

KIC 005808673

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})
005808673-01	OBS	No	1.014205	132.225777	407.3	3.000	9.5	-1.0	1.04	5988	2.10	3228.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005808673-01	OBS	FP	0.00	1	0	1	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS—HALO_GHOST

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

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

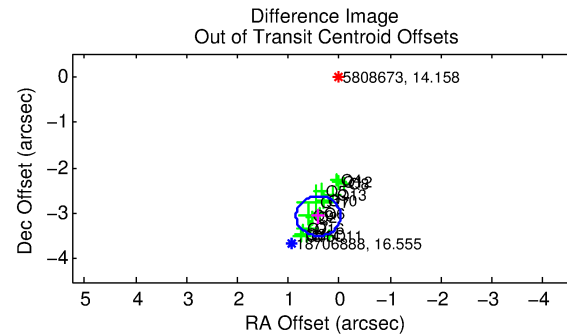
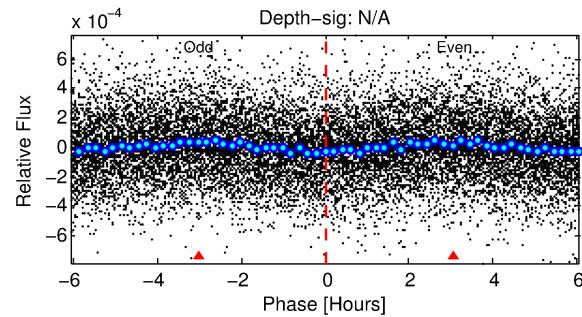
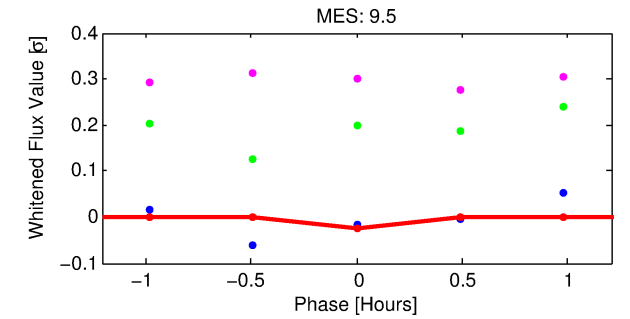
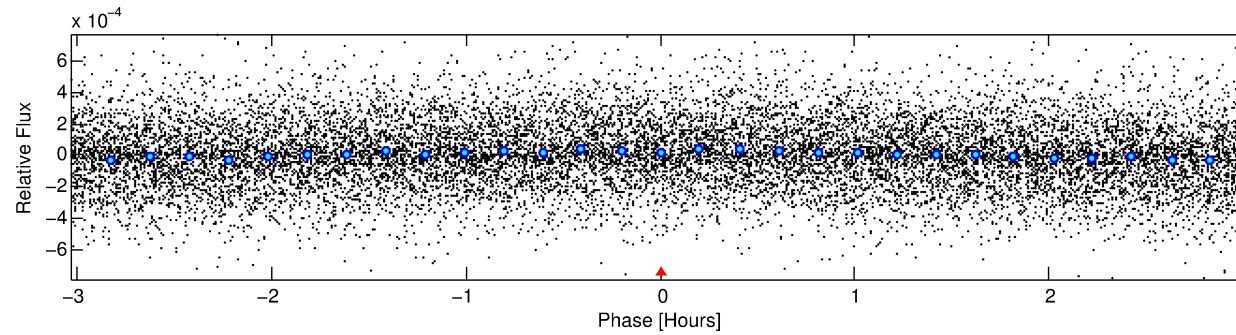
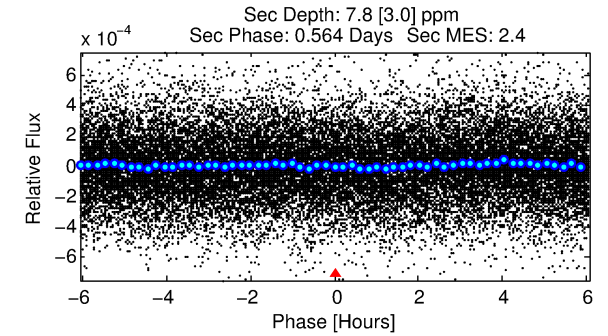
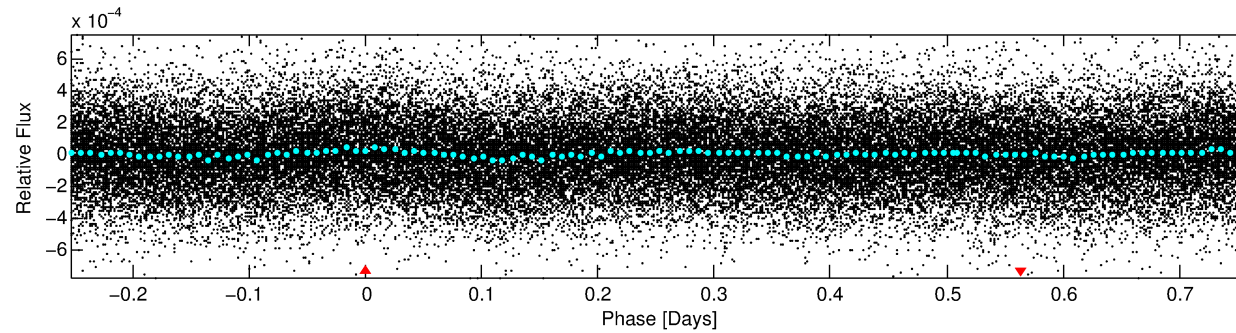
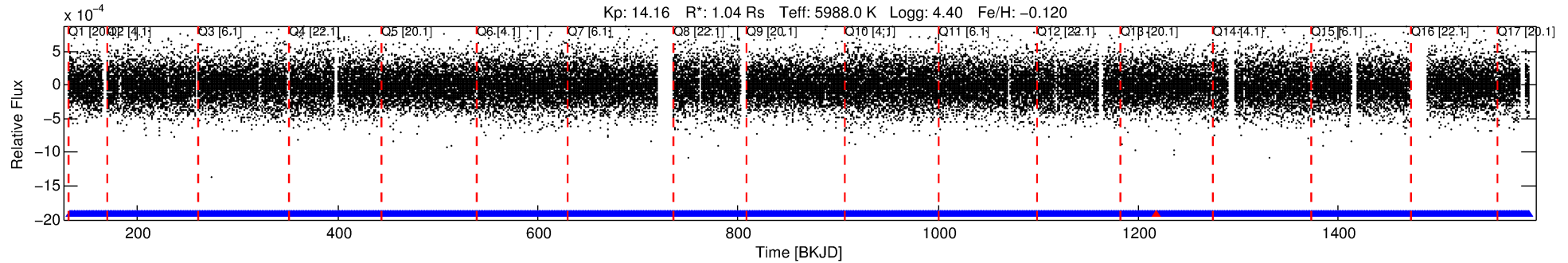
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005808673-01

No Significant Match Found

DV One-Page Summary

KIC: 5808673 Candidate: 1 of 1 Period: 1.014 d



TPS TCE Results:

Period = 1.01420 d
Epoch = 132.2258 BKJD

DV fit results are unavailable

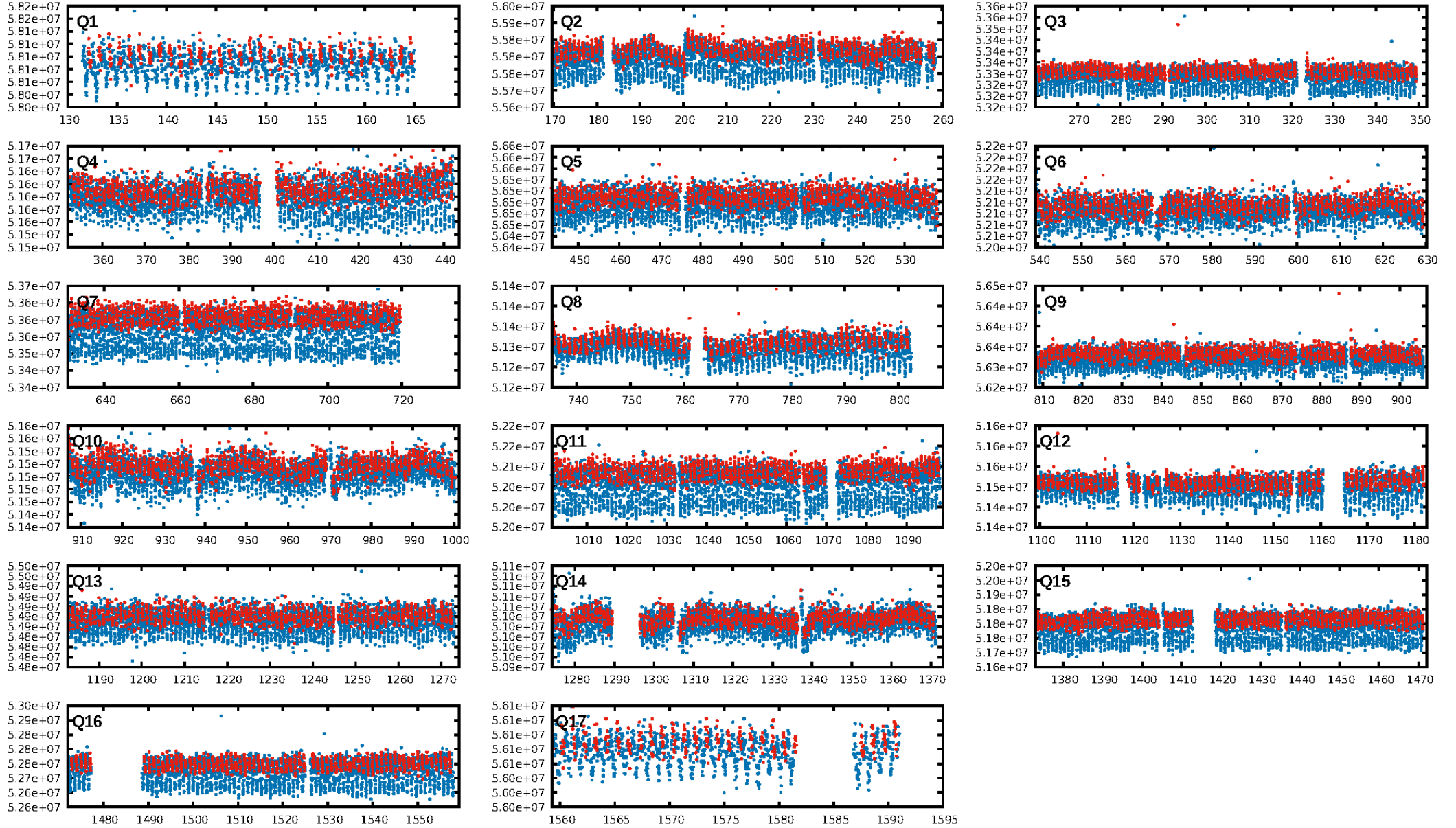
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.59e-18
RollingBand-fgt: 1.00 [1263/1264]
GhostDiagnostic-chr: -0.1989
Centroid-sig: 0.0%
Centroid-so: 11.076 arcsec [2.40σ]
OotOffset-rm: 3.082 arcsec [21.15σ]
KicOffset-rm: 3.635 arcsec [42.90σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 1.00 [17/17]

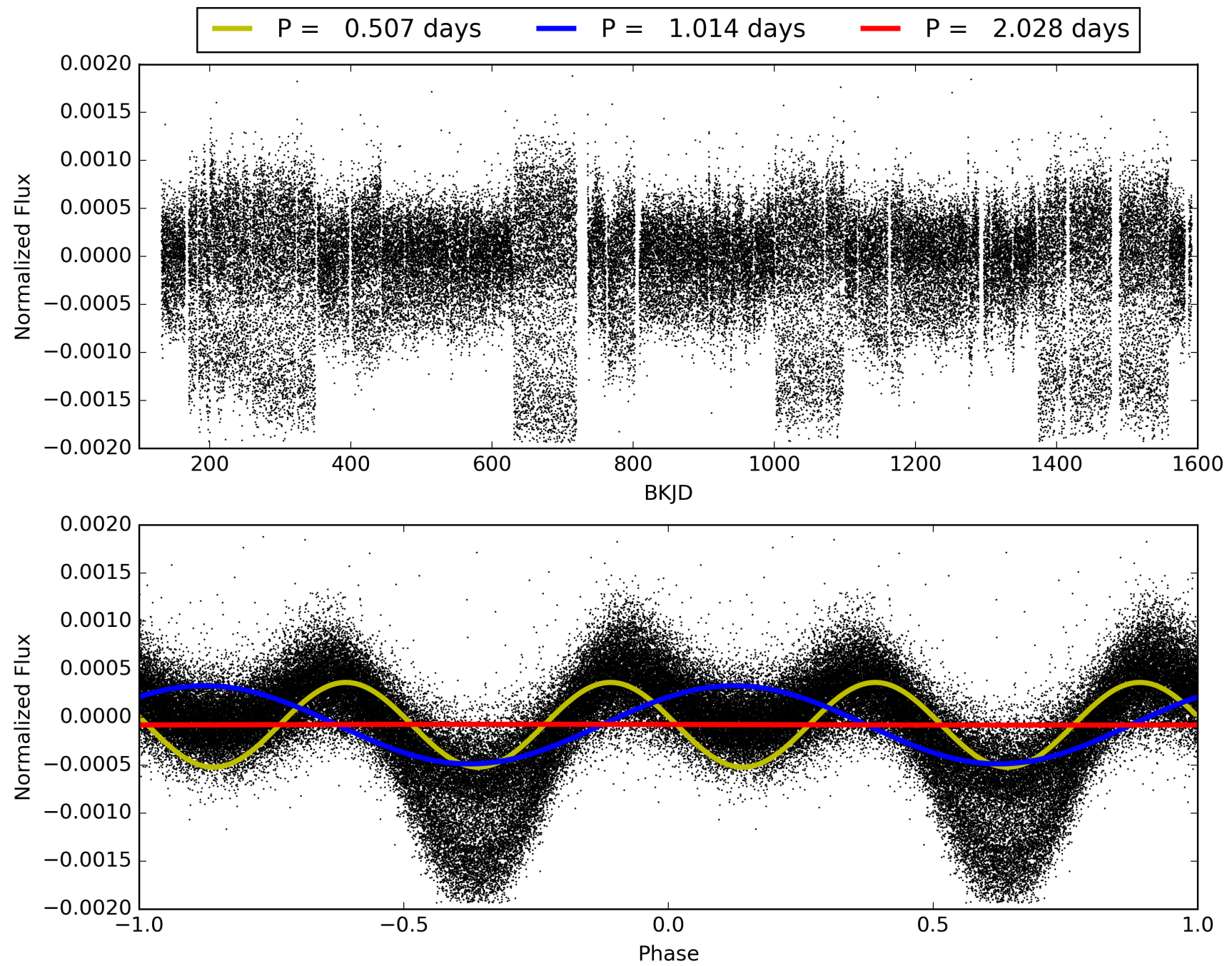
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 12:23:44 Z

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

TCE 005808673-01, PDC Light Curves

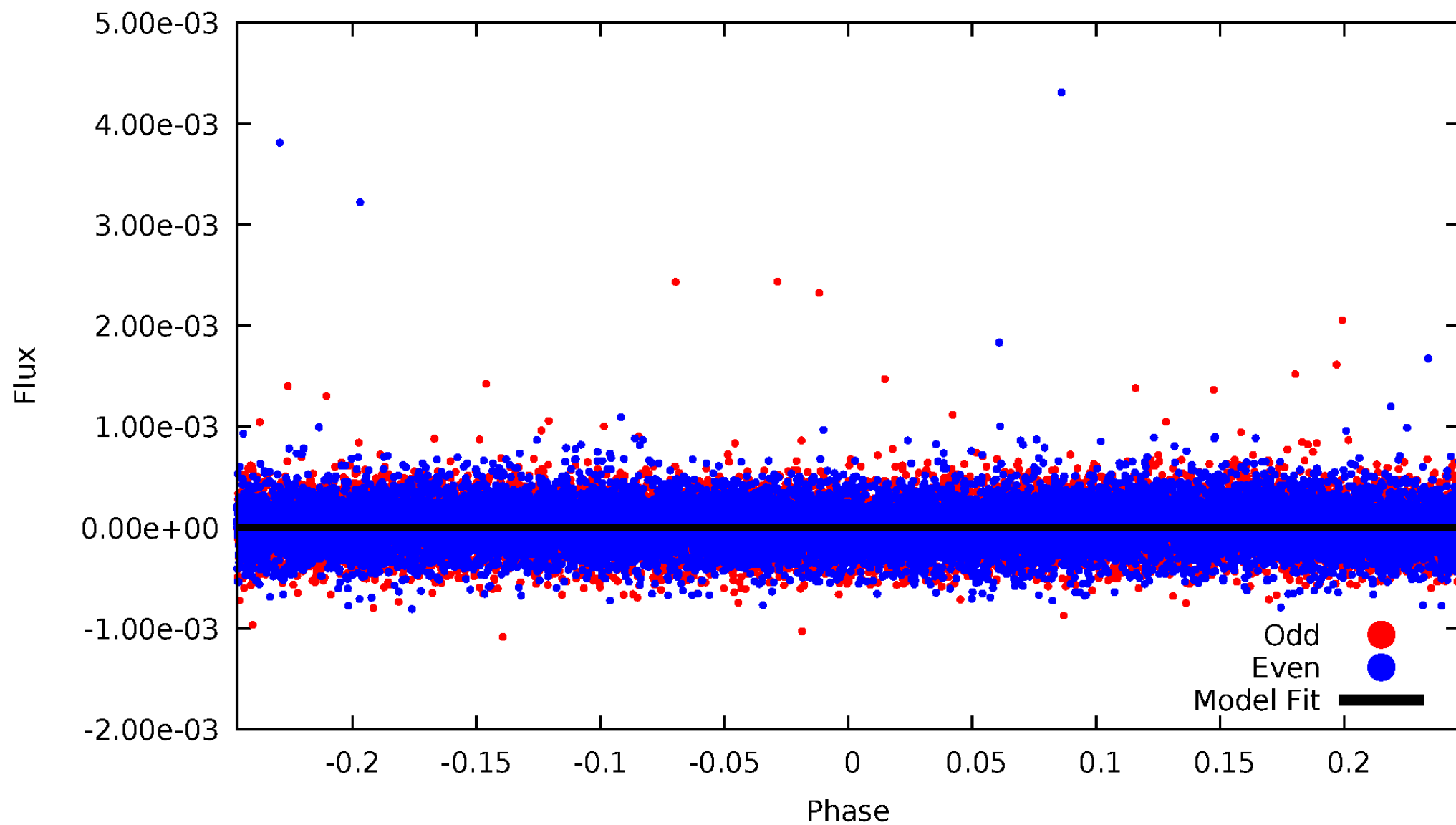


TCE 005808673-01



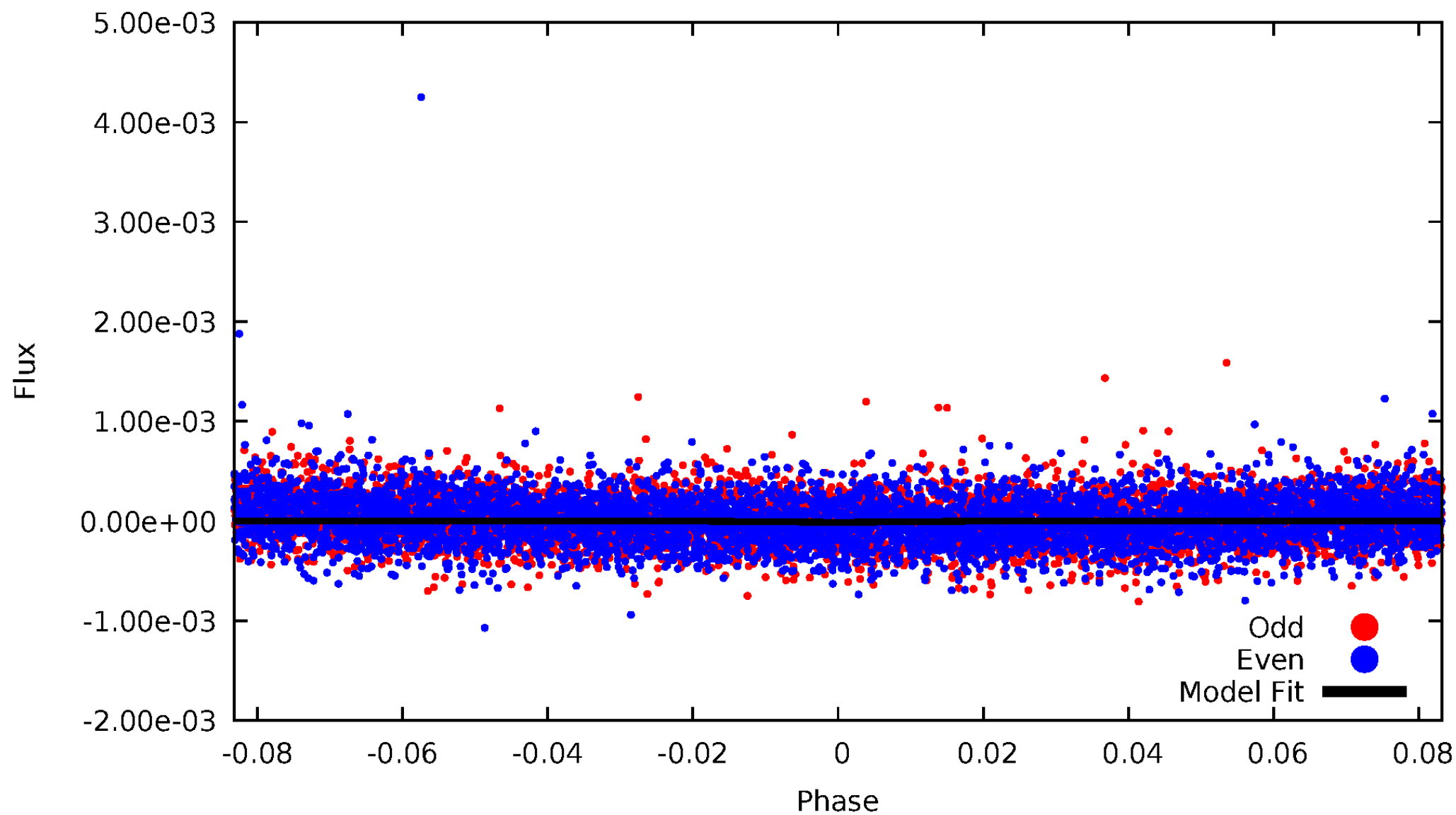
DV Odd/Even

TCE 005808673-01

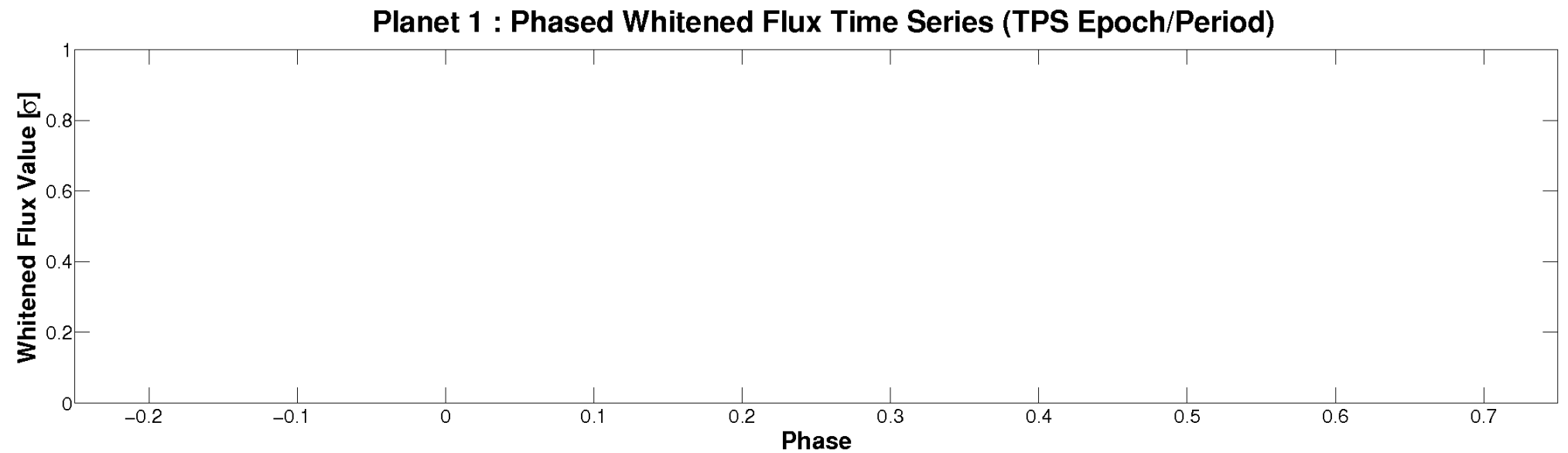
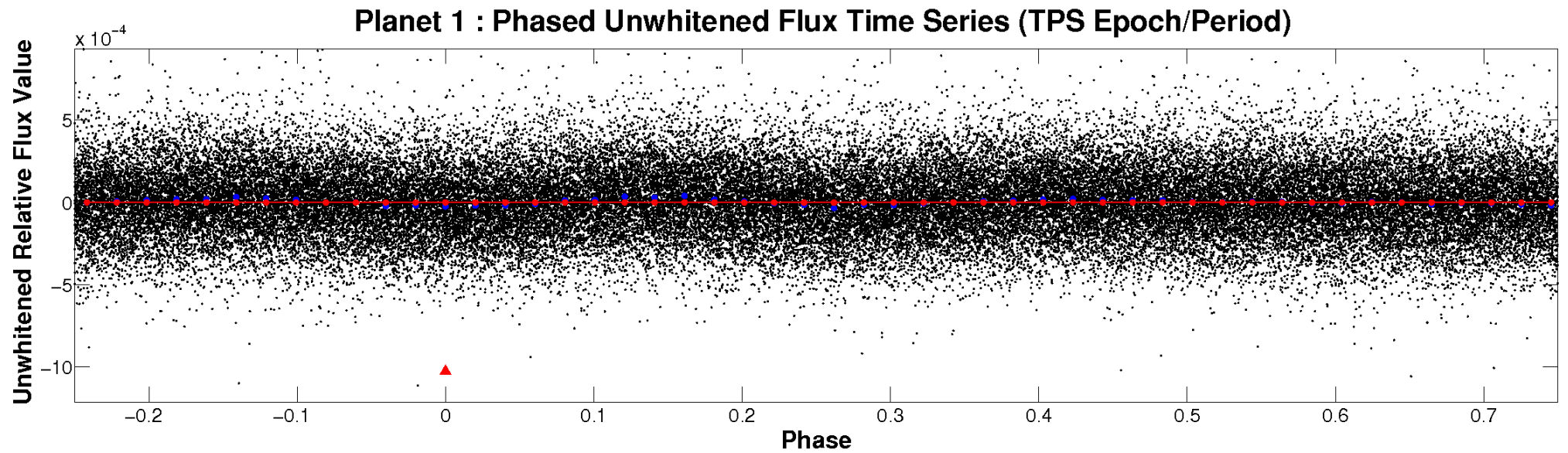


ALT Odd/Even

TCE 005808673-01

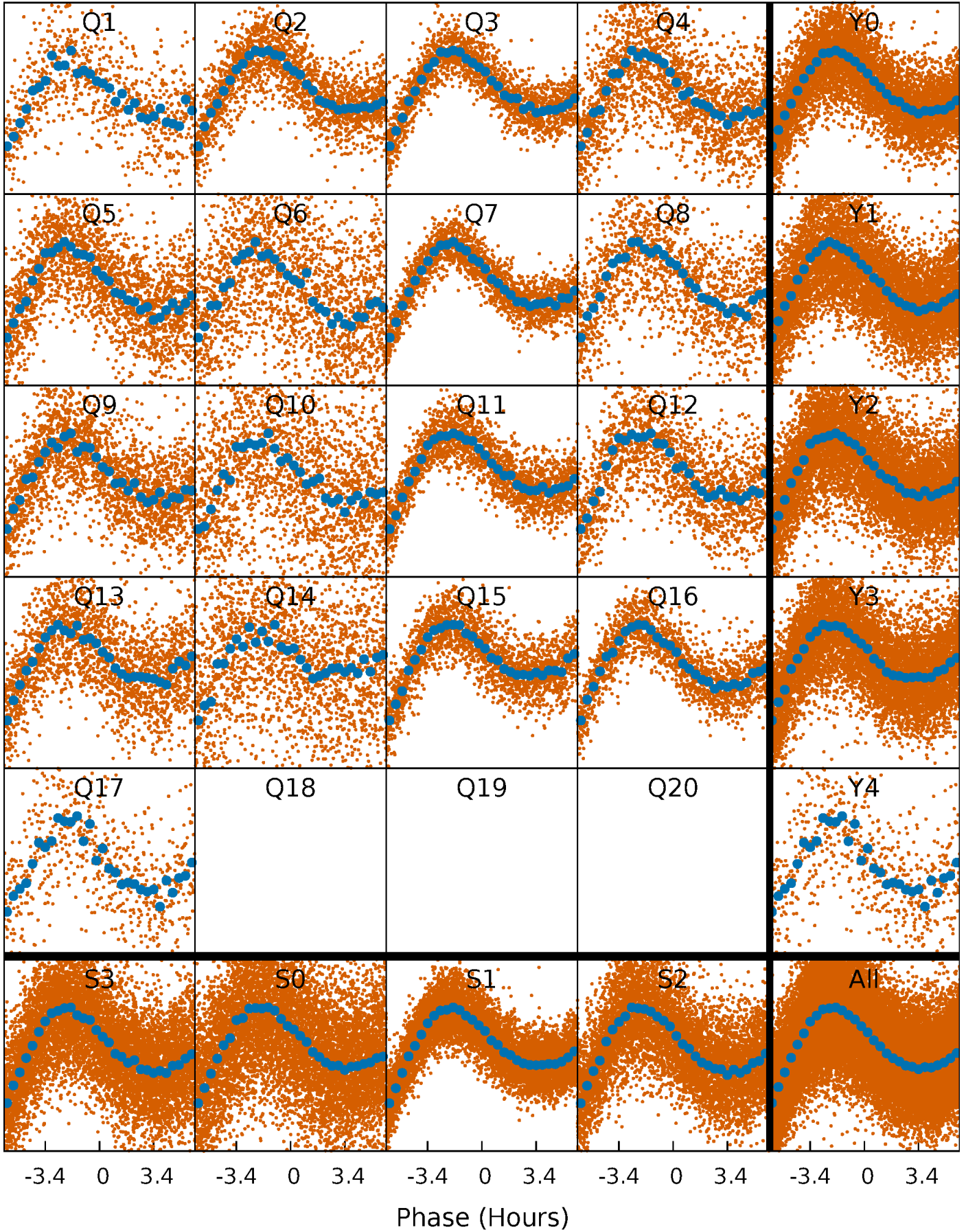


Non-Whitened Vs. Whitened Light Curve



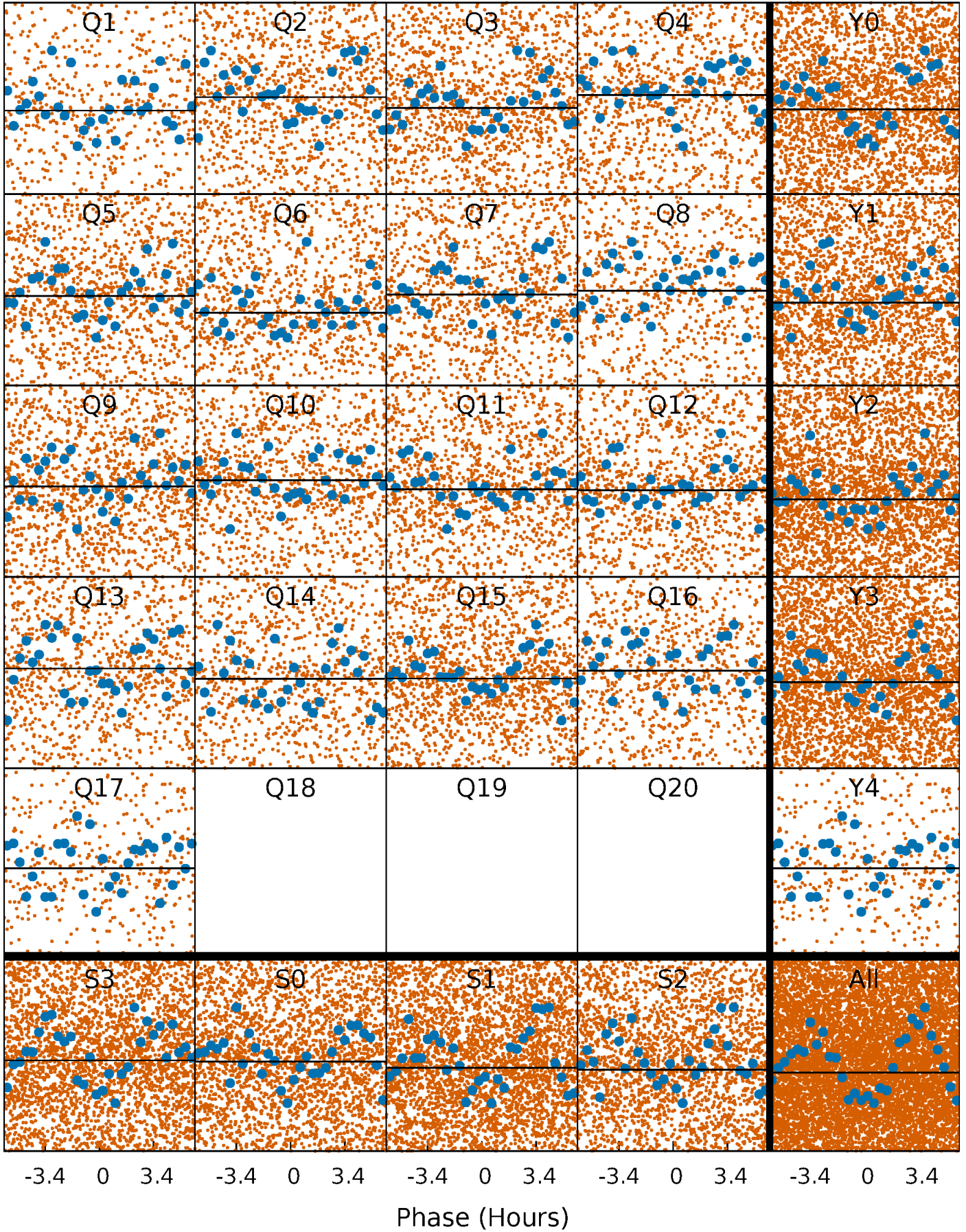
PDC Quarter-Phased Transit Curves

TCE 005808673-01 P= 1.014205 Days $T_0=132.225777$ (BKJD)



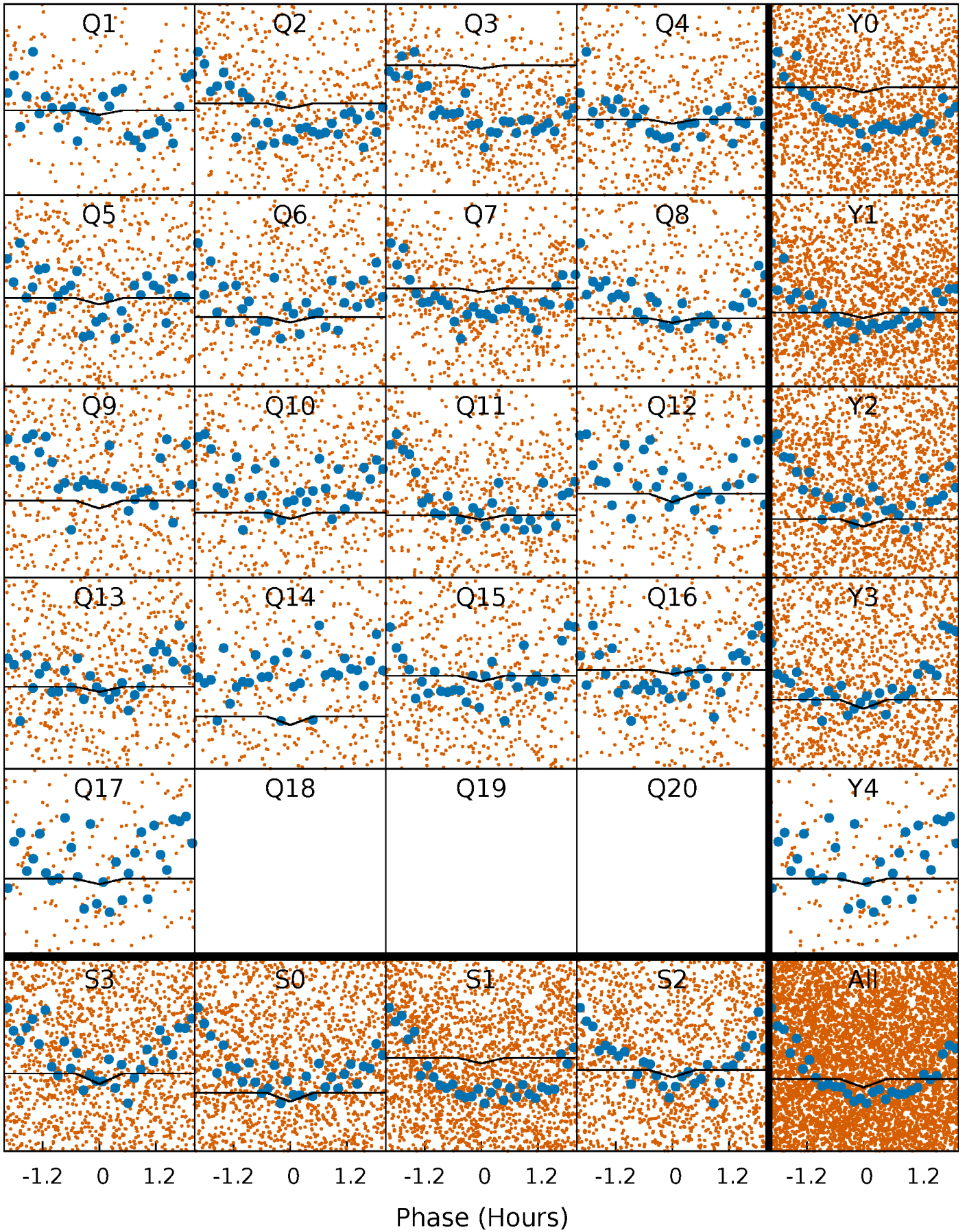
DV Quarter-Phased Transit Curves

TCE 005808673-01 P= 1.014205 Days $T_0=132.225777$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

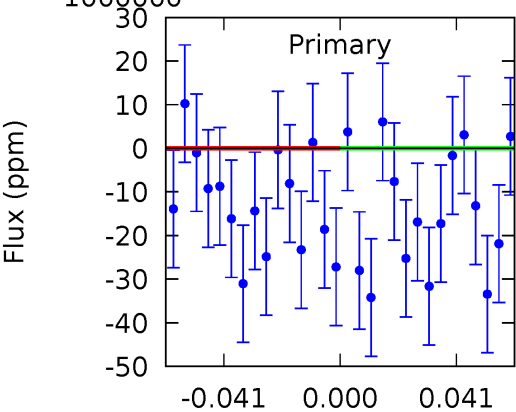
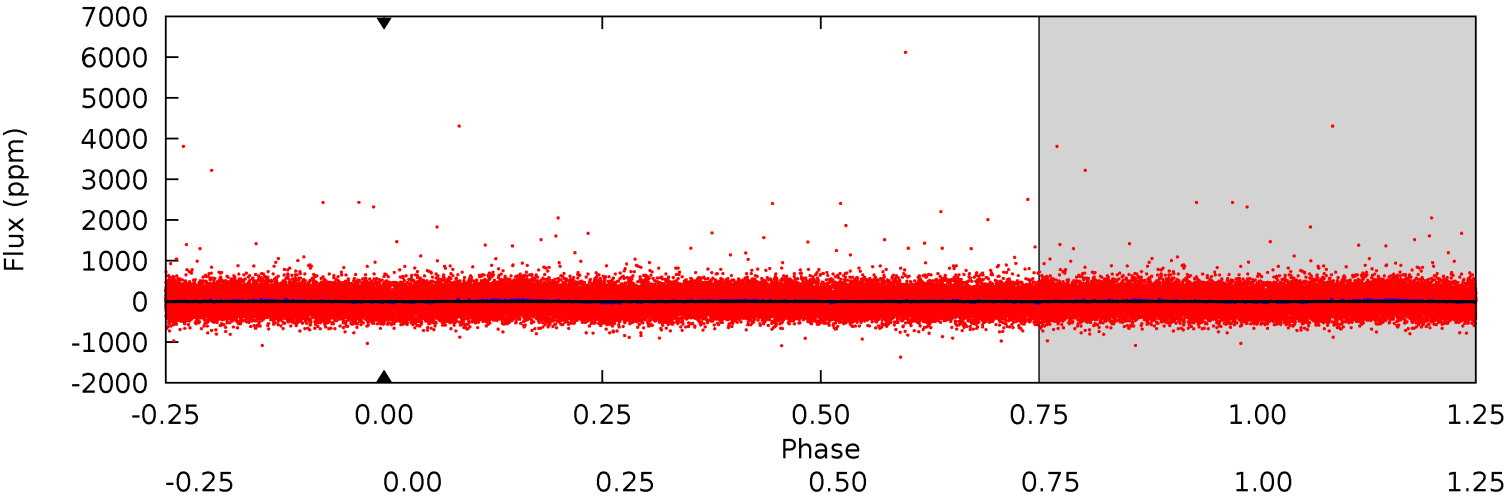
TCE 005808673-01 P= 1.014205 Days $T_0=132.371238$ (BKJD)



DV Model-Shift Uniqueness Test

005808673-01, P = 1.014205 Days, E = 131.211572 Days

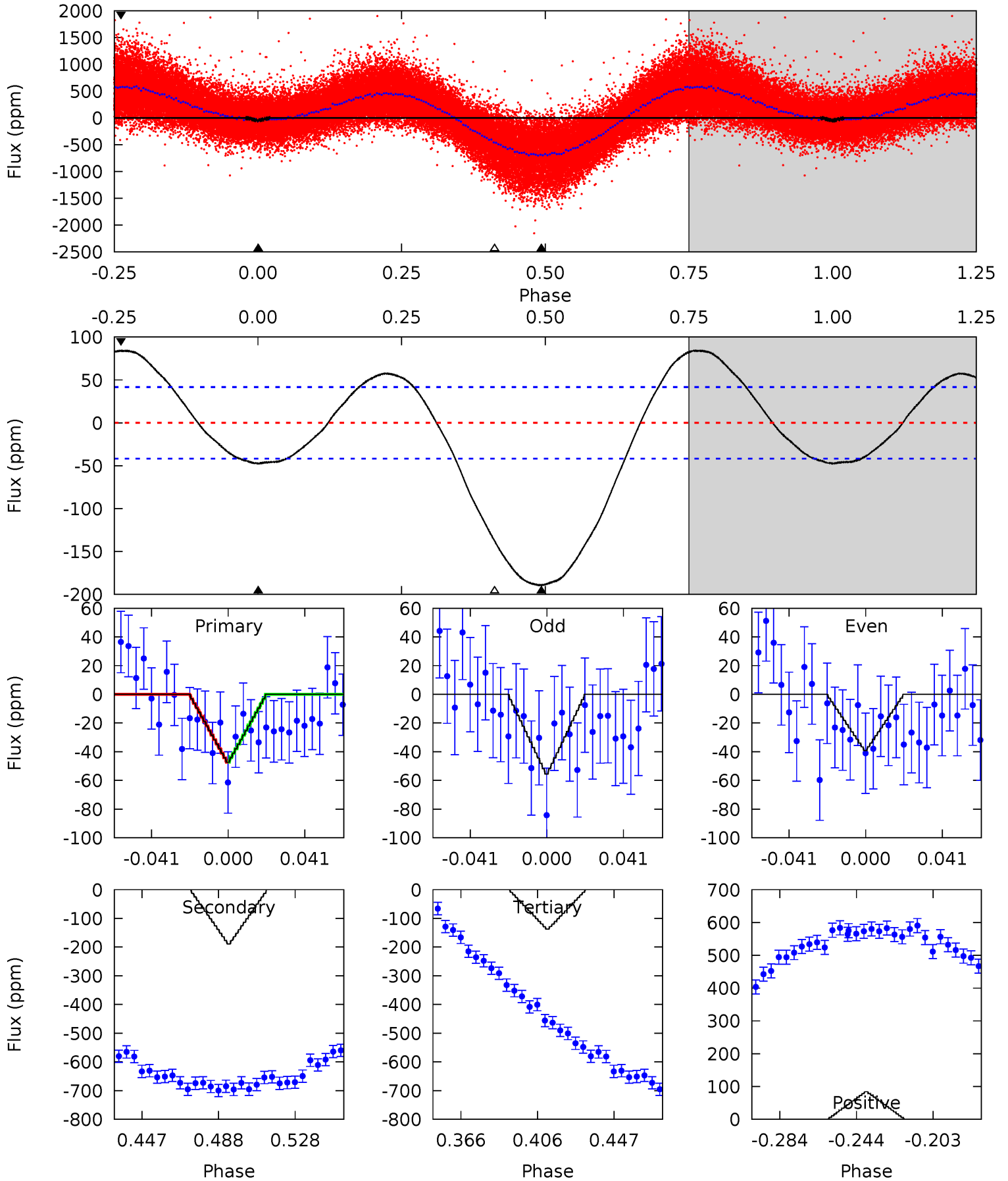
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005808673-01, P = 1.014205 Days, E = 131.357033 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.40	21.6	15.7	9.58	4.75	2.05	8.28	-10.3	-4.18	5.87	12.0	0.93	0.93	0.31	0.00



Stellar Parameters For KIC 005808673

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5988^{+167}_{-208}	$4.398^{+0.105}_{-0.195}$	$-0.120^{+0.300}_{-0.300}$	$1.044^{+0.303}_{-0.140}$	$0.994^{+0.145}_{-0.119}$	$1.232^{+0.584}_{-0.634}$
	+3%/-3%	+2%/-4%	+250%/-250%	+29%/-13%	+15%/-12%	+47%/-51%
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 005808673-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$8.90^{+9.78}_{-5.89}$	2713^{+200}_{-148}	2557^{+20747}_{-24114}	$0.404^{+543.422}_{-423.831}$
Alt.	-189 ± 9	$7.93^{+8.95}_{-5.37}$	2696^{+210}_{-147}	2995^{+1809}_{-5658}	$0.651^{+5.579}_{-0.509}$

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

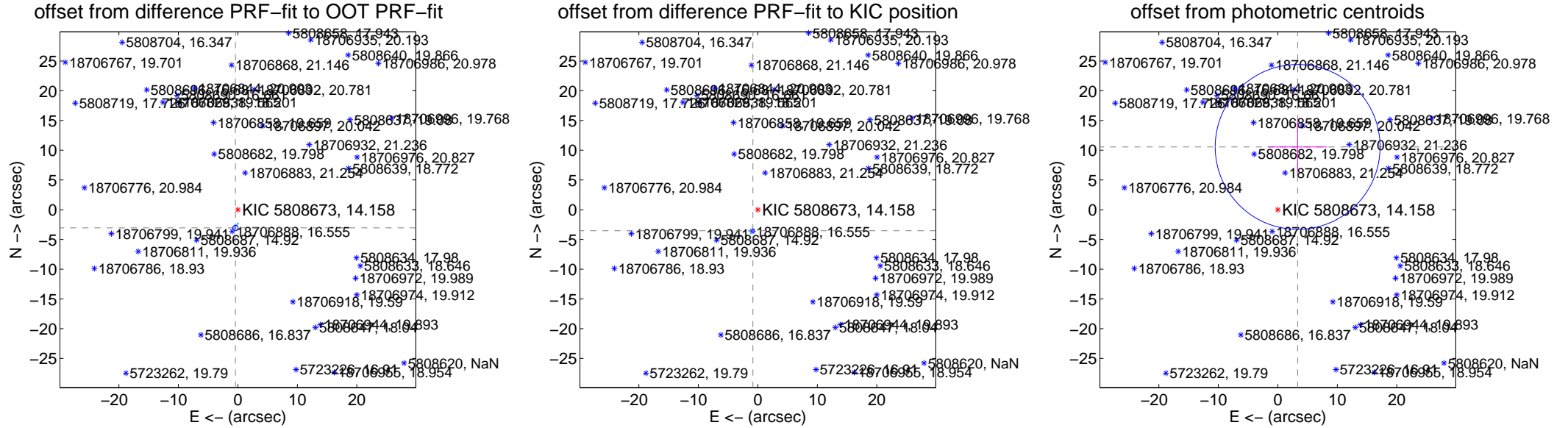
DV Centroid Data

Supplemental centroid analysis for 005808673-01. Kepler magnitude: 14.16. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

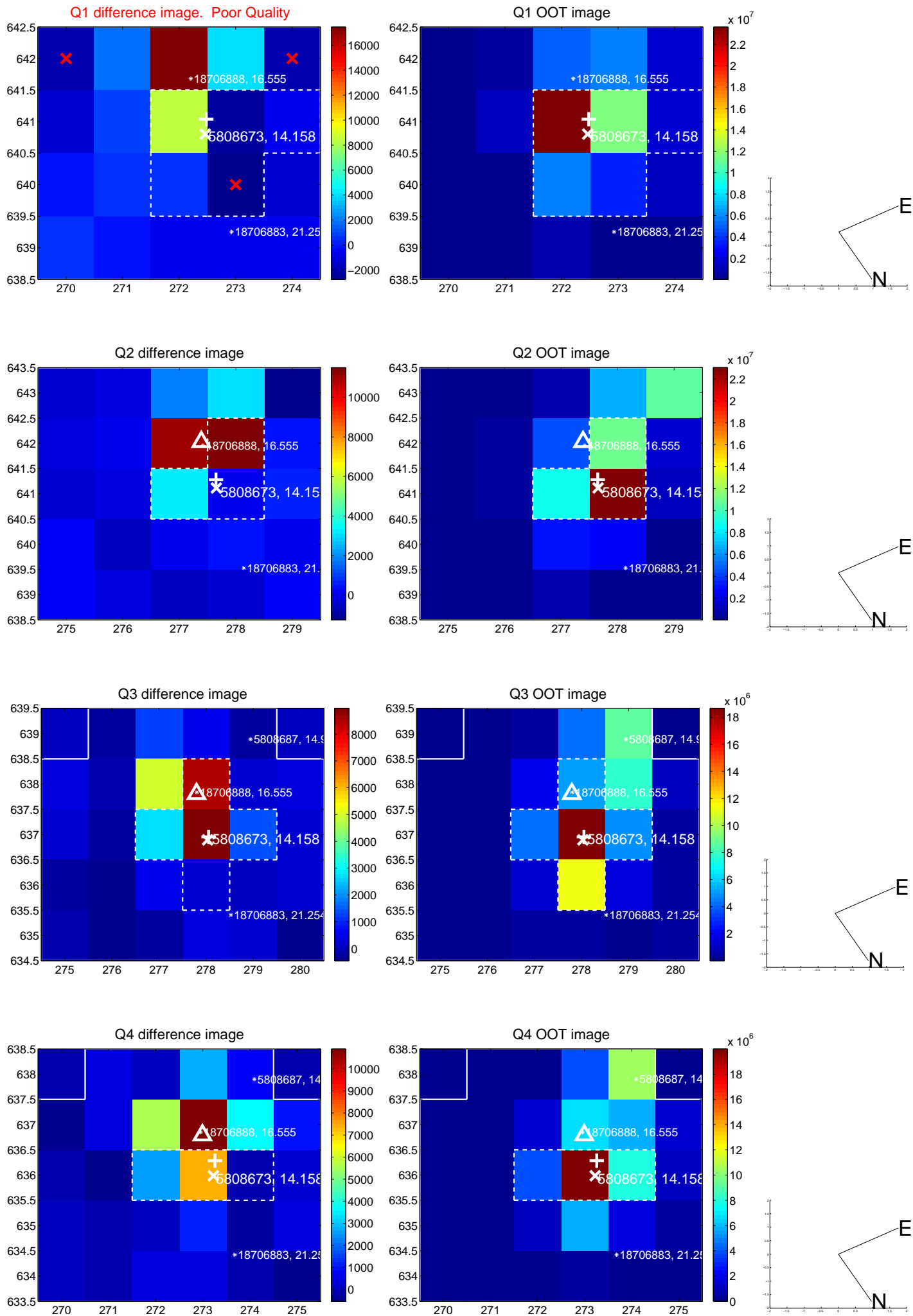
The direct PRF centroid is offset from the target star catalog position by about 0.94 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.082 \pm 0.146	21.15	0.410 \pm 0.102	-3.055 \pm 0.146
PRF-fit source offset from KIC position	3.635 \pm 0.085	42.90	0.829 \pm 0.080	-3.540 \pm 0.083
photometric centroid source offset	11.08 \pm 4.62	2.40	-3.34 \pm 4.98	10.56 \pm 4.58

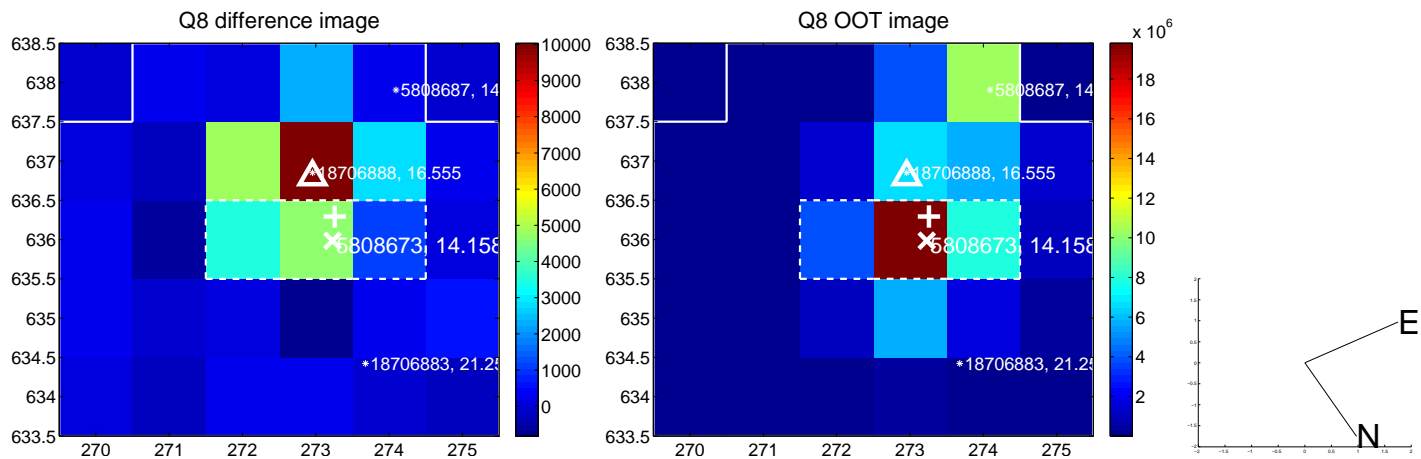
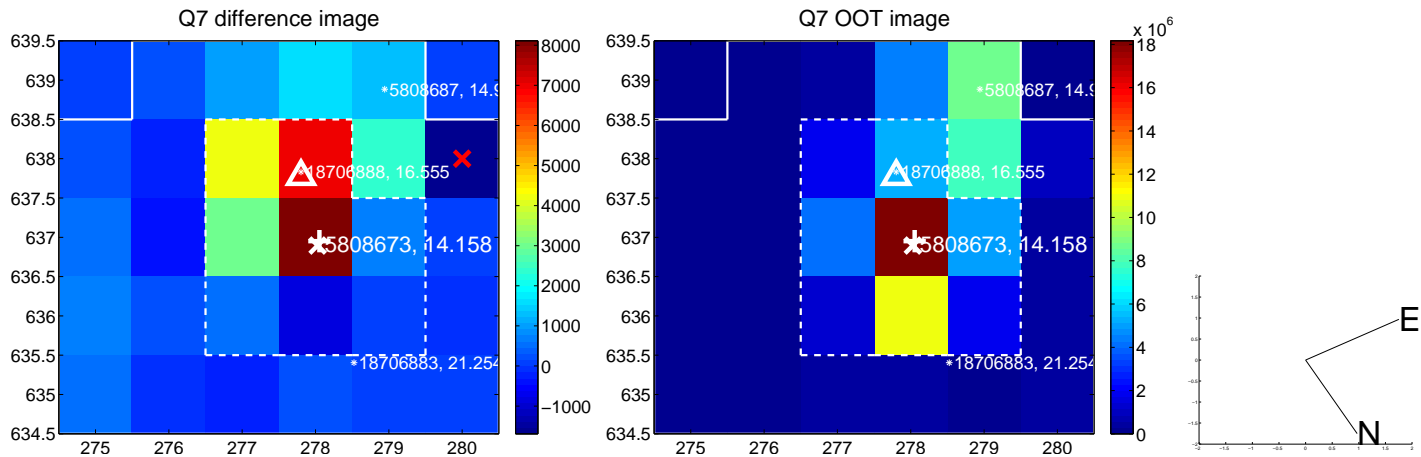
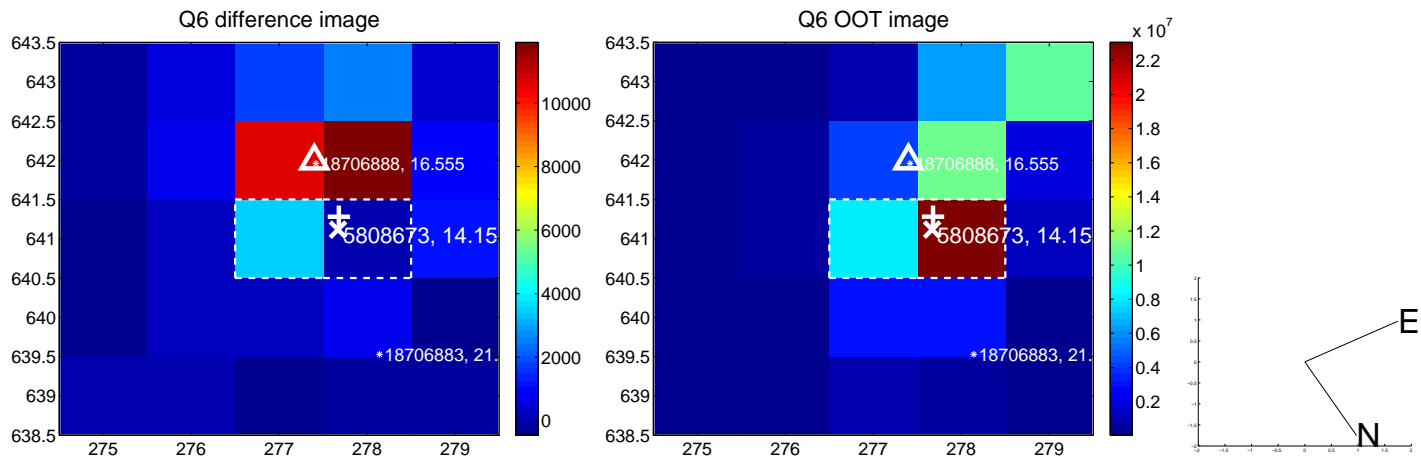
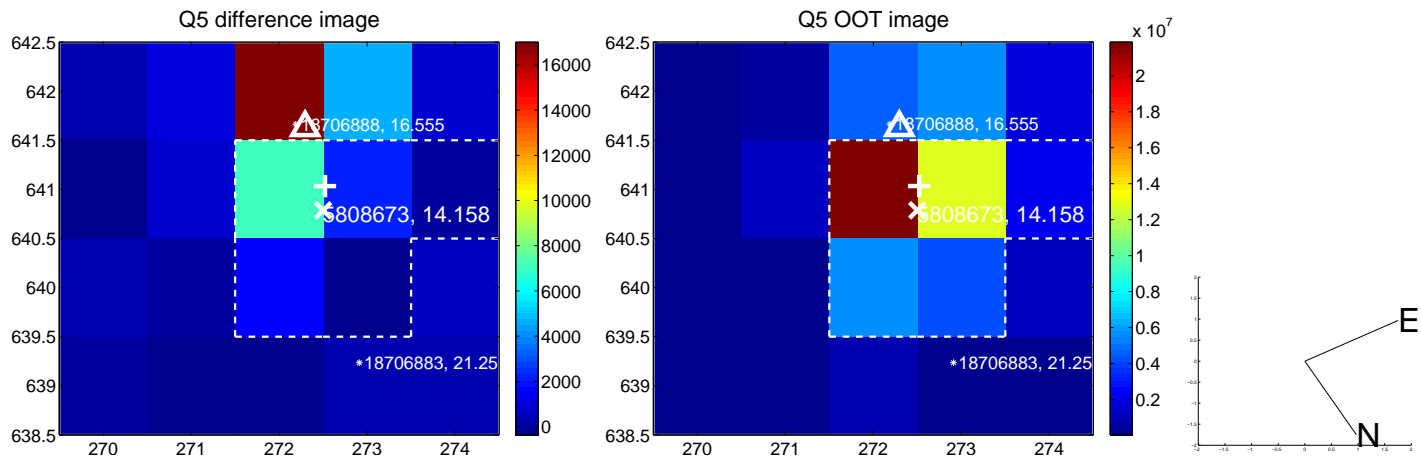


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

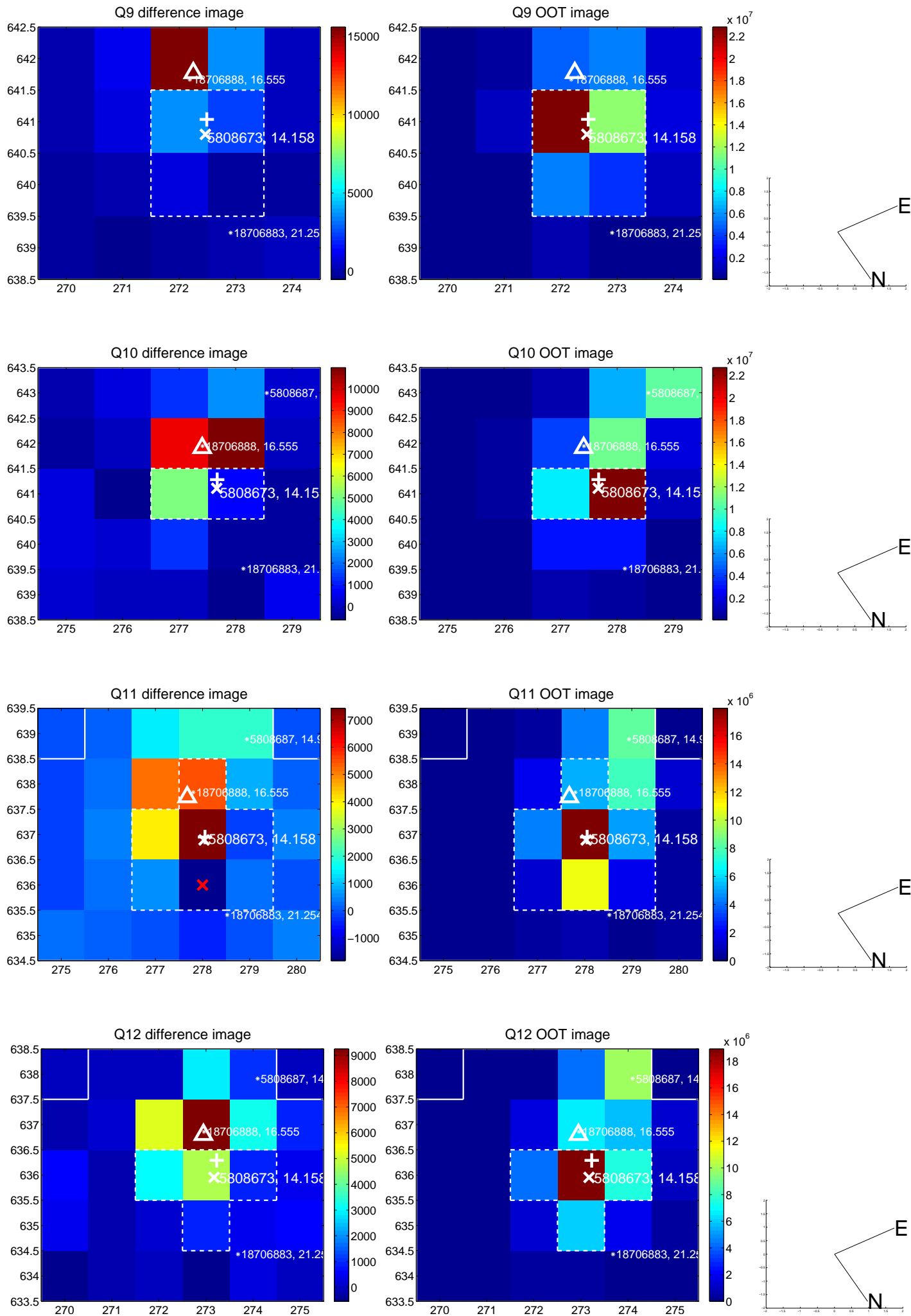
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



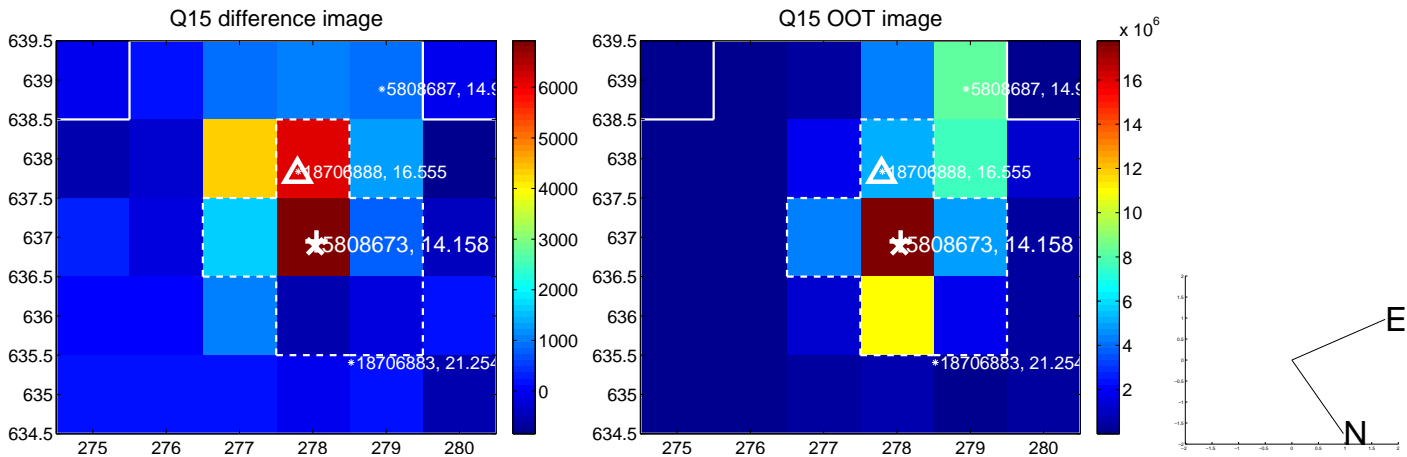
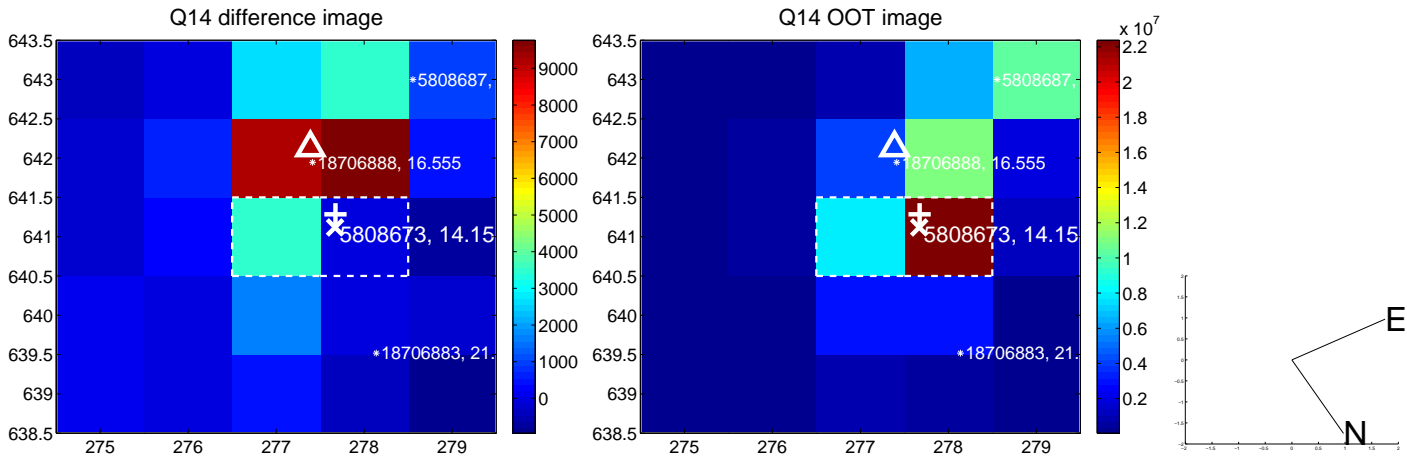
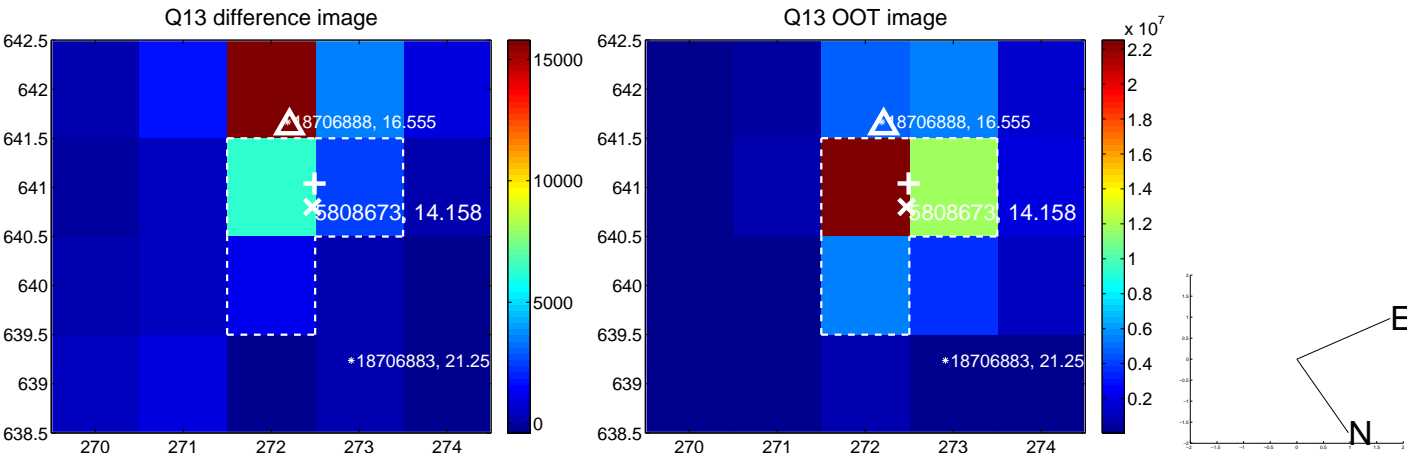
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



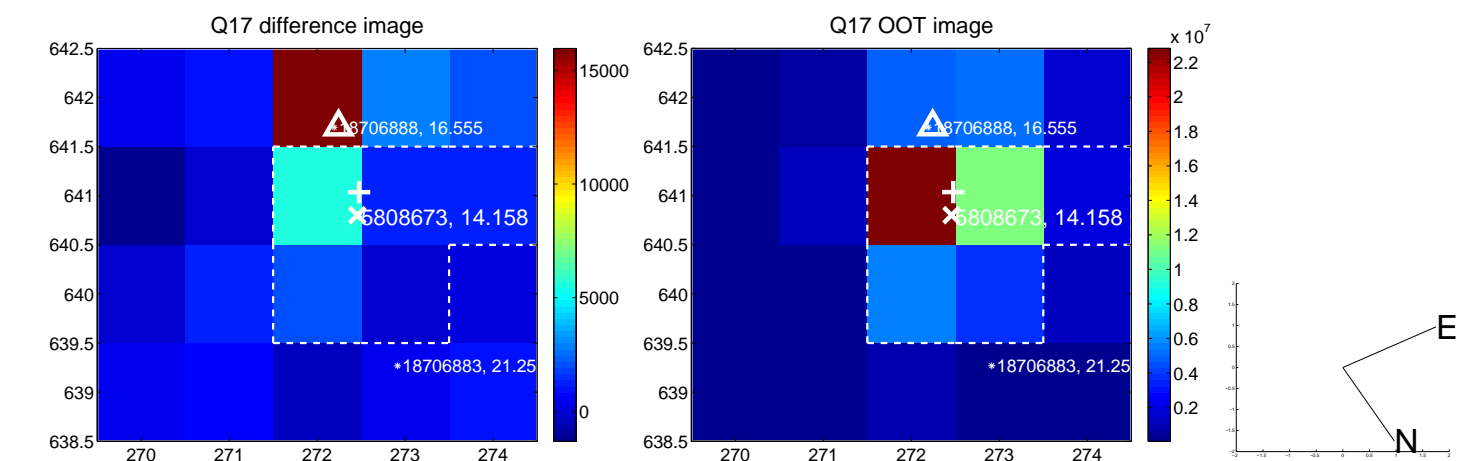
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



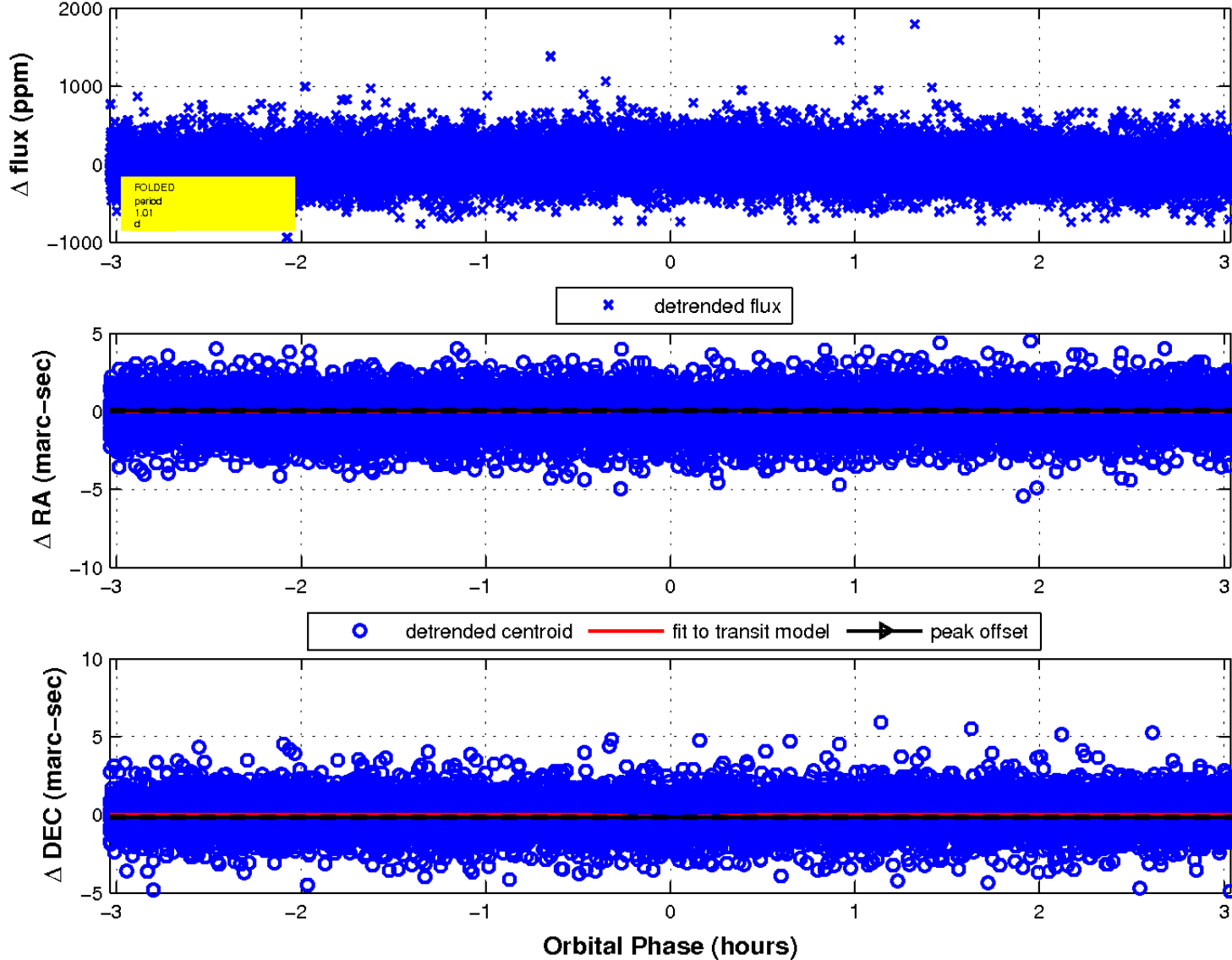
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

