

KIC 006289669

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})
006289669-01	OBS	No	0.665030	132.102677	38.0	5.274	8.7	7.6	0.63	4540	0.39	890.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006289669-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_FEW_DIFFS

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

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

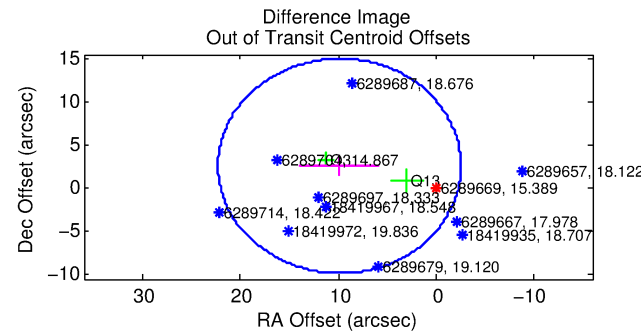
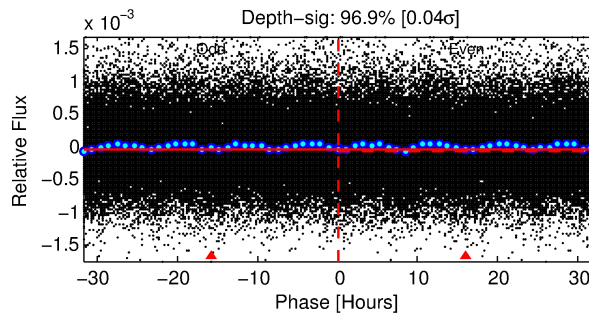
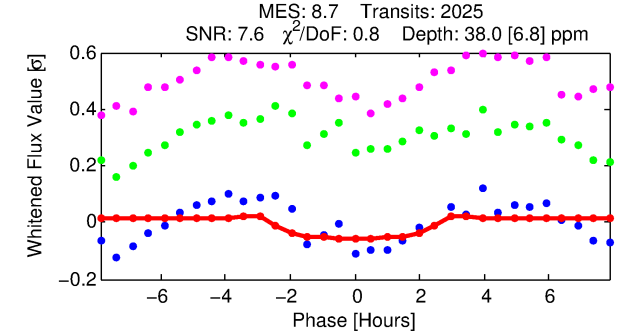
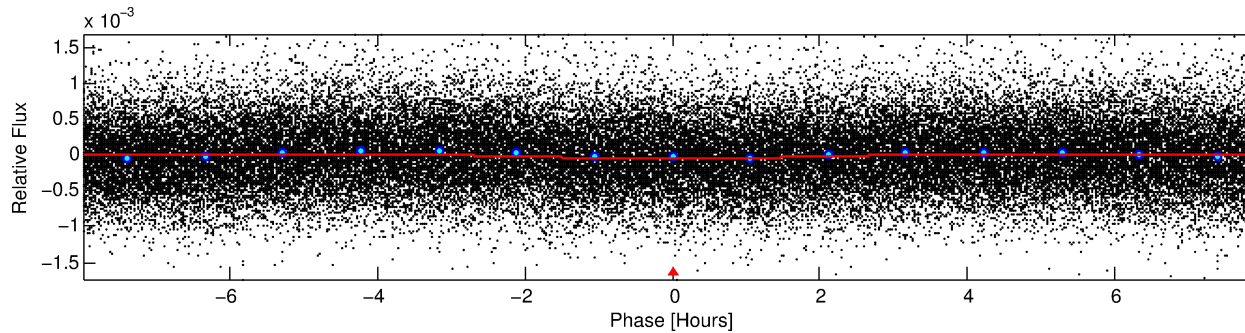
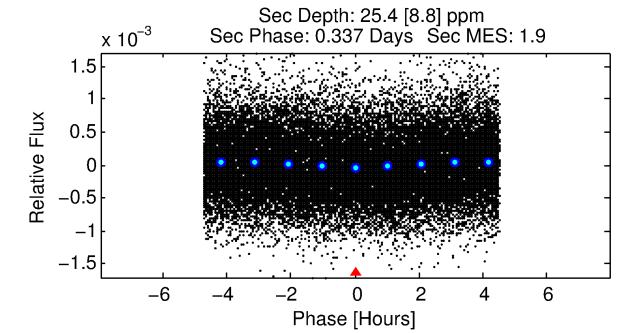
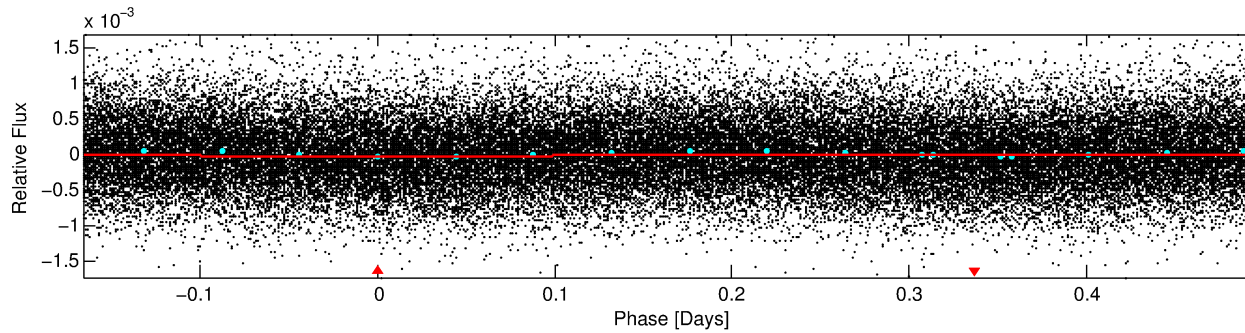
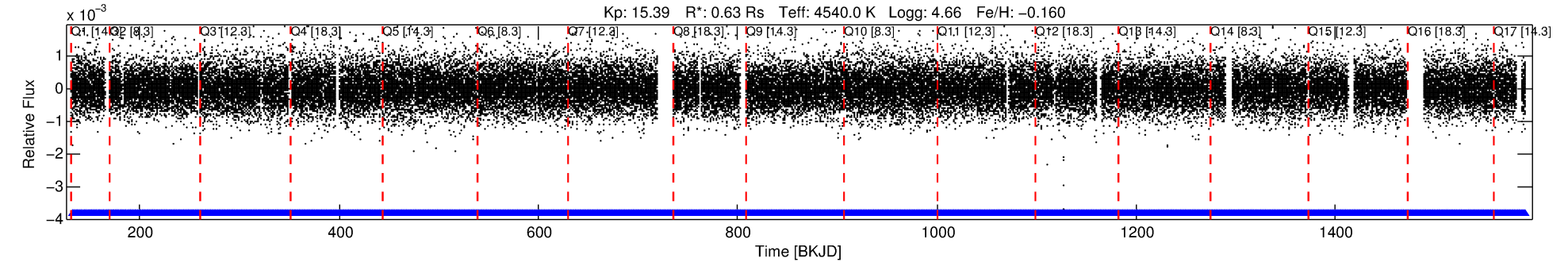
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006289669-01

No Significant Match Found

DV One-Page Summary

KIC: 6289669 Candidate: 1 of 1 Period: 0.665 d



DV Fit Results:

Period = 0.66503 [0.00001] d
Epoch = 132.1027 [0.0068] BKJD
Rp/R* = 0.0057 [0.0046]
a/R* = 1.12 [0.57]
b = 0.54 [3.39]
Seff = 890.86 [144.15]
Teq = 1393 [56] K
Rp = 0.39 [0.32] Re
a = 0.0131 [0.0011] AU
Ag = 15.34 [25.51] [0.56σ]
Teffp = 4262 [1773] K [1.62σ]

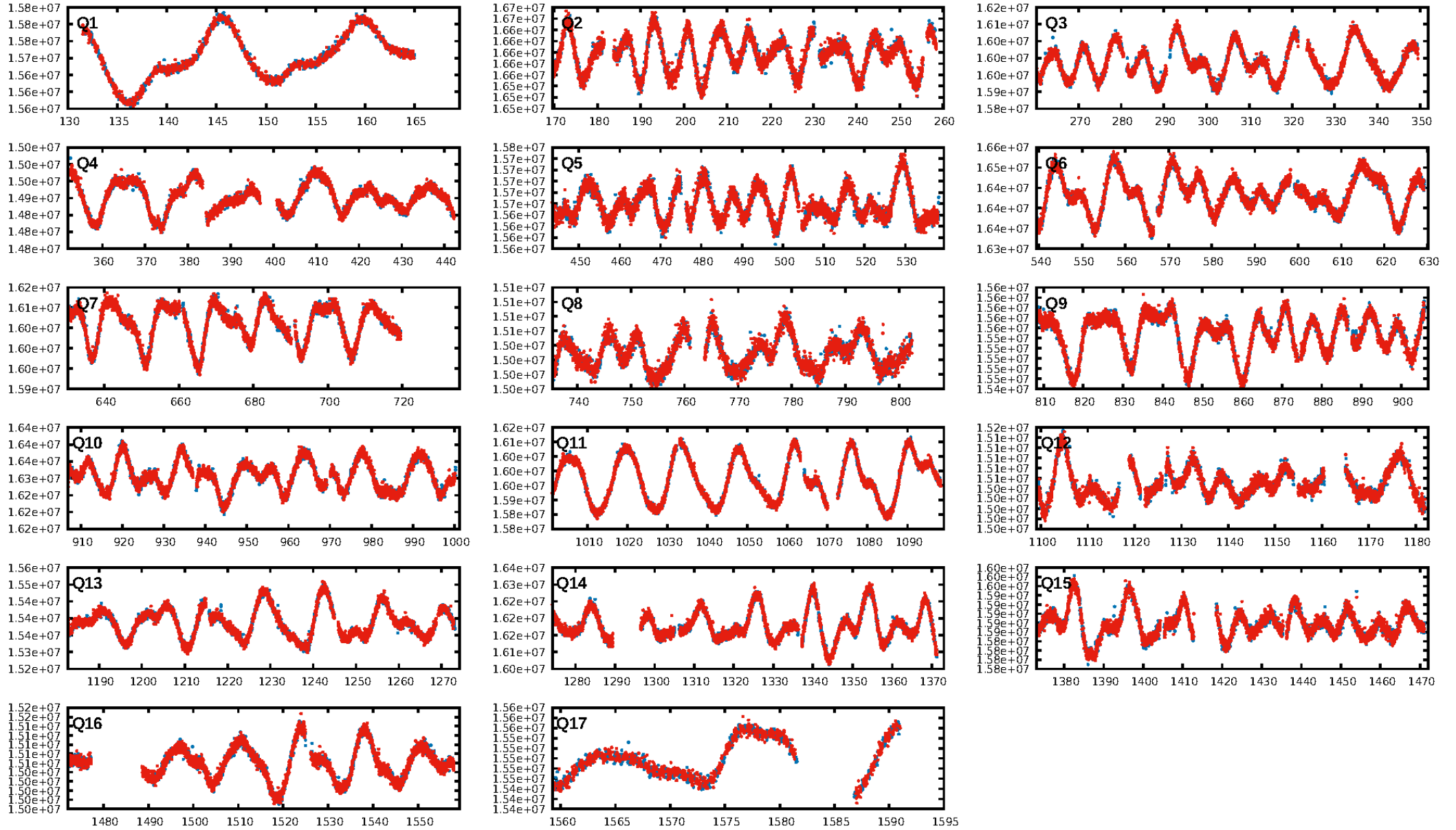
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1934/1934]
GhostDiagnostic-chr: -0.8692
Centroid-sig: 53.5%
Centroid-so: 0.870 arcsec [0.58σ]
OotOffset-rm: 10.195 arcsec [2.46σ]
OotOffset-st: 0/1/0/1 [2]
KicOffset-rm: 10.062 arcsec [2.87σ]
KicOffset-st: 0/1/0/1 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [17/17]

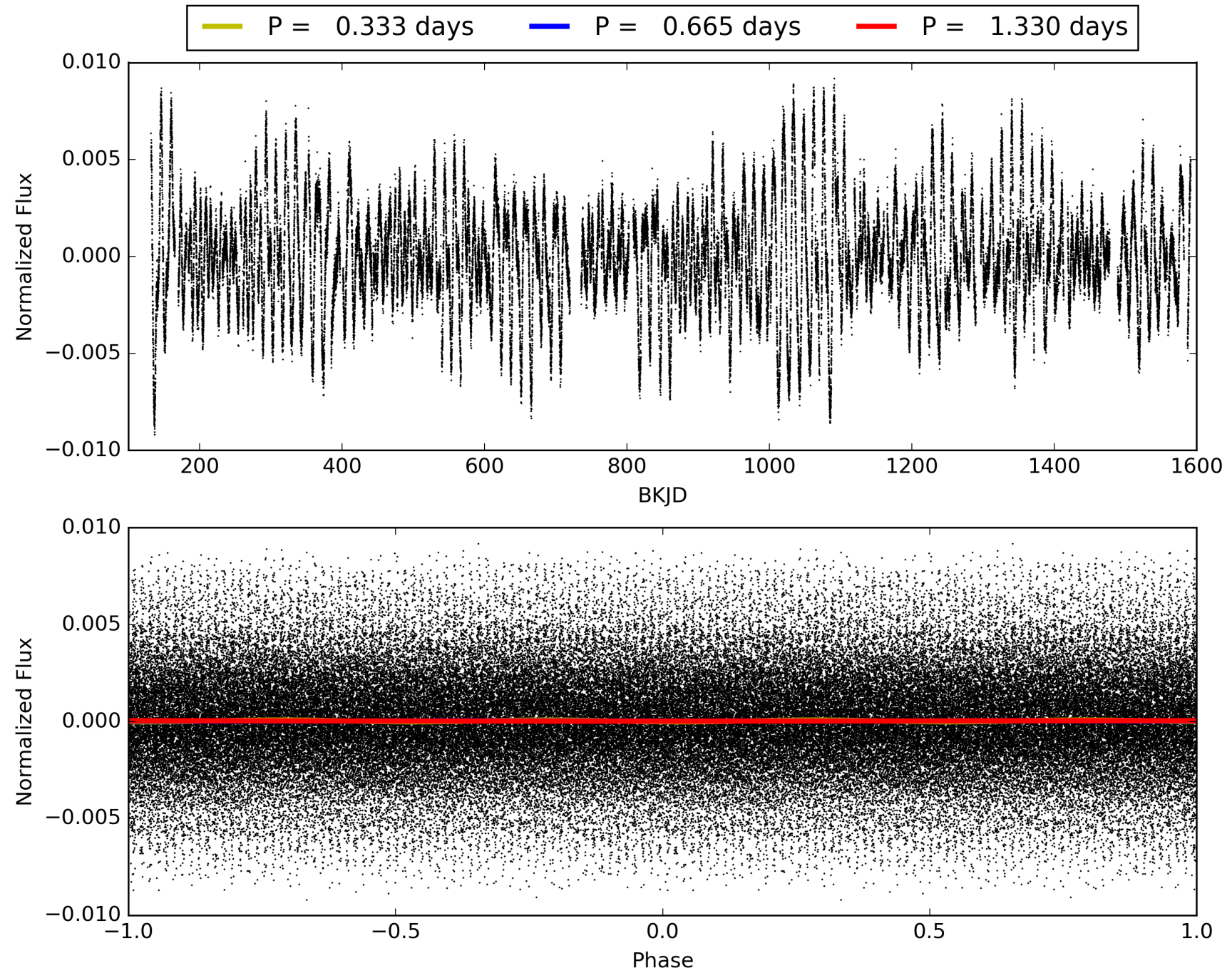
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:52:45 Z

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

TCE 006289669-01, PDC Light Curves

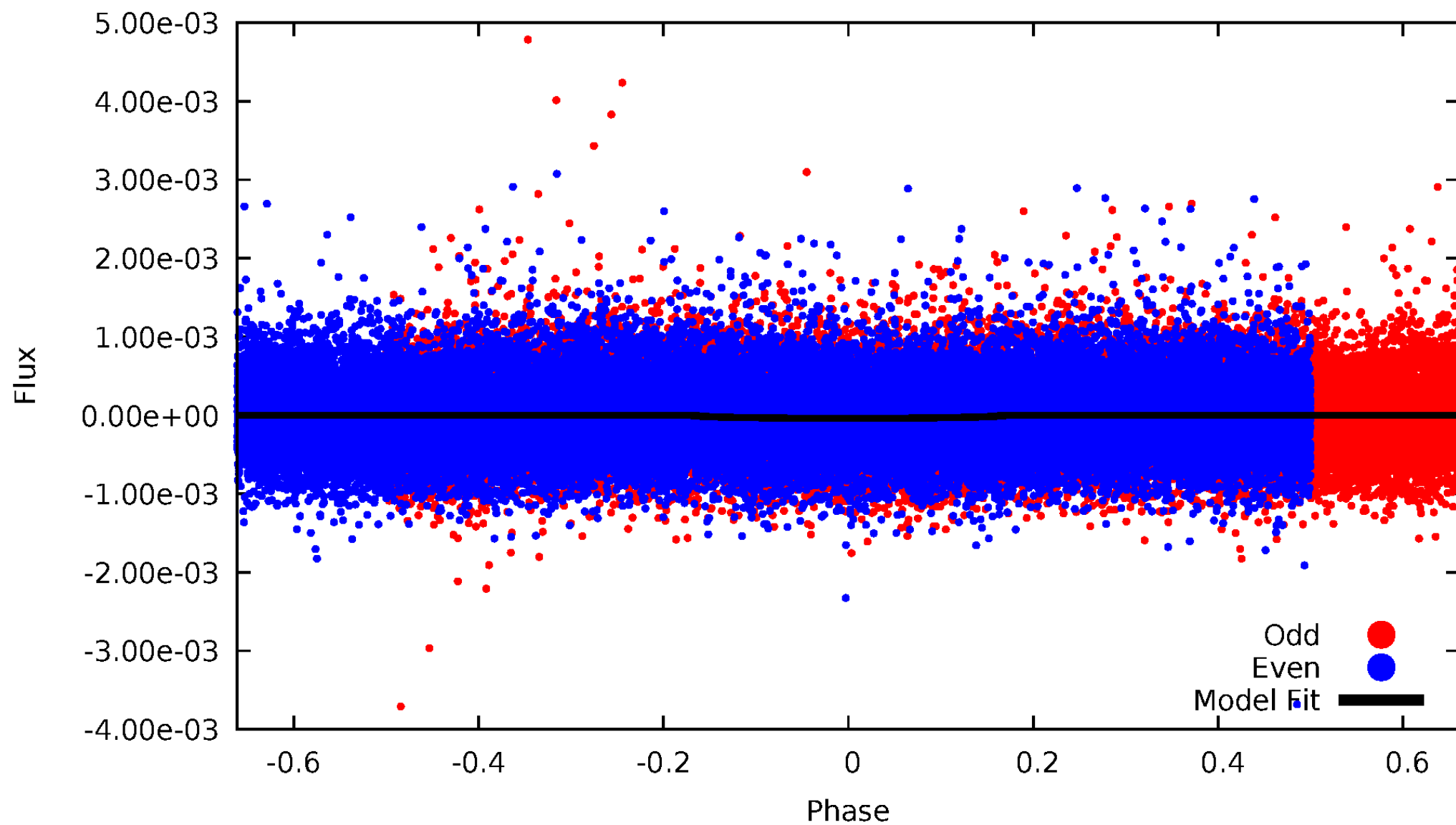


TCE 006289669-01



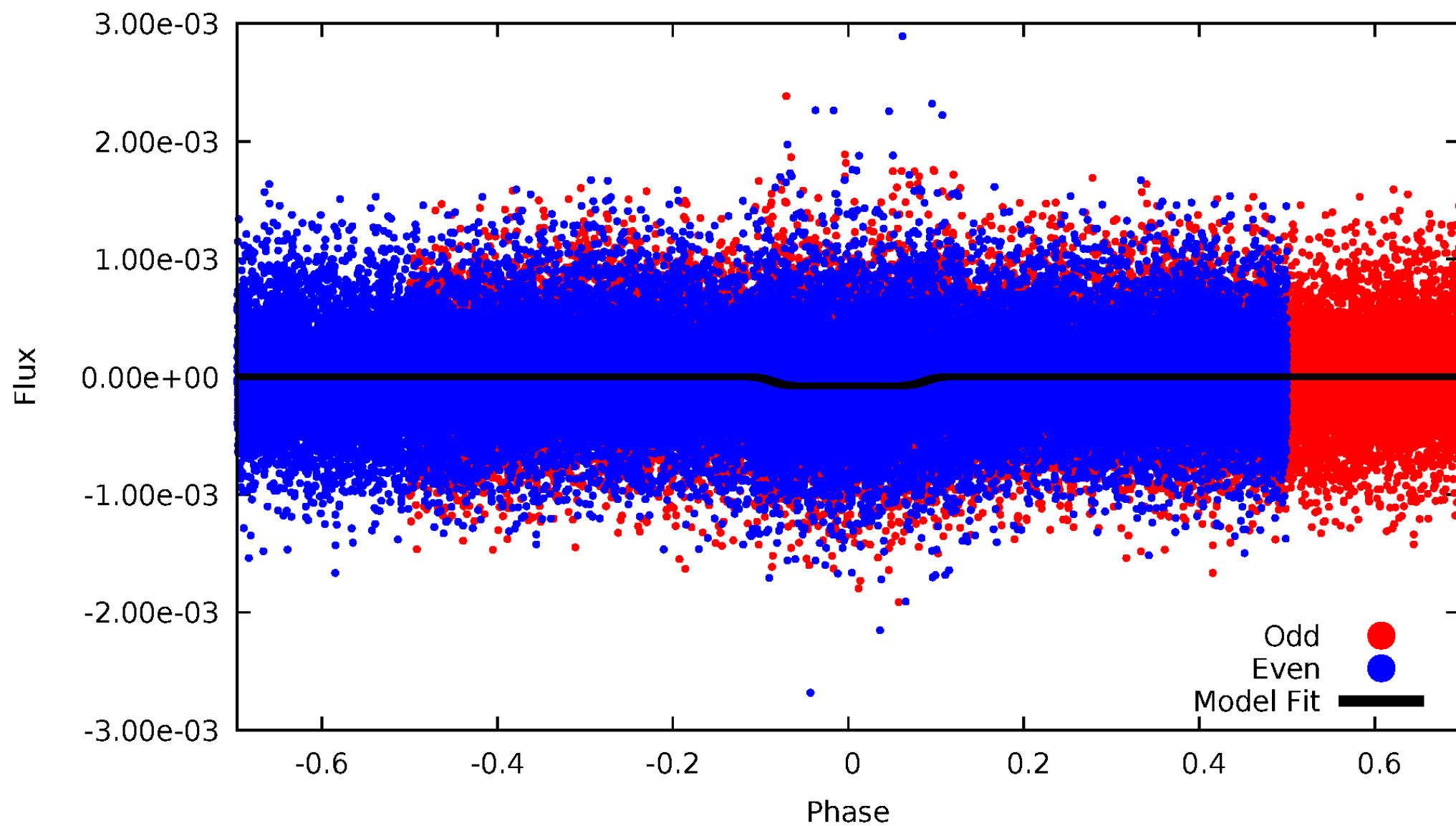
DV Odd/Even

TCE 006289669-01



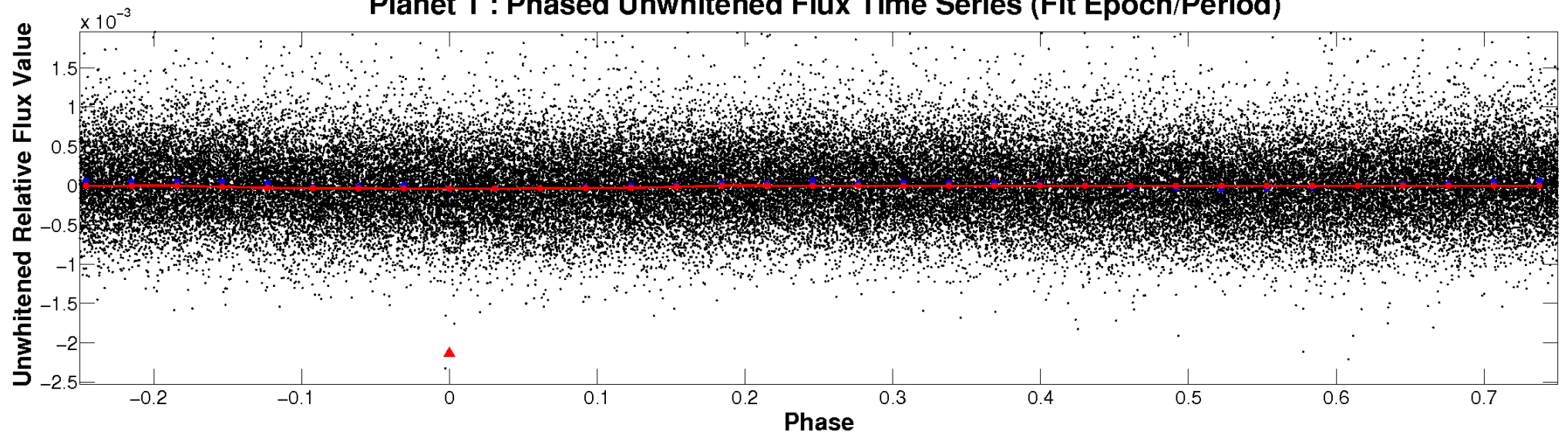
ALT Odd/Even

TCE 006289669-01

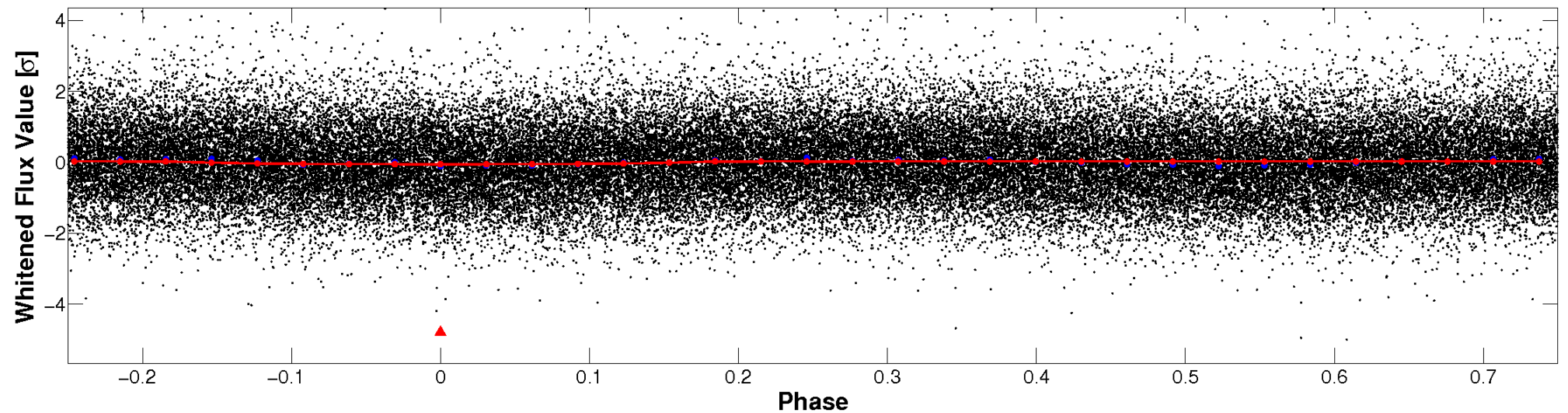


Non-Whitened Vs. Whitened Light Curve

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

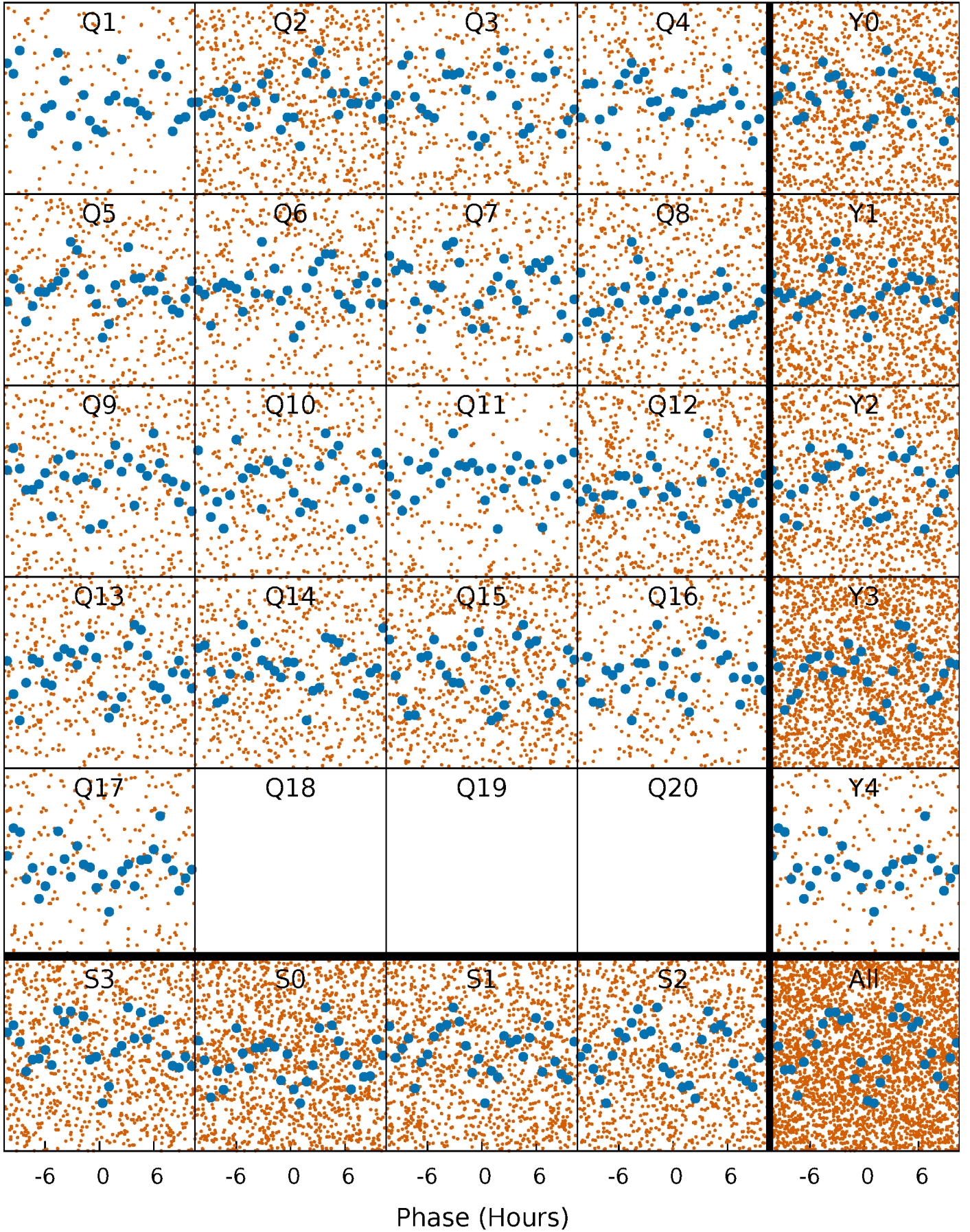


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



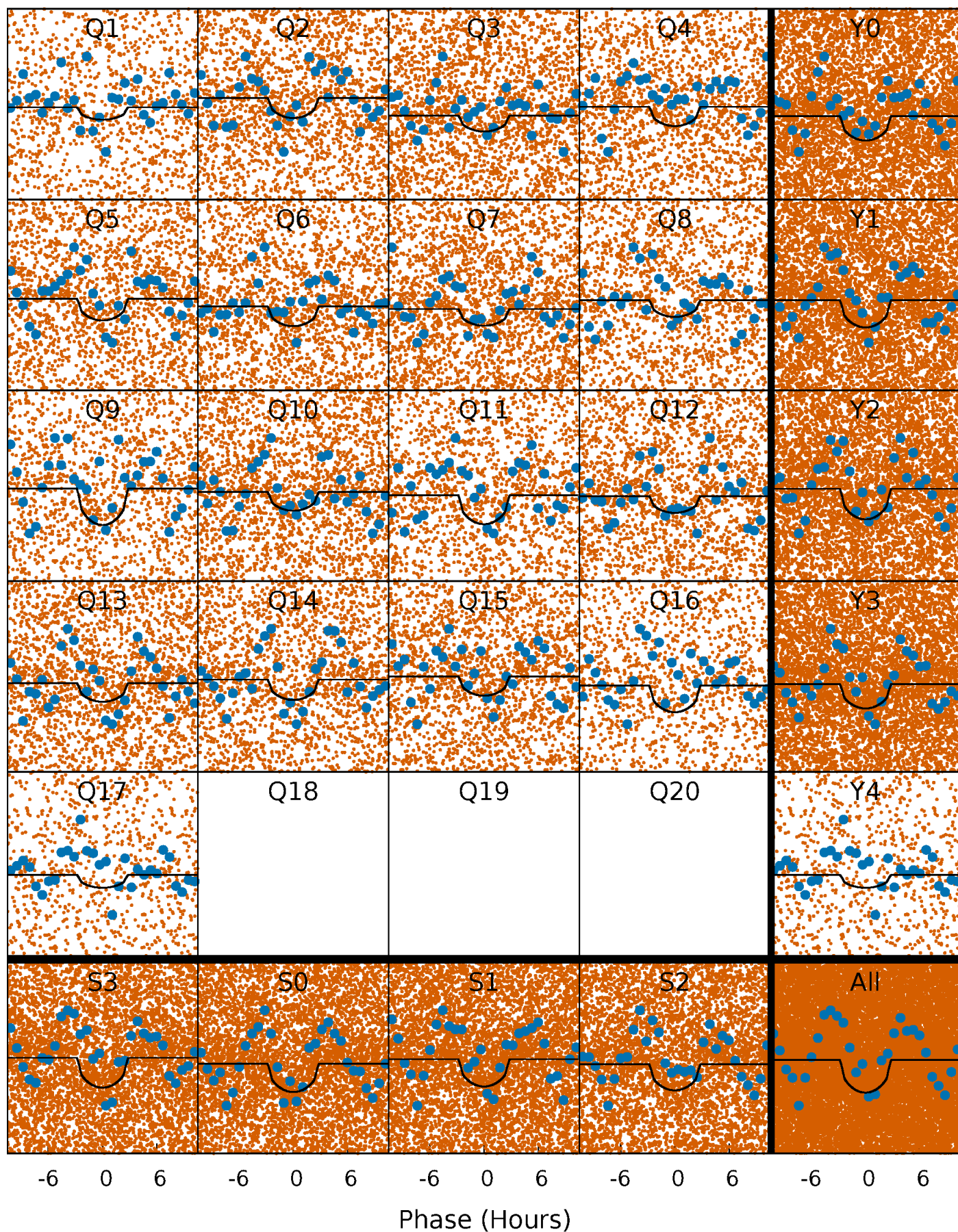
PDC Quarter-Phased Transit Curves

TCE 006289669-01 P= 0.665030 Days $T_0=132.102677$ (BKJD)



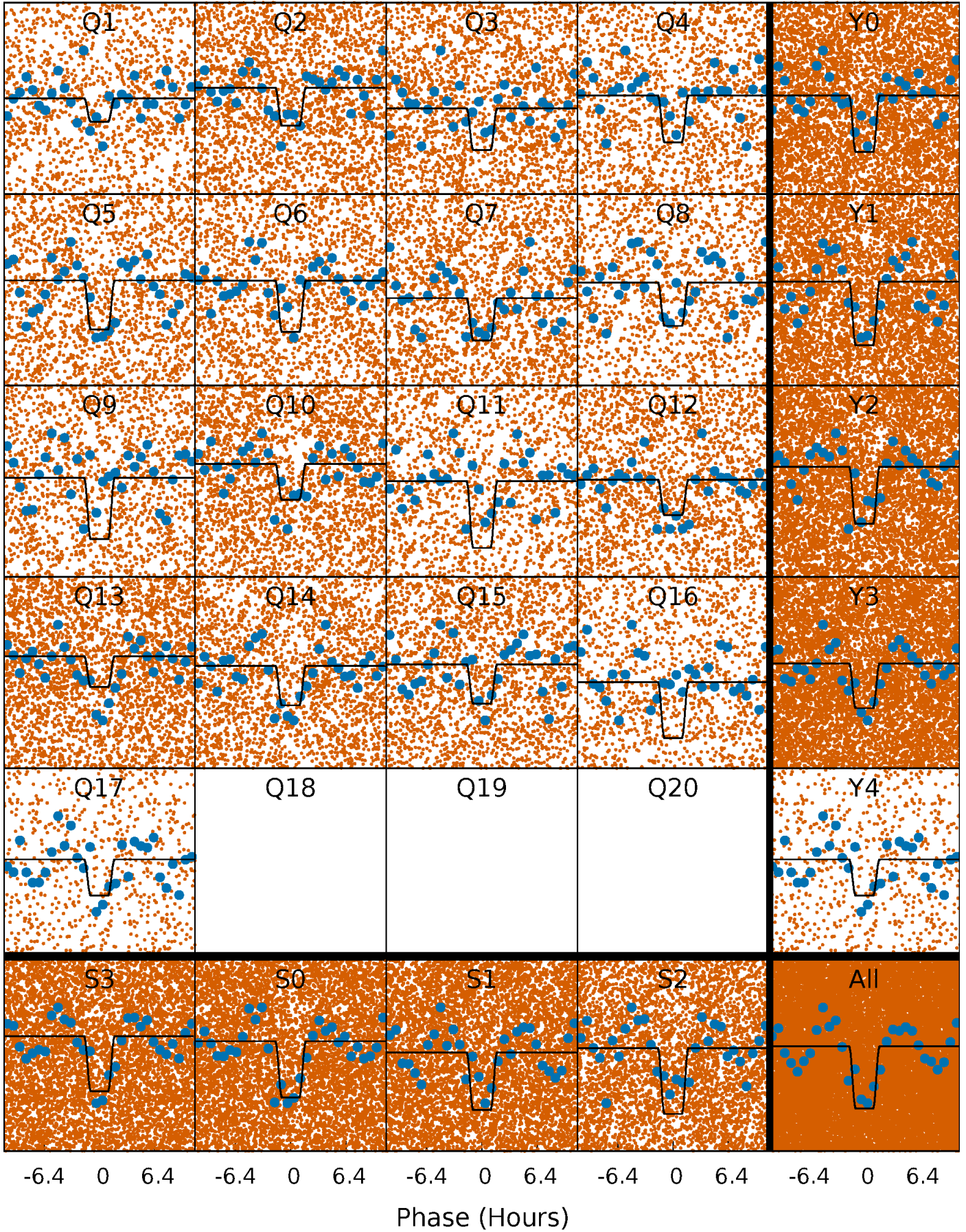
DV Quarter-Phased Transit Curves

TCE 006289669-01 P= 0.665030 Days $T_0=132.102677$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

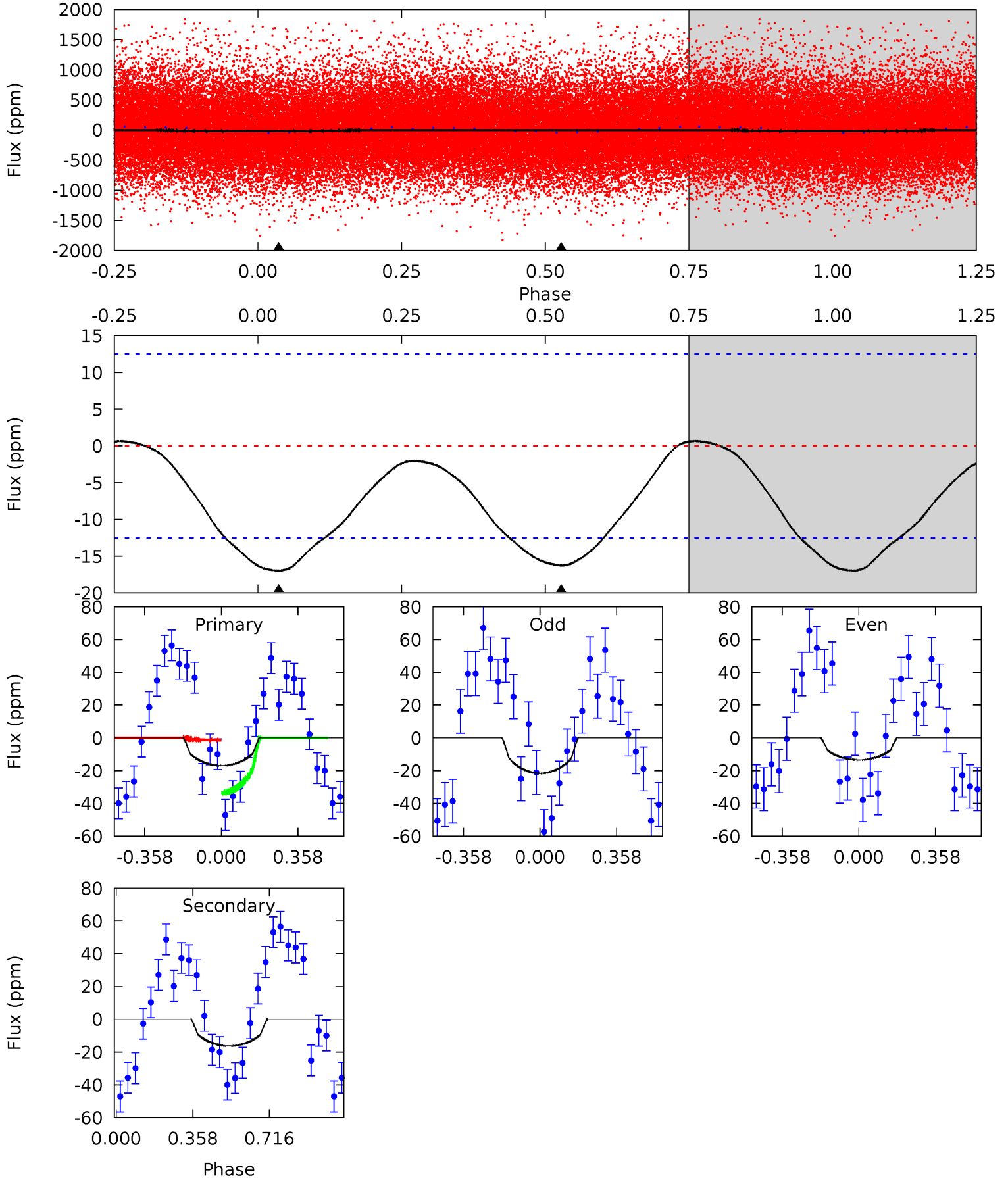
TCE 006289669-01 P= 0.665052 Days $T_0=132.097192$ (BKJD)



DV Model-Shift Uniqueness Test

006289669-01, P = 0.665030 Days, E = 131.437647 Days

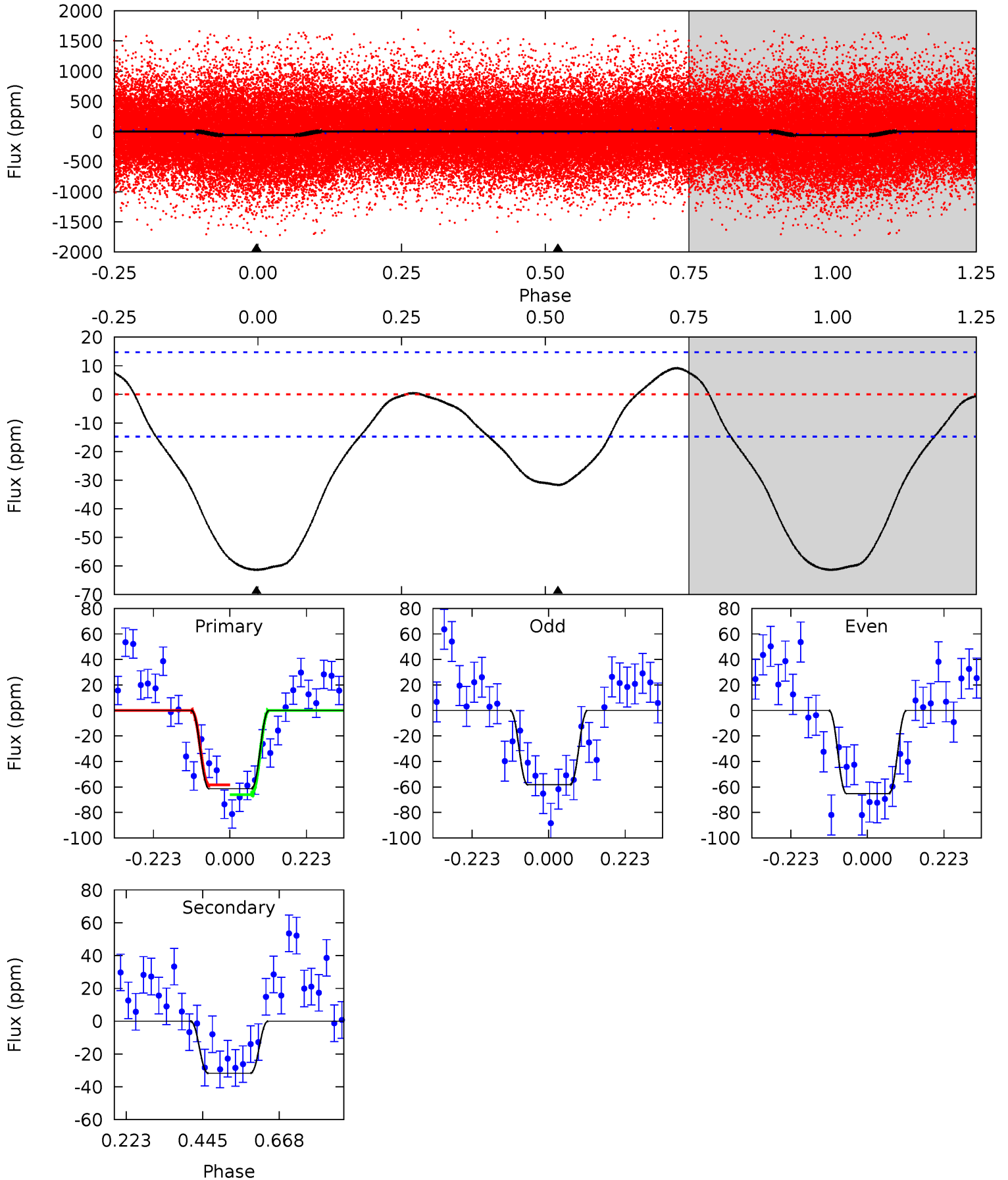
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.83	5.58	0	0	4.29	0.92	0.44	5.83	5.83	5.58	5.58	1.39	0.84	0.04	5.51



Alt Model-Shift Uniqueness Test

006289669-01, P = 0.665052 Days, E = 131.432140 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.3	9.47	0	0	4.39	1.22	0.98	18.3	18.3	9.47	9.47	1.04	0.93	0.13	1.12



Stellar Parameters For KIC 006289669

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4540^{+122}_{-136}	$4.664^{+0.024}_{-0.052}$	$-0.160^{+0.300}_{-0.300}$	$0.632^{+0.070}_{-0.043}$	$0.693^{+0.055}_{-0.073}$	$3.871^{+0.495}_{-0.827}$
	+3%/-3%	+1%/-1%	+188%/-188%	+11%/-7%	+8%/-11%	+13%/-21%
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 006289669-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-16 ± 3	$0.46^{+0.30}_{-0.28}$	1961^{+64}_{-68}	3767^{+1646}_{-609}	$7.182^{+38.308}_{-4.637}$
Alt.	-32 ± 3	$0.63^{+0.30}_{-0.32}$	1963^{+61}_{-66}	3816^{+1085}_{-496}	$7.521^{+21.104}_{-4.038}$

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

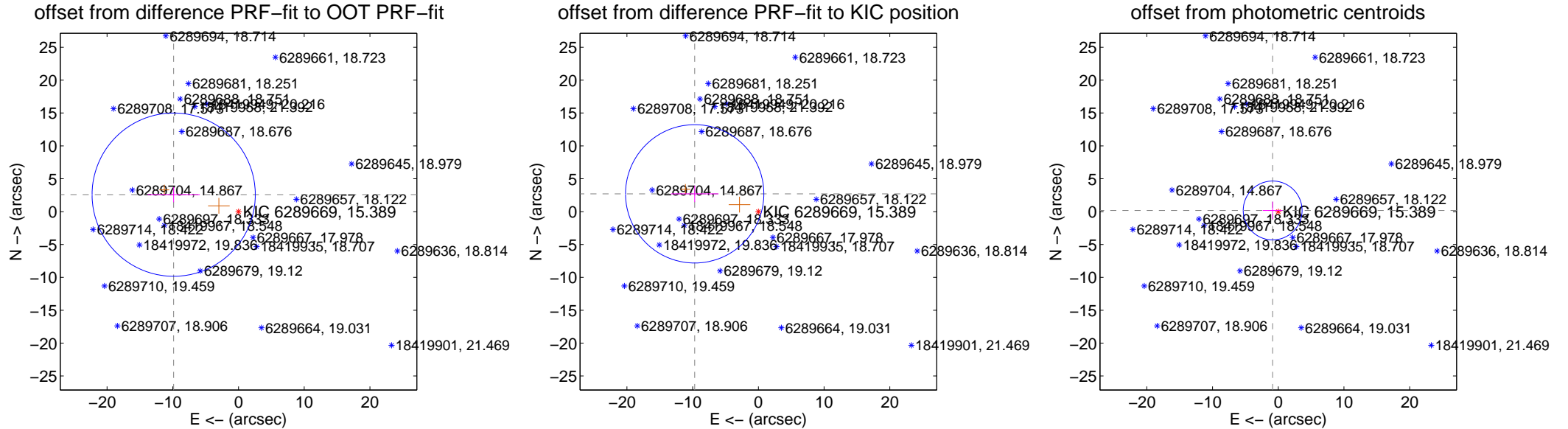
DV Centroid Data

Supplemental centroid analysis for 006289669-01. Kepler magnitude: 15.39. Transit SNR 7.57

There are 0 quarters with good PRF difference image offsets

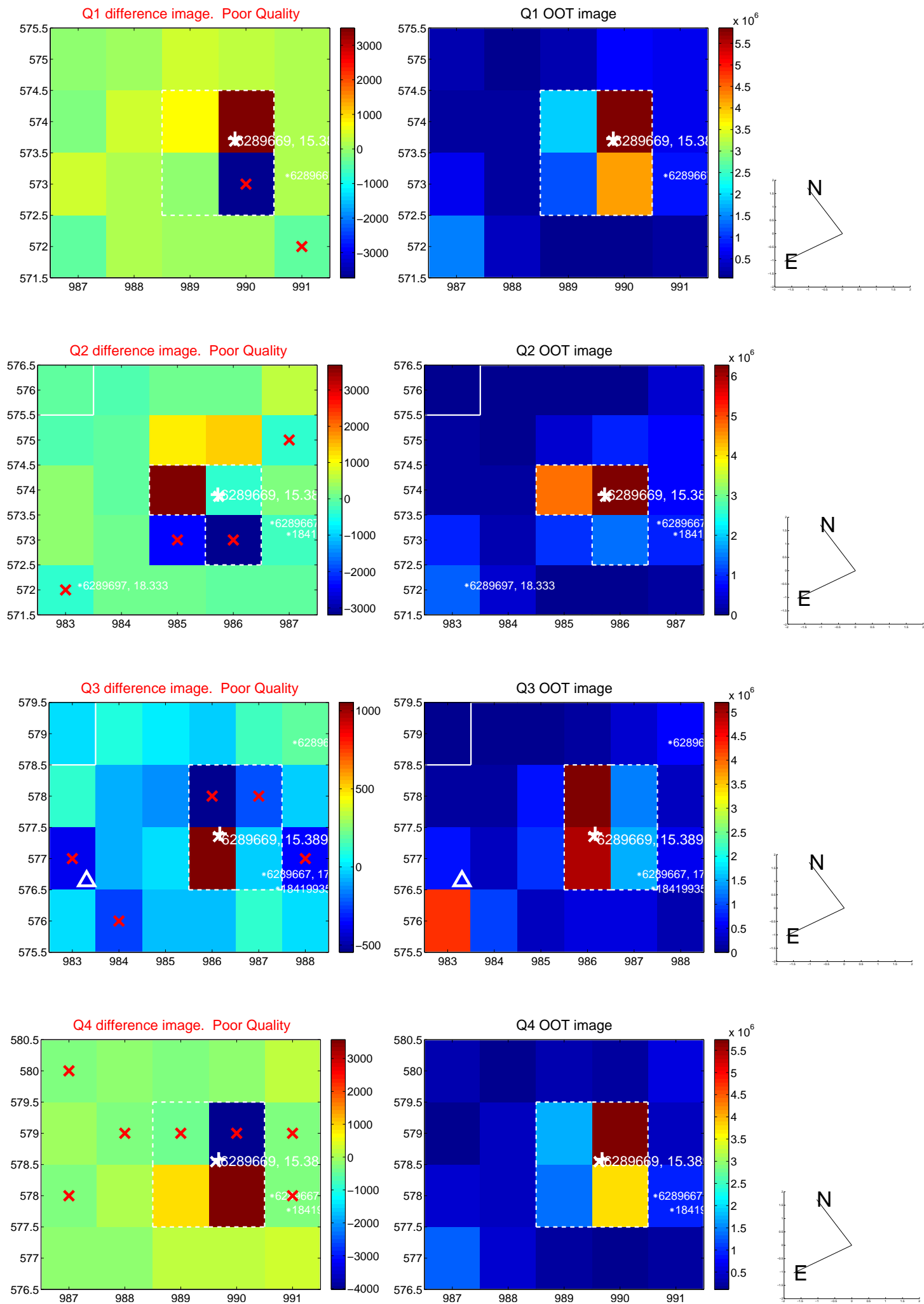
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	10.195 ± 4.139	2.46	9.863 ± 3.975	2.582 ± 1.163
PRF-fit source offset from KIC position	10.062 ± 3.507	2.87	9.692 ± 3.625	2.704 ± 1.254
photometric centroid source offset	0.87 ± 1.49	0.58	0.85 ± 1.50	0.18 ± 1.33

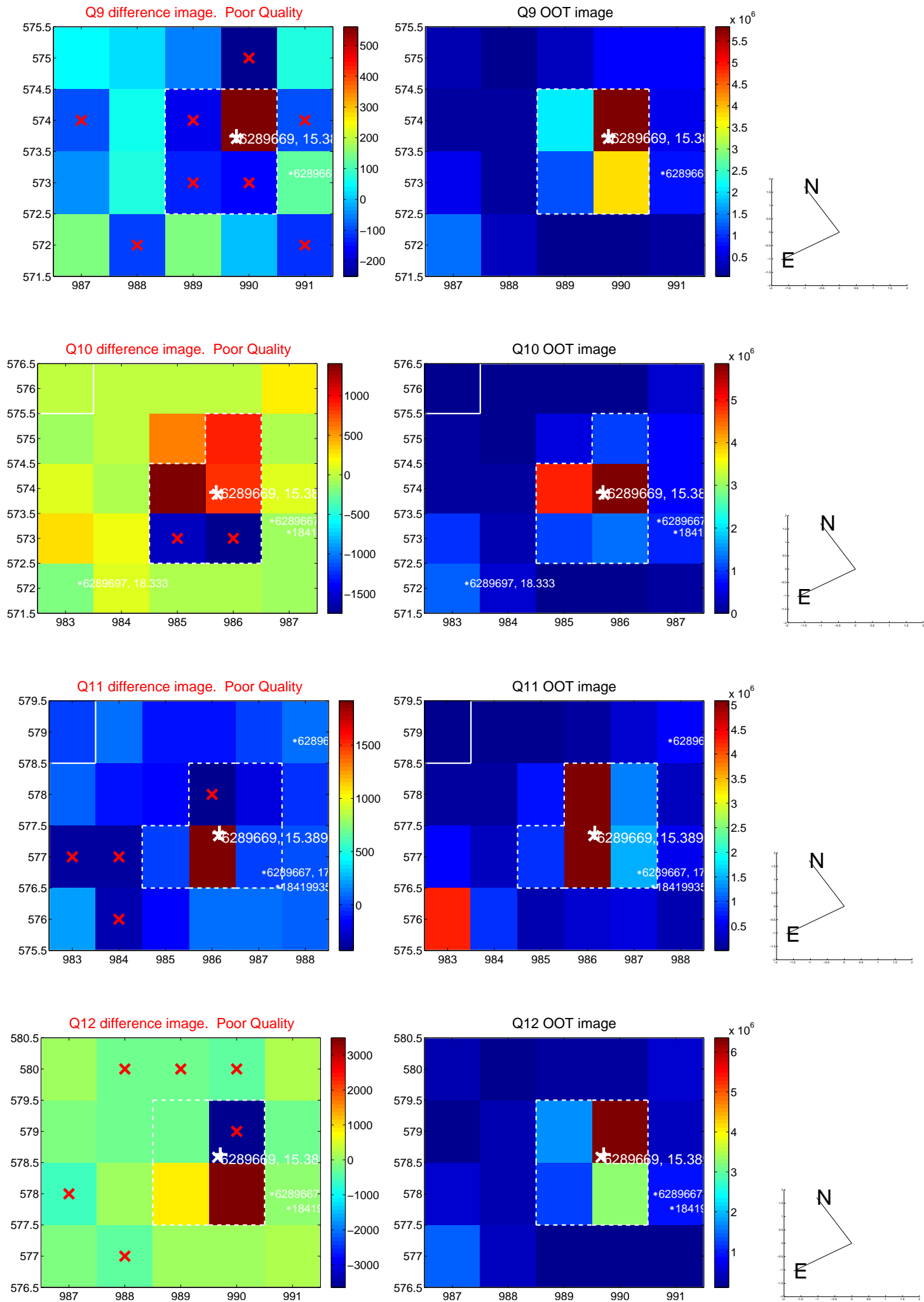


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

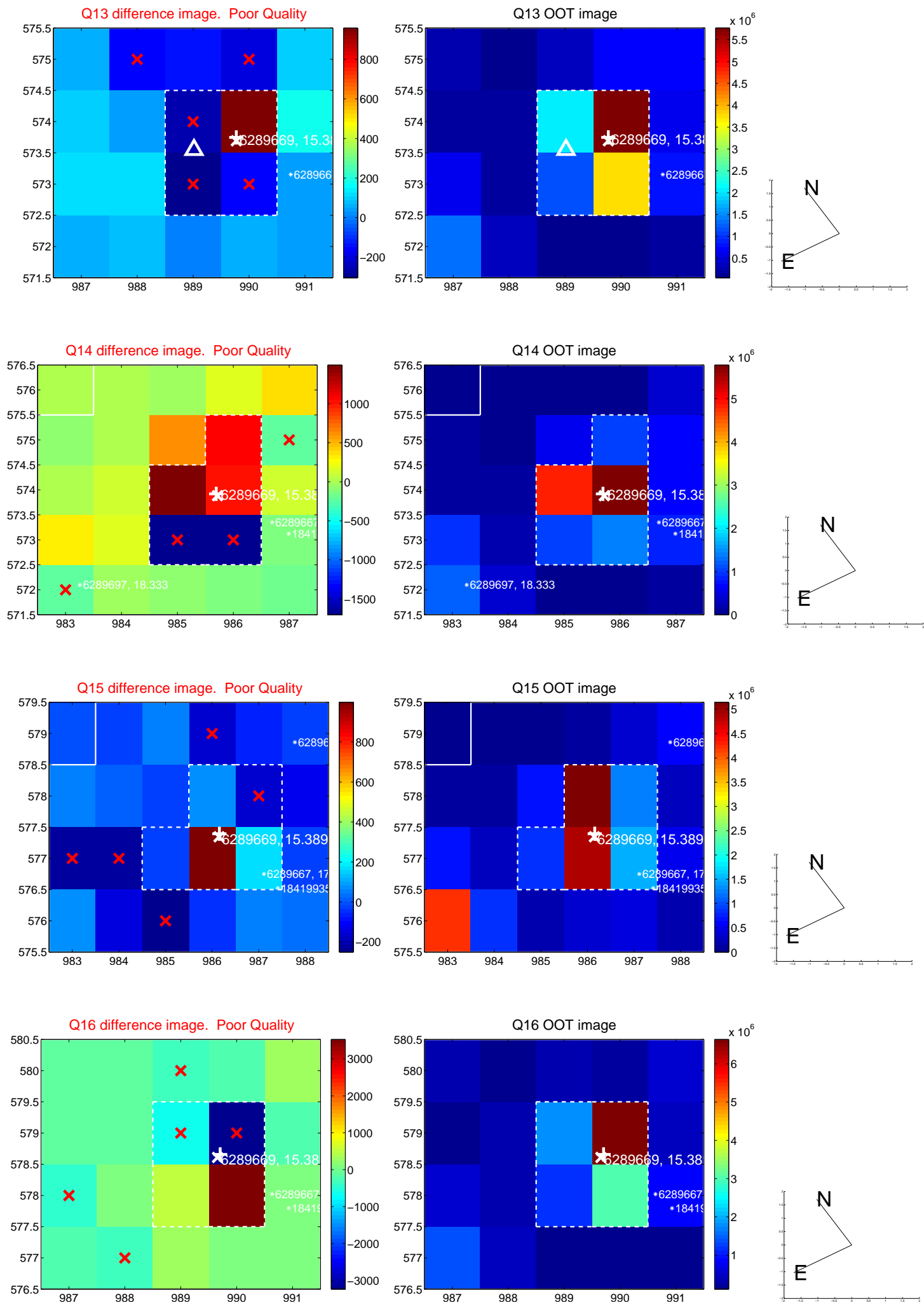
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



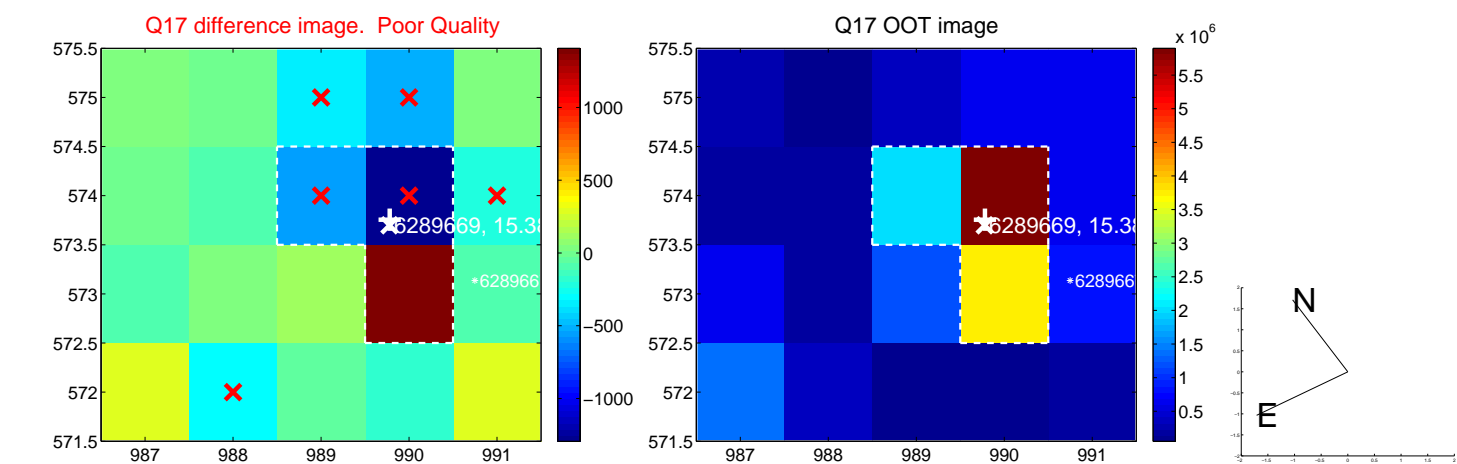
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



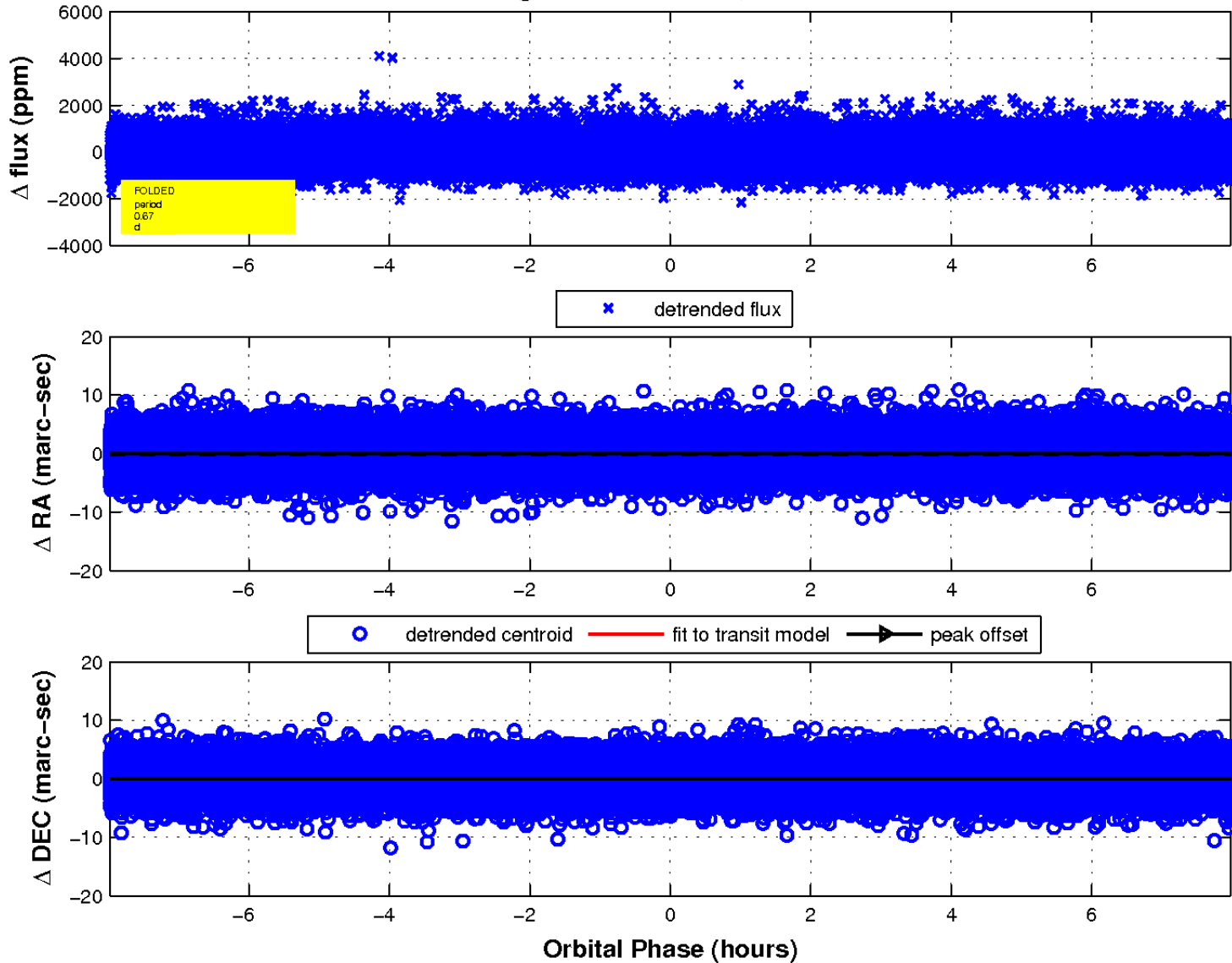
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

