

KIC 011197654

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})
011197654-01	OBS	No	2.301456	133.303360	13.0	4.980	13.2	10.8	1.92	8403	0.91	9170.15
011197654-02	OBS	No	2.301382	132.300813	11.2	6.045	11.8	11.2	1.92	8403	0.69	9170.54
011197654-03	OBS	No	2.301486	131.684679	134.2	6.000	13.5	-1.0	1.92	8403	2.25	9169.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011197654-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
011197654-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD
011197654-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

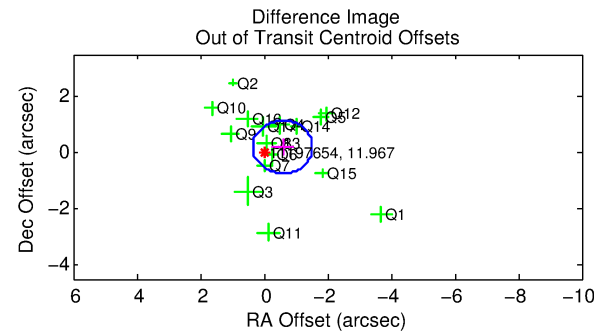
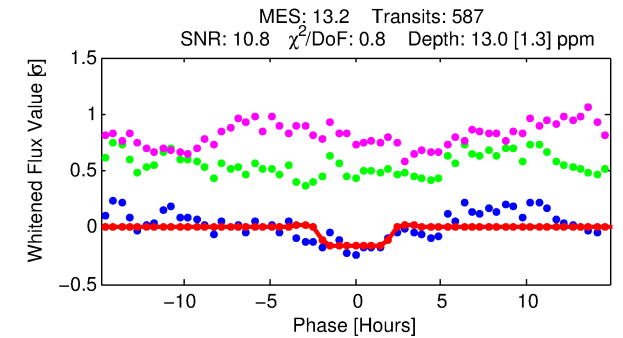
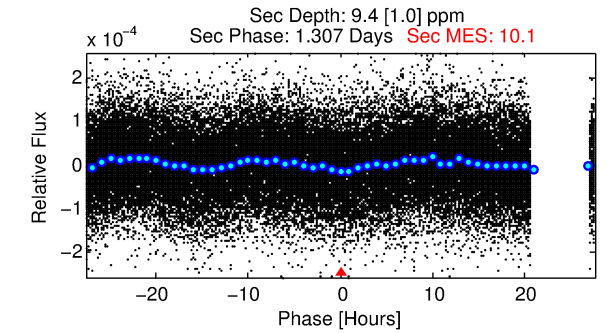
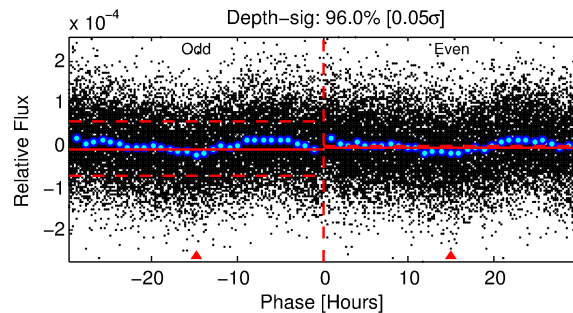
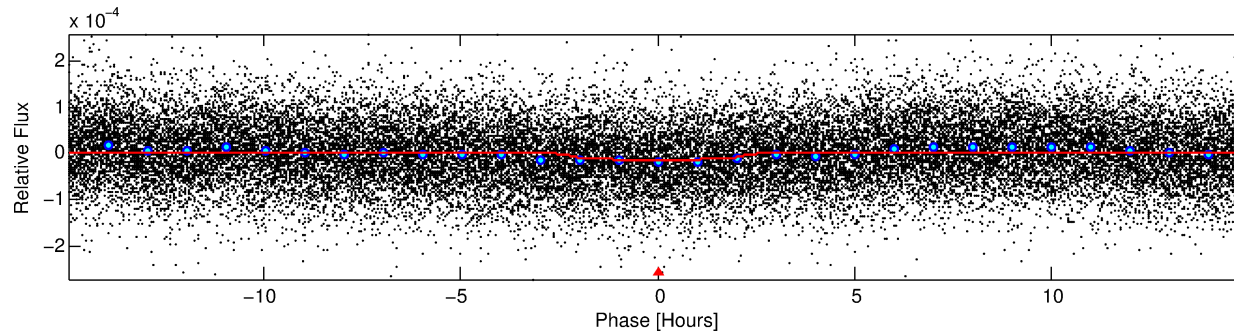
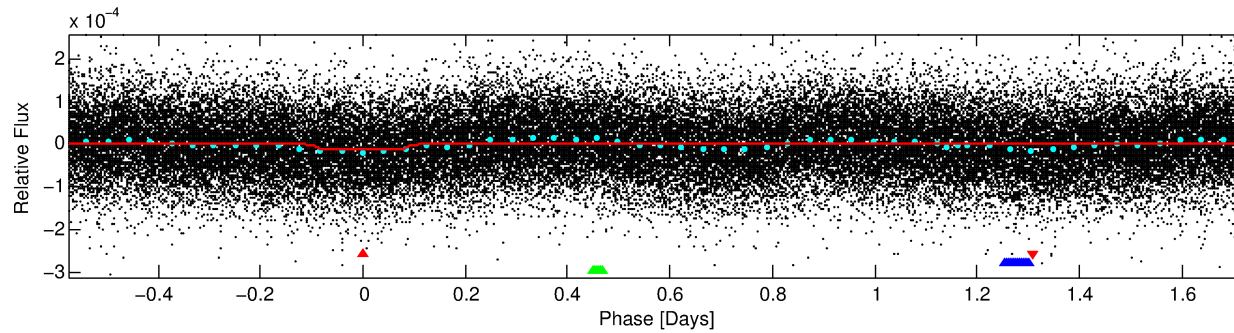
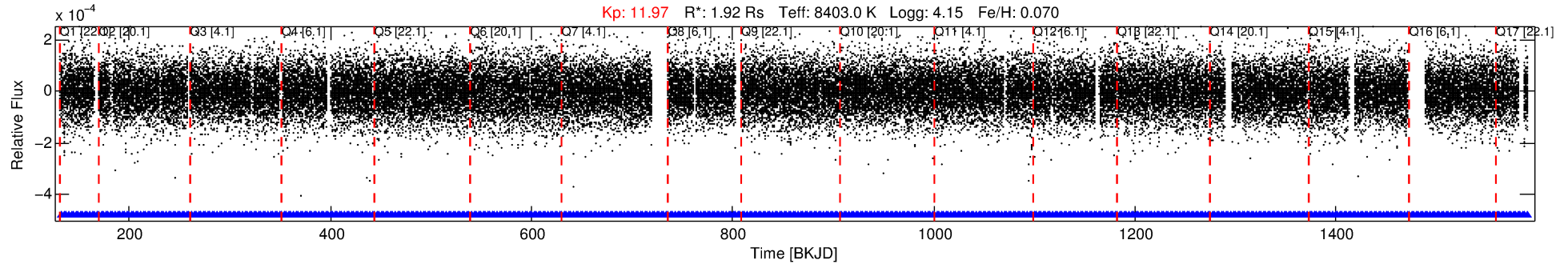
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011197654-01

No Significant Match Found

DV One-Page Summary

KIC: 11197654 Candidate: 1 of 3 Period: 2.301 d



DV Fit Results:

Period = 2.30146 [0.00002] d
Epoch = 133.3034 [0.0055] BKJD
Rp/R* = 0.0043 [0.0004]
a/R* = 1.21 [0.19]
b = 0.99 [0.01]
Seff = 9170.15 [3339.10]
Teq = 2495 [227] K
Rp = 0.91 [0.25] Re
a = 0.0423 [0.0091] AU
Ag = 11.25 [4.14] [2.48 σ]
Teffp = 7066 [480] K [8.60 σ]

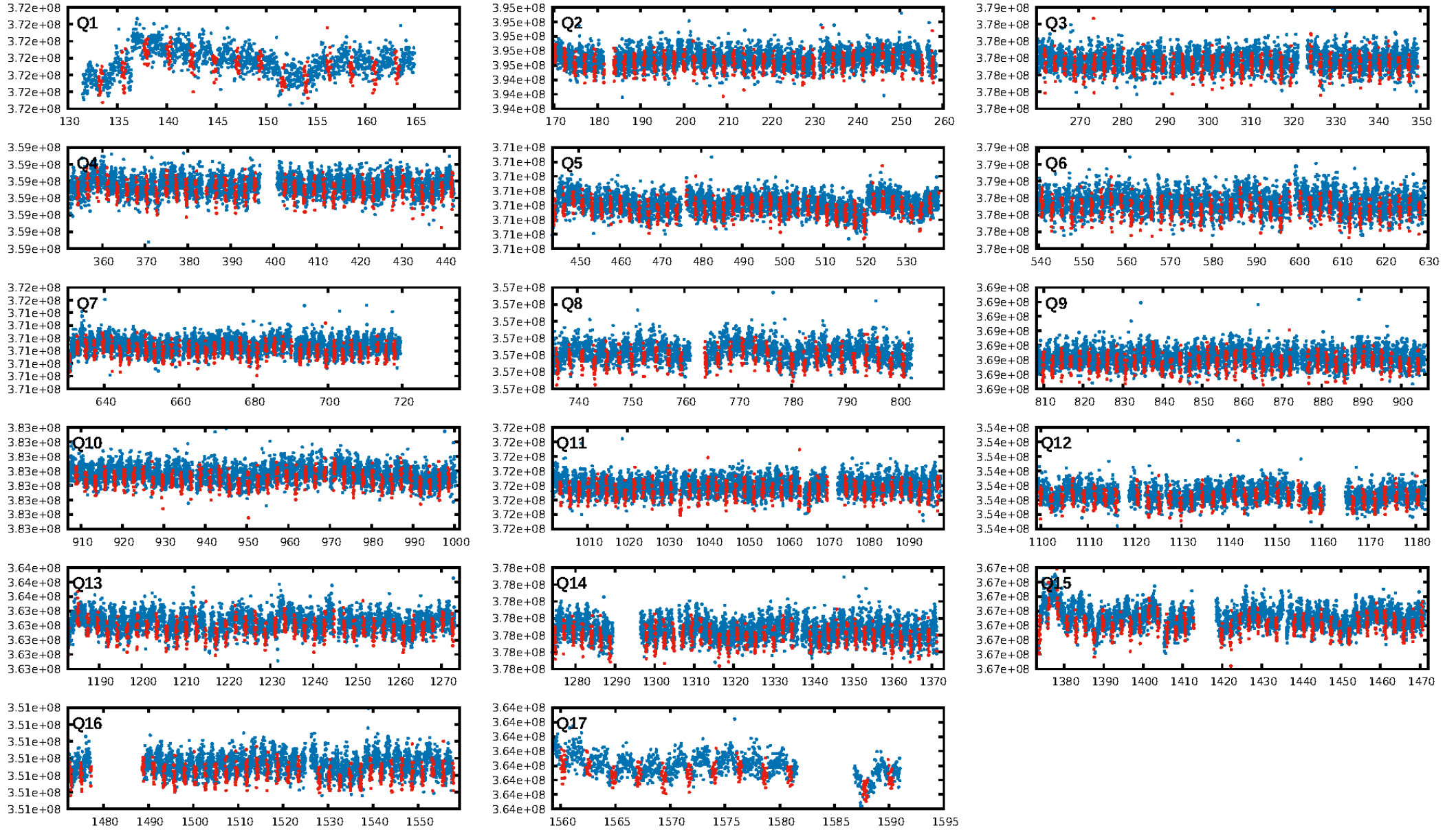
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.57e-42
RollingBand-fgt: 1.00 [561/561]
GhostDiagnostic-chr: 6.012
Centroid-sig: 0.0%
Centroid-so: 2.297 arcsec [1.95 σ]
OotOffset-rm: 0.622 arcsec [1.99 σ]
KicOffset-rm: 0.808 arcsec [2.56 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

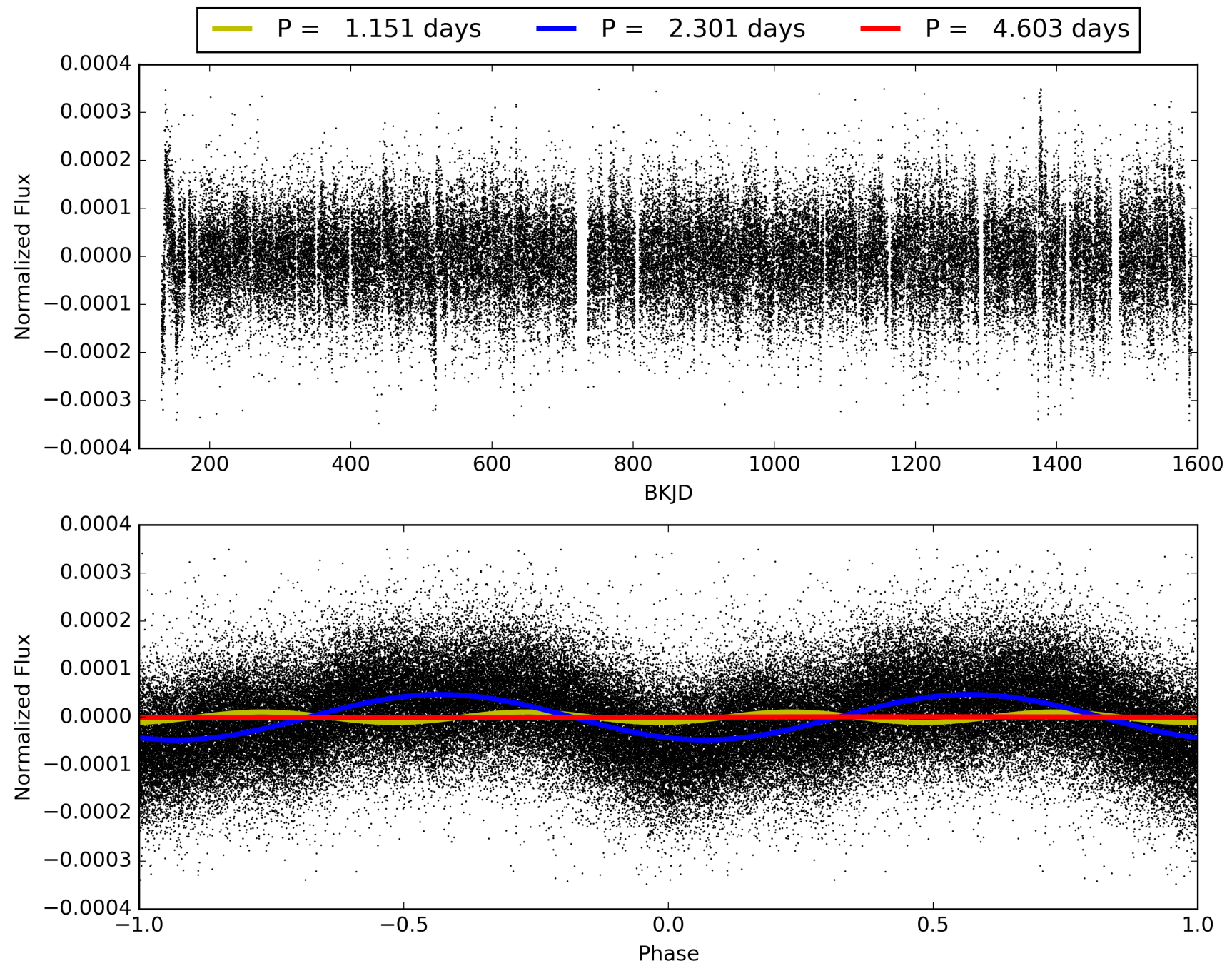
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:38:23 Z

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

TCE 011197654-01, PDC Light Curves

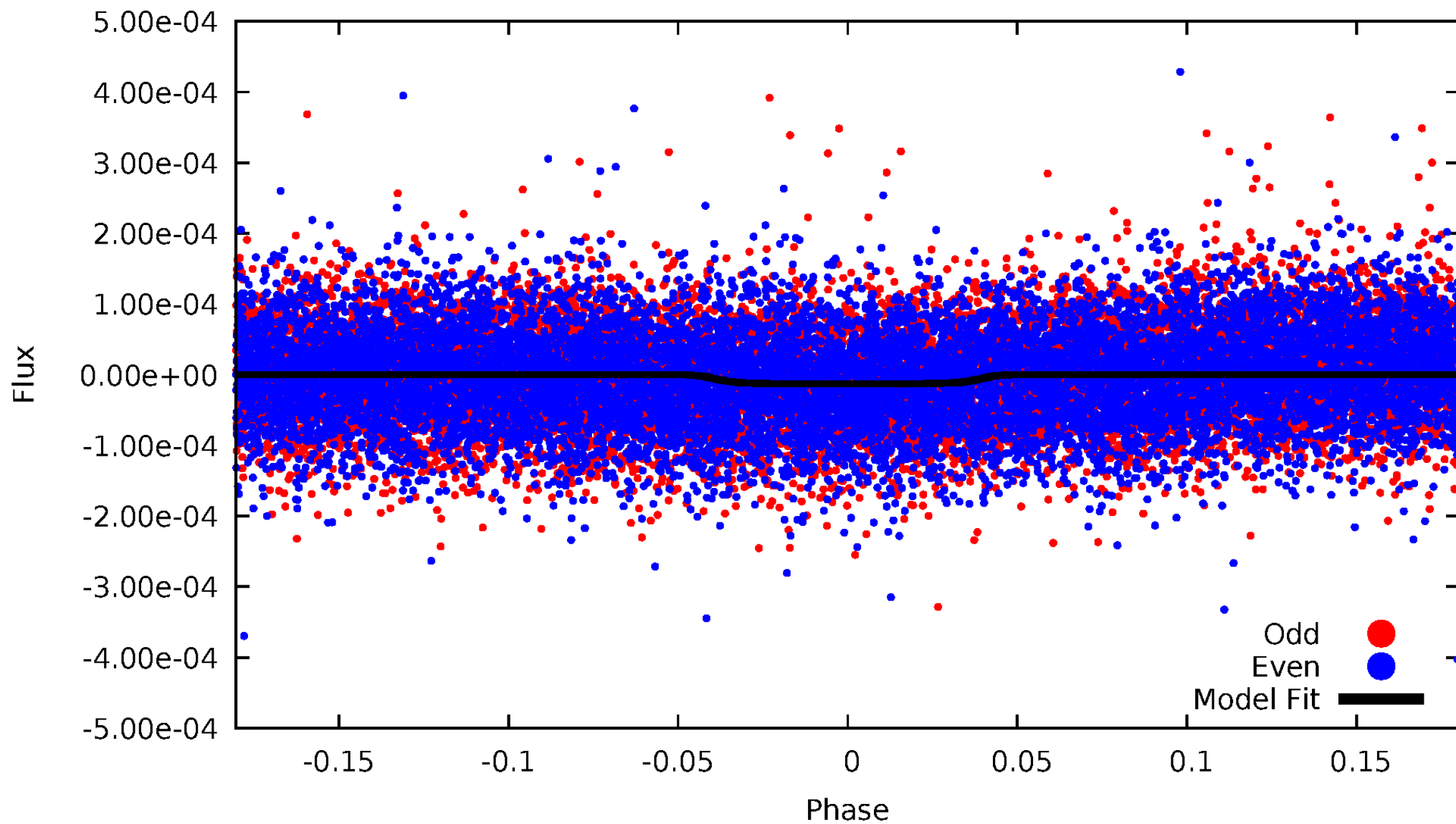


TCE 011197654-01



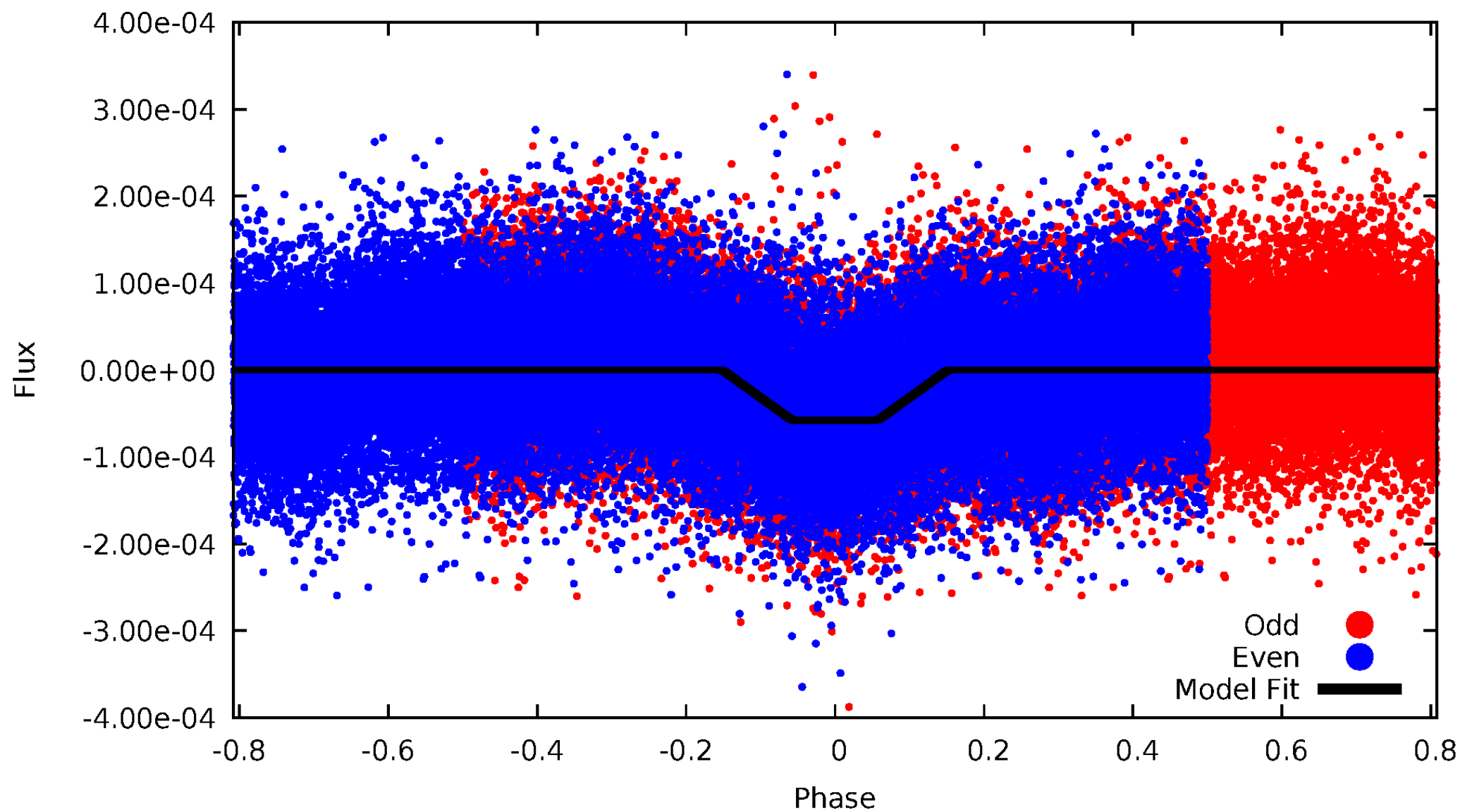
DV Odd/Even

TCE 011197654-01



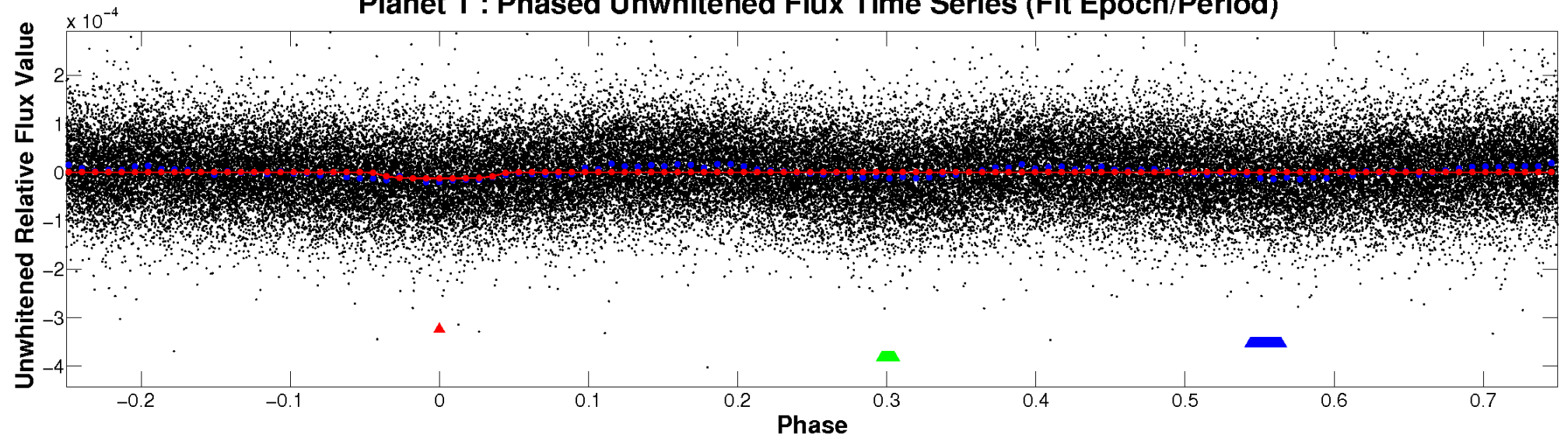
ALT Odd/Even

TCE 011197654-01

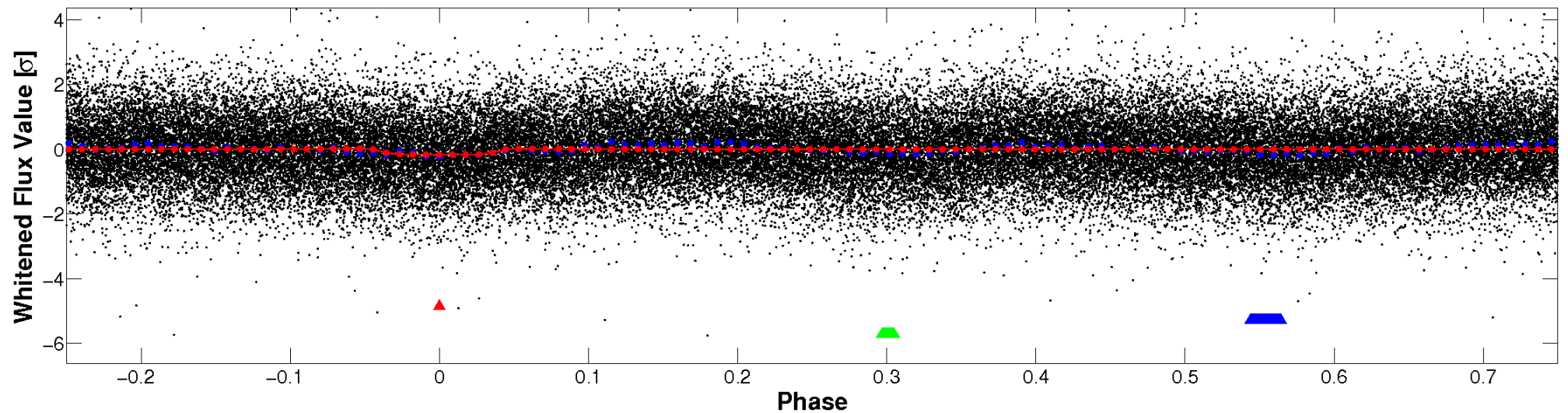


Non-Whitened Vs. Whitened Light Curve

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

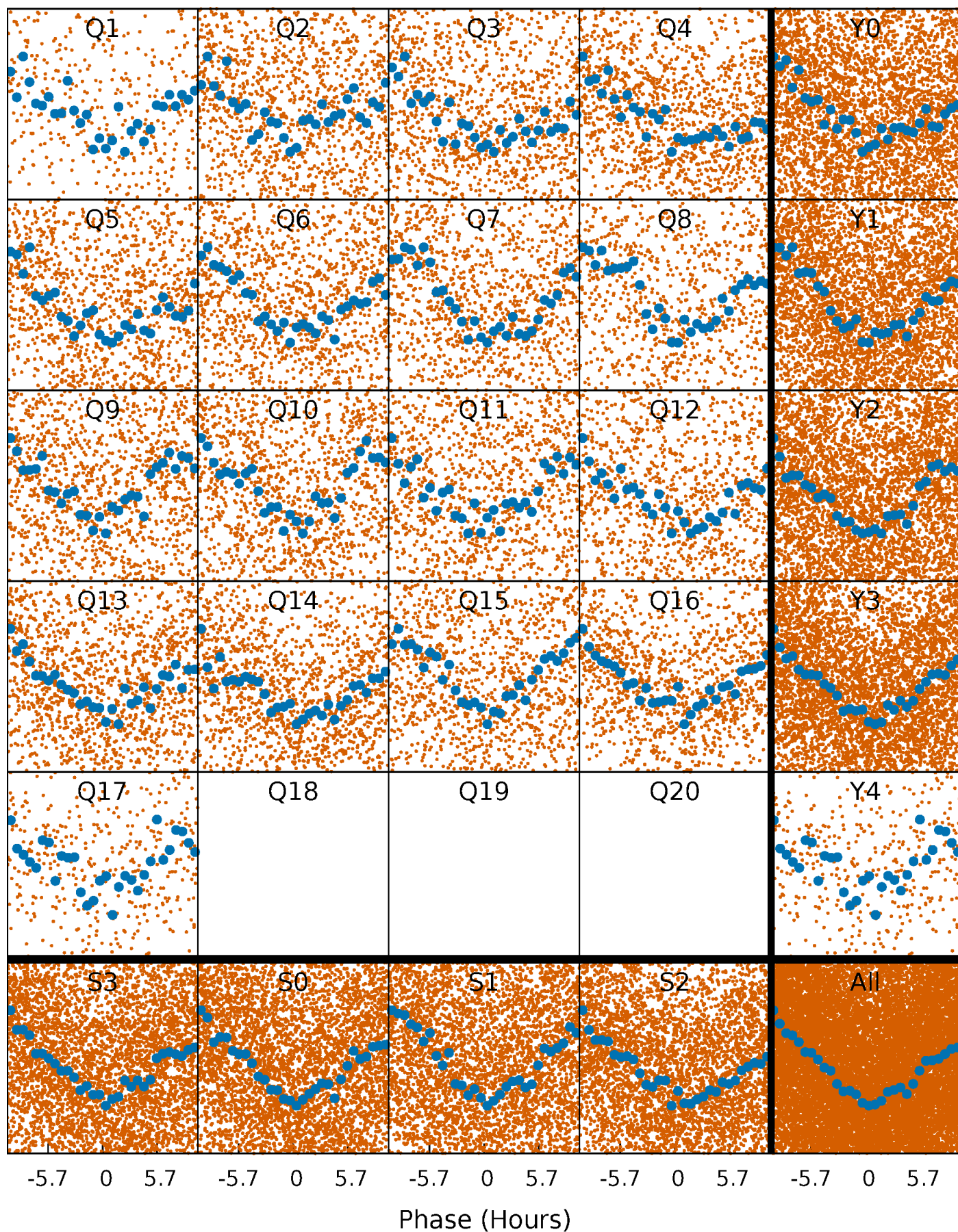


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



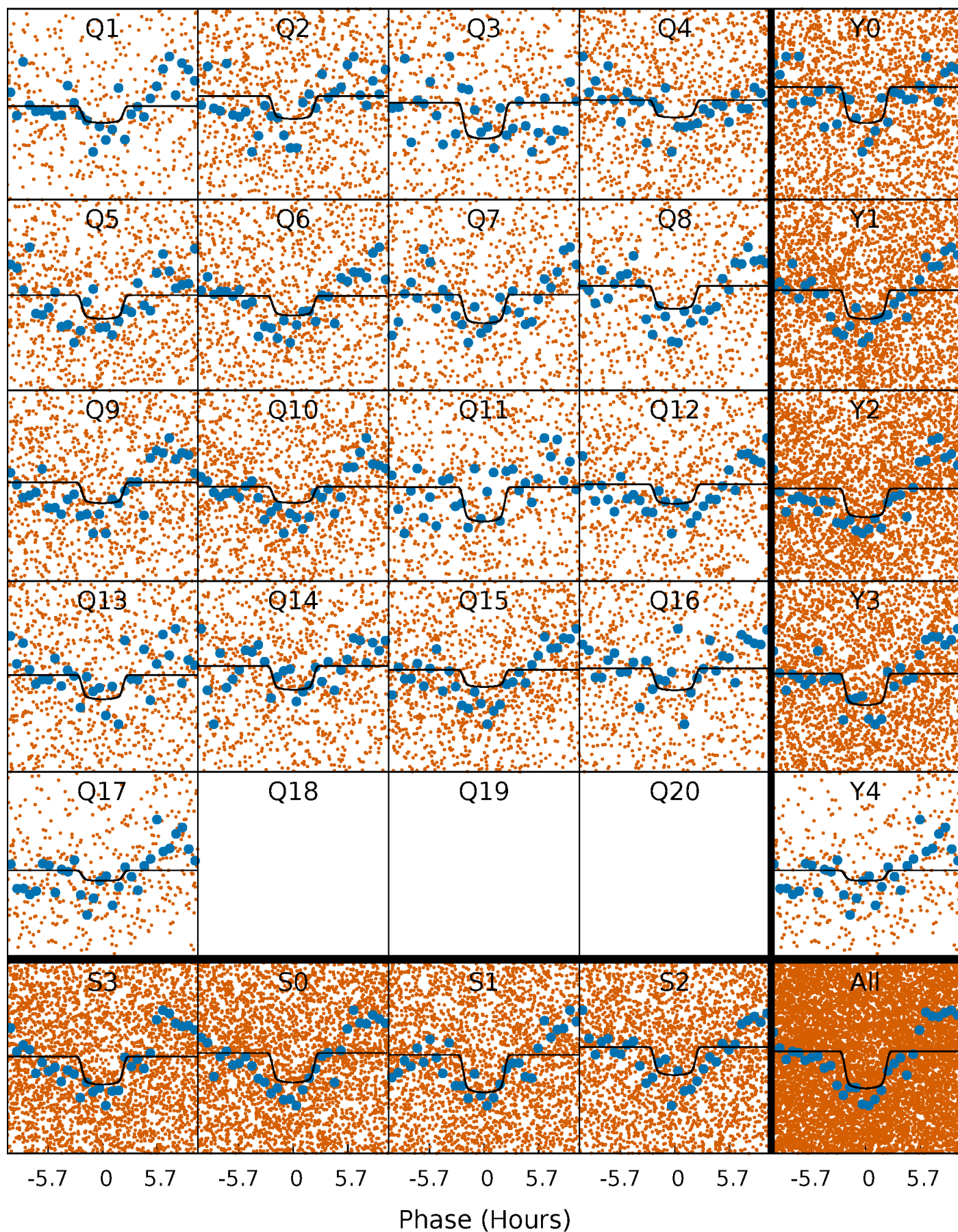
PDC Quarter-Phased Transit Curves

TCE 011197654-01 P= 2.301456 Days $T_0=133.303360$ (BKJD)



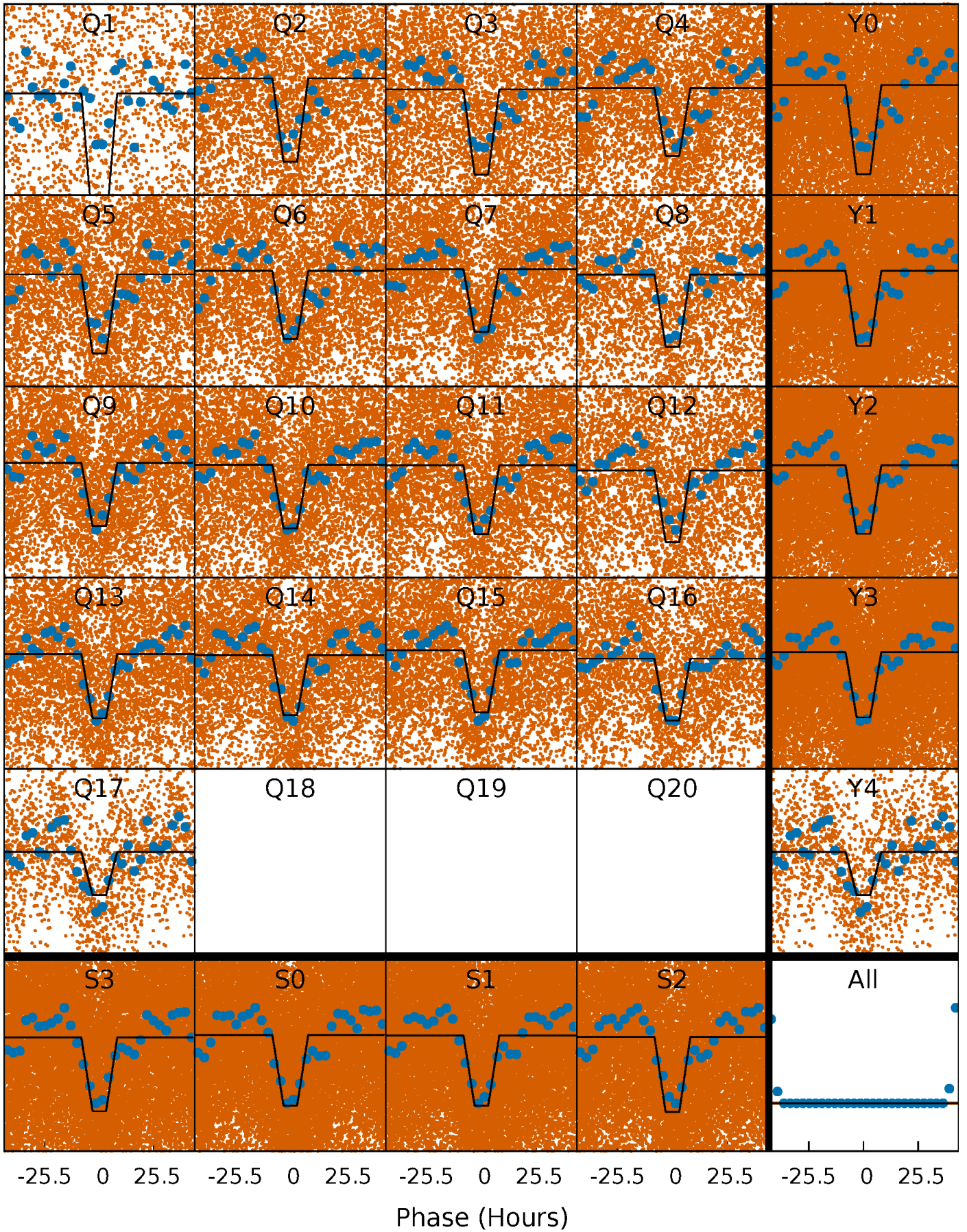
DV Quarter-Phased Transit Curves

TCE 011197654-01 P= 2.301456 Days $T_0=133.303360$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

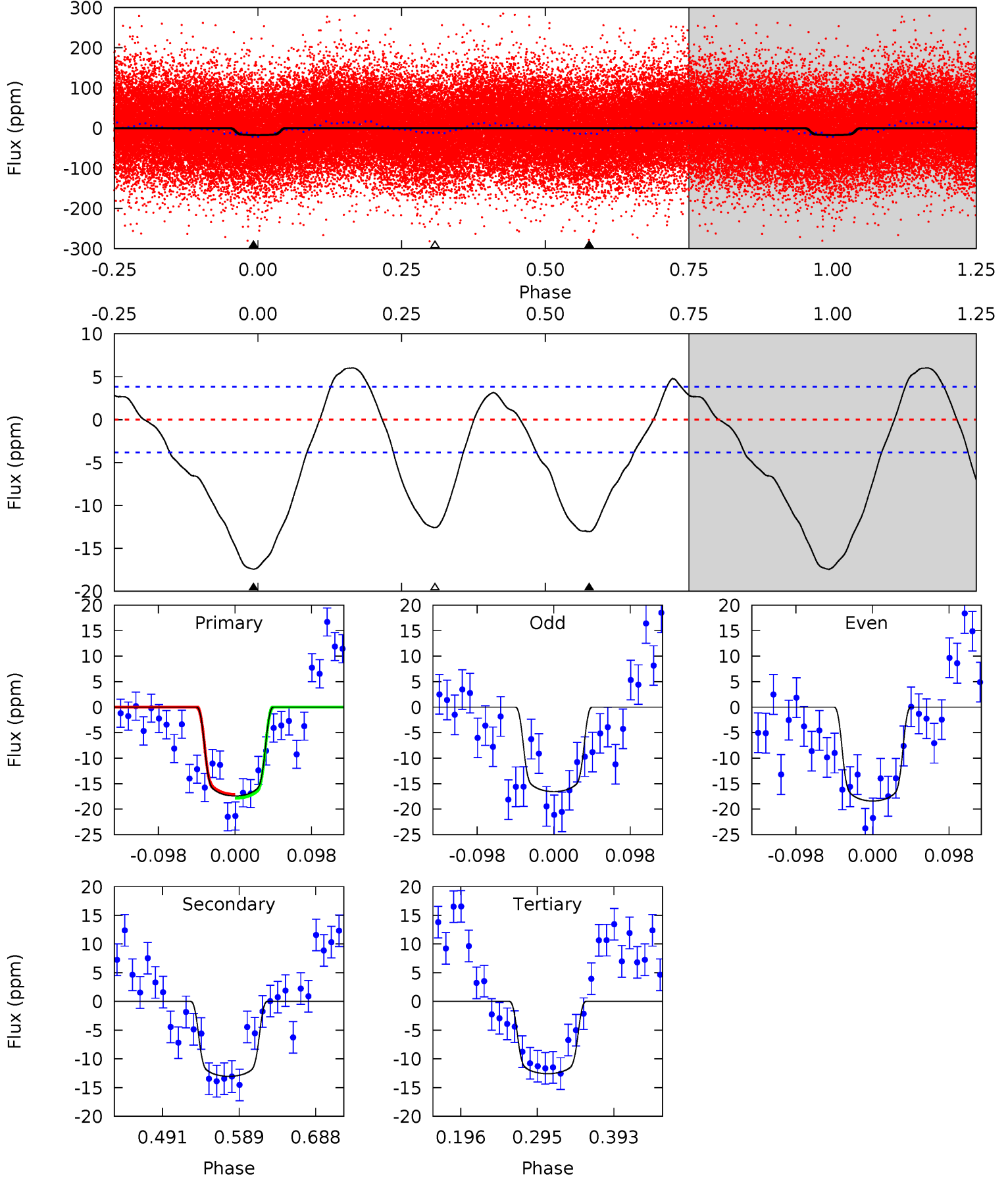
TCE 011197654-01 P= 2.301486 Days $T_0=133.304938$ (BKJD)



DV Model-Shift Uniqueness Test

011197654-01, P = 2.301456 Days, E = 131.001904 Days

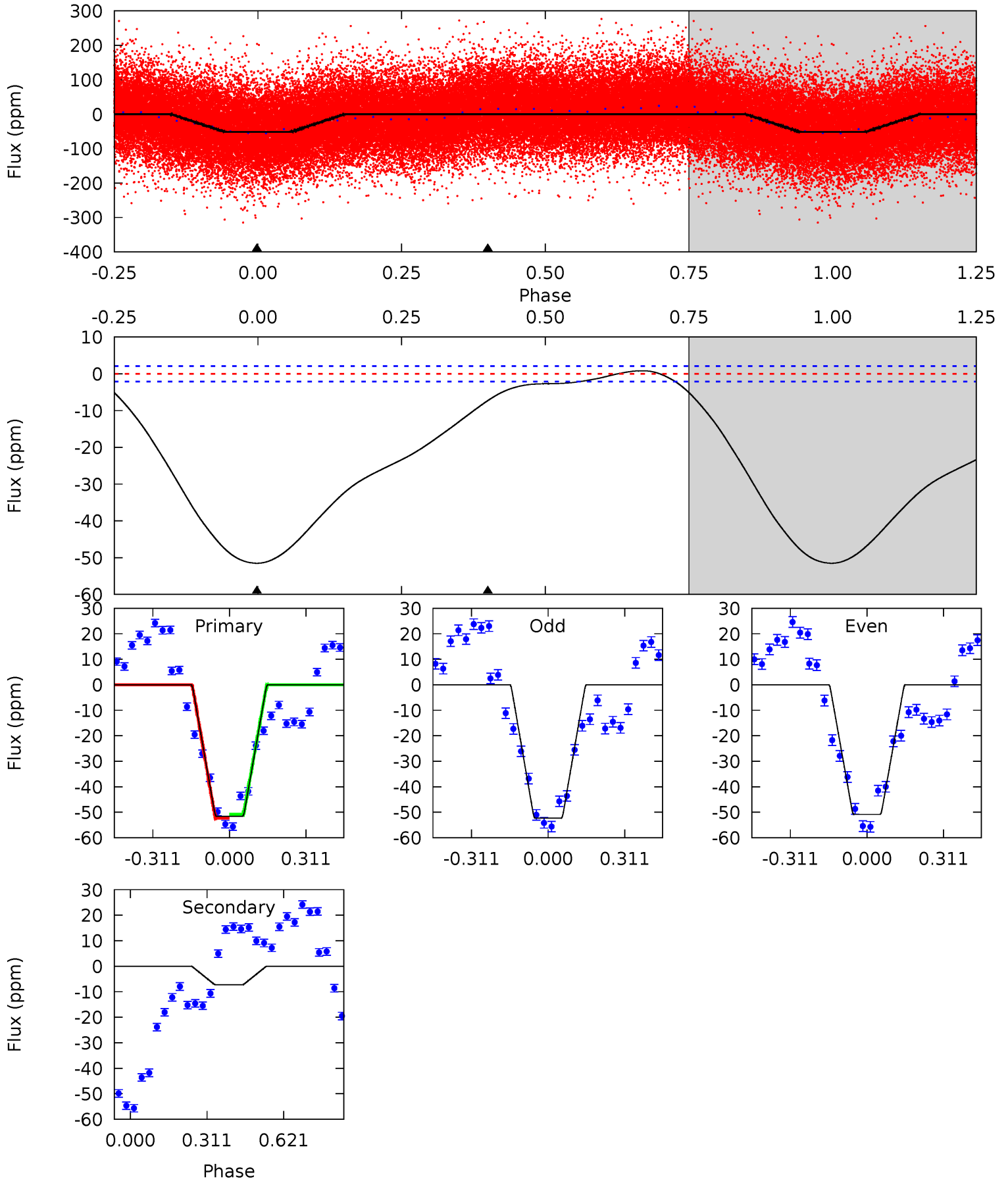
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.8	15.6	15.0	0	4.57	1.65	6.14	5.77	20.8	0.55	15.6	1.11	0.96	0.26	0.43



Alt Model-Shift Uniqueness Test

011197654-01, P = 2.301486 Days, E = 131.003452 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
105.7	14.9	0	0	4.32	1.01	3.58	105.7	105.7	14.9	14.9	1.51	1.00	0.02	1.64



Stellar Parameters For KIC 011197654

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8403^{+231}_{-396}	$4.153^{+0.104}_{-0.169}$	$0.070^{+0.250}_{-0.500}$	$1.917^{+0.496}_{-0.330}$	$1.905^{+0.349}_{-0.349}$	$0.381^{+0.192}_{-0.175}$
	+3%/-5%	+3%/-4%	+357%/-714%	+26%/-17%	+18%/-18%	+50%/-46%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 011197654-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-13 ± 1	$0.92^{+0.14}_{-0.12}$	3511^{+237}_{-217}	7415^{+519}_{-441}	15^{+4}_{-4}
Alt.	-7 ± 0	$1.61^{+0.26}_{-0.19}$	3495^{+243}_{-200}	4790^{+195}_{-175}	$2.719^{+0.714}_{-0.627}$

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

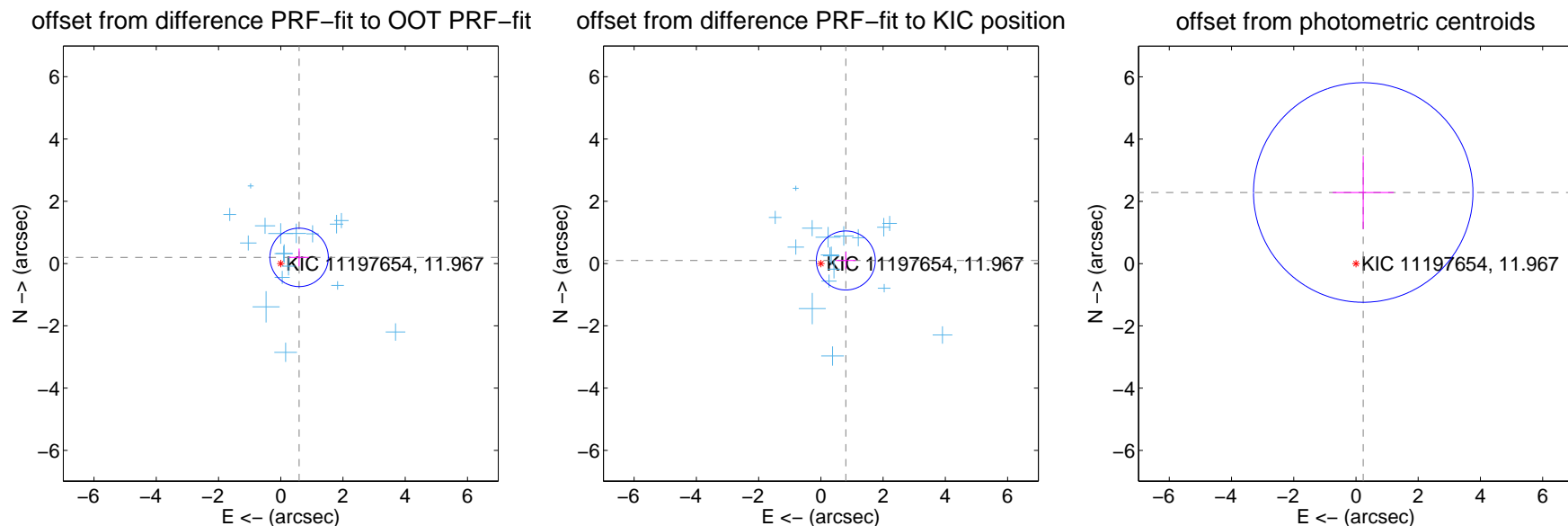
DV Centroid Data

Supplemental centroid analysis for 011197654-01. **Kepler magnitude: 11.97.** Transit SNR 10.78

There are 17 quarters with good PRF difference image offsets

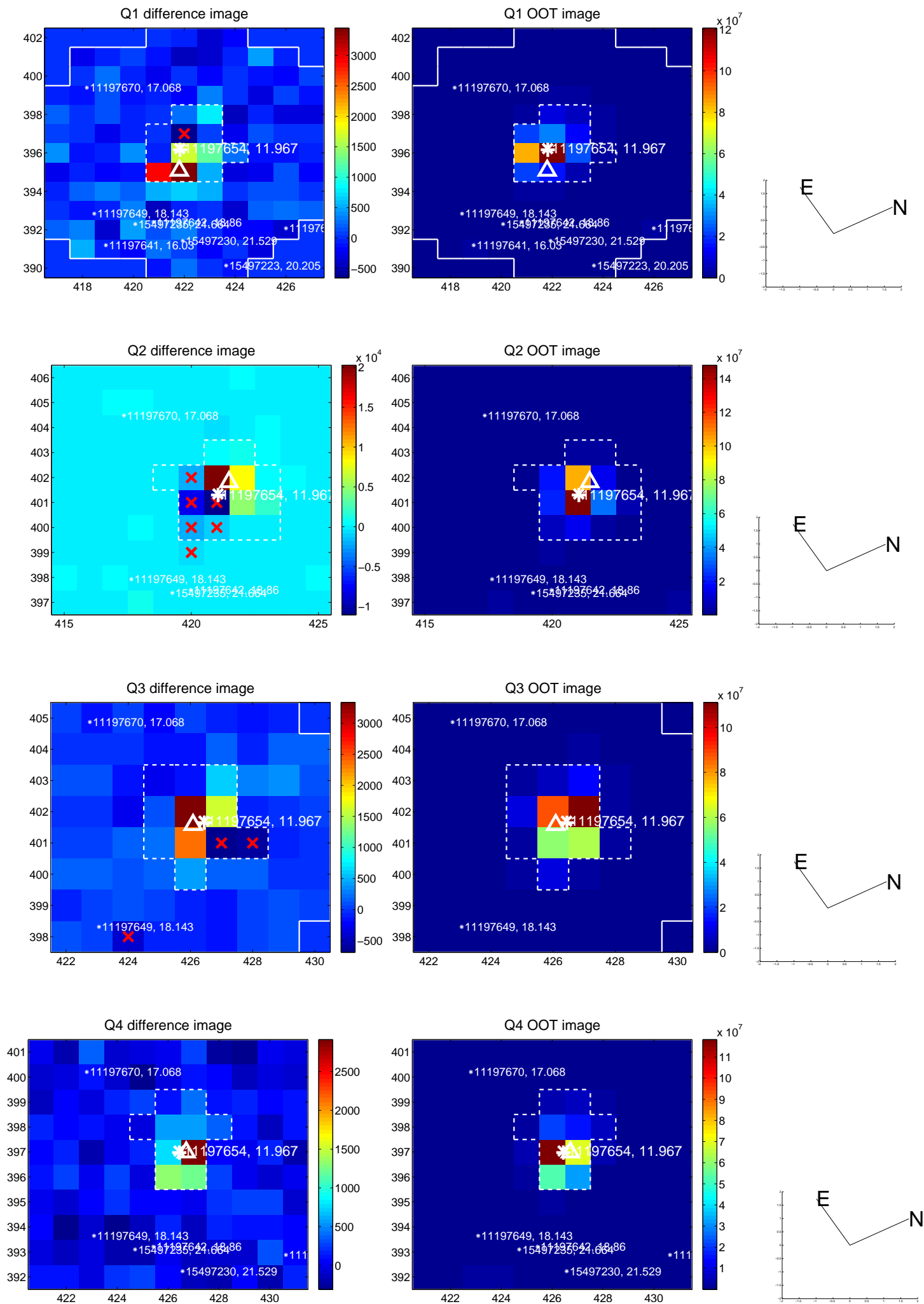
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.622 ± 0.313	1.99	-0.590 ± 0.316	0.198 ± 0.282
PRF-fit source offset from KIC position	0.808 ± 0.316	2.56	-0.802 ± 0.316	0.098 ± 0.281
photometric centroid source offset	2.30 ± 1.18	1.95	-0.23 ± 0.98	2.29 ± 1.18

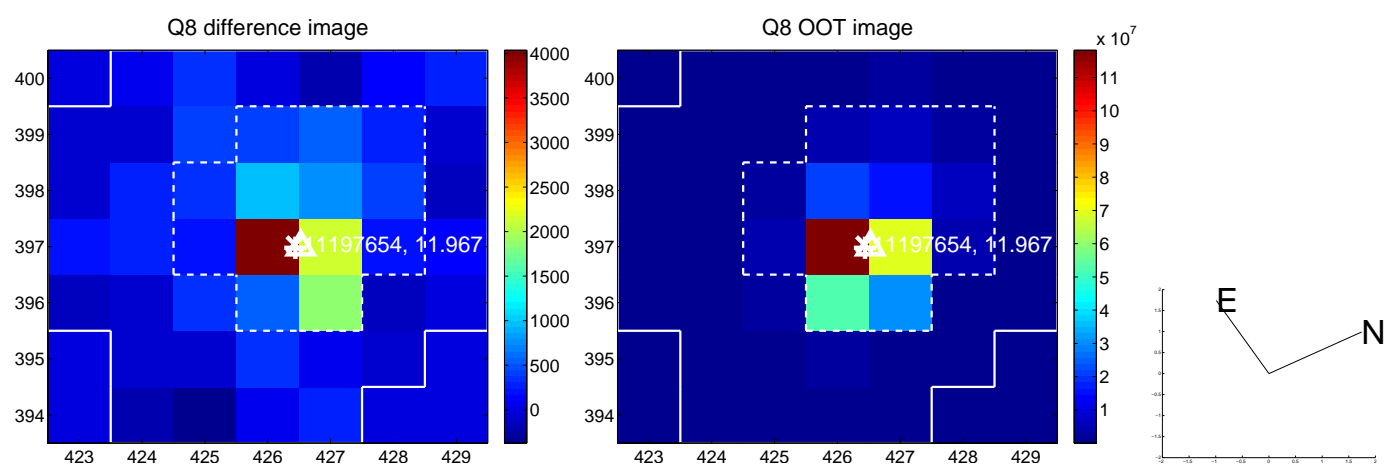
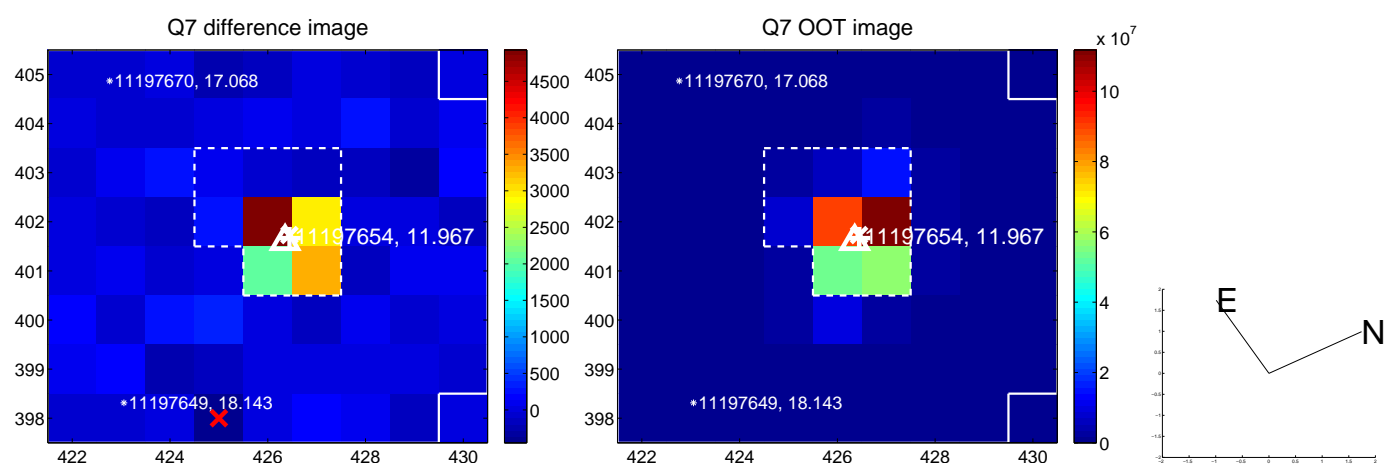
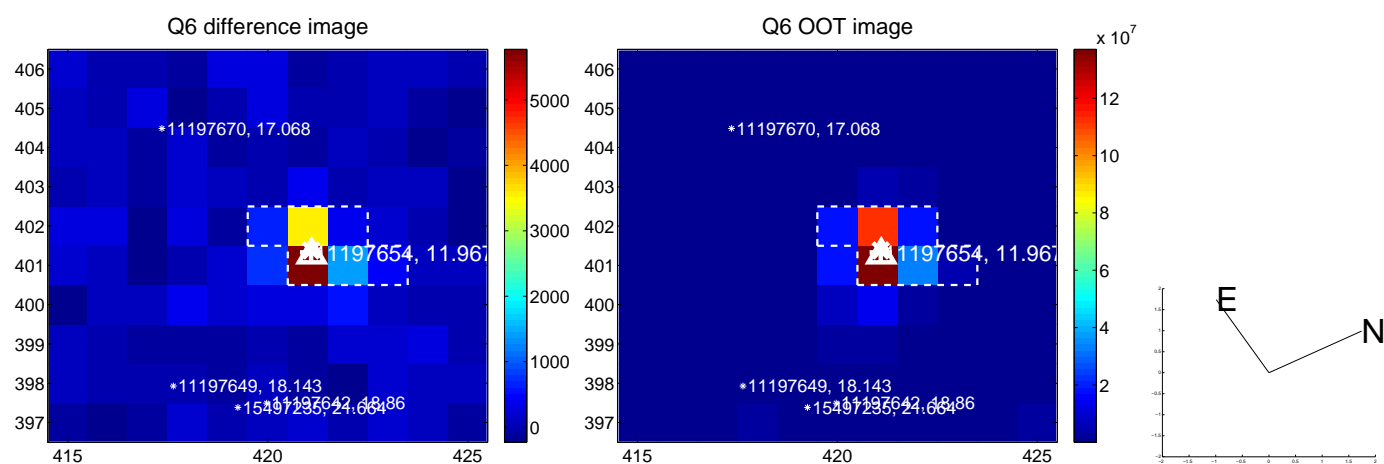
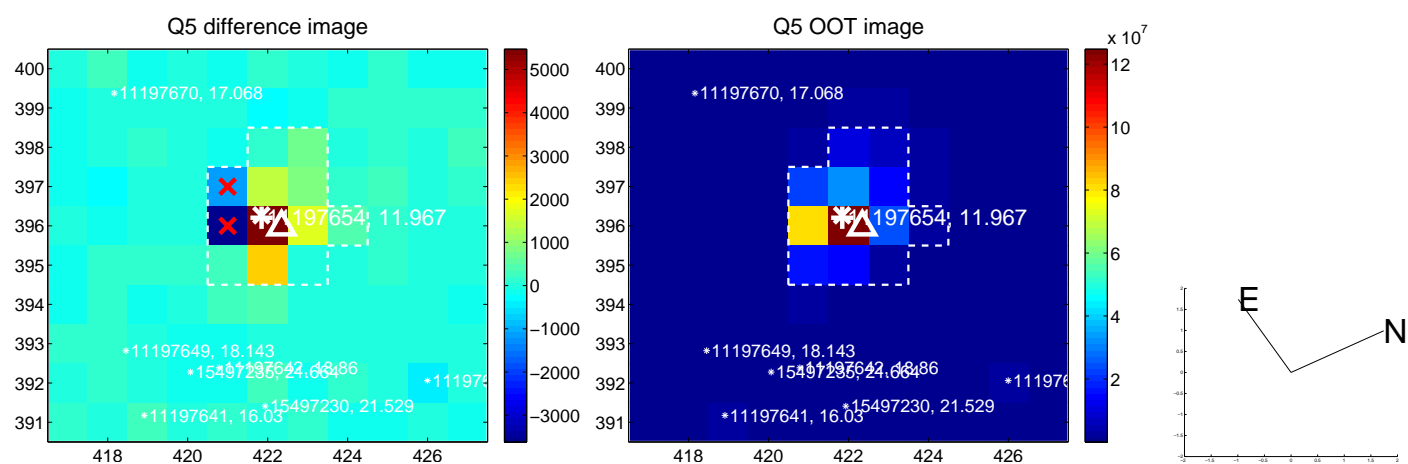


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

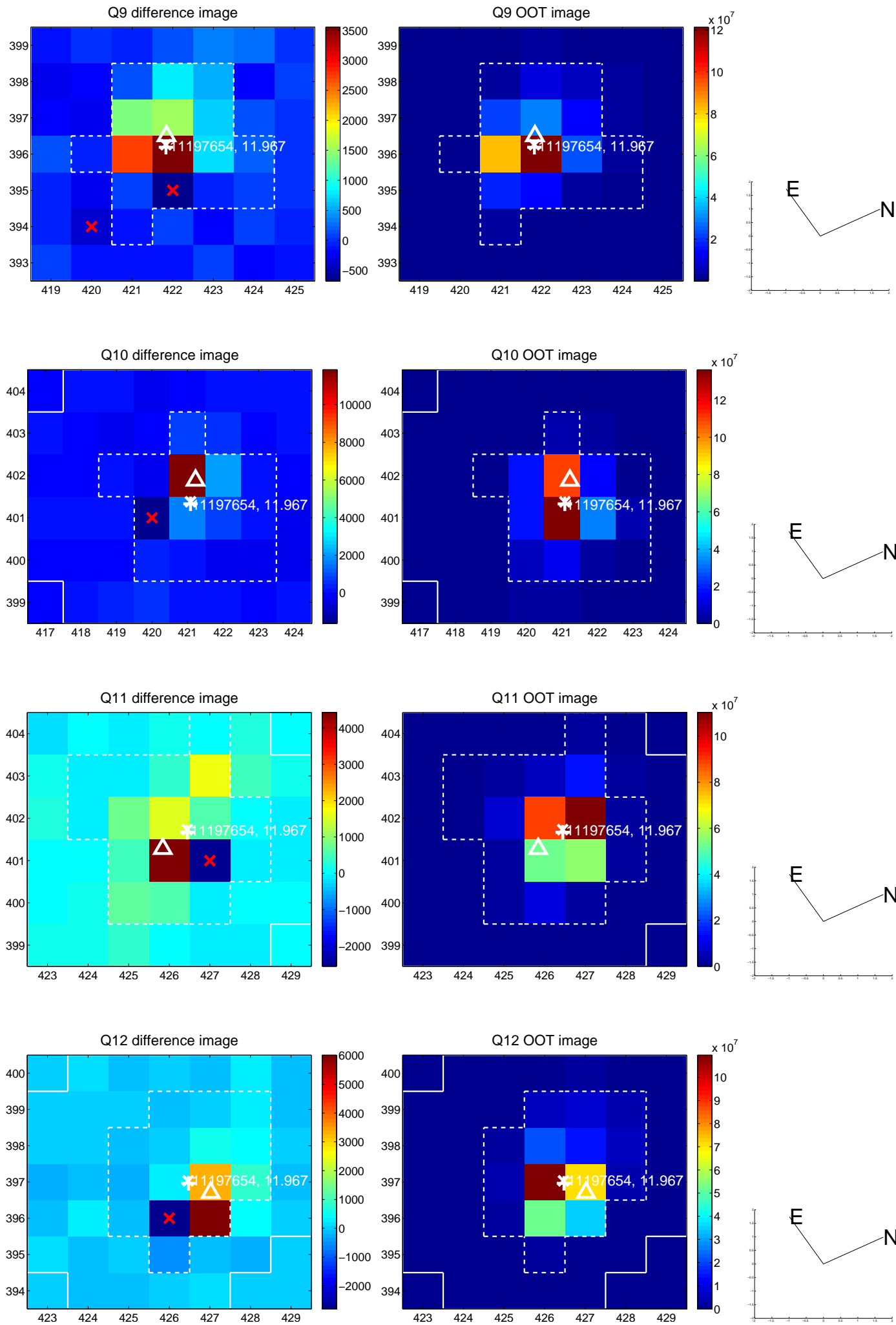
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



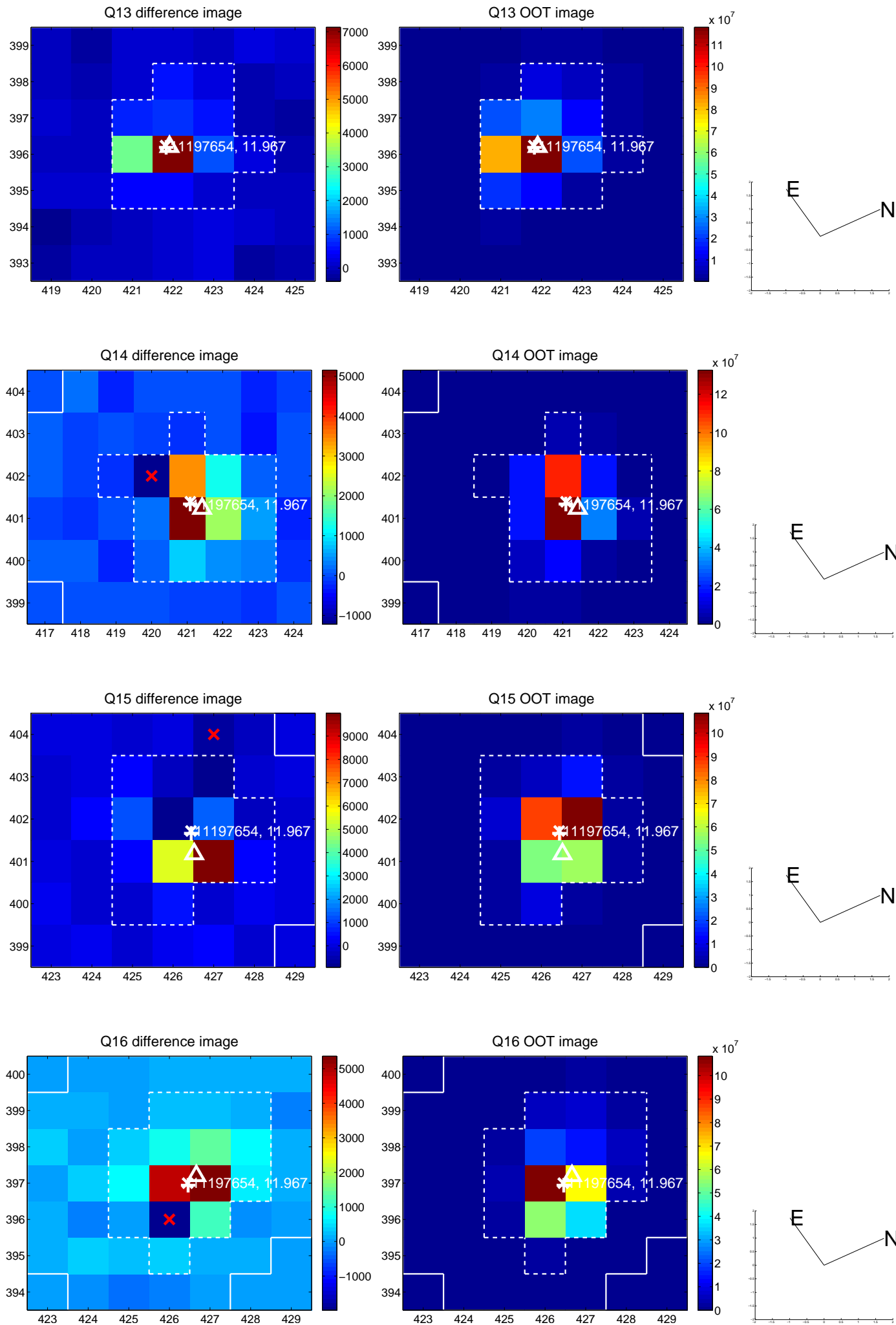
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



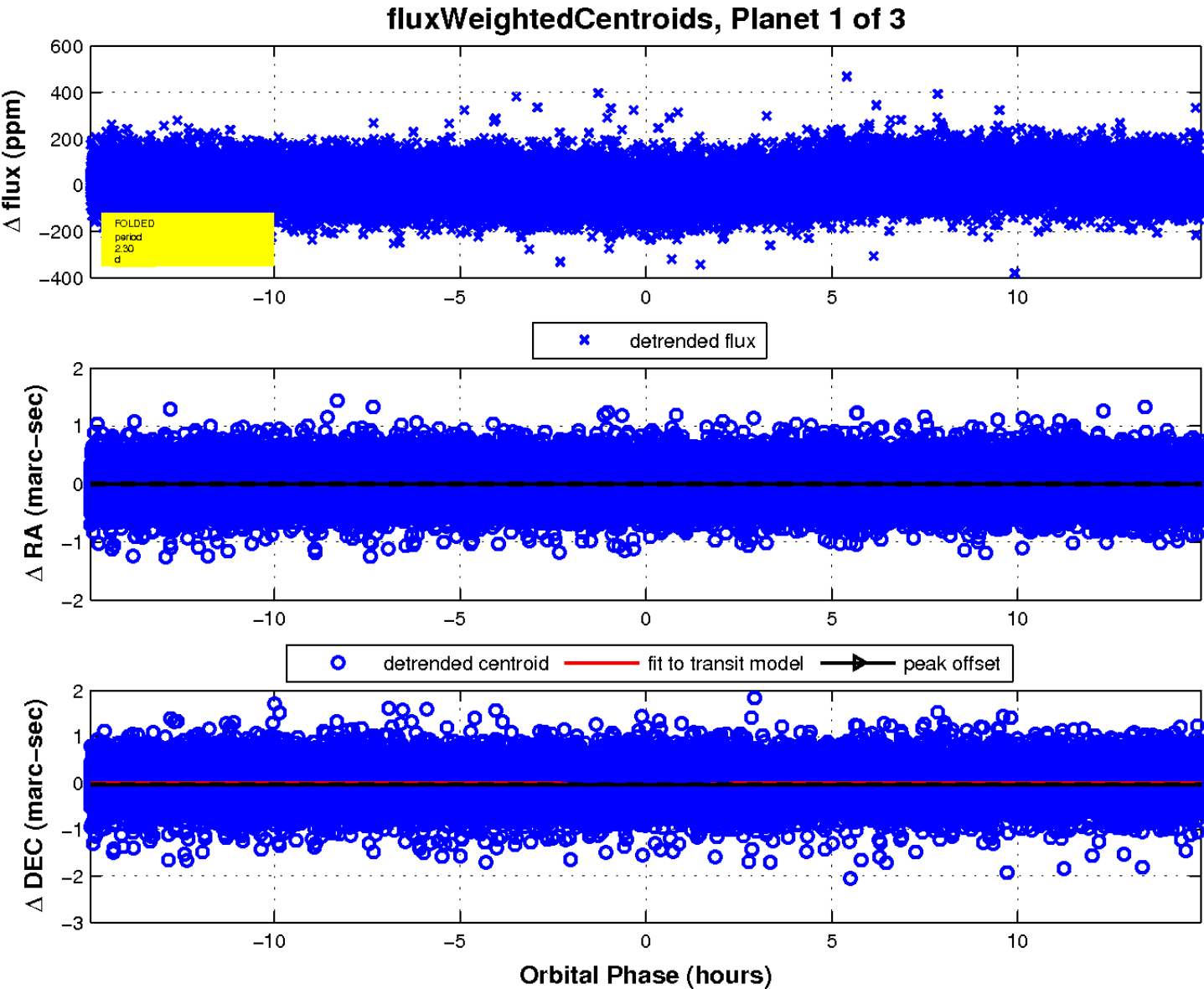
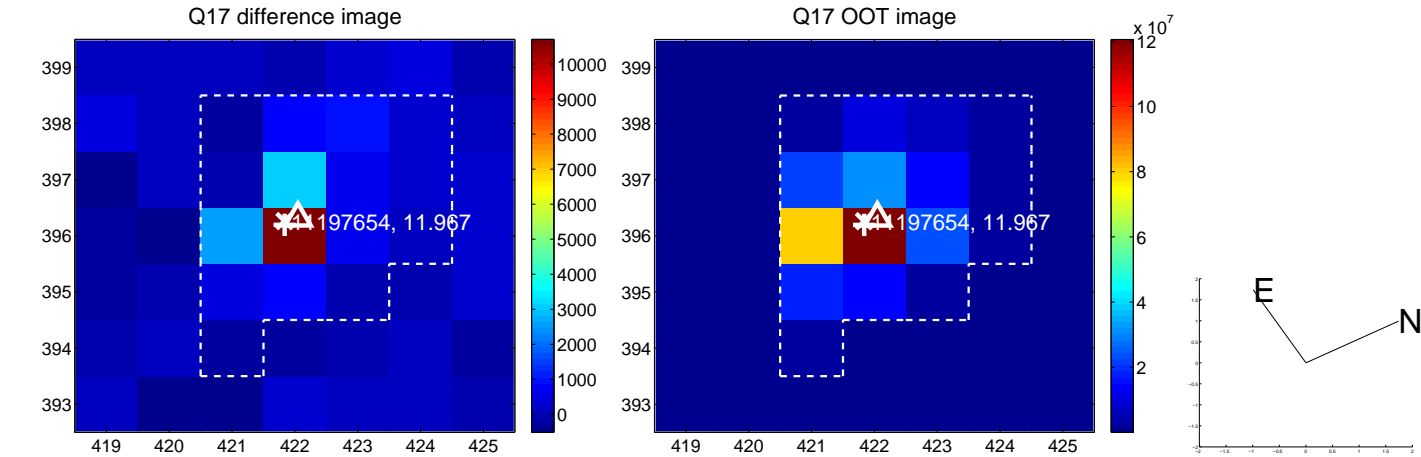
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

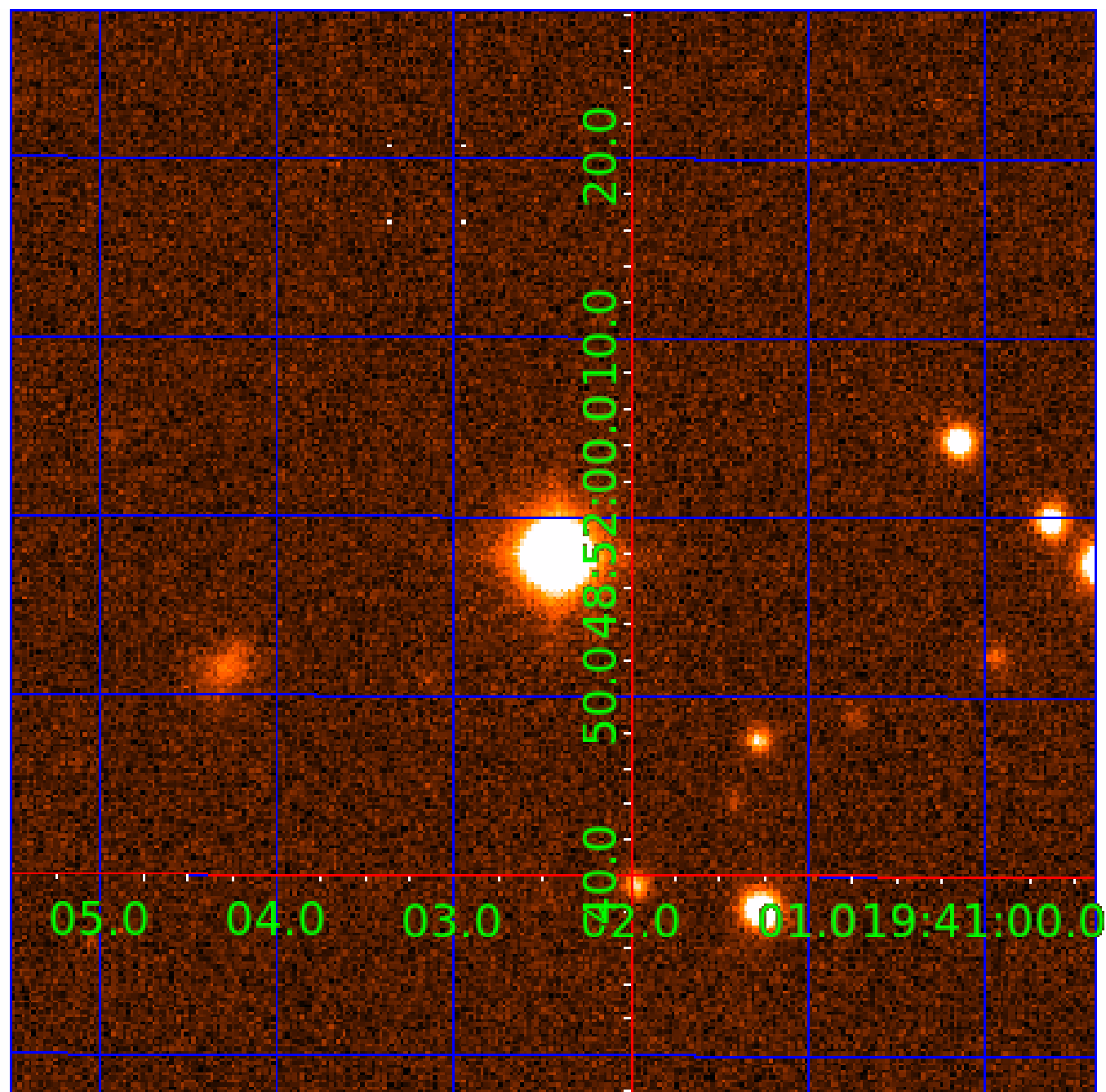


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011197654

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})
011197654-01	OBS	No	2.301456	133.303360	13.0	4.980	13.2	10.8	1.92	8403	0.91	9170.15
011197654-02	OBS	No	2.301382	132.300813	11.2	6.045	11.8	11.2	1.92	8403	0.69	9170.54
011197654-03	OBS	No	2.301486	131.684679	134.2	6.000	13.5	-1.0	1.92	8403	2.25	9169.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011197654-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
011197654-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD
011197654-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

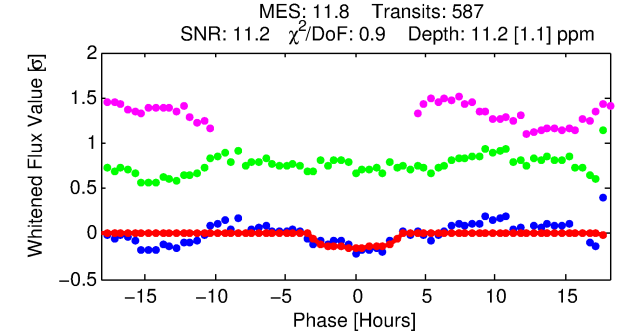
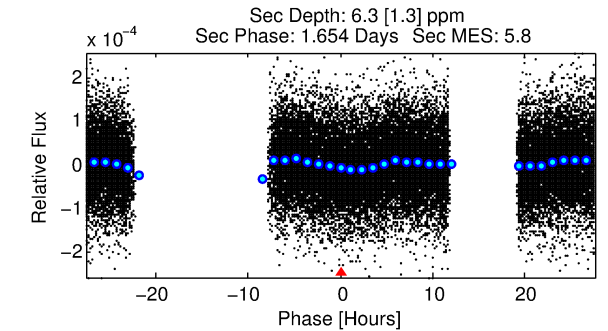
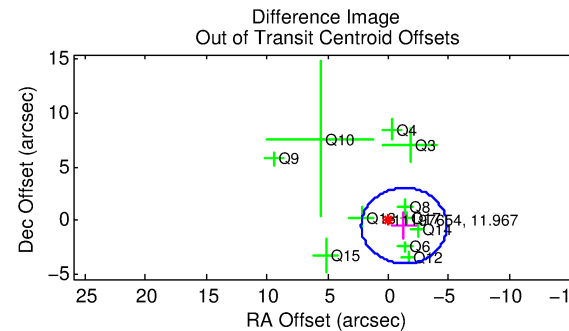
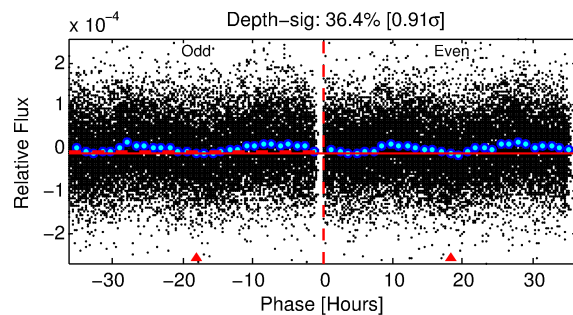
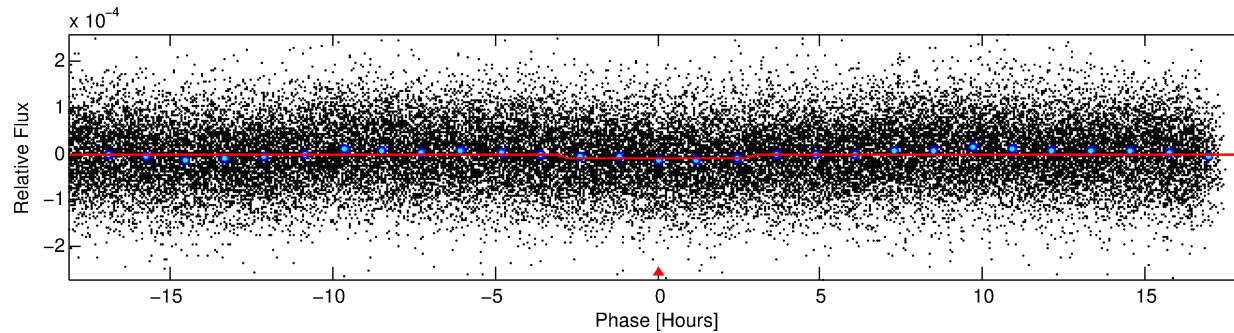
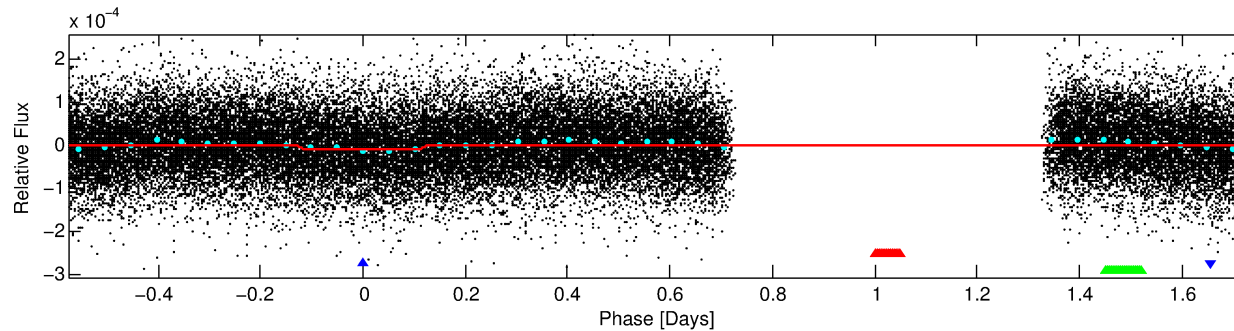
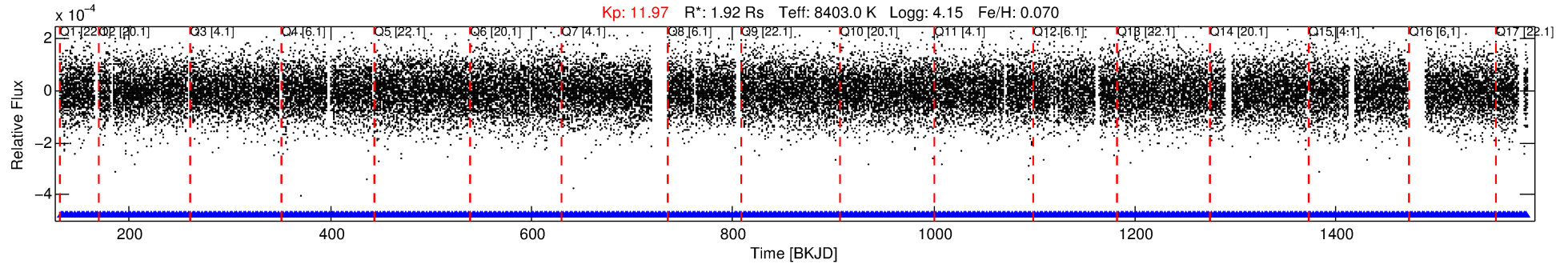
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011197654-02

No Significant Match Found

DV One-Page Summary

KIC: 11197654 Candidate: 2 of 3 Period: 2.301 d



DV Fit Results:

Period = 2.30138 [0.00002] d
Epoch = 132.3008 [0.0058] BKJD
 $R_p/R^* = 0.0033$ [0.0004]
 $a/R^* = 2.28$ [1.21]
 $b = 0.69$ [0.51]
 $T_{\text{eff}} = 9170.54$ [3339.24]
 $T_{\text{eq}} = 2495$ [227] K
 $R_p = 0.69$ [0.20] R_{eq}
 $a = 0.0423$ [0.0091] AU
 $A_g = 13.30$ [5.85] [2.10 σ]
 $T_{\text{effp}} = 7368$ [669] K [6.90 σ]

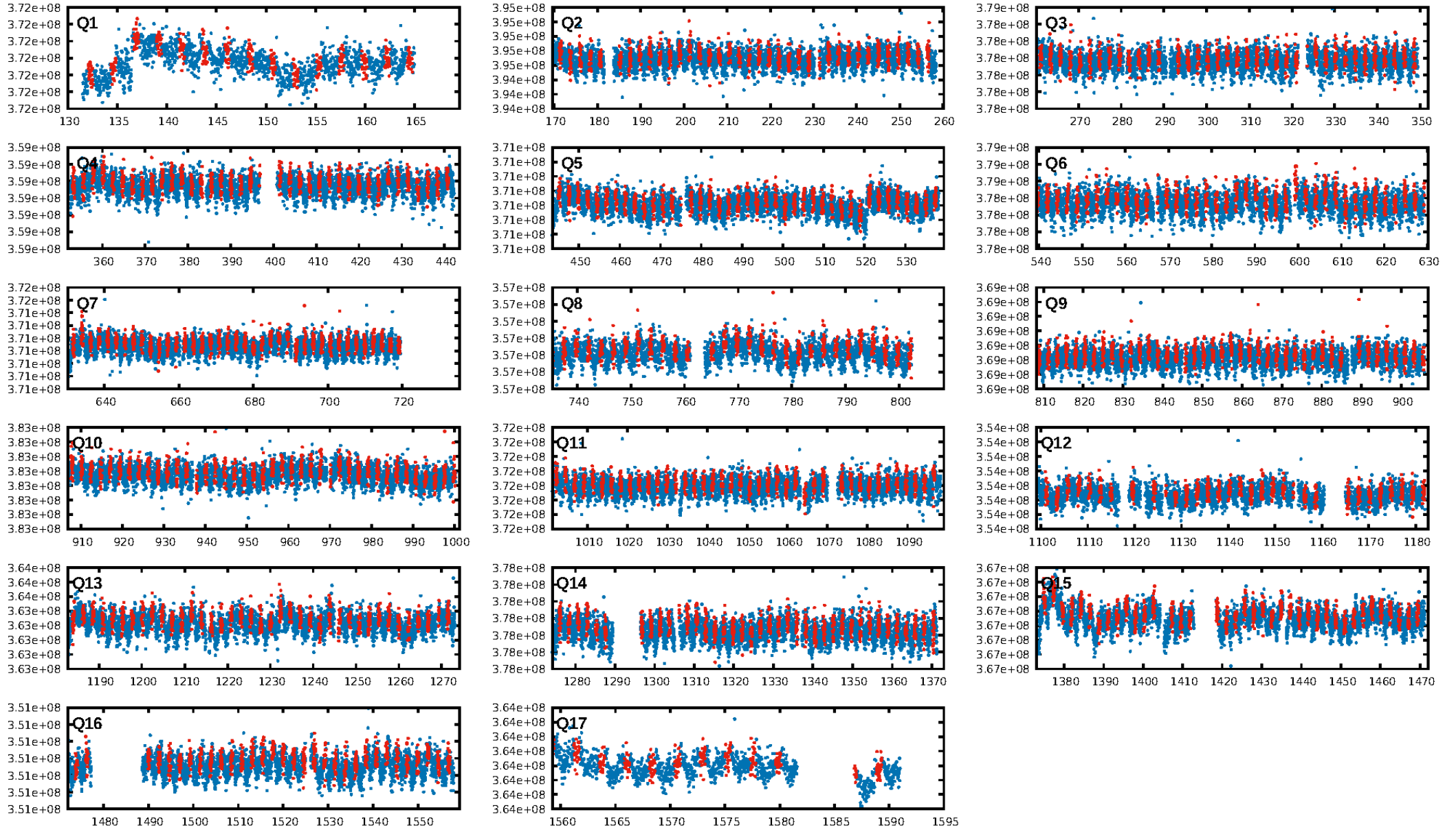
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.06e-36
RollingBand-fgt: 1.00 [560/560]
GhostDiagnostic-chr: 6.033
Centroid-sig: 59.2%
Centroid-so: 0.646 arcsec [0.61 σ]
OotOffset-rm: 1.412 arcsec [1.20 σ]
OotOffset-st: 3/2/3/3 [11]
KicOffset-rm: 1.652 arcsec [1.26 σ]
KicOffset-st: 3/2/3/3 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 0.00 [0/17]

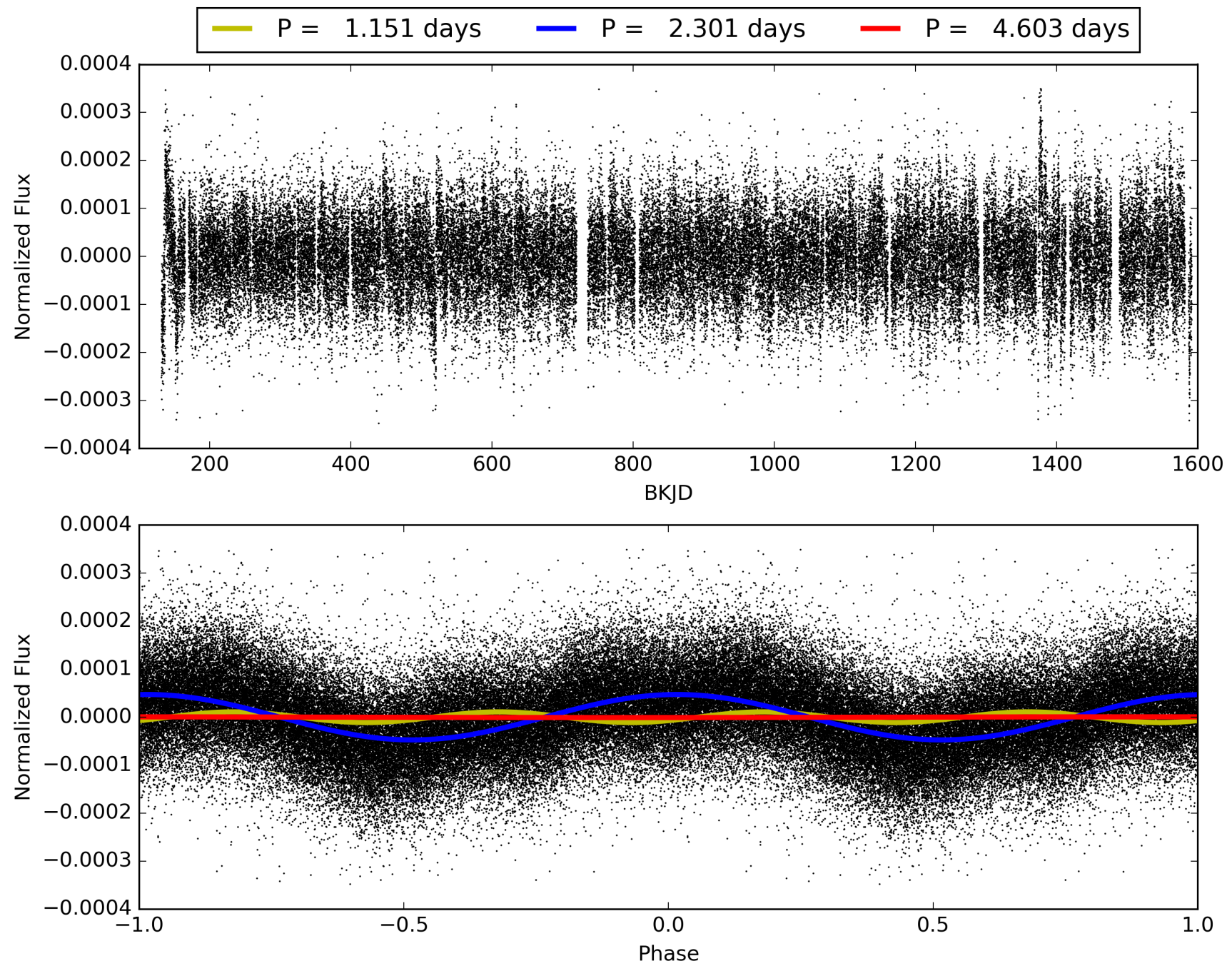
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:38:34 Z

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

TCE 011197654-02, PDC Light Curves

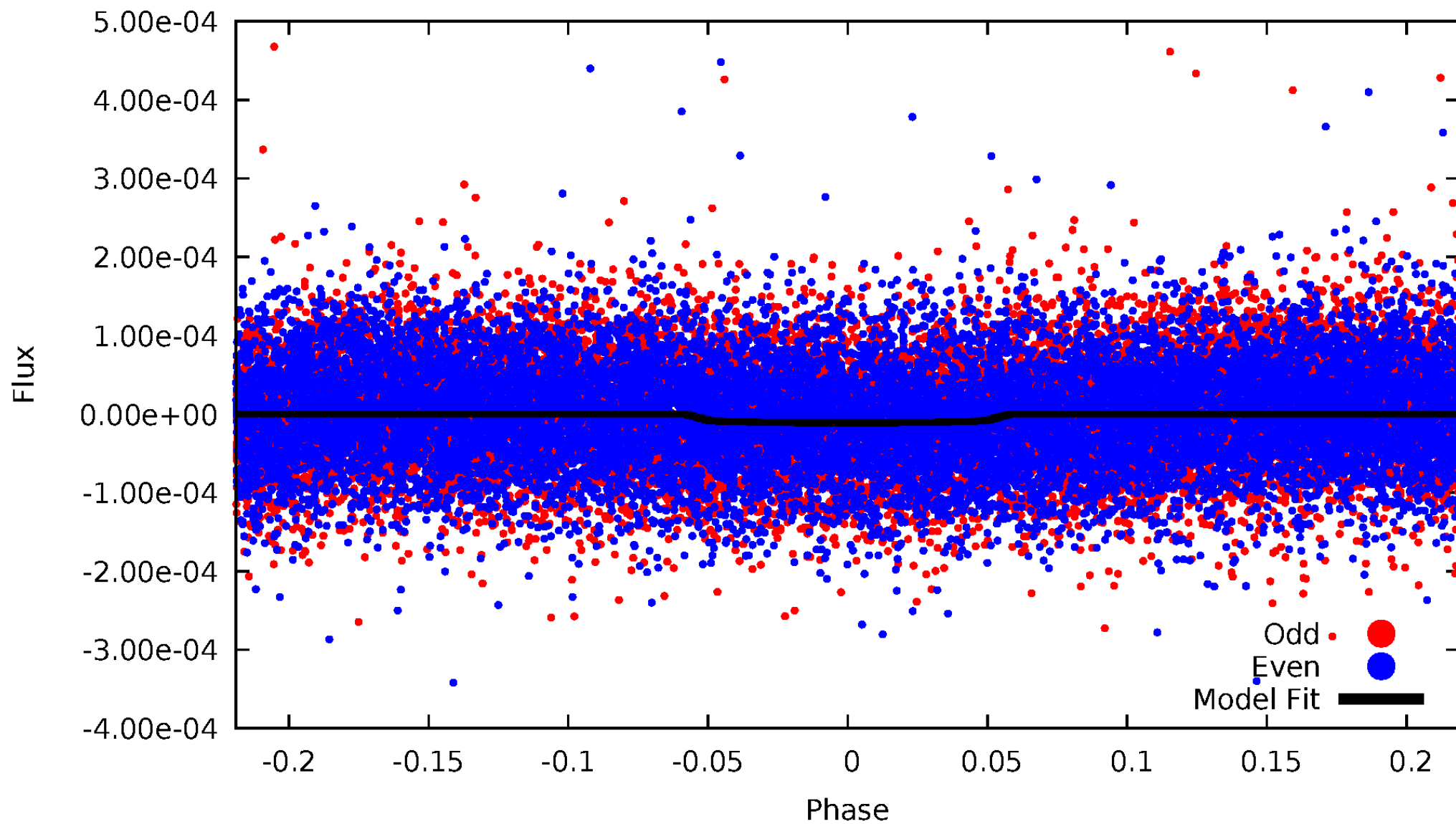


TCE 011197654-02



DV Odd/Even

TCE 011197654-02

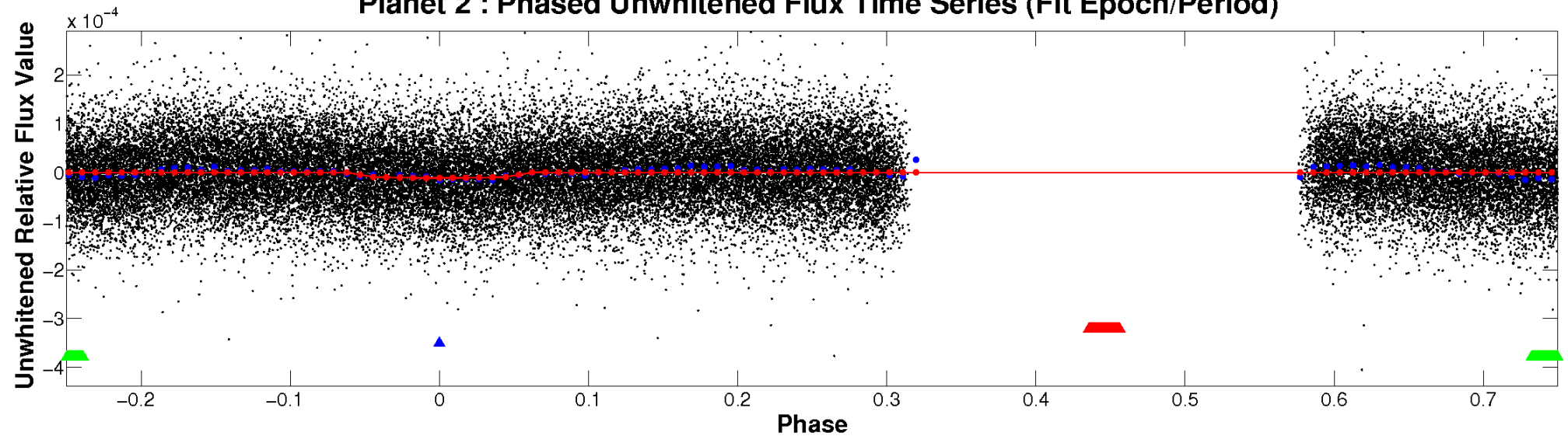


ALT Odd/Even

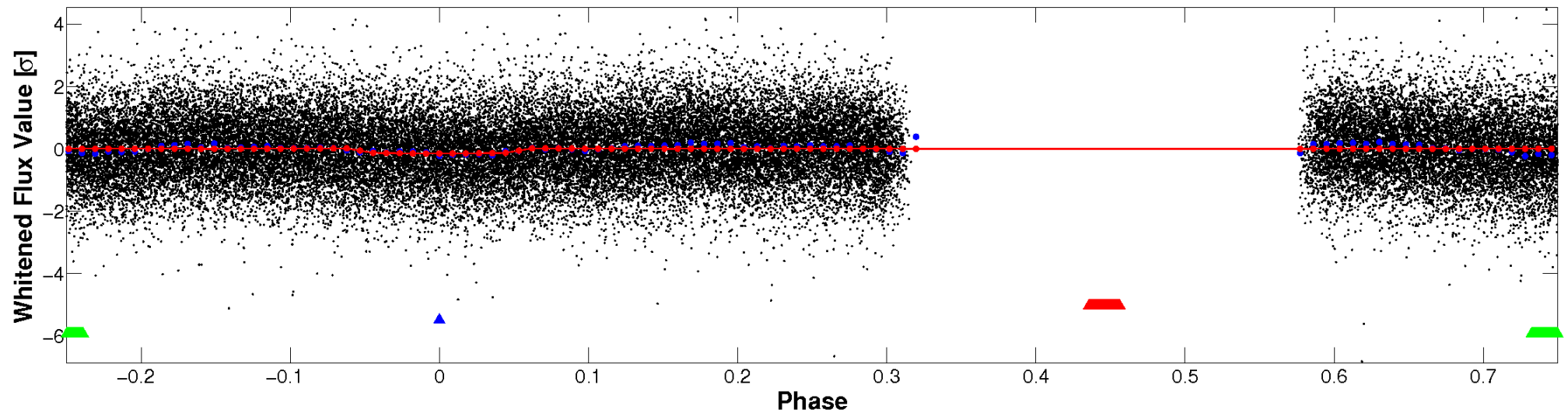
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

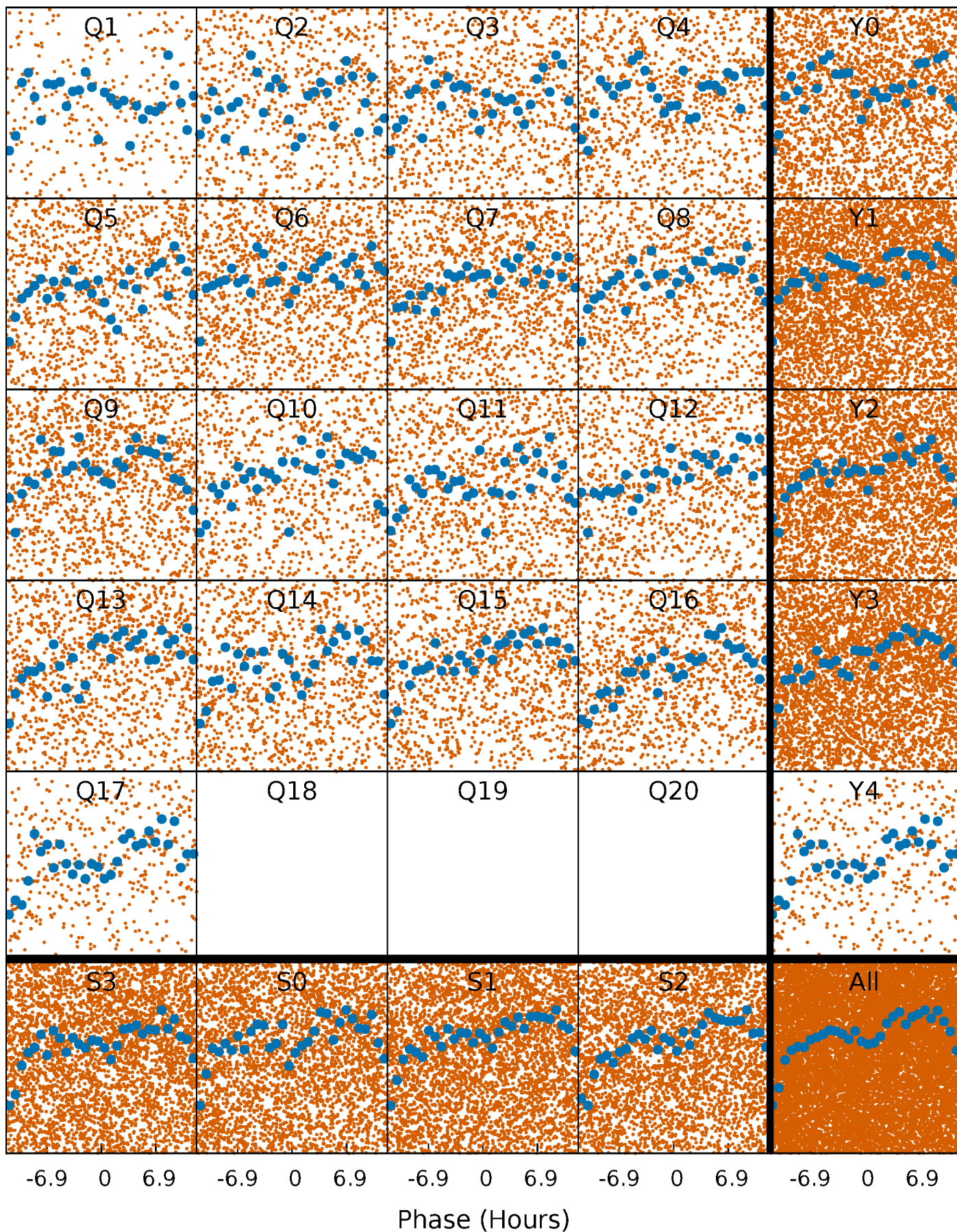


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



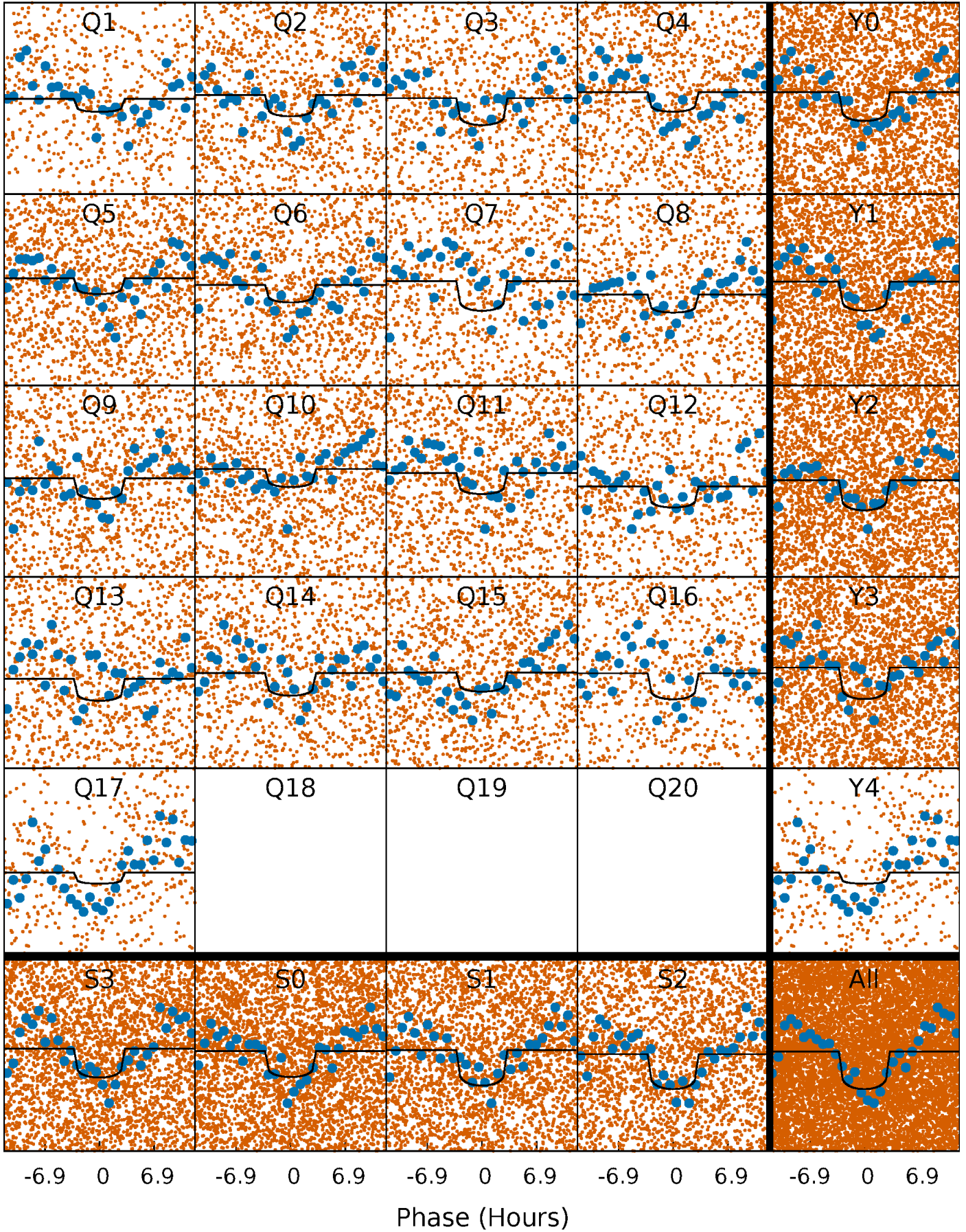
PDC Quarter-Phased Transit Curves

TCE 011197654-02 P= 2.301382 Days $T_0=132.300813$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011197654-02 P= 2.301382 Days $T_0=132.300813$ (BKJD)

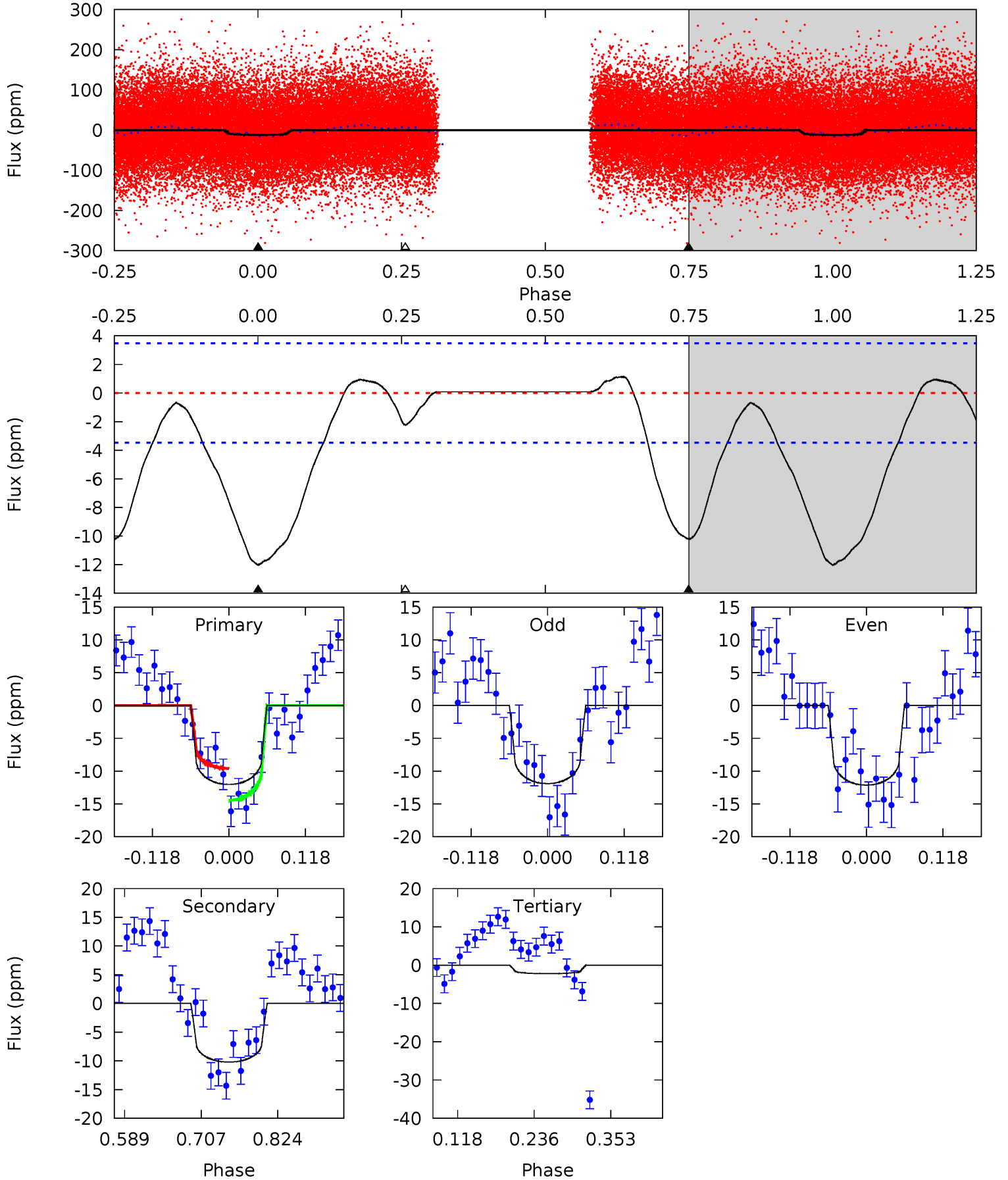


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011197654-02, P = 2.301382 Days, E = 129.999431 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	13.3	2.91	0	4.53	1.56	1.44	12.8	15.7	10.4	13.3	0.15	0.96	0.09	3.16



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011197654

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8403^{+231}_{-396}	$4.153^{+0.104}_{-0.169}$	$0.070^{+0.250}_{-0.500}$	$1.917^{+0.496}_{-0.330}$	$1.905^{+0.349}_{-0.349}$	$0.381^{+0.192}_{-0.175}$
	+3%/-5%	+3%/-4%	+357%/-714%	+26%/-17%	+18%/-18%	+50%/-46%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 011197654-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-10 ± 1	$0.70^{+0.13}_{-0.12}$	3496^{+240}_{-216}	8162^{+784}_{-622}	21^{+8}_{-6}
Alt.	N/A	N/A	N/A	N/A	N/A

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

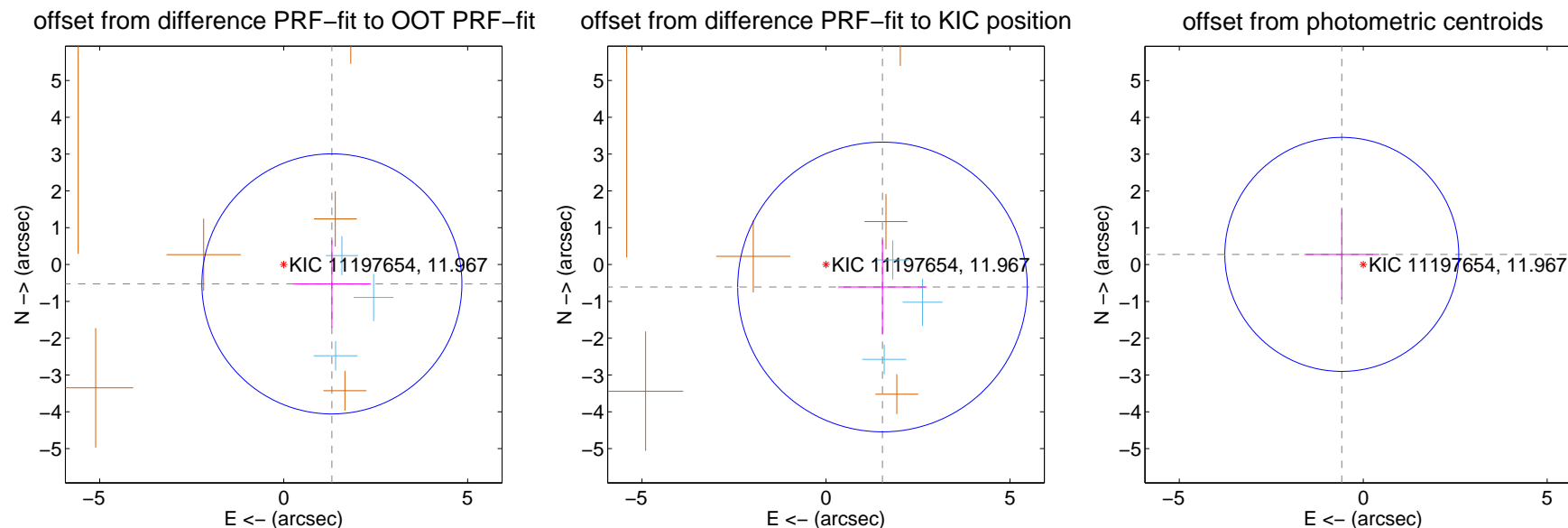
DV Centroid Data

Supplemental centroid analysis for 011197654-02. **Kepler magnitude: 11.97.** Transit SNR 11.16

There are 3 quarters with good PRF difference image offsets

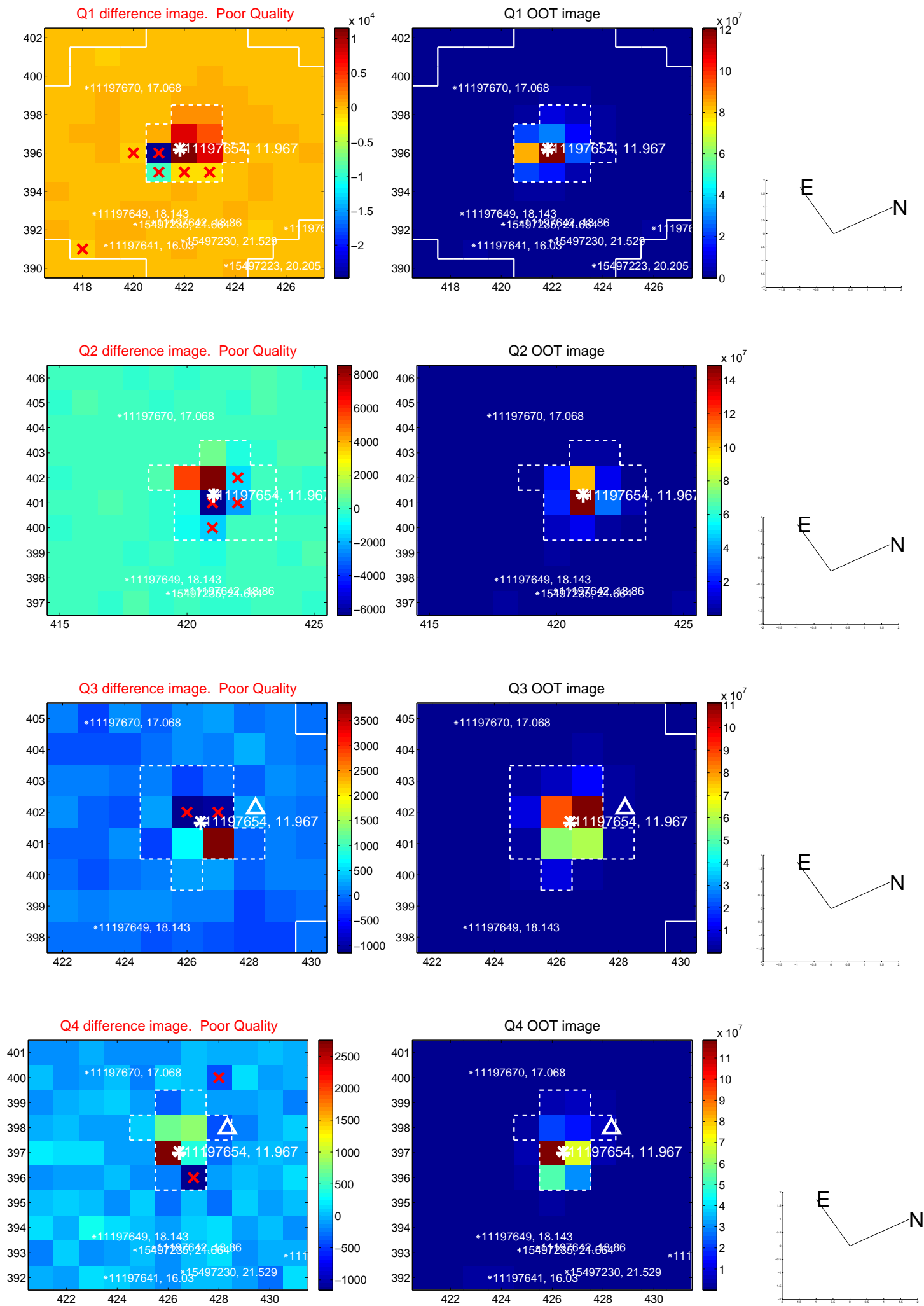
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.412 ± 1.177	1.20	-1.310 ± 1.055	-0.526 ± 1.190
PRF-fit source offset from KIC position	1.652 ± 1.311	1.26	-1.535 ± 1.206	-0.610 ± 1.289
photometric centroid source offset	0.65 ± 1.06	0.61	0.58 ± 1.02	0.28 ± 1.23

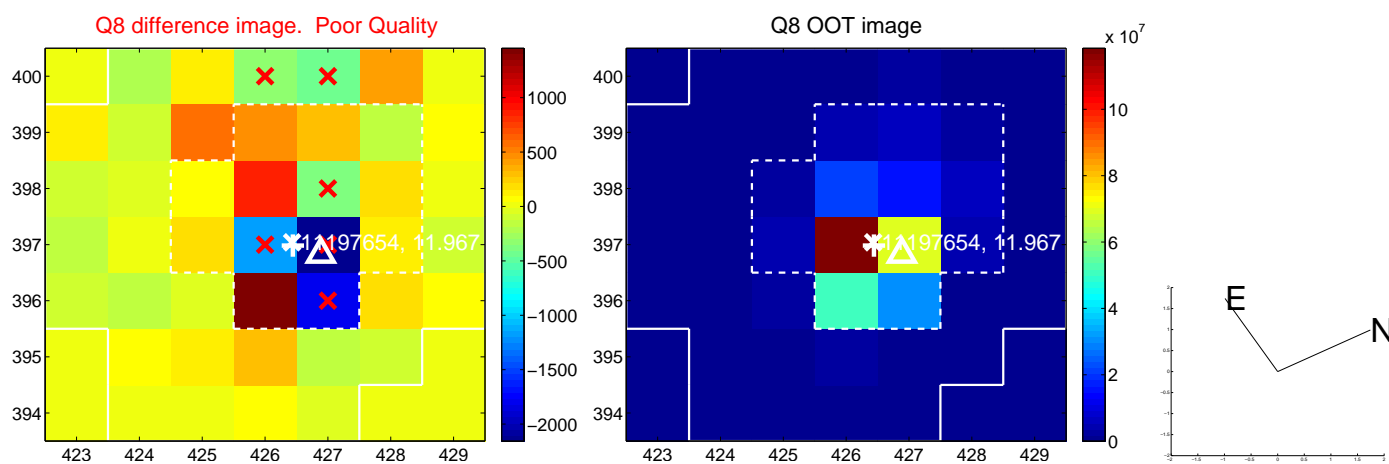
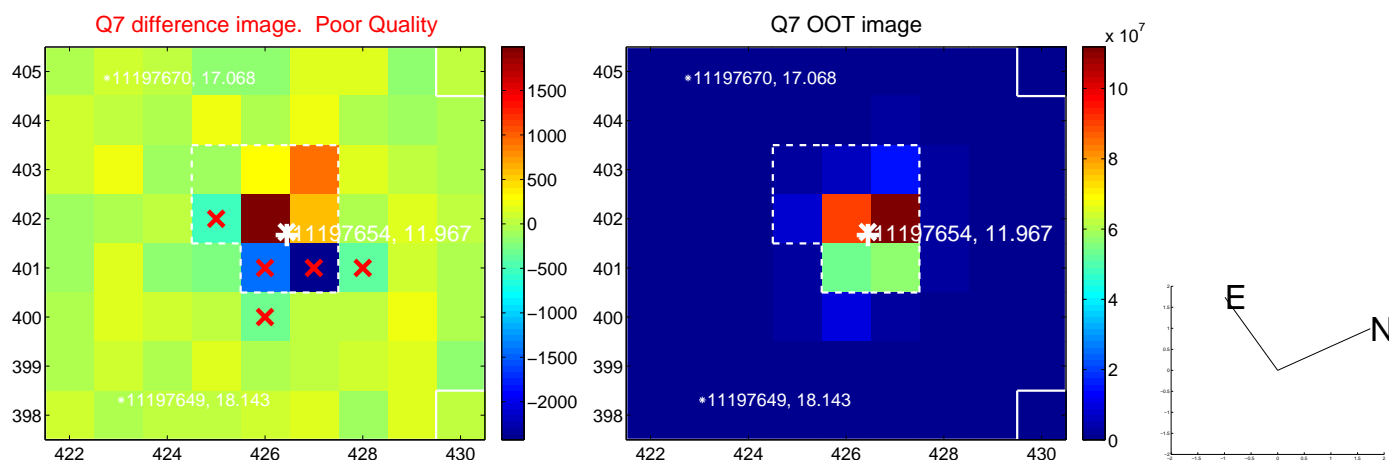
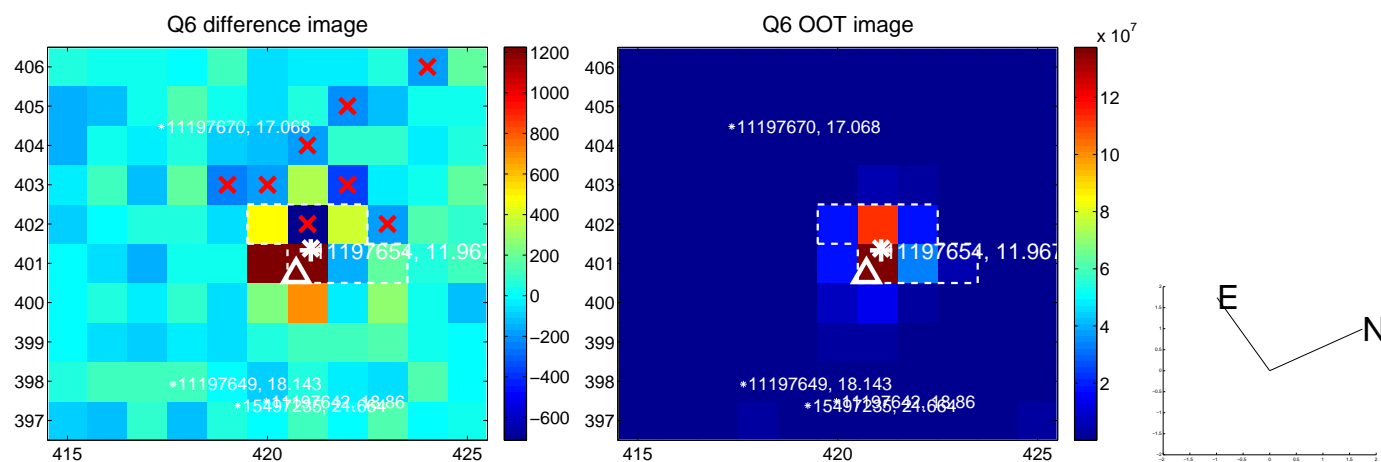
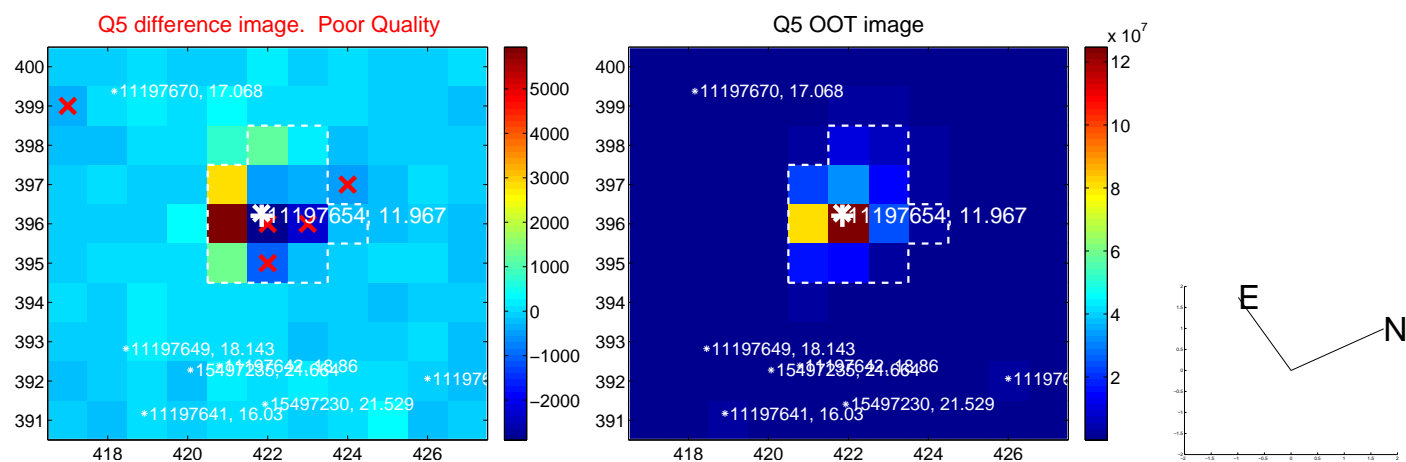


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

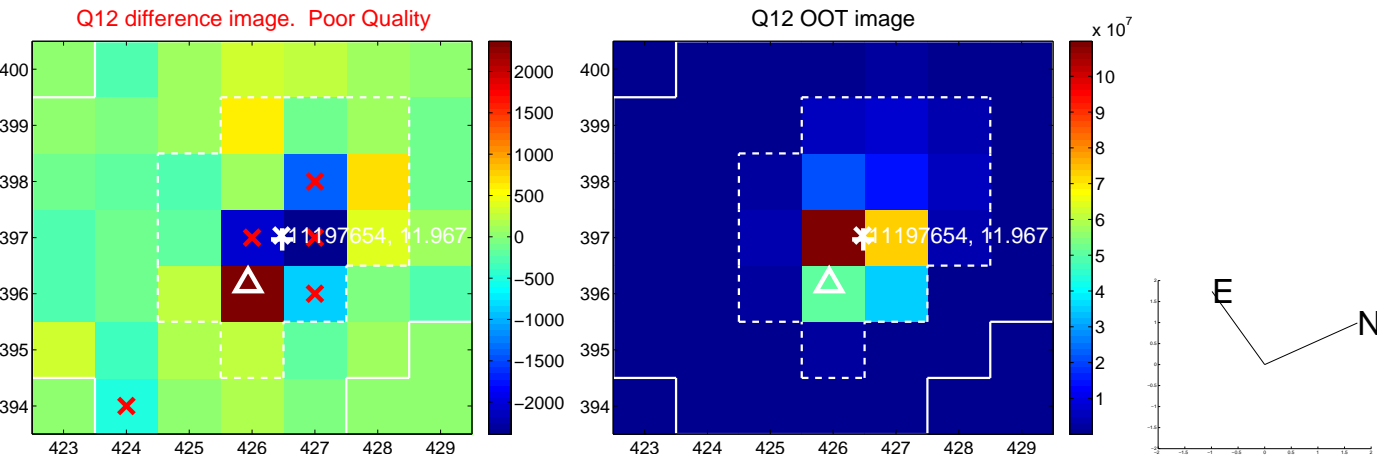
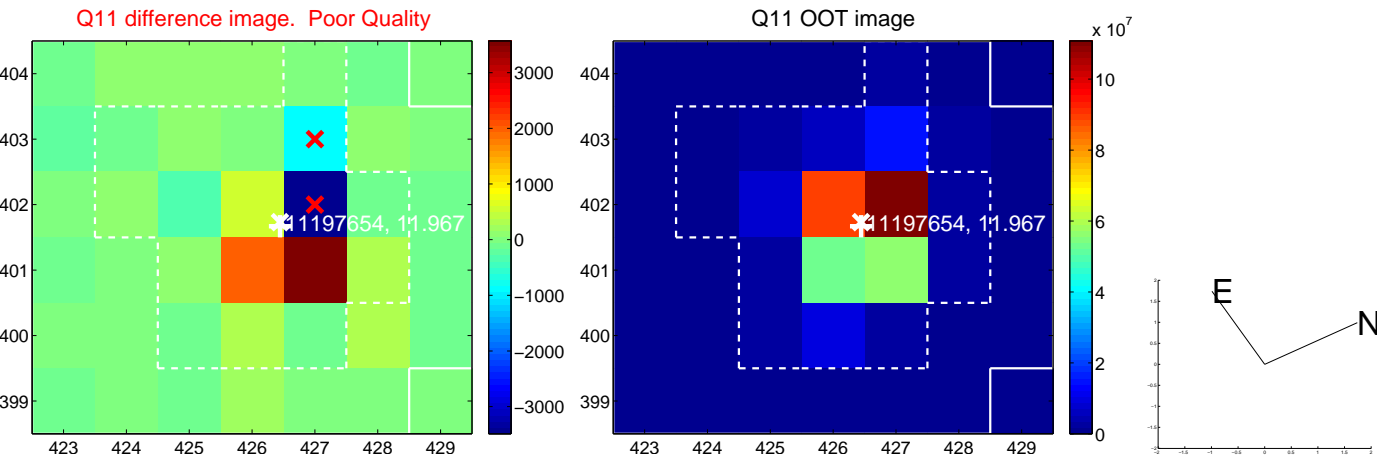
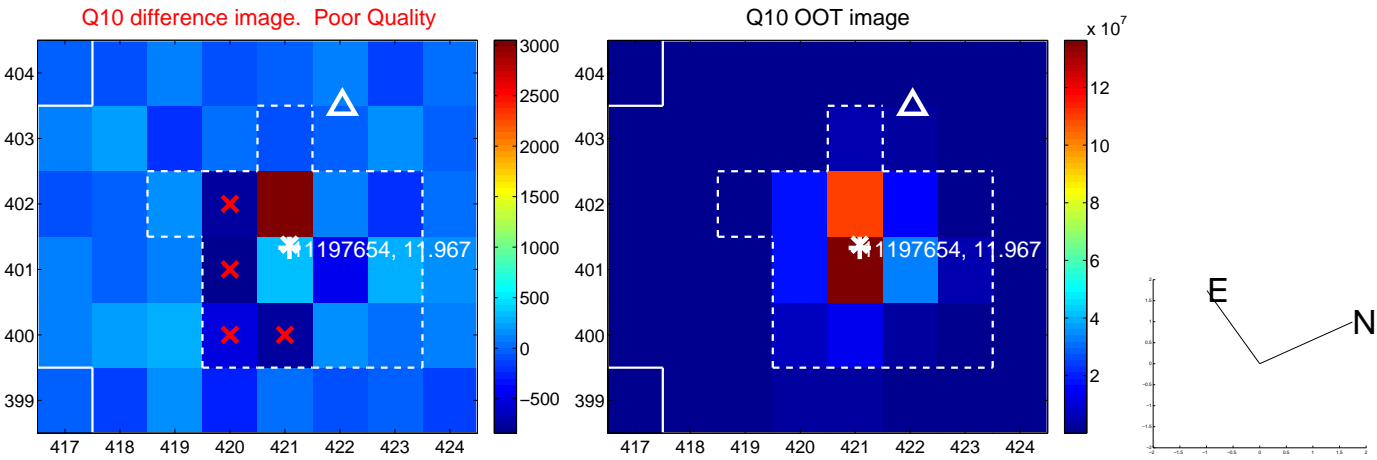
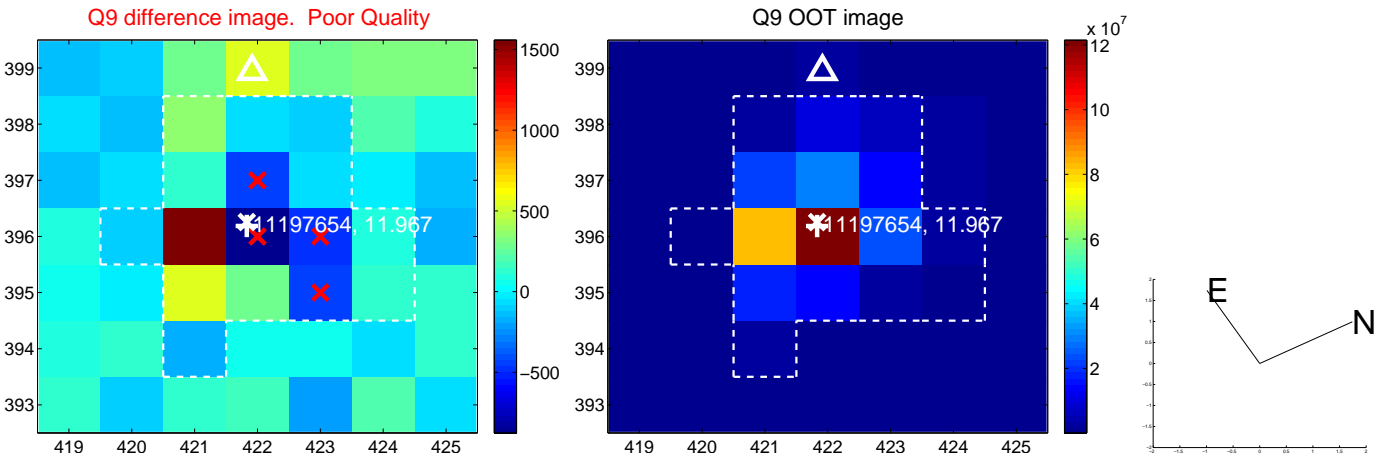
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



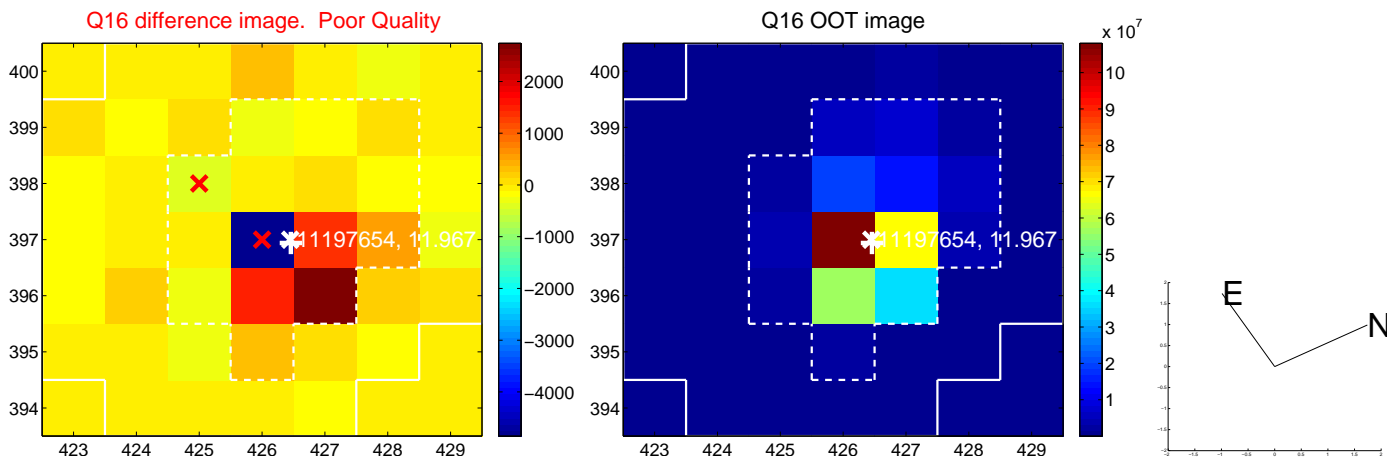
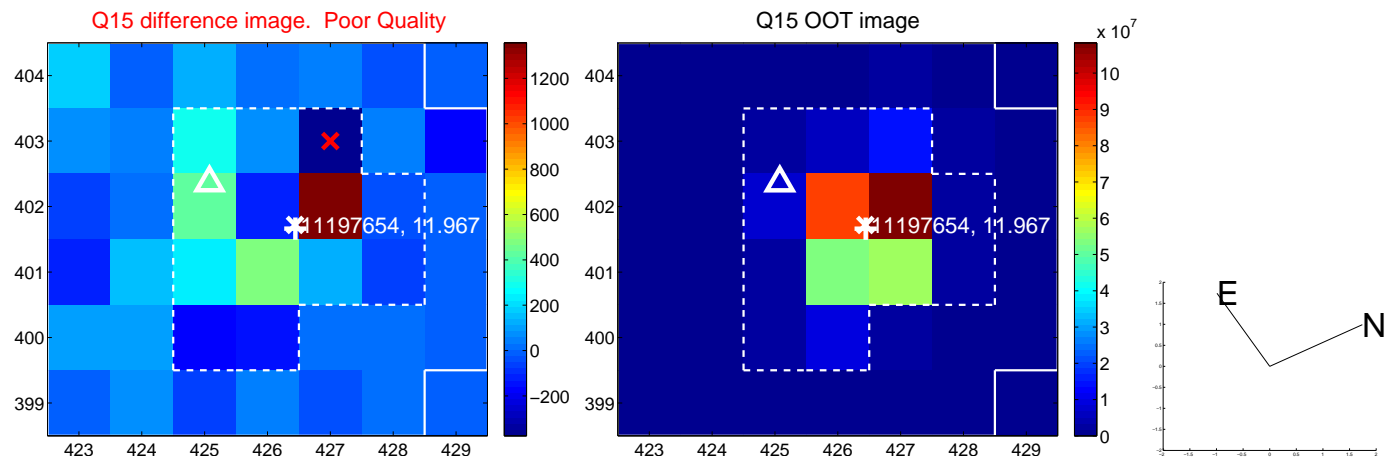
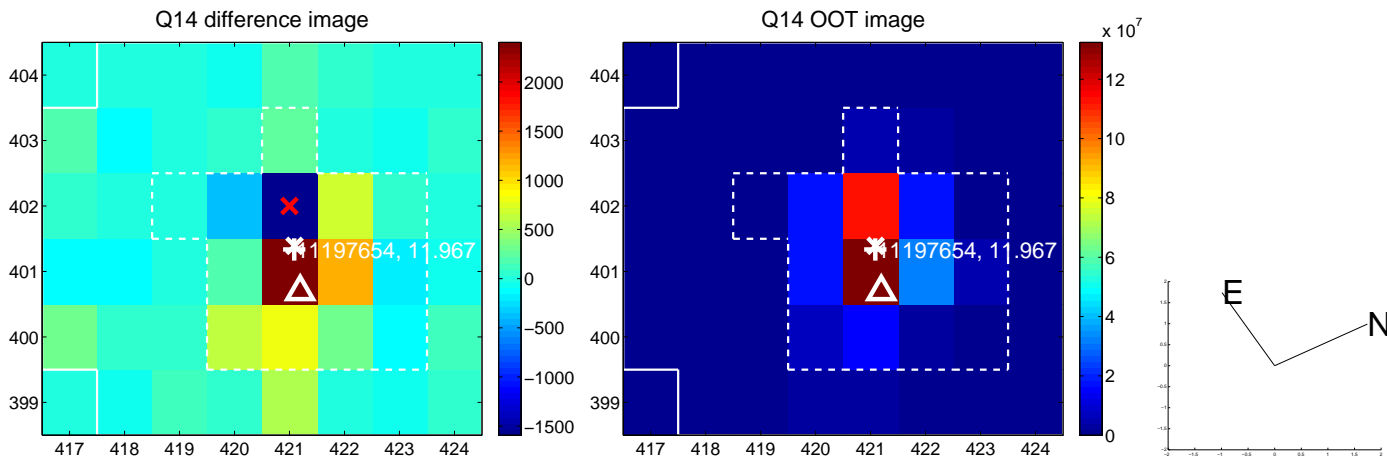
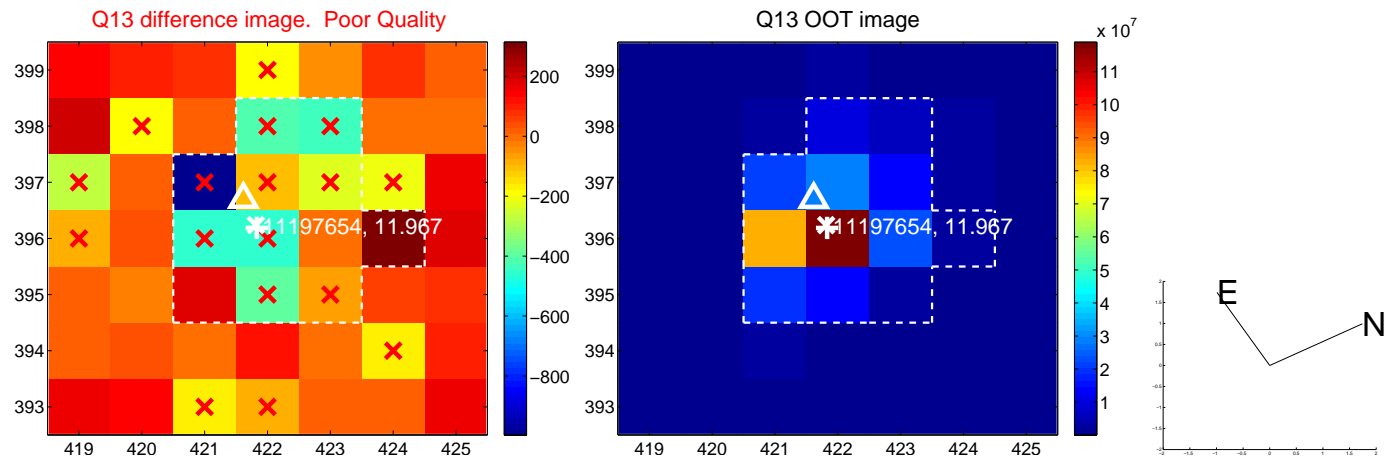
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



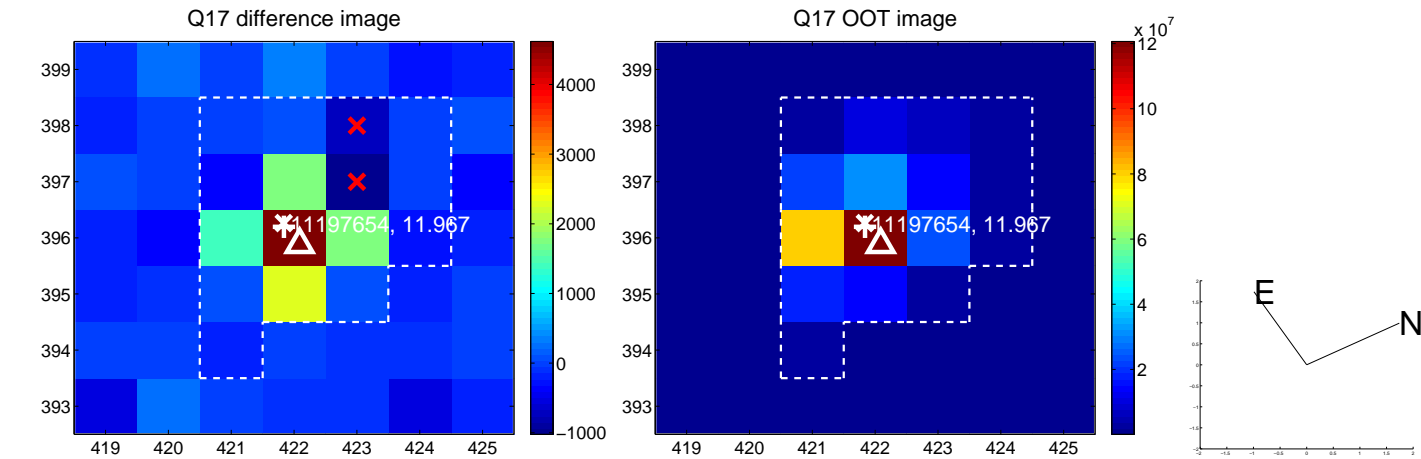
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



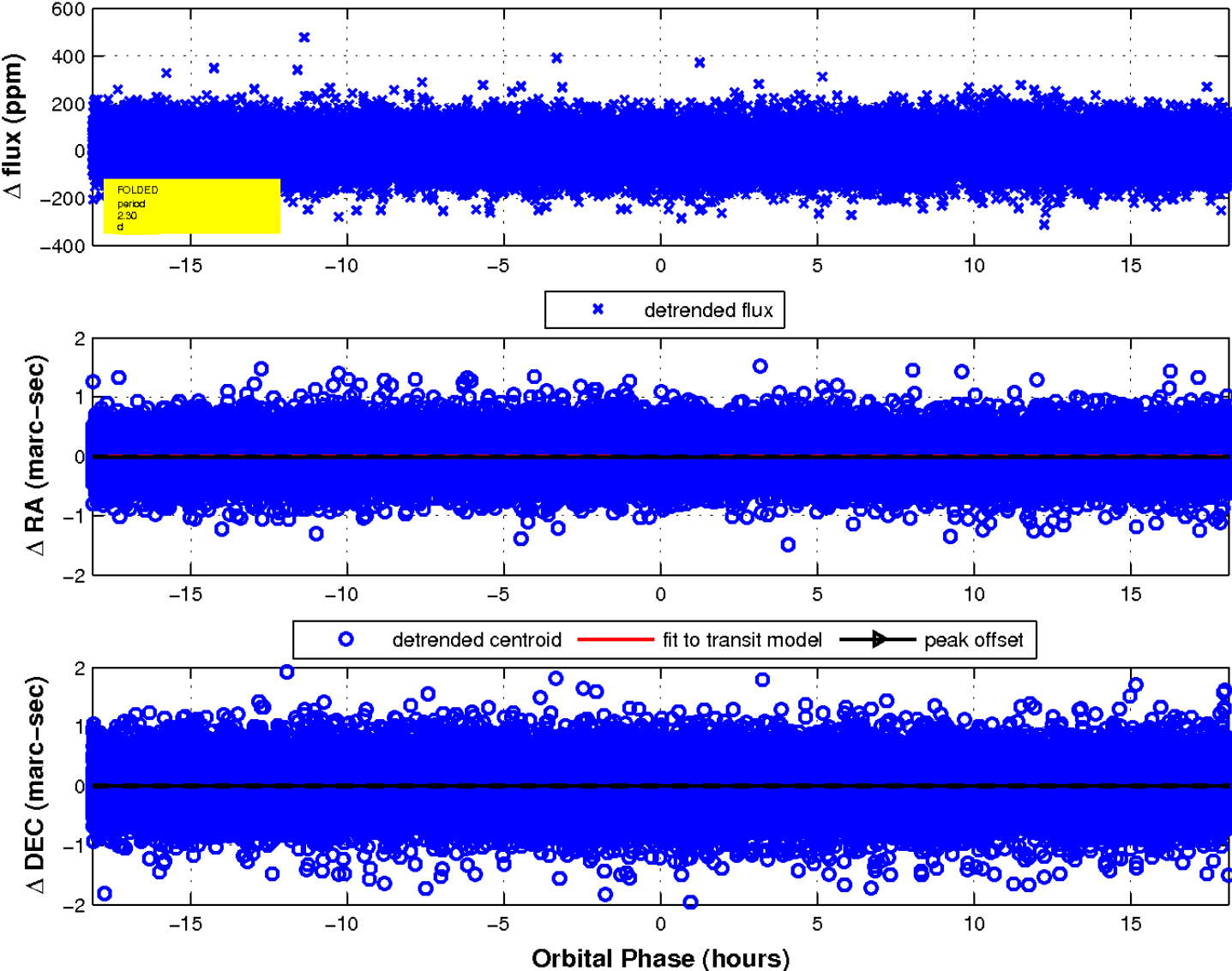
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

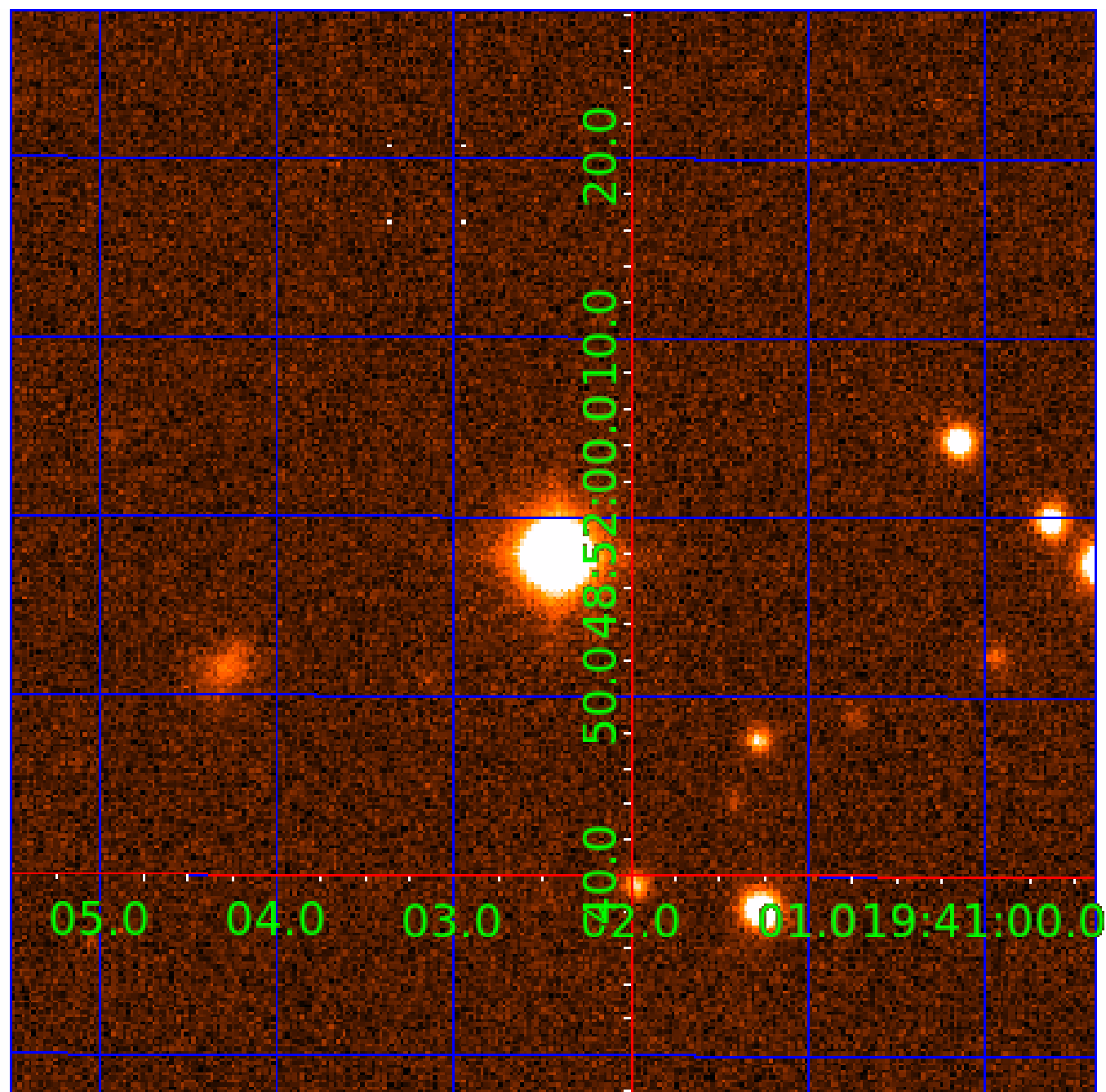


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 011197654

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})
011197654-01	OBS	No	2.301456	133.303360	13.0	4.980	13.2	10.8	1.92	8403	0.91	9170.15
011197654-02	OBS	No	2.301382	132.300813	11.2	6.045	11.8	11.2	1.92	8403	0.69	9170.54
011197654-03	OBS	No	2.301486	131.684679	134.2	6.000	13.5	-1.0	1.92	8403	2.25	9169.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011197654-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV
011197654-02	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—SAME_NTL_PERIOD
011197654-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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

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

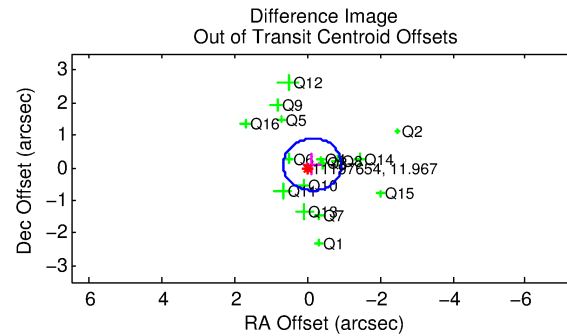
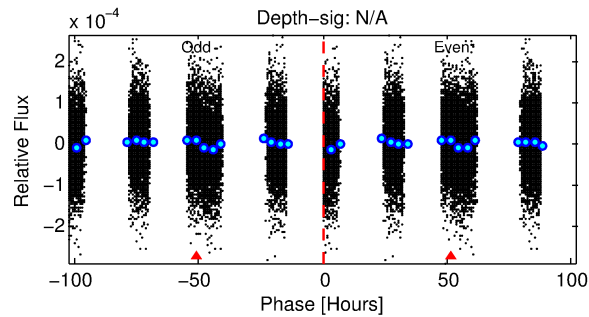
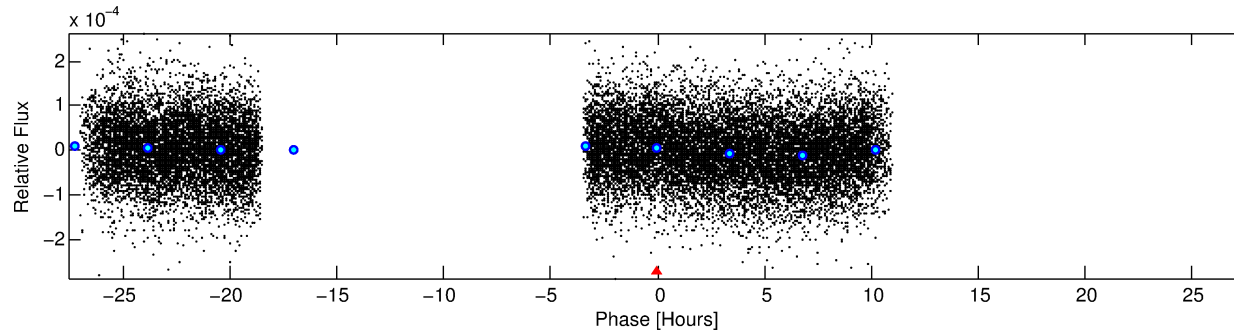
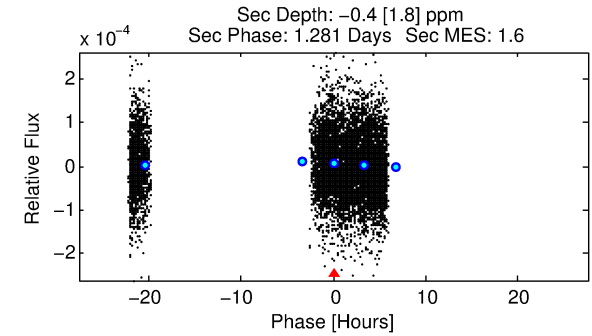
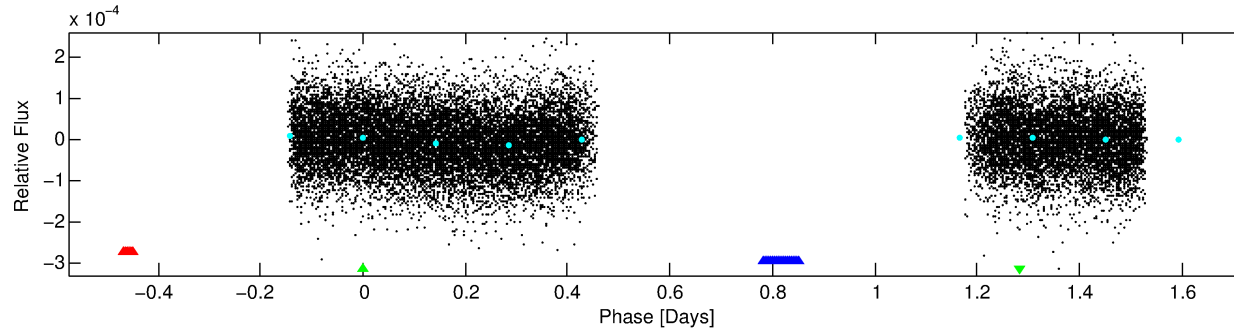
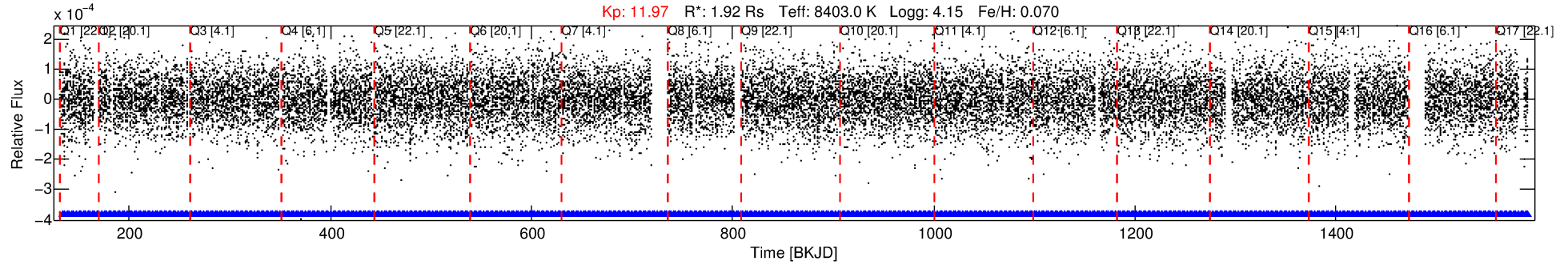
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011197654-03

No Significant Match Found

DV One-Page Summary

KIC: 11197654 Candidate: 3 of 3 Period: 2.301 d



TPS TCE Results:

Period = 2.30149 d
Epoch = 131.6847 BKJD

DV fit results are unavailable

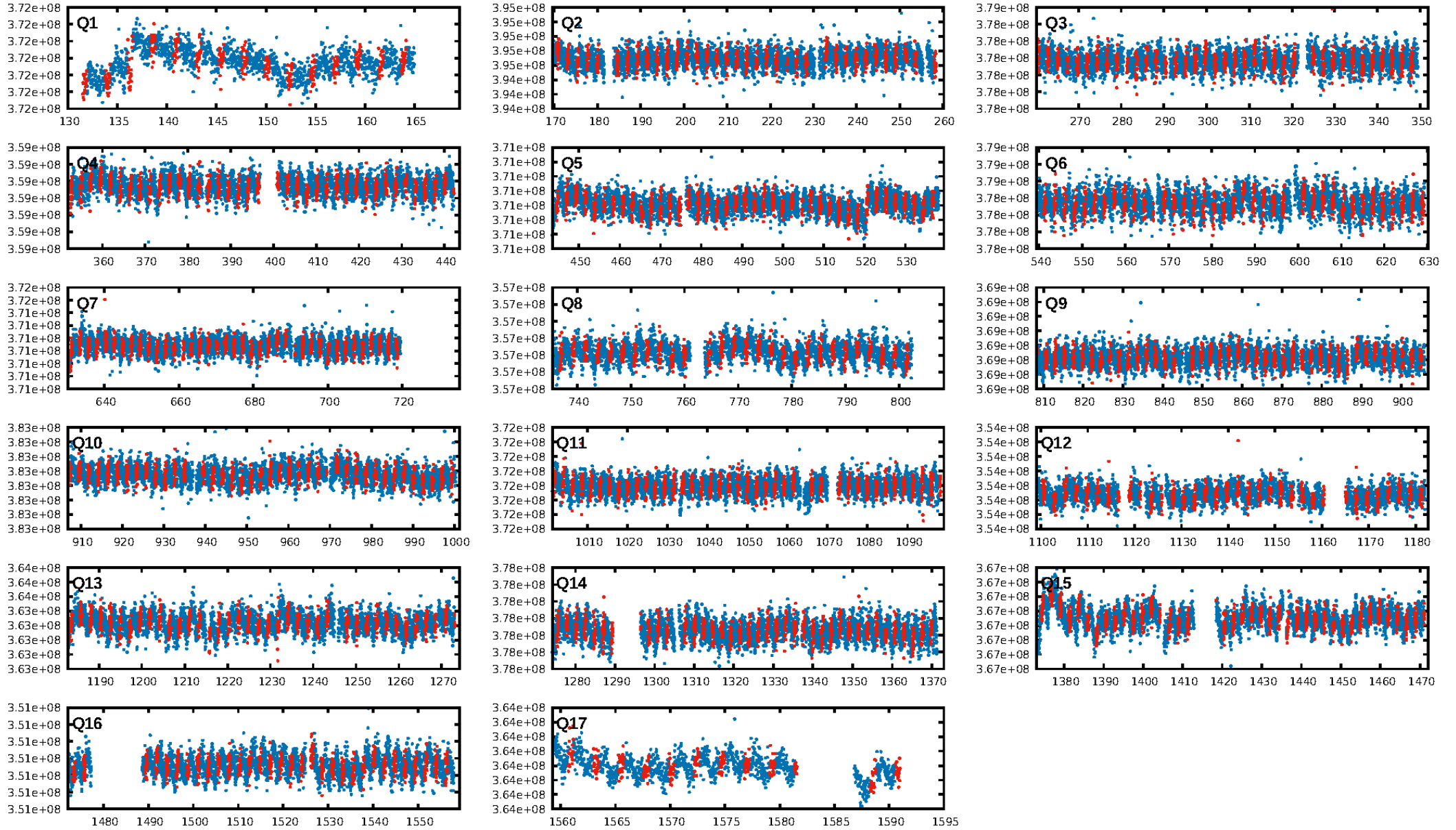
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.61e-44
RollingBand-fgt: 1.00 [565/565]
GhostDiagnostic-chr: 0.9075
Centroid-sig: 5.9%
Centroid-so: 0.450 arcsec [1.23 σ]
OotOffset-rm: 0.168 arcsec [0.63 σ]
KicOffset-rm: 0.351 arcsec [1.33 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 0.00 [0/17]

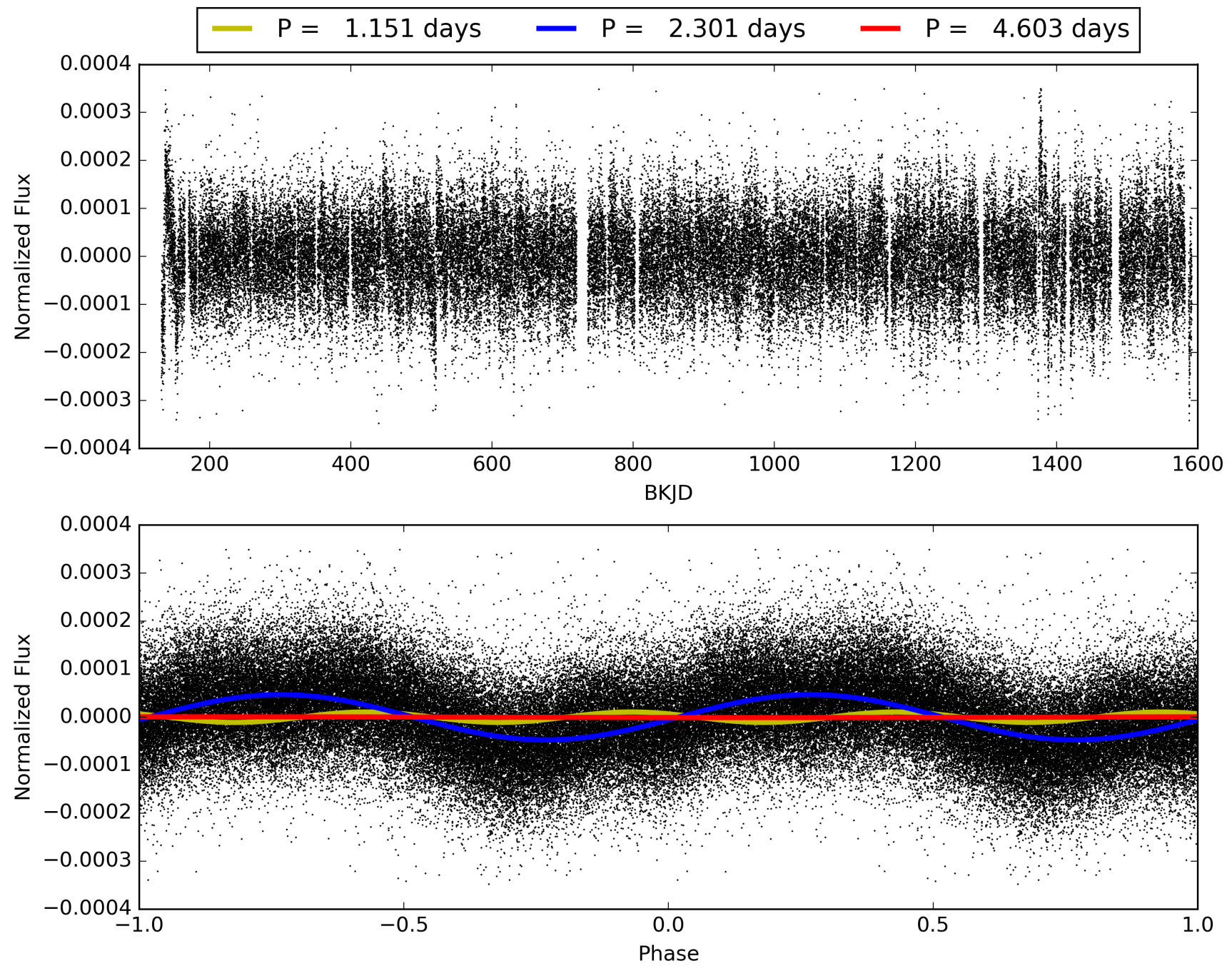
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:38:45 Z

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

TCE 011197654-03, PDC Light Curves

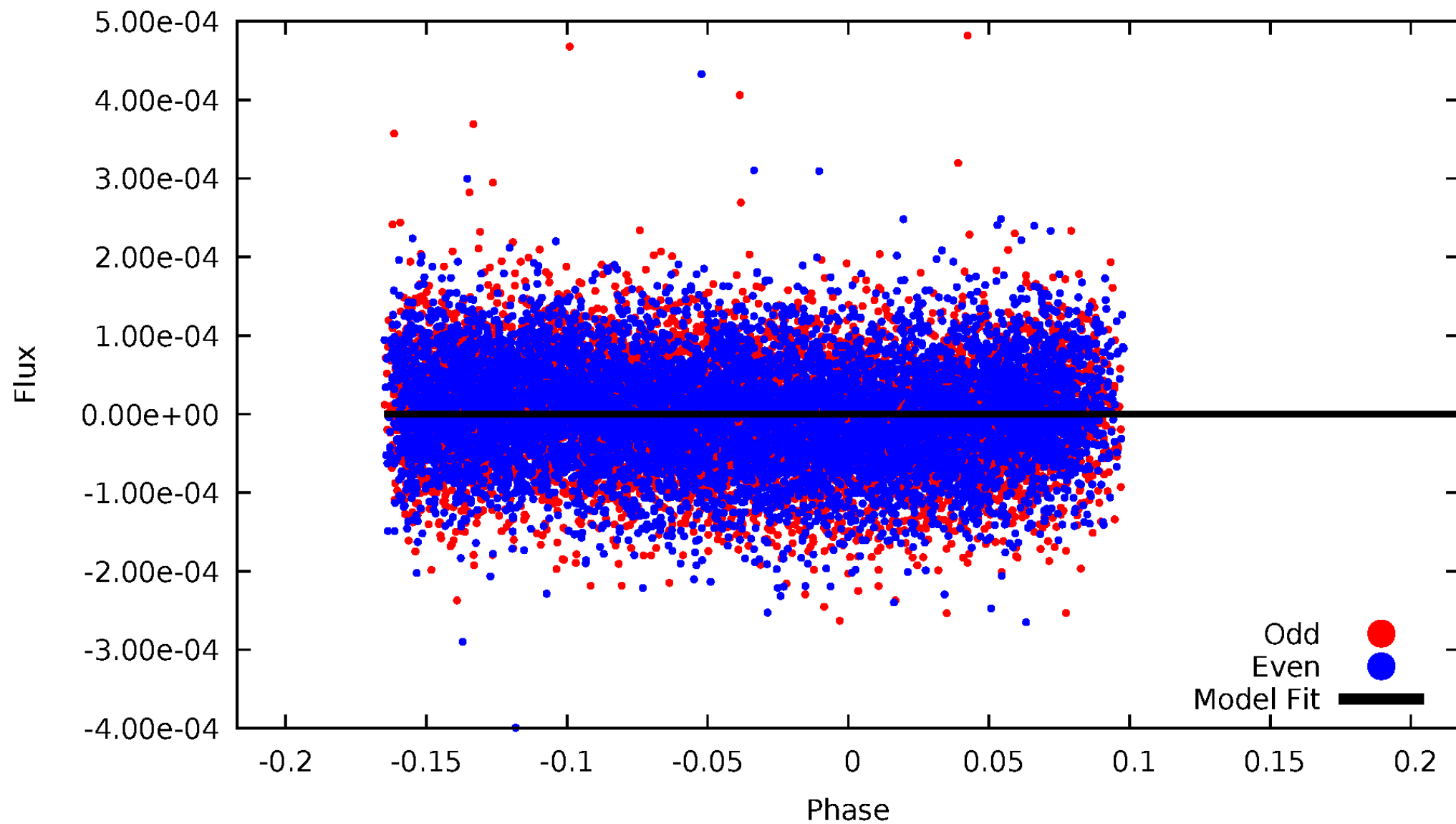


TCE 011197654-03



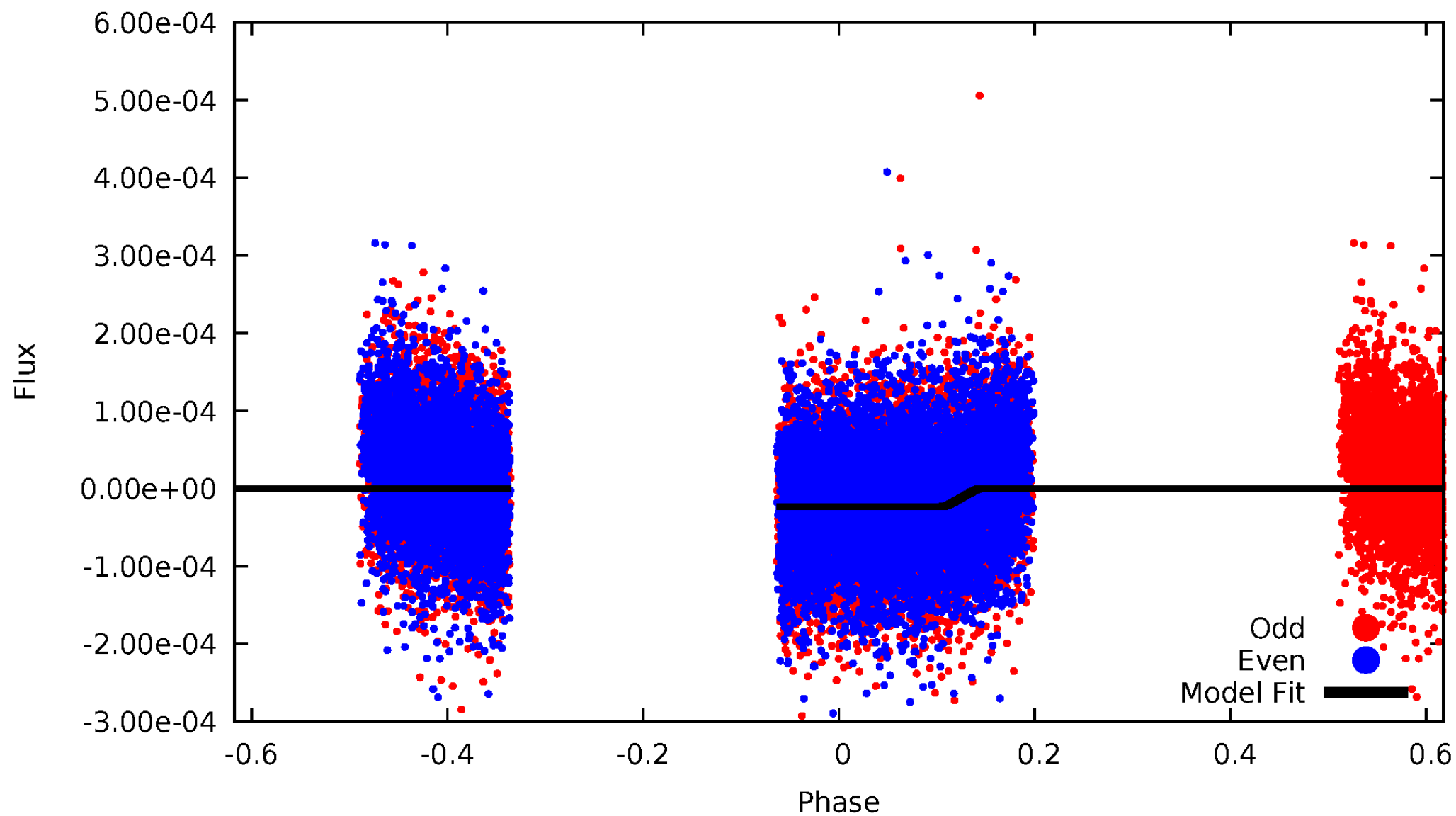
DV Odd/Even

TCE 011197654-03

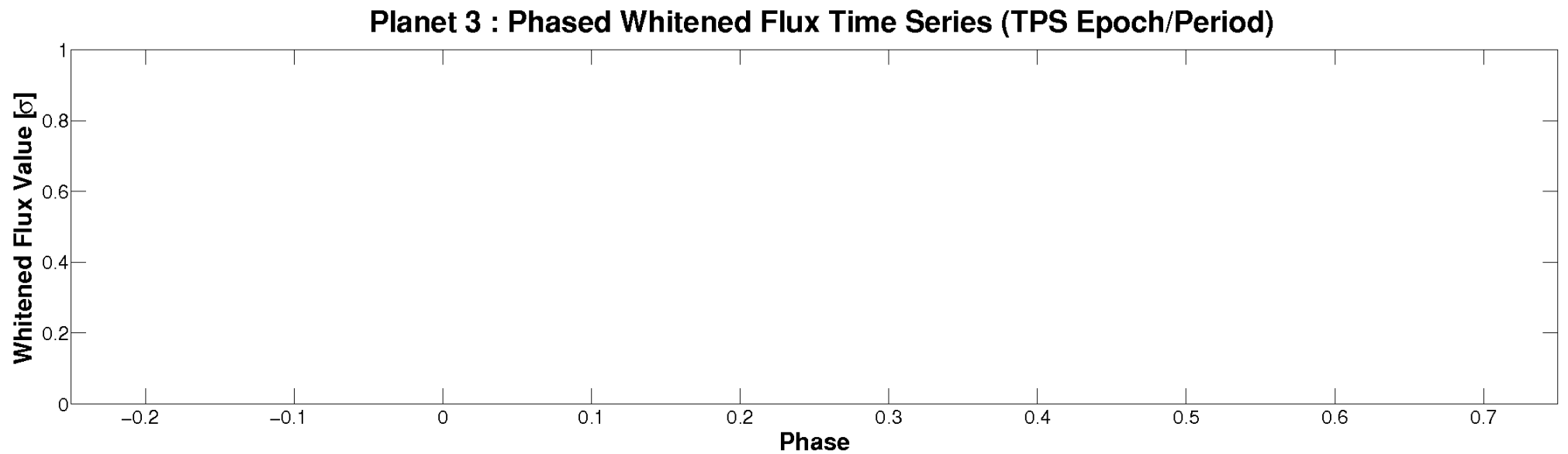
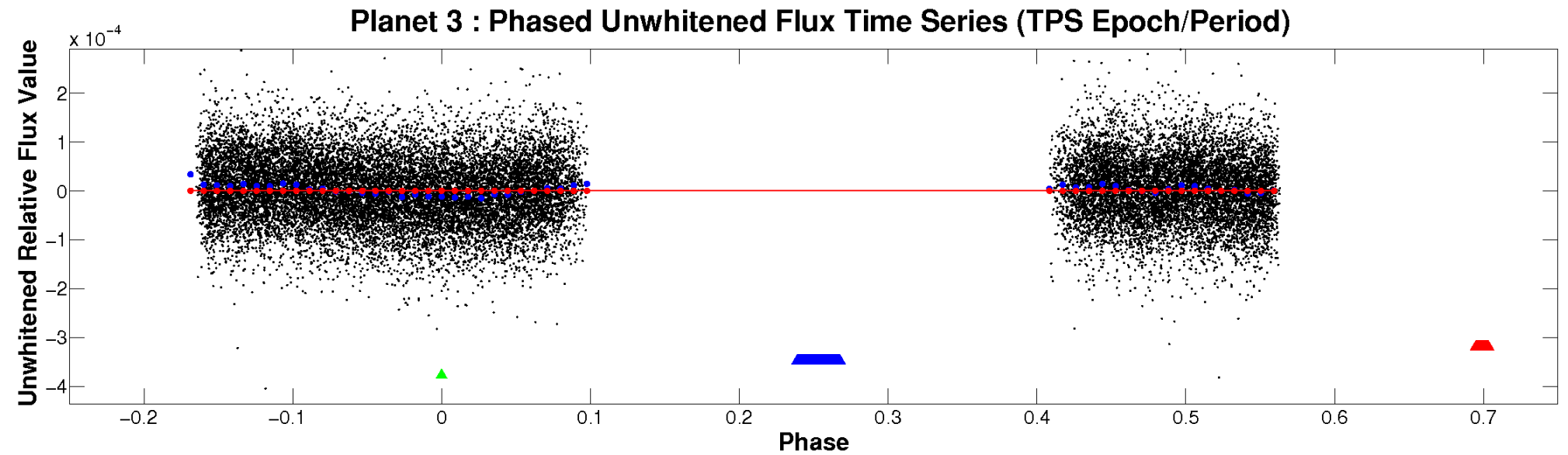


ALT Odd/Even

TCE 011197654-03

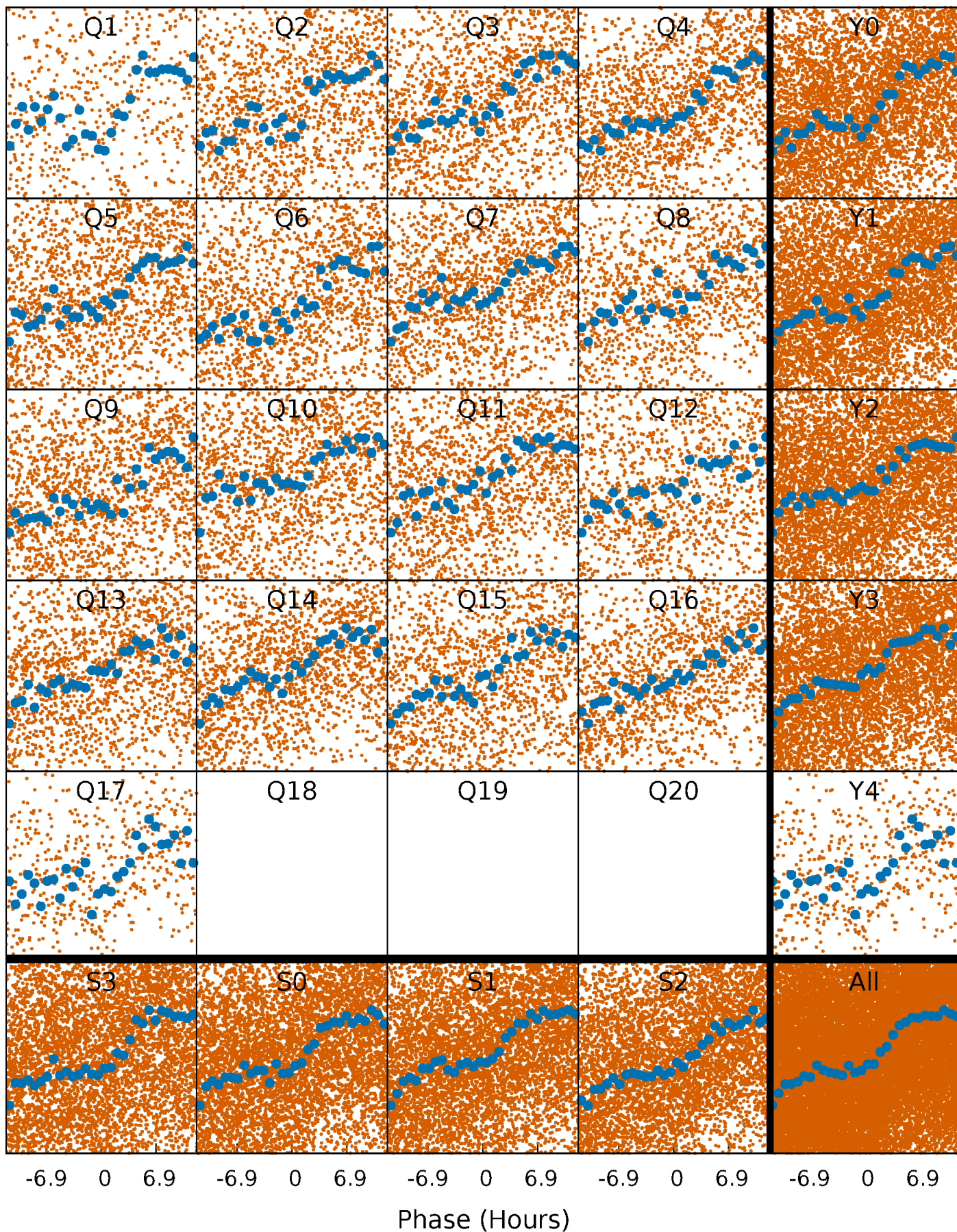


Non-Whitened Vs. Whitened Light Curve



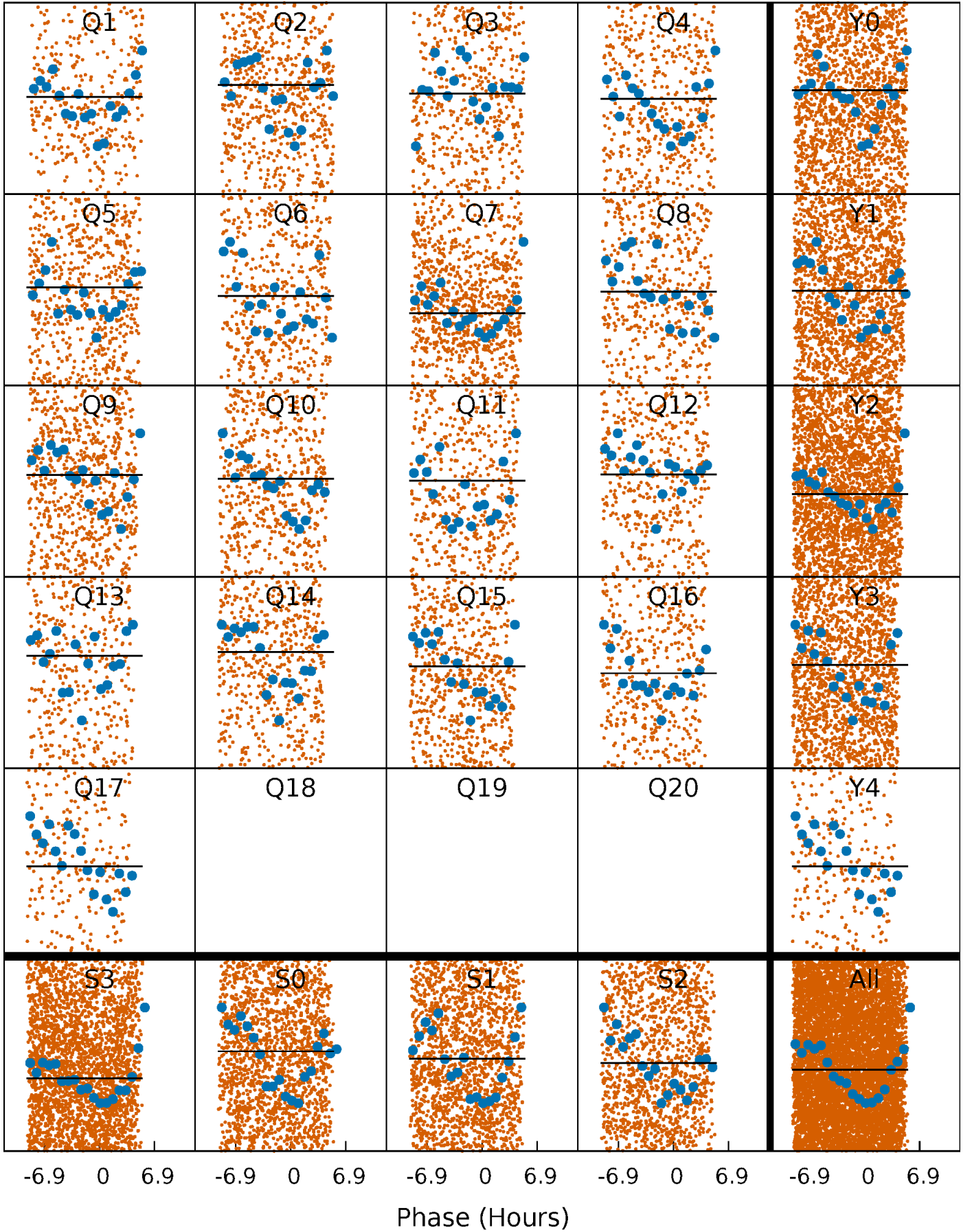
PDC Quarter-Phased Transit Curves

TCE 011197654-03 P= 2.301486 Days $T_0=131.684679$ (BKJD)



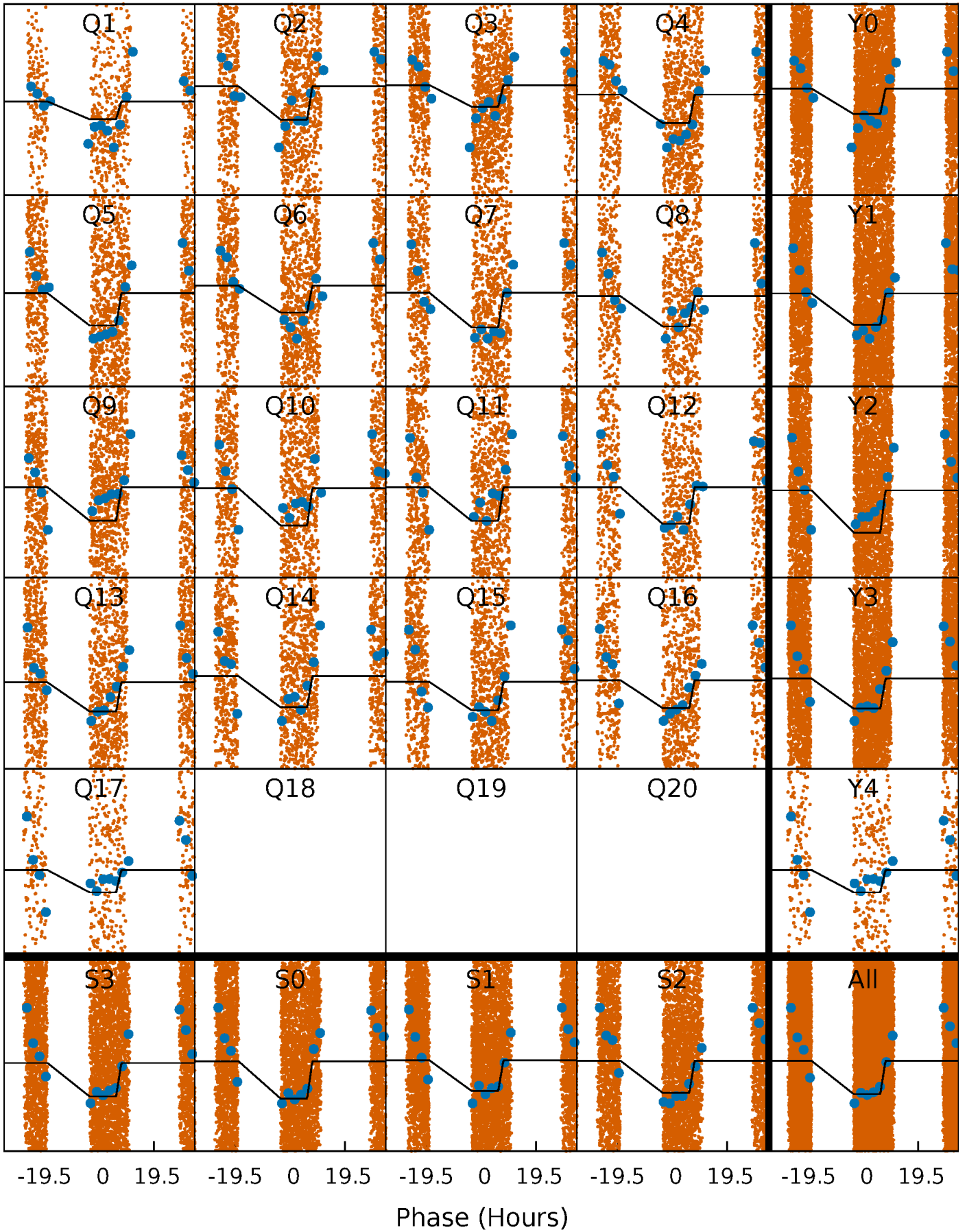
DV Quarter-Phased Transit Curves

TCE 011197654-03 P= 2.301486 Days $T_0=131.684679$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

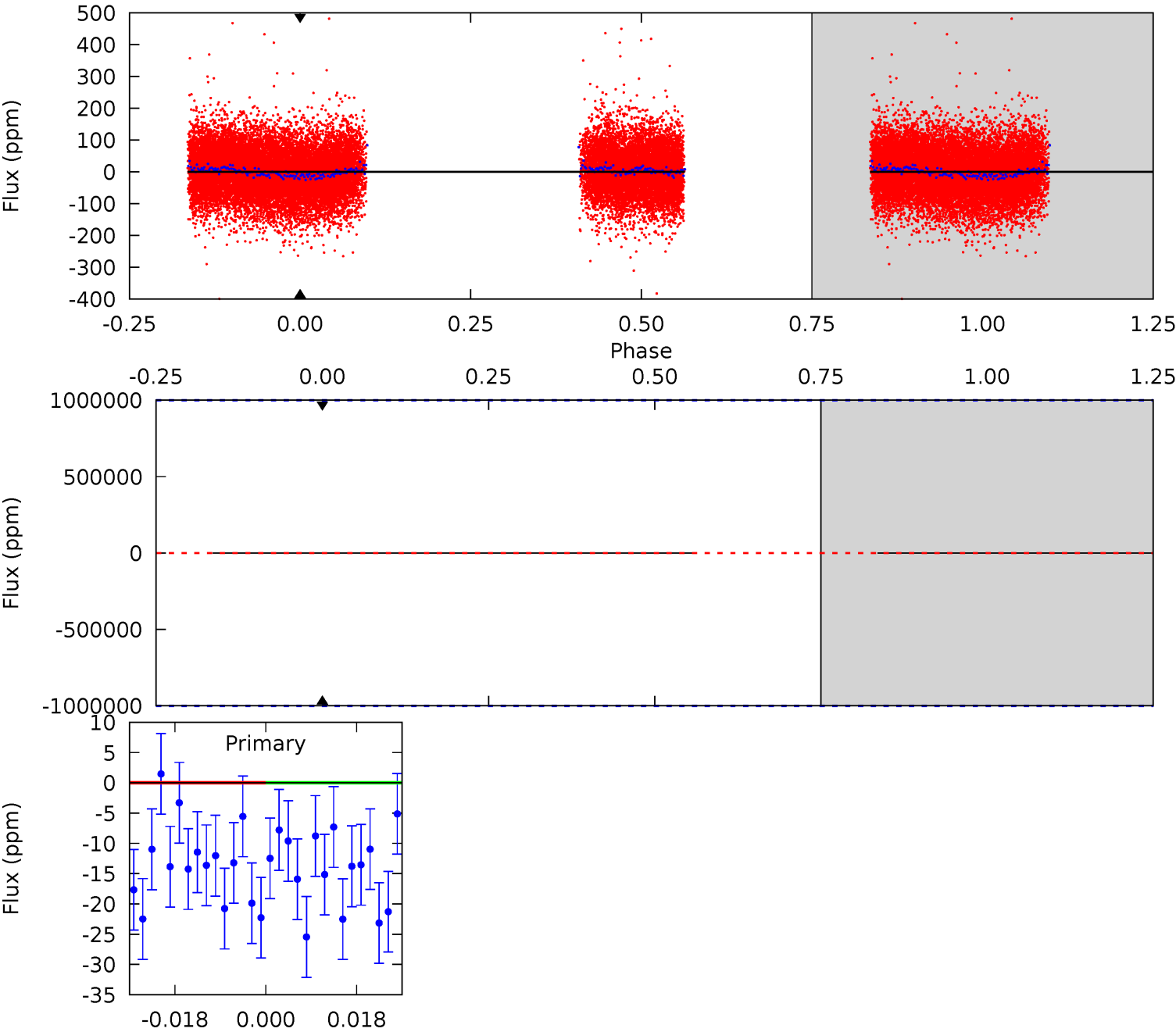
TCE 011197654-03 P= 2.301486 Days $T_0=133.752689$ (BKJD)



DV Model-Shift Uniqueness Test

011197654-03, P = 2.301486 Days, E = 129.383193 Days

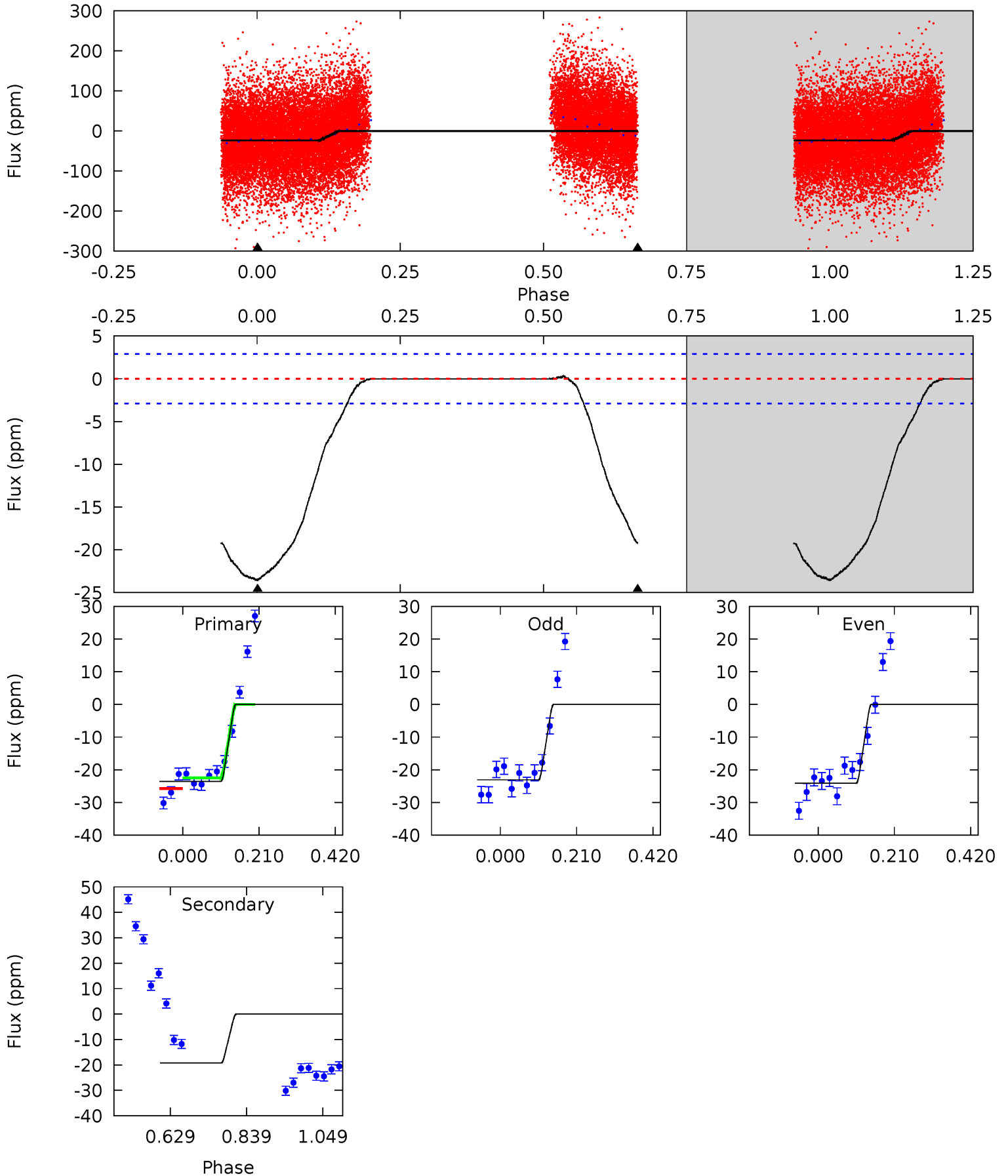
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011197654-03, P = 2.301486 Days, E = 131.451203 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.9	29.3	0	0	4.41	1.25	0.70	35.9	35.9	29.3	29.3	0.78	0.99	0.02	2.30



Stellar Parameters For KIC 011197654

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8403^{+231}_{-396}	$4.153^{+0.104}_{-0.169}$	$0.070^{+0.250}_{-0.500}$	$1.917^{+0.496}_{-0.330}$	$1.905^{+0.349}_{-0.349}$	$0.381^{+0.192}_{-0.175}$
	+3%/-5%	+3%/-4%	+357%/-714%	+26%/-17%	+18%/-18%	+50%/-46%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 011197654-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$15.43^{+18.08}_{-10.38}$	3490^{+225}_{-217}	6851^{+49420}_{-50985}	$8.935^{+779.357}_{-599.123}$
Alt.	-19 ± 1	$14.46^{+16.62}_{-9.77}$	3505^{+236}_{-213}	-3109^{+6687}_{-221}	$0.089^{+0.764}_{-0.070}$

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

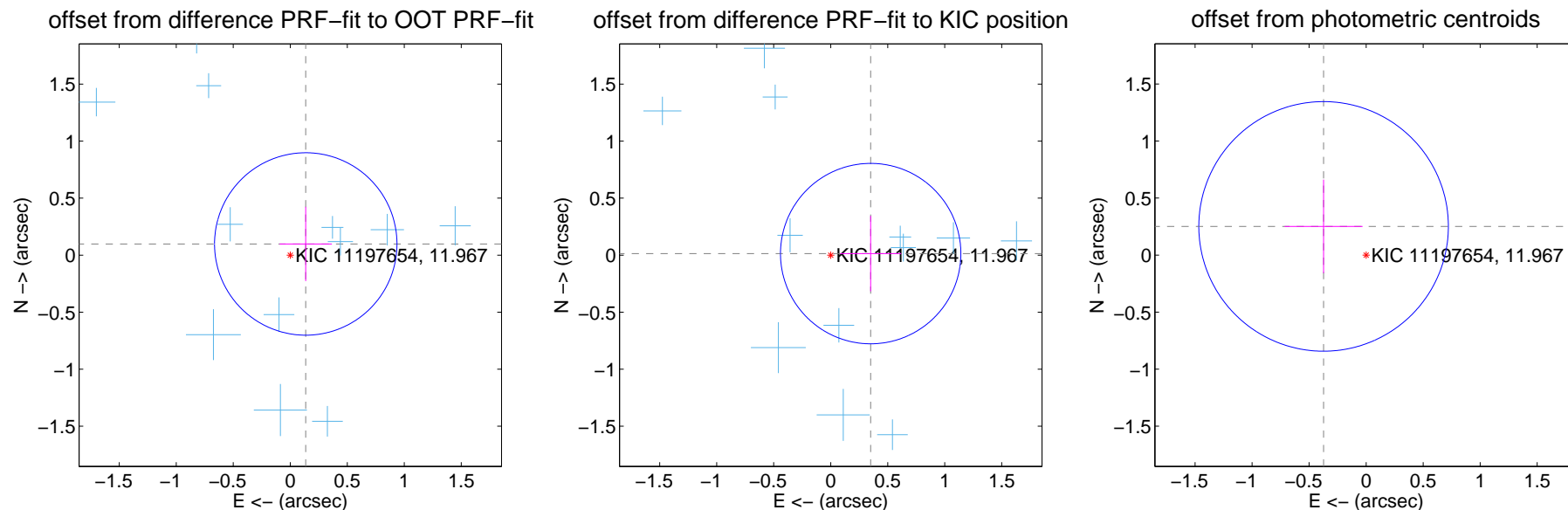
DV Centroid Data

Supplemental centroid analysis for 011197654-03. **Kepler magnitude: 11.97.** Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

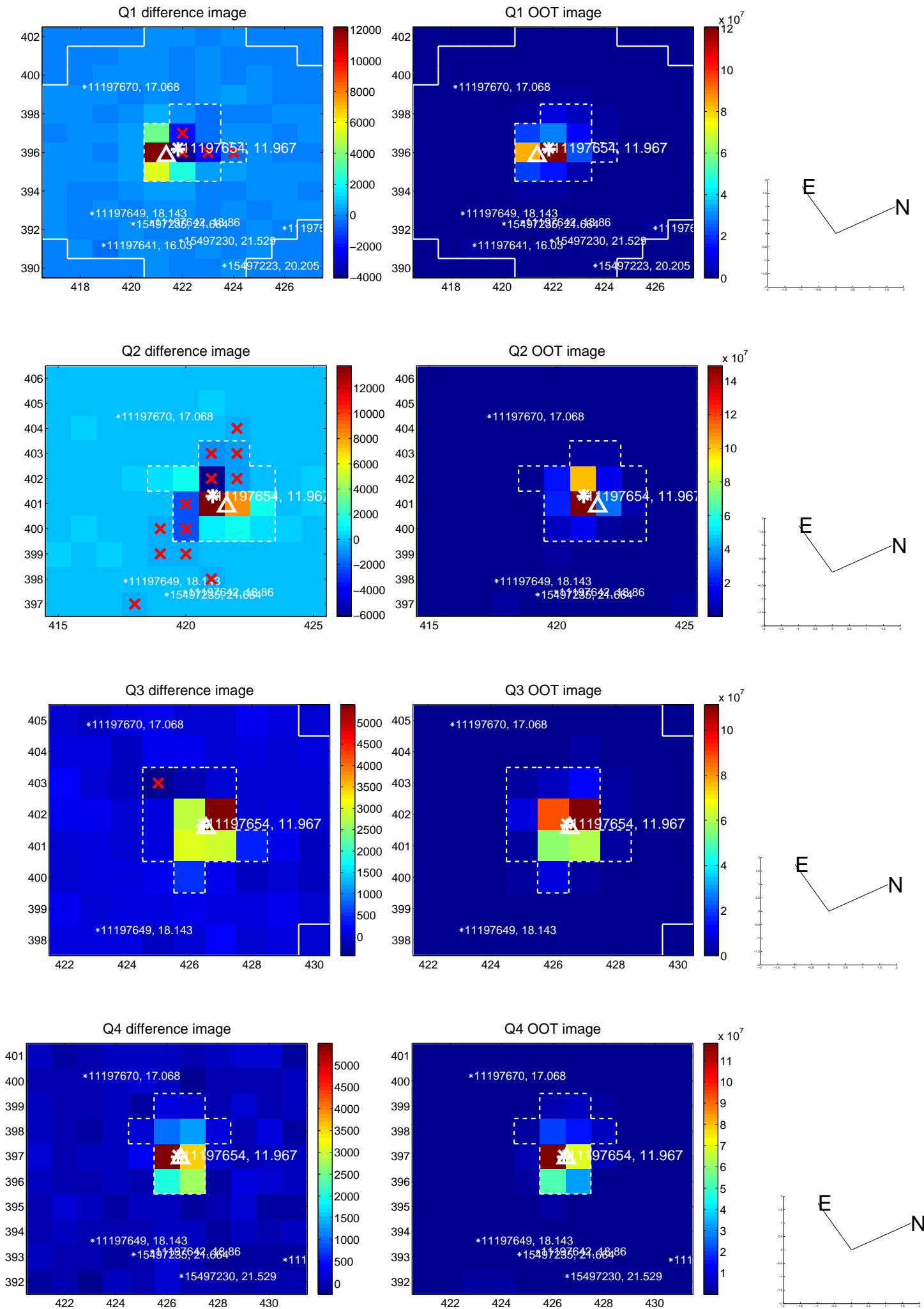
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.168 ± 0.267	0.63	-0.136 ± 0.230	0.098 ± 0.326
PRF-fit source offset from KIC position	0.351 ± 0.264	1.33	-0.350 ± 0.268	0.014 ± 0.330
photometric centroid source offset	0.45 ± 0.36	1.23	0.37 ± 0.34	0.25 ± 0.41

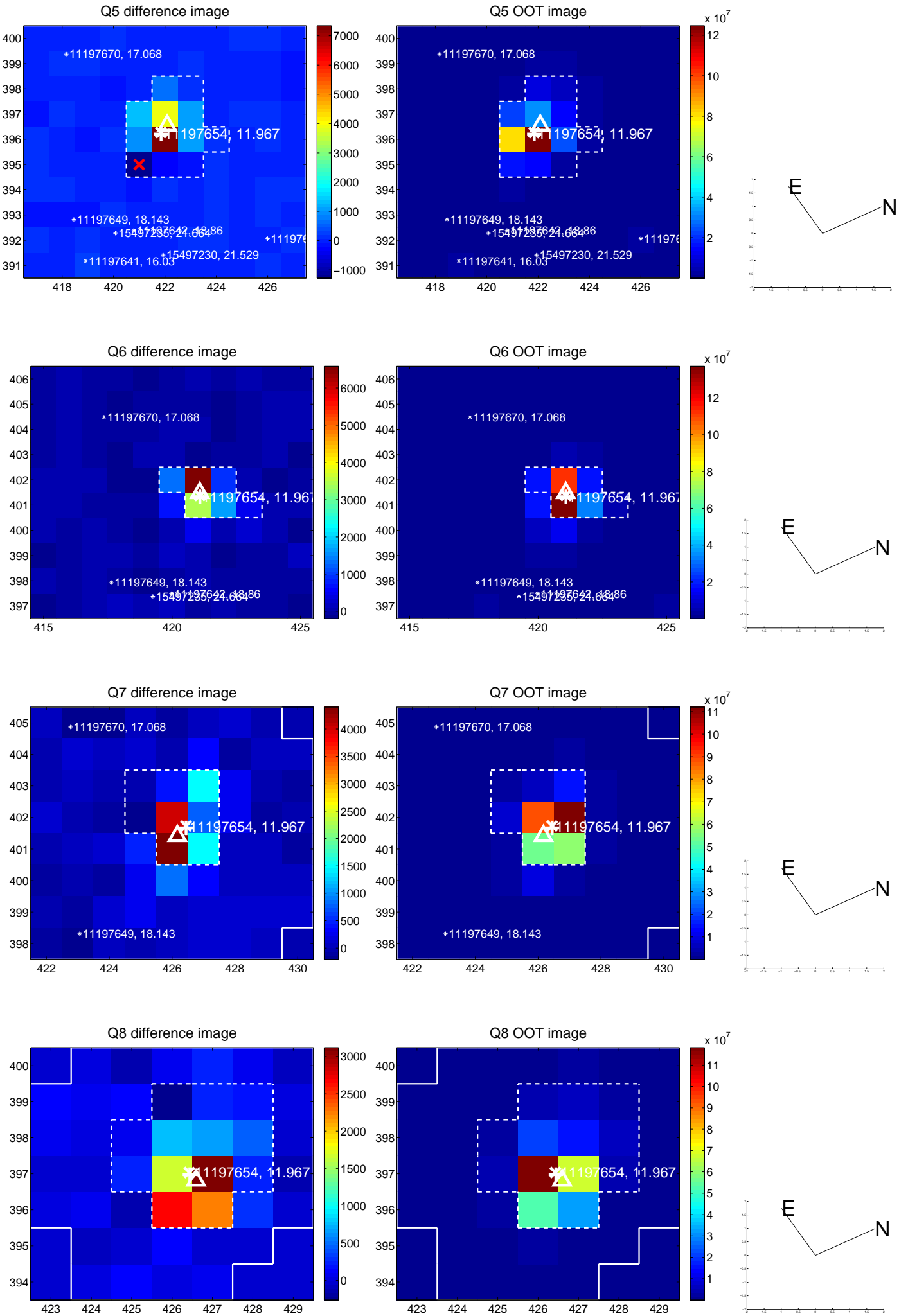


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

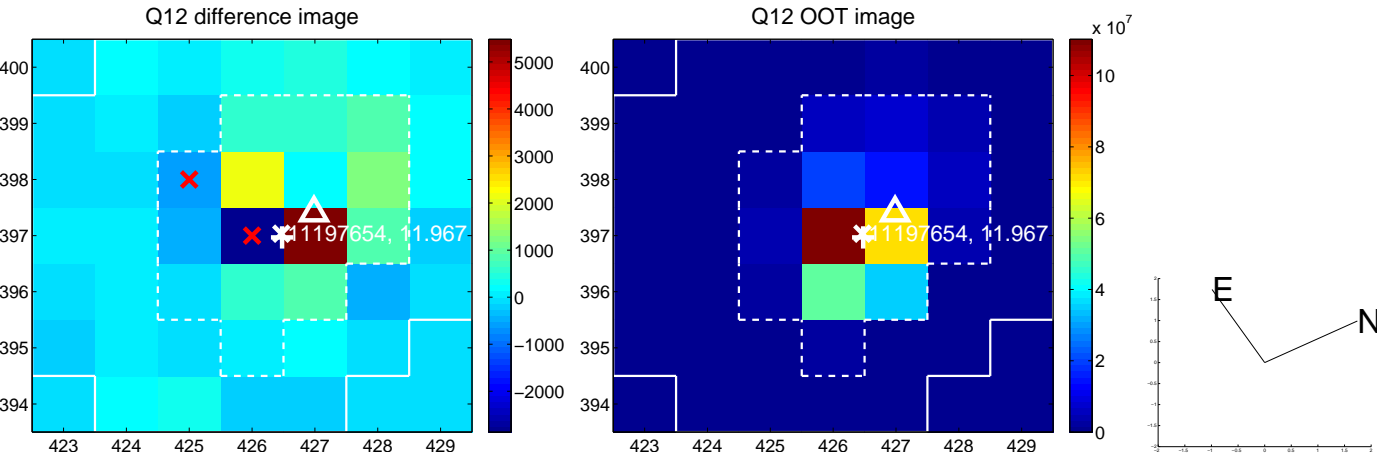
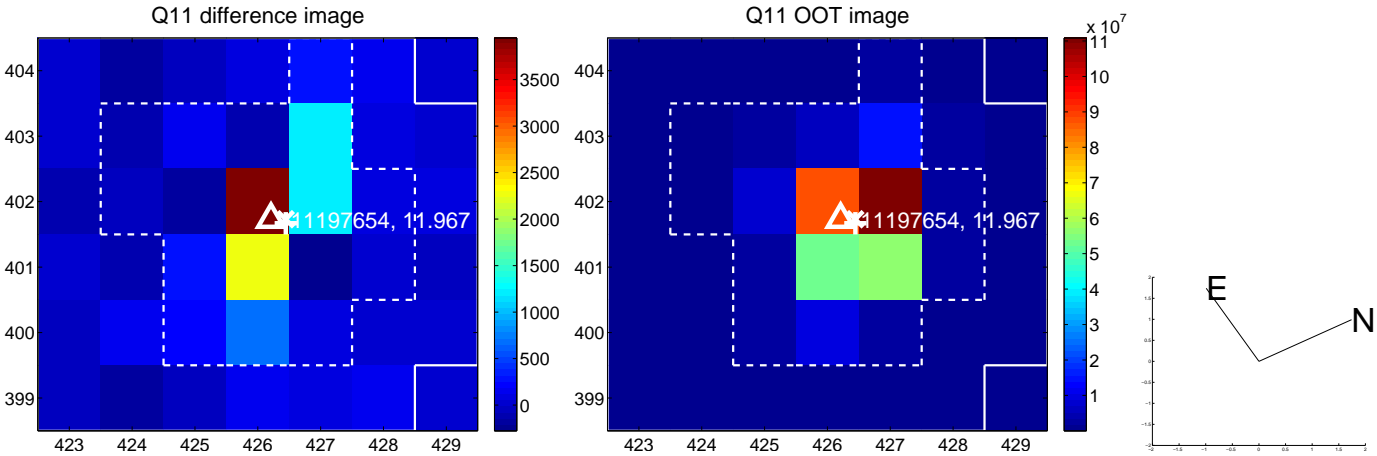
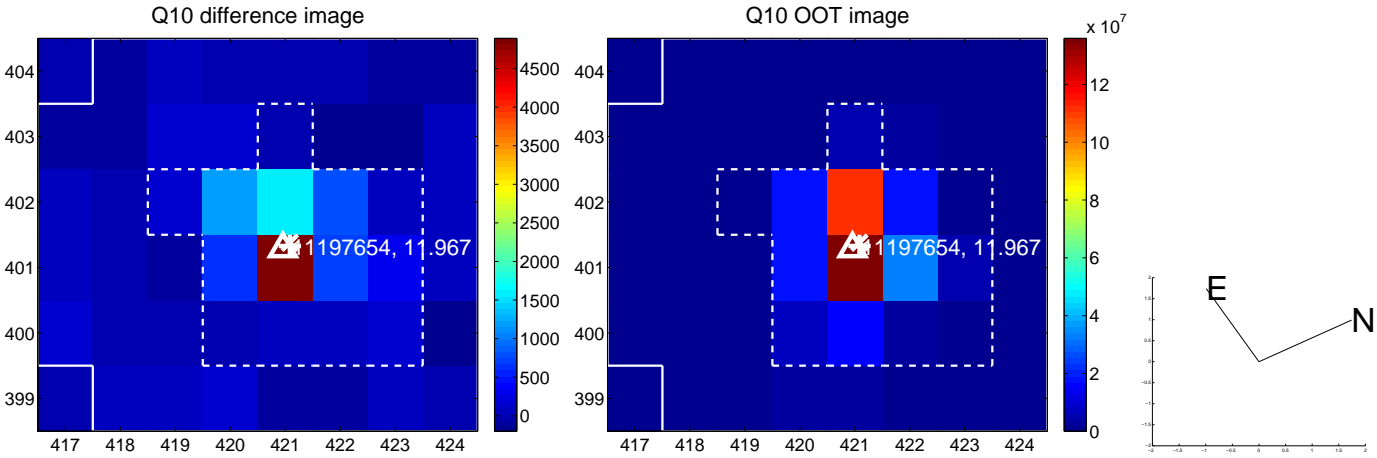
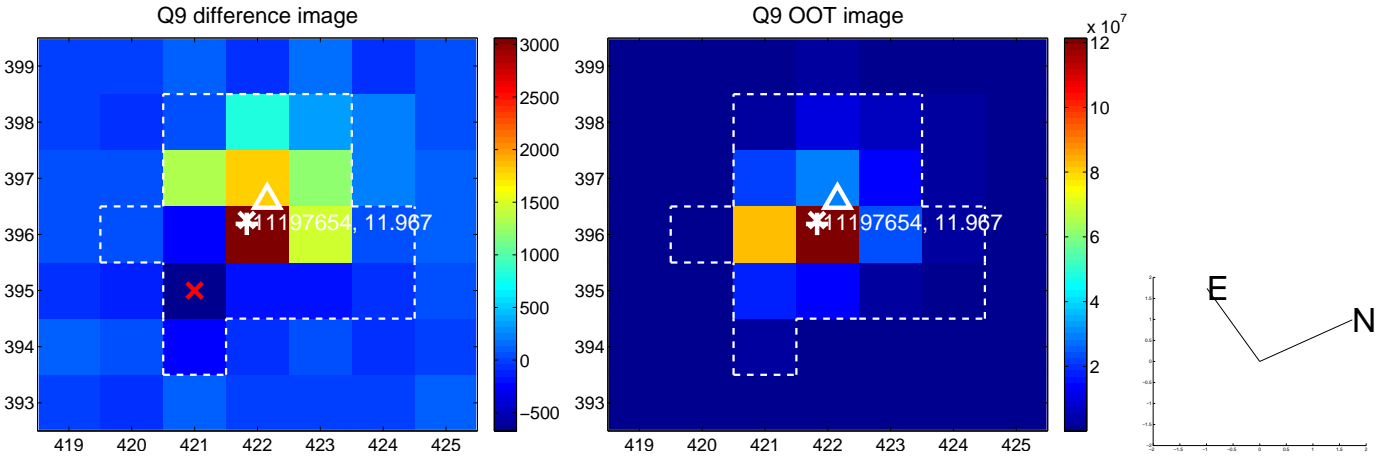
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



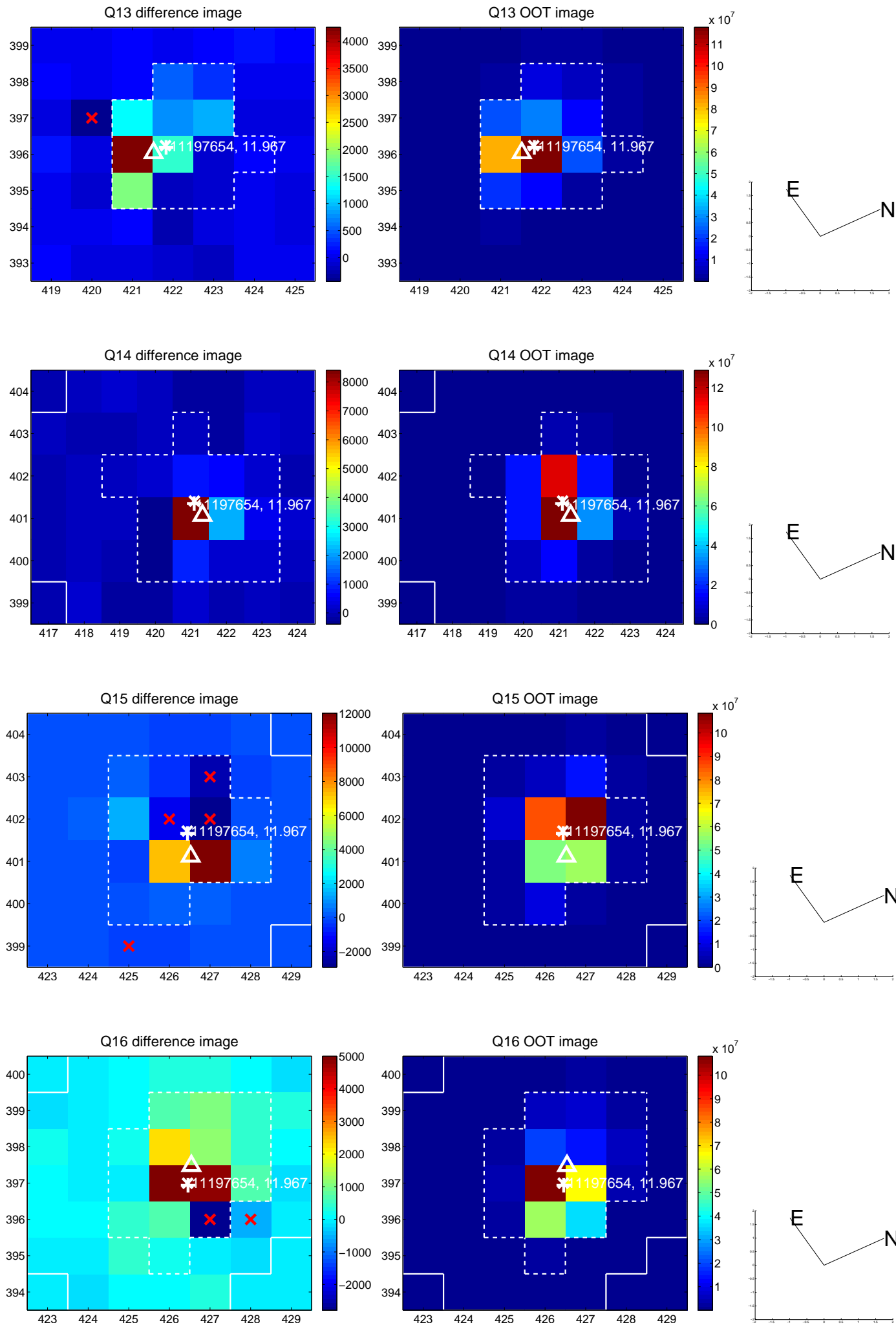
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



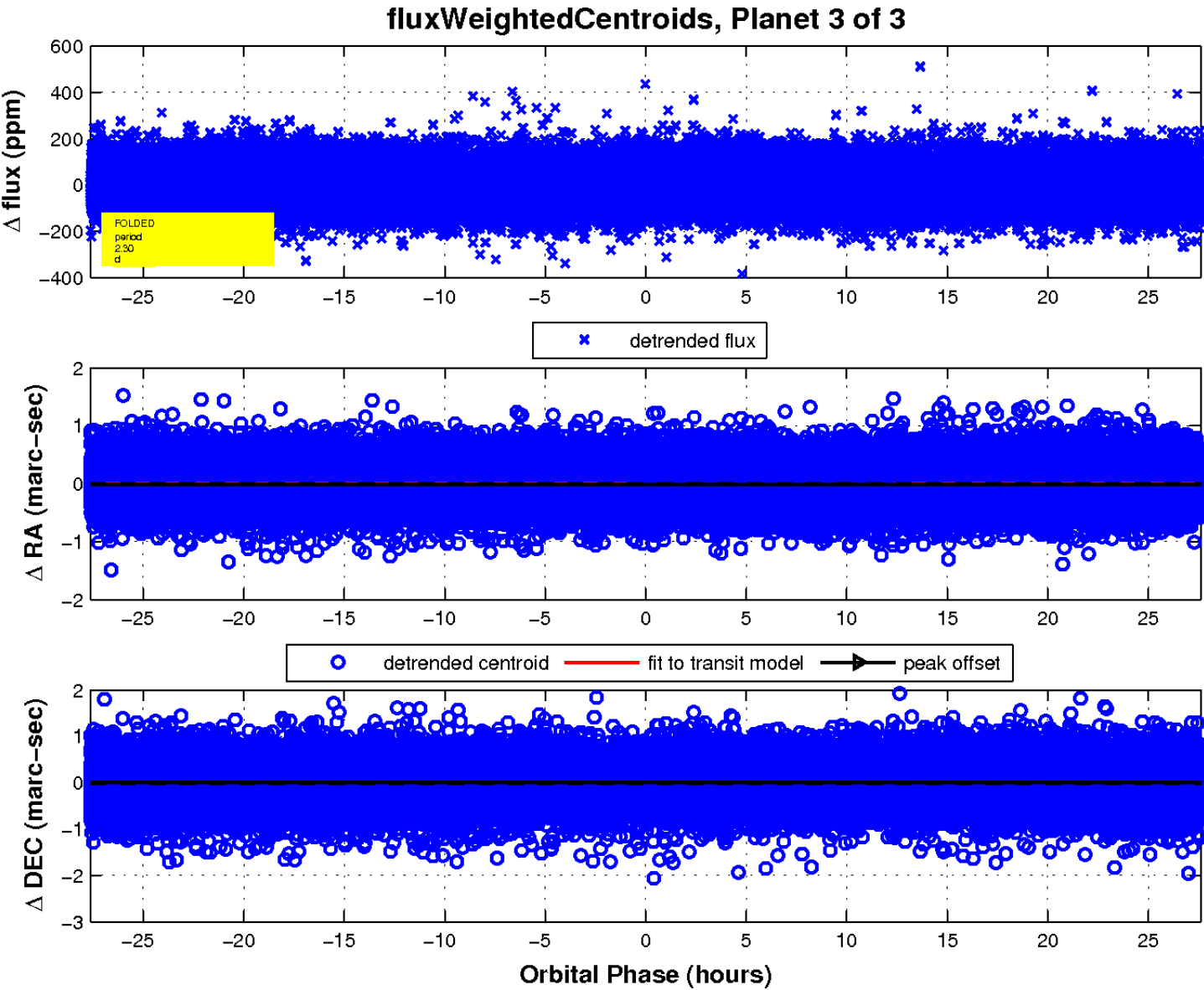
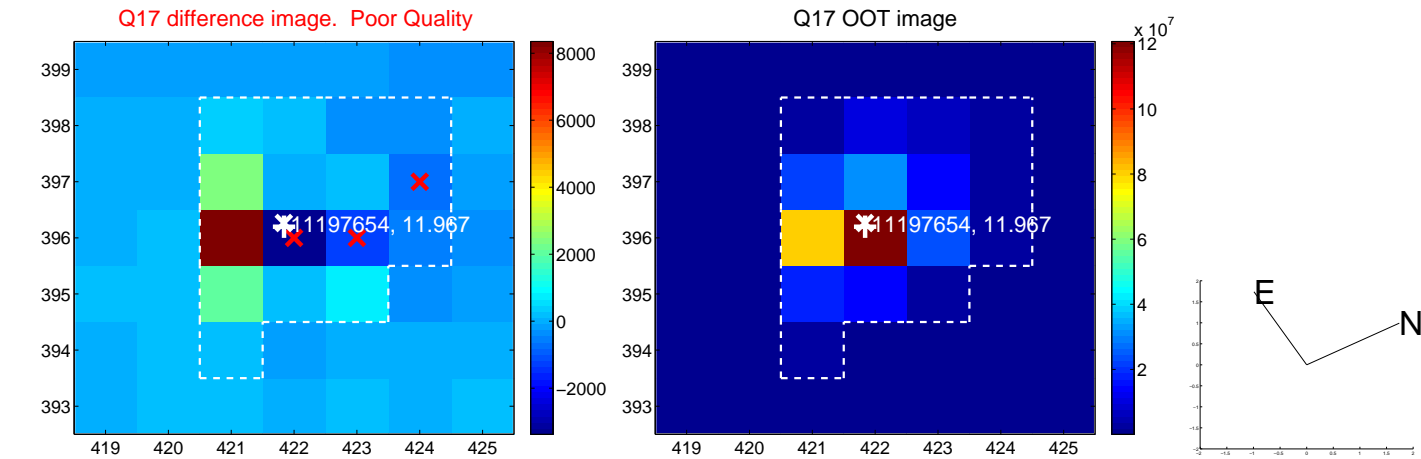
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



UKIRT Image

Declination

