

KIC 006804592

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})
006804592-01	OBS	No	1.363487	131.901764	2.2	13.726	7.3	6.1	2.12	8641	0.32	24111.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006804592-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED

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

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

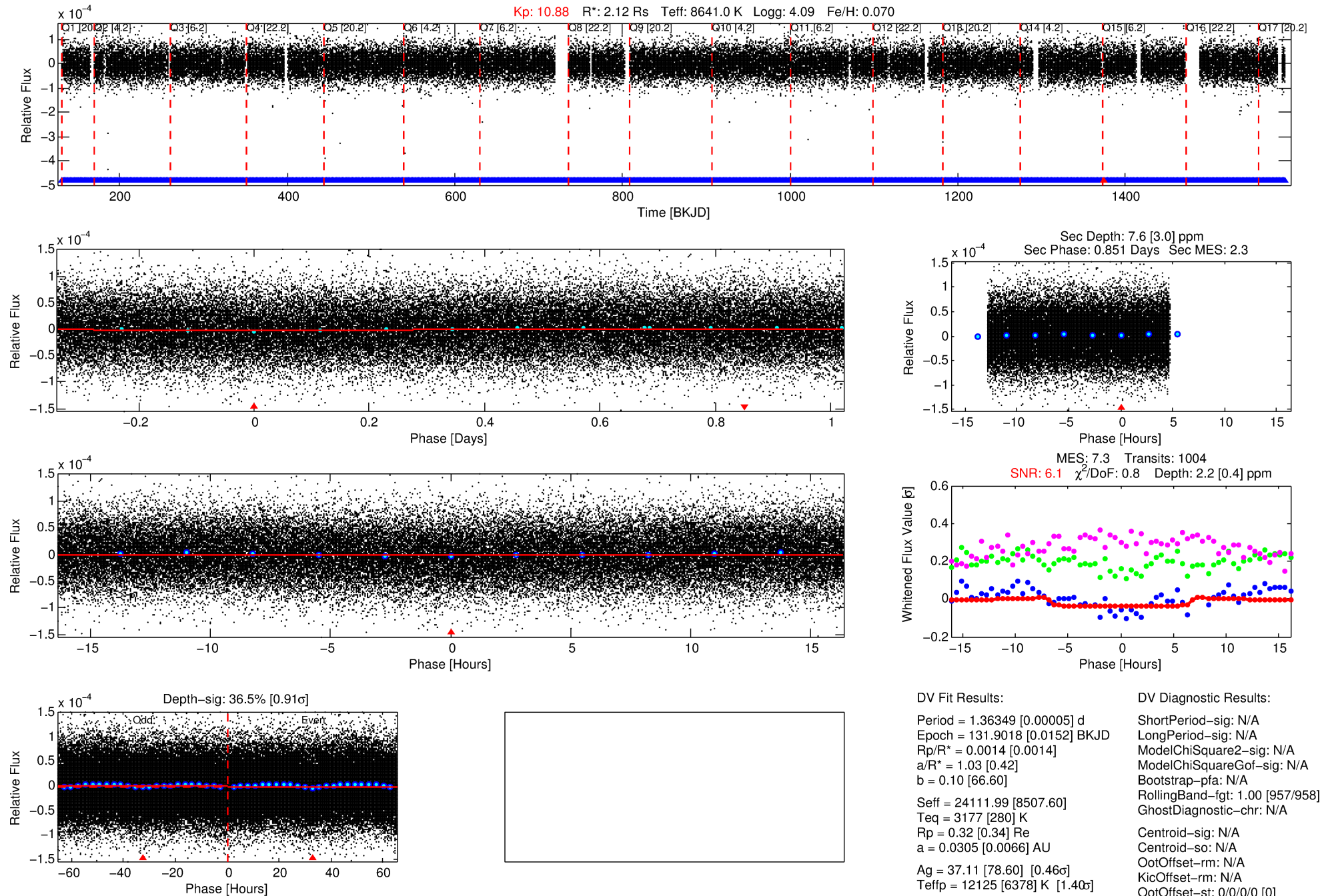
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006804592-01

No Significant Match Found

DV One-Page Summary

KIC: 6804592 Candidate: 1 of 1 Period: 1.363 d



DV Fit Results:

Period = 1.36349 [0.00005] d
Epoch = 131.9018 [0.0152] BKJD
 $R_p/R^* = 0.0014$ [0.0014]
 $a/R^* = 1.03$ [0.42]
 $b = 0.10$ [66.60]
 $\text{Seff} = 24111.99$ [8507.60]
 $T_{\text{eq}} = 3177$ [280] K
 $R_p = 0.32$ [0.34] R_e
 $a = 0.0305$ [0.0066] AU
 $A_g = 37.11$ [78.60] [0.46 σ]
 $T_{\text{eff}} = 12125$ [6378] K [1.40 σ]

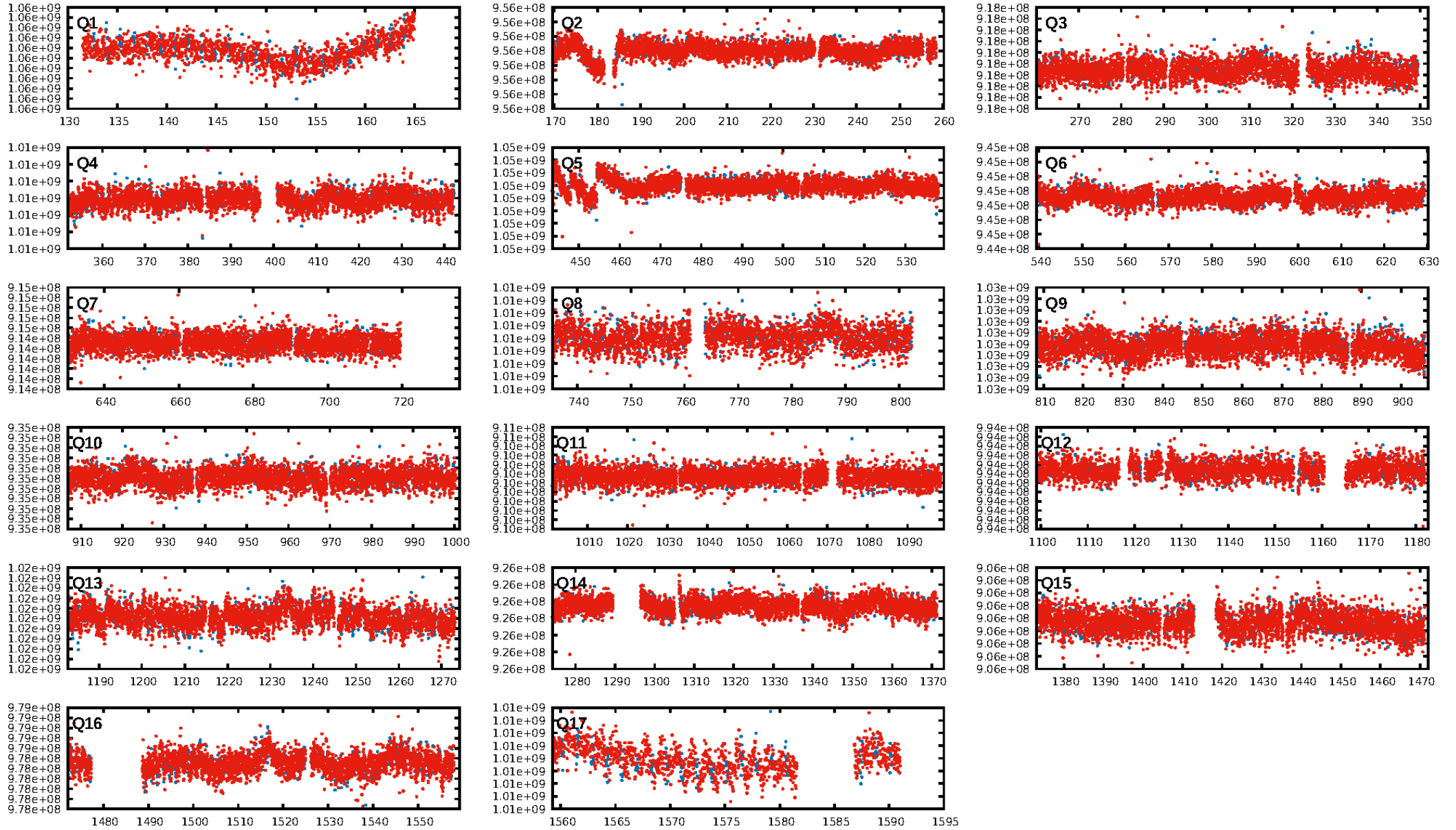
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [957/958]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

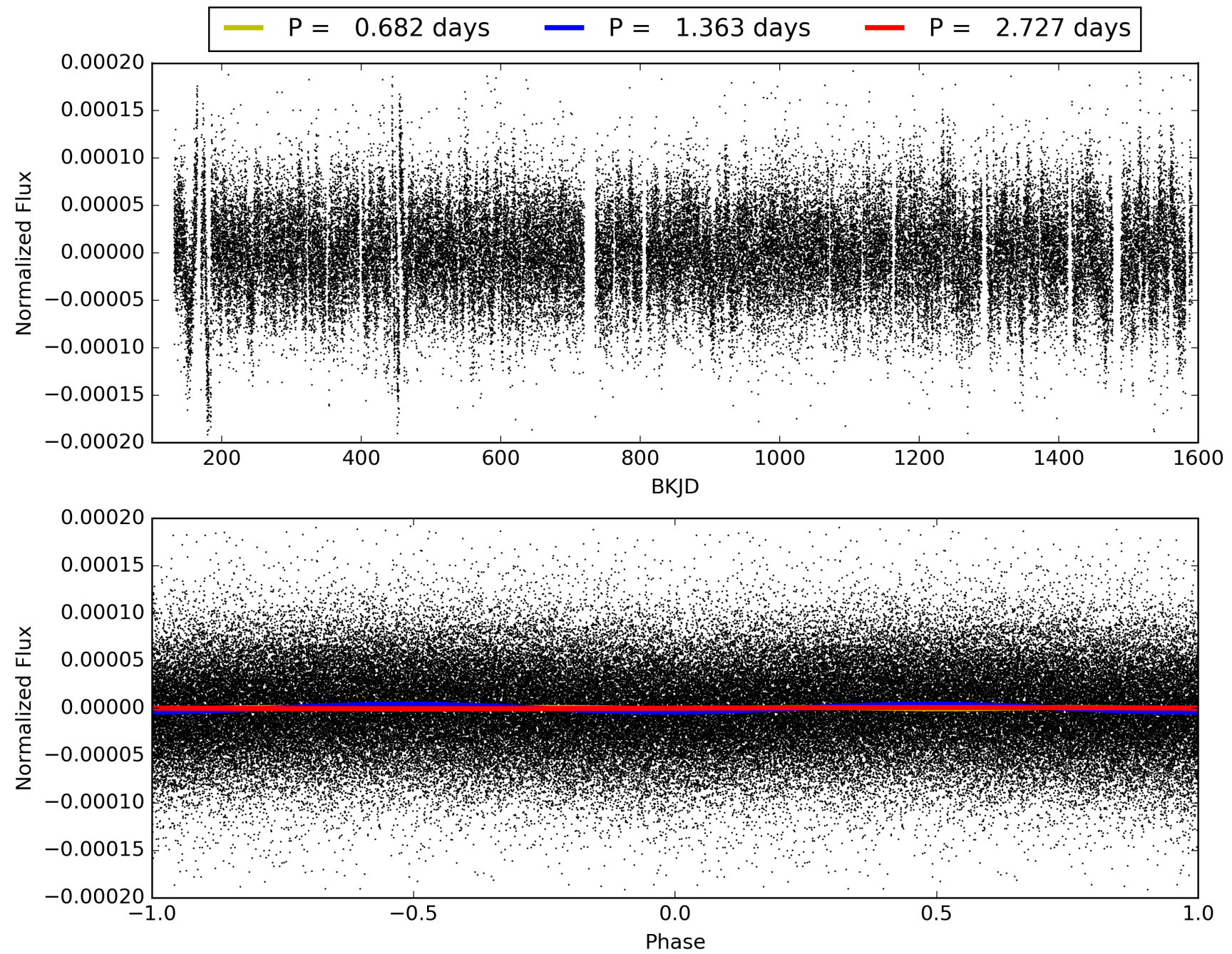
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 19:58:37 Z

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

TCE 006804592-01, PDC Light Curves

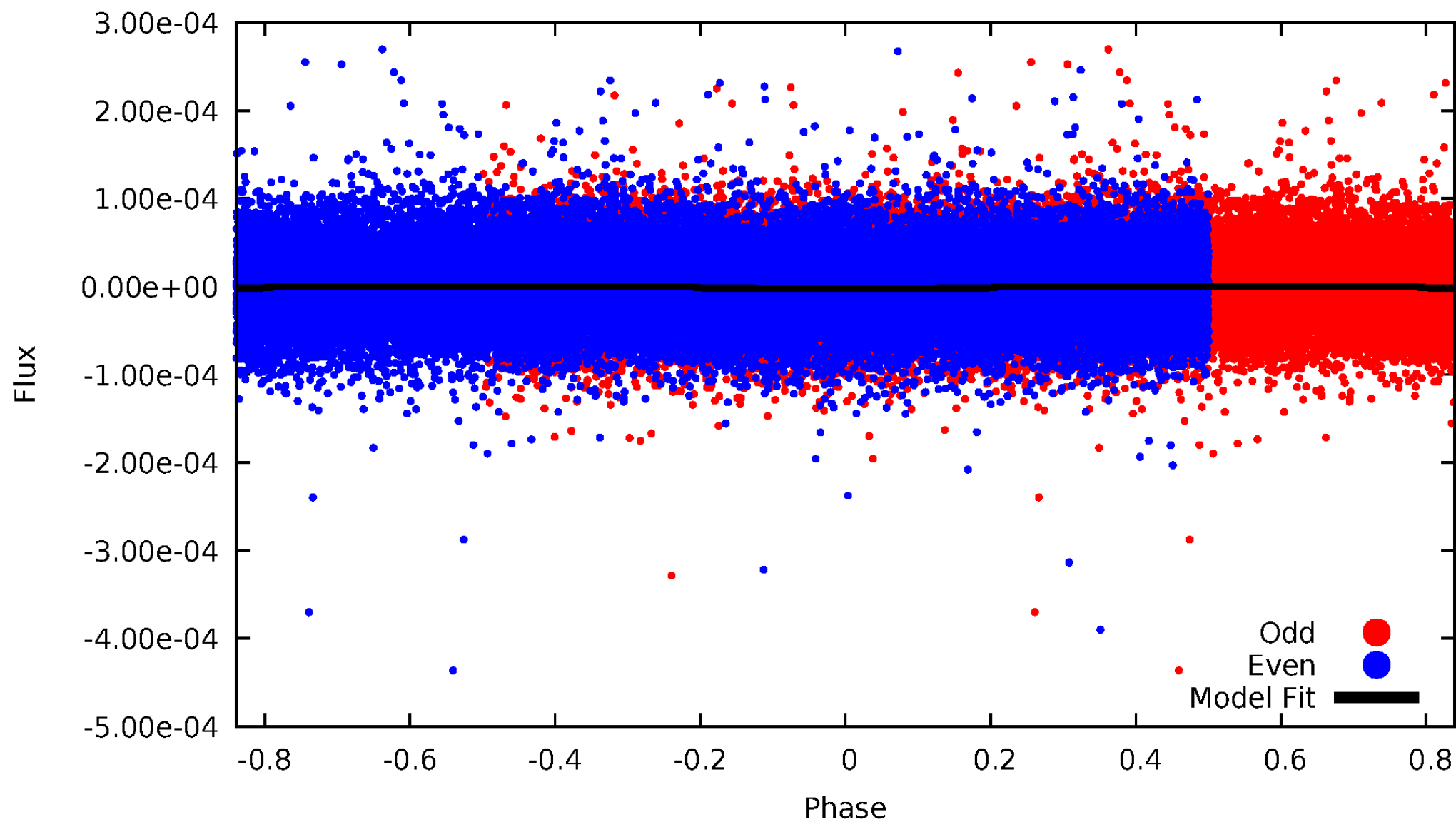


TCE 006804592-01



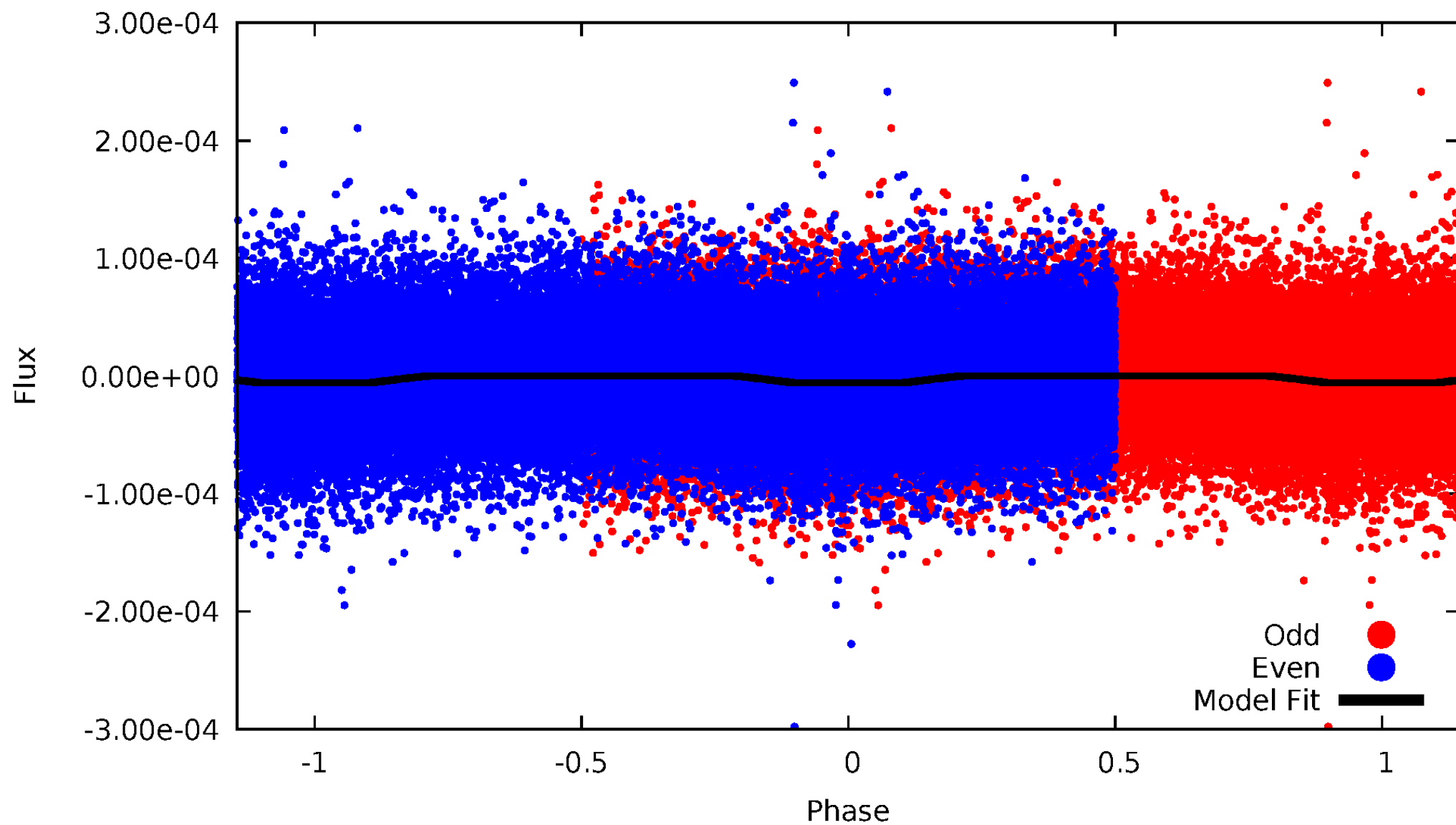
DV Odd/Even

TCE 006804592-01



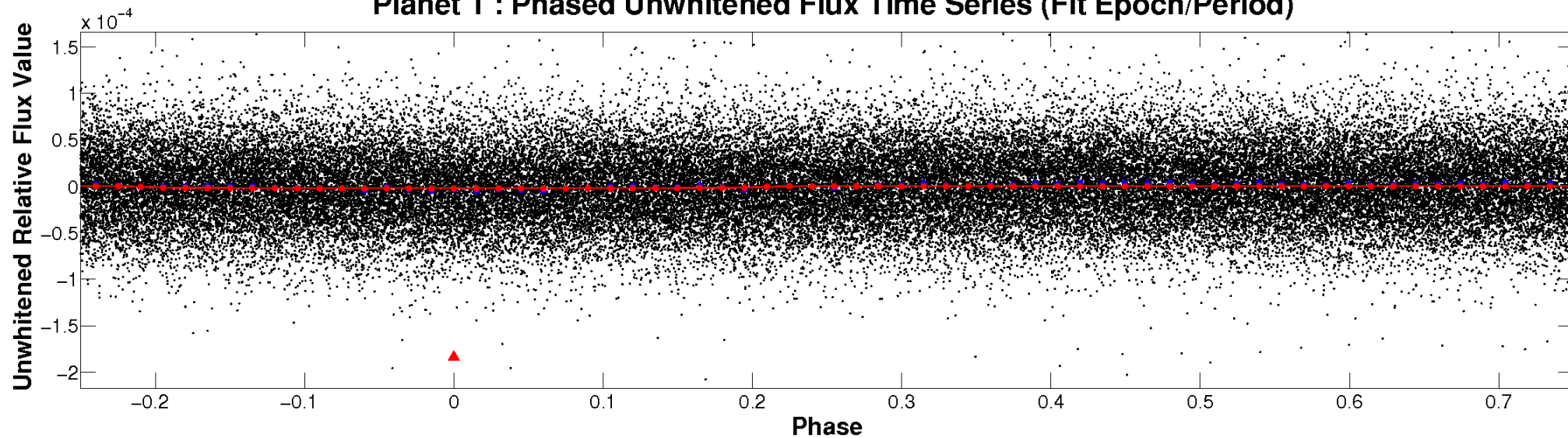
ALT Odd/Even

TCE 006804592-01

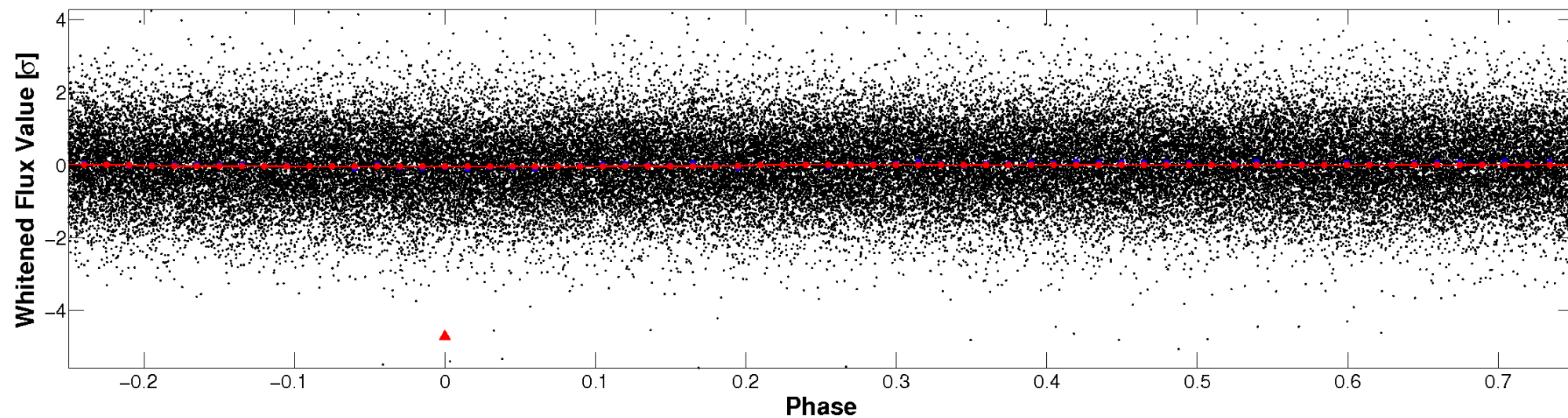


Non-Whitened Vs. Whitened Light Curve

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

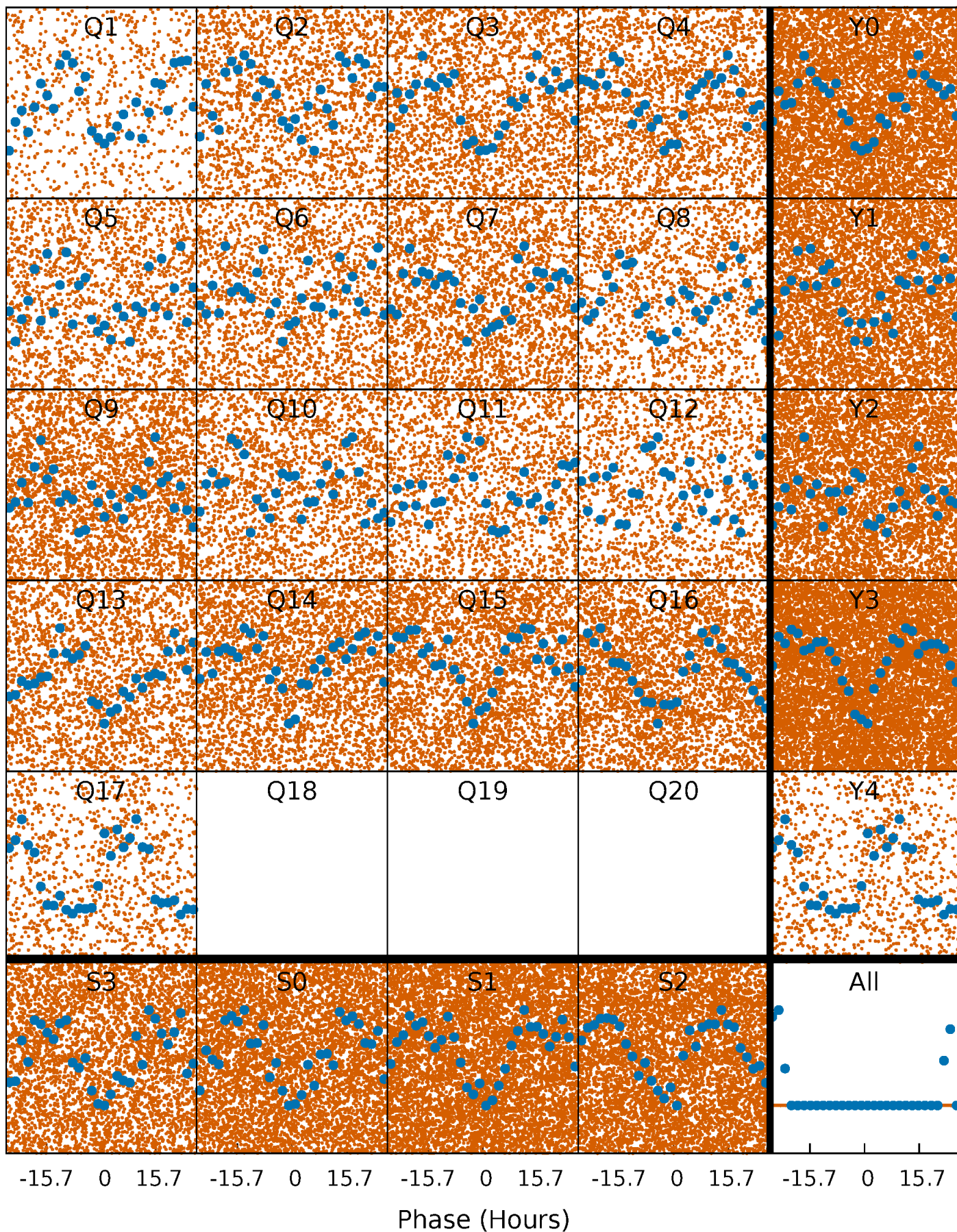


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



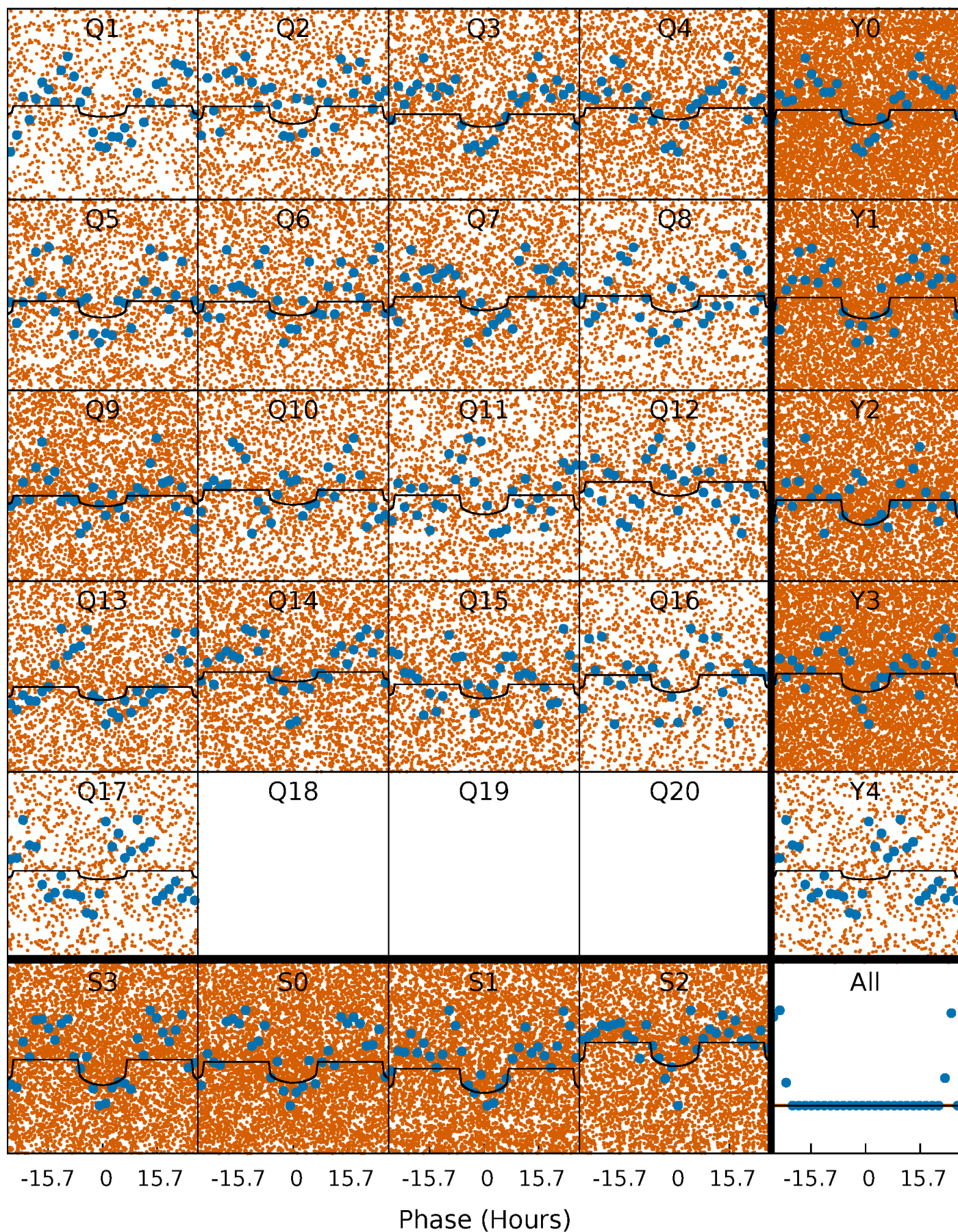
PDC Quarter-Phased Transit Curves

TCE 006804592-01 P= 1.363487 Days $T_0=131.901764$ (BKJD)



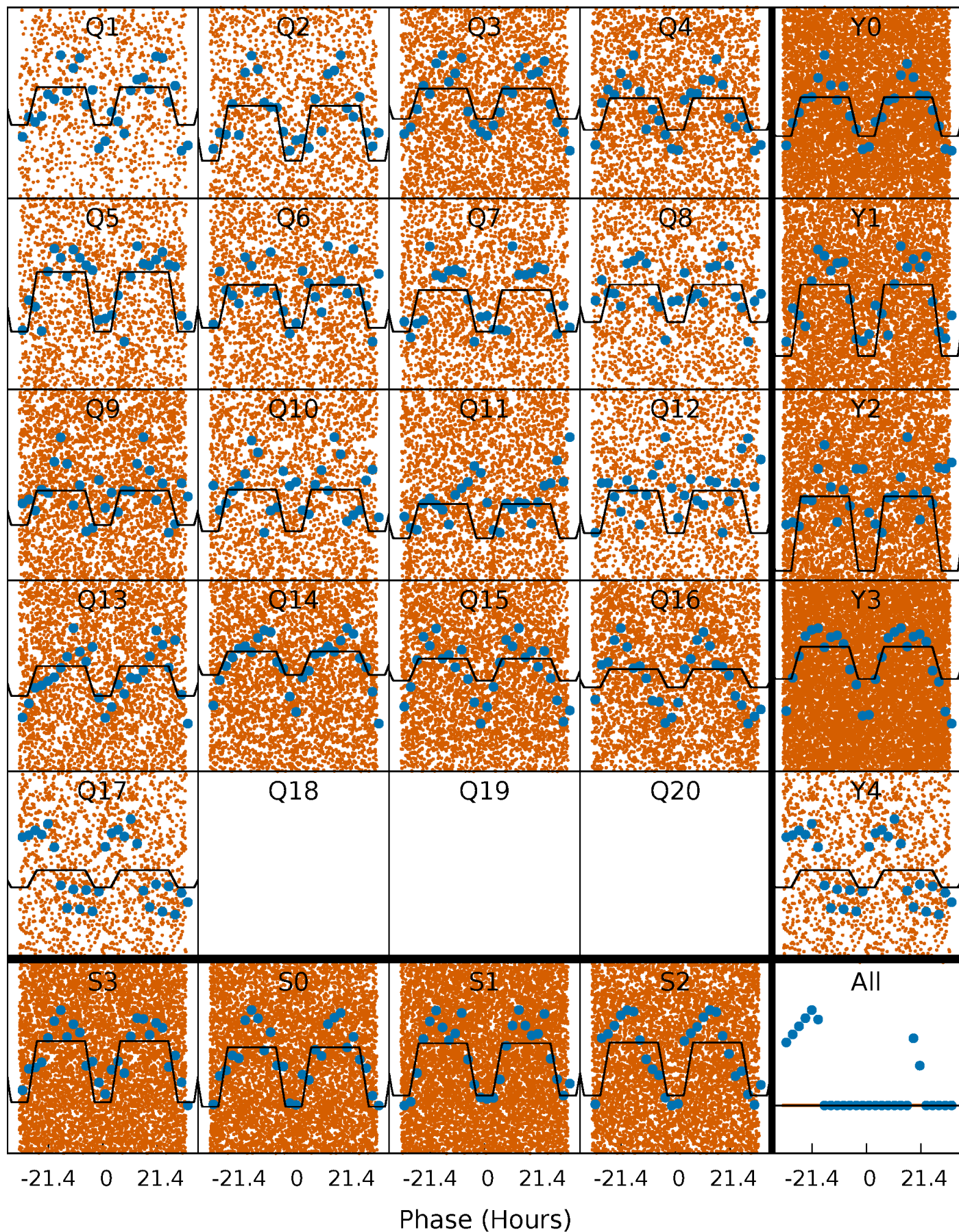
DV Quarter-Phased Transit Curves

TCE 006804592-01 P= 1.363487 Days $T_0=131.901764$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

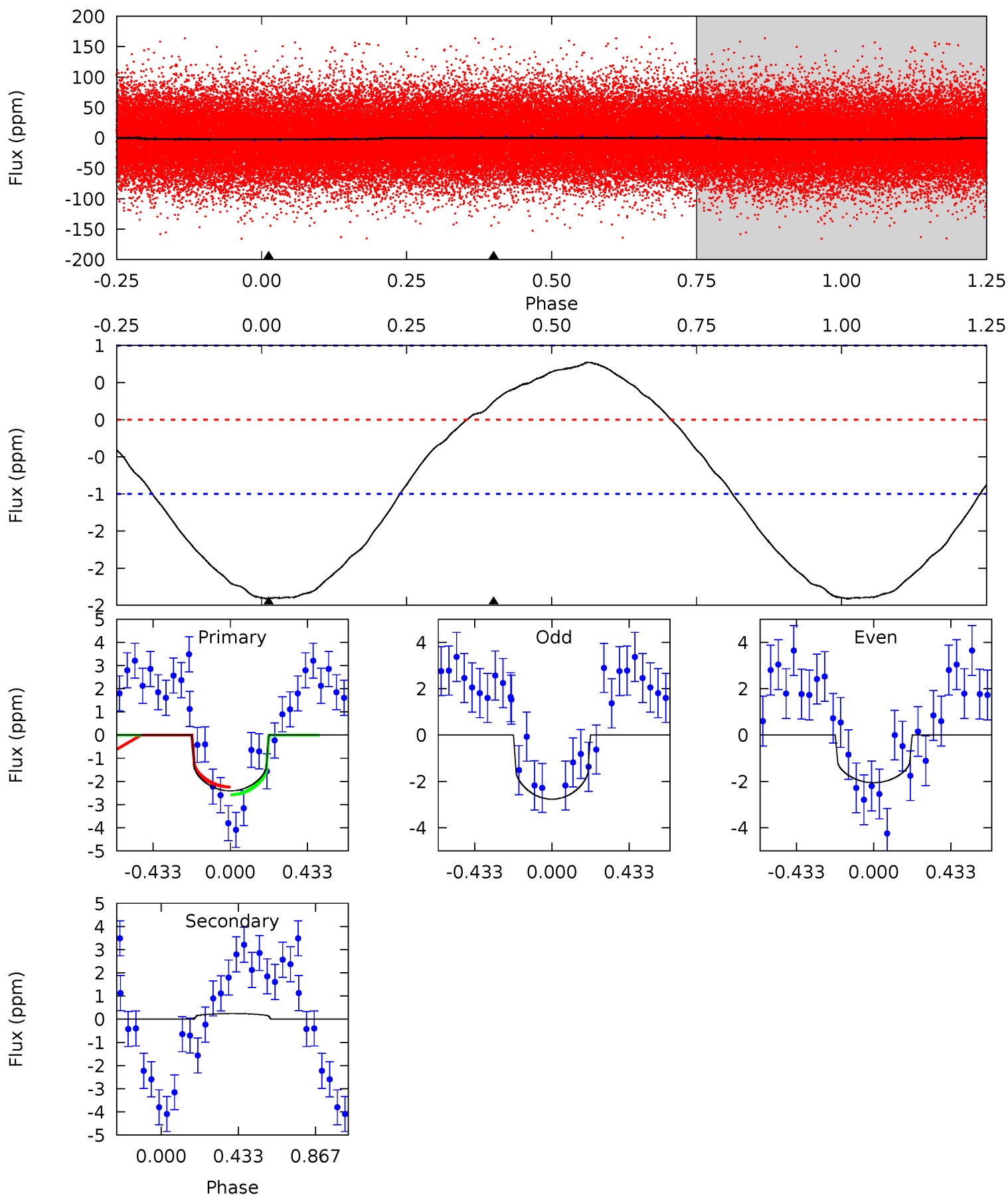
TCE 006804592-01 P= 1.363454 Days $T_0=131.911133$ (BKJD)



DV Model-Shift Uniqueness Test

006804592-01, P = 1.363487 Days, E = 130.538277 Days

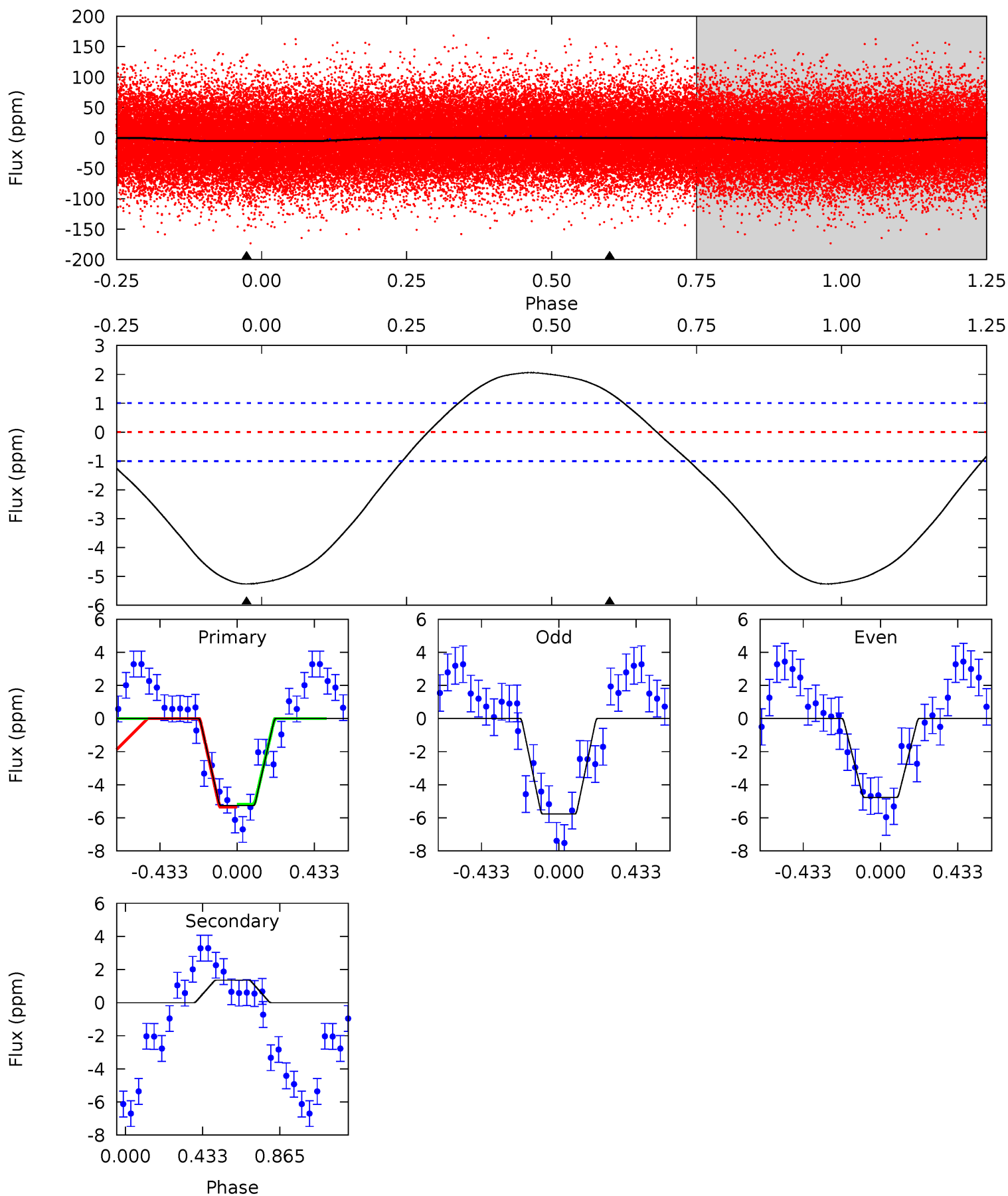
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	-1.03	0	0	4.25	0.78	1.03	10.2	10.2	-1.03	-1.03	1.52	0.88	0.24	0.72



Alt Model-Shift Uniqueness Test

006804592-01, P = 1.363454 Days, E = 130.547679 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.2	-5.74	0	0	4.25	0.78	2.63	22.2	22.2	-5.74	-5.74	2.11	1.14	0.28	0.40



Stellar Parameters For KIC 006804592

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8641^{+246}_{-387}	$4.094^{+0.131}_{-0.160}$	$0.070^{+0.250}_{-0.550}$	$2.118^{+0.569}_{-0.466}$	$2.031^{+0.351}_{-0.429}$	$0.301^{+0.229}_{-0.129}$
	+3%/-4%	+3%/-4%	+357%/-786%	+27%/-22%	+17%/-21%	+76%/-43%
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 006804592-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 0	$0.39^{+0.31}_{-0.25}$	4443^{+309}_{-313}	-4796^{+851}_{-2703}	$-0.632^{+0.580}_{-4.734}$
Alt.	1 ± 0	$0.56^{+0.35}_{-0.32}$	4463^{+289}_{-292}	-5893^{+920}_{-3256}	$-2.121^{+1.335}_{-9.591}$

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 006804592-01. **Kepler magnitude: 10.88.** Transit SNR 6.13

There are 0 quarters with good PRF difference image offsets

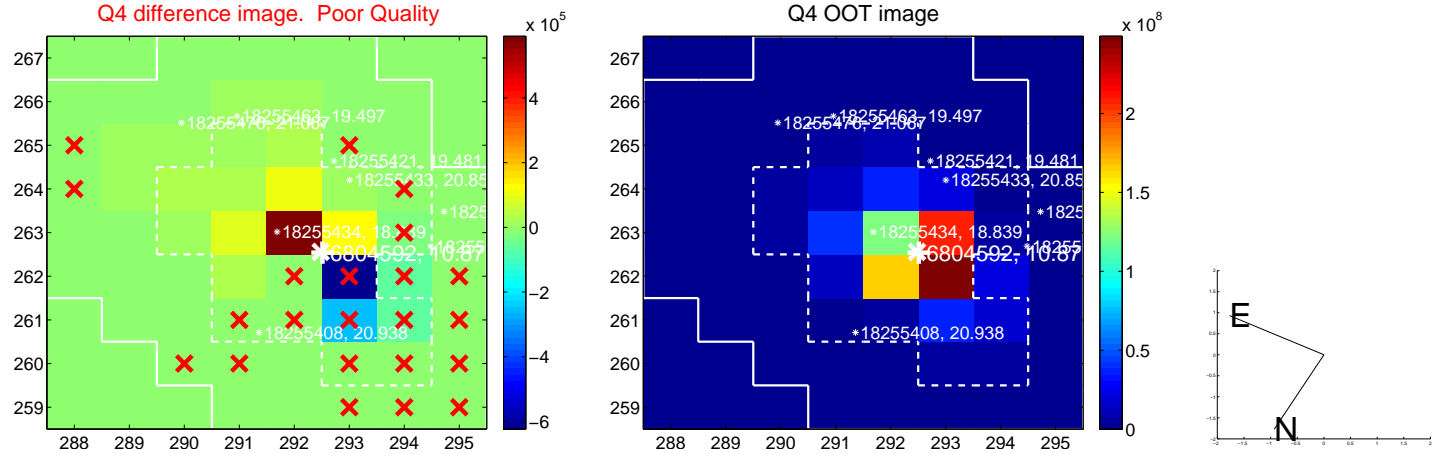
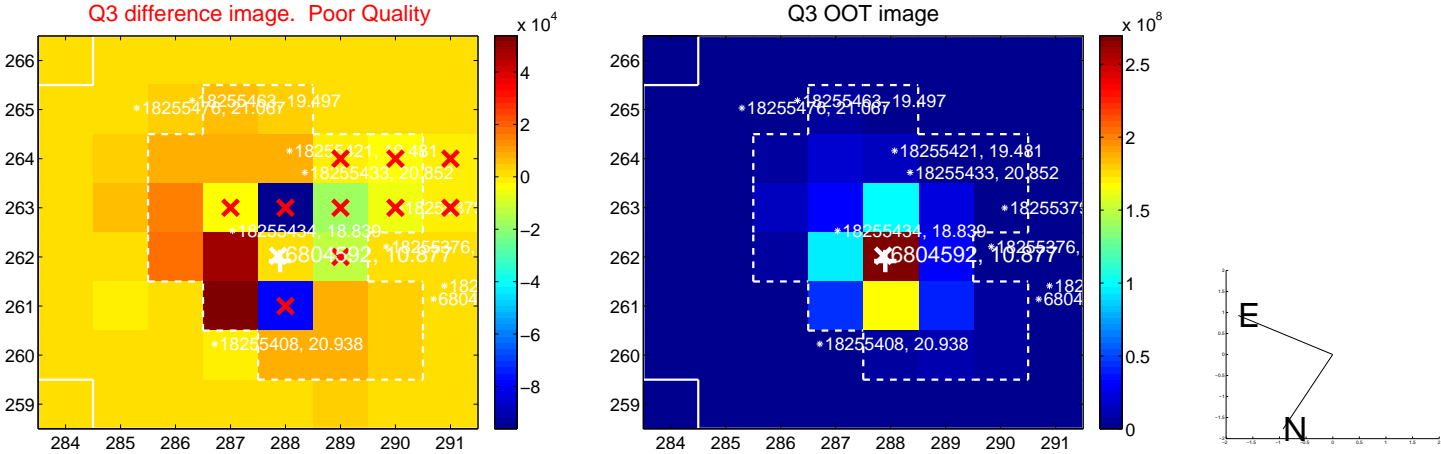
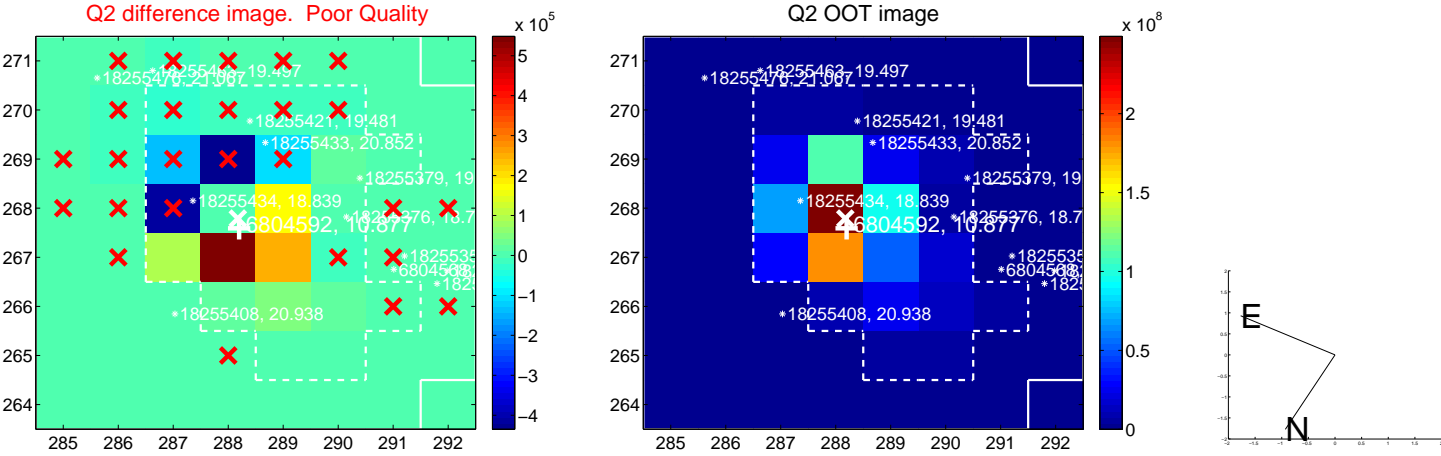
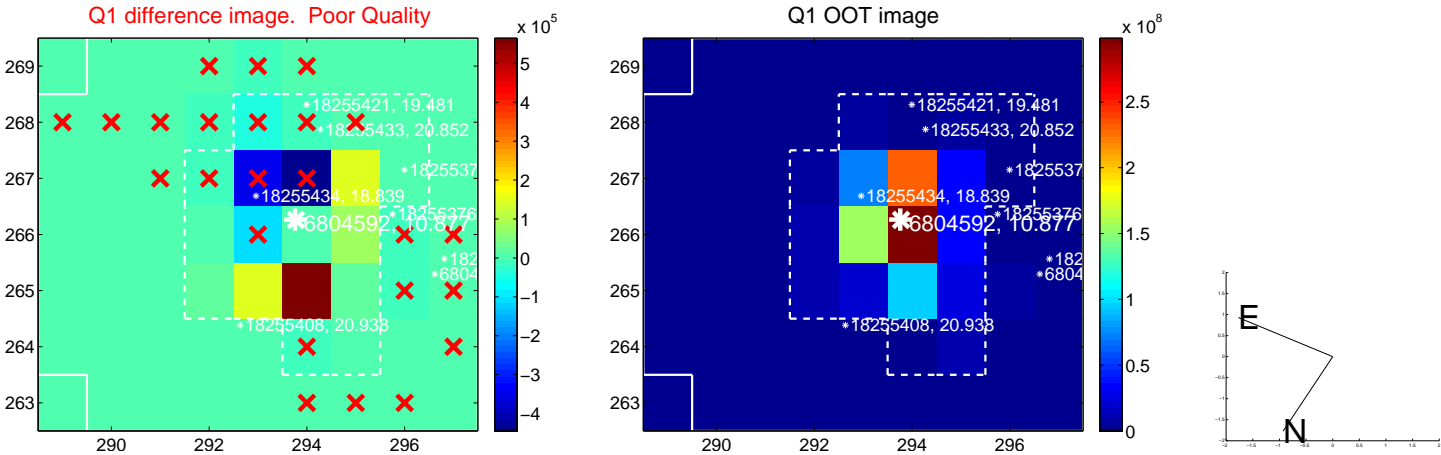
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	—	—	—	—

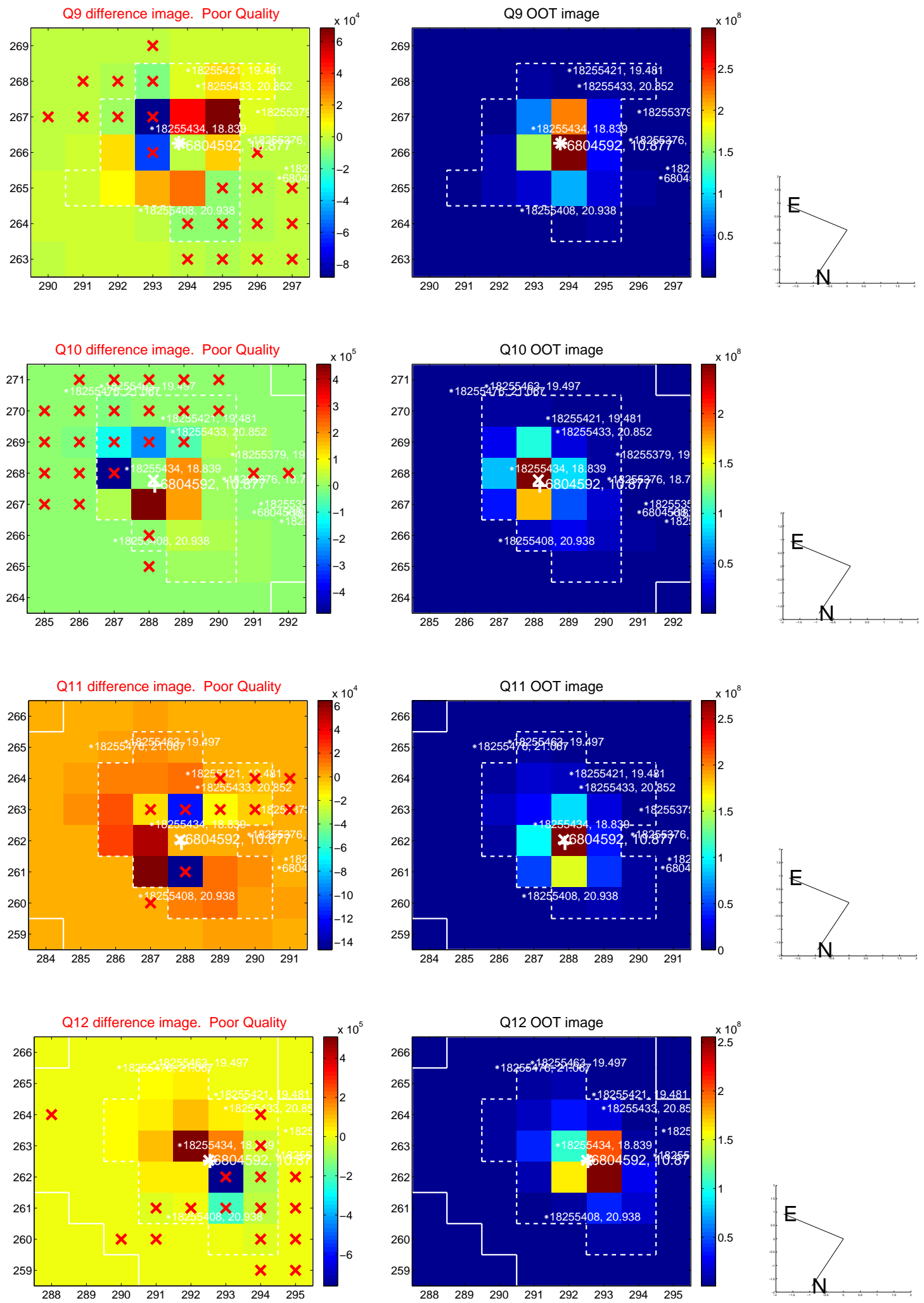


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

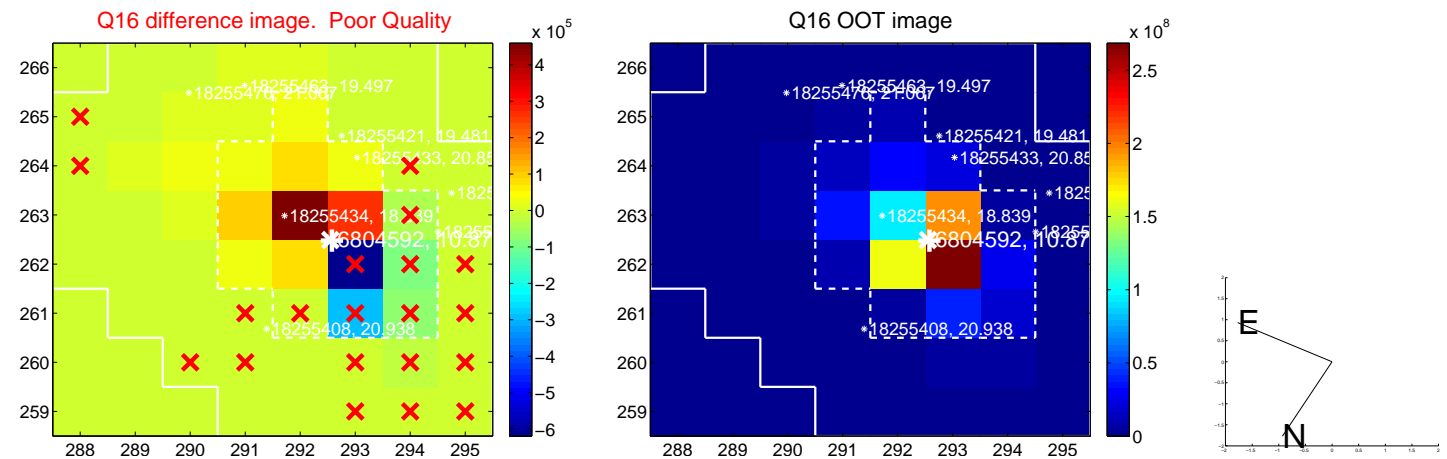
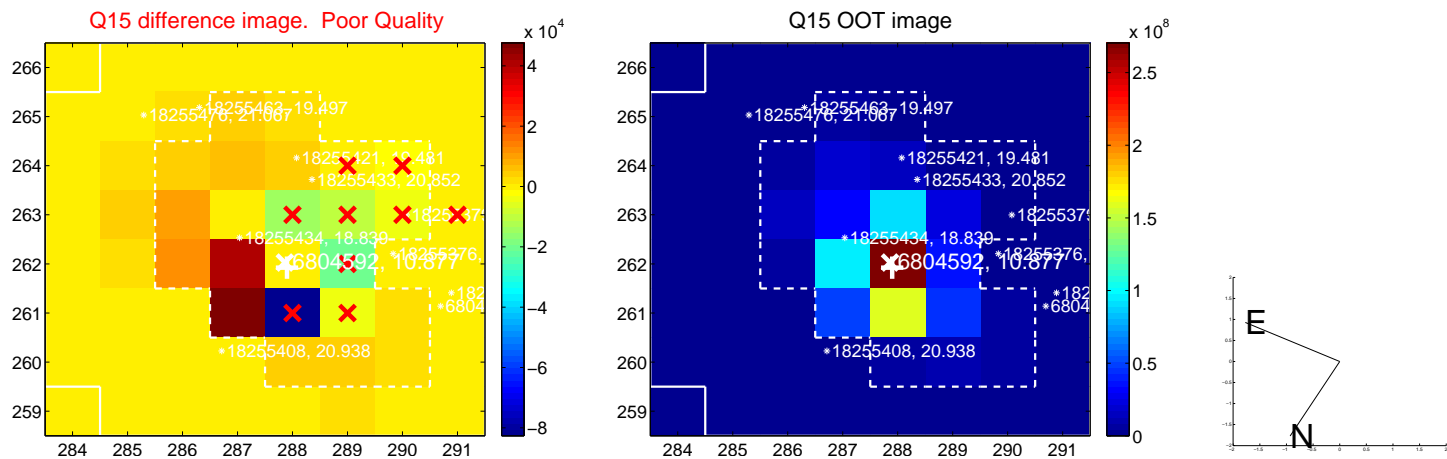
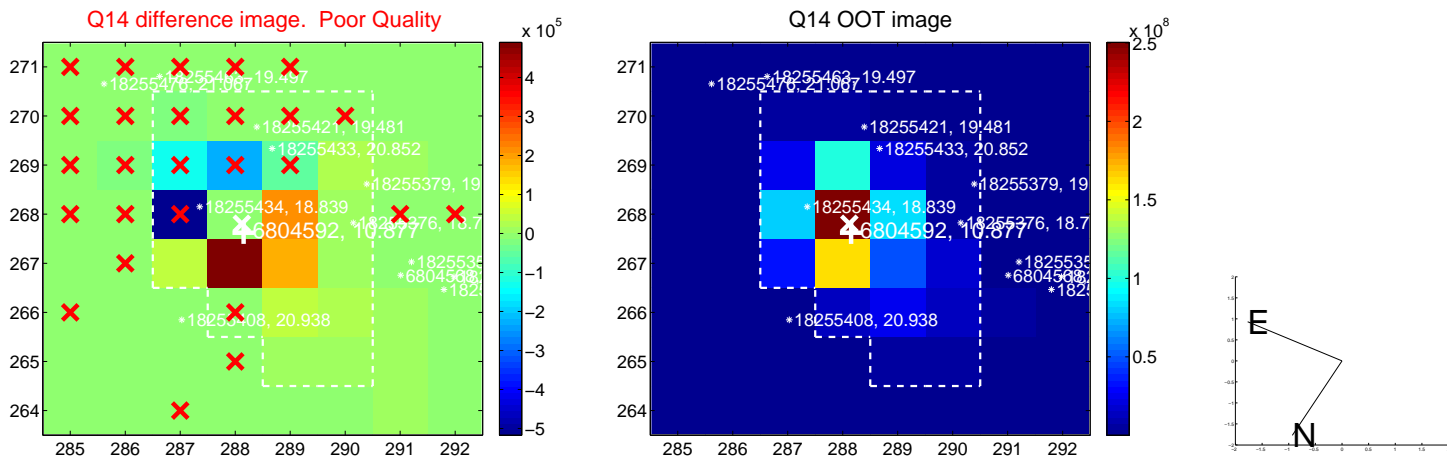
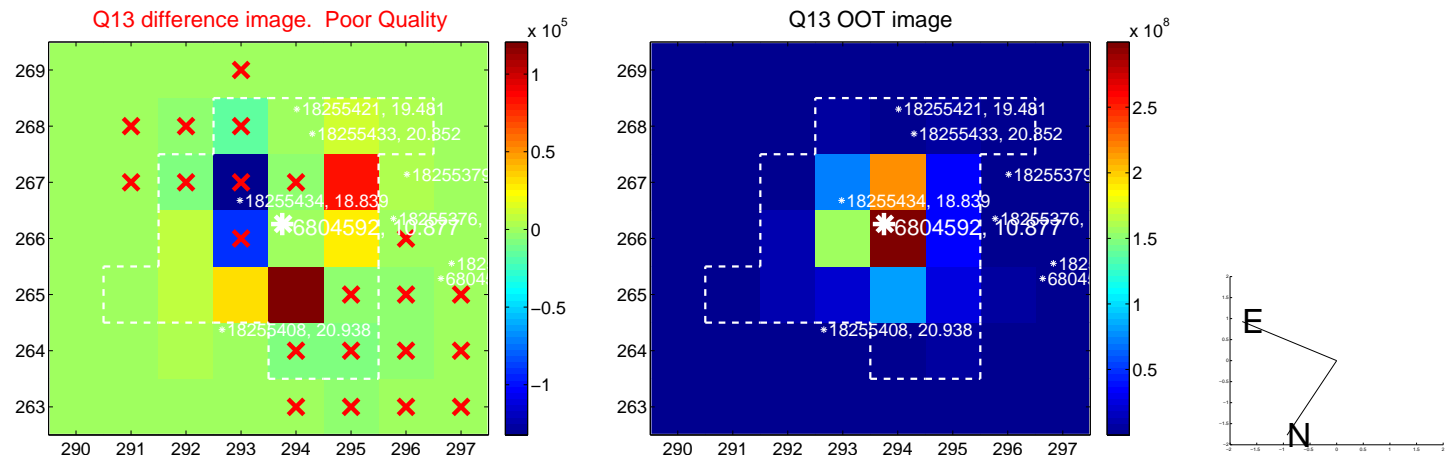
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



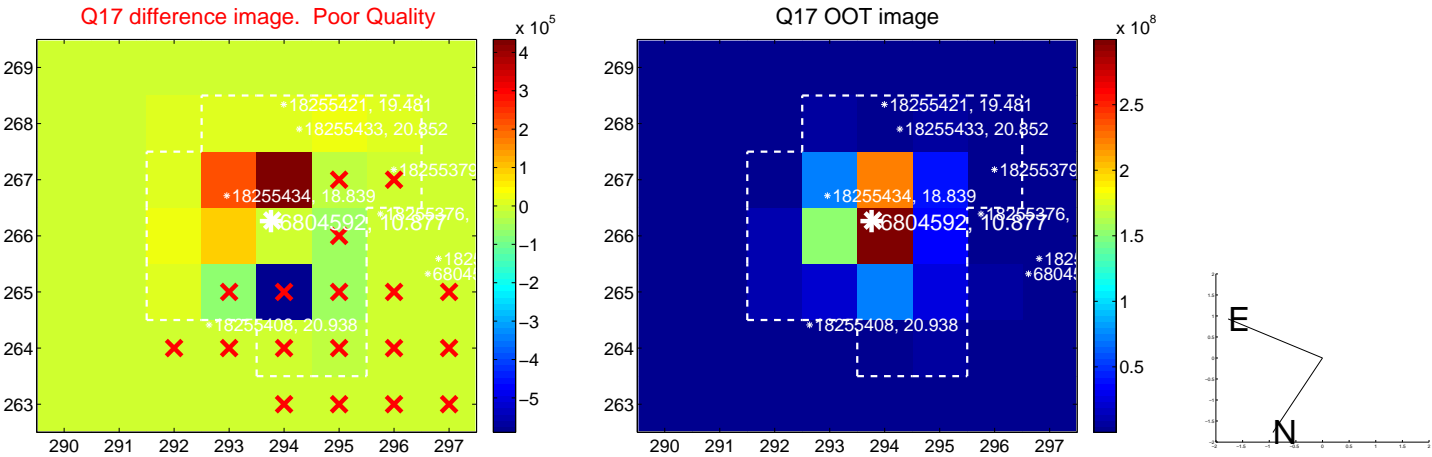
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

