

KIC 010735757

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})
010735757-01	OBS	No	2.155183	133.643581	5.4	16.778	11.5	2.4	4.48	6420	1.05	19050.56
010735757-02	OBS	No	49.578026	134.654261	222.2	0.700	13.8	11.5	4.48	6420	6.83	291.18
010735757-03	OBS	No	35.555988	158.431291	133.7	2.906	15.2	14.7	4.48	6420	6.04	453.60

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010735757-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
010735757-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010735757-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_SATURATED

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

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

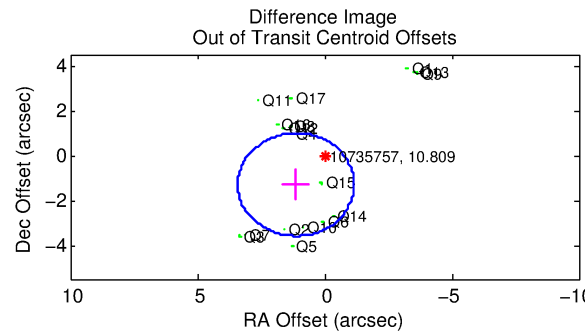
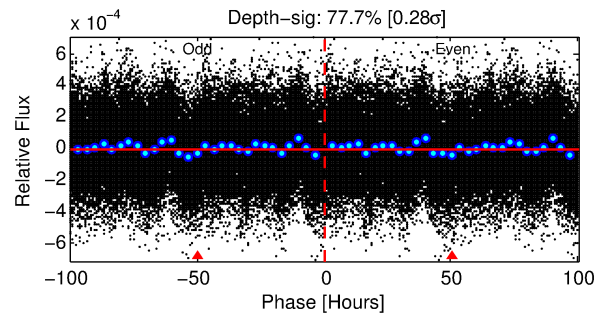
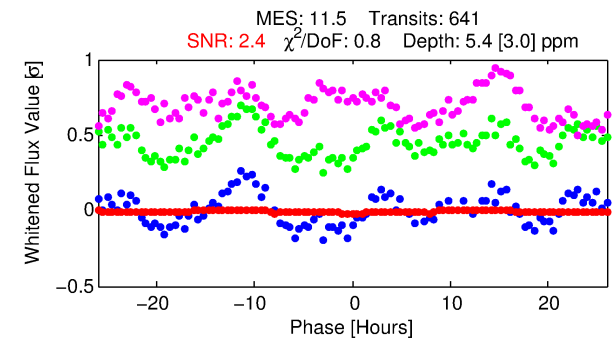
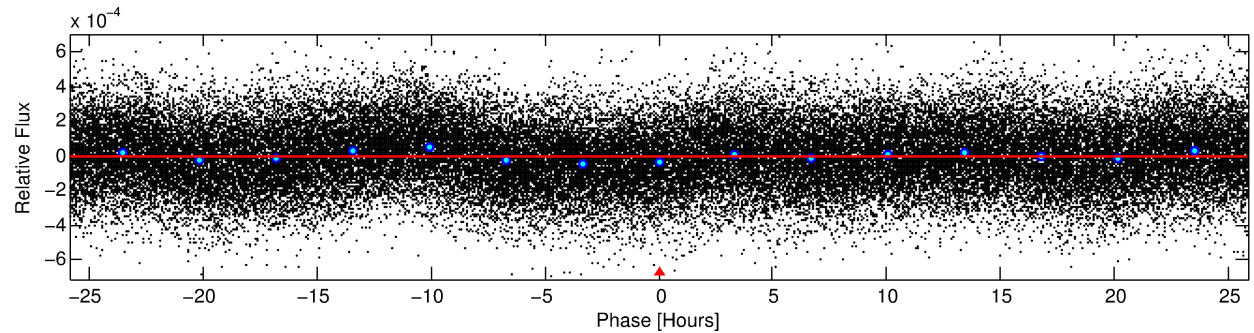
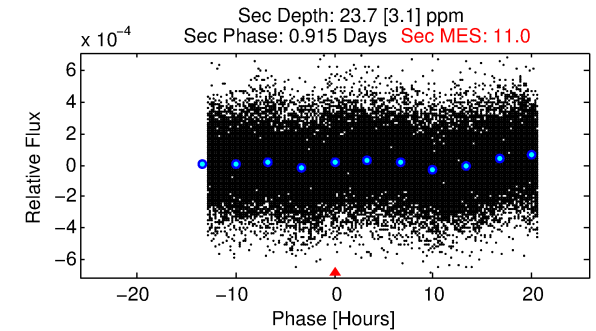
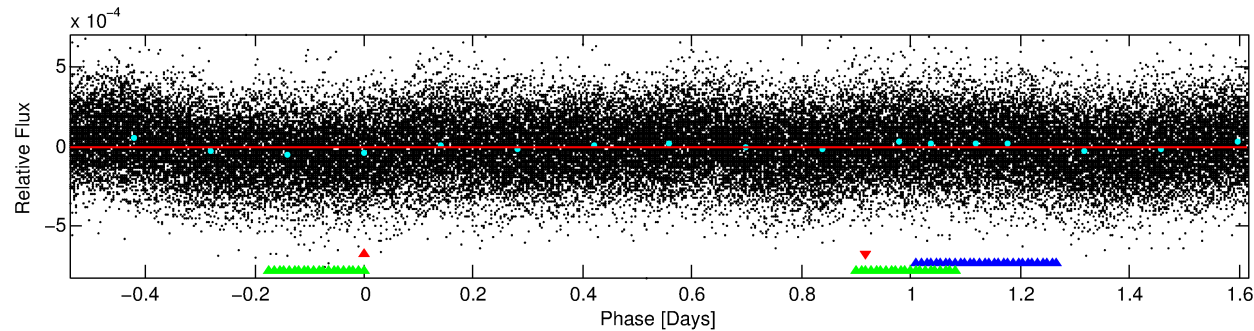
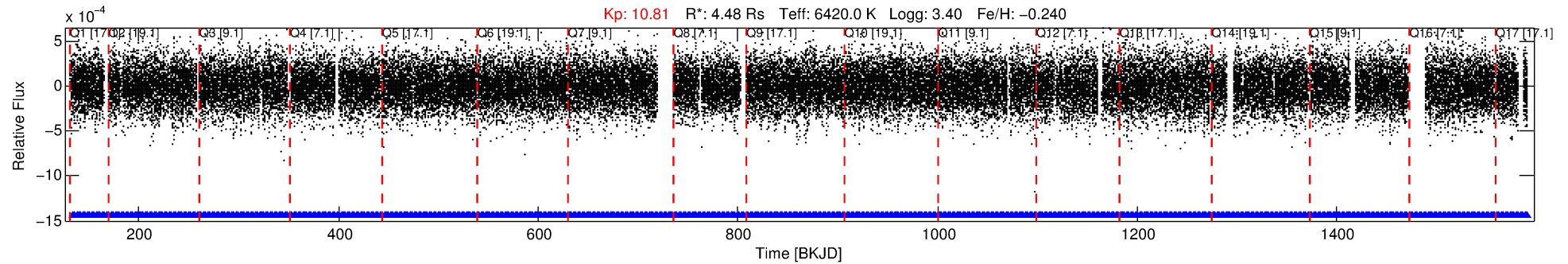
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010735757-01

No Significant Match Found

DV One-Page Summary

KIC: 10735757 Candidate: 1 of 3 Period: 2.155 d



DV Fit Results:

Period = 2.15518 [0.00016] d
Epoch = 133.6436 [0.0296] BKJD
Rp/R* = 0.0021 [0.0065]
a/R* = 1.18 [5.25]
b = 0.01 [1702.26]
Seff = 19050.56 [12658.97]
Teq = 2996 [498] K
Rp = 1.05 [3.21] Re
a = 0.0400 [0.0165] AU
Ag = 19.10 [116.46] [0.16σ]
Teffp = 9682 [14679] K [0.46σ]

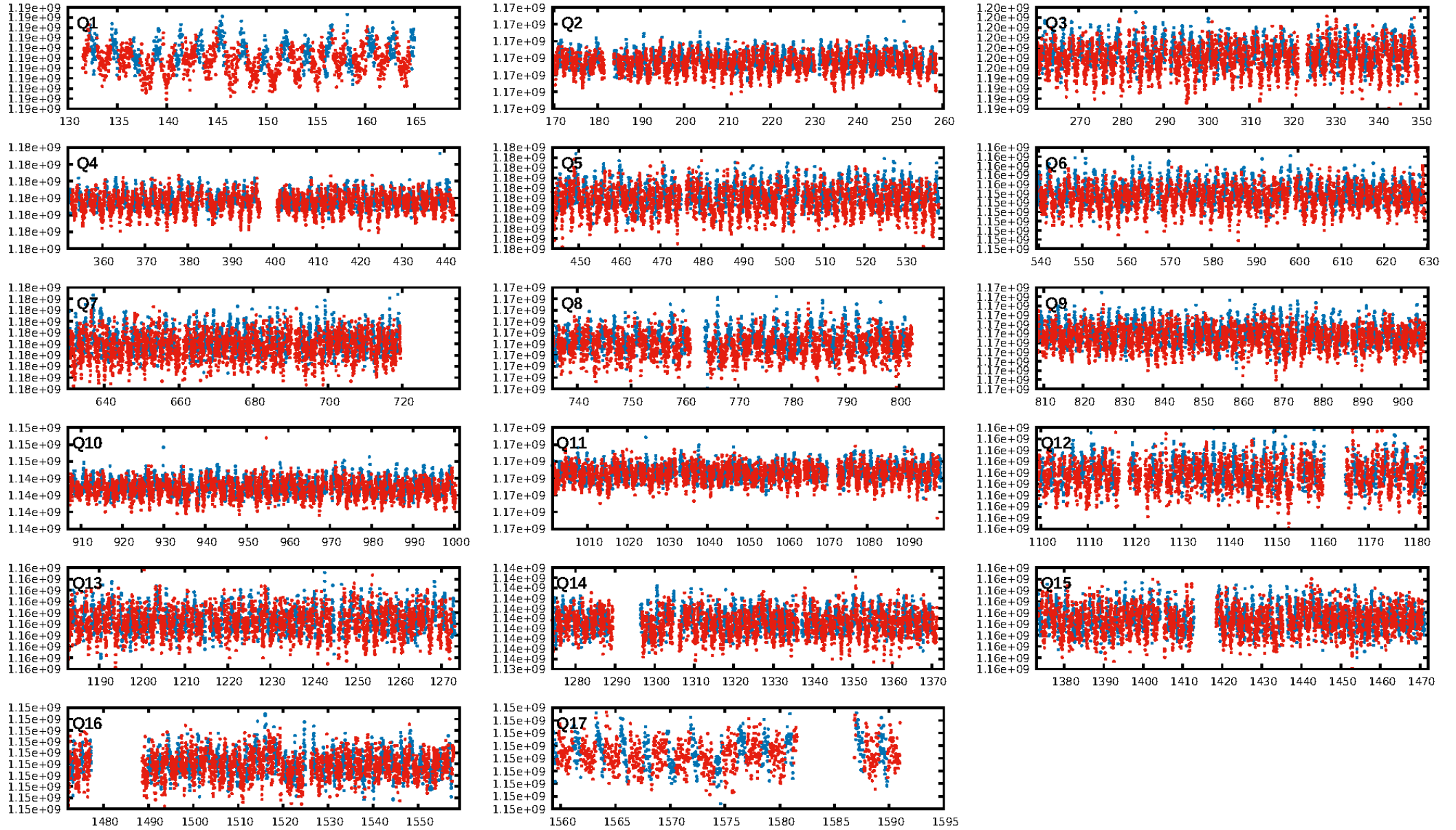
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [47.08σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [612/612]
GhostDiagnostic-chr: 0.2925
Centroid-sig: 0.3%
Centroid-so: 3.944 arcsec [1.83σ]
OotOffset-rm: 1.724 arcsec [2.26σ]
KicOffset-rm: 1.078 arcsec [1.44σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.65 [11/17]
DiffImageOverlap-fno: 1.00 [17/17]

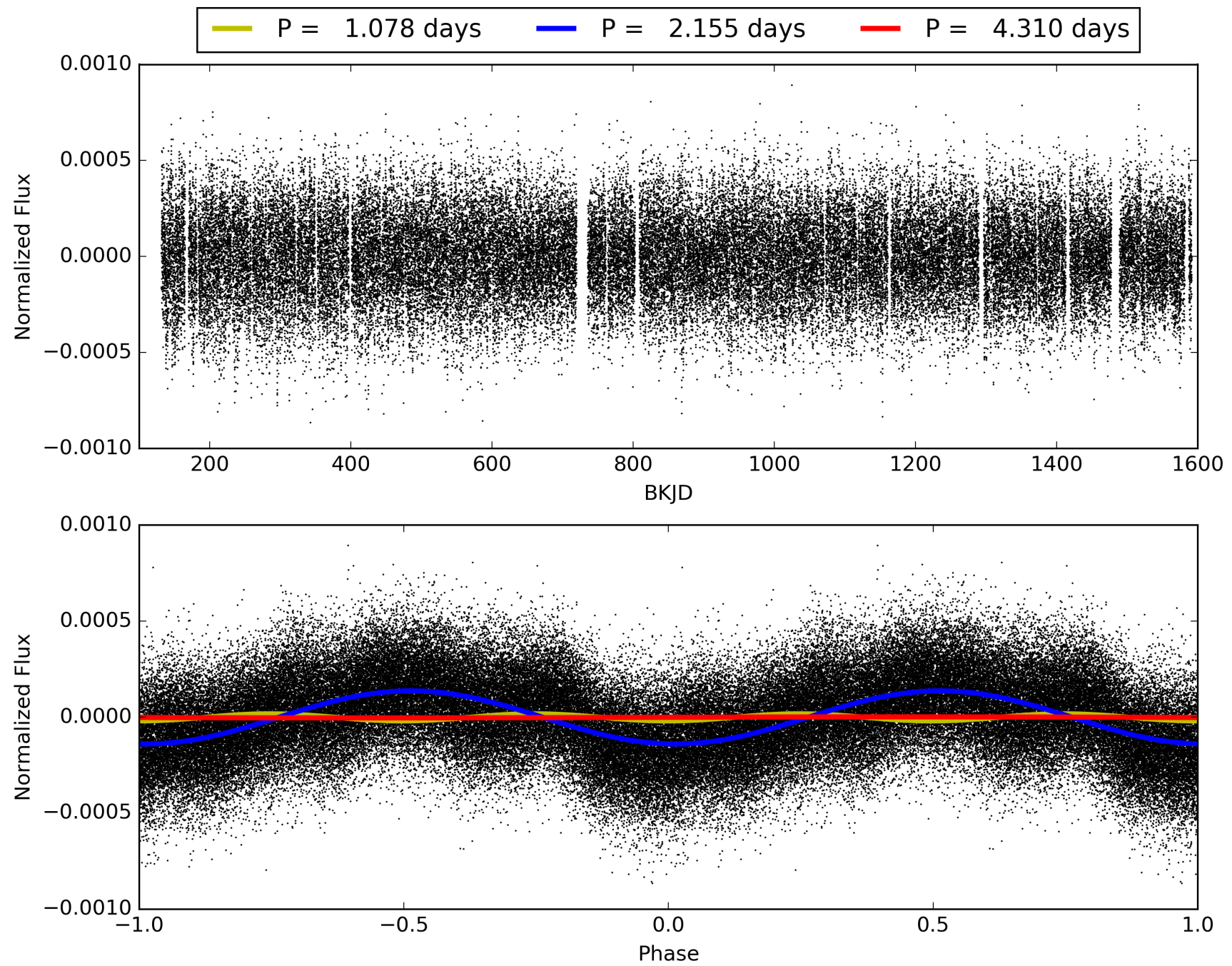
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:54:09 Z

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

TCE 010735757-01, PDC Light Curves

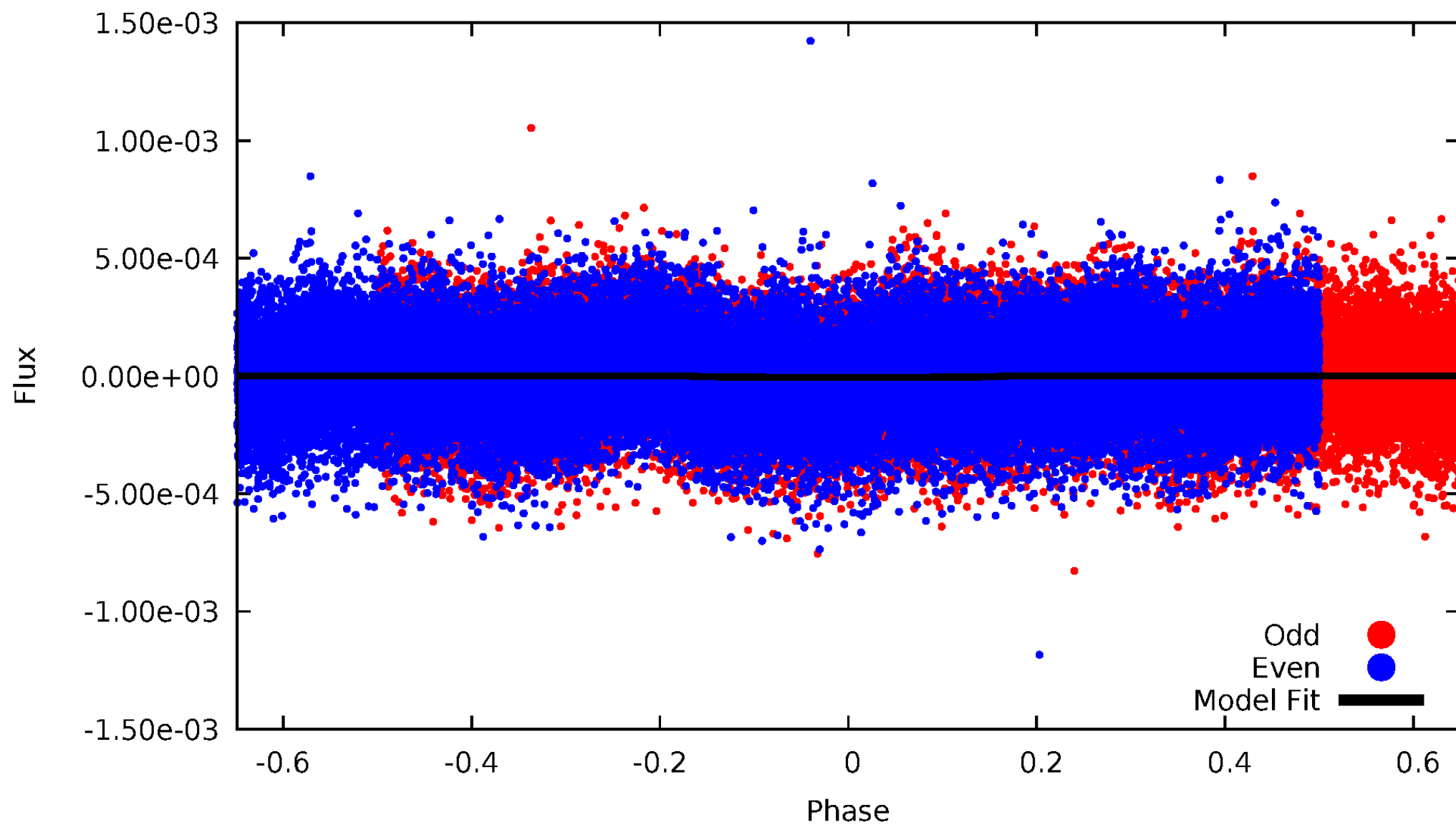


TCE 010735757-01



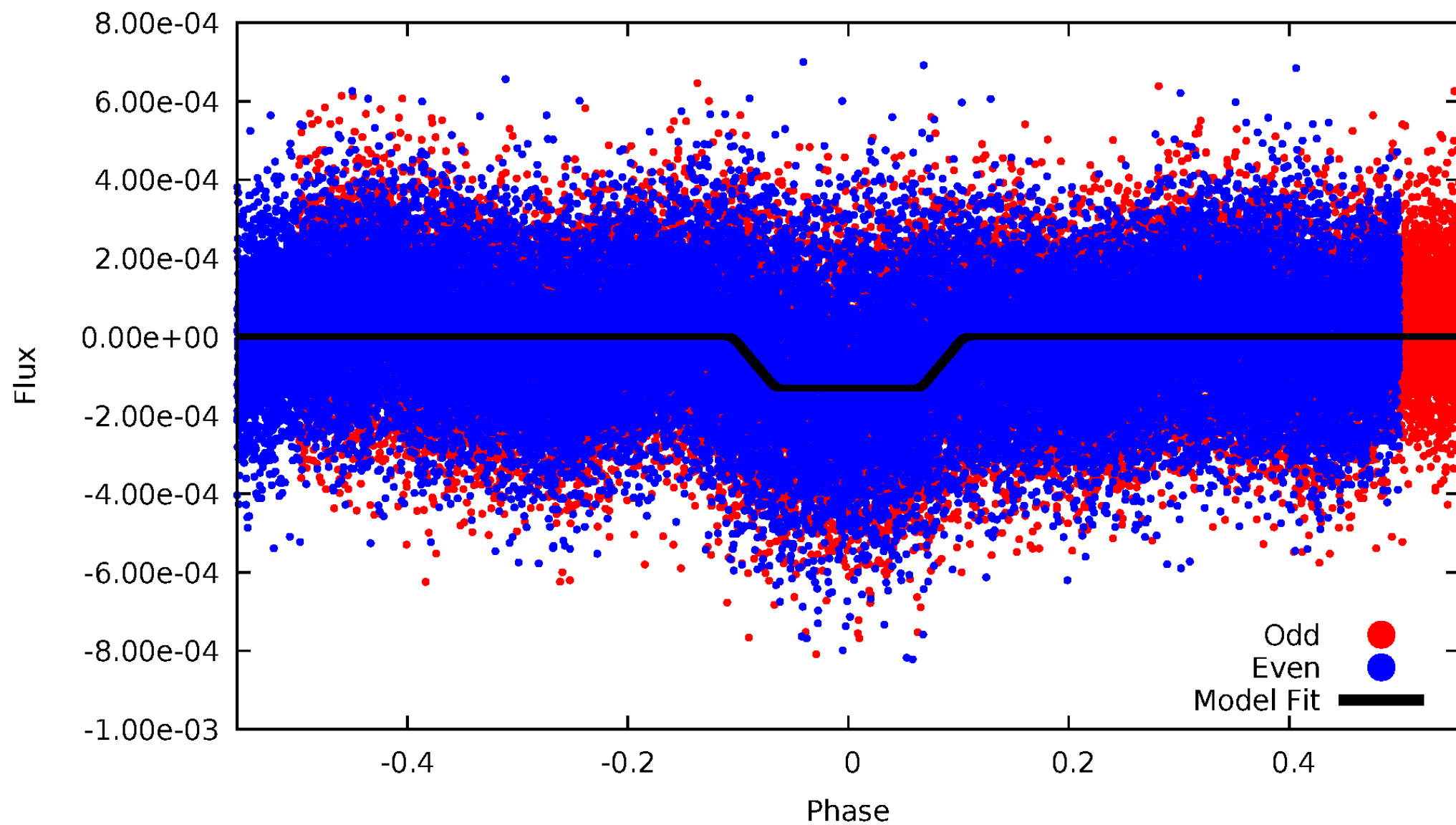
DV Odd/Even

TCE 010735757-01

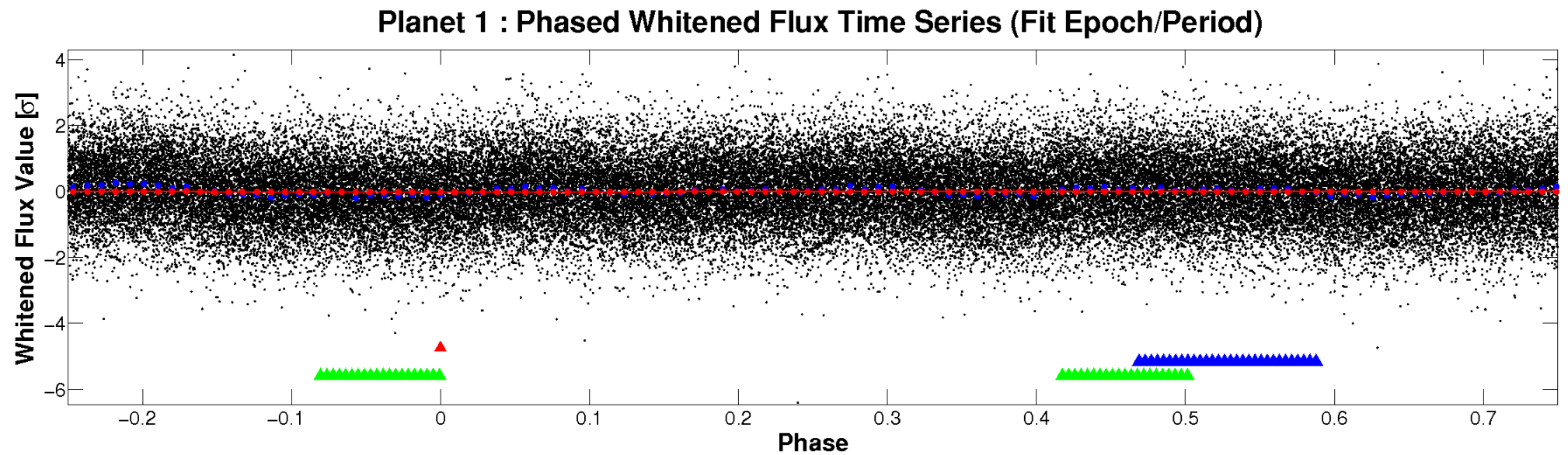
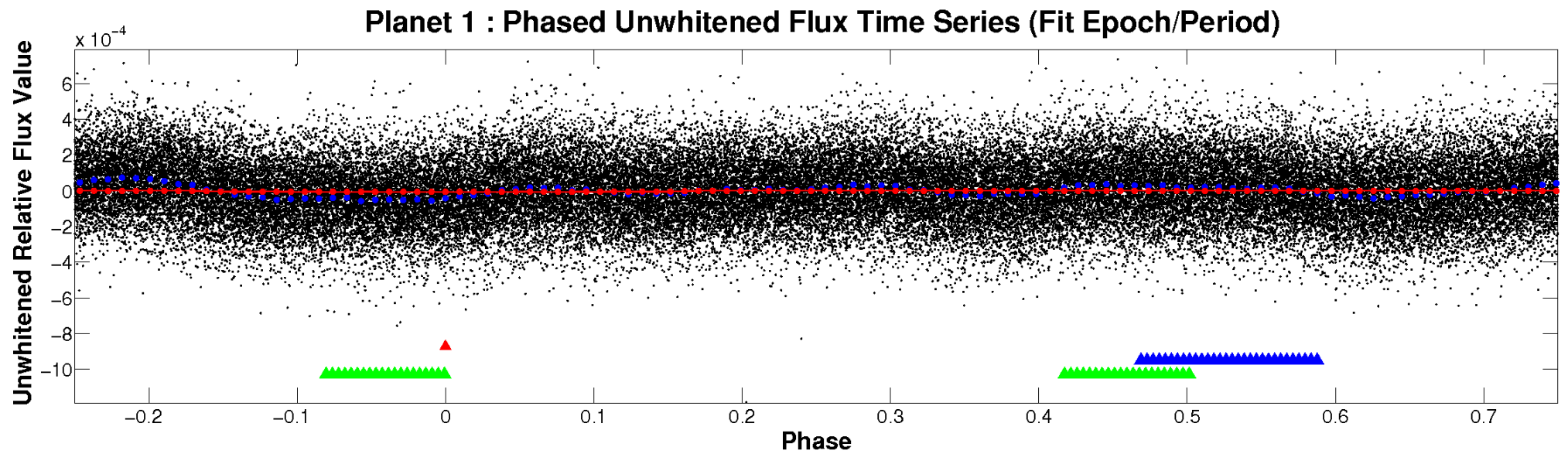


ALT Odd/Even

TCE 010735757-01

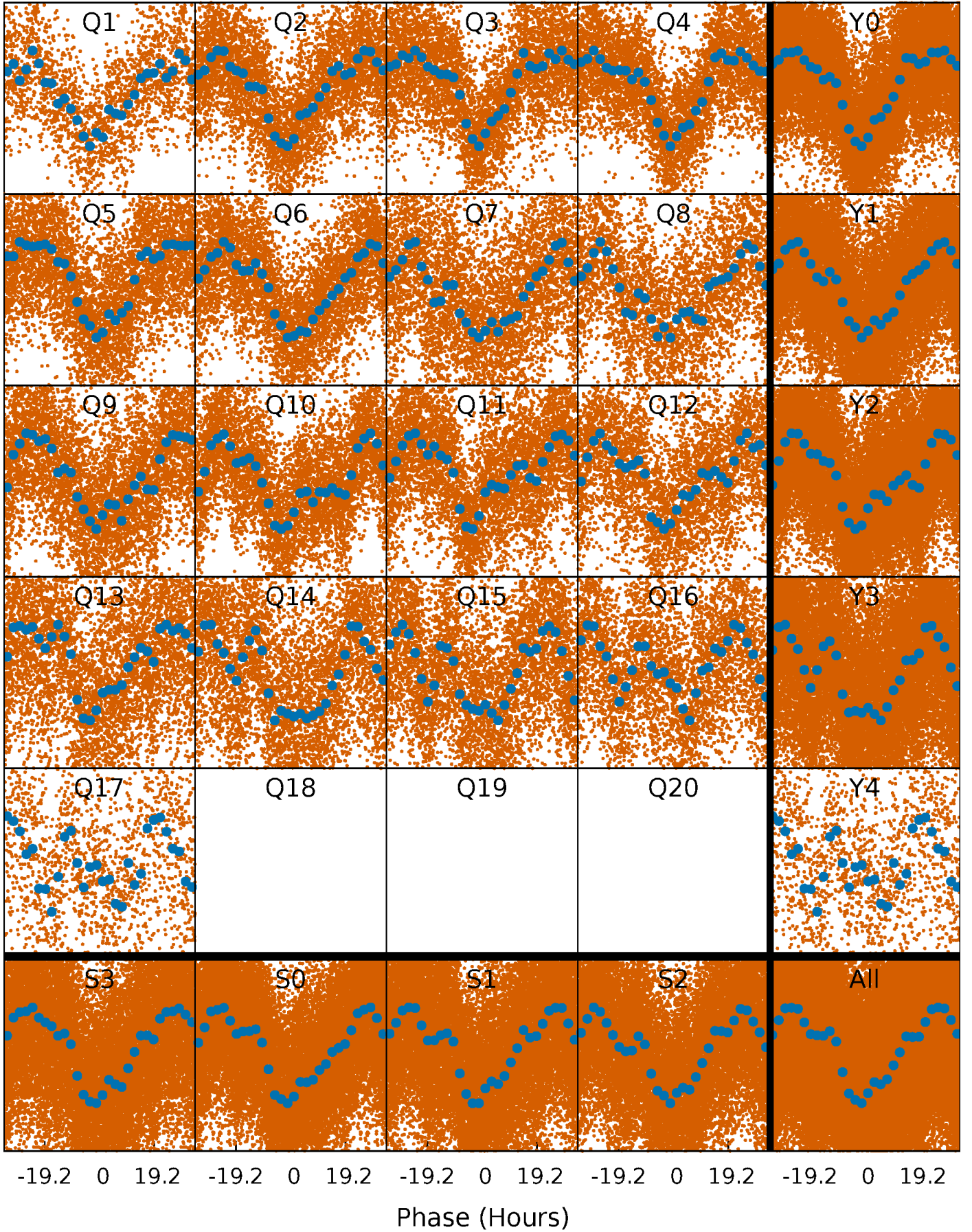


Non-Whitened Vs. Whitened Light Curve



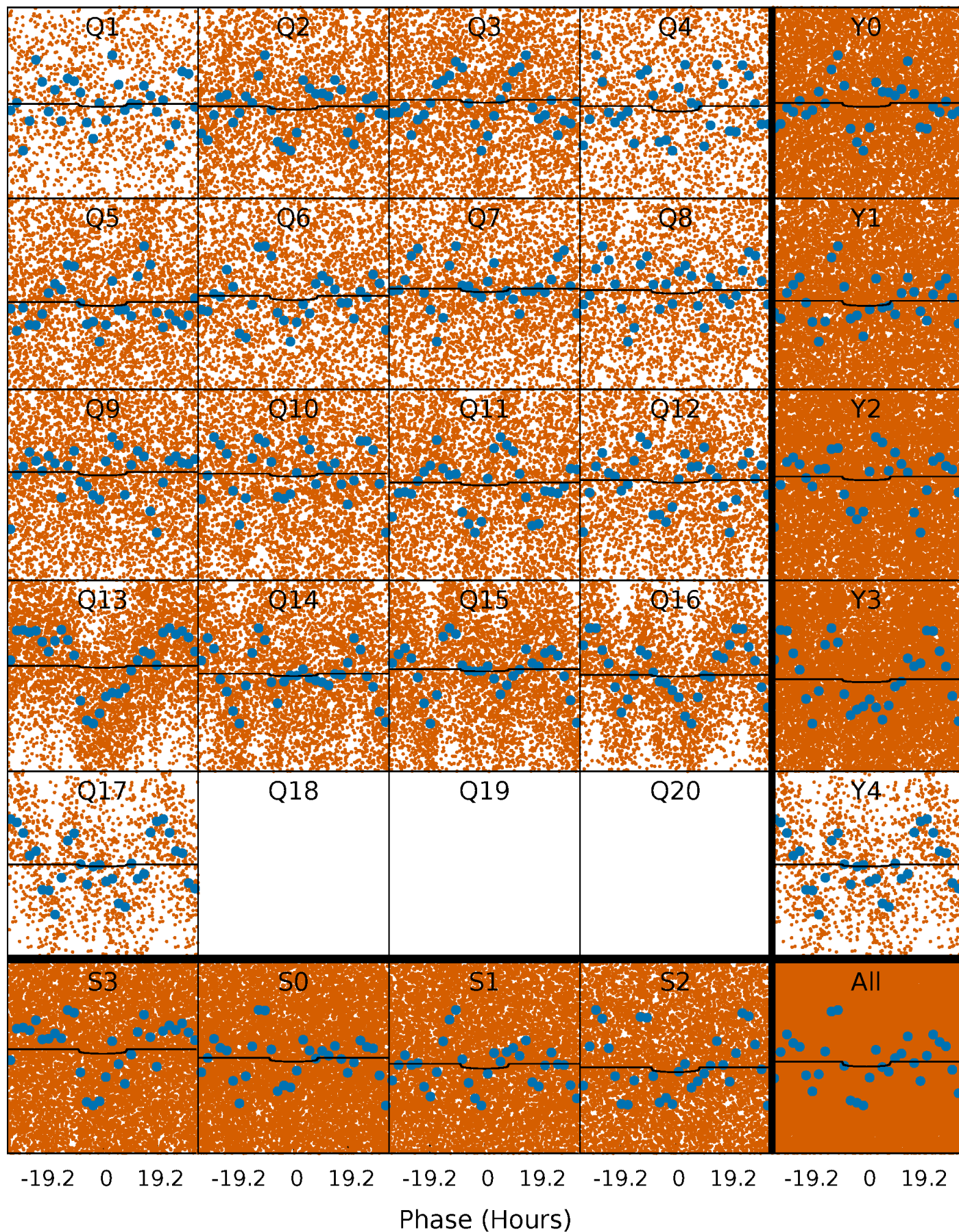
PDC Quarter-Phased Transit Curves

TCE 010735757-01 P= 2.155183 Days $T_0=133.643581$ (BKJD)



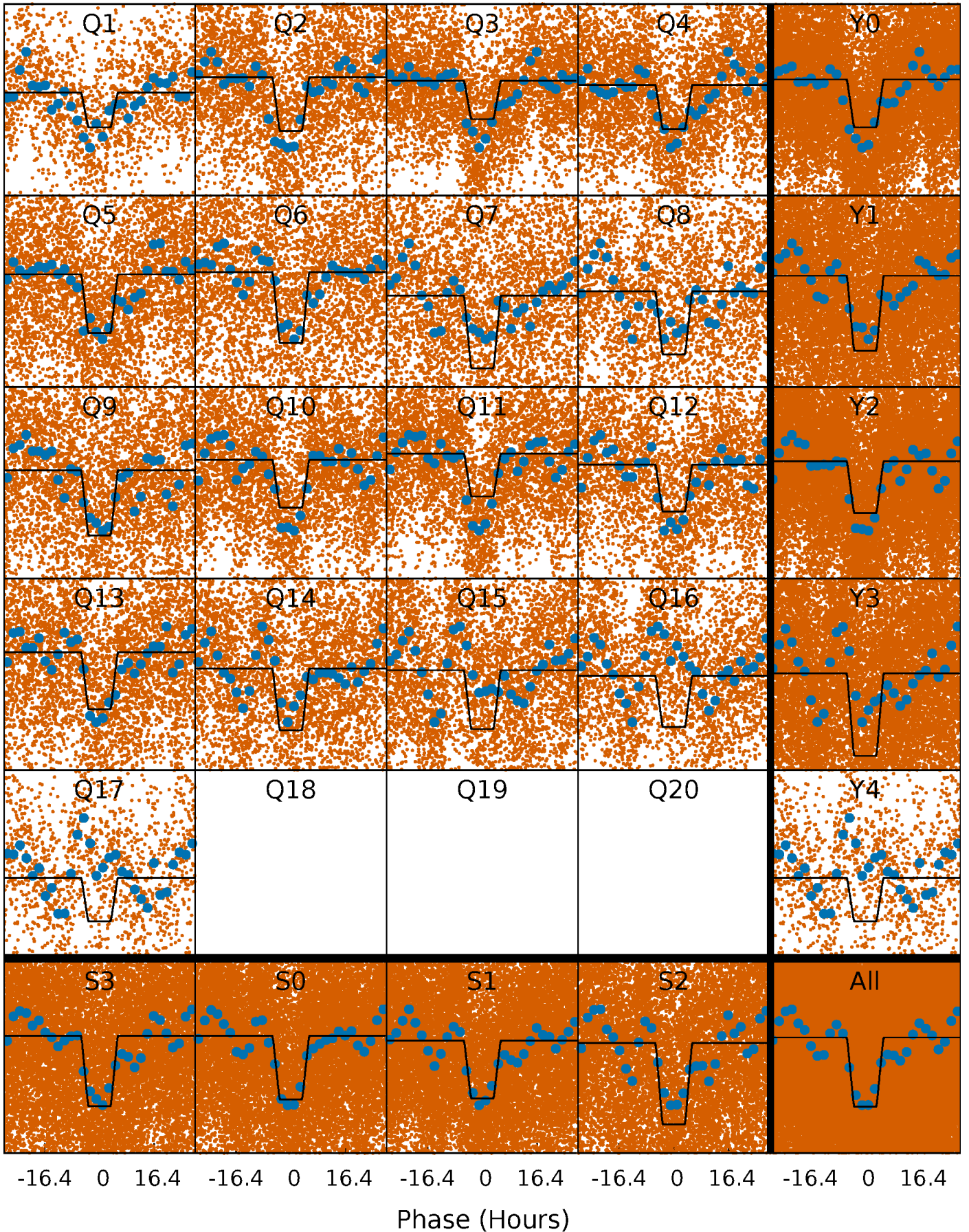
DV Quarter-Phased Transit Curves

TCE 010735757-01 P= 2.155183 Days $T_0=133.643581$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

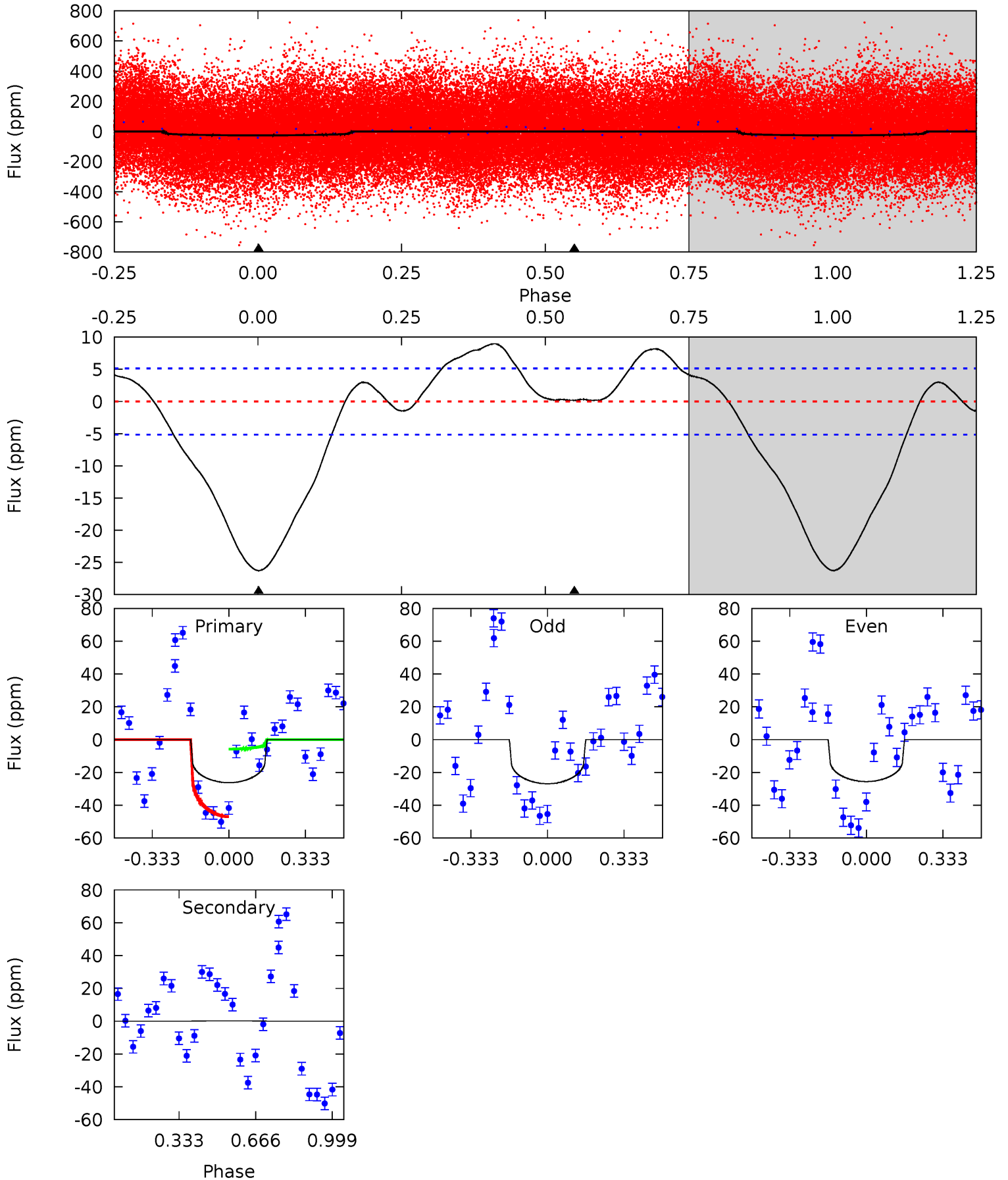
TCE 010735757-01 P= 2.154854 Days $T_0=133.620580$ (BKJD)



DV Model-Shift Uniqueness Test

010735757-01, P = 2.155183 Days, E = 131.488398 Days

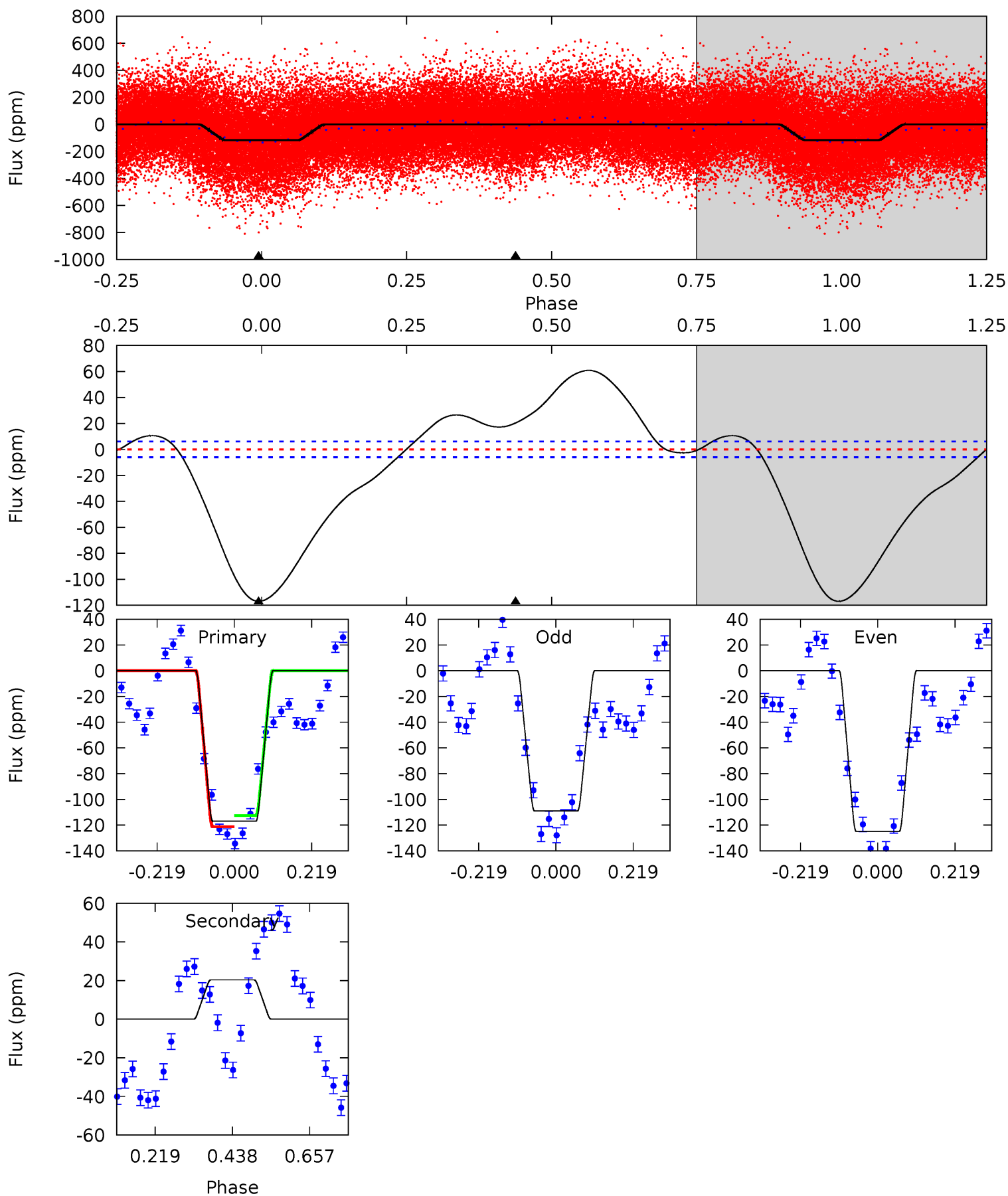
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.0	-0.14	0	0	4.31	0.97	1.91	22.0	22.0	-0.14	-0.14	0.55	1.15	0.25	17.4



Alt Model-Shift Uniqueness Test

010735757-01, P = 2.154854 Days, E = 131.465726 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
85.0	-14.8	0	0	4.40	1.23	4.96	85.0	85.0	-14.8	-14.8	5.80	0.97	0.34	3.17



Stellar Parameters For KIC 010735757

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6420^{+163}_{-163}	$3.401^{+0.384}_{-0.072}$	$-0.240^{+0.350}_{-0.300}$	$4.480^{+0.648}_{-1.945}$	$1.846^{+0.117}_{-0.468}$	$0.029^{+0.102}_{-0.007}$
	+3%/-3%	+11%/-2%	+146%/-125%	+14%/-43%	+6%/-25%	+354%/-23%
Source	PHO1	FLK73	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 010735757-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1	$2.21^{+2.16}_{-1.47}$	4047^{+240}_{-428}	-3739^{+910}_{-599}	$-0.014^{+0.249}_{-0.410}$
Alt.	20 ± 1	$5.12^{+3.13}_{-2.70}$	4065^{+250}_{-431}	-4552^{+403}_{-1281}	$-0.669^{+0.401}_{-2.315}$

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

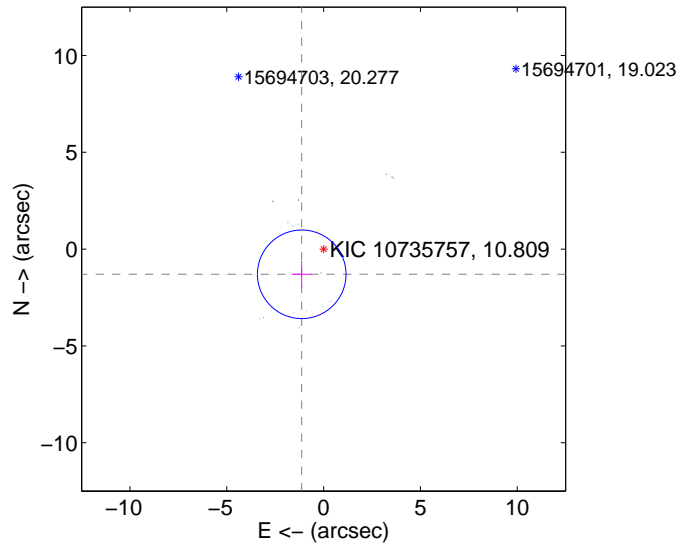
Supplemental centroid analysis for 010735757-01. **Kepler magnitude: 10.81.** Transit SNR 2.43

There are 11 quarters with good PRF difference image offsets

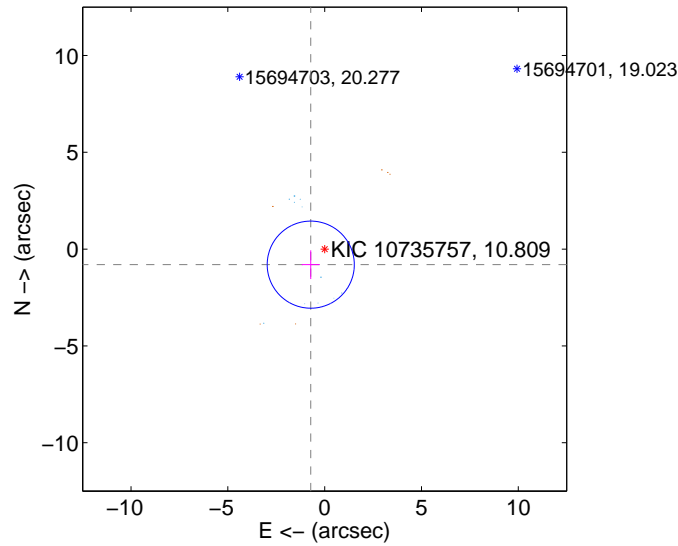
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.724 ± 0.762	2.26	1.130 ± 0.514	-1.301 ± 0.689
PRF-fit source offset from KIC position	1.078 ± 0.750	1.44	0.718 ± 0.465	-0.803 ± 0.742
photometric centroid source offset	3.94 ± 2.16	1.83	-0.10 ± 1.55	-3.94 ± 2.16

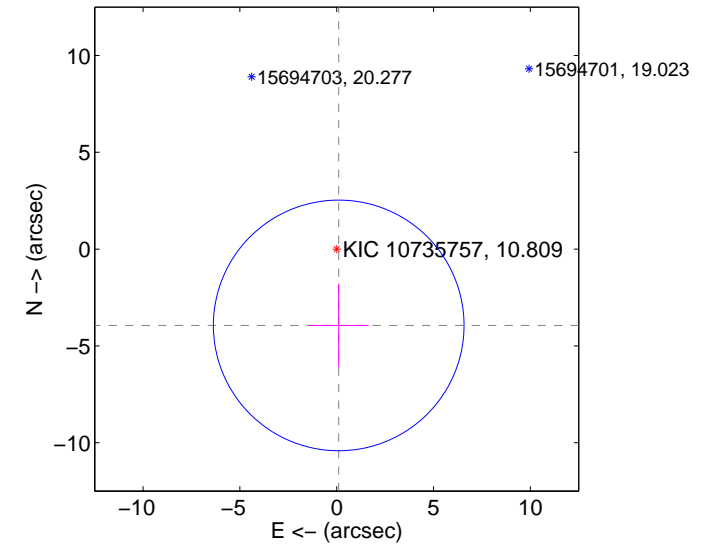
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

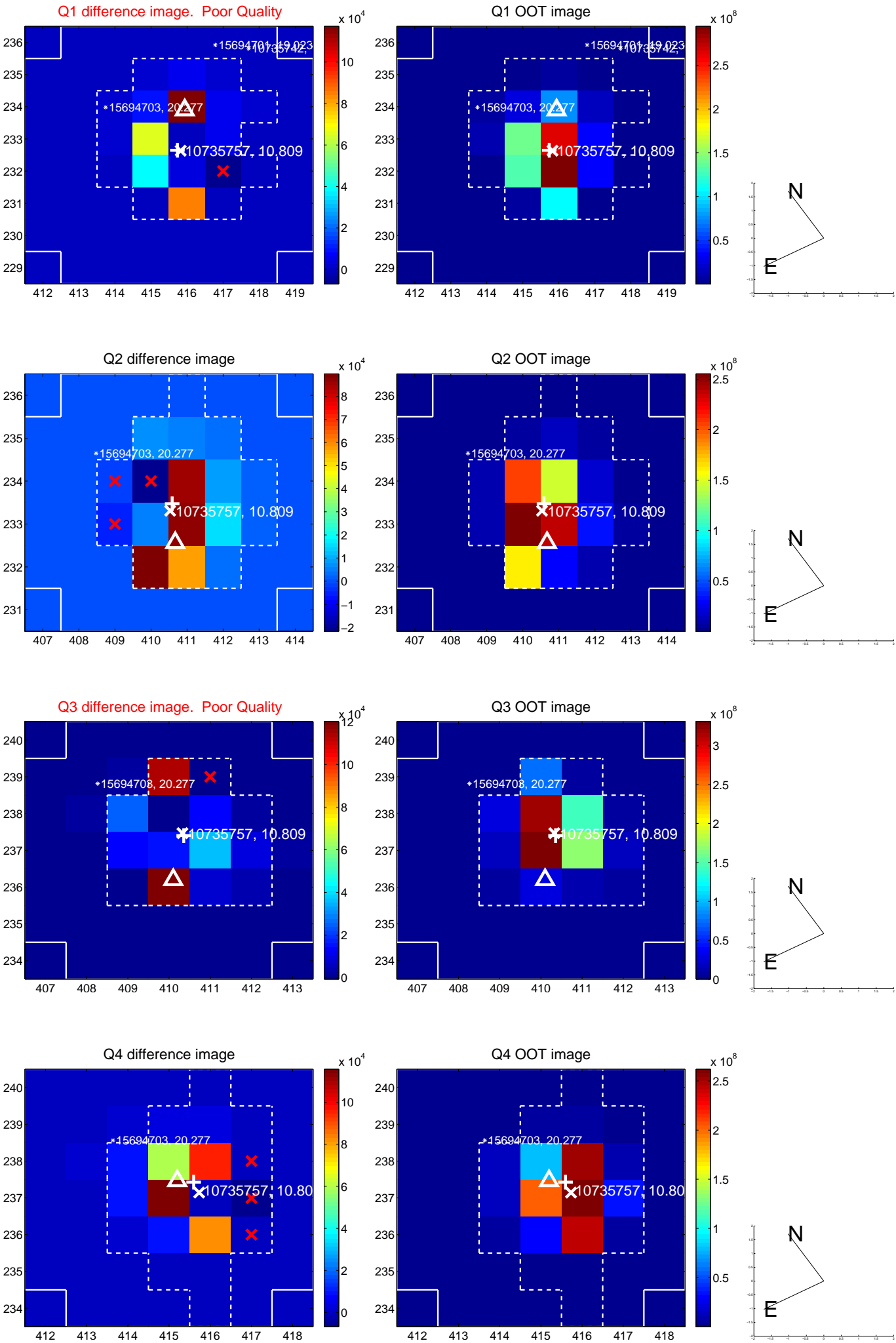


offset from photometric centroids

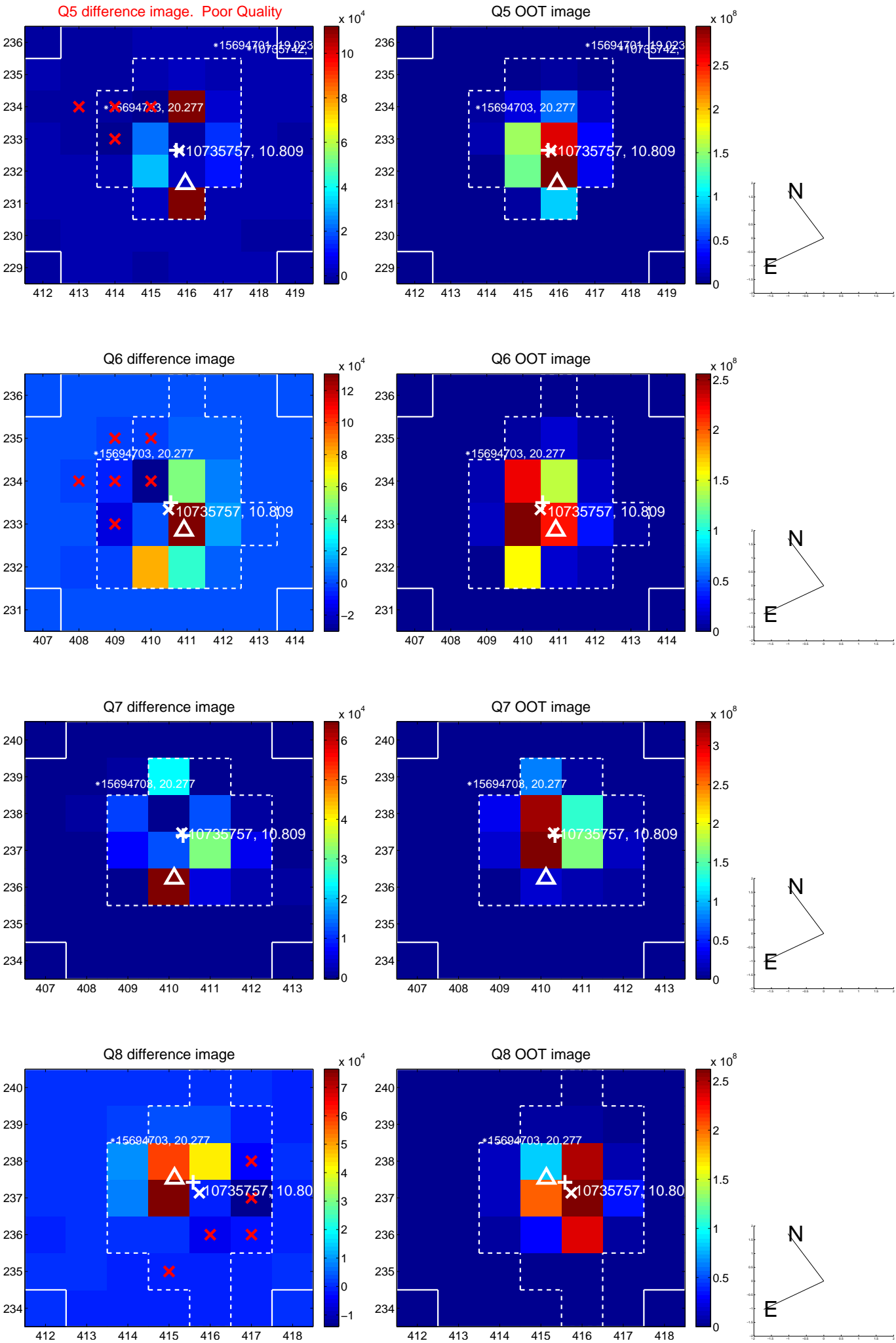


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

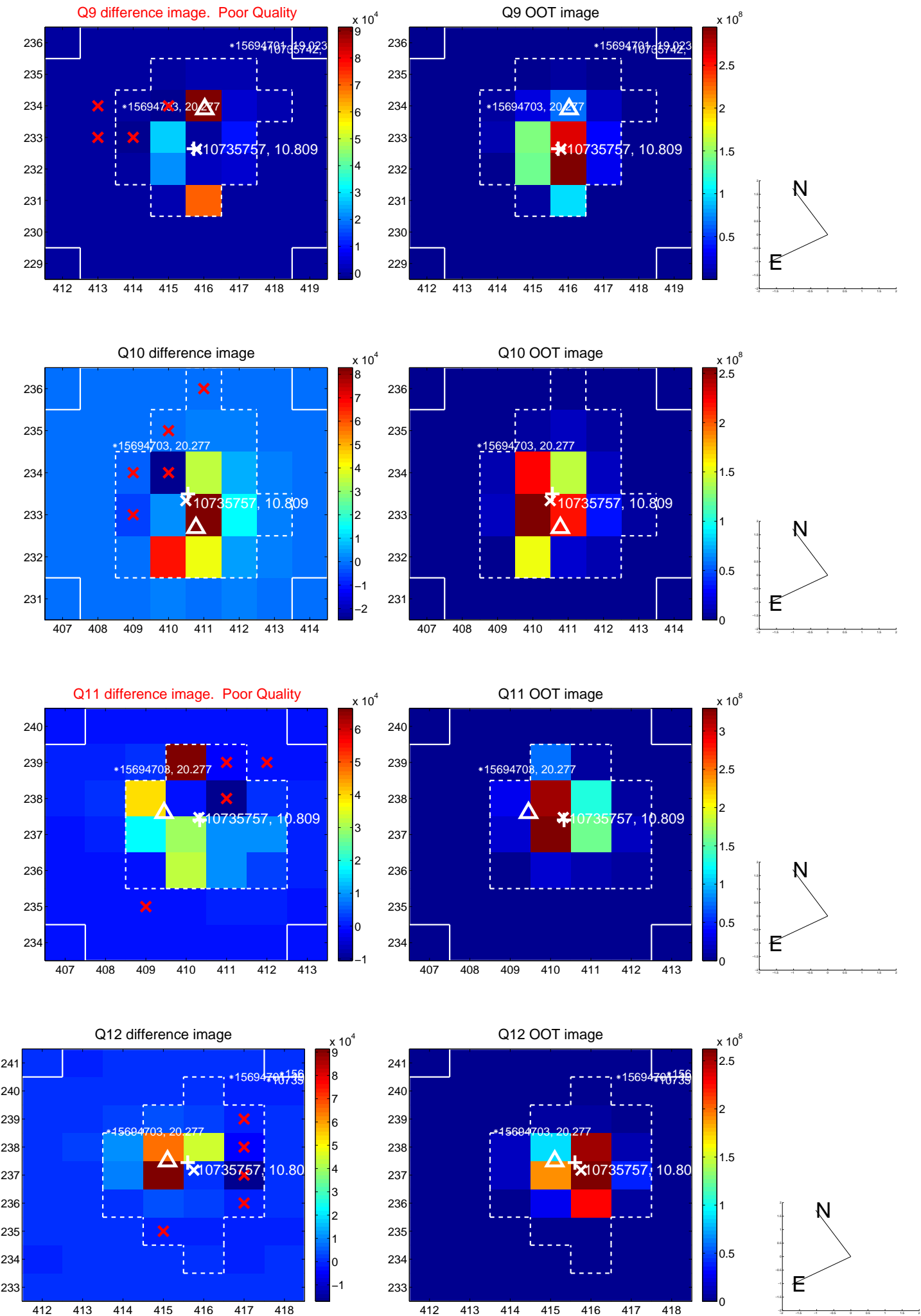
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



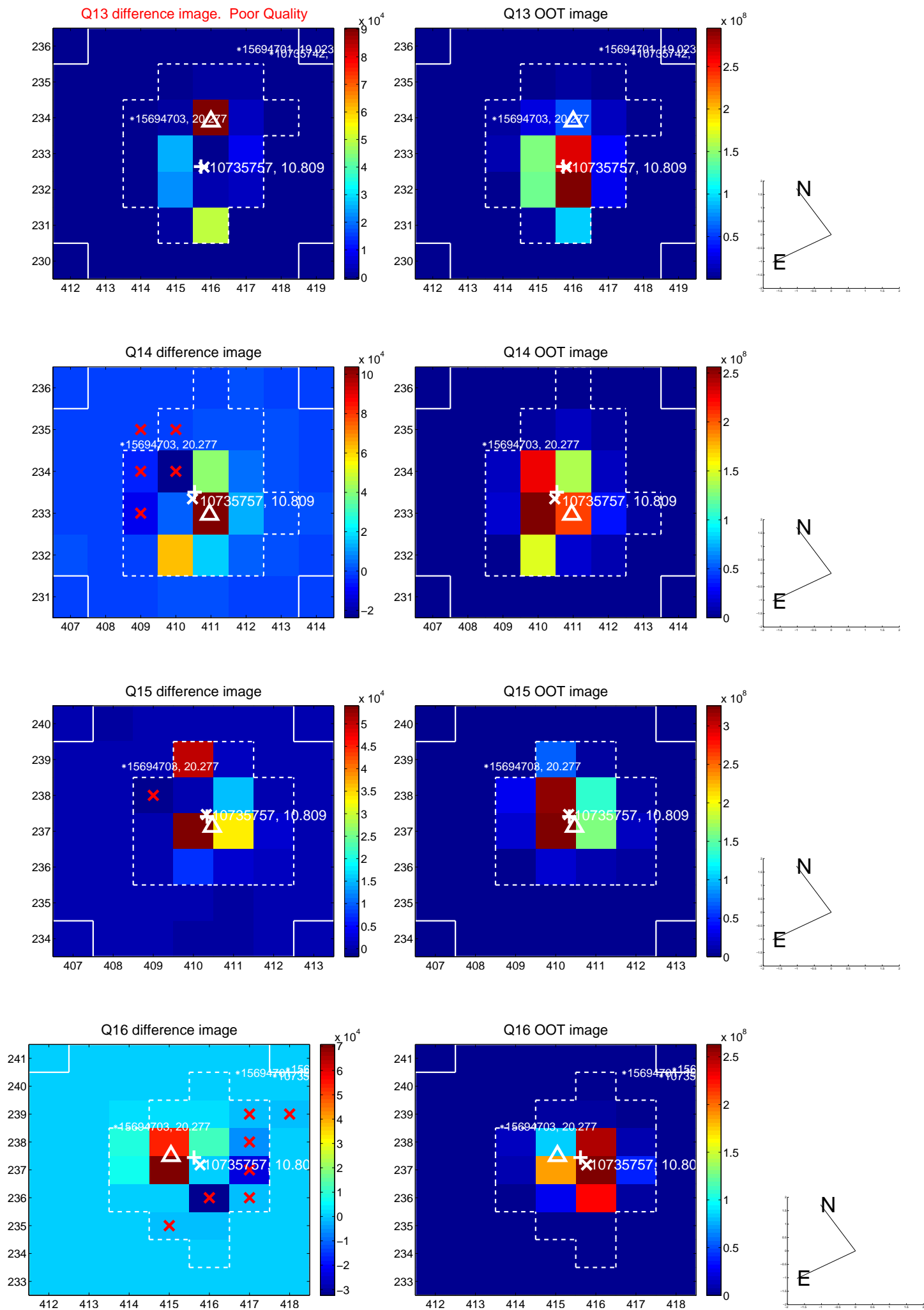
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



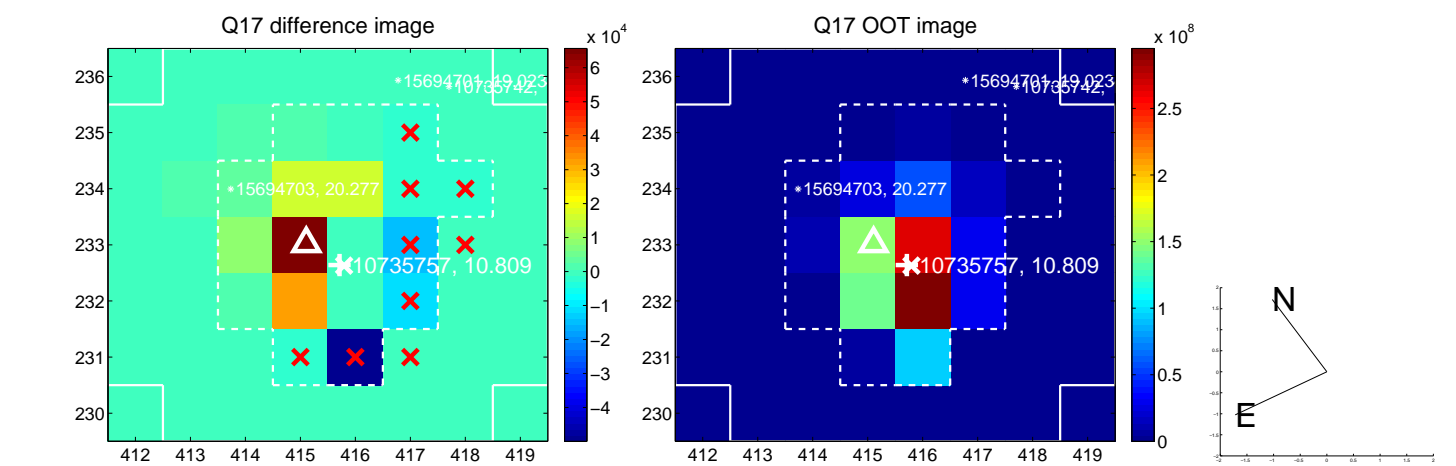
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



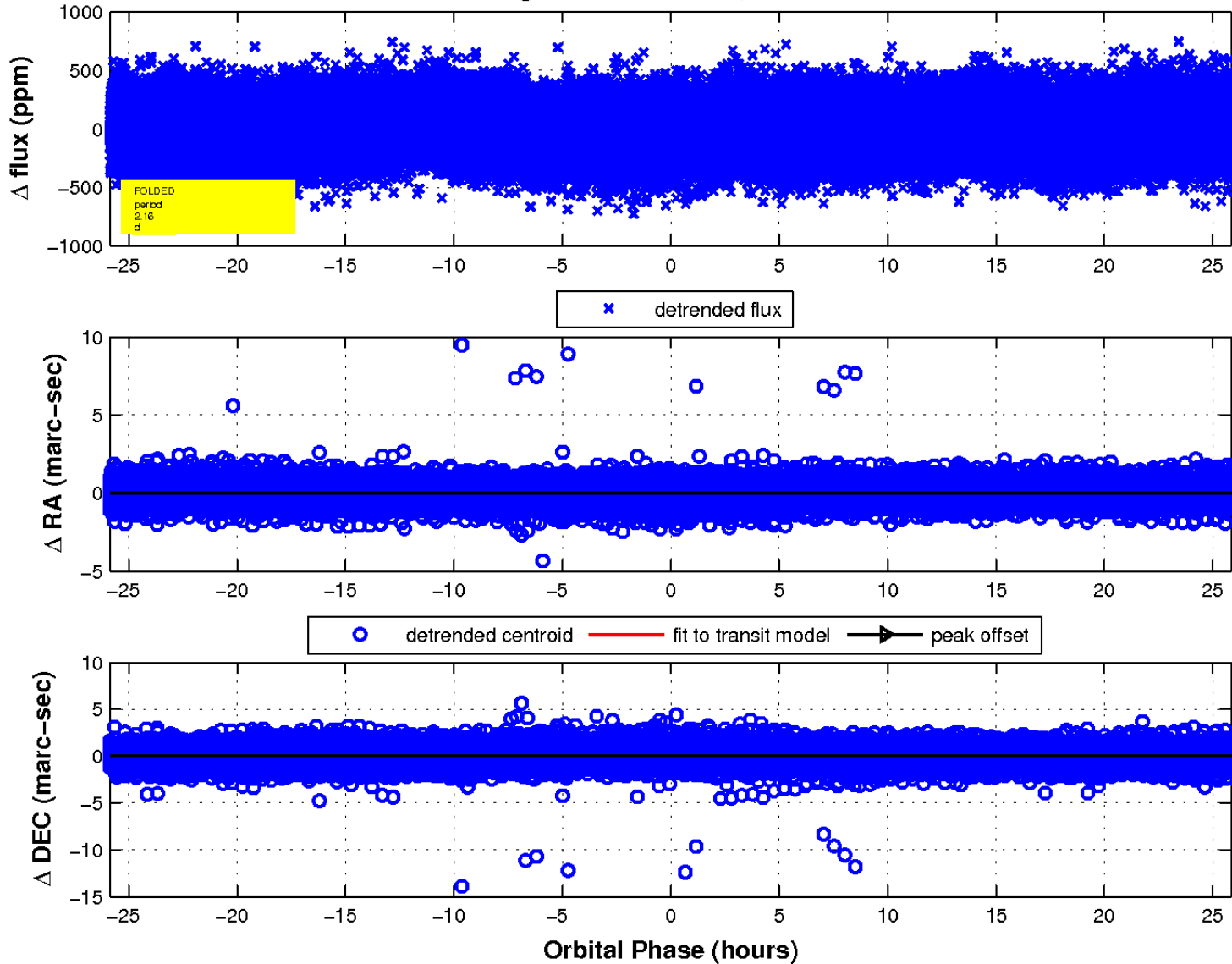
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

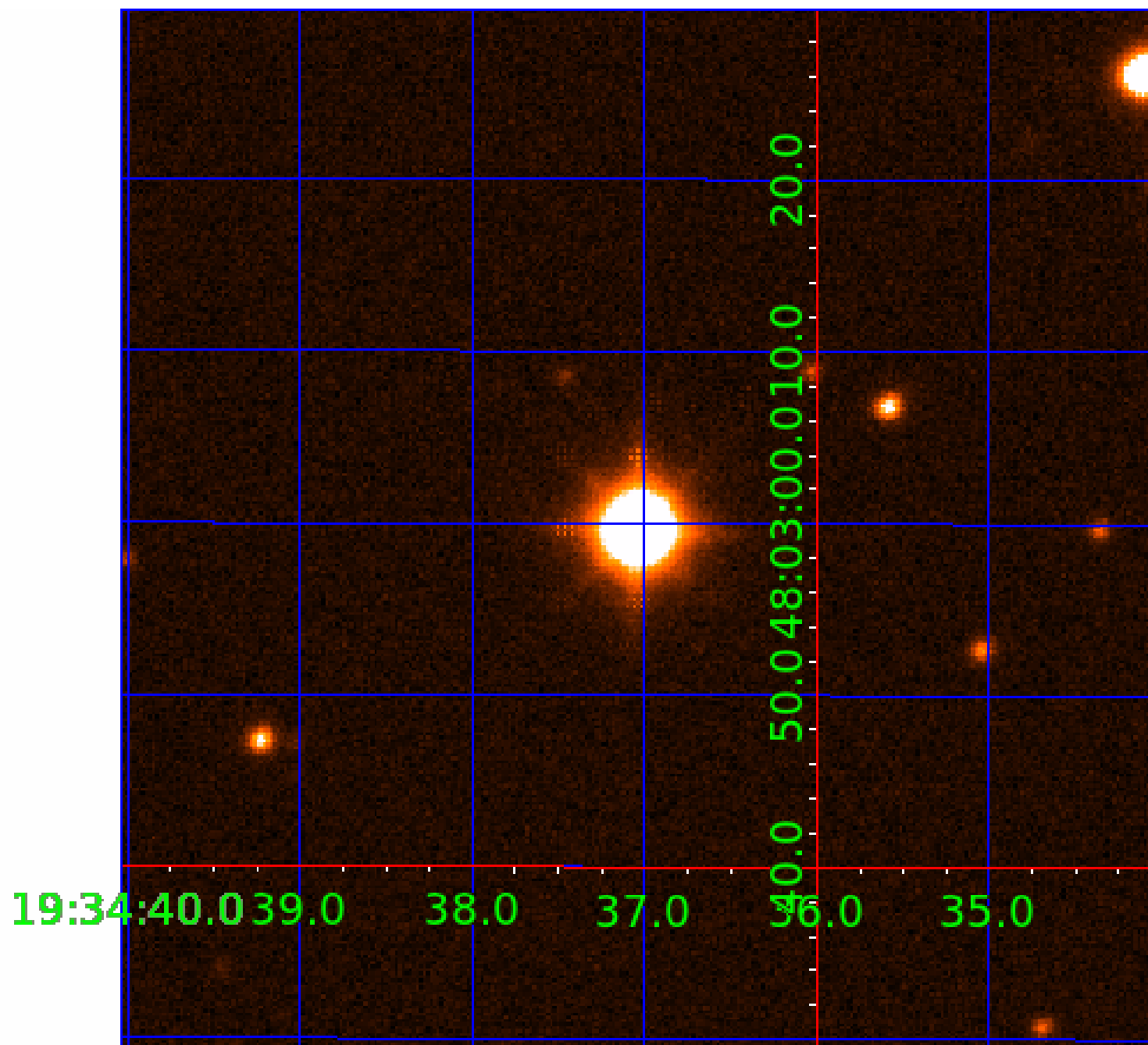


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 010735757

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})
010735757-01	OBS	No	2.155183	133.643581	5.4	16.778	11.5	2.4	4.48	6420	1.05	19050.56
010735757-02	OBS	No	49.578026	134.654261	222.2	0.700	13.8	11.5	4.48	6420	6.83	291.18
010735757-03	OBS	No	35.555988	158.431291	133.7	2.906	15.2	14.7	4.48	6420	6.04	453.60

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010735757-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
010735757-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010735757-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_SATURATED

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

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

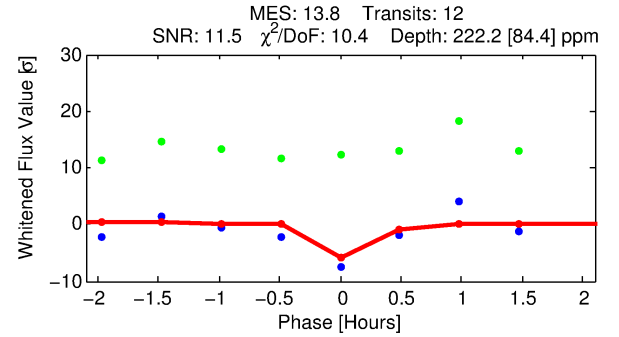
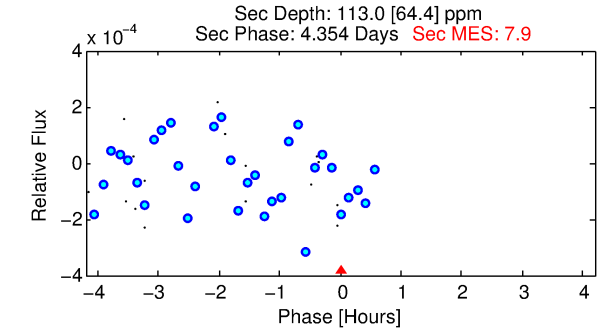
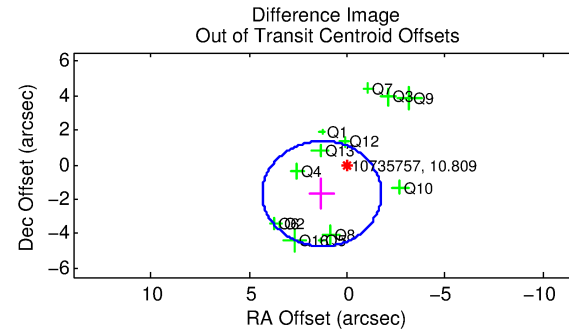
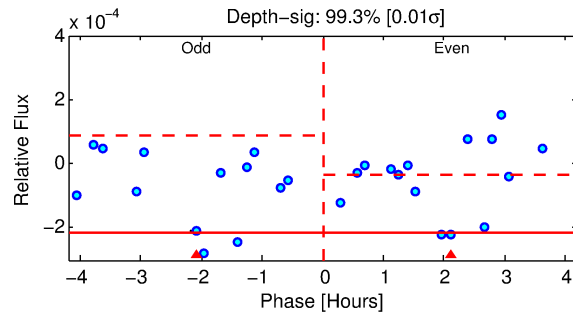
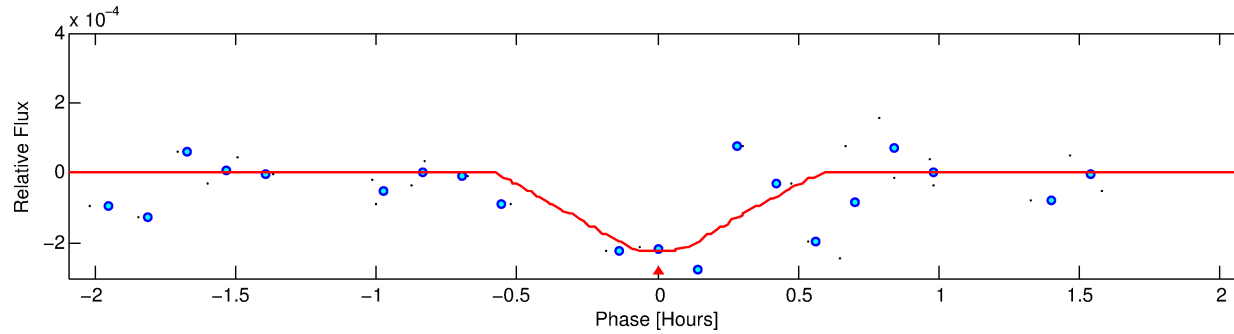
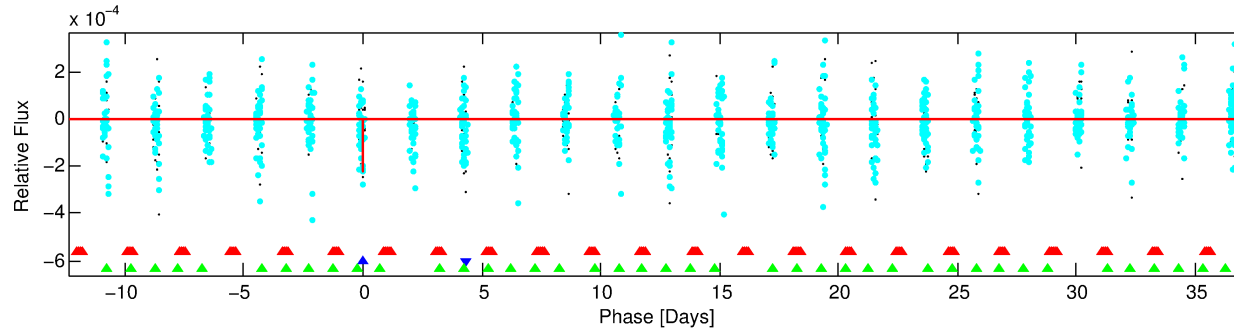
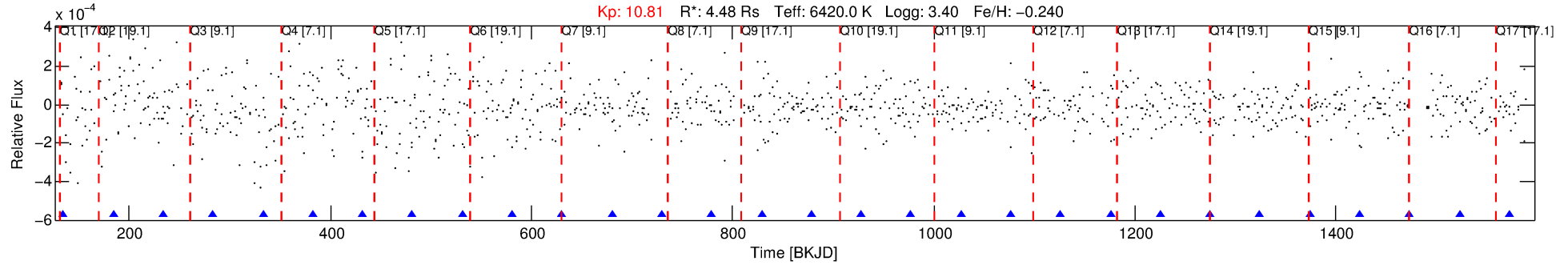
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010735757-02

No Significant Match Found

DV One-Page Summary

KIC: 10735757 Candidate: 2 of 3 Period: 49.578 d



DV Fit Results:

Period = 49.57803 [0.00193] d
Epoch = 134.6543 [0.0187] BKJD
Rp/R* = 0.0140 [0.1084]
a/R* = 548.62 [21606.42]
b = 0.03 [1249.39]
Seff = 291.18 [193.49]
Teq = 1053 [175] K
Rp = 6.83 [53.09] Re
a = 0.3239 [0.1338] AU
Ag = 139.65 [2170.15] [0.06 σ]
Teffp = 5598 [21731] K [0.21 σ]

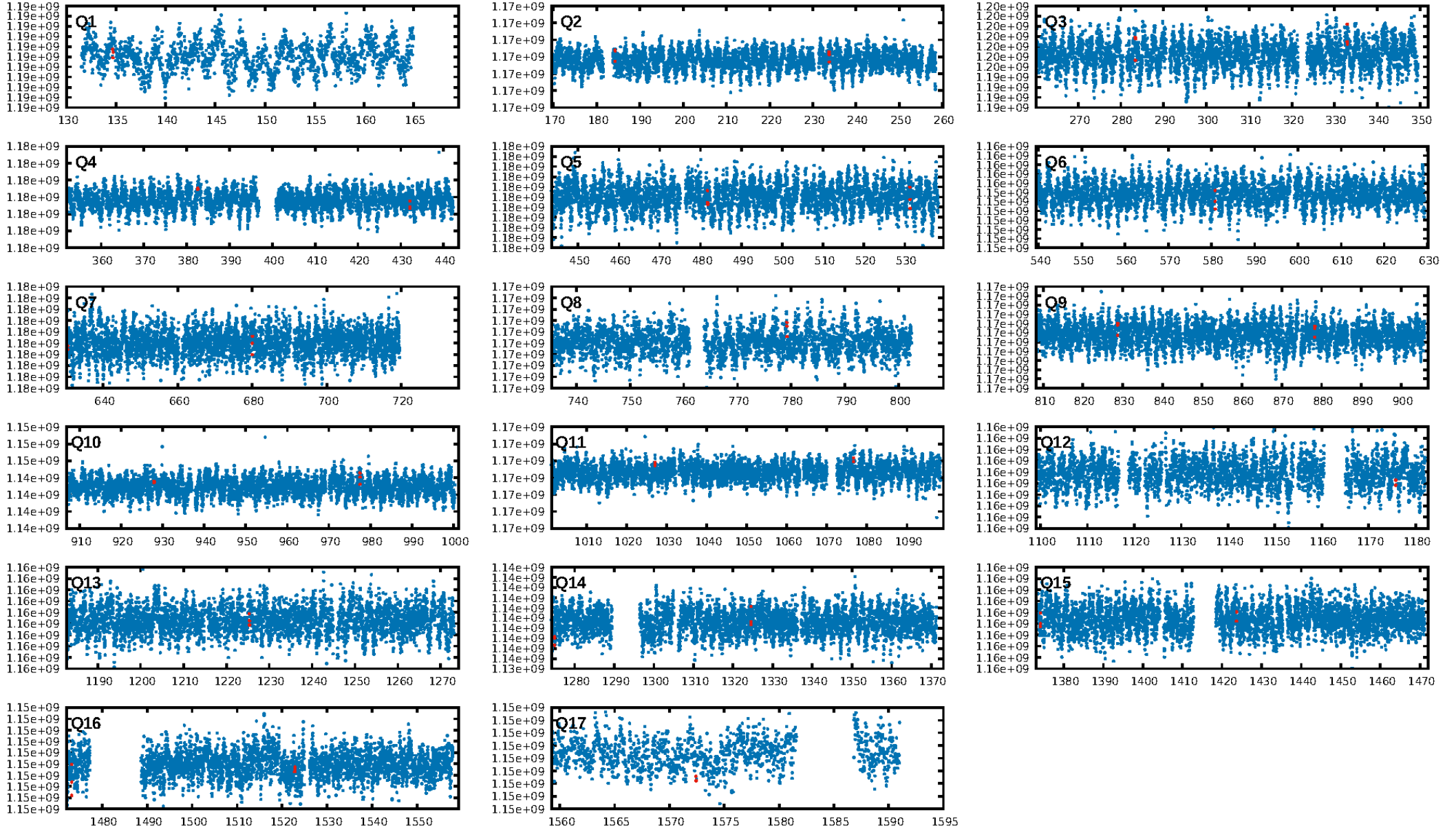
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [112.60 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 22.6%
Bootstrap-pfa: 8.25e-202
RollingBand-fgt: 1.00 [12/12]
GhostDiagnostic-chr: 3.621
Centroid-sig: 46.0%
Centroid-so: 0.189 arcsec [0.37 σ]
OotOffset-rm: 2.116 arcsec [2.09 σ]
OotOffset-st: 3/2/4/4 [13]
KicOffset-rm: 1.934 arcsec [3.35 σ]
KicOffset-st: 3/2/4/4 [13]
DiffImageQuality-fgm: 0.54 [7/13]
DiffImageOverlap-fno: 0.93 [13/14]

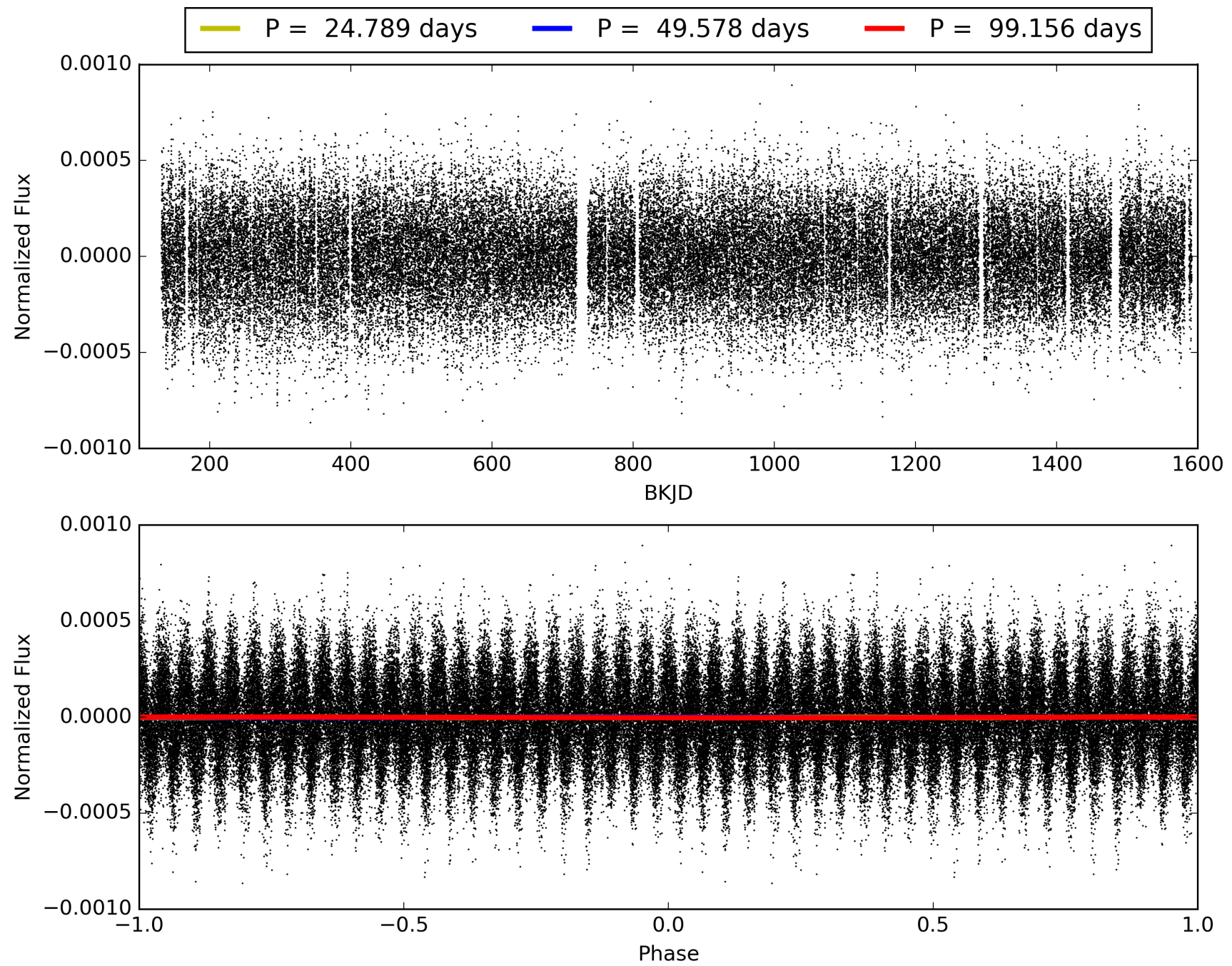
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 20:54:21 Z

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

TCE 010735757-02, PDC Light Curves

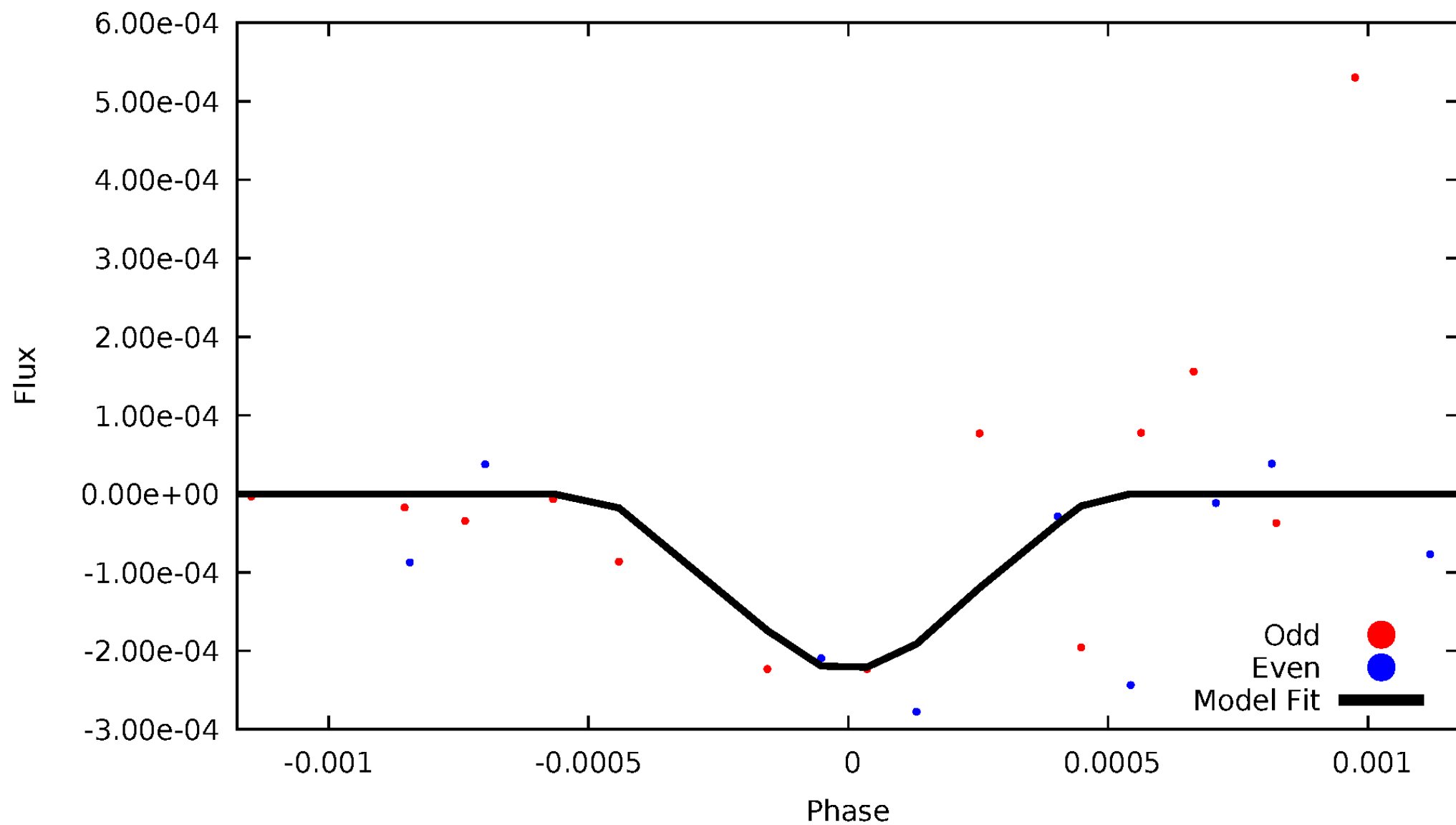


TCE 010735757-02



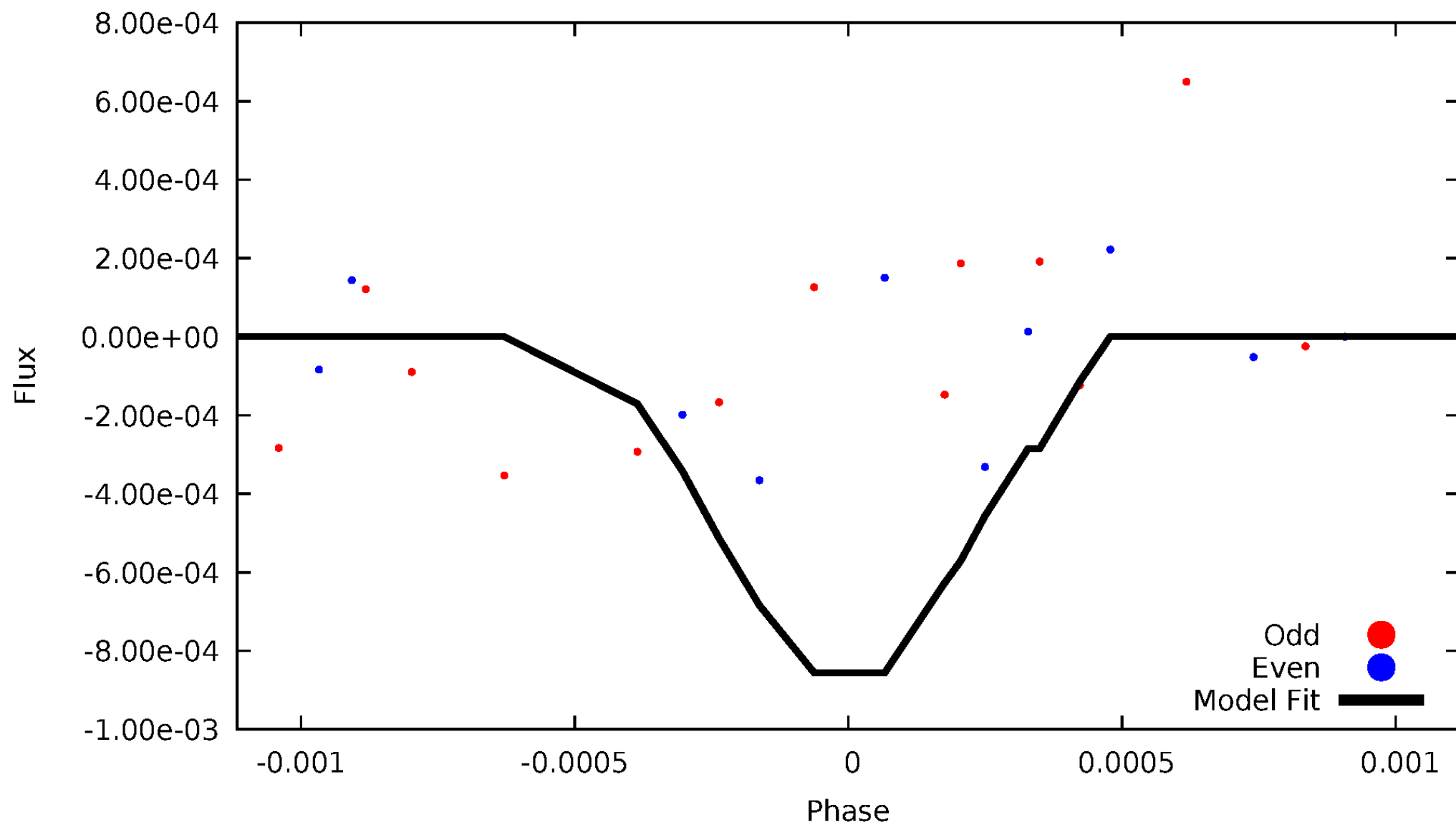
DV Odd/Even

TCE 010735757-02



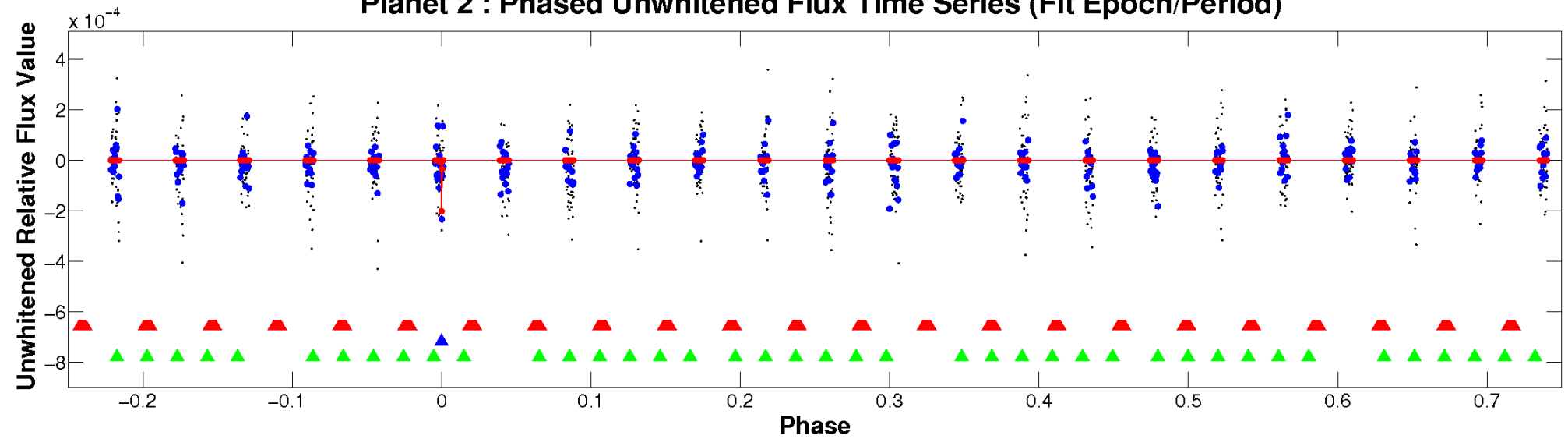
ALT Odd/Even

TCE 010735757-02

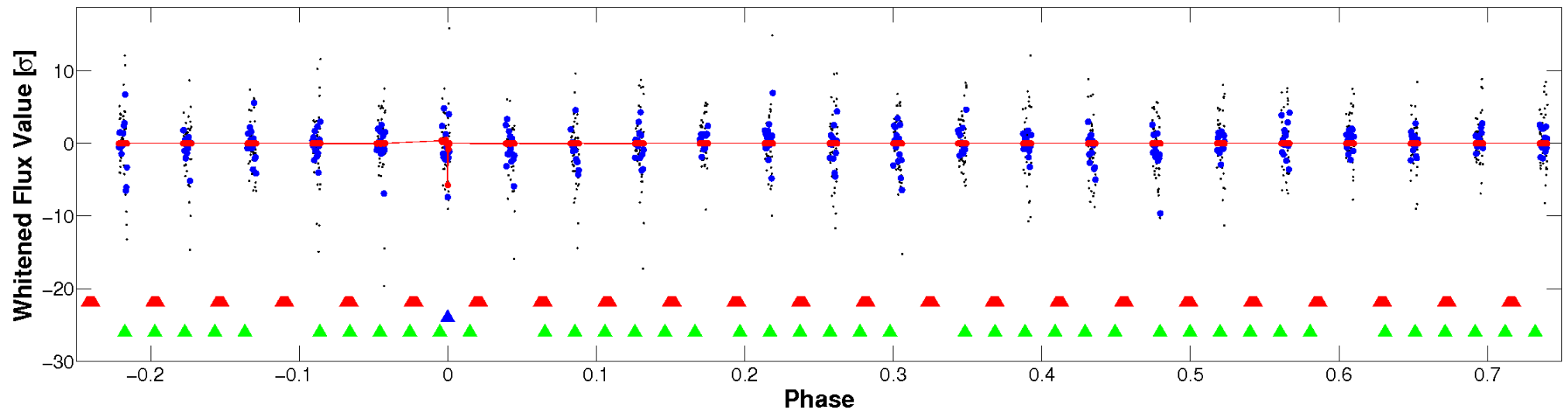


Non-Whitened Vs. Whitened Light Curve

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

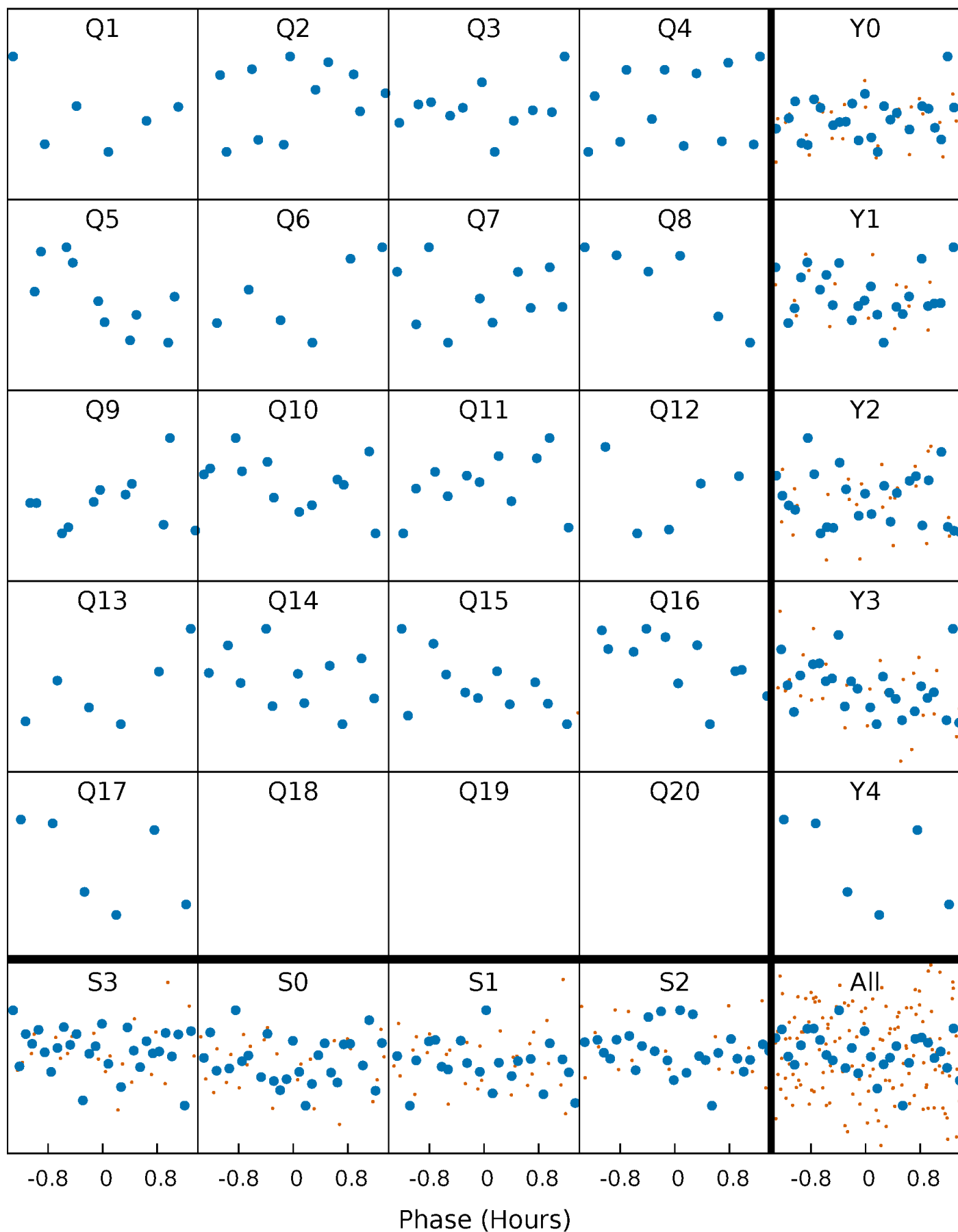


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



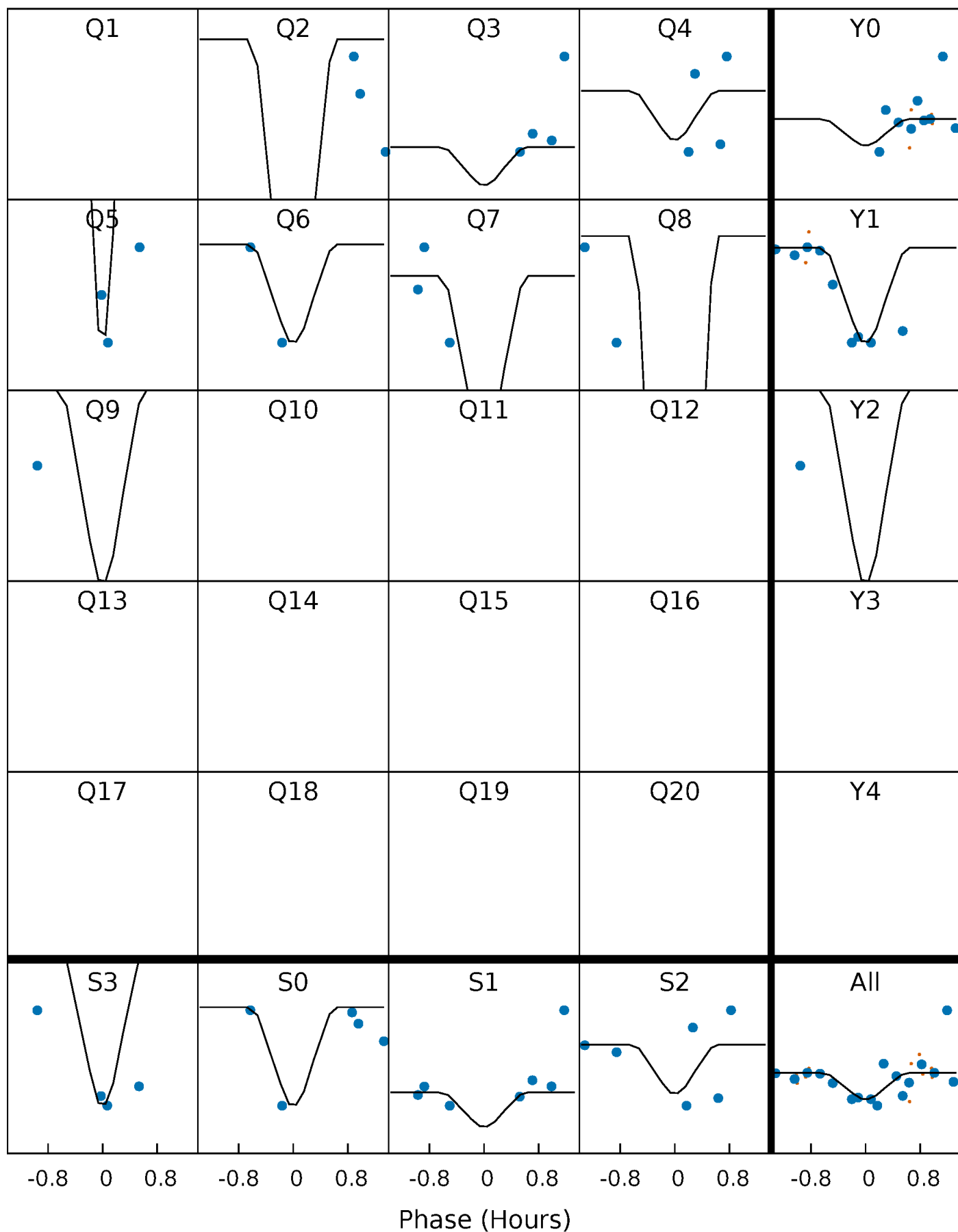
PDC Quarter-Phased Transit Curves

TCE 010735757-02 $P = 49.578026$ Days $T_0 = 134.654261$ (BKJD)



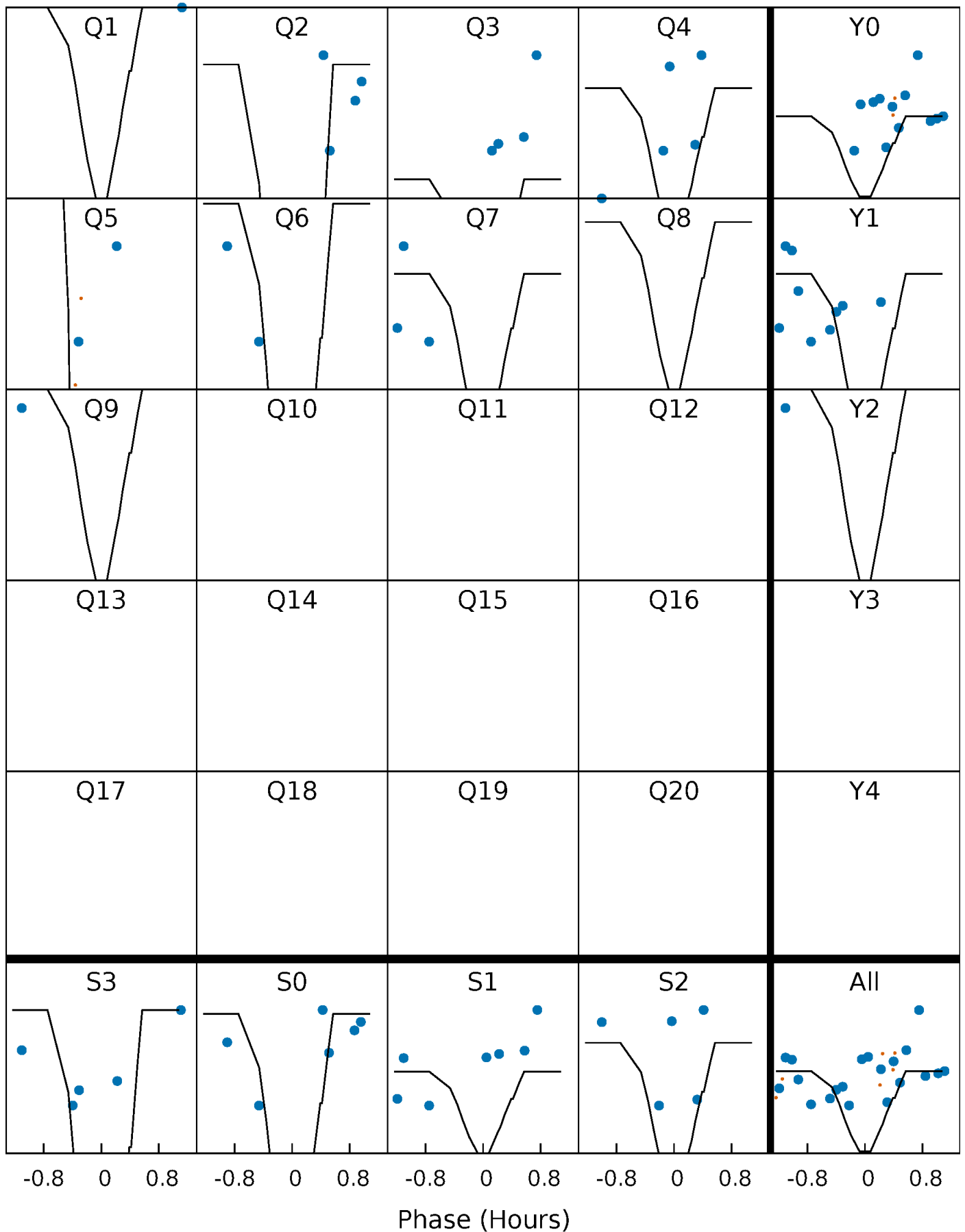
DV Quarter-Phased Transit Curves

TCE 010735757-02 P= 49.578026 Days $T_0=134.654261$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

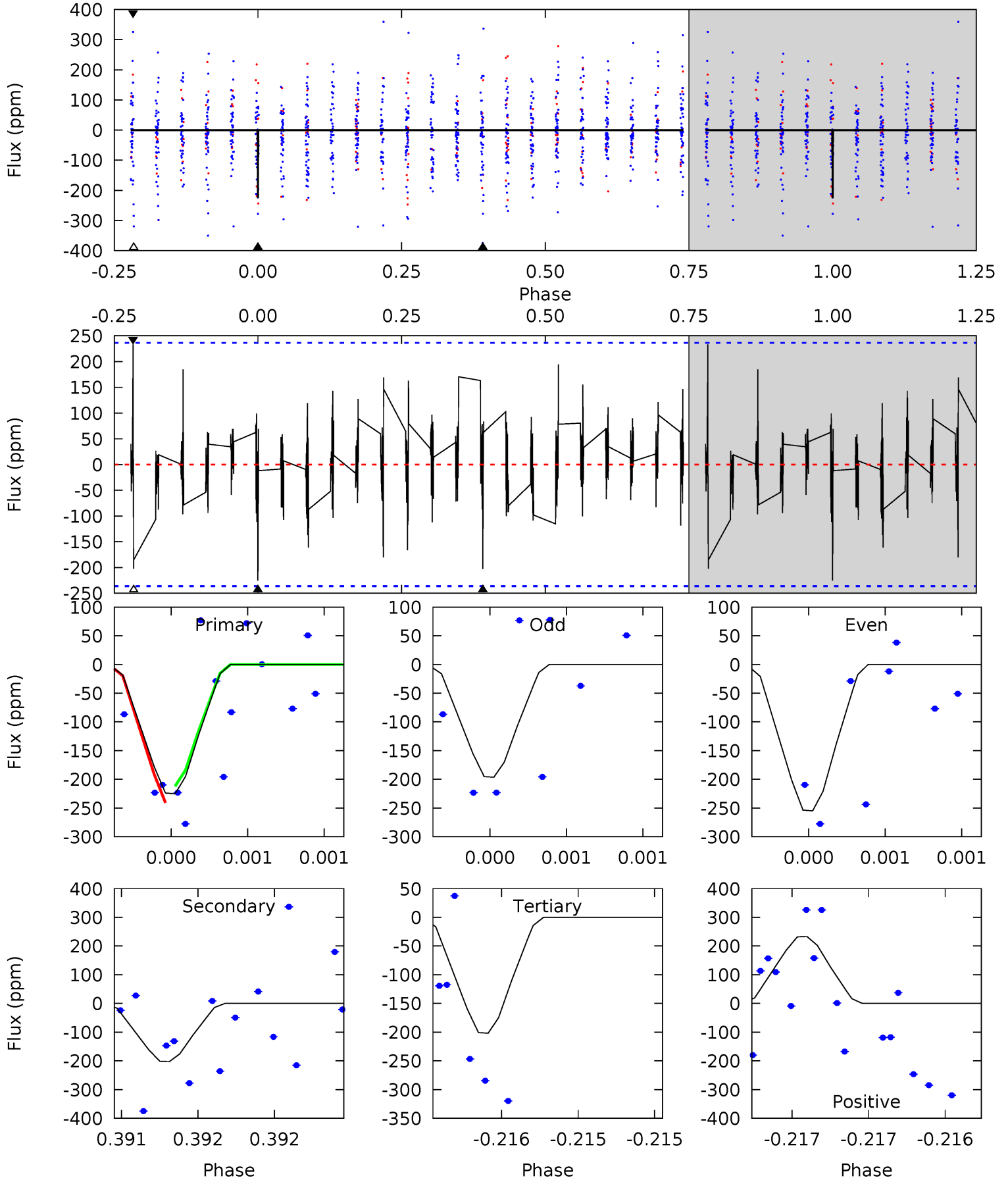
TCE 010735757-02 P= 49.576969 Days $T_0=134.675163$ (BKJD)



DV Model-Shift Uniqueness Test

010735757-02, P = 49.578026 Days, E = 85.076235 Days

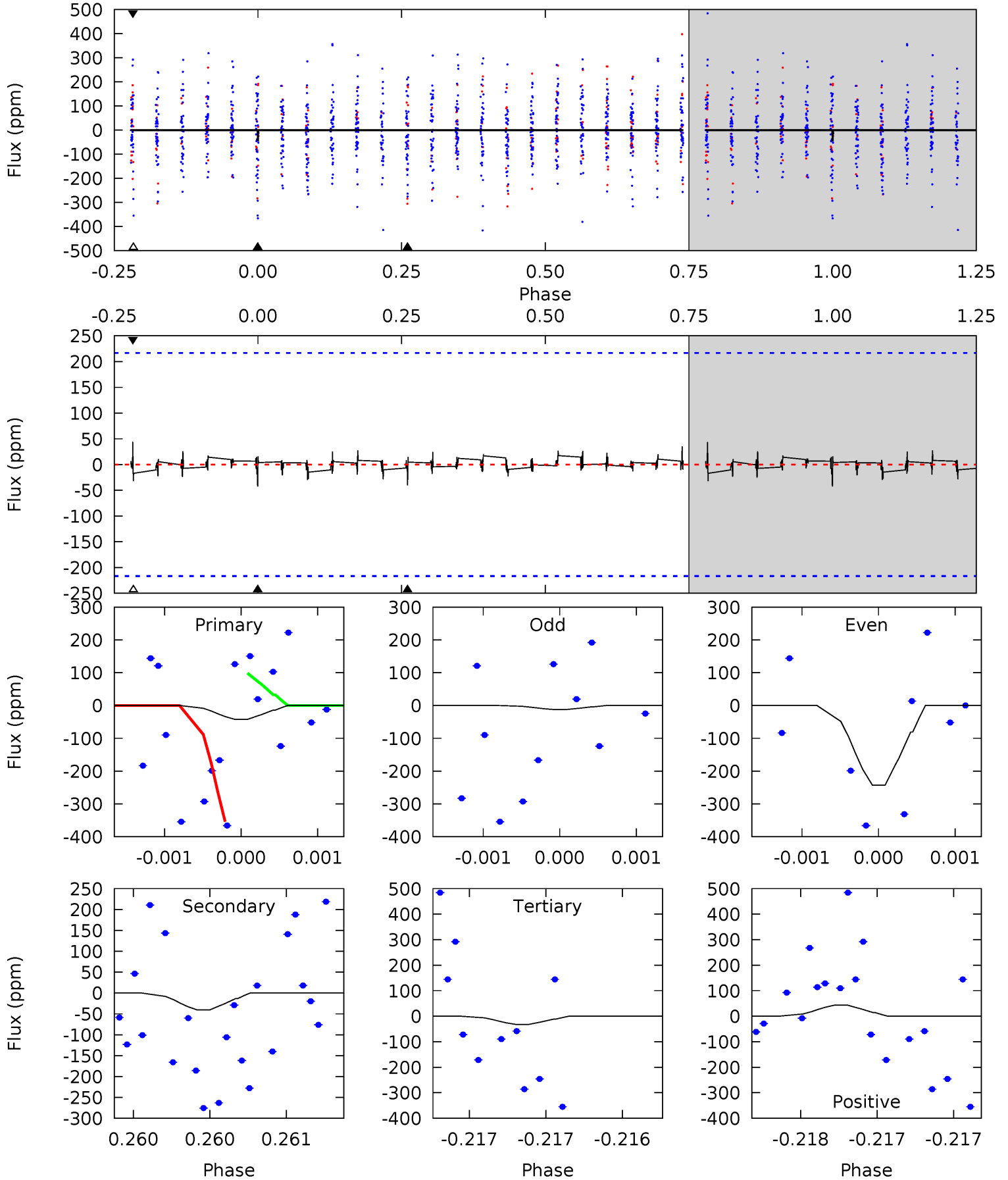
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.25	4.73	4.71	5.44	5.51	3.39	1.31	0.55	-0.19	0.02	-0.72	0.67	1.00	0.51	0.26



Alt Model-Shift Uniqueness Test

010735757-02, P = 49.576969 Days, E = 85.098194 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.07	1.02	0.82	1.10	5.49	3.36	0.26	0.25	-0.03	0.20	-0.08	3.01	0.82	0.51	0



Stellar Parameters For KIC 010735757

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6420^{+163}_{-163}	$3.401^{+0.384}_{-0.072}$	$-0.240^{+0.350}_{-0.300}$	$4.480^{+0.648}_{-1.945}$	$1.846^{+0.117}_{-0.468}$	$0.029^{+0.102}_{-0.007}$
	+3%/-3%	+11%/-2%	+146%/-125%	+14%/-43%	+6%/-25%	+354%/-23%
Source	PHO1	FLK73	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 010735757-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-203 ± 43	$34.95^{+39.76}_{-24.74}$	1430^{+85}_{-143}	3243^{+1852}_{-630}	$9.194^{+88.727}_{-7.138}$
Alt.	-40 ± 39	$33.76^{+42.72}_{-22.66}$	1435^{+80}_{-156}	2409^{+1087}_{-4544}	$1.318^{+12.730}_{-1.304}$

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

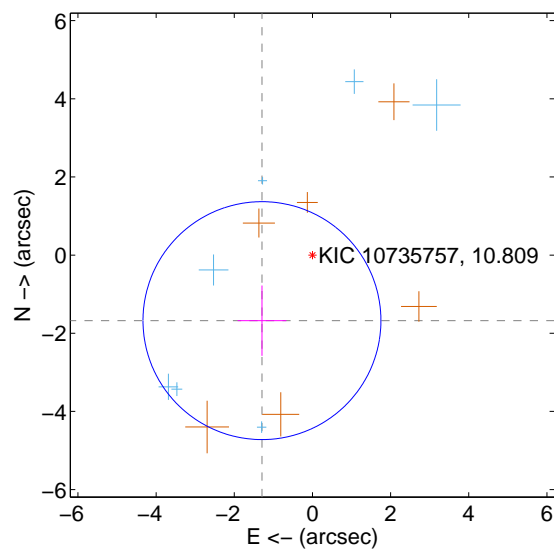
Supplemental centroid analysis for 010735757-02. **Kepler magnitude: 10.81.** Transit SNR 11.53

There are 7 quarters with good PRF difference image offsets

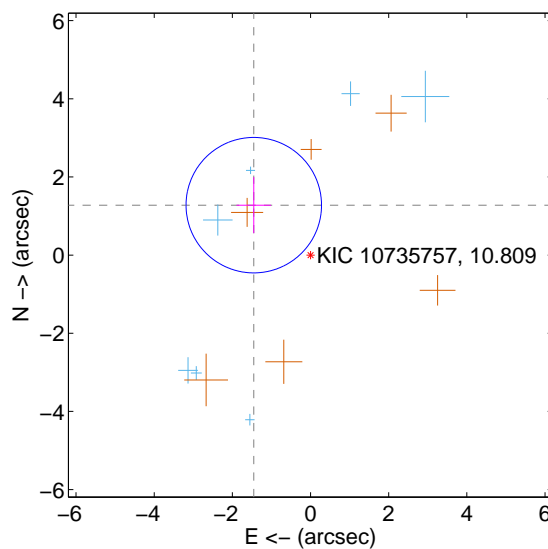
The direct PRF centroid is offset from the target star catalog position by about 1.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.116 ± 1.015	2.09	1.292 ± 0.624	-1.677 ± 0.900
PRF-fit source offset from KIC position	1.934 ± 0.578	3.35	1.452 ± 0.442	1.278 ± 0.716
photometric centroid source offset	0.19 ± 0.51	0.37	-0.16 ± 0.49	0.09 ± 0.56

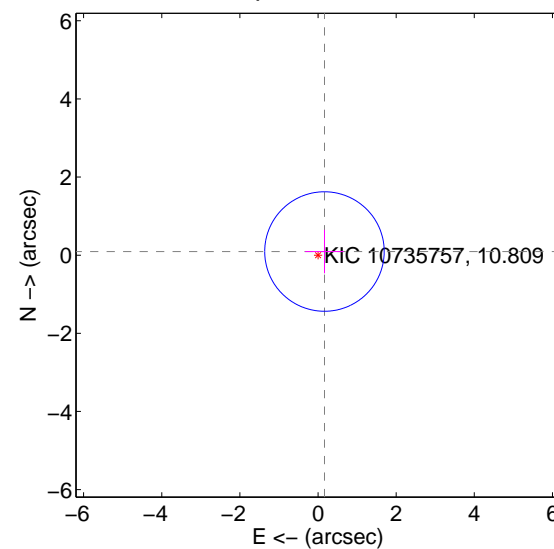
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

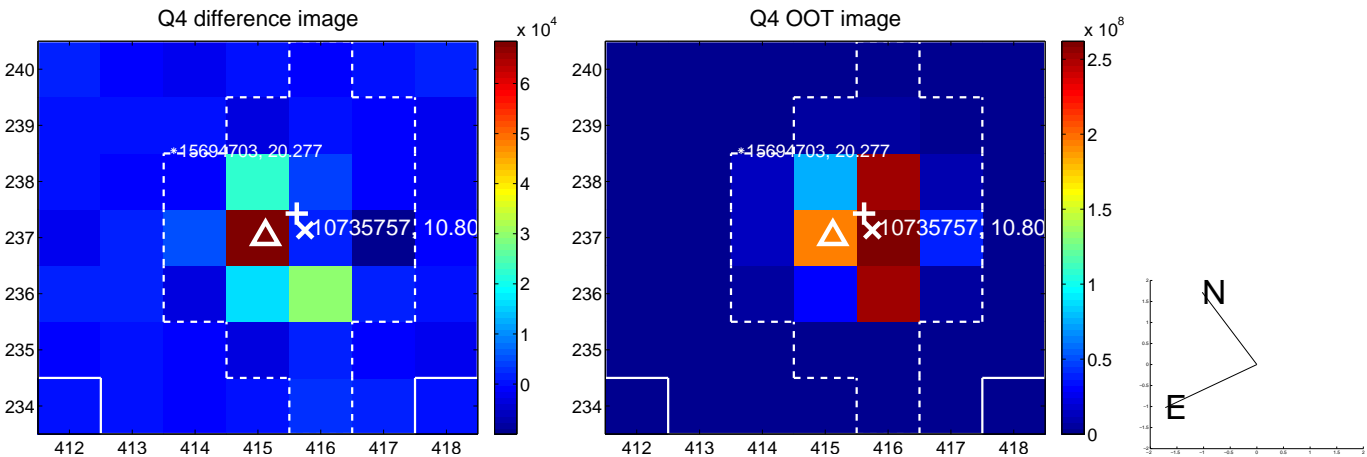
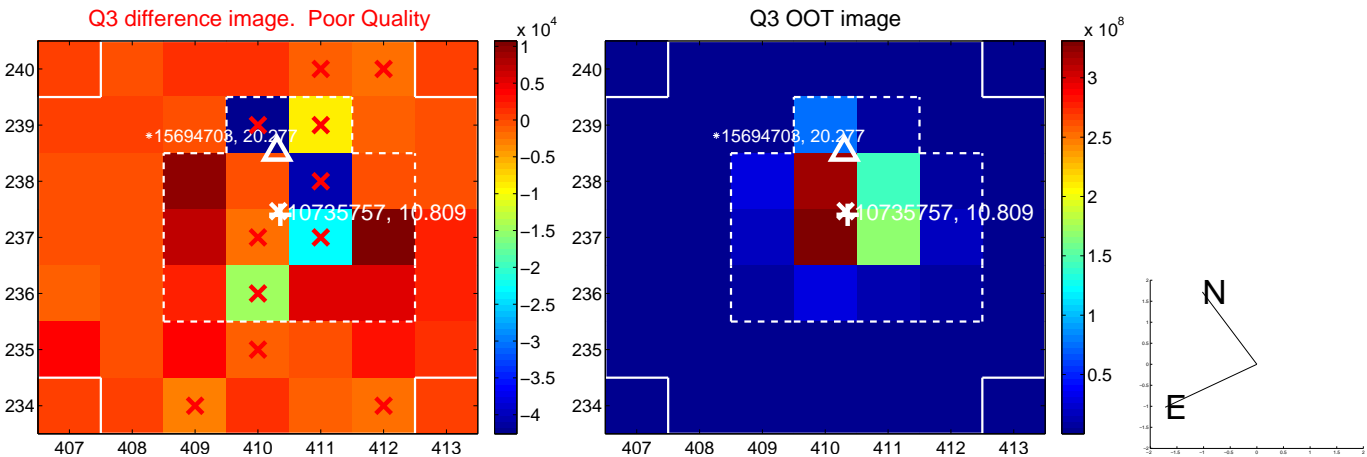
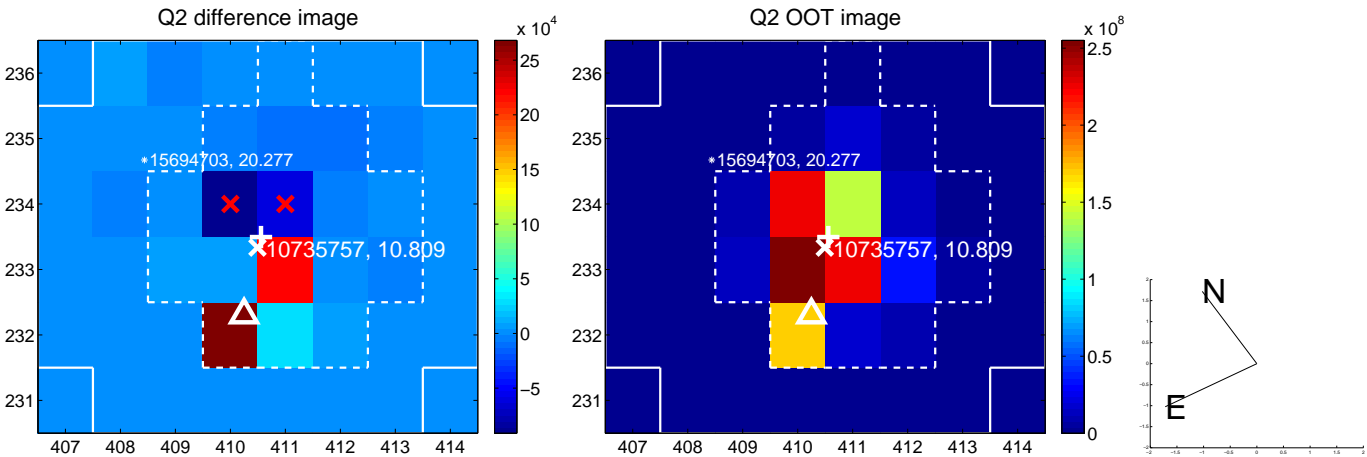
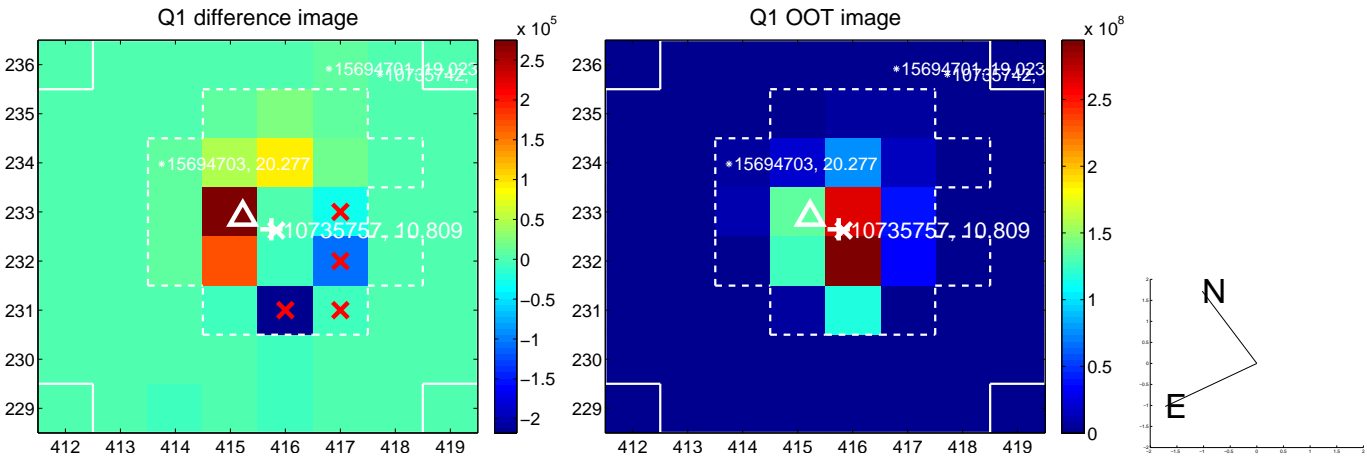


offset from photometric centroids

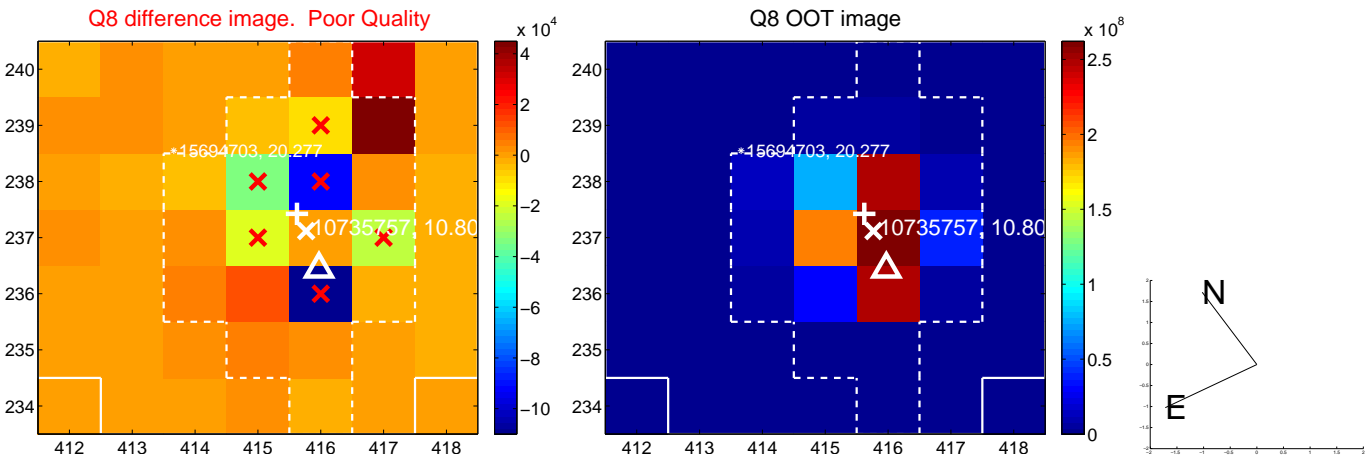
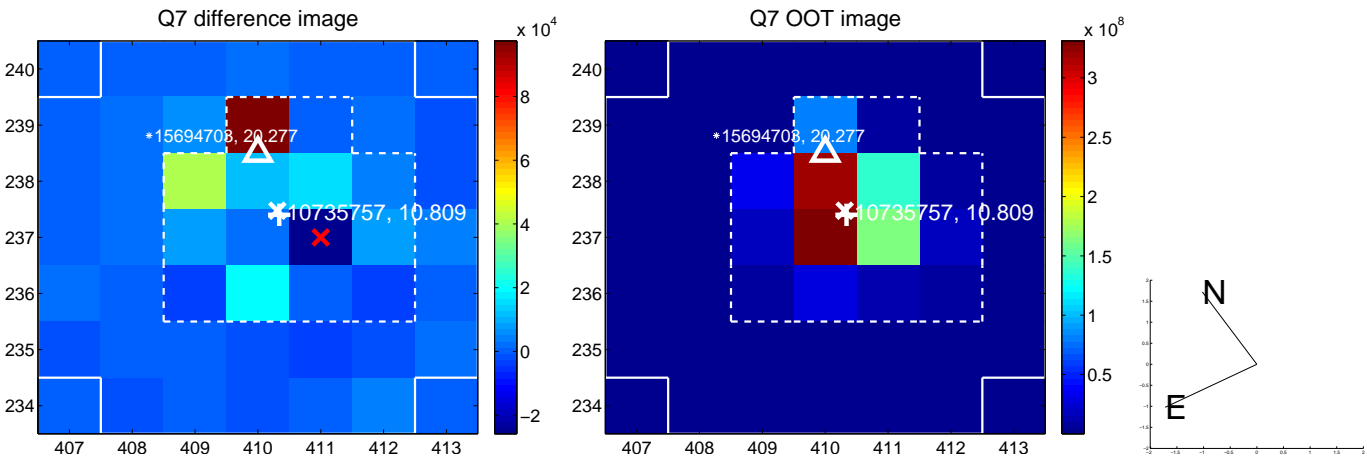
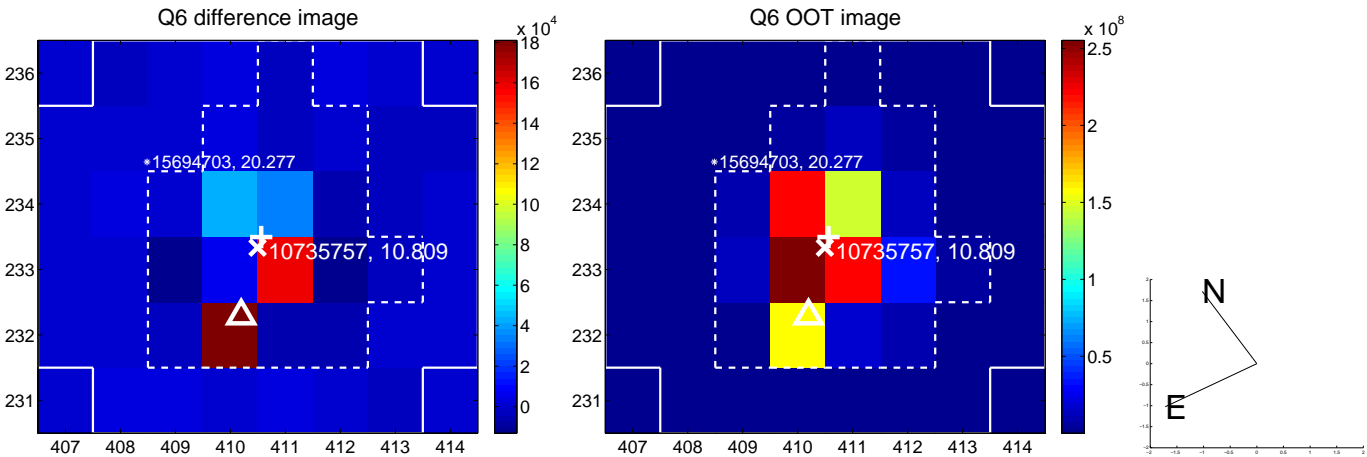
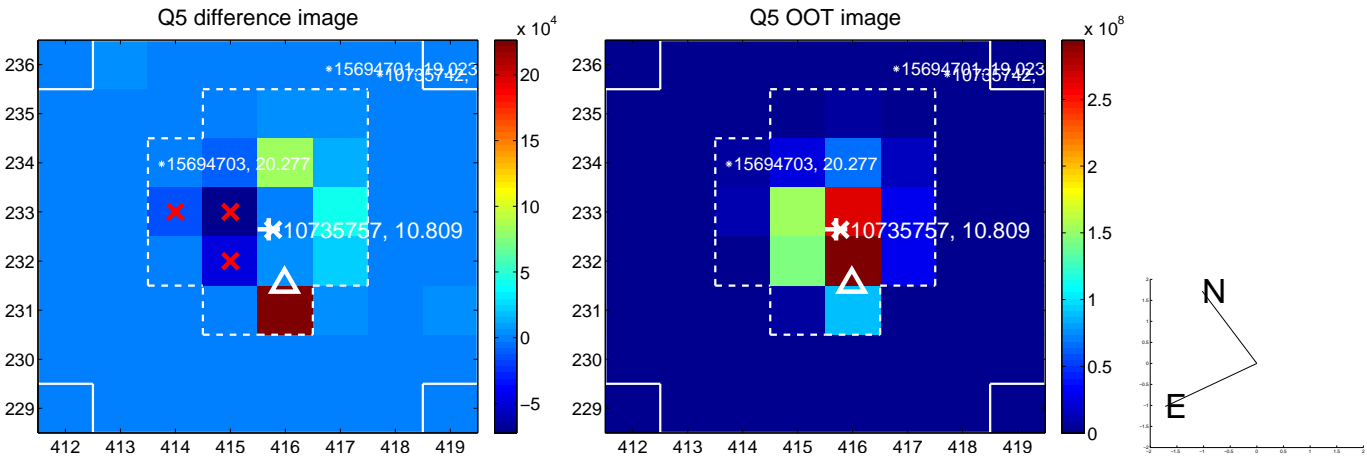


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

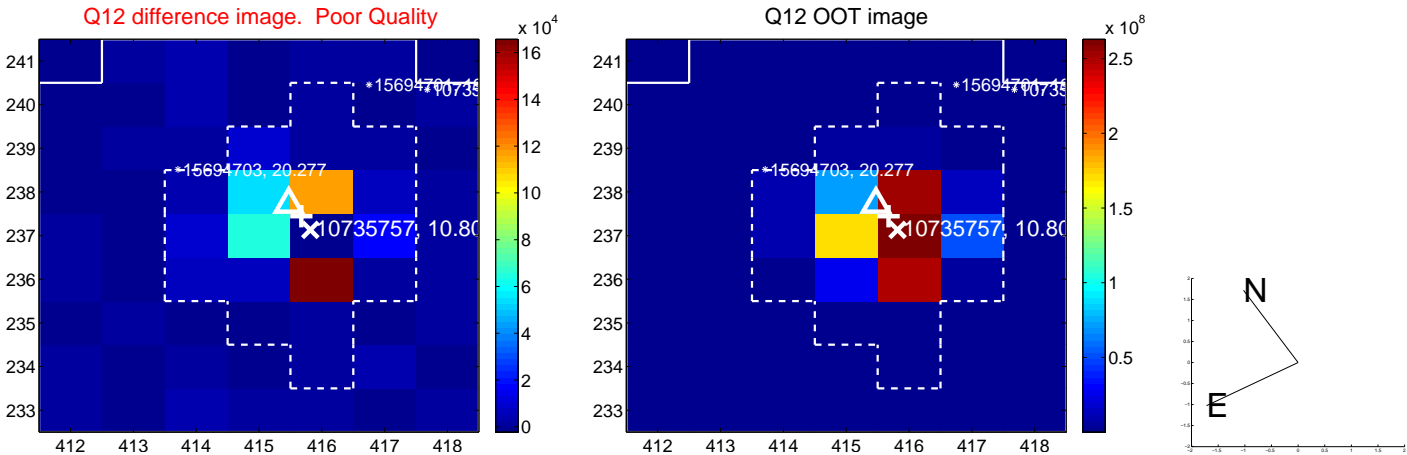
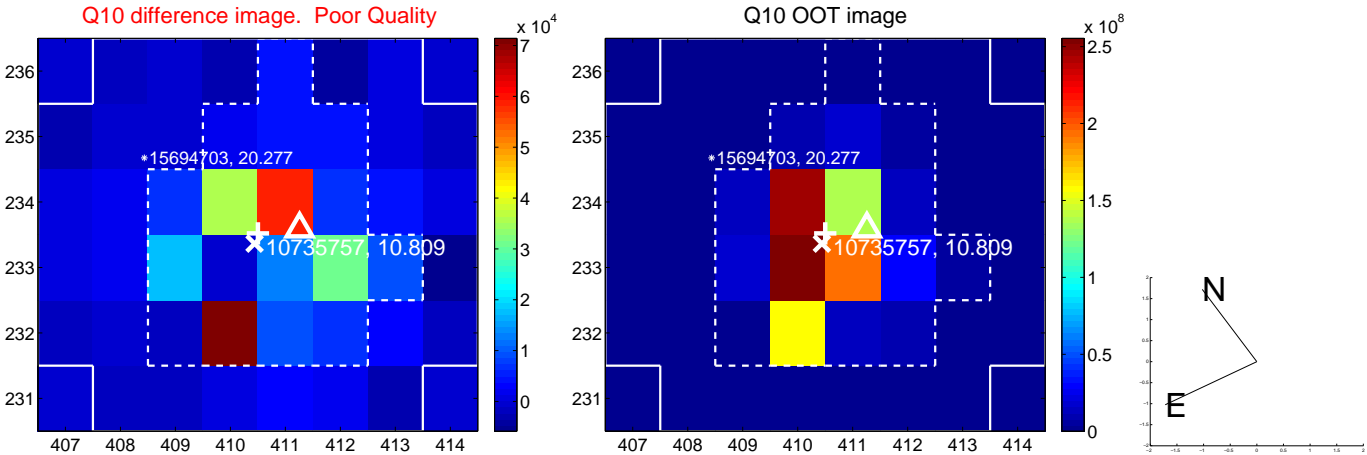
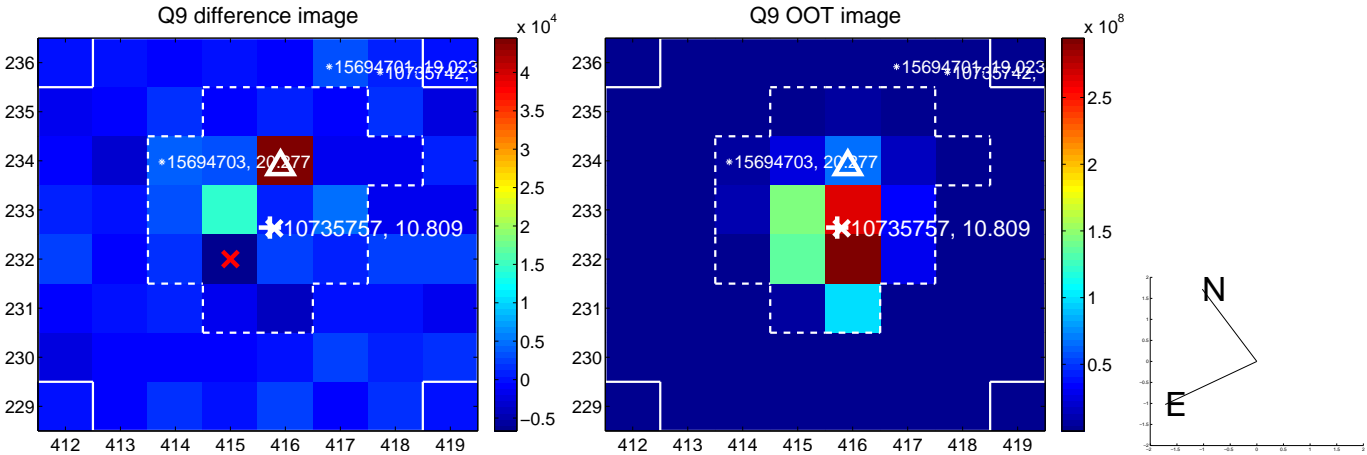
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



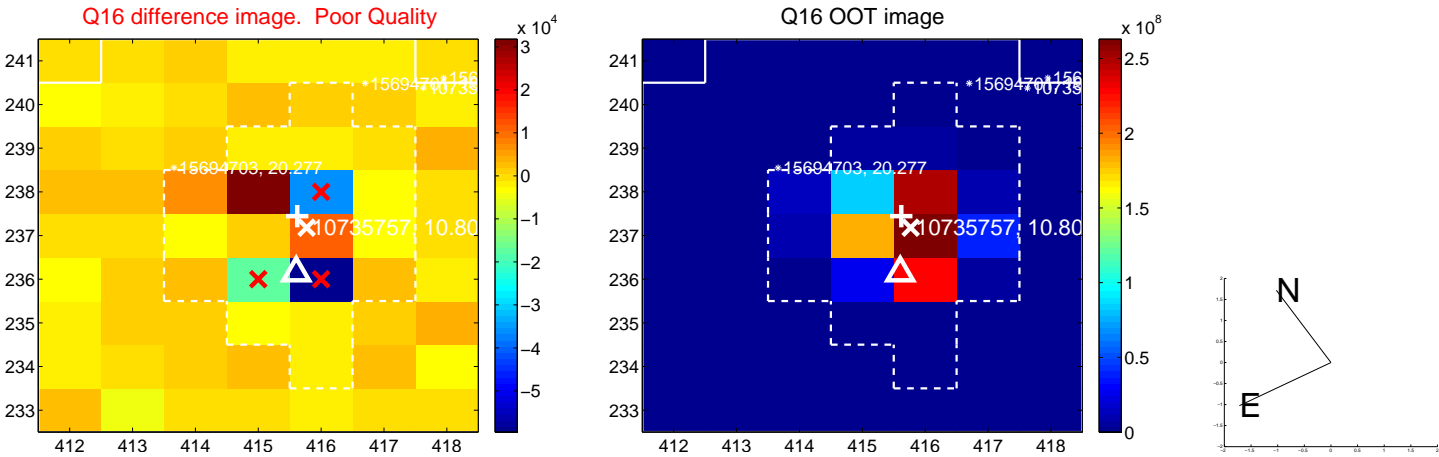
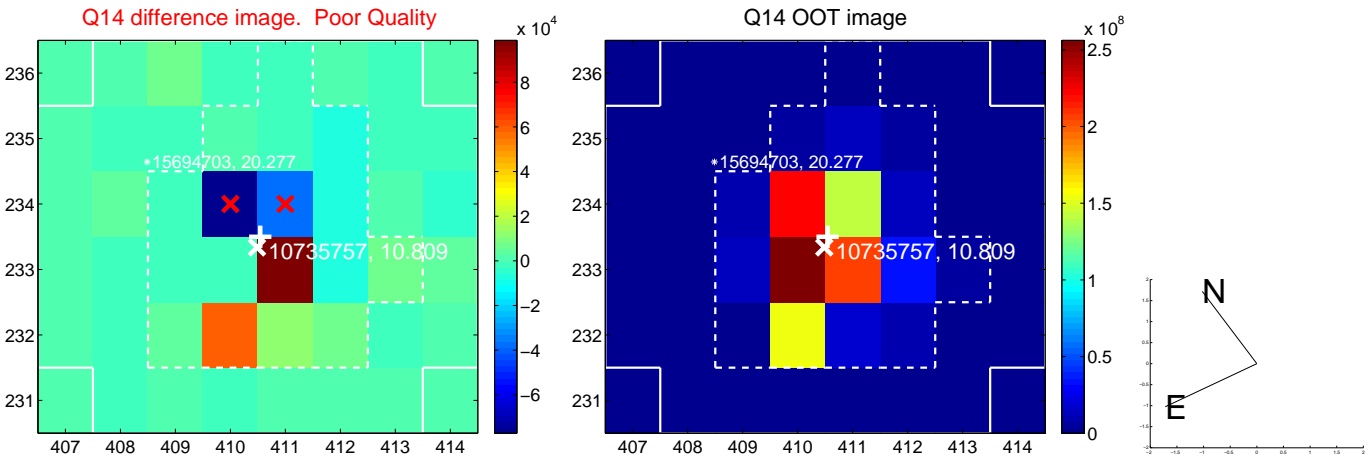
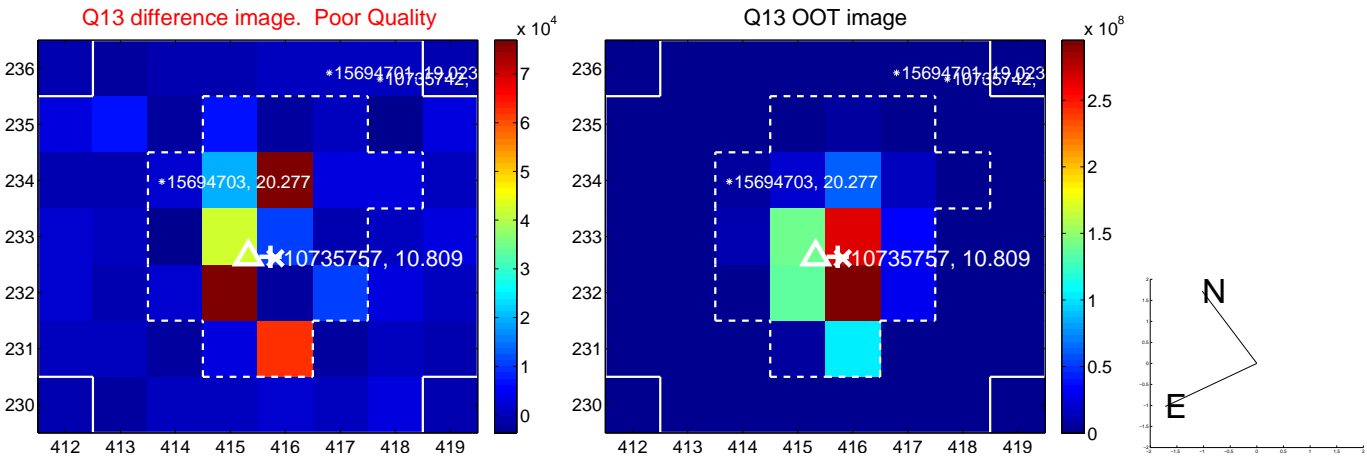
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



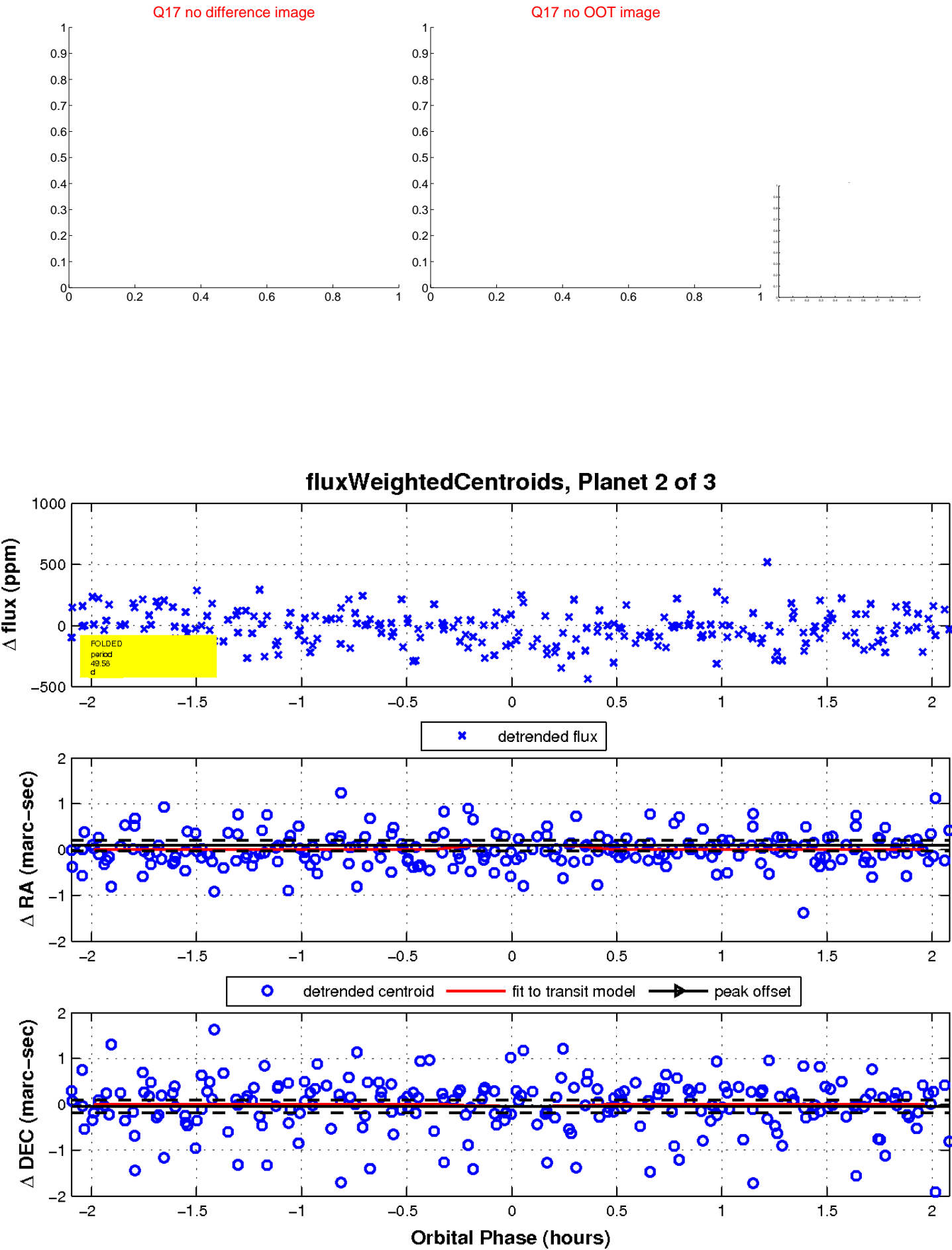
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

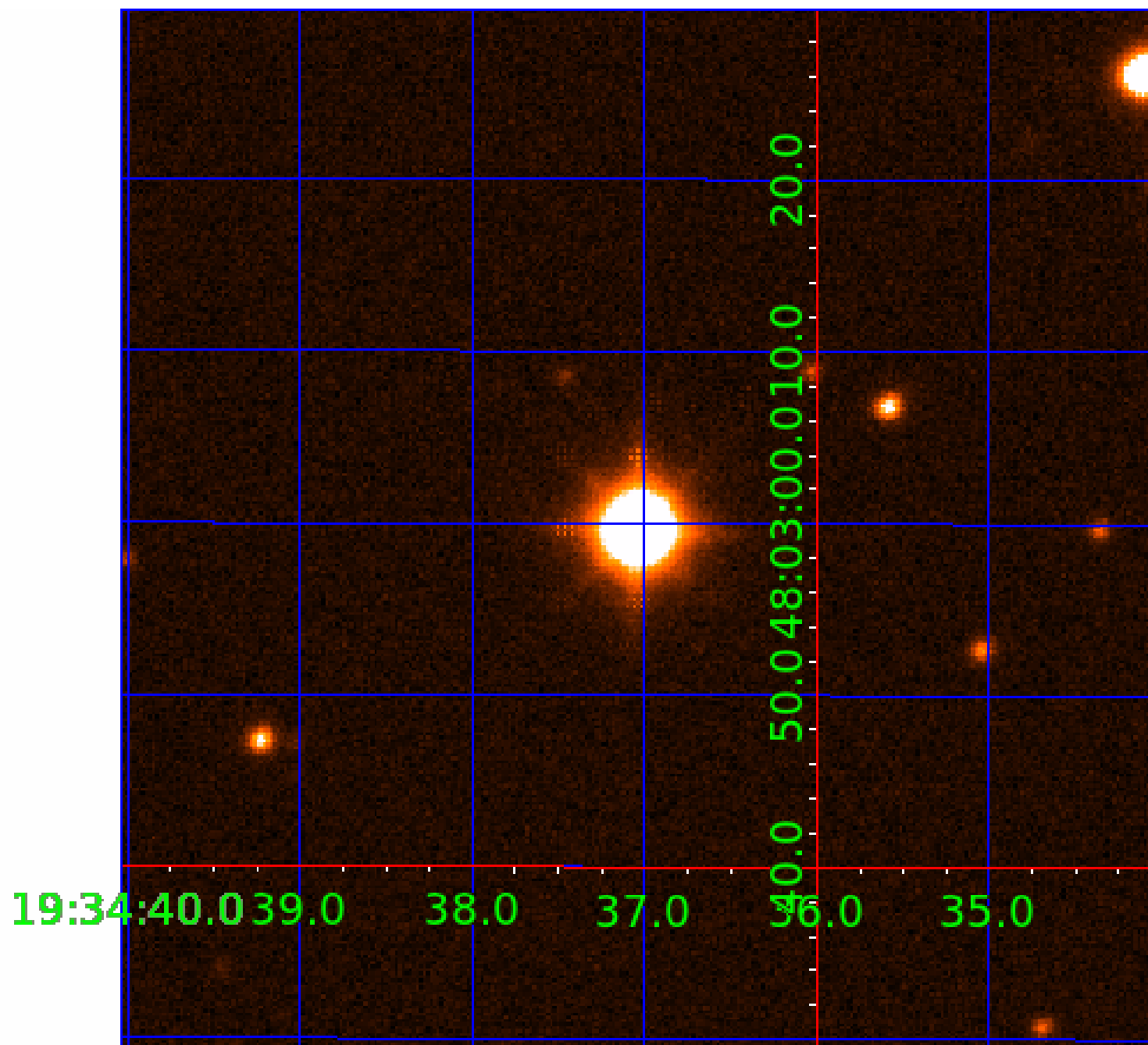


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010735757

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})
010735757-01	OBS	No	2.155183	133.643581	5.4	16.778	11.5	2.4	4.48	6420	1.05	19050.56
010735757-02	OBS	No	49.578026	134.654261	222.2	0.700	13.8	11.5	4.48	6420	6.83	291.18
010735757-03	OBS	No	35.555988	158.431291	133.7	2.906	15.2	14.7	4.48	6420	6.04	453.60

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010735757-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_SATURATED
010735757-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
010735757-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_SATURATED

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

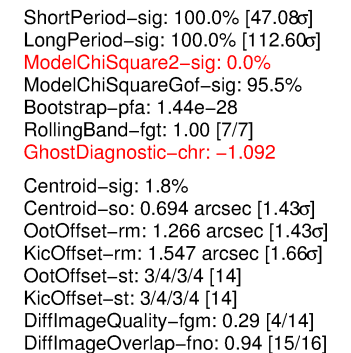
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

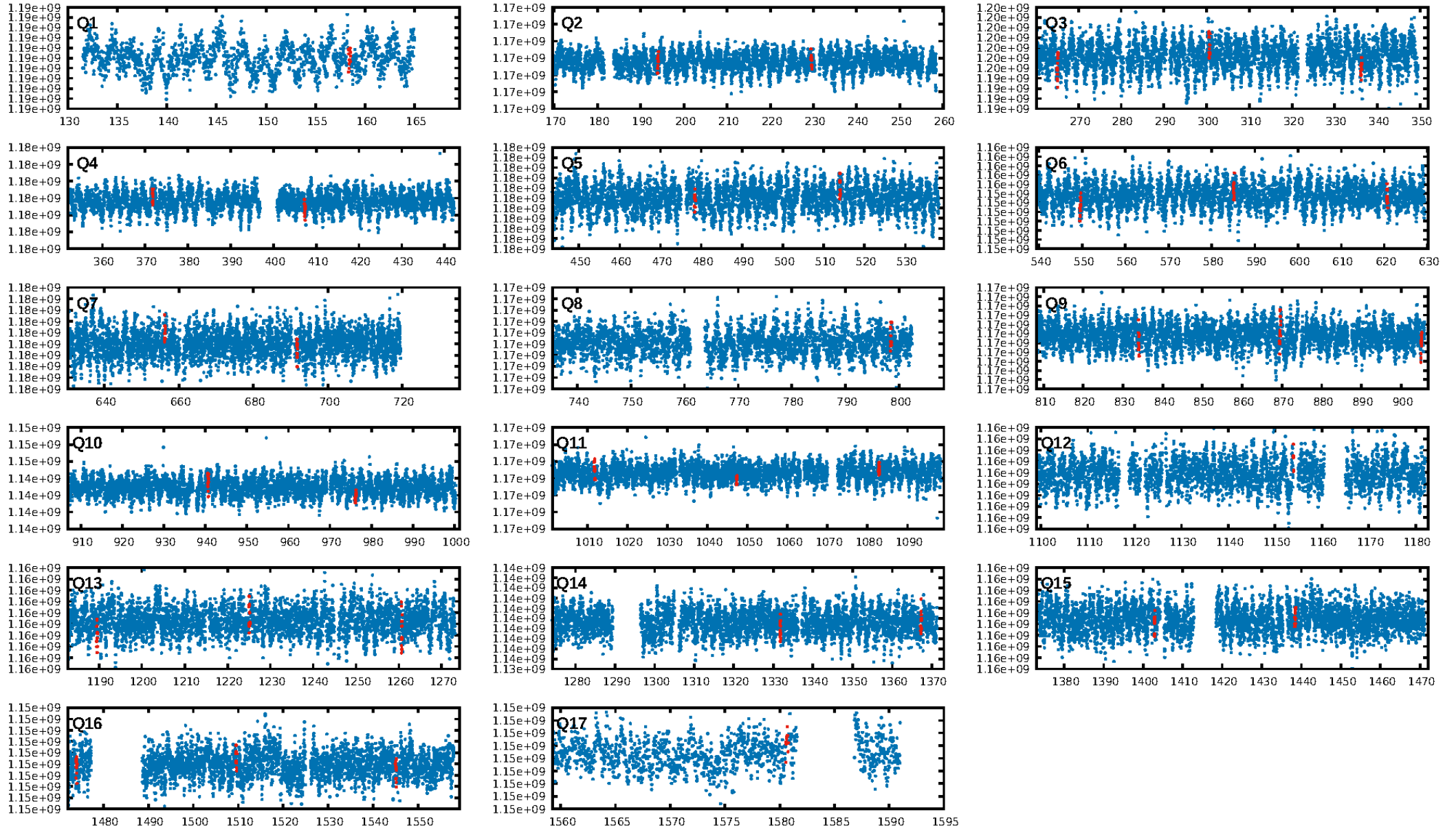
Ephemeris Match Information For 010735757-03

No Significant Match Found

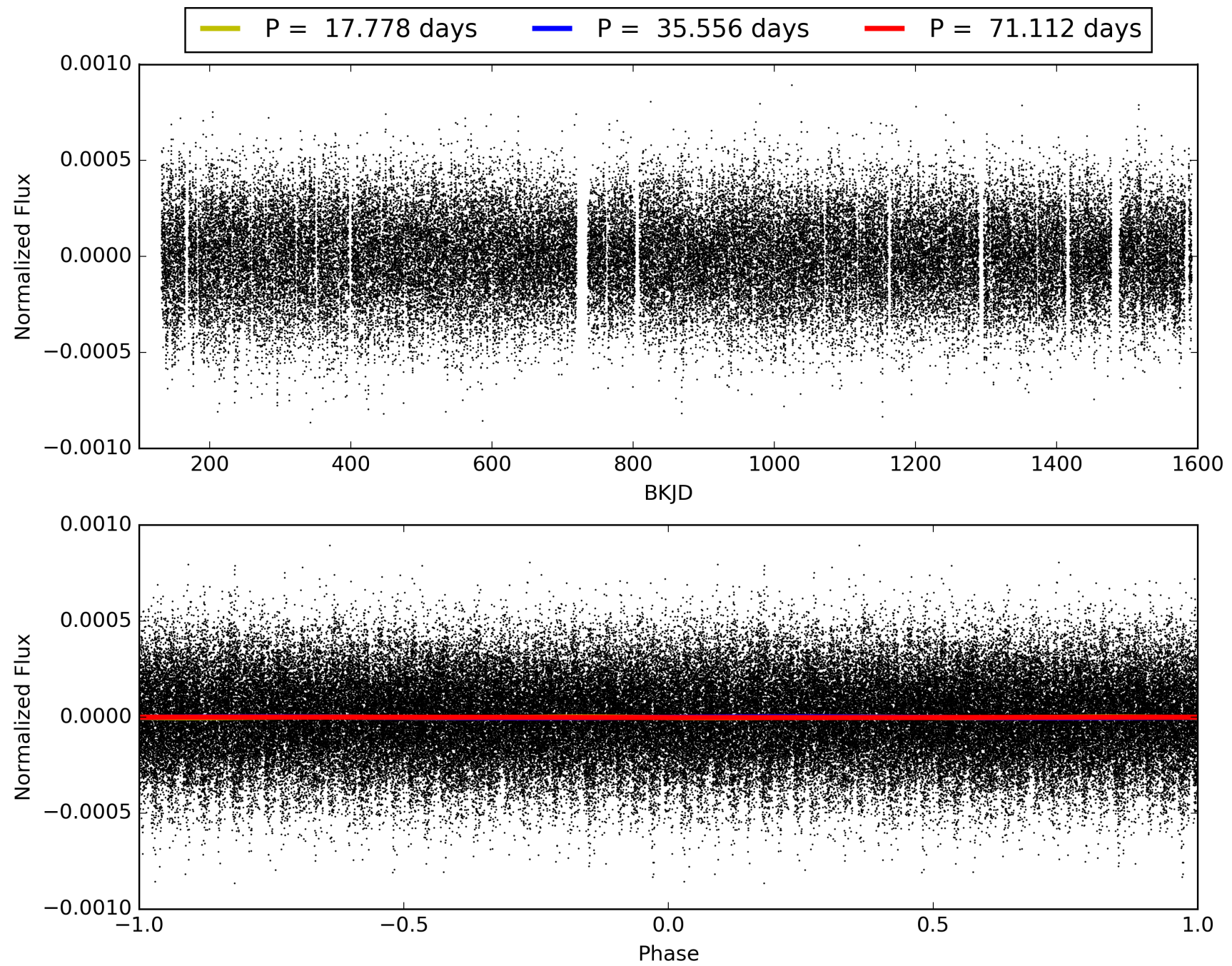
KIC: 10735757 Candidate: 3 of 3 Period: 35.556 d



TCE 010735757-03, PDC Light Curves

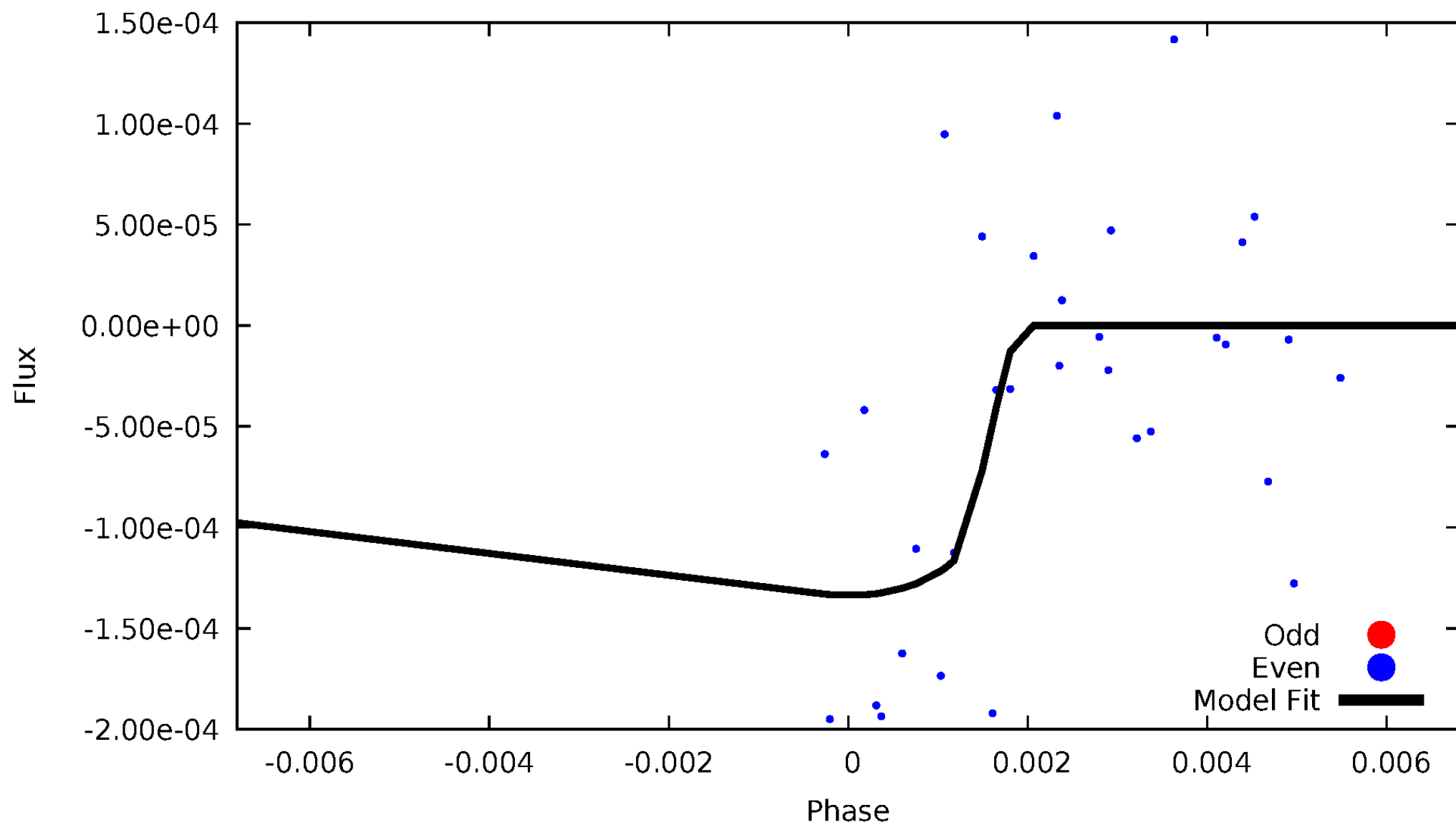


TCE 010735757-03



DV Odd/Even

TCE 010735757-03

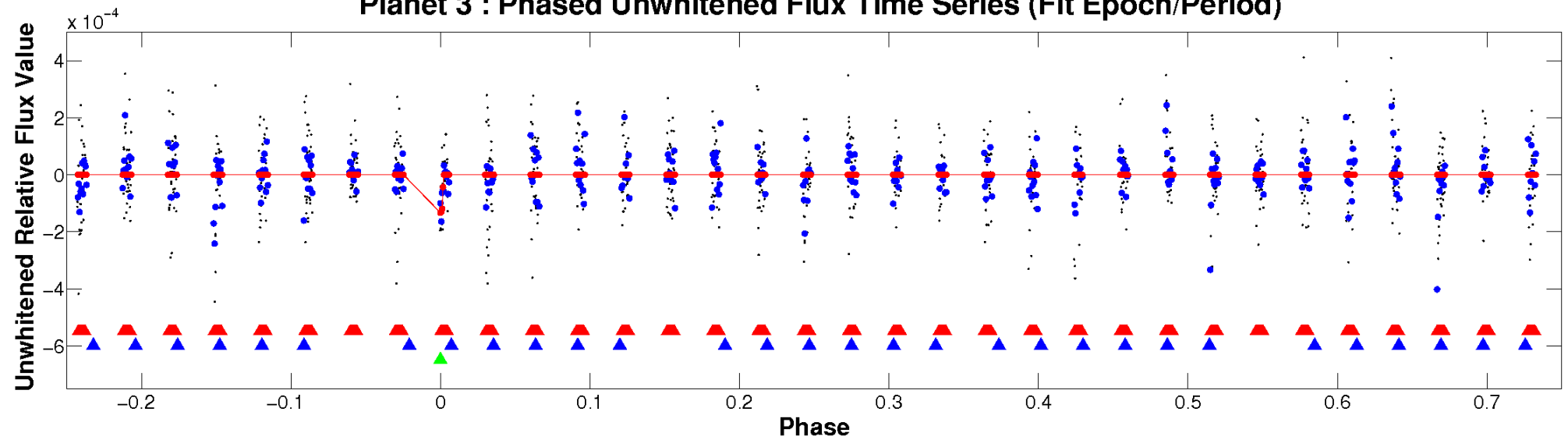


ALT Odd/Even

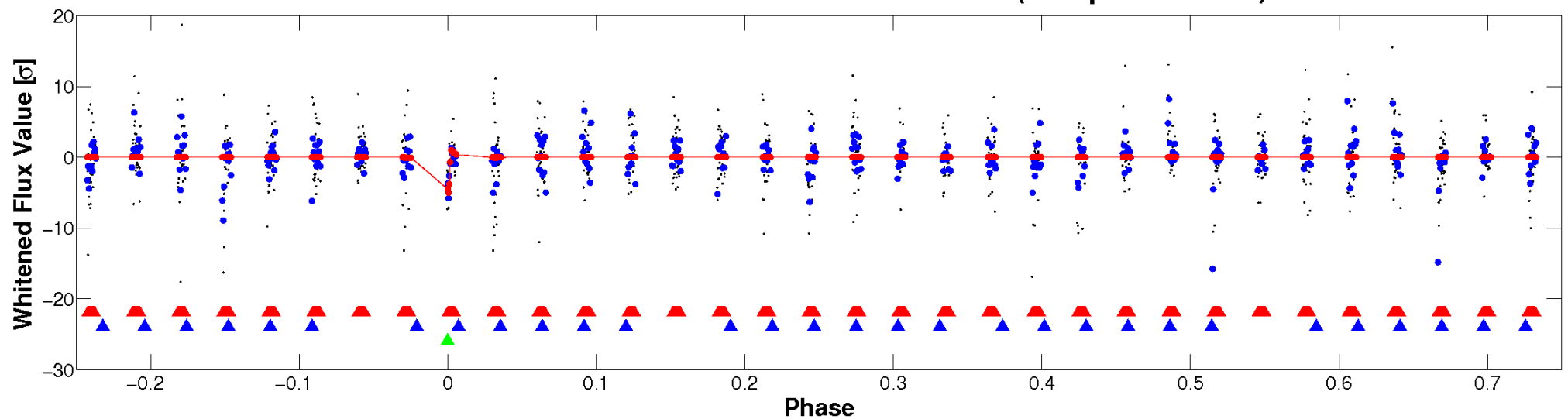
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

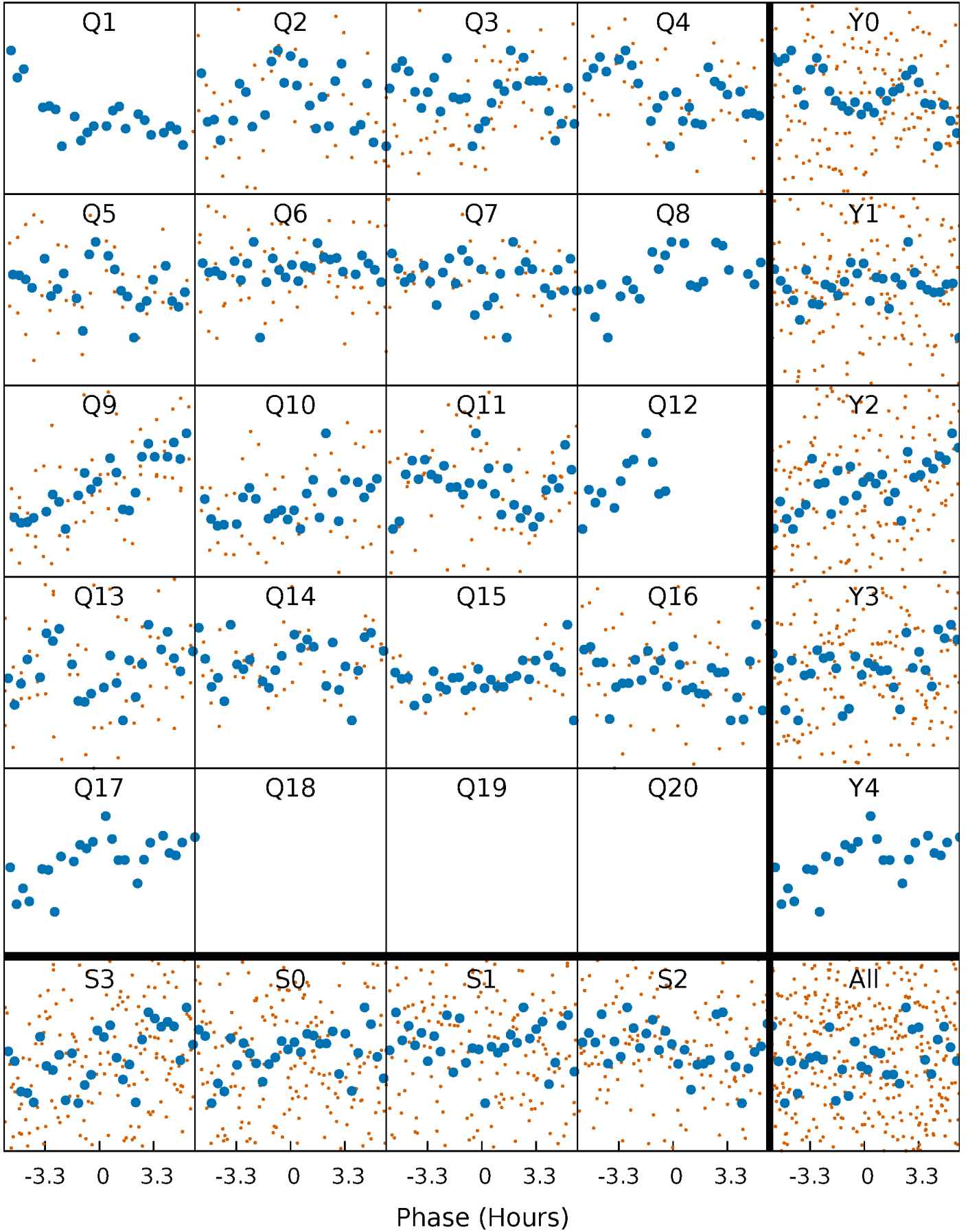


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



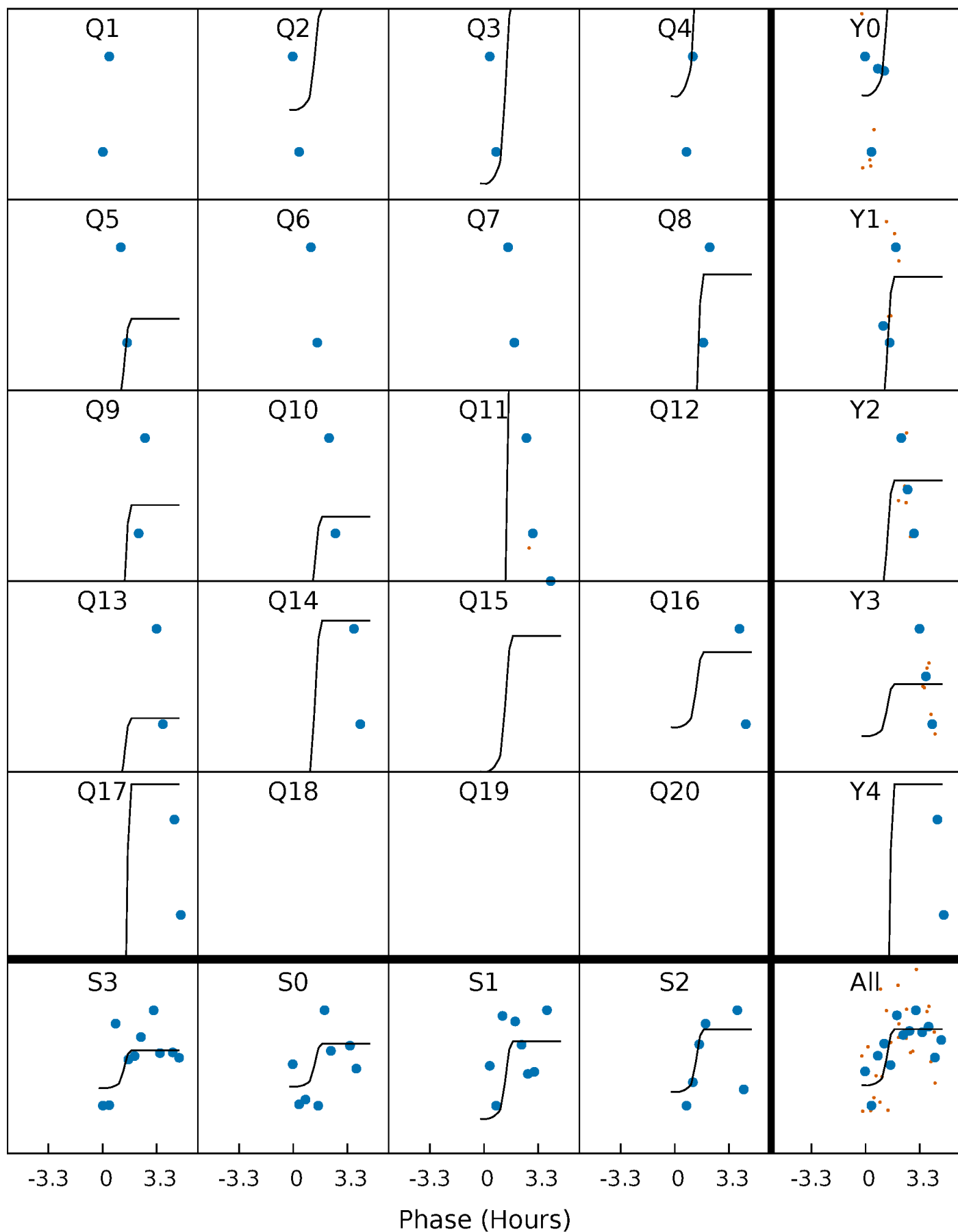
PDC Quarter-Phased Transit Curves

TCE 010735757-03 P= 35.555988 Days $T_0=158.431291$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 010735757-03 P= 35.555988 Days $T_0=158.431291$ (BKJD)

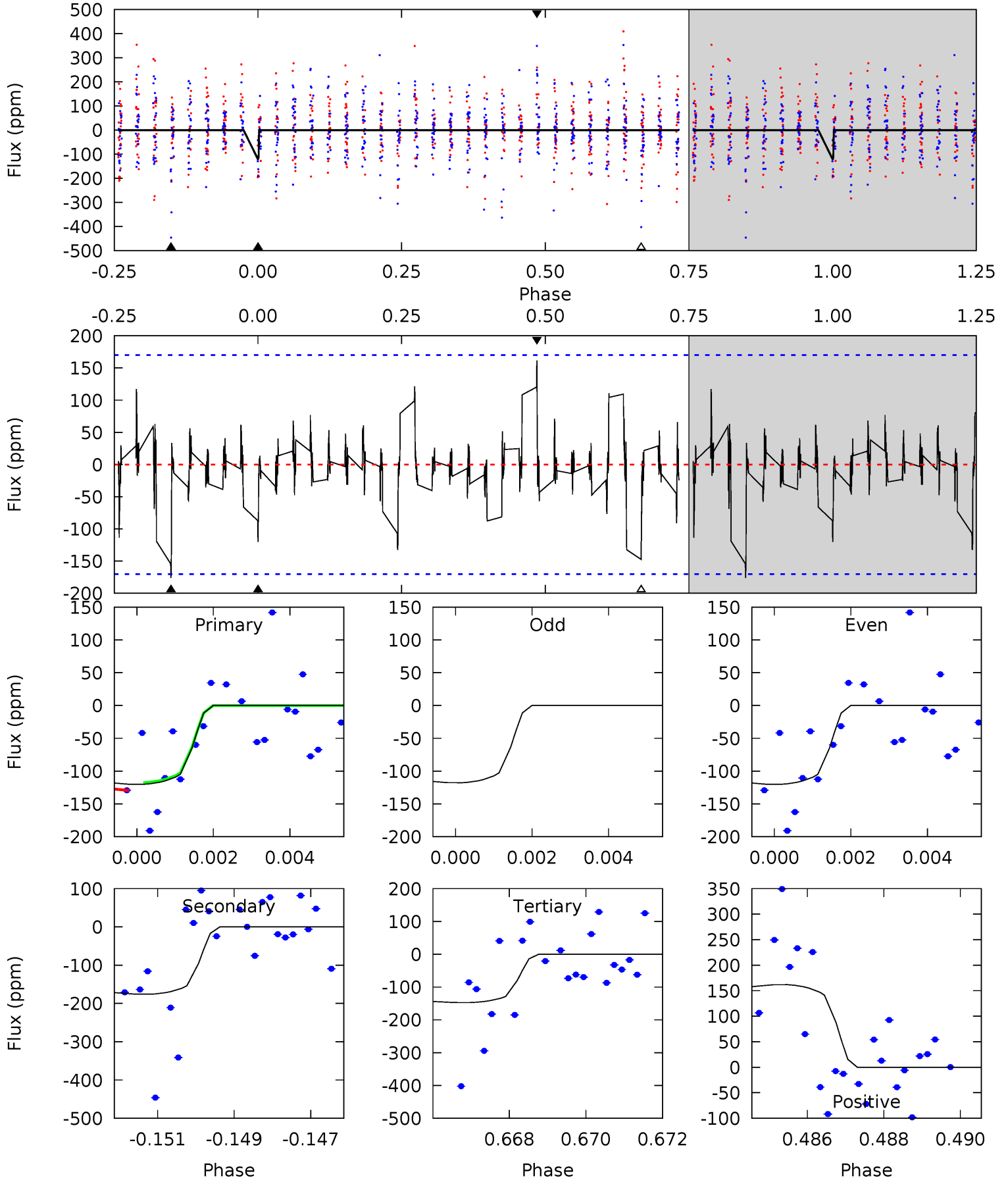


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

010735757-03, P = 35.555988 Days, E = 122.875303 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.75	5.50	4.61	5.06	5.32	3.08	1.13	-0.85	-1.30	0.89	0.44	0.05	0.85	0.48	0.10



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 010735757

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6420^{+163}_{-163}	$3.401^{+0.384}_{-0.072}$	$-0.240^{+0.350}_{-0.300}$	$4.480^{+0.648}_{-1.945}$	$1.846^{+0.117}_{-0.468}$	$0.029^{+0.102}_{-0.007}$
	+3%/-3%	+11%/-2%	+146%/-125%	+14%/-43%	+6%/-25%	+354%/-23%
Source	PHO1	FLK73	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 010735757-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-176 ± 32	$7.91^{+8.02}_{-5.07}$	1596^{+94}_{-164}	5554^{+4075}_{-1423}	101^{+701}_{-77}
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 $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

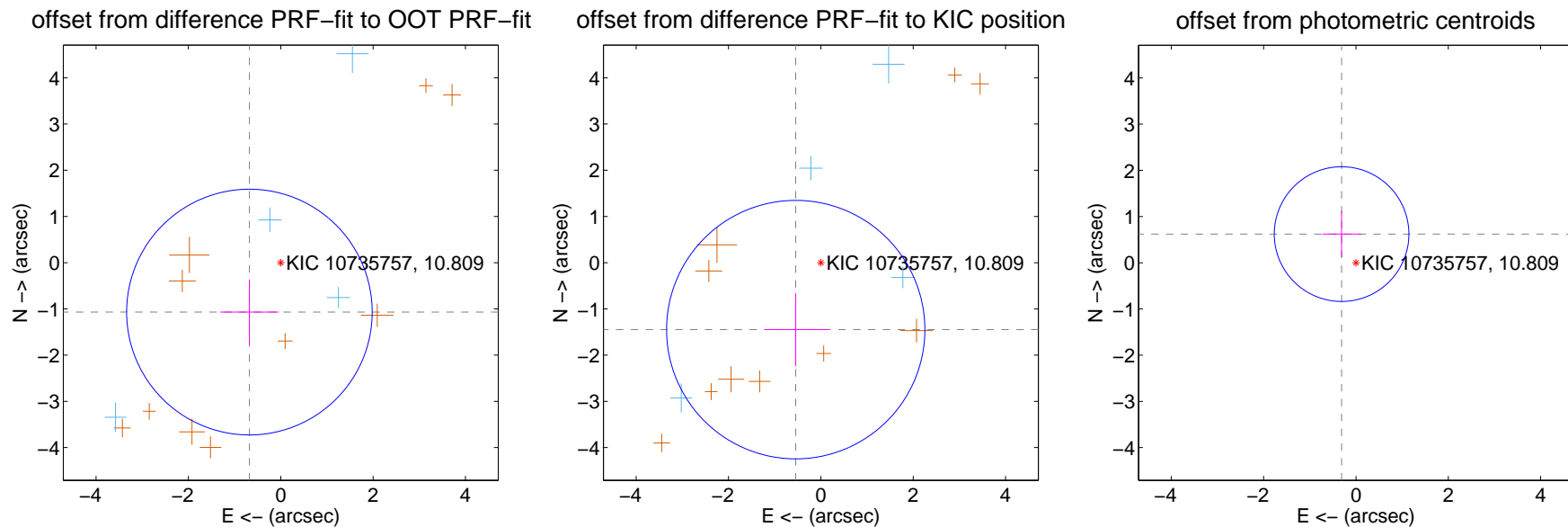
DV Centroid Data

Supplemental centroid analysis for 010735757-03. **Kepler magnitude: 10.81.** Transit SNR 14.67

There are 4 quarters with good PRF difference image offsets

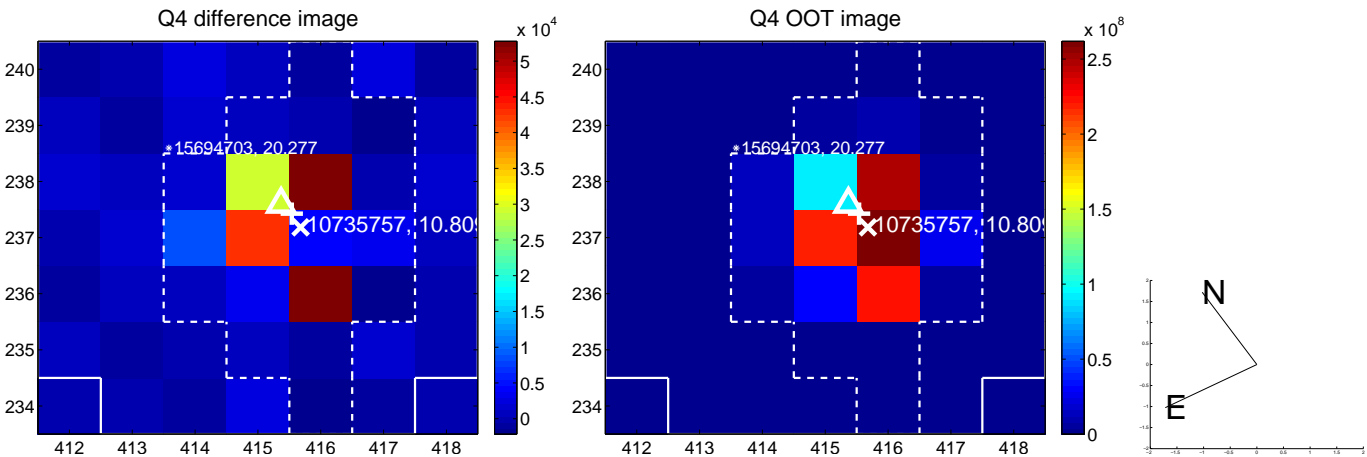
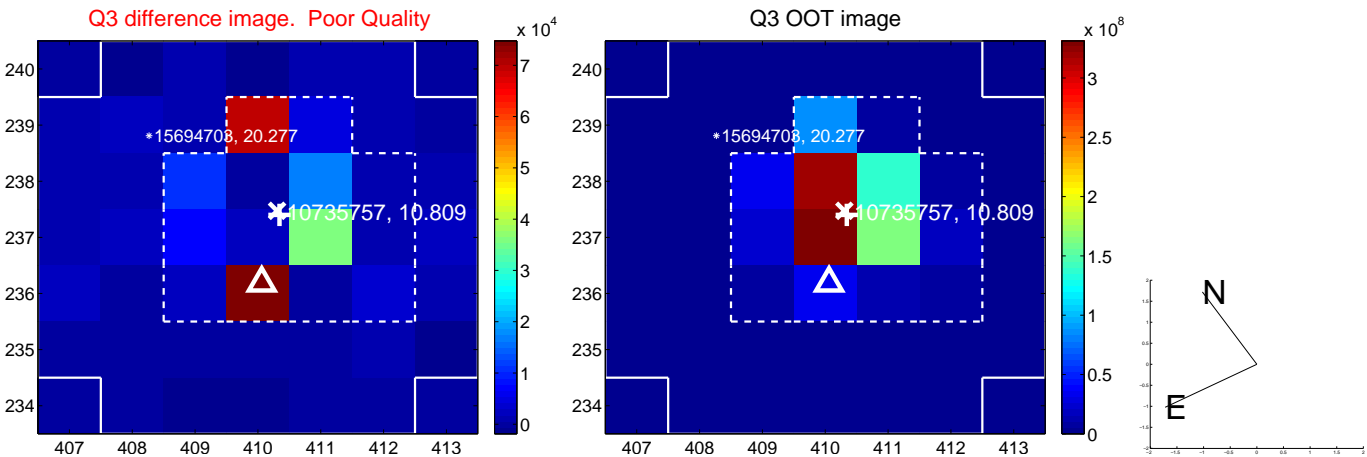
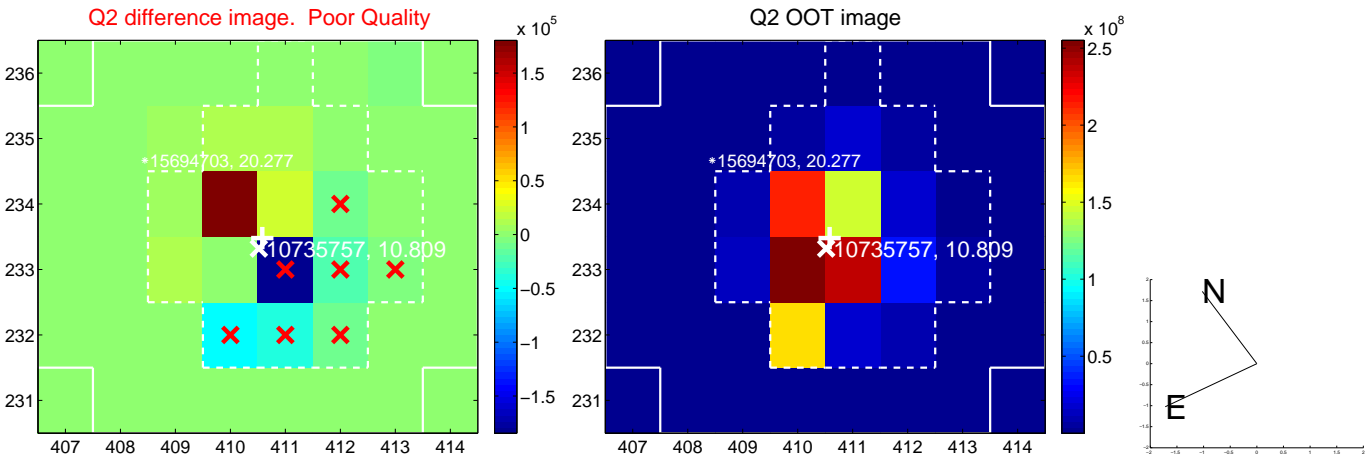
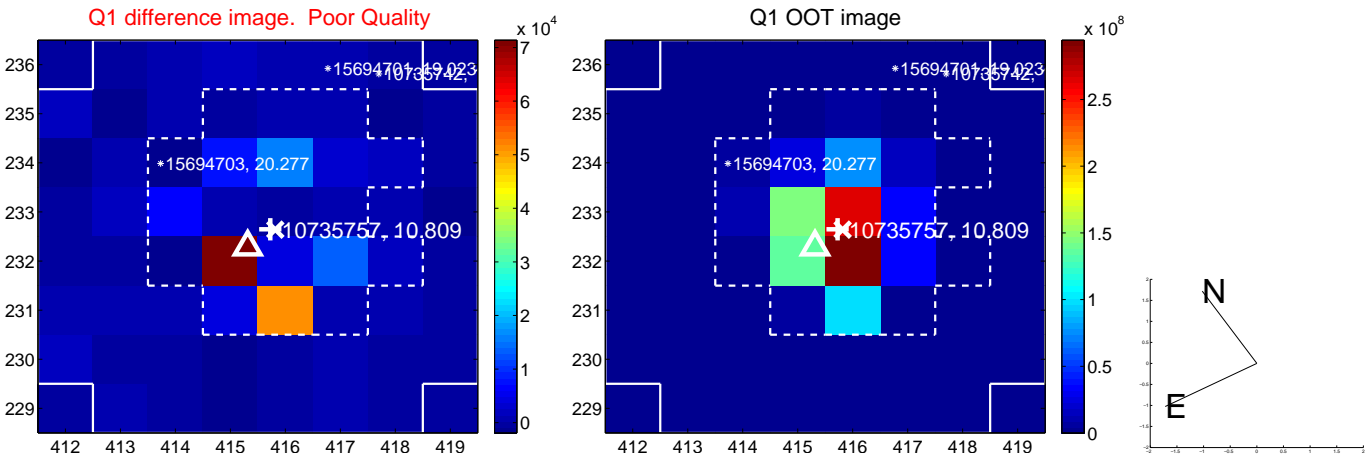
The direct PRF centroid is offset from the target star catalog position by about 0.35 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.266 ± 0.886	1.43	0.678 ± 0.633	-1.068 ± 0.704
PRF-fit source offset from KIC position	1.547 ± 0.932	1.66	0.544 ± 0.674	-1.448 ± 0.789
photometric centroid source offset	0.69 ± 0.49	1.43	0.31 ± 0.42	0.62 ± 0.50

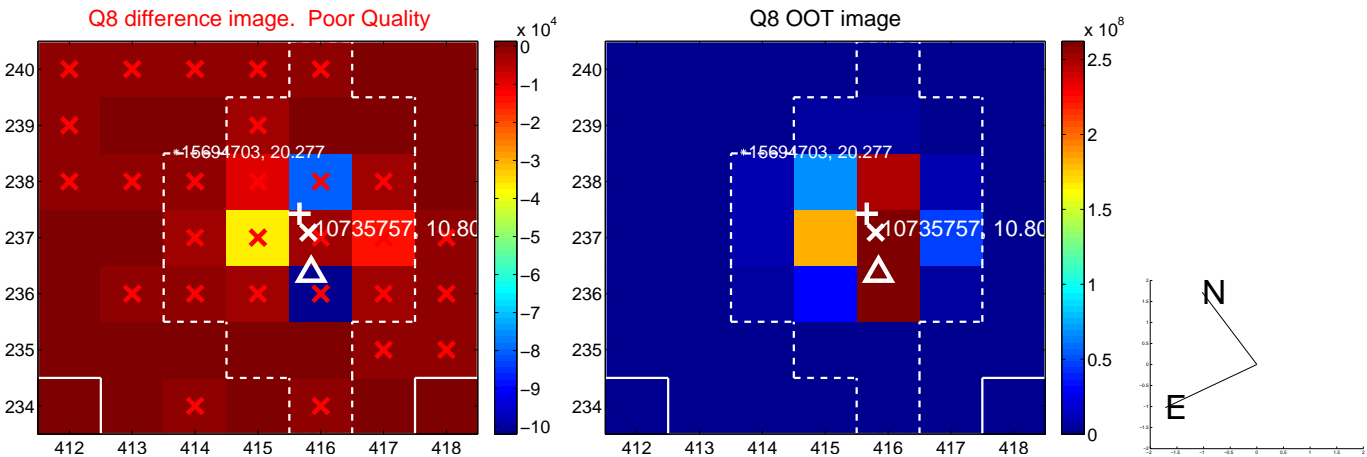
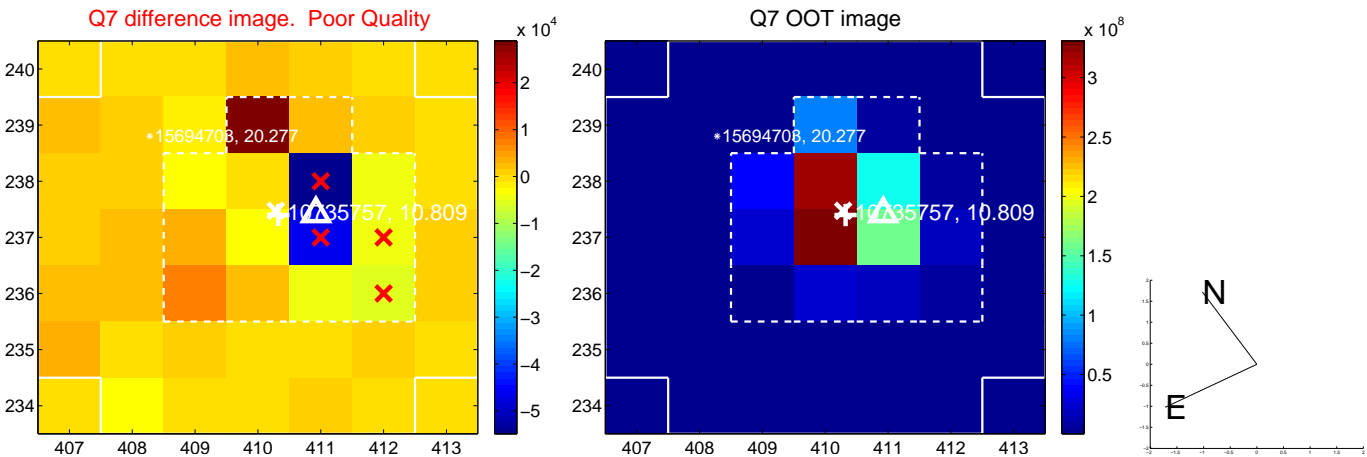
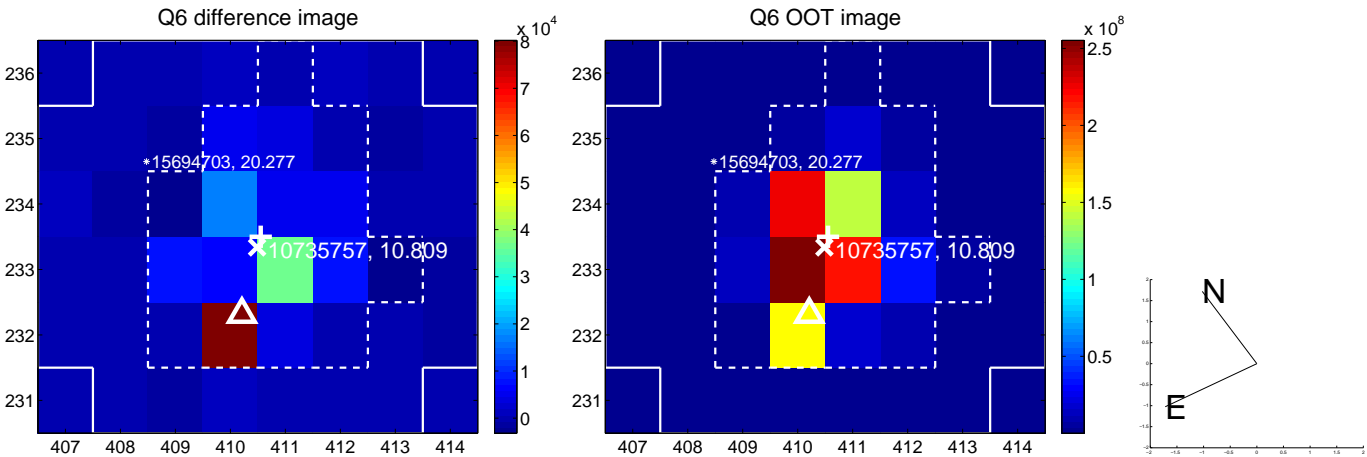
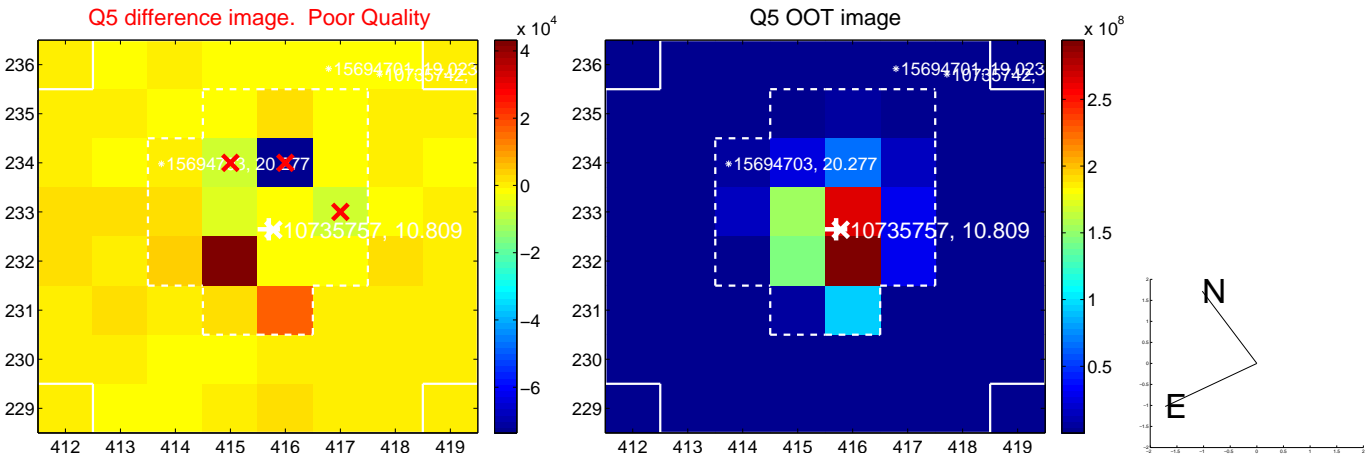


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

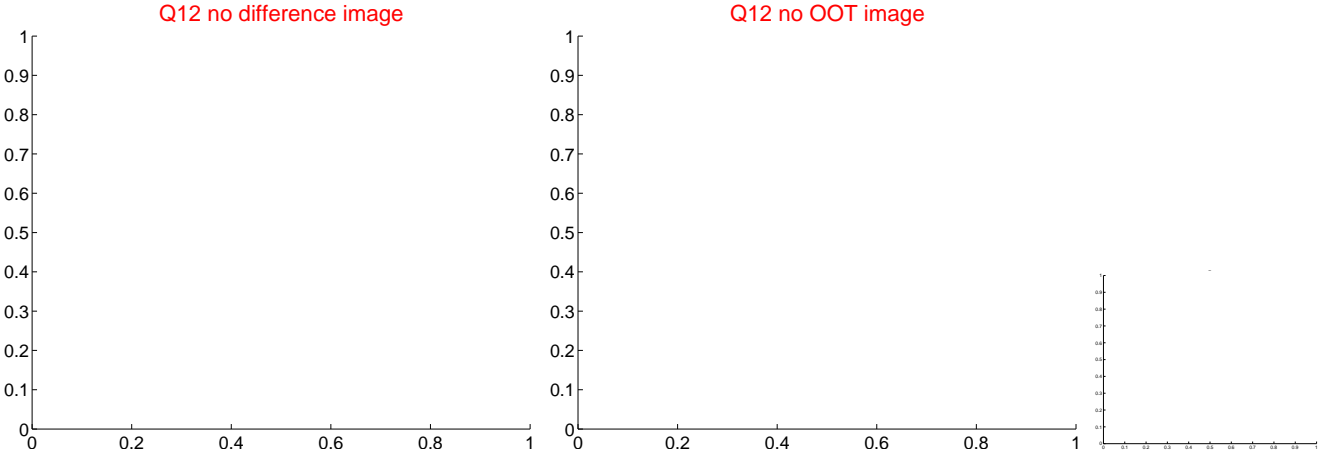
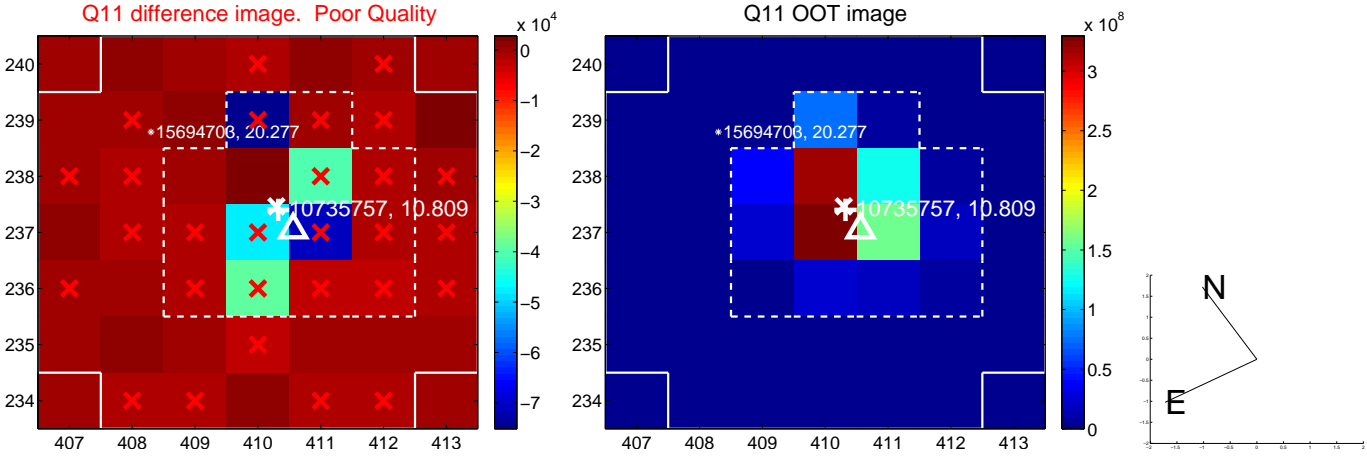
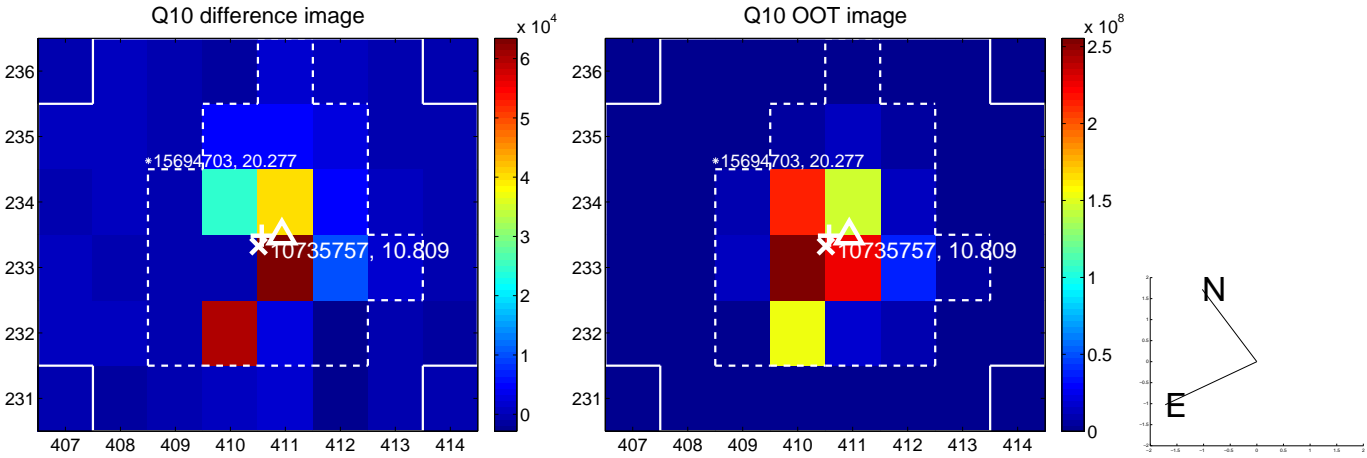
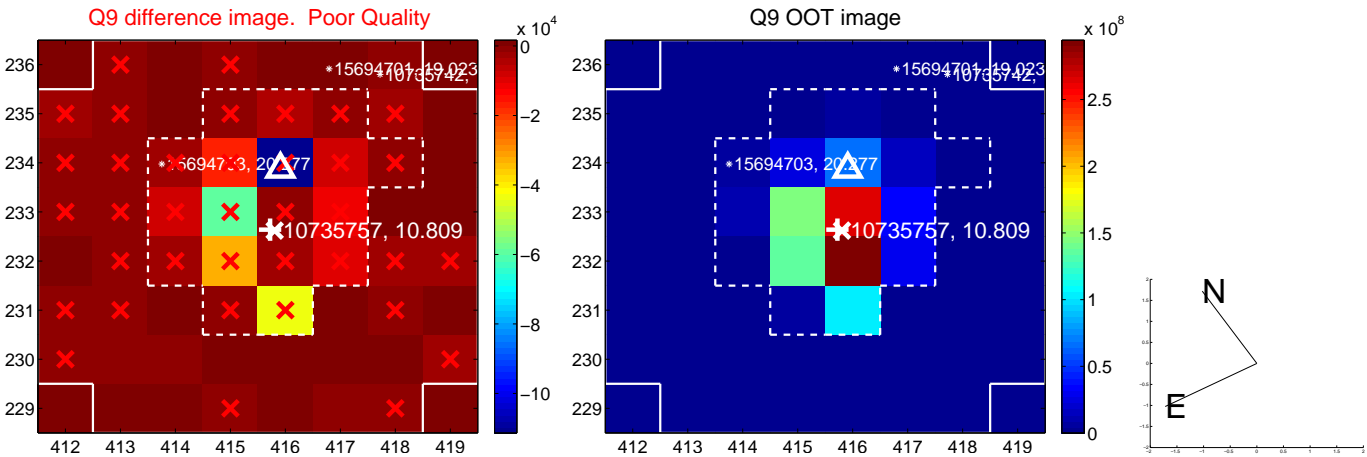
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



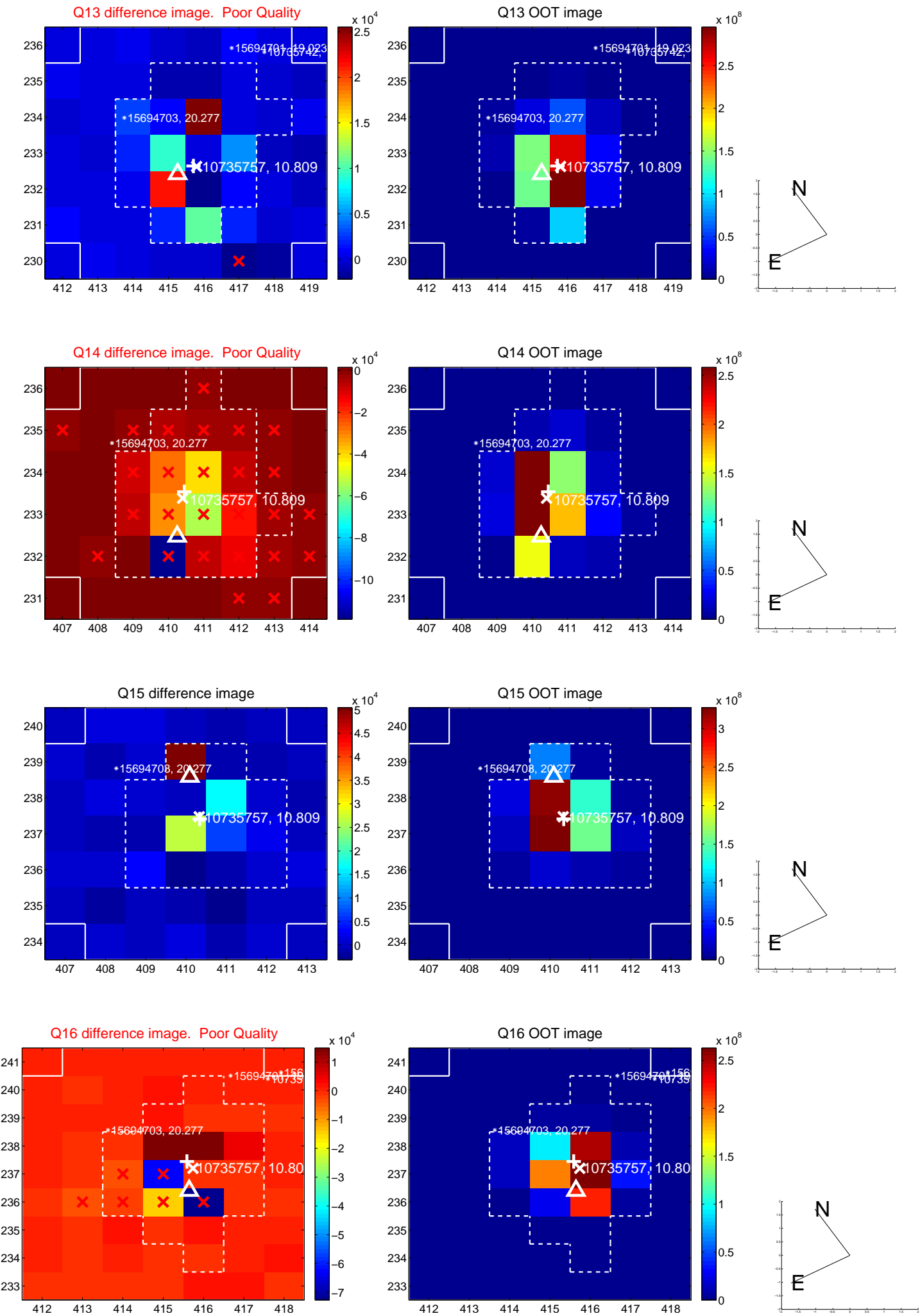
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



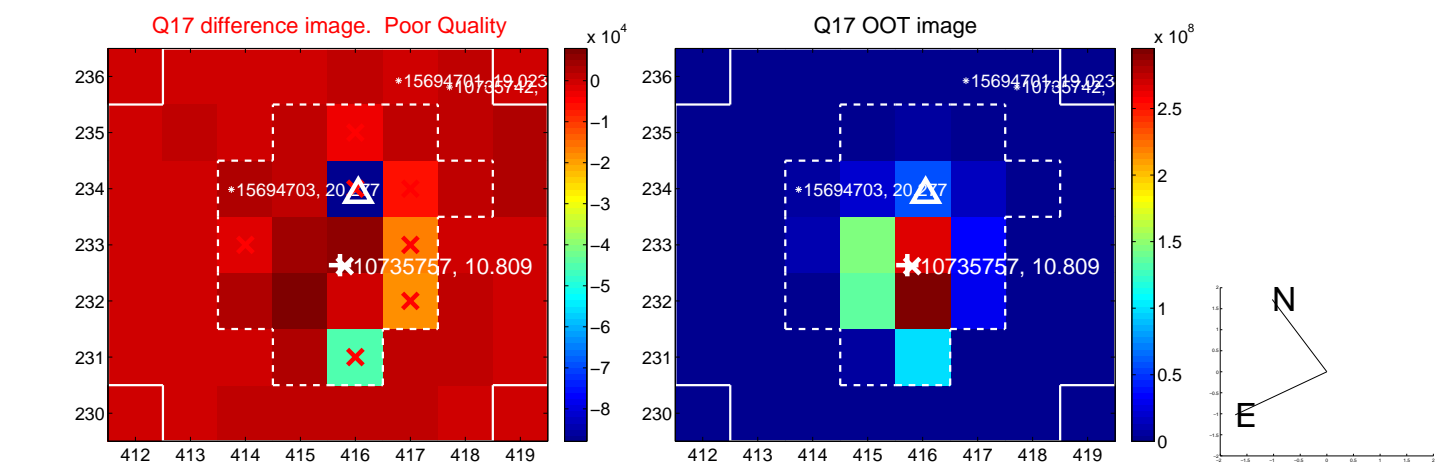
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



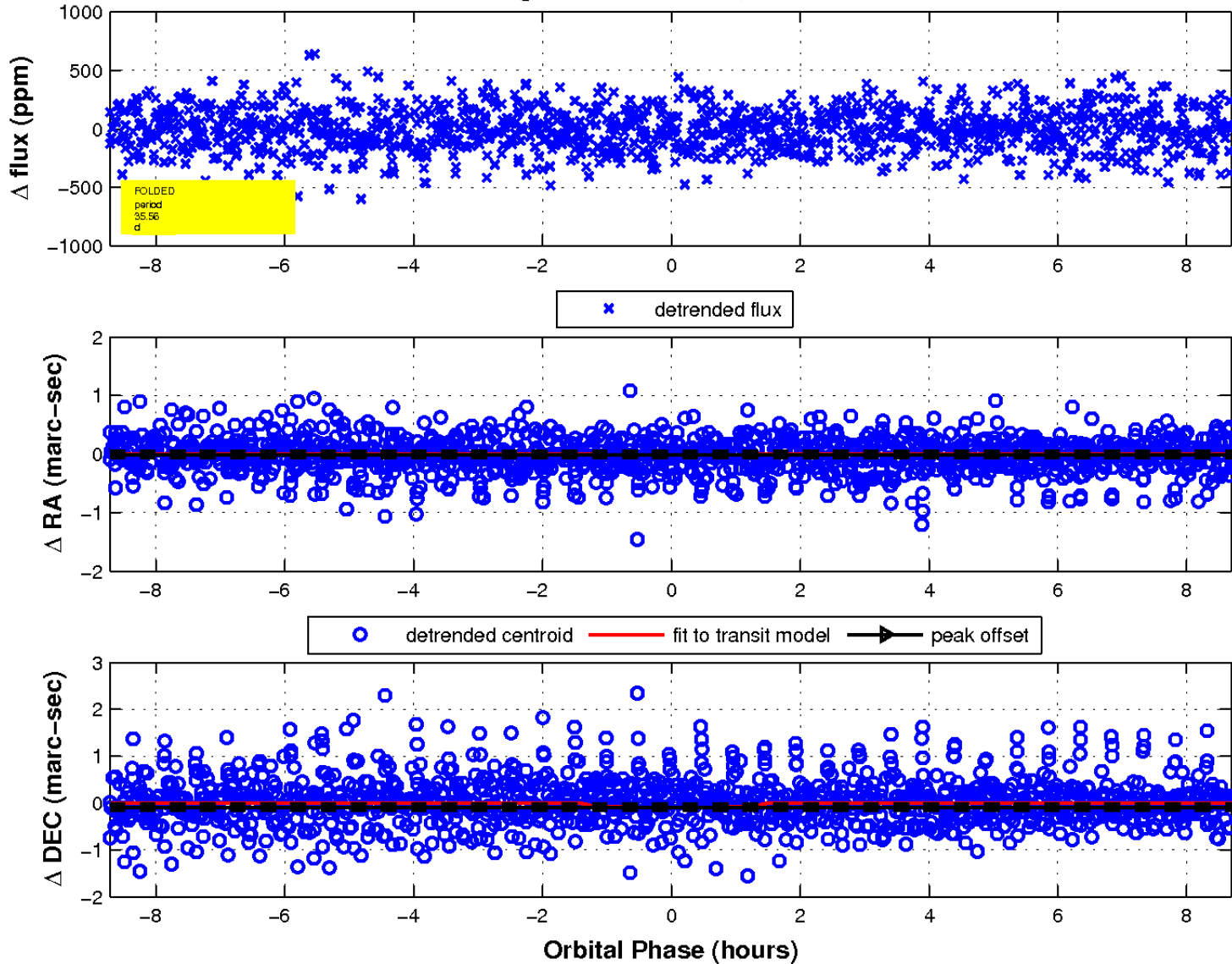
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

