

KIC 011560273

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})
011560273-01	OBS	No	1.827567	132.862552	4.2	15.273	21.3	8.8	3.45	9225	0.73	47294.23

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011560273-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

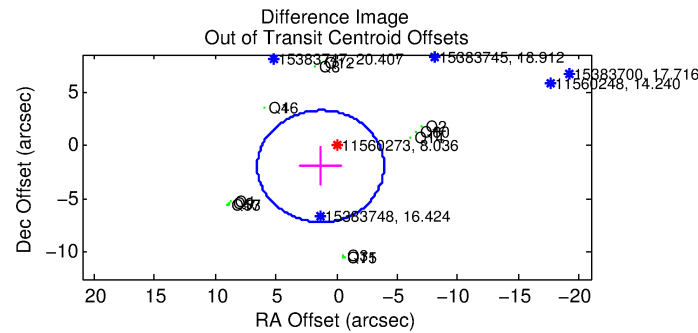
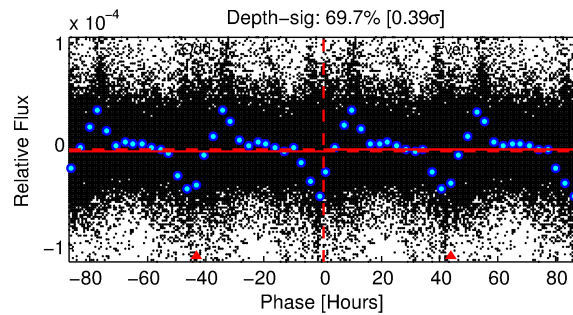
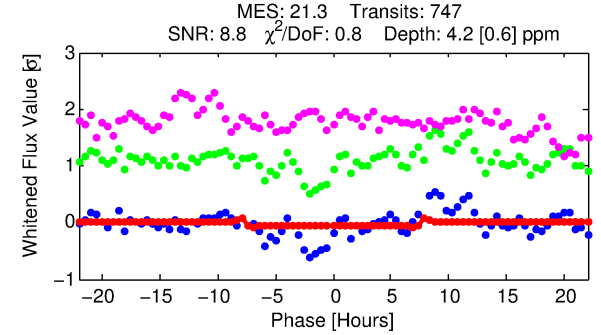
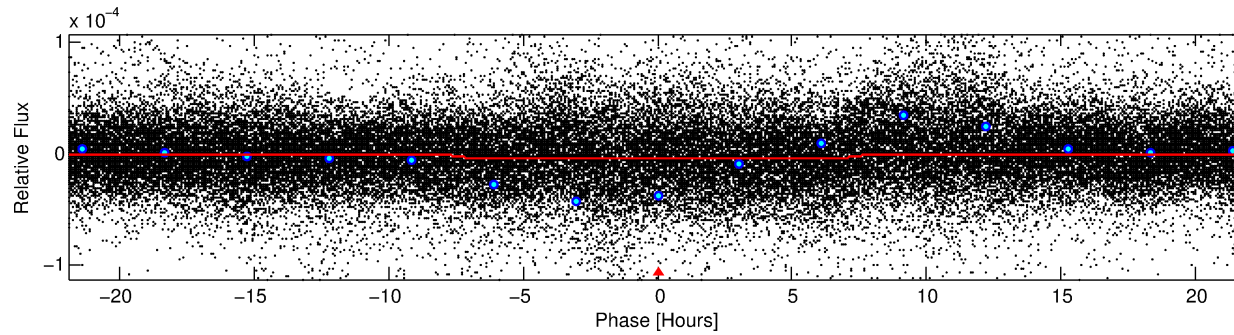
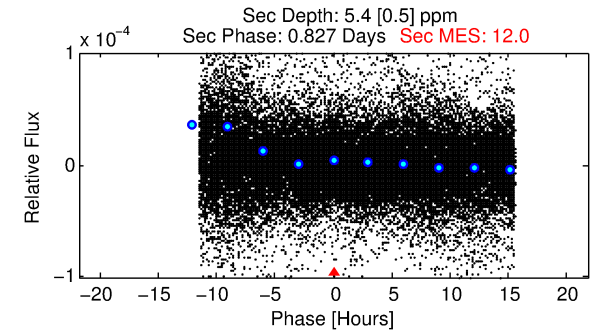
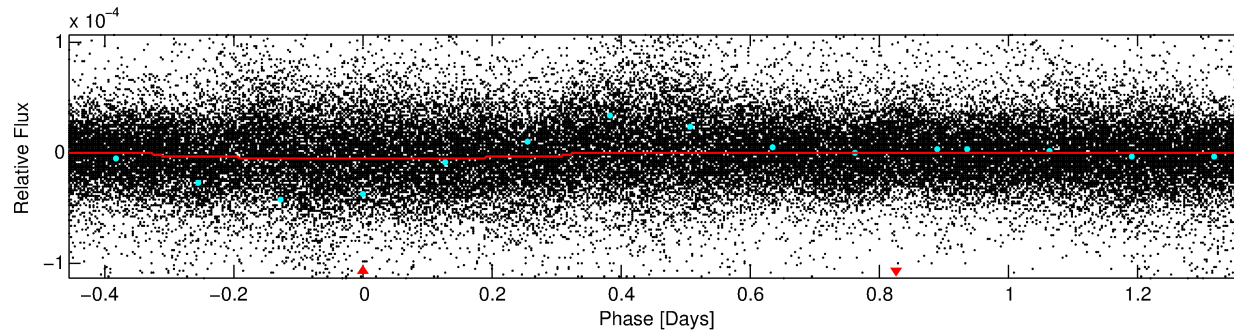
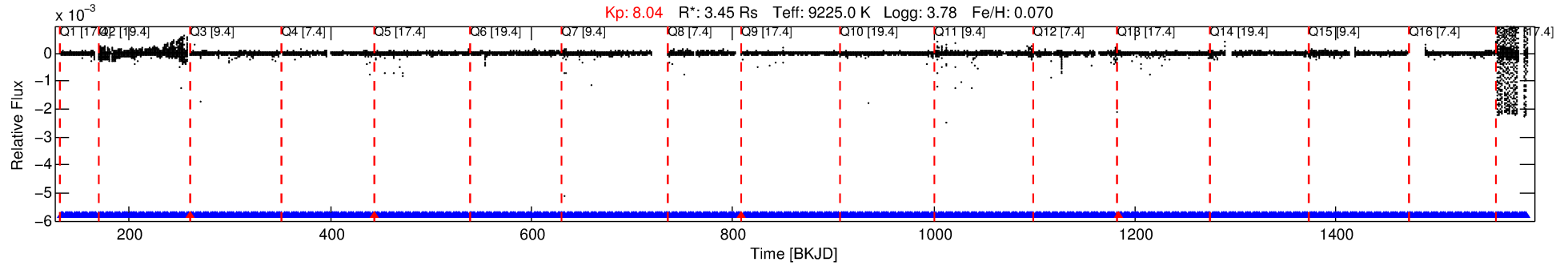
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011560273-01

No Significant Match Found

DV One-Page Summary

KIC: 11560273 Candidate: 1 of 1 Period: 1.828 d



DV Fit Results:

Period = 1.82757 [0.00002] d
Epoch = 132.8626 [0.0031] BKJD
Rp/R* = 0.0019 [0.0006]
a/R* = 1.11 [0.49]
b = 0.38 [5.27]
Seff = 47294.23 [33787.07]
Teq = 3760 [672] K
Rp = 0.73 [0.41] Re
a = 0.0404 [0.0175] AU
Ag = 9.12 [8.76] [0.93σ]
Teffp = 10103 [1776] K [3.34σ]

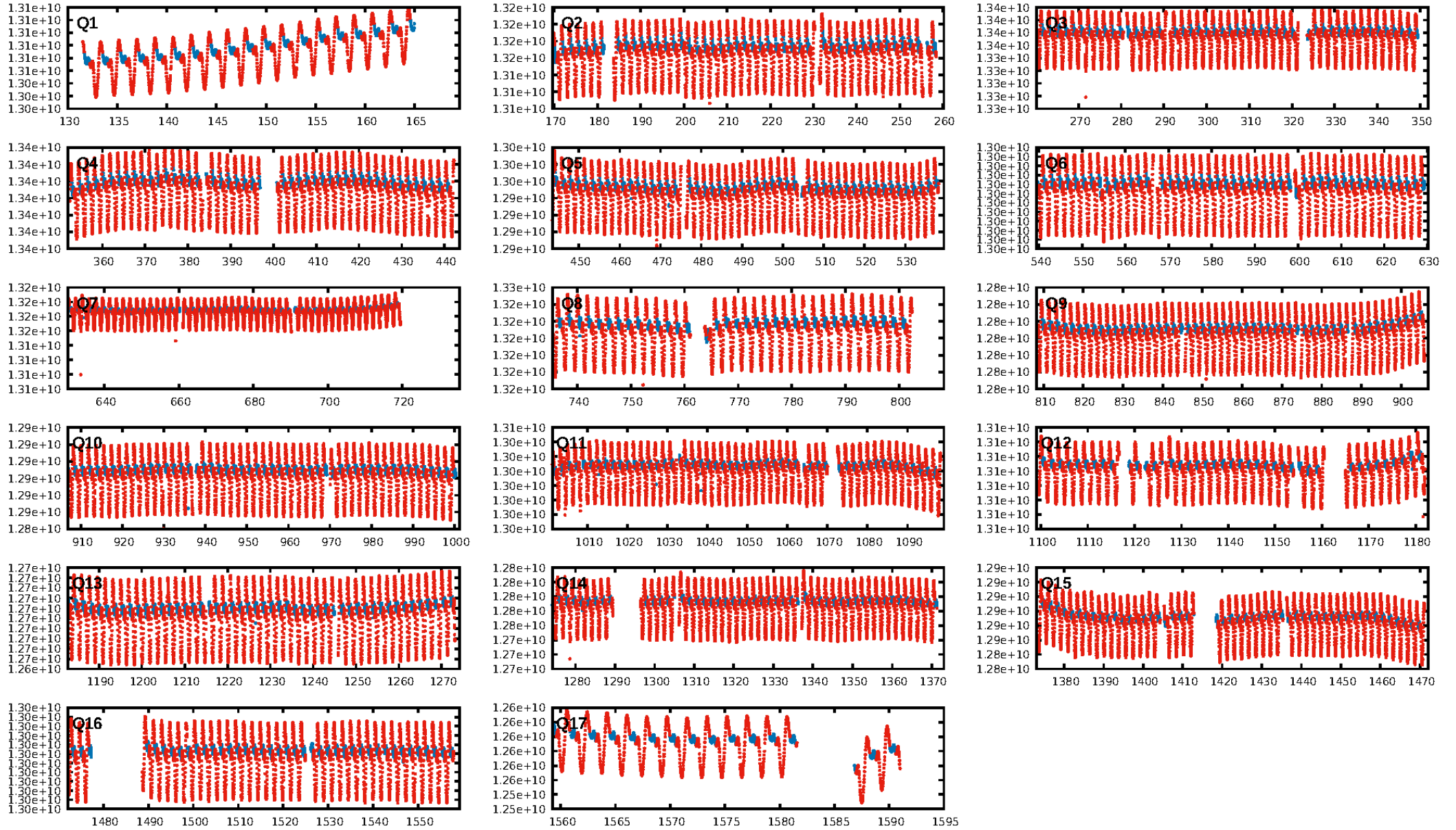
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [710/714]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.363 arcsec [1.36σ]
KicOffset-rm: 3.259 arcsec [1.75σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 1.00 [17/17]

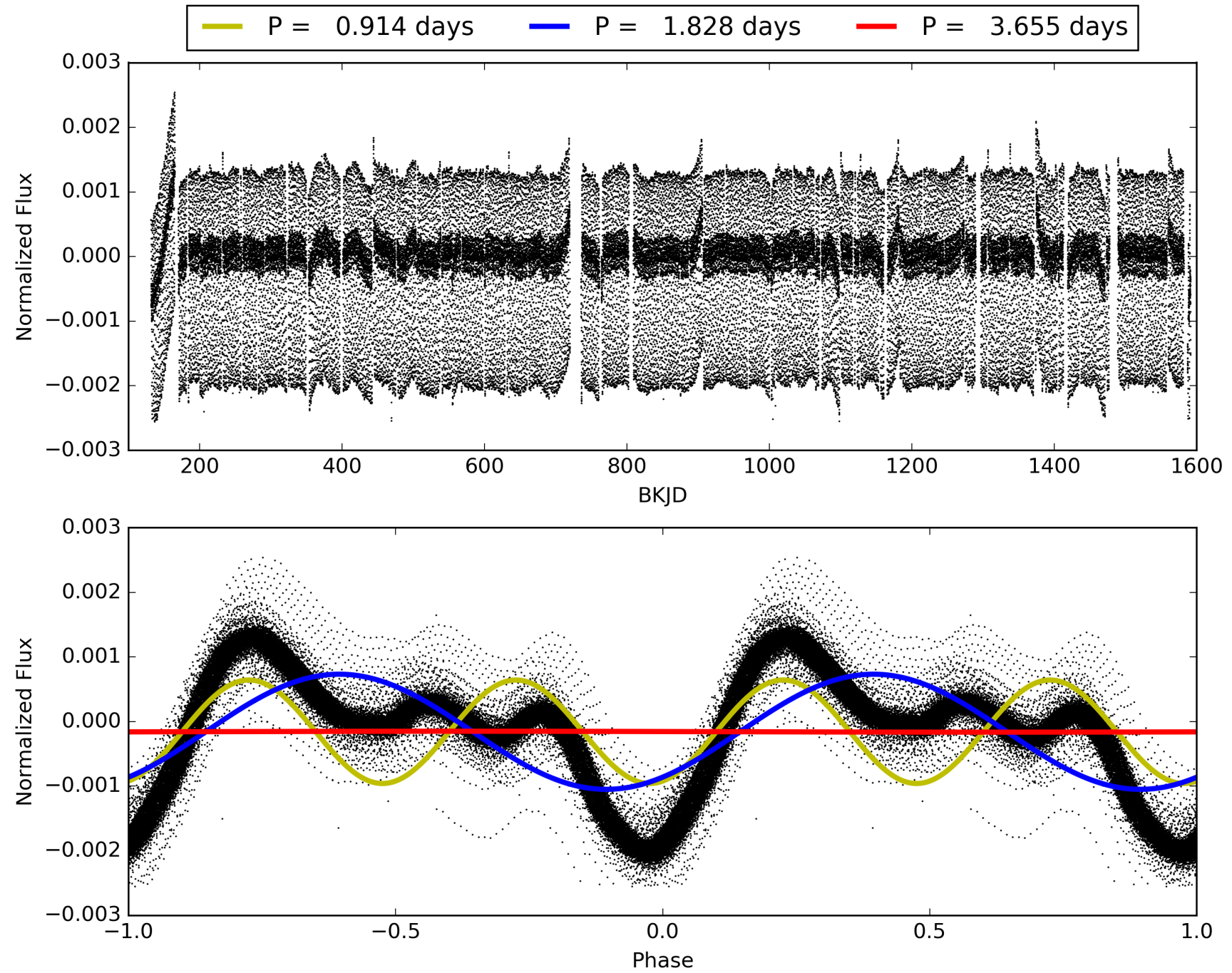
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 01:37:06 Z

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

TCE 011560273-01, PDC Light Curves

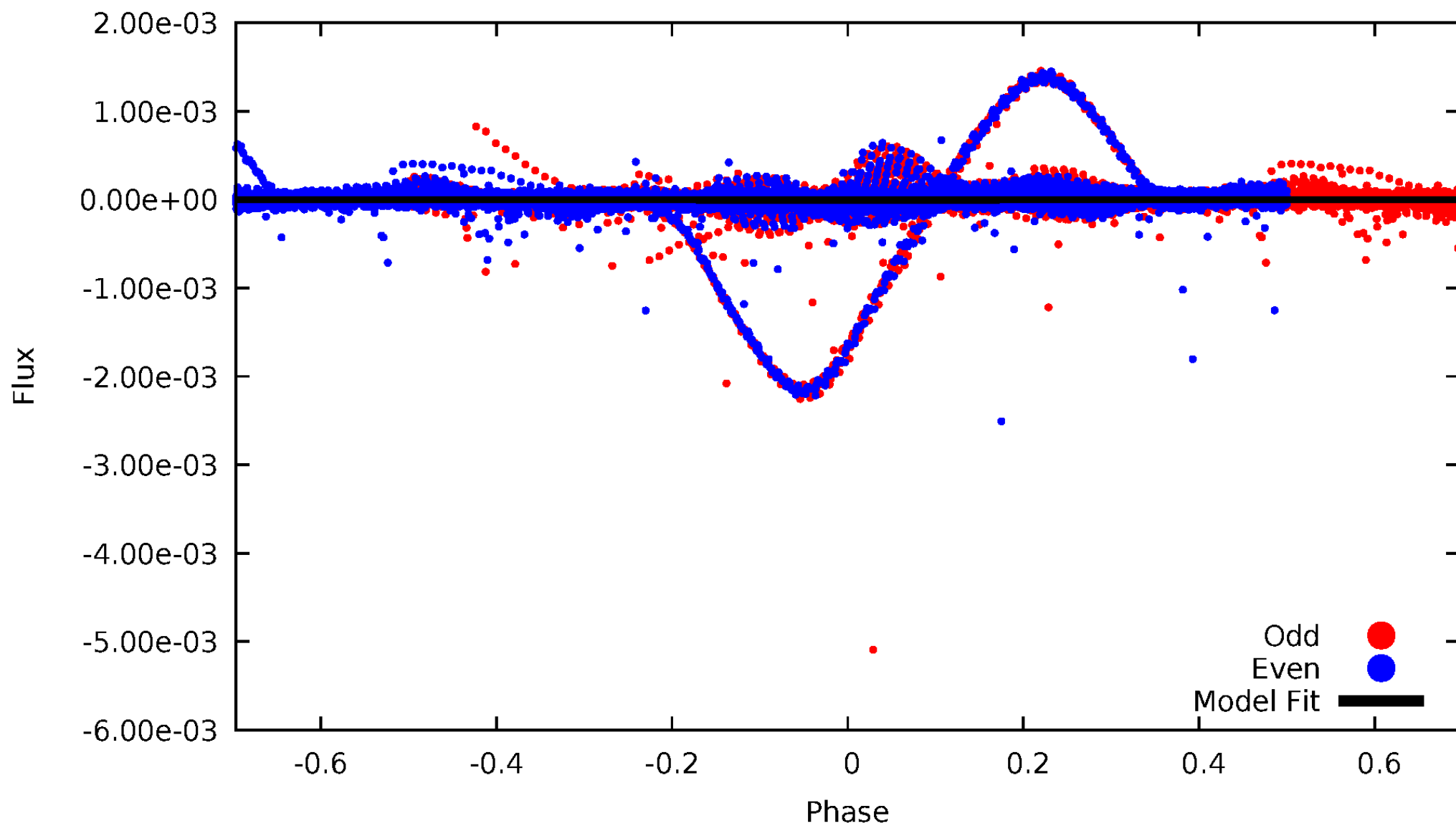


TCE 011560273-01



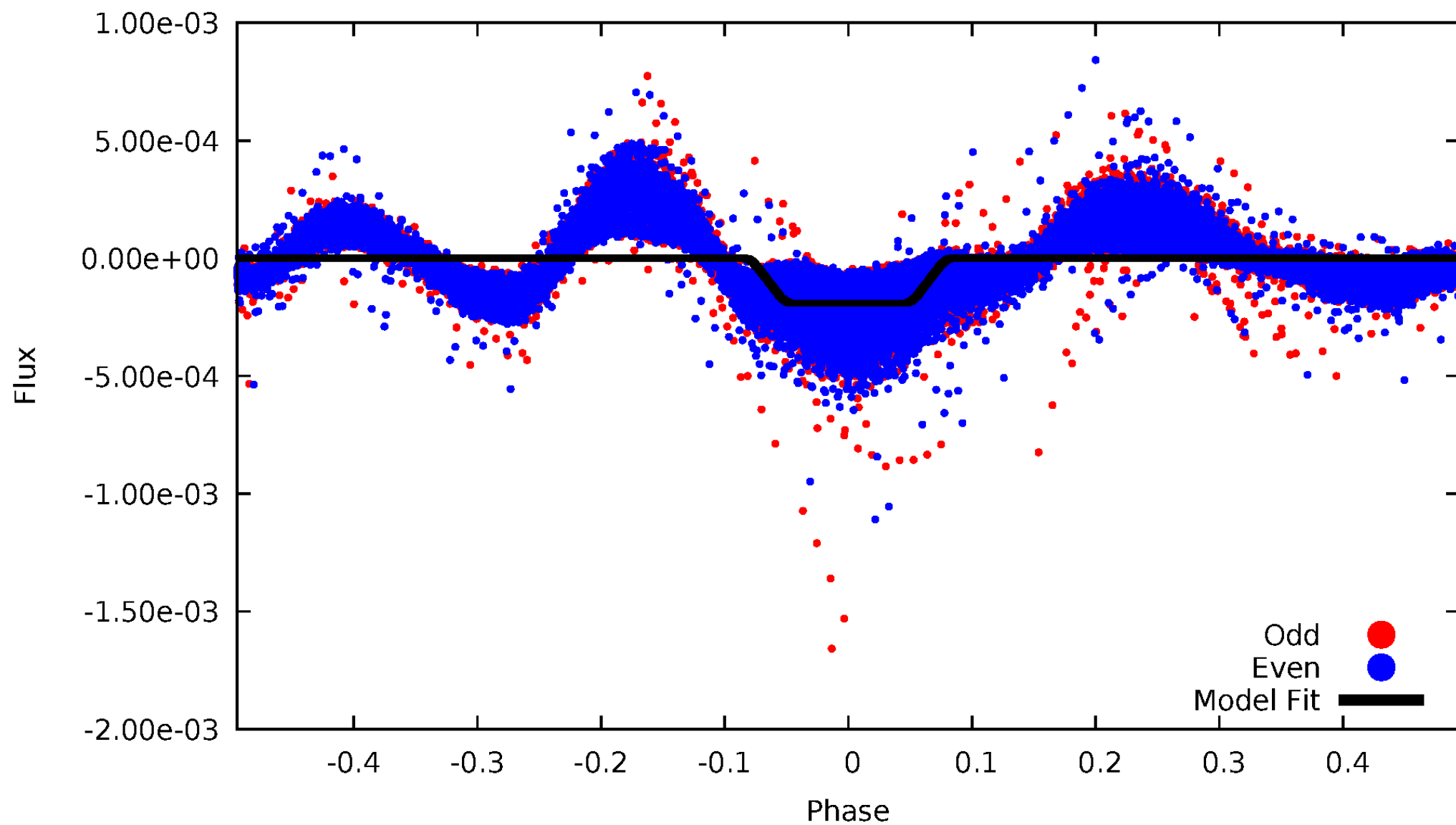
DV Odd/Even

TCE 011560273-01



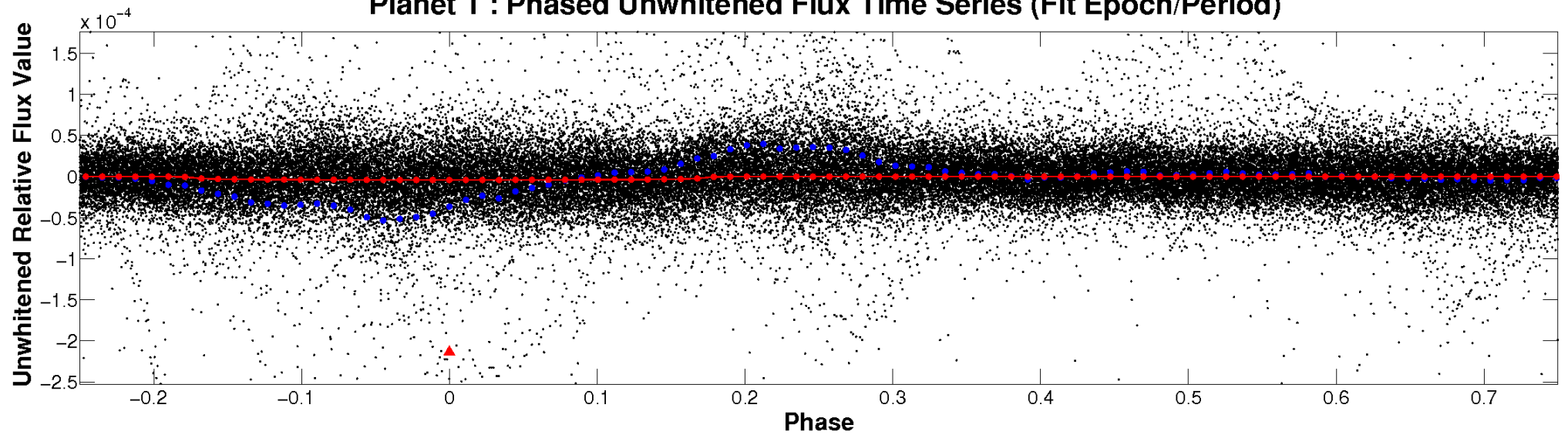
ALT Odd/Even

TCE 011560273-01

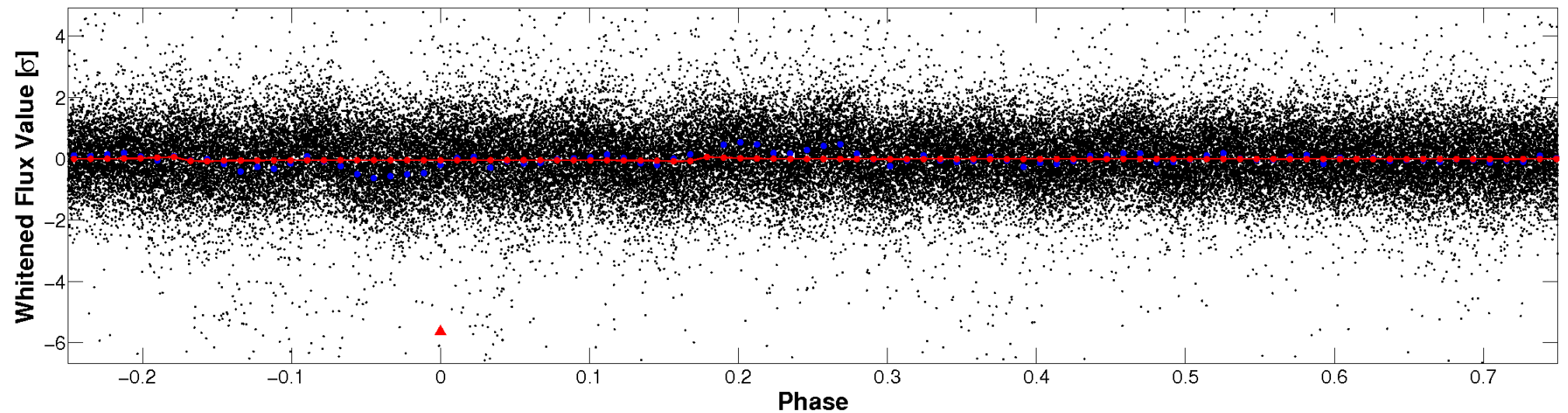


Non-Whitened Vs. Whitened Light Curve

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

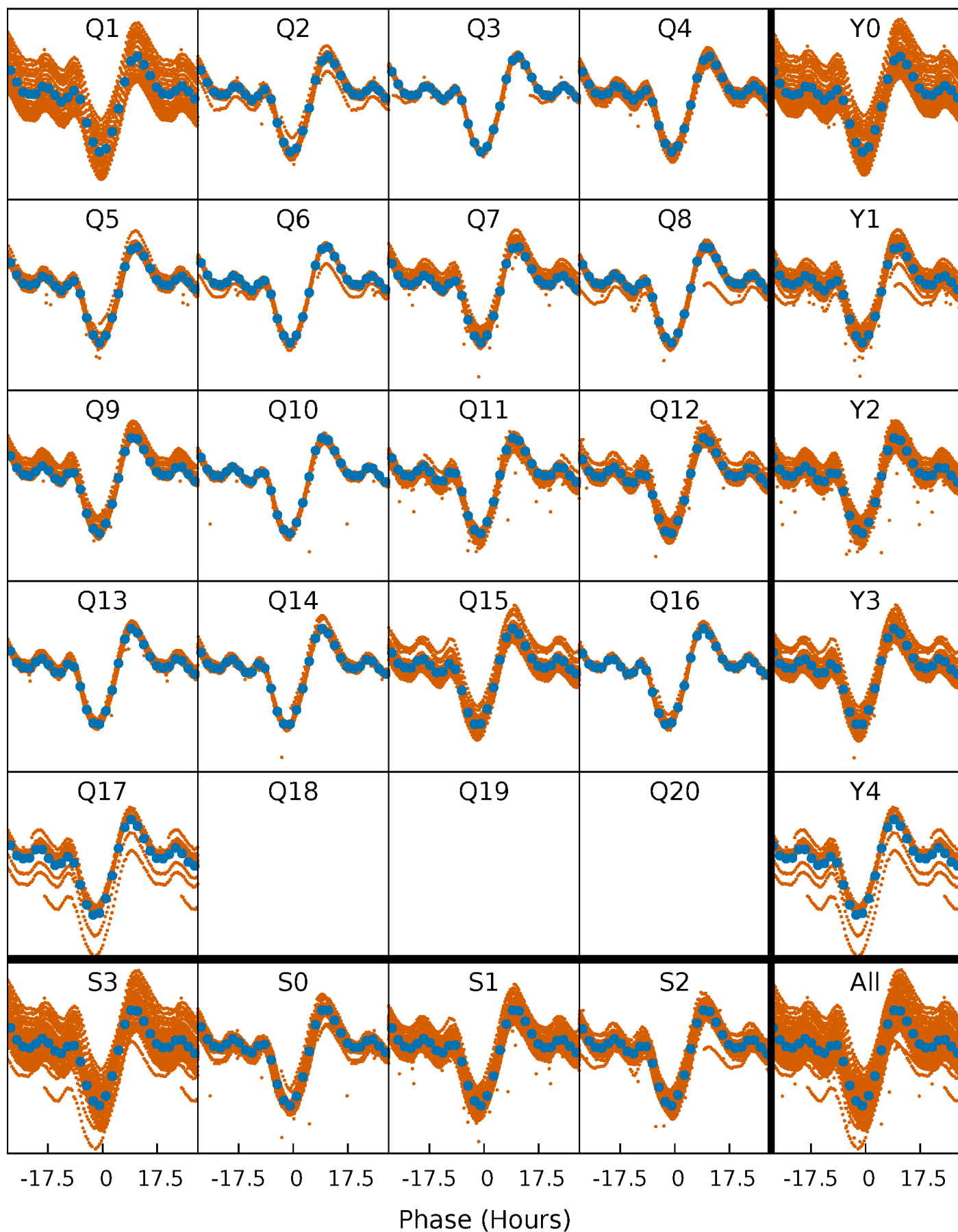


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



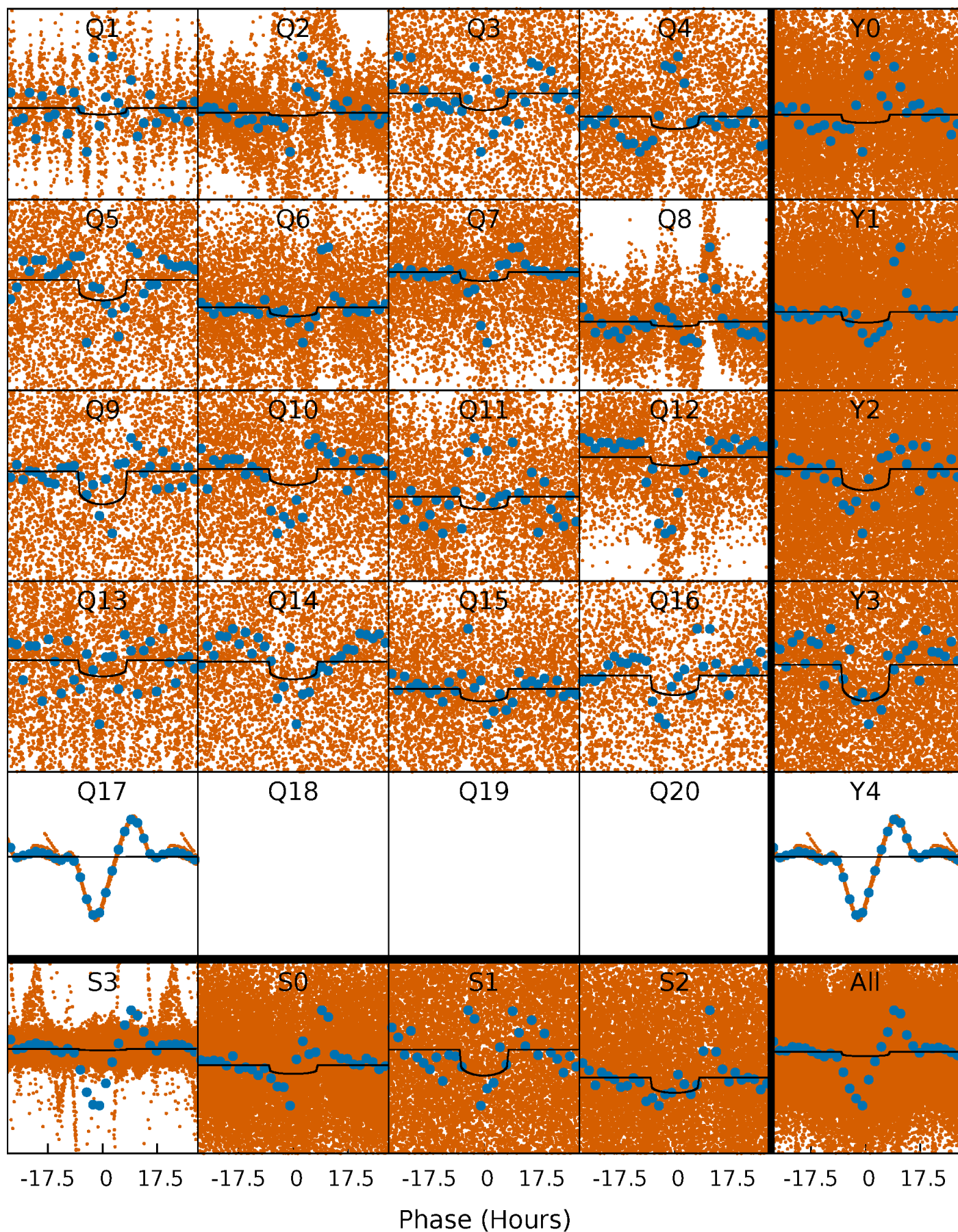
PDC Quarter-Phased Transit Curves

TCE 011560273-01 P= 1.827567 Days $T_0=132.862552$ (BKJD)



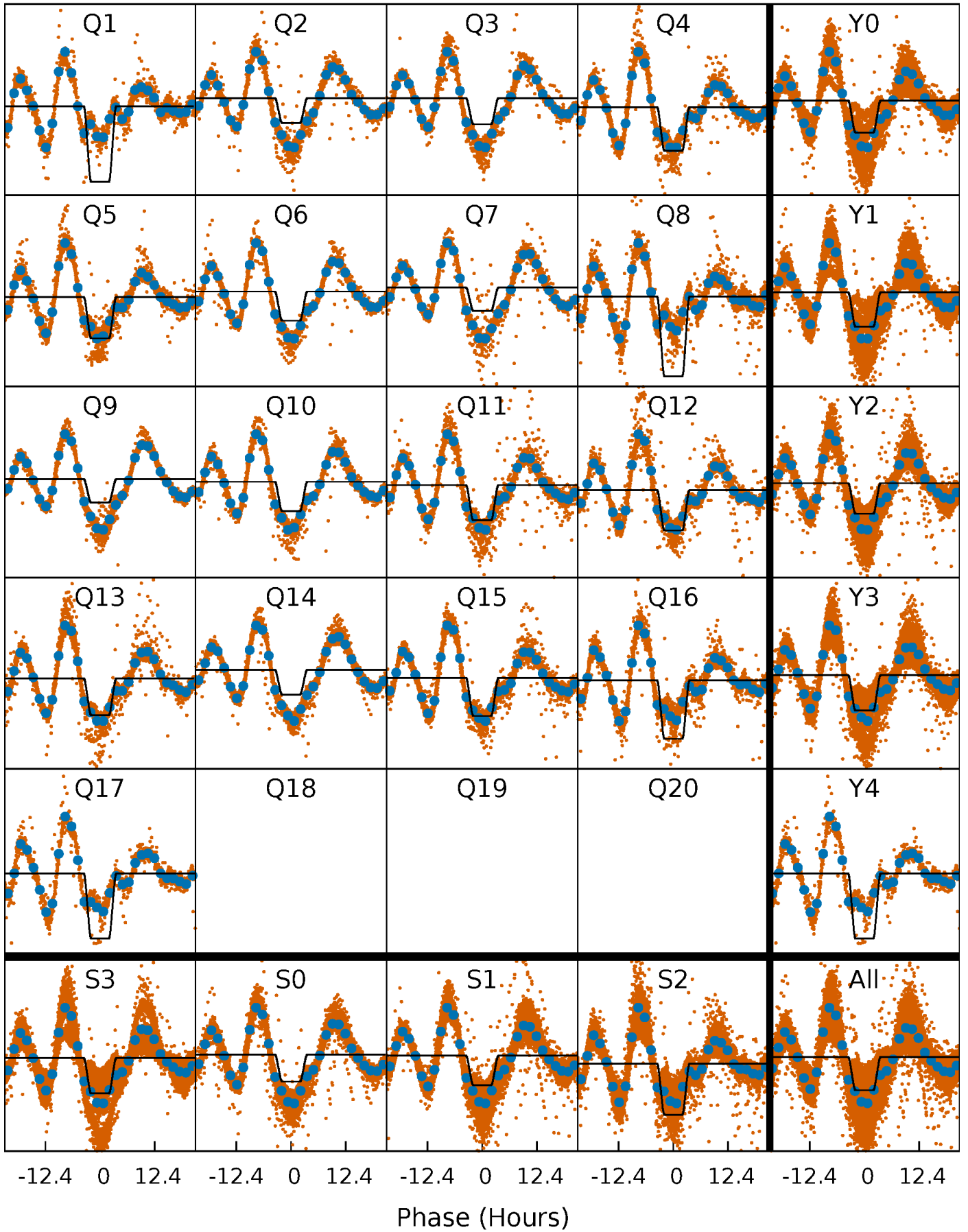
DV Quarter-Phased Transit Curves

TCE 011560273-01 P= 1.827567 Days $T_0=132.862552$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

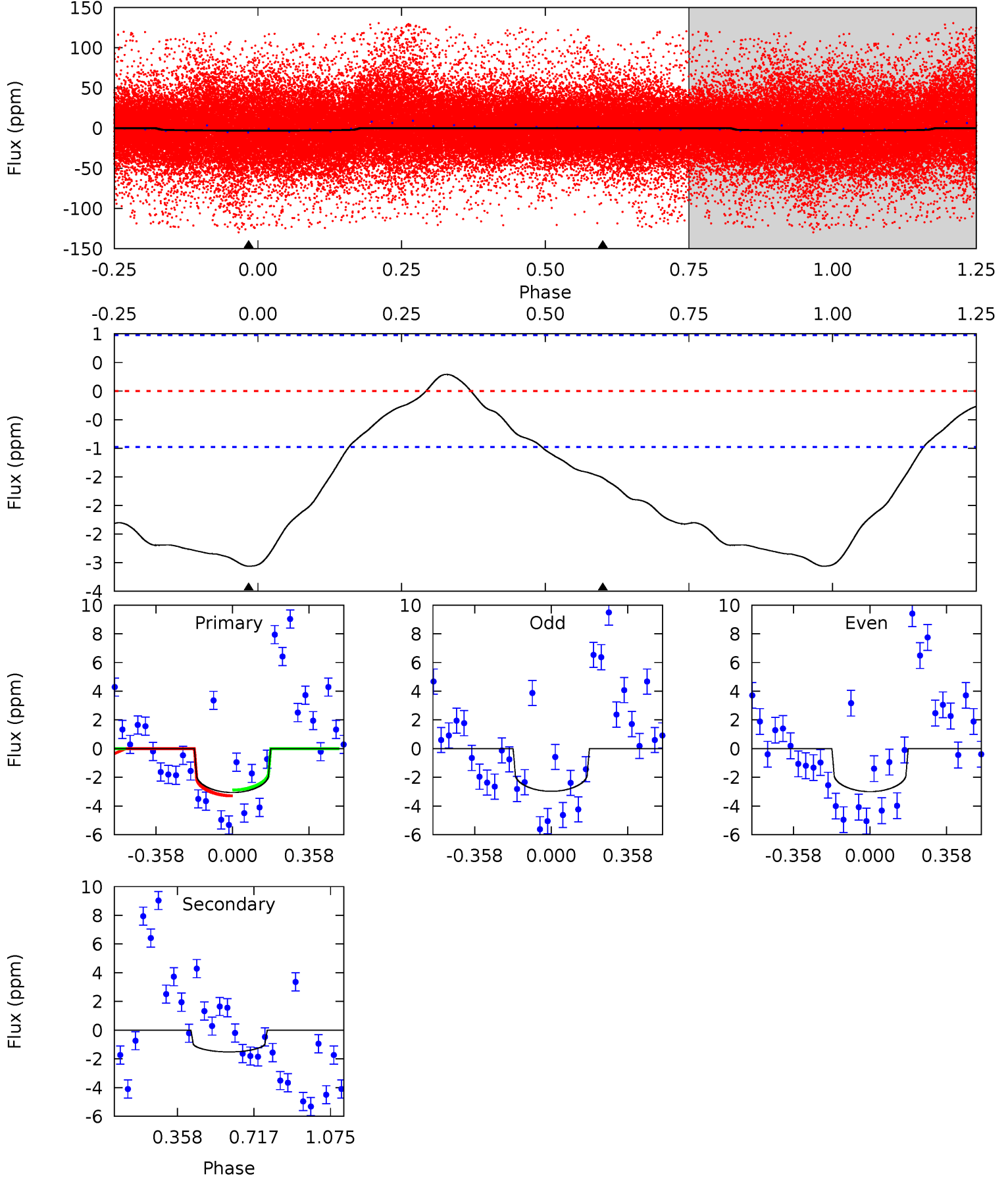
TCE 011560273-01 P= 1.827443 Days $T_0=132.849685$ (BKJD)



DV Model-Shift Uniqueness Test

011560273-01, P = 1.827567 Days, E = 131.034985 Days

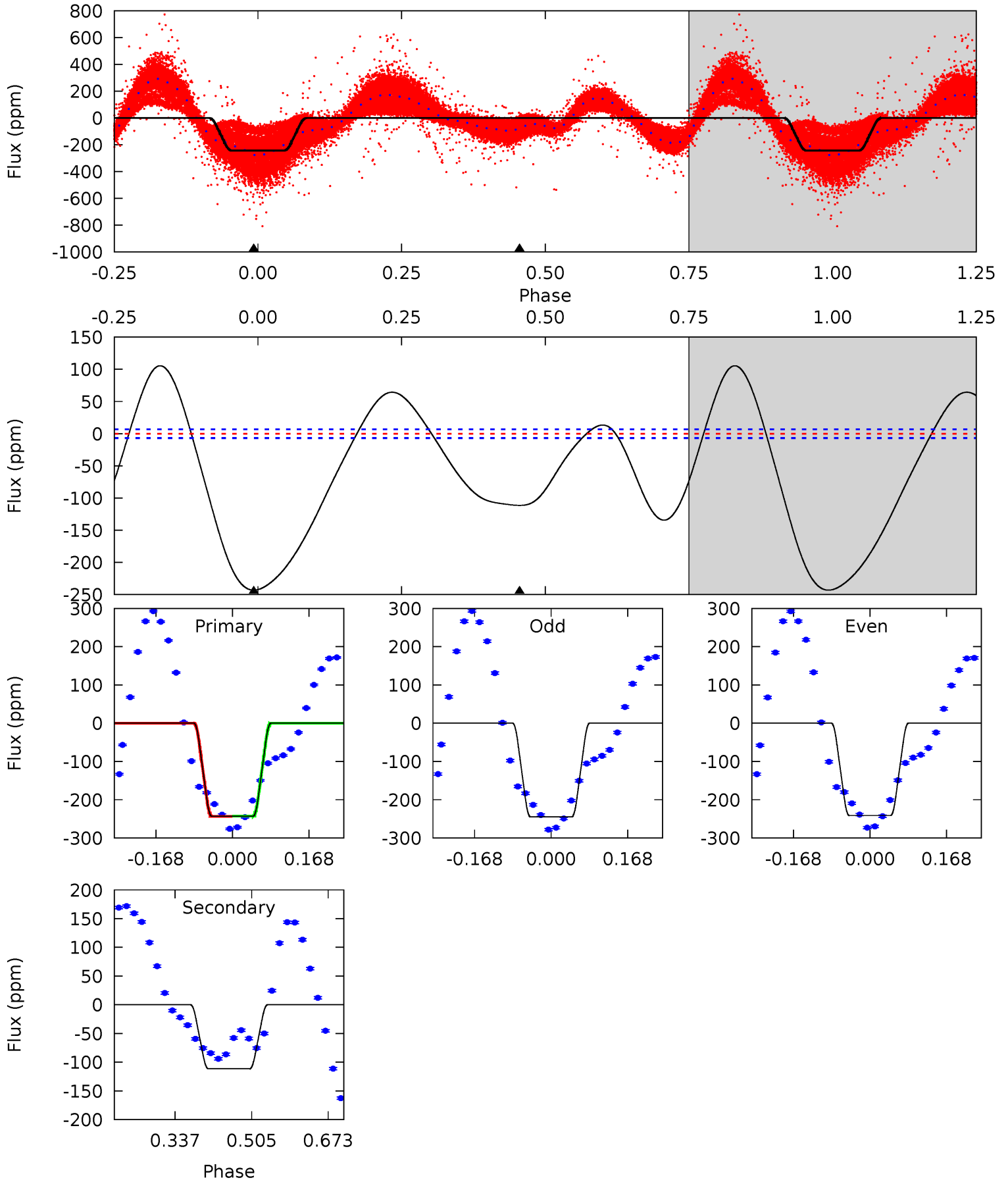
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.4	6.66	0	0	4.29	0.92	0.94	13.4	13.4	6.66	6.66	0.05	5.54	0.09	1.03



Alt Model-Shift Uniqueness Test

011560273-01, P = 1.827443 Days, E = 131.022242 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
159.0	72.9	0	0	4.45	1.38	47.4	159.0	159.0	72.9	72.9	1.16	1.03	0.30	0.18



Stellar Parameters For KIC 011560273

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	9225^{+251}_{-466}	$3.783^{+0.399}_{-0.171}$	$0.070^{+0.200}_{-0.700}$	$3.450^{+0.927}_{-1.590}$	$2.634^{+0.324}_{-0.972}$	$0.090^{+0.346}_{-0.045}$
	+3%/-5%	+11%/-5%	+286%/-1000%	+27%/-46%	+12%/-37%	+383%/-50%
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 011560273-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2 ± 0	$0.65^{+0.32}_{-0.25}$	5134^{+454}_{-650}	6746^{+2117}_{-1109}	$3.002^{+4.781}_{-1.576}$
Alt.	-111 ± 2	$5.07^{+0.86}_{-1.27}$	5128^{+447}_{-611}	7537^{+341}_{-368}	$3.948^{+2.393}_{-1.058}$

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 $A_{obs} \gg 1.0$

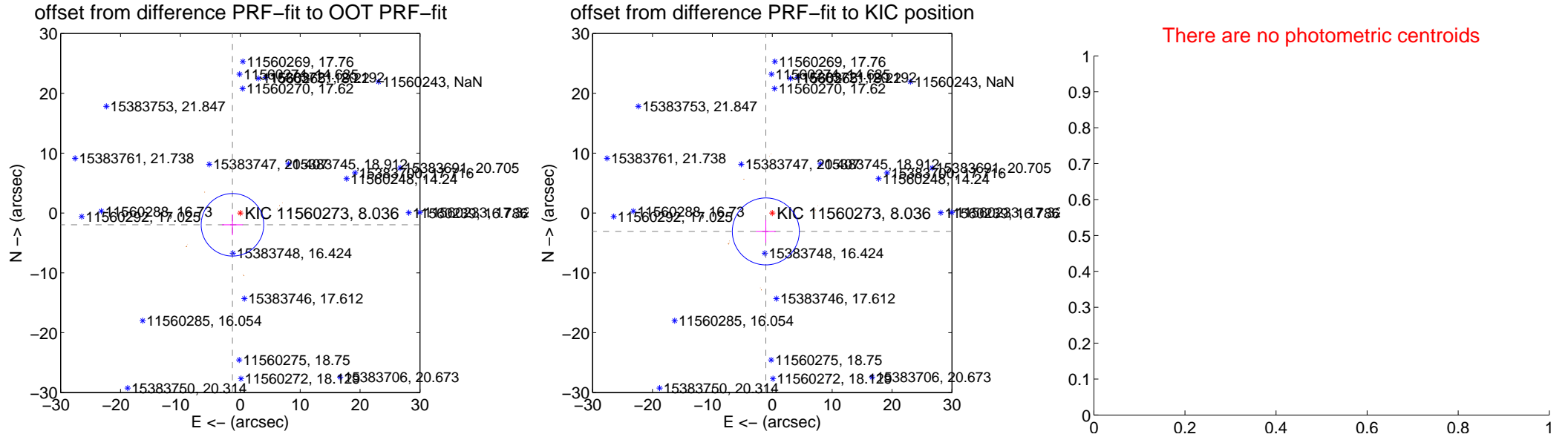
DV Centroid Data

Supplemental centroid analysis for 011560273-01. **Kepler magnitude: 8.04.** Transit SNR 8.77

There are 0 quarters with good PRF difference image offsets

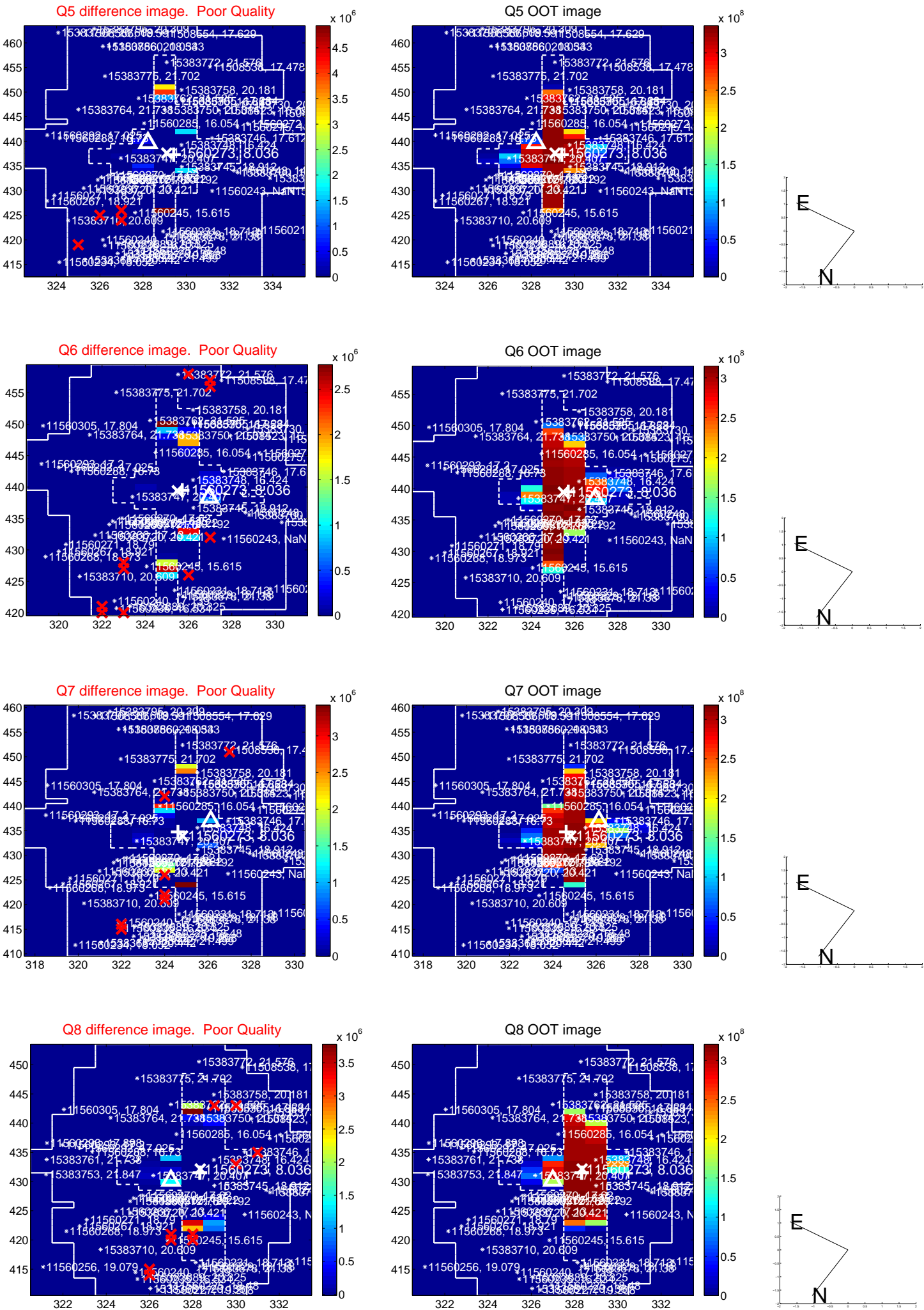
The direct PRF centroid is offset from the target star catalog position by about 1.72 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.363 ± 1.741	1.36	1.307 ± 1.734	-1.969 ± 1.745
PRF-fit source offset from KIC position	3.259 ± 1.865	1.75	1.074 ± 1.652	-3.077 ± 1.889
photometric centroid source offset	—	—	—	—

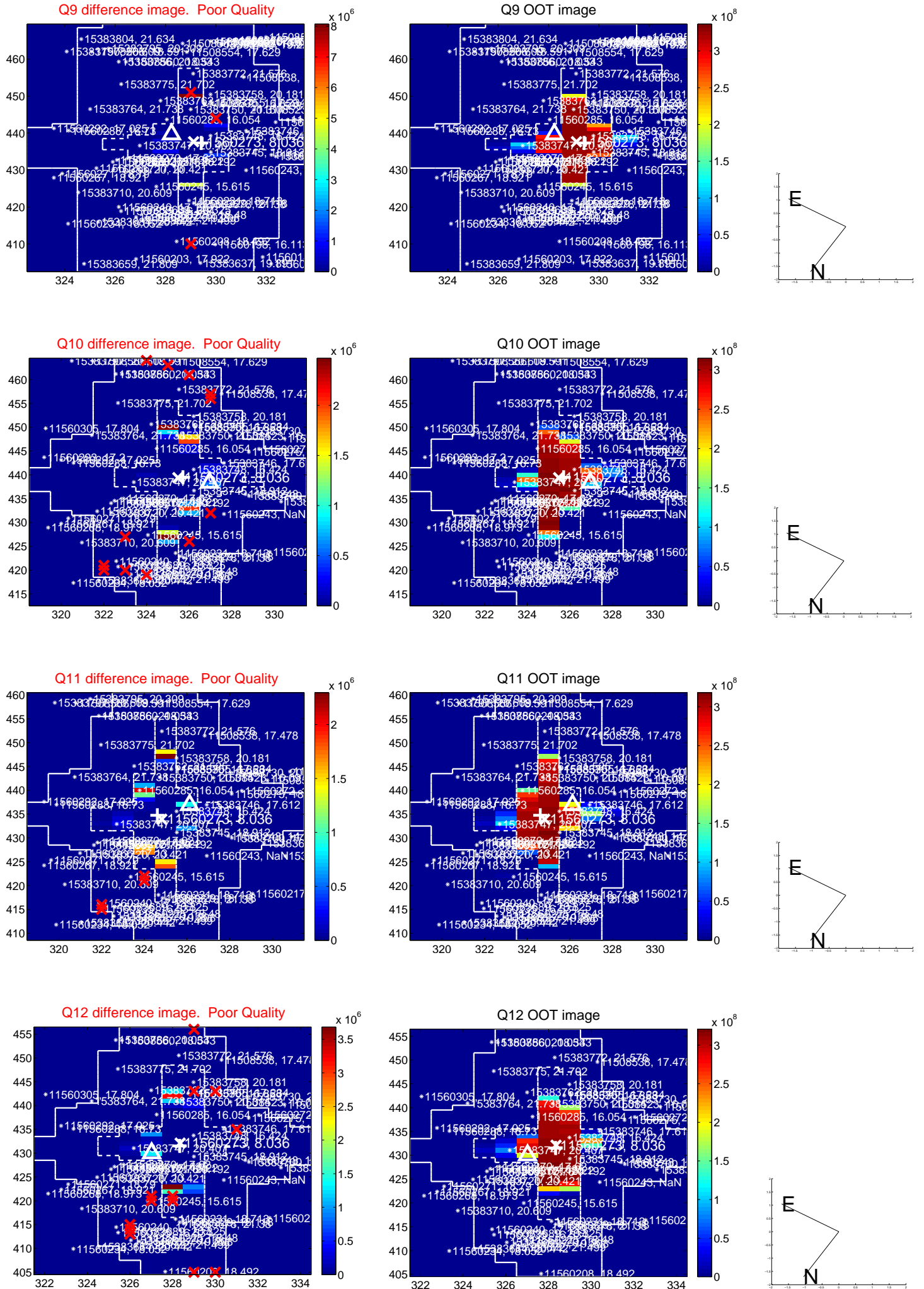


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

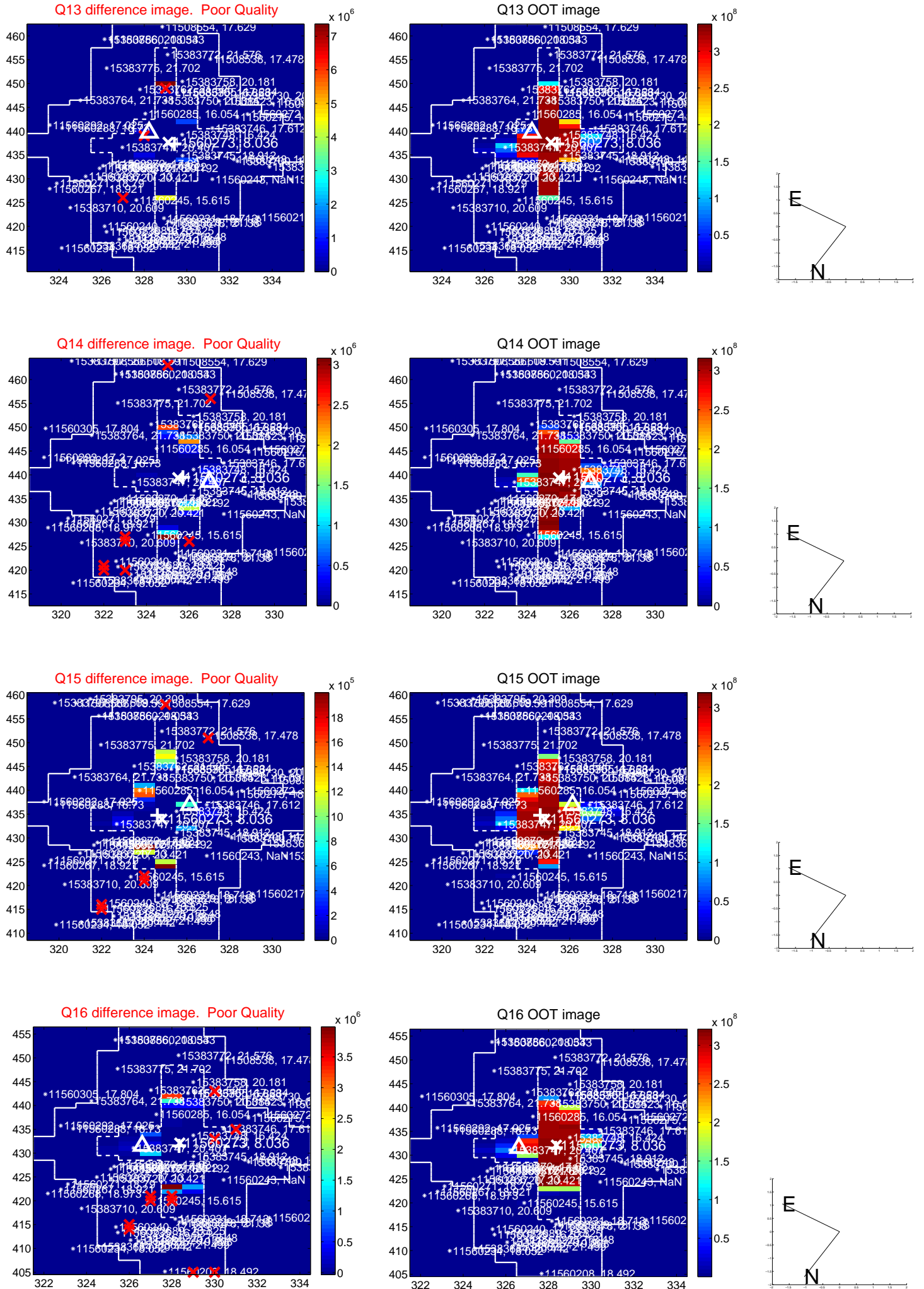
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



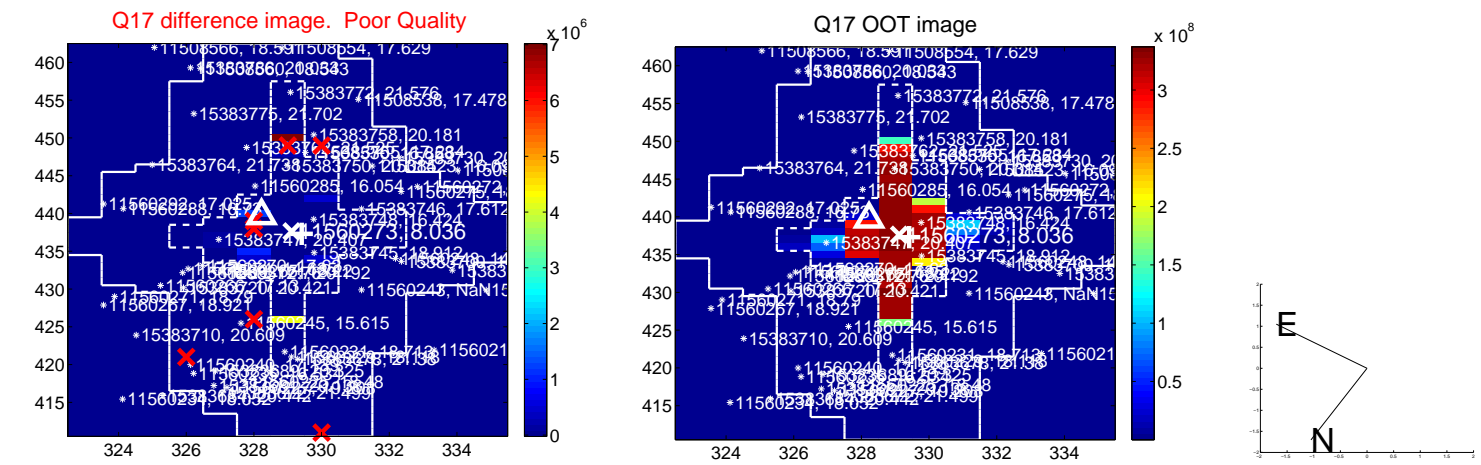
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

