

KIC 003347395

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})
003347395-01	OBS	No	0.663630	131.582126	3.6	5.046	11.5	8.8	2.77	9005	0.61	131288.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003347395-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED

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

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

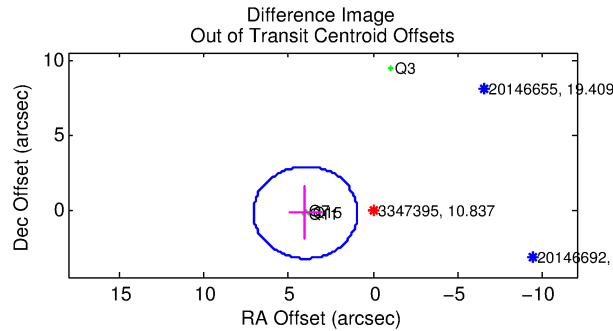
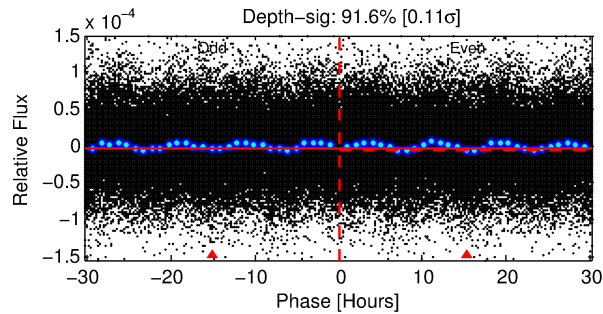
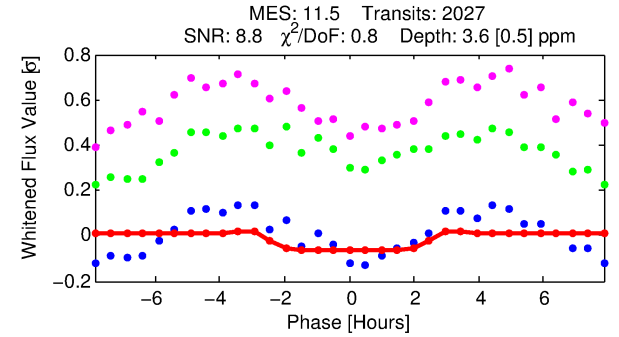
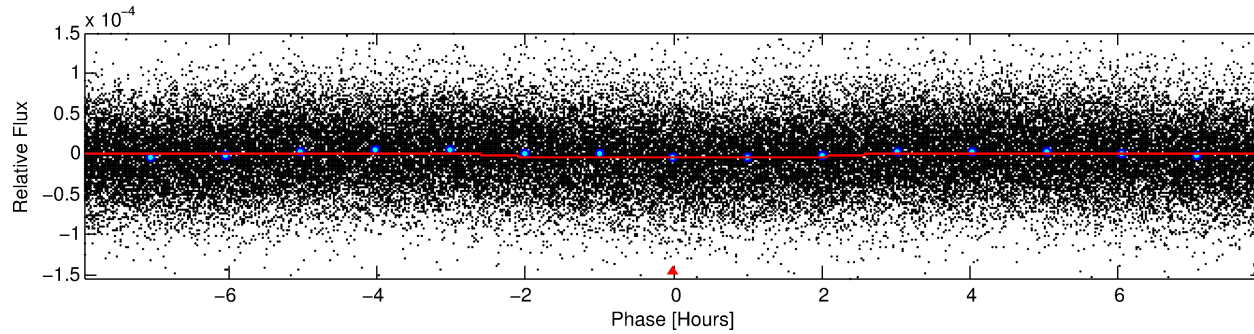
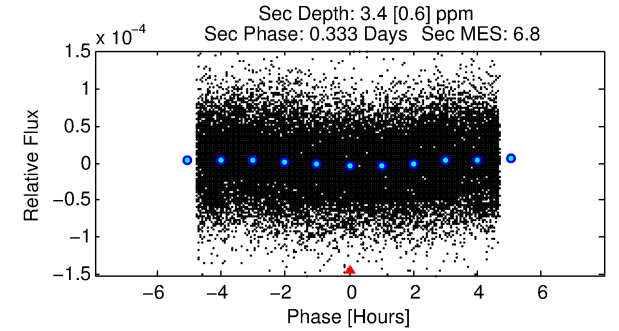
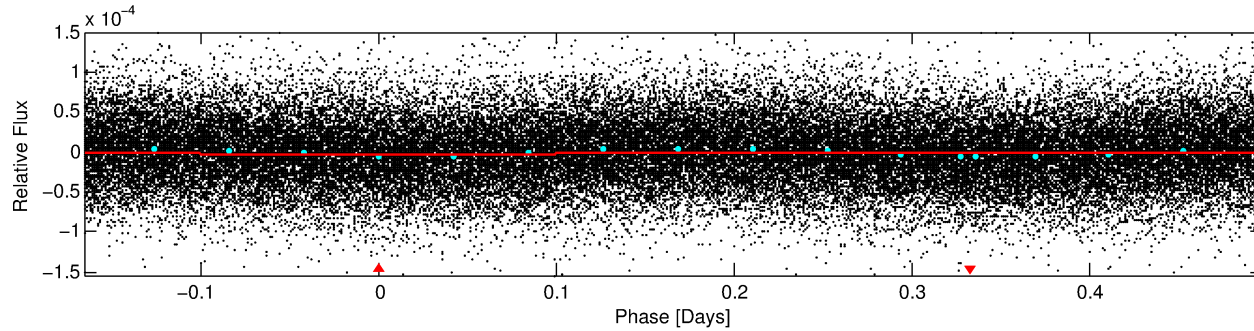
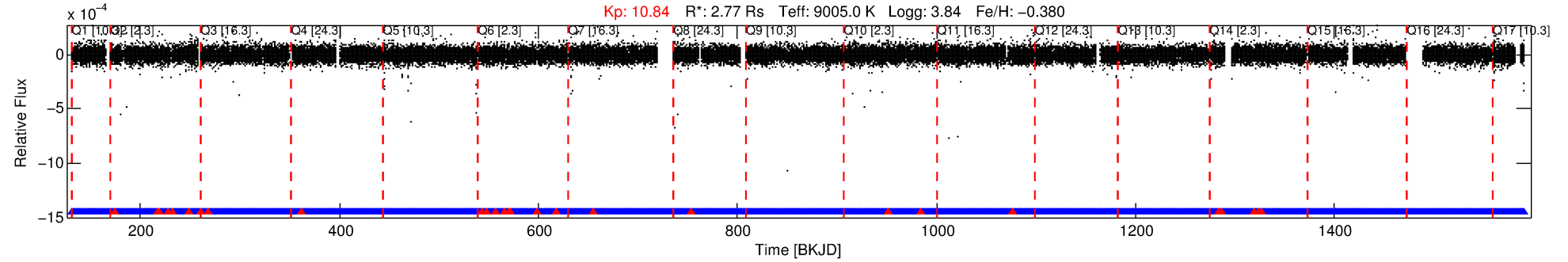
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003347395-01

No Significant Match Found

DV One-Page Summary

KIC: 3347395 Candidate: 1 of 1 Period: 0.664 d



DV Fit Results:

Period = 0.66363 [0.00001] d
Epoch = 131.5821 [0.0047] BKJD
Rp/R* = 0.0020 [0.0007]
a/R* = 1.04 [0.20]
b = 0.90 [0.53]
Seff = 131288.73 [95864.48]
Teq = 4854 [886] K
Rp = 0.61 [0.33] Re
a = 0.0186 [0.0074] AU
Ag = 1.73 [1.64] [0.44σ]
Teffp = 8602 [1689] K [1.97σ]

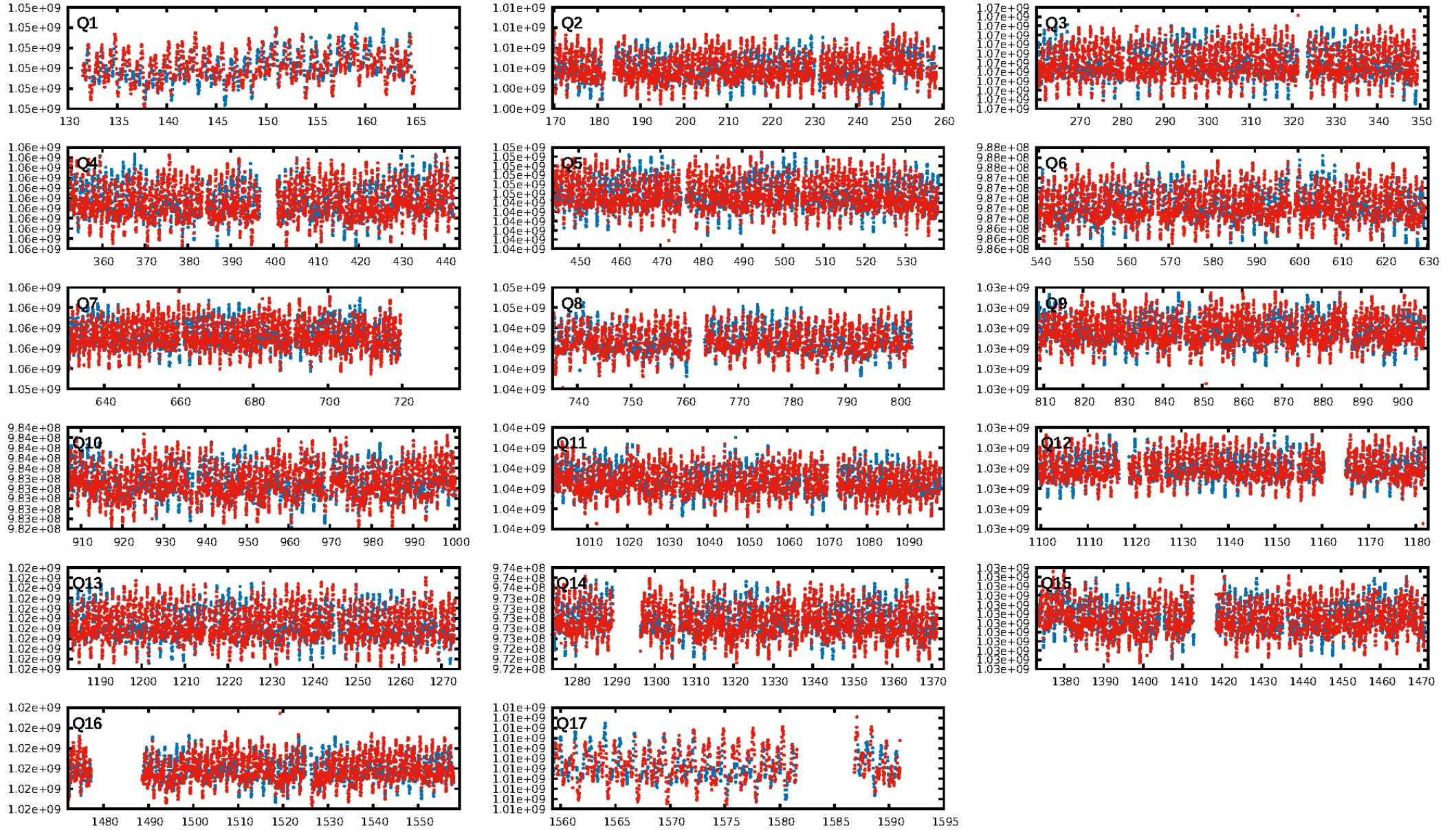
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.92e-13
RollingBand-fgt: 0.99 [1907/1935]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 4.009 arcsec [3.92σ]
KicOffset-rm: 4.003 arcsec [4.07σ]
OotOffset-st: 0/4/0/0 [4]
KicOffset-st: 0/4/0/0 [4]
DiffImageQuality-fgm: 0.00 [0/4]
DiffImageOverlap-fno: 1.00 [17/17]

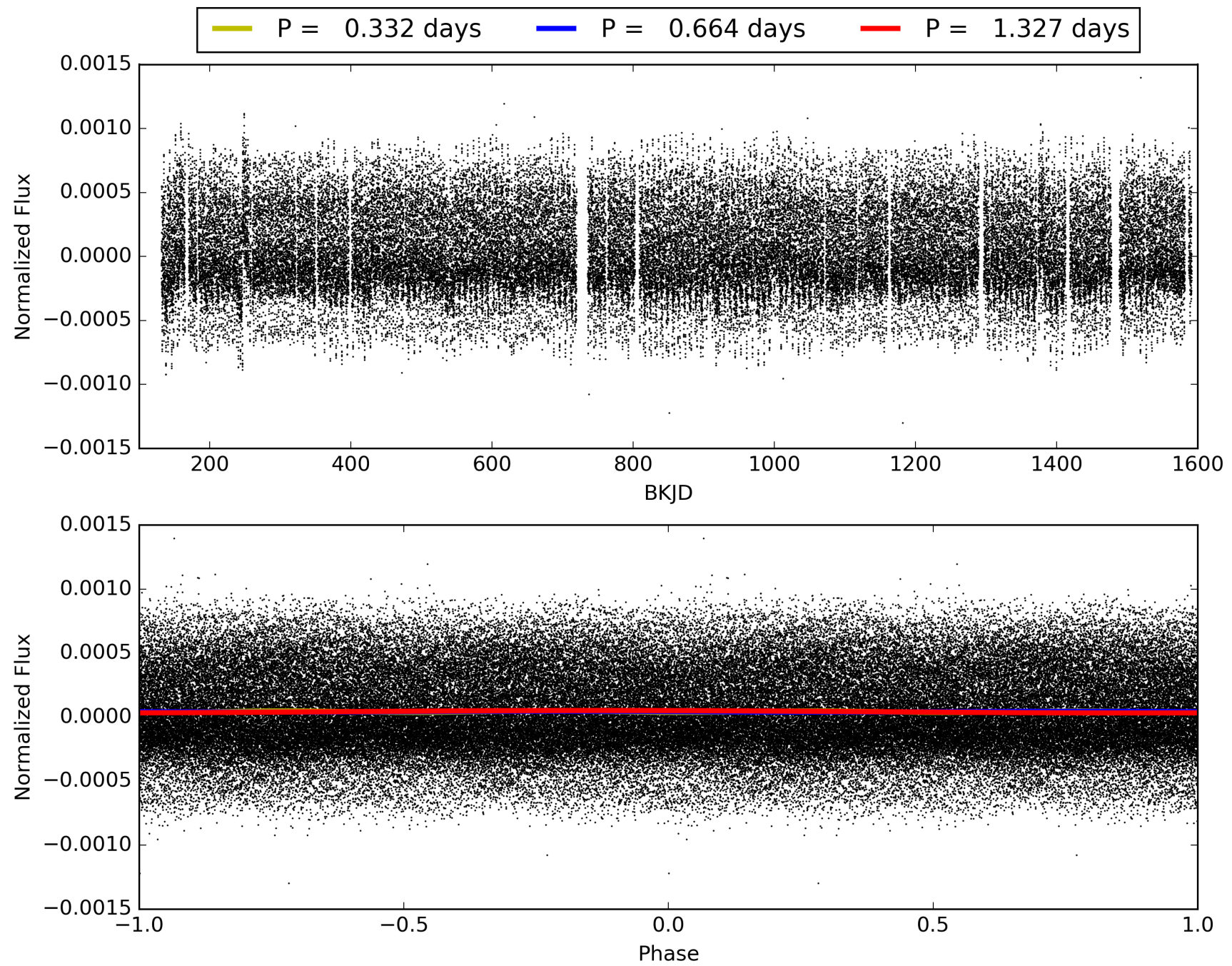
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:21:52 Z

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

TCE 003347395-01, PDC Light Curves

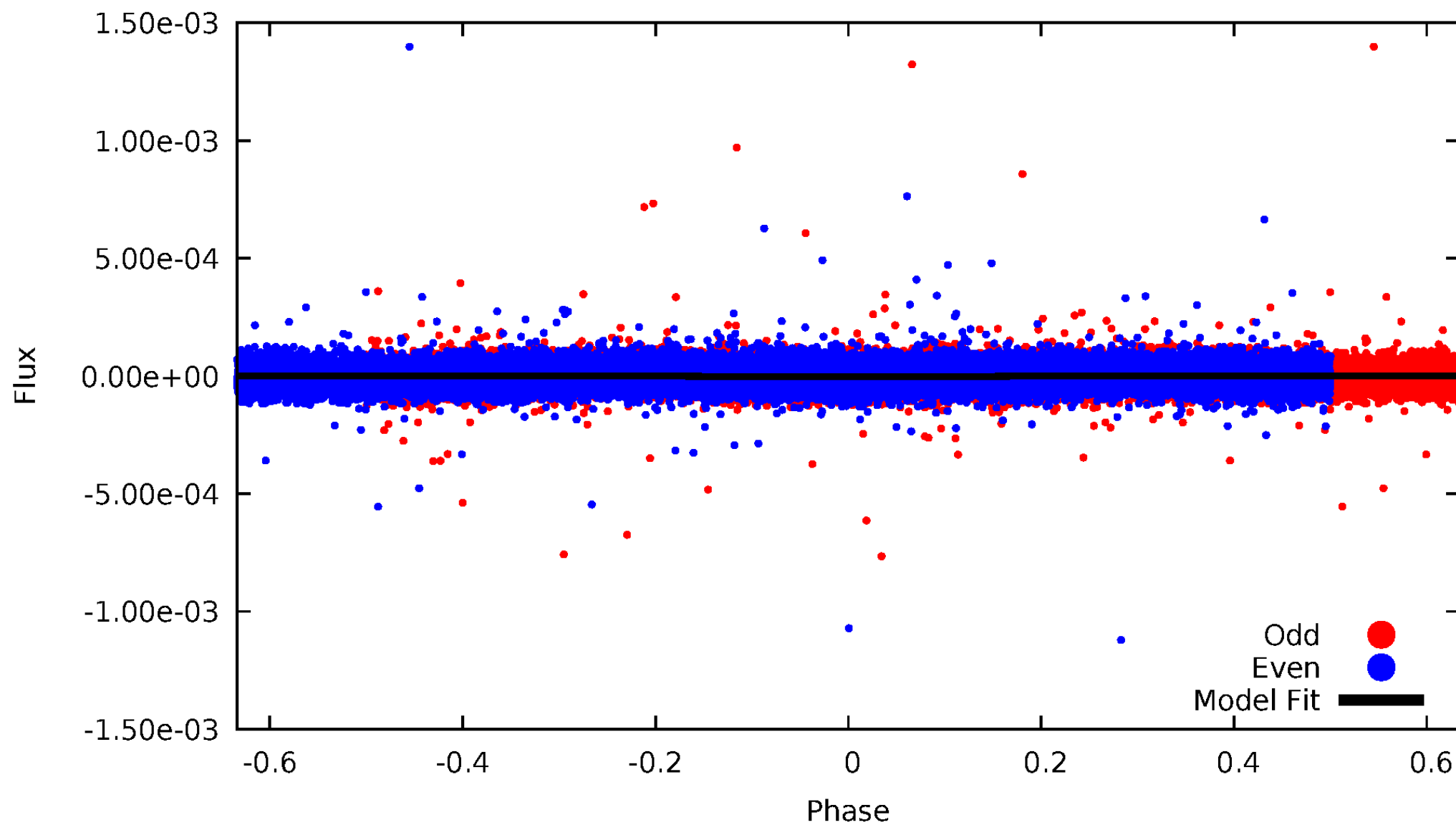


TCE 003347395-01



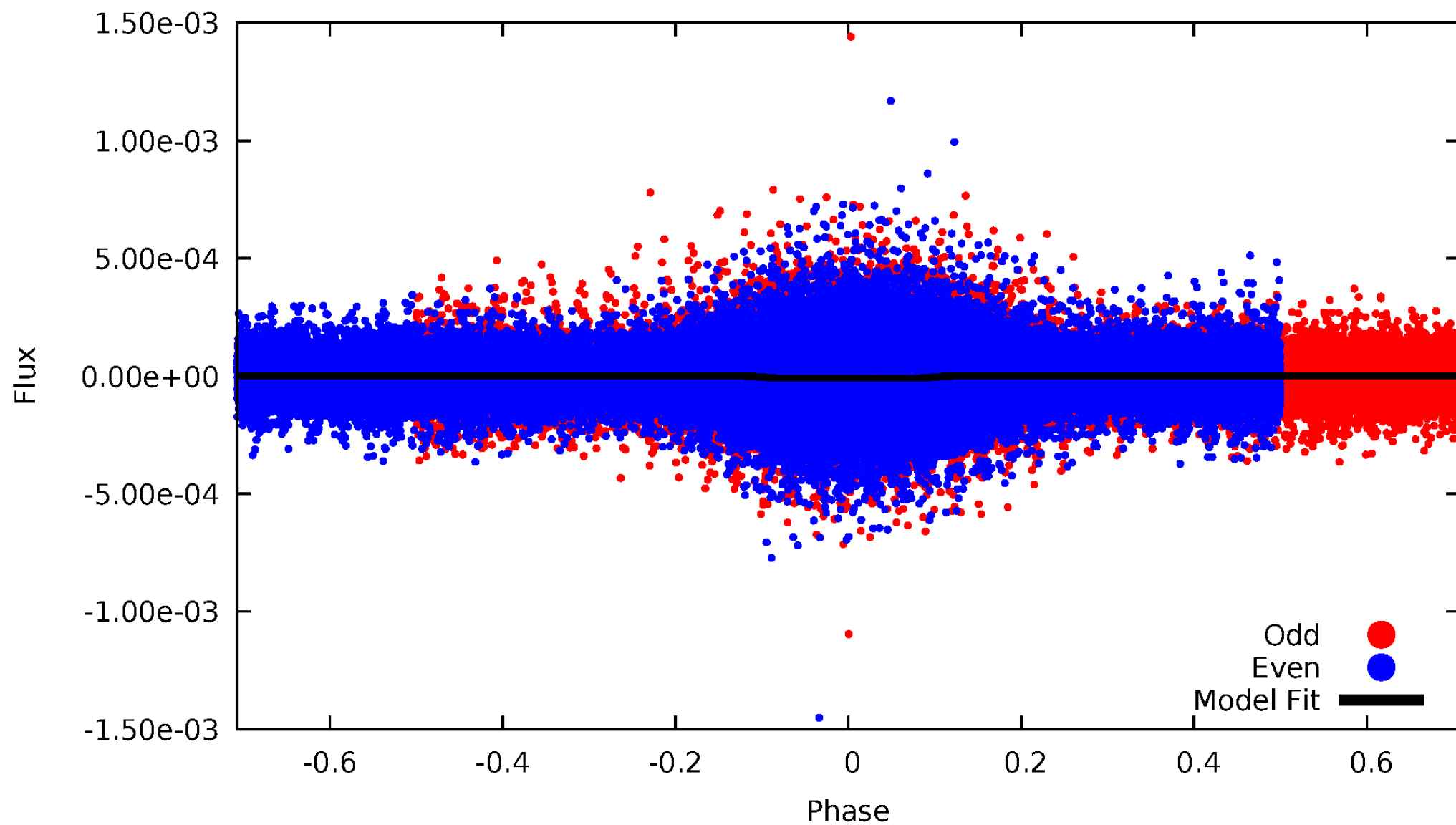
DV Odd/Even

TCE 003347395-01



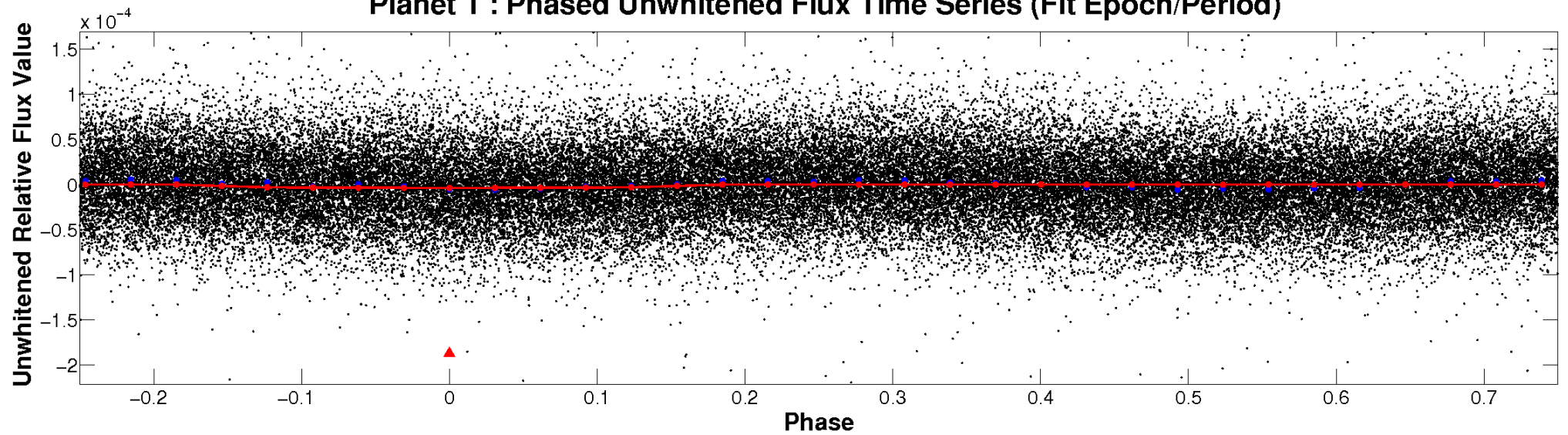
ALT Odd/Even

TCE 003347395-01

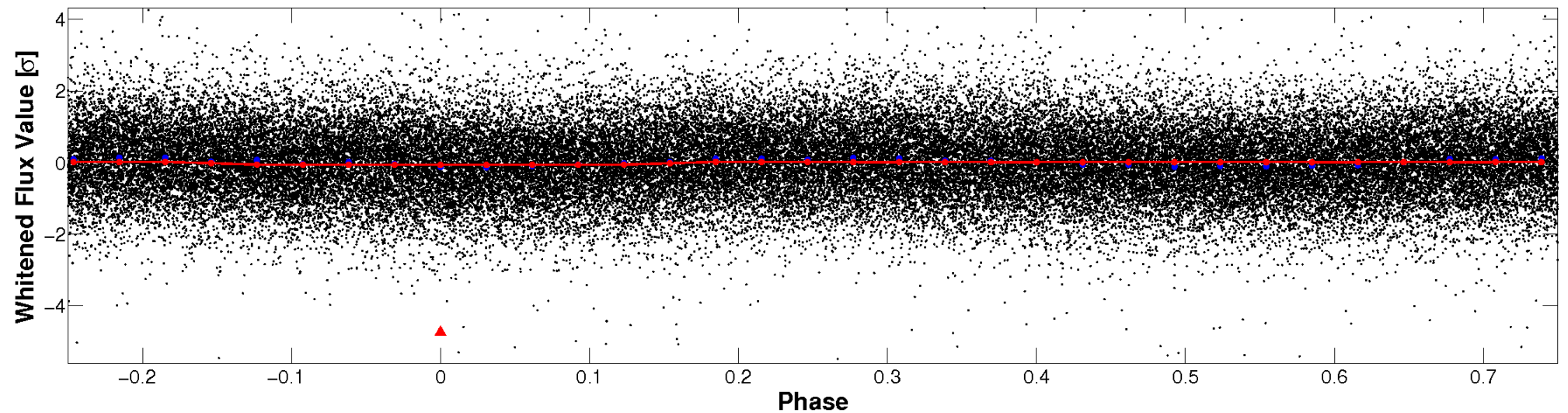


Non-Whitened Vs. Whitened Light Curve

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

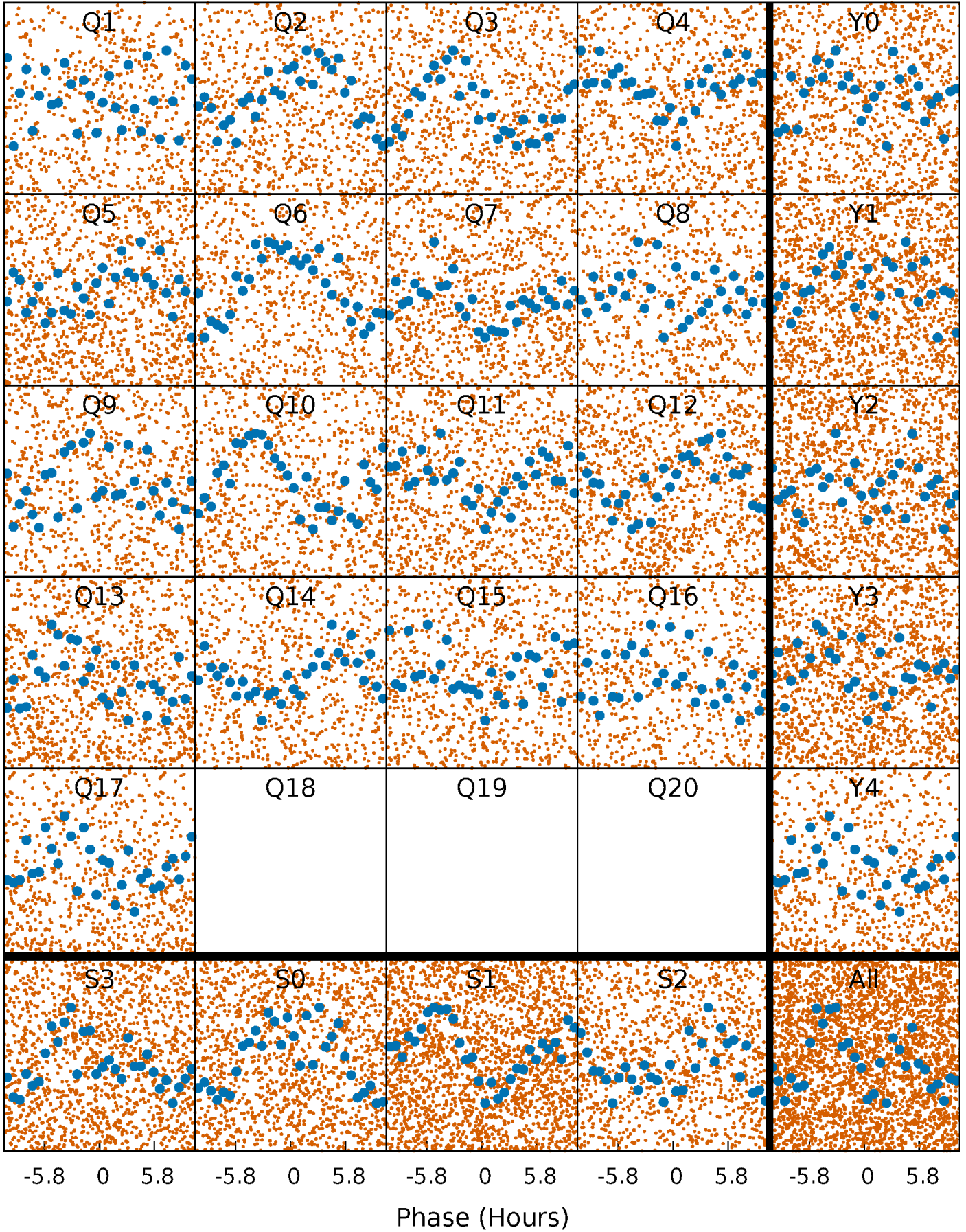


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



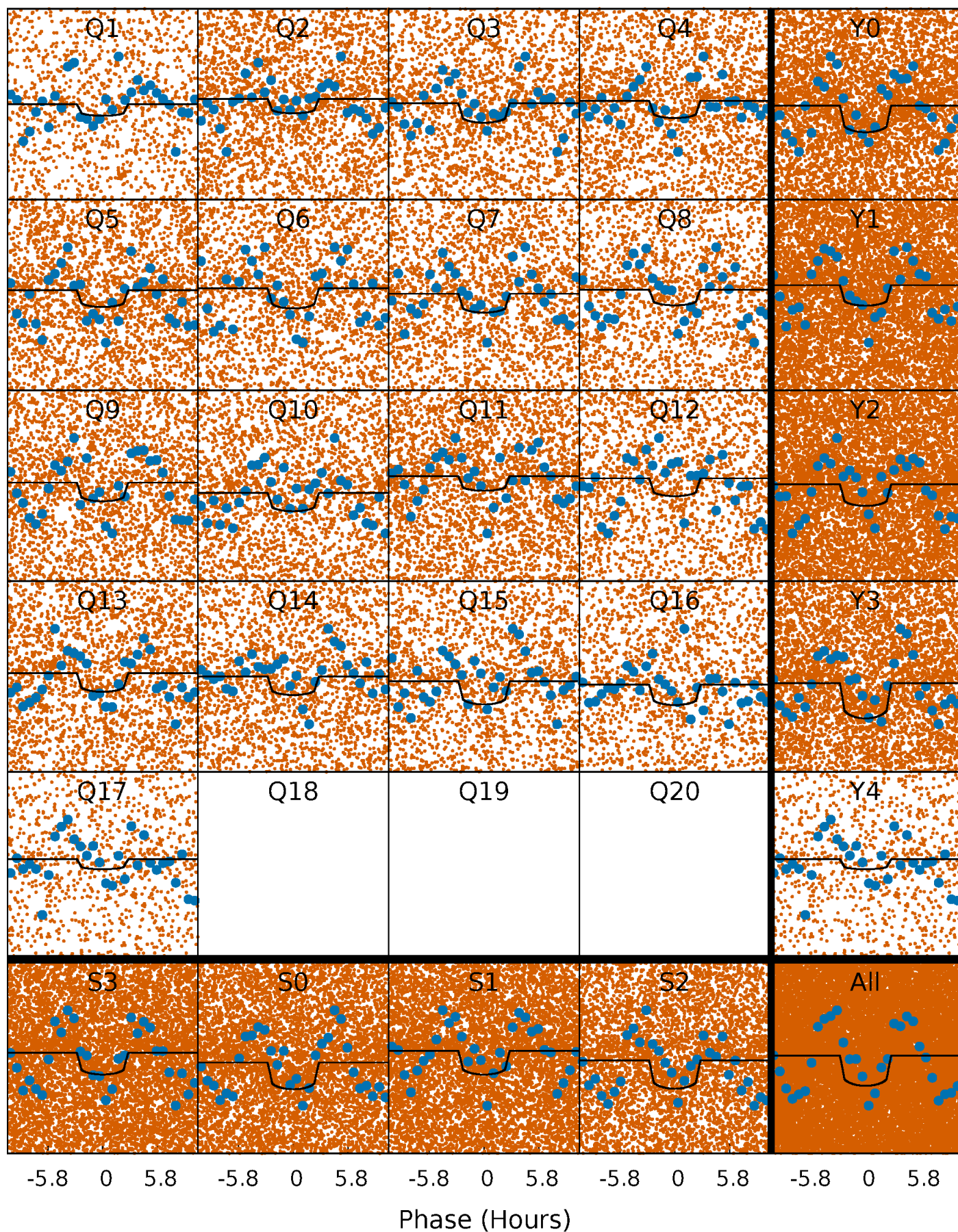
PDC Quarter-Phased Transit Curves

TCE 003347395-01 P= 0.663630 Days $T_0=131.582126$ (BKJD)



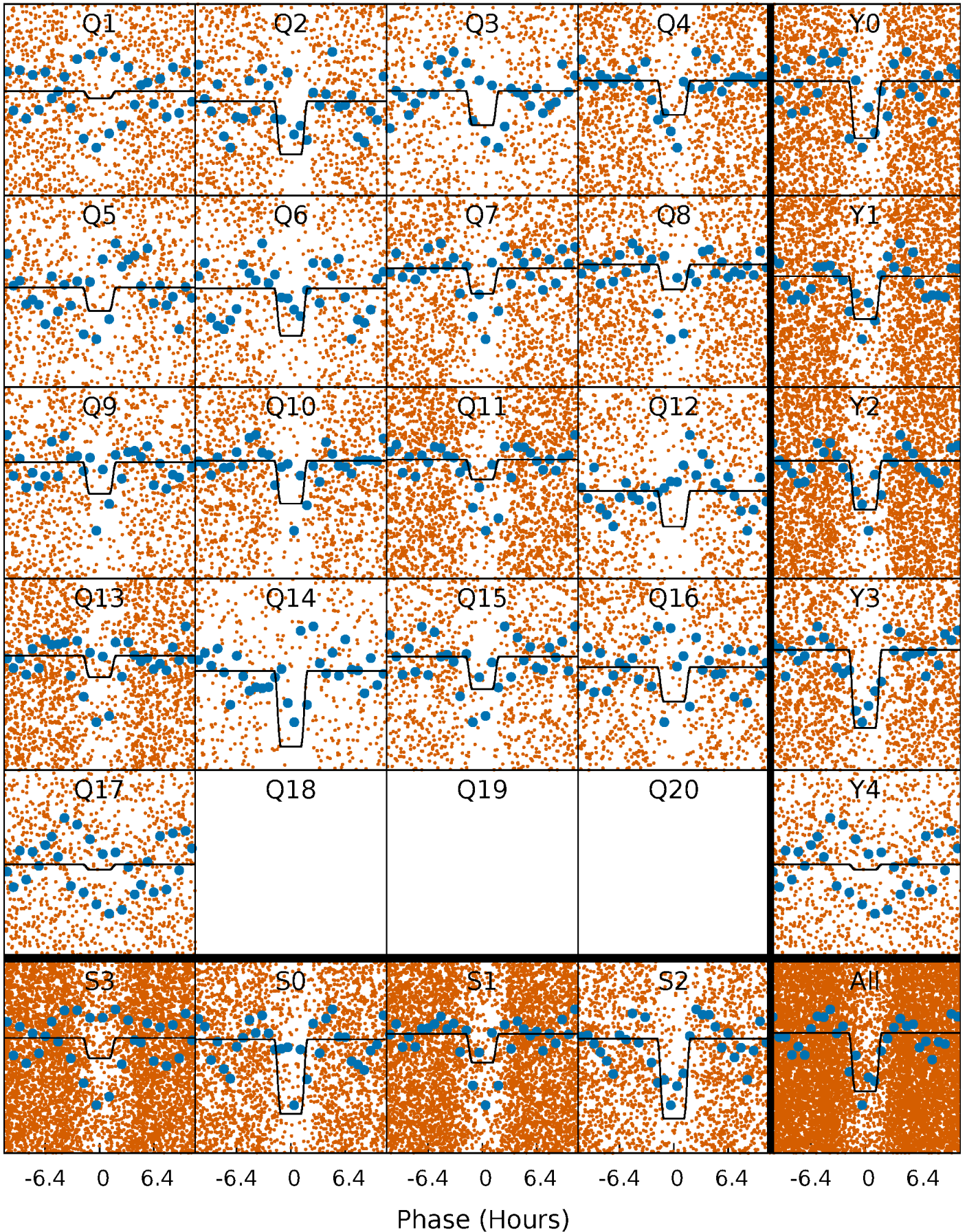
DV Quarter-Phased Transit Curves

TCE 003347395-01 P= 0.663630 Days $T_0=131.582126$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

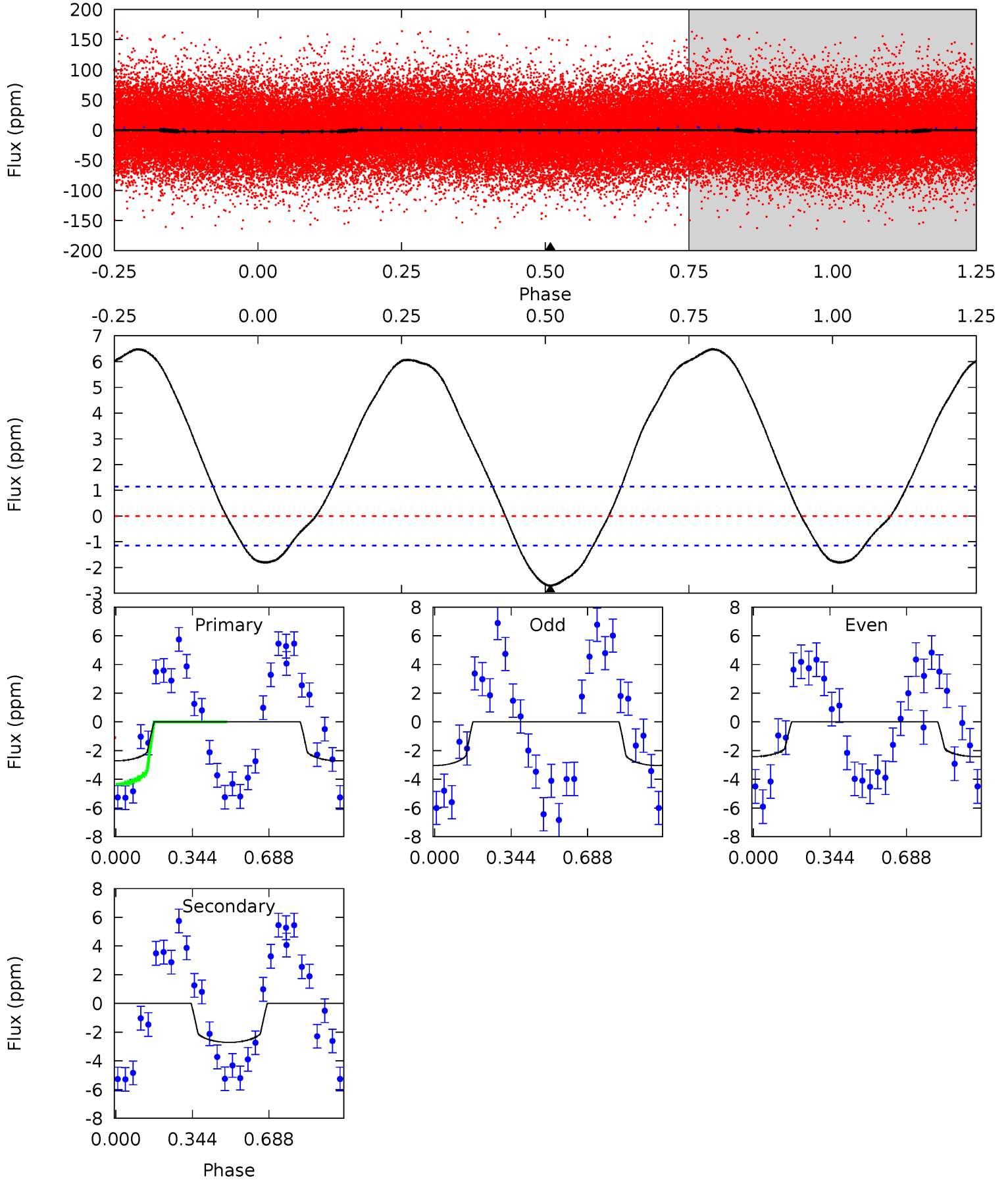
TCE 003347395-01 P= 0.663649 Days $T_0=131.584522$ (BKJD)



DV Model-Shift Uniqueness Test

003347395-01, P = 0.663630 Days, E = 130.918496 Days

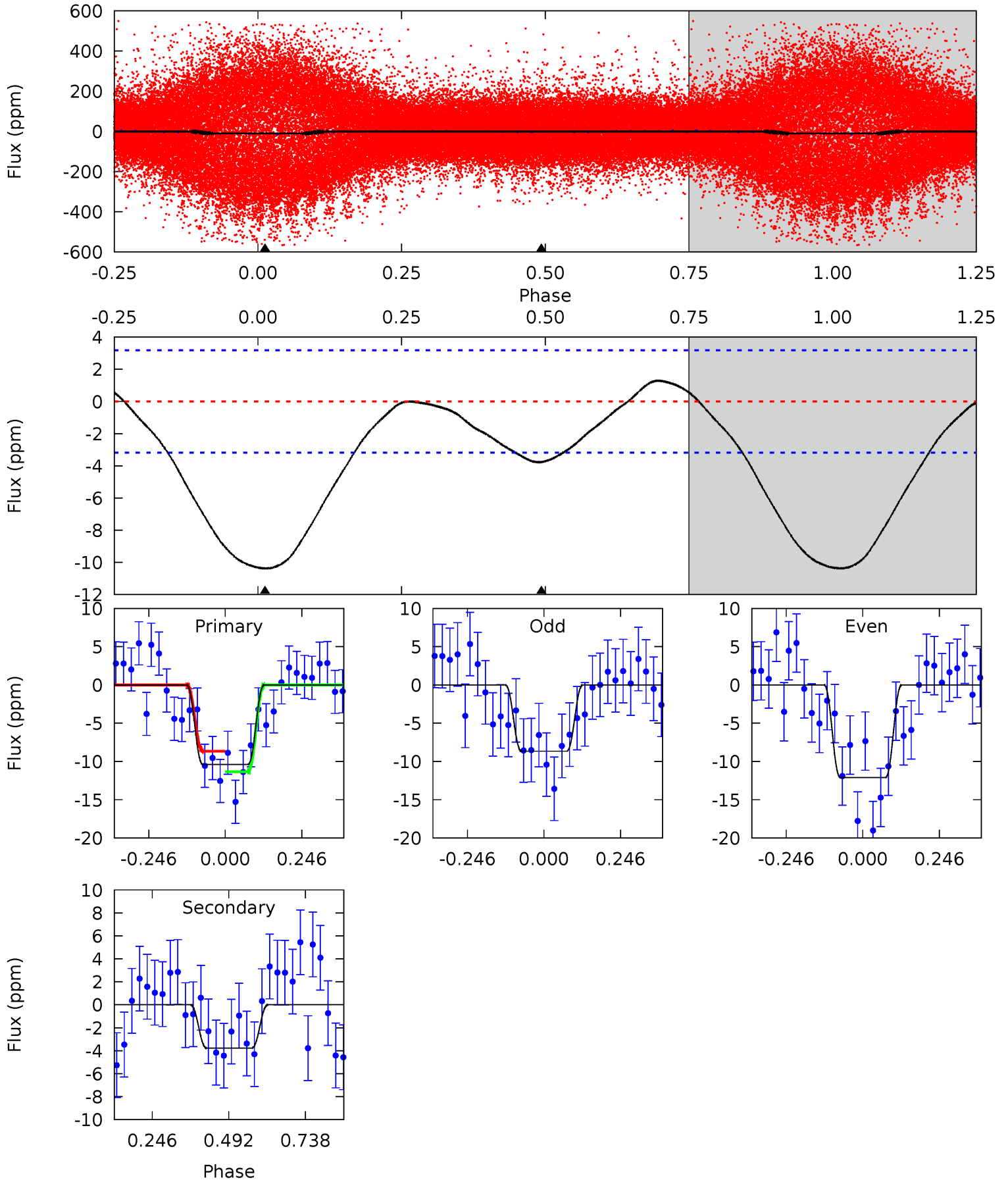
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.2	10.2	0	0	4.30	0.95	6.95	10.2	10.2	10.2	10.2	1.17	0.85	0.70	6.06



Alt Model-Shift Uniqueness Test

003347395-01, P = 0.663649 Days, E = 130.920873 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.2	5.18	0	0	4.37	1.16	0.74	14.2	14.2	5.18	5.18	2.35	1.33	0.11	1.20



Stellar Parameters For KIC 003347395

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9005^{+424}_{-788}	$3.840^{+0.376}_{-0.070}$	$-0.380^{+0.100}_{-0.150}$	$2.773^{+0.309}_{-1.158}$	$1.941^{+0.224}_{-0.385}$	$0.128^{+0.430}_{-0.029}$
	+5%/-9%	+10%/-2%	+26%/-39%	+11%/-42%	+12%/-20%	+336%/-23%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 003347395-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-3 ± 0	$0.56^{+0.24}_{-0.22}$	6485^{+540}_{-747}	7378^{+2838}_{-1490}	$1.694^{+2.927}_{-0.854}$
Alt.	-4 ± 1	$0.89^{+0.26}_{-0.24}$	6473^{+572}_{-778}	5872^{+1364}_{-1040}	$0.893^{+0.814}_{-0.360}$

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

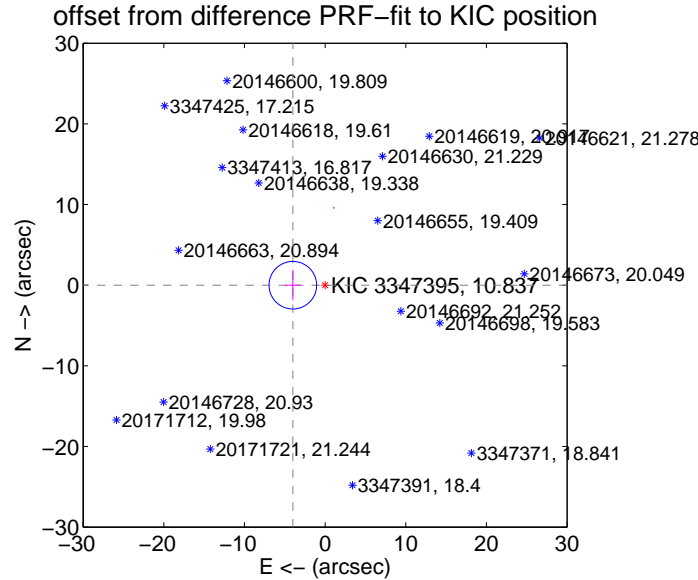
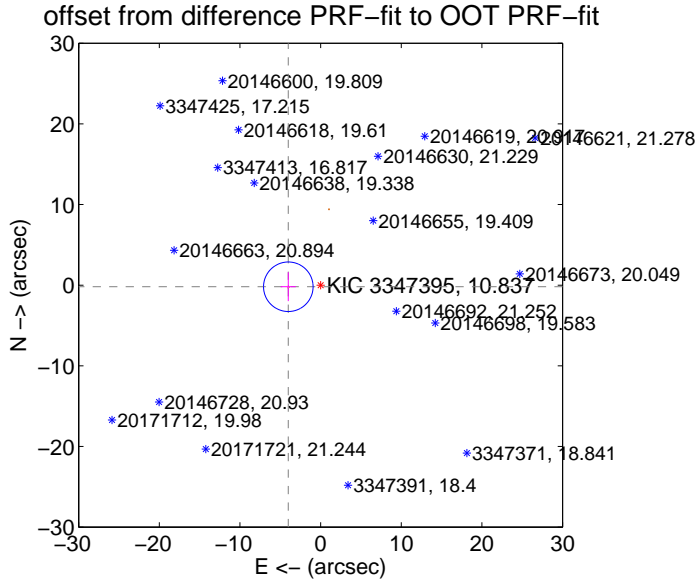
DV Centroid Data

Supplemental centroid analysis for 003347395-01. **Kepler magnitude: 10.84.** Transit SNR 8.83

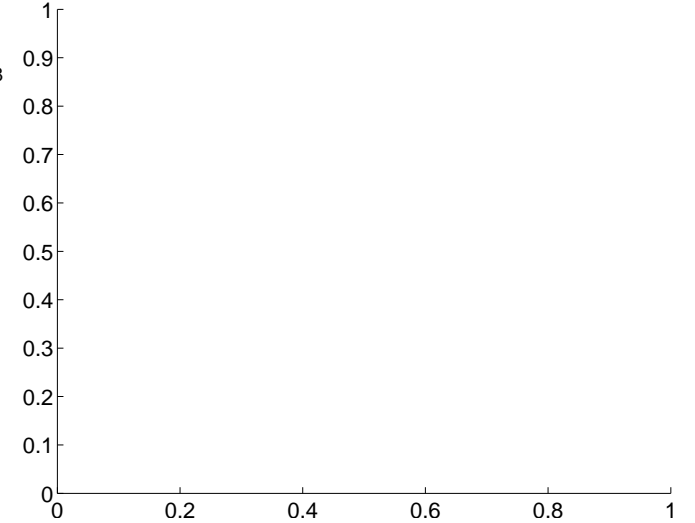
There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.009 \pm 1.024	3.92	4.004 \pm 0.937	-0.197 \pm 1.787
PRF-fit source offset from KIC position	4.003 \pm 0.983	4.07	4.003 \pm 0.980	-0.007 \pm 1.892
photometric centroid source offset	—	—	—	—

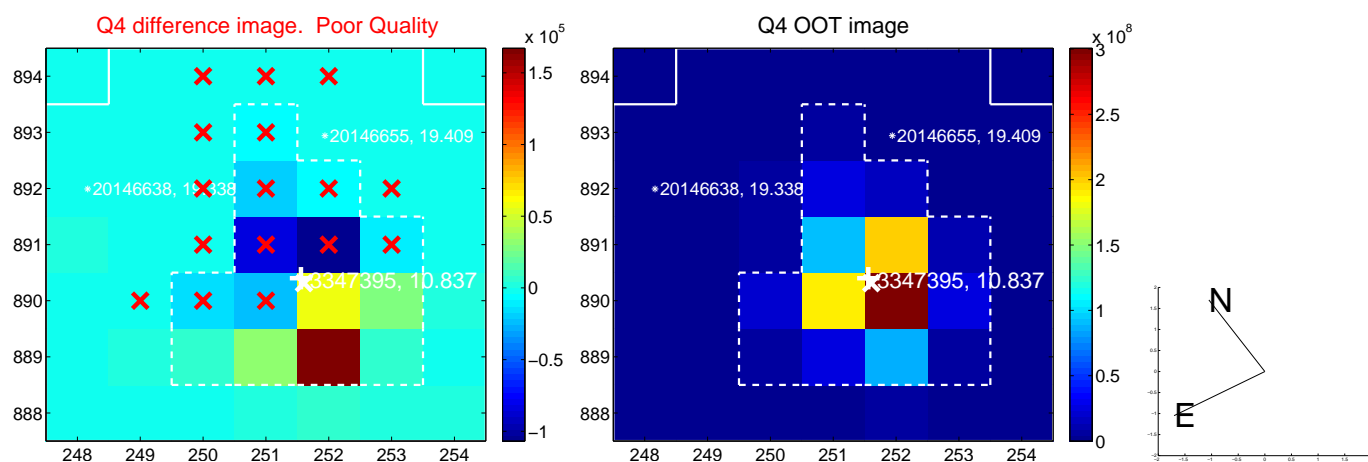
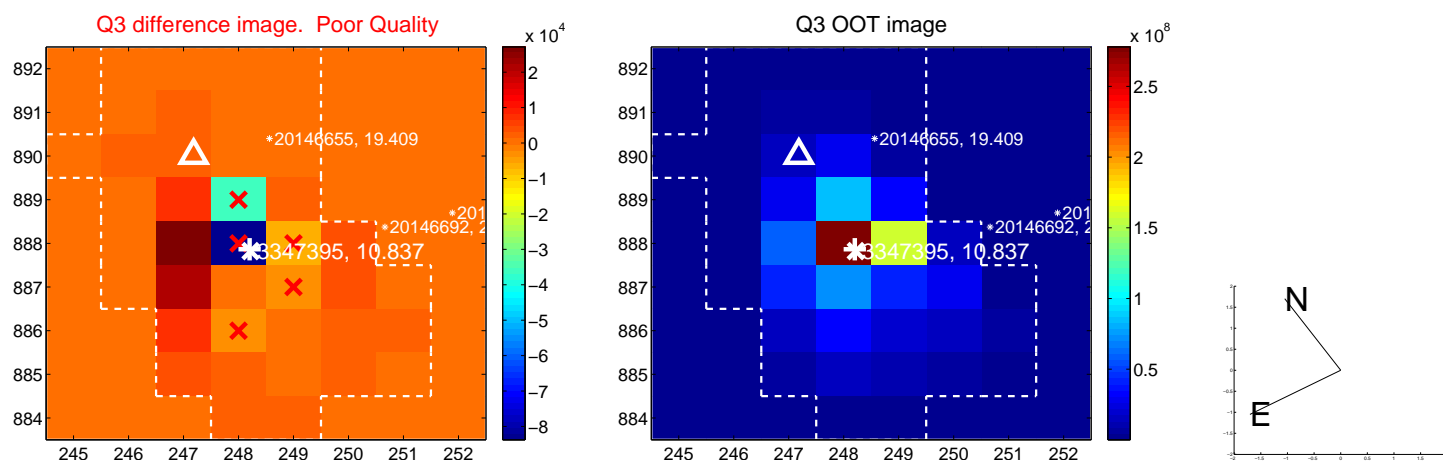
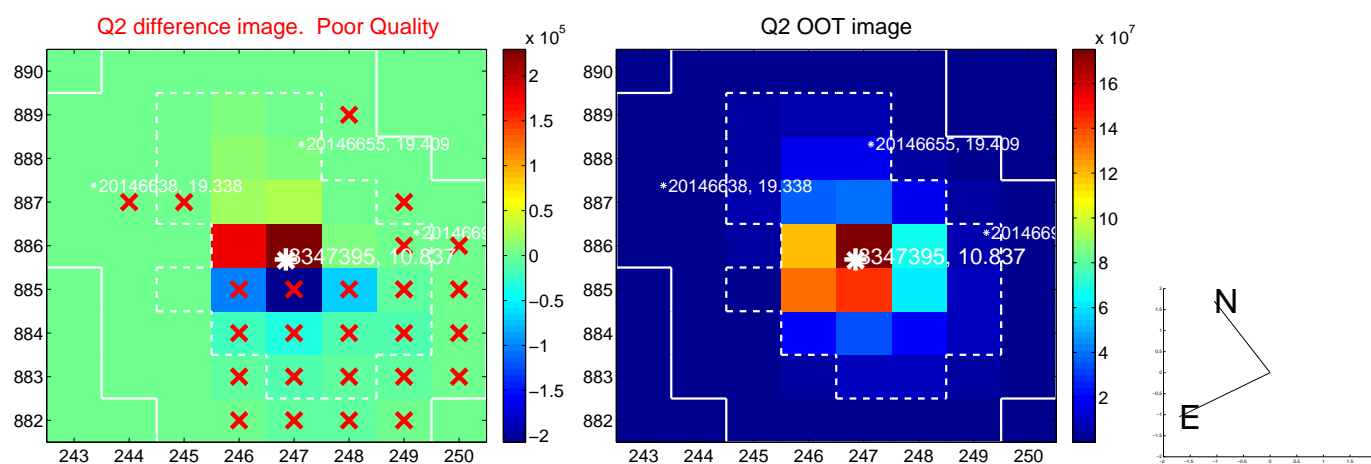
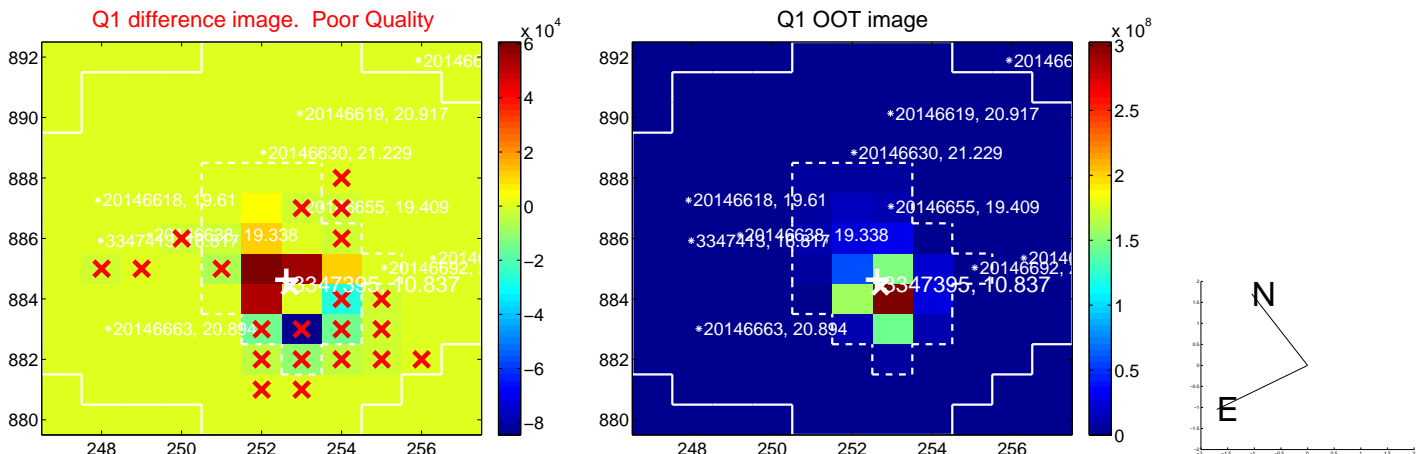


There are no photometric centroids

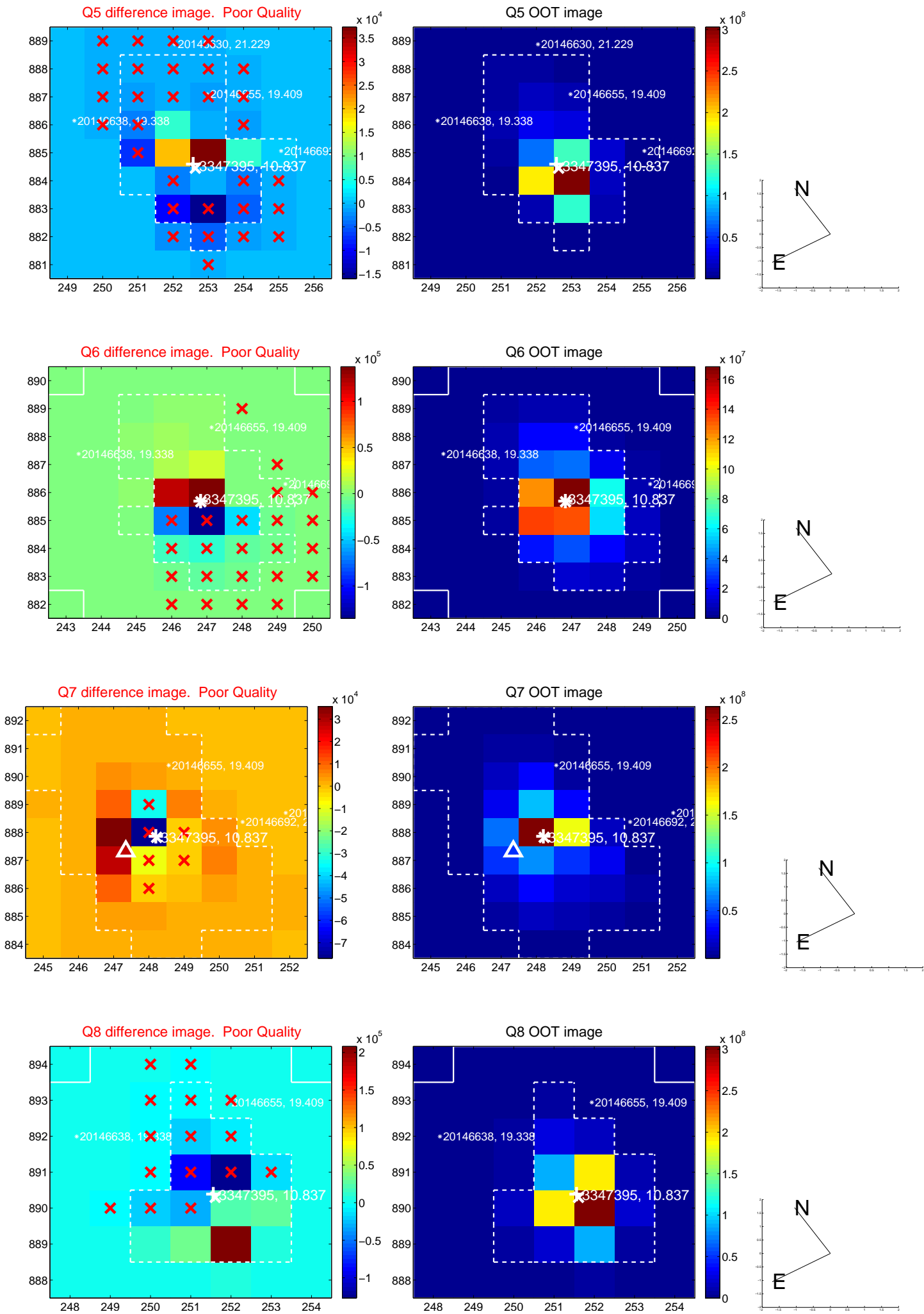


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

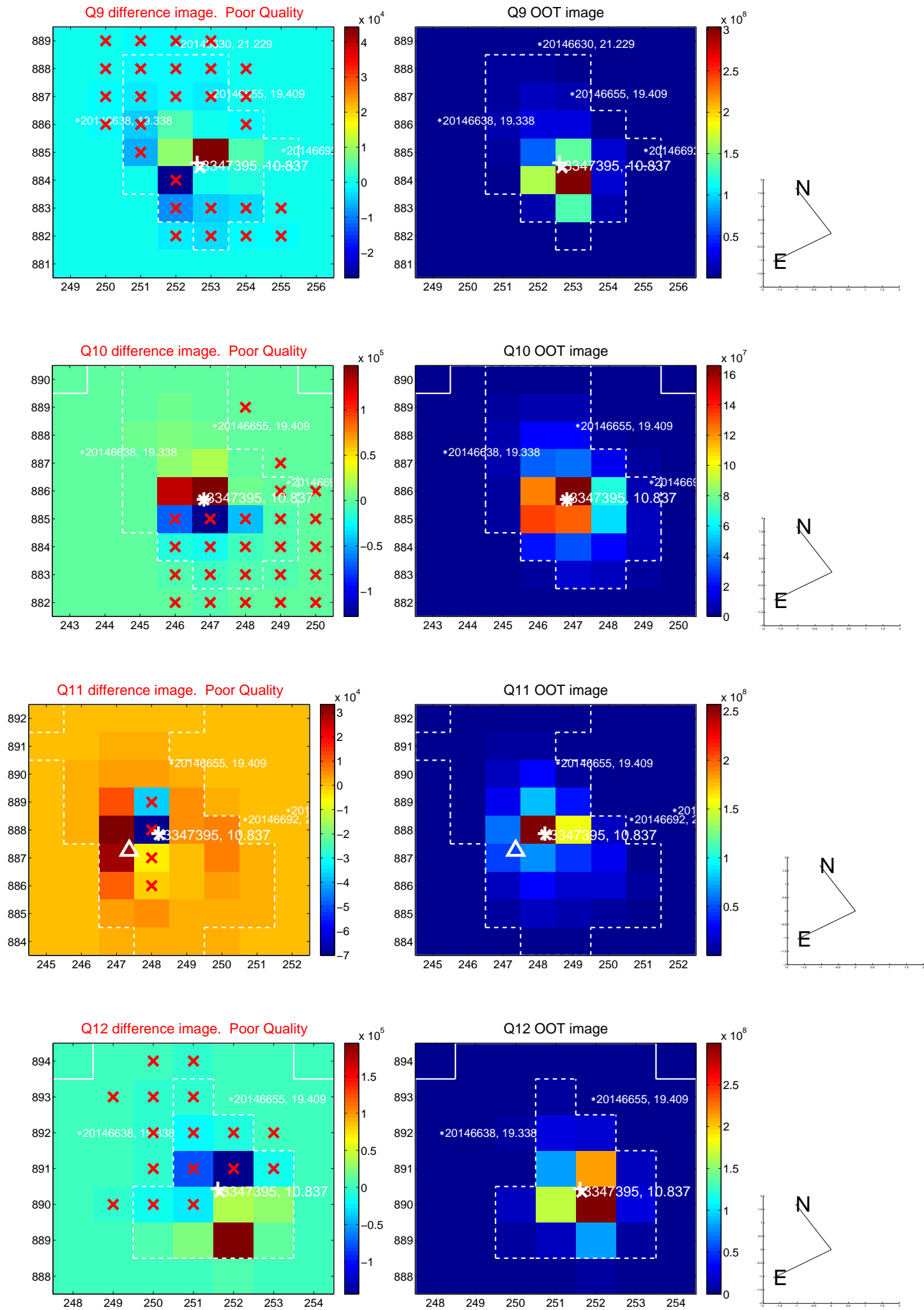
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



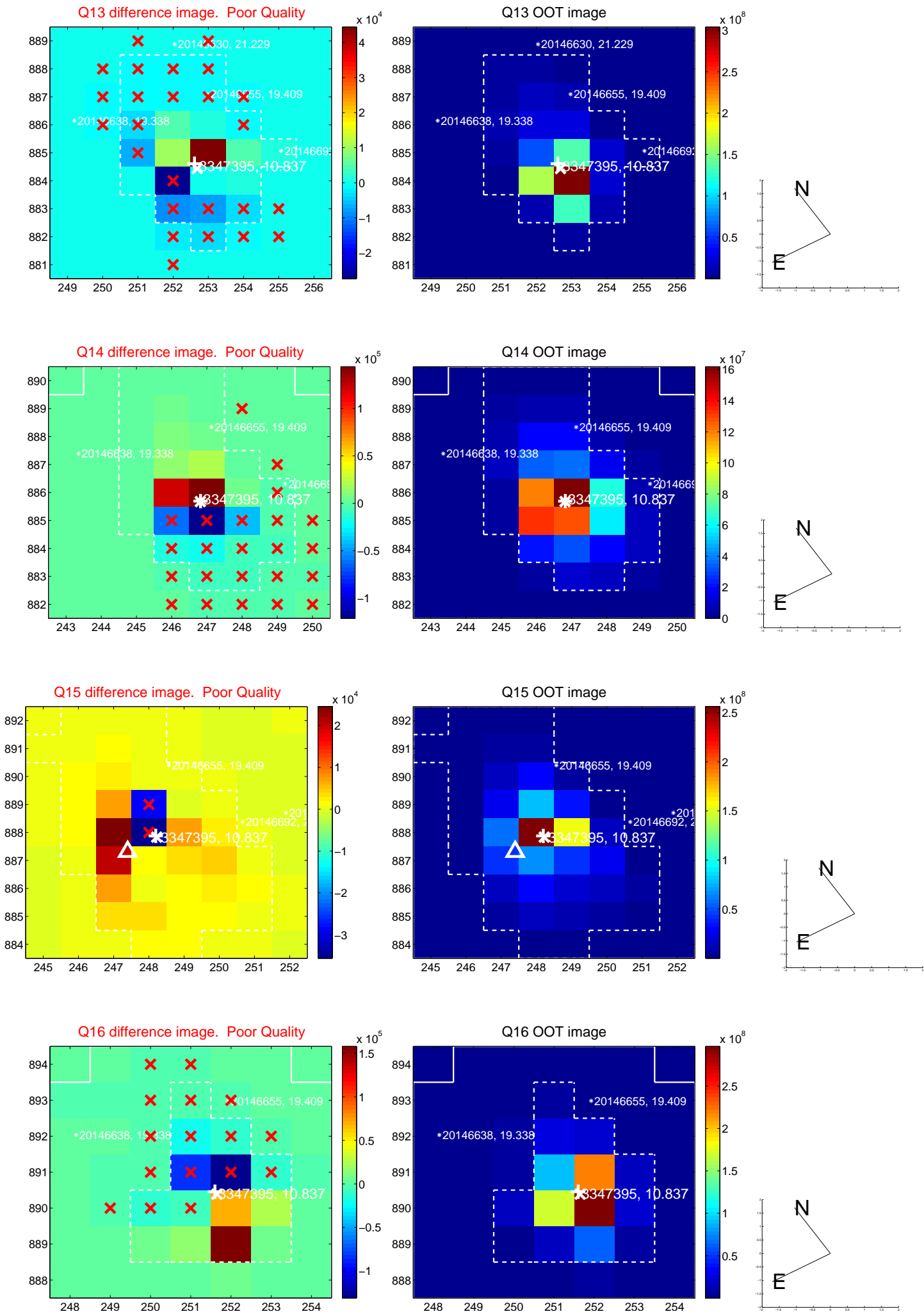
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



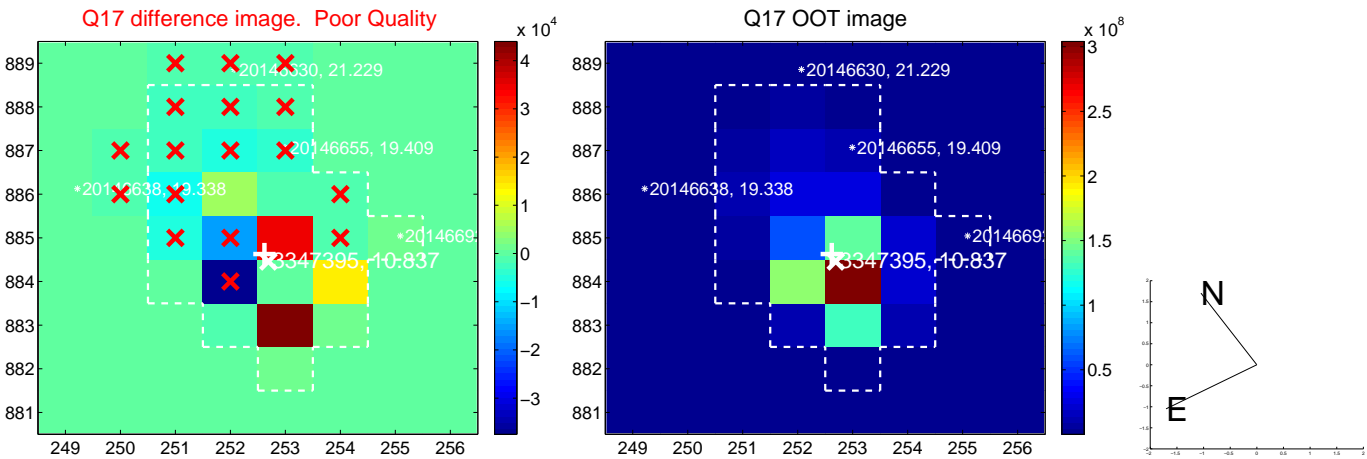
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

