

KIC 006048255

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})
006048255-01	OBS	6656.01	0.576322	132.053984	0.0	6.284	8.5	0.0	1.59	7285	0.00	27487.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006048255-01	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.

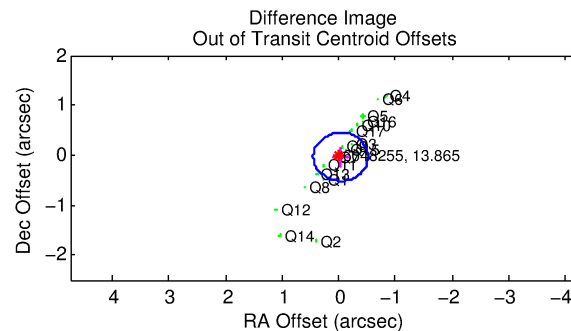
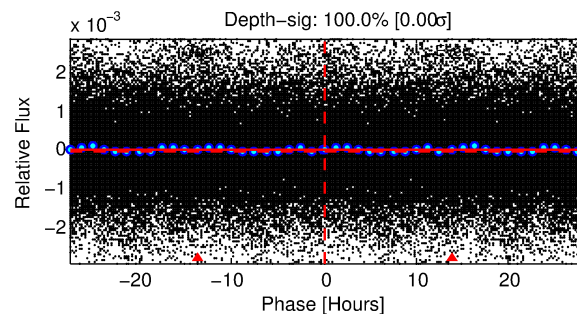
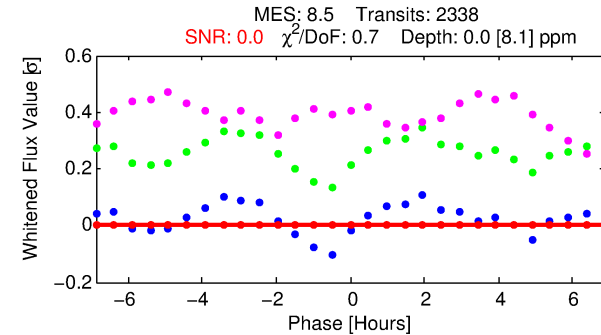
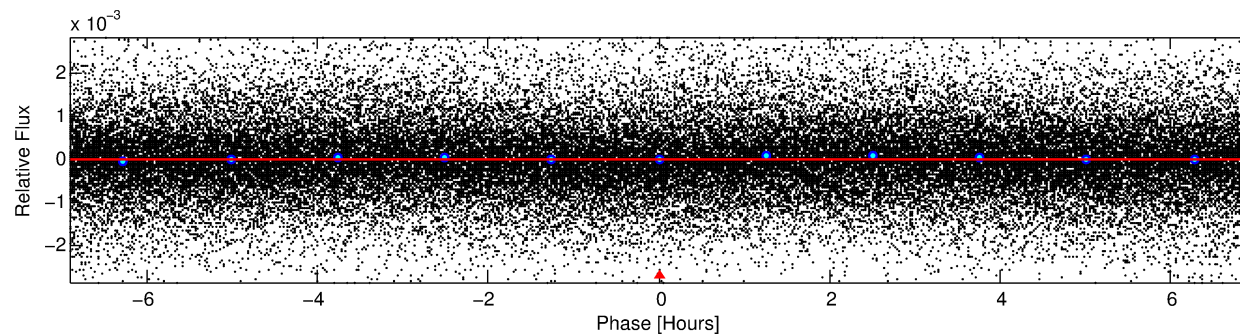
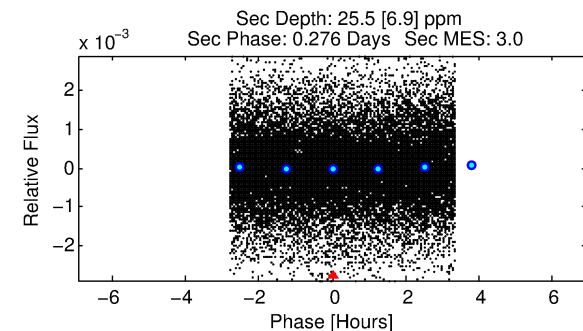
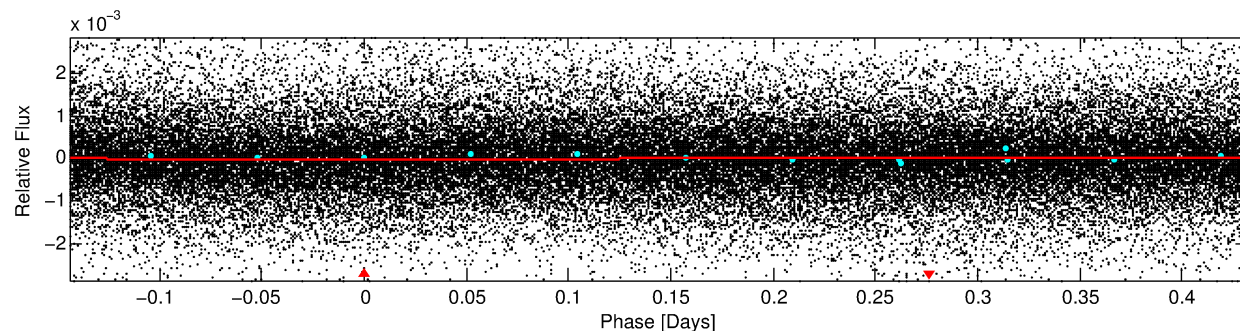
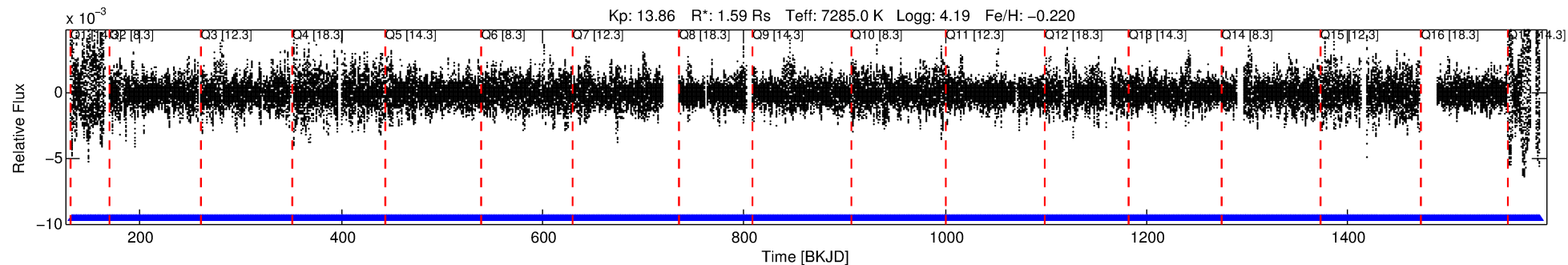
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006048255-01

No Significant Match Found

DV One-Page Summary

KIC: 6048255 Candidate: 1 of 1 Period: 0.576 d
KOI: K06656.01 Corr: 0.779



DV Fit Results:

Period = 0.57632 [7.78743] d
Epoch = 132.0540 [1199.4639] BKJD
Rp/R* = 0.0000 [0.7692]
a/R* = 1.00 [2596.94]
b = 0.87 [142330.34]
Seff = 27487.89 [495351.93]
Teq = 3283 [14792] K
Rp = 0.00 [133.37] Re
a = 0.0152 [0.1372] AU
Ag = 1162205.08 [185269639726.41] [0.00σ]
Teffp = 166676 [6642821789] K [0.00σ]

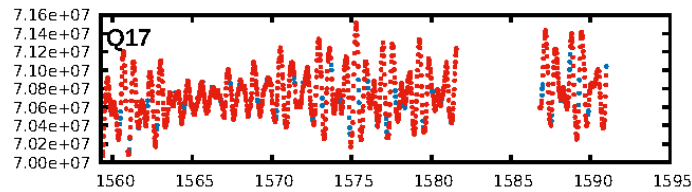
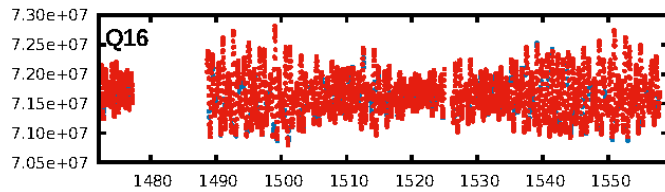
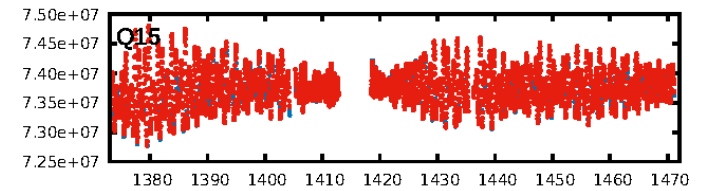
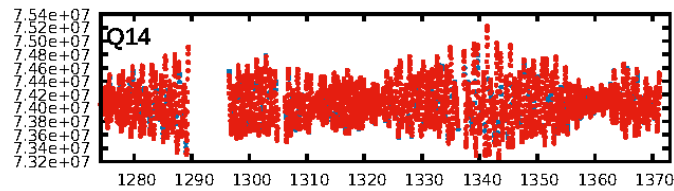
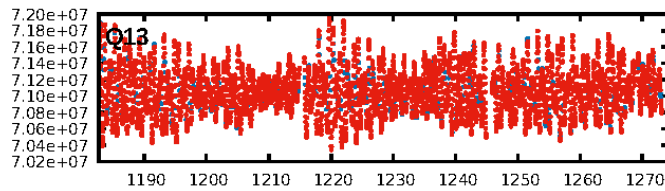
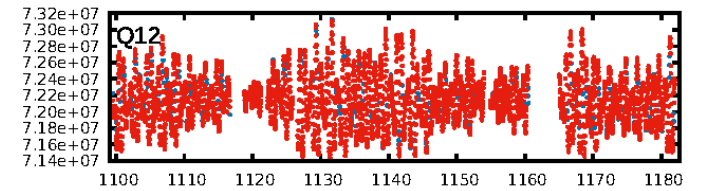
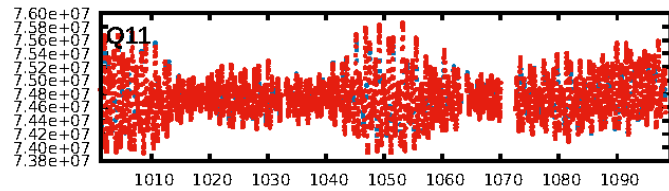
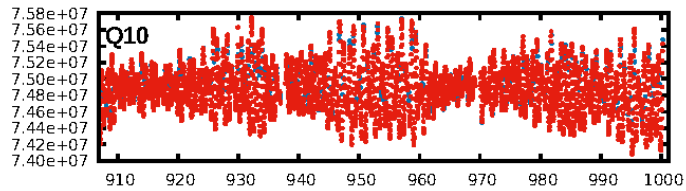
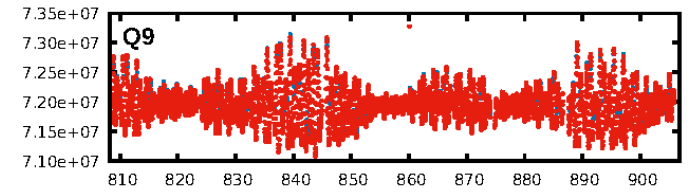
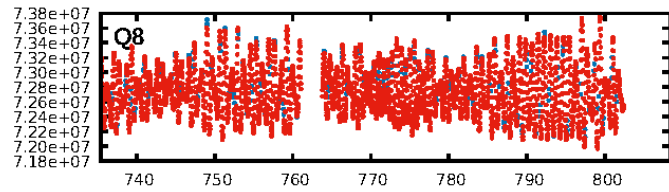
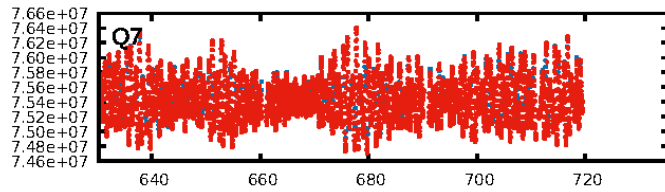
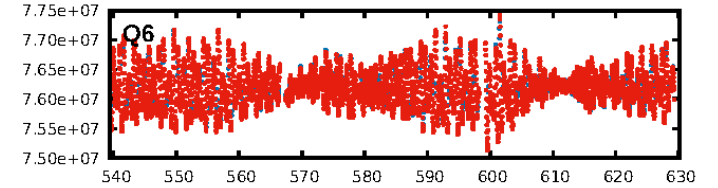
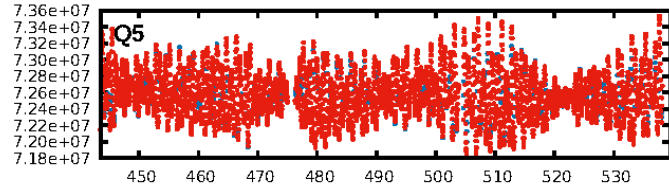
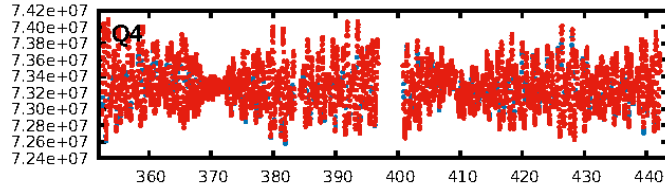
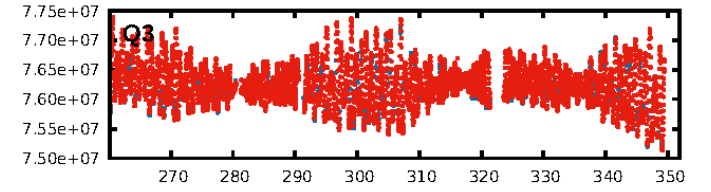
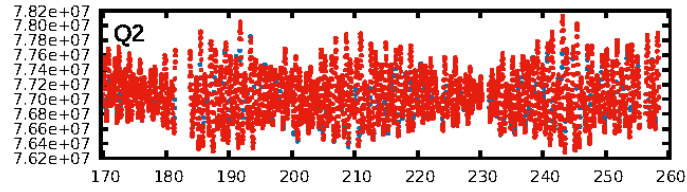
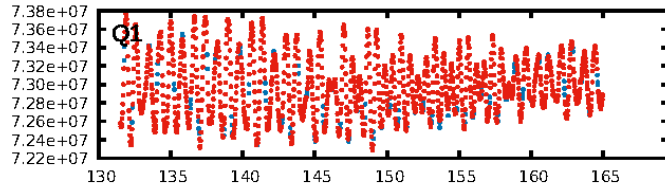
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2233/2233]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
QotOffset-rm: 0.045 arcsec [0.28σ]
QotOffset-rm: 0.151 arcsec [0.83σ]
QotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.47 [8/17]
DiffImageOverlap-fno: 1.00 [17/17]

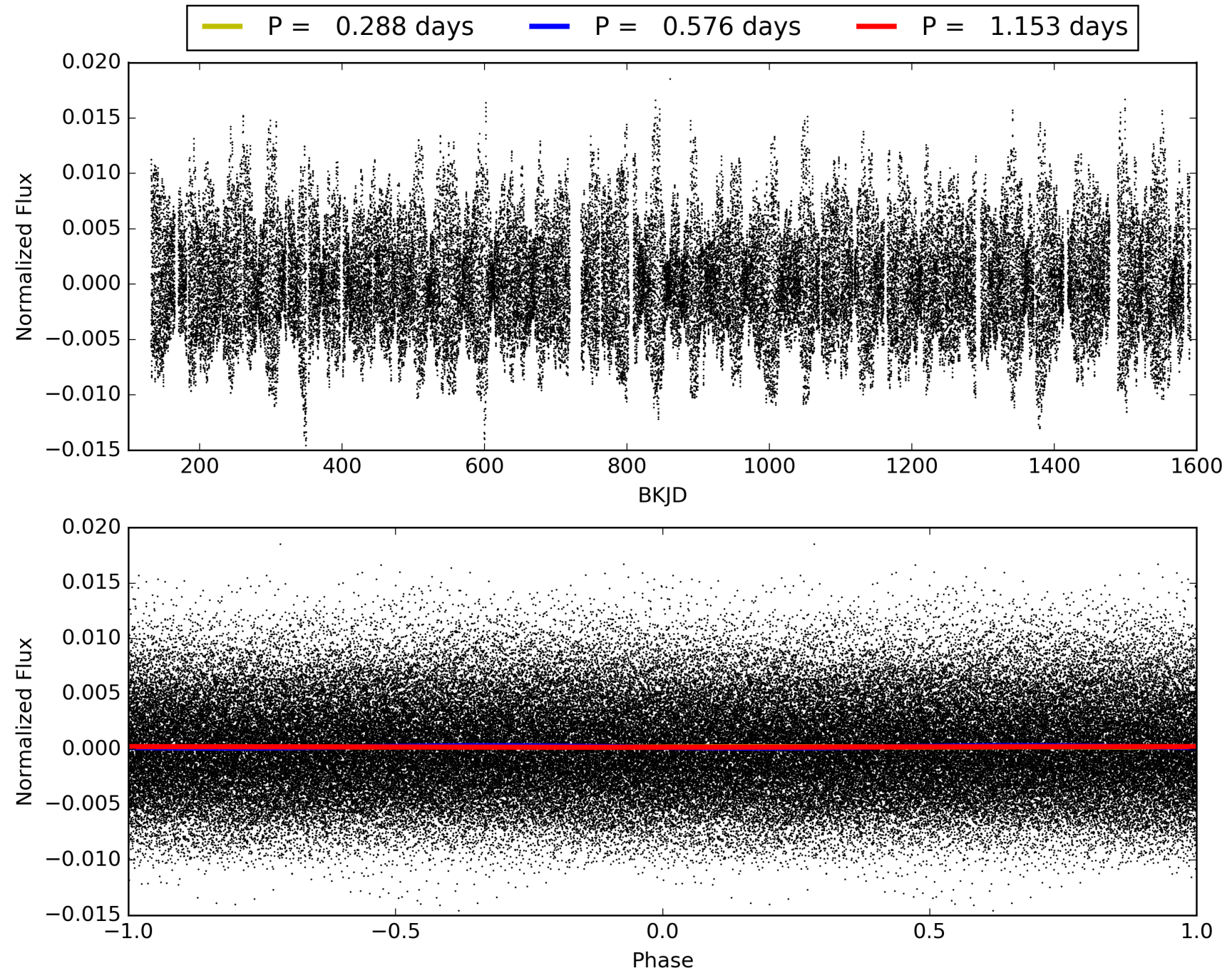
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:06:22 Z

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

TCE 006048255-01, PDC Light Curves

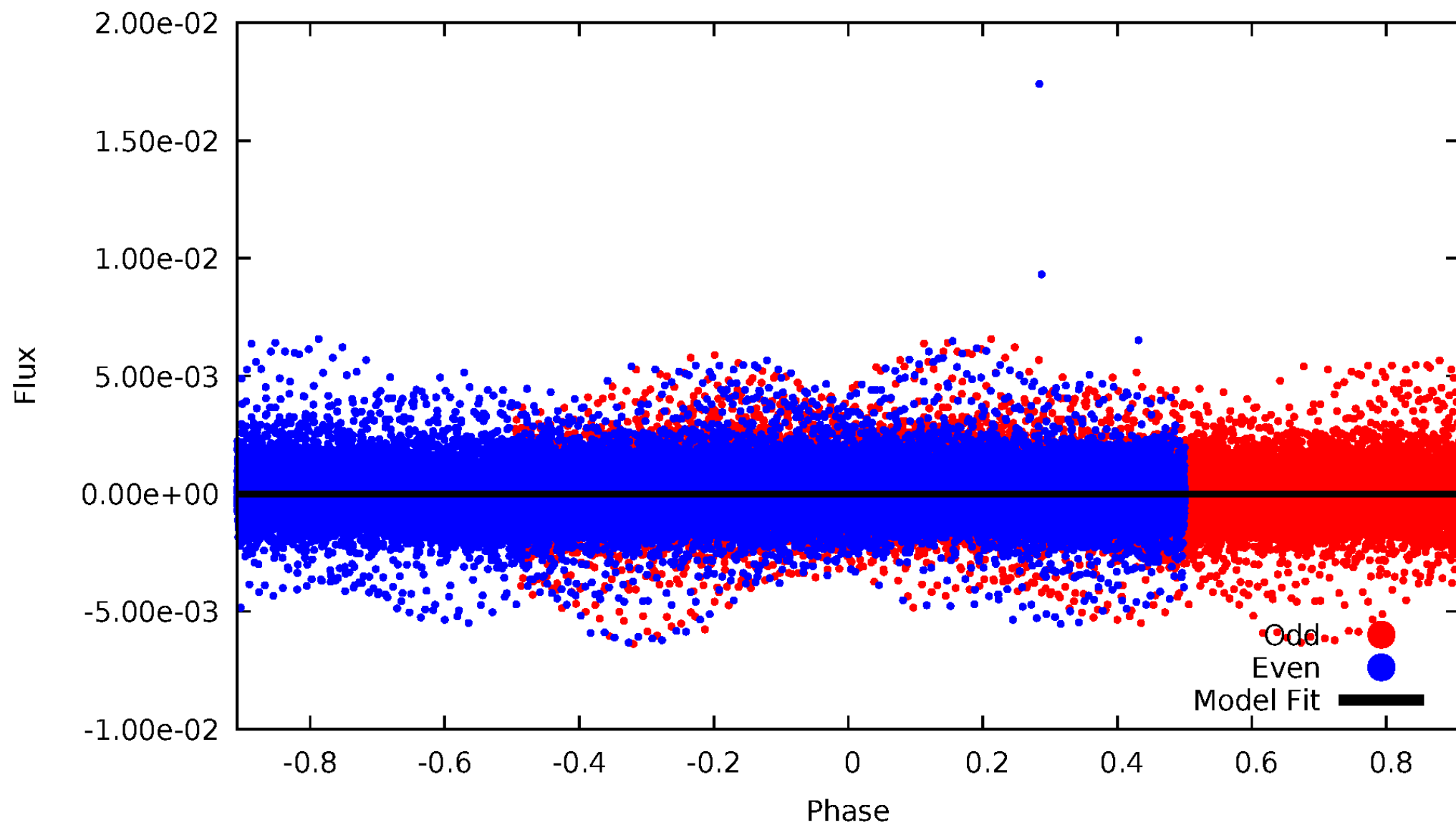


TCE 006048255-01



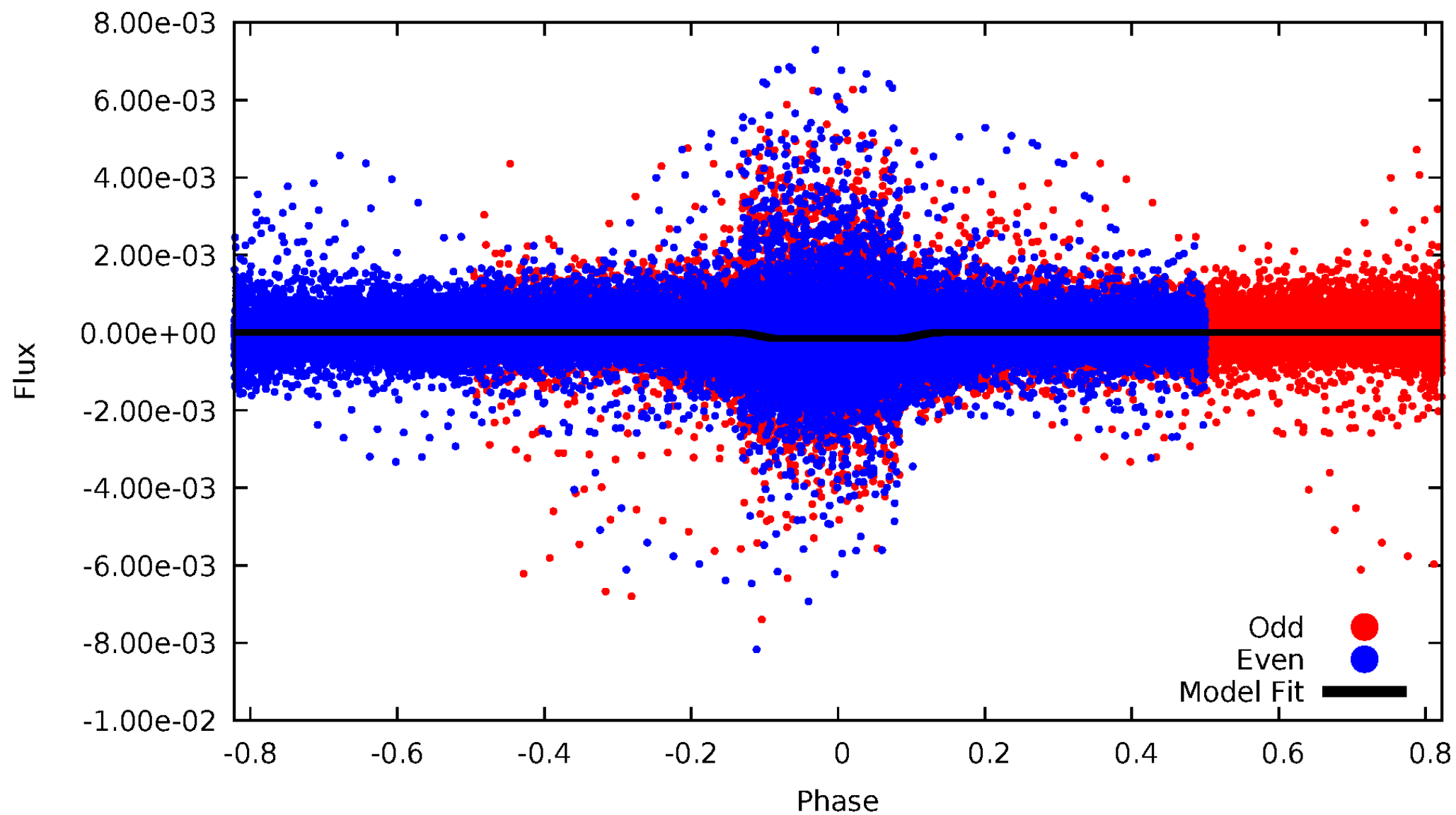
DV Odd/Even

TCE 006048255-01



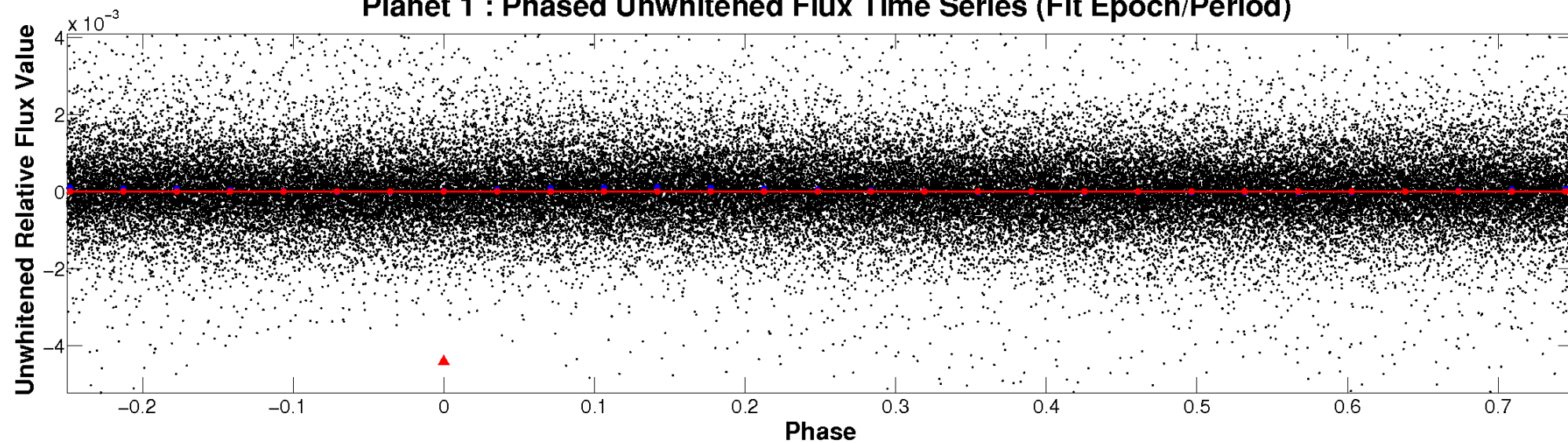
ALT Odd/Even

TCE 006048255-01

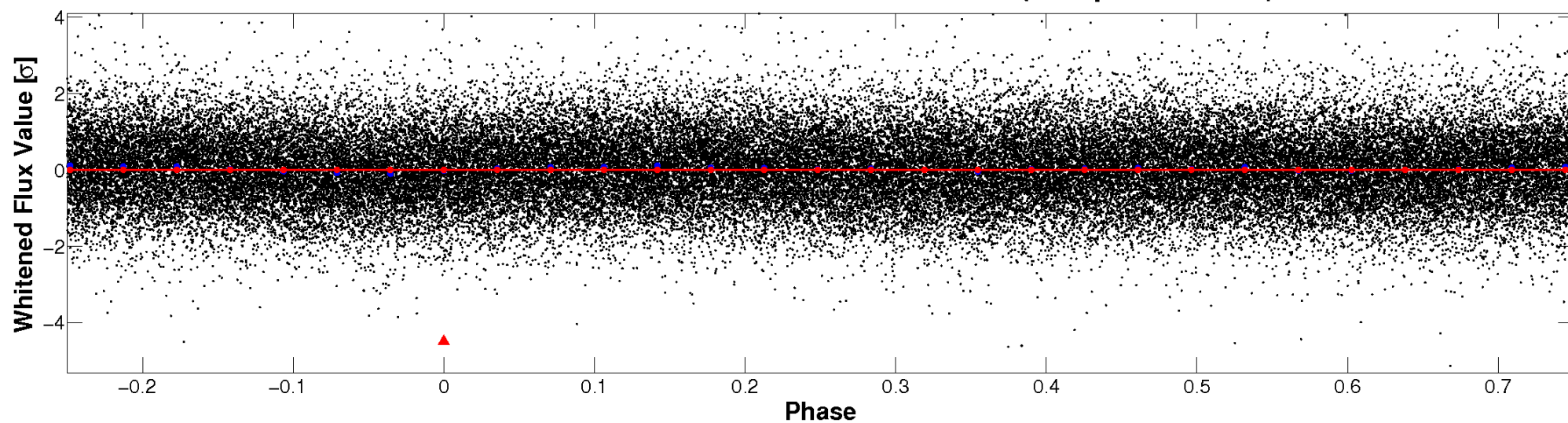


Non-Whitened Vs. Whitened Light Curve

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

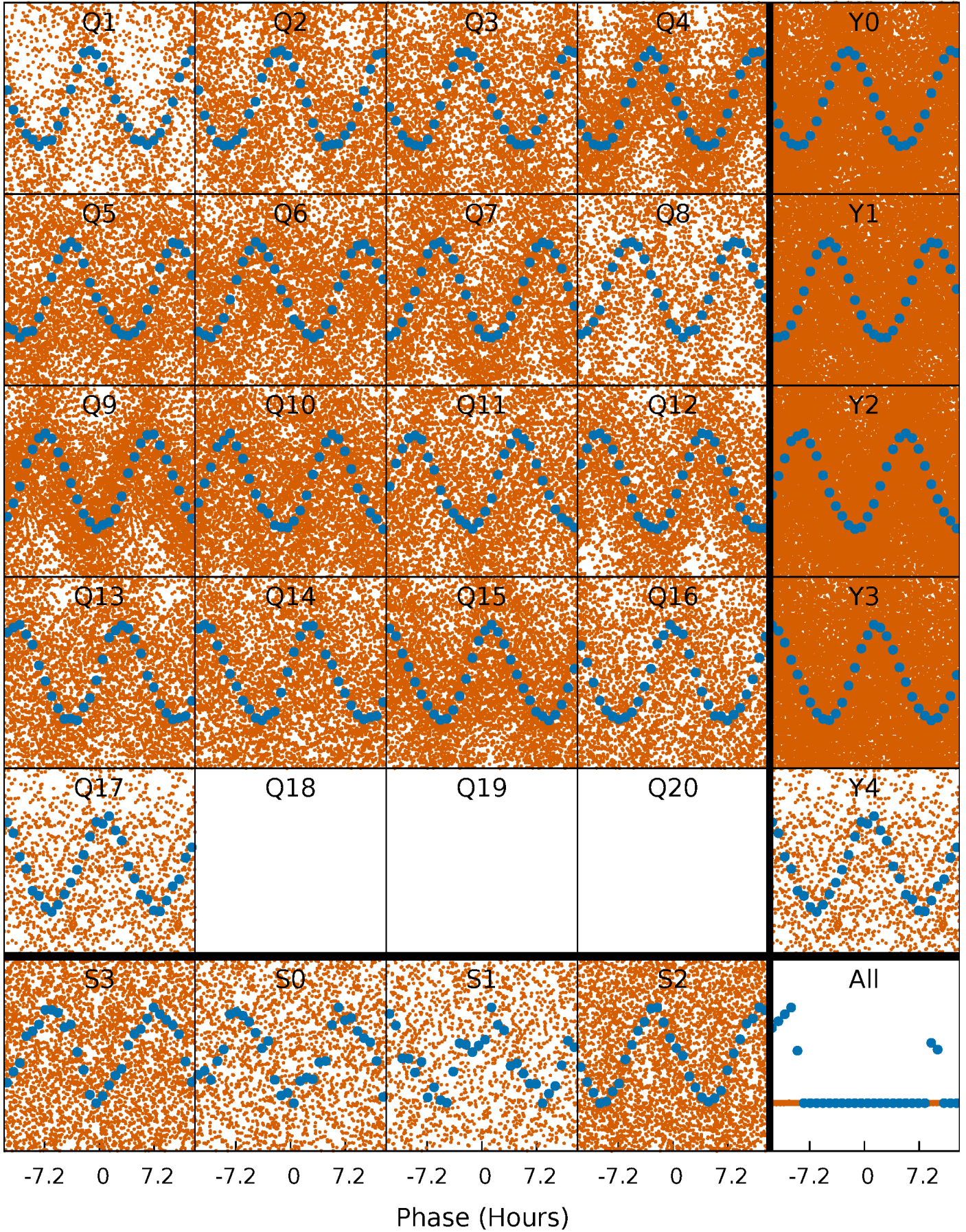


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



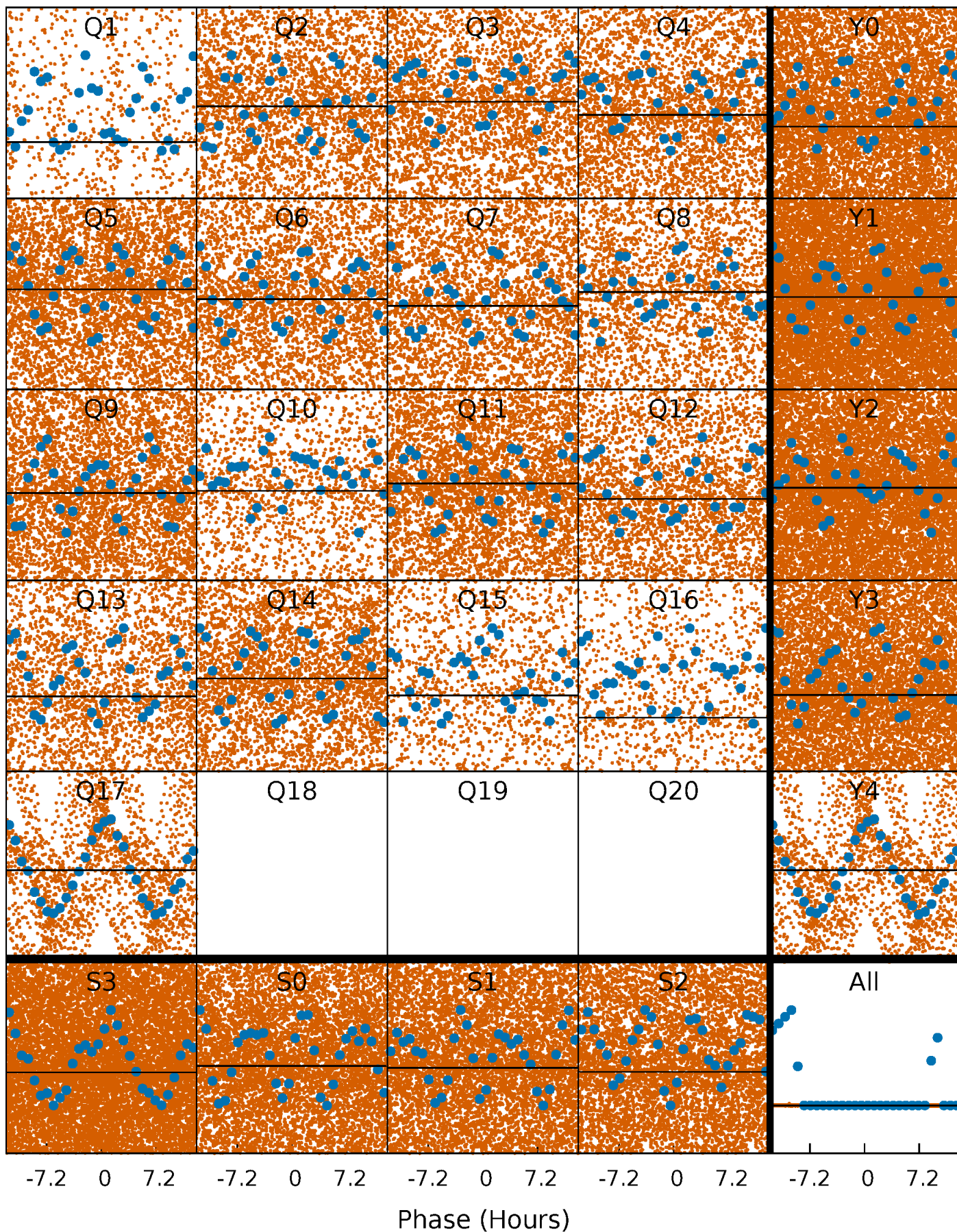
PDC Quarter-Phased Transit Curves

TCE 006048255-01 P= 0.576322 Days $T_0=132.053984$ (BKJD)



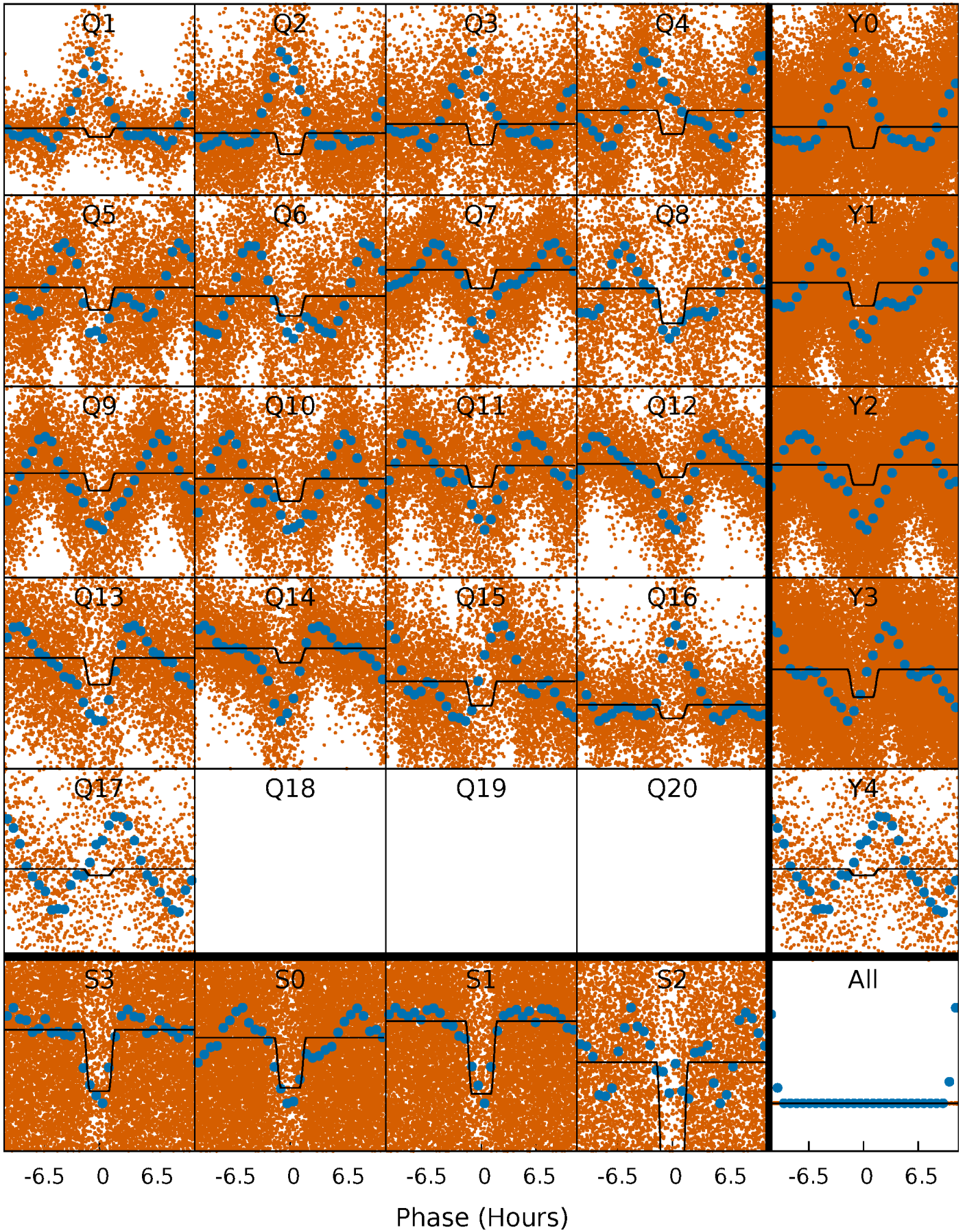
DV Quarter-Phased Transit Curves

TCE 006048255-01 P= 0.576322 Days $T_0=132.053984$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

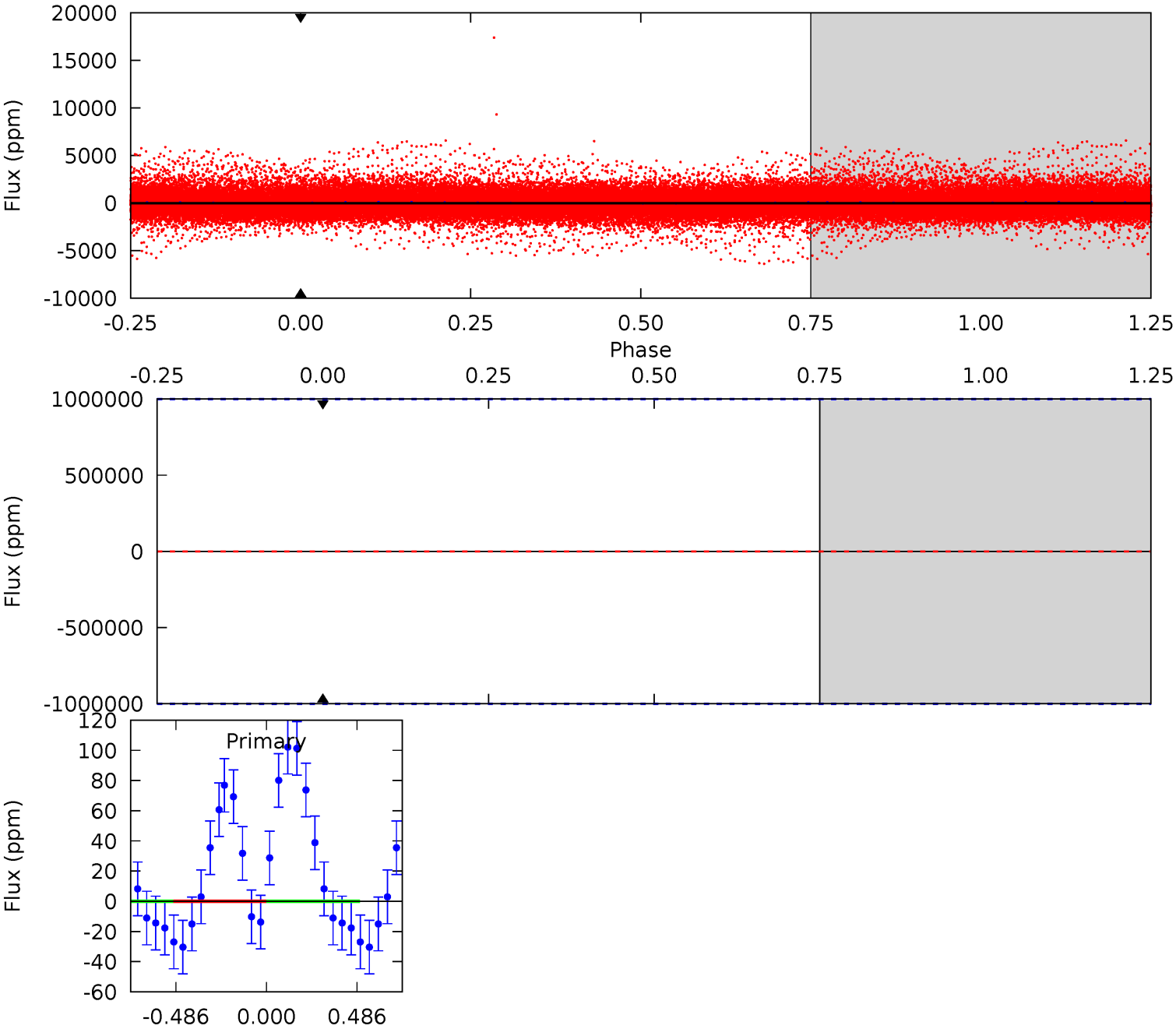
TCE 006048255-01 P= 0.576295 Days $T_0=132.057902$ (BKJD)



DV Model-Shift Uniqueness Test

006048255-01, P = 0.576322 Days, E = 131.477662 Days

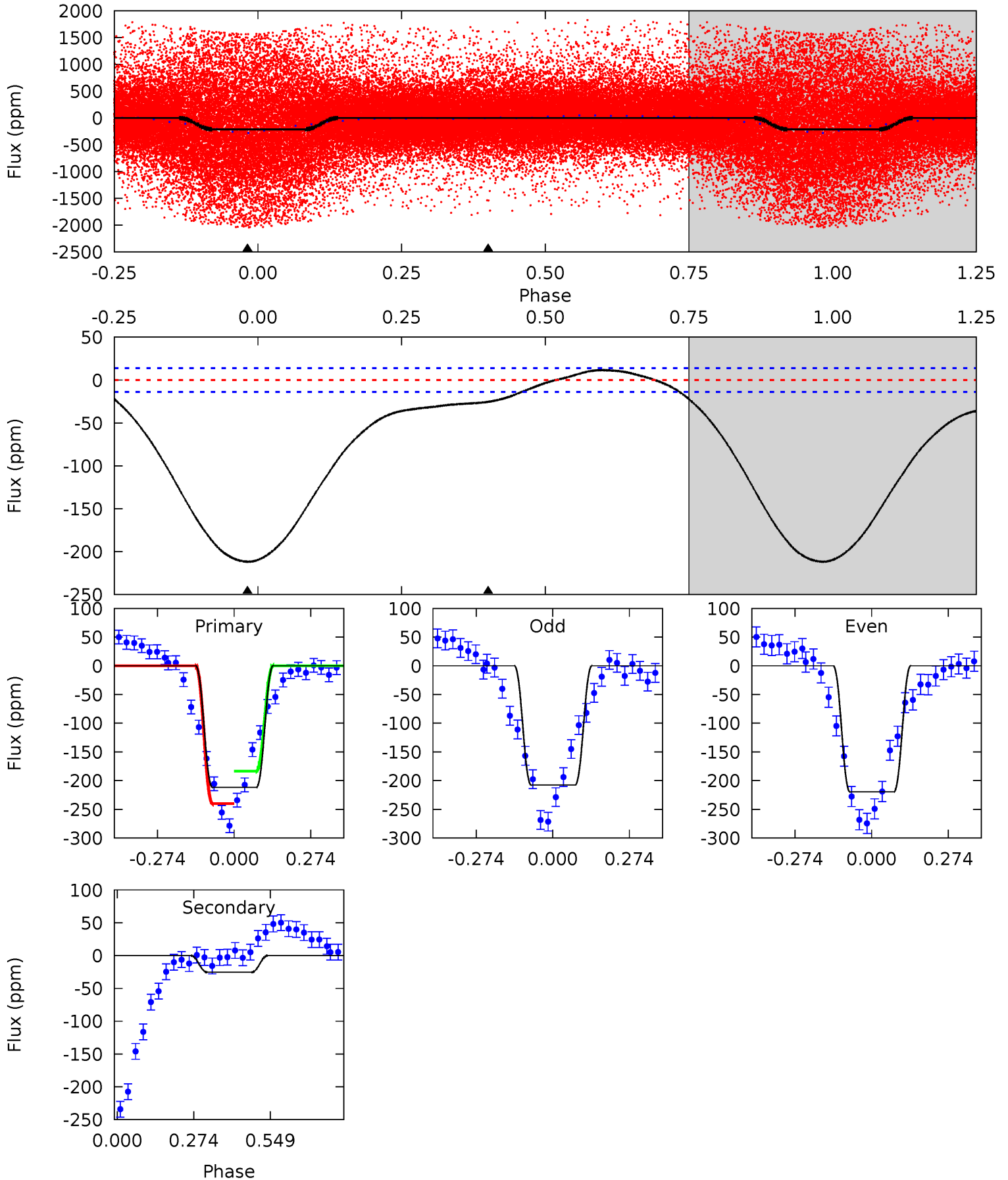
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006048255-01, P = 0.576295 Days, E = 131.481607 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
66.5	8.00	0	0	4.35	1.09	2.26	66.5	66.5	8.00	8.00	1.91	0.54	0.05	6.49



Stellar Parameters For KIC 006048255

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7285^{+228}_{-304}	$4.187^{+0.128}_{-0.192}$	$-0.220^{+0.250}_{-0.350}$	$1.589^{+0.491}_{-0.327}$	$1.419^{+0.219}_{-0.219}$	$0.498^{+0.354}_{-0.251}$
	+3%/-4%	+3%/-5%	+114%/-159%	+31%/-21%	+15%/-15%	+71%/-50%
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 006048255-01 / KOI 6656.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$98.45^{+96.16}_{-66.08}$	2219^{+1136}_{-529}	-2782^{+9283}_{-3150}	$0.128^{+51.242}_{-30.837}$
Alt.	-25 ± 3	$93.42^{+105.97}_{-65.75}$	2234^{+1086}_{-521}	-2558^{+378}_{-684}	$0.007^{+0.080}_{-0.006}$

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

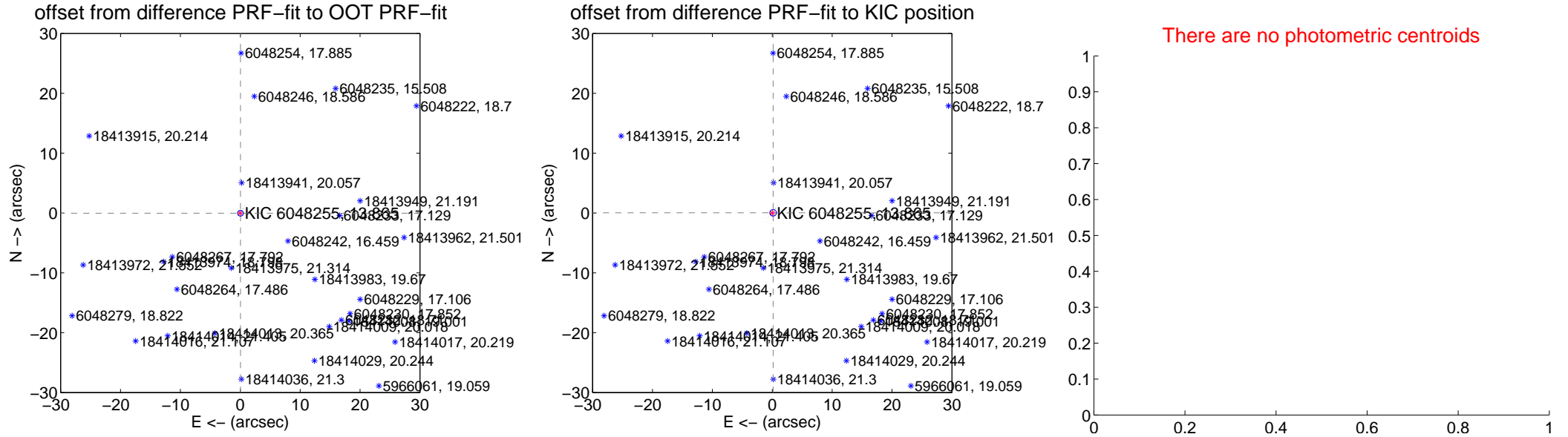
DV Centroid Data

Supplemental centroid analysis for 006048255-01. Kepler magnitude: 13.87. Transit SNR 0.00

There are 8 quarters with good PRF difference image offsets

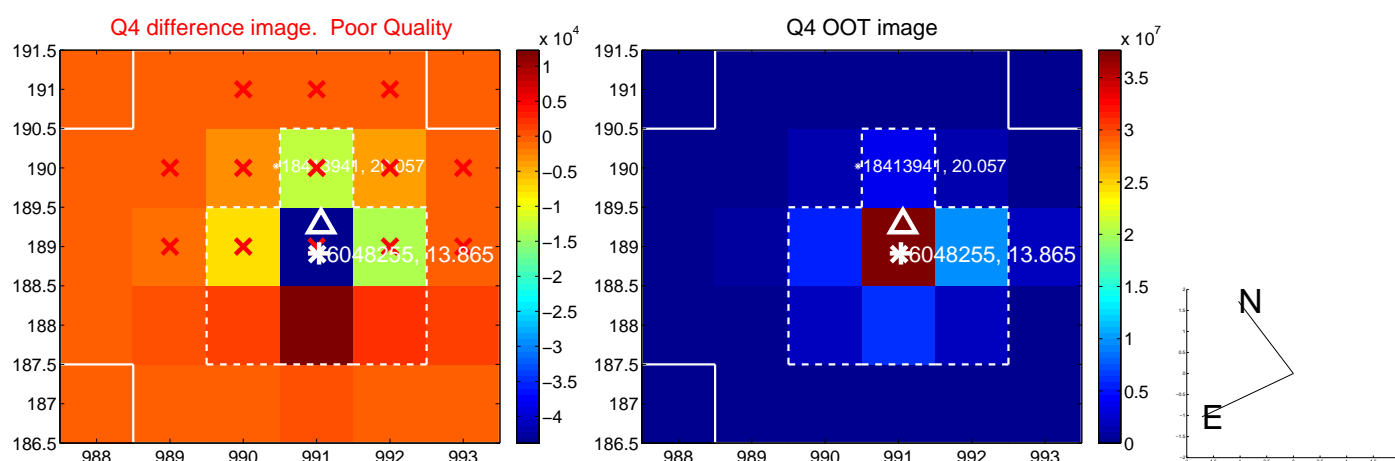
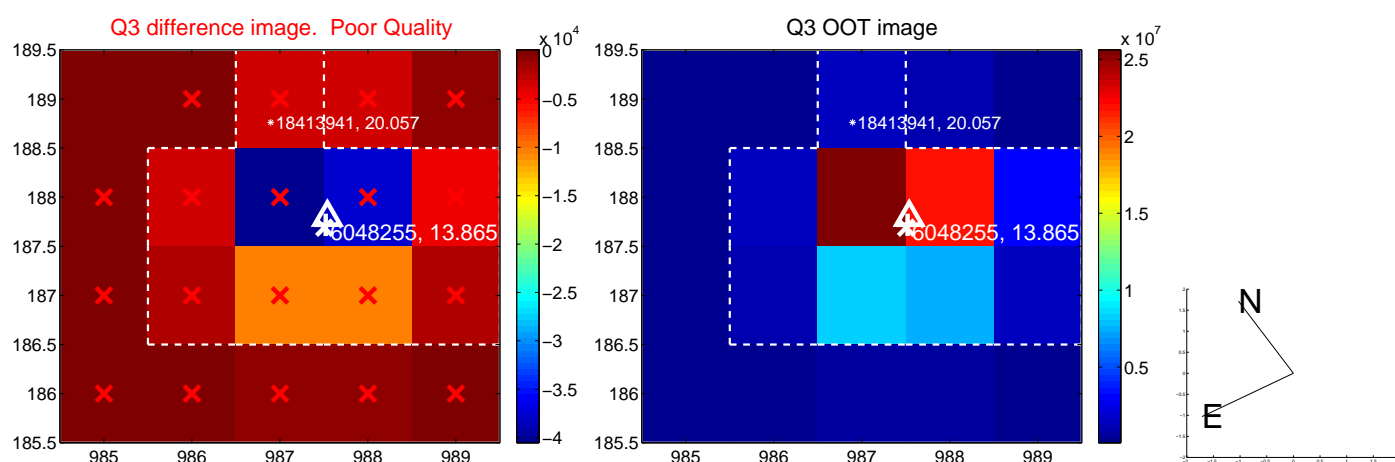
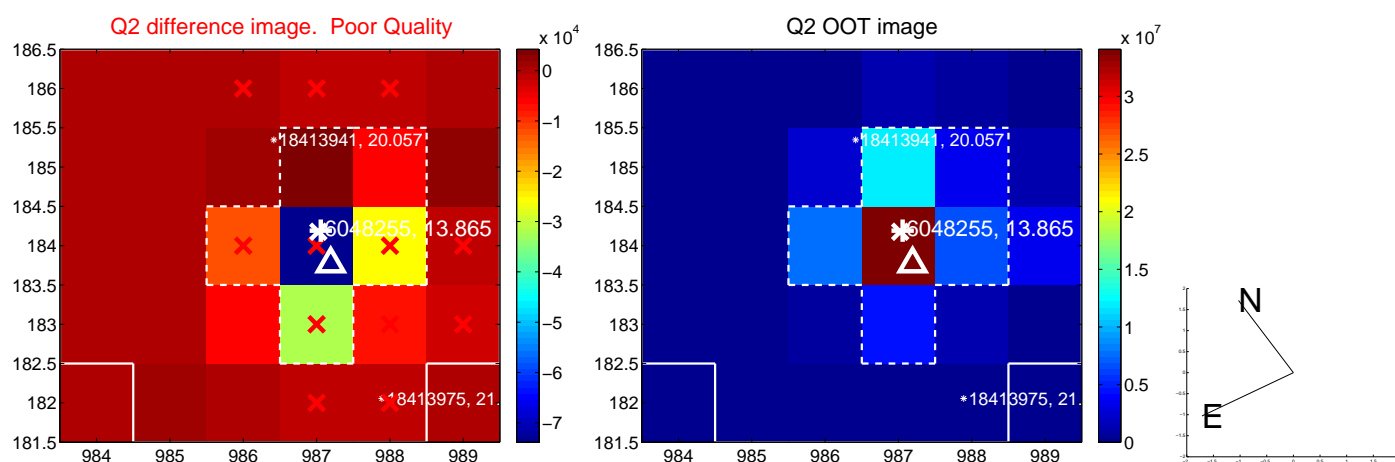
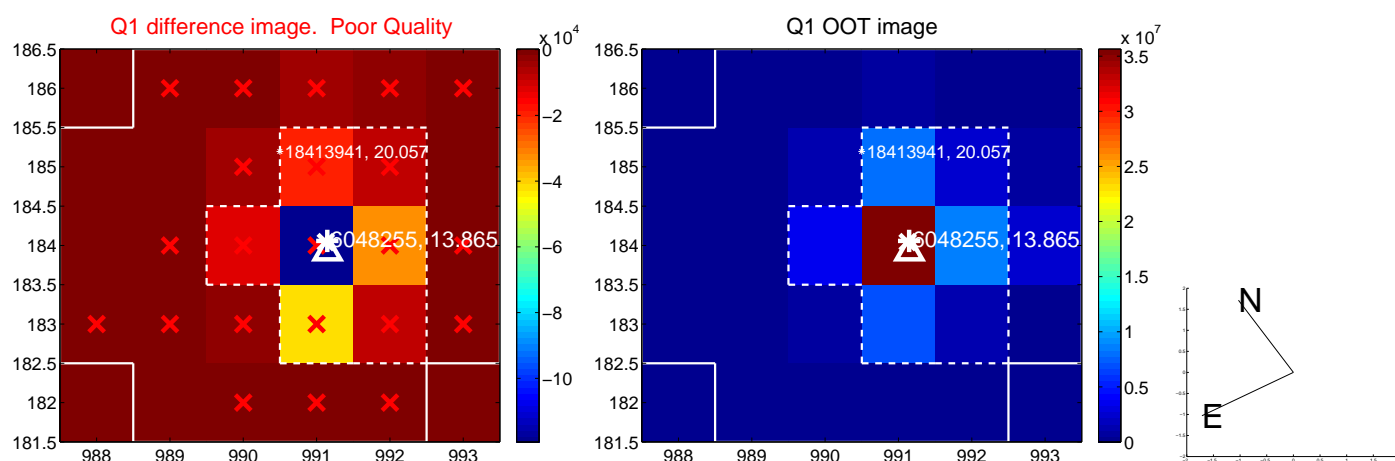
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.045 ± 0.161	0.28	-0.032 ± 0.121	-0.032 ± 0.193
PRF-fit source offset from KIC position	0.151 ± 0.183	0.83	-0.147 ± 0.147	0.037 ± 0.204
photometric centroid source offset	—	—	—	—

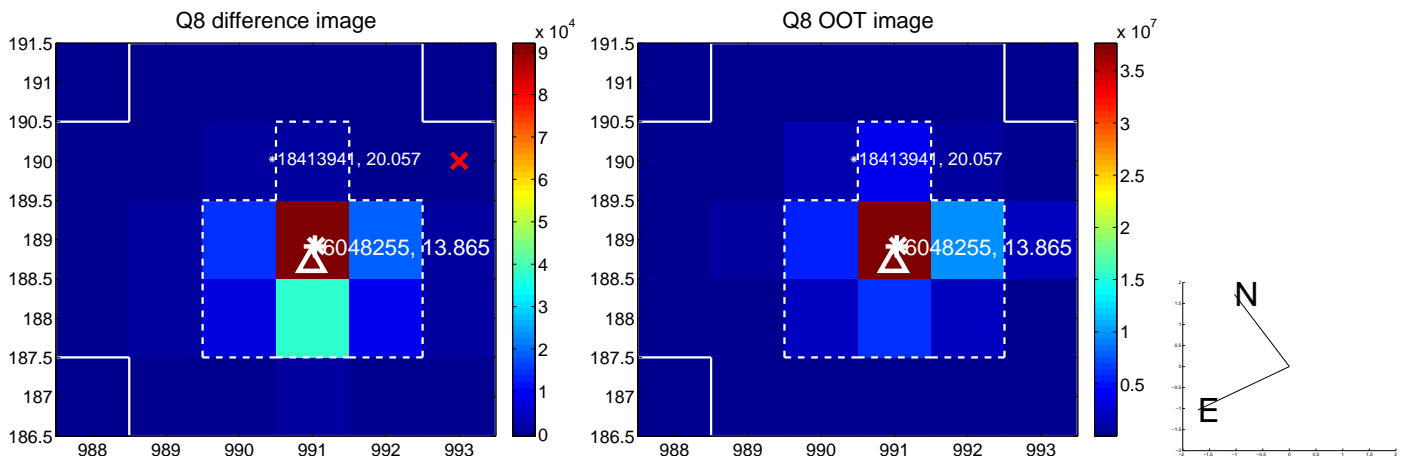
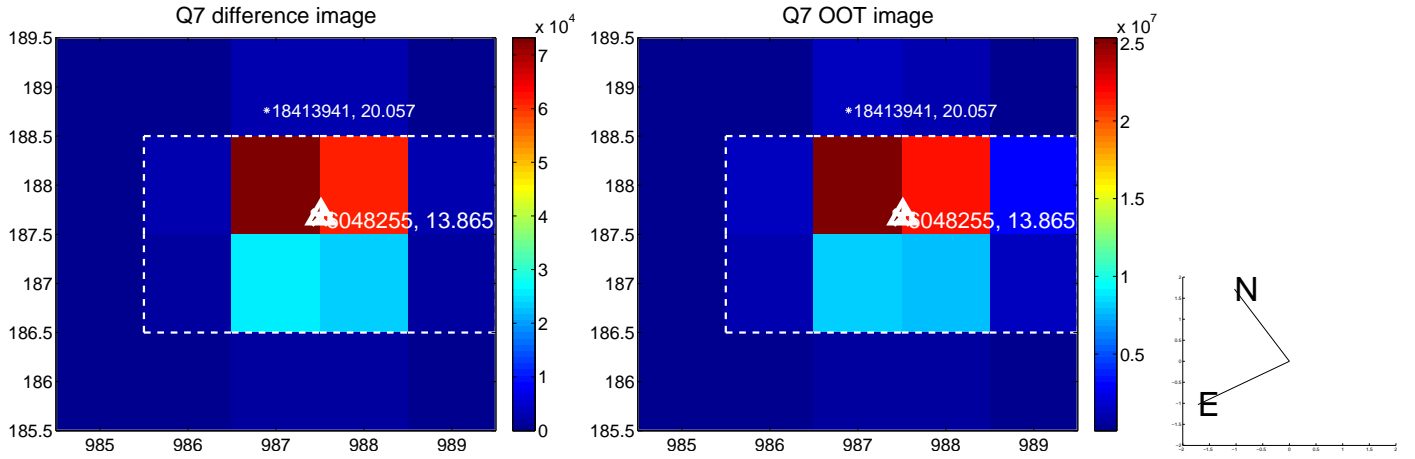
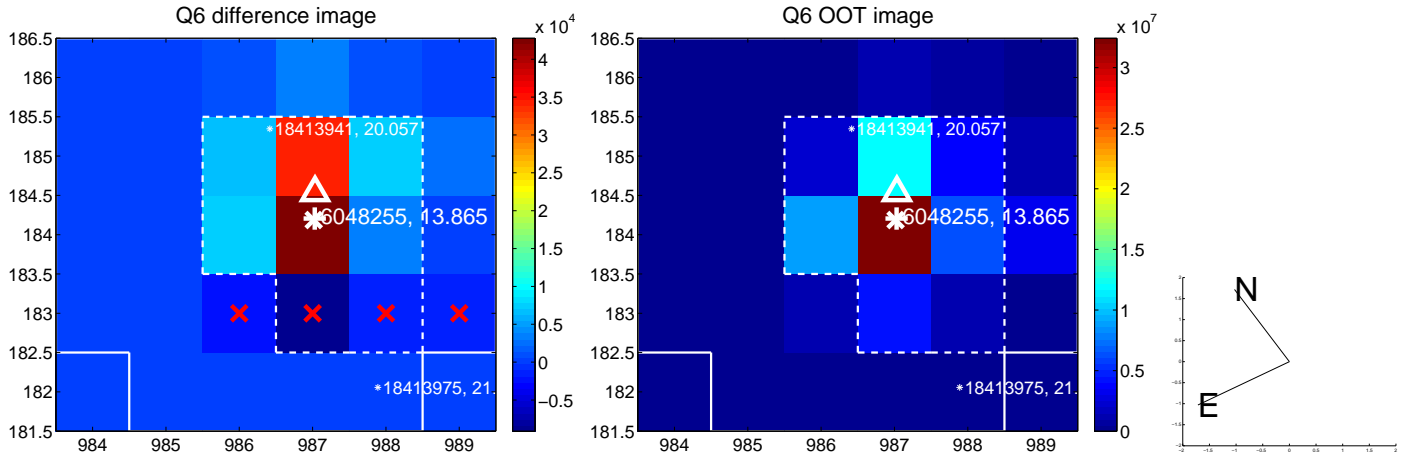
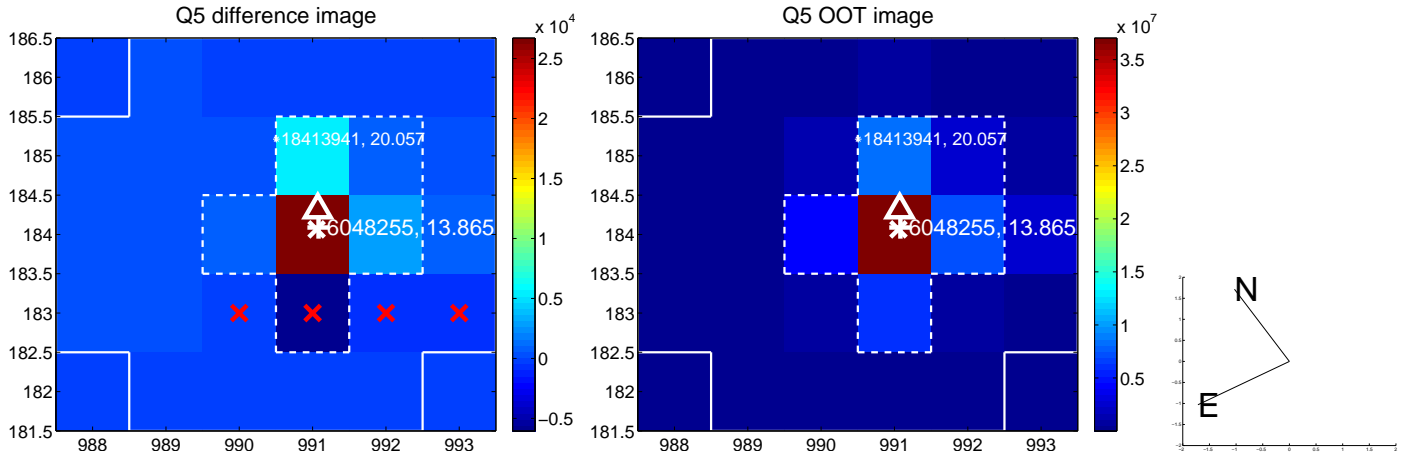


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

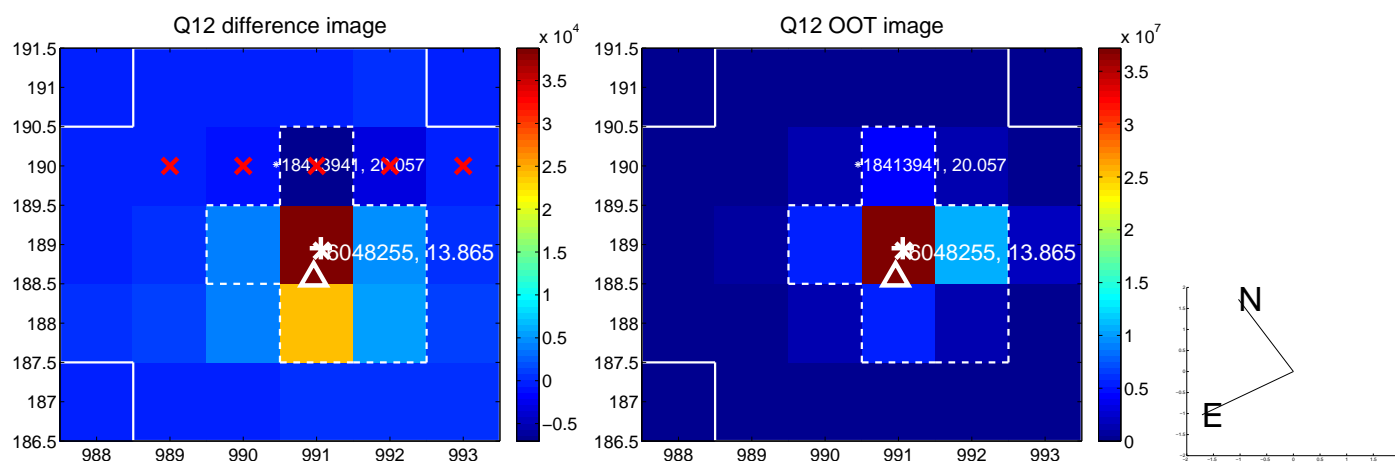
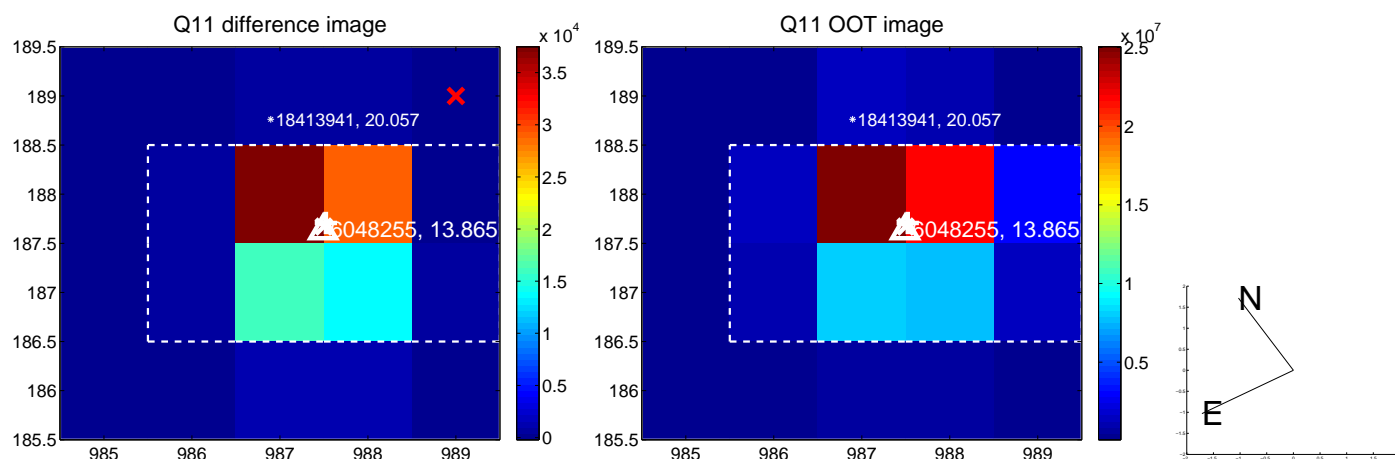
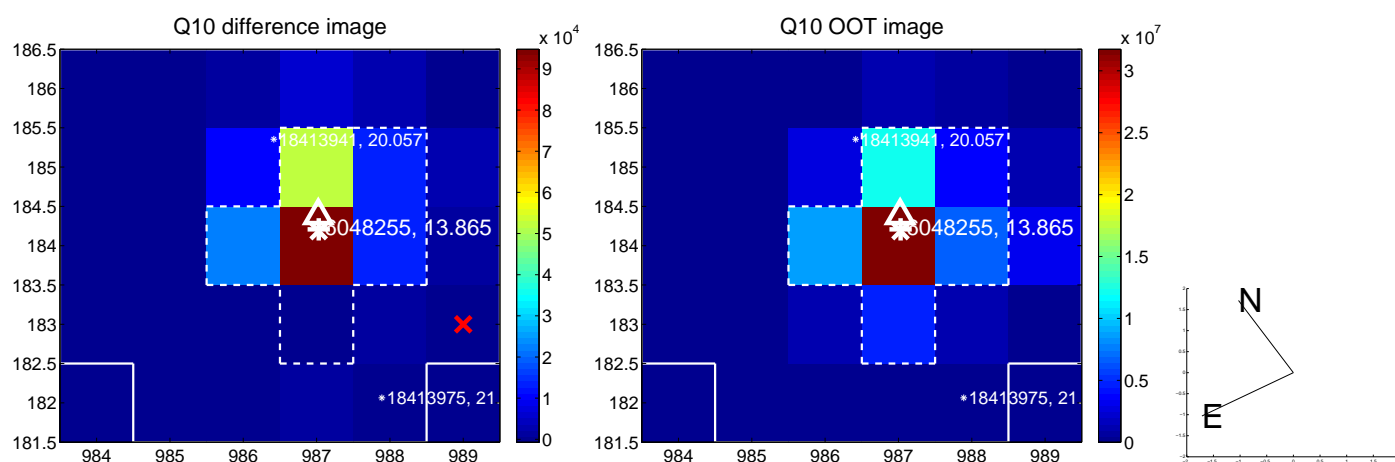
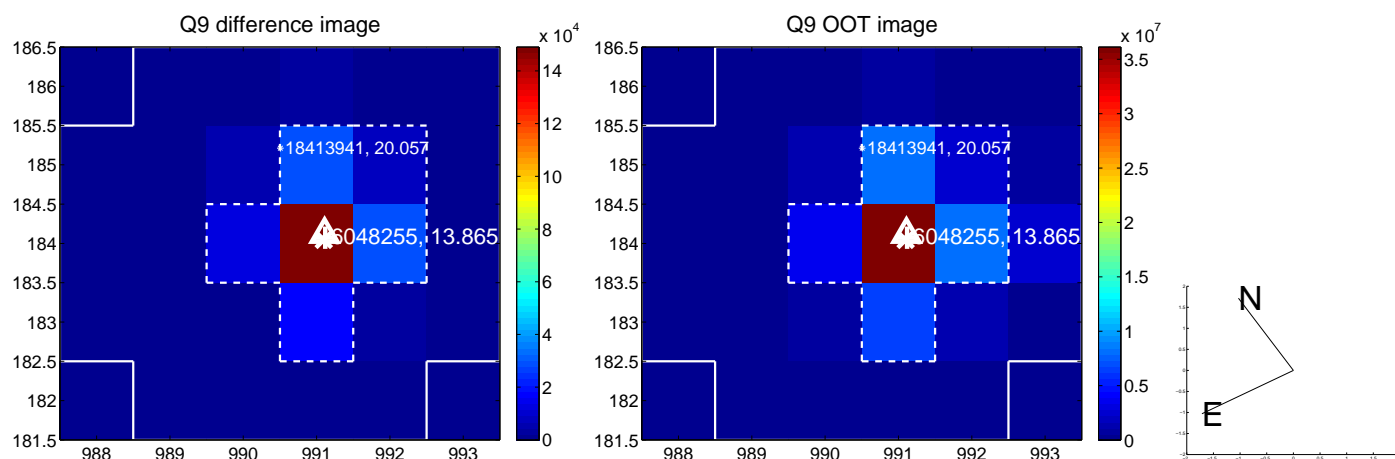
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



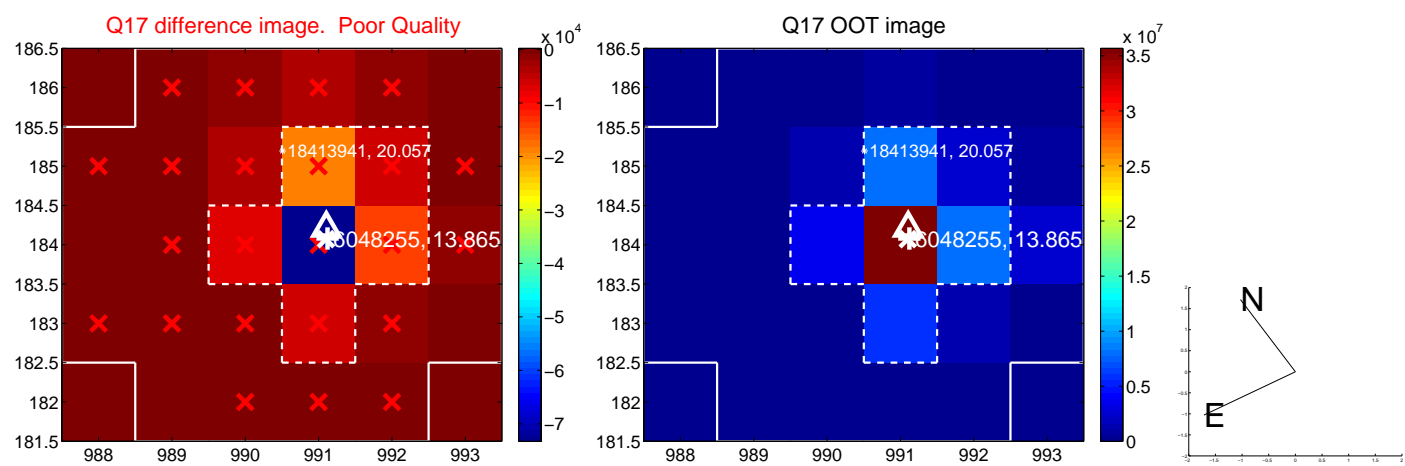
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

