

KIC 006266750

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})
006266750-01	OBS	No	1.102561	131.775613	100.6	12.615	8.9	15.1	2.23	8404	2.70	32001.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006266750-01	OBS	FP	0.00	1	0	0	0	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.

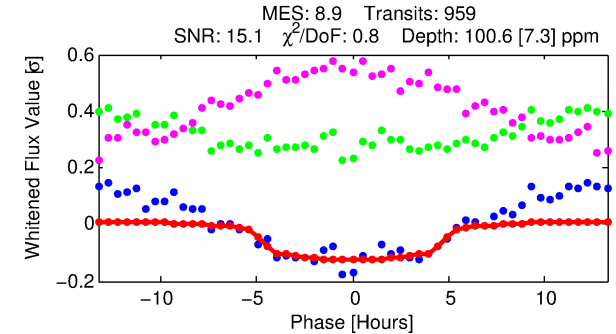
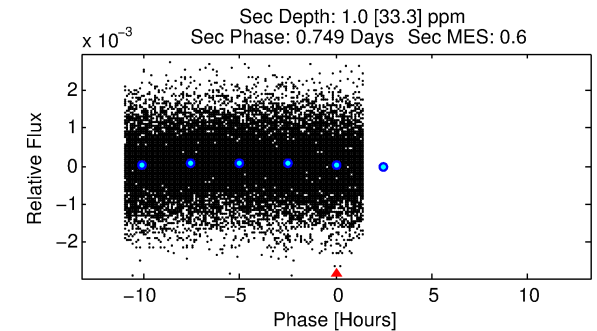
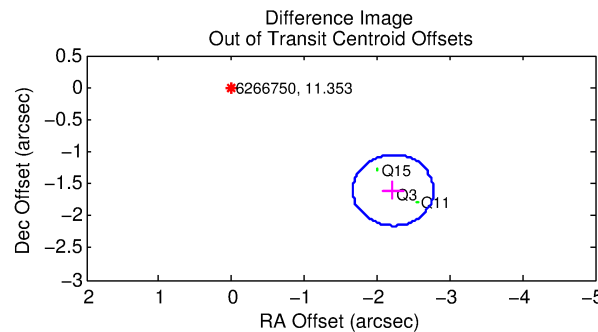
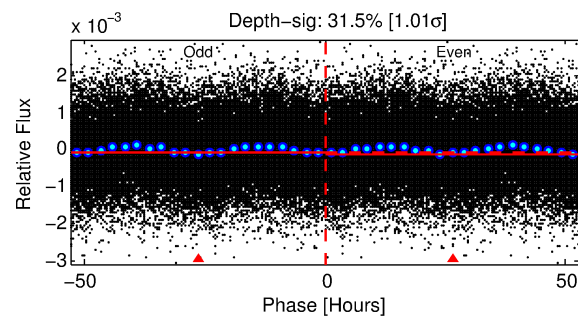
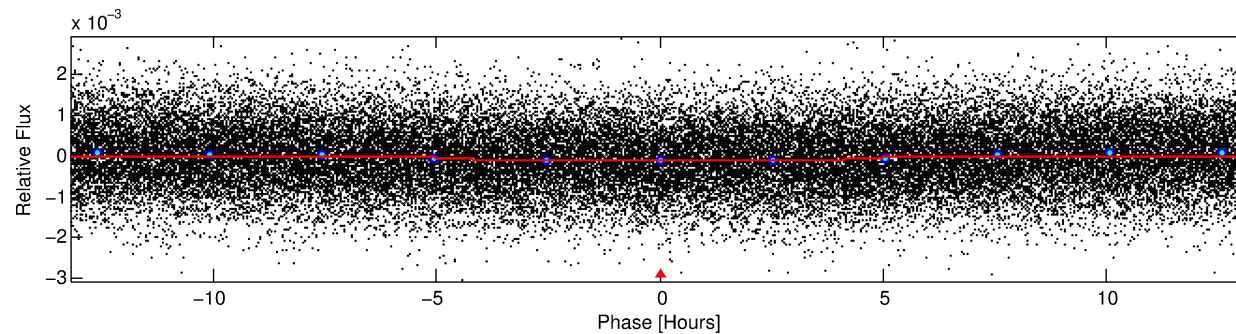
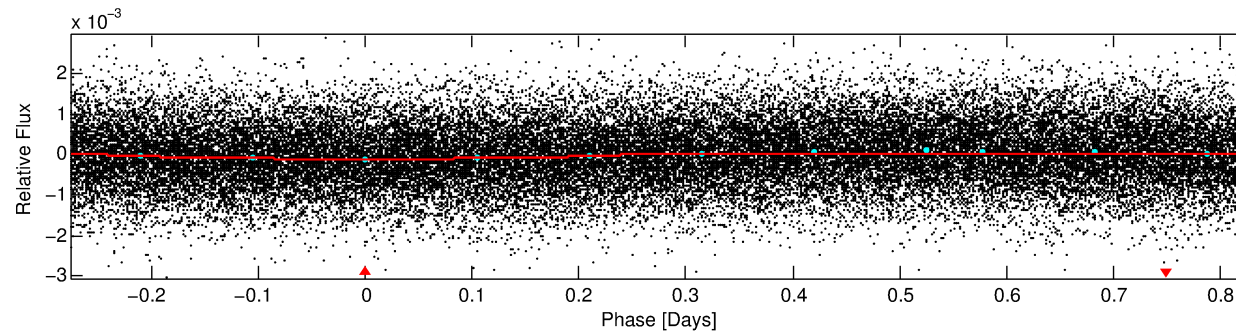
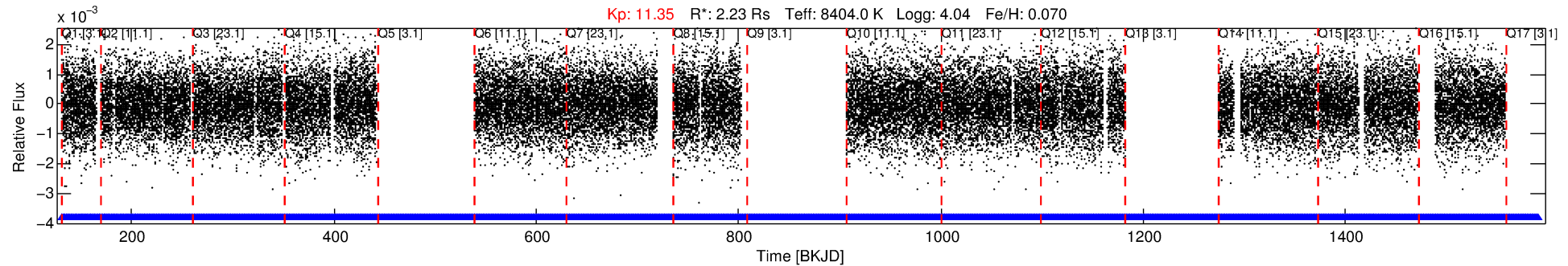
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006266750-01

No Significant Match Found

DV One-Page Summary

KIC: 6266750 Candidate: 1 of 1 Period: 1.103 d



DV Fit Results:

Period = 1.10256 [0.00002] d
Epoch = 131.7756 [0.0119] BKJD
Rp/R* = 0.0111 [0.0006]
a/R* = 1.01 [0.01]
b = 0.94 [0.03]
Seff = 32001.59 [11040.58]
Teq = 3411 [294] K
Rp = 2.70 [0.72] Re
a = 0.0264 [0.0055] AU
Ag = 0.05 [1.75] [-0.54 σ]
Teff = 2499 [21622] K [-0.04 σ]

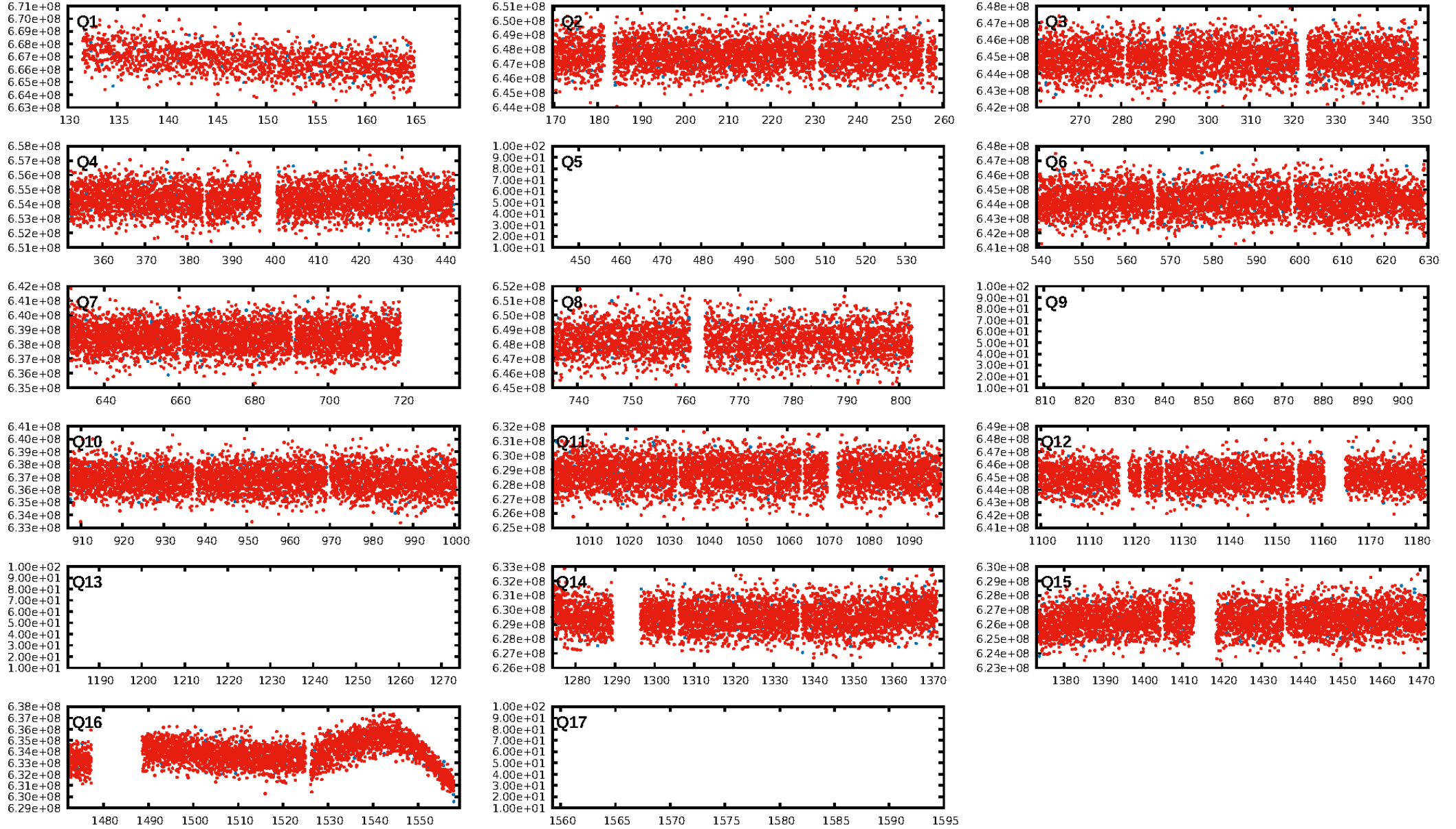
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [928/928]
GhostDiagnostic-chr: 1.821
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 2.737 arcsec [14.82 σ]
KicOffset-rm: 2.639 arcsec [12.66 σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [13/13]

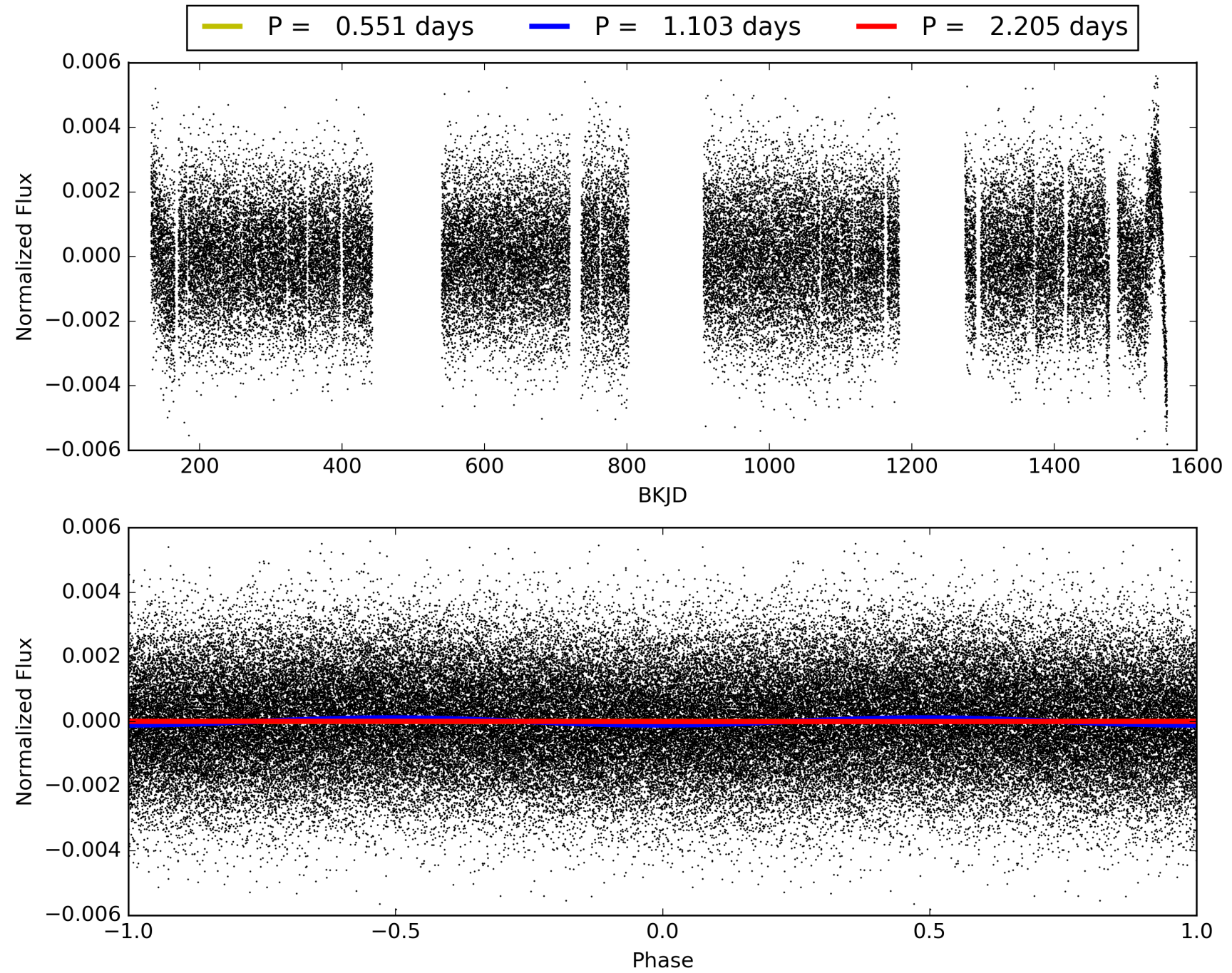
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 10:12:28 Z

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

TCE 006266750-01, PDC Light Curves

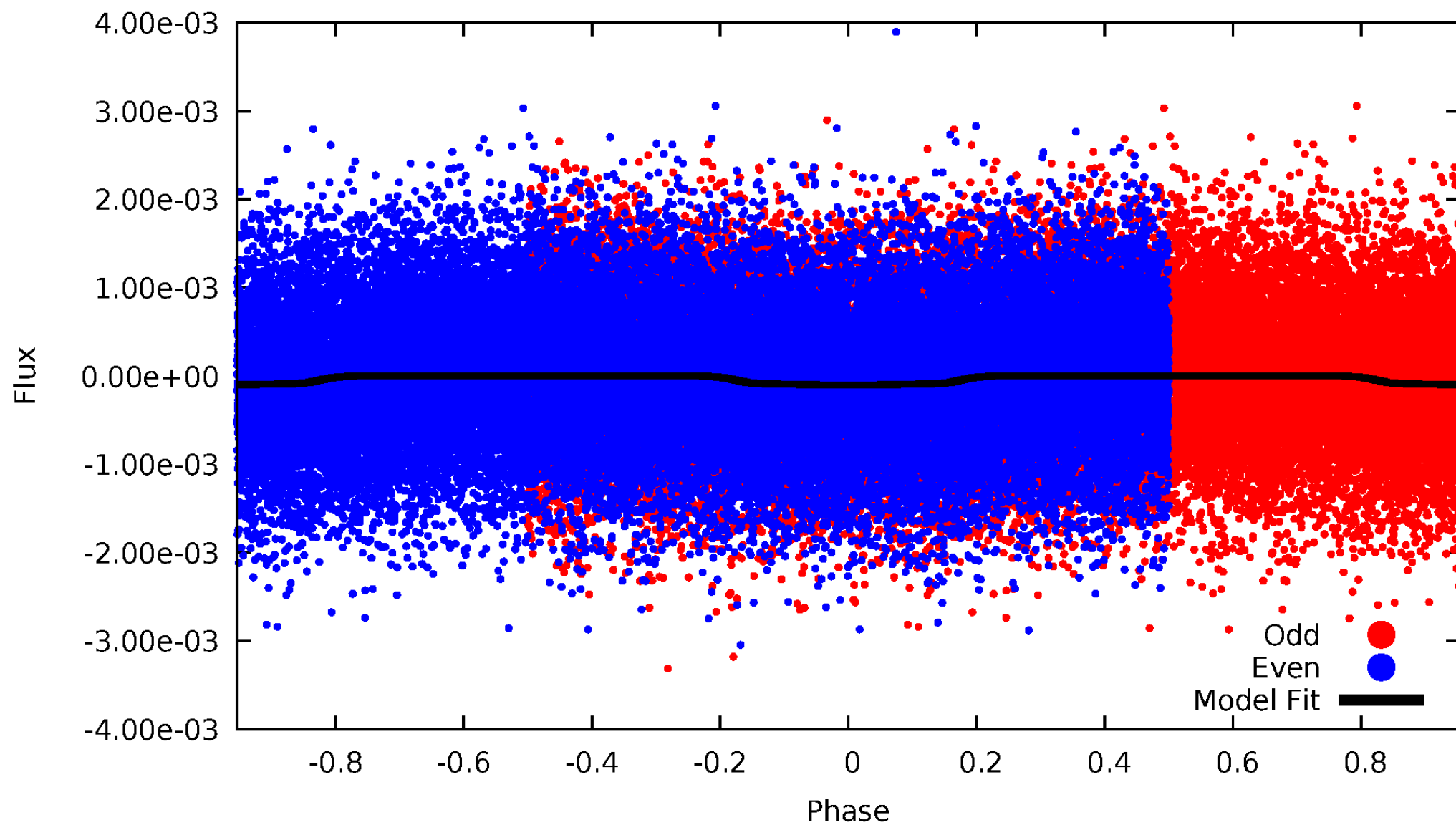


TCE 006266750-01



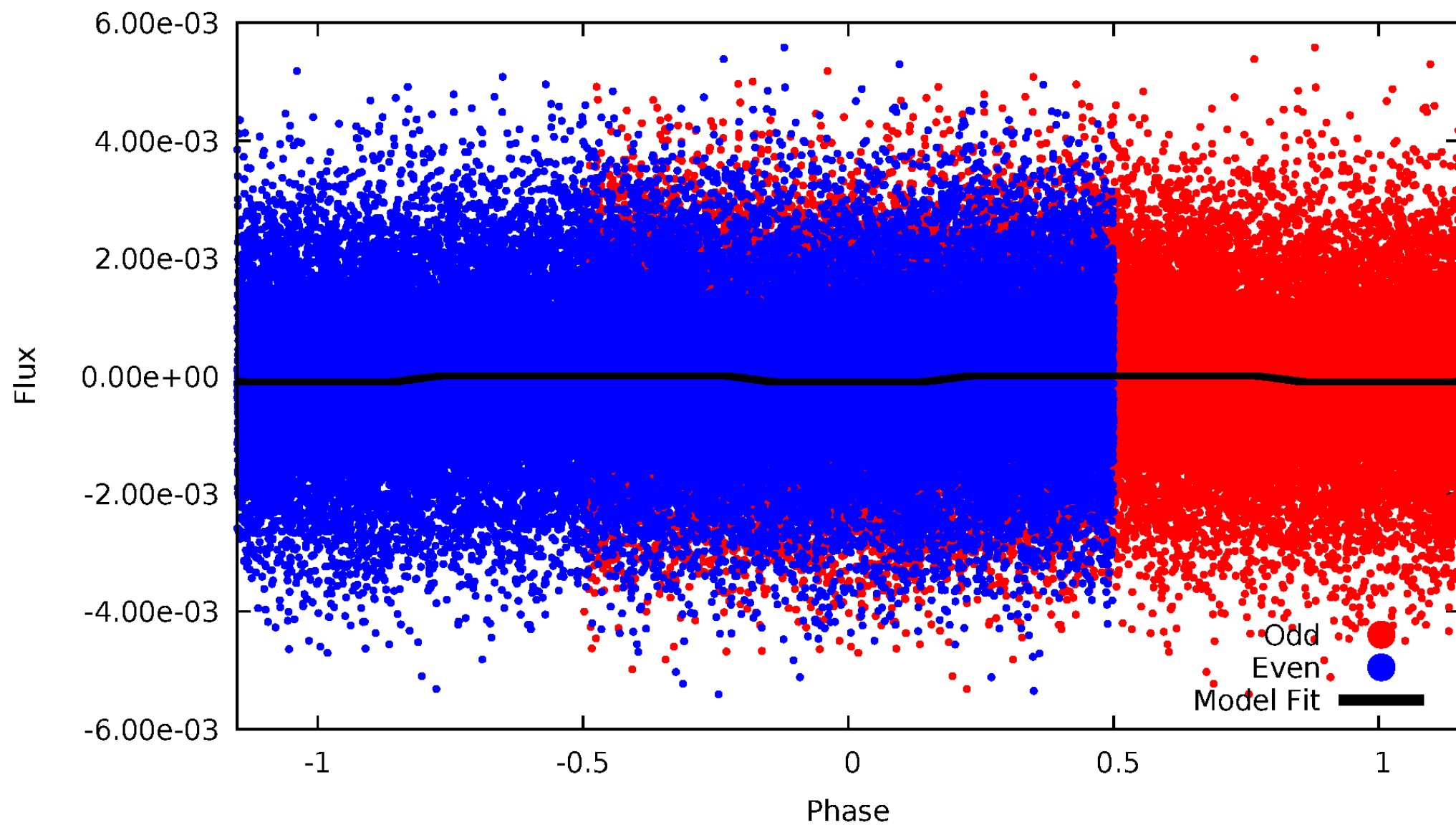
DV Odd/Even

TCE 006266750-01



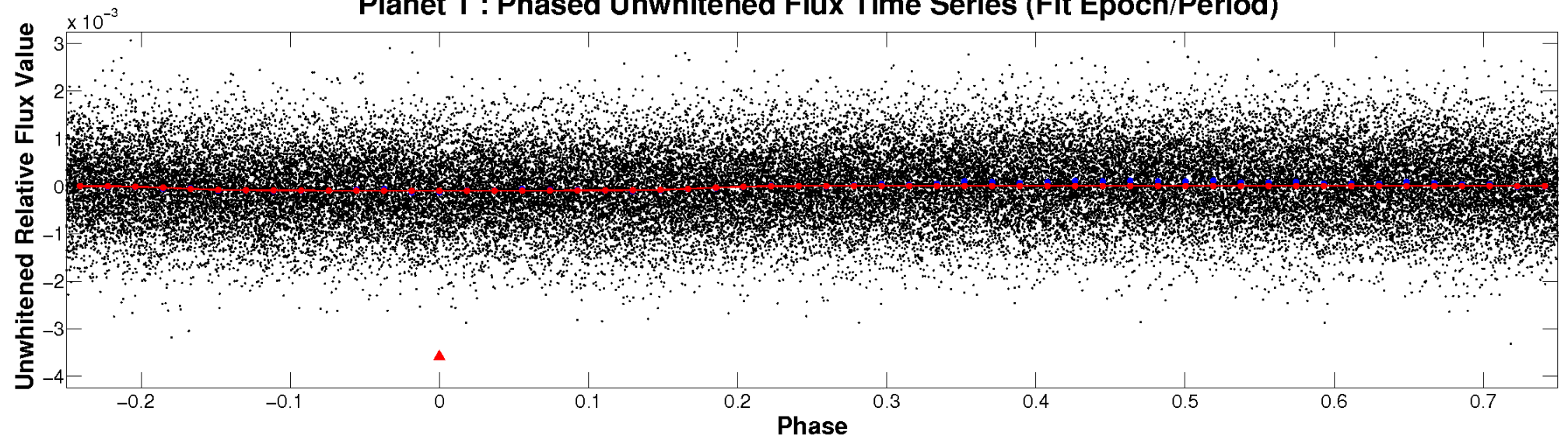
ALT Odd/Even

TCE 006266750-01

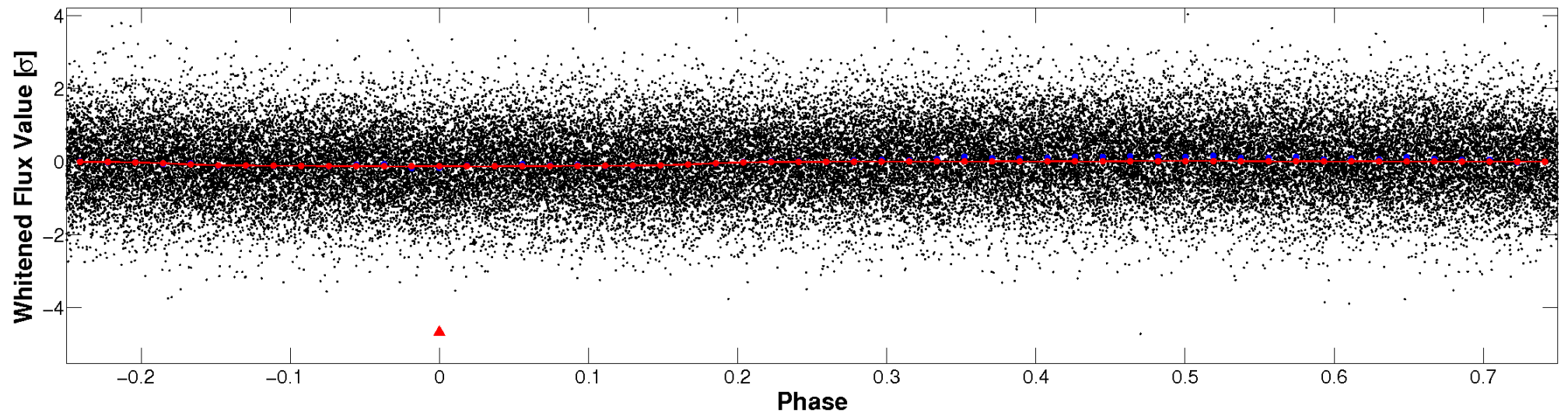


Non-Whitened Vs. Whitened Light Curve

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

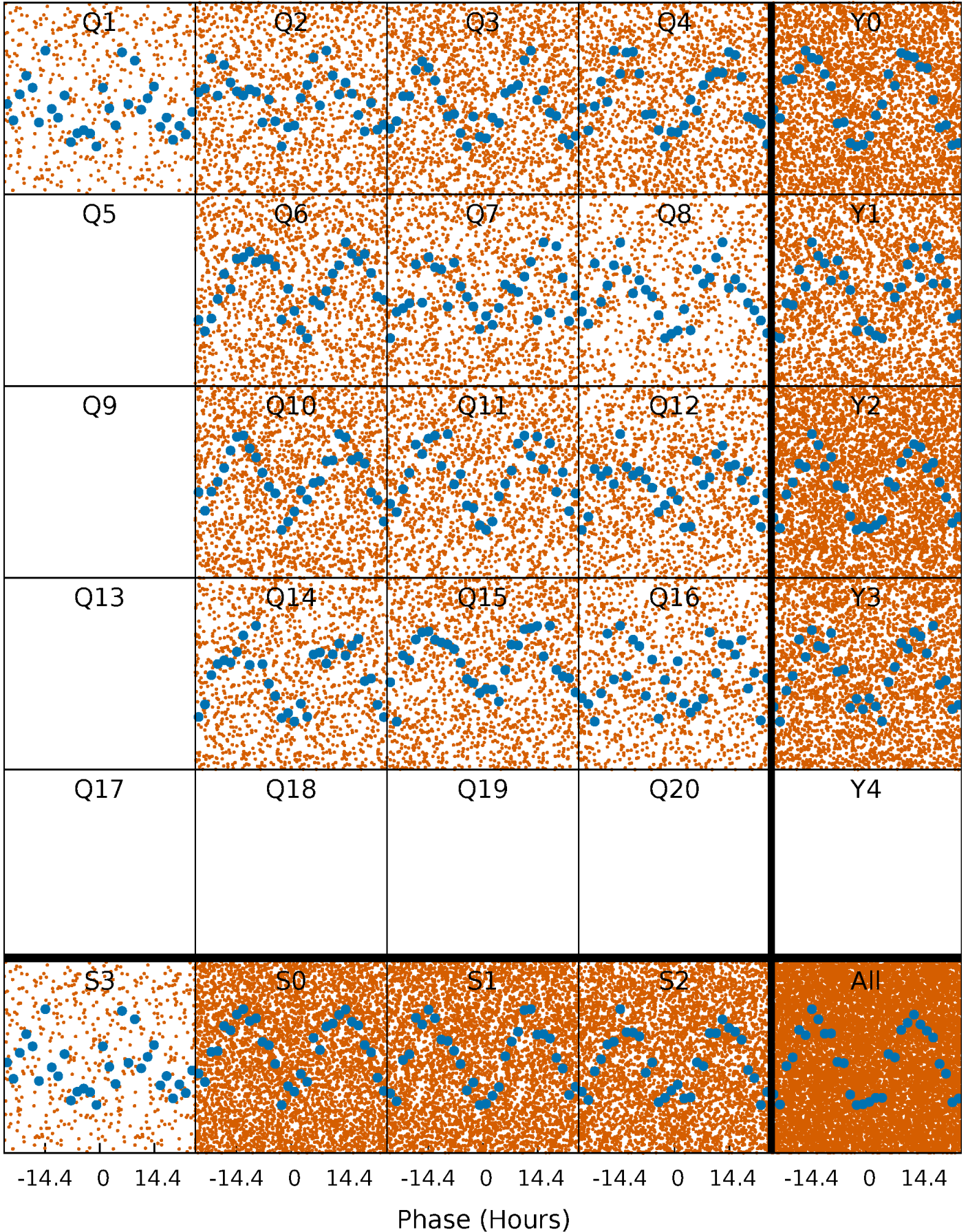


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



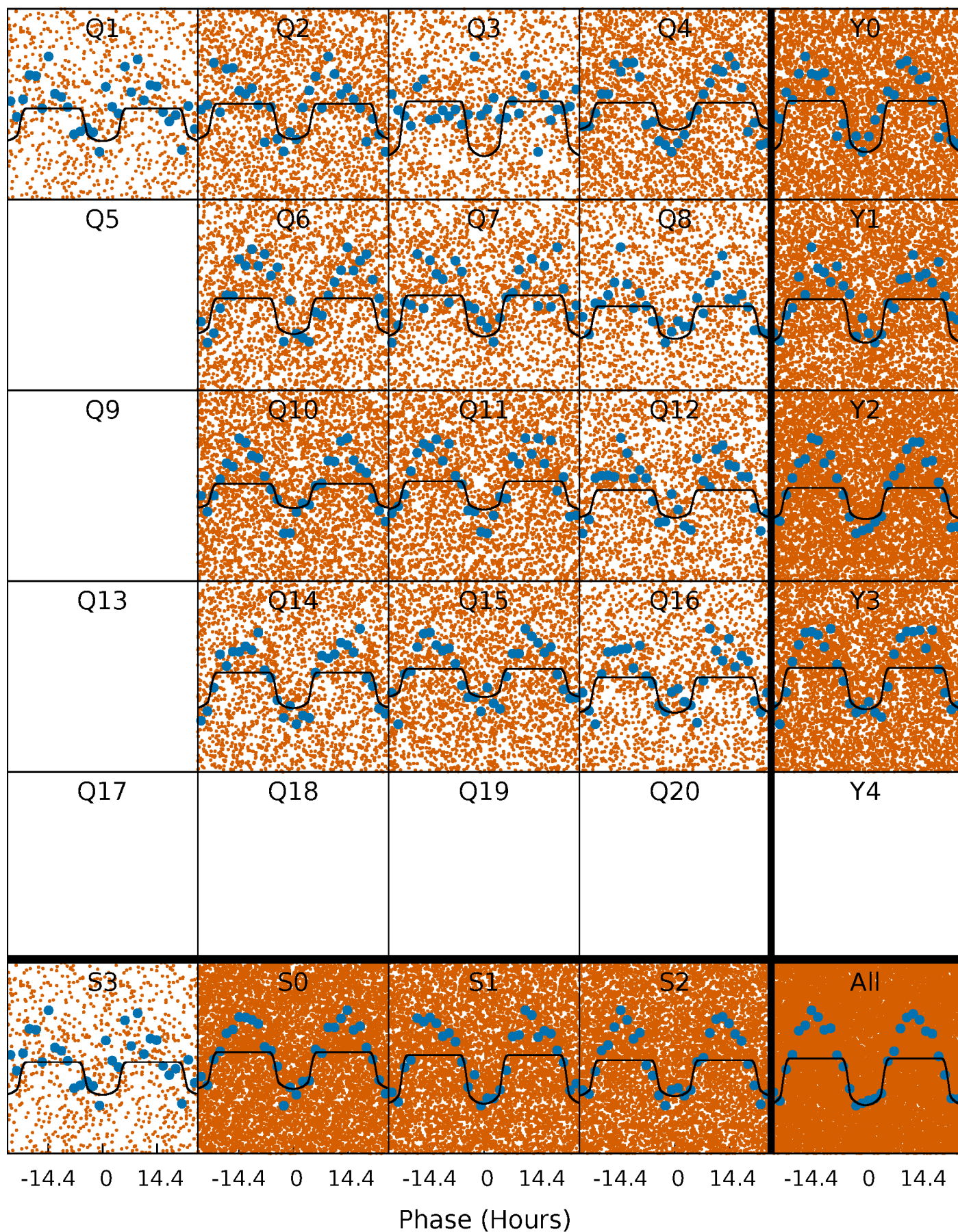
PDC Quarter-Phased Transit Curves

TCE 006266750-01 P= 1.102561 Days $T_0=131.775613$ (BKJD)



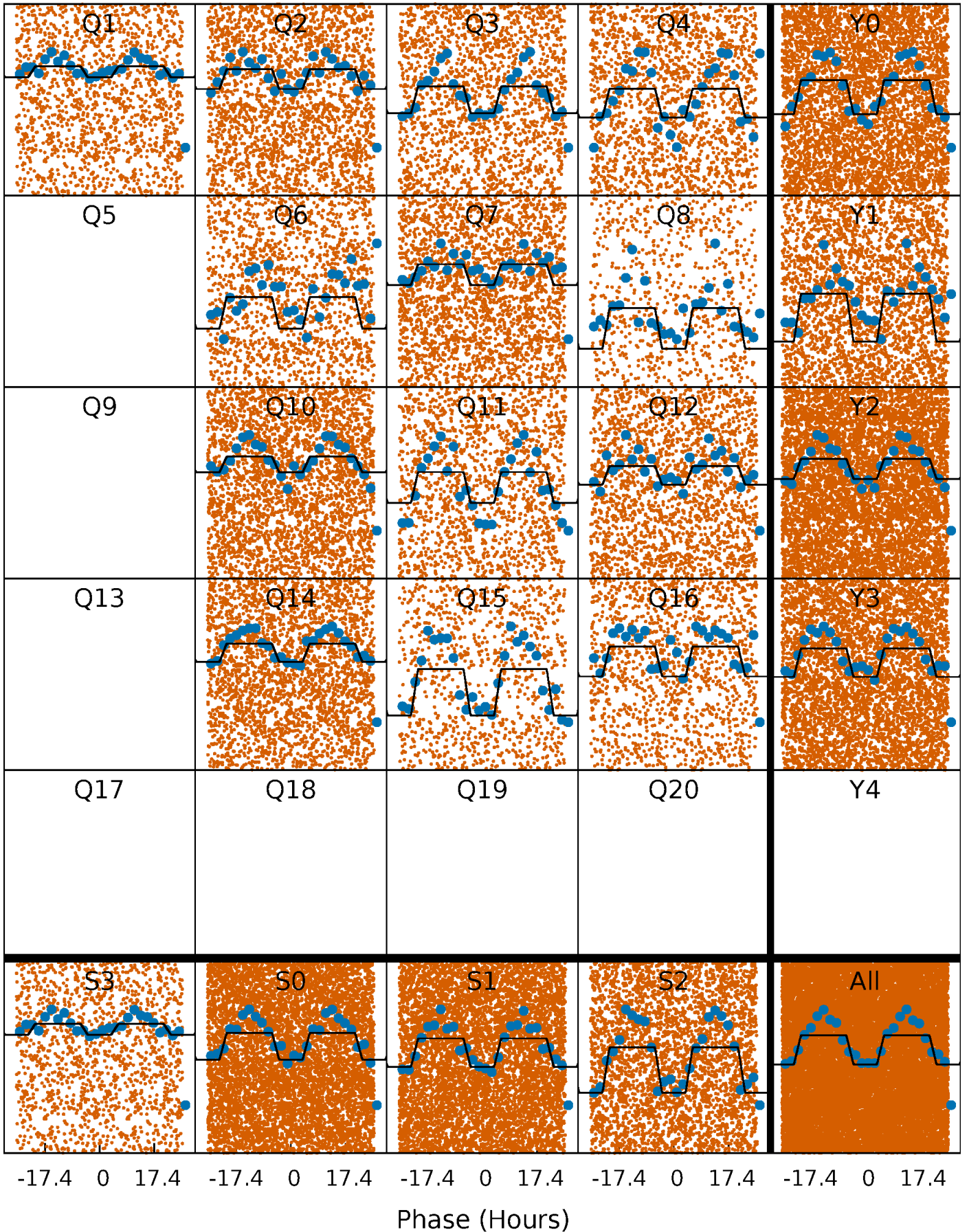
DV Quarter-Phased Transit Curves

TCE 006266750-01 P= 1.102561 Days $T_0=131.775613$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

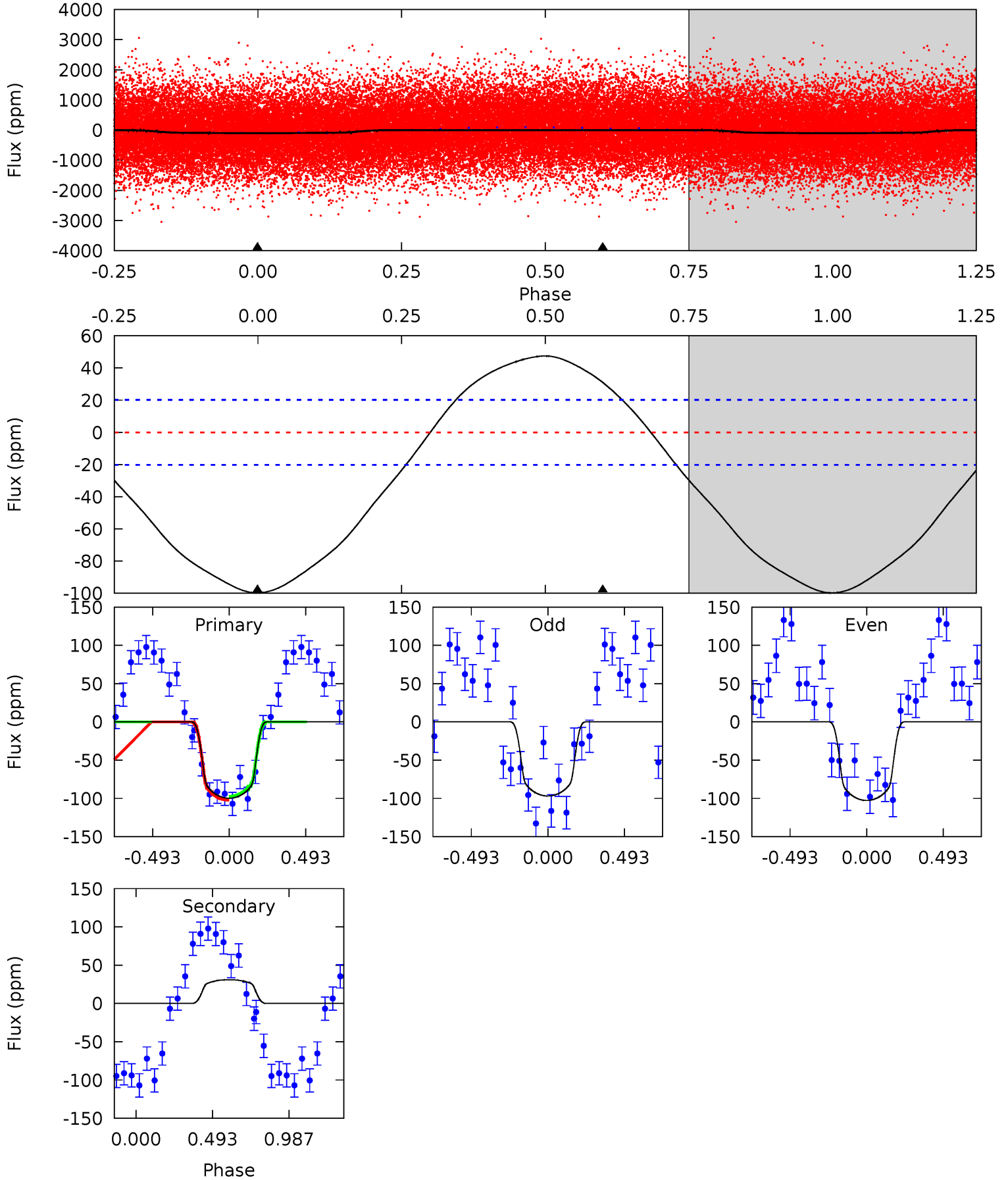
TCE 006266750-01 P= 1.102709 Days $T_0=131.669284$ (BKJD)



DV Model-Shift Uniqueness Test

006266750-01, P = 1.102561 Days, E = 130.673052 Days

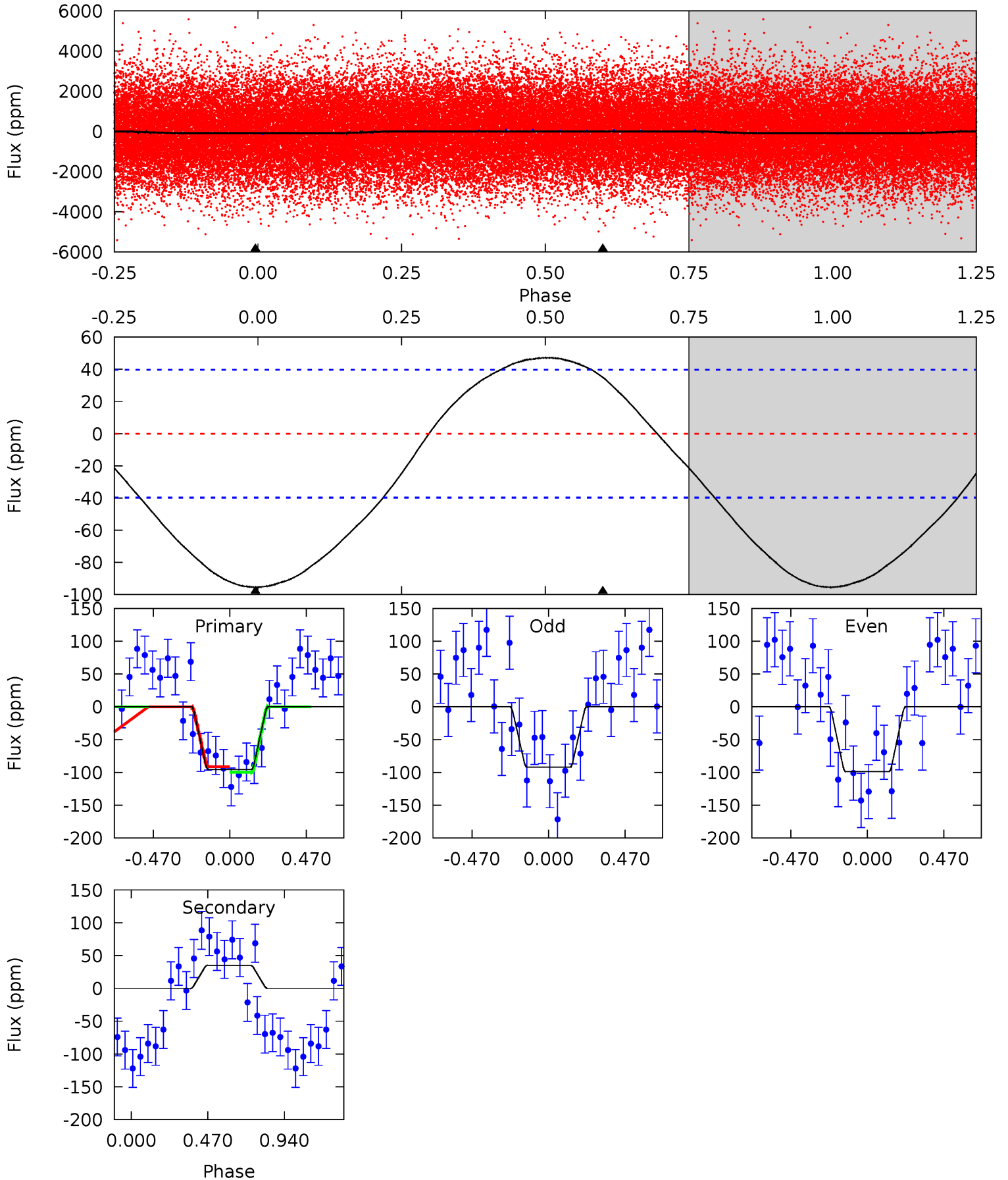
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.8	-6.48	0	0	4.22	0.68	2.89	20.8	20.8	-6.48	-6.48	0.61	0.80	0.32	0.50



Alt Model-Shift Uniqueness Test

006266750-01, P = 1.102709 Days, E = 130.566575 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	-3.72	0	0	4.23	0.72	1.50	10.2	10.2	-3.72	-3.72	0.37	0.88	0.33	0.46



Stellar Parameters For KIC 006266750

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8404^{+231}_{-396}	$4.044^{+0.150}_{-0.150}$	$0.070^{+0.300}_{-0.450}$	$2.230^{+0.584}_{-0.531}$	$2.008^{+0.330}_{-0.404}$	$0.255^{+0.237}_{-0.106}$
	+3%/-5%	+4%/-4%	+429%/-643%	+26%/-24%	+16%/-20%	+93%/-42%
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 006266750-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	31 ± 5	$2.71^{+0.40}_{-0.37}$	4717^{+348}_{-311}	-5938^{+280}_{-303}	$-1.603^{+0.412}_{-0.615}$
Alt.	35 ± 9	$2.45^{+0.36}_{-0.31}$	4729^{+356}_{-317}	-6366^{+463}_{-465}	$-2.170^{+0.699}_{-0.934}$

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

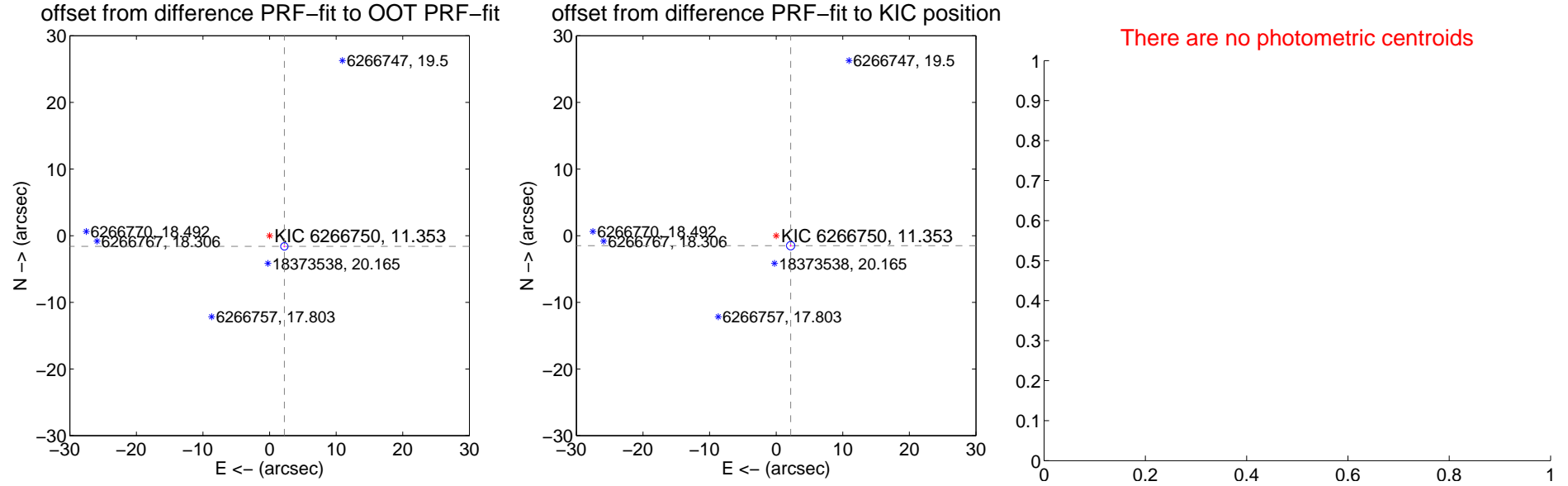
DV Centroid Data

Supplemental centroid analysis for 006266750-01. **Kepler magnitude: 11.35.** Transit SNR 15.09

There are 0 quarters with good PRF difference image offsets

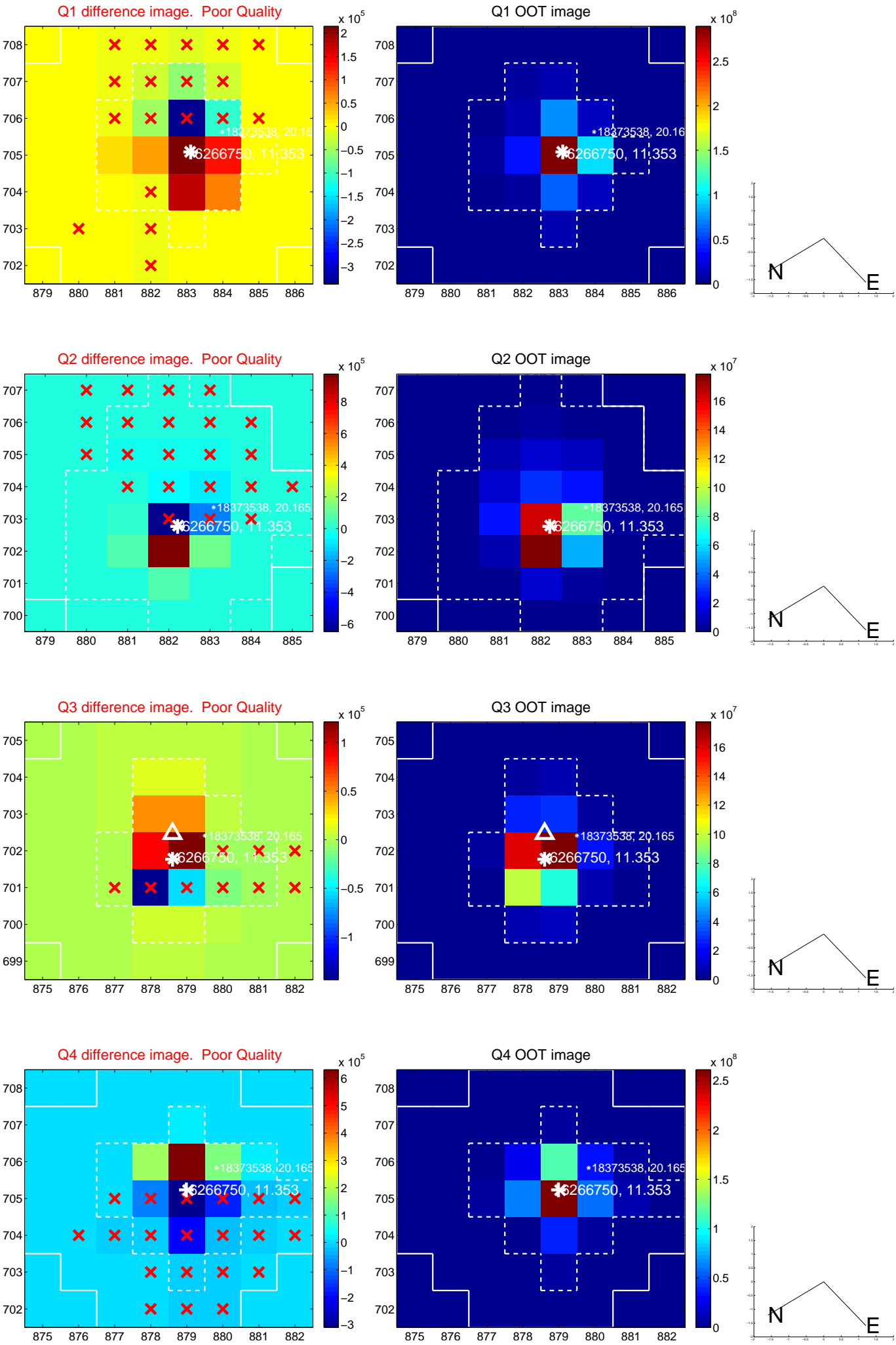
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.737 ± 0.185	14.82	-2.220 ± 0.150	-1.602 ± 0.132
PRF-fit source offset from KIC position	2.639 ± 0.208	12.66	-2.172 ± 0.166	-1.499 ± 0.145
photometric centroid source offset	—	—	—	—

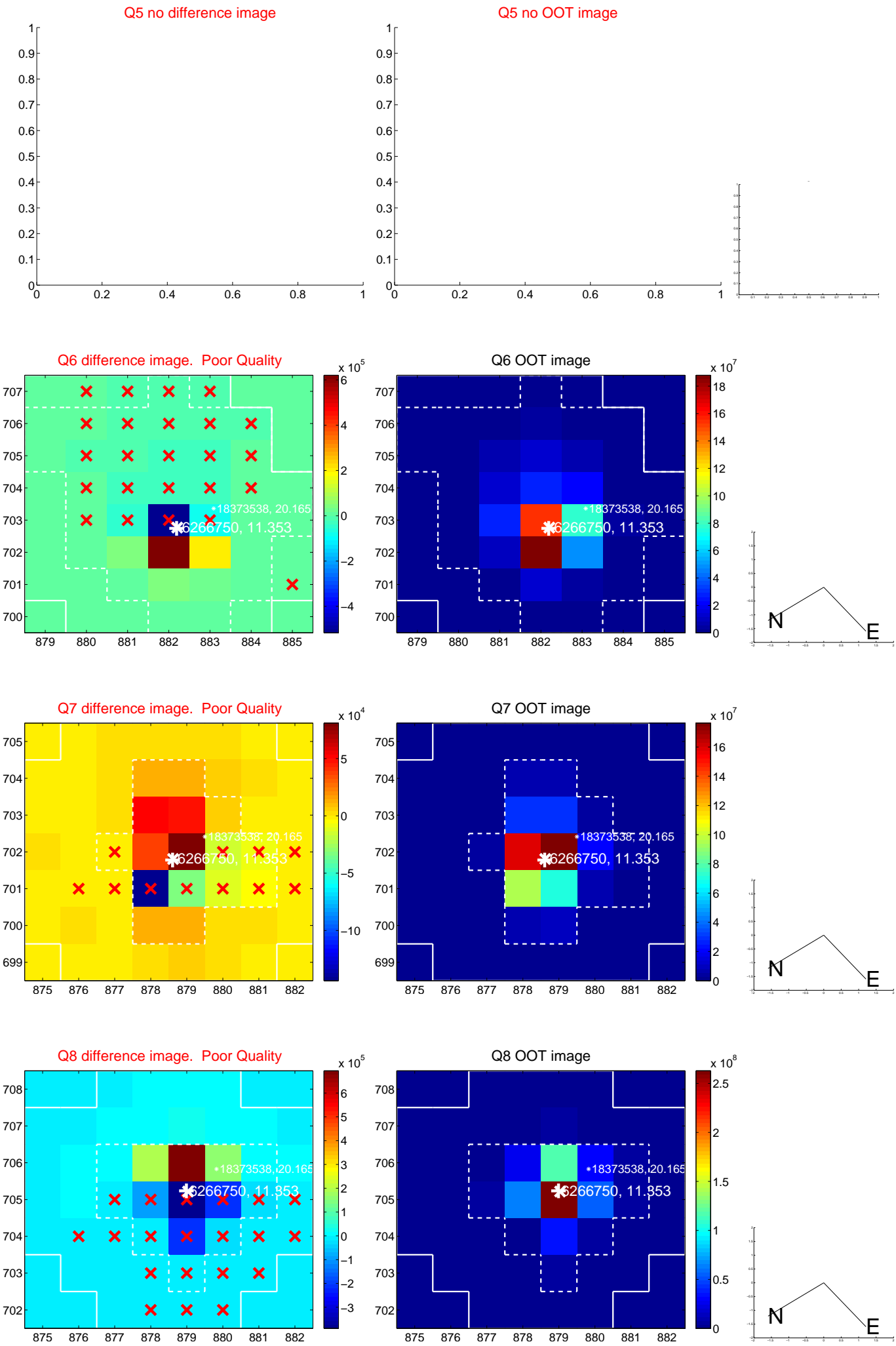


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

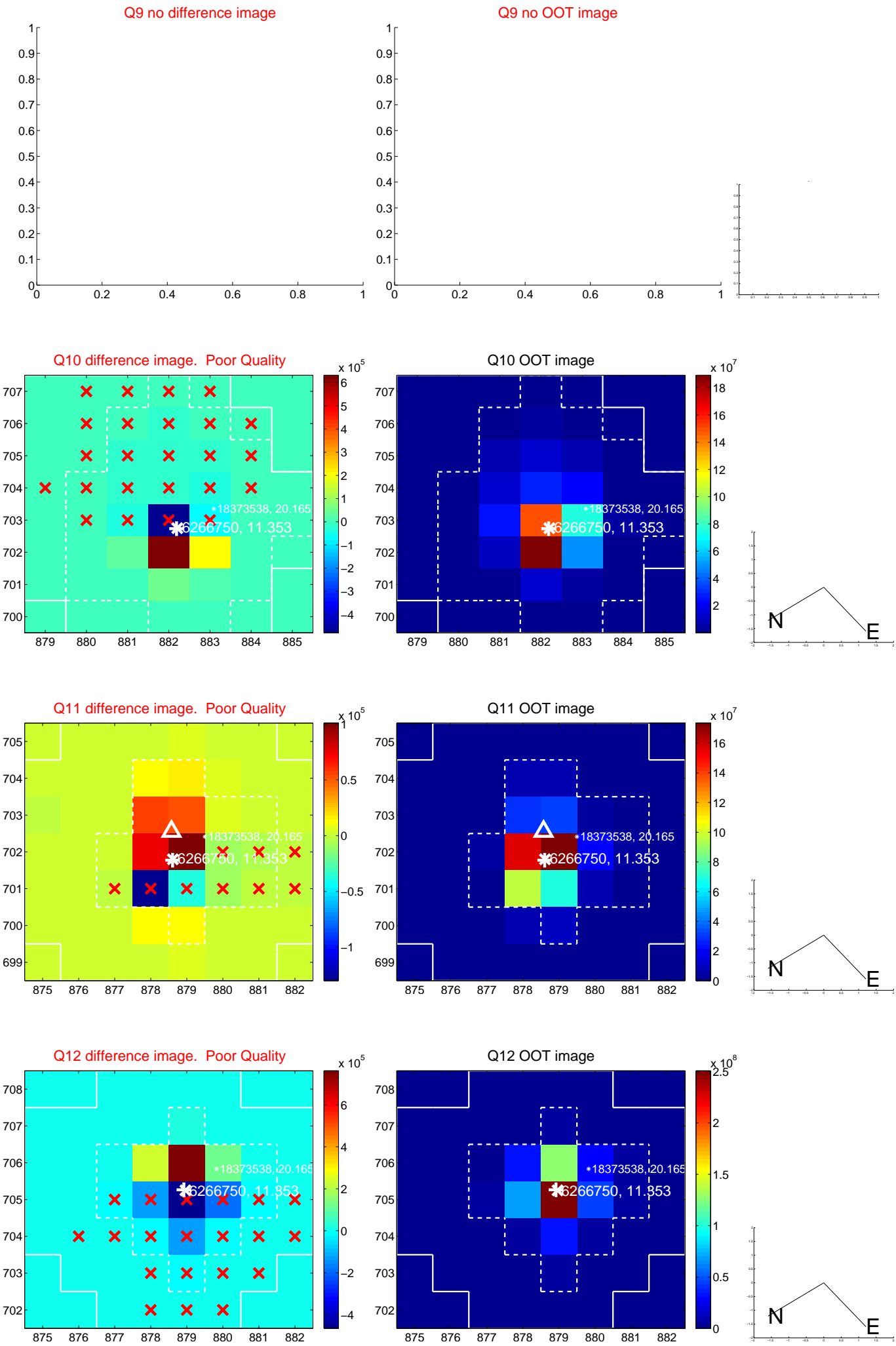
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



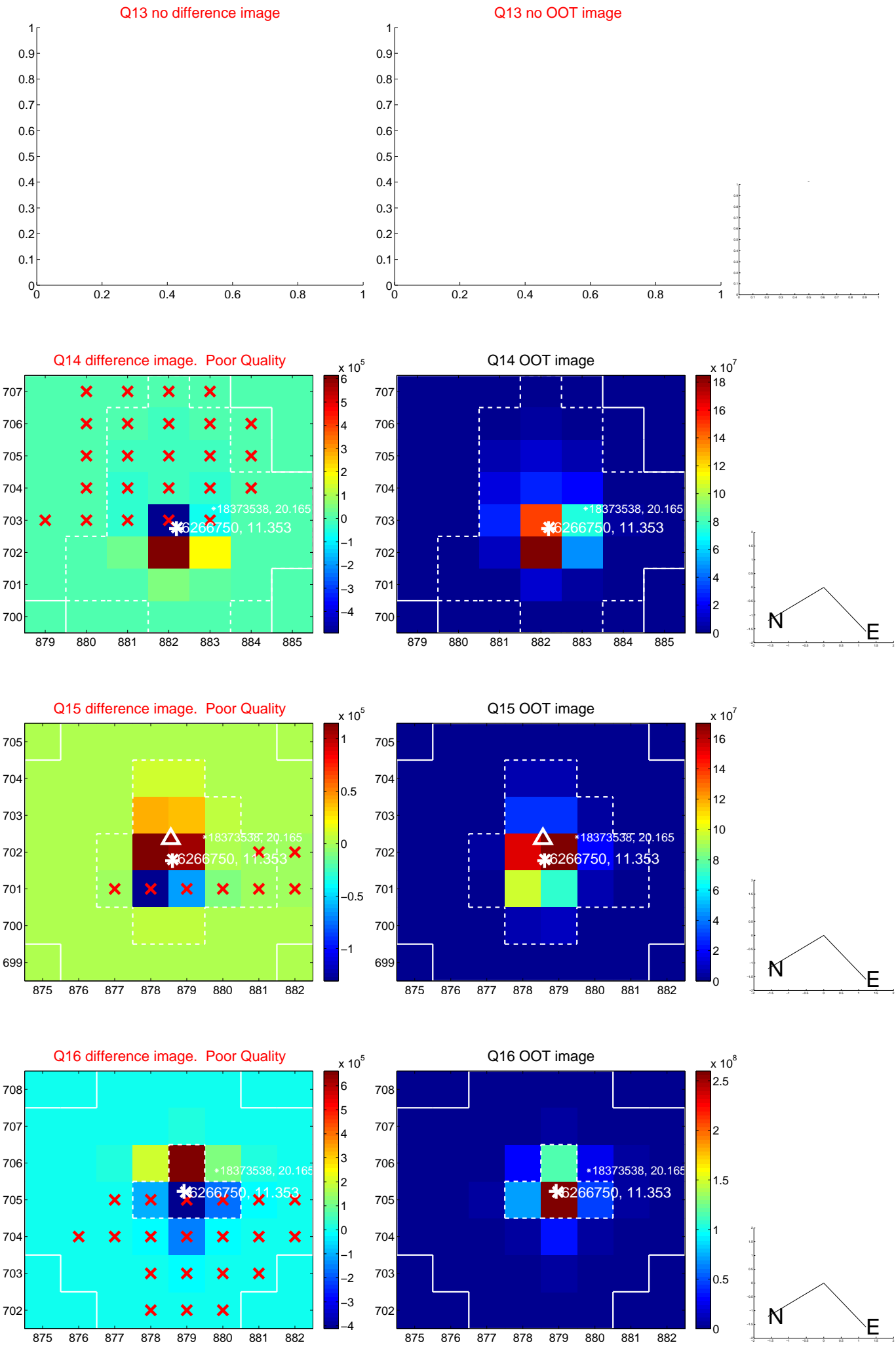
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



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

