

KIC 008265082

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})
008265082-01	OBS	No	0.718237	132.227829	42.2	8.619	7.4	8.6	1.00	5917	0.65	4209.95

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008265082-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

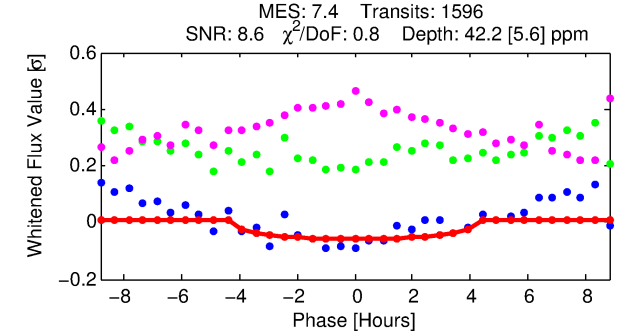
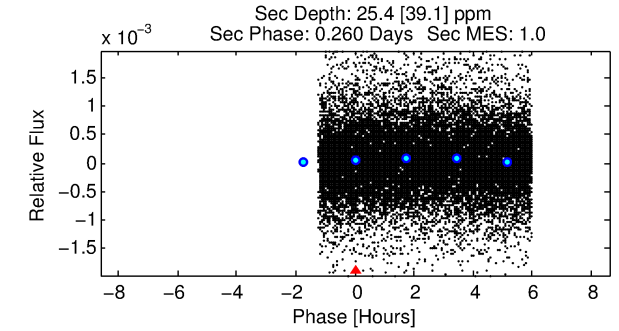
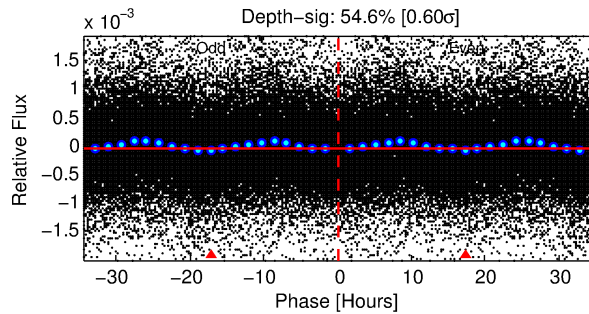
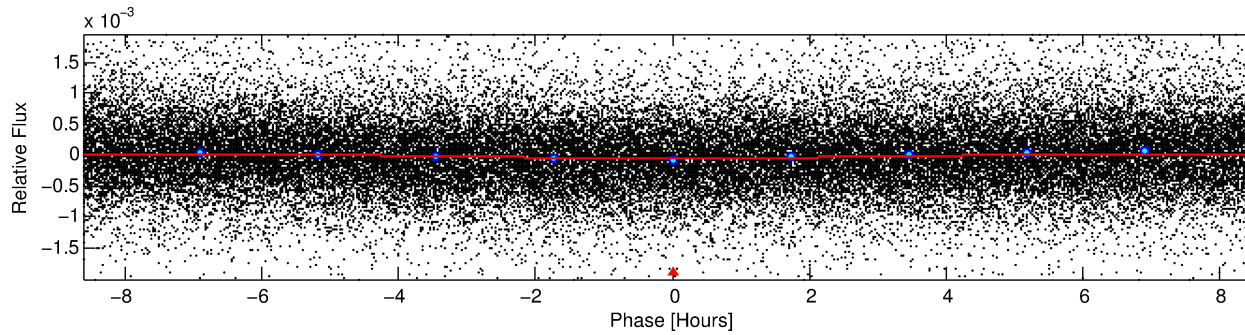
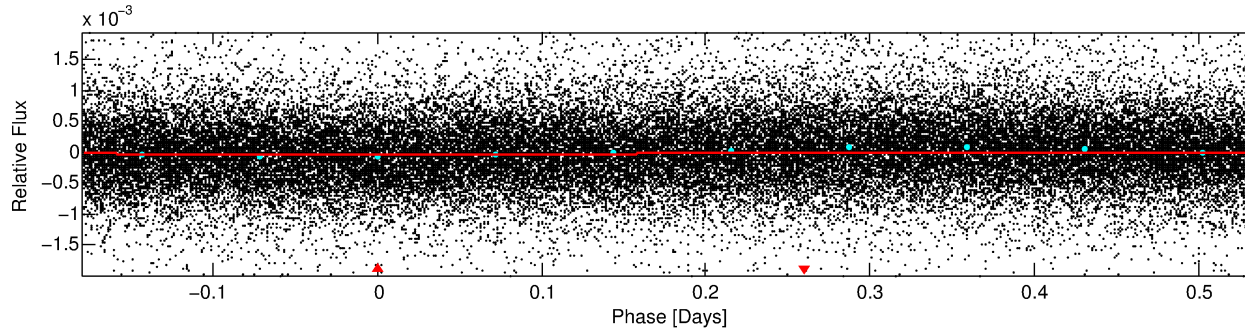
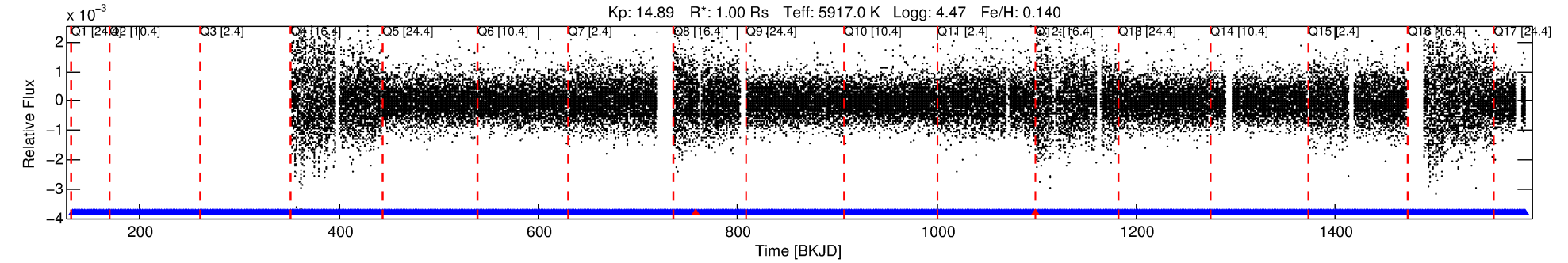
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008265082-01

No Significant Match Found

DV One-Page Summary

KIC: 8265082 Candidate: 1 of 1 Period: 0.718 d



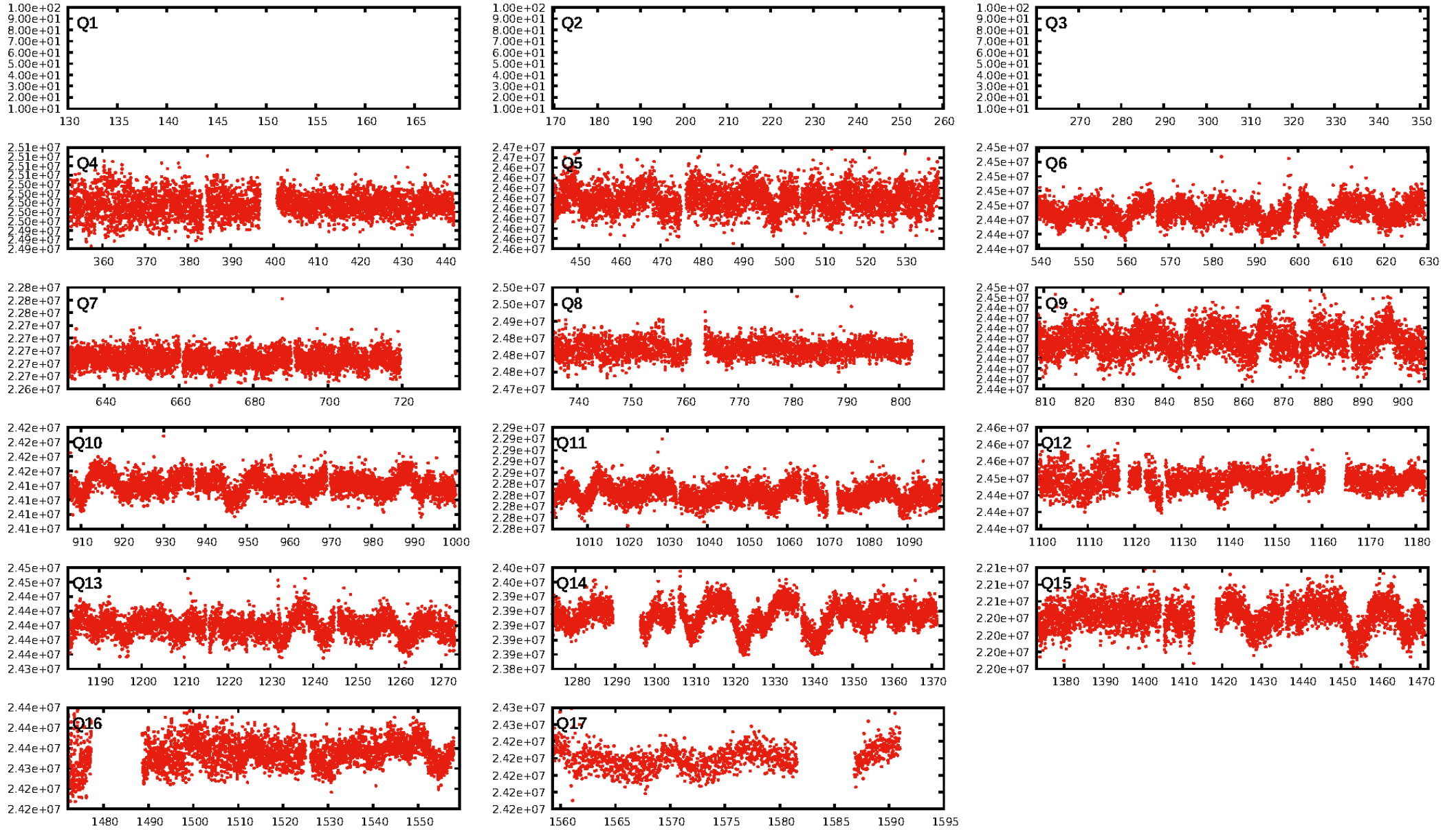
DV Fit Results:

Period = 0.71824 [0.00002] d
Epoch = 132.2278 [0.0103] BKJD
Rp/R* = 0.0059 [0.0044]
a/R* = 1.00 [0.01]
b = 0.25 [12.42]
Seff = 4209.95 [1652.65]
Teff = 2054 [202] K
Rp = 0.65 [0.51] Re
a = 0.0162 [0.0040] AU
Ag = 8.66 [18.72] [0.41 σ]
Teffp = 5447 [2910] K [1.16 σ]

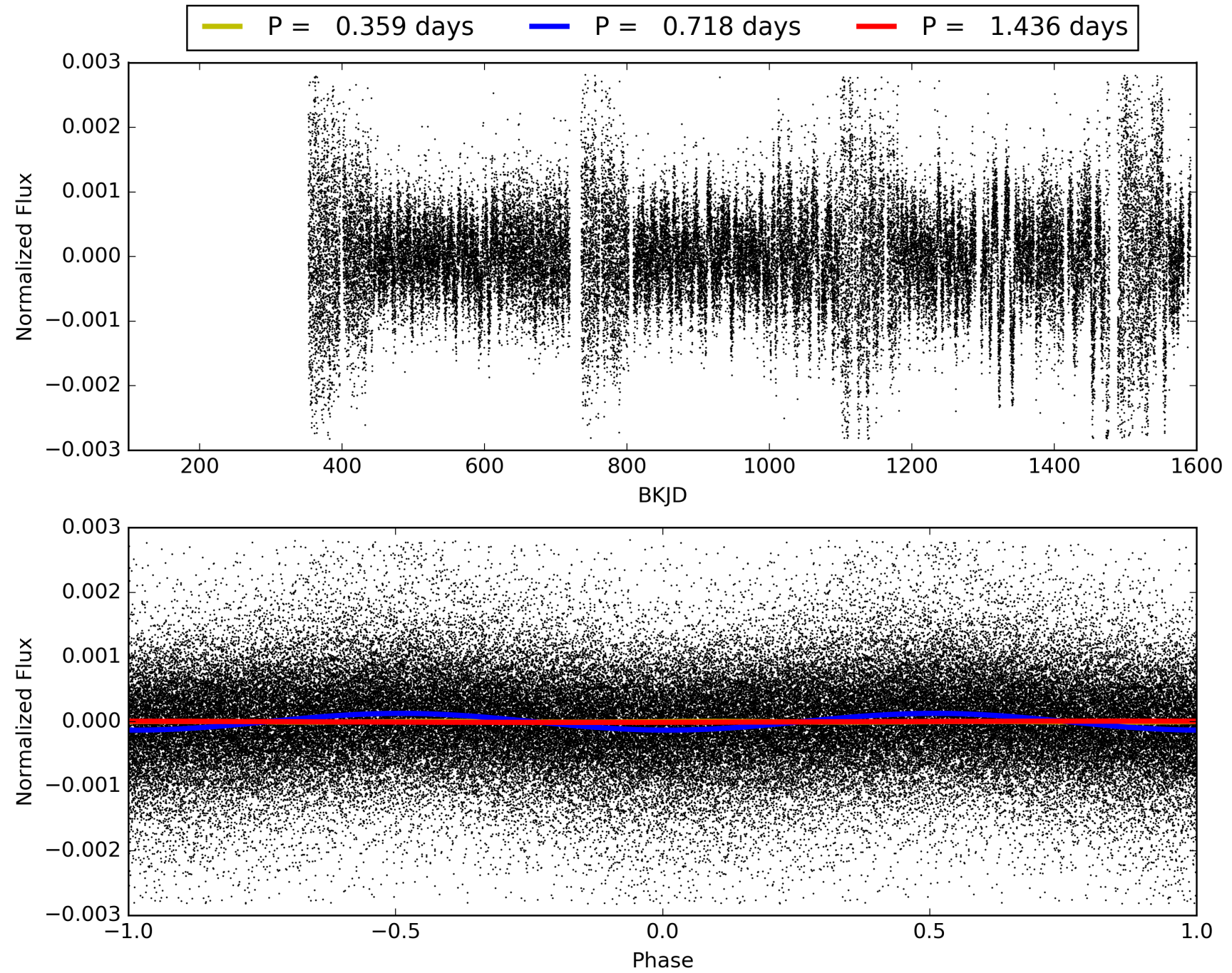
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1555/1557]
GhostDiagnostic-chr: -0.1404
Centroid-sig: 0.0%
Centroid-so: 25.935 arcsec [15.63 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [14/14]

TCE 008265082-01, PDC Light Curves

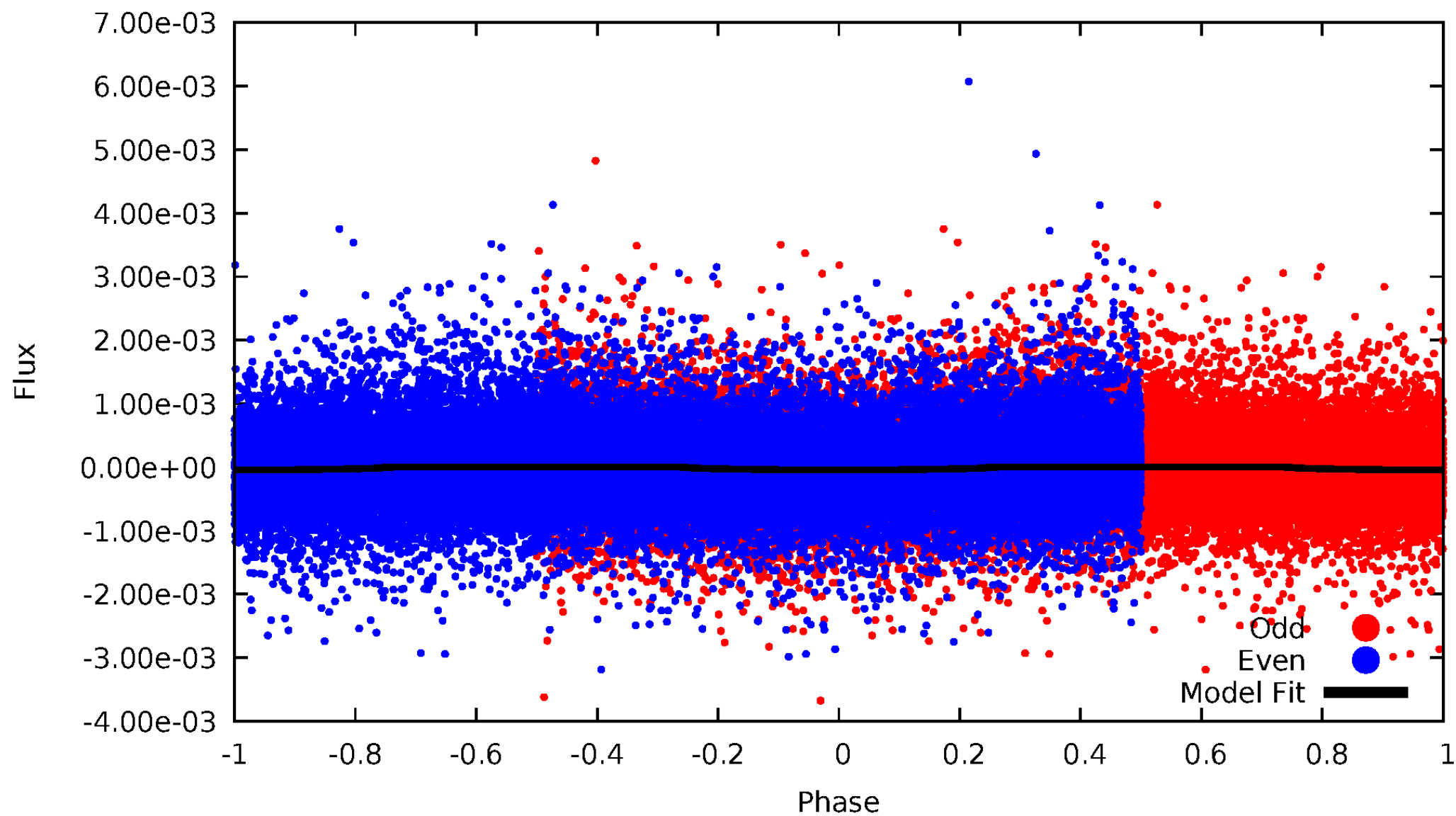


TCE 008265082-01



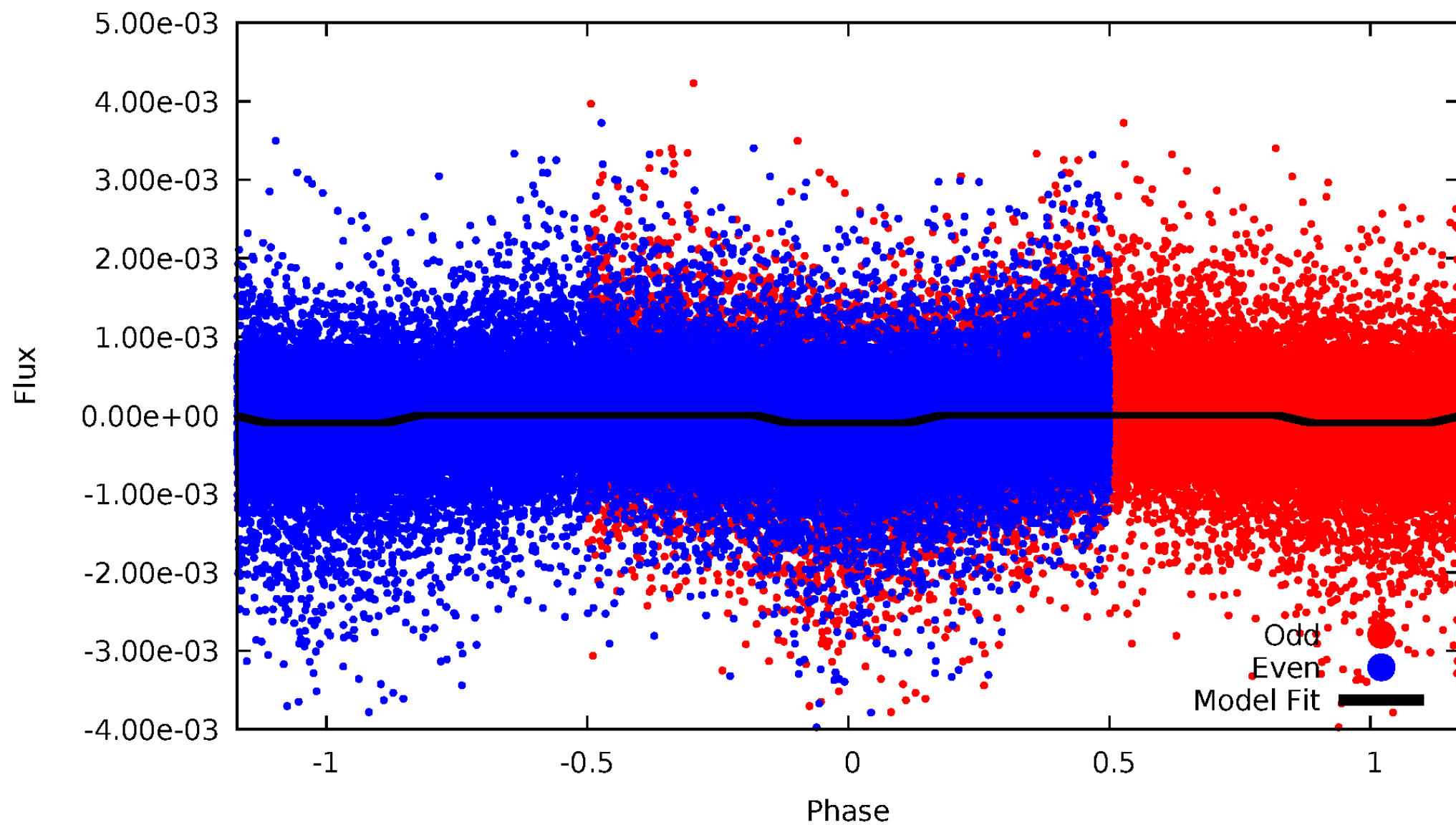
DV Odd/Even

TCE 008265082-01



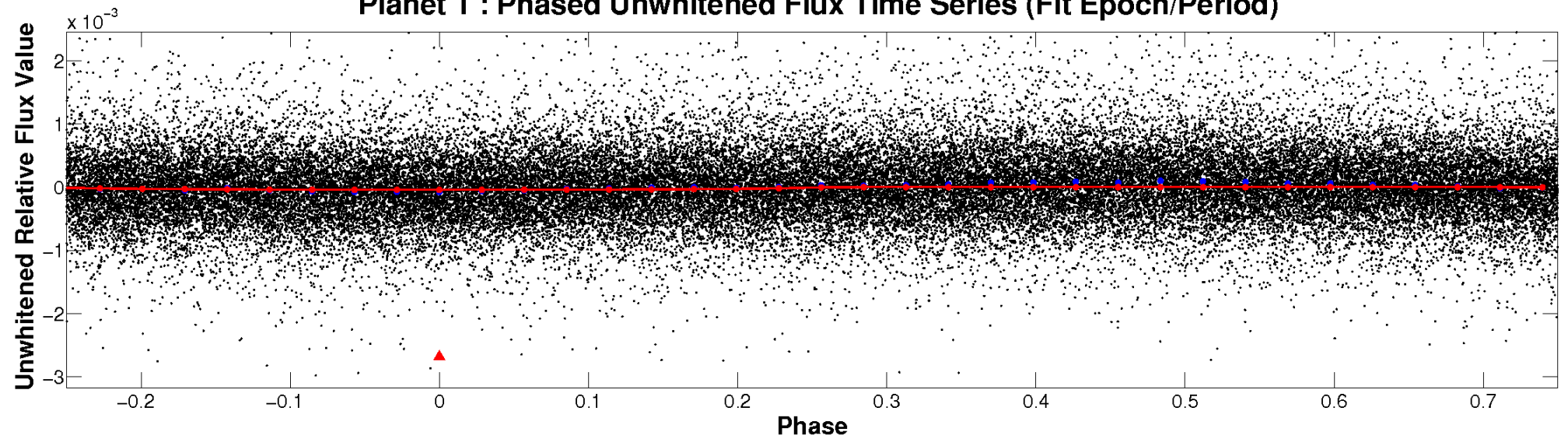
ALT Odd/Even

TCE 008265082-01

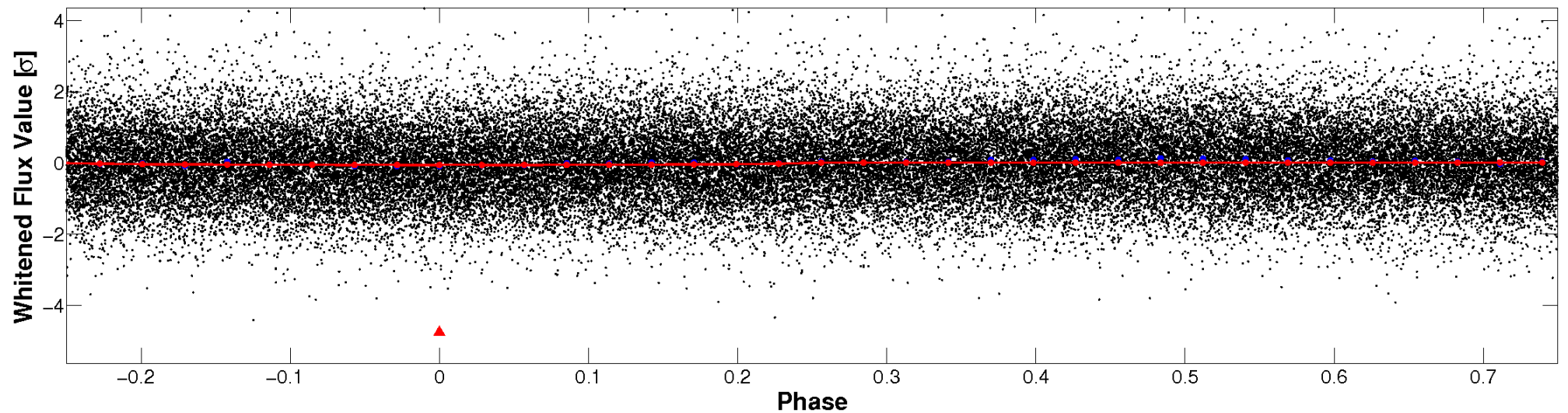


Non-Whitened Vs. Whitened Light Curve

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

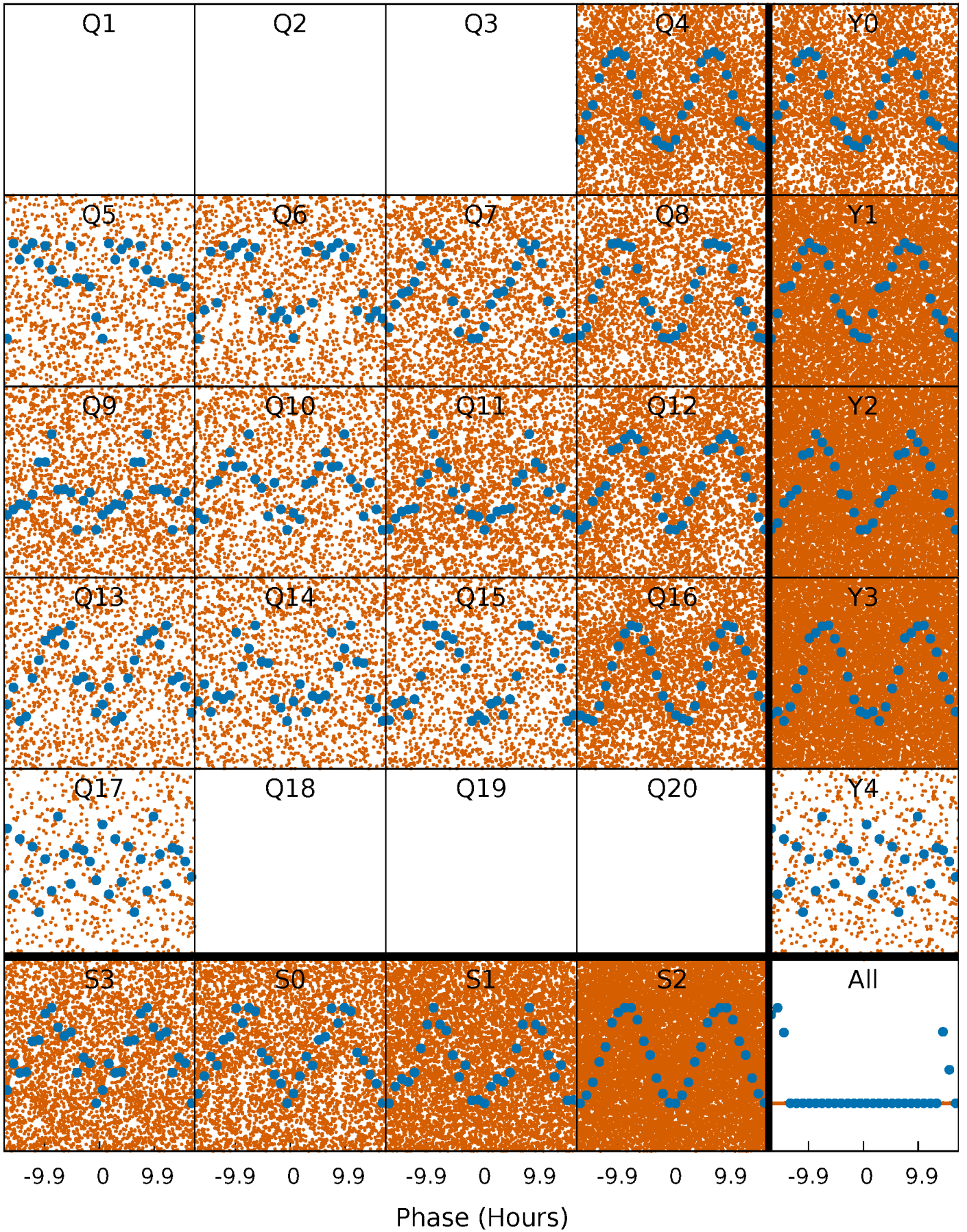


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



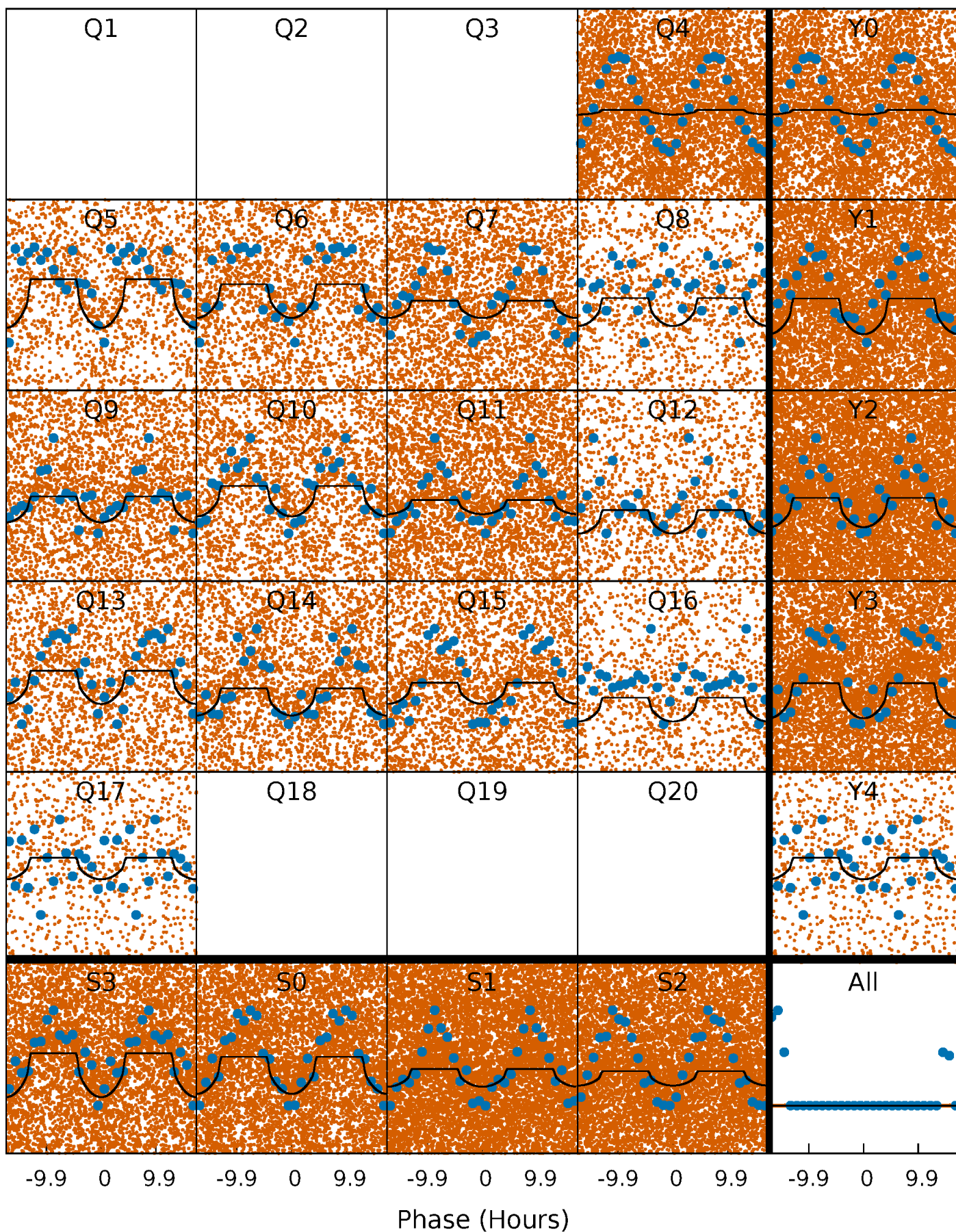
PDC Quarter-Phased Transit Curves

TCE 008265082-01 P= 0.718237 Days $T_0=132.227829$ (BKJD)



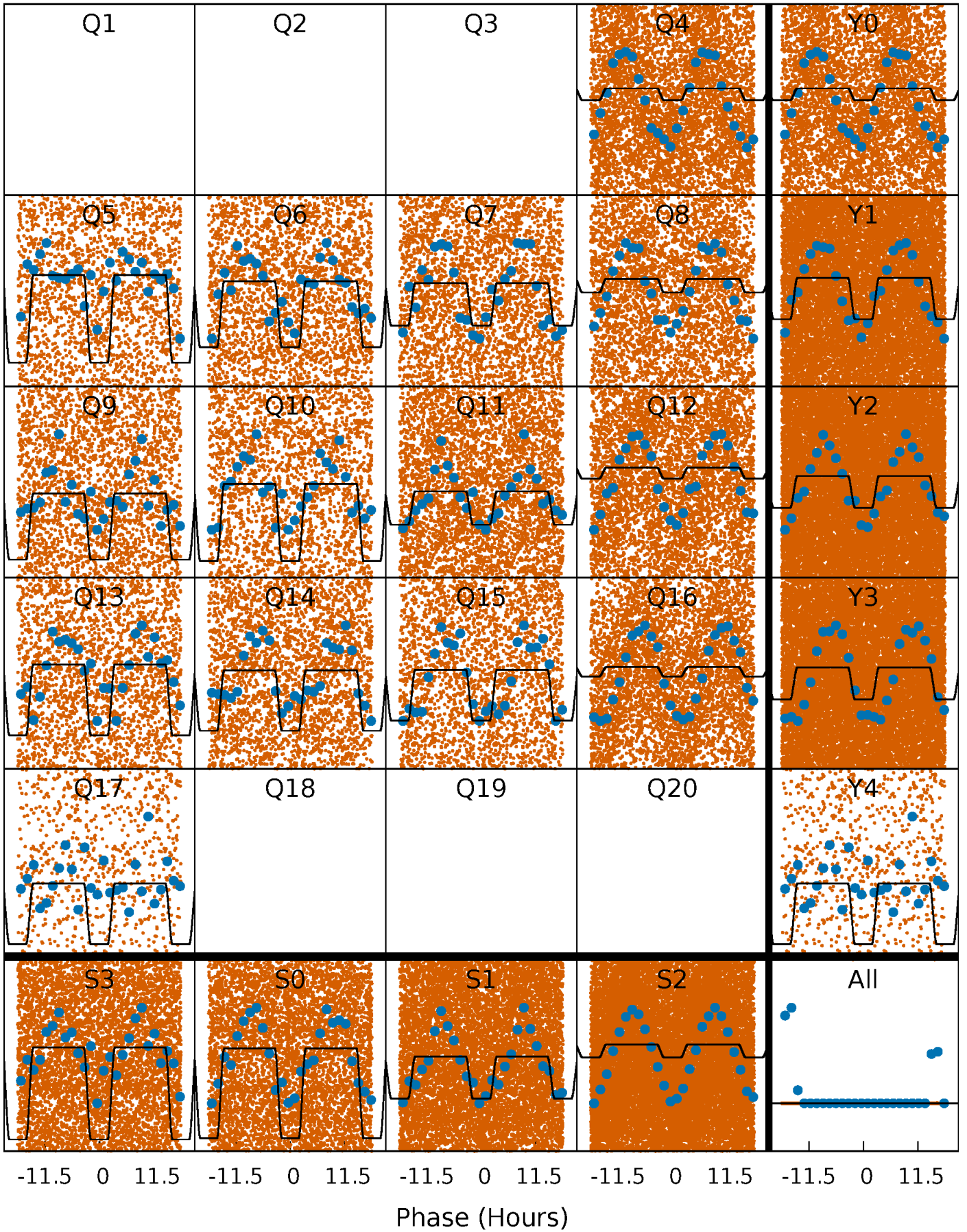
DV Quarter-Phased Transit Curves

TCE 008265082-01 P= 0.718237 Days $T_0=132.227829$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

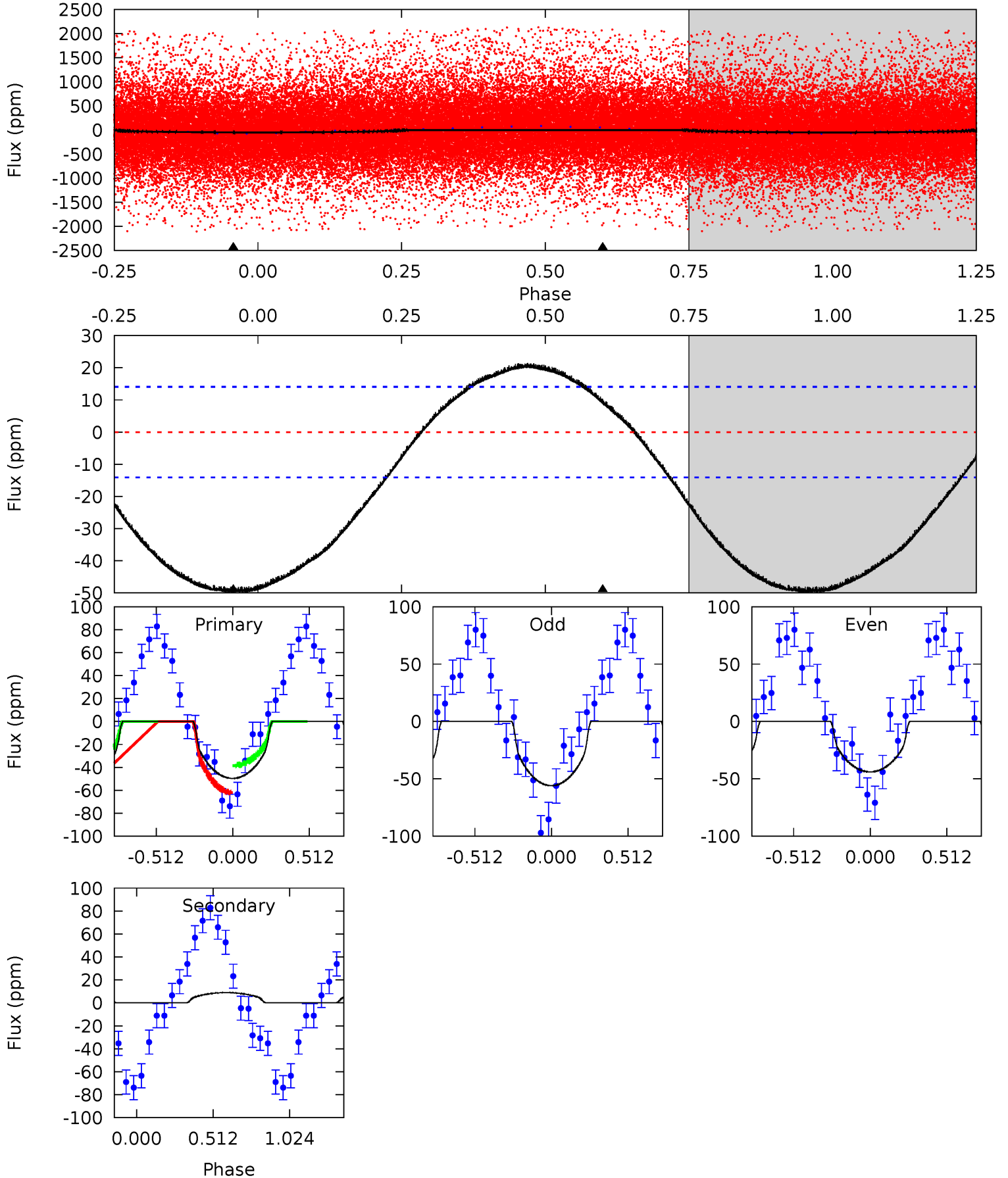
TCE 008265082-01 P= 0.718227 Days $T_0=132.231865$ (BKJD)



DV Model-Shift Uniqueness Test

008265082-01, P = 0.718237 Days, E = 132.227829 Days

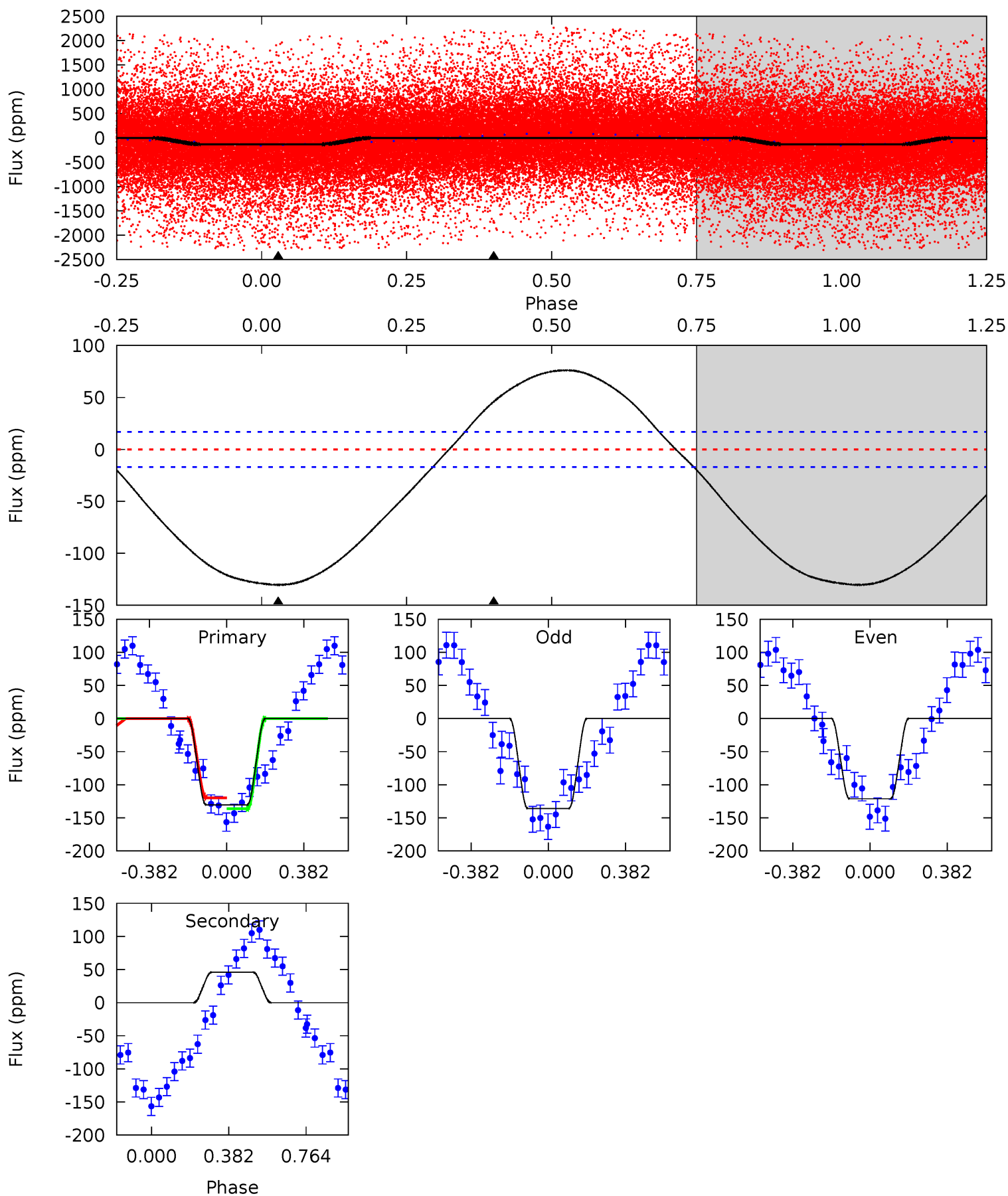
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.8	-2.67	0	0	4.21	0.66	1.90	14.8	14.8	-2.67	-2.67	1.80	1.26	0.30	3.73



Alt Model-Shift Uniqueness Test

008265082-01, P = 0.718227 Days, E = 132.231865 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.0	-11.6	0	0	4.28	0.87	4.25	33.0	33.0	-11.6	-11.6	1.86	1.73	0.37	2.05



Stellar Parameters For KIC 008265082

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5917^{+182}_{-223}	$4.475^{+0.050}_{-0.200}$	$0.140^{+0.200}_{-0.300}$	$1.000^{+0.289}_{-0.096}$	$1.088^{+0.112}_{-0.150}$	$1.531^{+0.396}_{-0.763}$
	+3%/-4%	+1%/-4%	+143%/-214%	+29%/-10%	+10%/-14%	+26%/-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 008265082-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	9 ± 3	$0.74^{+0.49}_{-0.44}$	2928^{+209}_{-148}	-4353^{+645}_{-1969}	$-2.327^{+1.613}_{-11.692}$
Alt.	46 ± 4	$1.14^{+0.53}_{-0.54}$	2940^{+203}_{-148}	-5033^{+664}_{-1702}	$-4.881^{+2.578}_{-12.203}$

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

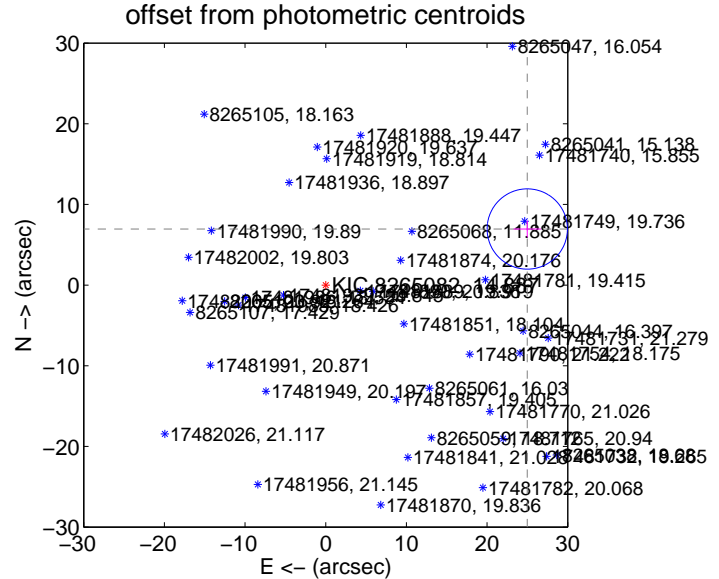
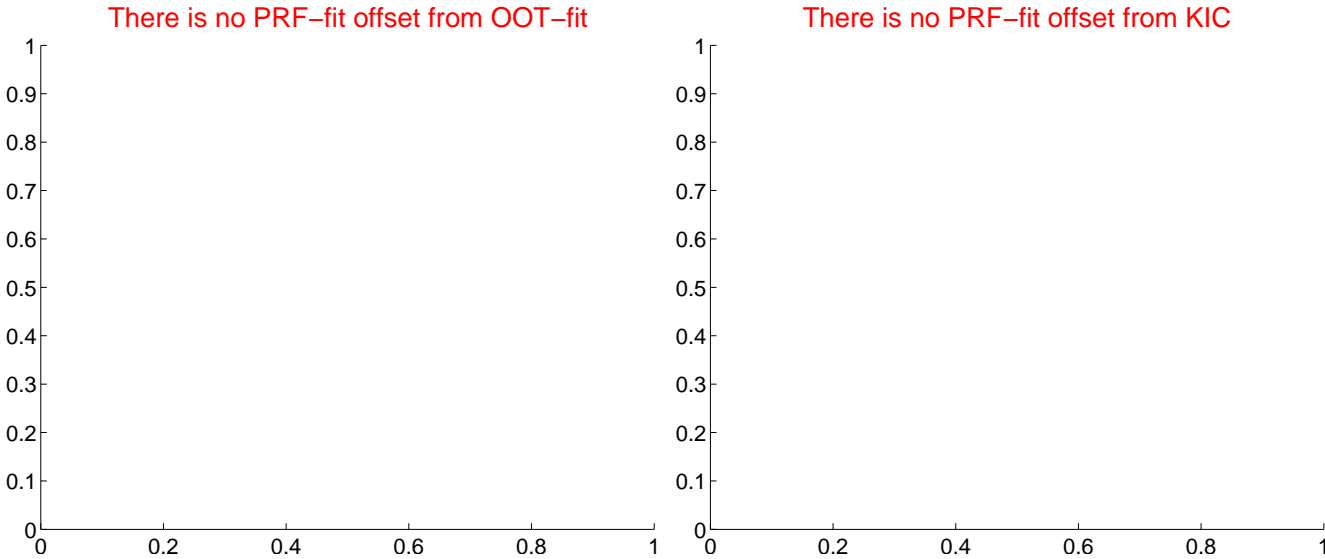
DV Centroid Data

Supplemental centroid analysis for 008265082-01. Kepler magnitude: 14.89. Transit SNR 8.59

There are 0 quarters with good PRF difference image offsets

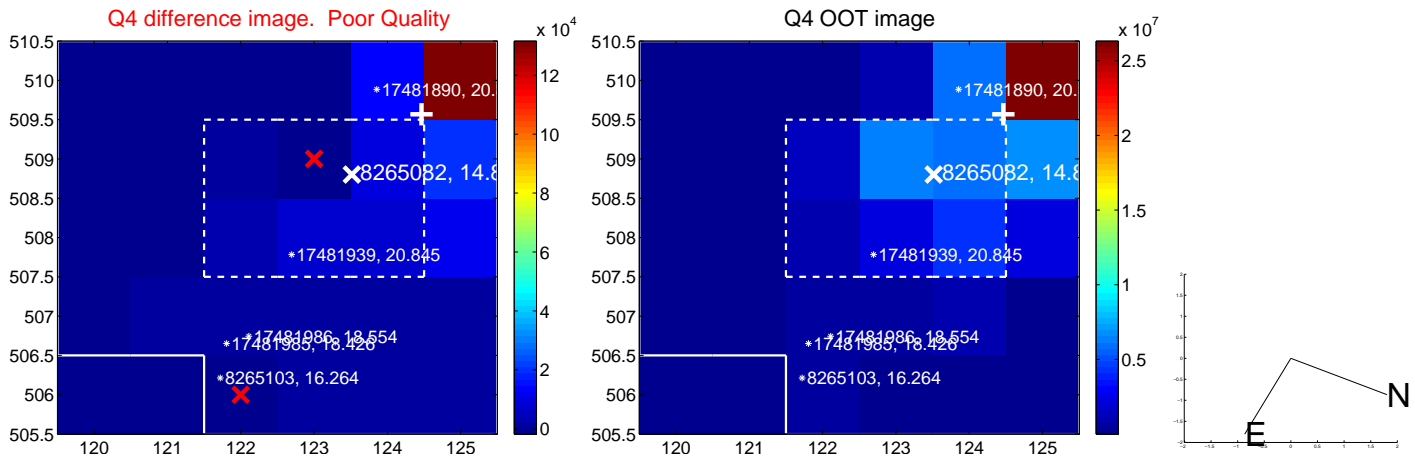
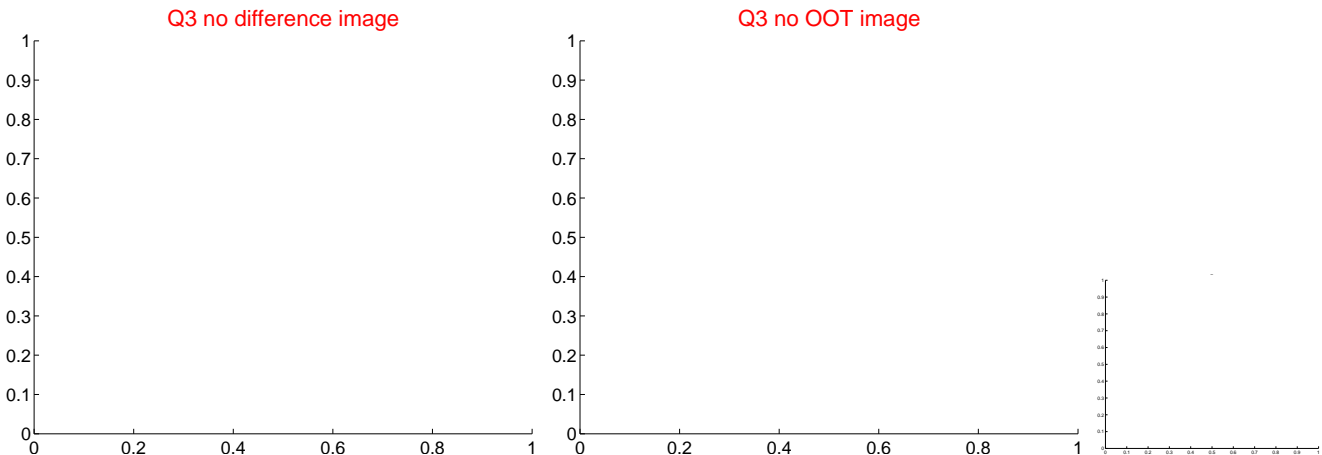
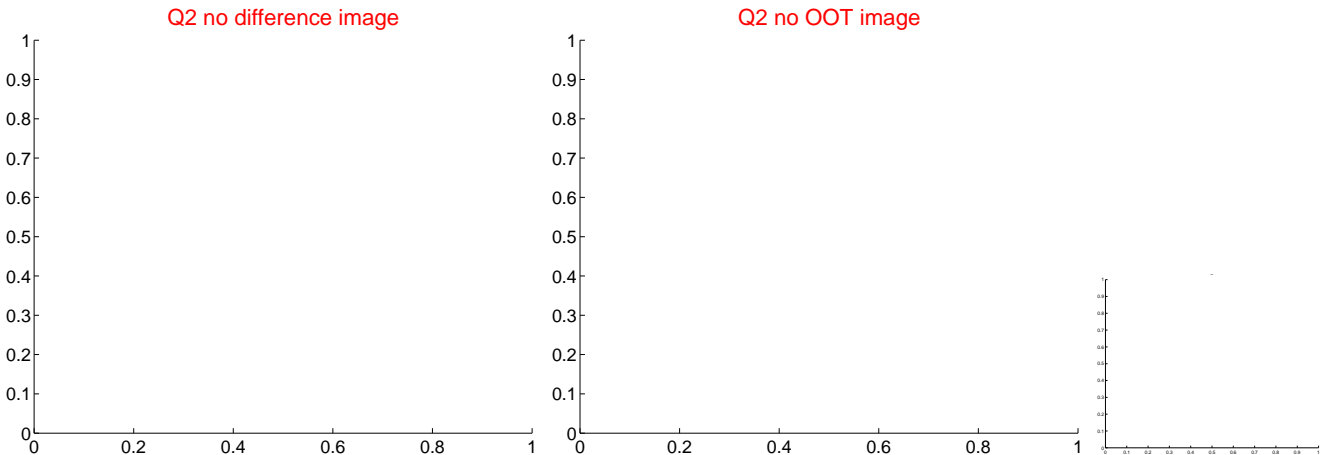
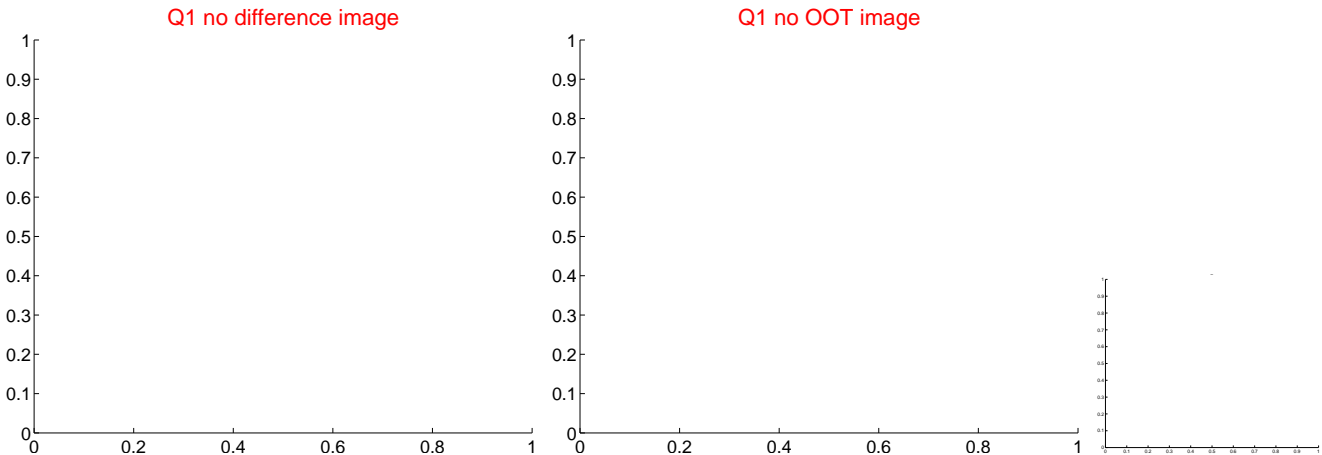
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	25.93 \pm 1.66	15.63	-24.98 \pm 1.70	6.95 \pm 1.05

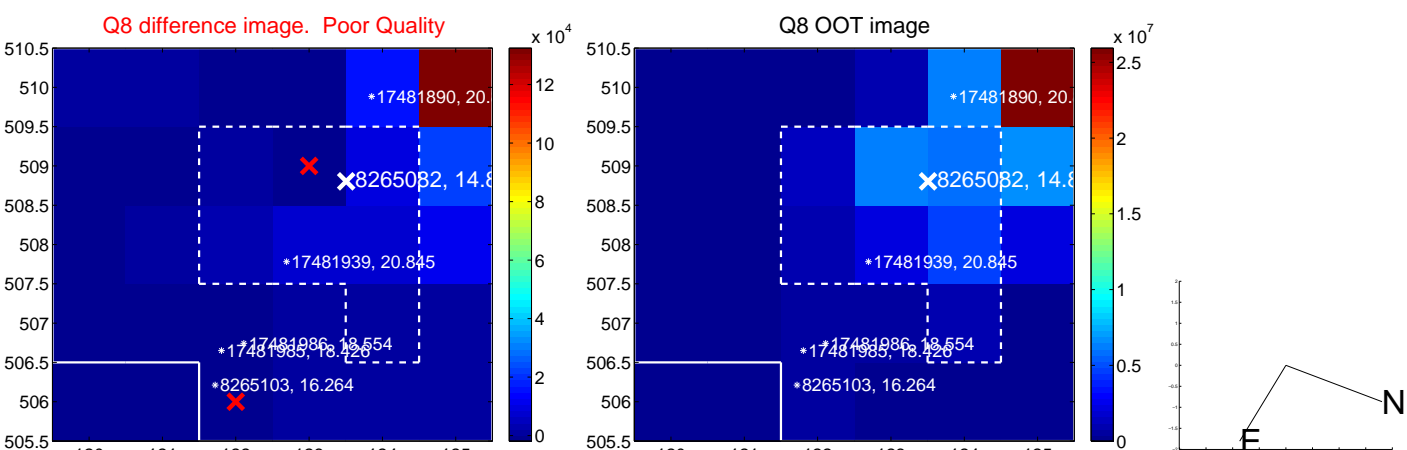
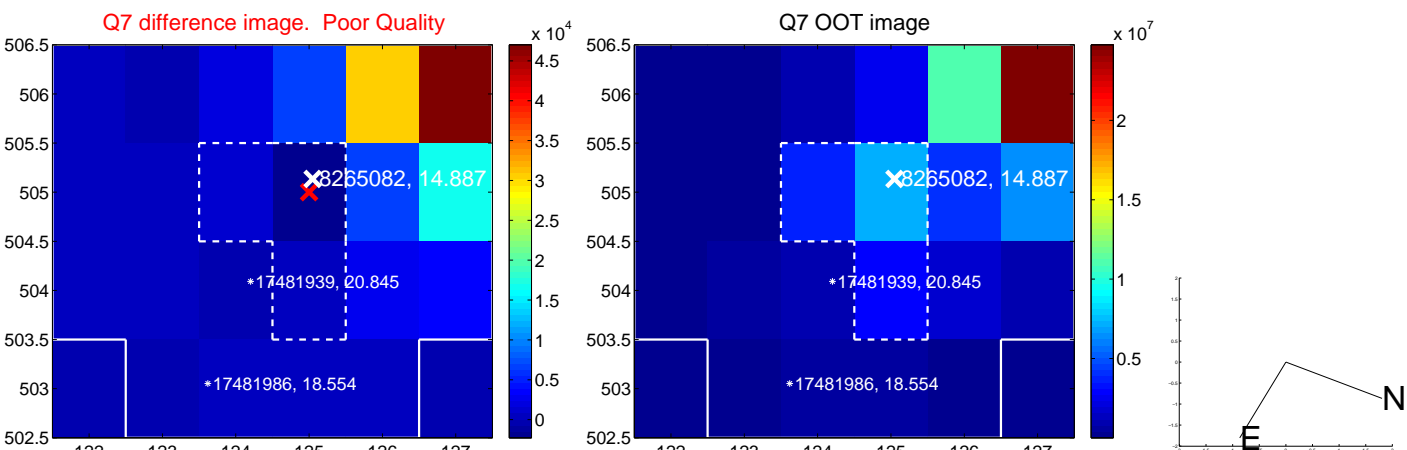
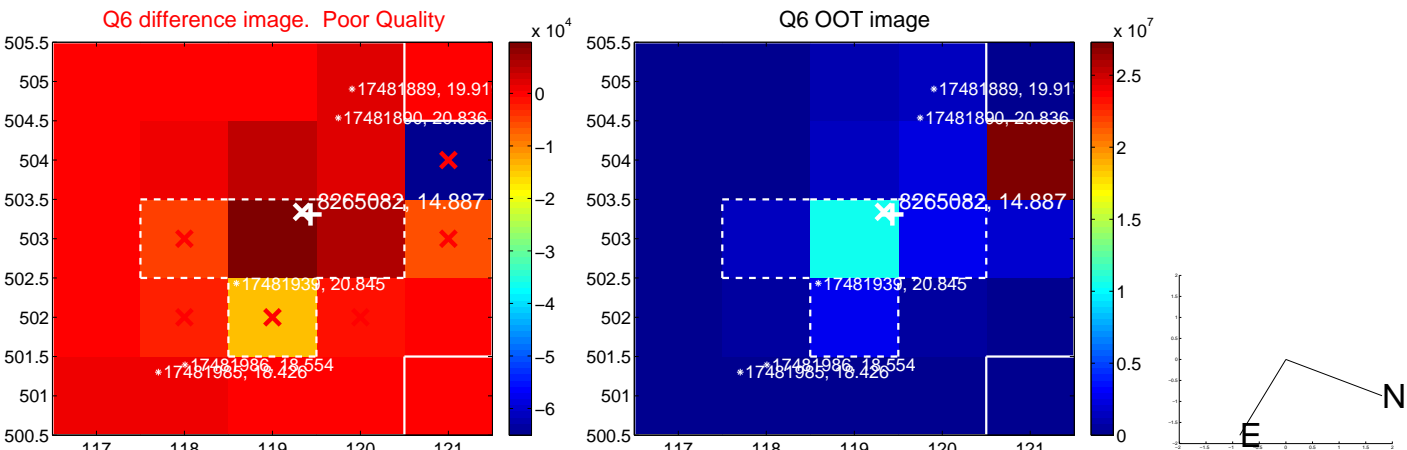
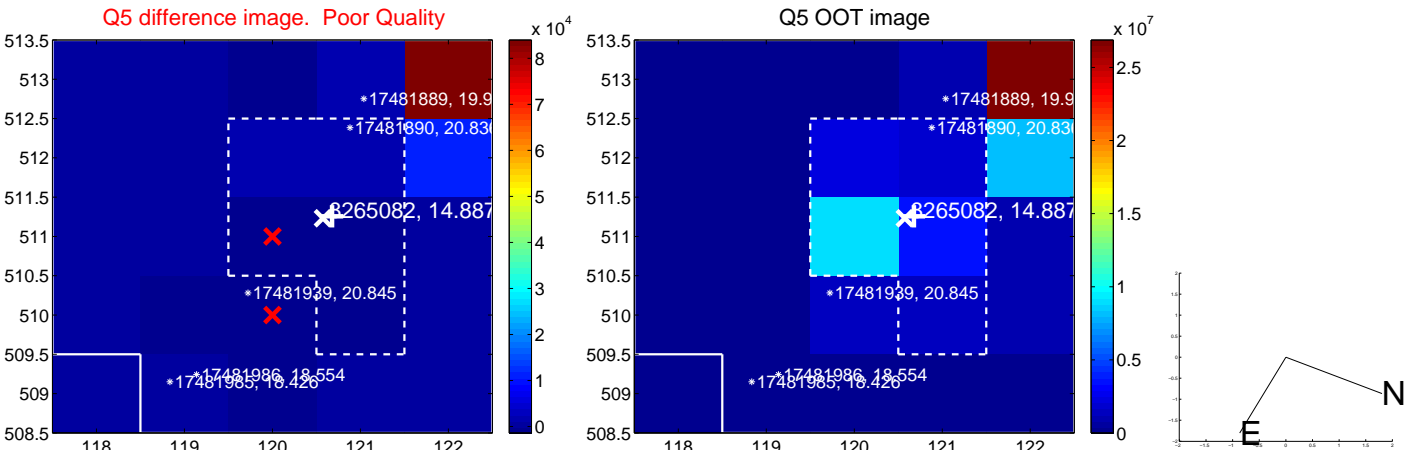


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

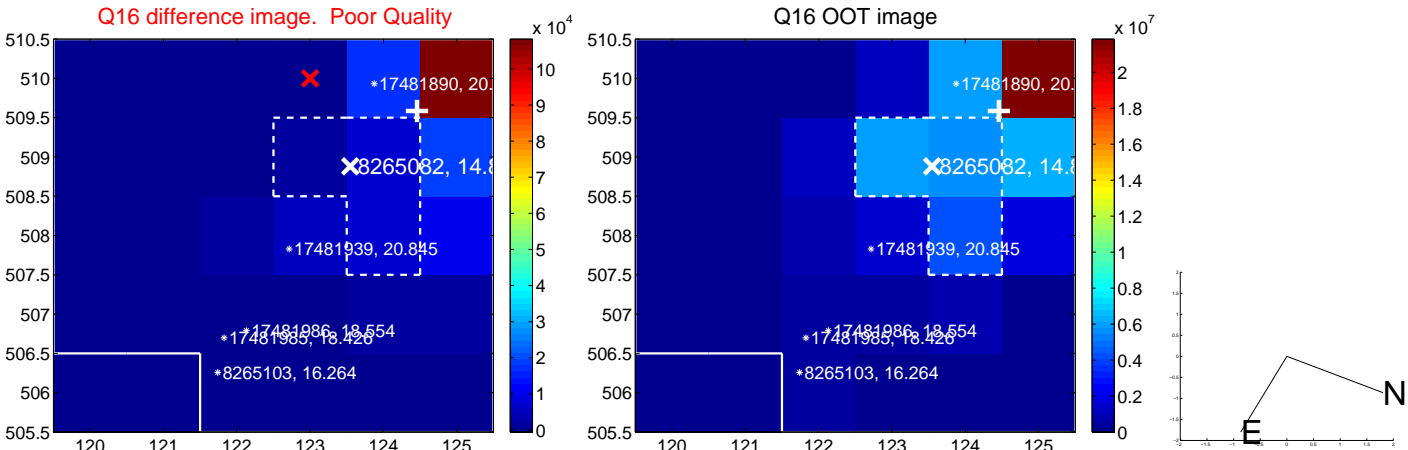
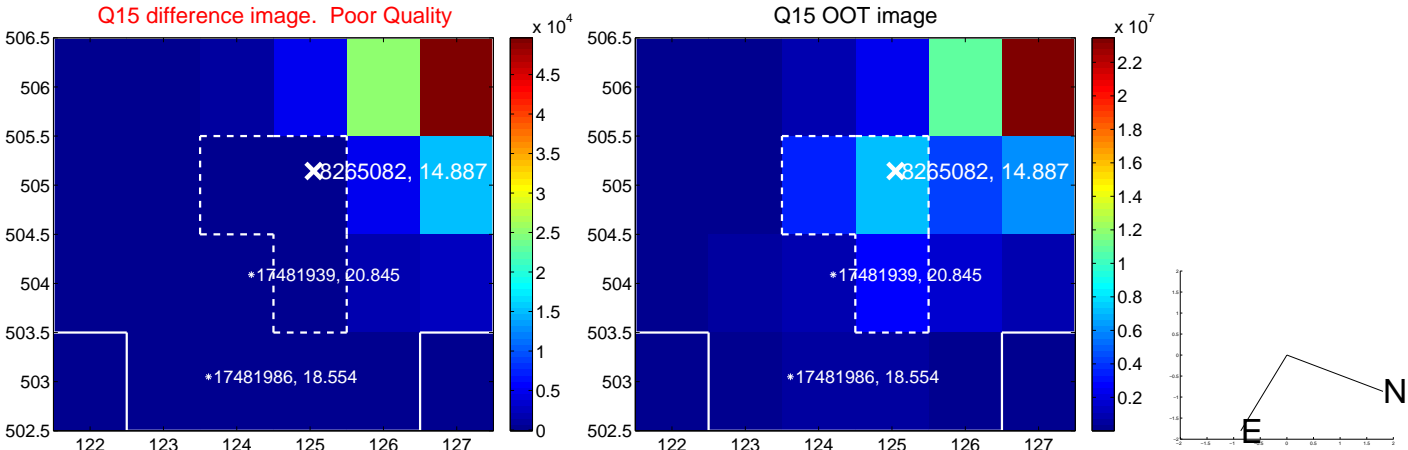
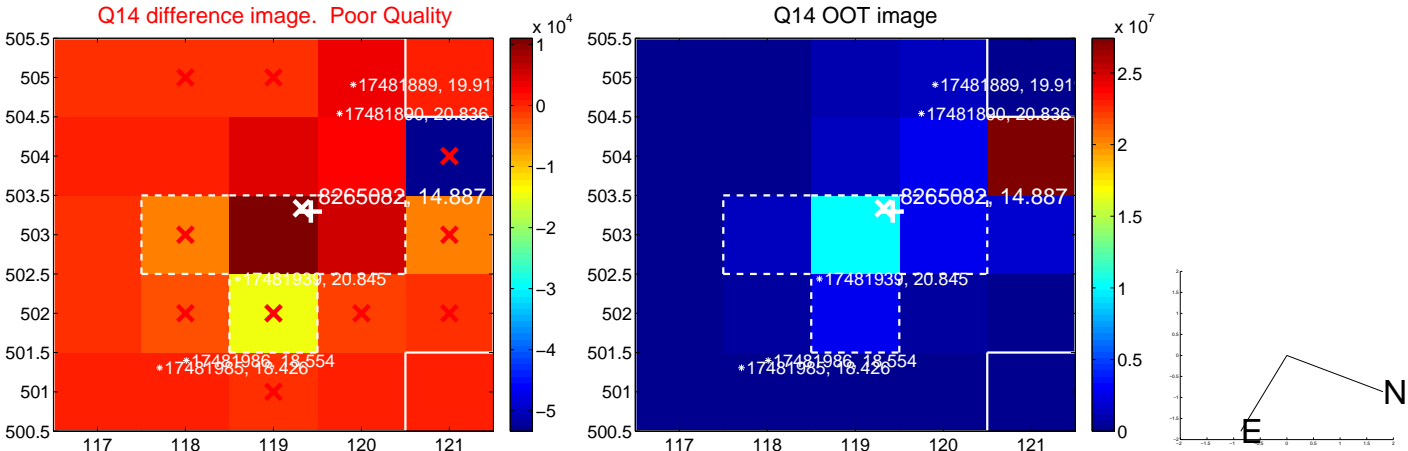
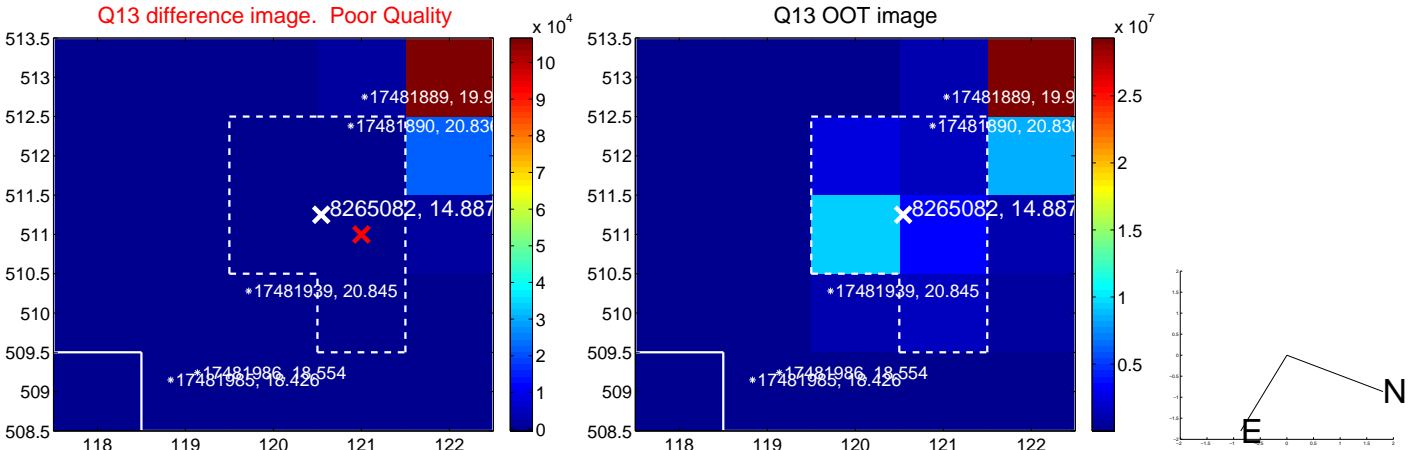
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



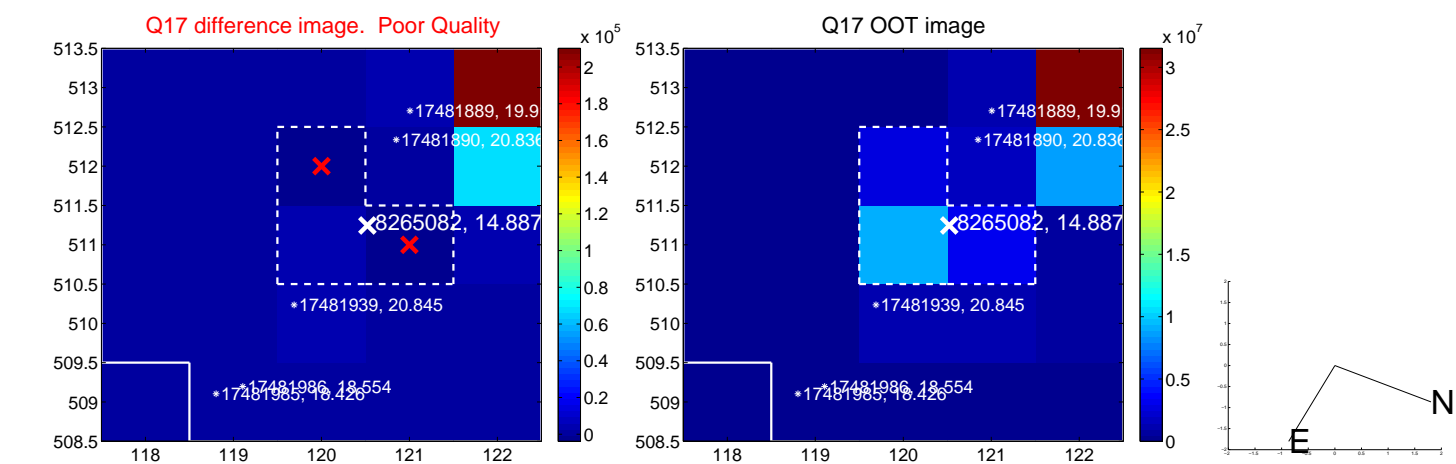
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



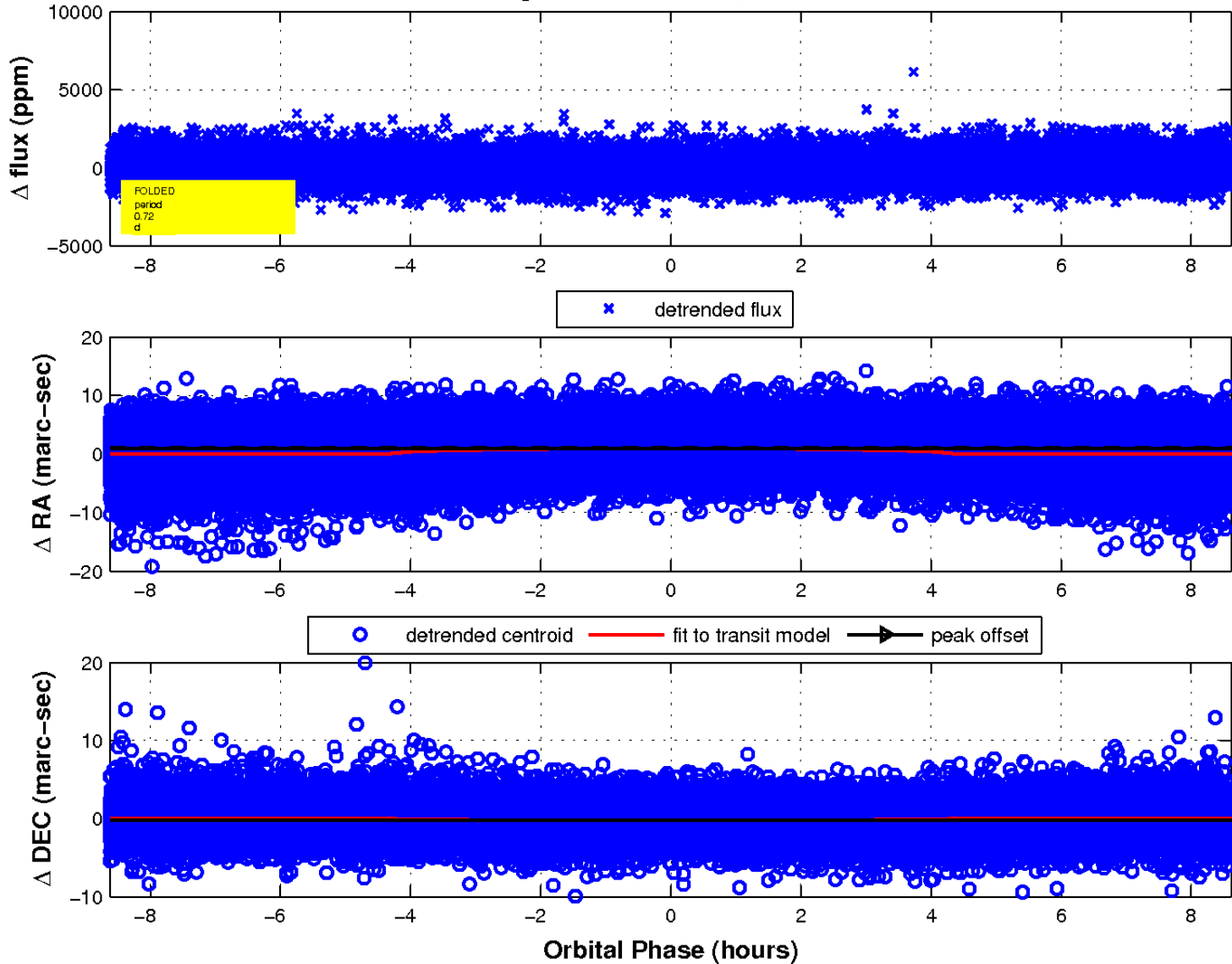
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

