

KIC 008189641

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})
008189641-01	OBS	No	0.970815	131.805967	3.2	8.223	8.5	10.8	2.44	9166	0.45	58868.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008189641-01	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.

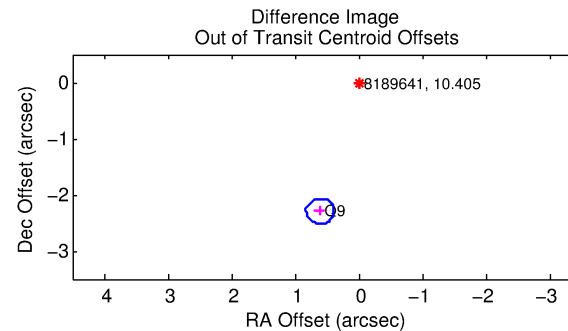
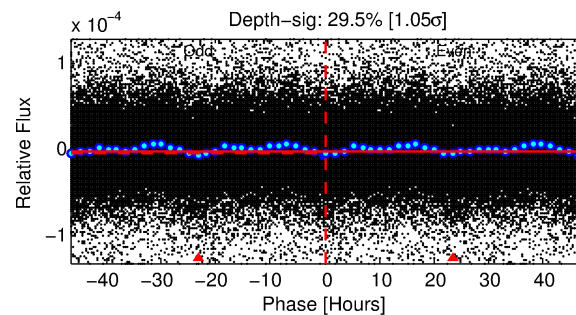
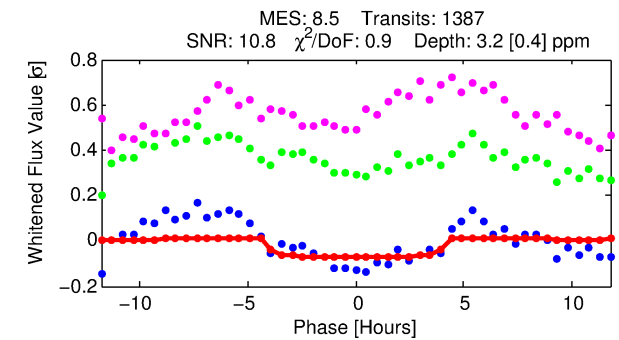
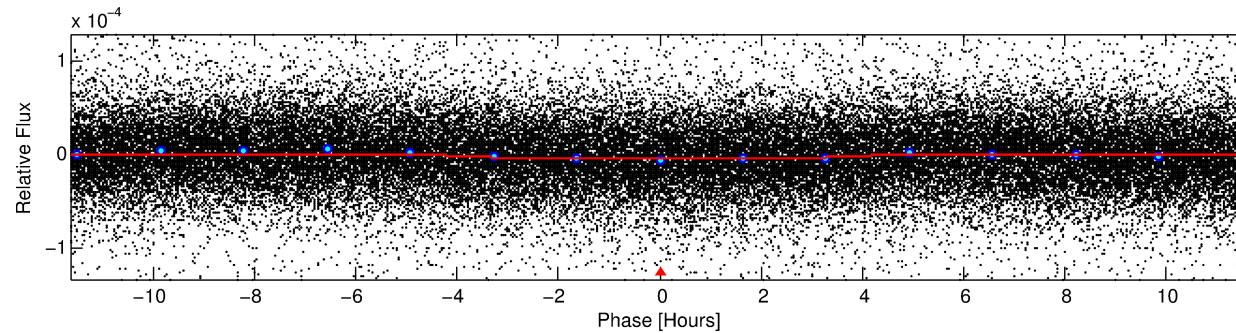
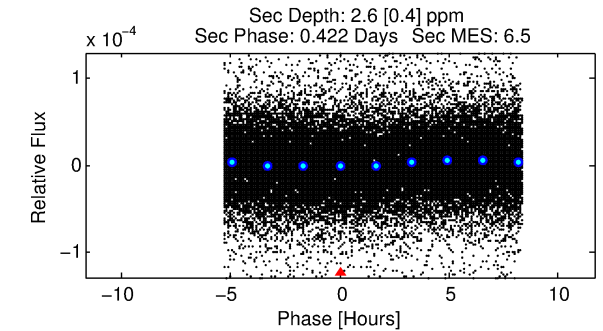
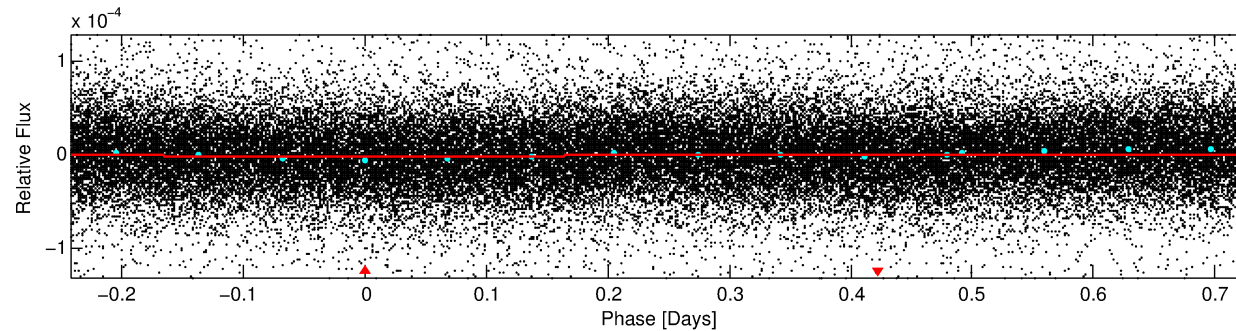
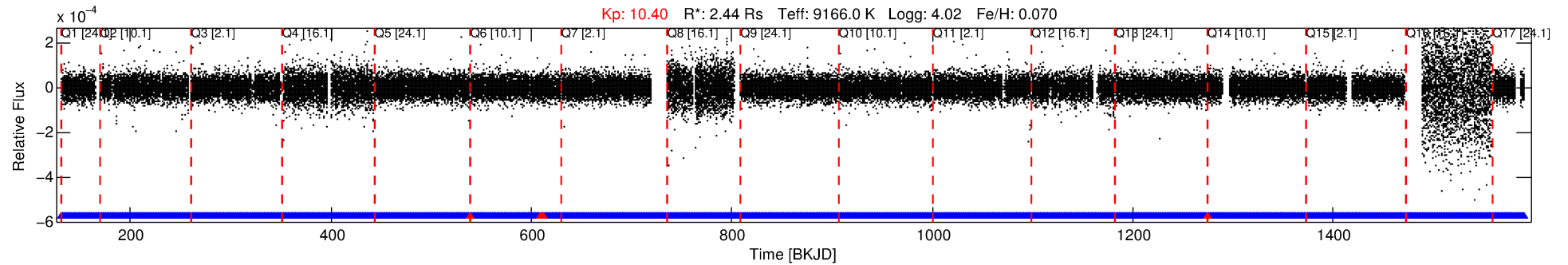
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008189641-01

No Significant Match Found

DV One-Page Summary

KIC: 8189641 Candidate: 1 of 1 Period: 0.971 d



DV Fit Results:

Period = 0.97082 [0.00002] d
Epoch = 131.8060 [0.0063] BKJD
Rp/R* = 0.0017 [0.0011]
a/R* = 1.12 [0.98]
b = 0.00 [2306.76]
Seff = 58868.51 [24866.06]
Teq = 3972 [419] K
Rp = 0.44 [0.33] Re
a = 0.0252 [0.0067] AU
Ag = 4.61 [6.39] [0.57σ]
Teff = 8998 [3020] K [1.65σ]

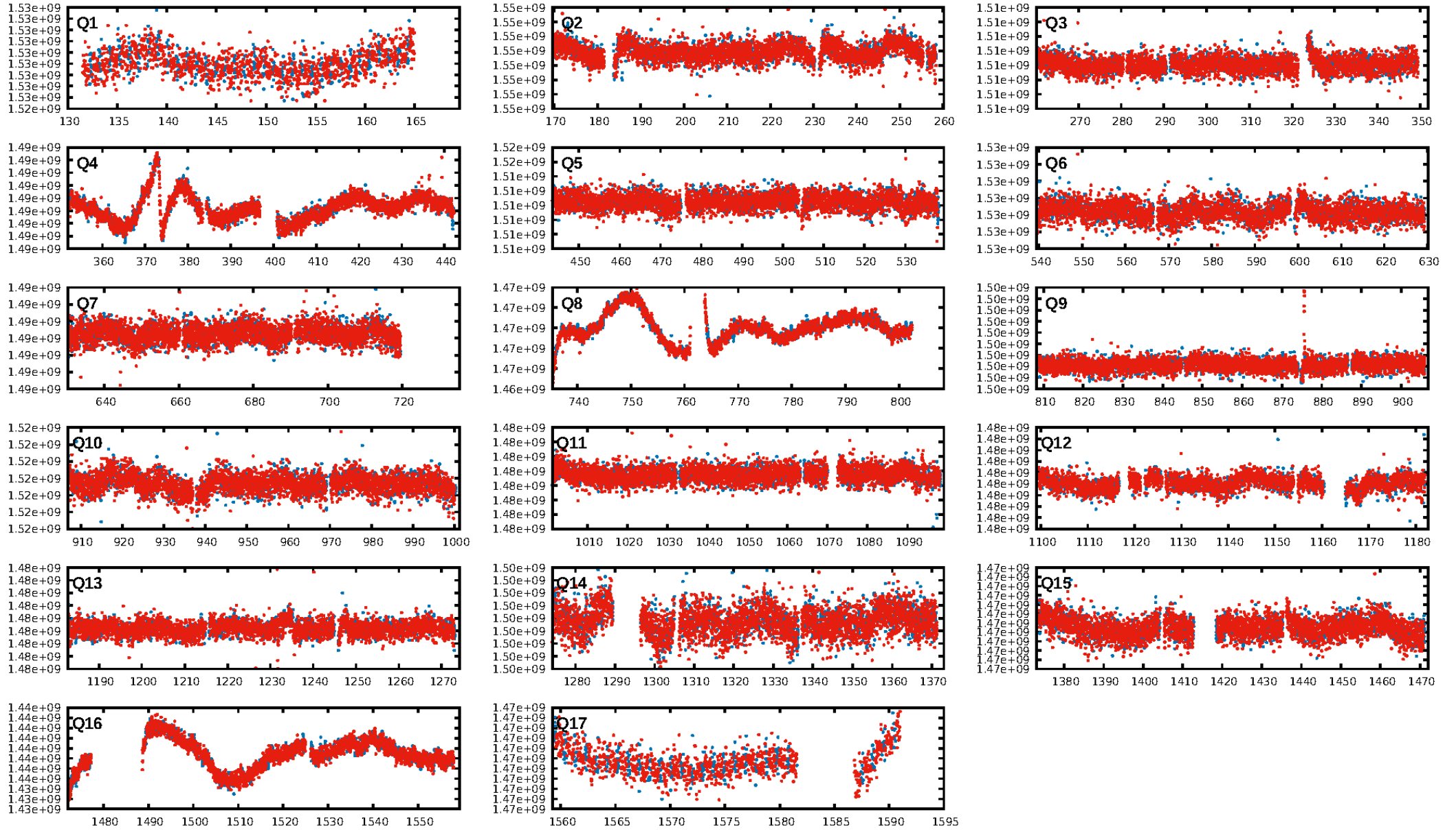
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1320/1324]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.371 arcsec [32.15σ]
KicOffset-rm: 2.951 arcsec [39.93σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [17/17]

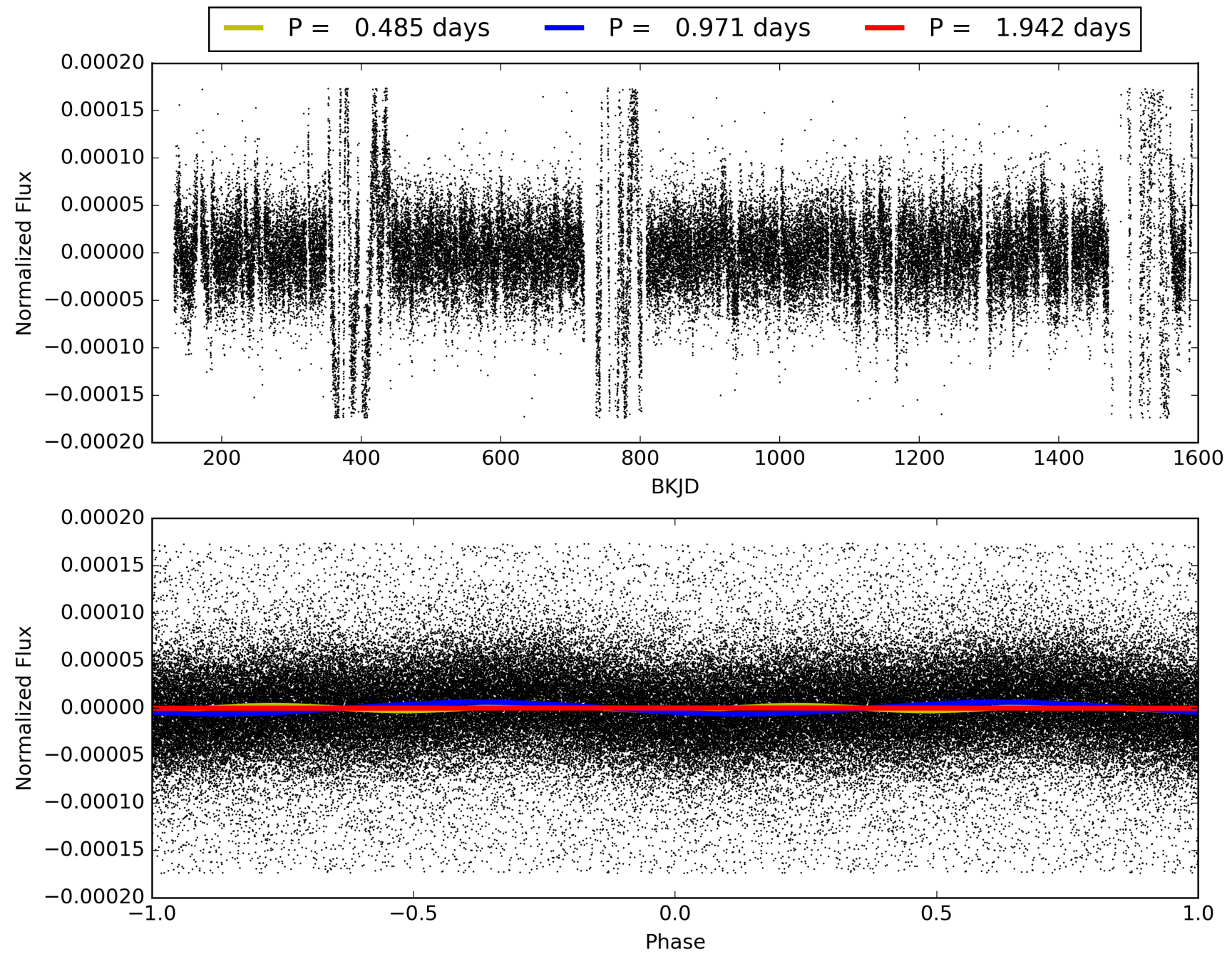
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 19:07:06 Z

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

TCE 008189641-01, PDC Light Curves

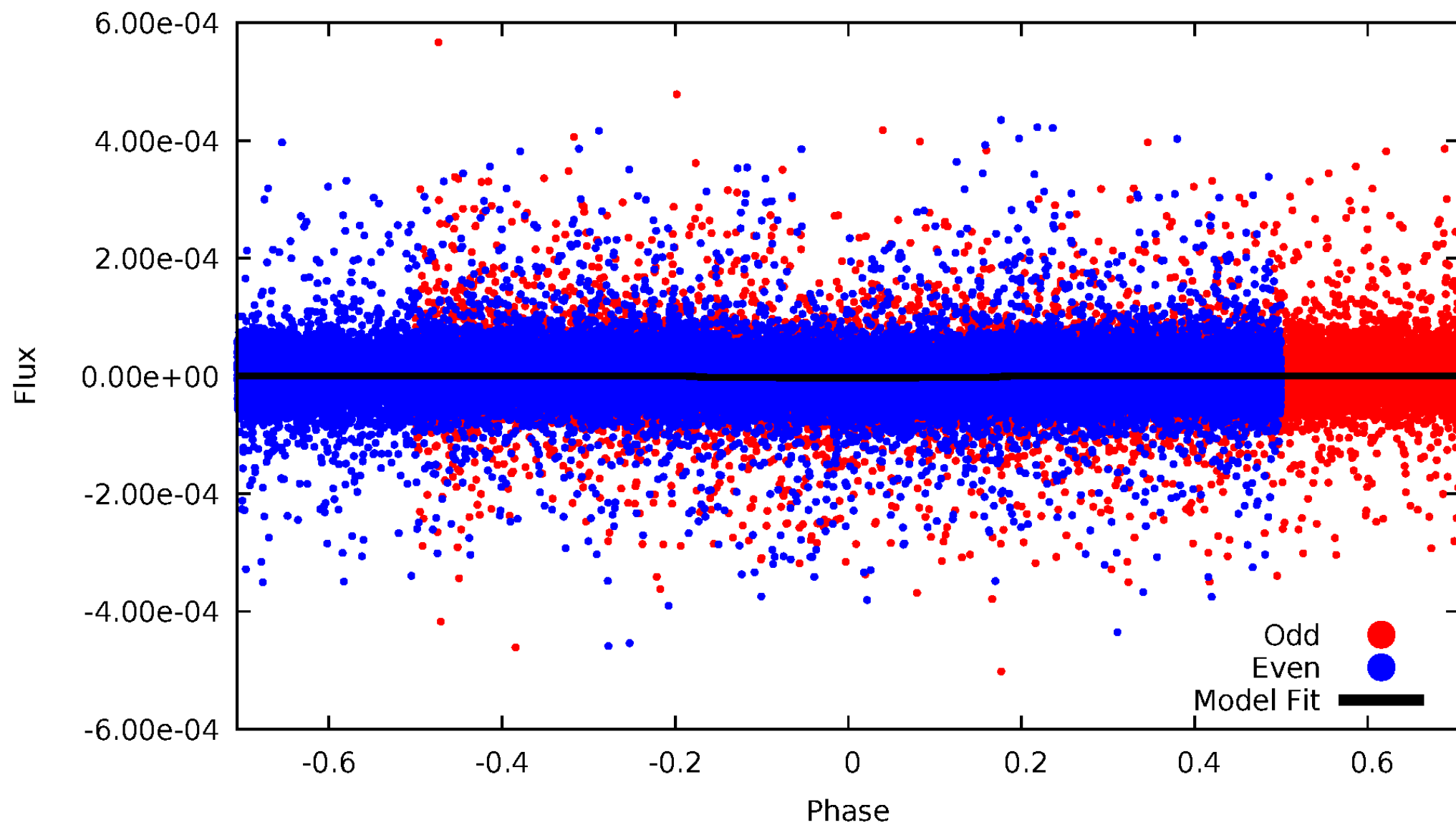


TCE 008189641-01



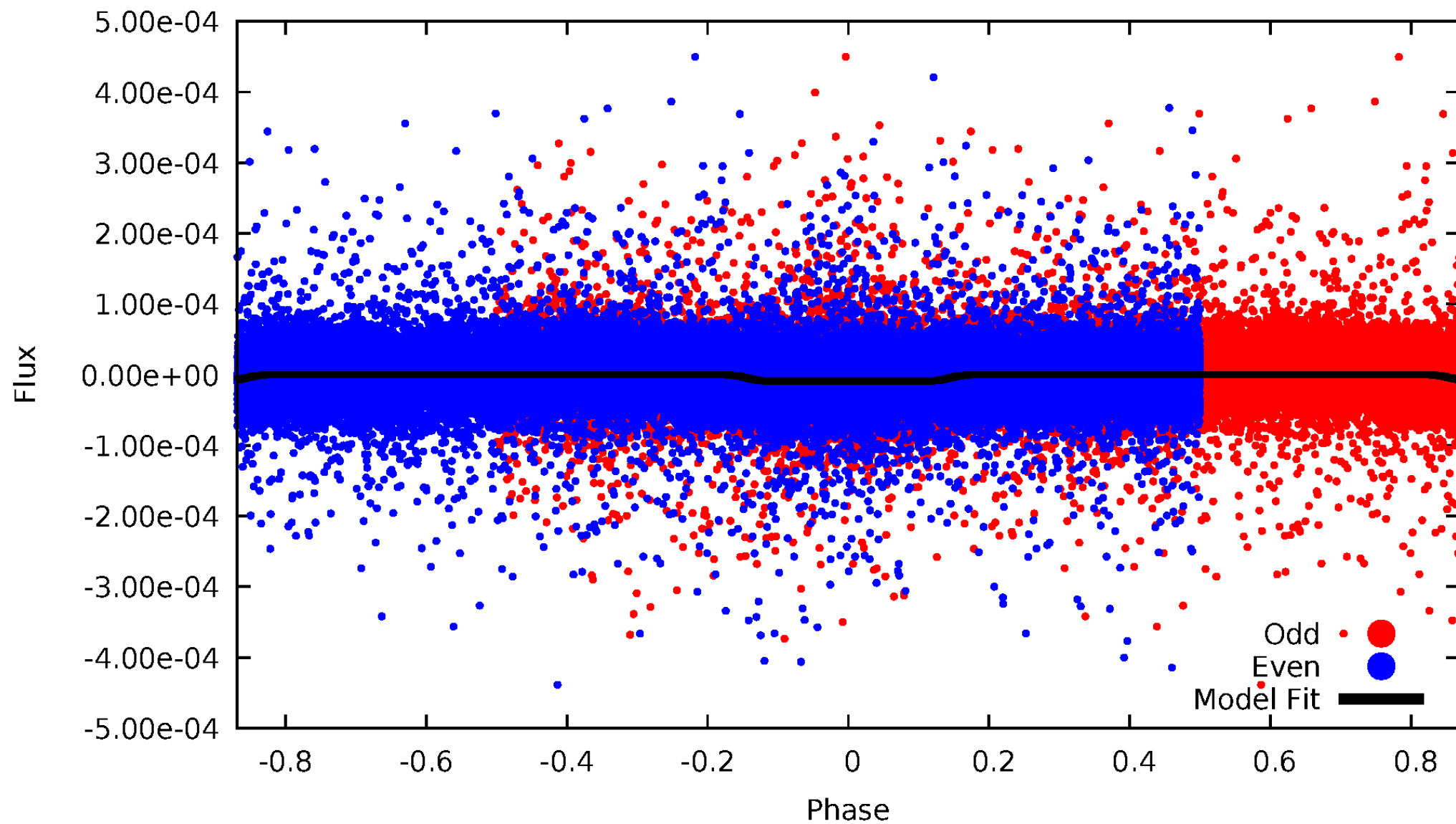
DV Odd/Even

TCE 008189641-01



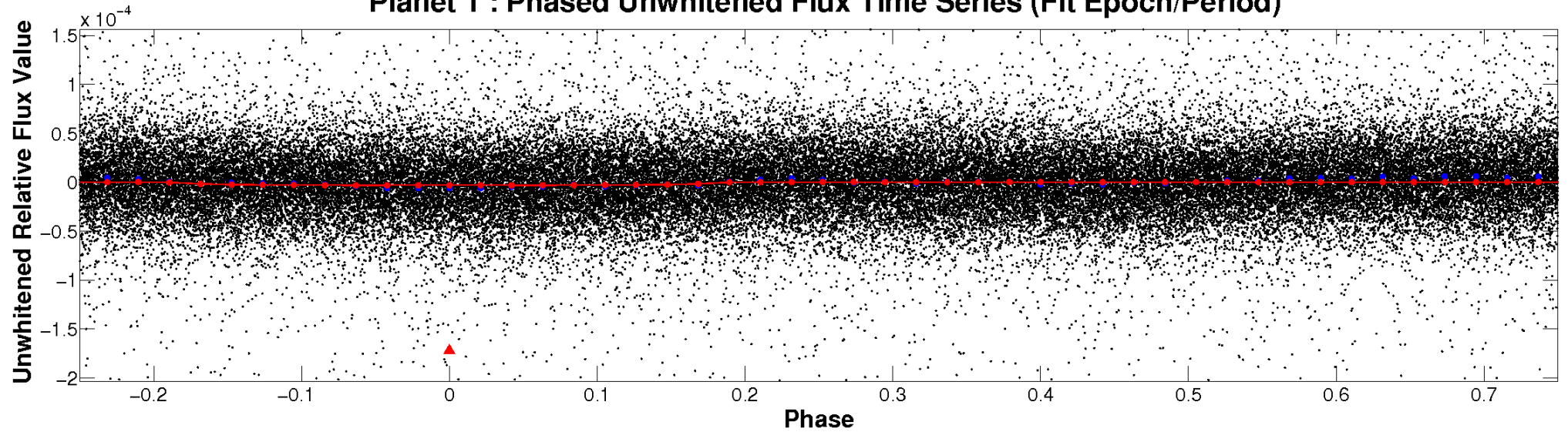
ALT Odd/Even

TCE 008189641-01

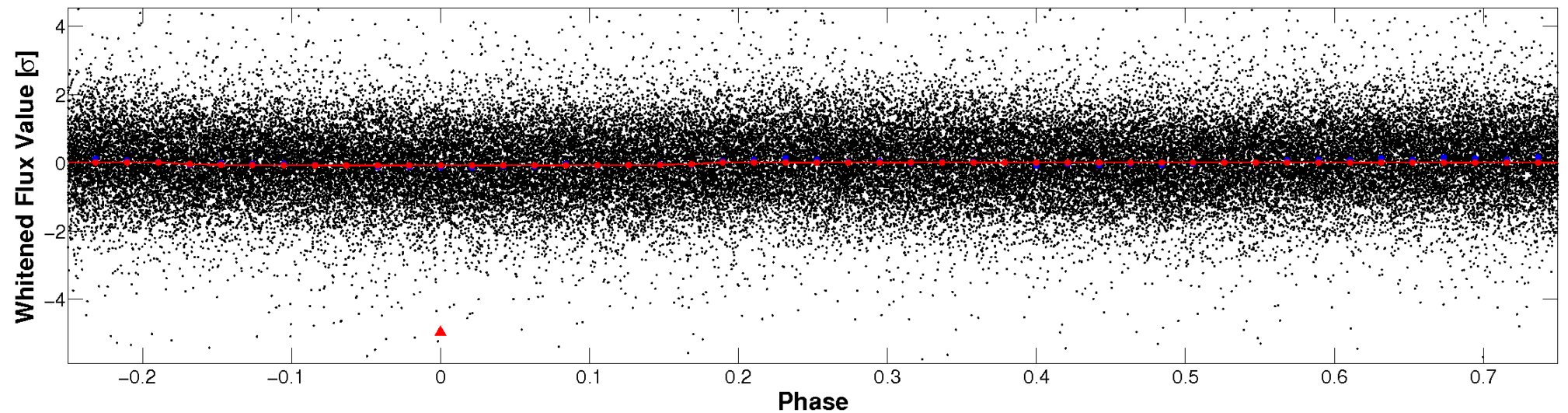


Non-Whitened Vs. Whitened Light Curve

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

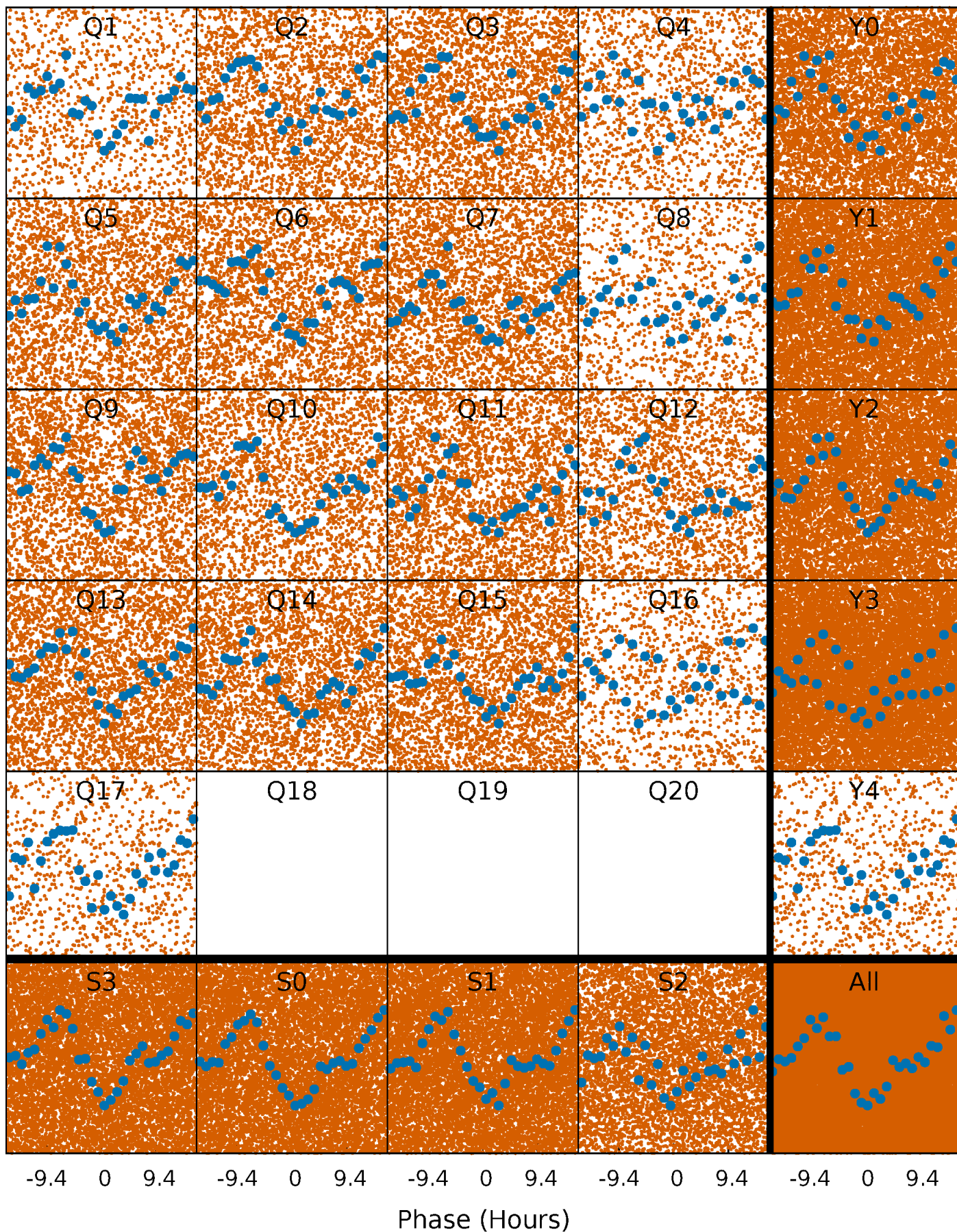


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



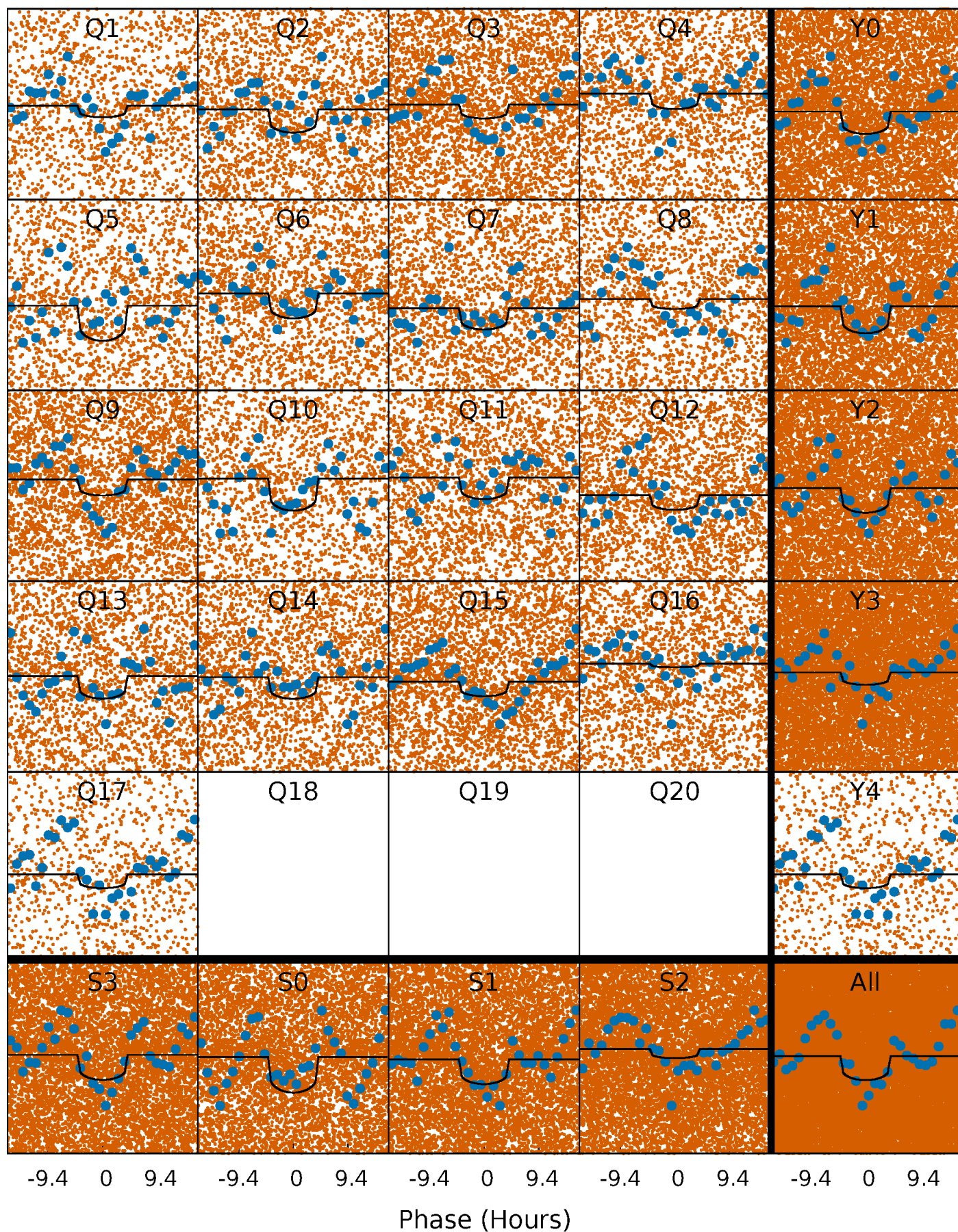
PDC Quarter-Phased Transit Curves

TCE 008189641-01 P= 0.970815 Days $T_0=131.805967$ (BKJD)



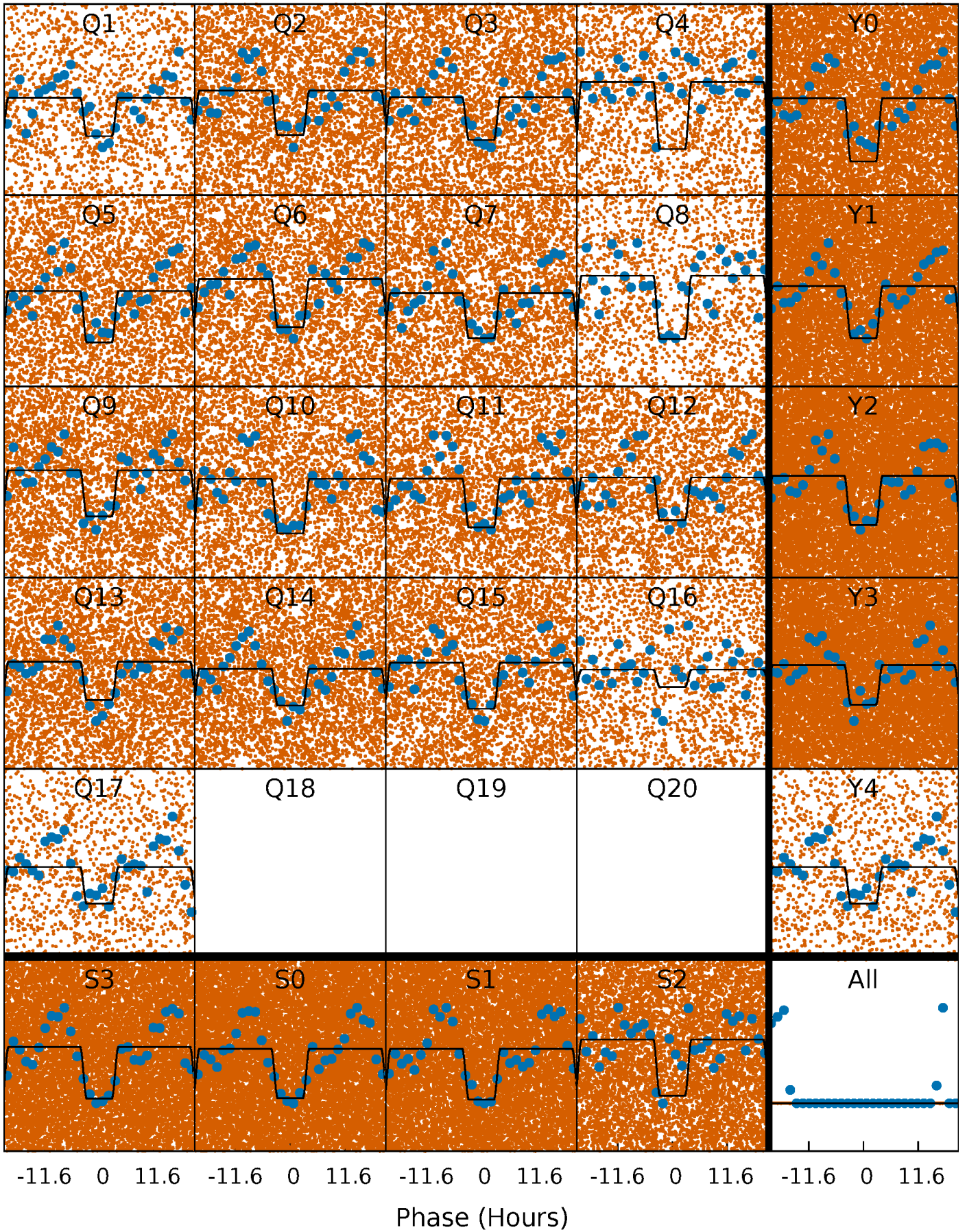
DV Quarter-Phased Transit Curves

TCE 008189641-01 P= 0.970815 Days $T_0=131.805967$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

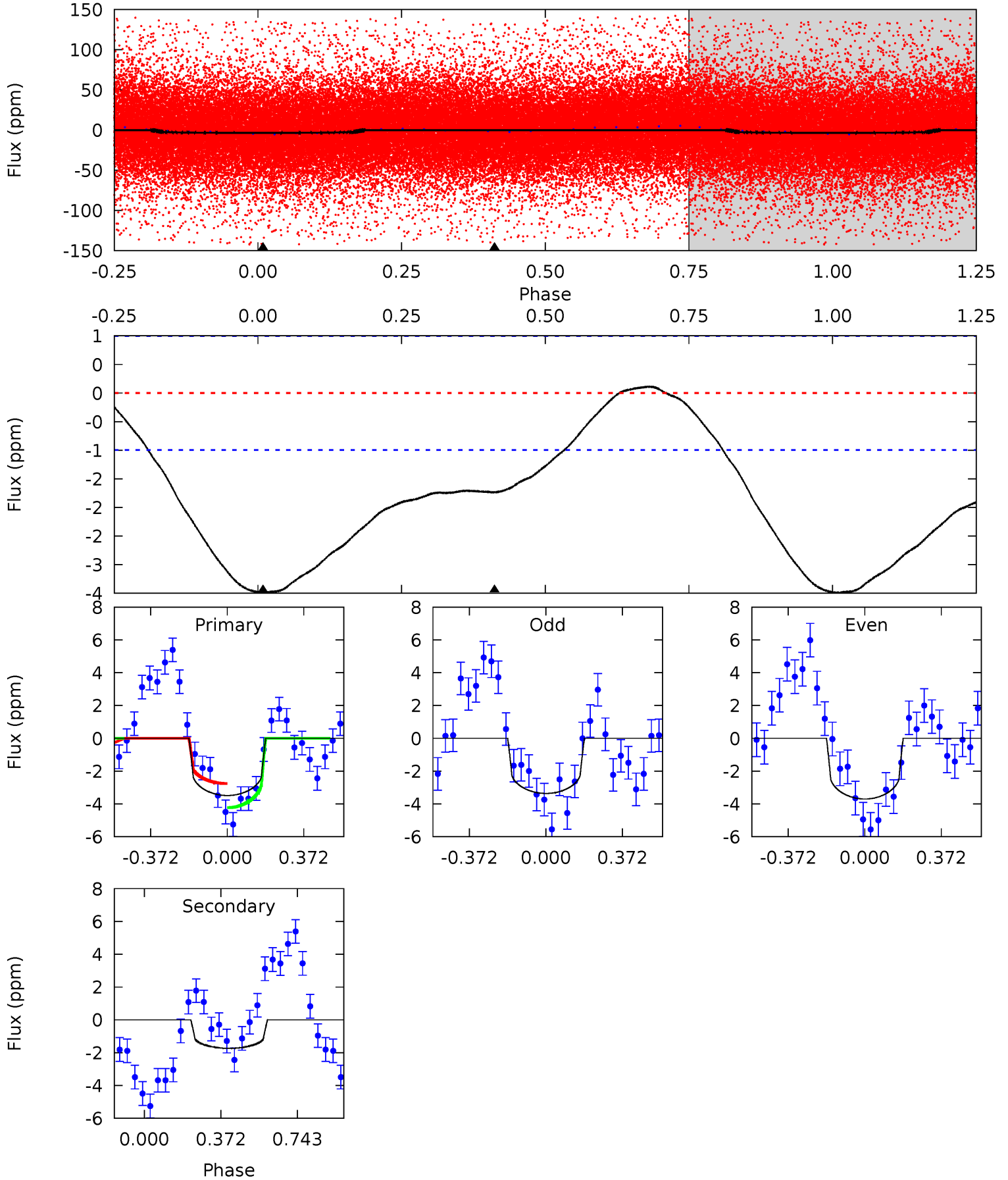
TCE 008189641-01 P= 0.970871 Days $T_0=131.811736$ (BKJD)



DV Model-Shift Uniqueness Test

008189641-01, P = 0.970815 Days, E = 130.835152 Days

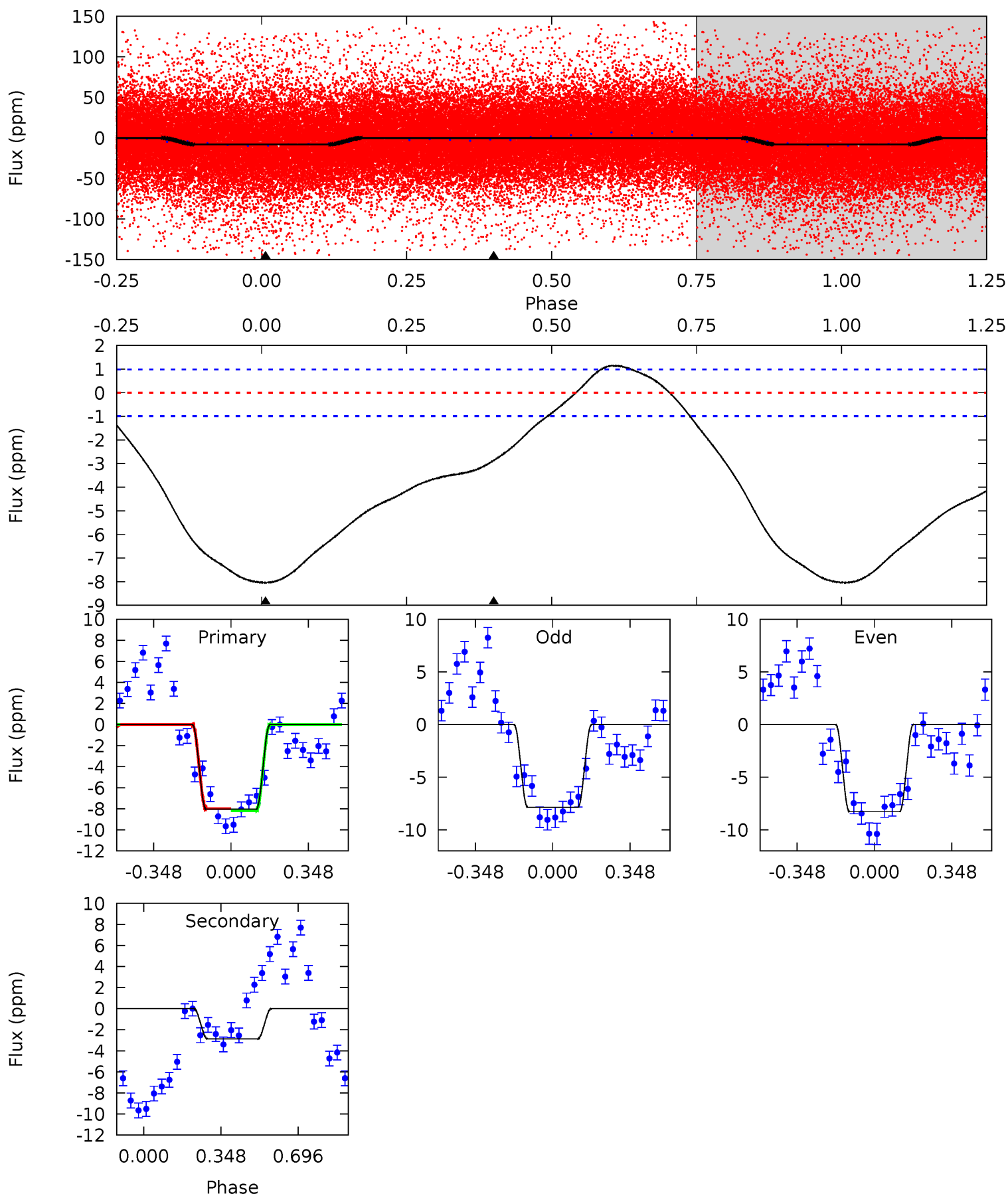
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.0	7.46	0	0	4.28	0.89	0.60	15.0	15.0	7.46	7.46	0.74	1.25	0.03	3.25



Alt Model-Shift Uniqueness Test

008189641-01, P = 0.970871 Days, E = 130.840865 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.9	12.5	0	0	4.30	0.94	3.03	34.9	34.9	12.5	12.5	0.91	0.90	0.12	0.42



Stellar Parameters For KIC 008189641

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	9166^{+292}_{-401}	$4.022^{+0.209}_{-0.171}$	$0.070^{+0.150}_{-0.700}$	$2.436^{+0.774}_{-0.774}$	$2.280^{+0.346}_{-0.643}$	$0.222^{+0.294}_{-0.110}$
	+3%/-4%	+5%/-4%	+214%/-1000%	+32%/-32%	+15%/-28%	+132%/-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 008189641-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 0	$0.46^{+0.30}_{-0.27}$	5476^{+470}_{-401}	7170^{+6770}_{-1794}	$2.674^{+13.592}_{-1.660}$
Alt.	-3 ± 0	$0.76^{+0.35}_{-0.27}$	5510^{+425}_{-428}	6206^{+1959}_{-1191}	$1.682^{+2.463}_{-0.854}$

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 $A_{obs} \gg 1.0$

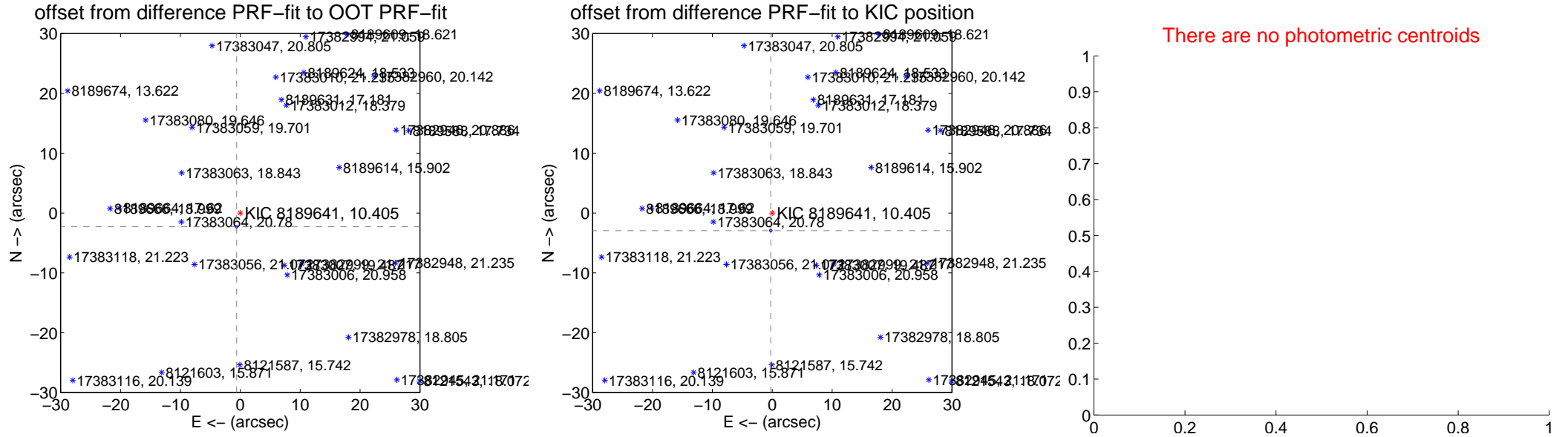
DV Centroid Data

Supplemental centroid analysis for 008189641-01. **Kepler magnitude: 10.40.** Transit SNR 10.80

There are 1 quarters with good PRF difference image offsets

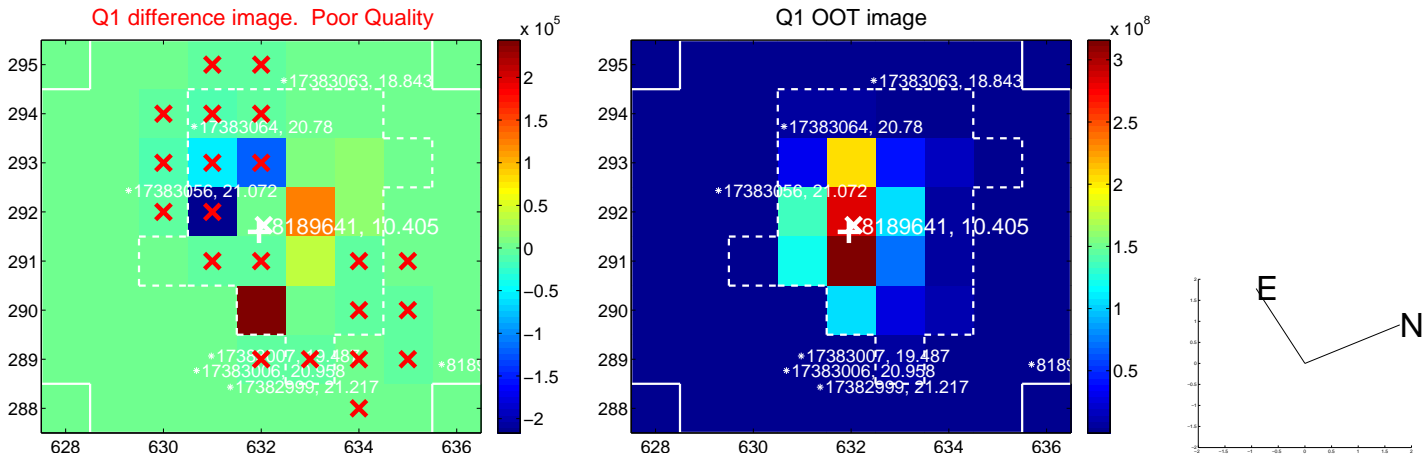
The direct PRF centroid is offset from the target star catalog position by about 0.74 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.371 \pm 0.074	32.15	0.605 \pm 0.071	-2.293 \pm 0.074
PRF-fit source offset from KIC position	2.951 \pm 0.074	39.93	0.246 \pm 0.071	-2.941 \pm 0.074
photometric centroid source offset	—	—	—	—

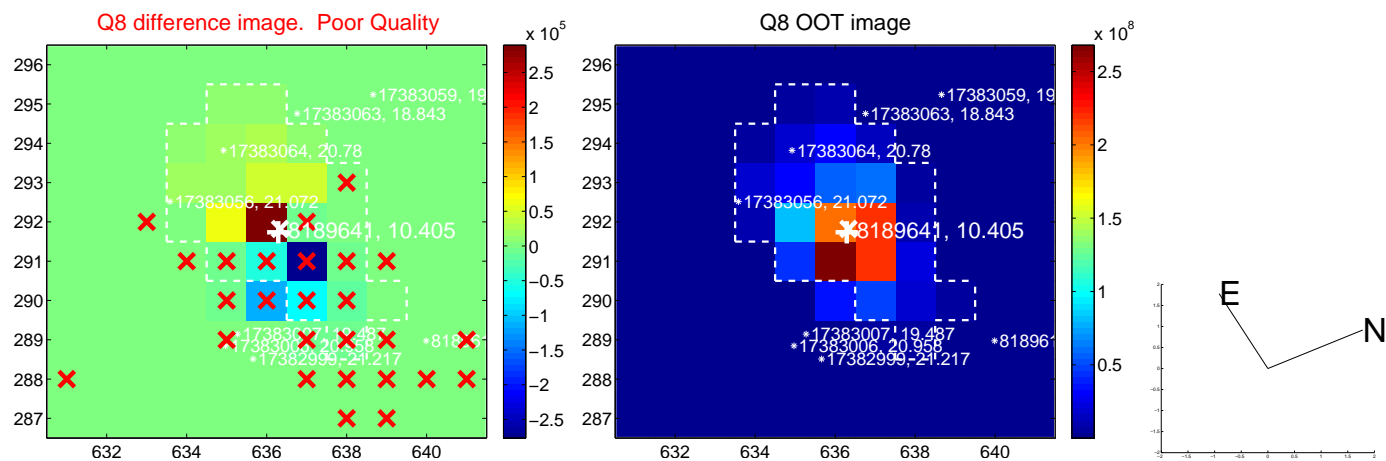
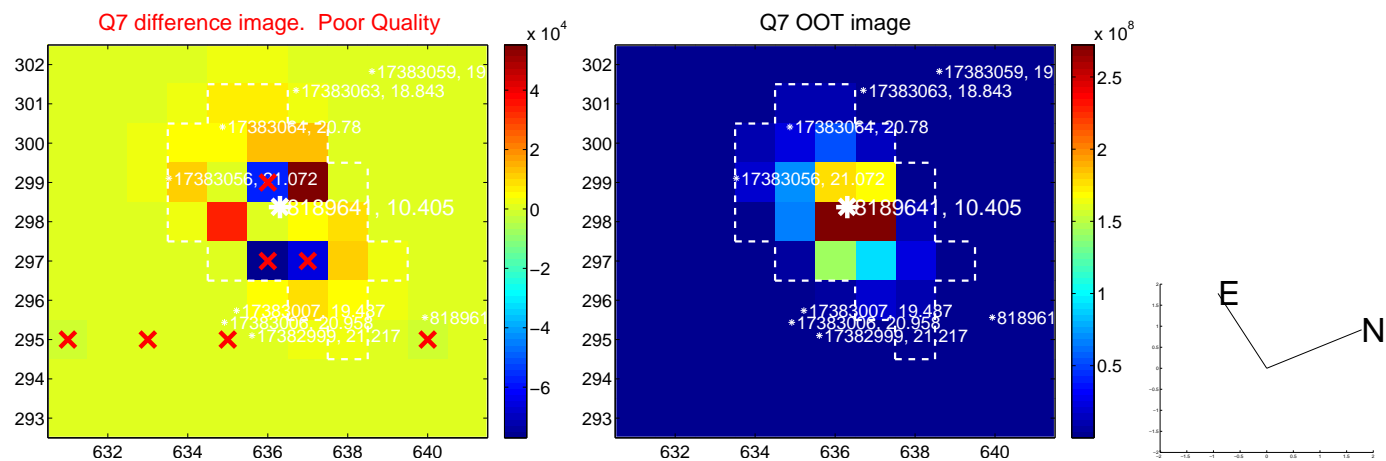
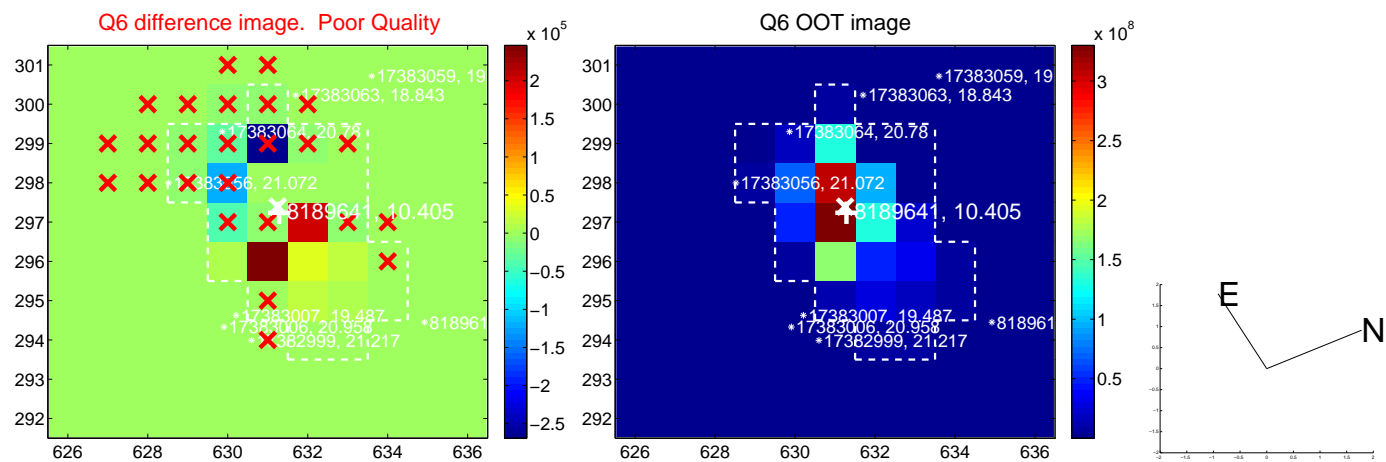
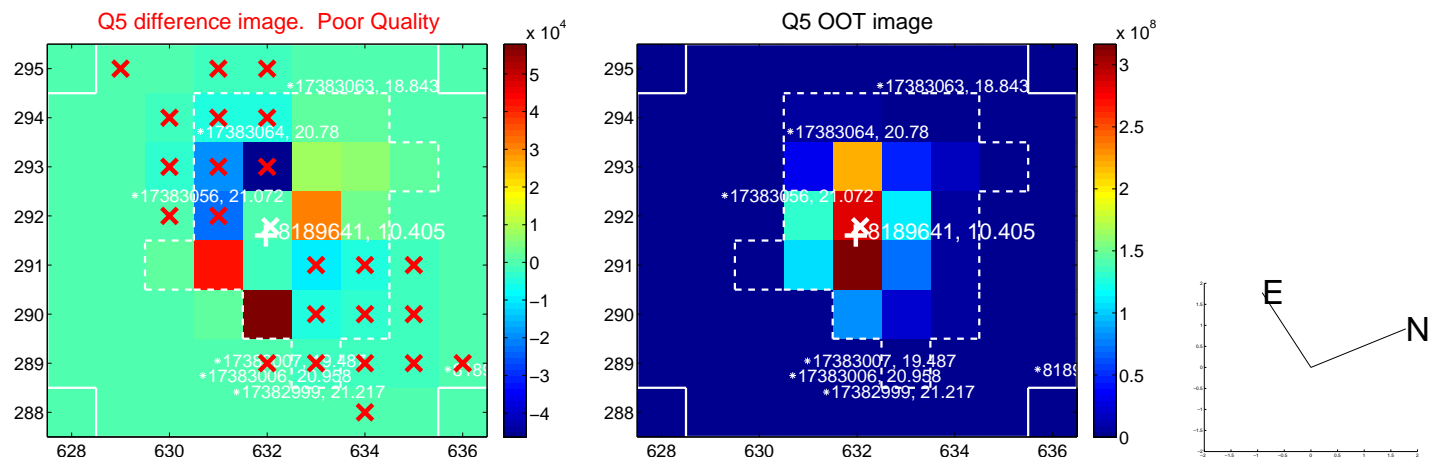


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

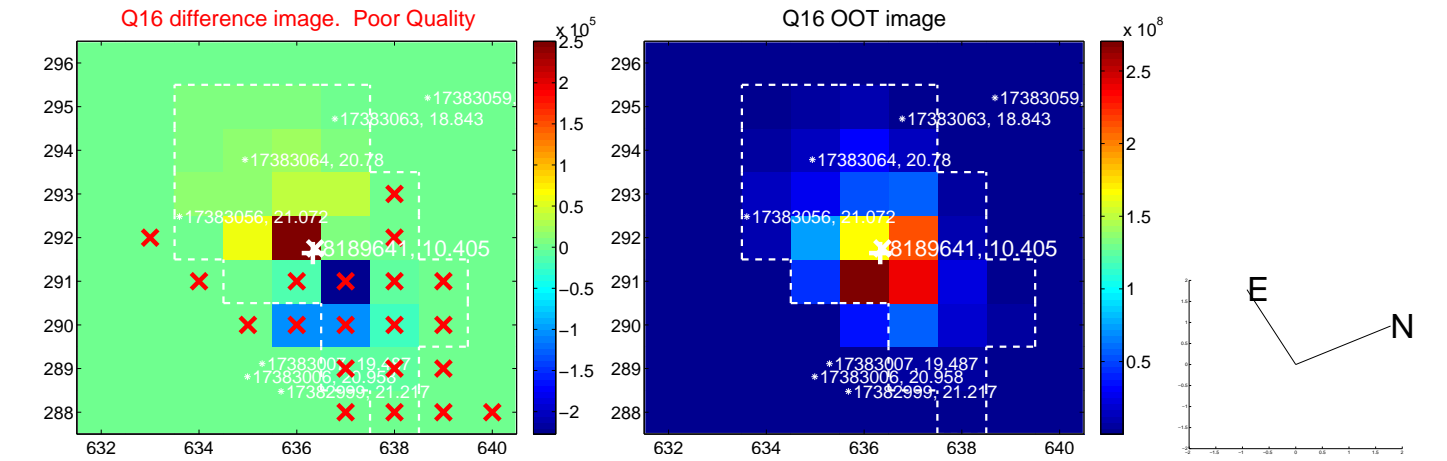
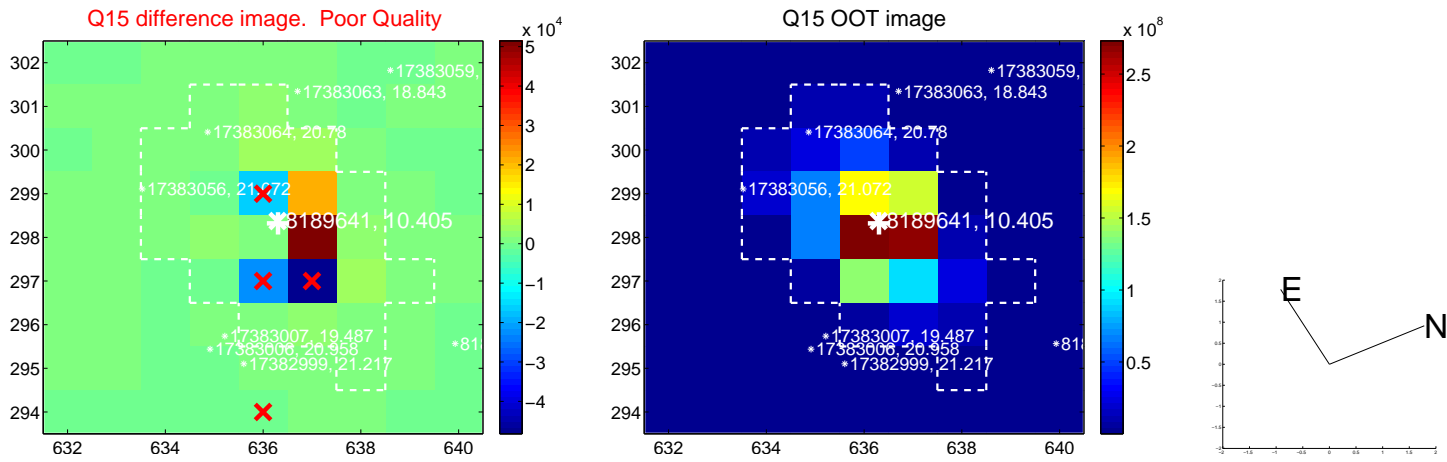
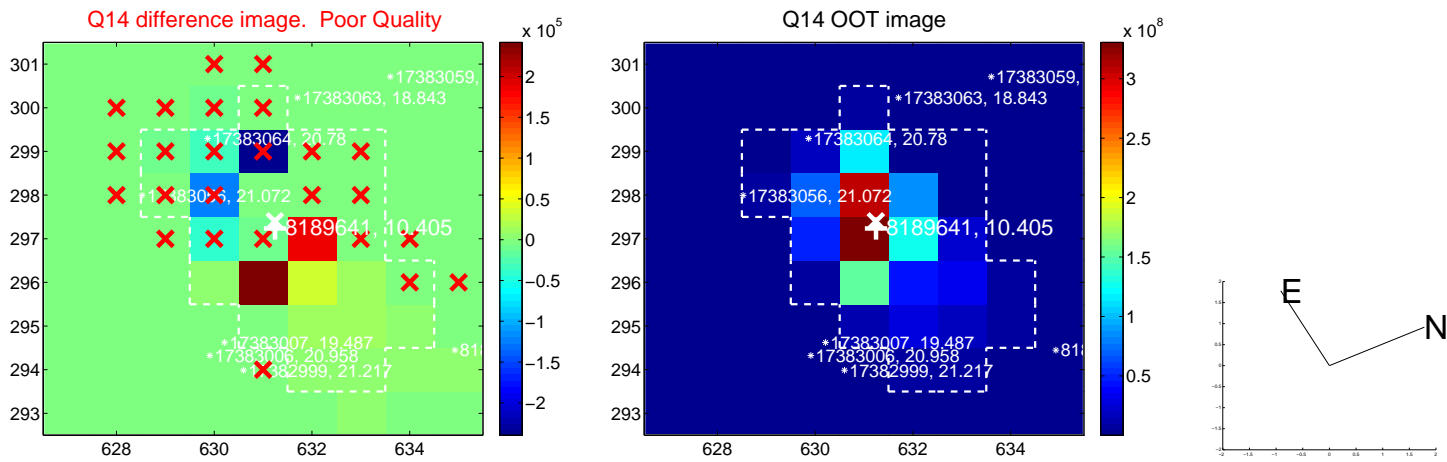
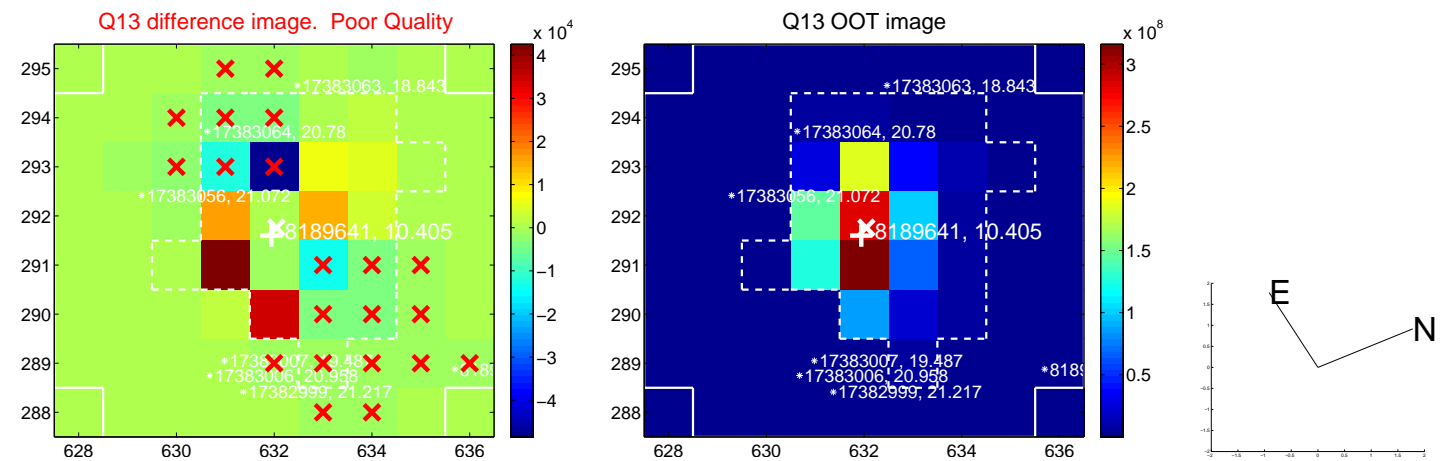
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



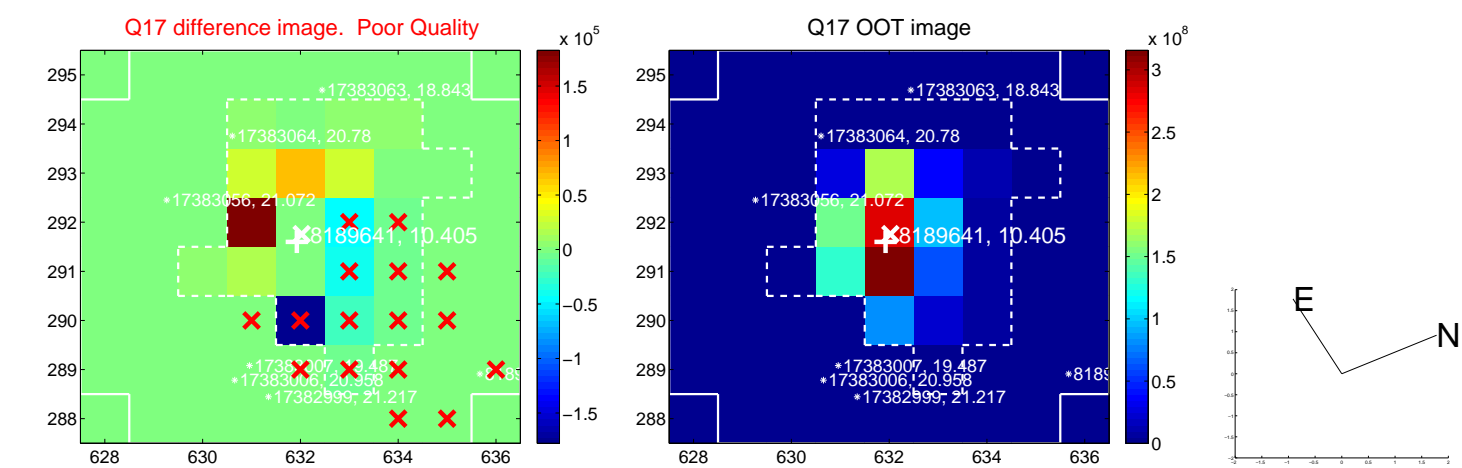
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

