

KIC 003560660

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})
003560660-01	OBS	No	0.520154	131.526961	13.3	4.928	9.5	4.8	2.20	7872	0.82	72801.21

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003560660-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—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.

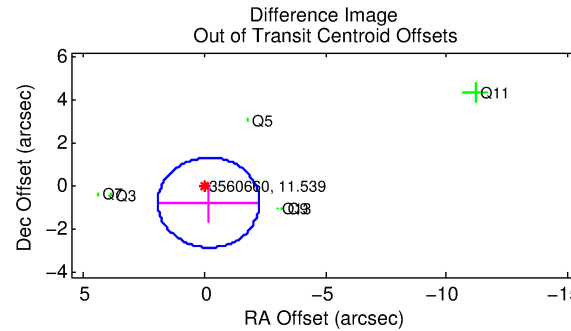
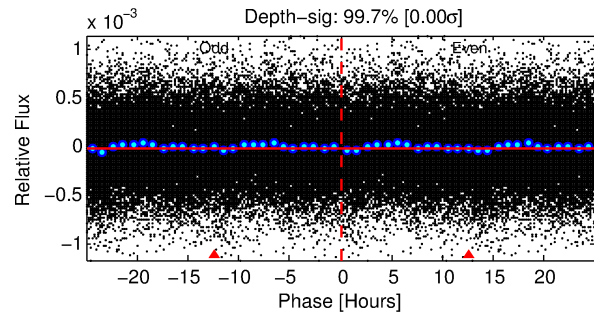
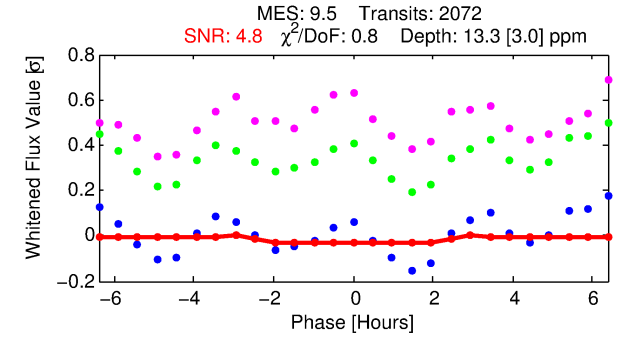
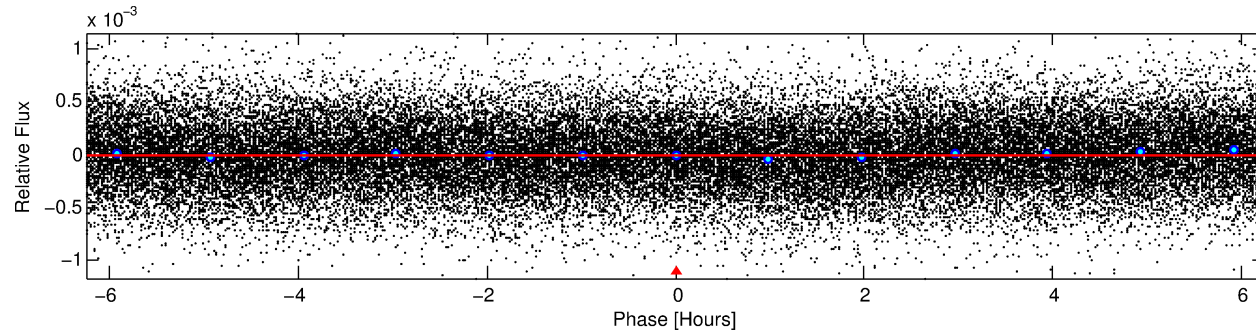
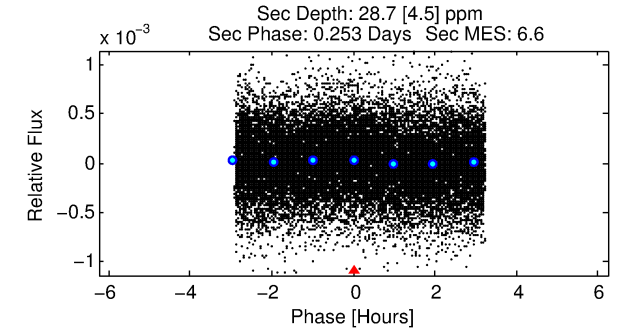
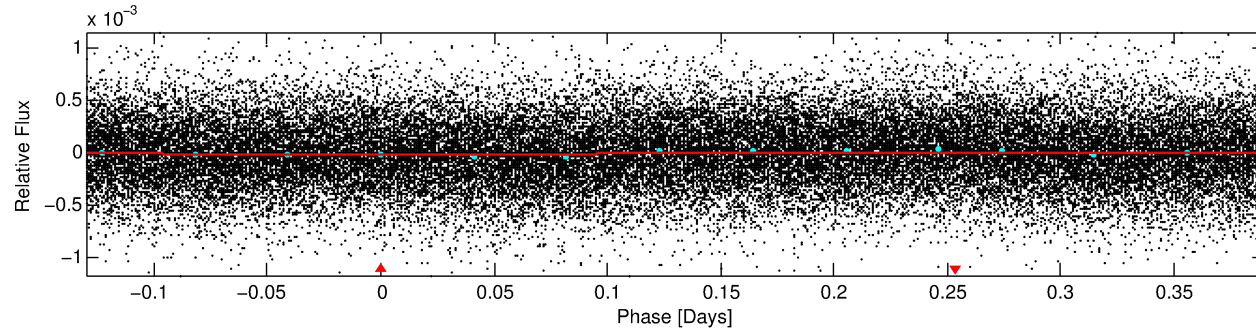
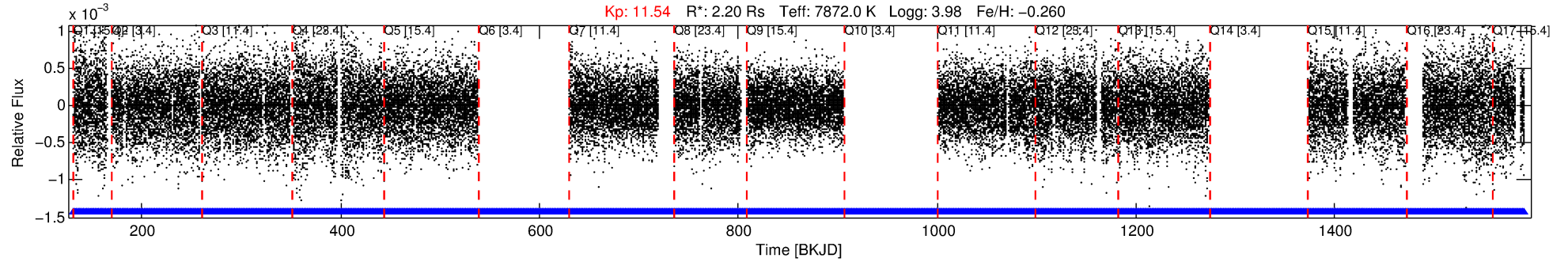
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003560660-01

No Significant Match Found

DV One-Page Summary

KIC: 3560660 Candidate: 1 of 1 Period: 0.520 d



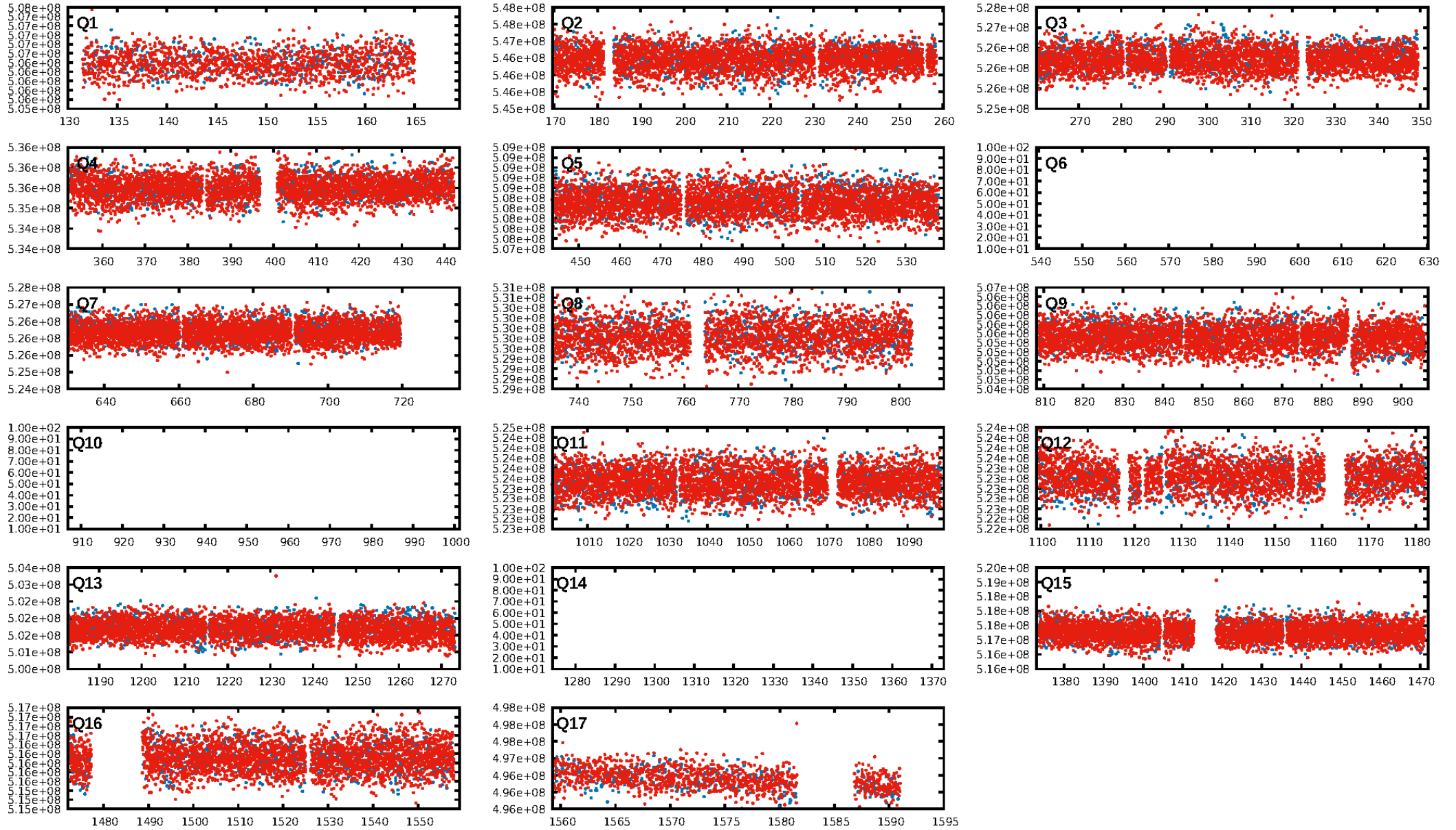
DV Fit Results:

Period = 0.52015 [0.00002] d
Epoch = 131.5270 [0.0091] BKJD
Rp/R* = 0.0034 [0.0056]
a/R* = 1.05 [0.90]
b = 0.37 [21.52]
Seff = 72801.21 [19147.20]
Teq = 4189 [275] K
Rp = 0.82 [1.36] Re
a = 0.0151 [0.0027] AU
Ag = 5.41 [17.89] [0.25σ]
Teffp = 9876 [8142] K [0.70σ]

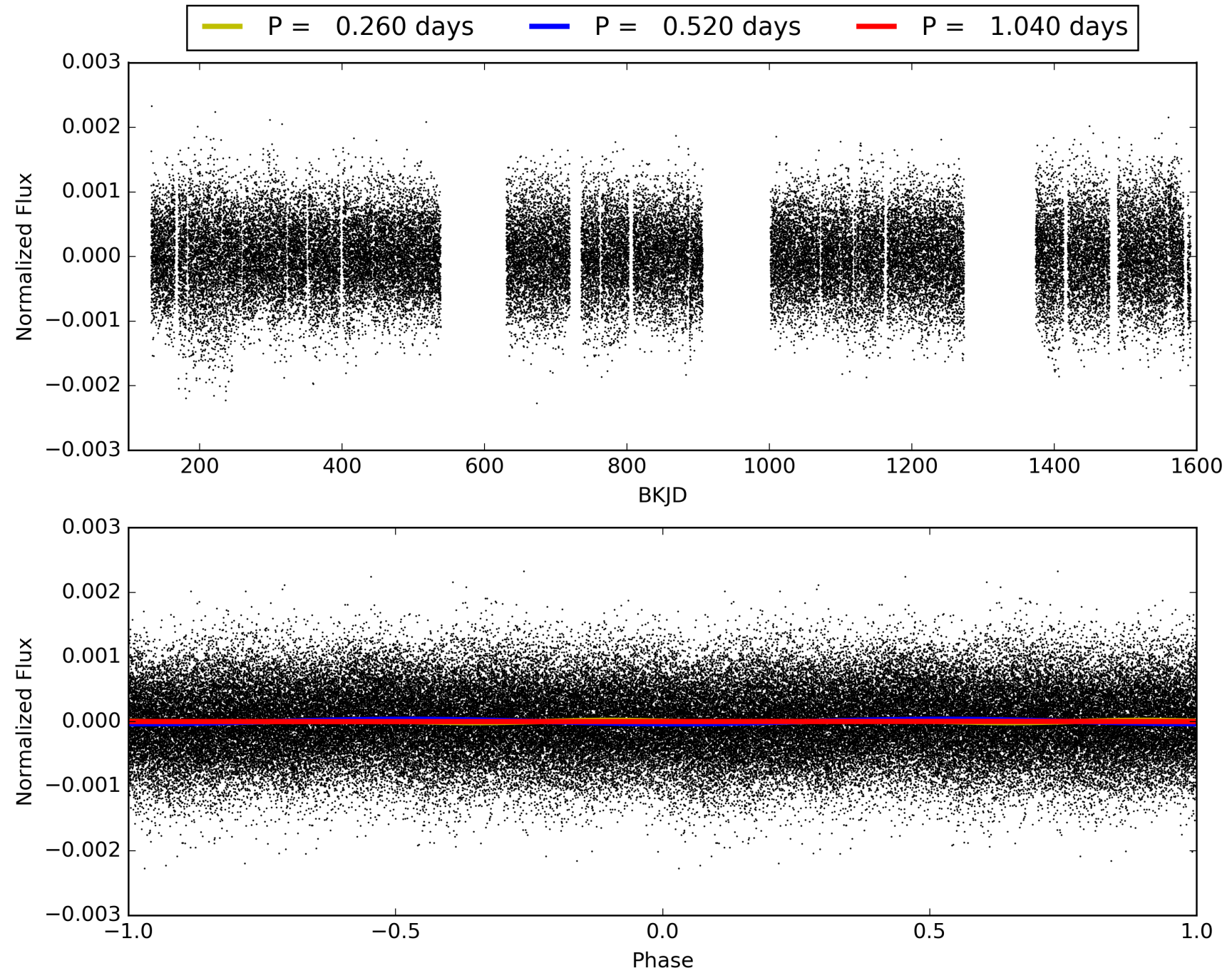
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1955/1955]
GhostDiagnostic-chr: 20.19
Centroid-sig: N/A
Centroid-so: 1.203 arcsec [1.96σ]
OotOffset-rm: 0.796 arcsec [1.14σ]
KicOffset-rm: 0.748 arcsec [1.15σ]
OotOffset-st: 0/3/0/3 [6]
KicOffset-st: 0/3/0/3 [6]
DiffImageQuality-fgm: 0.00 [0/6]
DiffImageOverlap-fno: 1.00 [14/14]

TCE 003560660-01, PDC Light Curves

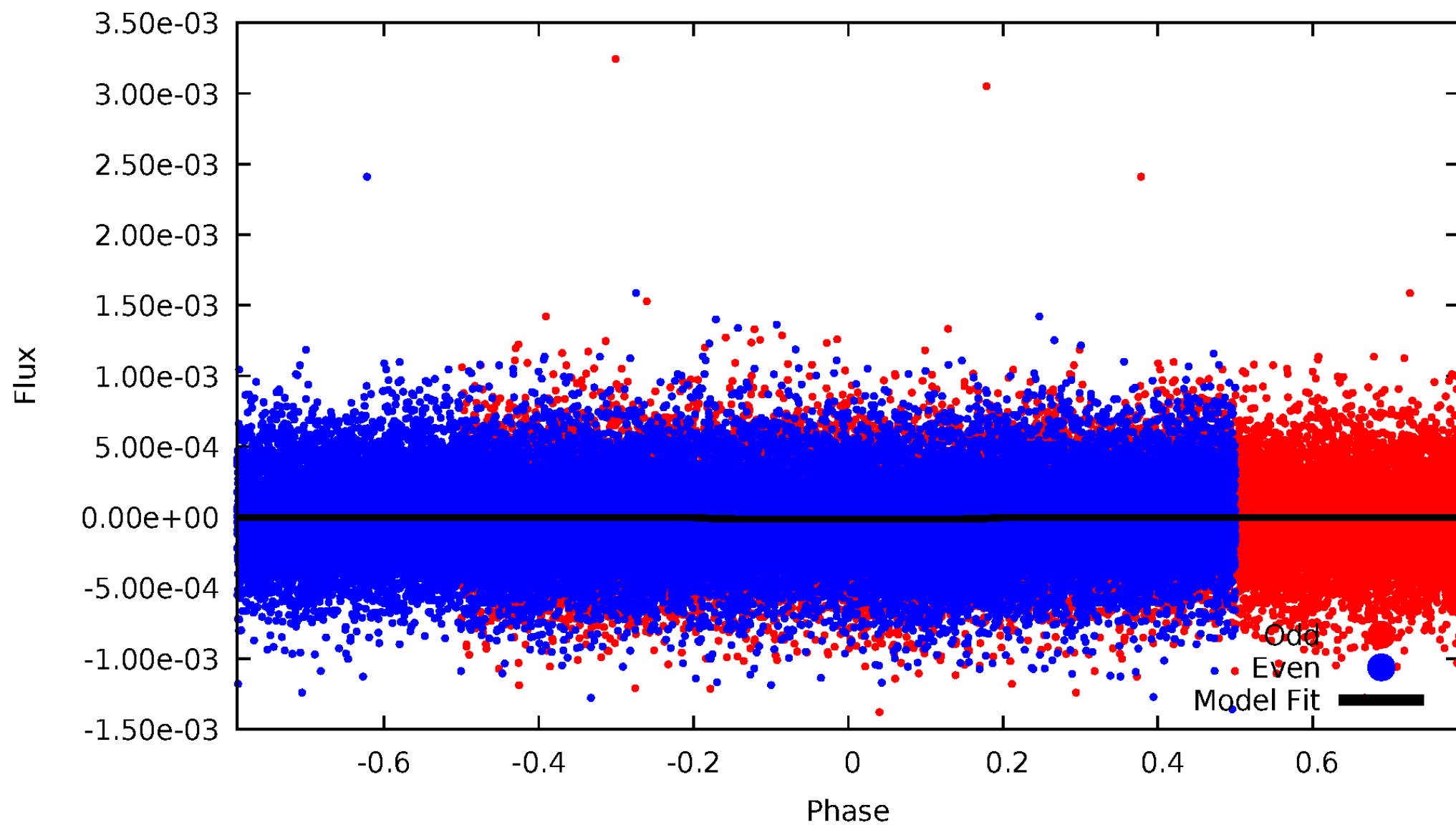


TCE 003560660-01



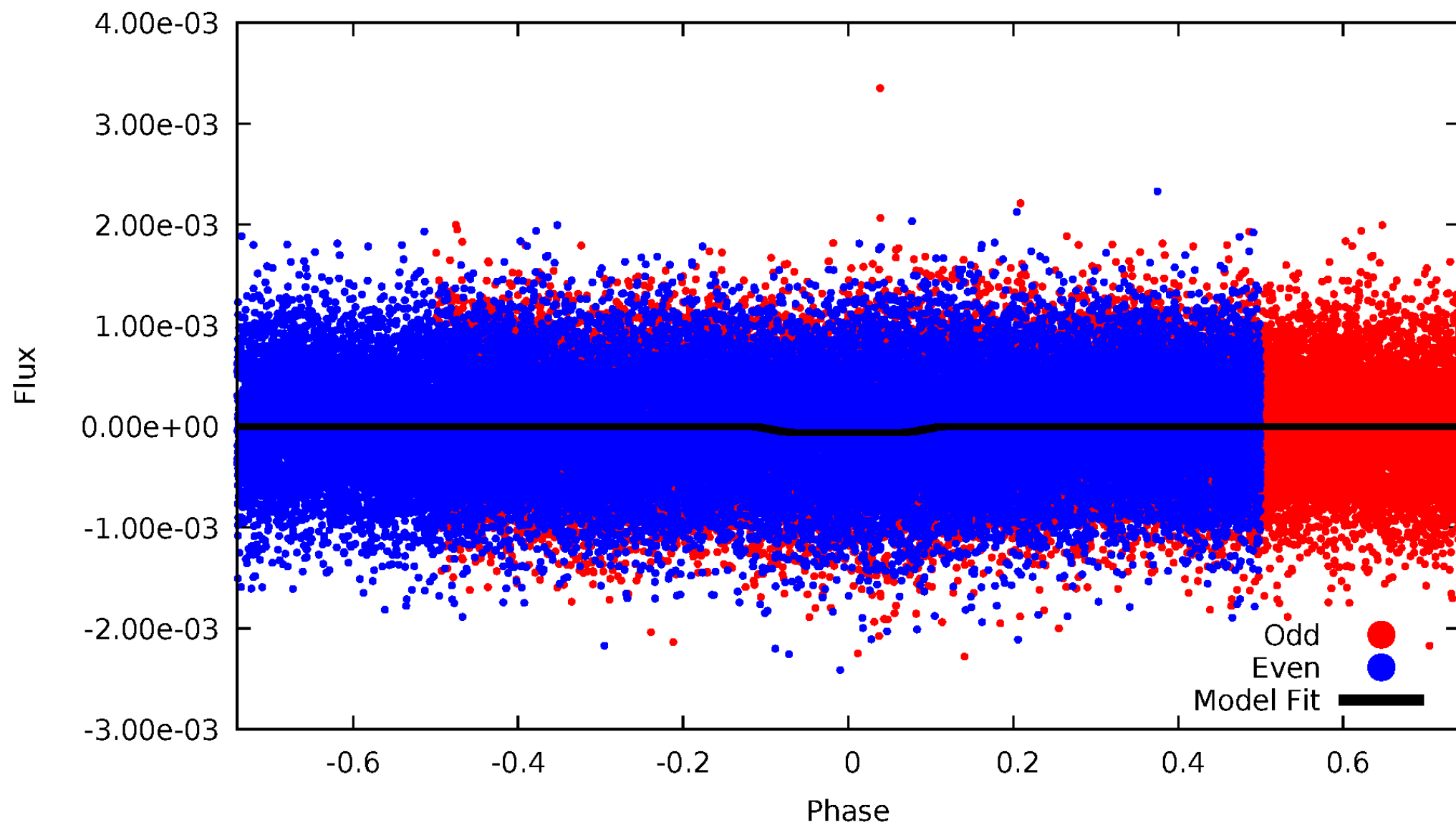
DV Odd/Even

TCE 003560660-01



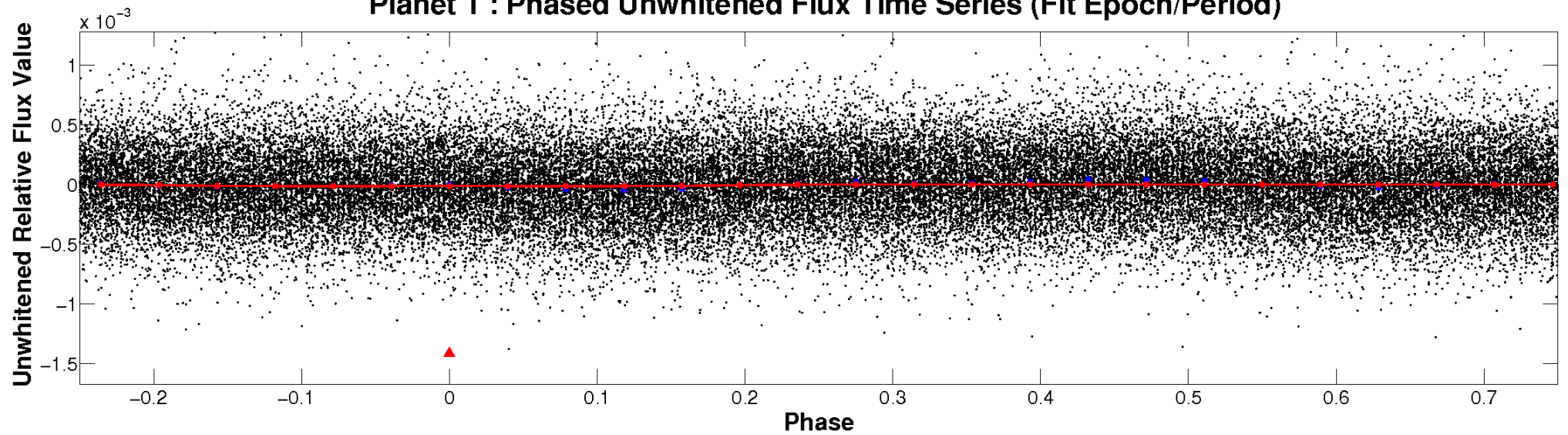
ALT Odd/Even

TCE 003560660-01

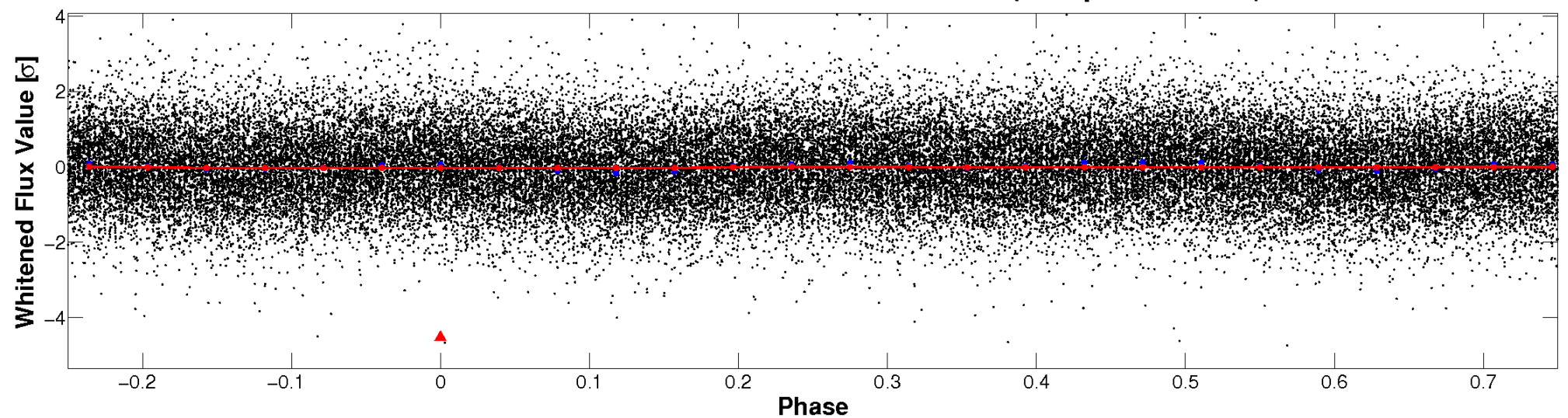


Non-Whitened Vs. Whitened Light Curve

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

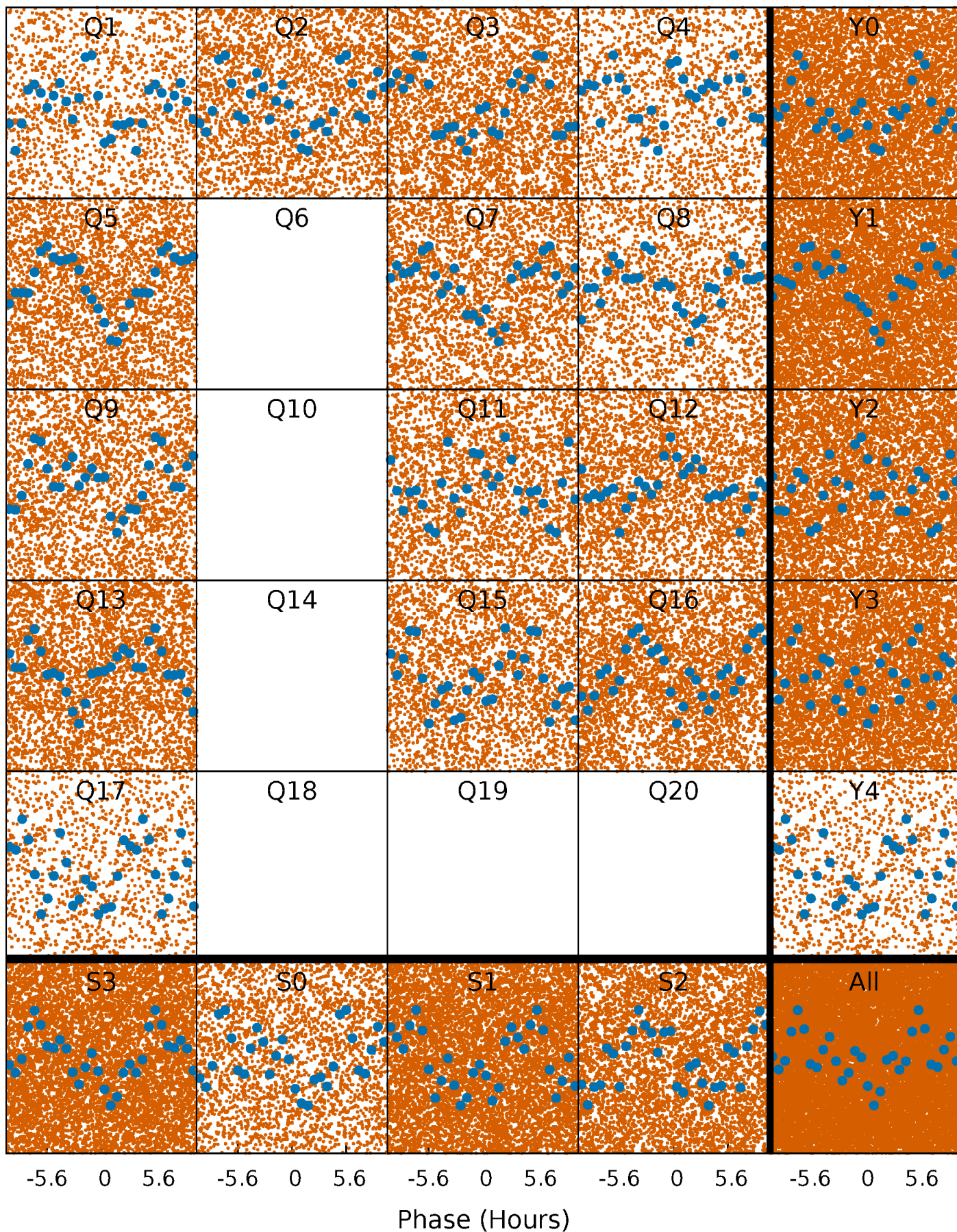


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



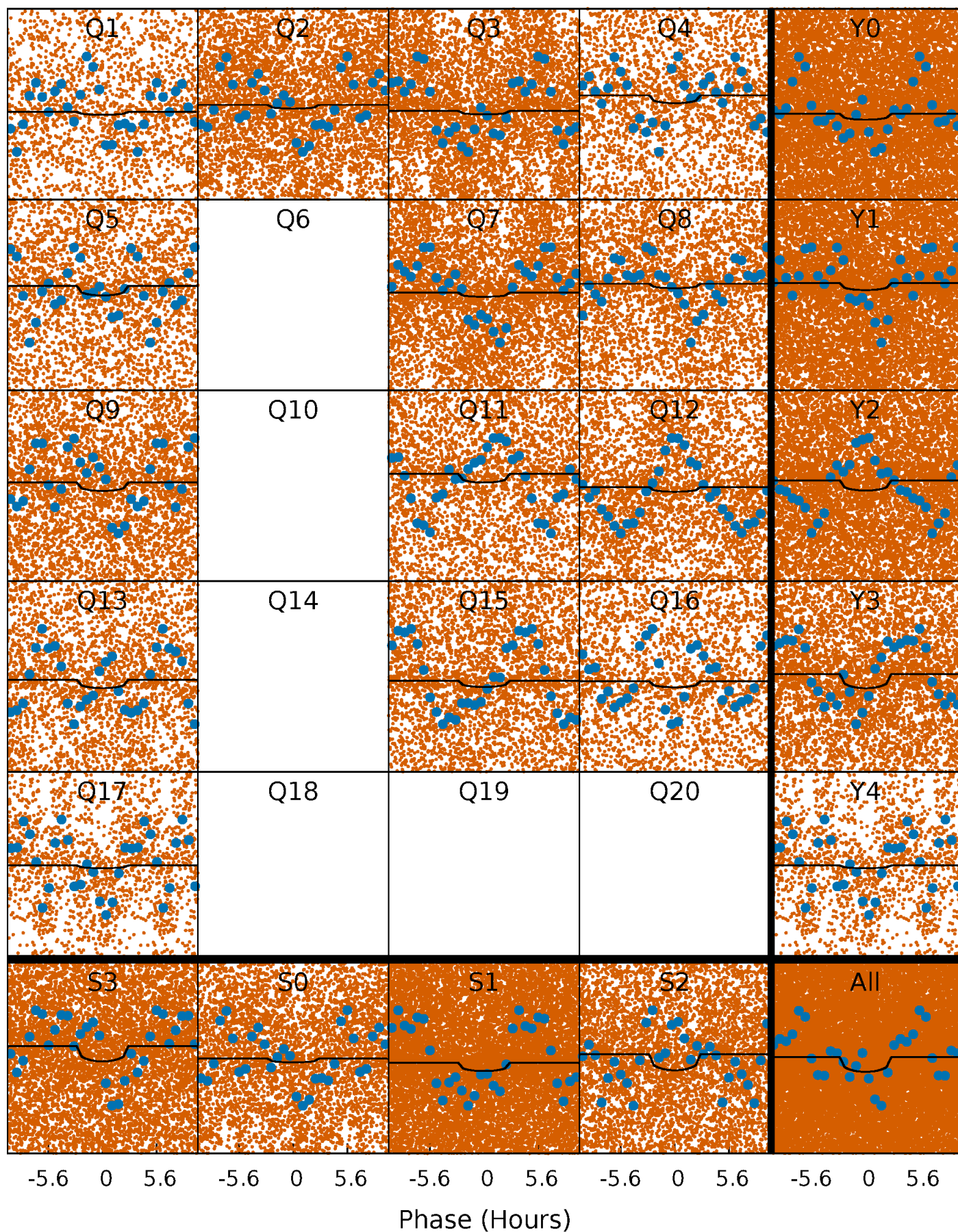
PDC Quarter-Phased Transit Curves

TCE 003560660-01 P= 0.520154 Days $T_0=131.526961$ (BKJD)



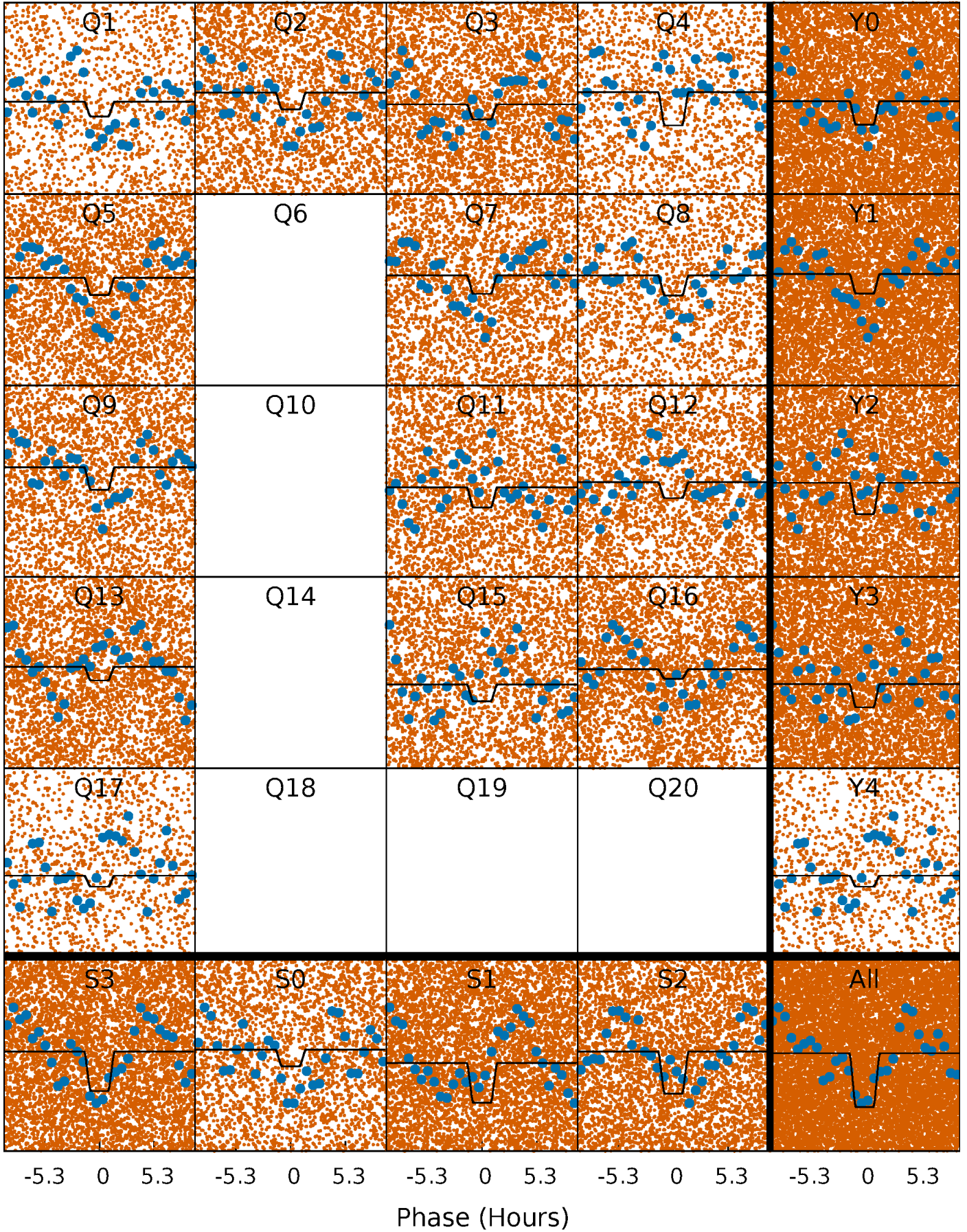
DV Quarter-Phased Transit Curves

TCE 003560660-01 P= 0.520154 Days $T_0=131.526961$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

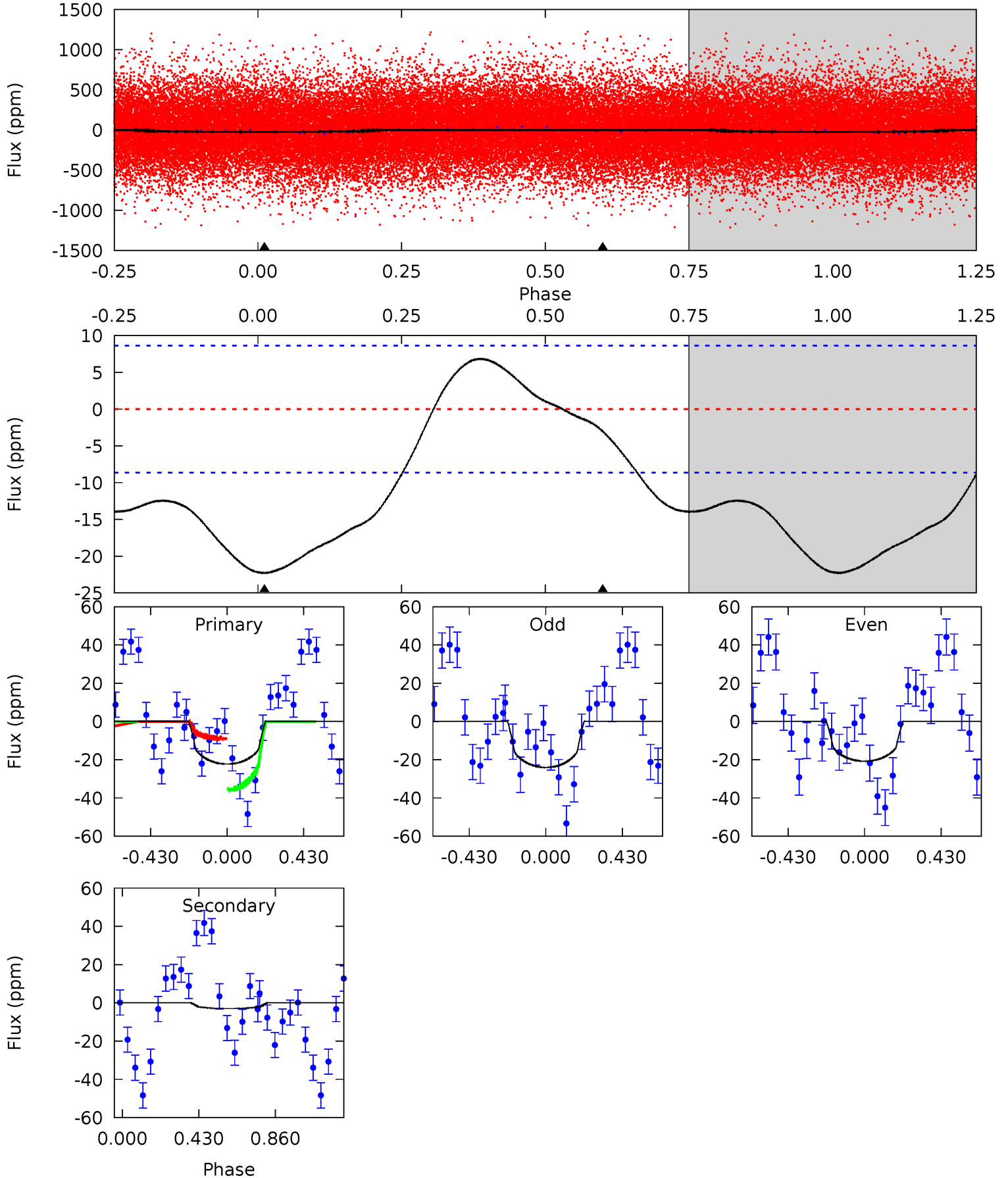
TCE 003560660-01 P= 0.520168 Days $T_0=131.565573$ (BKJD)



DV Model-Shift Uniqueness Test

003560660-01, P = 0.520154 Days, E = 131.006807 Days

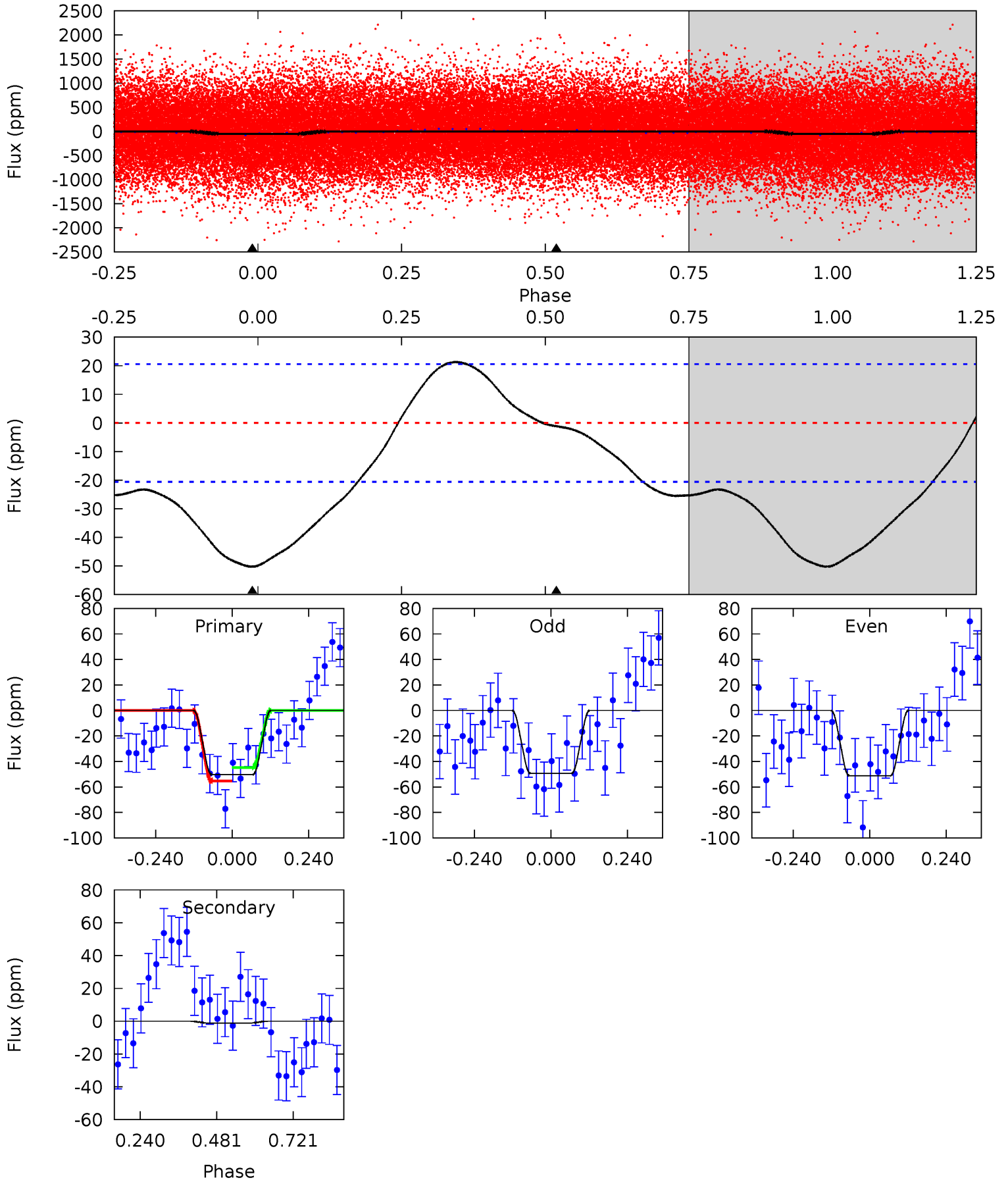
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.0	1.47	0	0	4.25	0.79	2.13	11.0	11.0	1.47	1.47	0.80	0.79	0.24	6.60



Alt Model-Shift Uniqueness Test

003560660-01, $P = 0.520168$ Days, $E = 131.045405$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	0.25	0	0	4.38	1.17	2.84	10.7	10.7	0.25	0.25	0.19	1.17	0.30	1.11



Stellar Parameters For KIC 003560660

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7872^{+70}_{-86}	$3.985^{+0.143}_{-0.117}$	$-0.260^{+0.150}_{-0.150}$	$2.201^{+0.456}_{-0.415}$	$1.705^{+0.206}_{-0.150}$	$0.225^{+0.147}_{-0.083}$
	+1%/-1%	+4%/-3%	+58%/-58%	+21%/-19%	+12%/-9%	+65%/-37%
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 003560660-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3 ± 2	$1.31^{+1.17}_{-0.86}$	5826^{+281}_{-287}	-3988^{+10621}_{-741}	$0.181^{+1.350}_{-0.149}$
Alt.	-1 ± 5	$1.95^{+1.30}_{-1.13}$	5821^{+300}_{-281}	-4715^{+2090}_{-614}	$0.026^{+0.267}_{-0.200}$

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

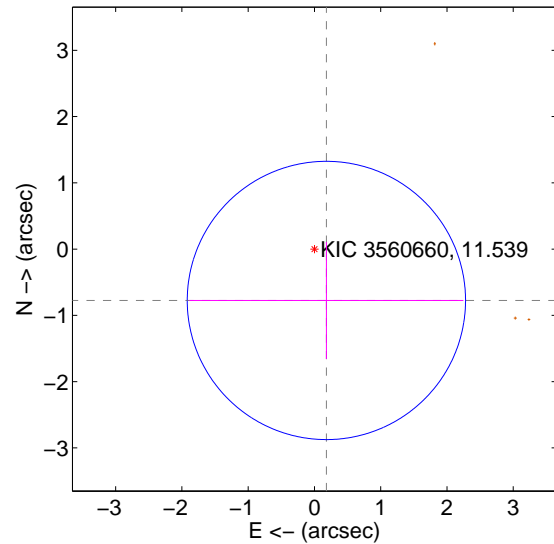
Supplemental centroid analysis for 003560660-01. **Kepler magnitude: 11.54.** Transit SNR 4.83

There are 0 quarters with good PRF difference image offsets

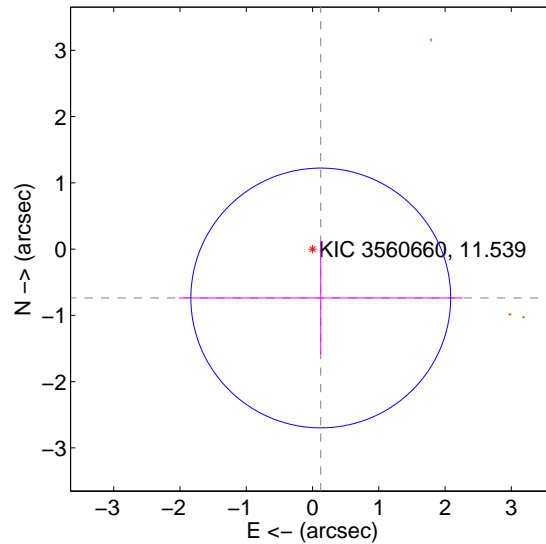
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.796 ± 0.700	1.14	-0.180 ± 2.068	-0.775 ± 0.883
PRF-fit source offset from KIC position	0.748 ± 0.653	1.15	-0.124 ± 2.142	-0.738 ± 0.851
photometric centroid source offset	1.20 ± 0.61	1.96	1.15 ± 0.60	-0.36 ± 0.70

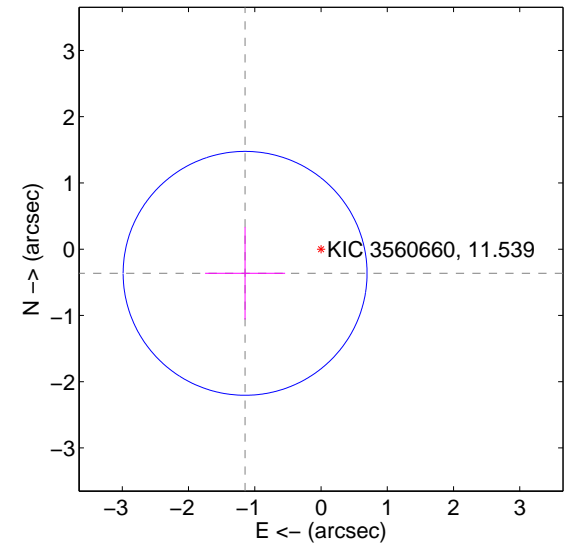
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

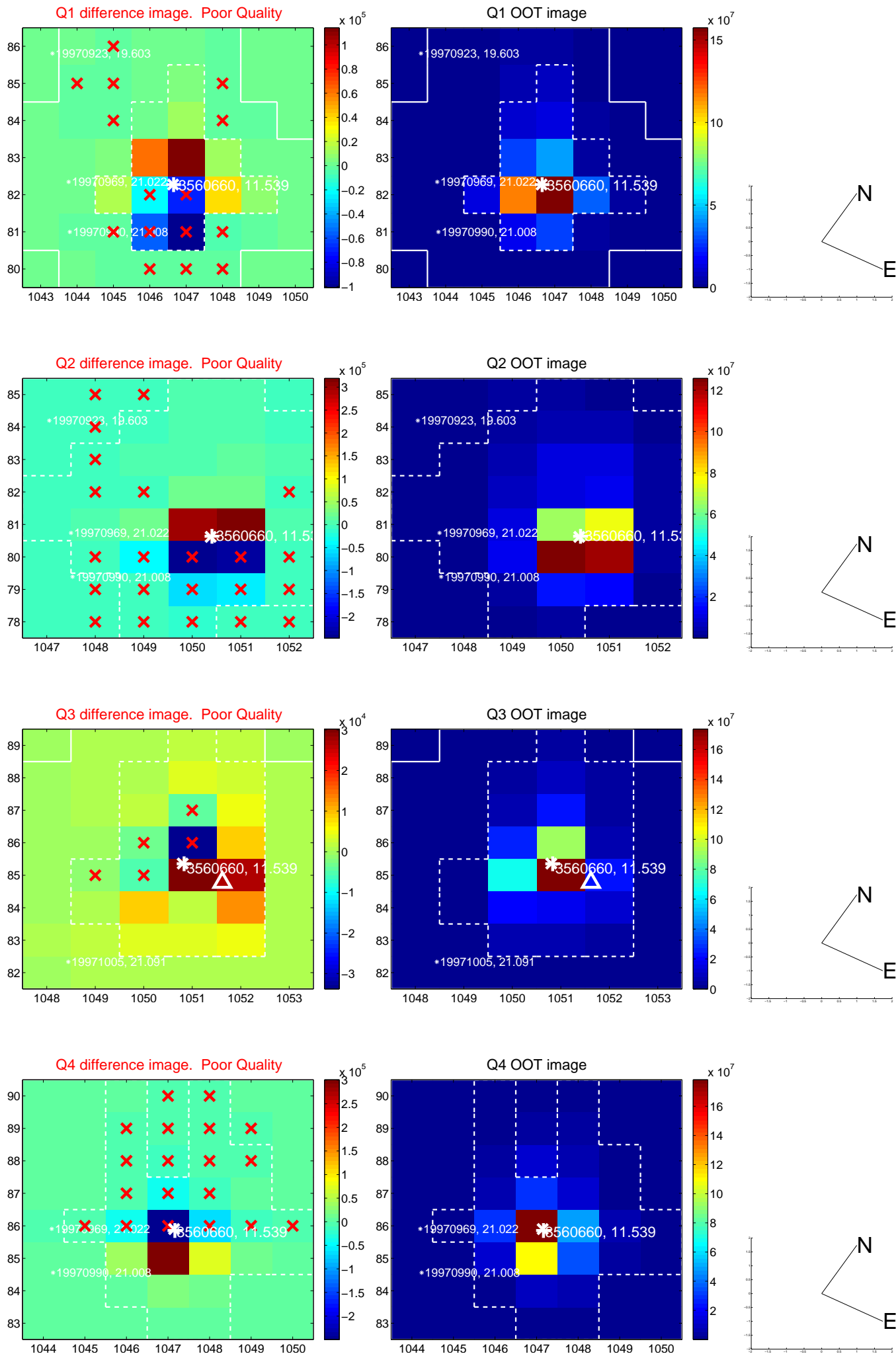


offset from photometric centroids

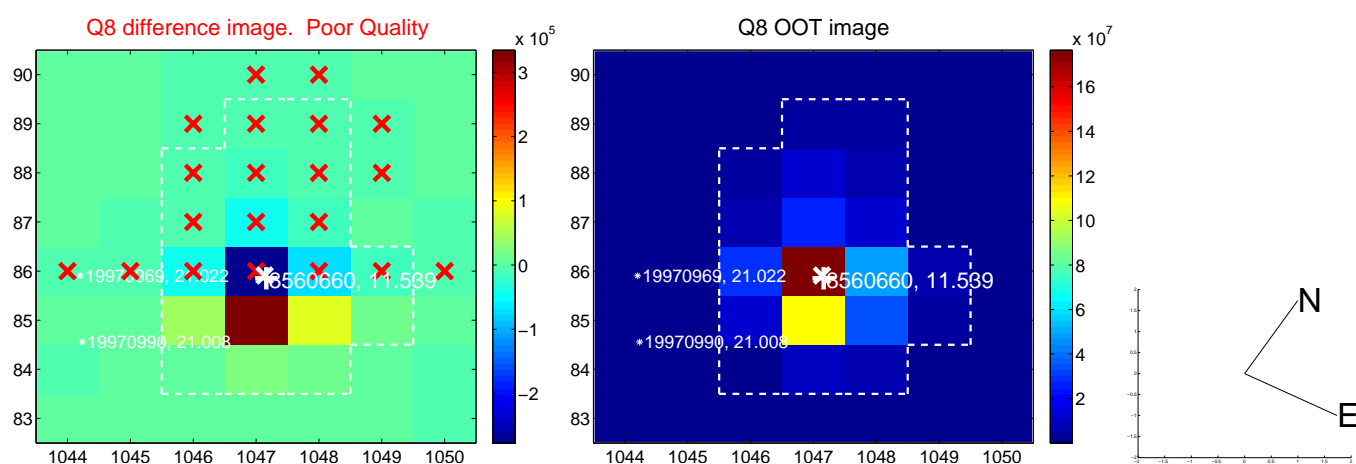
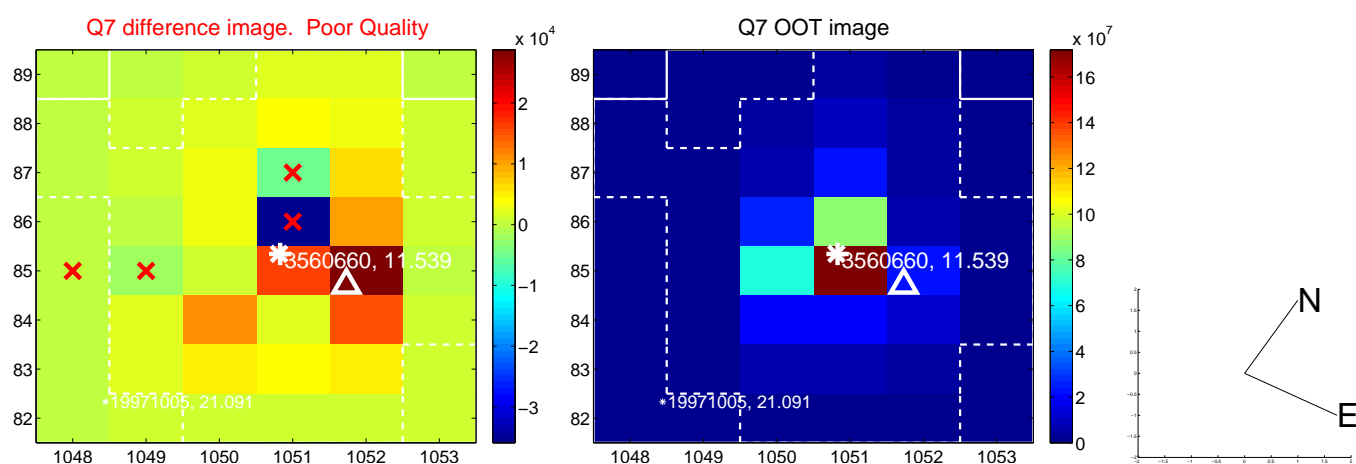
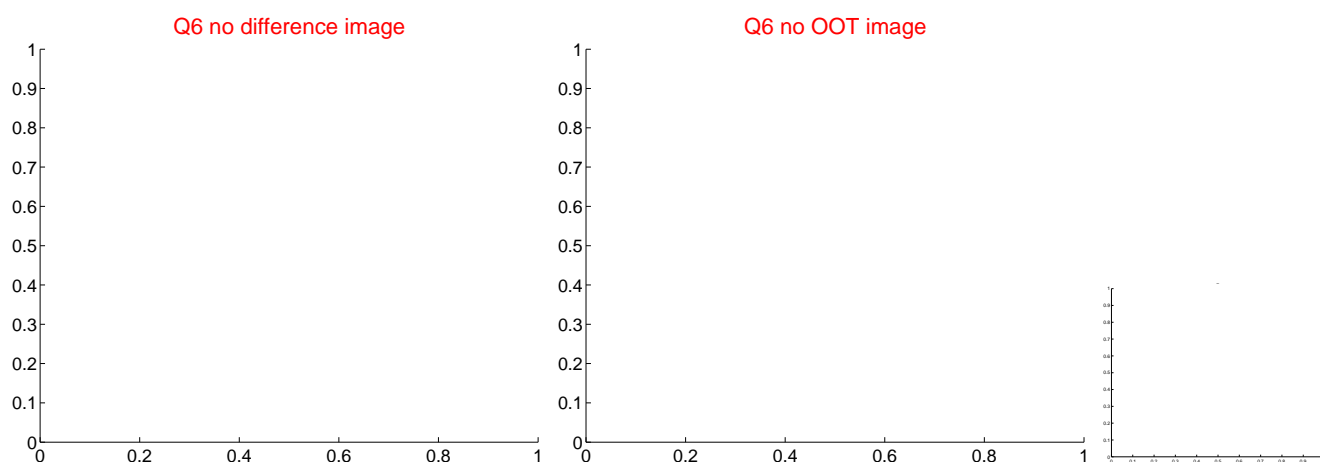
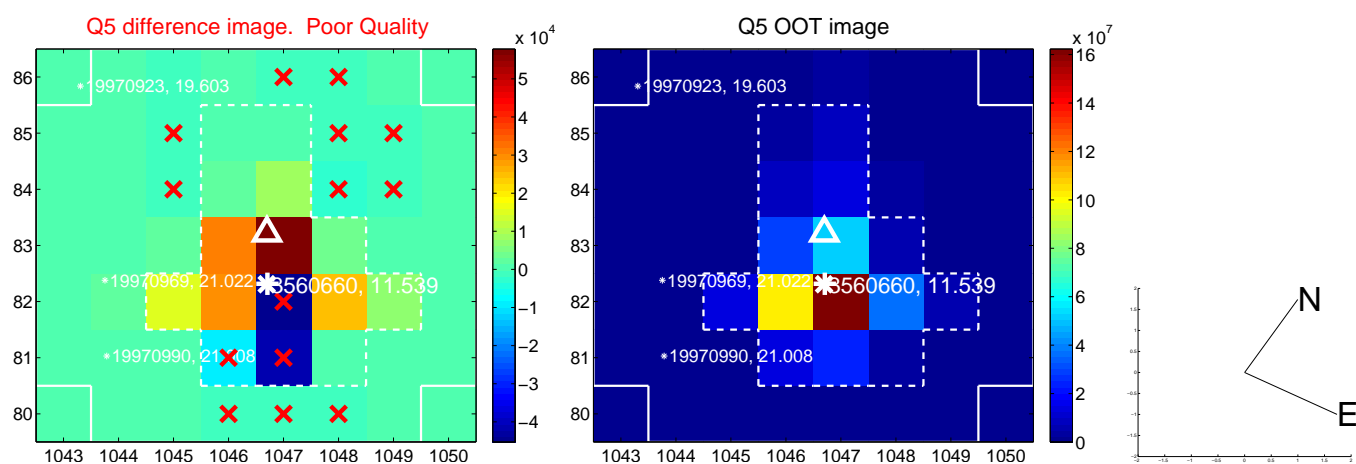


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

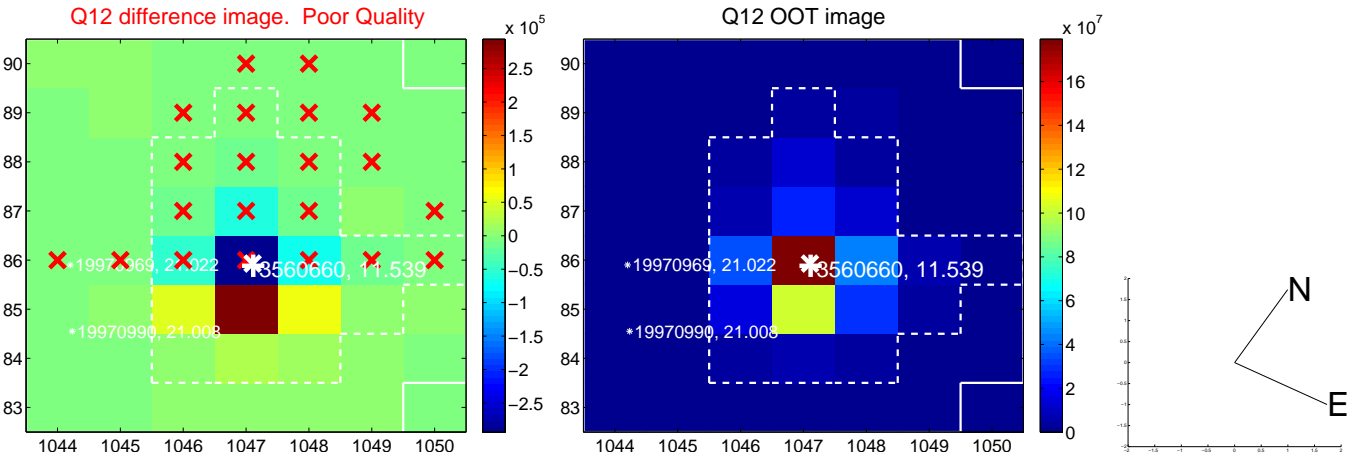
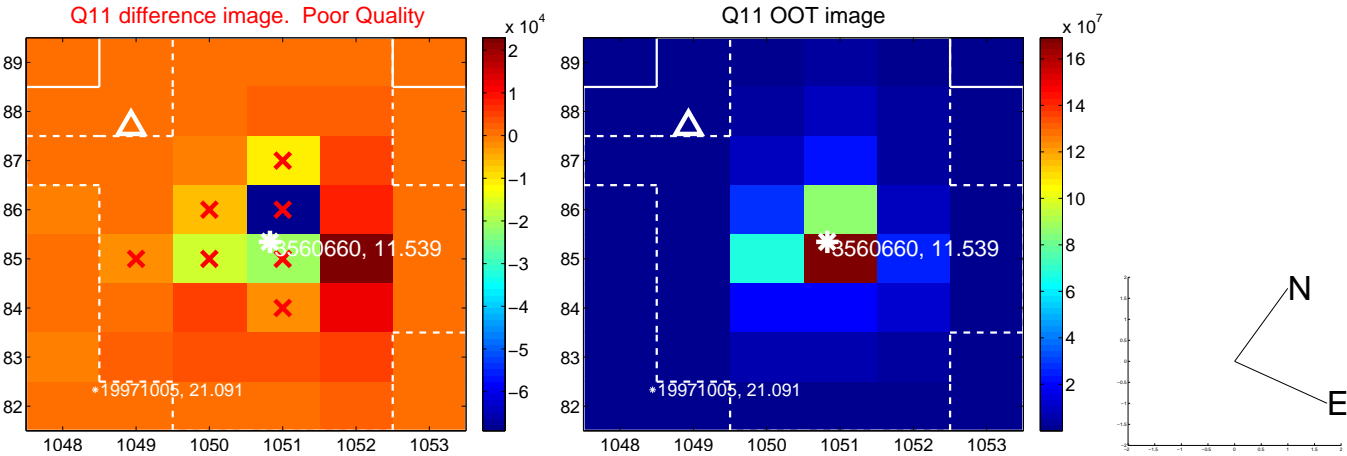
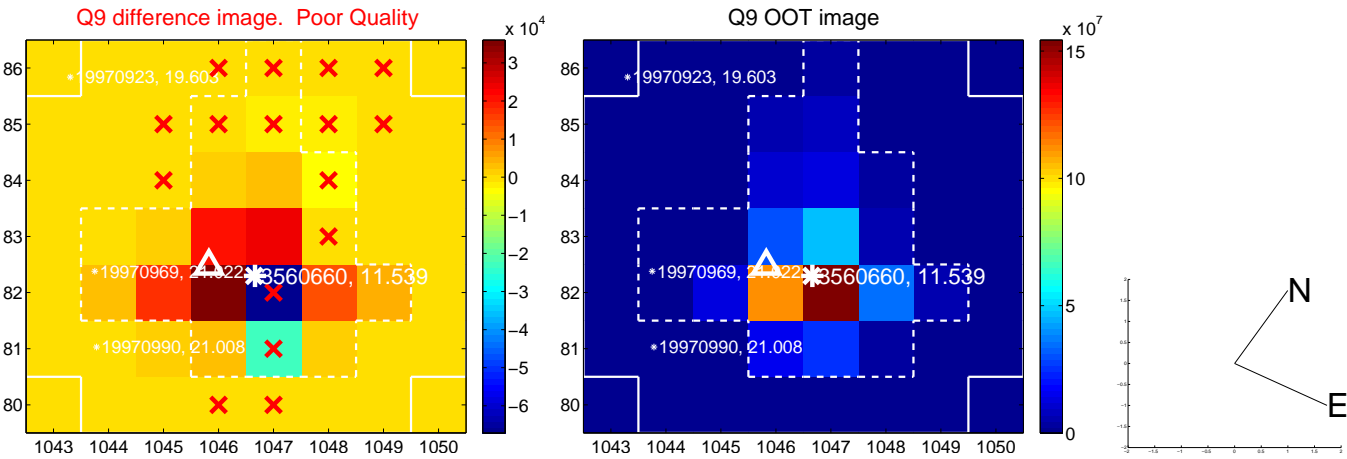
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



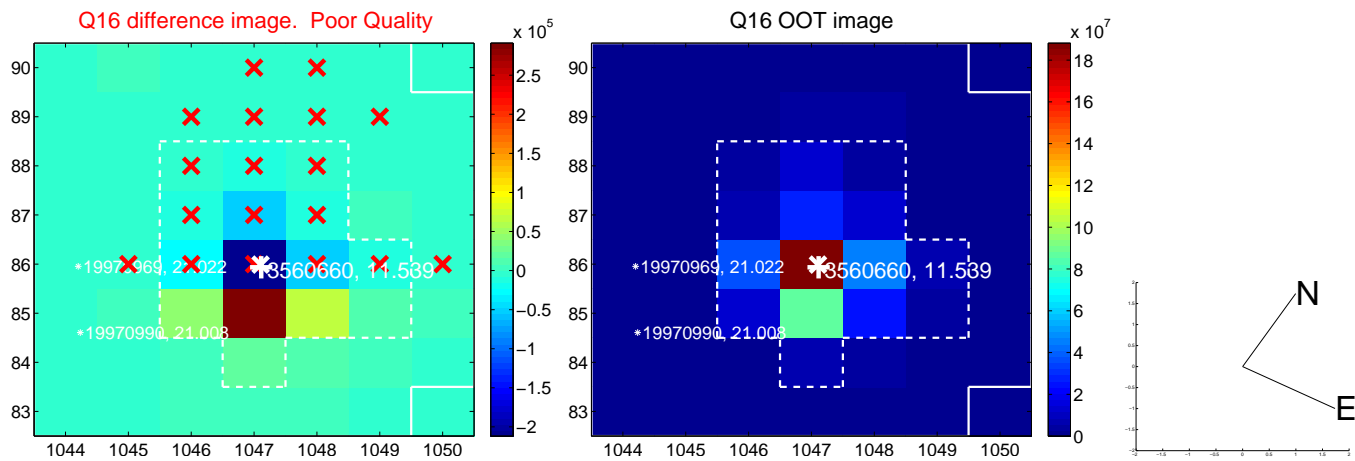
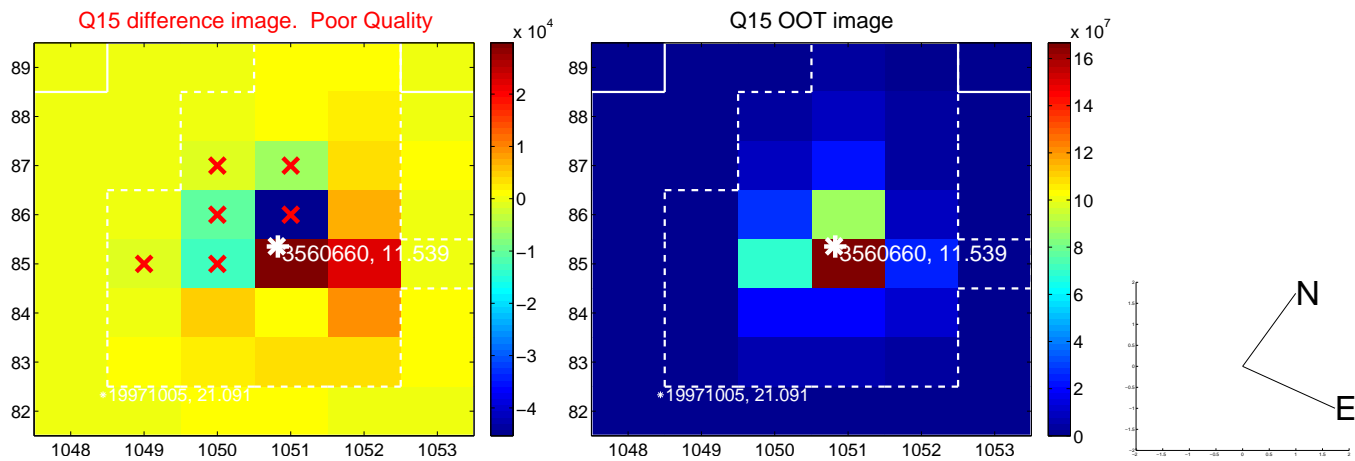
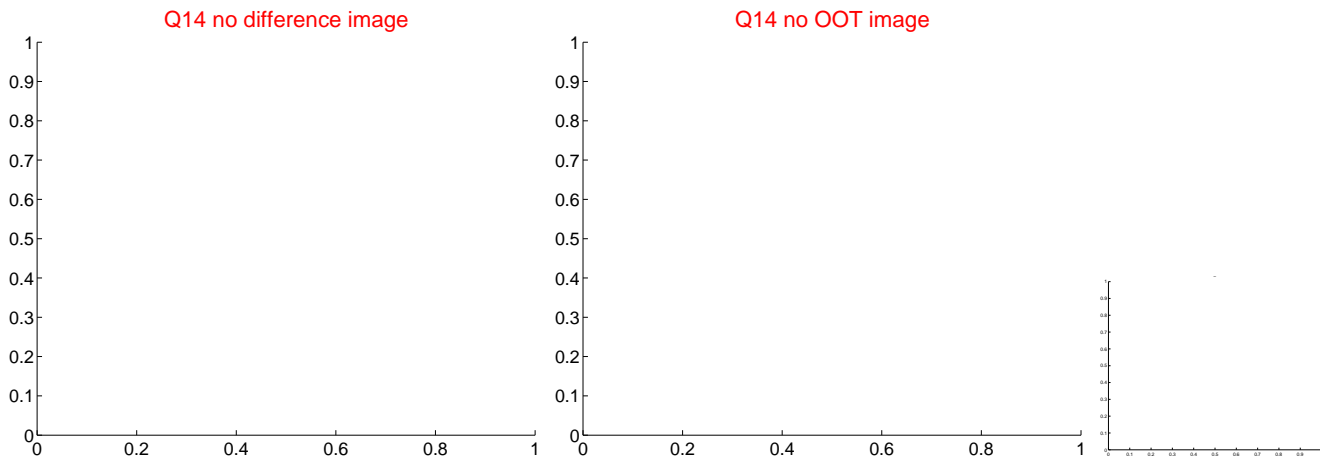
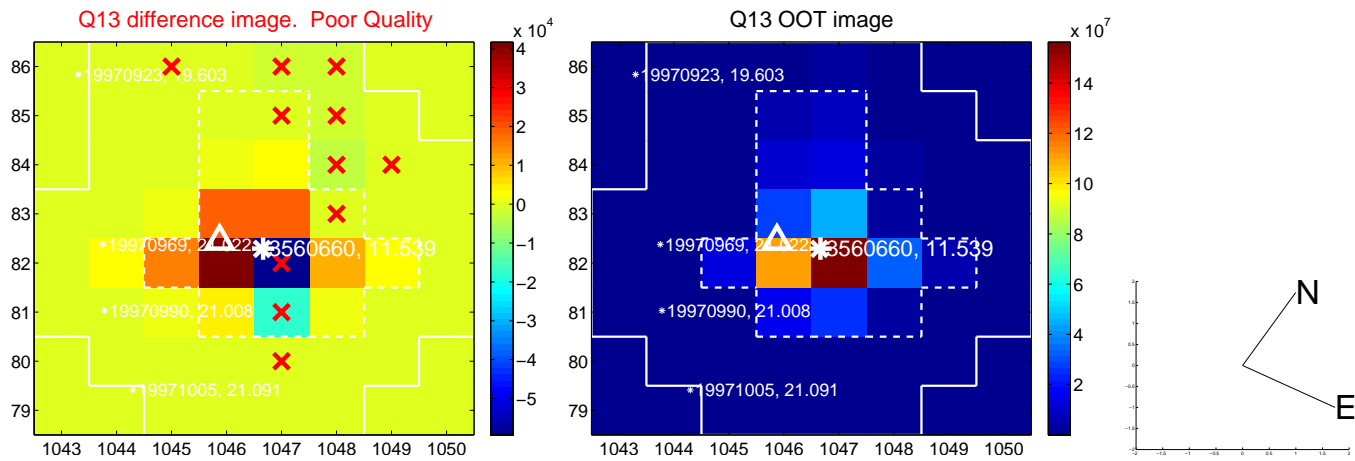
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



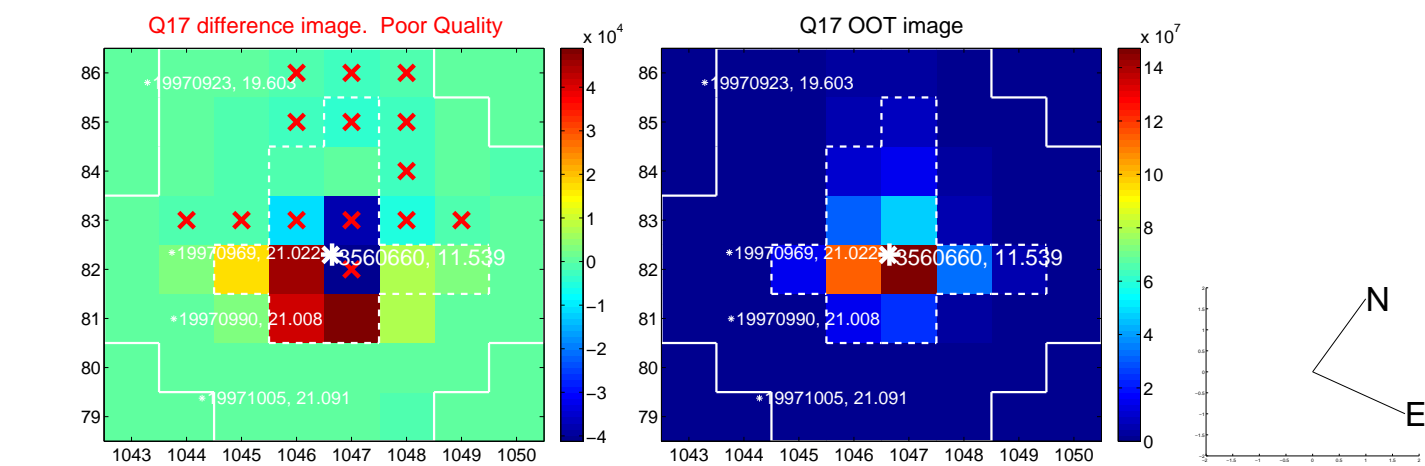
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



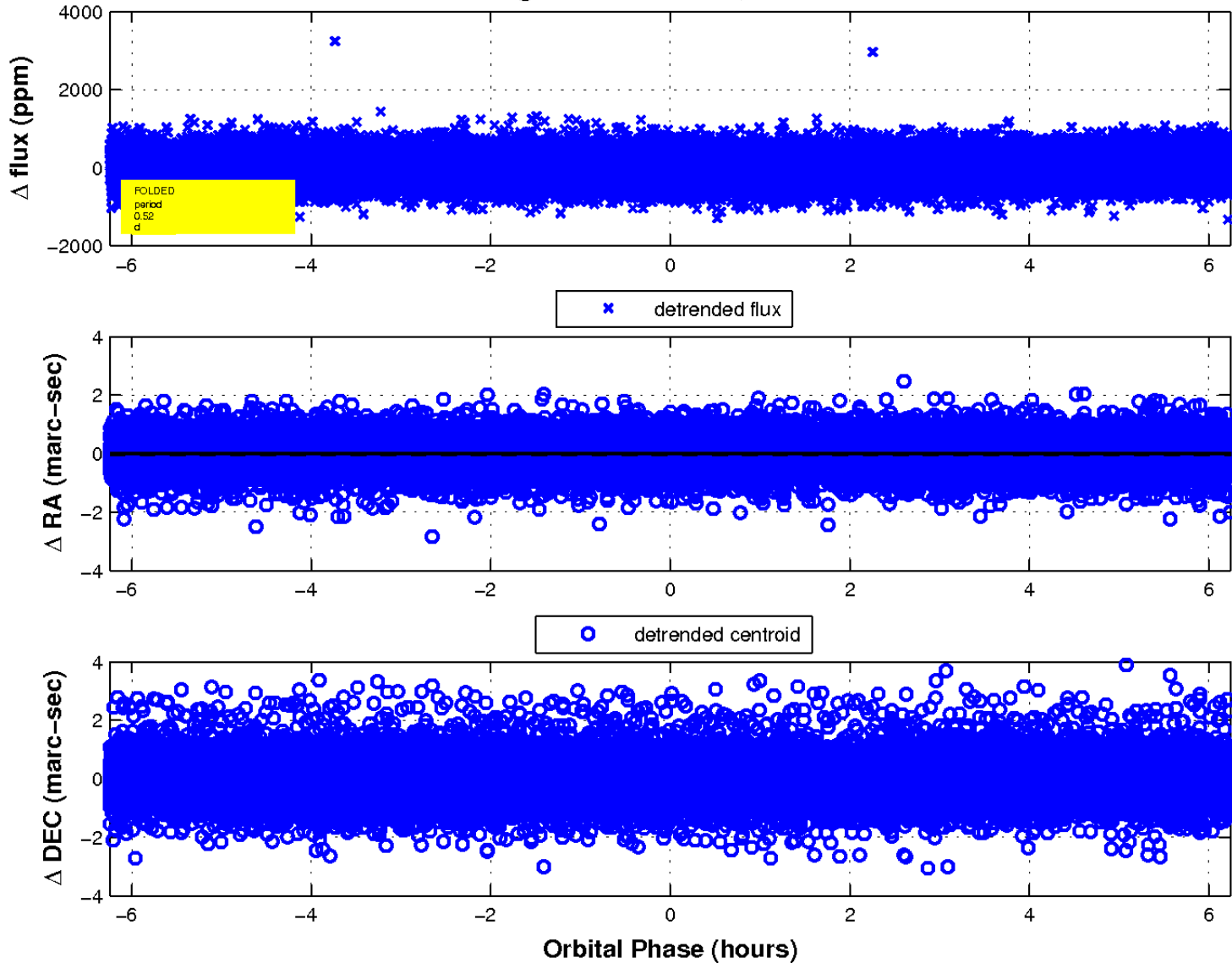
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fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

