

KIC 005267867

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})
005267867-01	OBS	No	1.128279	131.983178	176.6	4.710	8.9	9.5	1.84	7384	2.83	15044.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005267867-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

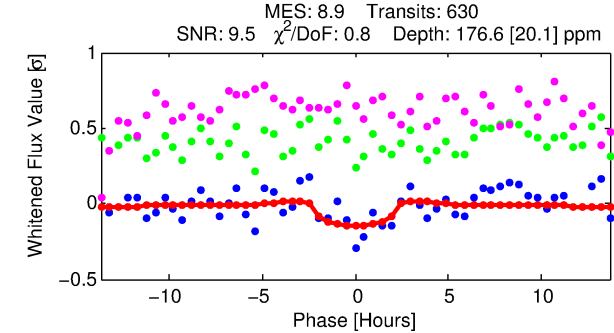
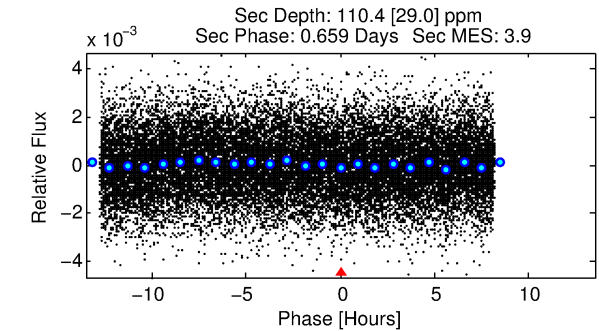
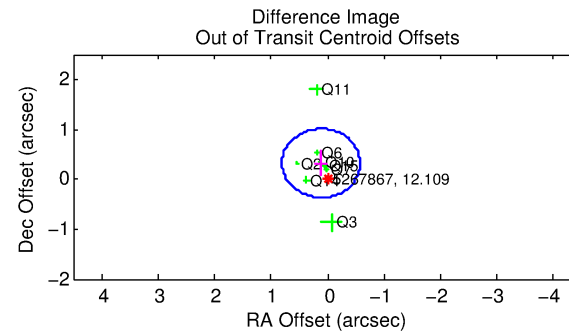
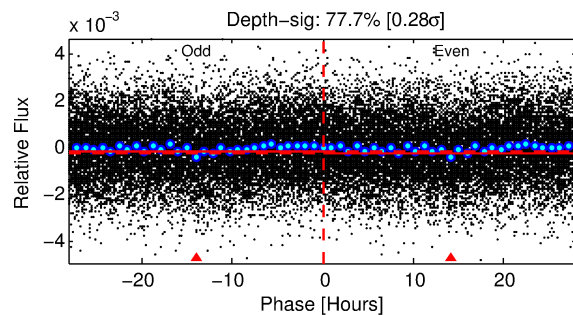
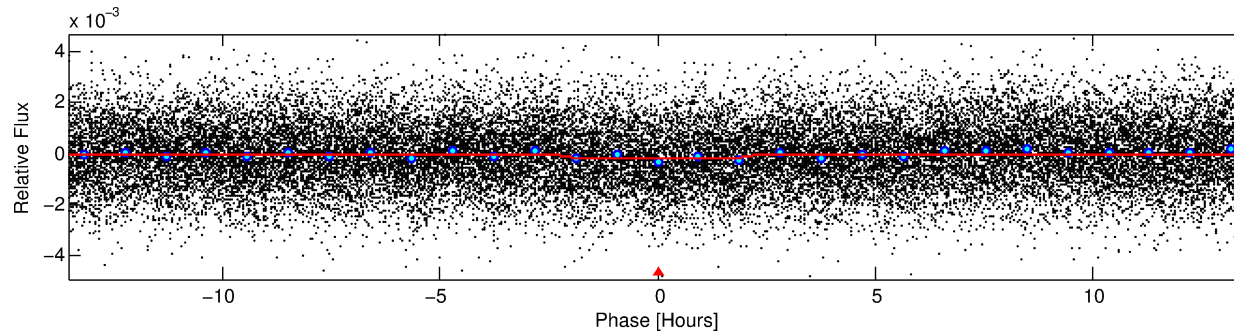
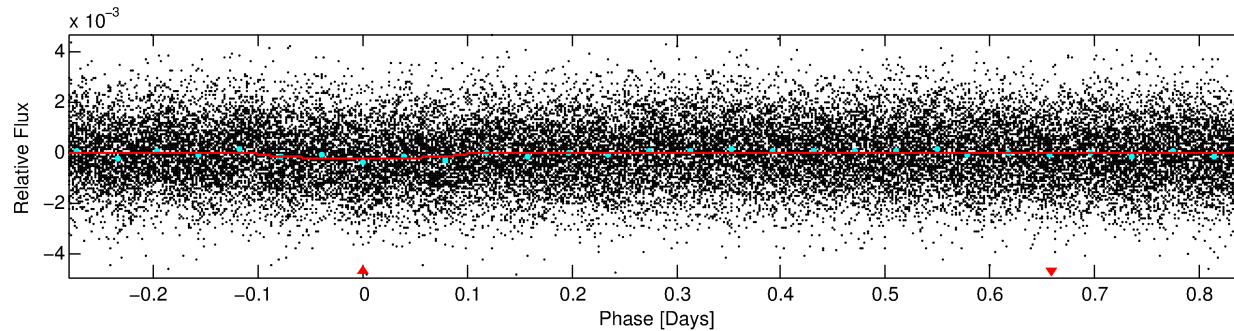
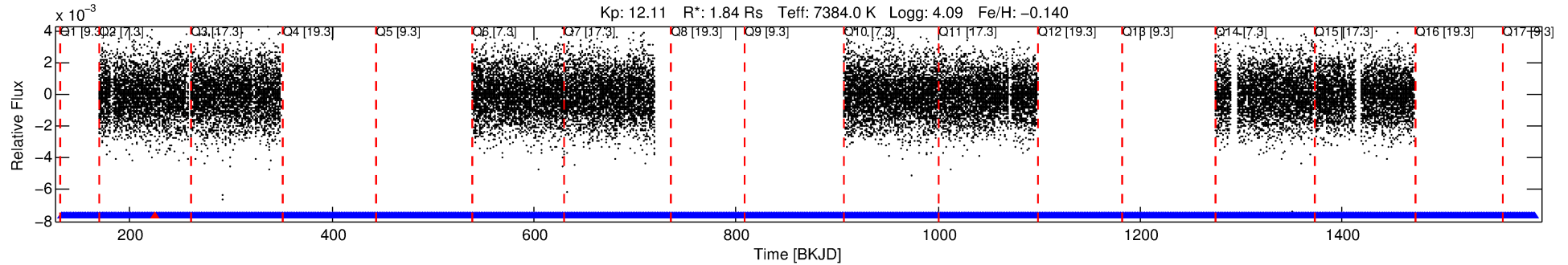
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005267867-01

No Significant Match Found

DV One-Page Summary

KIC: 5267867 Candidate: 1 of 1 Period: 1.128 d



DV Fit Results:

Period = 1.12828 [0.00001] d
Epoch = 131.9832 [0.0054] BKJD
Rp/R* = 0.0141 [0.0045]
a/R* = 1.28 [0.97]
b = 0.89 [0.44]
Seff = 15044.73 [5723.25]
Teff = 2824 [269] K
Rp = 2.83 [1.23] Re
a = 0.0245 [0.0059] AU
Ag = 4.54 [3.51] [1.01 σ]
Teffp = 6372 [1138] K [3.03 σ]

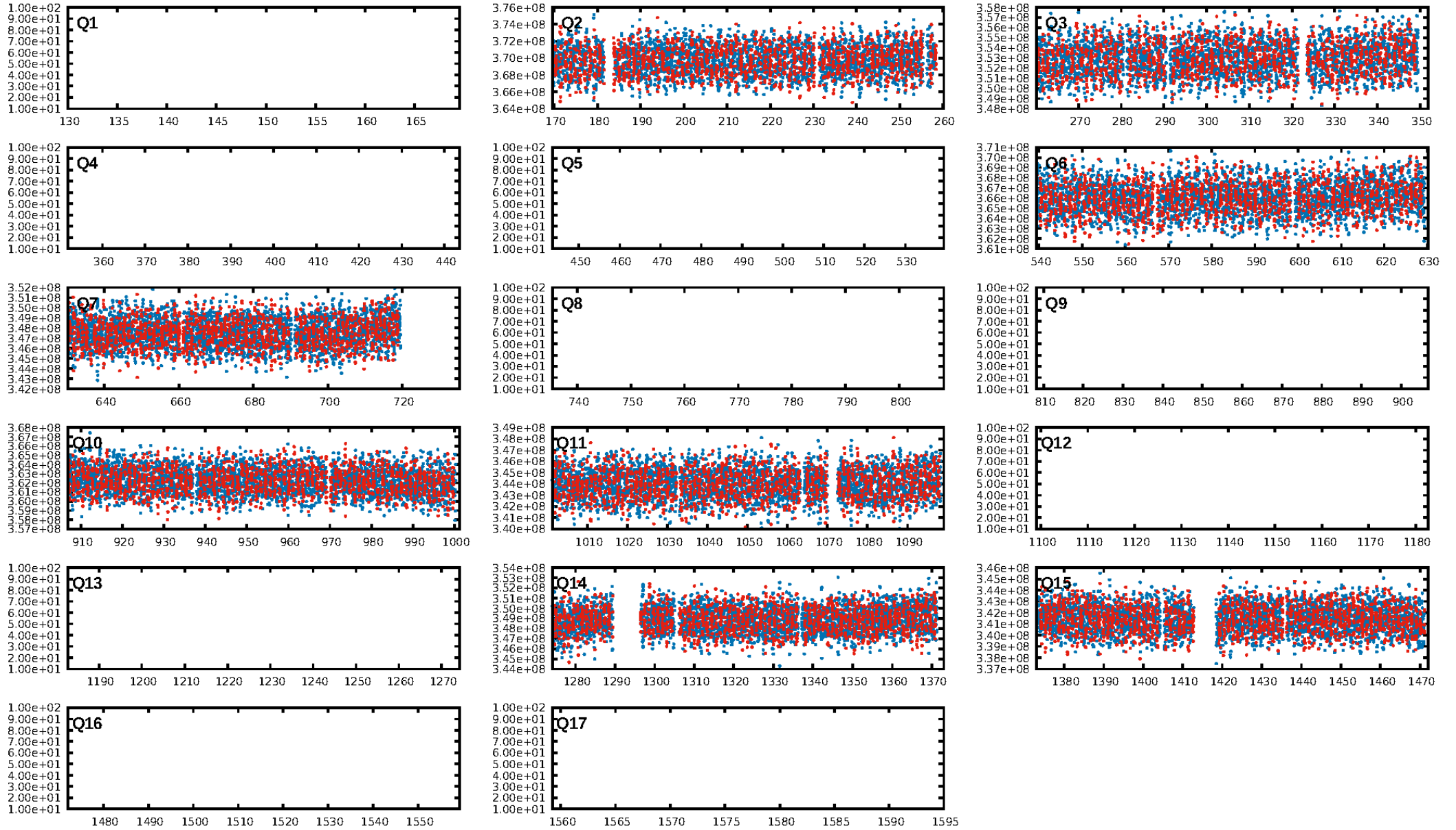
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.56e-19
RollingBand-fgt: 1.00 [629/630]
GhostDiagnostic-chr: 0.7152
Centroid-sig: 18.8%
Centroid-so: 0.321 arcsec [4.48 σ]
OotOffset-rm: 0.339 arcsec [1.47 σ]
KicOffset-rm: 0.158 arcsec [1.11 σ]
OotOffset-st: 4/4/0/0 [8]
KicOffset-st: 4/4/0/0 [8]
DiffImageQuality-fgm: 1.00 [8/8]
DiffImageOverlap-fno: 1.00 [8/8]

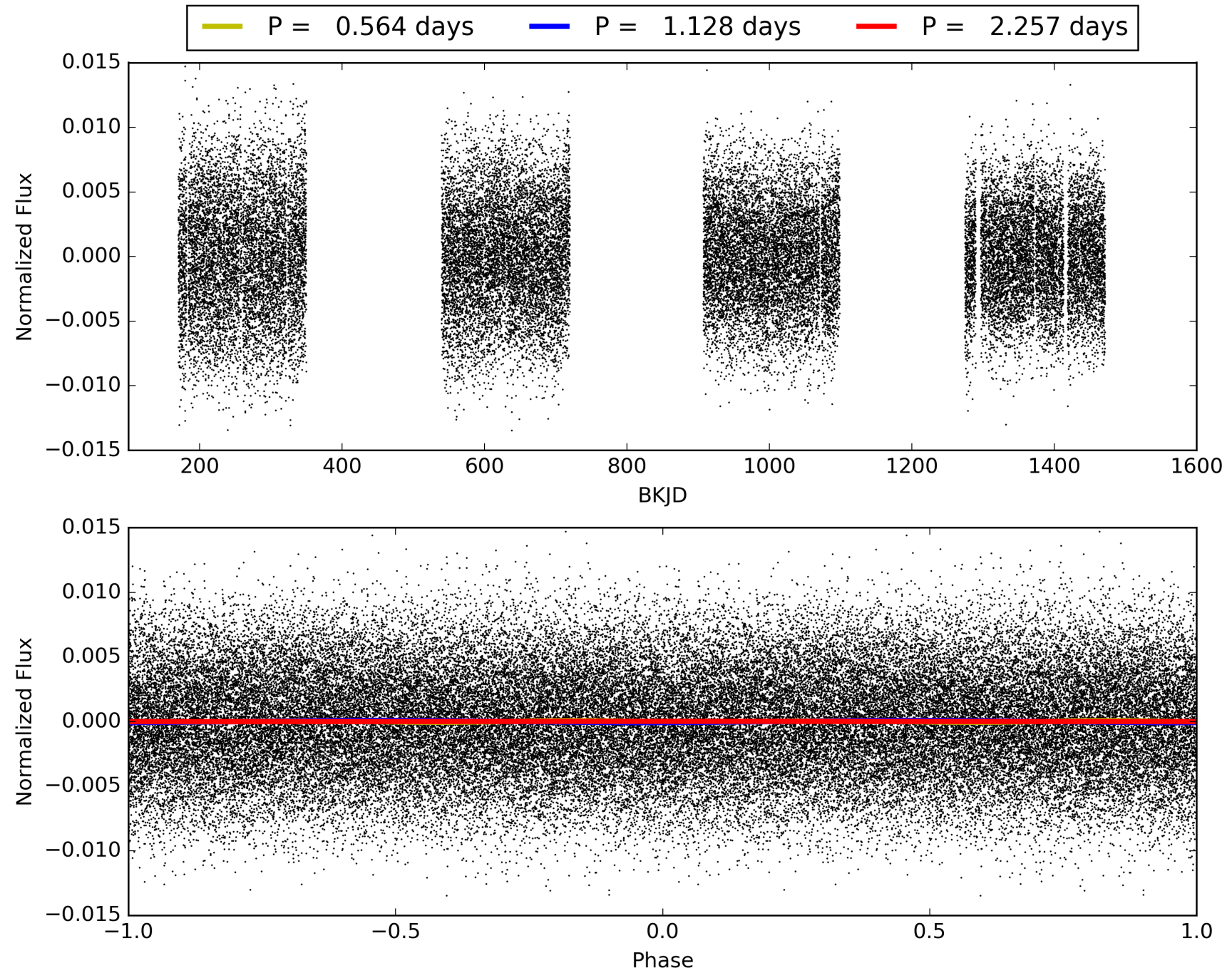
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 13:19:16 Z

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

TCE 005267867-01, PDC Light Curves

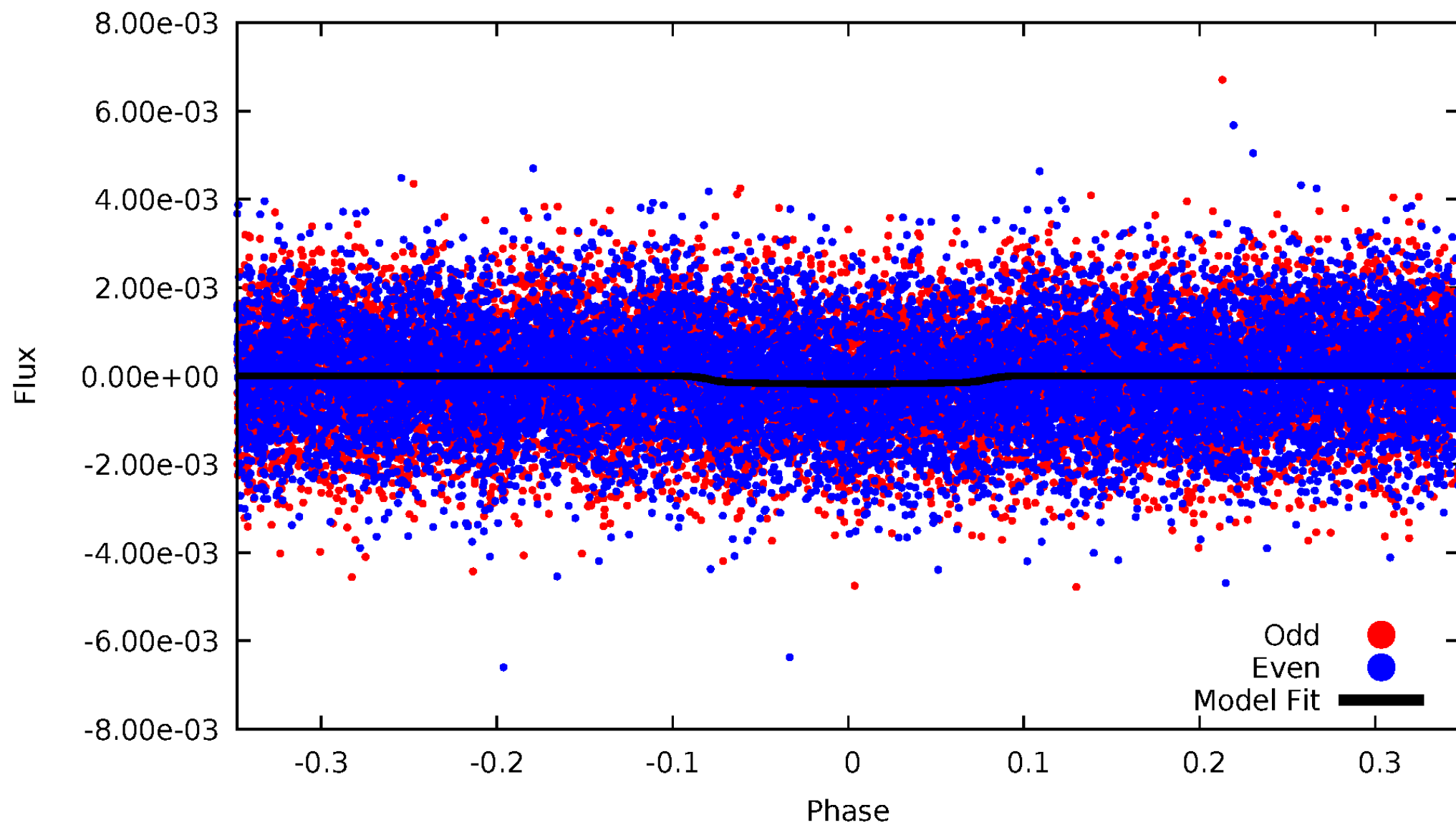


TCE 005267867-01



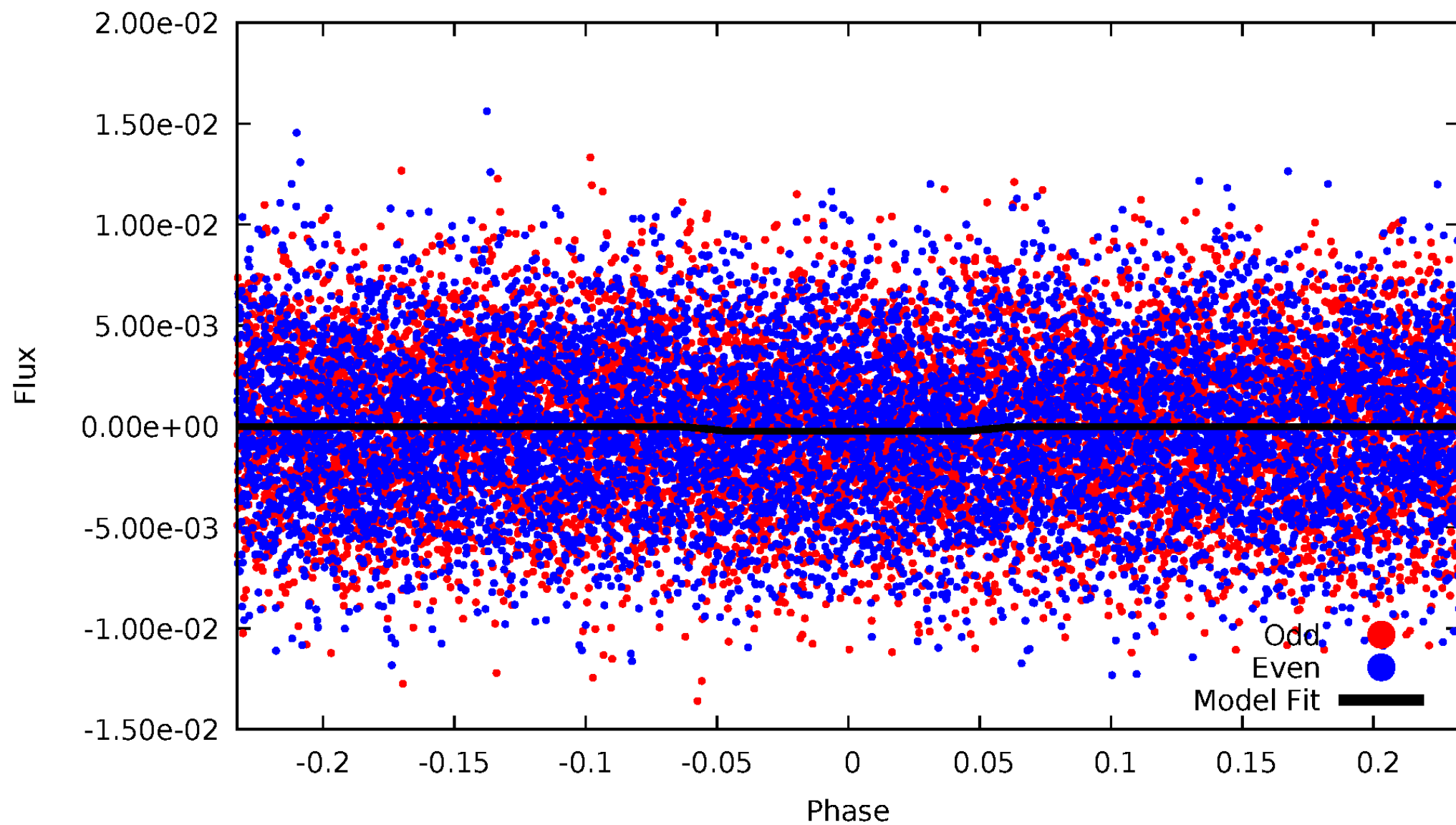
DV Odd/Even

TCE 005267867-01

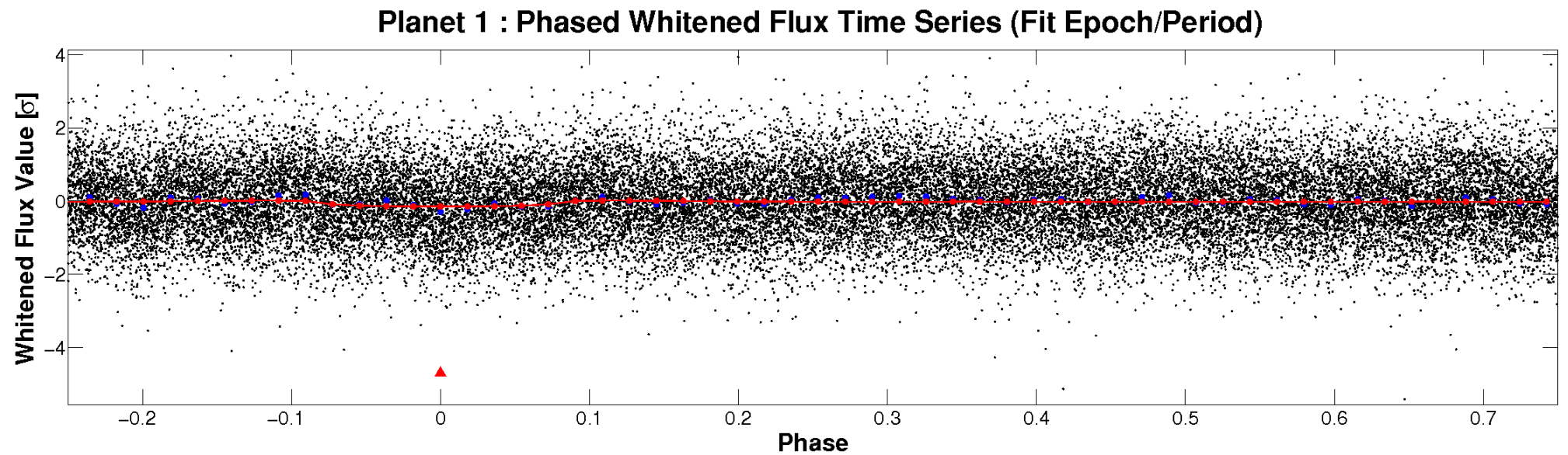
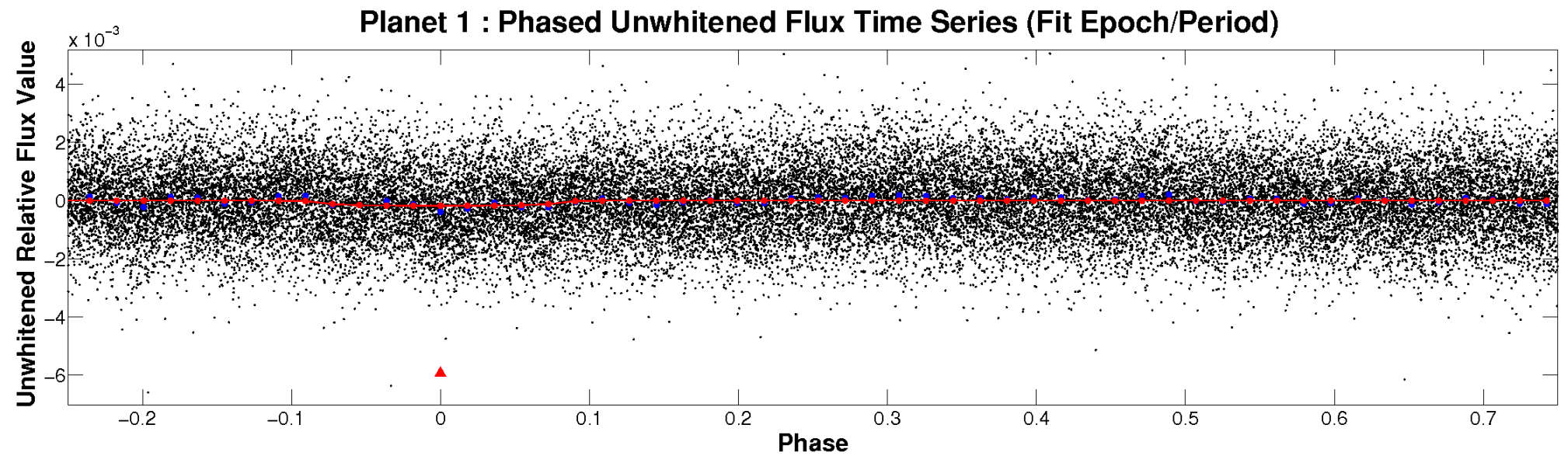


ALT Odd/Even

TCE 005267867-01

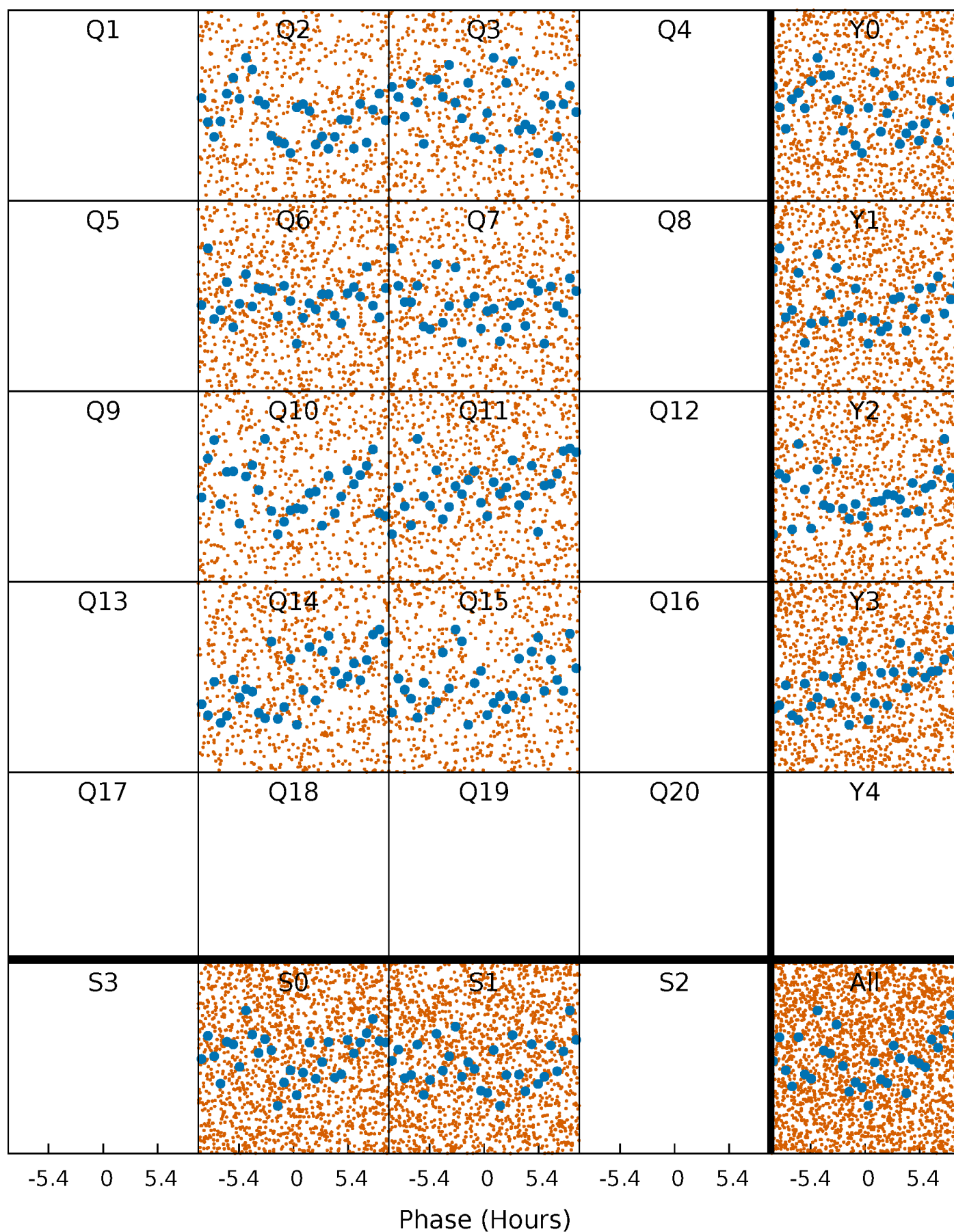


Non-Whitened Vs. Whitened Light Curve



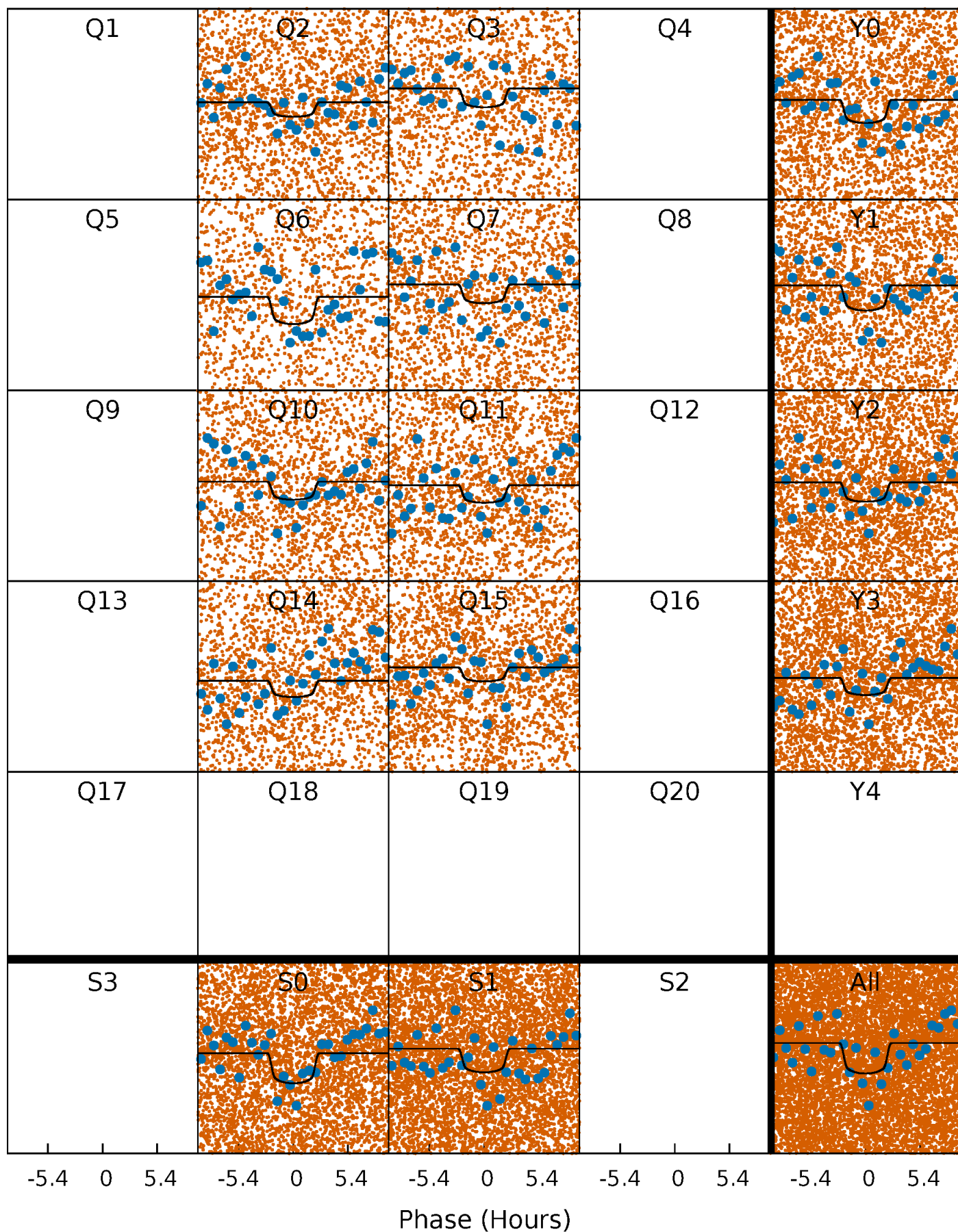
PDC Quarter-Phased Transit Curves

TCE 005267867-01 P= 1.128279 Days $T_0=131.983178$ (BKJD)



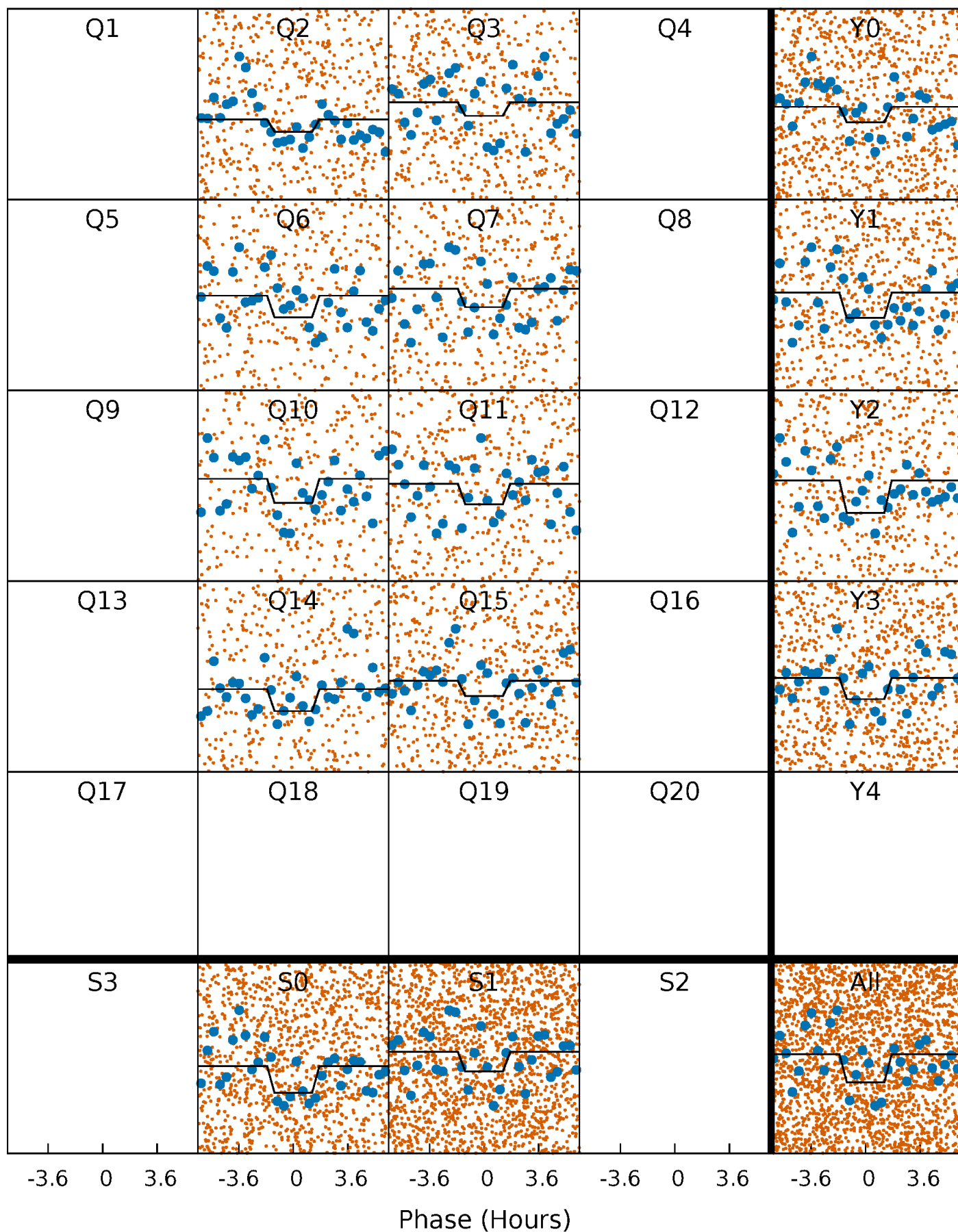
DV Quarter-Phased Transit Curves

TCE 005267867-01 P= 1.128279 Days $T_0=131.983178$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

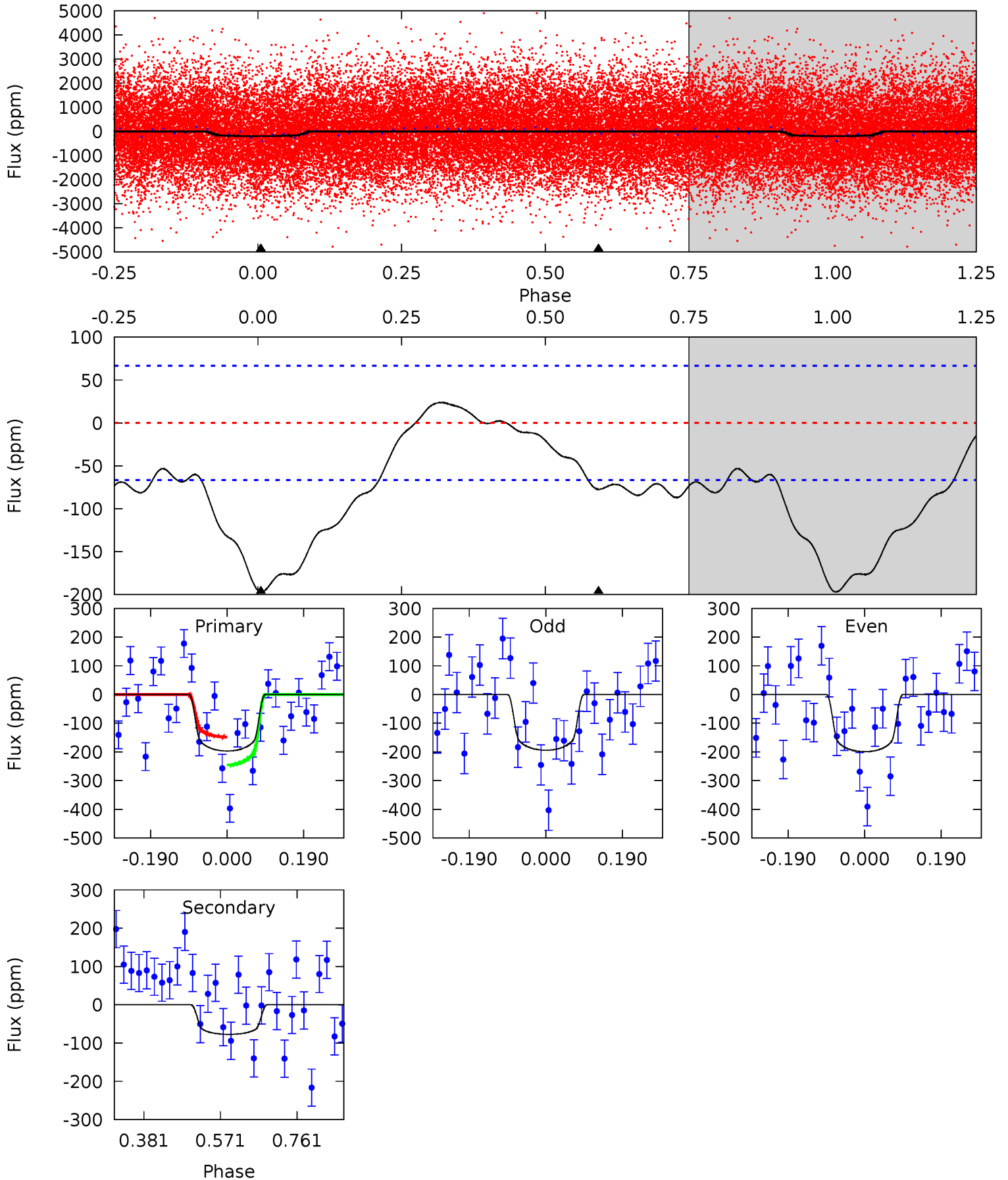
TCE 005267867-01 P= 1.128307 Days $T_0=131.931803$ (BKJD)



DV Model-Shift Uniqueness Test

005267867-01, P = 1.128279 Days, E = 131.983178 Days

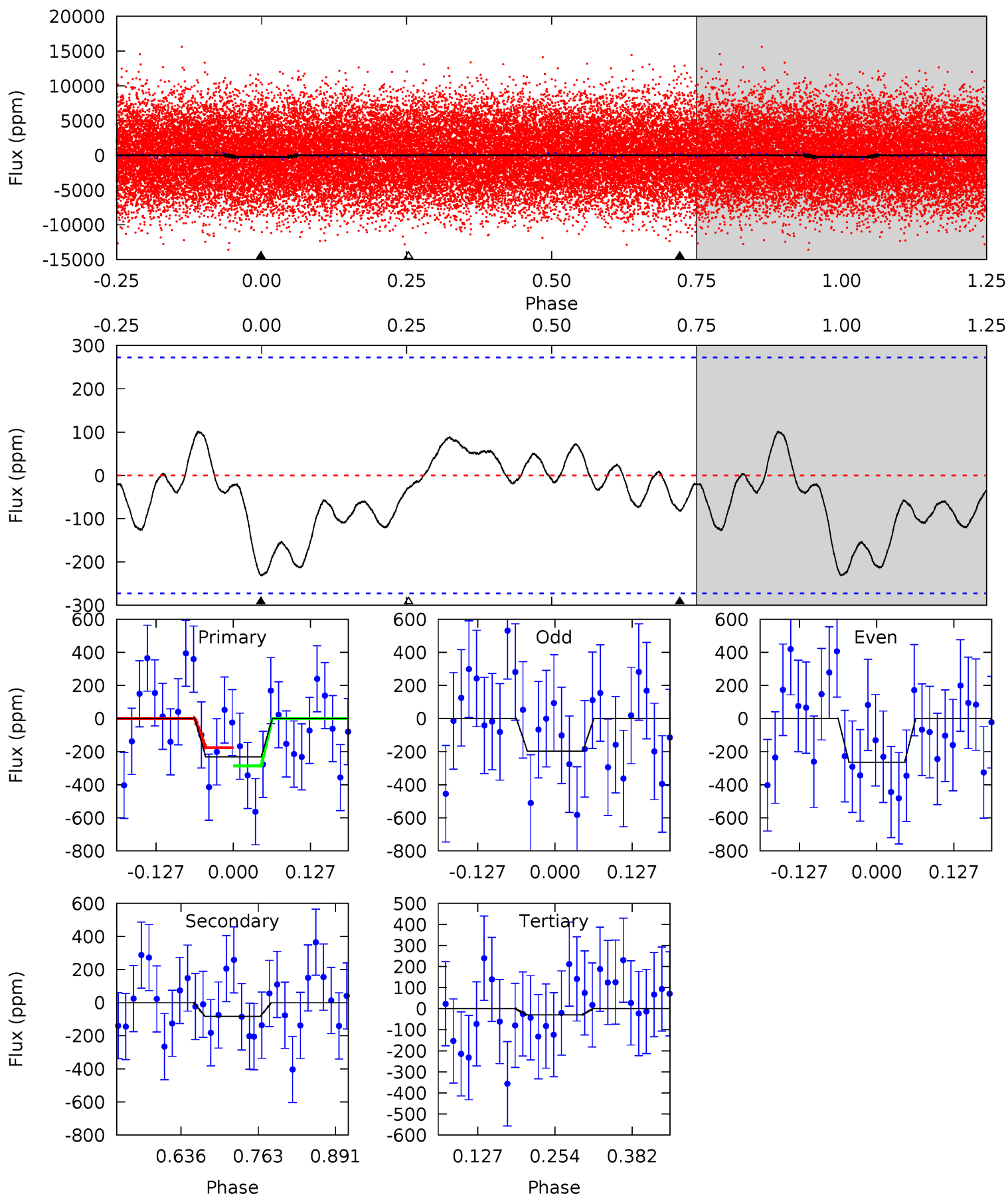
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.1	5.14	0	0	4.43	1.31	2.47	13.1	13.1	5.14	5.14	0.17	1.09	0.11	3.25



Alt Model-Shift Uniqueness Test

005267867-01, P = 1.128307 Days, E = 131.931803 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.83	1.36	0.50	0	4.51	1.53	0.96	3.33	3.83	0.87	1.36	0.56	0.83	0.30	0.91



Stellar Parameters For KIC 005267867

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7384^{+233}_{-311}	$4.095^{+0.165}_{-0.182}$	$-0.140^{+0.250}_{-0.350}$	$1.840^{+0.540}_{-0.442}$	$1.534^{+0.222}_{-0.244}$	$0.347^{+0.301}_{-0.160}$
	+3%/-4%	+4%/-4%	+179%/-250%	+29%/-24%	+14%/-16%	+87%/-46%
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 005267867-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-77 ± 15	$2.87^{+1.04}_{-1.03}$	3935^{+300}_{-265}	5544^{+1418}_{-799}	$3.026^{+4.277}_{-1.451}$
Alt.	-82 ± 60	$3.01^{+1.00}_{-0.91}$	3953^{+289}_{-298}	5442^{+1535}_{-1611}	$2.891^{+4.377}_{-2.211}$

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 $A_{obs} \gg 1.0$

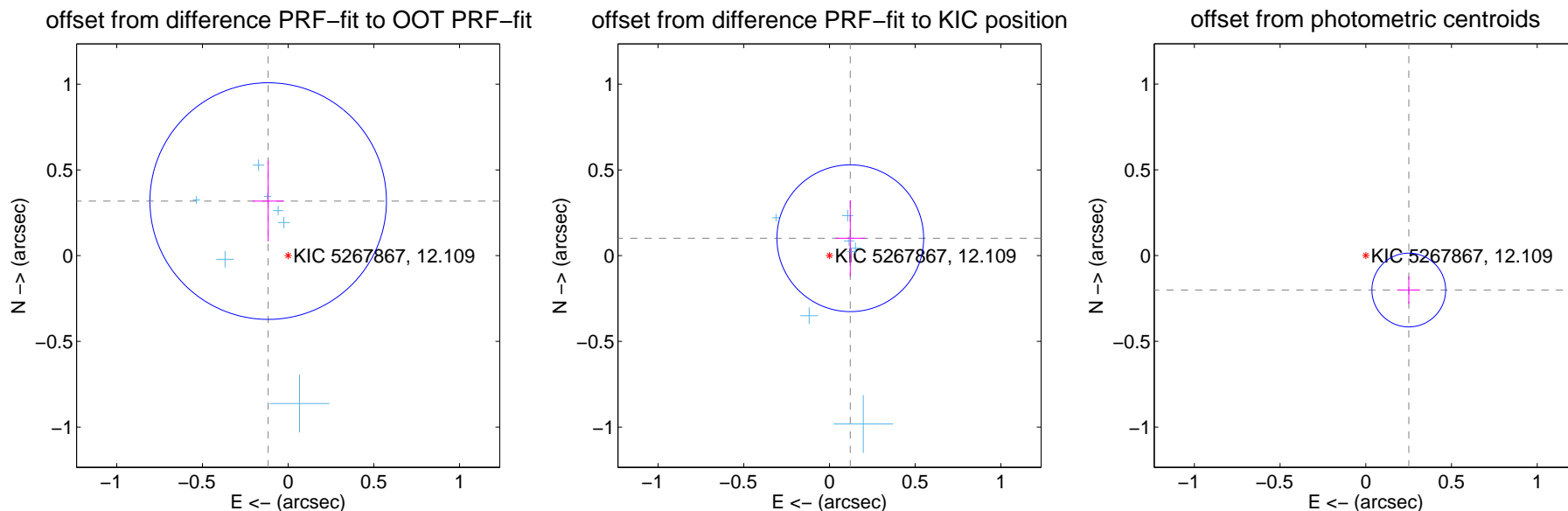
DV Centroid Data

Supplemental centroid analysis for 005267867-01. Kepler magnitude: 12.11. Transit SNR 9.54

There are 8 quarters with good PRF difference image offsets

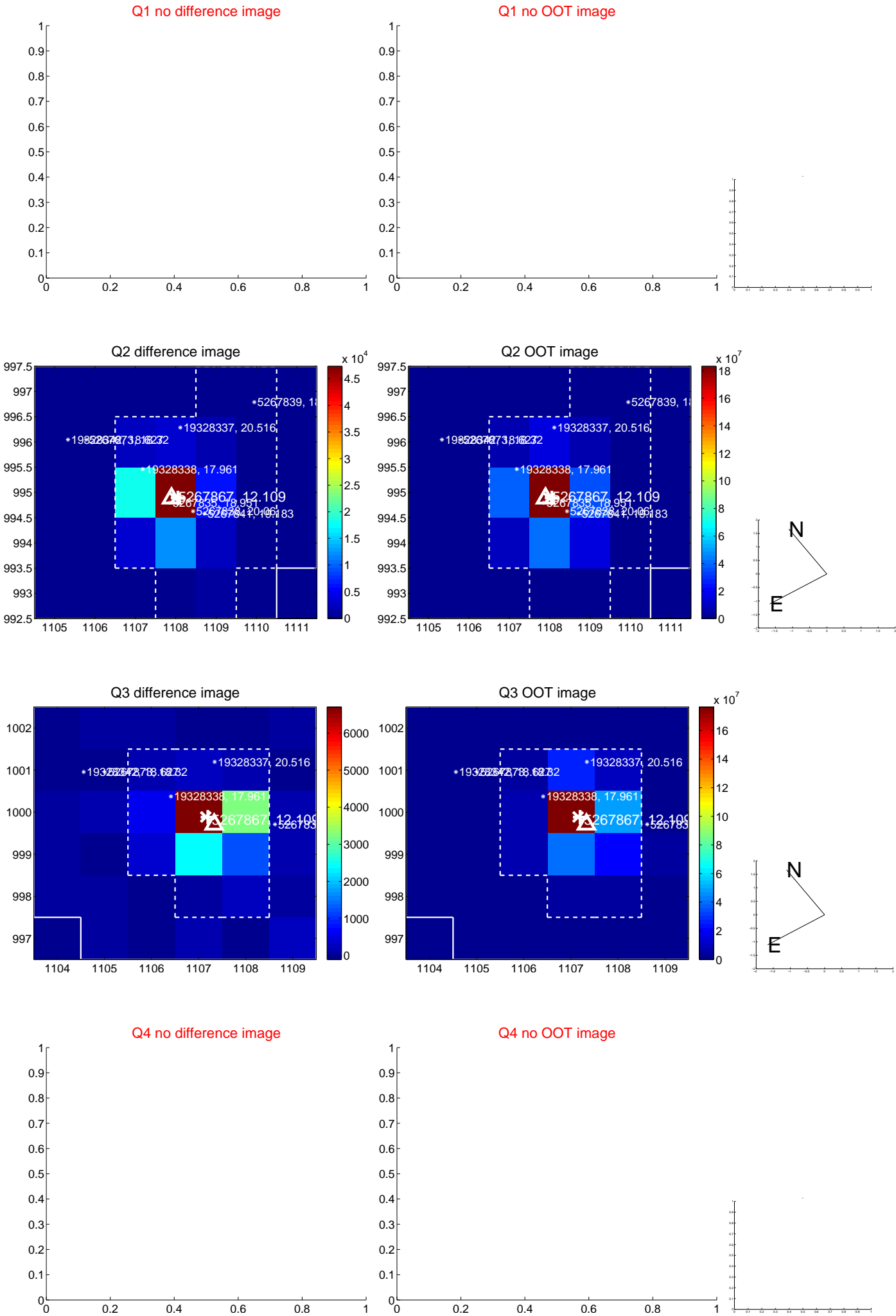
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.339 ± 0.230	1.47	0.116 ± 0.092	0.318 ± 0.235
PRF-fit source offset from KIC position	0.158 ± 0.143	1.11	-0.121 ± 0.087	0.102 ± 0.221
photometric centroid source offset	0.32 ± 0.07	4.48	-0.25 ± 0.07	-0.20 ± 0.08

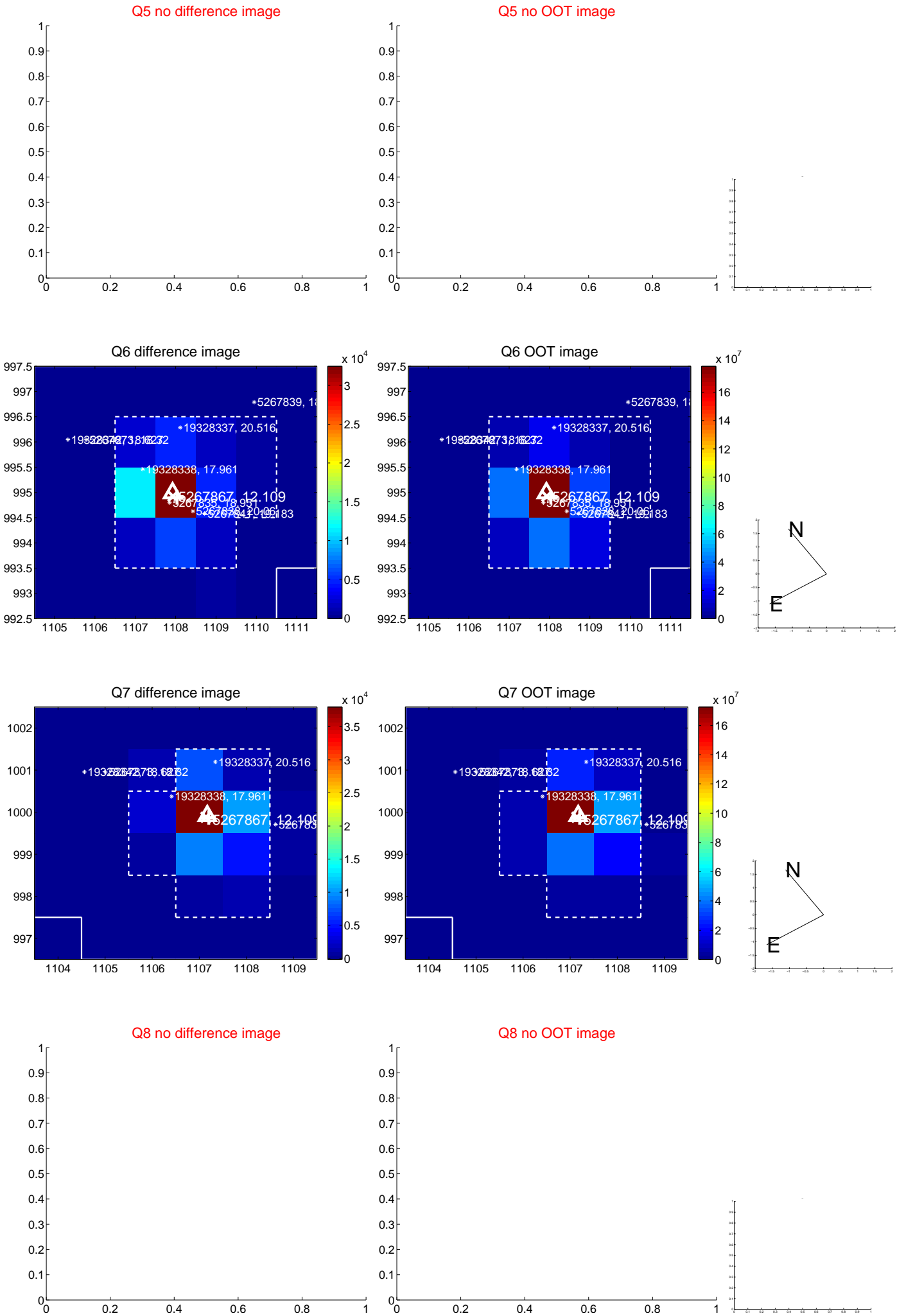


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

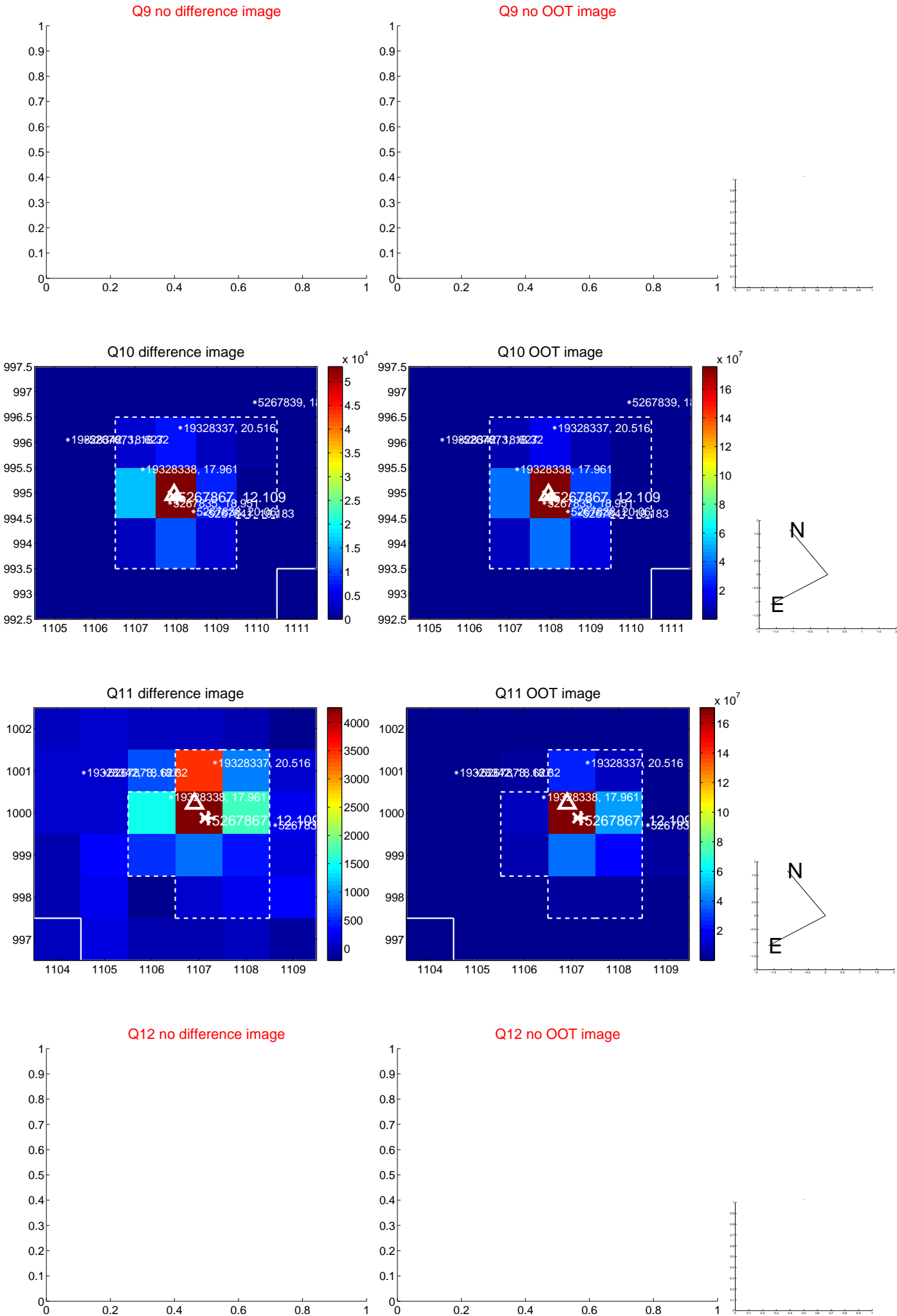
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



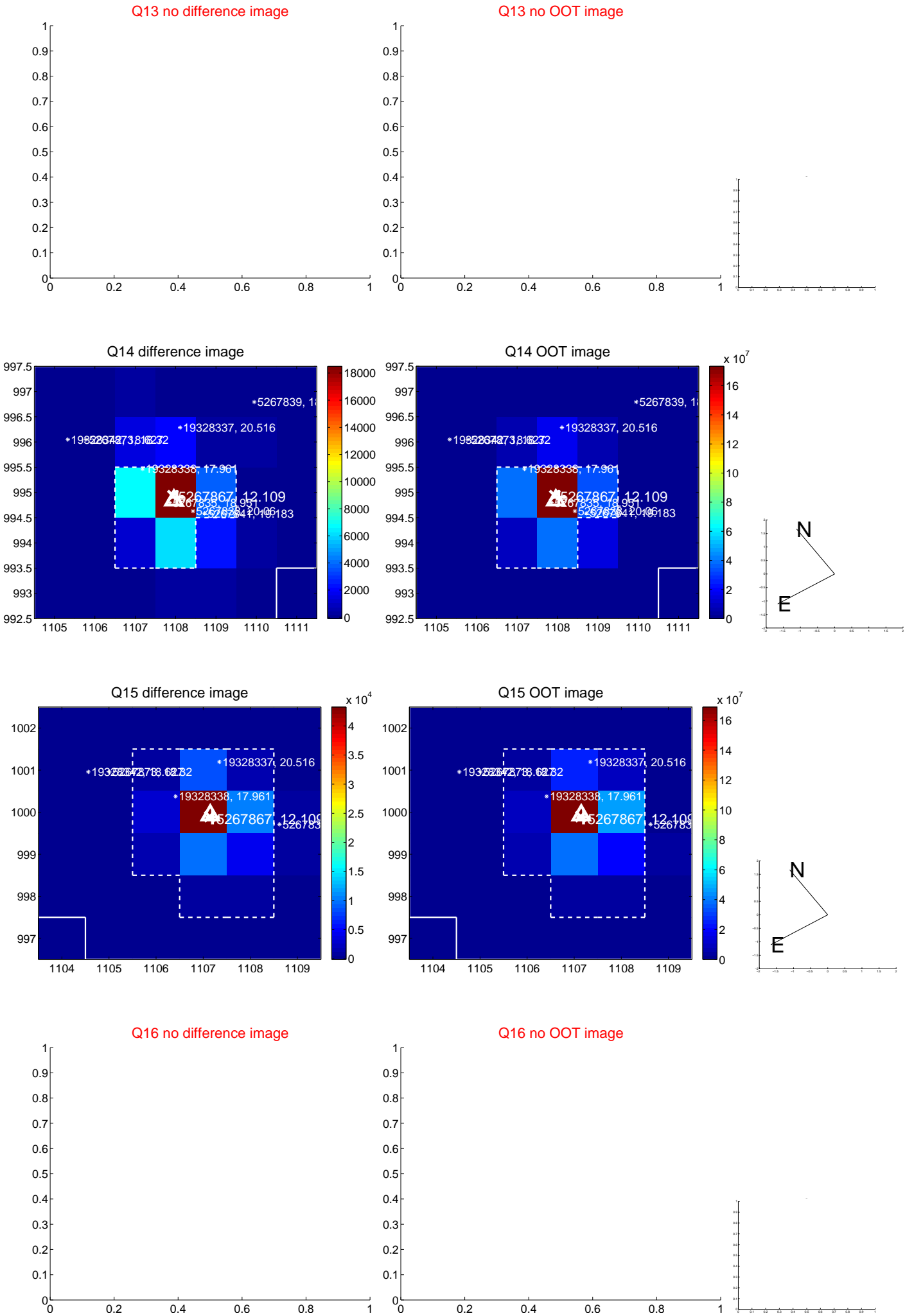
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



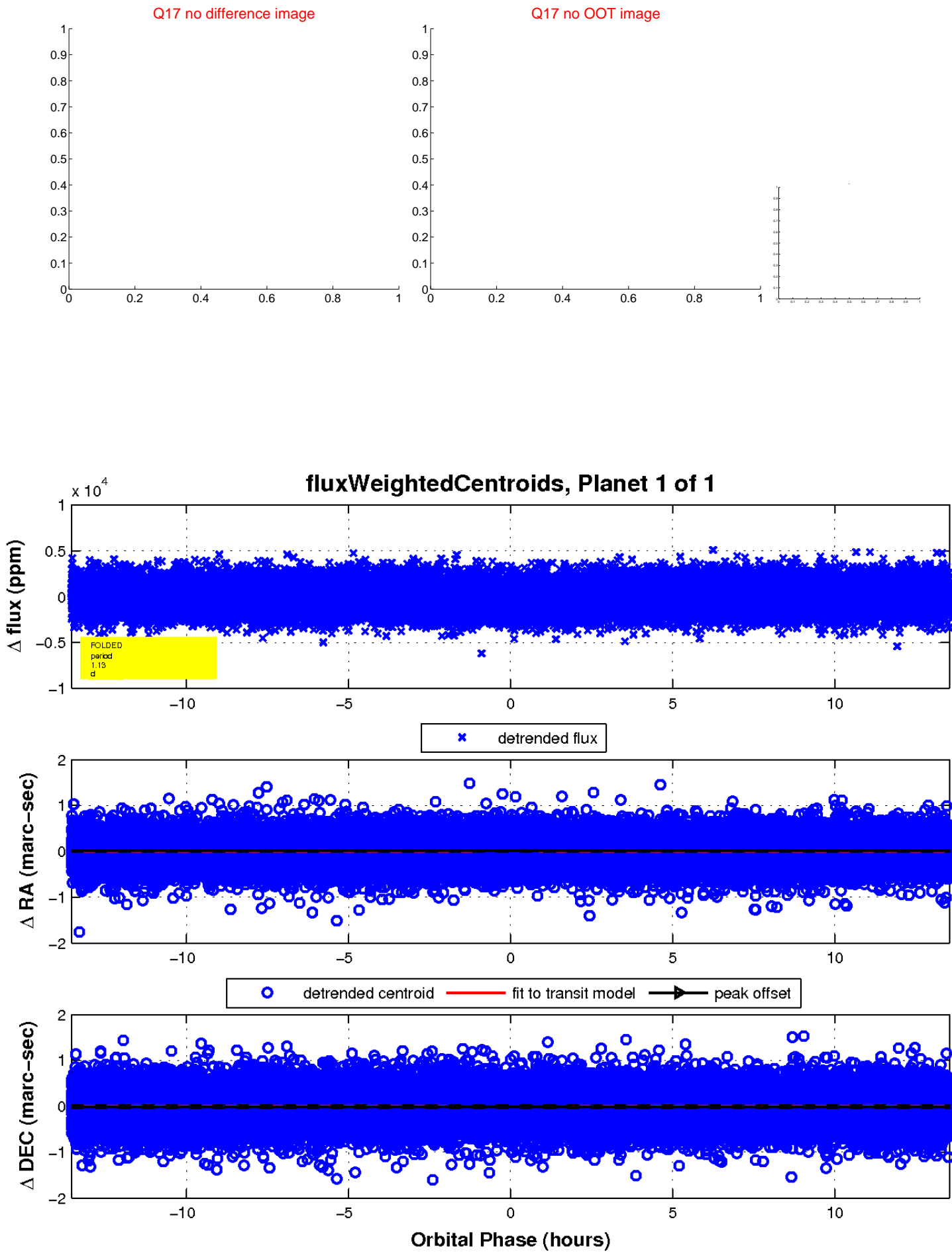
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

