

KIC 006763526

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})
006763526-01	OBS	No	4.026334	135.304563	4.0	21.638	7.5	4.3	1.86	6753	0.38	2350.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006763526-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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

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

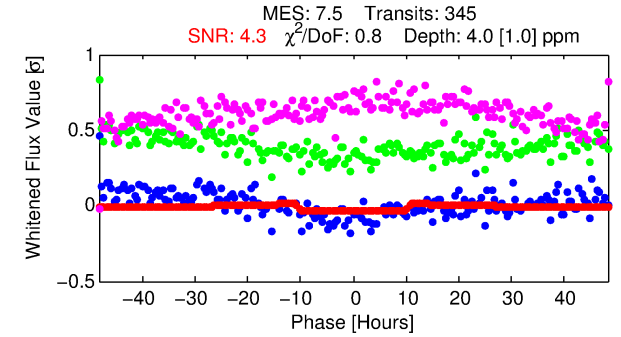
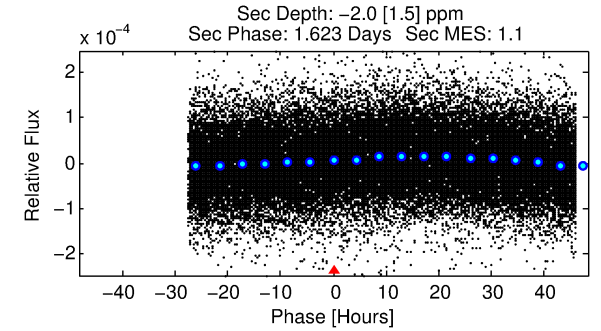
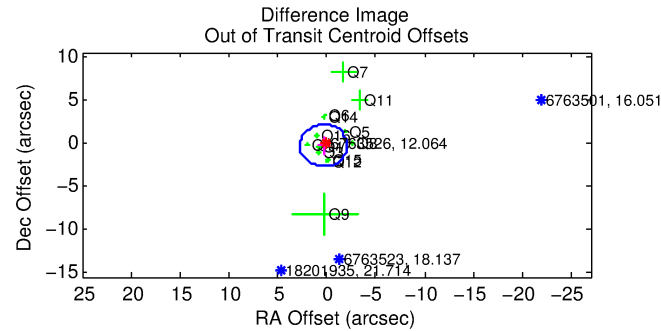
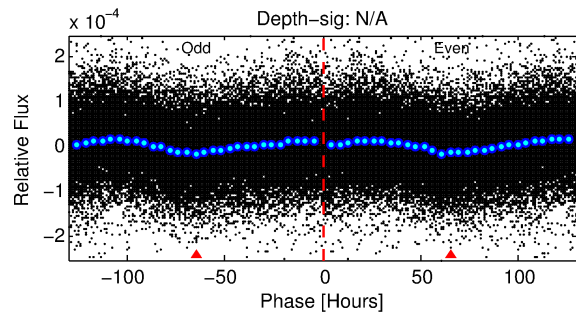
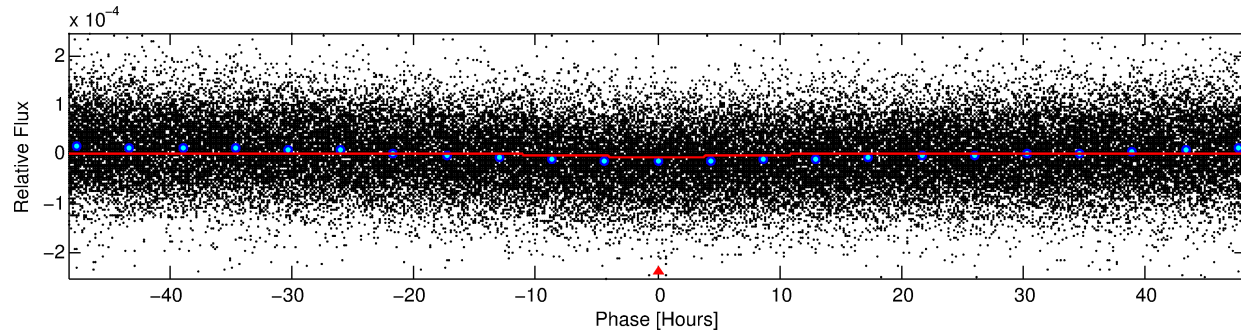
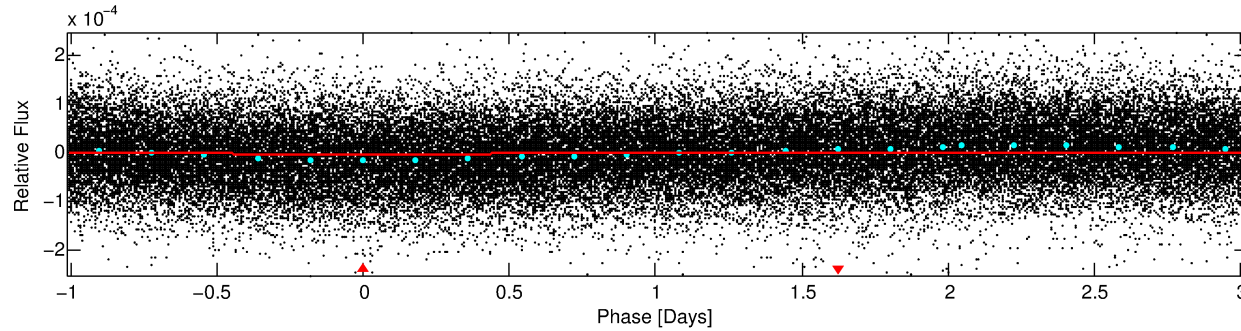
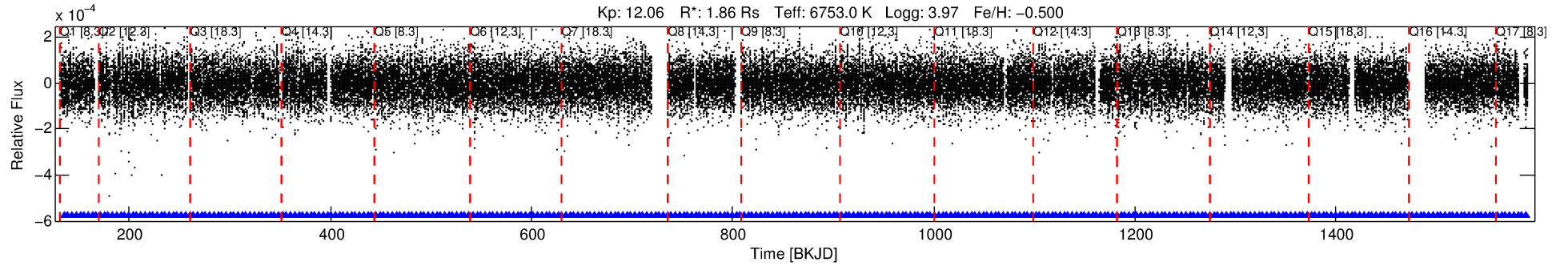
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006763526-01

No Significant Match Found

DV One-Page Summary

KIC: 6763526 Candidate: 1 of 1 Period: 4.026 d



DV Fit Results:

Period = 4.02633 [0.00016] d
Epoch = 135.3046 [0.0276] BKJD
Rp/R* = 0.0019 [0.0019]
a/R* = 1.51 [4.85]
b = 0.27 [19.28]
Seff = 2350.41 [1465.65]
Teff = 1775 [277] K
Rp = 0.38 [0.41] Re
a = 0.0525 [0.0191] AU
Ag = N/A
Teffp = N/A

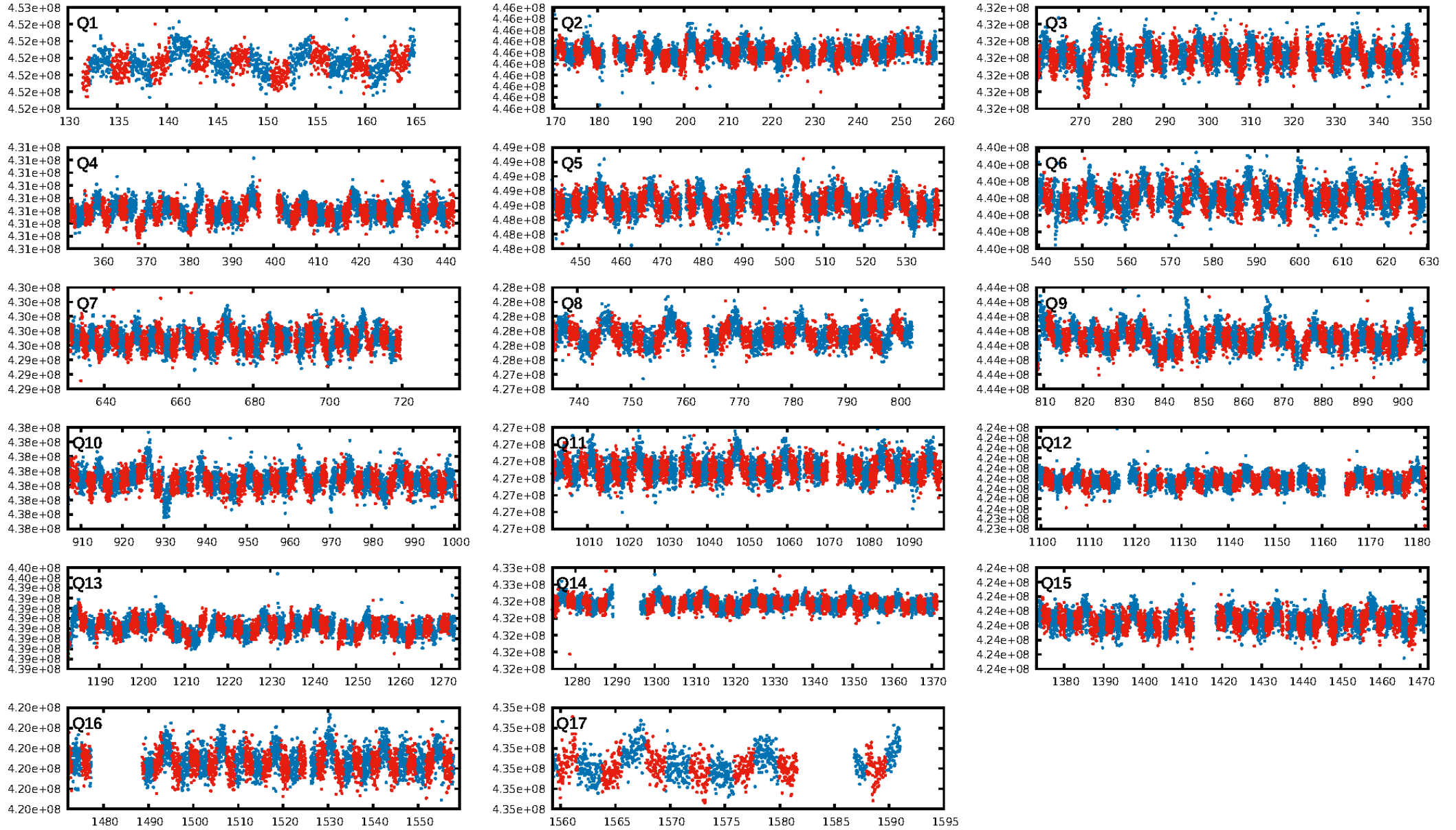
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.84e-16
RollingBand-fgt: 1.00 [329/329]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.427 arcsec [0.53σ]
KicOffset-rm: 0.590 arcsec [0.65σ]
OotOffset-st: 2/4/4/3 [13]
KicOffset-st: 2/4/4/3 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 1.00 [17/17]

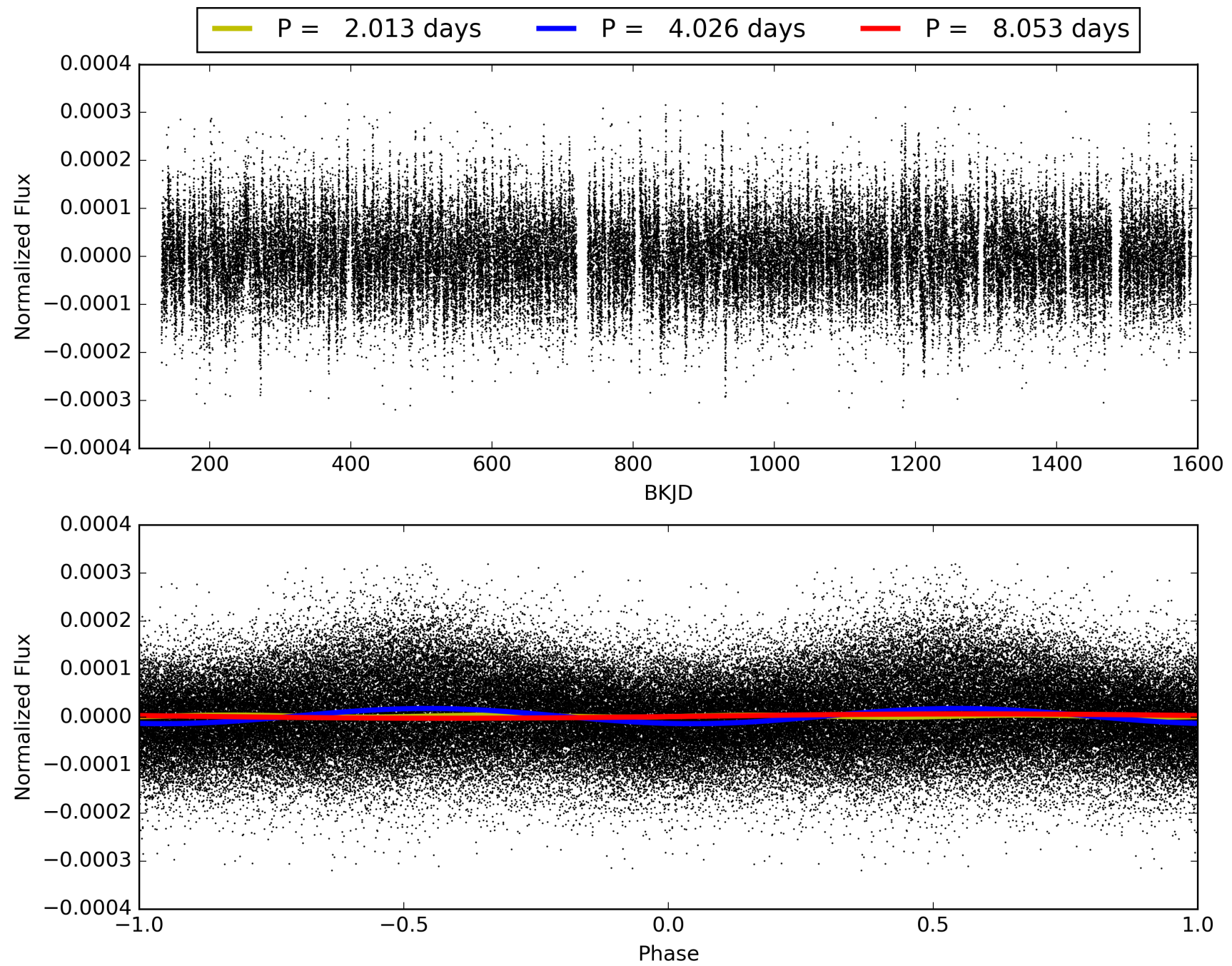
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 16:02:05 Z

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

TCE 006763526-01, PDC Light Curves

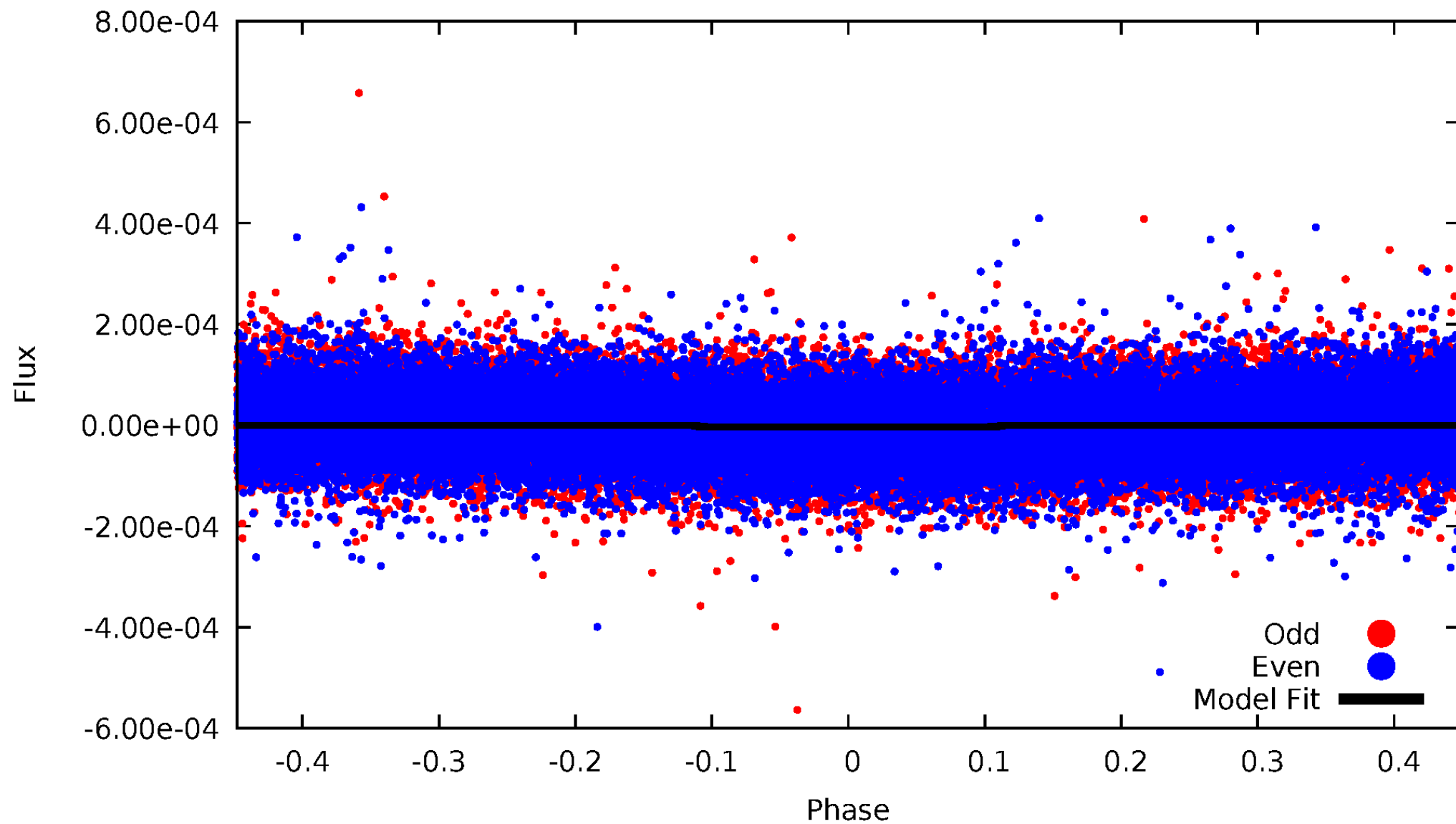


TCE 006763526-01



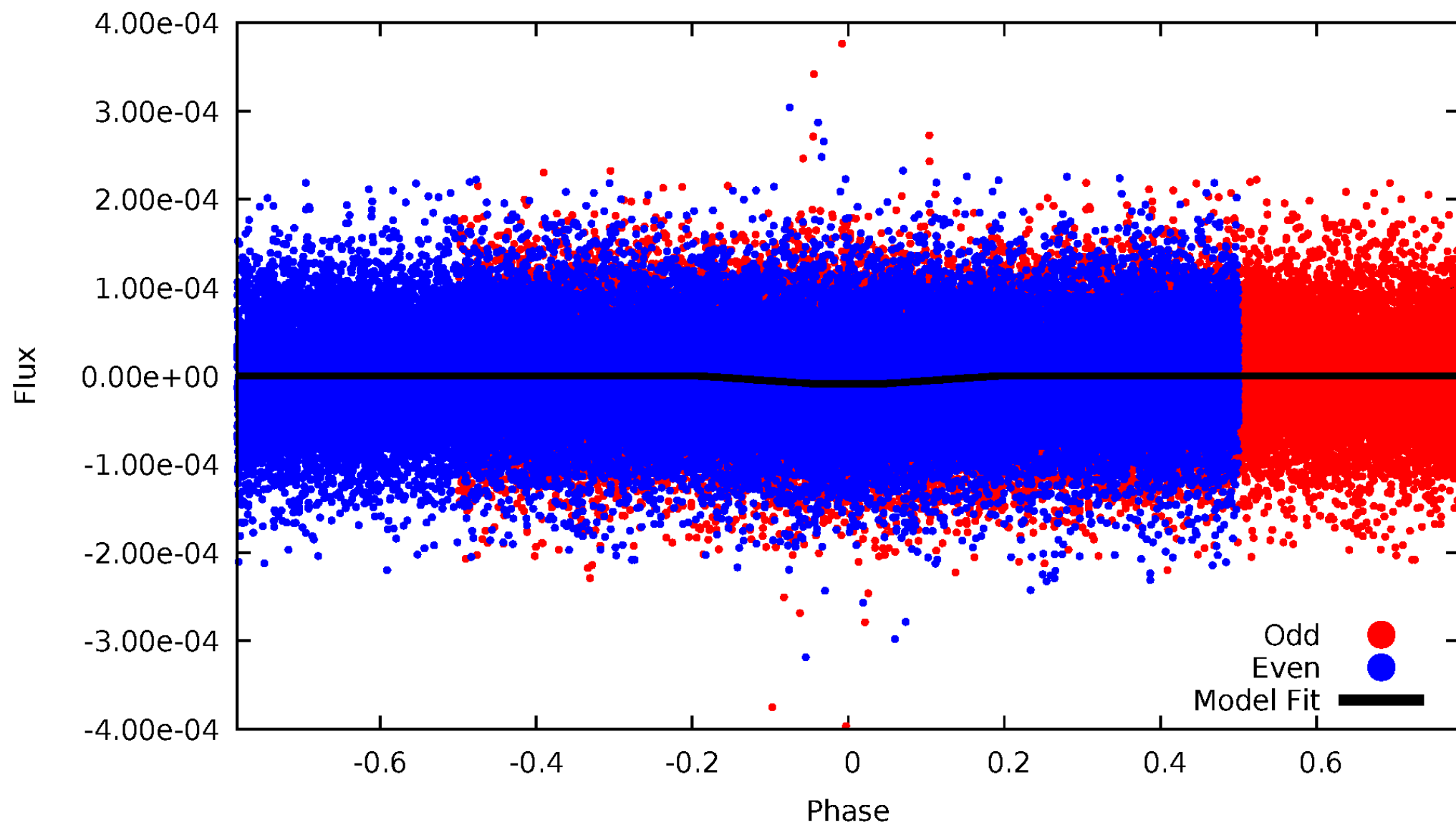
DV Odd/Even

TCE 006763526-01

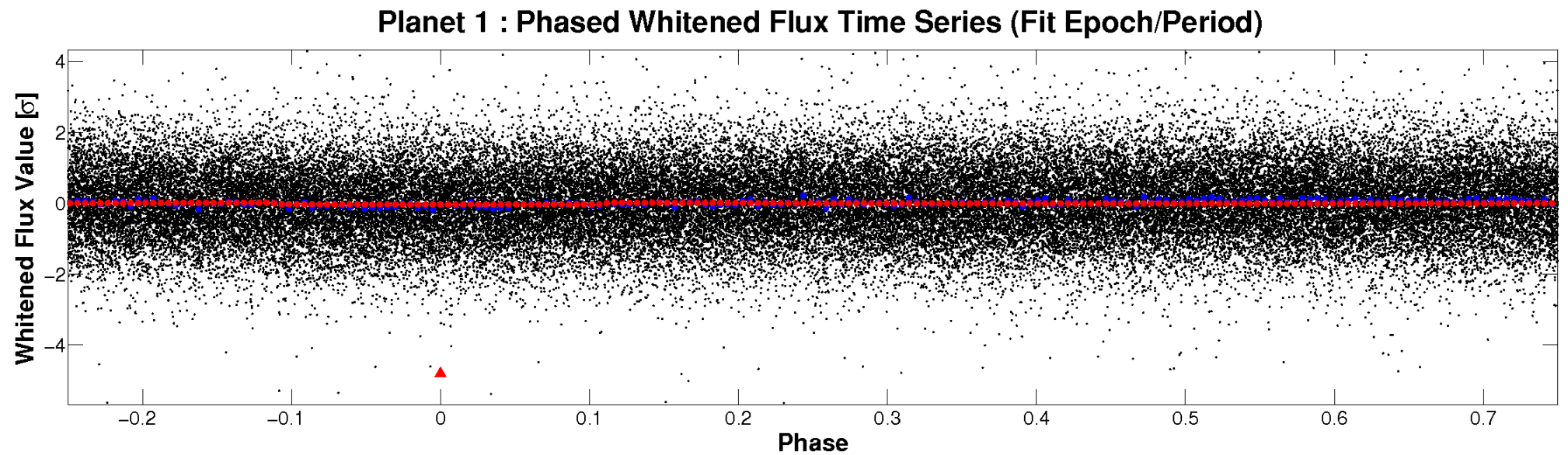
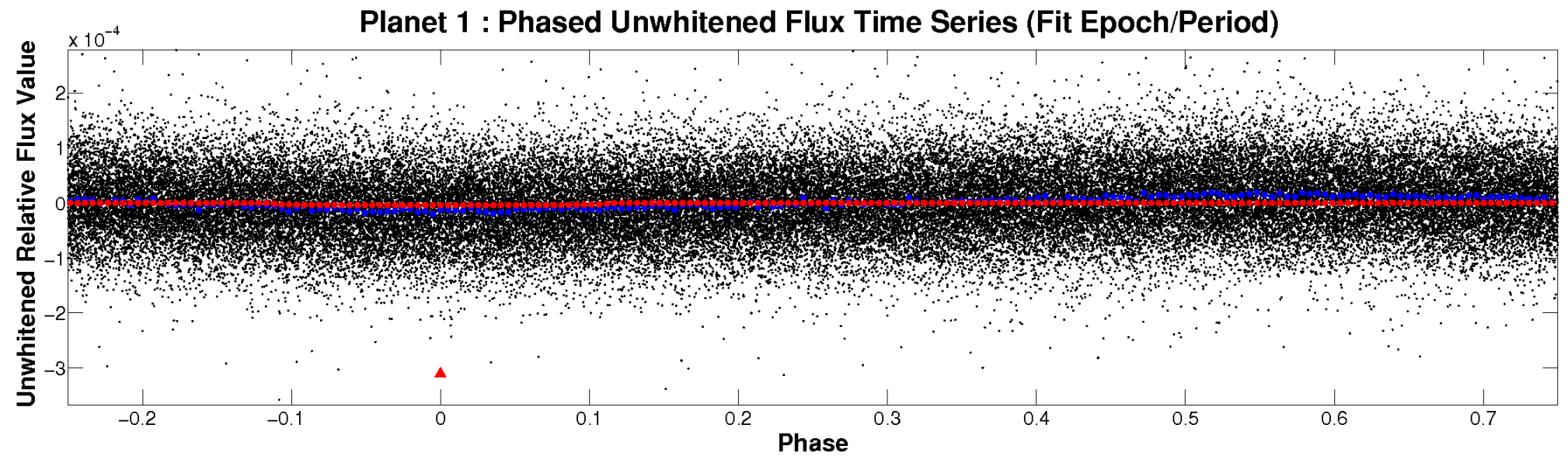


ALT Odd/Even

TCE 006763526-01

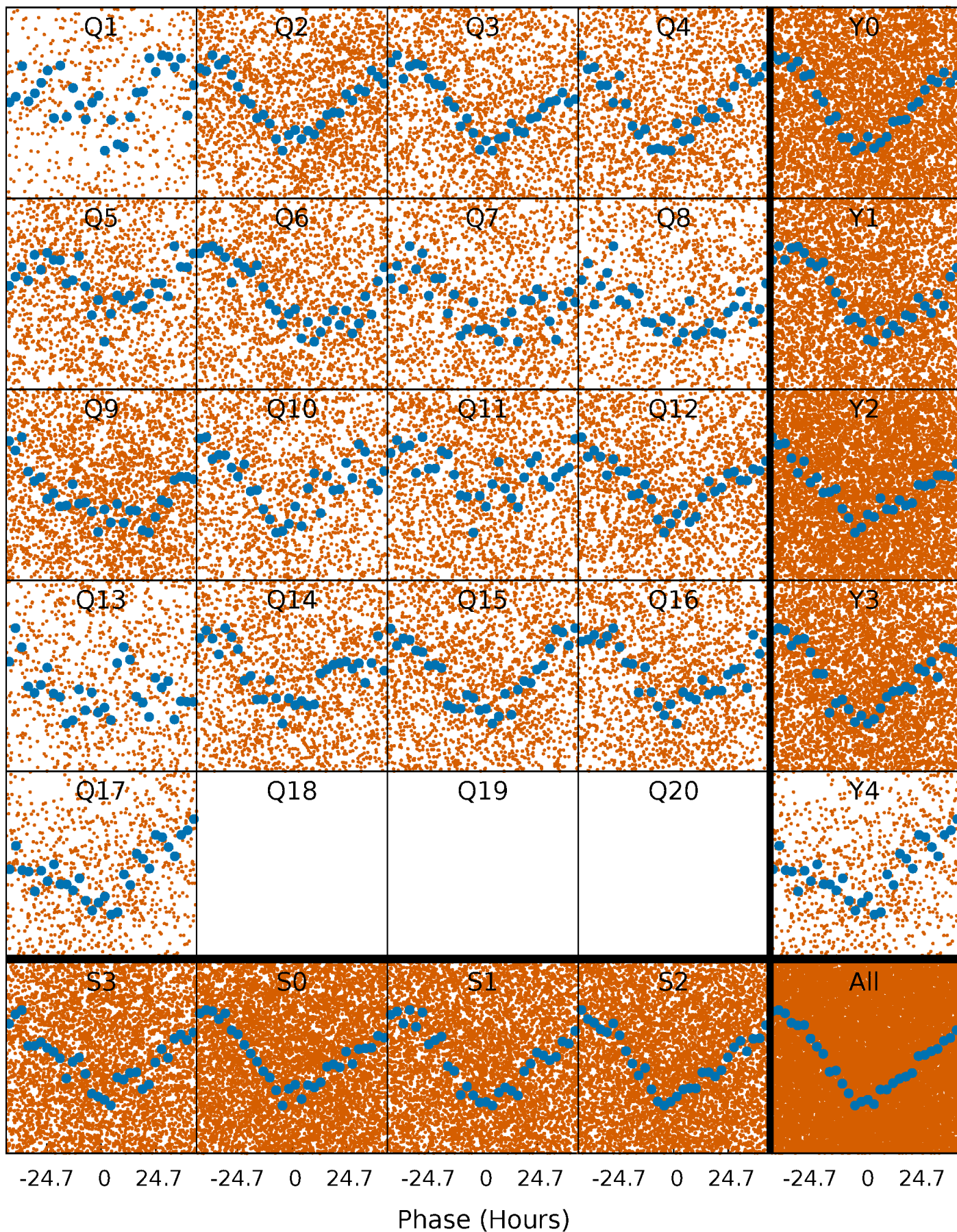


Non-Whitened Vs. Whitened Light Curve



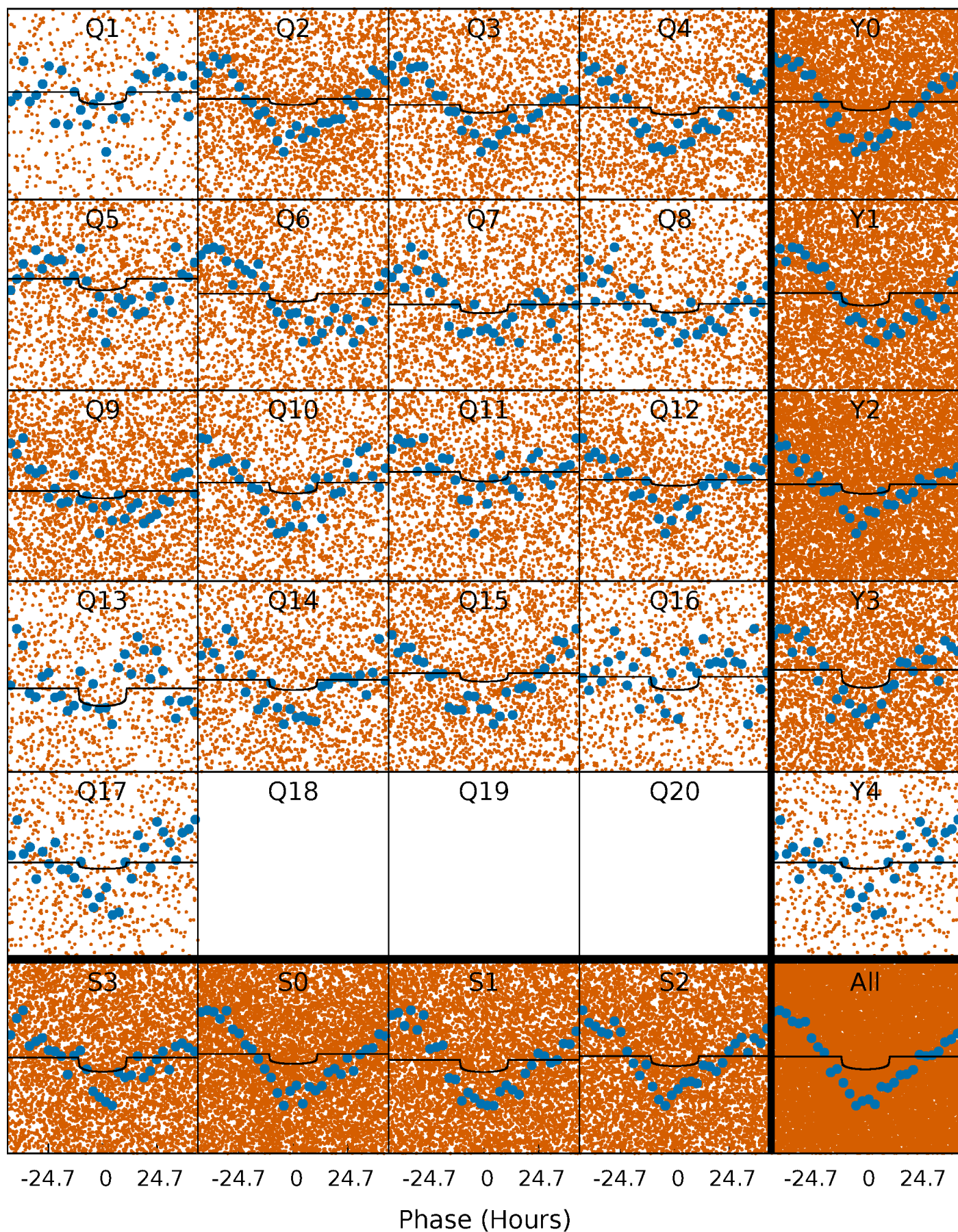
PDC Quarter-Phased Transit Curves

TCE 006763526-01 P= 4.026334 Days $T_0=135.304563$ (BKJD)



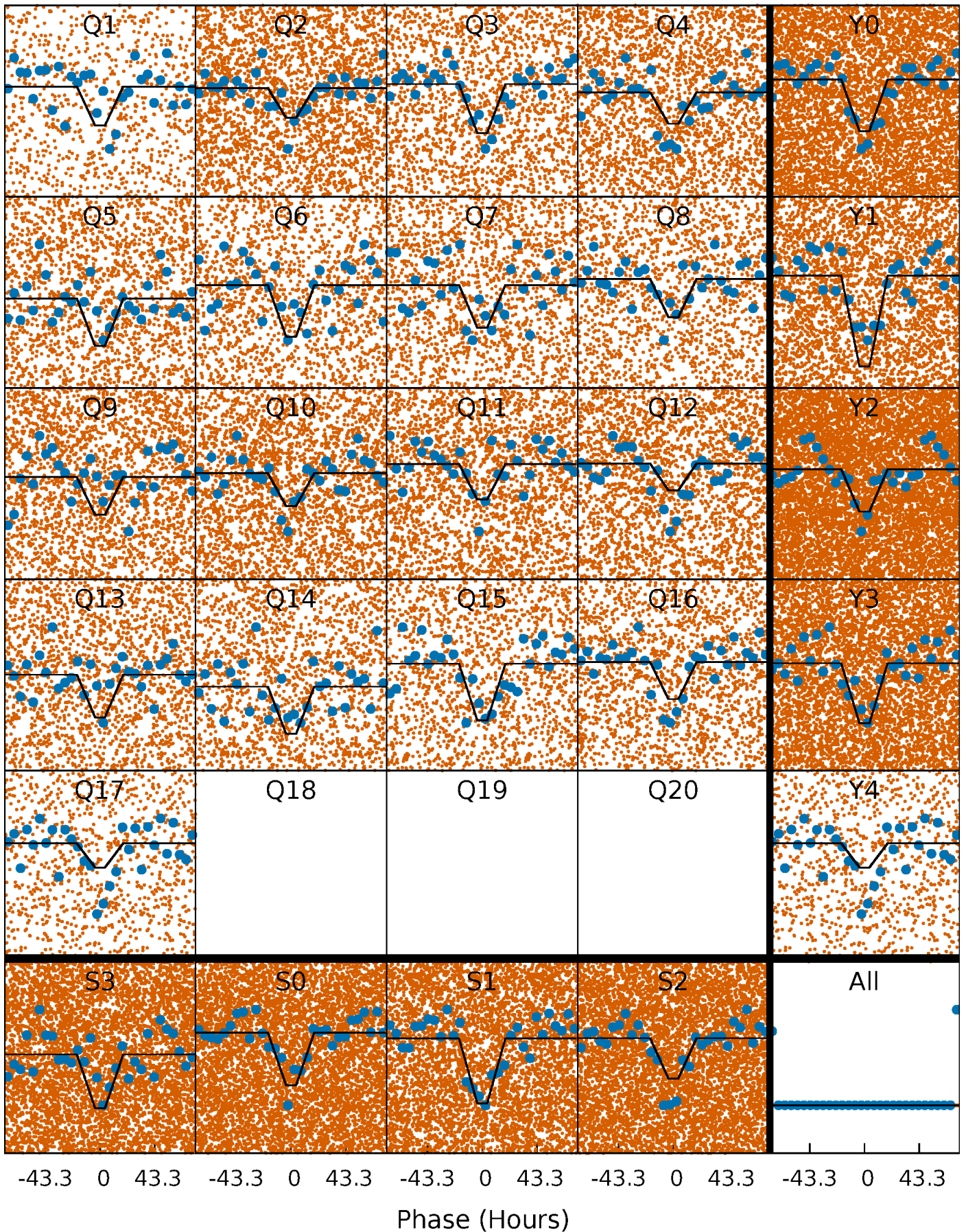
DV Quarter-Phased Transit Curves

TCE 006763526-01 P= 4.026334 Days $T_0=135.304563$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

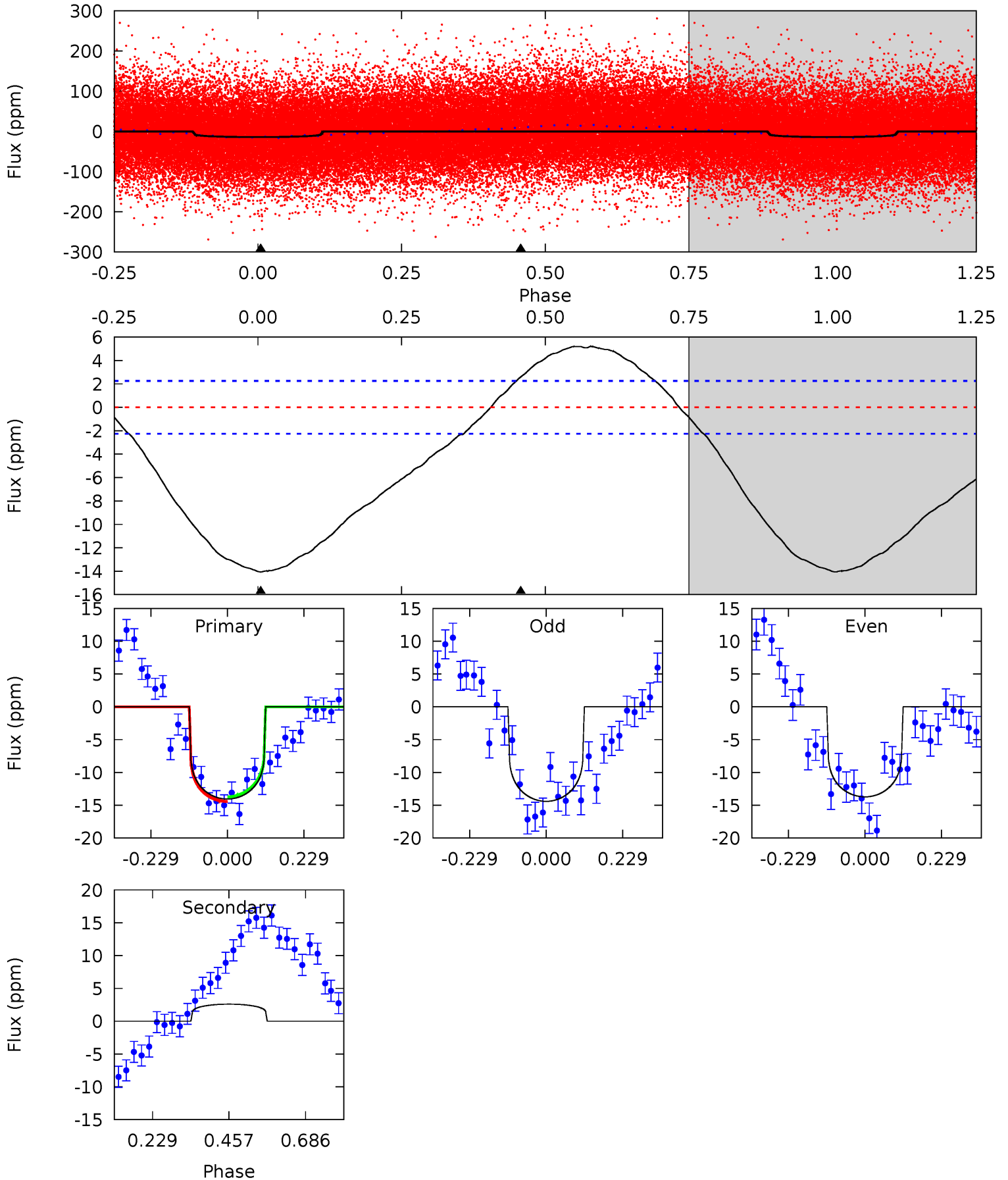
TCE 006763526-01 P= 4.027014 Days $T_0=135.083663$ (BKJD)



DV Model-Shift Uniqueness Test

006763526-01, P = 4.026334 Days, E = 131.278229 Days

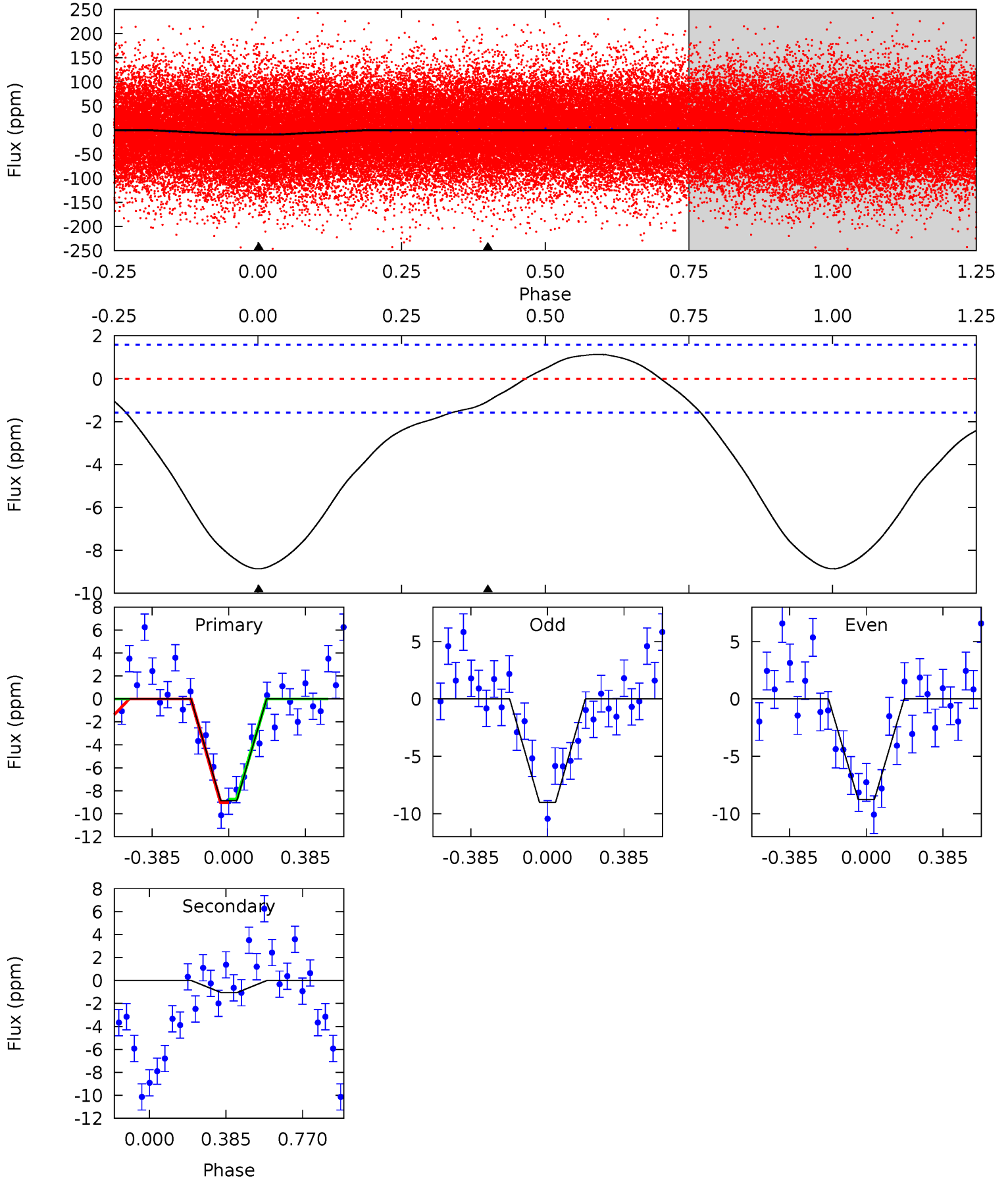
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.3	-5.04	0	0	4.39	1.20	4.02	27.3	27.3	-5.04	-5.04	0.66	1.05	0.27	0.68



Alt Model-Shift Uniqueness Test

006763526-01, P = 4.027014 Days, E = 131.056649 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.0	2.84	0	0	4.27	0.87	1.51	24.0	24.0	2.84	2.84	0.34	1.02	0.11	0.43



Stellar Parameters For KIC 006763526

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6753^{+183}_{-224}	$3.972^{+0.368}_{-0.147}$	$-0.500^{+0.250}_{-0.300}$	$1.863^{+0.464}_{-0.638}$	$1.187^{+0.189}_{-0.170}$	$0.259^{+0.670}_{-0.110}$
	+3%/-3%	+9%/-4%	+50%/-60%	+25%/-34%	+16%/-14%	+259%/-42%
Source	PHO1	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 006763526-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	3 ± 1	$0.42^{+0.36}_{-0.26}$	2432^{+193}_{-239}	-5714^{+1206}_{-4404}	$-21.739^{+15.147}_{-134.407}$
Alt.	-1 ± 0	$0.62^{+0.40}_{-0.34}$	2422^{+200}_{-233}	3952^{+1728}_{-658}	$3.937^{+16.297}_{-2.636}$

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 $A_{obs} \gg 1.0$

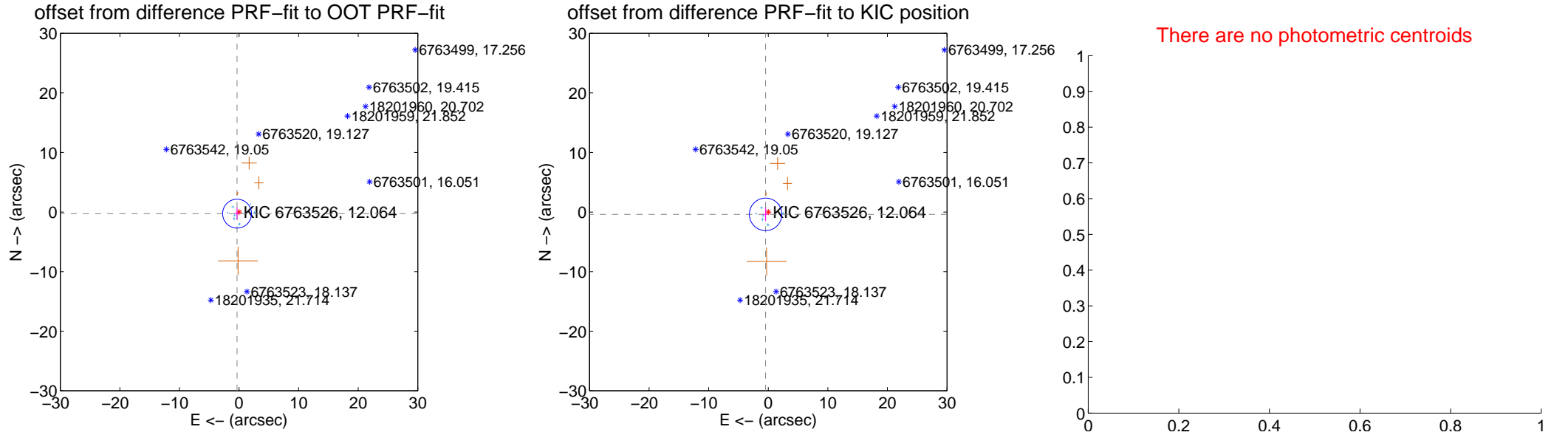
DV Centroid Data

Supplemental centroid analysis for 006763526-01. Kepler magnitude: 12.06. Transit SNR 4.28

There are 8 quarters with good PRF difference image offsets

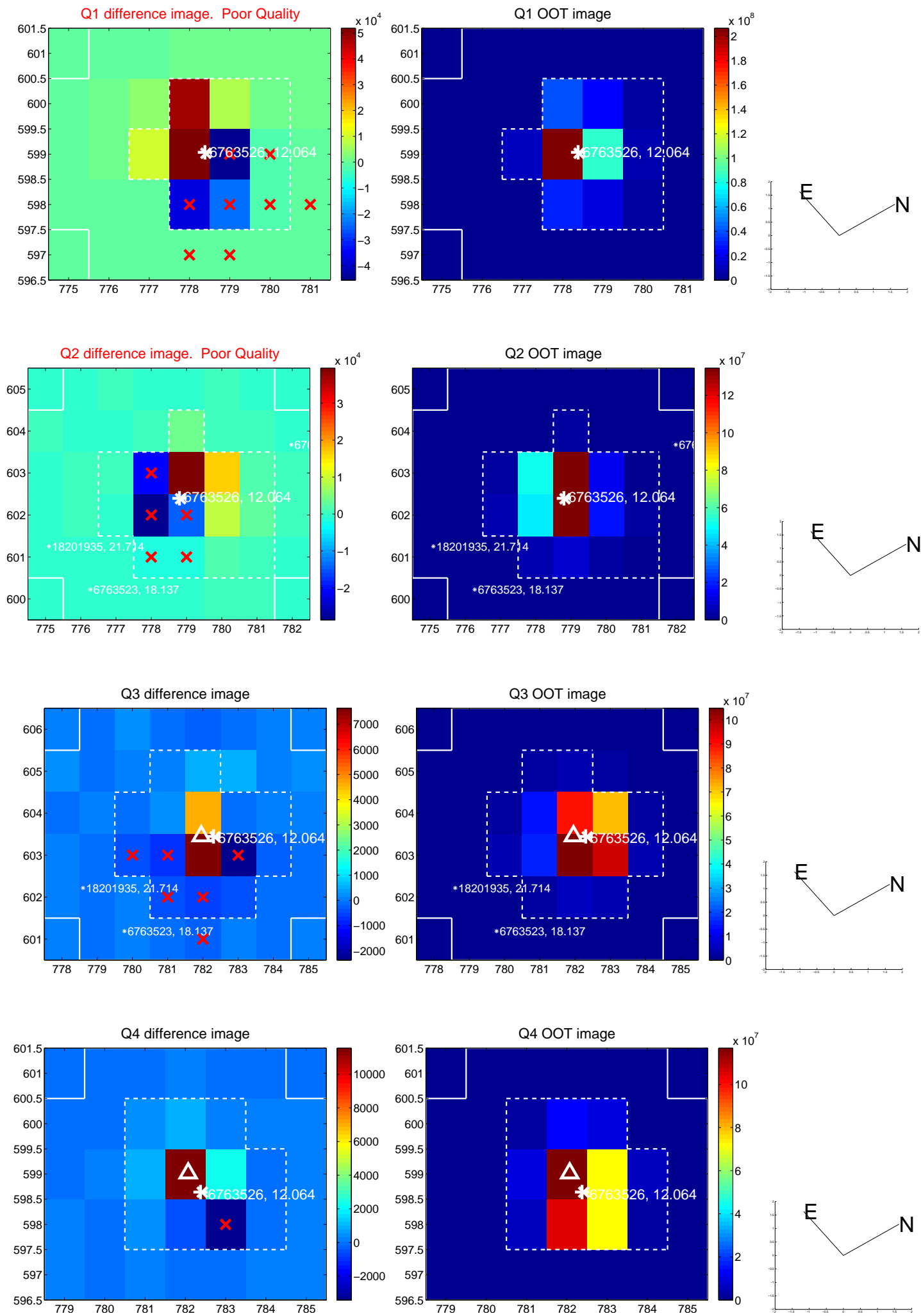
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.427 ± 0.809	0.53	0.331 ± 0.421	-0.270 ± 1.017
PRF-fit source offset from KIC position	0.590 ± 0.910	0.65	0.444 ± 0.391	-0.389 ± 1.145
photometric centroid source offset	—	—	—	—

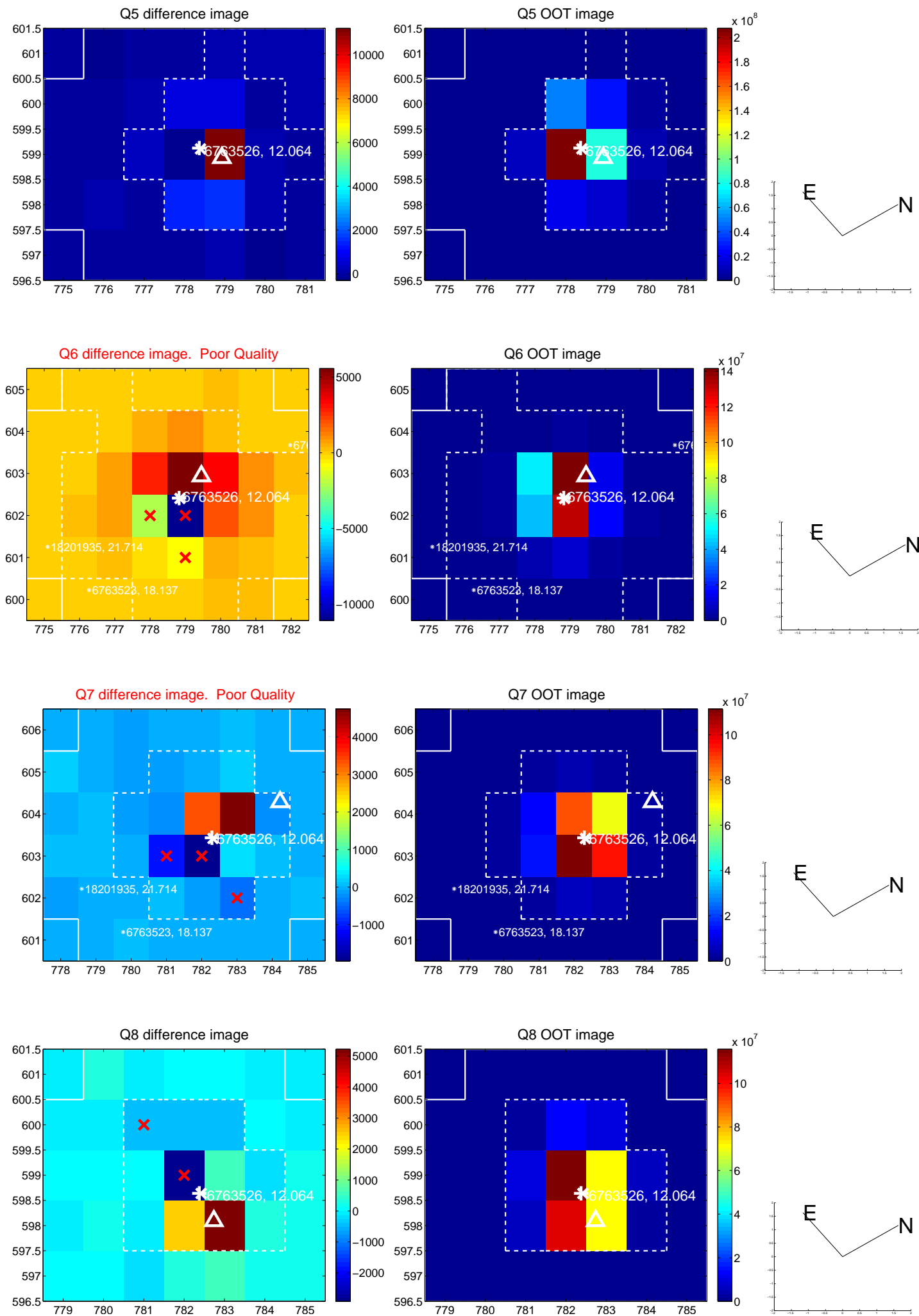


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

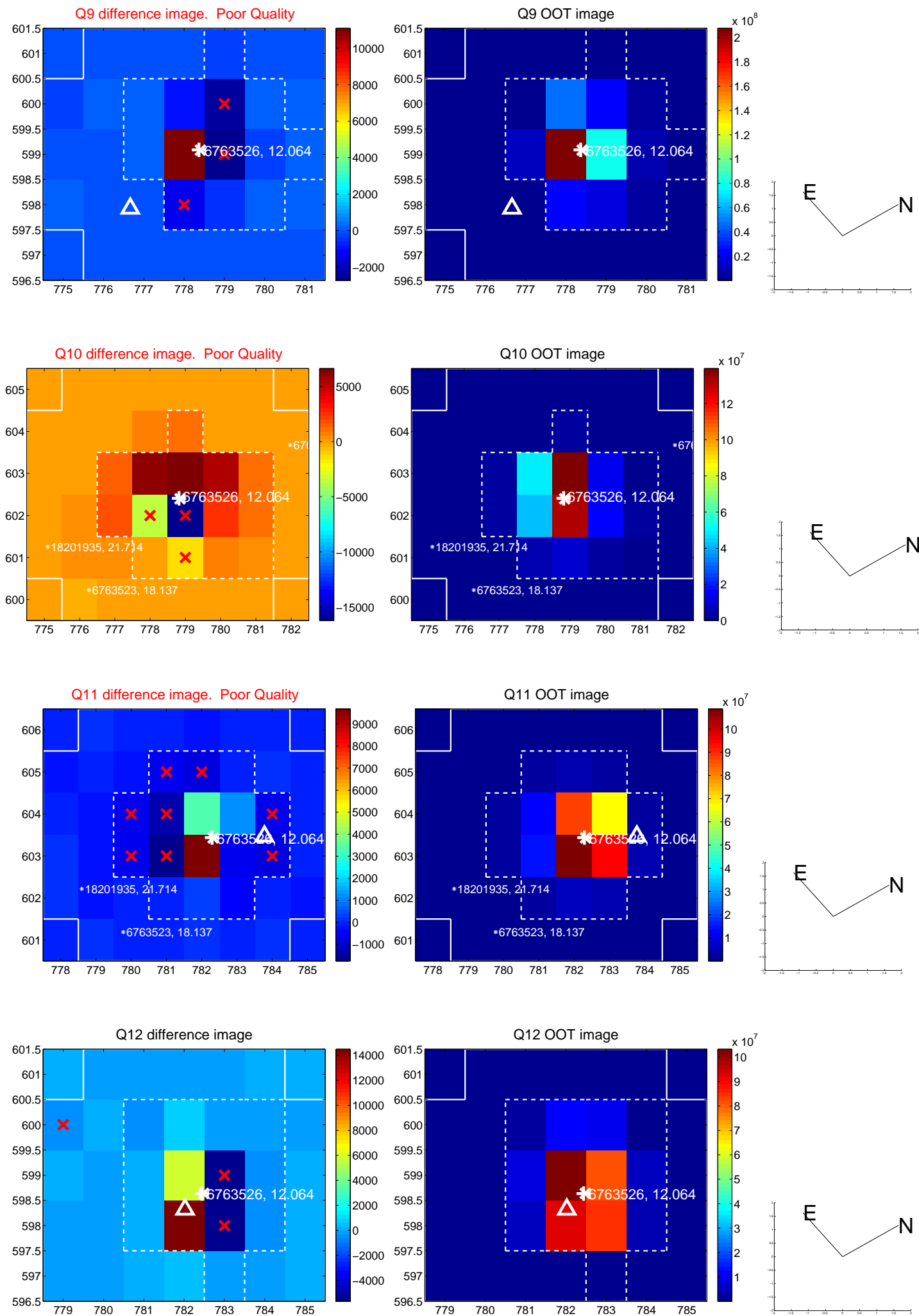
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



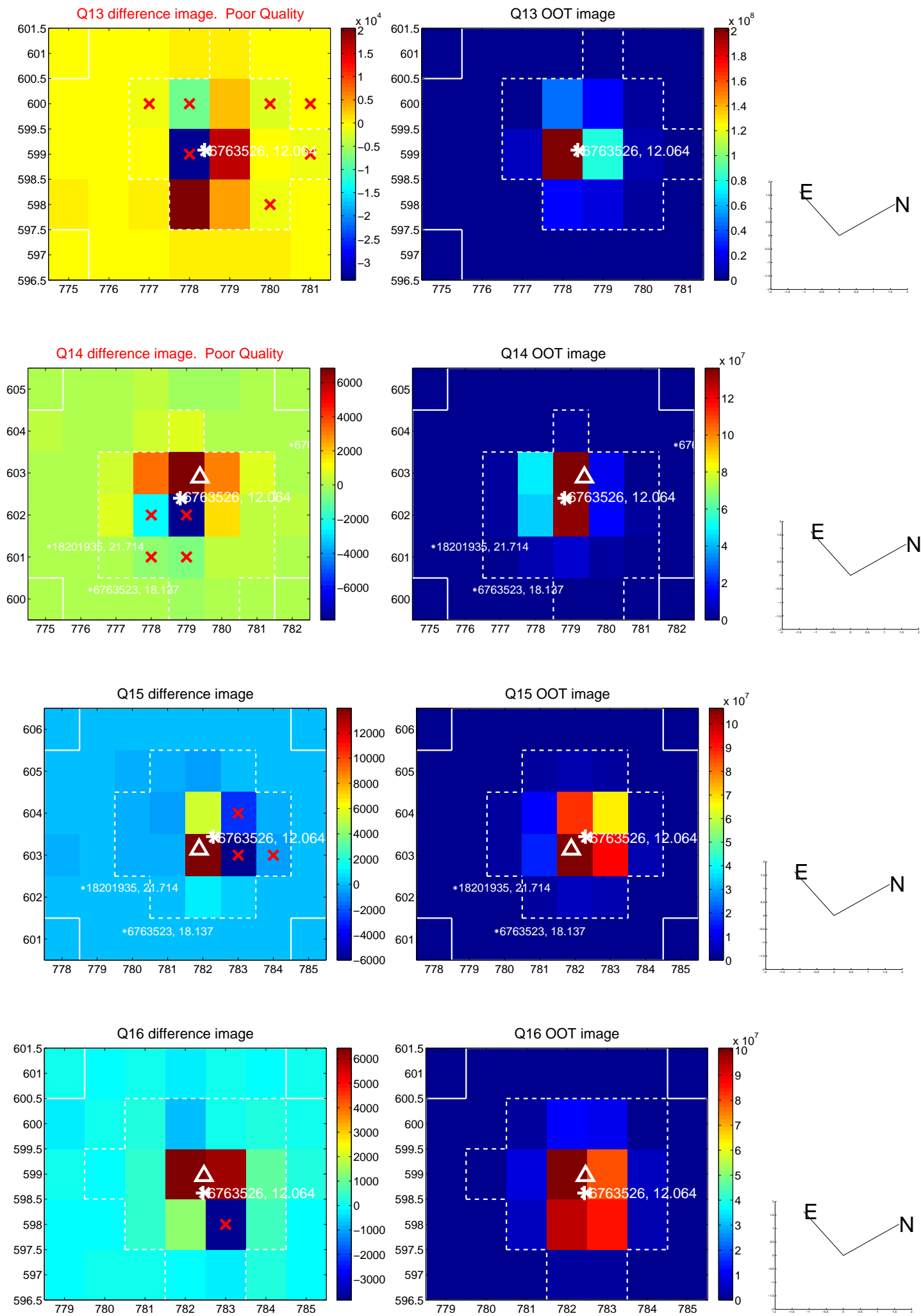
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



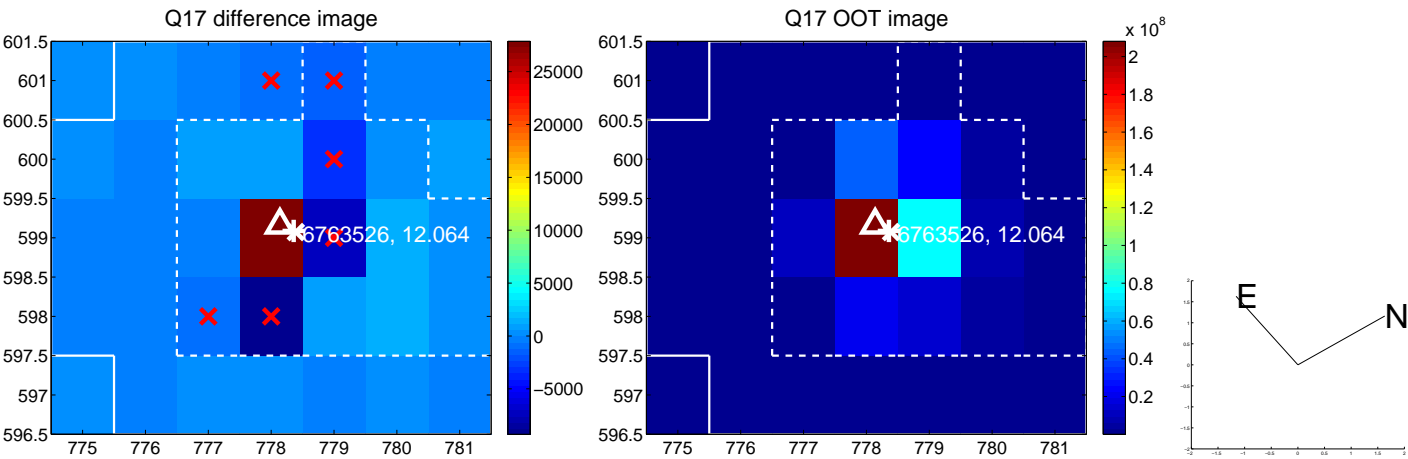
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

