

KIC 001434800

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})
001434800-01	OBS	No	0.999208	131.740539	39.7	5.274	10.0	10.9	1.64	6814	1.08	11308.02
001434800-02	OBS	No	75.797337	193.951796	450.9	2.927	9.1	6.7	1.64	6814	3.89	35.22
001434800-03	OBS	No	60.649472	135.692395	251.0	5.798	8.3	6.7	1.64	6814	3.08	47.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001434800-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
001434800-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_MEAS
001434800-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

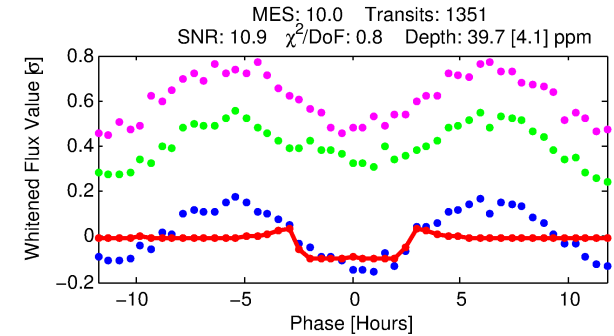
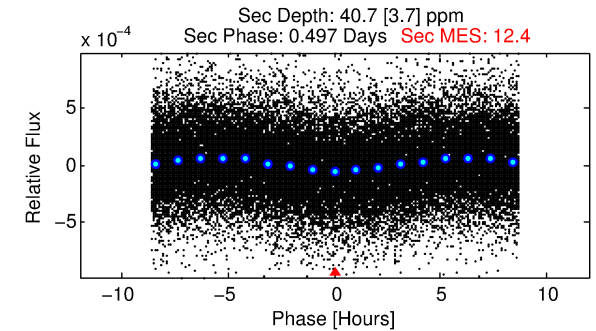
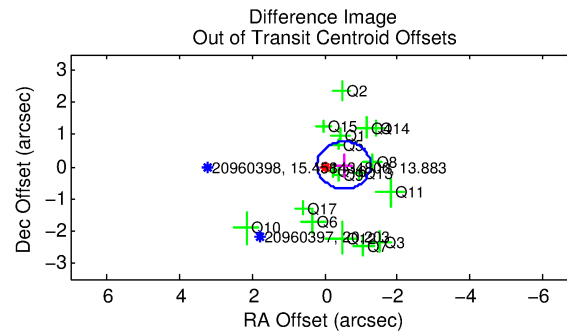
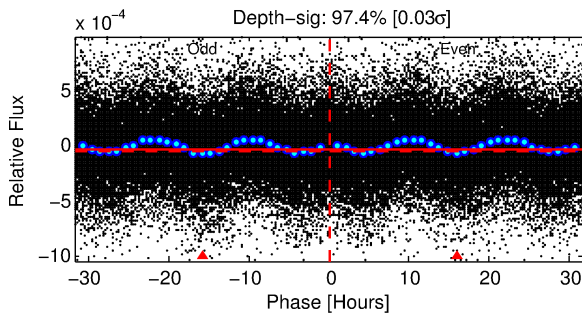
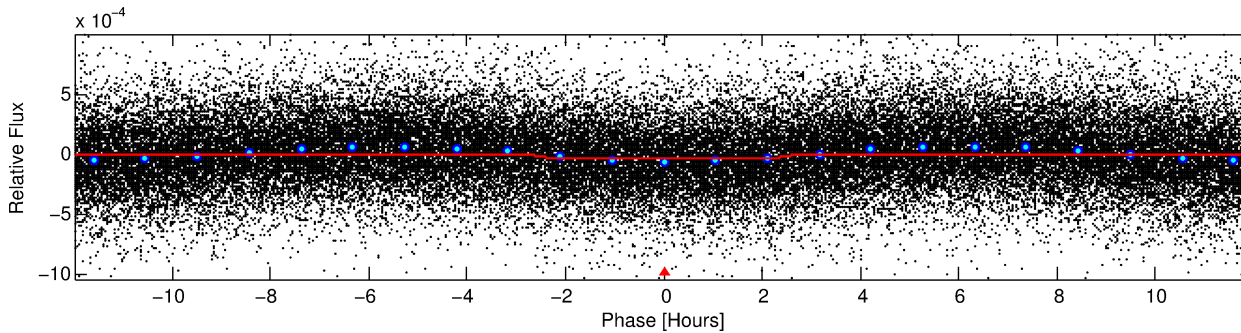
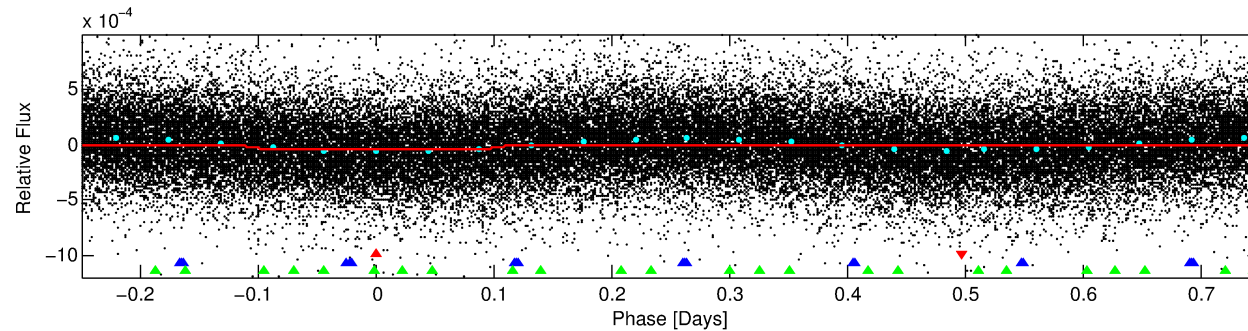
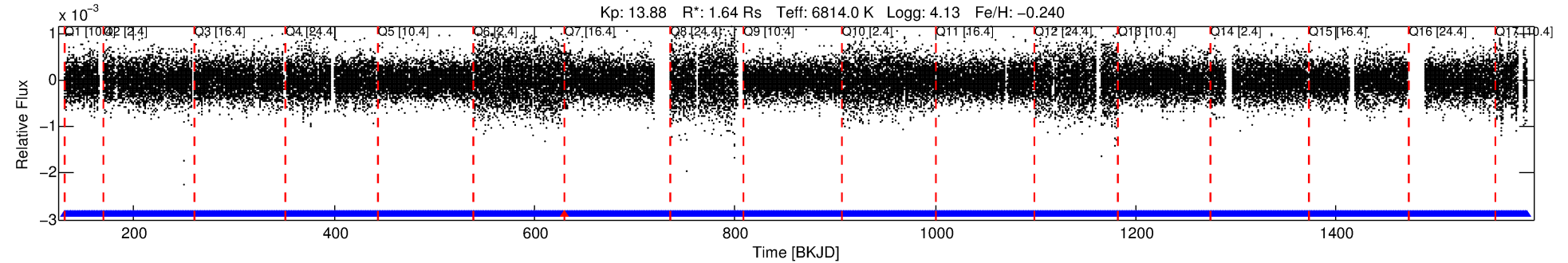
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001434800-01

No Significant Match Found

DV One-Page Summary

KIC: 1434800 Candidate: 1 of 3 Period: 0.999 d



DV Fit Results:

Period = 0.99921 [0.00001] d
Epoch = 131.7405 [0.0033] BKJD
Rp/R* = 0.0060 [0.0027]
a/R* = 1.44 [1.93]
b = 0.53 [3.55]
Seff = 11308.02 [4419.02]
Teq = 2629 [257] K
Rp = 1.08 [0.58] Re
a = 0.0215 [0.0053] AU
Ag = 8.91 [8.67] [0.91 σ]
Teffp = 7025 [1618] K [2.68 σ]

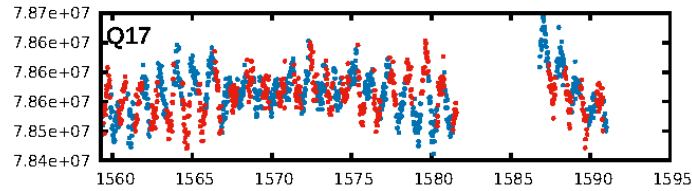
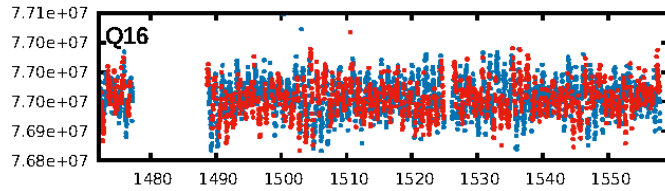
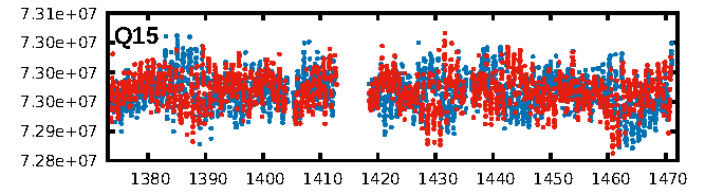
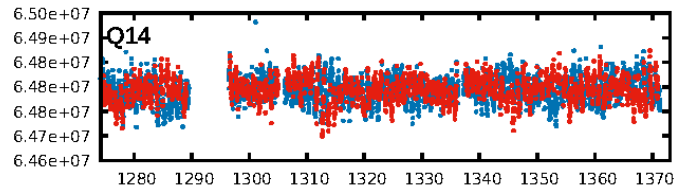
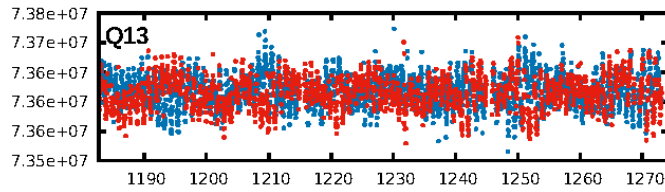
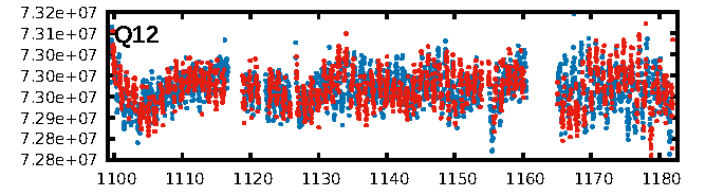
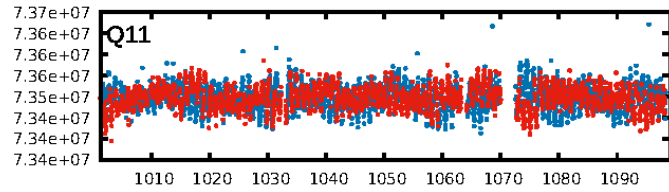
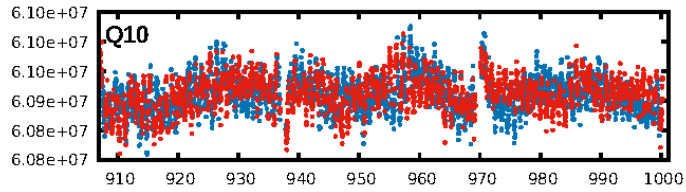
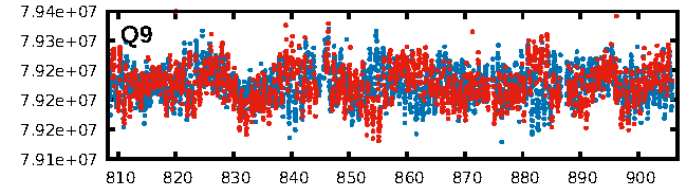
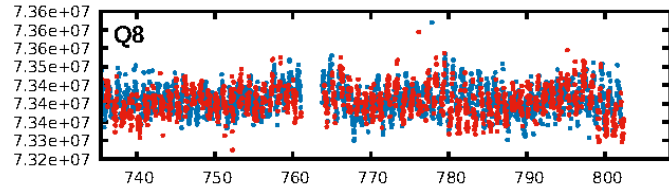
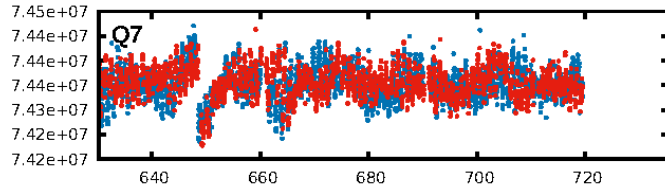
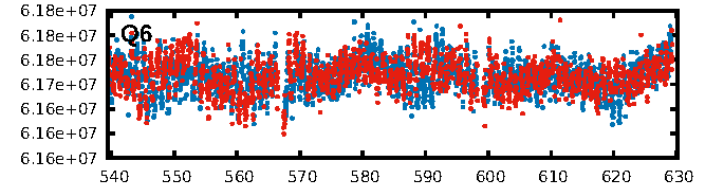
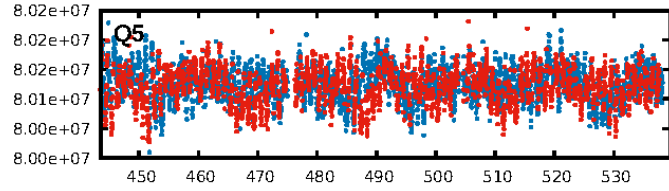
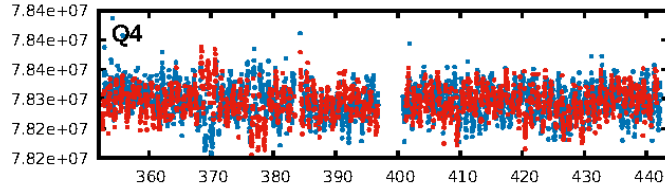
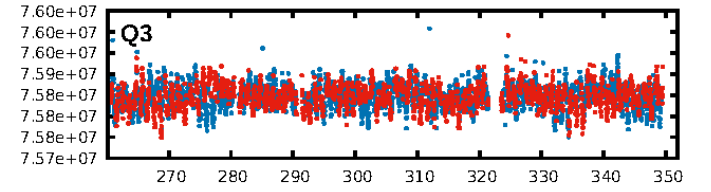
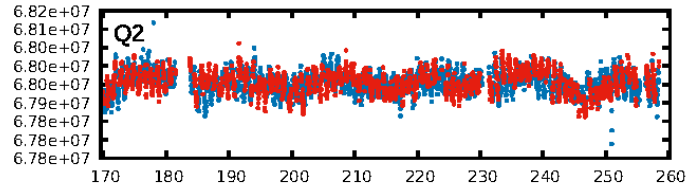
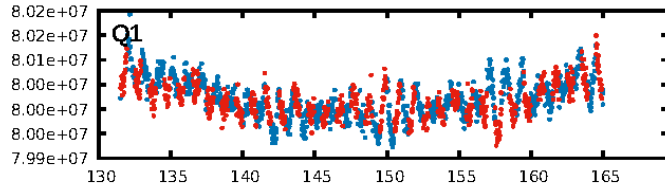
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [182.65 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.75e-12
RollingBand-fgt: 1.00 [1289/1290]
GhostDiagnostic-chr: 2.156
Centroid-sig: 0.0%
Centroid-so: 1.693 arcsec [2.47 σ]
OotOffset-rm: 0.528 arcsec [2.15 σ]
KicOffset-rm: 0.176 arcsec [0.49 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.82 [14/17]
DiffImageOverlap-fno: 1.00 [17/17]

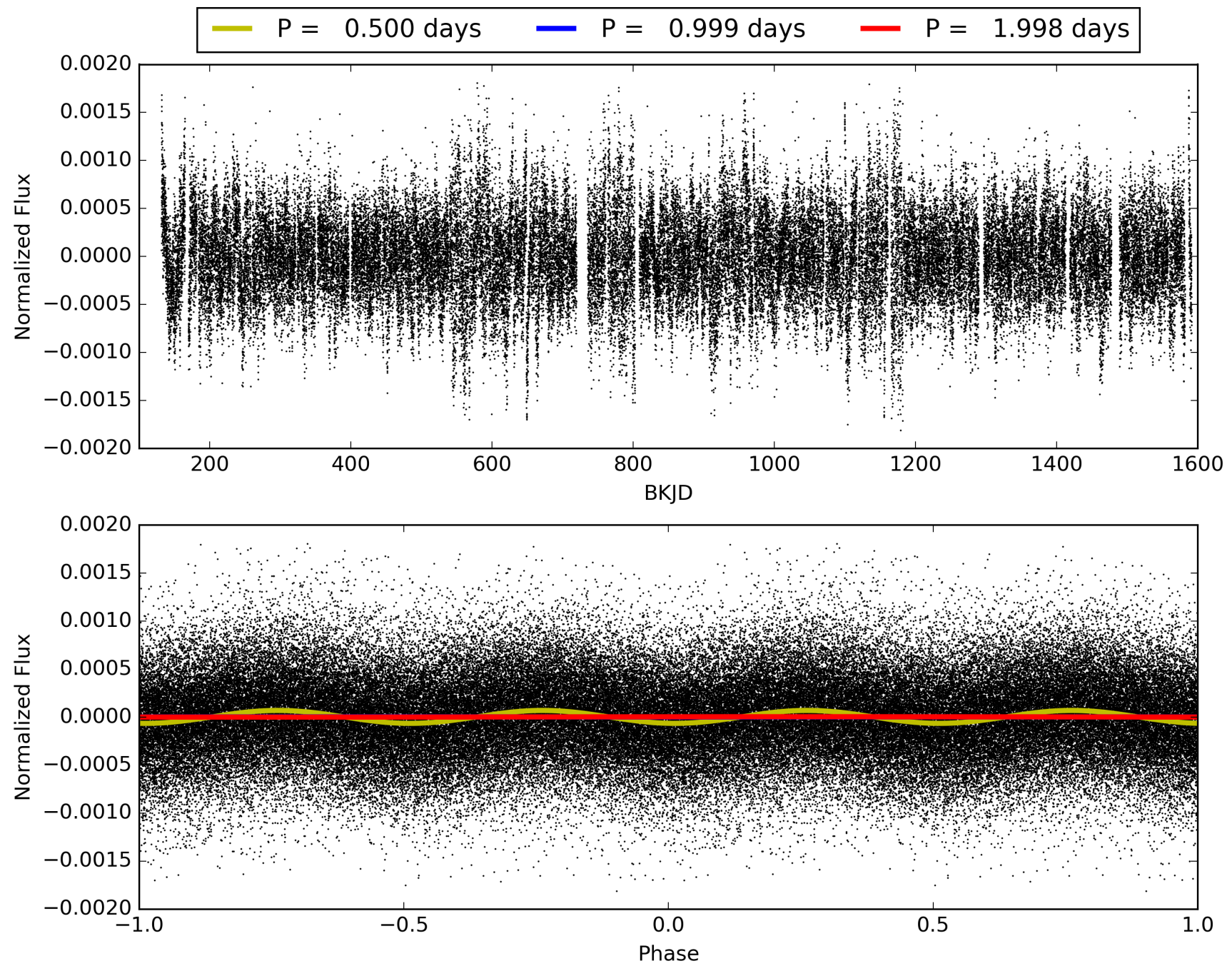
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 14:00:03 Z

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

TCE 001434800-01, PDC Light Curves

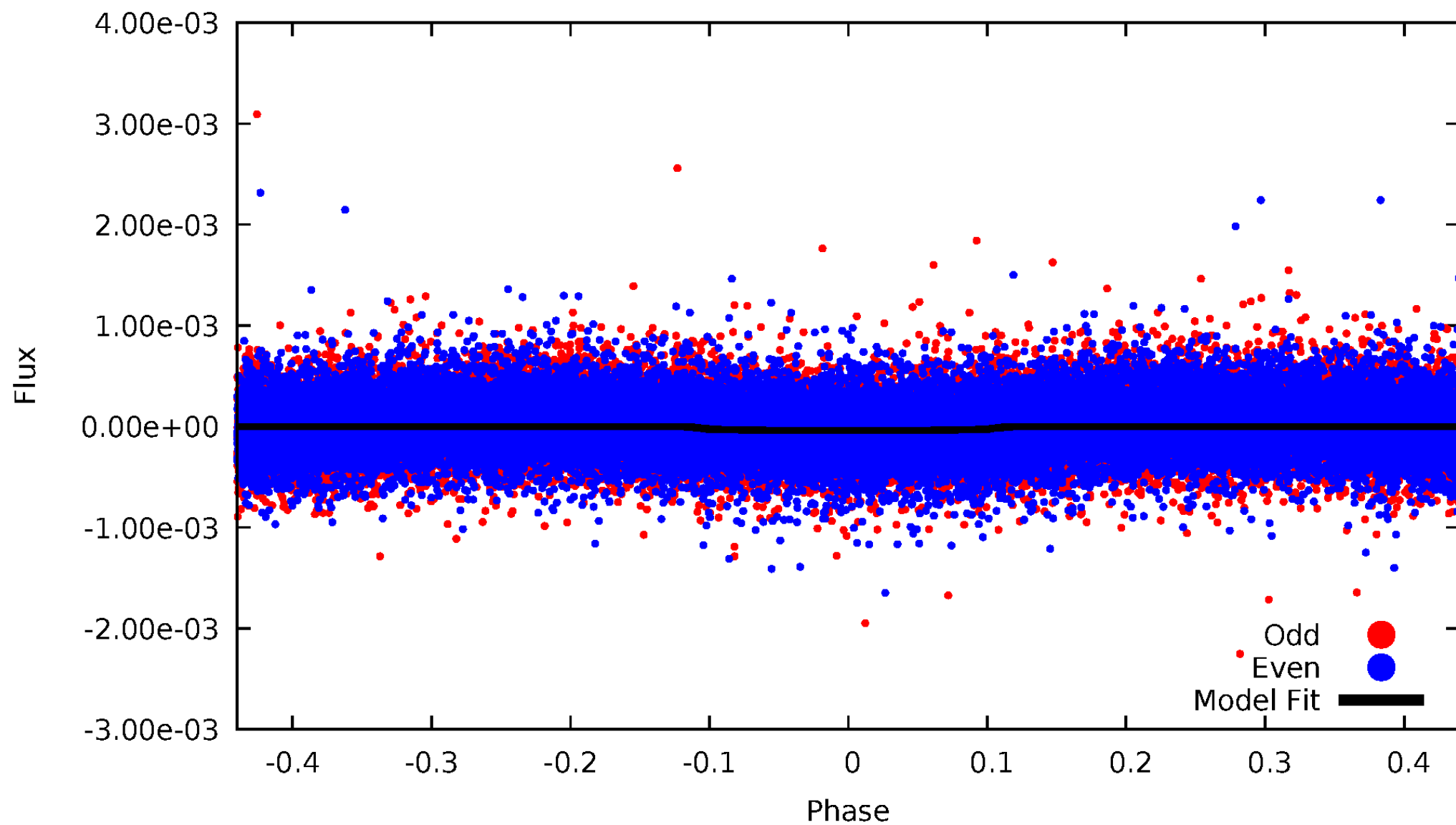


TCE 001434800-01



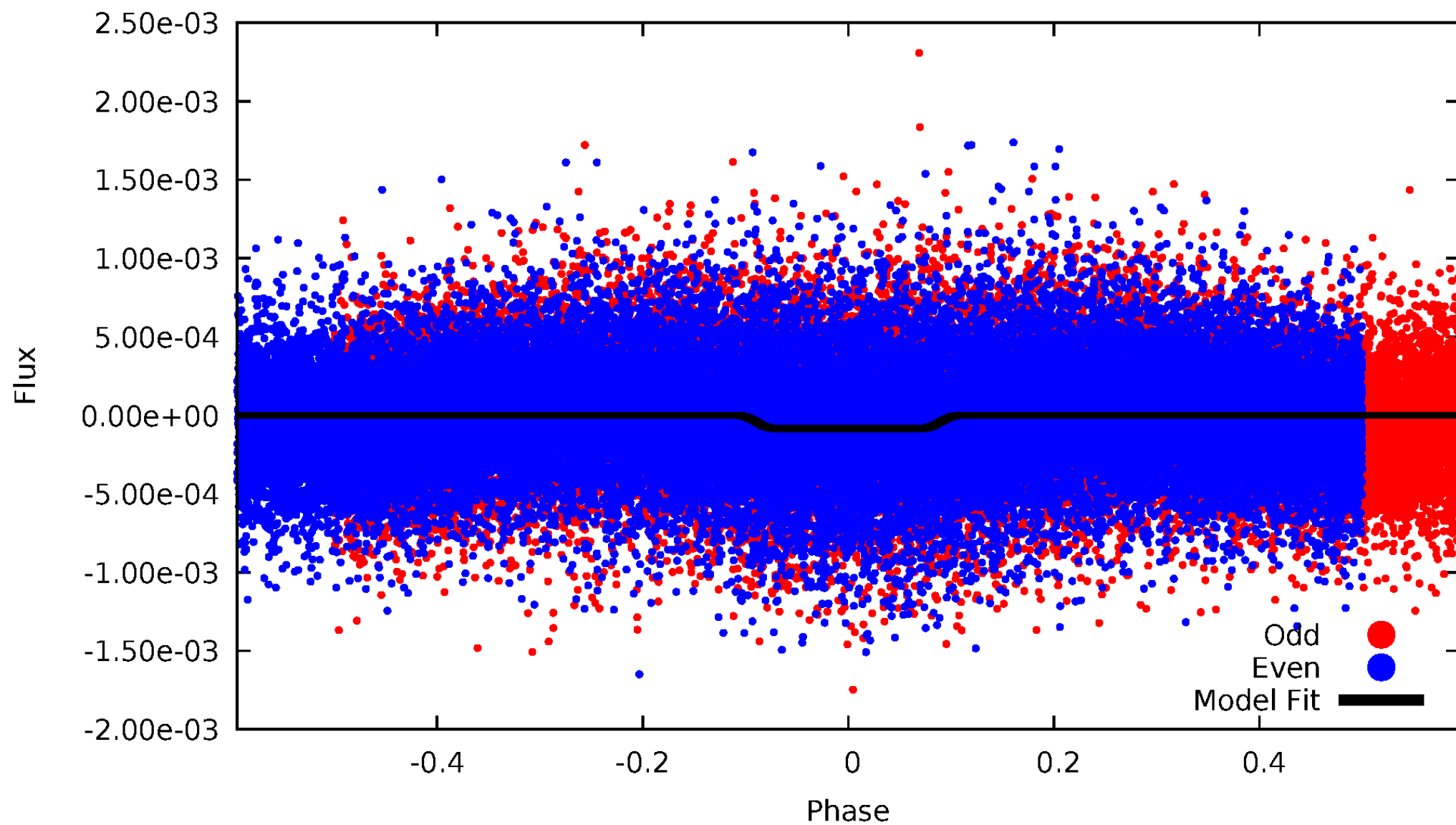
DV Odd/Even

TCE 001434800-01

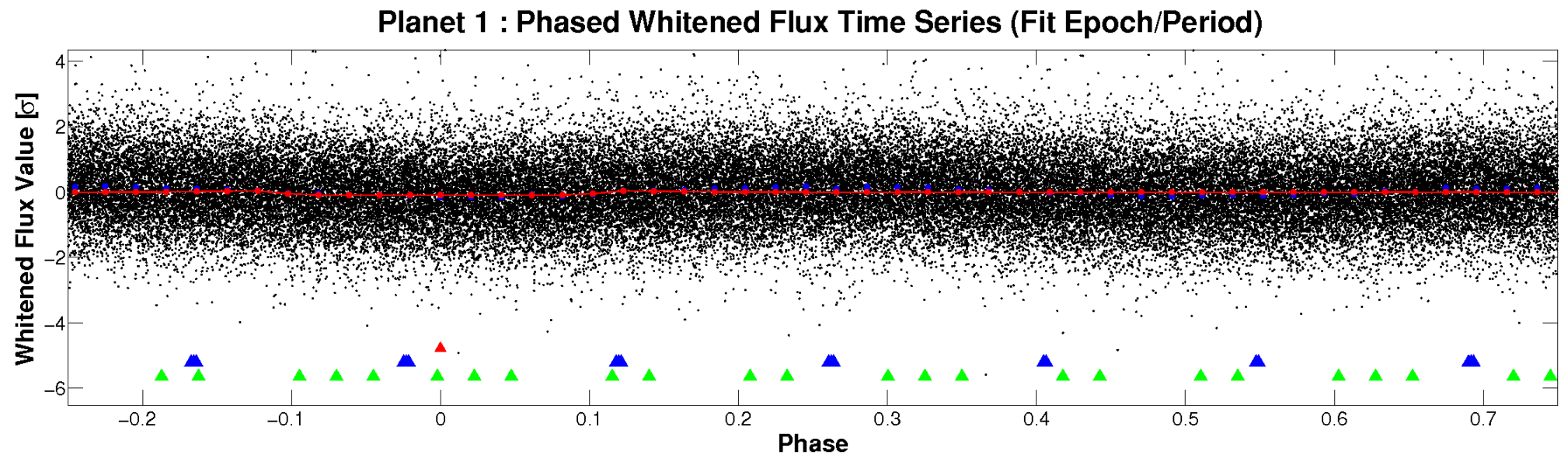
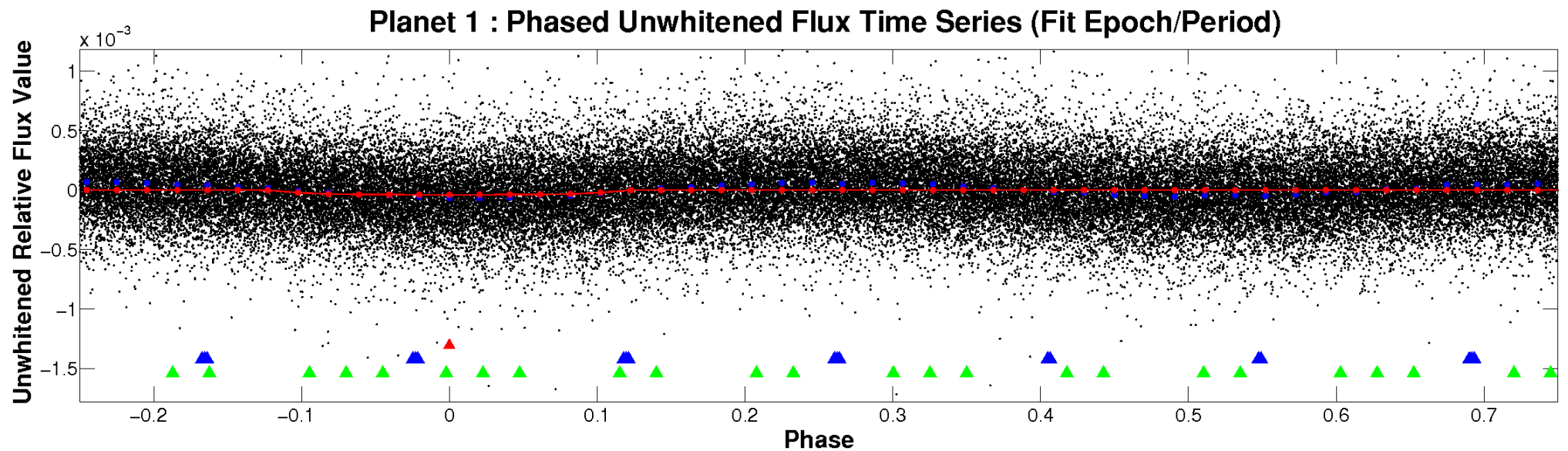


ALT Odd/Even

TCE 001434800-01

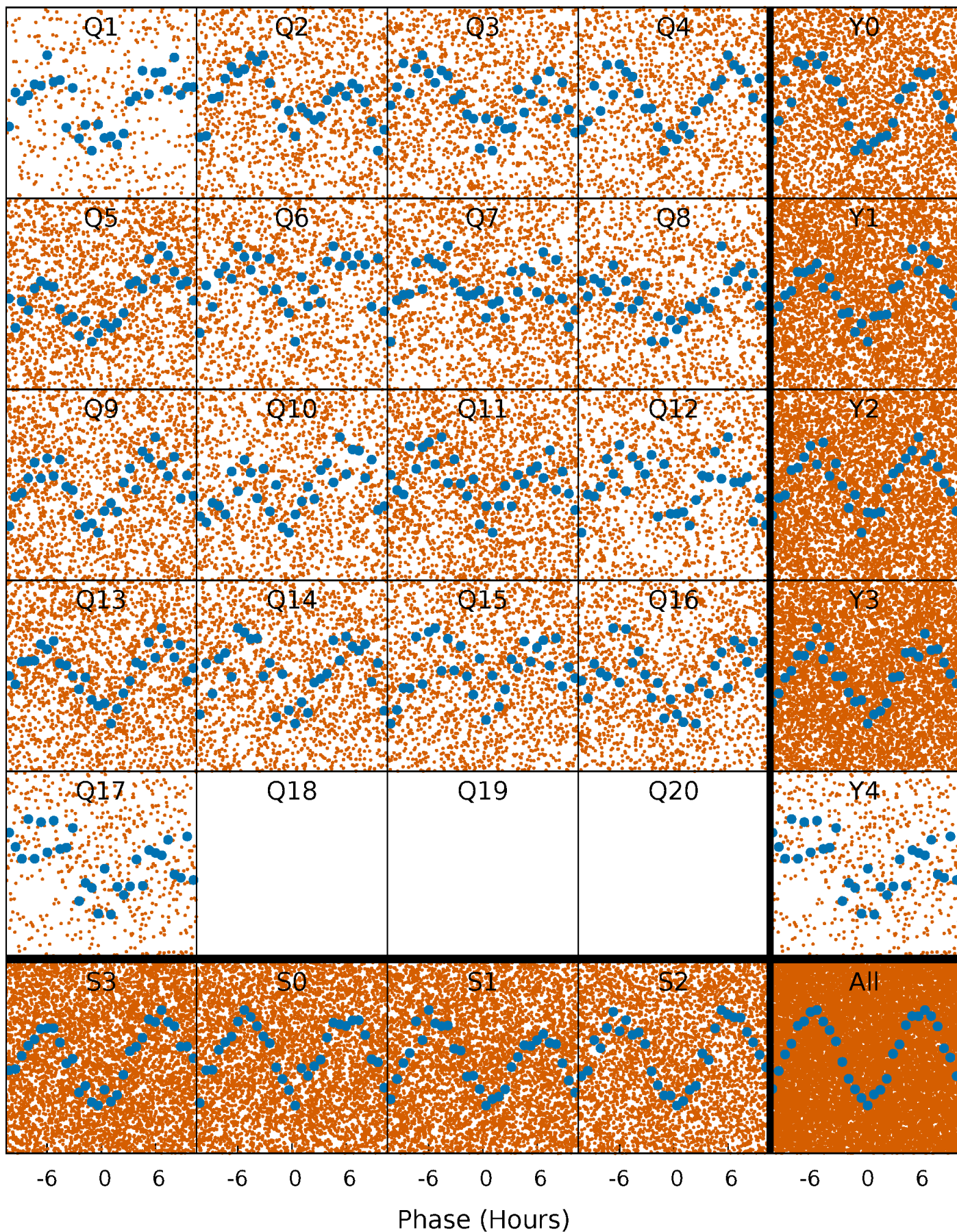


Non-Whitened Vs. Whitened Light Curve



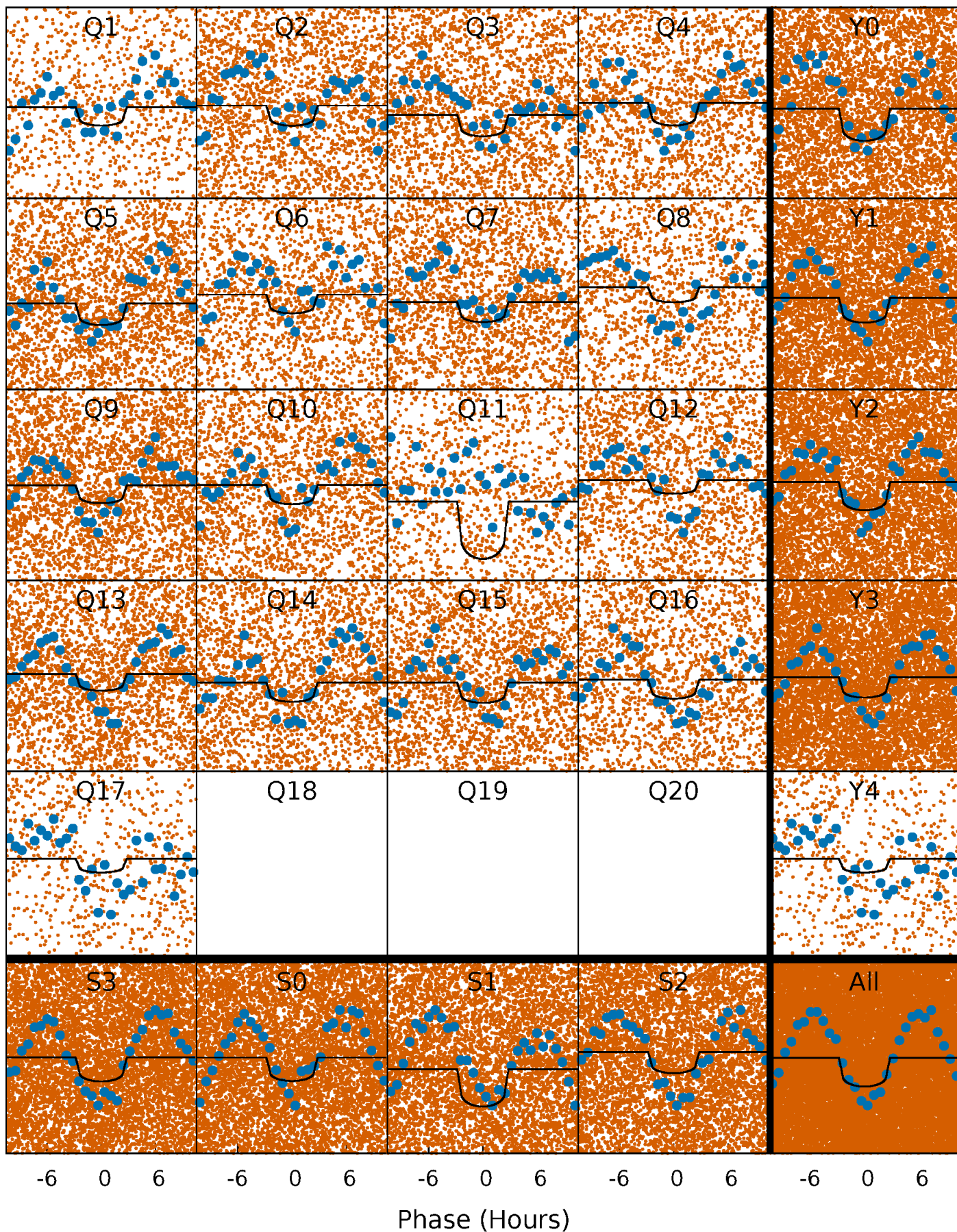
PDC Quarter-Phased Transit Curves

TCE 001434800-01 P= 0.999208 Days $T_0=131.740539$ (BKJD)



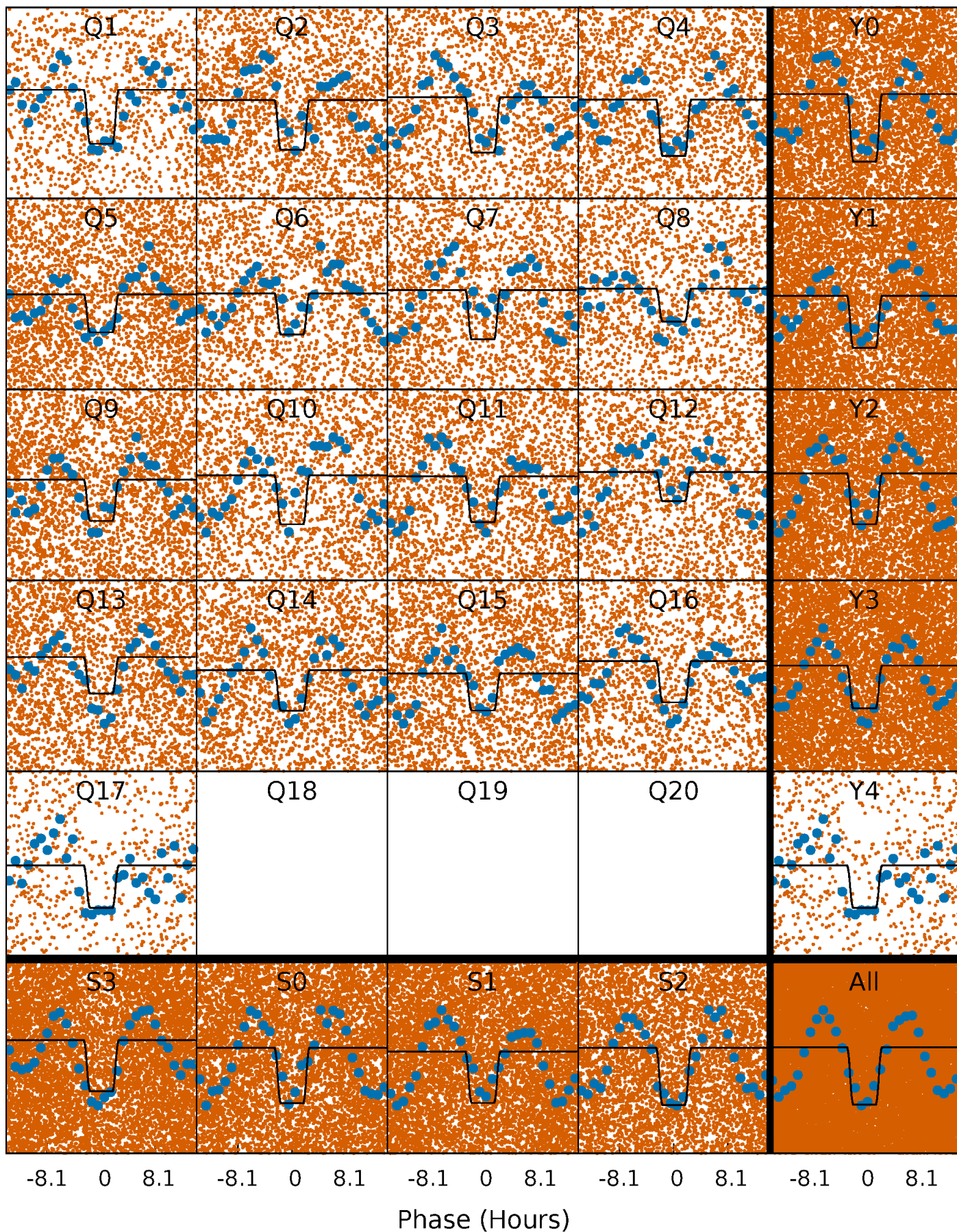
DV Quarter-Phased Transit Curves

TCE 001434800-01 P= 0.999208 Days $T_0=131.740539$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

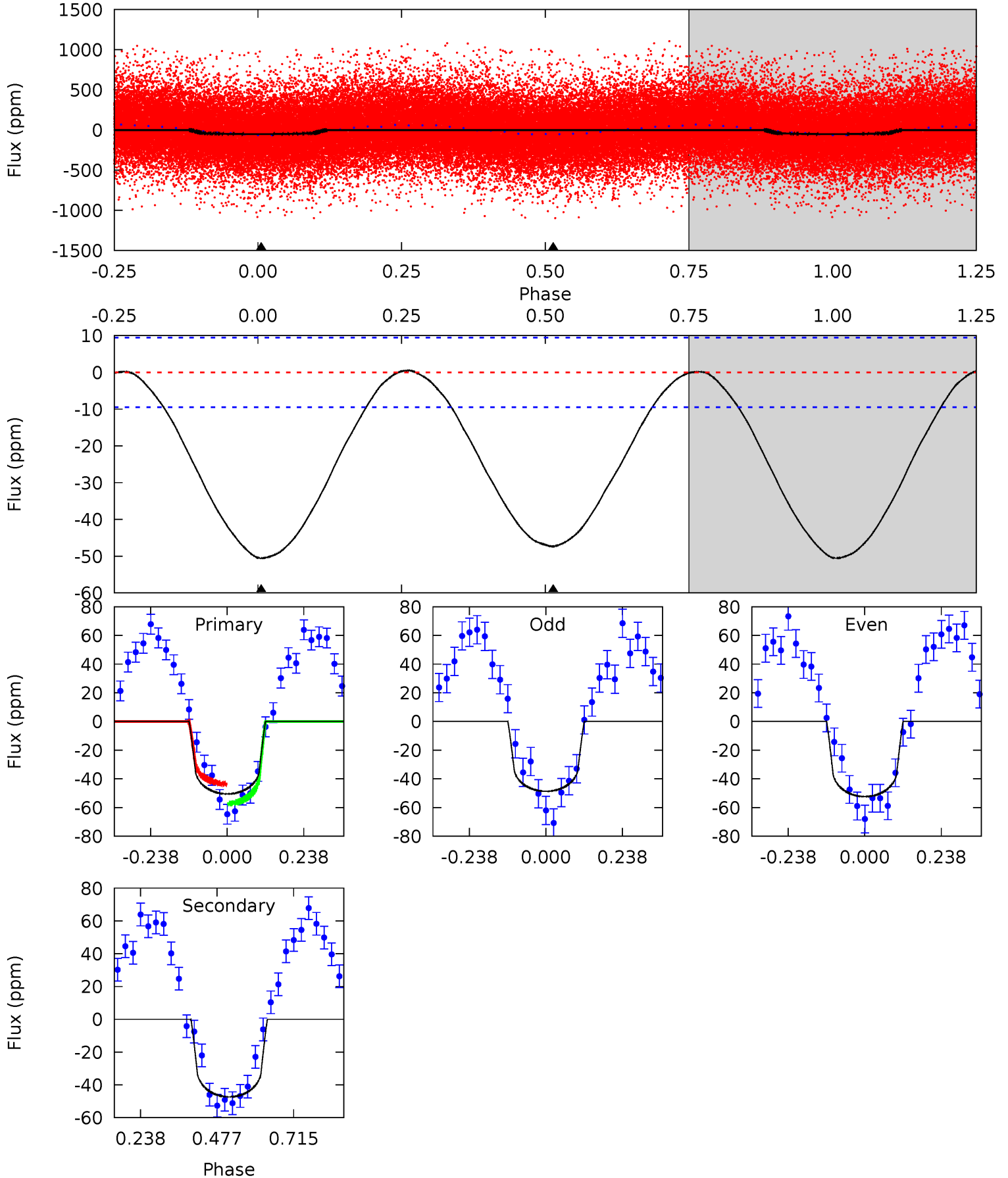
TCE 001434800-01 P= 0.999246 Days $T_0=131.724904$ (BKJD)



DV Model-Shift Uniqueness Test

001434800-01, P = 0.999208 Days, E = 130.741331 Days

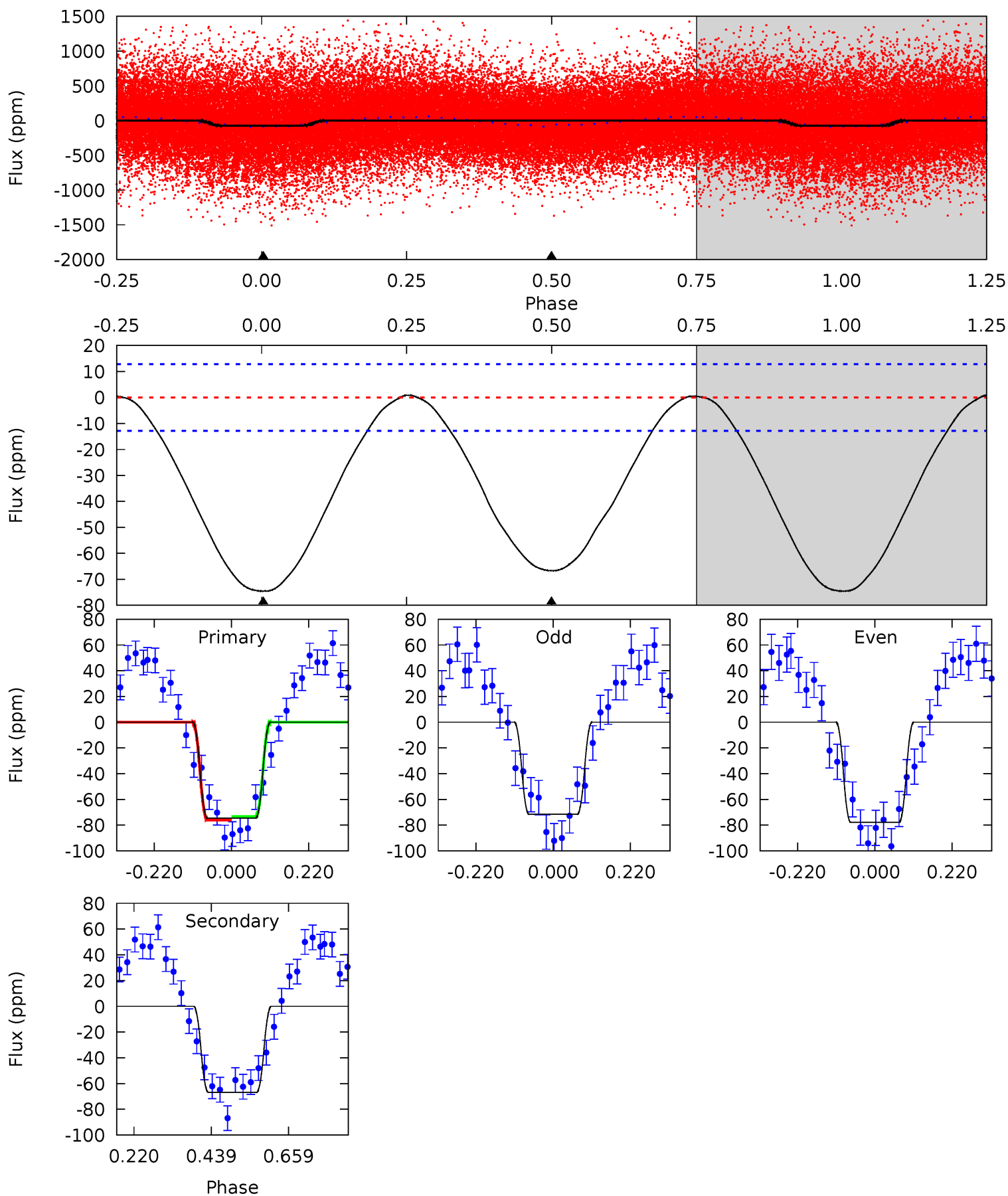
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.4	21.9	0	0	4.38	1.18	0.22	23.4	23.4	21.9	21.9	0.85	0.99	0.01	3.20



Alt Model-Shift Uniqueness Test

001434800-01, P = 0.999246 Days, E = 130.725658 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.5	22.8	0	0	4.40	1.23	0.27	25.5	25.5	22.8	22.8	1.08	0.90	0.01	0.43



Stellar Parameters For KIC 001434800

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6814^{+189}_{-284}	$4.128^{+0.190}_{-0.171}$	$-0.240^{+0.250}_{-0.300}$	$1.643^{+0.492}_{-0.447}$	$1.329^{+0.194}_{-0.237}$	$0.422^{+0.481}_{-0.194}$
	+3%/-4%	+5%/-4%	+104%/-125%	+30%/-27%	+15%/-18%	+114%/-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 001434800-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-47 ± 2	$1.08^{+0.51}_{-0.47}$	3655^{+274}_{-291}	7193^{+3063}_{-1290}	10^{+21}_{-6}
Alt.	-67 ± 3	$1.68^{+0.53}_{-0.55}$	3662^{+281}_{-274}	6265^{+1365}_{-792}	$6.080^{+6.903}_{-2.675}$

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 $A_{obs} \gg 1.0$

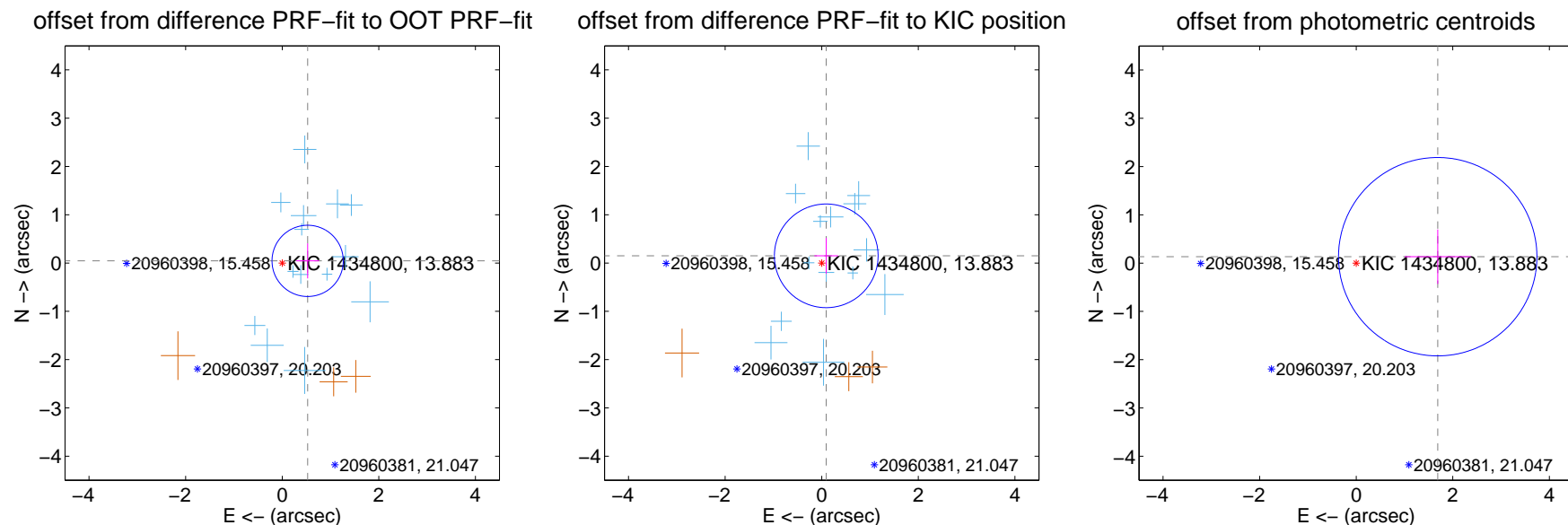
DV Centroid Data

Supplemental centroid analysis for 001434800-01. Kepler magnitude: 13.88. Transit SNR 10.85

There are 14 quarters with good PRF difference image offsets

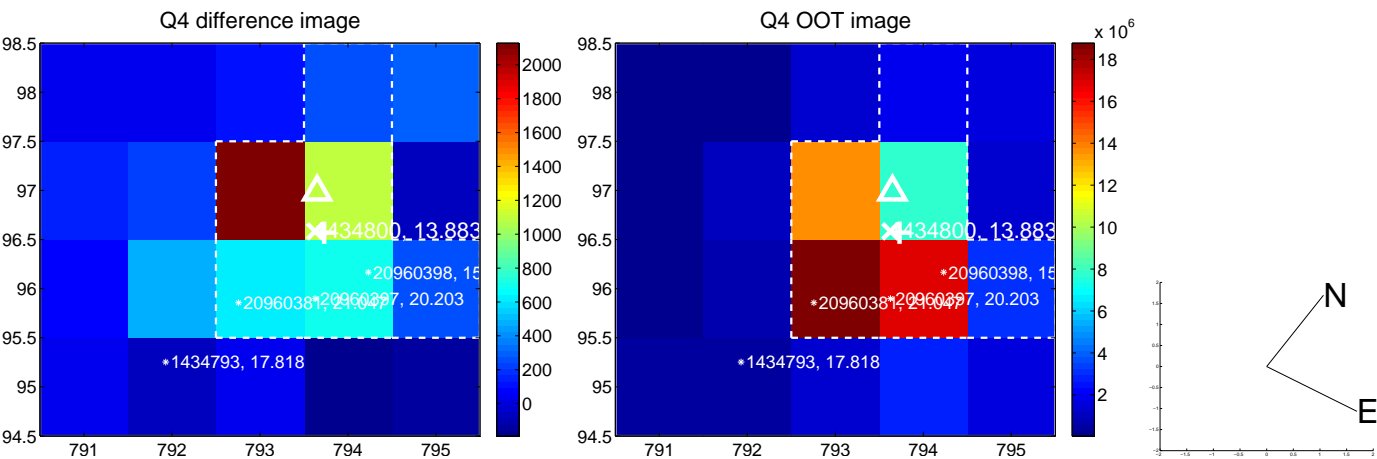
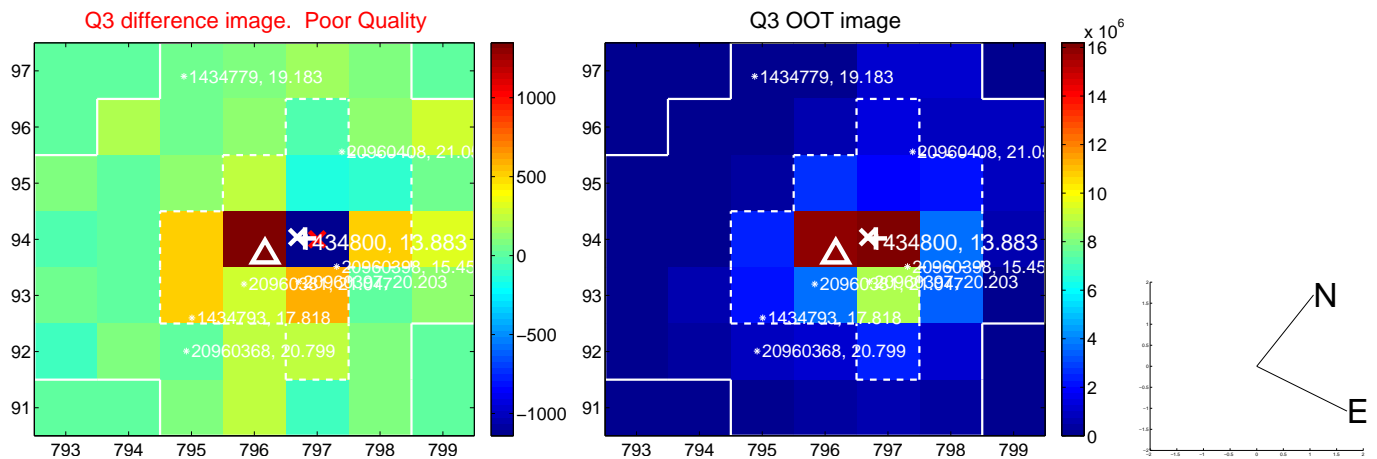
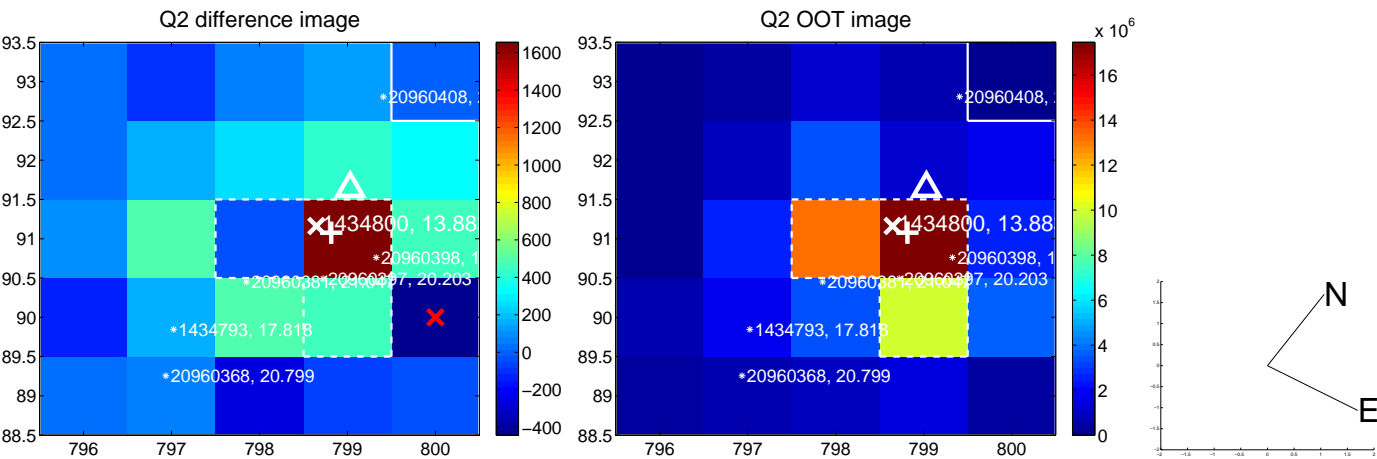
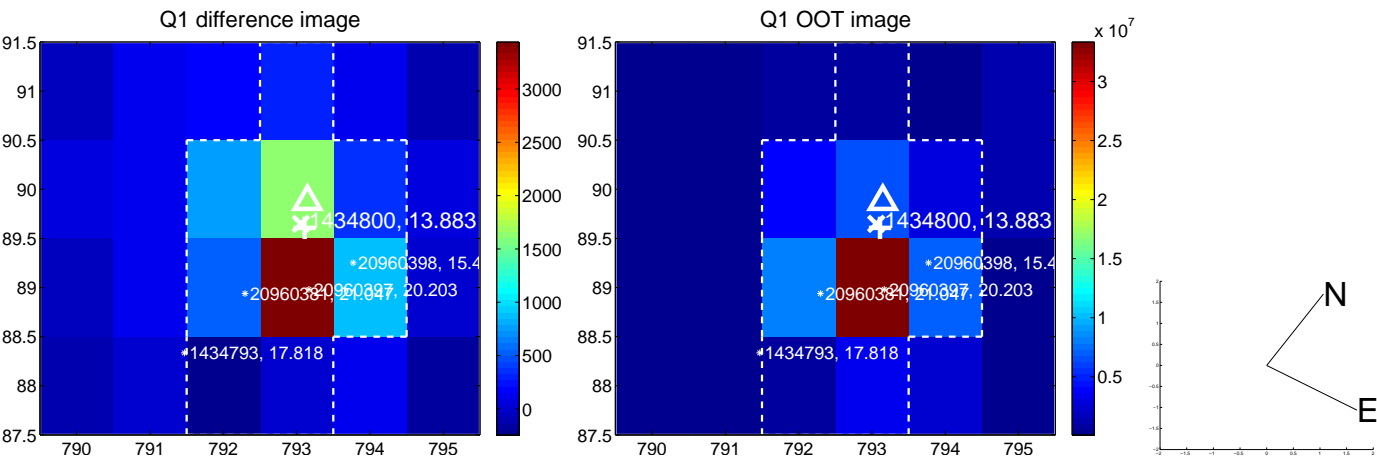
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.528 ± 0.246	2.15	-0.526 ± 0.240	0.045 ± 0.362
PRF-fit source offset from KIC position	0.176 ± 0.358	0.49	-0.094 ± 0.245	0.149 ± 0.369
photometric centroid source offset	1.69 ± 0.68	2.47	-1.69 ± 0.69	0.13 ± 0.56

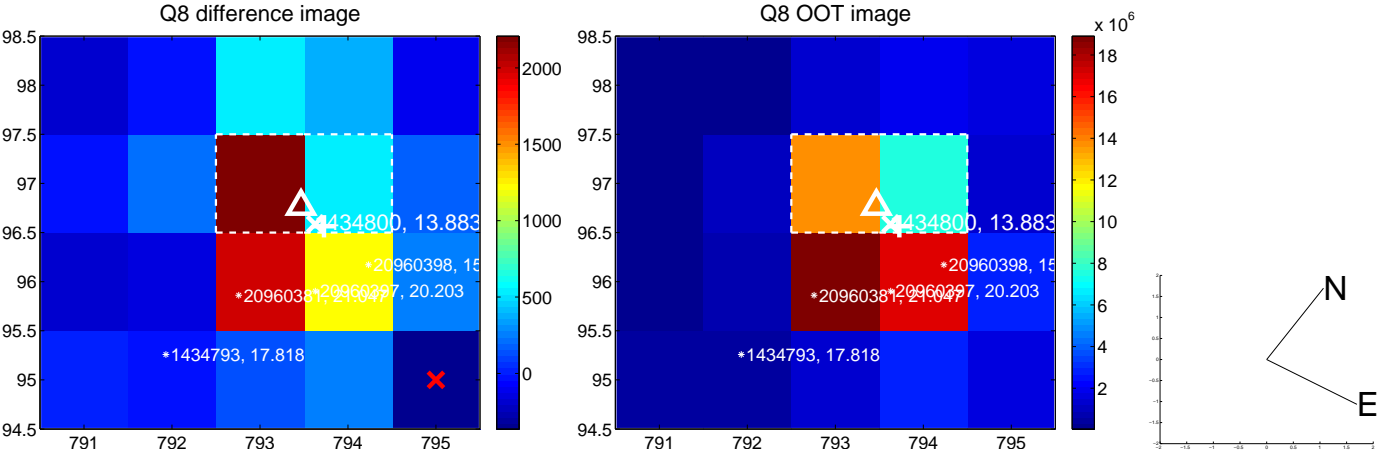
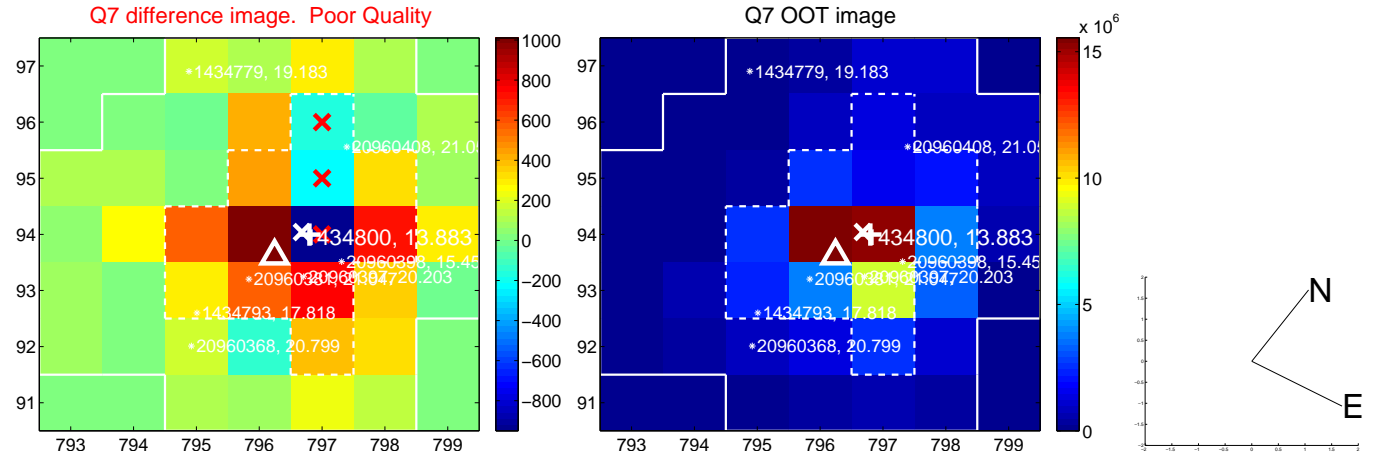
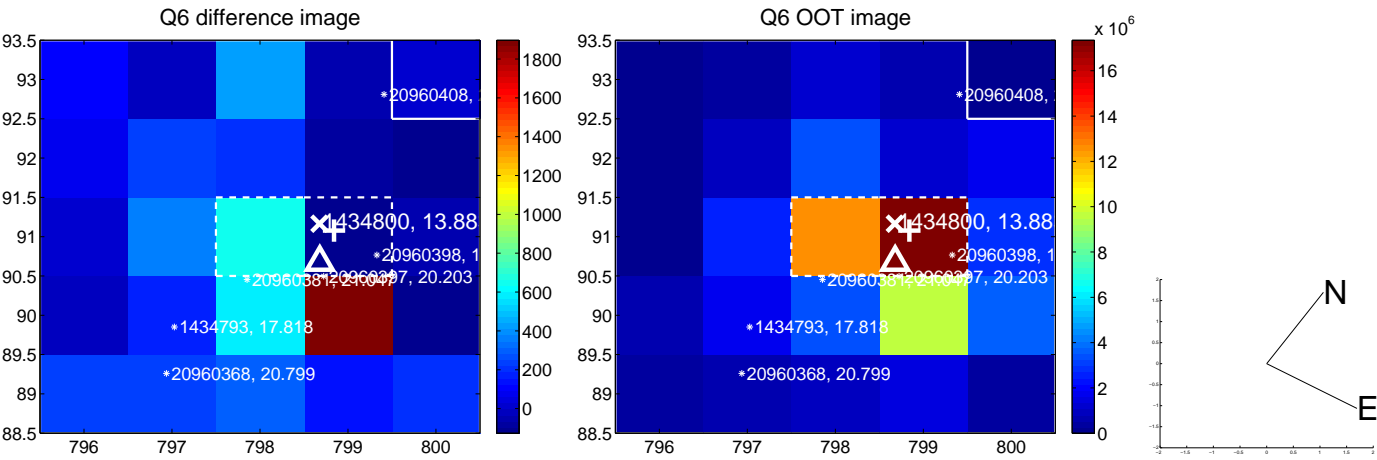
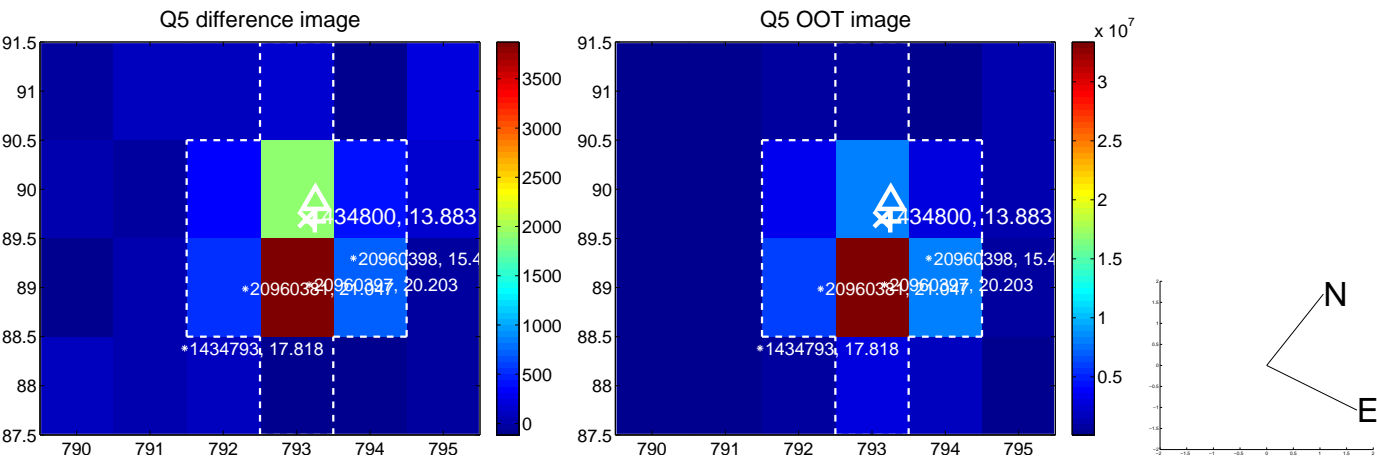


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

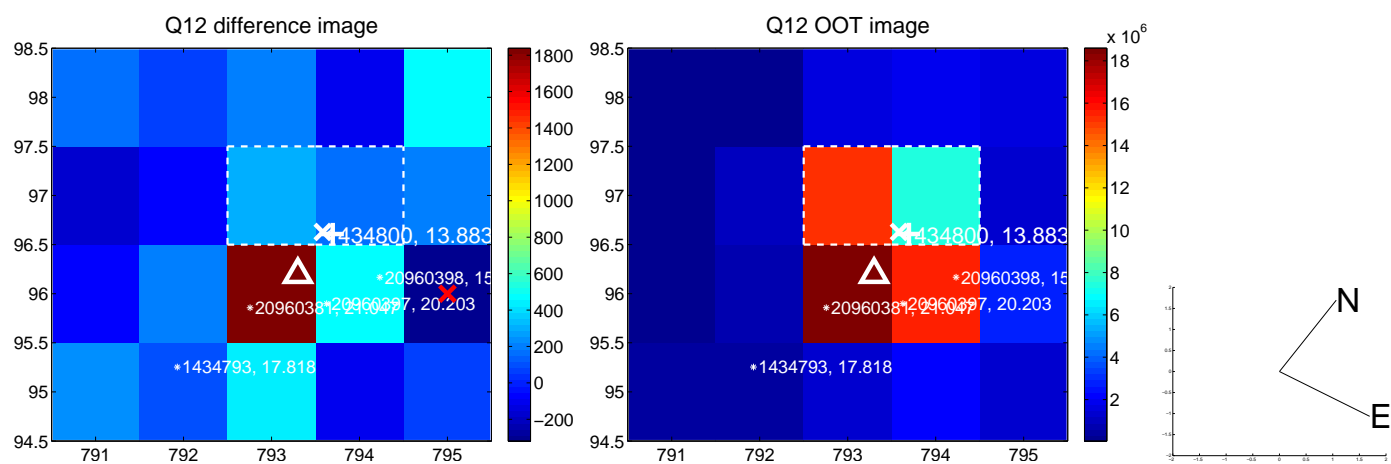
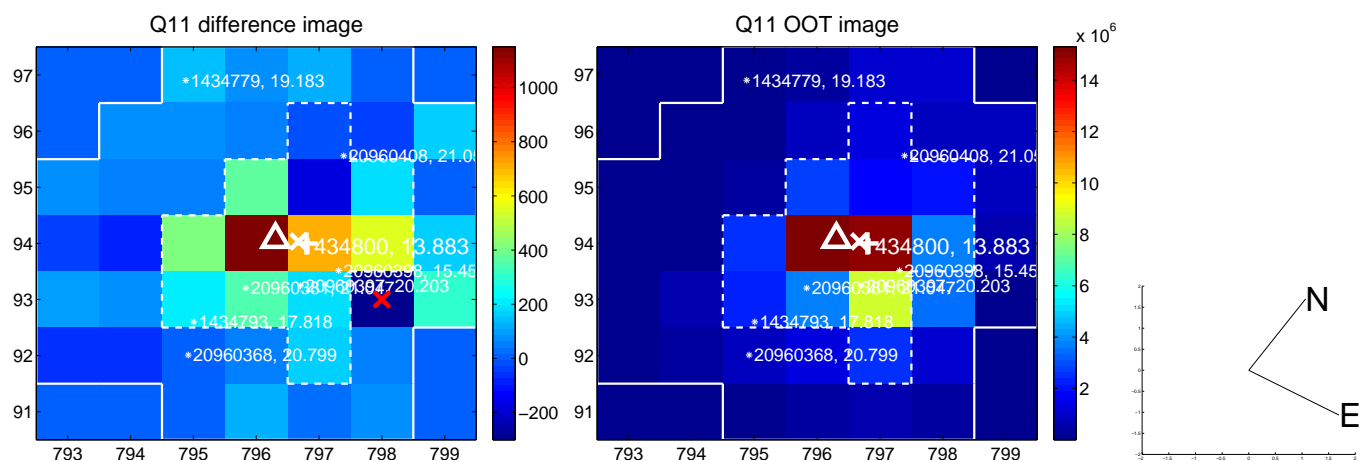
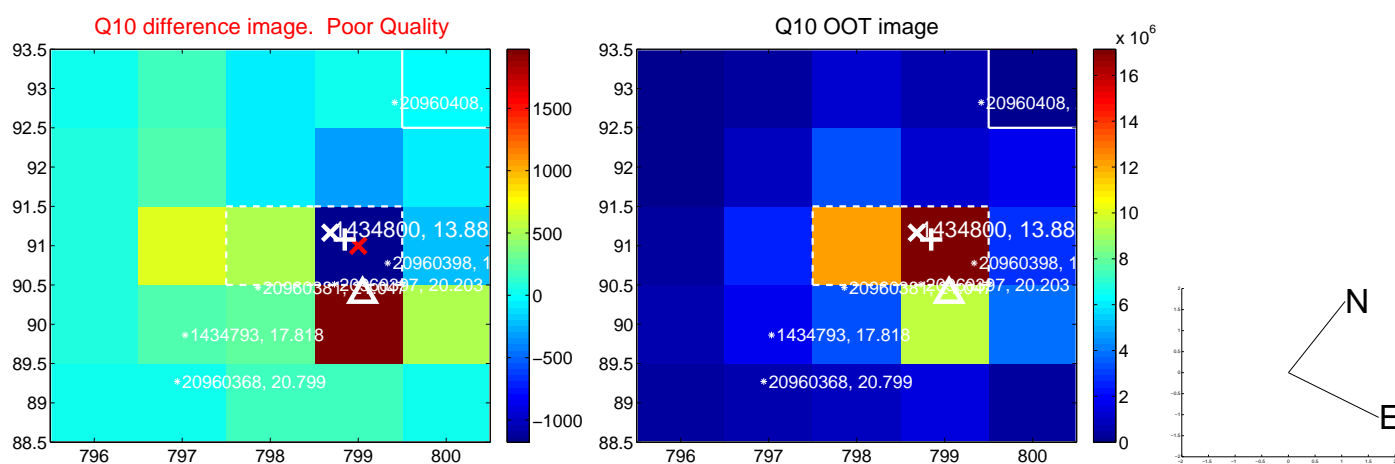
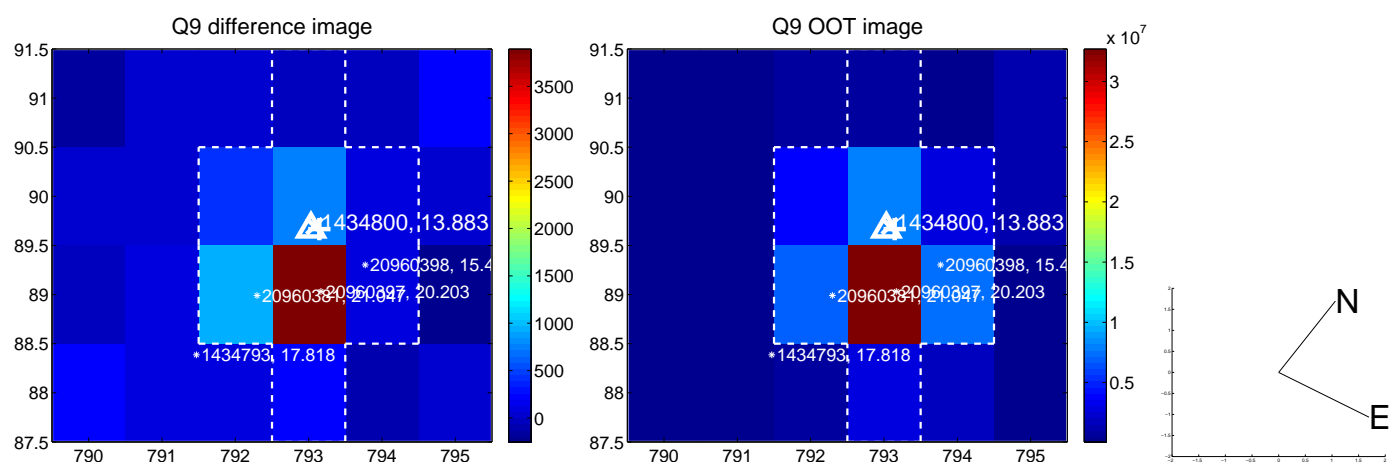
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



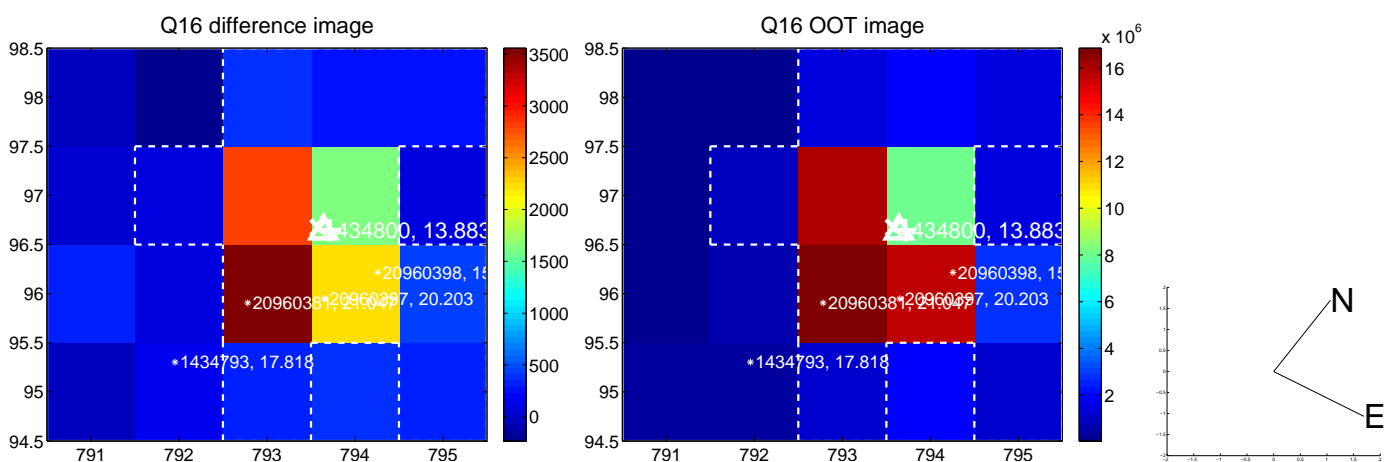
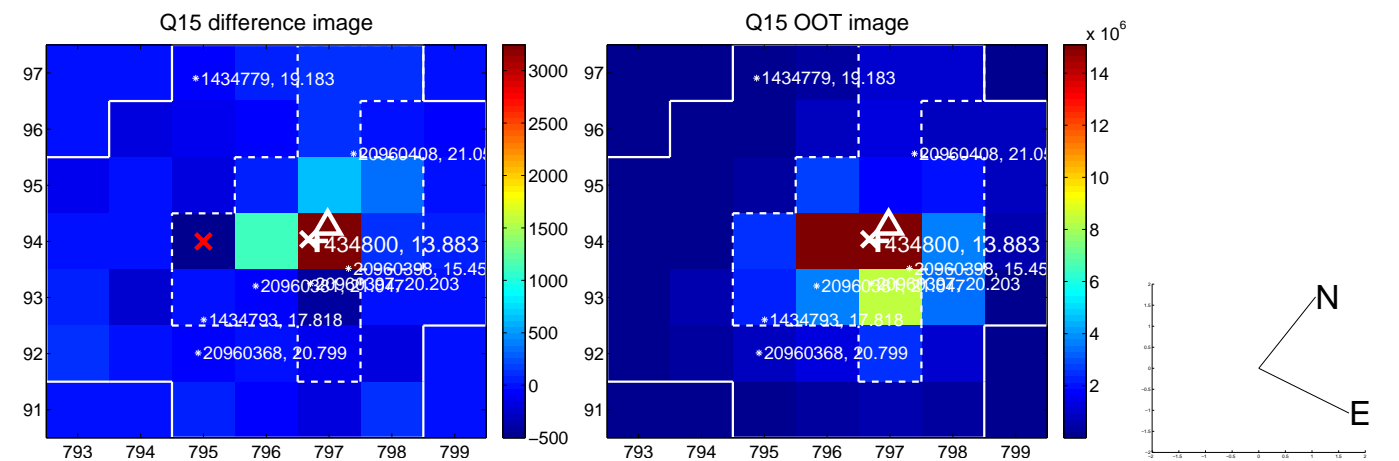
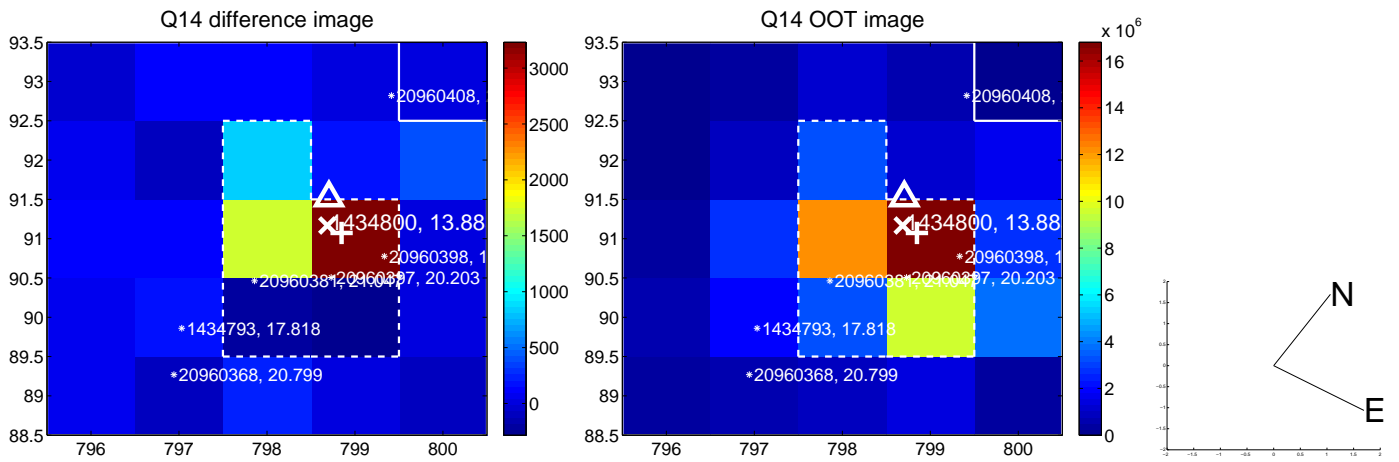
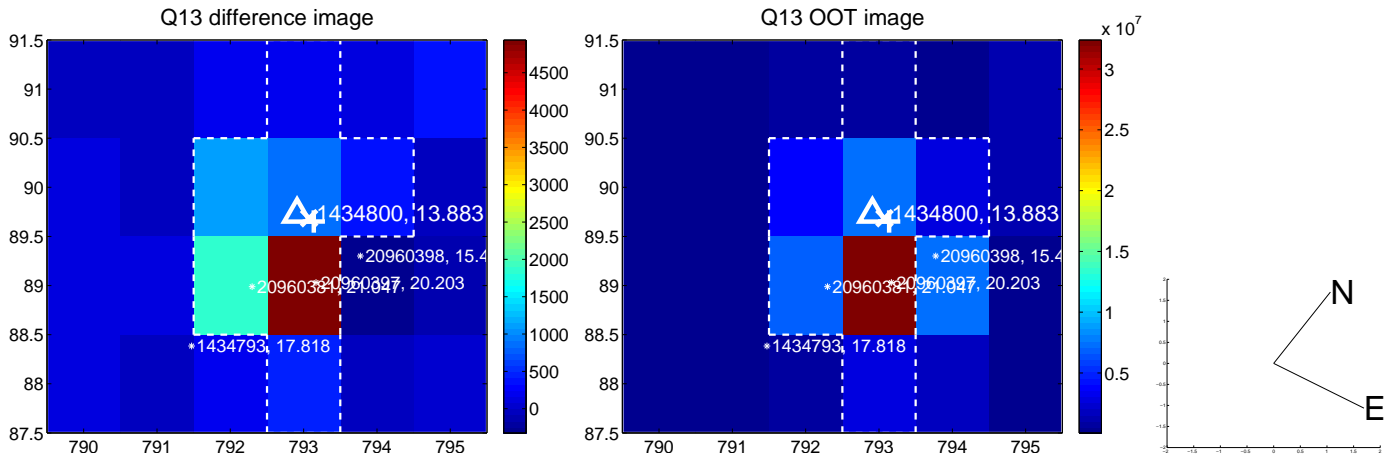
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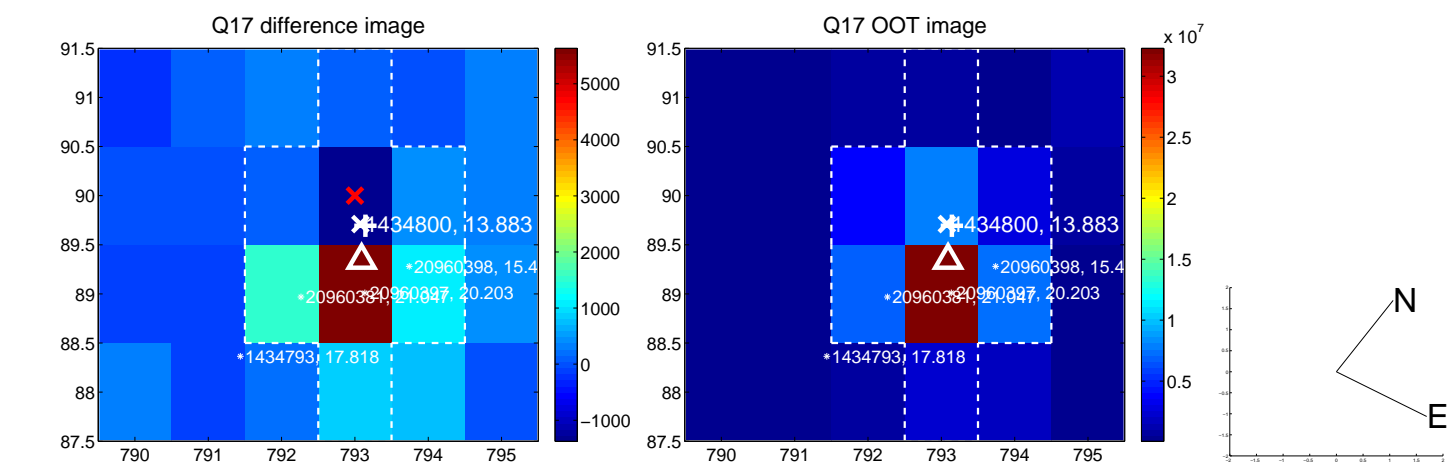
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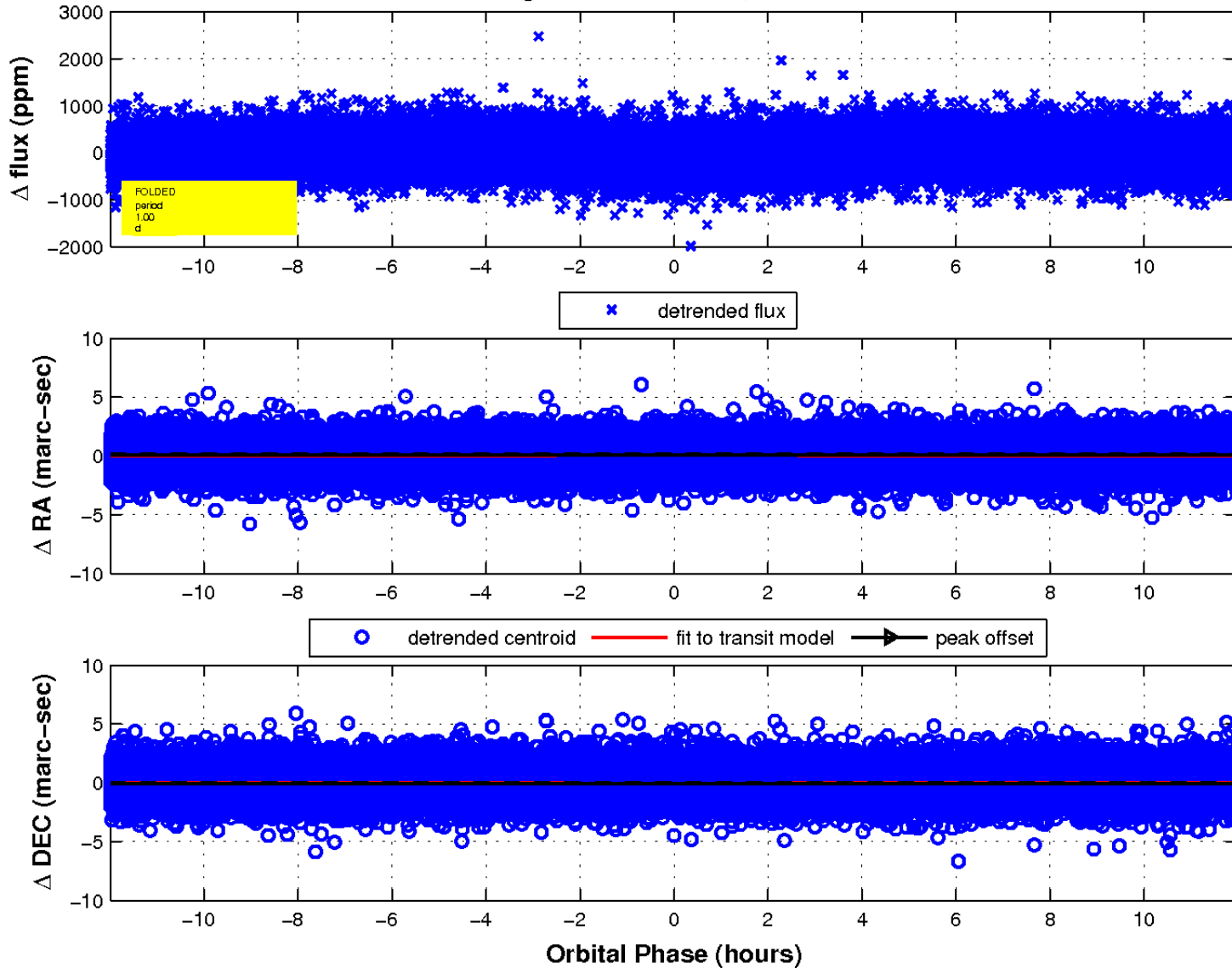
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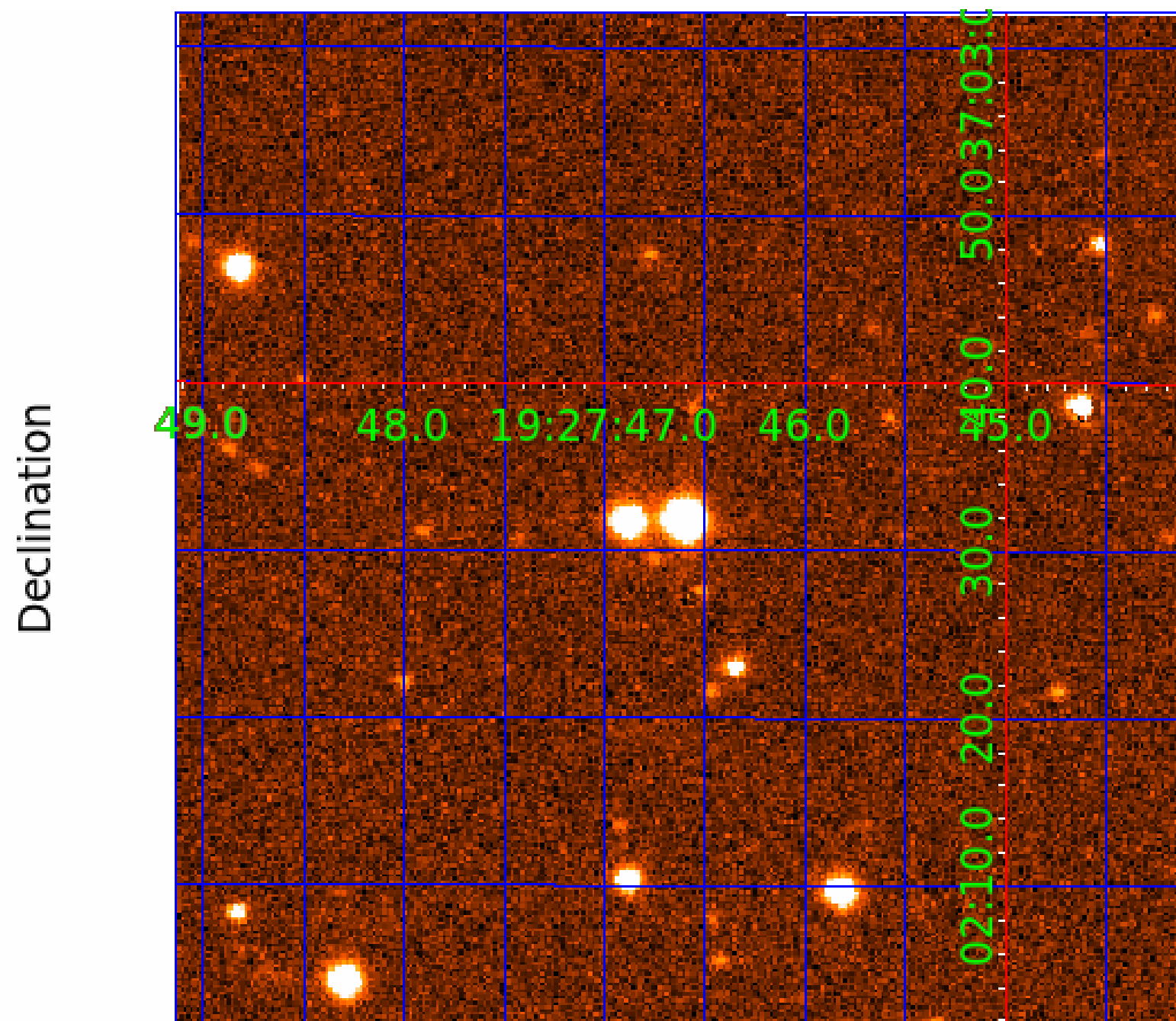
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 3



UKIRT Image



KIC 001434800

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})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001434800-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
001434800-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_MEAS
001434800-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

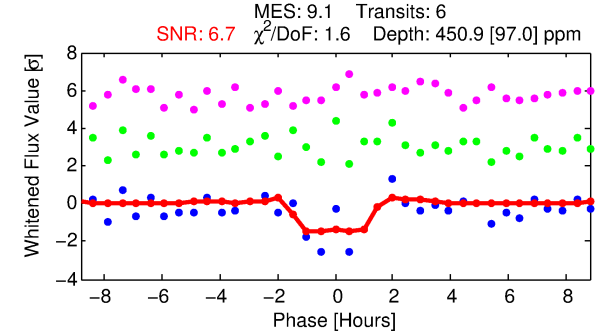
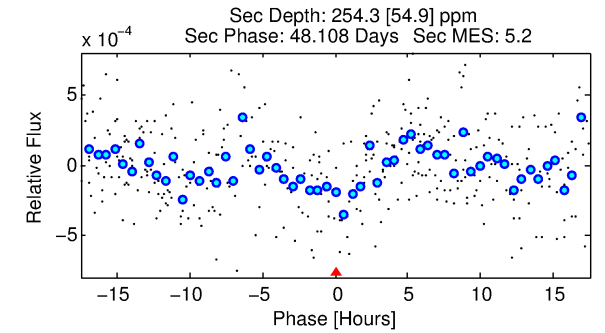
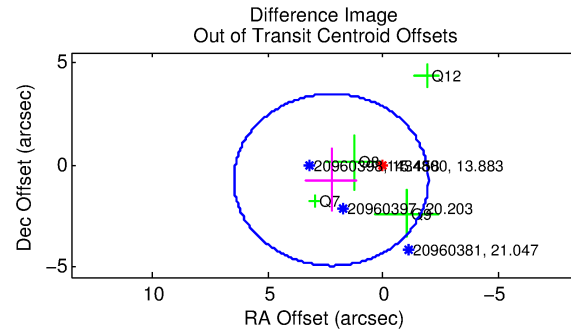
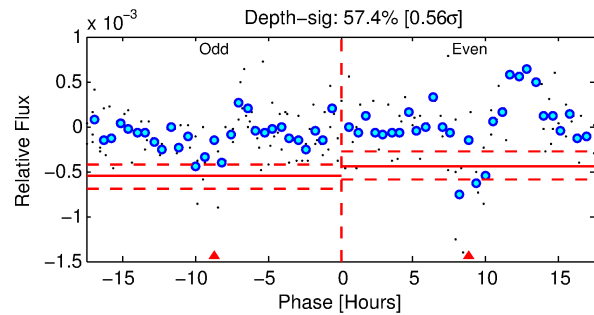
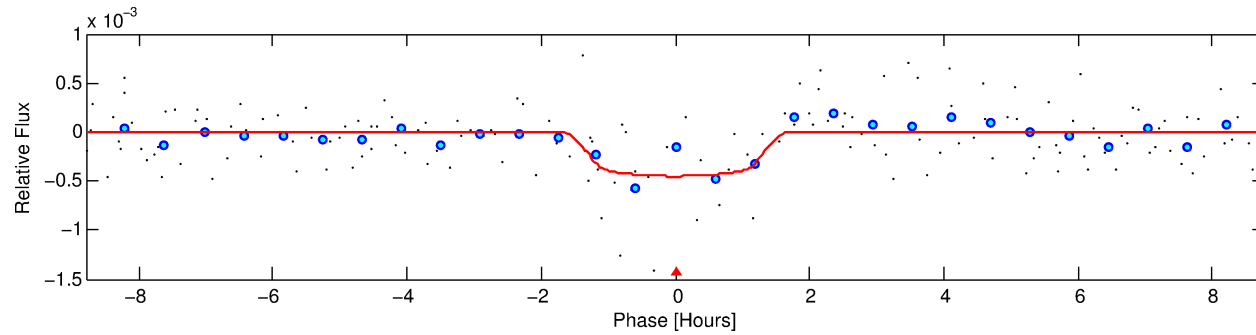
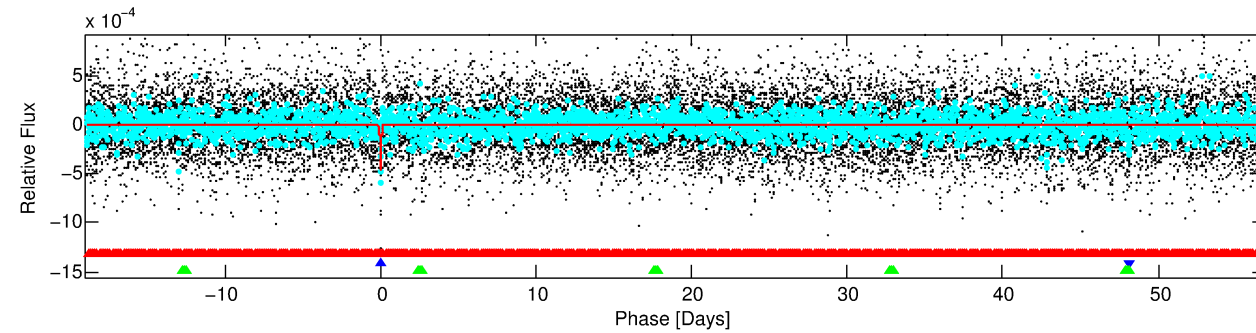
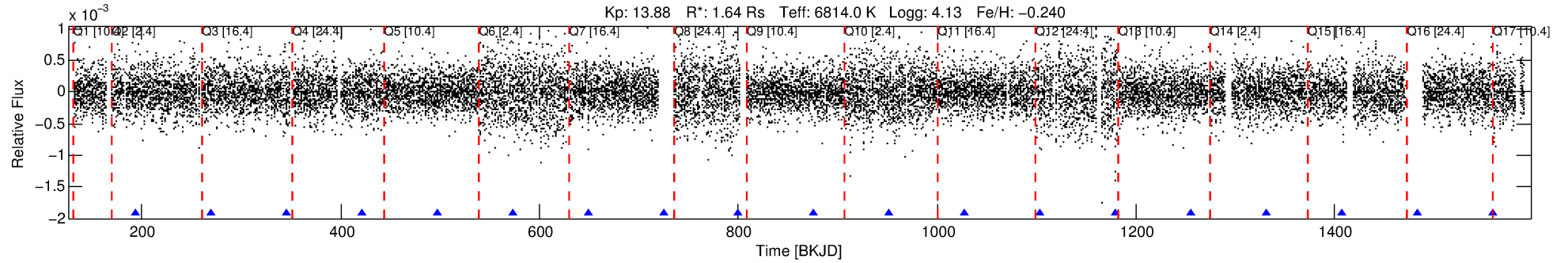
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001434800-02

No Significant Match Found

DV One-Page Summary

KIC: 1434800 Candidate: 2 of 3 Period: 75.797 d



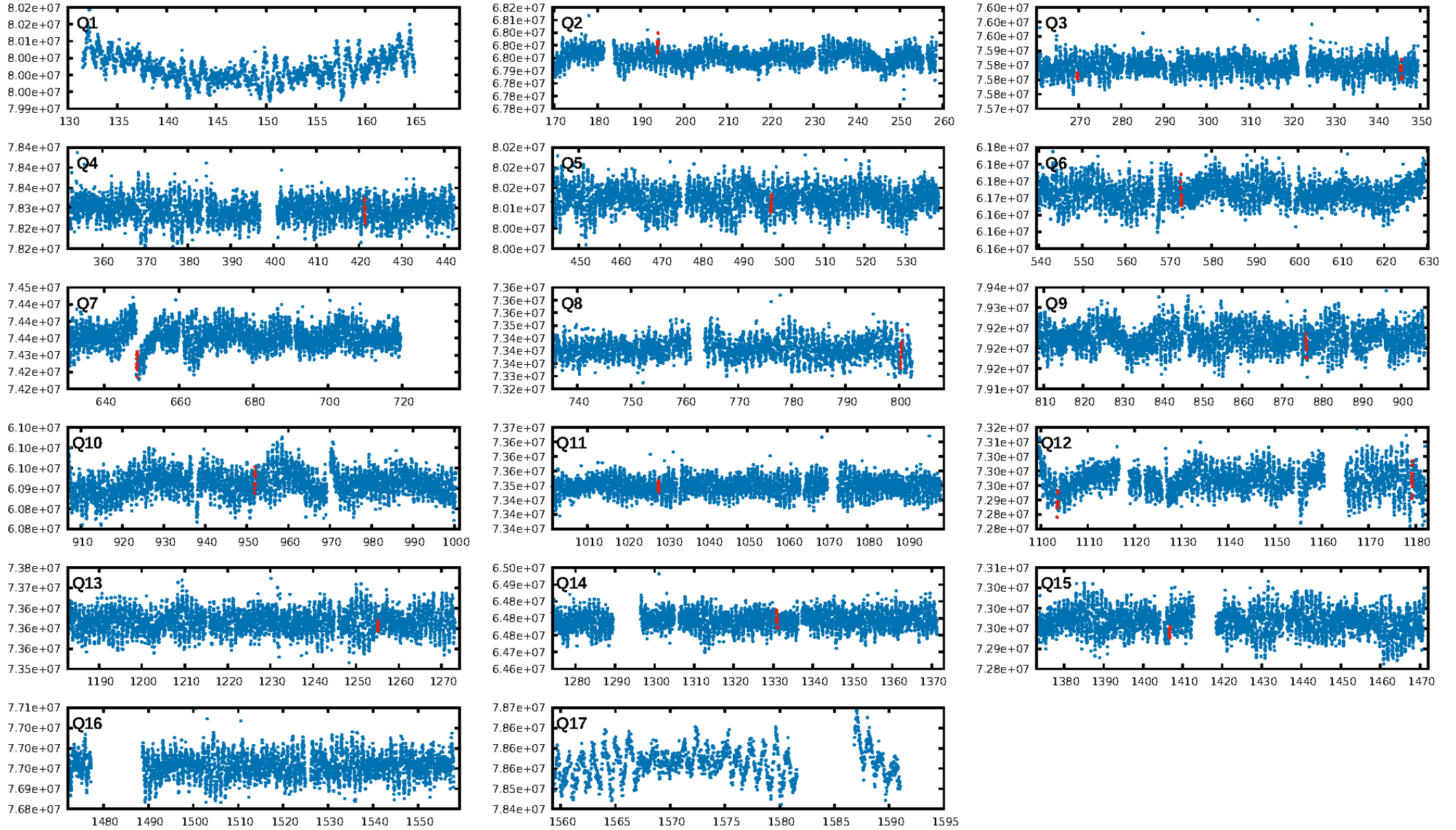
DV Fit Results:

Period = 75.79734 [0.00152] d
Epoch = 193.9518 [0.0123] BKJD
Rp/R* = 0.0217 [0.0171]
a/R* = 119.42 [540.44]
b = 0.82 [1.77]
Seff = 35.21 [13.76]
Teff = 621 [61] K
Rp = 3.89 [3.27] Re
a = 0.3848 [0.0951] AU
Ag = 1368.72 [2224.55] [0.61 σ]
Teffp = 5842 [2329] K [2.24 σ]

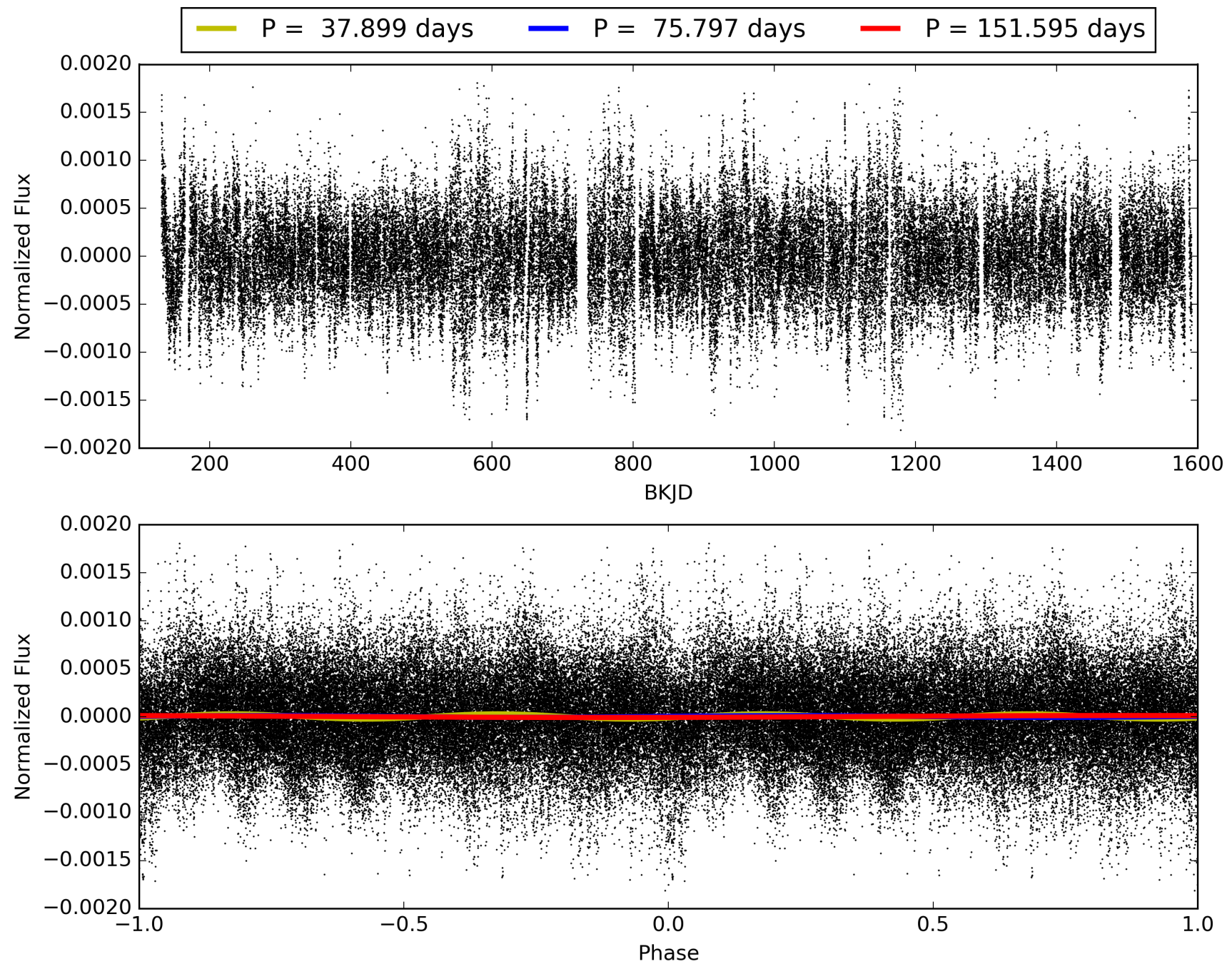
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [55.97 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.6%
ModelChiSquareGof-sig: 74.5%
Bootstrap-pfa: 1.58e-11
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -0.3332
Centroid-sig: 91.1%
Centroid-so: 1.404 arcsec [2.12 σ]
OotOffset-rm: 2.369 arcsec [1.69 σ]
KicOffset-rm: 2.862 arcsec [2.41 σ]
OotOffset-st: 0/1/2/1 [4]
KicOffset-st: 0/1/2/1 [4]
DiffImageQuality-fgm: 0.25 [1/4]
DiffImageOverlap-fno: 0.14 [2/14]

TCE 001434800-02, PDC Light Curves

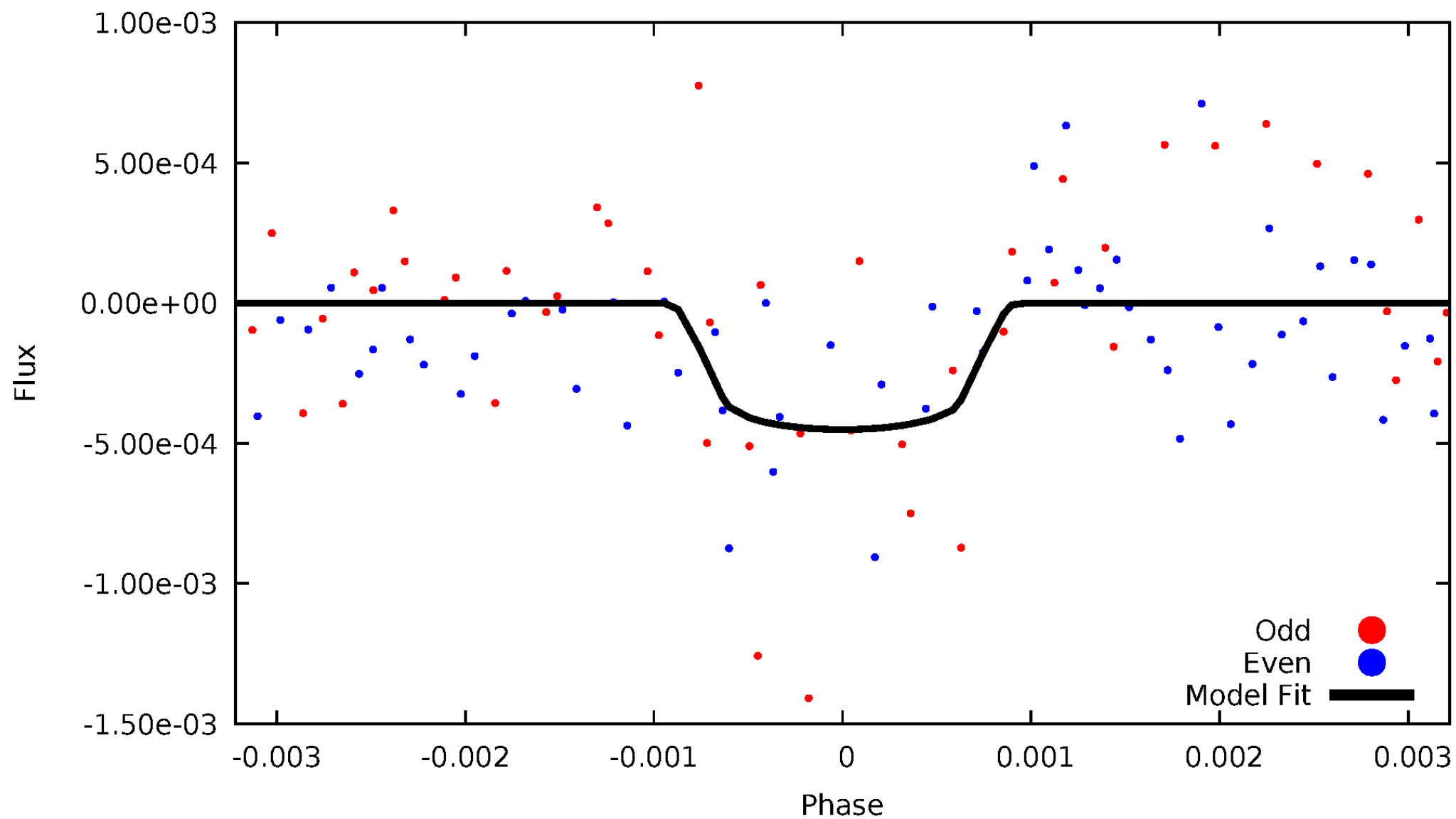


TCE 001434800-02



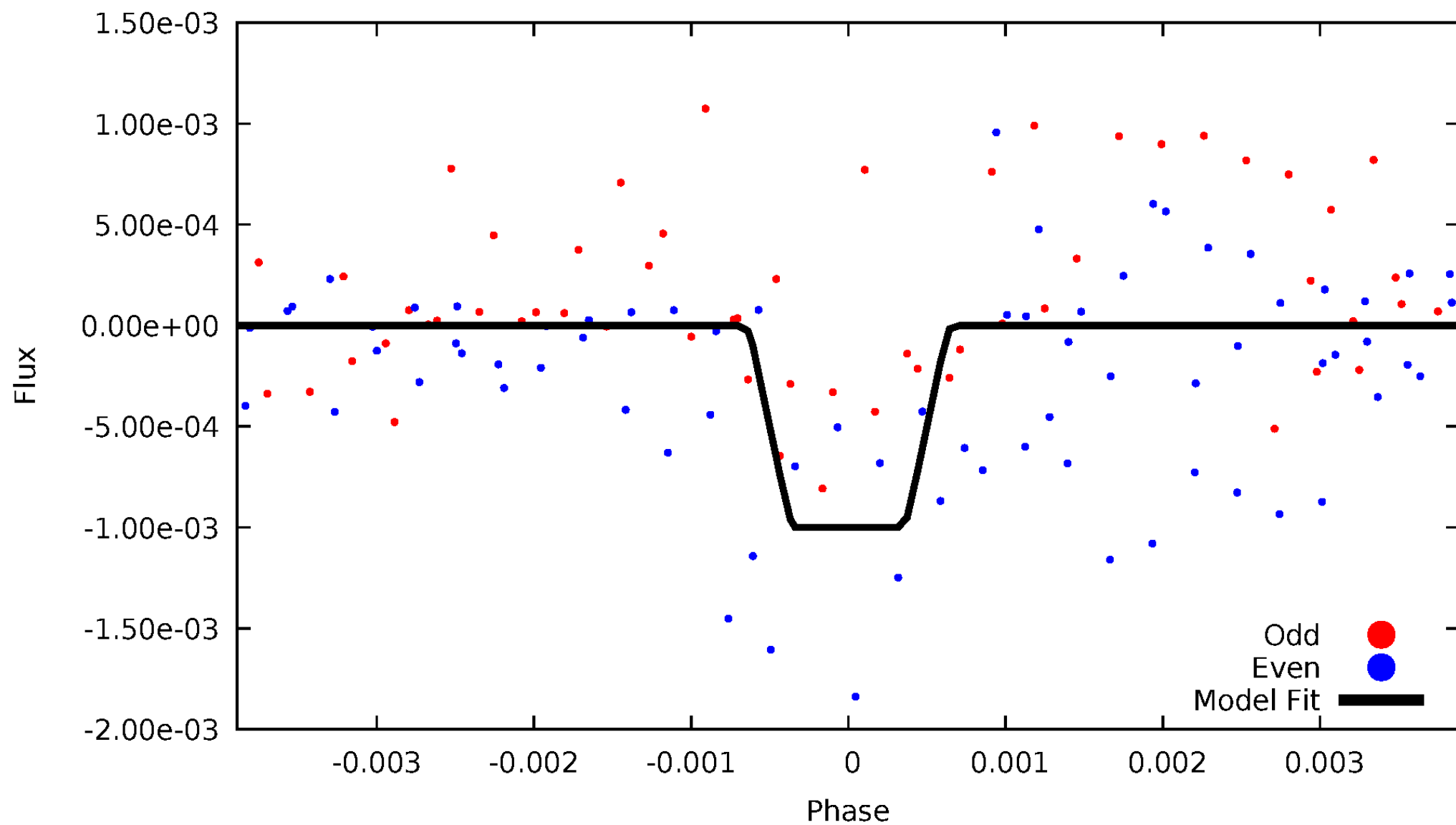
DV Odd/Even

TCE 001434800-02



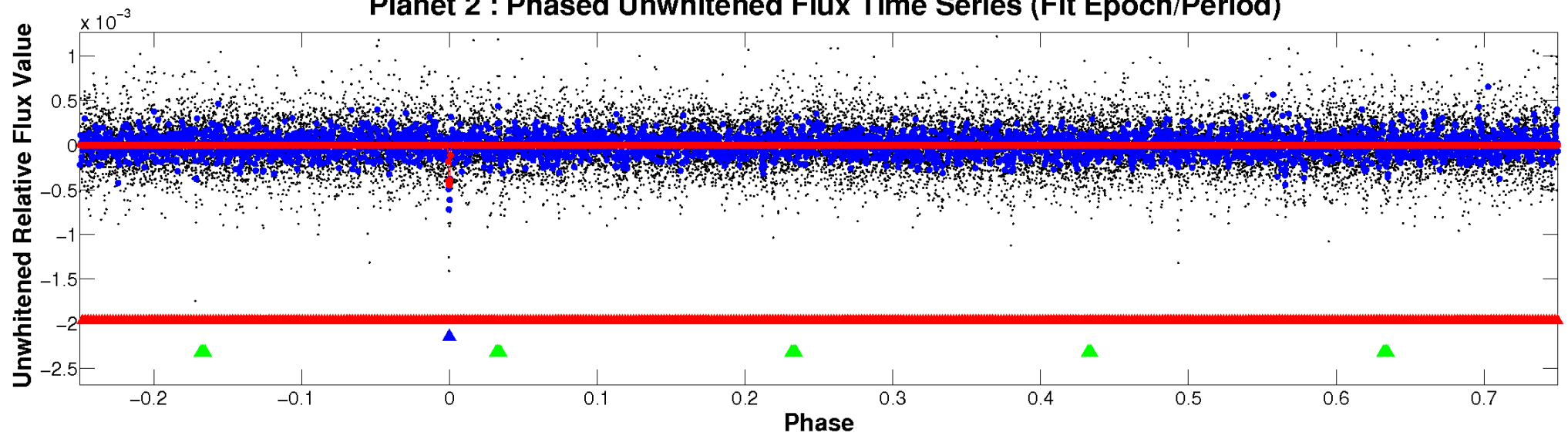
ALT Odd/Even

TCE 001434800-02

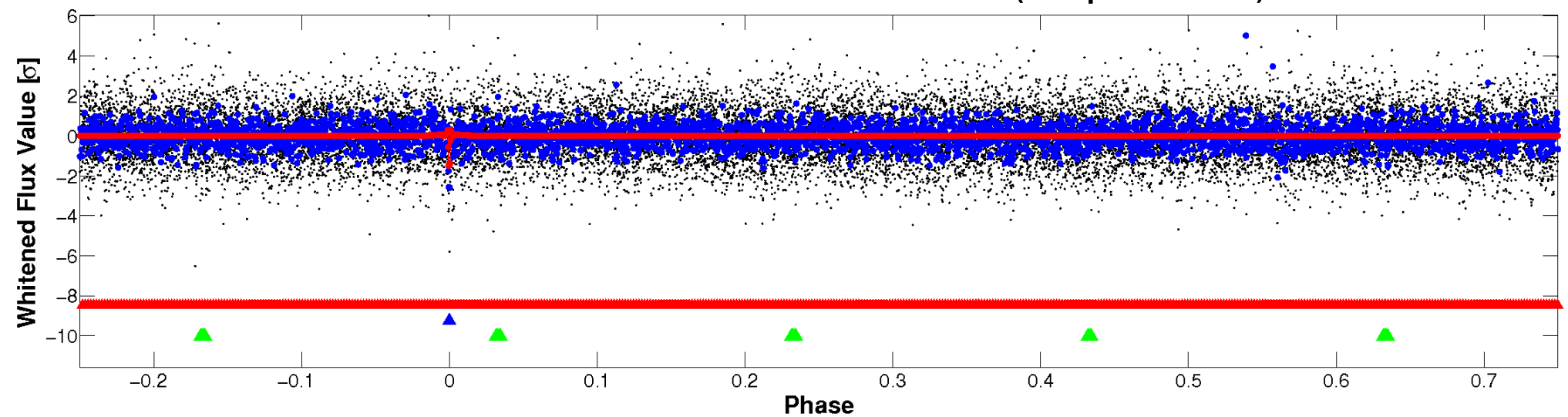


Non-Whitened Vs. Whitened Light Curve

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

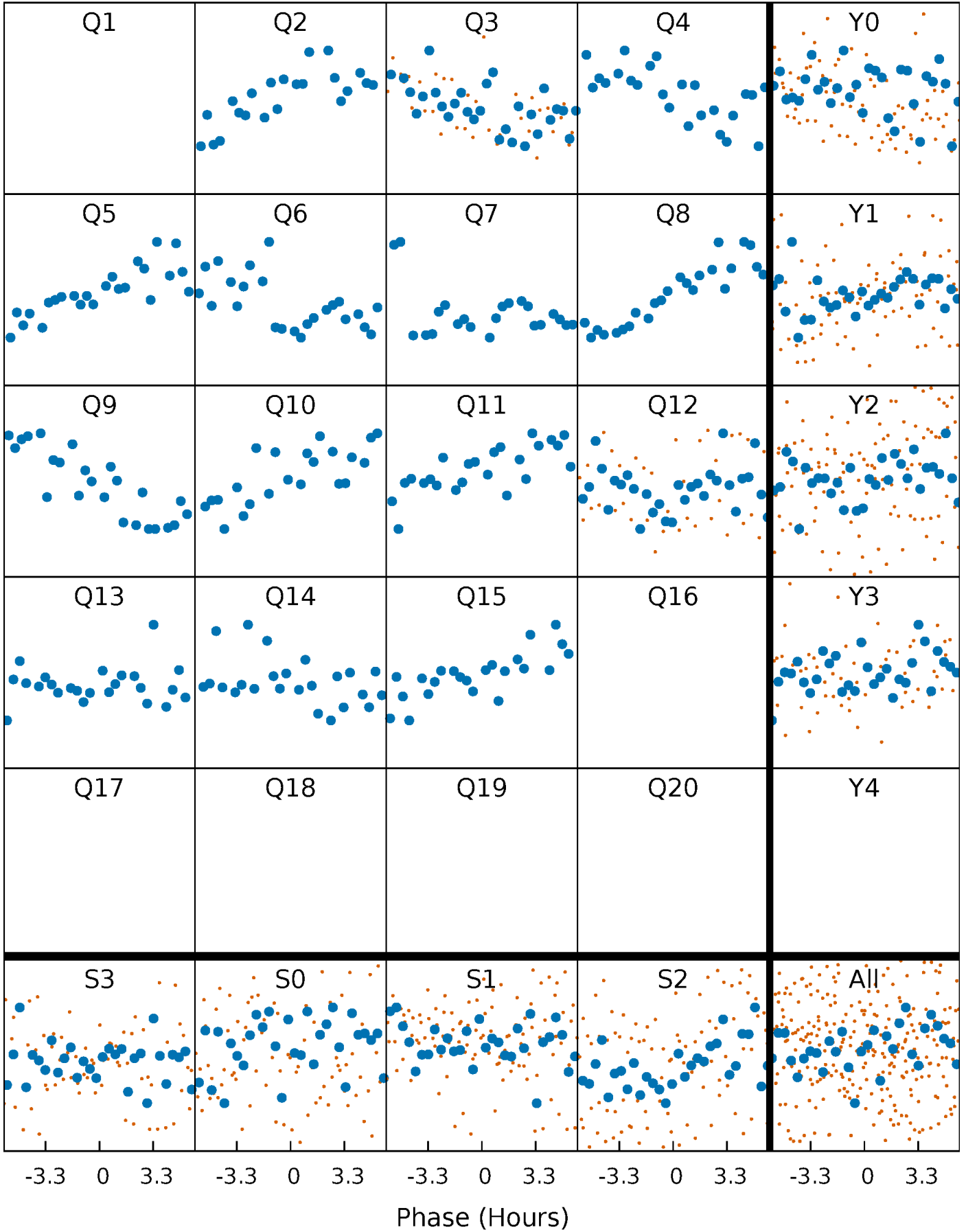


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



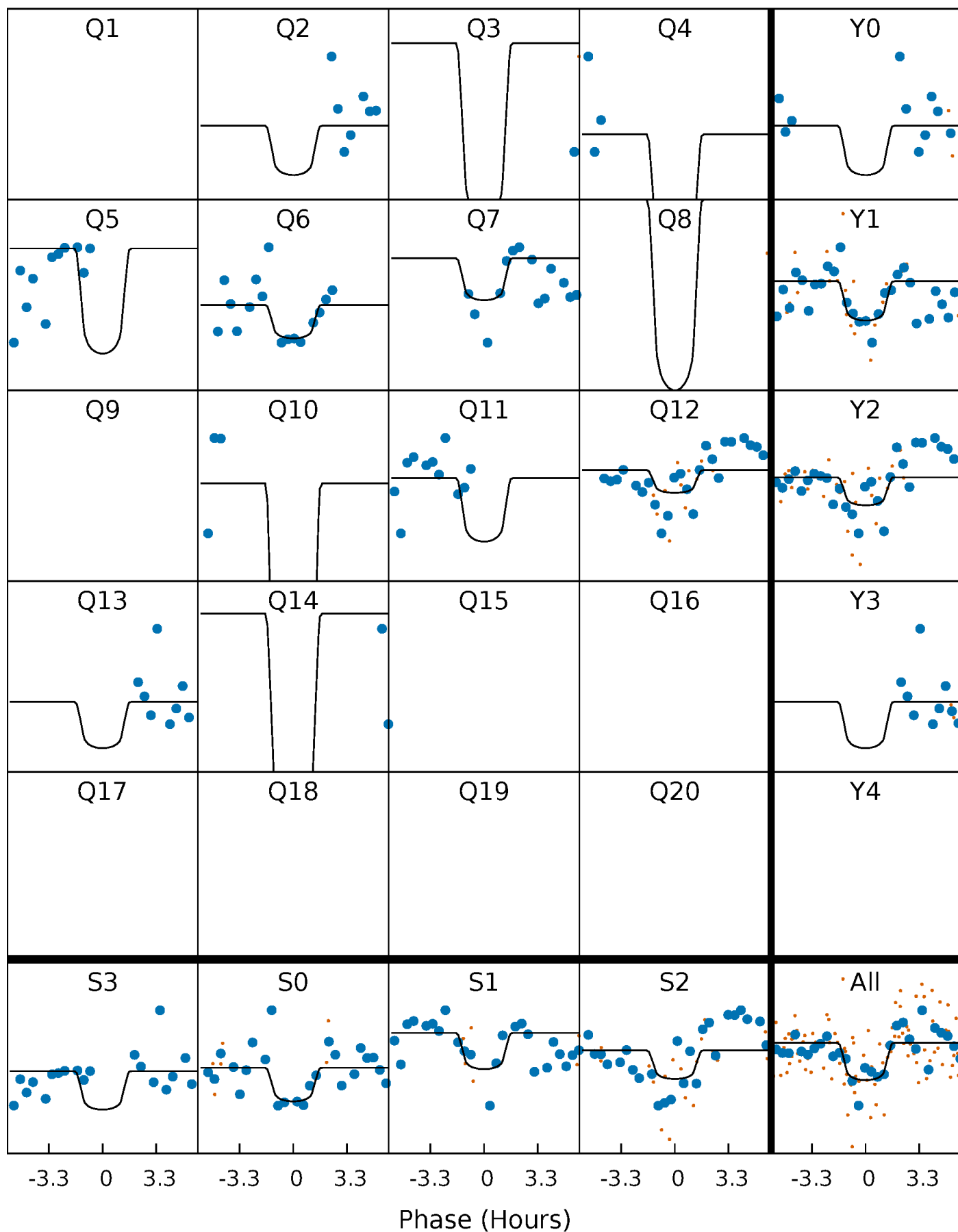
PDC Quarter-Phased Transit Curves

TCE 001434800-02 P= 75.797337 Days $T_0=193.951796$ (BKJD)



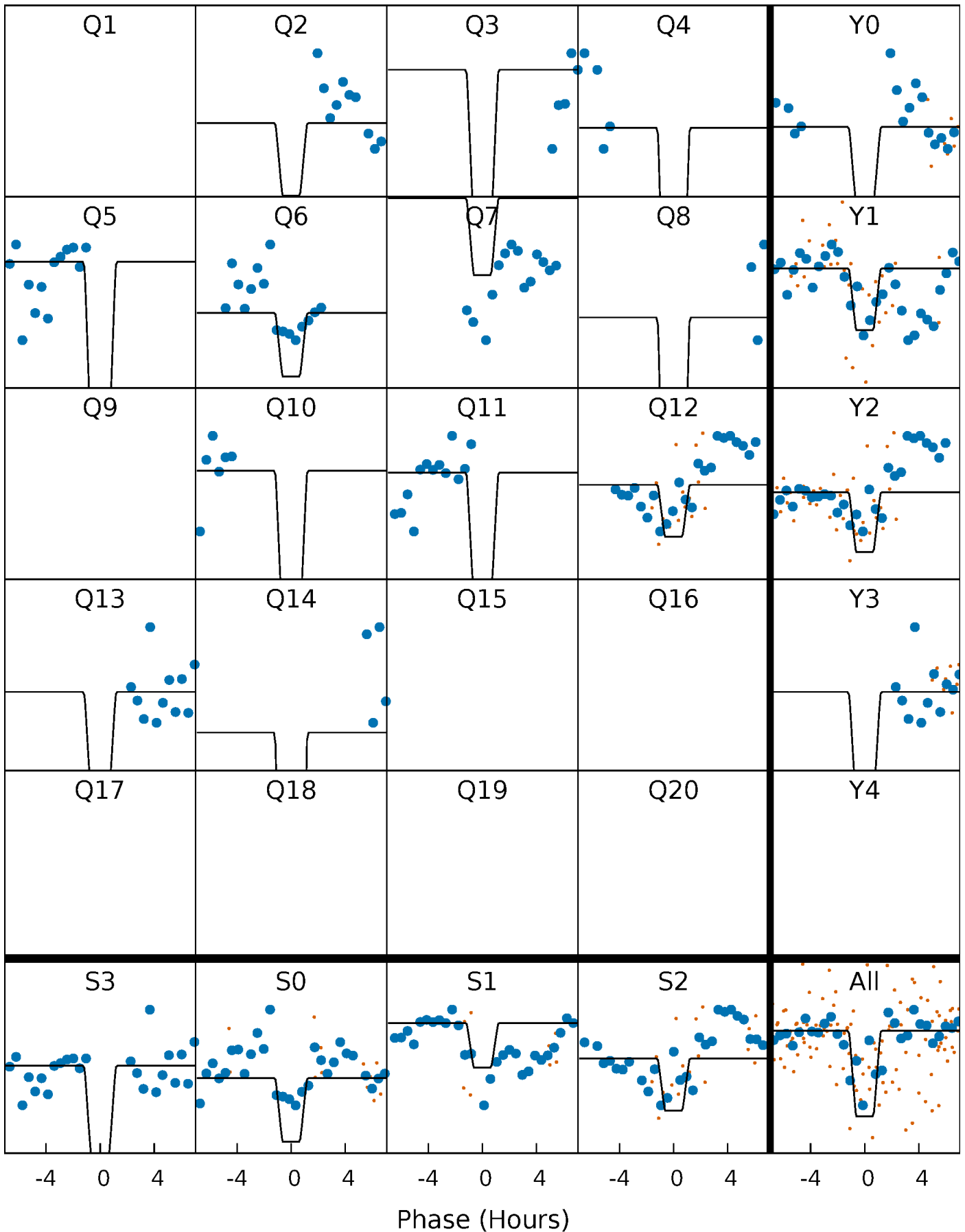
DV Quarter-Phased Transit Curves

TCE 001434800-02 P= 75.797337 Days $T_0=193.951796$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

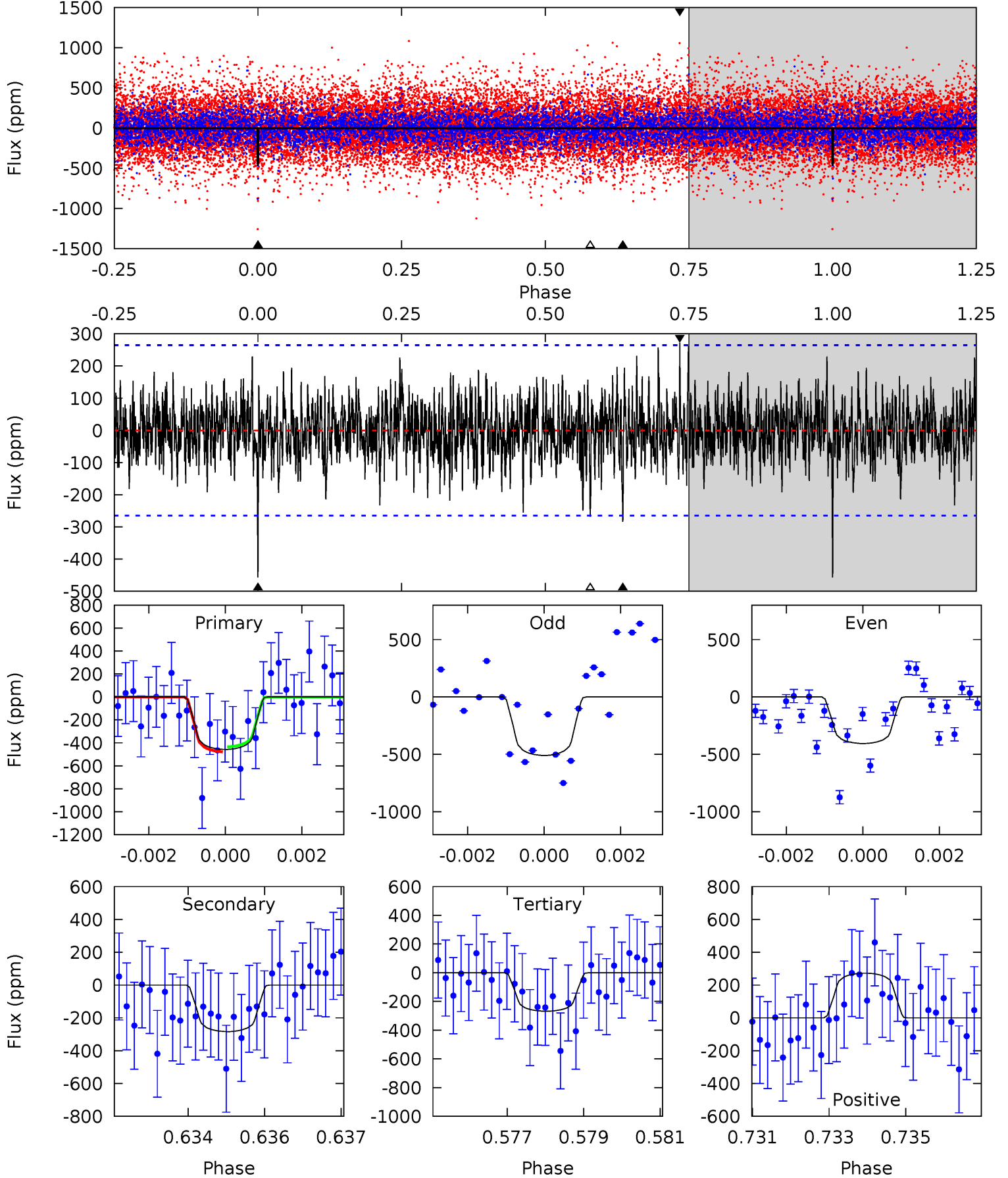
TCE 001434800-02 P= 75.795826 Days $T_0=193.970330$ (BKJD)



DV Model-Shift Uniqueness Test

001434800-02, P = 75.797337 Days, E = 118.154459 Days

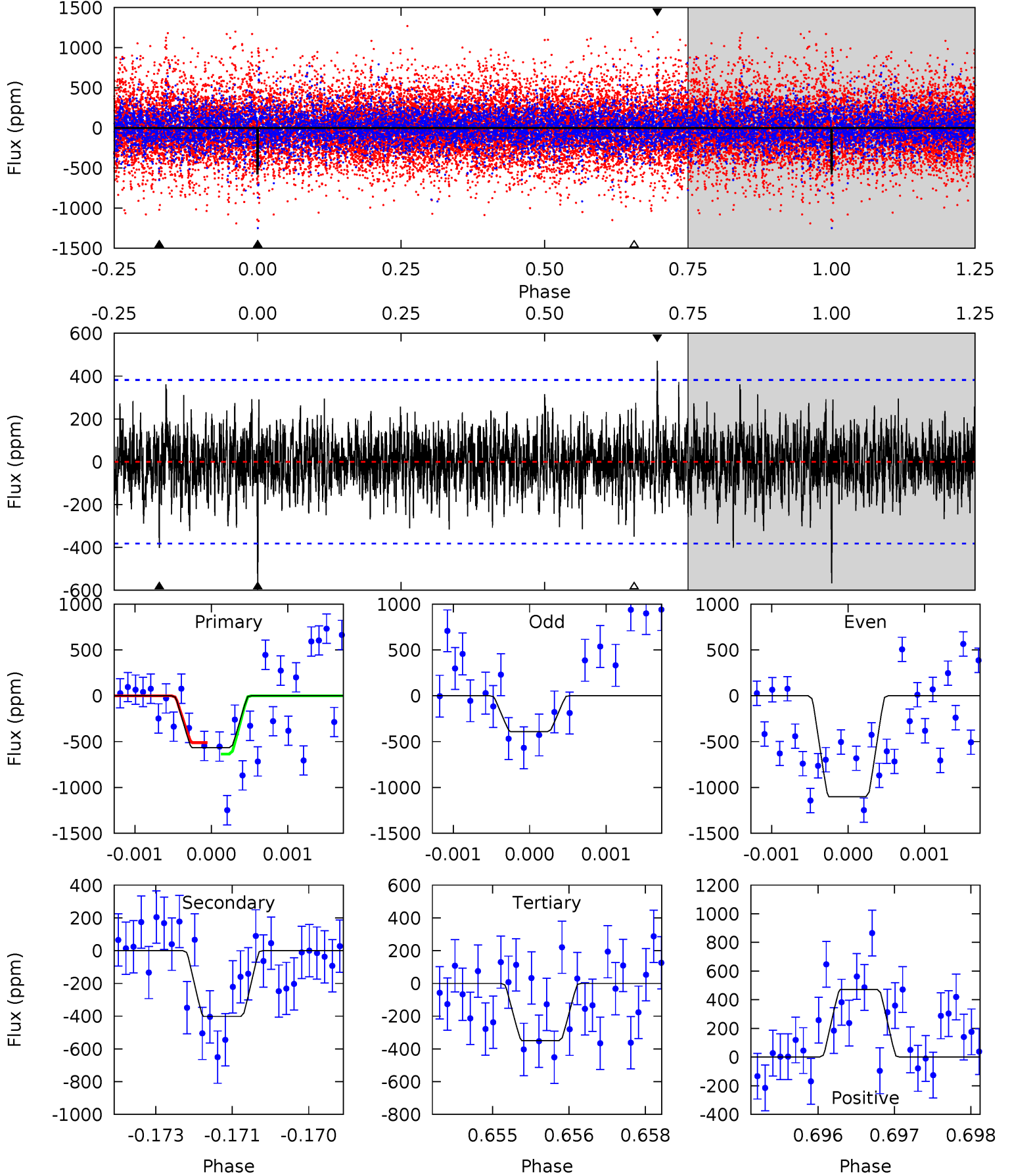
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.23	5.73	5.41	5.50	5.35	3.13	1.46	3.82	3.73	0.32	0.23	1.05	1.00	0.37	0.45



Alt Model-Shift Uniqueness Test

001434800-02, P = 75.795826 Days, E = 118.174504 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.01	5.68	4.94	6.66	5.40	3.21	1.39	3.07	1.35	0.74	-0.98	5.26	1.46	0.45	0.87



Stellar Parameters For KIC 001434800

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6814^{+189}_{-284}	$4.128^{+0.190}_{-0.171}$	$-0.240^{+0.250}_{-0.300}$	$1.643^{+0.492}_{-0.447}$	$1.329^{+0.194}_{-0.237}$	$0.422^{+0.481}_{-0.194}$
	+3%/-4%	+5%/-4%	+104%/-125%	+30%/-27%	+15%/-18%	+114%/-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 001434800-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-284 ± 50	$4.34^{+3.17}_{-2.56}$	869^{+59}_{-72}	5602^{+3426}_{-1128}	1178^{+5866}_{-782}
Alt.	-402 ± 71	$5.96^{+3.40}_{-3.10}$	869^{+58}_{-69}	5261^{+2271}_{-861}	874^{+3064}_{-508}

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

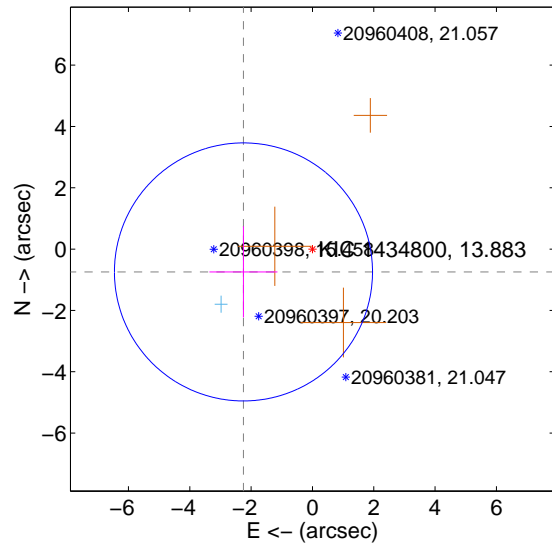
Supplemental centroid analysis for 001434800-02. Kepler magnitude: 13.88. Transit SNR 6.70

There are 1 quarters with good PRF difference image offsets

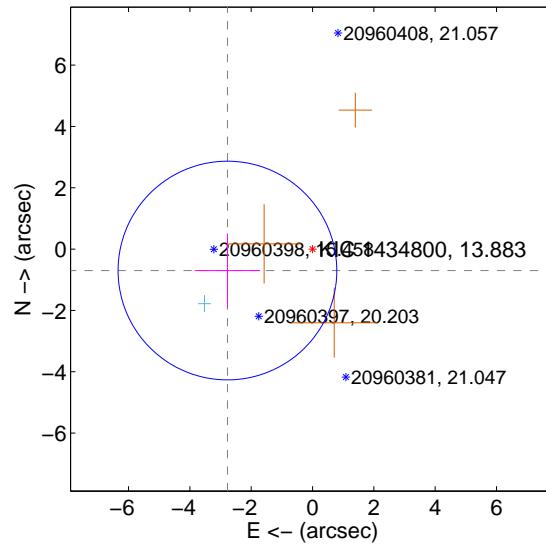
The direct PRF centroid is offset from the target star catalog position by about 0.52 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.369 ± 1.403	1.69	2.249 ± 1.110	-0.744 ± 1.488
PRF-fit source offset from KIC position	2.862 ± 1.189	2.41	2.775 ± 1.067	-0.699 ± 1.210
photometric centroid source offset	1.40 ± 0.66	2.12	0.72 ± 0.74	-1.20 ± 0.63

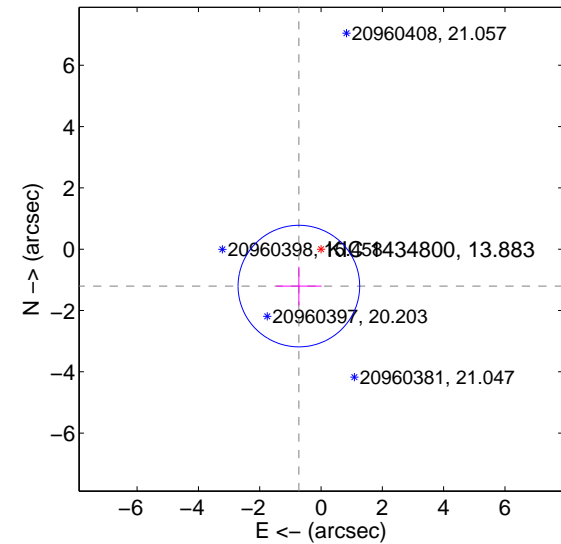
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

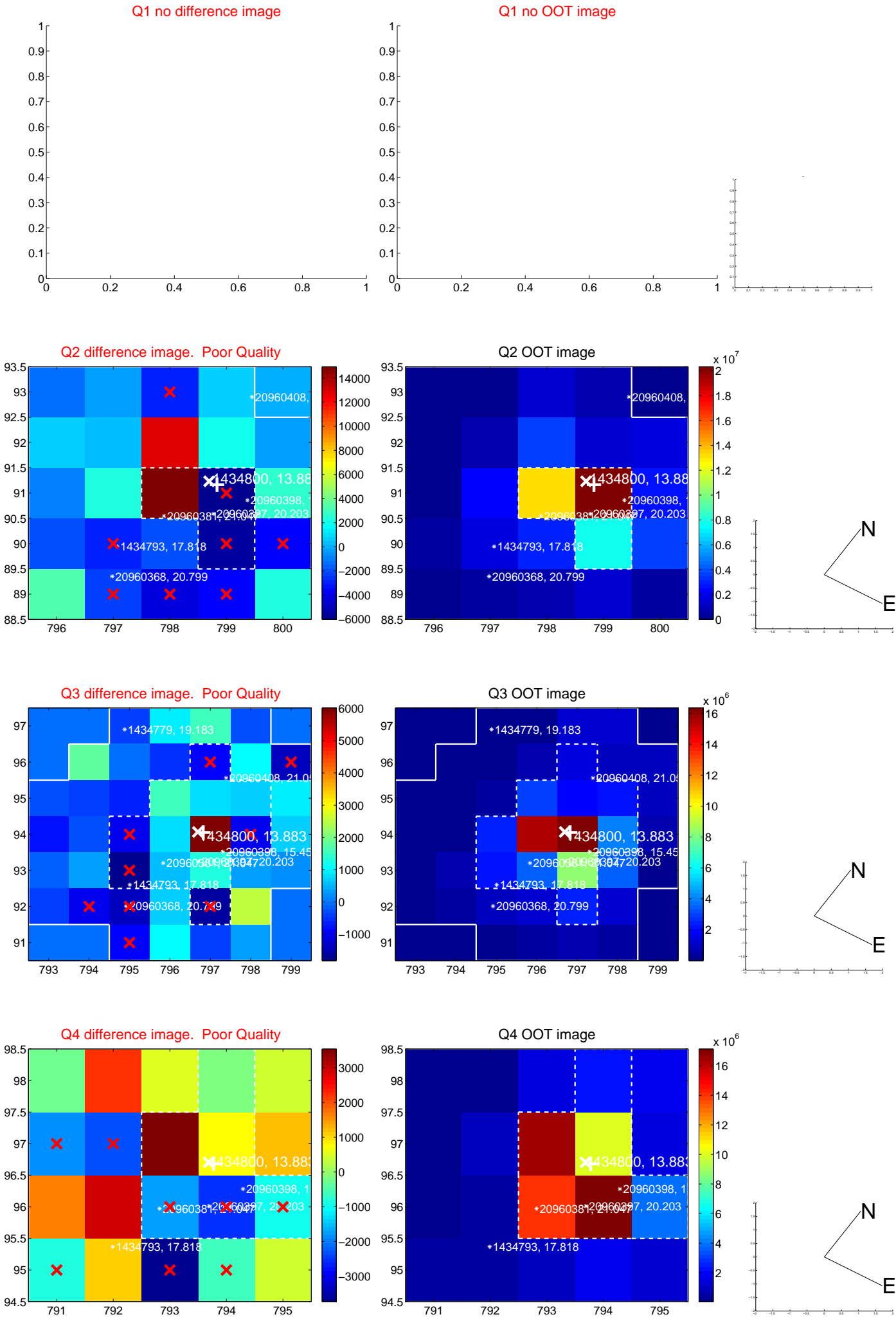


offset from photometric centroids

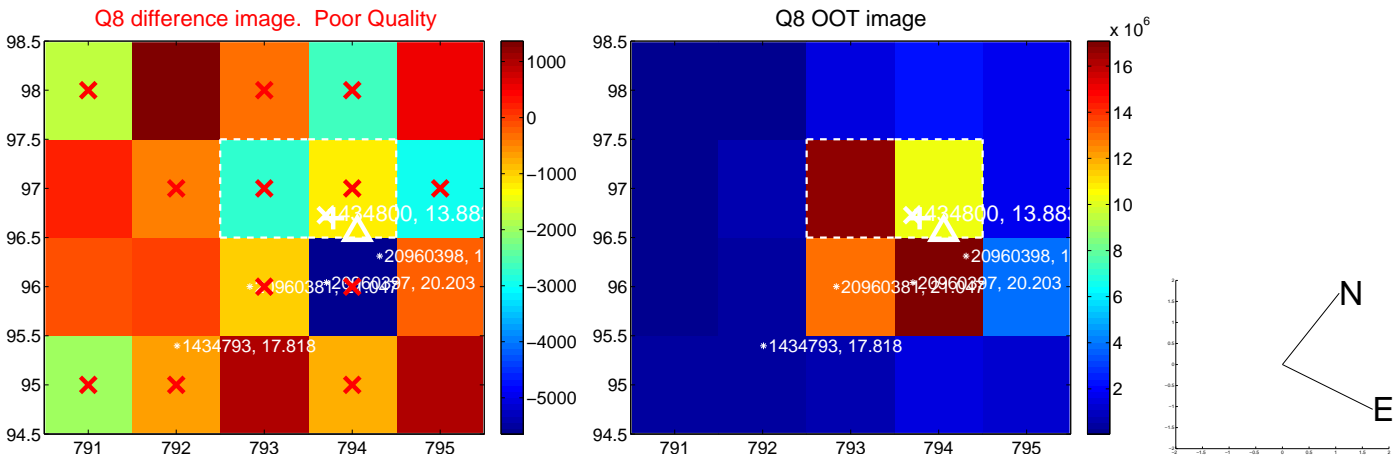
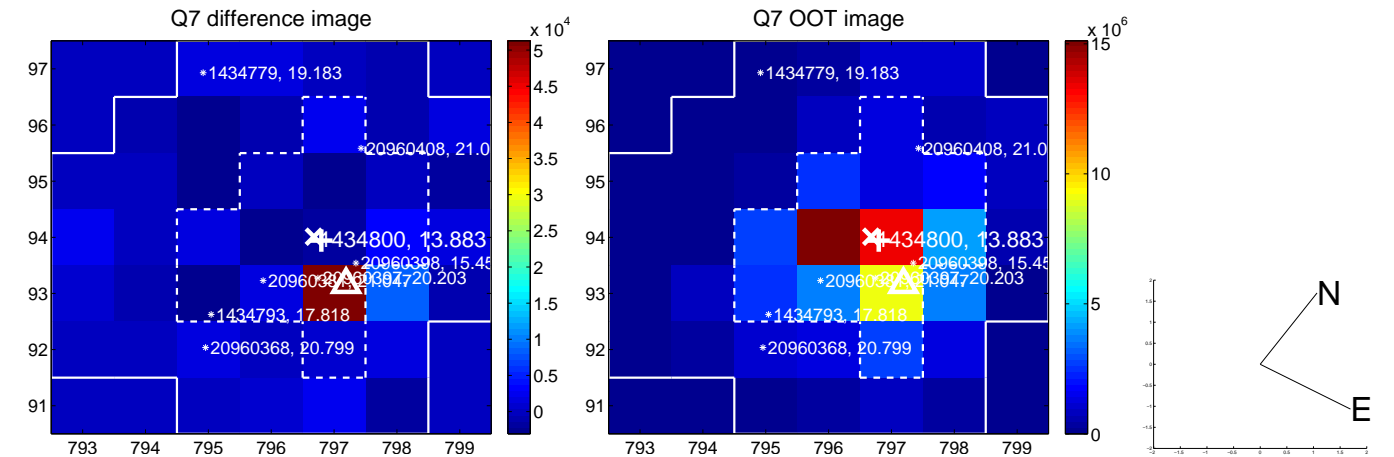
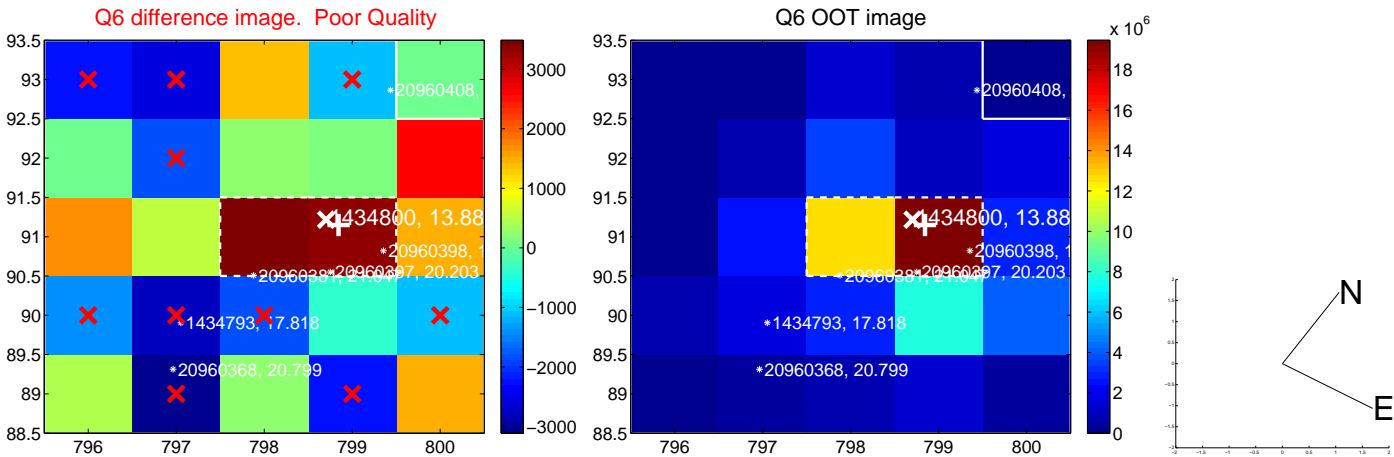
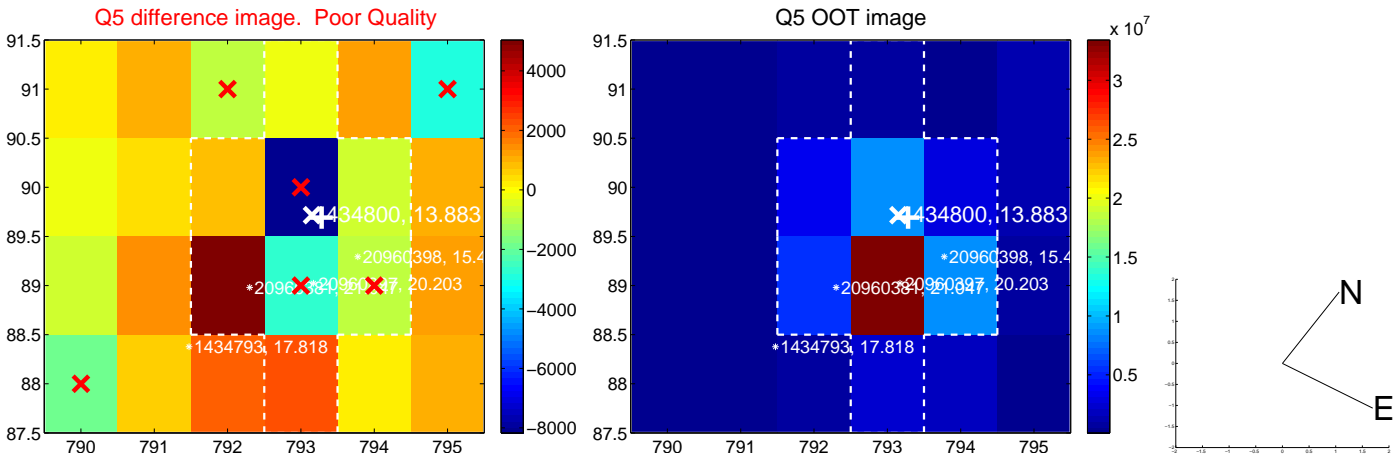


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

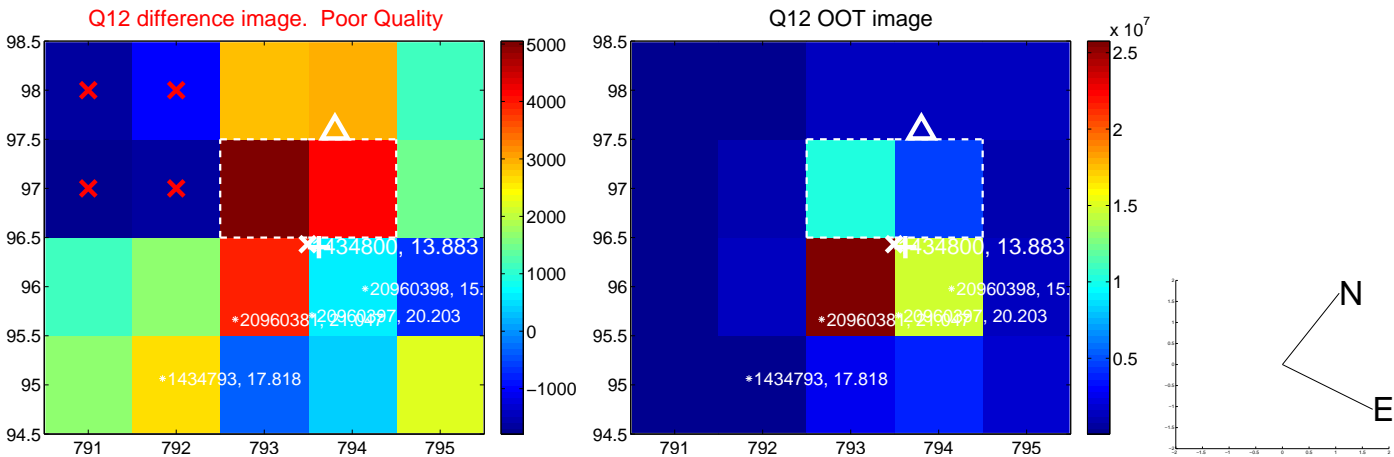
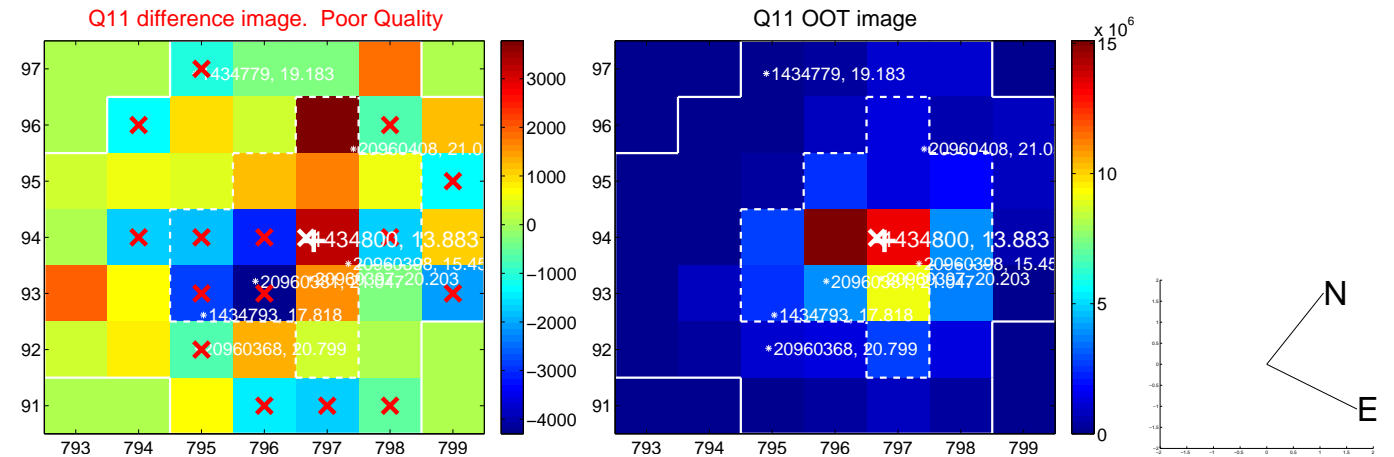
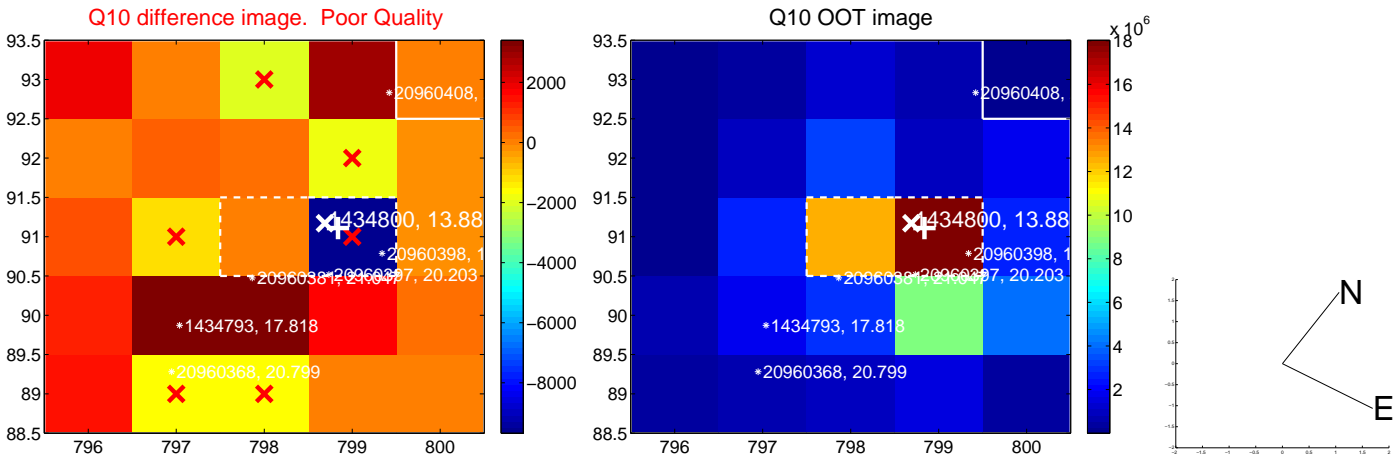
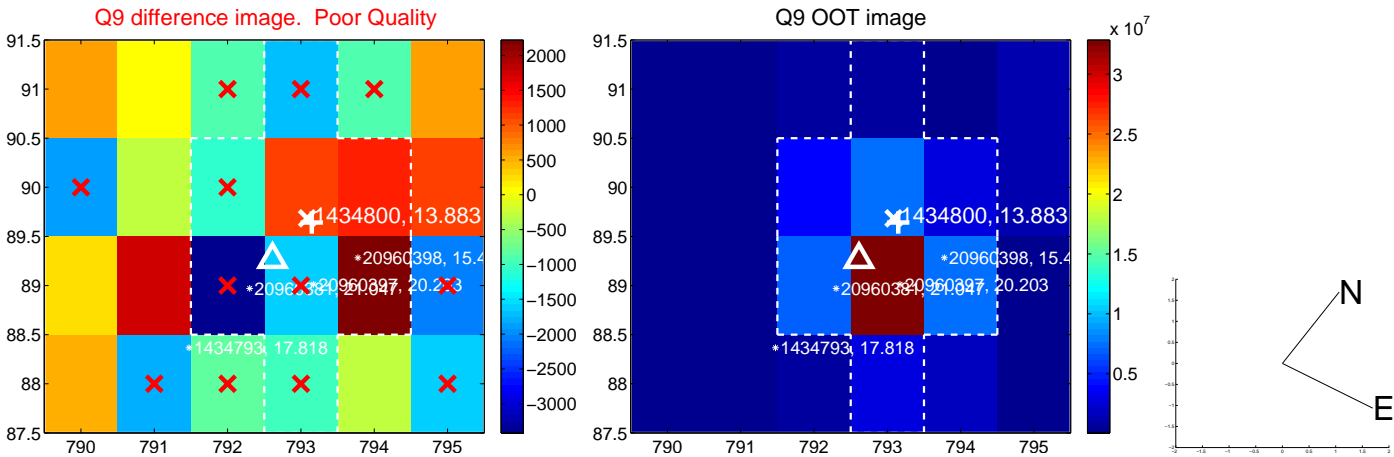
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



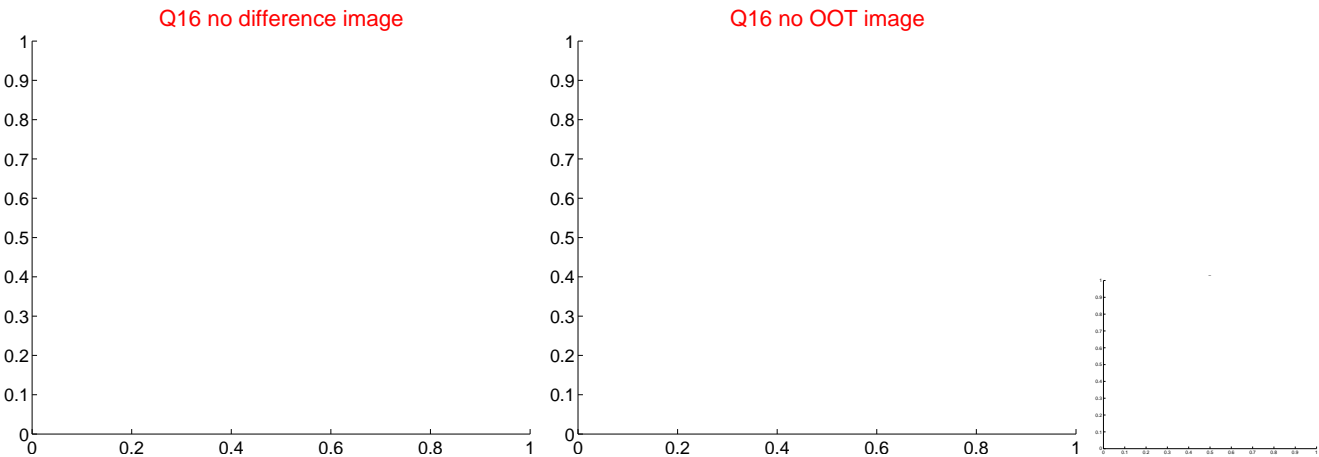
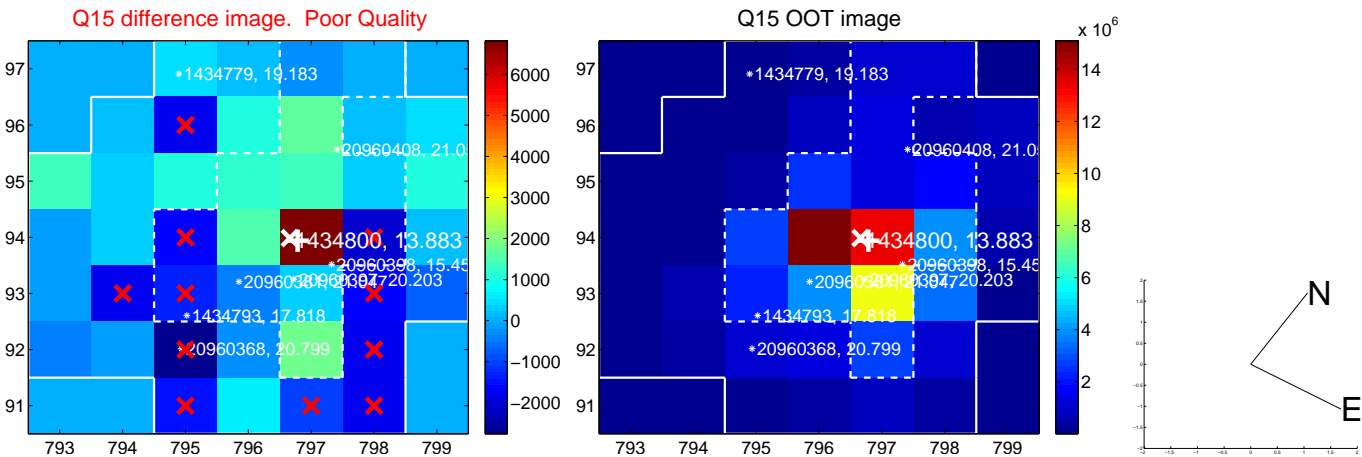
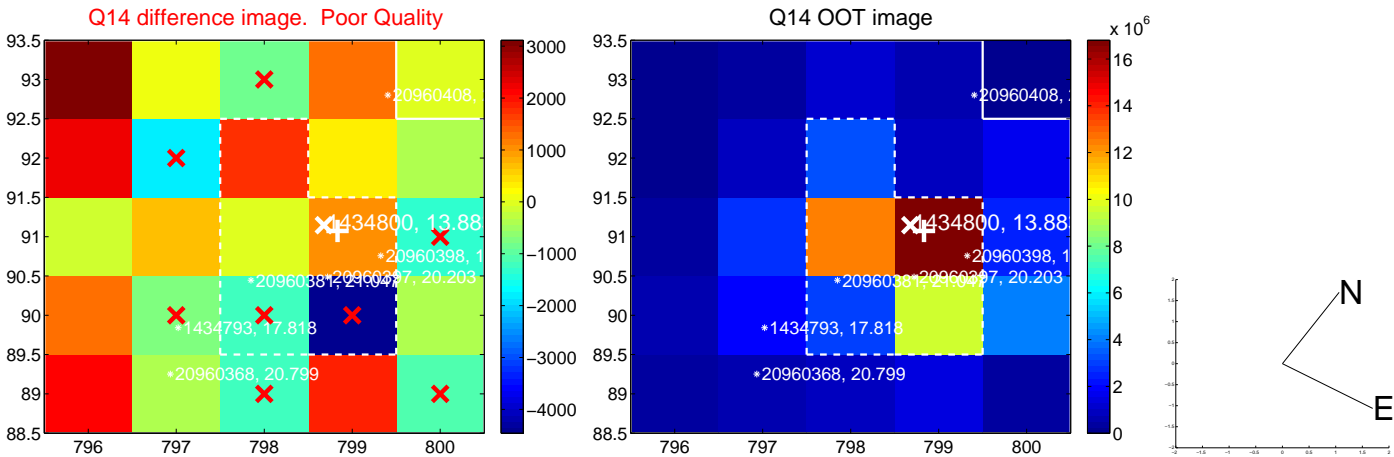
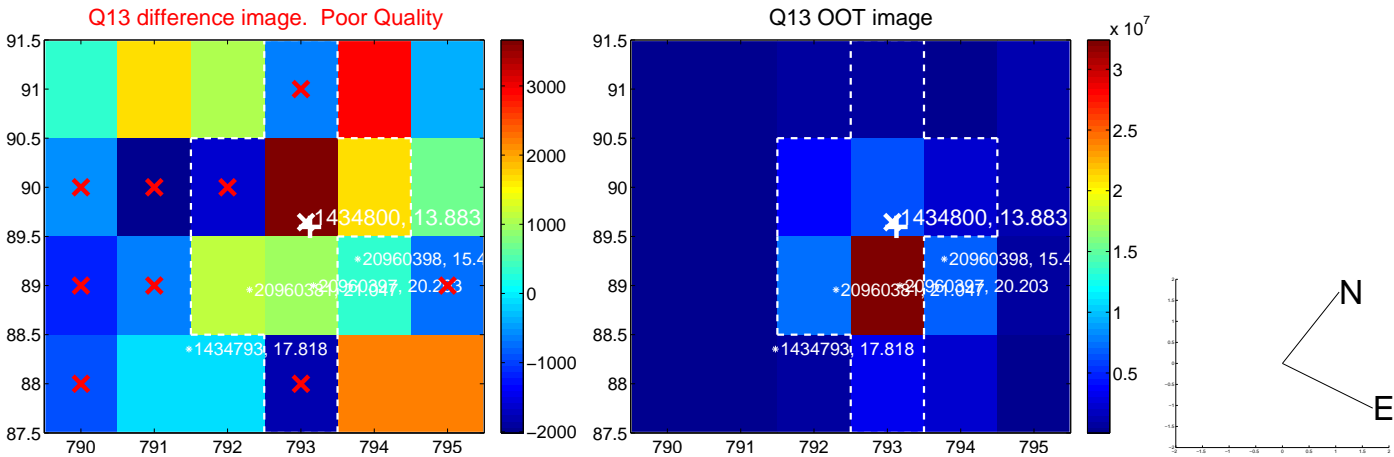
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



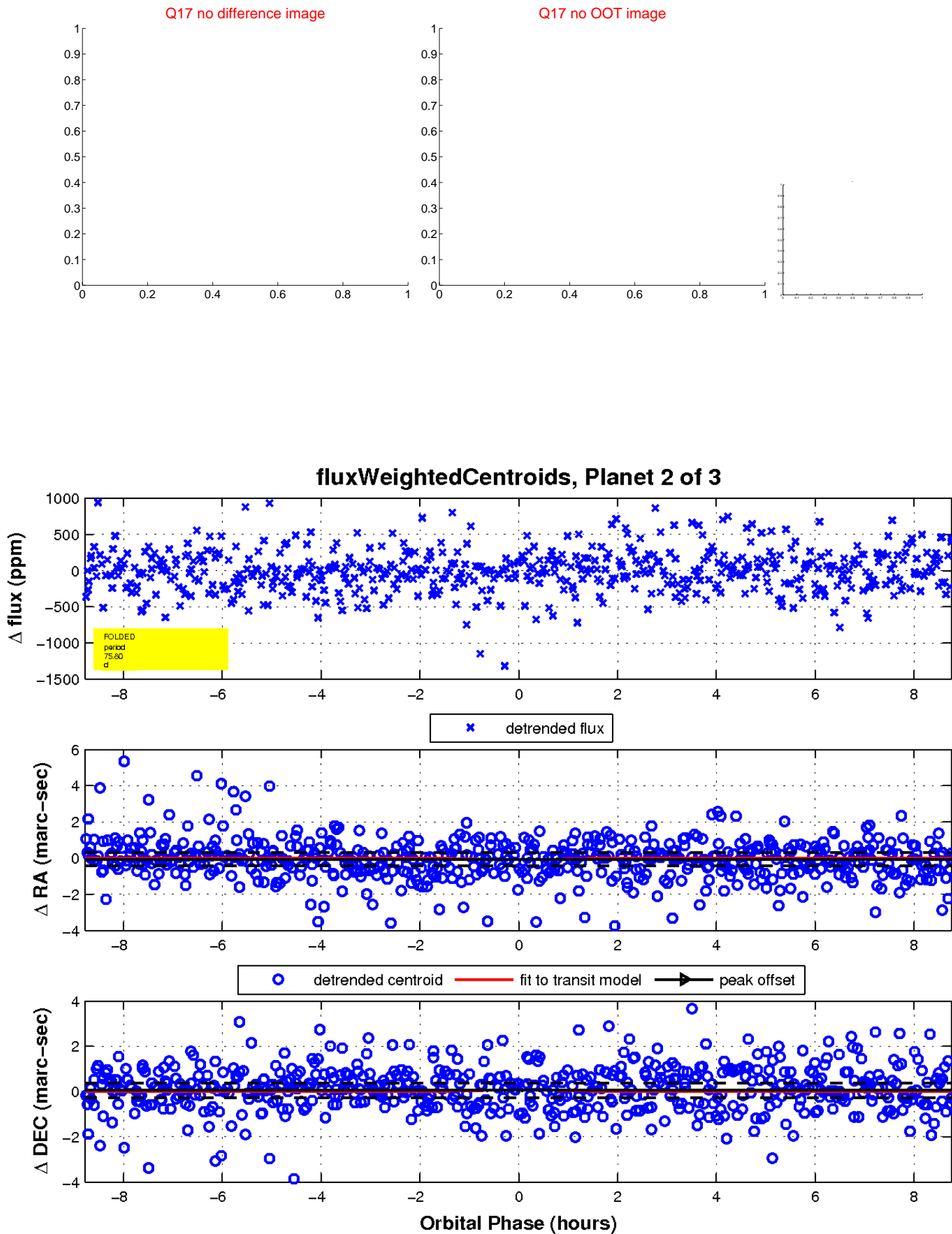
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



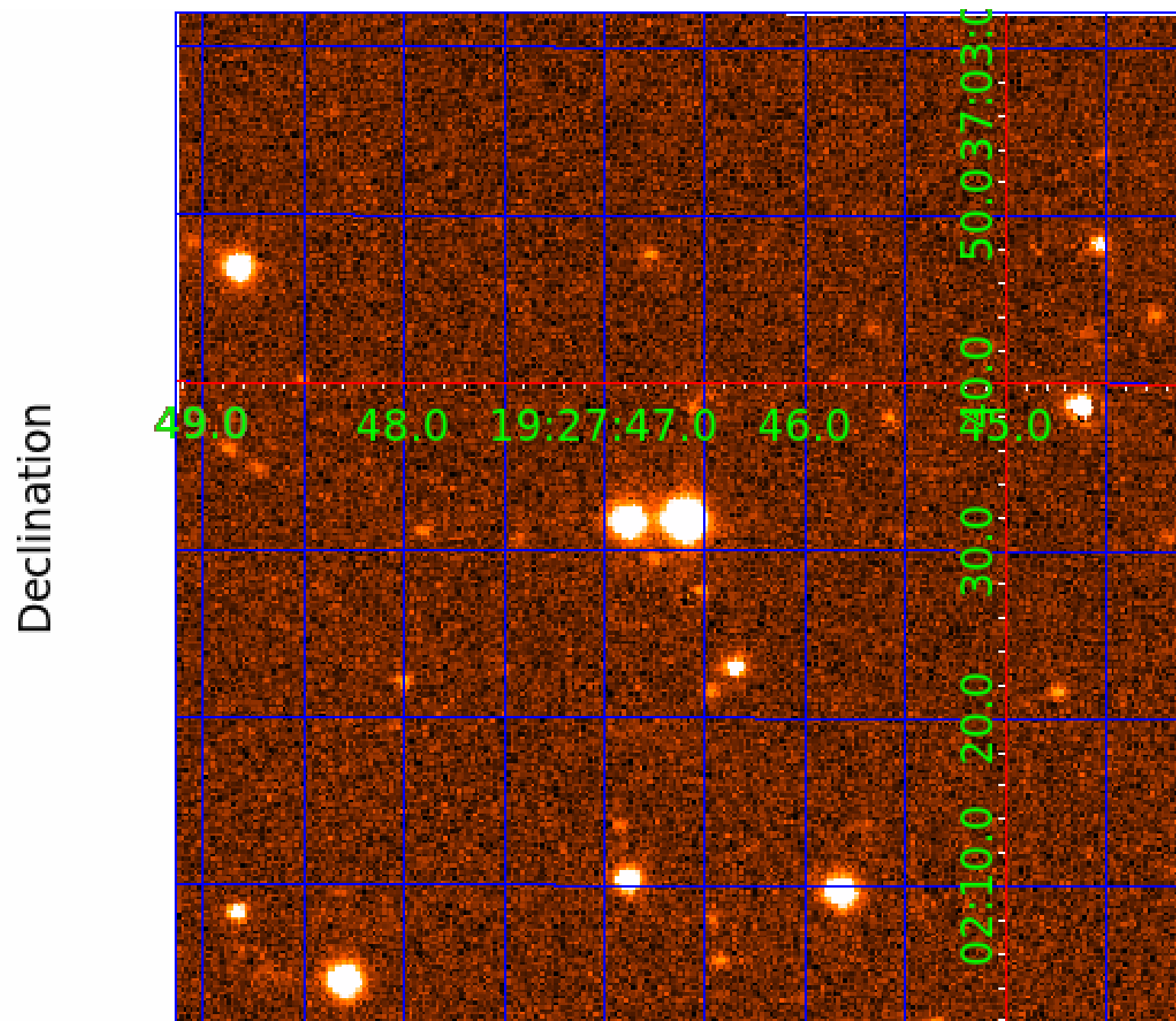
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 001434800

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})
001434800-01	OBS	No	0.999208	131.740539	39.7	5.274	10.0	10.9	1.64	6814	1.08	11308.02
001434800-02	OBS	No	75.797337	193.951796	450.9	2.927	9.1	6.7	1.64	6814	3.89	35.22
001434800-03	OBS	No	60.649472	135.692395	251.0	5.798	8.3	6.7	1.64	6814	3.08	47.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
001434800-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT
001434800-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_MEAS
001434800-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_KIC_POS

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

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

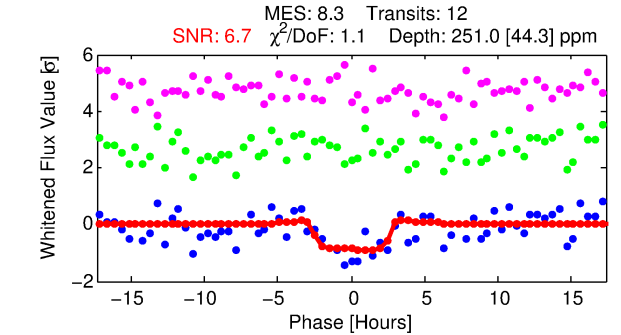
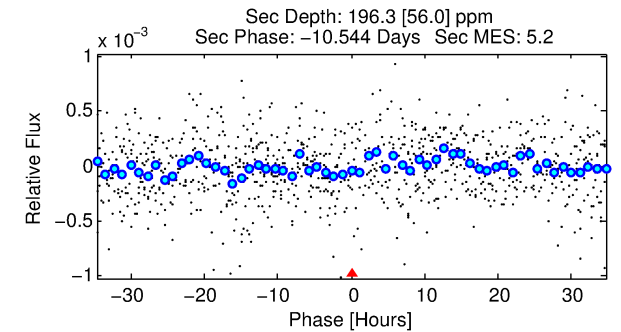
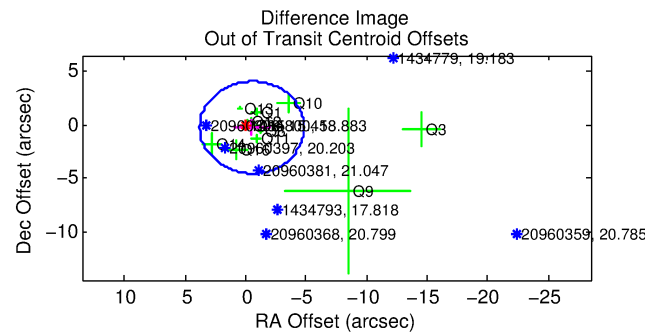
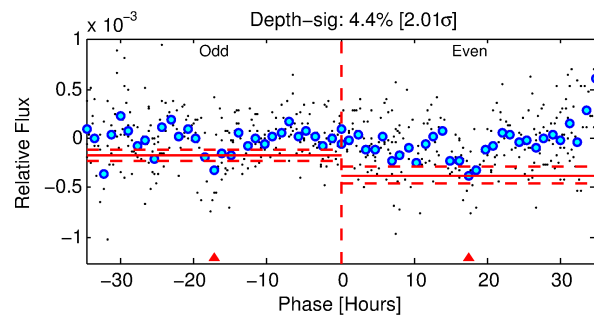
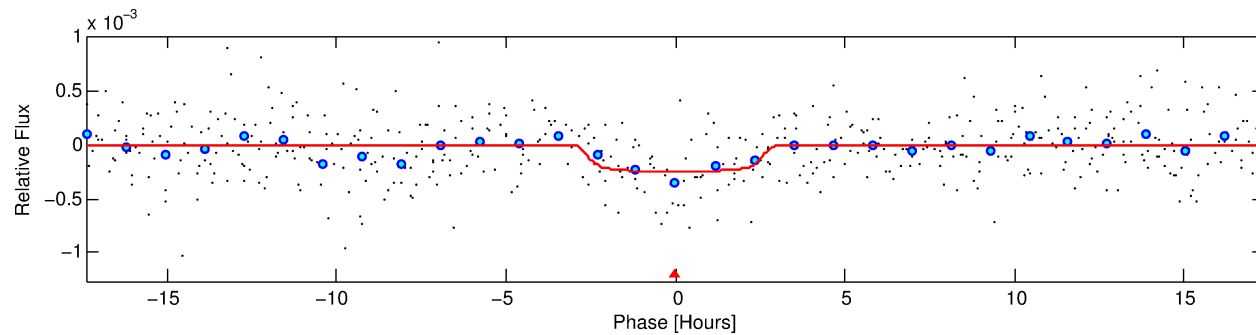
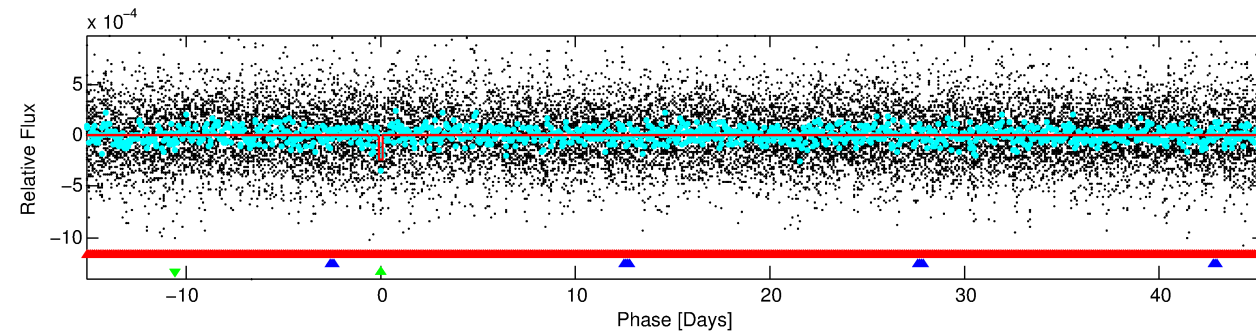
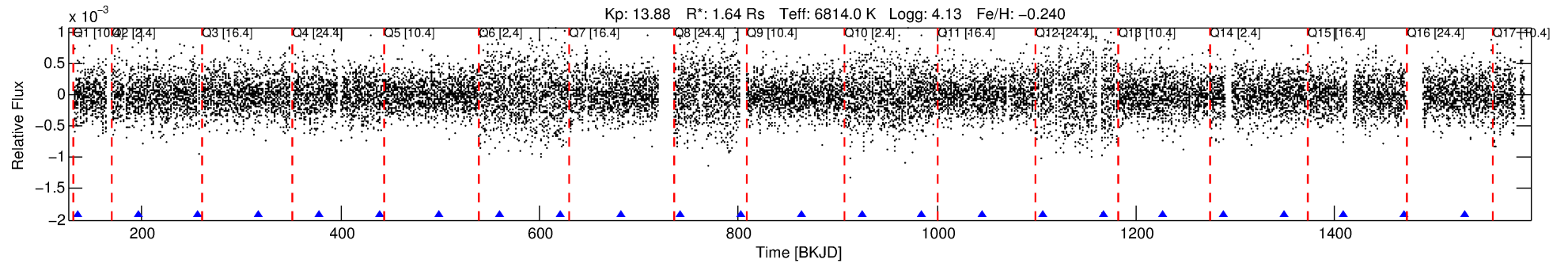
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 001434800-03

No Significant Match Found

DV One-Page Summary

KIC: 1434800 Candidate: 3 of 3 Period: 60.649 d



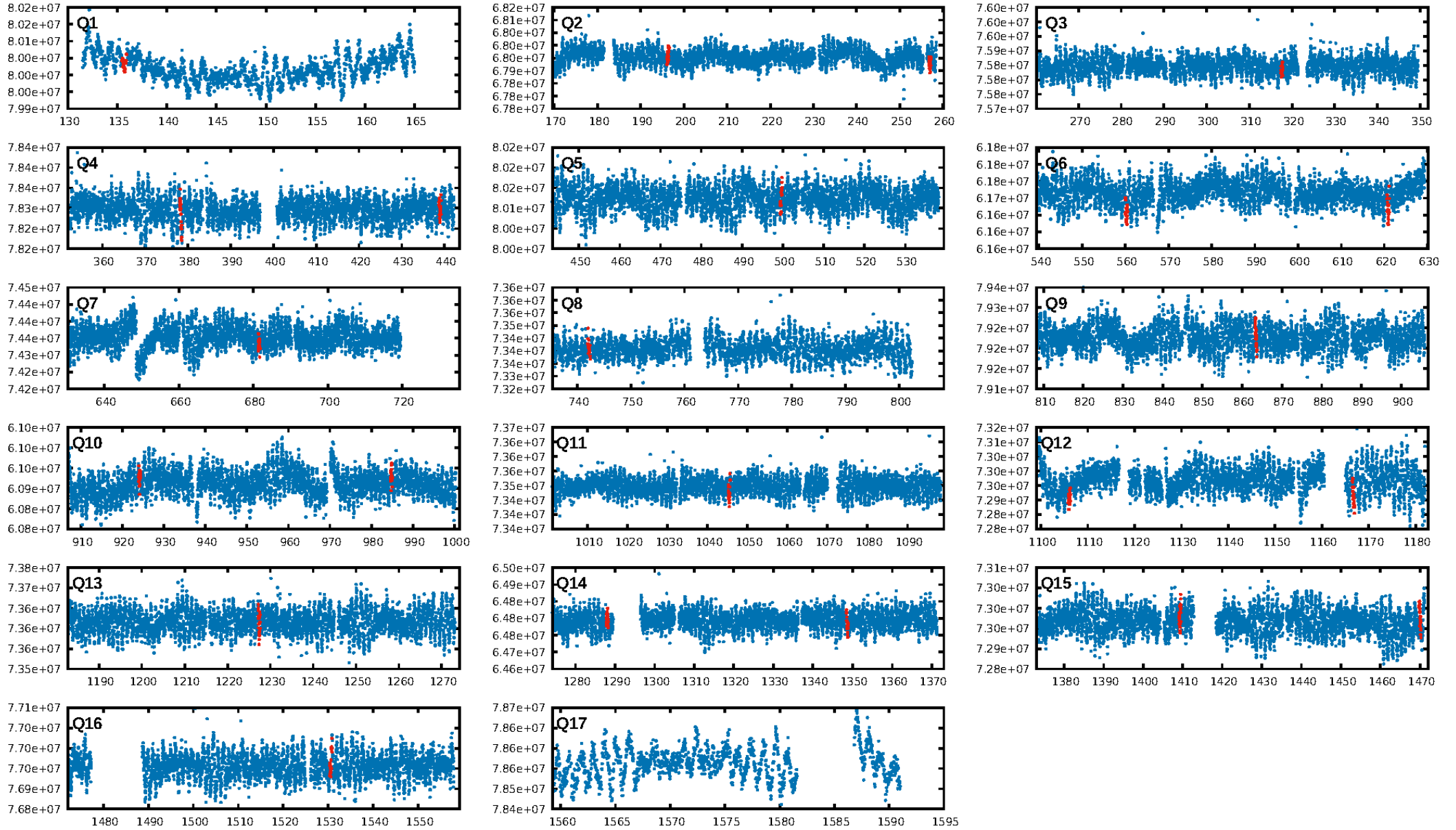
DV Fit Results:

Period = 60.64947 [0.00117] d
Epoch = 135.6924 [0.0157] BKJD
Rp/R* = 0.0172 [0.0039]
a/R* = 34.78 [41.55]
b = 0.92 [0.20]
Seff = 47.41 [18.53]
Teq = 669 [65] K
Rp = 3.08 [1.16] Re
a = 0.3316 [0.0820] AU
Ag = 1252.60 [806.12] [1.55σ]
Teffp = 6154 [866] K [6.31σ]

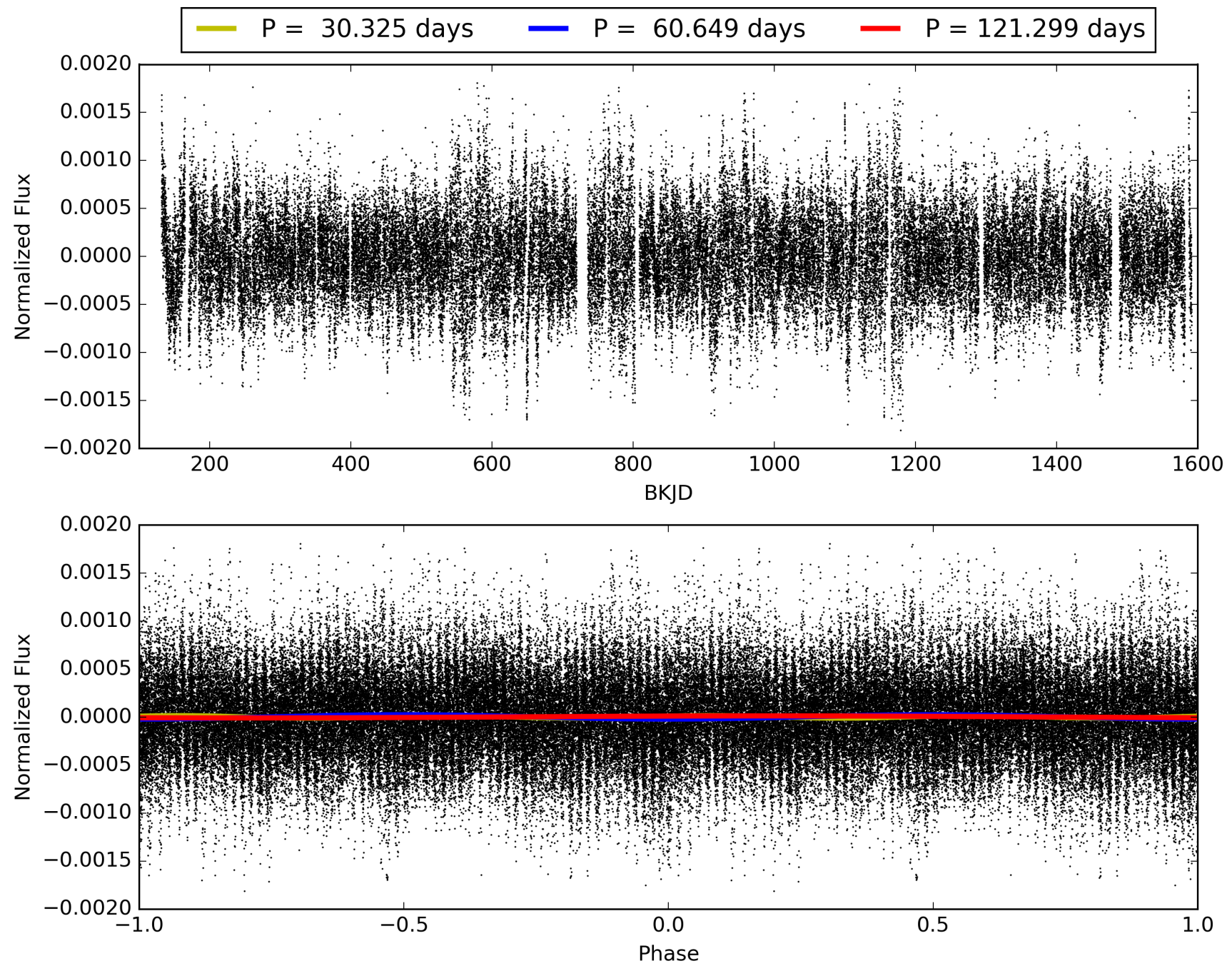
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [182.65σ]
LongPeriod-sig: 100.0% [55.97σ]
ModelChiSquare2-sig: 4.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.78e-09
RollingBand-fgt: 1.00 [12/12]
GhostDiagnostic-chr: 1.763
Centroid-sig: 3.8%
Centroid-so: 0.193 arcsec [0.25σ]
OotOffset-rm: 0.577 arcsec [0.40σ]
KicOffset-rm: 0.207 arcsec [0.17σ]
OotOffset-st: 3/3/2/3 [11]
KicOffset-st: 3/3/2/3 [11]
DiffImageQuality-fgm: 0.45 [5/11]
DiffImageOverlap-fno: 0.00 [0/16]

TCE 001434800-03, PDC Light Curves

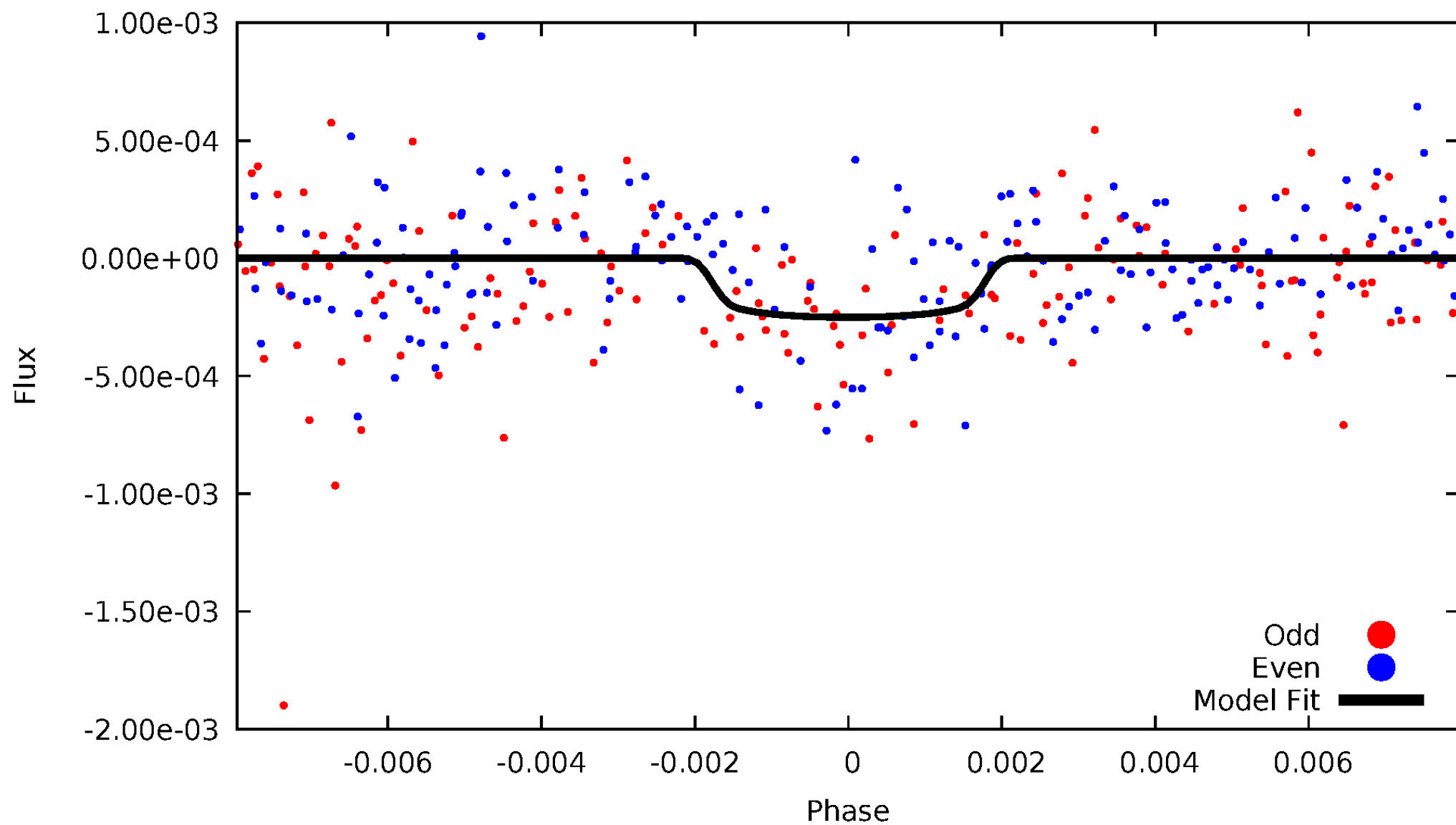


TCE 001434800-03



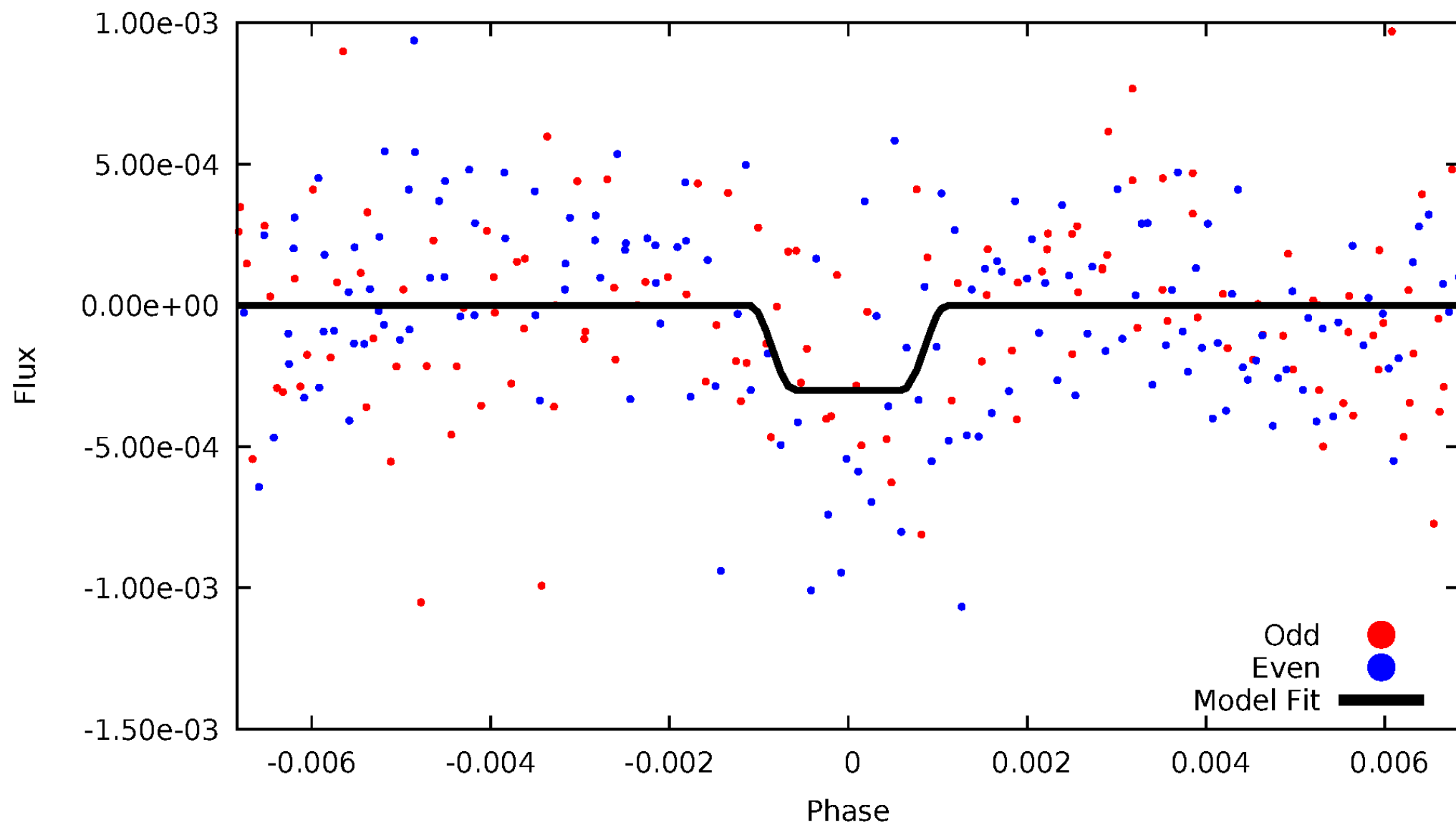
DV Odd/Even

TCE 001434800-03

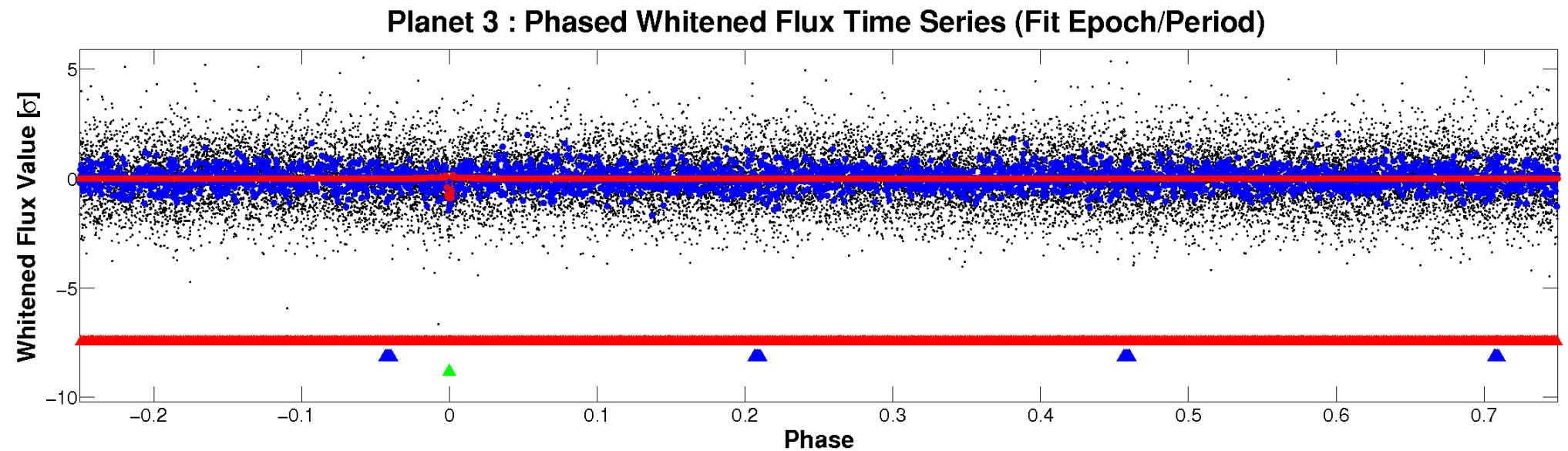
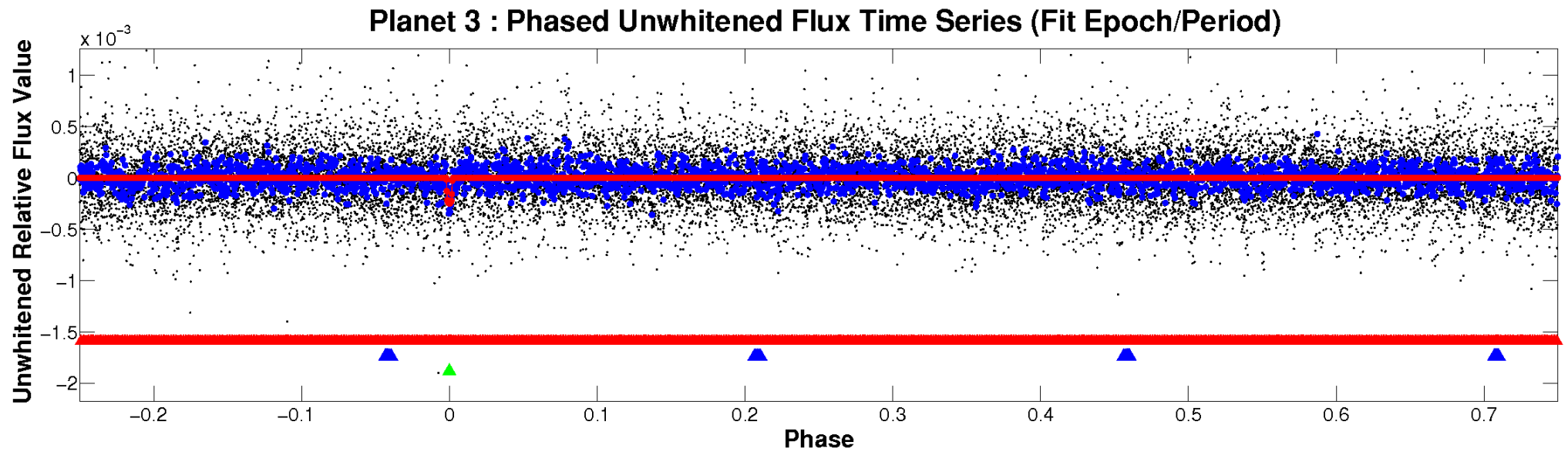


ALT Odd/Even

TCE 001434800-03

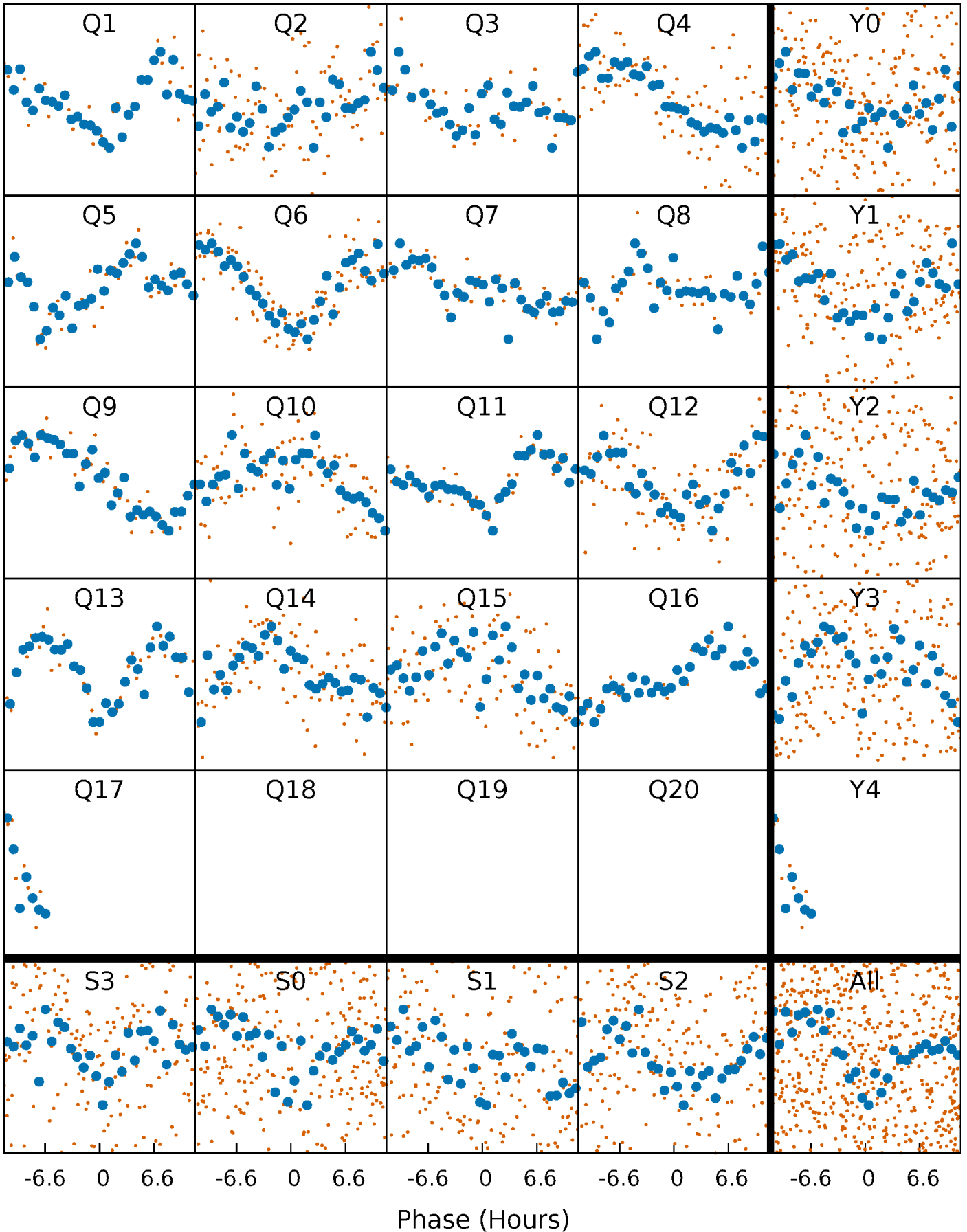


Non-Whitened Vs. Whitened Light Curve



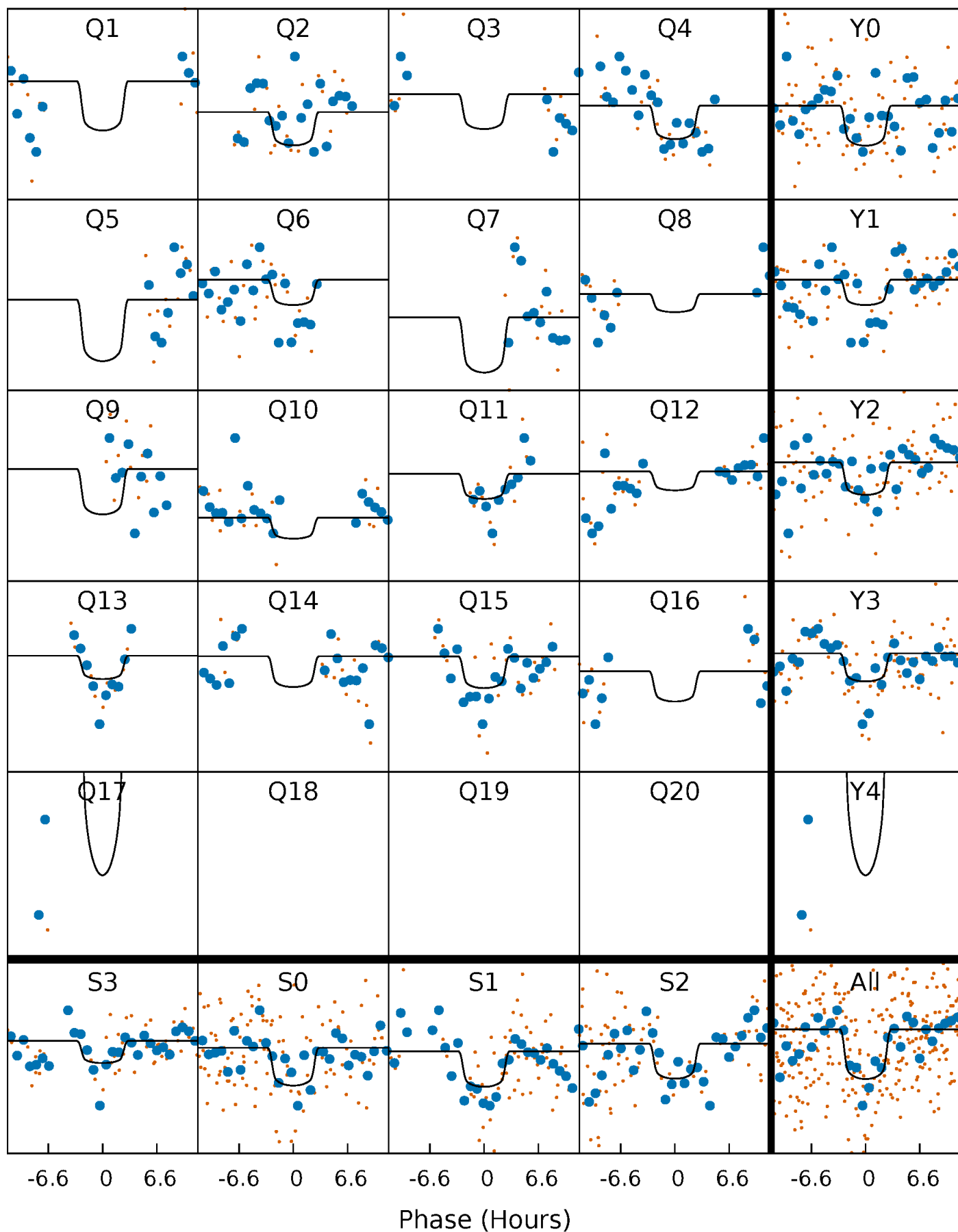
PDC Quarter-Phased Transit Curves

TCE 001434800-03 P= 60.649472 Days $T_0=135.692396$ (BKJD)



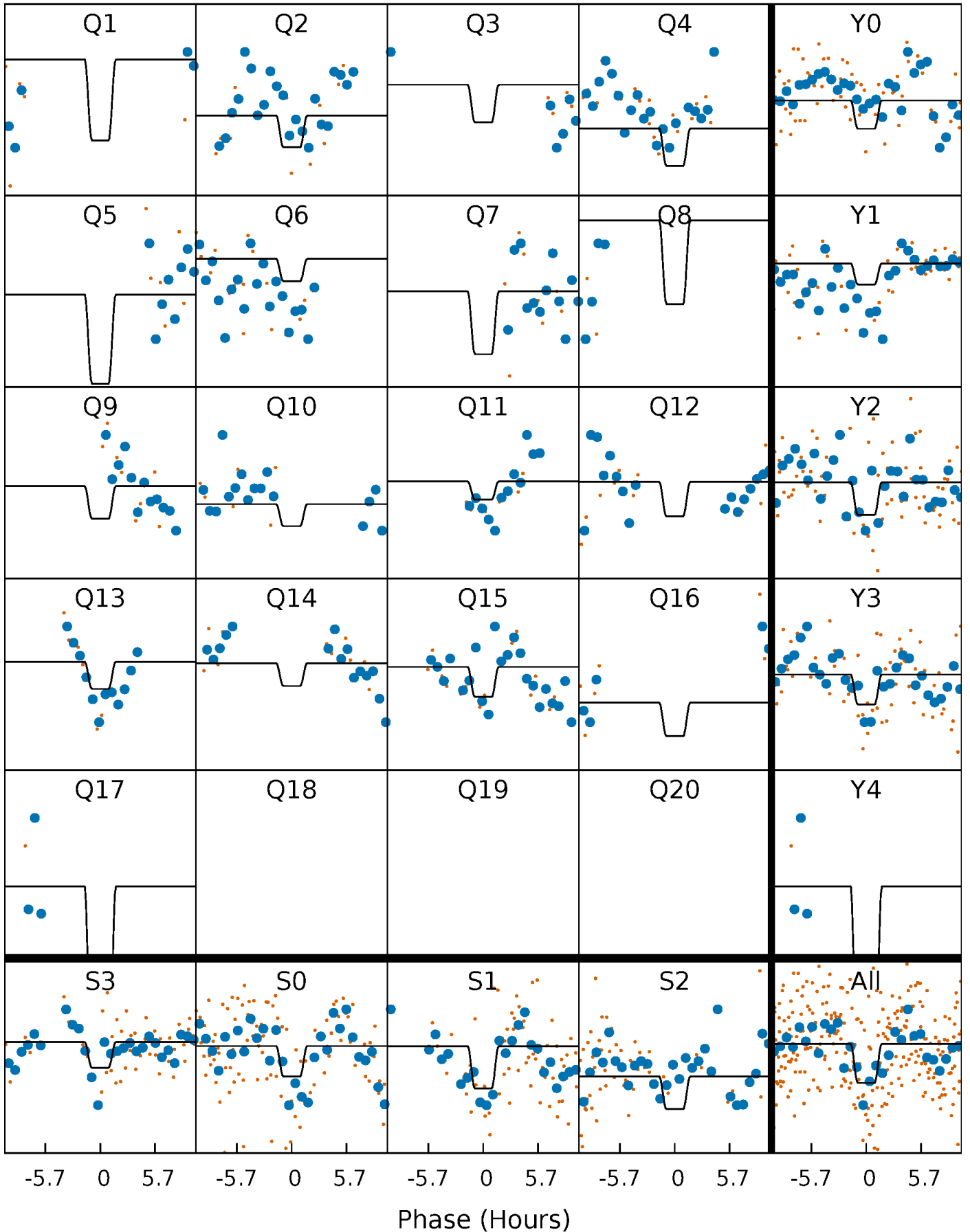
DV Quarter-Phased Transit Curves

TCE 001434800-03 P= 60.649472 Days $T_0=135.692396$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

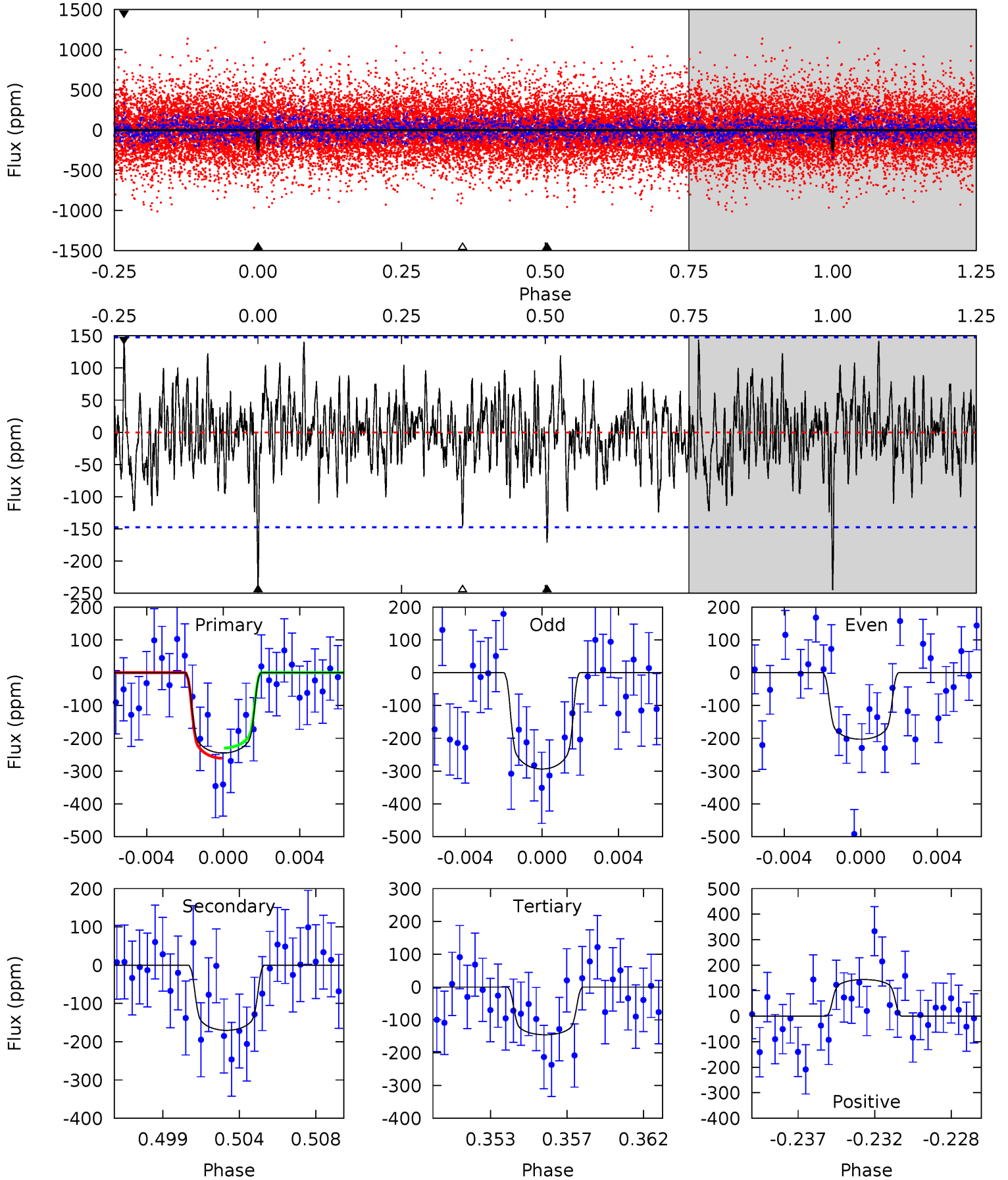
TCE 001434800-03 $P = 60.647549$ Days $T_0 = 135.723433$ (BKJD)



DV Model-Shift Uniqueness Test

001434800-03, P = 60.649472 Days, E = 75.042924 Days

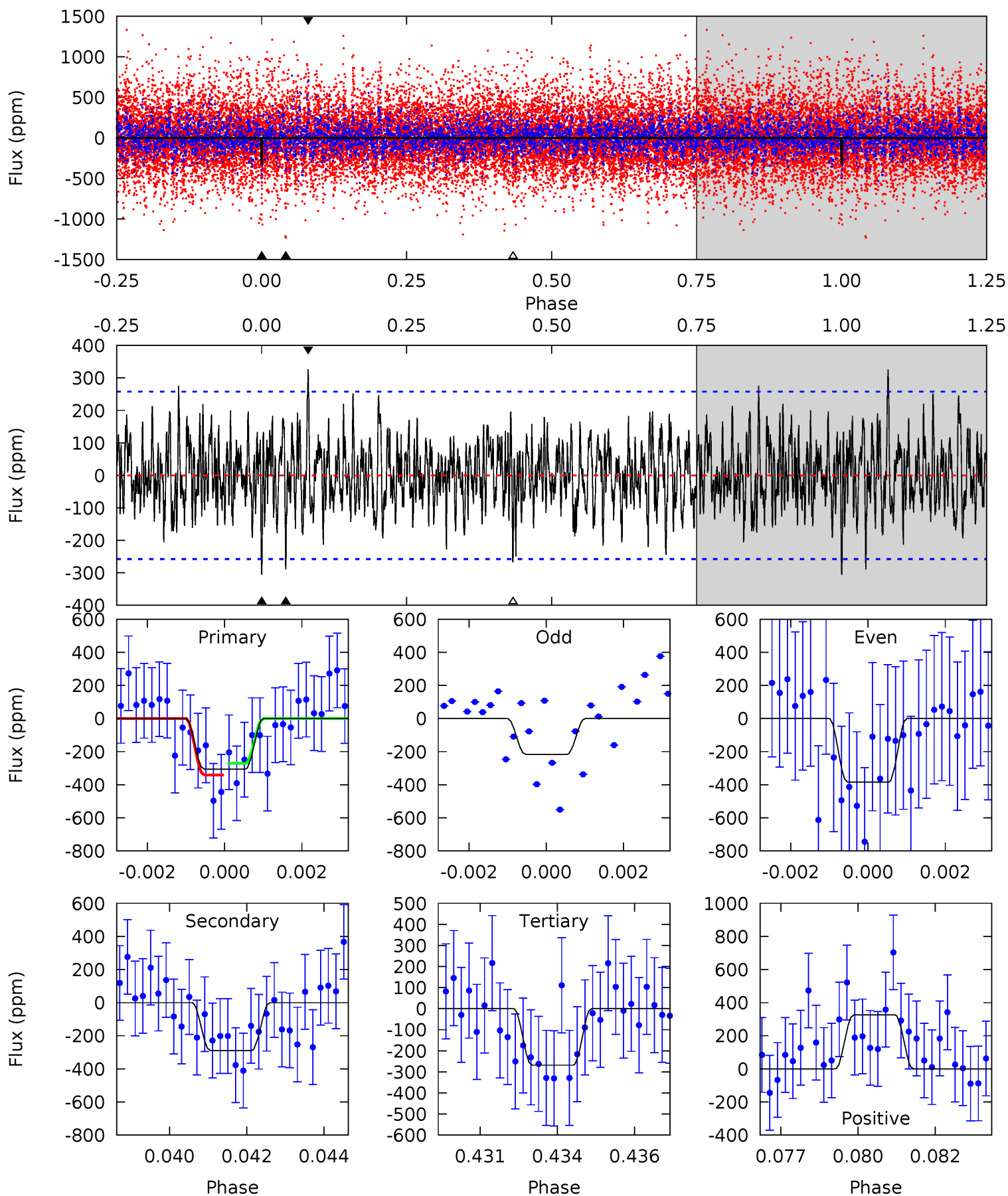
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.61	5.98	5.11	5.05	5.19	2.85	1.50	3.50	3.56	0.87	0.93	1.59	0.77	0.37	0.55



Alt Model-Shift Uniqueness Test

001434800-03, P = 60.647549 Days, E = 75.075884 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.29	5.96	5.52	6.72	5.31	3.06	1.76	0.77	-0.43	0.44	-0.76	1.72	1.31	0.52	0.72



Stellar Parameters For KIC 001434800

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6814^{+189}_{-284}	$4.128^{+0.190}_{-0.171}$	$-0.240^{+0.250}_{-0.300}$	$1.643^{+0.492}_{-0.447}$	$1.329^{+0.194}_{-0.237}$	$0.422^{+0.481}_{-0.194}$
	+3%/-4%	+5%/-4%	+104%/-125%	+30%/-27%	+15%/-18%	+114%/-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 001434800-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-170 ± 28	$3.04^{+0.87}_{-0.79}$	928^{+76}_{-66}	5871^{+919}_{-589}	1082^{+918}_{-443}
Alt.	-289 ± 49	$3.06^{+0.86}_{-0.80}$	929^{+77}_{-64}	6716^{+1124}_{-747}	1834^{+1555}_{-754}

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

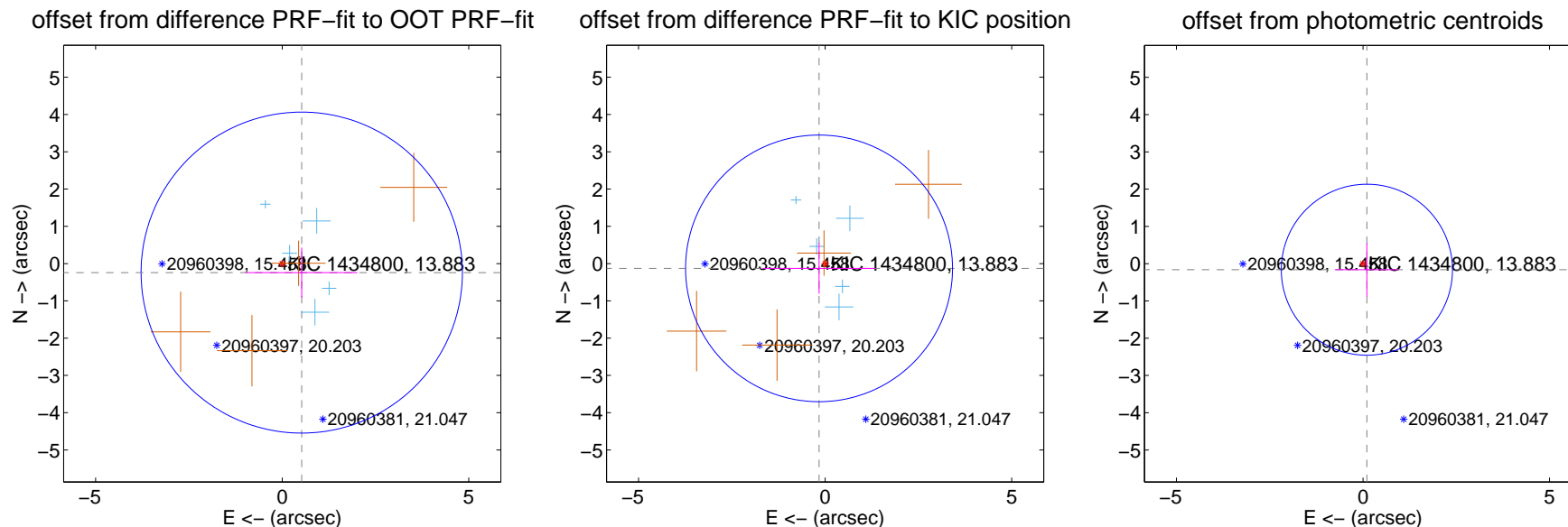
DV Centroid Data

Supplemental centroid analysis for 001434800-03. Kepler magnitude: 13.88. Transit SNR 6.73

There are 5 quarters with good PRF difference image offsets

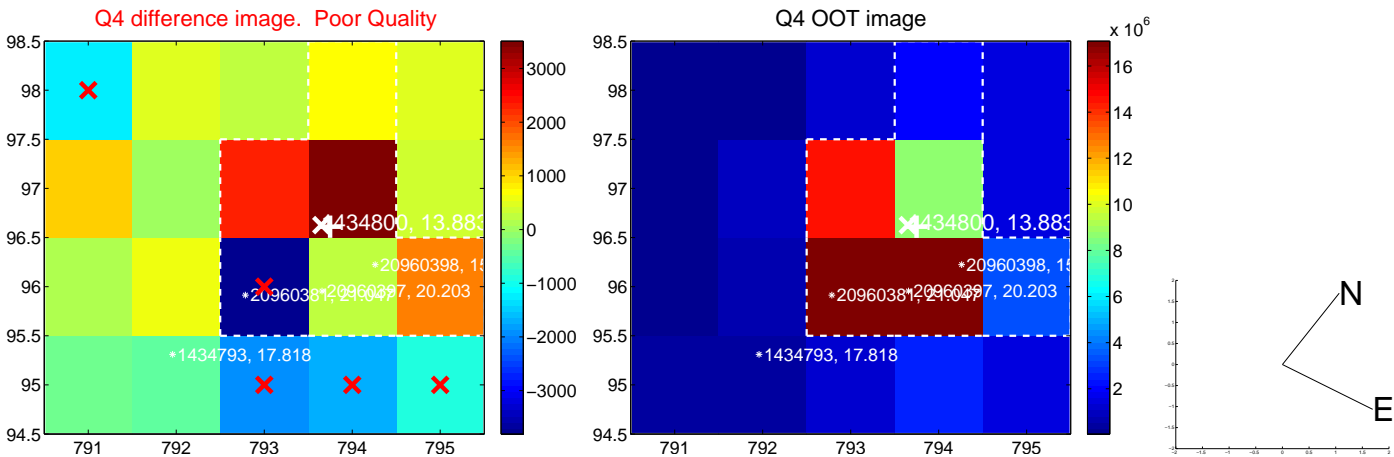
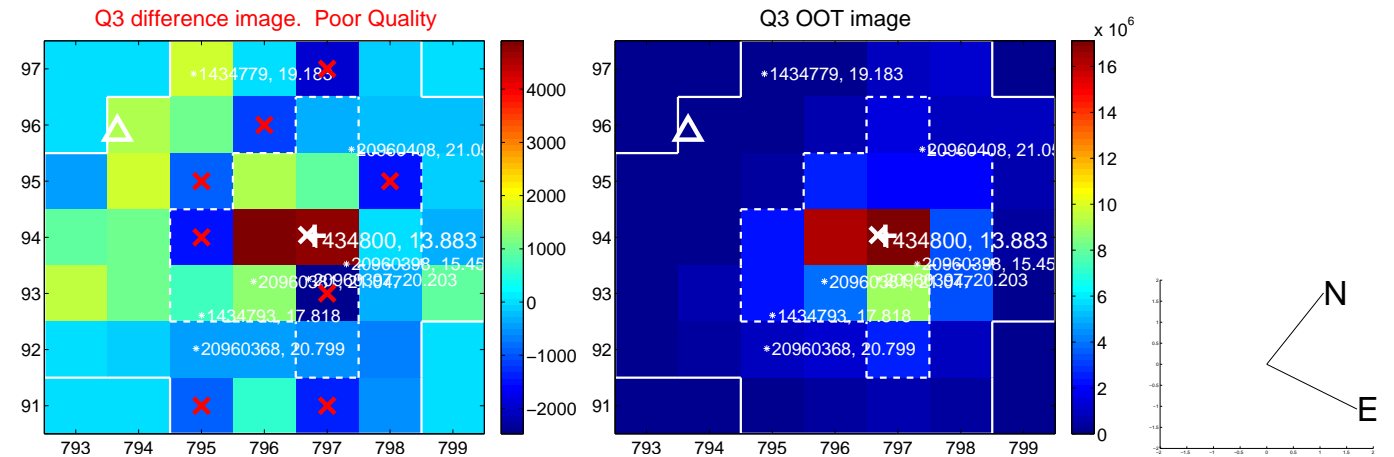
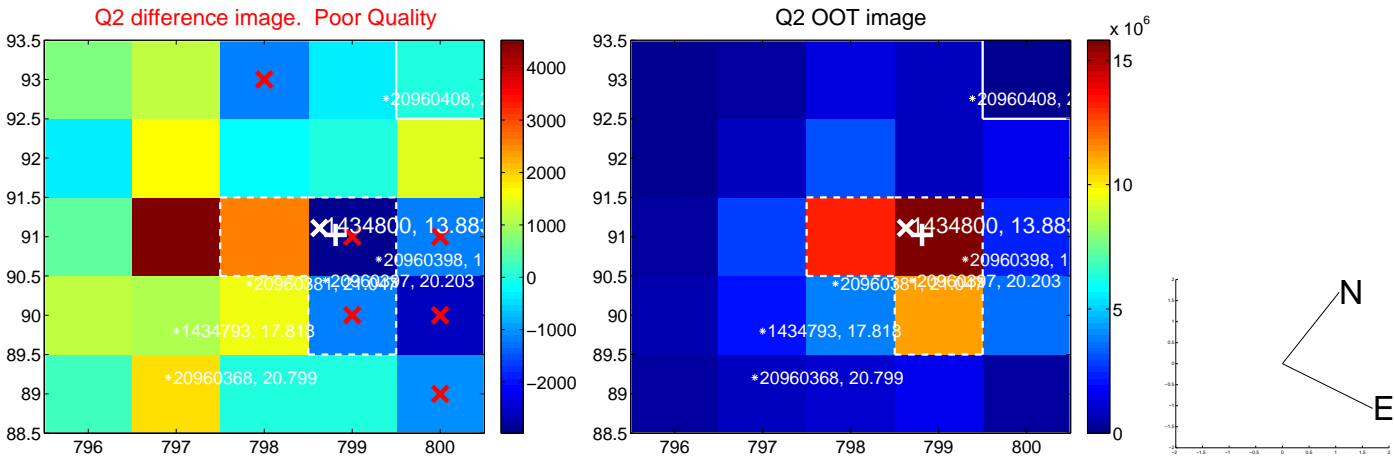
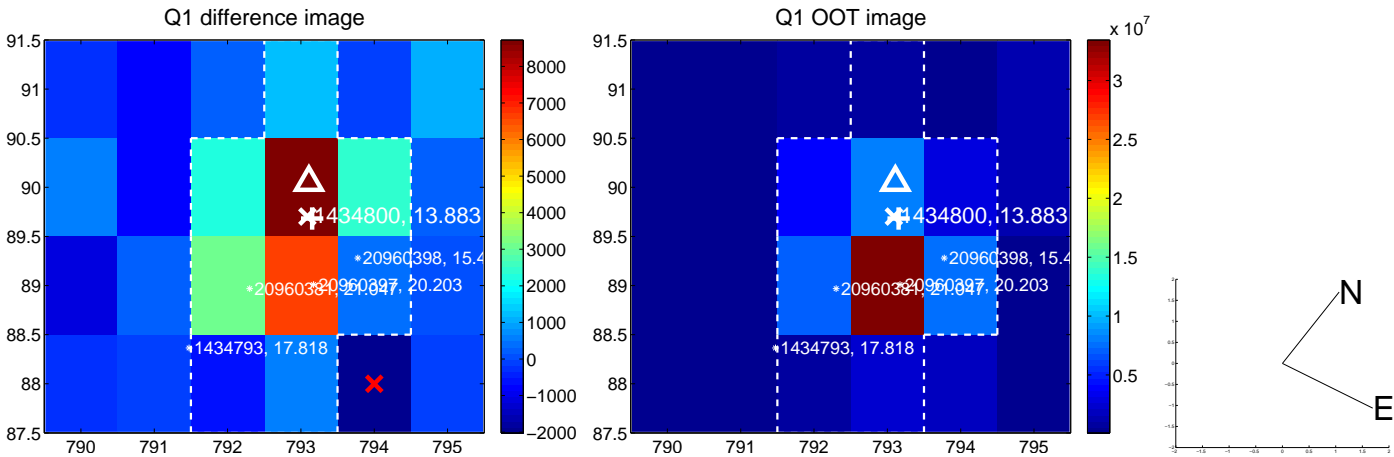
The direct PRF centroid is offset from the target star catalog position by about 0.50 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.577 ± 1.435	0.40	-0.524 ± 1.495	-0.242 ± 0.670
PRF-fit source offset from KIC position	0.207 ± 1.192	0.17	0.163 ± 1.516	-0.128 ± 0.680
photometric centroid source offset	0.19 ± 0.76	0.25	-0.10 ± 0.86	-0.16 ± 0.72

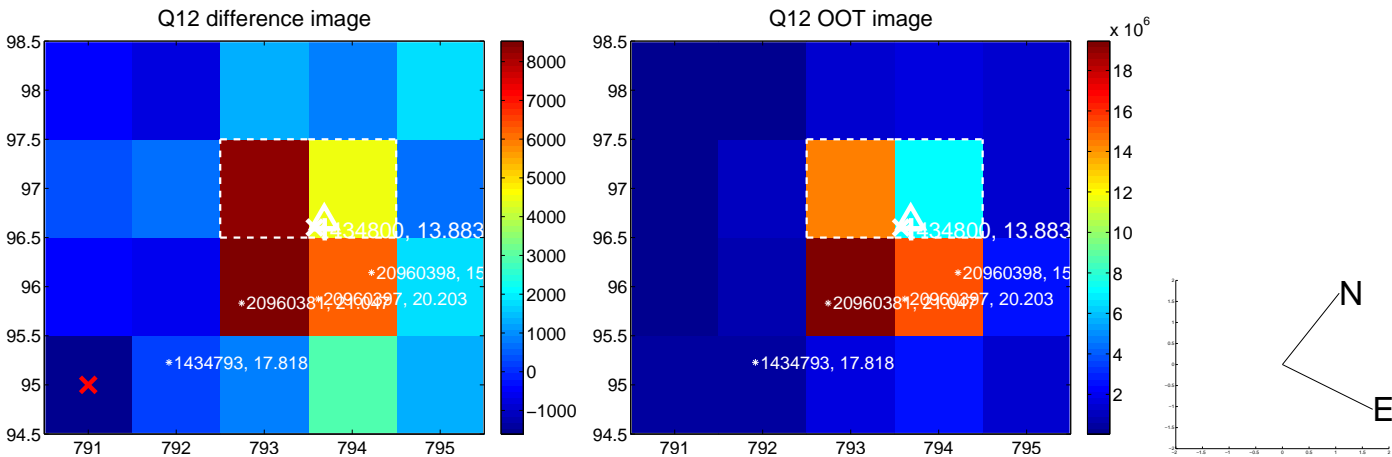
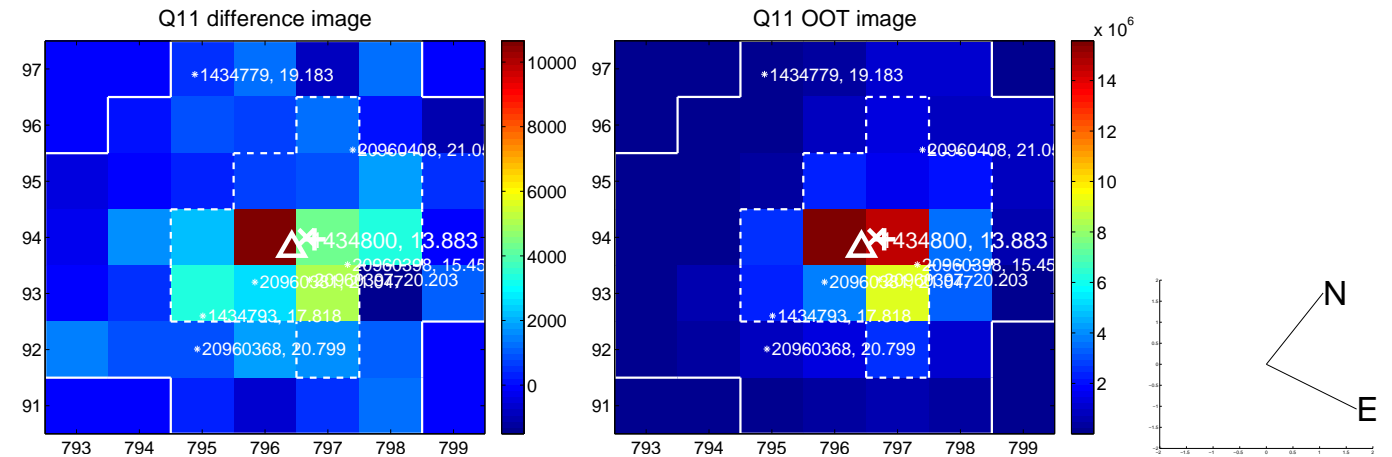
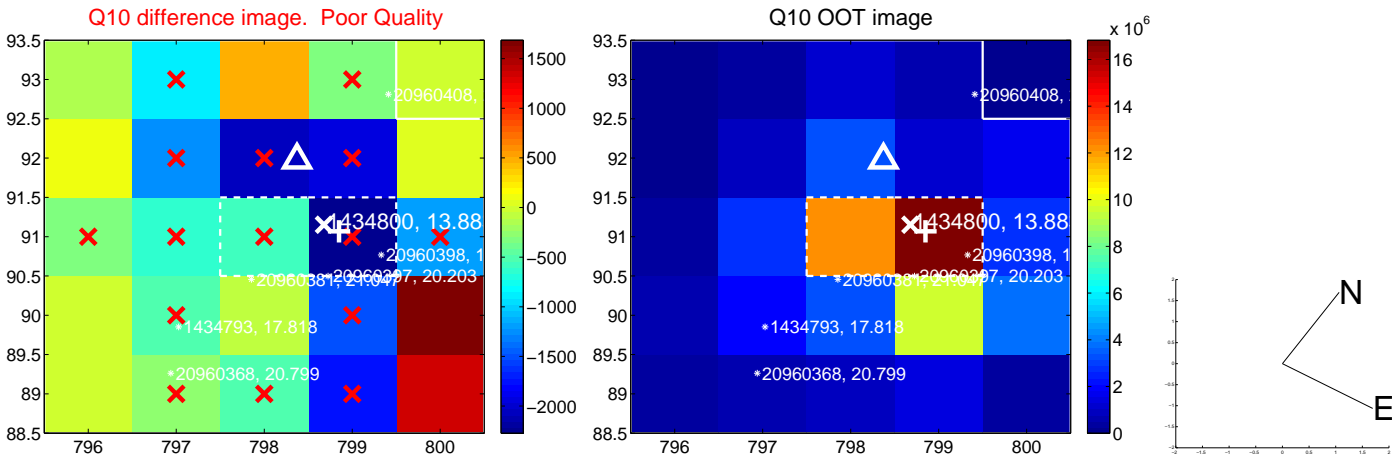
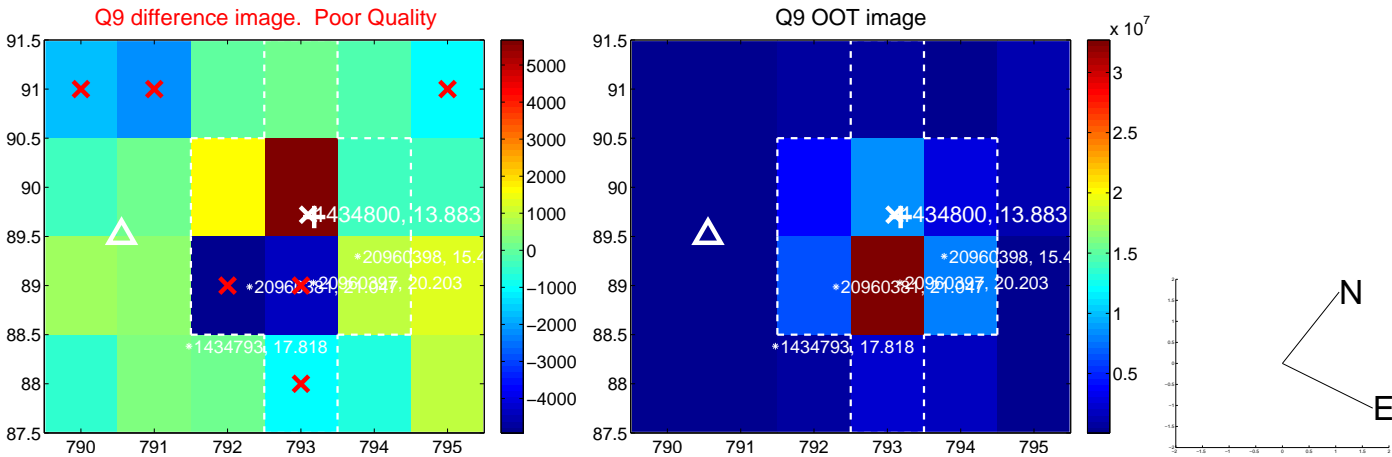


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

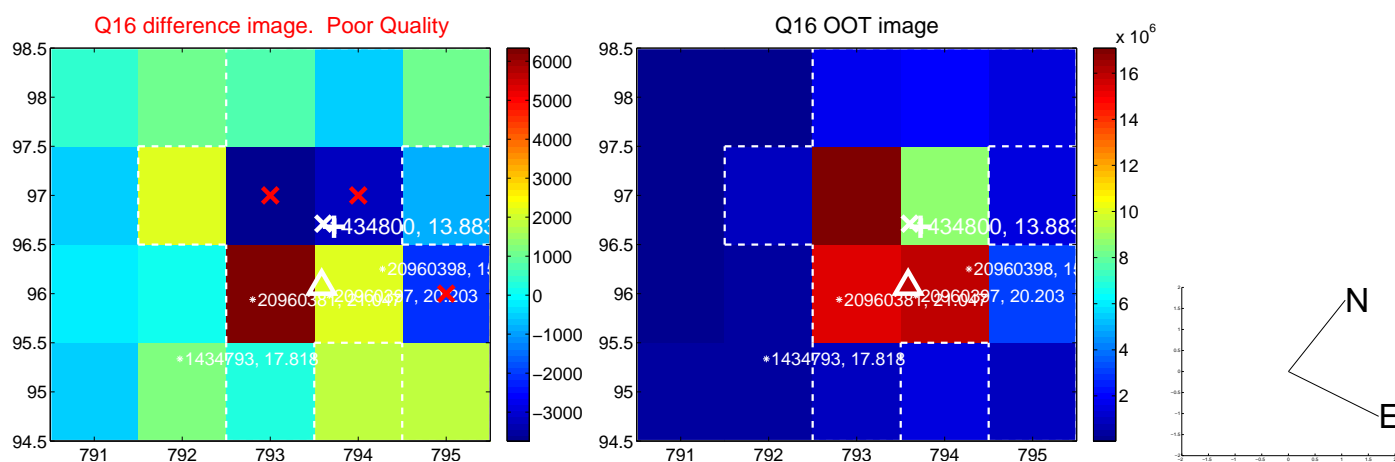
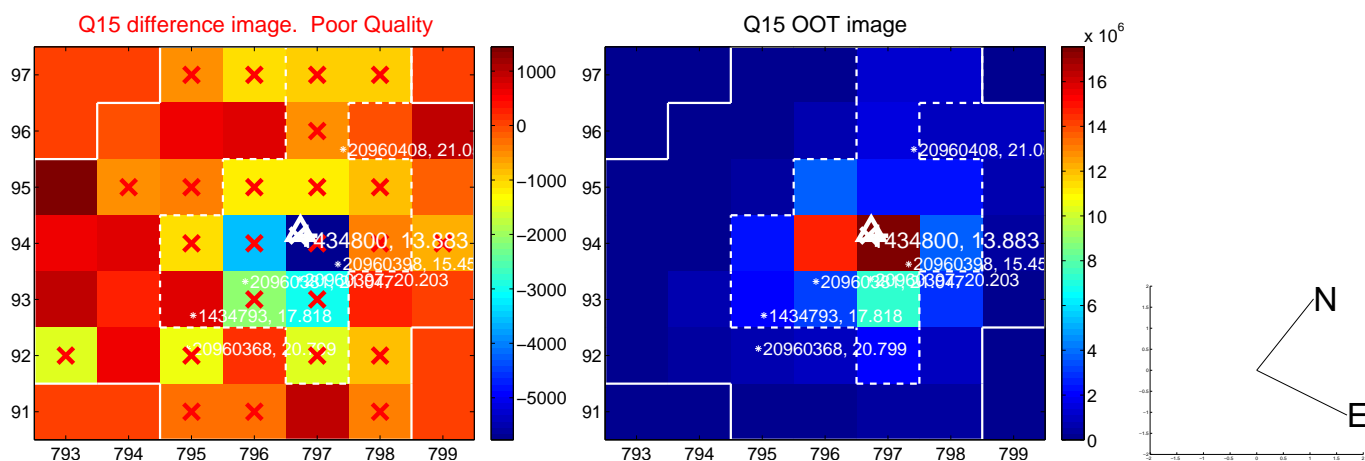
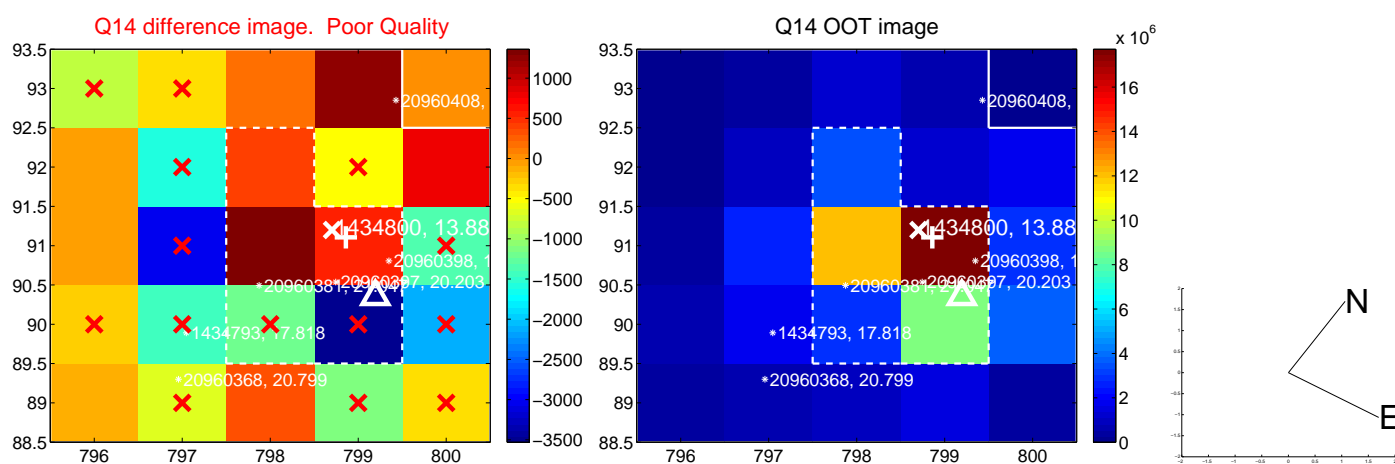
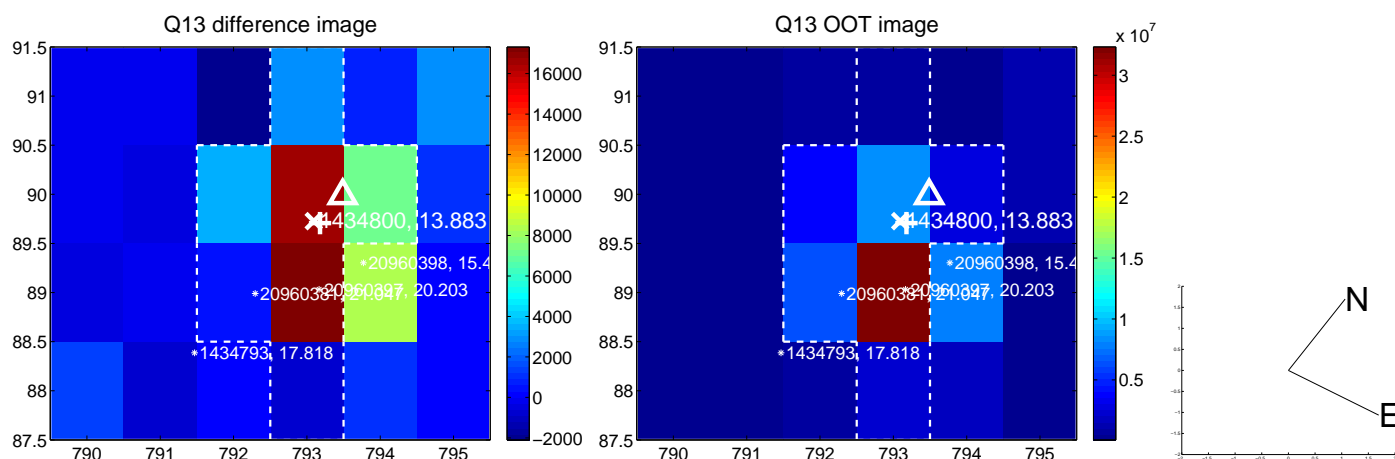
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



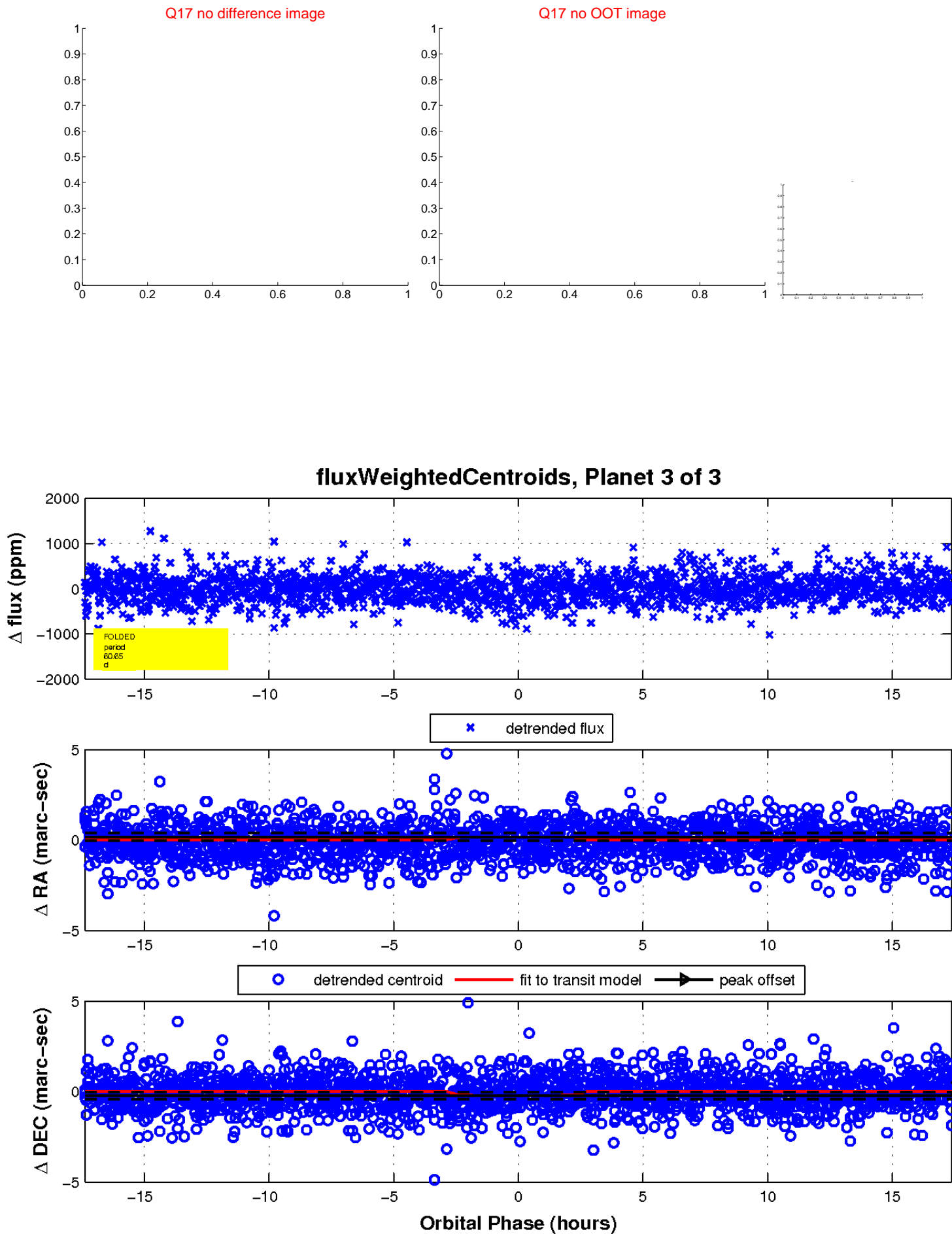
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

