

KIC 006269070

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})
006269070-01	OBS	2608.01	2.761210	131.611965	65.3	3.747	13.3	14.5	2.23	6381	2.10	3921.45

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006269070-01	OBS	PC	0.98	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.

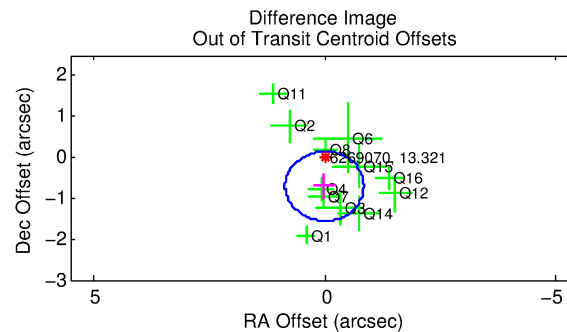
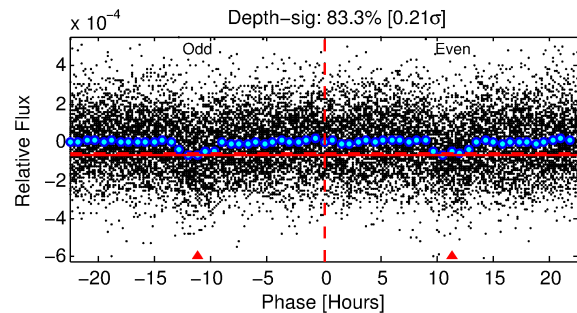
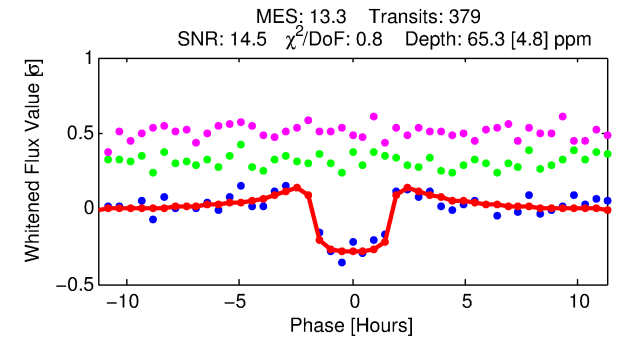
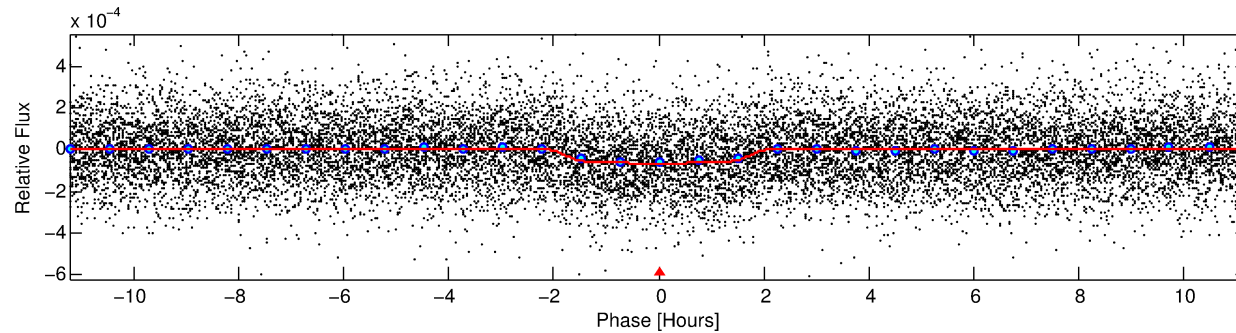
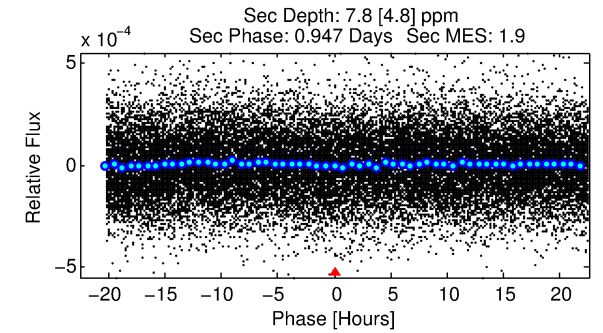
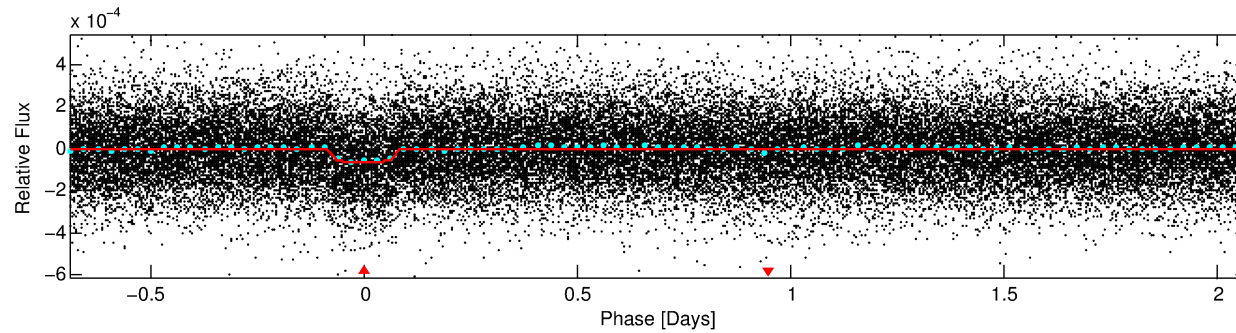
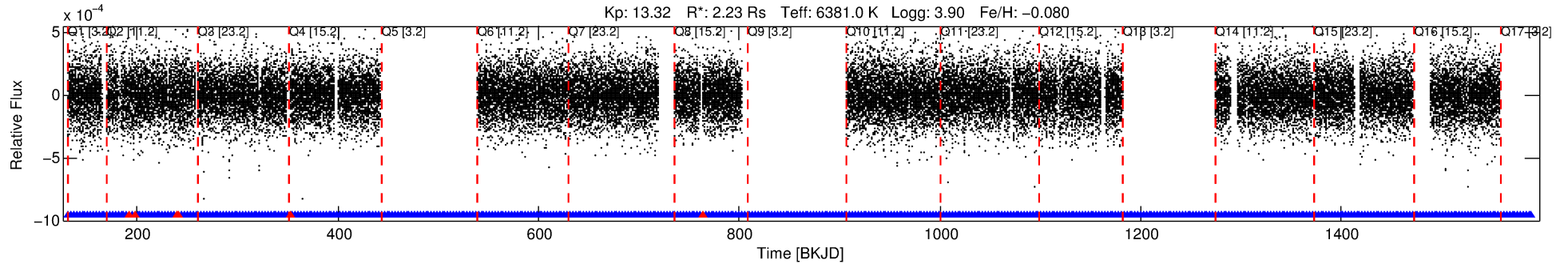
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006269070-01

No Significant Match Found

DV One-Page Summary

KIC: 6269070 Candidate: 1 of 1 Period: 2.761 d
KOI: K02608.01 Corr: 0.982



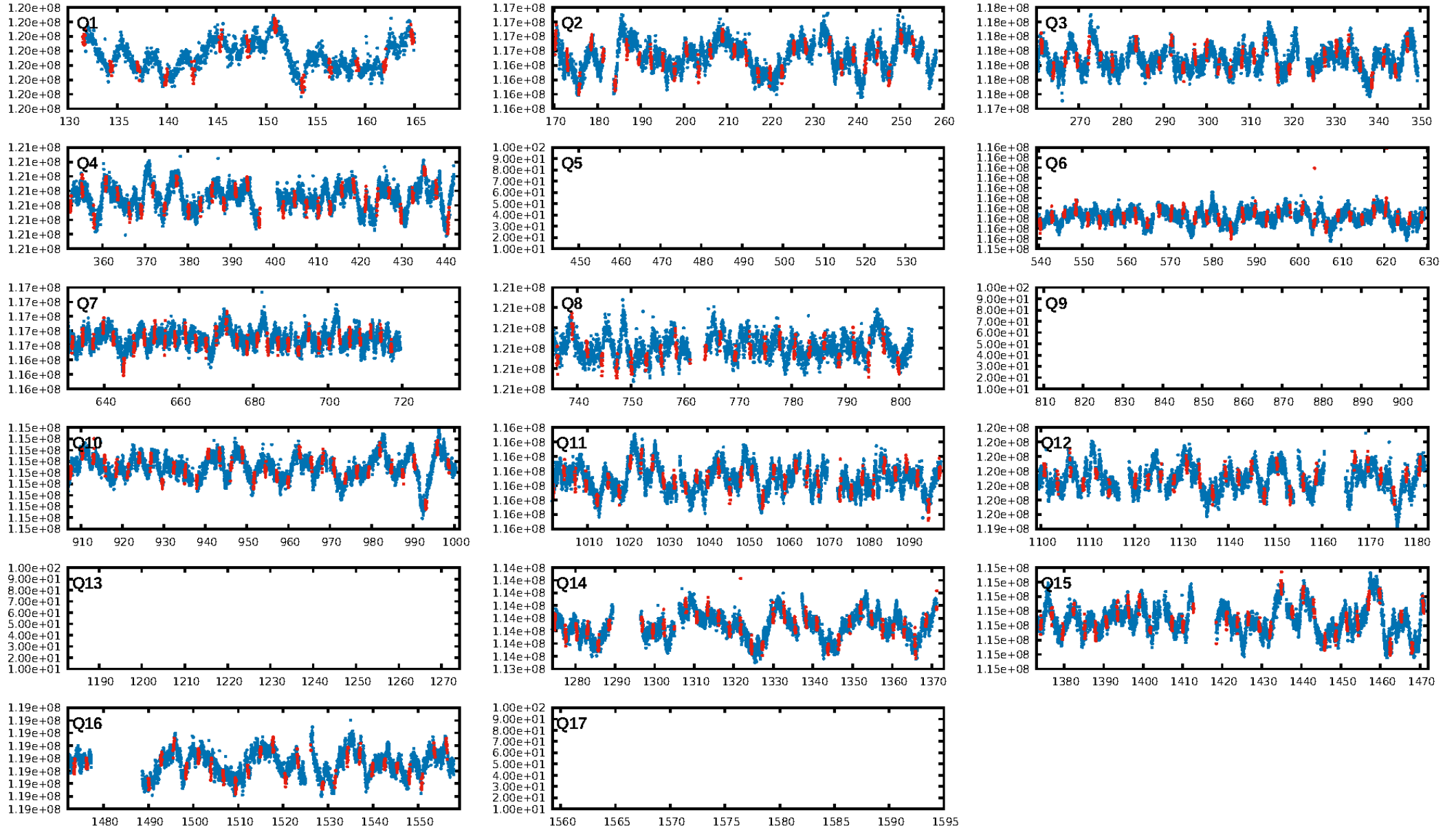
DV Fit Results:

Period = 2.76121 [0.00001] d
Epoch = 131.6120 [0.0023] BKJD
Rp/R* = 0.0086 [0.0020]
a/R* = 2.80 [3.19]
b = 0.89 [0.30]
Seff = 3921.45 [2772.71]
Teq = 2018 [357] K
Rp = 2.10 [1.08] Re
a = 0.0434 [0.0189] AU
Ag = 1.85 [1.92] [0.44σ]
Teffp = 3636 [718] K [2.02σ]

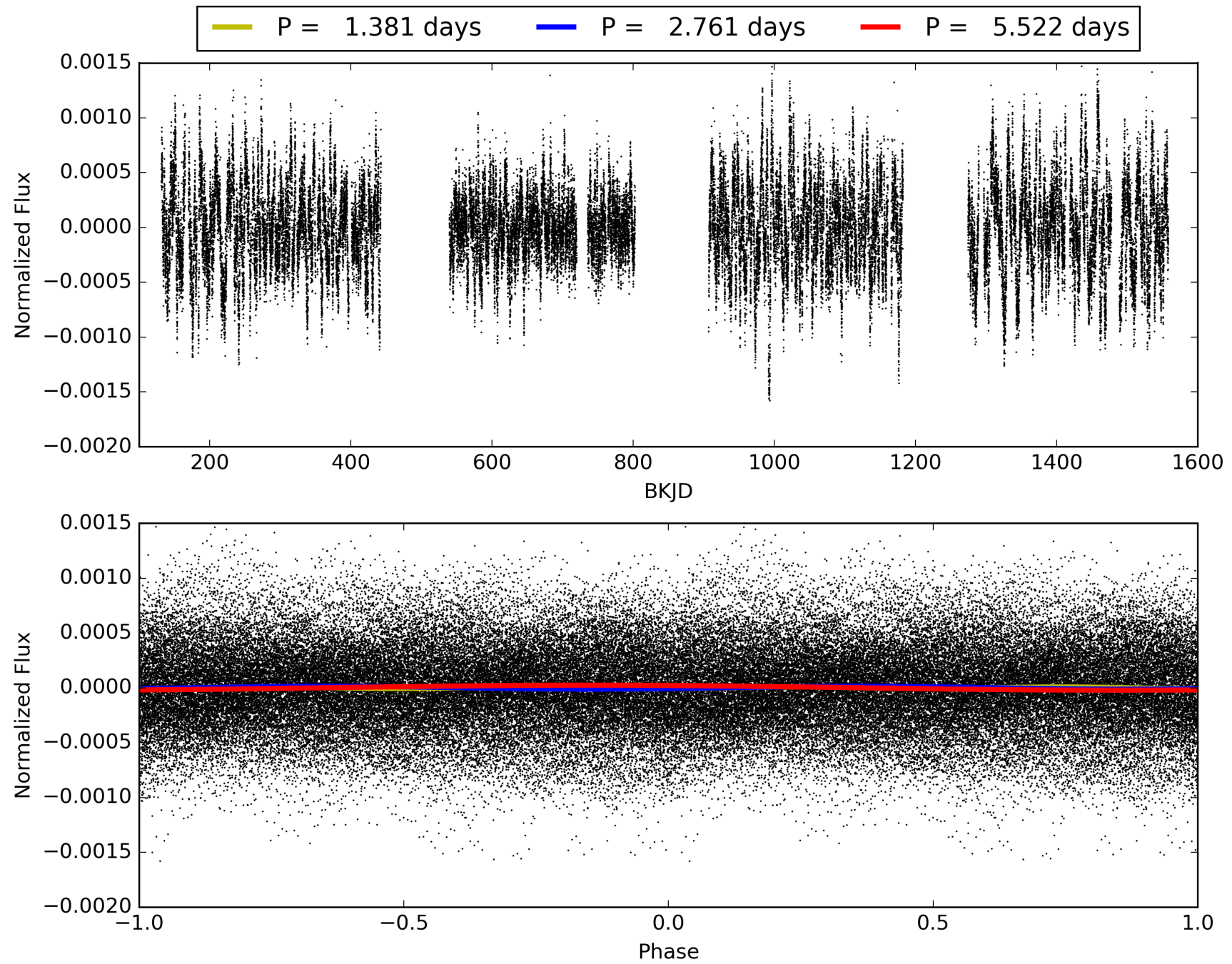
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.63e-38
RollingBand-fgt: 0.98 [360/366]
GhostDiagnostic-chr: -7.548
Centroid-sig: 7.3%
Centroid-so: 0.542 arcsec [1.04σ]
OotOffset-rm: 0.705 arcsec [2.48σ]
KicOffset-rm: 0.555 arcsec [2.00σ]
OotOffset-st: 3/4/4/1 [12]
KicOffset-st: 3/4/4/1 [12]
DiffImageQuality-fgm: 1.00 [12/12]
DiffImageOverlap-fno: 1.00 [13/13]

TCE 006269070-01, PDC Light Curves

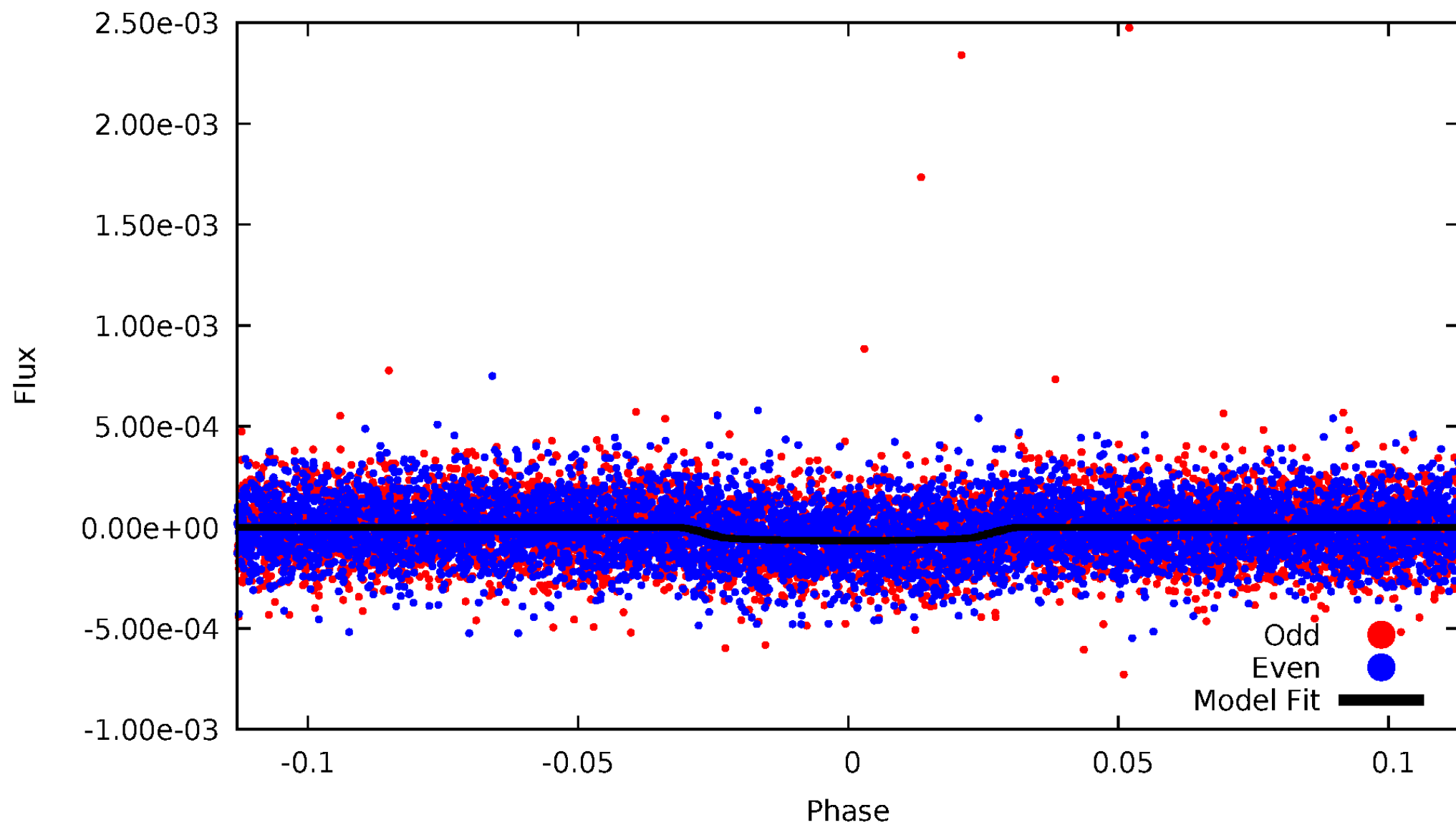


TCE 006269070-01



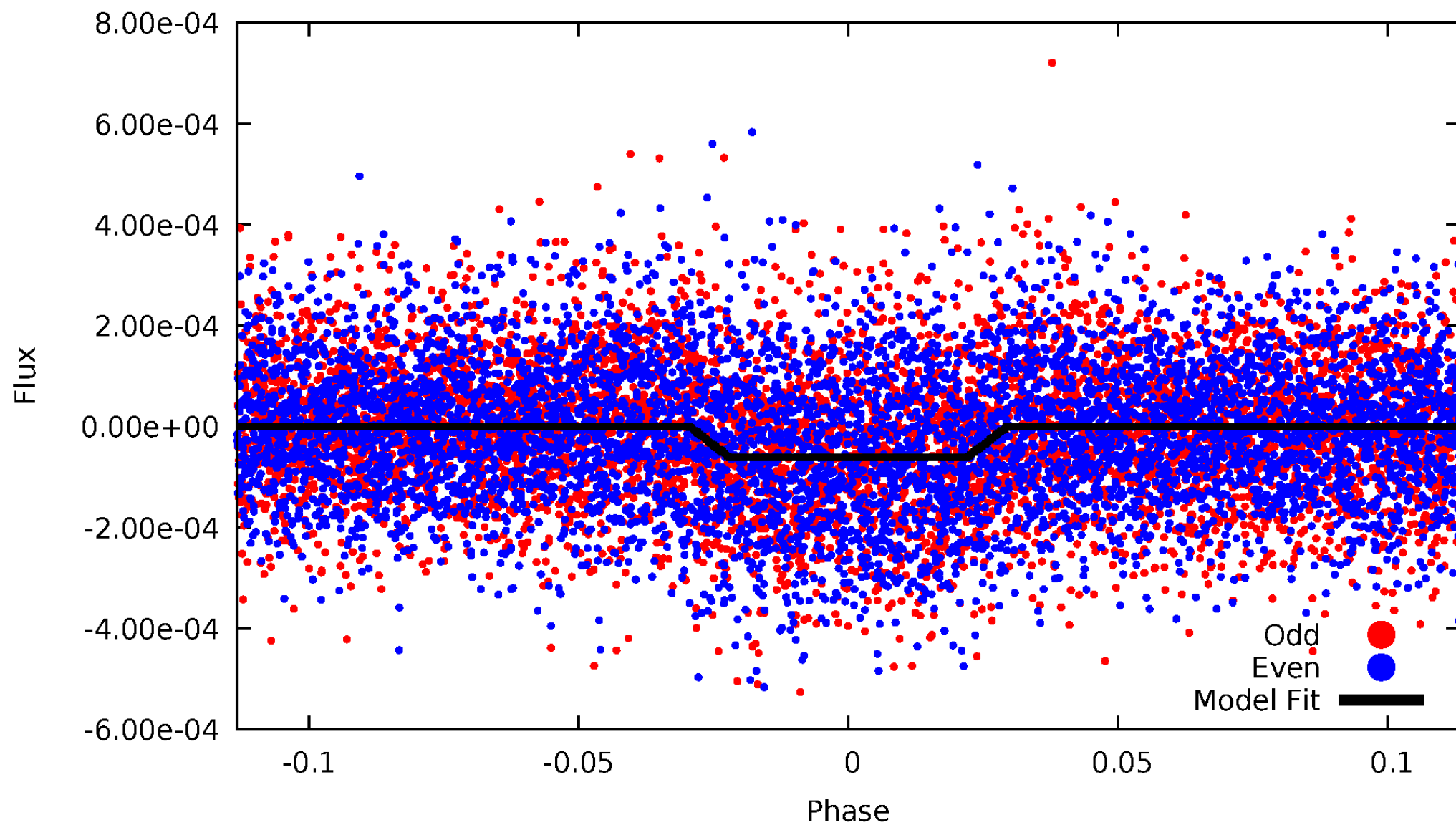
DV Odd/Even

TCE 006269070-01



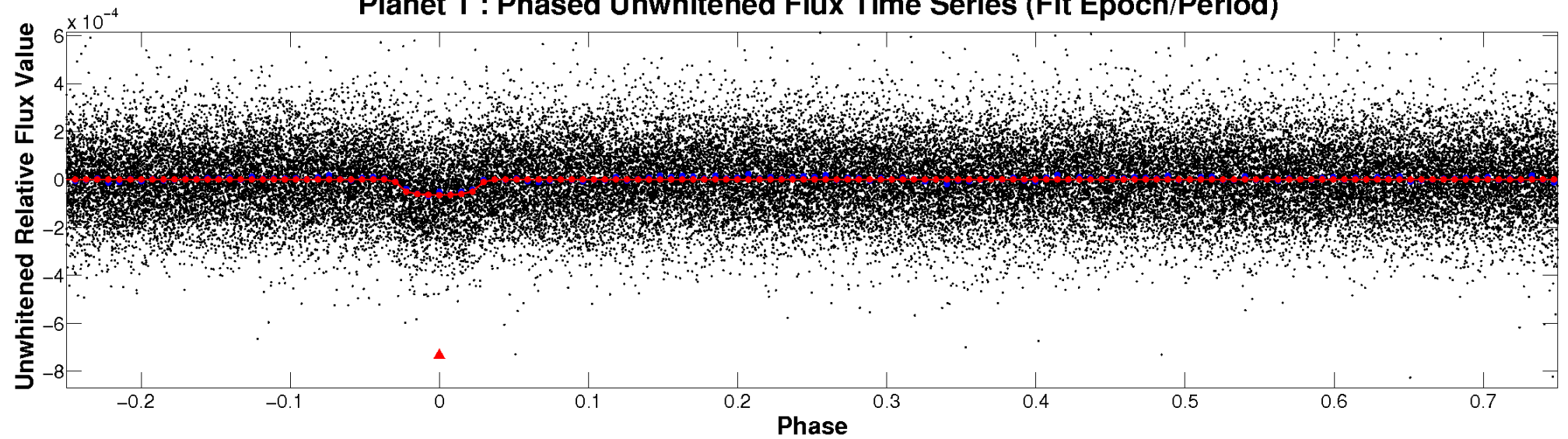
ALT Odd/Even

TCE 006269070-01

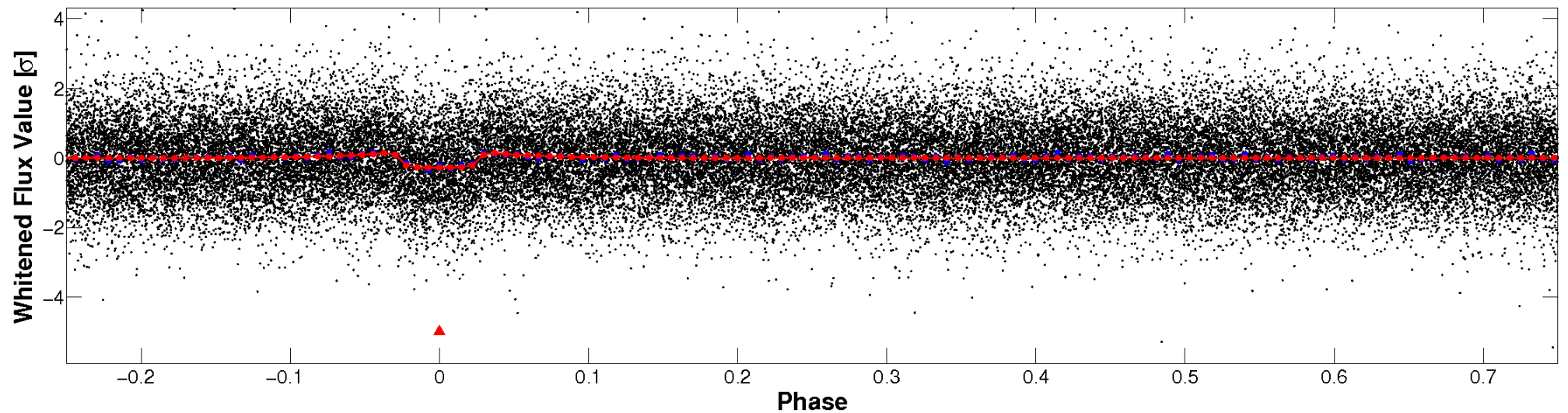


Non-Whitened Vs. Whitened Light Curve

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

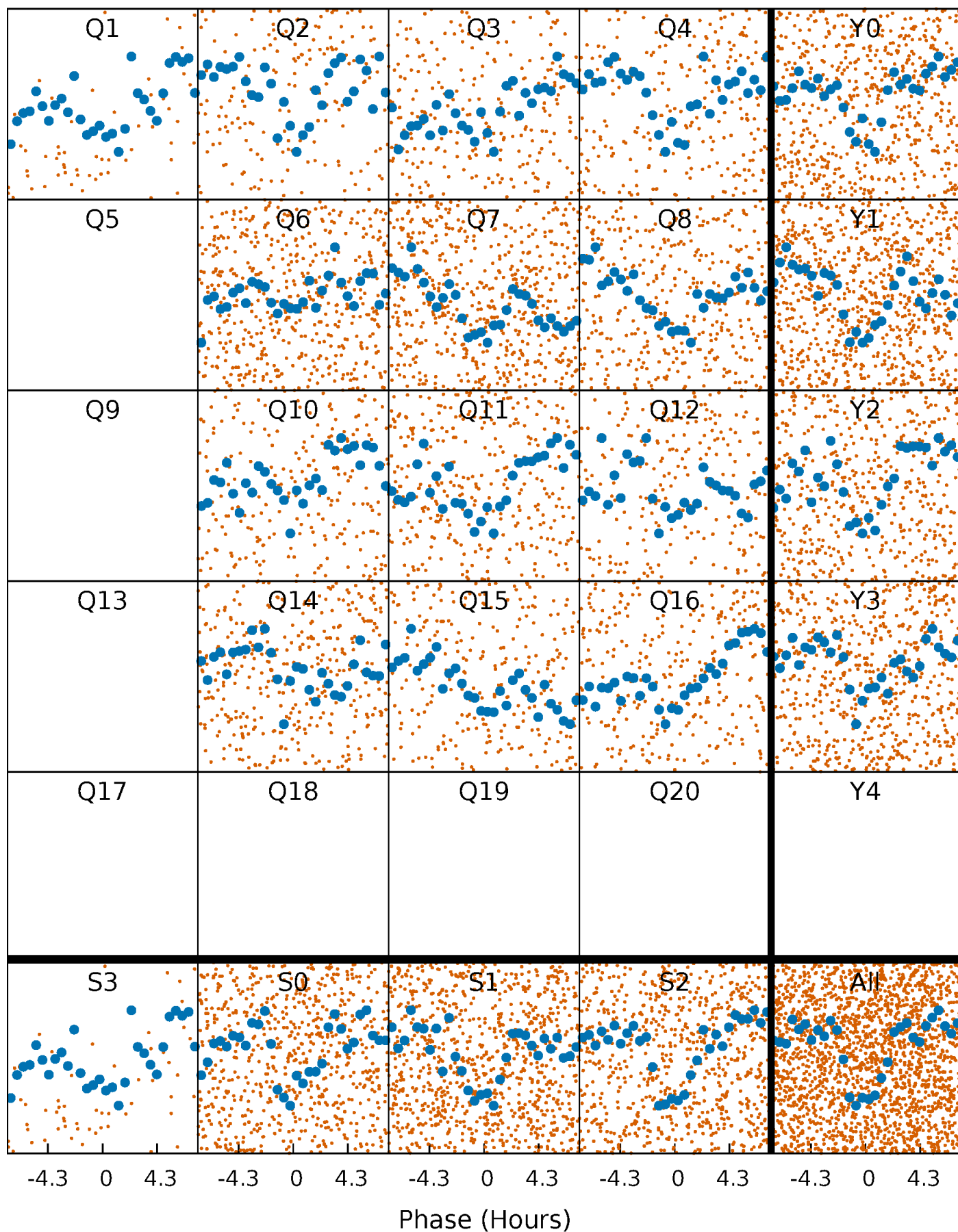


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



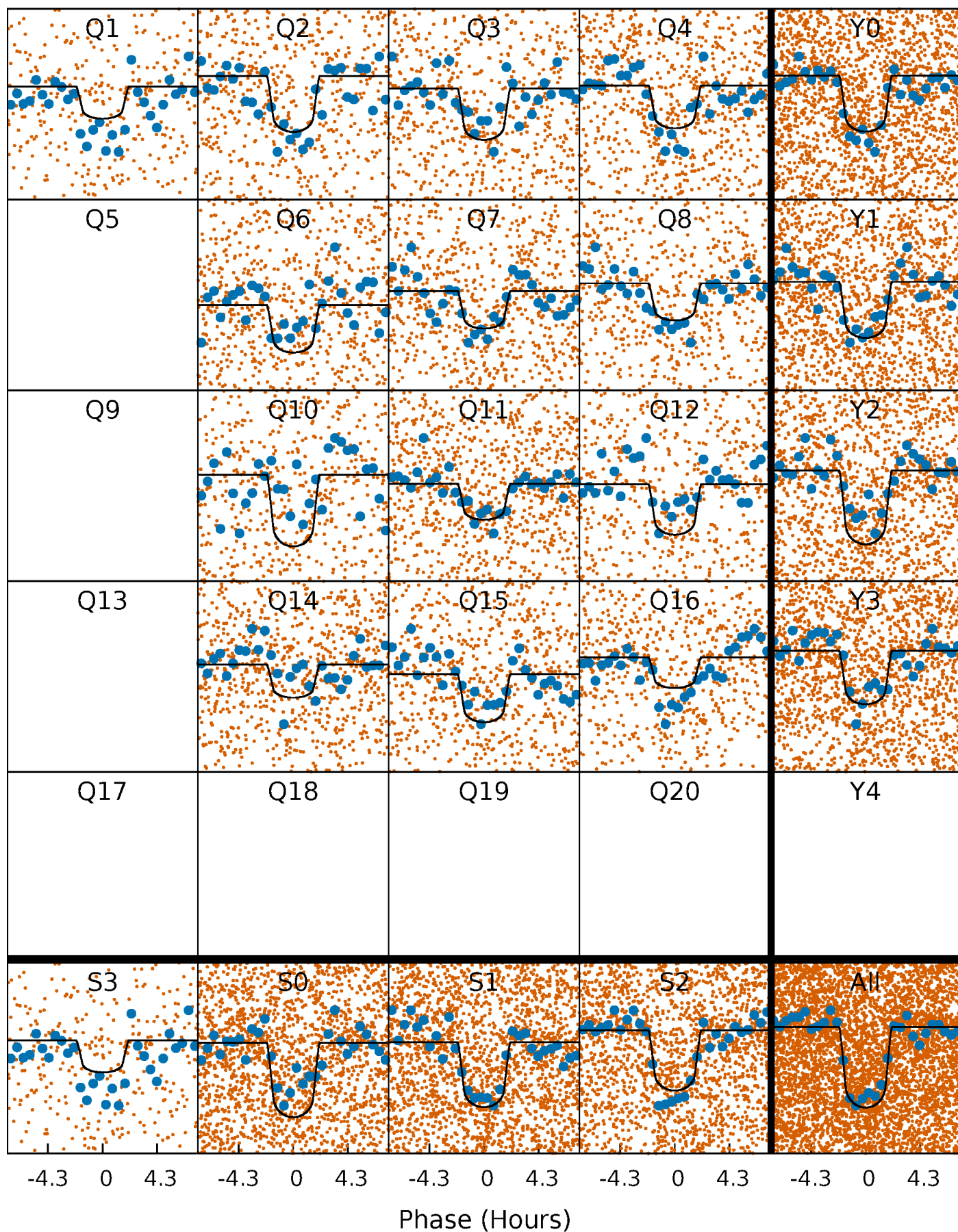
PDC Quarter-Phased Transit Curves

TCE 006269070-01 P= 2.761210 Days $T_0=131.611965$ (BKJD)



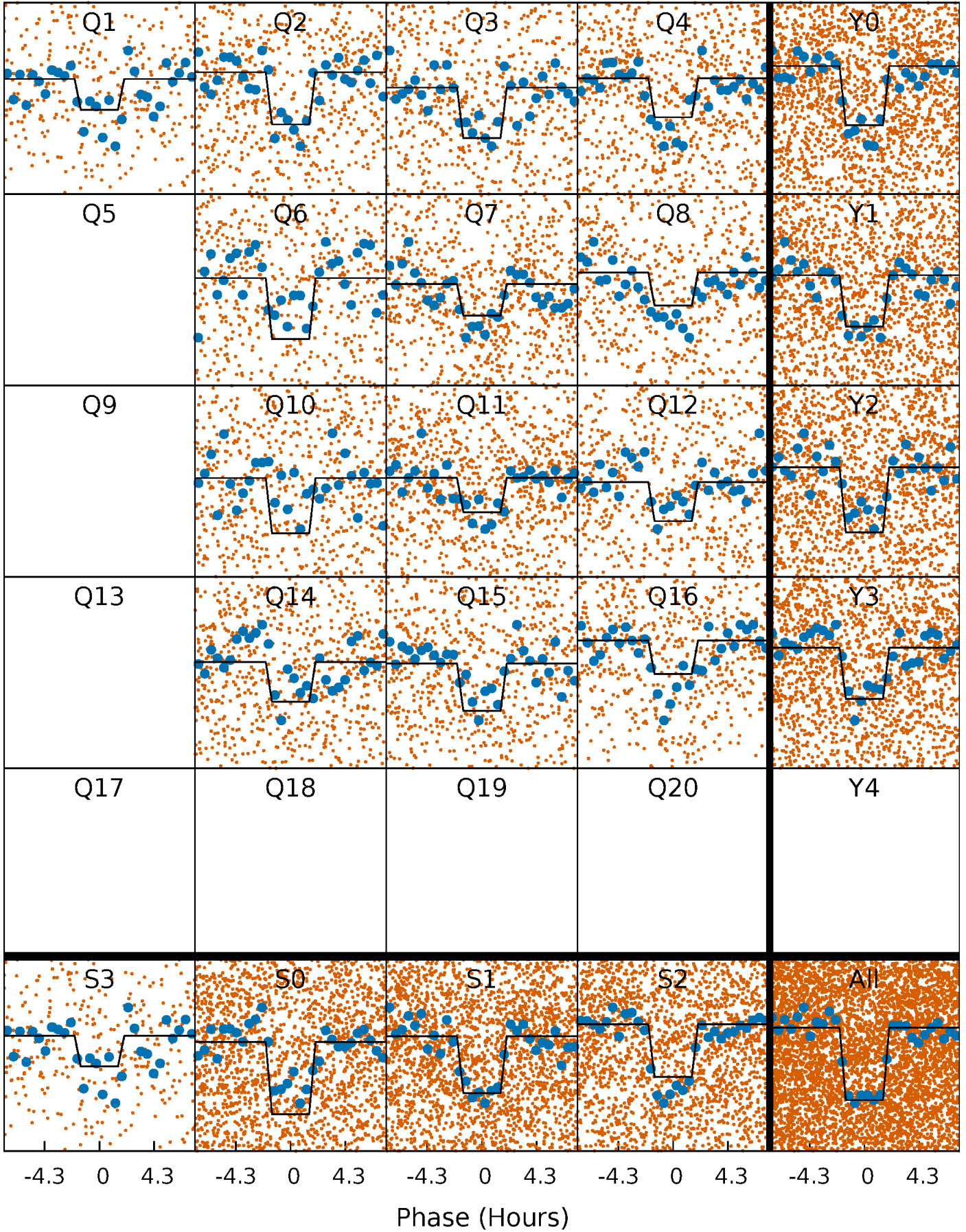
DV Quarter-Phased Transit Curves

TCE 006269070-01 P= 2.761210 Days $T_0=131.611965$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

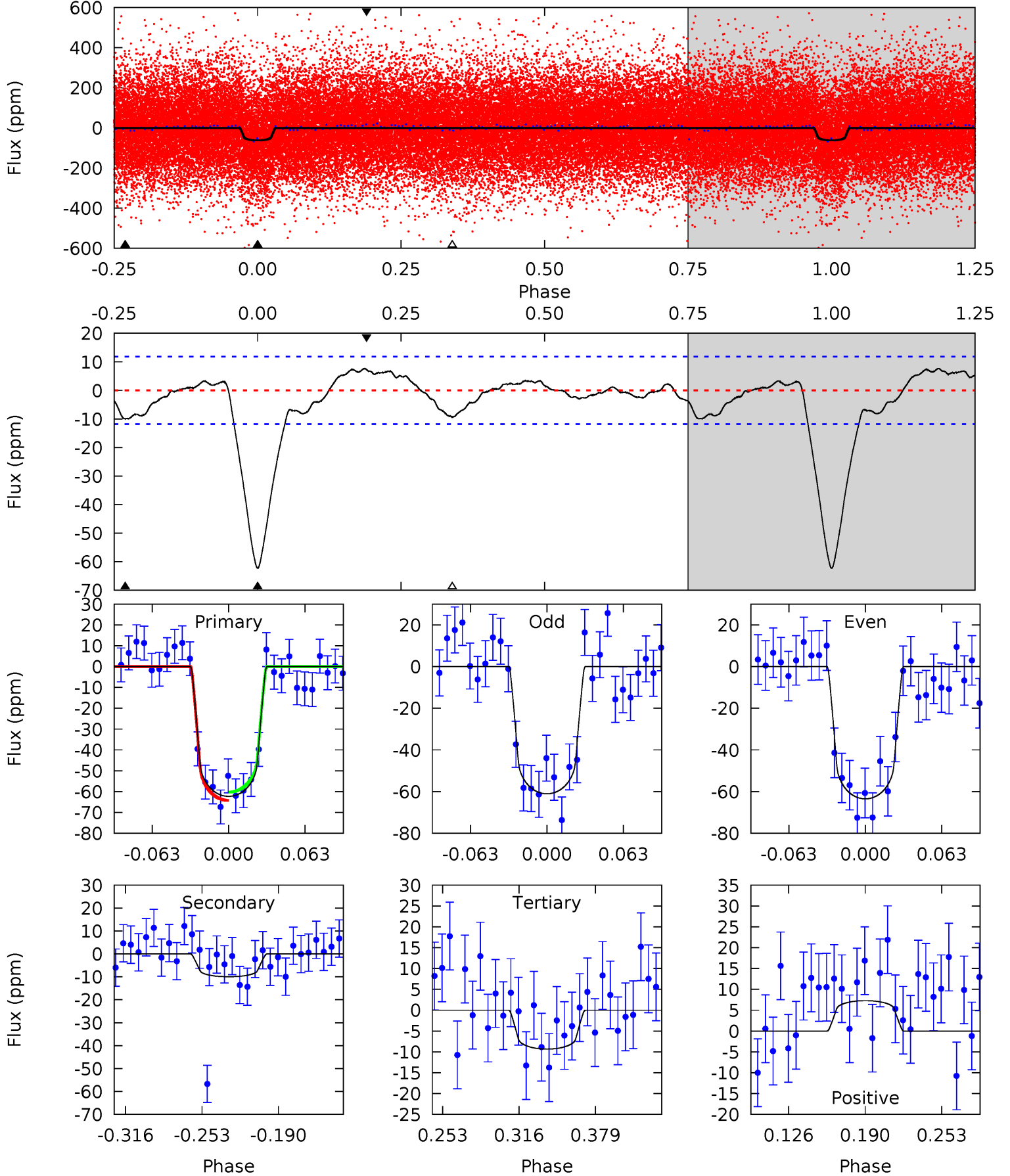
TCE 006269070-01 P= 2.761221 Days $T_0=131.610246$ (BKJD)



DV Model-Shift Uniqueness Test

006269070-01, P = 2.761210 Days, E = 128.850755 Days

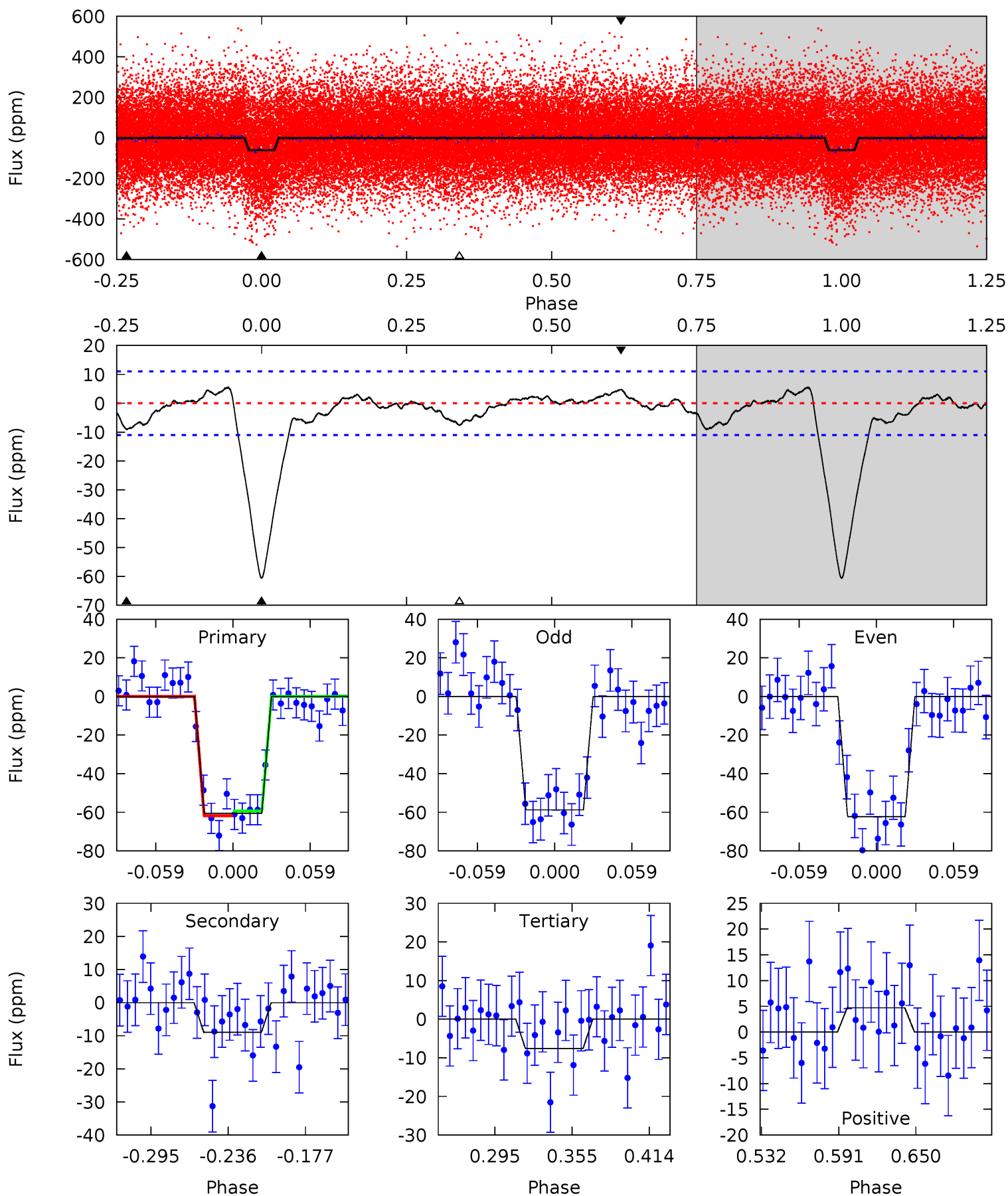
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.6	3.94	3.69	2.88	4.66	1.86	1.55	20.9	21.7	0.25	1.06	0.48	1.03	0.11	0.79



Alt Model-Shift Uniqueness Test

006269070-01, P = 2.761221 Days, E = 128.849025 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.7	3.82	3.23	1.99	4.67	1.89	1.19	22.5	23.7	0.58	1.82	0.75	0.95	0.08	0.52



Stellar Parameters For KIC 006269070

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6381^{+181}_{-227}	$3.897^{+0.405}_{-0.135}$	$-0.080^{+0.250}_{-0.300}$	$2.232^{+0.550}_{-1.022}$	$1.436^{+0.197}_{-0.366}$	$0.182^{+0.610}_{-0.077}$
	+3%/-4%	+10%/-3%	+312%/-375%	+25%/-46%	+14%/-25%	+336%/-42%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006269070-01 / KOI 2608.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-10 ± 3	$2.00^{+0.61}_{-0.63}$	2767^{+232}_{-335}	4018^{+561}_{-431}	$2.557^{+3.103}_{-1.196}$
Alt.	-9 ± 2	$1.77^{+0.63}_{-0.53}$	2731^{+233}_{-298}	4084^{+563}_{-428}	$2.884^{+3.091}_{-1.340}$

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

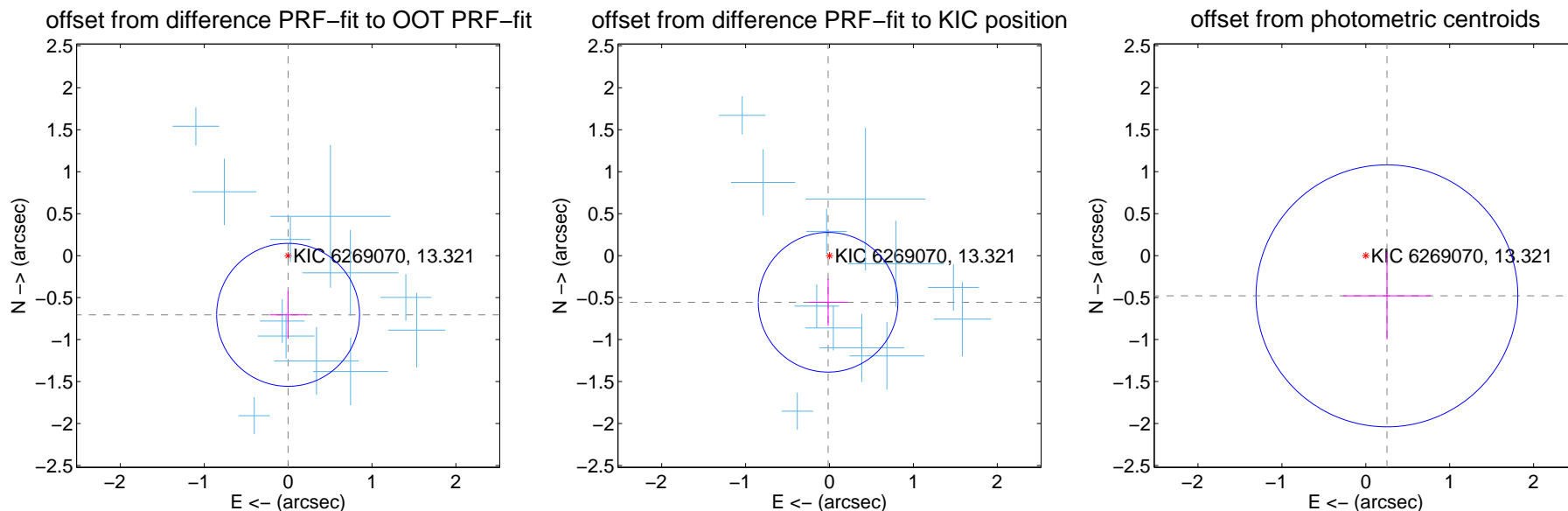
DV Centroid Data

Supplemental centroid analysis for 006269070-01. Kepler magnitude: 13.32. Transit SNR 14.53

There are 12 quarters with good PRF difference image offsets

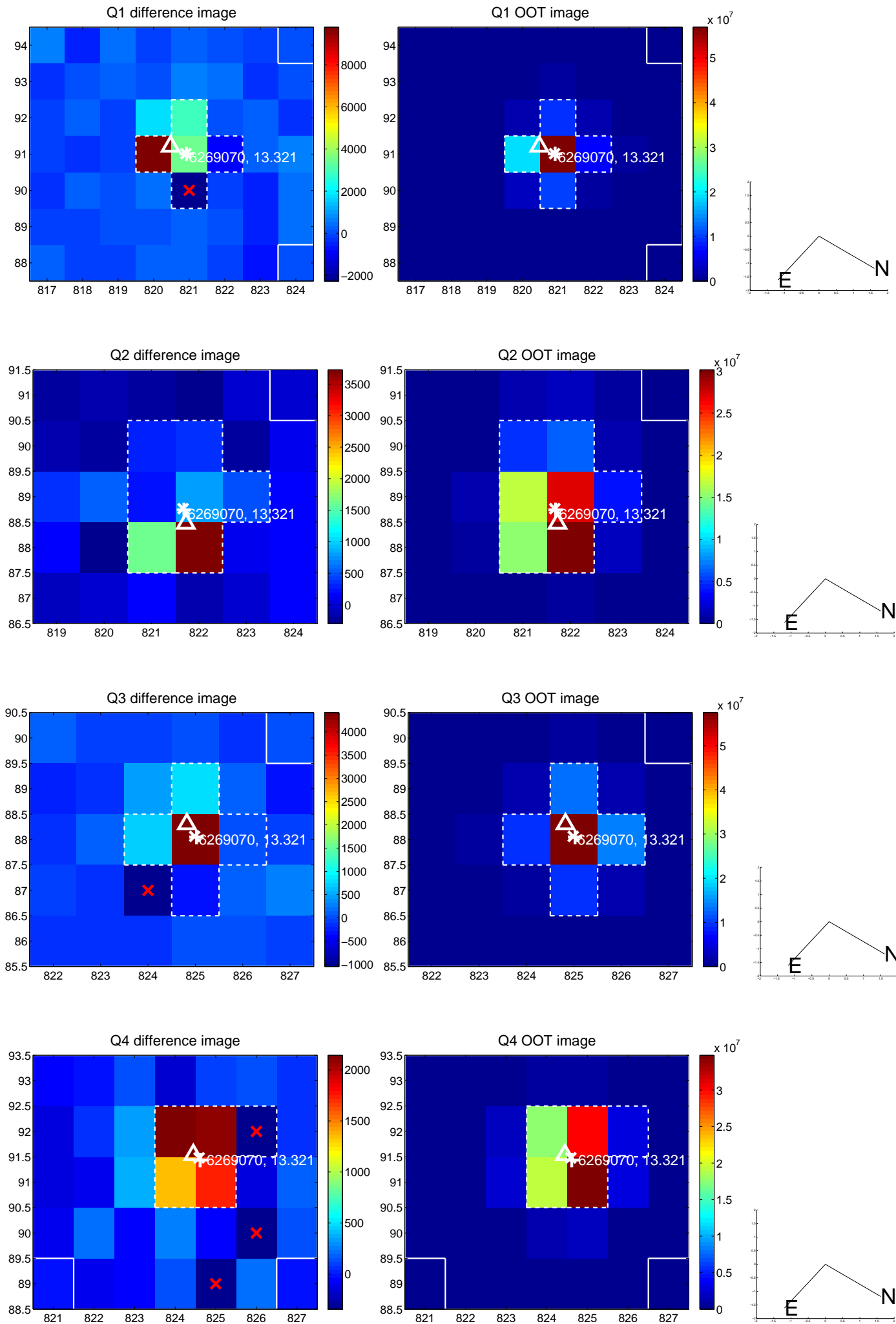
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.705 ± 0.284	2.48	0.000 ± 0.219	-0.705 ± 0.284
PRF-fit source offset from KIC position	0.555 ± 0.277	2.00	0.017 ± 0.229	-0.555 ± 0.280
photometric centroid source offset	0.54 ± 0.52	1.04	-0.25 ± 0.52	-0.48 ± 0.52

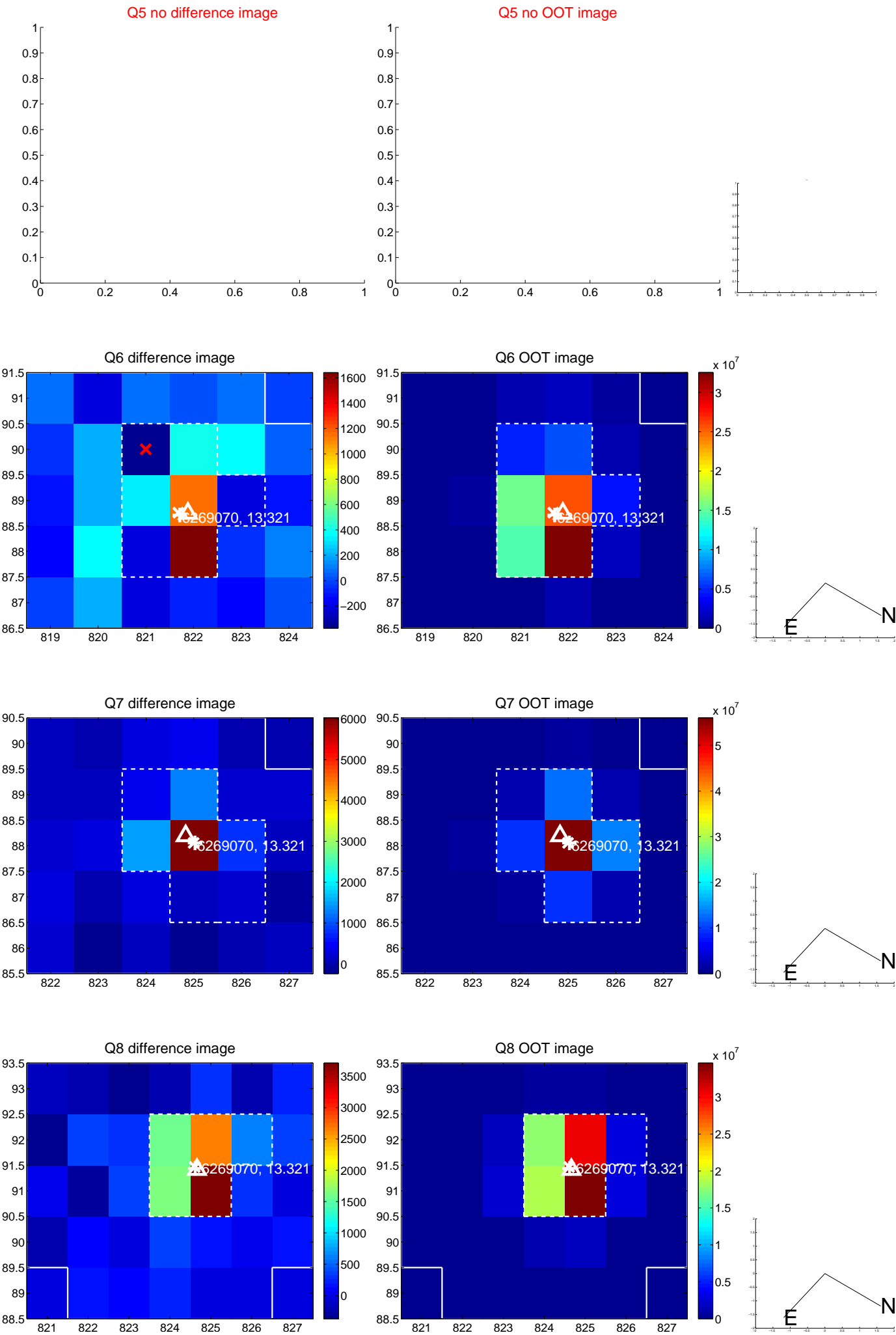


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

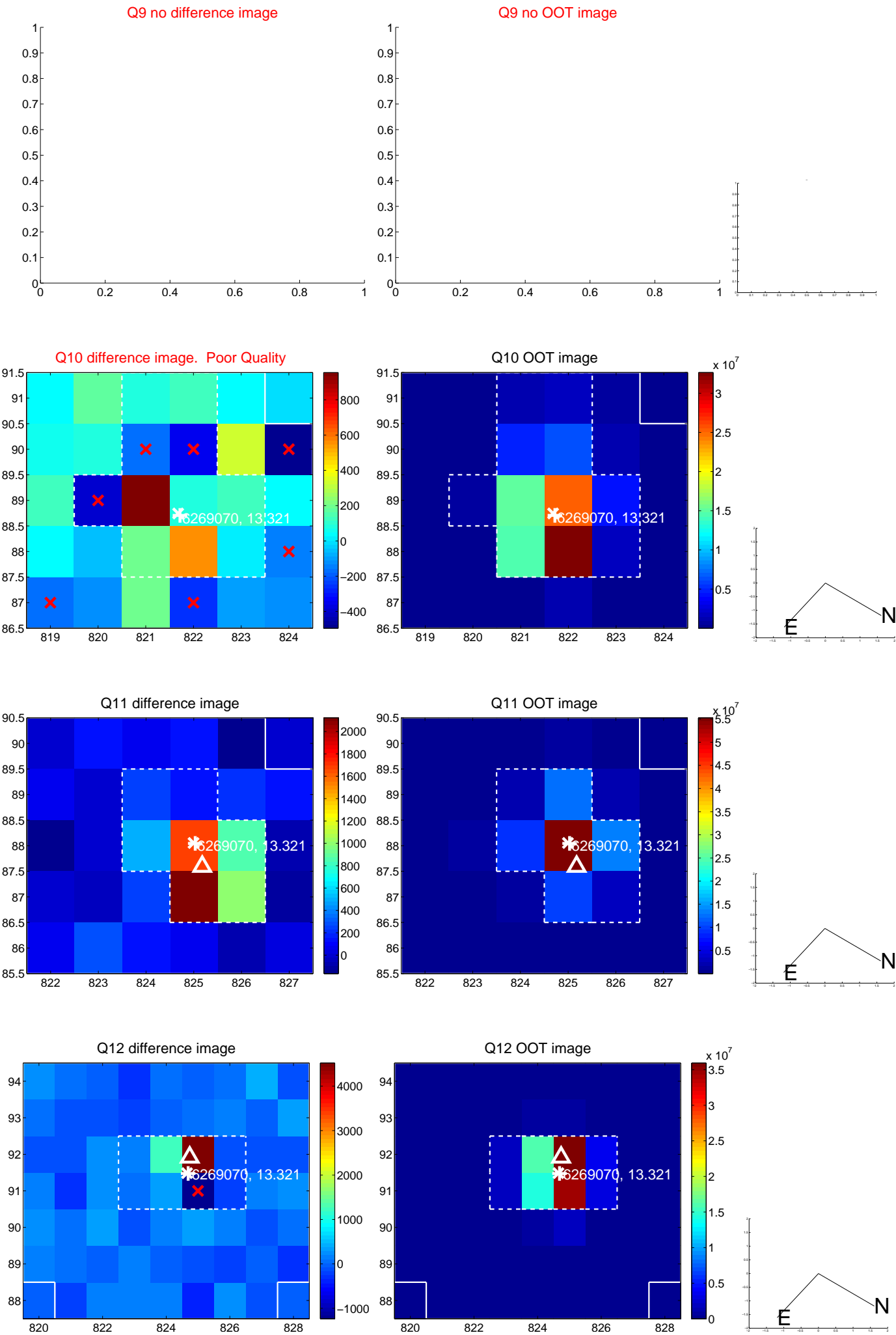
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



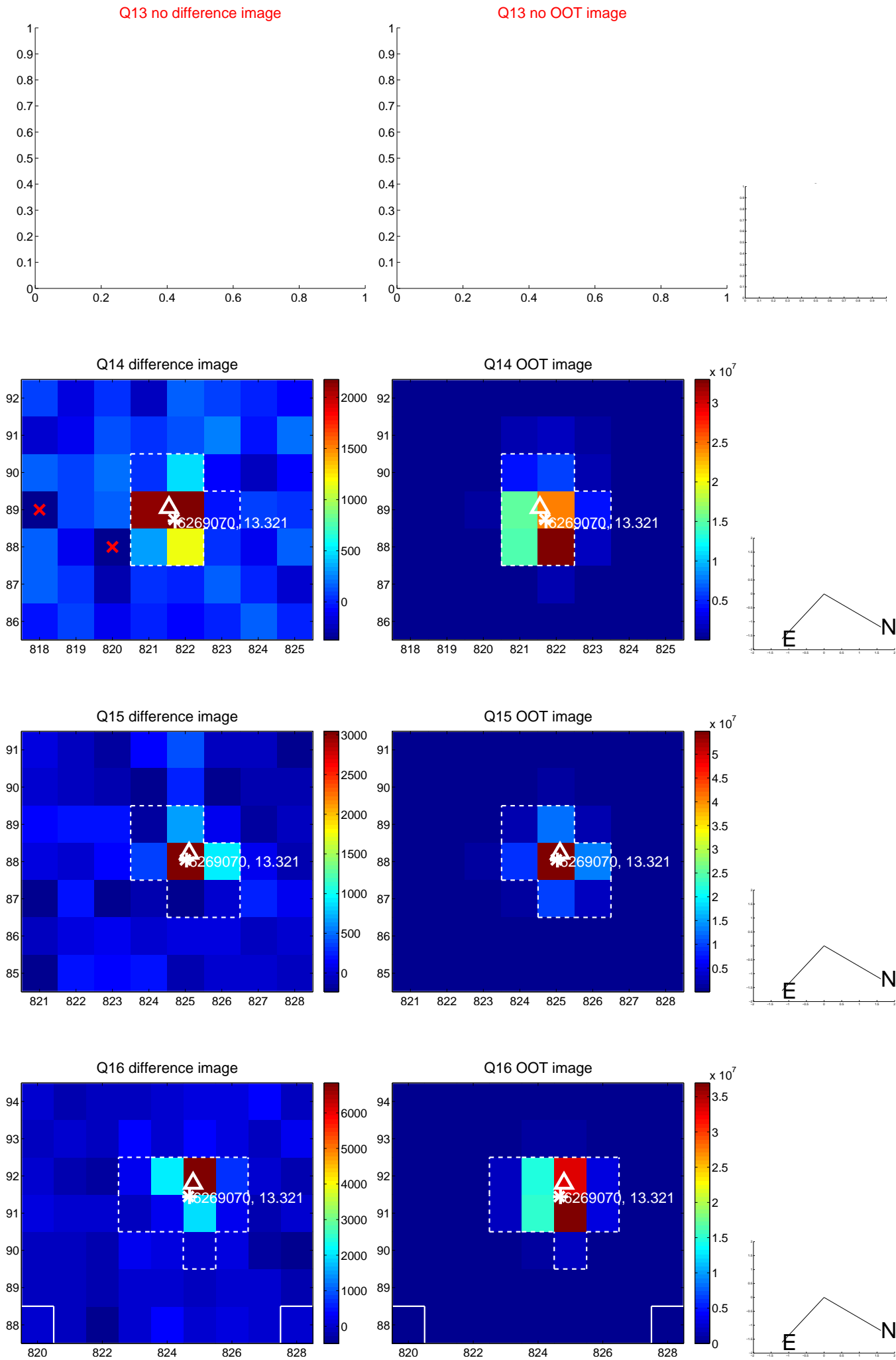
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



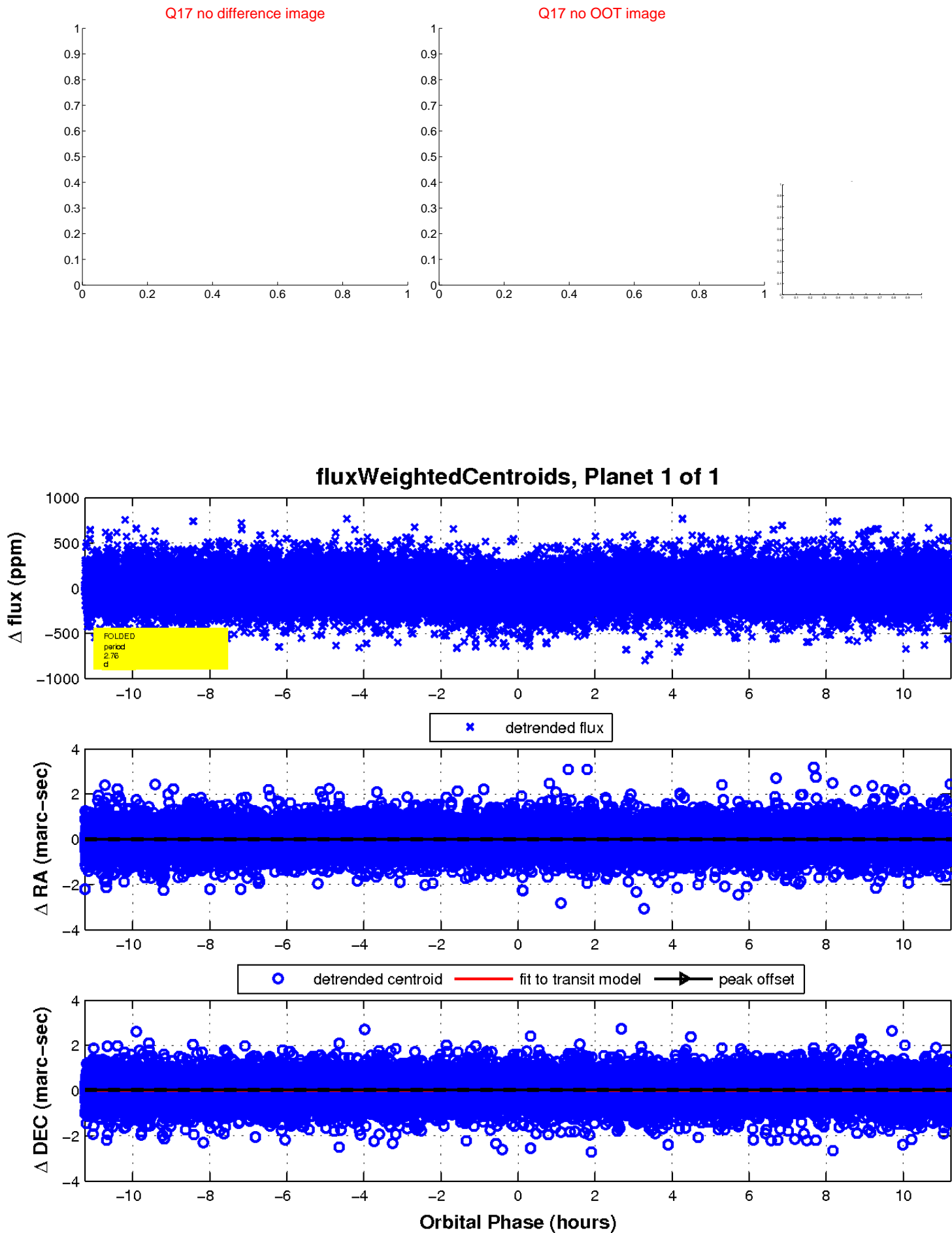
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

