

KIC 006132088

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})
006132088-01	OBS	No	5.150928	133.870672	0.0	40.314	9.6	0.0	2.40	7712	0.02	3360.49

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006132088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS

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

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

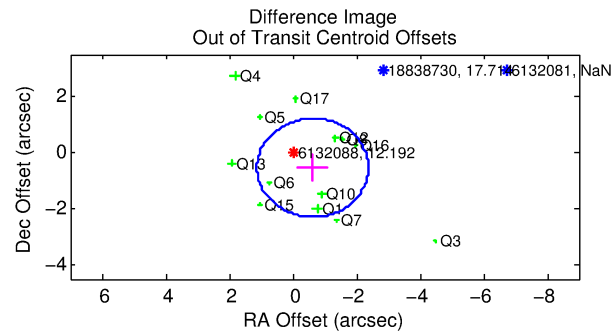
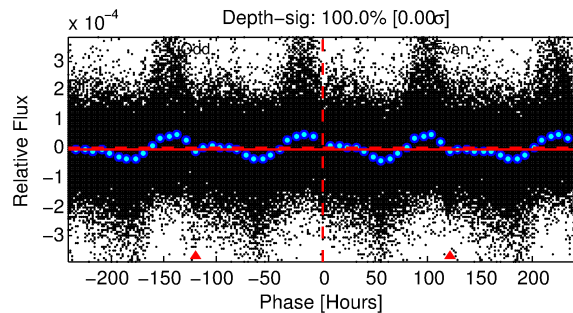
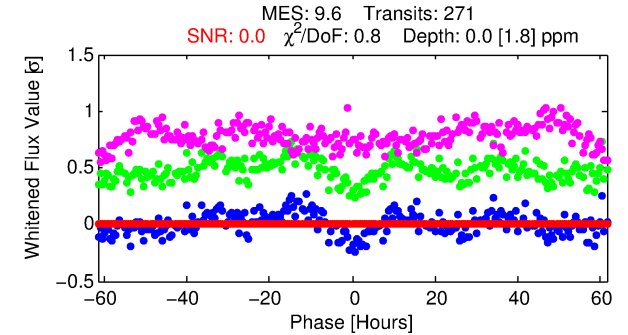
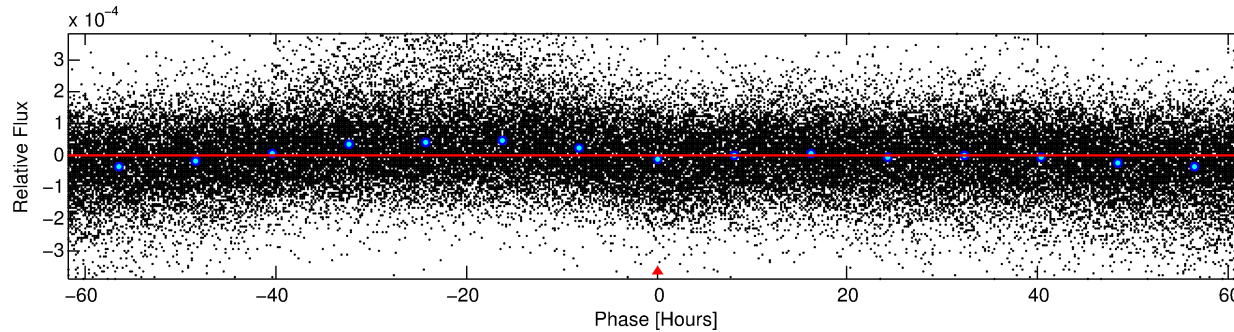
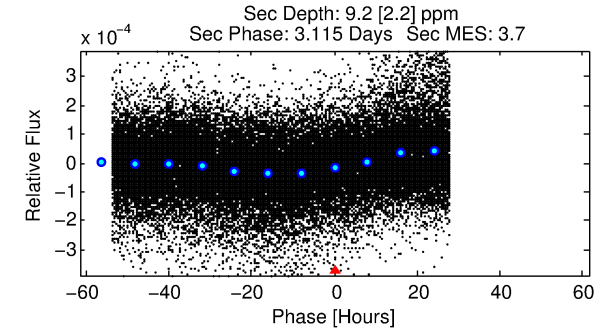
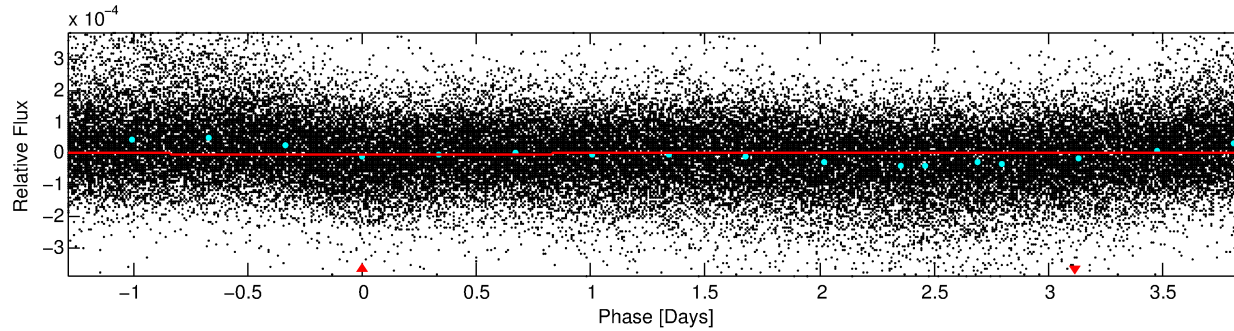
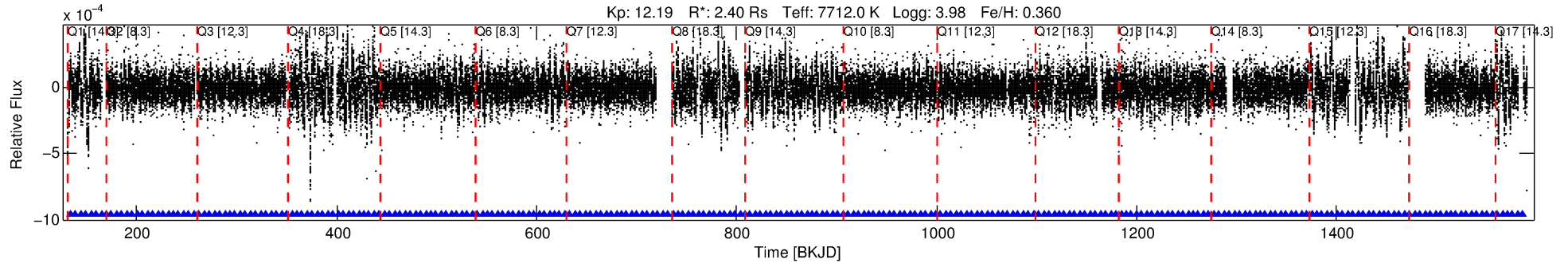
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006132088-01

No Significant Match Found

DV One-Page Summary

KIC: 6132088 Candidate: 1 of 1 Period: 5.151 d



DV Fit Results:

Period = 5.15093 [0.29796] d
Epoch = 133.8707 [41.4025] BKJD
Rp/R* = 0.0001 [0.0132]
a/R* = 1.17 [84.77]
b = 0.01 [40029.07]
Seff = 3360.49 [850.23]
Teq = 1941 [123] K
Rp = 0.02 [3.46] Re
a = 0.0737 [0.0120] AU
Ag = 108747.91 [47504684.18] [0.00σ]
Teffp = 54510 [5953008] K [0.01σ]

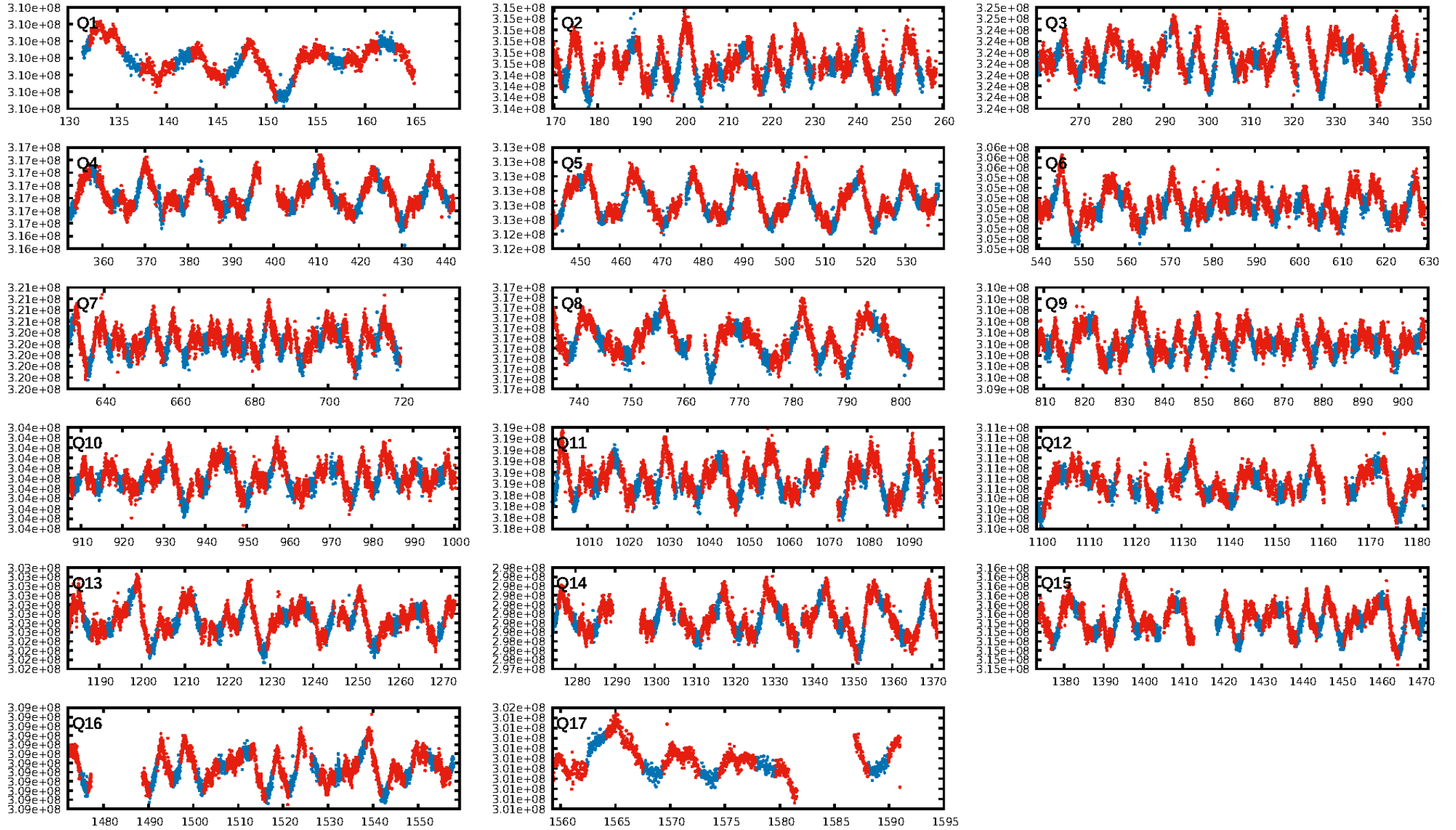
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [257/257]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.825 arcsec [1.41σ]
KicOffset-rm: 0.704 arcsec [1.23σ]
OotOffset-st: 2/3/4/4 [13]
KicOffset-st: 2/3/4/4 [13]
DiffImageQuality-fgm: 0.00 [0/13]
DiffImageOverlap-fno: 1.00 [17/17]

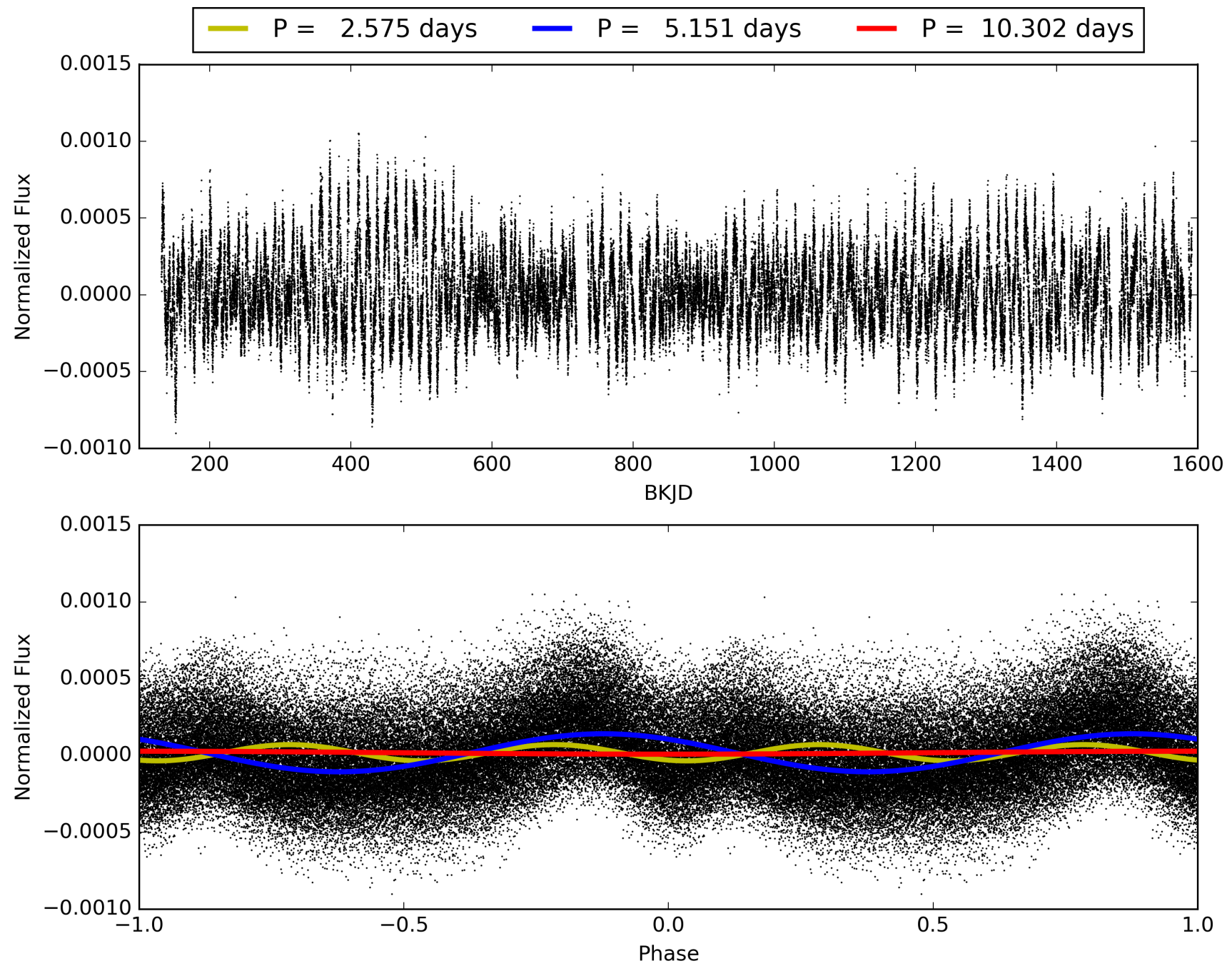
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:38:06 Z

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

TCE 006132088-01, PDC Light Curves

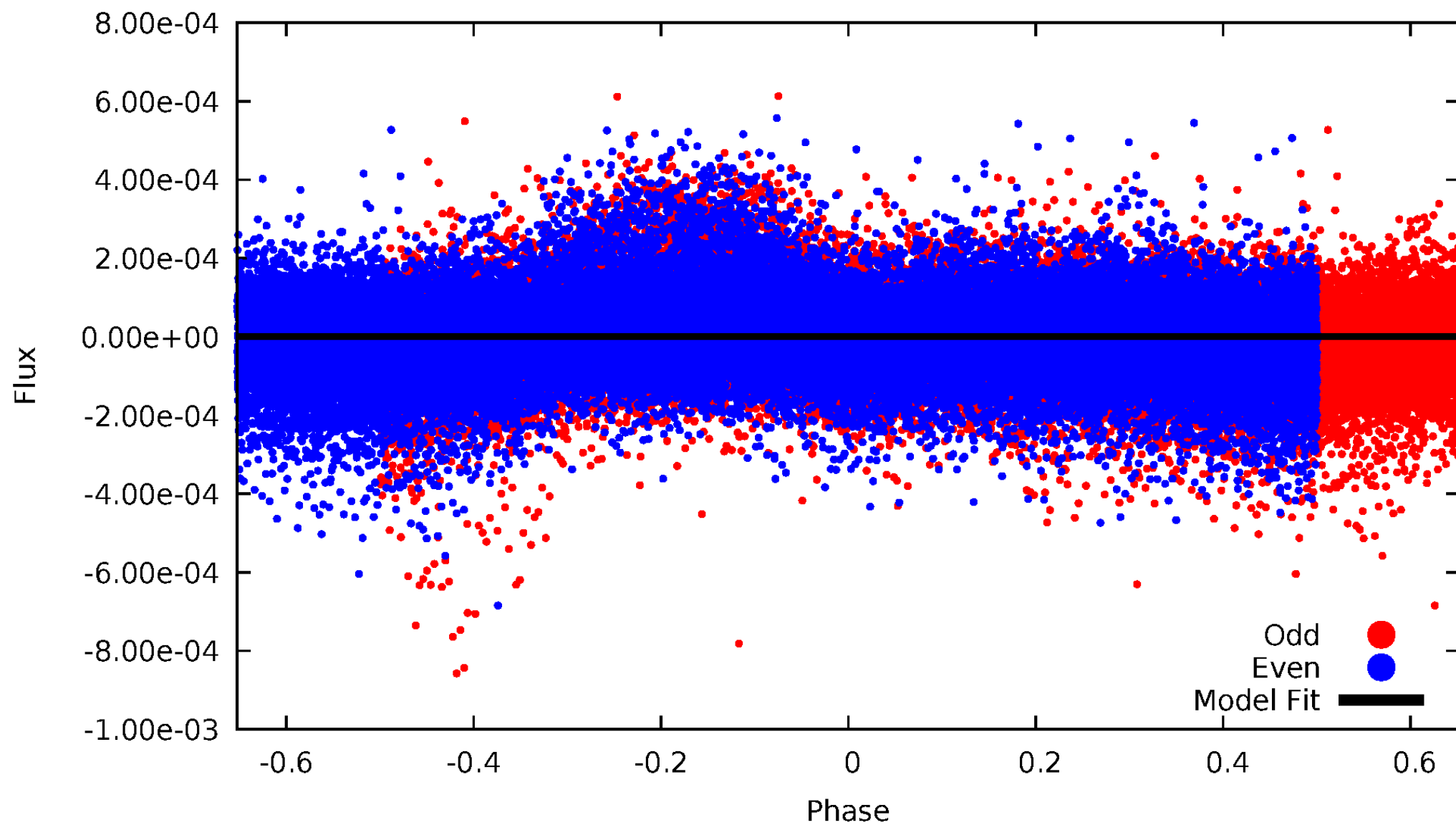


TCE 006132088-01



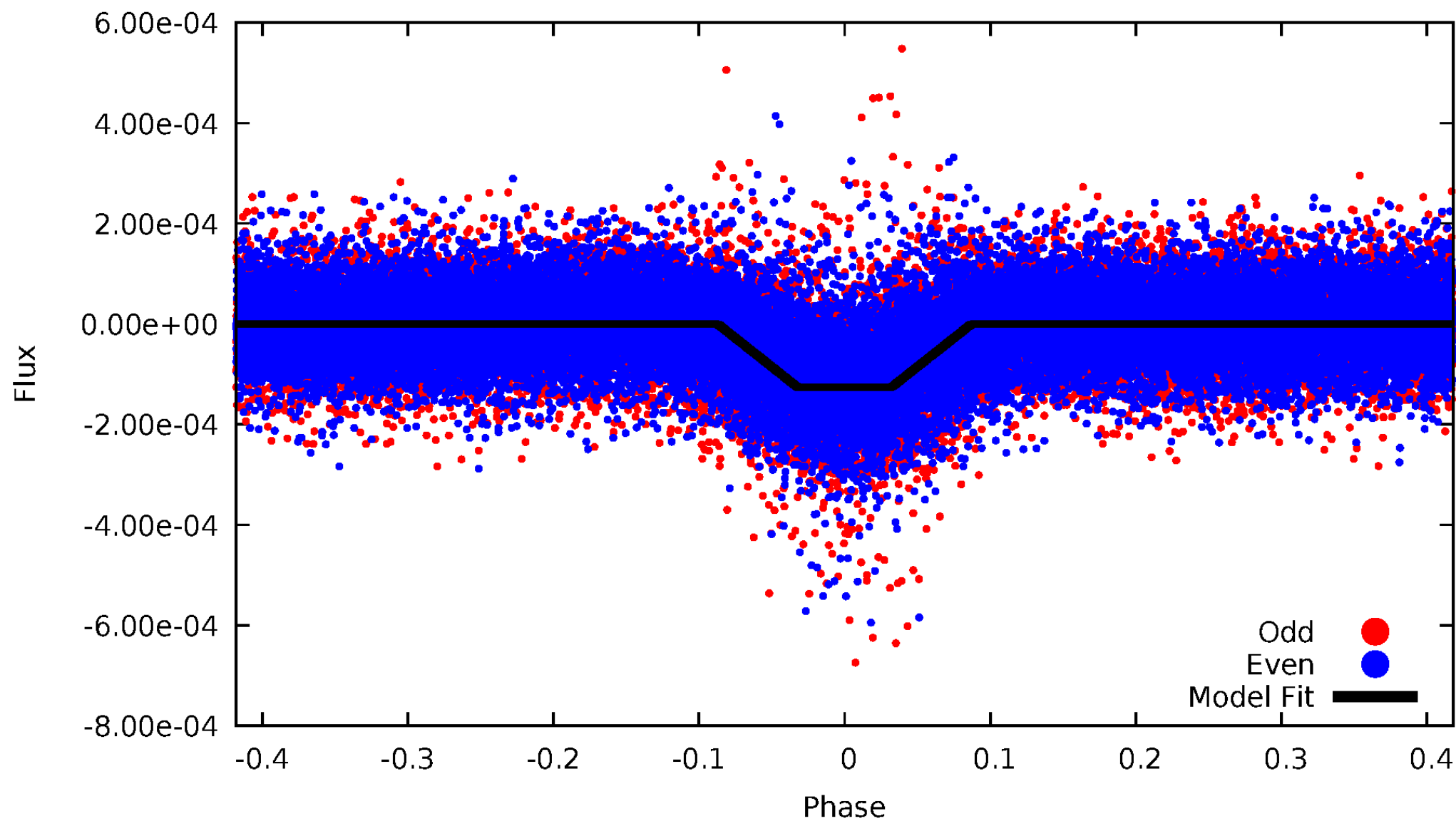
DV Odd/Even

TCE 006132088-01



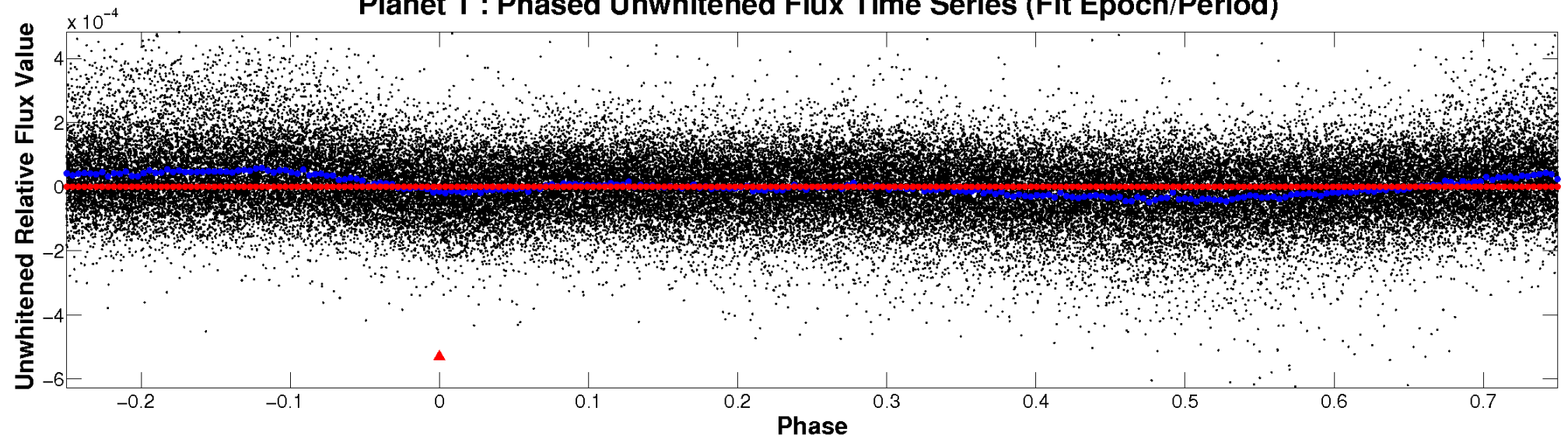
ALT Odd/Even

TCE 006132088-01

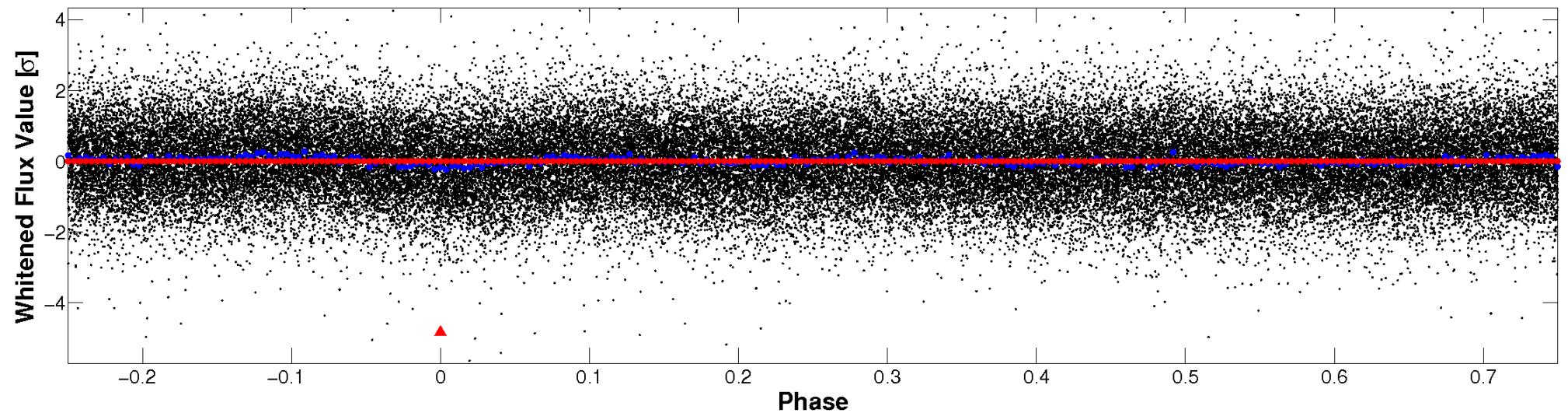


Non-Whitened Vs. Whitened Light Curve

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

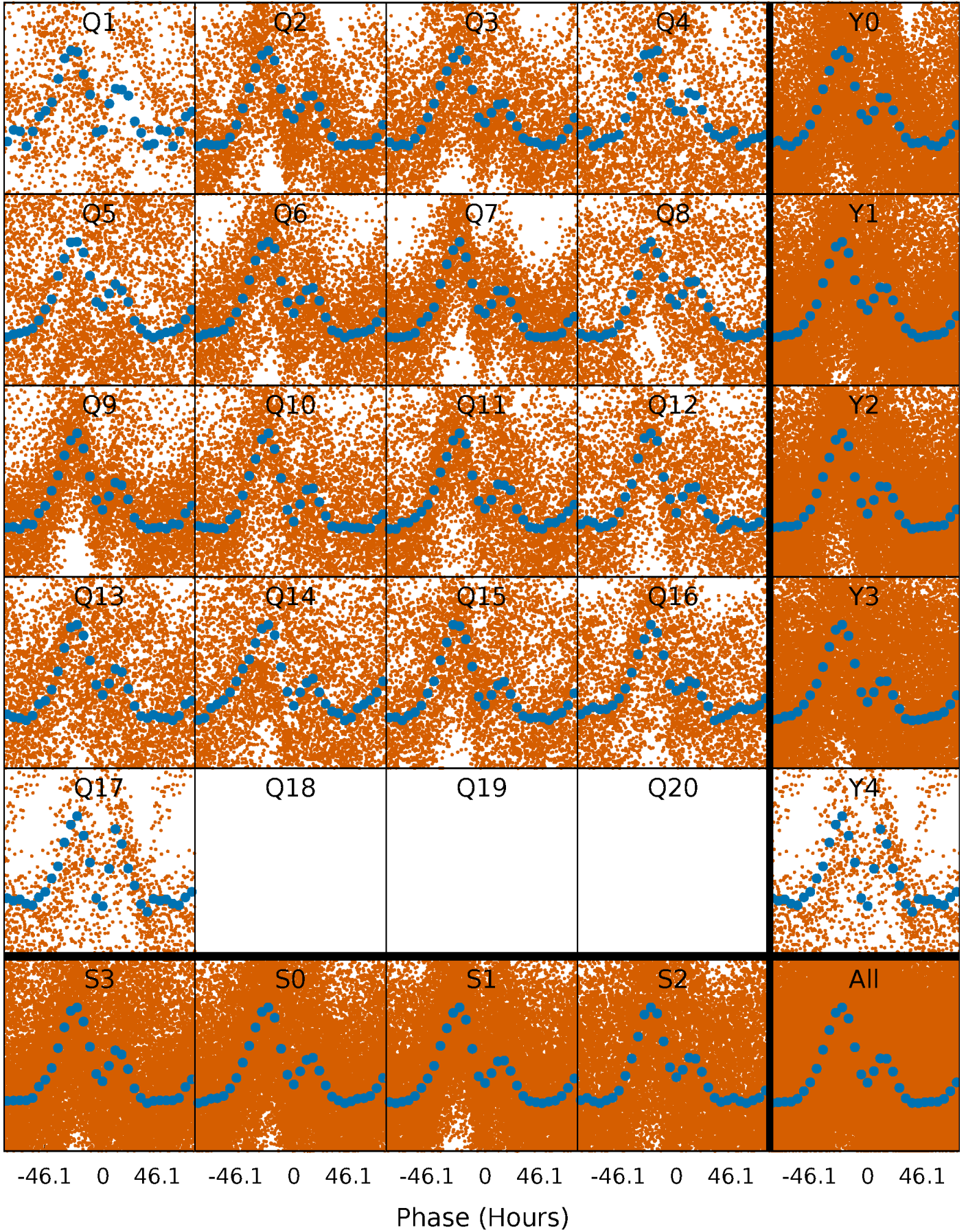


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



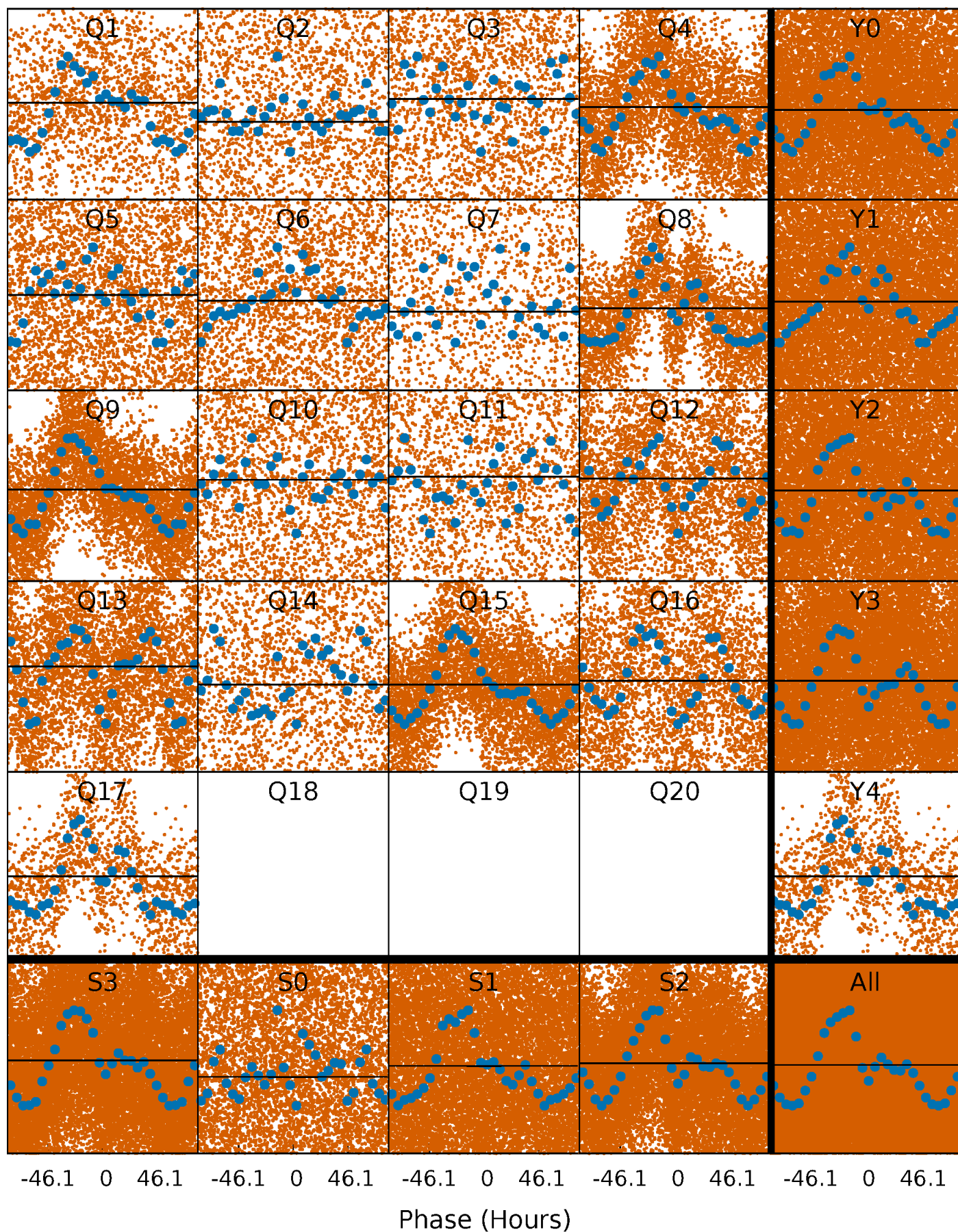
PDC Quarter-Phased Transit Curves

TCE 006132088-01 P= 5.150928 Days $T_0=133.870672$ (BKJD)



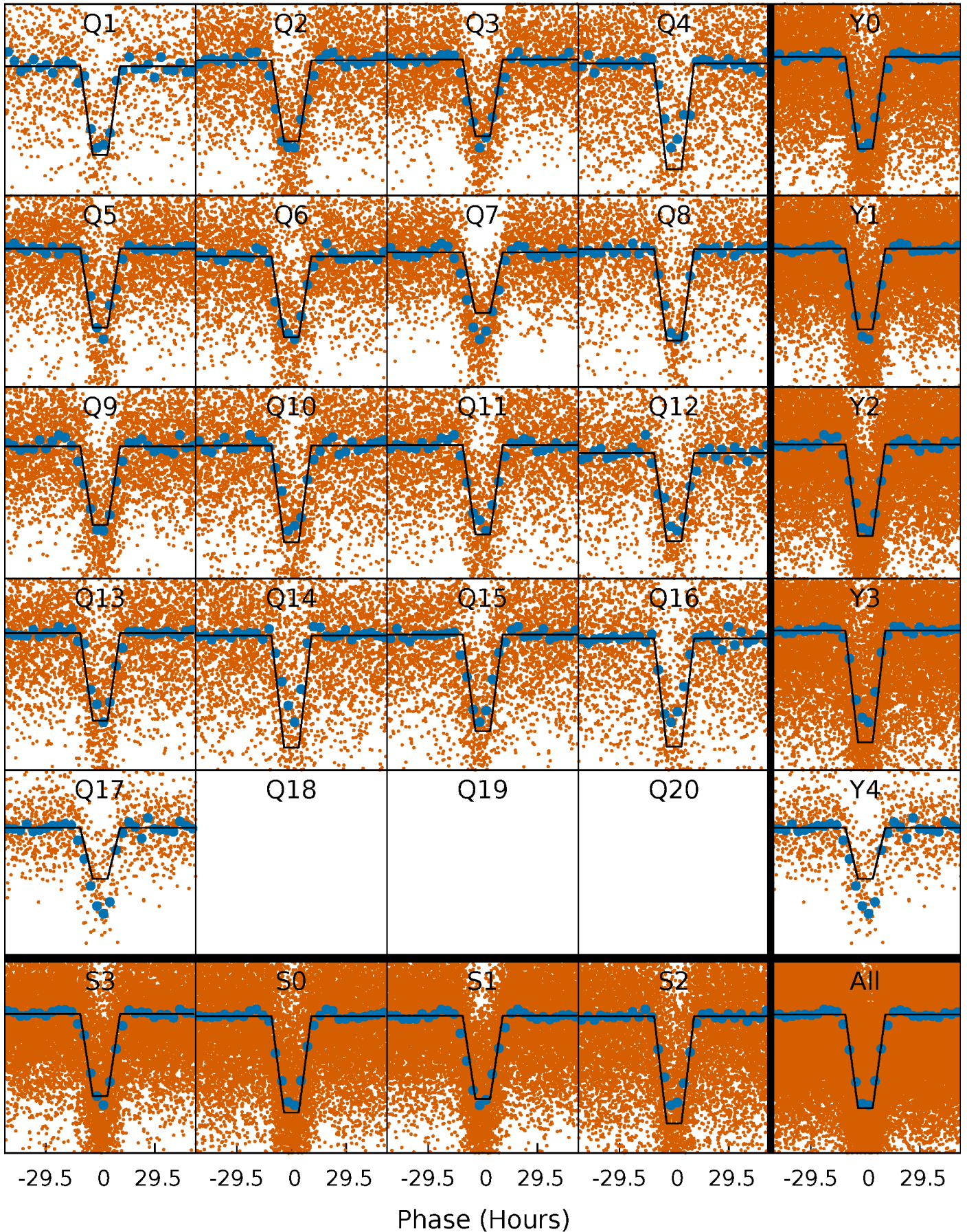
DV Quarter-Phased Transit Curves

TCE 006132088-01 P= 5.150928 Days $T_0=133.870672$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

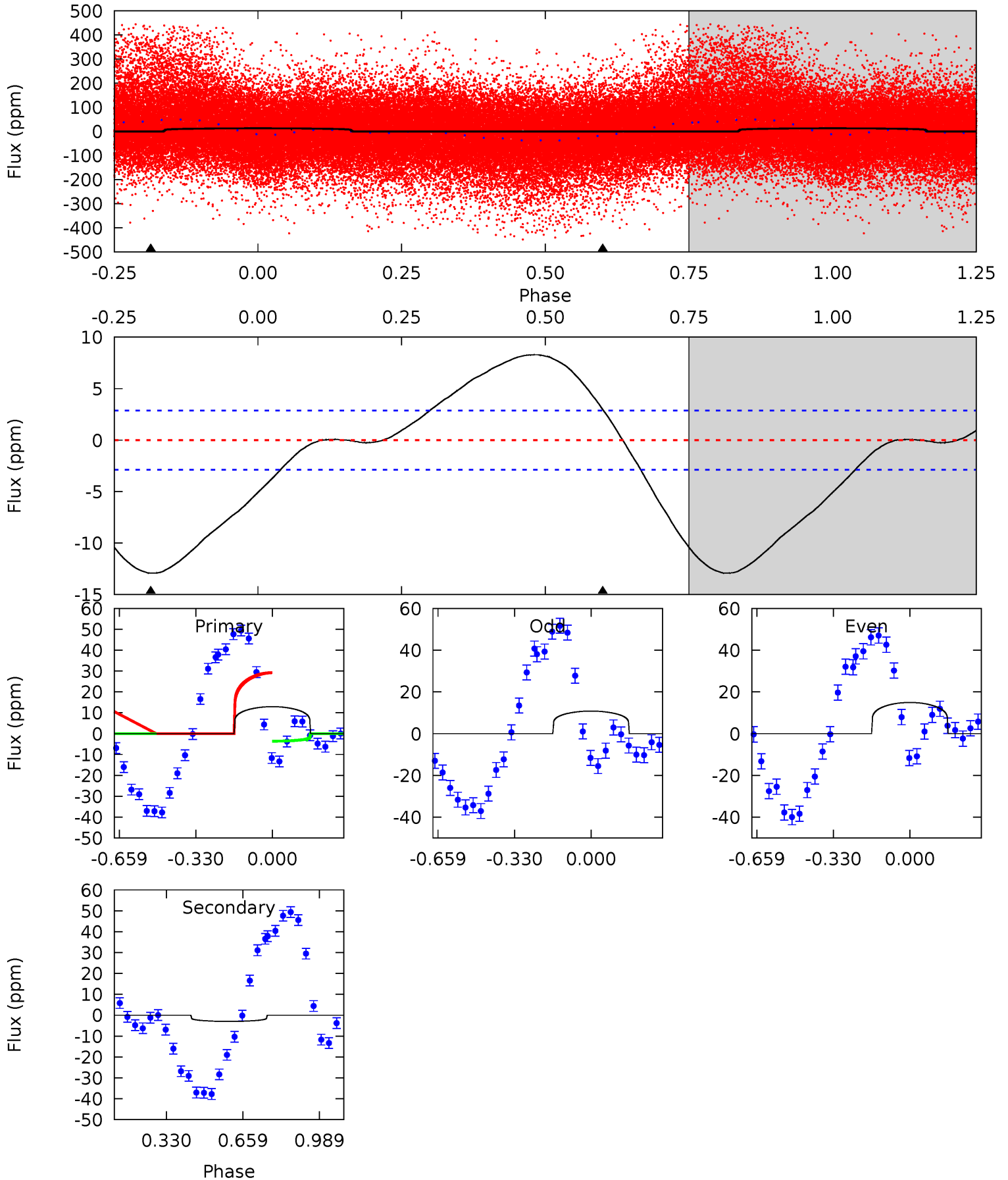
TCE 006132088-01 P= 5.151056 Days $T_0=133.871070$ (BKJD)



DV Model-Shift Uniqueness Test

006132088-01, P = 5.150928 Days, E = 128.719744 Days

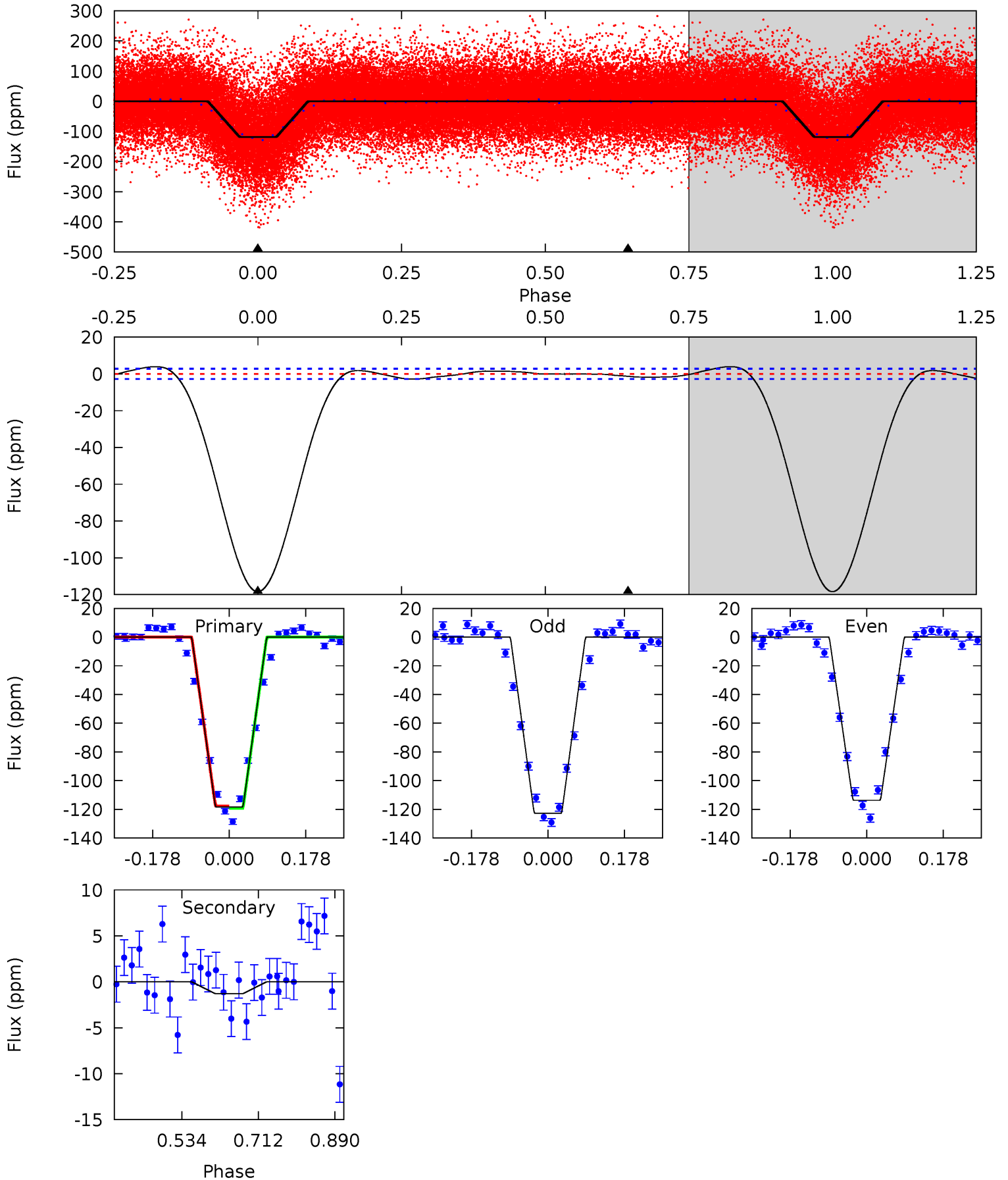
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.4	-4.44	0	0	4.31	0.97	0.82	19.4	19.4	-4.44	-4.44	3.10	1.77	0.39	18.5



Alt Model-Shift Uniqueness Test

006132088-01, P = 5.151056 Days, E = 128.720014 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
187.1	2.05	0	0	4.44	1.35	2.43	187.1	187.1	2.05	2.05	7.15	0.98	0.03	1.19



Stellar Parameters For KIC 006132088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7712^{+77}_{-93}	$3.981^{+0.132}_{-0.120}$	$0.360^{+0.050}_{-0.300}$	$2.399^{+0.436}_{-0.392}$	$2.008^{+0.147}_{-0.163}$	$0.205^{+0.116}_{-0.074}$
	+1%/-1%	+3%/-3%	+14%/-83%	+18%/-16%	+7%/-8%	+56%/-36%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 006132088-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	3 ± 1	$2.40^{+2.72}_{-1.73}$	2715^{+137}_{-141}	-3806^{+584}_{-2384}	$-1.495^{+1.155}_{-17.259}$
Alt.	-1 ± 1	$3.88^{+2.96}_{-2.52}$	2698^{+139}_{-133}	-2330^{+6117}_{-475}	$0.246^{+1.867}_{-0.186}$

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

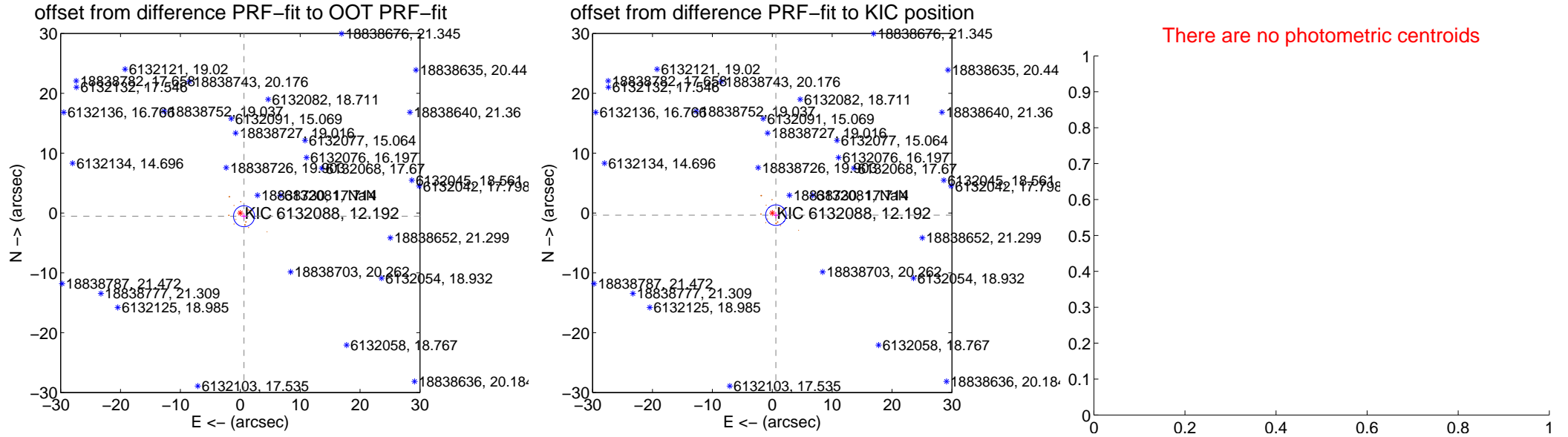
DV Centroid Data

Supplemental centroid analysis for 006132088-01. Kepler magnitude: 12.19. Transit SNR 0.00

There are 0 quarters with good PRF difference image offsets

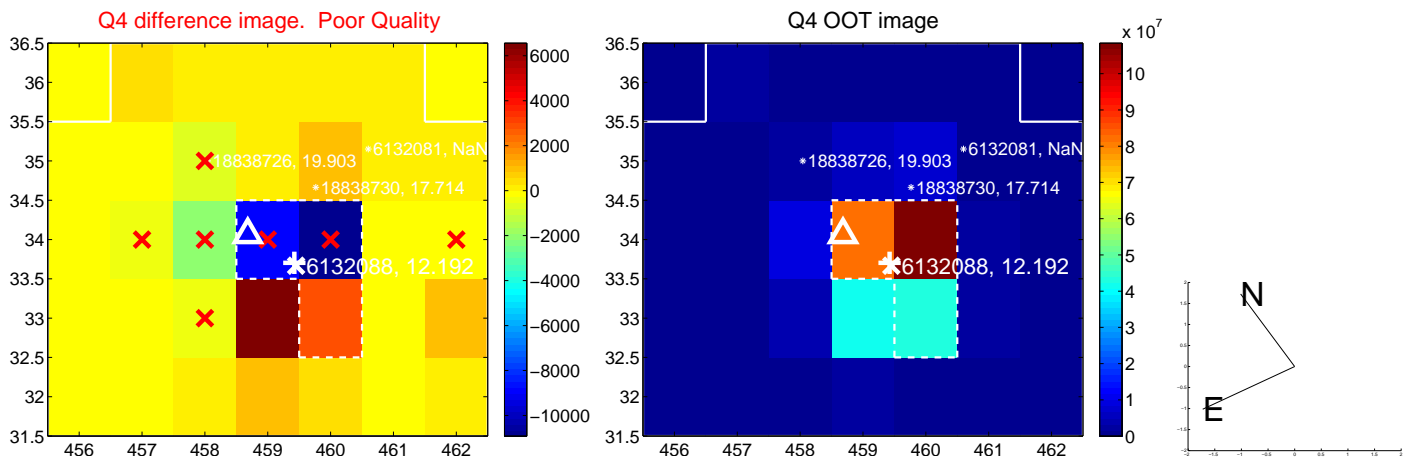
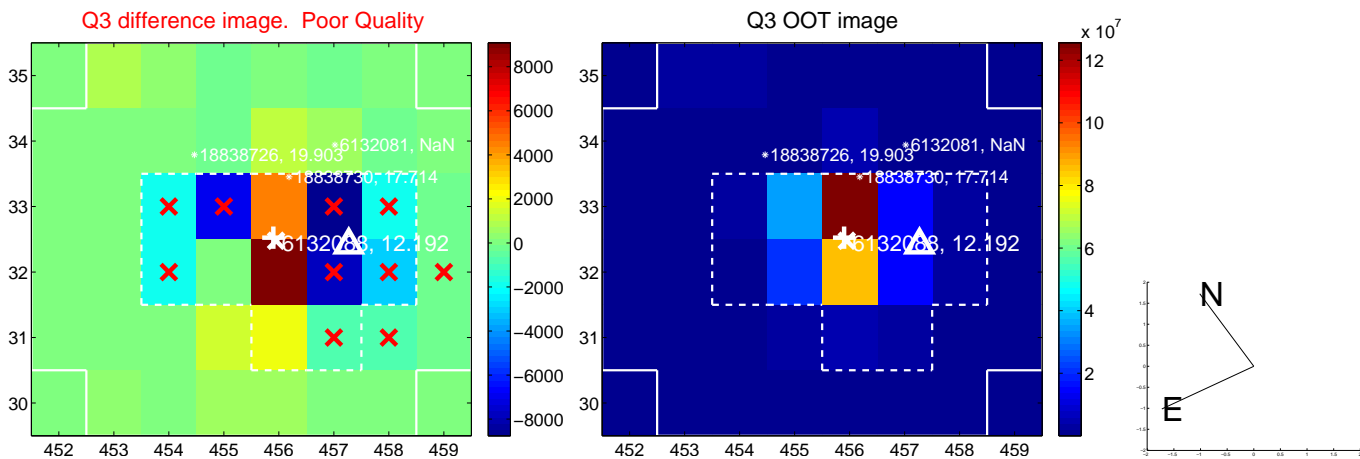
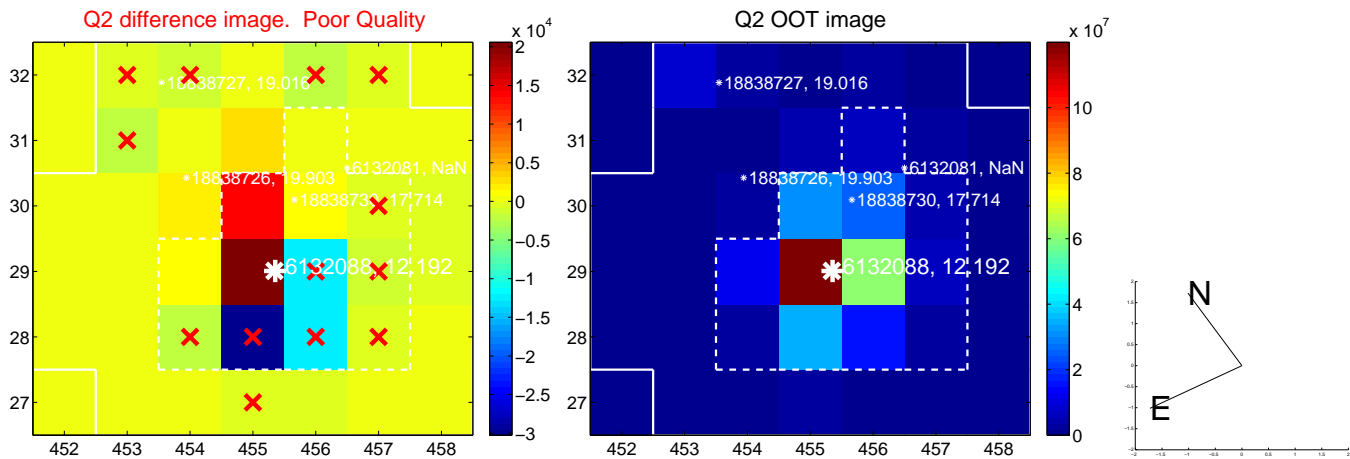
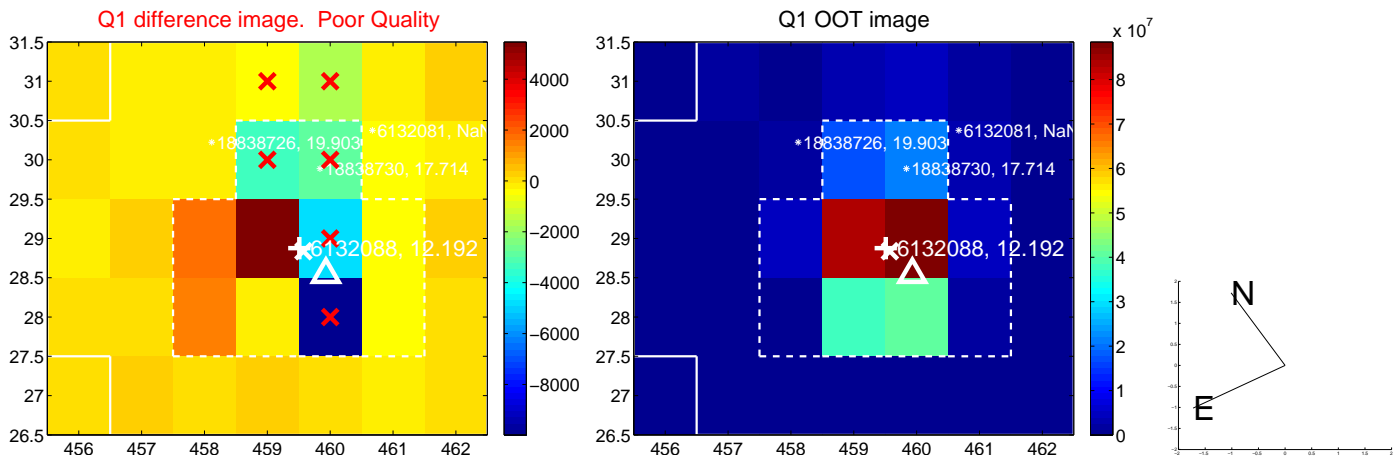
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.825 ± 0.584	1.41	-0.625 ± 0.487	-0.539 ± 0.474
PRF-fit source offset from KIC position	0.704 ± 0.573	1.23	-0.607 ± 0.459	-0.356 ± 0.534
photometric centroid source offset	—	—	—	—

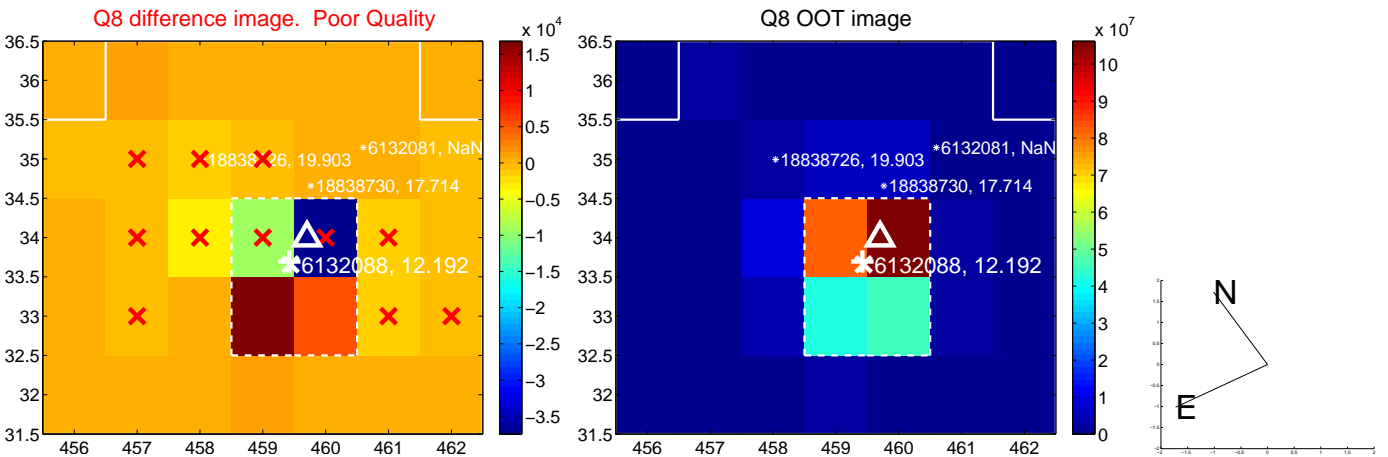
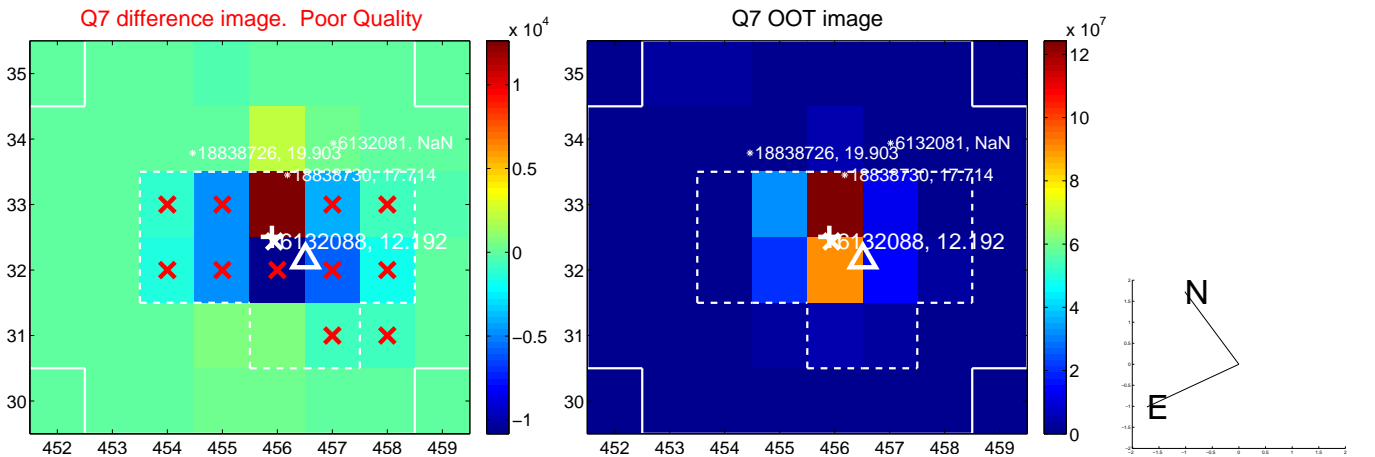
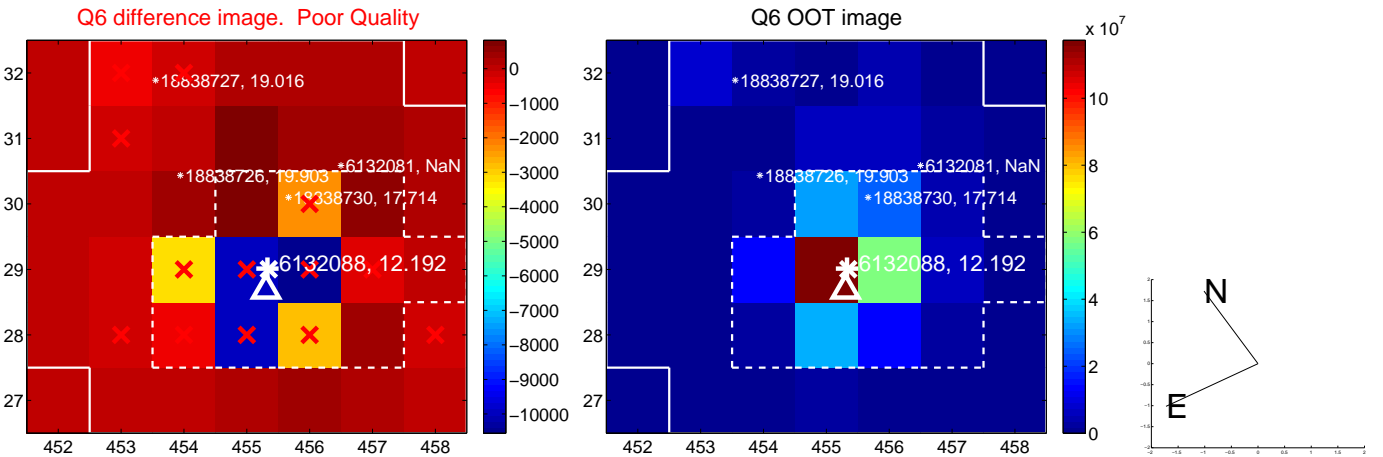
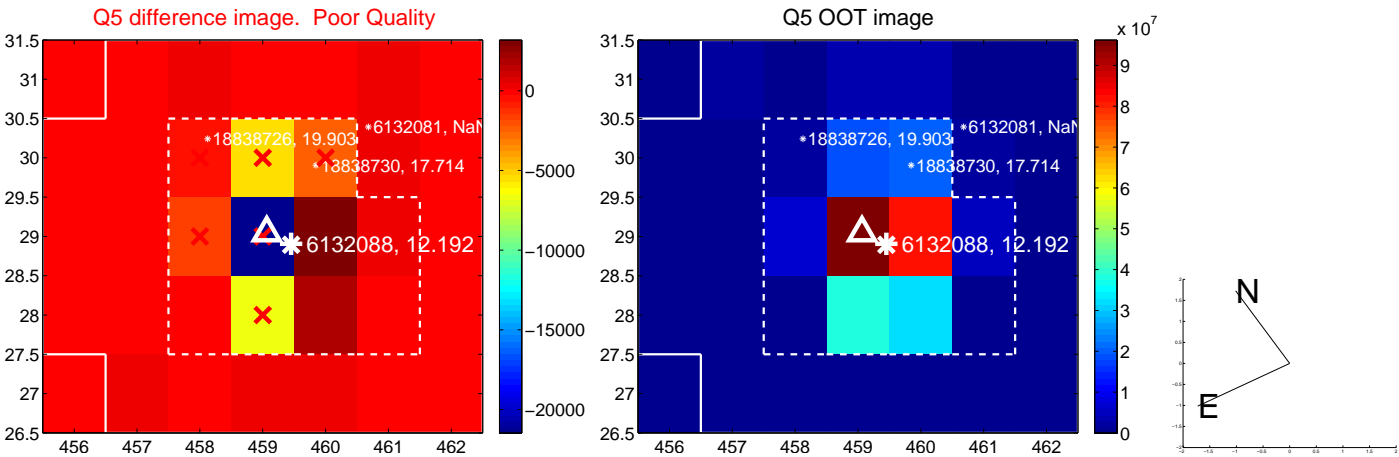


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

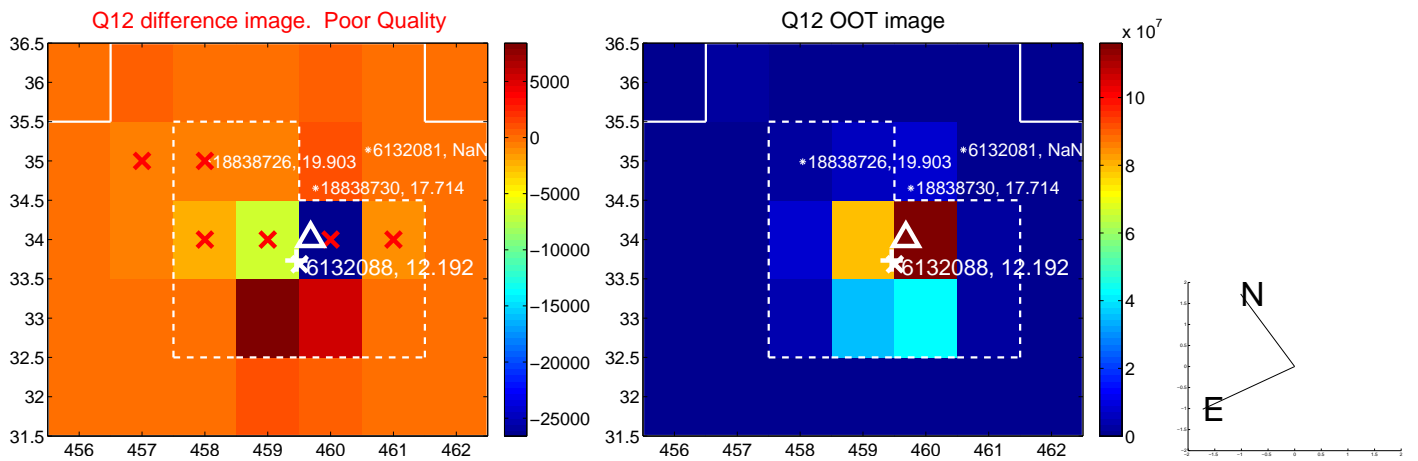
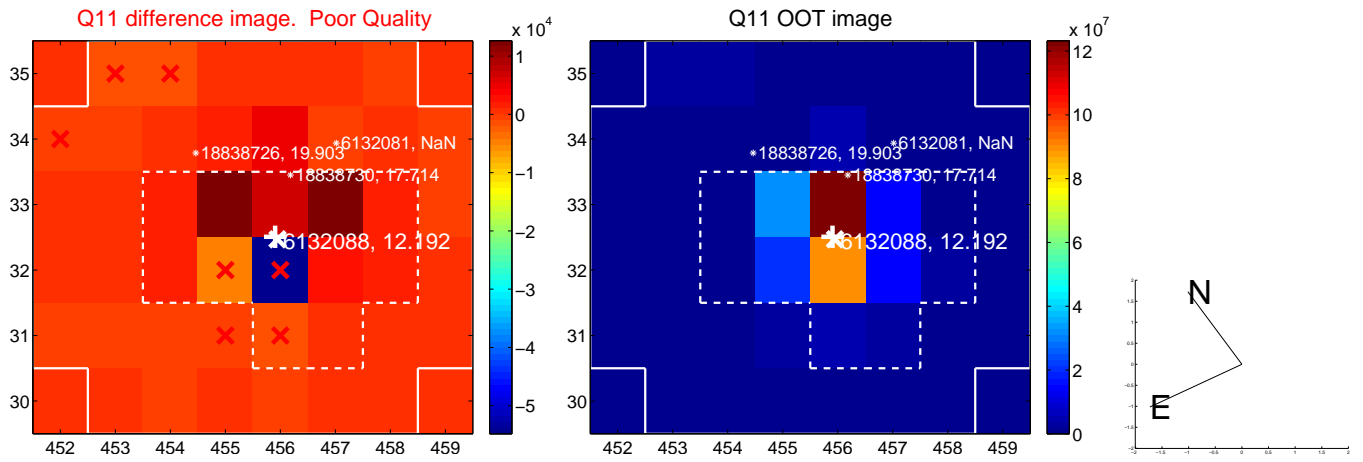
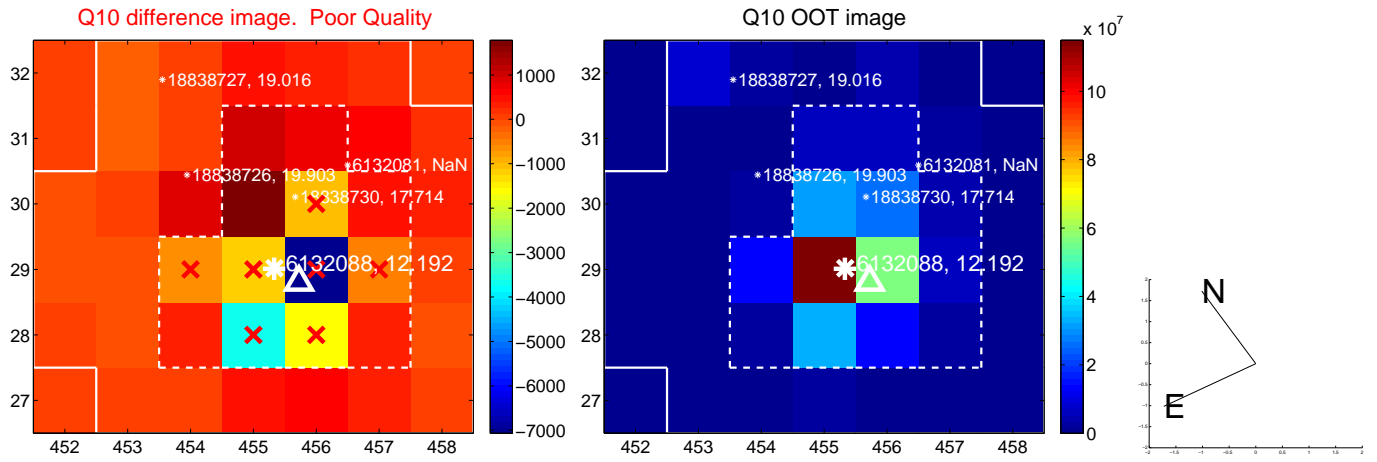
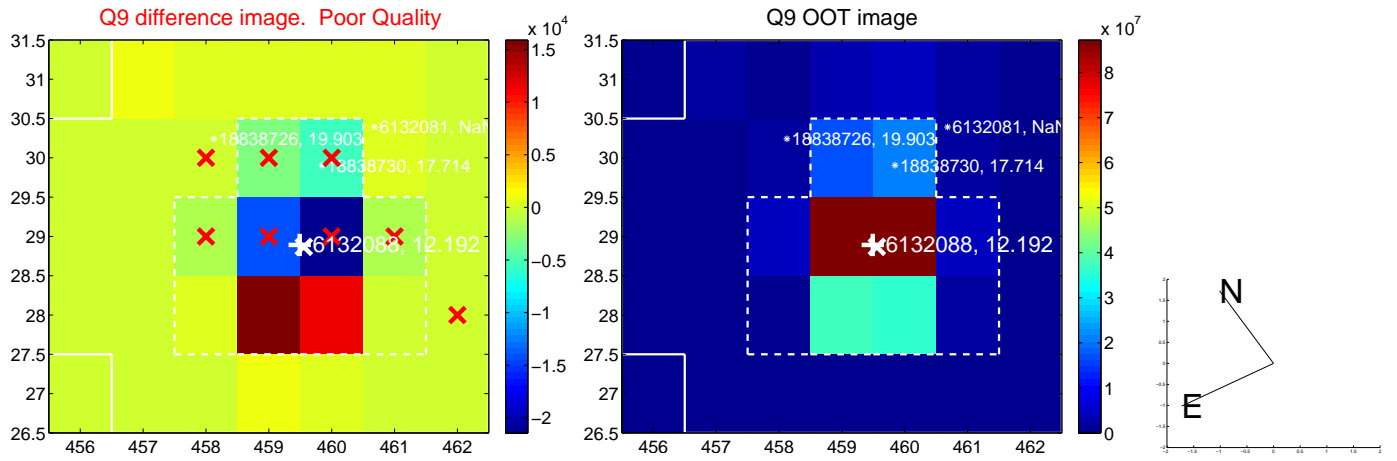
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



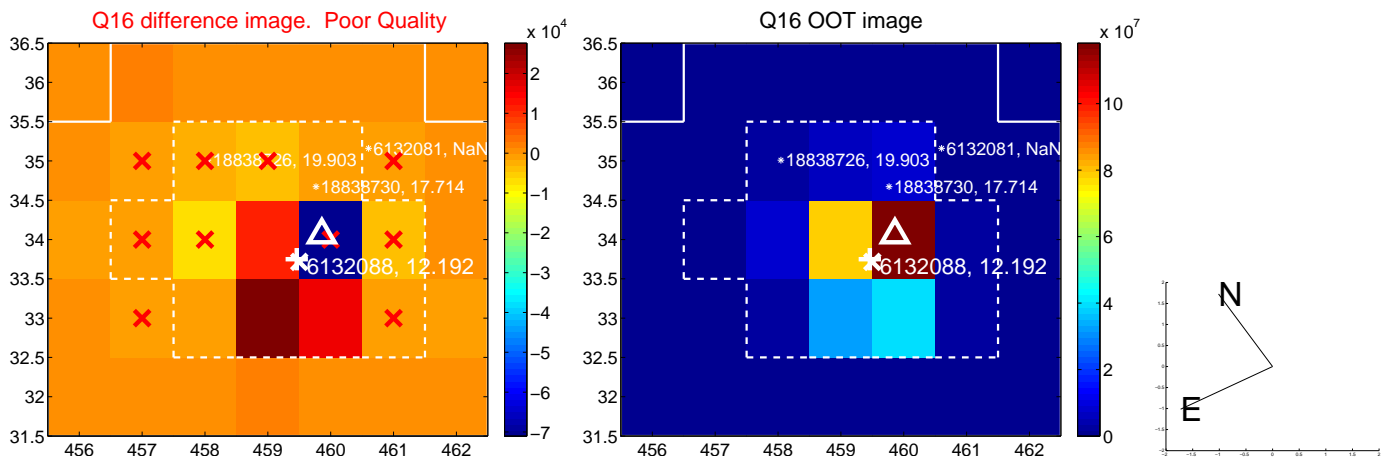
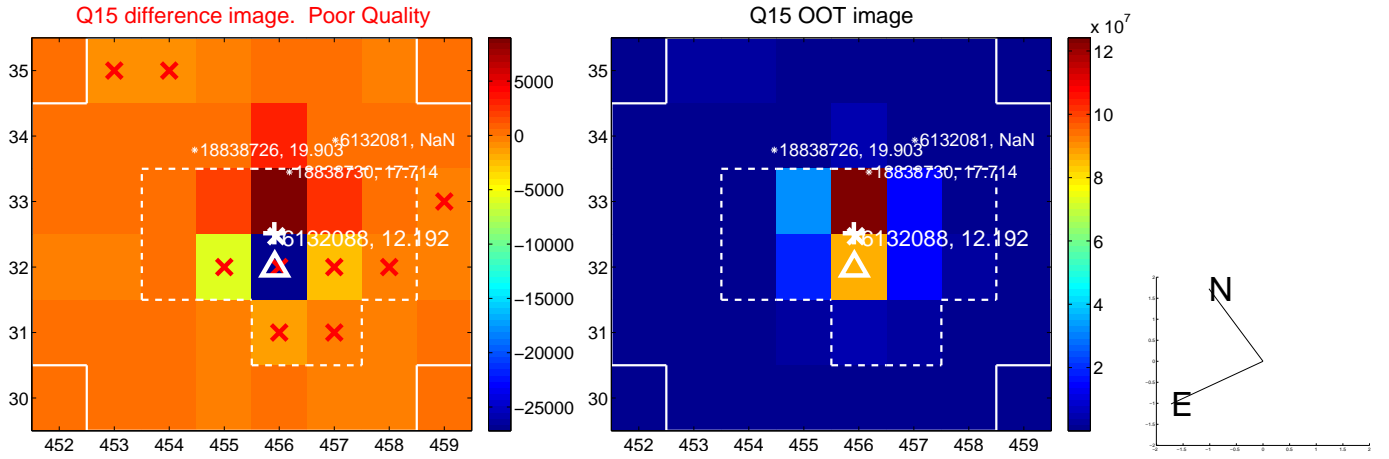
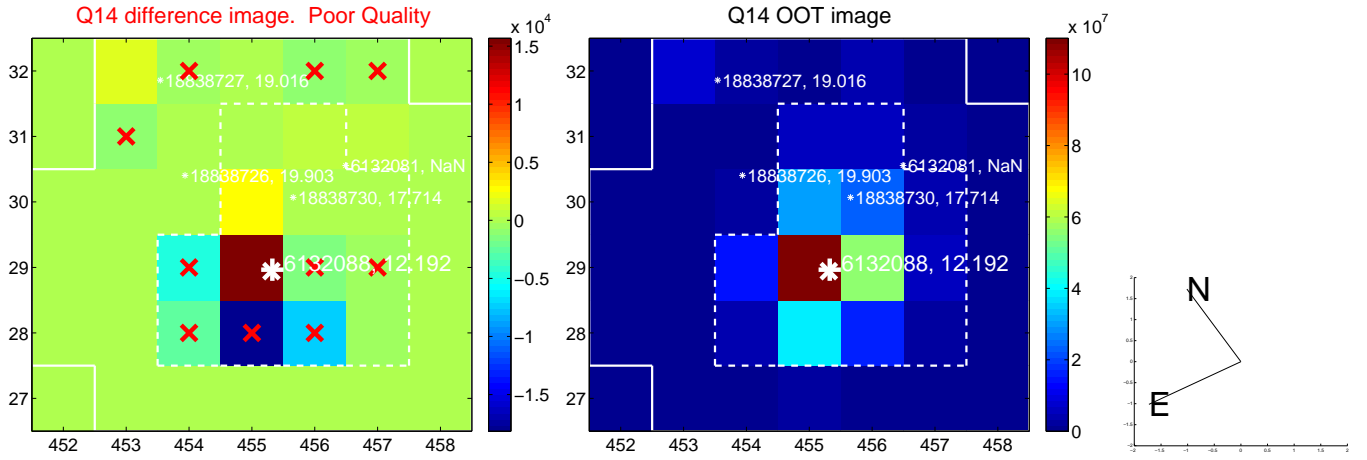
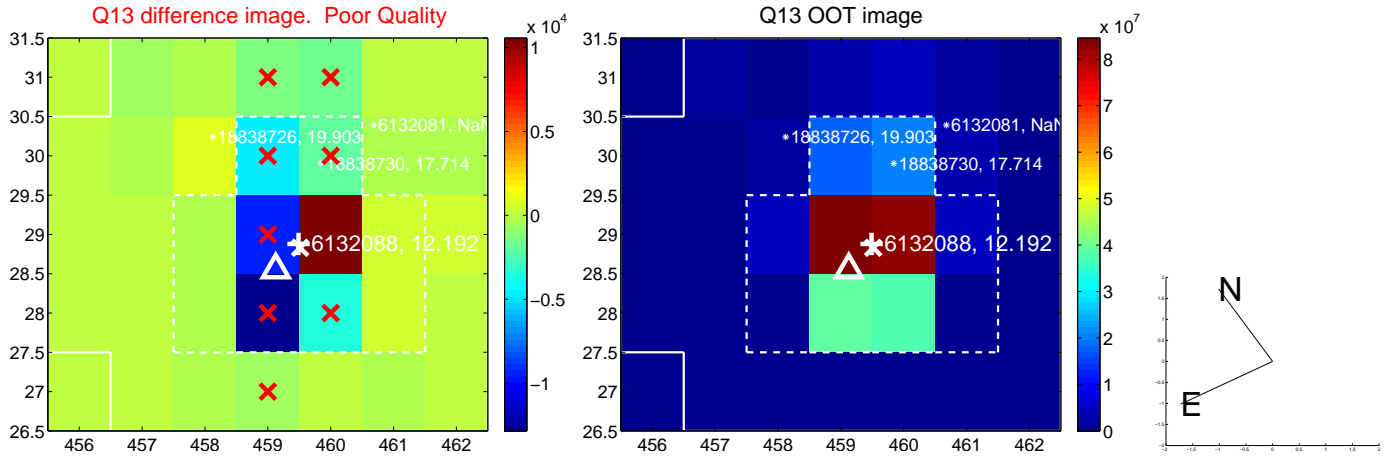
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



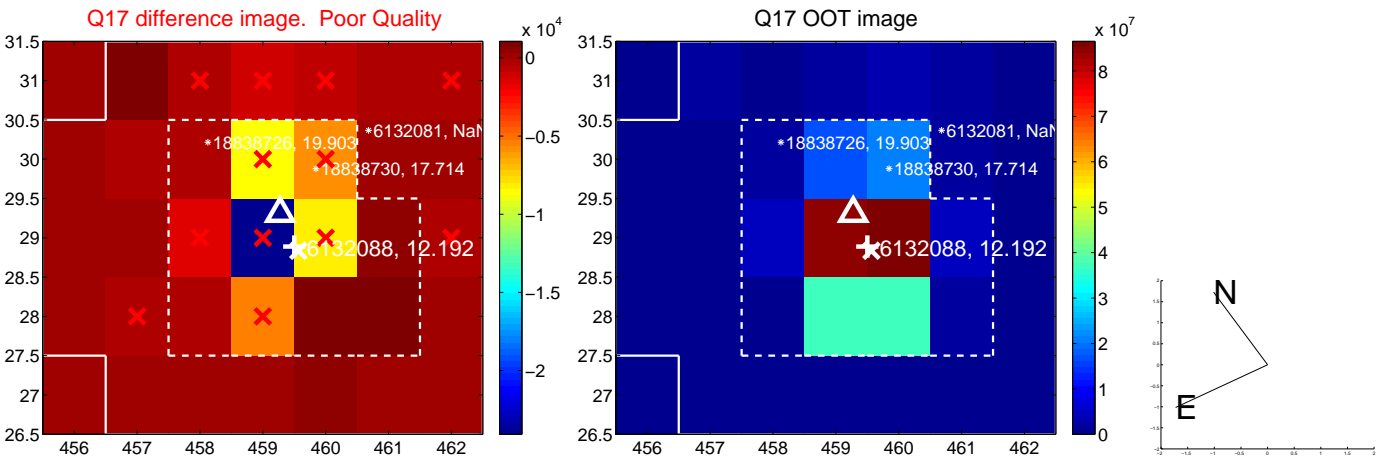
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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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

