

KIC 011086712

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})
011086712-01	OBS	No	0.652439	131.689574	0.4	5.904	14.9	0.3	2.08	6828	0.13	28932.81

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011086712-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_MEAS

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

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

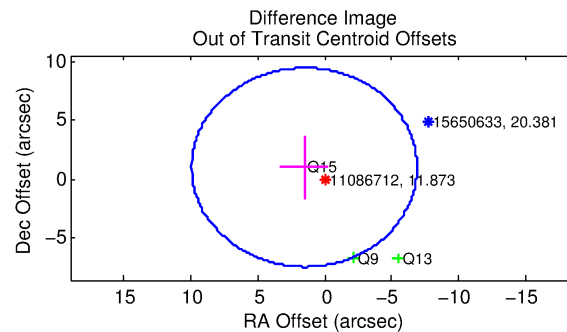
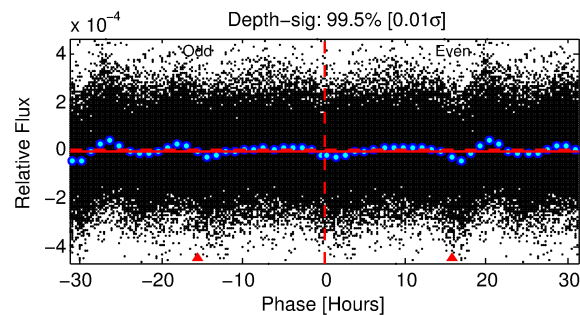
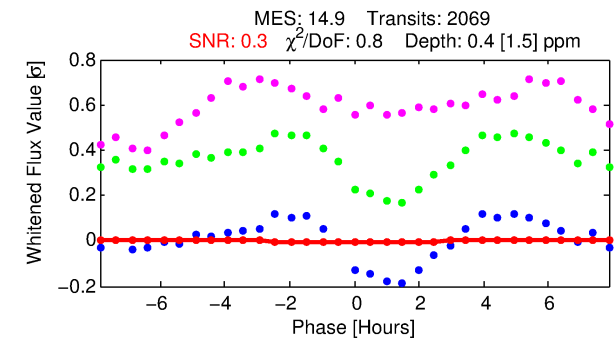
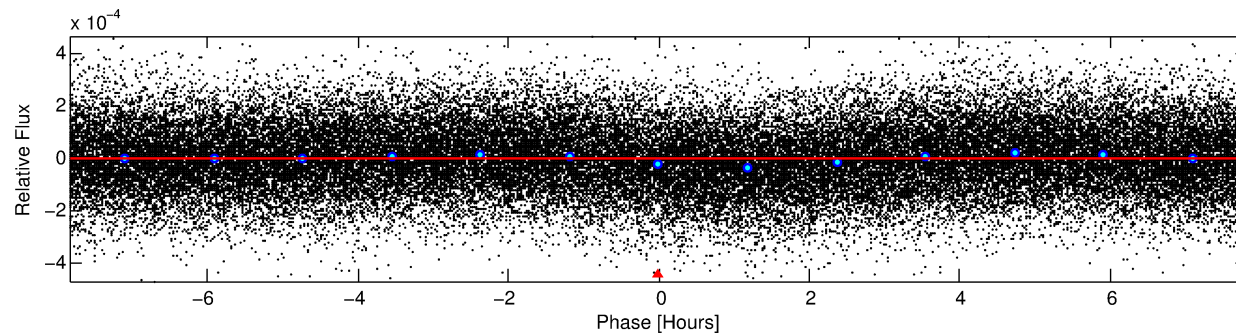
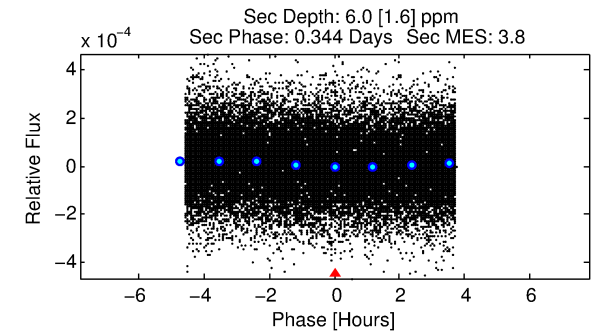
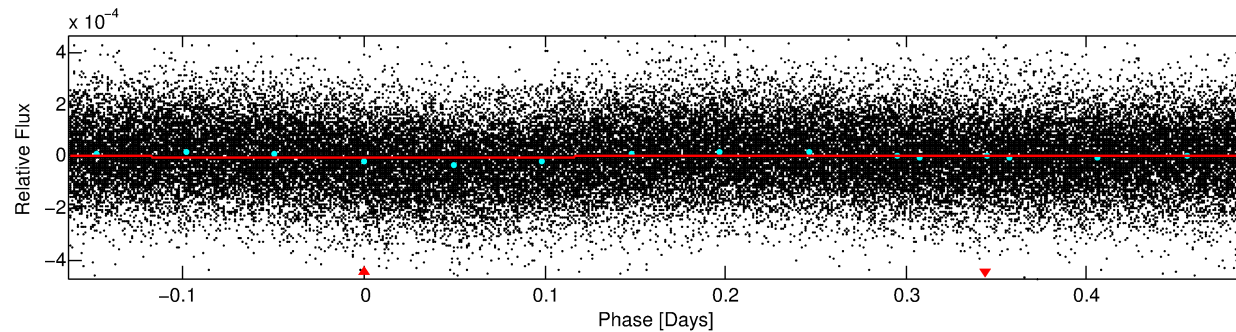
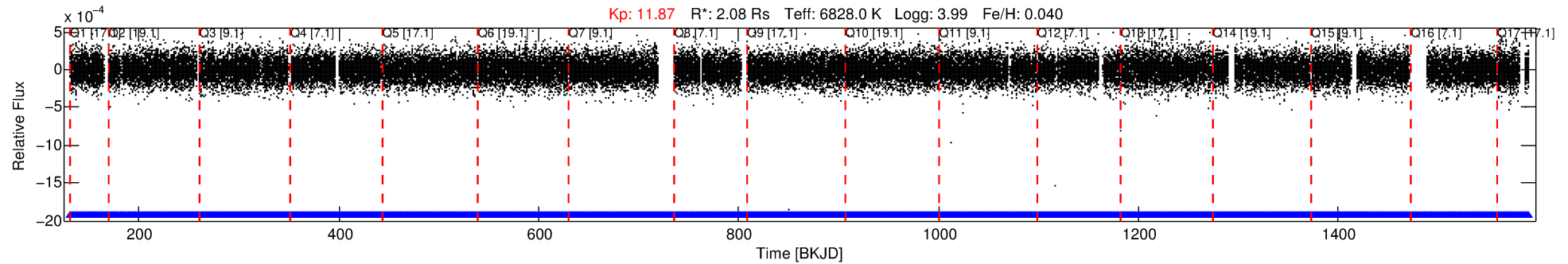
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011086712-01

No Significant Match Found

DV One-Page Summary

KIC: 11086712 Candidate: 1 of 1 Period: 0.652 d



DV Fit Results:

Period = 0.65244 [0.00041] d
Epoch = 131.6896 [0.1406] BKJD
Rp/R* = 0.0006 [0.0132]
a/R* = 1.07 [18.24]
b = 0.30 [393.11]
Seff = 28932.81 [8490.31]
Teff = 3326 [244] K
Rp = 0.13 [2.99] Re
a = 0.0171 [0.0031] AU
Ag = 54.64 [2476.77] [0.02σ]
Teffp = 13980 [158408] K [0.07σ]

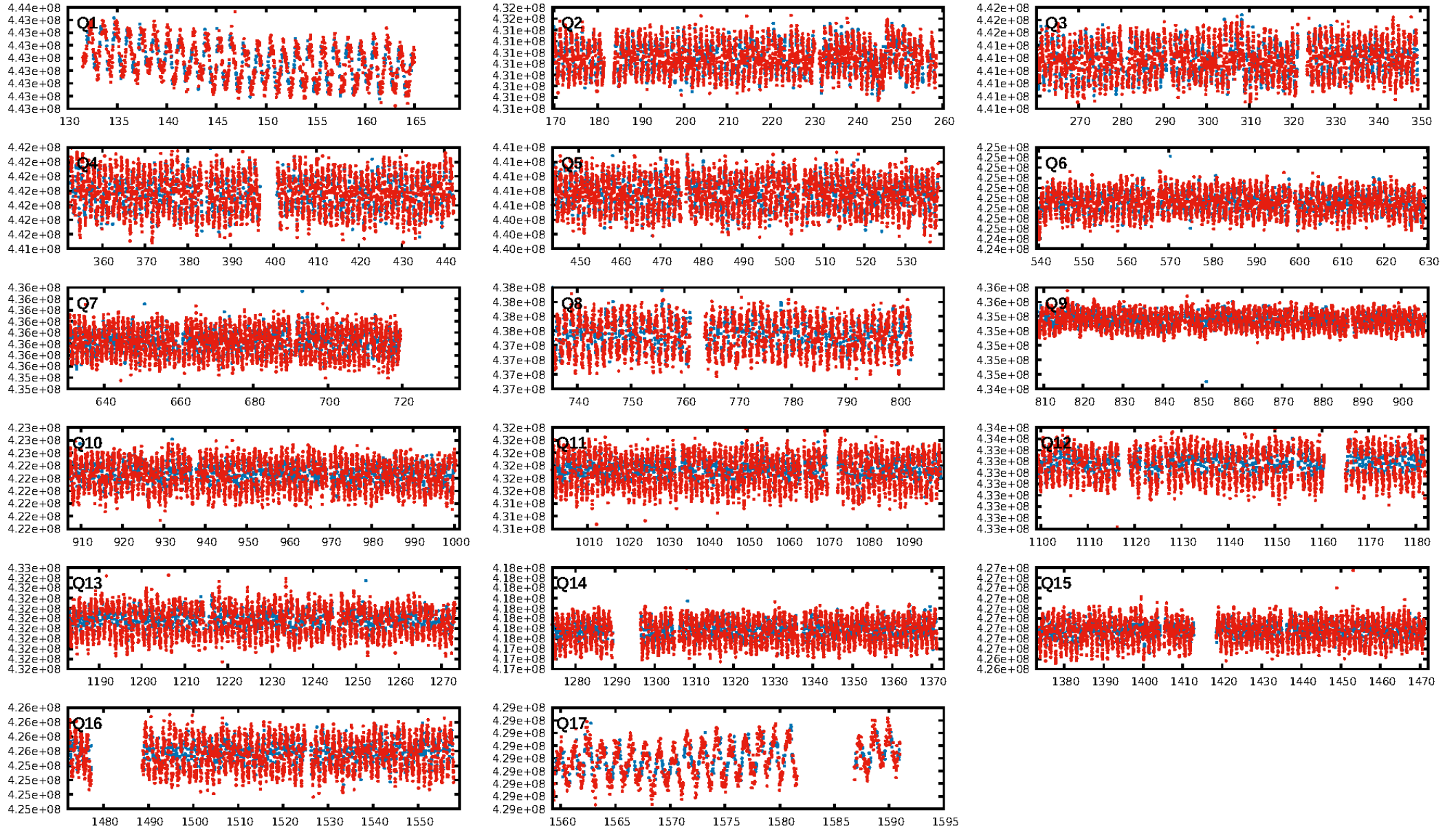
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1976/1976]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.821 arcsec [0.65σ]
KicOffset-rm: 1.691 arcsec [0.52σ]
OotOffset-st: 0/1/0/2 [3]
KicOffset-st: 0/1/0/2 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [17/17]

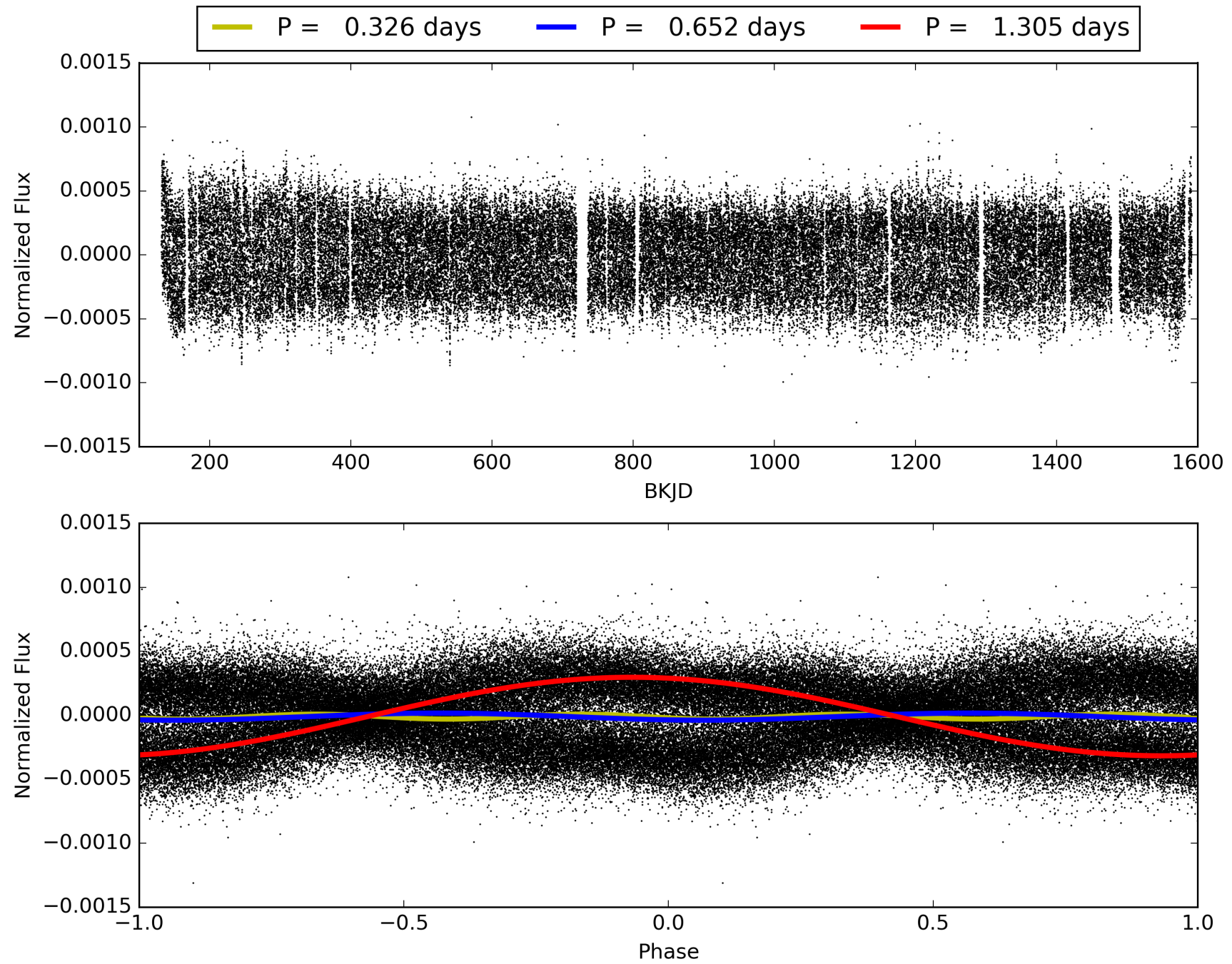
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:53:45 Z

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

TCE 011086712-01, PDC Light Curves

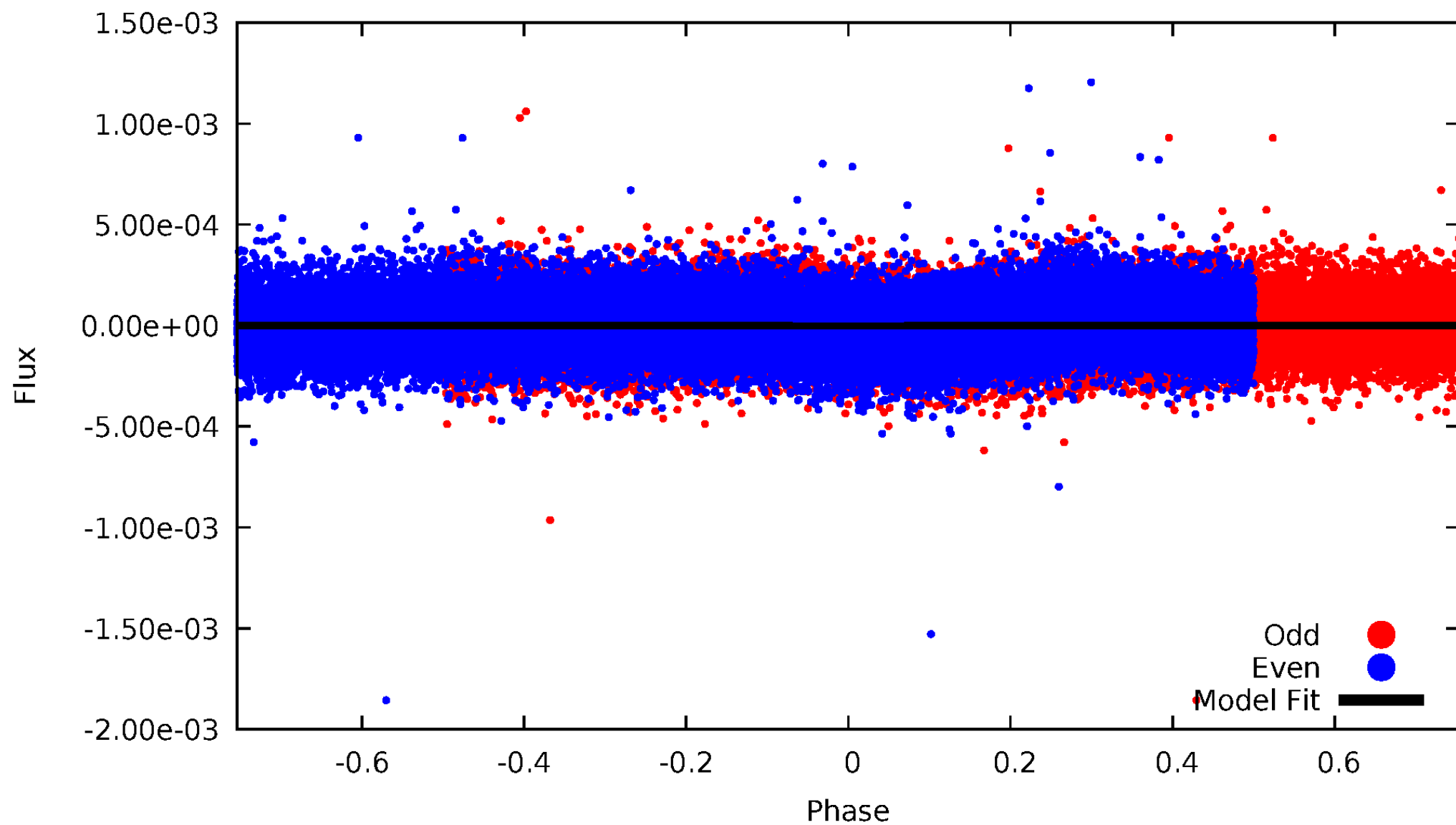


TCE 011086712-01



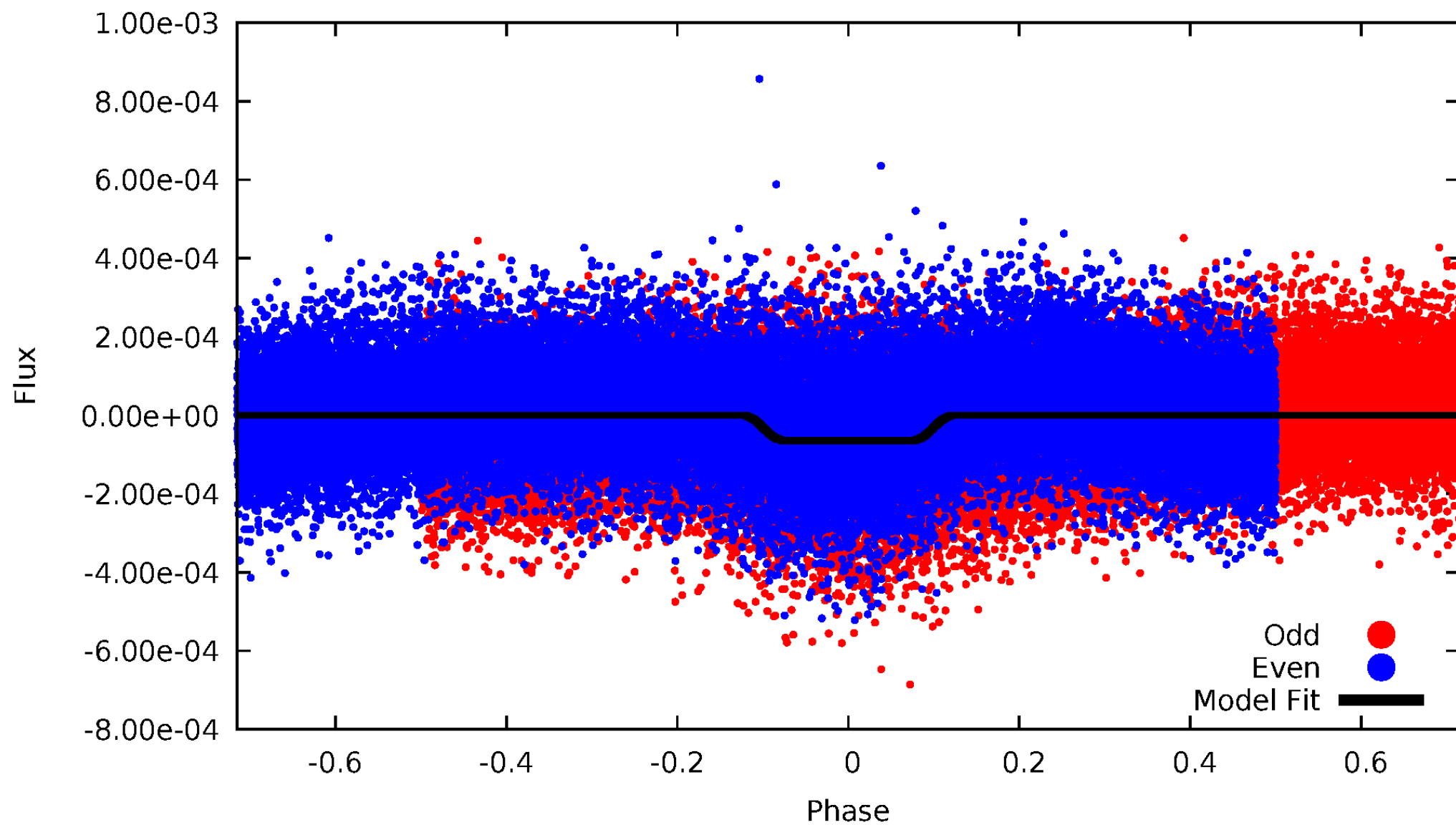
DV Odd/Even

TCE 011086712-01



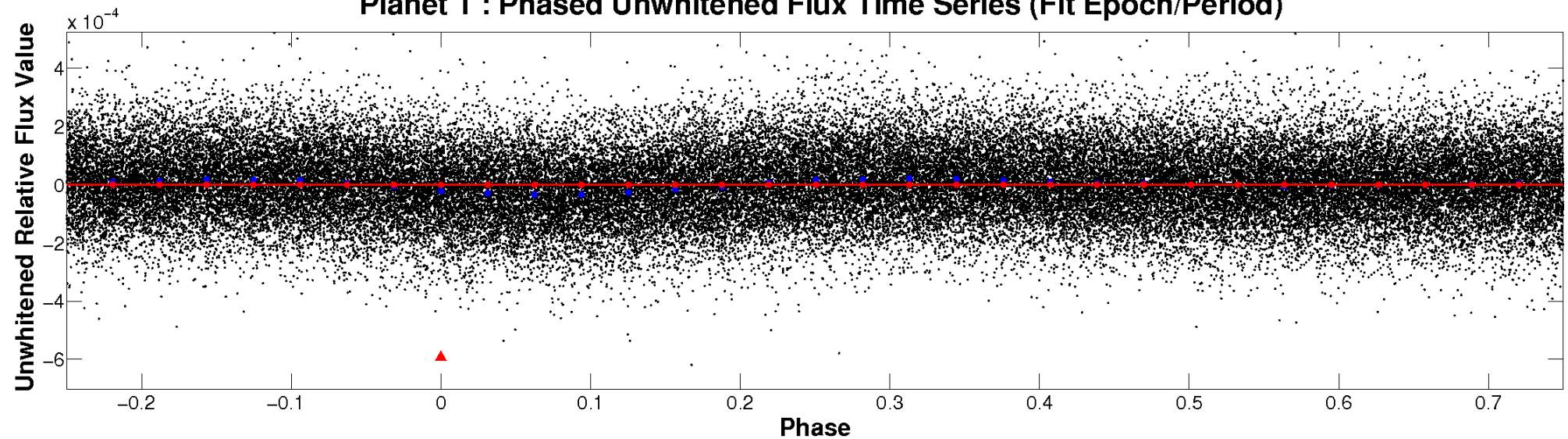
ALT Odd/Even

TCE 011086712-01

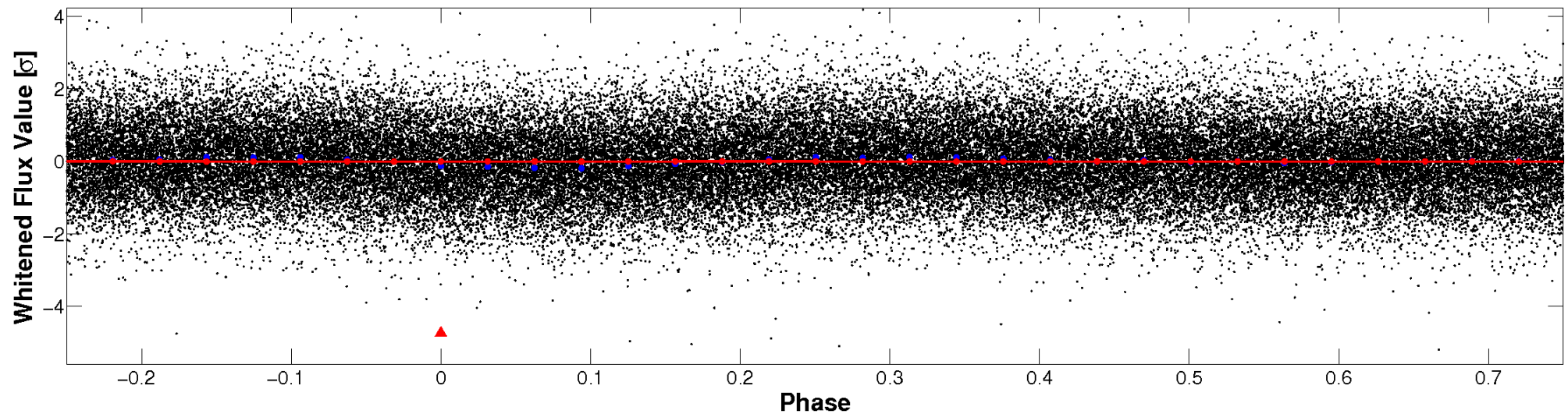


Non-Whitened Vs. Whitened Light Curve

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

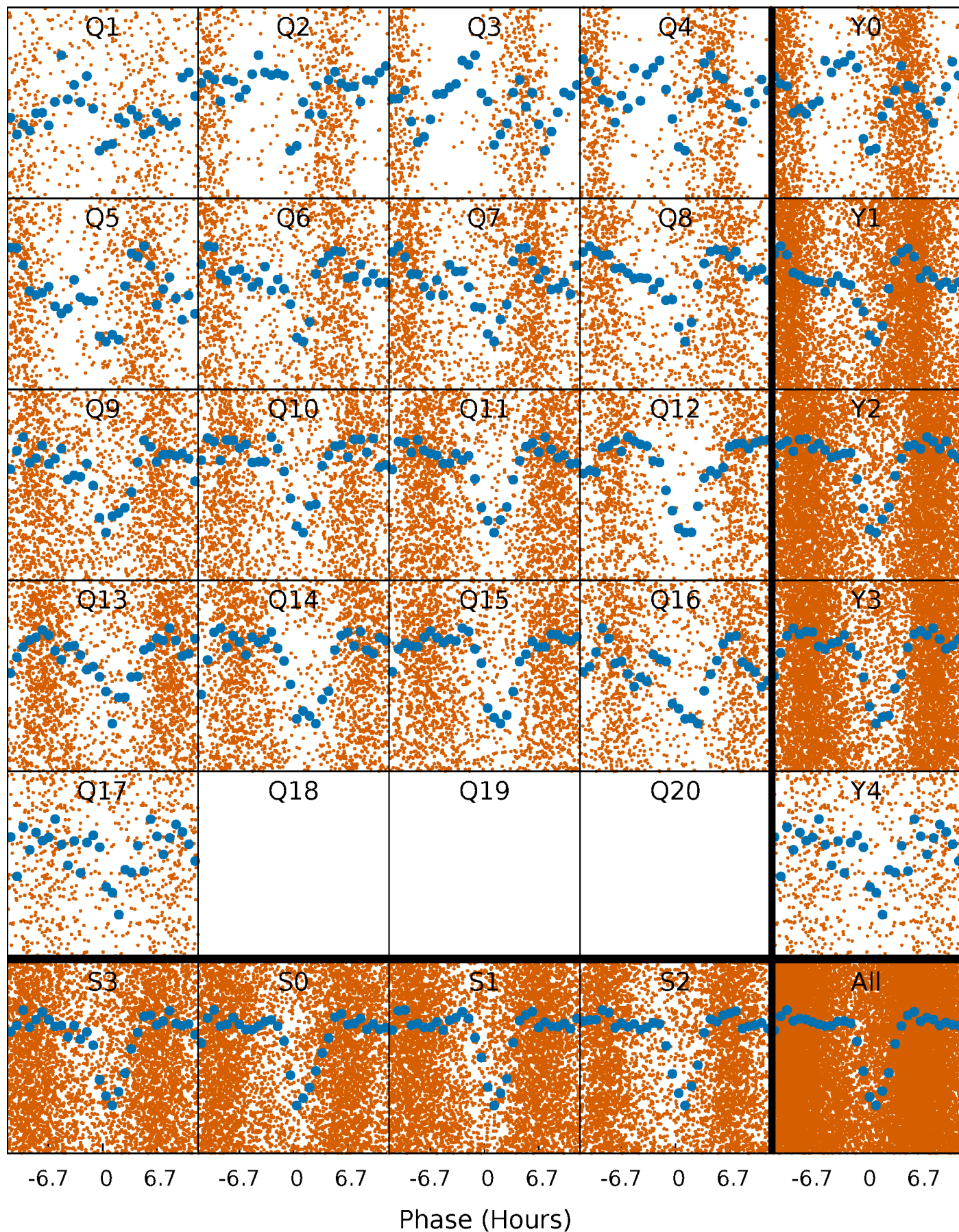


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



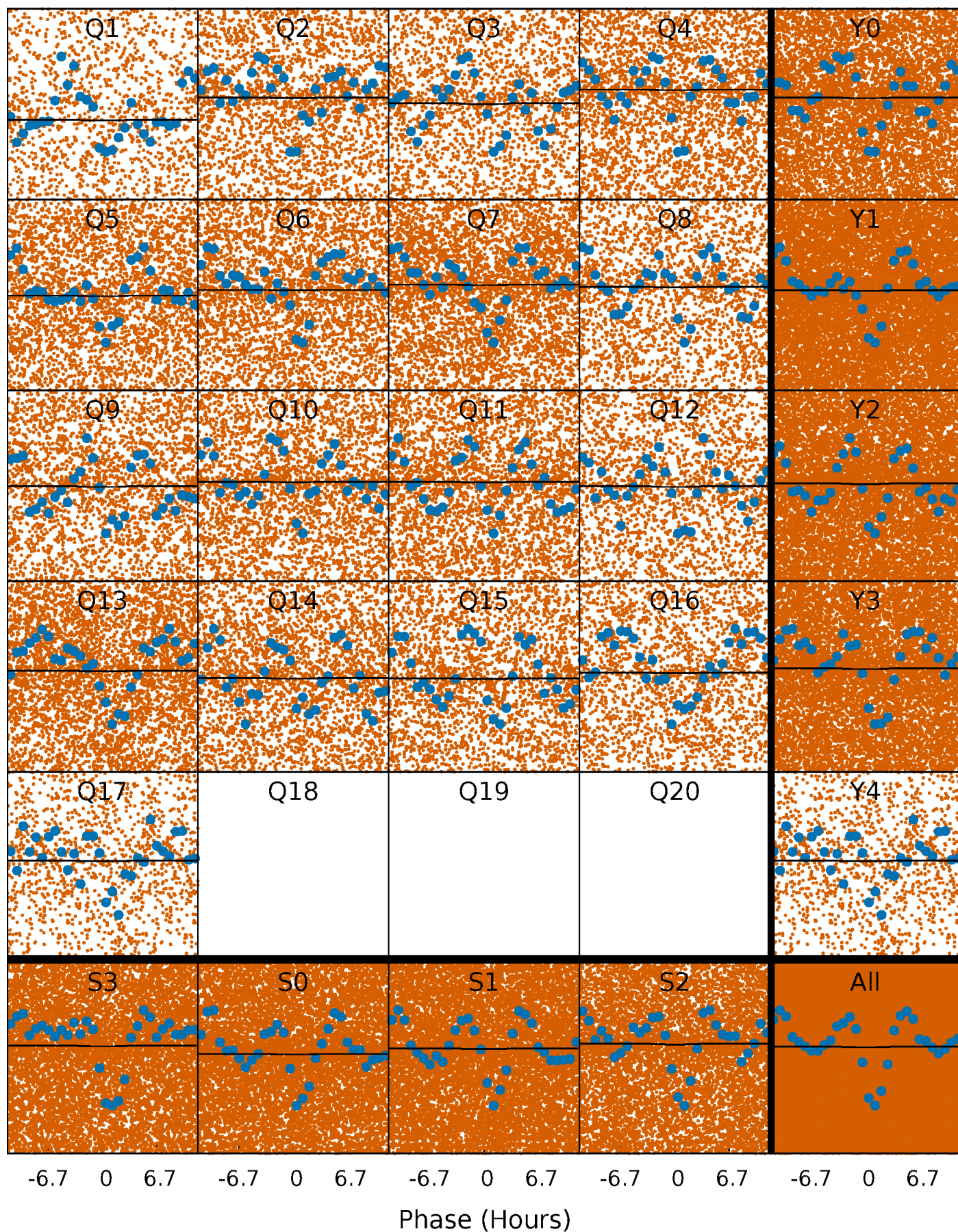
PDC Quarter-Phased Transit Curves

TCE 011086712-01 P= 0.652439 Days $T_0=131.689574$ (BKJD)



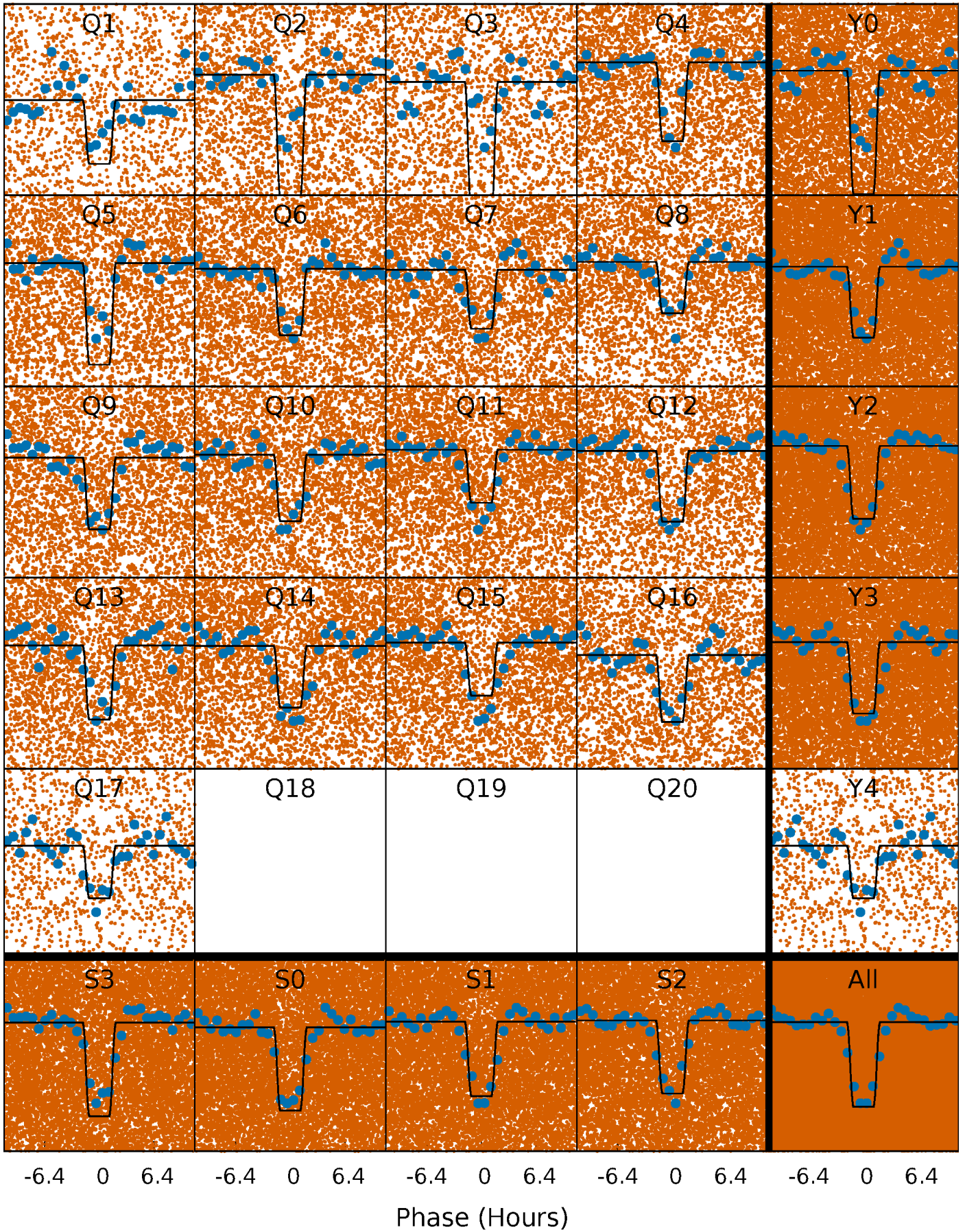
DV Quarter-Phased Transit Curves

TCE 011086712-01 P= 0.652439 Days $T_0=131.689574$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

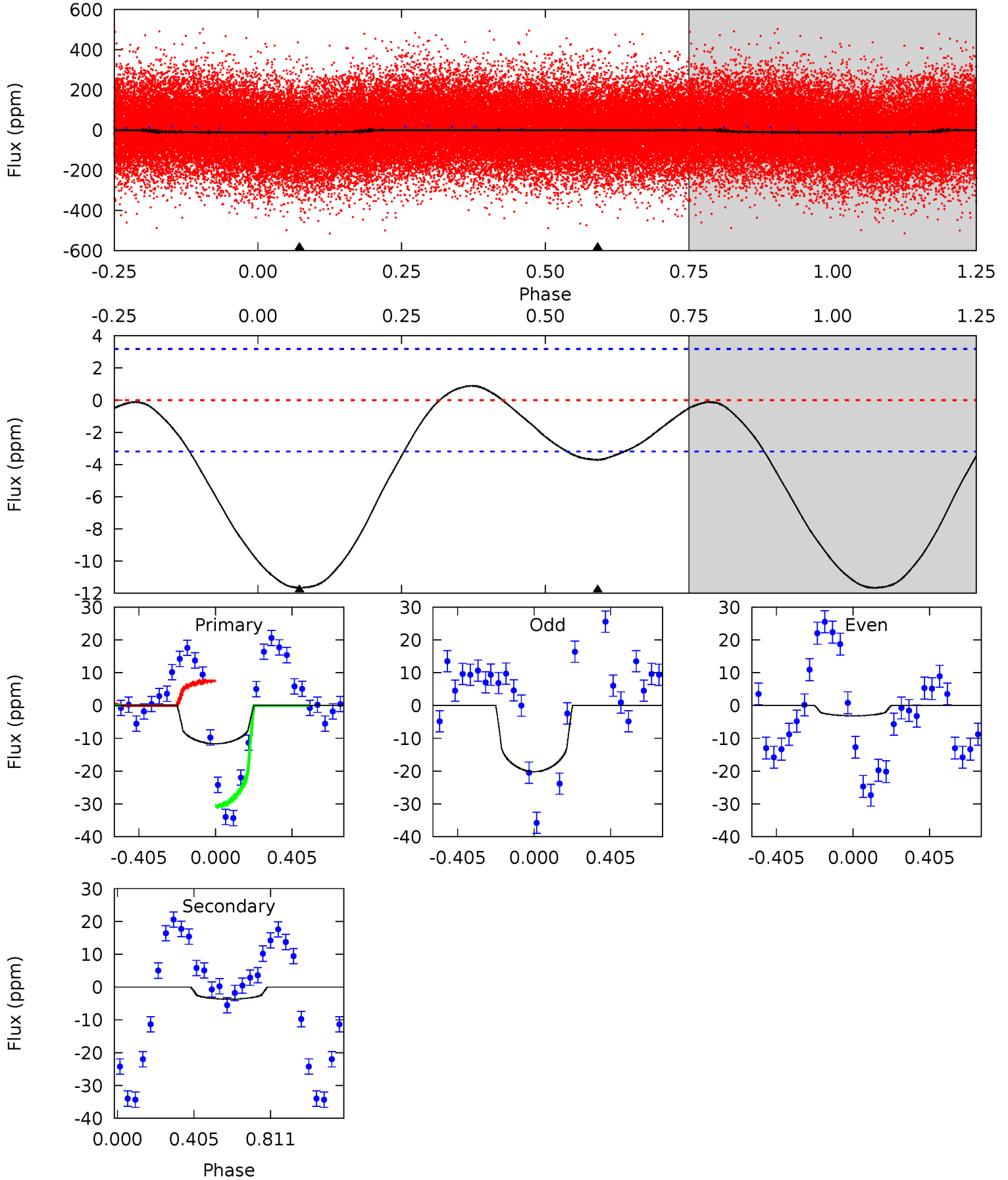
TCE 011086712-01 P= 0.652465 Days $T_0=131.708955$ (BKJD)



DV Model-Shift Uniqueness Test

011086712-01, P = 0.652439 Days, E = 131.037135 Days

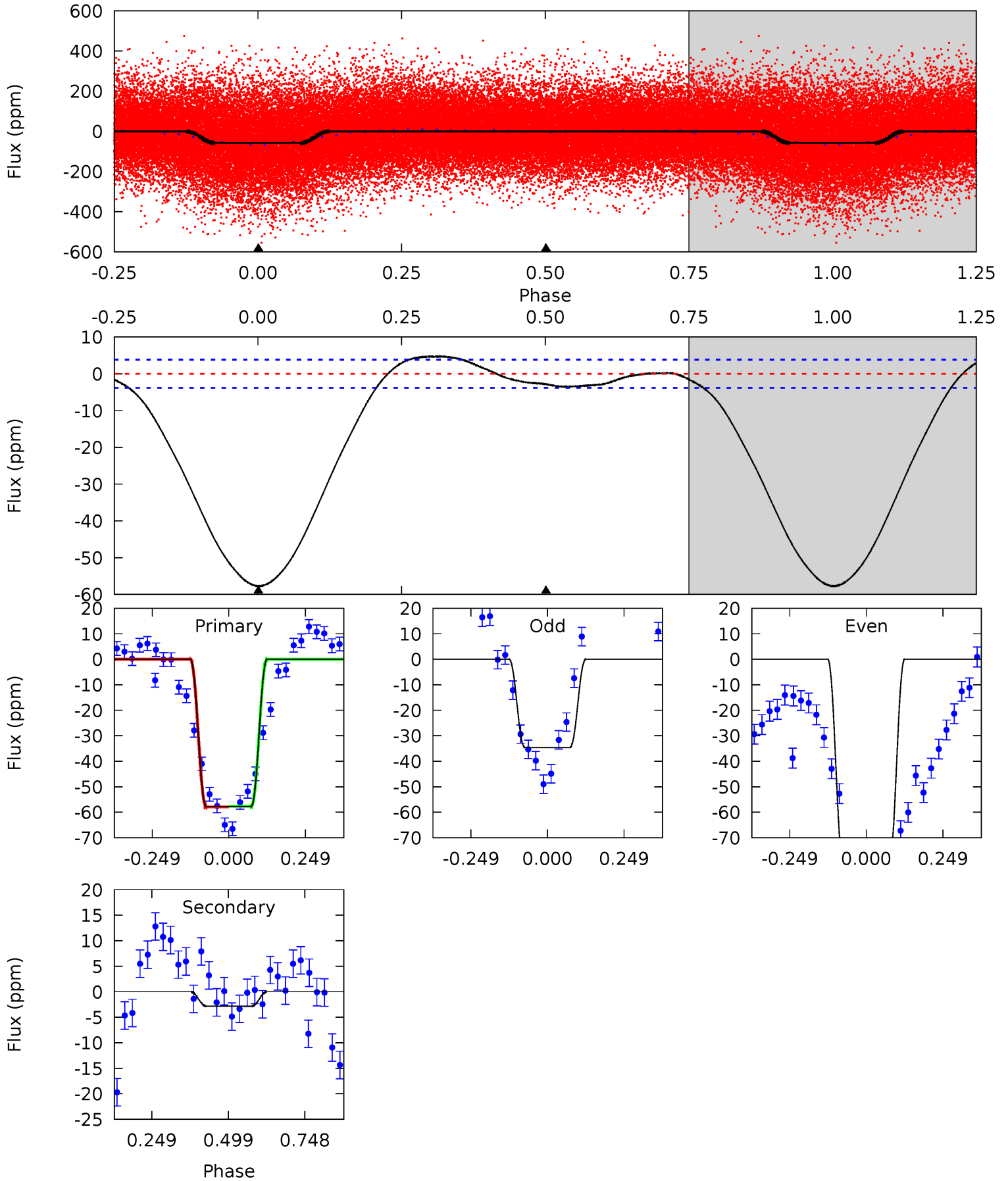
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.6	4.95	0	0	4.26	0.83	0.98	15.6	15.6	4.95	4.95	11.0	1.08	0.07	15.2



Alt Model-Shift Uniqueness Test

011086712-01, P = 0.652465 Days, E = 131.056490 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
65.8	3.22	0	0	4.37	1.15	2.90	65.8	65.8	3.22	3.22	26.4	1.02	0.08	0.10



Stellar Parameters For KIC 011086712

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6828^{+81}_{-81}	$3.994^{+0.168}_{-0.112}$	$0.040^{+0.150}_{-0.150}$	$2.080^{+0.411}_{-0.411}$	$1.556^{+0.147}_{-0.134}$	$0.243^{+0.193}_{-0.093}$
	+1%/-1%	+4%/-3%	+375%/-375%	+20%/-20%	+9%/-9%	+79%/-38%
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 011086712-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-4 ± 1	$2.14^{+2.19}_{-1.49}$	4623^{+229}_{-256}	-3650^{+8959}_{-398}	$0.128^{+1.376}_{-0.096}$
Alt.	-3 ± 1	$2.76^{+2.60}_{-1.72}$	4634^{+229}_{-234}	-3877^{+7430}_{-224}	$0.058^{+0.373}_{-0.043}$

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

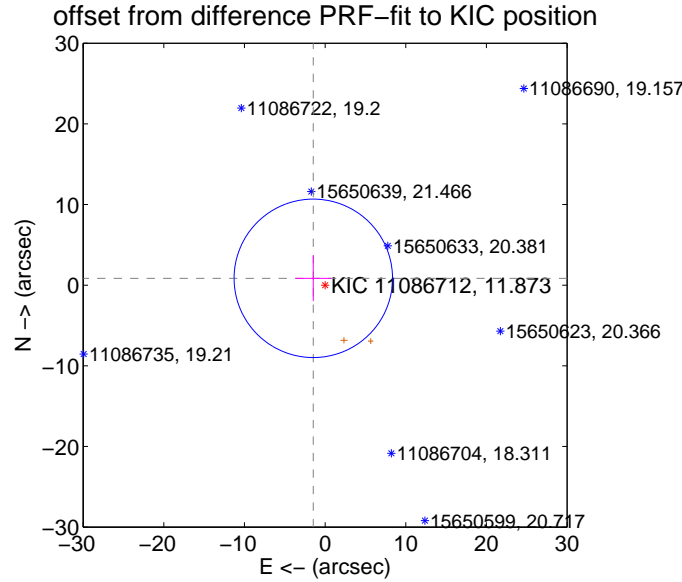
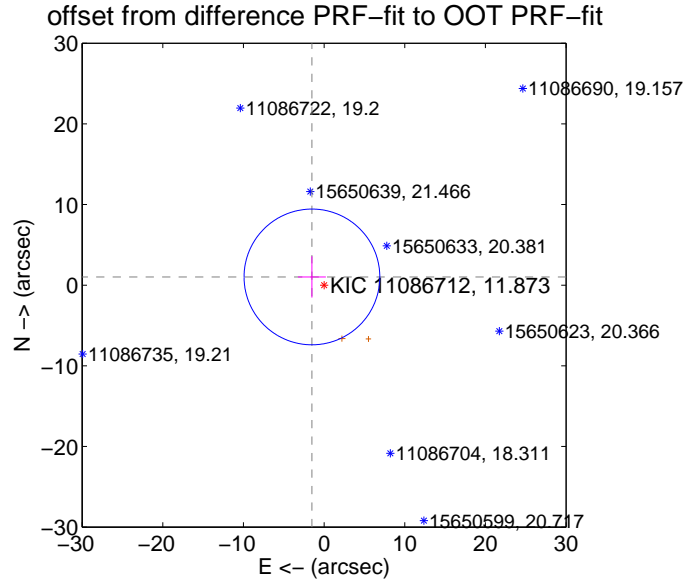
DV Centroid Data

Supplemental centroid analysis for 011086712-01. **Kepler magnitude: 11.87.** Transit SNR 0.34

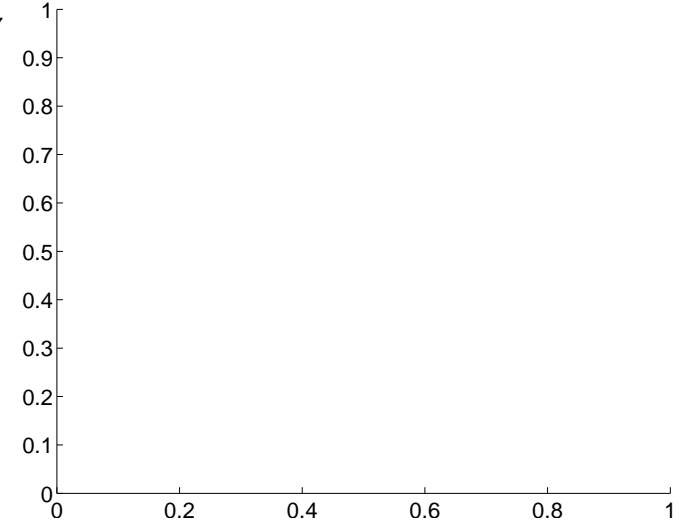
There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.821 ± 2.805	0.65	1.509 ± 1.731	1.020 ± 2.567
PRF-fit source offset from KIC position	1.691 ± 3.274	0.52	1.463 ± 2.222	0.848 ± 2.834
photometric centroid source offset	—	—	—	—

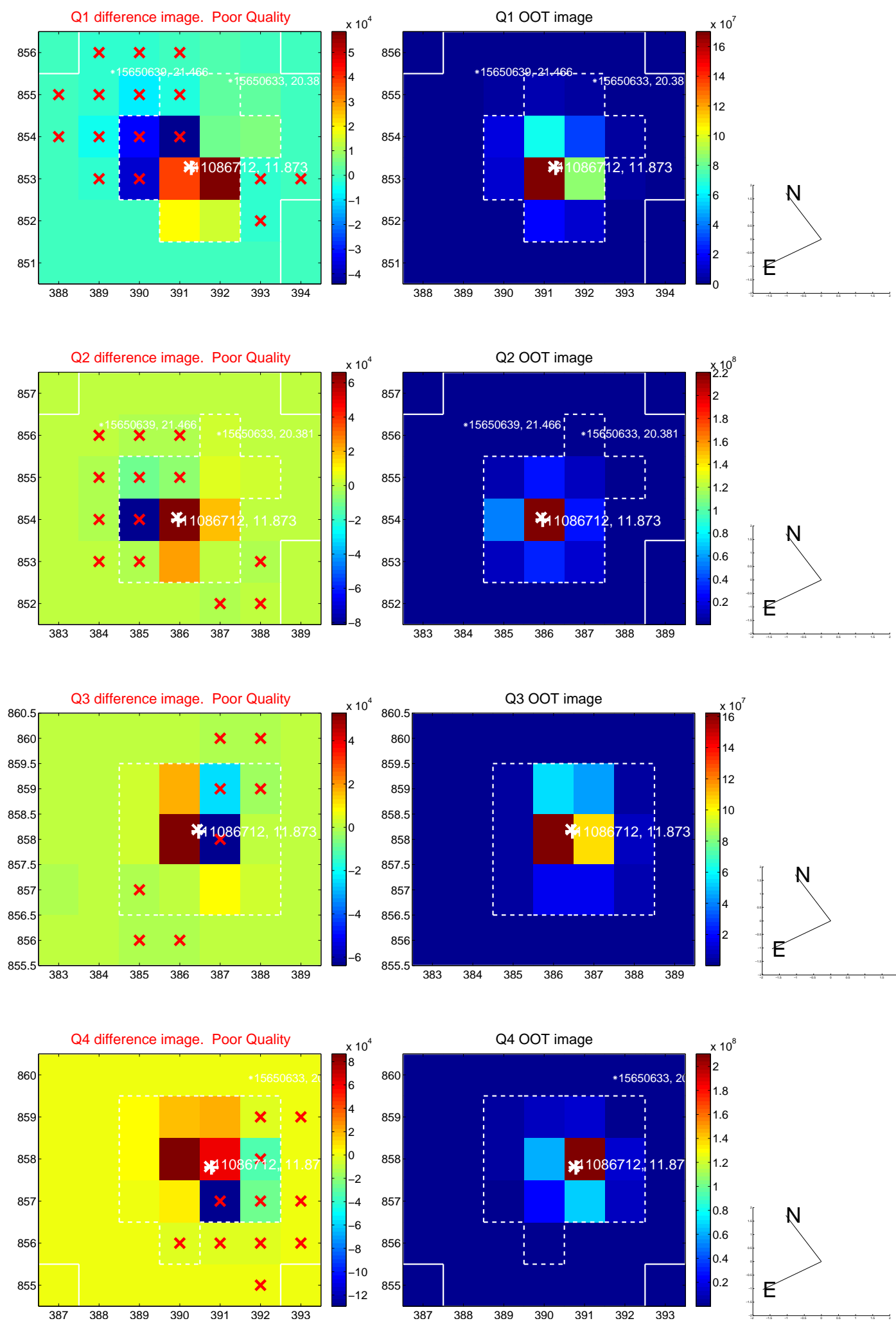


There are no photometric centroids

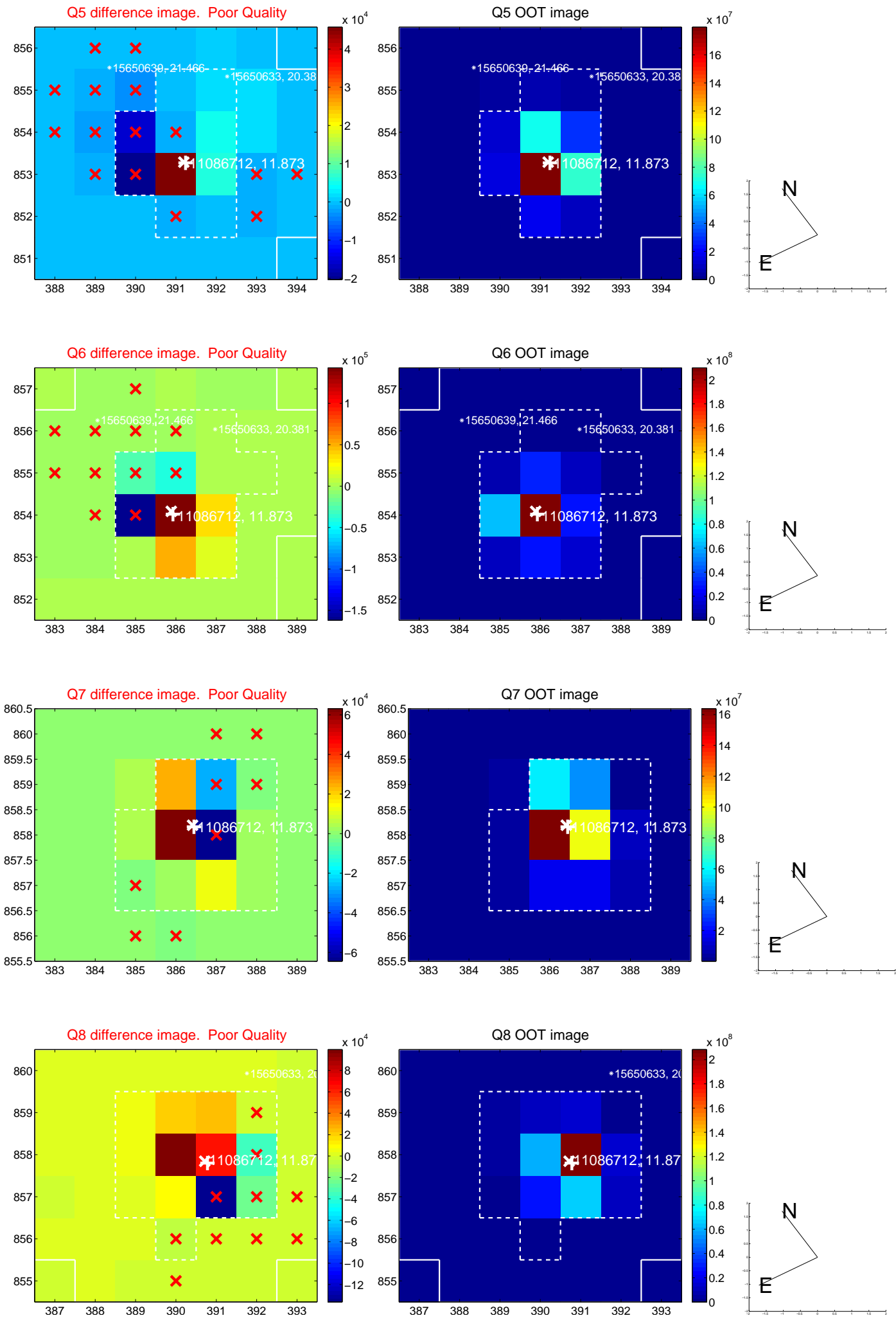


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

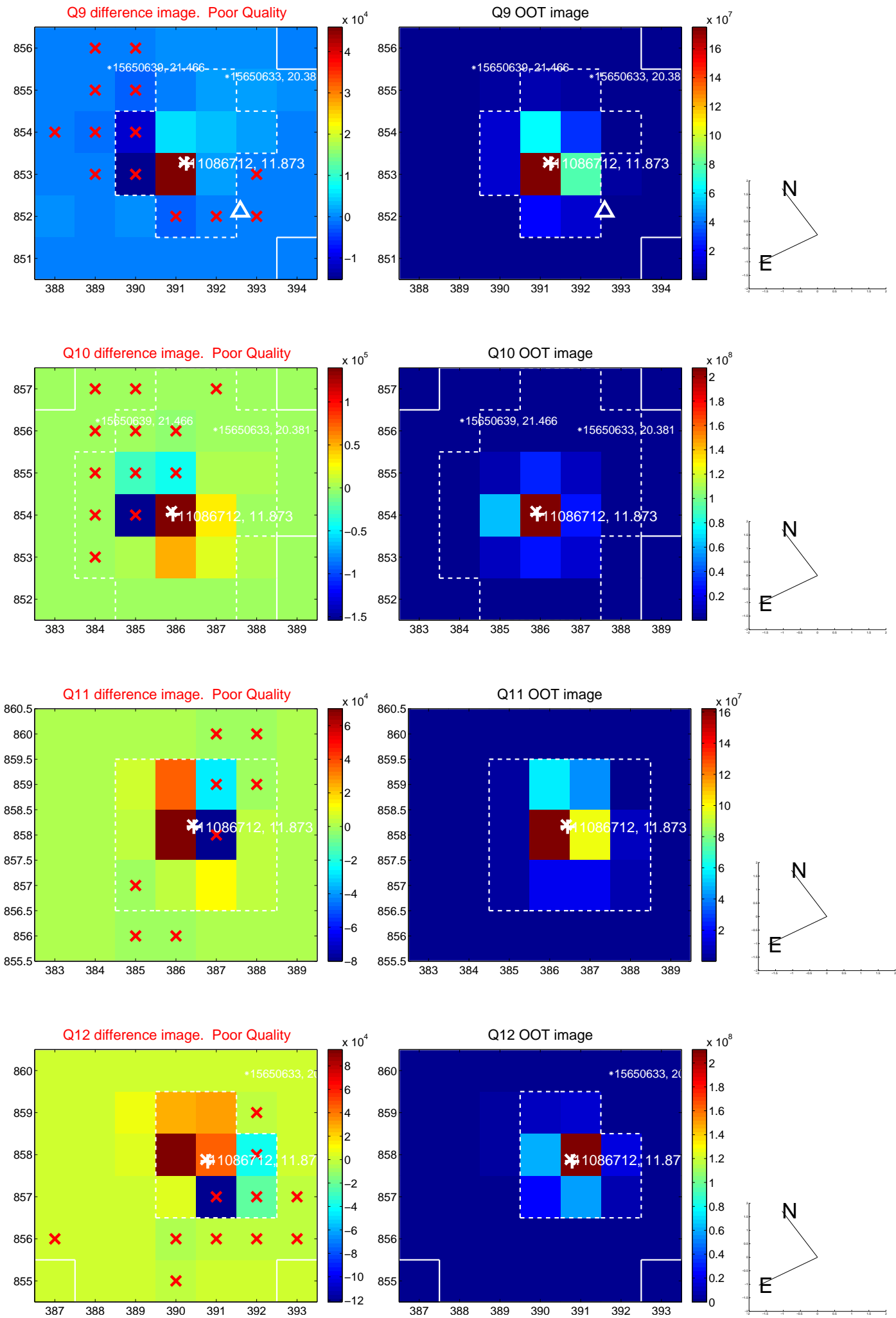
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



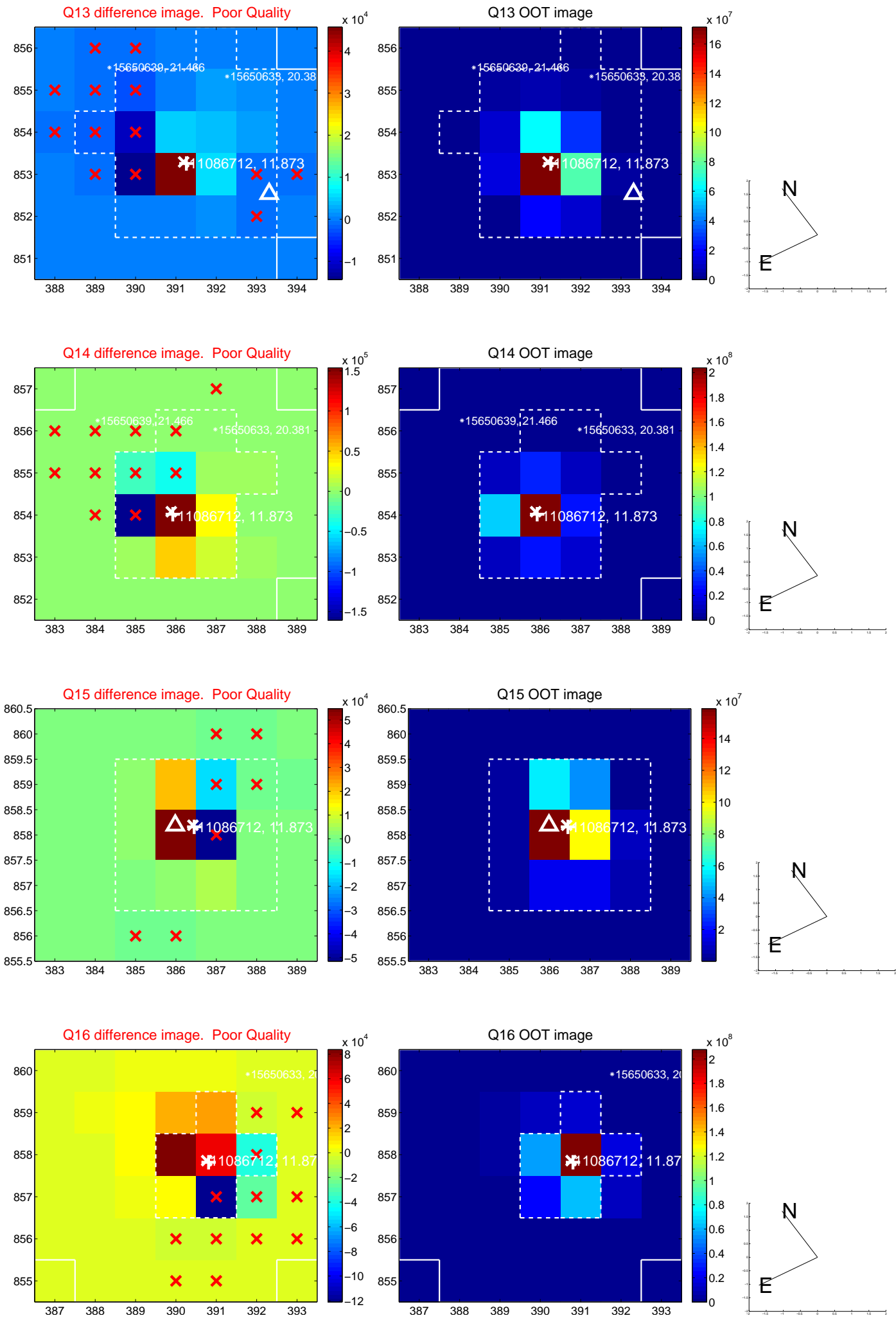
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



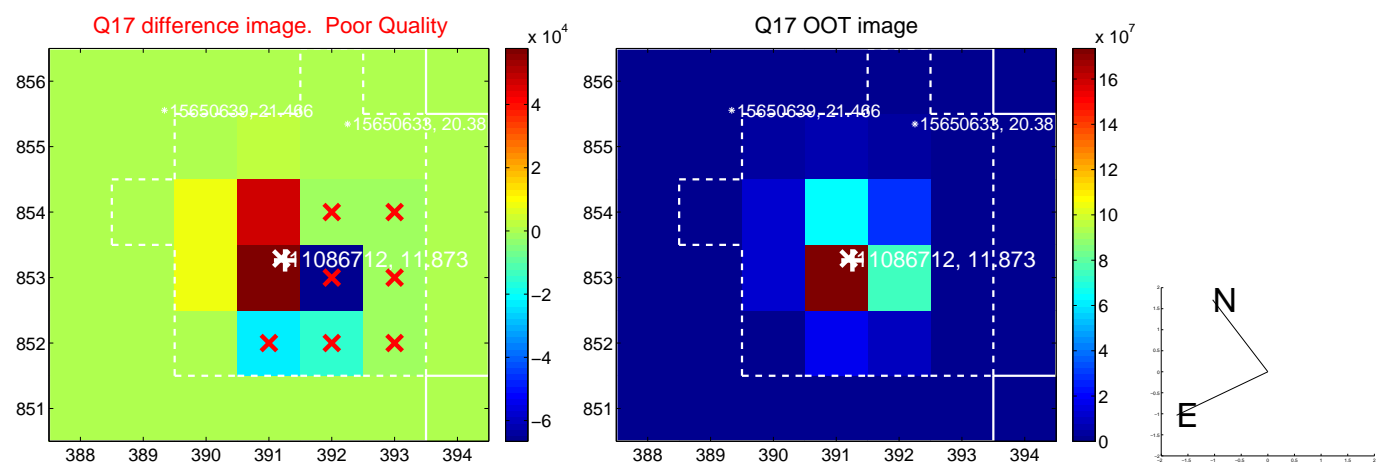
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

