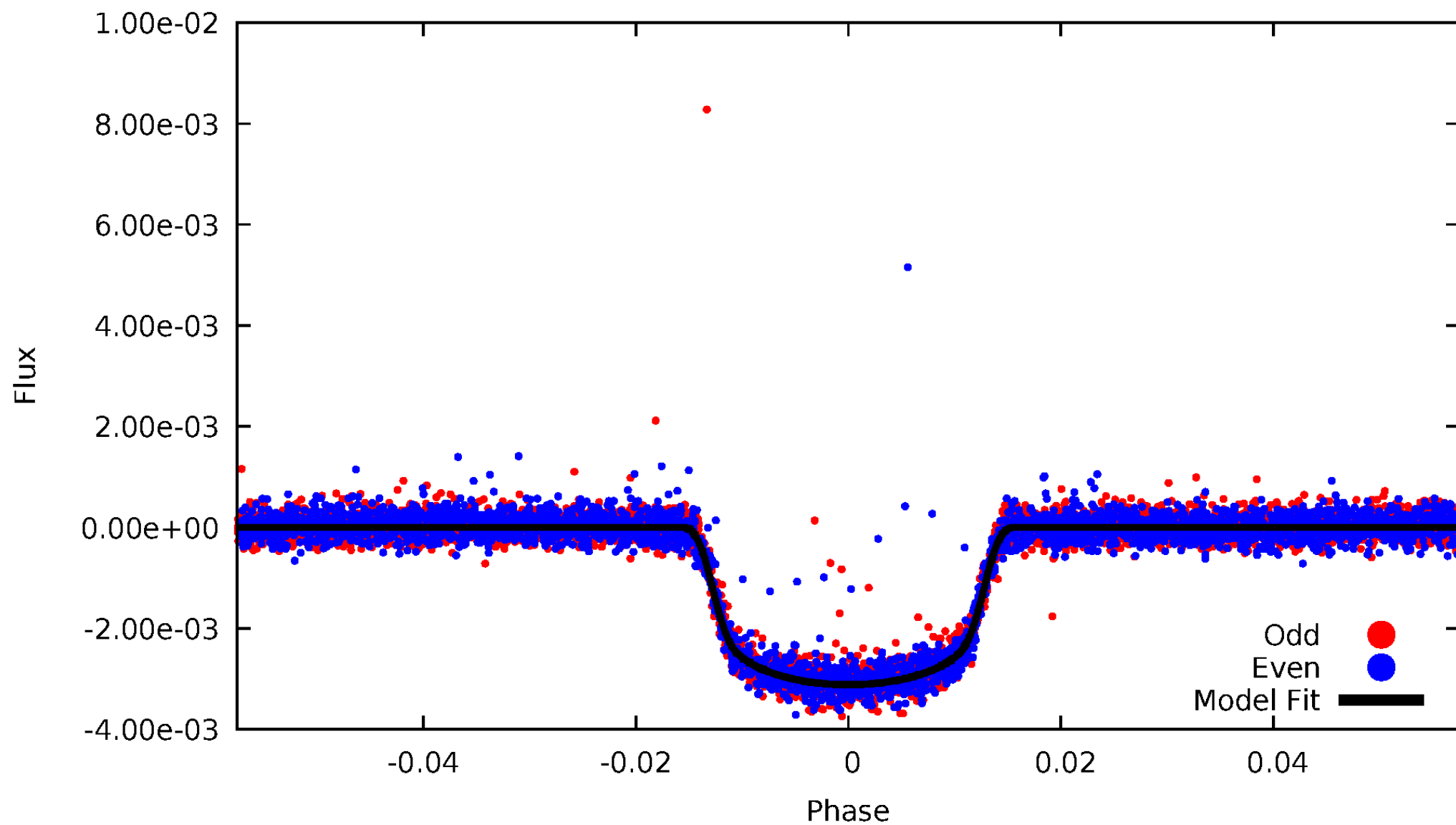


TCE 006305192-01



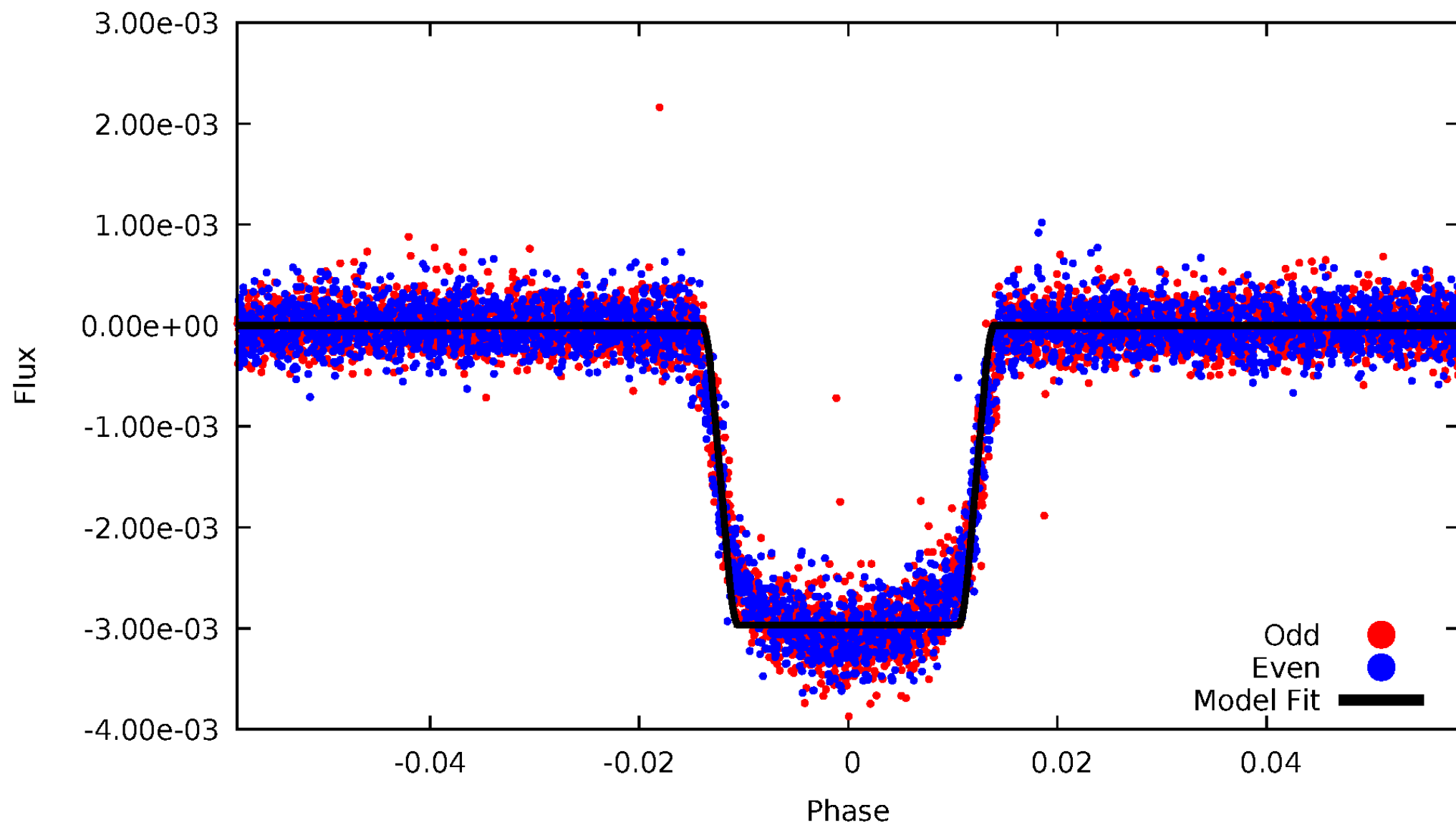
DV Odd/Even

TCE 006305192-01



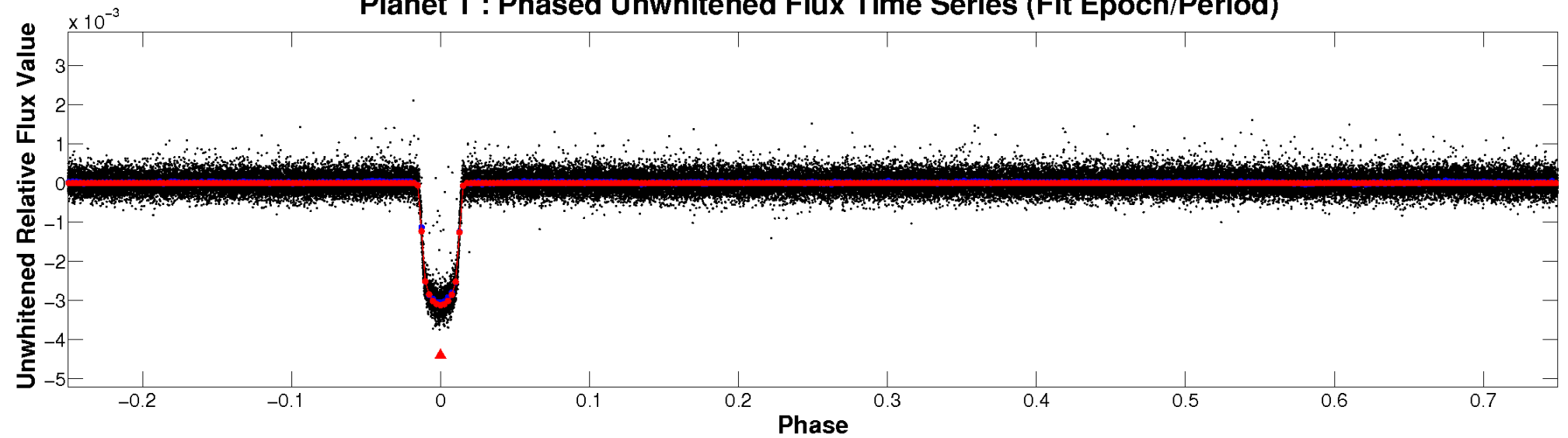
ALT Odd/Even

TCE 006305192-01

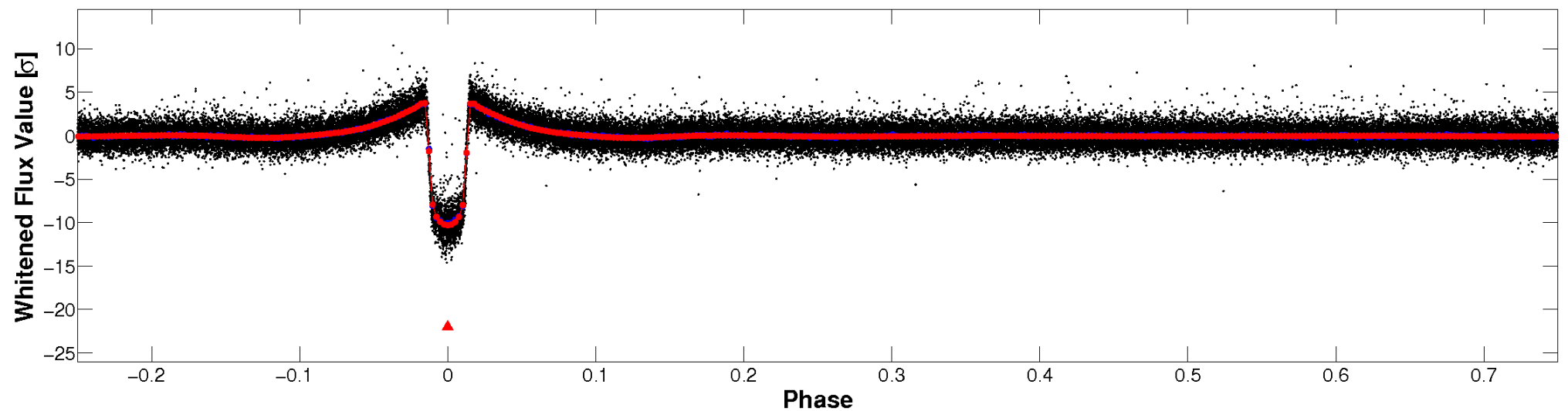


Non-Whitened Vs. Whitened Light Curve

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

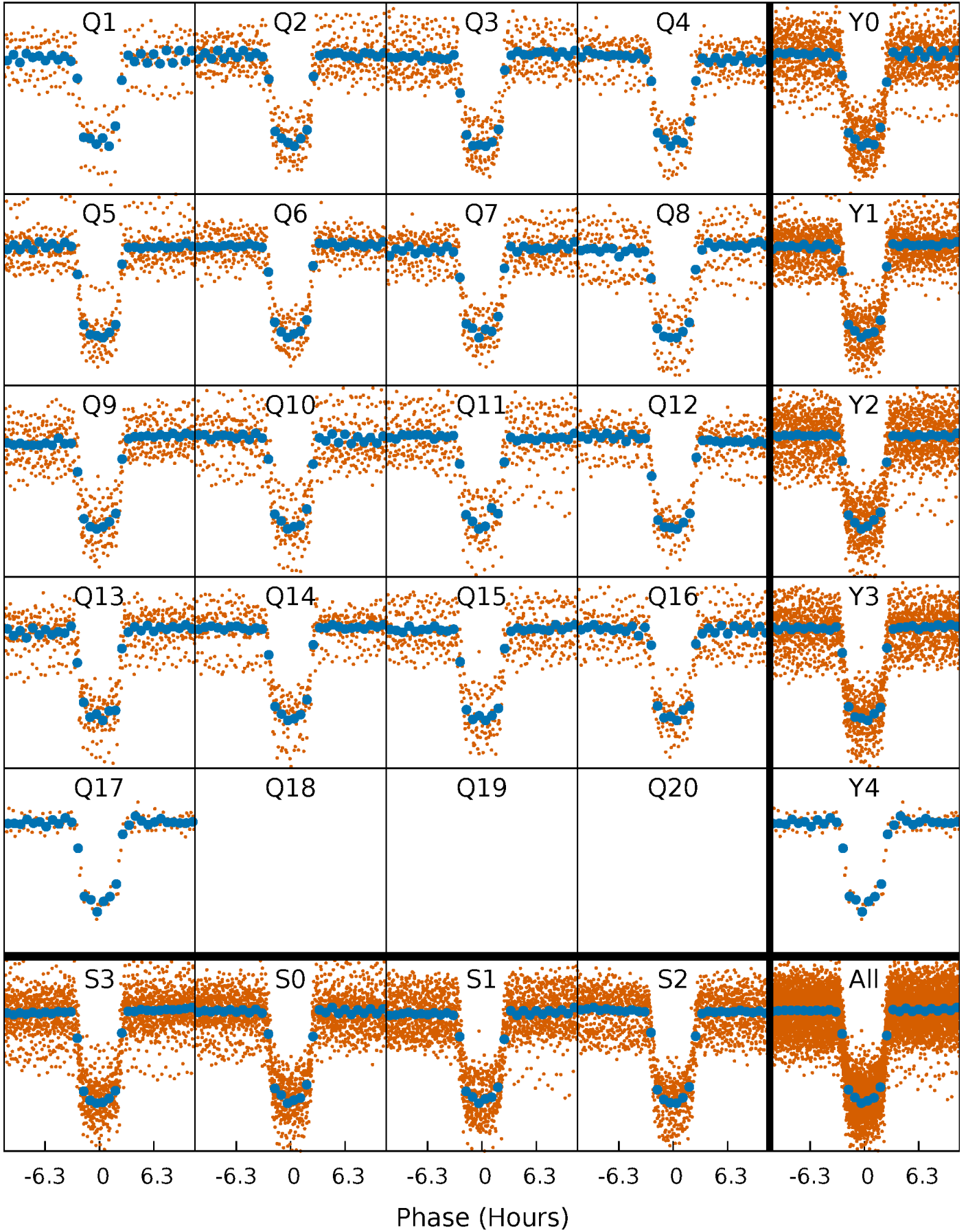


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



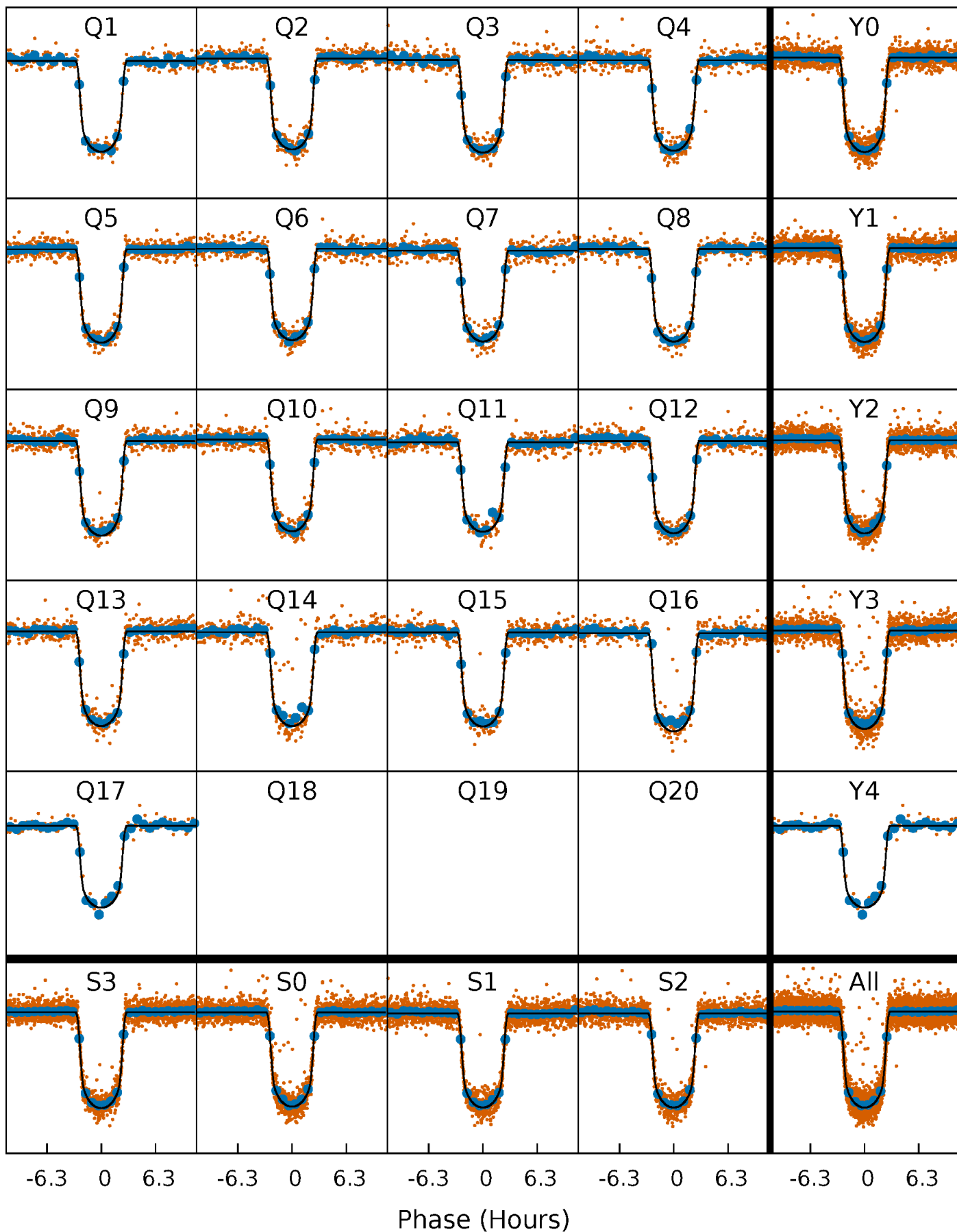
PDC Quarter-Phased Transit Curves

TCE 006305192-01 P= 8.025118 Days $T_0=132.468995$ (BKJD)



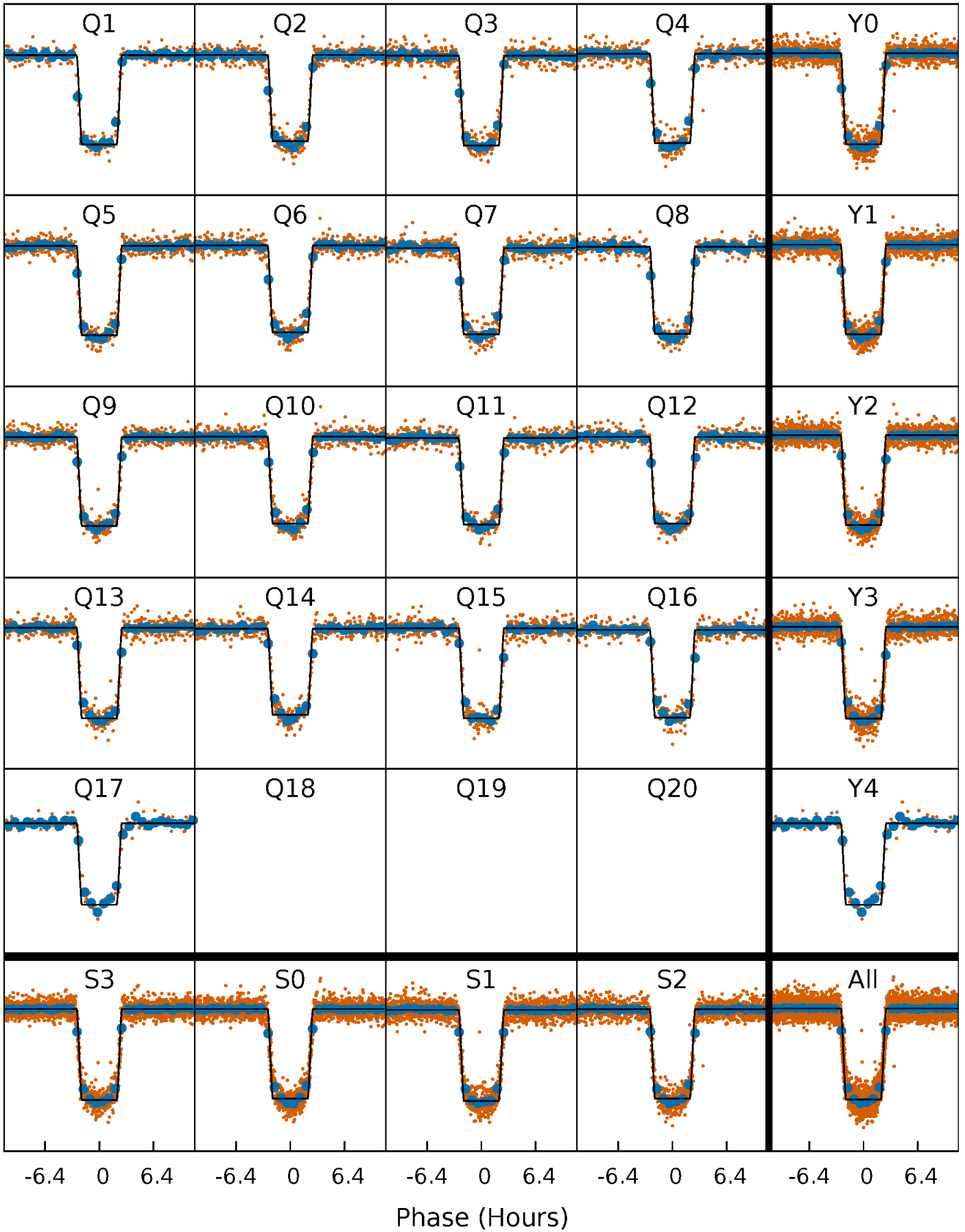
DV Quarter-Phased Transit Curves

TCE 006305192-01 P= 8.025118 Days $T_0=132.468995$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

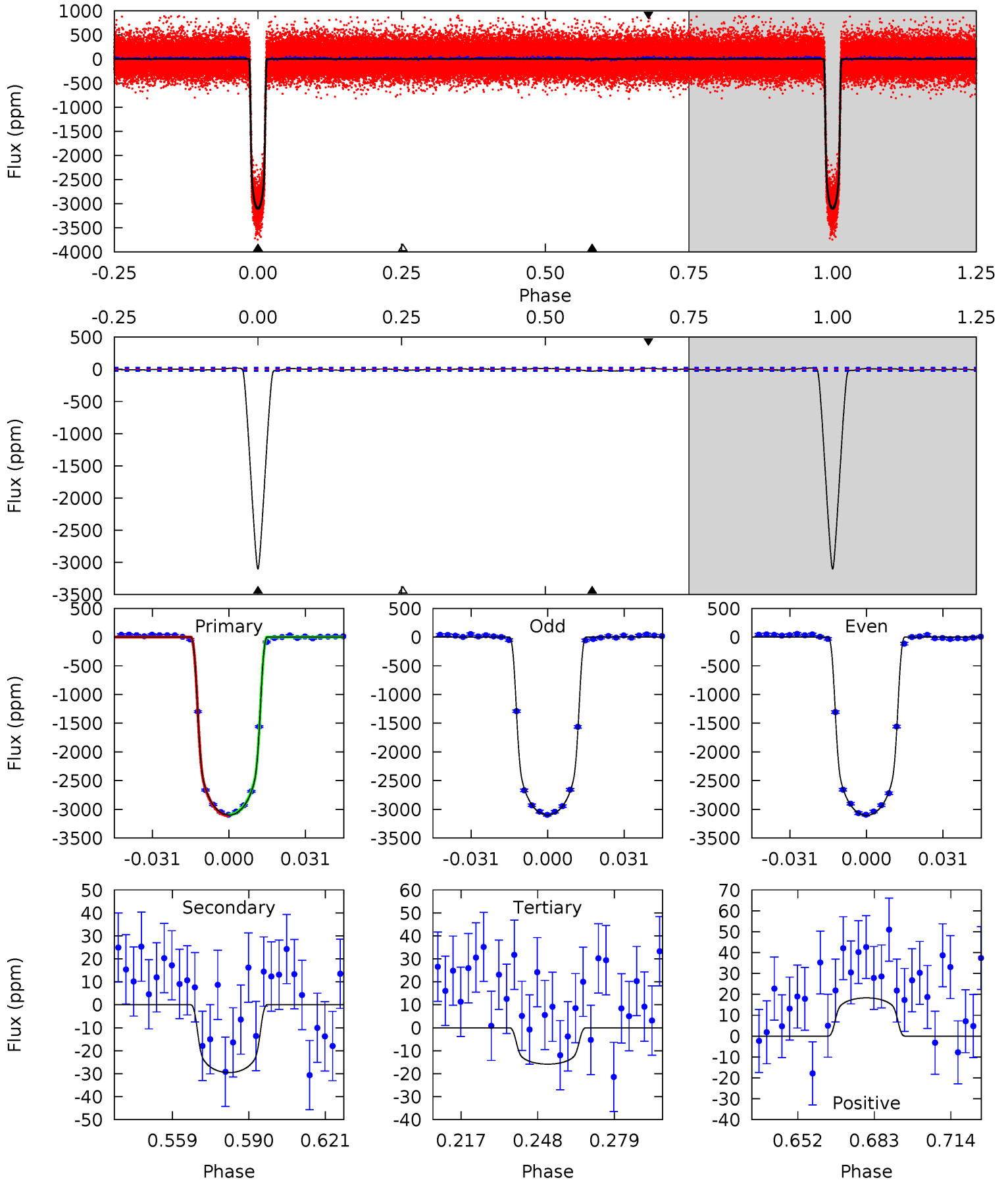
TCE 006305192-01 P= 8.025056 Days $T_0=132.474571$ (BKJD)



DV Model-Shift Uniqueness Test

006305192-01, P = 8.025118 Days, E = 124.443877 Days

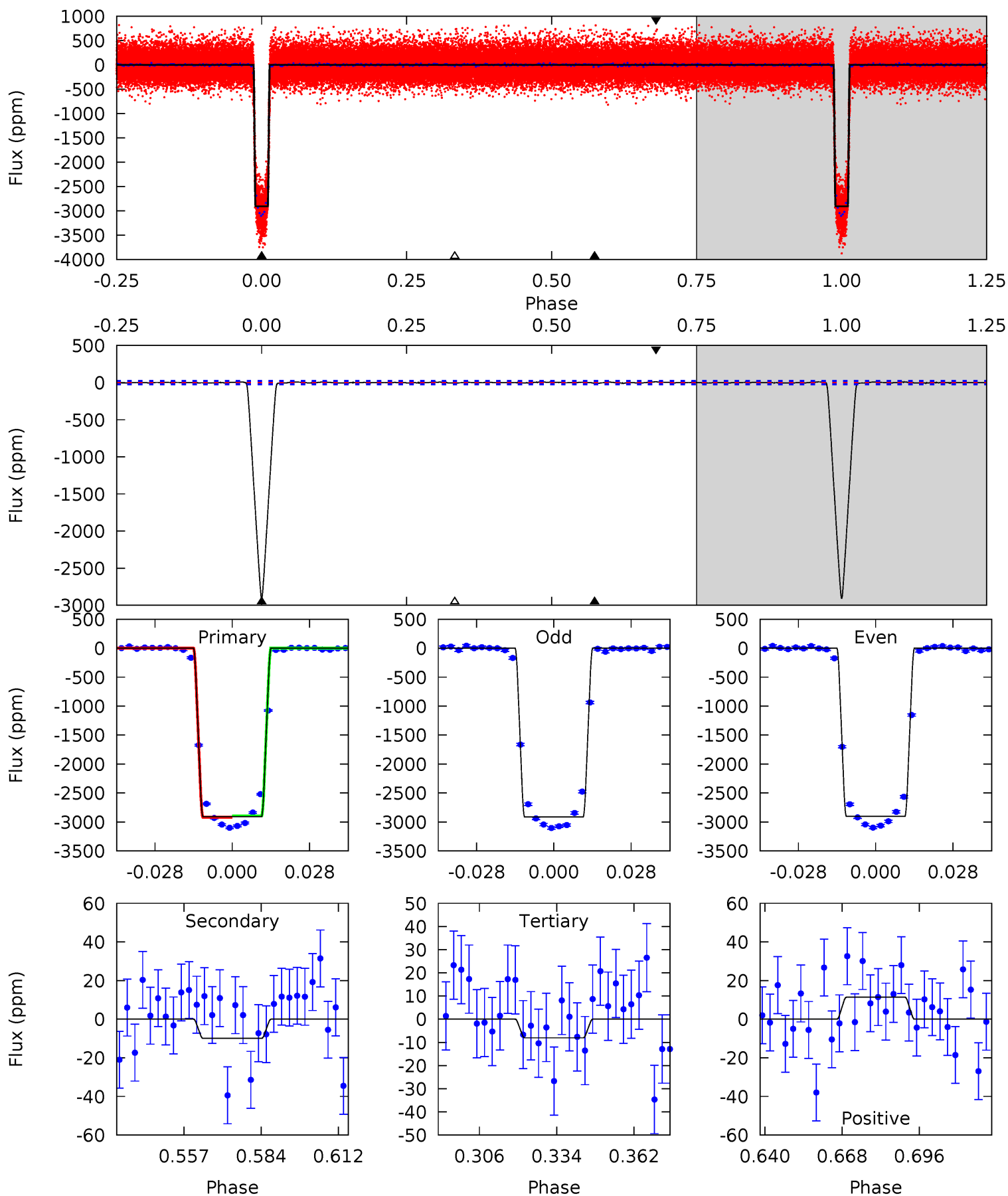
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
648.8	6.18	3.32	3.83	4.80	2.16	1.77	645.4	644.9	2.86	2.35	0.68	0.99	0.01	1.96



Alt Model-Shift Uniqueness Test

006305192-01, P = 8.025056 Days, E = 124.449515 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
619.7	2.12	1.72	2.42	4.83	2.20	0.81	618.0	617.3	0.40	-0.30	1.09	1.00	0.00	2.39



Stellar Parameters For KIC 006305192

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6002^{+120}_{-120}	$4.196^{+0.162}_{-0.108}$	$0.000^{+0.150}_{-0.150}$	$1.369^{+0.241}_{-0.241}$	$1.073^{+0.102}_{-0.082}$	$0.589^{+0.482}_{-0.194}$
	+2%/-2%	+4%/-3%	+inf%/-inf%	+18%/-18%	+10%/-8%	+82%/-33%
Source	SPE57	SPE57	SPE57	DSEP		

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

Secondary Eclipse Parameters for KIC 006305192-01 / KOI 0219.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-30 ± 5	$8.07^{+0.85}_{-0.83}$	1516^{+82}_{-78}	2612^{+68}_{-69}	$1.606^{+0.446}_{-0.359}$
Alt.	-10 ± 5	$8.07^{+0.78}_{-0.81}$	1516^{+78}_{-79}	2150^{+181}_{-3881}	$0.547^{+0.298}_{-0.273}$

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 $A_{obs} \gg 1.0$

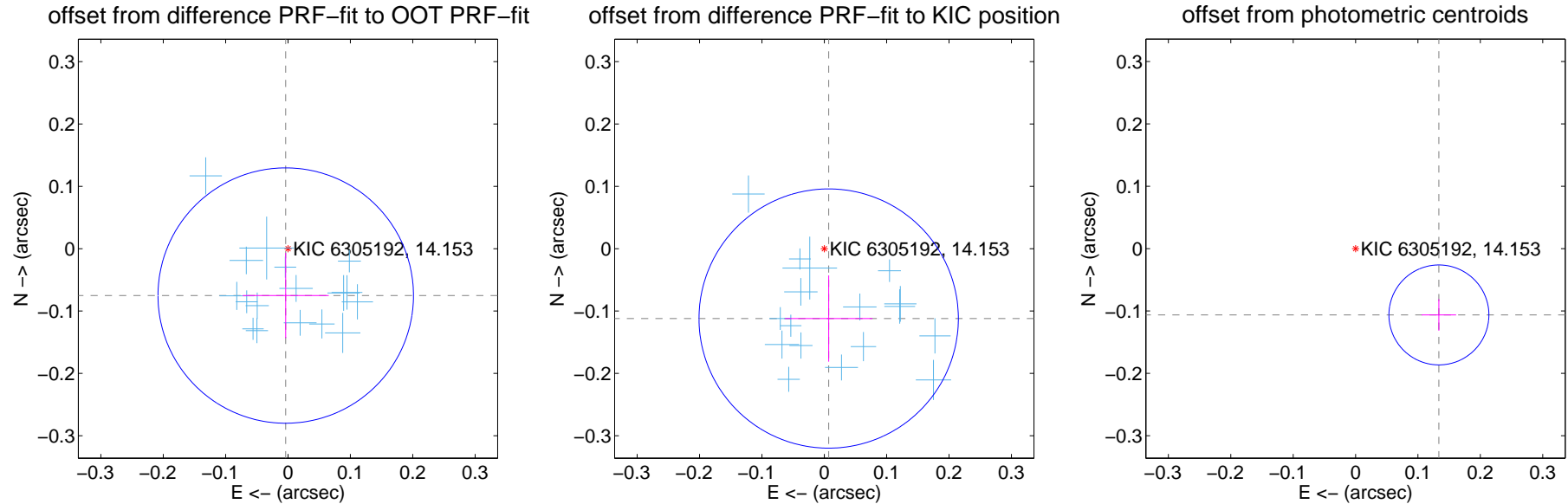
DV Centroid Data

Supplemental centroid analysis for 006305192-01. Kepler magnitude: 14.15. Transit SNR 389.69

There are 17 quarters with good PRF difference image offsets

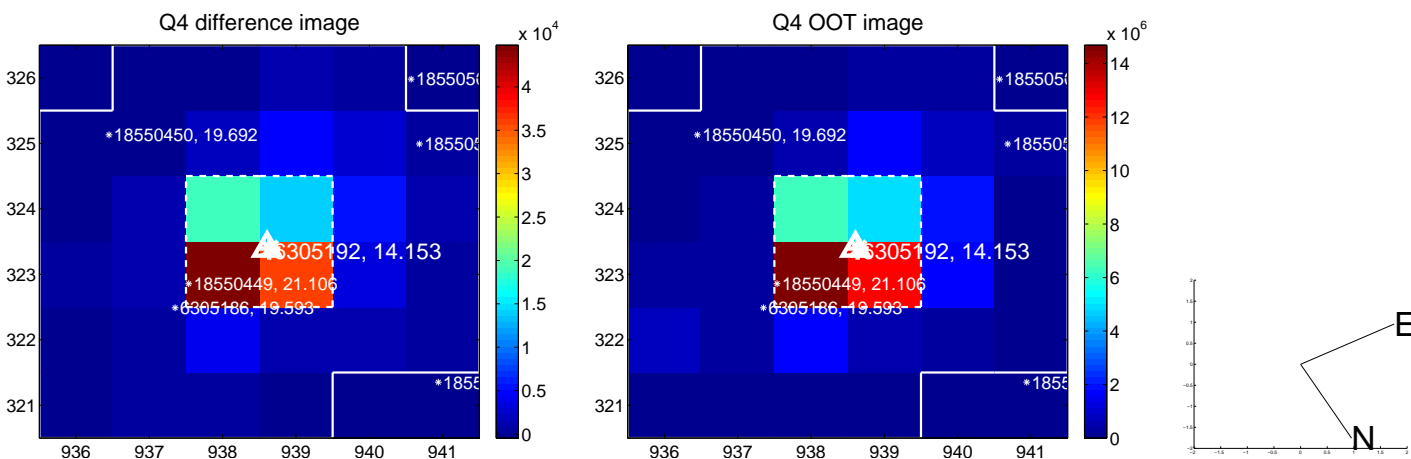
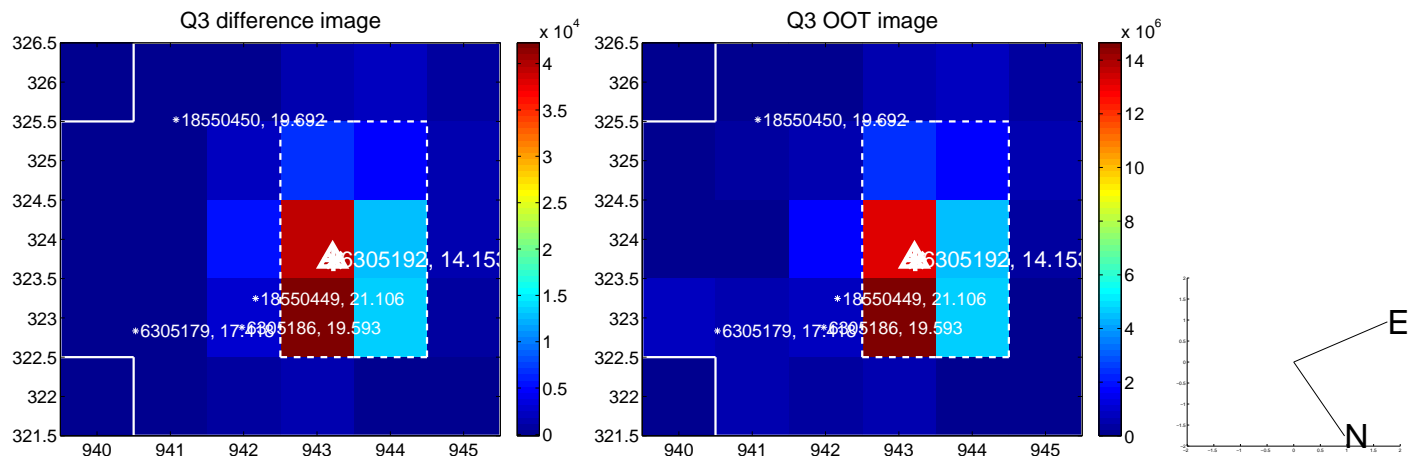
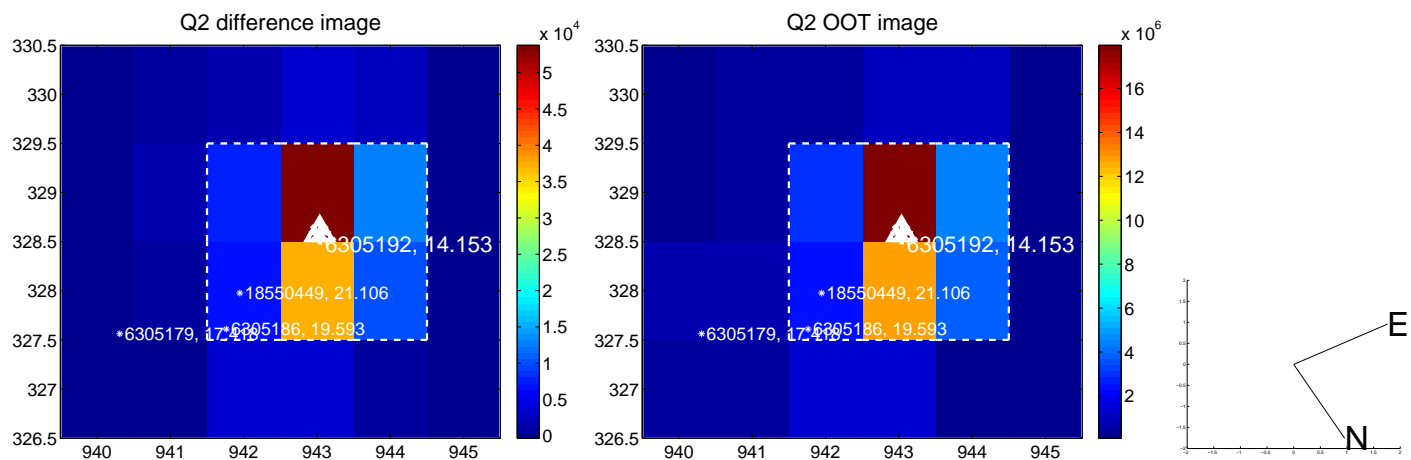
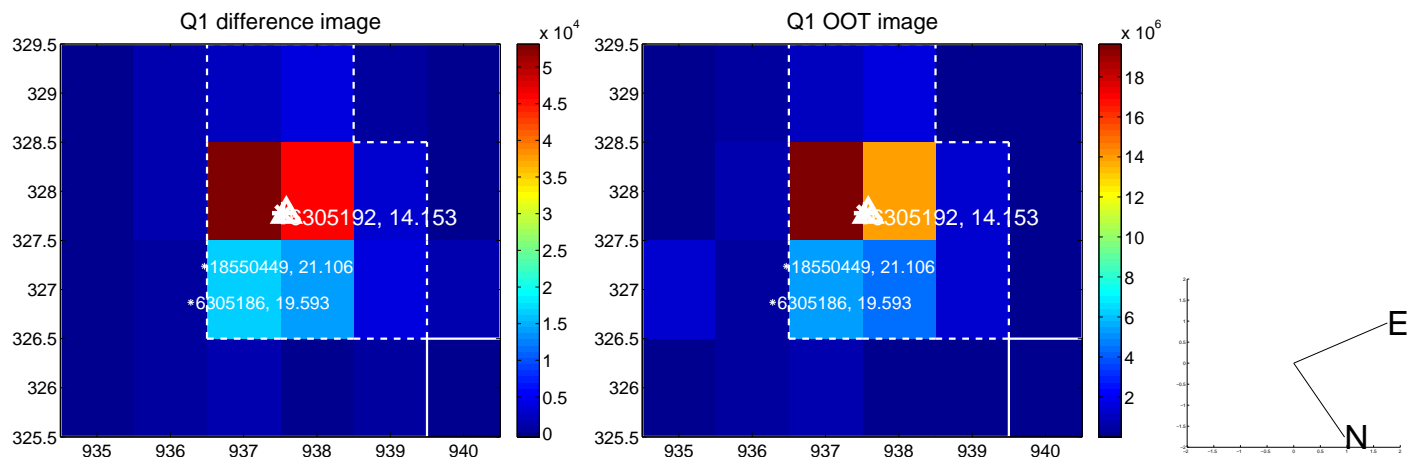
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.075 ± 0.068	1.10	0.004 ± 0.069	-0.075 ± 0.068
PRF-fit source offset from KIC position	0.112 ± 0.069	1.62	-0.007 ± 0.070	-0.112 ± 0.069
photometric centroid source offset	0.17 ± 0.03	6.39	-0.13 ± 0.03	-0.11 ± 0.03

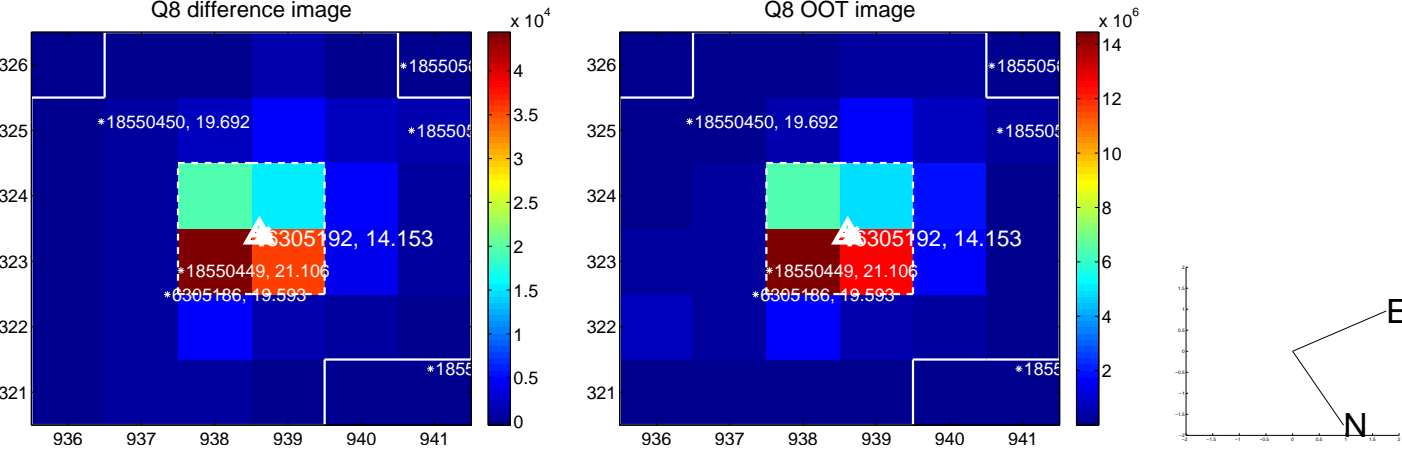
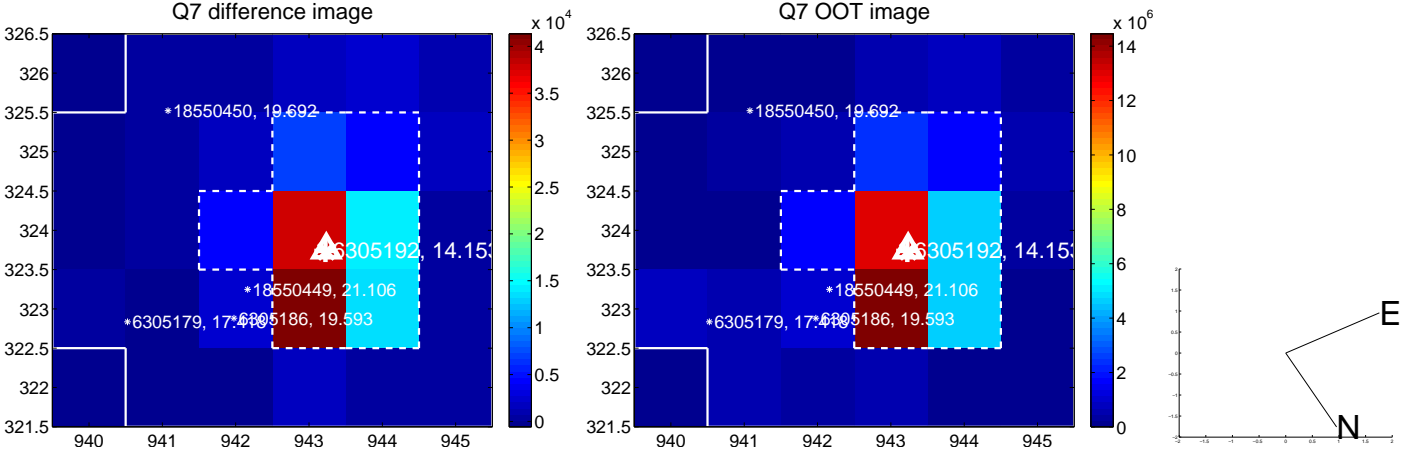
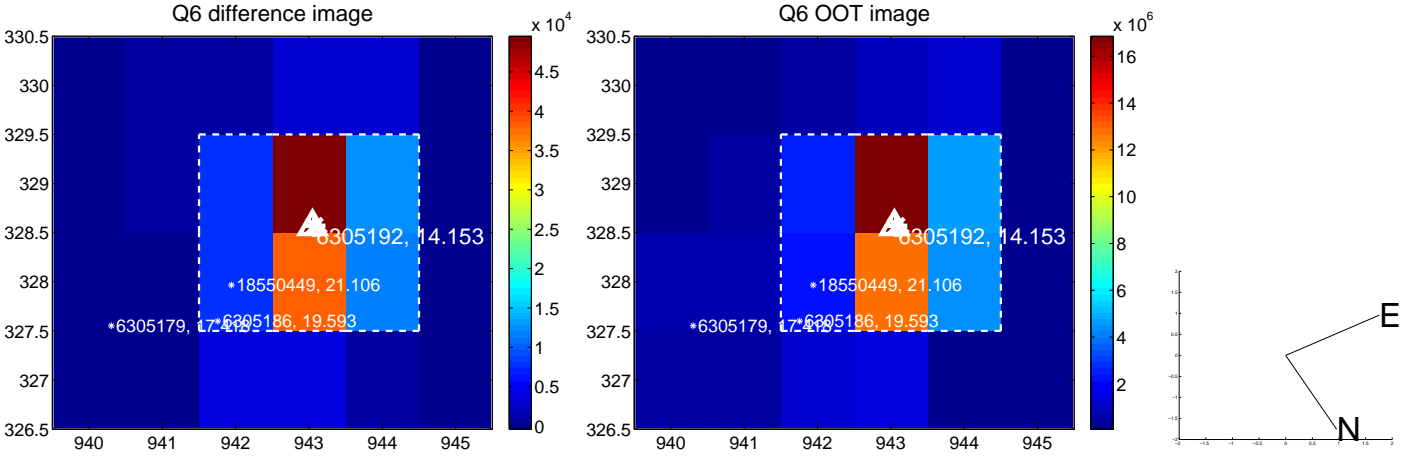
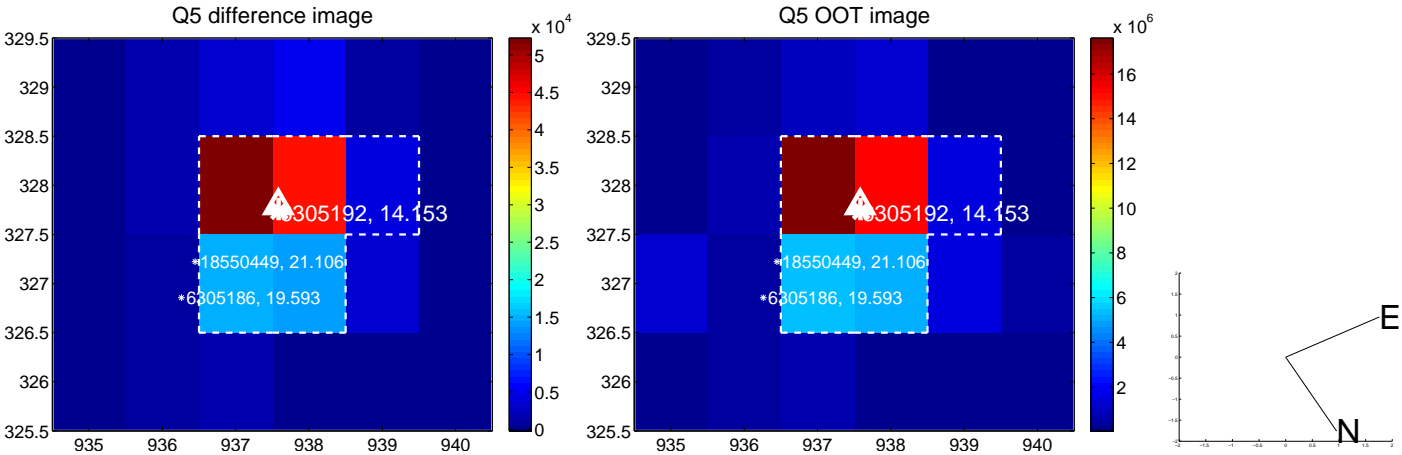


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

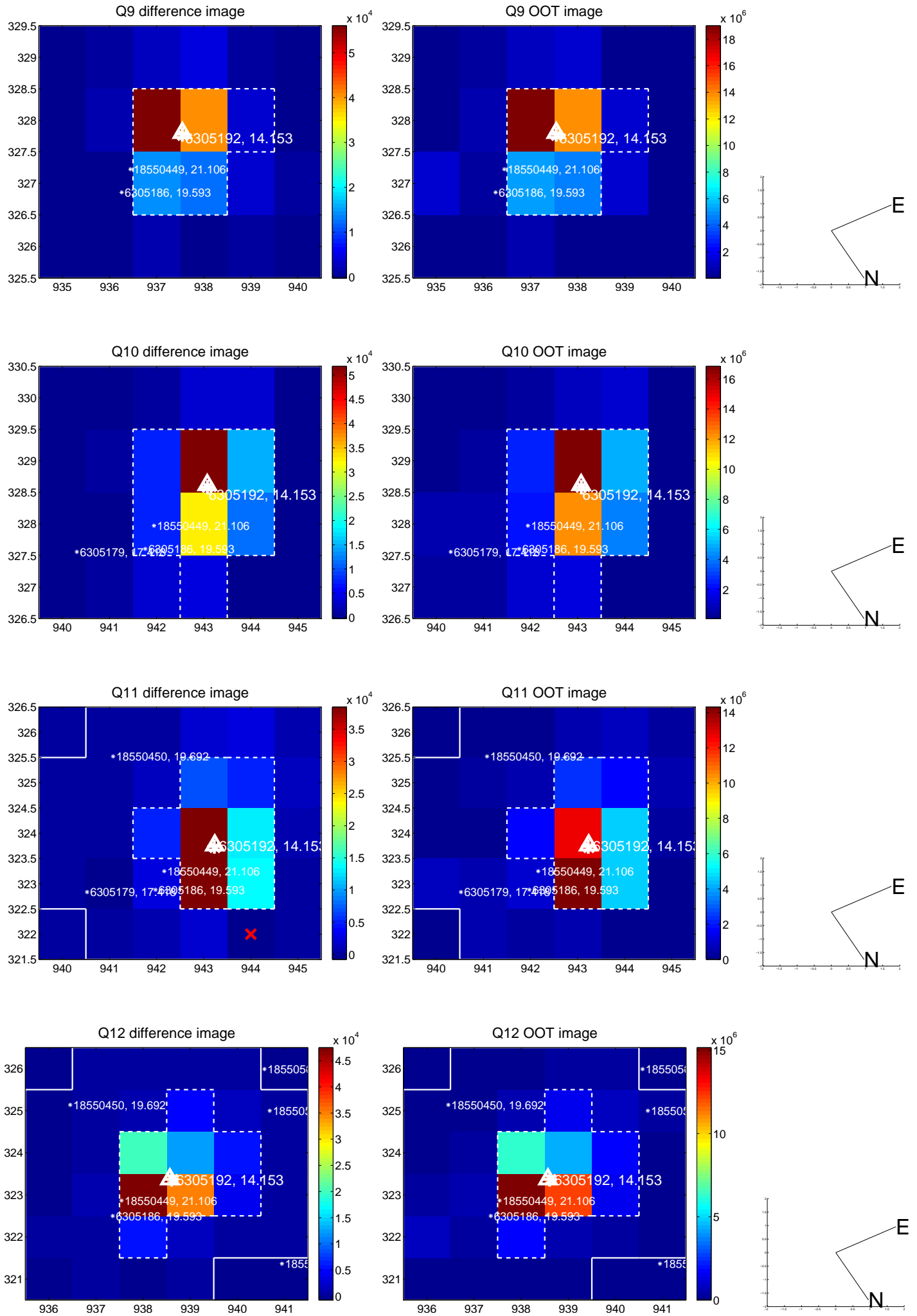
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



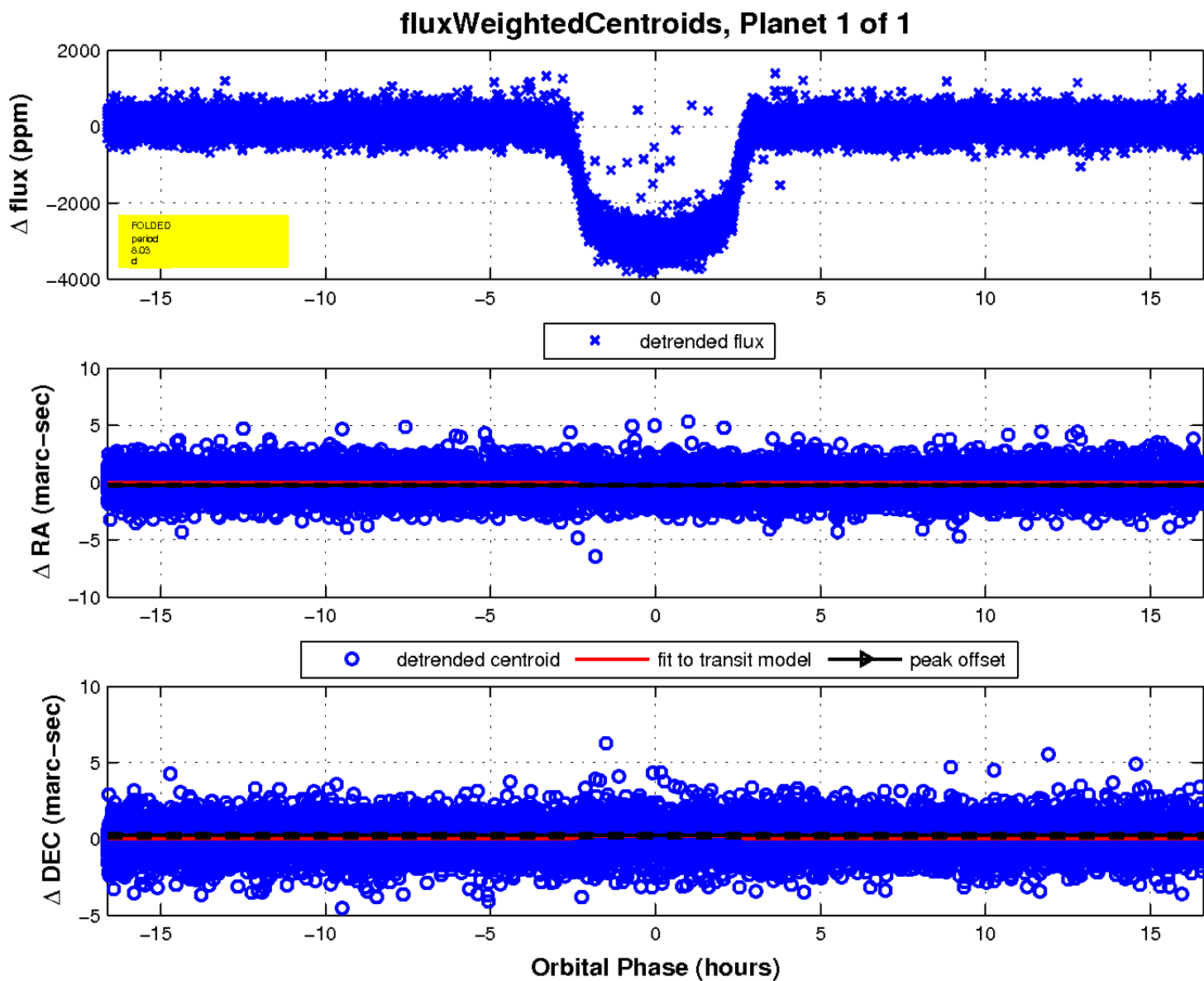
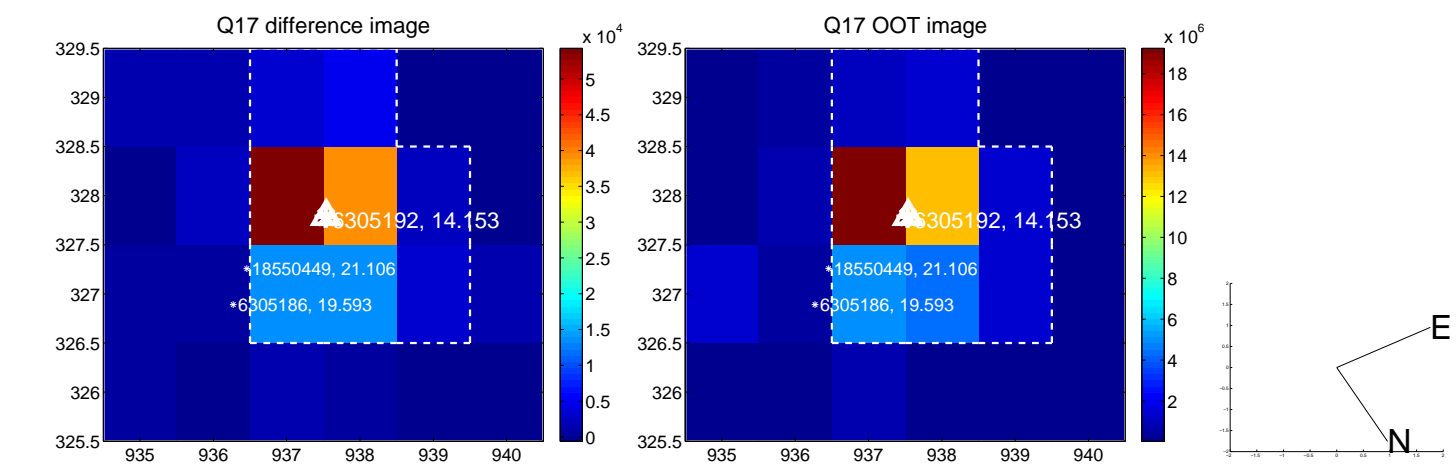
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

