

KIC 007257373

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})
007257373-01	OBS	6034.01	5.233497	133.118434	456829.9	4.500	50310.2	-1.0	0.98	5841	51.92	287.77
007257373-02	OBS	No	5.233613	134.187790	7317.6	15.000	2098.9	-1.0	0.98	5841	8.29	287.76
007257373-03	OBS	No	2.616413	132.730196	12847.3	7.500	526.1	-1.0	0.98	5841	10.99	725.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007257373-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
007257373-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
007257373-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—RESIDUAL_TCE—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.

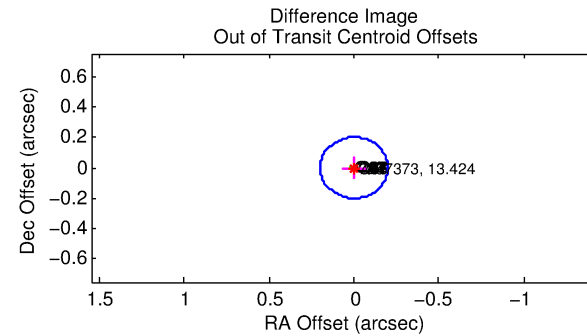
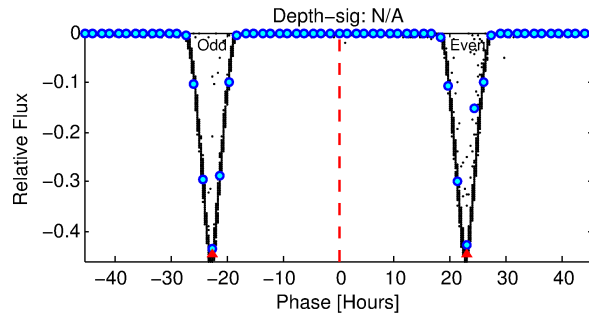
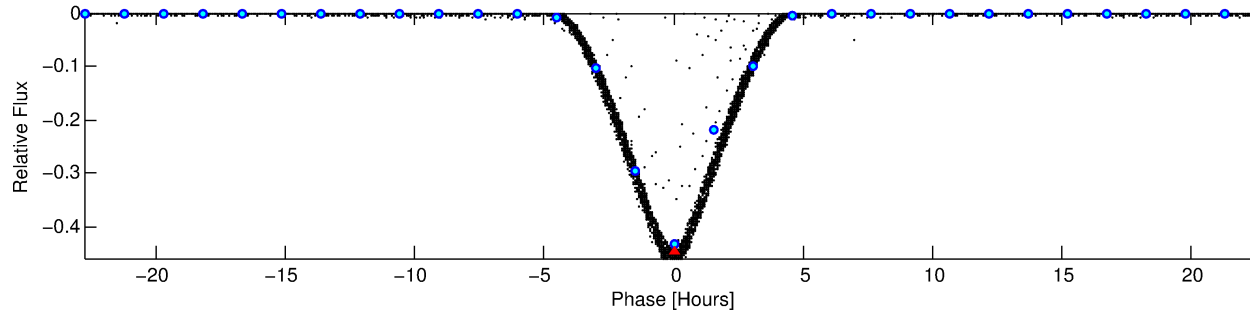
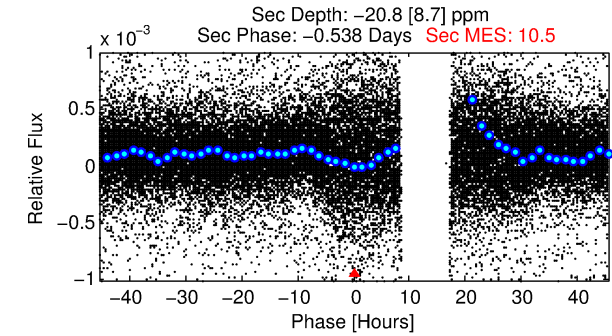
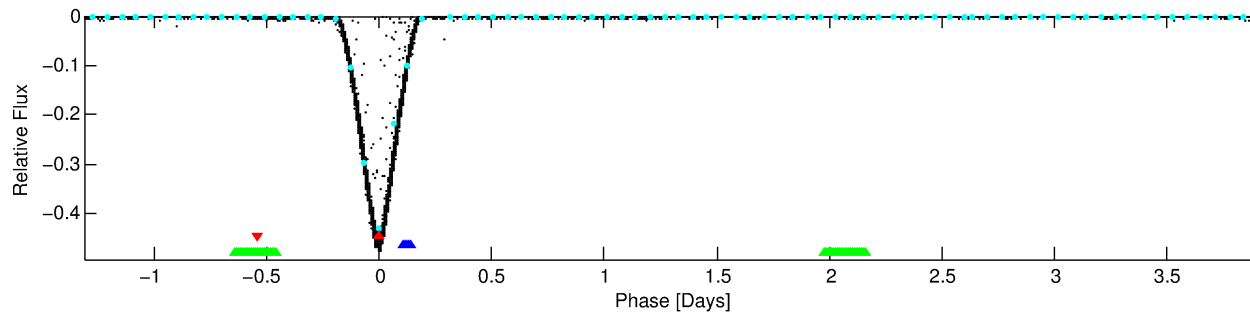
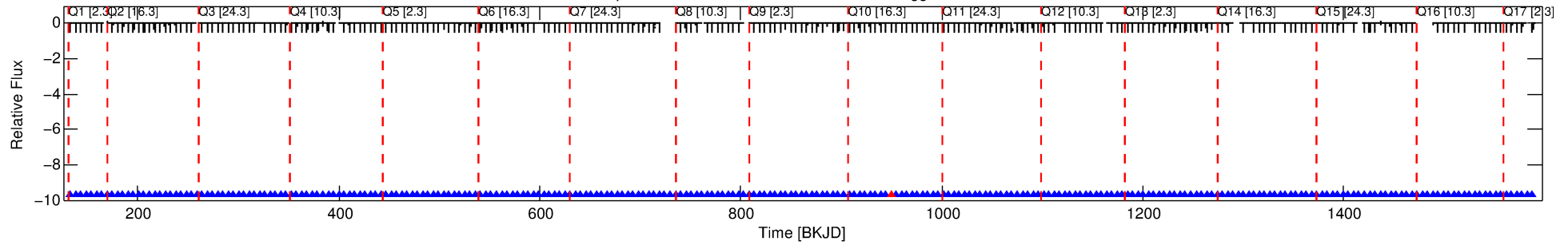
Ephemeris Match Information For 007257373-01

No Significant Match Found

DV One-Page Summary

KIC: 7257373 Candidate: 1 of 3 Period: 5.233 d
KOI: K06034 Corr: No Ephemeris Match

Kp: 13.42 R*: 0.98 Rs Teff: 5841.0 K Logg: 4.45 Fe/H: -0.020



TPS TCE Results:

Period = 5.23350 d
Epoch = 133.1184 BKJD

DV fit results are unavailable

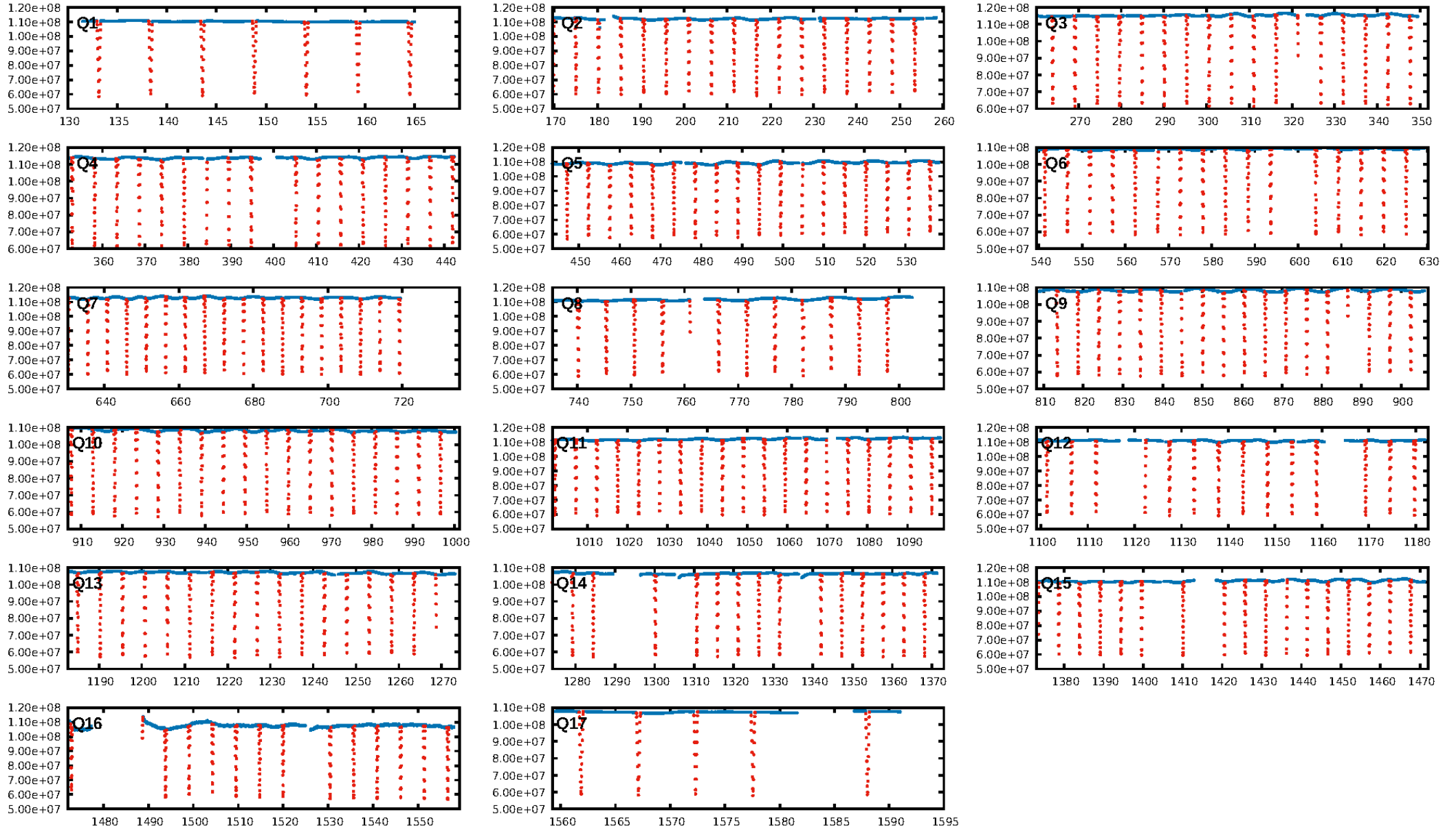
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [7.18 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [245/246]
GhostDiagnostic-chr: 0.9793
Centroid-sig: 0.0%
Centroid-so: 0.340 arcsec [1135.68 σ]
OotOffset-rm: 0.002 arcsec [0.03 σ]
KicOffset-rm: 0.095 arcsec [1.40 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]

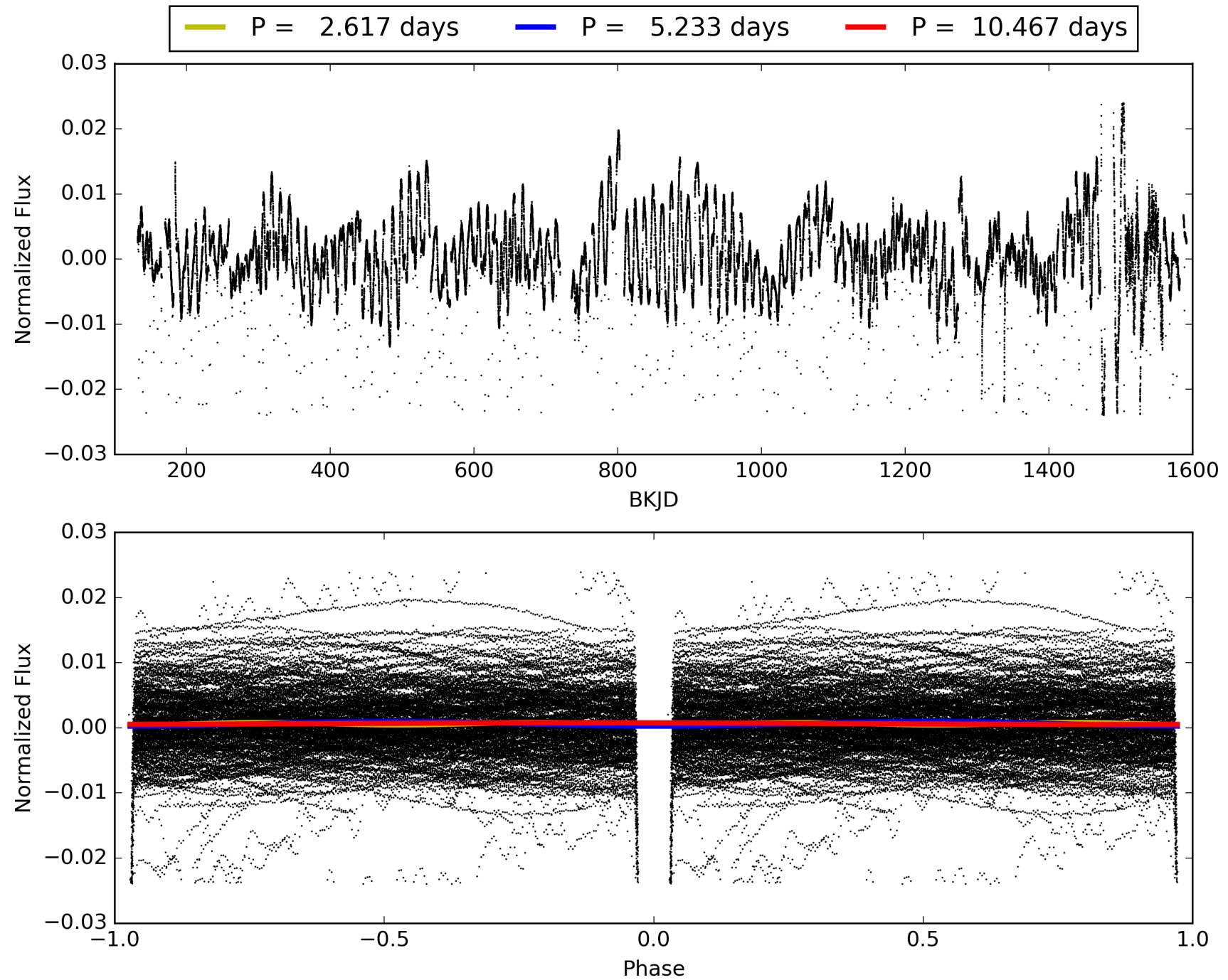
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:38:46 Z

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

TCE 007257373-01, PDC Light Curves

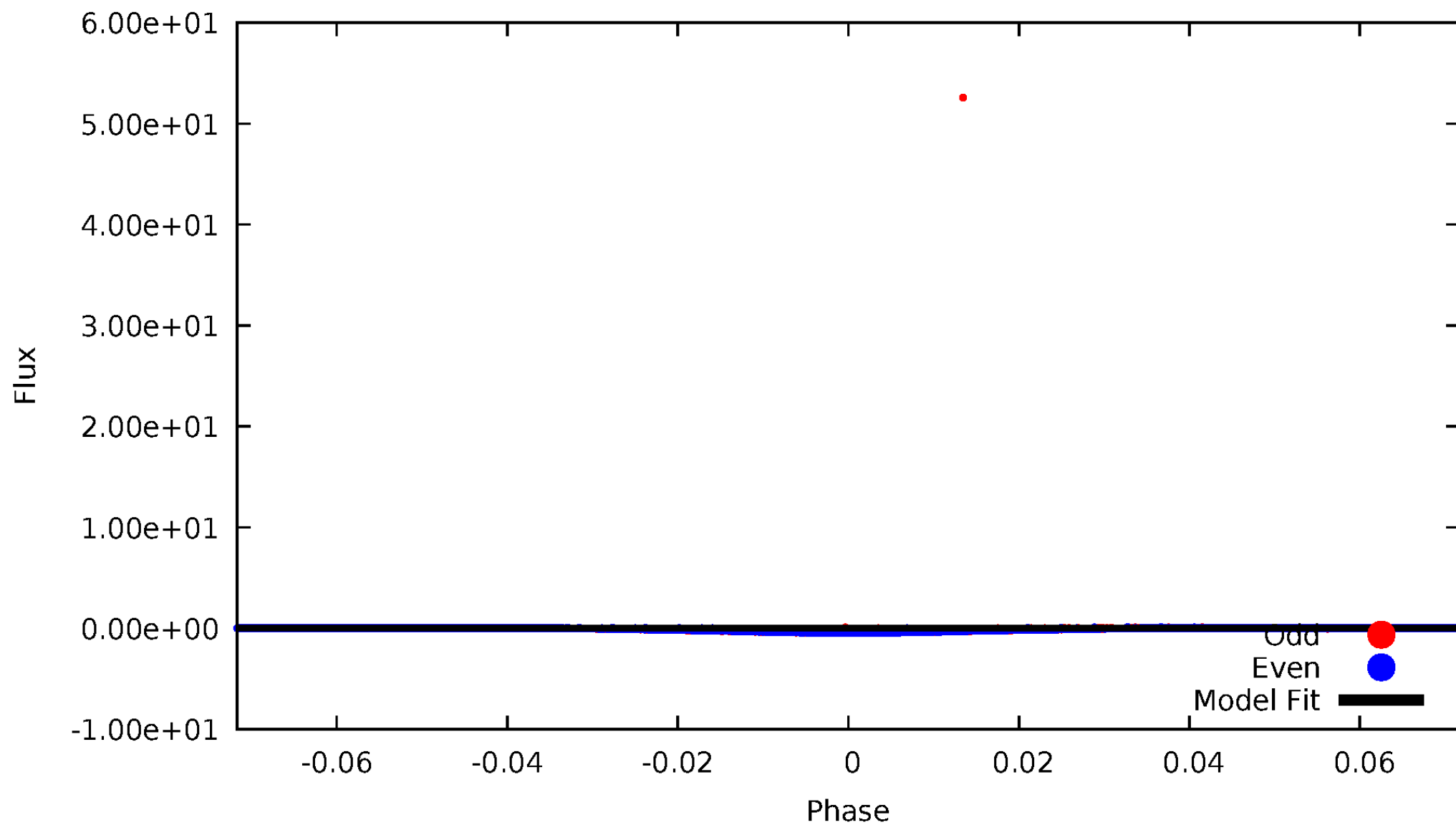


TCE 007257373-01



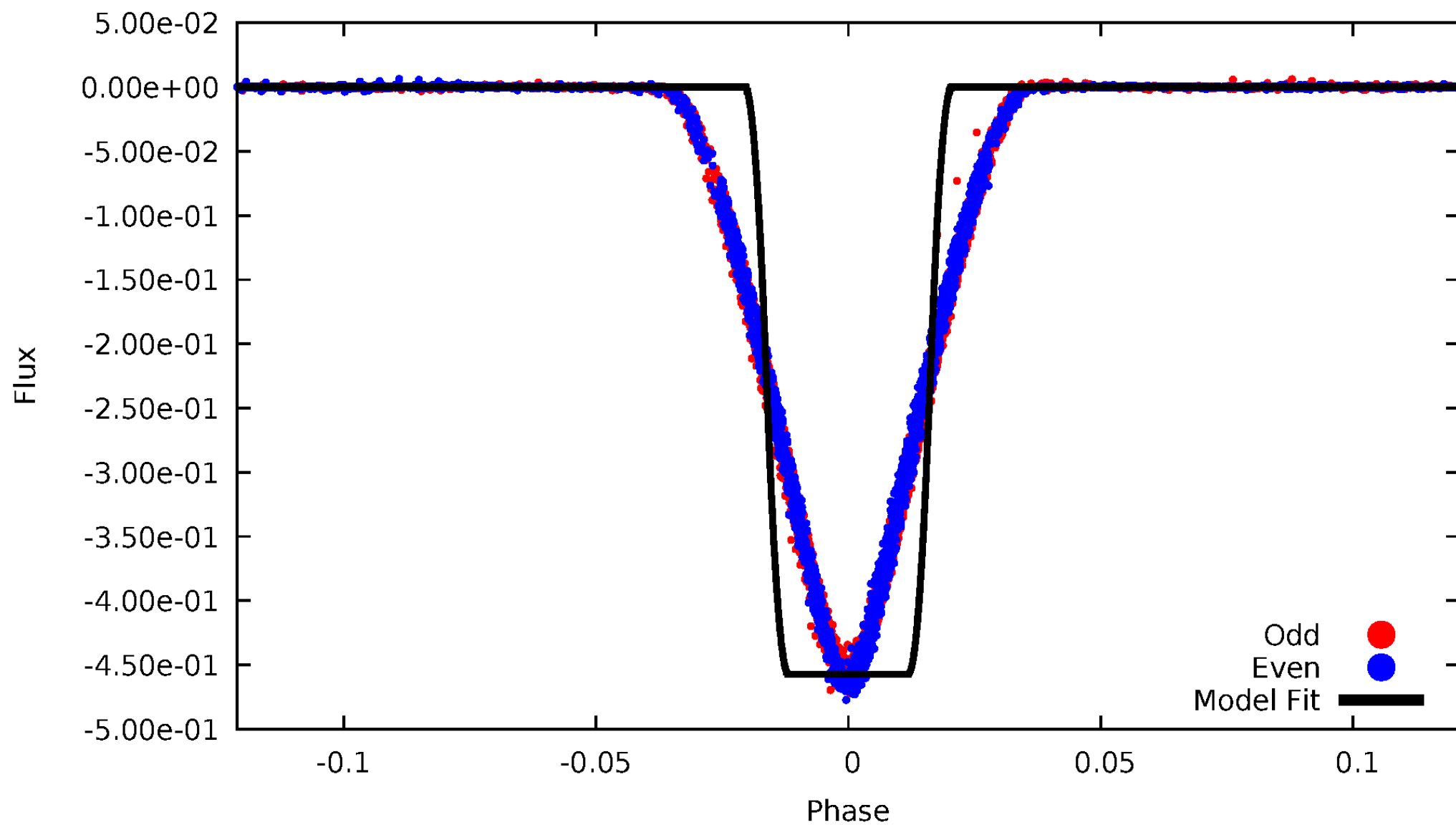
DV Odd/Even

TCE 007257373-01



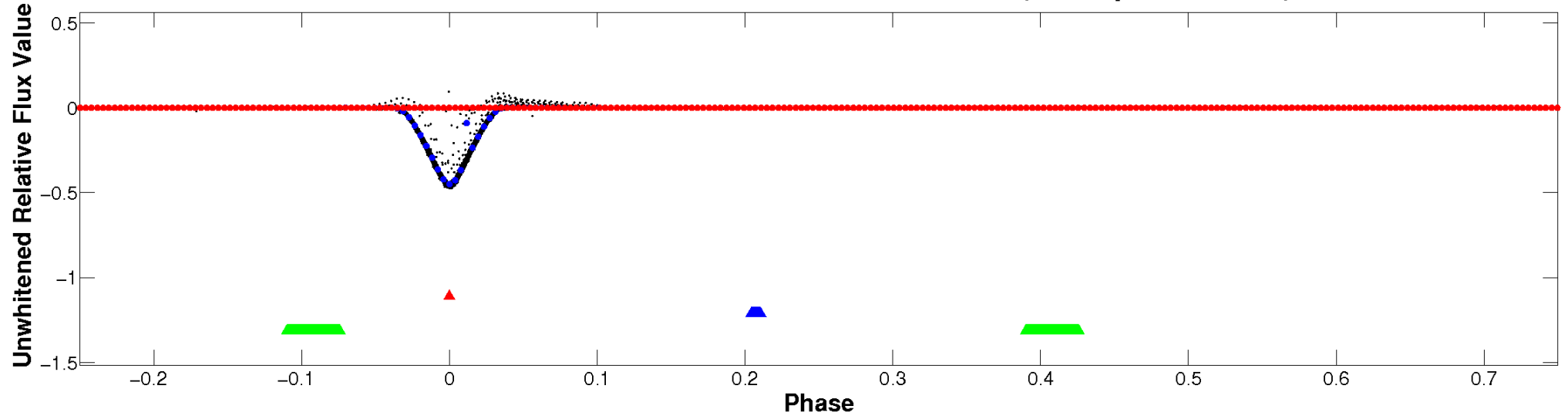
ALT Odd/Even

TCE 007257373-01

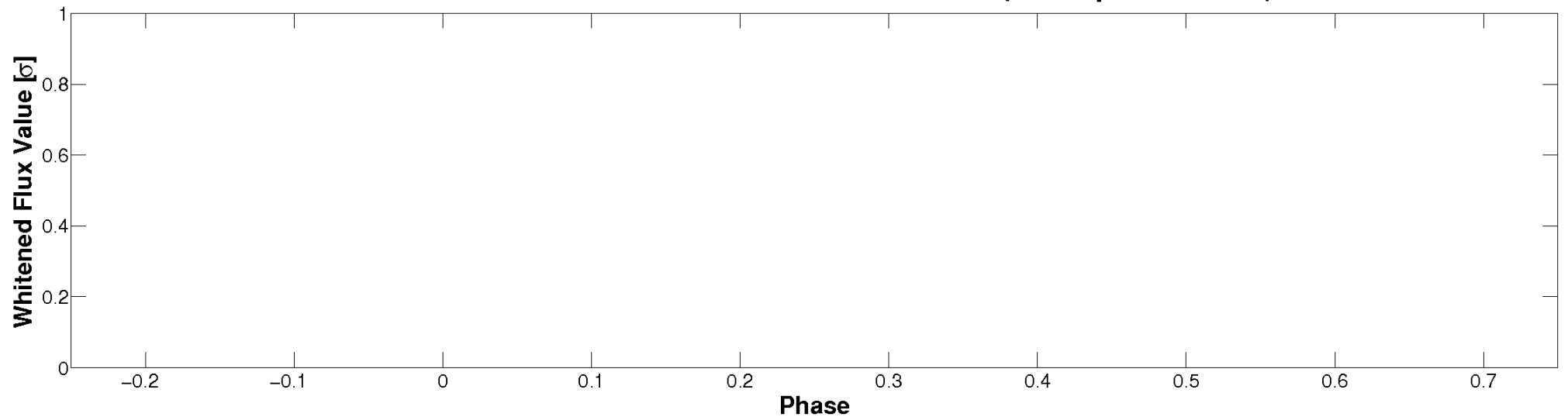


Non-Whitened Vs. Whitened Light Curve

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

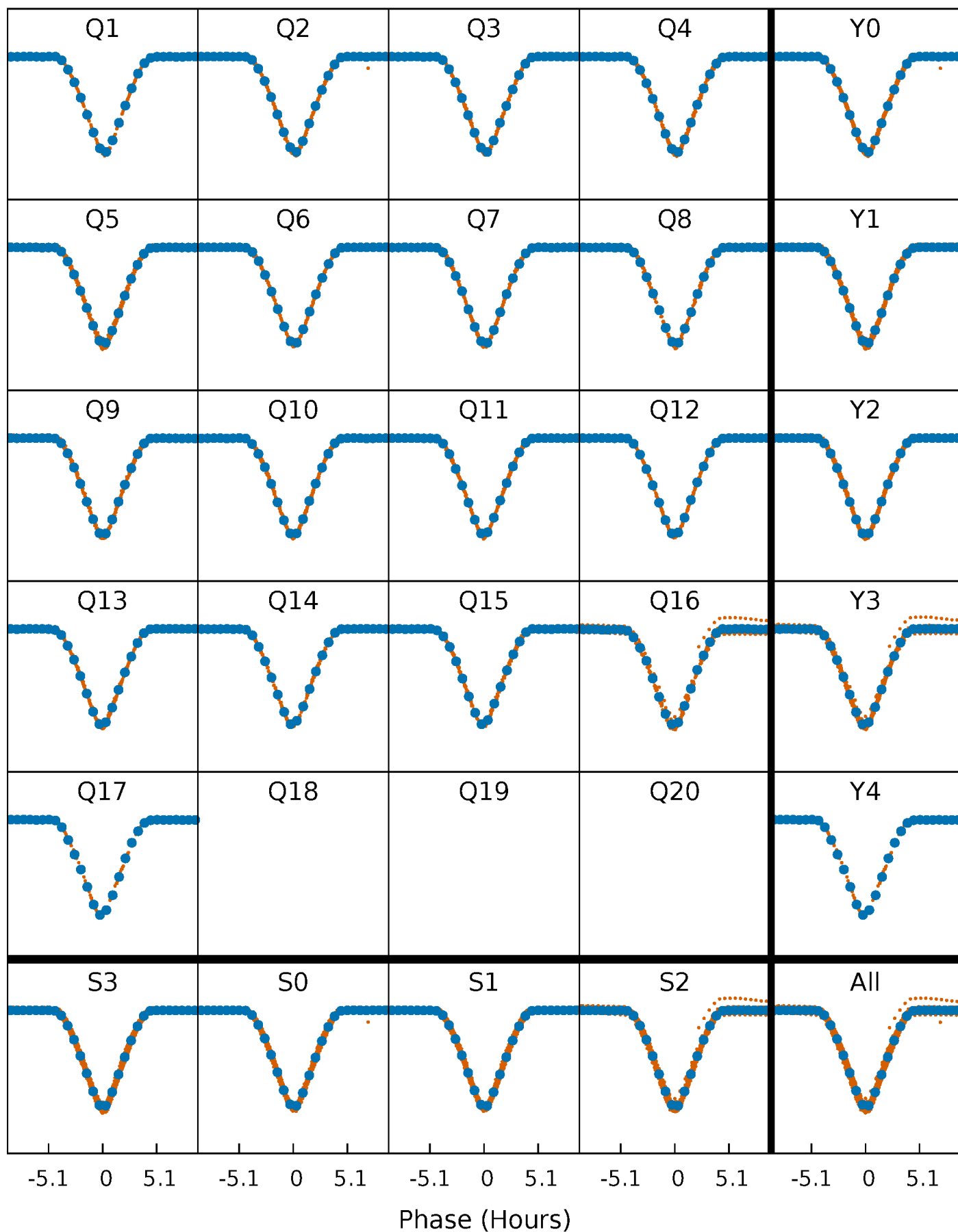


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



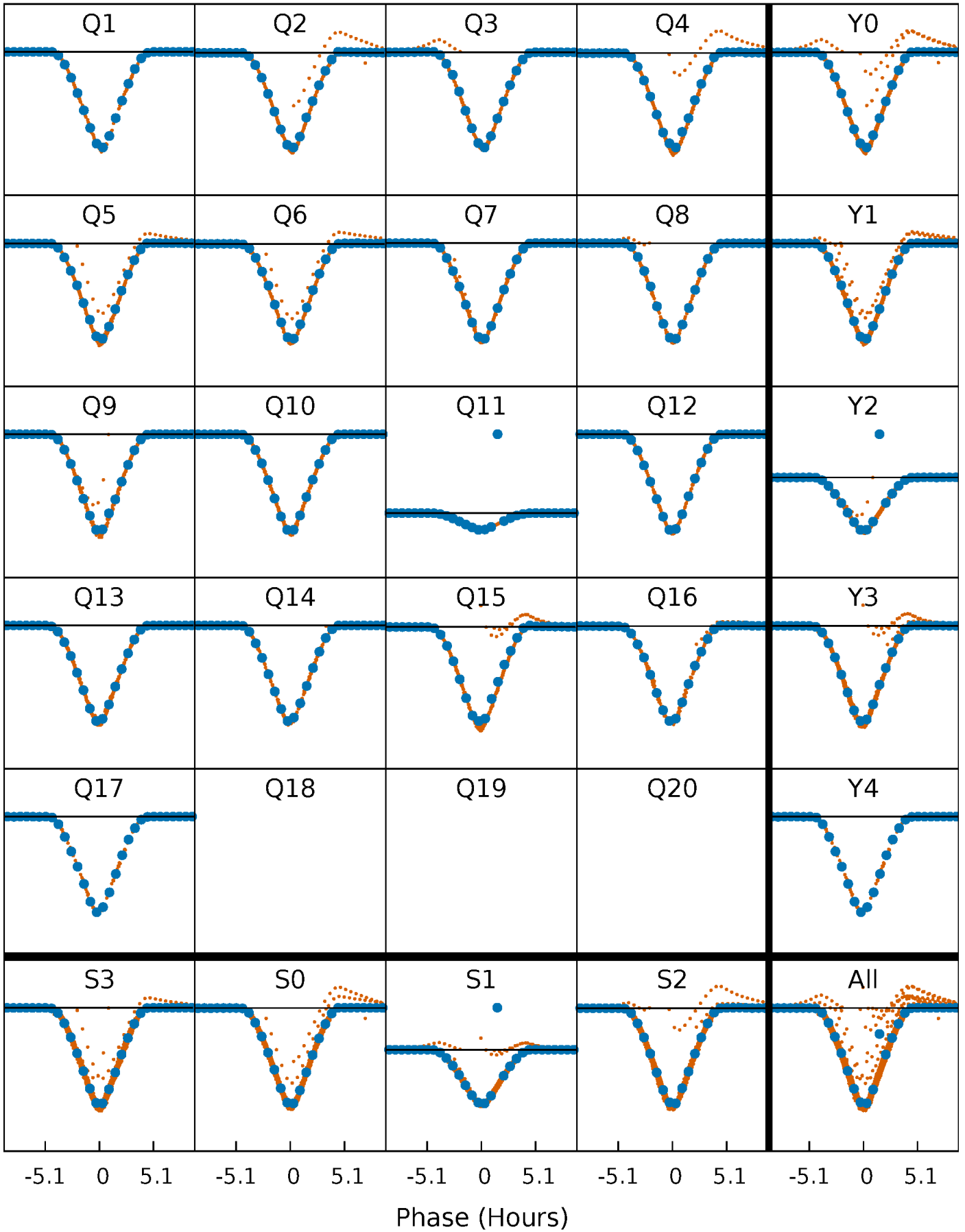
PDC Quarter-Phased Transit Curves

TCE 007257373-01 P= 5.233497 Days $T_0=133.118434$ (BKJD)



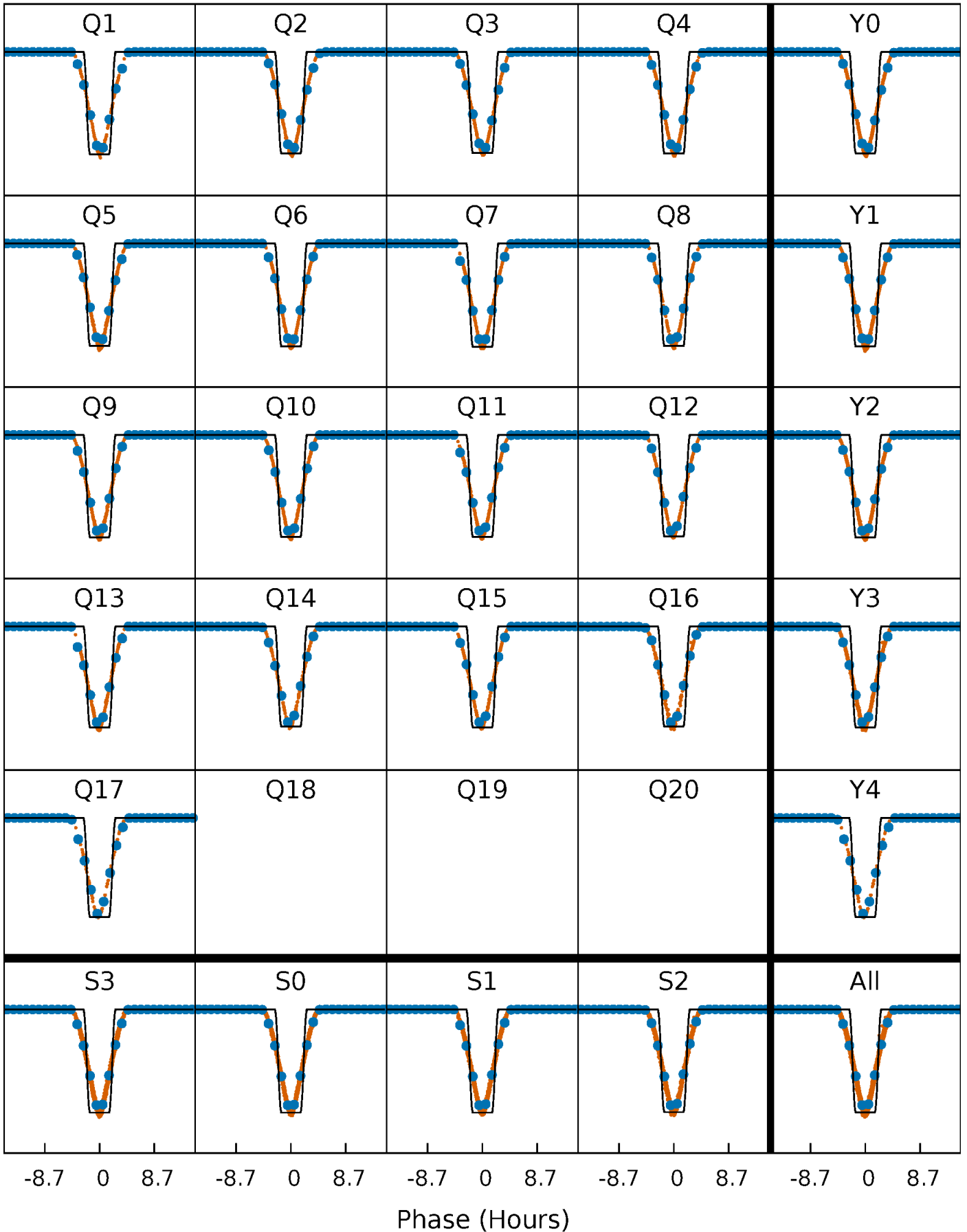
DV Quarter-Phased Transit Curves

TCE 007257373-01 P= 5.233497 Days $T_0=133.118434$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

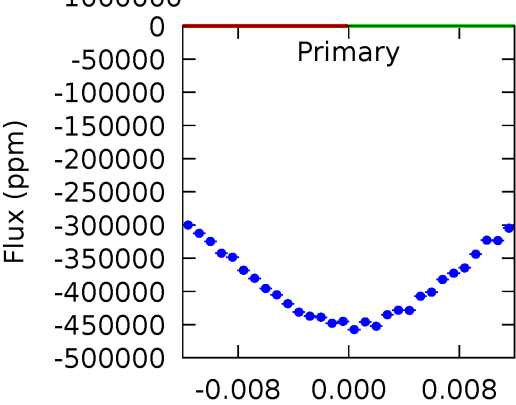
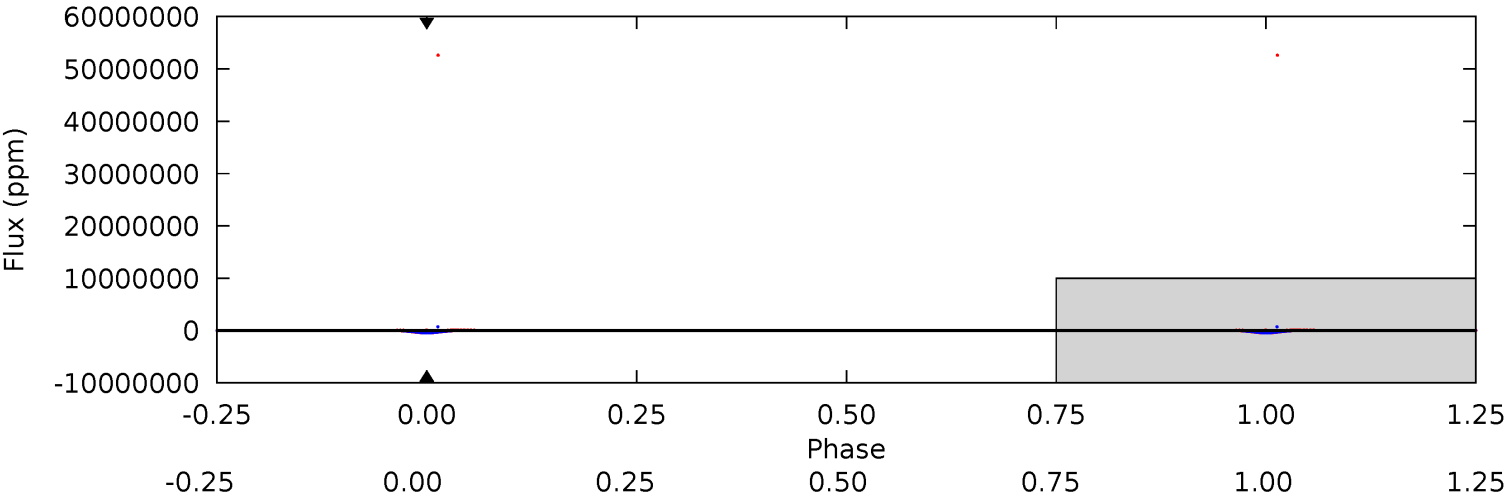
TCE 007257373-01 P= 5.233497 Days $T_0=133.120643$ (BKJD)



DV Model-Shift Uniqueness Test

007257373-01, P = 5.233497 Days, E = 127.884937 Days

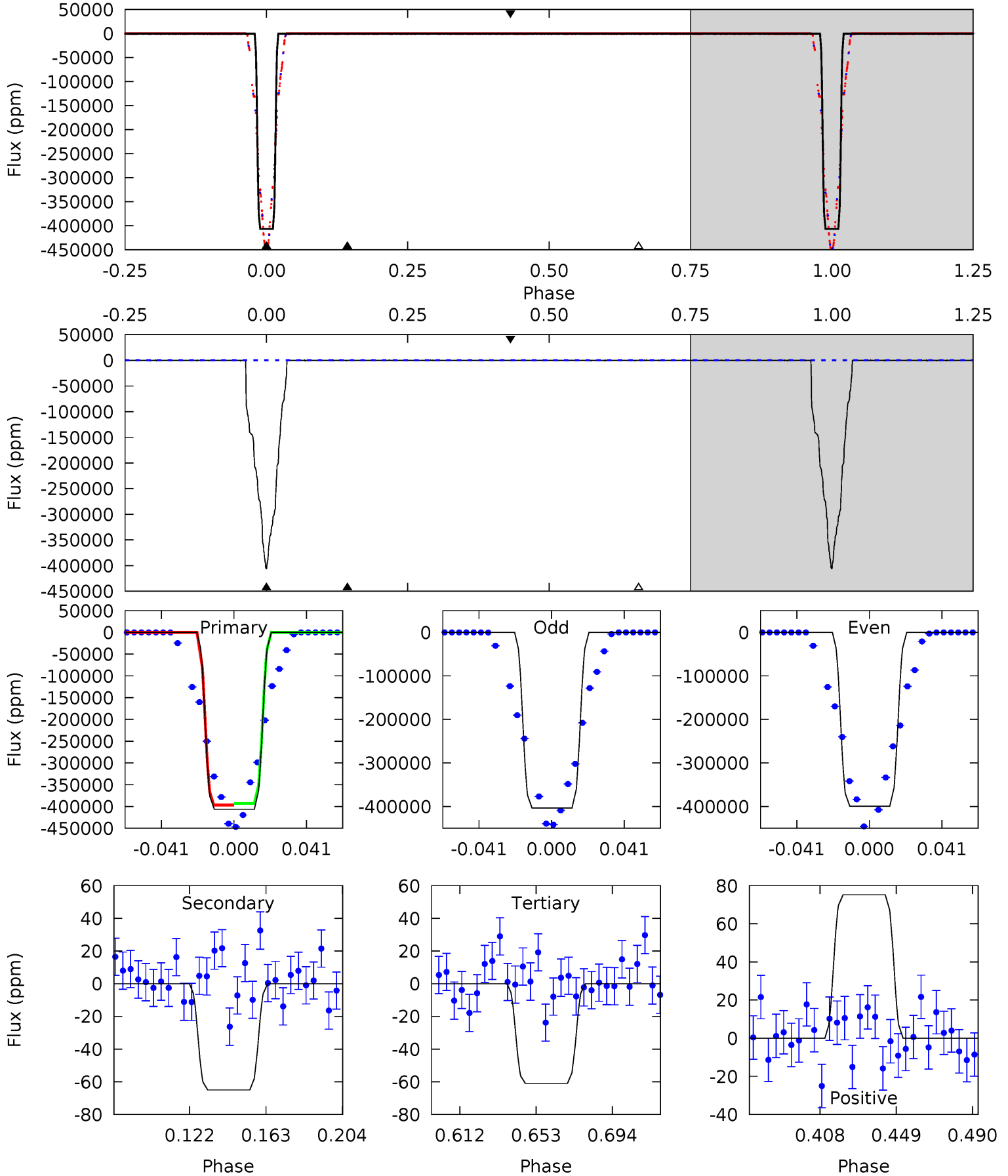
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007257373-01, P = 5.233497 Days, E = 127.887146 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24172	3.86	3.63	4.47	4.75	2.05	1.17	24168	24167	0.24	-0.61	121.1	1.00	0.00	112.4



Stellar Parameters For KIC 007257373

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5841^{+164}_{-205}	$4.454^{+0.067}_{-0.202}$	$-0.020^{+0.250}_{-0.300}$	$0.977^{+0.291}_{-0.104}$	$0.992^{+0.128}_{-0.117}$	$1.496^{+0.531}_{-0.760}$
	+3%/-4%	+2%/-5%	+1250%/-1500%	+30%/-11%	+13%/-12%	+36%/-51%
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 007257373-01 / KOI 6034.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$54.01^{+12.84}_{-11.88}$	1488^{+116}_{-74}	2593^{+2342}_{-7348}	$1.616^{+71.030}_{-64.444}$
Alt.	-65 ± 17	$75.03^{+14.73}_{-12.97}$	1487^{+105}_{-72}	-2157^{+51}_{-71}	$0.021^{+0.012}_{-0.007}$

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 $A_{obs} \gg 1.0$

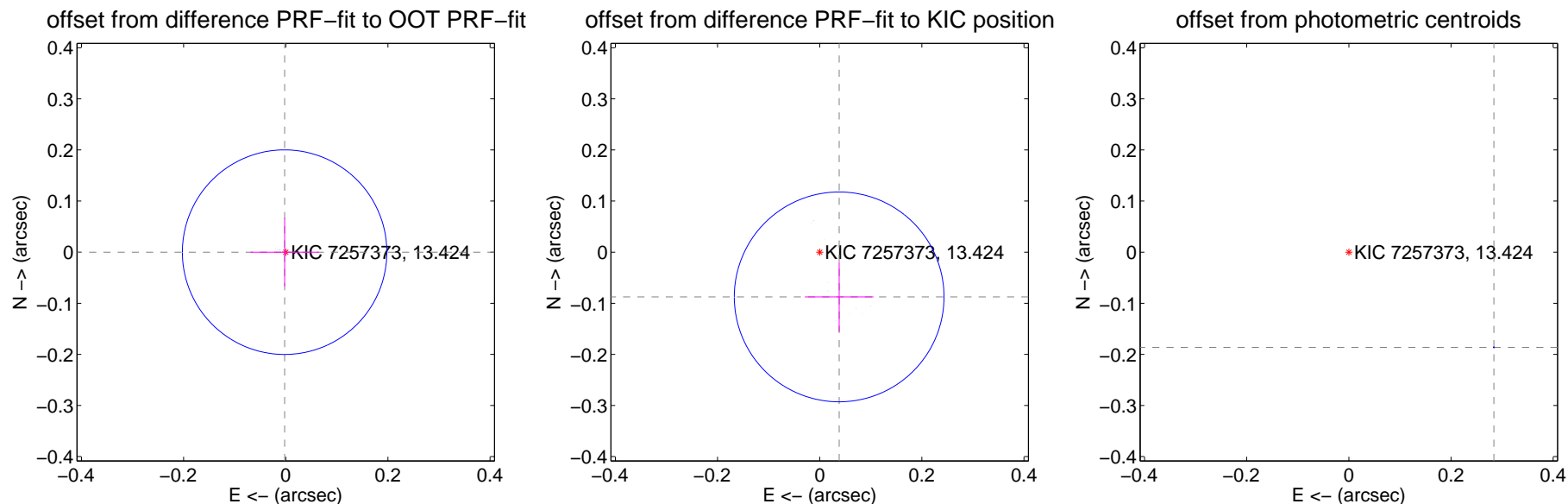
DV Centroid Data

Supplemental centroid analysis for 007257373-01. Kepler magnitude: 13.42. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

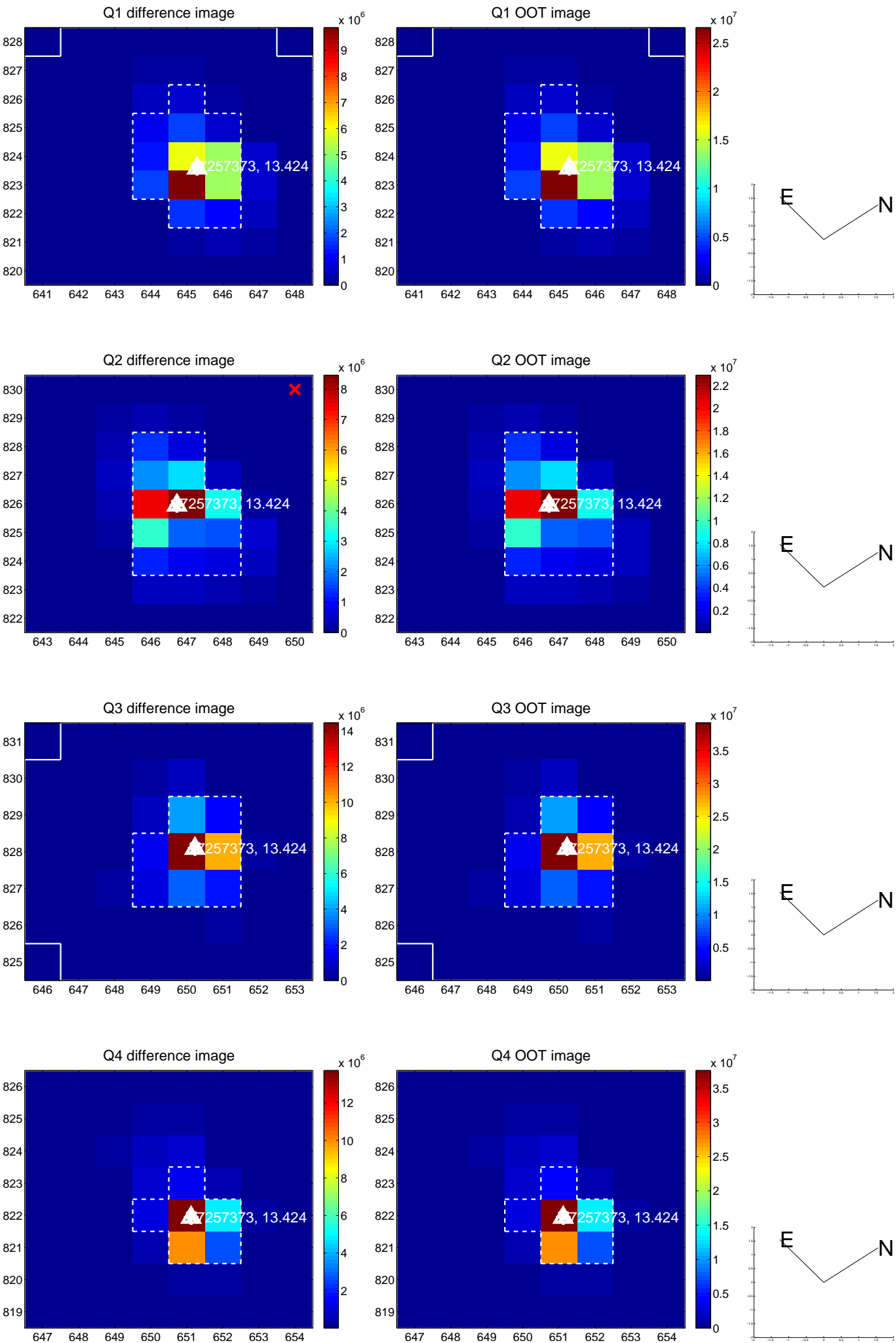
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.002 ± 0.067	0.03	0.002 ± 0.067	-0.000 ± 0.067
PRF-fit source offset from KIC position	0.095 ± 0.068	1.40	-0.038 ± 0.067	-0.088 ± 0.068
photometric centroid source offset	0.34 ± 0.00	1135.68	-0.28 ± 0.00	-0.19 ± 0.00

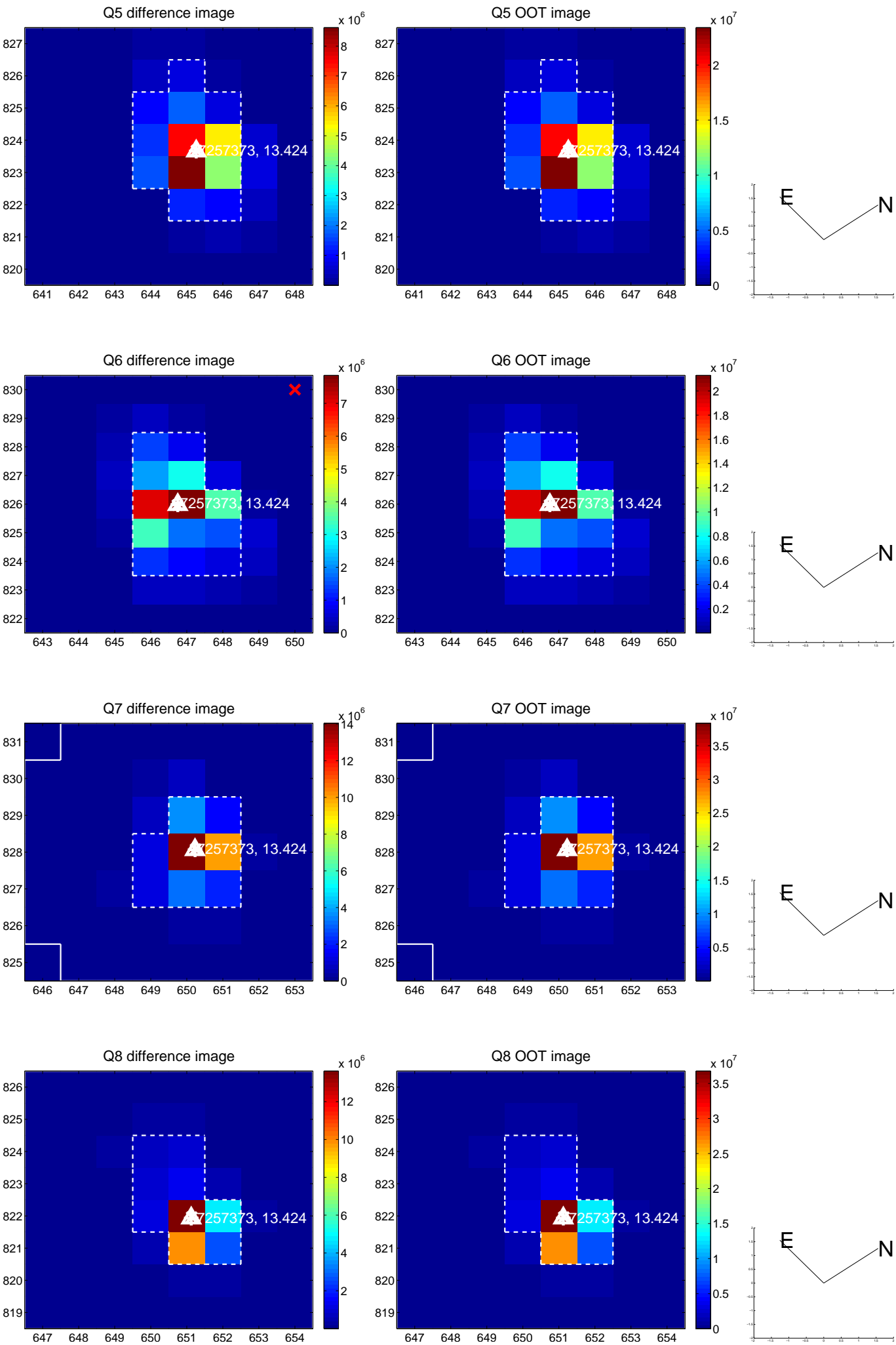


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

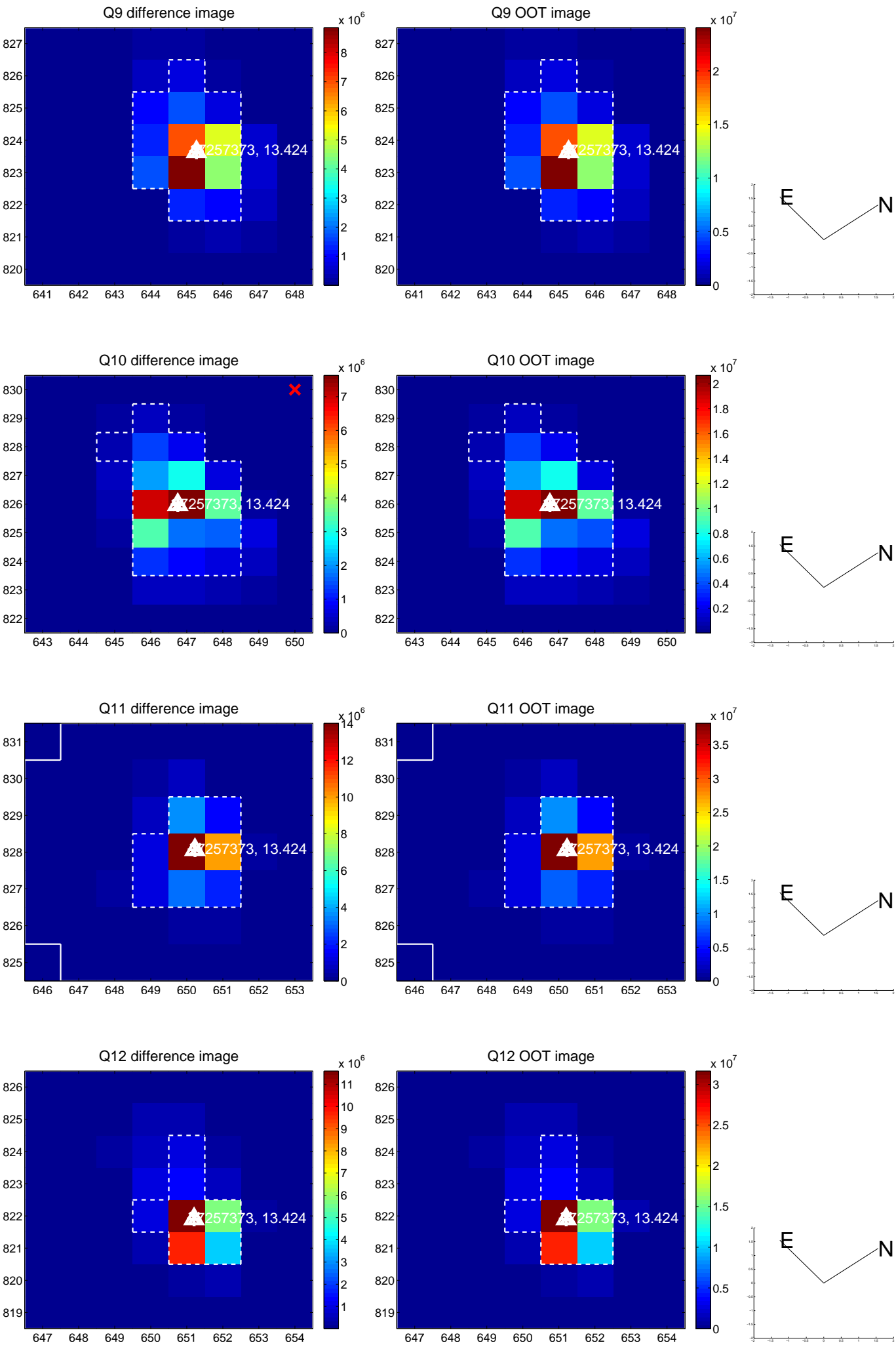
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



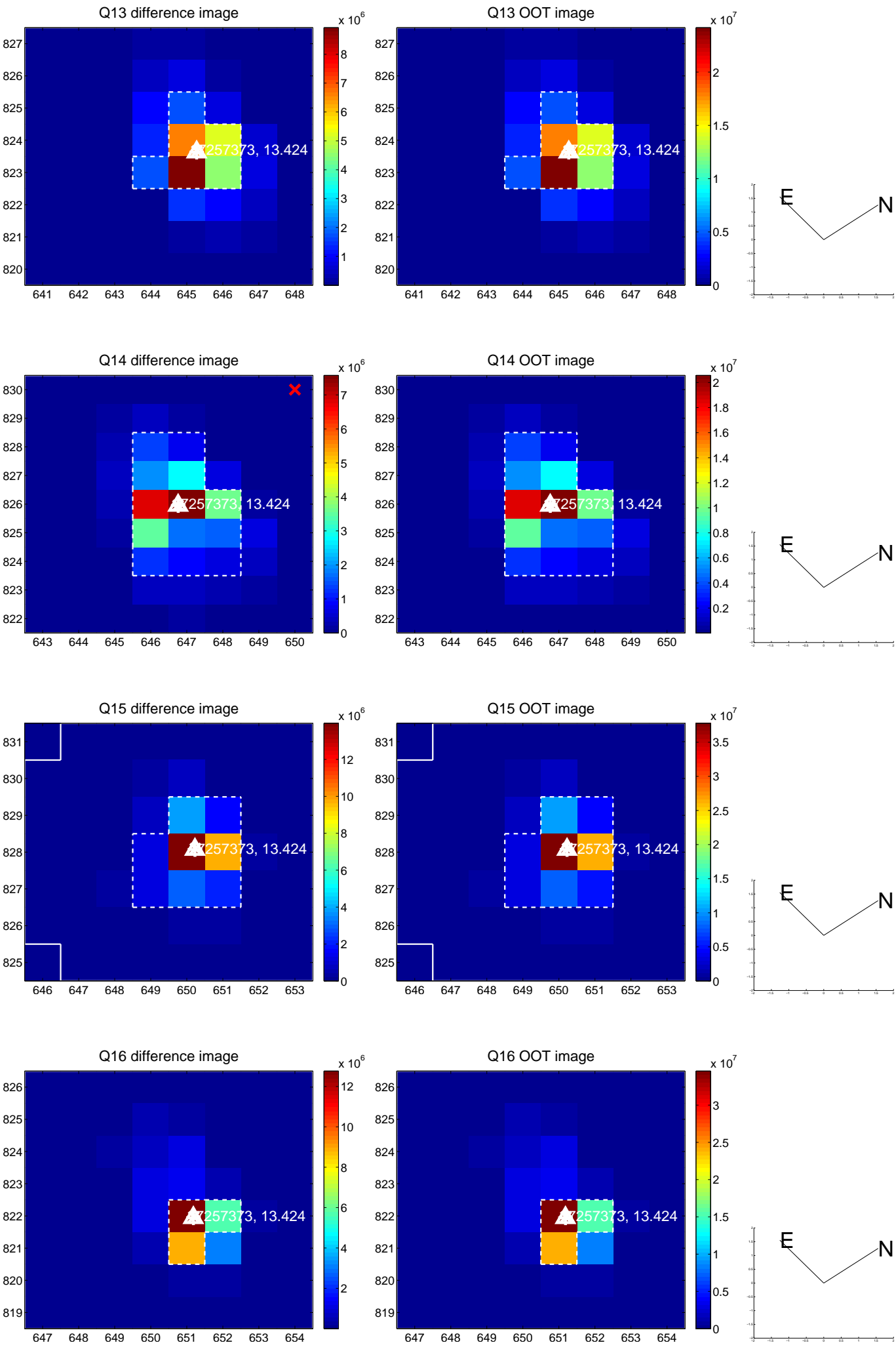
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



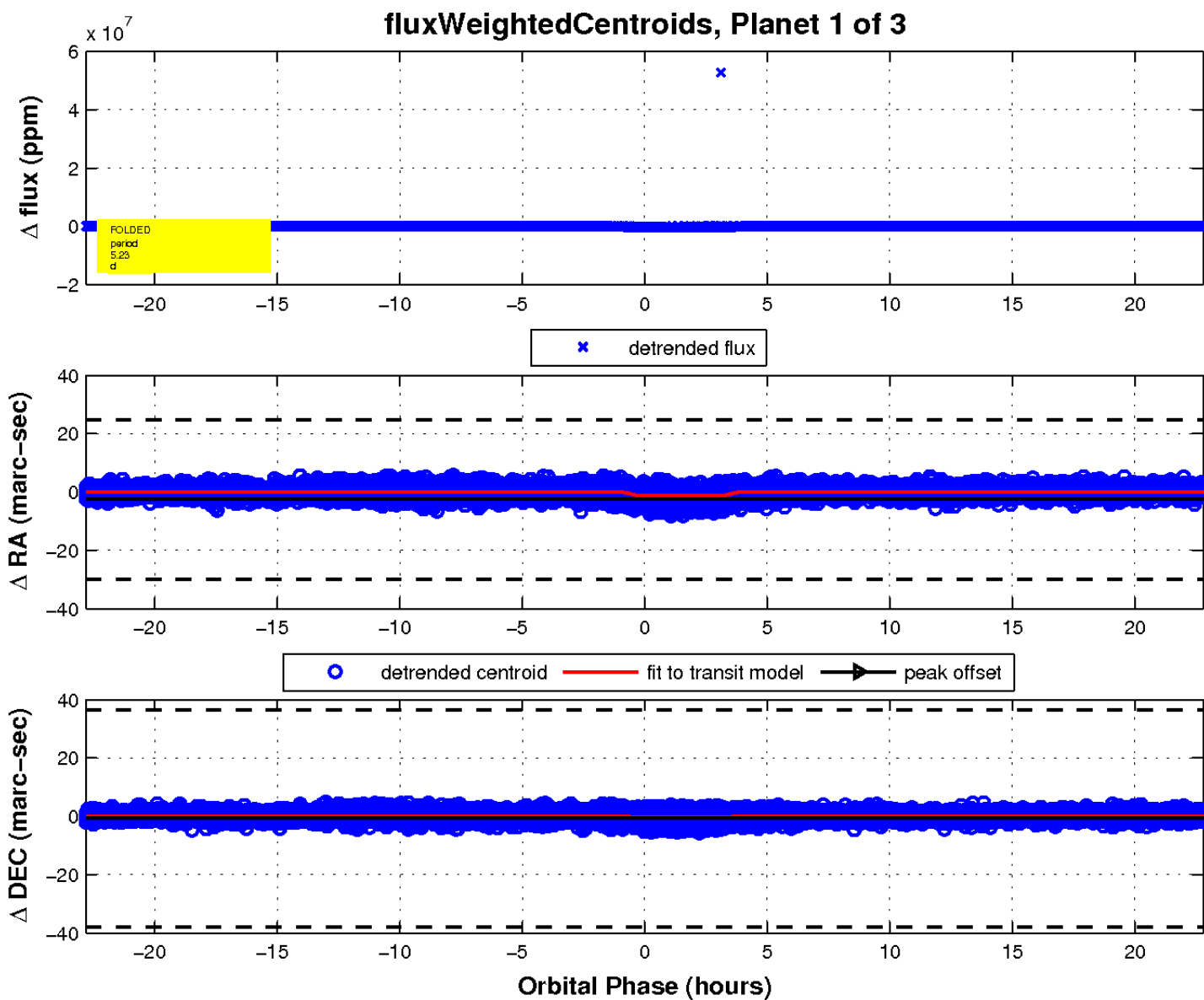
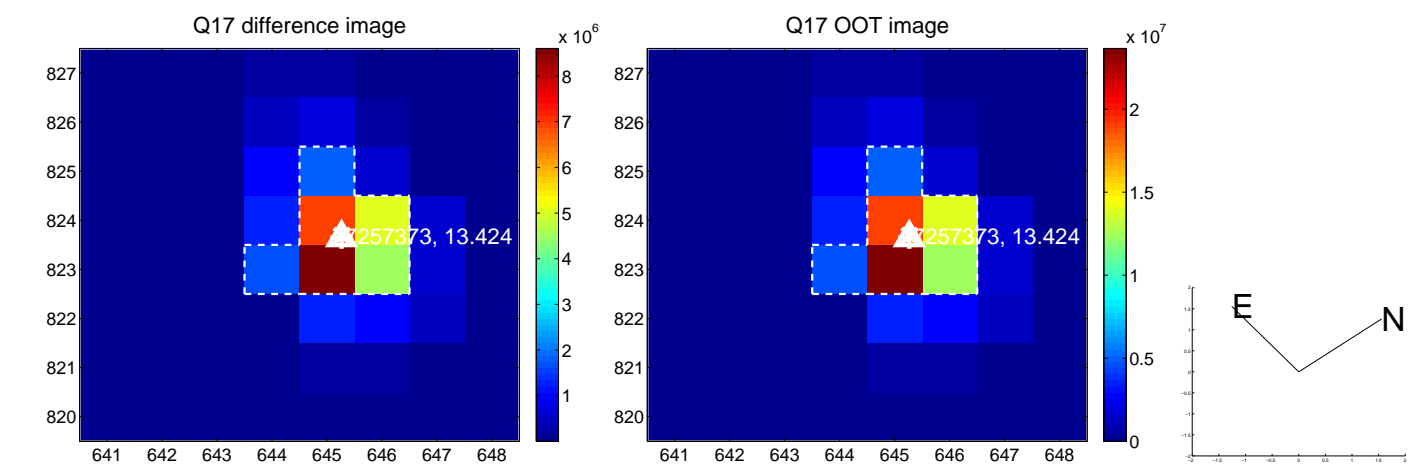
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

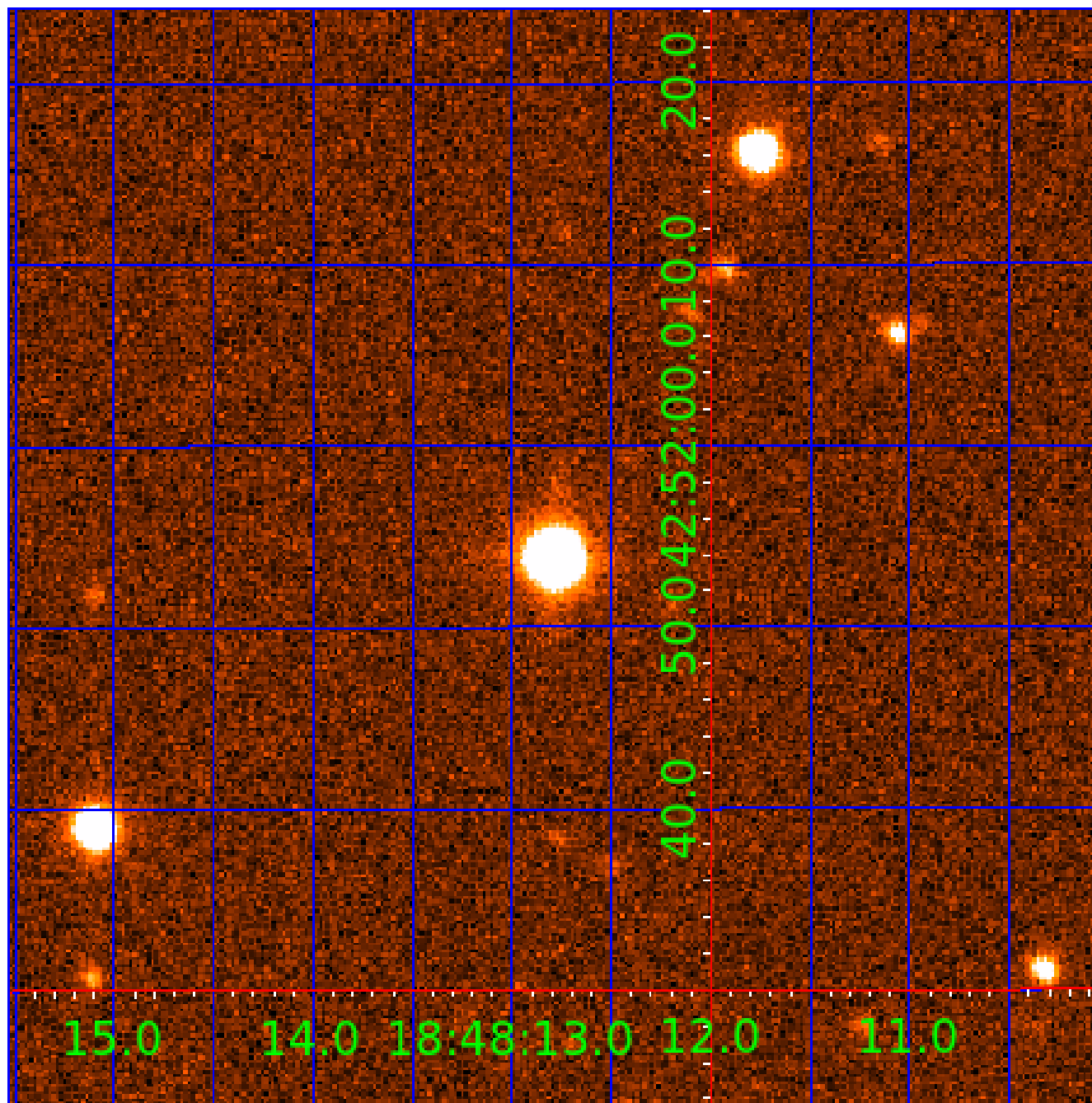


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007257373

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})
007257373-01	OBS	6034.01	5.233497	133.118434	456829.9	4.500	50310.2	-1.0	0.98	5841	51.92	287.77
007257373-02	OBS	No	5.233613	134.187790	7317.6	15.000	2098.9	-1.0	0.98	5841	8.29	287.76
007257373-03	OBS	No	2.616413	132.730196	12847.3	7.500	526.1	-1.0	0.98	5841	10.99	725.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007257373-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
007257373-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
007257373-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—RESIDUAL_TCE—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.

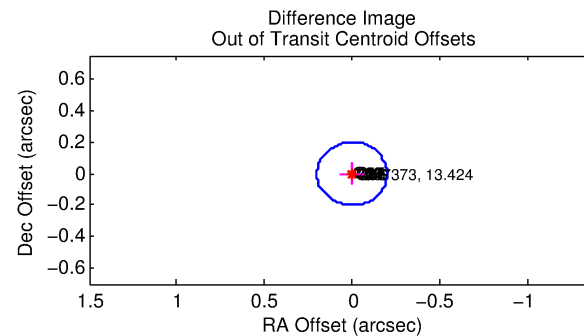
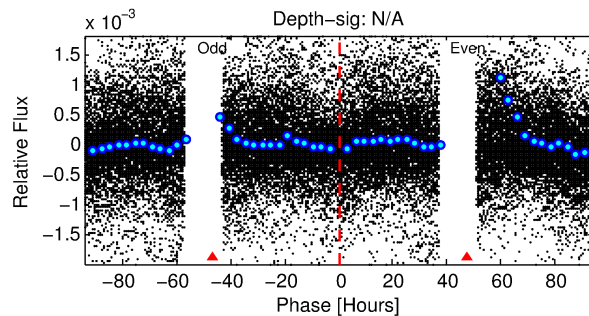
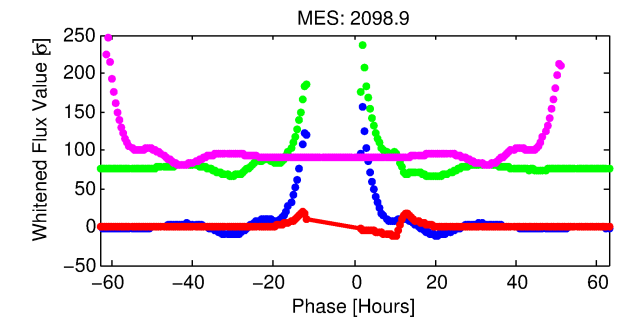
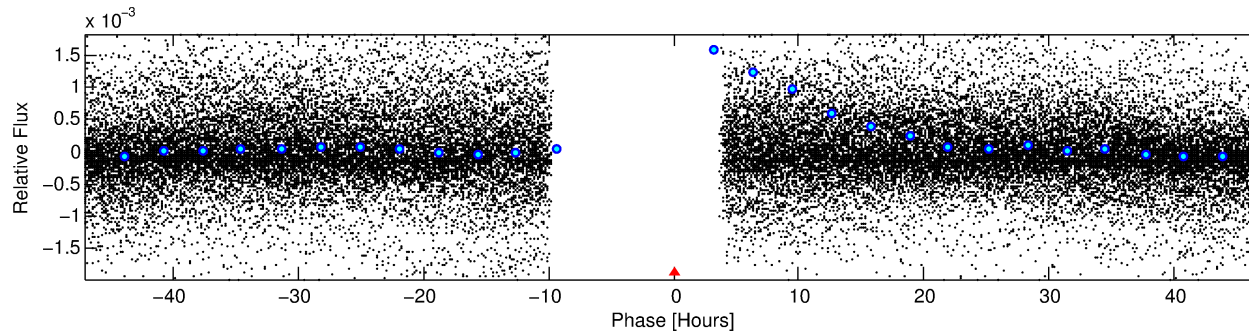
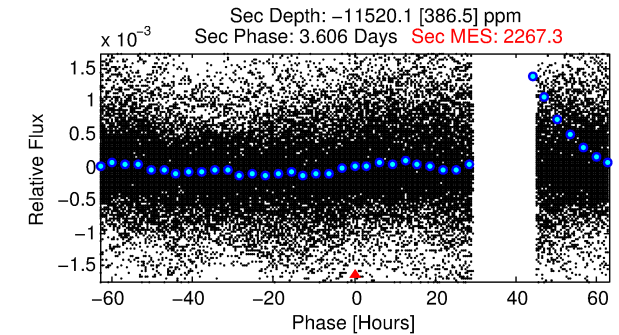
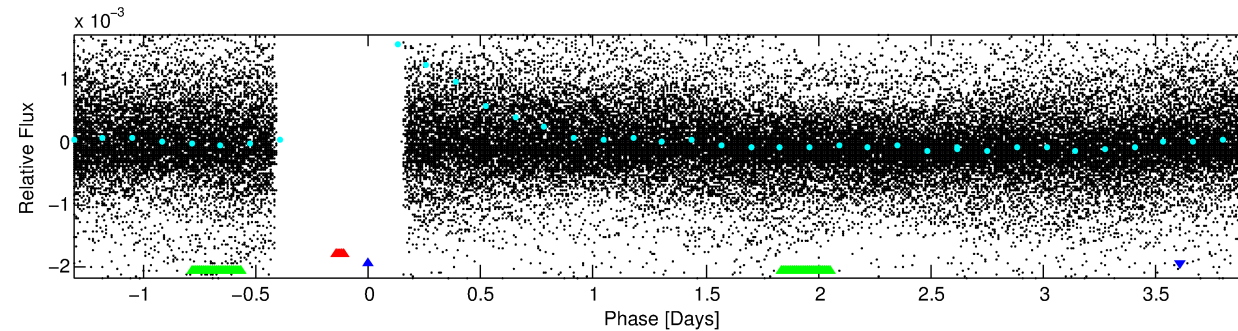
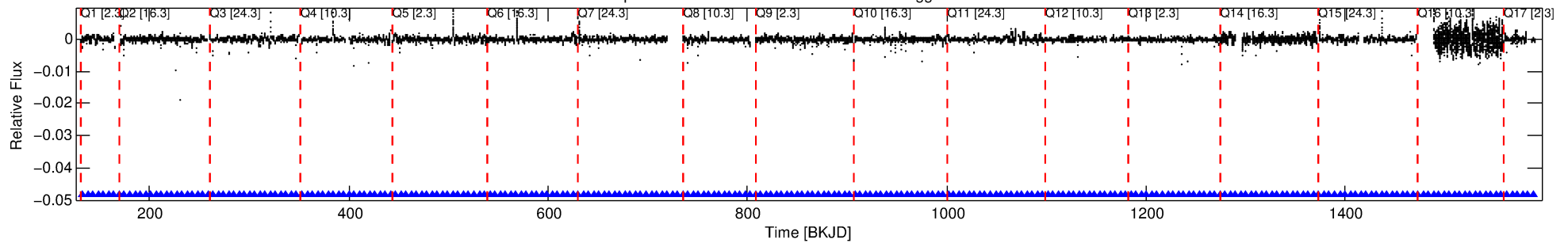
Ephemeris Match Information For 007257373-02

No Significant Match Found

DV One-Page Summary

KIC: 7257373 Candidate: 2 of 3 Period: 5.234 d
KOI: K06034 Corr: No Ephemeris Match

Kp: 13.42 R*: 0.98 Rs Teff: 5841.0 K Logg: 4.45 Fe/H: -0.020



TPS TCE Results:

Period = 5.23361 d
Epoch = 134.1878 BKJD

DV fit results are unavailable

DV Diagnostic Results:

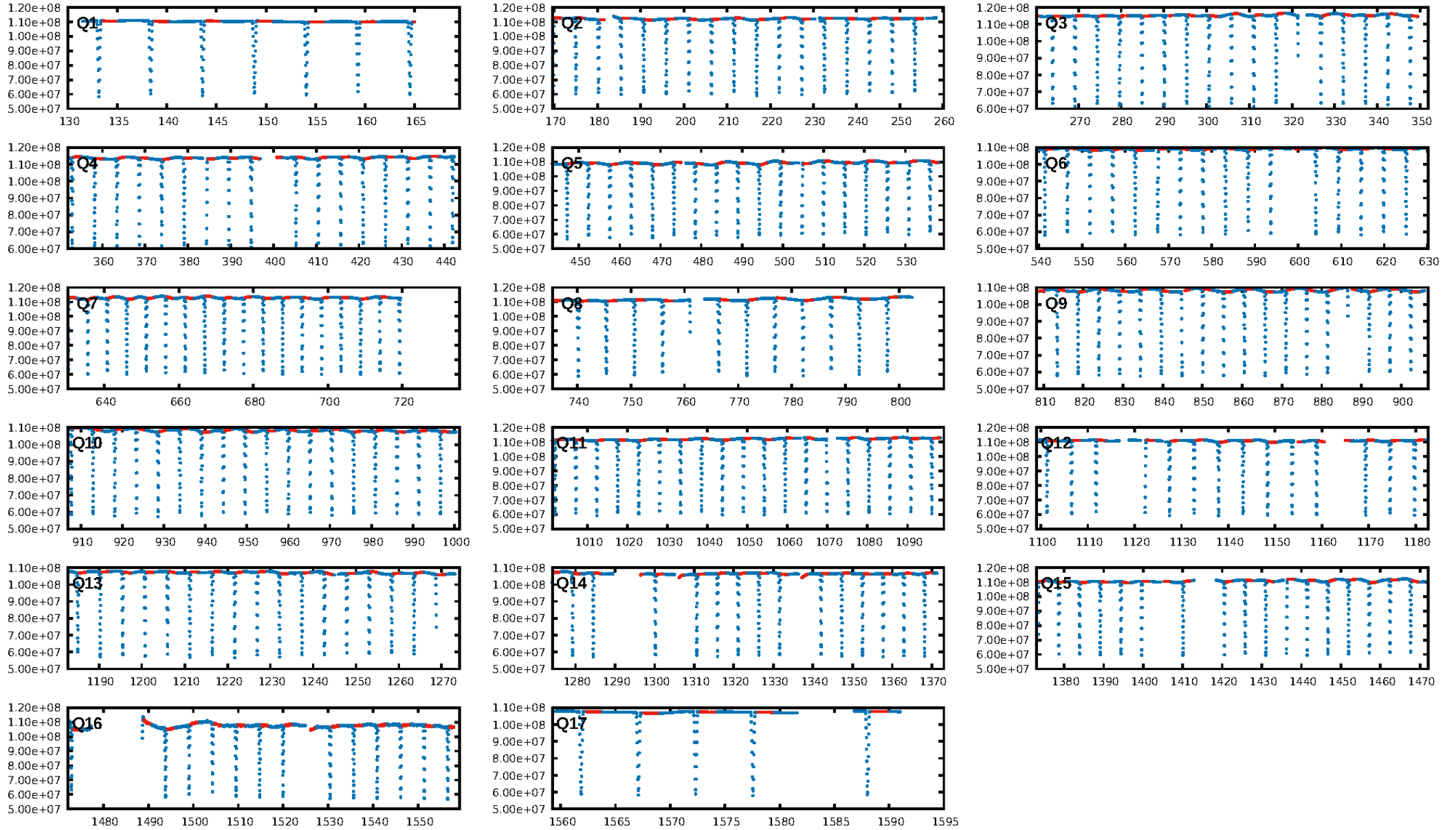
ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [243/243]
GhostDiagnostic-chr: 1.113

Centroid-sig: 4.6%
Centroid-so: 0.812 arcsec [2.16σ]
OotOffset-rm: 0.002 arcsec [0.03σ]
KicOffset-rm: 0.090 arcsec [1.31σ]
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]

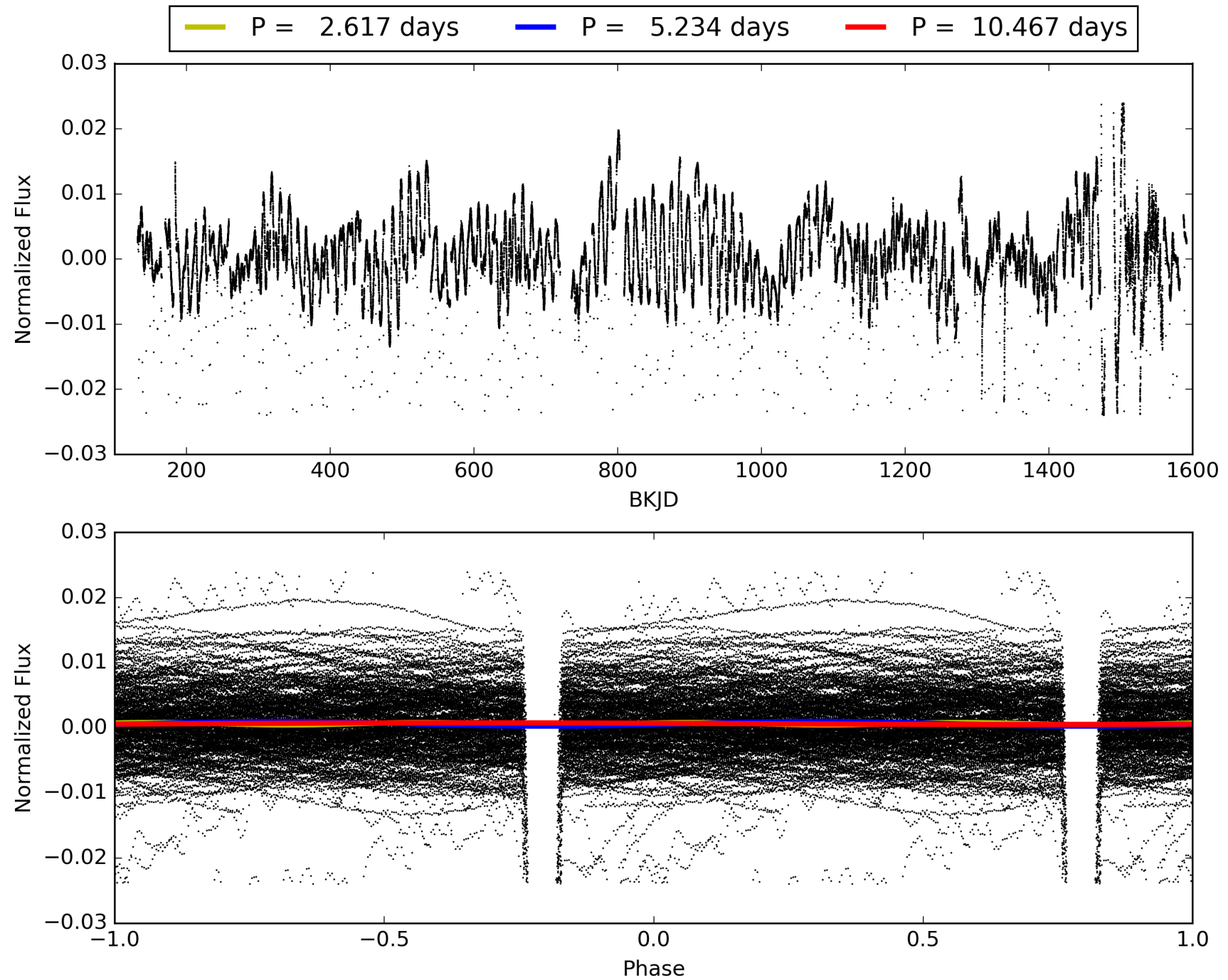
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:38:52 Z

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

TCE 007257373-02, PDC Light Curves

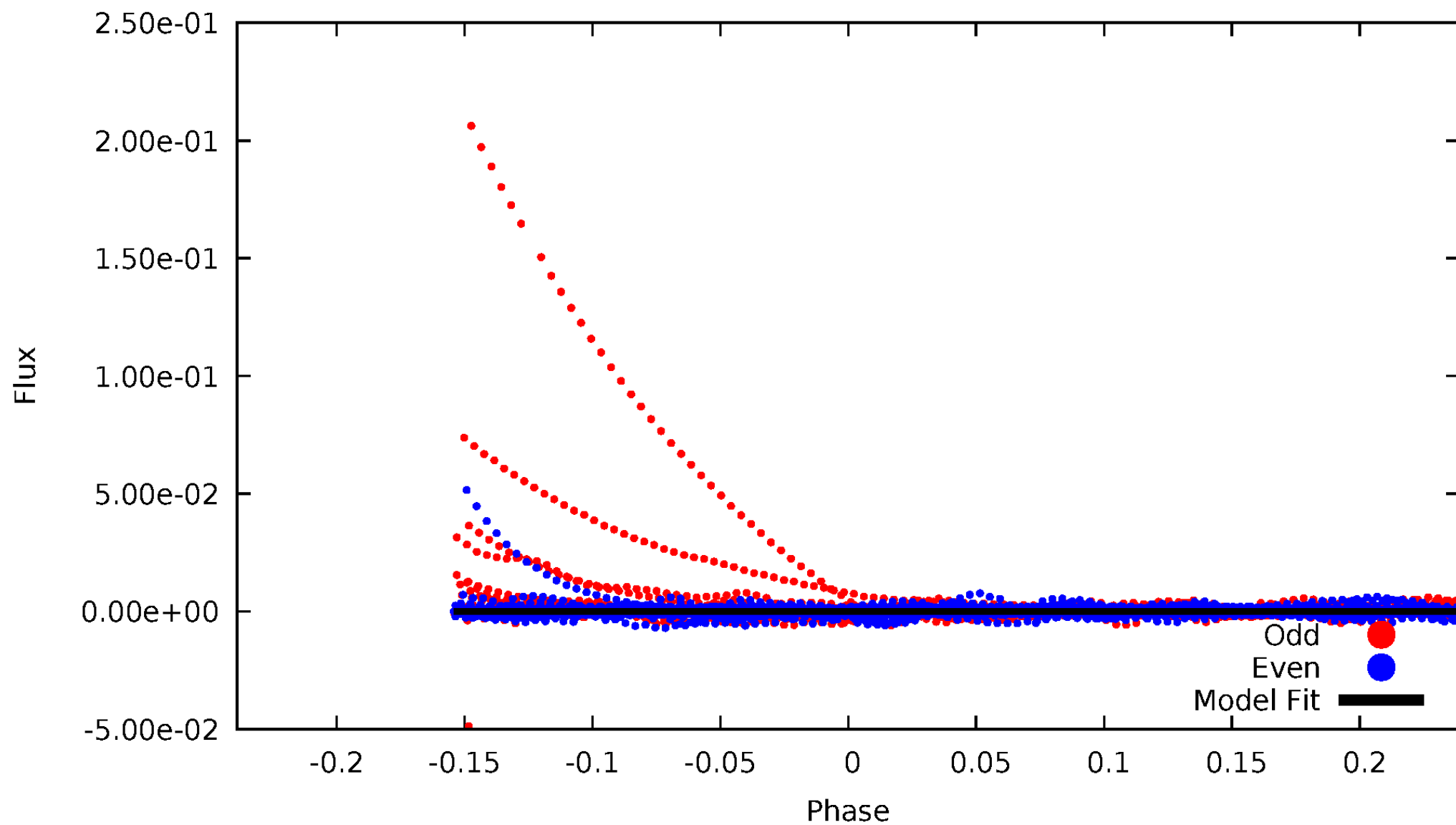


TCE 007257373-02



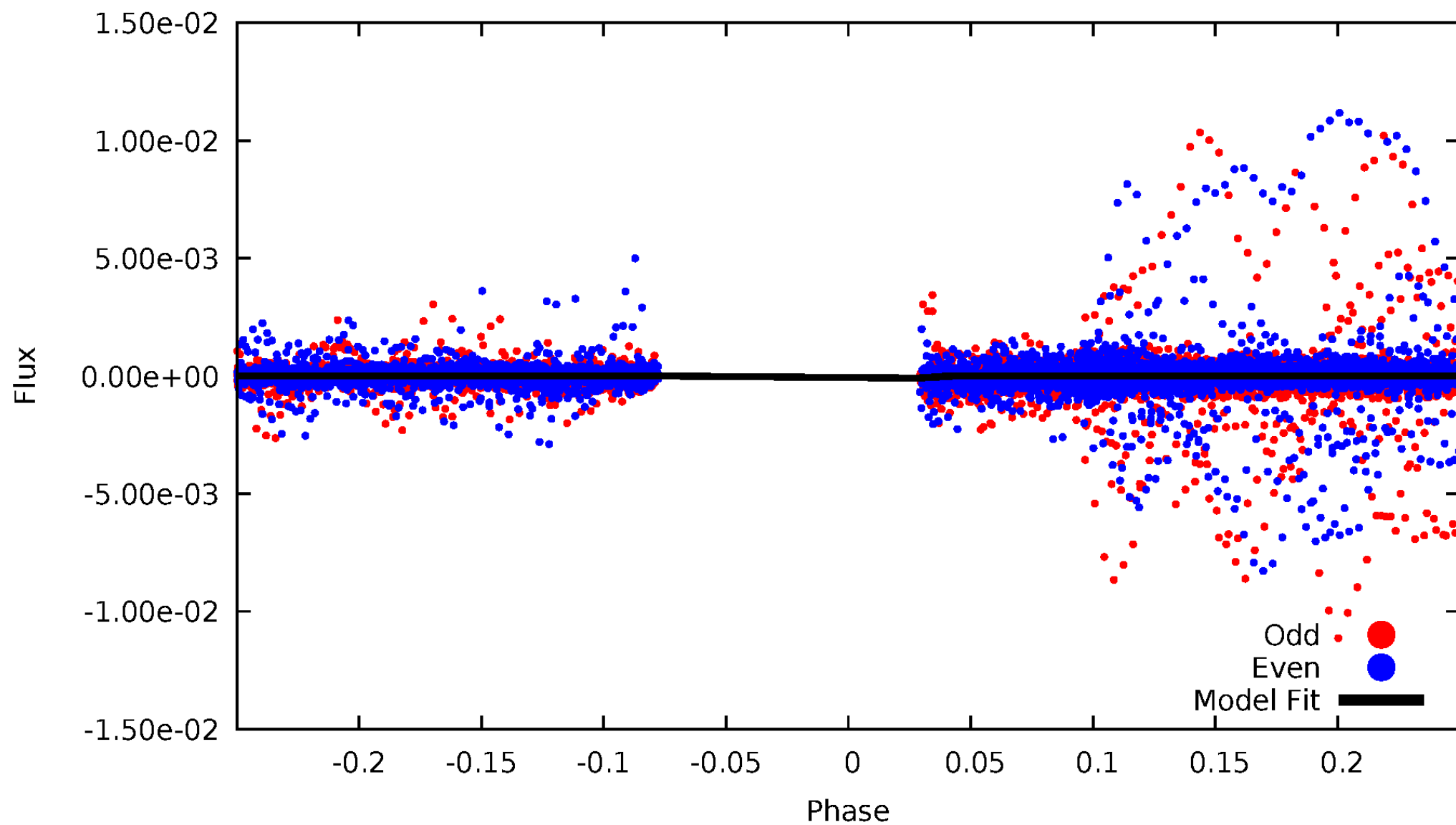
DV Odd/Even

TCE 007257373-02



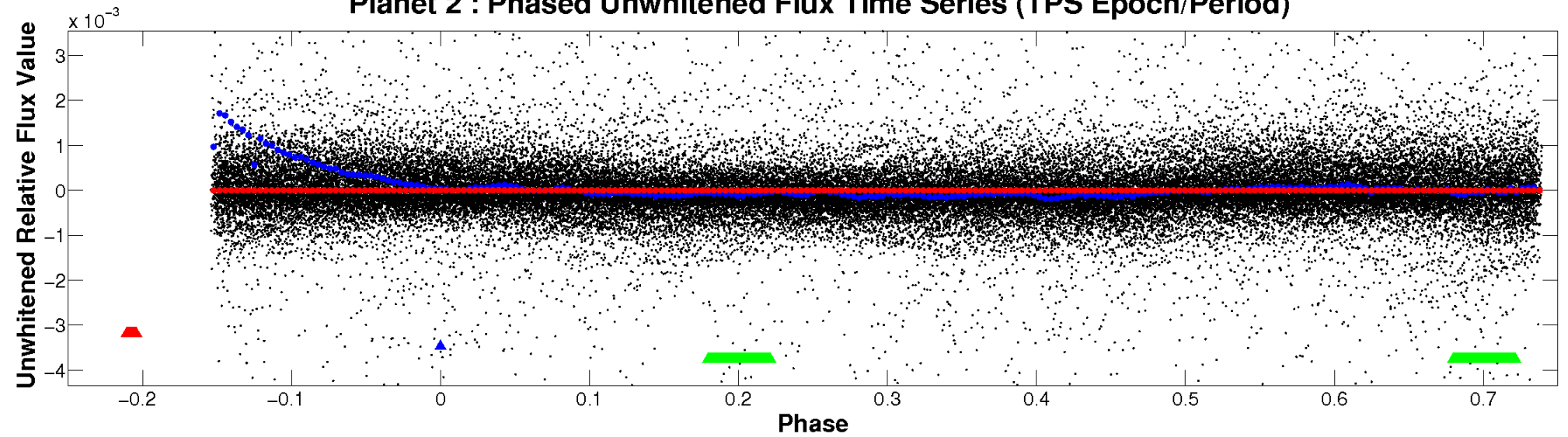
ALT Odd/Even

TCE 007257373-02



Non-Whitened Vs. Whitened Light Curve

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

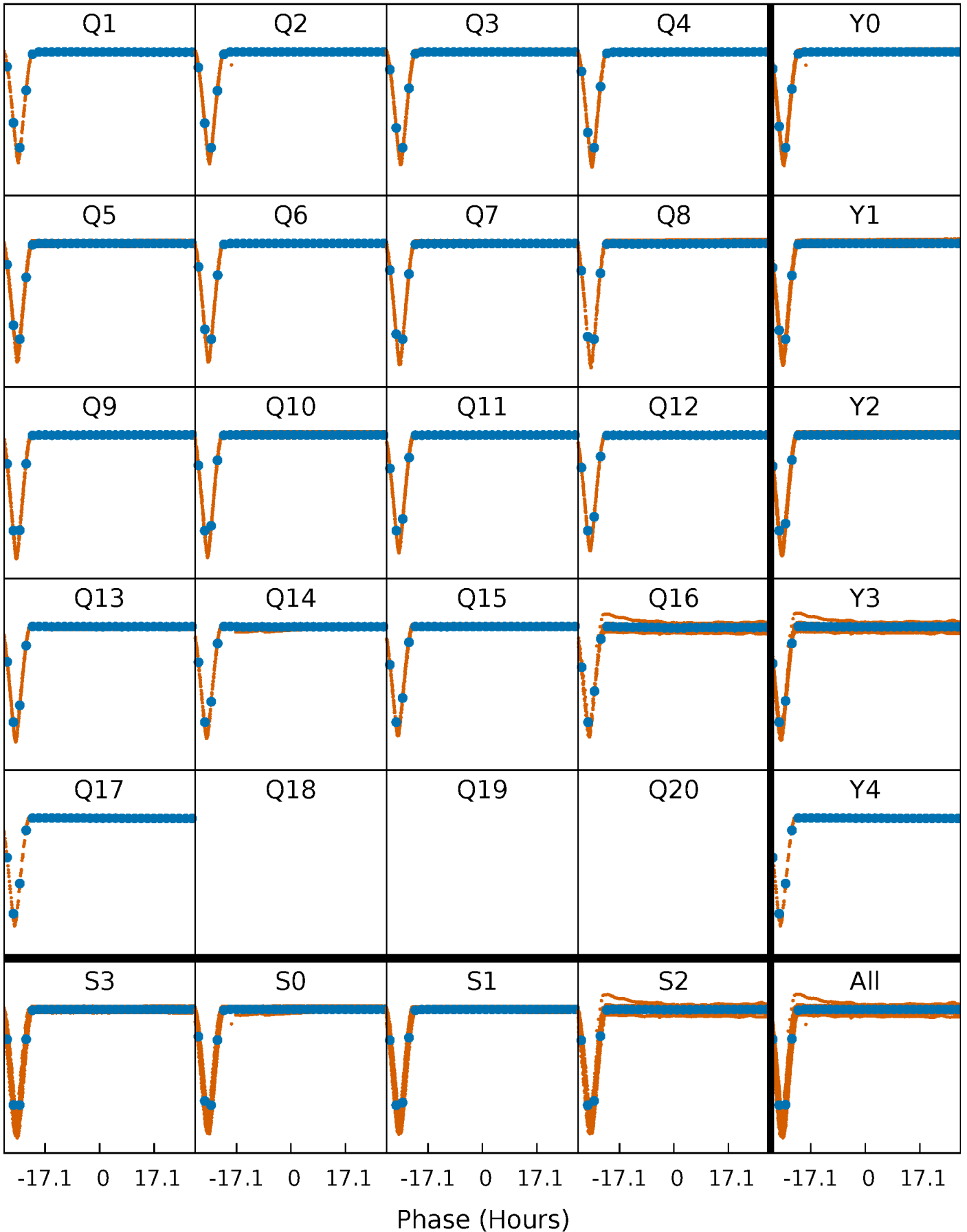


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



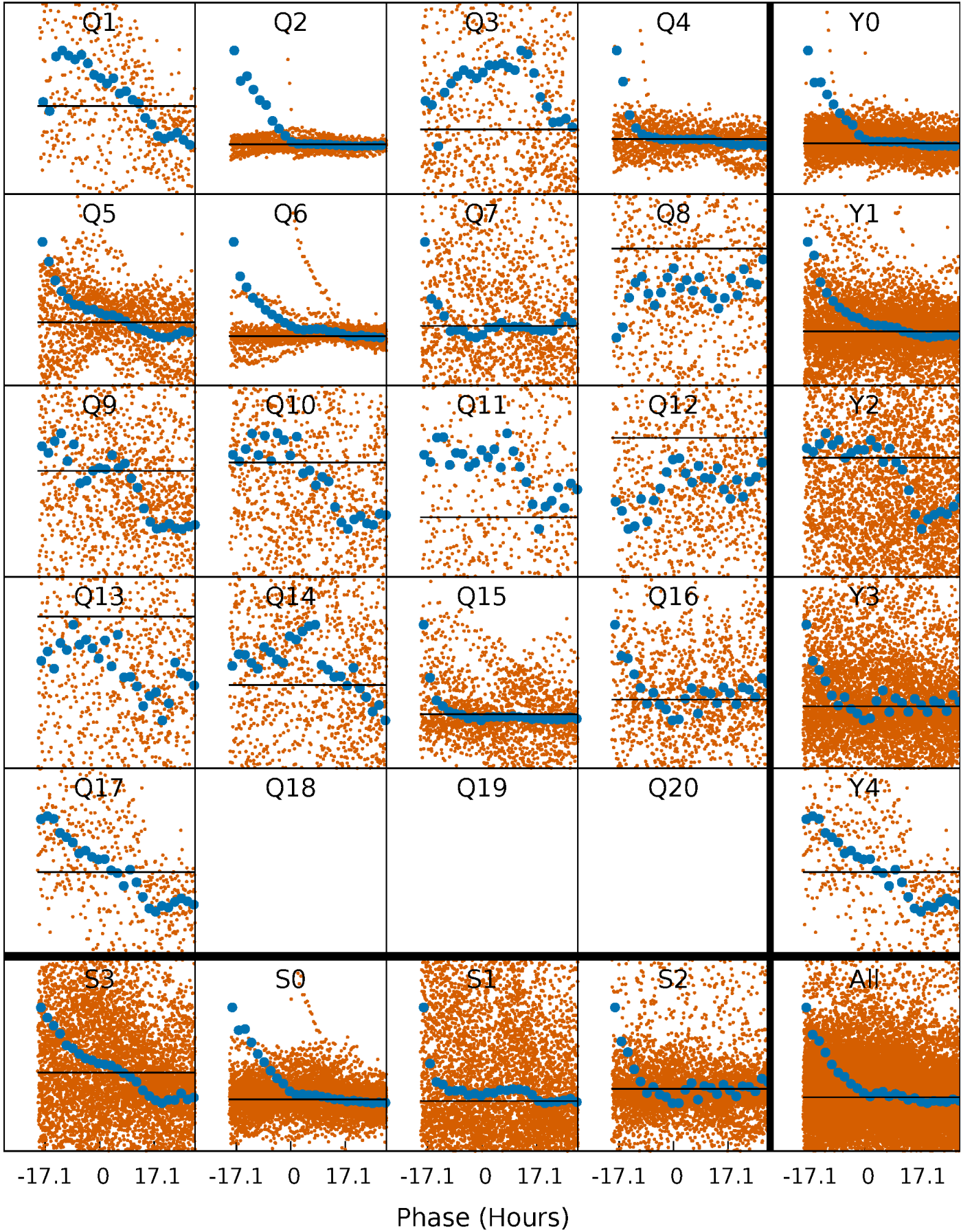
PDC Quarter-Phased Transit Curves

TCE 007257373-02 P= 5.233613 Days $T_0=134.187790$ (BKJD)



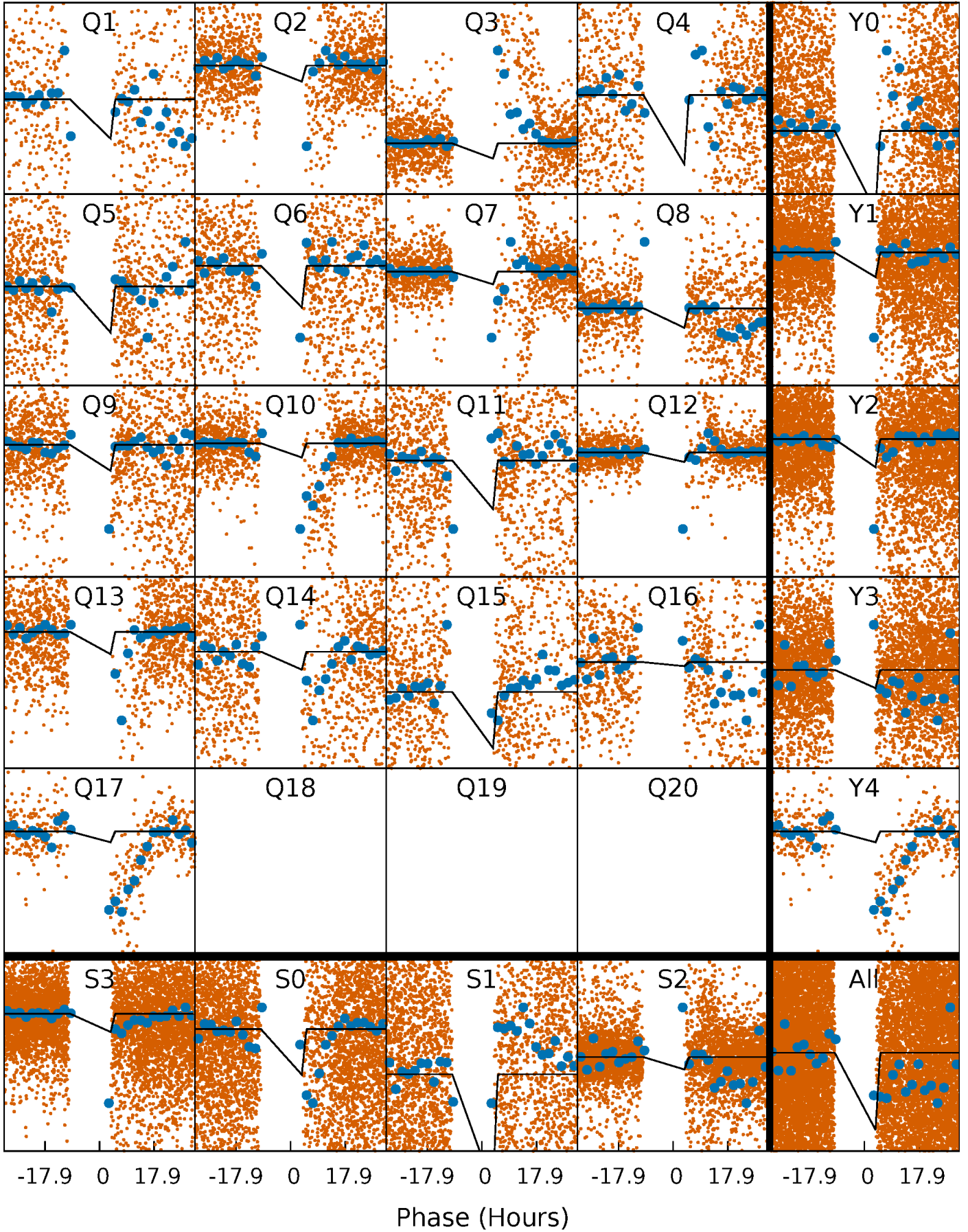
DV Quarter-Phased Transit Curves

TCE 007257373-02 P= 5.233613 Days $T_0=134.187790$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

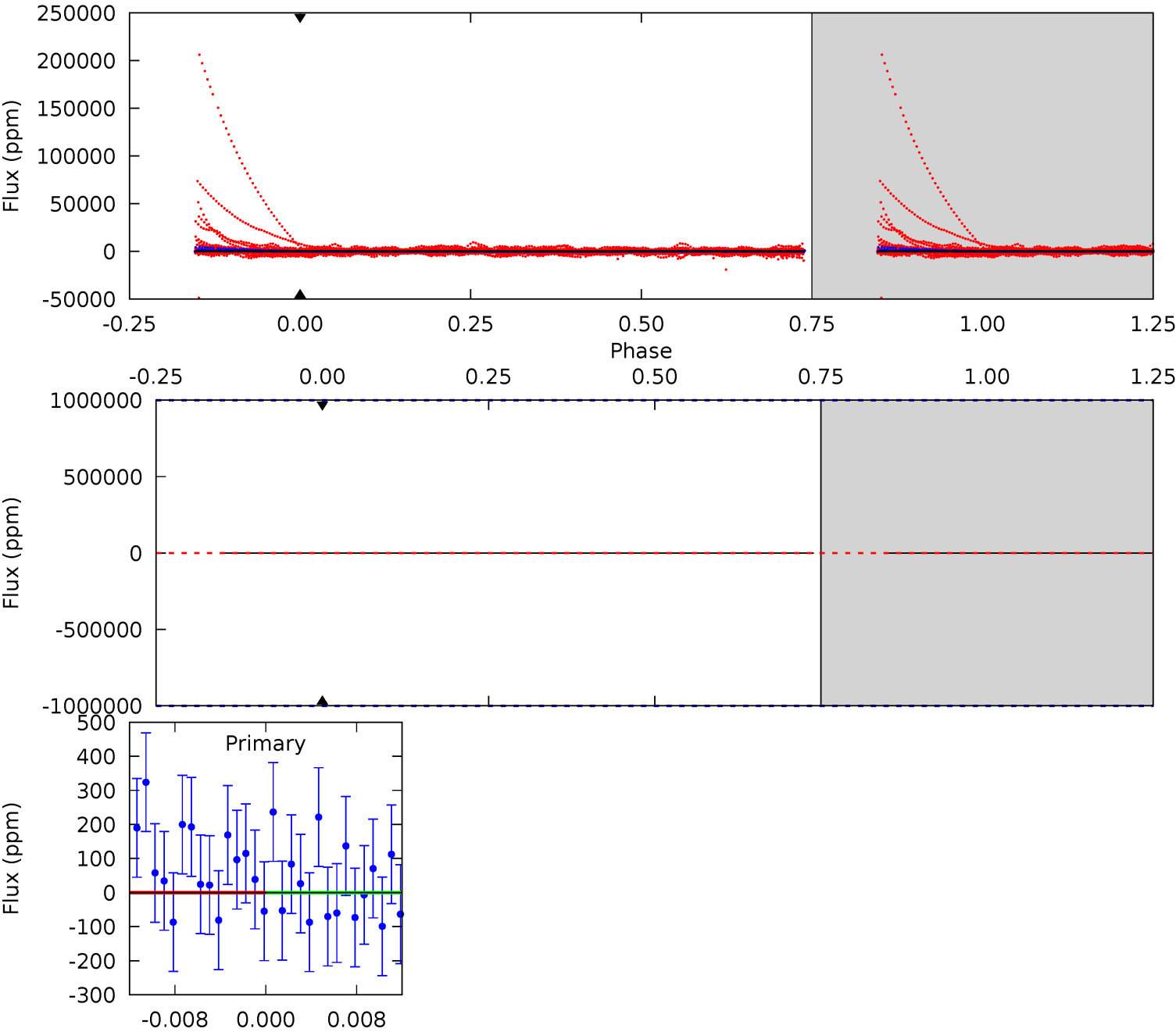
TCE 007257373-02 P= 5.233613 Days $T_0=133.227648$ (BKJD)



DV Model-Shift Uniqueness Test

007257373-02, P = 5.233613 Days, E = 128.954177 Days

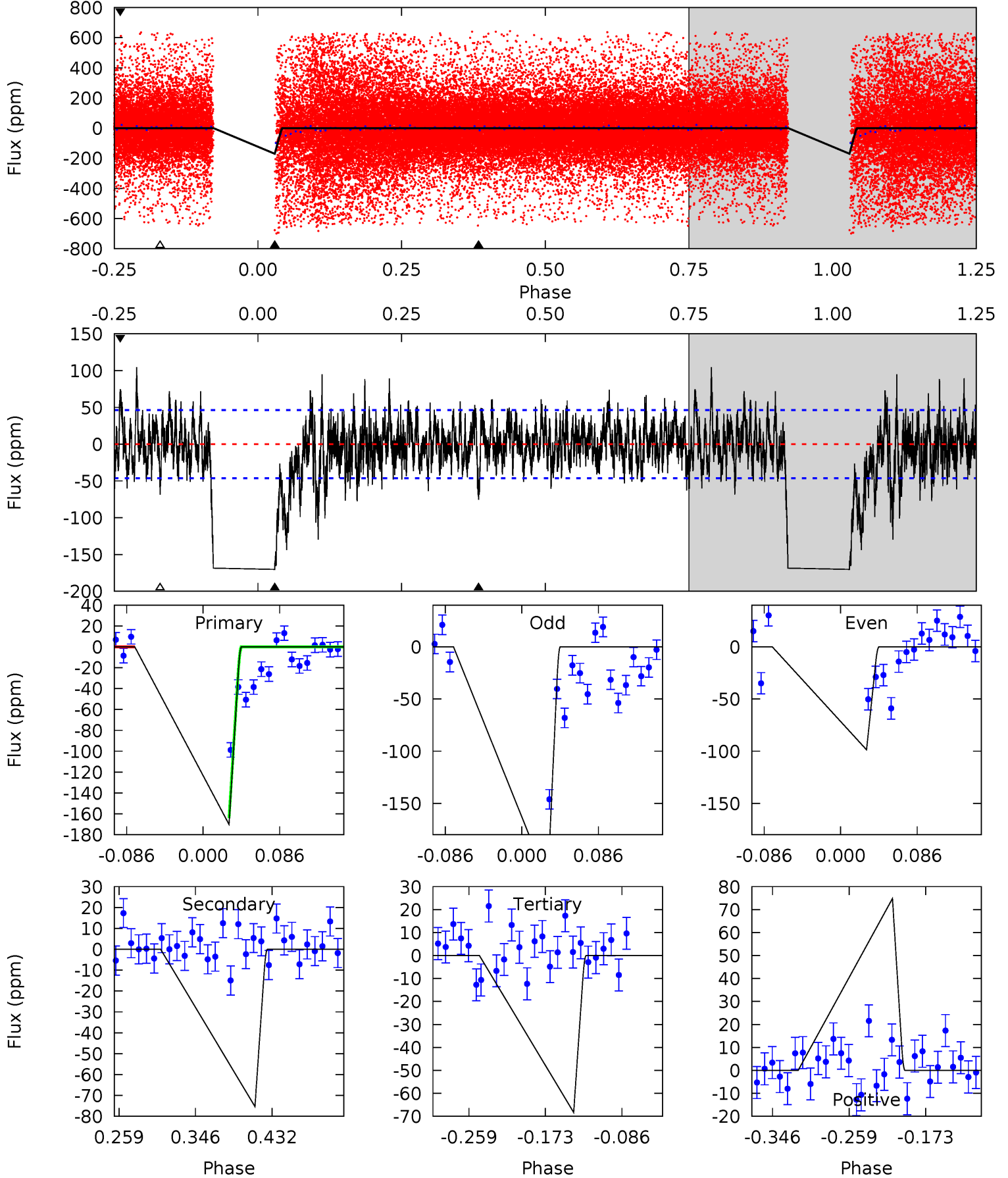
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007257373-02, P = 5.233613 Days, E = 127.994035 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.9	7.47	6.78	7.42	4.60	1.71	2.49	10.1	9.45	0.70	0.05	6.39	-0.01	0.38	0



Stellar Parameters For KIC 007257373

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5841^{+164}_{-205}	$4.454^{+0.067}_{-0.202}$	$-0.020^{+0.250}_{-0.300}$	$0.977^{+0.291}_{-0.104}$	$0.992^{+0.128}_{-0.117}$	$1.496^{+0.531}_{-0.760}$
	+3%/-4%	+2%/-5%	+1250%/-1500%	+30%/-11%	+13%/-12%	+36%/-51%
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 007257373-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$12.71^{+10.03}_{-8.70}$	1493^{+110}_{-81}	-4289^{+17599}_{-9947}	$-20.781^{+1957.828}_{-2260.290}$
Alt.	-75 ± 10	$8.04^{+9.17}_{-5.44}$	1493^{+111}_{-75}	2709^{+1191}_{-648}	$2.126^{+18.784}_{-1.647}$

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

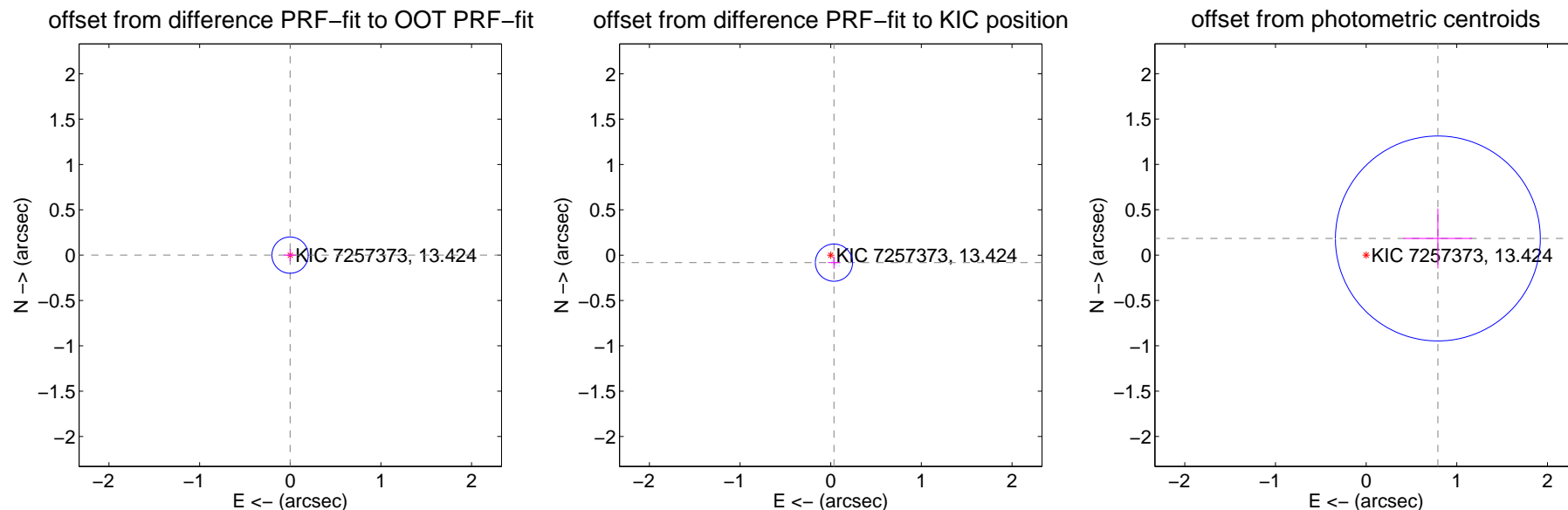
DV Centroid Data

Supplemental centroid analysis for 007257373-02. Kepler magnitude: 13.42. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

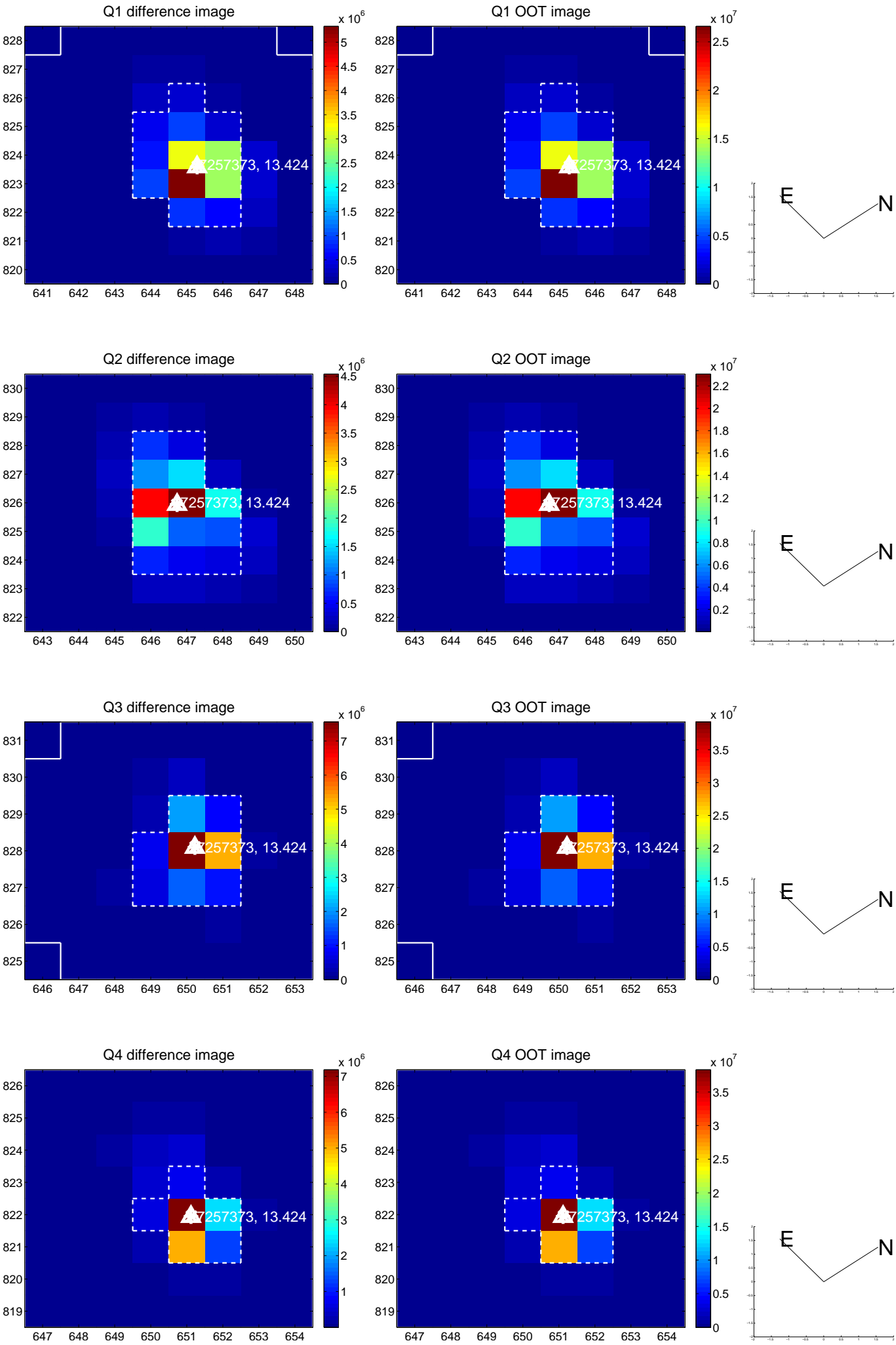
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.002 ± 0.067	0.03	0.002 ± 0.067	0.000 ± 0.067
PRF-fit source offset from KIC position	0.090 ± 0.068	1.31	-0.036 ± 0.067	-0.083 ± 0.068
photometric centroid source offset	0.81 ± 0.38	2.16	-0.79 ± 0.38	0.18 ± 0.33

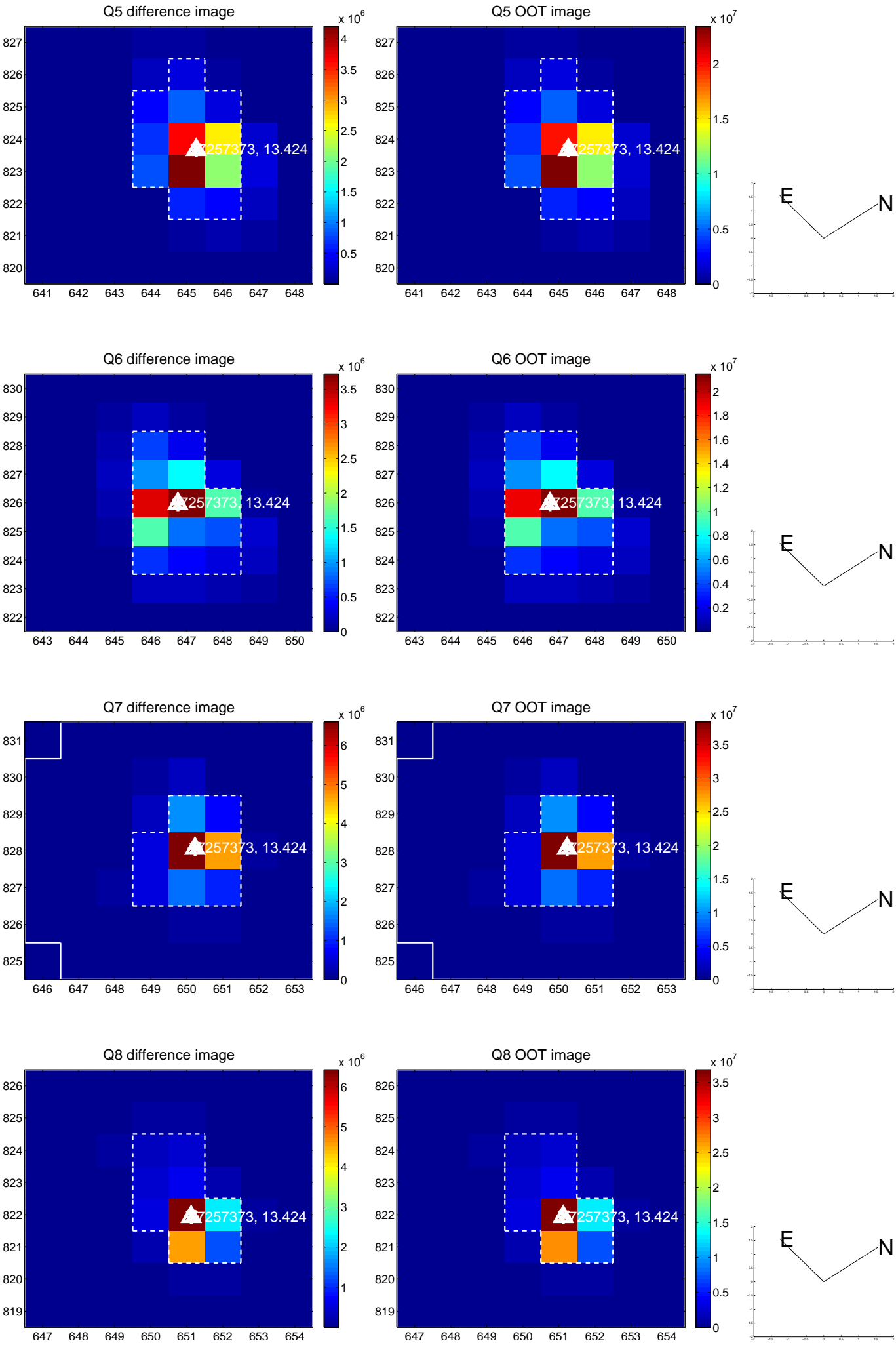


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

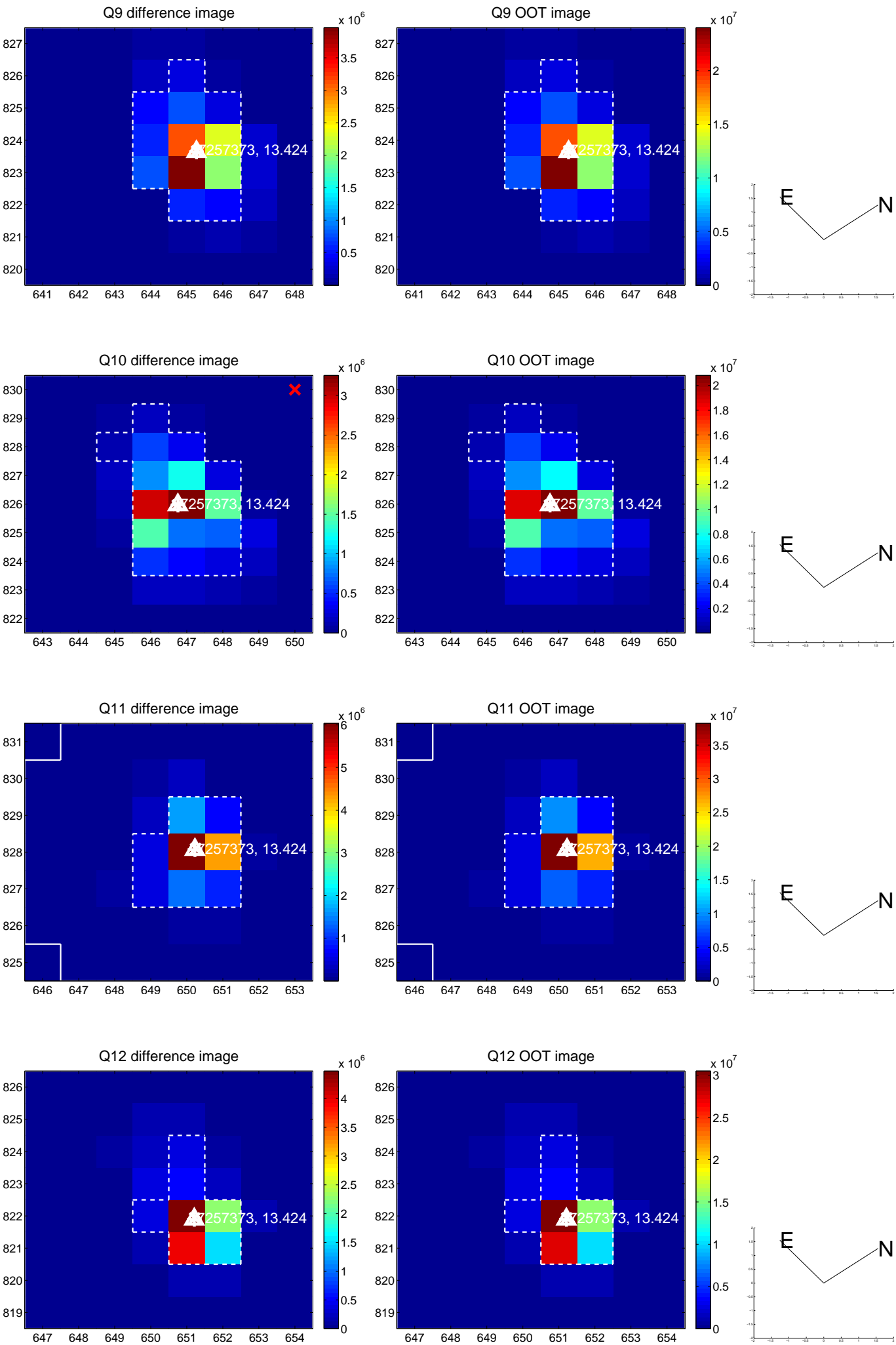
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



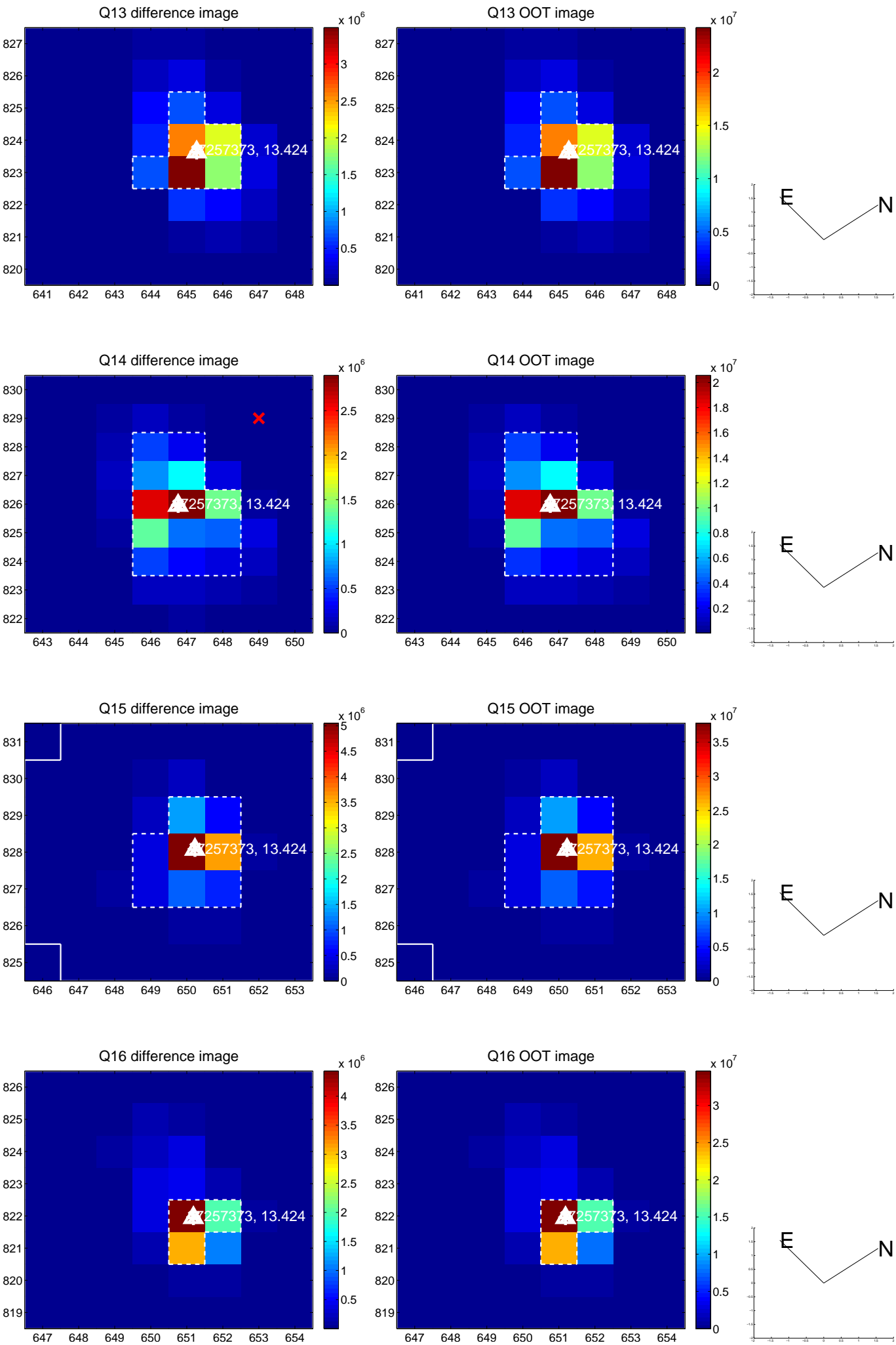
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



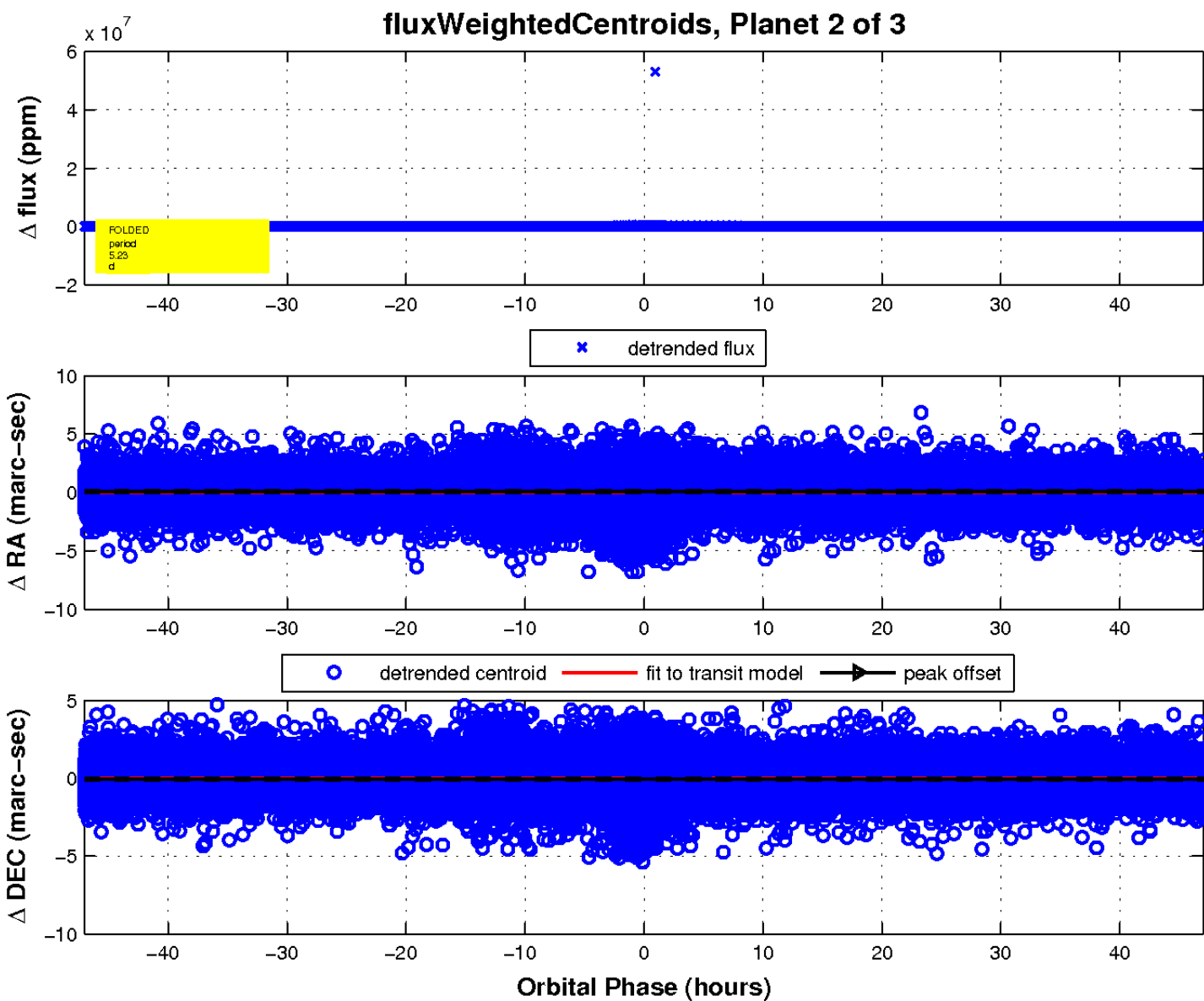
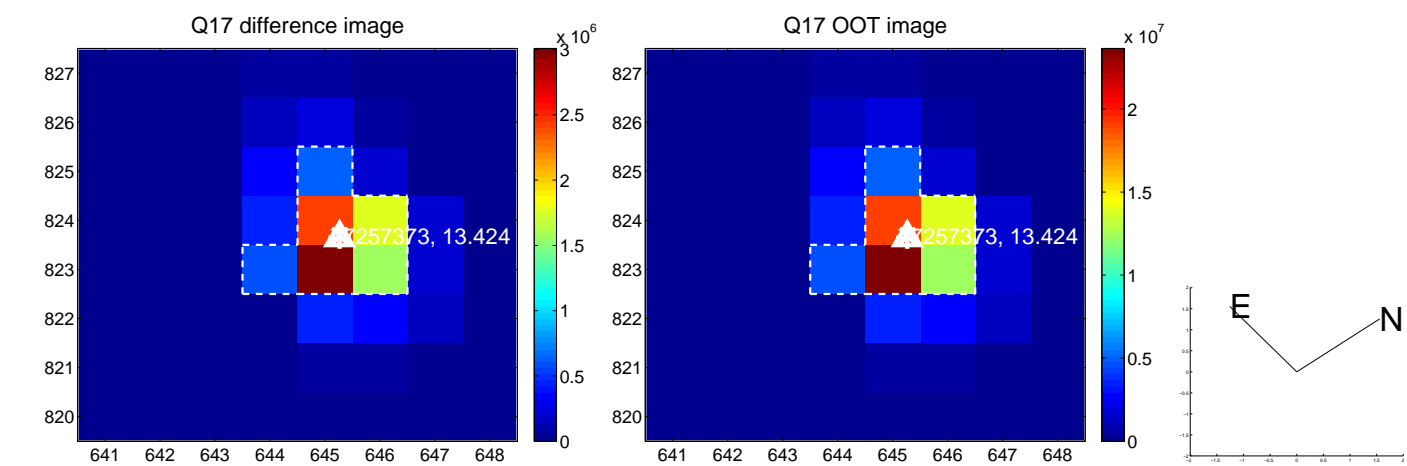
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

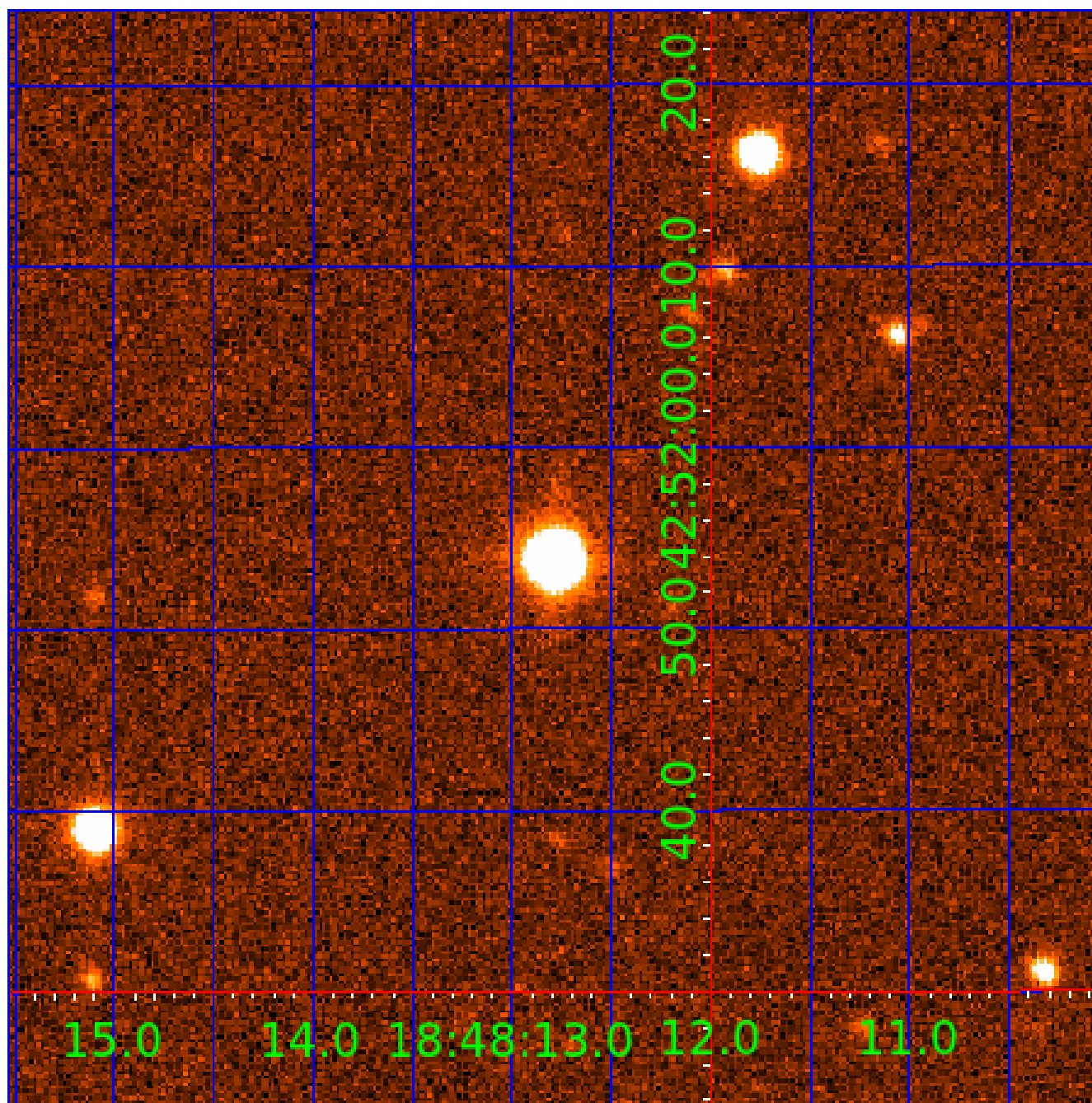


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007257373

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})
007257373-01	OBS	6034.01	5.233497	133.118434	456829.9	4.500	50310.2	-1.0	0.98	5841	51.92	287.77
007257373-02	OBS	No	5.233613	134.187790	7317.6	15.000	2098.9	-1.0	0.98	5841	8.29	287.76
007257373-03	OBS	No	2.616413	132.730196	12847.3	7.500	526.1	-1.0	0.98	5841	10.99	725.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007257373-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
007257373-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
007257373-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—RESIDUAL_TCE—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.

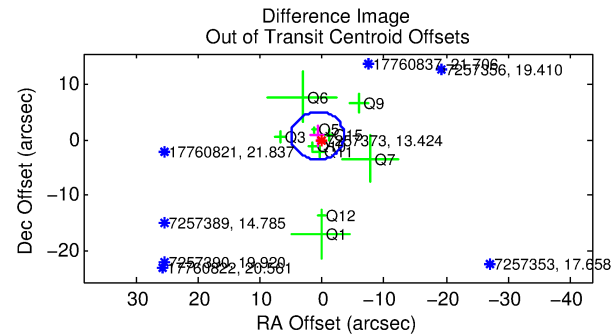
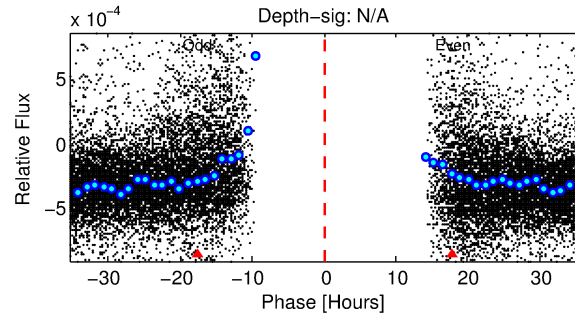
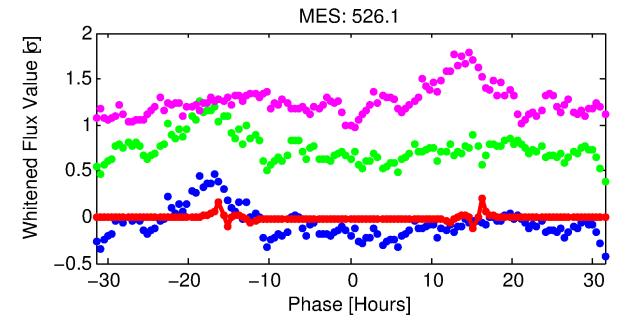
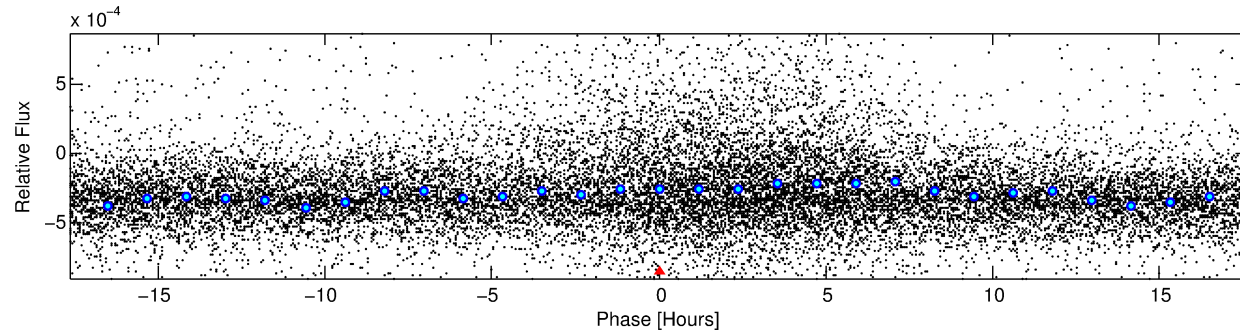
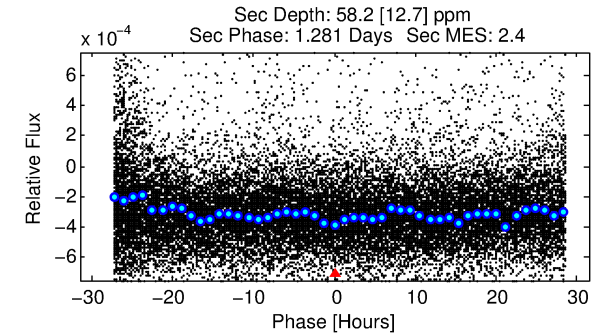
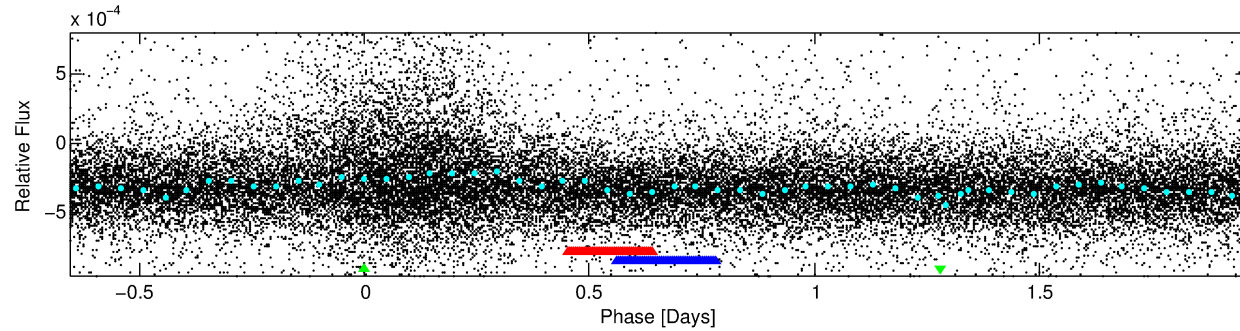
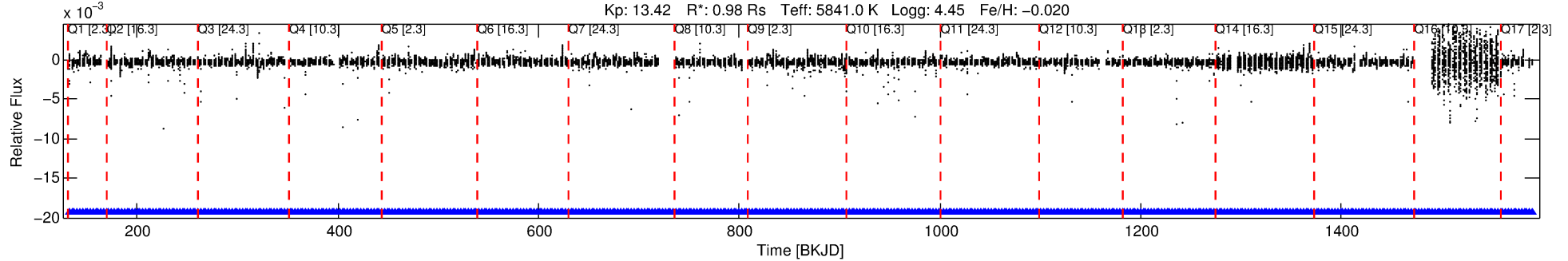
Ephemeris Match Information For 007257373-03

No Significant Match Found

DV One-Page Summary

KIC: 7257373 Candidate: 3 of 3 Period: 2.616 d
KOI: K06034 Corr: No Ephemeris Match

Kp: 13.42 R*: 0.98 Rs Teff: 5841.0 K Logg: 4.45 Fe/H: -0.020



TPS TCE Results:

Period = 2.61641 d
Epoch = 132.7302 BKJD

DV fit results are unavailable

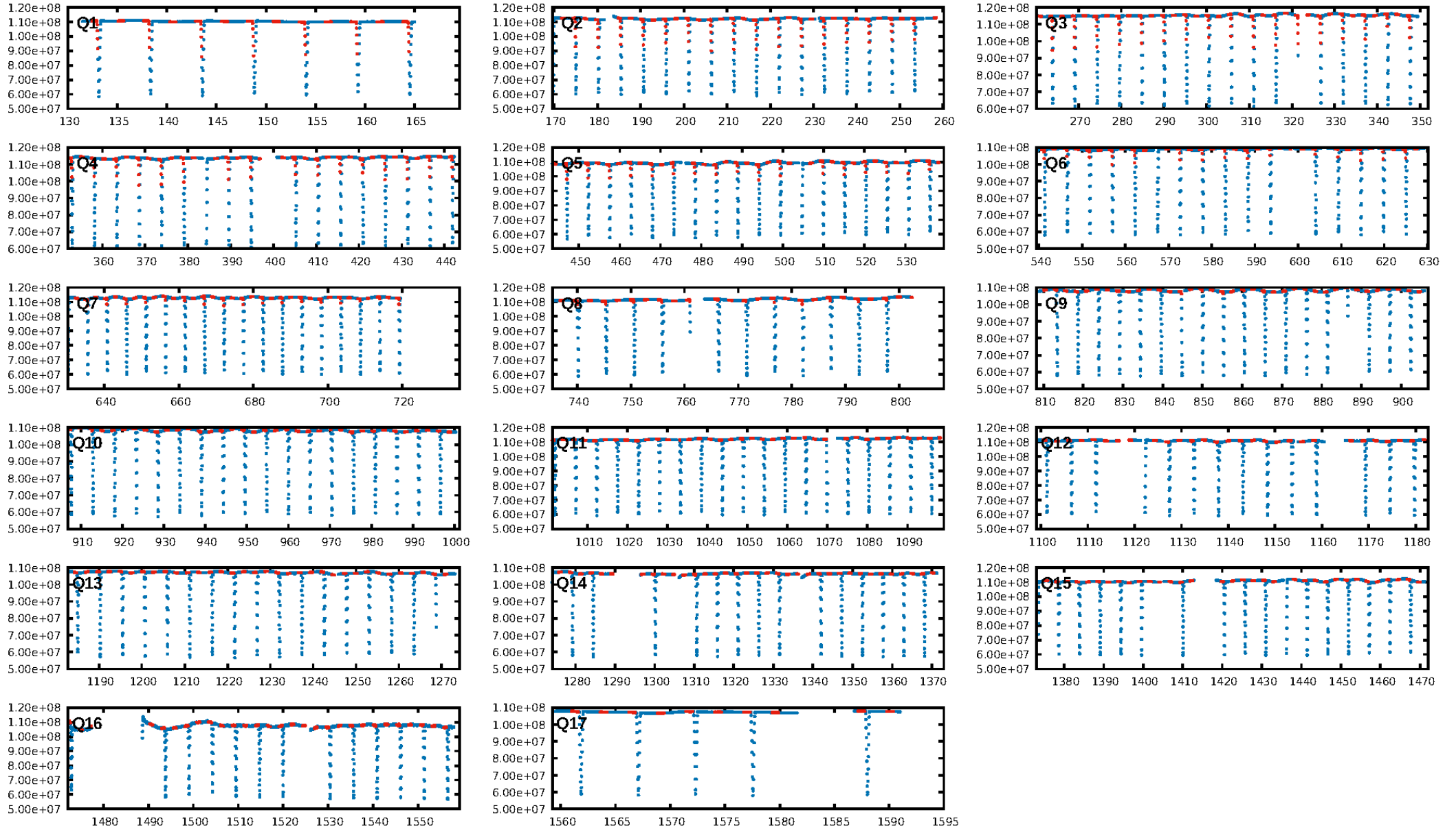
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [7.18σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [490/490]
GhostDiagnostic-chr: 131.1
Centroid-sig: 52.8%
Centroid-so: 1.099 arcsec [0.76σ]
OotOffset-rm: 1.052 arcsec [0.74σ]
KicOffset-rm: 0.986 arcsec [0.53σ]
OotOffset-st: 2/4/1/3 [10]
KicOffset-st: 2/4/1/3 [10]
DiffImageQuality-fgm: 0.10 [1/10]
DiffImageOverlap-fno: 1.00 [17/17]

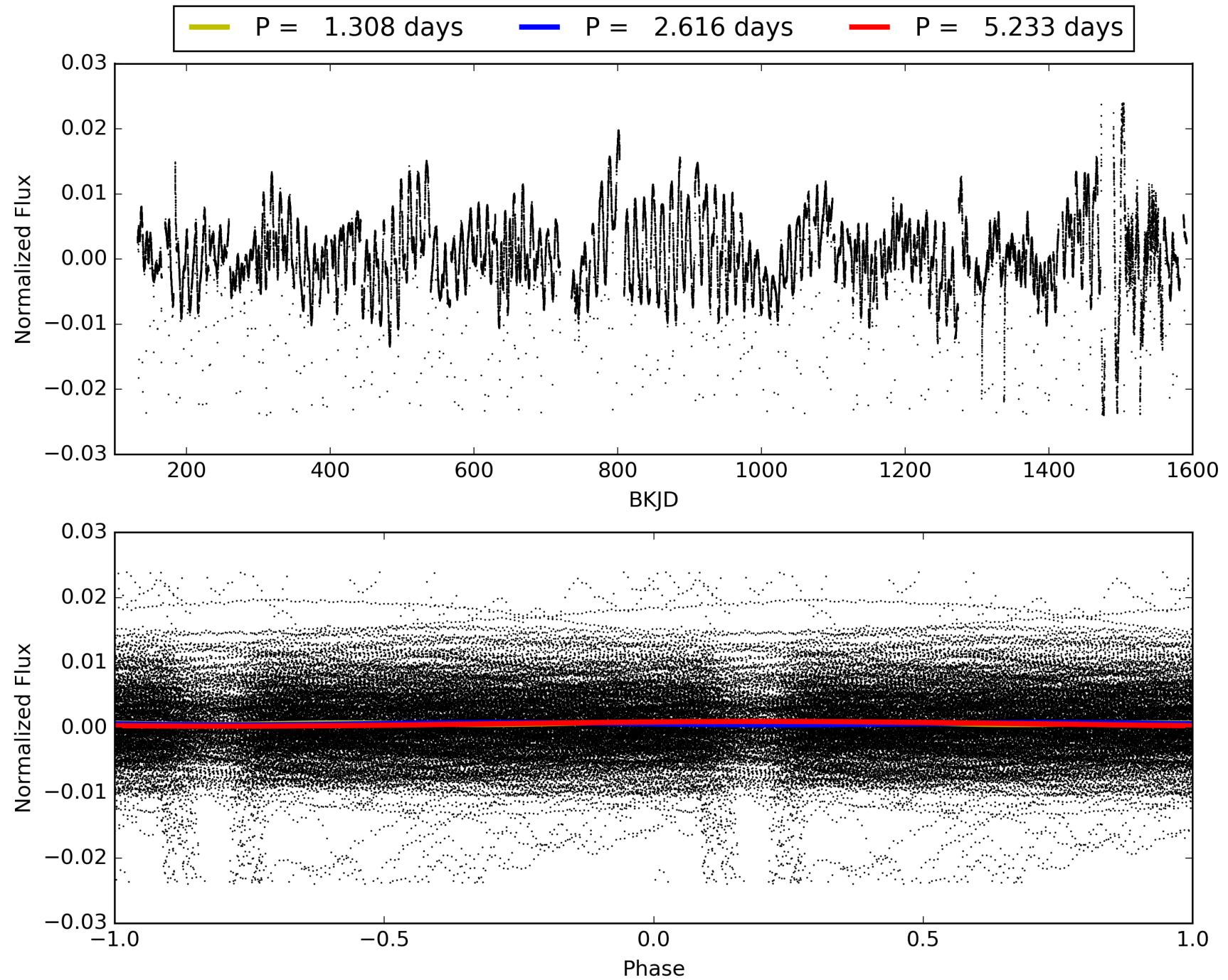
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:39:02 Z

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

TCE 007257373-03, PDC Light Curves

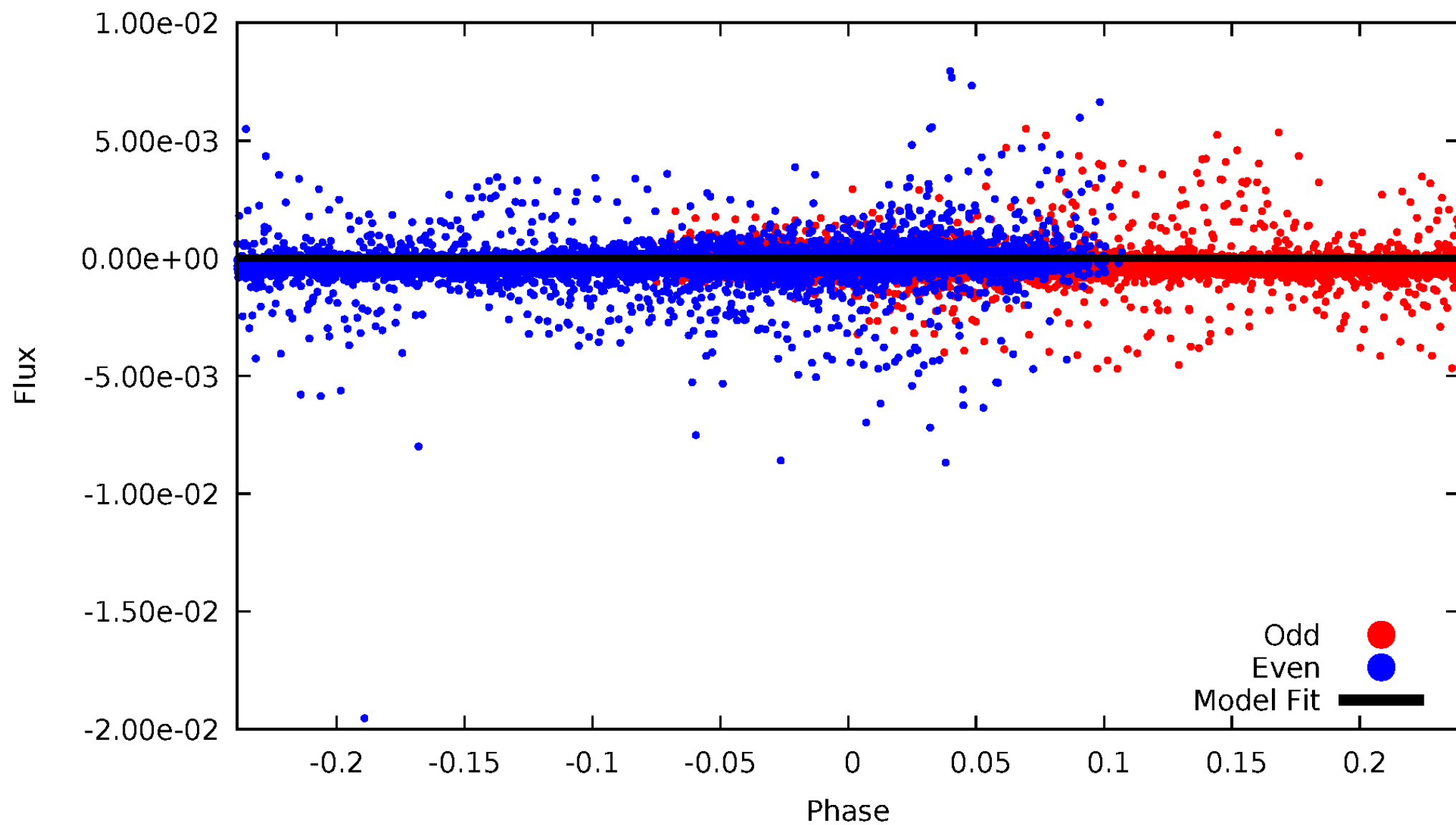


TCE 007257373-03



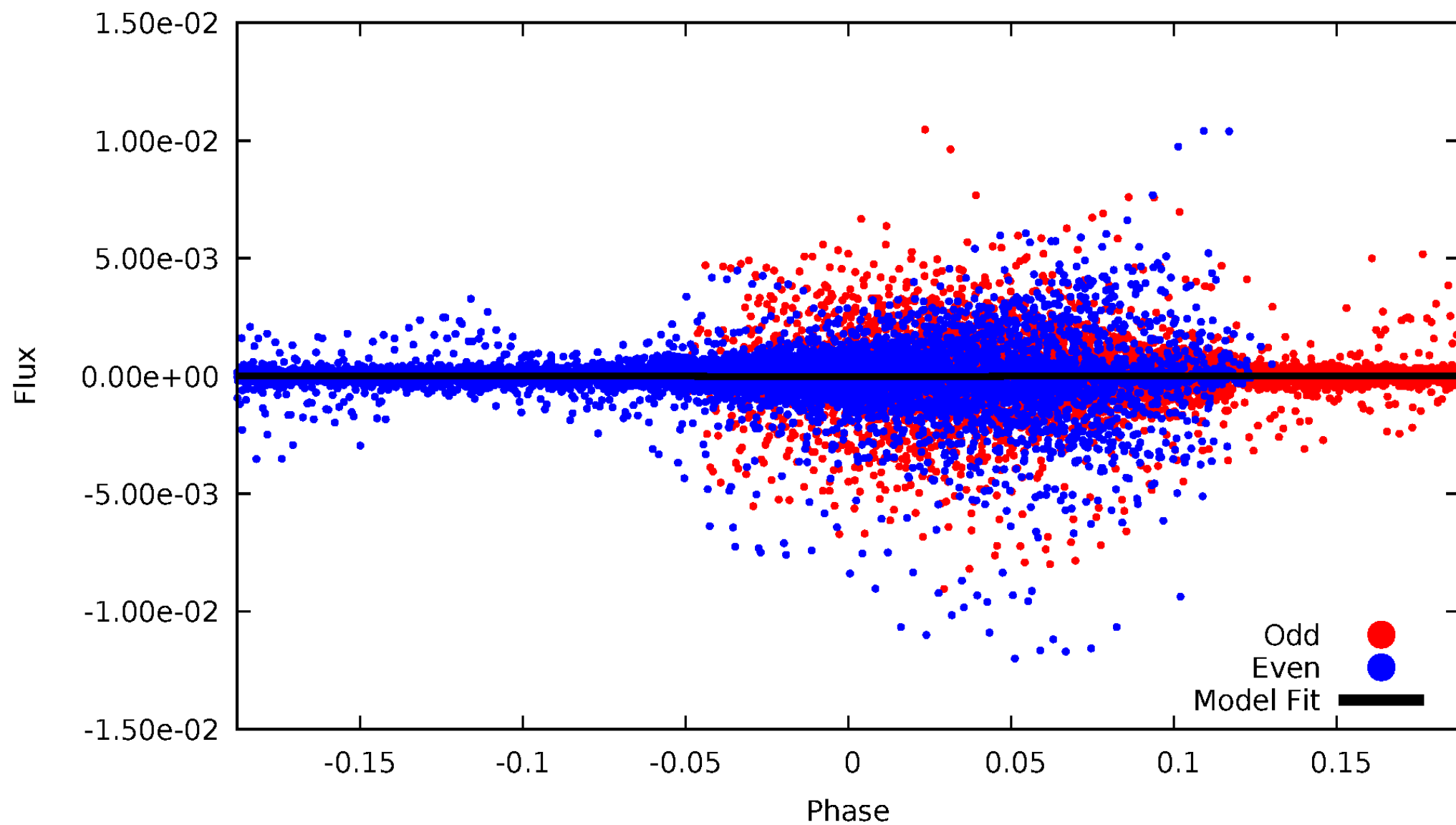
DV Odd/Even

TCE 007257373-03

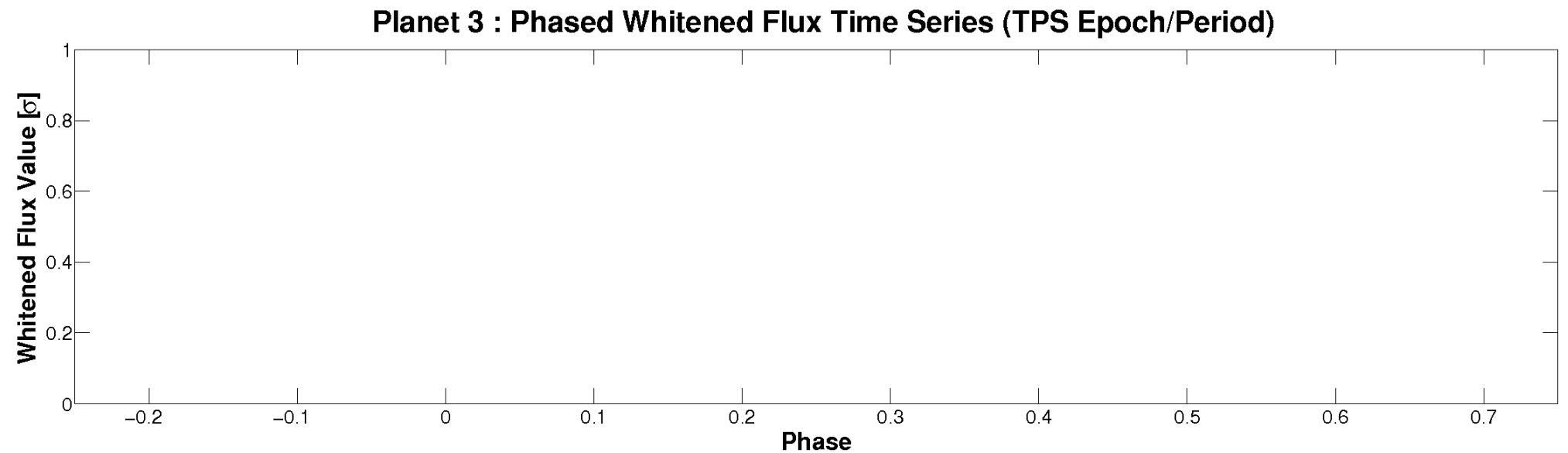
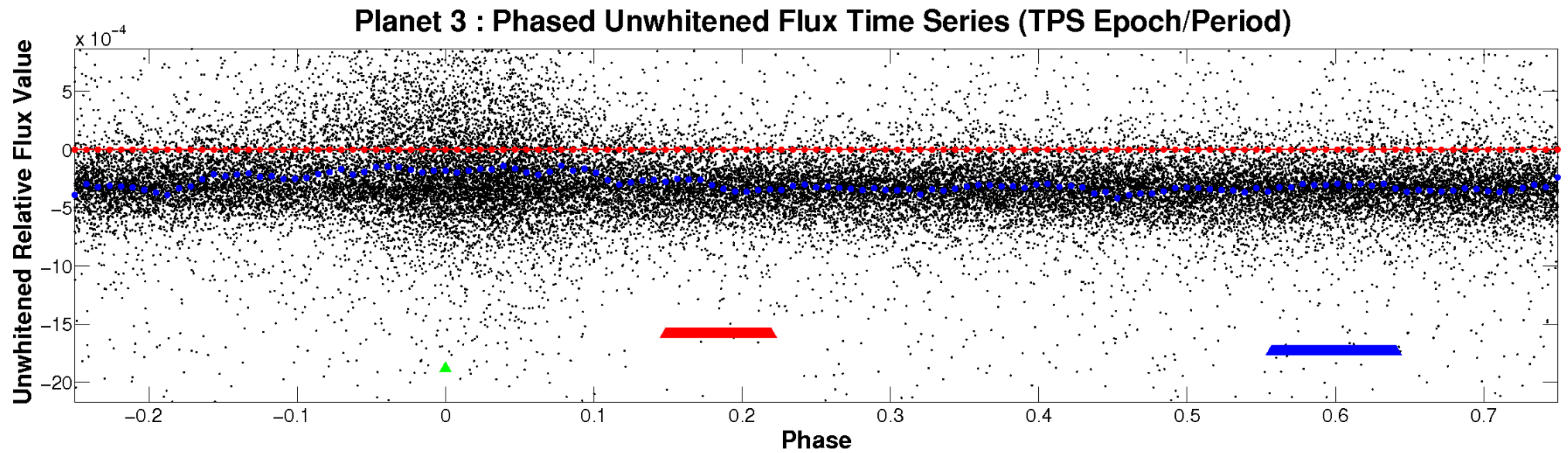


ALT Odd/Even

TCE 007257373-03

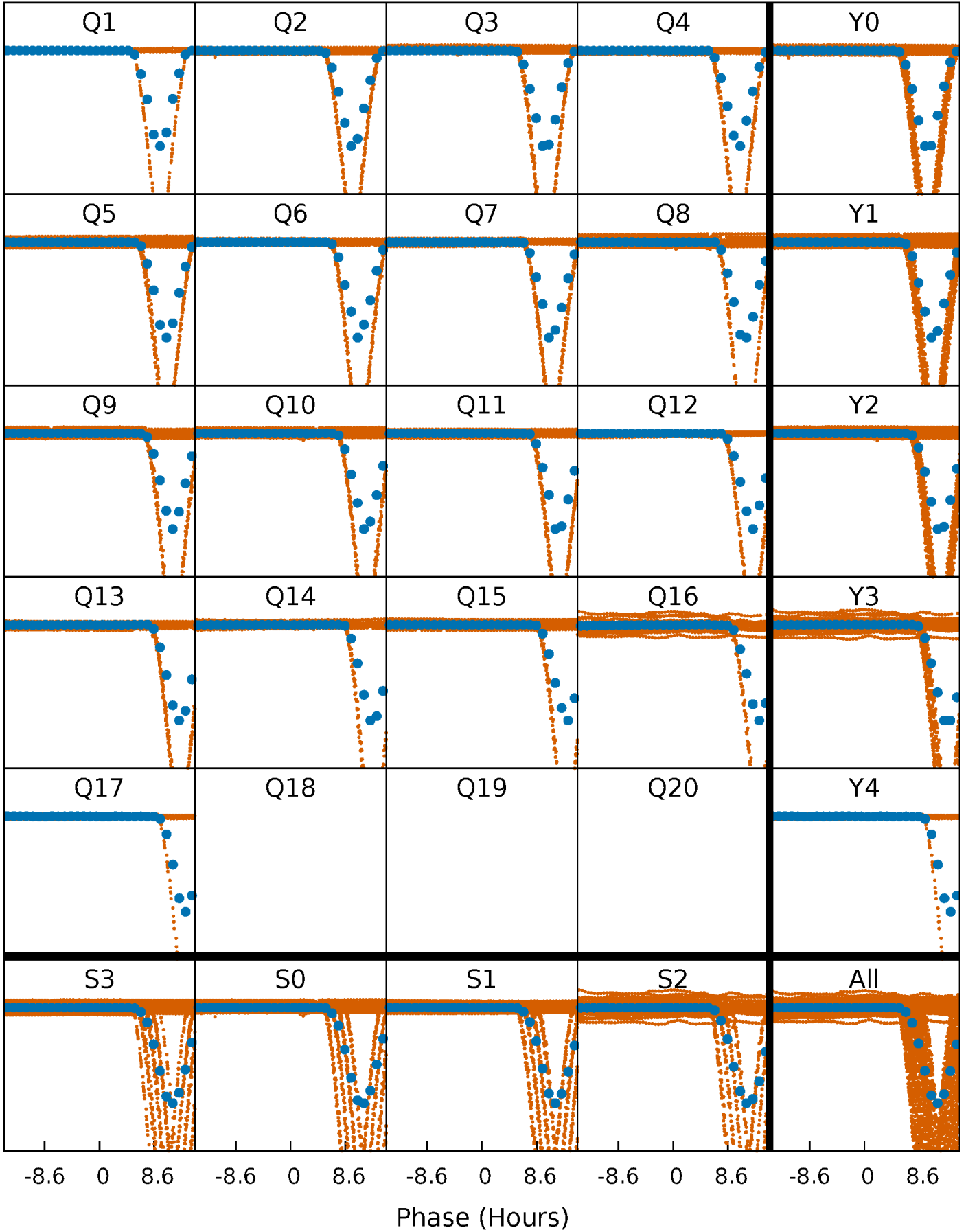


Non-Whitened Vs. Whitened Light Curve



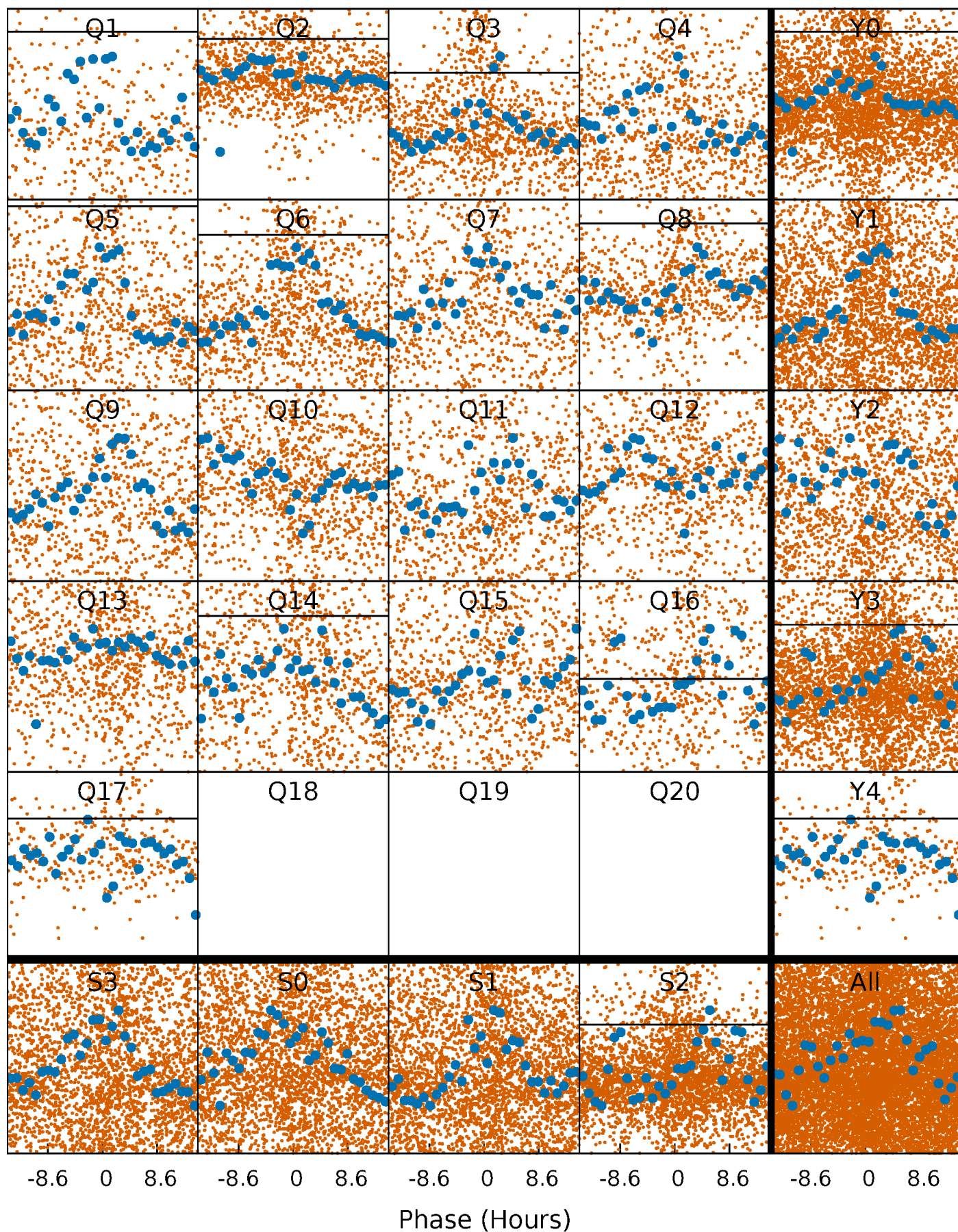
PDC Quarter-Phased Transit Curves

TCE 007257373-03 P= 2.616413 Days $T_0=132.730196$ (BKJD)



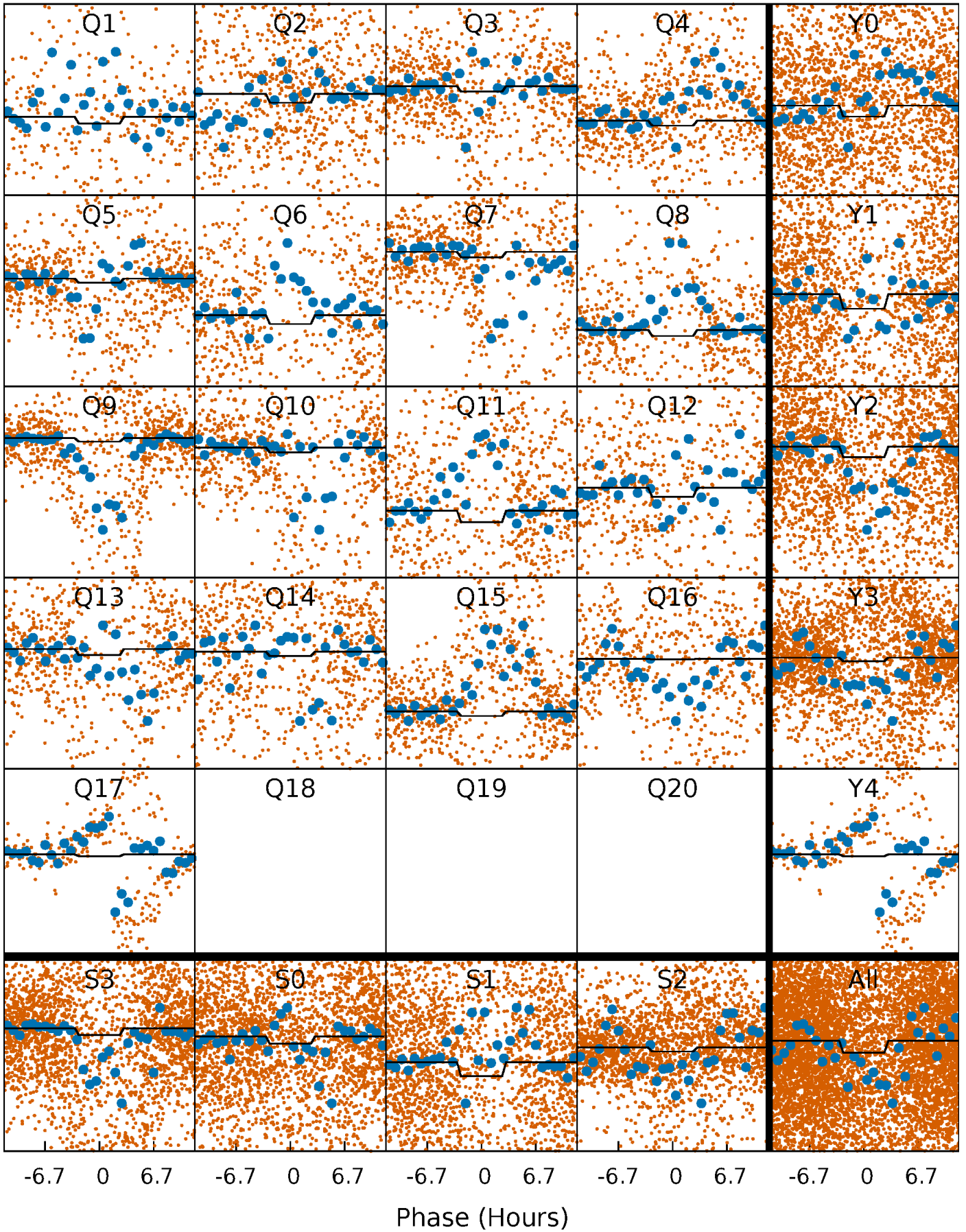
DV Quarter-Phased Transit Curves

TCE 007257373-03 P= 2.616413 Days $T_0=132.730196$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

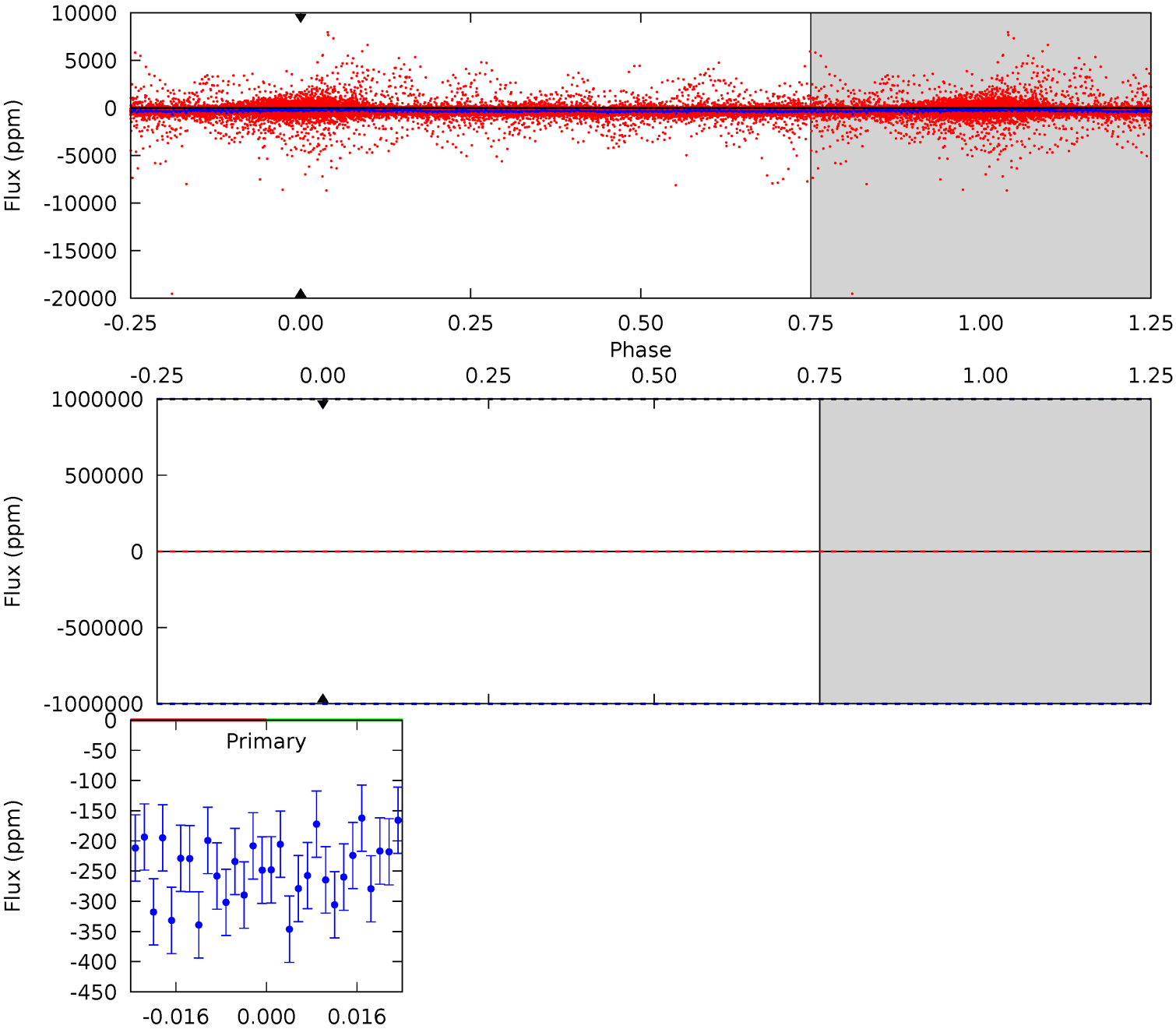
TCE 007257373-03 P= 2.616413 Days $T_0=132.666233$ (BKJD)



DV Model-Shift Uniqueness Test

007257373-03, P = 2.616413 Days, E = 130.113783 Days

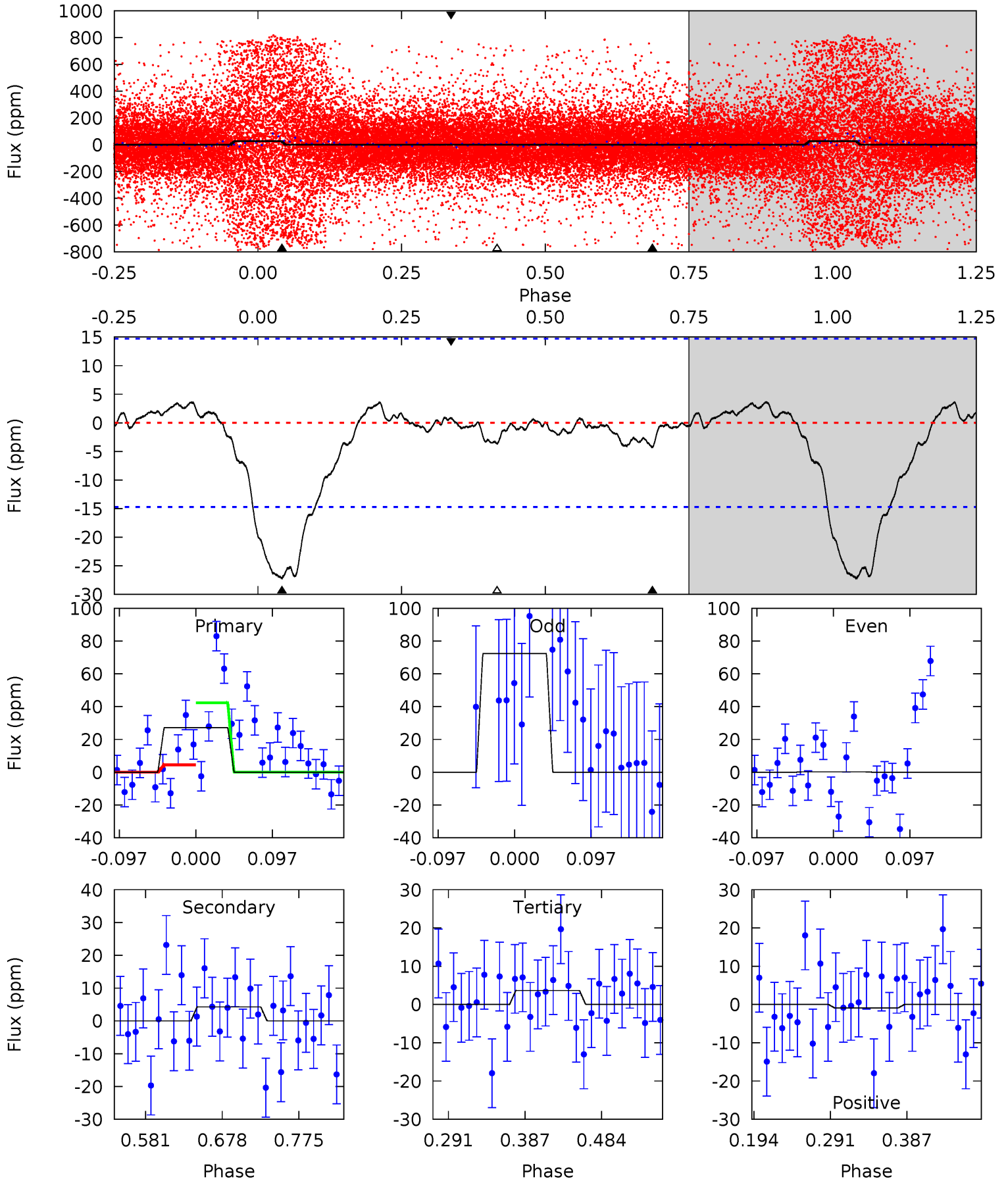
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007257373-03, P = 2.616413 Days, E = 130.049820 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.45	1.33	1.14	0.27	4.57	1.66	0.57	7.32	8.18	0.19	1.06	10.2	-5.16	0.12	5.91



Stellar Parameters For KIC 007257373

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5841^{+164}_{-205}	$4.454^{+0.067}_{-0.202}$	$-0.020^{+0.250}_{-0.300}$	$0.977^{+0.291}_{-0.104}$	$0.992^{+0.128}_{-0.117}$	$1.496^{+0.531}_{-0.760}$
	+3%/-4%	+2%/-5%	+1250%/-1500%	+30%/-11%	+13%/-12%	+36%/-51%
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 007257373-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$13.65^{+10.85}_{-8.60}$	1878^{+133}_{-96}	3667^{+9191}_{-15018}	$5.827^{+673.206}_{-550.132}$
Alt.	-4 ± 3	$8.01^{+8.98}_{-5.43}$	1875^{+129}_{-100}	-2355^{+4621}_{-109}	$0.037^{+0.451}_{-0.033}$

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

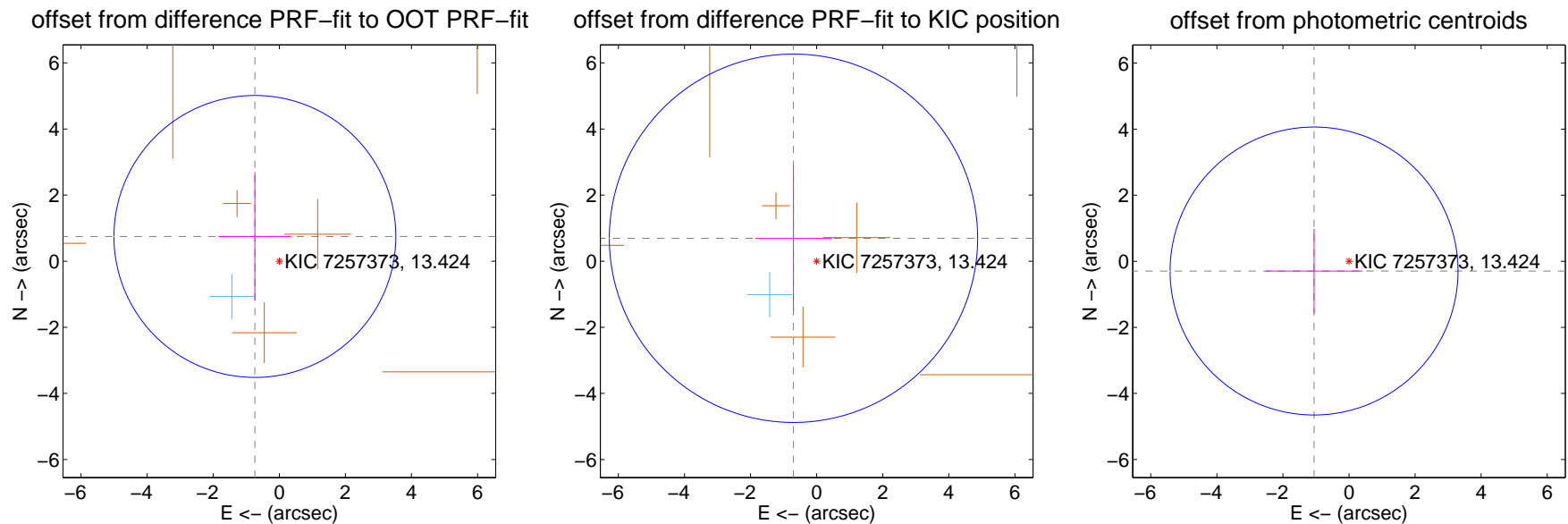
DV Centroid Data

Supplemental centroid analysis for 007257373-03. Kepler magnitude: 13.42. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

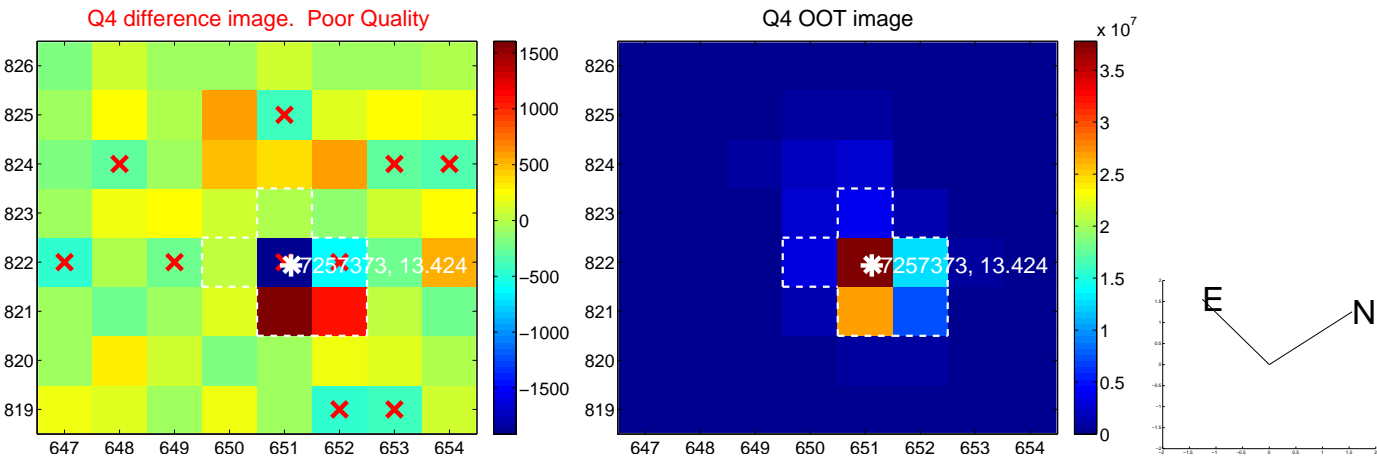
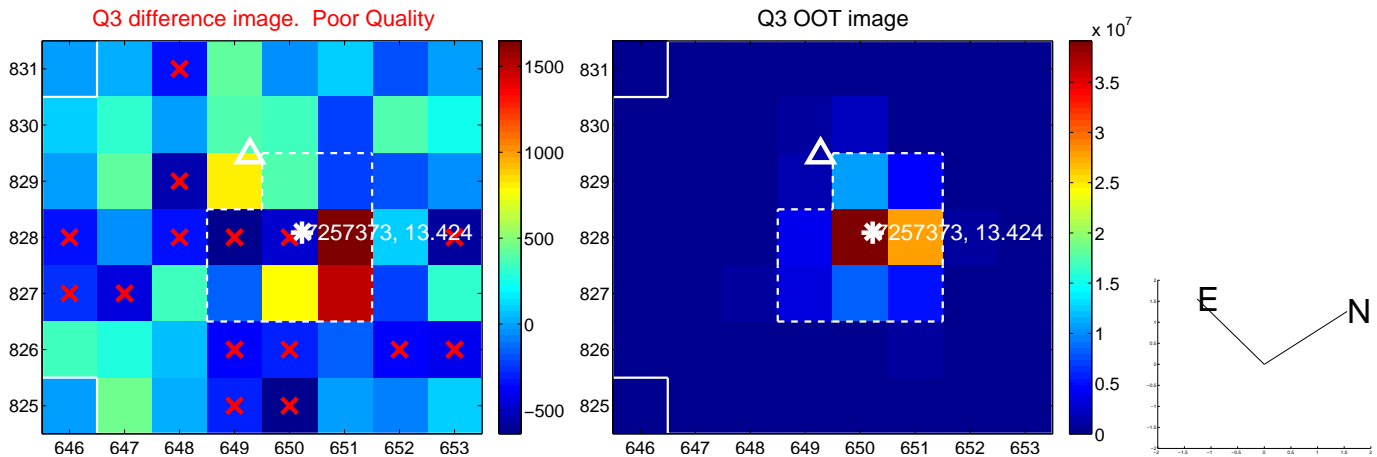
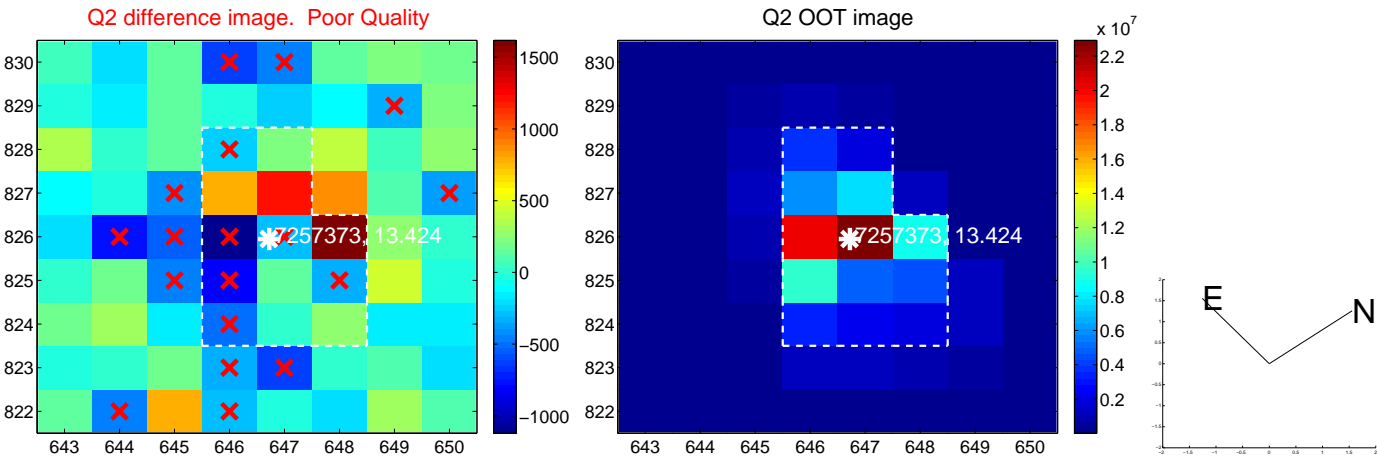
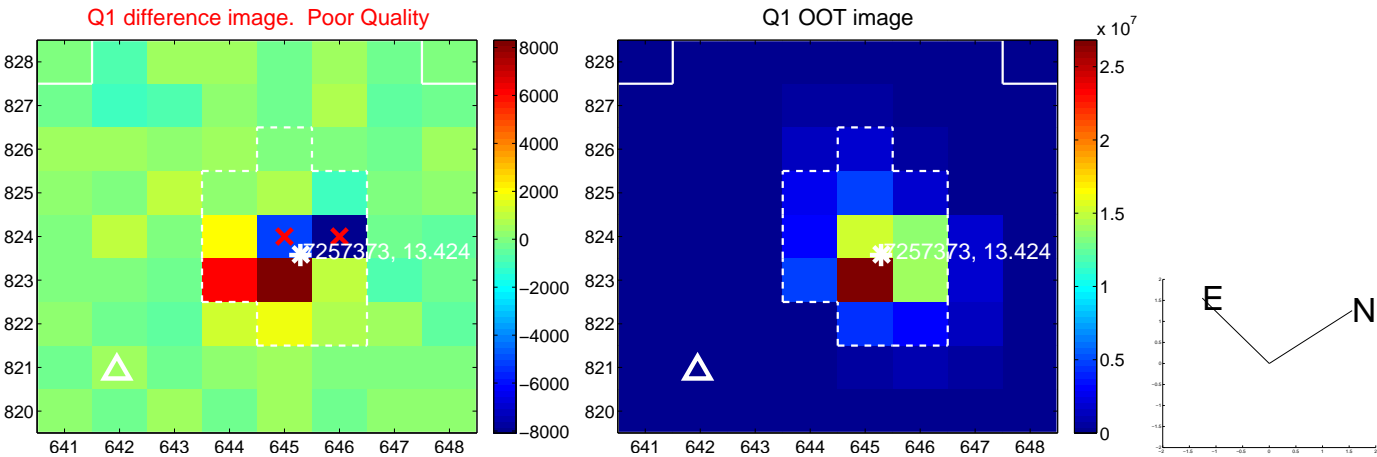
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.052 ± 1.422	0.74	0.739 ± 1.102	0.749 ± 1.942
PRF-fit source offset from KIC position	0.986 ± 1.858	0.53	0.701 ± 1.159	0.694 ± 2.194
photometric centroid source offset	1.10 ± 1.45	0.76	1.06 ± 1.47	-0.29 ± 1.28

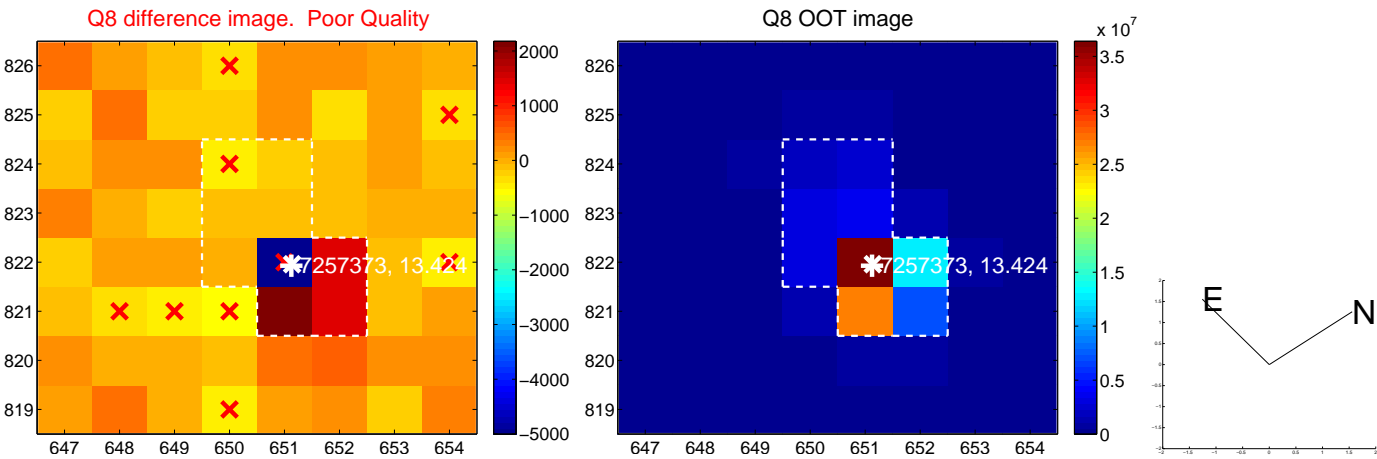
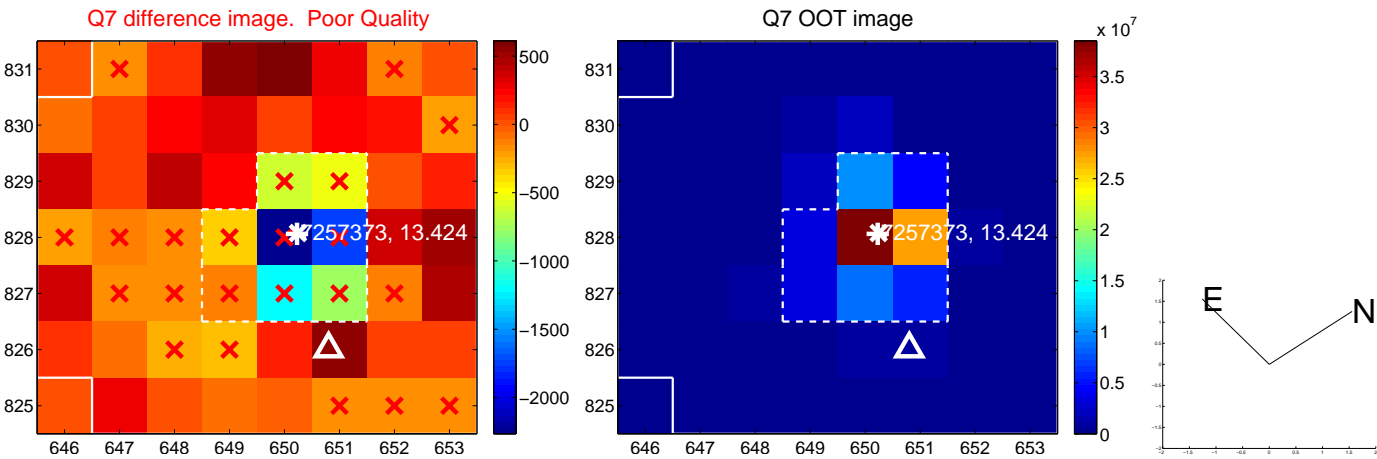
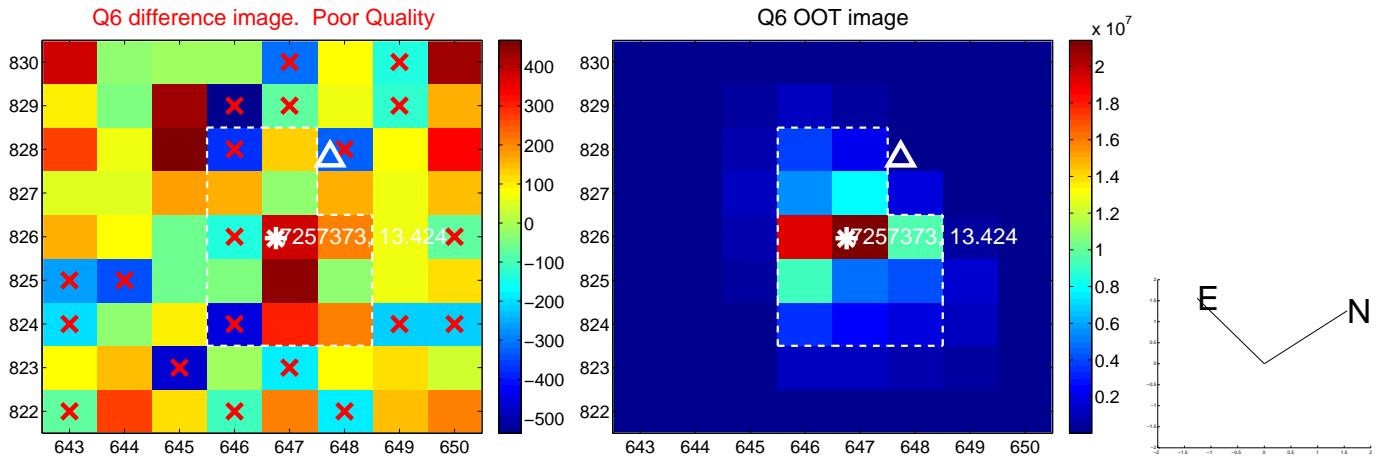
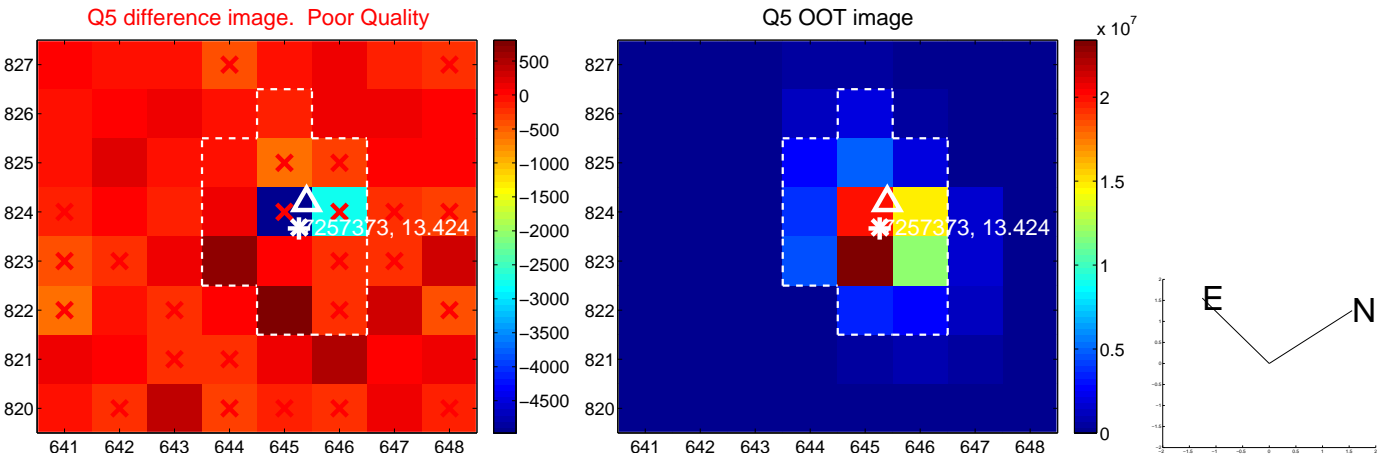


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

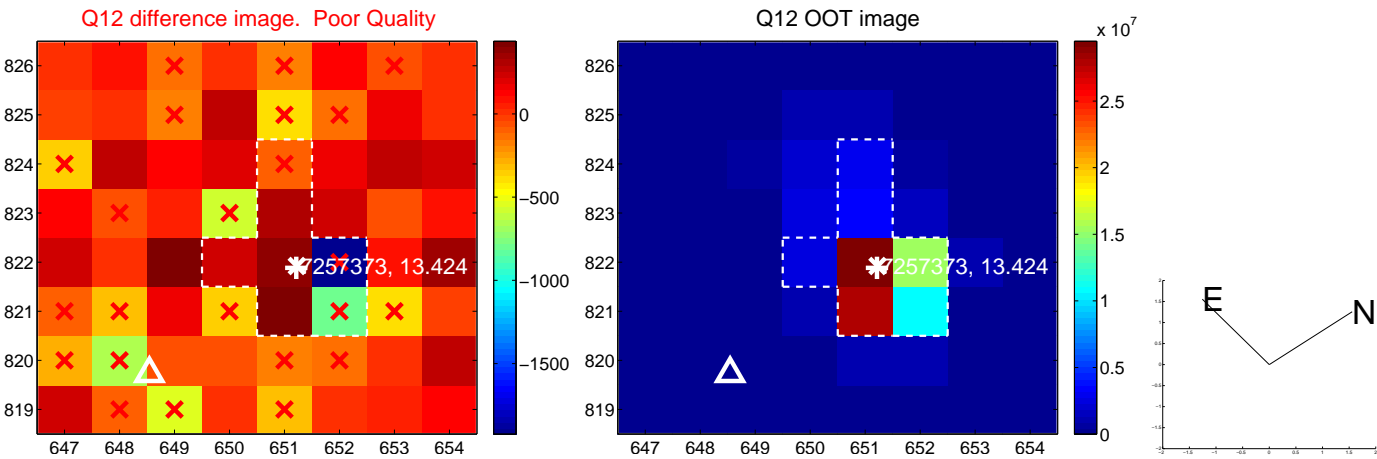
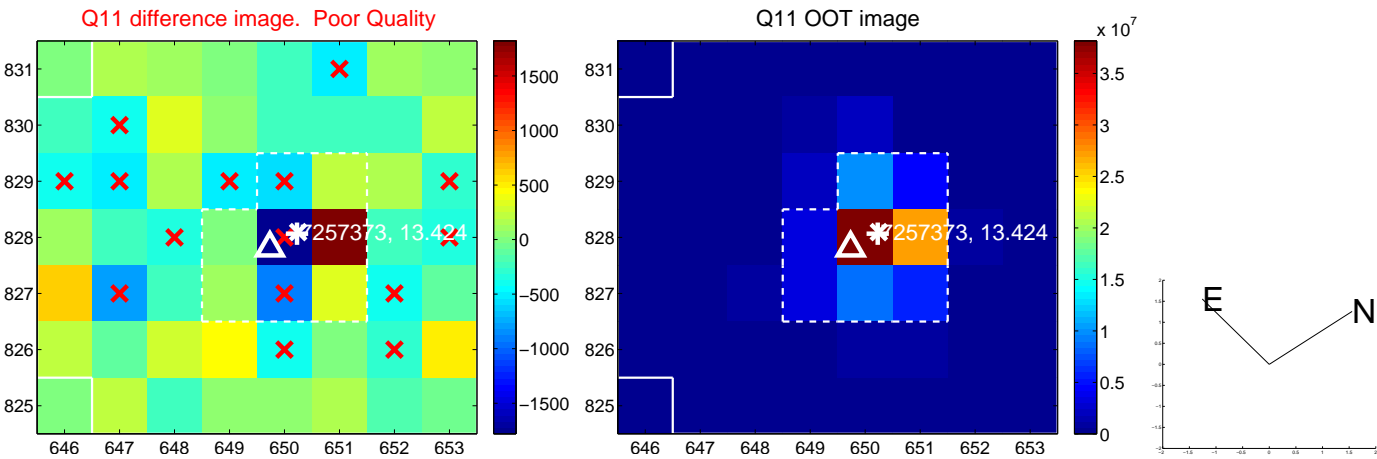
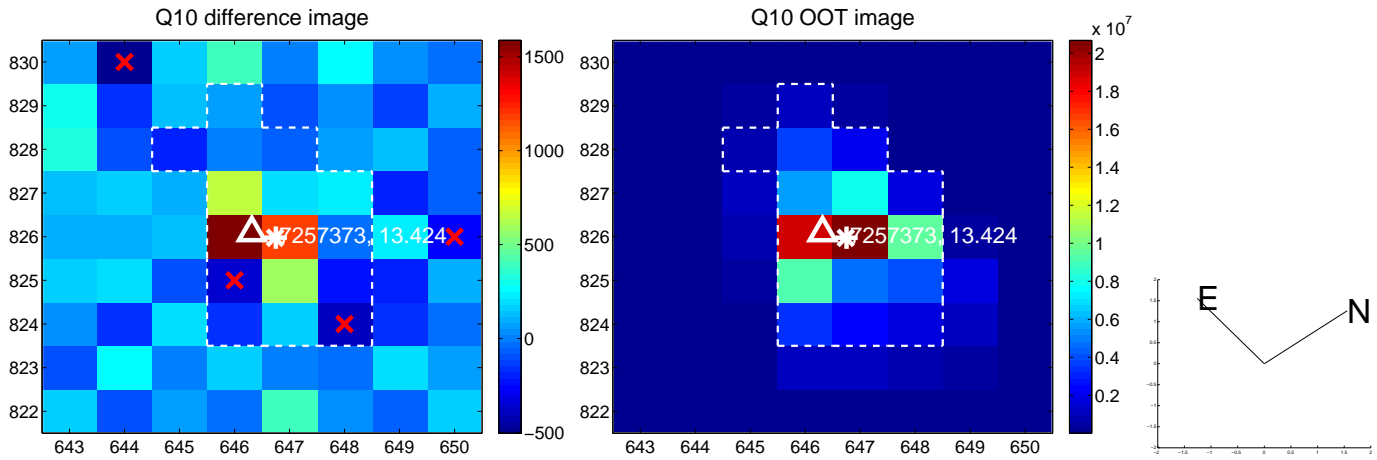
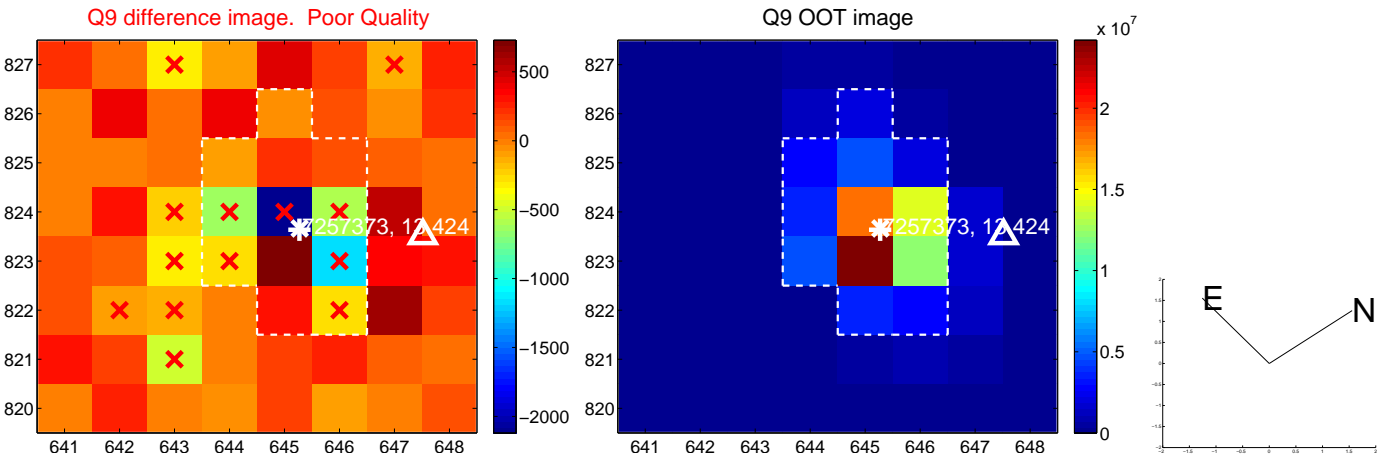
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



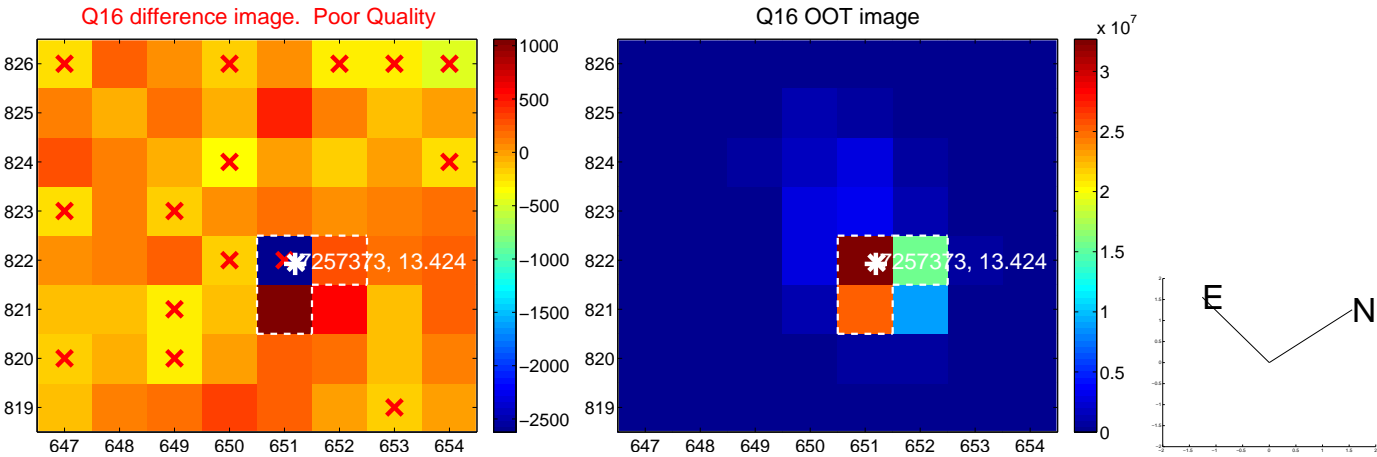
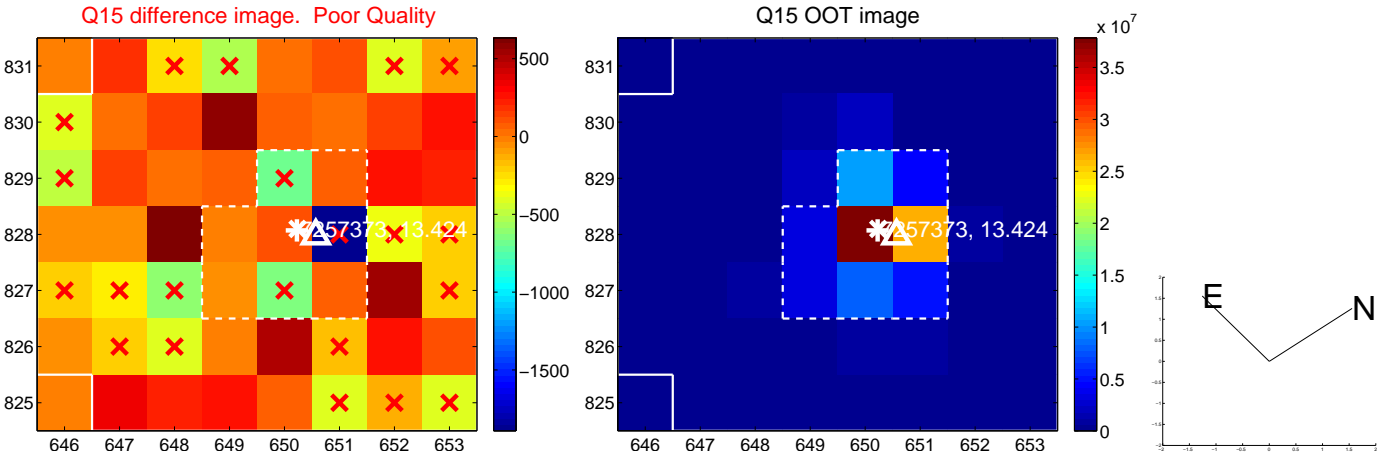
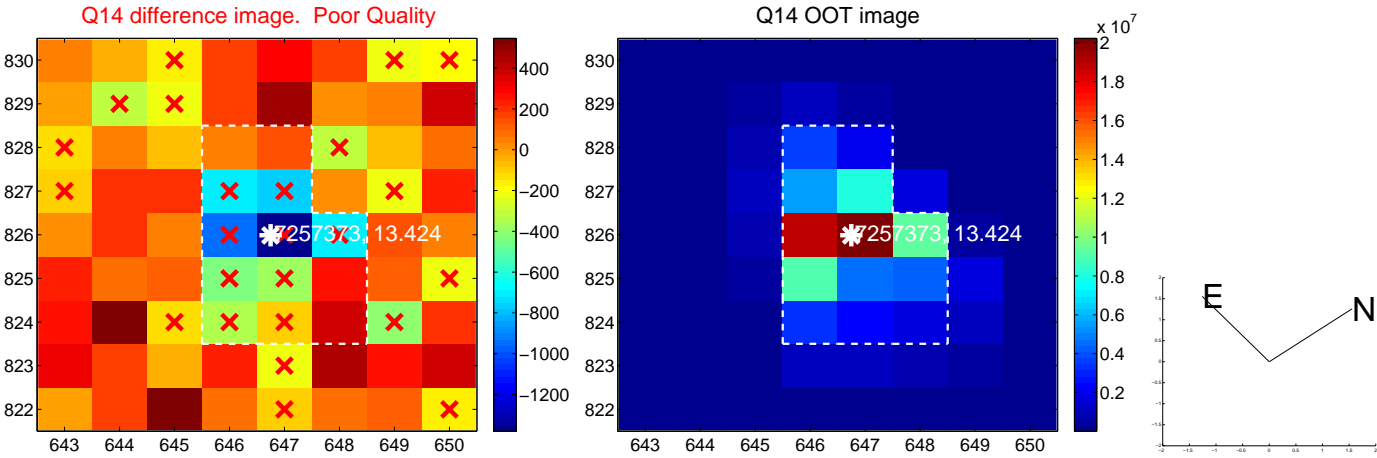
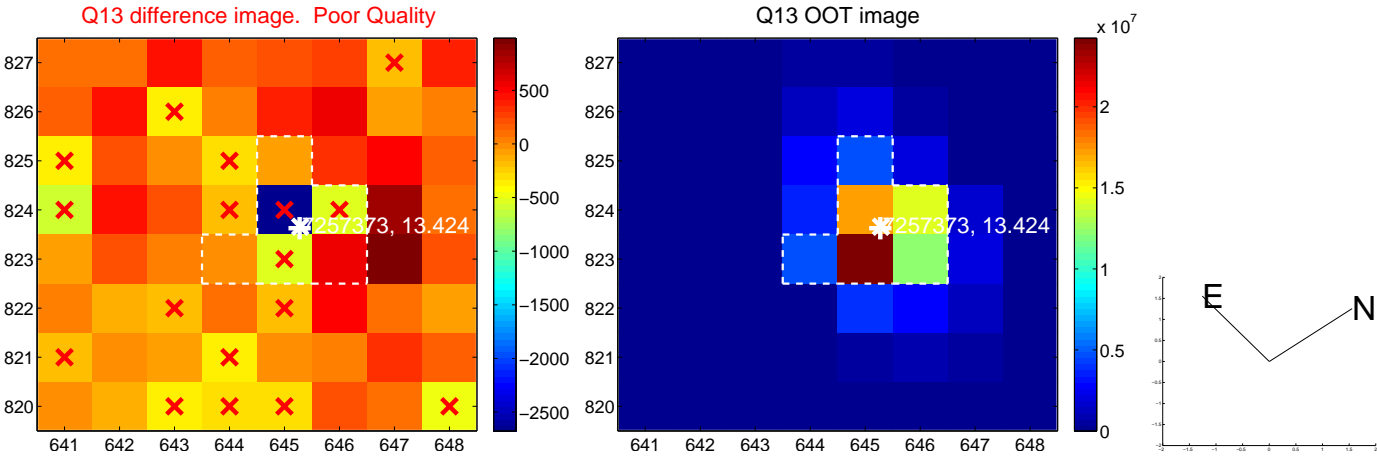
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



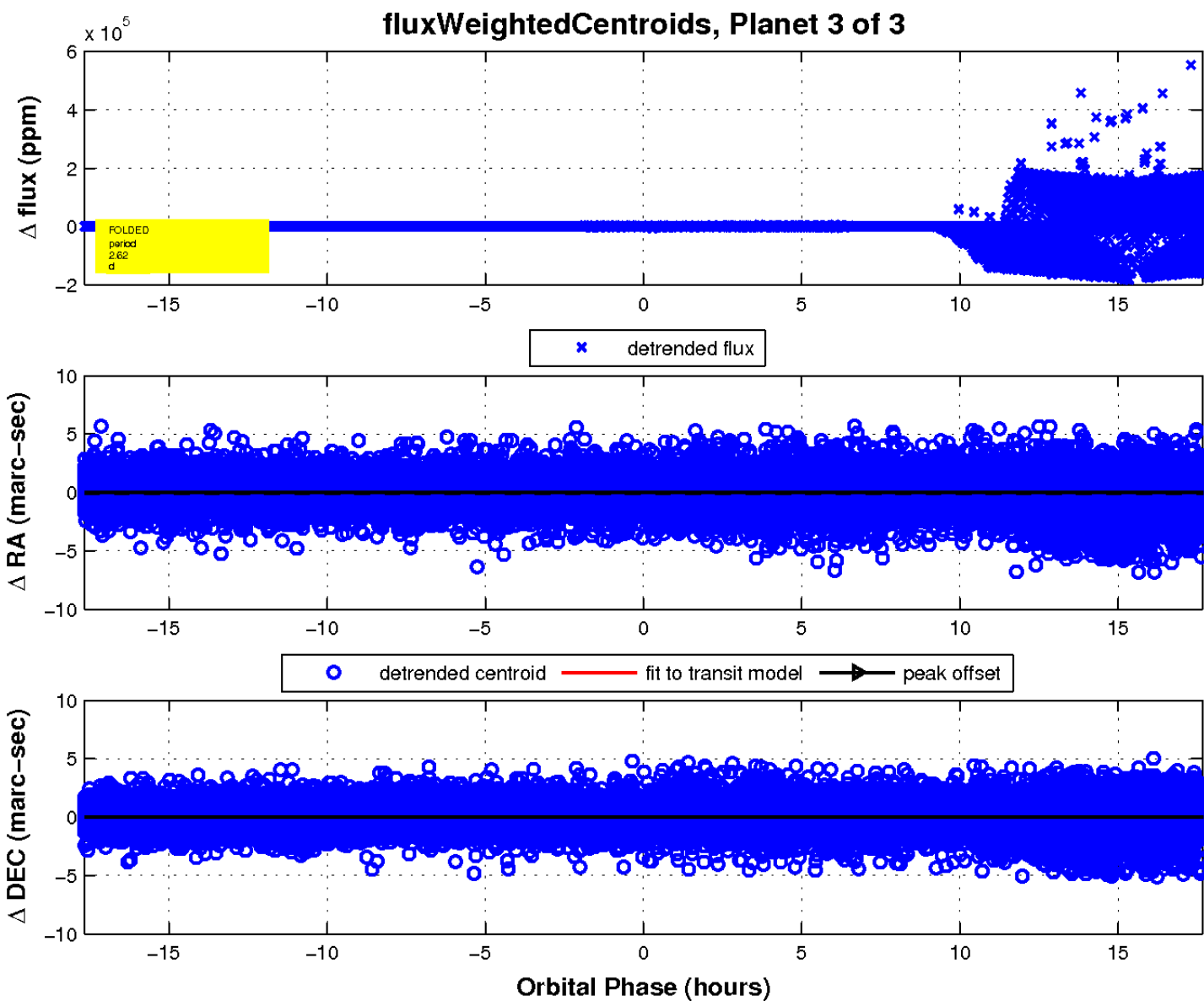
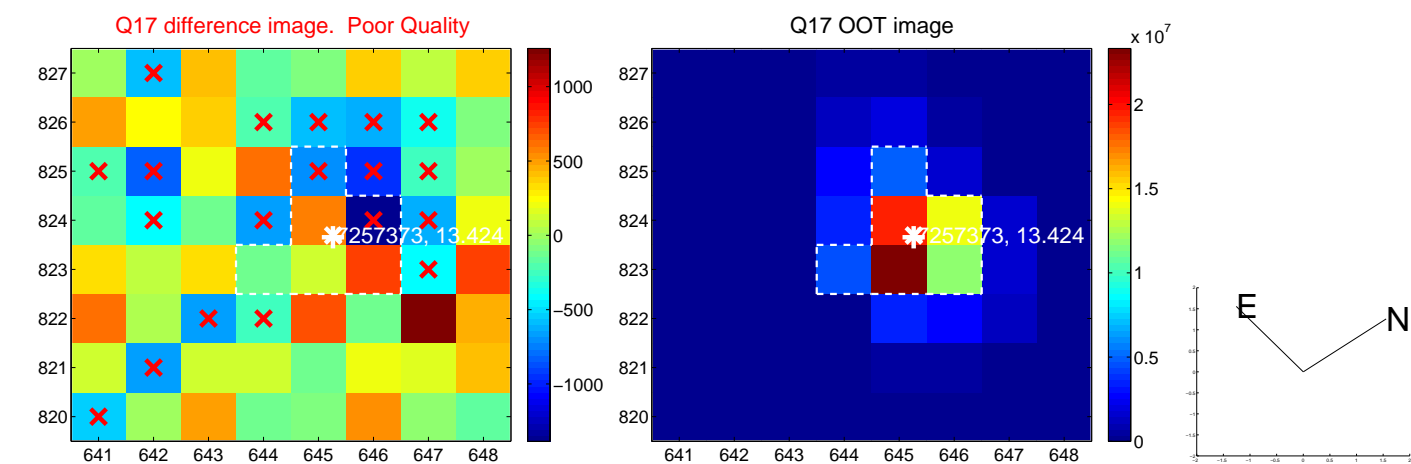
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

