

KIC 003348390

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})
003348390-01	OBS	No	0.959504	132.239415	64.3	2.192	14.1	11.8	1.80	6864	1.69	13217.16

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003348390-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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.

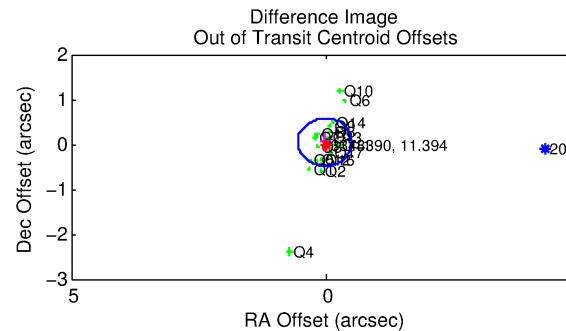
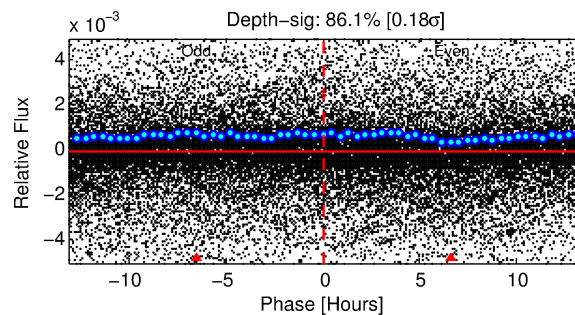
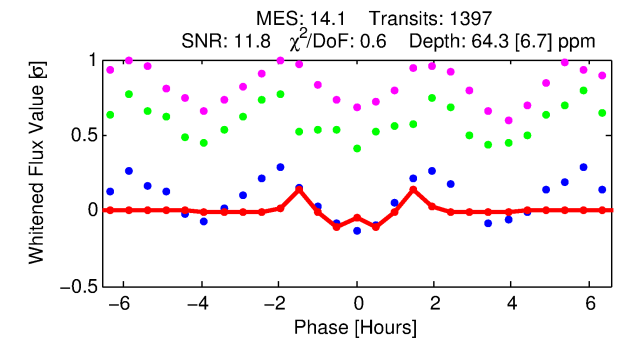
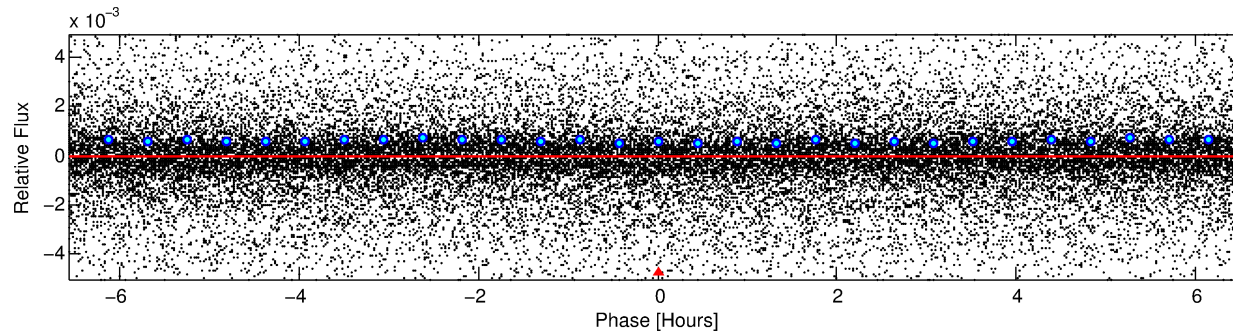
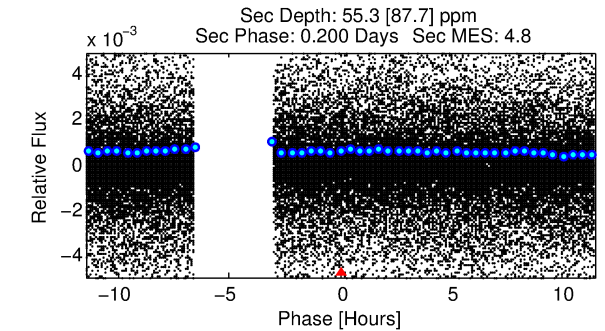
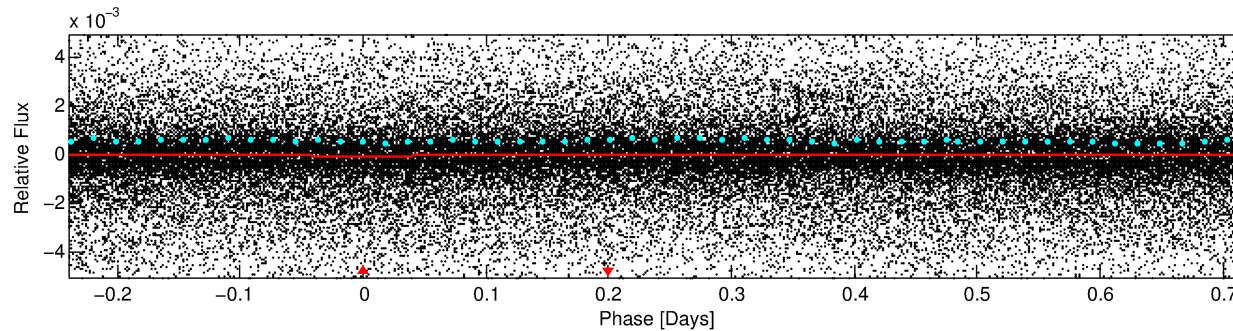
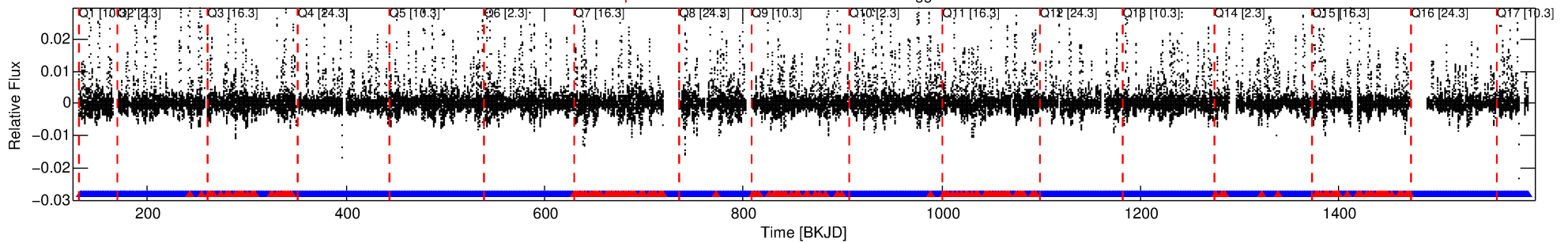
Ephemeris Match Information For 003348390-01

No Significant Match Found

DV One-Page Summary

KIC: 3348390 Candidate: 1 of 1 Period: 0.960 d

Kp: 11.39 R*: 1.80 Rs Teff: 6864.0 K Logg: 4.12 Fe/H: 0.260



DV Fit Results:

Period = 0.95950 [0.00001] d
Epoch = 132.2394 [0.0008] BKJD
Rp/R* = 0.0086 [0.0012]
a/R* = 1.78 [0.94]
b = 0.90 [0.16]
Seff = 13217.16 [3135.46]
Teff = 2734 [162] K
Rp = 1.69 [0.40] Re
a = 0.0221 [0.0034] AU
Ag = 5.23 [8.50] [0.50σ]
Teffp = 6392 [2581] K [1.41σ]

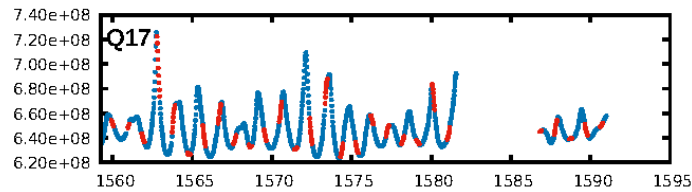
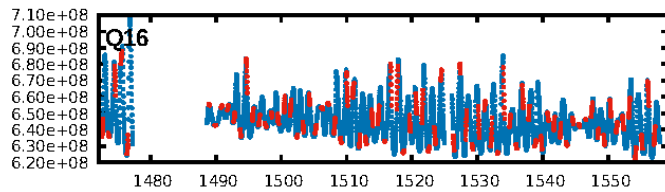
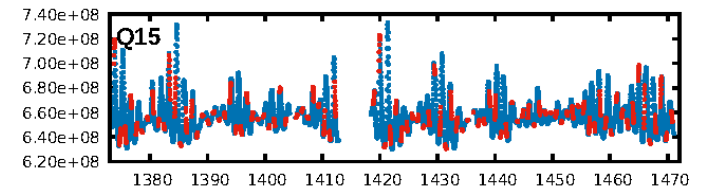
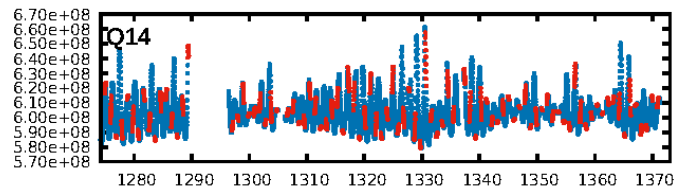
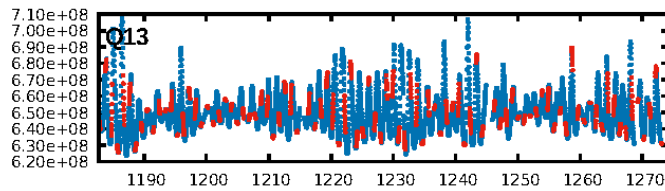
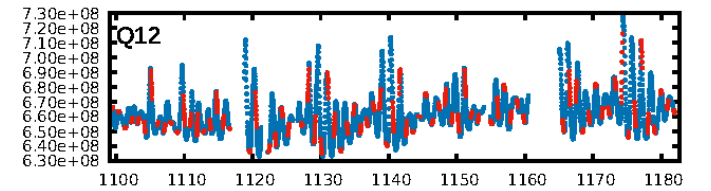
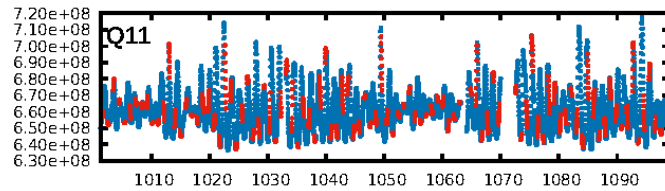
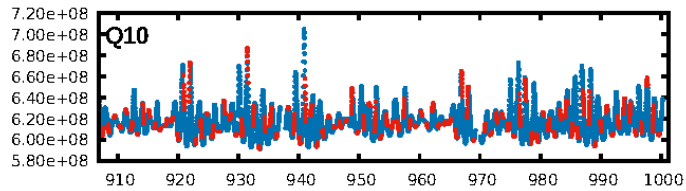
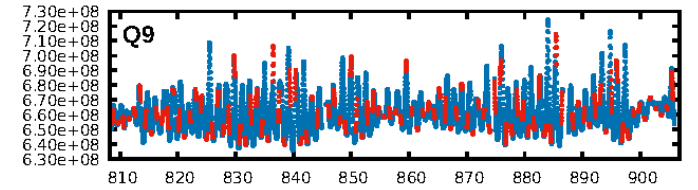
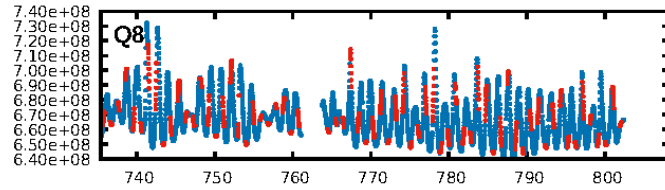
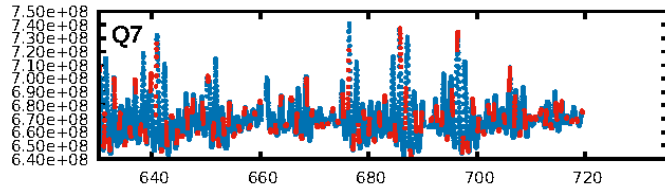
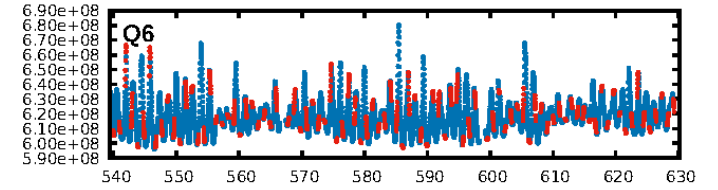
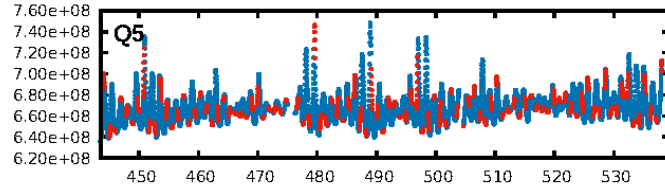
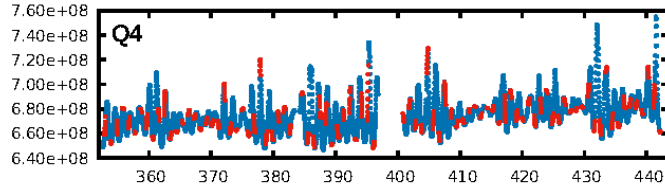
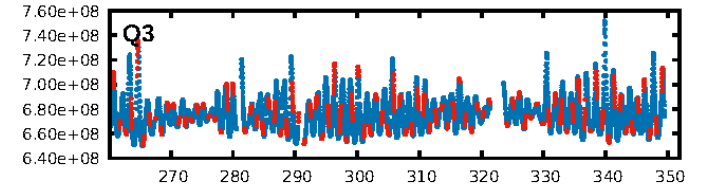
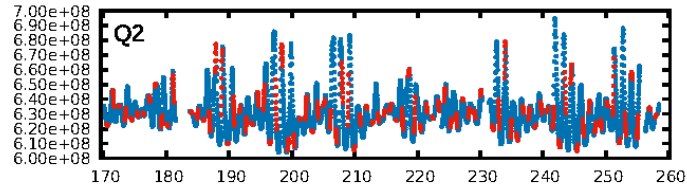
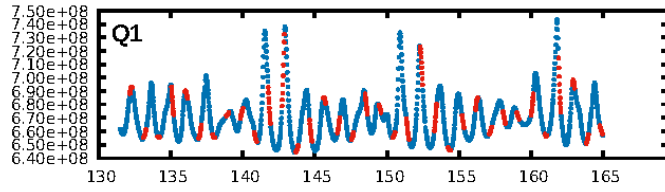
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.02e-58
RollingBand-fgt: 0.87 [1165/1334]
GhostDiagnostic-chr: 0.9819
Centroid-sig: 25.3%
Centroid-so: 0.185 arcsec [0.70σ]
OotOffset-rm: 0.049 arcsec [0.28σ]
KicOffset-rm: 0.170 arcsec [1.99σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 1.00 [17/17]

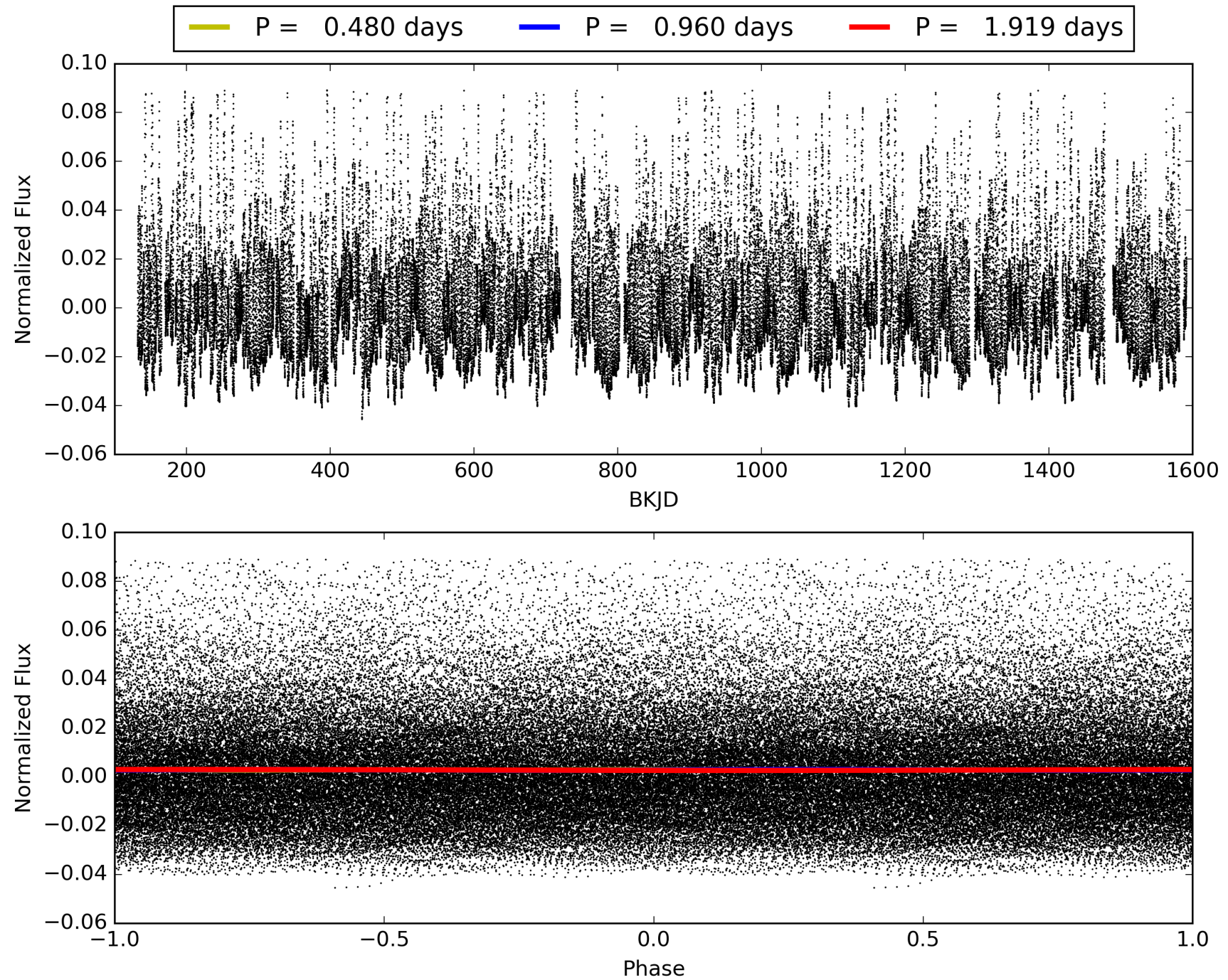
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:46:47 Z

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

TCE 003348390-01, PDC Light Curves

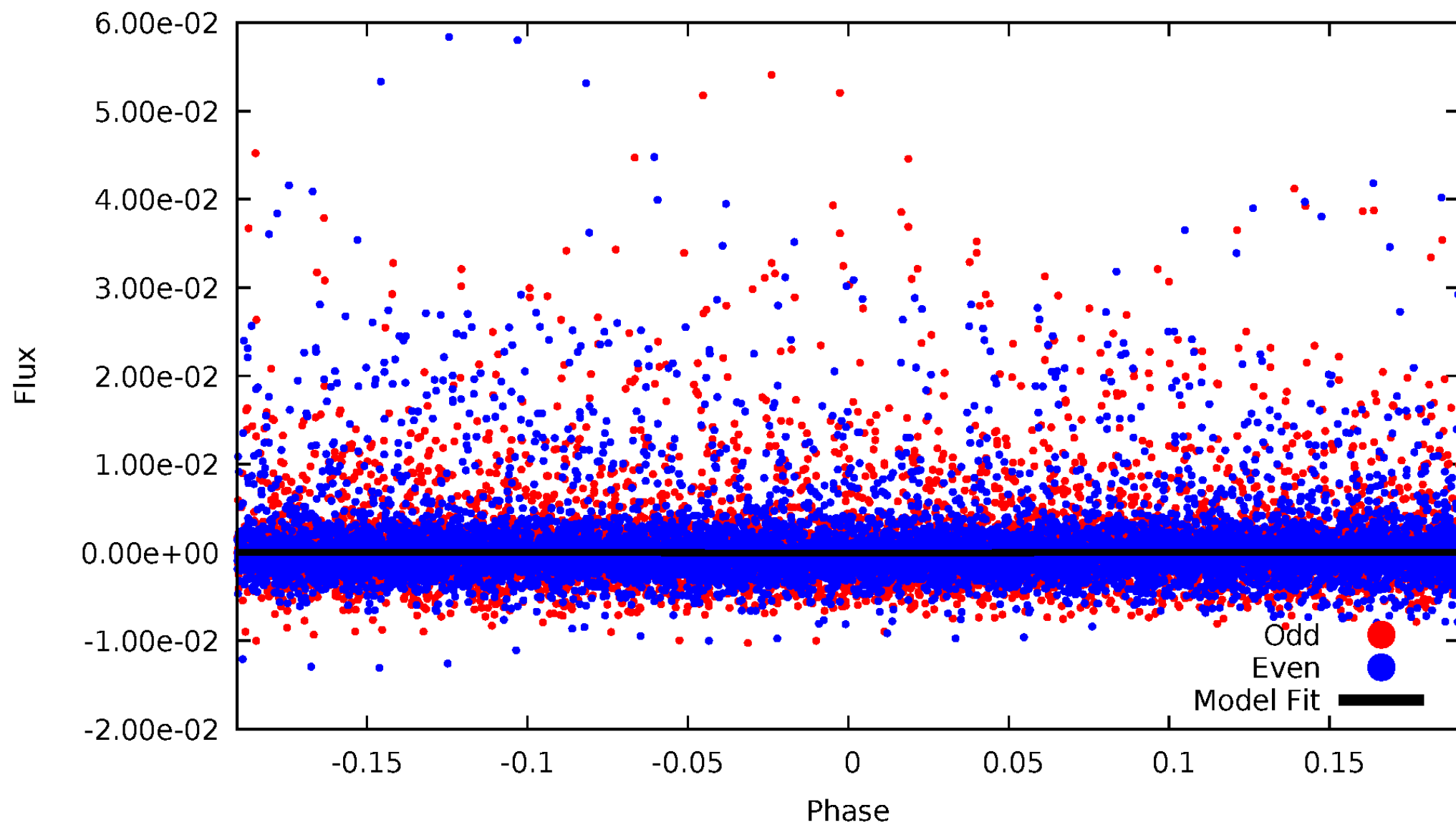


TCE 003348390-01



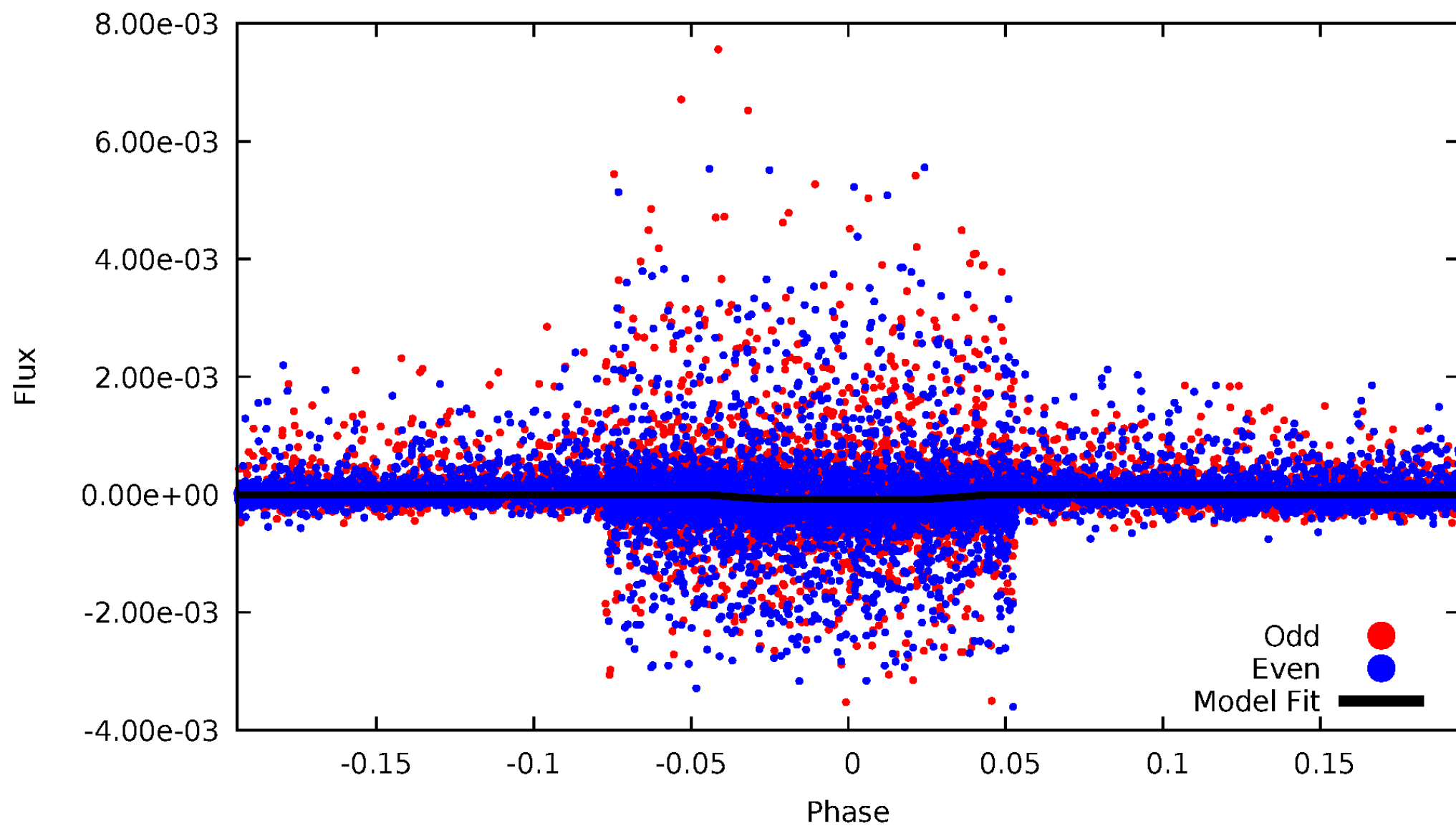
DV Odd/Even

TCE 003348390-01



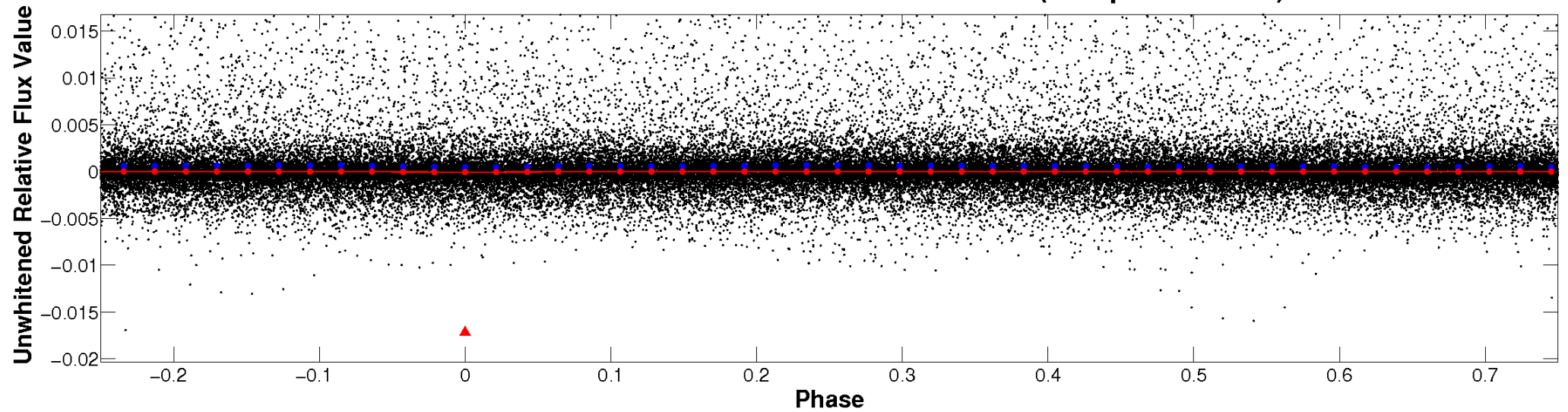
ALT Odd/Even

TCE 003348390-01

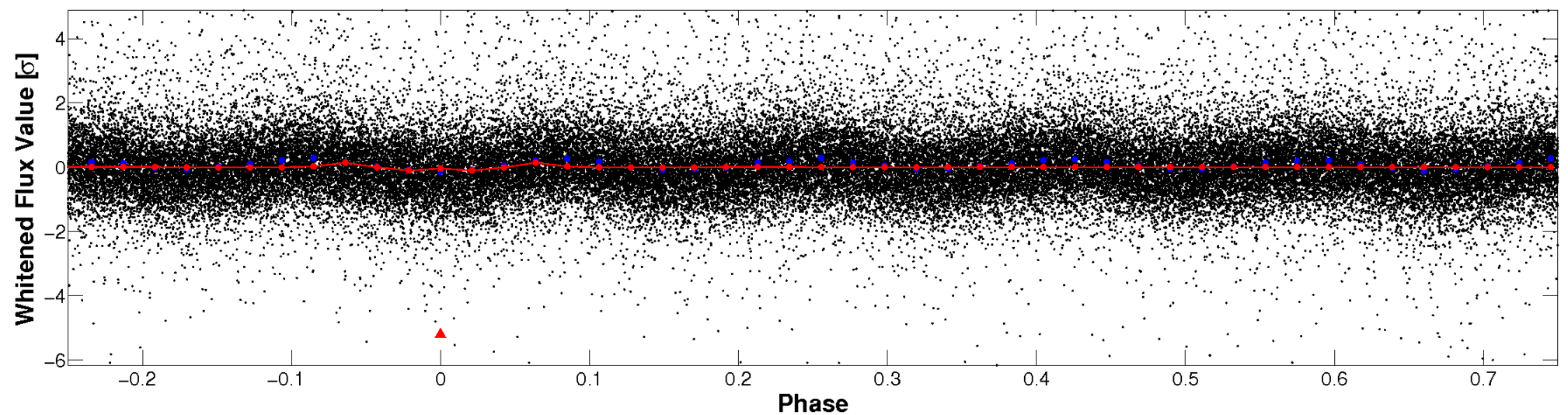


Non-Whitened Vs. Whitened Light Curve

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

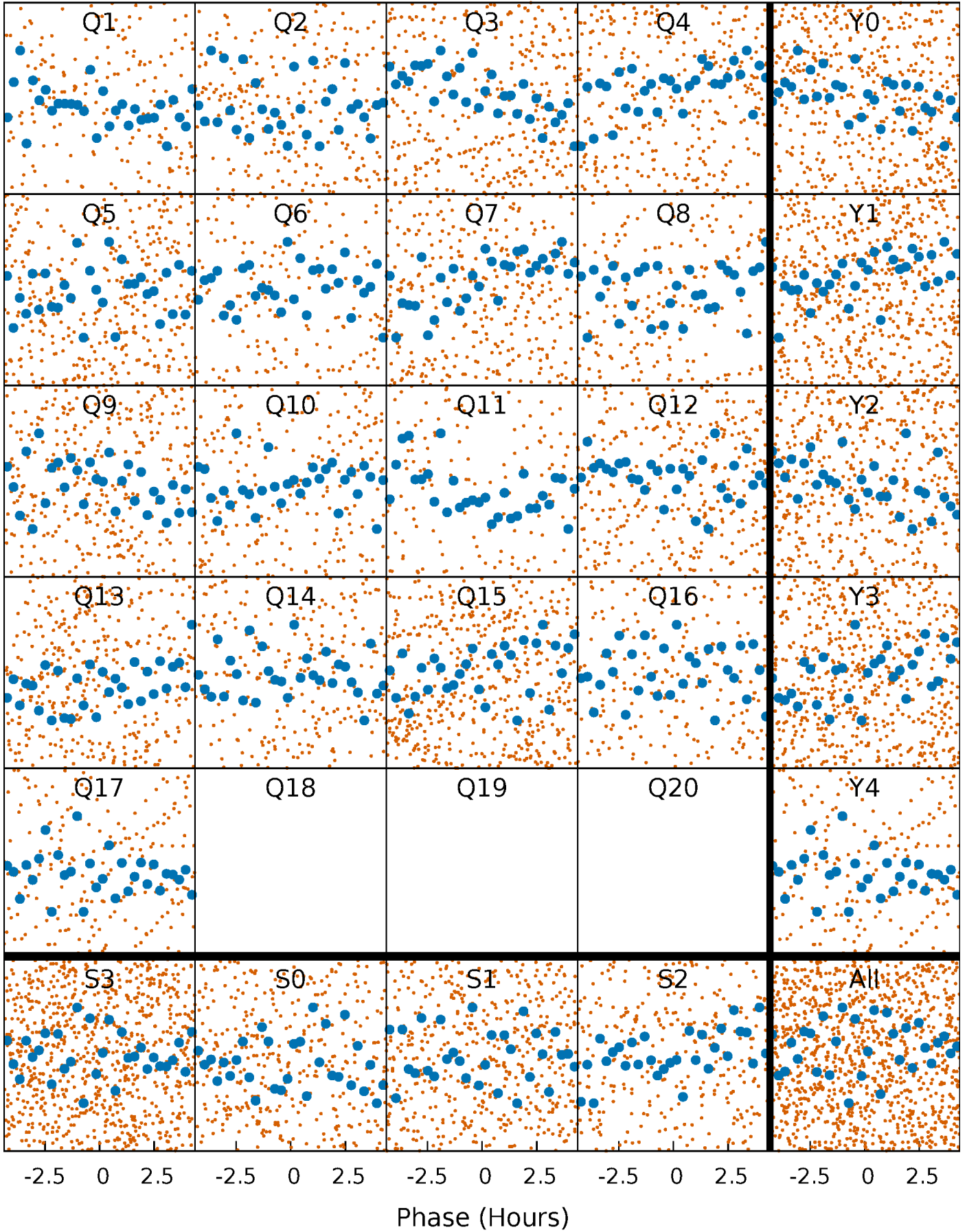


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



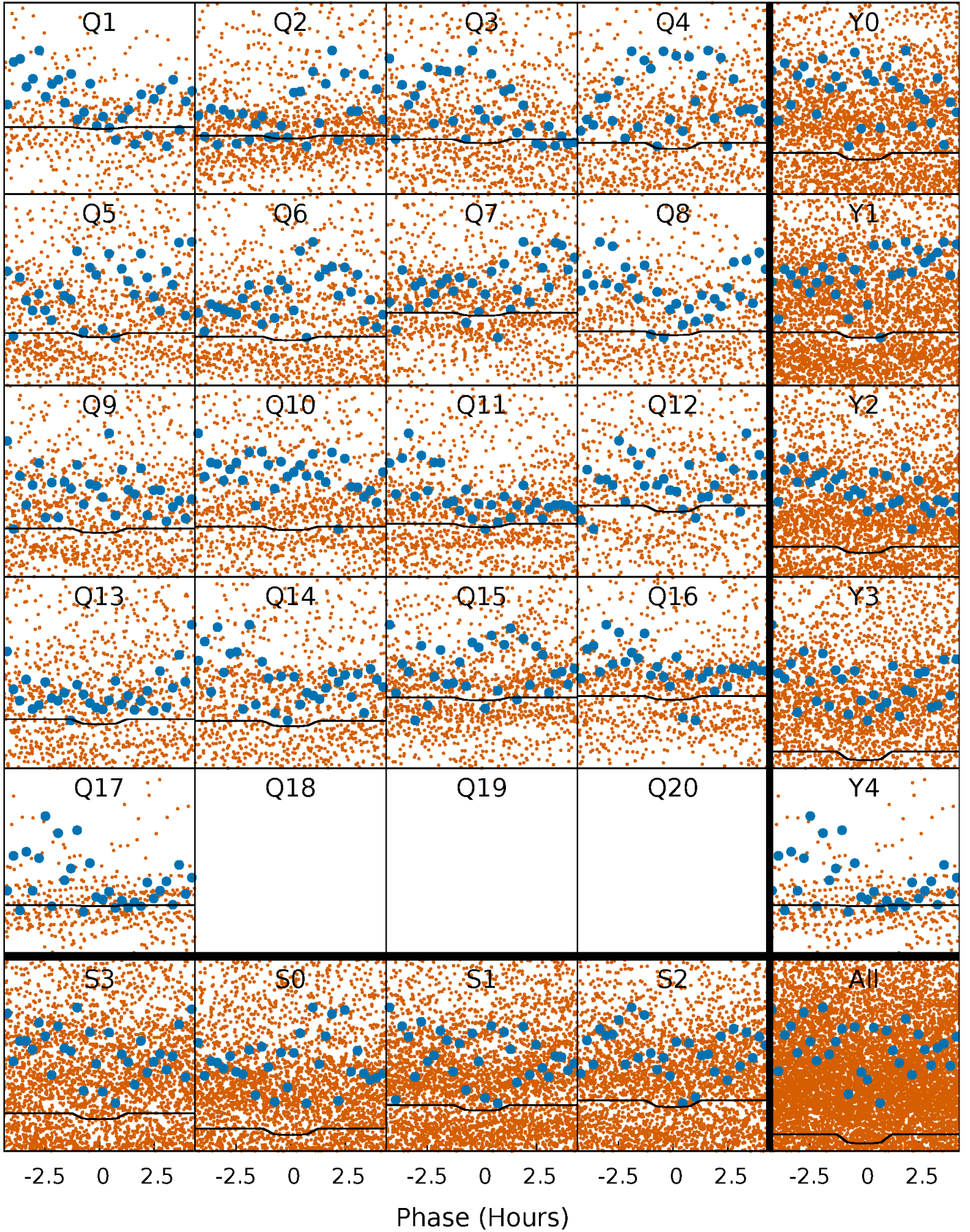
PDC Quarter-Phased Transit Curves

TCE 003348390-01 P= 0.959504 Days $T_0=132.239415$ (BKJD)



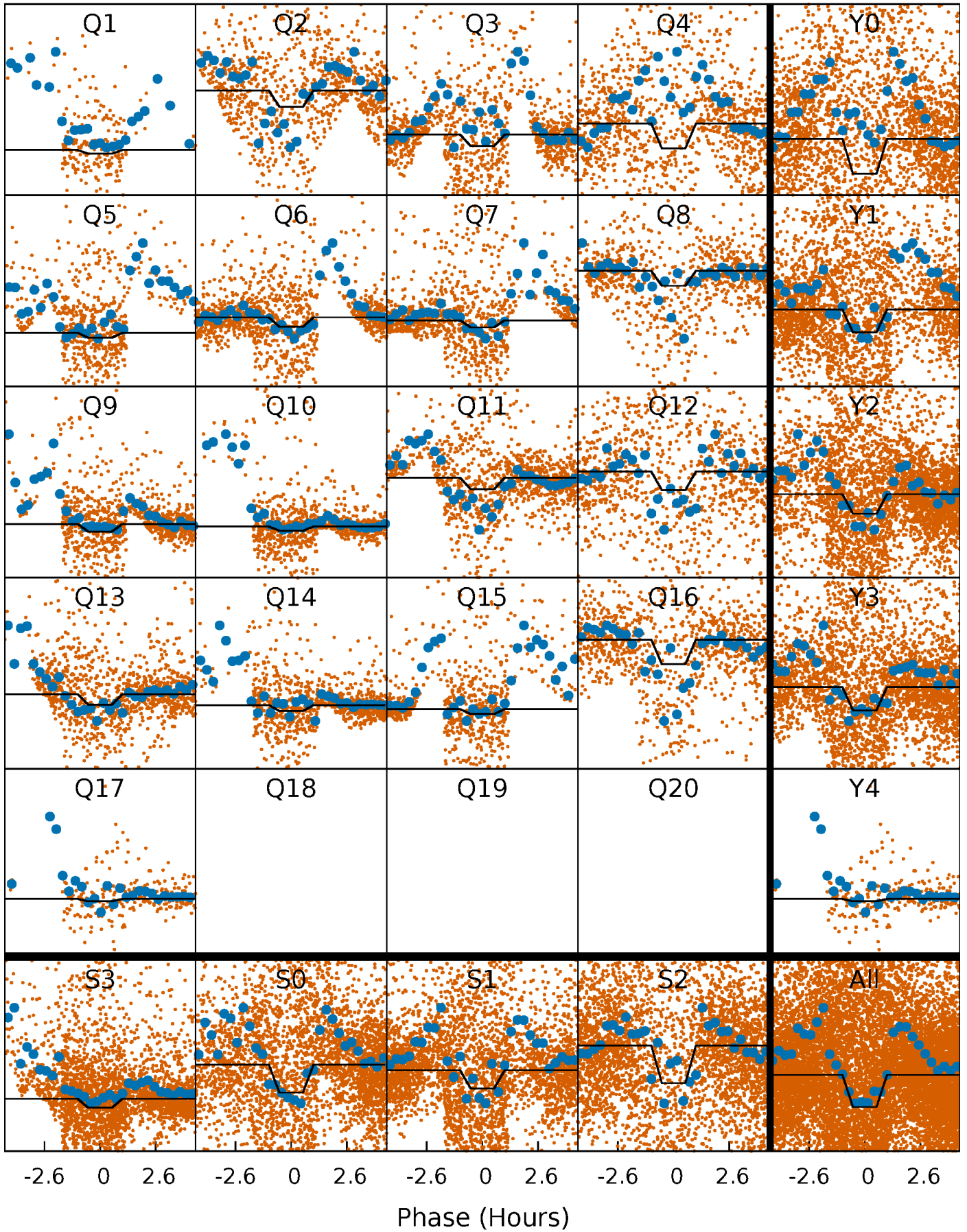
DV Quarter-Phased Transit Curves

TCE 003348390-01 P= 0.959504 Days $T_0=132.239415$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

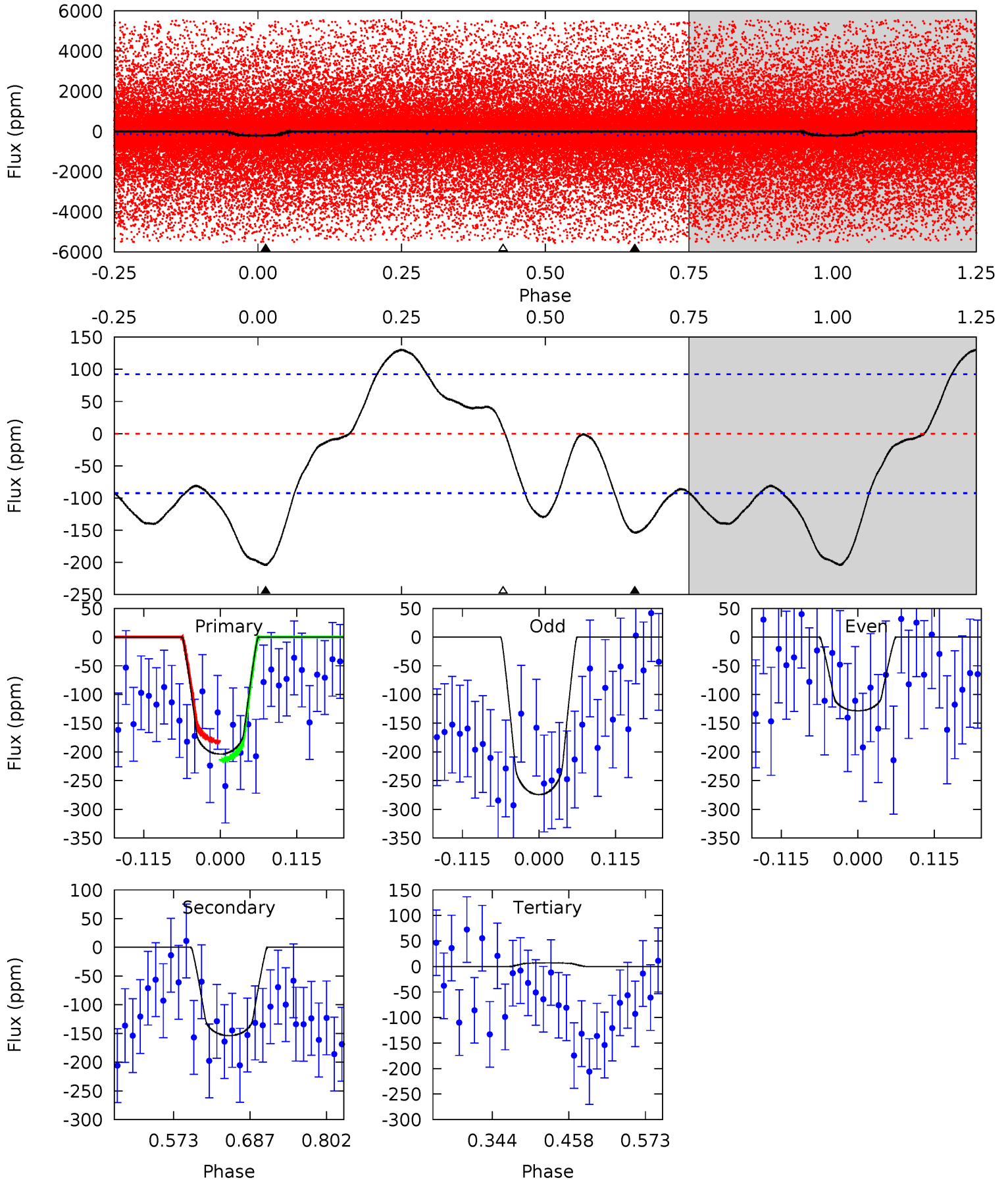
TCE 003348390-01 P= 0.959506 Days $T_0=132.239254$ (BKJD)



DV Model-Shift Uniqueness Test

003348390-01, P = 0.959504 Days, E = 131.279911 Days

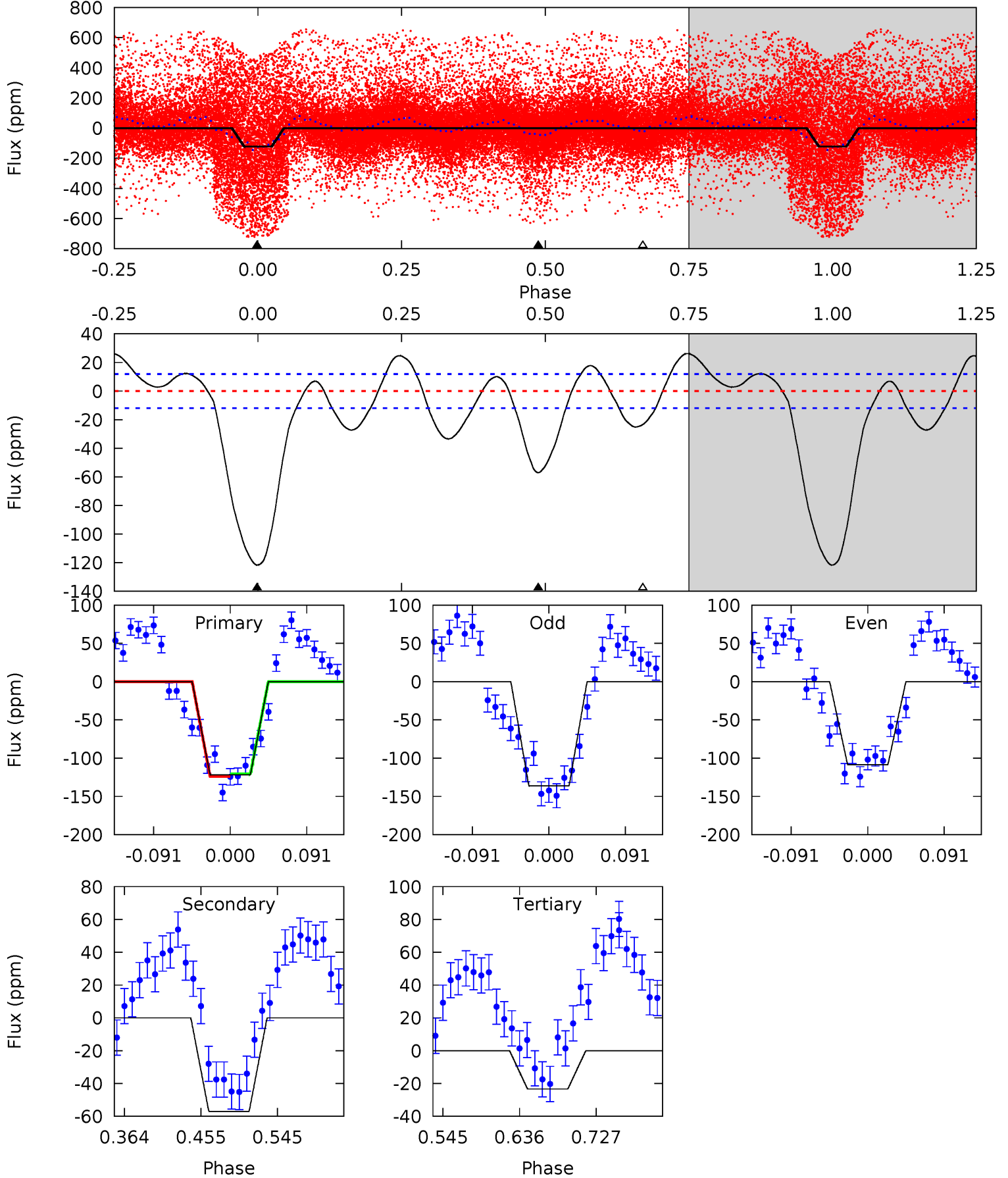
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.0	7.56	-0.35	0	4.54	1.58	4.41	10.4	10.0	7.90	7.56	3.63	-16.6	0.39	0.82



Alt Model-Shift Uniqueness Test

003348390-01, P = 0.959506 Days, E = 131.279748 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
46.9	22.0	9.00	0	4.58	1.69	6.75	37.9	46.9	13.0	22.0	5.37	0.50	0.18	0.63



Stellar Parameters For KIC 003348390

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6864^{+109}_{-164}	$4.121^{+0.084}_{-0.116}$	$0.260^{+0.150}_{-0.150}$	$1.803^{+0.336}_{-0.224}$	$1.565^{+0.123}_{-0.123}$	$0.376^{+0.140}_{-0.133}$
	+2%/-2%	+2%/-3%	+58%/-58%	+19%/-12%	+8%/-8%	+37%/-35%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 003348390-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-154 ± 20	$1.70^{+0.31}_{-0.27}$	3829^{+162}_{-157}	8451^{+1080}_{-803}	14^{+6}_{-4}
Alt.	-57 ± 3	$1.82^{+0.30}_{-0.30}$	3825^{+184}_{-147}	6064^{+566}_{-371}	$4.607^{+1.849}_{-1.220}$

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 $A_{obs} \gg 1.0$

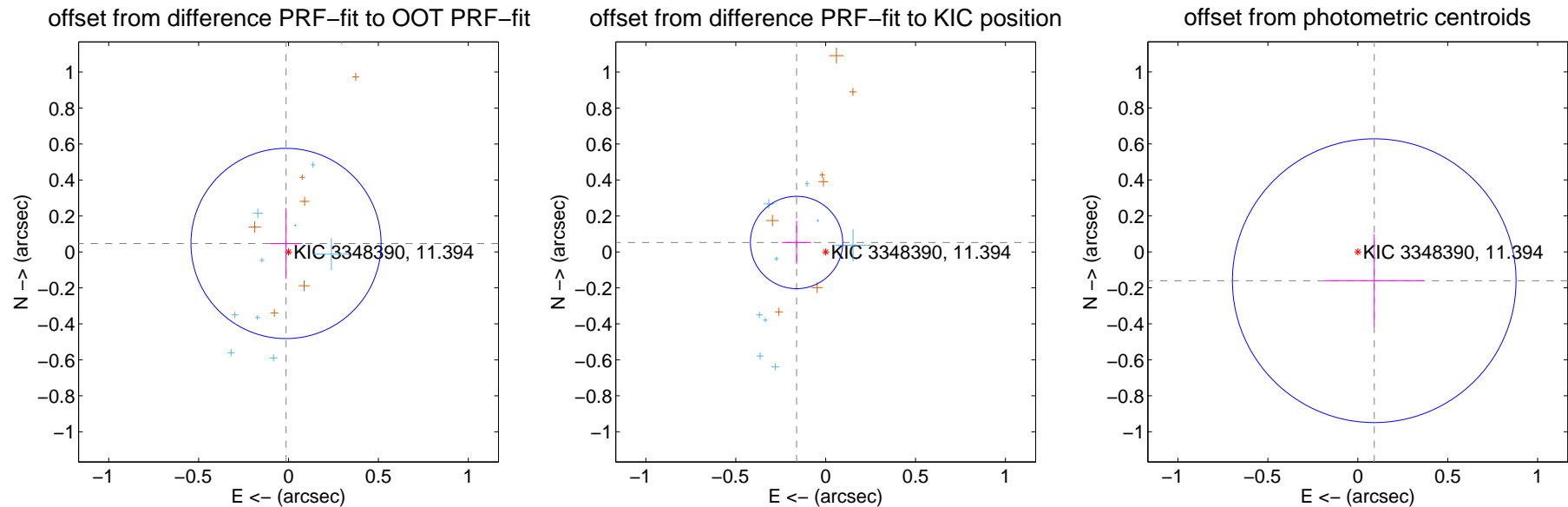
DV Centroid Data

Supplemental centroid analysis for 003348390-01. **Kepler magnitude: 11.39.** Transit SNR 11.75

There are 9 quarters with good PRF difference image offsets

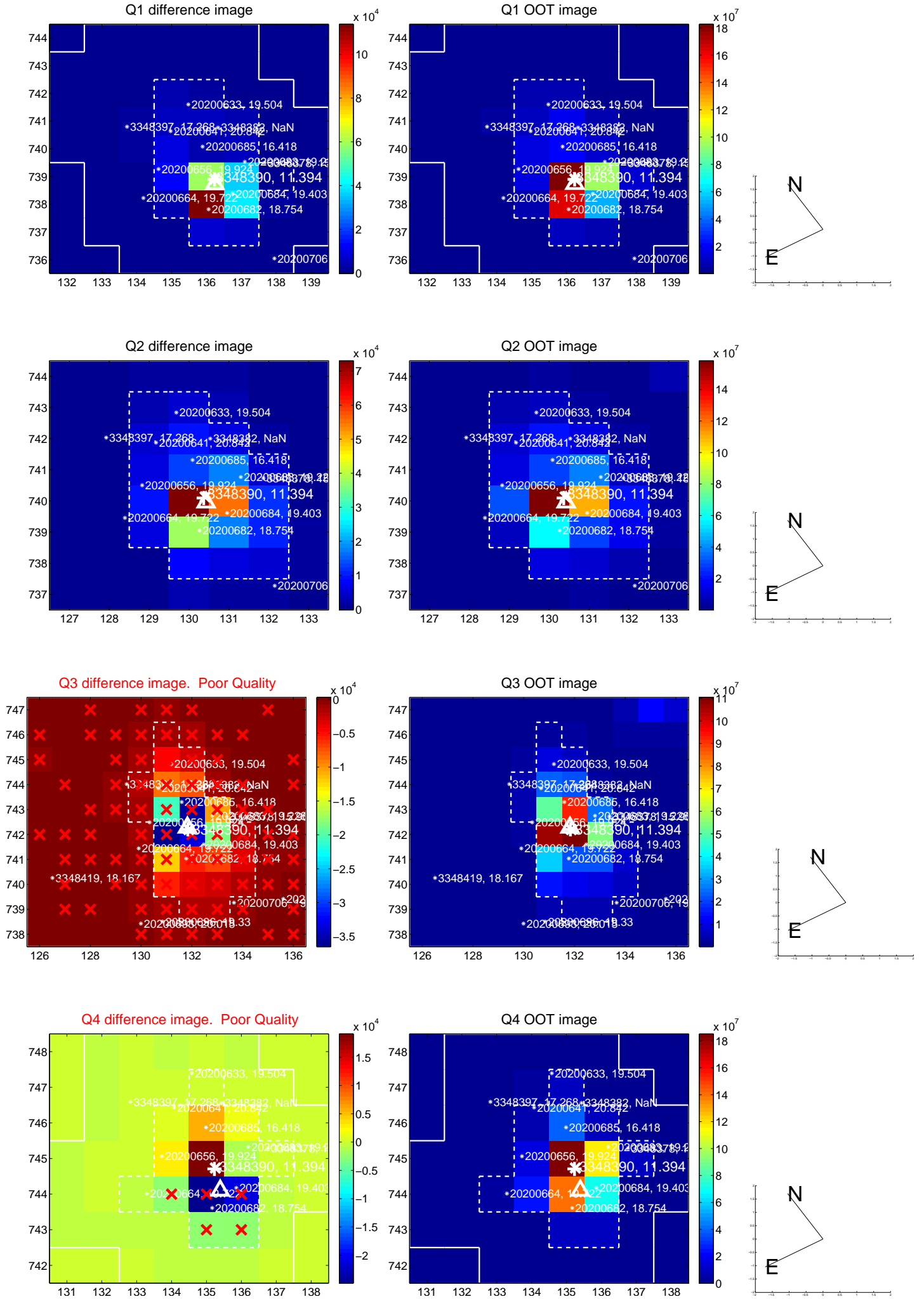
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.049 ± 0.176	0.28	0.014 ± 0.090	0.047 ± 0.197
PRF-fit source offset from KIC position	0.170 ± 0.086	1.99	0.162 ± 0.081	0.052 ± 0.121
photometric centroid source offset	0.18 ± 0.26	0.70	-0.09 ± 0.28	-0.16 ± 0.26

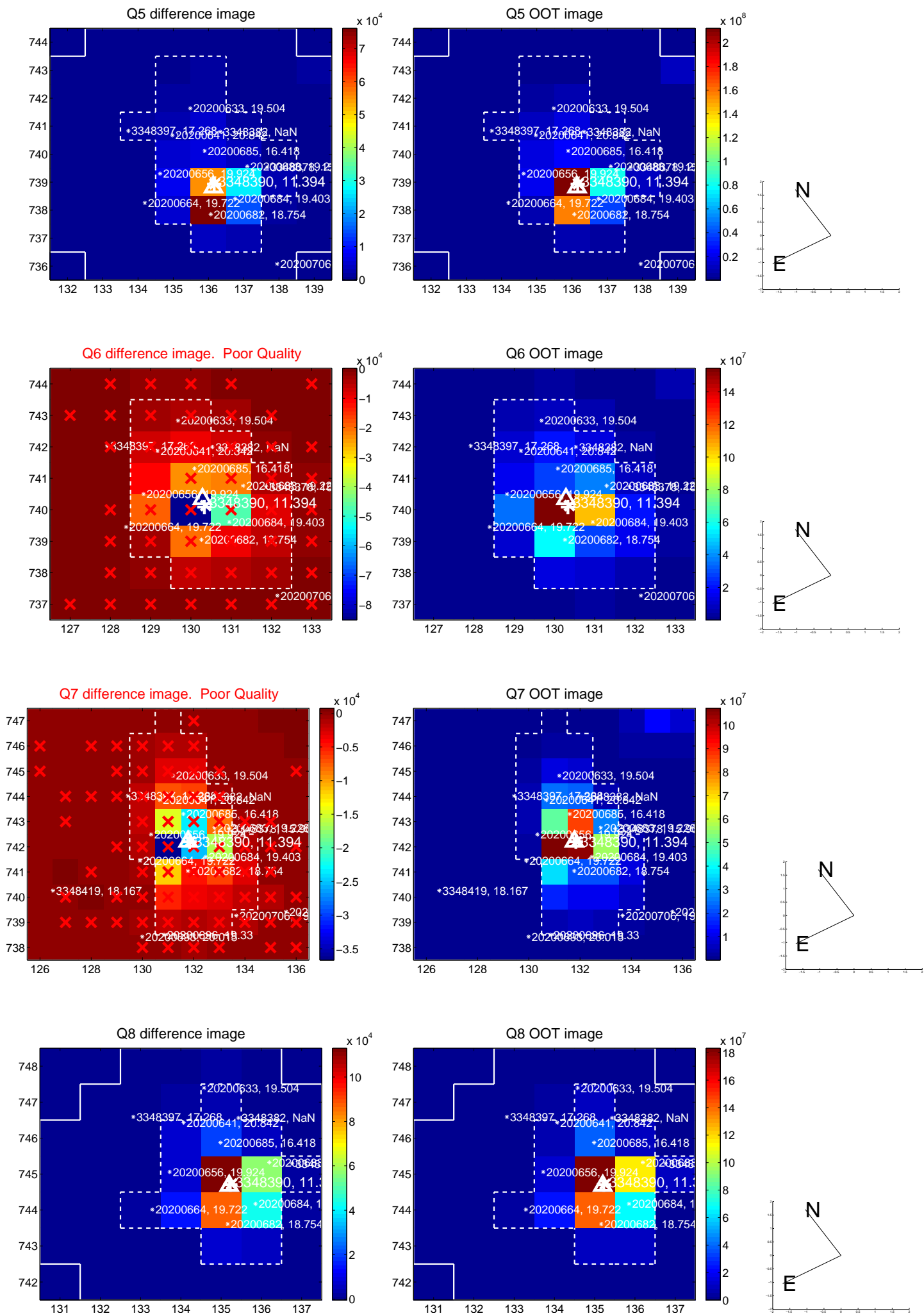


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

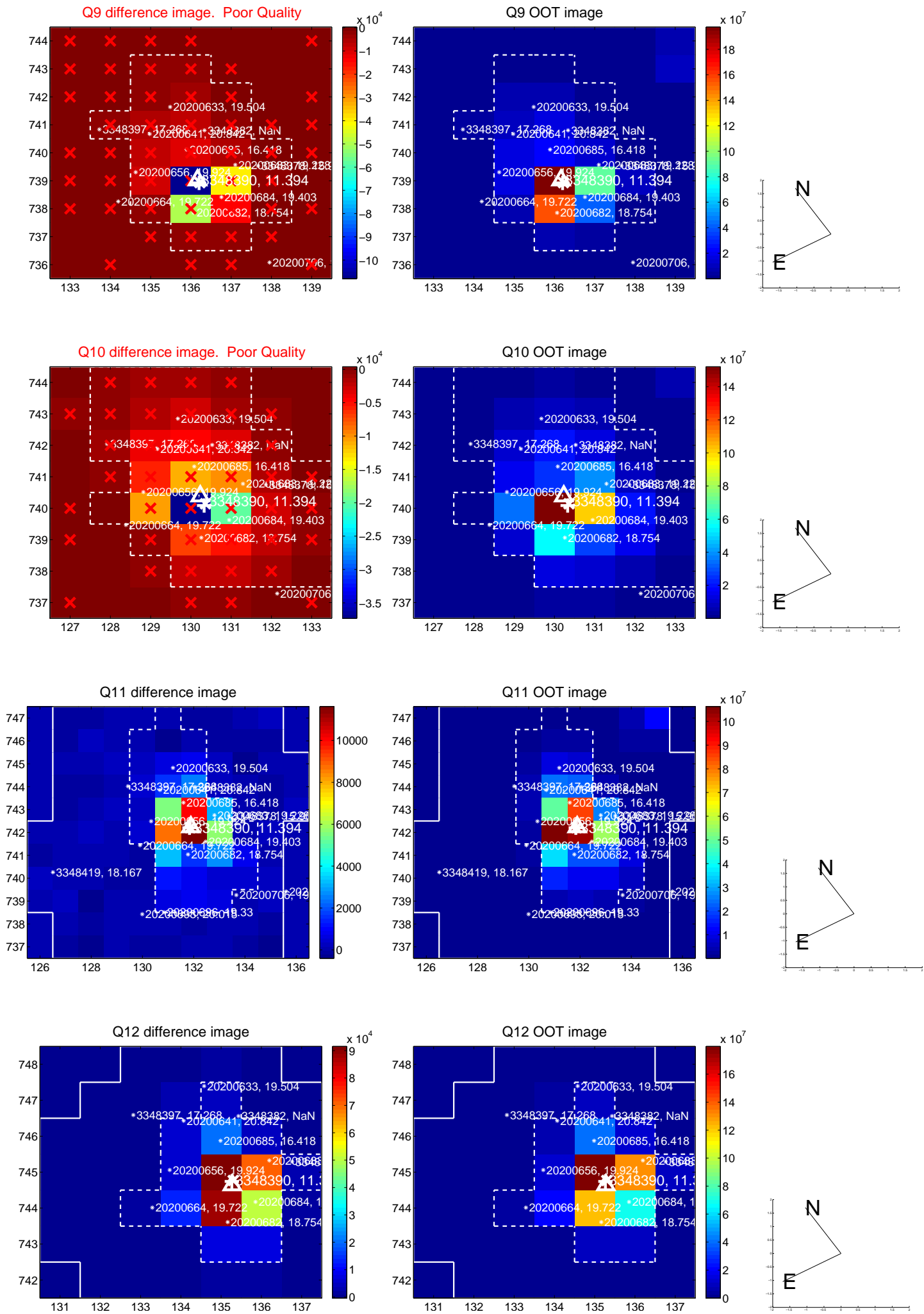
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



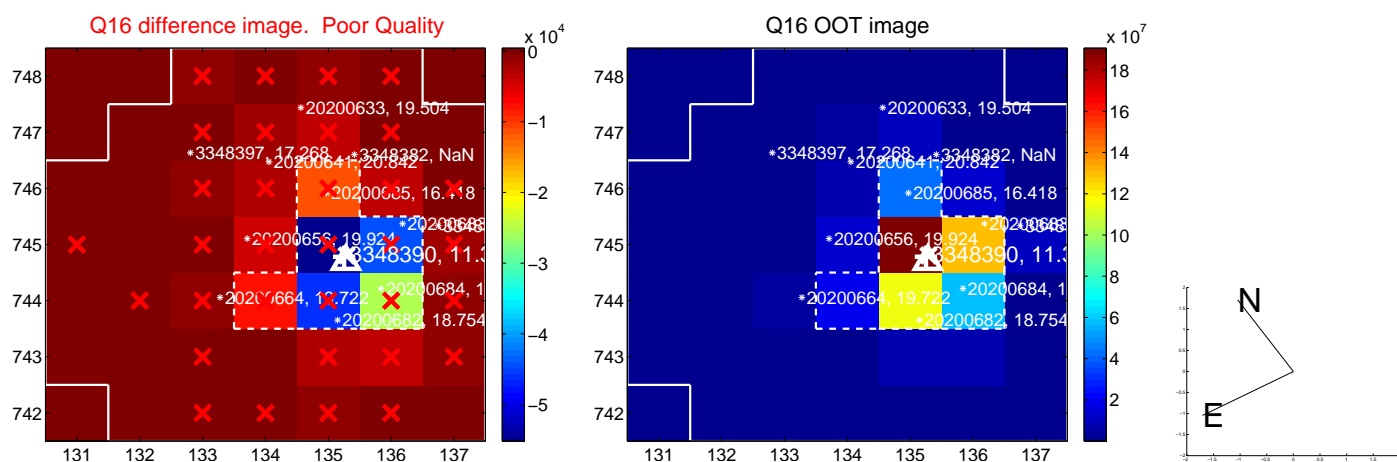
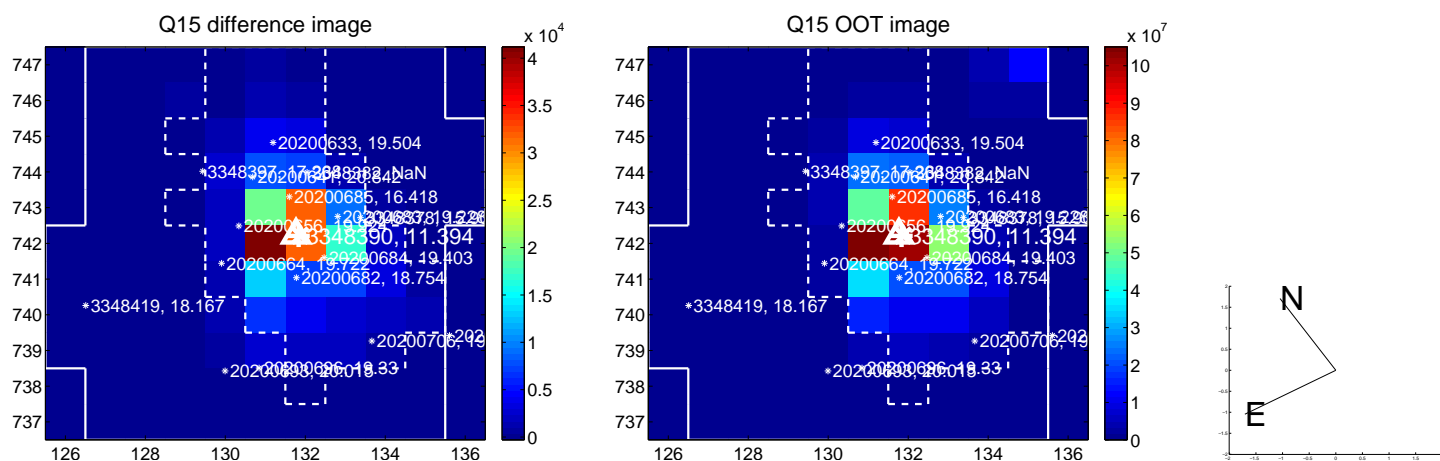
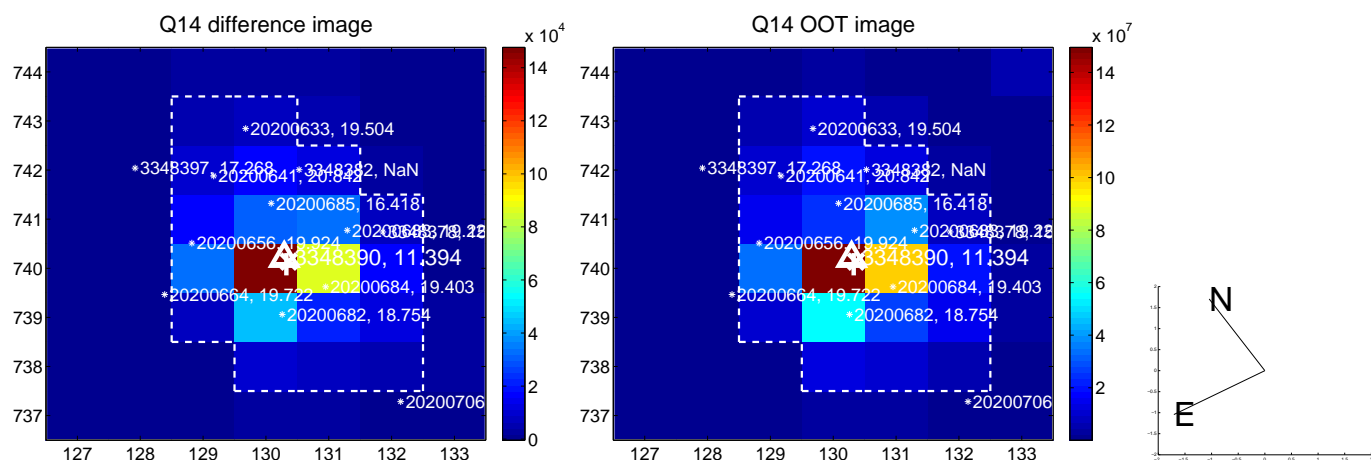
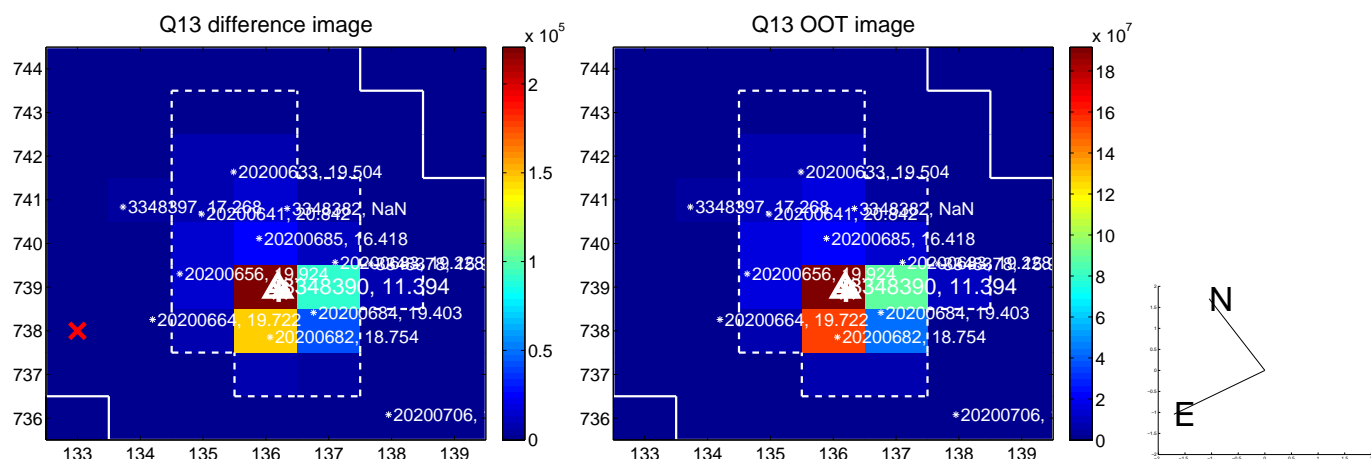
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



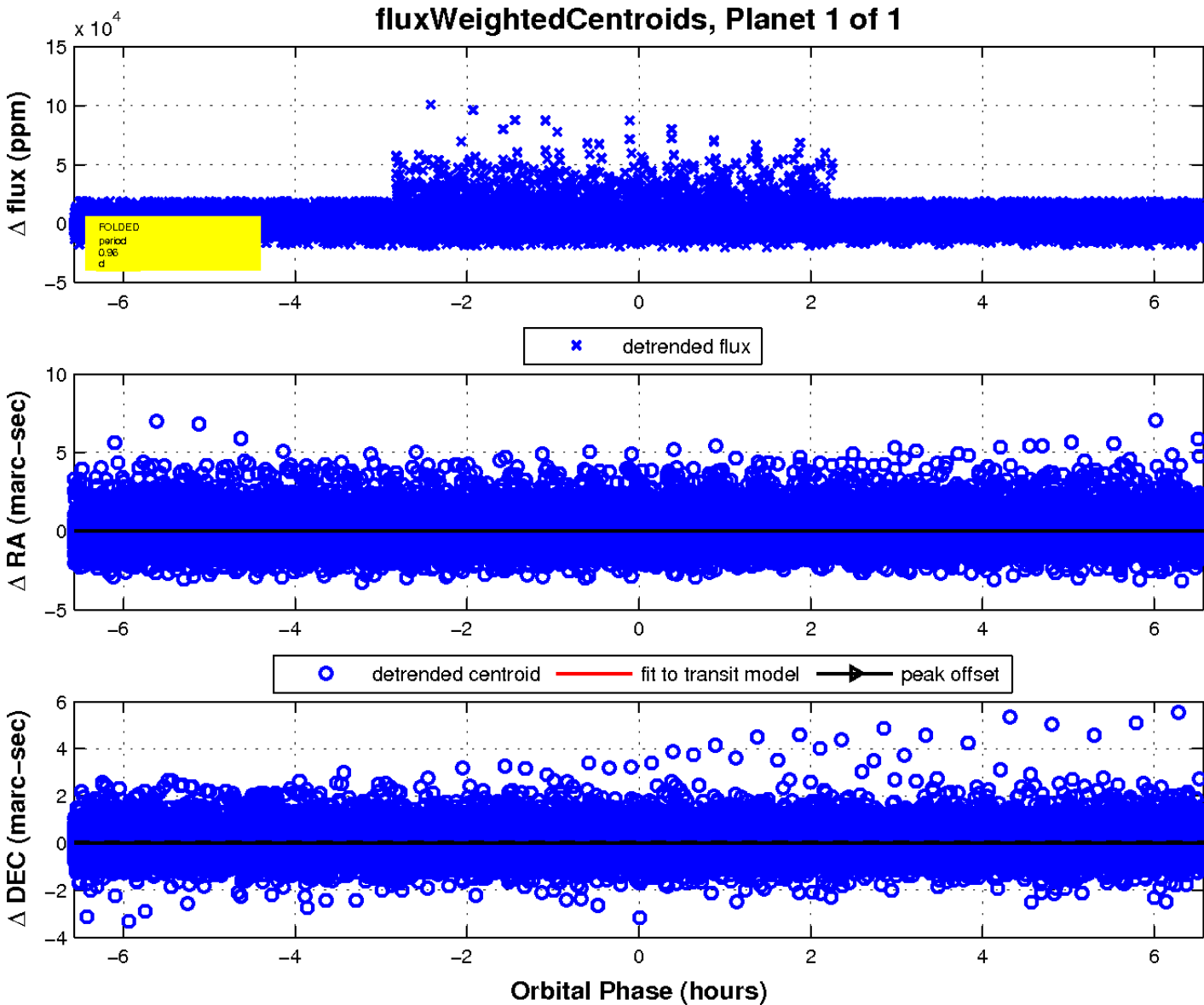
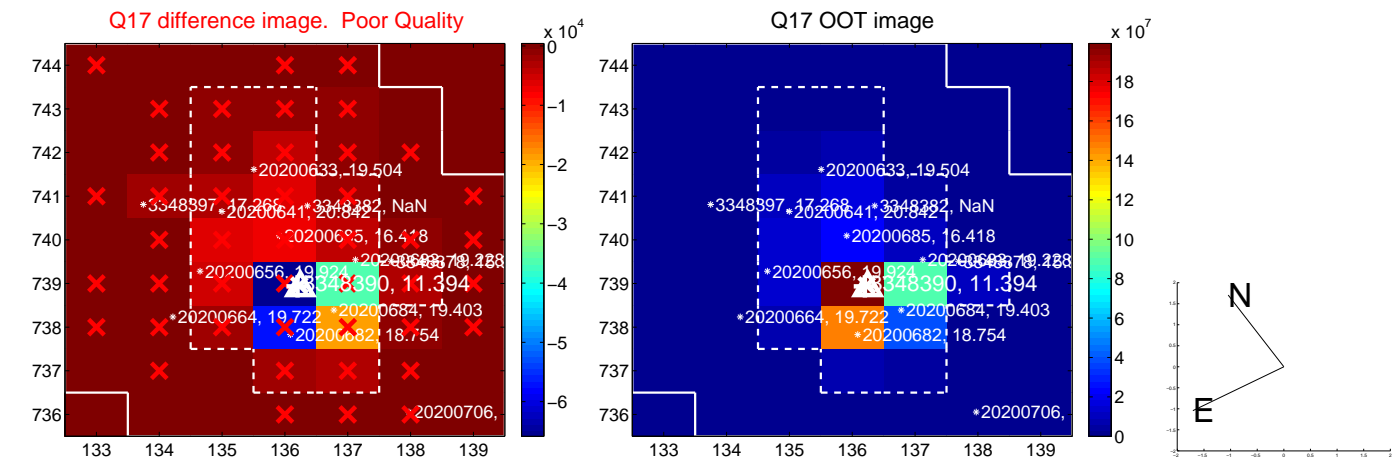
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

