

KIC 006392244

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})
006392244-01	OBS	No	1.165585	131.786018	21.8	7.674	7.5	8.7	1.18	6579	0.58	4879.93
006392244-02	OBS	No	35.458998	136.215257	174.3	7.441	9.5	8.8	1.18	6579	1.70	51.38
006392244-04	OBS	No	68.021218	140.907081	346.3	2.178	8.1	8.3	1.18	6579	2.38	21.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006392244-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
006392244-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006392244-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

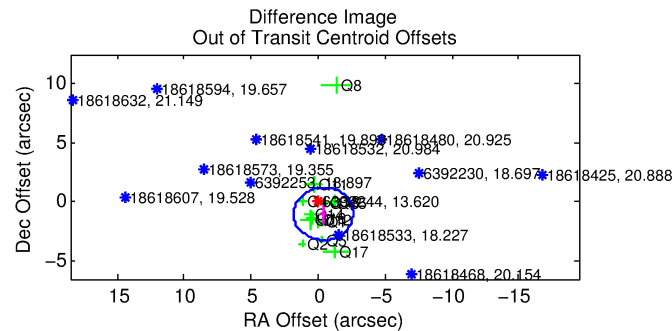
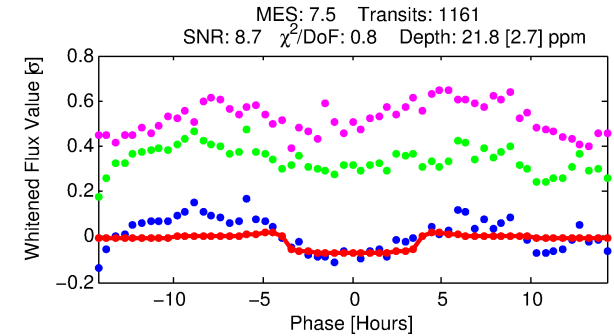
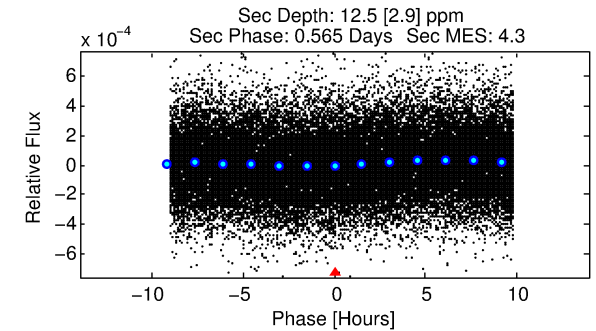
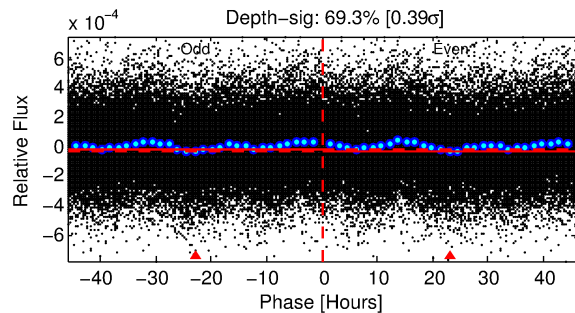
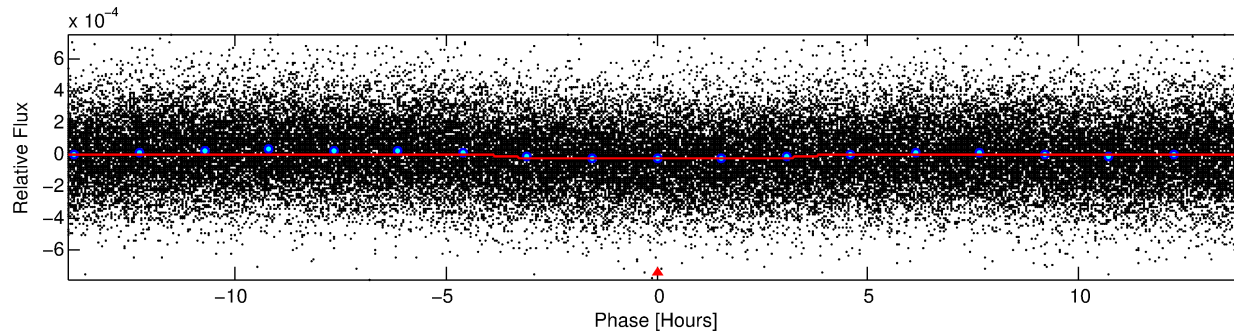
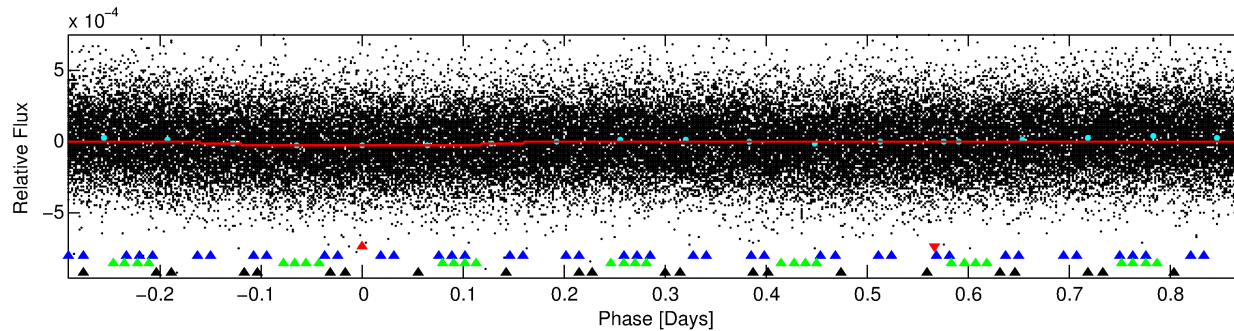
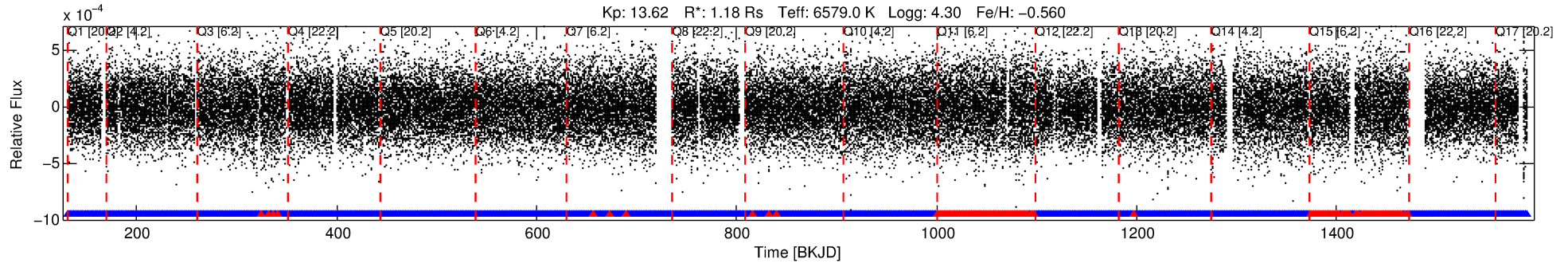
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006392244-01

No Significant Match Found

DV One-Page Summary

KIC: 6392244 Candidate: 1 of 4 Period: 1.166 d



DV Fit Results:

Period = 1.16558 [0.00002] d
Epoch = 131.7860 [0.0059] BKJD
Rp/R* = 0.0045 [0.0028]
a/R* = 1.21 [1.32]
b = 0.63 [3.36]
Seff = 4879.93 [1683.65]
Teq = 2131 [184] K
Rp = 0.58 [0.39] Re
a = 0.0218 [0.0049] AU
Ag = 9.71 [12.62] [0.69 σ]
Teffp = 5817 [1842] K [1.99 σ]

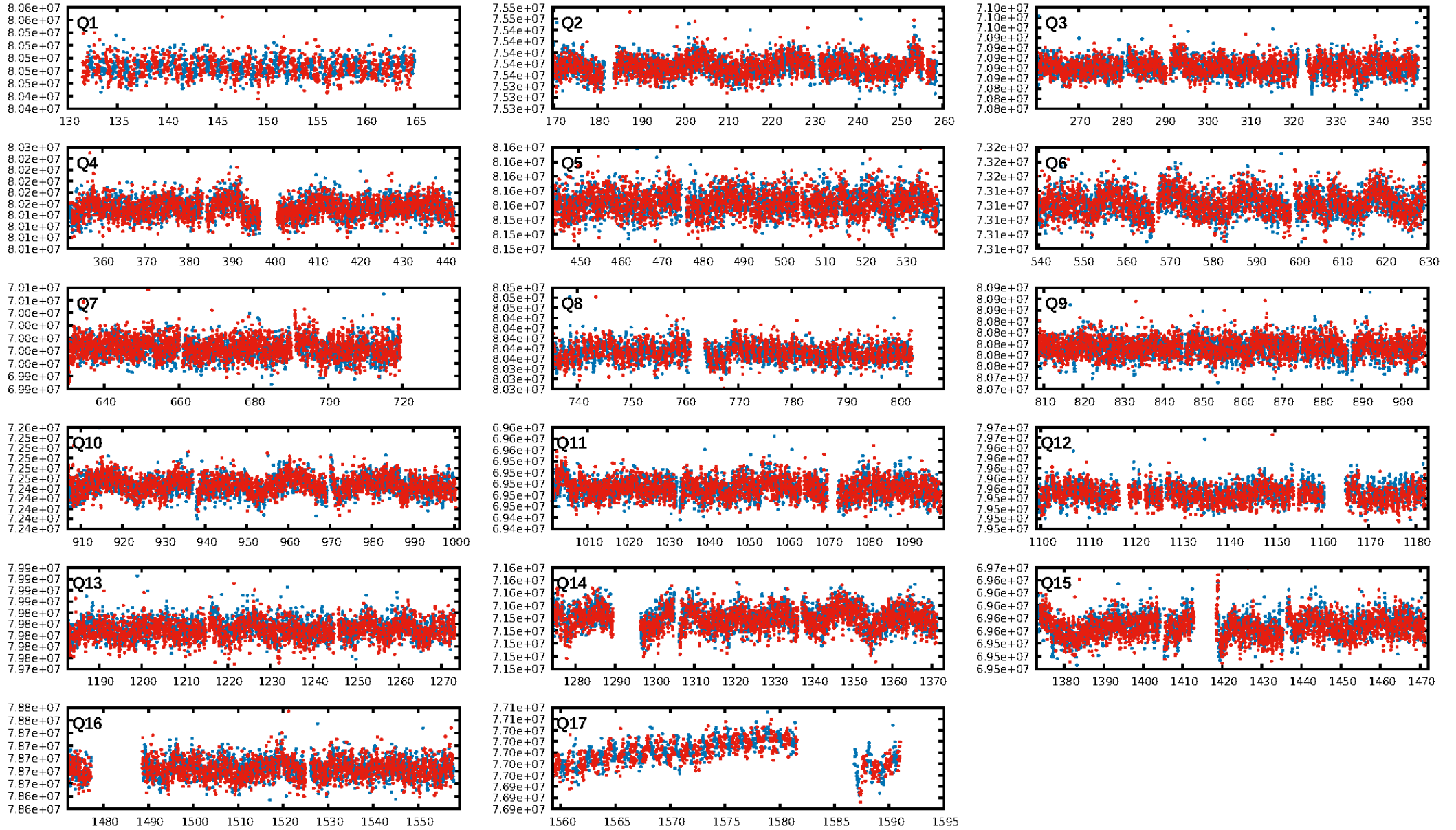
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [77.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.38e-08
RollingBand-fgt: 0.85 [944/1109]
GhostDiagnostic-chr: 1.302
Centroid-sig: N/A
Centroid-so: 0.220 arcsec [0.22 σ]
OotOffset-rm: 1.061 arcsec [1.43 σ]
KicOffset-rm: 1.173 arcsec [1.41 σ]
OotOffset-st: 2/4/4/4 [14]
KicOffset-st: 2/4/4/4 [14]
DiffImageQuality-fgm: 0.64 [9/14]
DiffImageOverlap-fno: 1.00 [17/17]

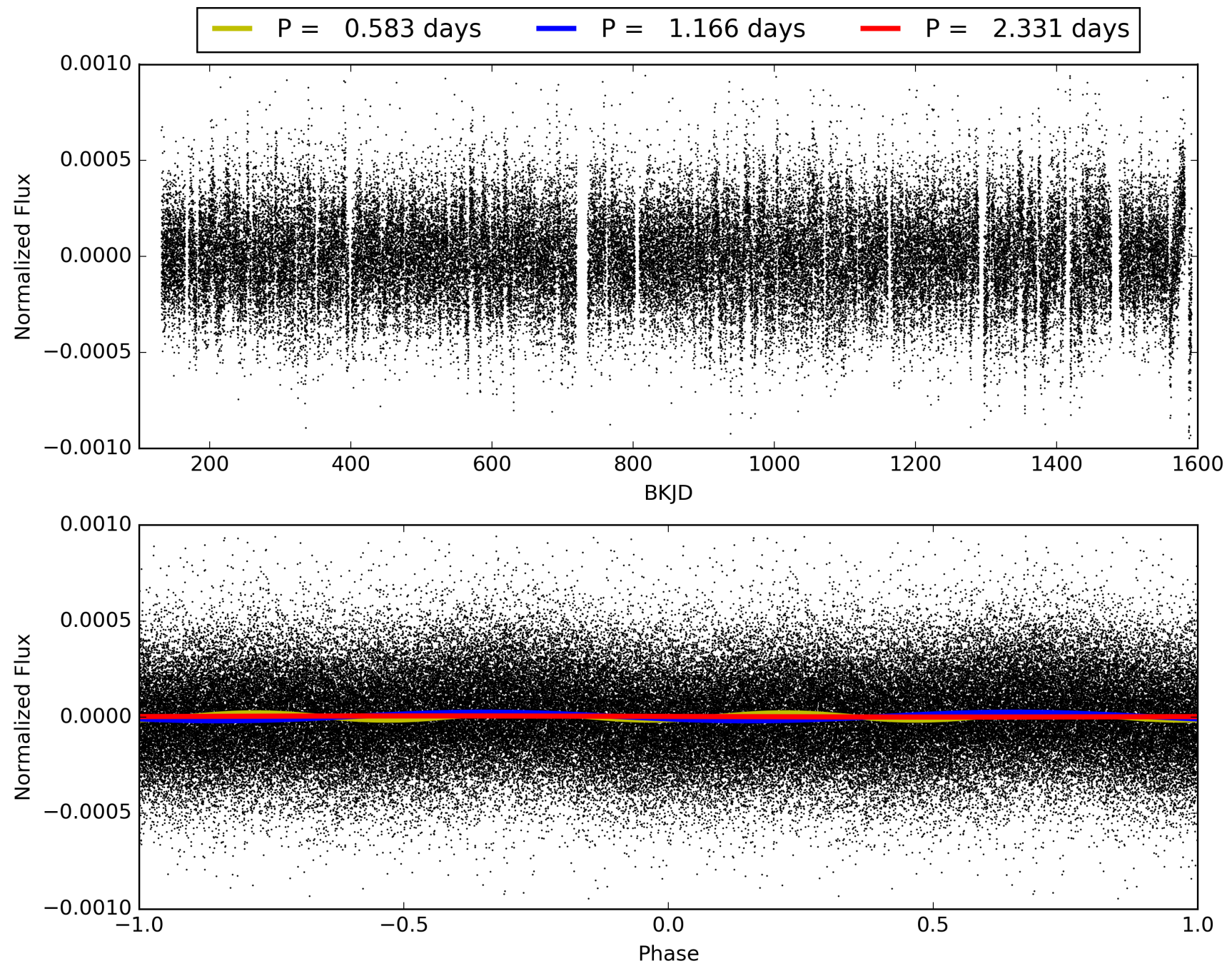
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006392244-01, PDC Light Curves

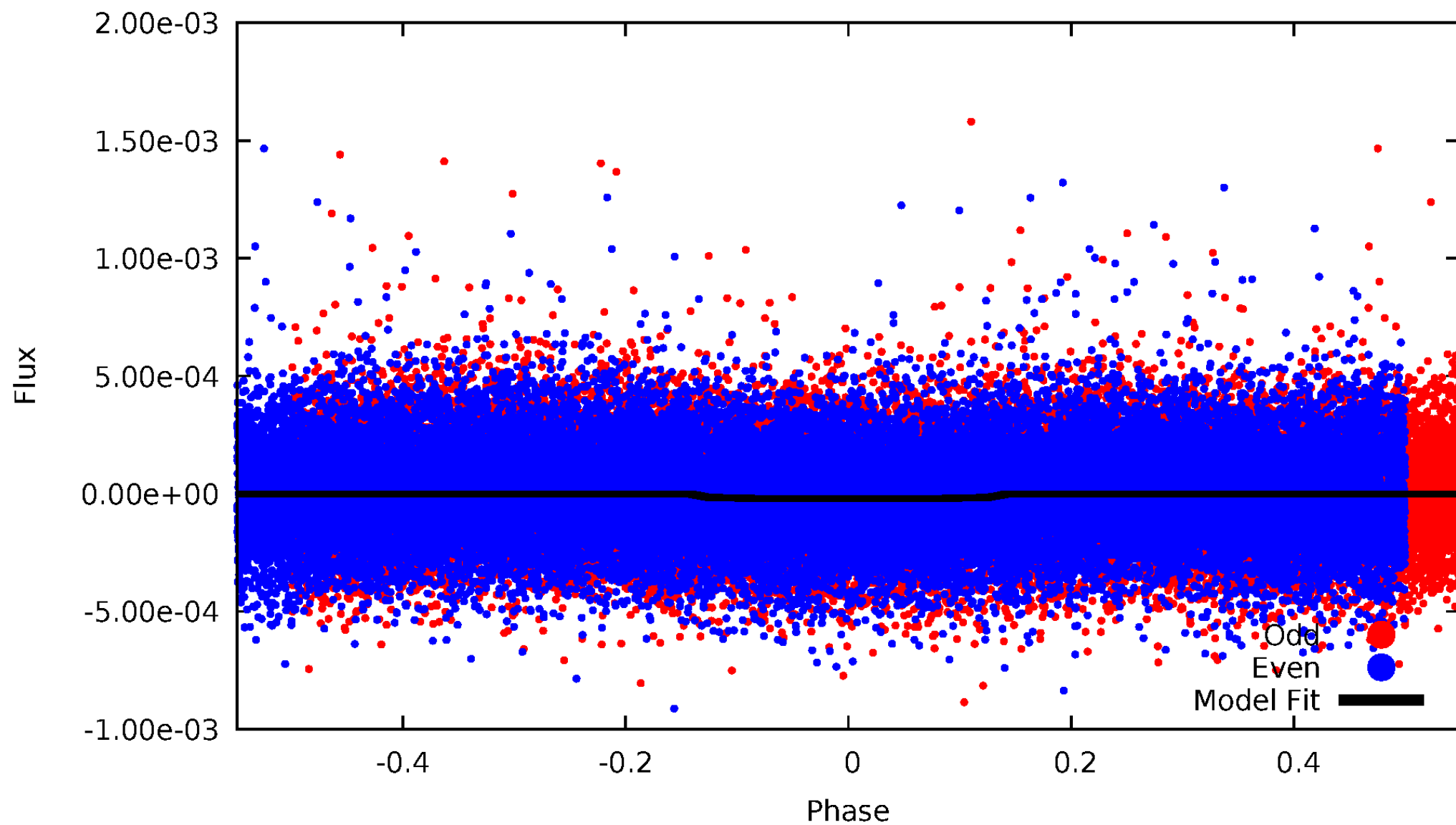


TCE 006392244-01



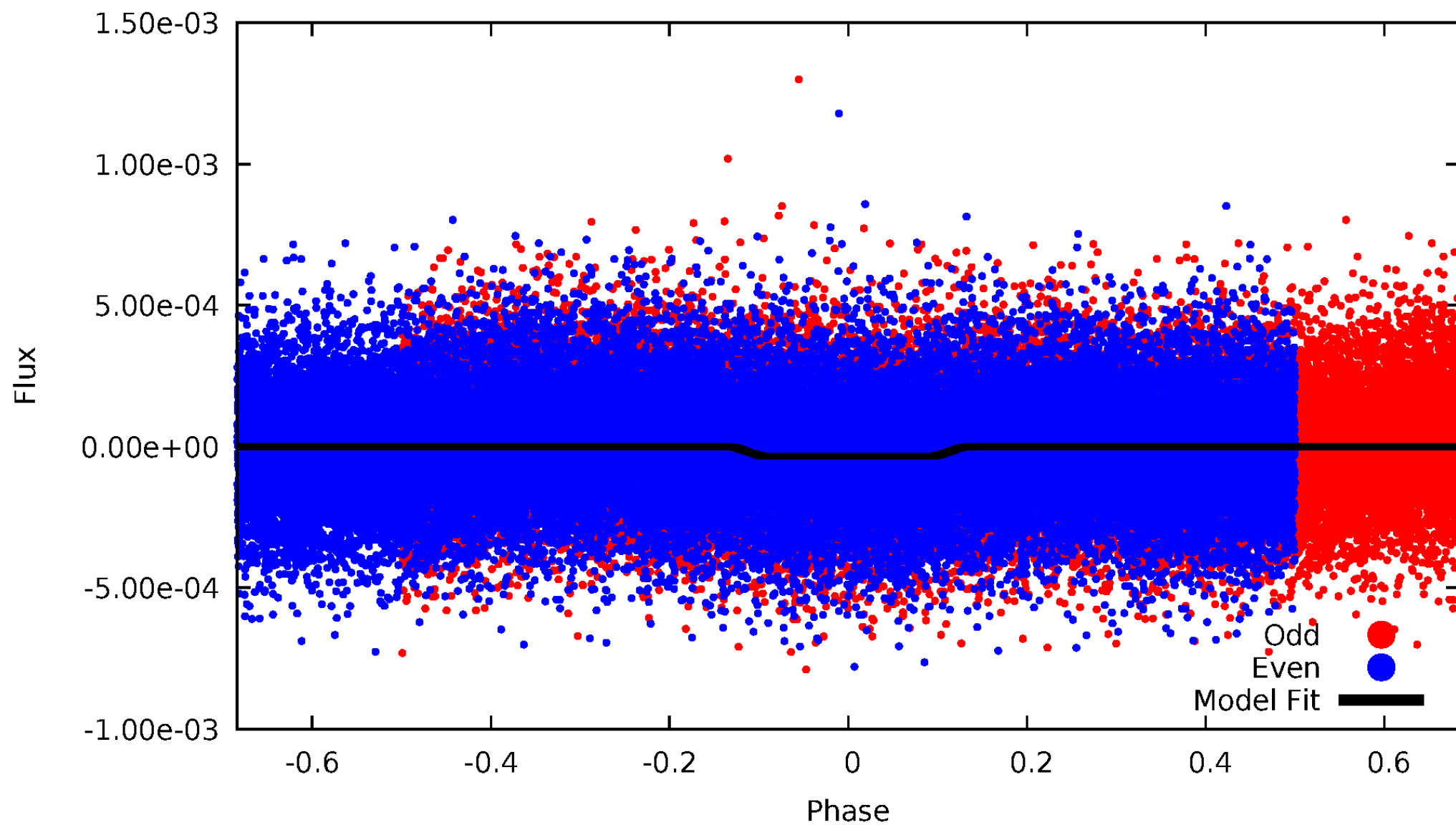
DV Odd/Even

TCE 006392244-01

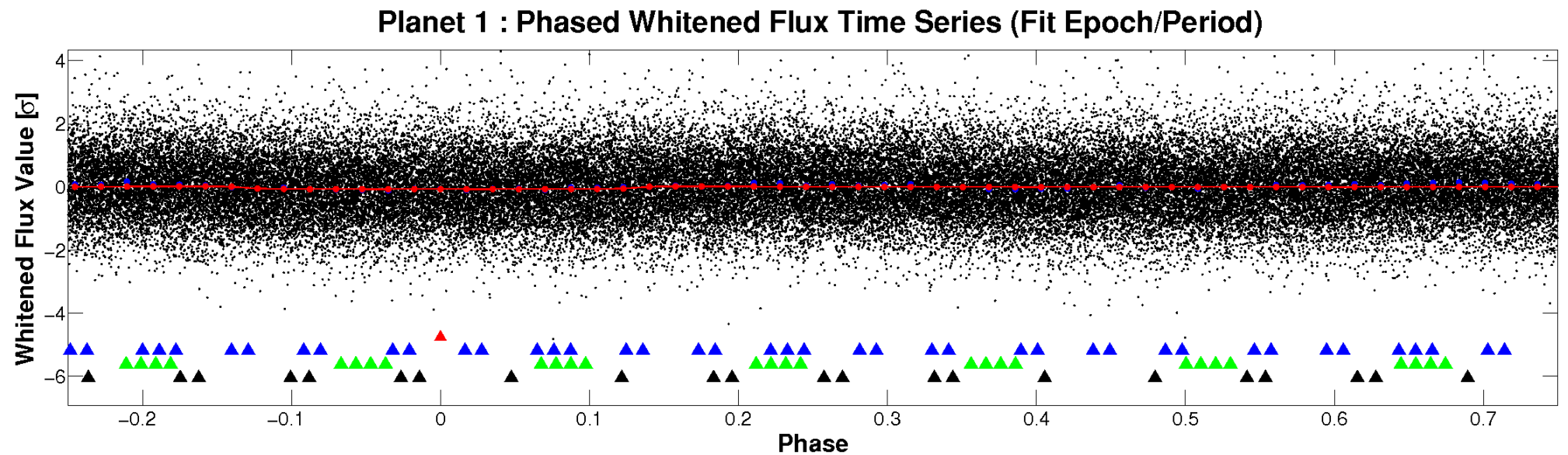
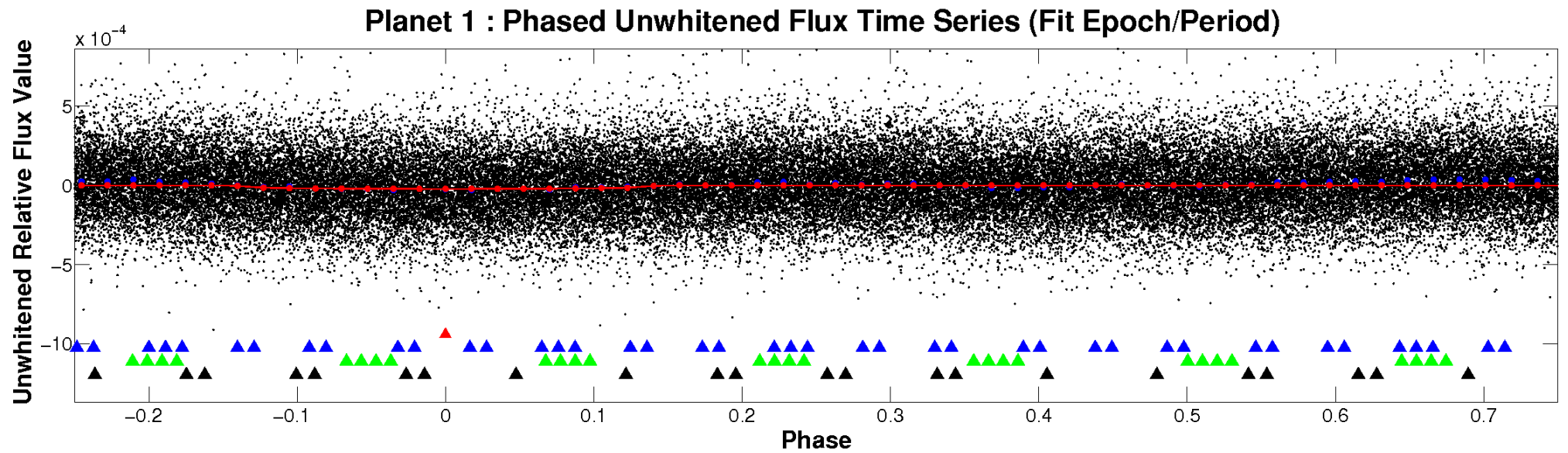


ALT Odd/Even

TCE 006392244-01

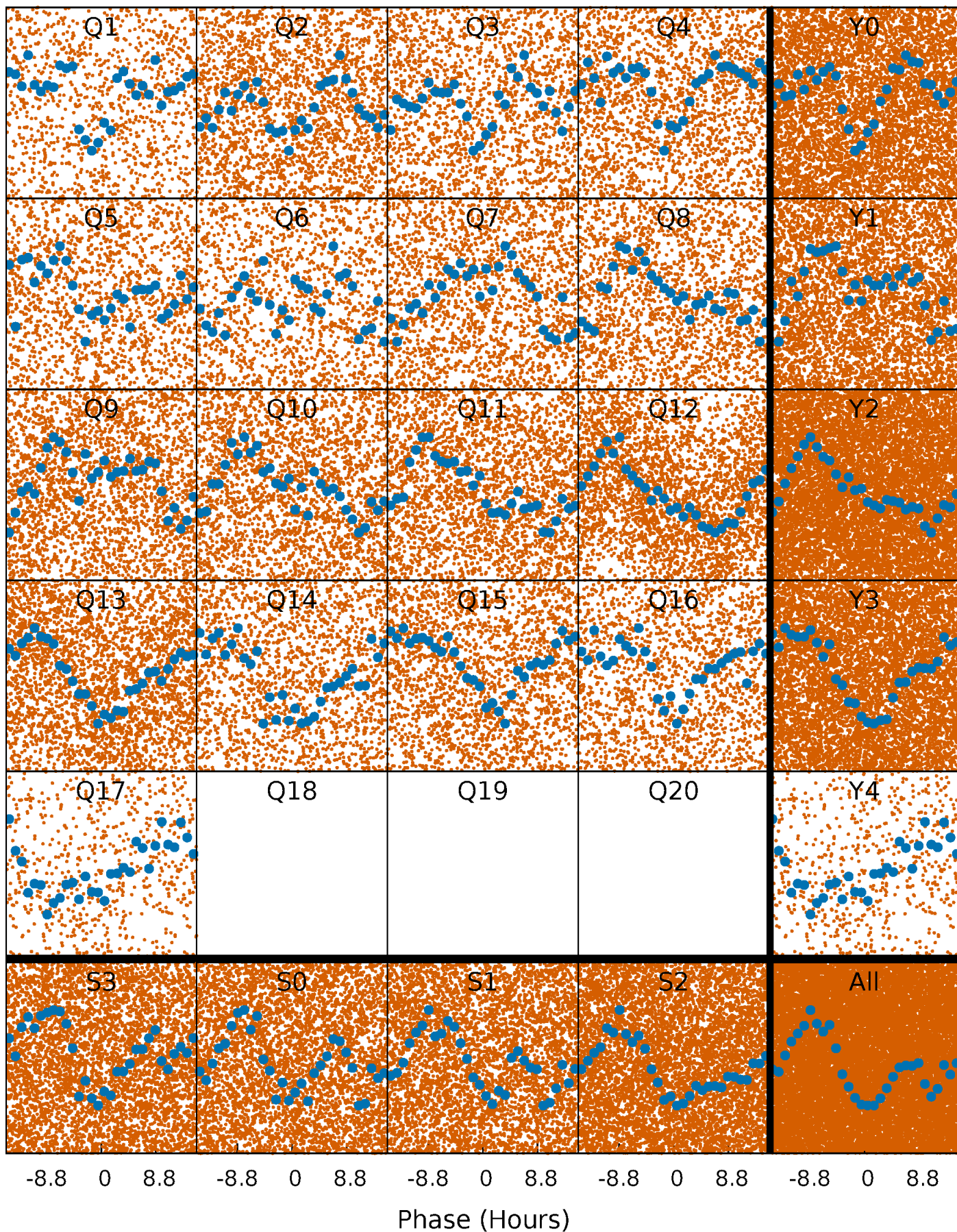


Non-Whitened Vs. Whitened Light Curve



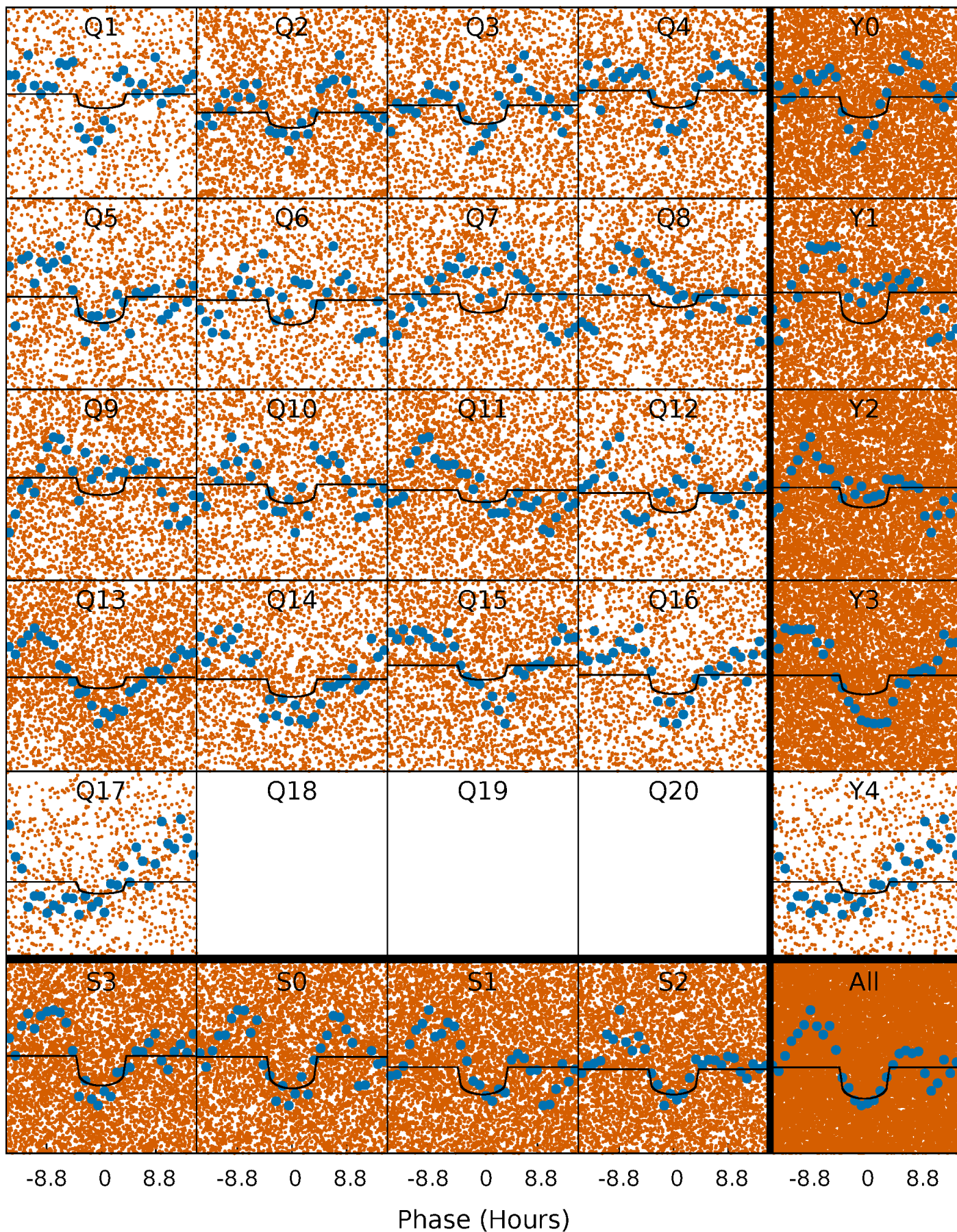
PDC Quarter-Phased Transit Curves

TCE 006392244-01 P= 1.165585 Days $T_0=131.786018$ (BKJD)



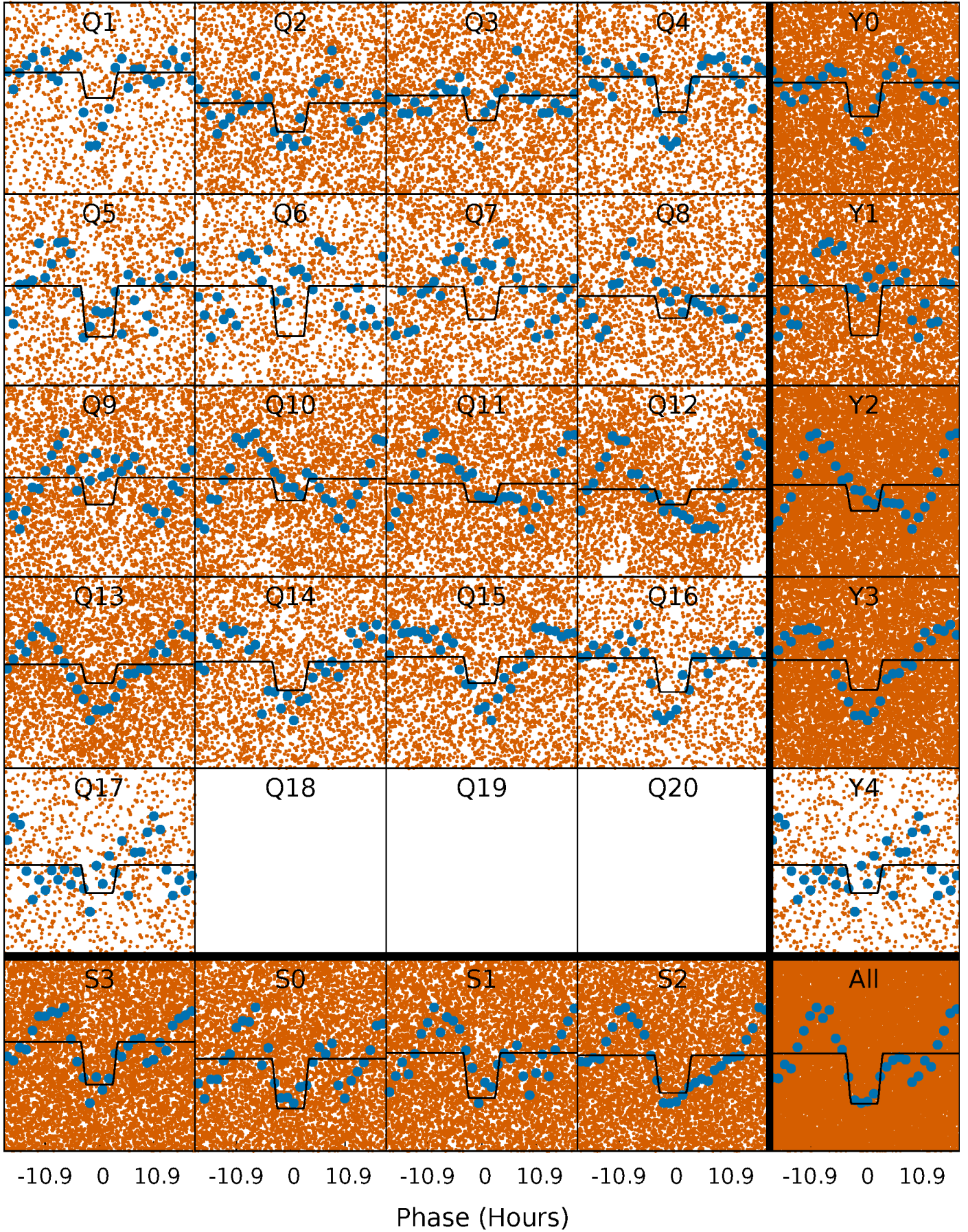
DV Quarter-Phased Transit Curves

TCE 006392244-01 P= 1.165585 Days $T_0=131.786018$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

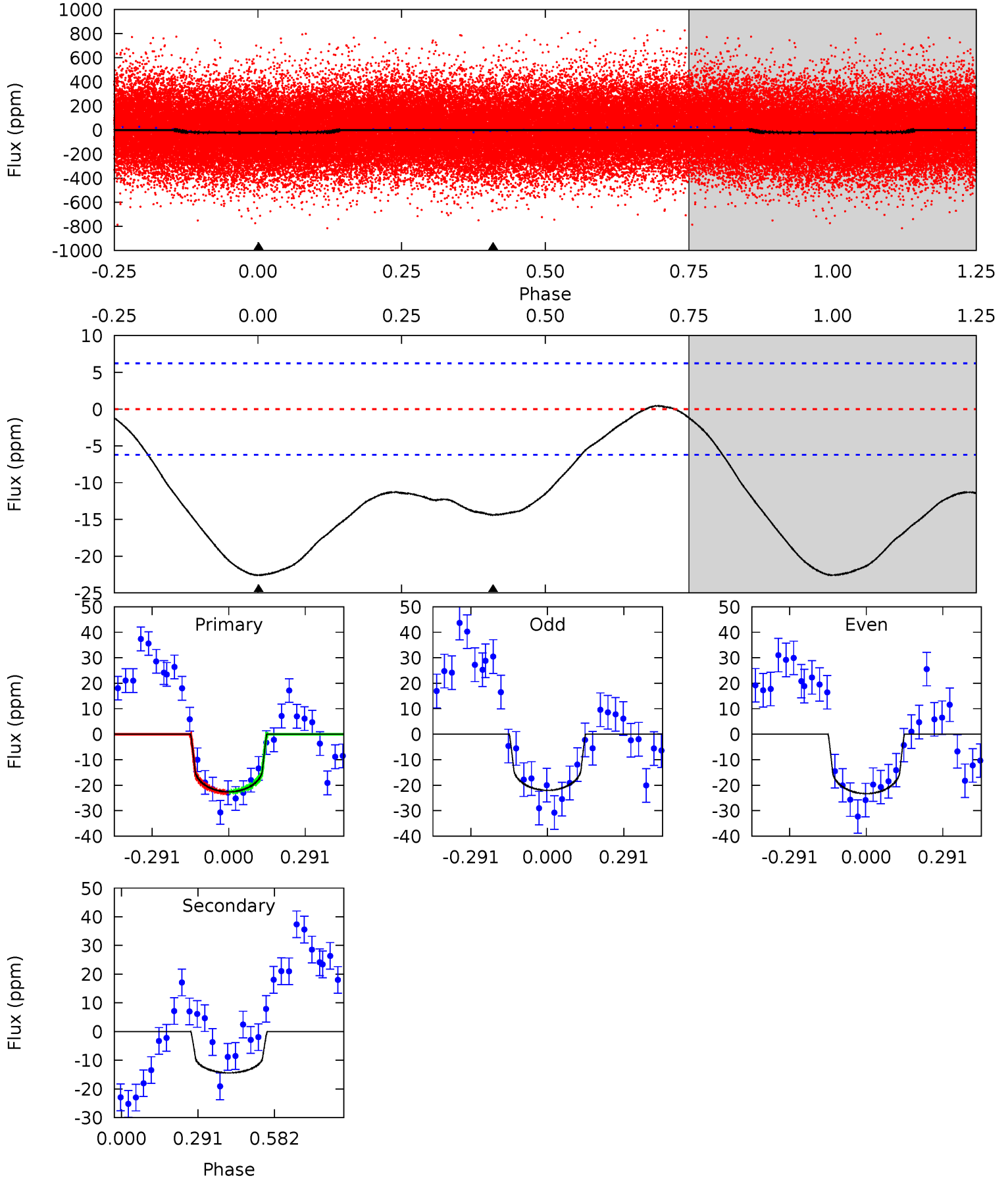
TCE 006392244-01 P= 1.165655 Days $T_0=131.770427$ (BKJD)



DV Model-Shift Uniqueness Test

006392244-01, P = 1.165585 Days, E = 130.620433 Days

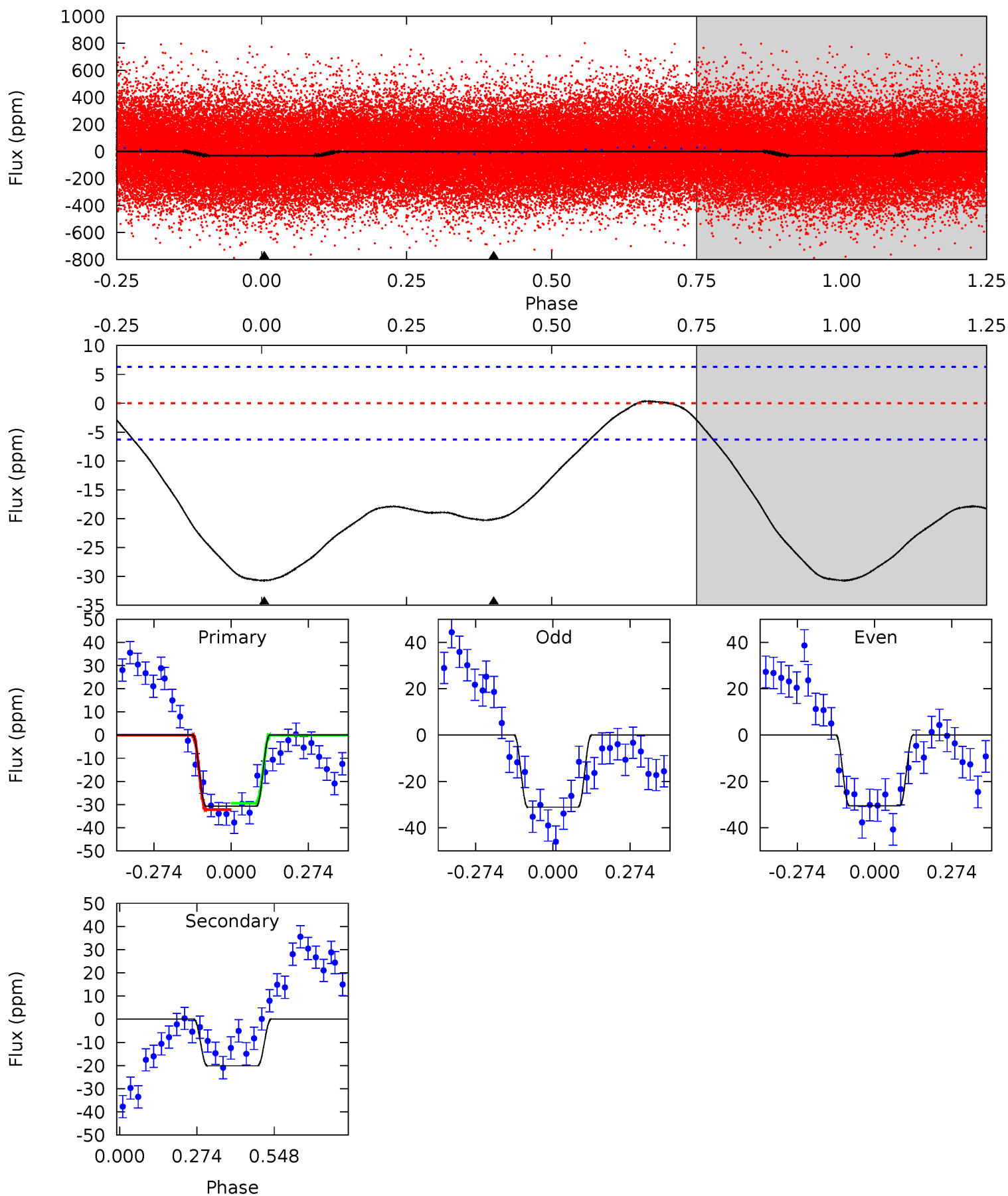
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.7	10.0	0	0	4.34	1.06	0.36	15.7	15.7	10.0	10.0	0.45	1.04	0.02	0.11



Alt Model-Shift Uniqueness Test

006392244-01, P = 1.165655 Days, E = 130.604772 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.2	13.9	0	0	4.35	1.09	0.69	21.2	21.2	13.9	13.9	0.21	1.01	0.01	0.90



Stellar Parameters For KIC 006392244

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6579^{+177}_{-217}	$4.305^{+0.139}_{-0.170}$	$-0.560^{+0.300}_{-0.300}$	$1.176^{+0.323}_{-0.189}$	$1.020^{+0.149}_{-0.112}$	$0.882^{+0.591}_{-0.408}$
	+3%/-3%	+3%/-4%	+54%/-54%	+27%/-16%	+15%/-11%	+67%/-46%
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 006392244-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-14 ± 1	$0.63^{+0.34}_{-0.34}$	2976^{+212}_{-173}	5776^{+3201}_{-1017}	$9.399^{+37.279}_{-5.325}$
Alt.	-20 ± 1	$0.78^{+0.39}_{-0.36}$	2985^{+197}_{-177}	5661^{+2221}_{-925}	$8.932^{+22.177}_{-4.974}$

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

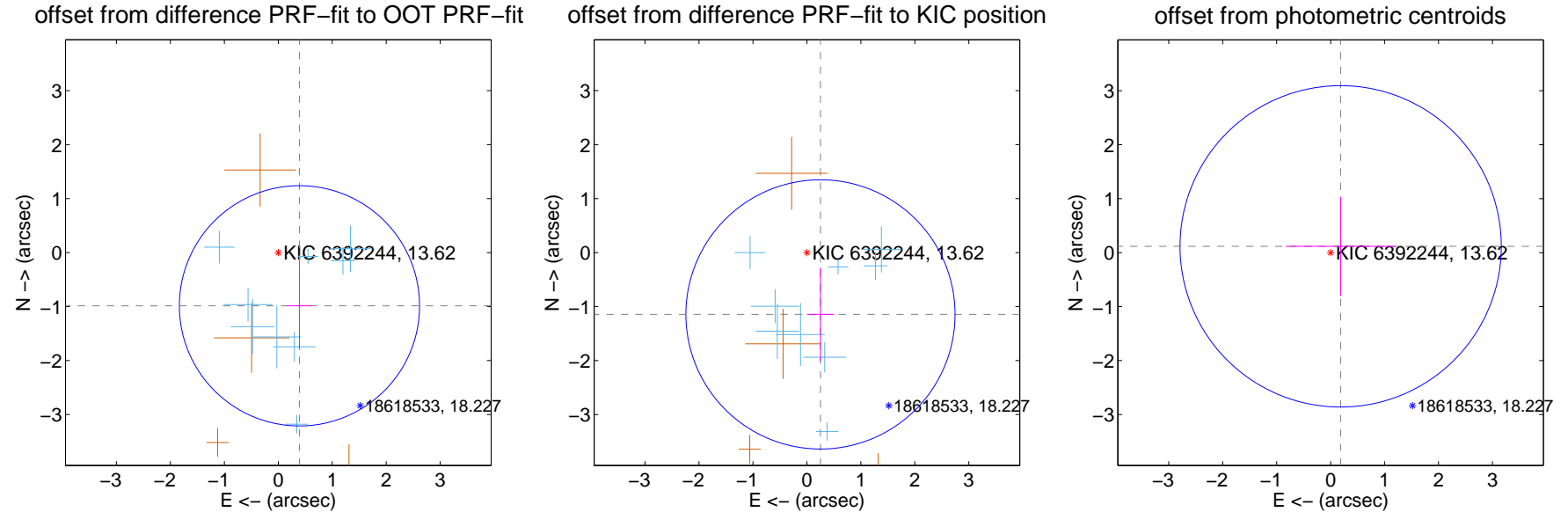
DV Centroid Data

Supplemental centroid analysis for 006392244-01. Kepler magnitude: 13.62. Transit SNR 8.68

There are 9 quarters with good PRF difference image offsets

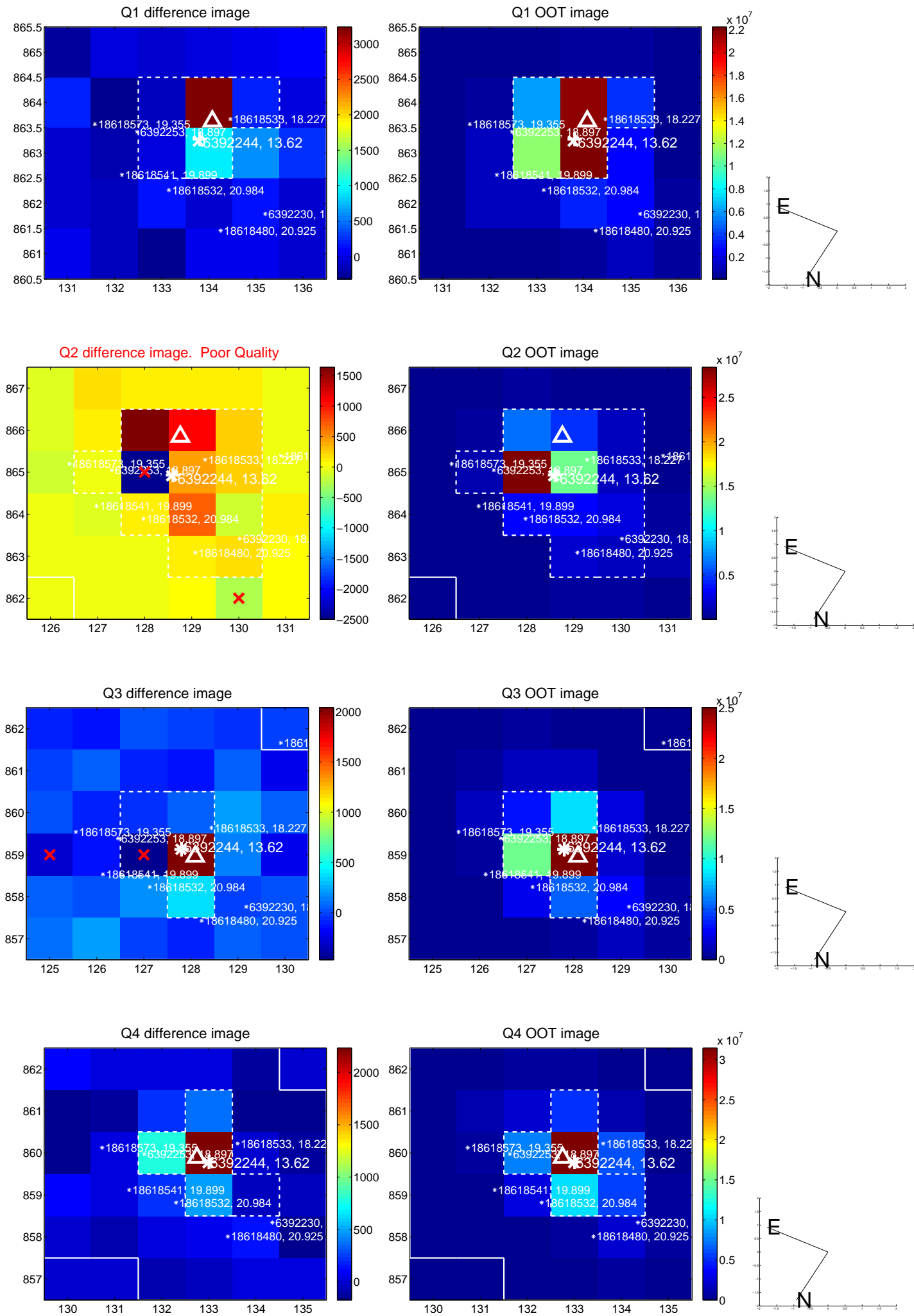
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.061 ± 0.742	1.43	-0.392 ± 0.232	-0.986 ± 0.814
PRF-fit source offset from KIC position	1.173 ± 0.831	1.41	-0.251 ± 0.251	-1.146 ± 0.869
photometric centroid source offset	0.22 ± 0.99	0.22	-0.19 ± 1.02	0.12 ± 0.92

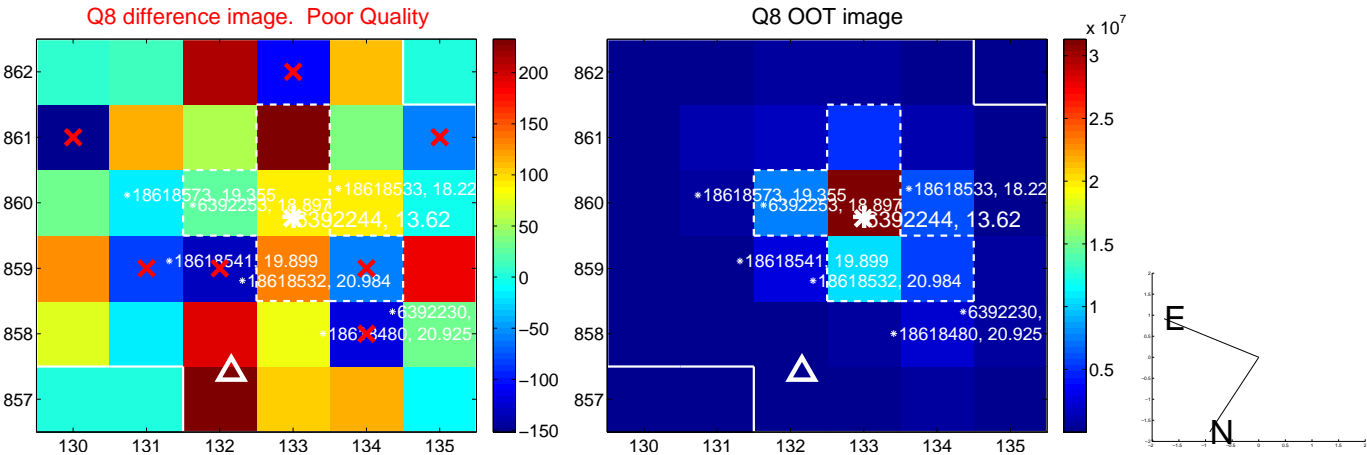
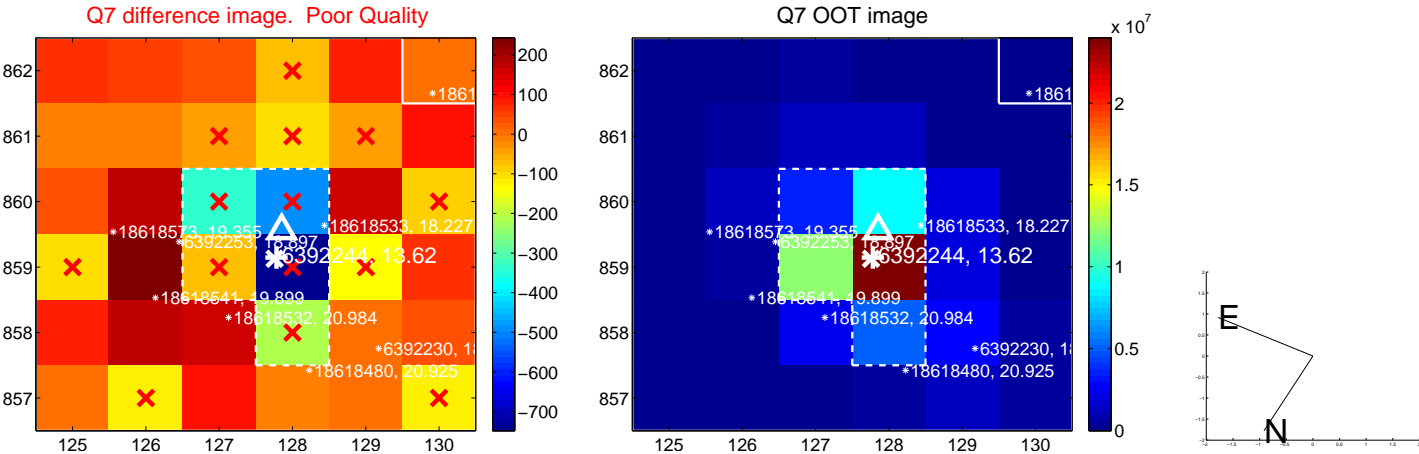
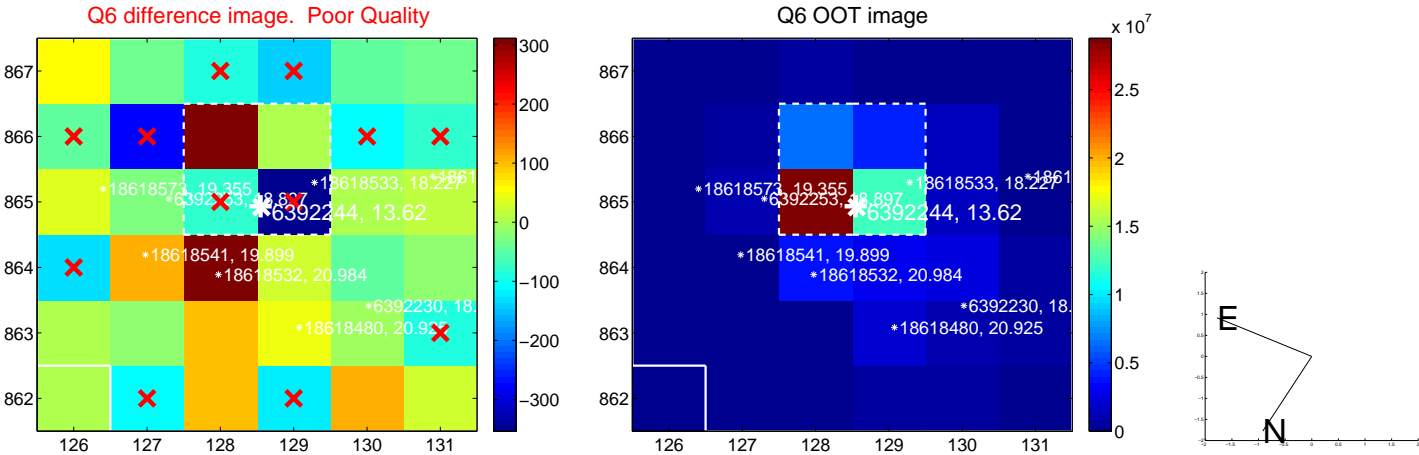
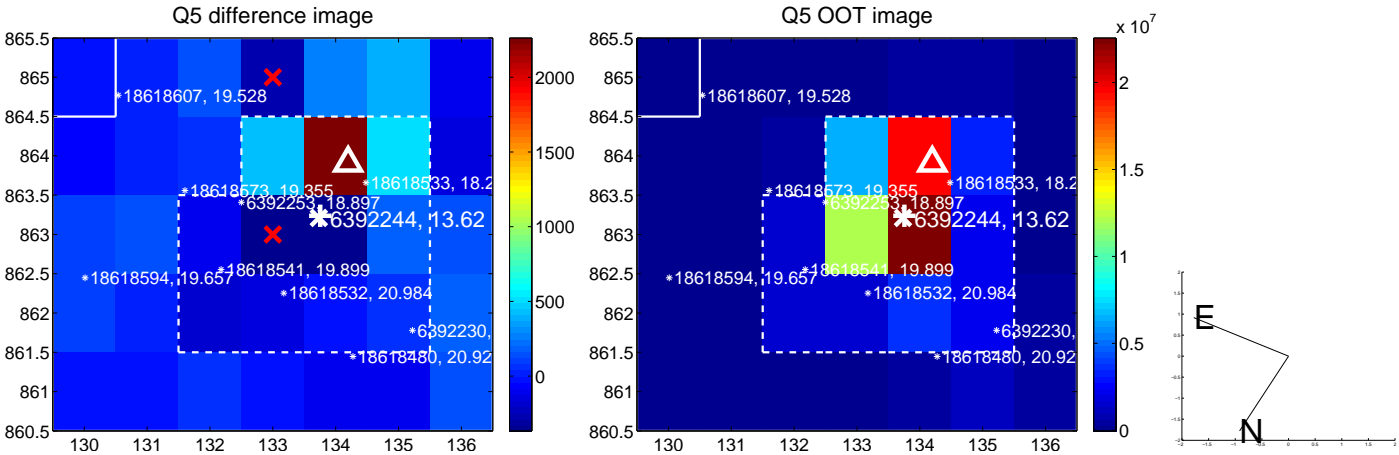


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

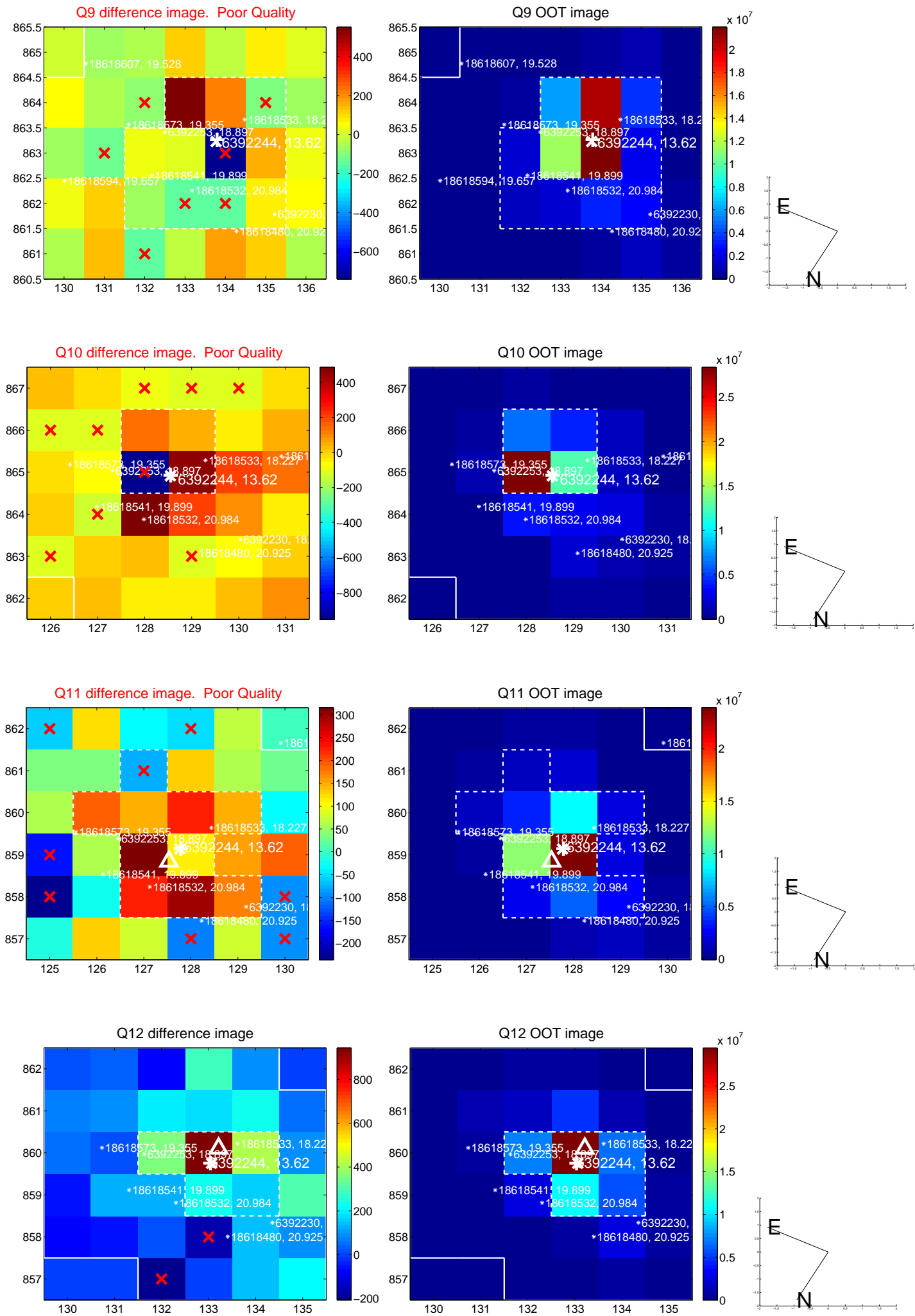
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



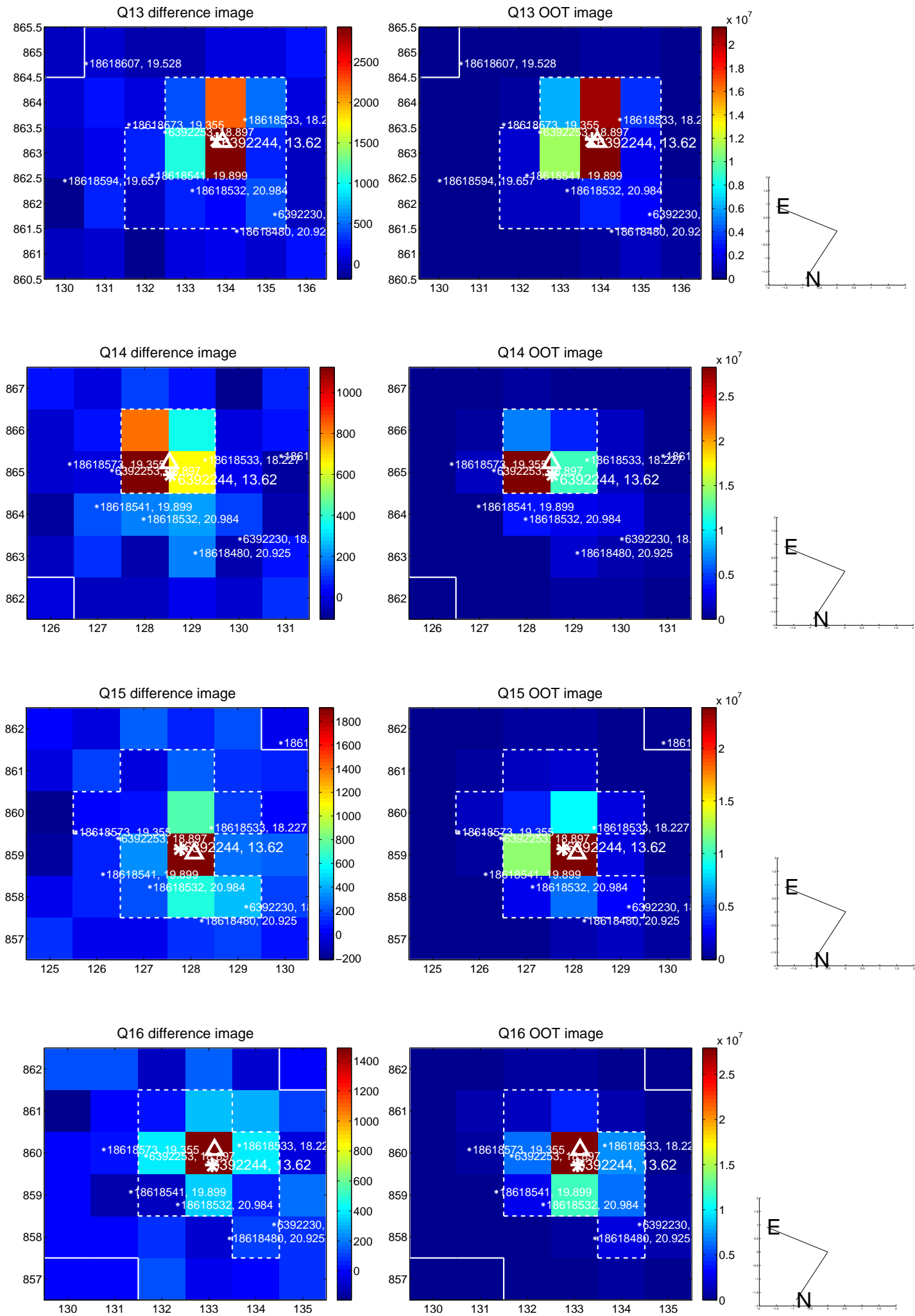
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



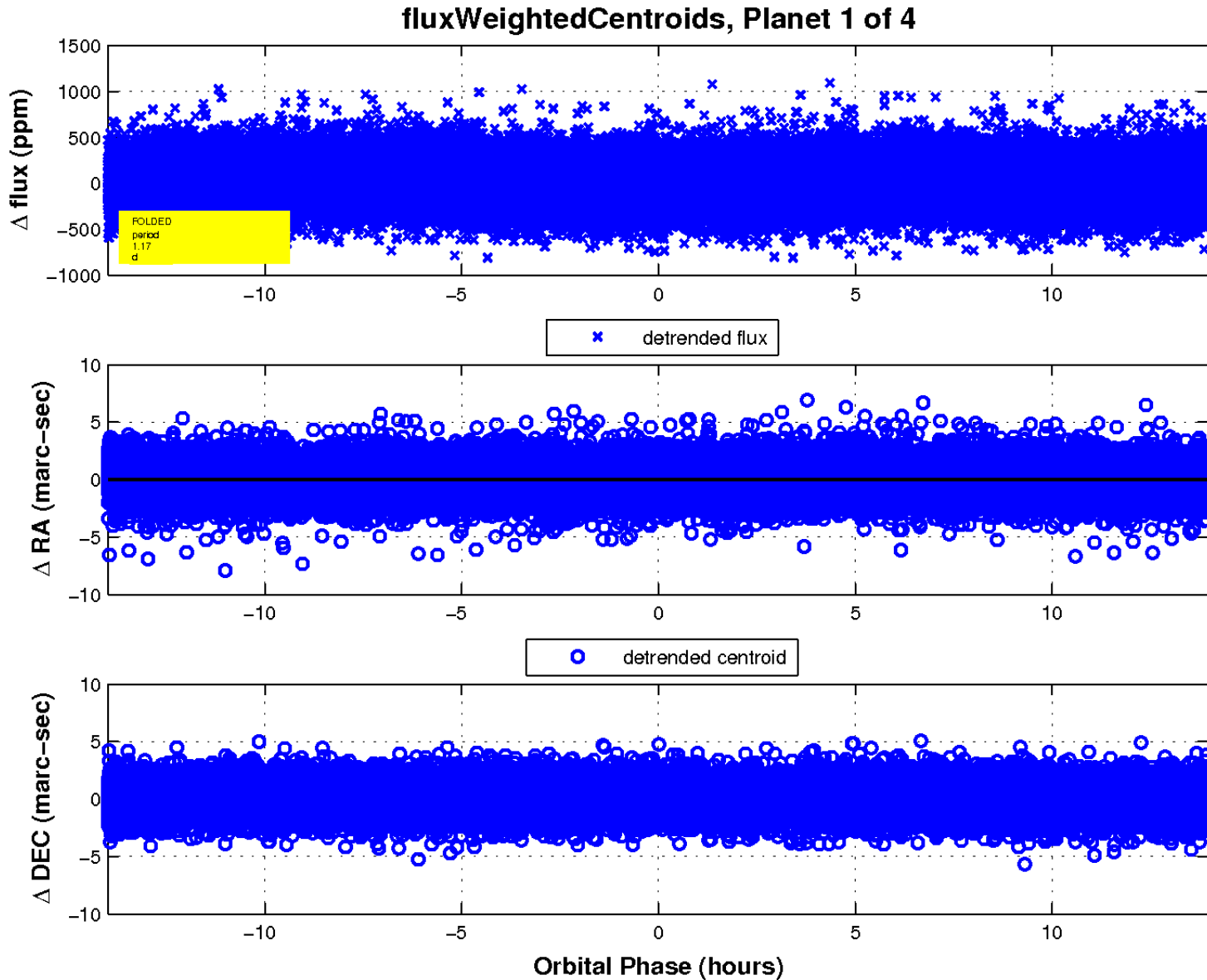
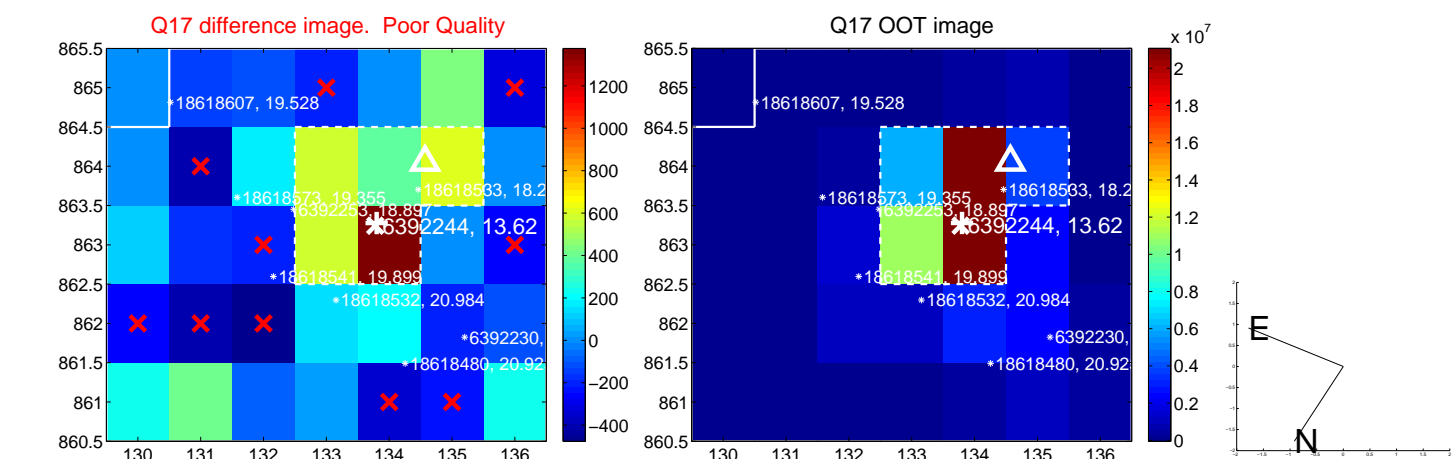
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

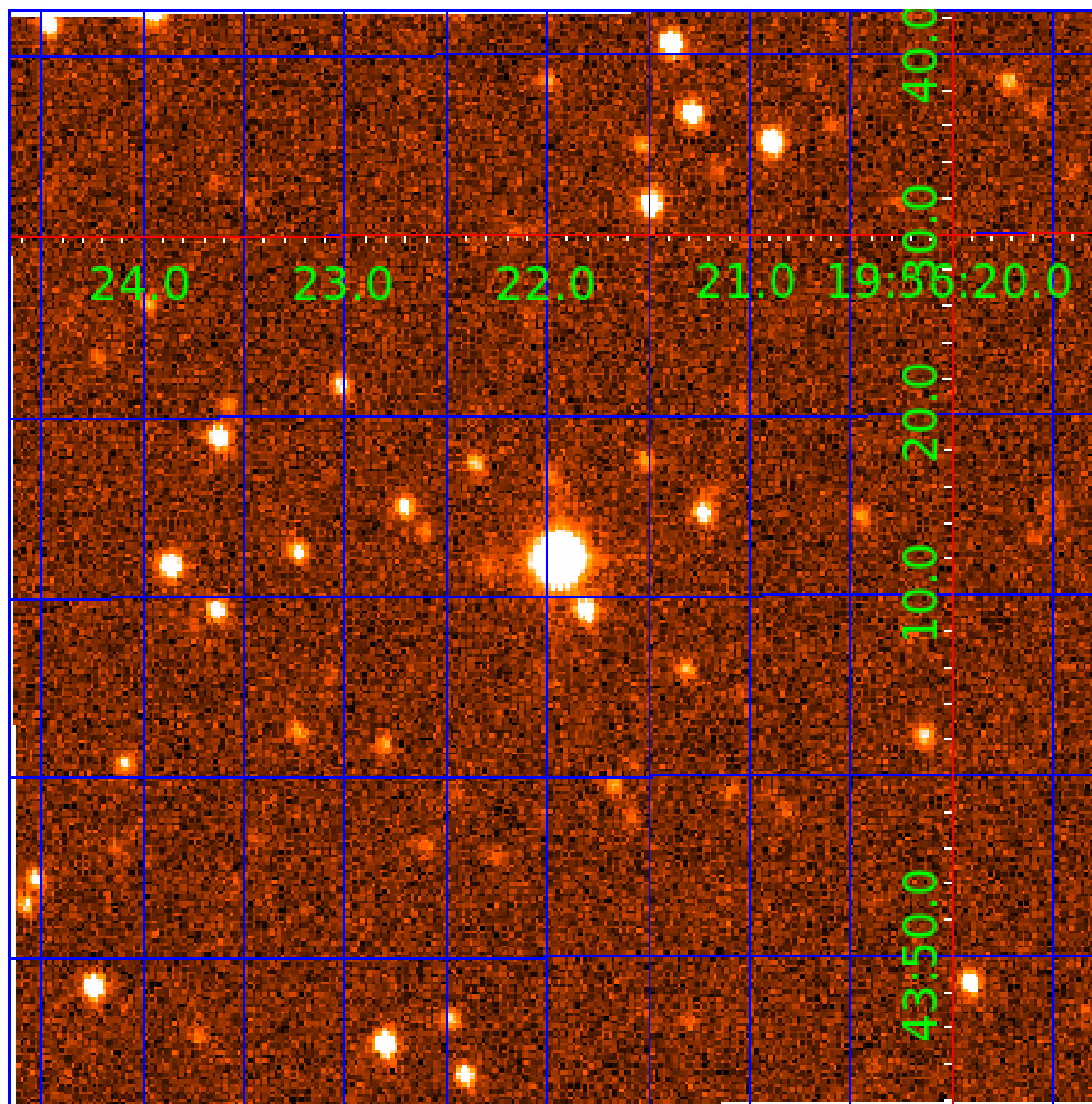


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006392244

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})
006392244-01	OBS	No	1.165585	131.786018	21.8	7.674	7.5	8.7	1.18	6579	0.58	4879.93
006392244-02	OBS	No	35.458998	136.215257	174.3	7.441	9.5	8.8	1.18	6579	1.70	51.38
006392244-04	OBS	No	68.021218	140.907081	346.3	2.178	8.1	8.3	1.18	6579	2.38	21.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006392244-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
006392244-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006392244-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

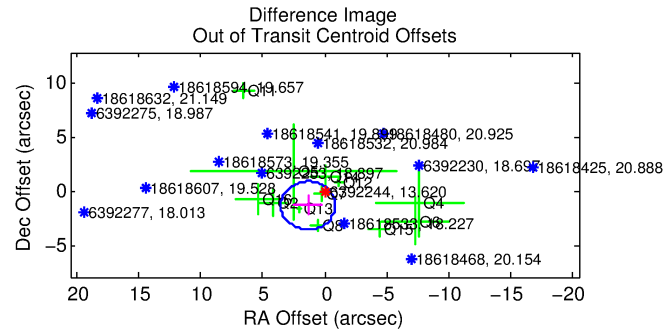
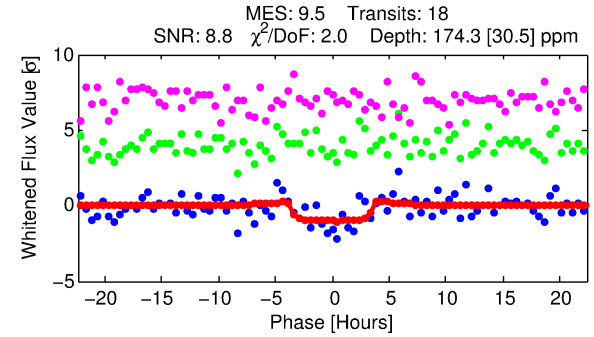
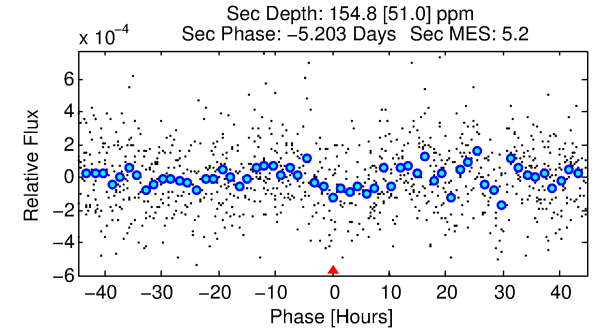
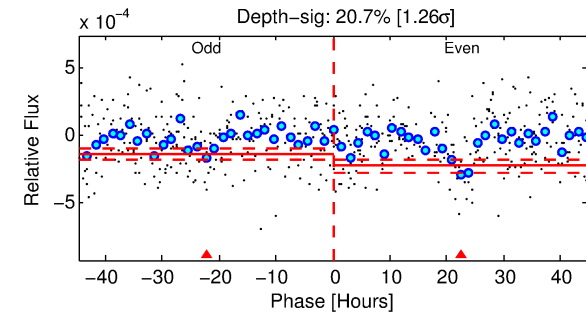
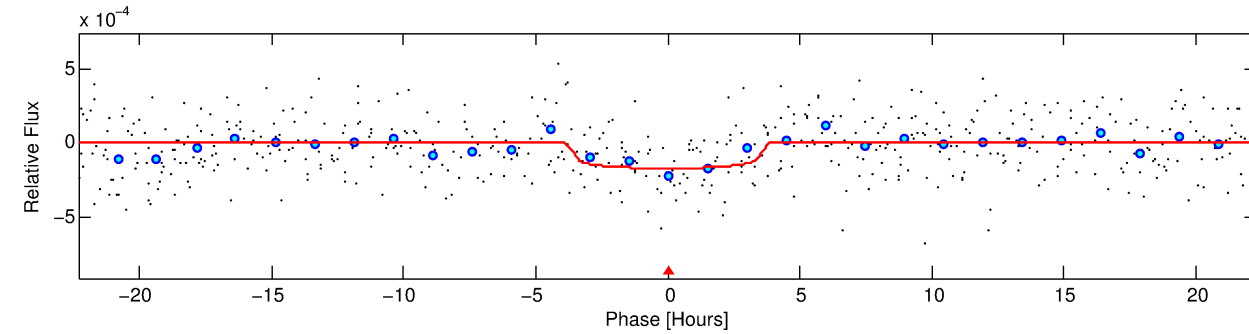
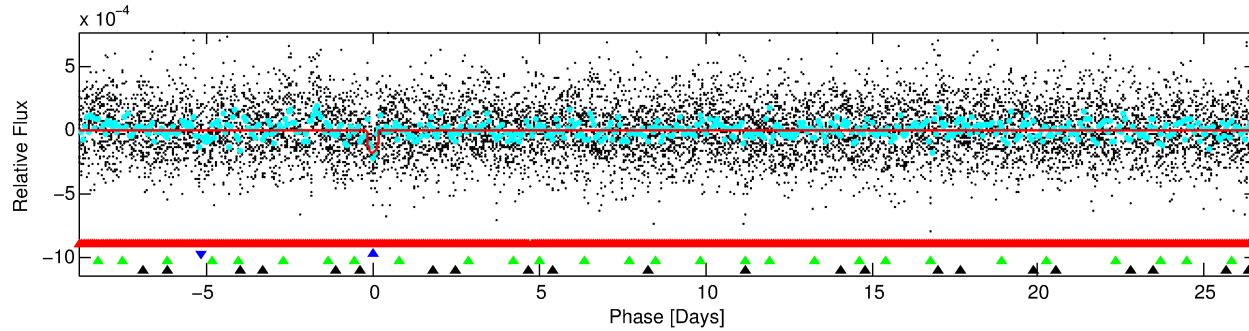
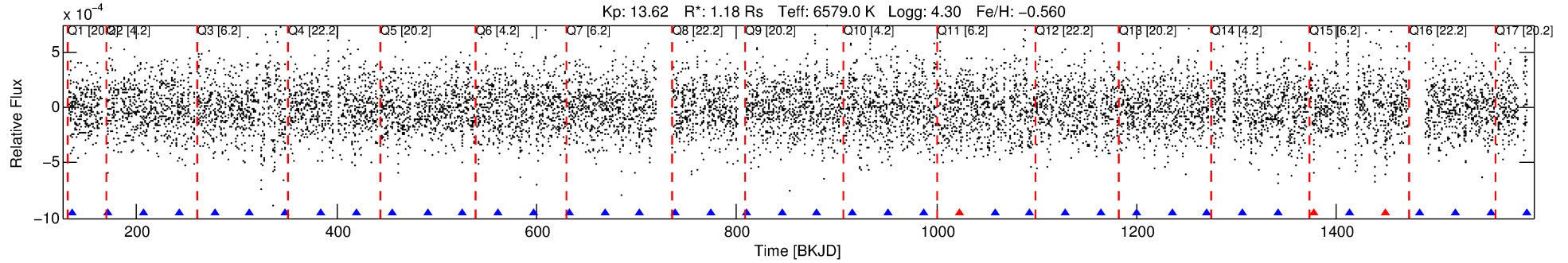
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006392244-02

No Significant Match Found

DV One-Page Summary

KIC: 6392244 Candidate: 2 of 4 Period: 35.459 d



DV Fit Results:

Period = 35.45900 [0.00082] d
Epoch = 136.2153 [0.0194] BKJD
Rp/R* = 0.0132 [0.0100]
a/R* = 23.98 [102.93]
b = 0.77 [2.29]
Seff = 51.39 [17.73]
Teff = 683 [59] K
Rp = 1.70 [1.37] Re
a = 0.2125 [0.0478] AU
Ag = 1338.57 [2126.19] [0.63 σ]
Teffp = 6385 [2493] K [2.29 σ]

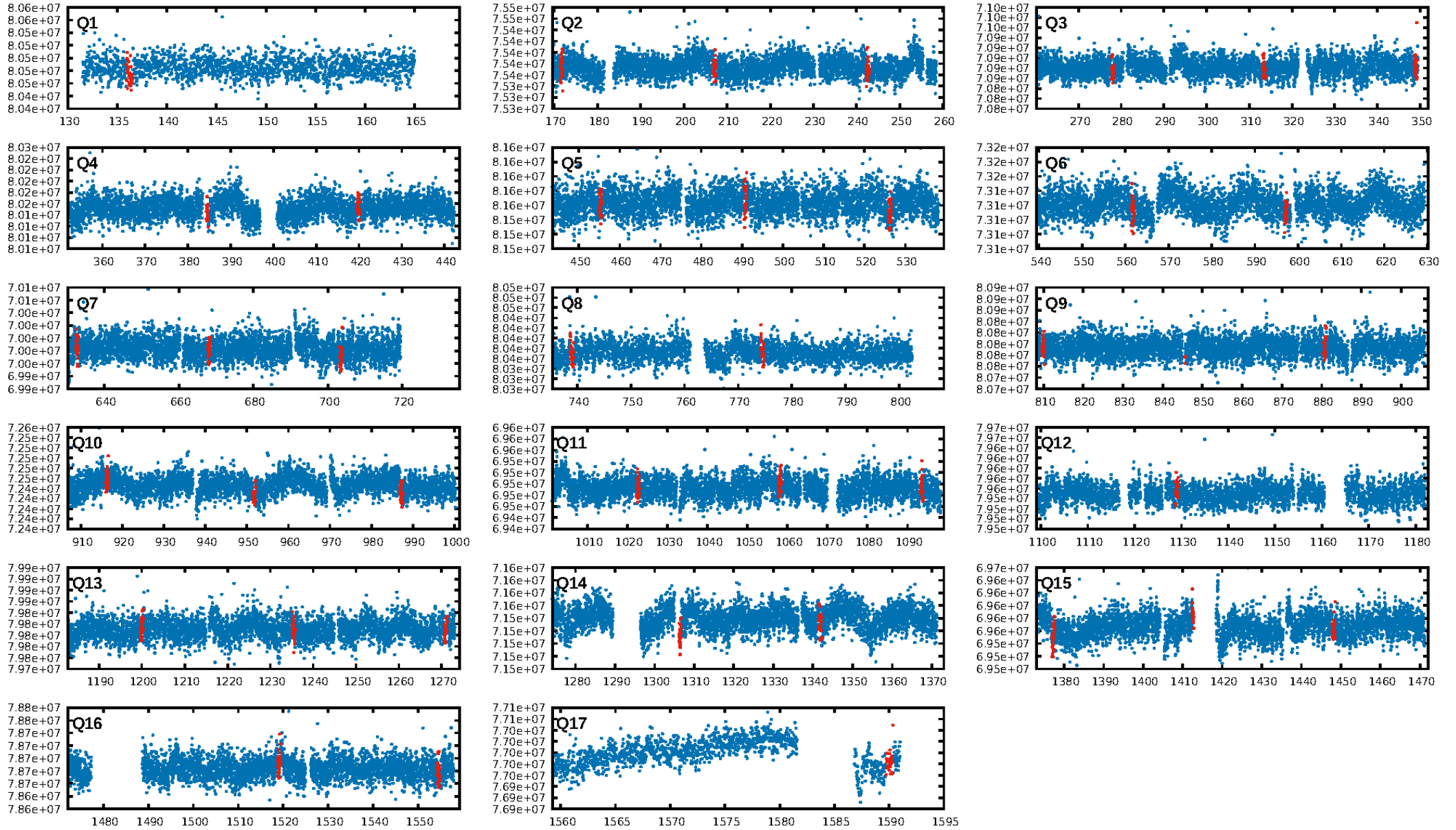
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [77.00 σ]
LongPeriod-sig: 100.0% [43.88 σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.21e-13
RollingBand-fgt: 0.83 [15/18]
GhostDiagnostic-chr: -0.6797
Centroid-sig: N/A
Centroid-so: 1.064 arcsec [1.51 σ]
OotOffset-rm: 1.825 arcsec [2.50 σ]
KicOffset-rm: 1.897 arcsec [2.75 σ]
OotOffset-st: 3/3/4/2 [12]
KicOffset-st: 3/3/4/2 [12]
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DiffImageOverlap-fno: 0.00 [0/17]

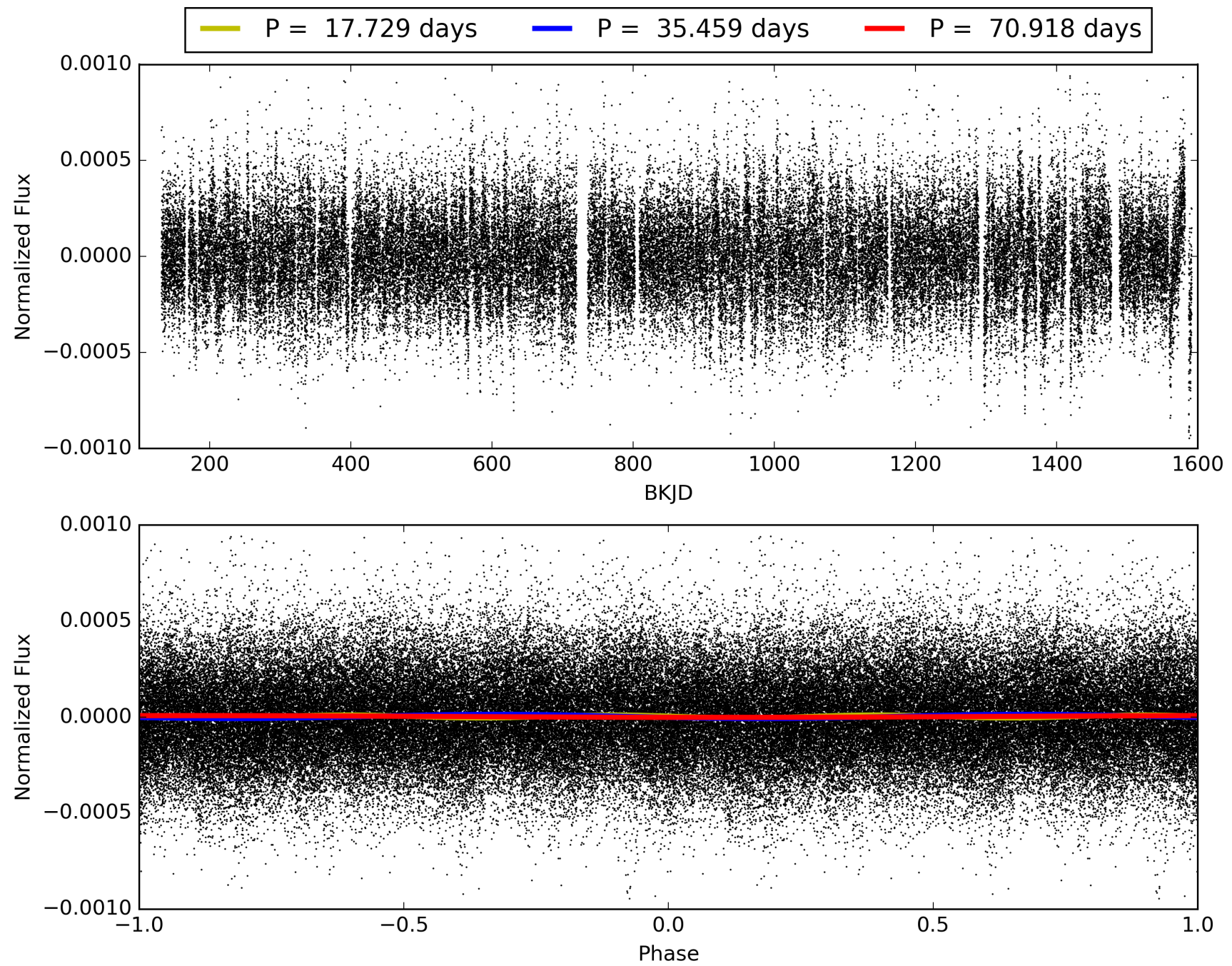
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 12:03:18 Z

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

TCE 006392244-02, PDC Light Curves

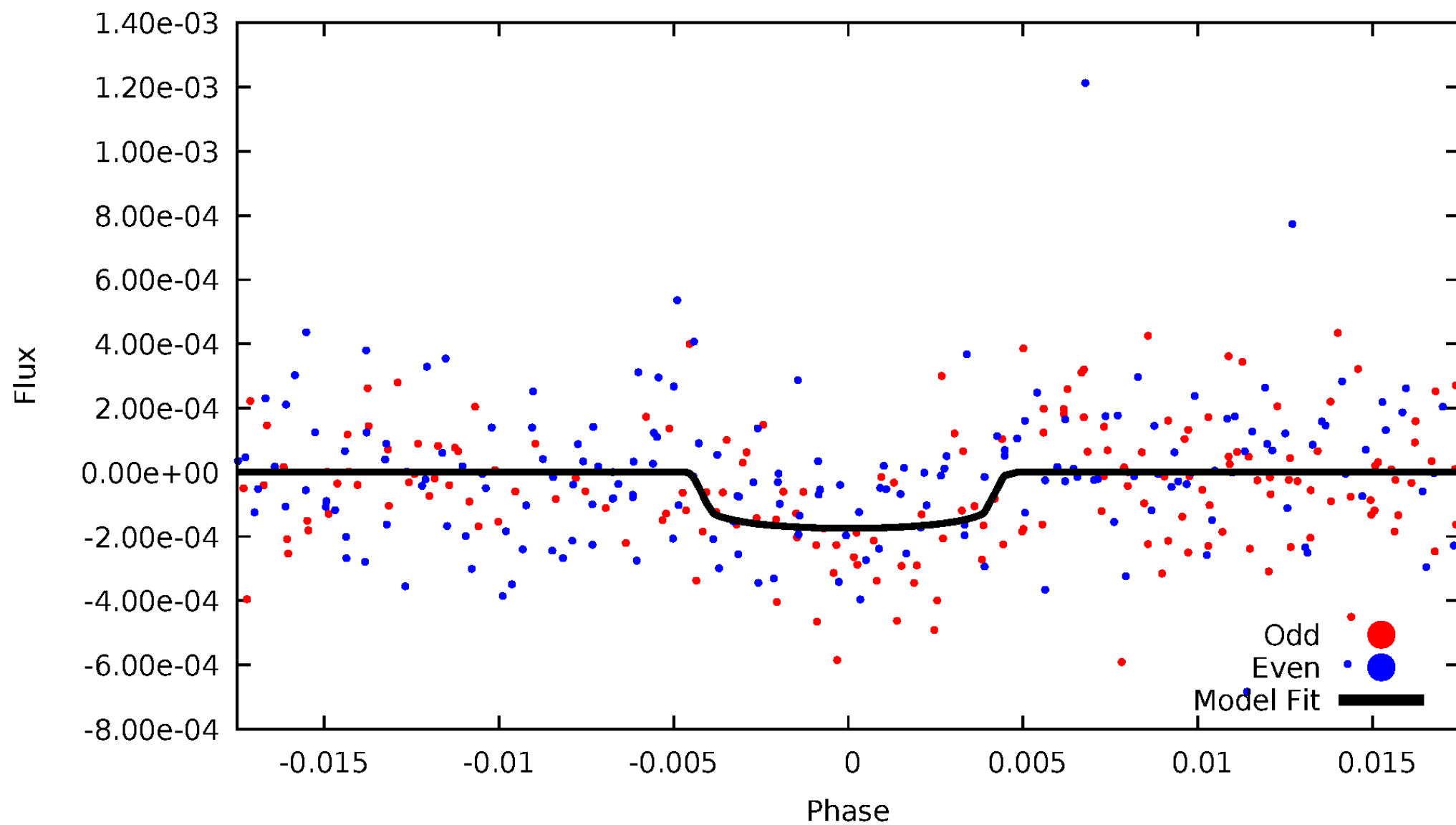


TCE 006392244-02



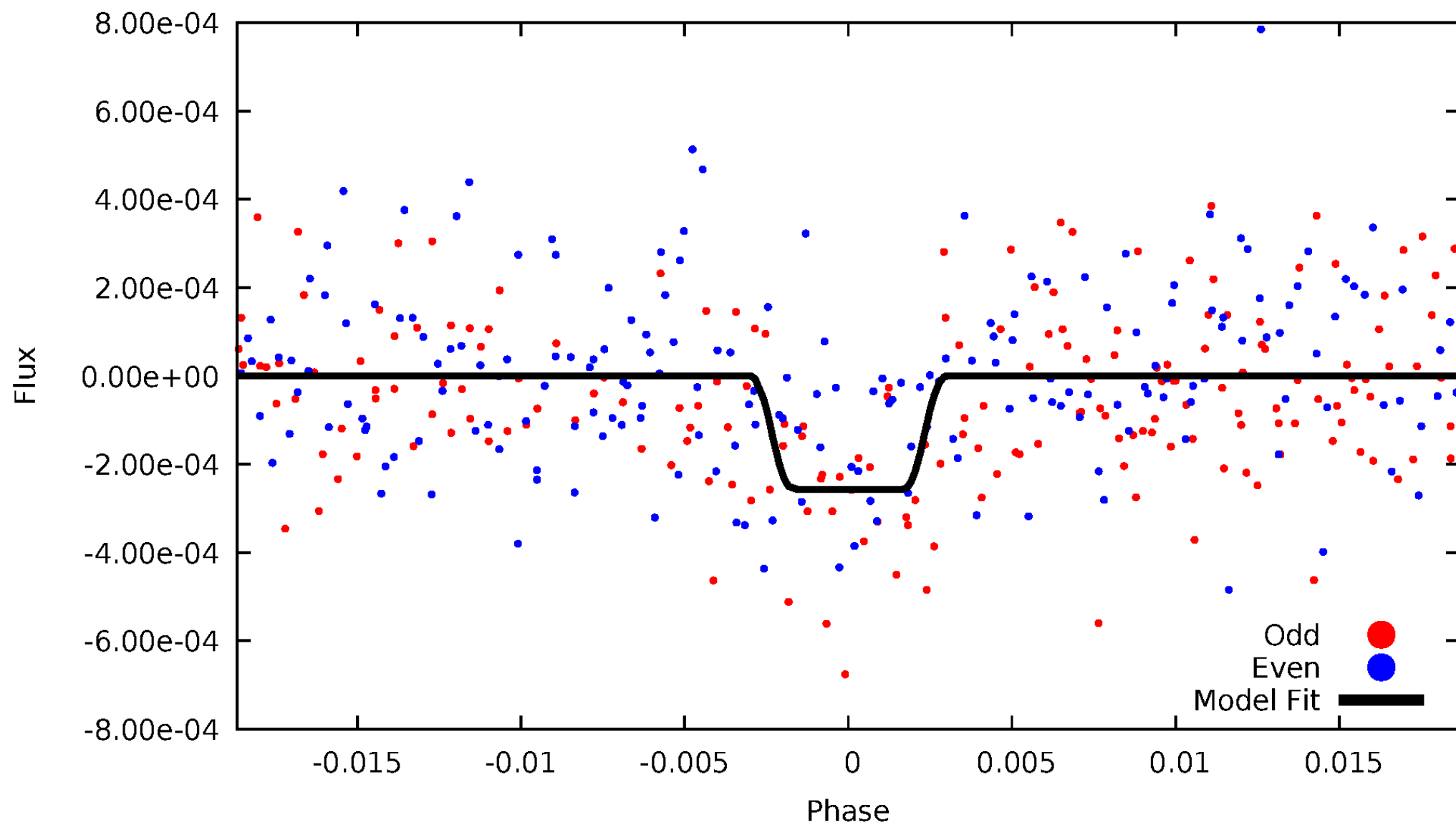
DV Odd/Even

TCE 006392244-02



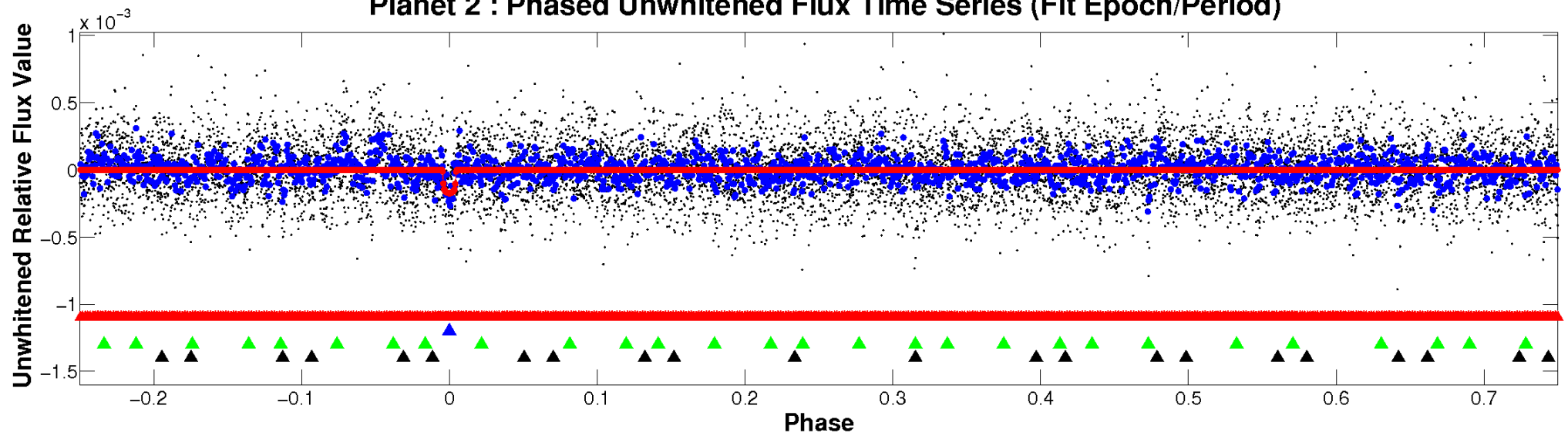
ALT Odd/Even

TCE 006392244-02

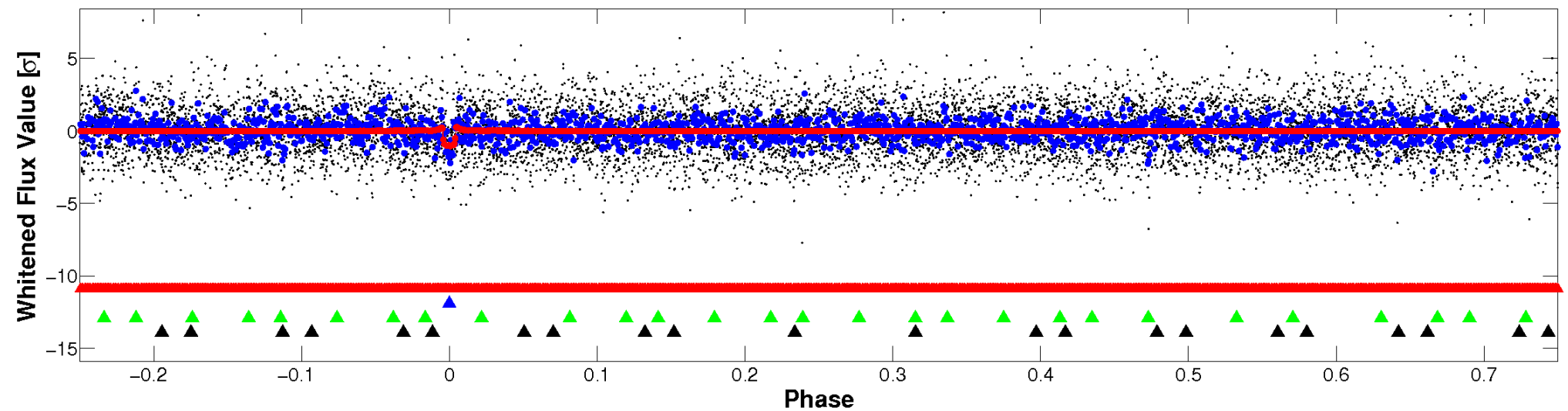


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

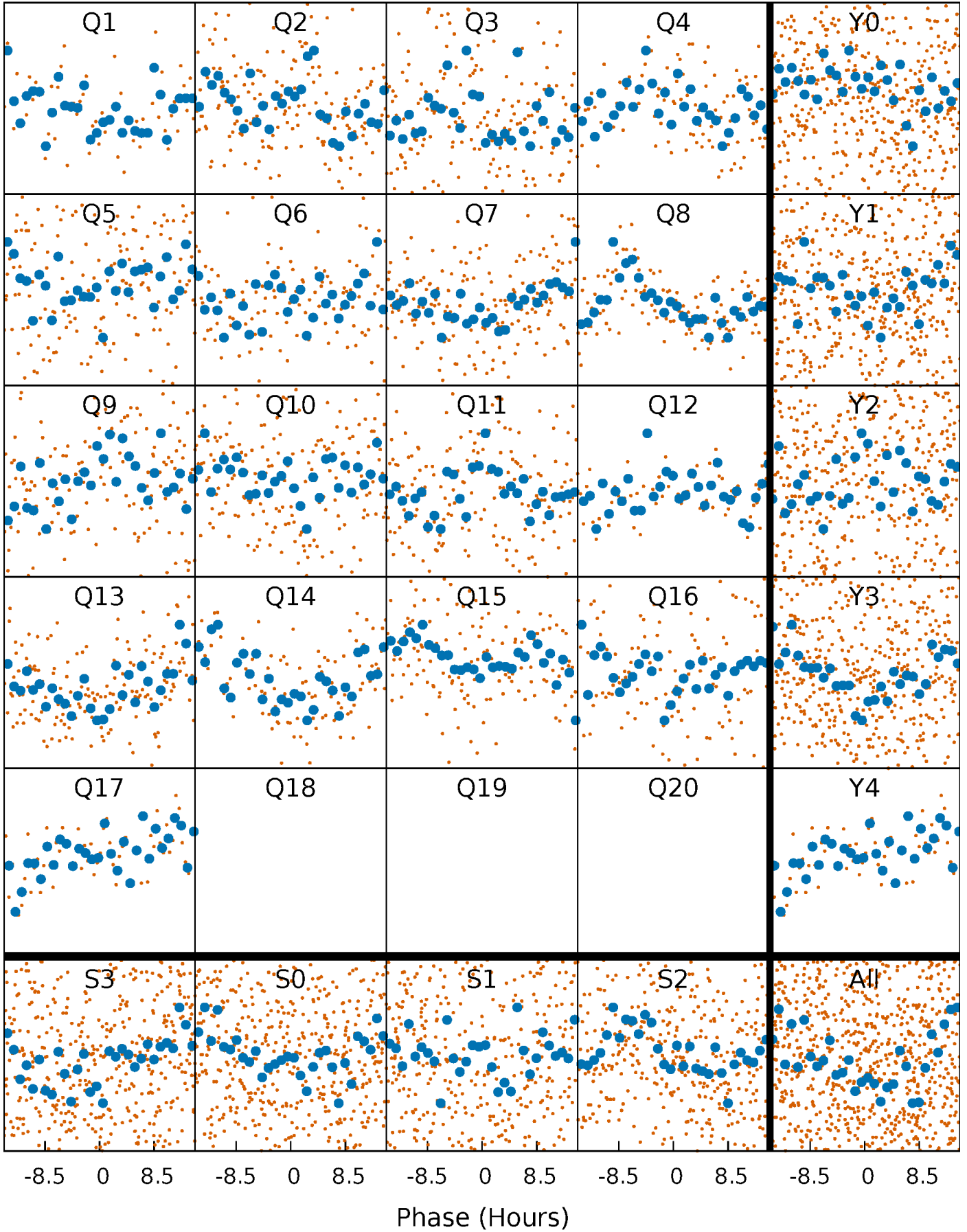


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



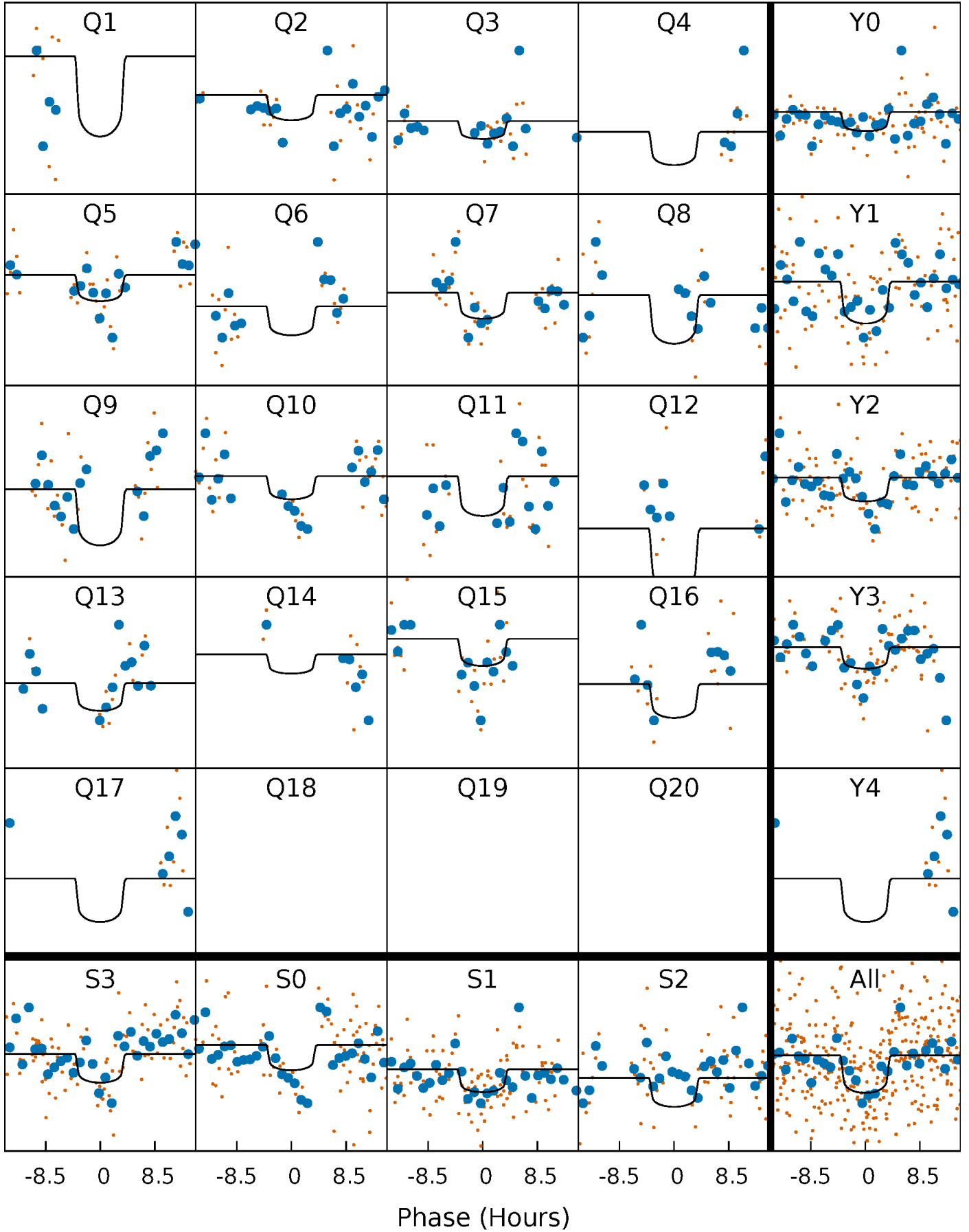
PDC Quarter-Phased Transit Curves

TCE 006392244-02 P= 35.458998 Days $T_0=136.215257$ (BKJD)



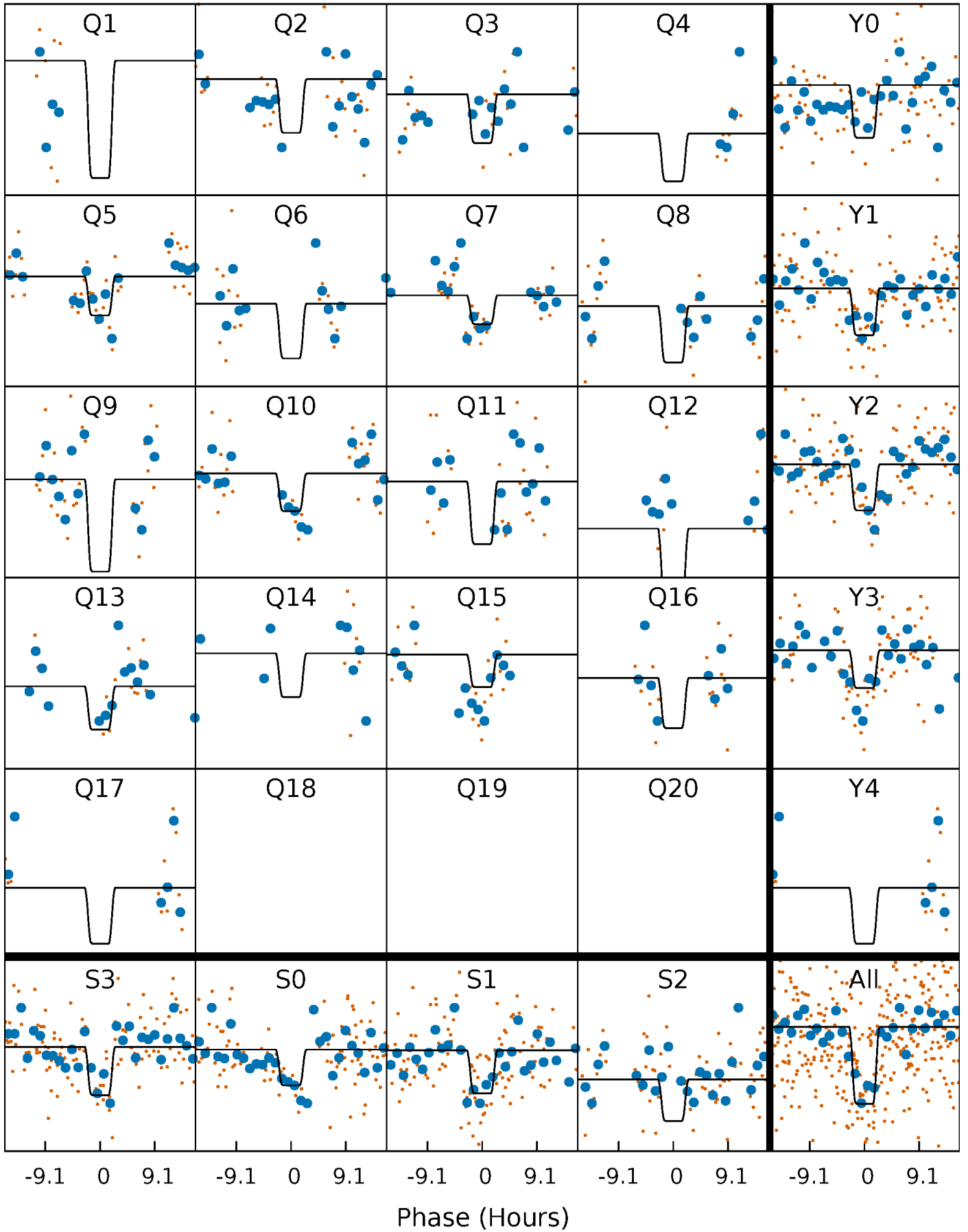
DV Quarter-Phased Transit Curves

TCE 006392244-02 P= 35.458998 Days $T_0=136.215257$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

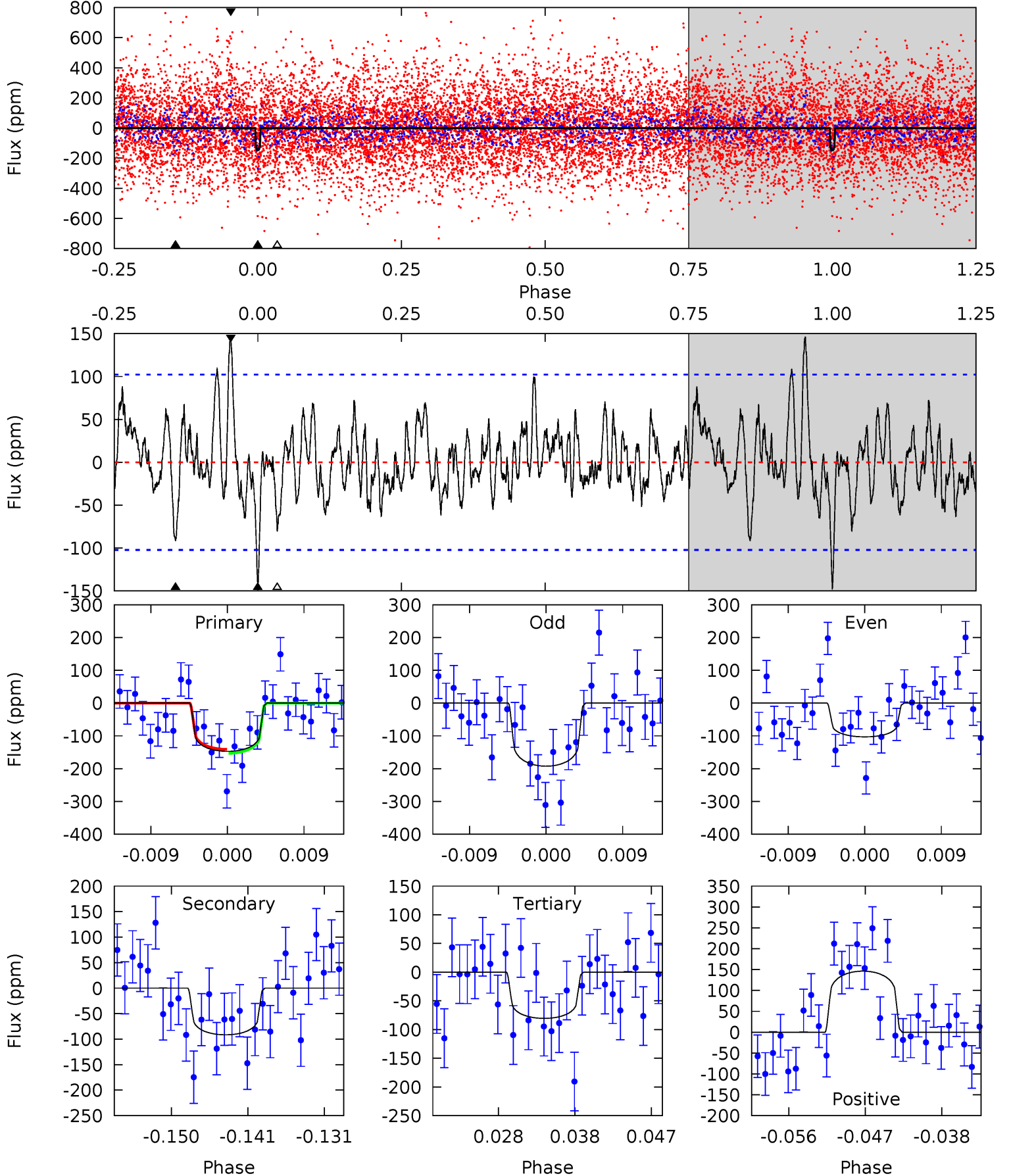
TCE 006392244-02 P= 35.458567 Days $T_0=136.222342$ (BKJD)



DV Model-Shift Uniqueness Test

006392244-02, P = 35.458998 Days, E = 100.756259 Days

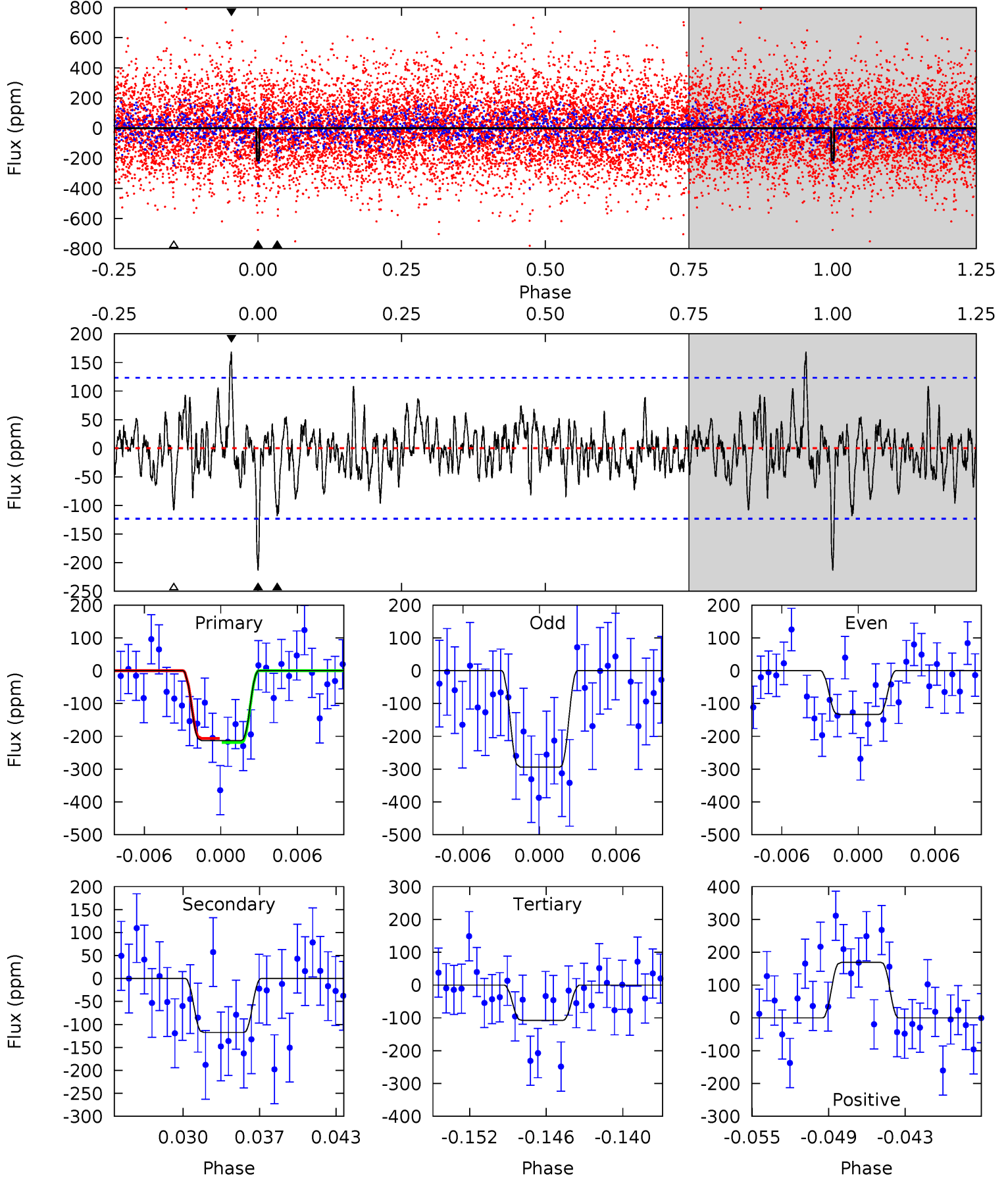
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.26	4.51	3.97	7.21	5.04	2.60	1.65	3.29	0.05	0.55	-2.70	2.21	1.01	0.50	0.30



Alt Model-Shift Uniqueness Test

006392244-02, P = 35.458567 Days, E = 100.763775 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.85	4.89	4.49	7.02	5.12	2.74	1.44	4.36	1.83	0.39	-2.13	3.34	1.07	0.44	0.26



Stellar Parameters For KIC 006392244

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6579^{+177}_{-217}	$4.305^{+0.139}_{-0.170}$	$-0.560^{+0.300}_{-0.300}$	$1.176^{+0.323}_{-0.189}$	$1.020^{+0.149}_{-0.112}$	$0.882^{+0.591}_{-0.408}$
	+3%/-3%	+3%/-4%	+54%/-54%	+27%/-16%	+15%/-11%	+67%/-46%
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 006392244-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-92 ± 20	$1.91^{+1.32}_{-1.06}$	953^{+64}_{-52}	5275^{+2871}_{-984}	618^{+2514}_{-403}
Alt.	-118 ± 24	$2.20^{+1.26}_{-1.18}$	954^{+65}_{-58}	5306^{+2714}_{-961}	589^{+2249}_{-354}

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

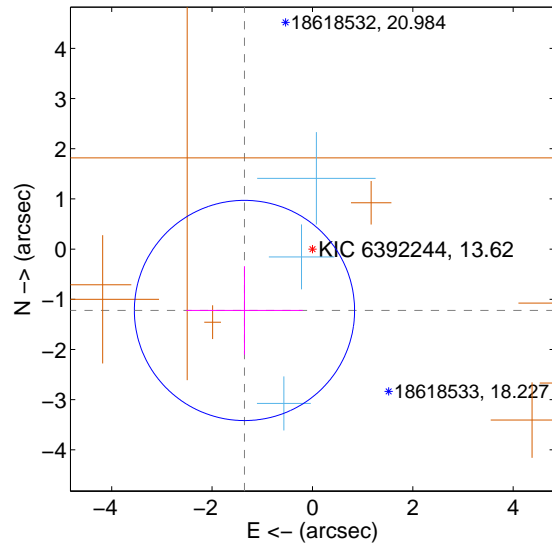
Supplemental centroid analysis for 006392244-02. Kepler magnitude: 13.62. Transit SNR 8.83

There are 3 quarters with good PRF difference image offsets

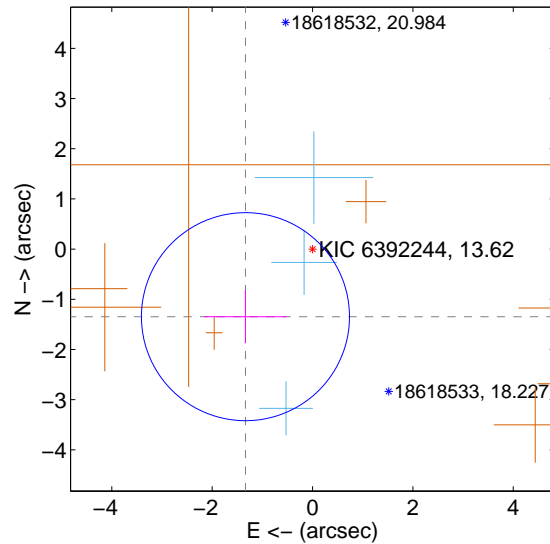
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.825 ± 0.731	2.50	1.354 ± 1.162	-1.223 ± 0.882
PRF-fit source offset from KIC position	1.897 ± 0.691	2.75	1.337 ± 0.822	-1.347 ± 0.531
photometric centroid source offset	1.06 ± 0.70	1.51	0.29 ± 0.76	-1.02 ± 0.70

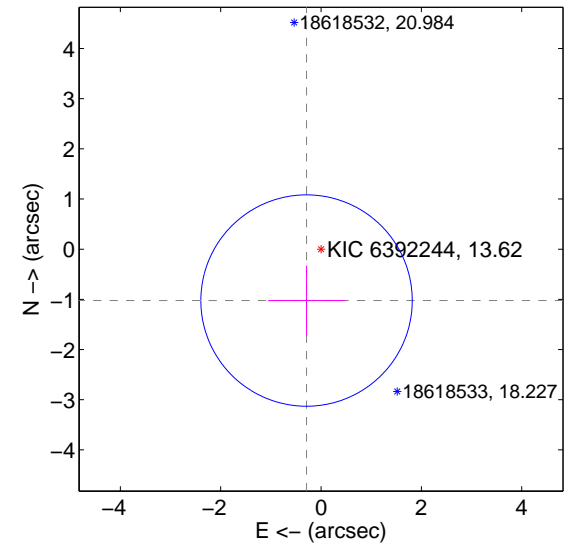
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

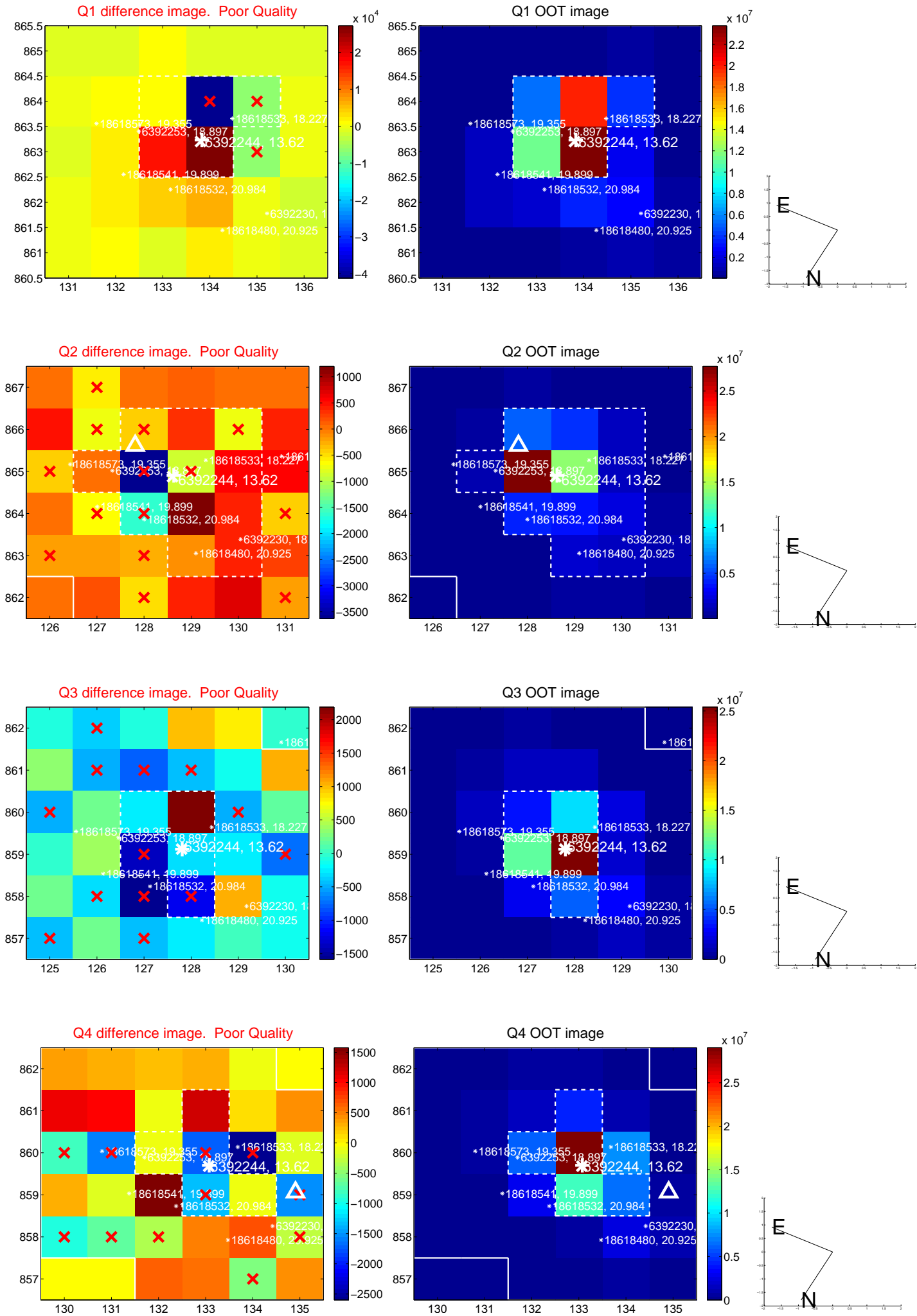


offset from photometric centroids

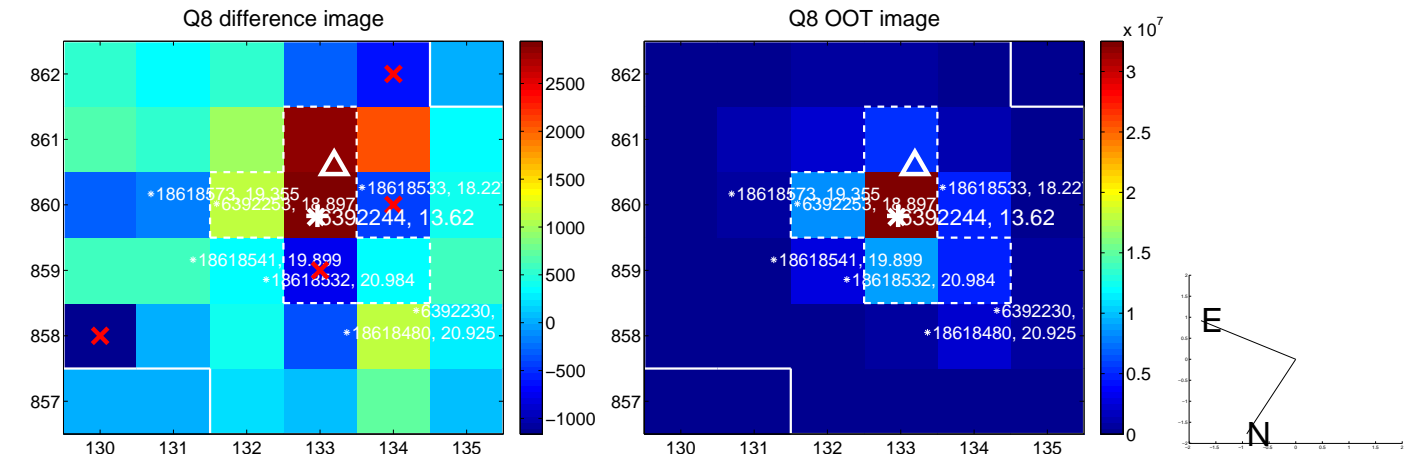
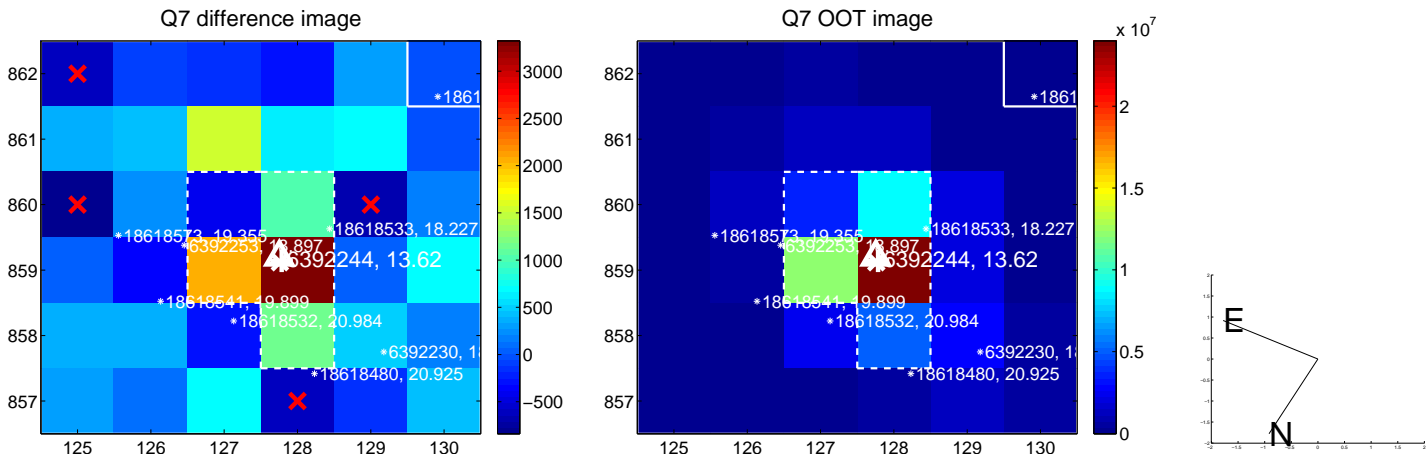
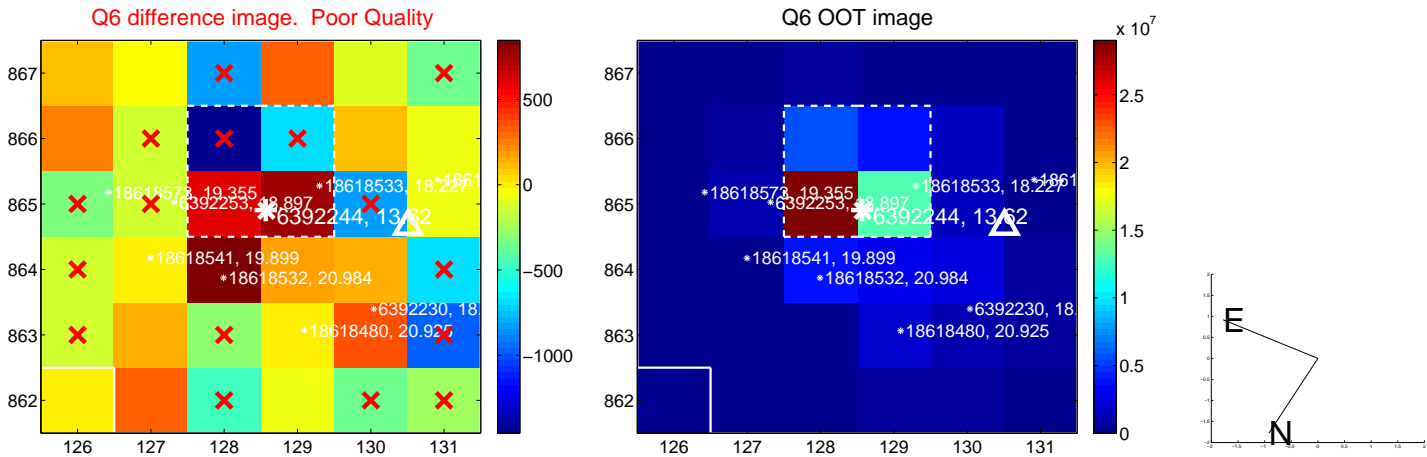
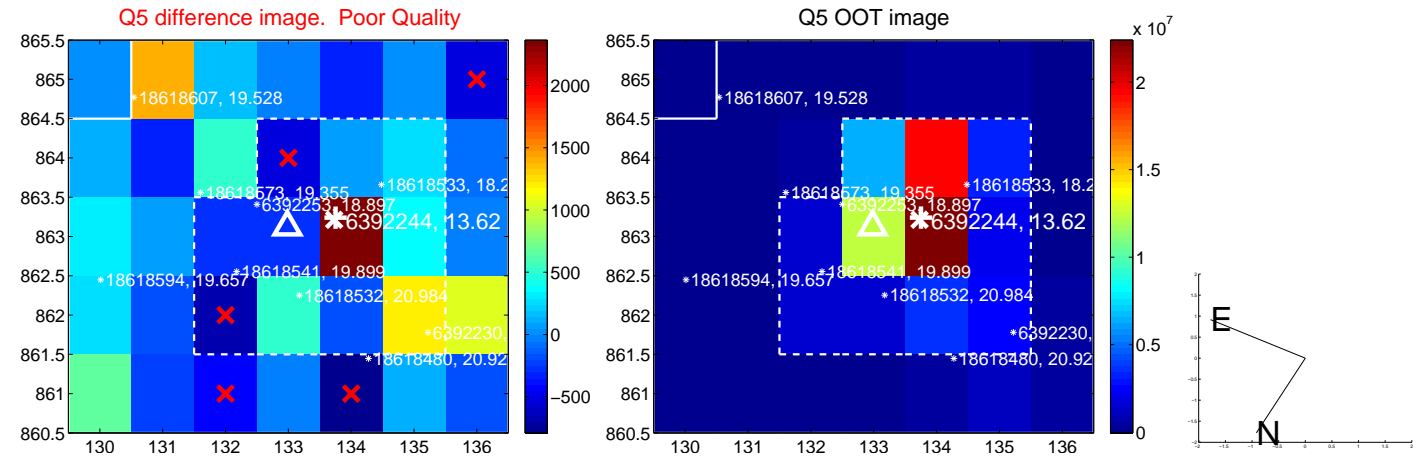


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

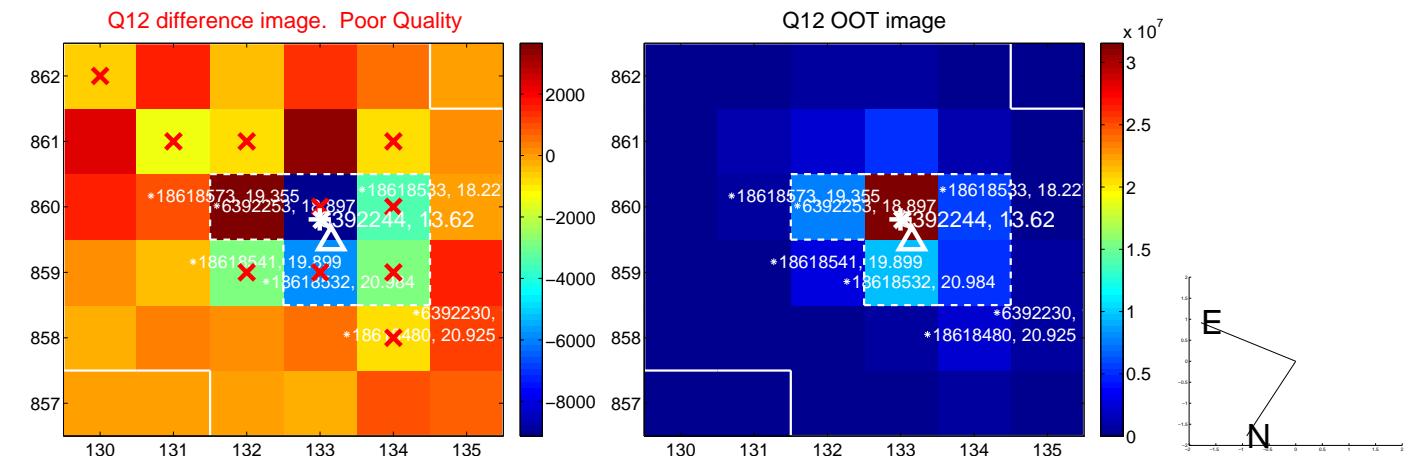
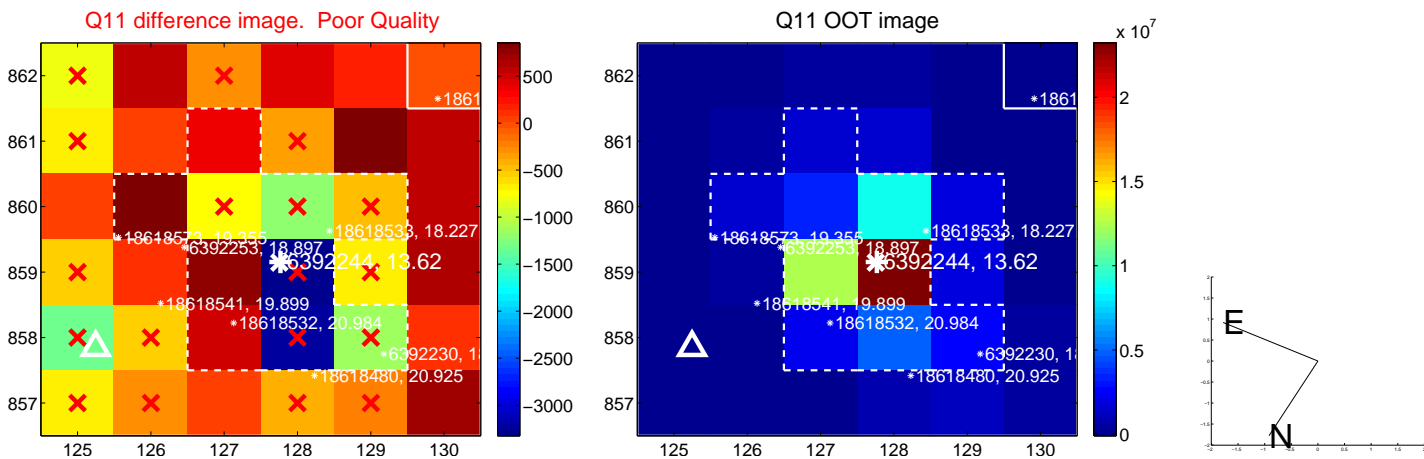
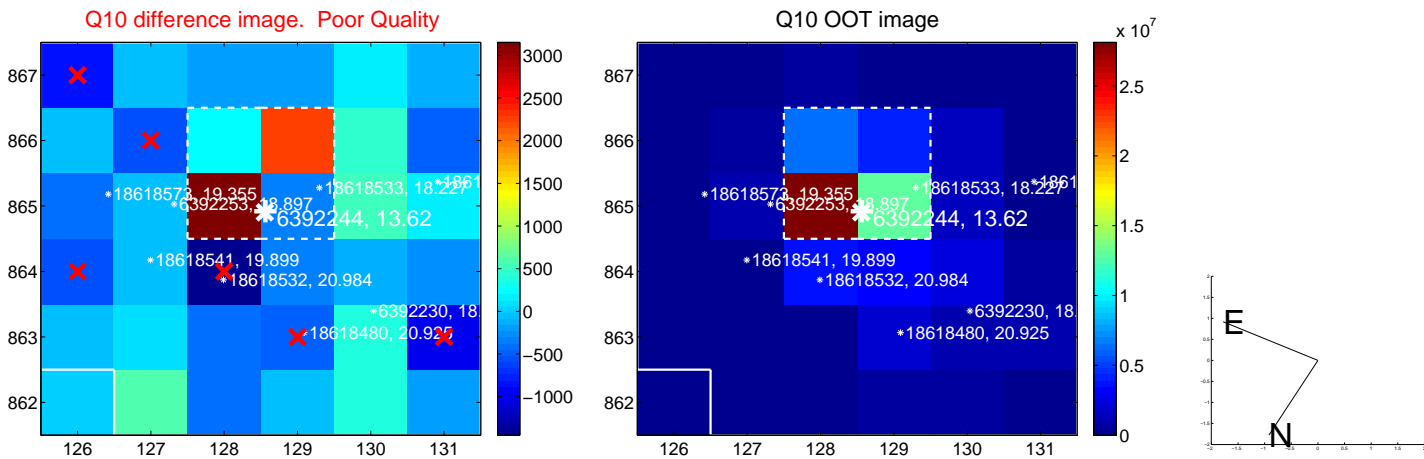
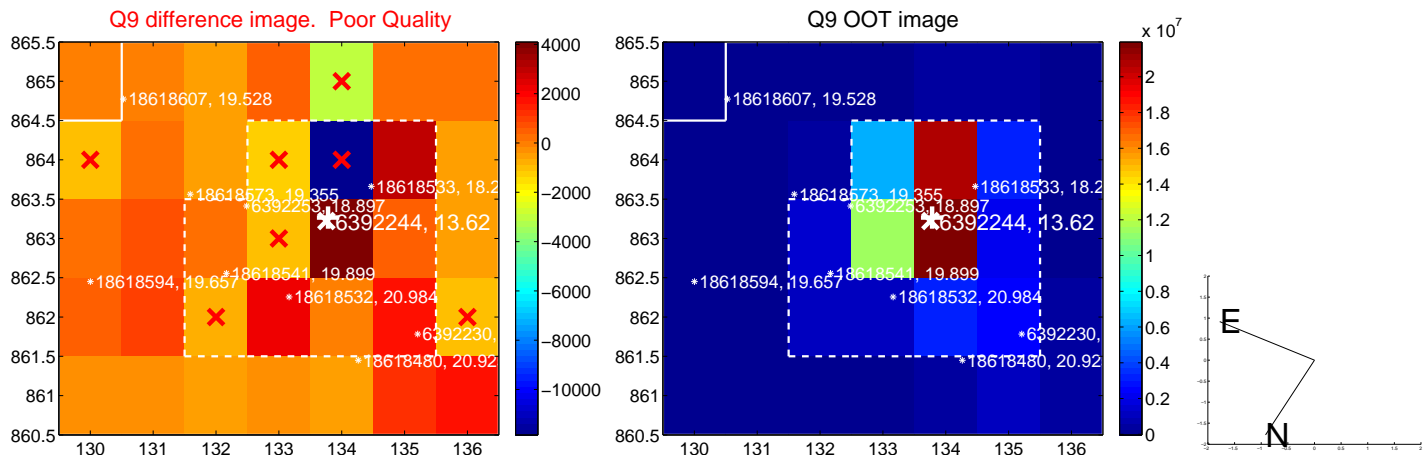
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



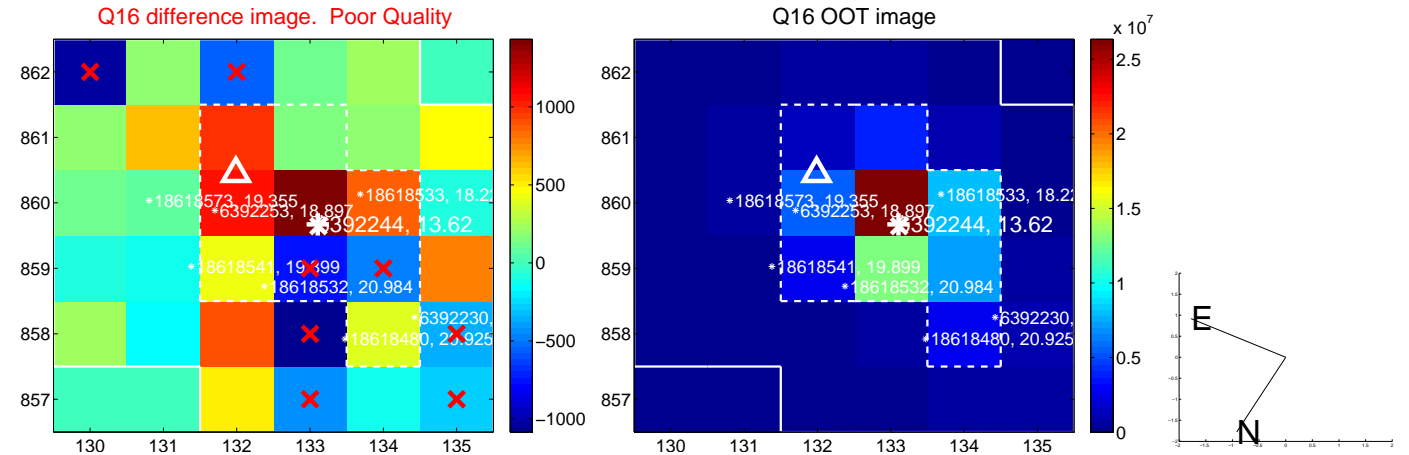
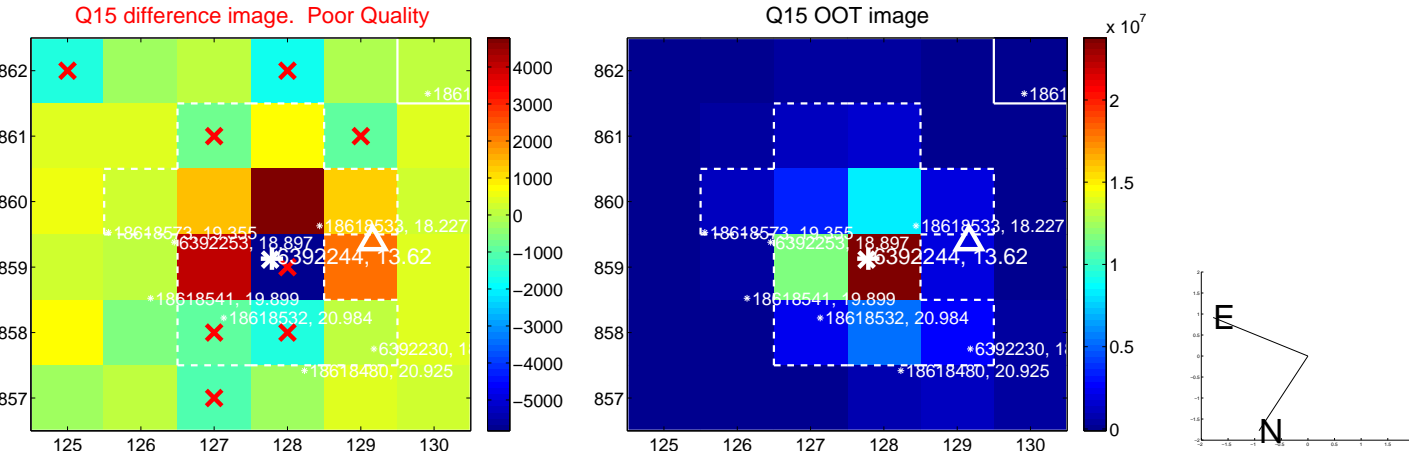
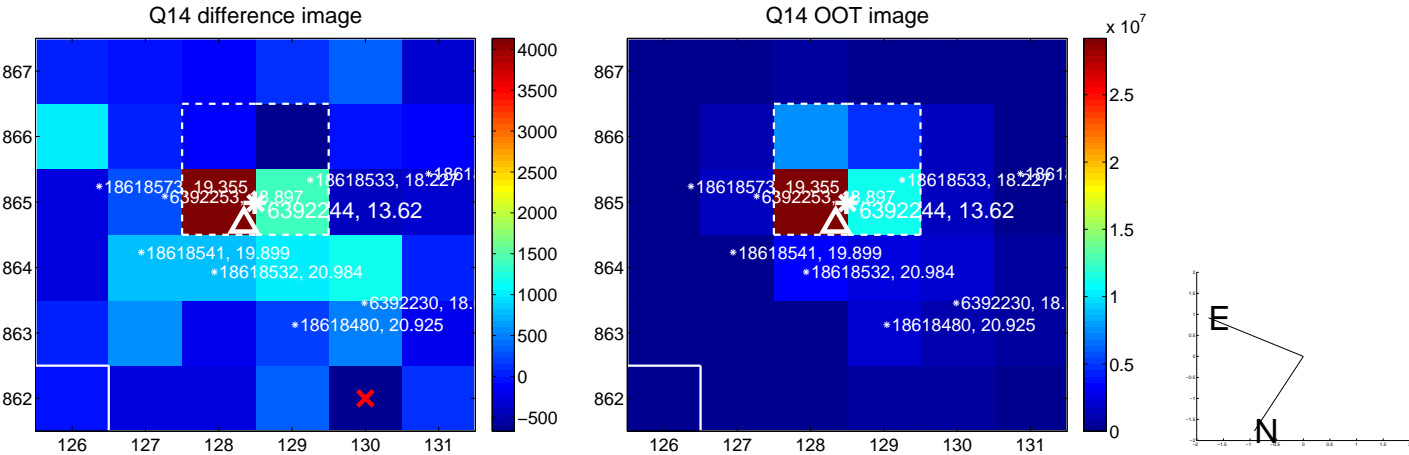
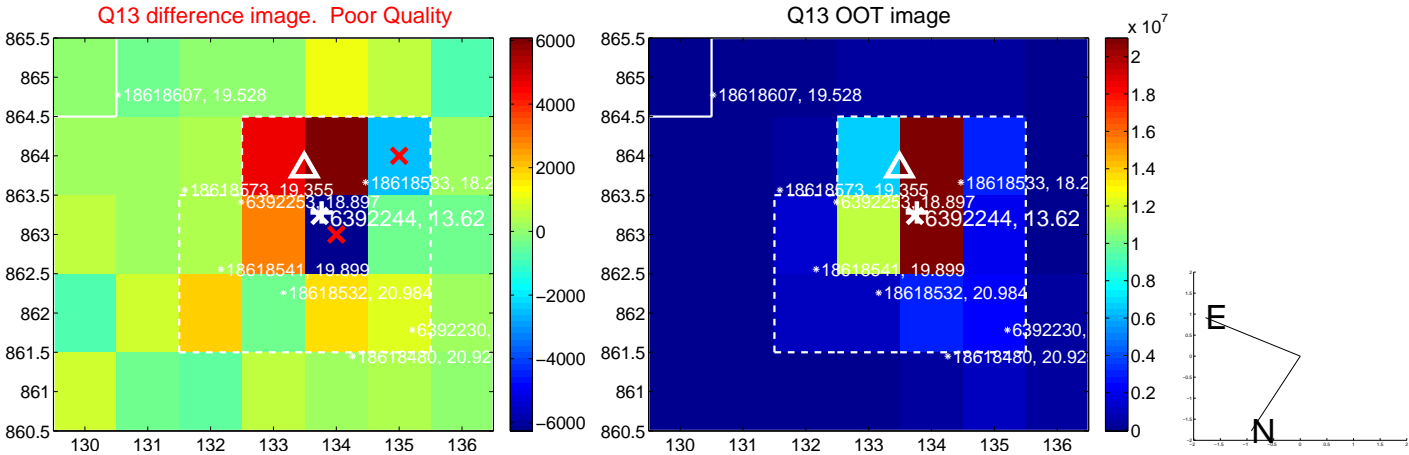
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



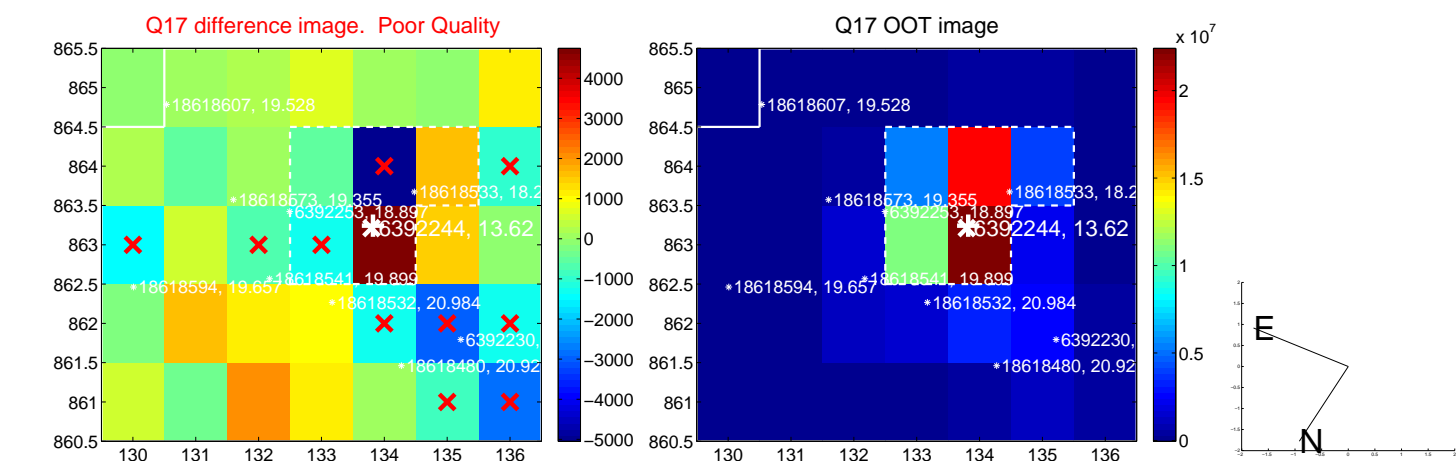
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



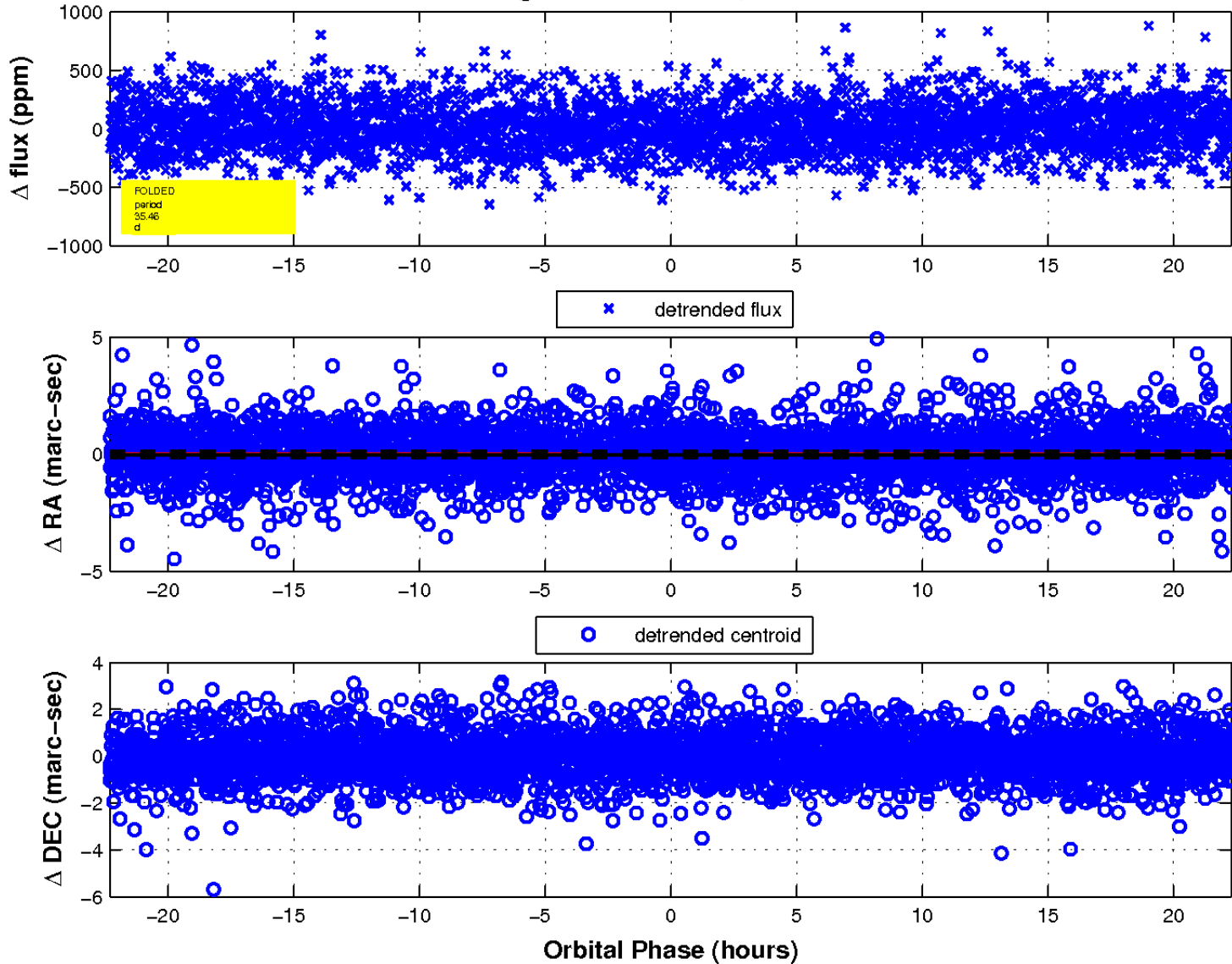
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

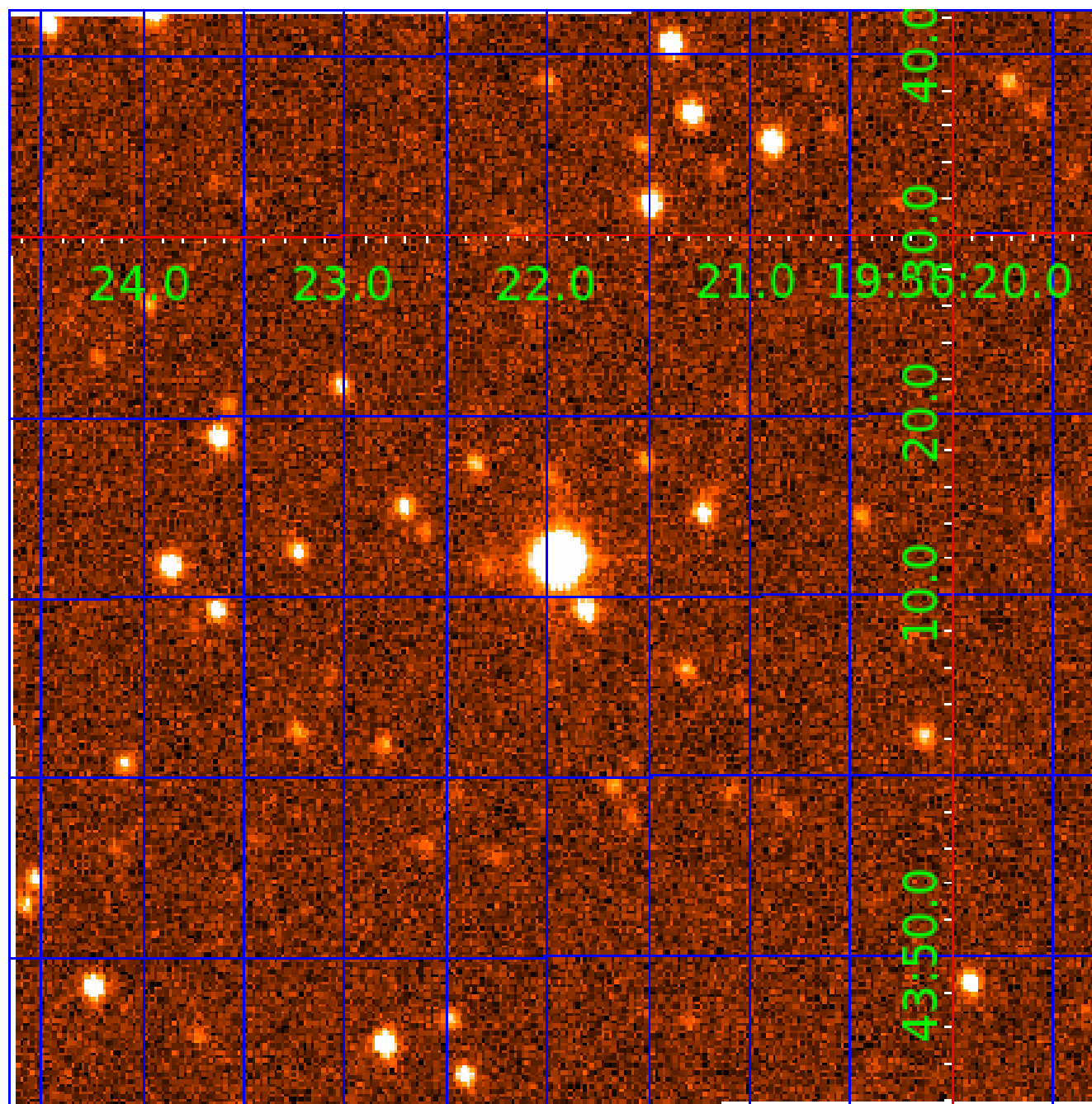


fluxWeightedCentroids, Planet 2 of 4



UKIRT Image

Declination



KIC 006392244

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})
006392244-01	OBS	No	1.165585	131.786018	21.8	7.674	7.5	8.7	1.18	6579	0.58	4879.93
006392244-02	OBS	No	35.458998	136.215257	174.3	7.441	9.5	8.8	1.18	6579	1.70	51.38
006392244-04	OBS	No	68.021218	140.907081	346.3	2.178	8.1	8.3	1.18	6579	2.38	21.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006392244-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
006392244-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006392244-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT

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

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

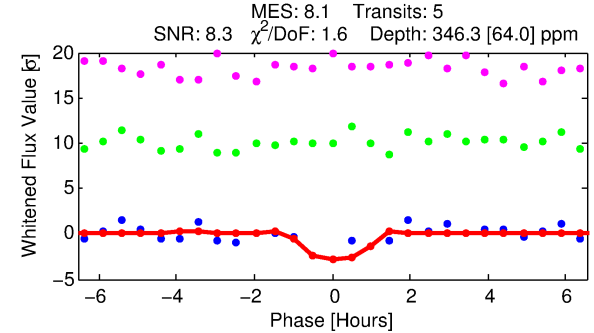
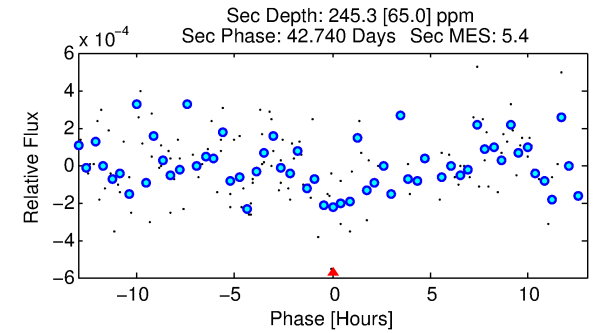
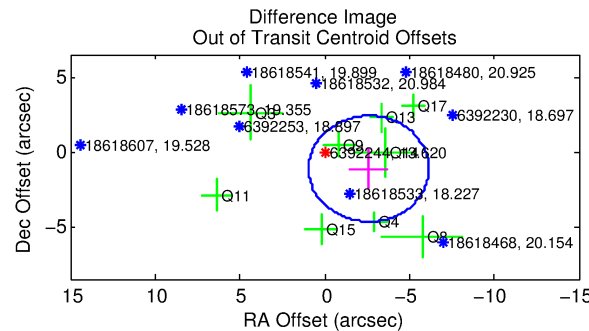
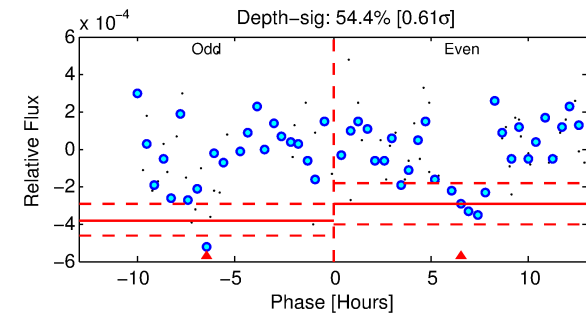
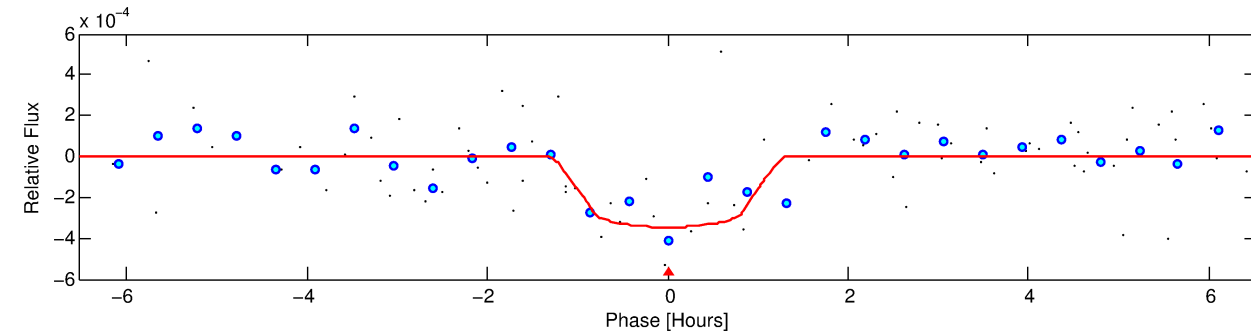
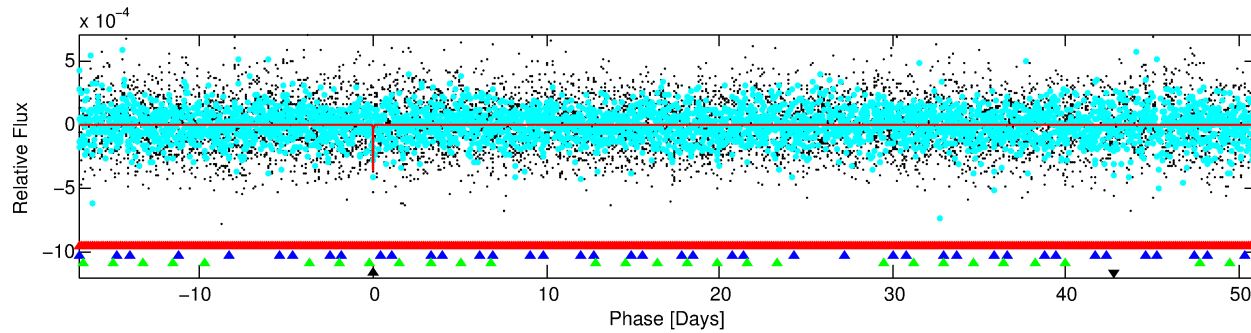
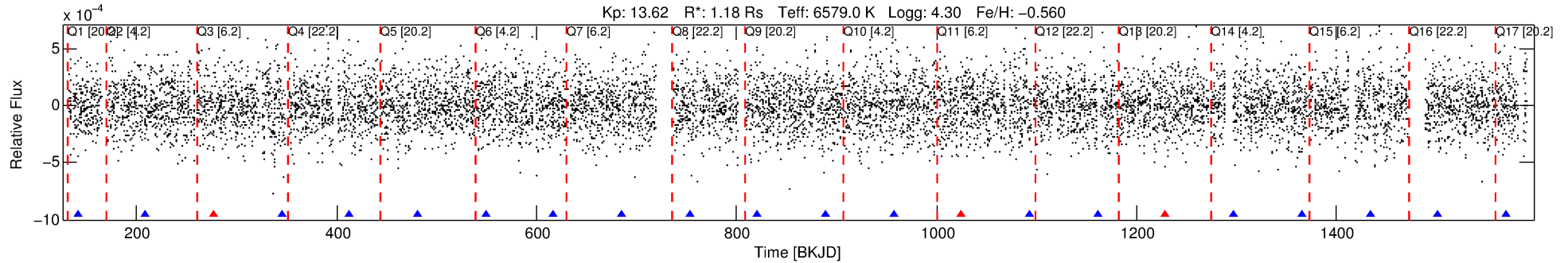
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006392244-04

No Significant Match Found

DV One-Page Summary

KIC: 6392244 Candidate: 4 of 4 Period: 68.021 d



DV Fit Results:

Period = 68.02122 [0.00103] d
Epoch = 140.9071 [0.0128] BKJD
Rp/R* = 0.0186 [0.0434]
a/R* = 163.51 [2144.92]
b = 0.75 [7.65]
Seff = 21.56 [7.44]
Teq = 549 [47] K
Rp = 2.38 [5.61] Re
a = 0.3281 [0.0738] AU
Ag = 2562.77 [12044.19] [0.21σ]
Teffp = 6044 [7088] K [0.78σ]

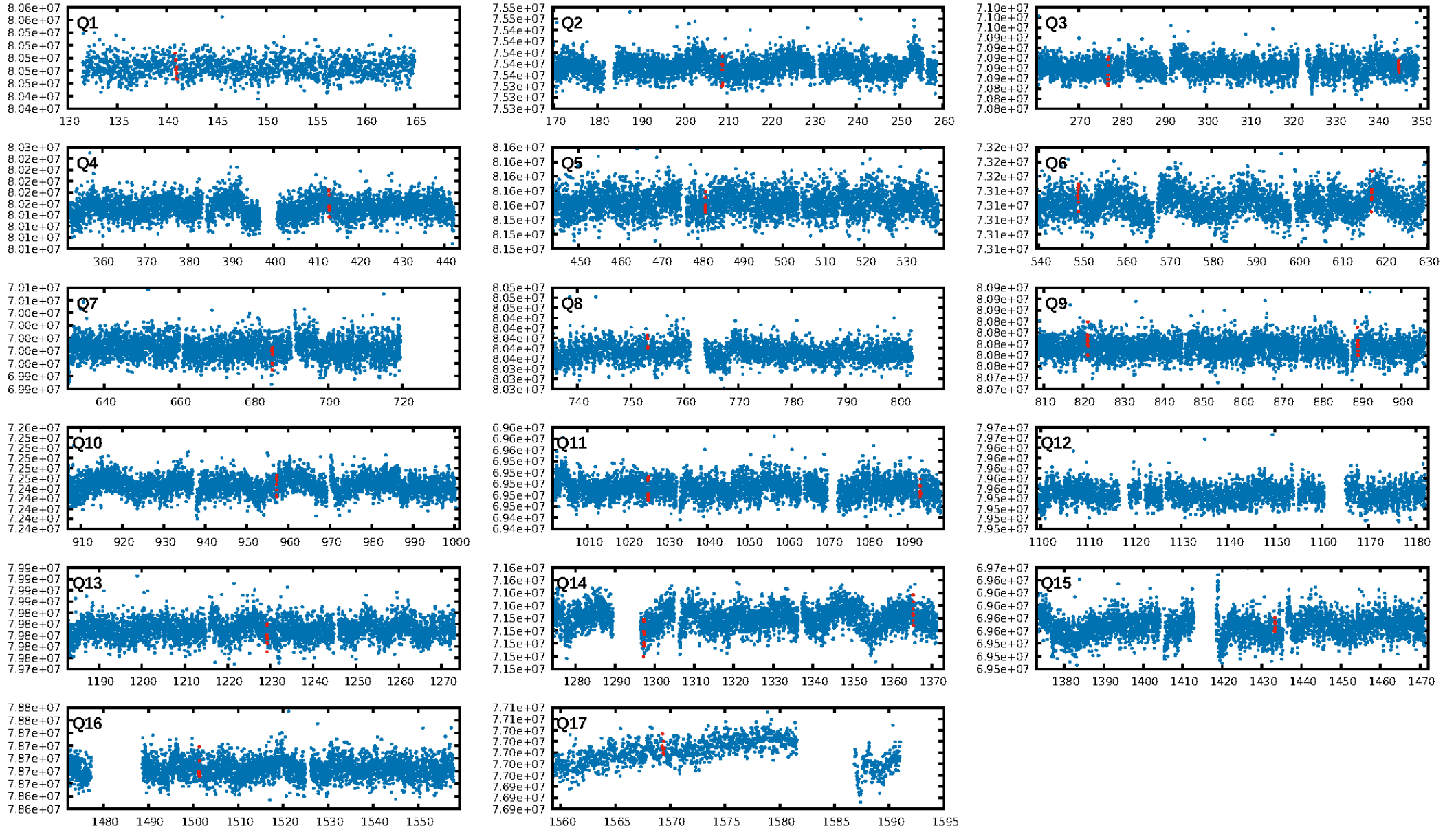
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [78.12σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 72.9%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: 4.47e-08
RollingBand-fgt: 0.40 [2/5]
GhostDiagnostic-chr: -0.5961
Centroid-sig: N/A
Centroid-so: 0.873 arcsec [1.02σ]
OotOffset-rm: 2.833 arcsec [2.40σ]
KicOffset-rm: 2.914 arcsec [2.11σ]
OotOffset-st: 1/3/2/3 [9]
KicOffset-st: 1/3/2/3 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 0.38 [6/16]

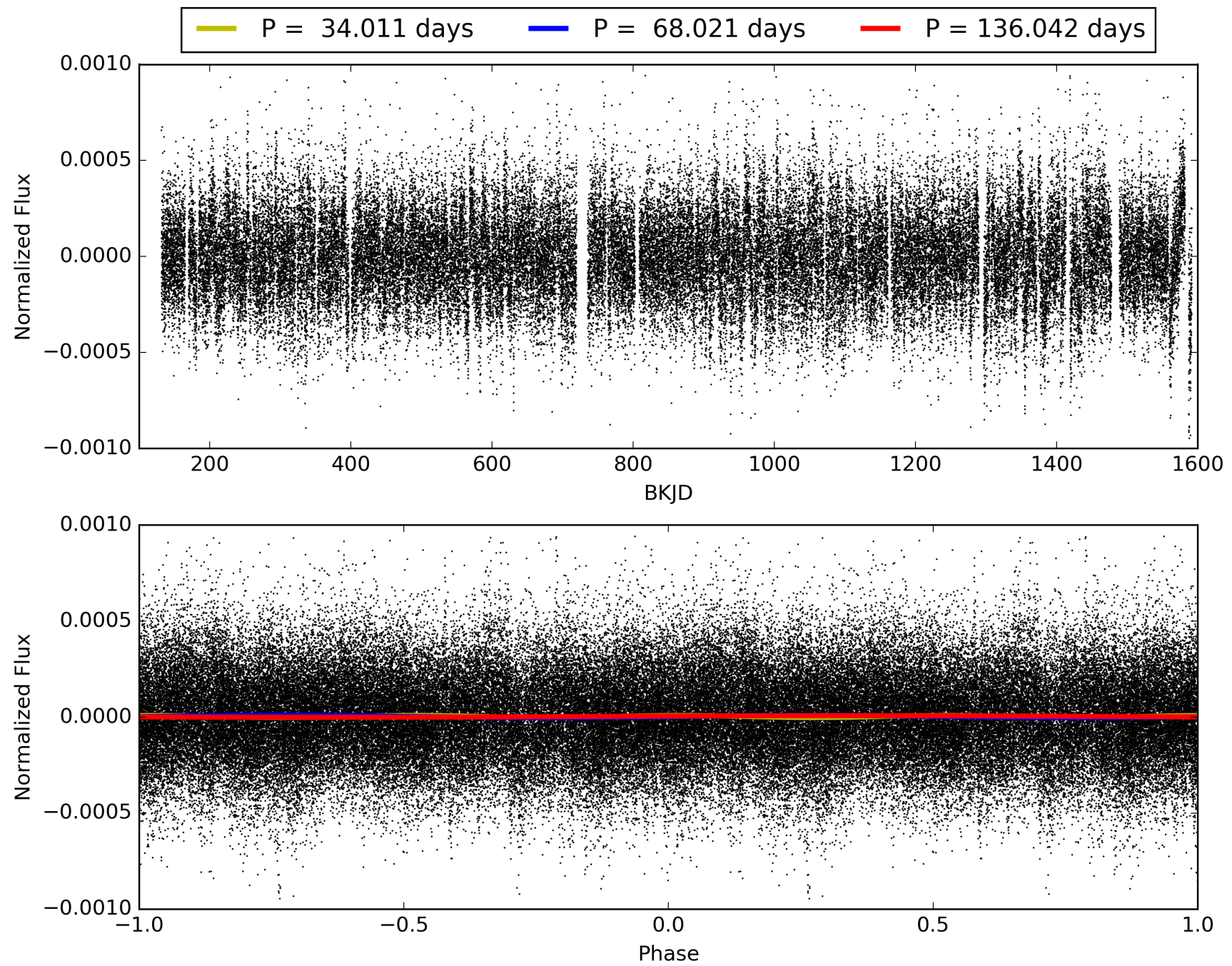
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 12:03:25 Z

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

TCE 006392244-04, PDC Light Curves

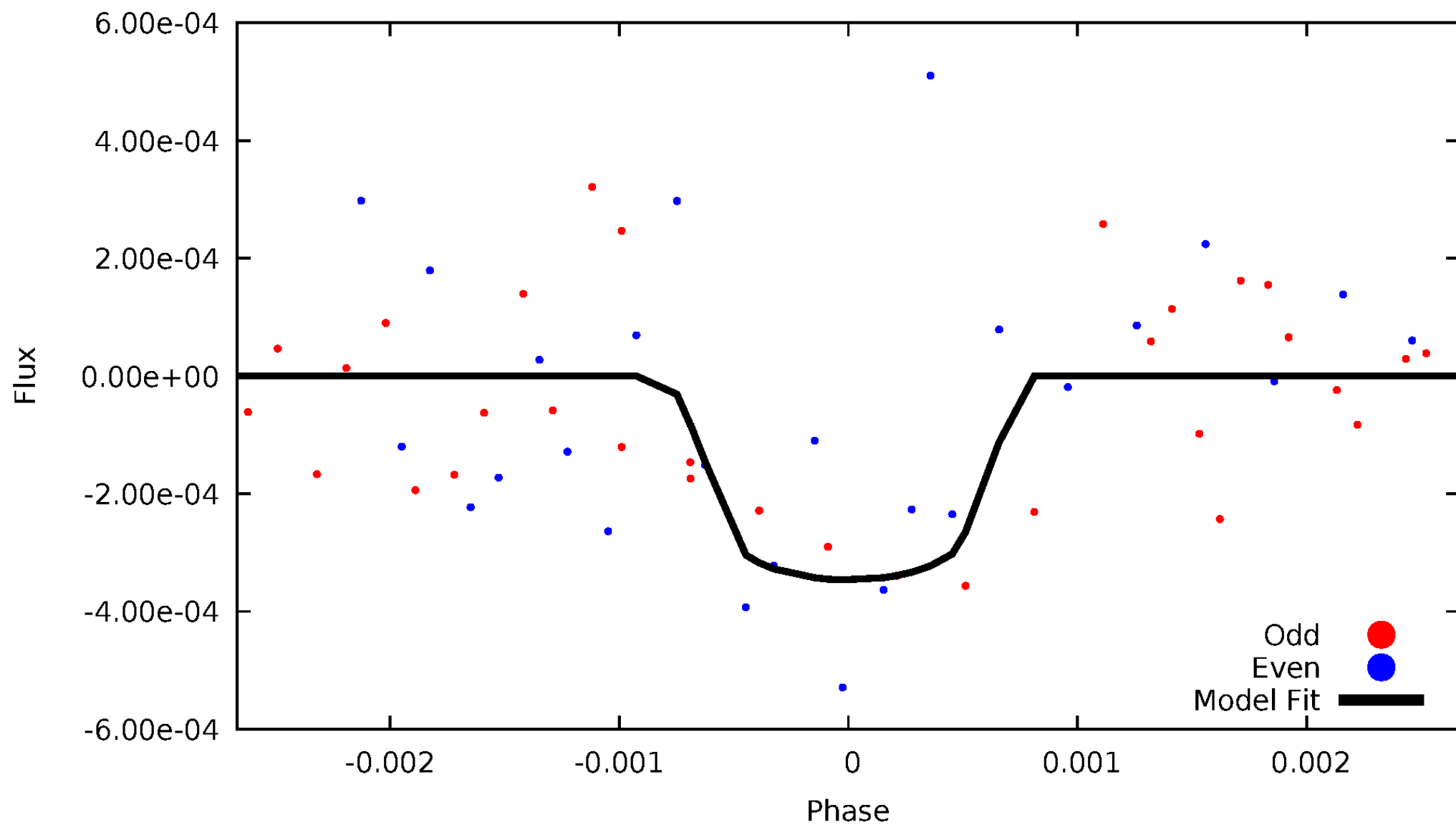


TCE 006392244-04



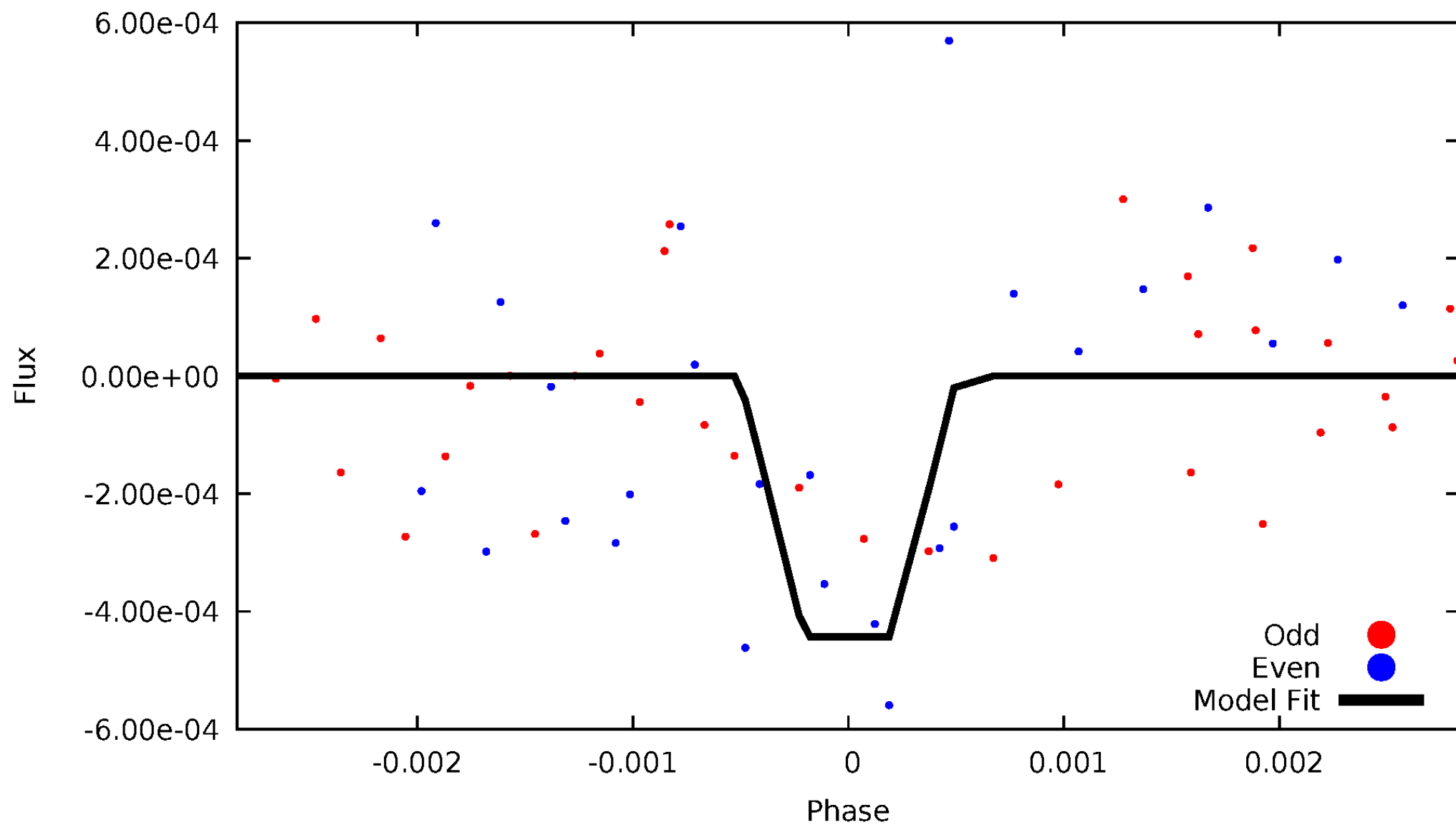
DV Odd/Even

TCE 006392244-04



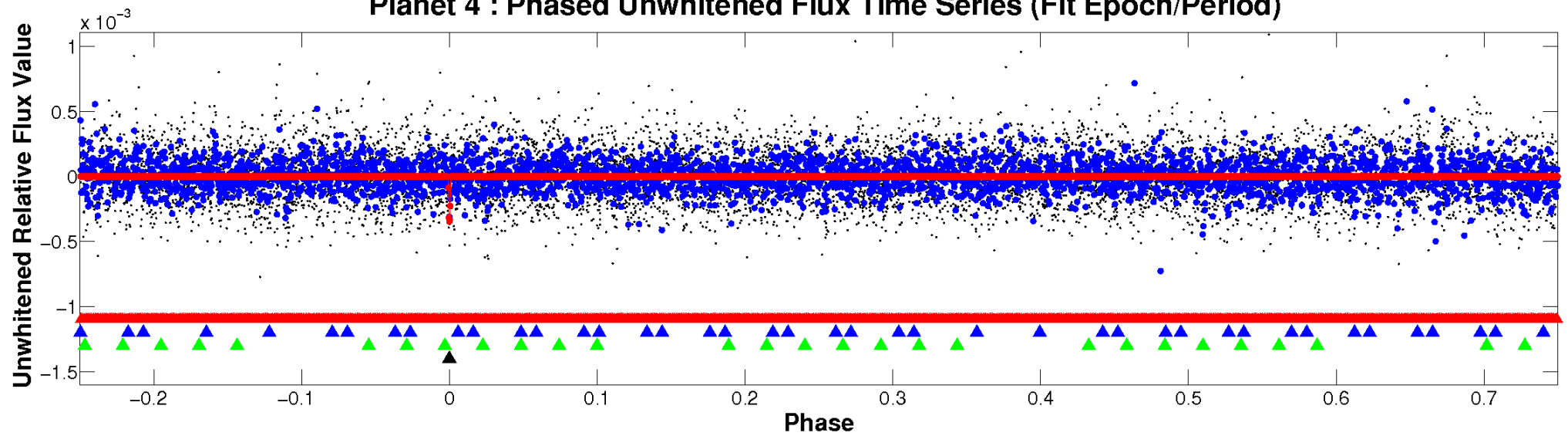
ALT Odd/Even

TCE 006392244-04

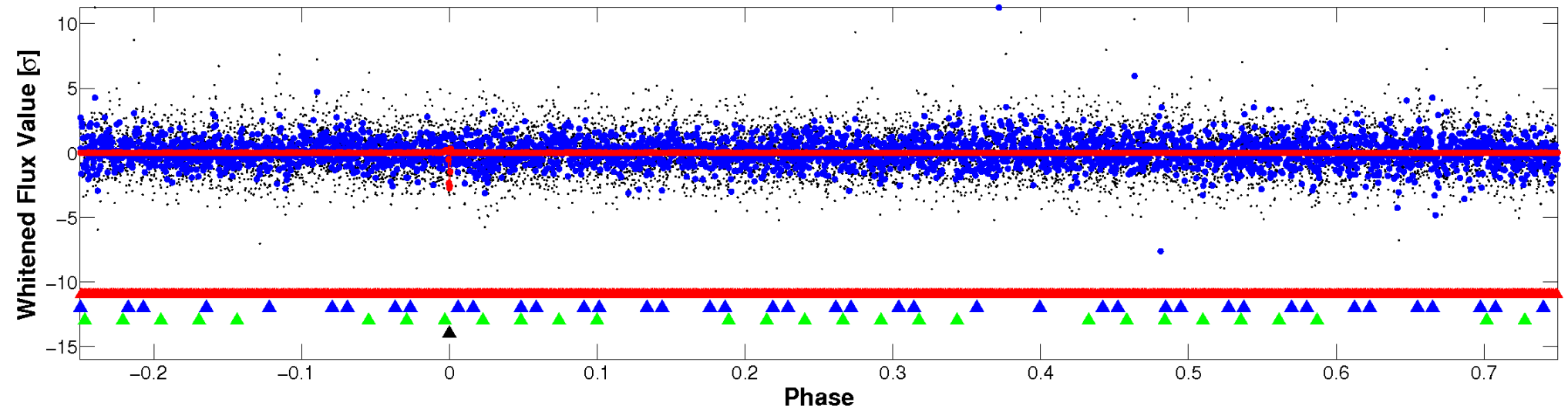


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

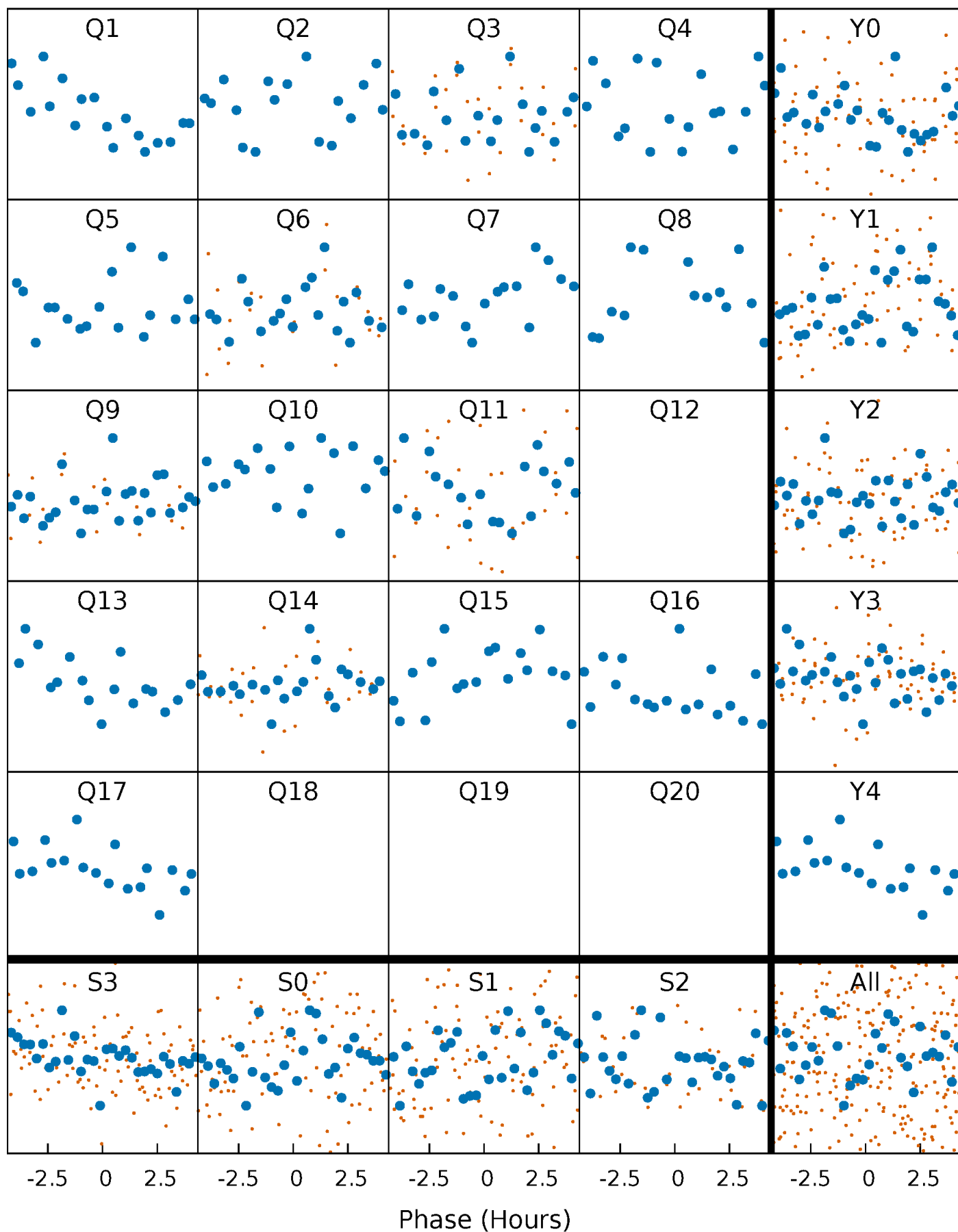


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



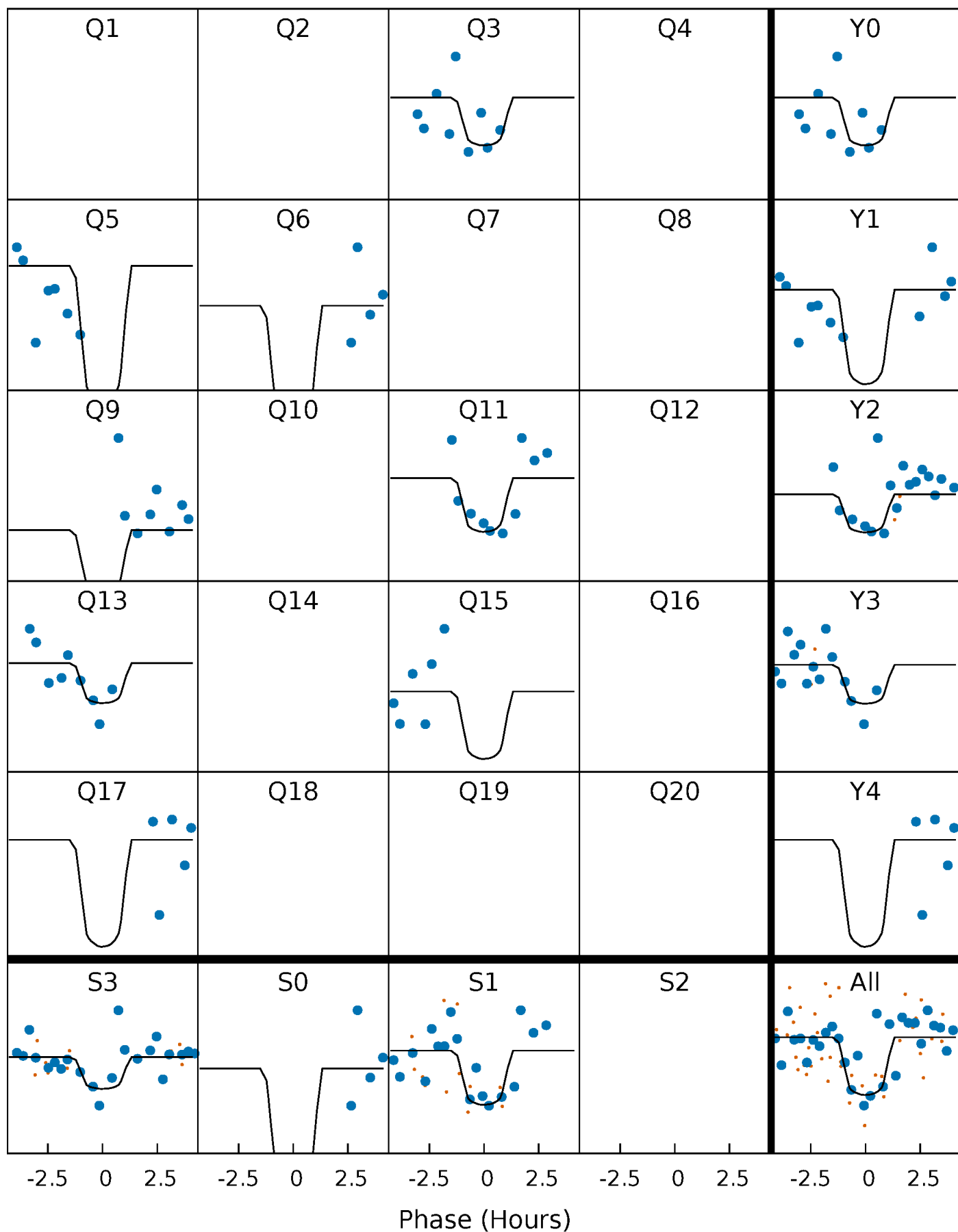
PDC Quarter-Phased Transit Curves

TCE 006392244-04 P= 68.021218 Days $T_0=140.907081$ (BKJD)



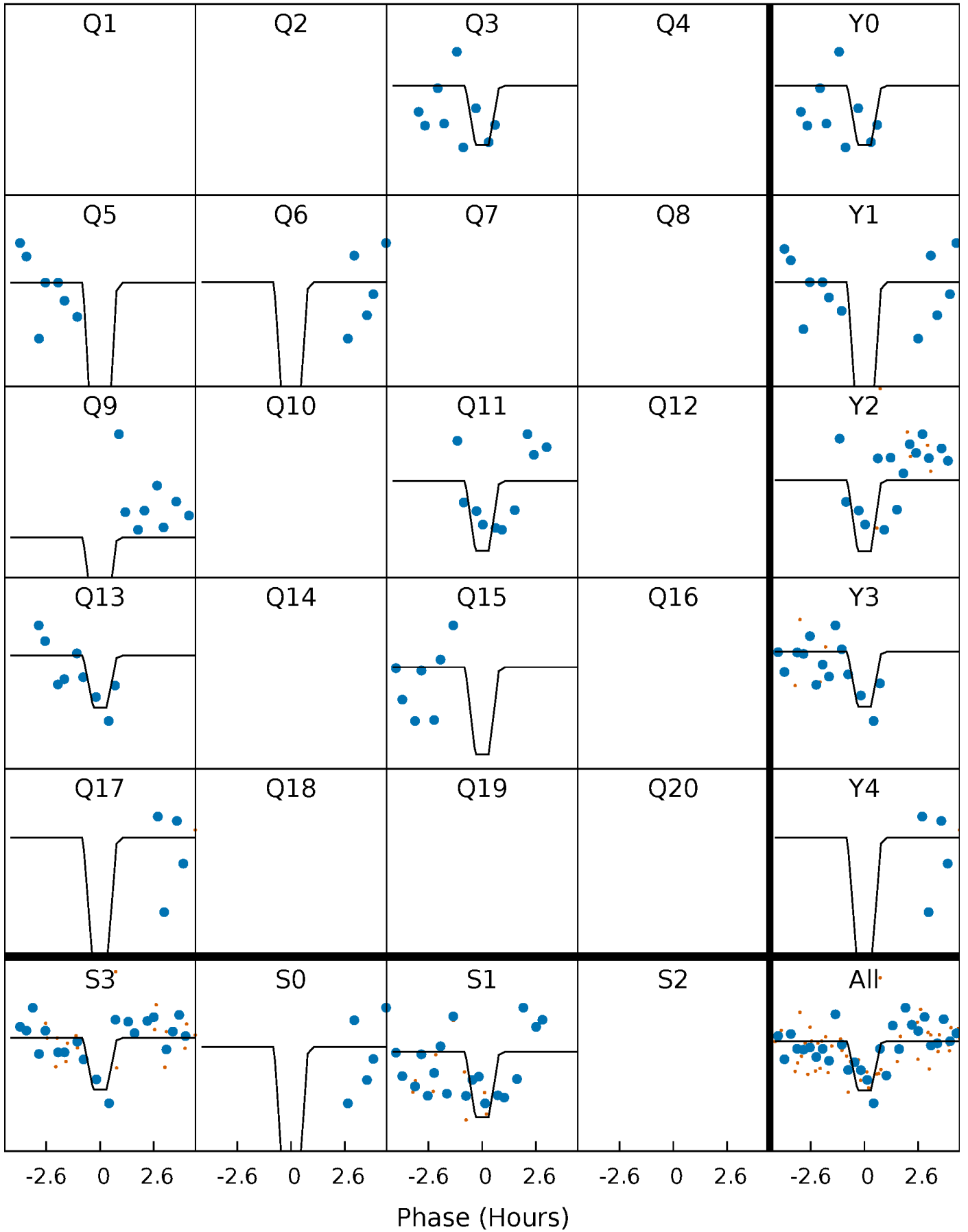
DV Quarter-Phased Transit Curves

TCE 006392244-04 P= 68.021218 Days $T_0=140.907081$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

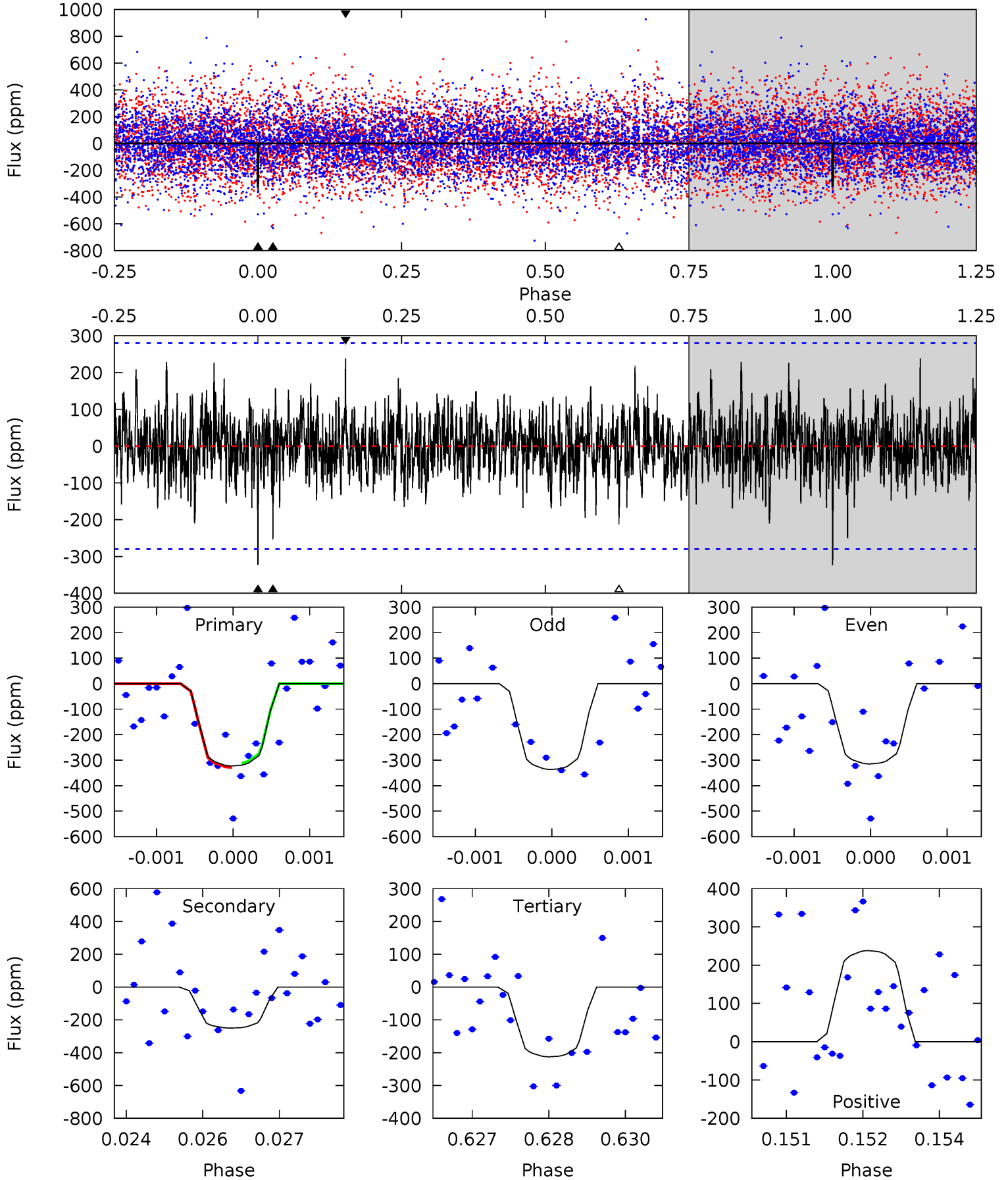
TCE 006392244-04 P= 68.020031 Days $T_0=140.911506$ (BKJD)



DV Model-Shift Uniqueness Test

006392244-04, P = 68.021218 Days, E = 72.885863 Days

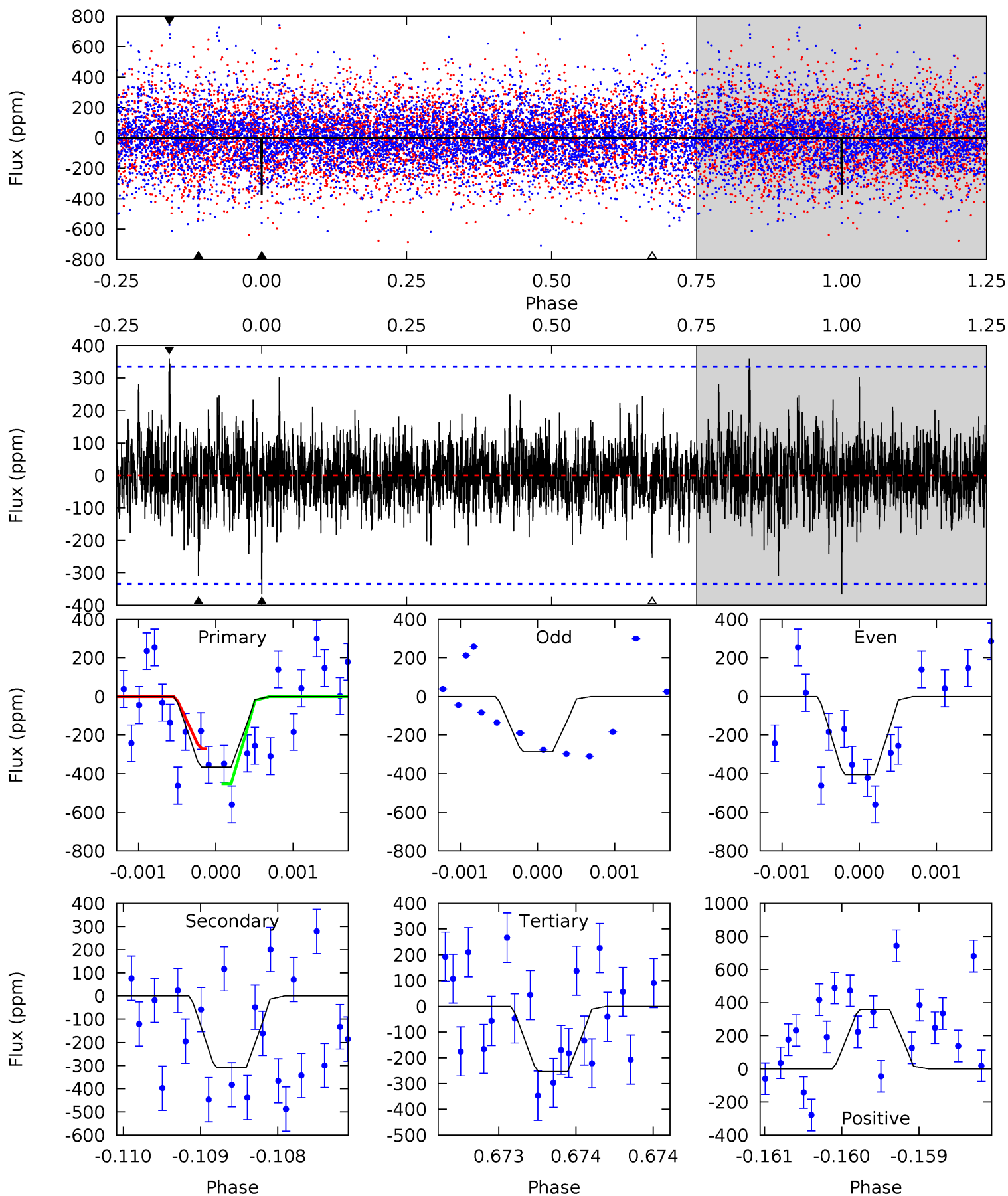
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.23	4.82	4.10	4.59	5.40	3.21	1.21	2.12	1.63	0.72	0.23	0.20	0.38	0.42	0.16



Alt Model-Shift Uniqueness Test

006392244-04, P = 68.020031 Days, E = 72.891475 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.97	5.05	4.13	5.87	5.46	3.30	1.17	1.84	0.10	0.92	-0.82	0.96	1.07	0.50	1.48



Stellar Parameters For KIC 006392244

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6579^{+177}_{-217}	$4.305^{+0.139}_{-0.170}$	$-0.560^{+0.300}_{-0.300}$	$1.176^{+0.323}_{-0.189}$	$1.020^{+0.149}_{-0.112}$	$0.882^{+0.591}_{-0.408}$
	+3%/-3%	+3%/-4%	+54%/-54%	+27%/-16%	+15%/-11%	+67%/-46%
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 006392244-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-250 ± 52	$4.78^{+4.64}_{-3.38}$	766^{+57}_{-40}	4428^{+3758}_{-903}	626^{+6930}_{-460}
Alt.	-310 ± 61	$4.89^{+4.99}_{-3.29}$	771^{+50}_{-46}	4610^{+3472}_{-980}	746^{+6411}_{-556}

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

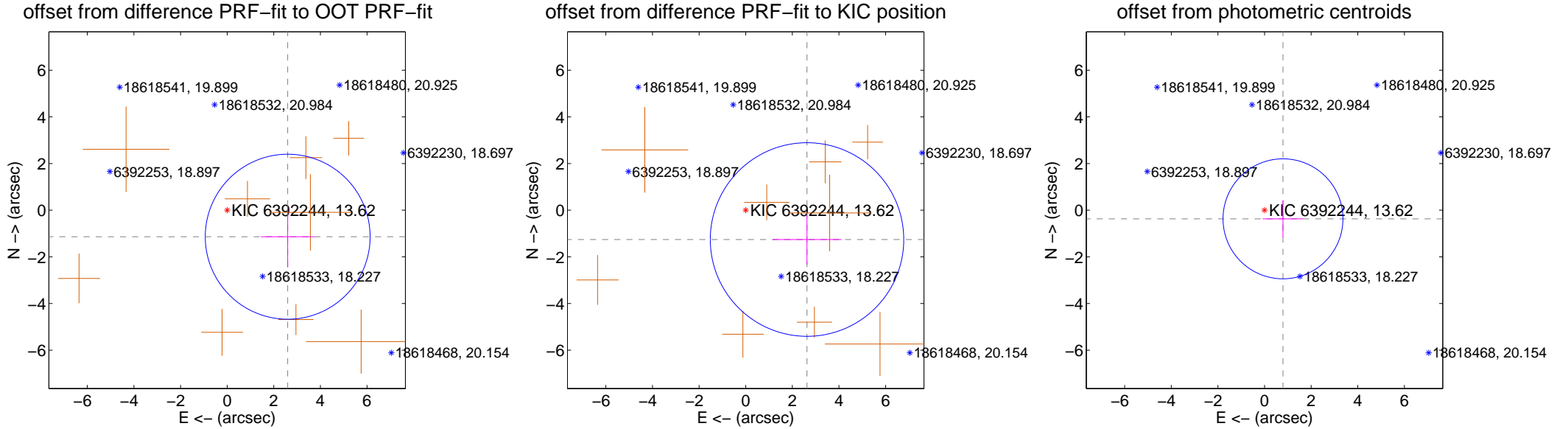
DV Centroid Data

Supplemental centroid analysis for 006392244-04. Kepler magnitude: 13.62. Transit SNR 8.33

There are 0 quarters with good PRF difference image offsets

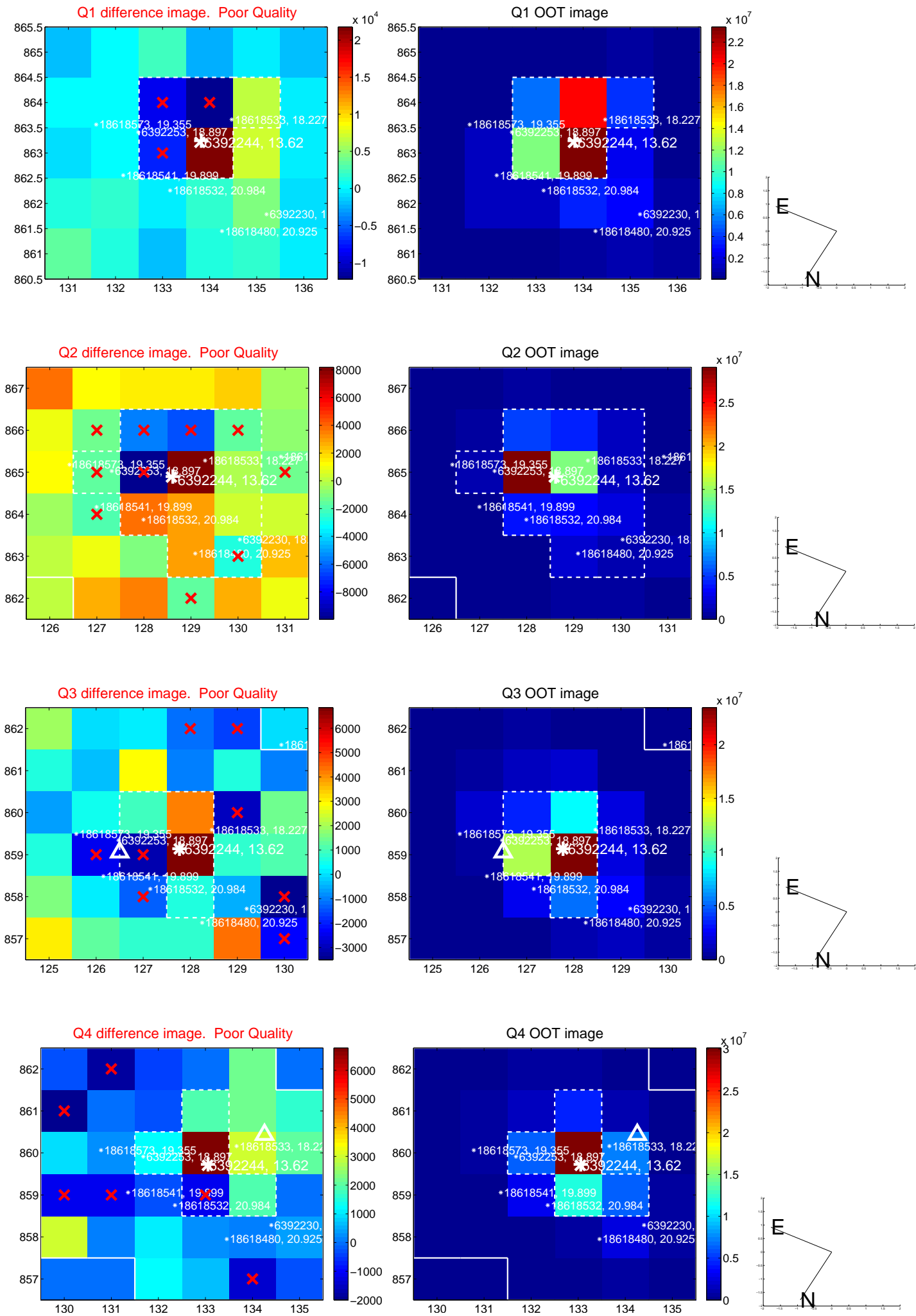
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.833 ± 1.178	2.40	-2.596 ± 1.151	-1.136 ± 1.312
PRF-fit source offset from KIC position	2.914 ± 1.383	2.11	-2.629 ± 1.479	-1.256 ± 1.068
photometric centroid source offset	0.87 ± 0.86	1.02	-0.79 ± 0.87	-0.37 ± 0.79

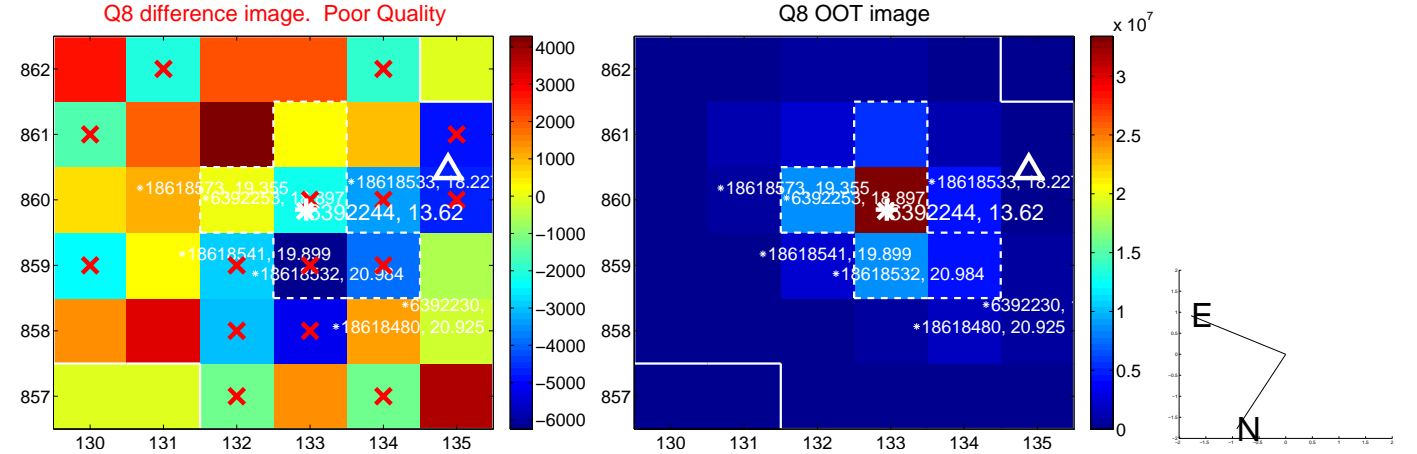
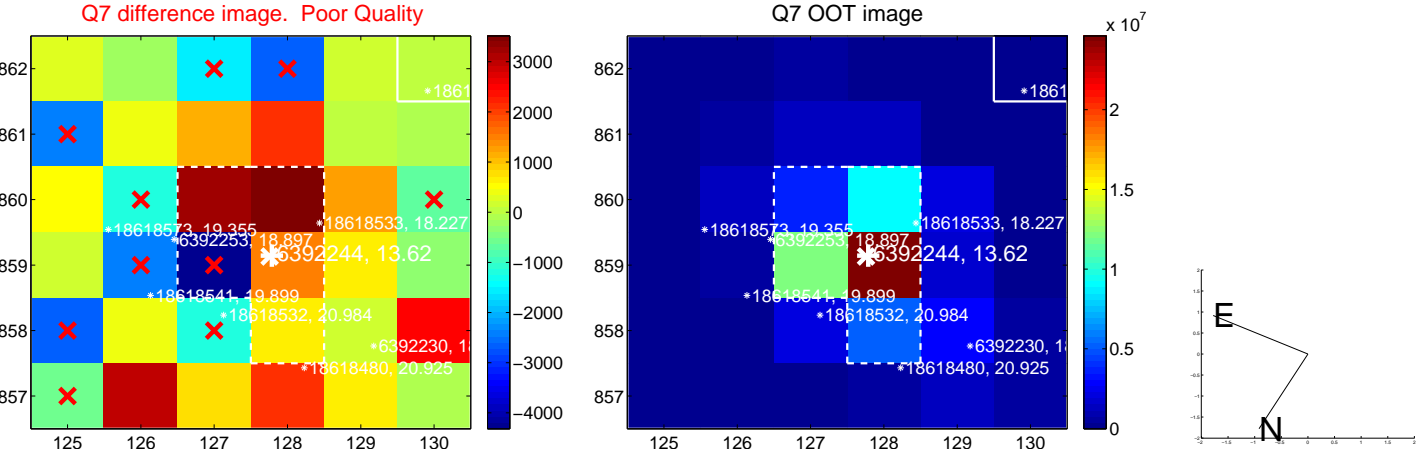
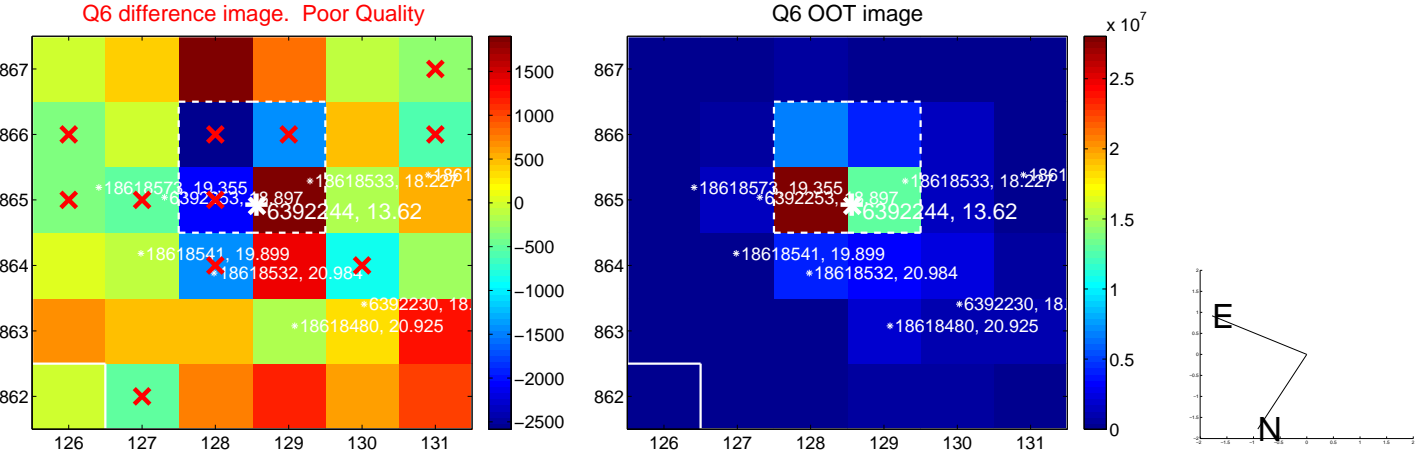
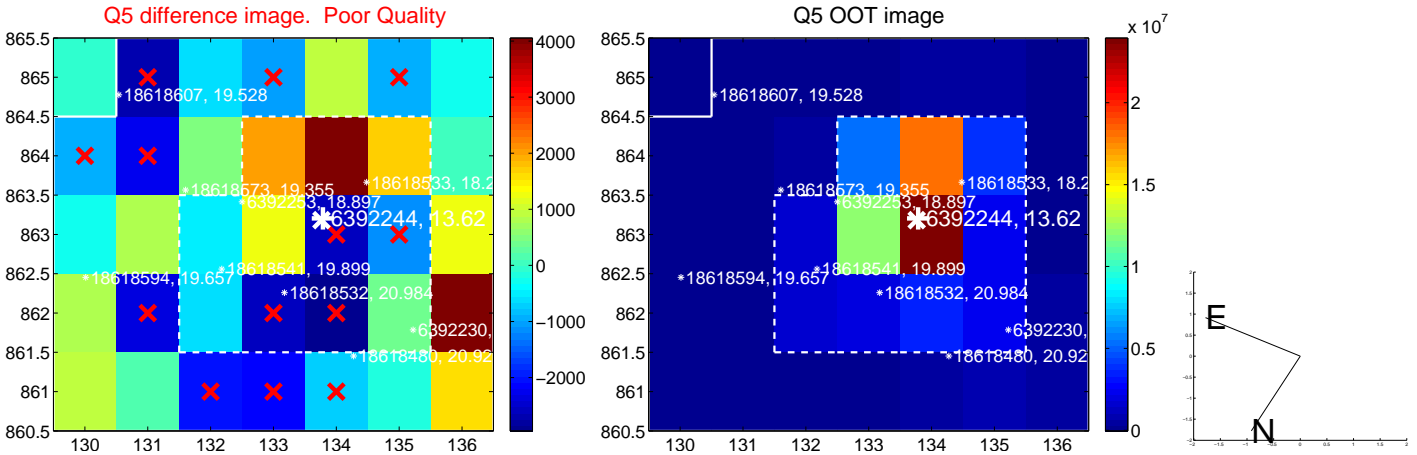


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

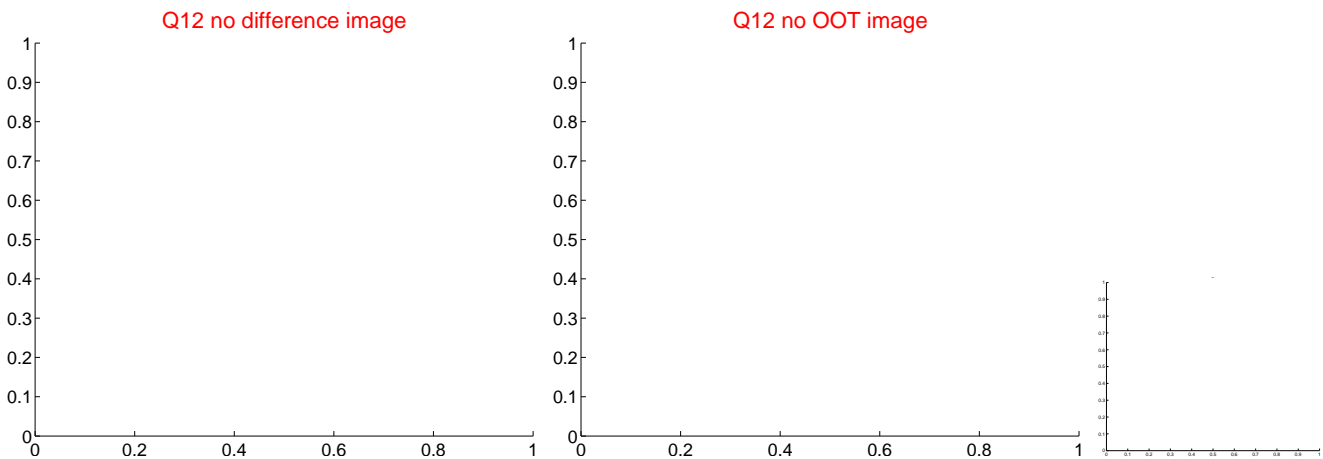
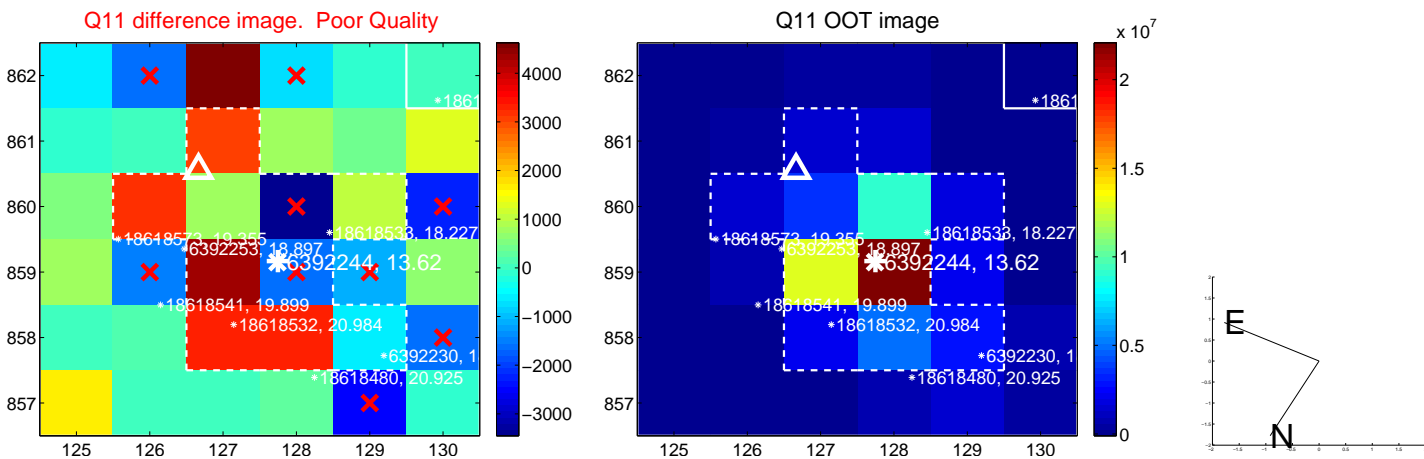
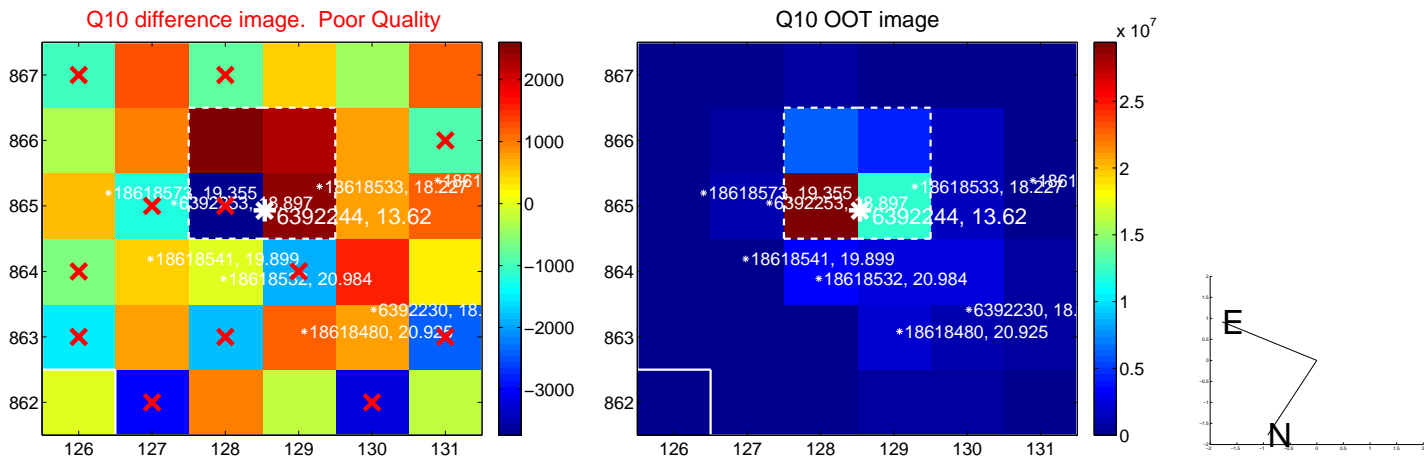
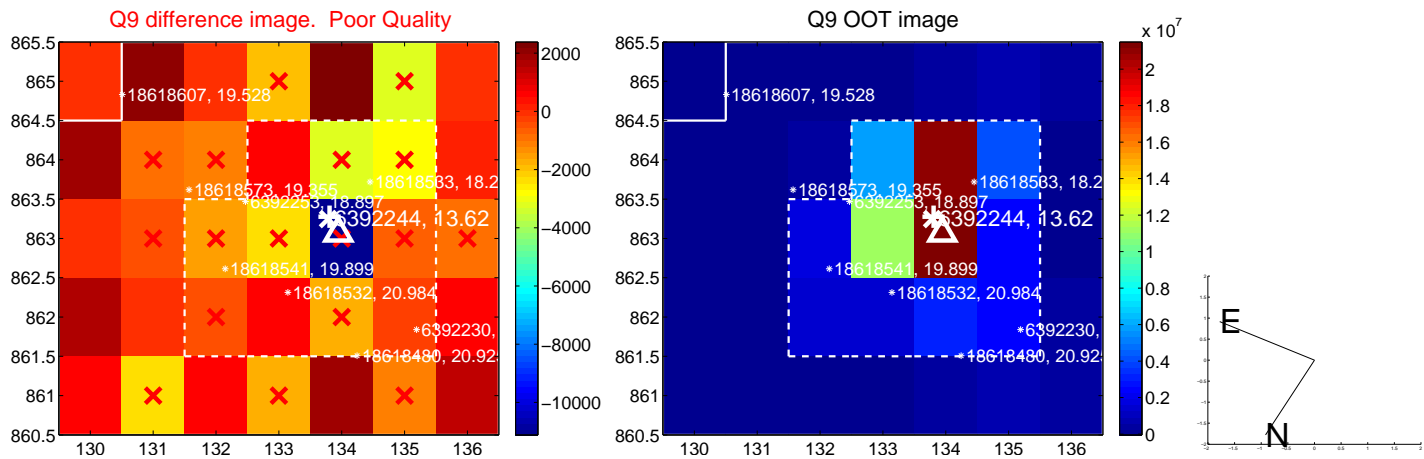
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



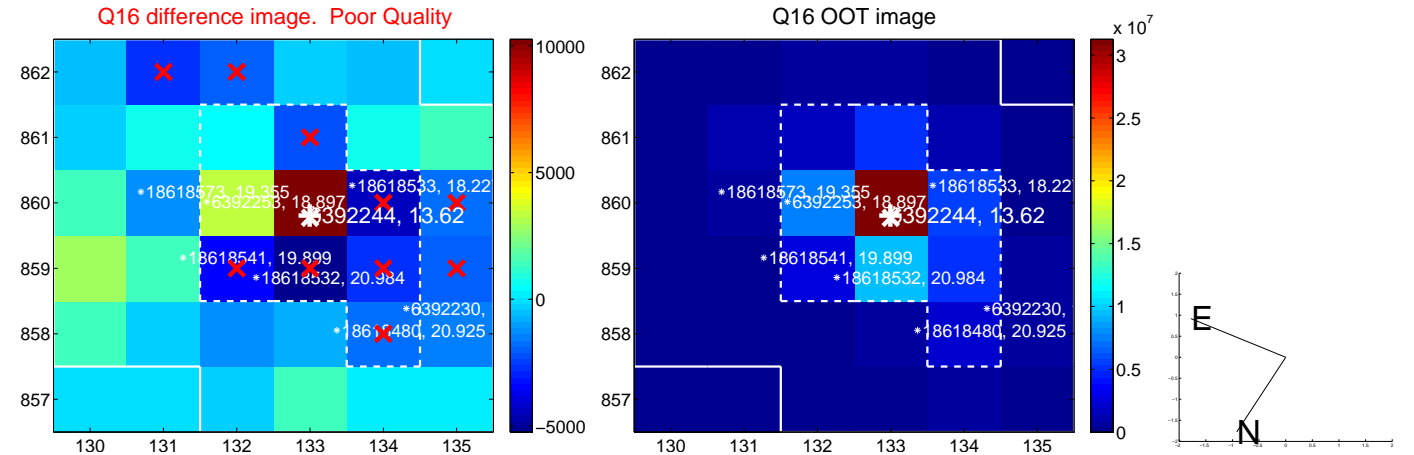
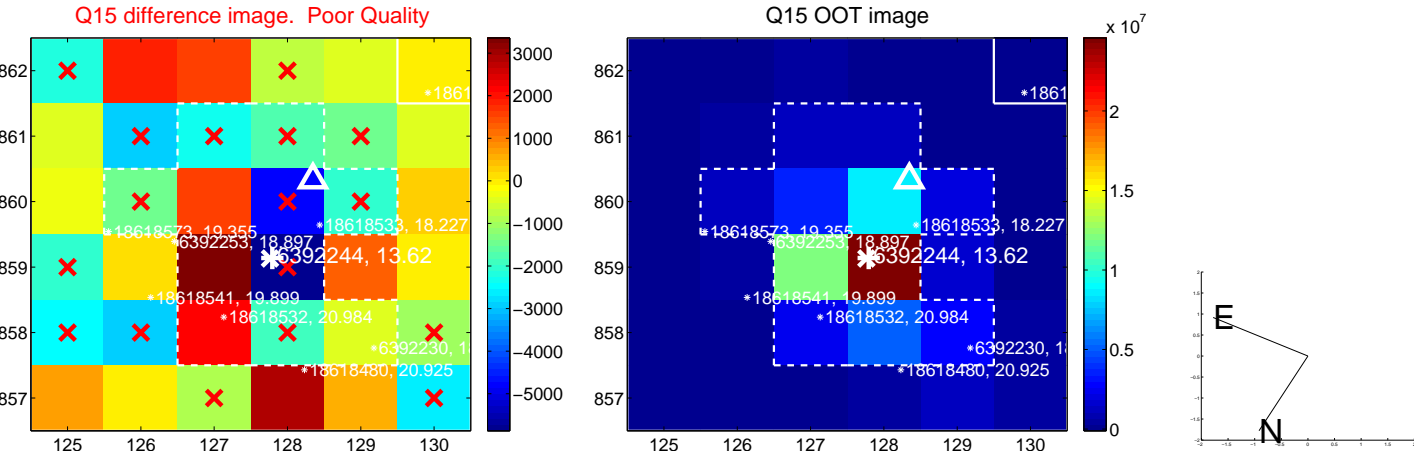
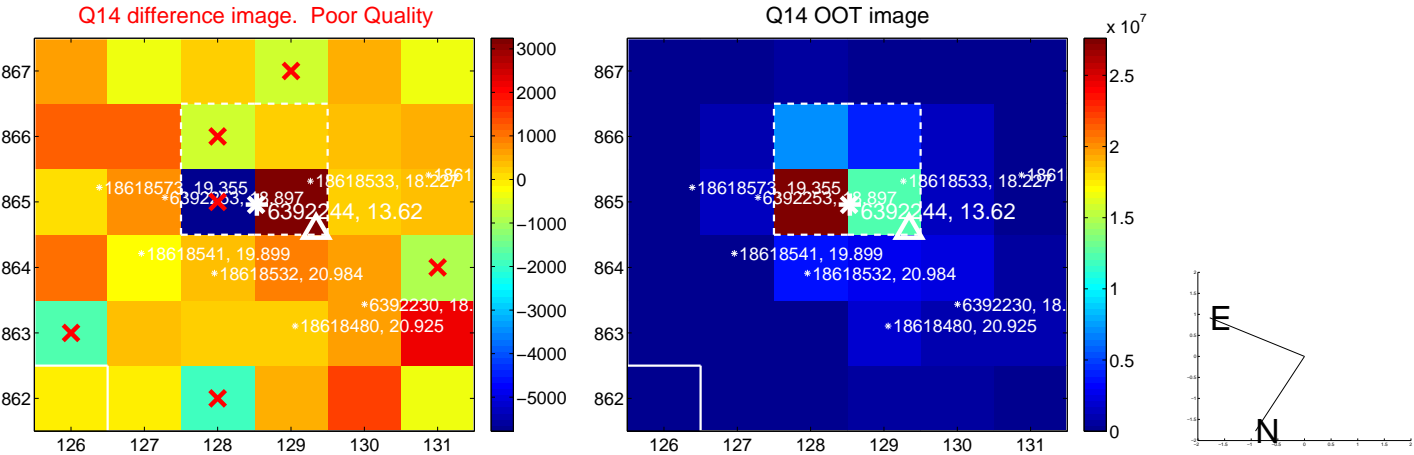
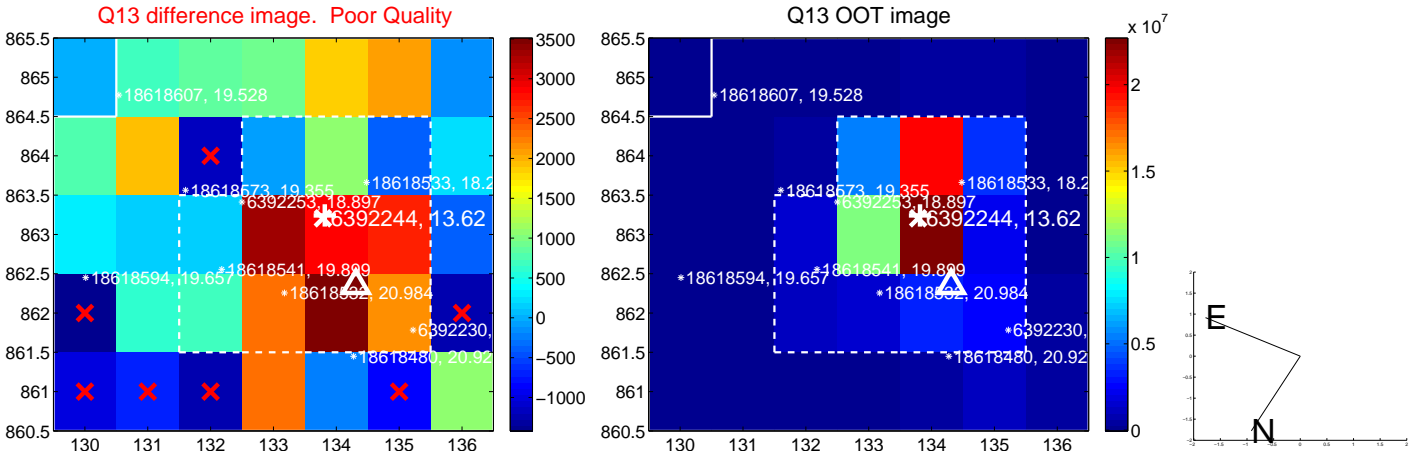
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



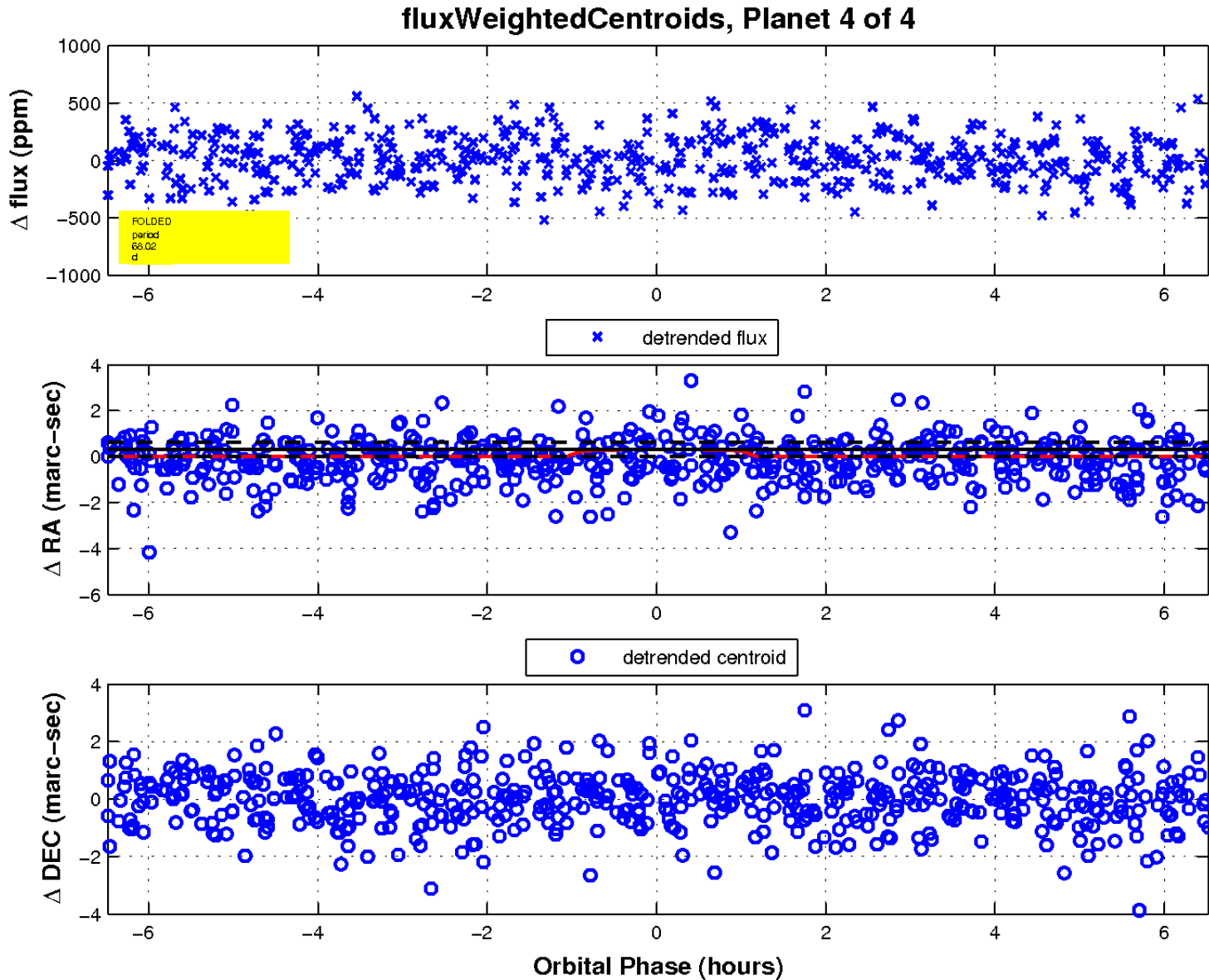
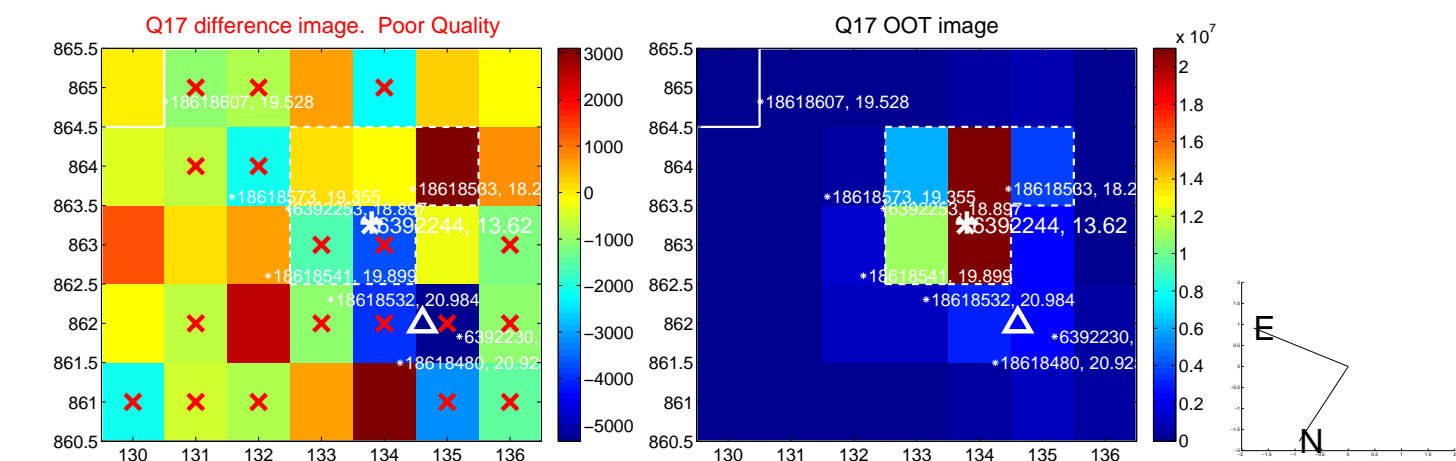
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

