

KIC 008265126

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})
008265126-01	OBS	No	0.570485	131.925062	15.4	5.440	8.7	1.3	1.71	7639	0.78	35923.53

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008265126-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT

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

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

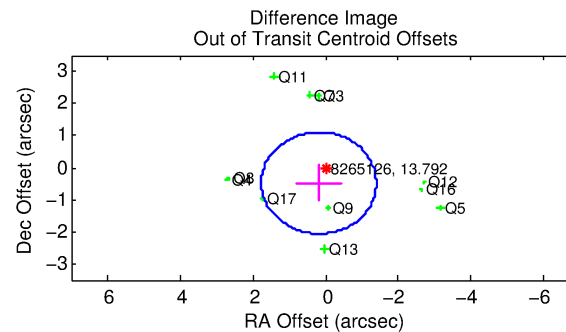
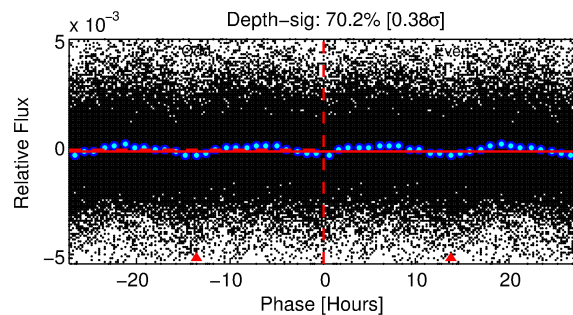
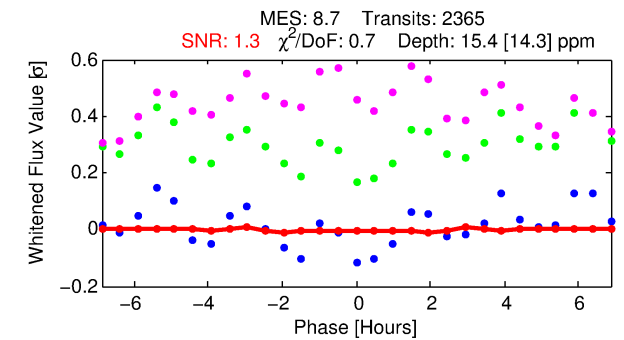
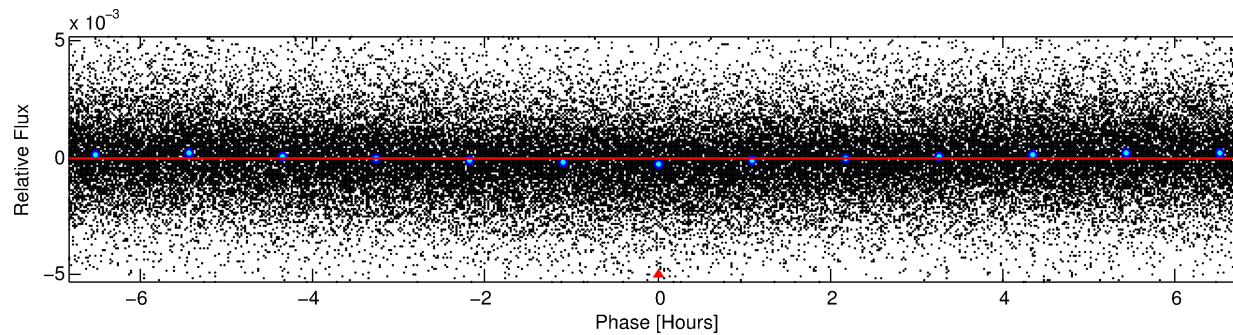
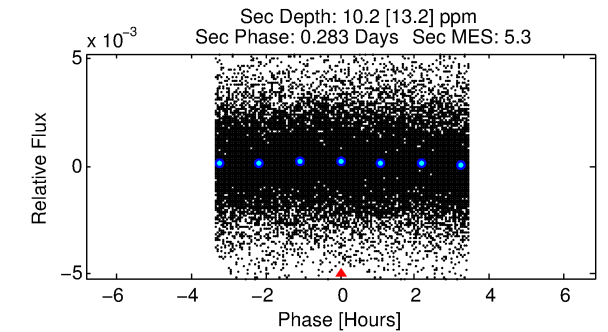
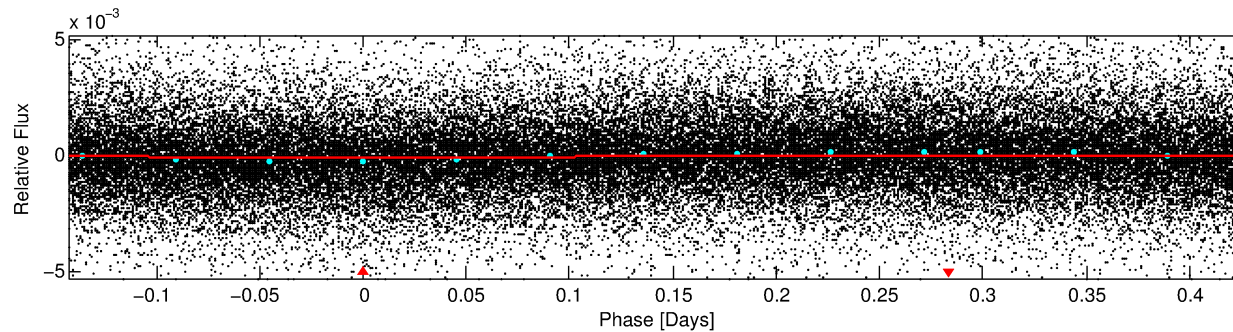
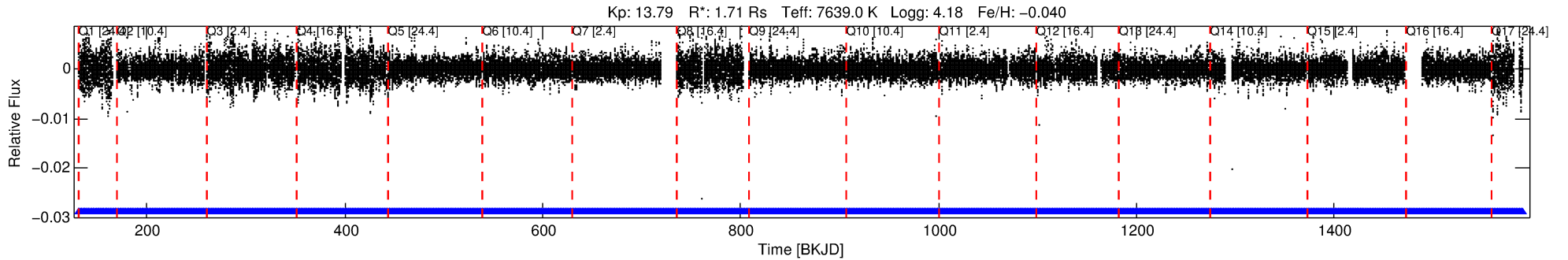
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008265126-01

No Significant Match Found

DV One-Page Summary

KIC: 8265126 Candidate: 1 of 1 Period: 0.570 d



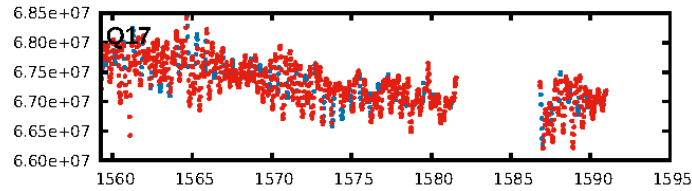
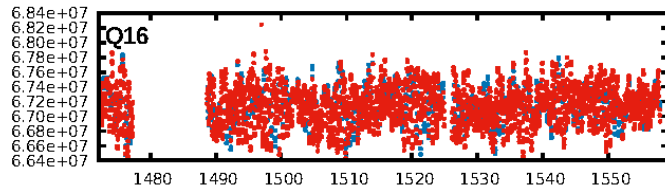
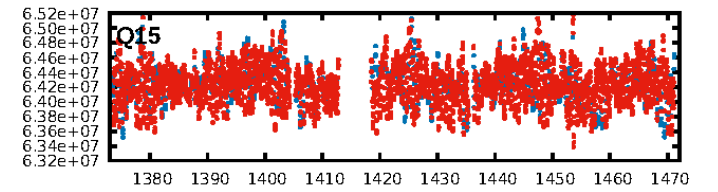
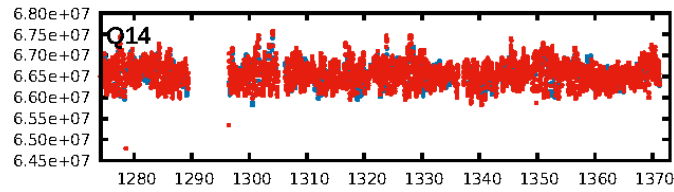
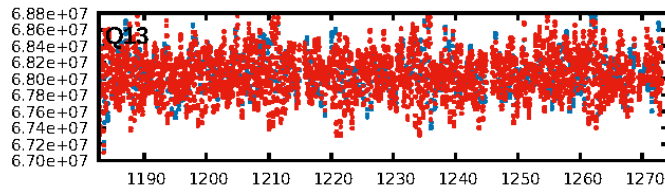
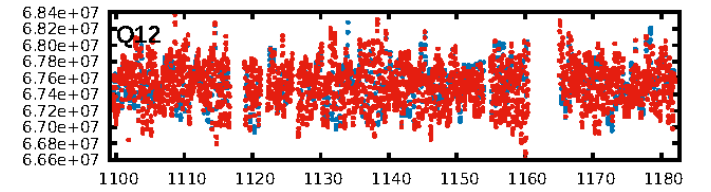
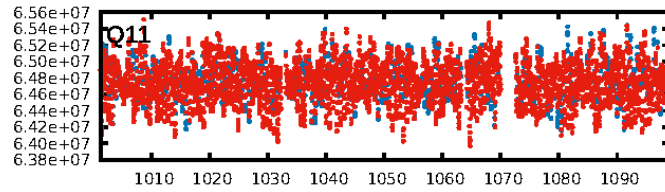
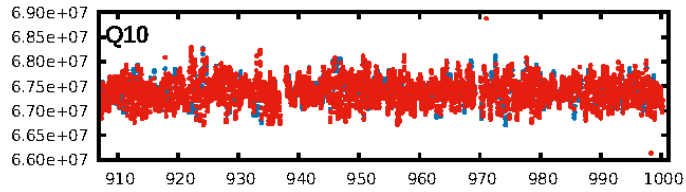
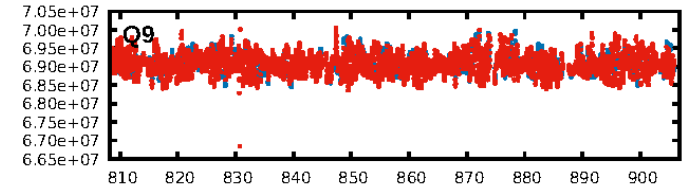
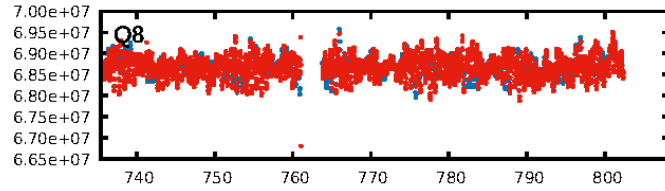
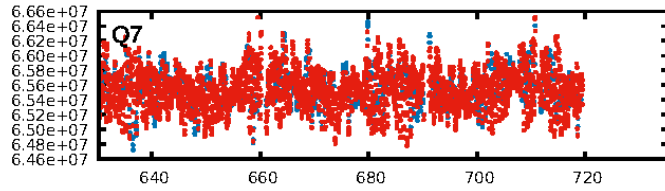
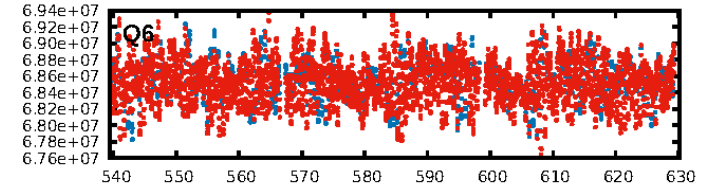
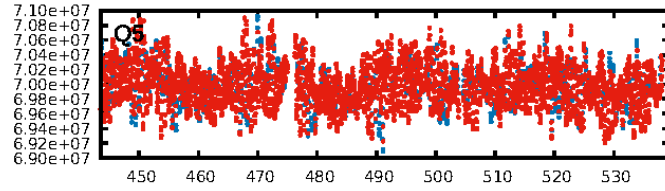
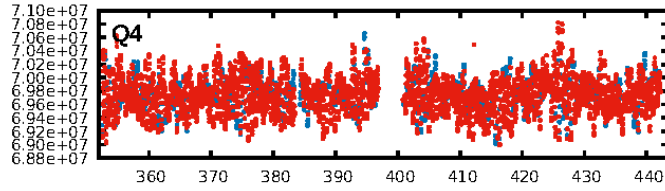
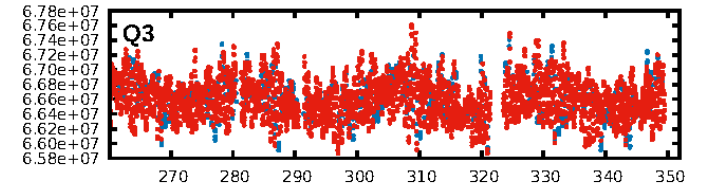
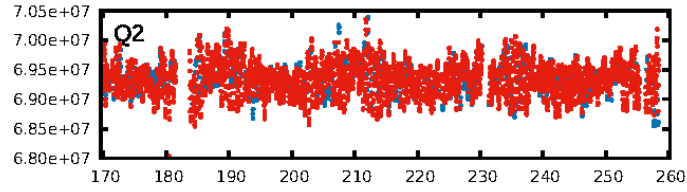
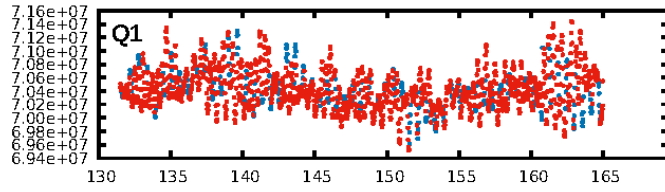
DV Fit Results:

Period = 0.57048 [0.00007] d
Epoch = 131.9251 [0.0099] BKJD
Rp/R* = 0.0042 [0.0039]
a/R* = 1.01 [0.14]
b = 0.91 [0.94]
Seff = 35923.53 [14593.96]
Teff = 3511 [357] K
Rp = 0.78 [0.76] Re
a = 0.0158 [0.0040] AU
Ag = 2.29 [5.23] [0.25σ]
Teffp = 6675 [3780] K [0.83σ]

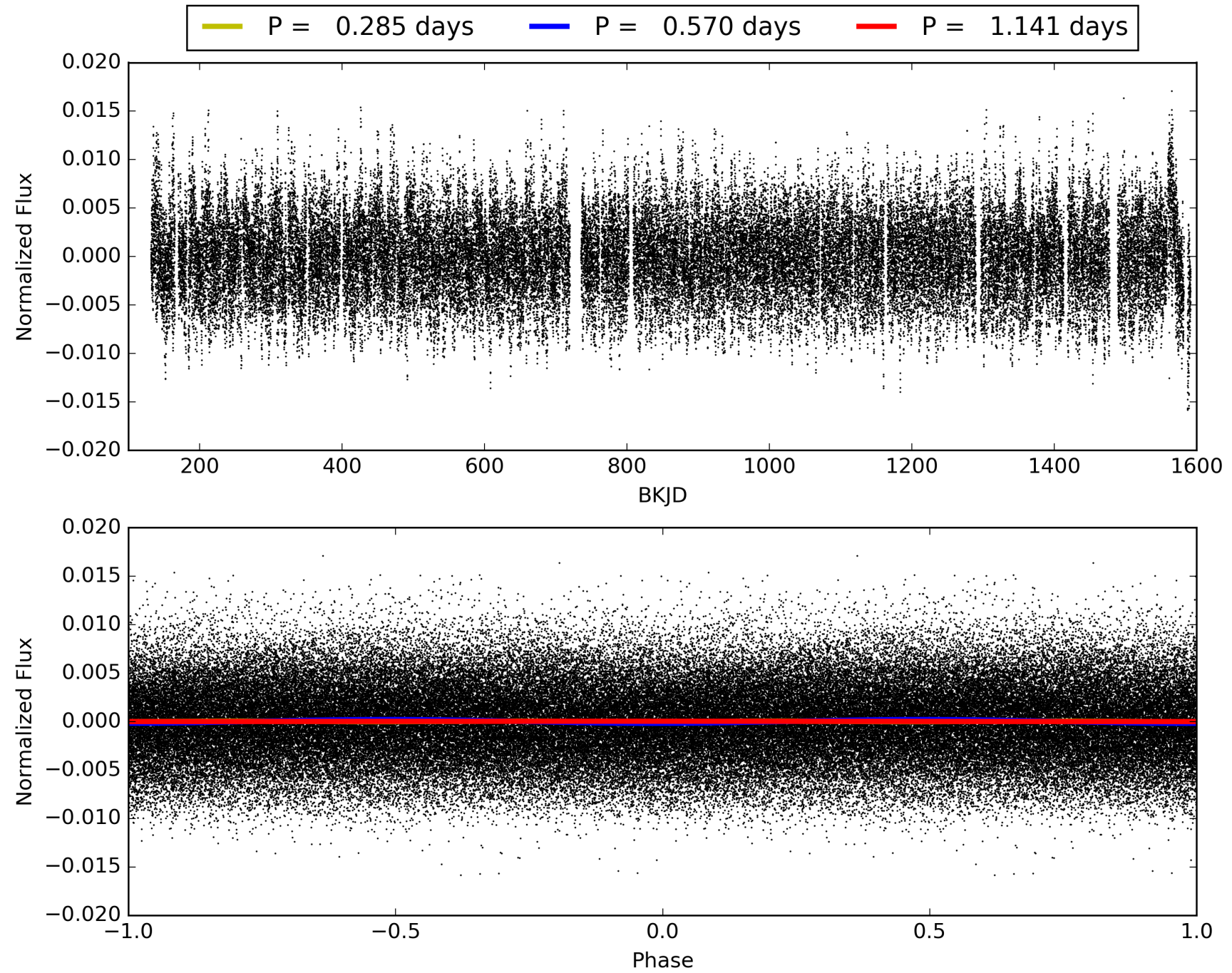
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2259/2259]
GhostDiagnostic-chr: 1.086
Centroid-sig: 0.0%
Centroid-so: 13.913 arcsec [5.01σ]
OotOffset-rm: 0.513 arcsec [0.97σ]
KicOffset-rm: 0.231 arcsec [0.31σ]
OotOffset-st: 0/3/4/4 [11]
KicOffset-st: 0/3/4/4 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 008265126-01, PDC Light Curves

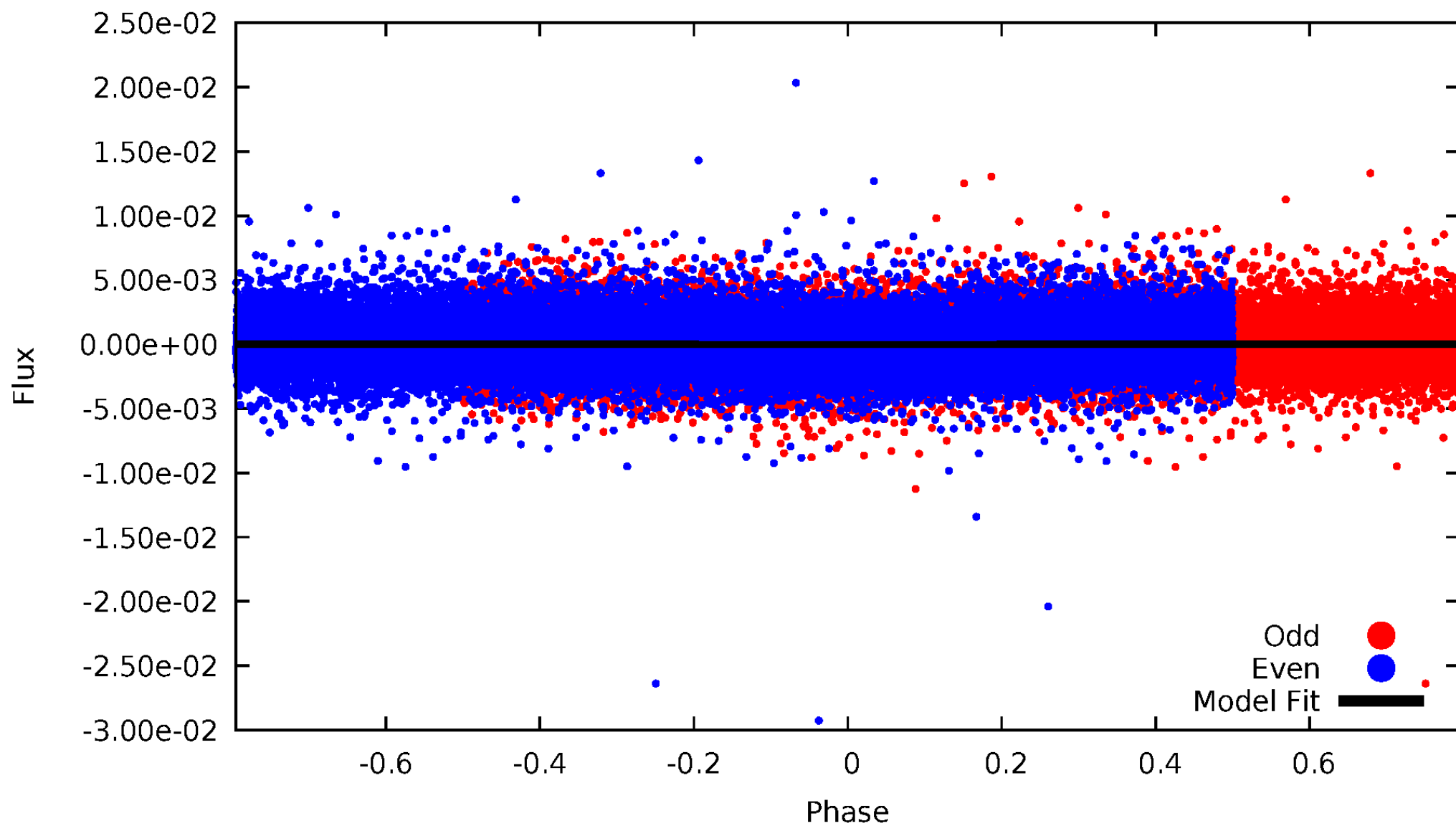


TCE 008265126-01



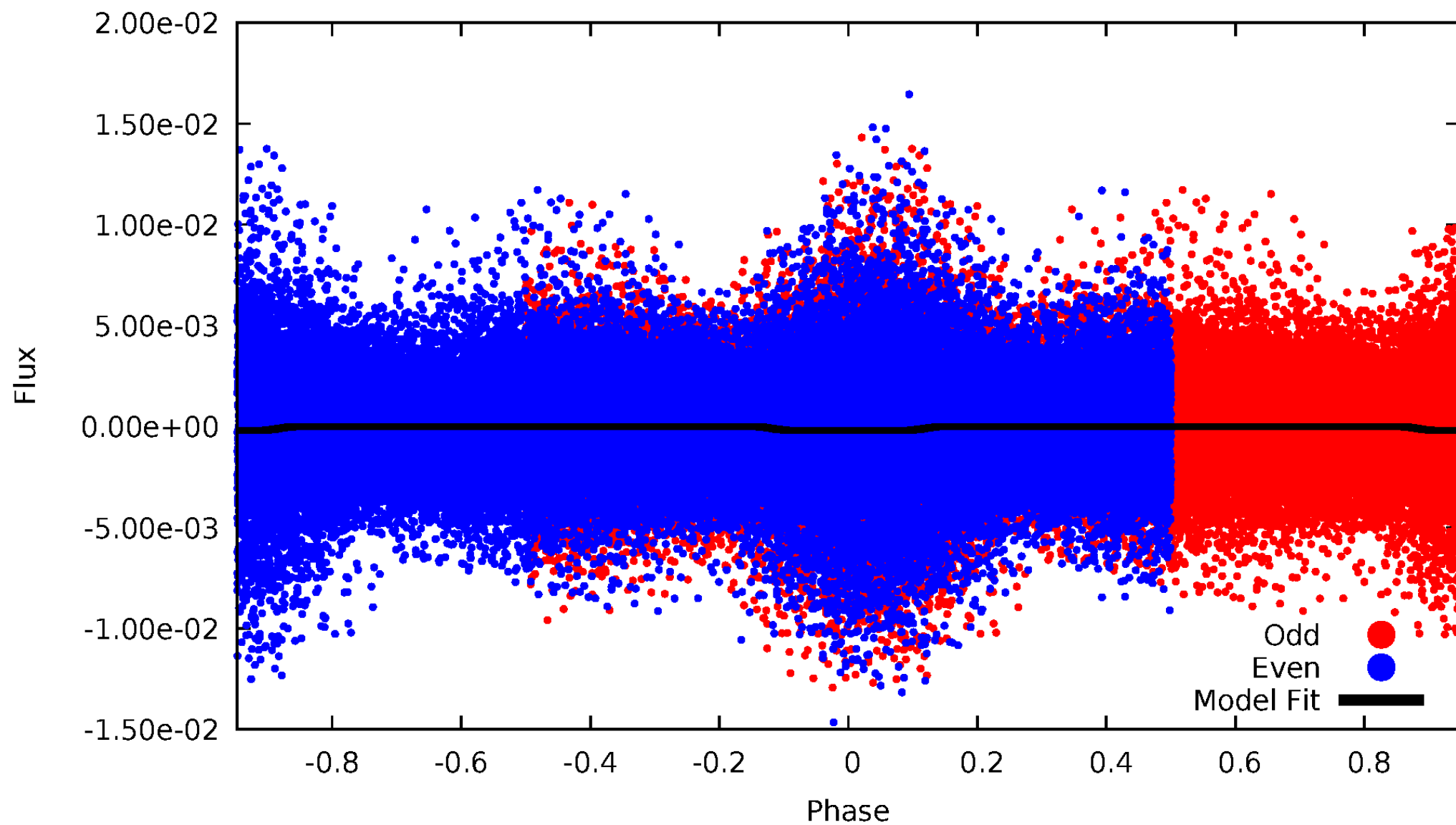
DV Odd/Even

TCE 008265126-01



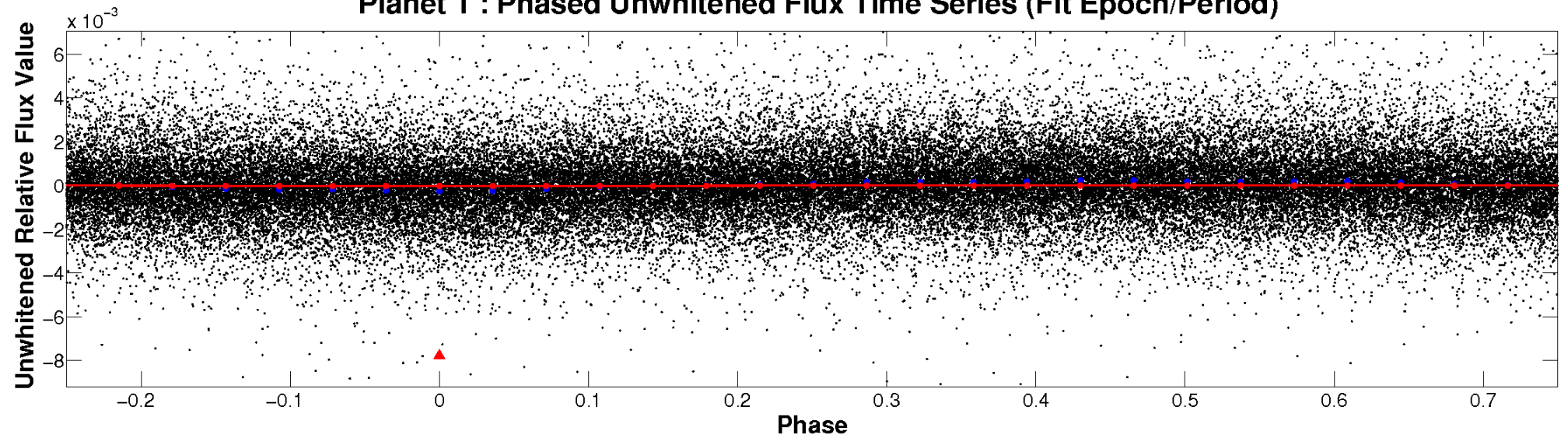
ALT Odd/Even

TCE 008265126-01

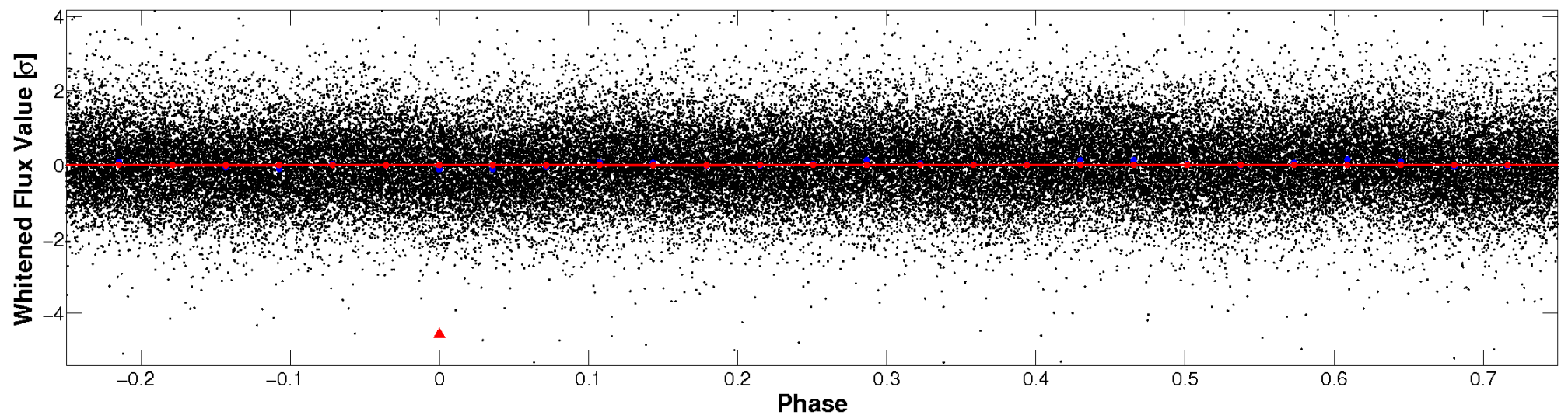


Non-Whitened Vs. Whitened Light Curve

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

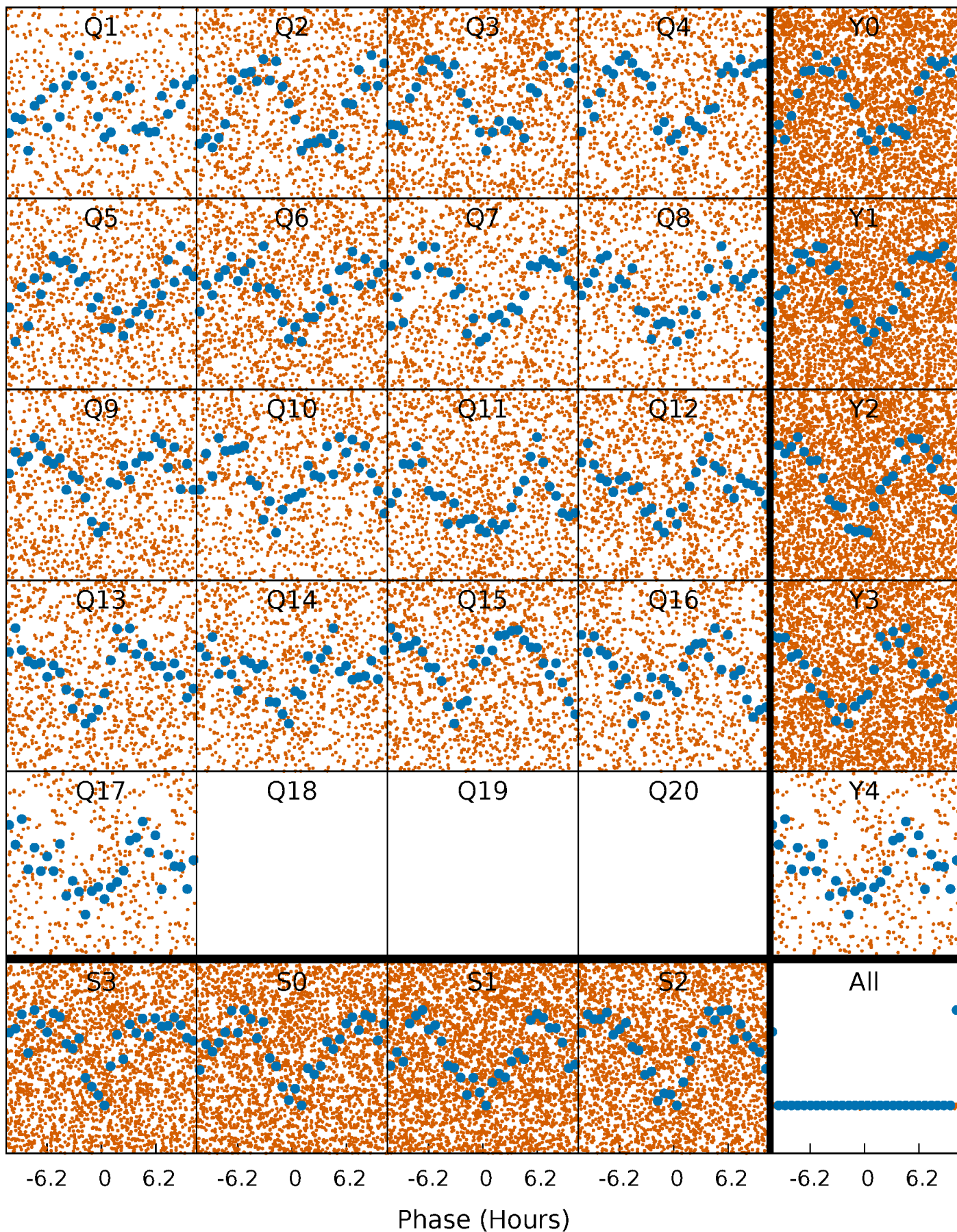


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



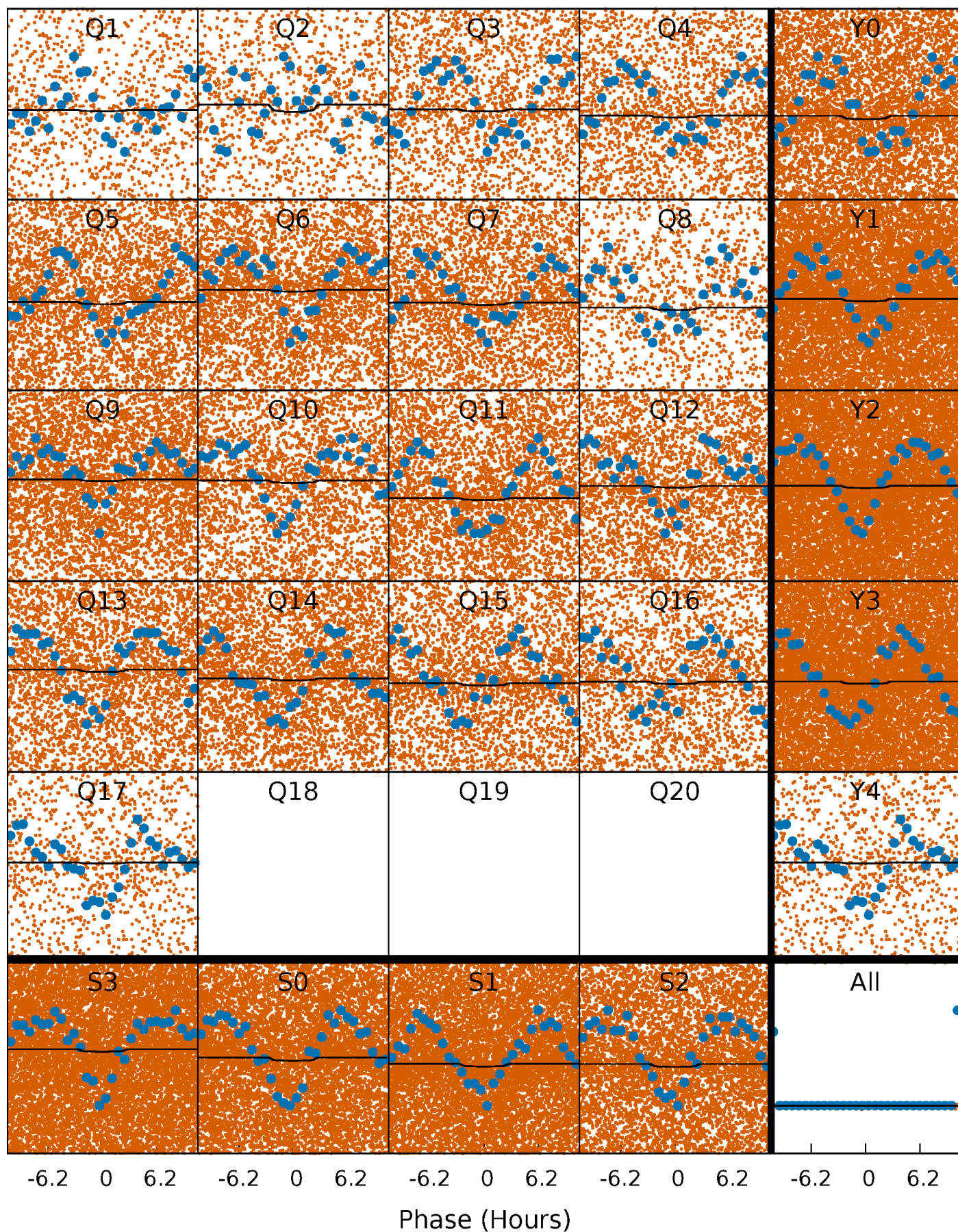
PDC Quarter-Phased Transit Curves

TCE 008265126-01 P= 0.570485 Days $T_0=131.925062$ (BKJD)



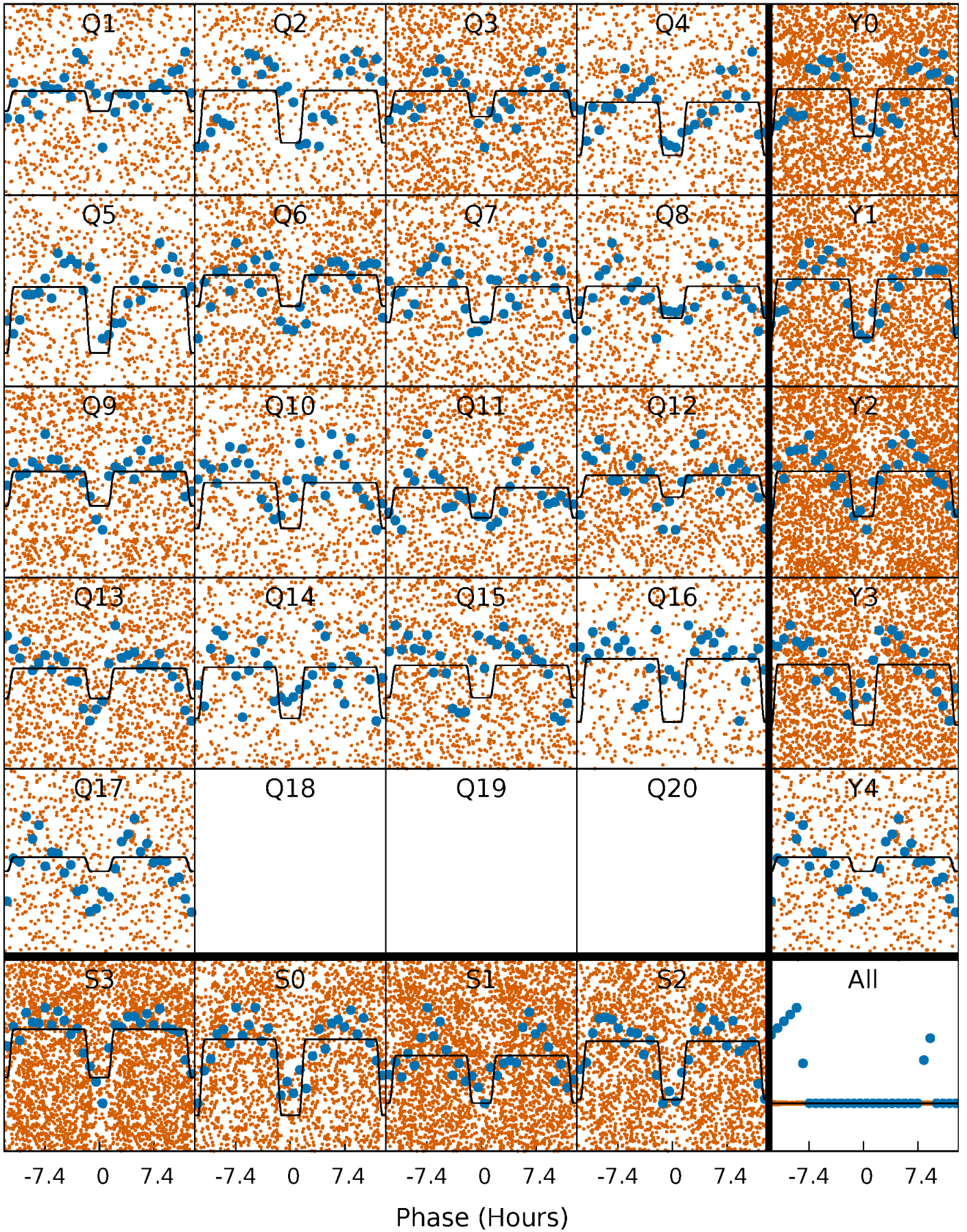
DV Quarter-Phased Transit Curves

TCE 008265126-01 P= 0.570485 Days $T_0=131.925062$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

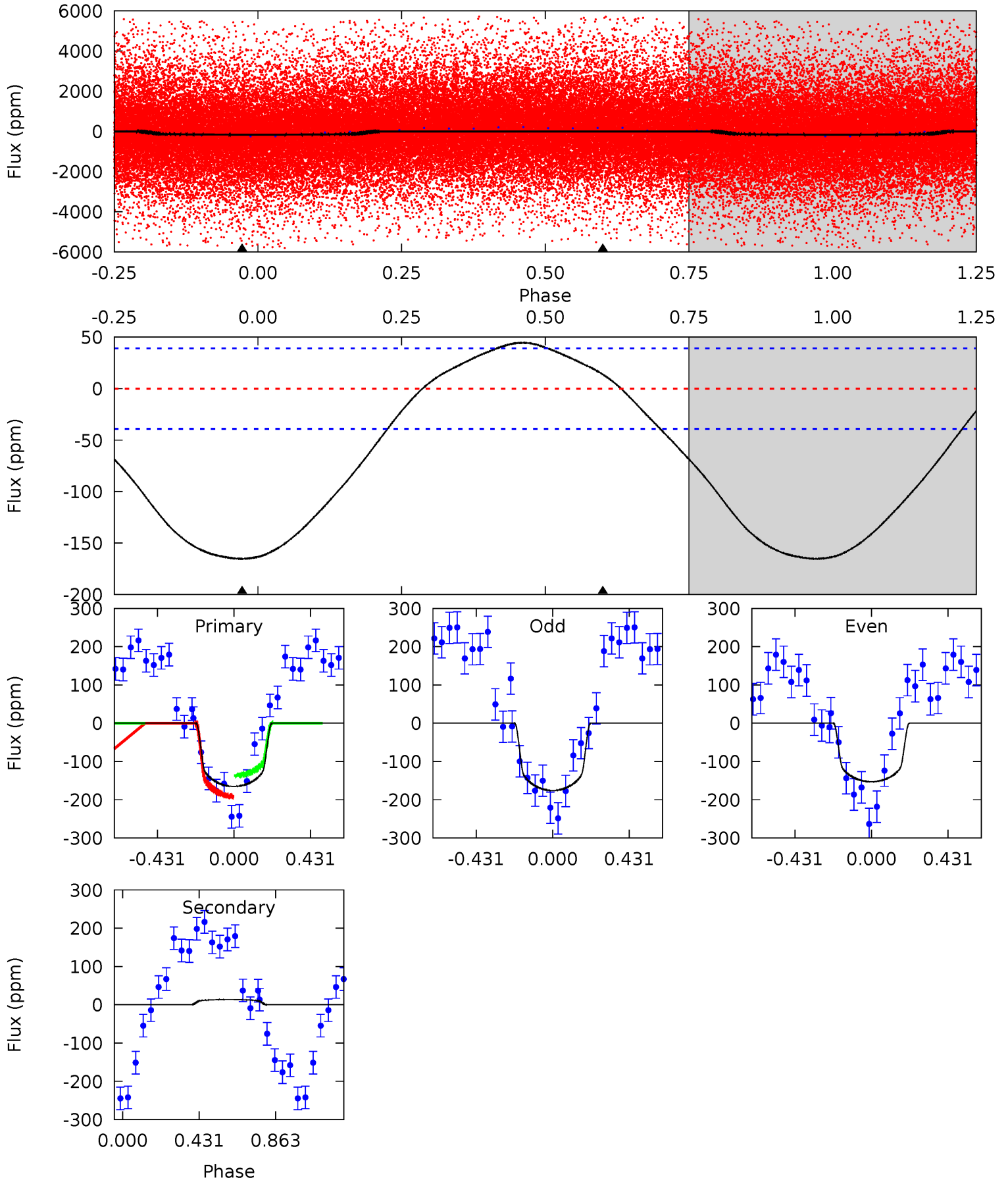
TCE 008265126-01 P= 0.570489 Days $T_0=131.917622$ (BKJD)



DV Model-Shift Uniqueness Test

008265126-01, $P = 0.570485$ Days, $E = 131.354577$ Days

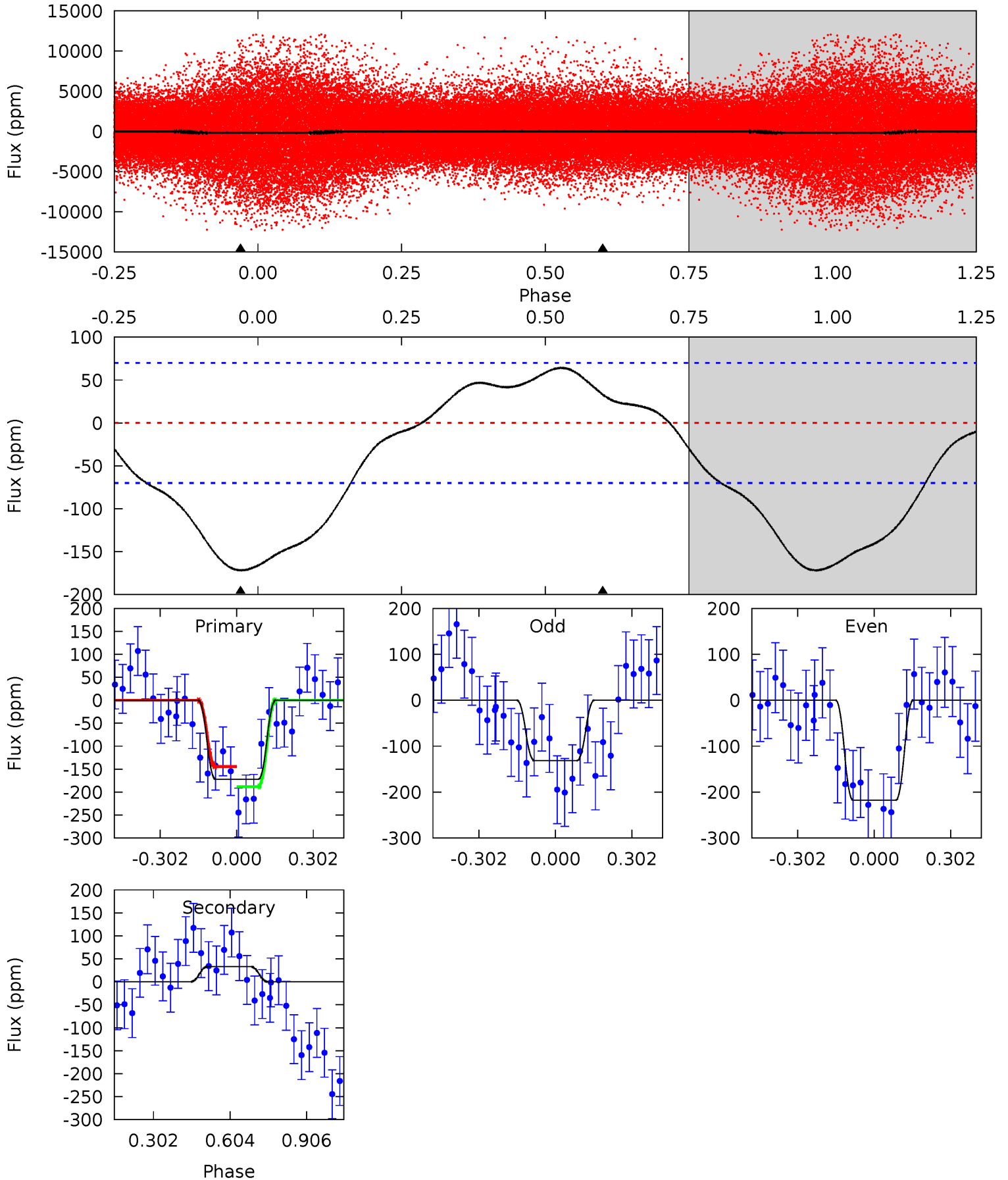
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.0	-1.50	0	0	4.25	0.79	1.61	18.0	18.0	-1.50	-1.50	1.25	1.23	0.21	2.95



Alt Model-Shift Uniqueness Test

008265126-01, P = 0.570489 Days, E = 131.347133 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	-2.04	0	0	4.33	1.03	0.78	10.6	10.6	-2.04	-2.04	2.60	2.40	0.27	0.95



Stellar Parameters For KIC 008265126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7639^{+211}_{-343}	$4.177^{+0.105}_{-0.195}$	$-0.040^{+0.200}_{-0.350}$	$1.710^{+0.533}_{-0.287}$	$1.602^{+0.219}_{-0.219}$	$0.451^{+0.219}_{-0.235}$
	+3%/-4%	+3%/-5%	+500%/-875%	+31%/-17%	+14%/-14%	+49%/-52%
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 008265126-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	14 ± 9	$0.92^{+0.72}_{-0.58}$	4938^{+395}_{-304}	-6525^{+1541}_{-5803}	$-1.874^{+1.499}_{-13.506}$
Alt.	33 ± 16	$2.71^{+0.85}_{-0.79}$	4942^{+387}_{-314}	-5297^{+521}_{-725}	$-0.595^{+0.360}_{-0.667}$

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

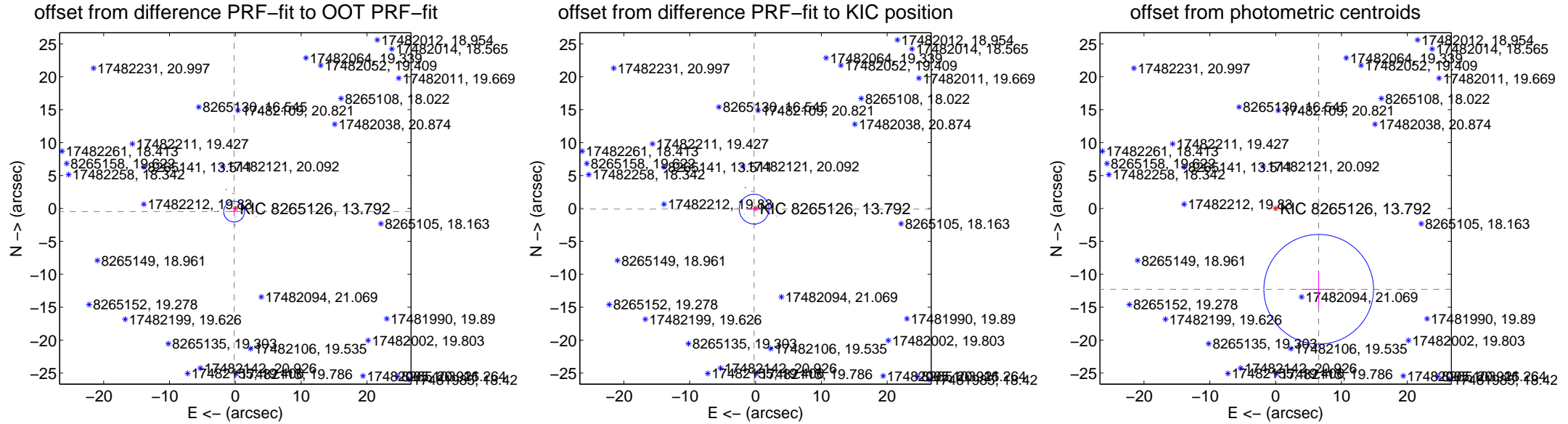
DV Centroid Data

Supplemental centroid analysis for 008265126-01. Kepler magnitude: 13.79. Transit SNR 1.29

There are 3 quarters with good PRF difference image offsets

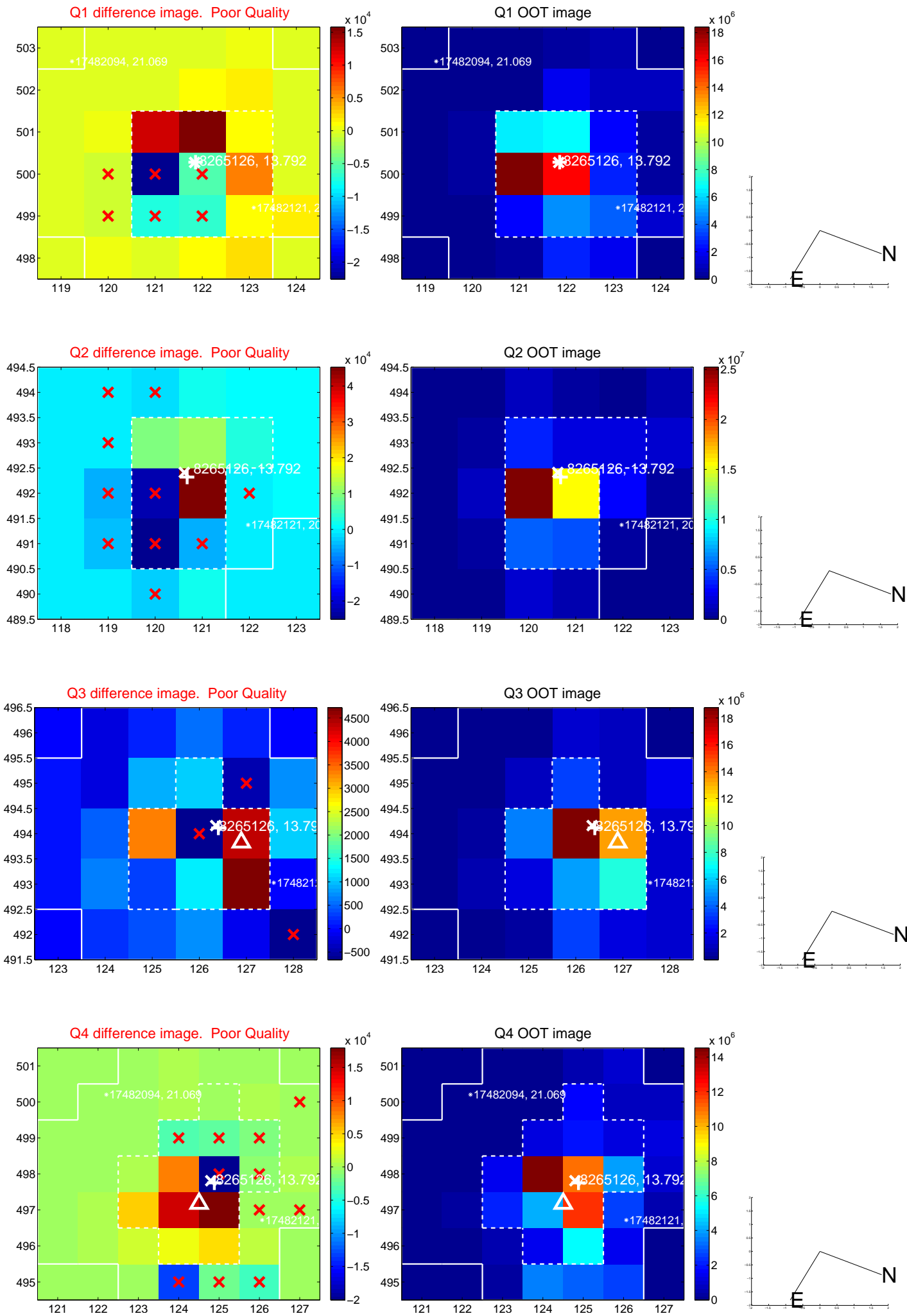
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.513 ± 0.527	0.97	0.186 ± 0.636	-0.478 ± 0.547
PRF-fit source offset from KIC position	0.231 ± 0.753	0.31	0.208 ± 0.822	-0.100 ± 0.318
photometric centroid source offset	13.91 ± 2.78	5.01	-6.54 ± 2.47	-12.28 ± 2.86

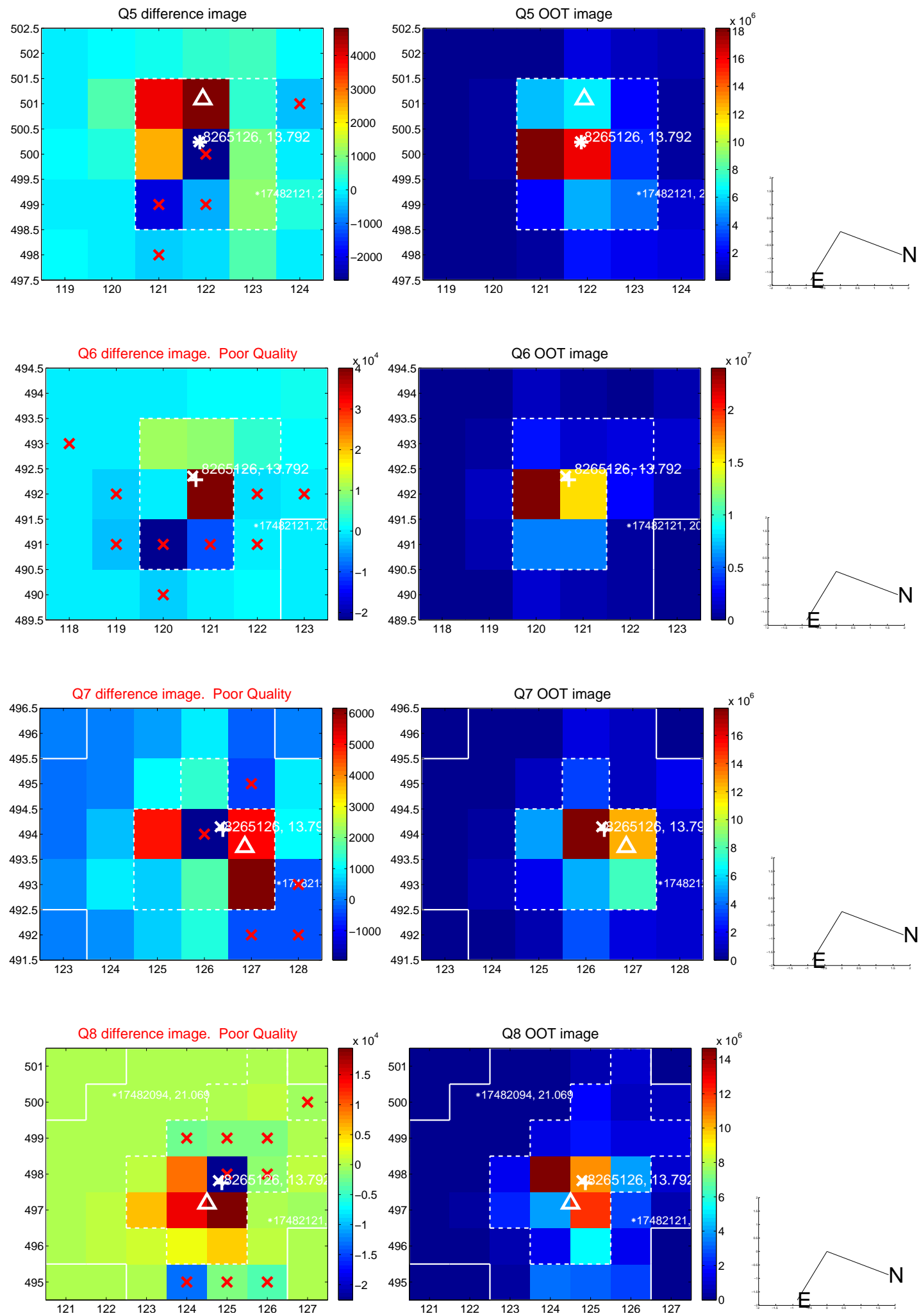


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

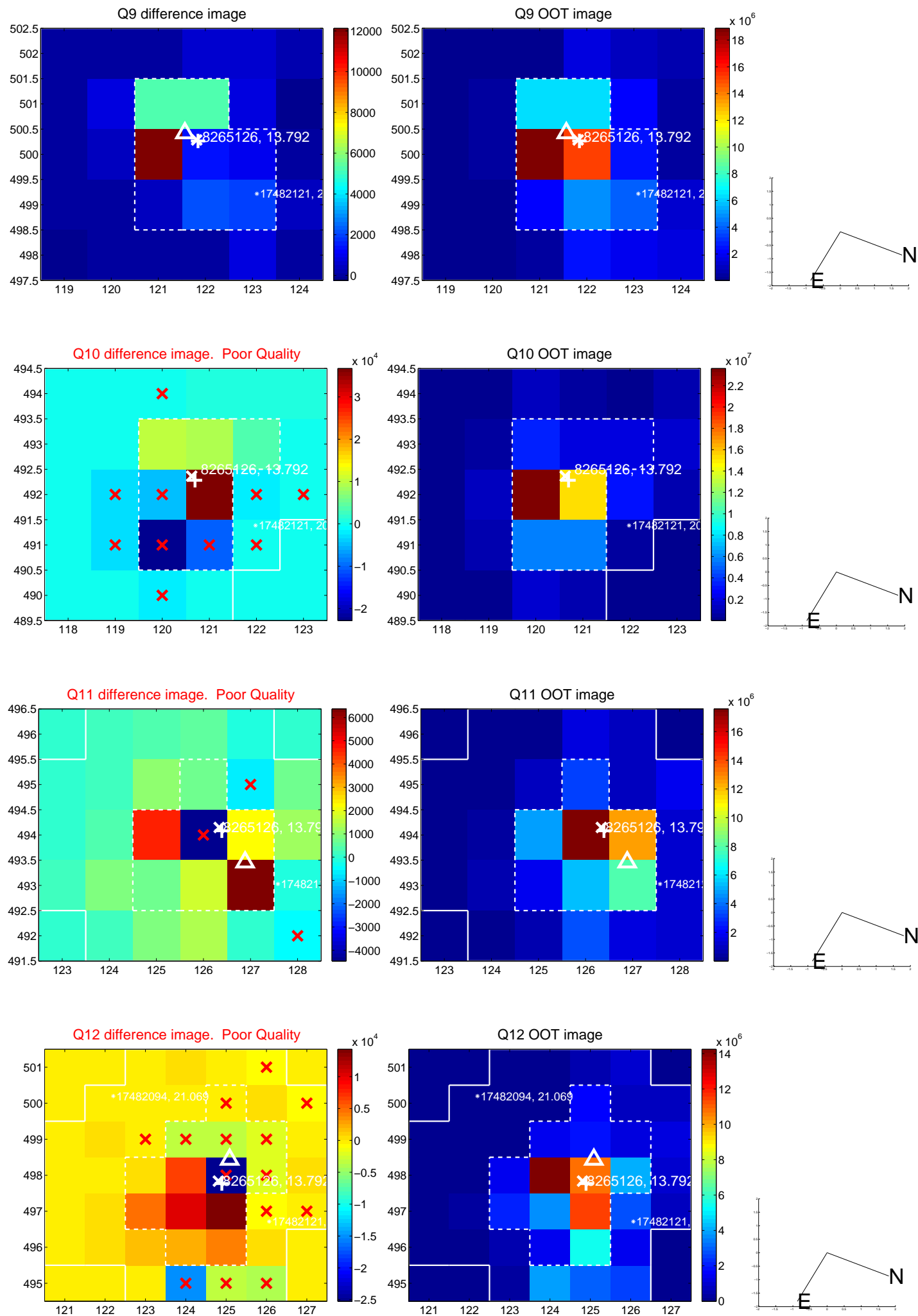
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



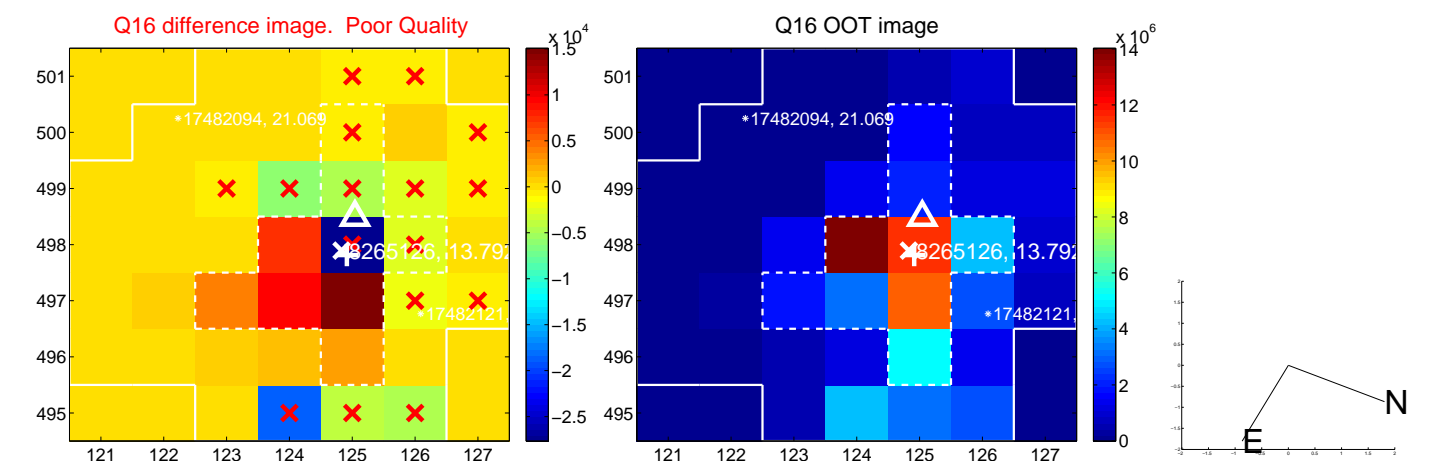
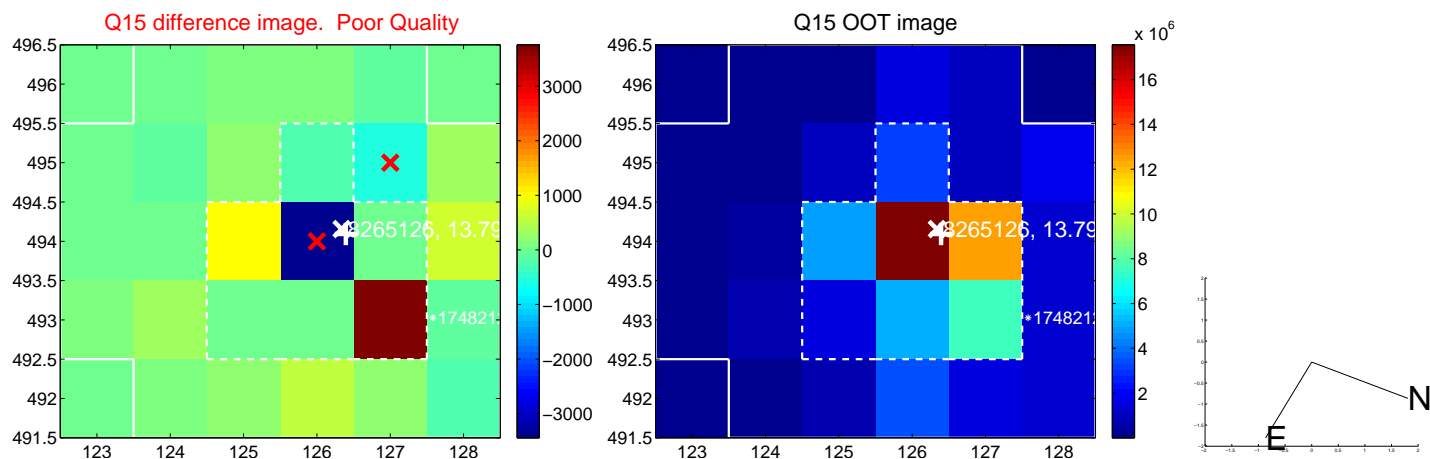
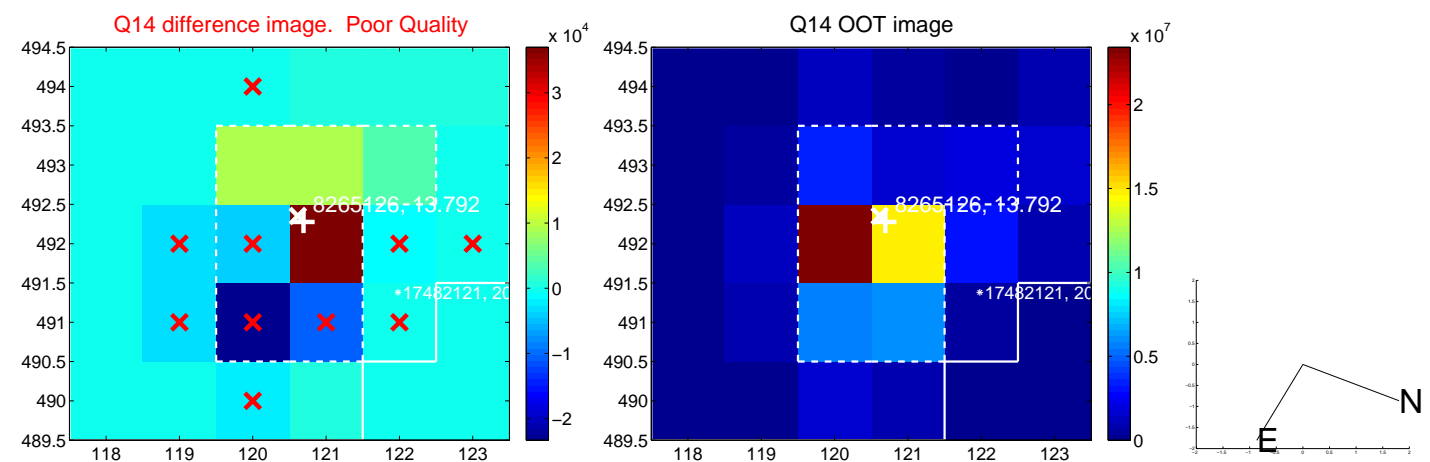
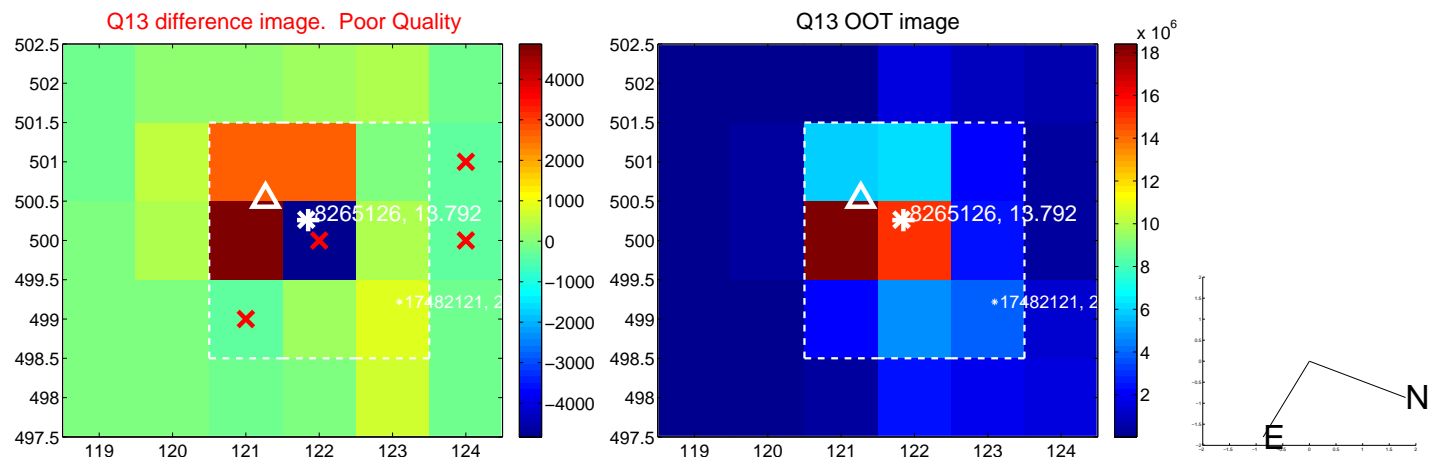
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



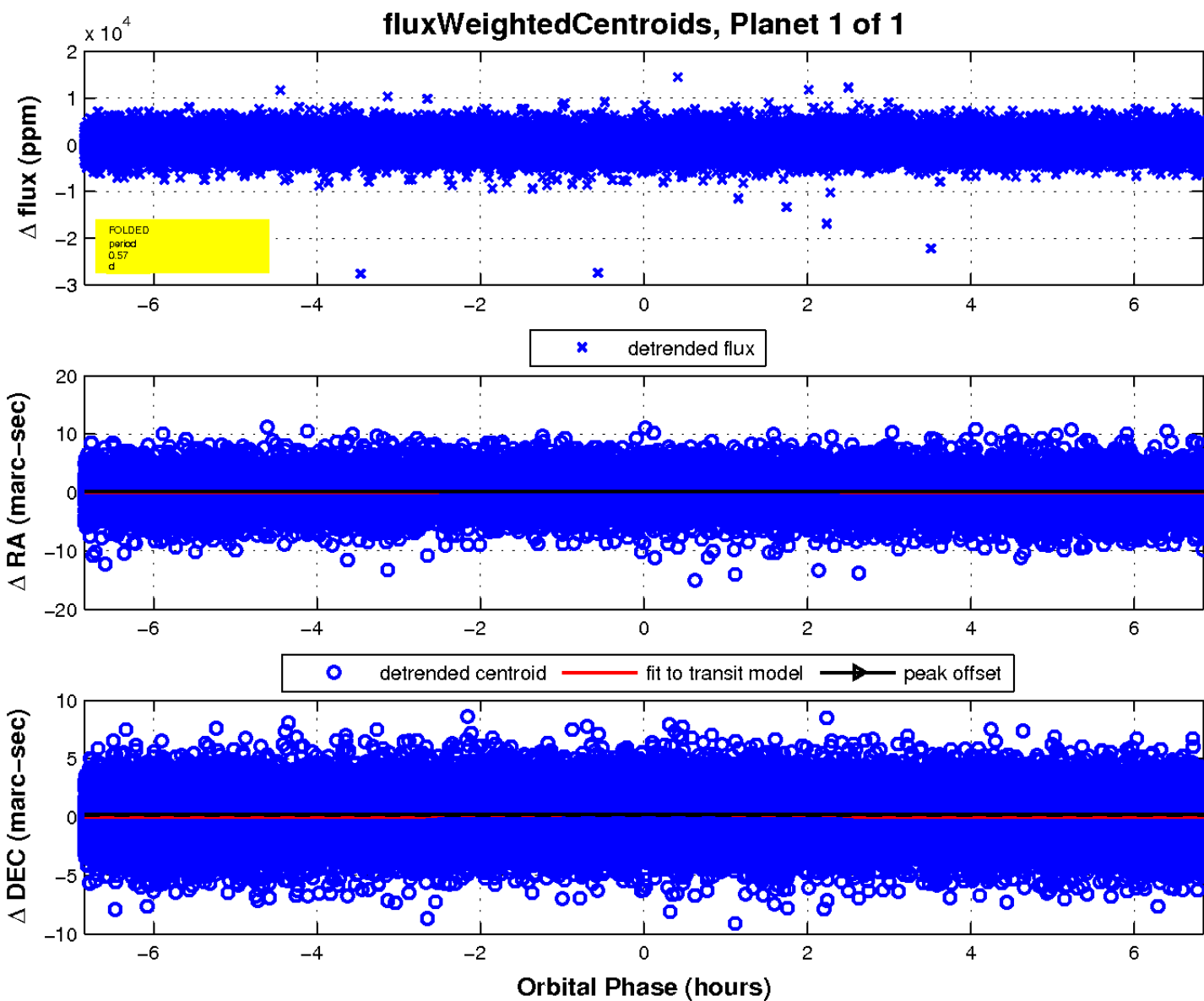
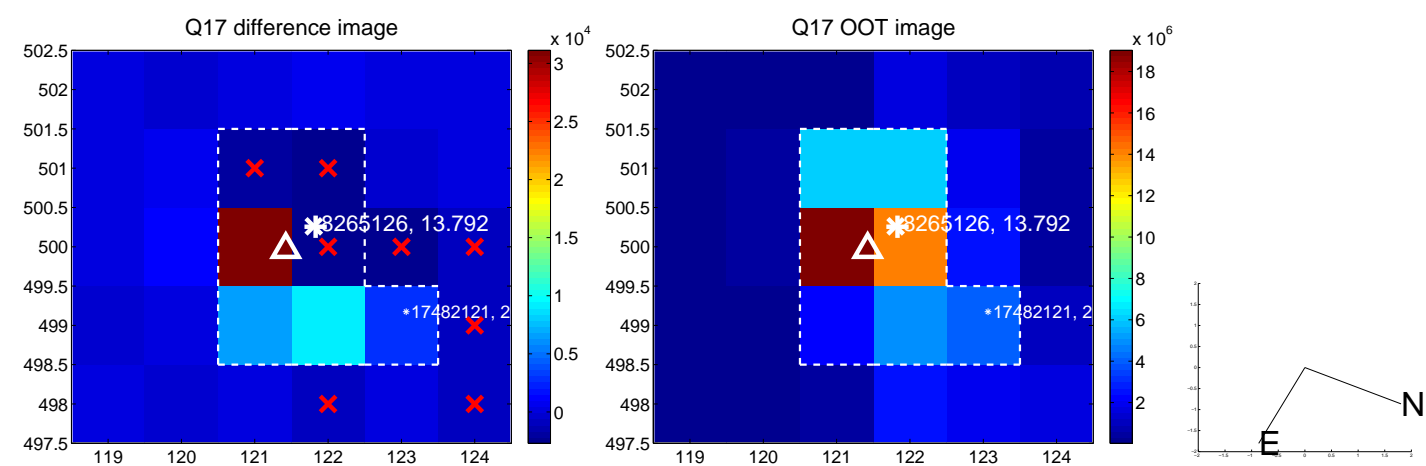
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

