

KIC 006265961

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})
006265961-01	OBS	6680.01	5.525069	135.152638	58.3	2.587	8.1	8.9	1.04	5600	0.95	264.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006265961-01	OBS	PC	0.91	0	0	0	0	NO_COMMENT

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

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

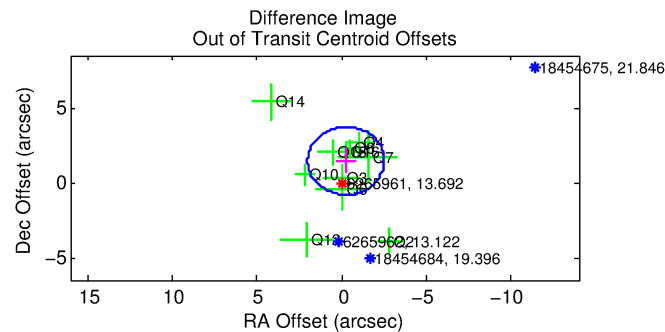
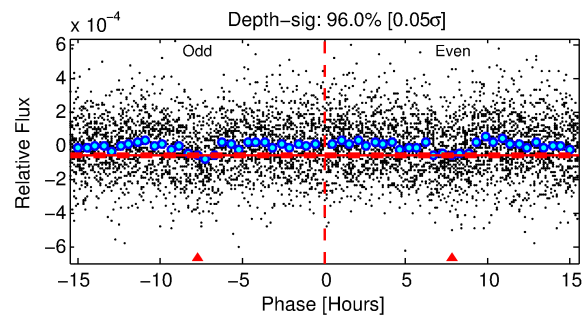
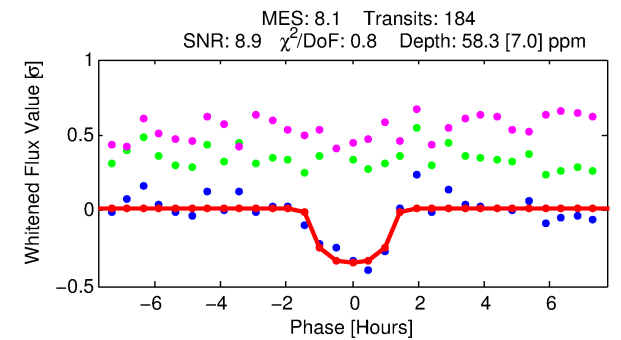
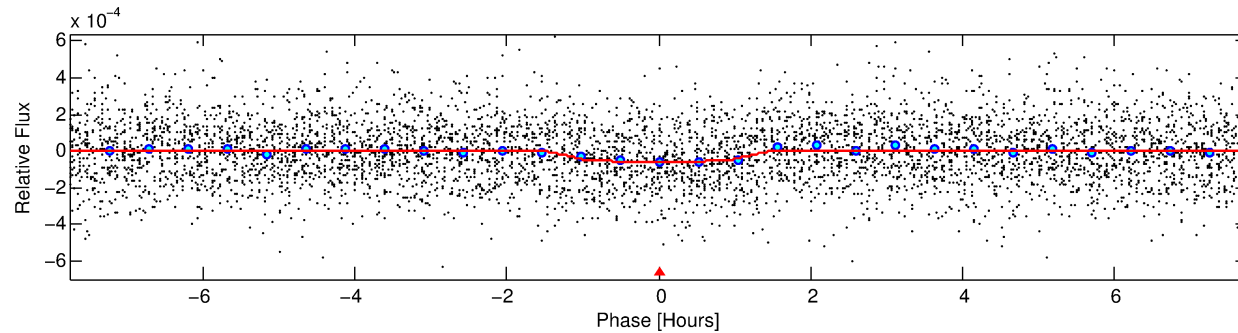
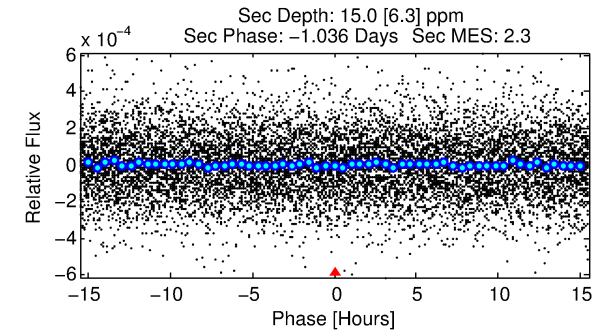
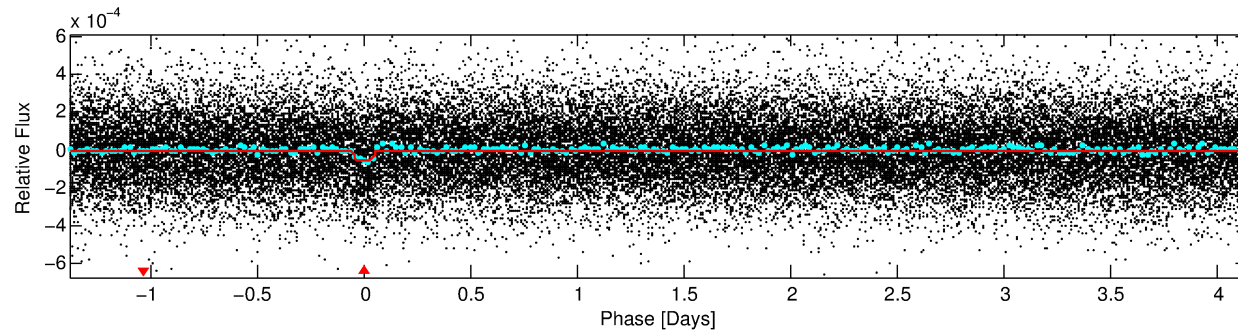
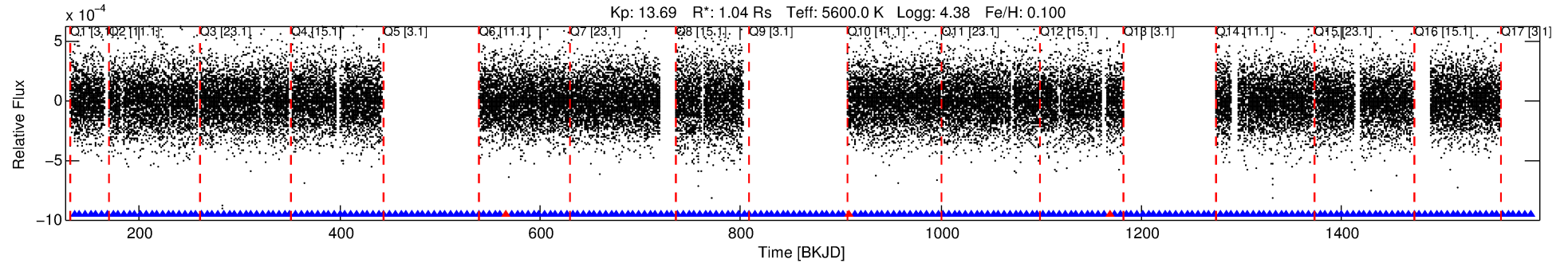
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006265961-01

No Significant Match Found

DV One-Page Summary

KIC: 6265961 Candidate: 1 of 1 Period: 5.525 d
KOI: K06680.01 Corr: 0.939



DV Fit Results:

Period = 5.52507 [0.00004] d
Epoch = 135.1526 [0.0053] BKJD
Rp/R* = 0.0084 [0.0068]
a/R* = 7.48 [27.54]
b = 0.90 [0.81]
Seff = 264.47 [53.51]
Teq = 1028 [52] K
Rp = 0.95 [0.79] Re
a = 0.0599 [0.0077] AU
Ag = 32.98 [55.93] [0.57σ]
Teffp = 3810 [1606] K [1.73σ]

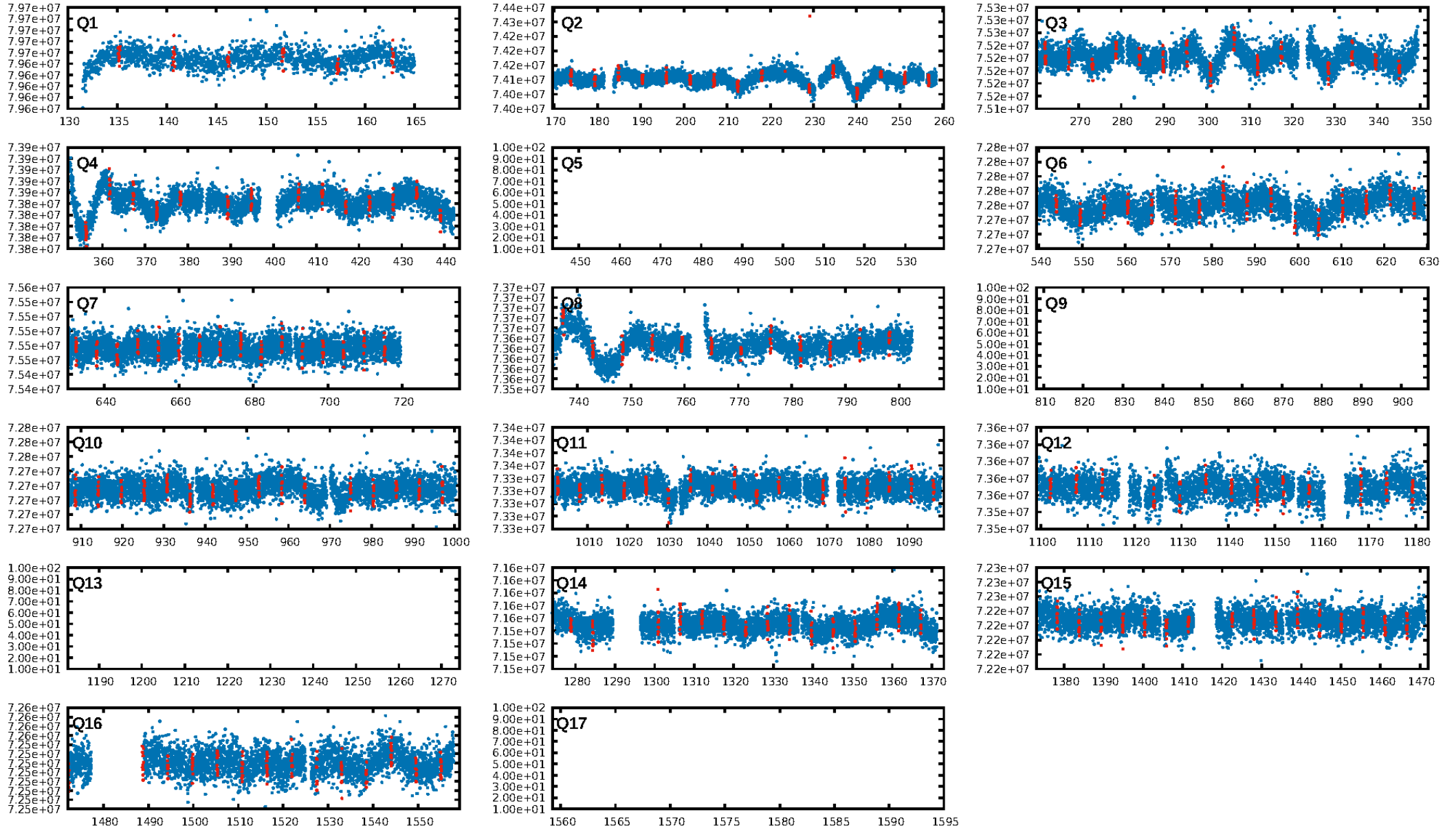
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.9%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.17e-16
RollingBand-fgt: 0.98 [175/178]
GhostDiagnostic-chr: 4.049
Centroid-sig: 0.0%
Centroid-so: 2.832 arcsec [2.06σ]
OotOffset-rm: 1.468 arcsec [1.95σ]
KicOffset-rm: 1.238 arcsec [1.73σ]
OotOffset-st: 4/3/4/0 [11]
KicOffset-st: 4/3/4/0 [11]
DiffImageQuality-fgm: 0.45 [5/11]
DiffImageOverlap-fno: 1.00 [13/13]

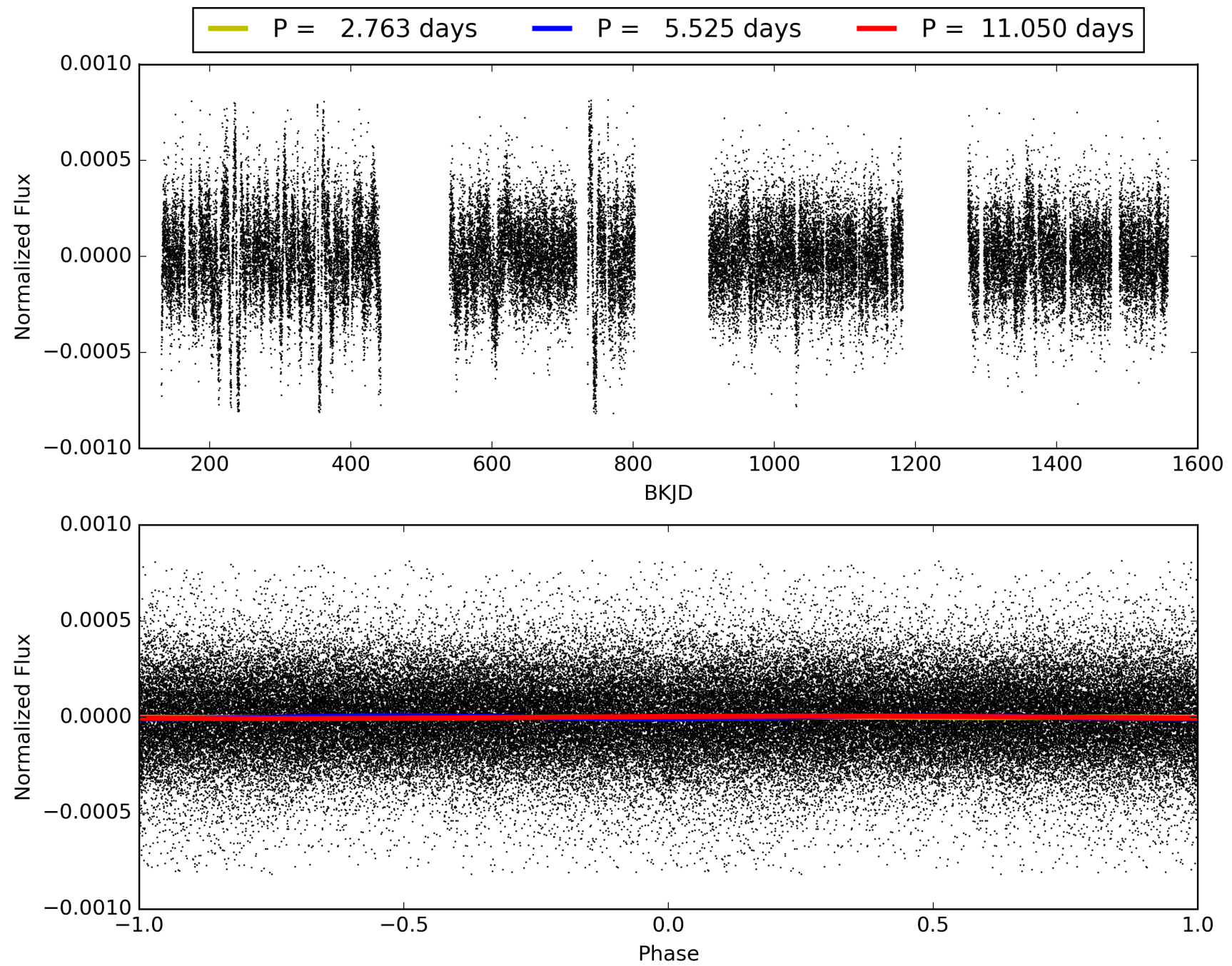
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 20:59:47 Z

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

TCE 006265961-01, PDC Light Curves

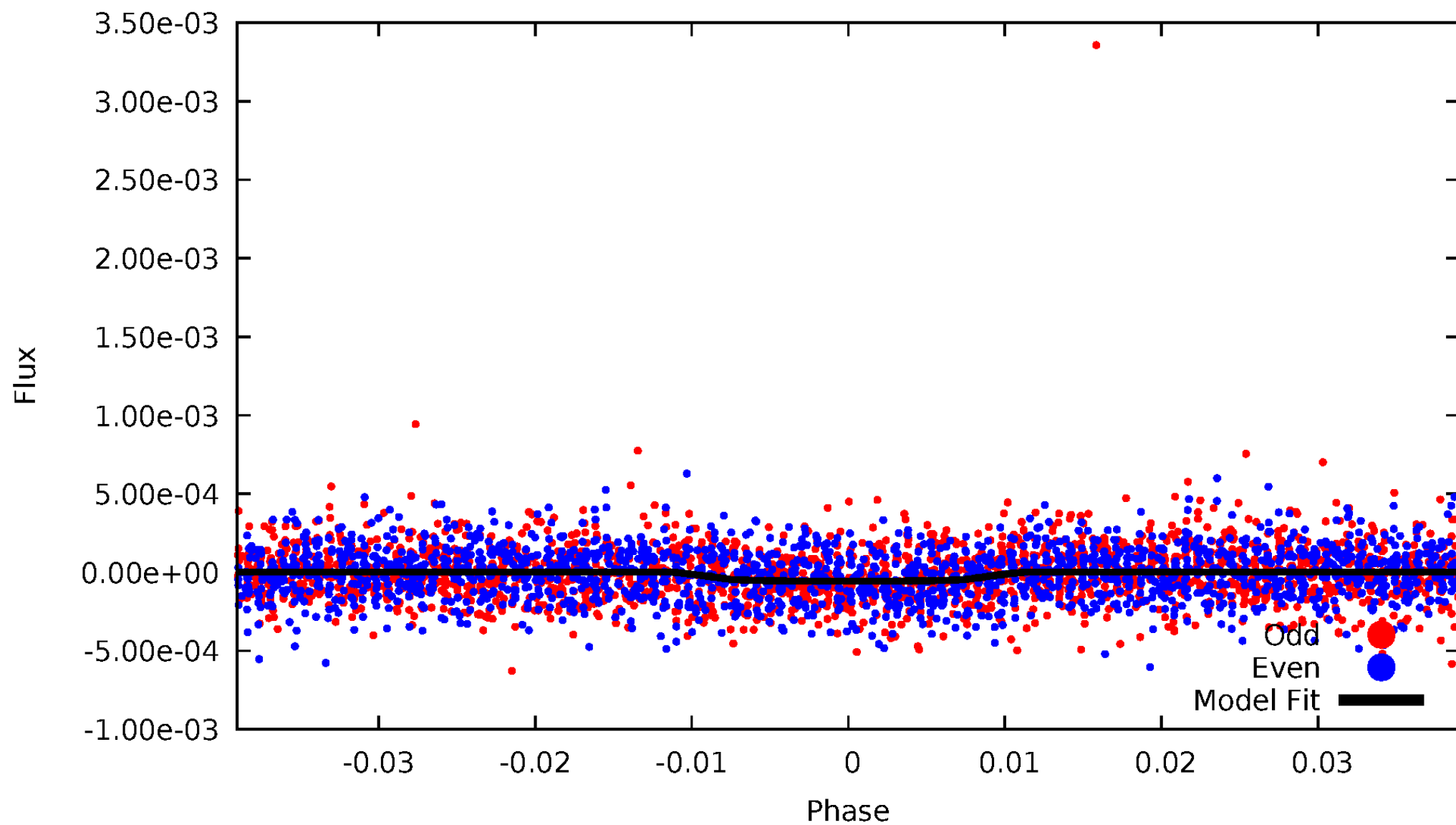


TCE 006265961-01



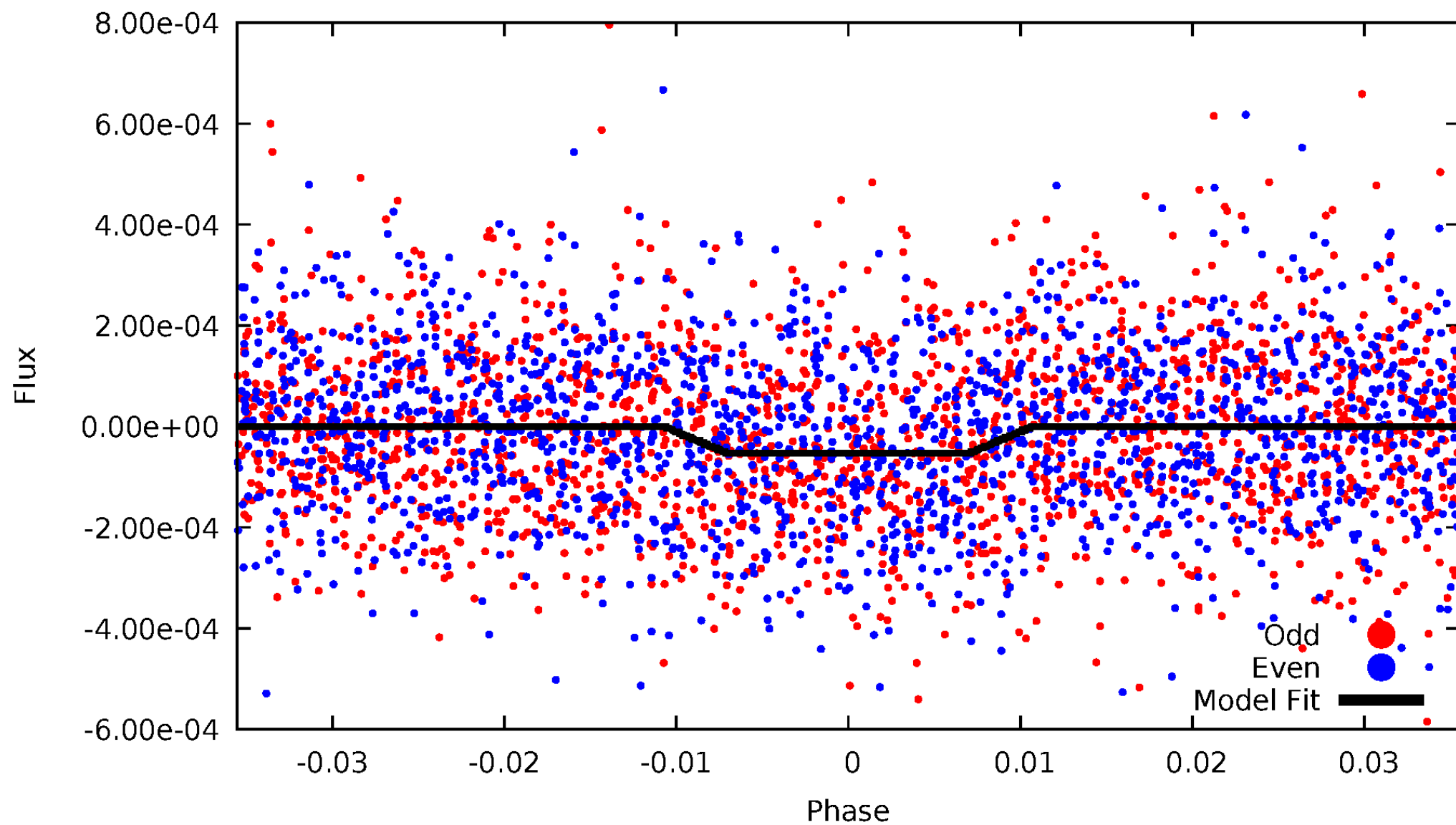
DV Odd/Even

TCE 006265961-01

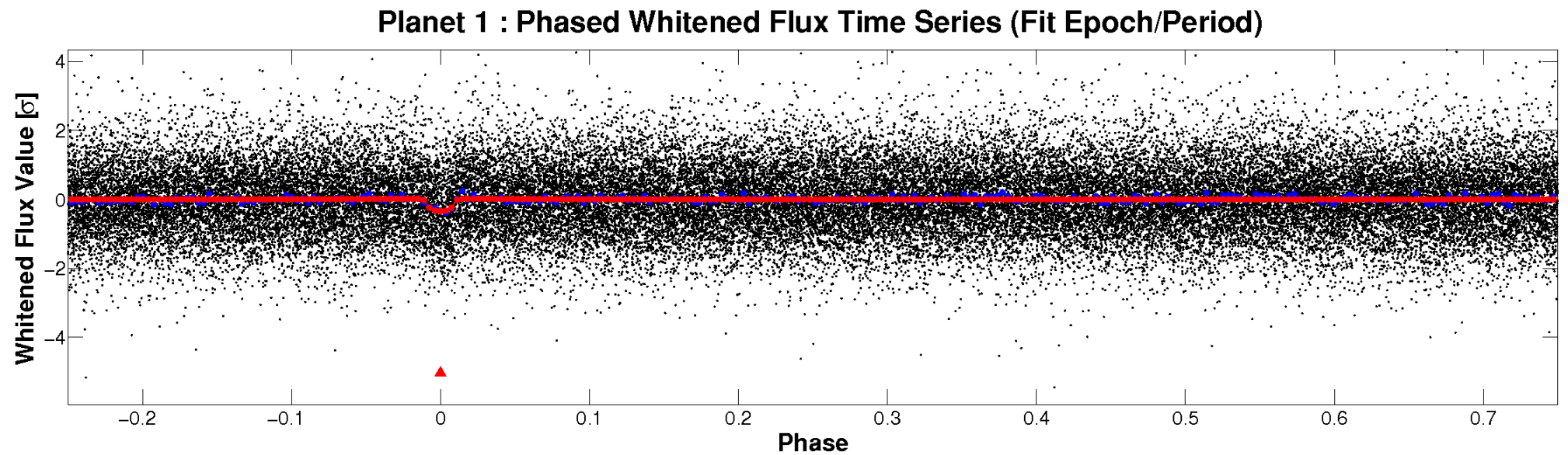
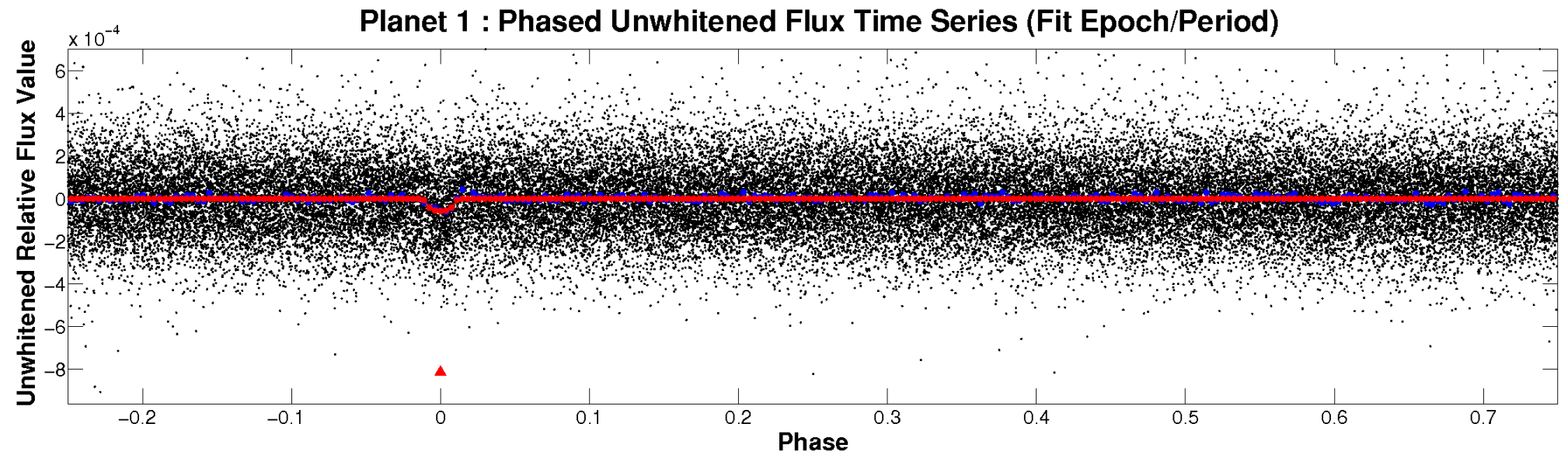


ALT Odd/Even

TCE 006265961-01

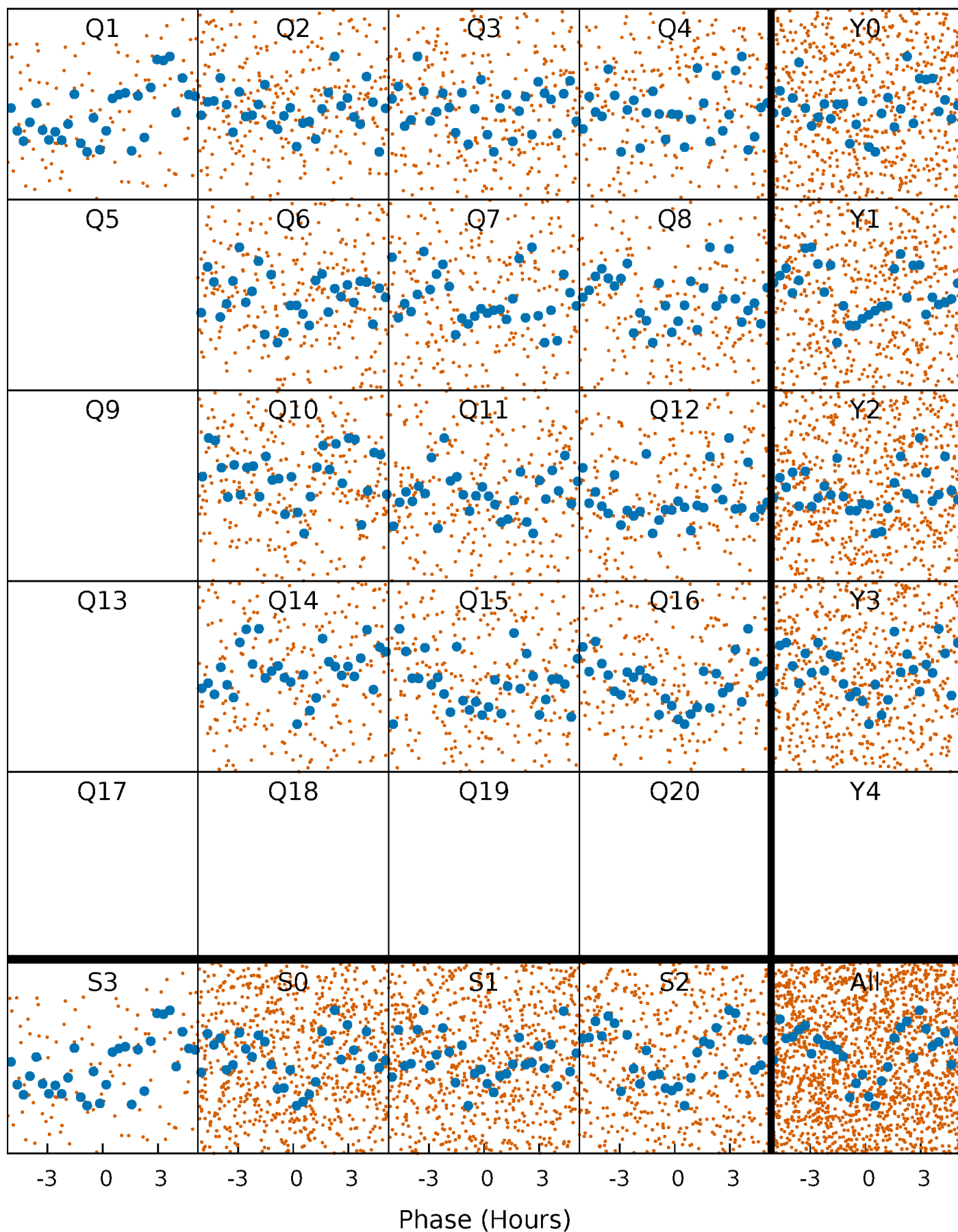


Non-Whitened Vs. Whitened Light Curve



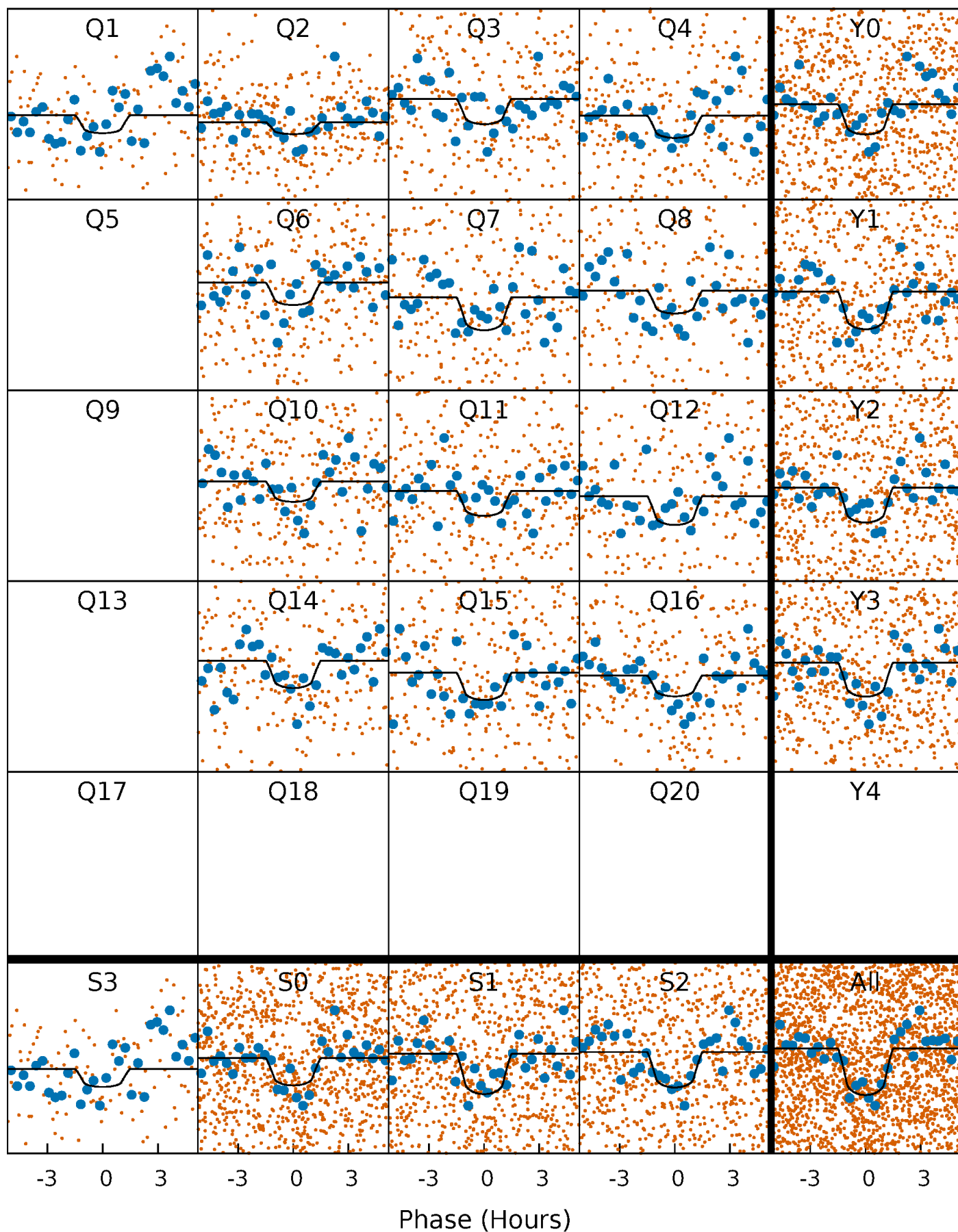
PDC Quarter-Phased Transit Curves

TCE 006265961-01 P= 5.525069 Days $T_0=135.152638$ (BKJD)



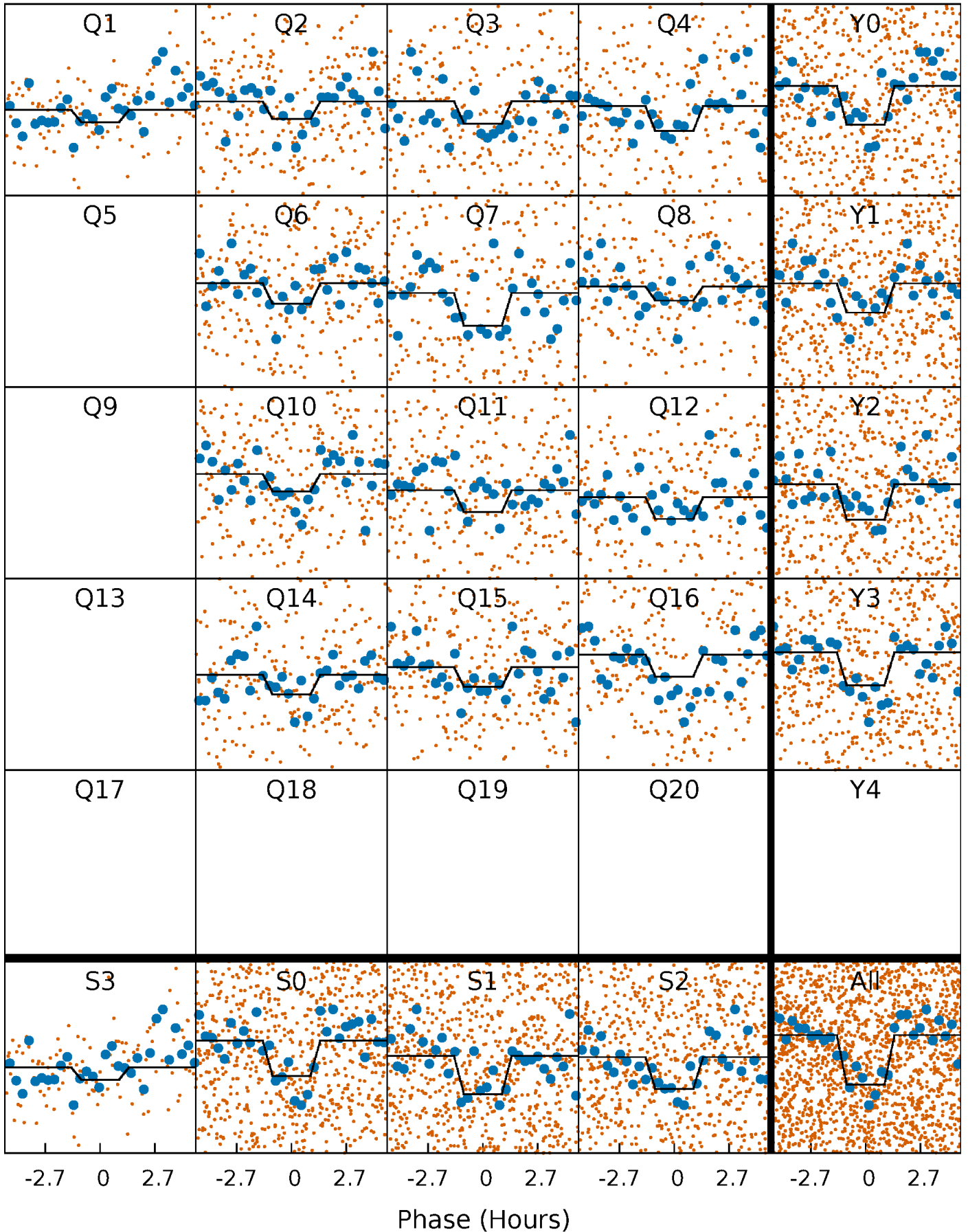
DV Quarter-Phased Transit Curves

TCE 006265961-01 P= 5.525069 Days $T_0=135.152638$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

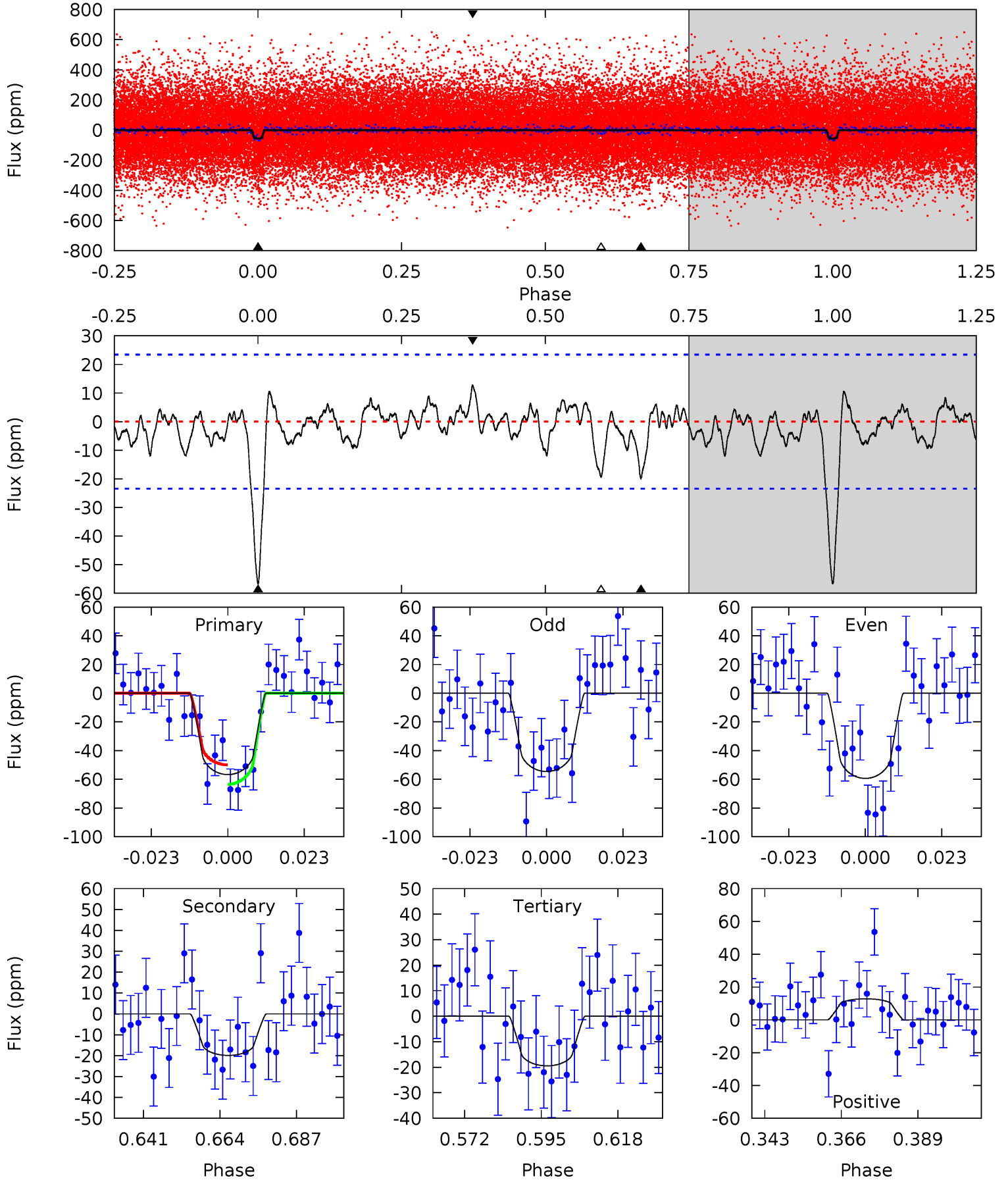
TCE 006265961-01 P= 5.525069 Days $T_0=135.155153$ (BKJD)



DV Model-Shift Uniqueness Test

006265961-01, P = 5.525069 Days, E = 129.627569 Days

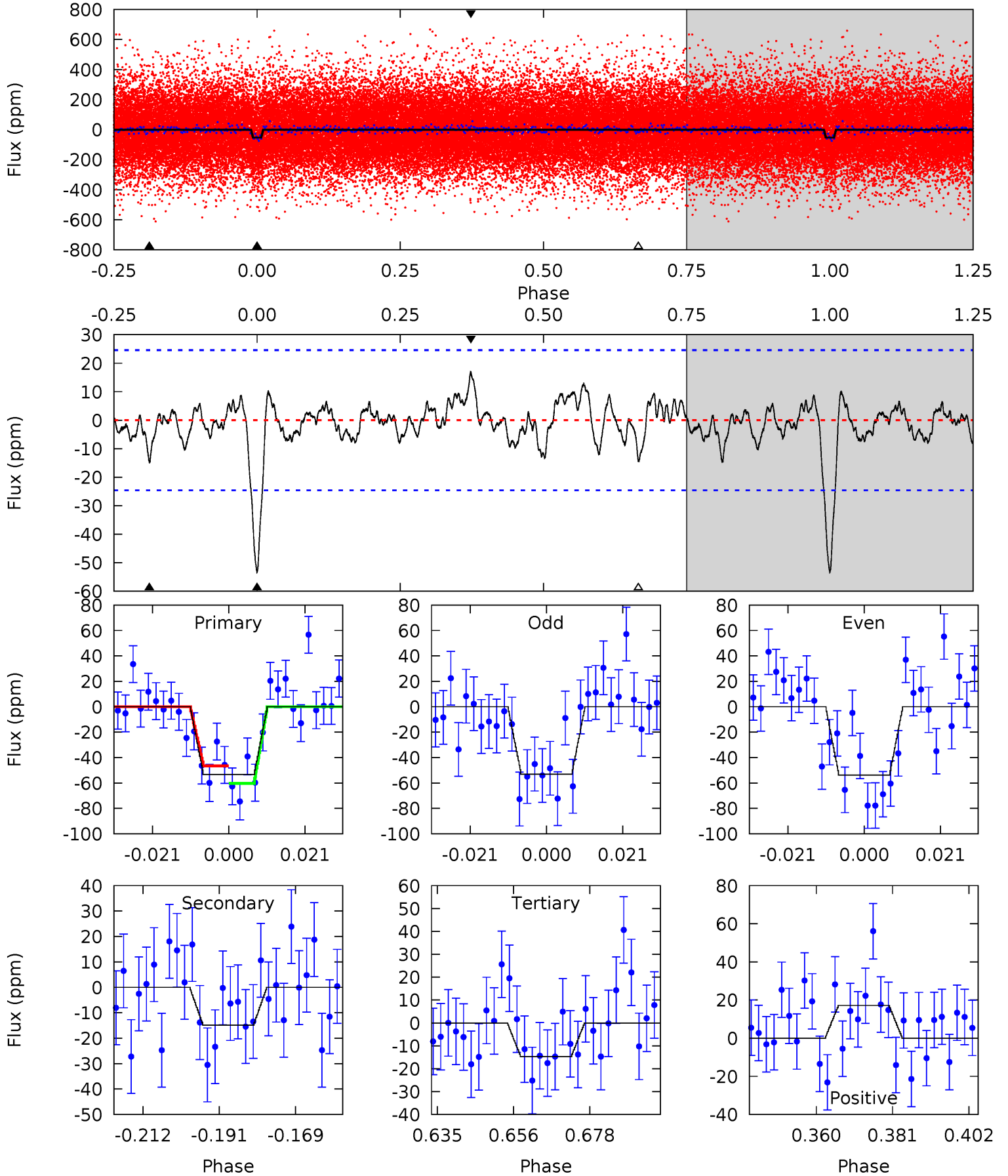
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.8	4.13	4.04	2.67	4.86	2.28	1.04	7.73	9.10	0.09	1.46	0.50	1.00	0.18	1.41



Alt Model-Shift Uniqueness Test

006265961-01, P = 5.525069 Days, E = 129.630084 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	2.94	2.91	3.41	4.88	2.30	1.08	7.69	7.18	0.04	-0.47	0.08	1.07	0.24	1.37



Stellar Parameters For KIC 006265961

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5600^{+75}_{-75}	$4.378^{+0.110}_{-0.110}$	$0.100^{+0.150}_{-0.150}$	$1.037^{+0.152}_{-0.114}$	$0.936^{+0.065}_{-0.048}$	$1.183^{+0.524}_{-0.363}$
	+1%/-1%	+3%/-3%	+150%/-150%	+15%/-11%	+7%/-5%	+44%/-31%
Source	SPE90	SPE90	SPE90	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006265961-01 / KOI 6680.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-20 ± 5	$1.05^{+0.71}_{-0.61}$	1436^{+61}_{-57}	4127^{+1835}_{-676}	35^{+164}_{-23}
Alt.	-15 ± 5	$0.98^{+0.72}_{-0.57}$	1437^{+58}_{-53}	3966^{+1817}_{-669}	28^{+147}_{-19}

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

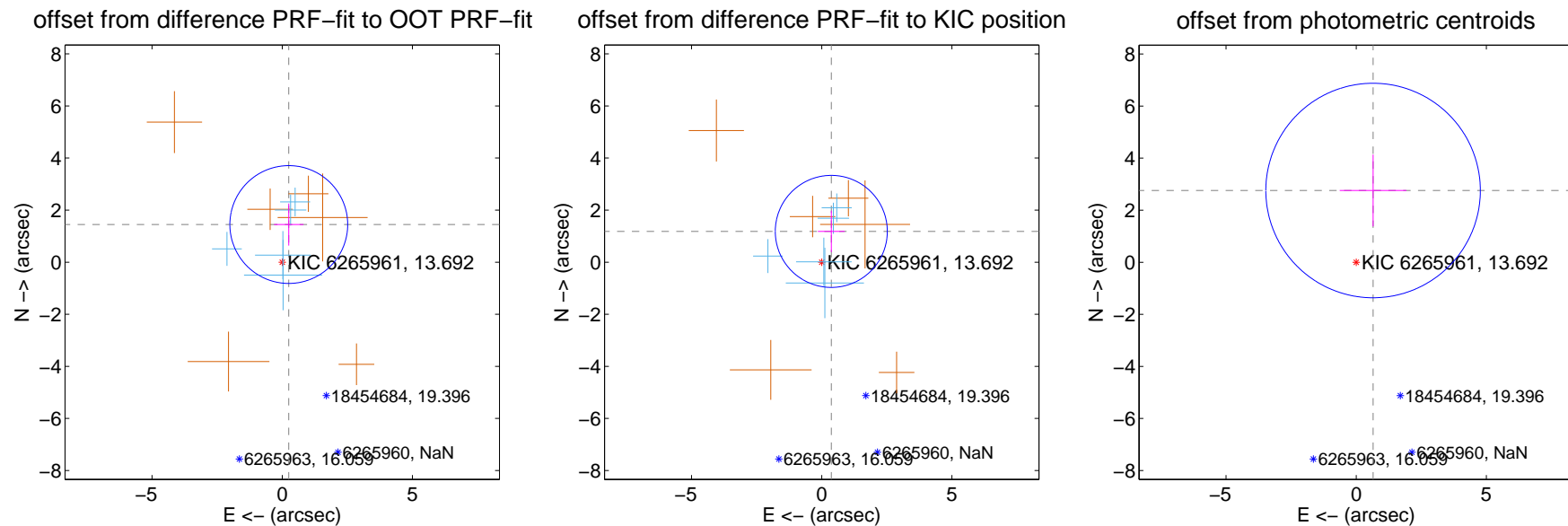
DV Centroid Data

Supplemental centroid analysis for 006265961-01. Kepler magnitude: 13.69. Transit SNR 8.87

There are 5 quarters with good PRF difference image offsets

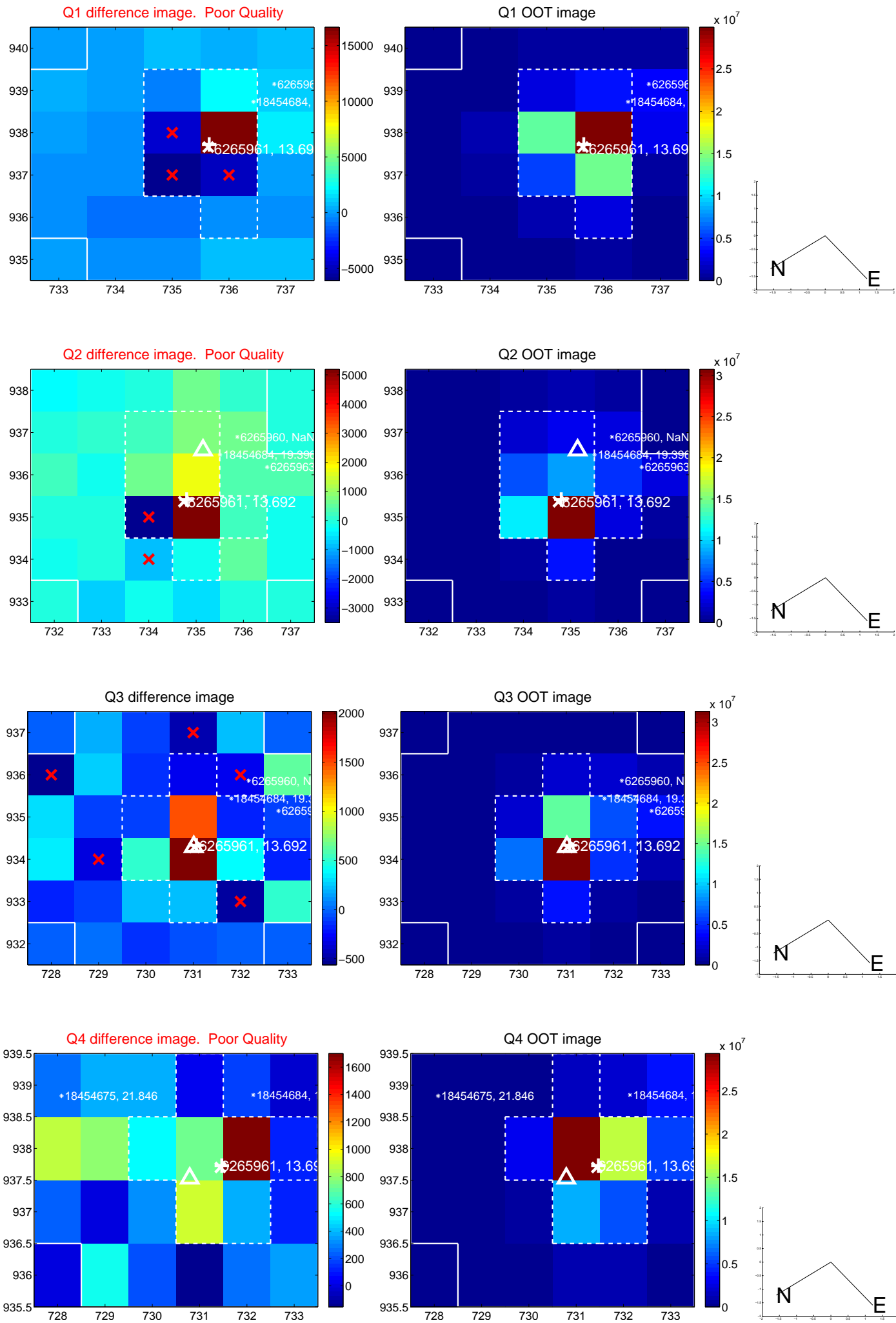
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.468 ± 0.754	1.95	-0.252 ± 0.565	1.446 ± 0.807
PRF-fit source offset from KIC position	1.238 ± 0.717	1.73	-0.368 ± 0.517	1.183 ± 0.795
photometric centroid source offset	2.83 ± 1.37	2.06	-0.65 ± 1.28	2.76 ± 1.38

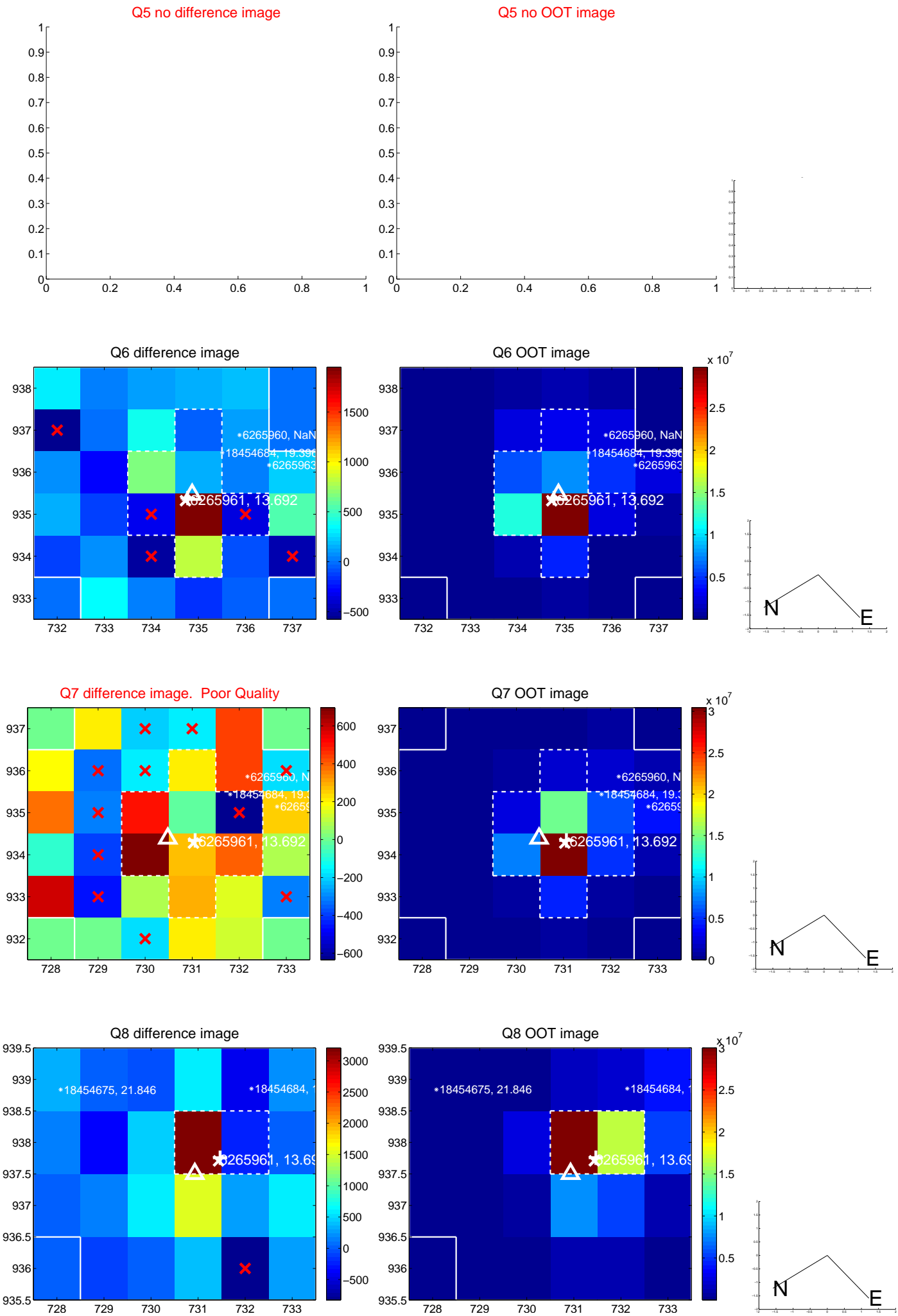


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

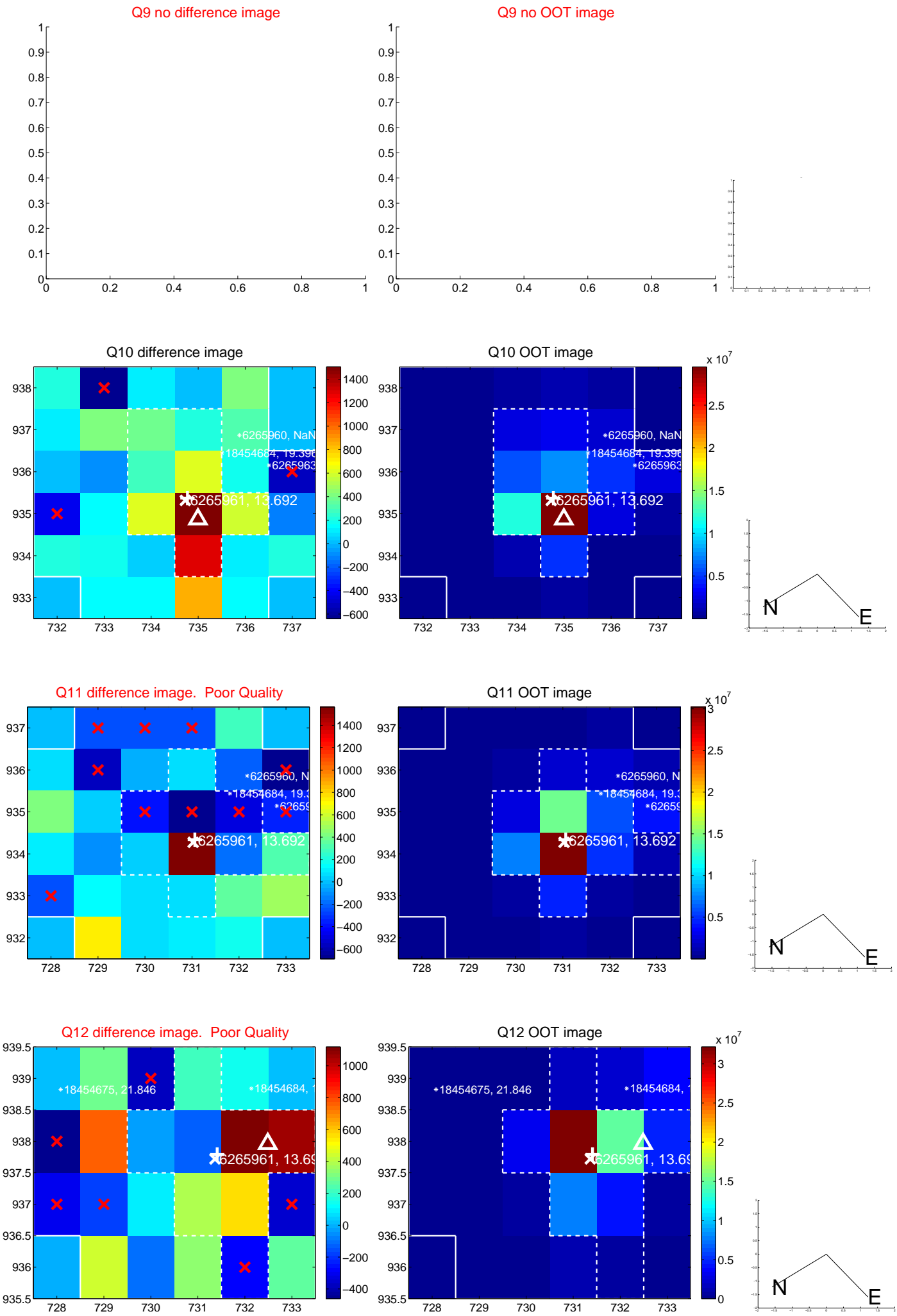
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



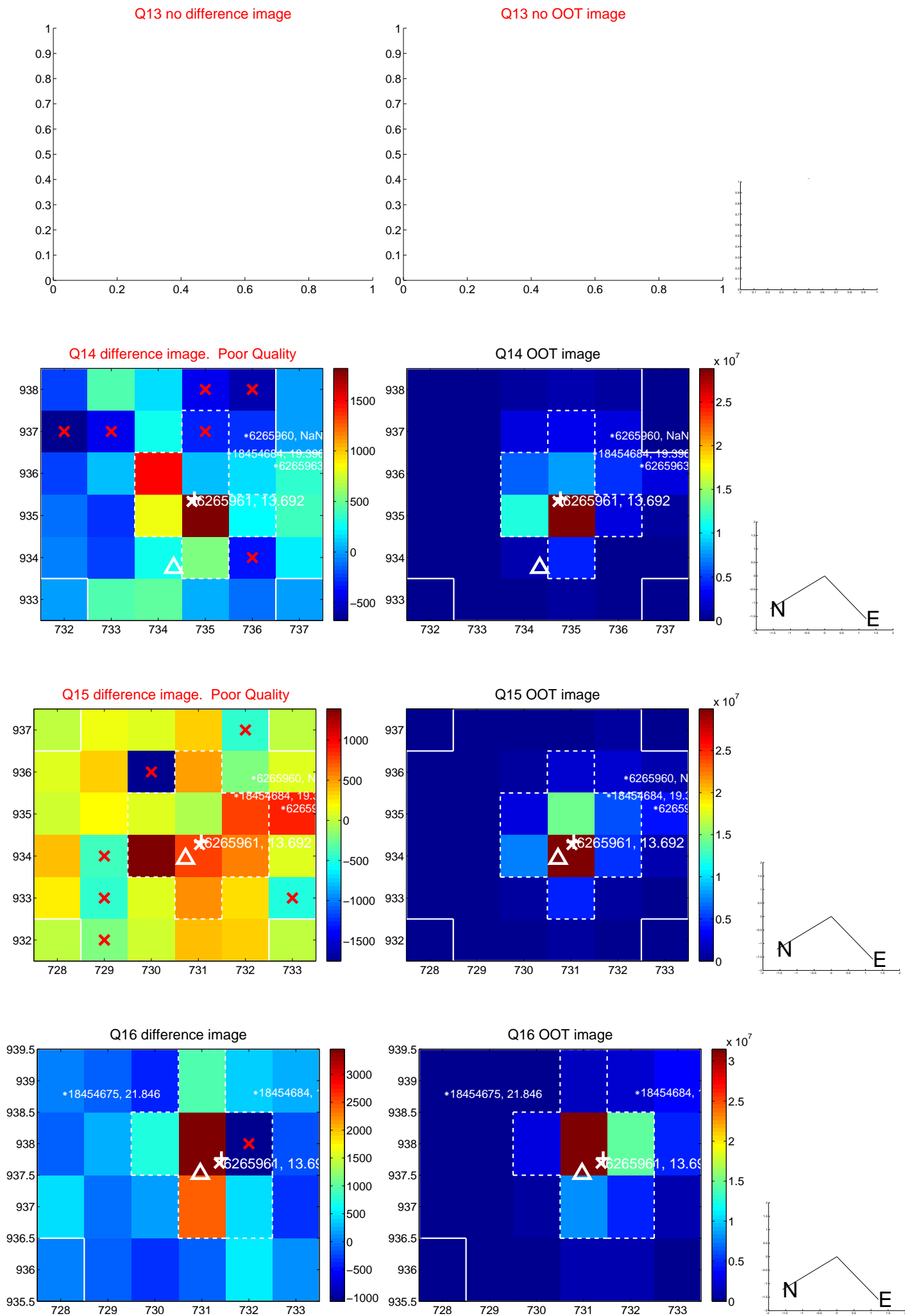
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



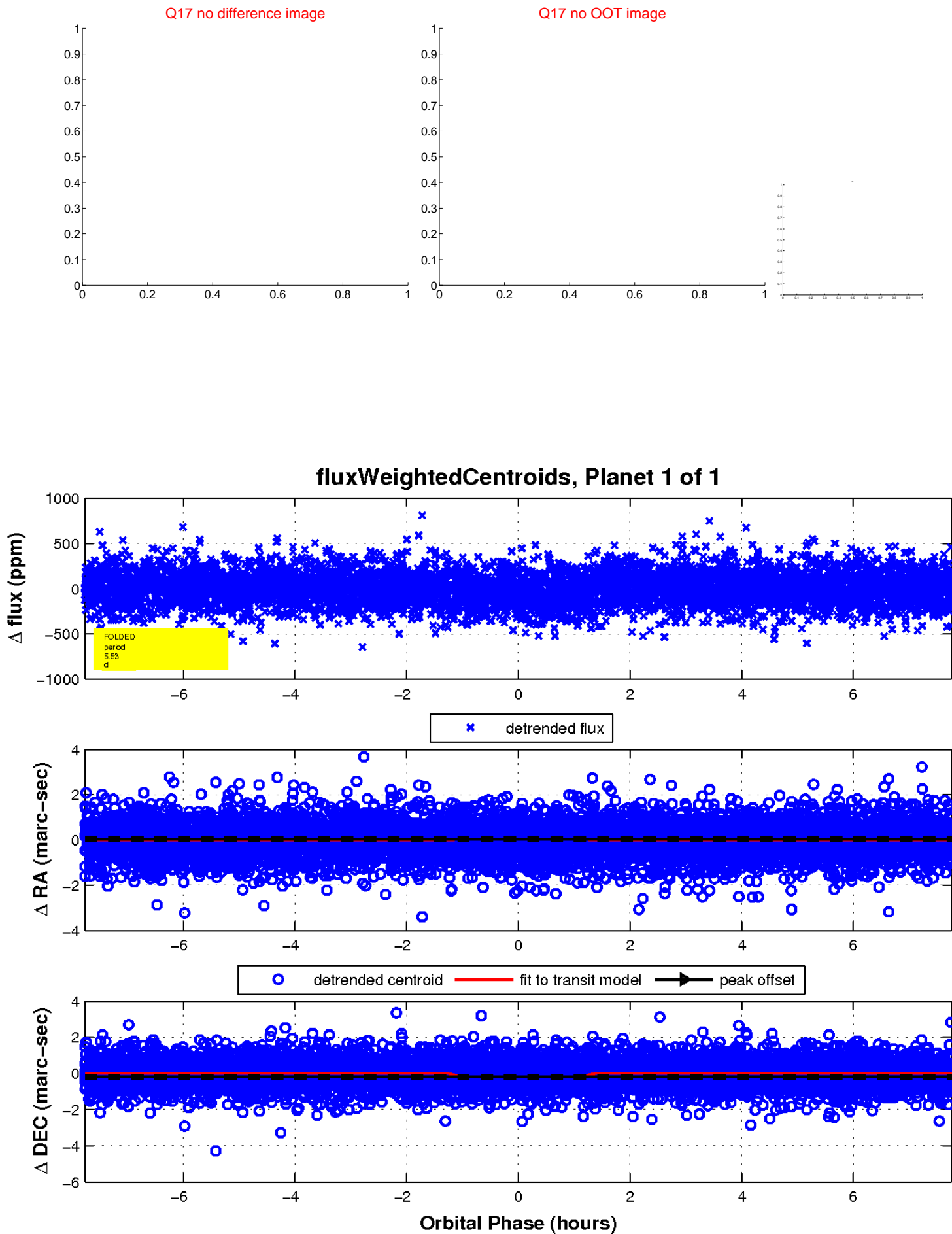
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

