

KIC 007368103

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})
007368103-01	OBS	6869.01	2.182516	132.353550	108988.7	6.063	4048.7	3005.7	2.35	8051	122.73	12648.12
007368103-02	OBS	No	1.091245	132.352452	348.0	4.006	26.8	15.7	2.35	8051	5.06	31871.75
007368103-03	OBS	No	2.182458	131.613277	219.6	3.000	12.6	-1.0	2.35	8051	3.52	12648.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007368103-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—DEEP_V_SHAPED—HAS_SEC_TCE
007368103-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007368103-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

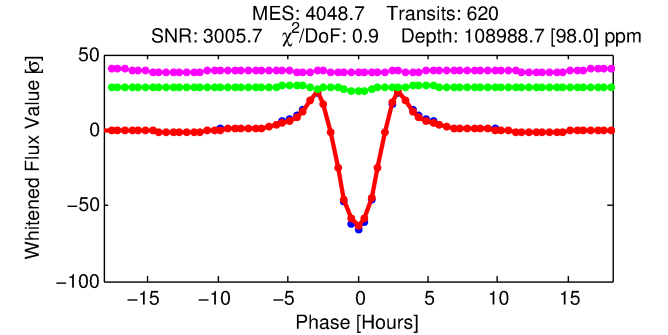
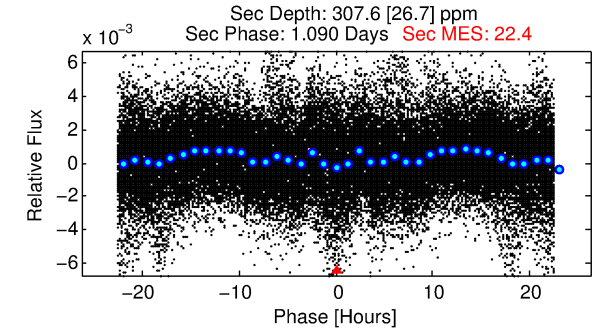
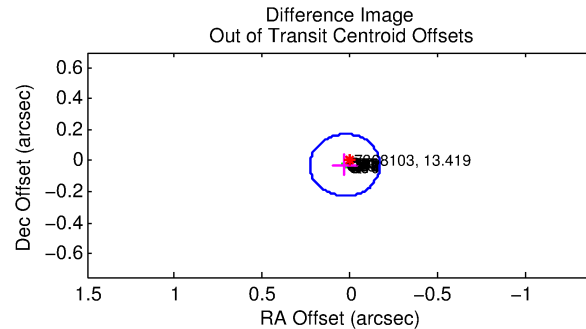
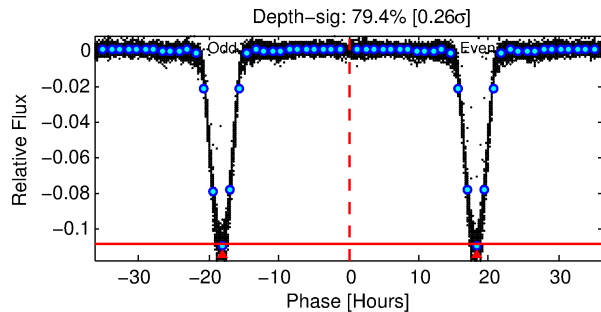
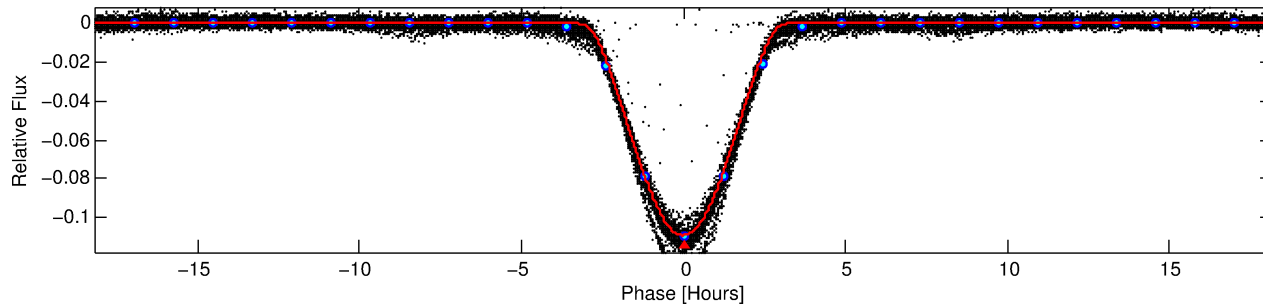
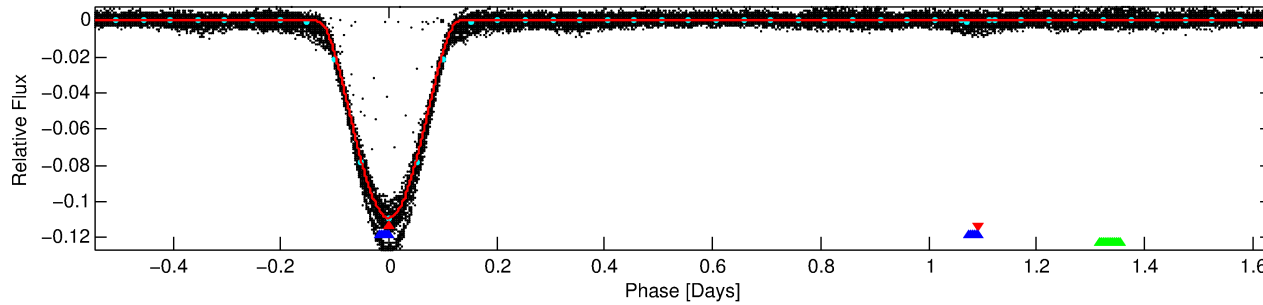
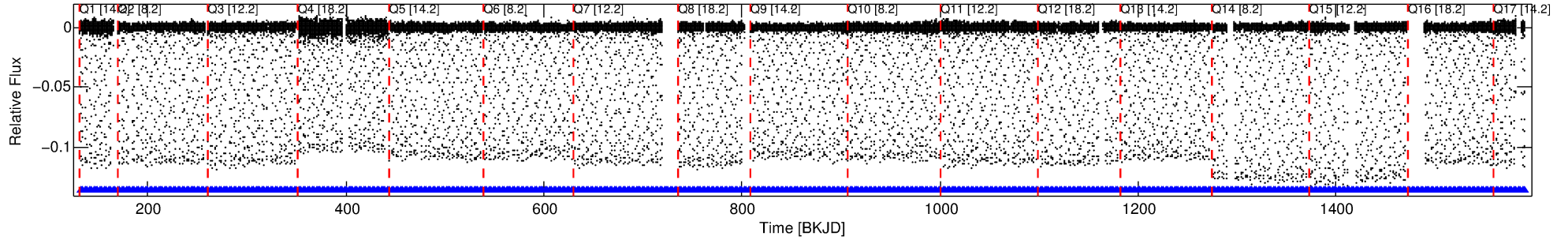
Ephemeris Match Information For 007368103-01

No Significant Match Found

DV One-Page Summary

KIC: 7368103 Candidate: 1 of 3 Period: 2.183 d
KOI: K06869.01 Corr: 0.941

Kp: 13.42 R*: 2.35 Rs Teff: 8051.0 K Logg: 3.97 Fe/H: -0.140



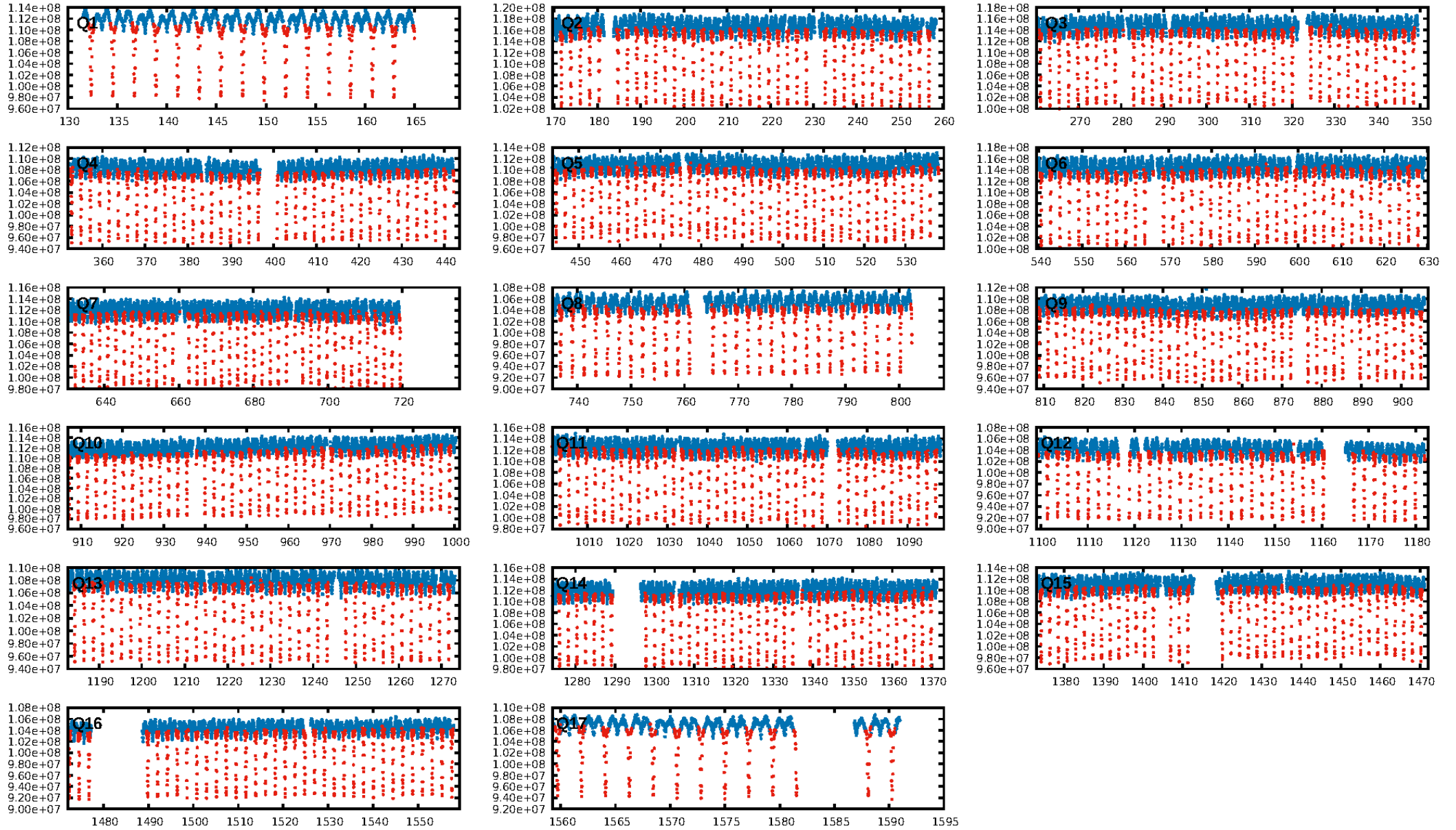
DV Fit Results:

Period = 2.18252 [0.00000] d
Epoch = 132.3535 [0.0000] BKJD
Rp/R* = 0.4792 [0.0251]
a/R* = 3.31 [0.02]
b = 0.96 [0.03]
Seff = 12648.12 [5602.80]
Teff = 2704 [299] K
Rp = 122.73 [40.26] Re
a = 0.0405 [0.0112] AU
Ag = 0.02 [0.01] [-123.40σ]
Teffp = 1540 [83] K [-3.74σ]

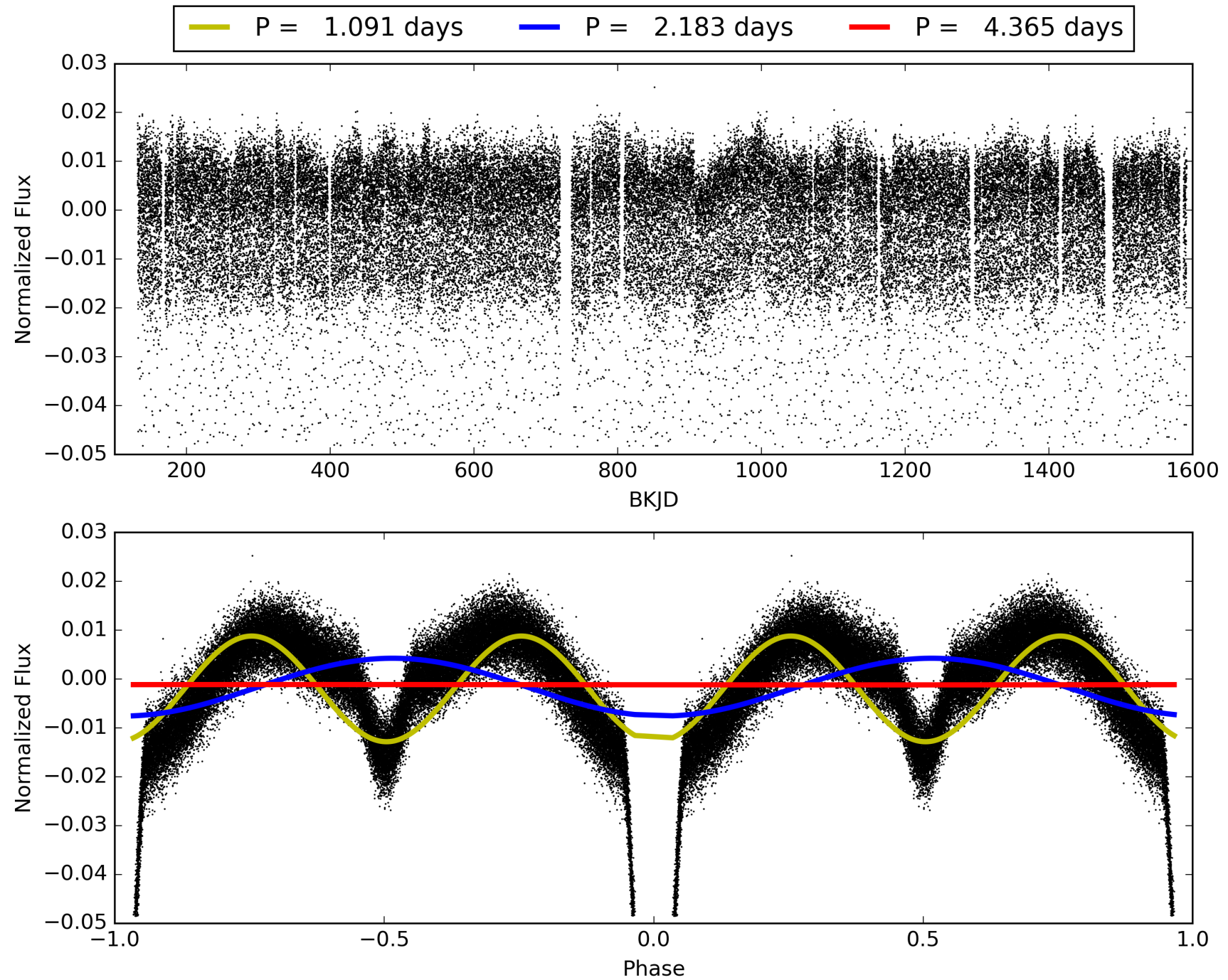
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [591/591]
GhostDiagnostic-chr: 2.138
Centroid-sig: N/A
Centroid-so: 0.167 arcsec [216.14σ]
OotOffset-rm: 0.041 arcsec [0.62σ]
KicOffset-rm: 0.141 arcsec [2.07σ]
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]

TCE 007368103-01, PDC Light Curves

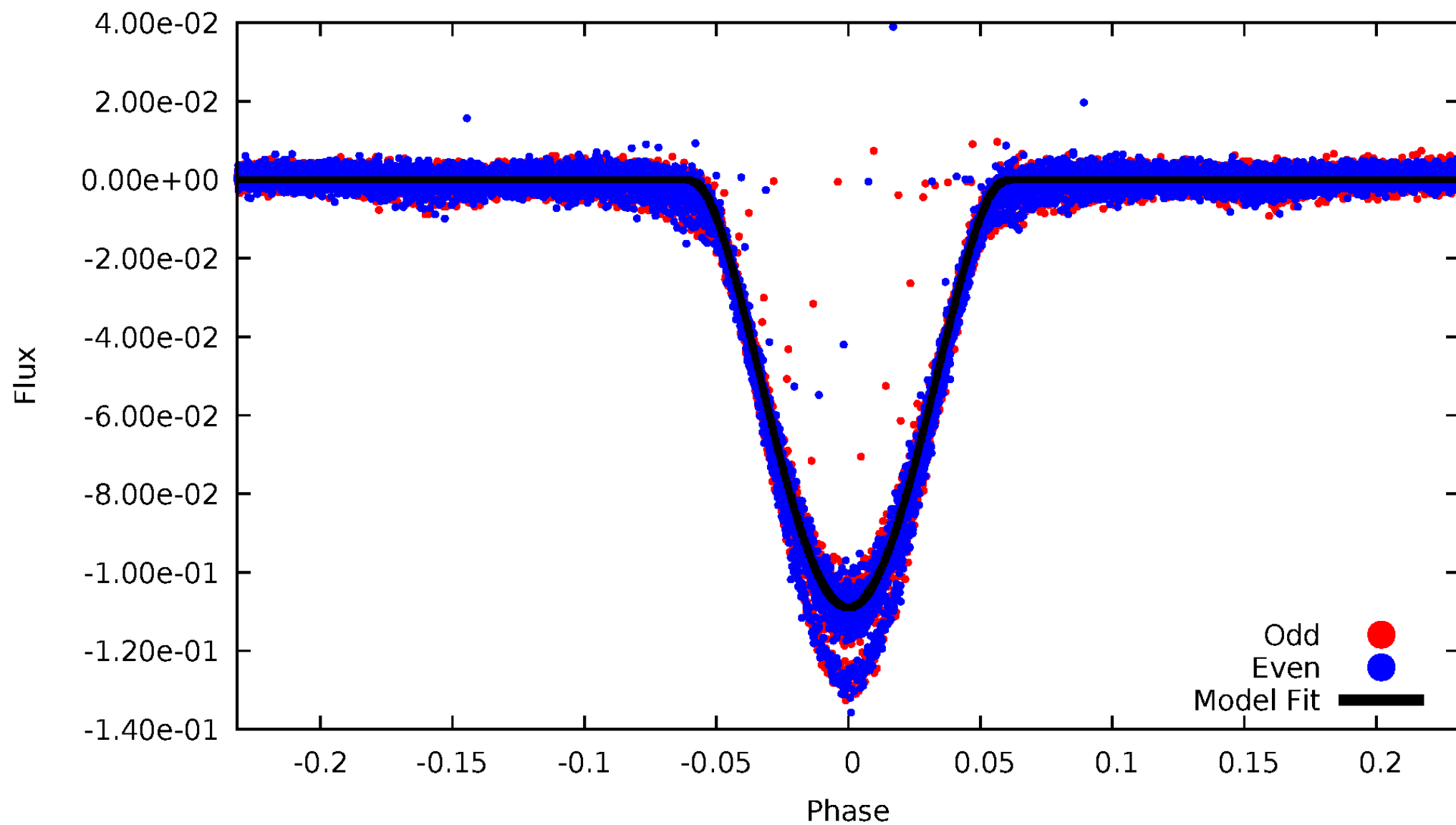


TCE 007368103-01



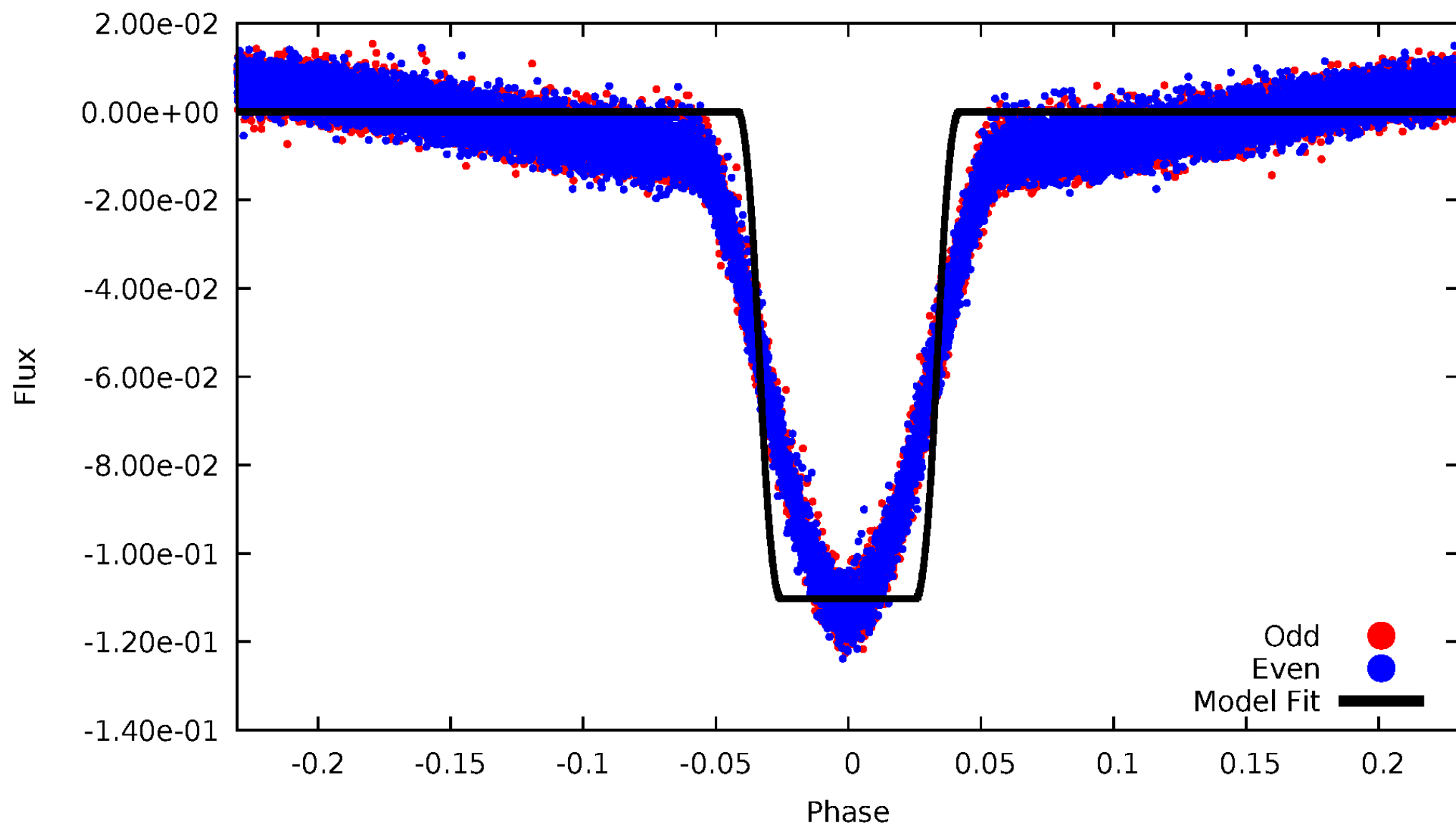
DV Odd/Even

TCE 007368103-01



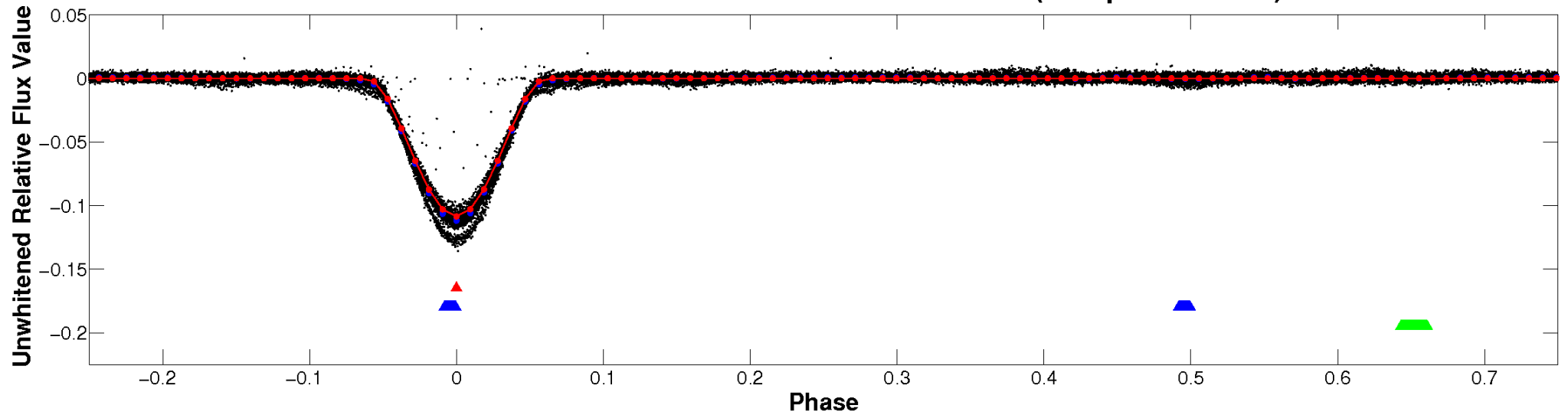
ALT Odd/Even

TCE 007368103-01

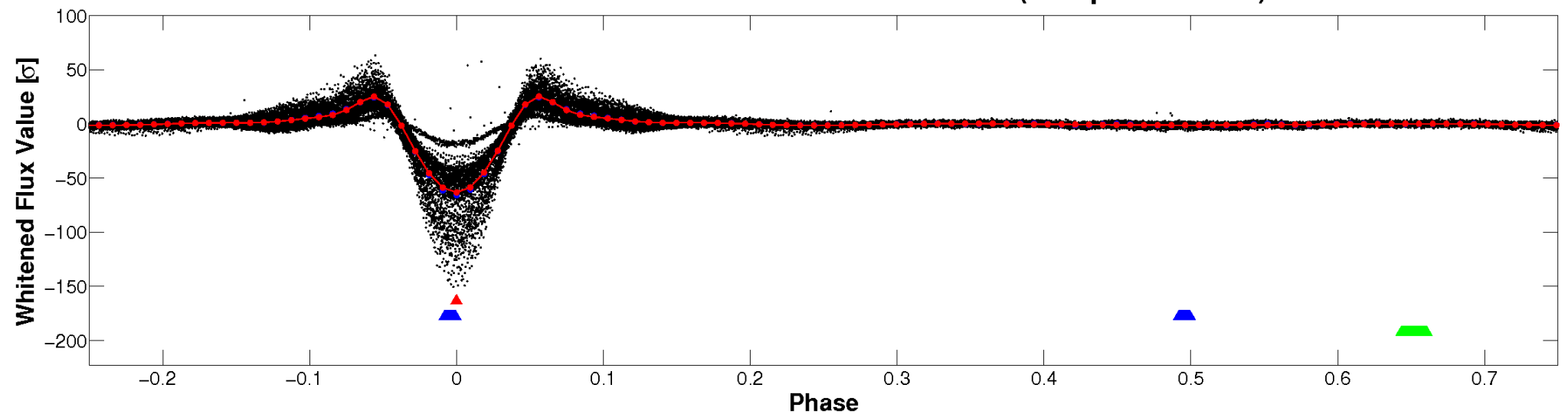


Non-Whitened Vs. Whitened Light Curve

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

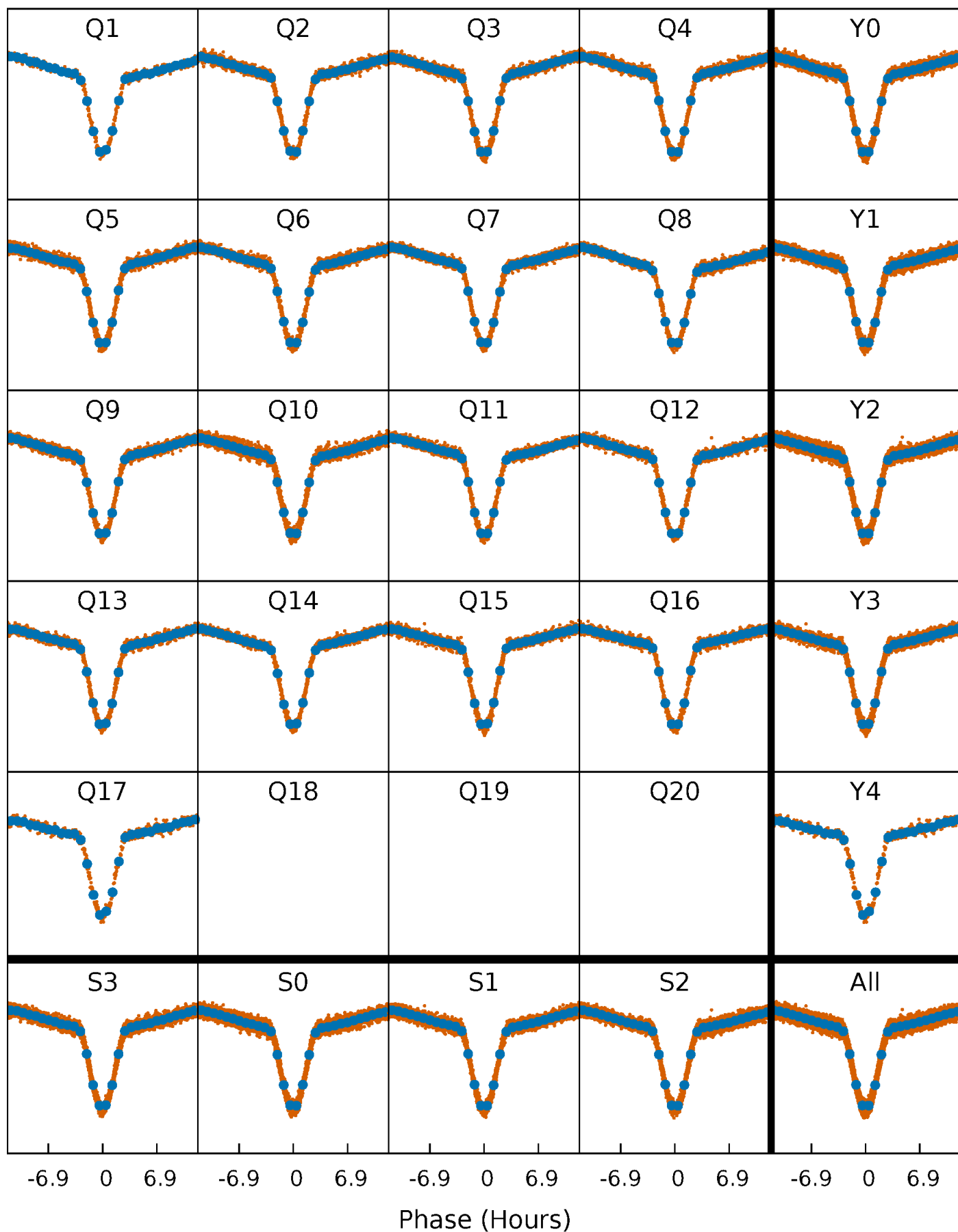


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



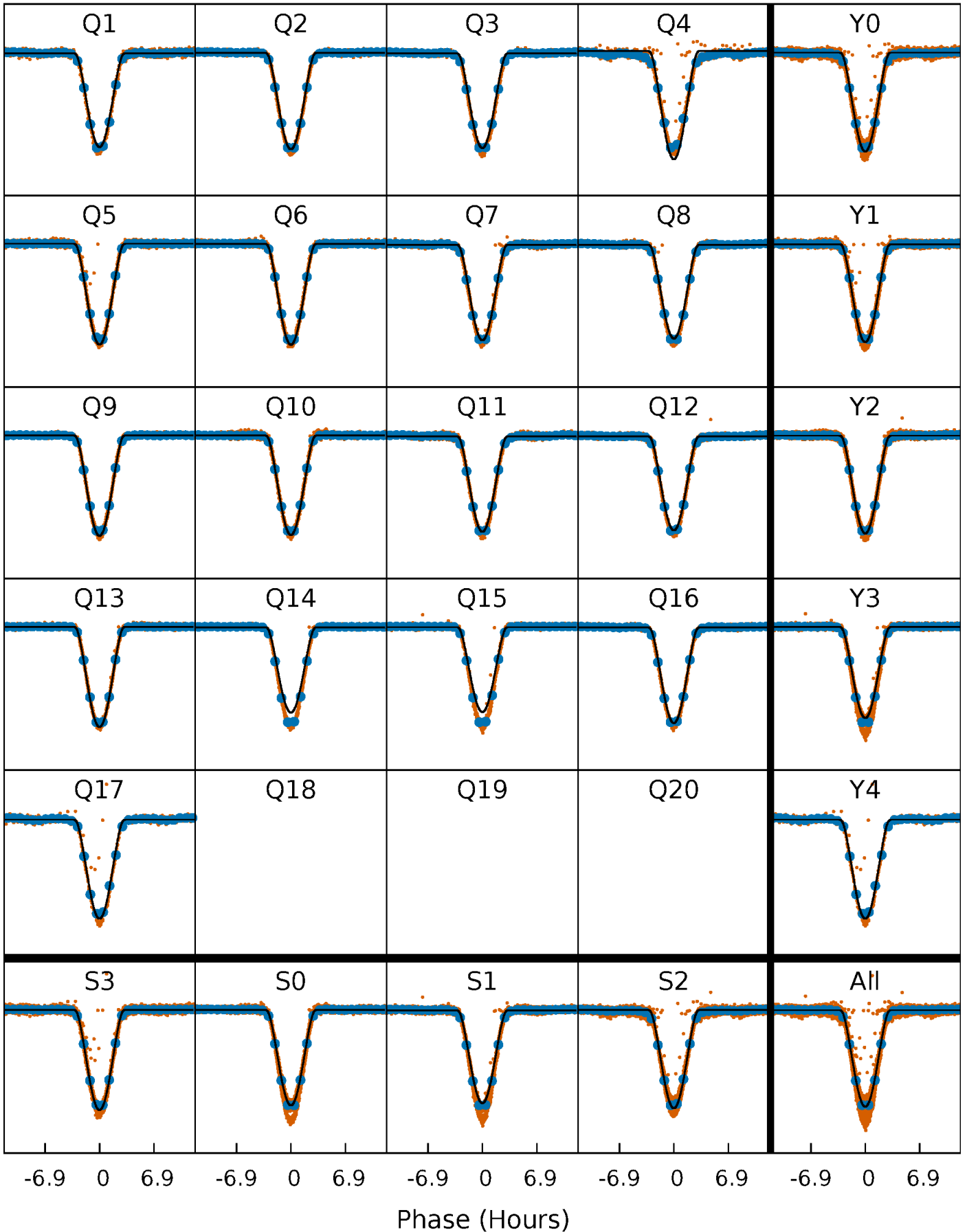
PDC Quarter-Phased Transit Curves

TCE 007368103-01 P= 2.182516 Days $T_0=132.353550$ (BKJD)



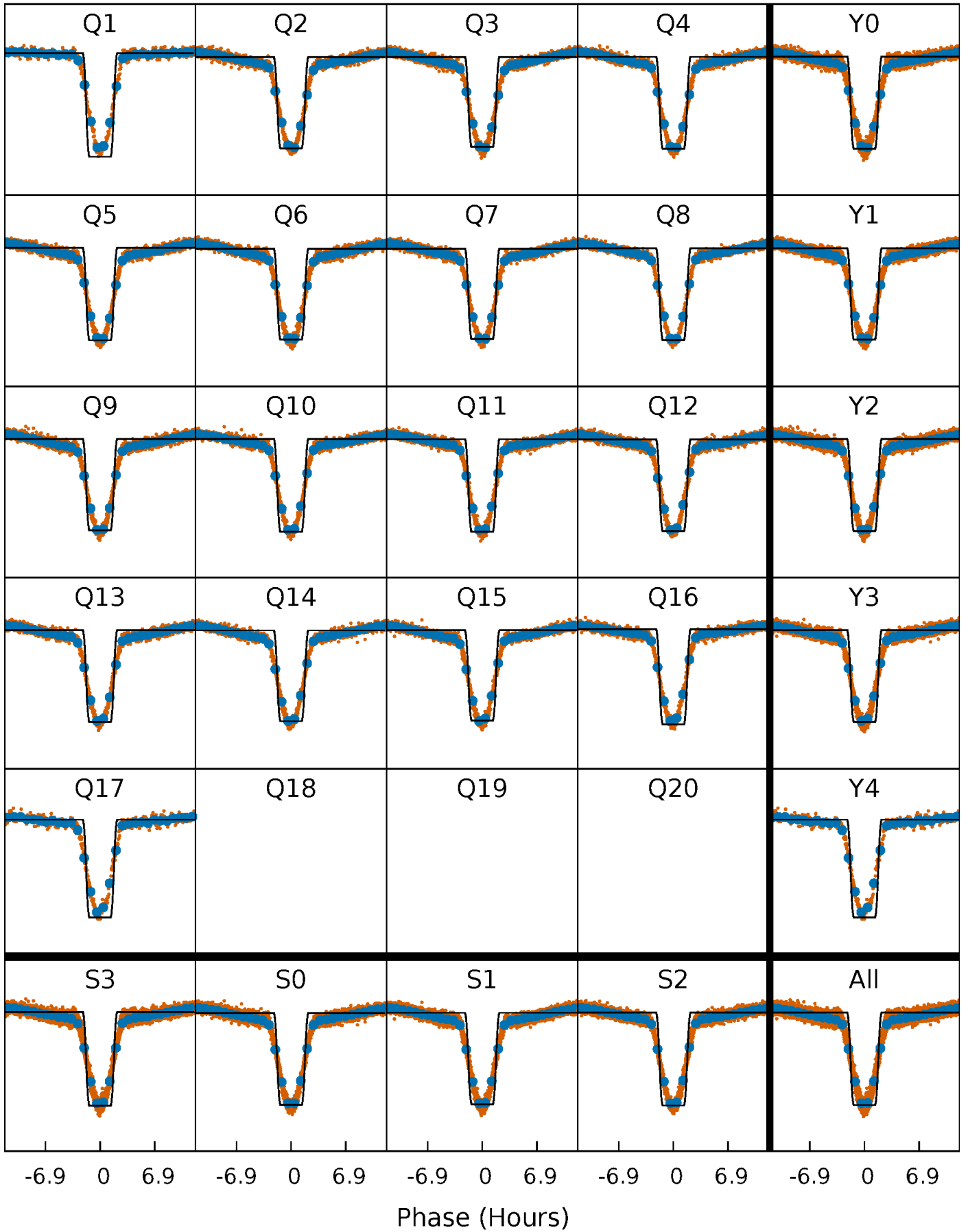
DV Quarter-Phased Transit Curves

TCE 007368103-01 P= 2.182516 Days $T_0=132.353550$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

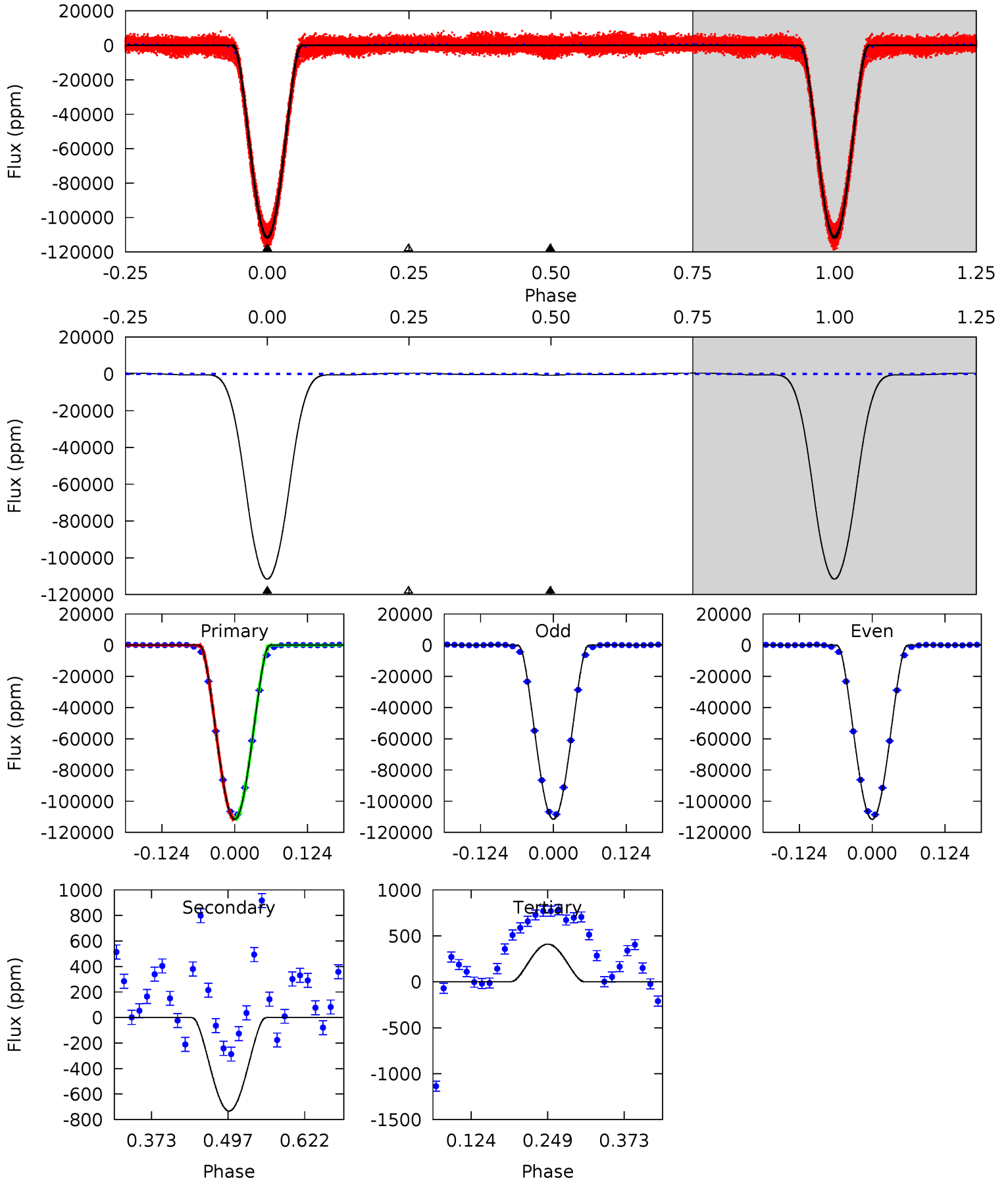
TCE 007368103-01 P= 2.182526 Days $T_0=132.350523$ (BKJD)



DV Model-Shift Uniqueness Test

007368103-01, P = 2.182516 Days, E = 130.171034 Days

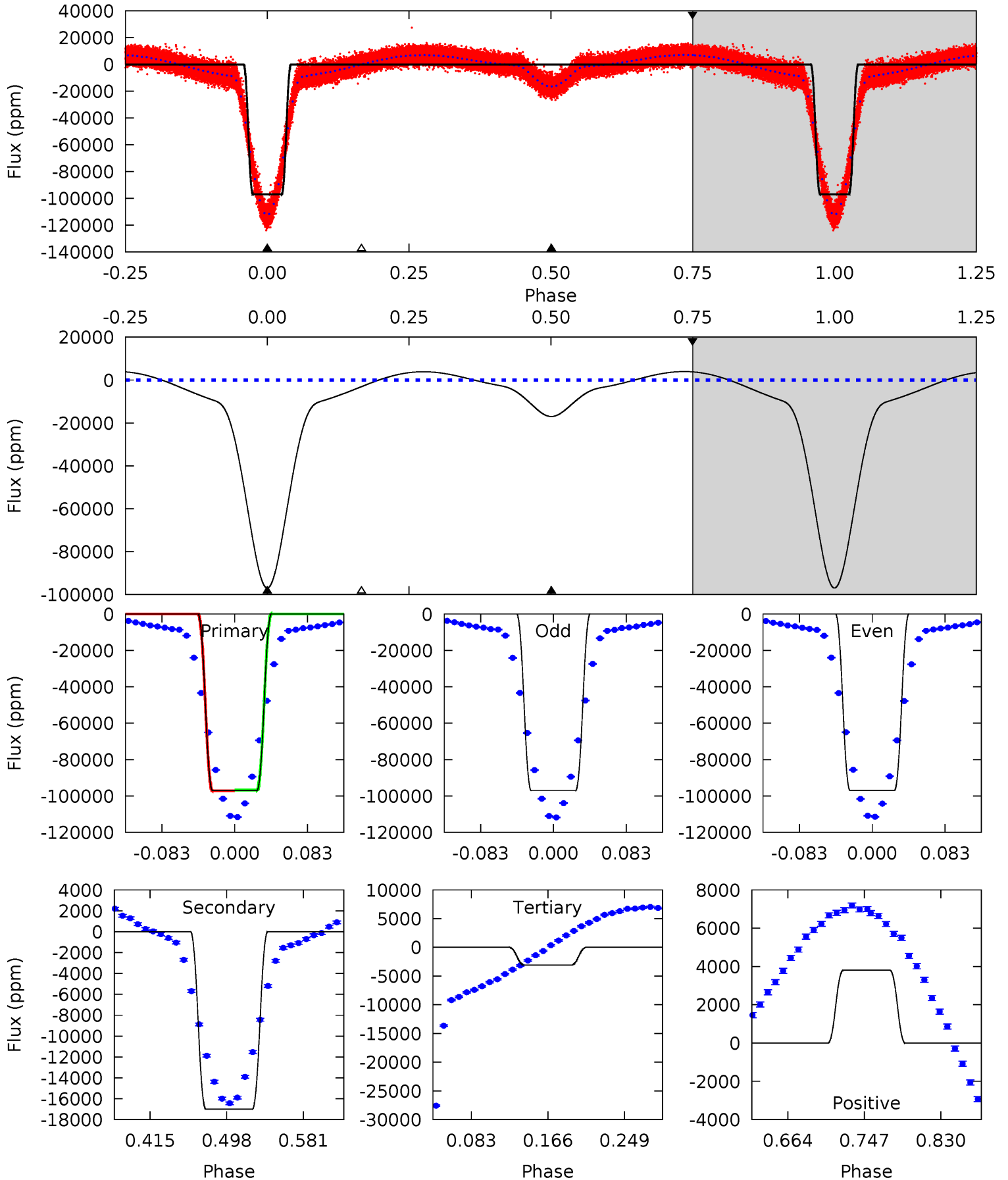
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5391	35.4	-19.8	0	4.52	1.54	16.1	5411	5391	55.2	35.4	1.51	0.99	0.00	4.56



Alt Model-Shift Uniqueness Test

007368103-01, P = 2.182526 Days, E = 130.167997 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1259	220.7	40.3	49.4	4.60	1.73	53.7	1219	1210	180.4	171.3	0.39	1.00	0.04	2.28



Stellar Parameters For KIC 007368103

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8051^{+225}_{-338}	$3.966^{+0.227}_{-0.122}$	$-0.140^{+0.200}_{-0.350}$	$2.347^{+0.409}_{-0.760}$	$1.856^{+0.119}_{-0.380}$	$0.202^{+0.295}_{-0.079}$
	+3%/-4%	+6%/-3%	+143%/-250%	+17%/-32%	+6%/-20%	+146%/-39%
Source	KIC0	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 007368103-01 / KOI 6869.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-733 ± 21	$120.64^{+15.50}_{-20.15}$	3734^{+244}_{-313}	-3389^{+198}_{-146}	$0.045^{+0.018}_{-0.010}$
Alt.	-16988 ± 77	$82.35^{+12.92}_{-13.22}$	3713^{+248}_{-298}	4841^{+191}_{-203}	$2.230^{+0.890}_{-0.515}$

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 $A_{obs} \gg 1.0$

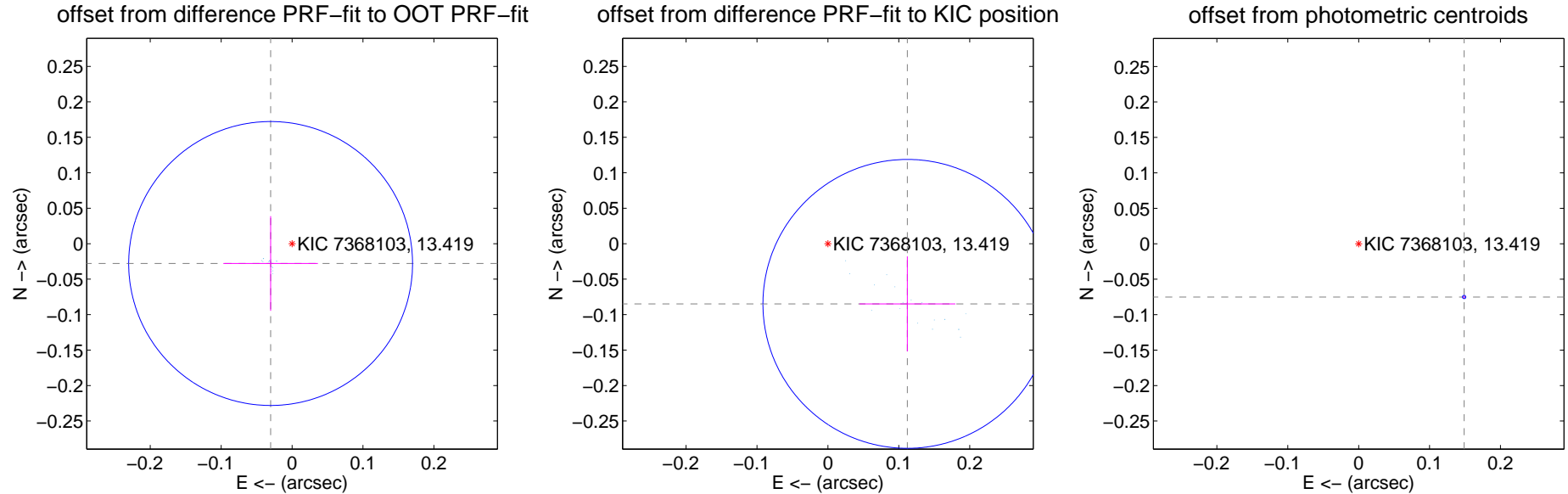
DV Centroid Data

Supplemental centroid analysis for 007368103-01. Kepler magnitude: 13.42. Transit SNR 3005.73

There are 17 quarters with good PRF difference image offsets

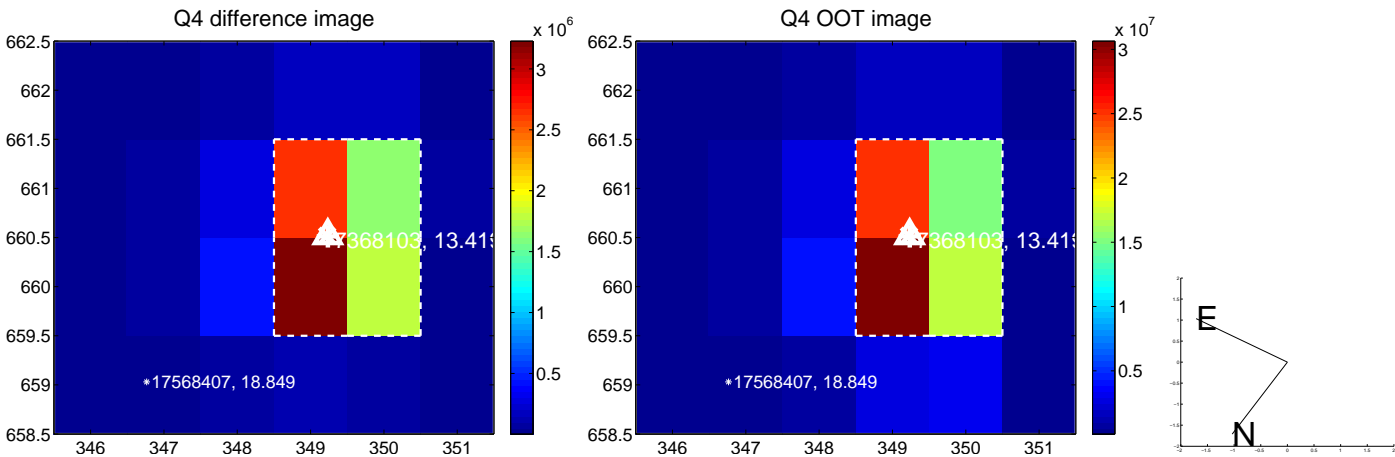
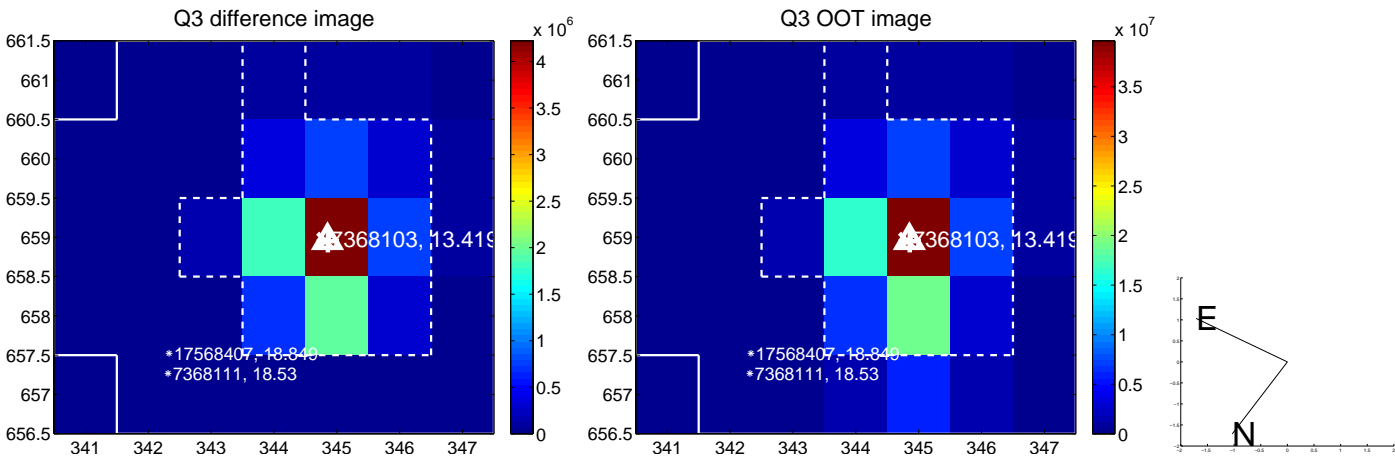
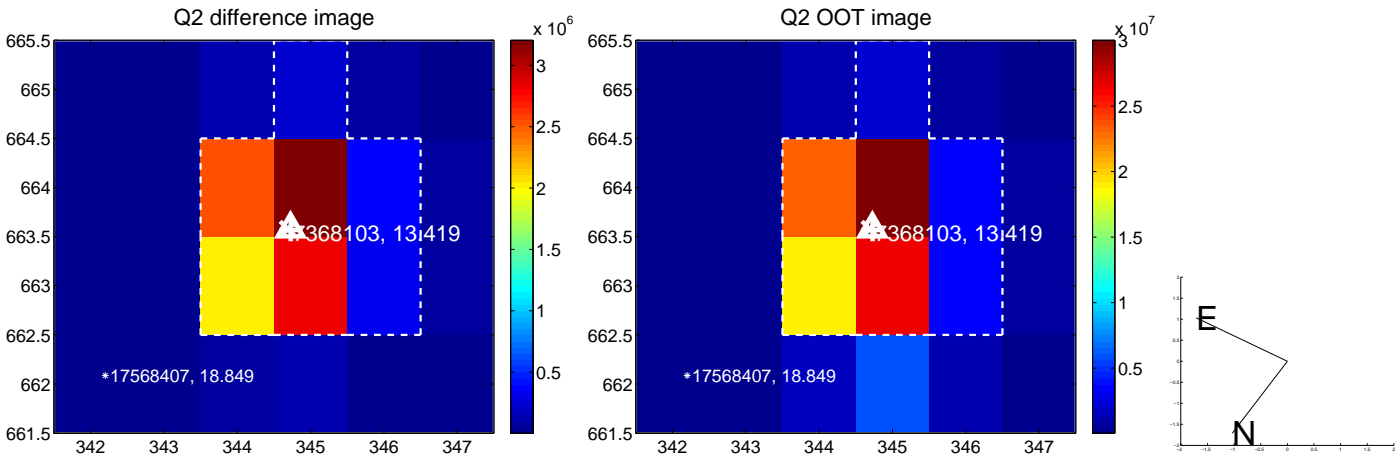
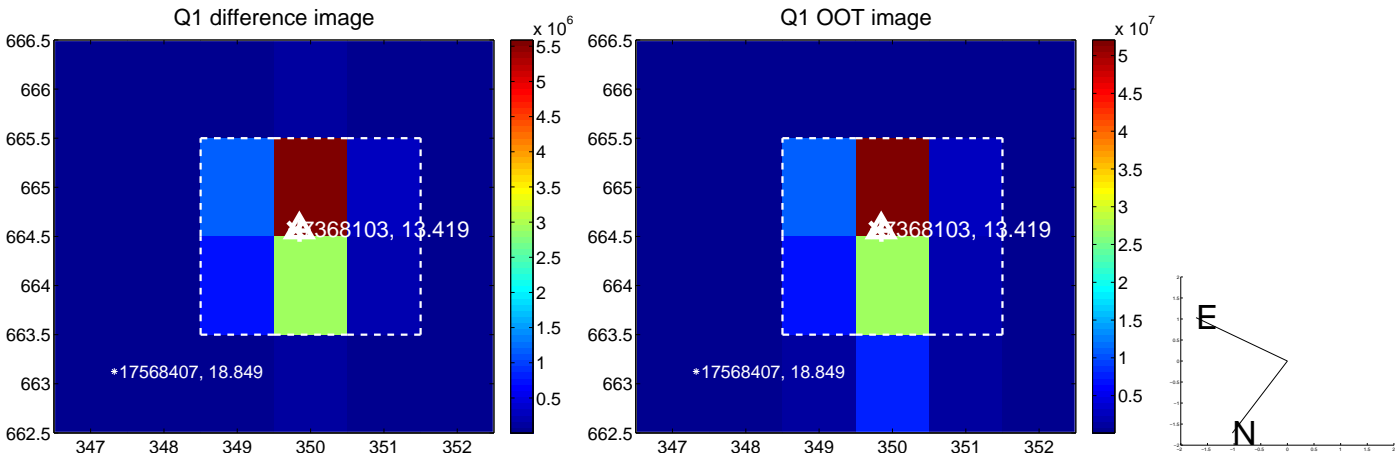
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.041 ± 0.067	0.62	0.030 ± 0.067	-0.028 ± 0.067
PRF-fit source offset from KIC position	0.141 ± 0.068	2.07	-0.112 ± 0.068	-0.085 ± 0.067
photometric centroid source offset	0.17 ± 0.00	216.14	-0.15 ± 0.00	-0.08 ± 0.00

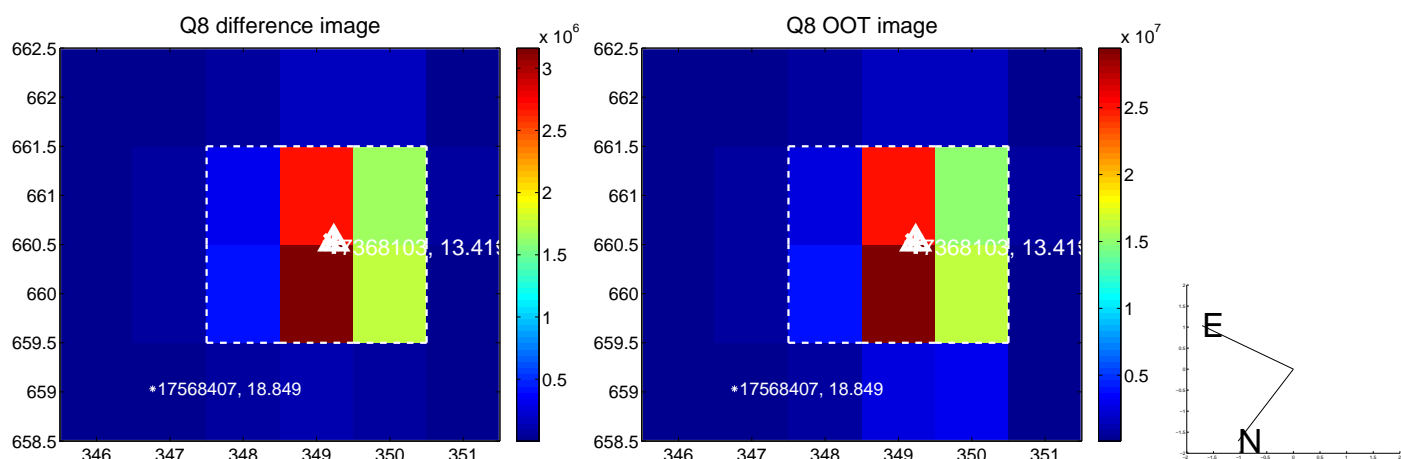
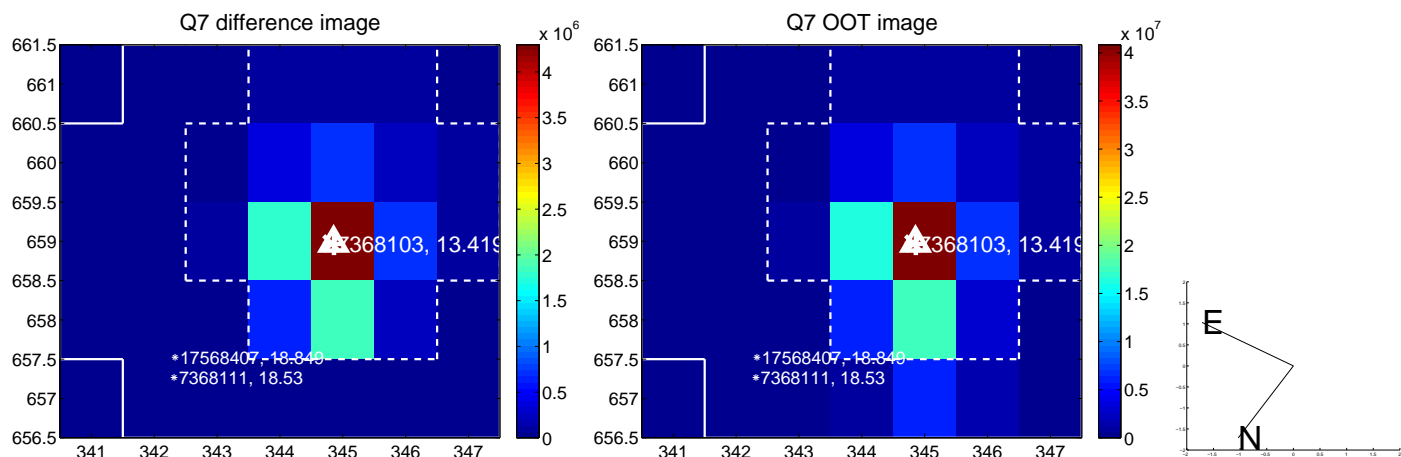
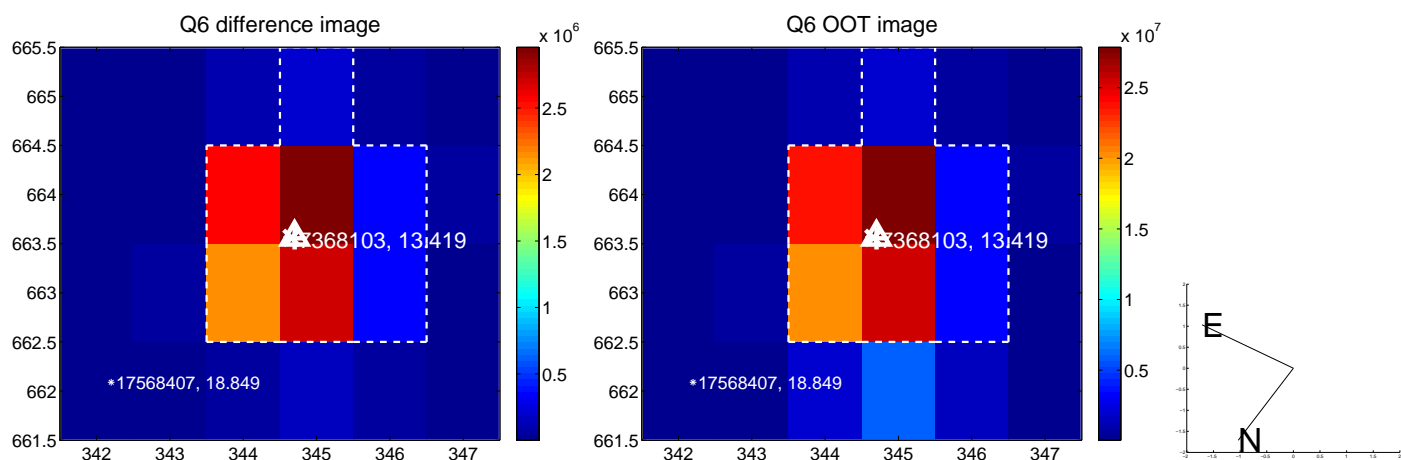
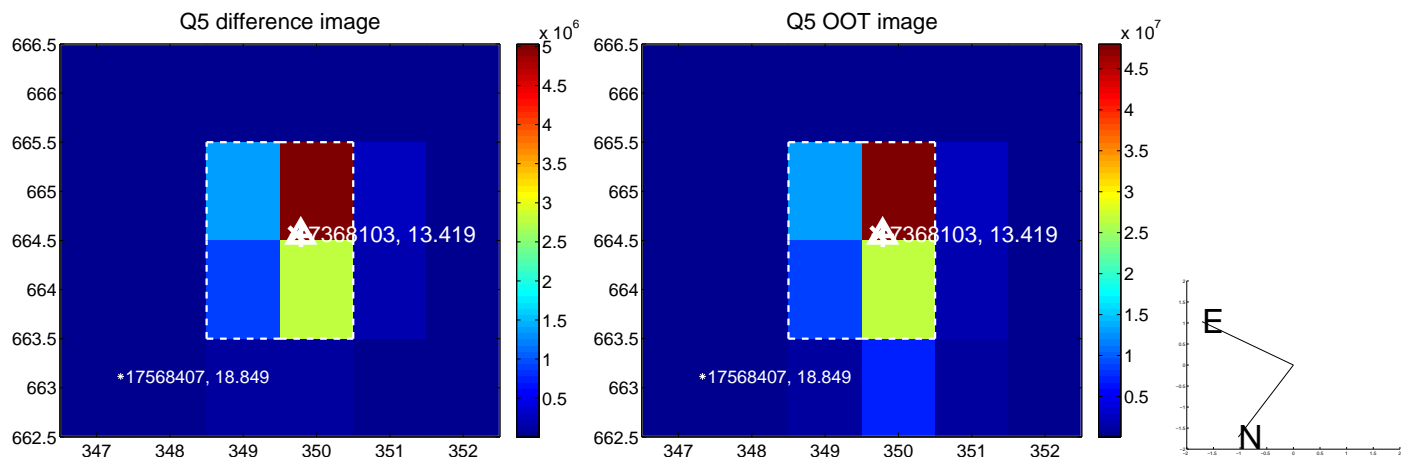


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

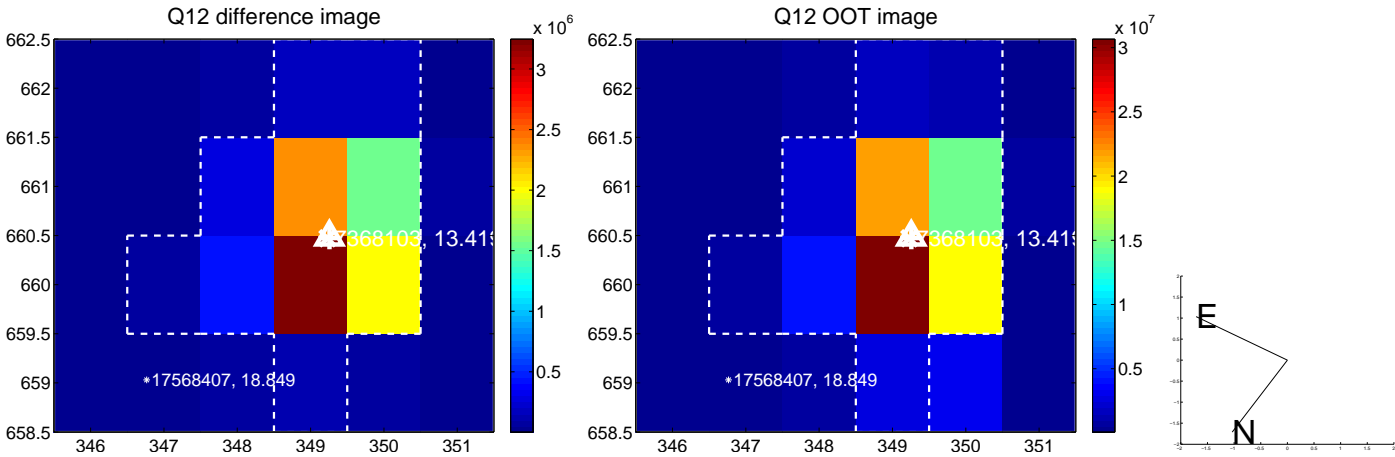
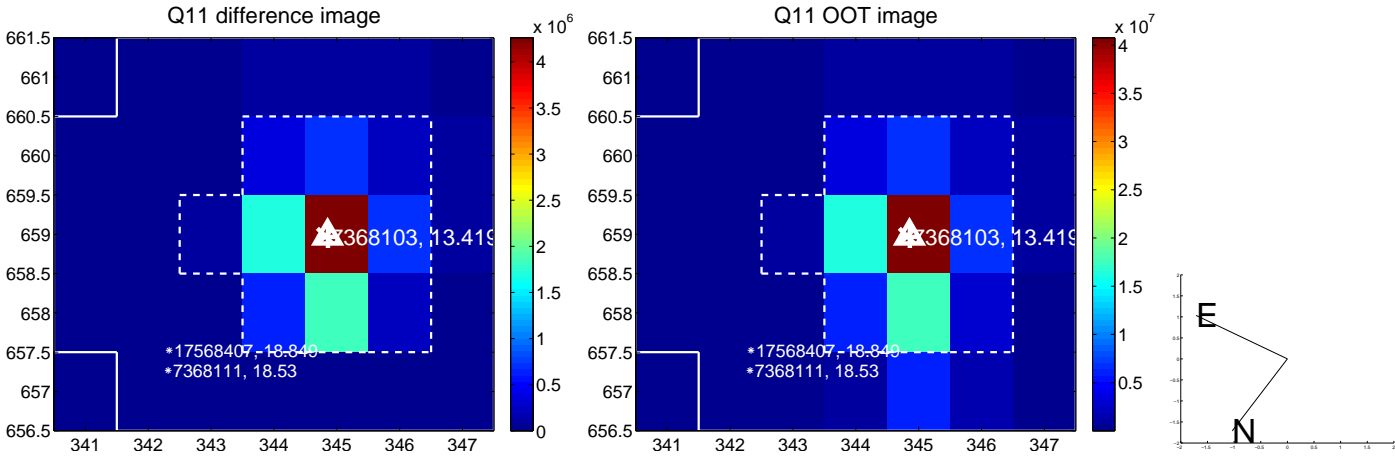
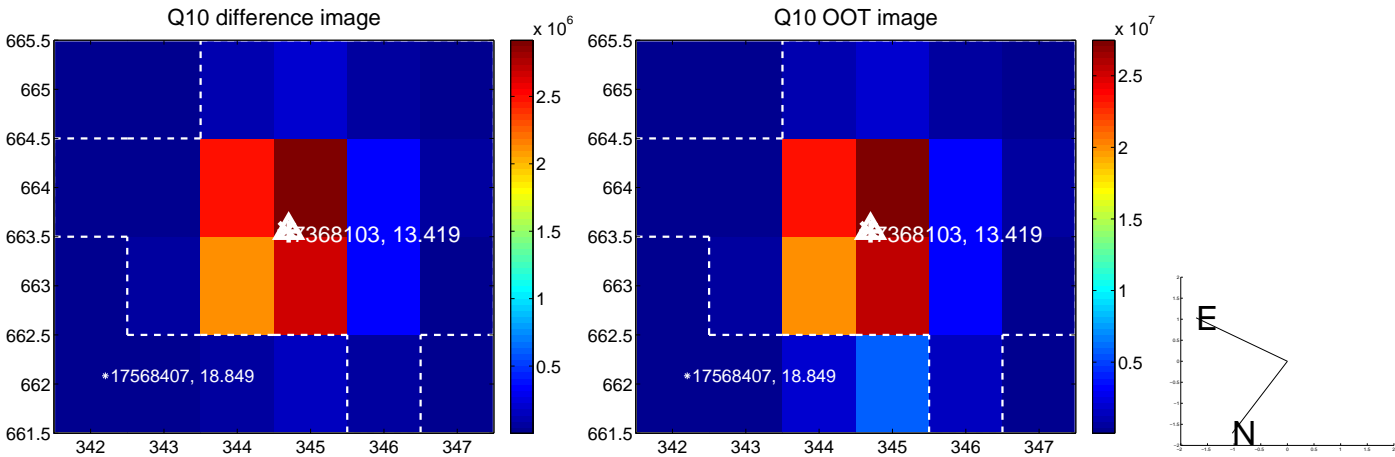
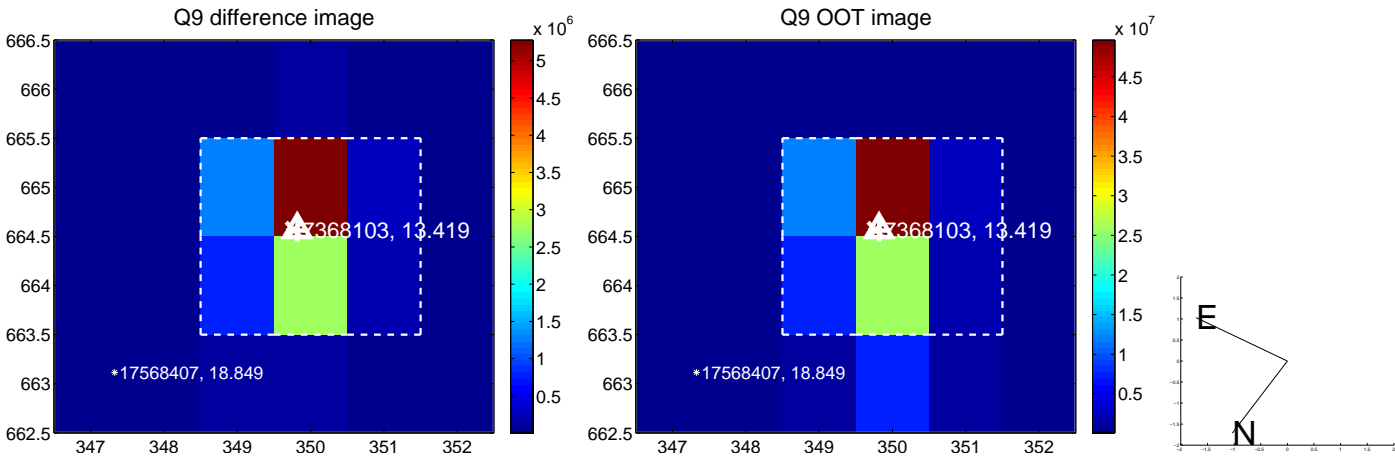
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



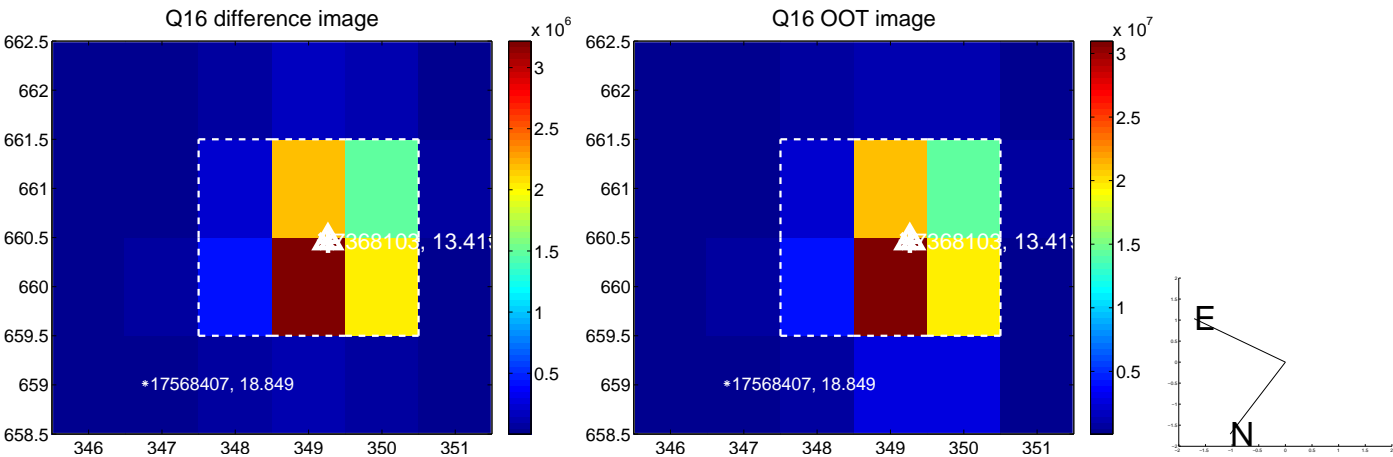
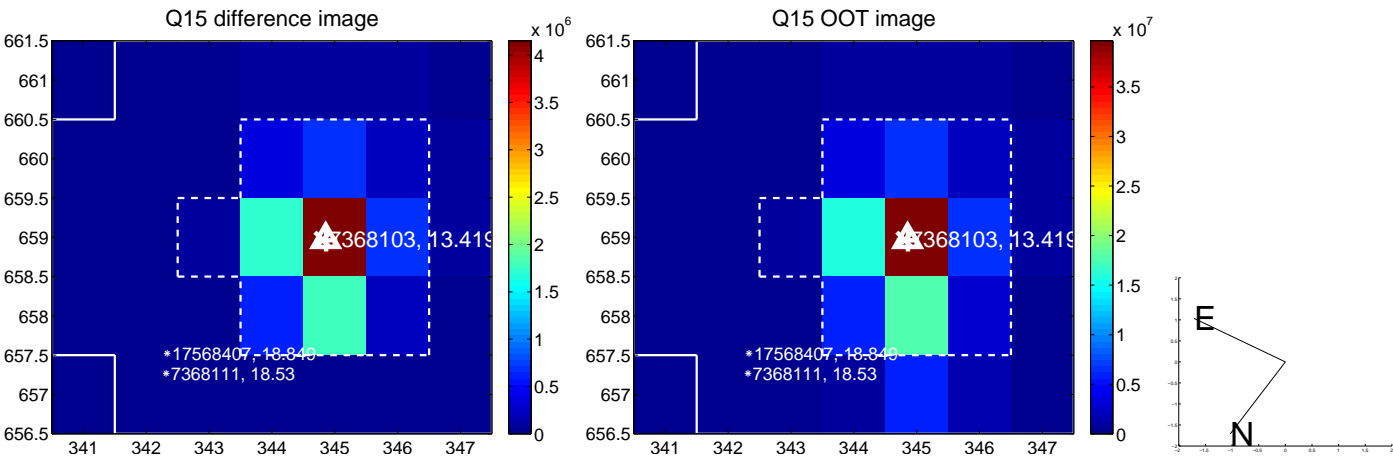
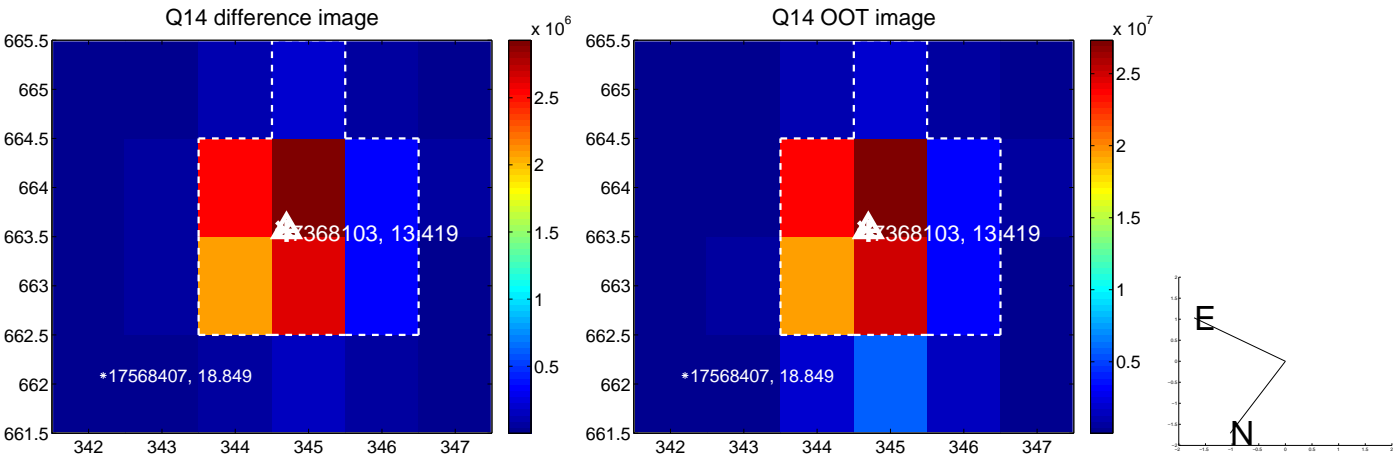
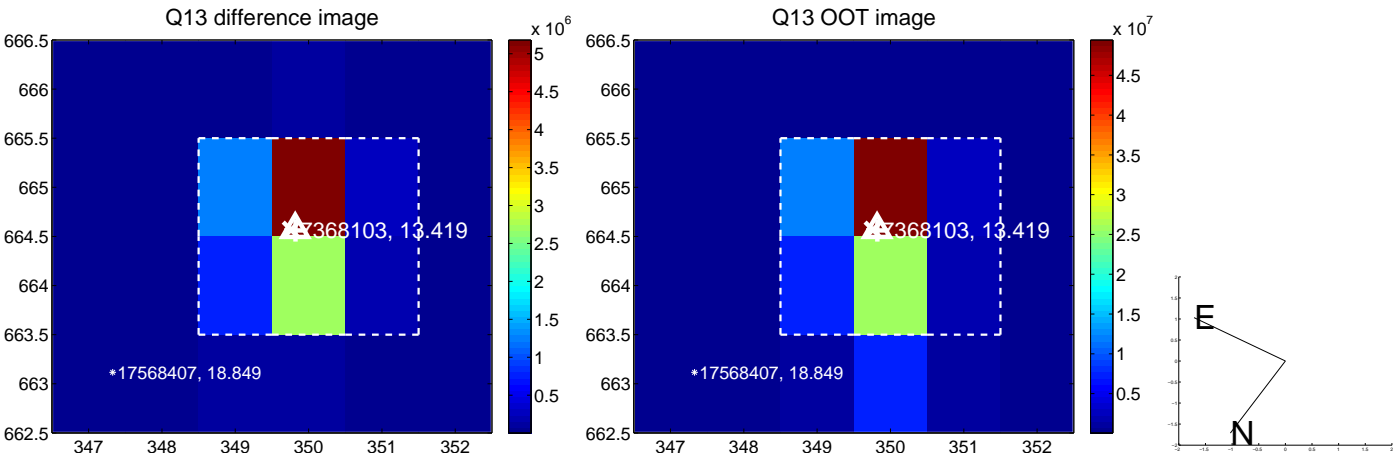
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



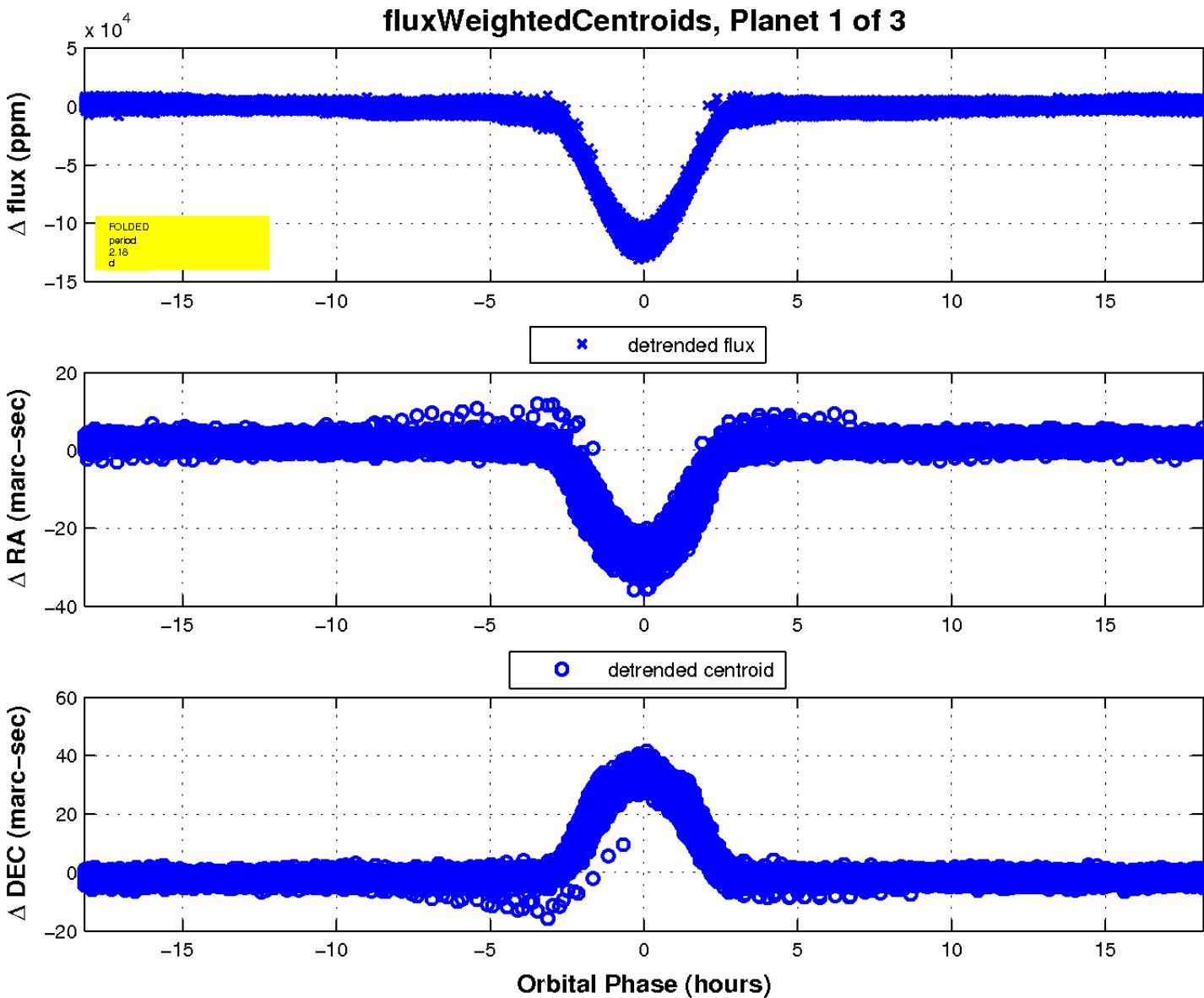
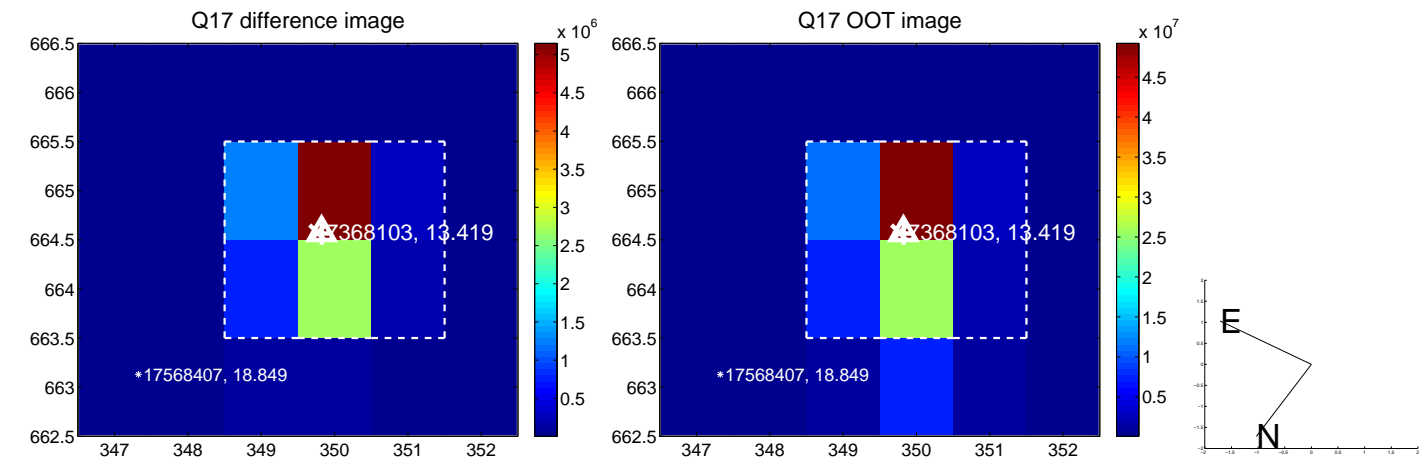
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

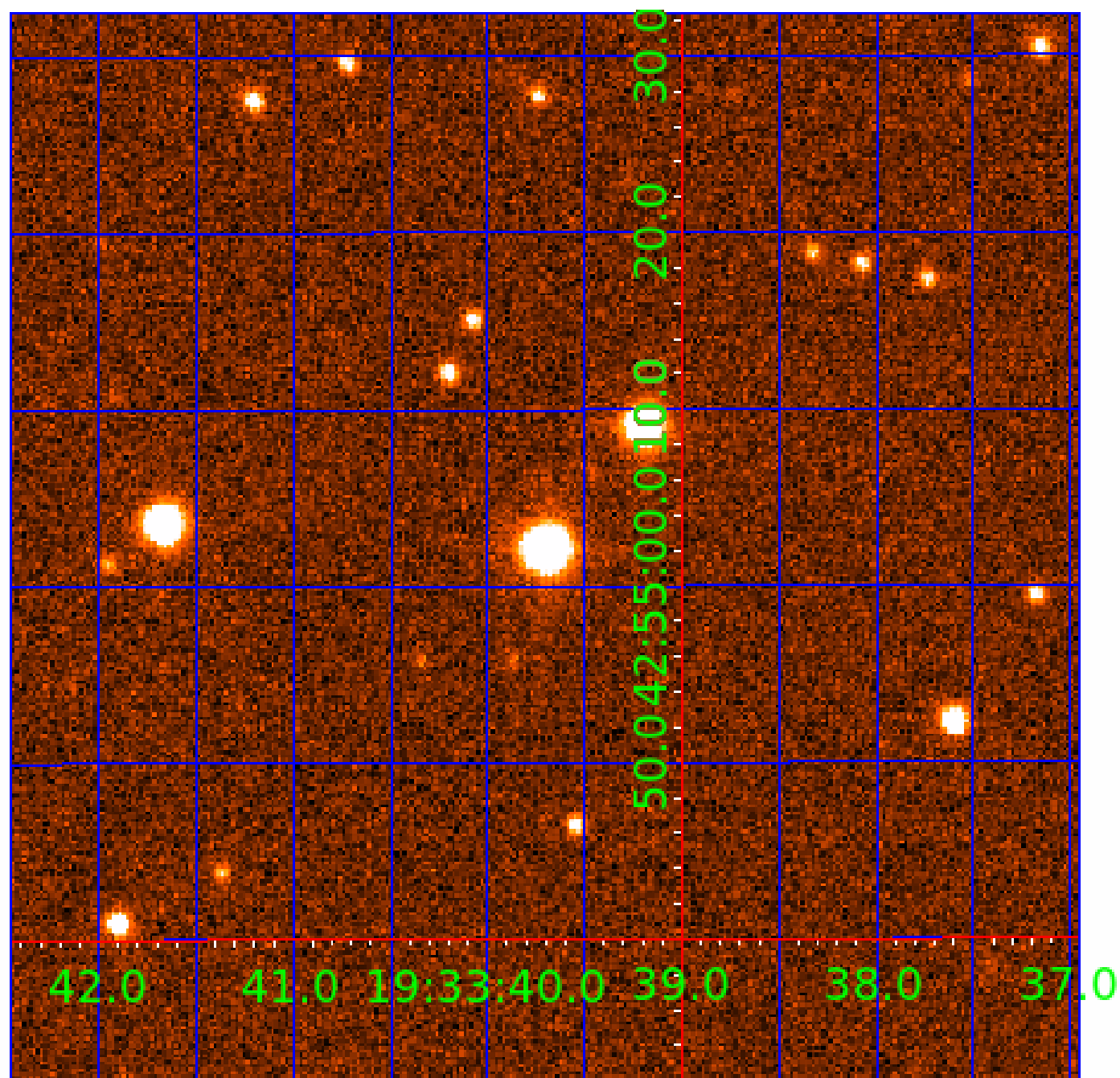


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007368103

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})
007368103-01	OBS	6869.01	2.182516	132.353550	108988.7	6.063	4048.7	3005.7	2.35	8051	122.73	12648.12
007368103-02	OBS	No	1.091245	132.352452	348.0	4.006	26.8	15.7	2.35	8051	5.06	31871.75
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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007368103-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007368103-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

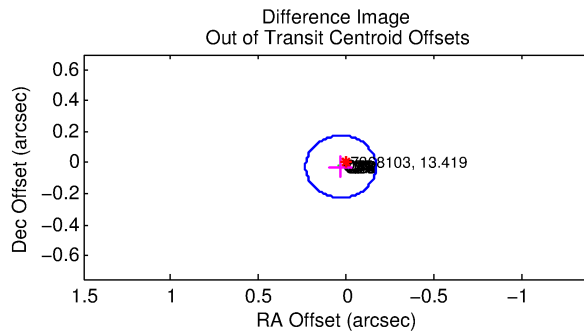
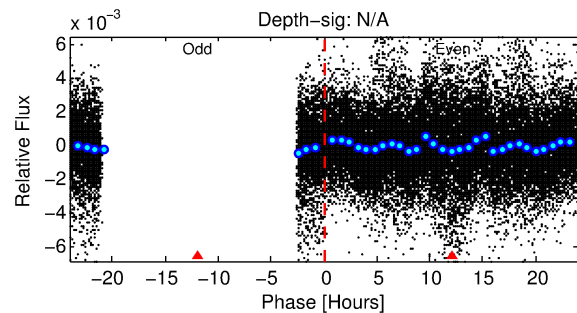
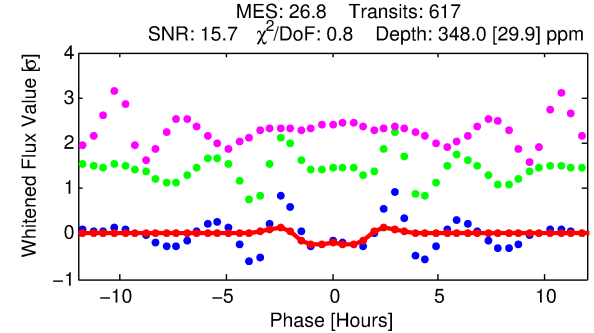
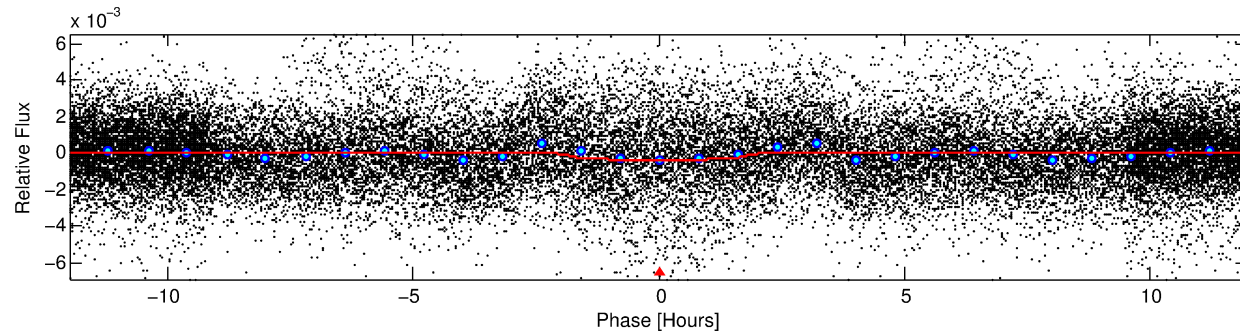
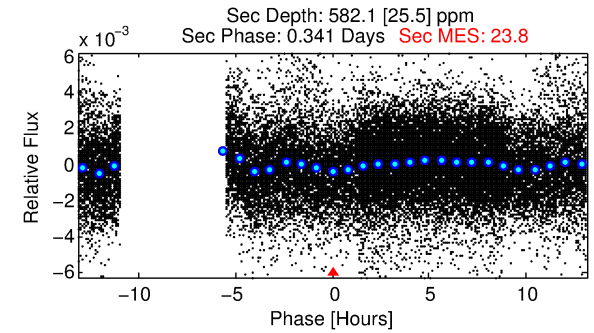
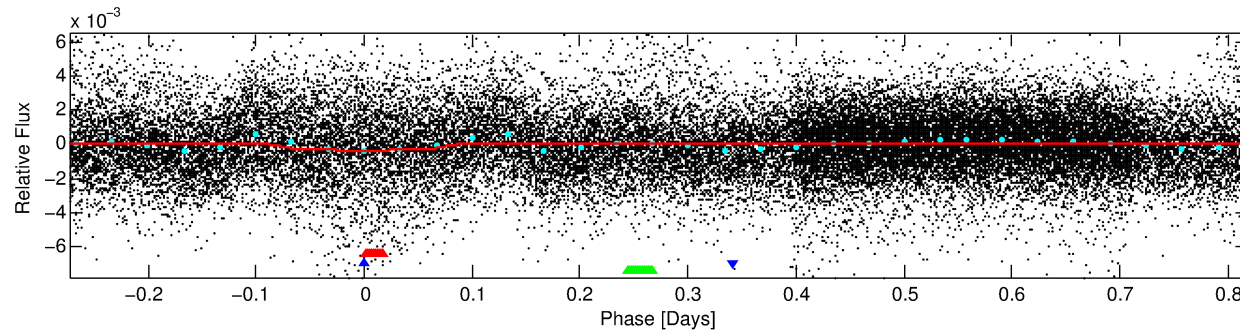
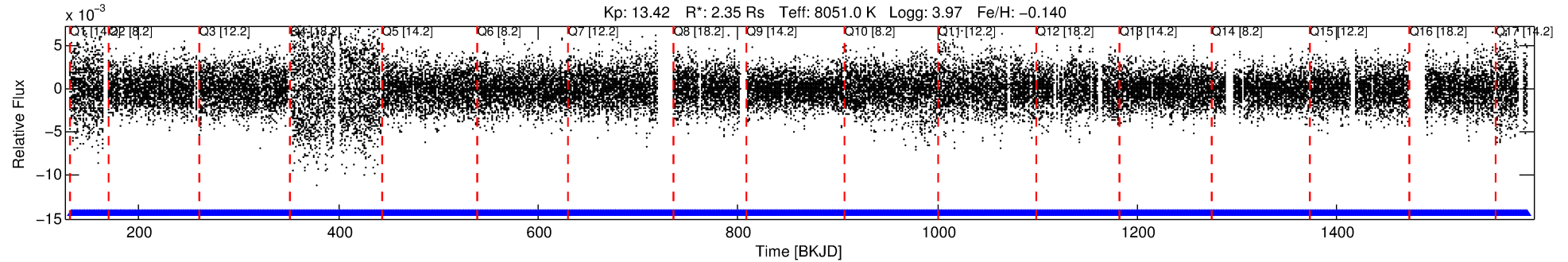
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007368103-02

No Significant Match Found

DV One-Page Summary

KIC: 7368103 Candidate: 2 of 3 Period: 1.091 d
KOI: K06869 Corr: No Ephemeris Match



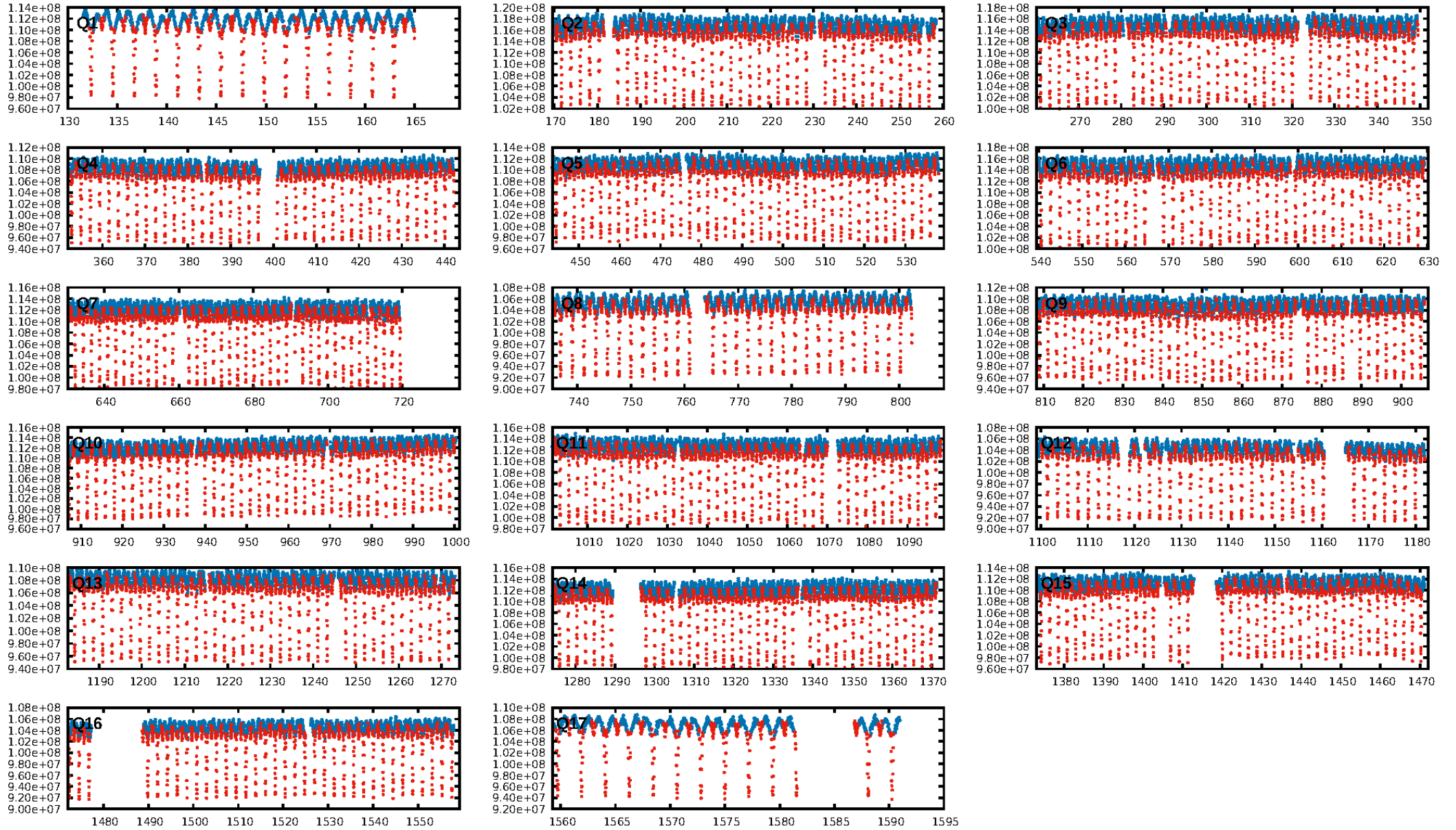
DV Fit Results:

Period = 1.09125 [0.00001] d
Epoch = 132.3525 [0.0022] BKJD
Rp/R* = 0.0198 [0.0035]
a/R* = 1.40 [0.68]
b = 0.89 [0.24]
Seff = 31871.75 [14118.38]
Teq = 3407 [377] K
Rp = 5.06 [1.87] Re
a = 0.0255 [0.0071] AU
Ag = 8.13 [4.43] [1.61σ]
Teffp = 8895 [881] K [5.73σ]

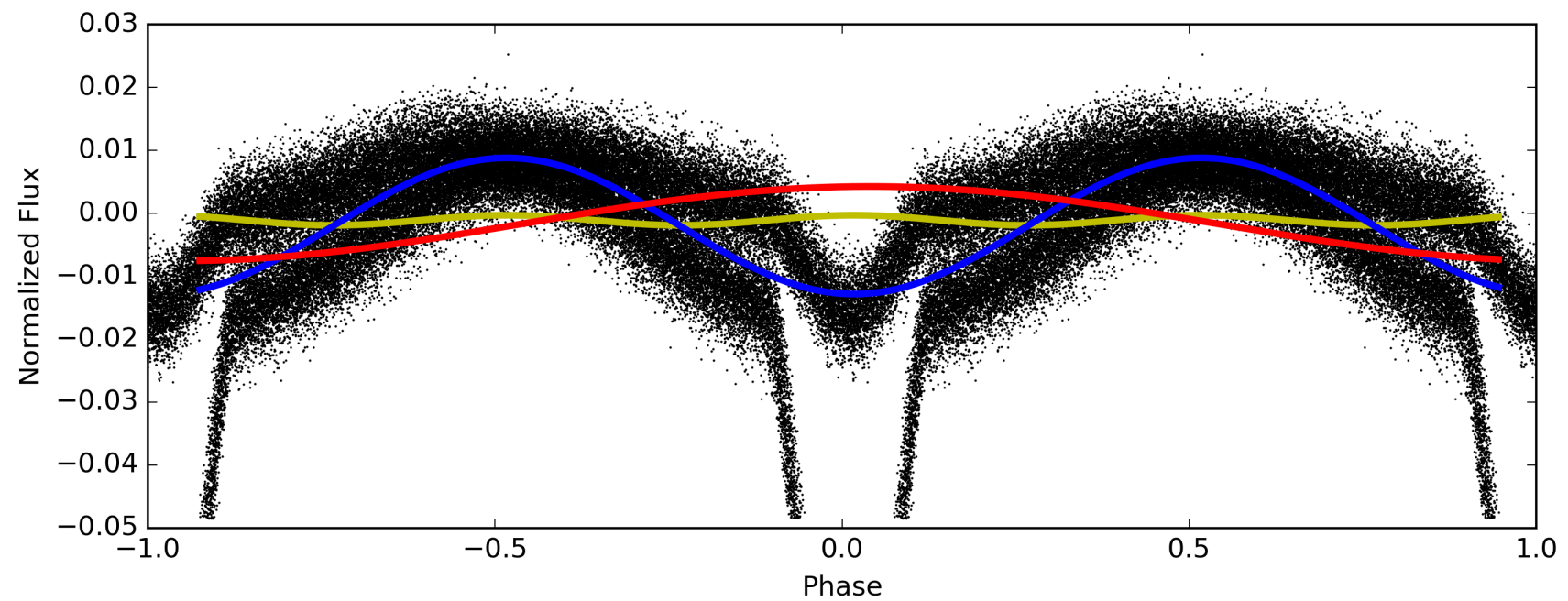
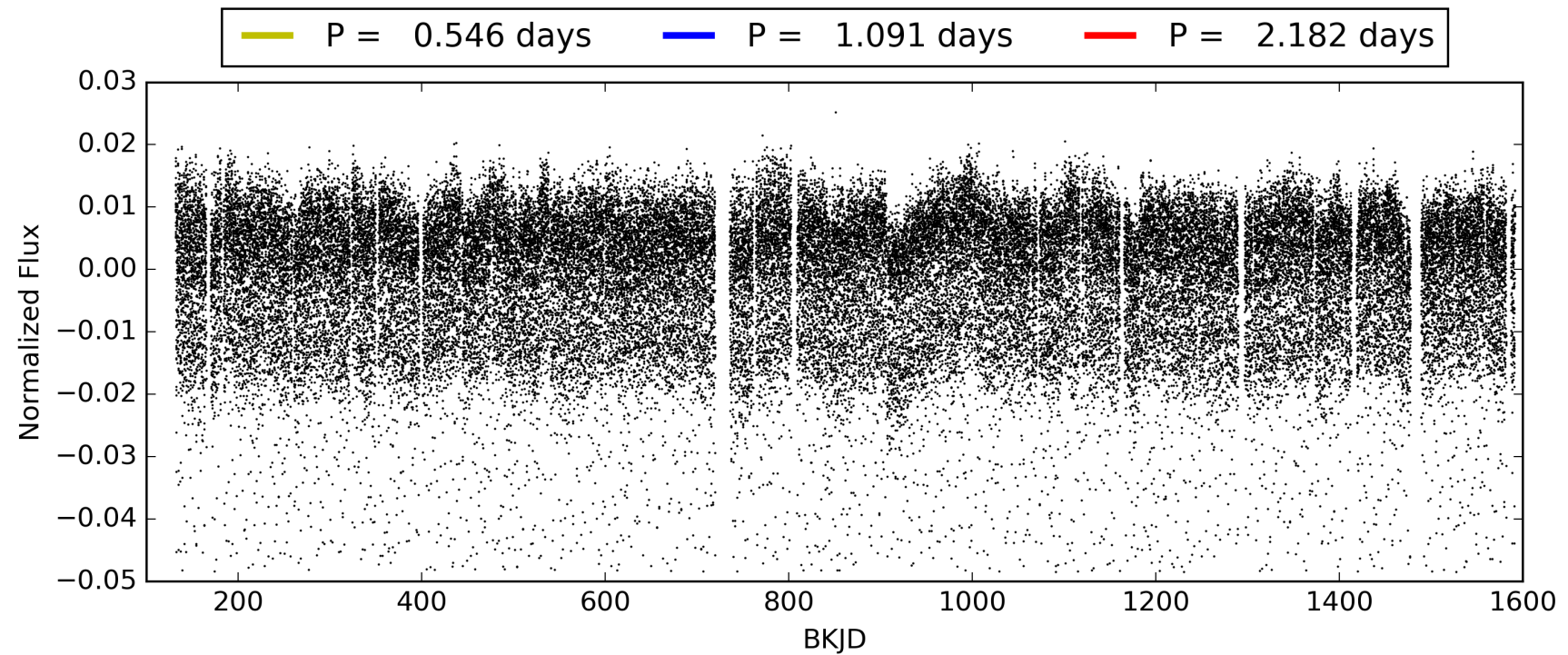
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [5.23σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [590/590]
GhostDiagnostic-chr: 5.698
Centroid-sig: N/A
Centroid-so: 0.380 arcsec [2.75σ]
OotOffset-rm: 0.042 arcsec [0.63σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.136 arcsec [2.00σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007368103-02, PDC Light Curves

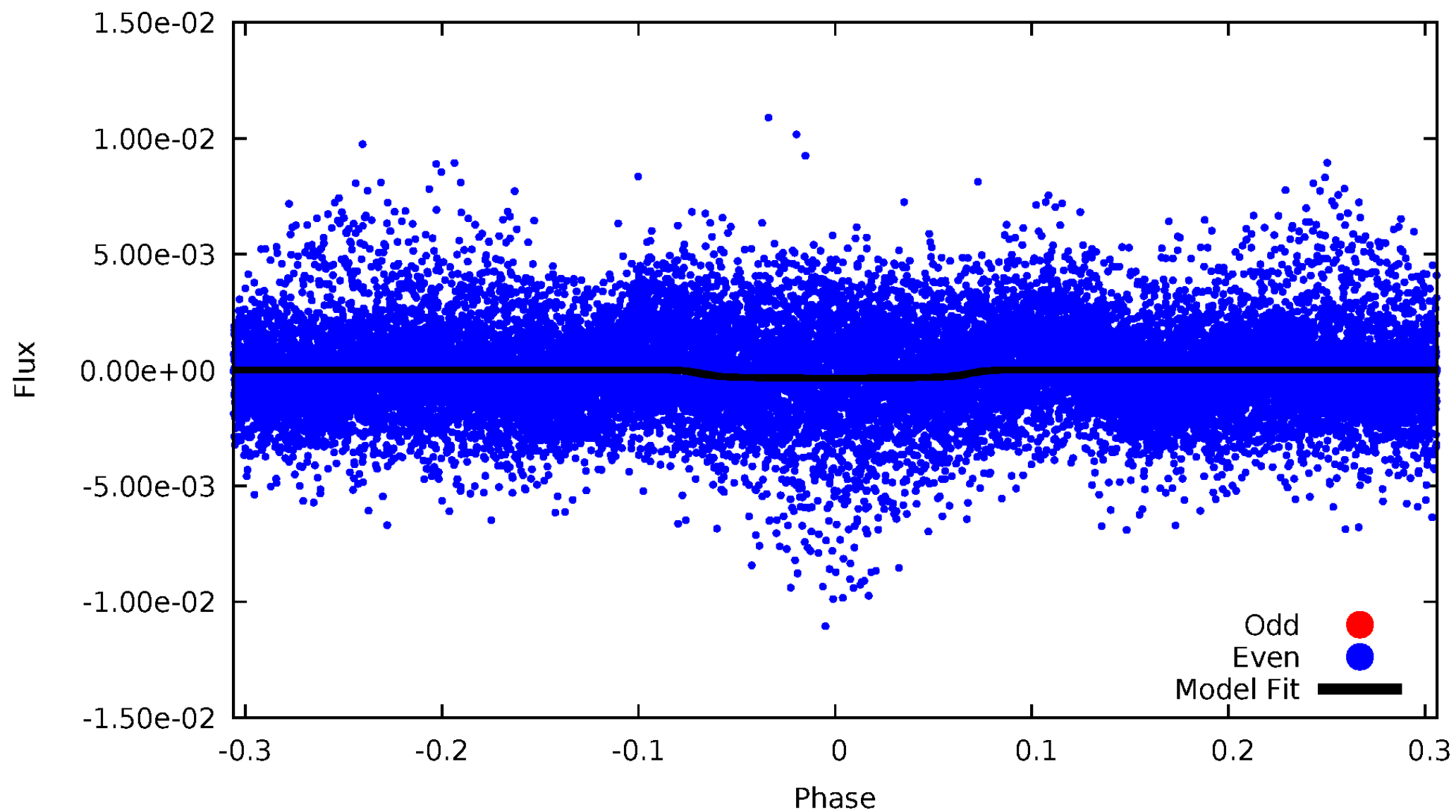


TCE 007368103-02



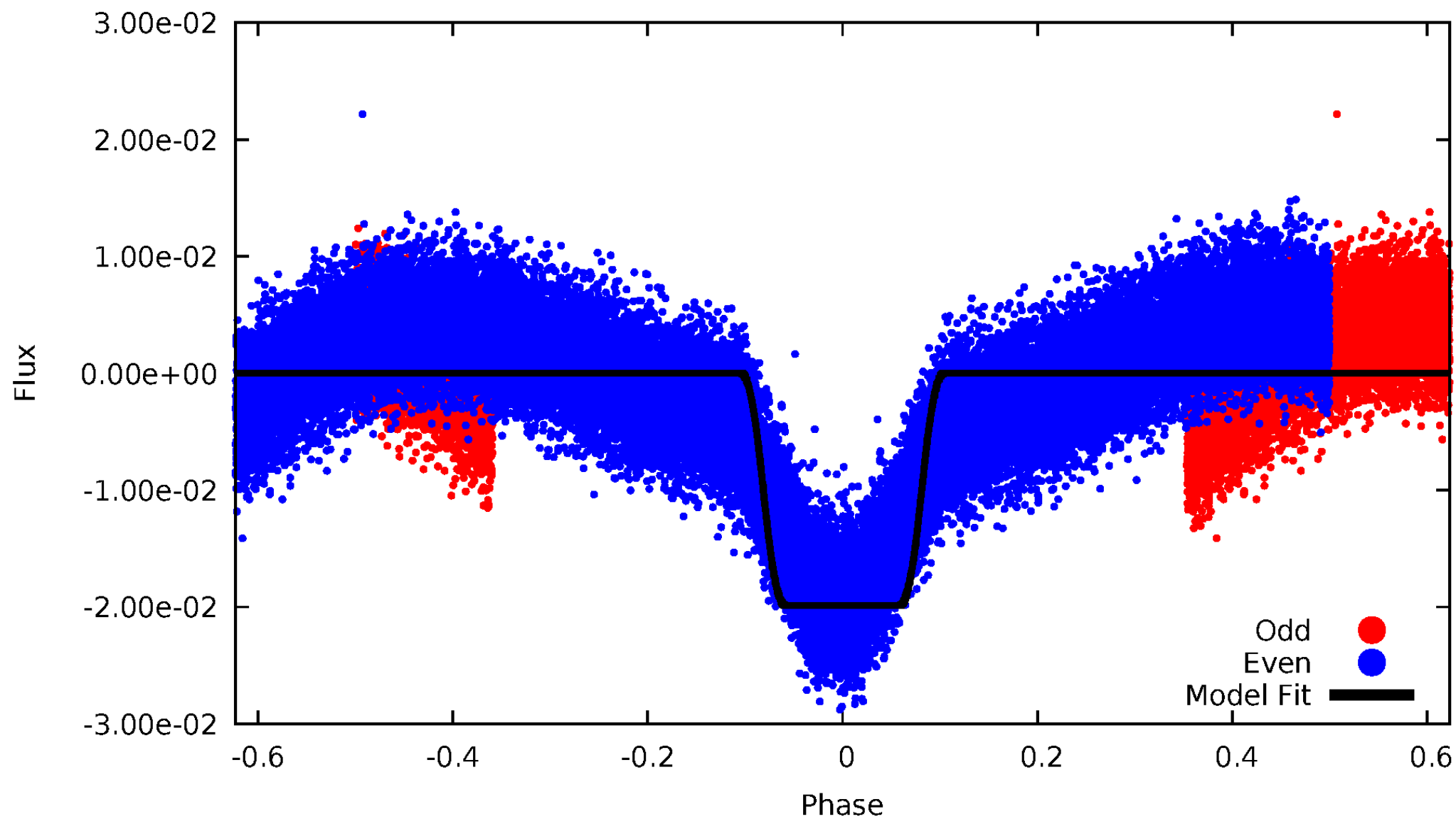
DV Odd/Even

TCE 007368103-02



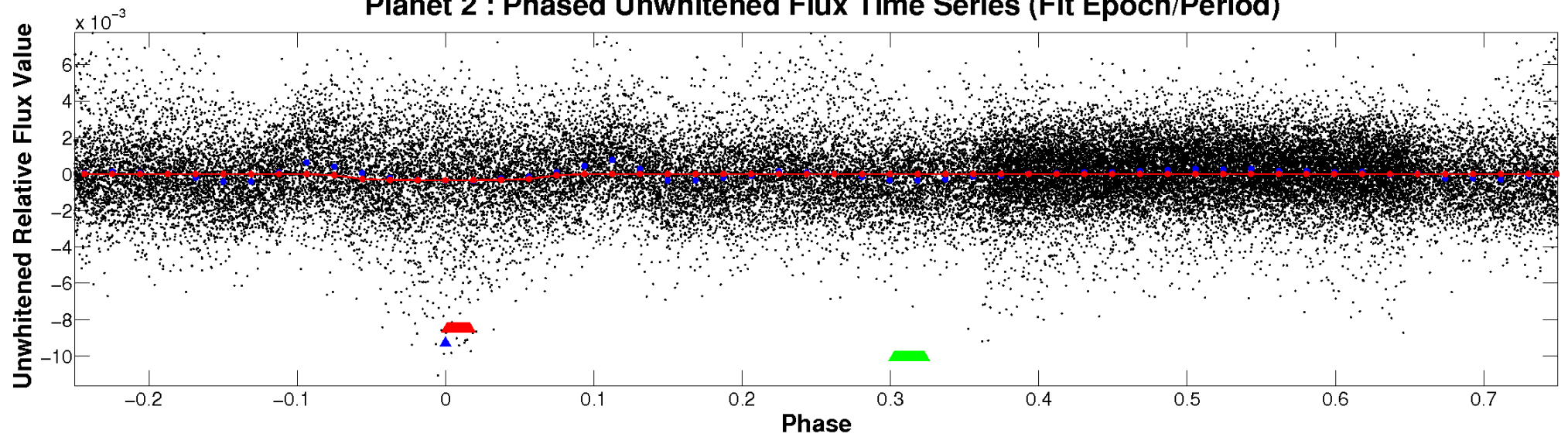
ALT Odd/Even

TCE 007368103-02

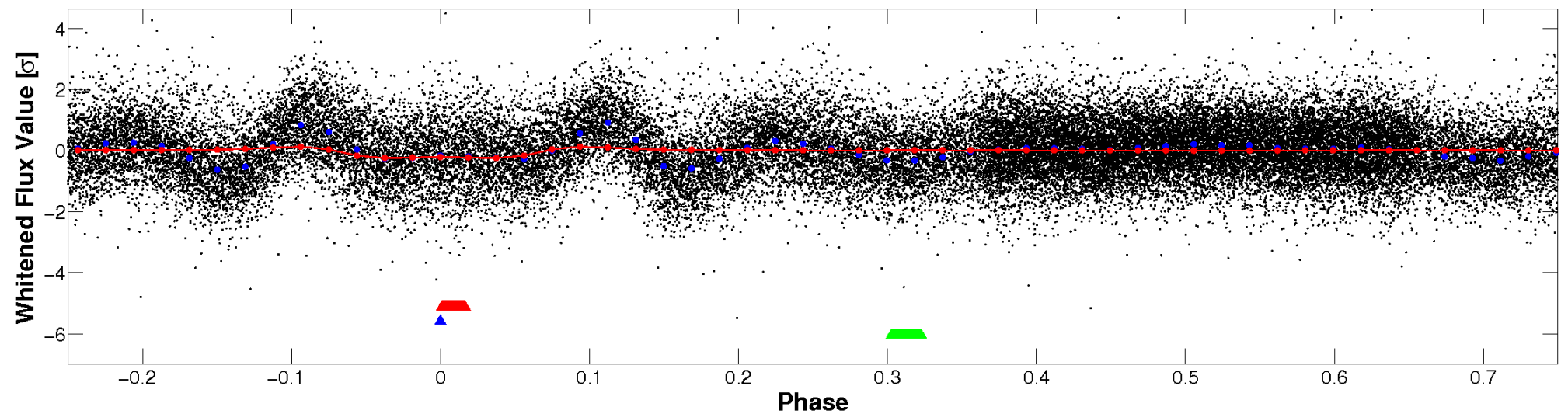


Non-Whitened Vs. Whitened Light Curve

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

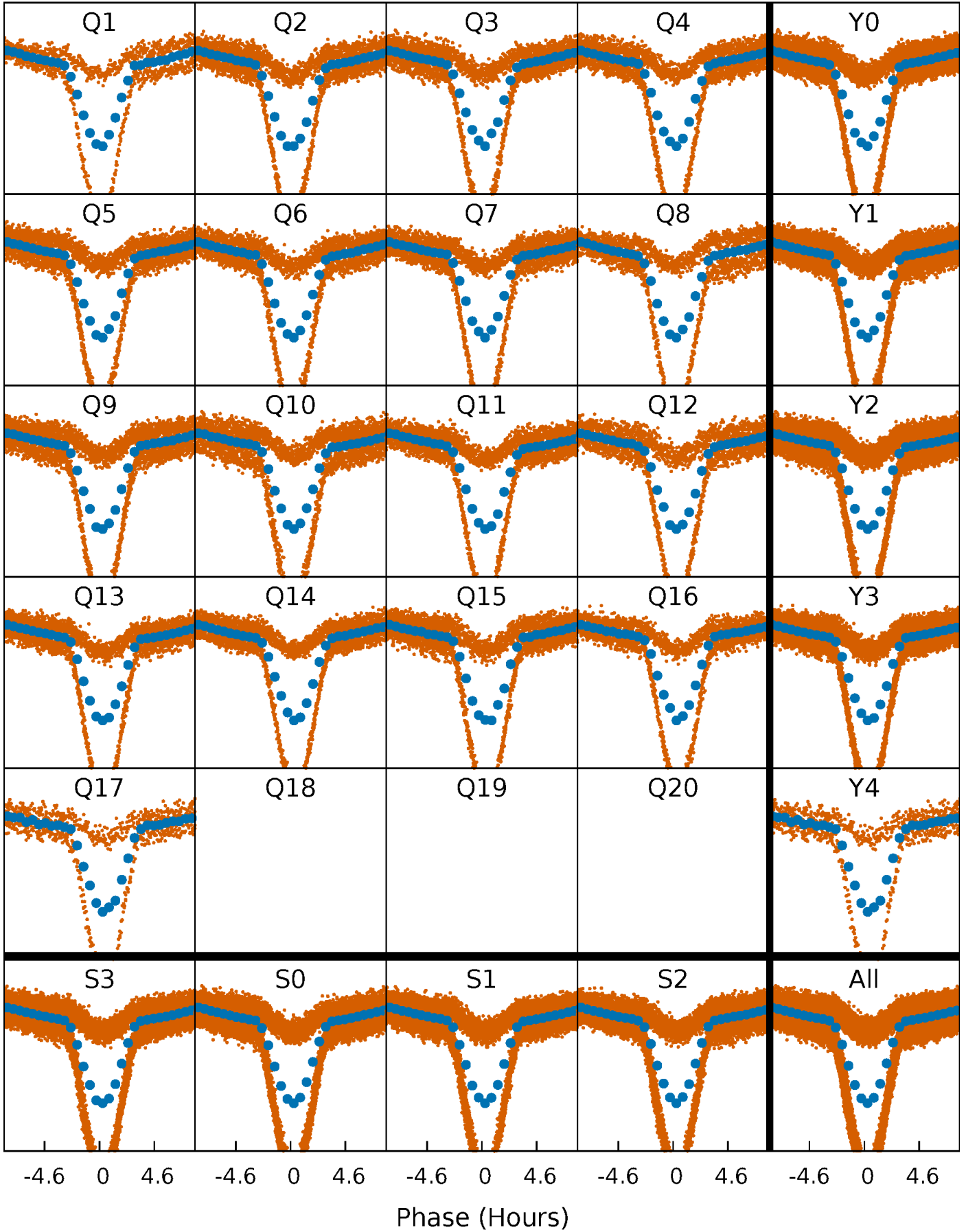


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



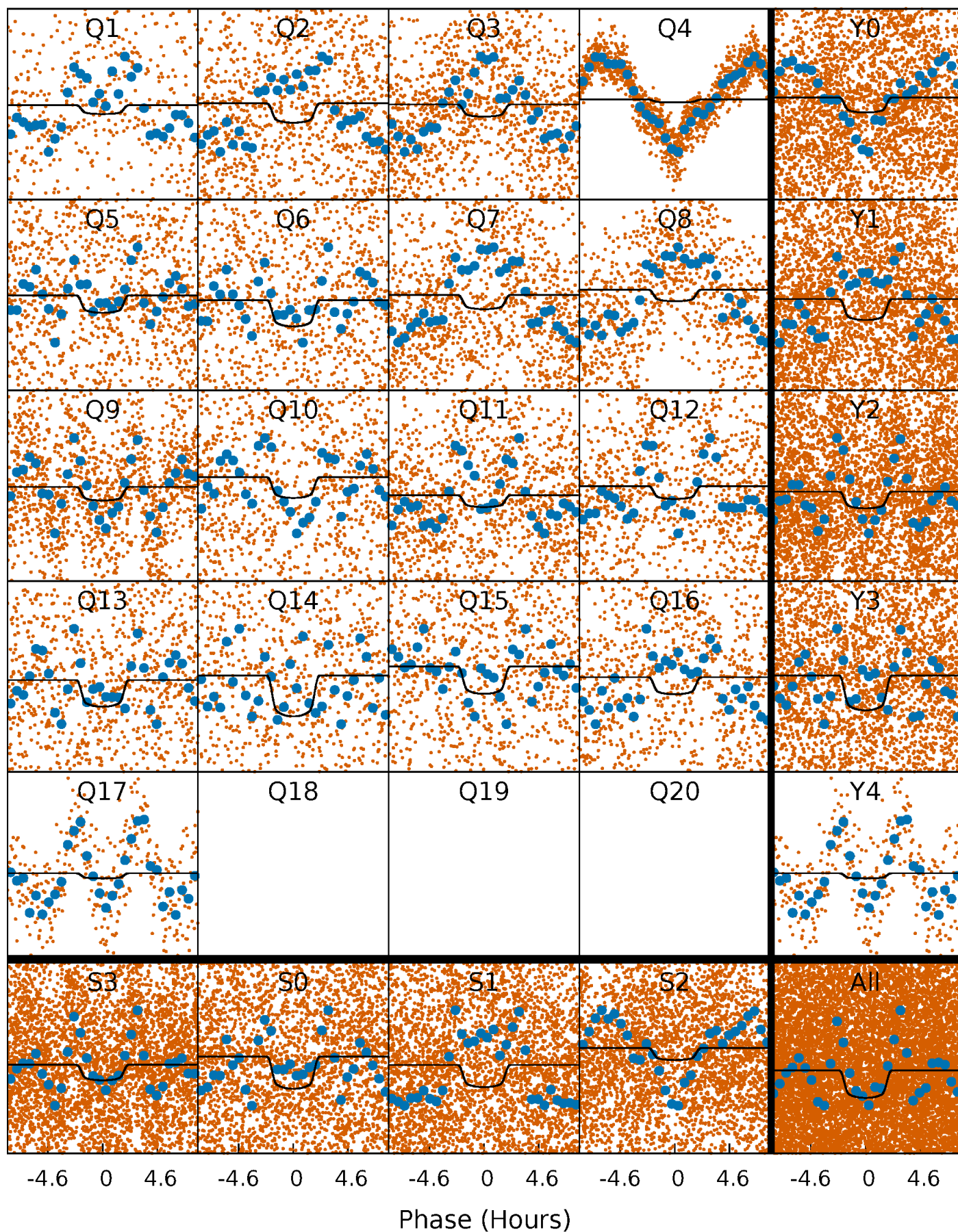
PDC Quarter-Phased Transit Curves

TCE 007368103-02 P= 1.091245 Days $T_0=132.352452$ (BKJD)



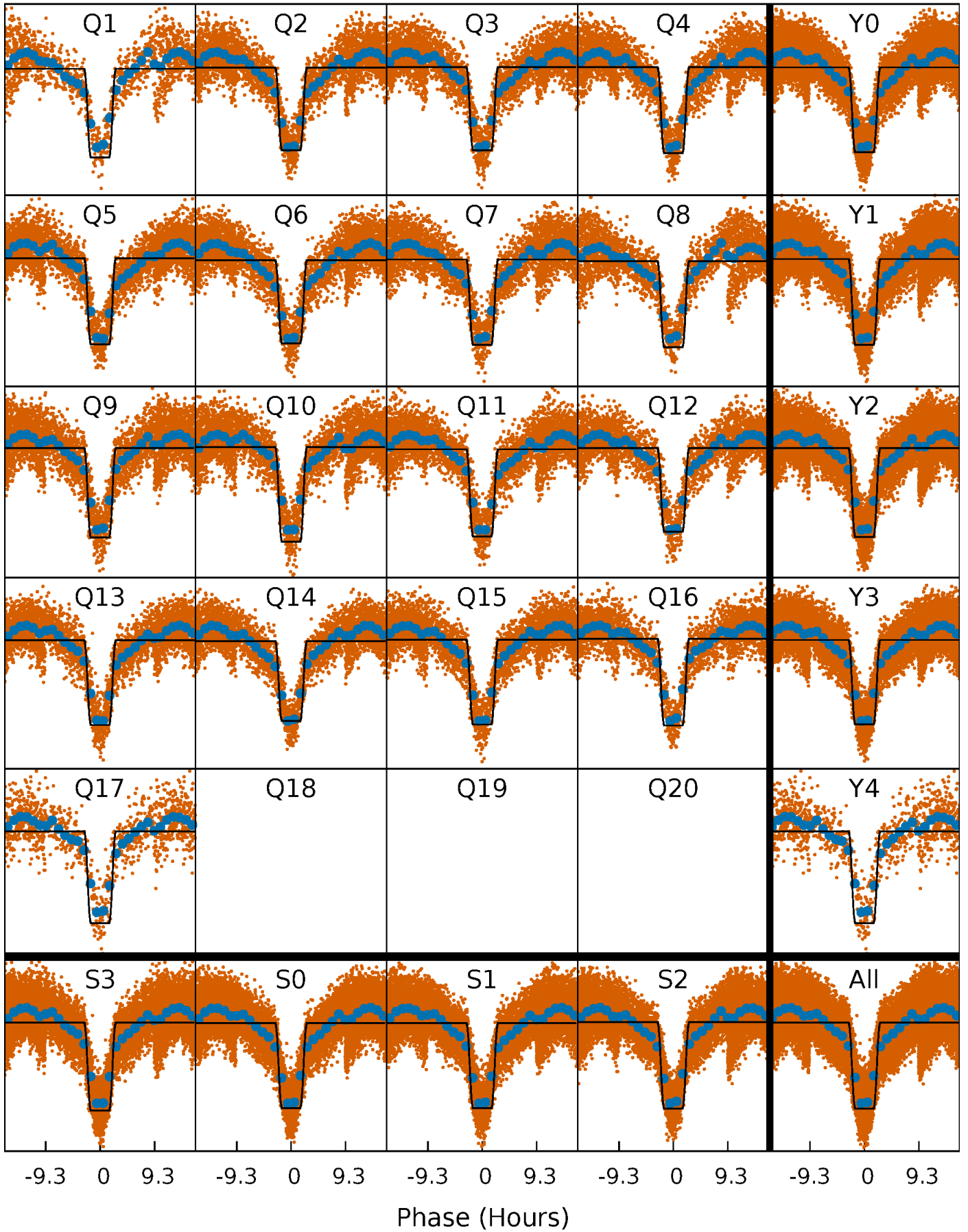
DV Quarter-Phased Transit Curves

TCE 007368103-02 P= 1.091245 Days $T_0=132.352452$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

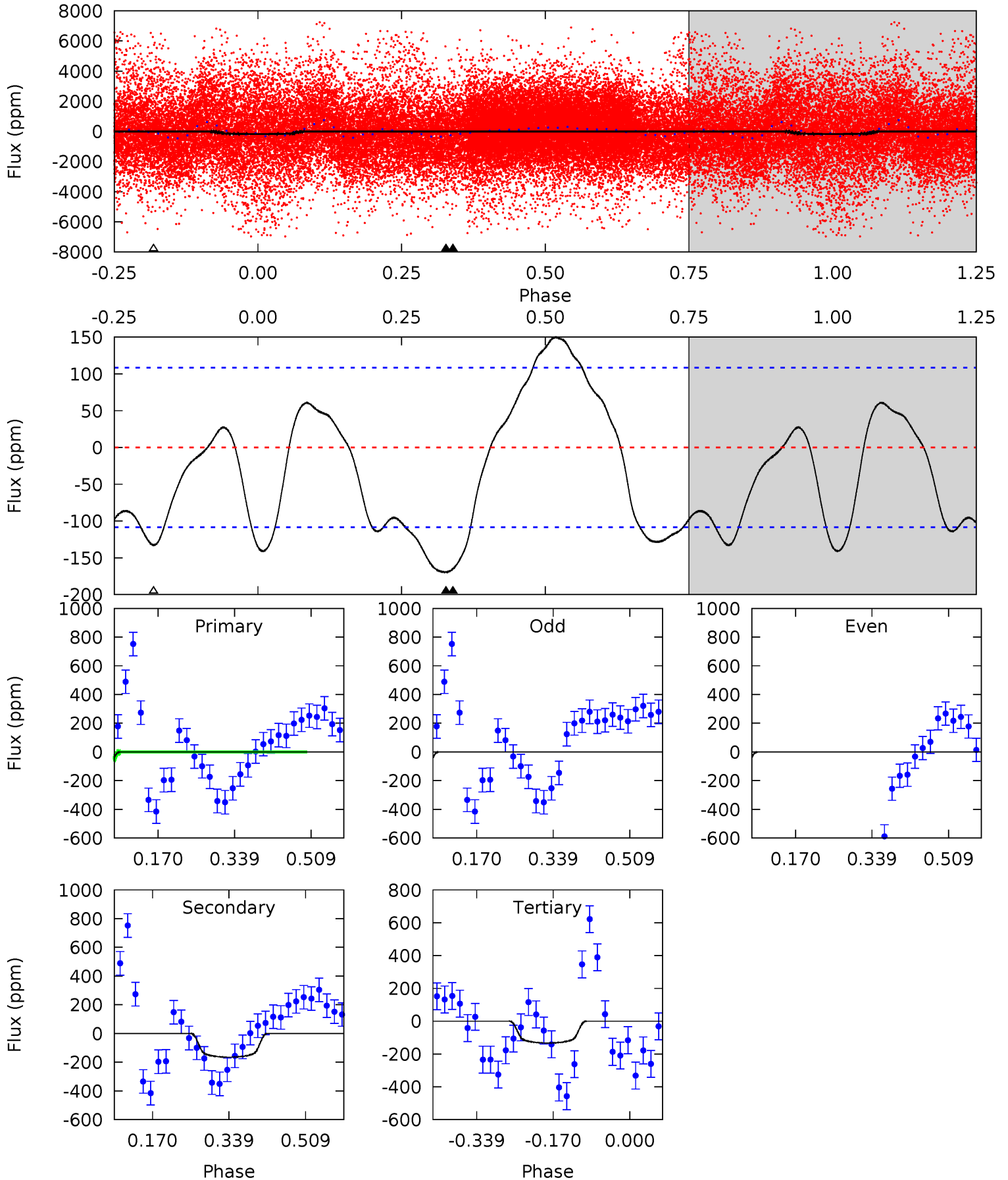
TCE 007368103-02 P= 1.091256 Days $T_0=132.357395$ (BKJD)



DV Model-Shift Uniqueness Test

007368103-02, P = 1.091245 Days, E = 131.261207 Days

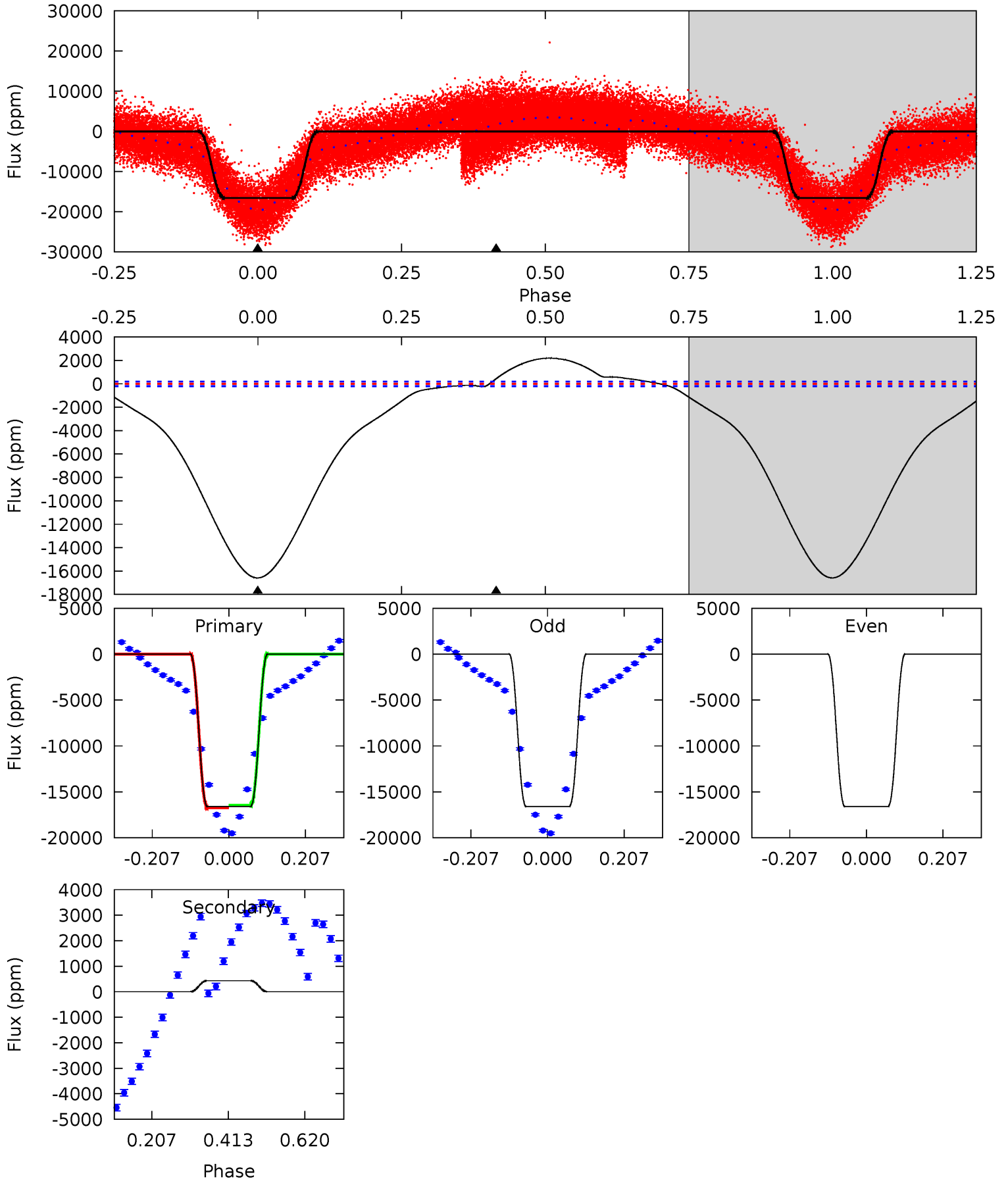
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.97	6.78	5.45	0	4.45	1.37	3.68	1.51	6.97	1.33	6.78	0	5.66	0.47	2.16



Alt Model-Shift Uniqueness Test

007368103-02, P = 1.091256 Days, E = 131.266139 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
361.4	-9.42	0	0	4.41	1.26	20.5	361.4	361.4	-9.42	-9.42	0	0.99	0.12	3.64



Stellar Parameters For KIC 007368103

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8051^{+225}_{-338}	$3.966^{+0.227}_{-0.122}$	$-0.140^{+0.200}_{-0.350}$	$2.347^{+0.409}_{-0.760}$	$1.856^{+0.119}_{-0.380}$	$0.202^{+0.295}_{-0.079}$
	+3%/-4%	+6%/-3%	+143%/-250%	+17%/-32%	+6%/-20%	+146%/-39%
Source	KIC0	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 007368103-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-165 ± 24	$4.87^{+1.16}_{-1.17}$	4696^{+294}_{-387}	6054^{+878}_{-593}	$2.466^{+1.633}_{-0.895}$
Alt.	432 ± 46	$35.64^{+3.95}_{-5.98}$	4730^{+284}_{-392}	-4328^{+192}_{-160}	$-0.120^{+0.027}_{-0.046}$

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 $A_{obs} \gg 1.0$

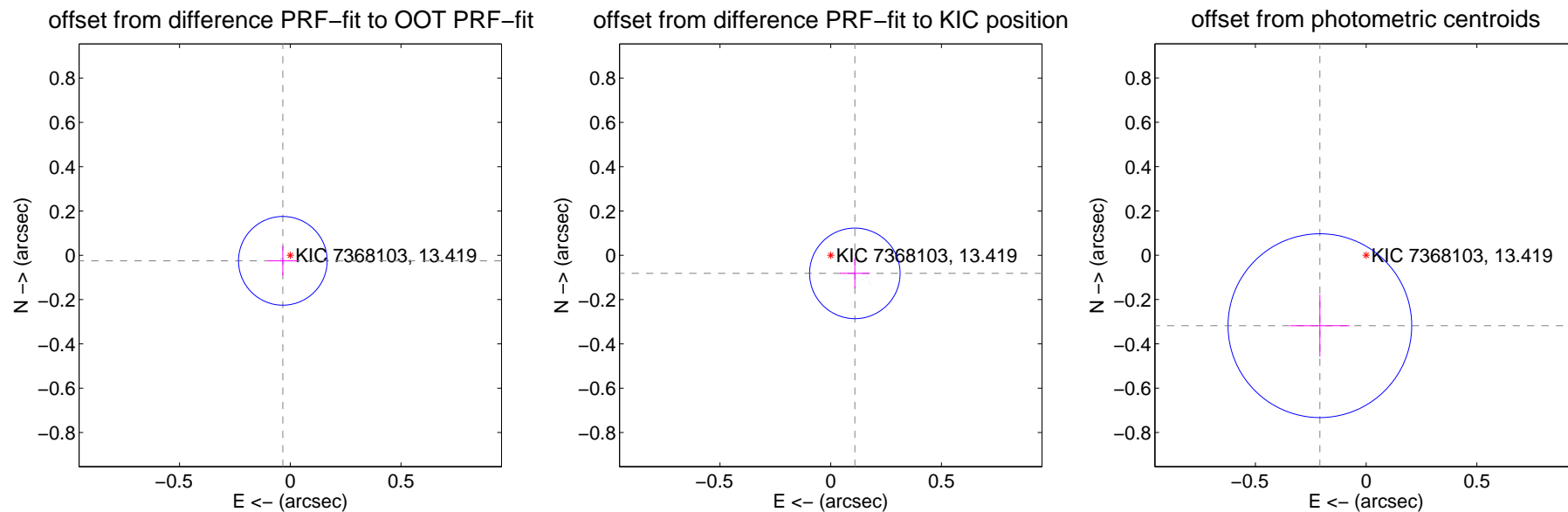
DV Centroid Data

Supplemental centroid analysis for 007368103-02. Kepler magnitude: 13.42. Transit SNR 15.66

There are 17 quarters with good PRF difference image offsets

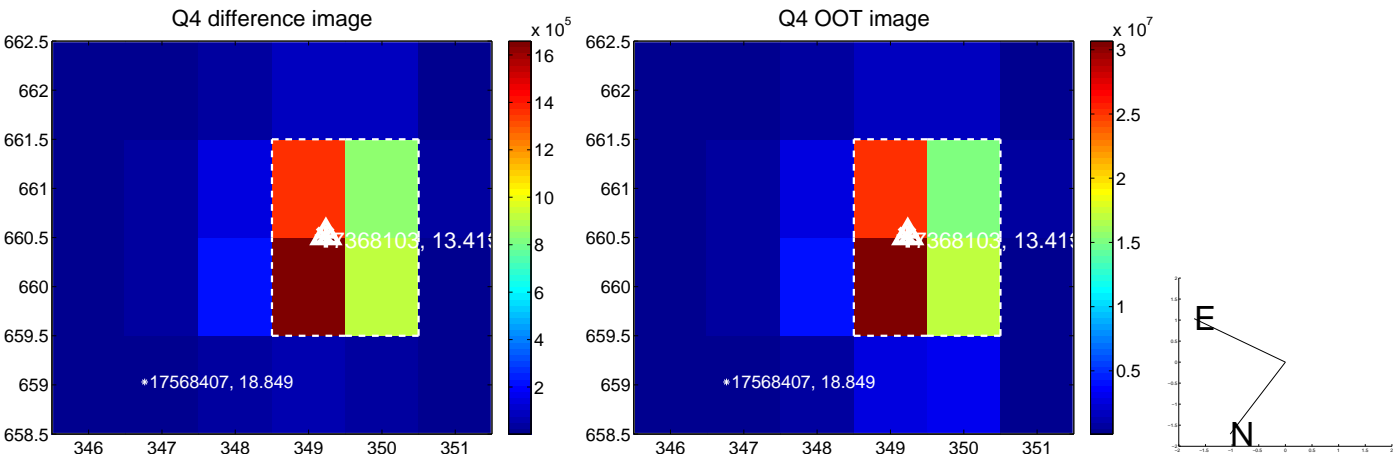
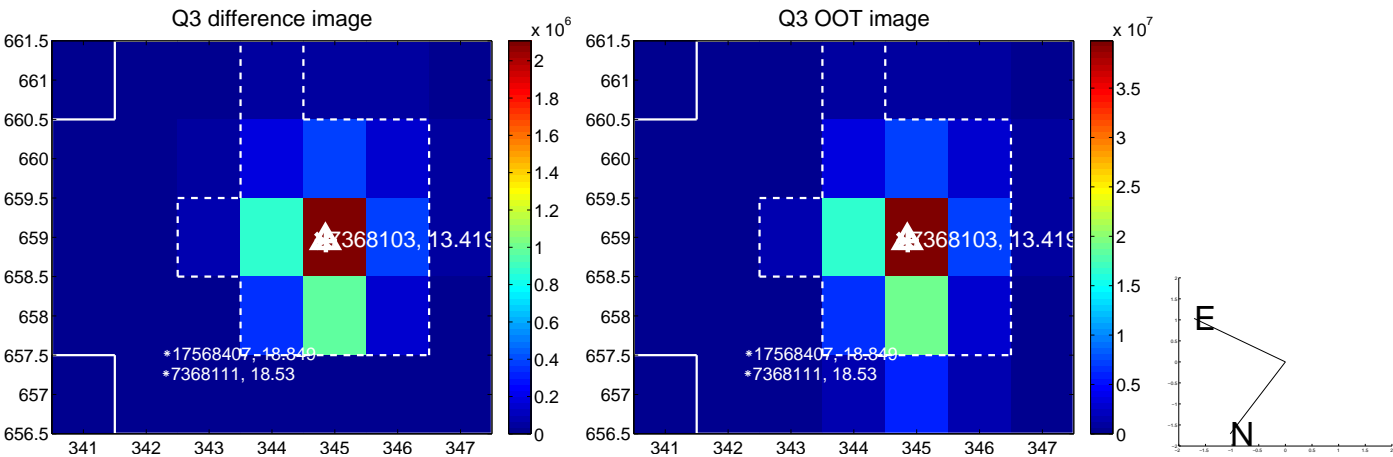
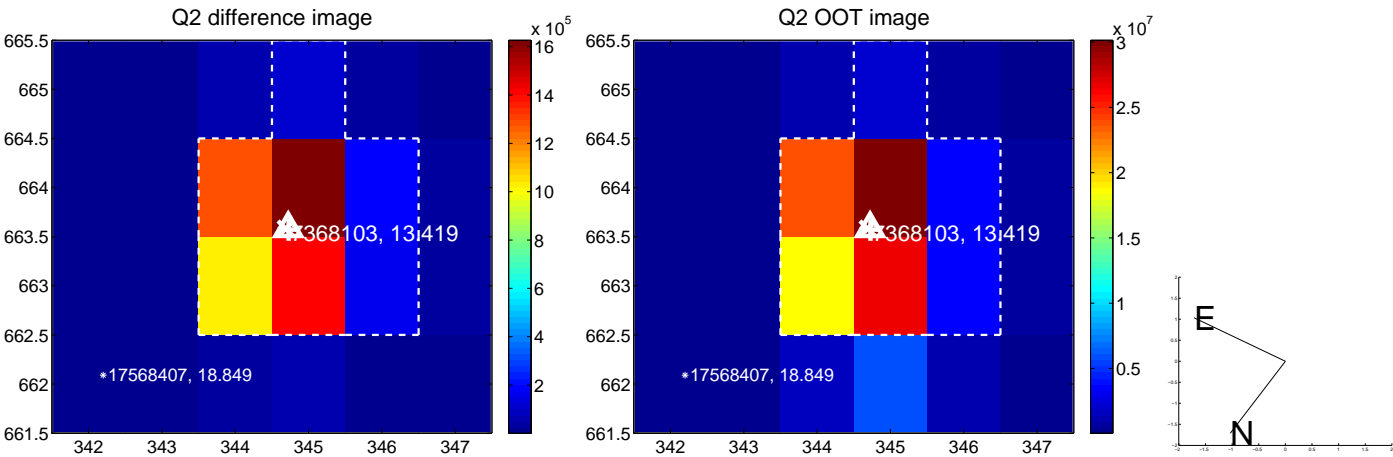
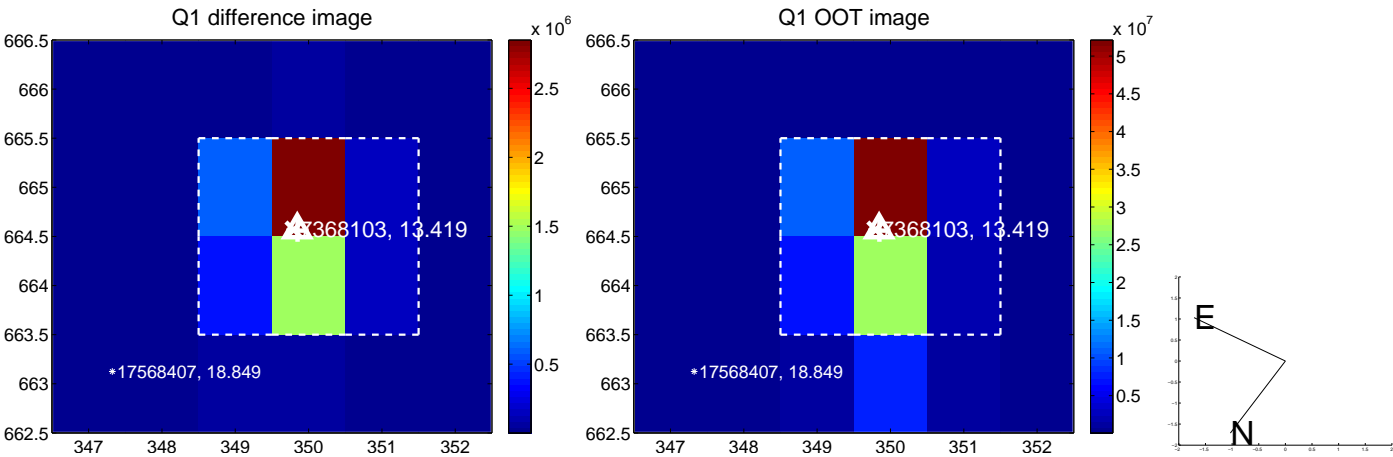
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.042 ± 0.067	0.63	0.034 ± 0.067	-0.025 ± 0.067
PRF-fit source offset from KIC position	0.136 ± 0.068	2.00	-0.109 ± 0.068	-0.082 ± 0.067
photometric centroid source offset	0.38 ± 0.14	2.75	0.21 ± 0.13	-0.32 ± 0.14

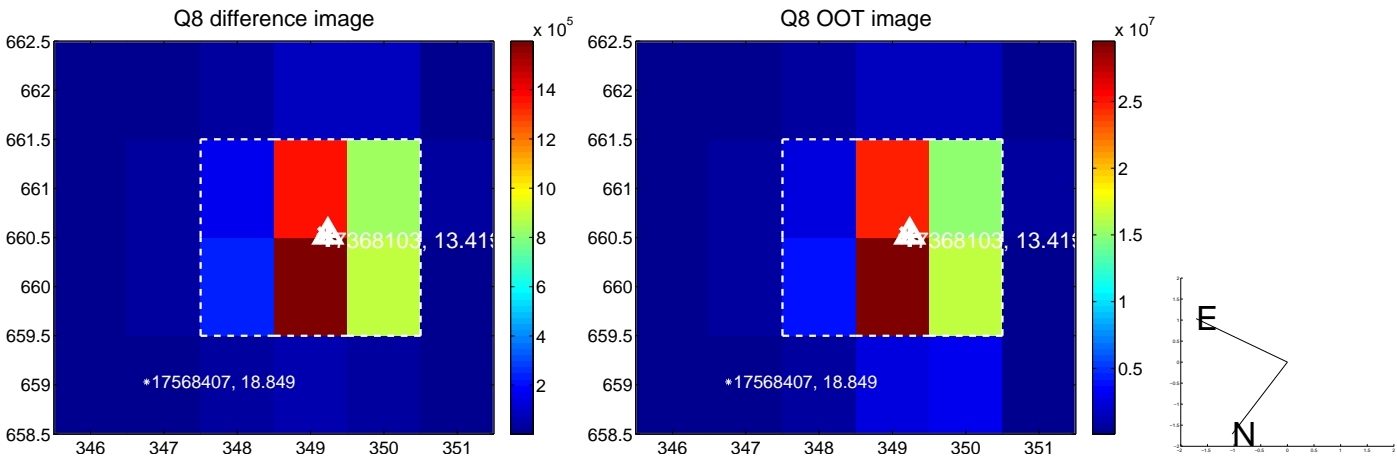
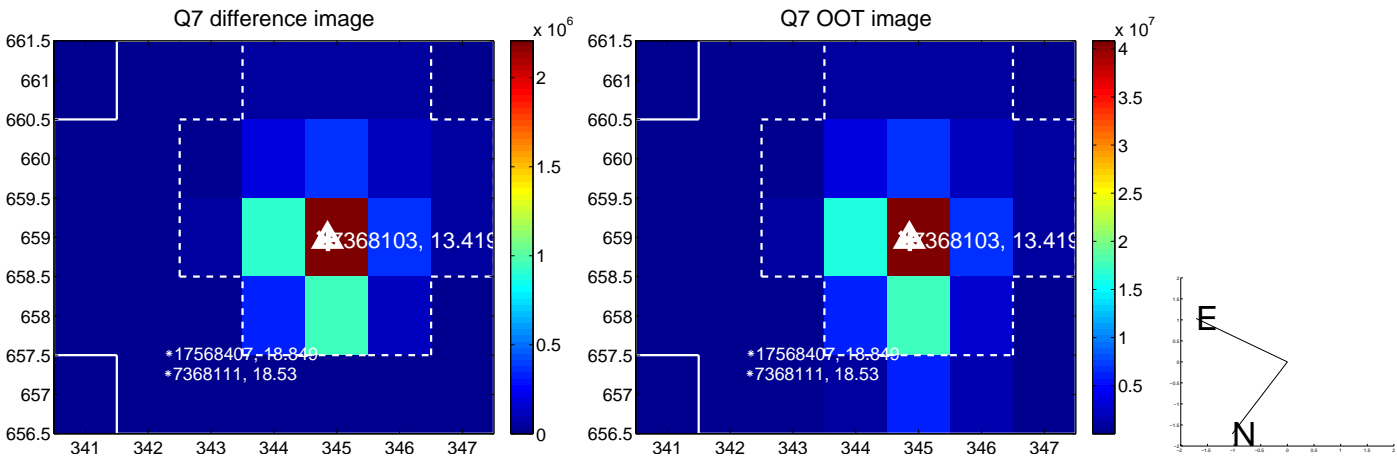
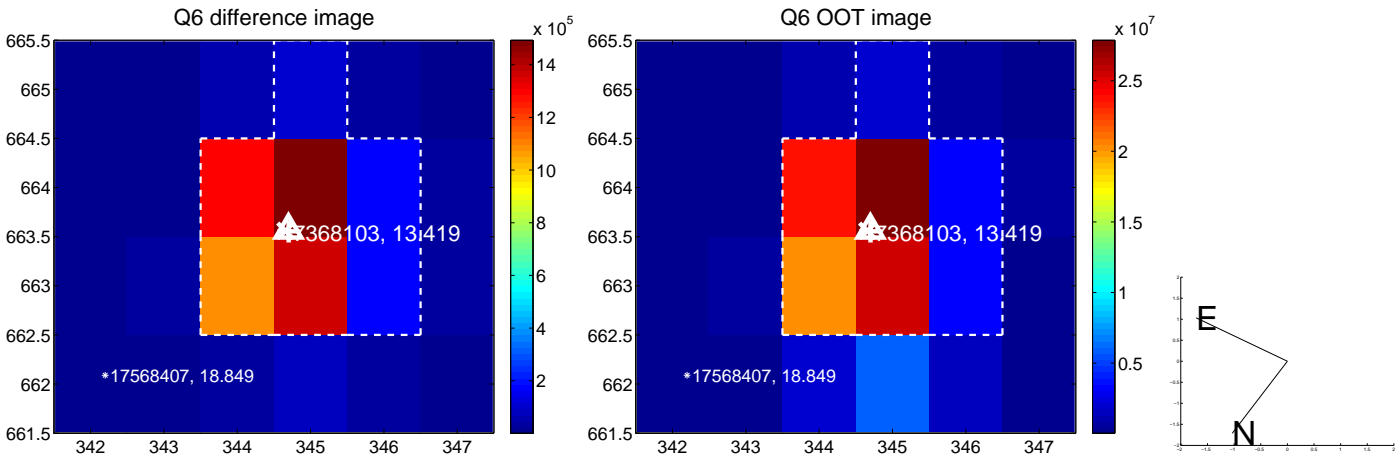
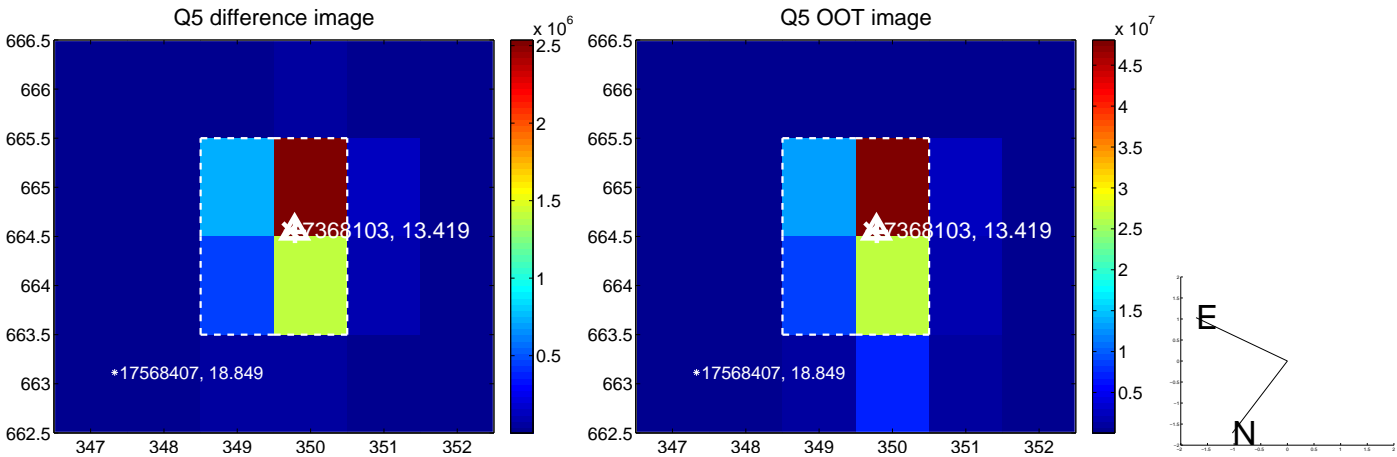


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

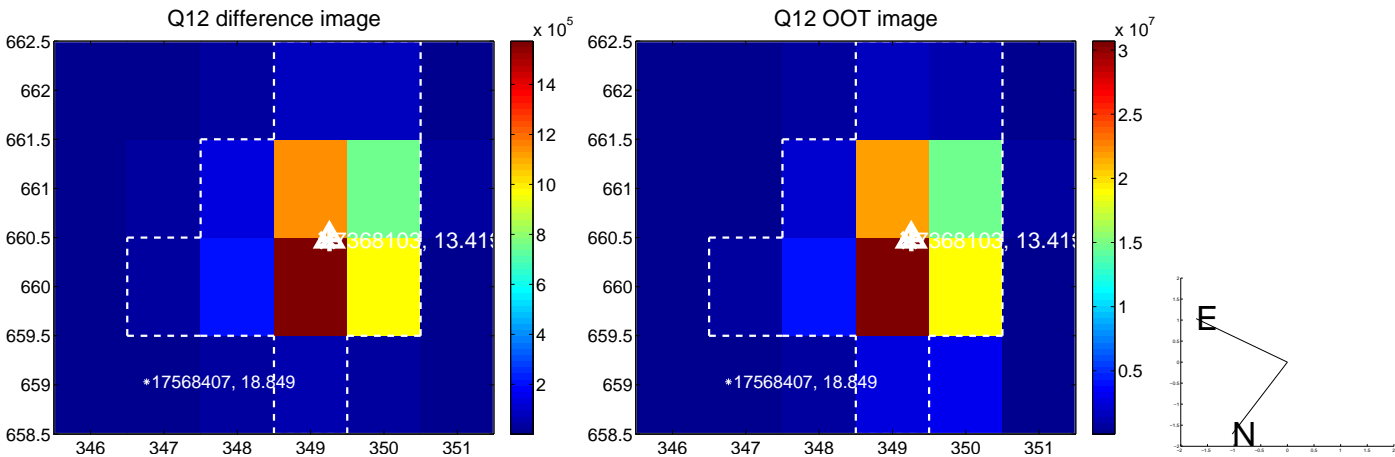
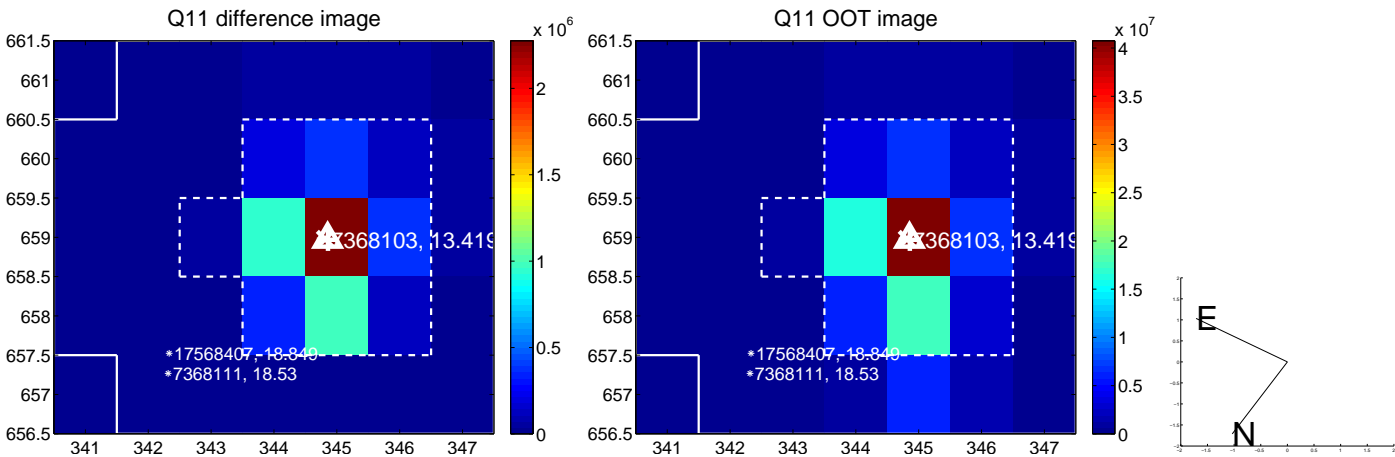
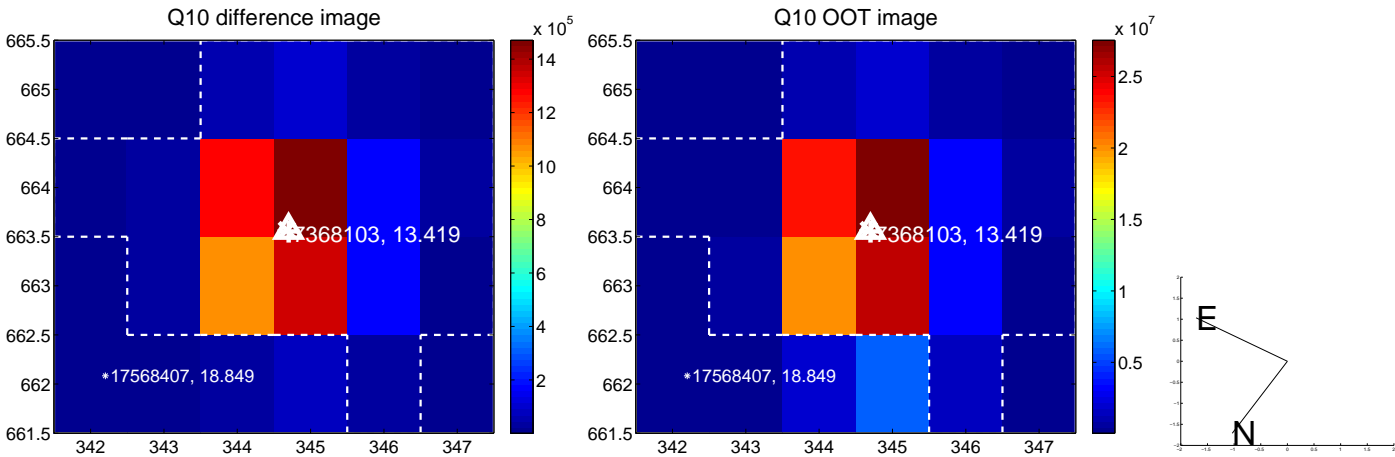
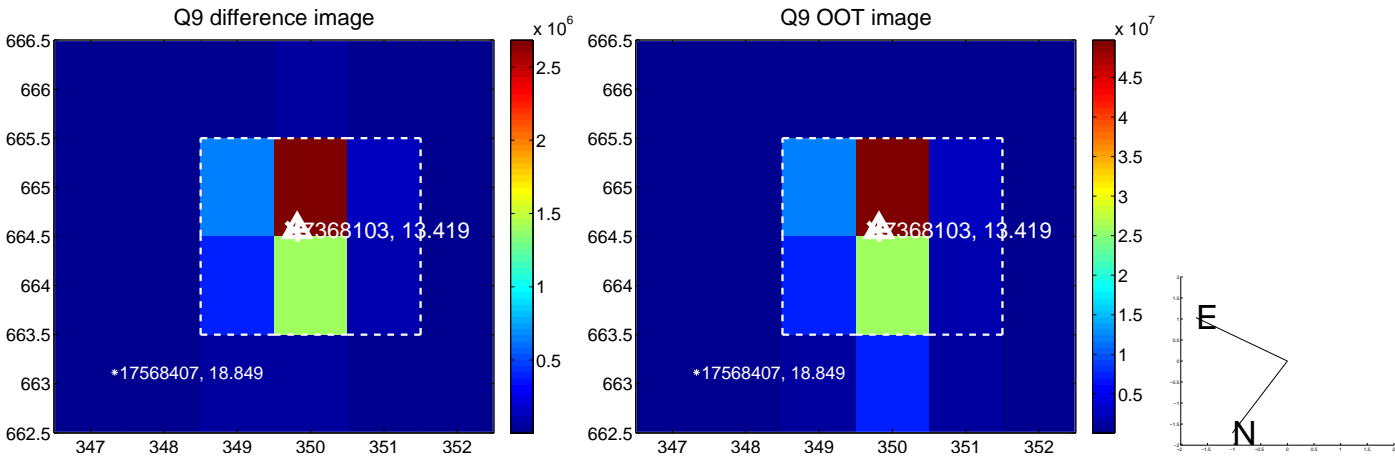
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



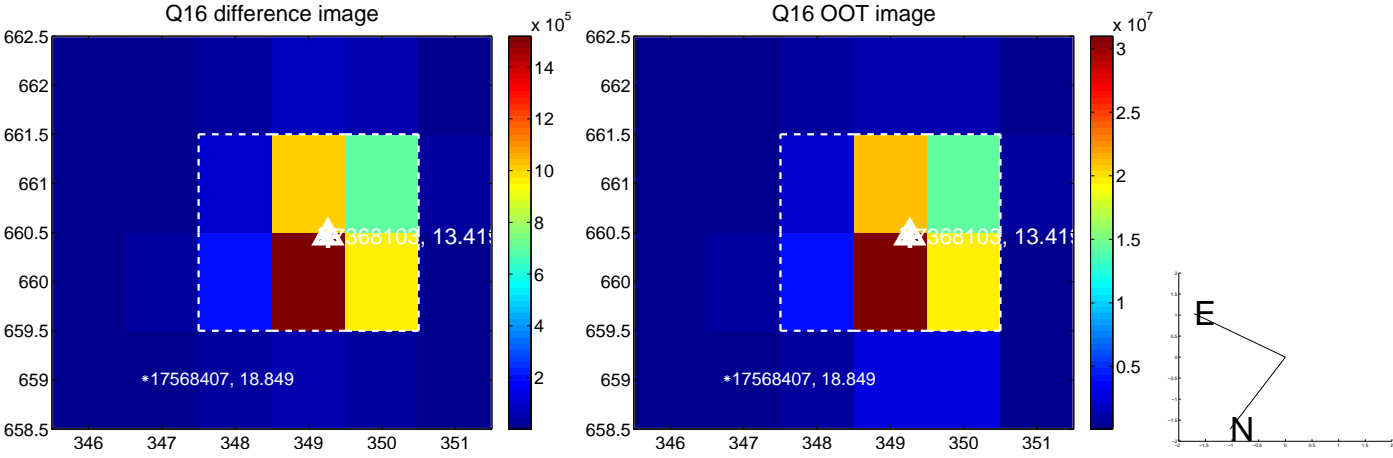
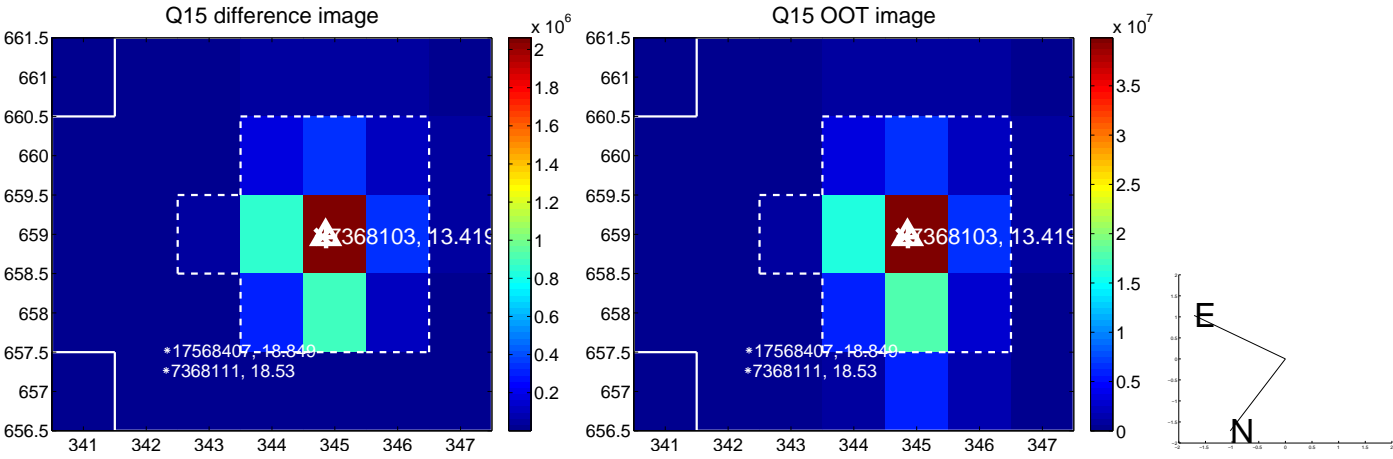
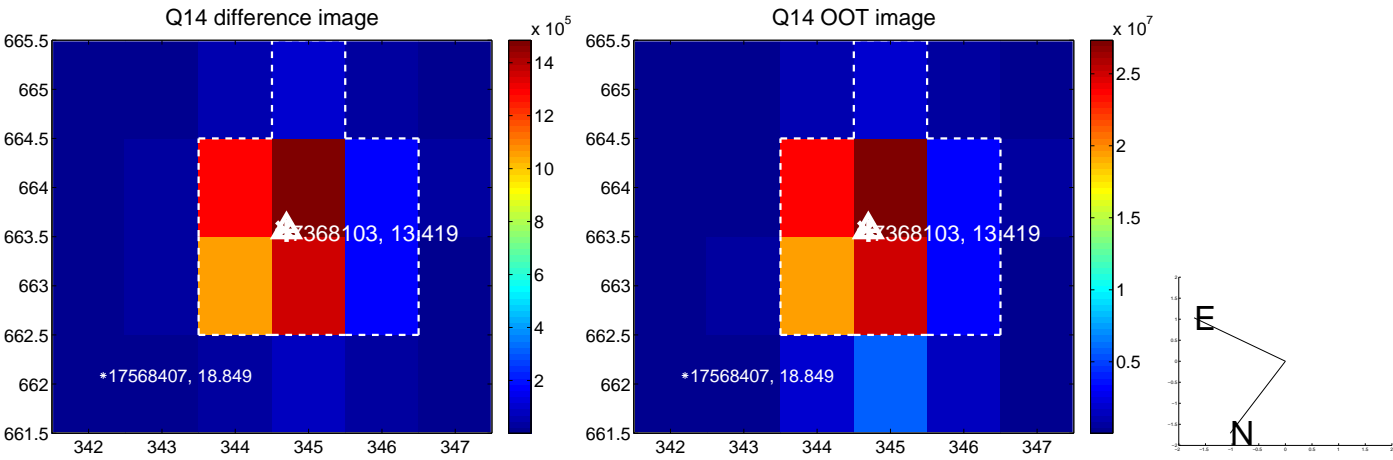
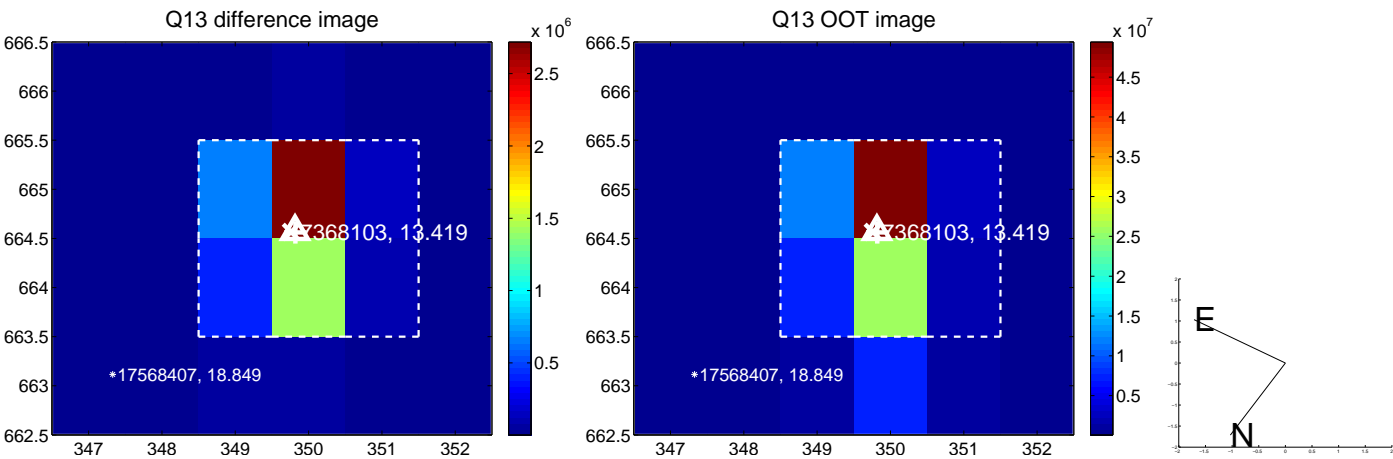
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



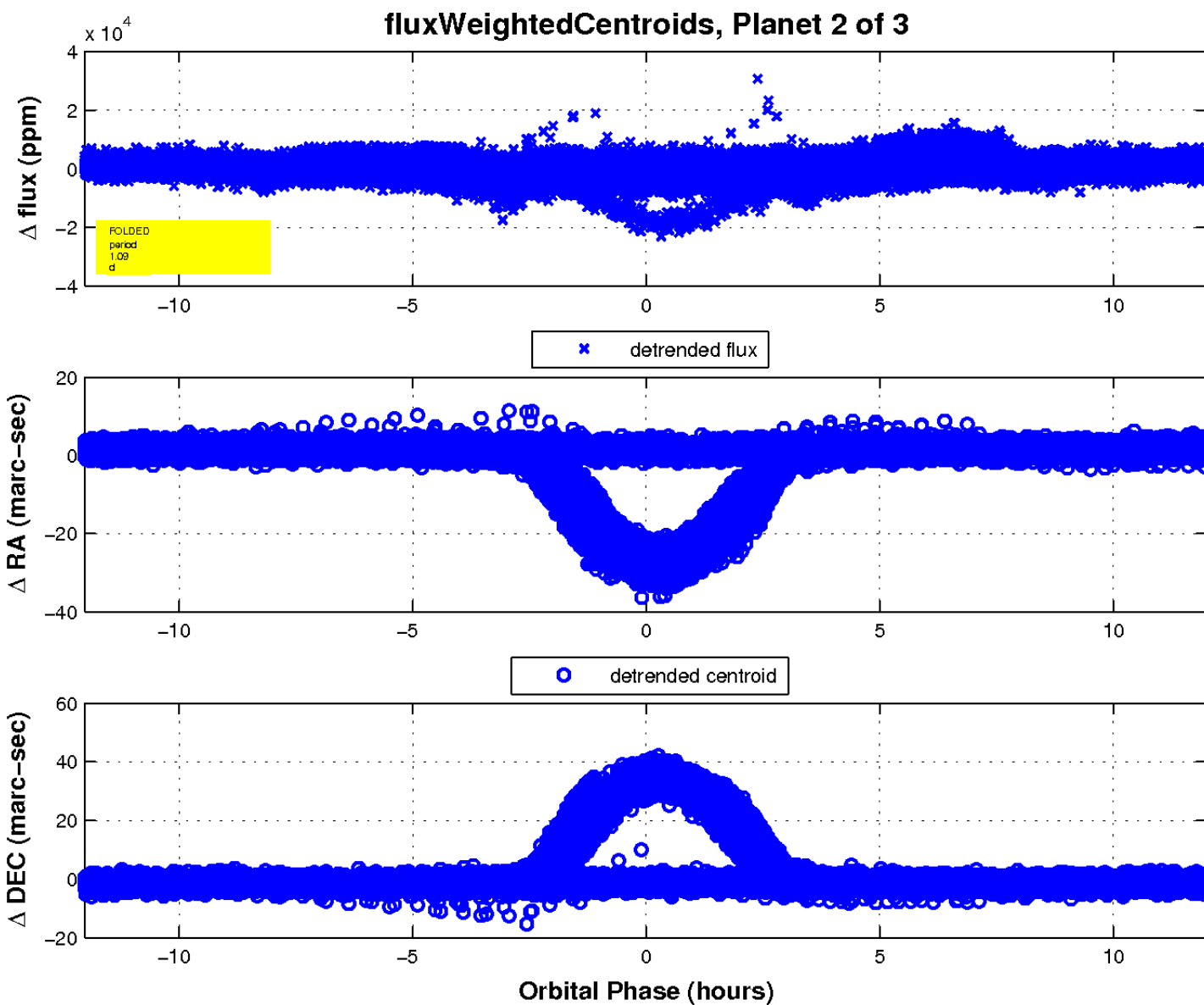
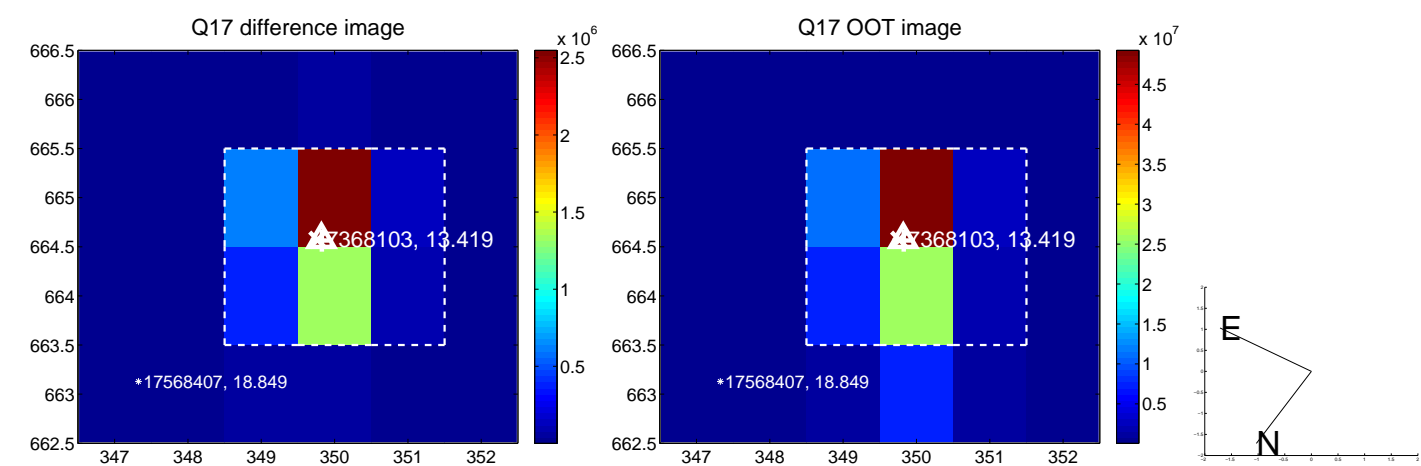
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

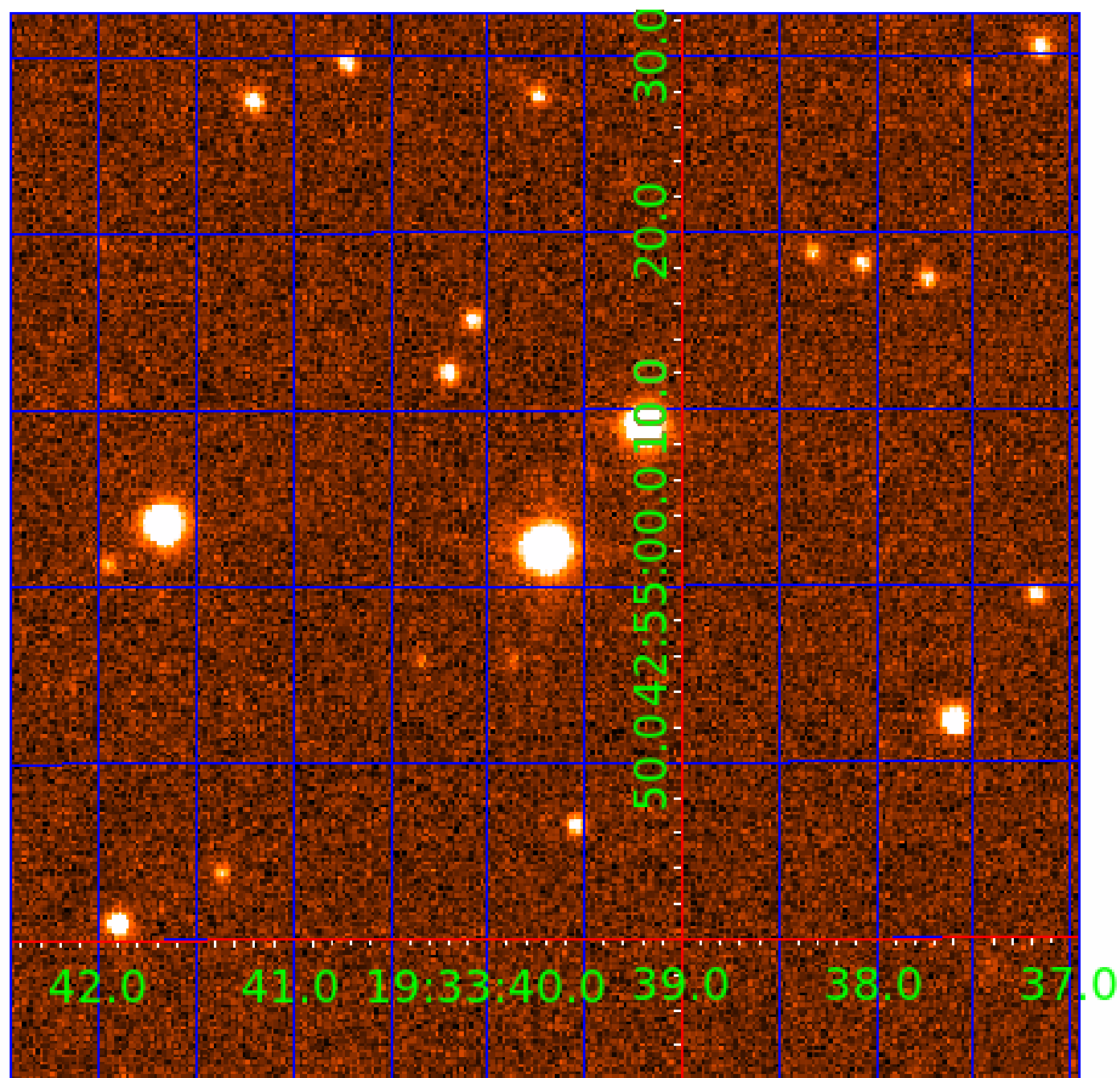


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007368103

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})
007368103-01	OBS	6869.01	2.182516	132.353550	108988.7	6.063	4048.7	3005.7	2.35	8051	122.73	12648.12
007368103-02	OBS	No	1.091245	132.352452	348.0	4.006	26.8	15.7	2.35	8051	5.06	31871.75
007368103-03	OBS	No	2.182458	131.613277	219.6	3.000	12.6	-1.0	2.35	8051	3.52	12648.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007368103-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—DEEP_V_SHAPED—HAS_SEC_TCE
007368103-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007368103-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_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.

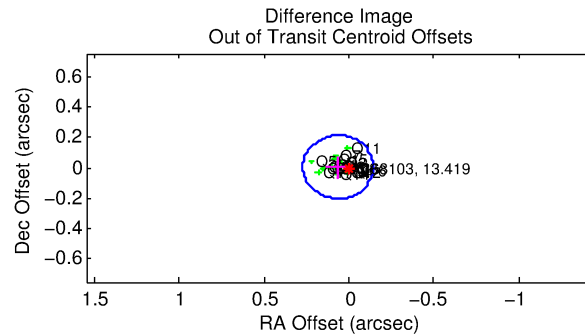
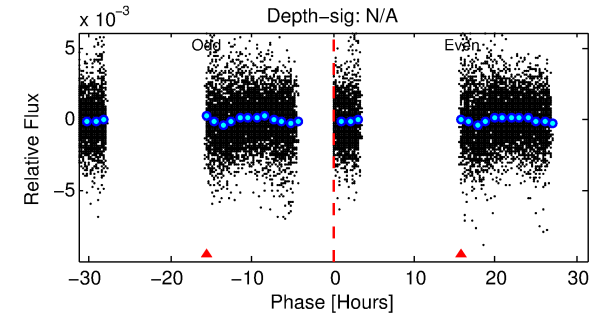
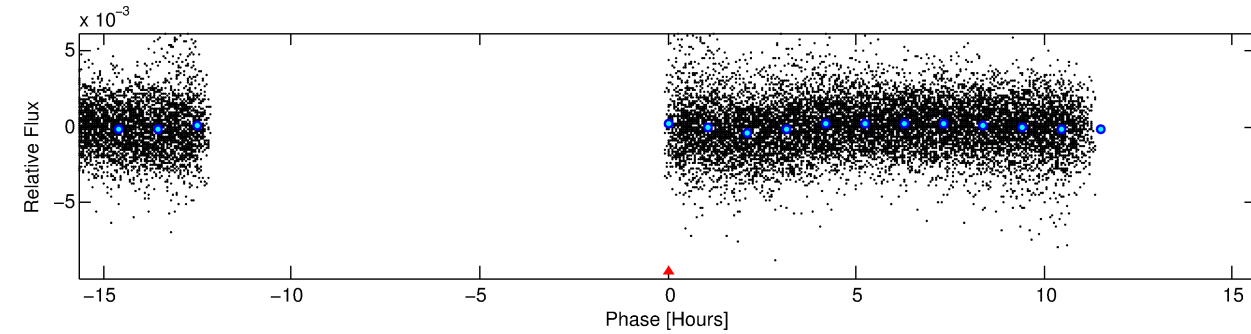
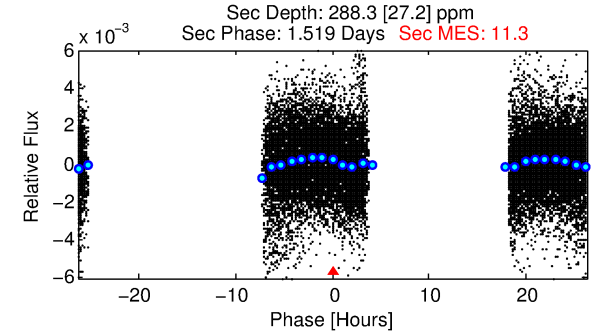
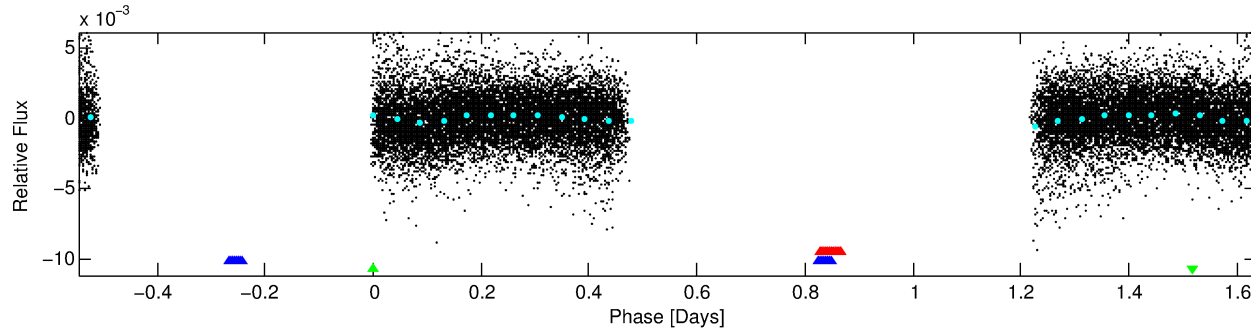
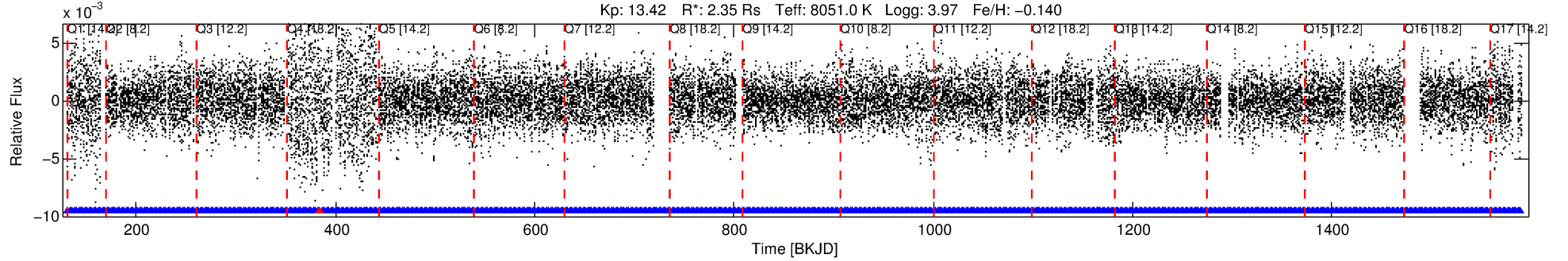
Ephemeris Match Information For 007368103-03

No Significant Match Found

DV One-Page Summary

KIC: 7368103 Candidate: 3 of 3 Period: 2.182 d
KOI: K06869 Corr: No Ephemeris Match

Kp: 13.42 R*: 2.35 Rs Teff: 8051.0 K Logg: 3.97 Fe/H: -0.140



TPS TCE Results:

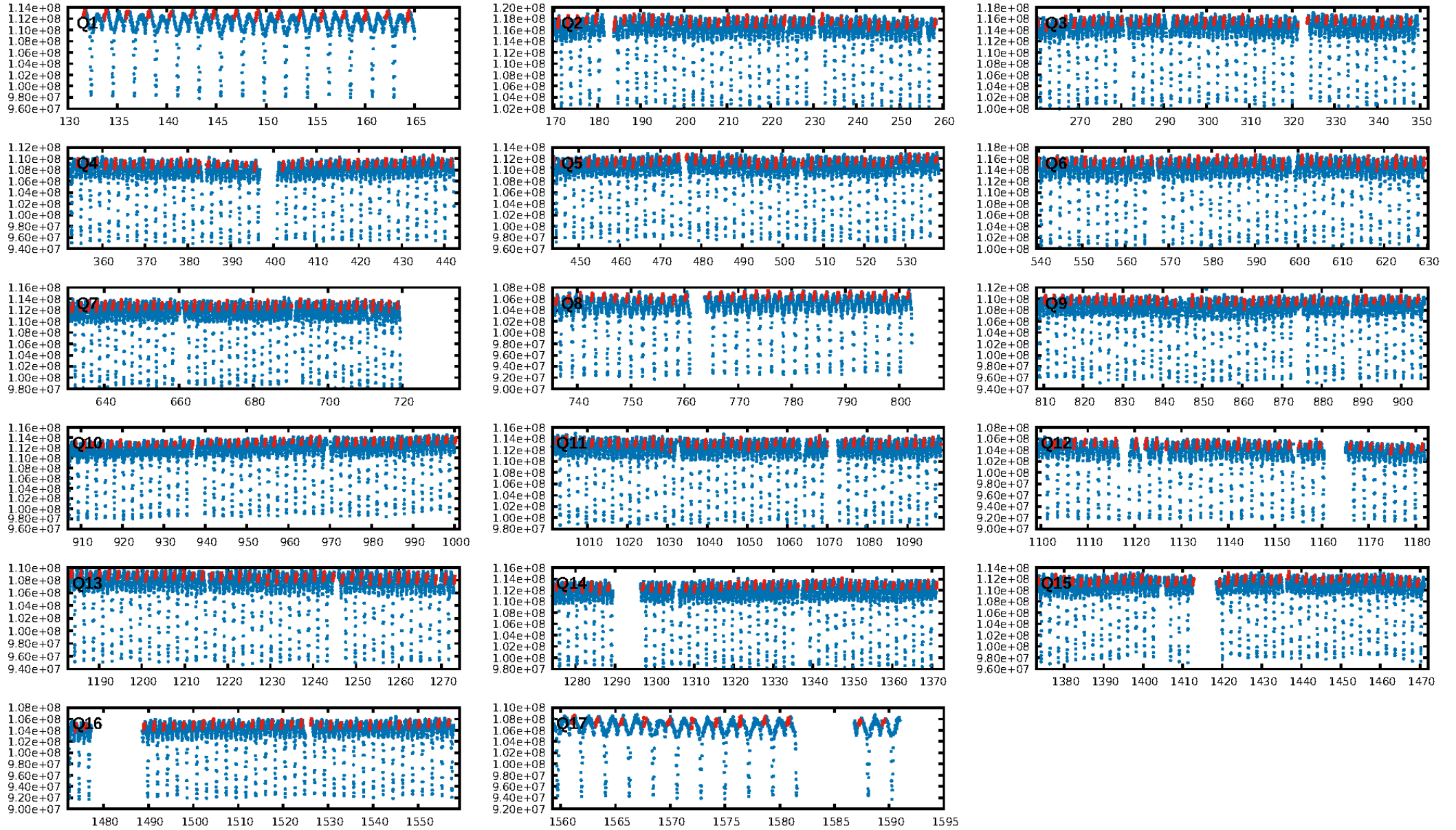
Period = 2.18246 d
Epoch = 131.6133 BKJD

DV fit results are unavailable

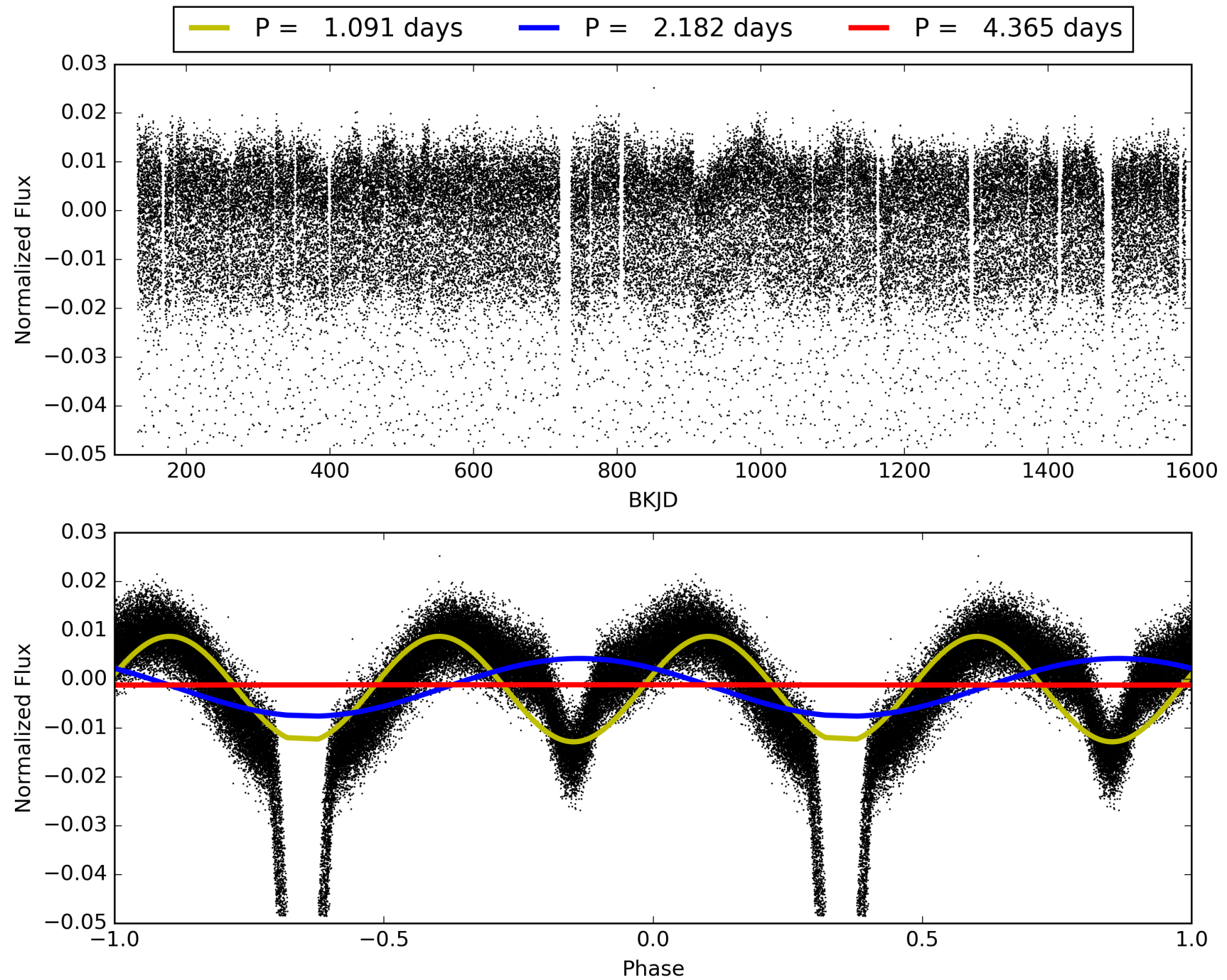
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [5.23 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [588/589]
GhostDiagnostic-chr: -0.2842
Centroid-sig: N/A
Centroid-so: 0.483 arcsec [37.33 σ]
OotOffset-rm: 0.065 arcsec [0.94 σ]
KicOffset-rm: 0.079 arcsec [1.17 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007368103-03, PDC Light Curves

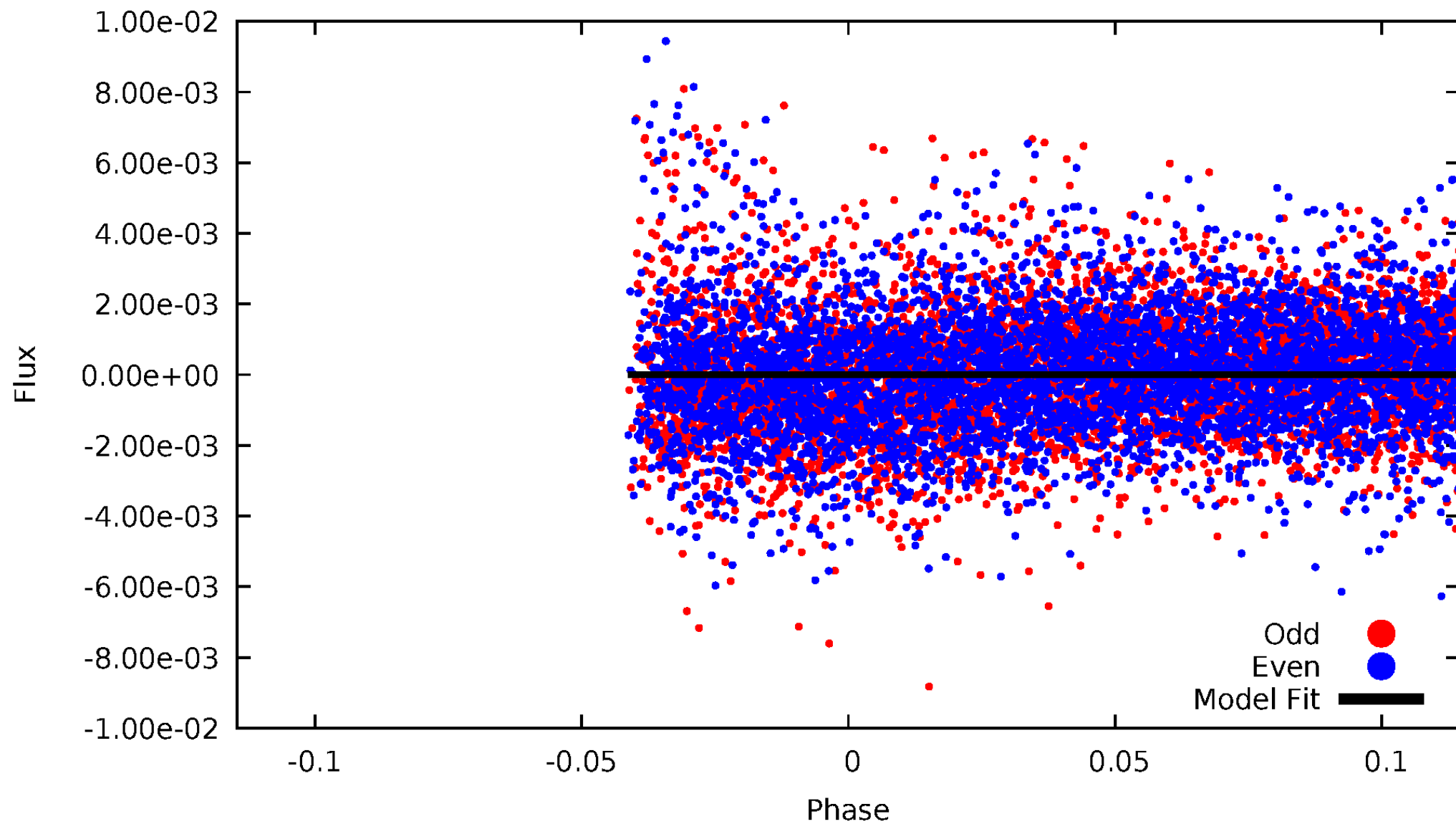


TCE 007368103-03



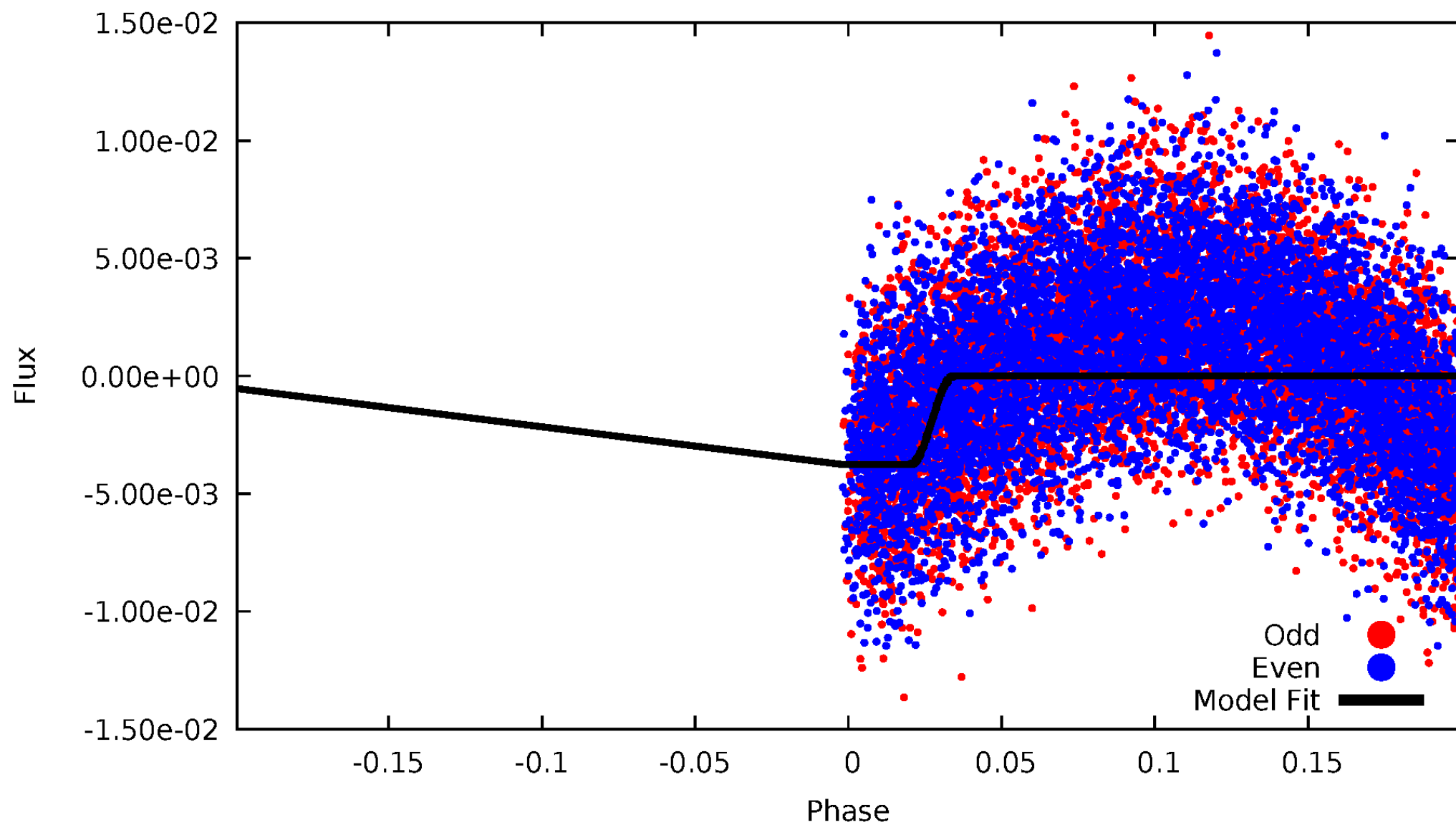
DV Odd/Even

TCE 007368103-03

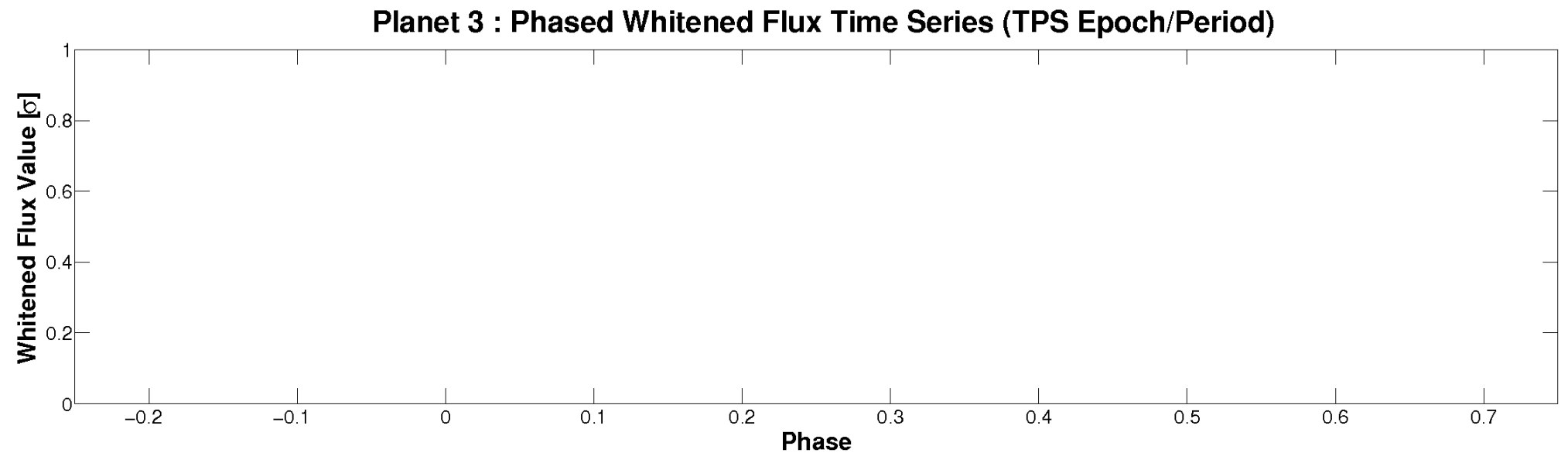
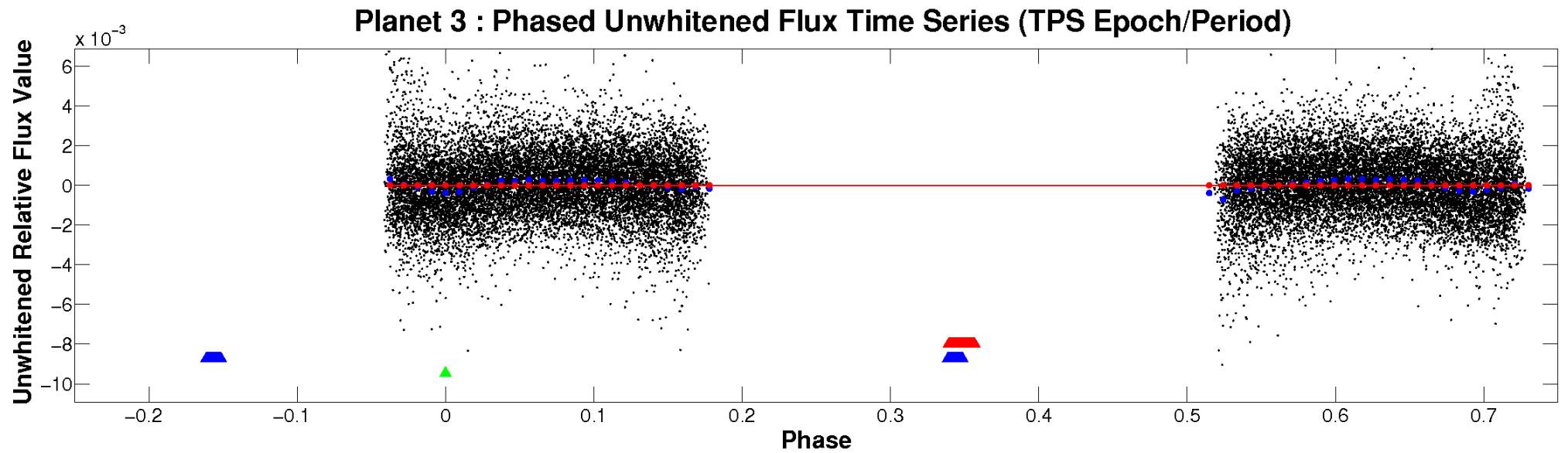


ALT Odd/Even

TCE 007368103-03

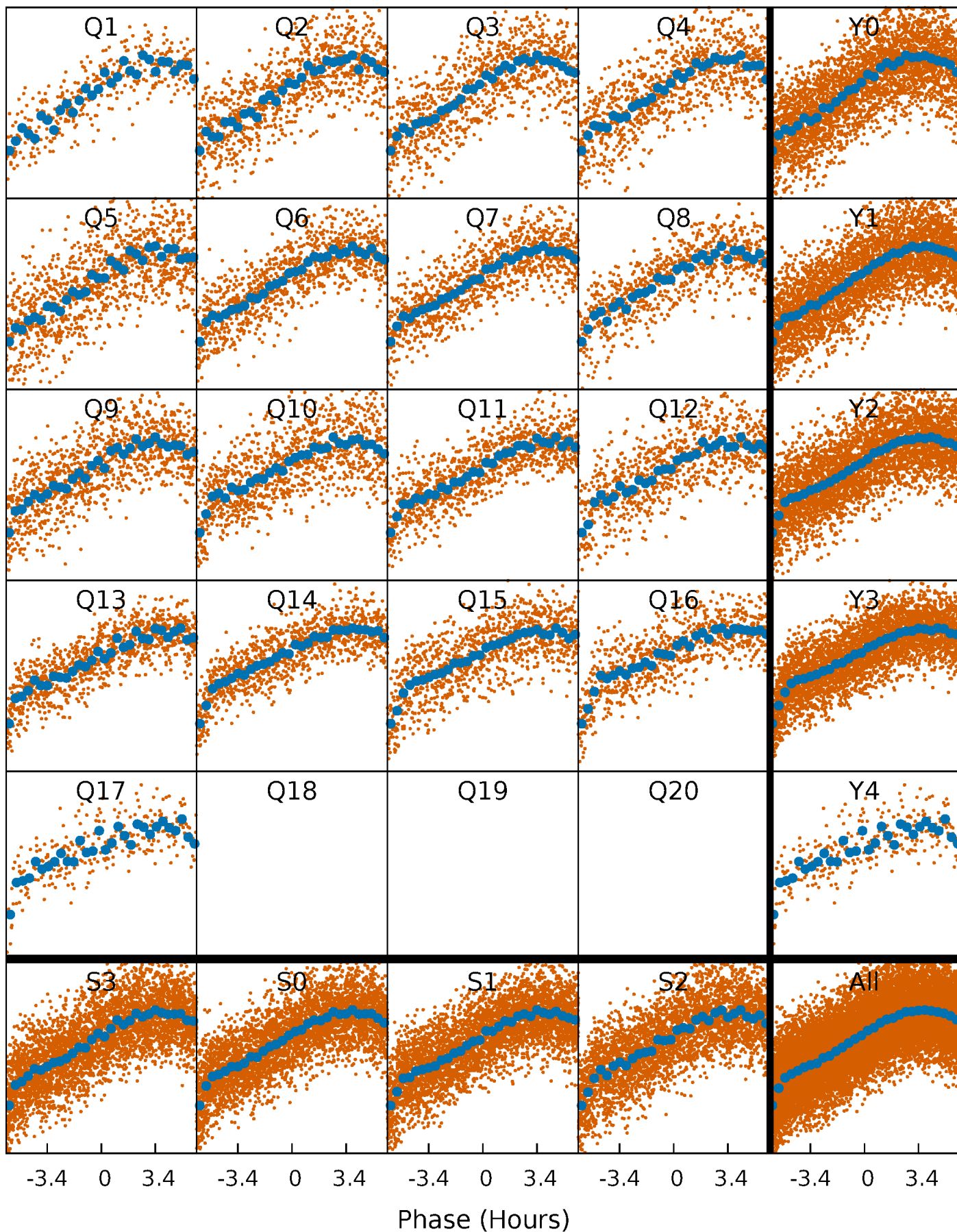


Non-Whitened Vs. Whitened Light Curve



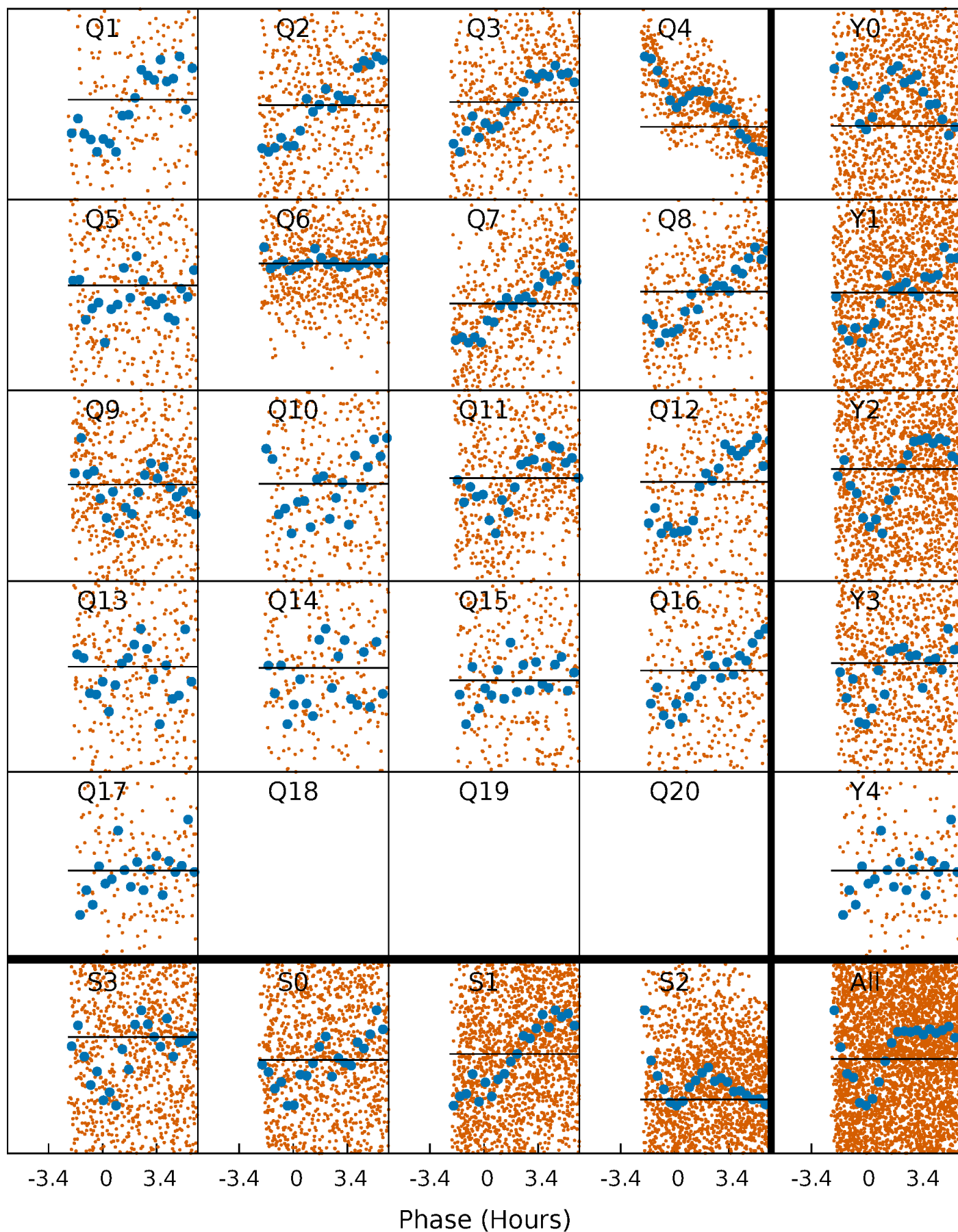
PDC Quarter-Phased Transit Curves

TCE 007368103-03 P= 2.182458 Days $T_0=131.613277$ (BKJD)



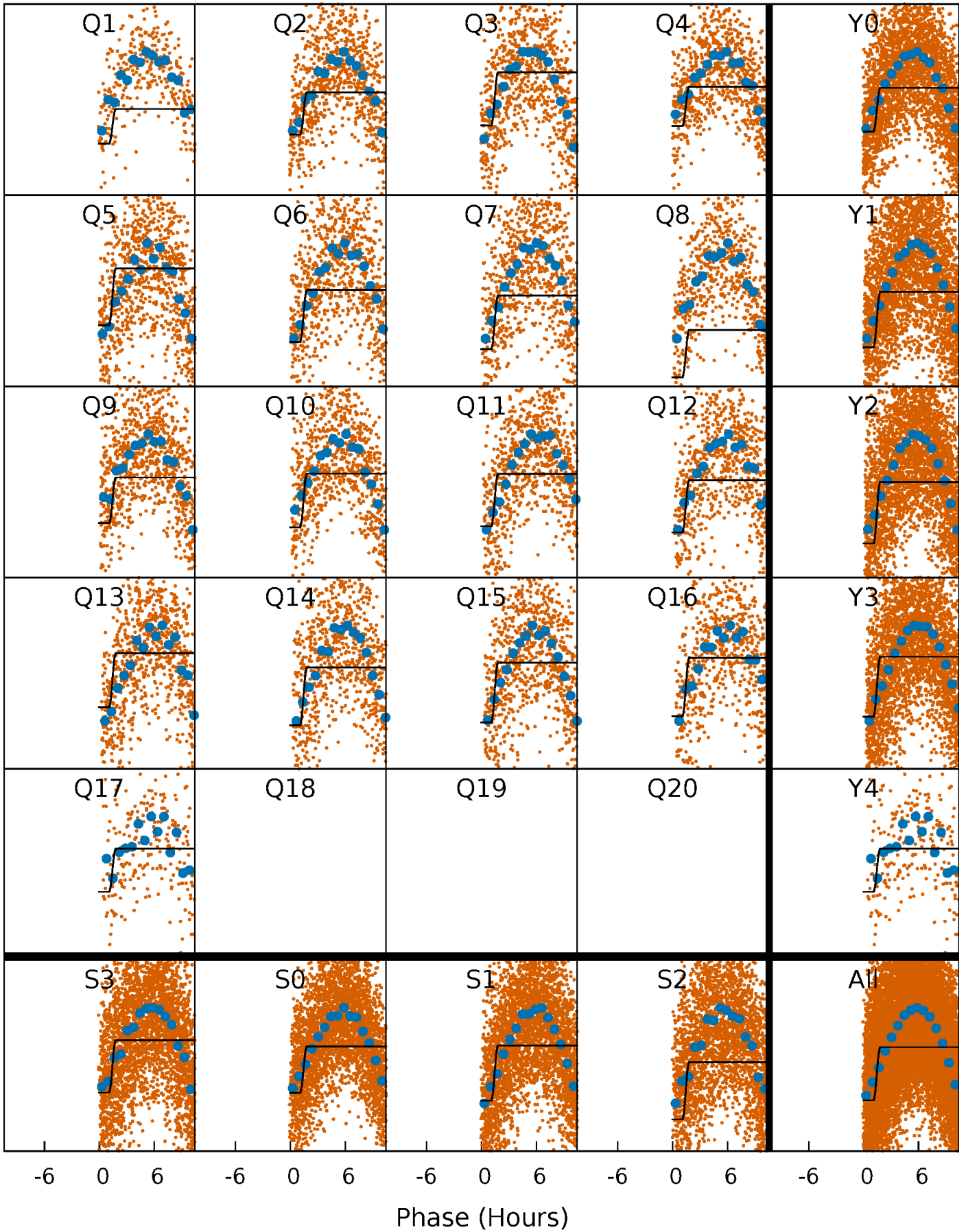
DV Quarter-Phased Transit Curves

TCE 007368103-03 P= 2.182458 Days $T_0=131.613277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

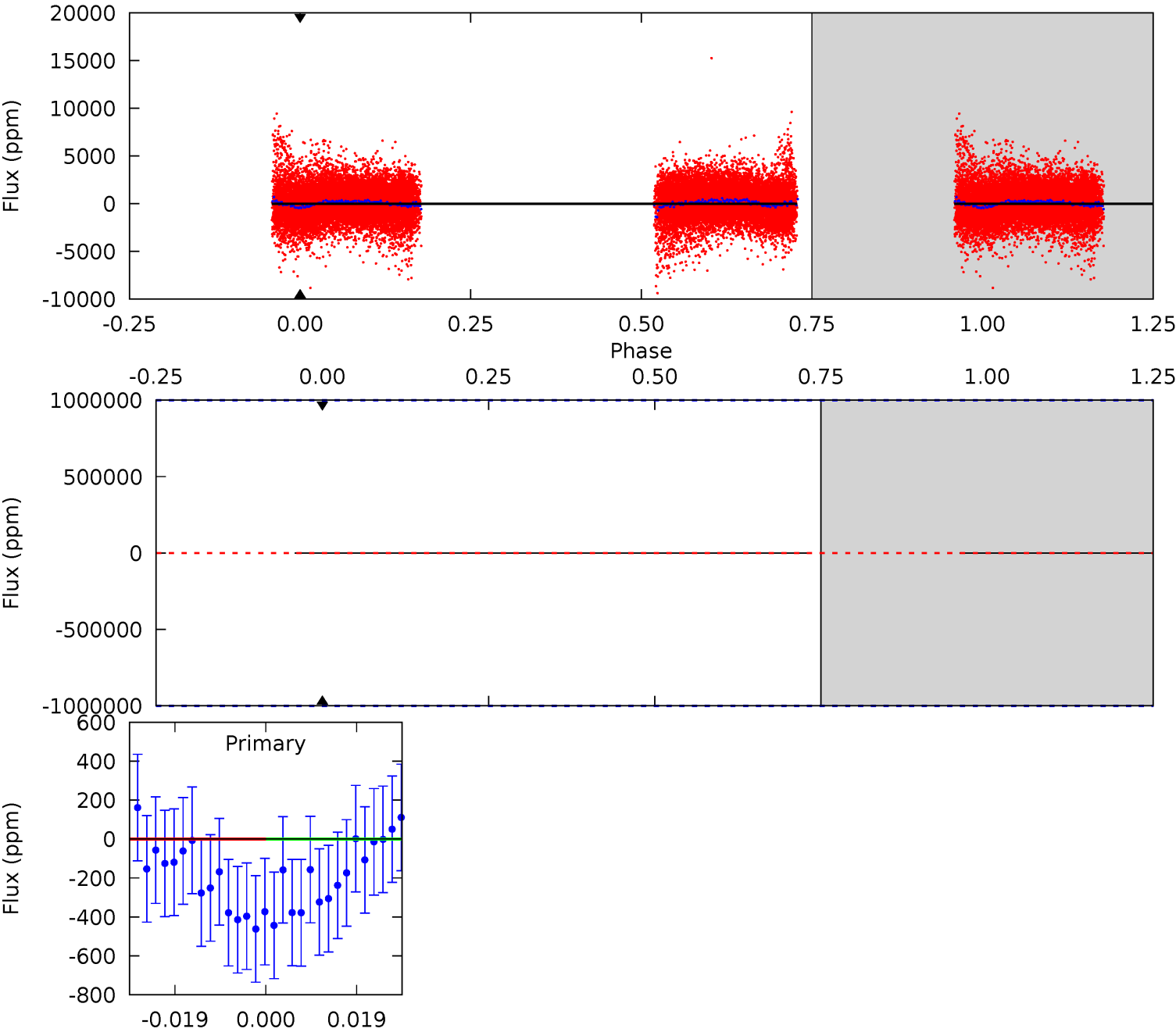
TCE 007368103-03 P= 2.182458 Days $T_0=131.527160$ (BKJD)



DV Model-Shift Uniqueness Test

007368103-03, P = 2.182458 Days, E = 129.430819 Days

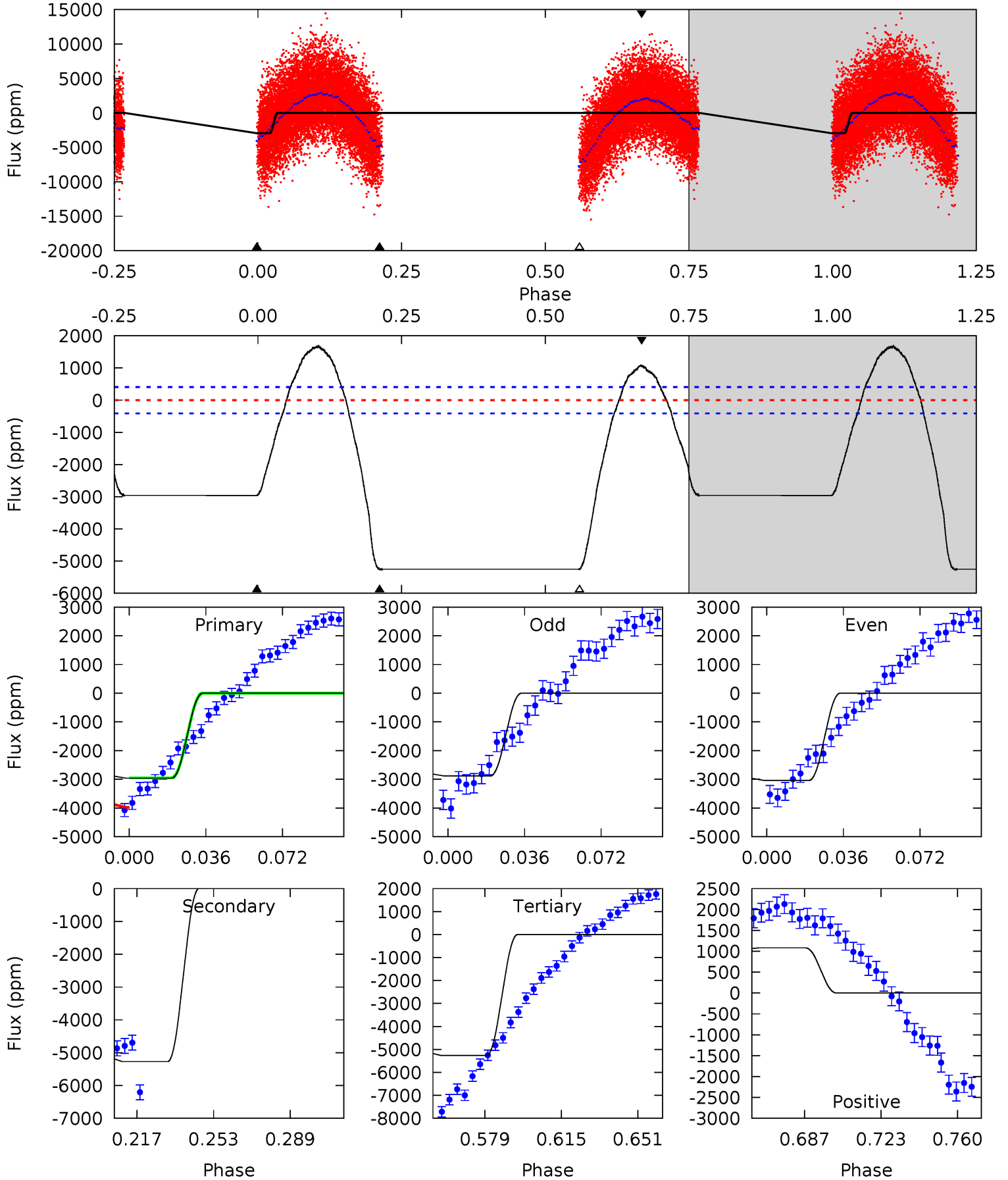
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007368103-03, P = 2.182458 Days, E = 131.527160 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
34.4	61.2	61.1	12.6	4.77	2.10	21.5	-26.7	21.8	0.11	48.7	0.88	0.97	0.24	1.25



Stellar Parameters For KIC 007368103

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8051^{+225}_{-338}	$3.966^{+0.227}_{-0.122}$	$-0.140^{+0.200}_{-0.350}$	$2.347^{+0.409}_{-0.760}$	$1.856^{+0.119}_{-0.380}$	$0.202^{+0.295}_{-0.079}$
	+3%/-4%	+6%/-3%	+143%/-250%	+17%/-32%	+6%/-20%	+146%/-39%
Source	KIC0	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 007368103-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$17.95^{+20.10}_{-13.22}$	3737^{+238}_{-304}	4967^{+53109}_{-49870}	$2.779^{+631.854}_{-445.004}$
Alt.	-5269 ± 86	$23.27^{+22.17}_{-15.22}$	3720^{+240}_{-276}	6719^{+8035}_{-1808}	$8.579^{+62.557}_{-6.347}$

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

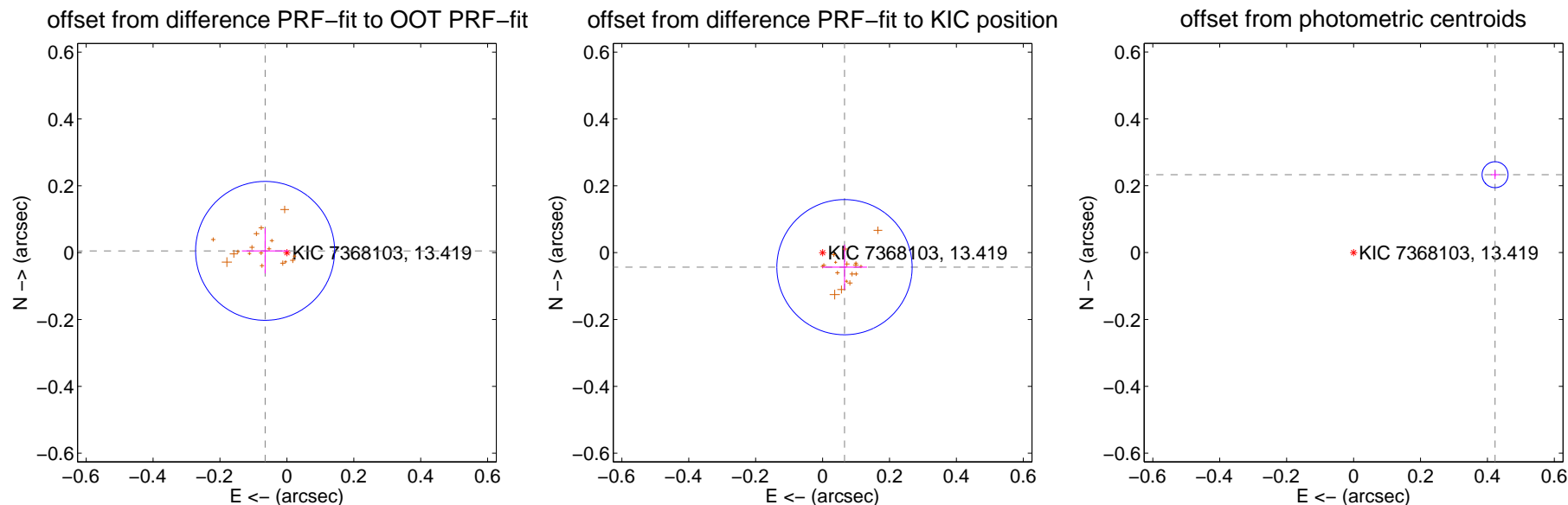
DV Centroid Data

Supplemental centroid analysis for 007368103-03. Kepler magnitude: 13.42. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

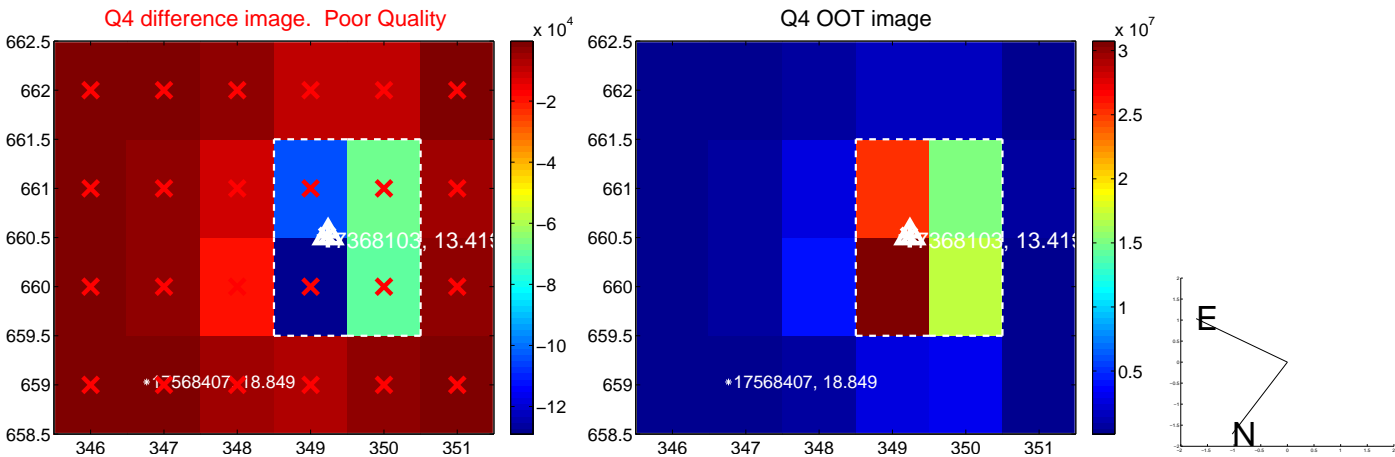
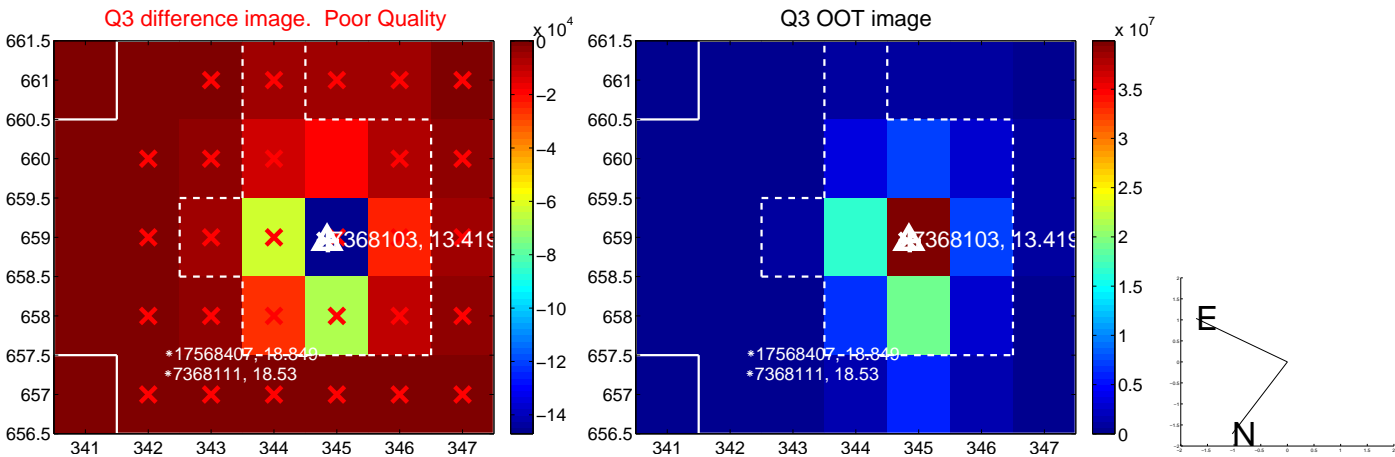
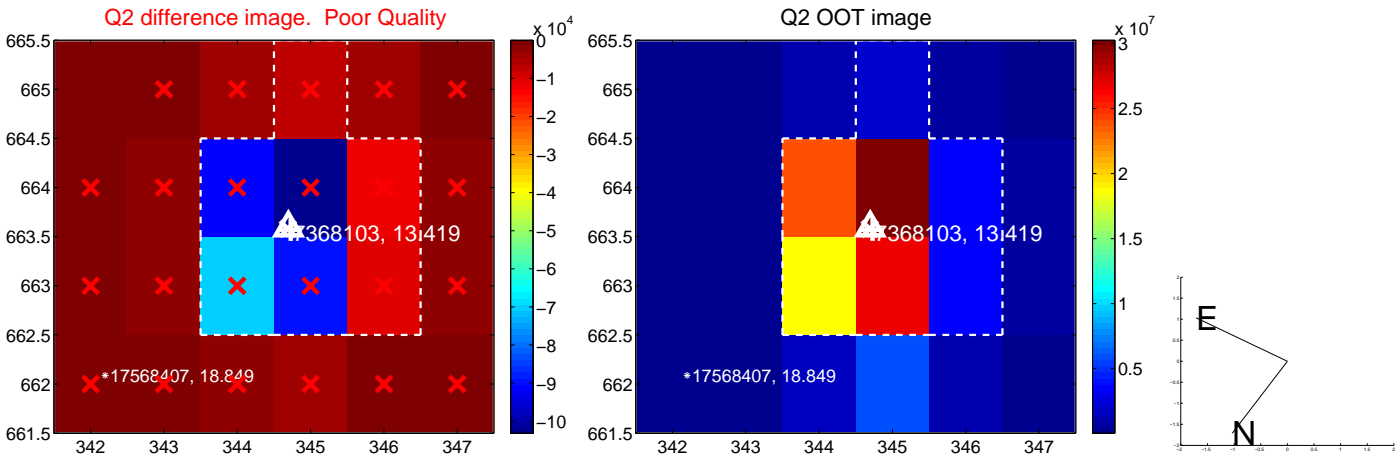
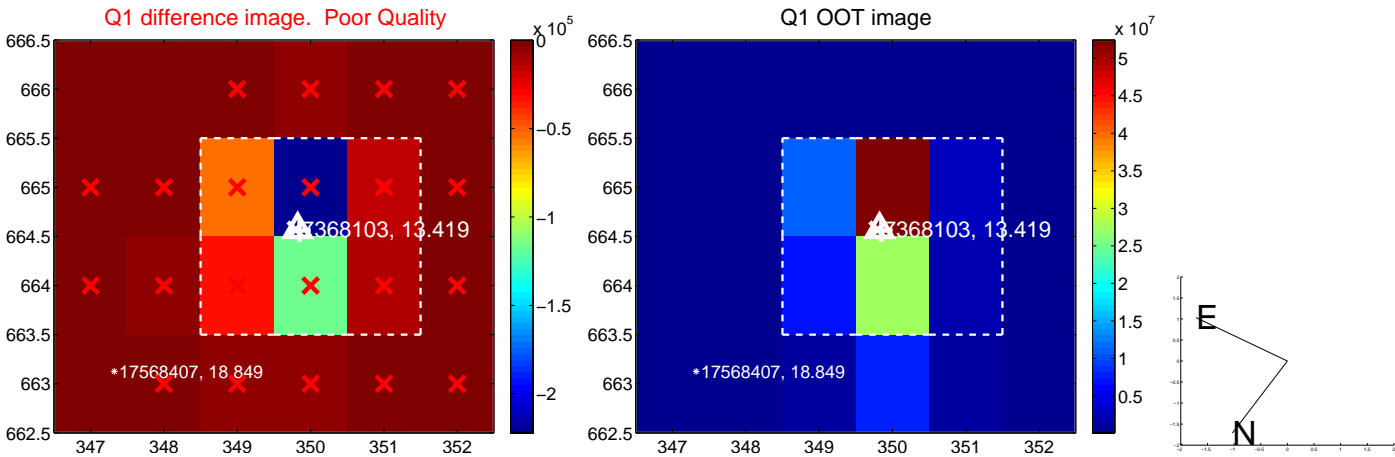
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.065 ± 0.069	0.94	0.065 ± 0.069	0.005 ± 0.068
PRF-fit source offset from KIC position	0.079 ± 0.067	1.17	-0.065 ± 0.067	-0.043 ± 0.067
photometric centroid source offset	0.48 ± 0.01	37.33	-0.42 ± 0.01	0.23 ± 0.01

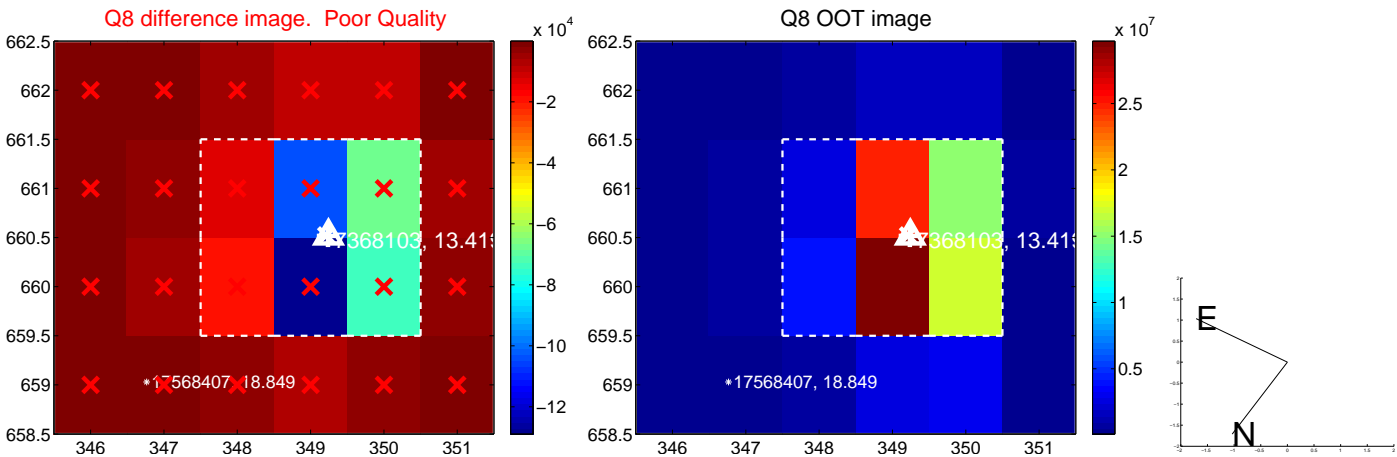
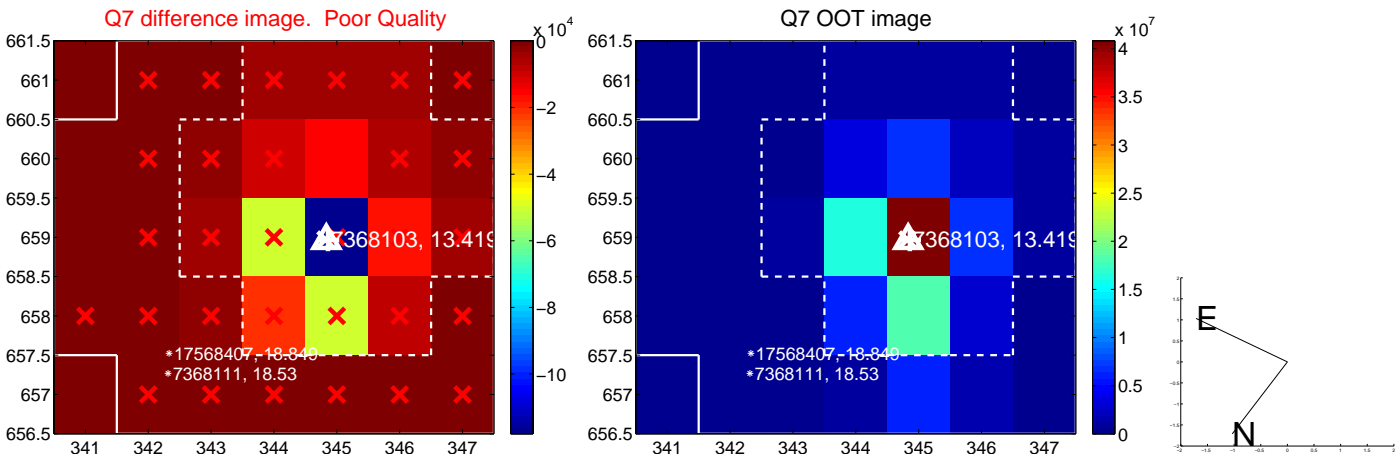
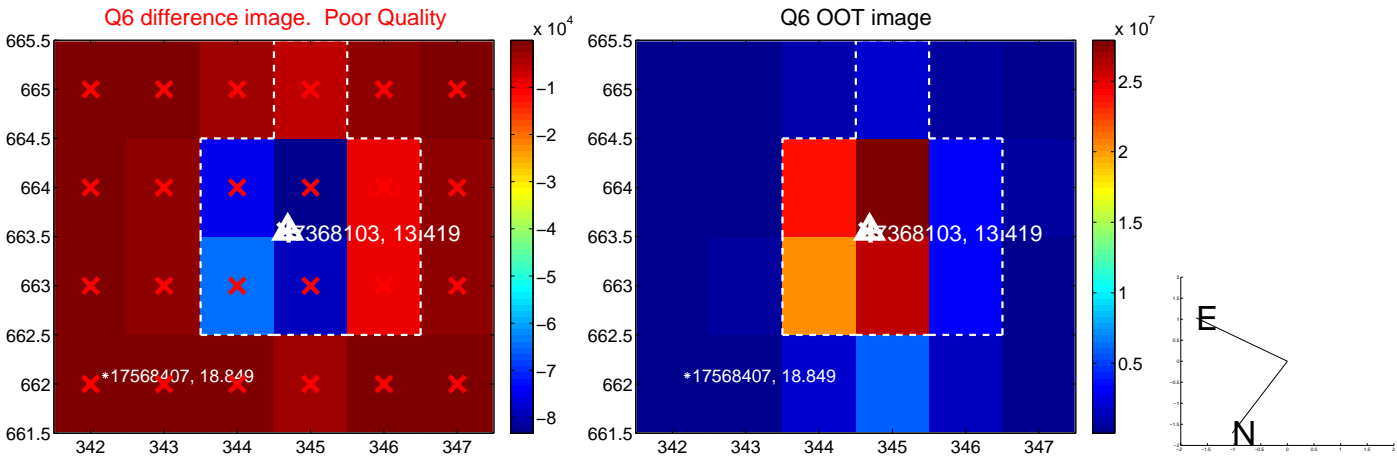
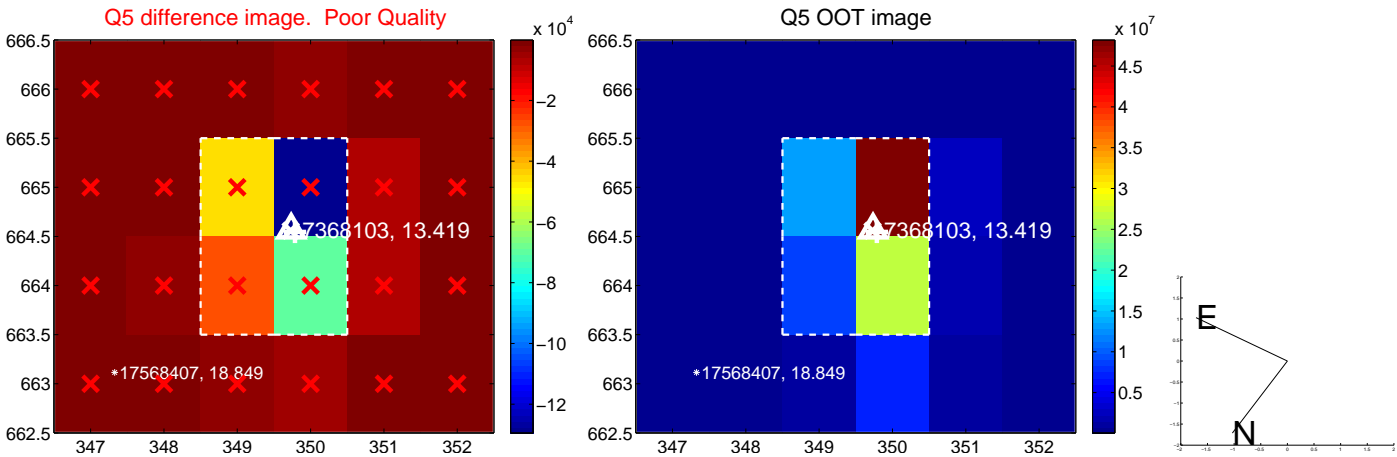


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

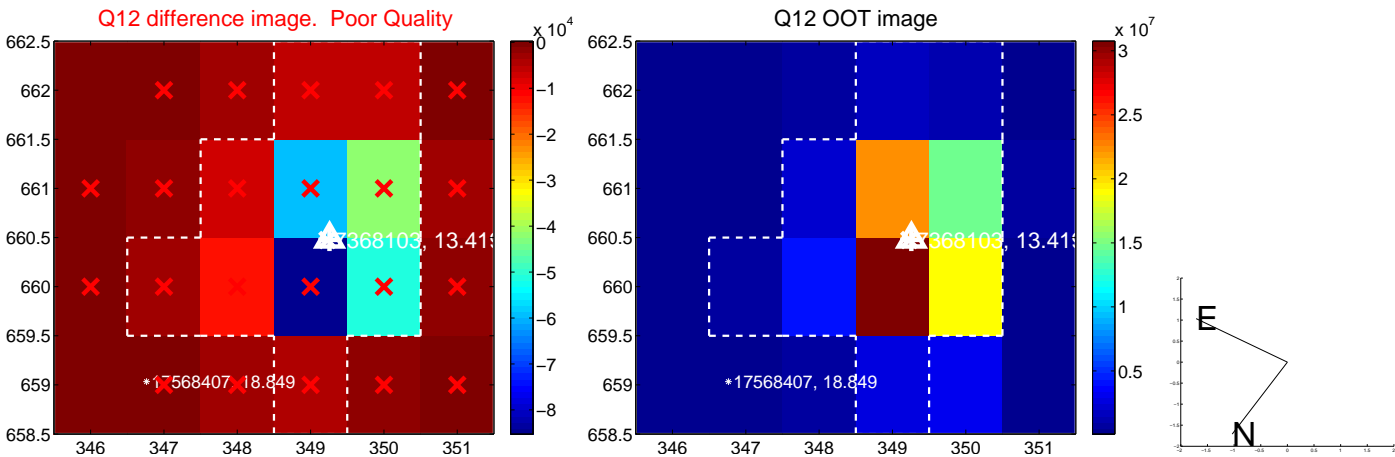
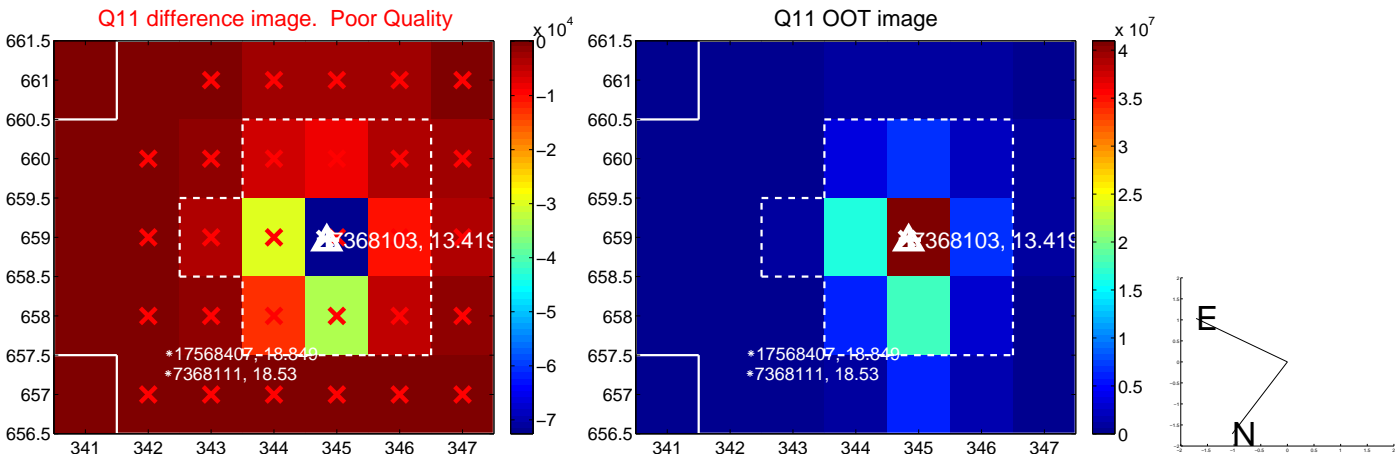
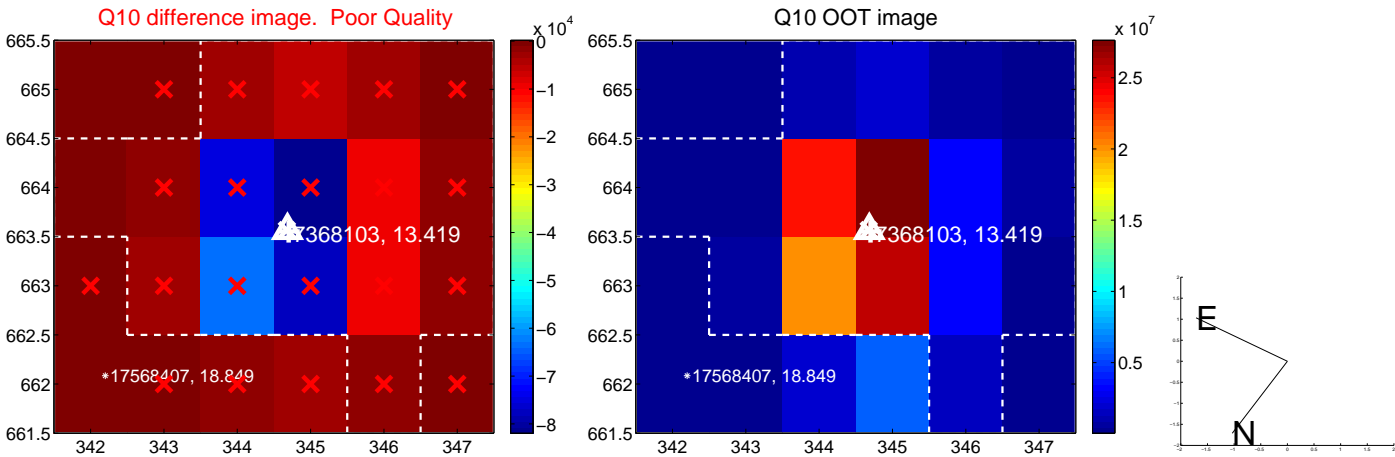
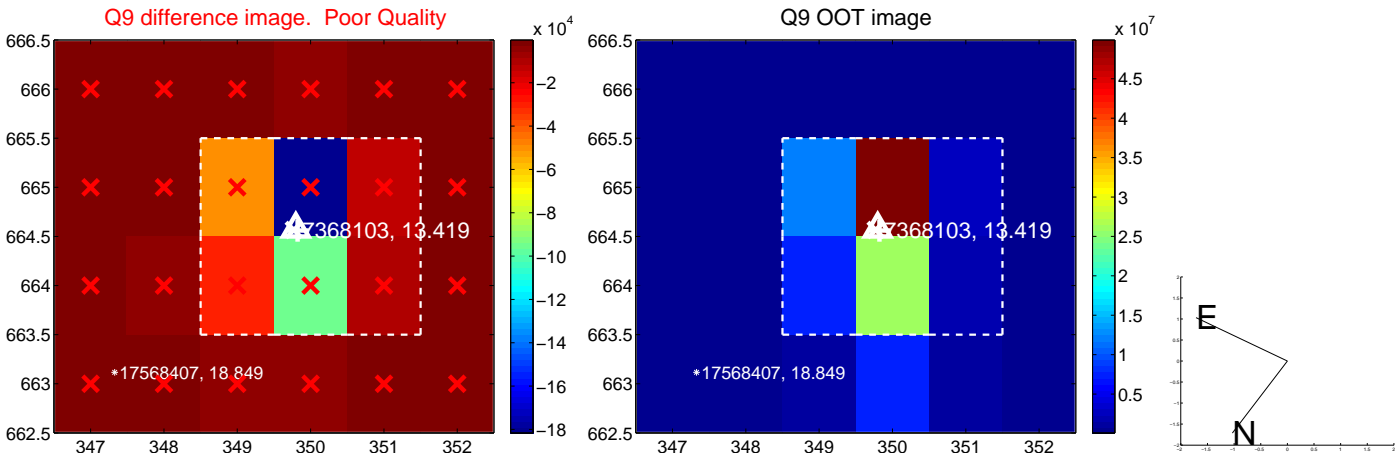
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



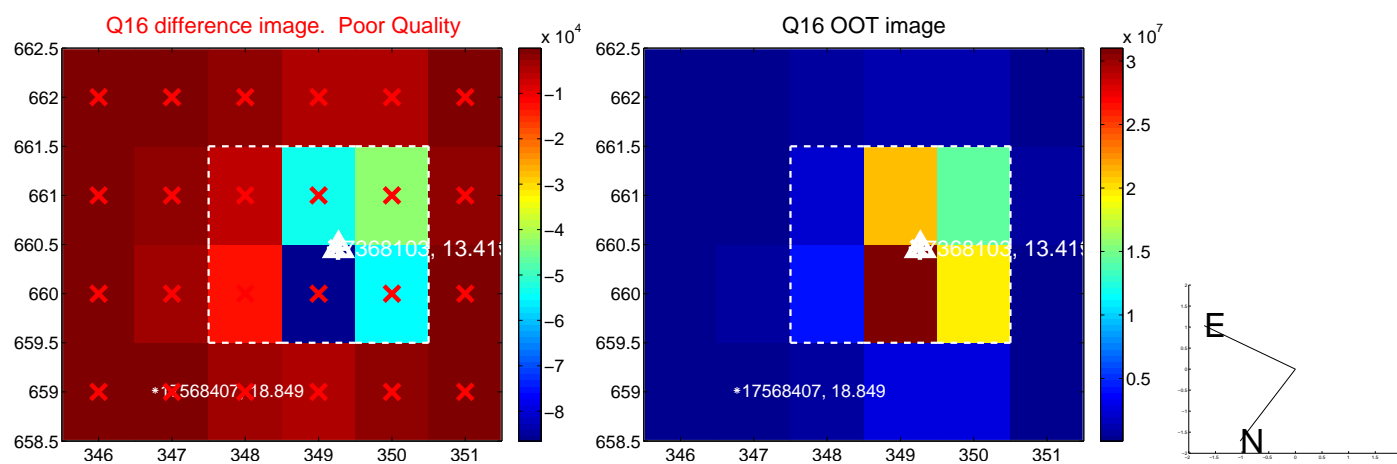
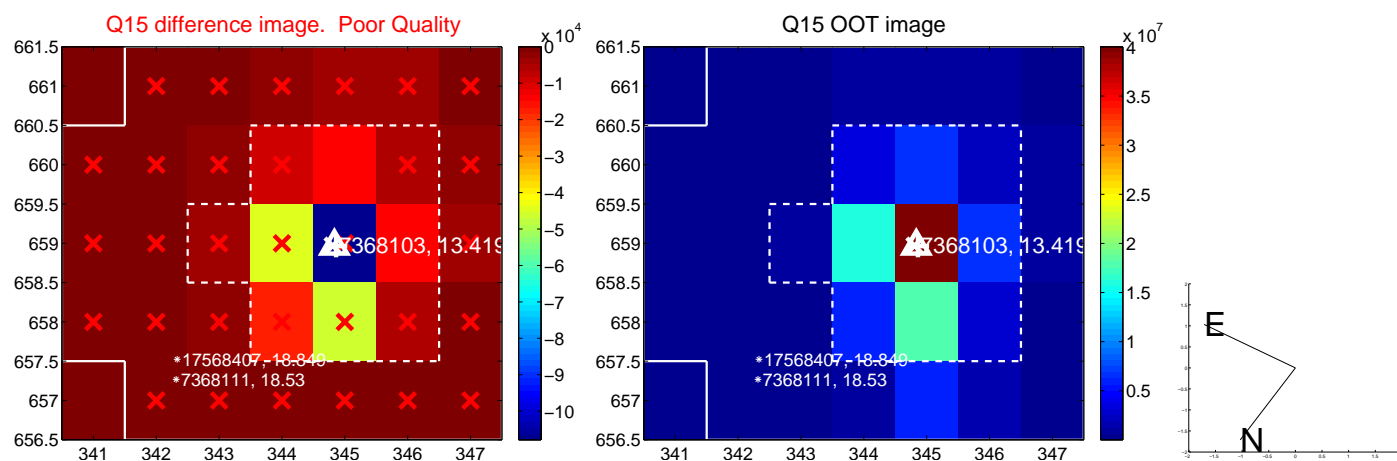
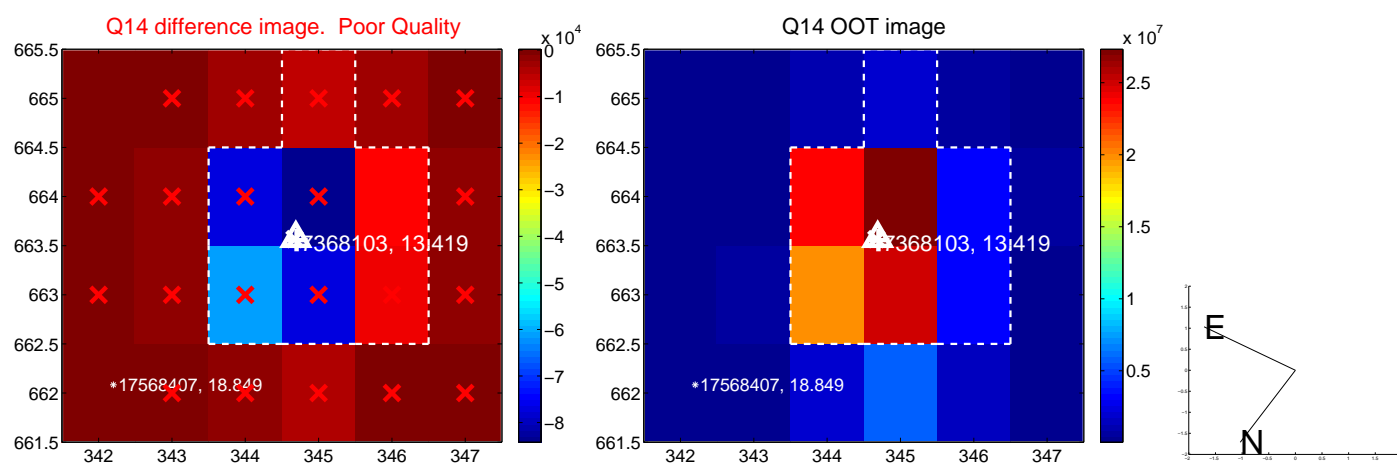
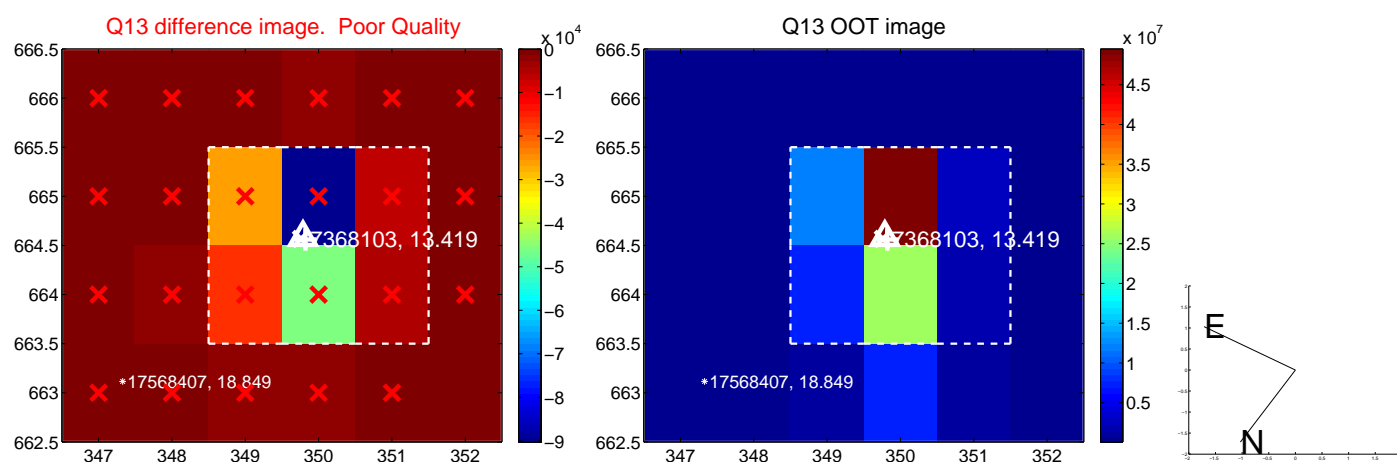
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



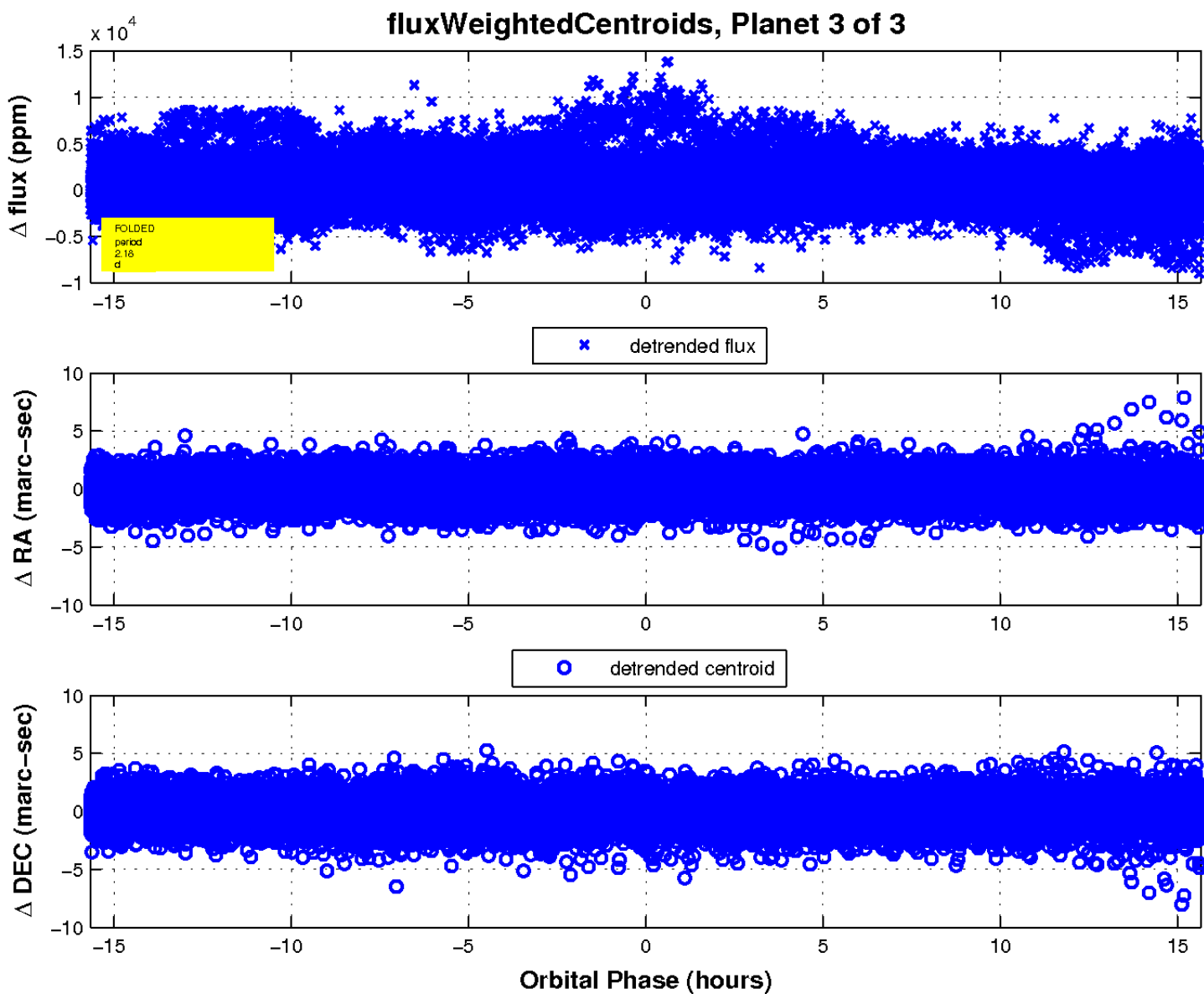
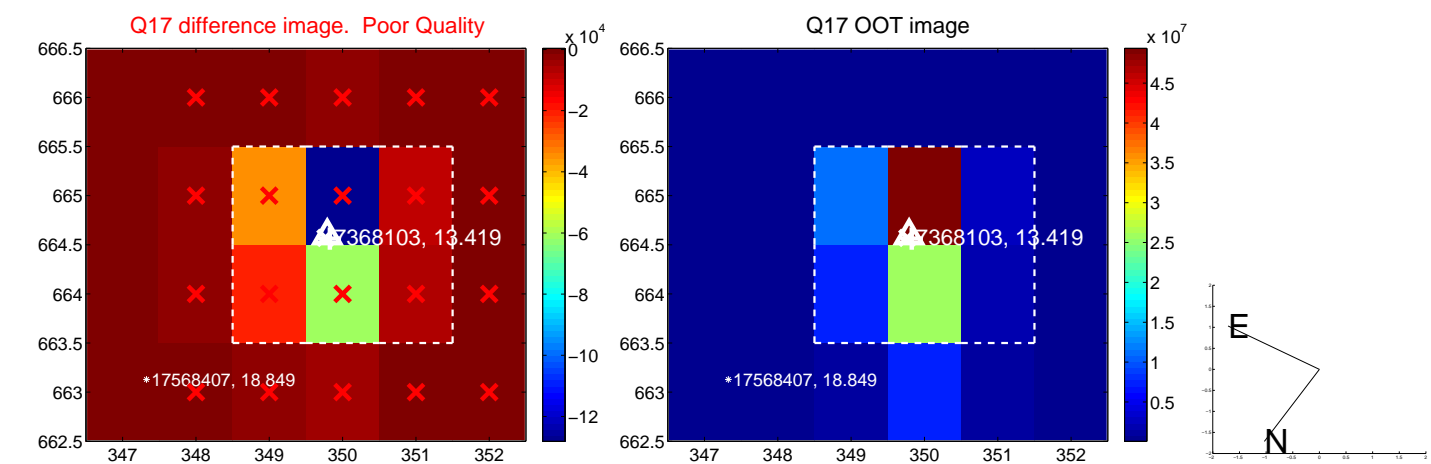
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

