

KIC 007032274

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})
007032274-01	OBS	No	0.566686	132.012933	2.7	5.796	11.5	0.8	1.14	6404	0.19	9817.94

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032274-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_UNCERTAIN—EPHEM_MATCH

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.

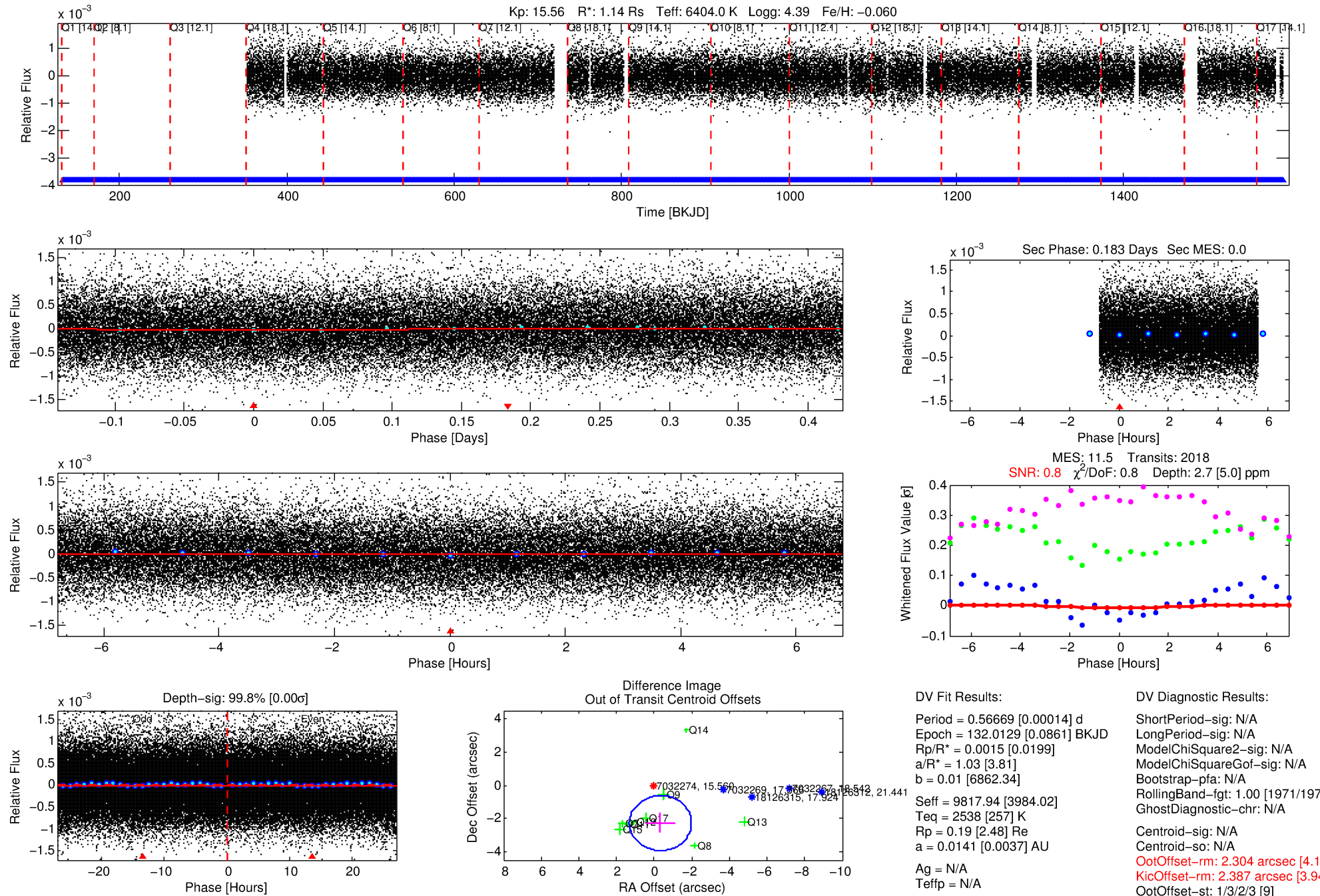
Ephemeris Match Information For 007032274-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist ($''$)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007032274-01	7032274	RR-Lyr-pri	7198959	1:1	841.6	180	-112	7.86	15.56	207770.00	Direct-PRF	0	3.68	8.70

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

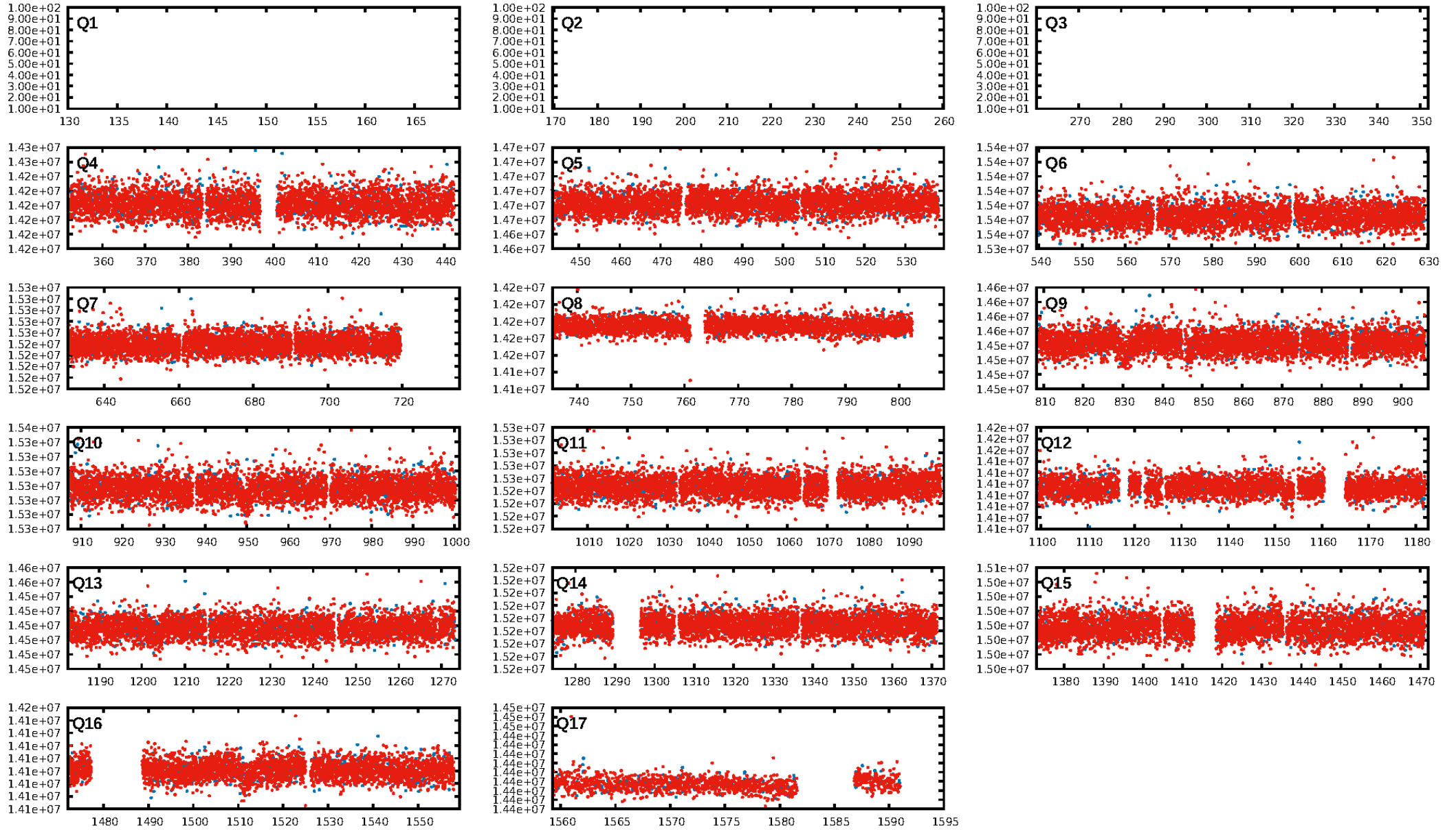
KIC: 7032274 Candidate: 1 of 1 Period: 0.567 d



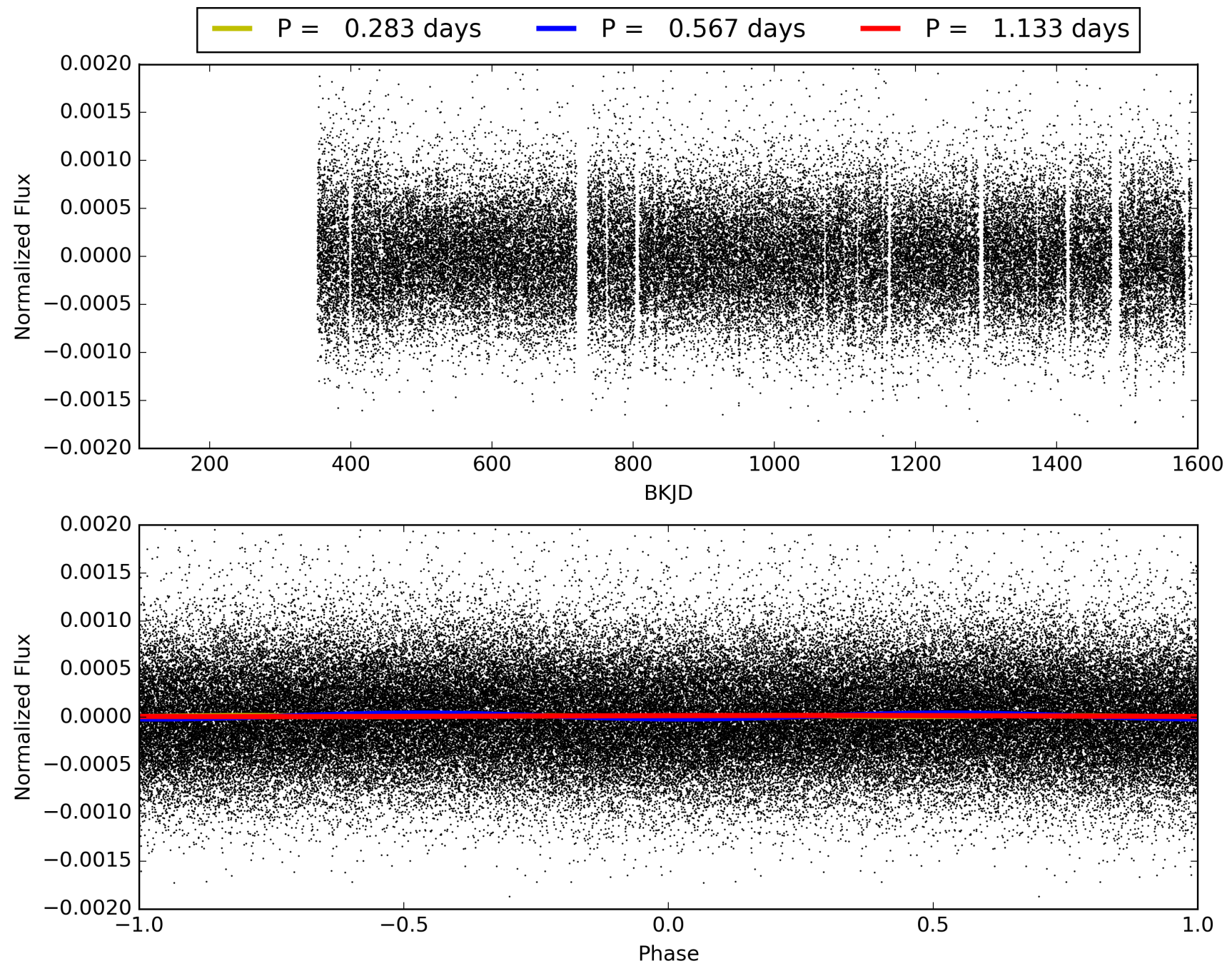
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 08:52:48 Z

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

TCE 007032274-01, PDC Light Curves

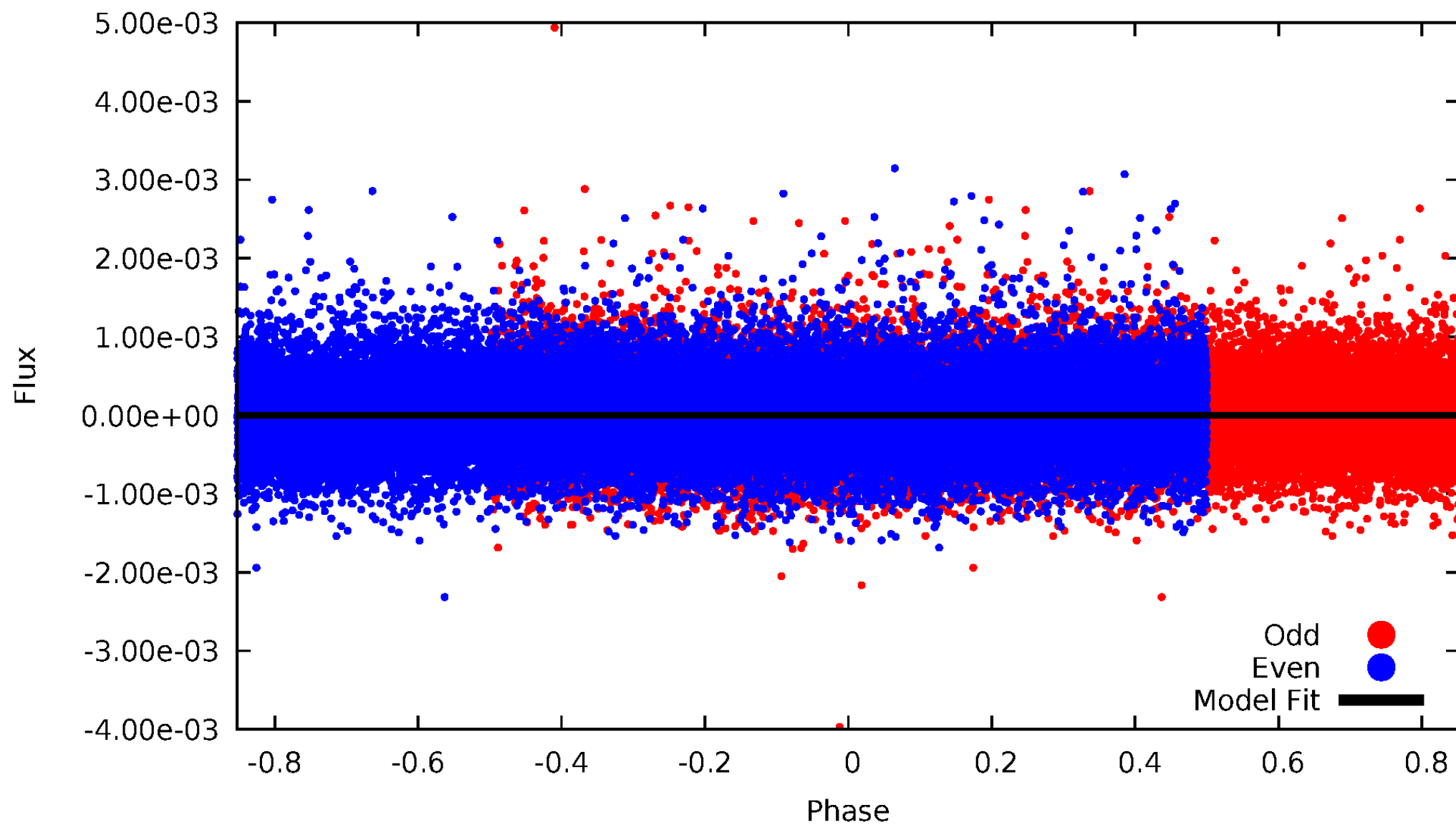


TCE 007032274-01



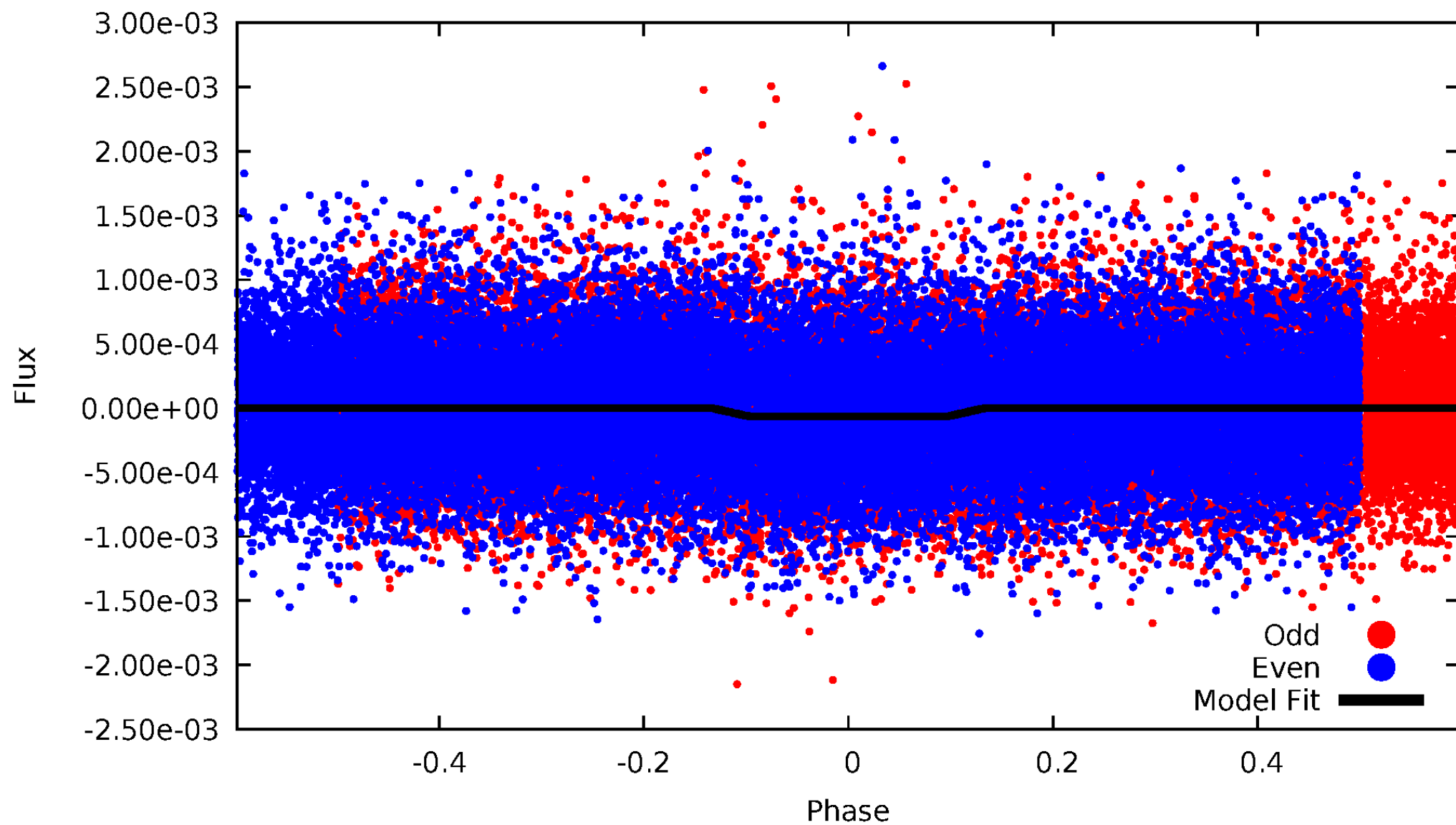
DV Odd/Even

TCE 007032274-01



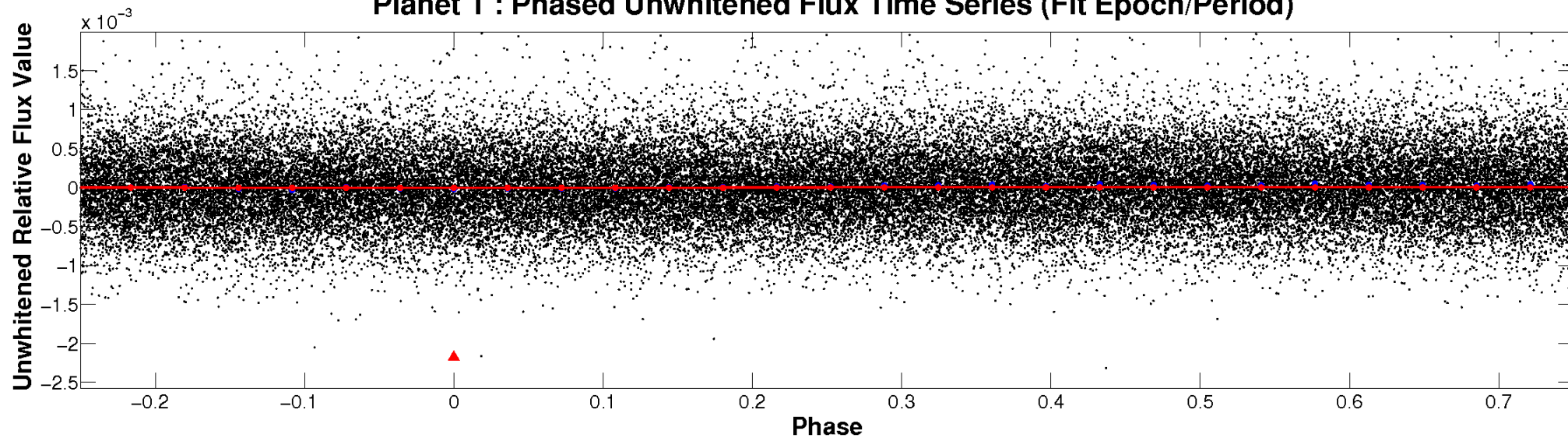
ALT Odd/Even

TCE 007032274-01

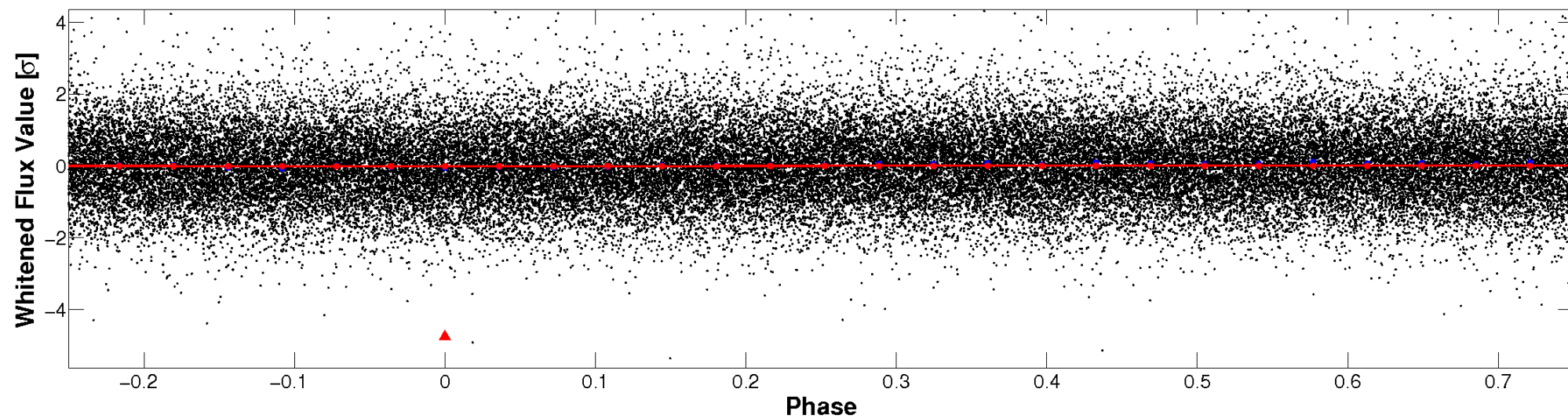


Non-Whitened Vs. Whitened Light Curve

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

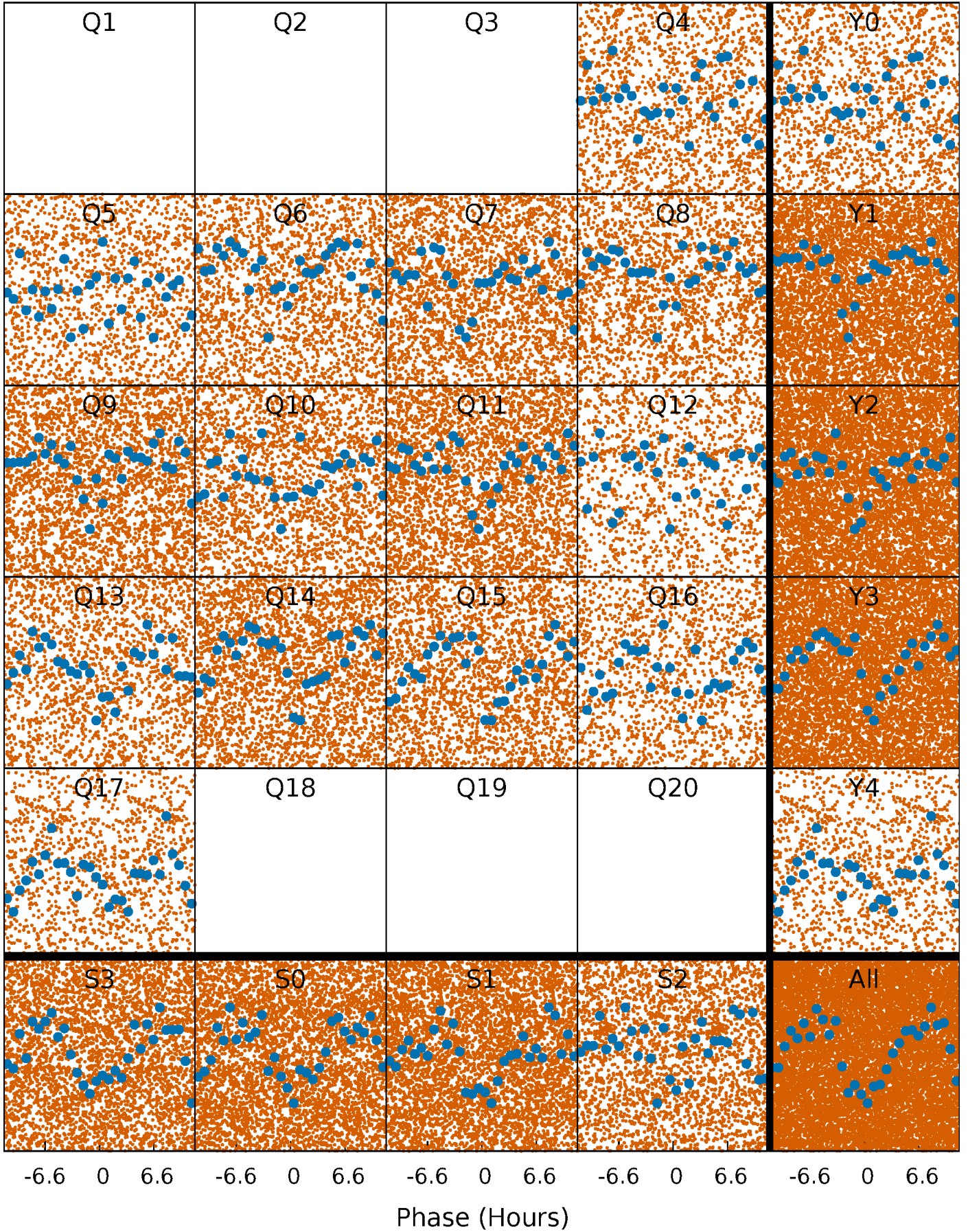


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



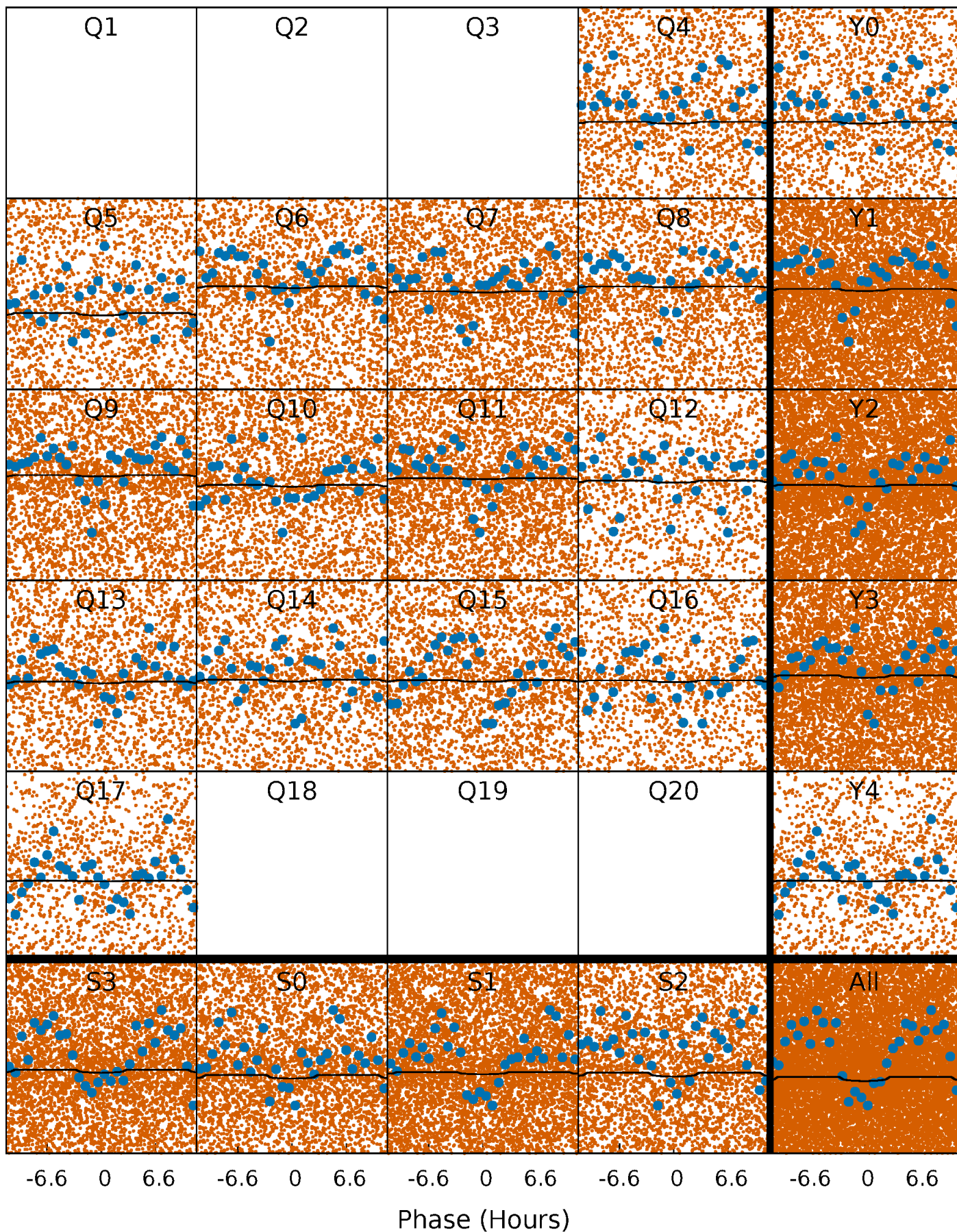
PDC Quarter-Phased Transit Curves

TCE 007032274-01 P= 0.566686 Days $T_0=132.012933$ (BKJD)



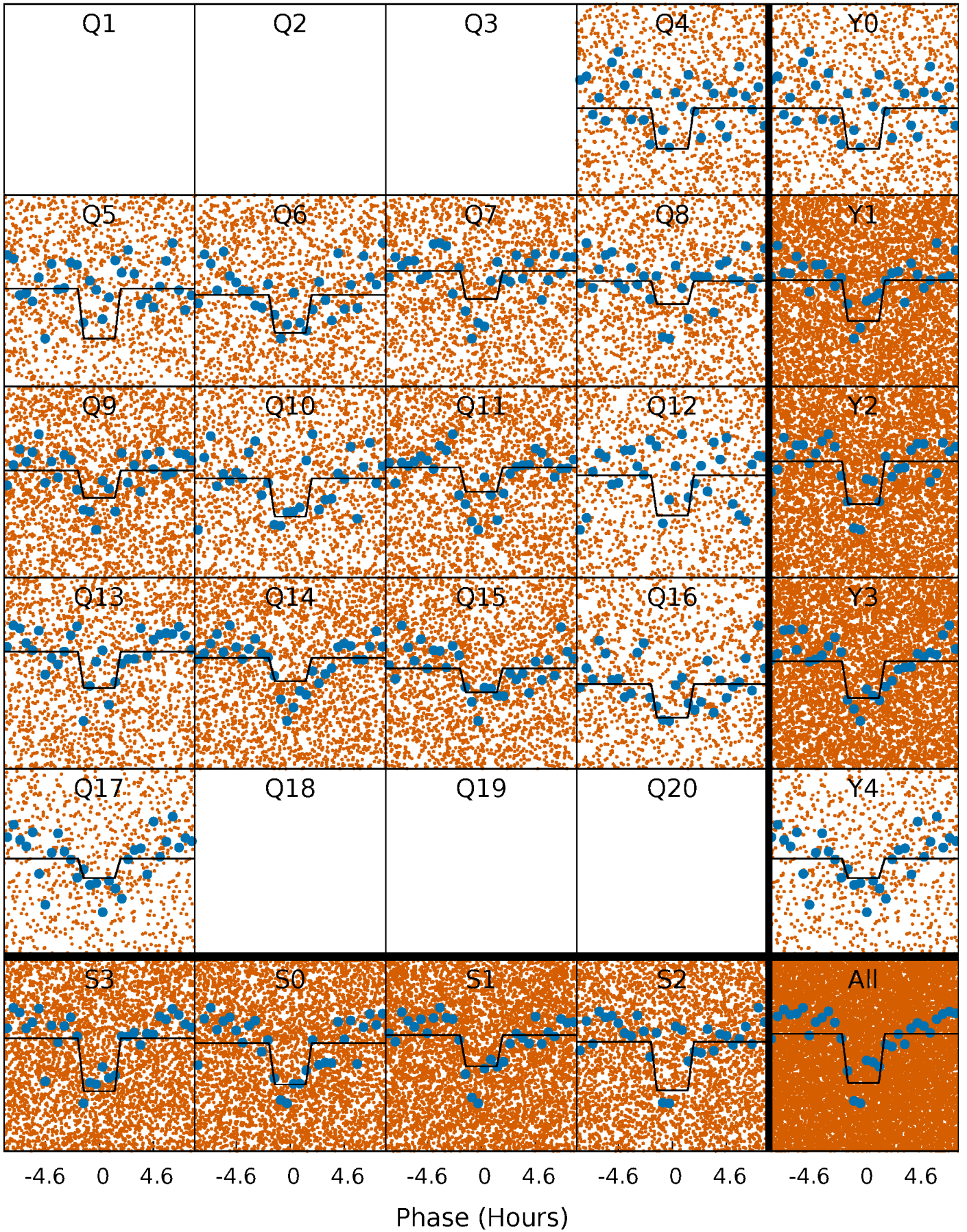
DV Quarter-Phased Transit Curves

TCE 007032274-01 P= 0.566686 Days $T_0=132.012933$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

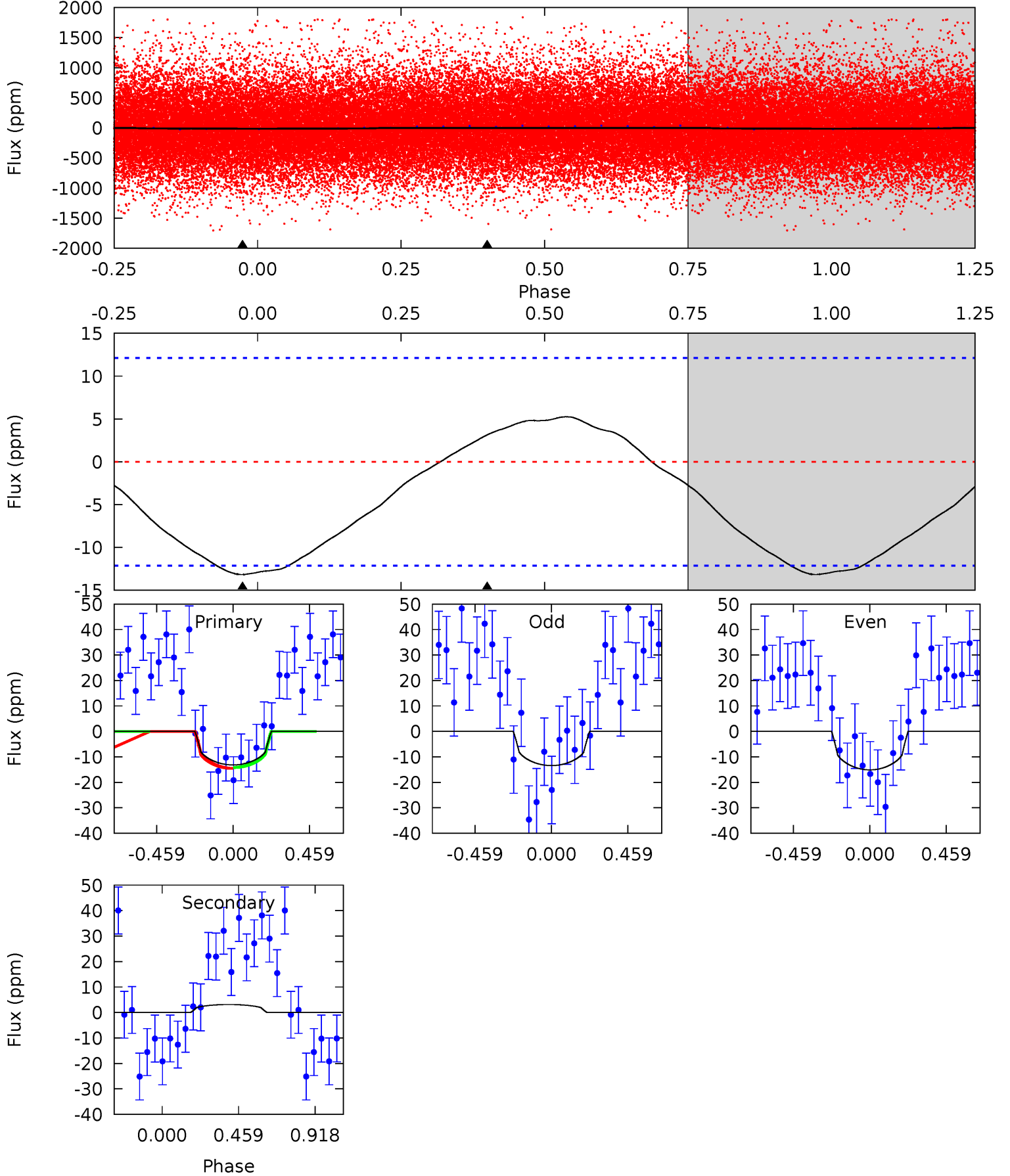
TCE 007032274-01 P= 0.566775 Days $T_0=131.865478$ (BKJD)



DV Model-Shift Uniqueness Test

007032274-01, P = 0.566686 Days, E = 132.012933 Days

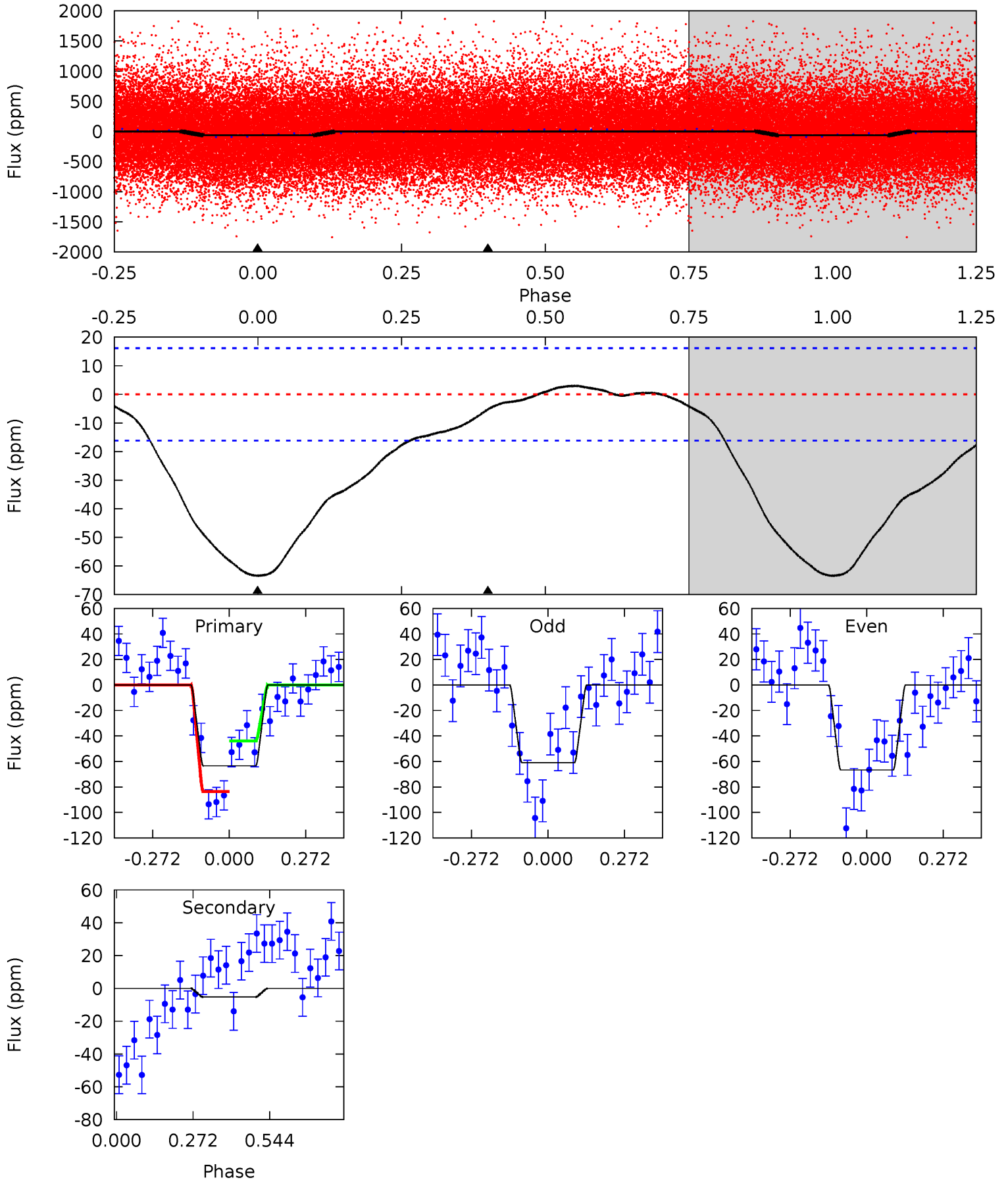
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.60	-1.10	0	0	4.23	0.74	0.52	4.60	4.60	-1.10	-1.10	0.29	0.79	0.29	0.06



Alt Model-Shift Uniqueness Test

007032274-01, P = 0.566775 Days, E = 131.865478 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.1	1.42	0	0	4.35	1.10	0.37	17.1	17.1	1.42	1.42	0.76	1.02	0.04	5.33



Stellar Parameters For KIC 007032274

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6404^{+179}_{-246}	$4.393^{+0.067}_{-0.202}$	$-0.060^{+0.250}_{-0.300}$	$1.142^{+0.363}_{-0.156}$	$1.175^{+0.169}_{-0.169}$	$1.113^{+0.389}_{-0.590}$
	+3%/-4%	+2%/-5%	+417%/-500%	+32%/-14%	+14%/-14%	+35%/-53%
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 007032274-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	3 ± 3	$1.84^{+1.79}_{-1.29}$	3624^{+256}_{-211}	-3654^{+239}_{-759}	$-0.080^{+0.075}_{-0.802}$
Alt.	-5 ± 4	$2.27^{+2.19}_{-1.53}$	3620^{+266}_{-189}	-3234^{+7168}_{-276}	$0.092^{+0.879}_{-0.075}$

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 $A_{obs} \gg 1.0$

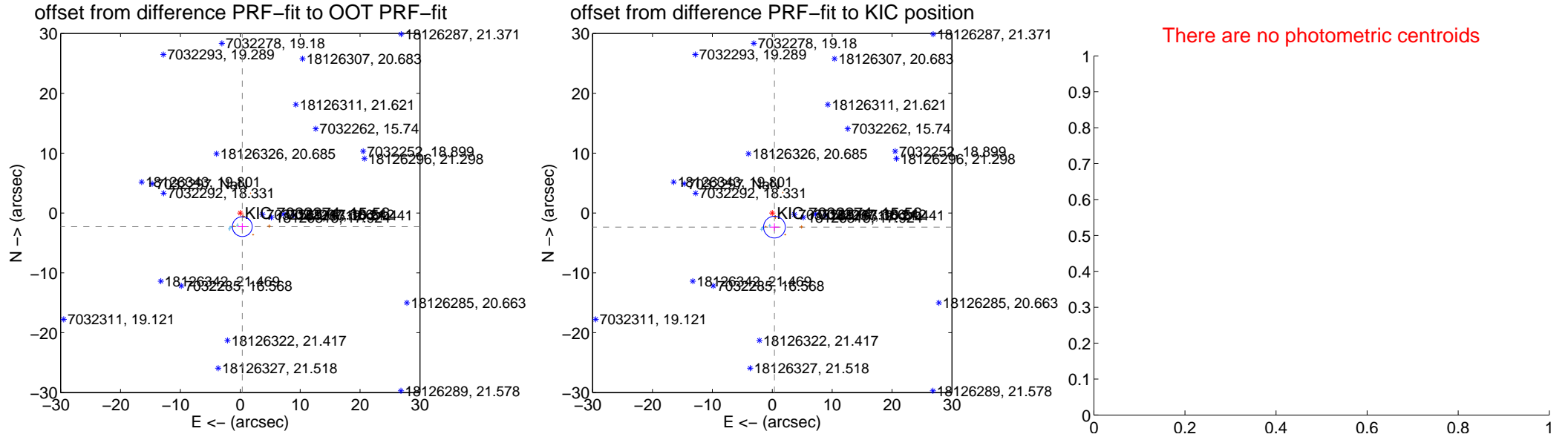
DV Centroid Data

Supplemental centroid analysis for 007032274-01. Kepler magnitude: 15.56. Transit SNR 0.77

There are 4 quarters with good PRF difference image offsets

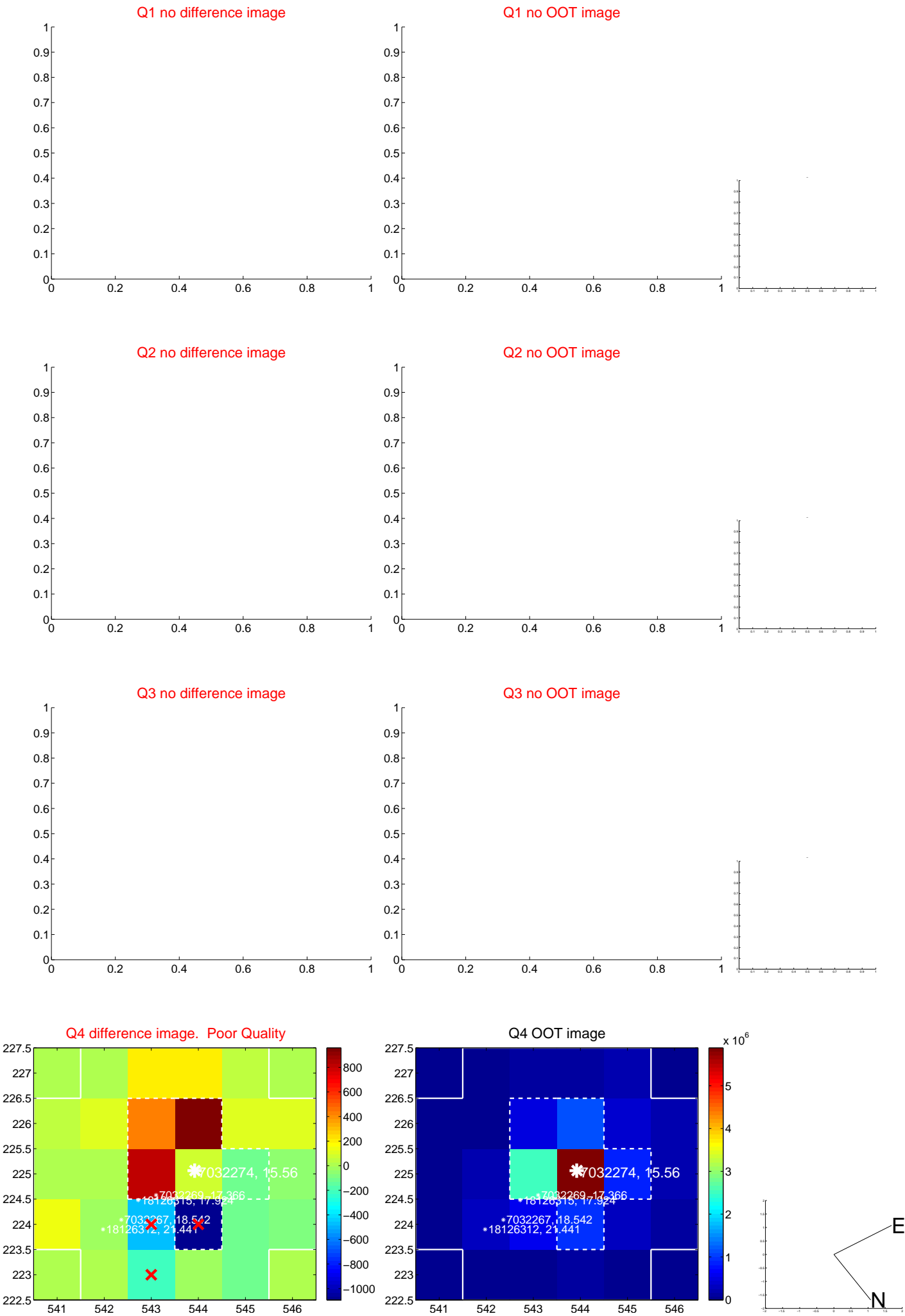
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.304 ± 0.551	4.18	-0.336 ± 0.736	-2.279 ± 0.563
PRF-fit source offset from KIC position	2.387 ± 0.605	3.94	-0.363 ± 0.775	-2.359 ± 0.635
photometric centroid source offset	—	—	—	—

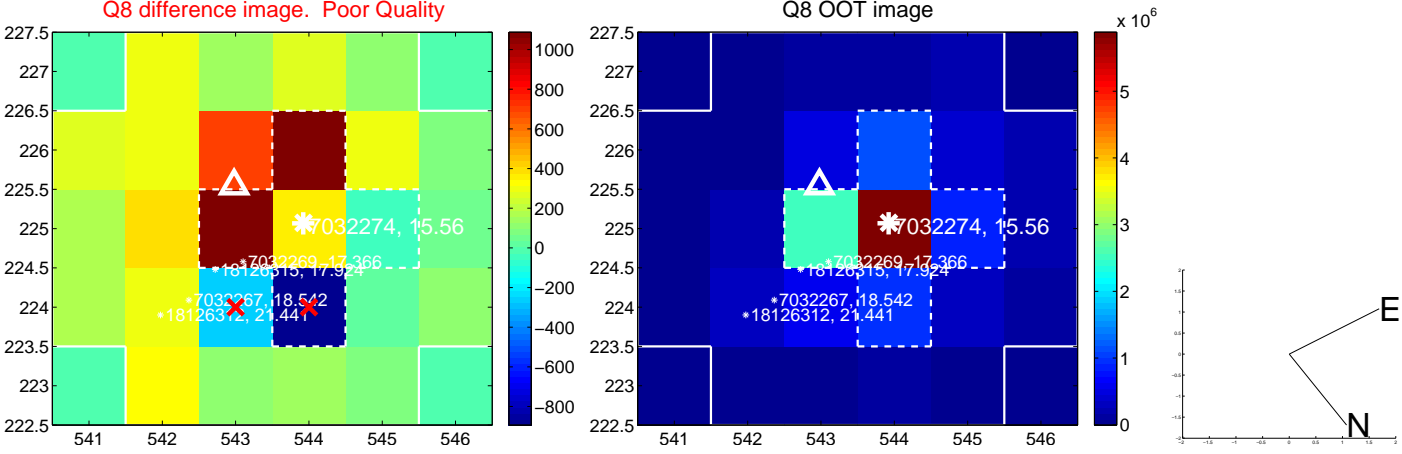
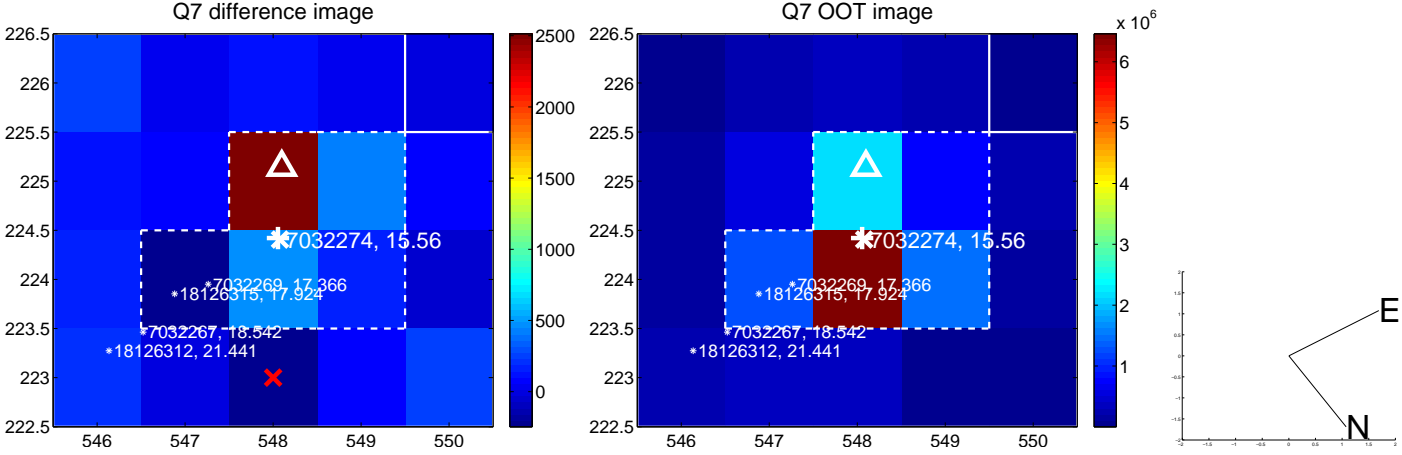
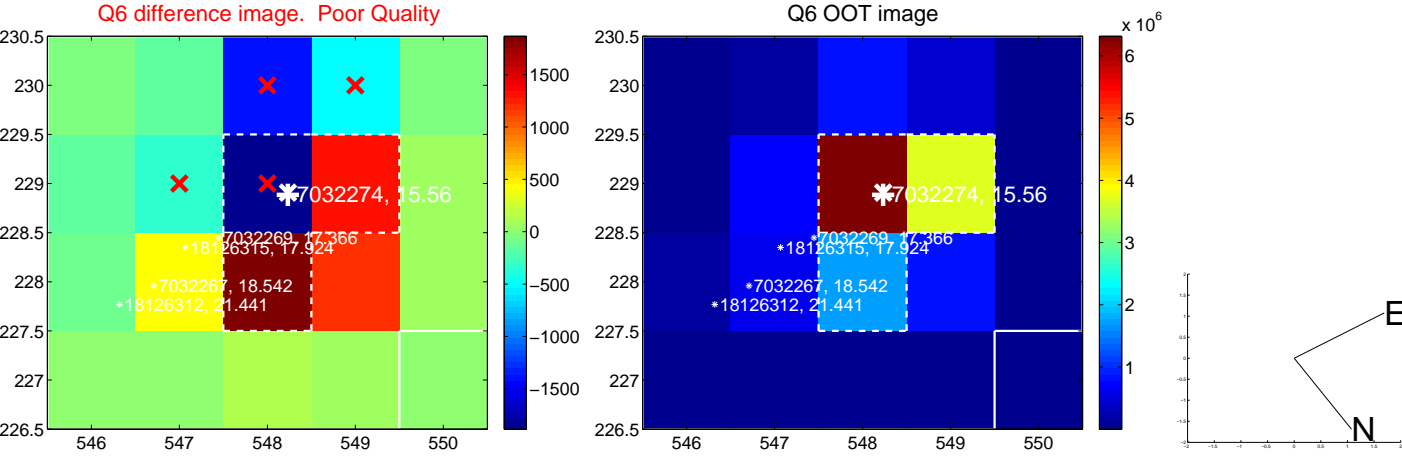
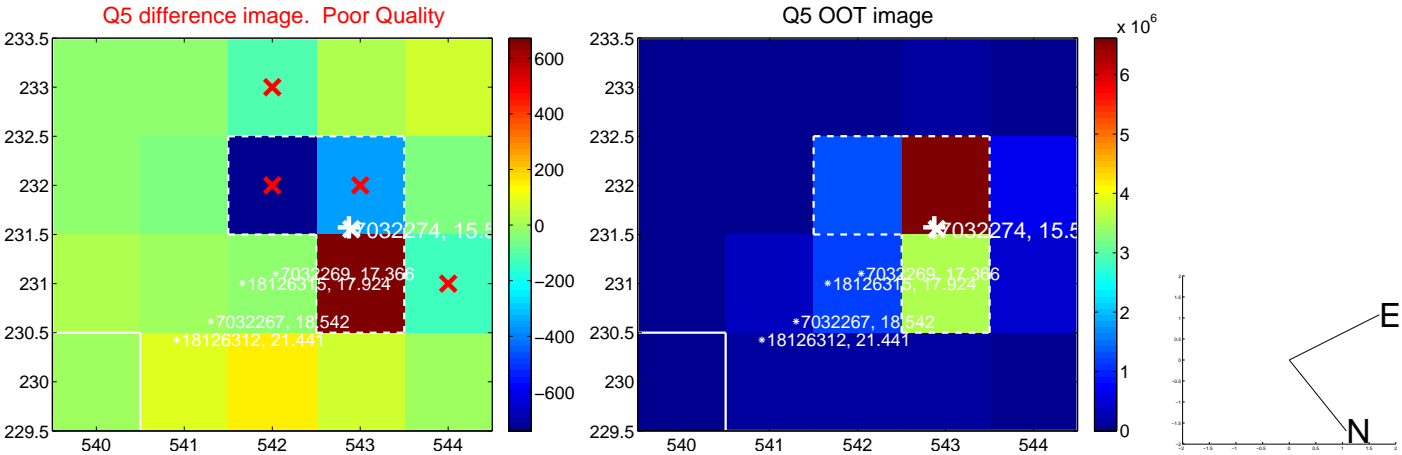


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

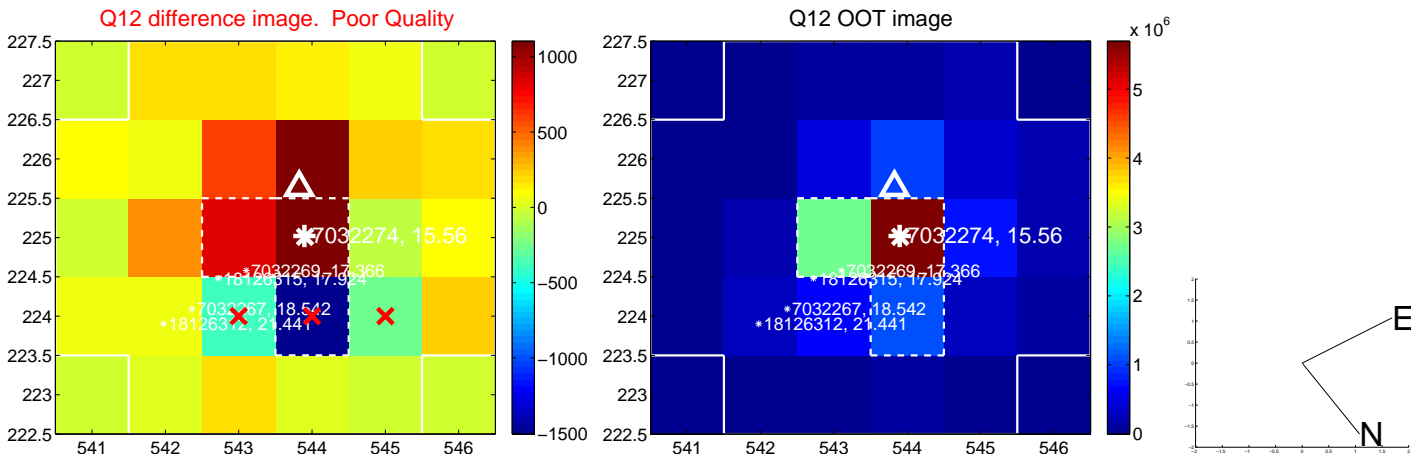
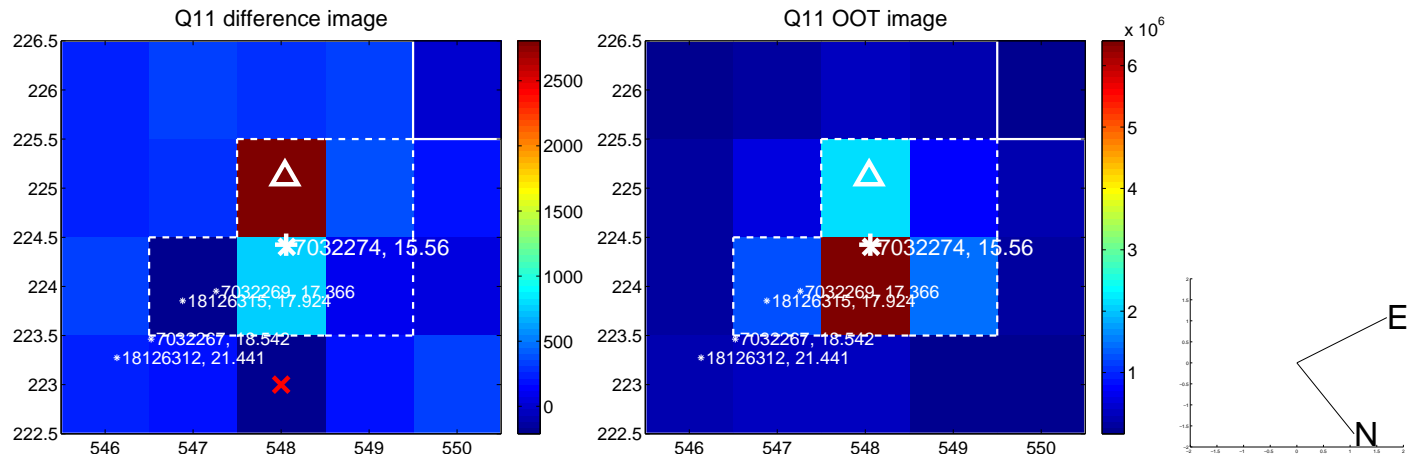
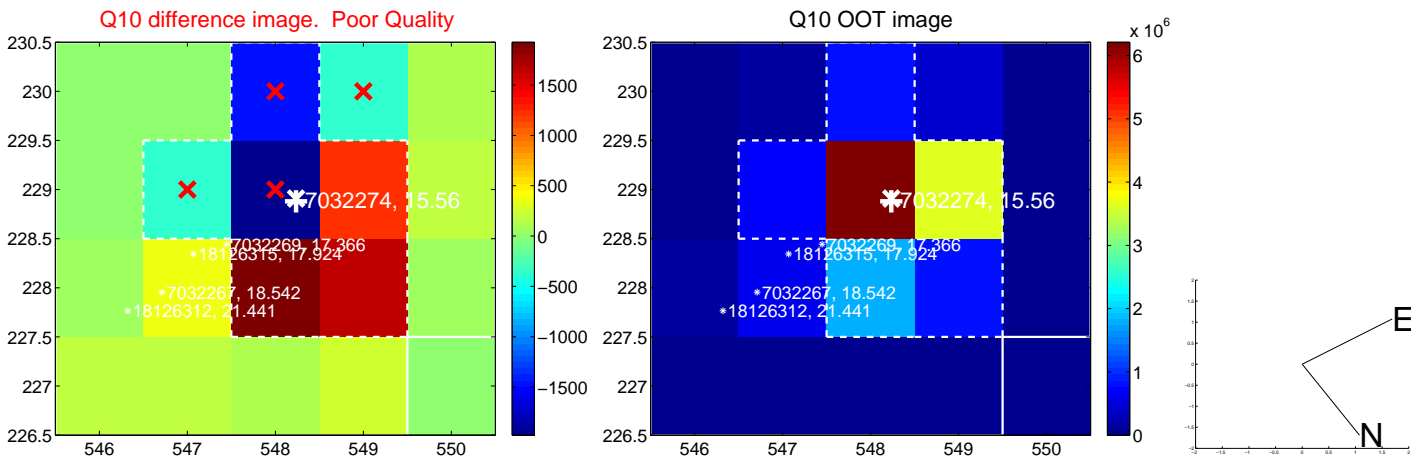
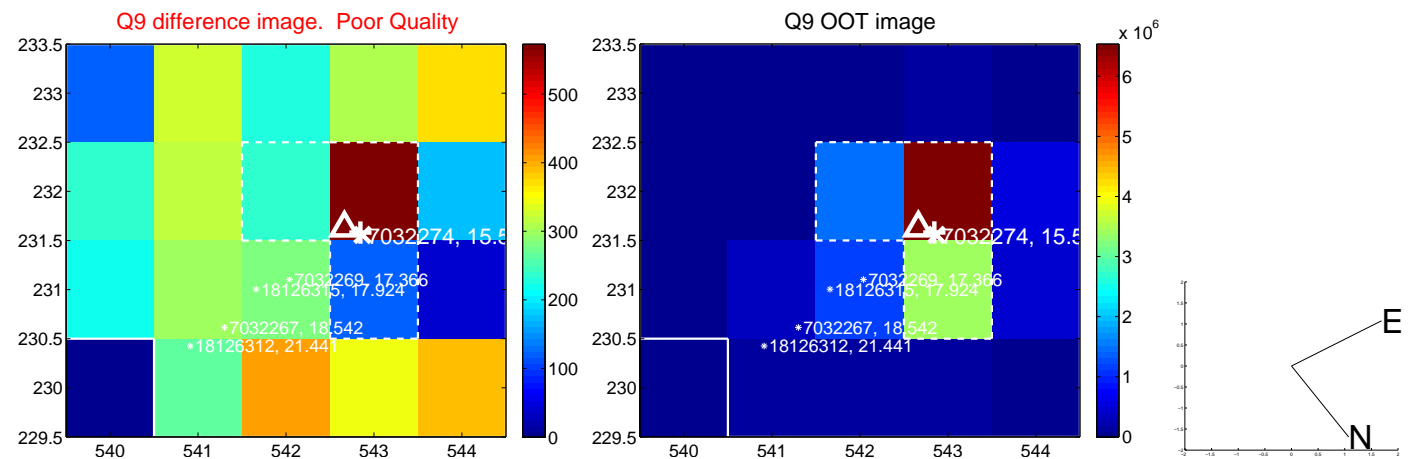
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



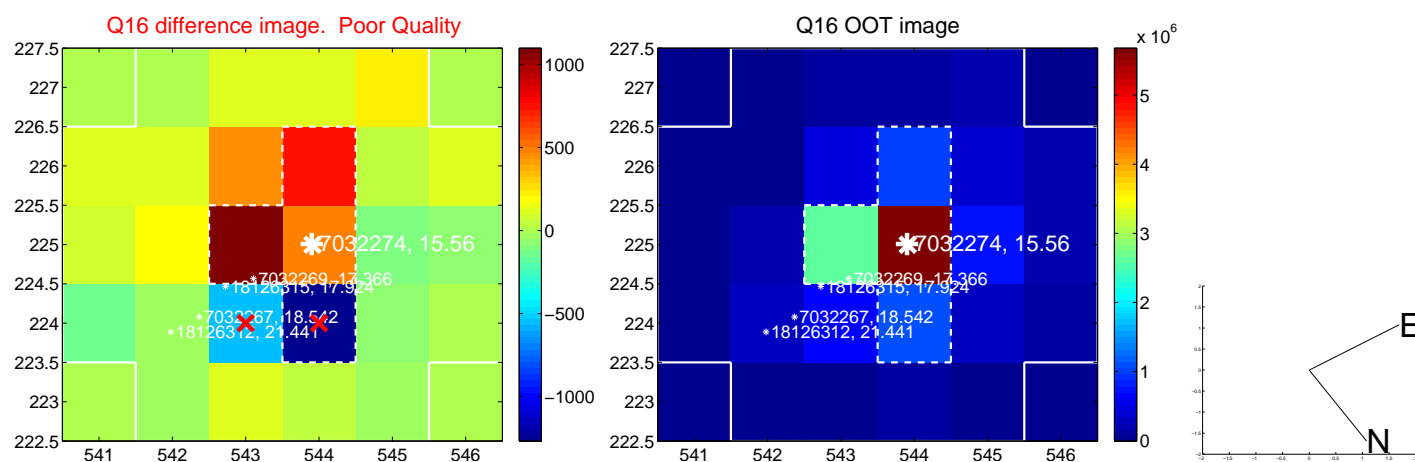
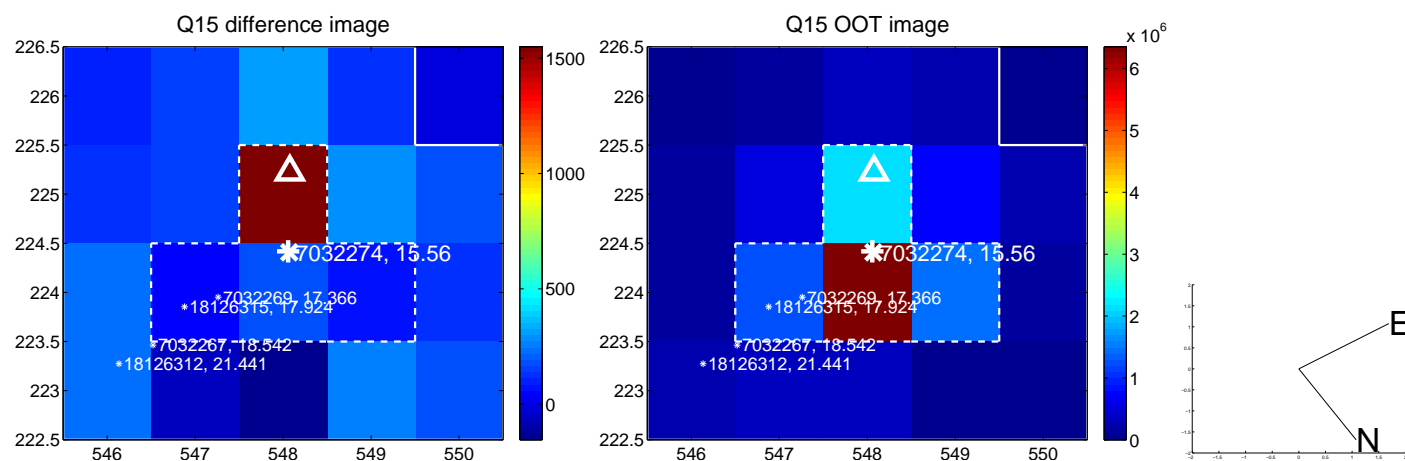
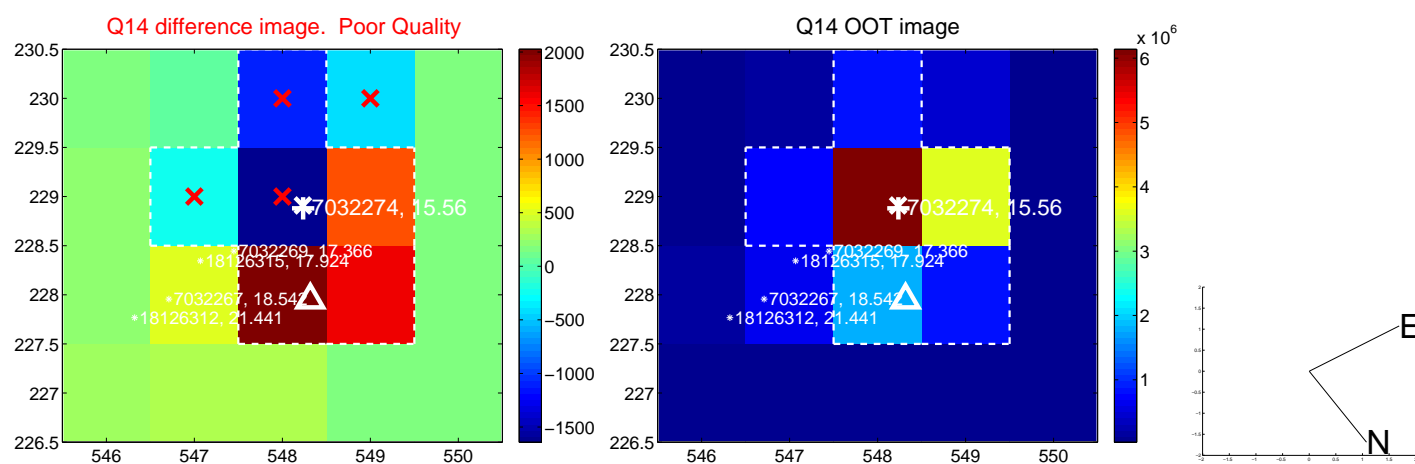
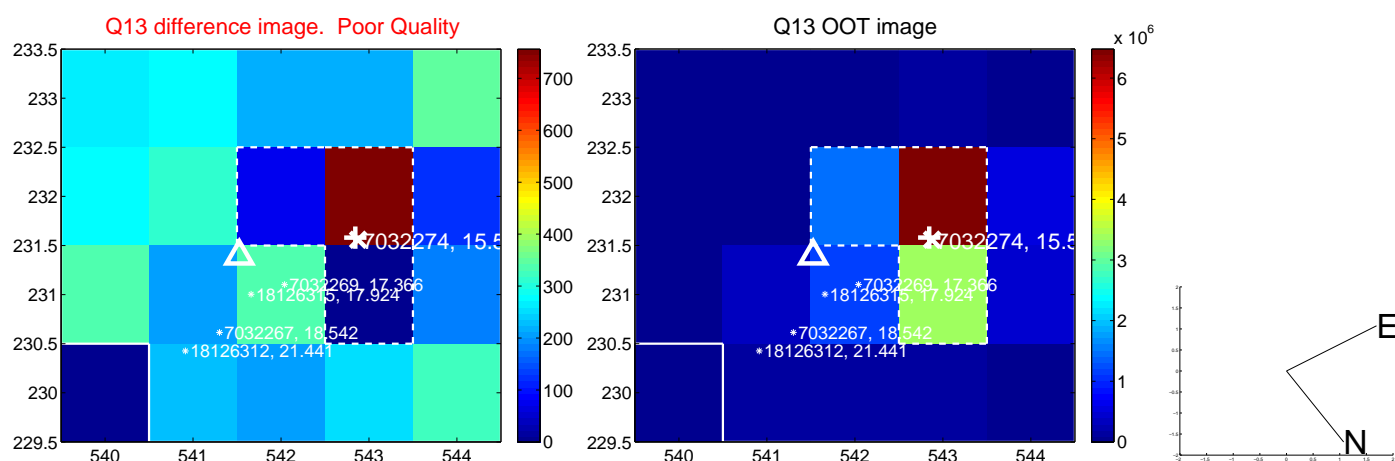
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



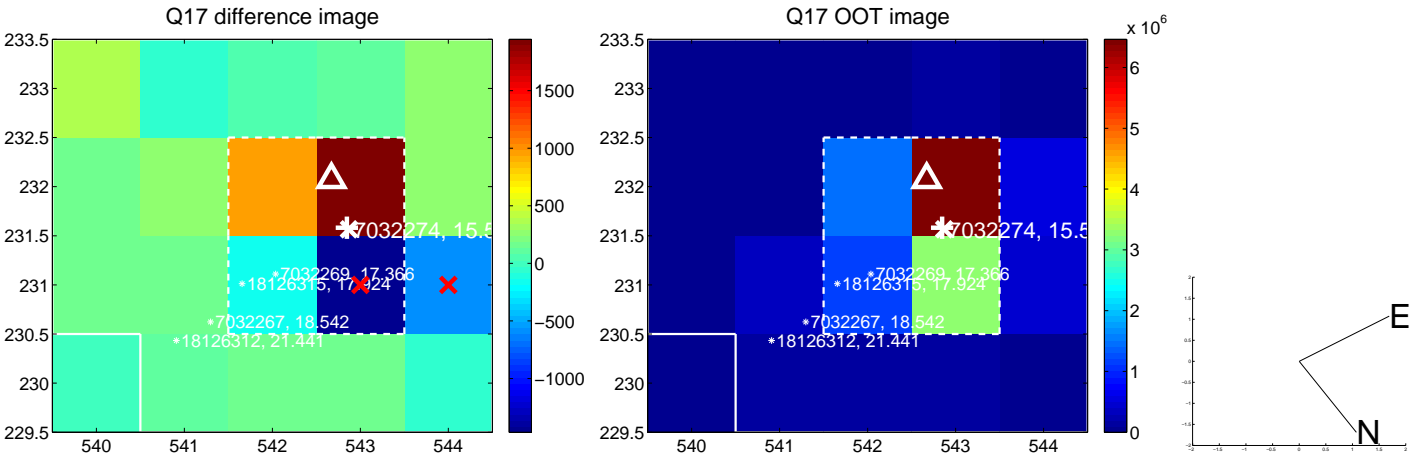
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

