

KIC 008264061

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})
008264061-01	OBS	No	342.094244	403.668045	6512.8	5.767	13.0	8.6	1.85	7454	26.36	7.57
008264061-02	OBS	No	0.668099	132.158609	0.0	5.474	11.6	0.0	1.85	7454	0.04	30991.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264061-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
008264061-02	OBS	FP	0.00	1	0	0	0	LPP_DV

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

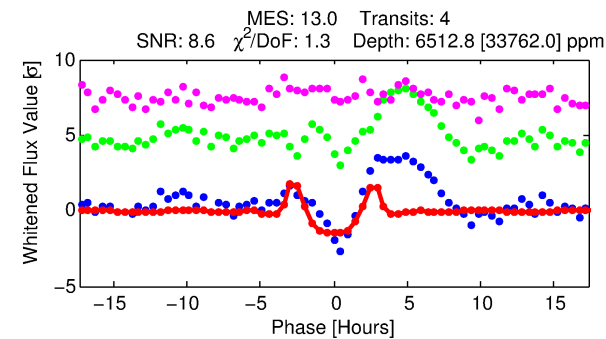
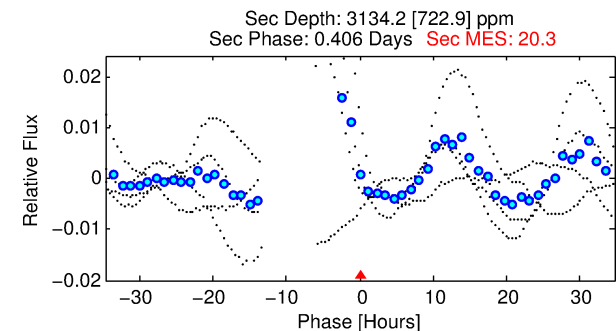
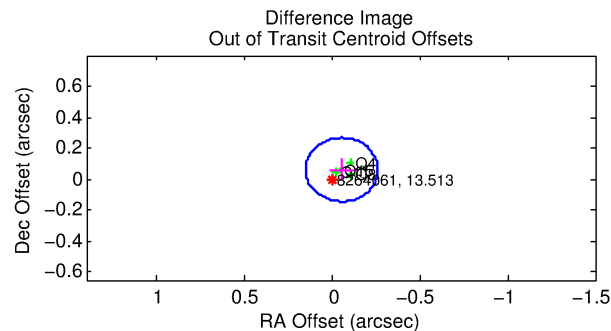
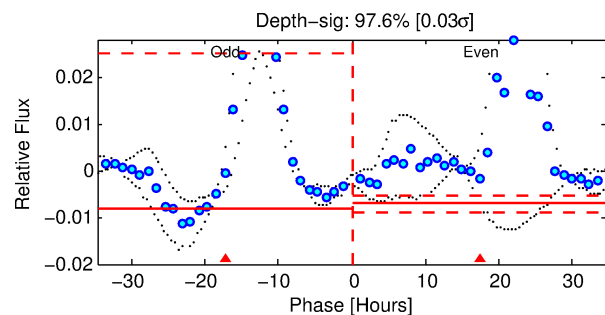
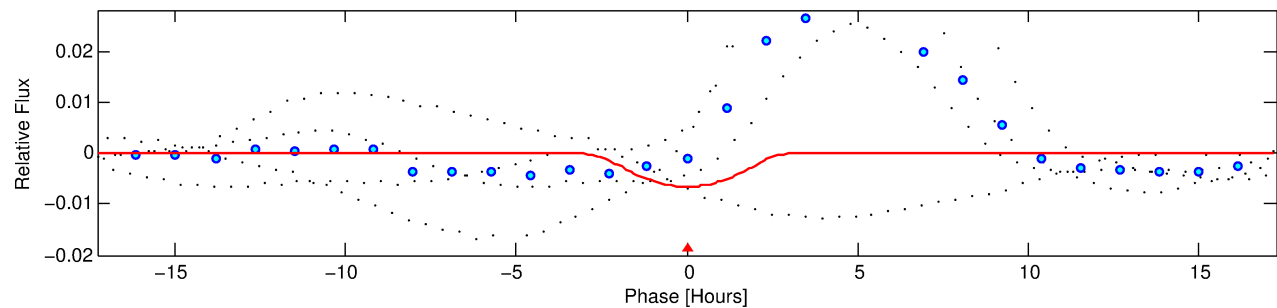
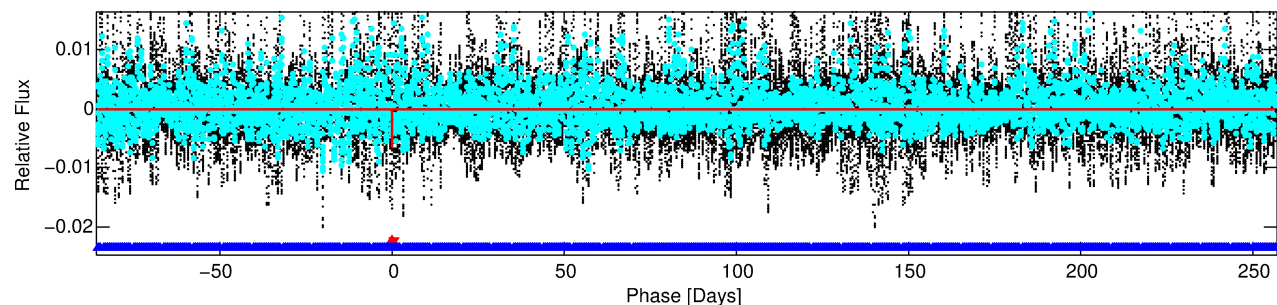
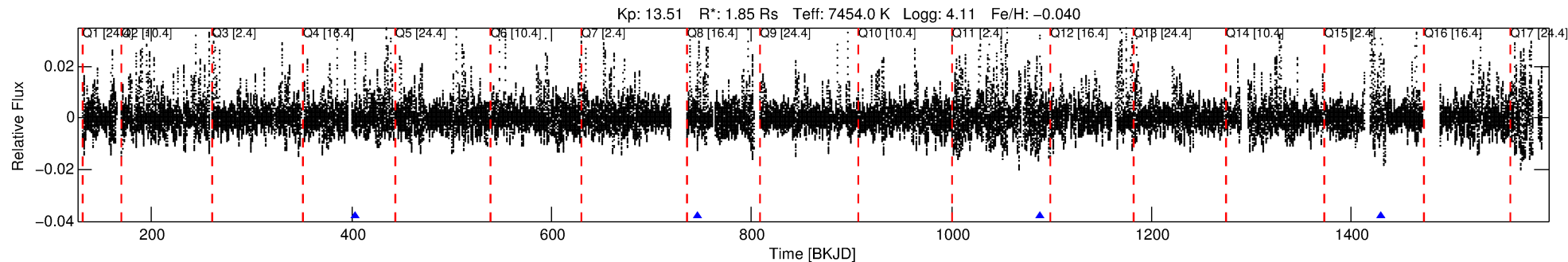
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264061-01

No Significant Match Found

DV One-Page Summary

KIC: 8264061 Candidate: 1 of 2 Period: 342.094 d



DV Fit Results:

Period = 342.09424 [0.00399] d
Epoch = 403.6680 [0.0070] BKJD
Rp/R* = 0.1303 [0.1244]
a/R* = 238.78 [38.29]
b = 1.00 [0.28]
Seff = 7.57 [2.79]
Teq = 423 [39] K
Rp = 26.35 [26.21] Re
a = 1.1204 [0.2589] AU
Ag = 3116.30 [6076.86] [0.51 σ]
Teffp = 4885 [2356] K [1.89 σ]

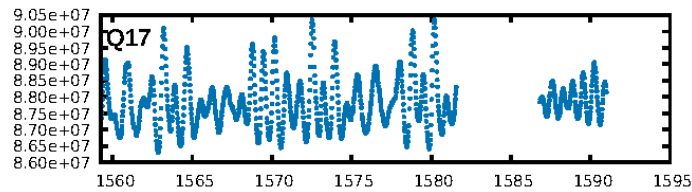
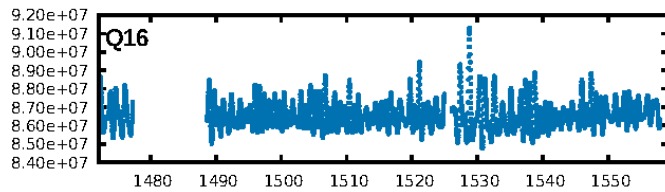
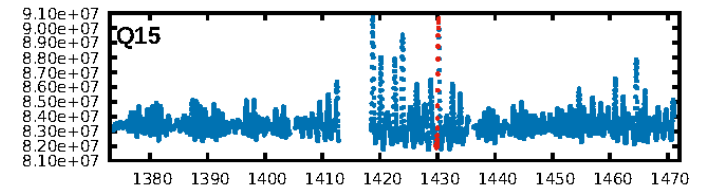
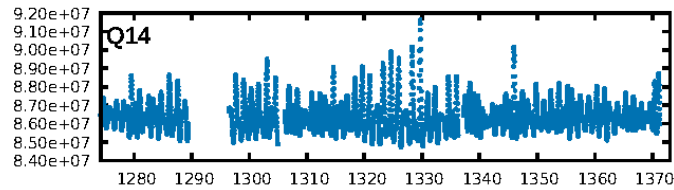
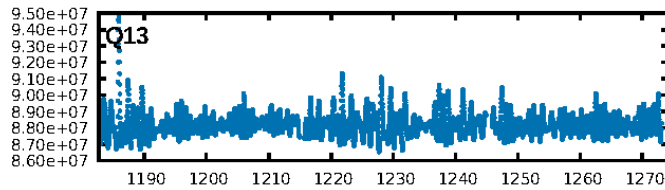
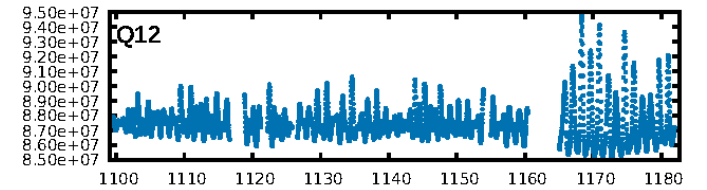
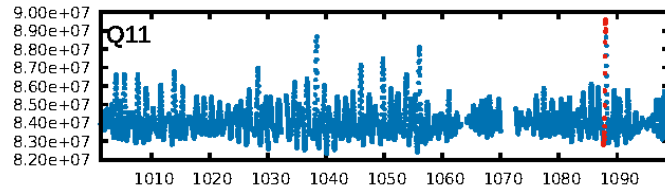
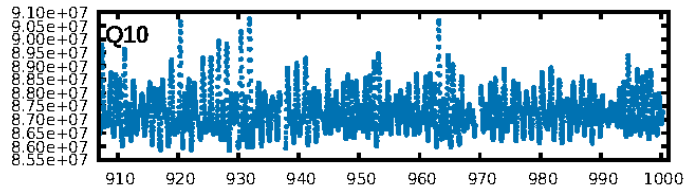
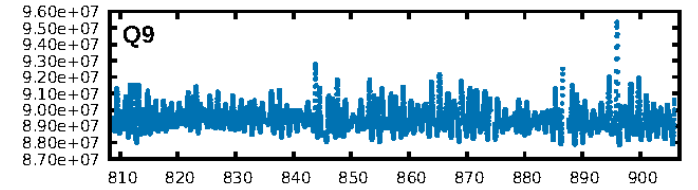
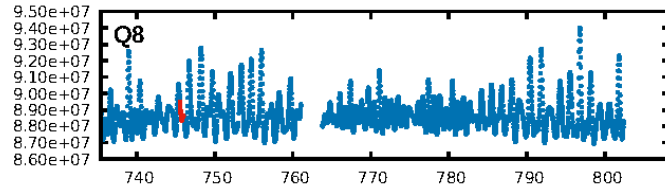
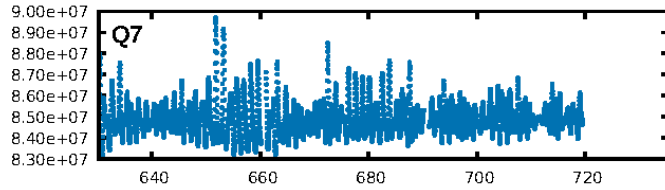
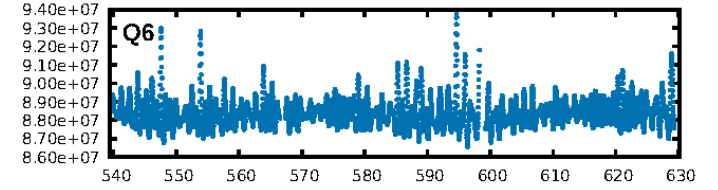
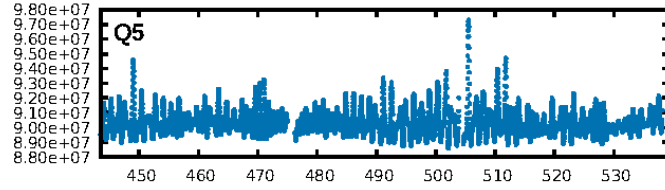
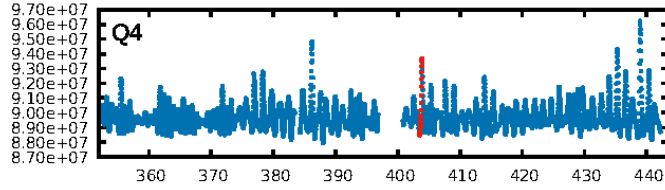
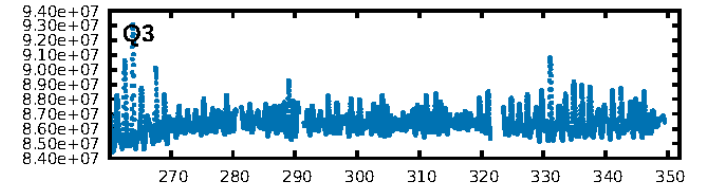
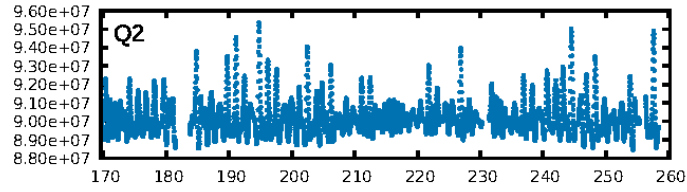
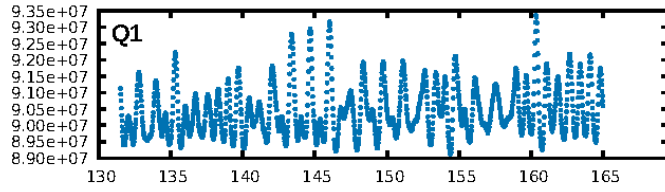
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1030.53 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.2%
ModelChiSquareGoF-sig: 33.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.975
Centroid-sig: 13.2%
Centroid-so: 0.569 arcsec [4.73 σ]
OotOffset-rm: 0.083 arcsec [1.21 σ]
KicOffset-rm: 0.064 arcsec [0.89 σ]
OotOffset-st: 0/2/2/0 [4]
KicOffset-st: 0/2/2/0 [4]
DiffImageQuality-fgm: 1.00 [4/4]
DiffImageOverlap-fno: 0.00 [0/4]

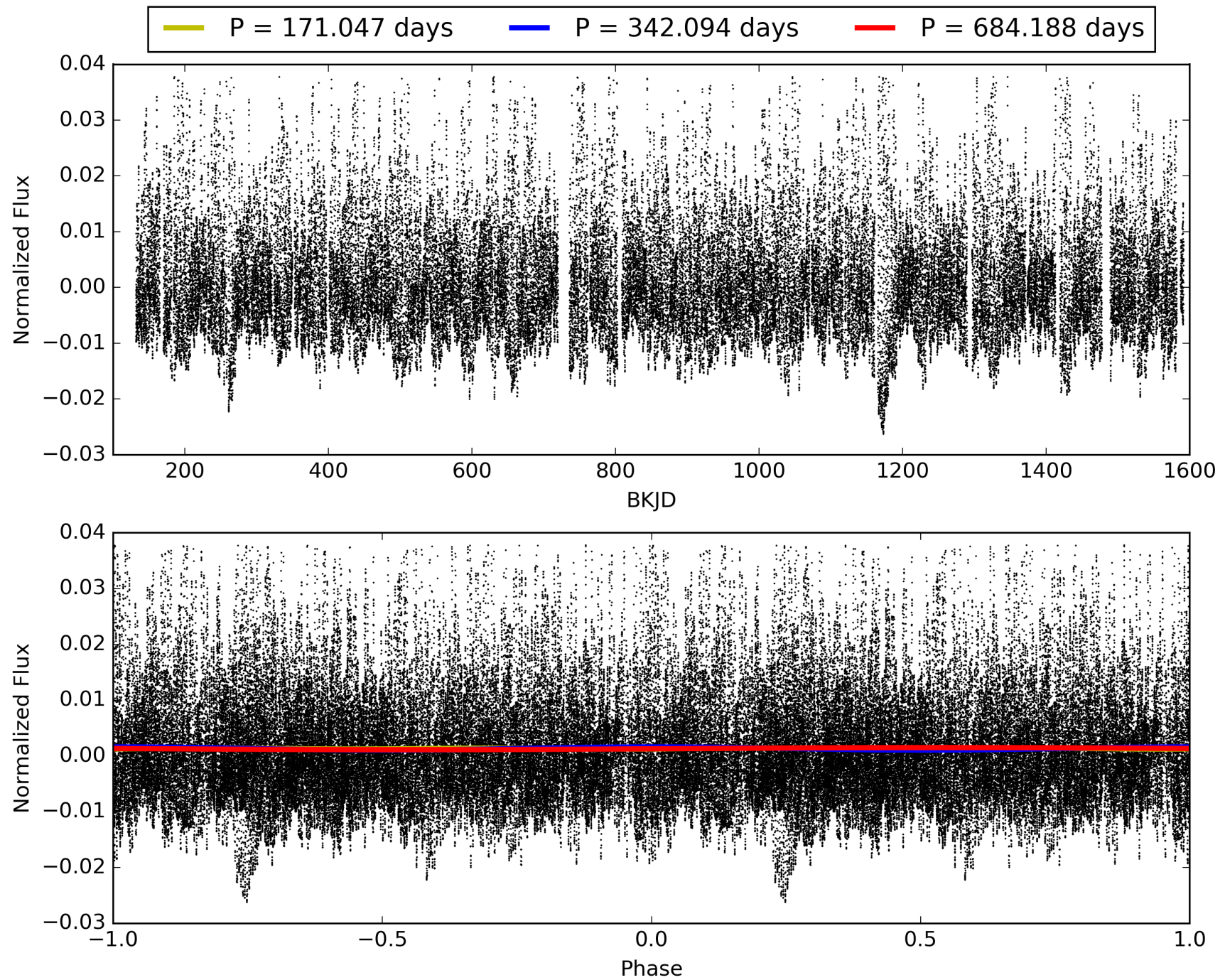
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:19:05 Z

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

TCE 008264061-01, PDC Light Curves

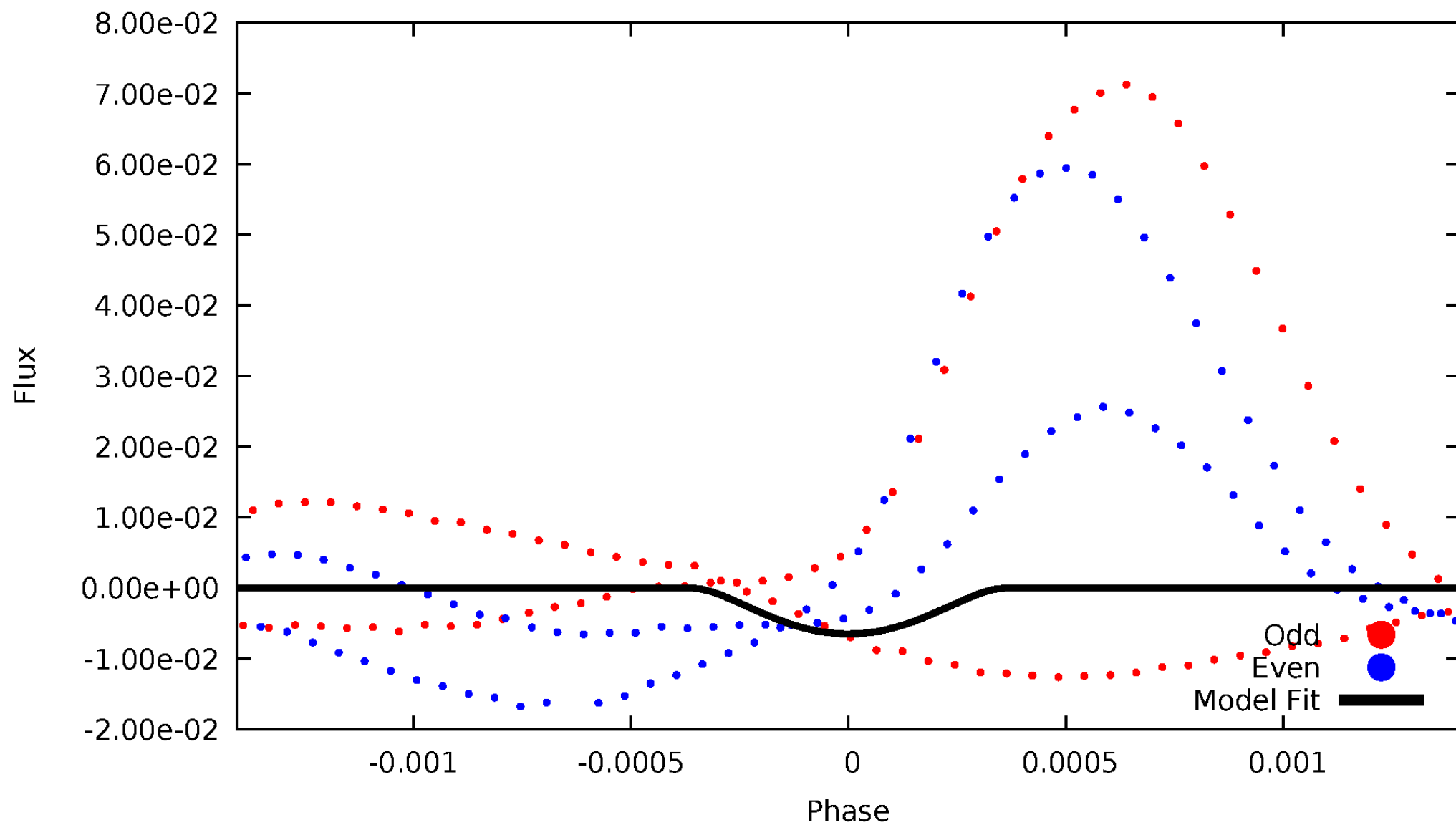


TCE 008264061-01



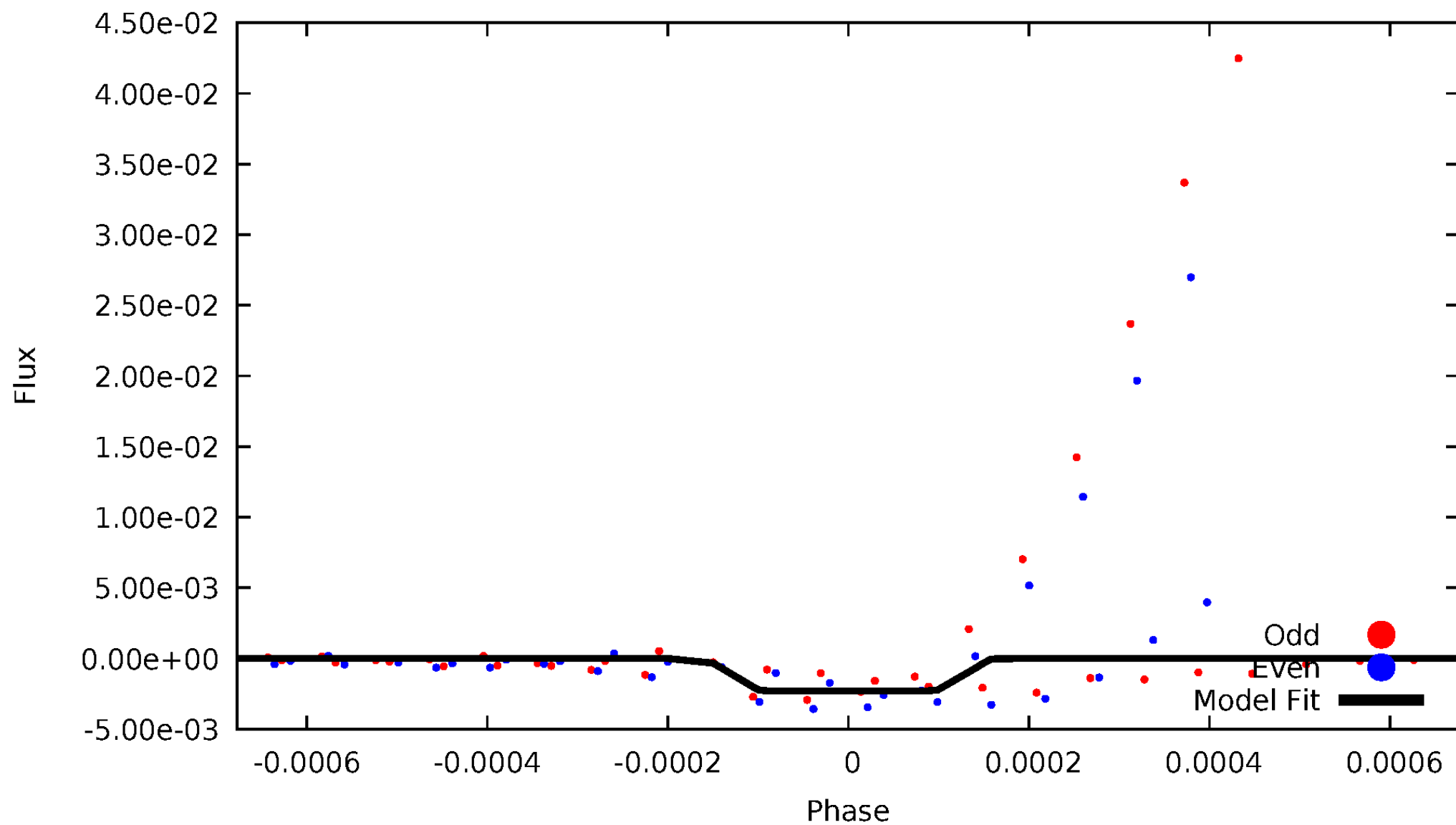
DV Odd/Even

TCE 008264061-01



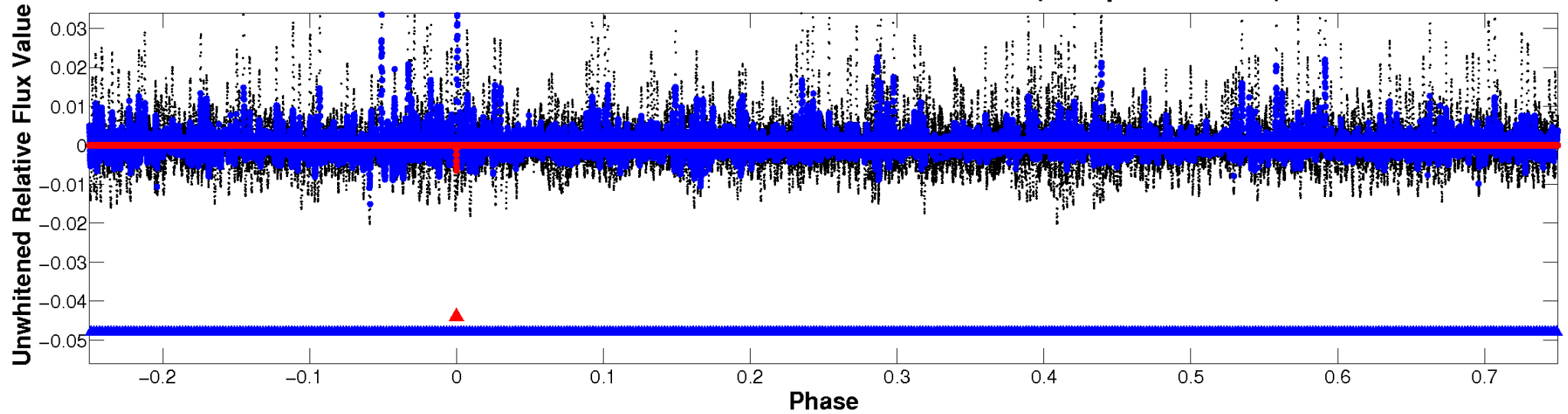
ALT Odd/Even

TCE 008264061-01

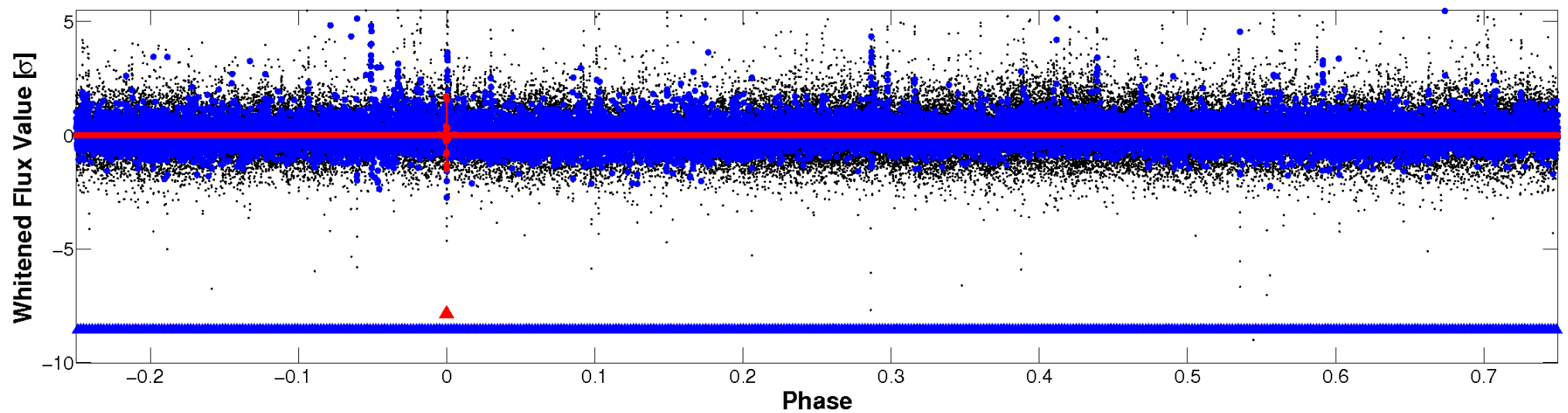


Non-Whitened Vs. Whitened Light Curve

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

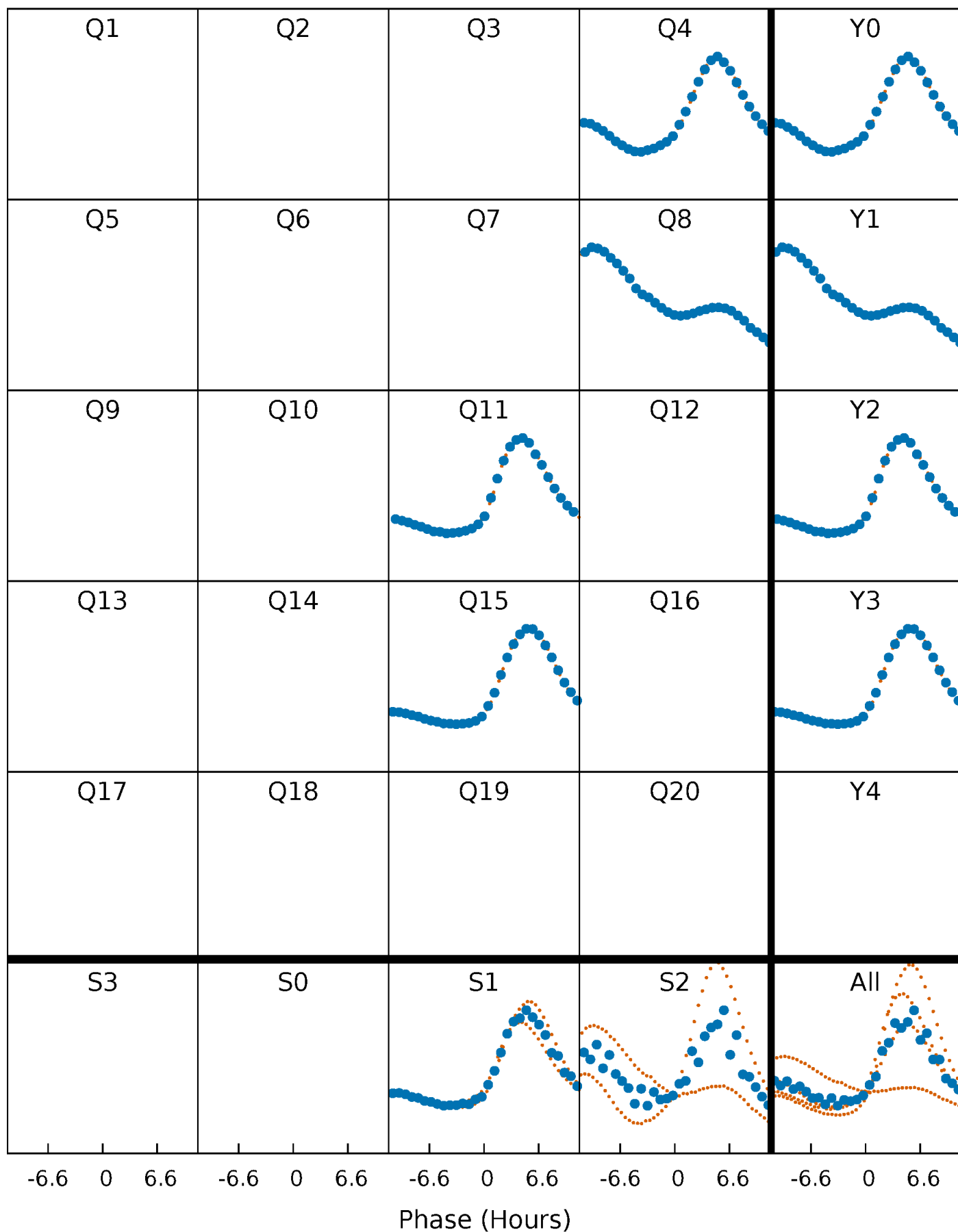


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



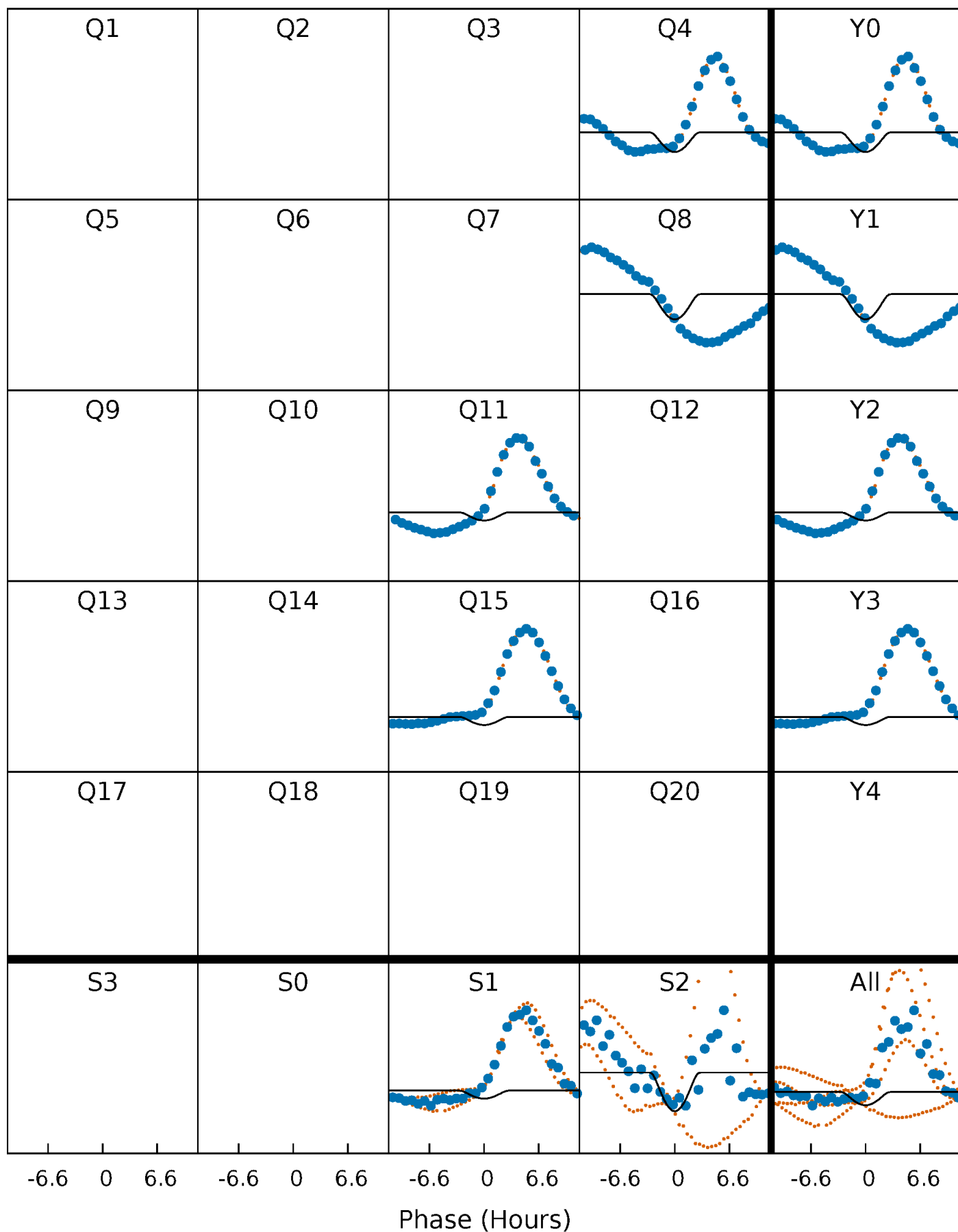
PDC Quarter-Phased Transit Curves

TCE 008264061-01 P=342.094244 Days $T_0=403.668045$ (BKJD)



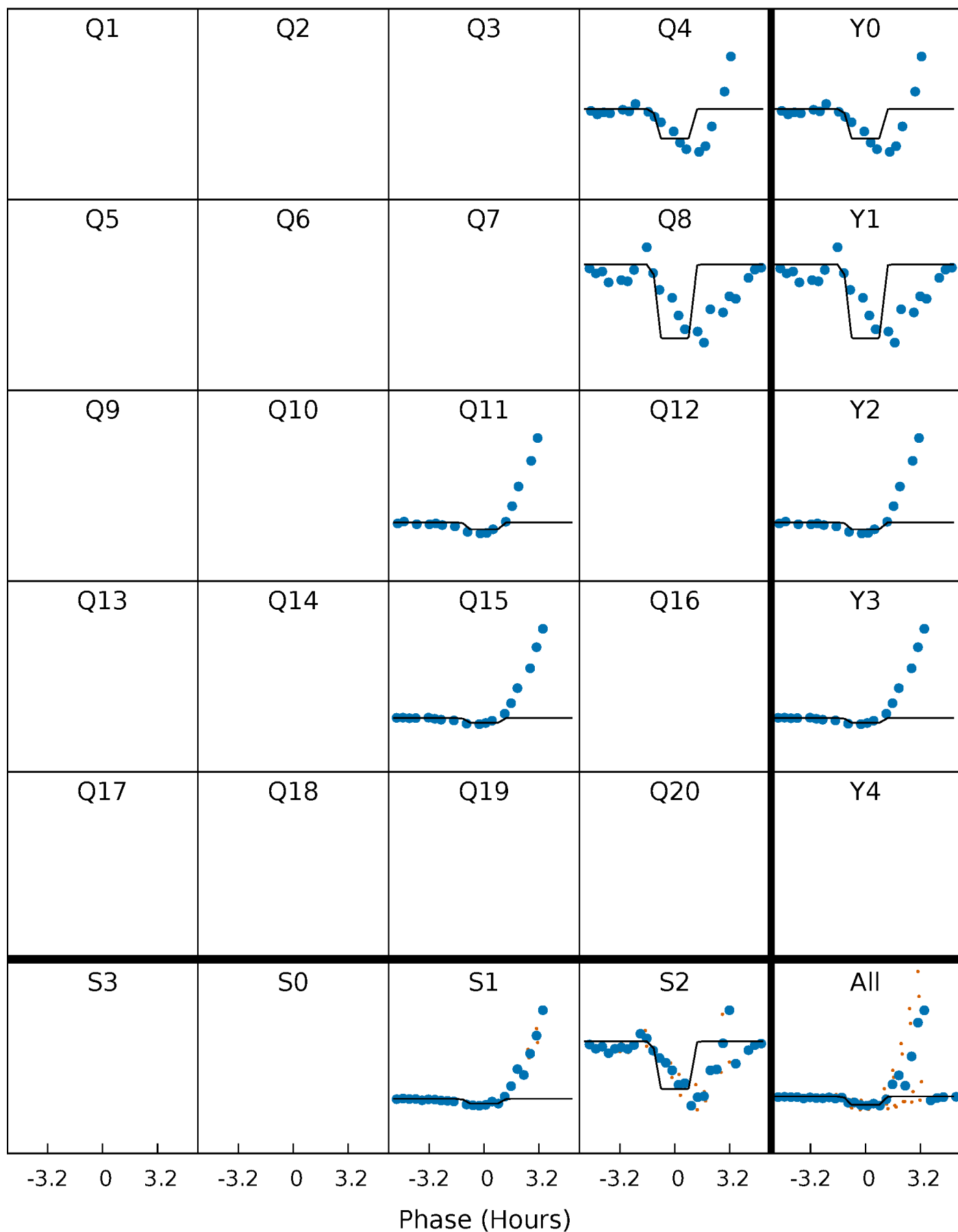
DV Quarter-Phased Transit Curves

TCE 008264061-01 P=342.094244 Days $T_0=403.668045$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

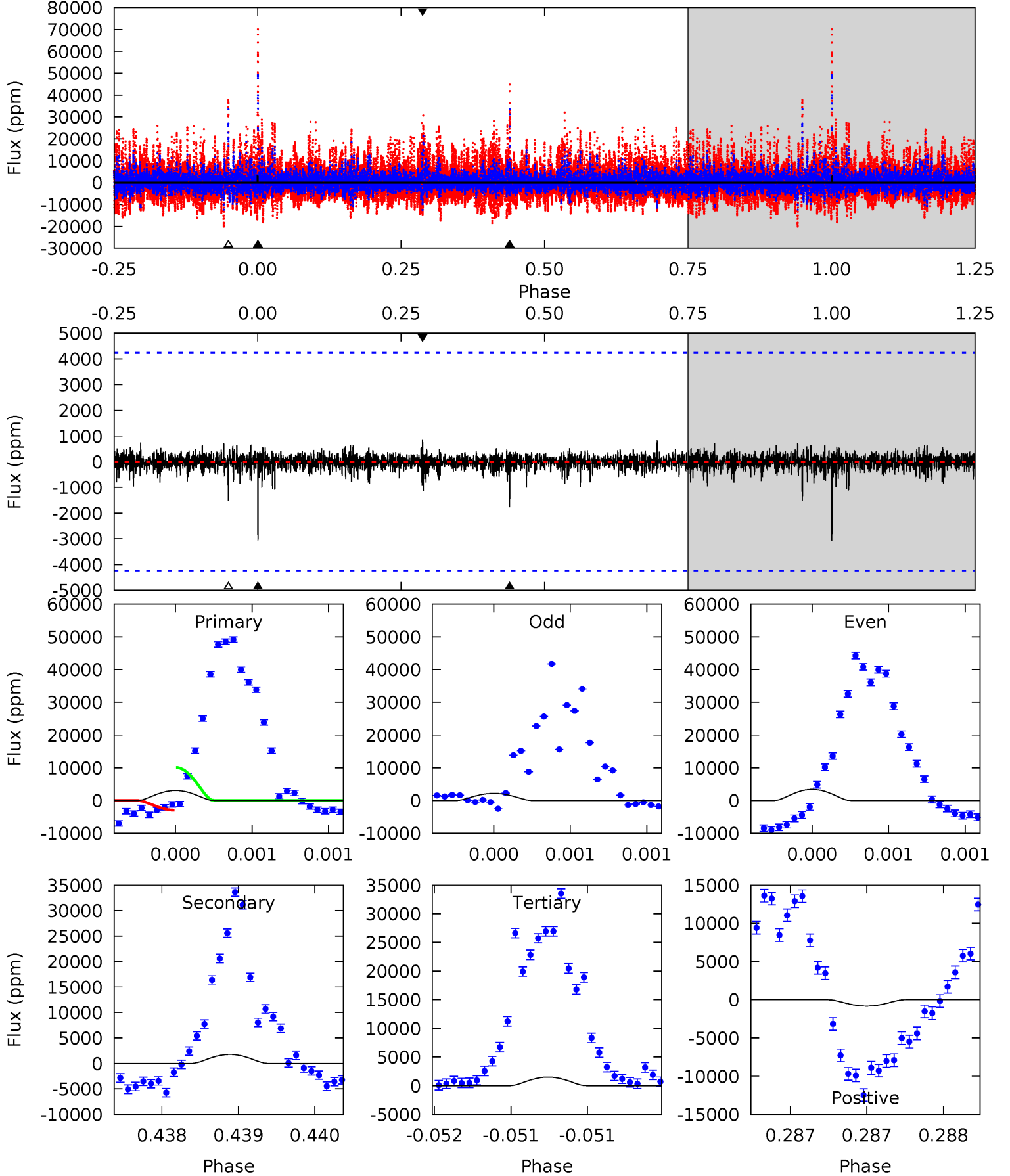
TCE 008264061-01 P=342.103181 Days $T_0=403.609938$ (BKJD)



DV Model-Shift Uniqueness Test

008264061-01, $P = 342.094244$ Days, $E = 61.573801$ Days

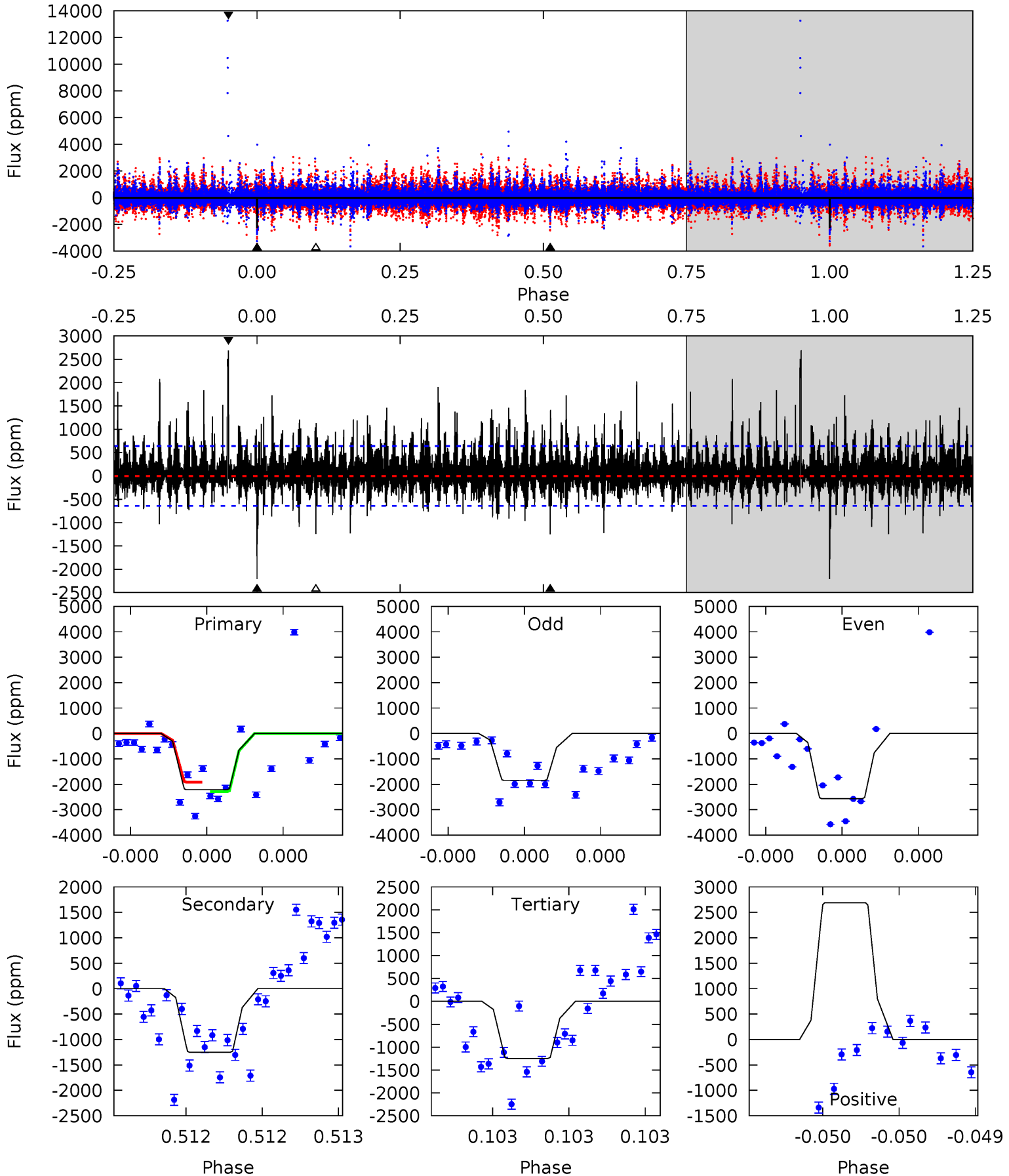
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.00	2.29	1.96	1.08	5.51	3.38	0.29	2.04	2.92	0.33	1.22	0.71	0.82	0.21	4.64



Alt Model-Shift Uniqueness Test

008264061-01, $P = 342.103181$ Days, $E = 61.506757$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.5	11.0	11.0	23.7	5.64	3.59	2.73	8.51	-4.22	0.04	-12.7	2.72	1.03	0.55	1.63



Stellar Parameters For KIC 008264061

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7454^{+207}_{-311}	$4.107^{+0.144}_{-0.176}$	$-0.040^{+0.200}_{-0.350}$	$1.853^{+0.521}_{-0.426}$	$1.602^{+0.213}_{-0.260}$	$0.354^{+0.261}_{-0.174}$
	+3%/-4%	+4%/-4%	+500%/-875%	+28%/-23%	+13%/-16%	+74%/-49%
Source	KIC0	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 008264061-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1764 ± 769	$32.82^{+24.69}_{-22.29}$	592^{+48}_{-40}	3991^{+2294}_{-705}	1015^{+8551}_{-708}
Alt.	-1249 ± 113	$21.29^{+21.49}_{-14.07}$	593^{+43}_{-36}	4511^{+2944}_{-1019}	1927^{+14906}_{-1468}

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 $A_{obs} \gg 1.0$

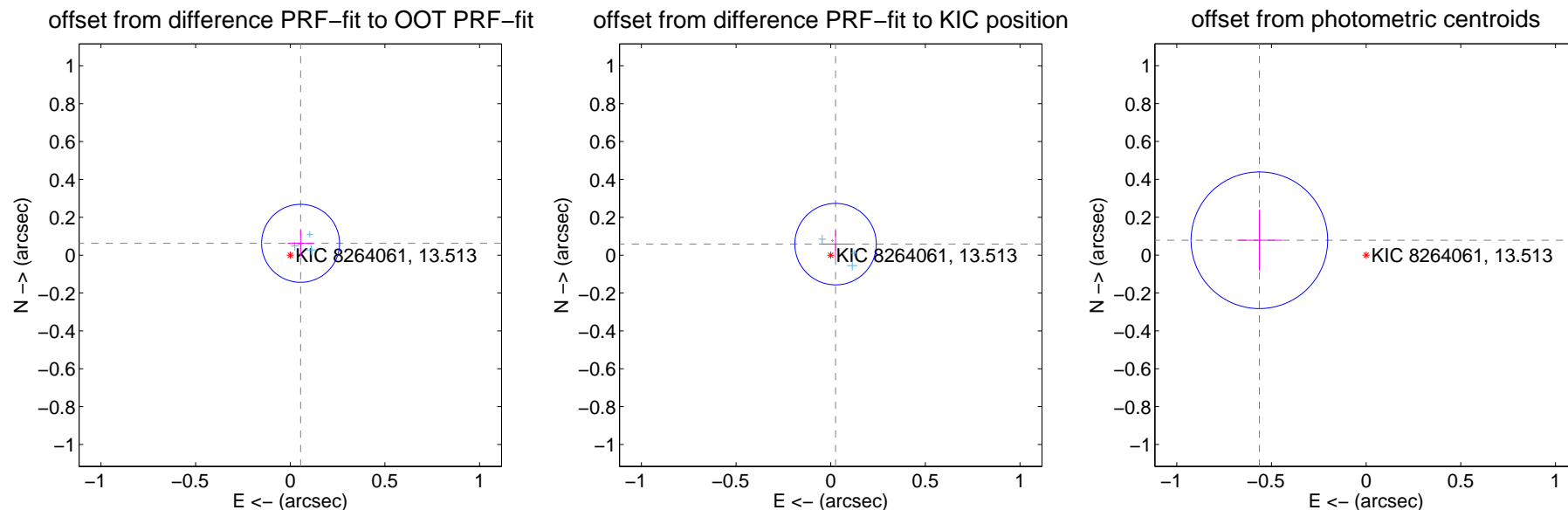
DV Centroid Data

Supplemental centroid analysis for 008264061-01. Kepler magnitude: 13.51. Transit SNR 8.61

There are 4 quarters with good PRF difference image offsets

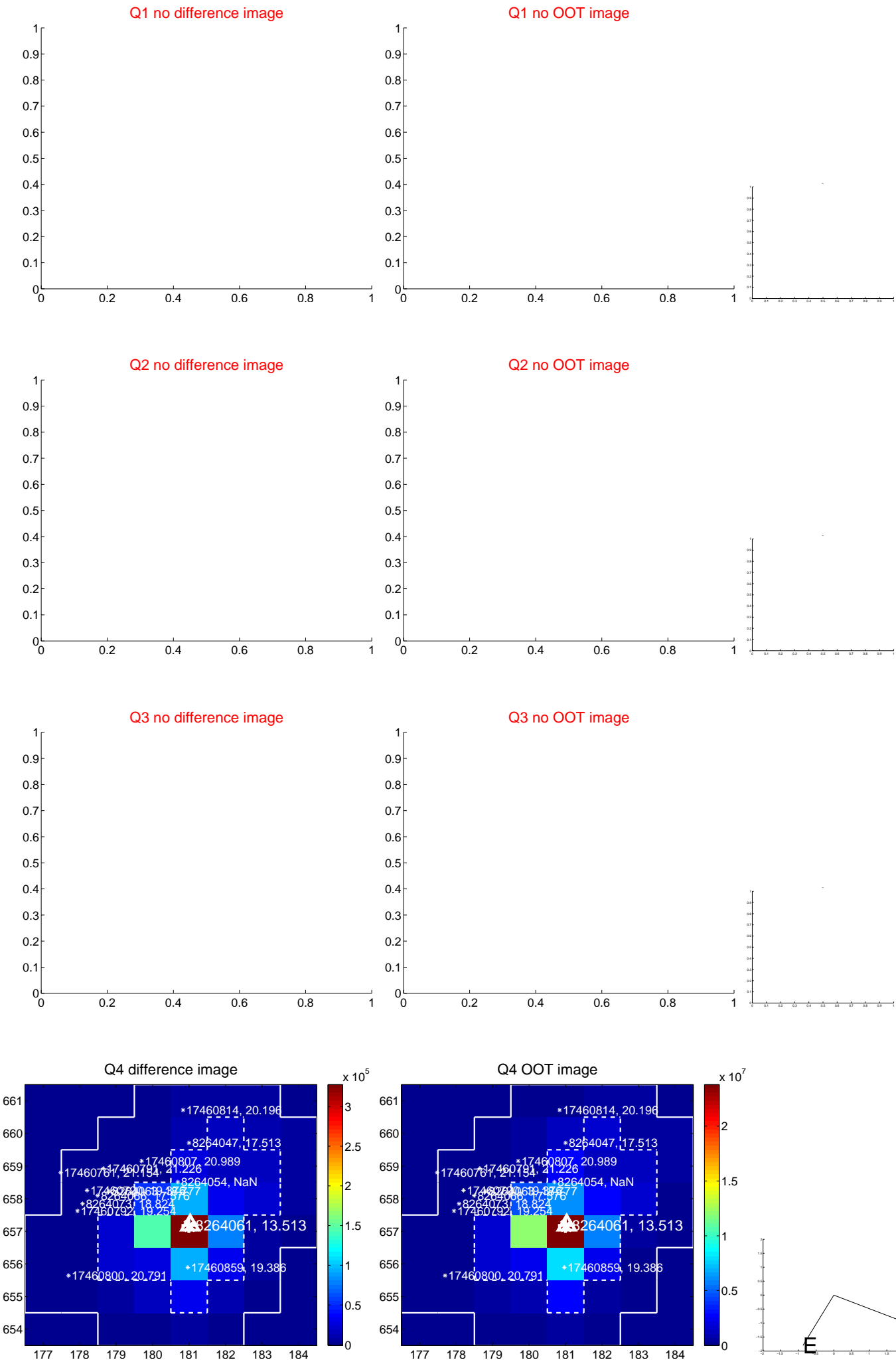
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.083 ± 0.069	1.21	-0.054 ± 0.068	0.063 ± 0.069
PRF-fit source offset from KIC position	0.064 ± 0.072	0.89	-0.026 ± 0.075	0.058 ± 0.071
photometric centroid source offset	0.57 ± 0.12	4.73	0.56 ± 0.12	0.08 ± 0.16

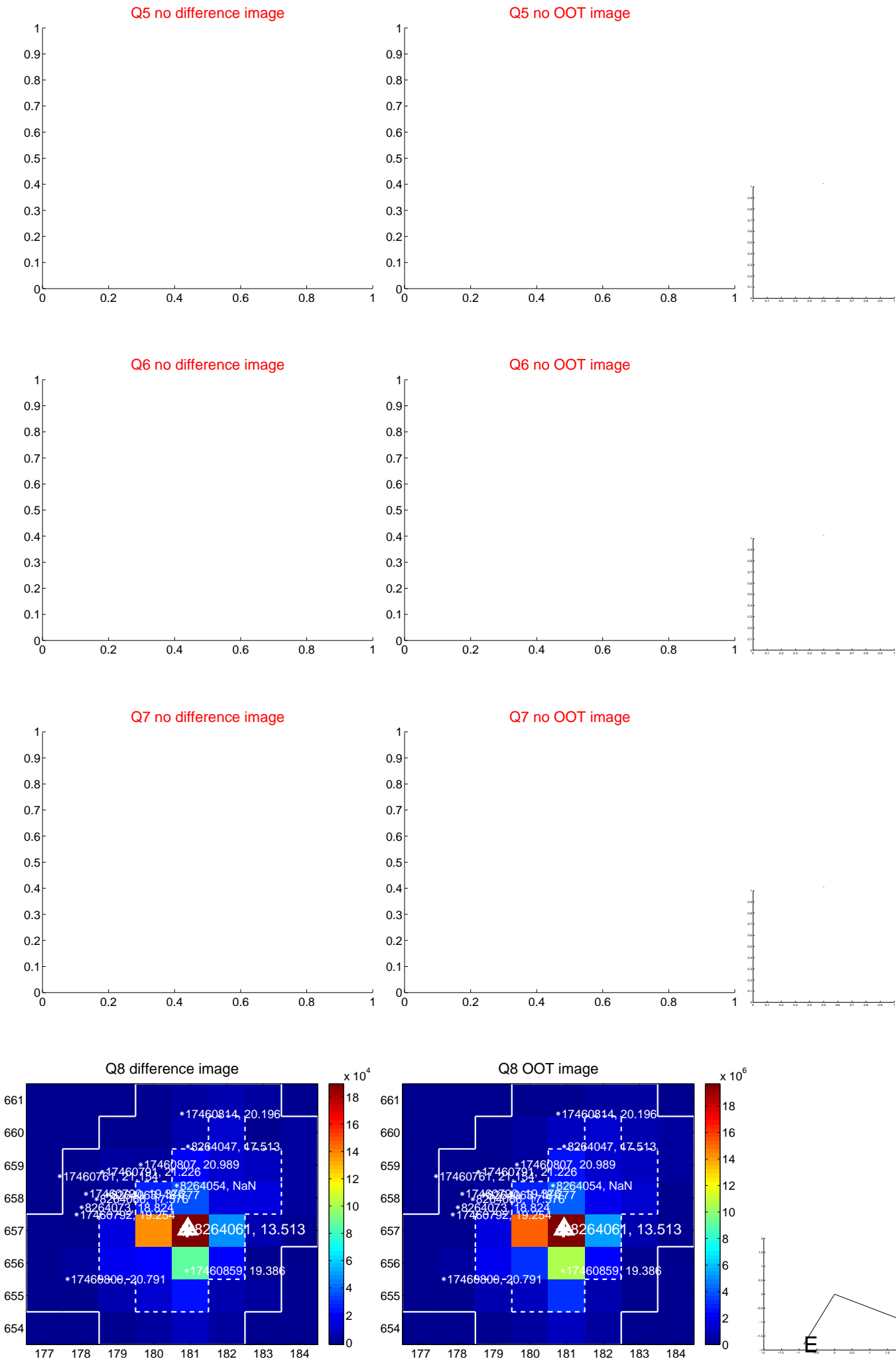


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

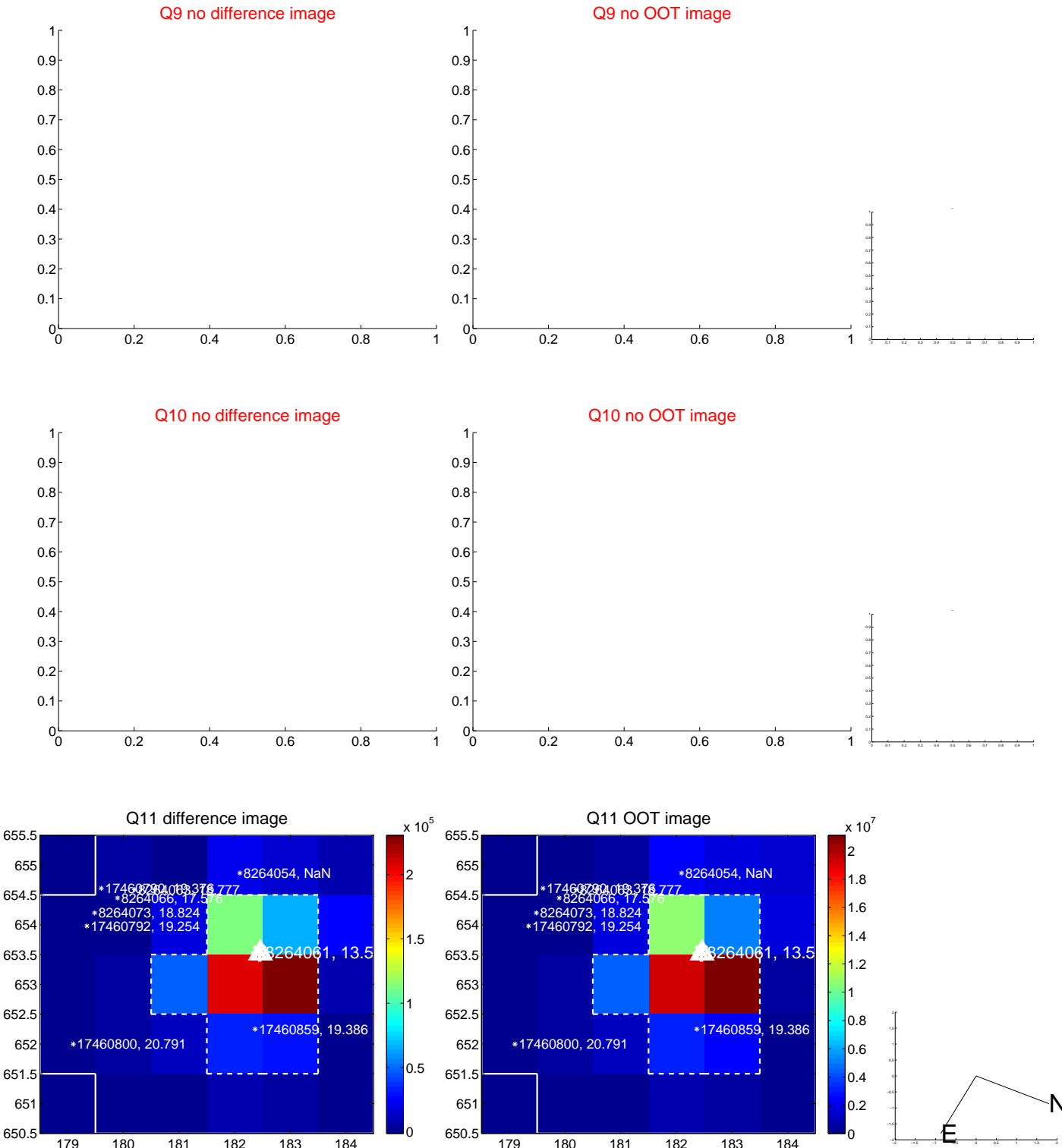
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



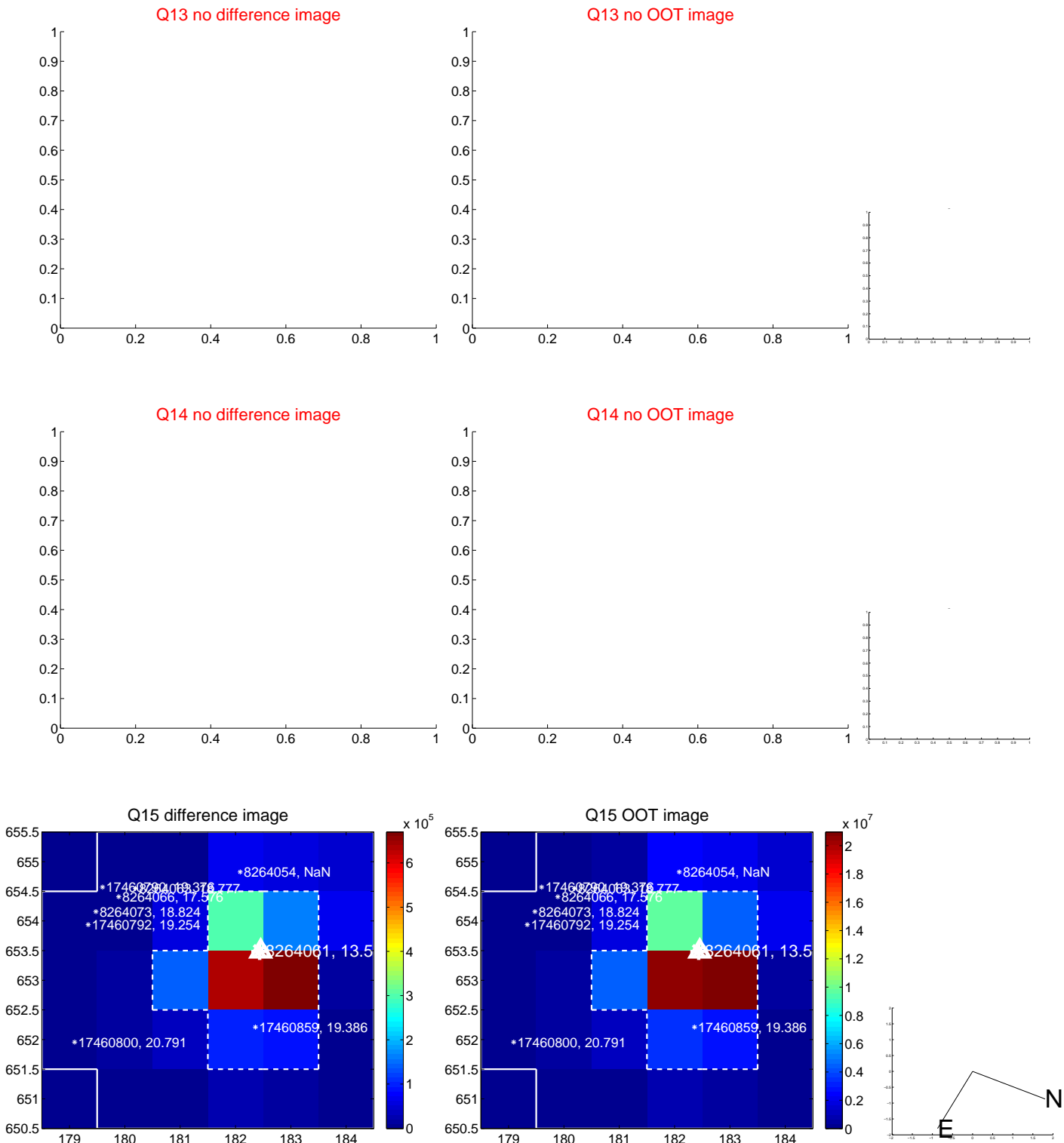
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



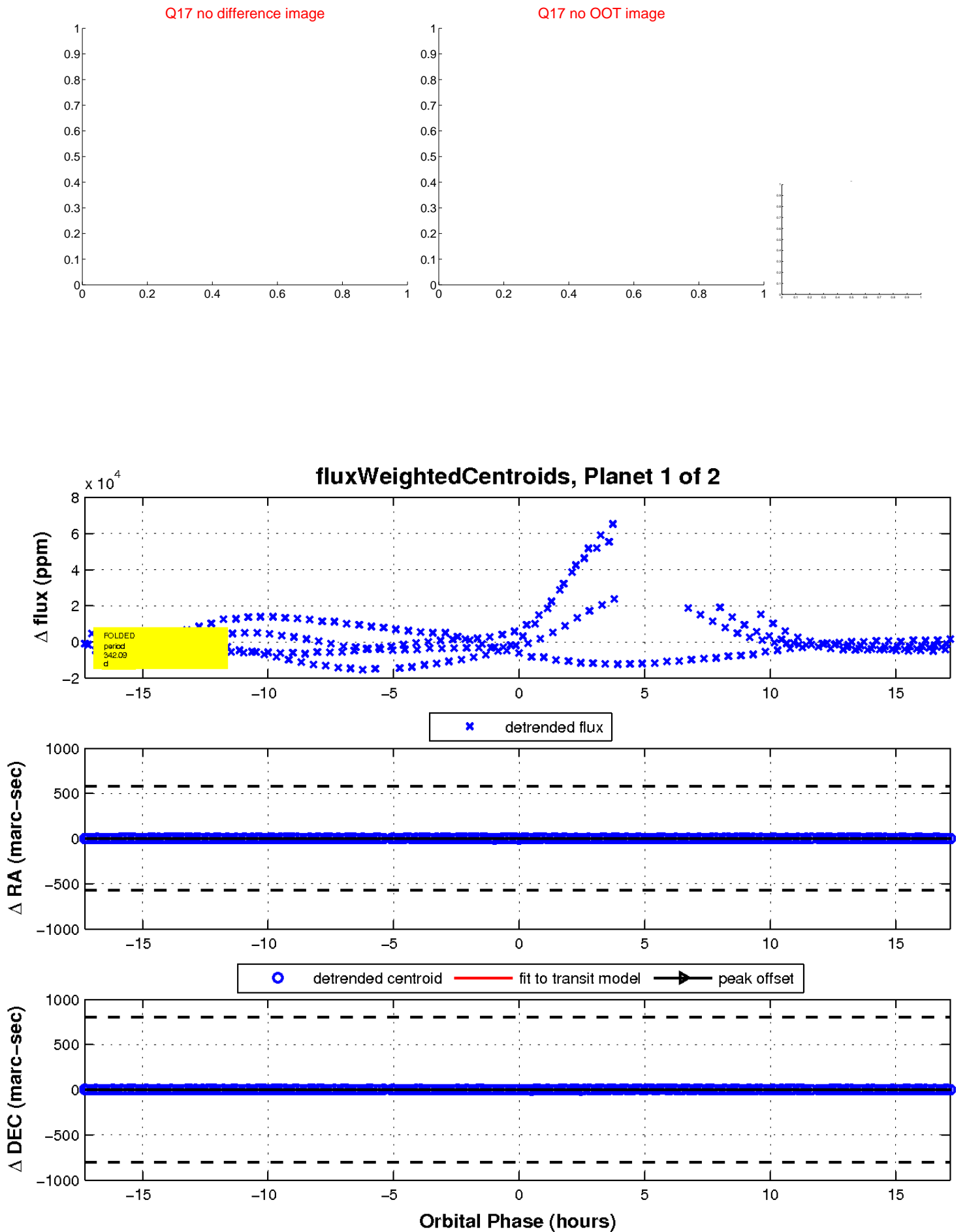
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

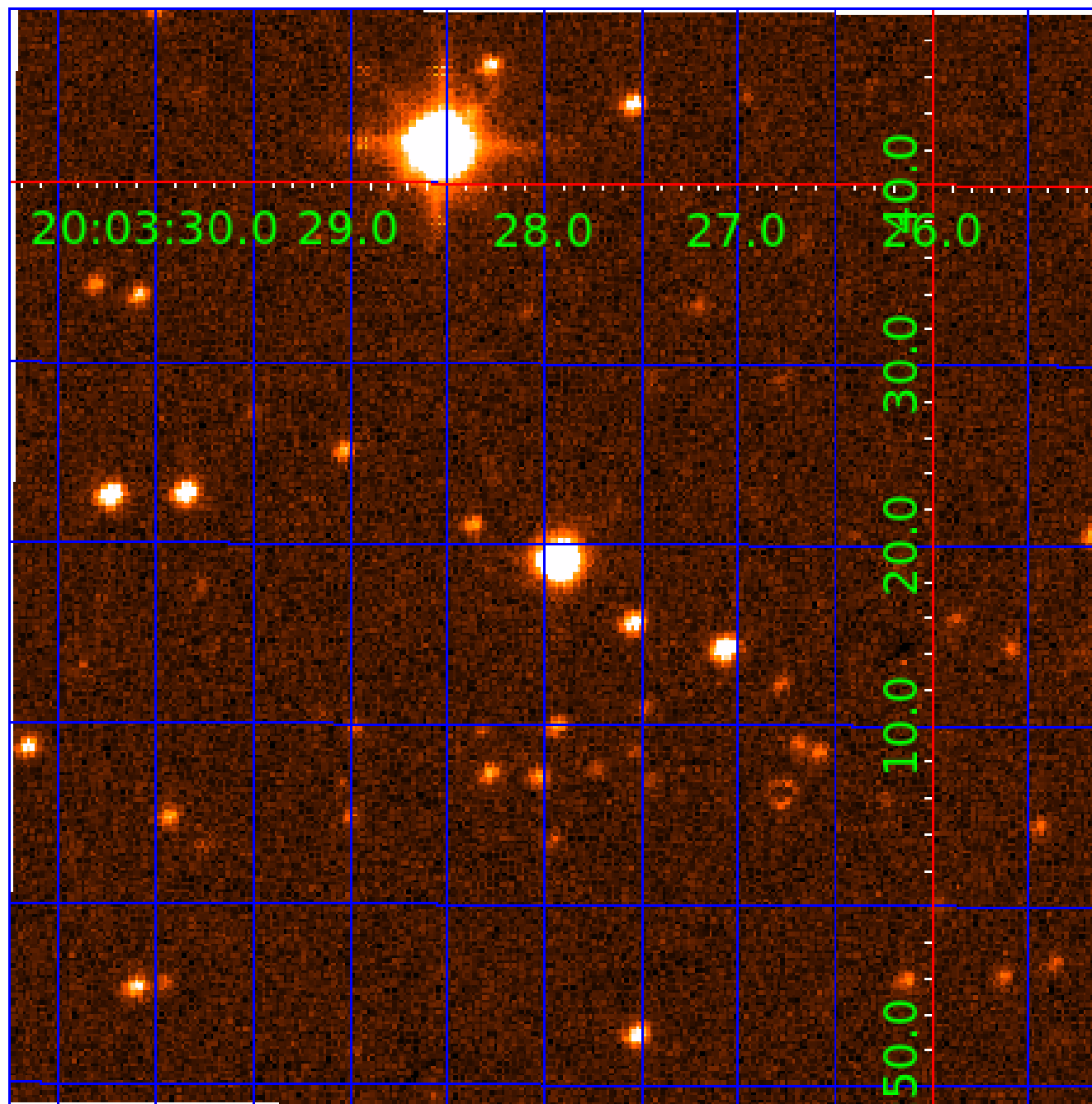


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264061

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})
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Robovetter Results

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008264061-02	OBS	FP	0.00	1	0	0	0	LPP_DV

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

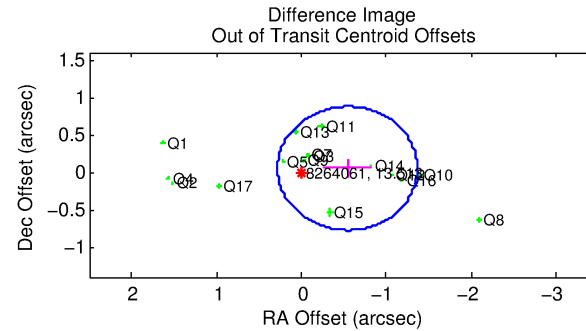
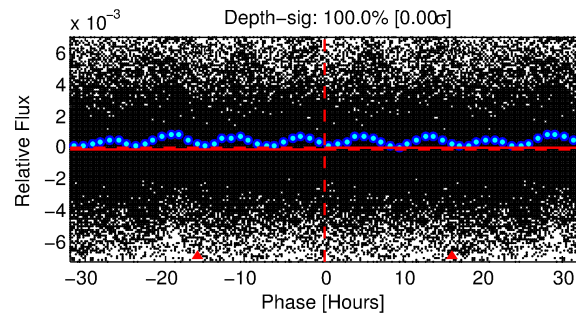
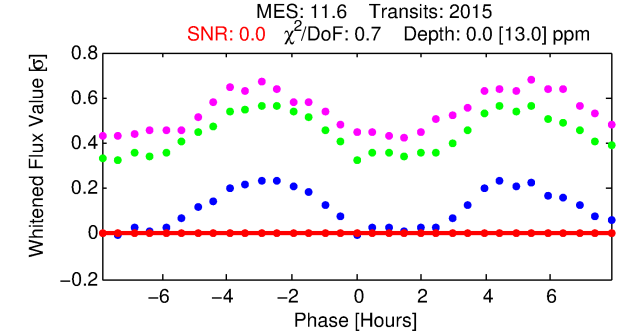
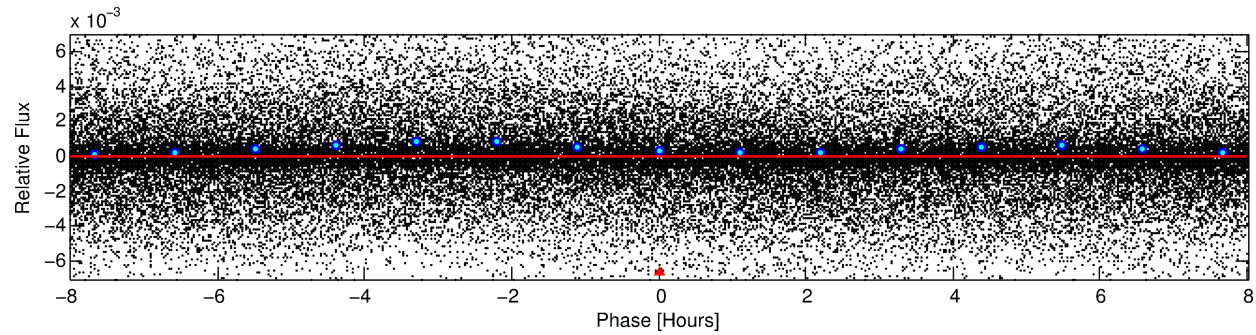
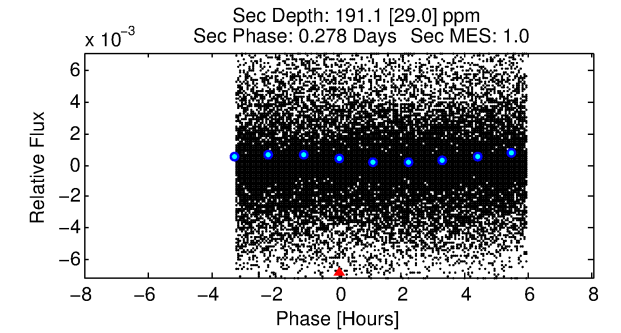
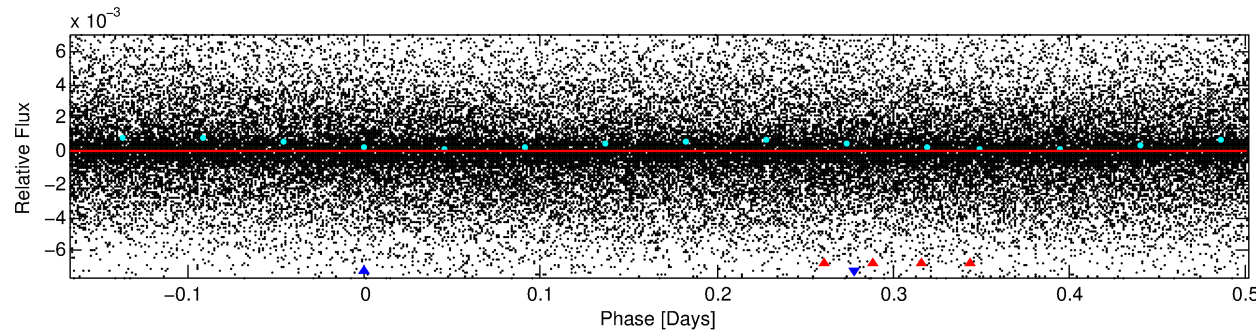
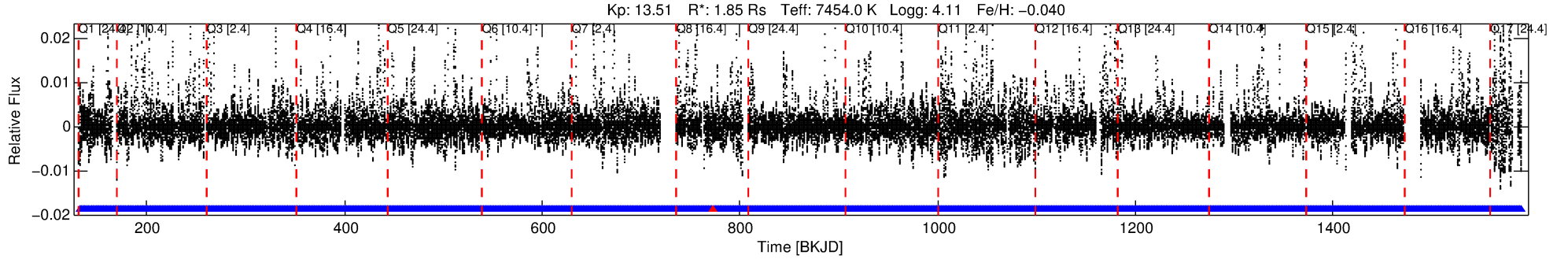
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264061-02

No Significant Match Found

DV One-Page Summary

KIC: 8264061 Candidate: 2 of 2 Period: 0.668 d



DV Fit Results:

Period = 0.66810 [0.01888] d
Epoch = 132.1586 [2.3829] BKJD
Rp/R* = 0.0002 [0.0290]
a/R* = 1.07 [12.93]
b = 0.70 [68.05]
Seff = 30991.87 [11487.90]
Teq = 3383 [314] K
Rp = 0.04 [5.86] Re
a = 0.0175 [0.0041] AU
Ag = 16440.46 [4356237.43] [0.00 σ]
Teffp = 59232 [3924070] K [0.01 σ]

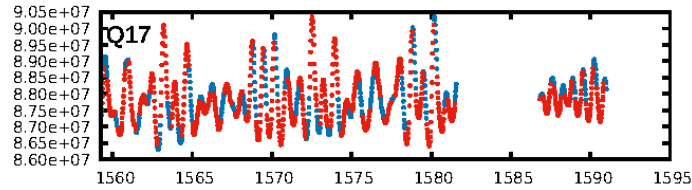
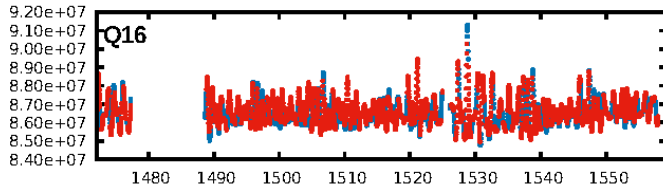
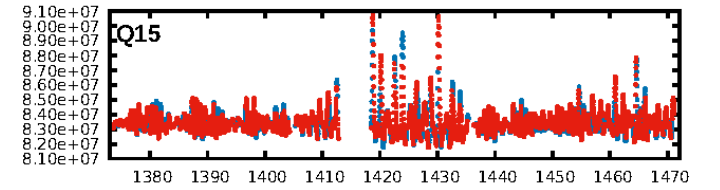
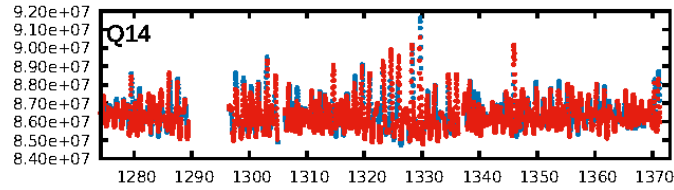
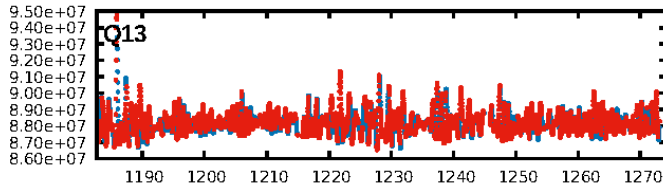
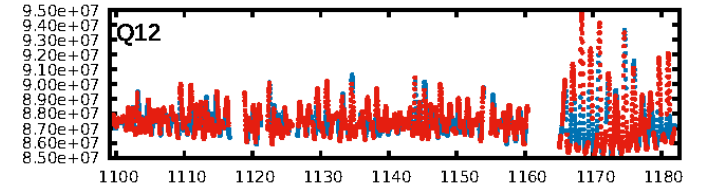
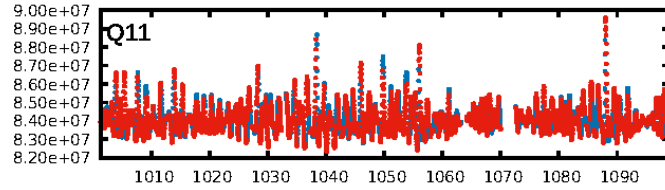
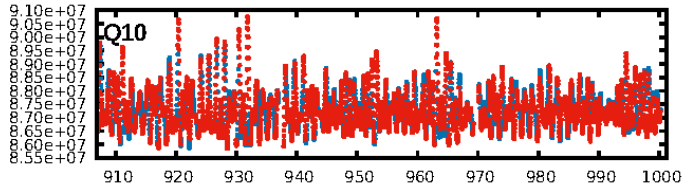
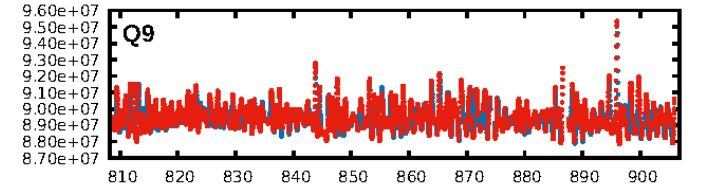
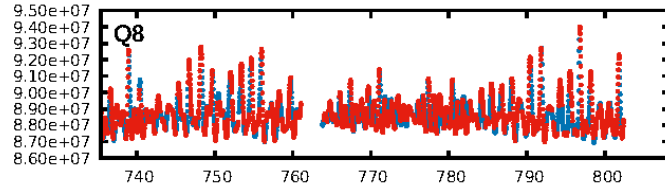
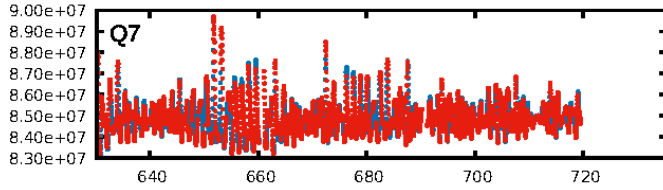
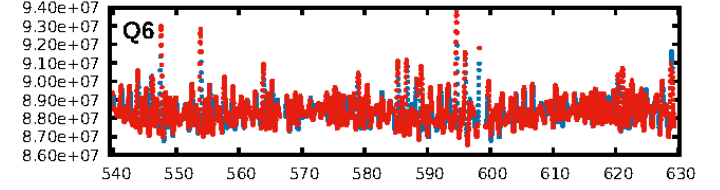
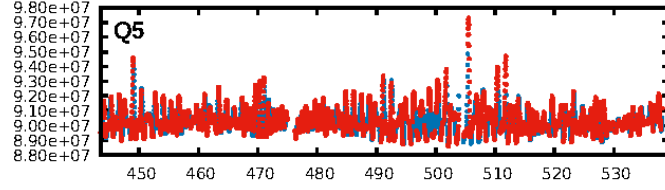
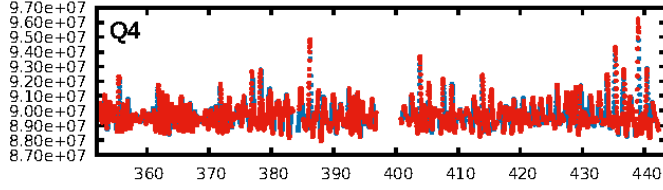
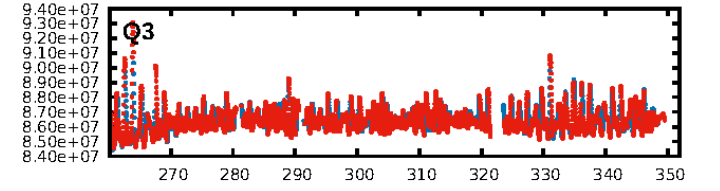
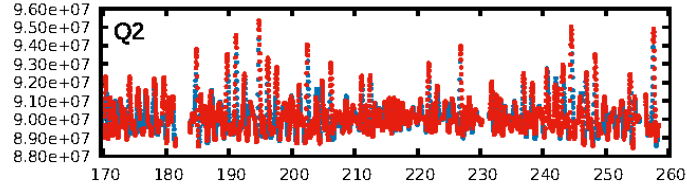
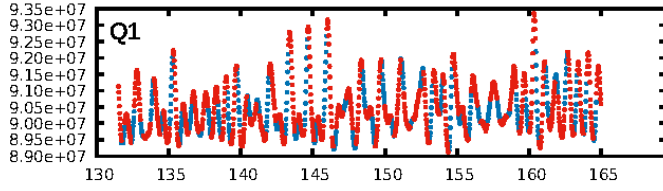
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [1030.53 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1923/1924]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.547 arcsec [1.99 σ]
KicOffset-rm: 0.630 arcsec [2.21 σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.44 [7/16]
DiffImageOverlap-fno: 1.00 [17/17]

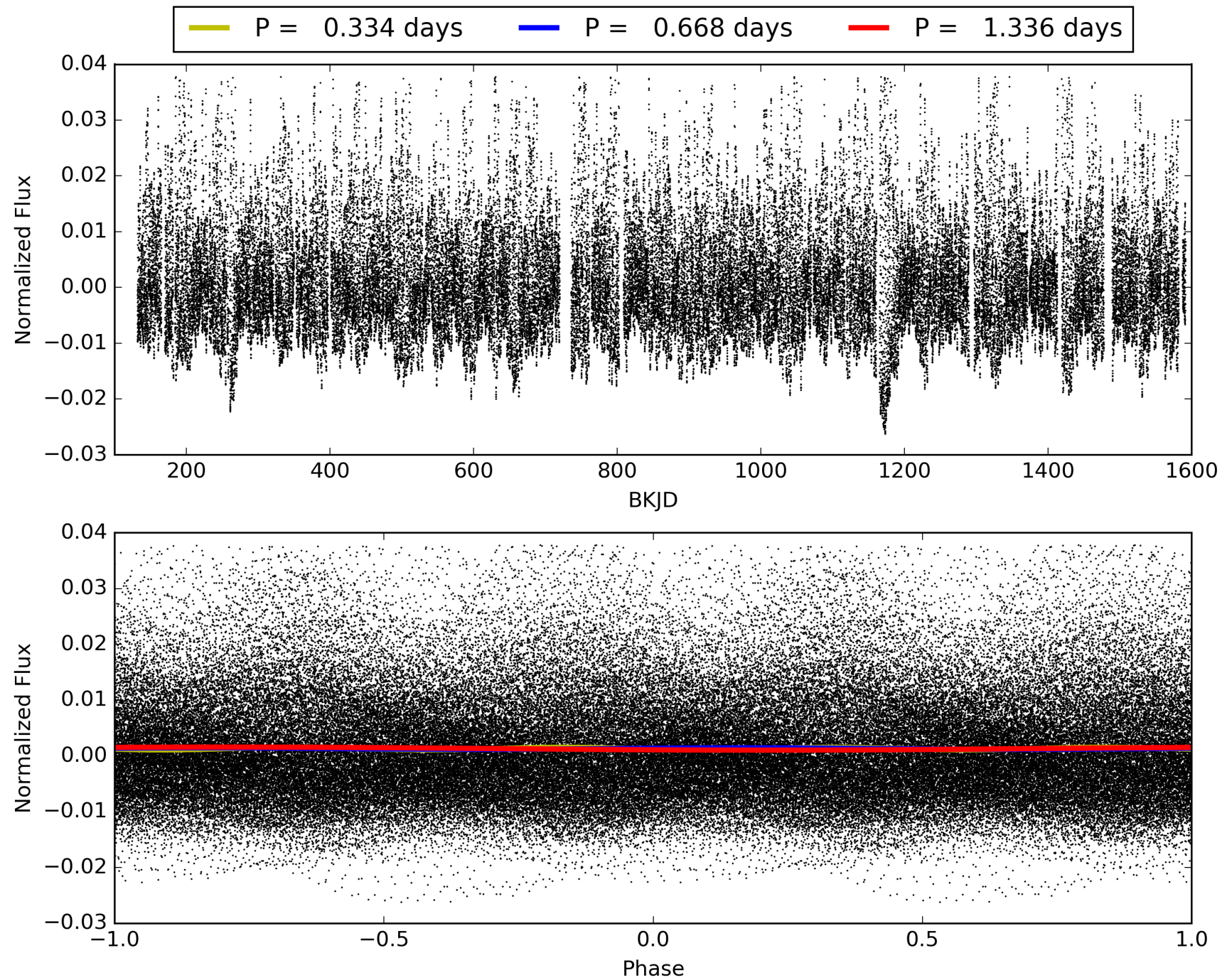
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:19:16 Z

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

TCE 008264061-02, PDC Light Curves

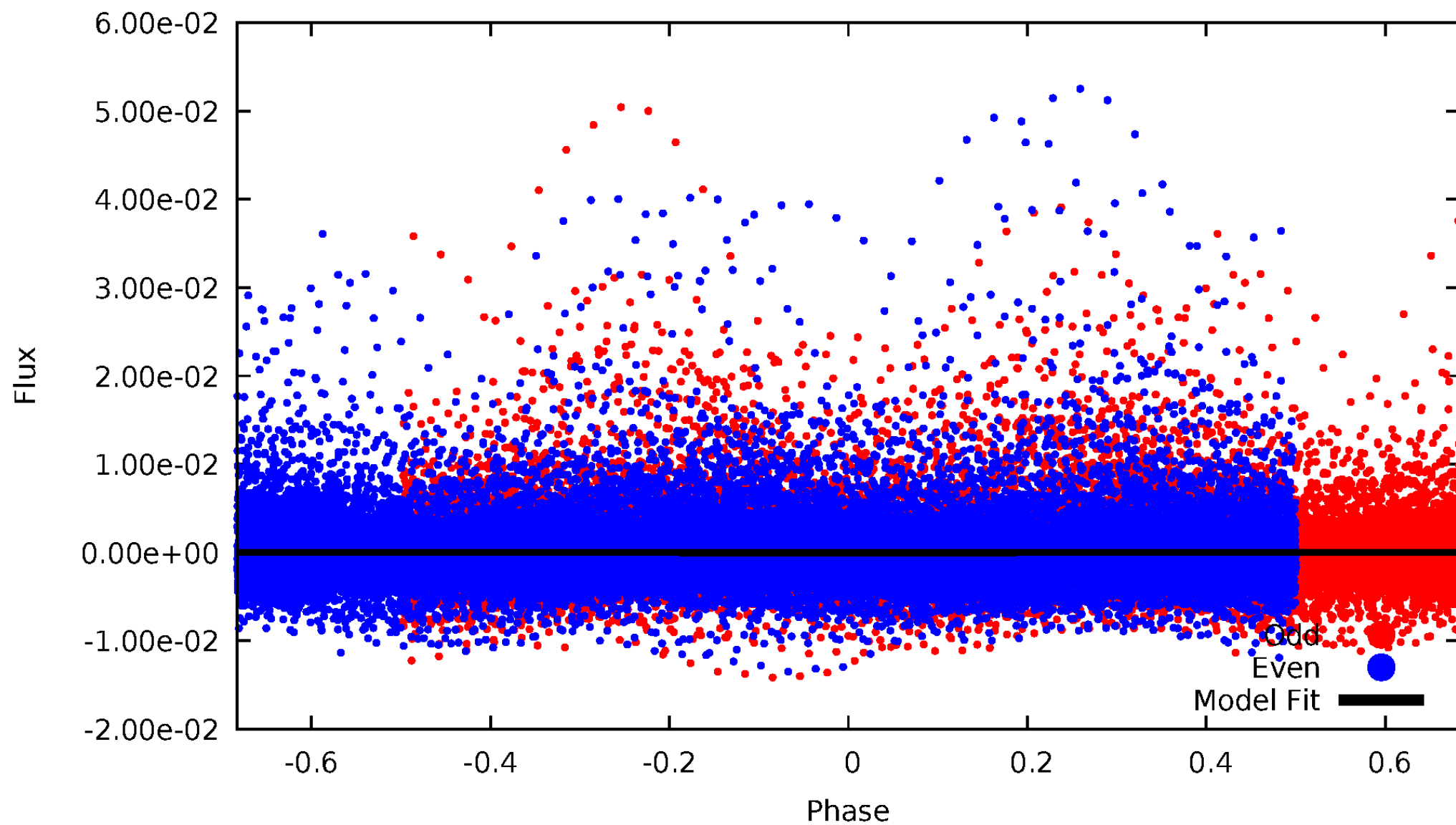


TCE 008264061-02



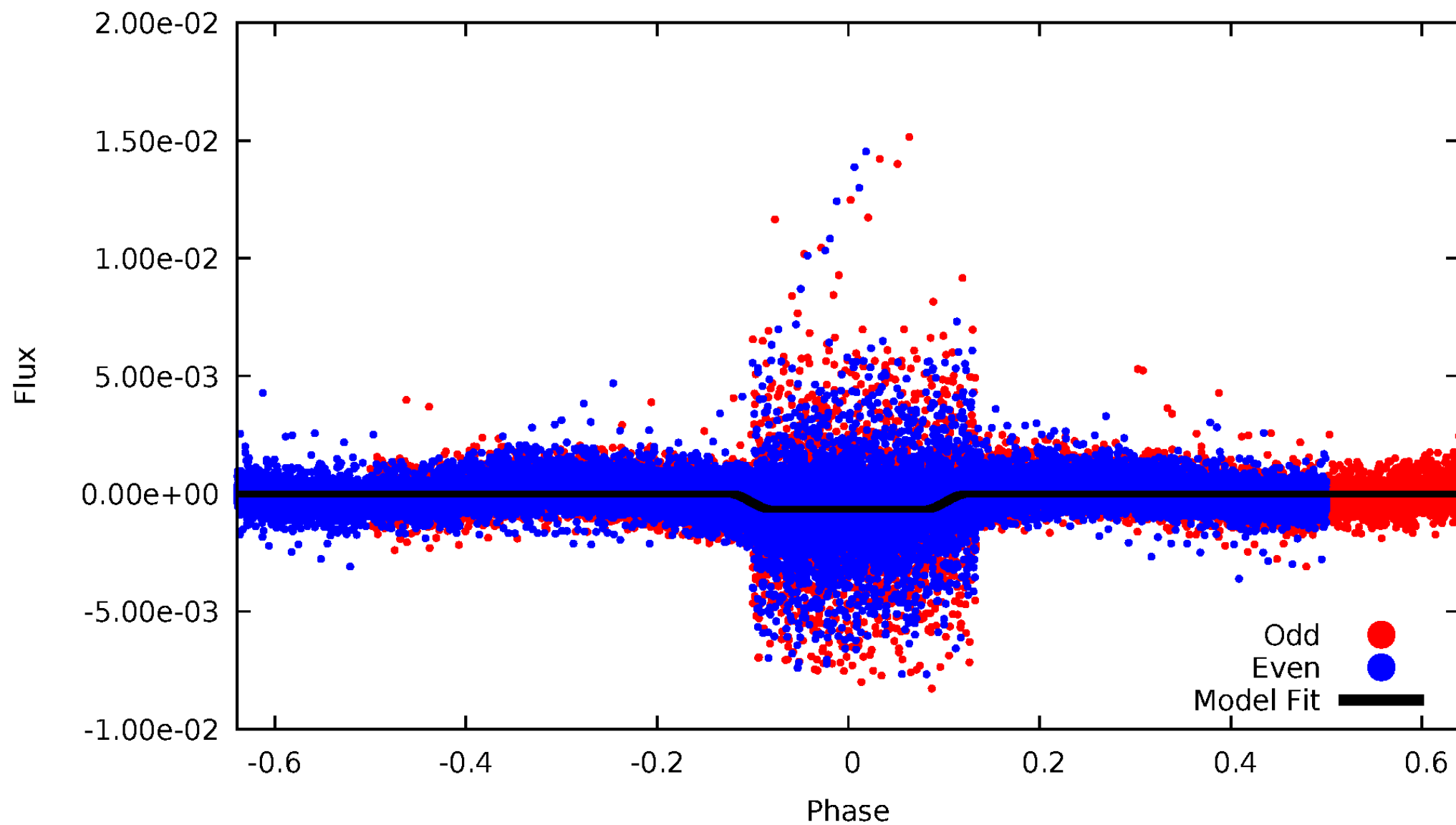
DV Odd/Even

TCE 008264061-02



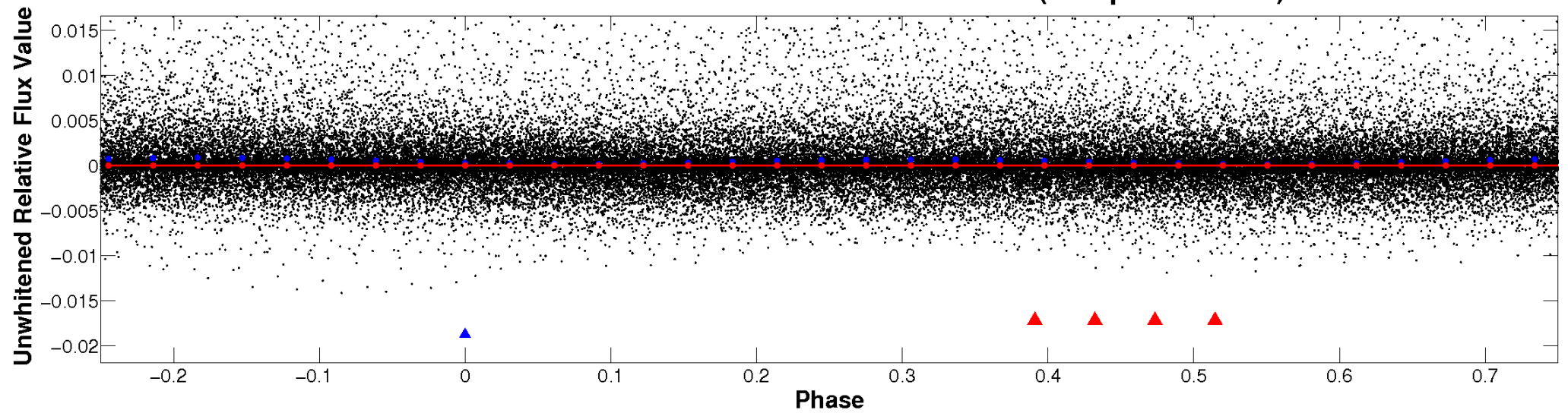
ALT Odd/Even

TCE 008264061-02

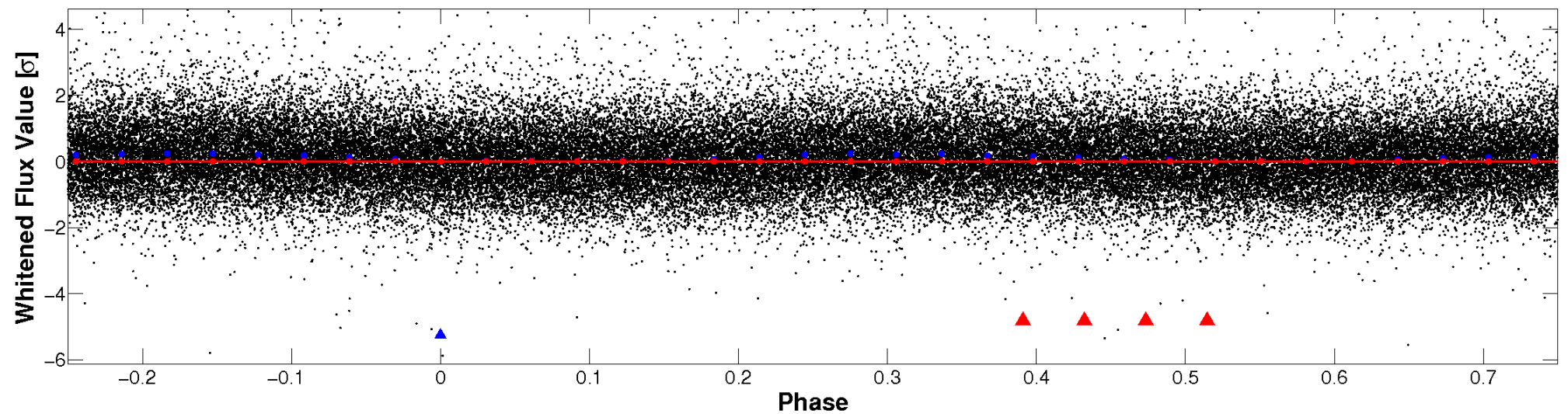


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

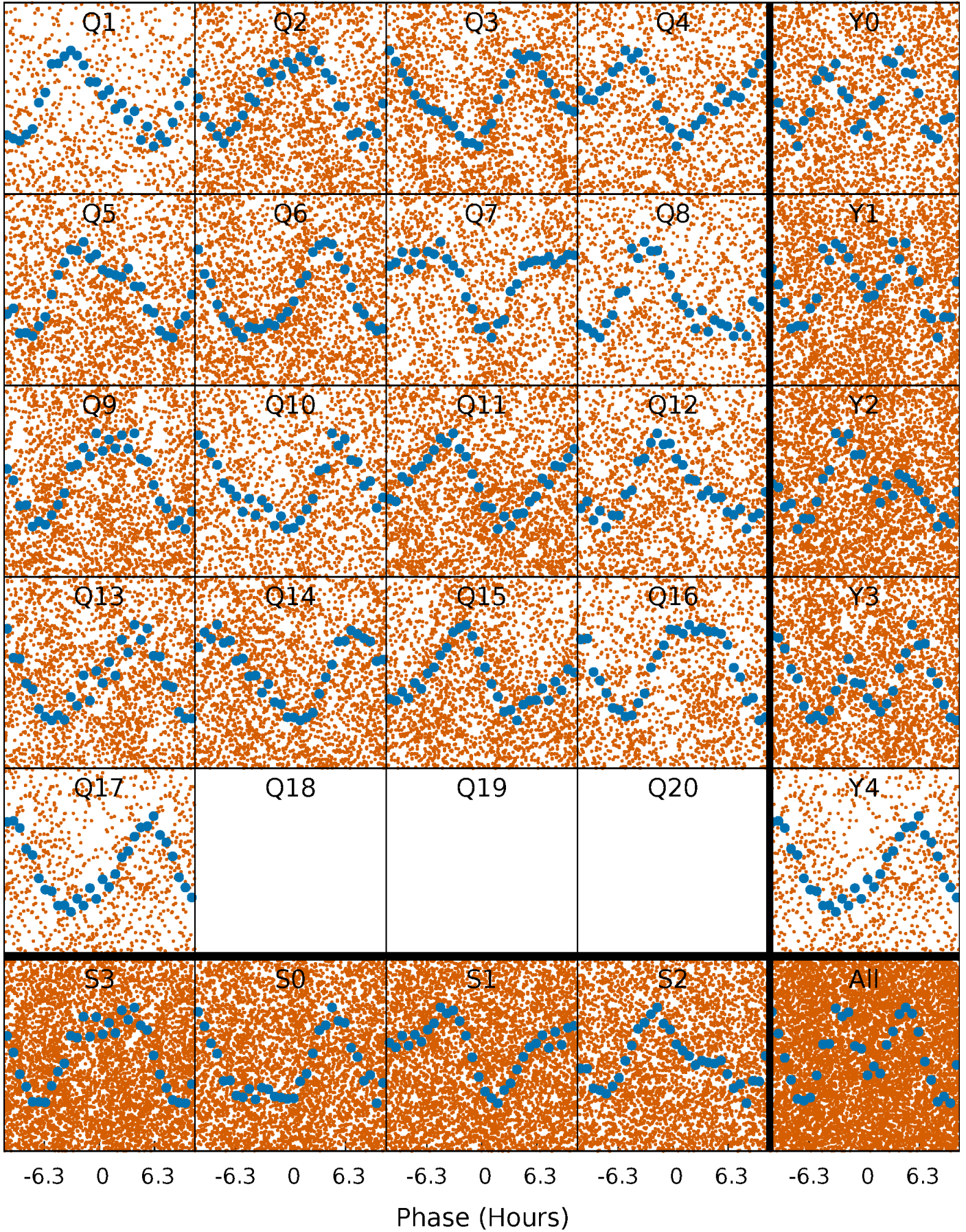


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



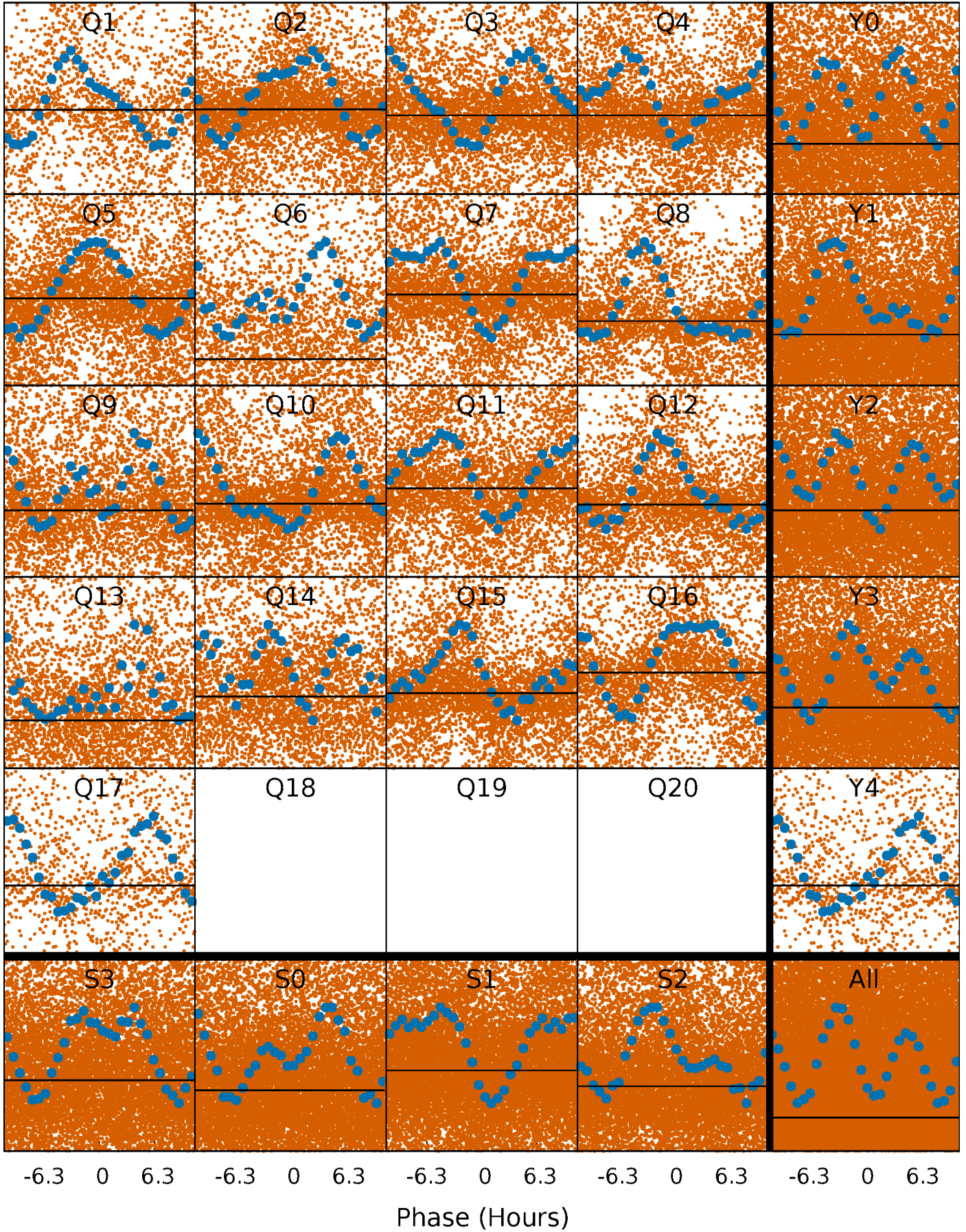
PDC Quarter-Phased Transit Curves

TCE 008264061-02 P= 0.668099 Days $T_0=132.158609$ (BKJD)



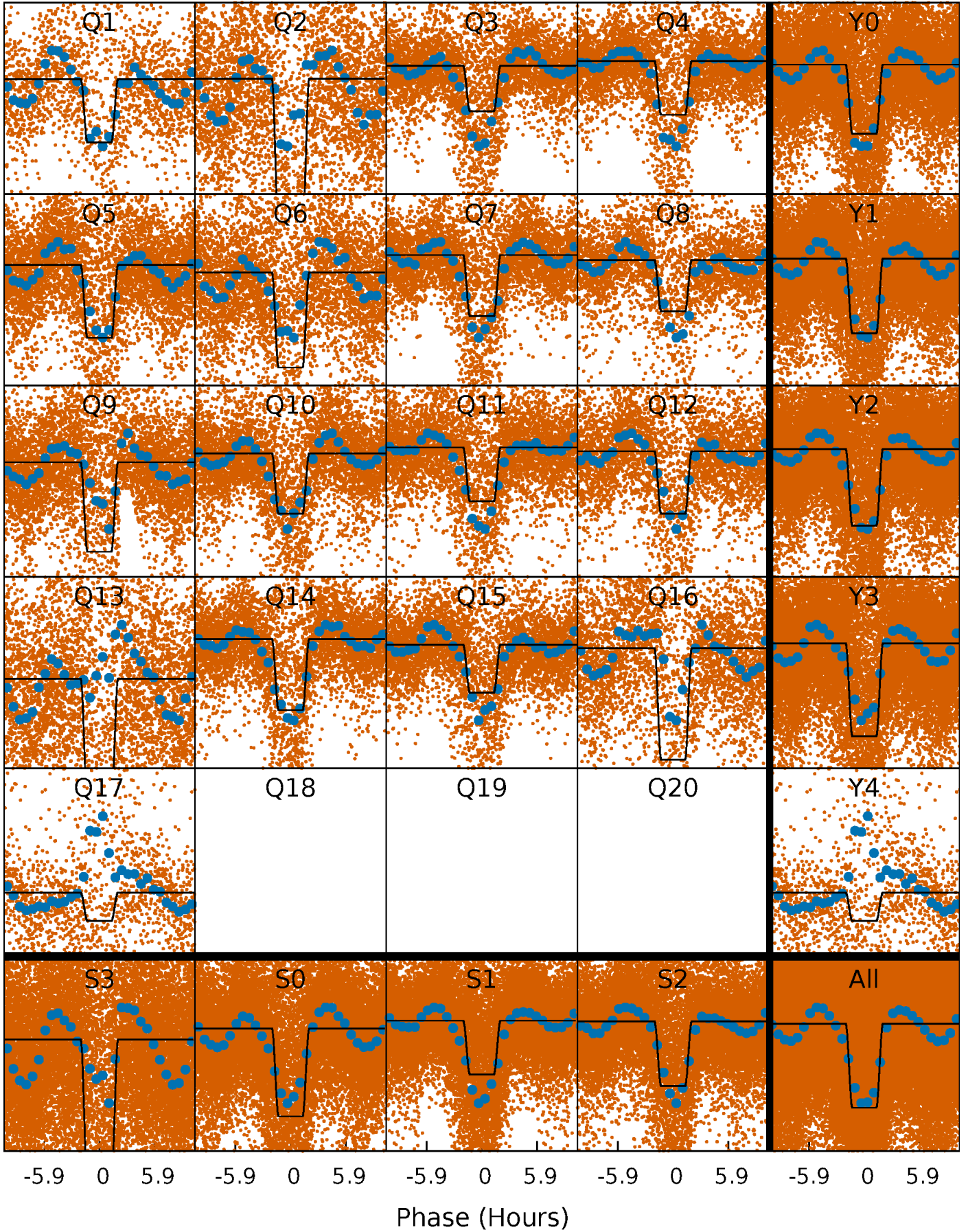
DV Quarter-Phased Transit Curves

TCE 008264061-02 P= 0.668099 Days $T_0=132.158609$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

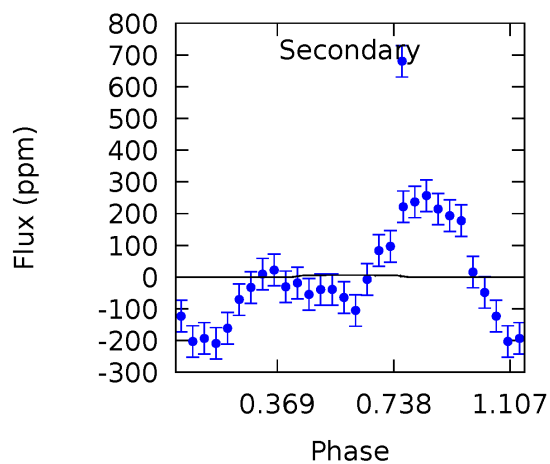
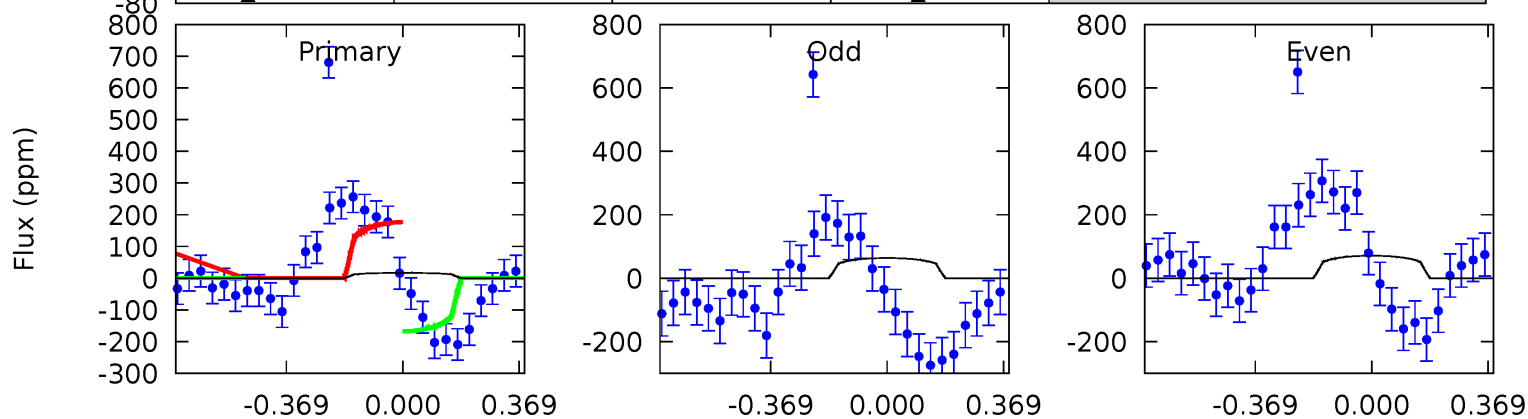
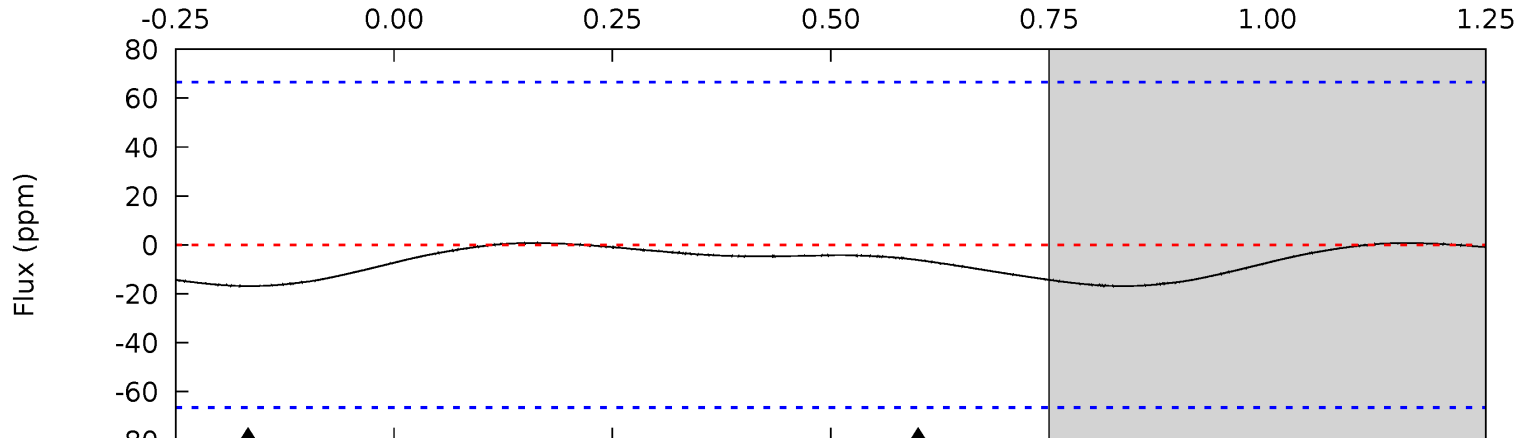
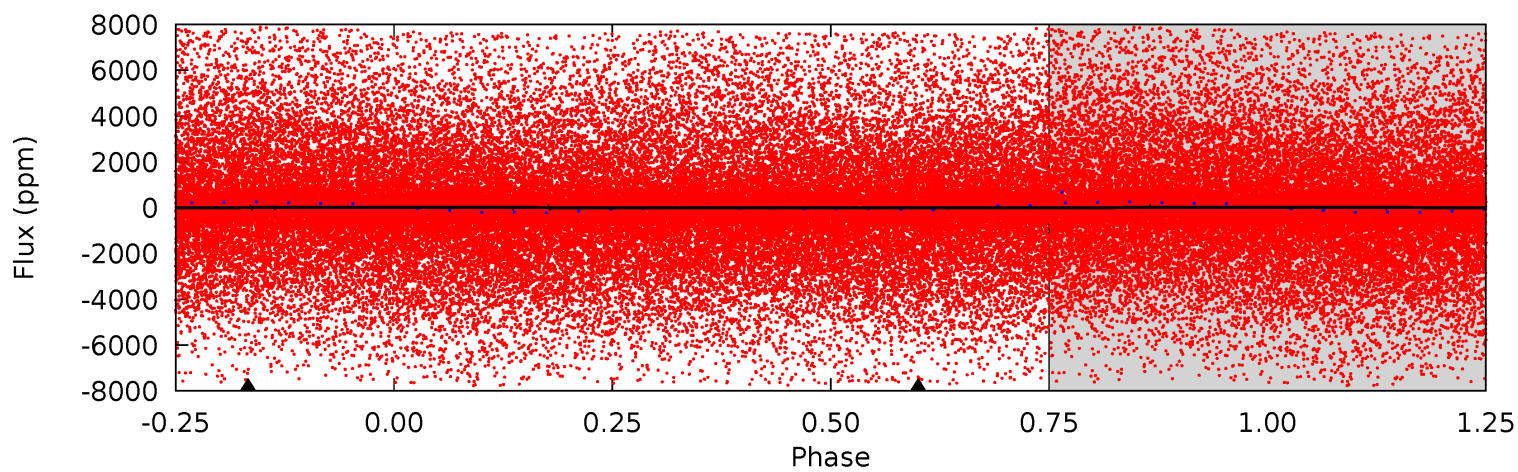
TCE 008264061-02 P= 0.668163 Days $T_0=132.154462$ (BKJD)



DV Model-Shift Uniqueness Test

008264061-02, P = 0.668099 Days, E = 131.490510 Days

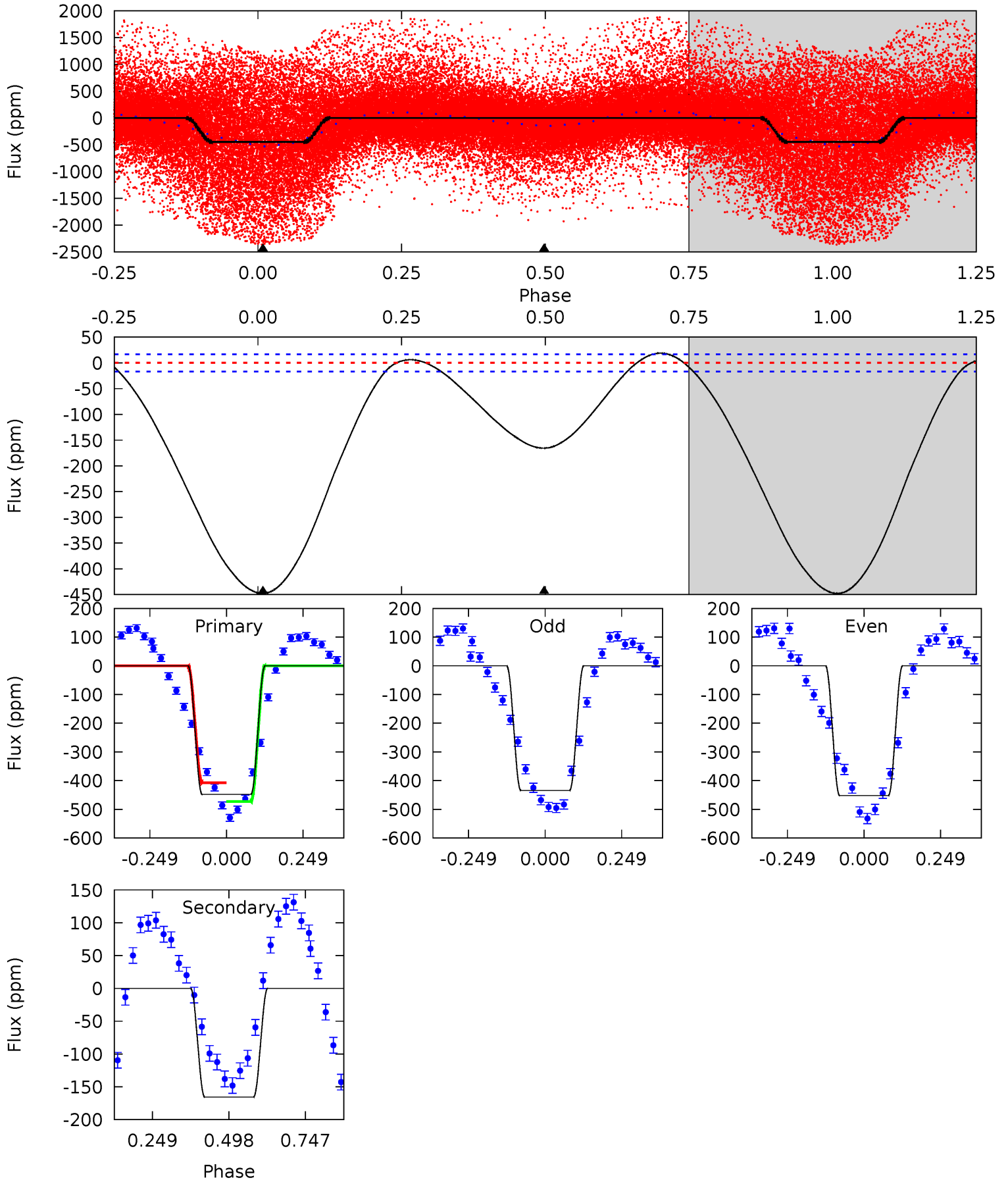
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.08	0.40	0	0	4.28	0.90	0.04	1.08	1.08	0.40	0.40	0.23	6.51	0.04	0.30



Alt Model-Shift Uniqueness Test

008264061-02, P = 0.668163 Days, E = 131.486299 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
116.3	43.0	0	0	4.37	1.15	4.48	116.3	116.3	43.0	43.0	2.32	1.17	0.04	8.53



Stellar Parameters For KIC 008264061

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7454^{+207}_{-311}	$4.107^{+0.144}_{-0.176}$	$-0.040^{+0.200}_{-0.350}$	$1.853^{+0.521}_{-0.426}$	$1.602^{+0.213}_{-0.260}$	$0.354^{+0.261}_{-0.174}$
	+3%/-4%	+4%/-4%	+500%/-875%	+28%/-23%	+13%/-16%	+74%/-49%
Source	KIC0	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 008264061-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-6 ± 16	$3.92^{+4.49}_{-2.74}$	4724^{+353}_{-318}	-3976^{+8302}_{-496}	$0.034^{+0.703}_{-0.130}$
Alt.	-166 ± 4	$6.71^{+5.36}_{-4.13}$	4741^{+331}_{-322}	4133^{+3306}_{-7592}	$0.628^{+3.534}_{-0.433}$

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 $A_{obs} \gg 1.0$

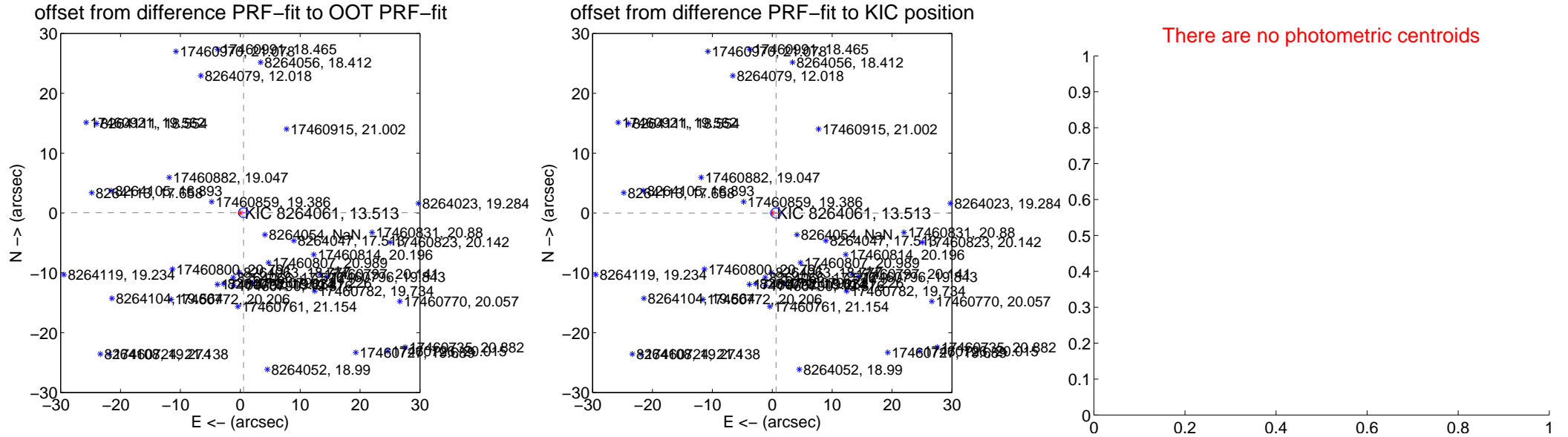
DV Centroid Data

Supplemental centroid analysis for 008264061-02. Kepler magnitude: 13.51. Transit SNR 0.00

There are 7 quarters with good PRF difference image offsets

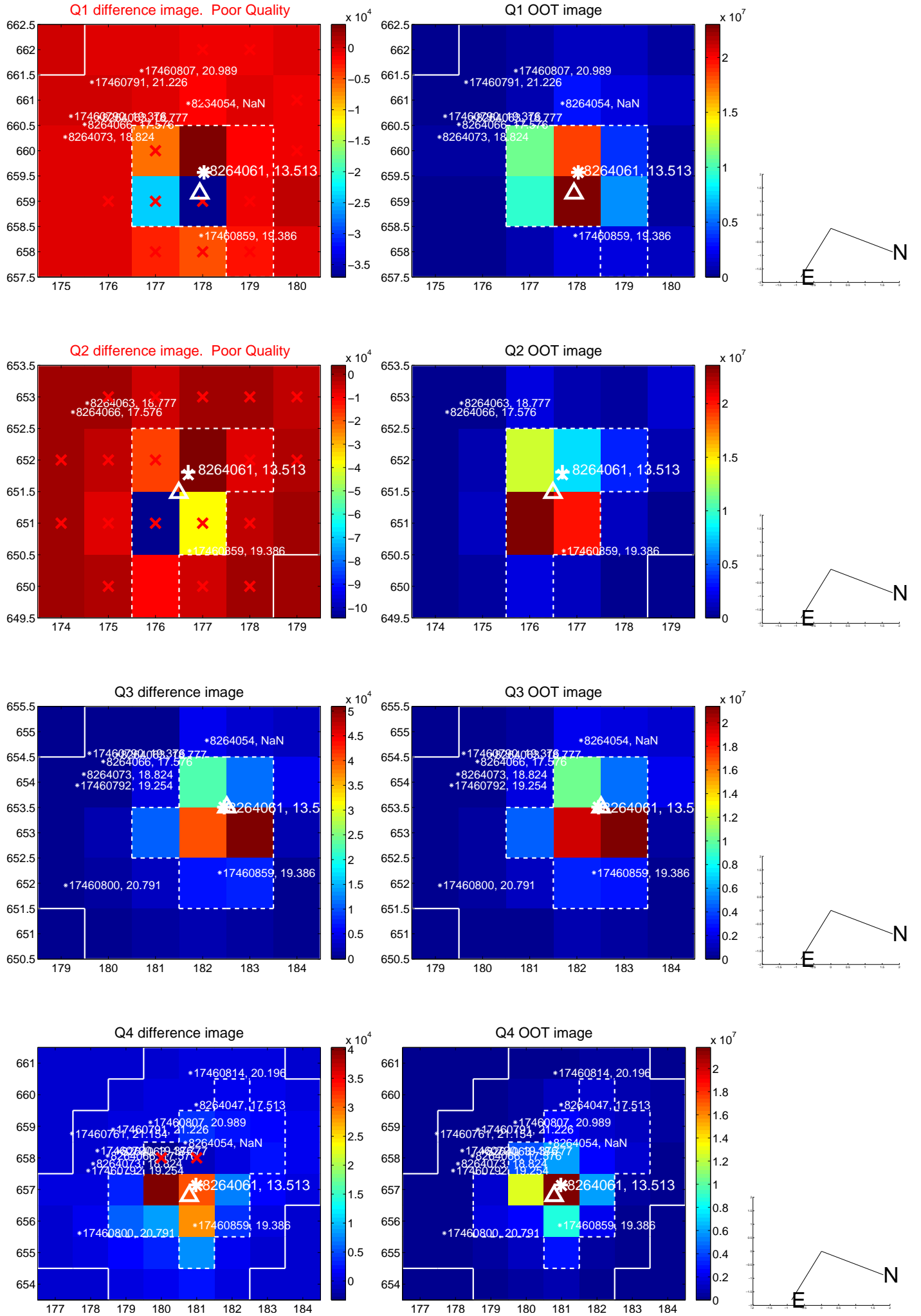
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.547 ± 0.275	1.99	-0.545 ± 0.278	0.050 ± 0.112
PRF-fit source offset from KIC position	0.630 ± 0.286	2.21	-0.630 ± 0.286	-0.002 ± 0.111
photometric centroid source offset	—	—	—	—

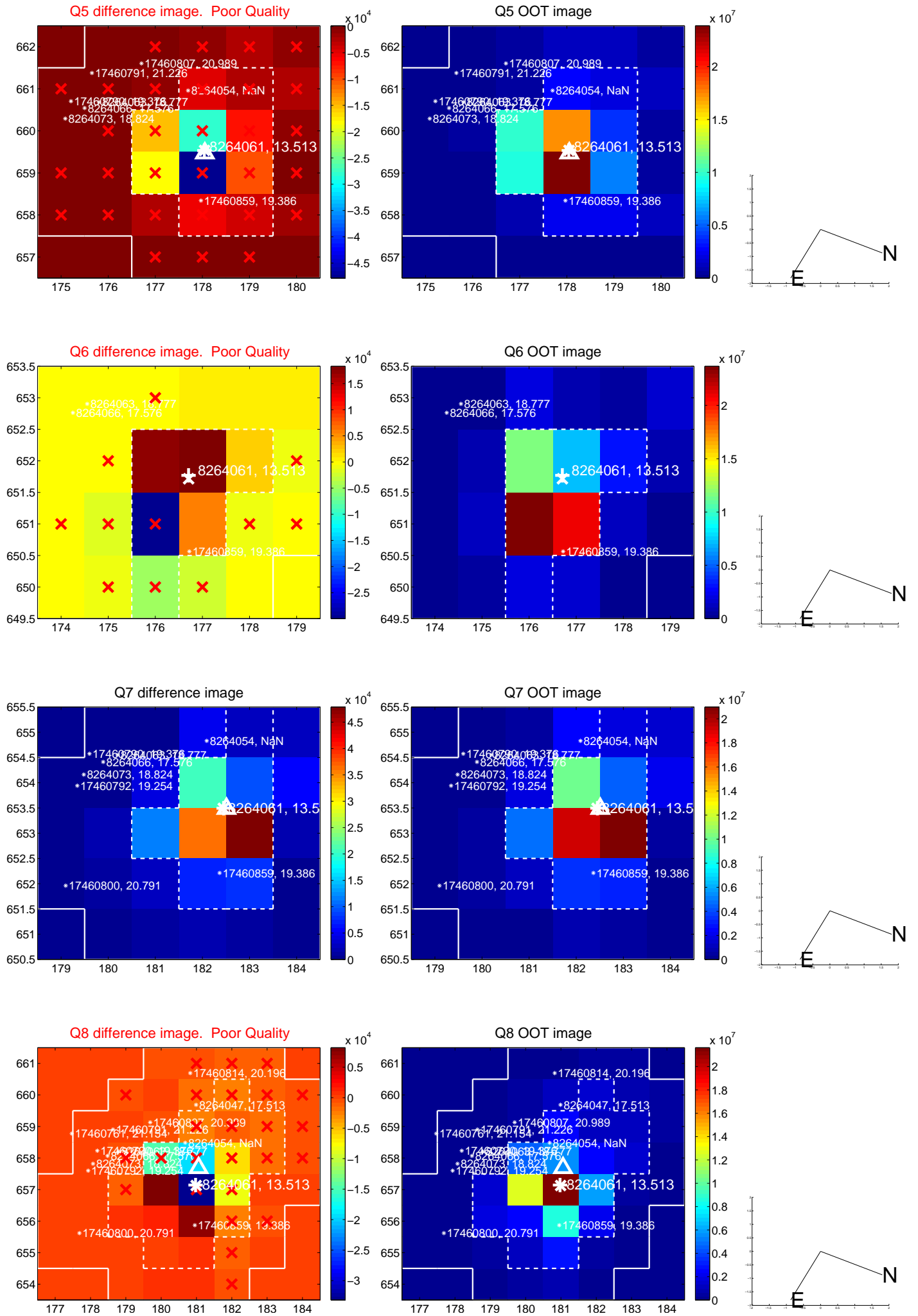


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

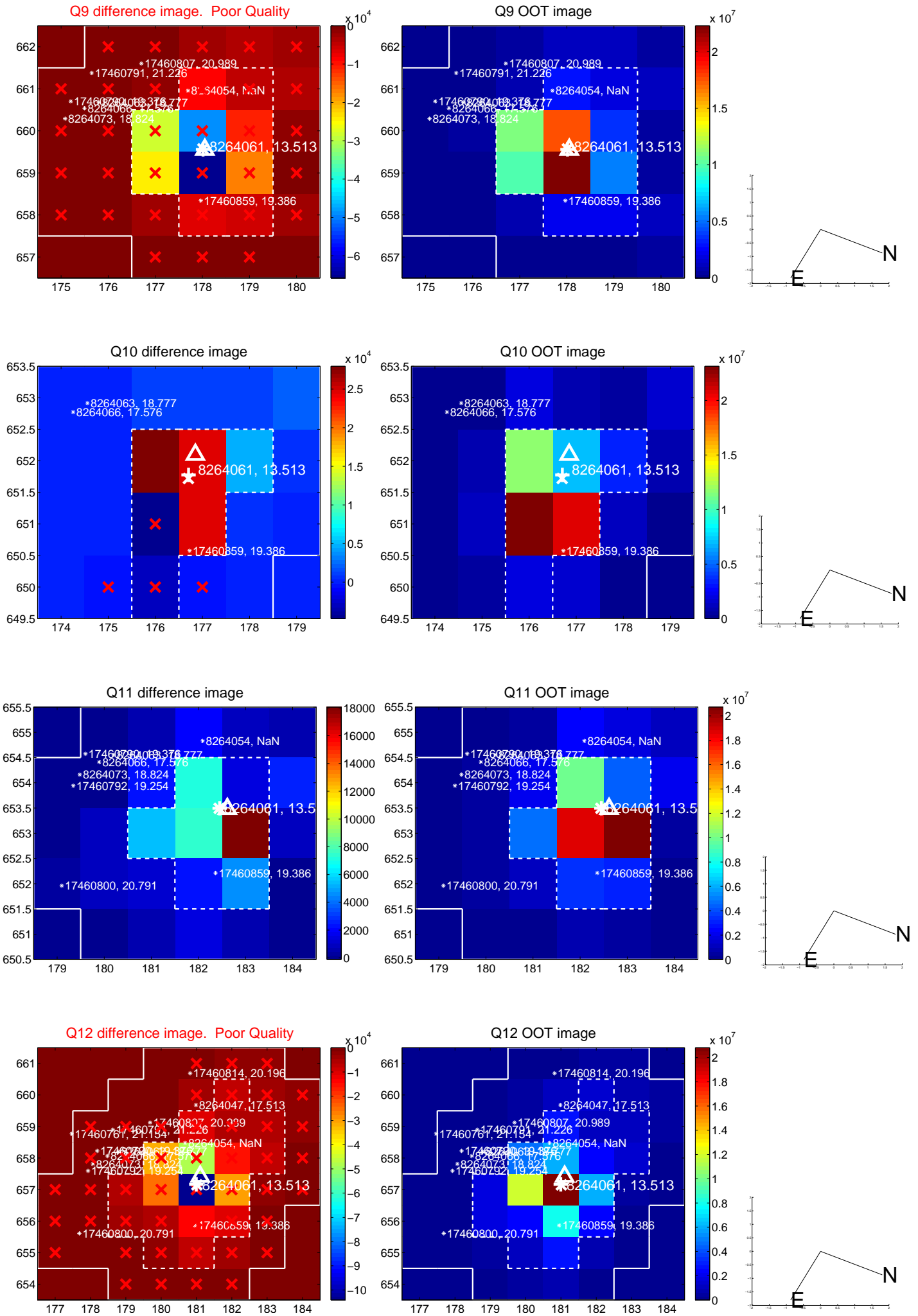
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



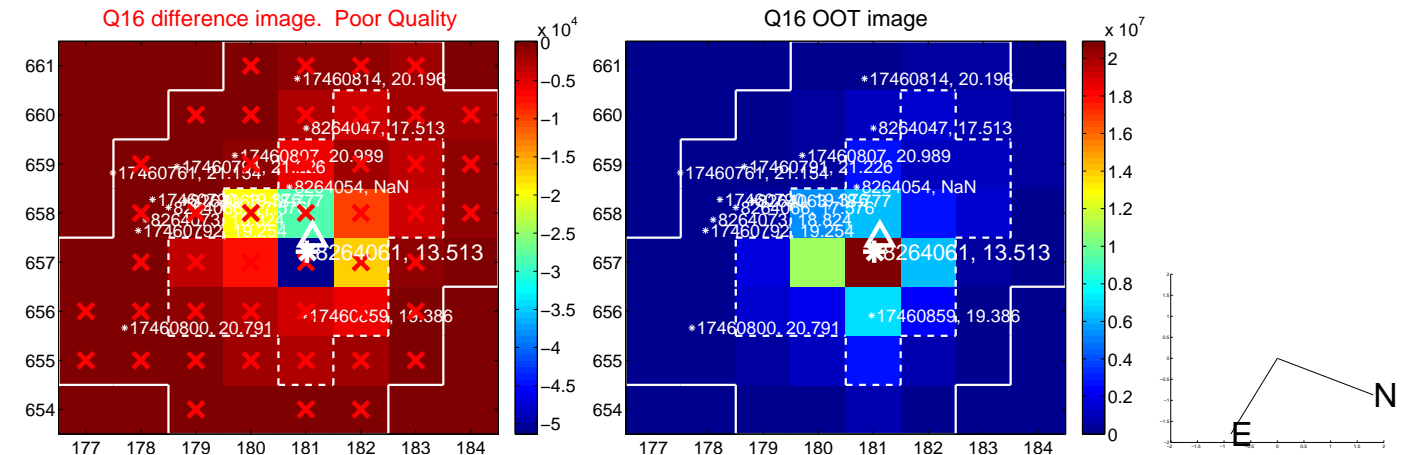
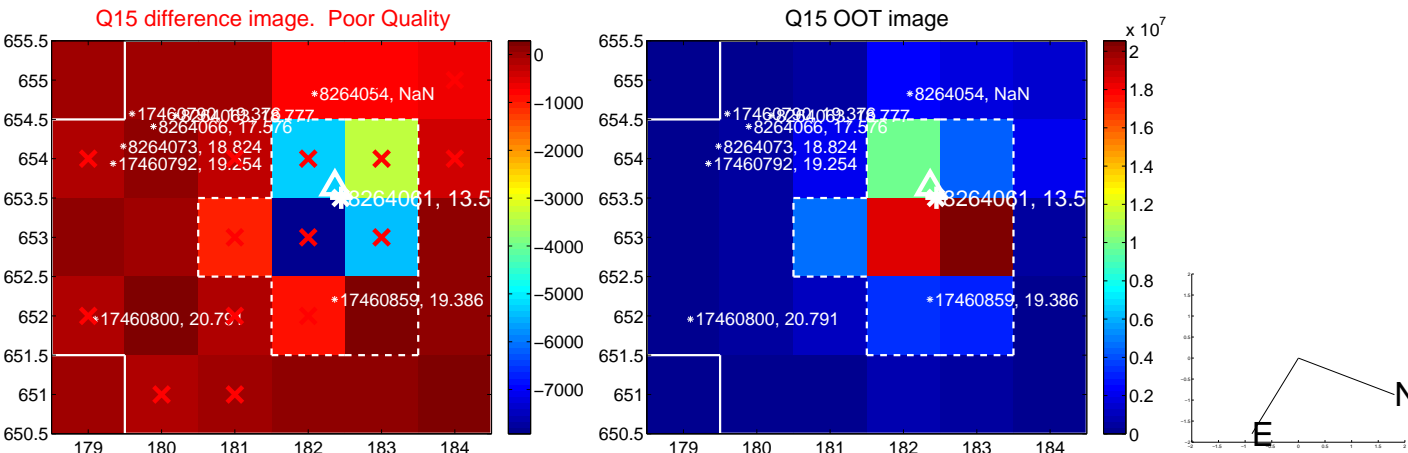
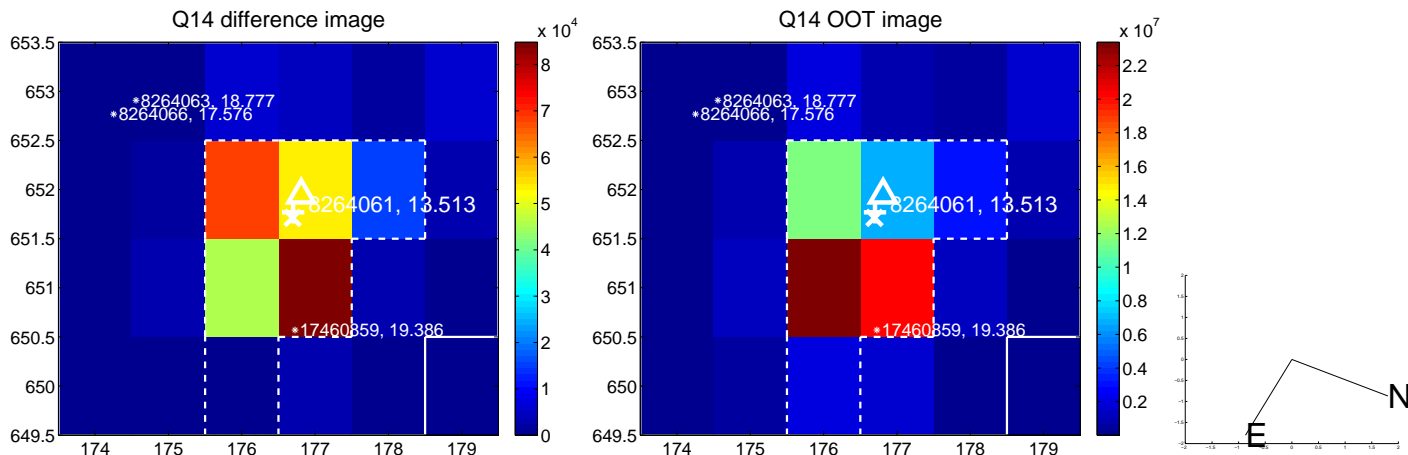
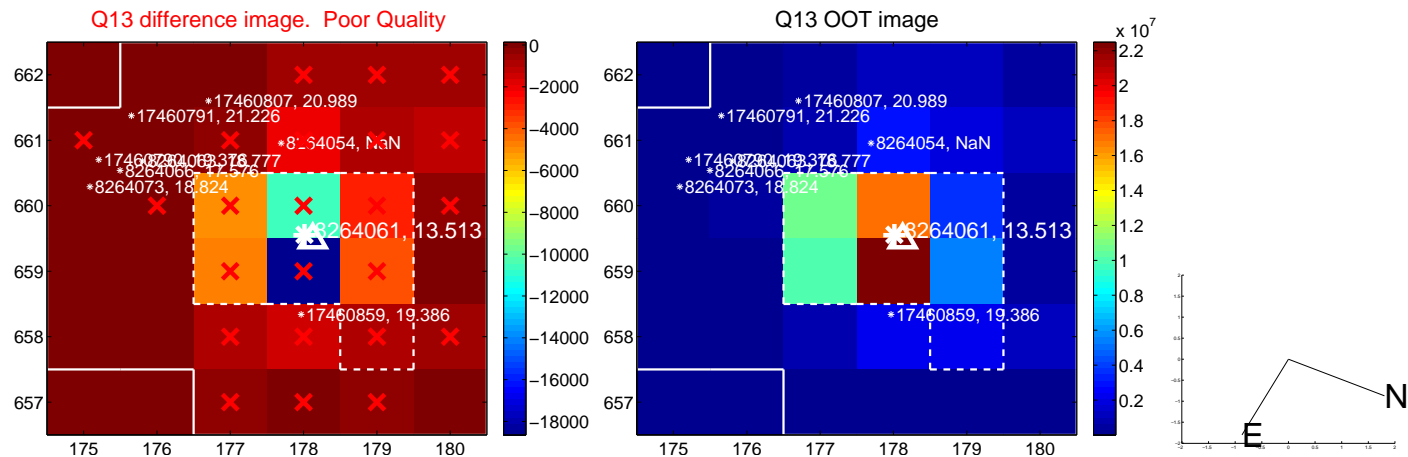
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



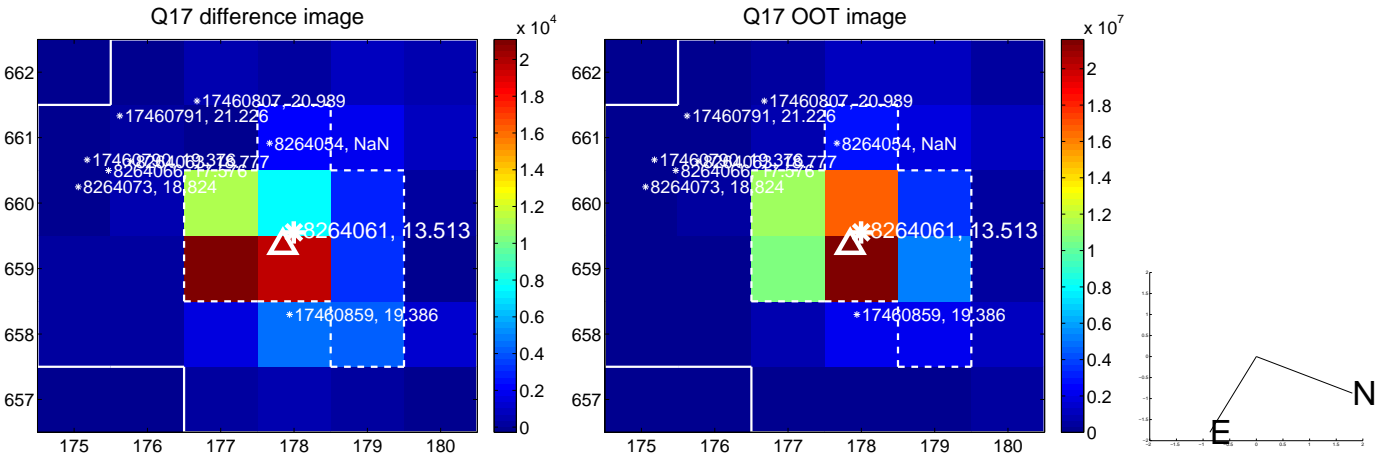
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

