

KIC 006719893

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})
006719893-01	OBS	No	0.536079	132.000777	2568.1	2.000	11.0	-1.0	2.65	5080	13.18	28414.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006719893-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

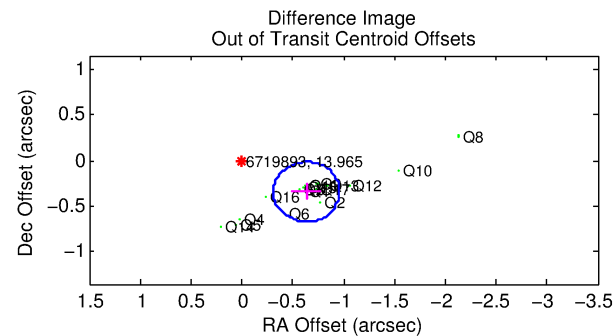
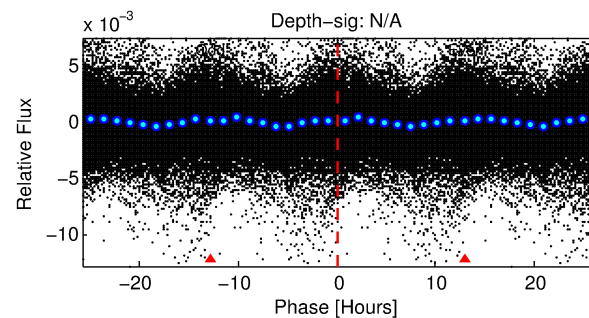
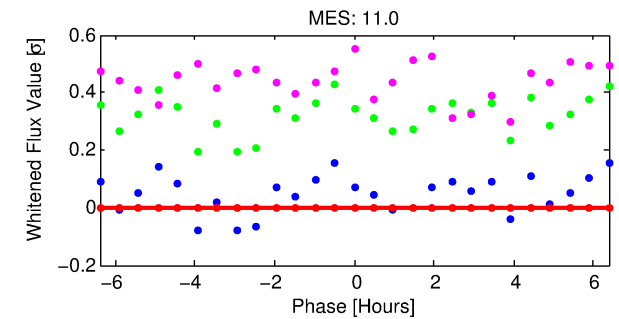
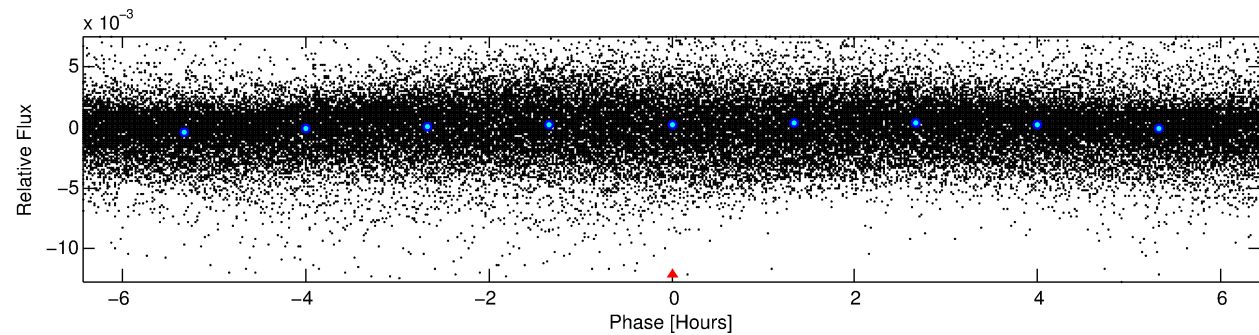
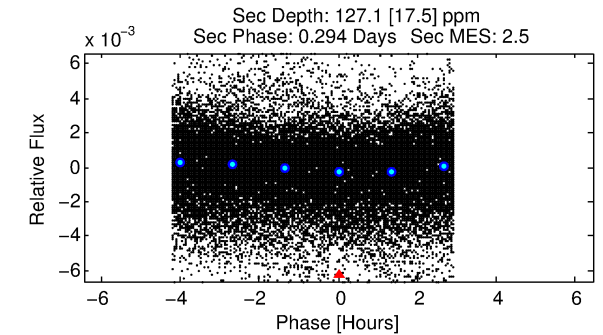
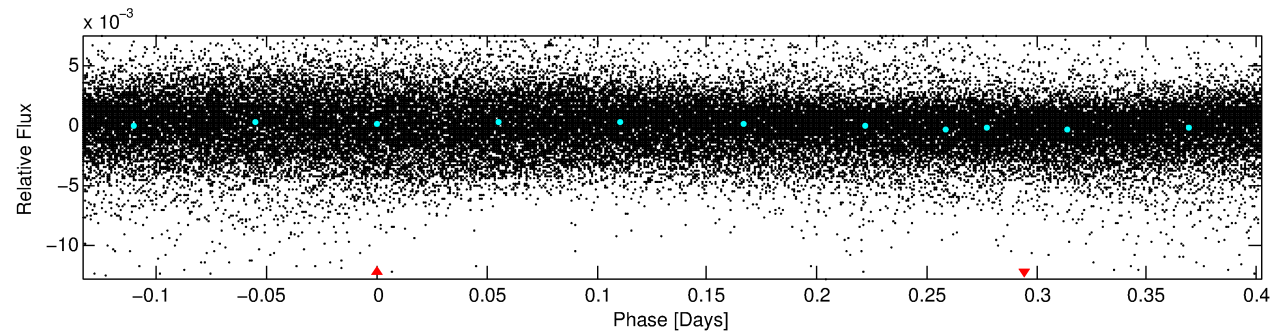
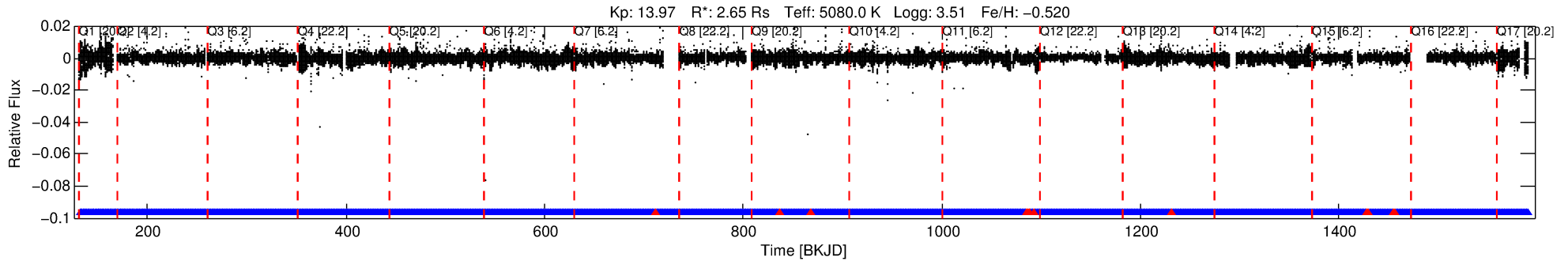
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006719893-01

No Significant Match Found

DV One-Page Summary

KIC: 6719893 Candidate: 1 of 1 Period: 0.536 d



TPS TCE Results:

Period = 0.53608 d
Epoch = 132.0008 BKJD

DV fit results are unavailable

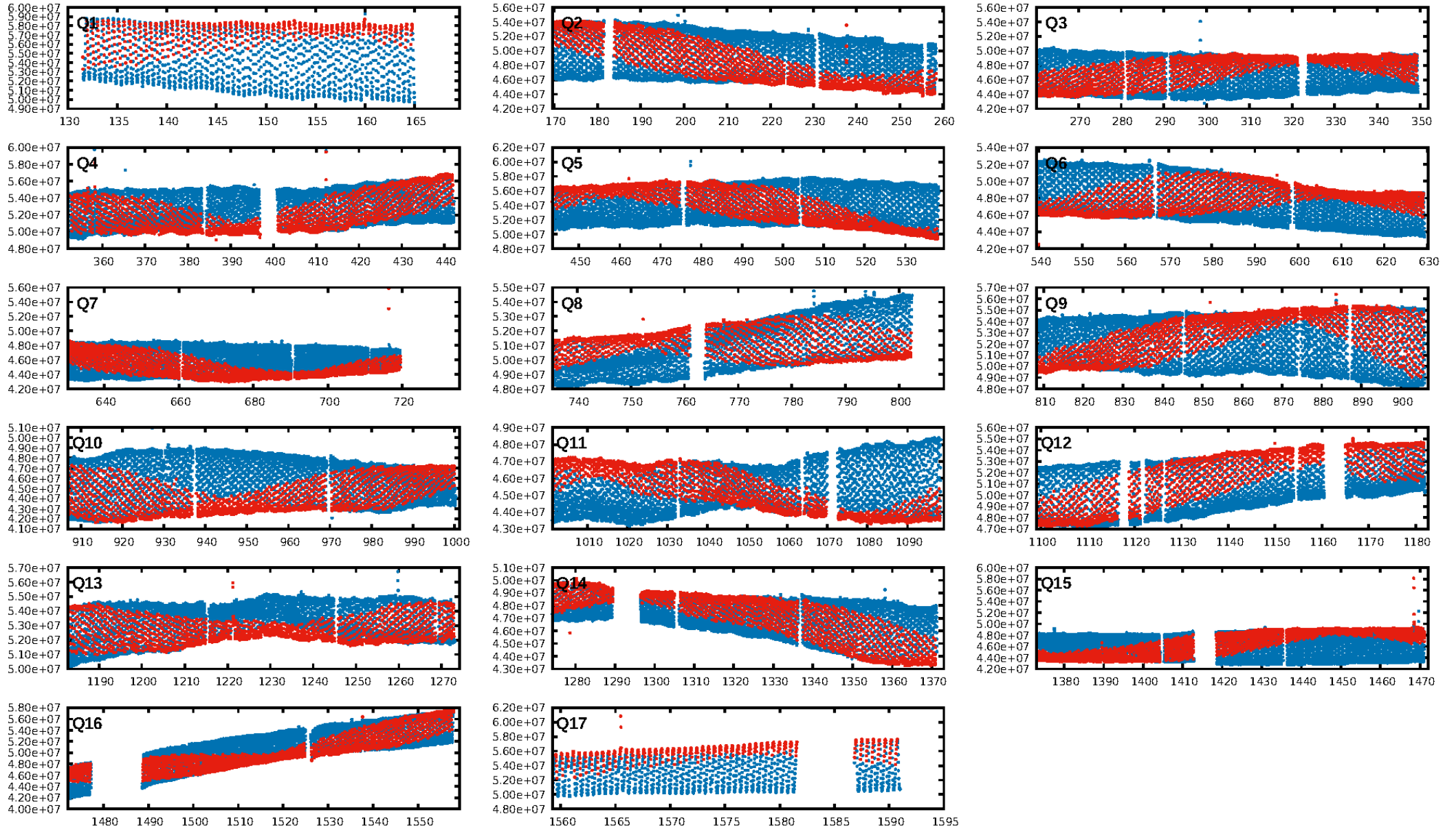
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.15e-26
RollingBand-fgt: 1.00 [2392/2404]
GhostDiagnostic-chr: -1.464
Centroid-sig: 2.8%
Centroid-so: 0.954 arcsec [85.53σ]
OotOffset-rm: 0.720 arcsec [6.61σ]
KicOffset-rm: 0.149 arcsec [1.21σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 1.00 [17/17]

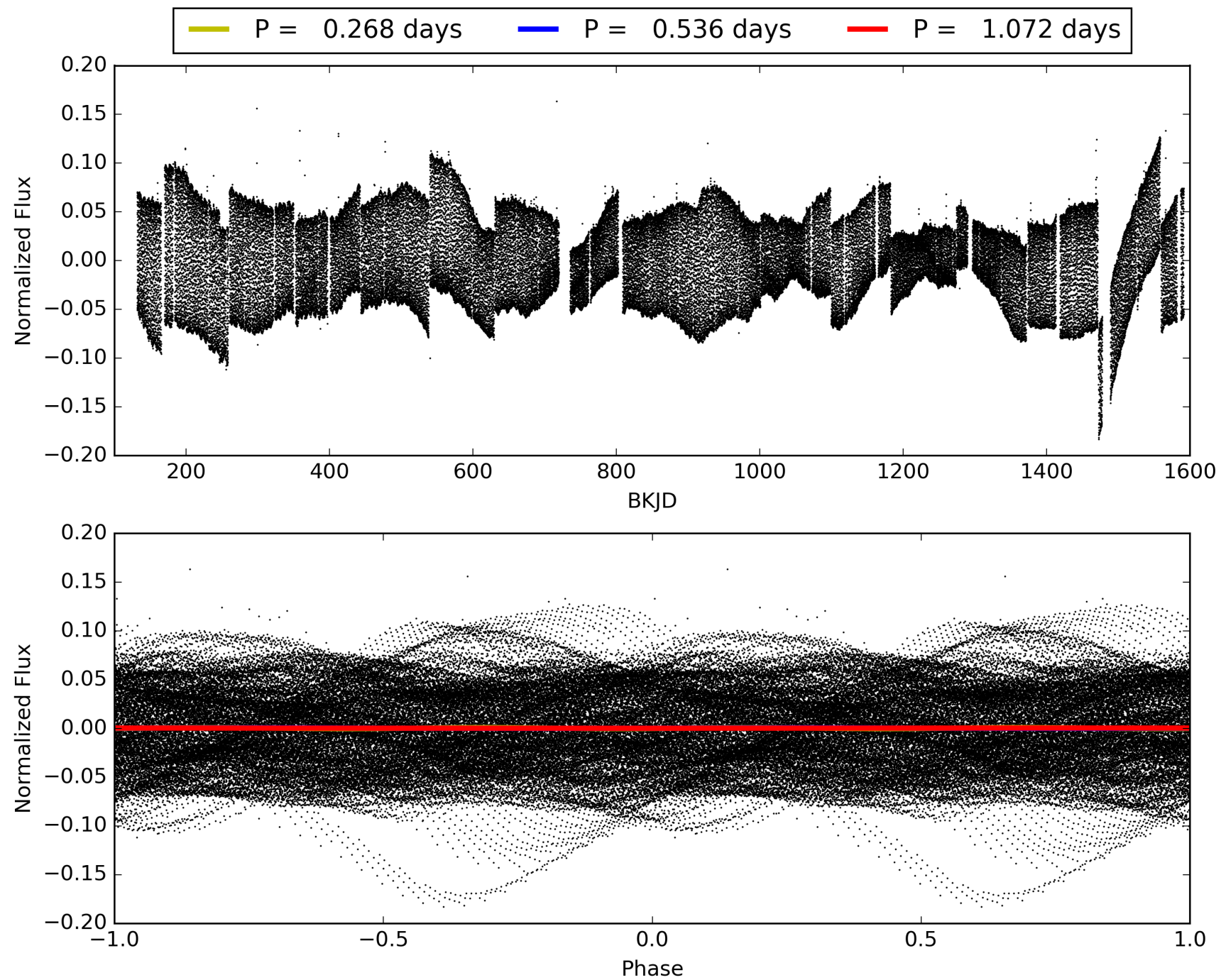
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:09:45 Z

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

TCE 006719893-01, PDC Light Curves

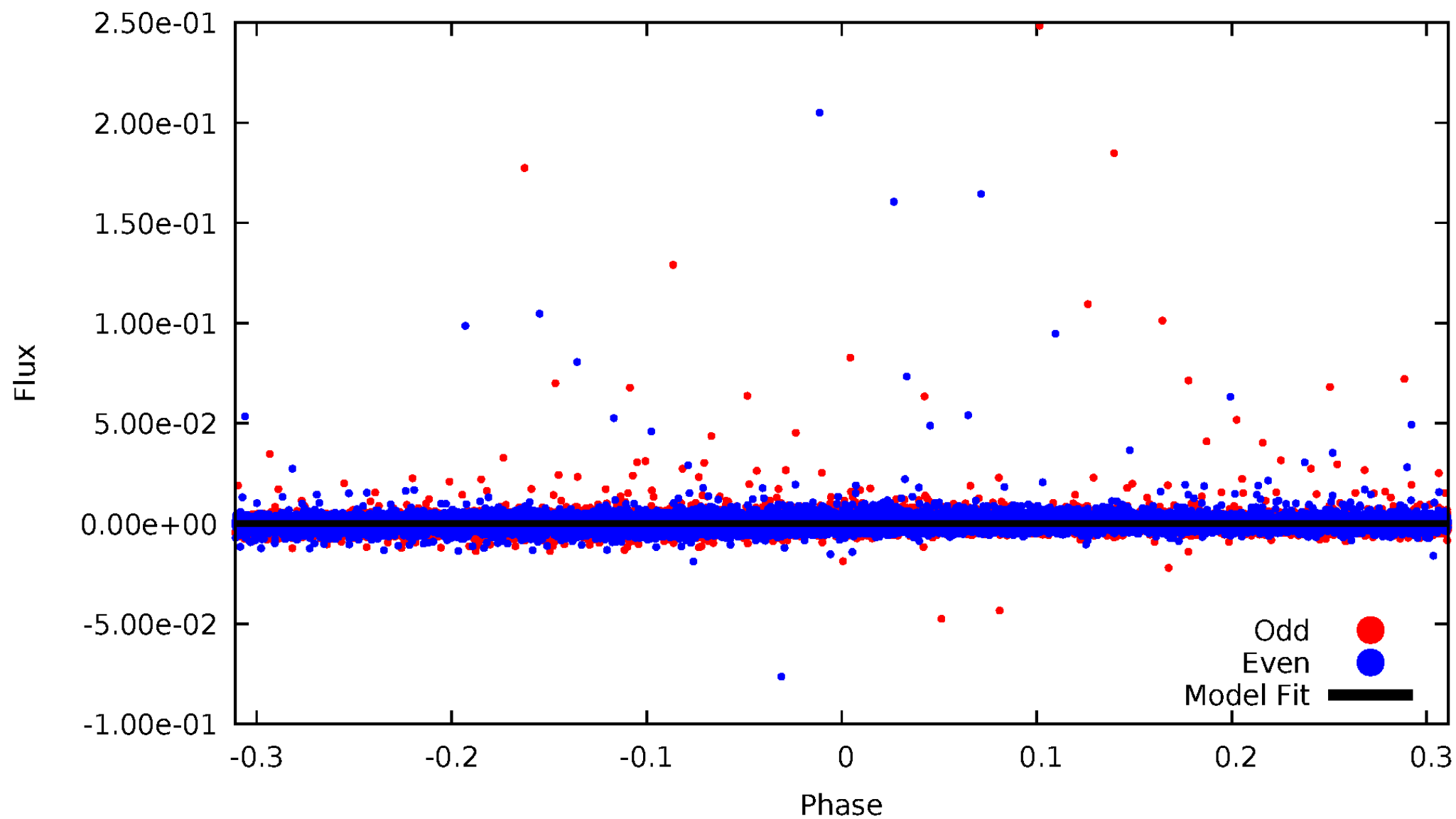


TCE 006719893-01



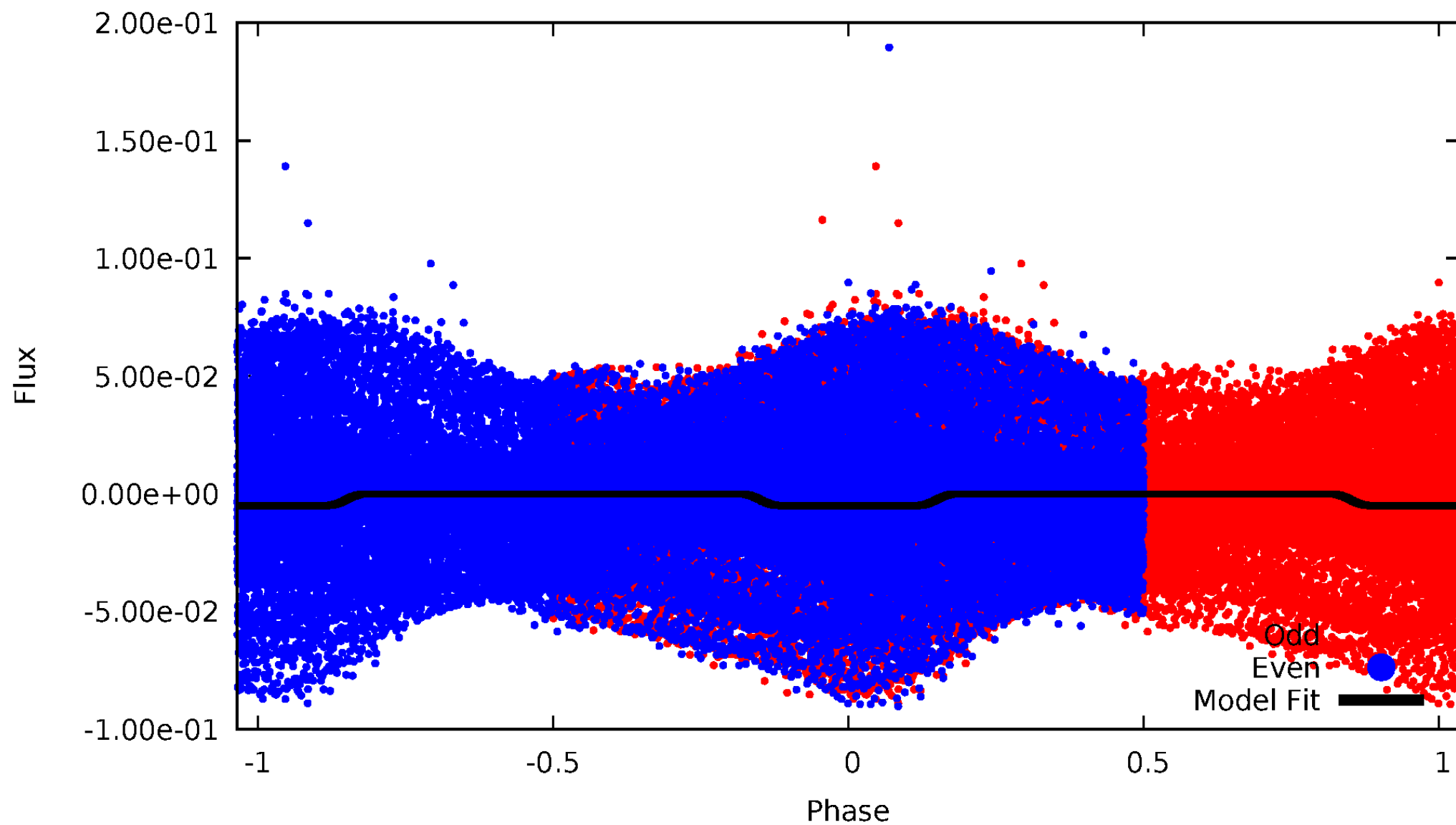
DV Odd/Even

TCE 006719893-01

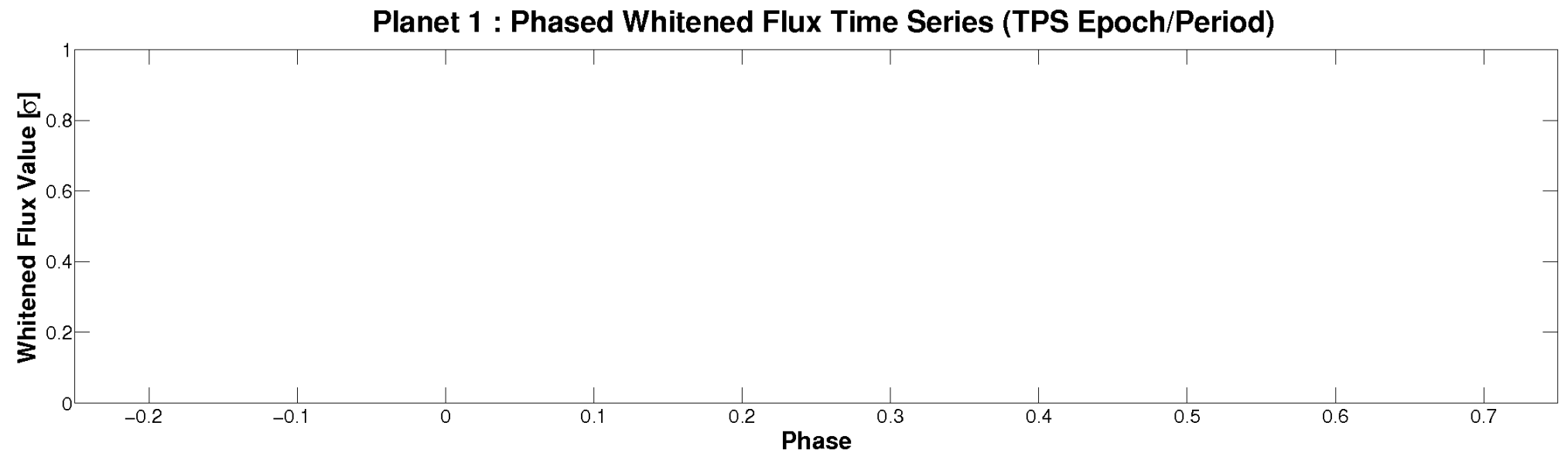
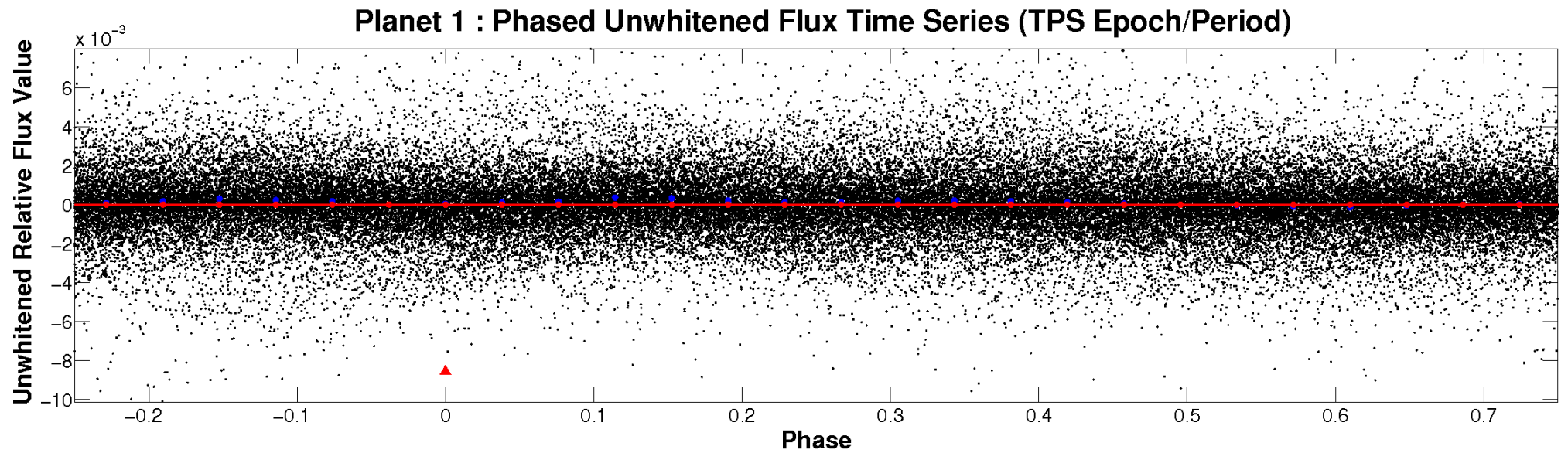


ALT Odd/Even

TCE 006719893-01

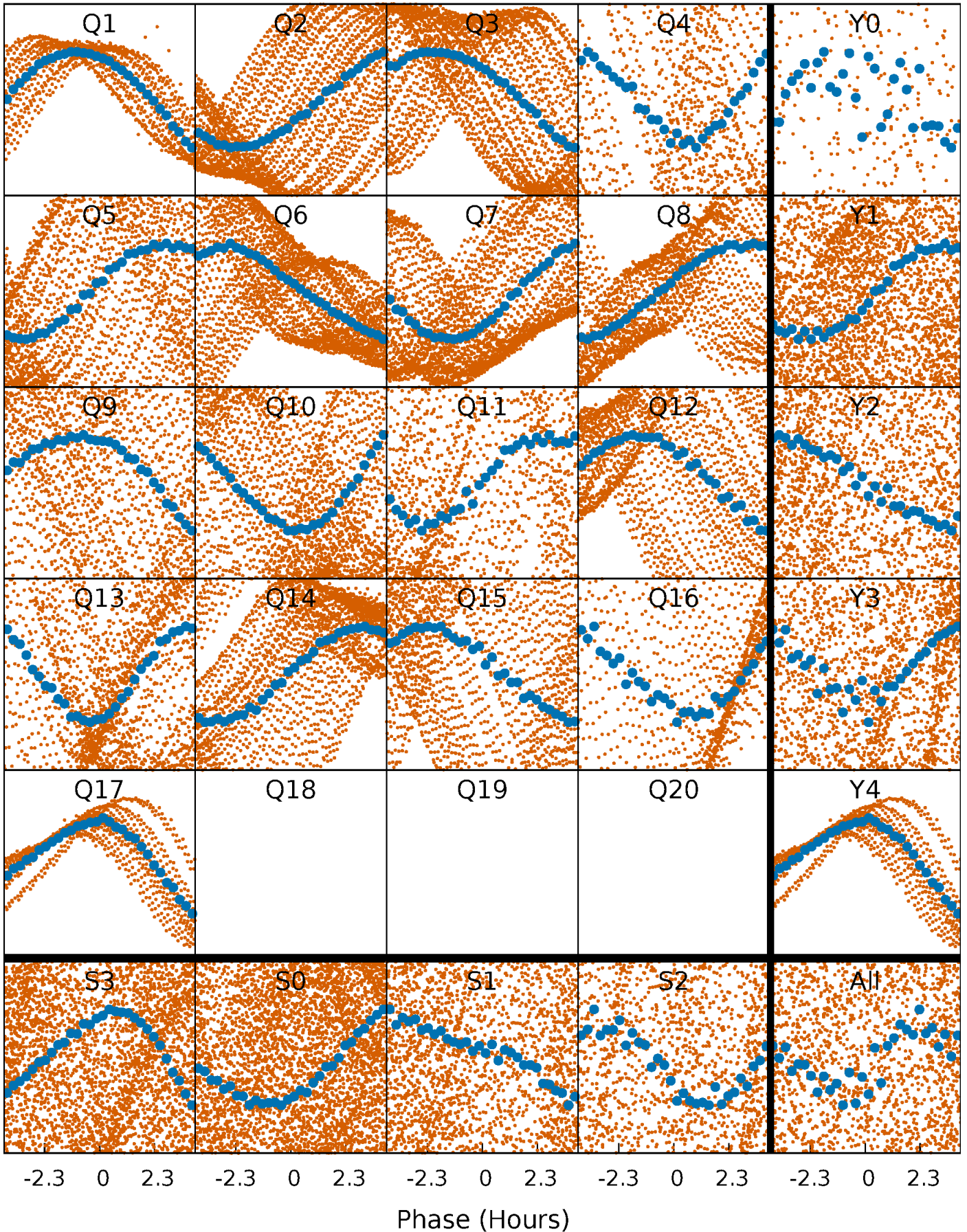


Non-Whitened Vs. Whitened Light Curve



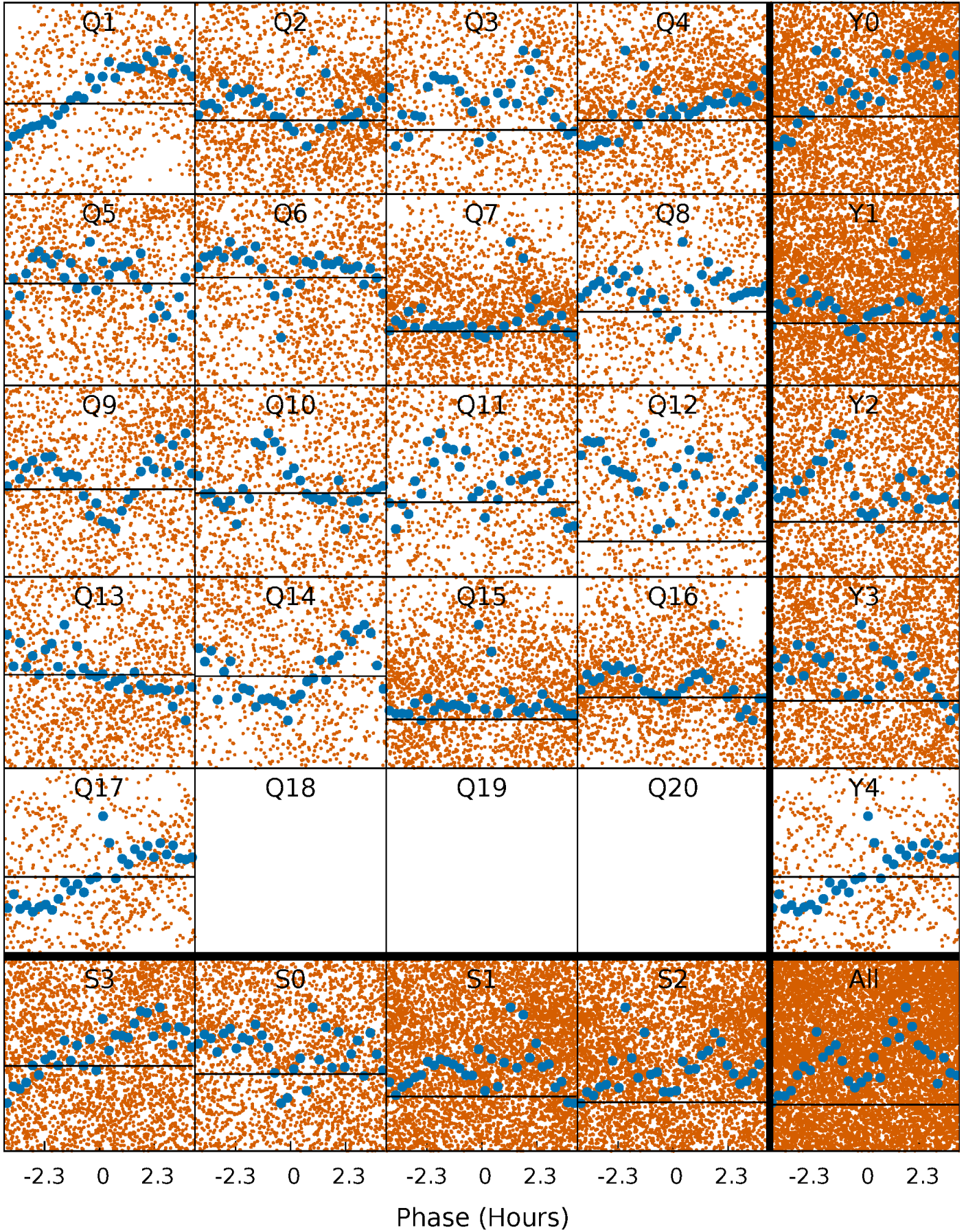
PDC Quarter-Phased Transit Curves

TCE 006719893-01 P= 0.536079 Days $T_0=132.000777$ (BKJD)



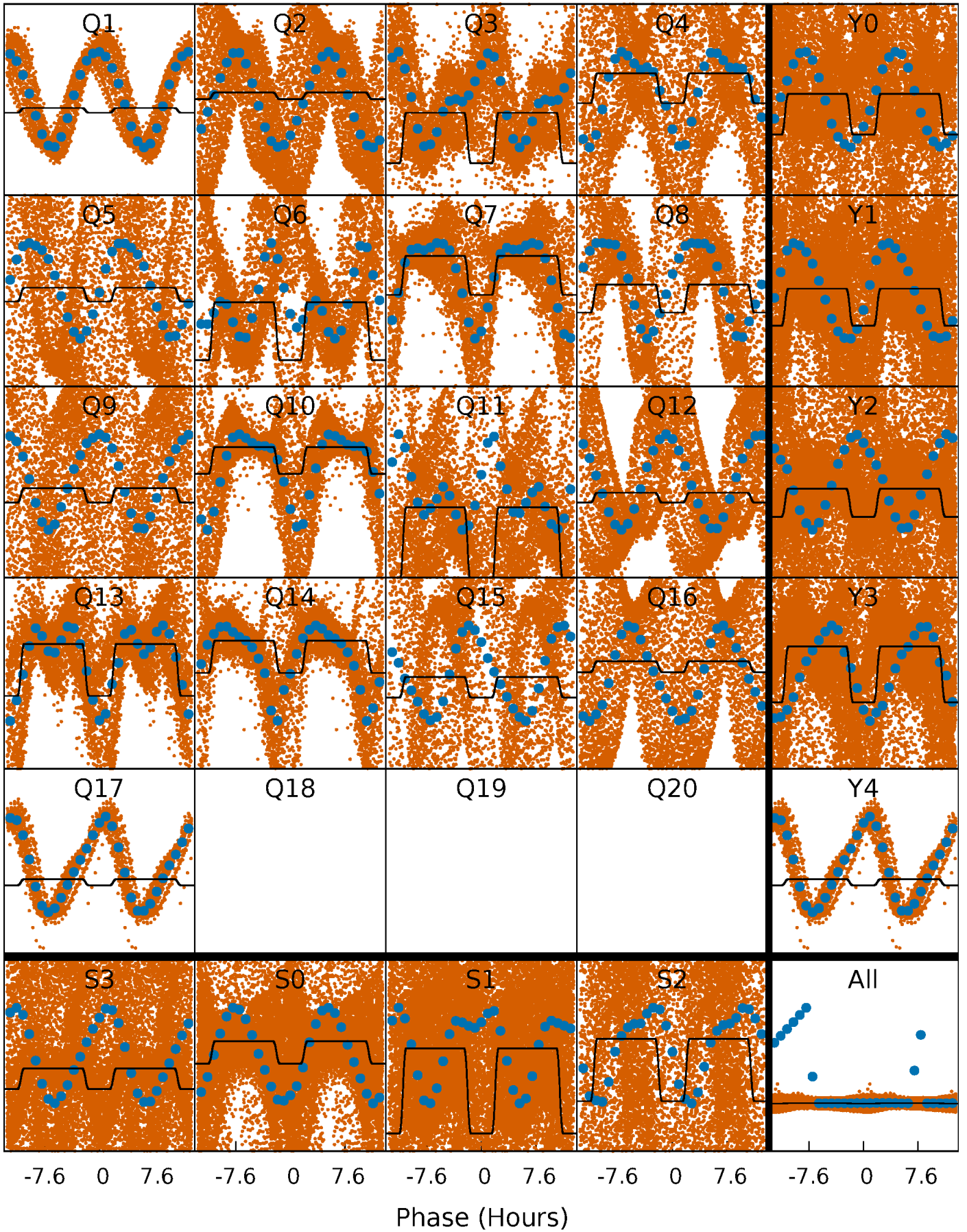
DV Quarter-Phased Transit Curves

TCE 006719893-01 P= 0.536079 Days $T_0=132.000777$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

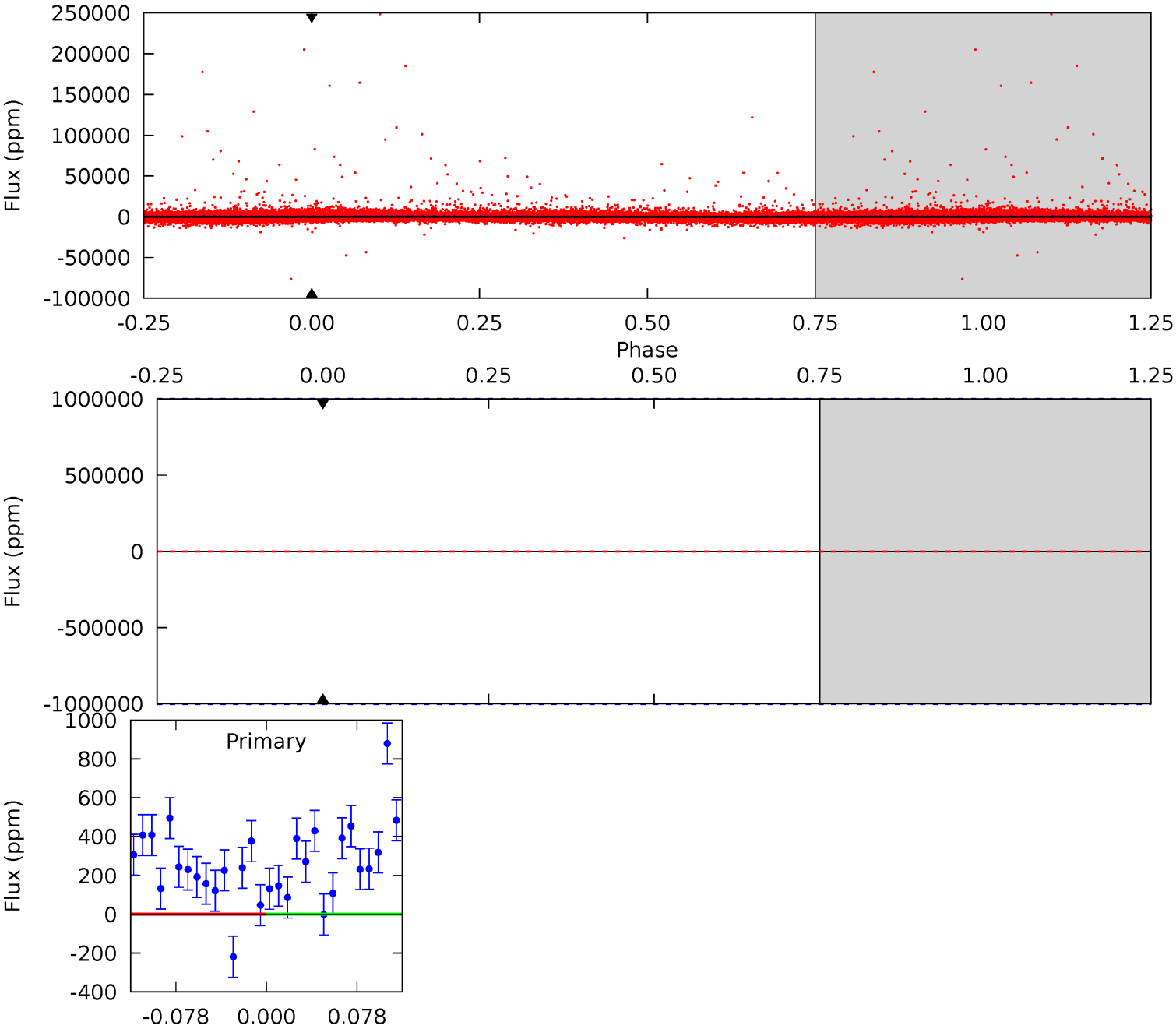
TCE 006719893-01 P= 0.536079 Days $T_0=131.978047$ (BKJD)



DV Model-Shift Uniqueness Test

006719893-01, P = 0.536079 Days, E = 131.464698 Days

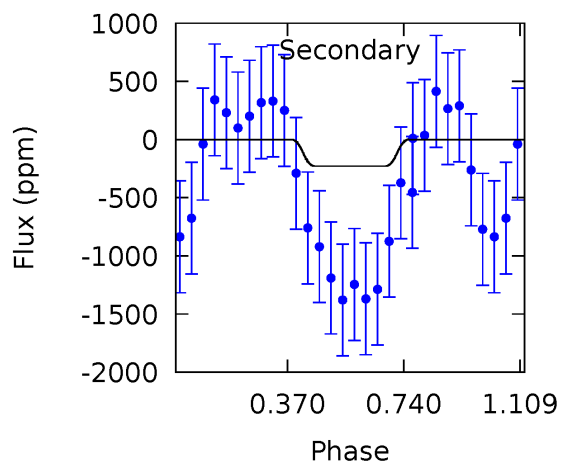
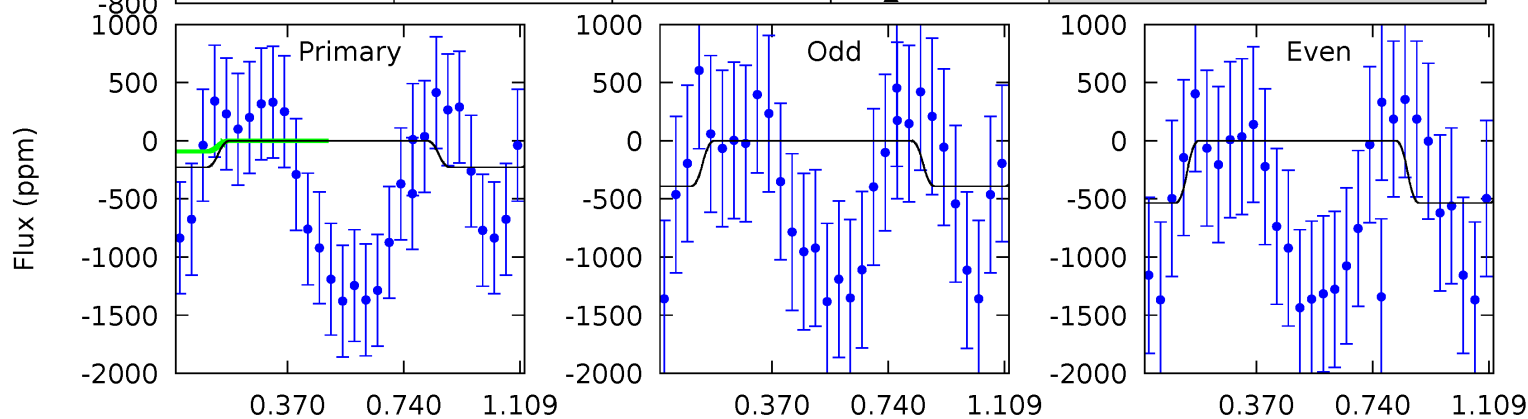
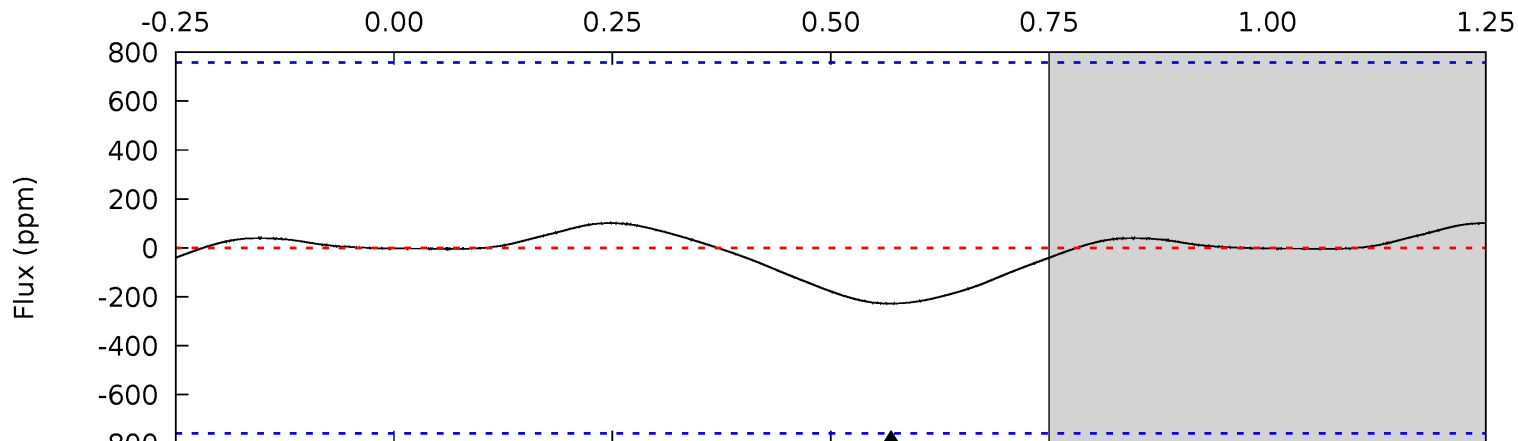
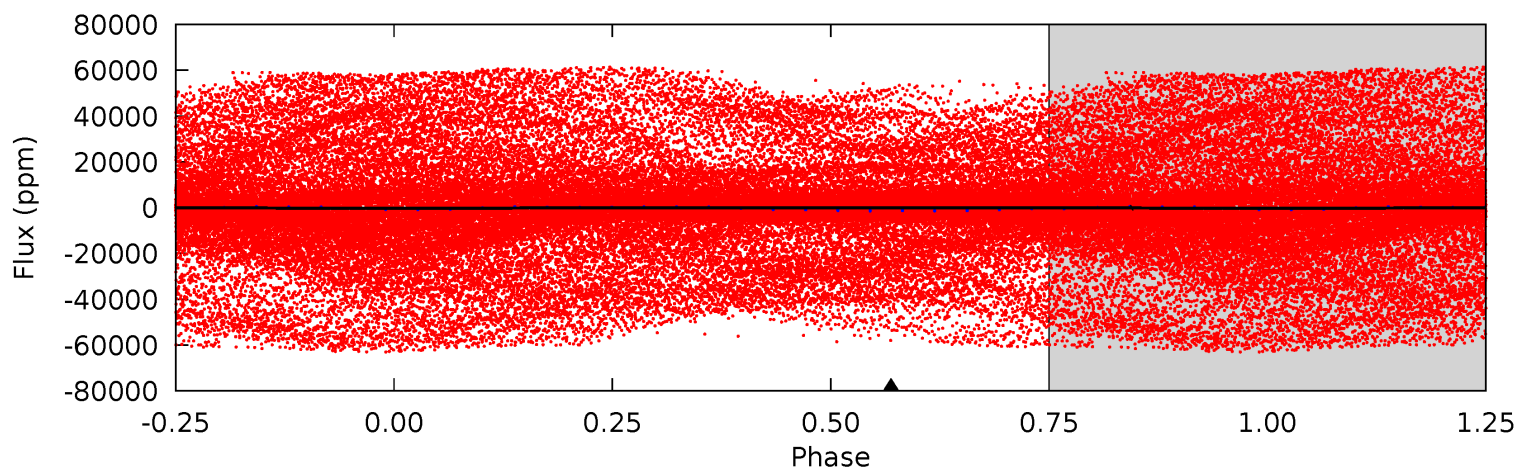
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006719893-01, P = 0.536079 Days, E = 131.441968 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.29	1.29	0	0	4.28	0.90	0.12	1.29	1.29	1.29	1.29	0.41	-0.08	0.31	0.60



Stellar Parameters For KIC 006719893

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5080^{+137}_{-137}	$3.511^{+1.065}_{-0.355}$	$-0.520^{+0.300}_{-0.250}$	$2.650^{+1.578}_{-1.929}$	$0.831^{+0.275}_{-0.183}$	$0.063^{+2.835}_{-0.047}$
	+3%/-3%	+30%/-10%	+58%/-48%	+60%/-73%	+33%/-22%	+4509%/-74%
Source	PHO1	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 006719893-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$21.58^{+26.96}_{-15.87}$	4523^{+799}_{-1025}	-4506^{+16979}_{-9668}	$-0.292^{+30.408}_{-35.866}$
Alt.	-228 ± 177	$24.80^{+27.00}_{-16.07}$	4539^{+760}_{-1016}	-3822^{+1209}_{-571}	$0.024^{+0.202}_{-0.022}$

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

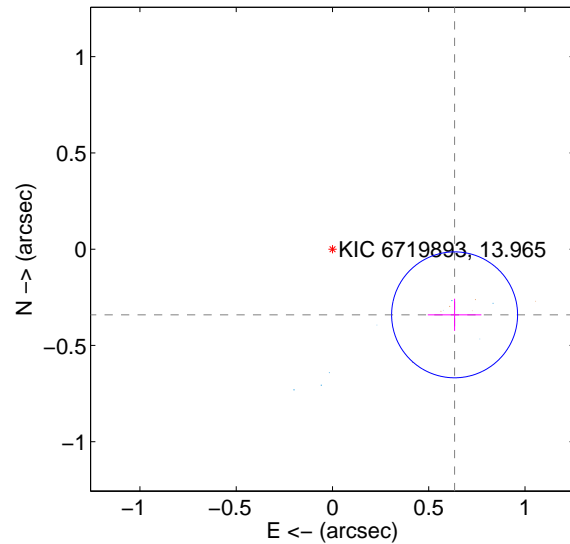
Supplemental centroid analysis for 006719893-01. Kepler magnitude: 13.96. Transit SNR -1.00

There are 10 quarters with good PRF difference image offsets

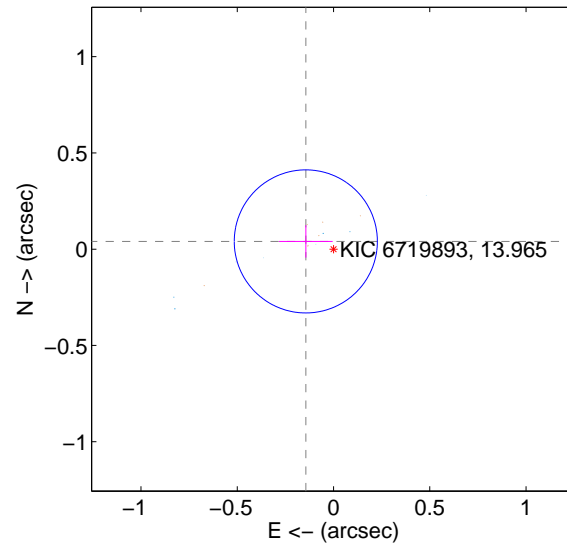
The direct PRF centroid is offset from the target star catalog position by about 0.97 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.720 ± 0.109	6.61	-0.634 ± 0.139	-0.341 ± 0.084
PRF-fit source offset from KIC position	0.149 ± 0.124	1.21	0.144 ± 0.140	0.040 ± 0.084
photometric centroid source offset	0.95 ± 0.01	85.53	0.82 ± 0.01	0.50 ± 0.01

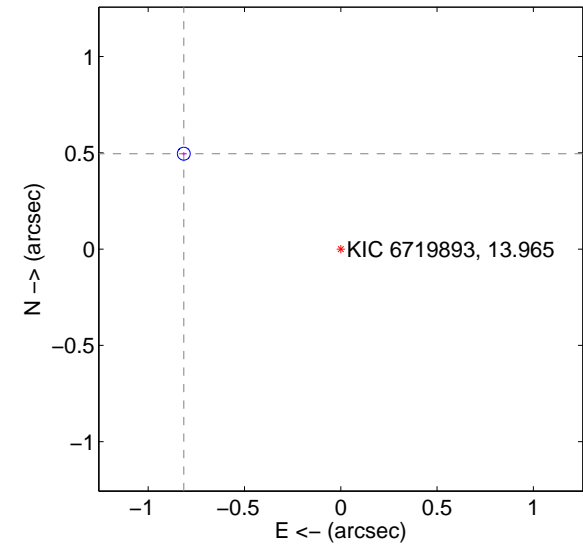
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

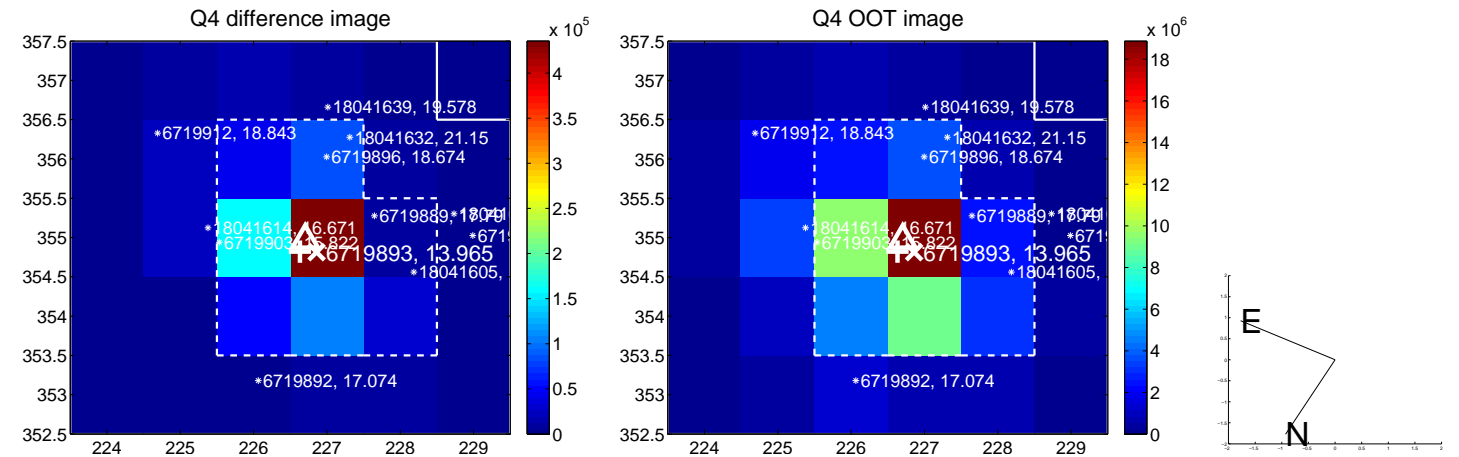
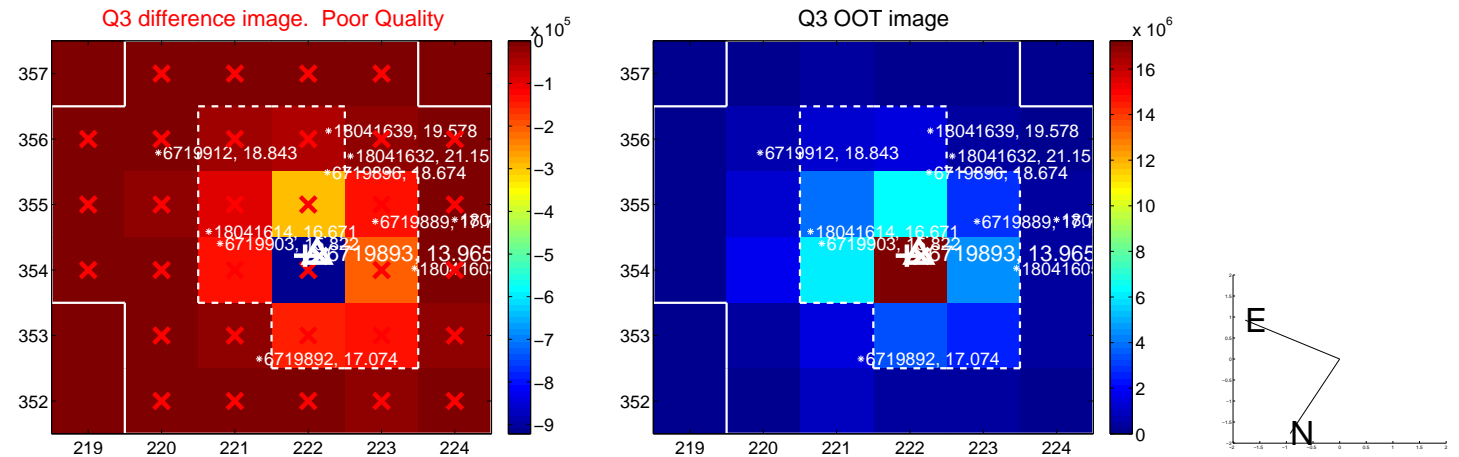
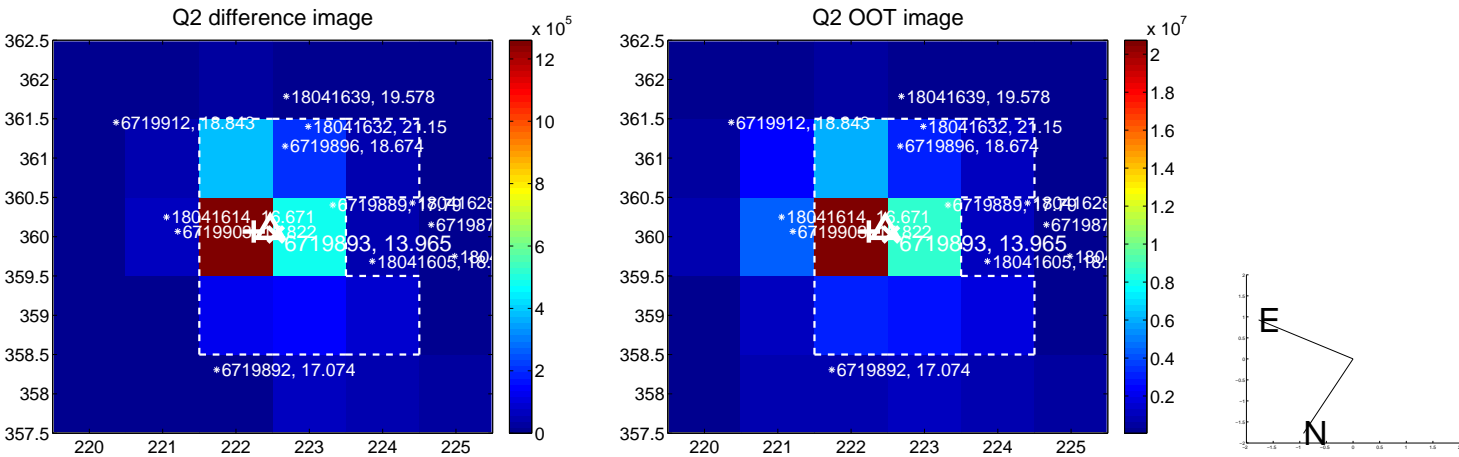
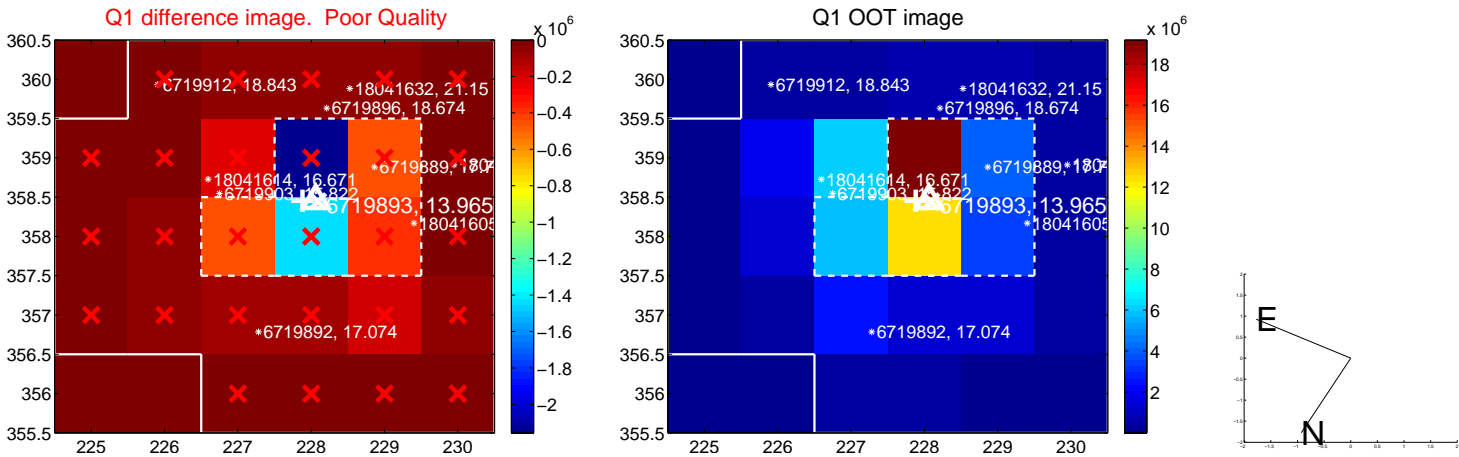


offset from photometric centroids

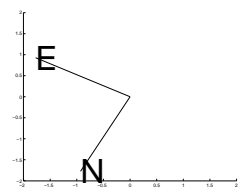
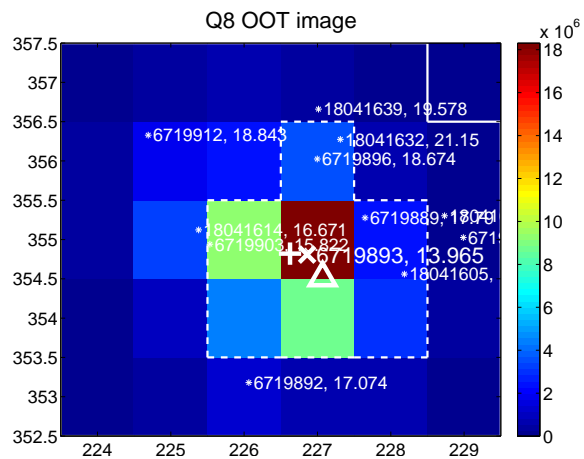
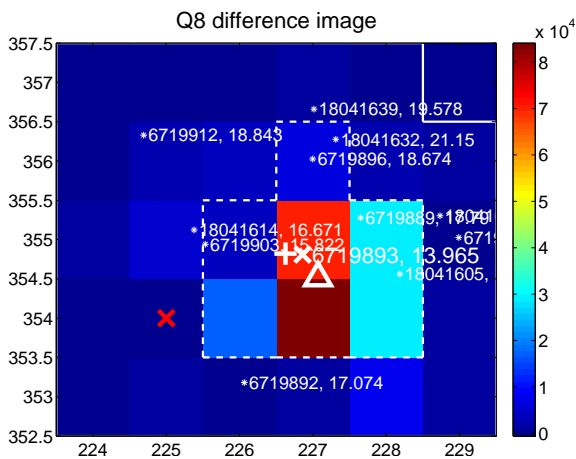
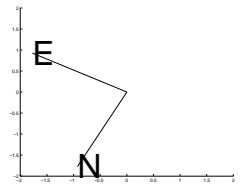
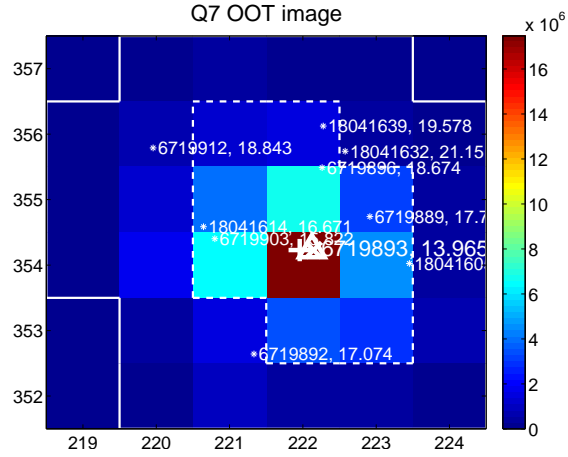
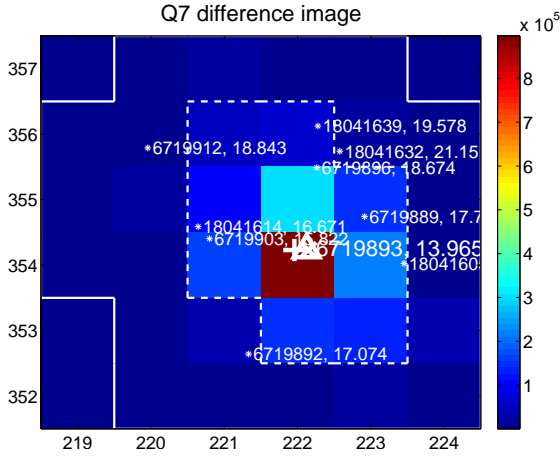
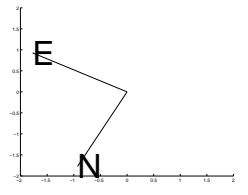
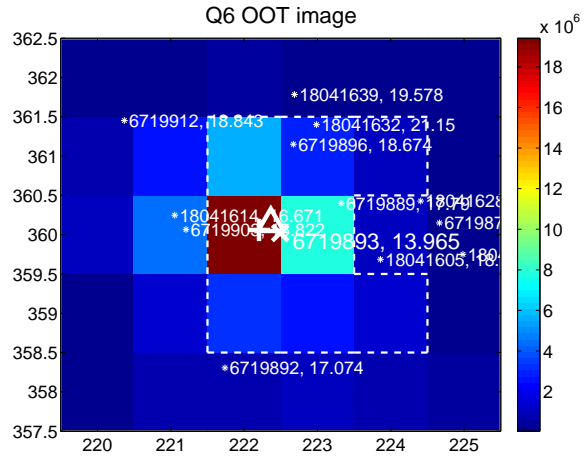
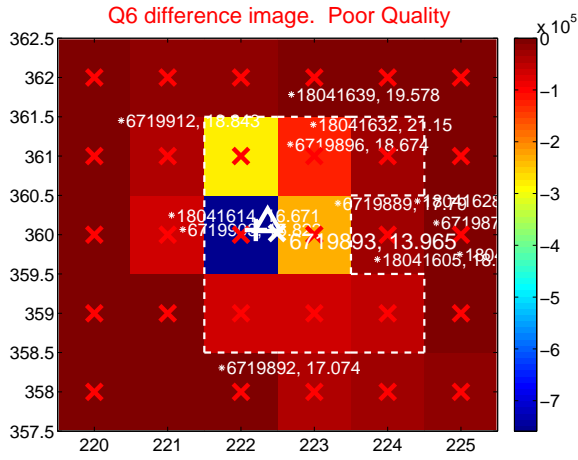
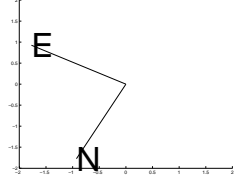
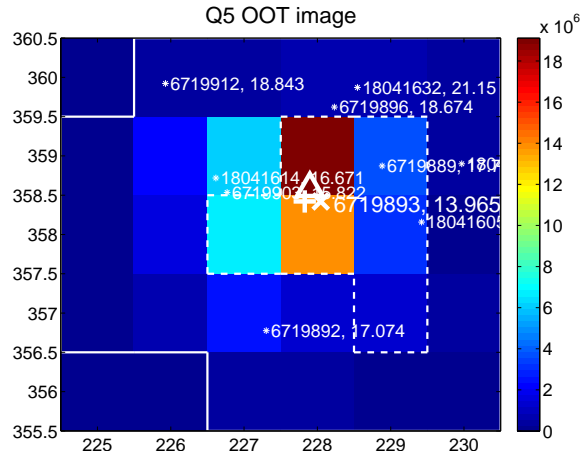
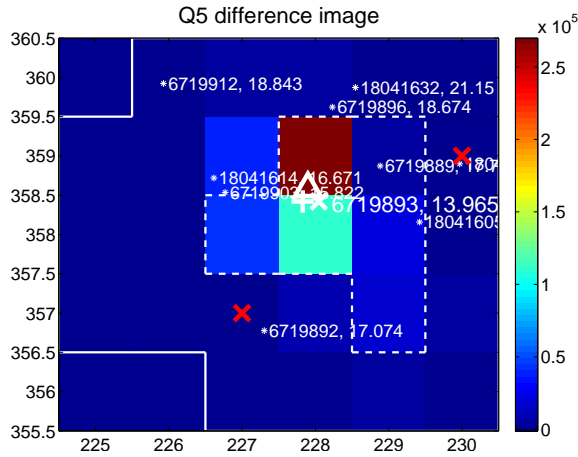


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

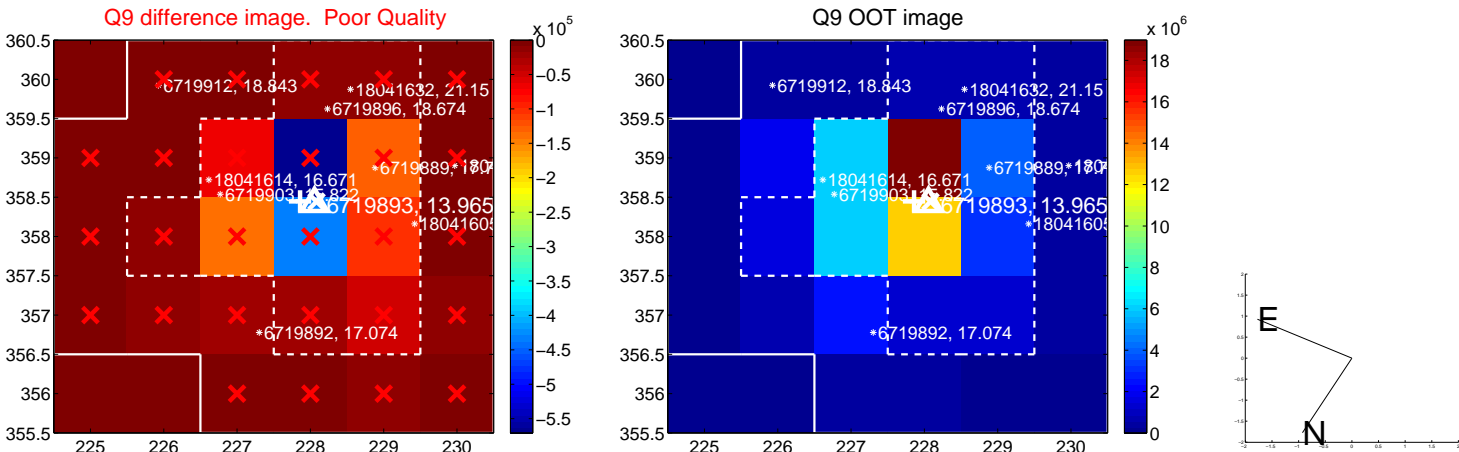
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



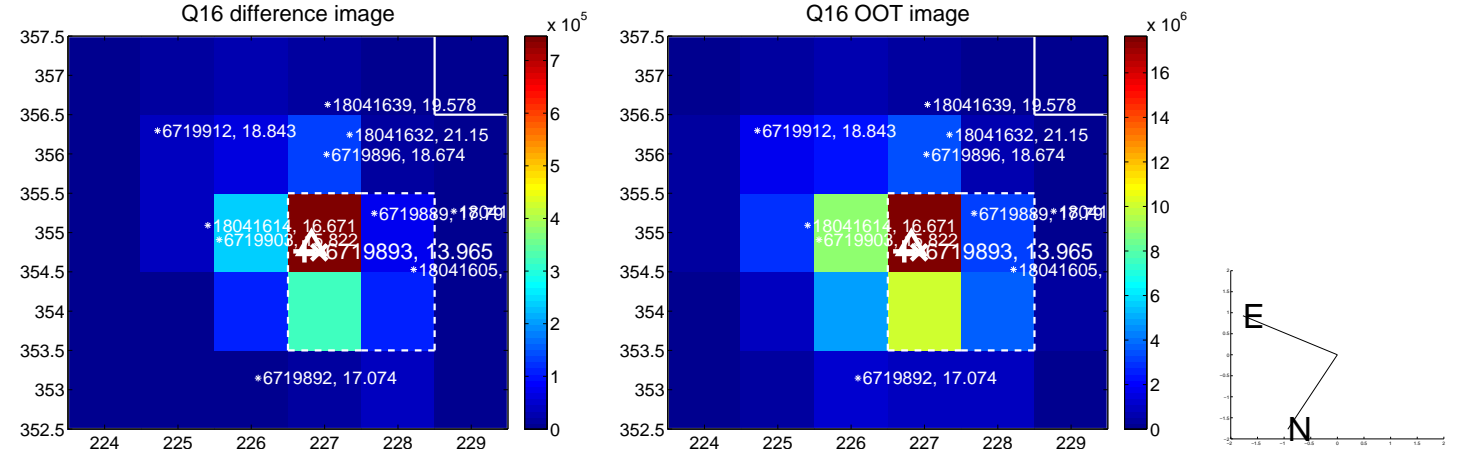
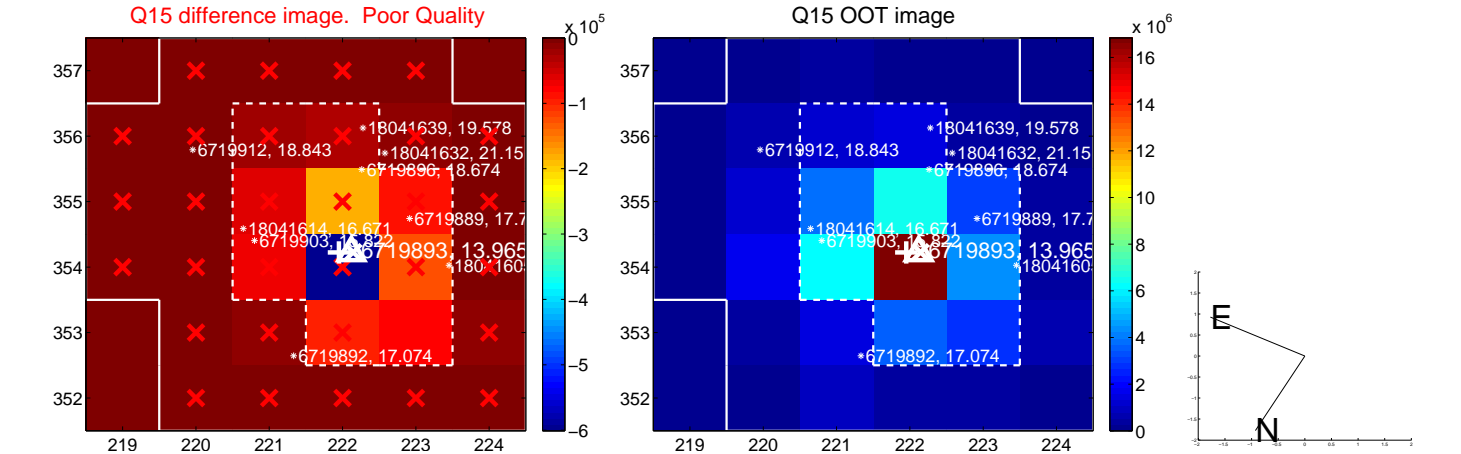
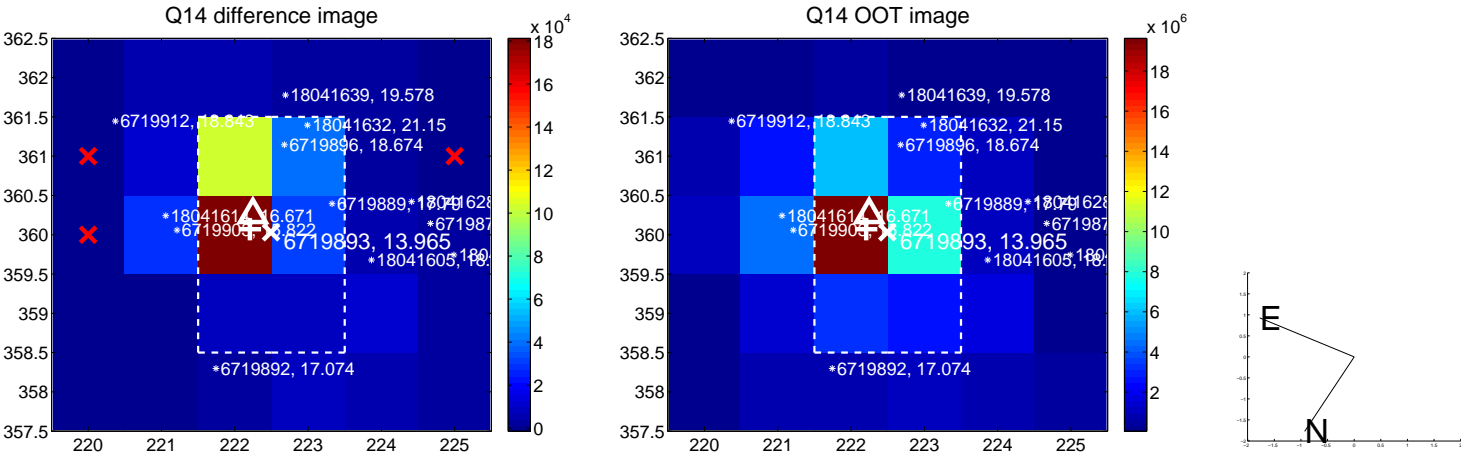
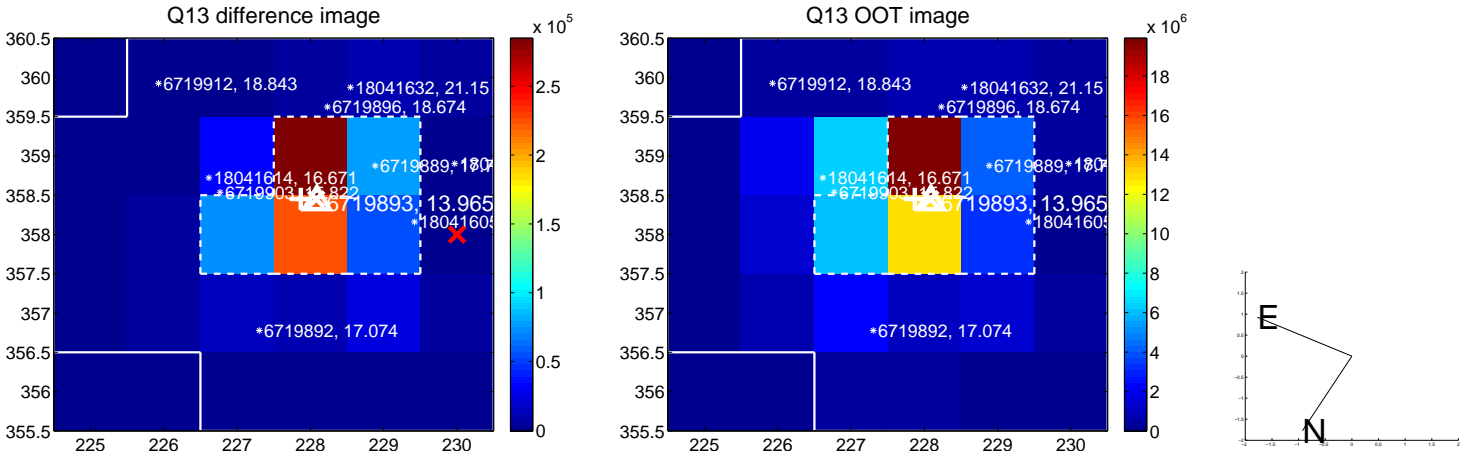
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



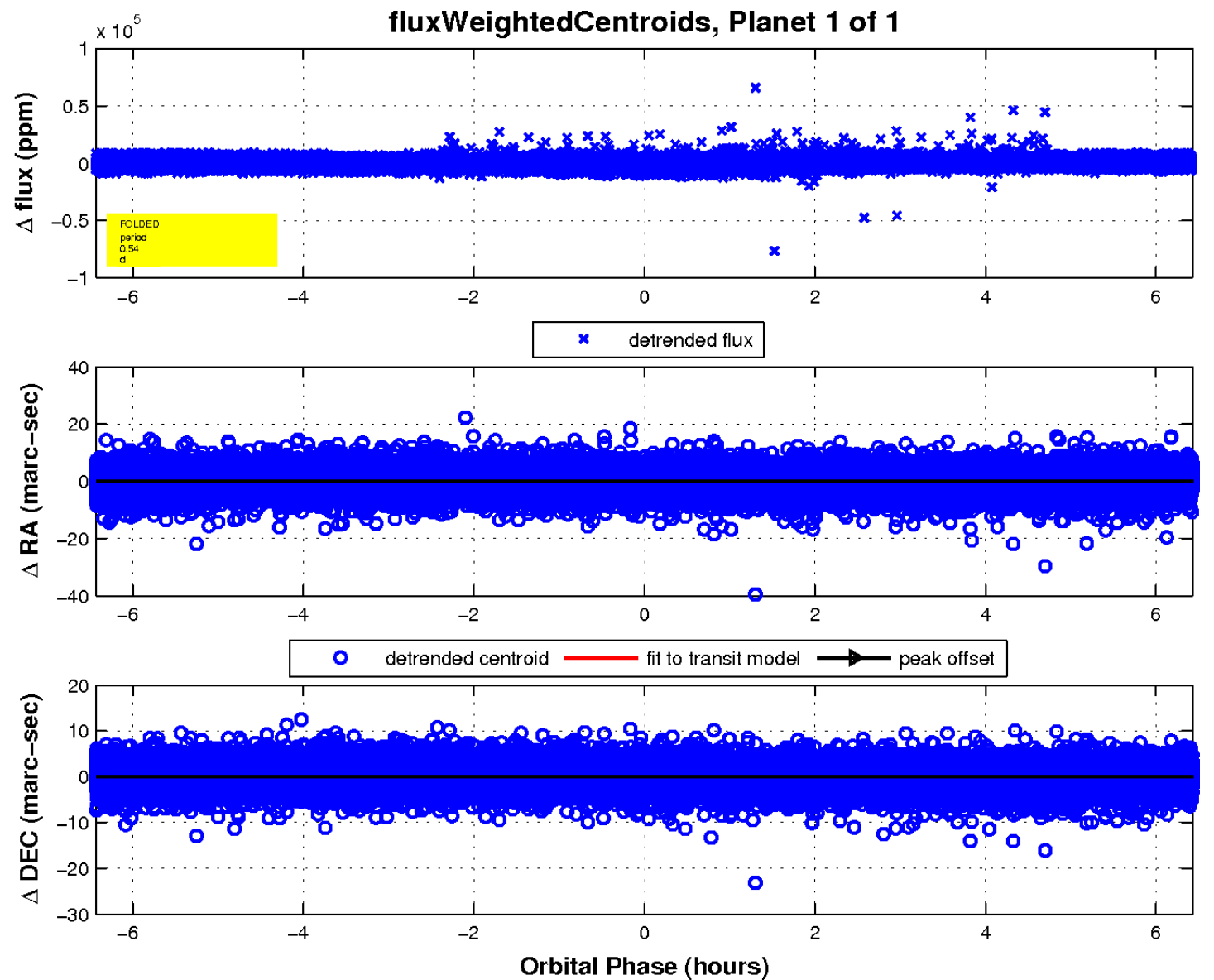
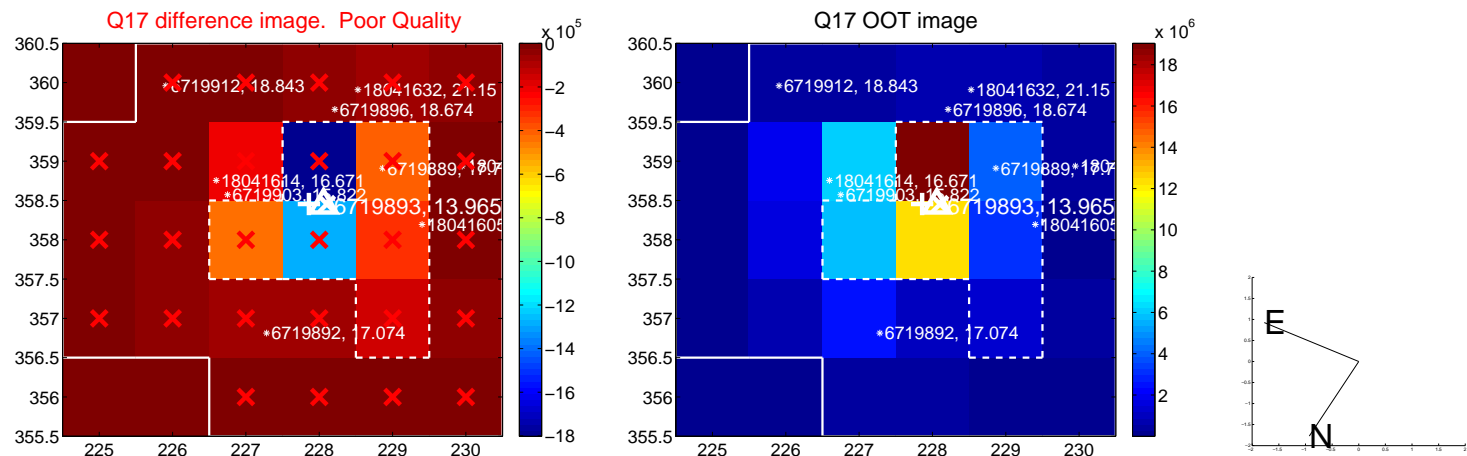
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

