

KIC 006287169

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})
006287169-01	OBS	No	1.187720	131.678994	33.2	10.098	7.9	9.2	0.93	5712	0.62	1864.15

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006287169-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—CENT_RESOLVED_OFFSET

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

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

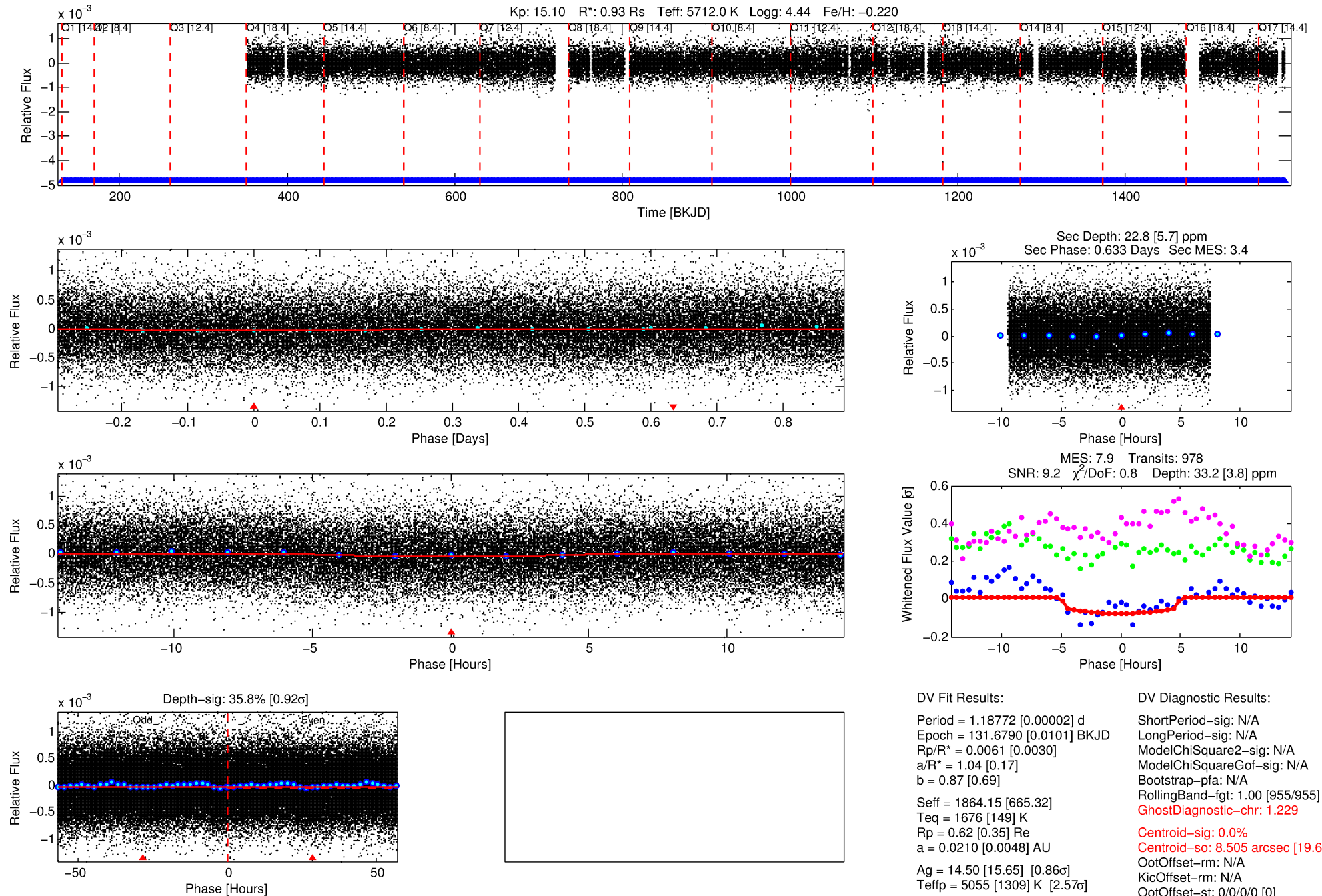
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006287169-01

No Significant Match Found

DV One-Page Summary

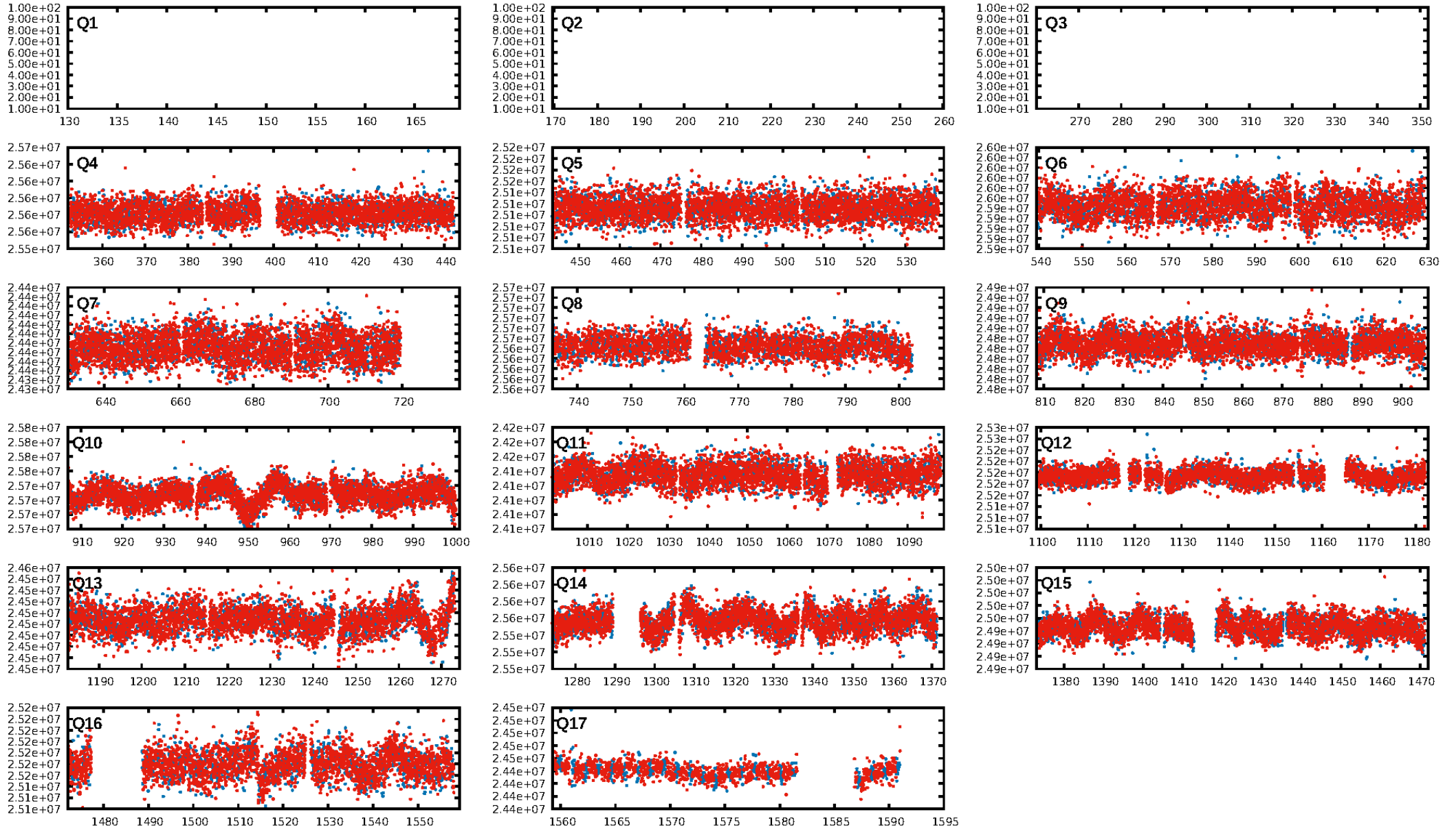
KIC: 6287169 Candidate: 1 of 1 Period: 1.188 d



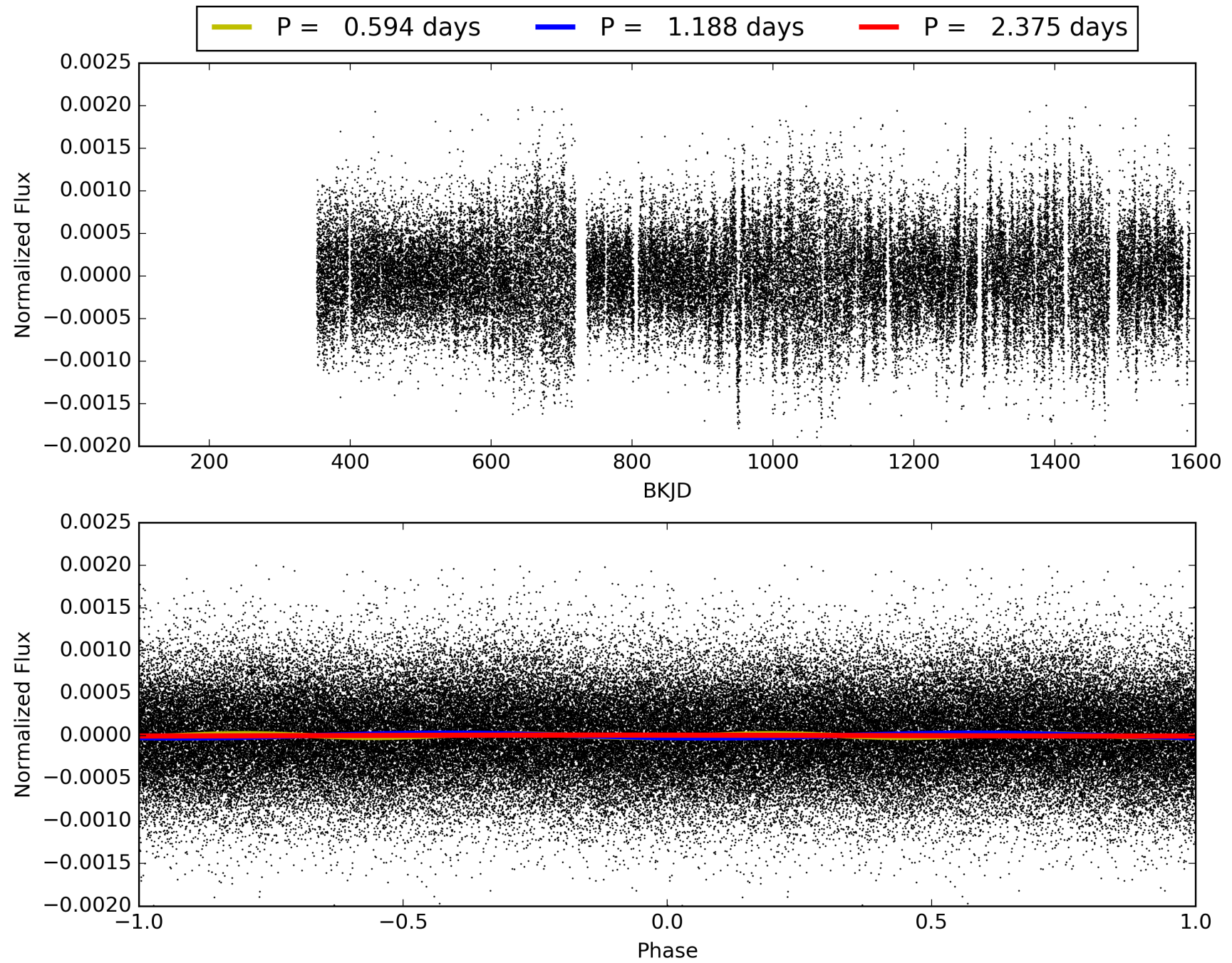
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 16:20:02 Z

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

TCE 006287169-01, PDC Light Curves

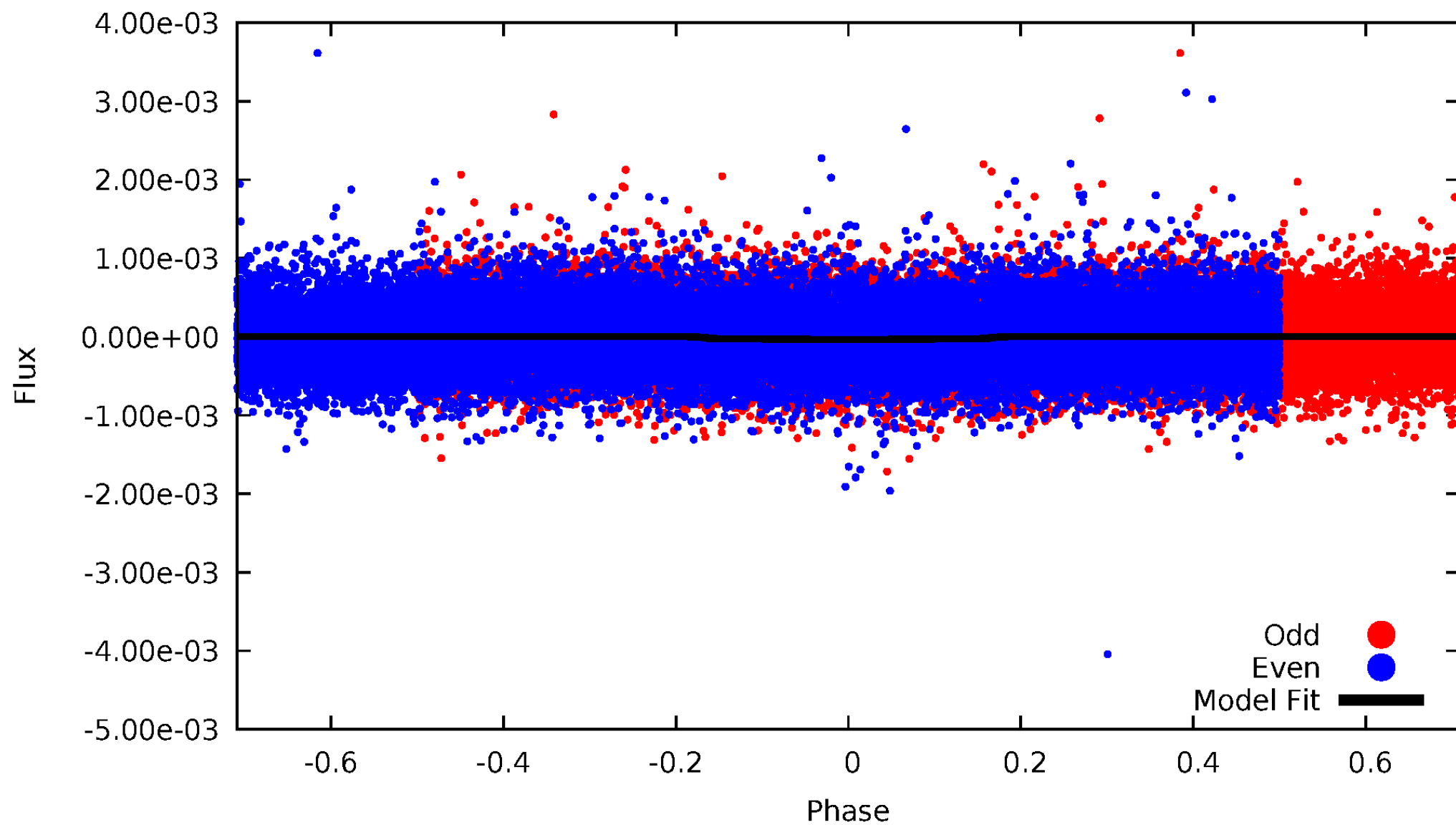


TCE 006287169-01



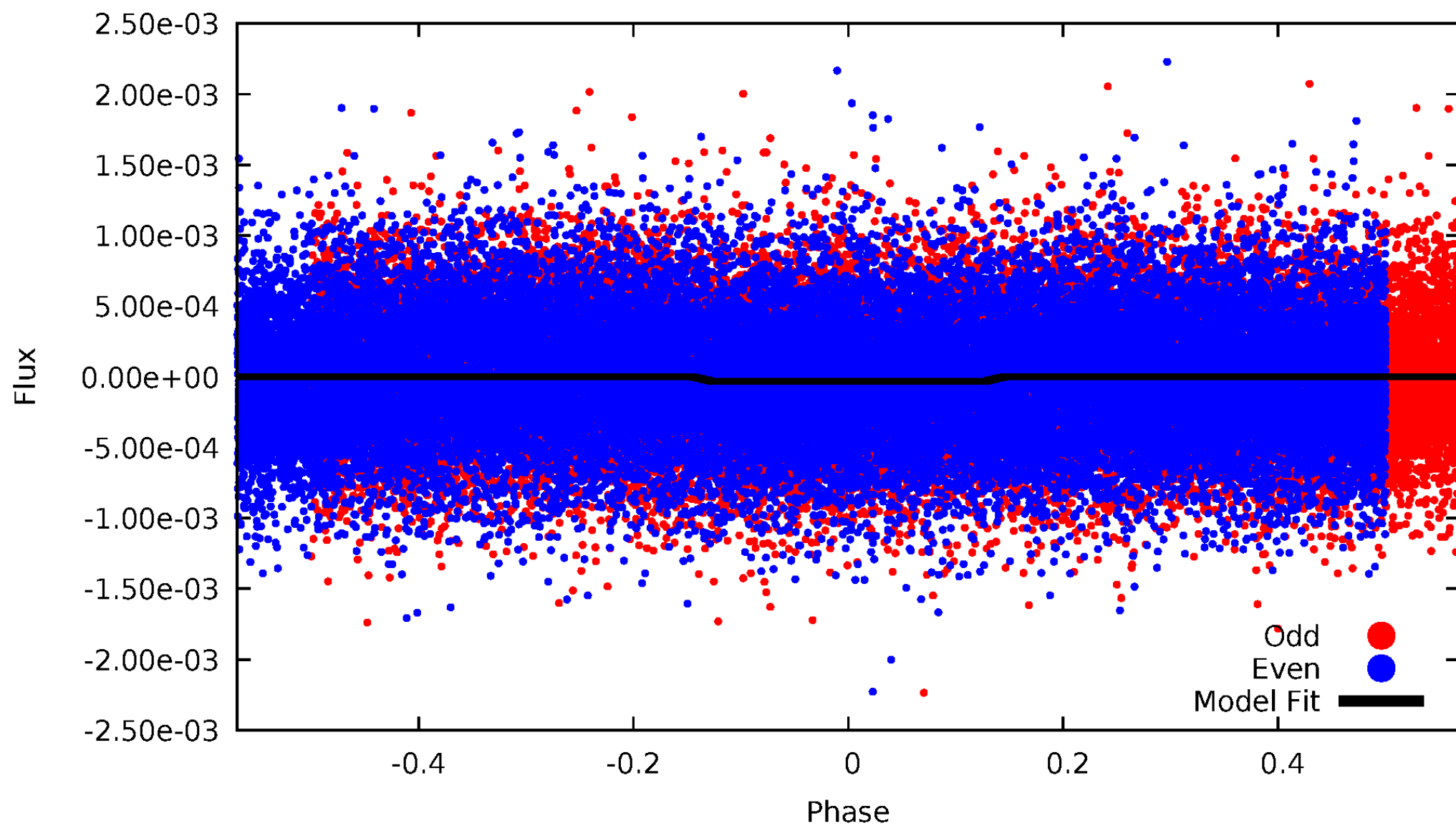
DV Odd/Even

TCE 006287169-01



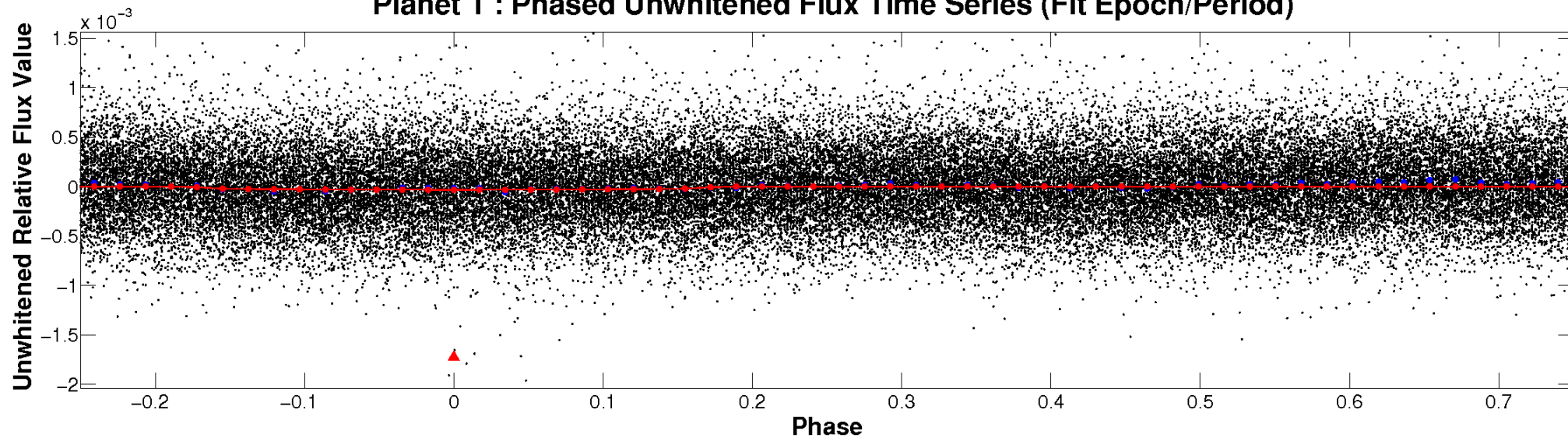
ALT Odd/Even

TCE 006287169-01

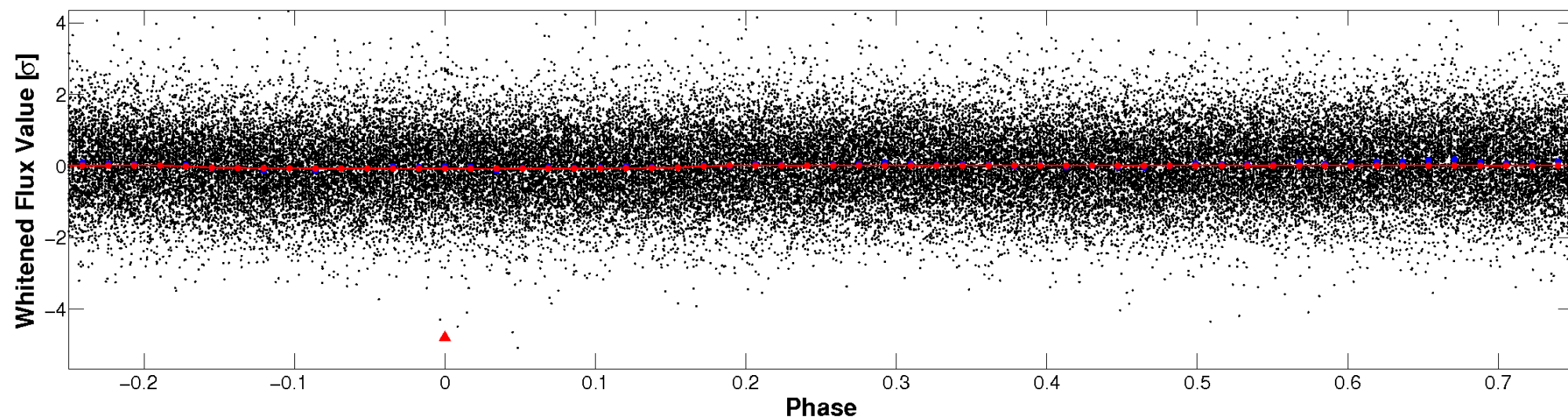


Non-Whitened Vs. Whitened Light Curve

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

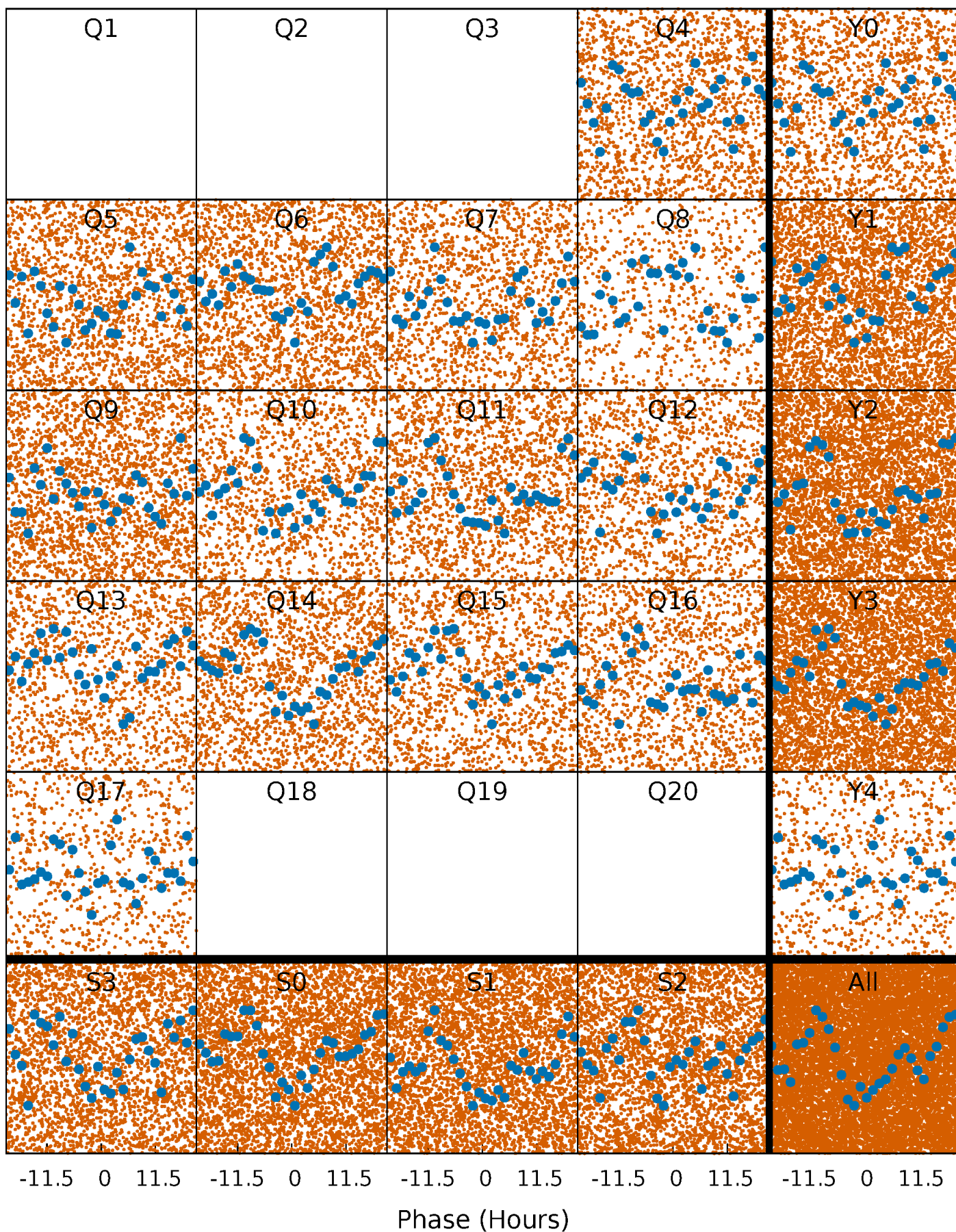


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



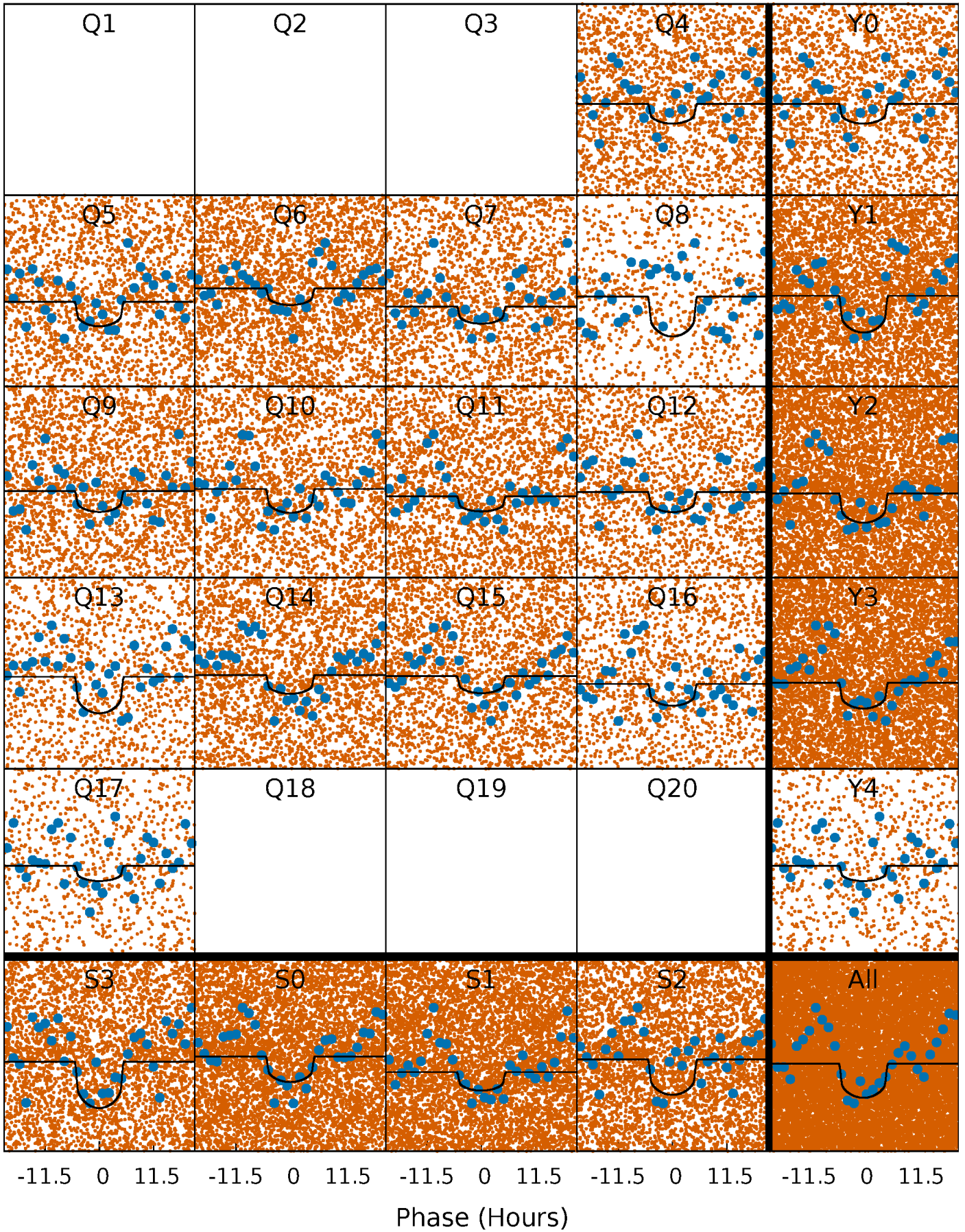
PDC Quarter-Phased Transit Curves

TCE 006287169-01 P= 1.187720 Days $T_0=131.678994$ (BKJD)



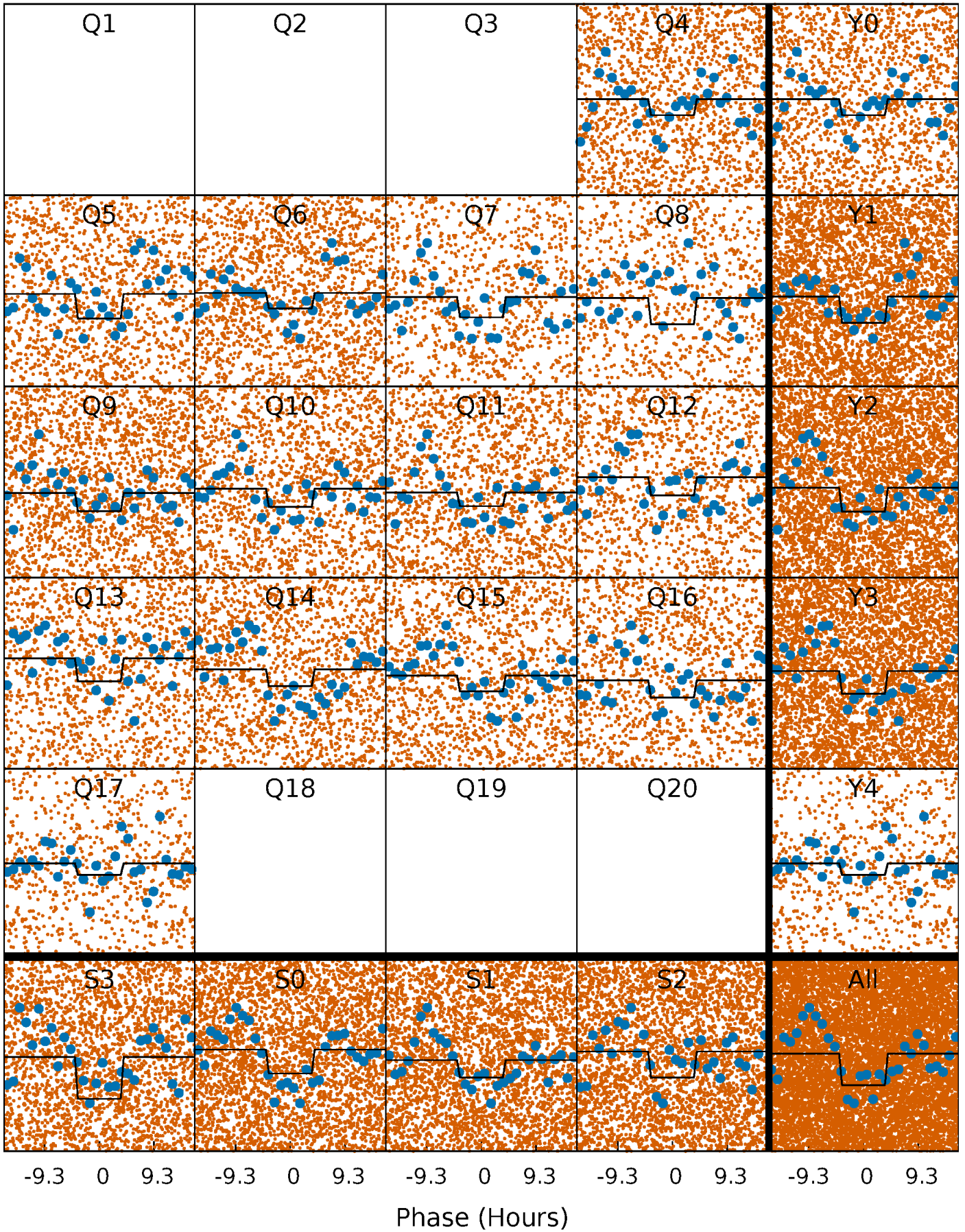
DV Quarter-Phased Transit Curves

TCE 006287169-01 P= 1.187720 Days $T_0=131.678994$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

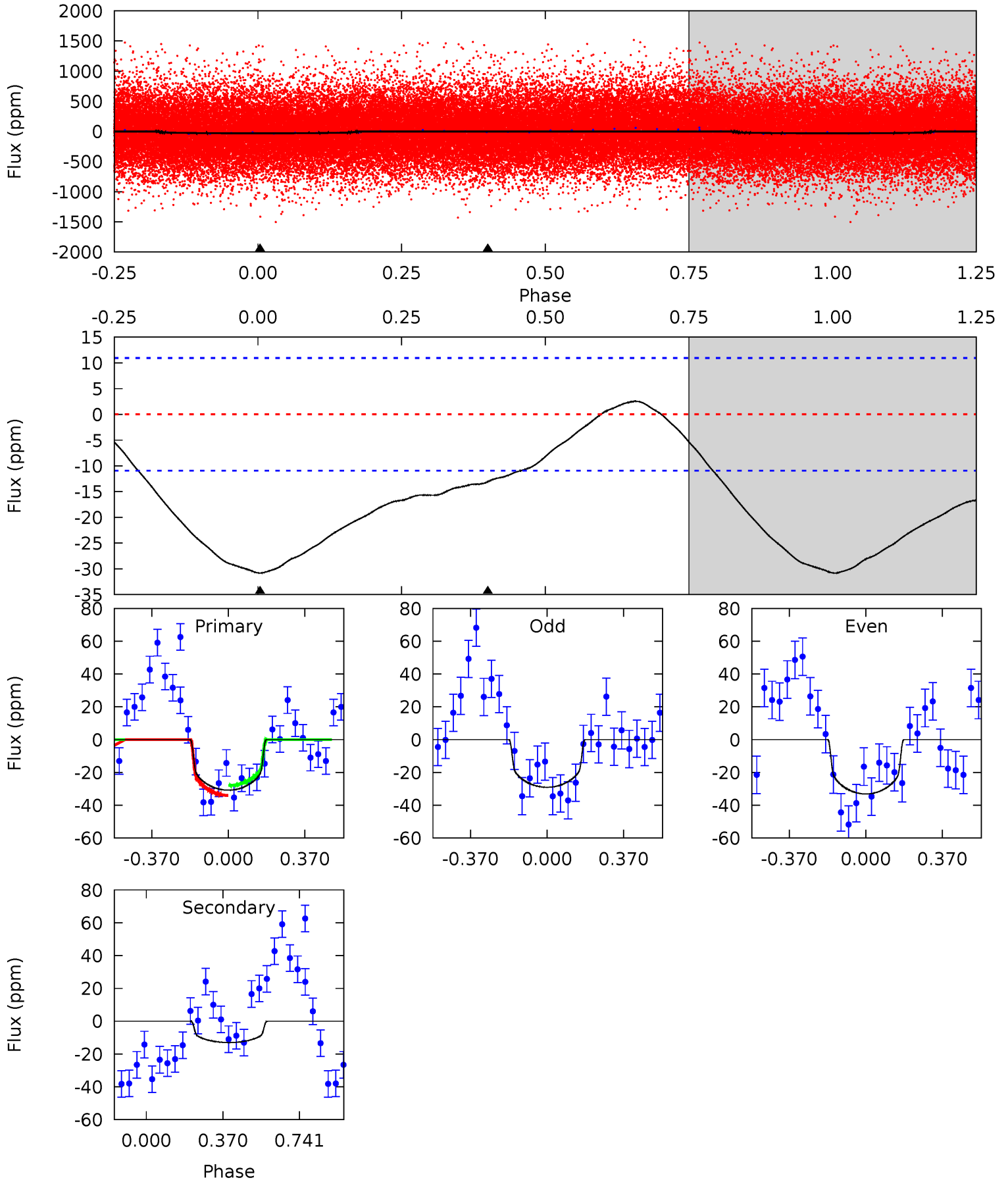
TCE 006287169-01 P= 1.187702 Days $T_0=131.662675$ (BKJD)



DV Model-Shift Uniqueness Test

006287169-01, P = 1.187720 Days, E = 131.678994 Days

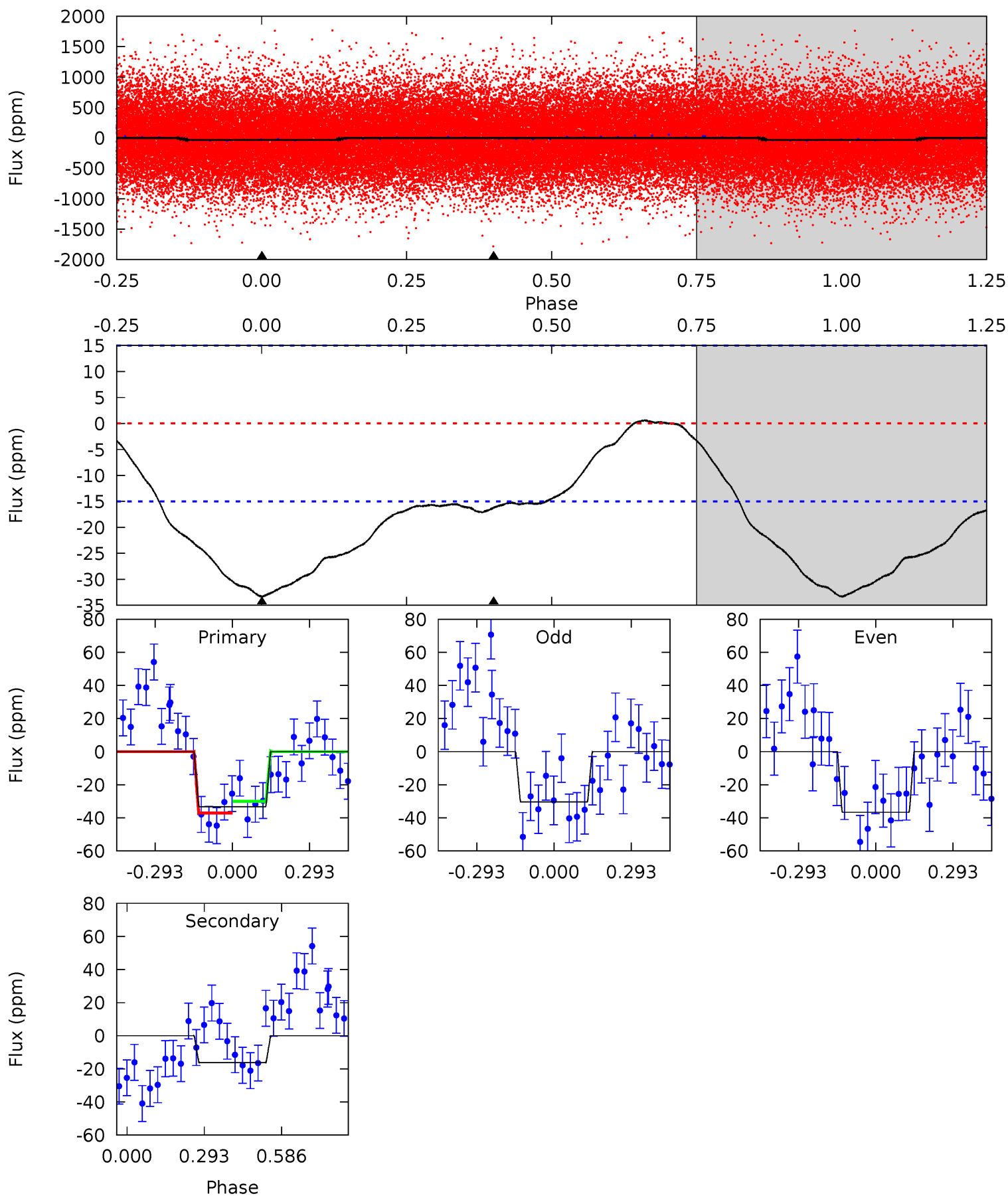
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.1	5.12	0	0	4.28	0.90	1.00	12.1	12.1	5.12	5.12	0.80	0.81	0.08	1.19



Alt Model-Shift Uniqueness Test

006287169-01, P = 1.187702 Days, E = 131.662675 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.63	4.69	0	0	4.33	1.05	0.32	9.63	9.63	4.69	4.69	0.90	1.03	0.02	1.04



Stellar Parameters For KIC 006287169

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5712^{+189}_{-189}	$4.444^{+0.098}_{-0.182}$	$-0.220^{+0.300}_{-0.300}$	$0.927^{+0.248}_{-0.134}$	$0.873^{+0.120}_{-0.080}$	$1.541^{+0.781}_{-0.746}$
	+3%/-3%	+2%/-4%	+136%/-136%	+27%/-14%	+14%/-9%	+51%/-48%
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 006287169-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-13 ± 3	$0.66^{+0.33}_{-0.29}$	2366^{+174}_{-134}	4459^{+1363}_{-646}	$7.086^{+16.810}_{-3.967}$
Alt.	-16 ± 3	$0.59^{+0.35}_{-0.30}$	2375^{+168}_{-139}	4942^{+1832}_{-876}	11^{+33}_{-7}

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

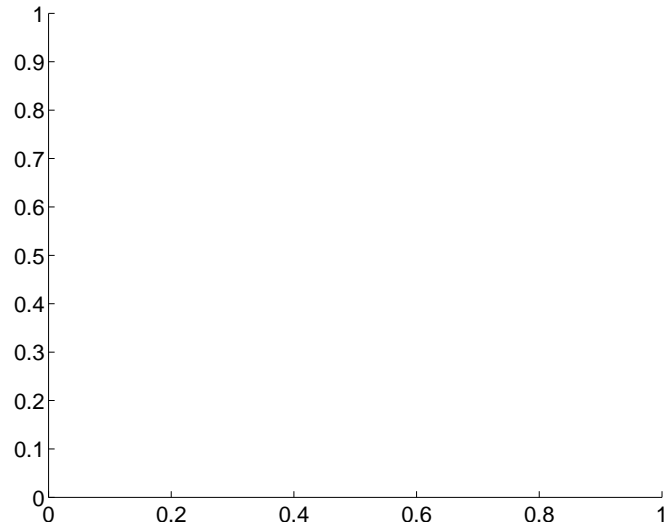
Supplemental centroid analysis for 006287169-01. Kepler magnitude: 15.10. Transit SNR 9.17

There are 0 quarters with good PRF difference image offsets

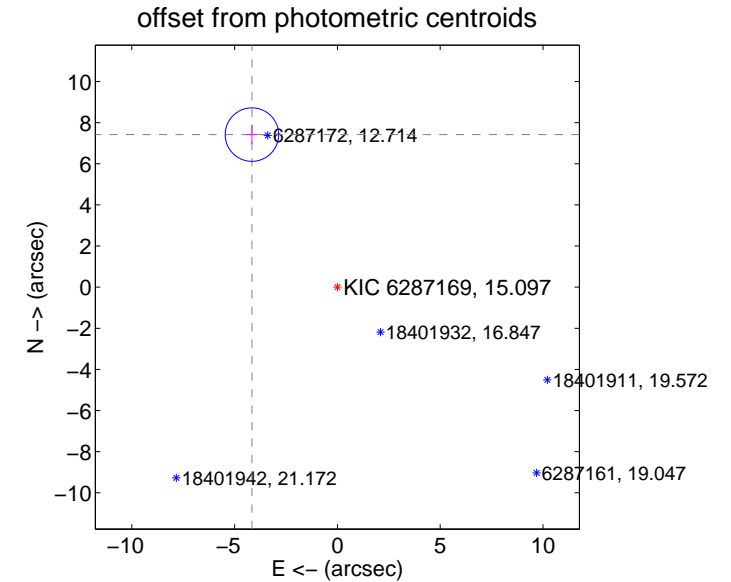
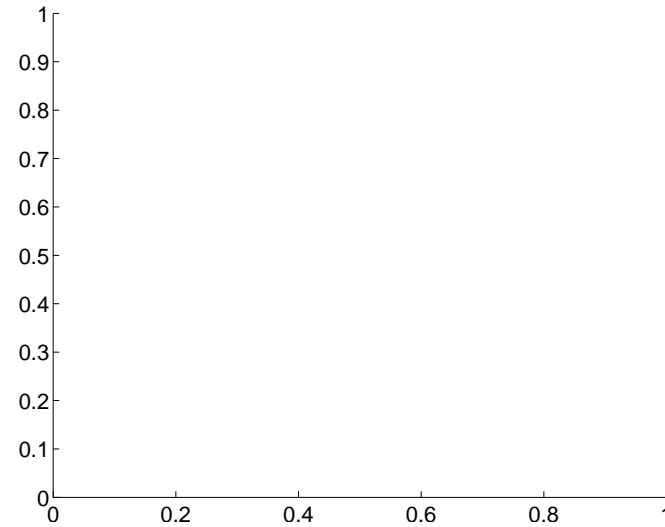
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	8.51 ± 0.43	19.62	4.16 ± 0.28	7.42 ± 0.47

There is no PRF-fit offset from OOT-fit

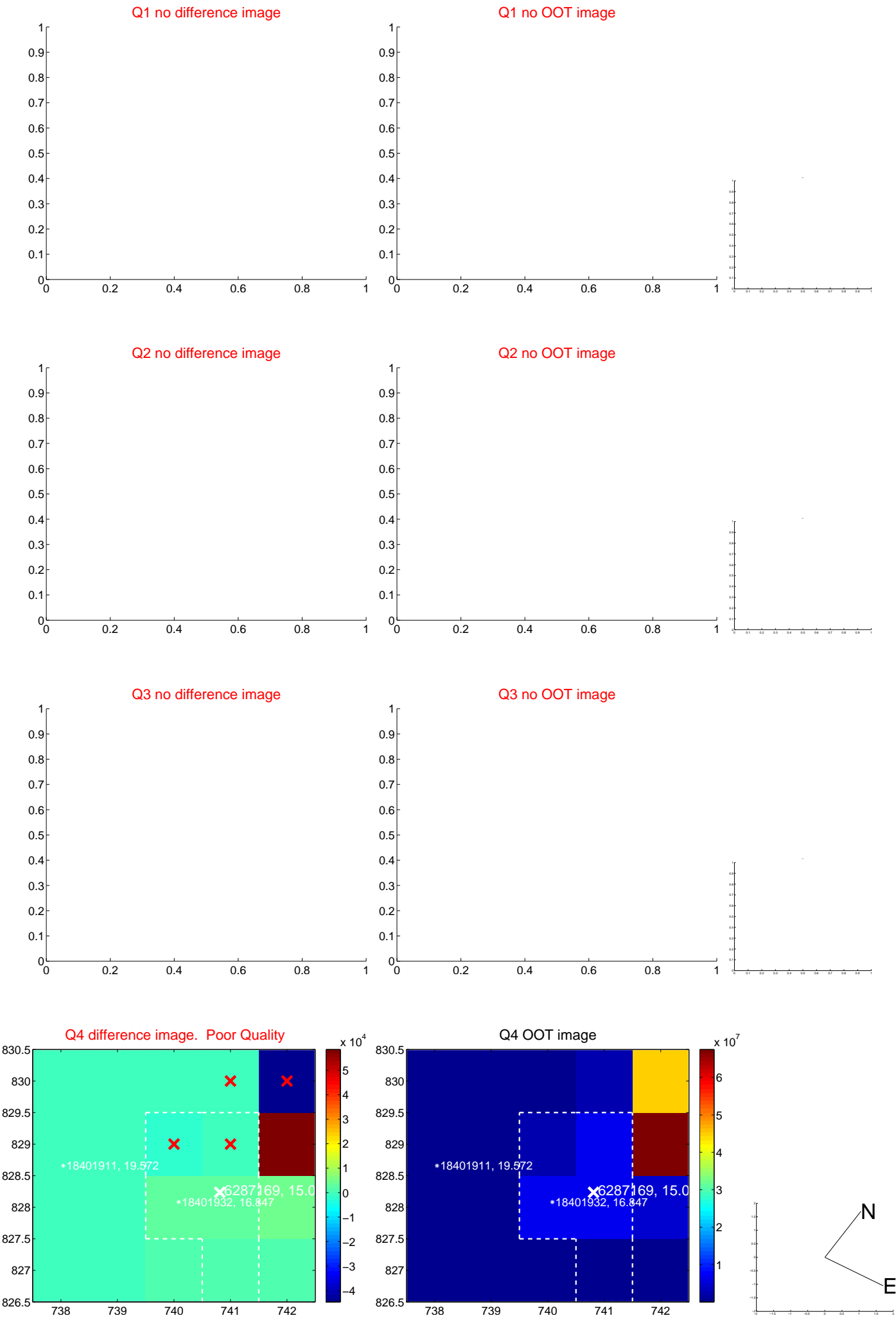


There is no PRF-fit offset from KIC

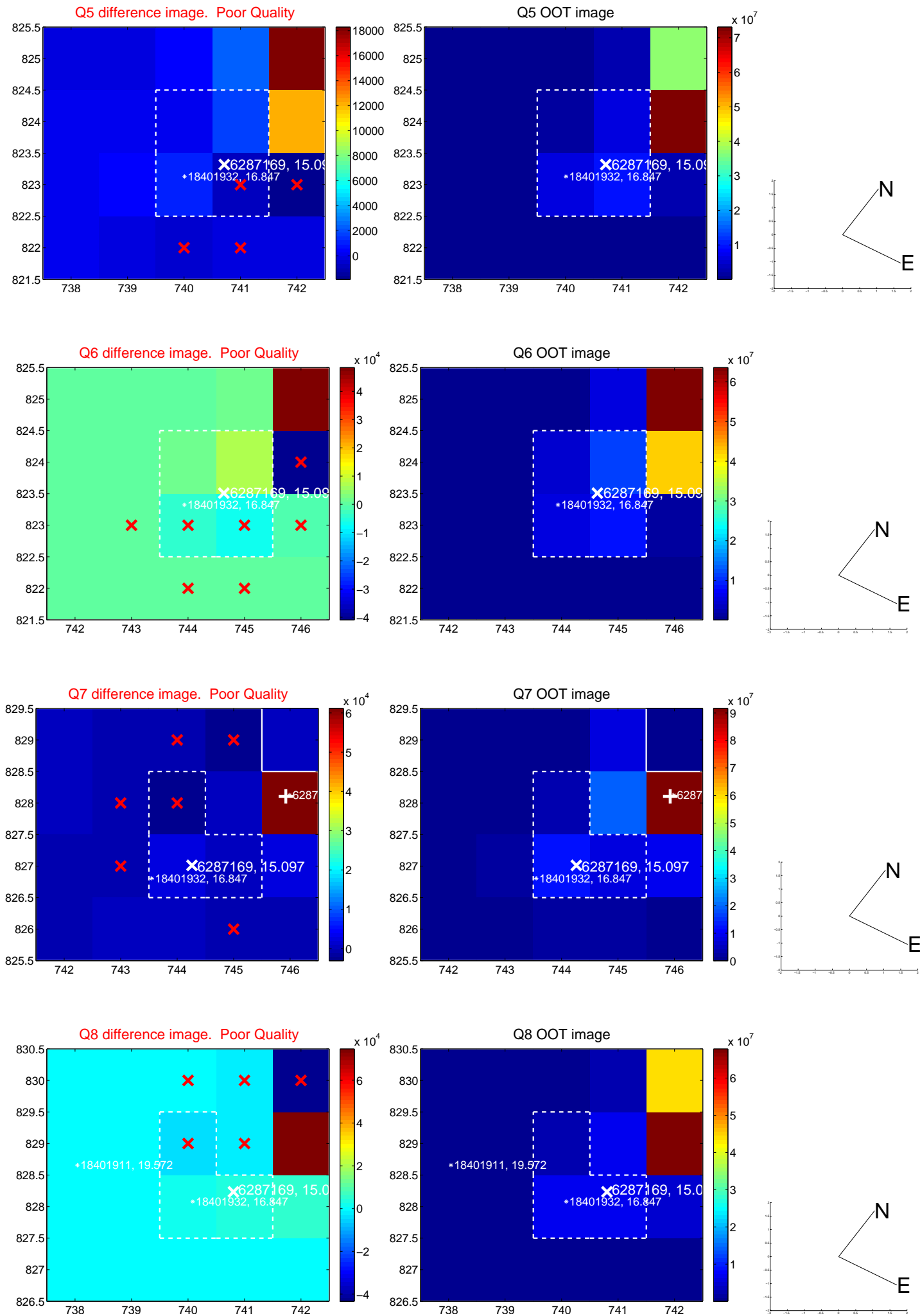


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

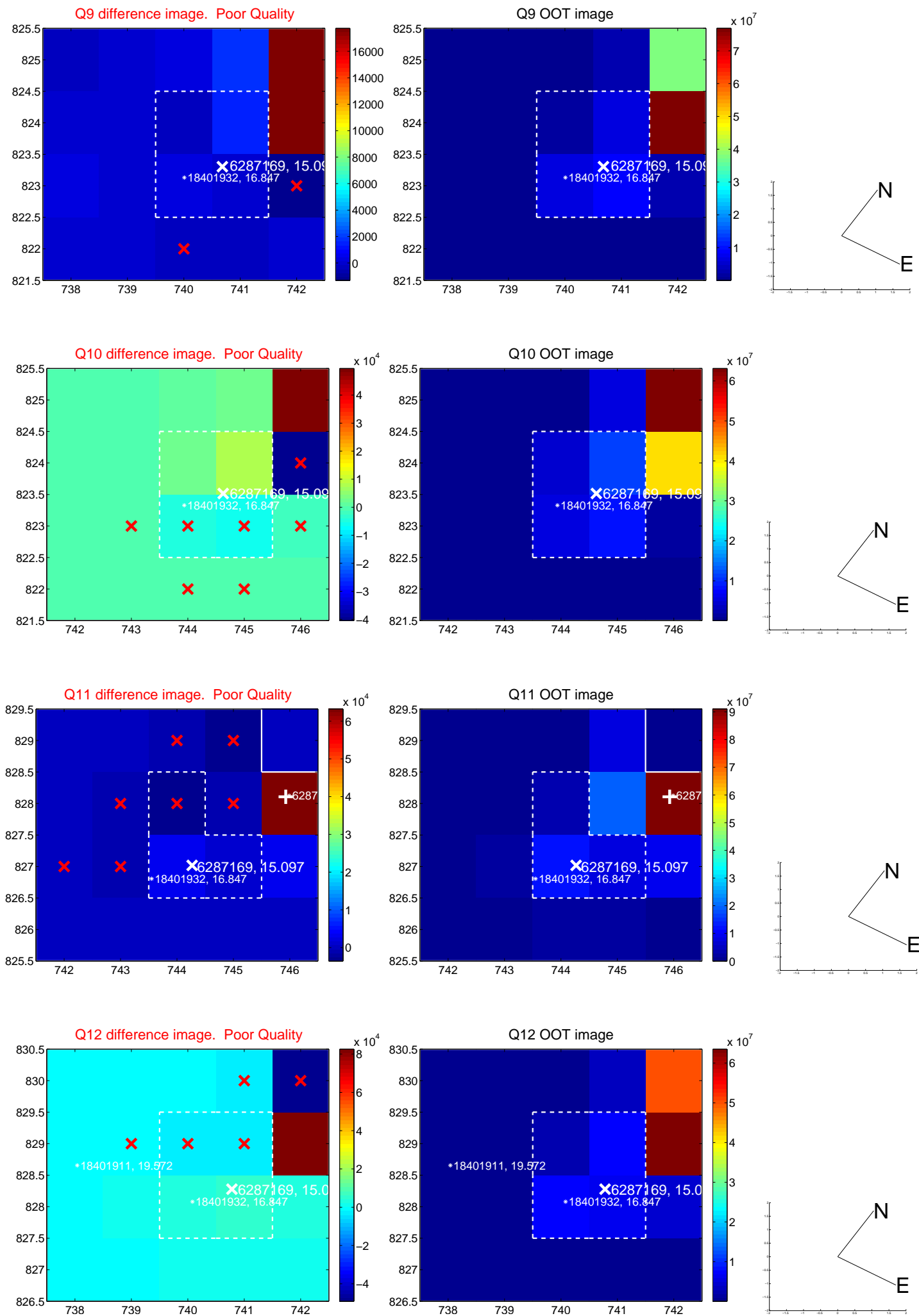
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



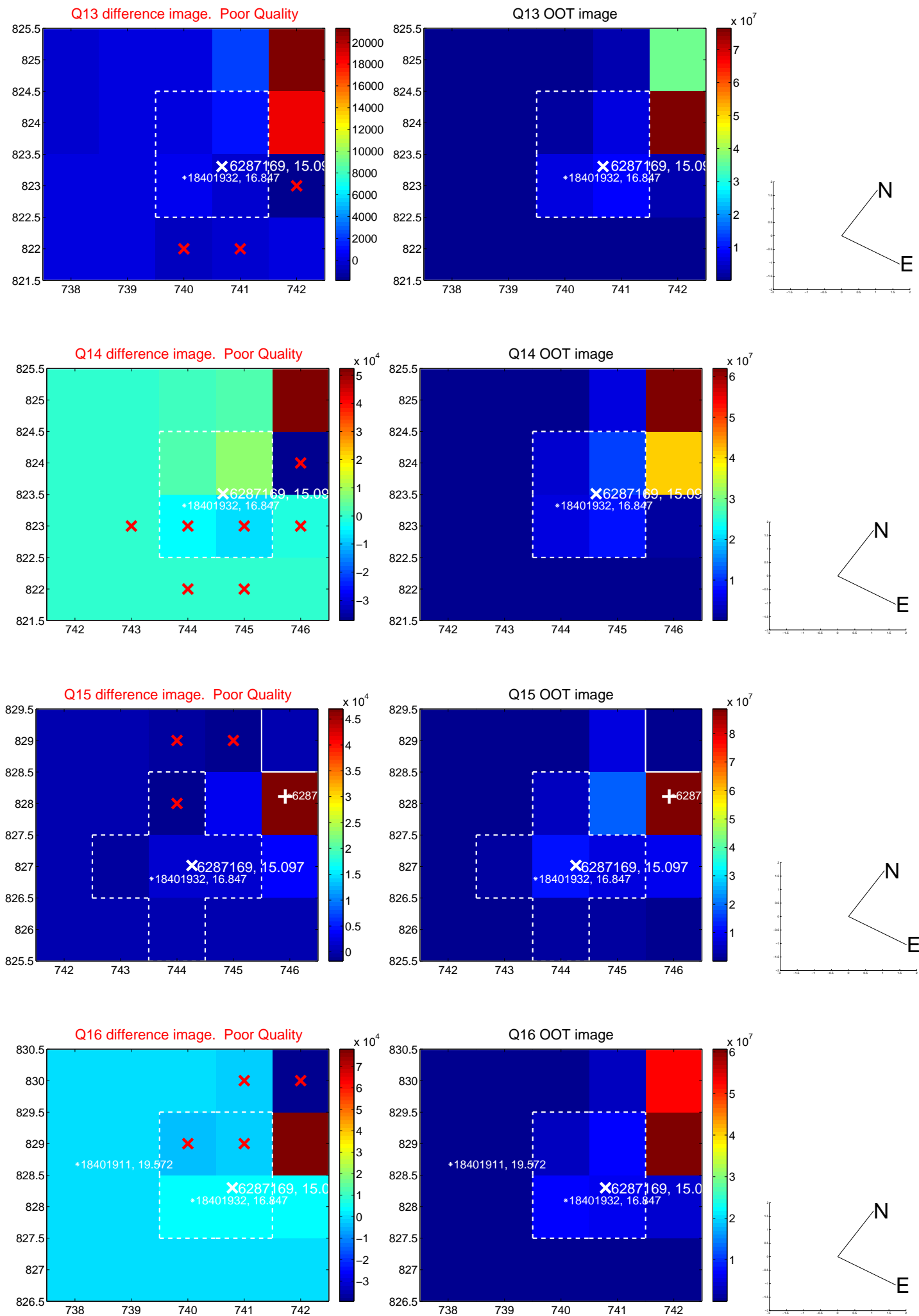
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



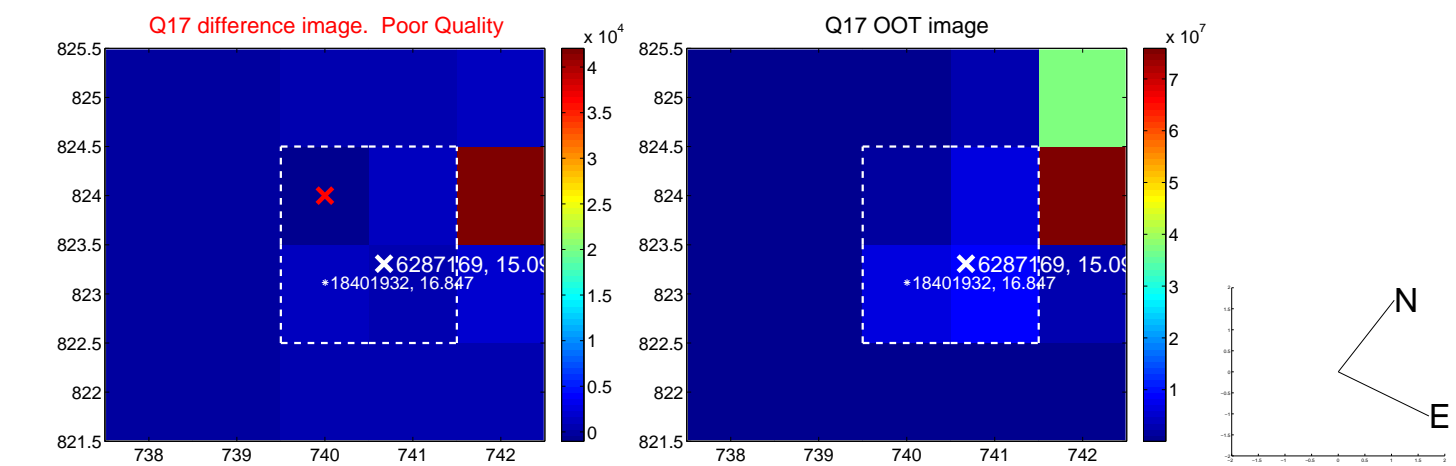
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



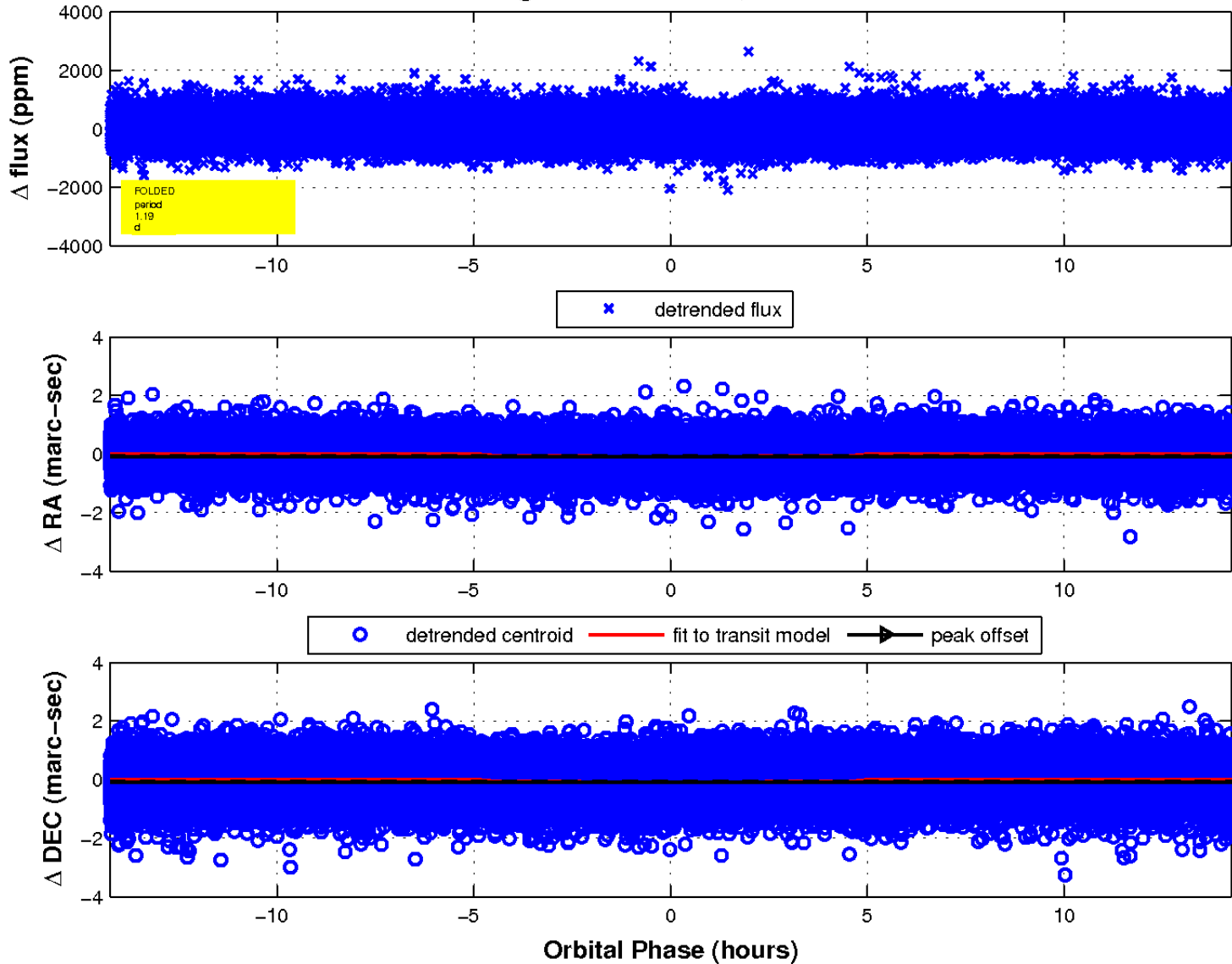
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

