

KIC 006962901

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})
006962901-01	OBS	7799.01	0.977181	132.233810	38.9	2.293	23.7	26.8	3.94	5596	2.91	25661.92

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006962901-01	OBS	FP	0.00	0	1	1	0	MOD_SEC_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST

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

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

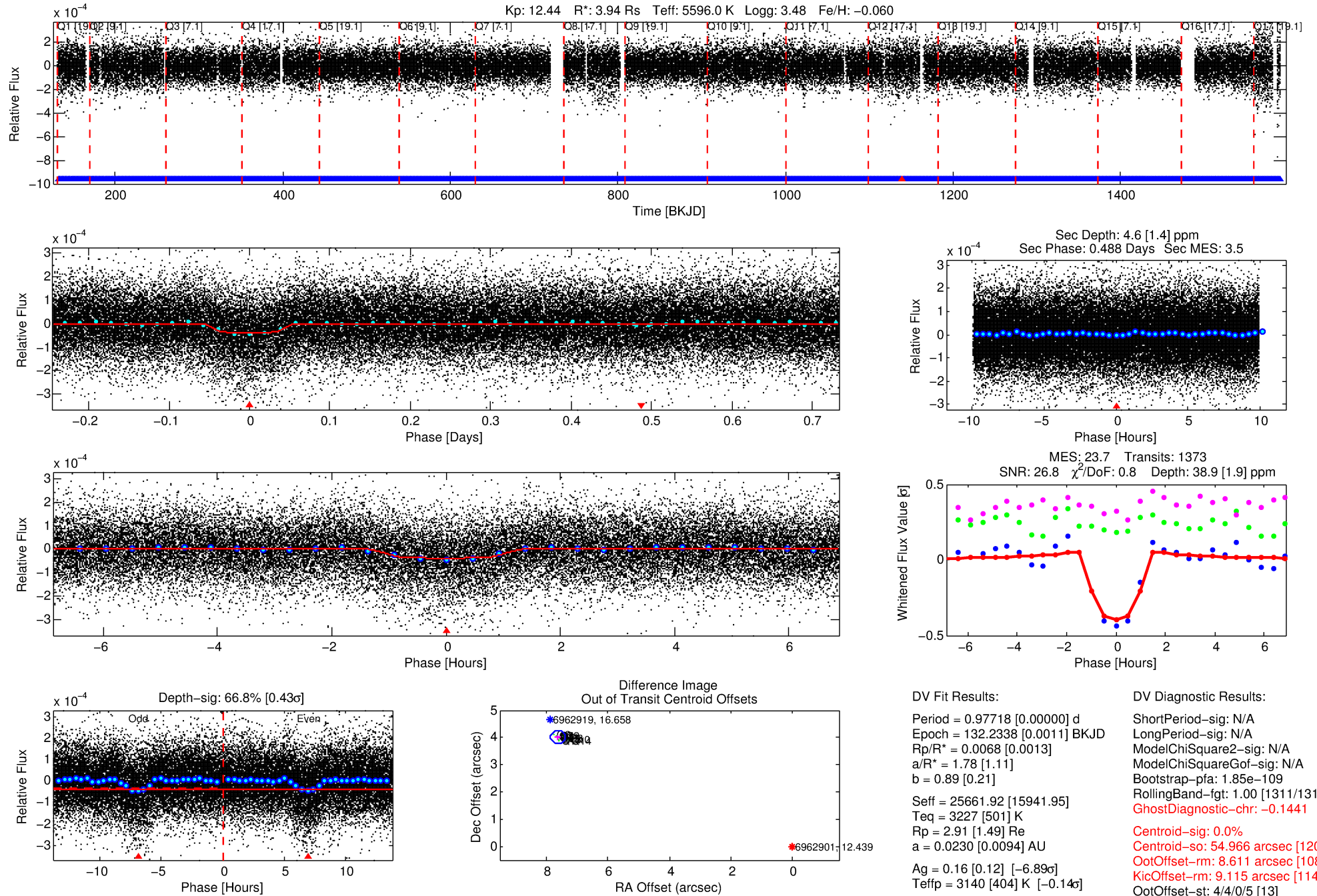
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006962901-01

No Significant Match Found

DV One-Page Summary

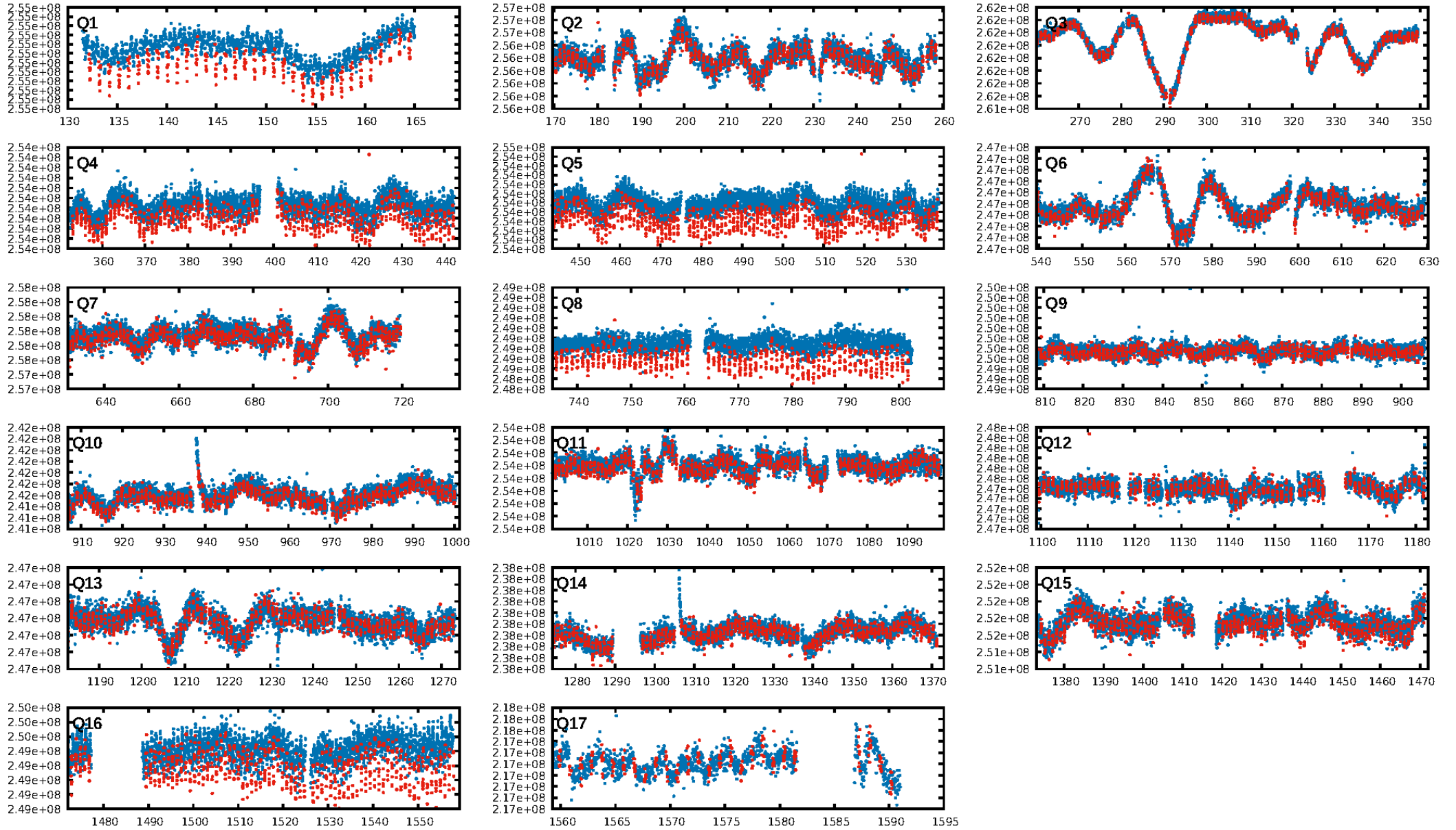
KIC: 6962901 Candidate: 1 of 1 Period: 0.977 d



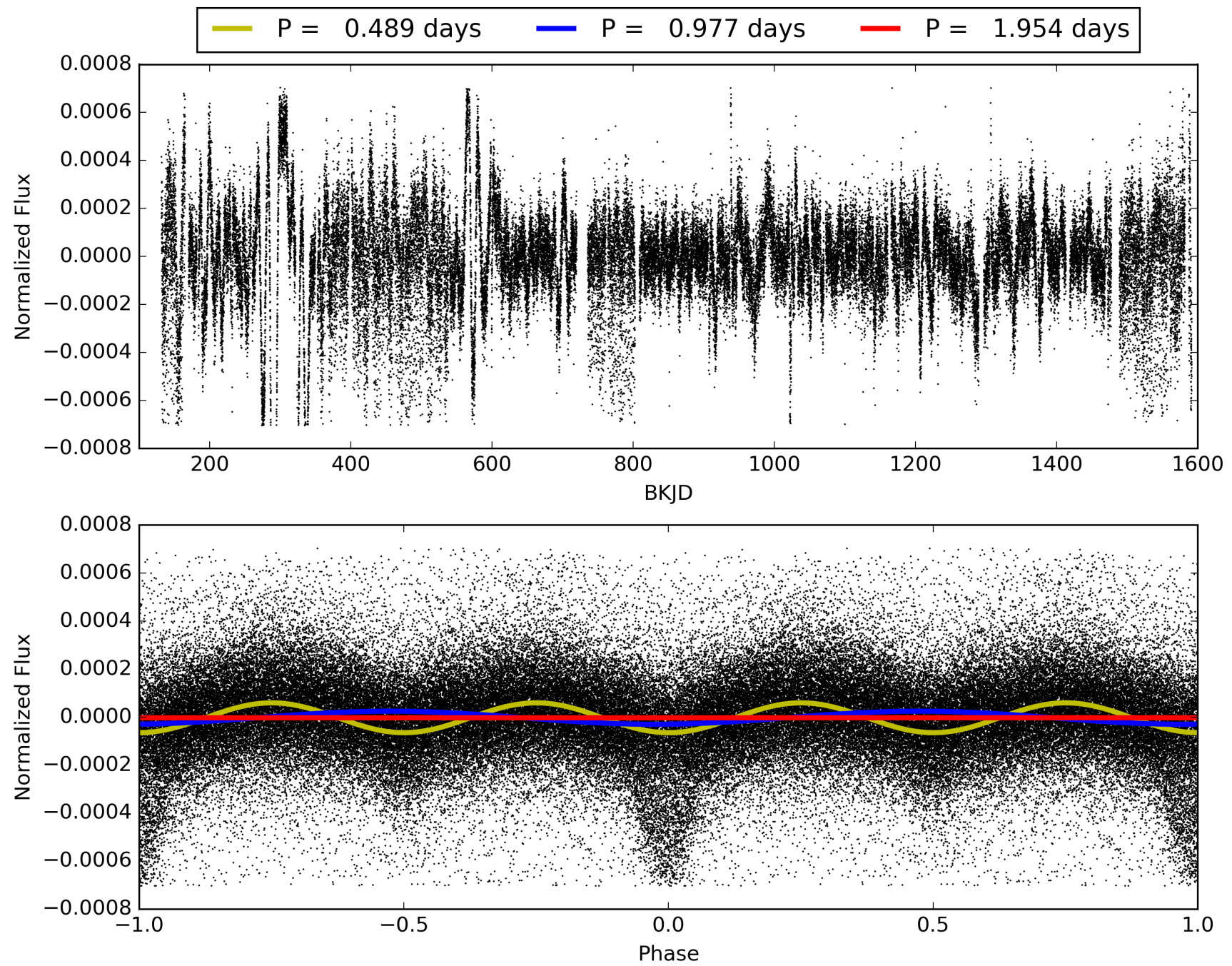
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:32:49 Z

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

TCE 006962901-01, PDC Light Curves

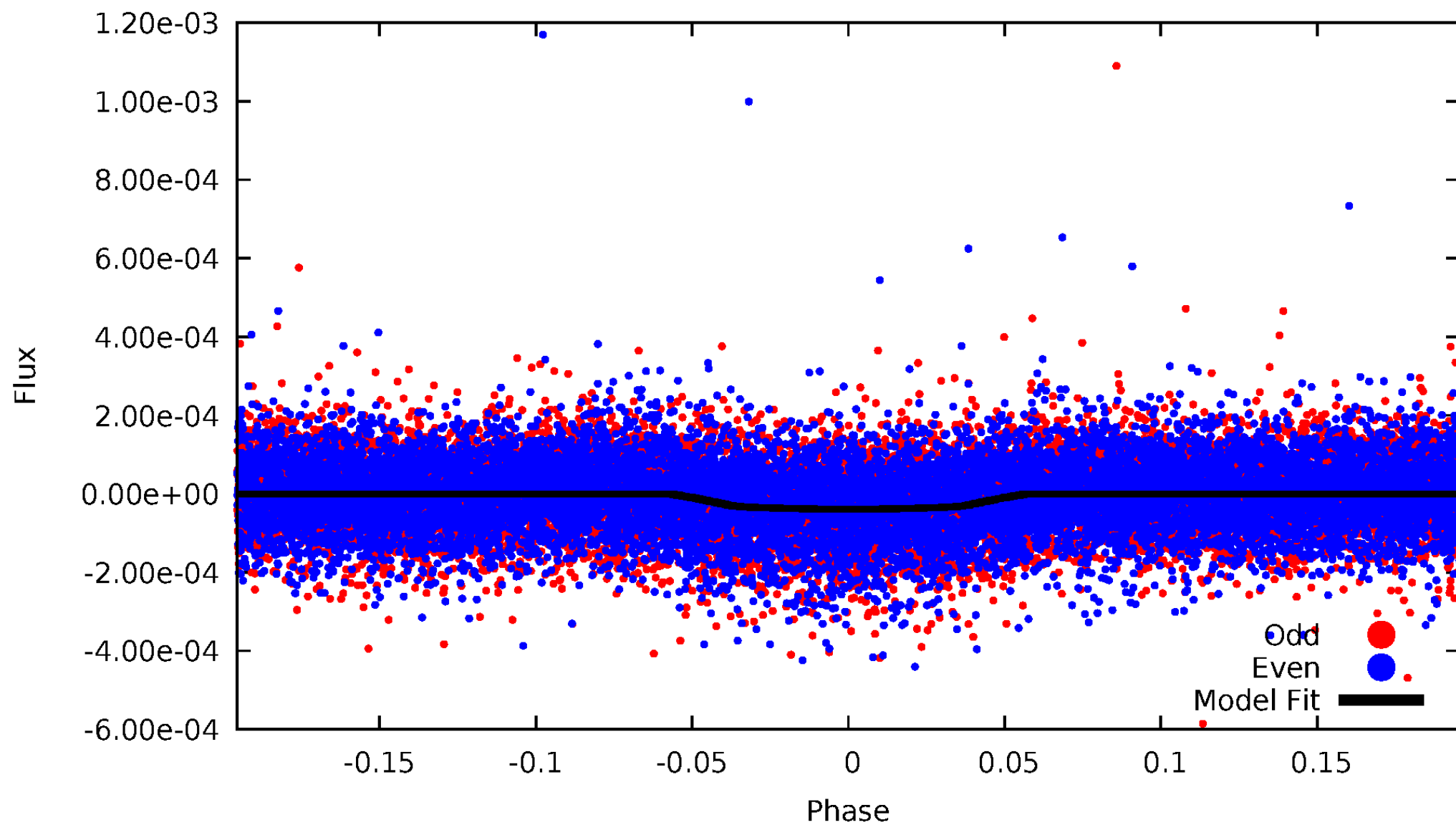


TCE 006962901-01



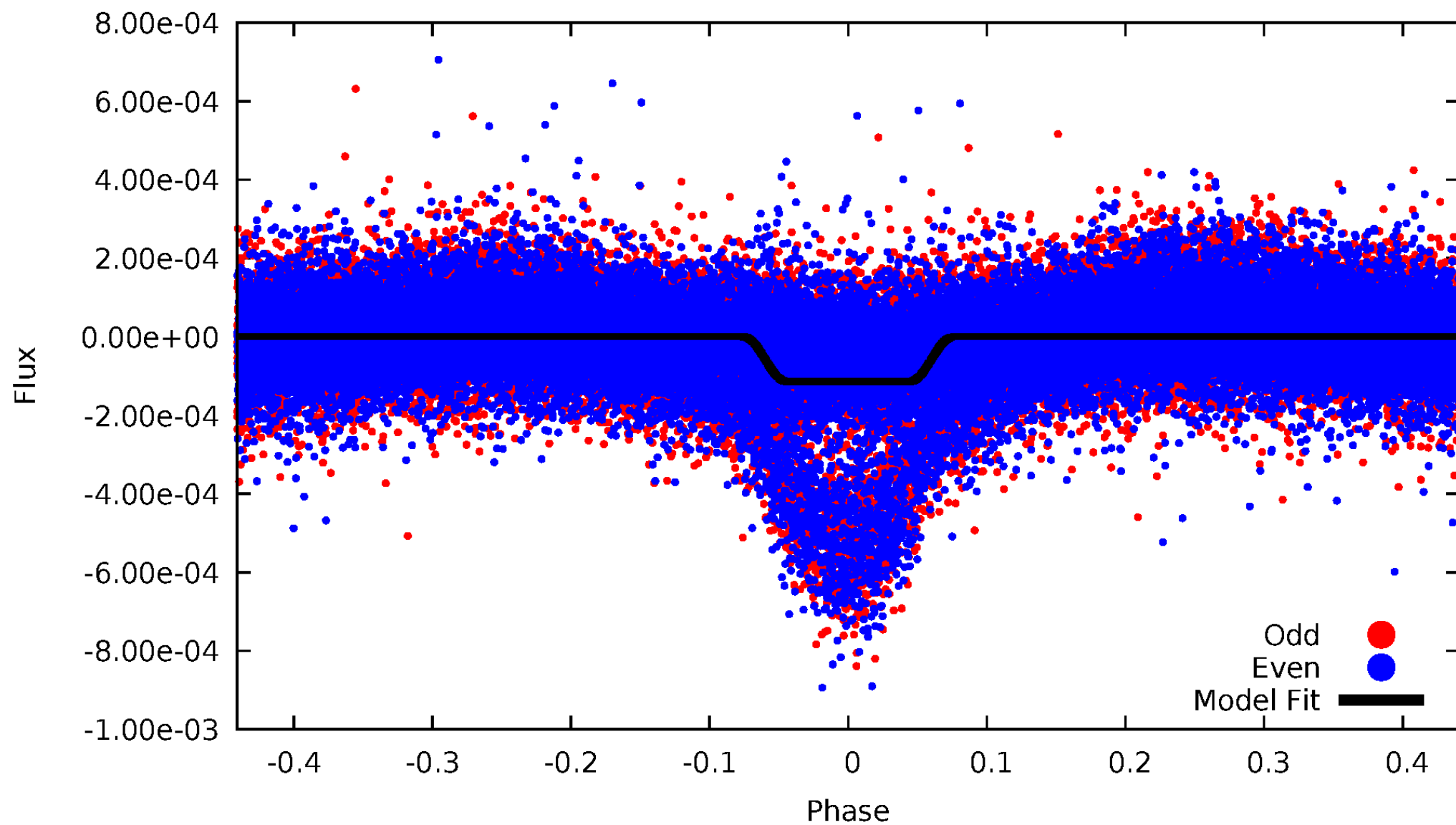
DV Odd/Even

TCE 006962901-01



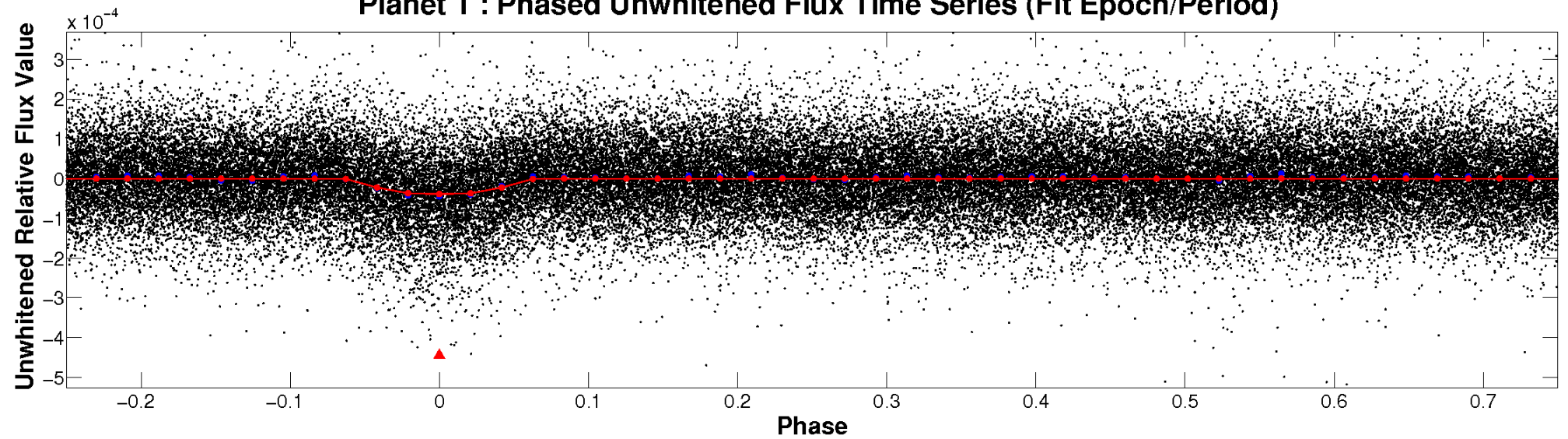
ALT Odd/Even

TCE 006962901-01

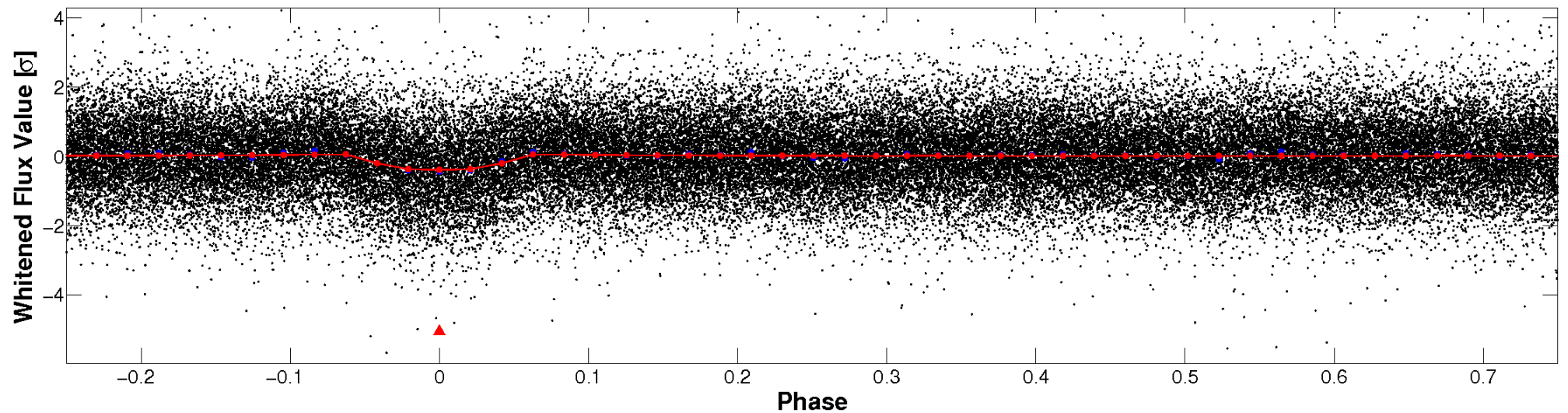


Non-Whitened Vs. Whitened Light Curve

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

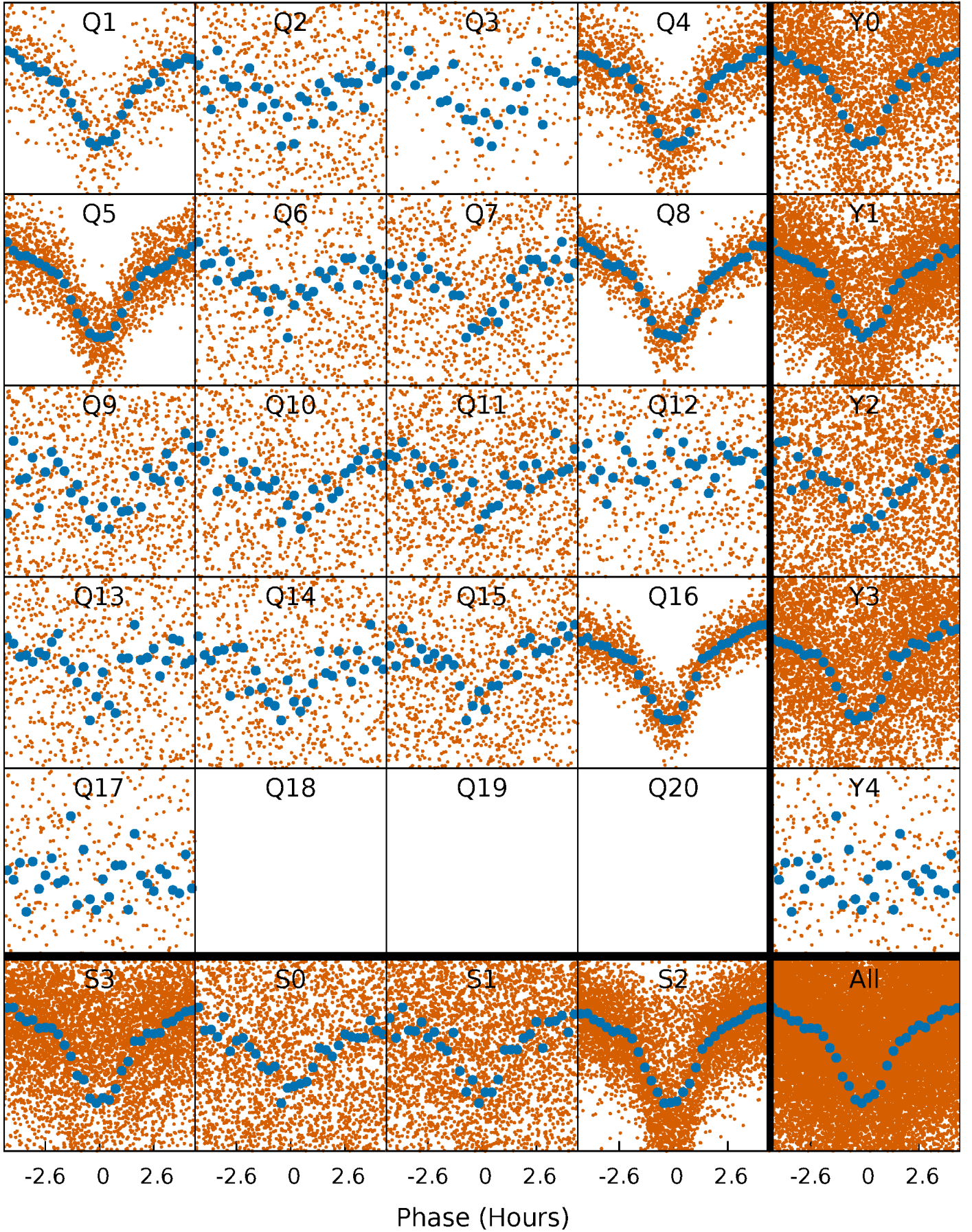


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



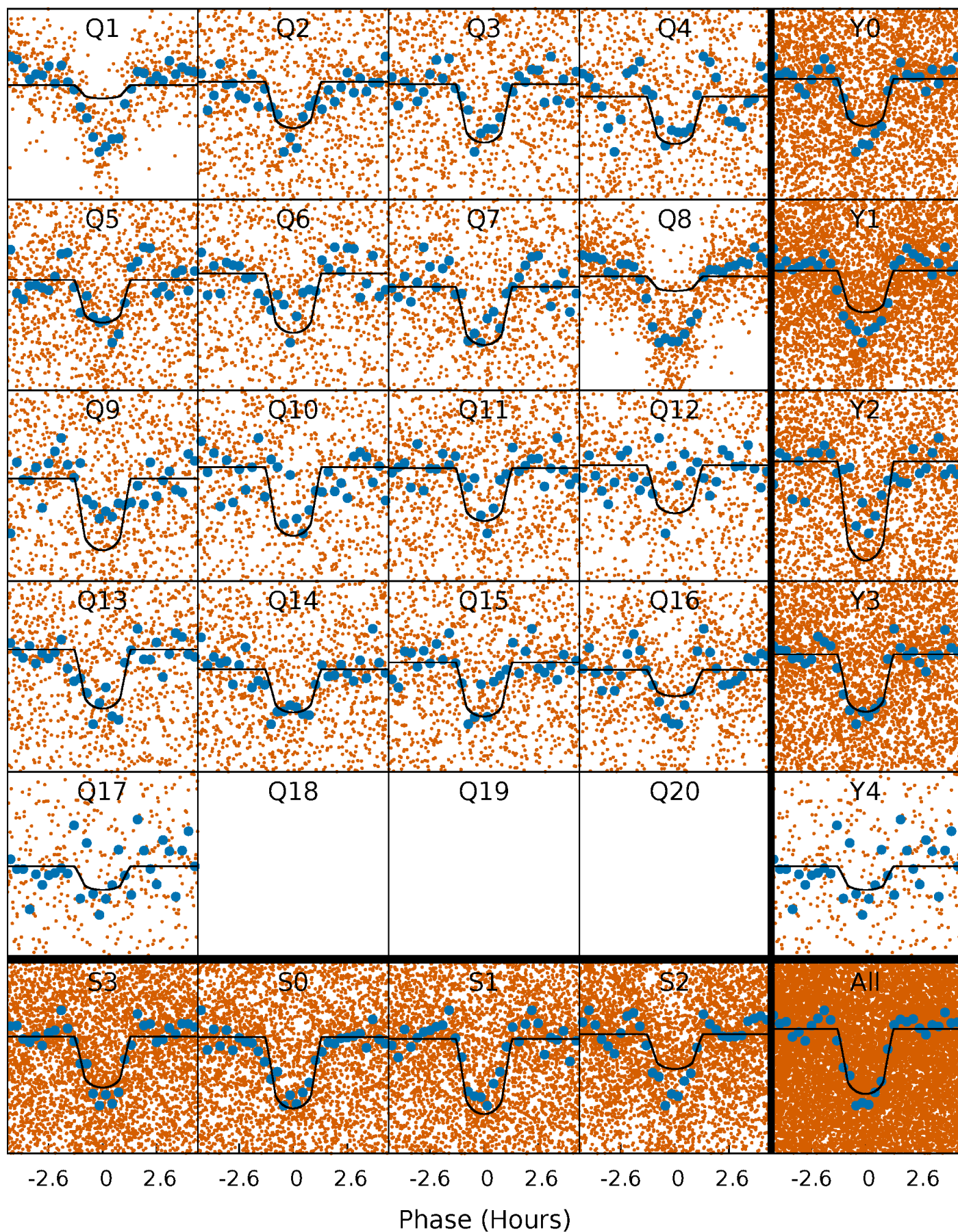
PDC Quarter-Phased Transit Curves

TCE 006962901-01 P= 0.977181 Days $T_0=132.233810$ (BKJD)



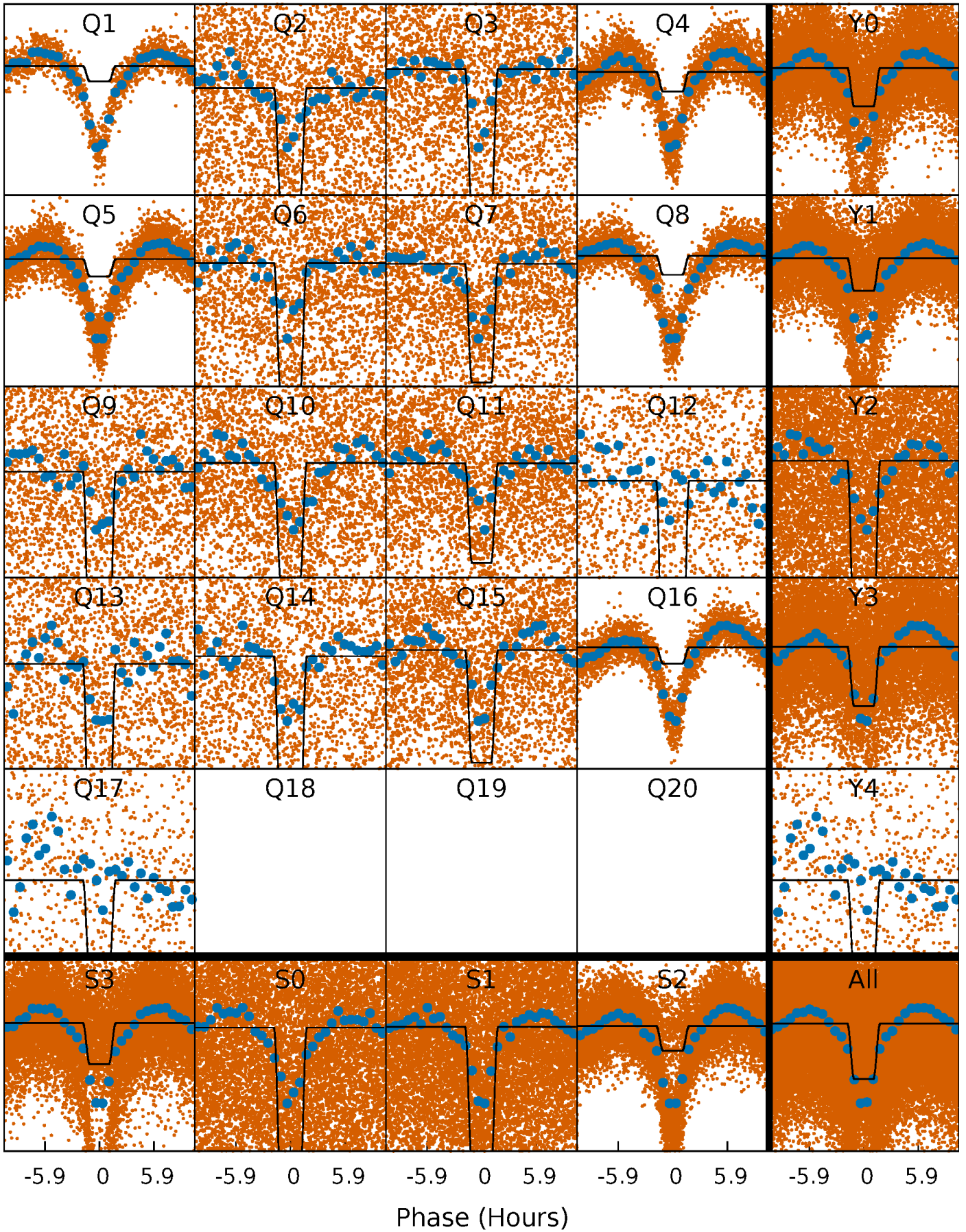
DV Quarter-Phased Transit Curves

TCE 006962901-01 P= 0.977181 Days $T_0=132.233810$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

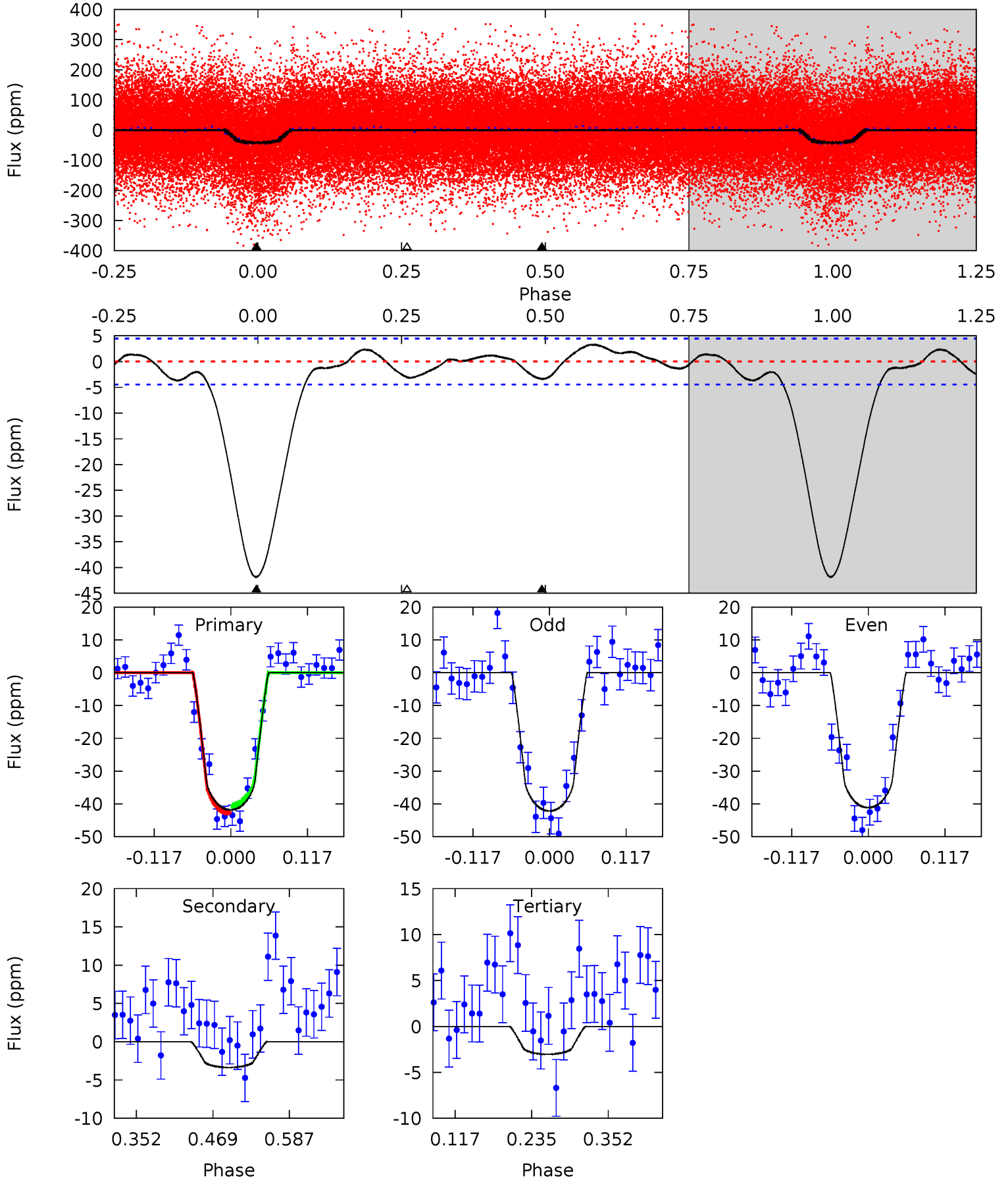
TCE 006962901-01 $P = 0.977170$ Days $T_0 = 132.237987$ (BKJD)



DV Model-Shift Uniqueness Test

006962901-01, P = 0.977181 Days, E = 131.256629 Days

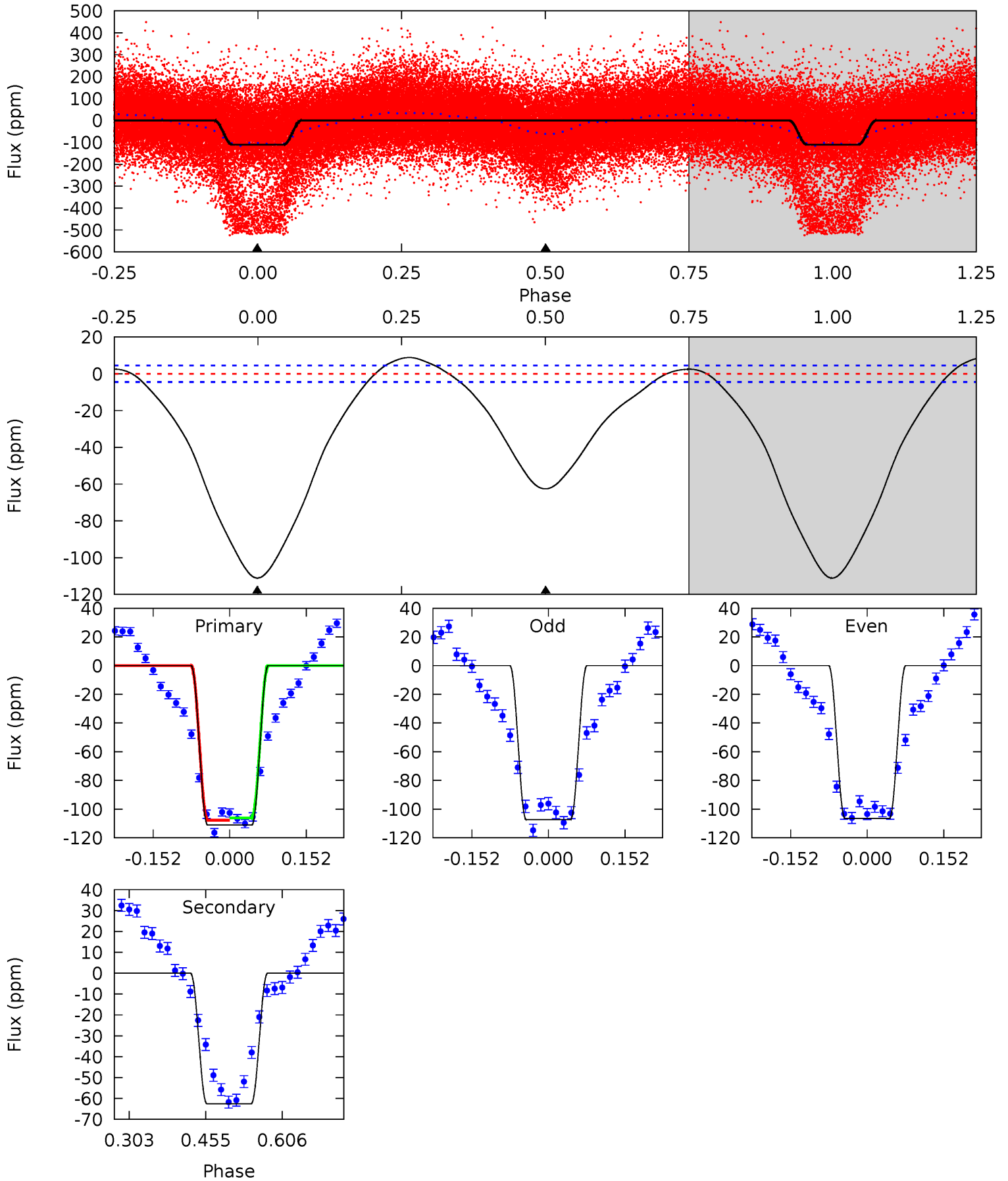
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
42.4	3.41	3.08	0	4.53	1.57	1.66	39.3	42.4	0.34	3.41	0.53	1.15	0.07	1.09



Alt Model-Shift Uniqueness Test

006962901-01, P = 0.977170 Days, E = 131.260817 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
111.1	62.6	0	0	4.48	1.43	7.74	111.1	111.1	62.6	62.6	0.43	2.35	0.07	0.79



Stellar Parameters For KIC 006962901

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5596^{+168}_{-201}	$3.480^{+0.336}_{-0.120}$	$-0.060^{+0.300}_{-0.400}$	$3.938^{+0.930}_{-1.861}$	$1.707^{+0.192}_{-0.575}$	$0.039^{+0.115}_{-0.016}$
	+3%/-4%	+10%/-3%	+500%/-667%	+24%/-47%	+11%/-34%	+293%/-40%
Source	PHO1	FLK73	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 006962901-01 / KOI 7799.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3 ± 1	$2.74^{+0.73}_{-0.77}$	4414^{+321}_{-456}	-3575^{+699}_{-312}	$0.127^{+0.109}_{-0.056}$
Alt.	-63 ± 1	$4.39^{+0.90}_{-1.06}$	4431^{+316}_{-439}	4523^{+399}_{-345}	$0.942^{+0.575}_{-0.274}$

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

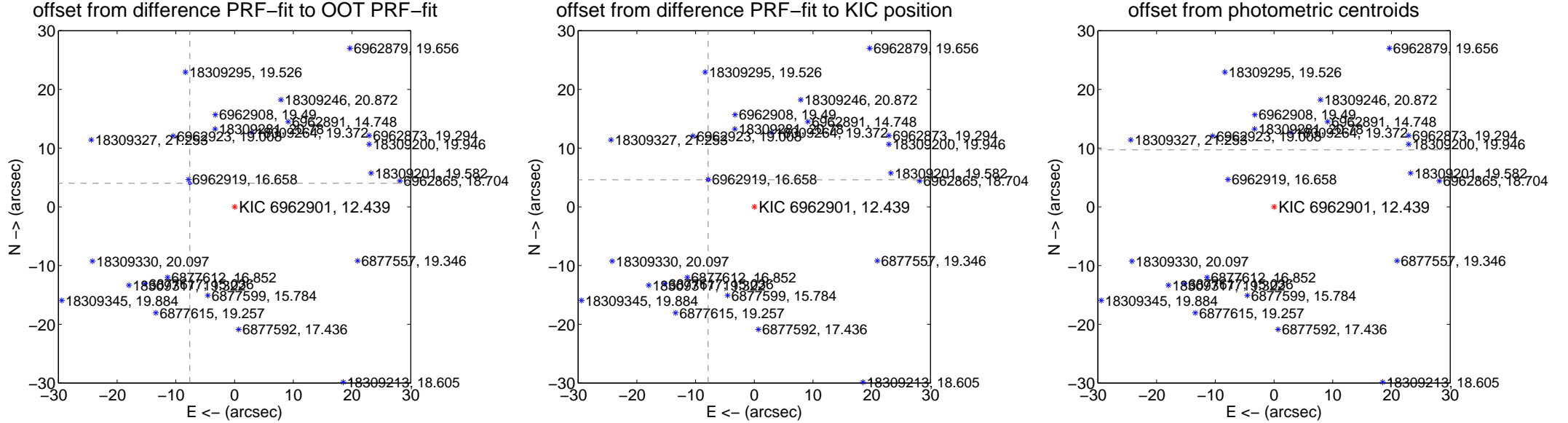
DV Centroid Data

Supplemental centroid analysis for 006962901-01. Kepler magnitude: 12.44. Transit SNR 26.84

There are 13 quarters with good PRF difference image offsets

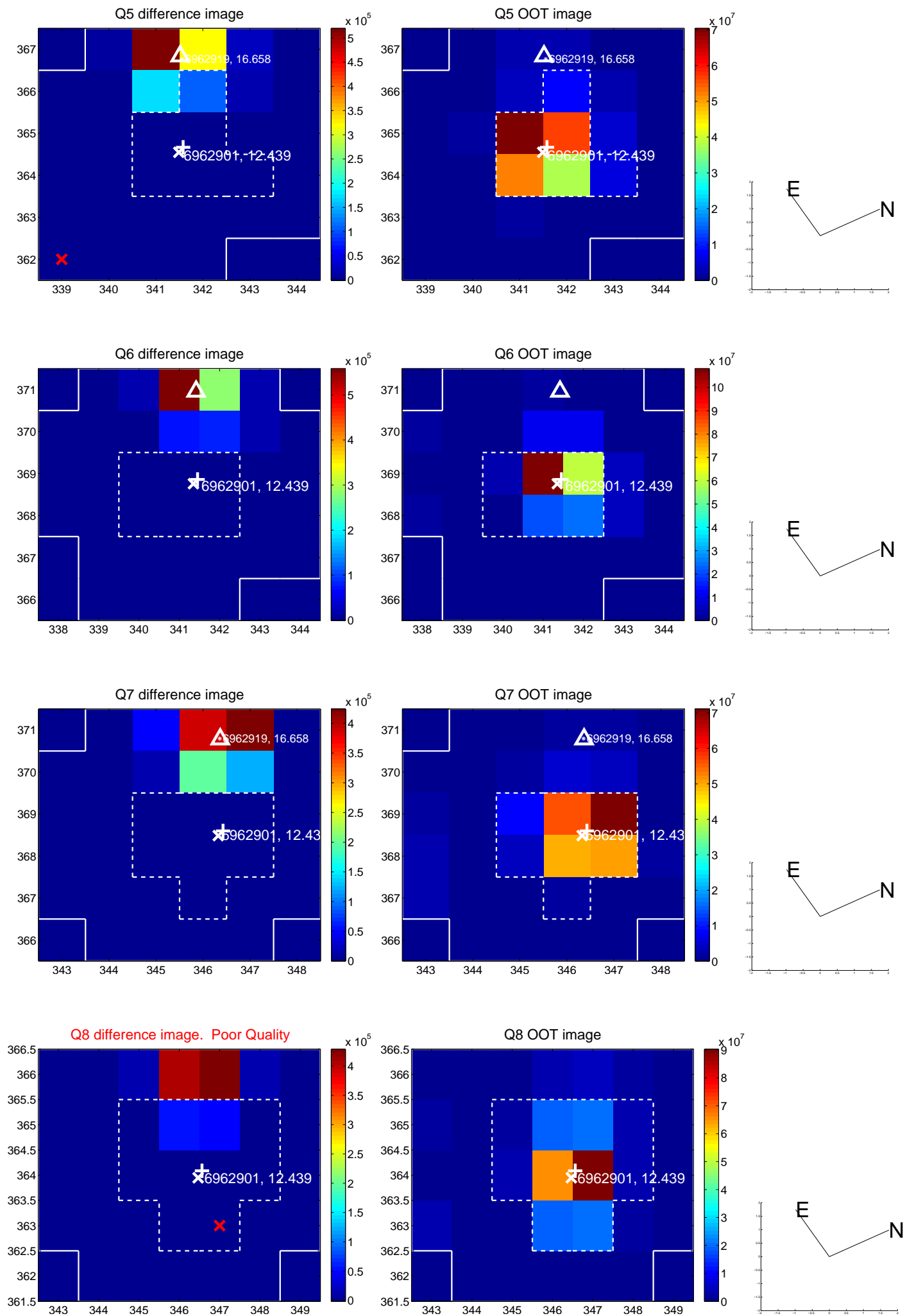
The direct PRF centroid is offset from the target star catalog position by about 0.75 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.611 \pm 0.080	108.21	7.619 \pm 0.079	4.013 \pm 0.069
PRF-fit source offset from KIC position	9.115 \pm 0.079	114.81	7.865 \pm 0.079	4.608 \pm 0.068
photometric centroid source offset	54.96 \pm 0.46	120.47	54.10 \pm 0.46	9.71 \pm 0.39

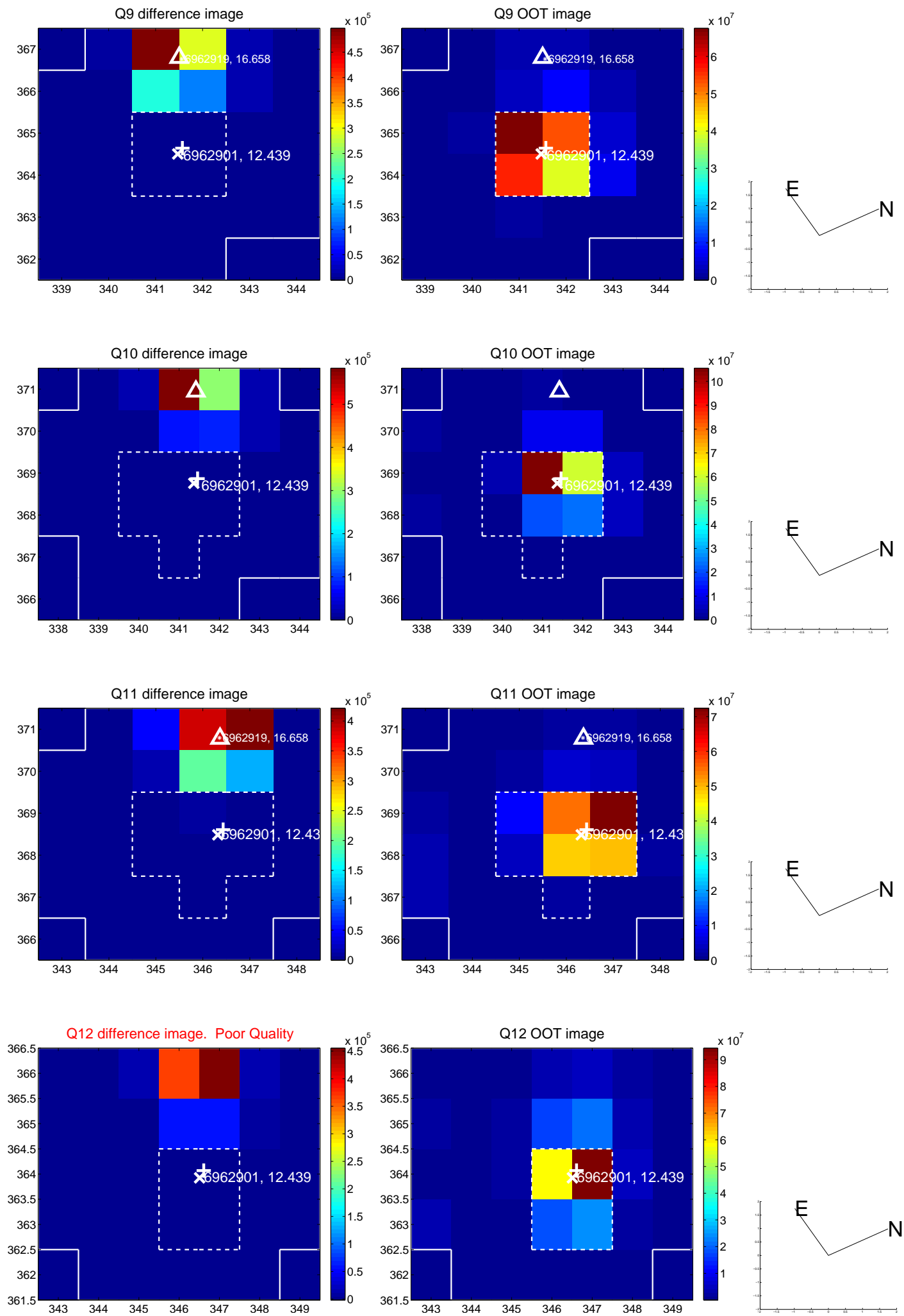


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

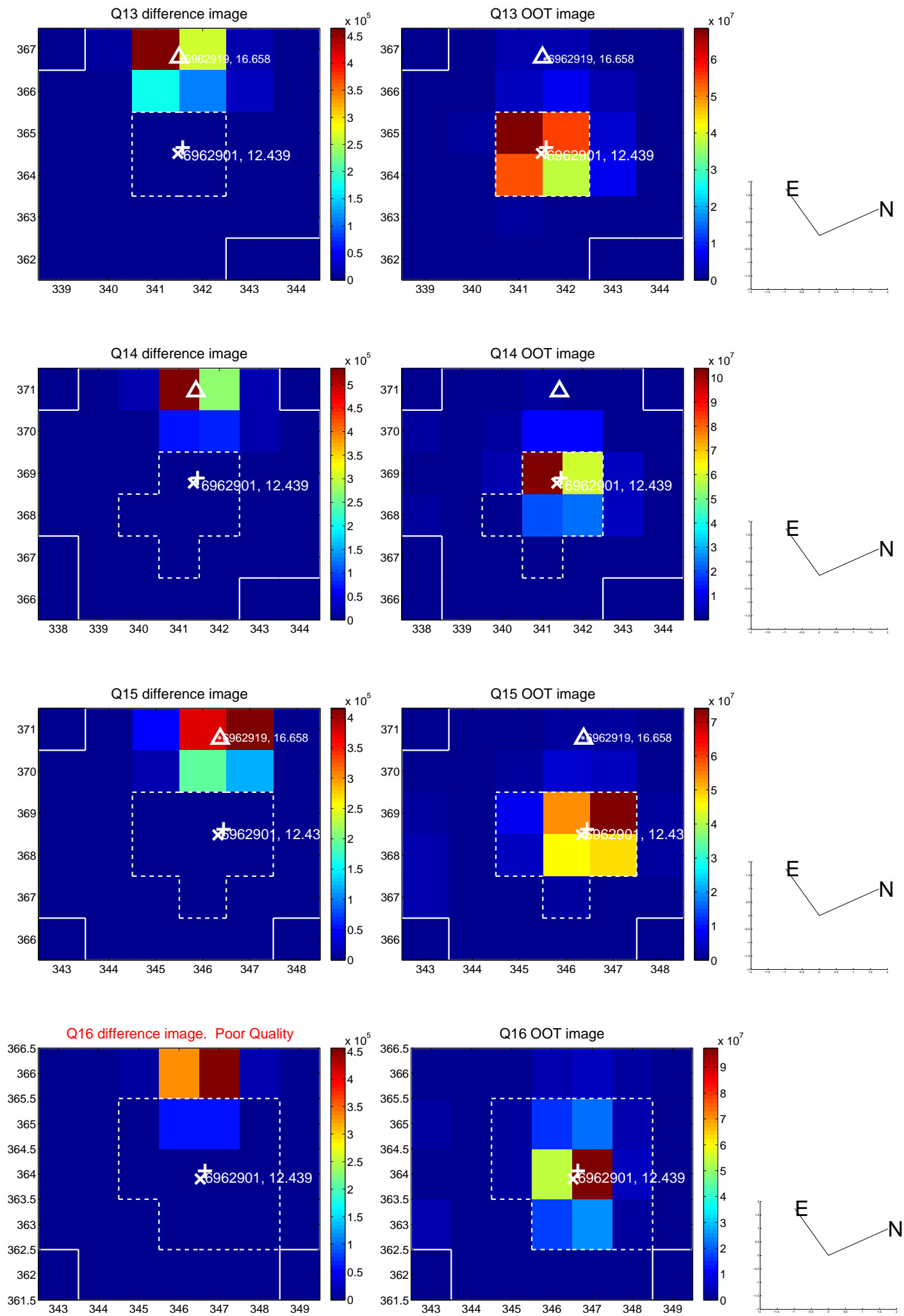
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



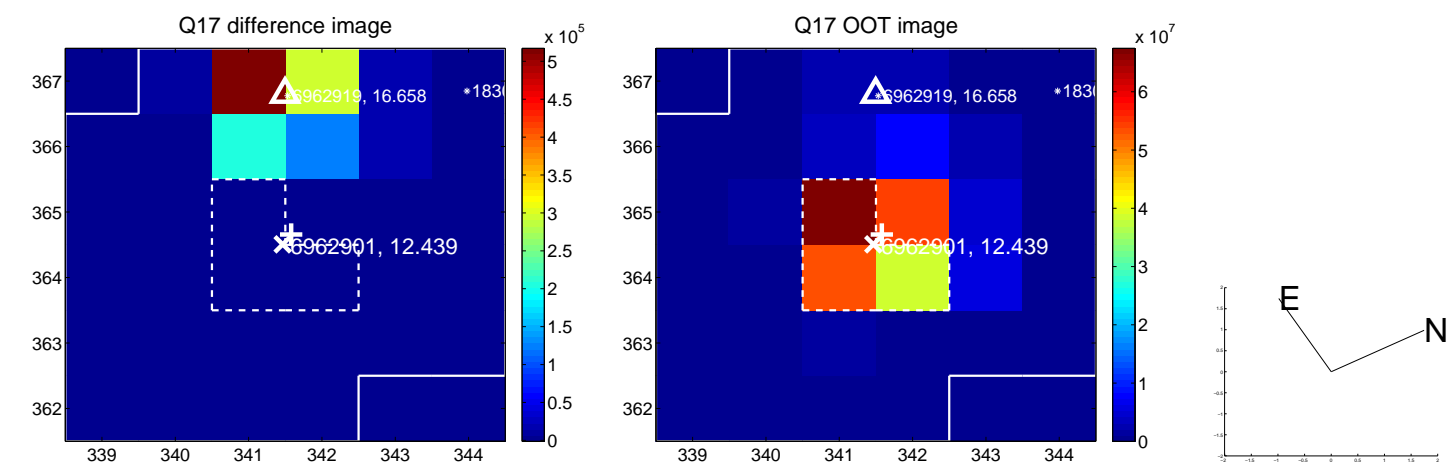
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



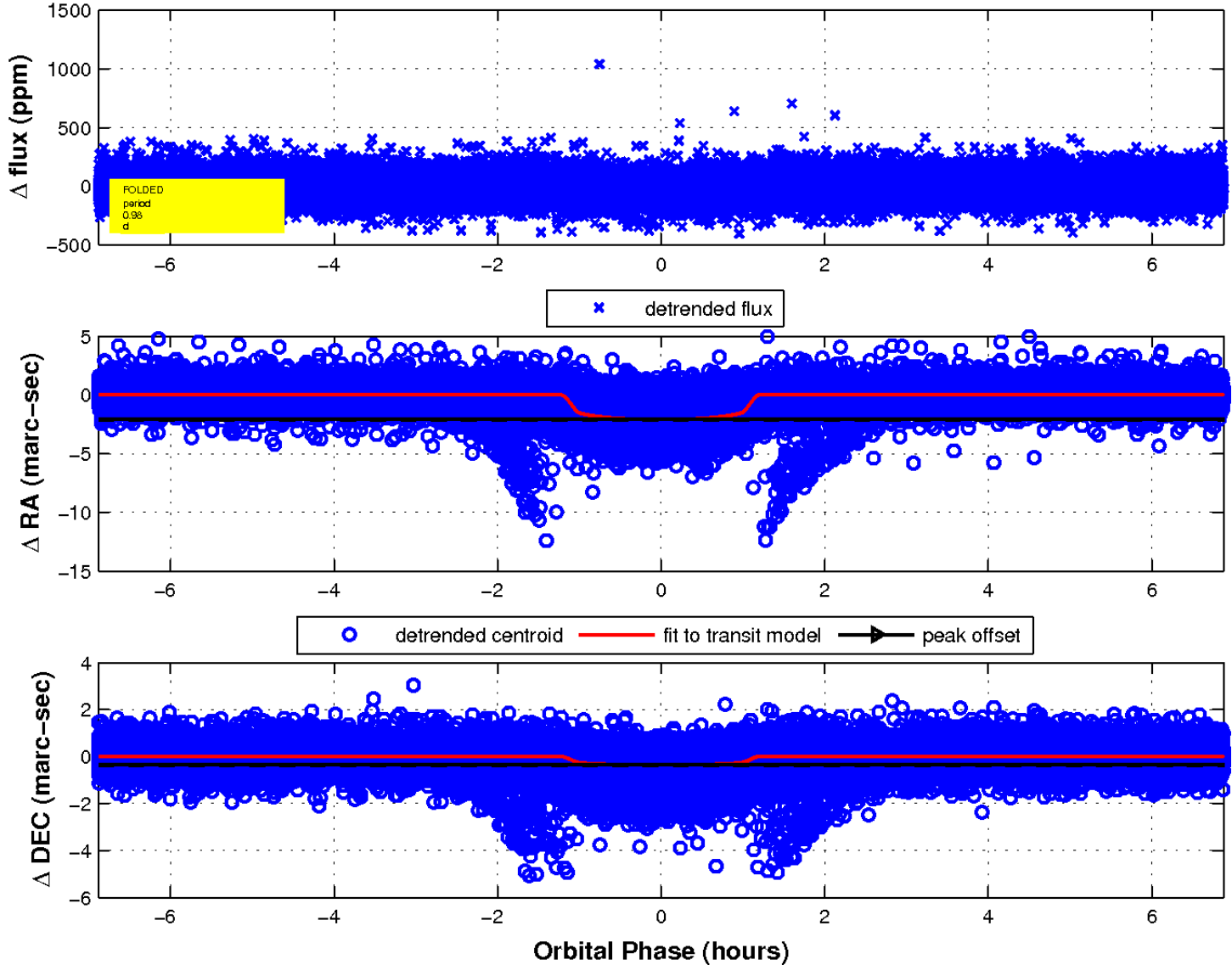
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

