

KIC 011923284

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})
011923284-01	OBS	2026.01	2.757978	131.879043	210.2	2.191	33.0	43.1	1.00	5919	1.71	745.48

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011923284-01	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.

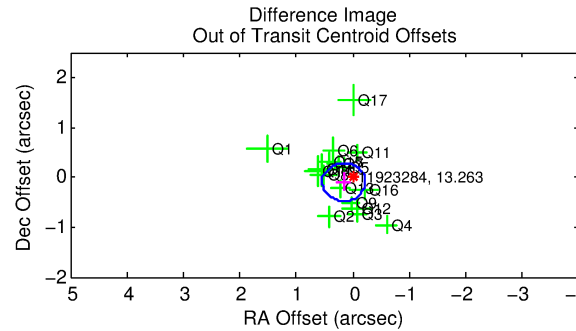
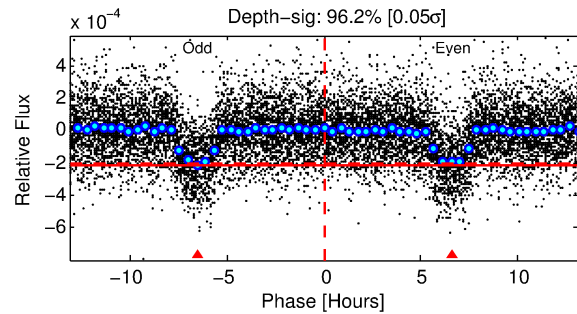
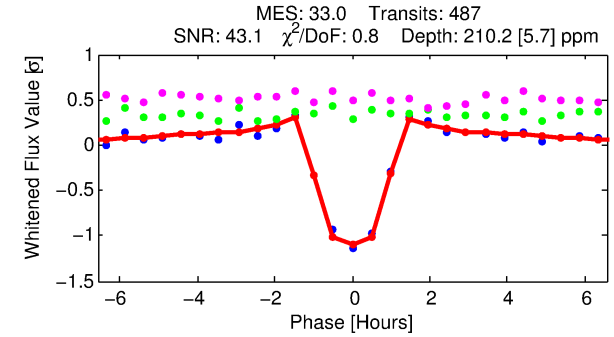
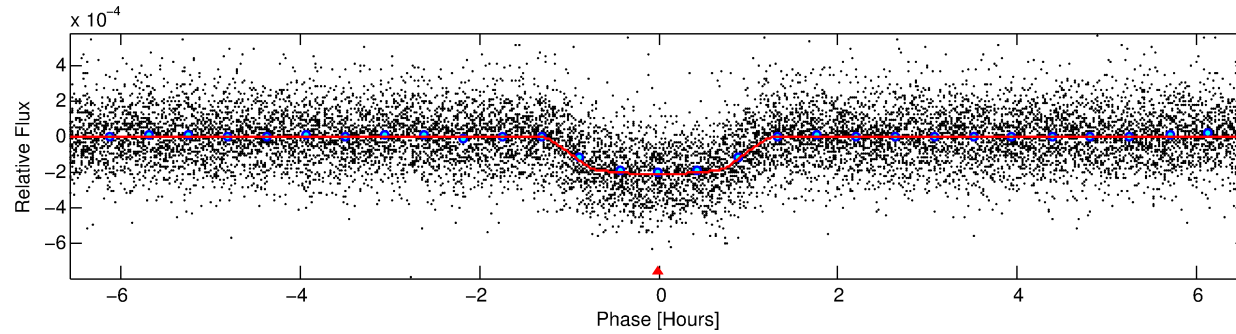
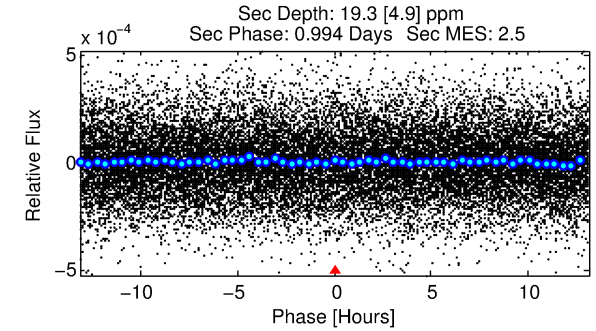
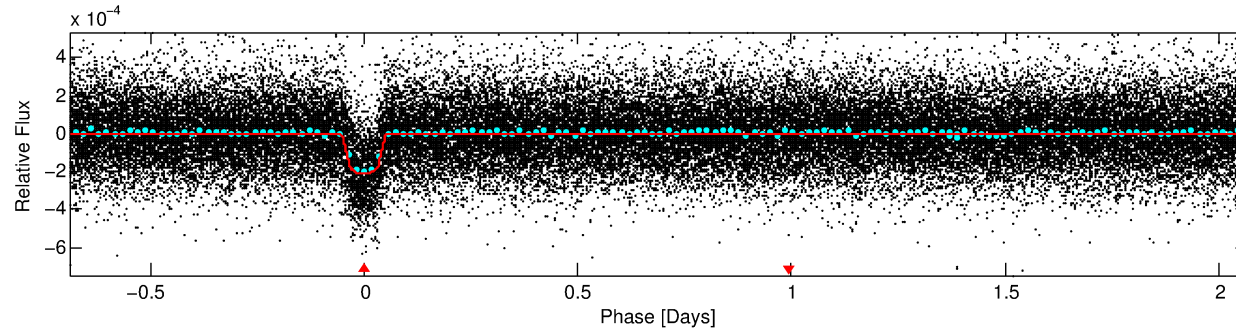
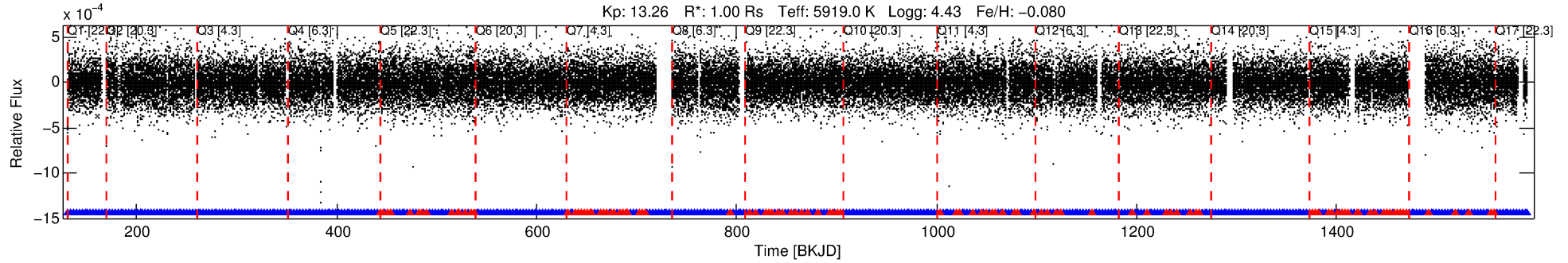
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011923284-01

No Significant Match Found

DV One-Page Summary

KIC: 11923284 Candidate: 1 of 1 Period: 2.758 d
KOI: K02026.01 Corr: 0.978



DV Fit Results:

Period = 2.75798 [0.00000] d
Epoch = 131.8790 [0.0007] BKJD
Rp/R* = 0.0157 [0.0021]
a/R* = 4.71 [3.00]
b = 0.90 [0.15]
Seff = 745.48 [165.77]
Teq = 1332 [74] K
Rp = 1.71 [0.34] Re
a = 0.0384 [0.0051] AU
Ag = 5.36 [2.27] [1.92σ]
Teffp = 3134 [299] K [5.85σ]

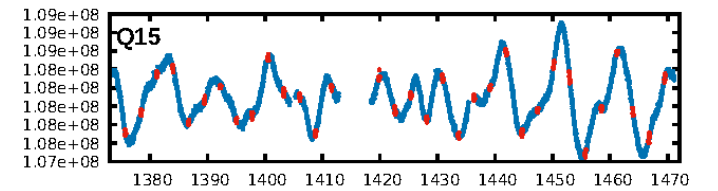
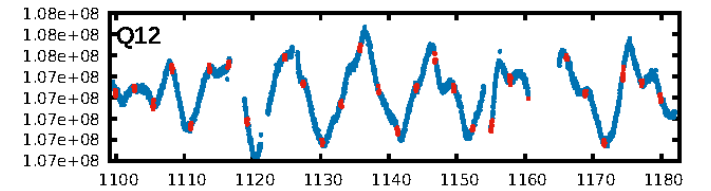
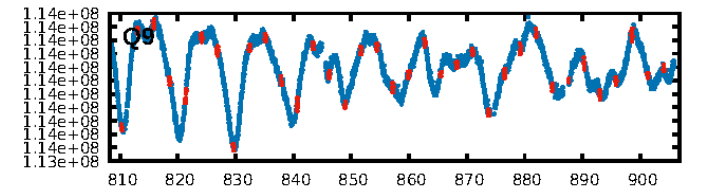
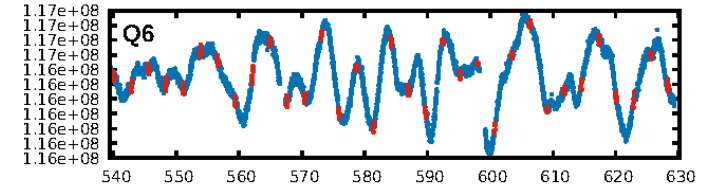
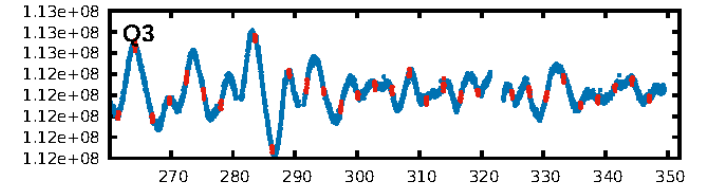
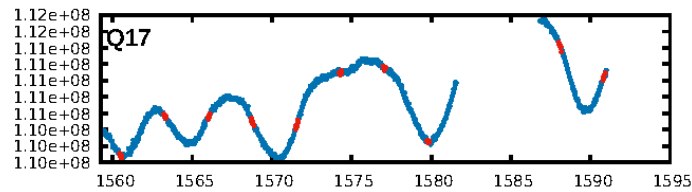
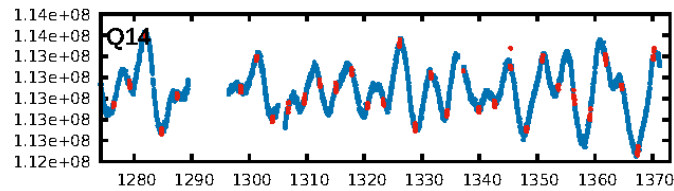
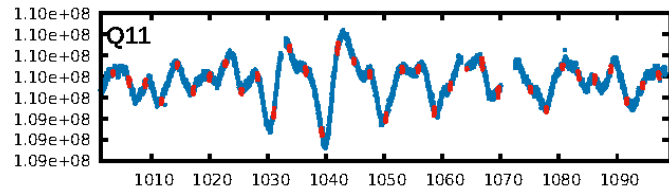
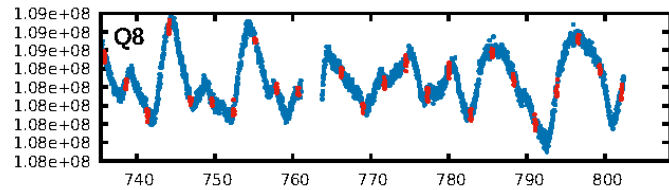
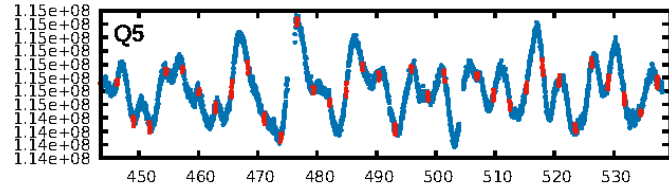
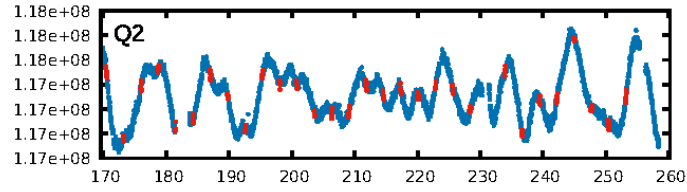
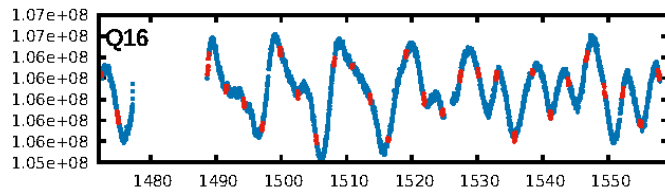
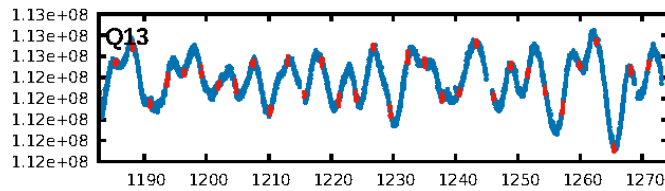
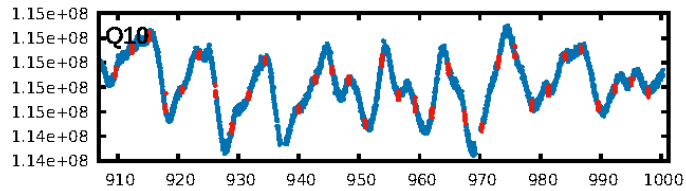
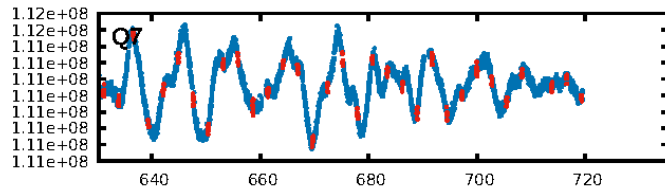
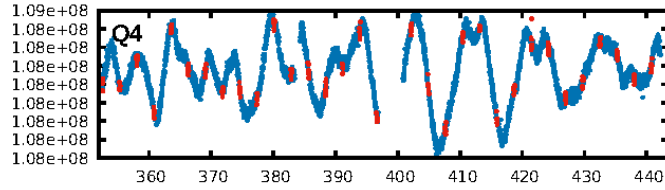
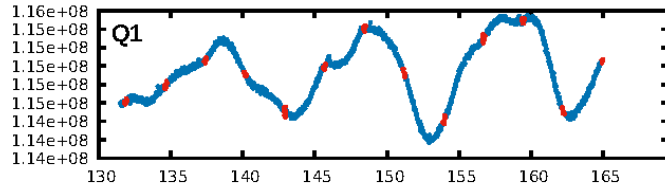
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.14e-220
RollingBand-fgt: 0.78 [362/464]
GhostDiagnostic-chr: 3.719
Centroid-sig: 0.2%
Centroid-so: 0.653 arcsec [2.64σ]
OotOffset-rm: 0.191 arcsec [1.50σ]
KicOffset-rm: 0.227 arcsec [1.81σ]
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]

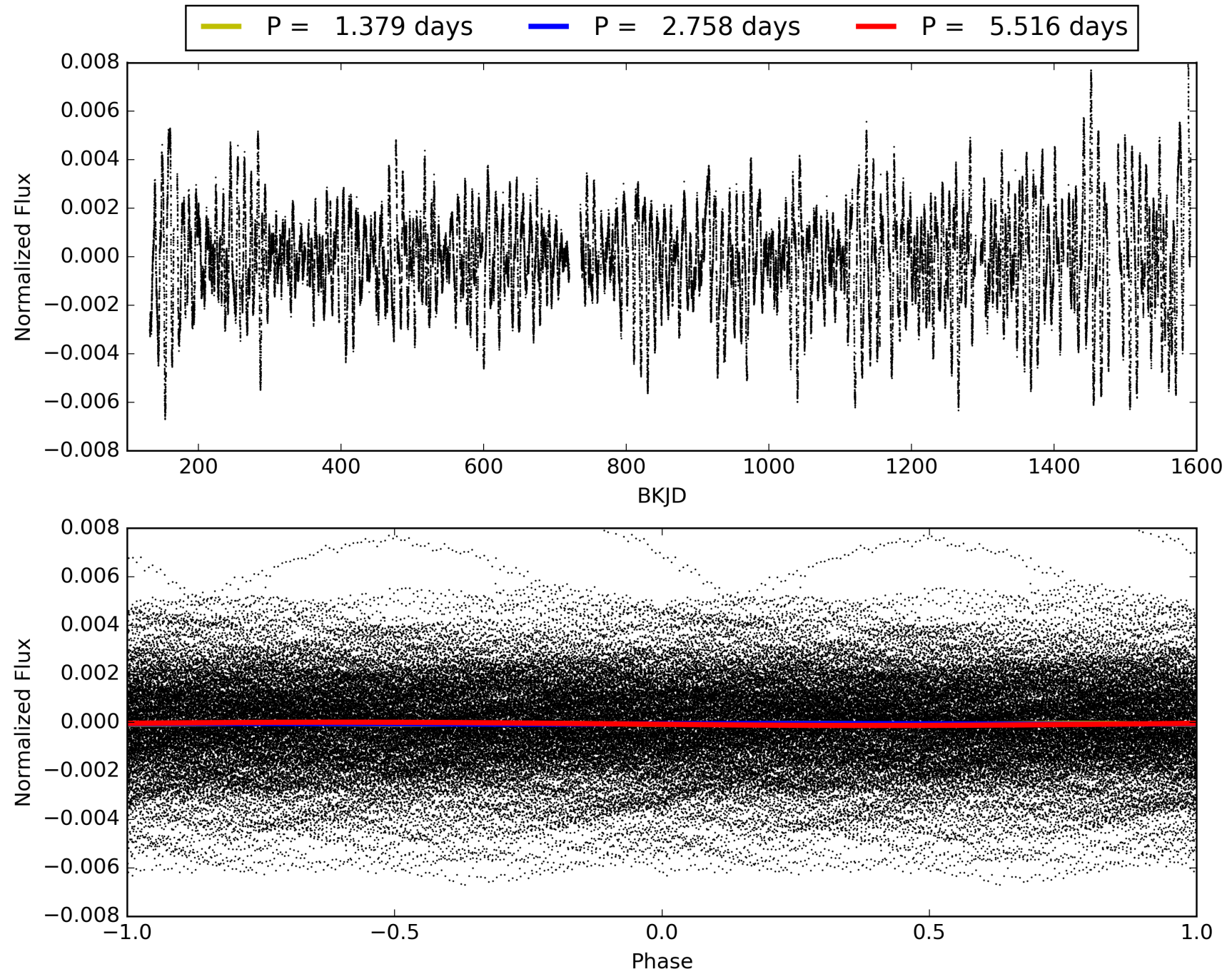
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:13:50 Z

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

TCE 011923284-01, PDC Light Curves

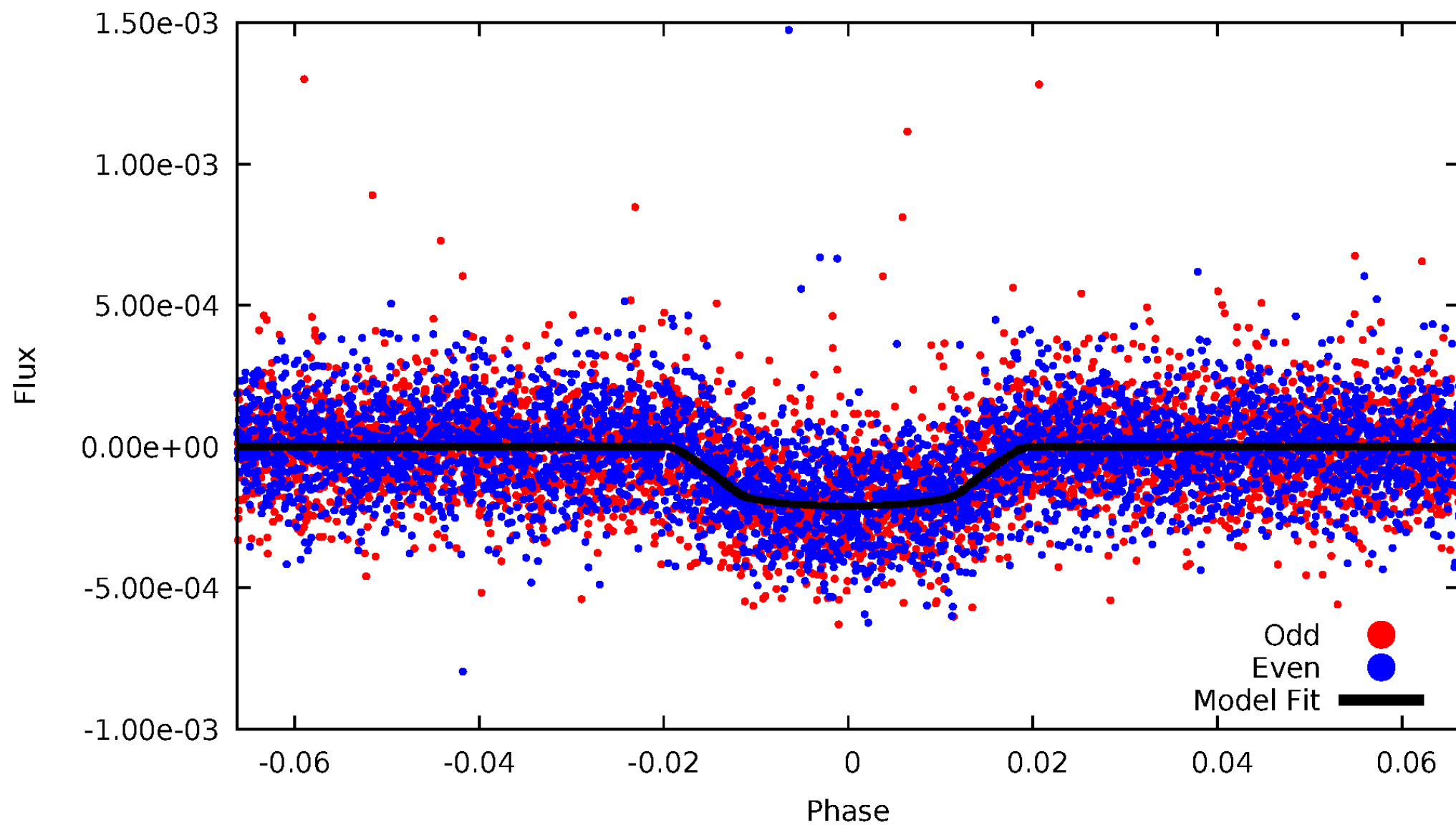


TCE 011923284-01



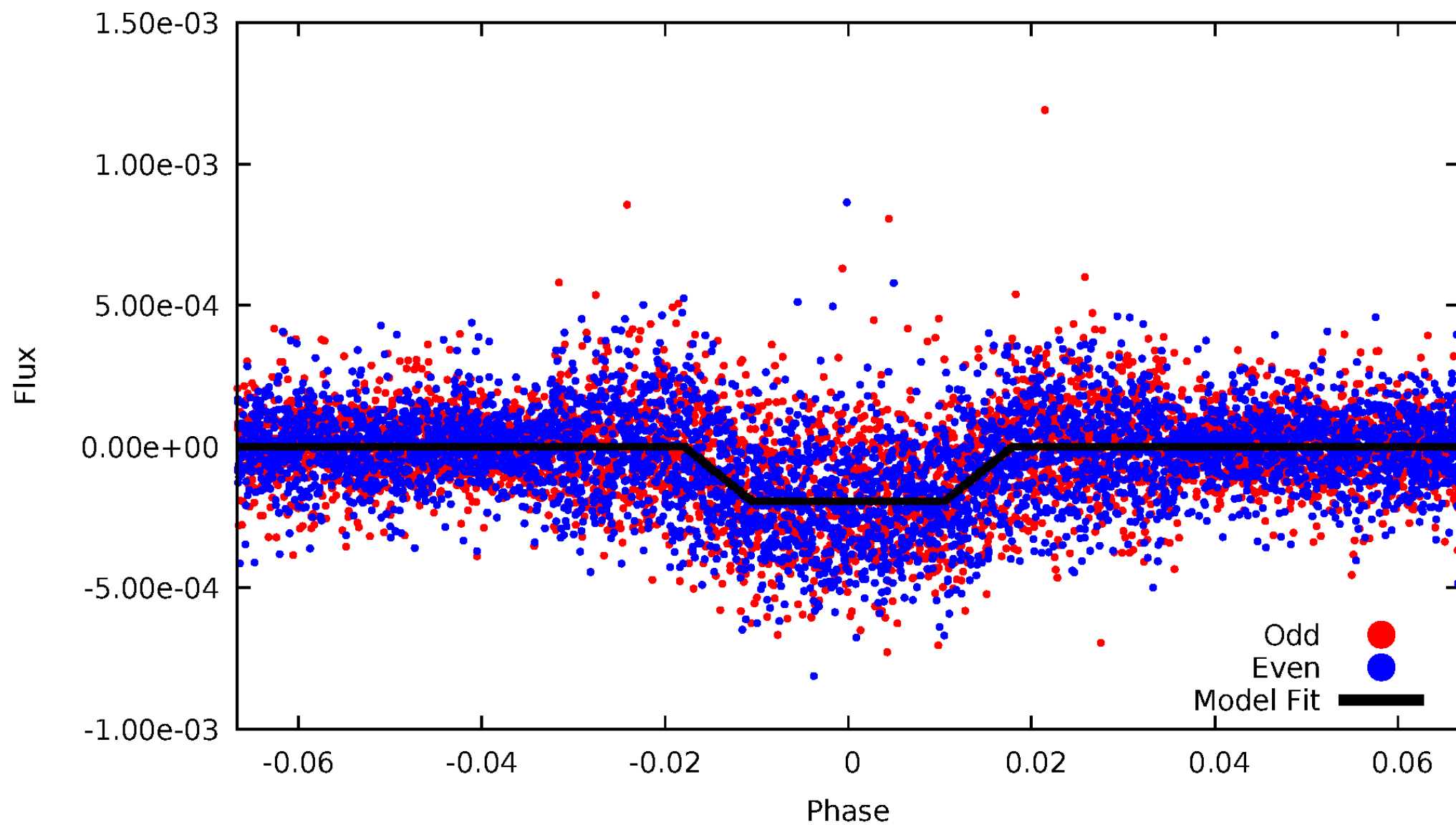
DV Odd/Even

TCE 011923284-01

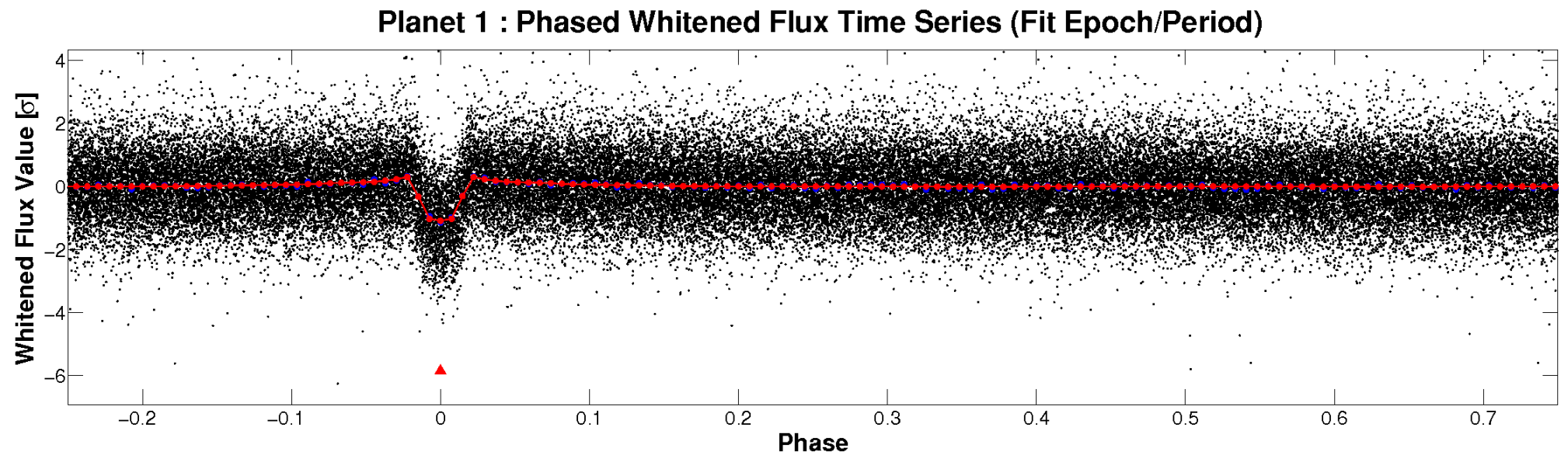
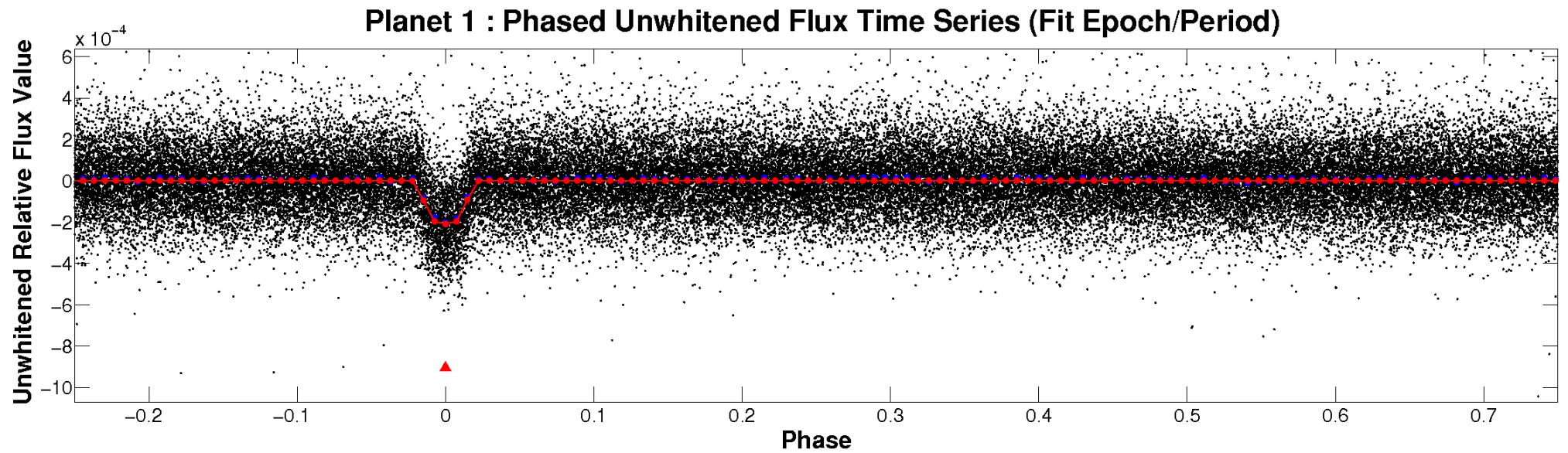


ALT Odd/Even

TCE 011923284-01

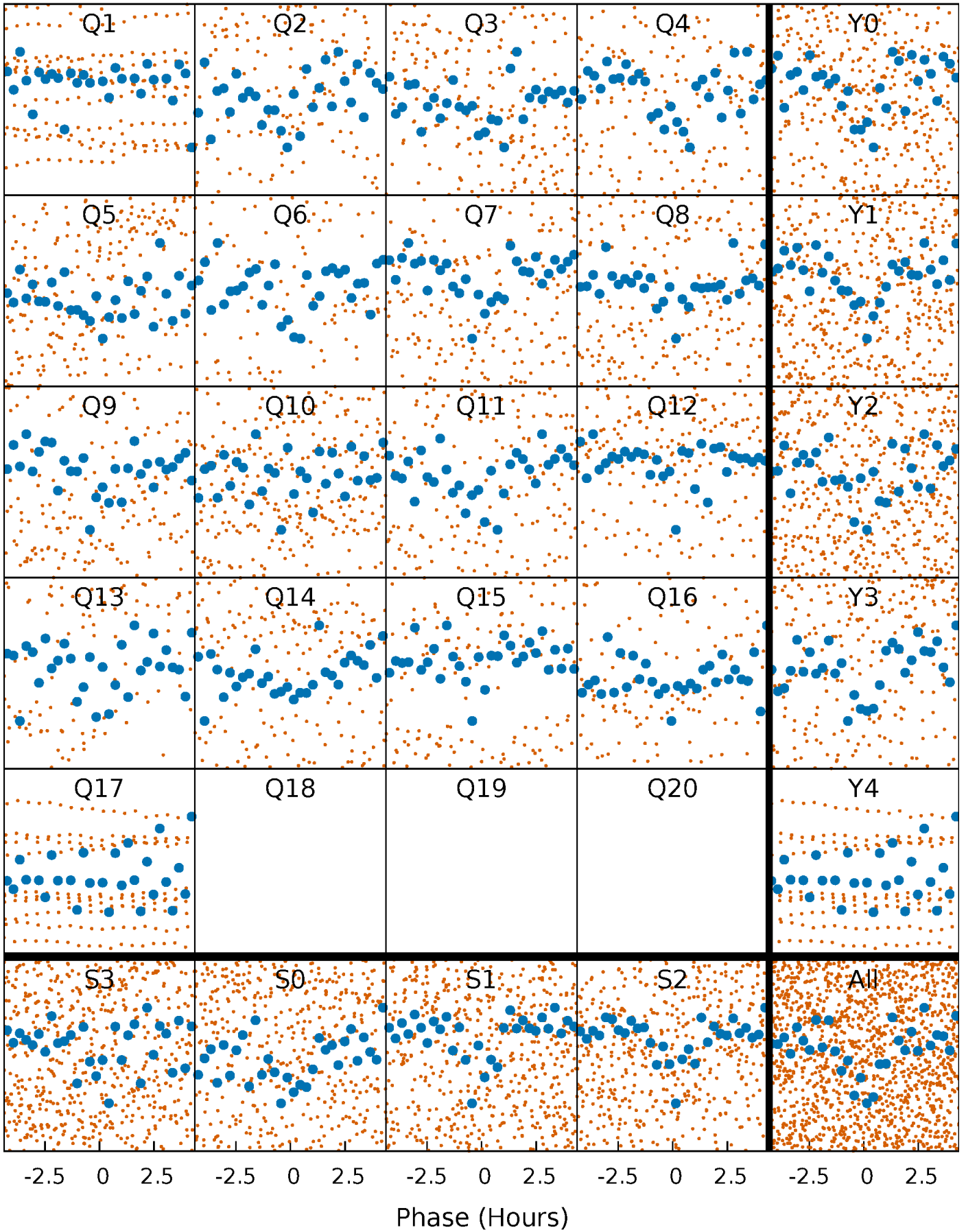


Non-Whitened Vs. Whitened Light Curve



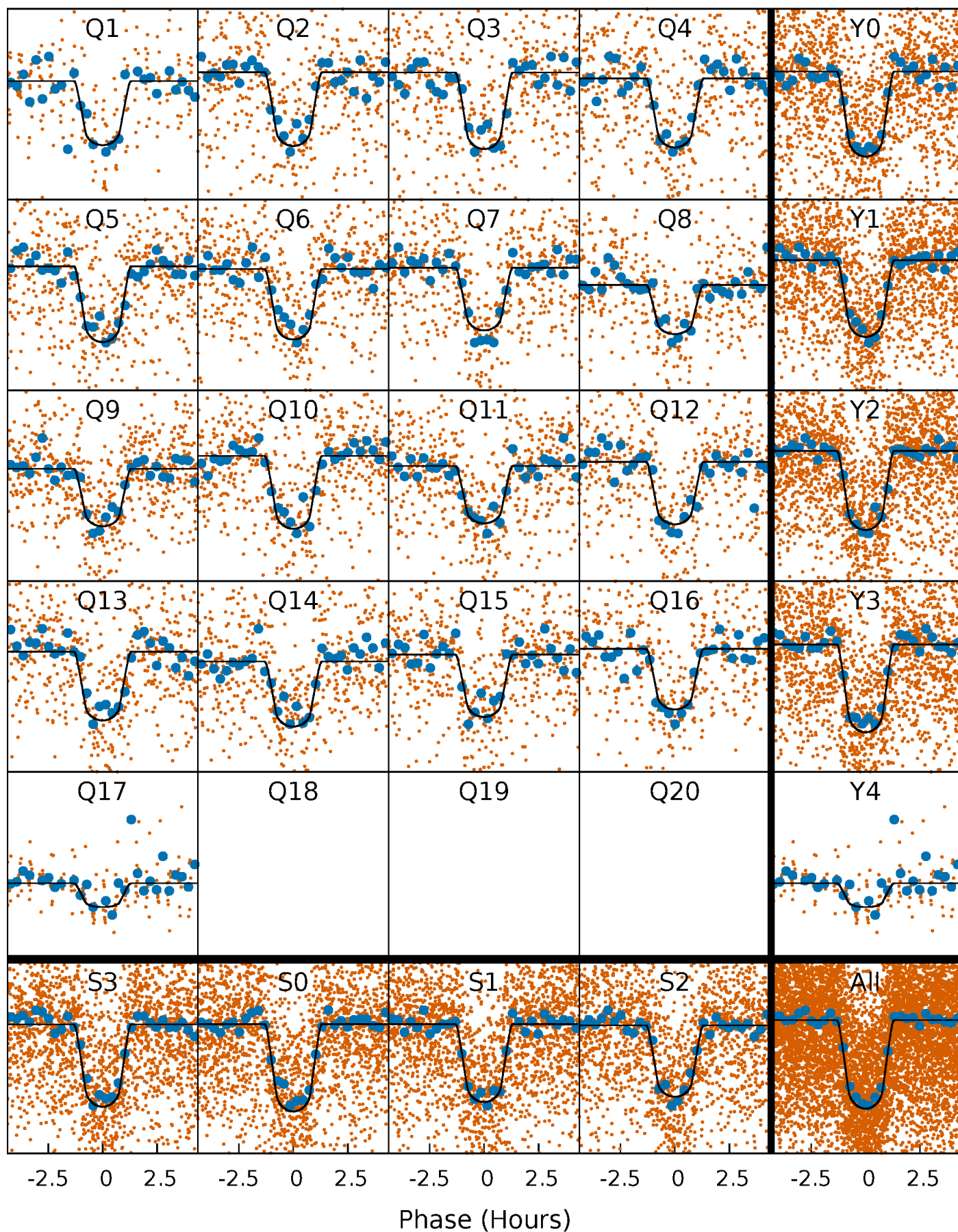
PDC Quarter-Phased Transit Curves

TCE 011923284-01 P= 2.757978 Days $T_0=131.879043$ (BKJD)



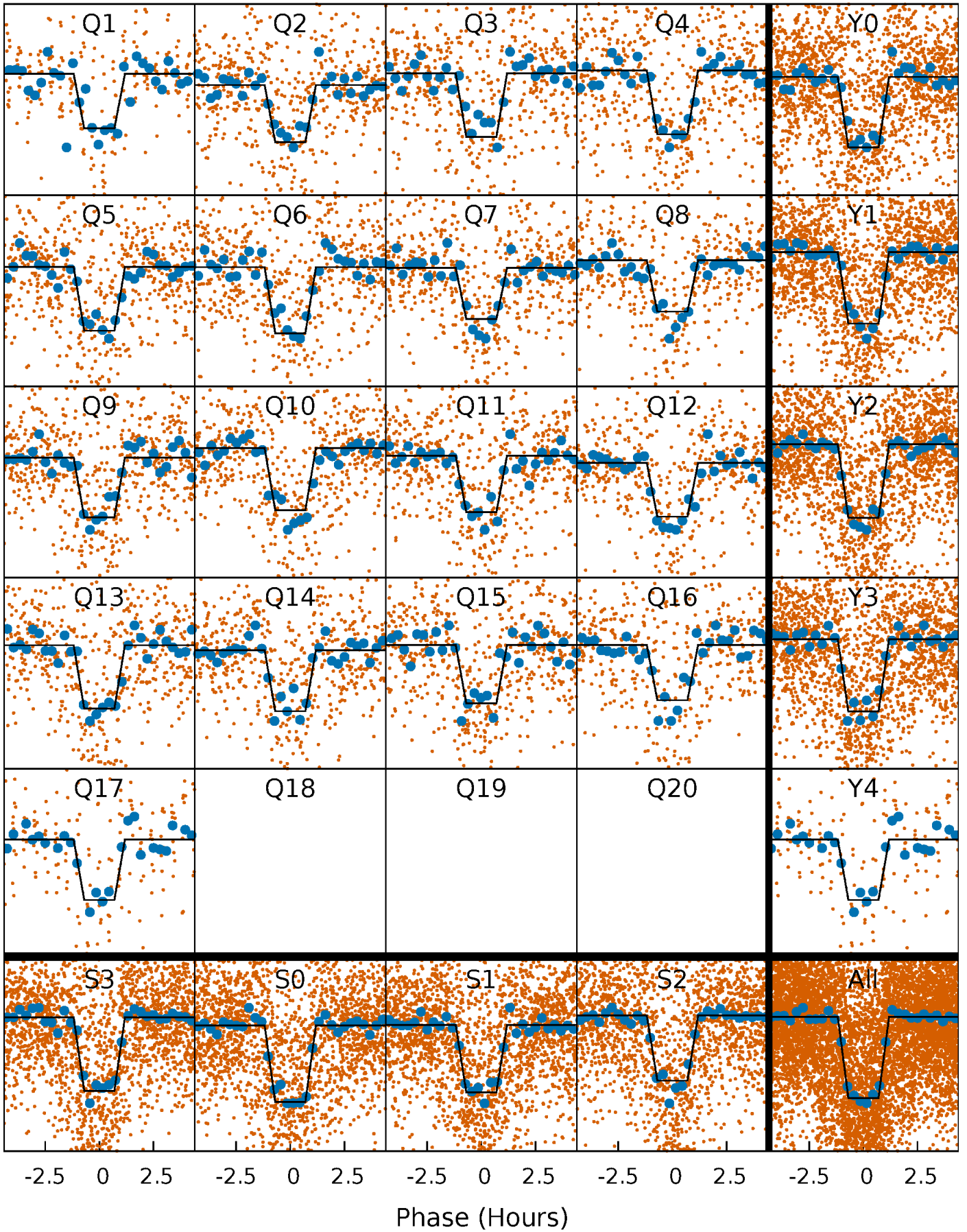
DV Quarter-Phased Transit Curves

TCE 011923284-01 P= 2.757978 Days $T_0=131.879043$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

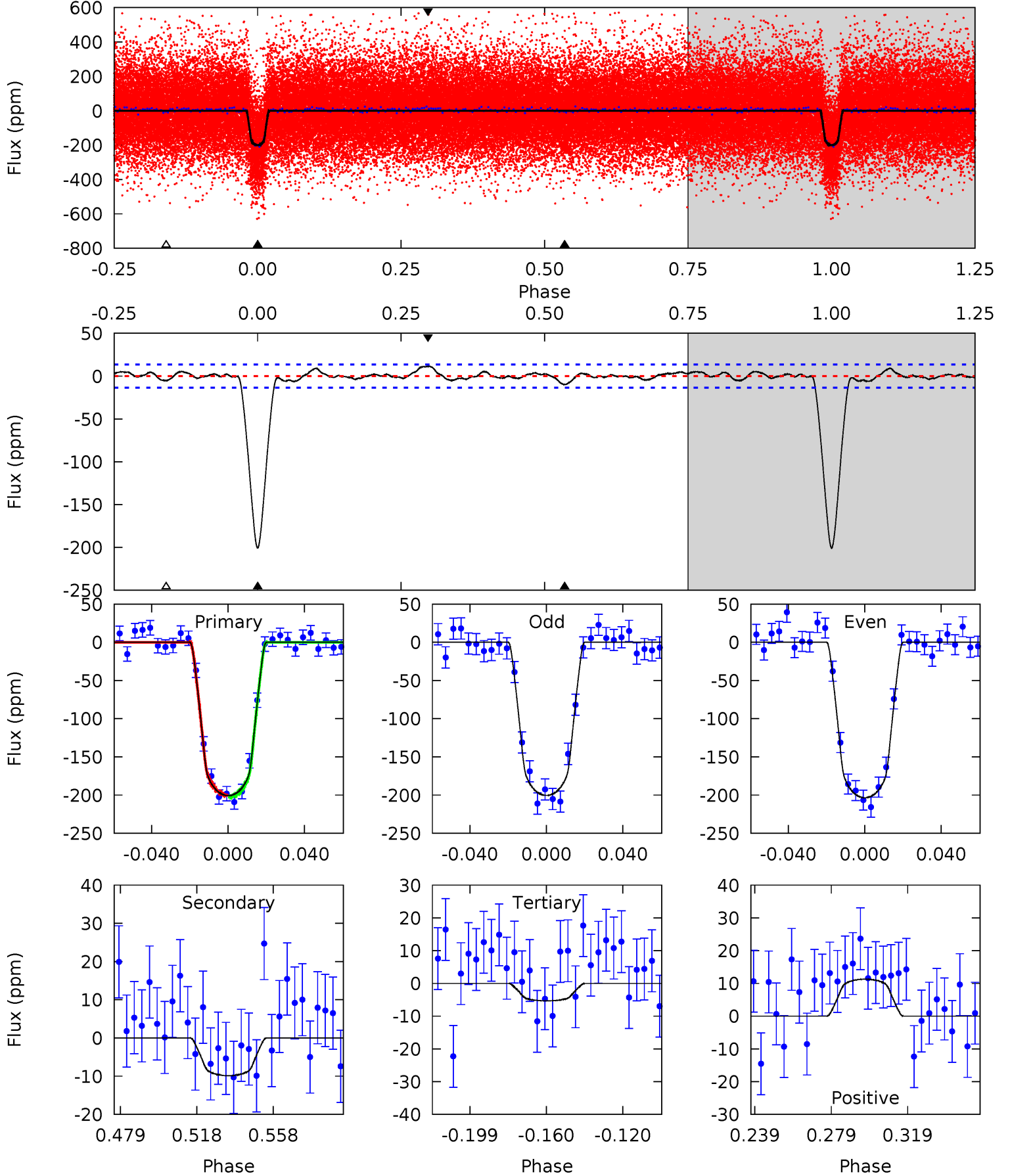
TCE 011923284-01 P= 2.757996 Days $T_0=131.875004$ (BKJD)



DV Model-Shift Uniqueness Test

011923284-01, P = 2.757978 Days, E = 129.121065 Days

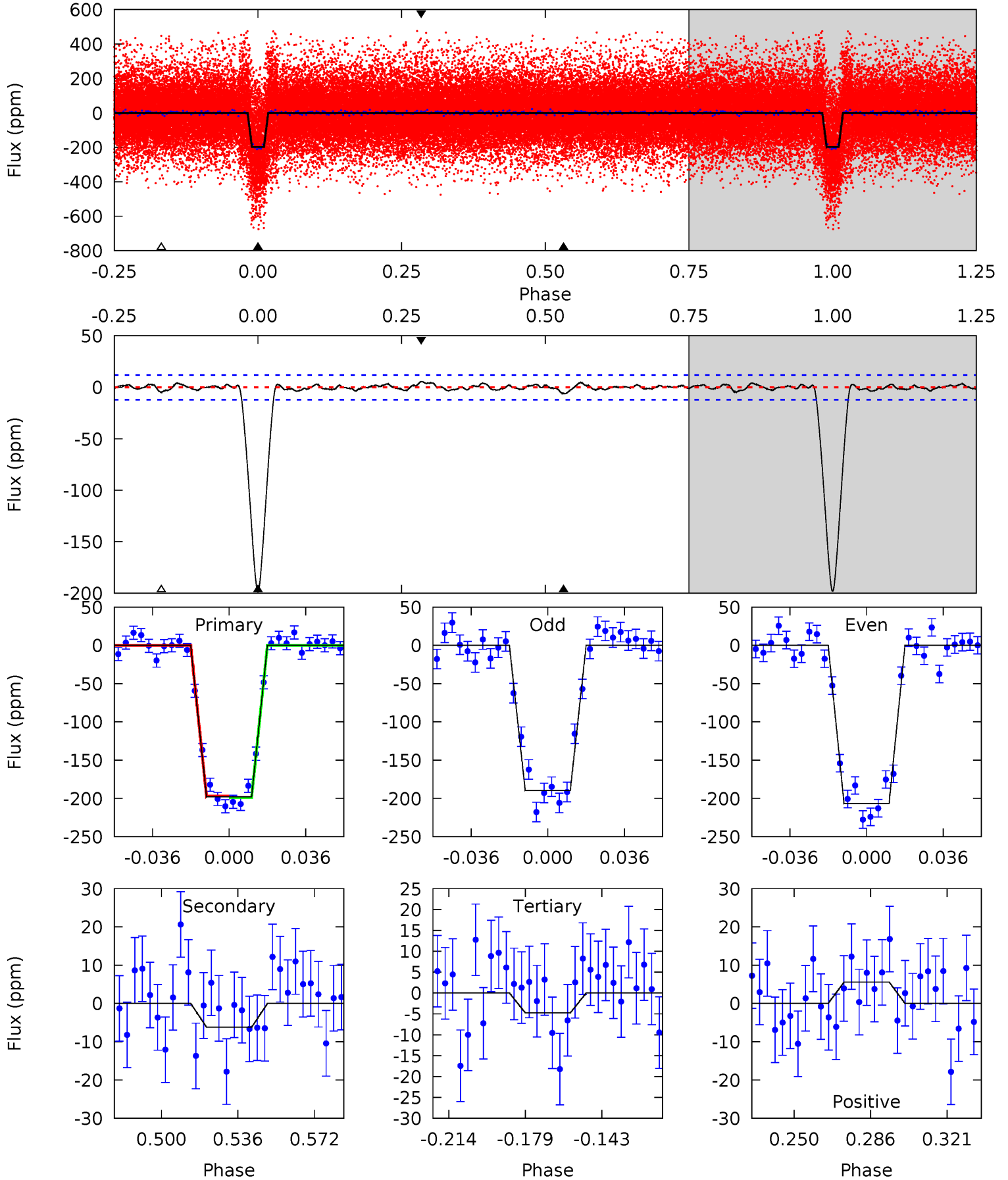
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
70.4	3.46	1.86	3.95	4.75	2.05	1.21	68.5	66.4	1.60	-0.49	0.54	0.98	0.05	0.40



Alt Model-Shift Uniqueness Test

011923284-01, P = 2.757996 Days, E = 129.117008 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
79.0	2.48	1.89	2.24	4.78	2.10	0.76	77.1	76.8	0.58	0.24	3.39	0.96	0.03	0.34



Stellar Parameters For KIC 011923284

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5919^{+106}_{-130}	$4.435^{+0.063}_{-0.117}$	$-0.080^{+0.150}_{-0.150}$	$1.000^{+0.146}_{-0.079}$	$0.994^{+0.064}_{-0.071}$	$1.400^{+0.342}_{-0.468}$
	+2%/-2%	+1%/-3%	+188%/-188%	+15%/-8%	+6%/-7%	+24%/-33%
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 011923284-01 / KOI 2026.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-10 ± 3	$1.73^{+0.28}_{-0.24}$	1871^{+74}_{-60}	3178^{+216}_{-229}	$2.665^{+1.340}_{-0.960}$
Alt.	-6 ± 3	$1.55^{+0.27}_{-0.26}$	1874^{+83}_{-69}	3052^{+239}_{-281}	$2.059^{+1.261}_{-0.901}$

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

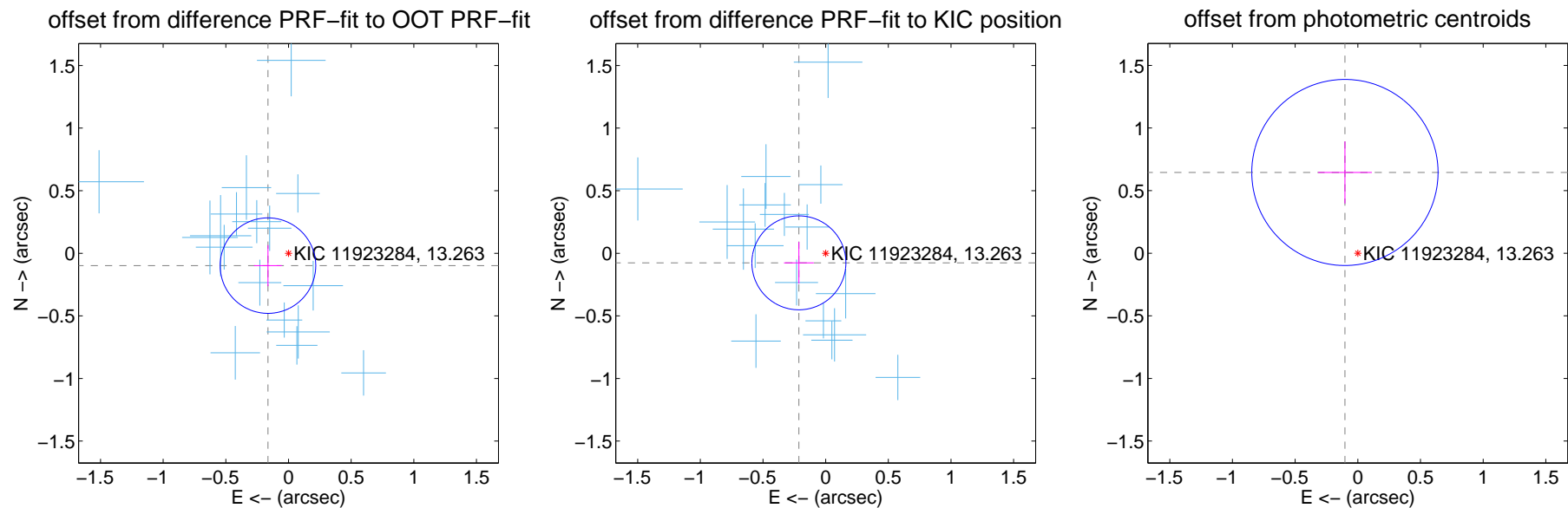
DV Centroid Data

Supplemental centroid analysis for 011923284-01. Kepler magnitude: 13.26. Transit SNR 43.13

There are 17 quarters with good PRF difference image offsets

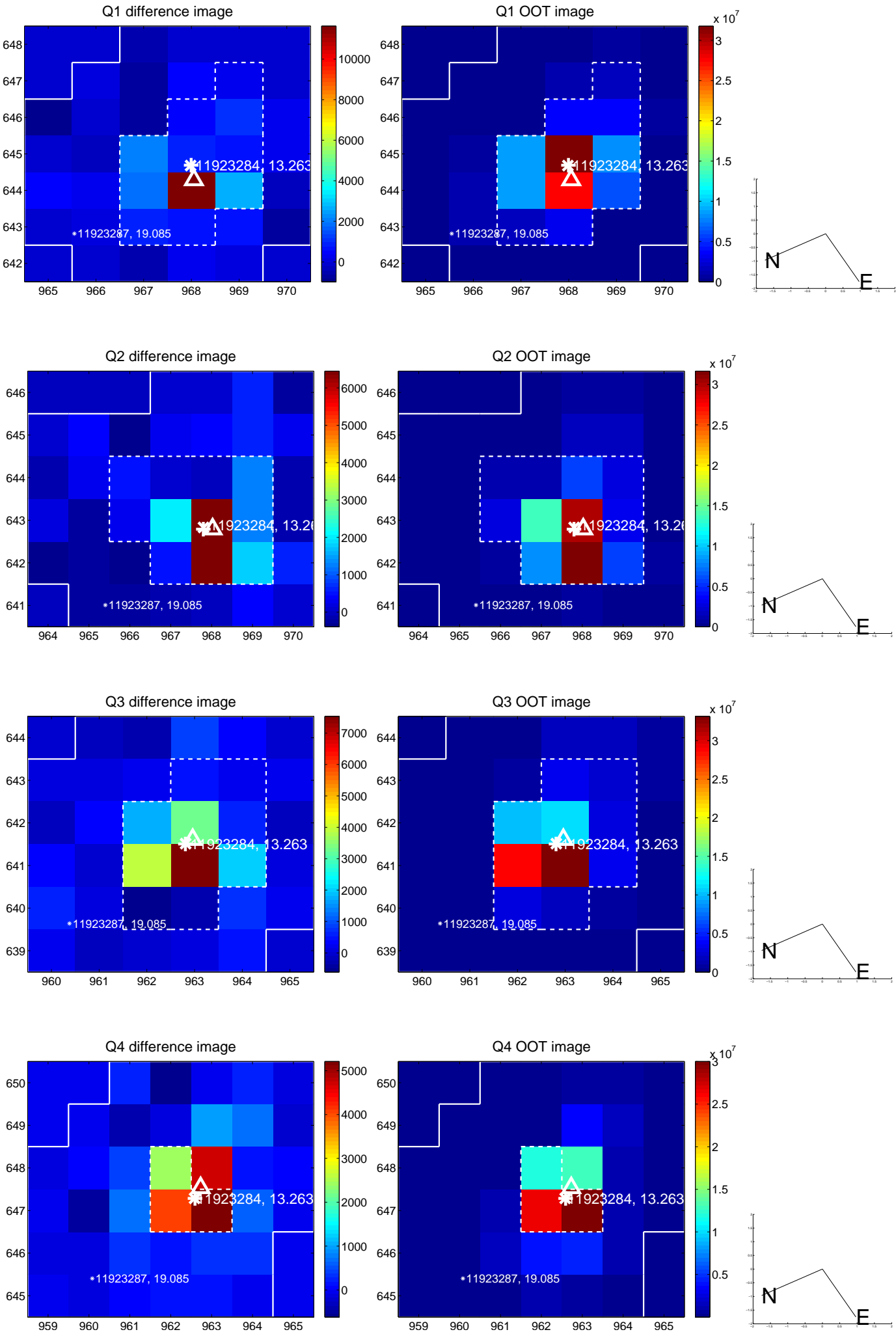
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.191 ± 0.127	1.50	0.164 ± 0.111	-0.099 ± 0.164
PRF-fit source offset from KIC position	0.227 ± 0.125	1.81	0.214 ± 0.119	-0.076 ± 0.166
photometric centroid source offset	0.65 ± 0.25	2.64	0.10 ± 0.21	0.65 ± 0.25

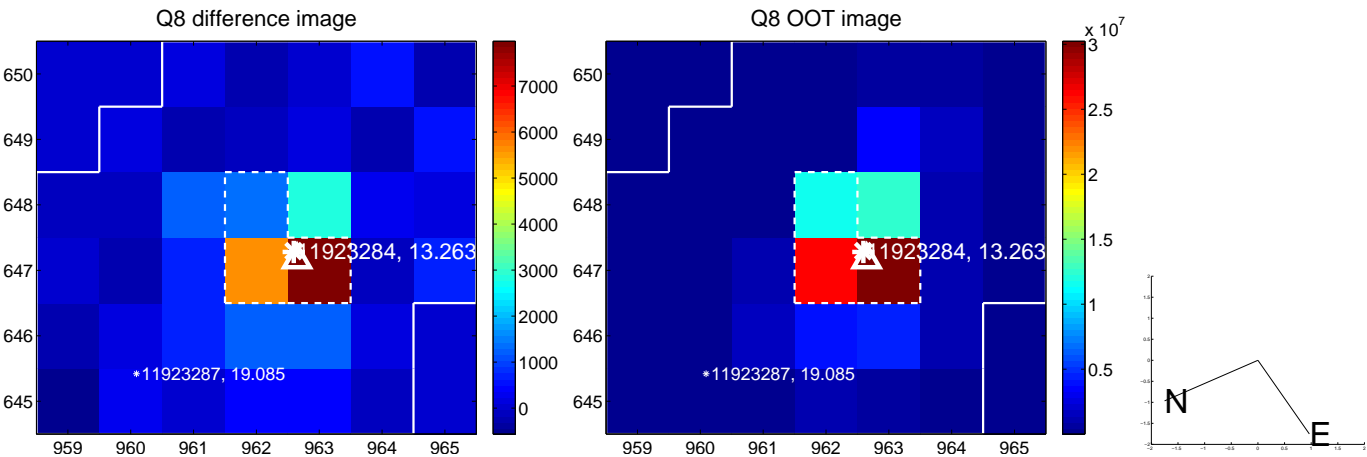
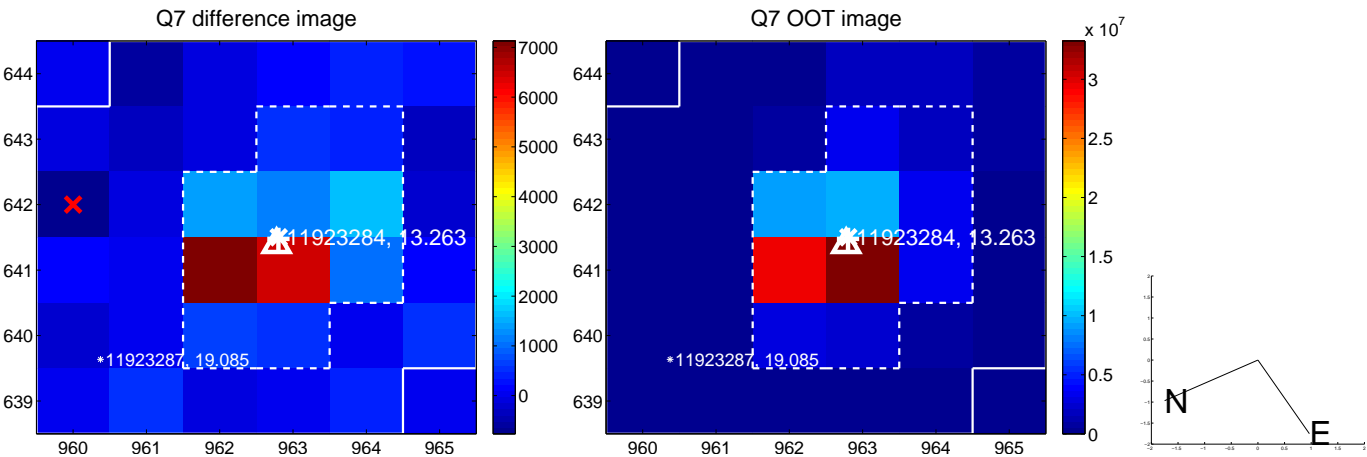
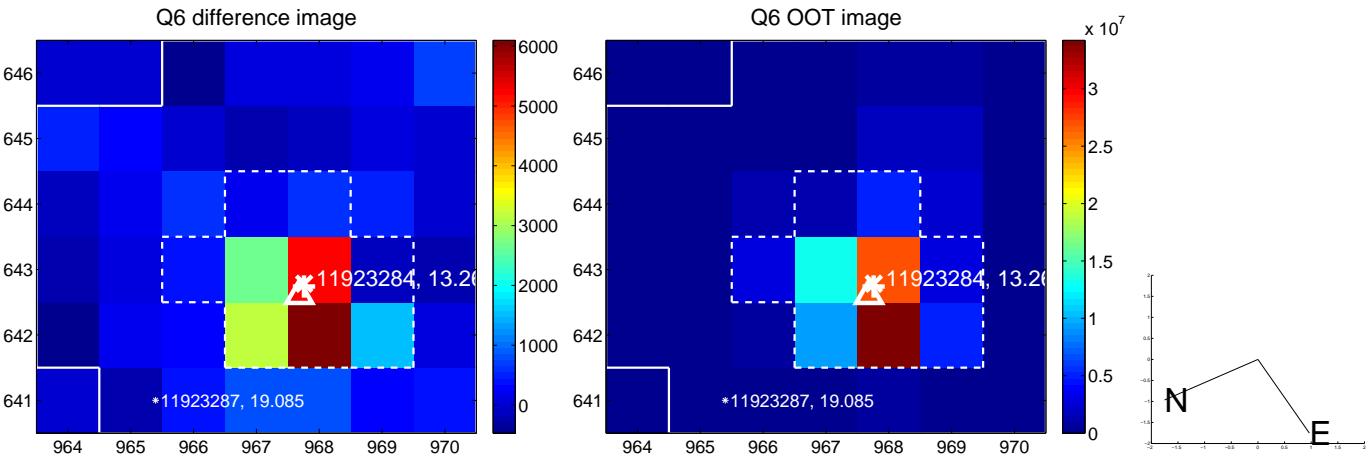
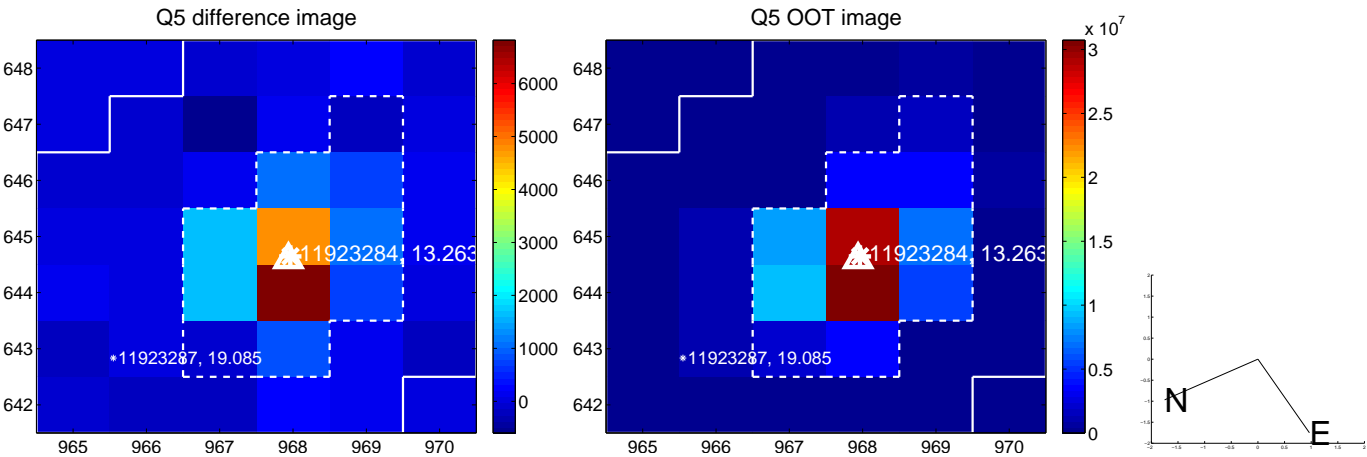


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

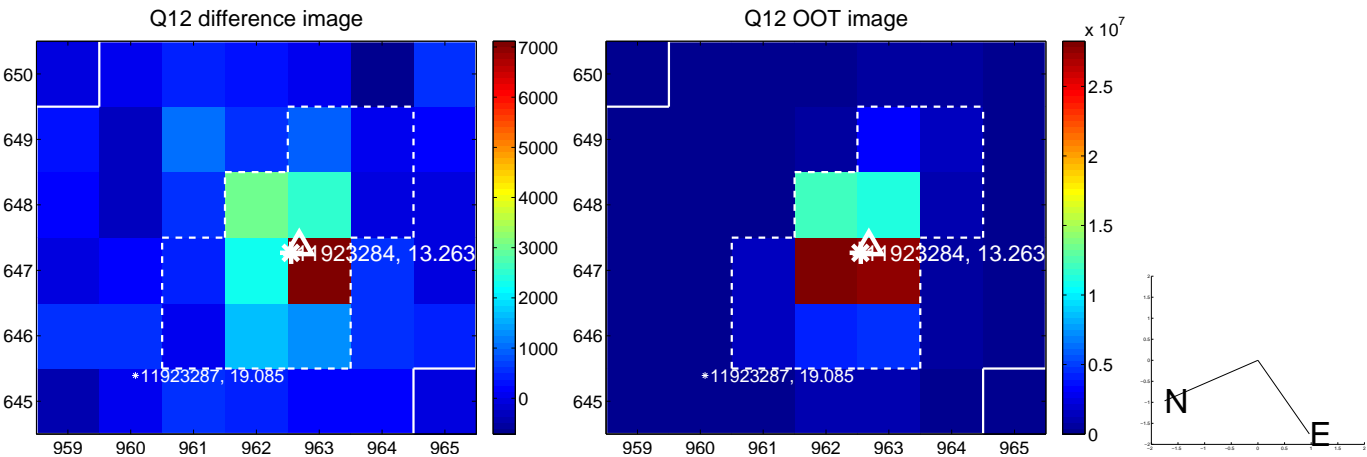
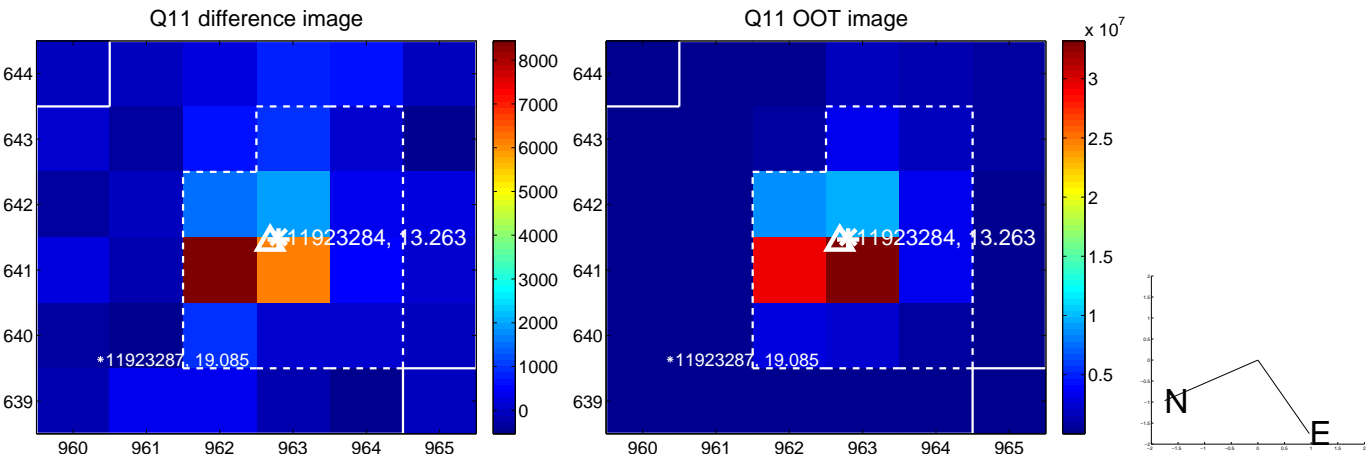
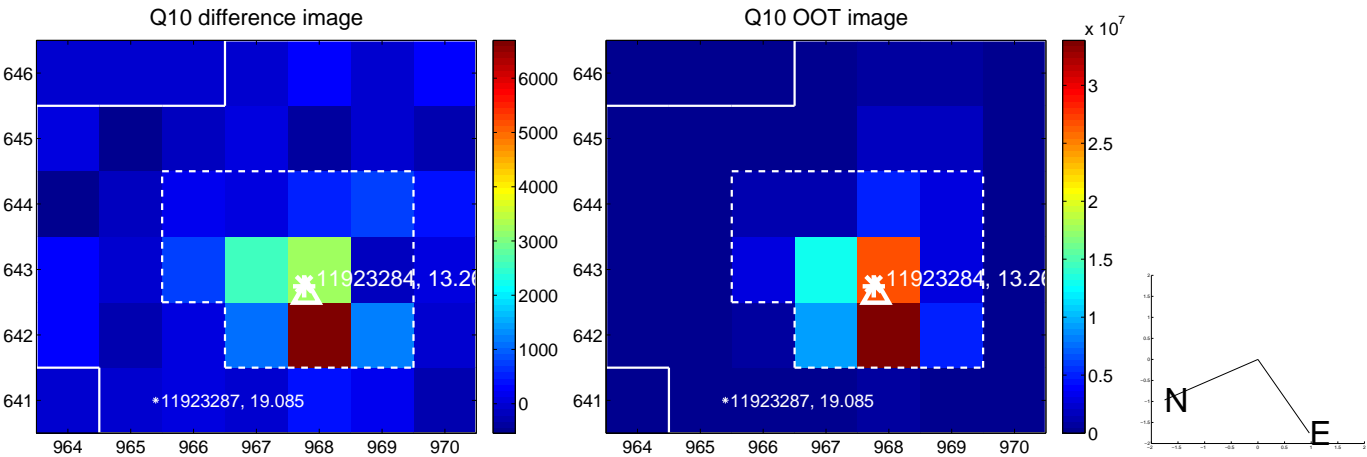
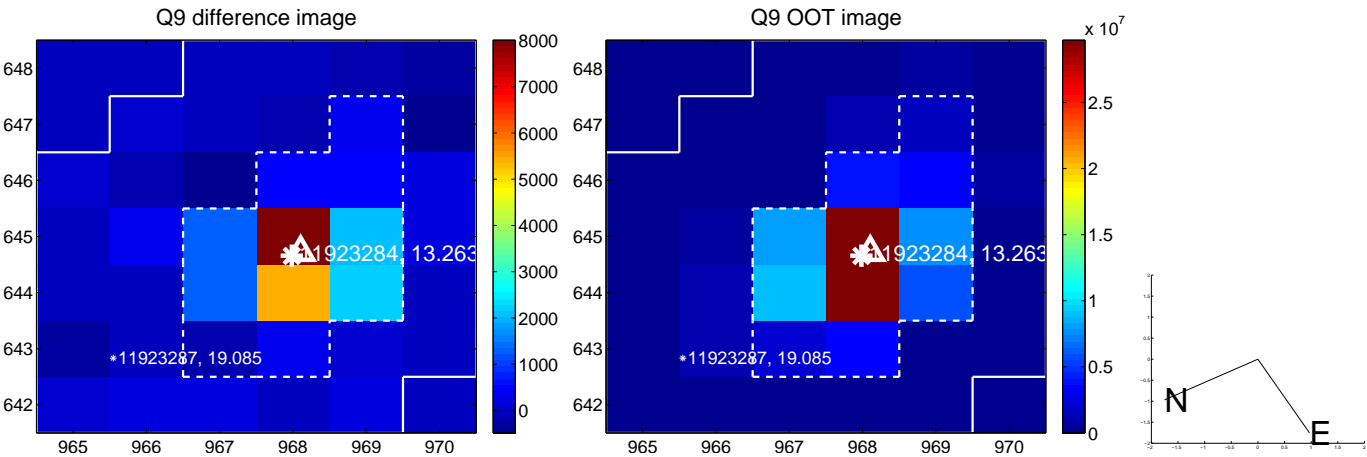
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



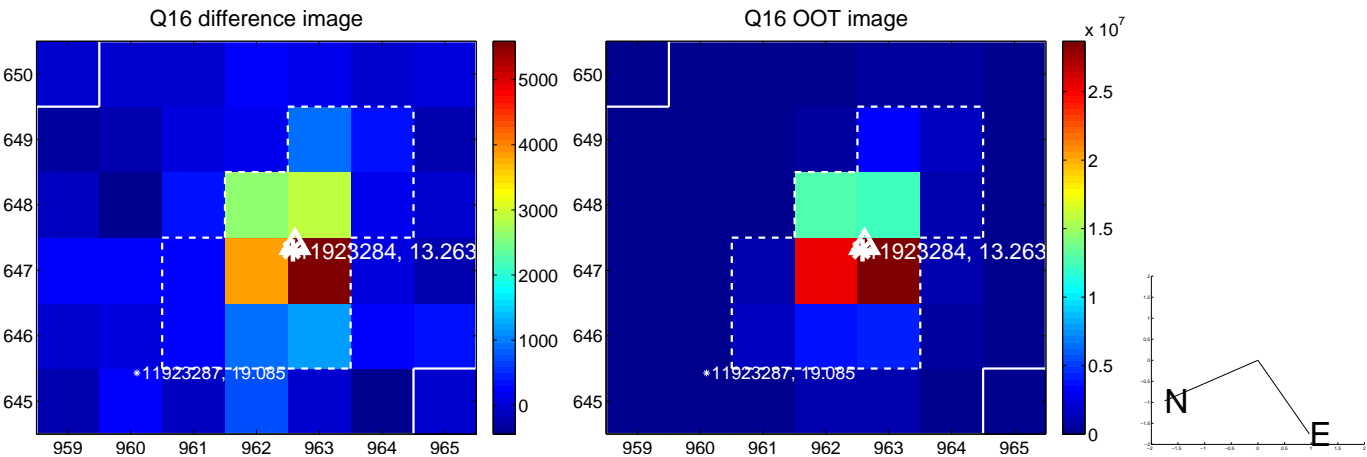
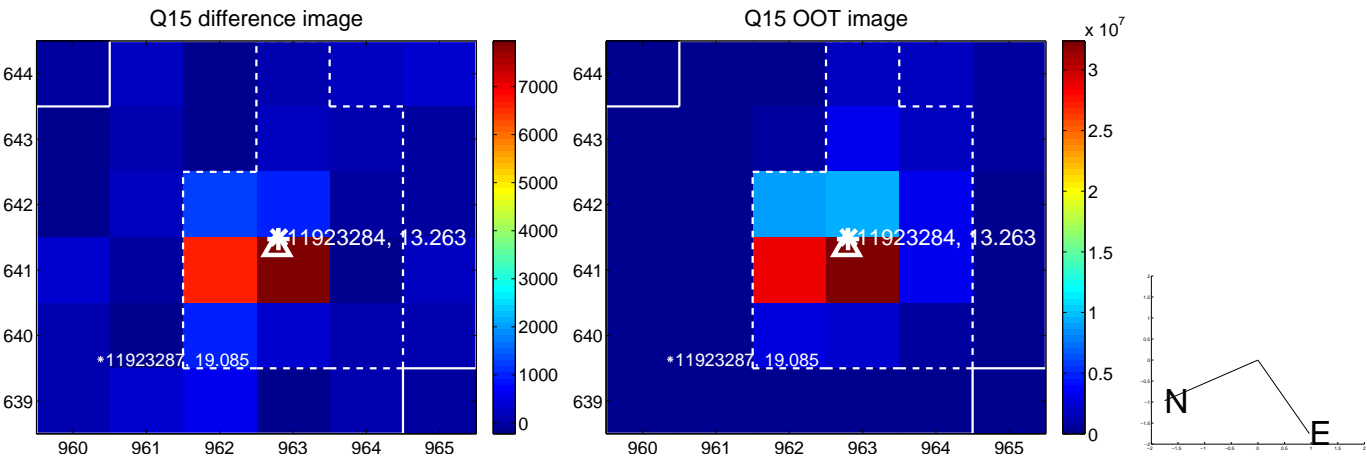
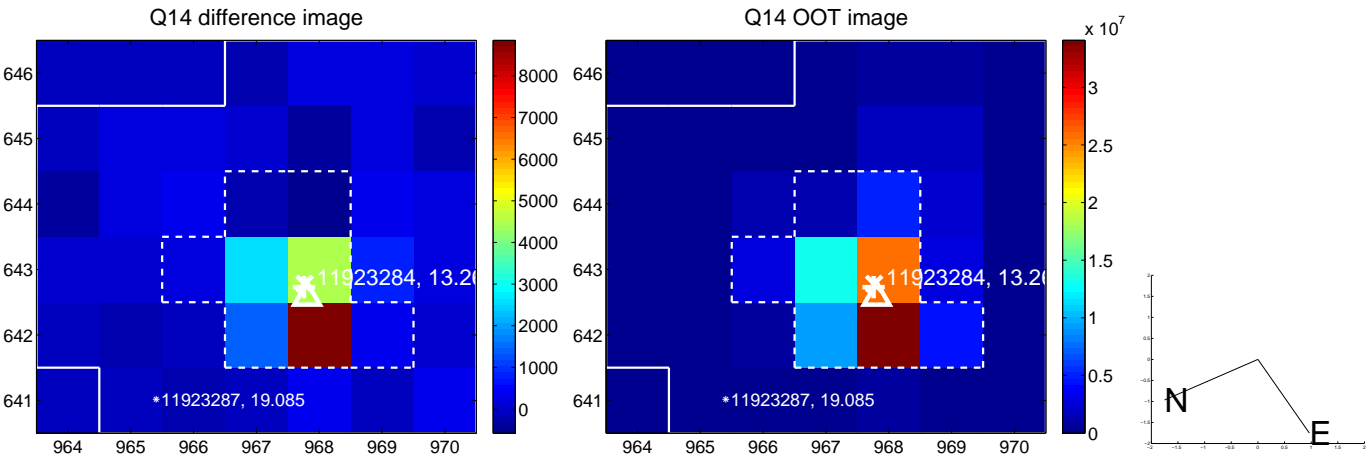
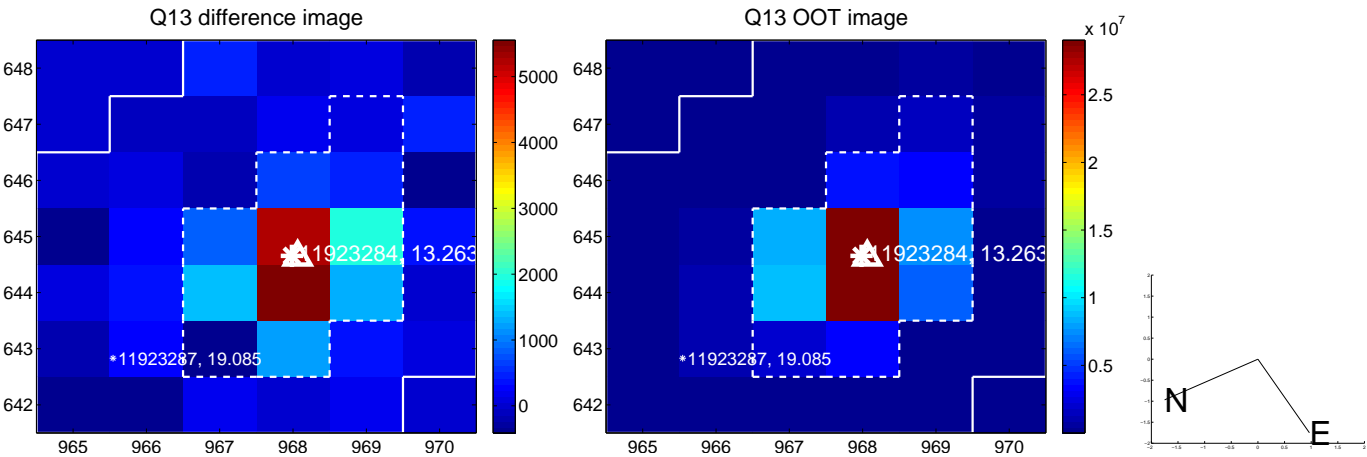
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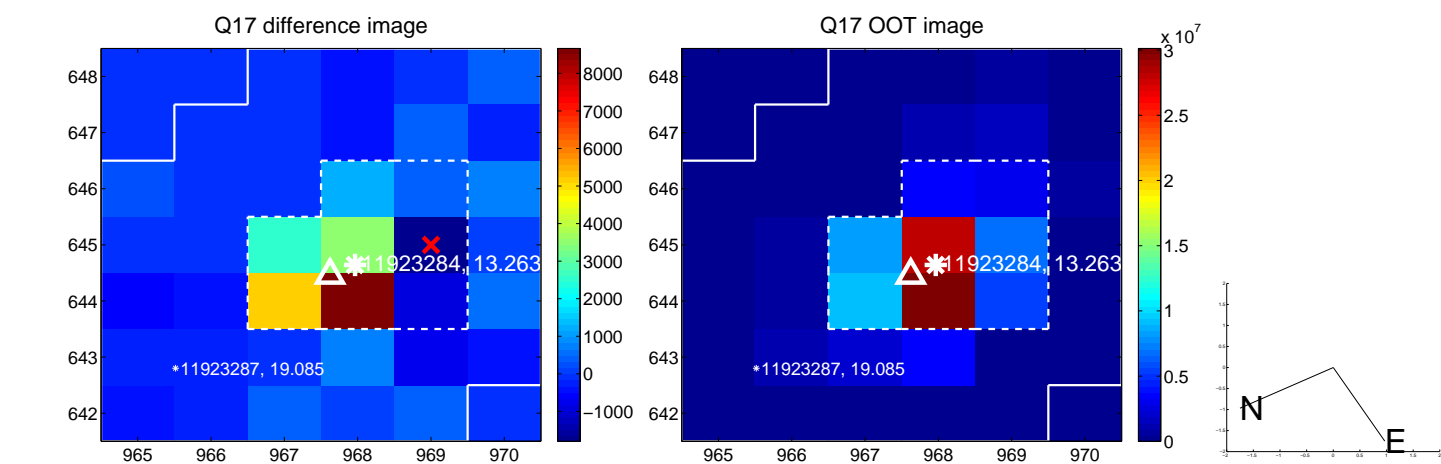
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



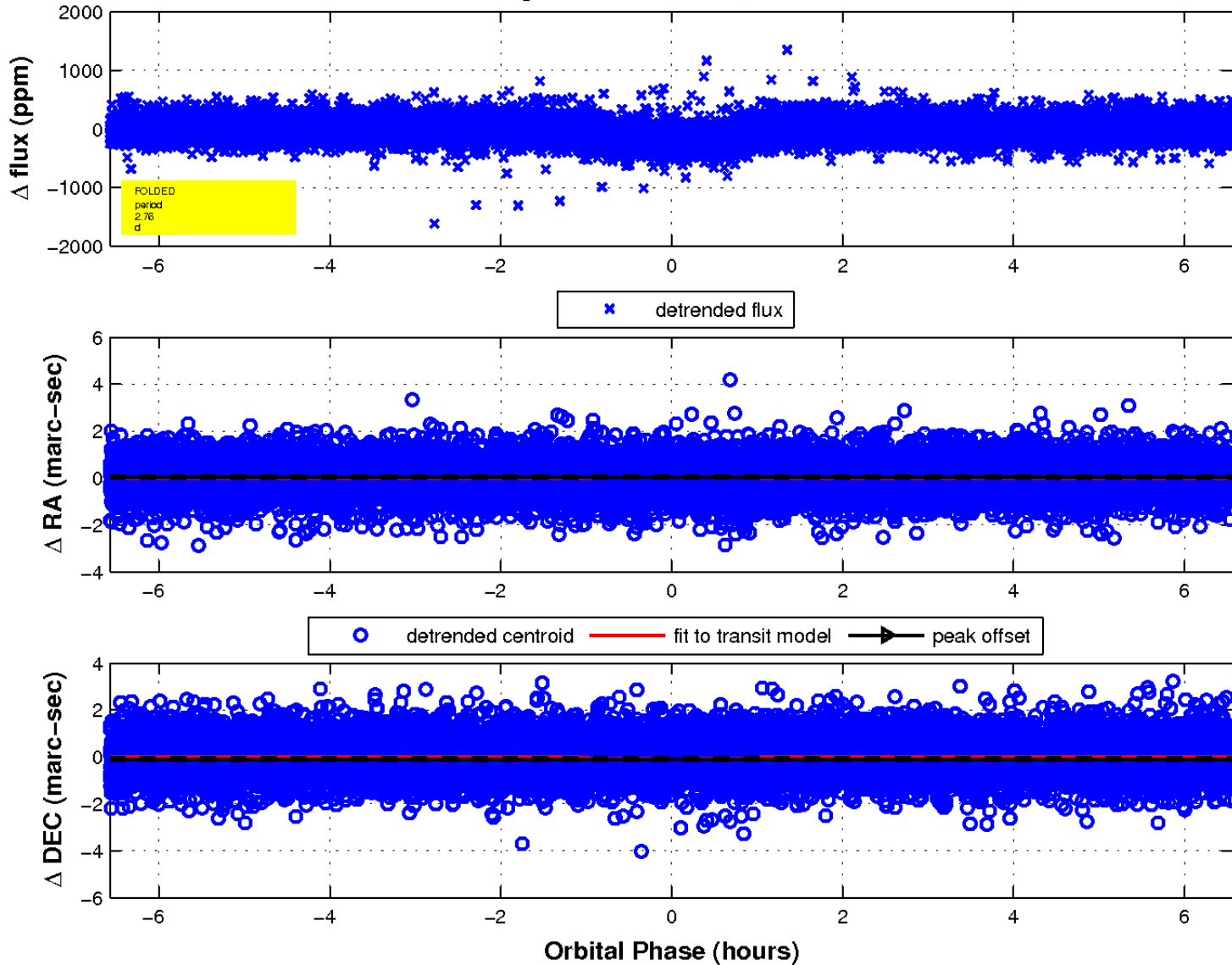
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

