

KIC 006806632

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})
006806632-01	OBS	6772.01	9.469190	140.975728	63627.3	9.579	4749.9	4187.4	1.83	9454	49.36	1880.28
006806632-02	OBS	No	9.469206	138.166859	8328.9	7.478	723.1	681.0	1.83	9454	18.35	1880.28
006806632-03	OBS	No	9.469378	139.401975	341.1	31.956	9.9	15.6	1.83	9454	6.21	1880.23

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006806632-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006806632-02	OBS	FP	0.00	1	0	0	0	SAME_NTL_PERIOD
006806632-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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.

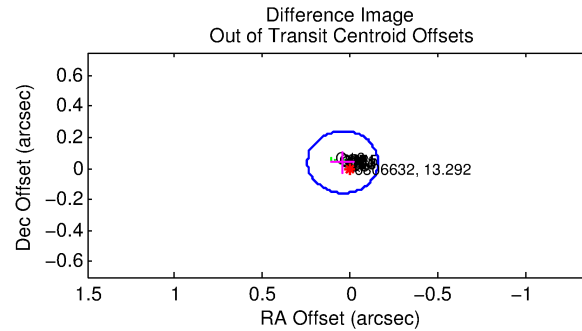
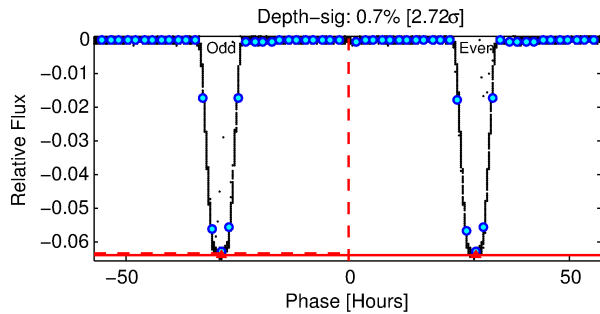
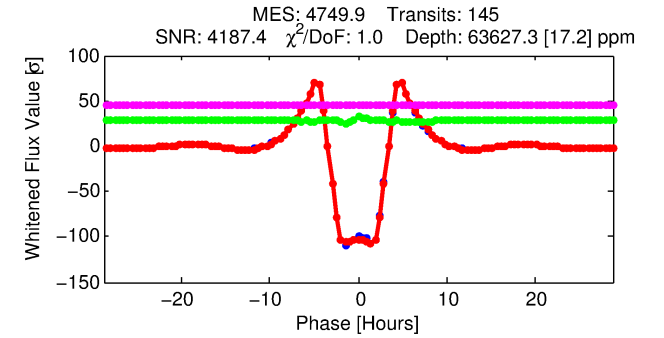
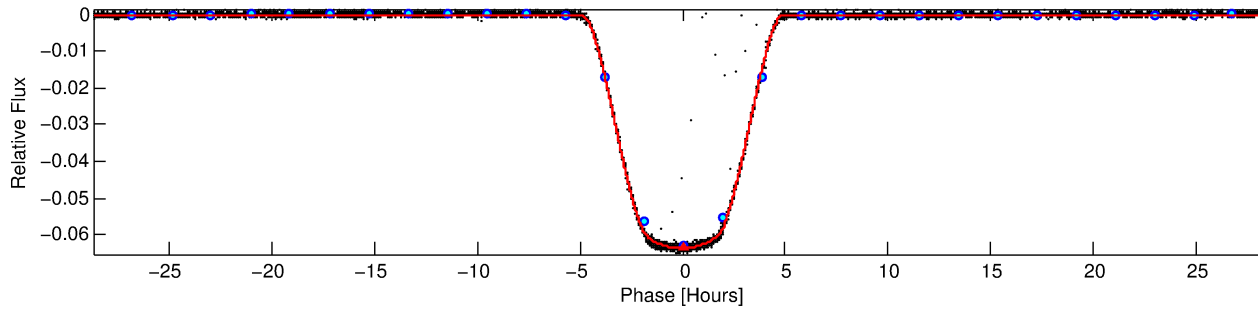
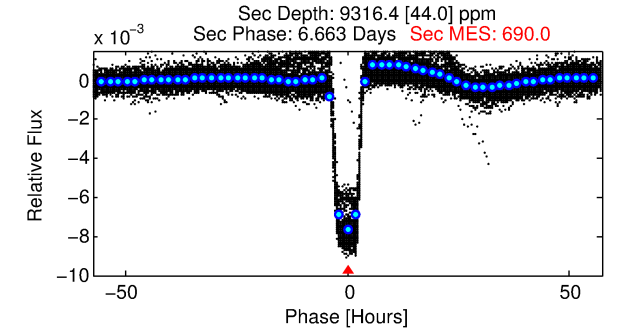
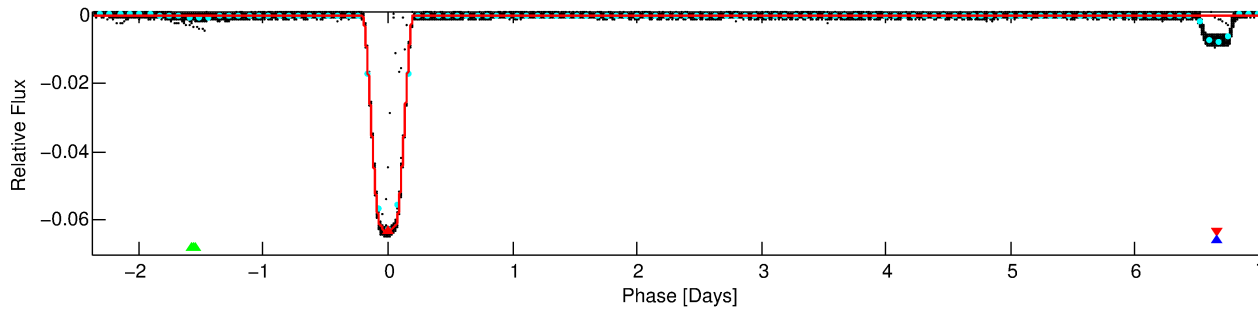
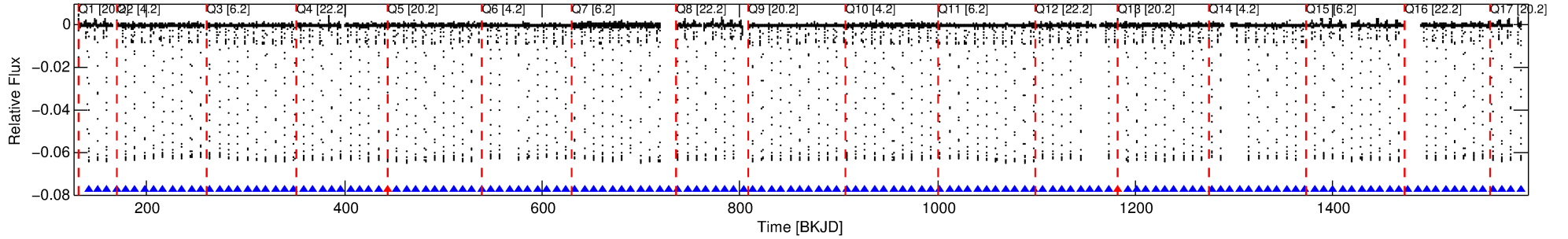
Ephemeris Match Information For 006806632-01

No Significant Match Found

DV One-Page Summary

KIC: 6806632 Candidate: 1 of 3 Period: 9.469 d
KOI: K06772.01 Corr: 0.999

Kp: 13.29 R*: 1.83 Rs Teff: 9454.0 K Logg: 4.24 Fe/H: 0.070



DV Fit Results:

Period = 9.46919 [0.00000] d
Epoch = 140.9757 [0.0000] BKJD
Rp/R* = 0.2469 [0.0000]
a/R* = 8.17 [0.00]
b = 0.63 [0.00]
Seff = 1880.28 [933.31]
Teq = 1679 [208] K
Rp = 49.36 [21.80] Re
a = 0.1130 [0.0390] AU
Ag = 26.88 [12.48] [2.07σ]
Teffp = 5911 [259] K [12.73σ]

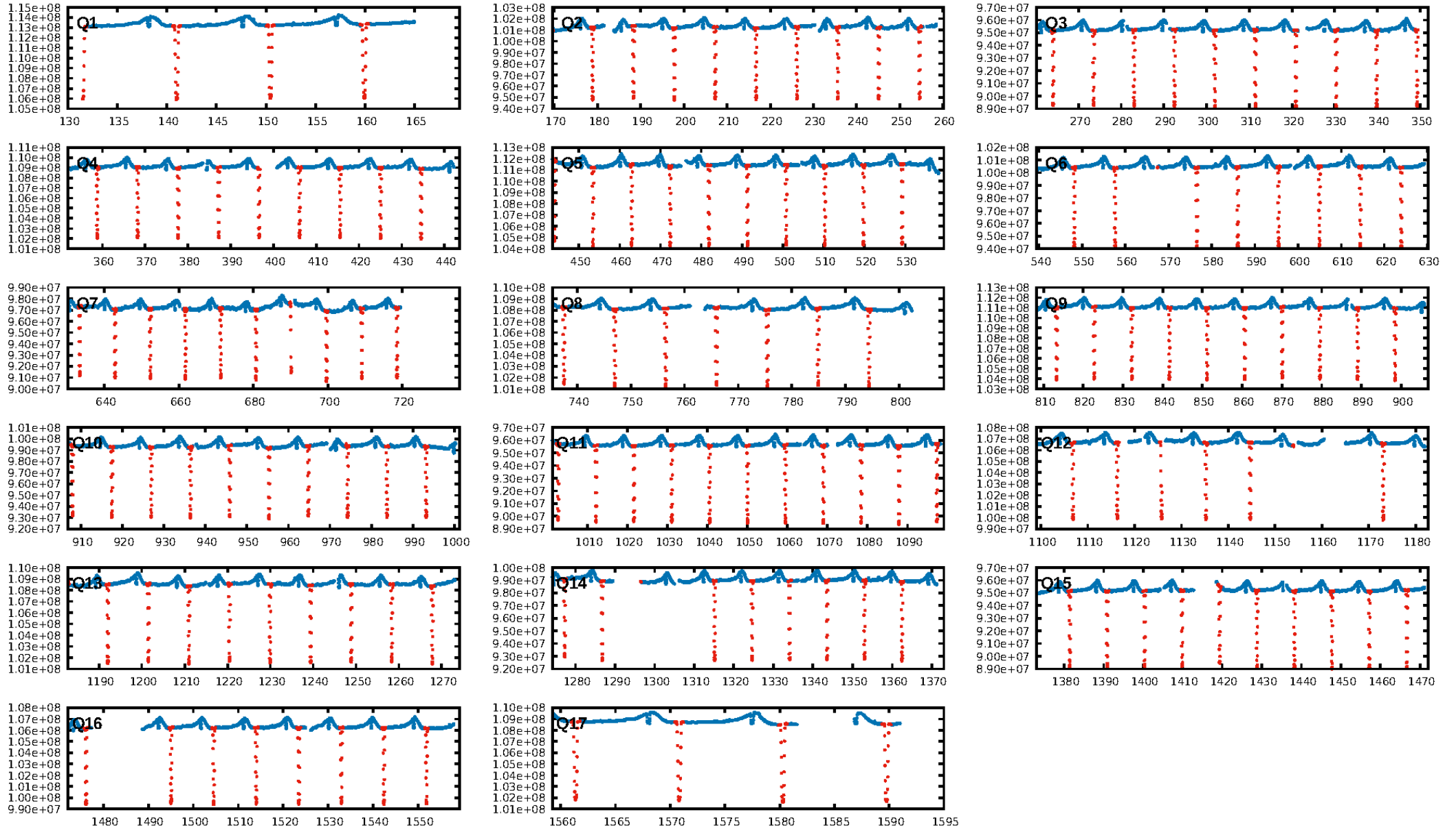
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.99 [135/137]
GhostDiagnostic-chr: 4.034
Centroid-sig: N/A
Centroid-so: 0.170 arcsec [98.53σ]
OotOffset-rm: 0.060 arcsec [0.89σ]
KicOffset-rm: 0.101 arcsec [1.48σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

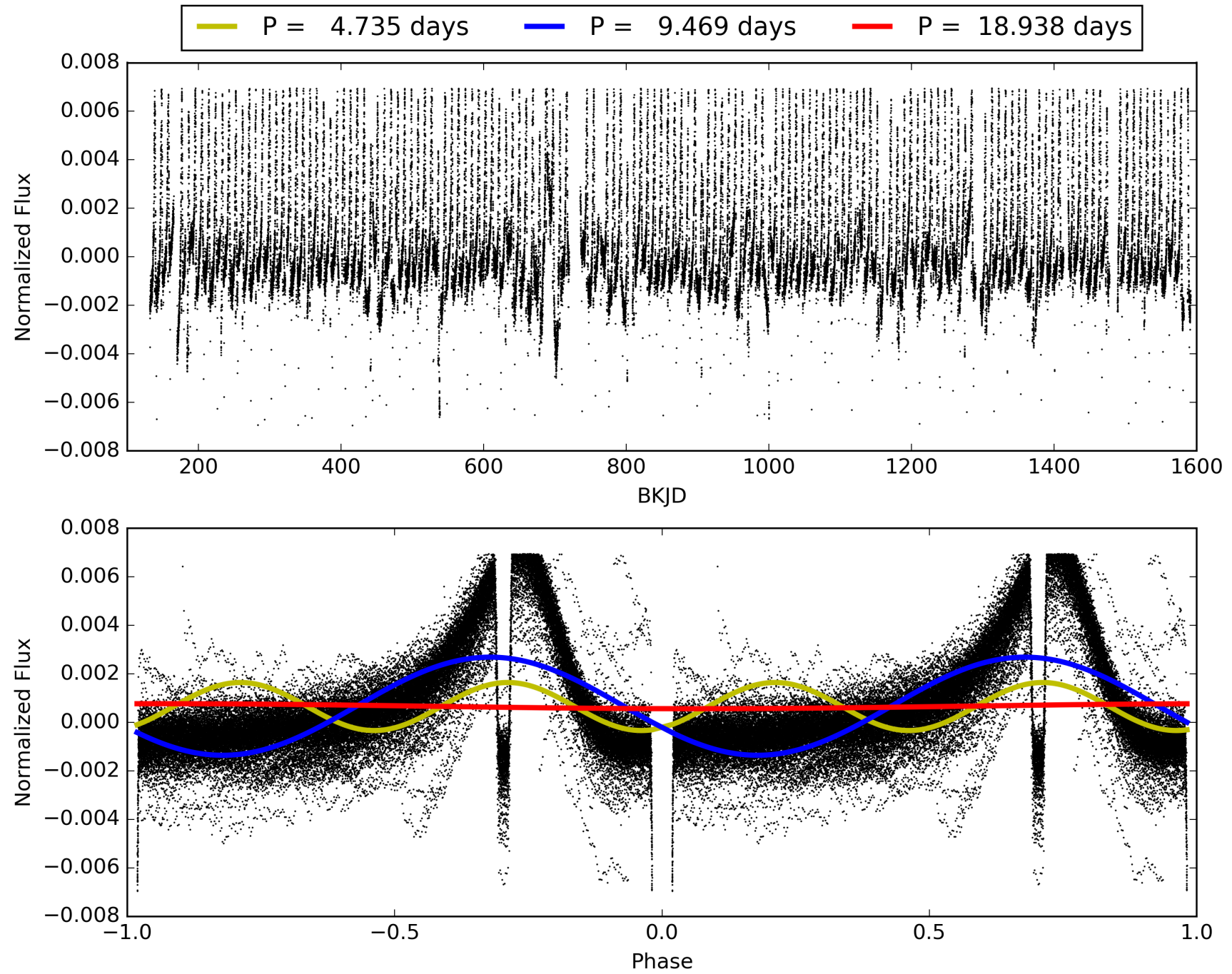
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:08:48 Z

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

TCE 006806632-01, PDC Light Curves

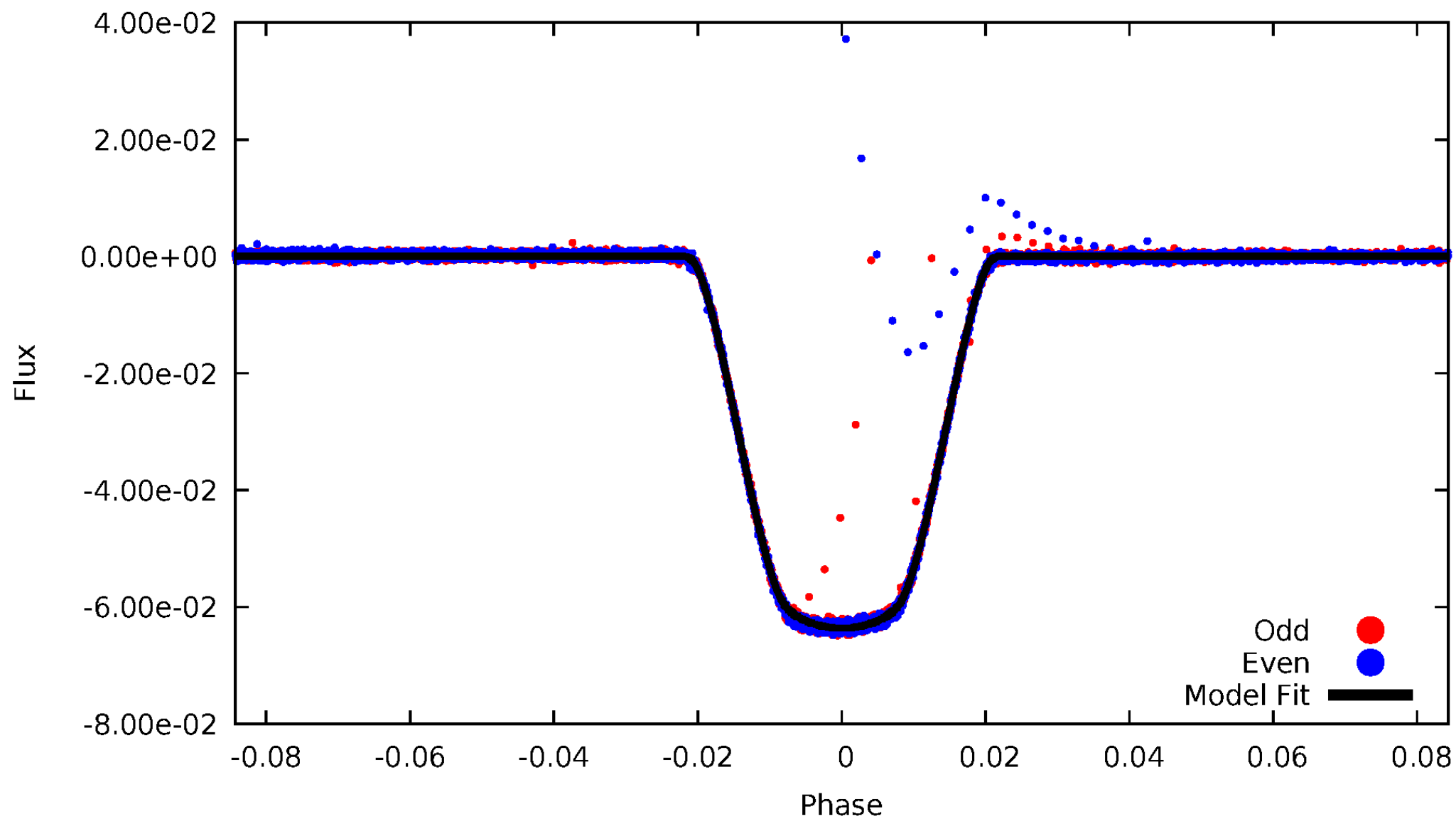


TCE 006806632-01



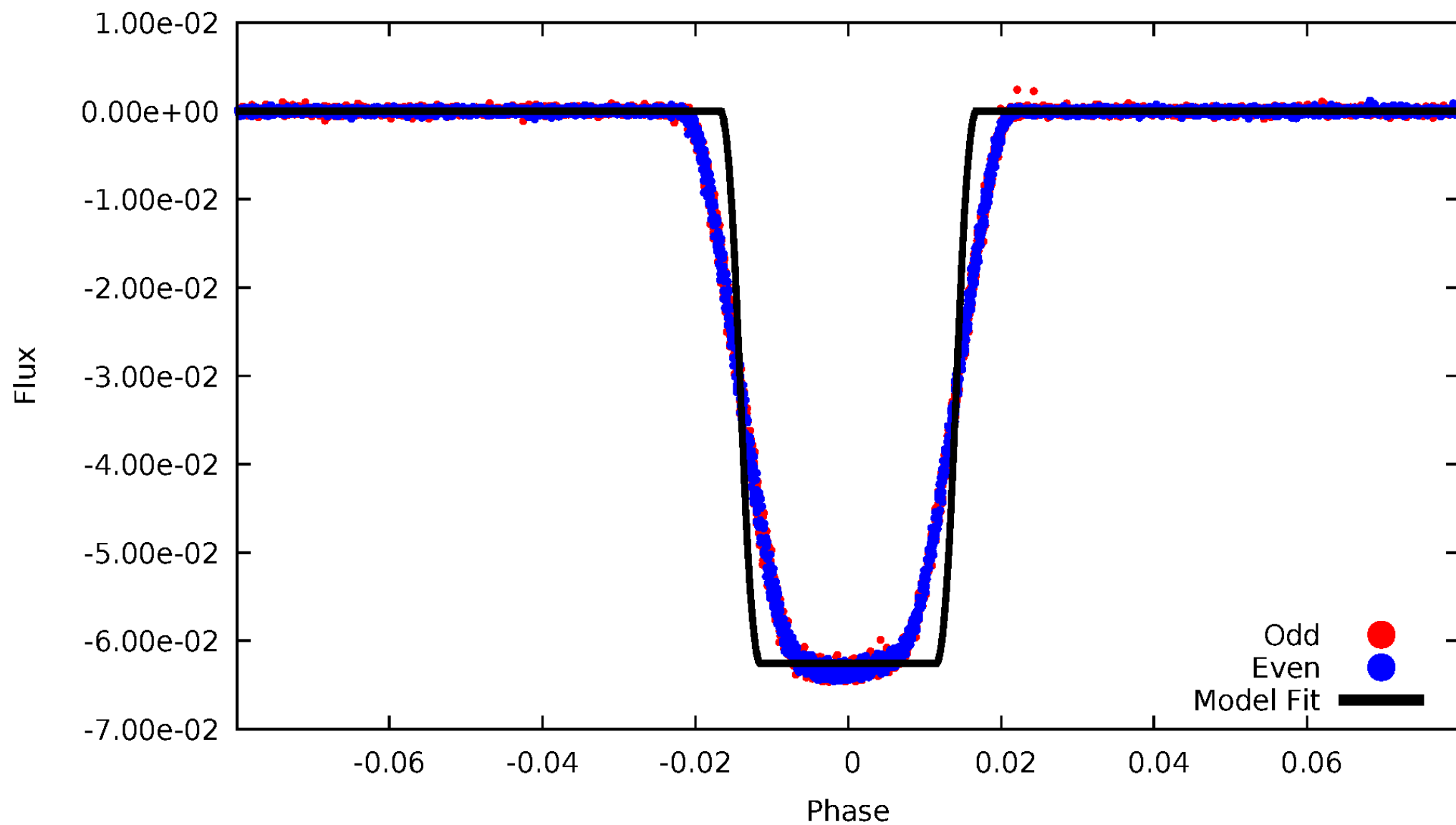
DV Odd/Even

TCE 006806632-01



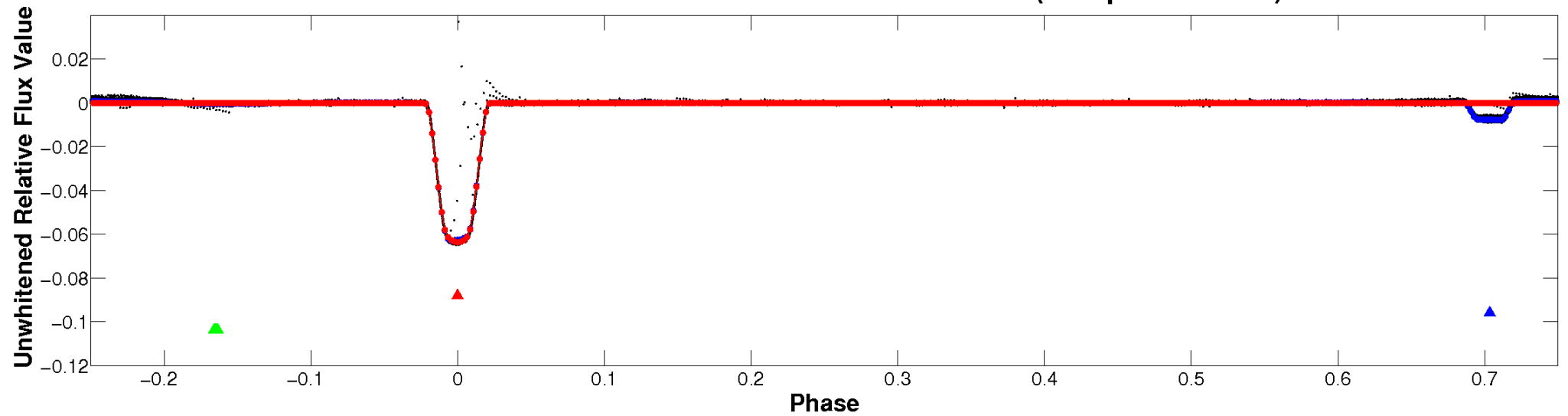
ALT Odd/Even

TCE 006806632-01

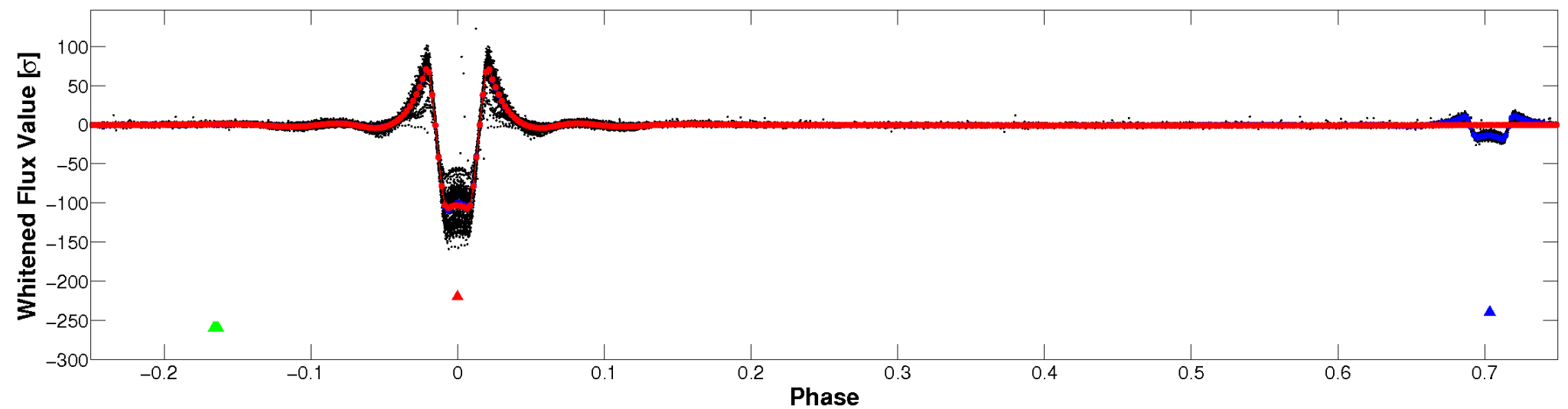


Non-Whitened Vs. Whitened Light Curve

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

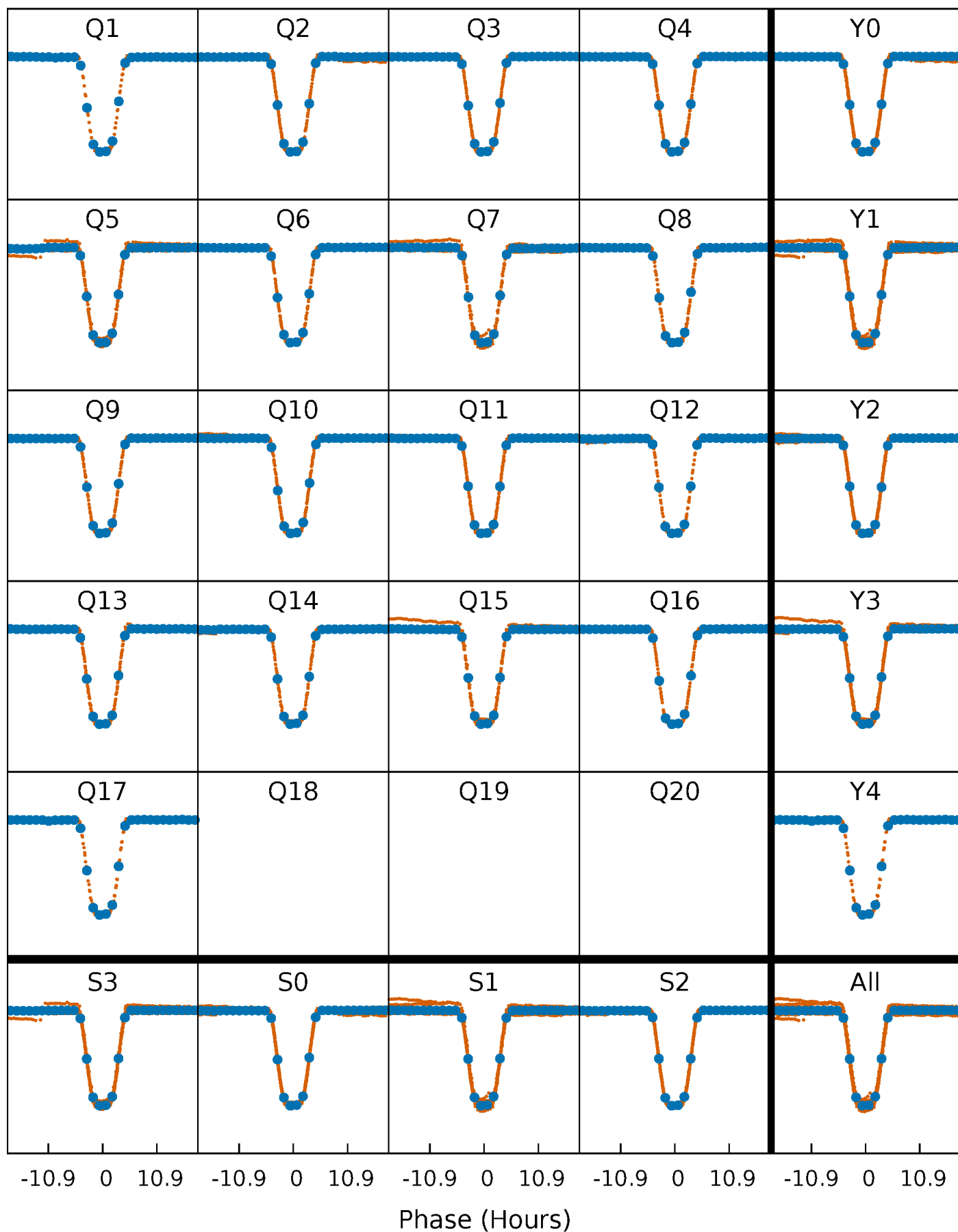


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



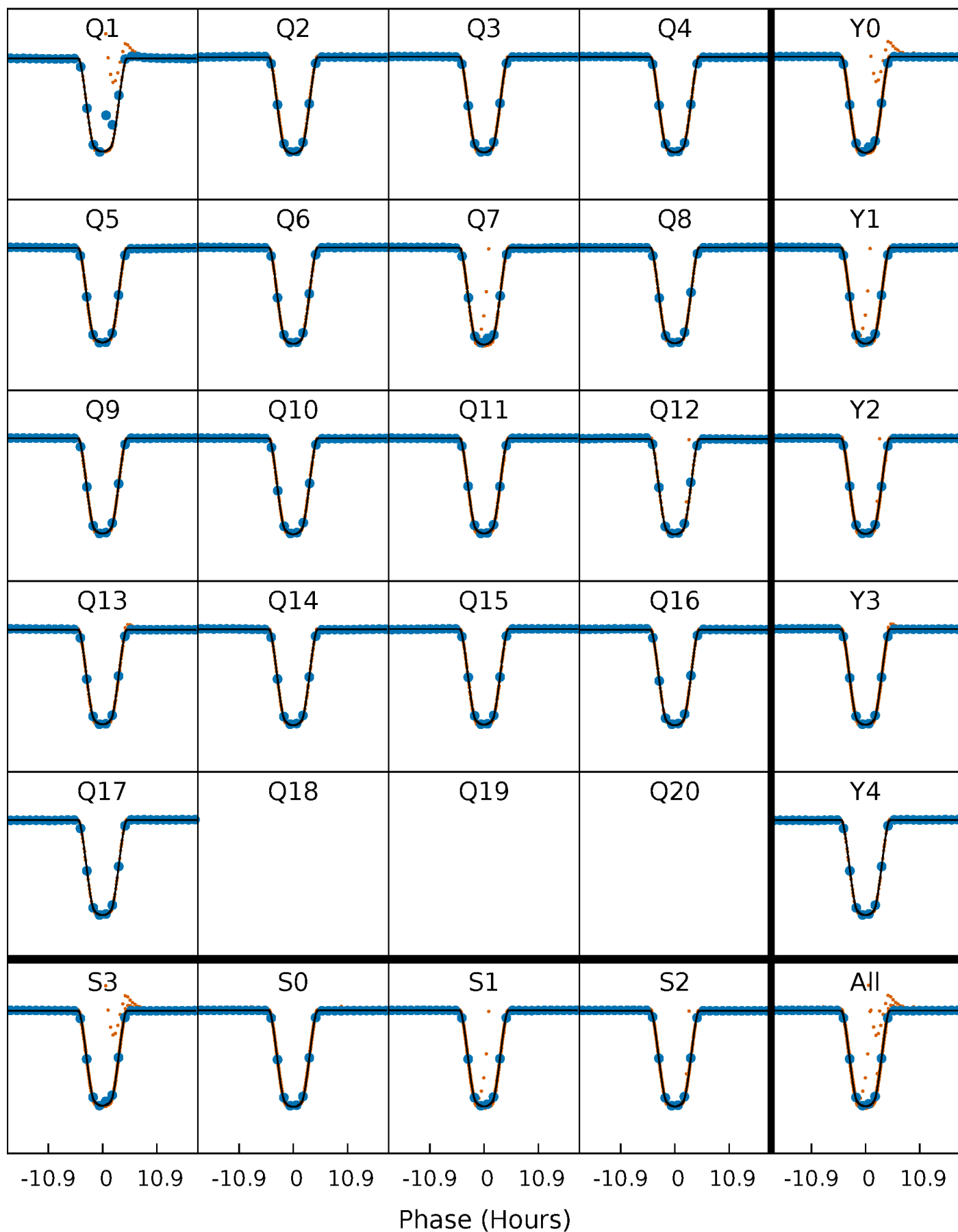
PDC Quarter-Phased Transit Curves

TCE 006806632-01 P= 9.469190 Days $T_0=140.975728$ (BKJD)



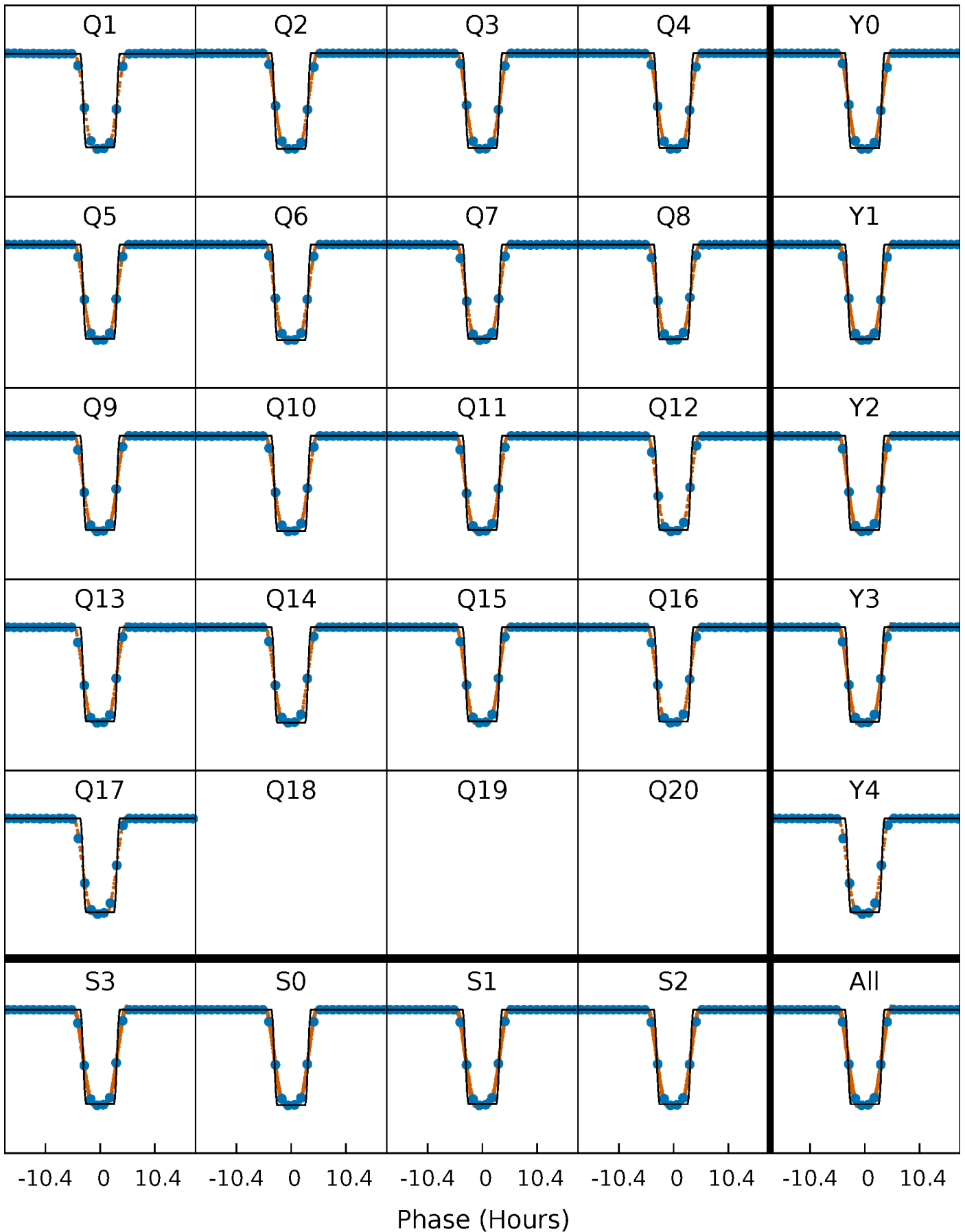
DV Quarter-Phased Transit Curves

TCE 006806632-01 P= 9.469190 Days $T_0=140.975728$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

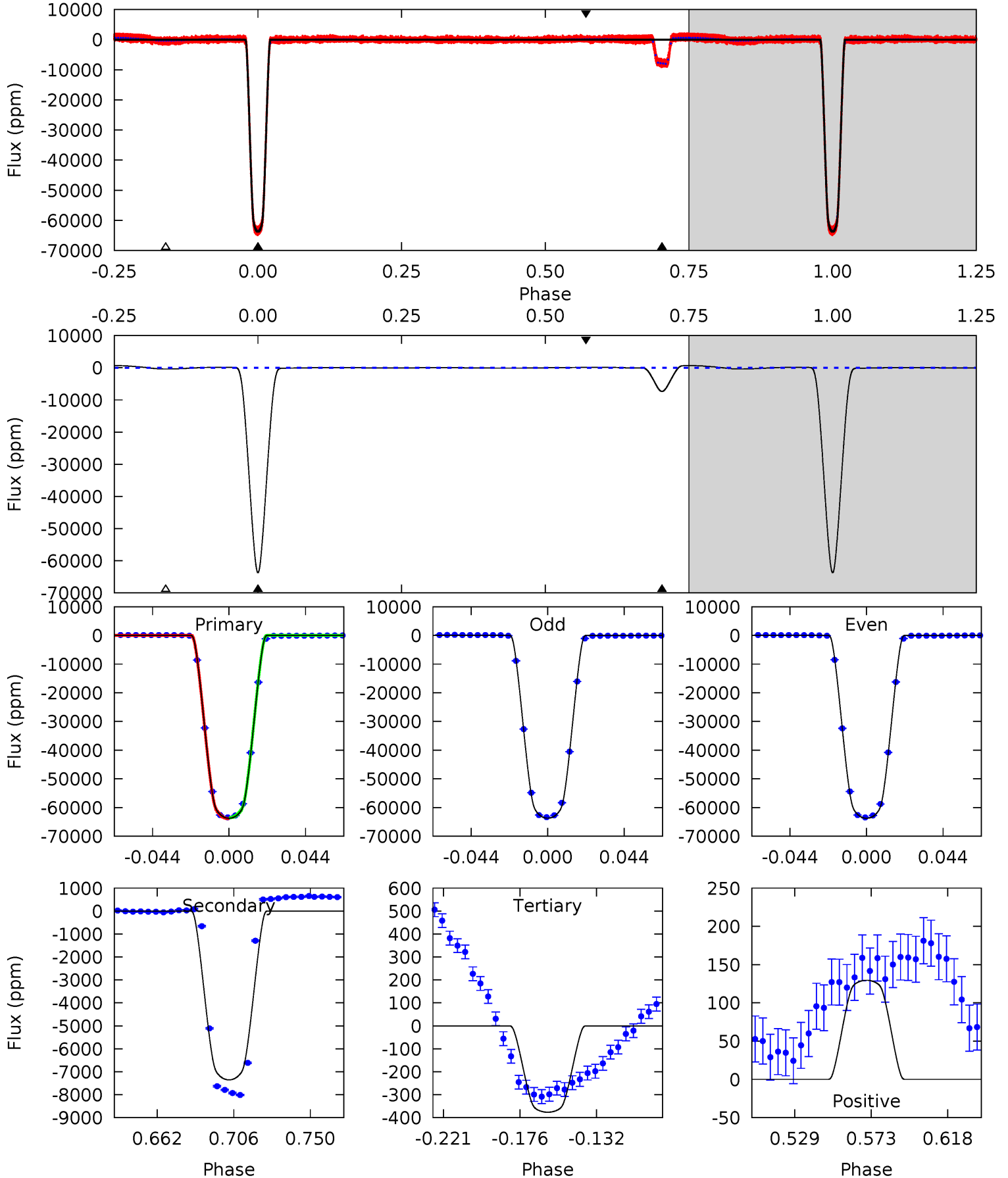
TCE 006806632-01 P= 9.469246 Days $T_0=140.971282$ (BKJD)



DV Model-Shift Uniqueness Test

006806632-01, P = 9.469190 Days, E = 131.506538 Days

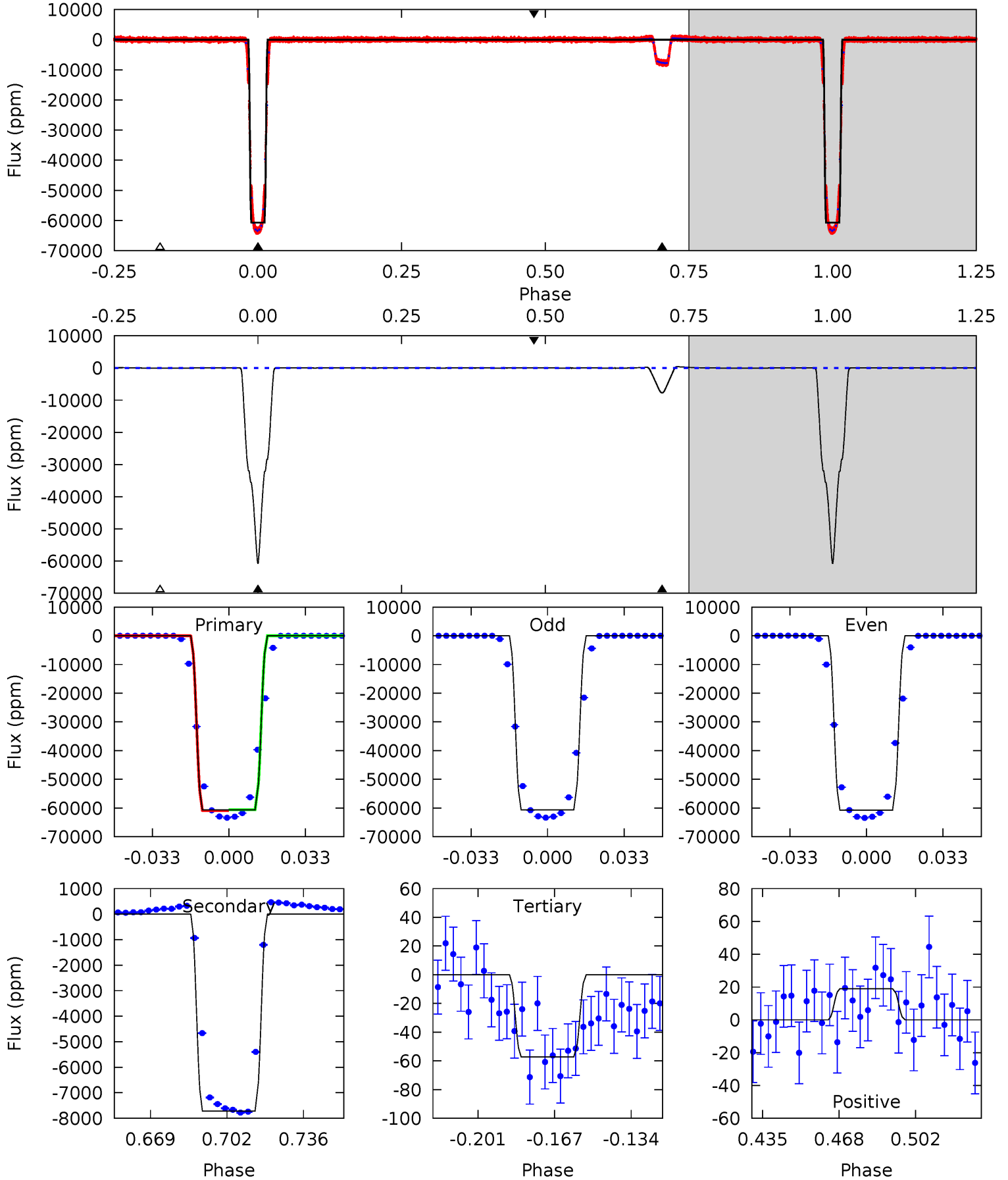
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9129	1053	53.9	18.5	4.73	2.01	24.4	9075	9111	999.4	1035	2.25	0.99	0.01	6.25



Alt Model-Shift Uniqueness Test

006806632-01, P = 9.469246 Days, E = 131.502036 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9599	1221	9.05	3.01	4.79	2.13	6.88	9590	9596	1212	1218	8.27	1.00	0.01	4.43



Stellar Parameters For KIC 006806632

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9454^{+301}_{-414}	$4.244^{+0.108}_{-0.234}$	$0.070^{+0.200}_{-0.700}$	$1.832^{+0.809}_{-0.405}$	$2.144^{+0.424}_{-0.471}$	$0.491^{+0.306}_{-0.289}$
	+3%/-4%	+3%/-6%	+286%/-1000%	+44%/-22%	+20%/-22%	+62%/-59%
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 006806632-01 / KOI 6772.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-7354 ± 7	$49.96^{+10.85}_{-6.02}$	2381^{+219}_{-161}	5260^{+102}_{-156}	20^{+4}_{-6}
Alt.	-7723 ± 6	$50.96^{+11.11}_{-6.36}$	2384^{+227}_{-167}	5290^{+103}_{-150}	21^{+5}_{-6}

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

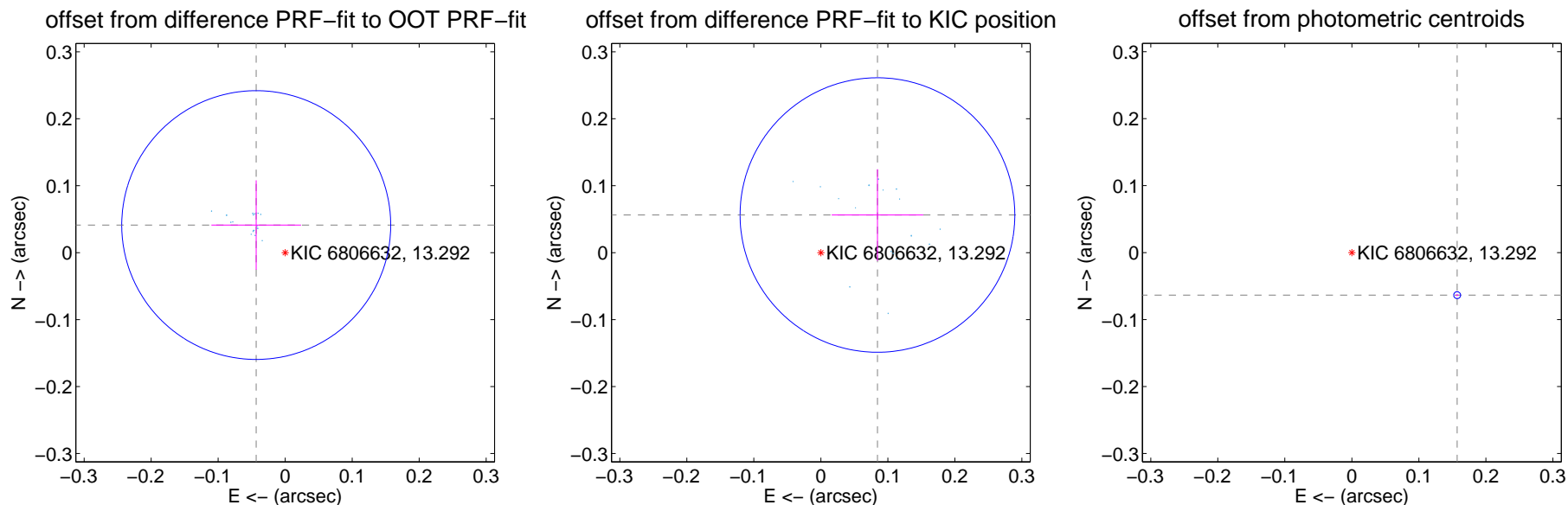
DV Centroid Data

Supplemental centroid analysis for 006806632-01. Kepler magnitude: 13.29. Transit SNR 4187.38

There are 17 quarters with good PRF difference image offsets

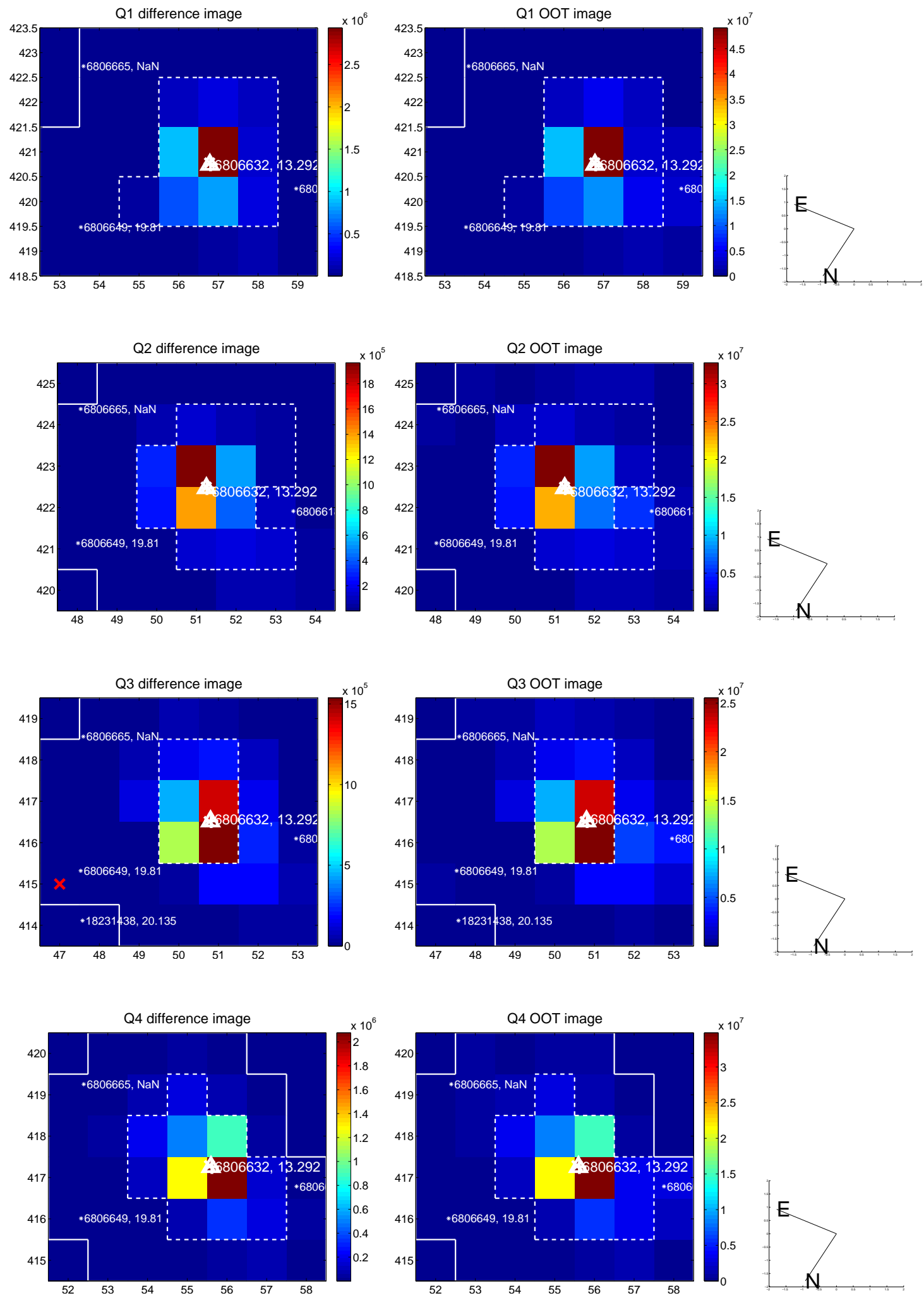
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.060 ± 0.067	0.89	0.043 ± 0.067	0.041 ± 0.067
PRF-fit source offset from KIC position	0.101 ± 0.068	1.48	-0.084 ± 0.068	0.056 ± 0.068
photometric centroid source offset	0.17 ± 0.00	98.53	-0.16 ± 0.00	-0.06 ± 0.00

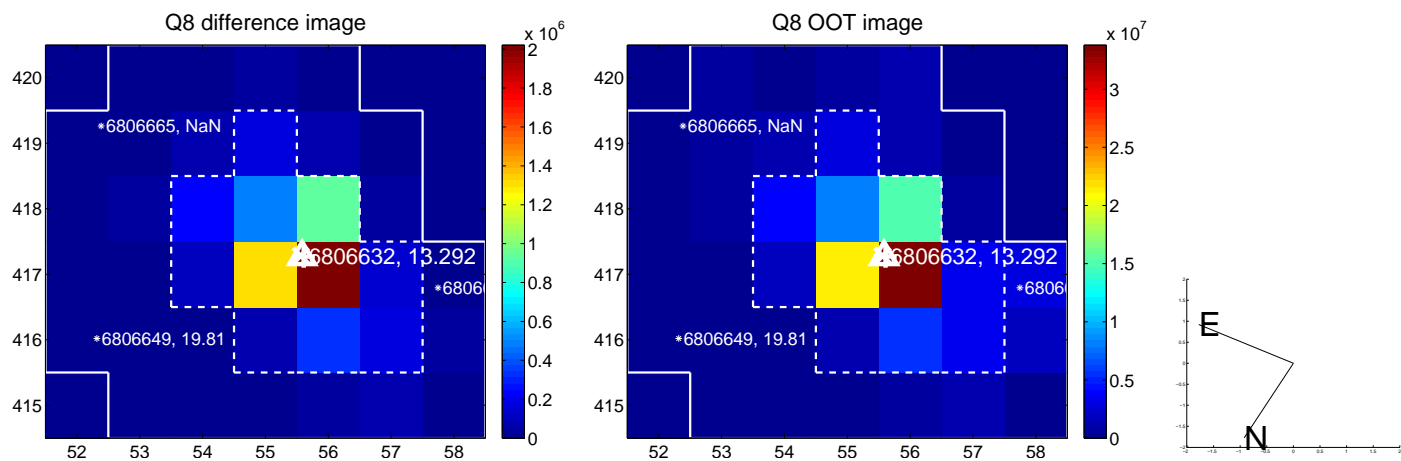
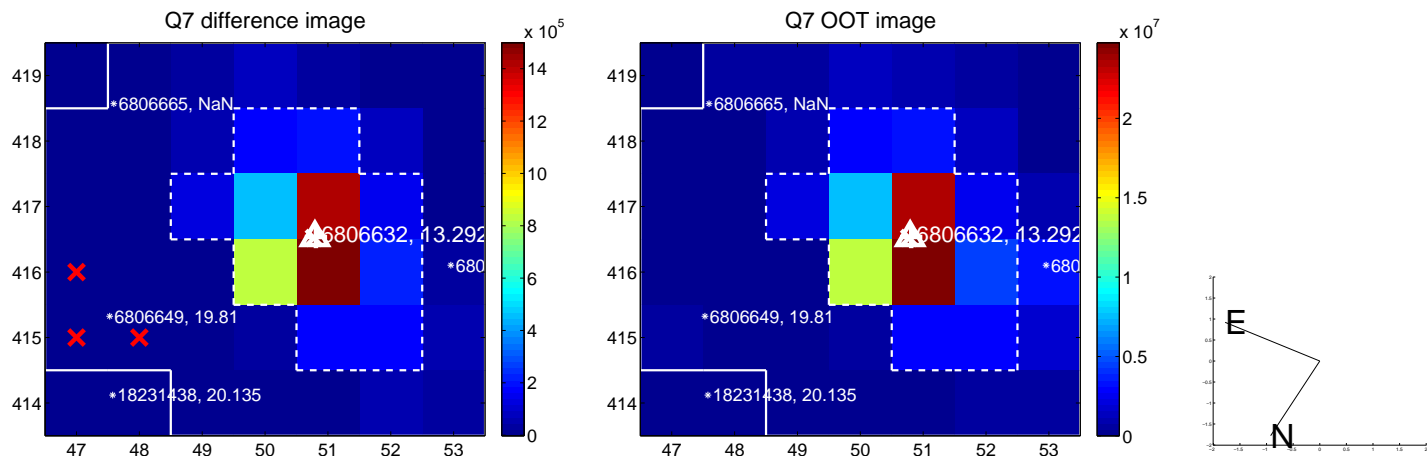
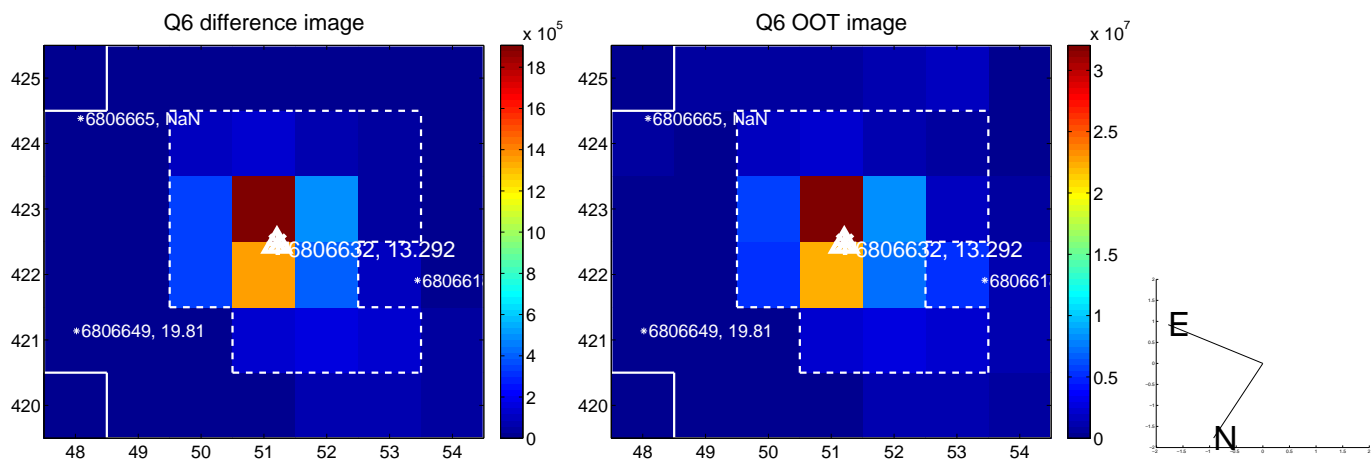
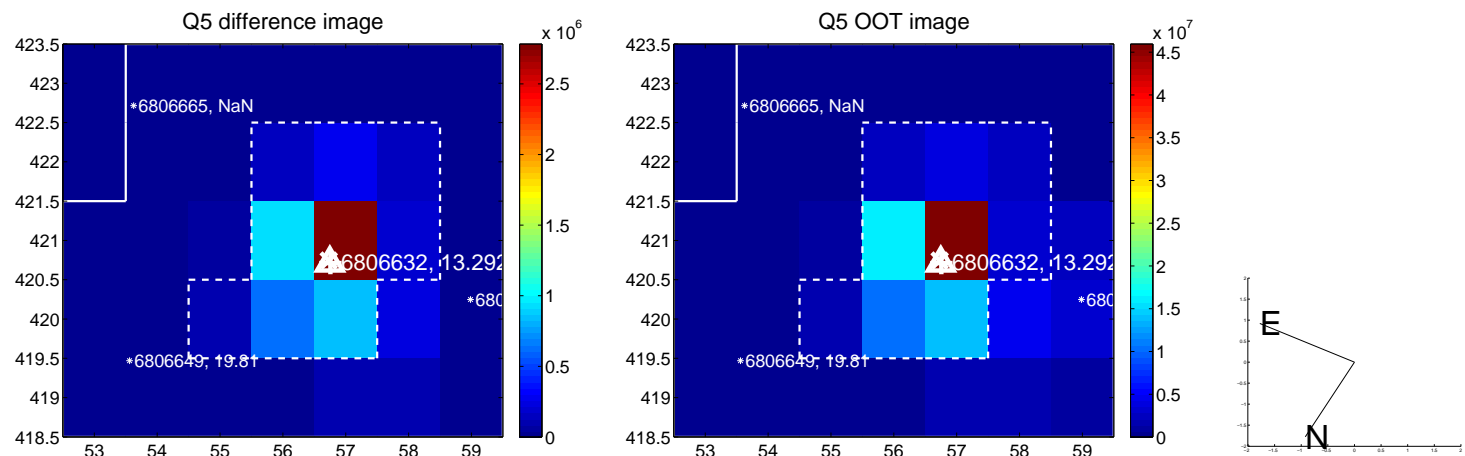


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

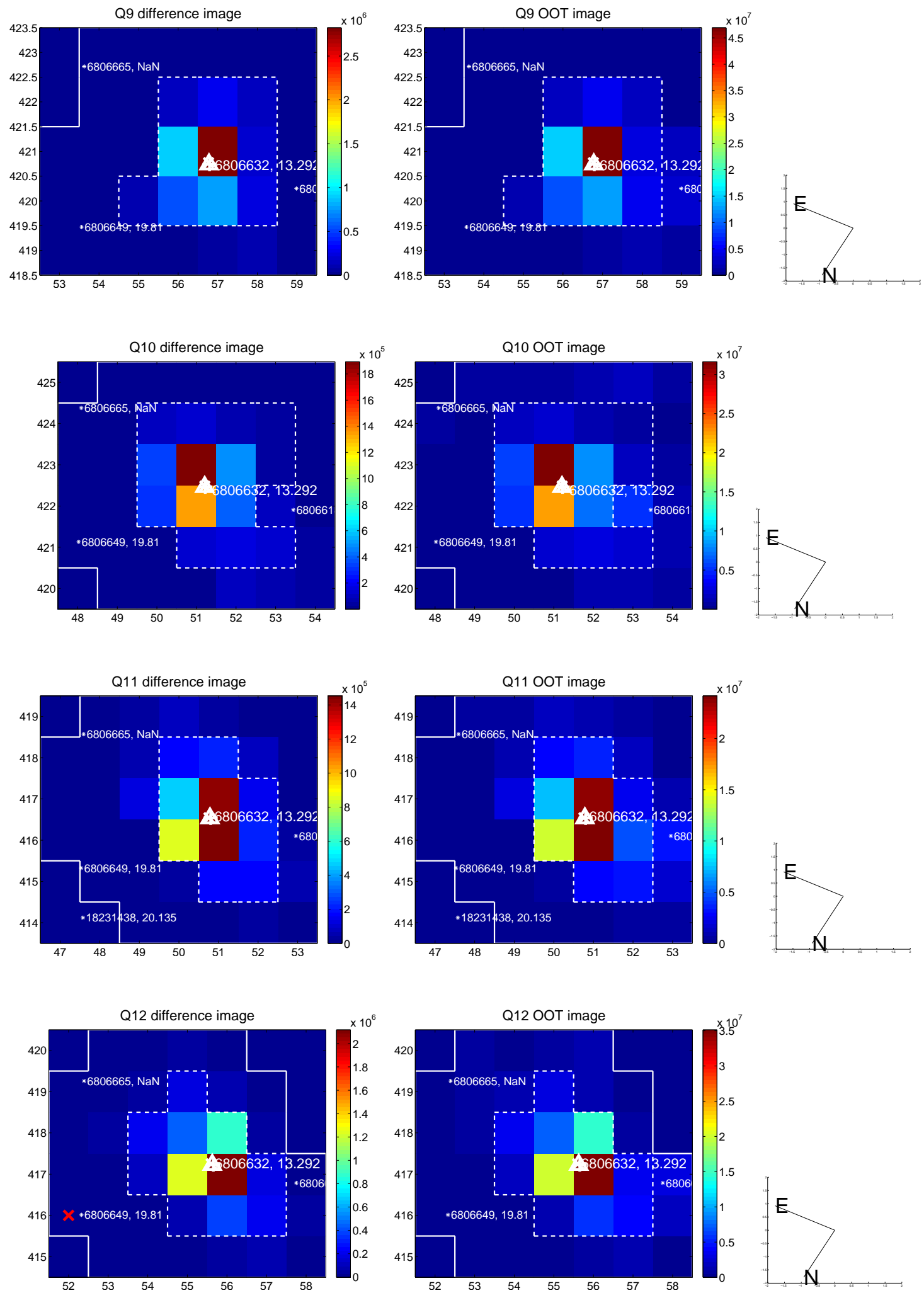
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



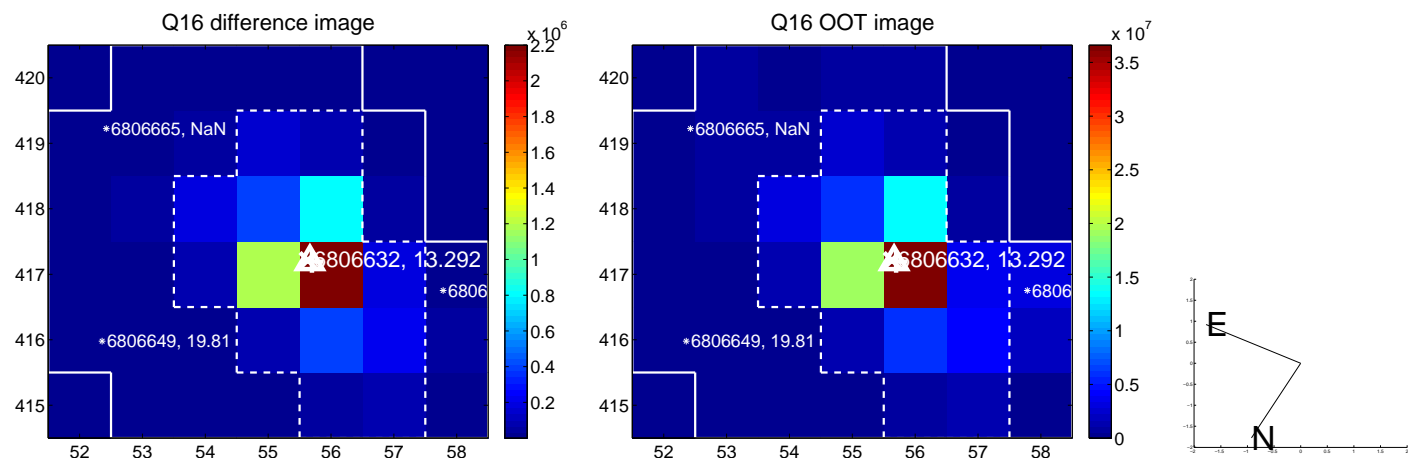
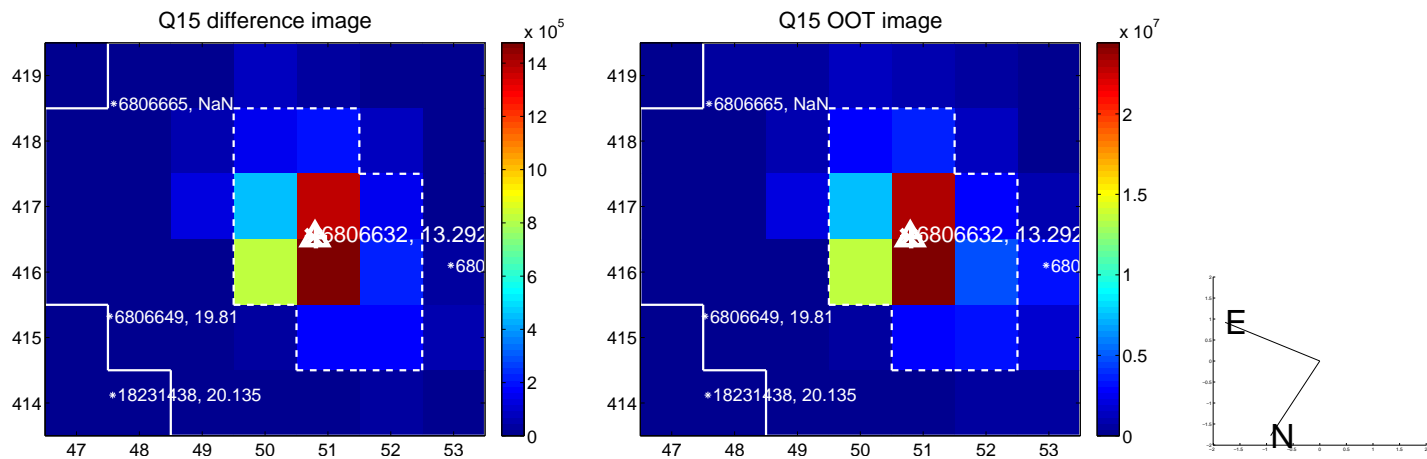
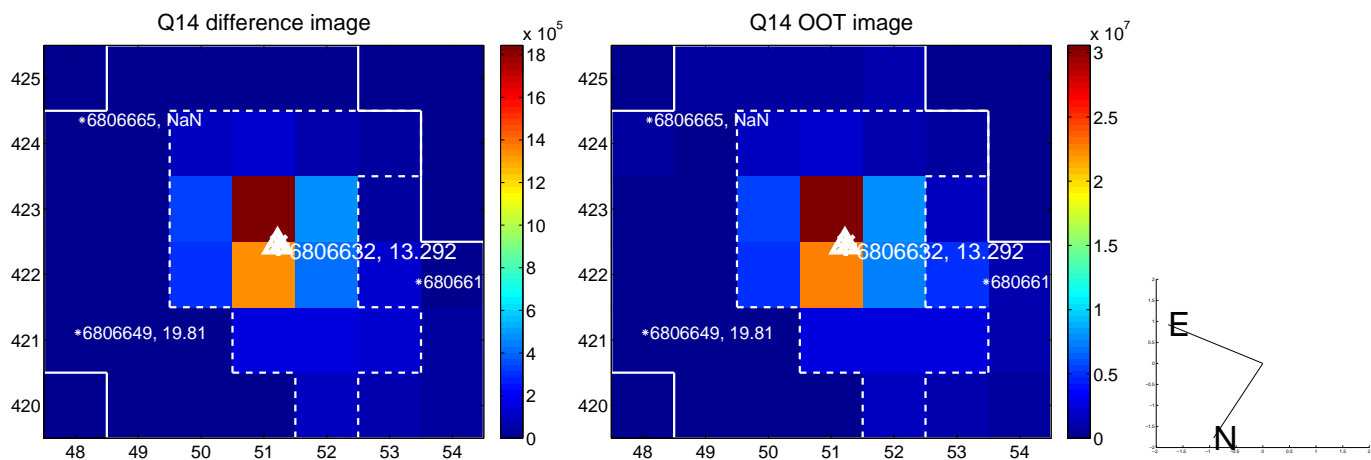
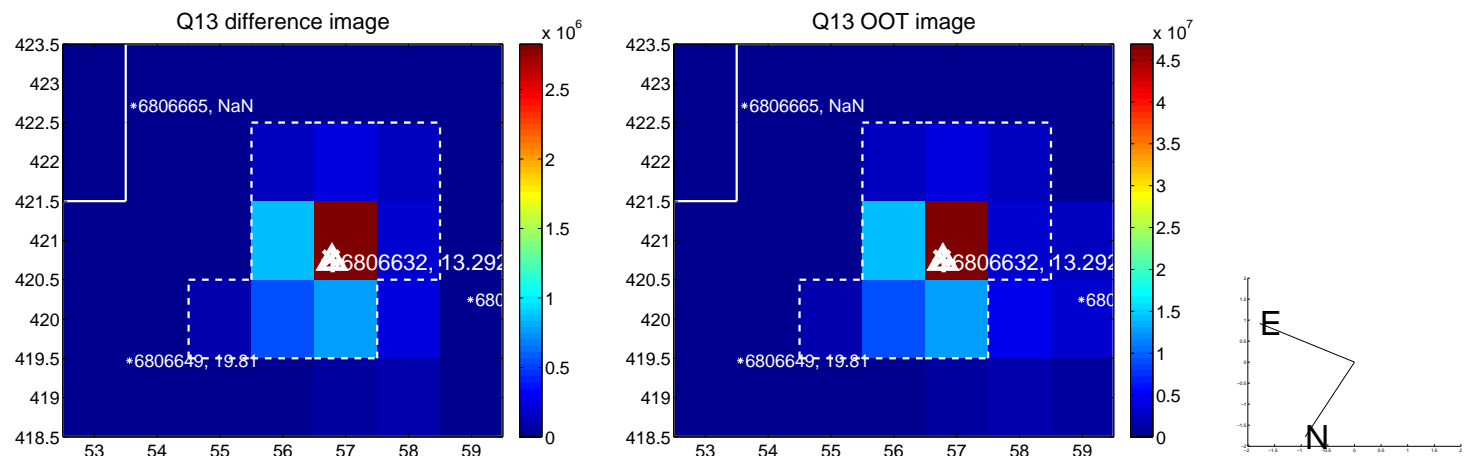
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



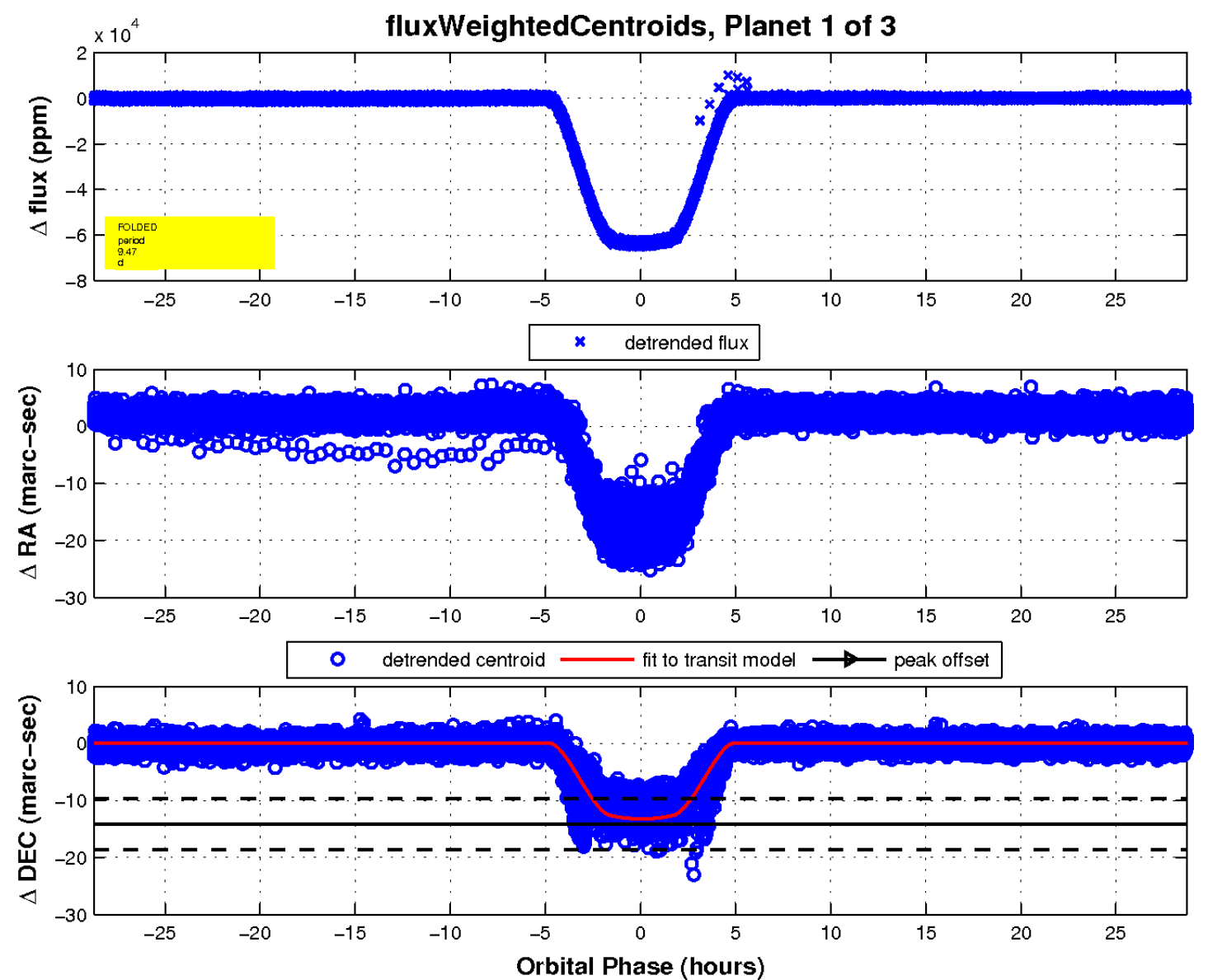
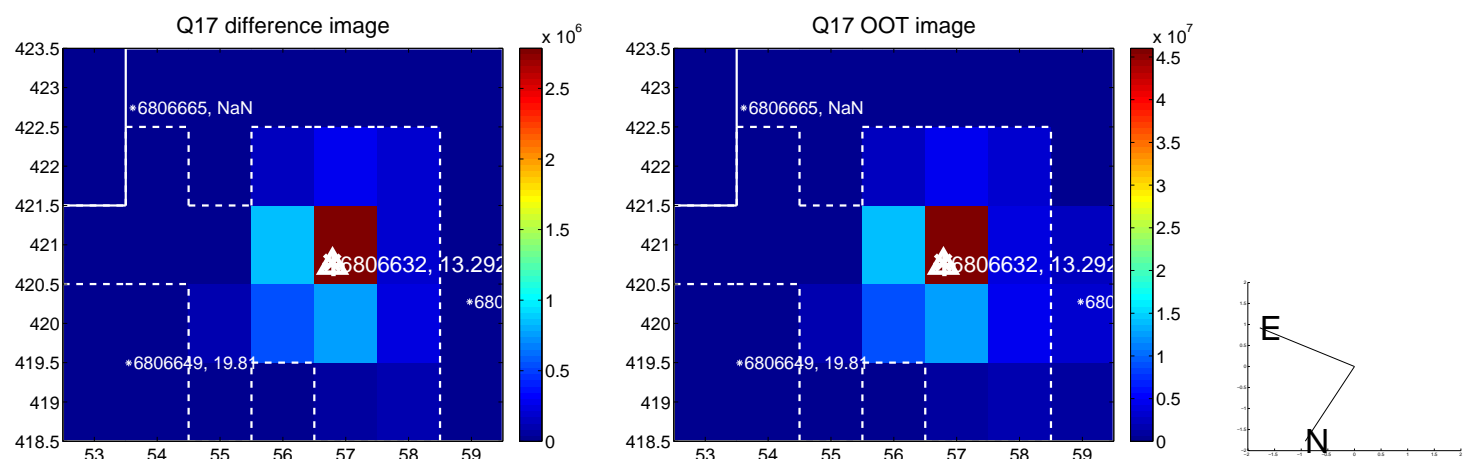
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white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

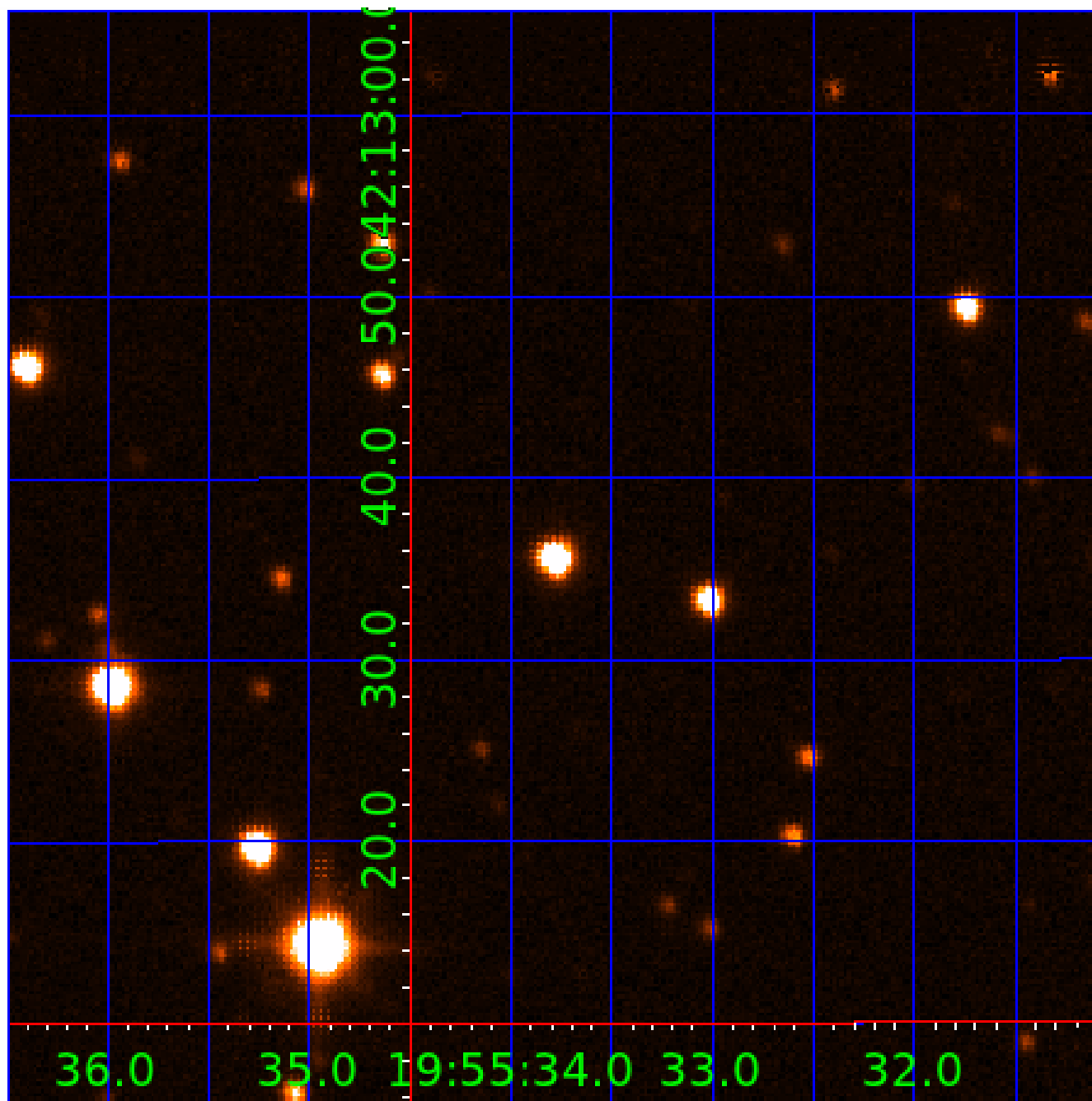


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006806632

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})
006806632-01	OBS	6772.01	9.469190	140.975728	63627.3	9.579	4749.9	4187.4	1.83	9454	49.36	1880.28
006806632-02	OBS	No	9.469206	138.166859	8328.9	7.478	723.1	681.0	1.83	9454	18.35	1880.28
006806632-03	OBS	No	9.469378	139.401975	341.1	31.956	9.9	15.6	1.83	9454	6.21	1880.23

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006806632-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006806632-02	OBS	FP	0.00	1	0	0	0	SAME_NTL_PERIOD
006806632-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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 006806632-02

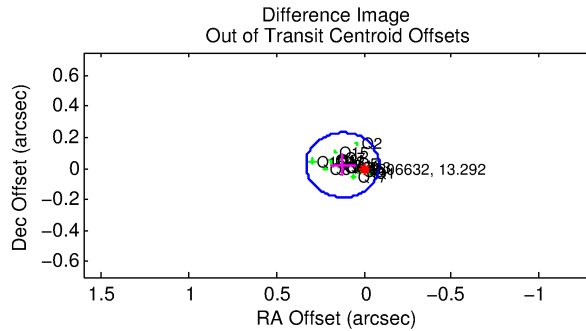
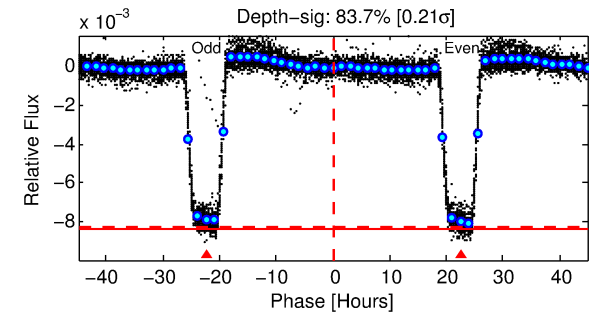
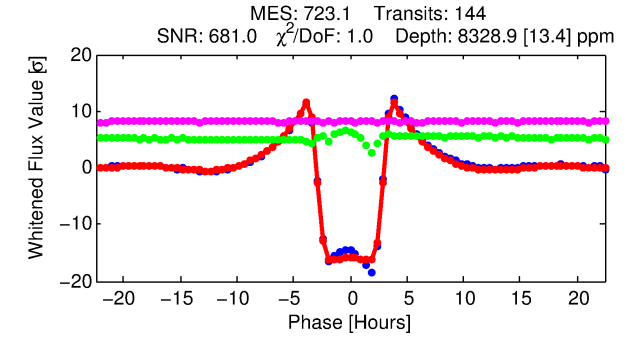
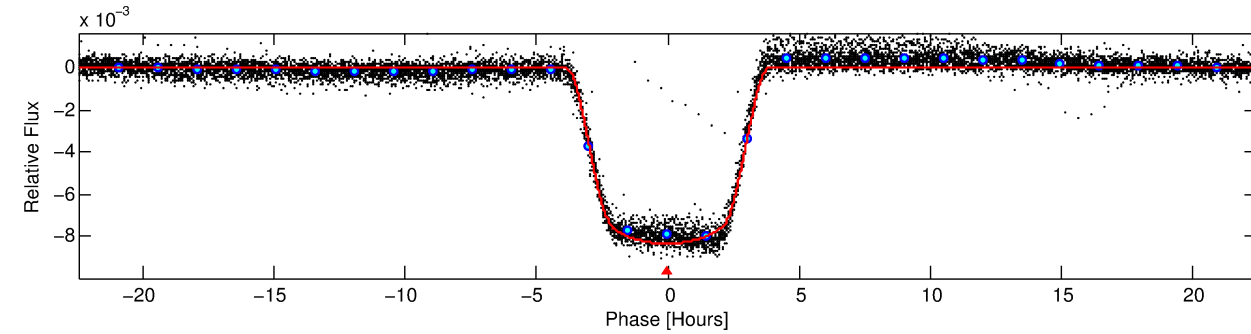
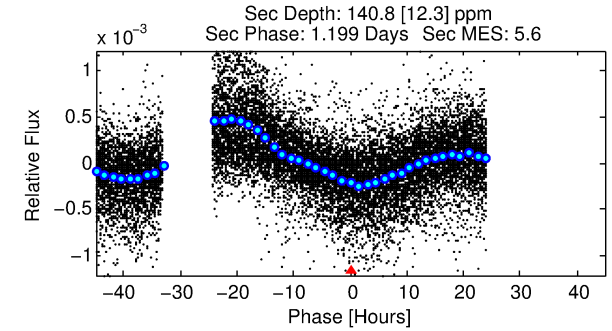
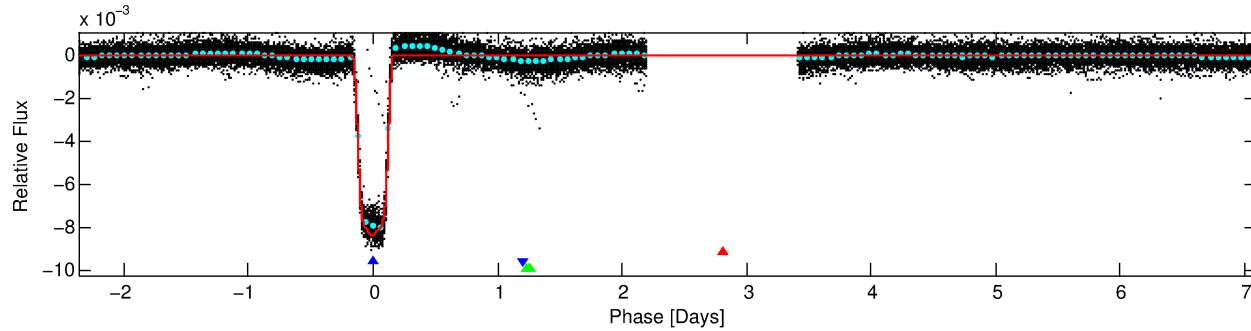
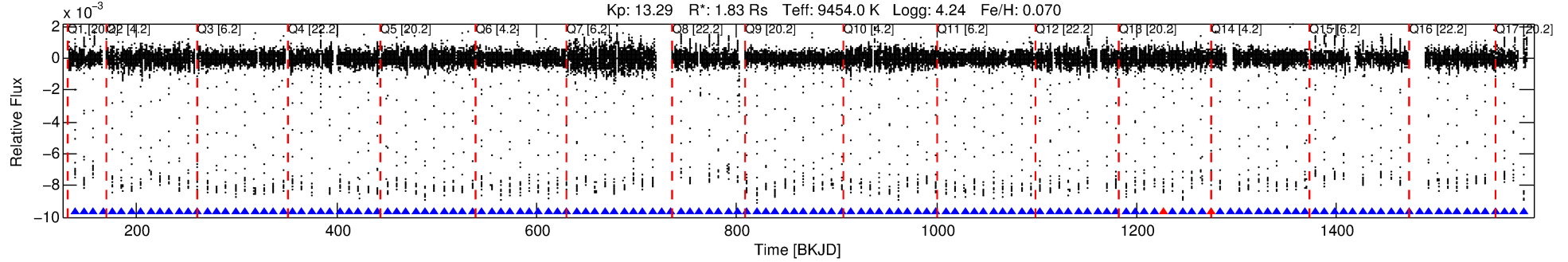
No Significant Match Found

DV One-Page Summary

KIC: 6806632 Candidate: 2 of 3 Period: 9.469 d

KOI: K06772 Corr: No Ephemeris Match

Kp: 13.29 R*: 1.83 Rs Teff: 9454.0 K Logg: 4.24 Fe/H: 0.070



DV Fit Results:

Period = 9.46921 [0.00000] d
Epoch = 138.1669 [0.0001] BKJD
Rp/R* = 0.0918 [0.0001]
a/R* = 7.41 [0.02]
b = 0.78 [0.00]
Seff = 1880.28 [933.30]
Teq = 1679 [208] K
Rp = 18.35 [8.10] Re
a = 0.1130 [0.0390] AU
Ag = 2.94 [1.39] [1.40σ]
Teffp = 3399 [166] K [6.45σ]

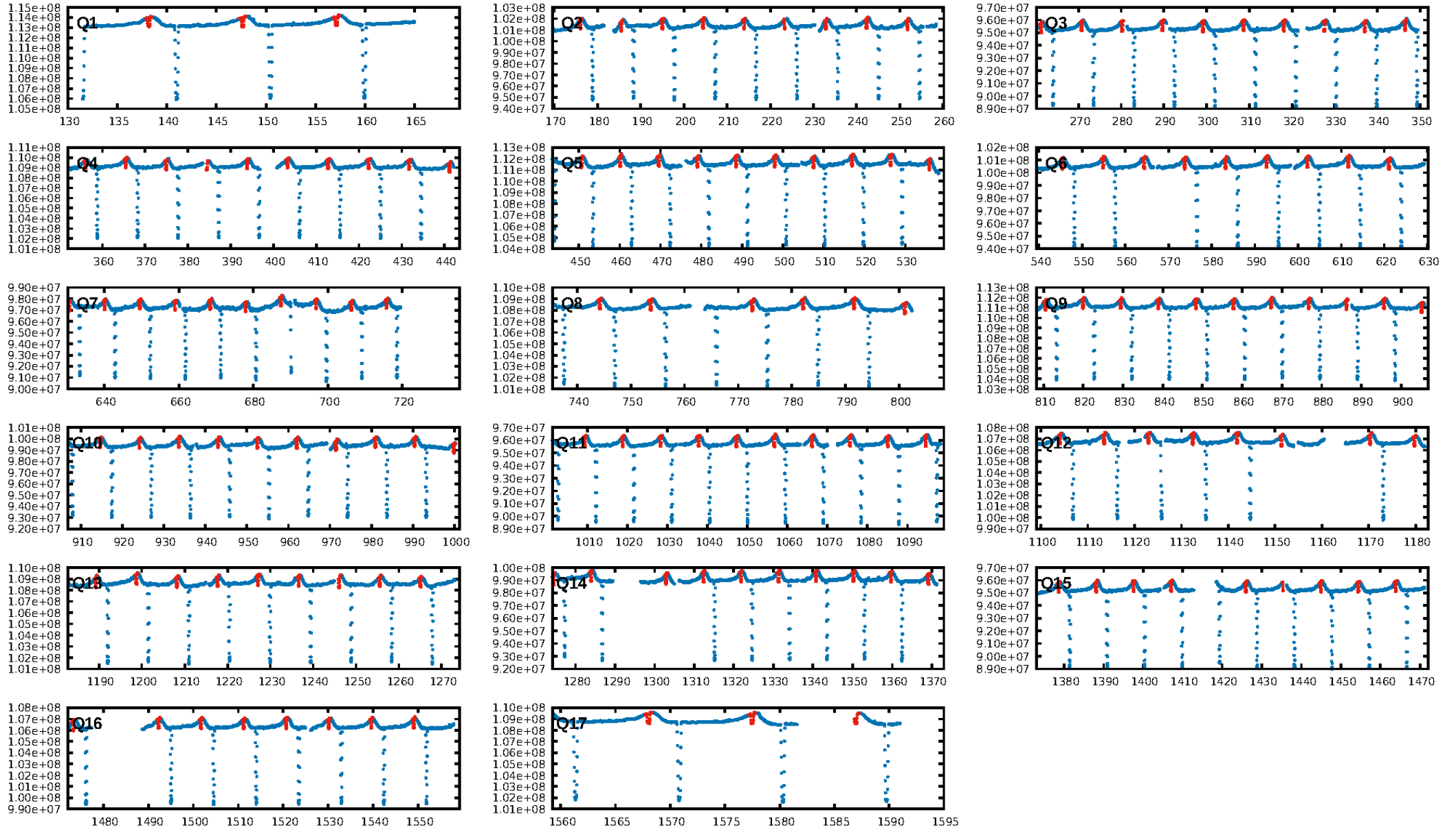
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 89.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.99 [136/138]
GhostDiagnostic-chr: 3.048
Centroid-sig: N/A
Centroid-so: 0.189 arcsec [16.05σ]
OotOffset-rm: 0.124 arcsec [1.78σ]
KicOffset-rm: 0.040 arcsec [0.58σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.06 [1/17]

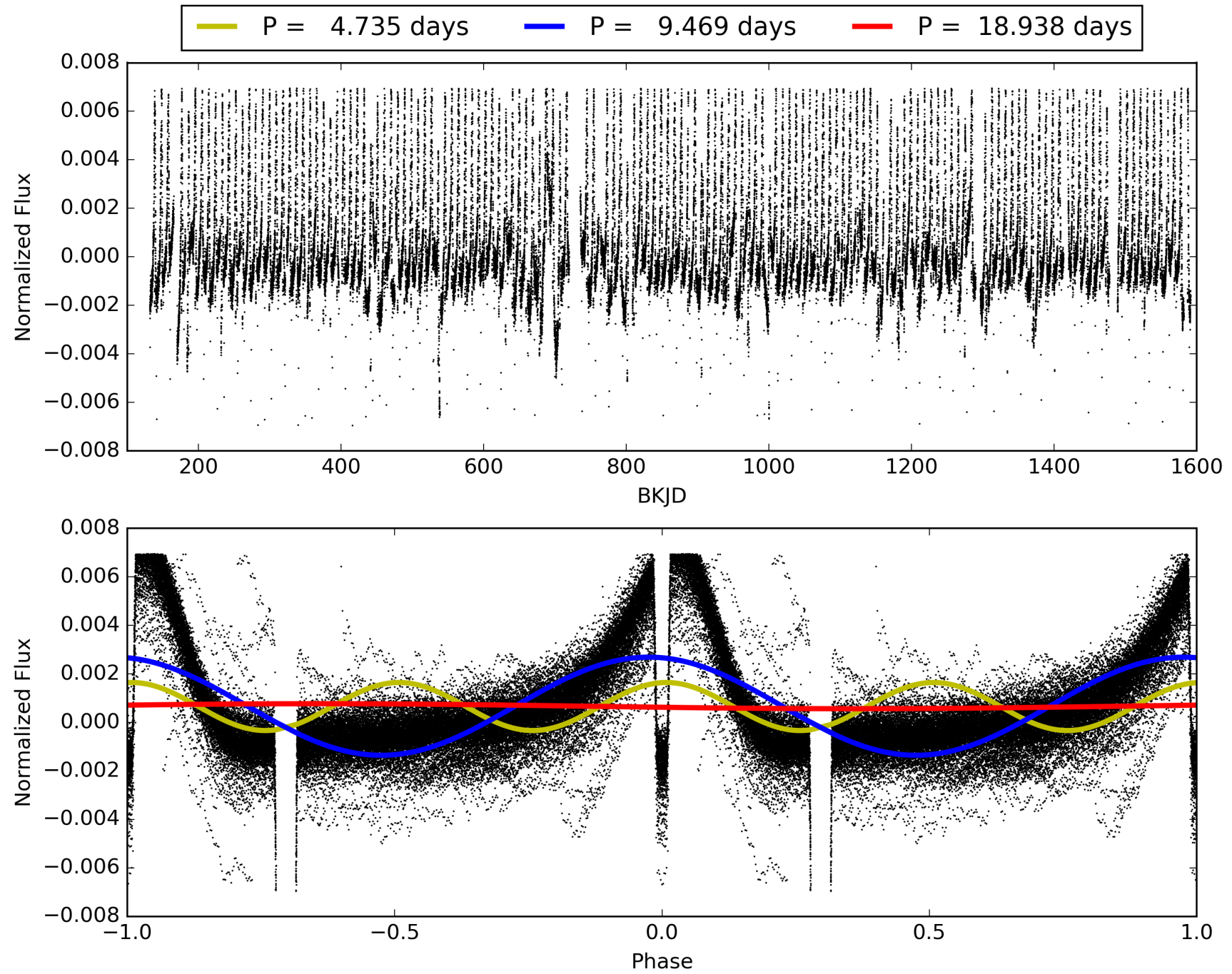
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:08:54 Z

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

TCE 006806632-02, PDC Light Curves

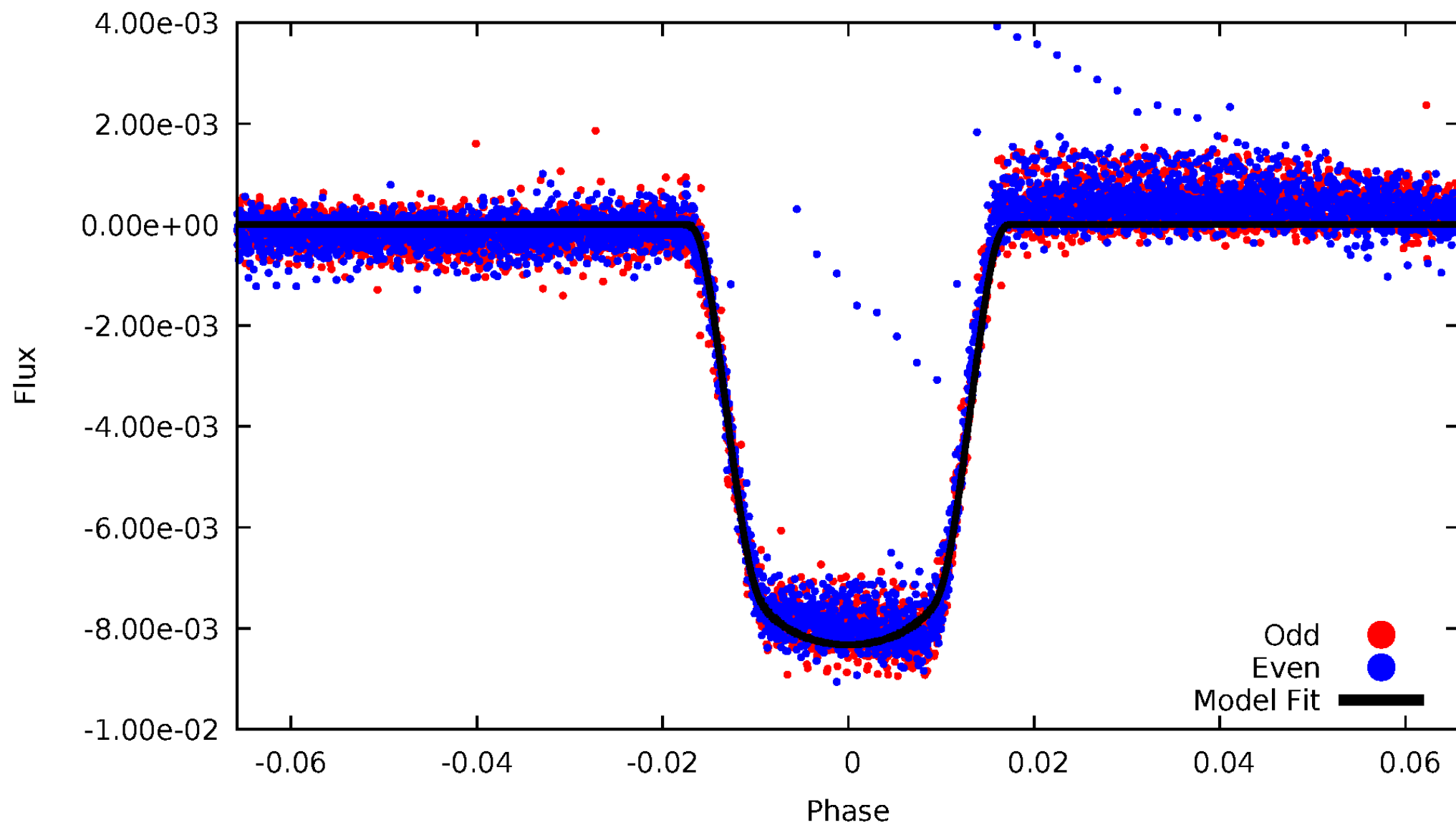


TCE 006806632-02



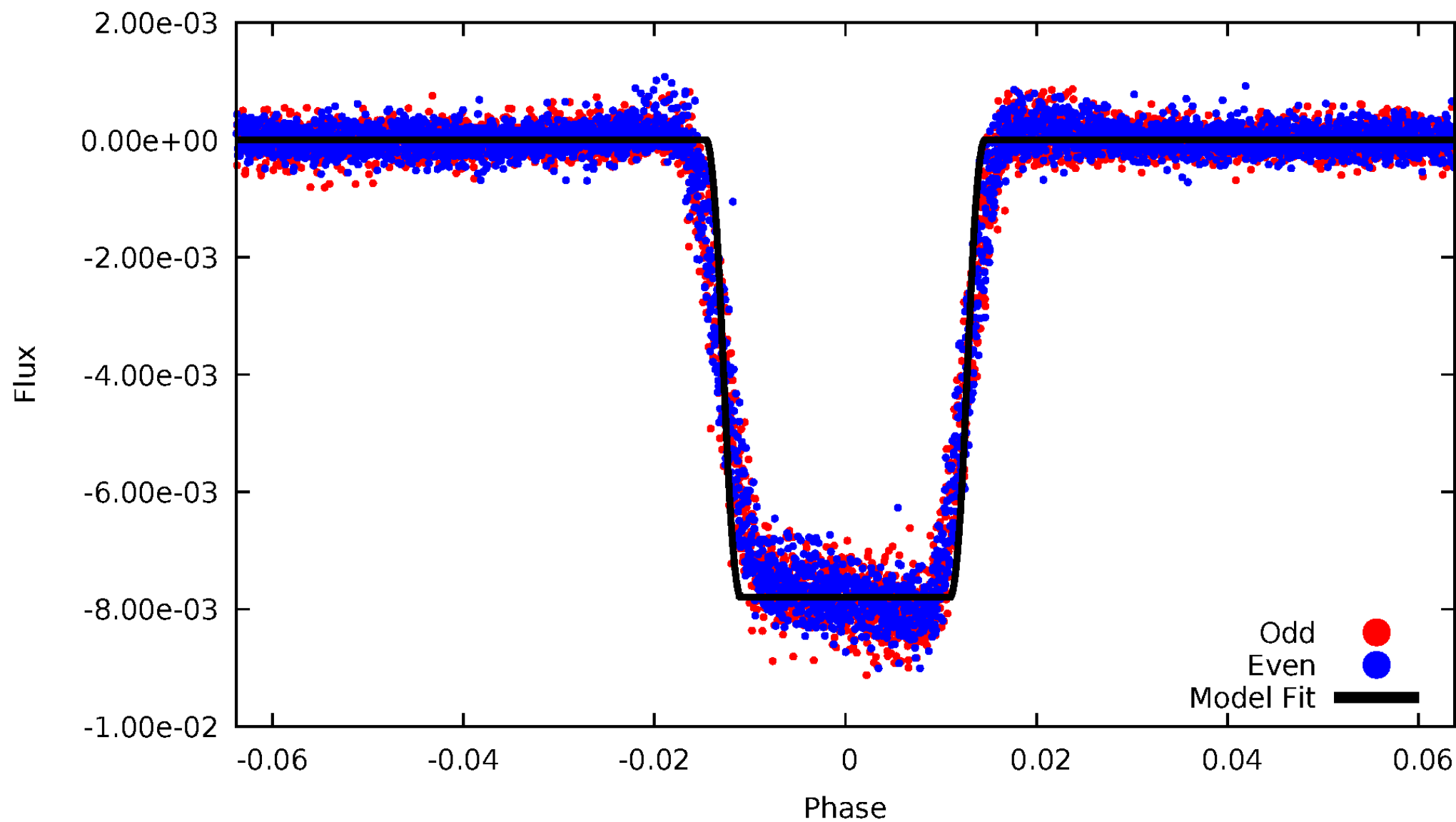
DV Odd/Even

TCE 006806632-02



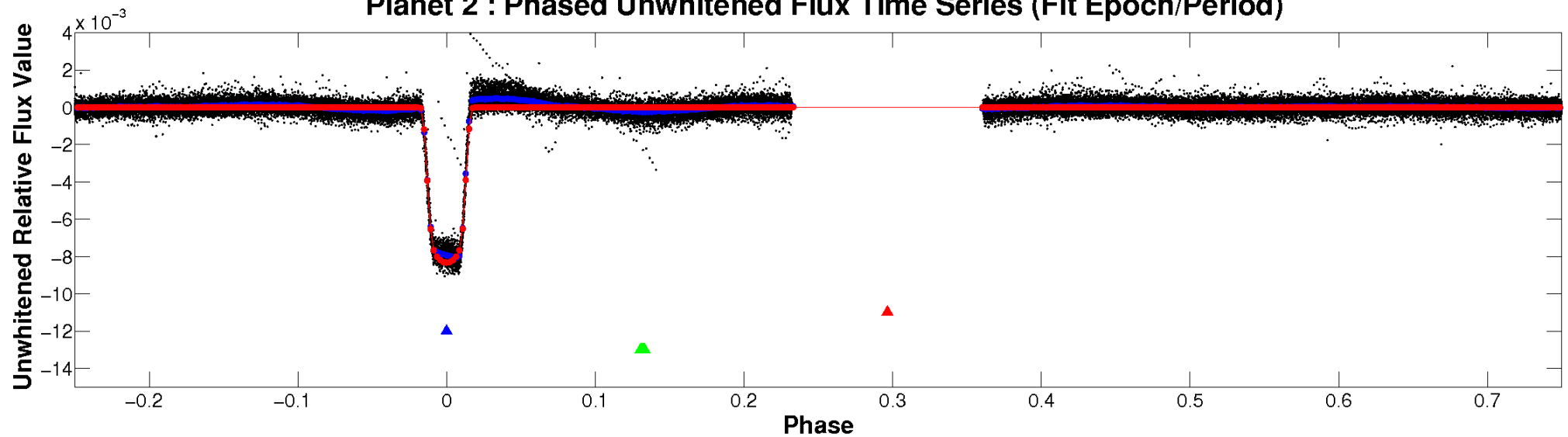
ALT Odd/Even

TCE 006806632-02

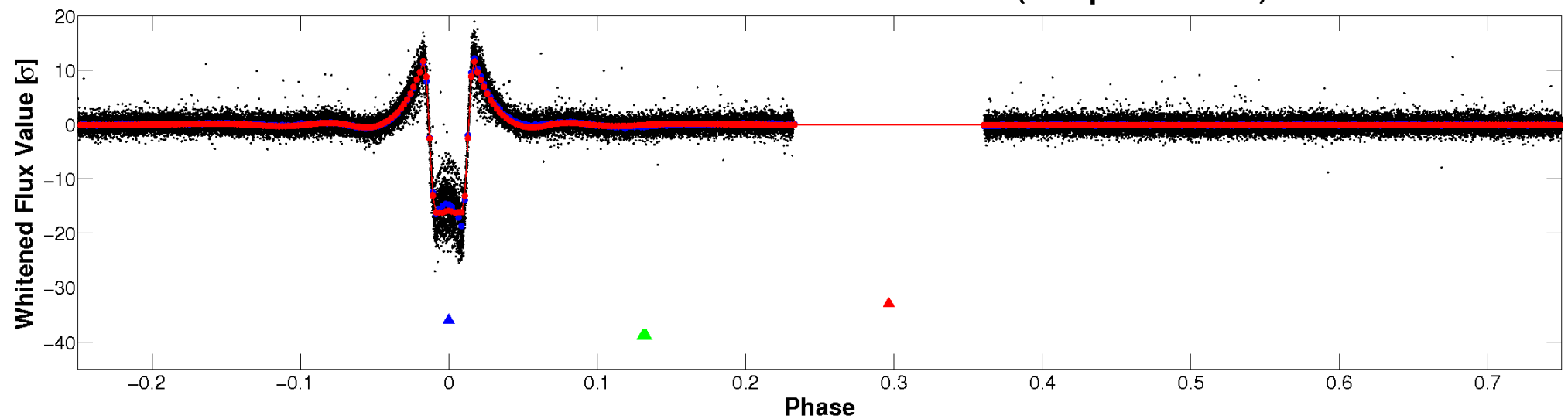


Non-Whitened Vs. Whitened Light Curve

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

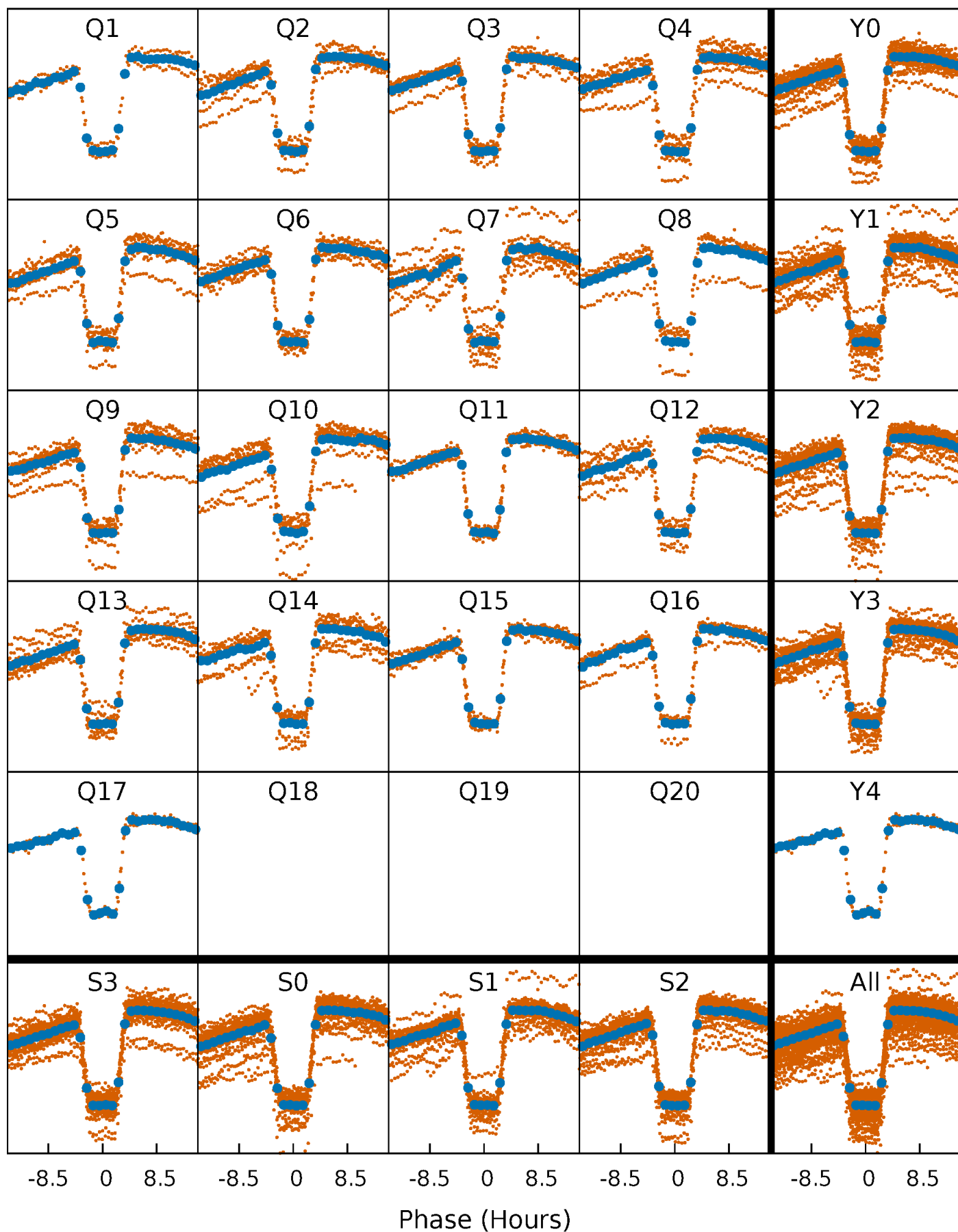


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



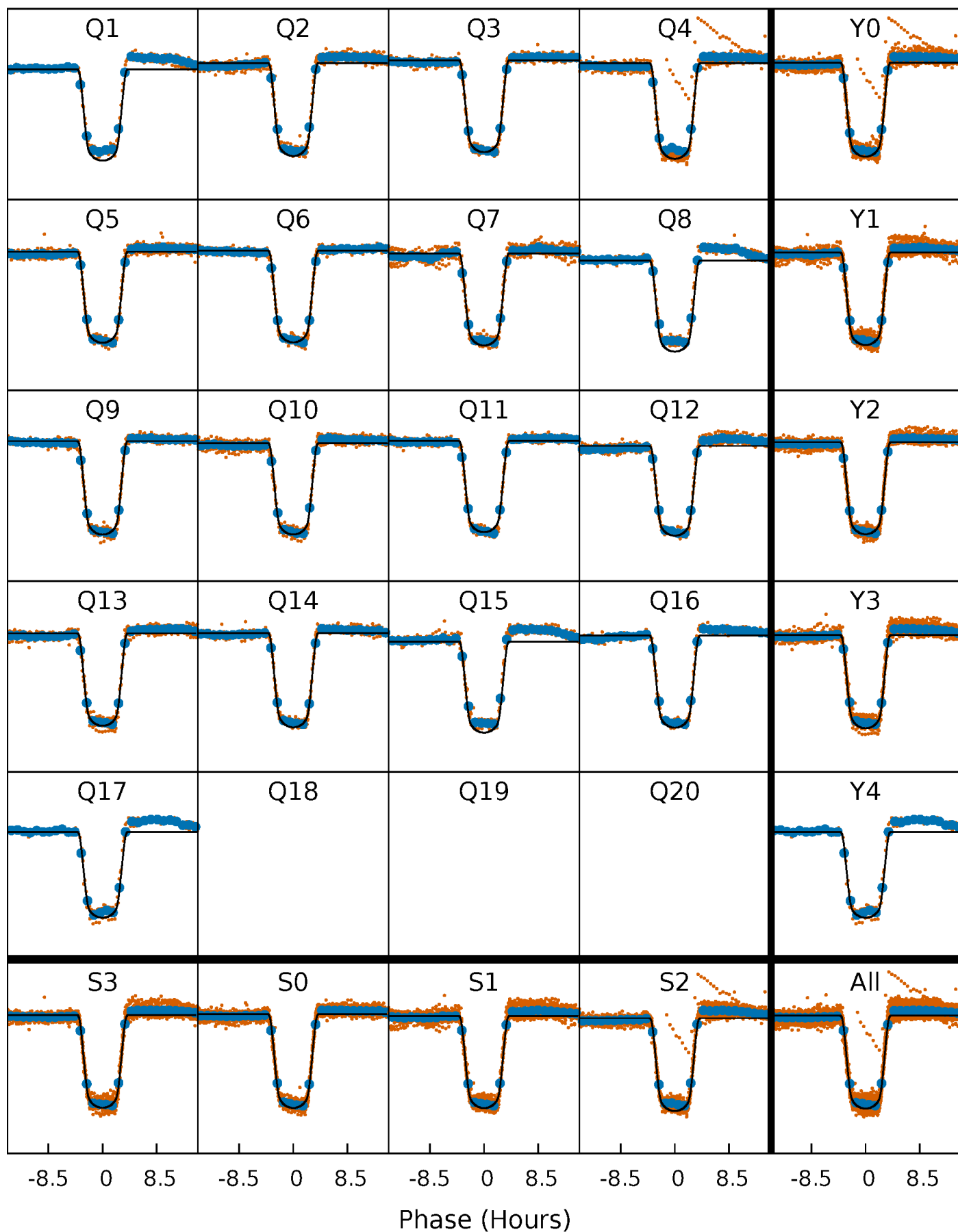
PDC Quarter-Phased Transit Curves

TCE 006806632-02 P= 9.469206 Days $T_0=138.166859$ (BKJD)



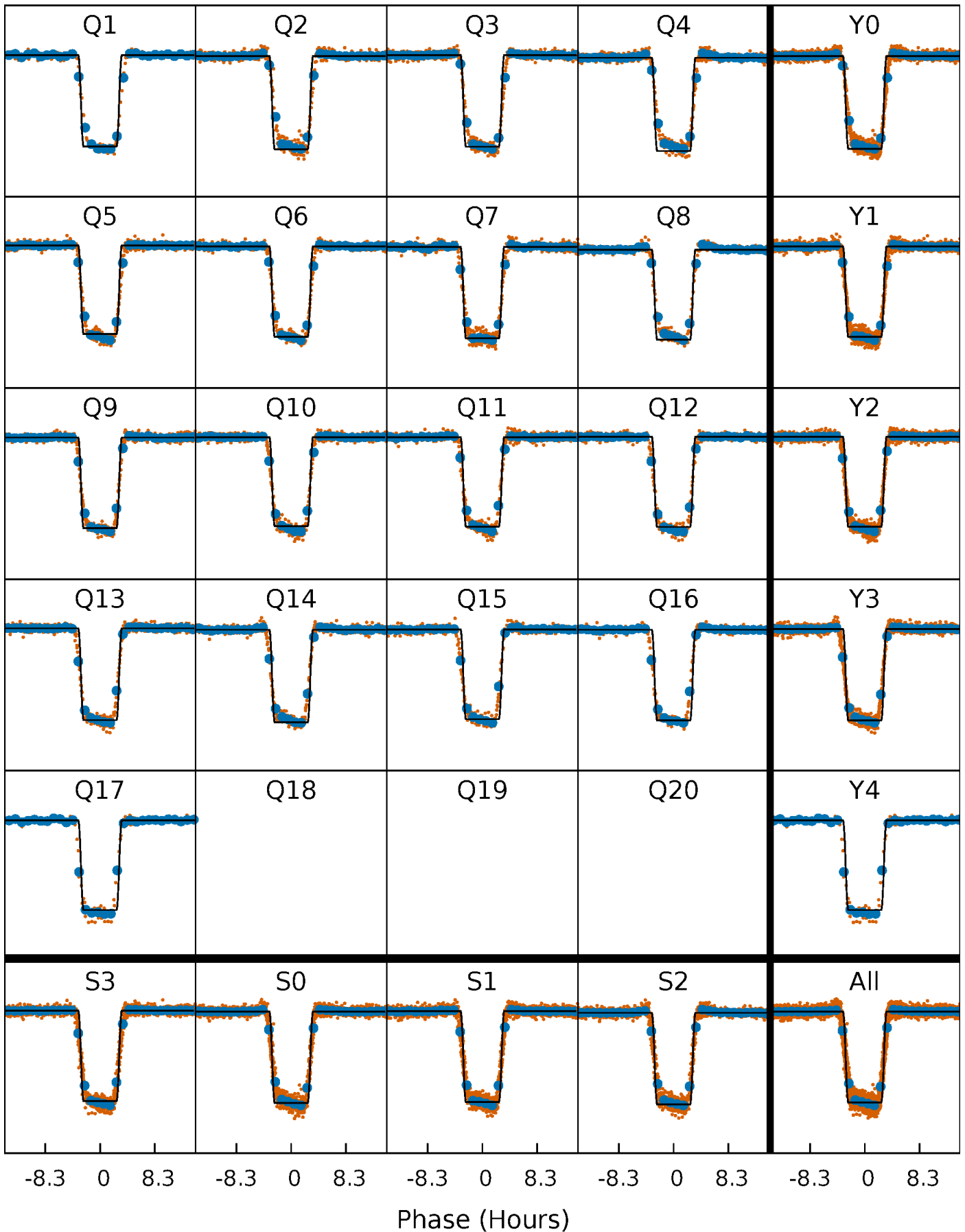
DV Quarter-Phased Transit Curves

TCE 006806632-02 P= 9.469206 Days $T_0=138.166859$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

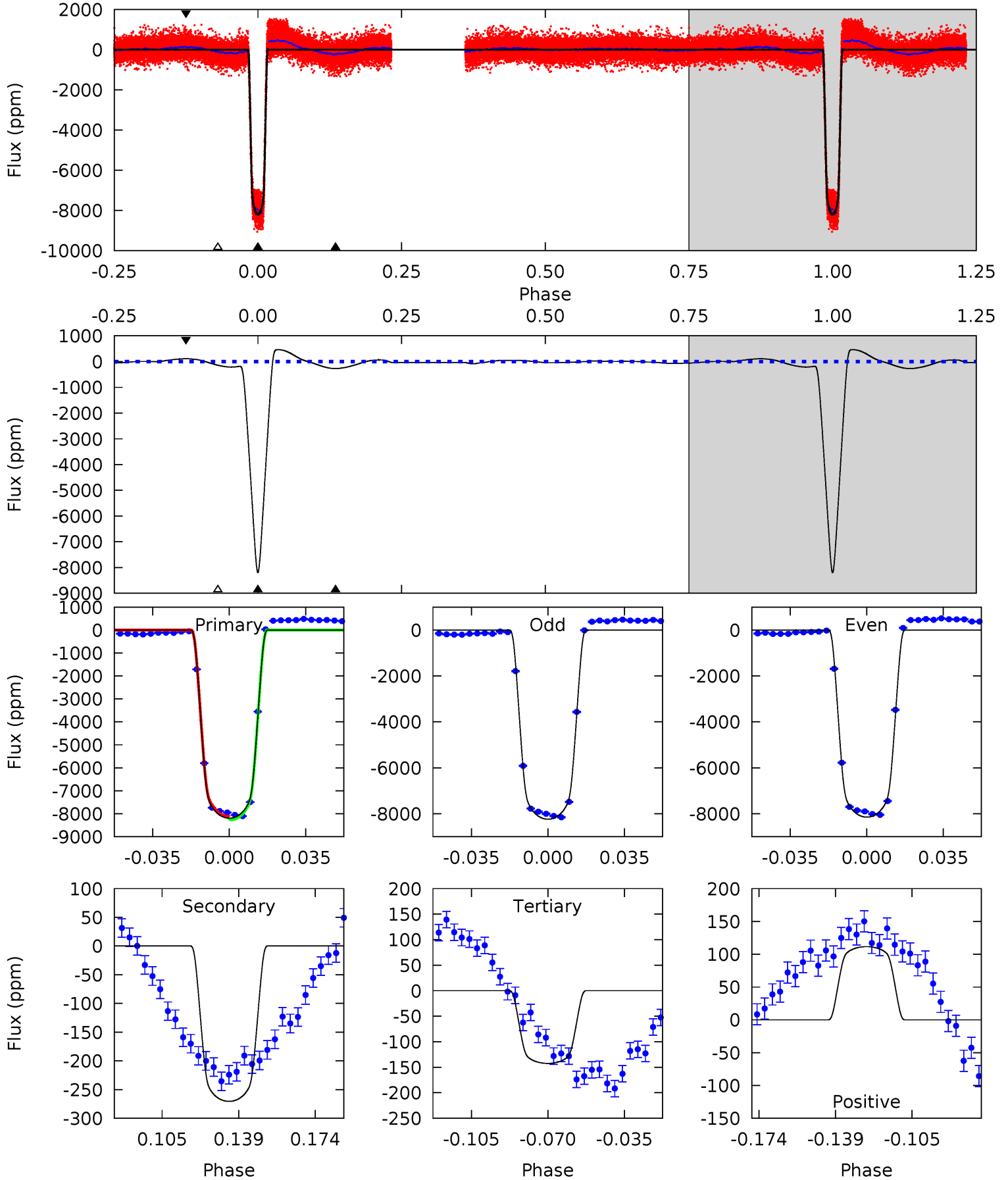
TCE 006806632-02 $P = 9.469334$ Days $T_0 = 138.157630$ (BKJD)



DV Model-Shift Uniqueness Test

006806632-02, P = 9.469206 Days, E = 128.697653 Days

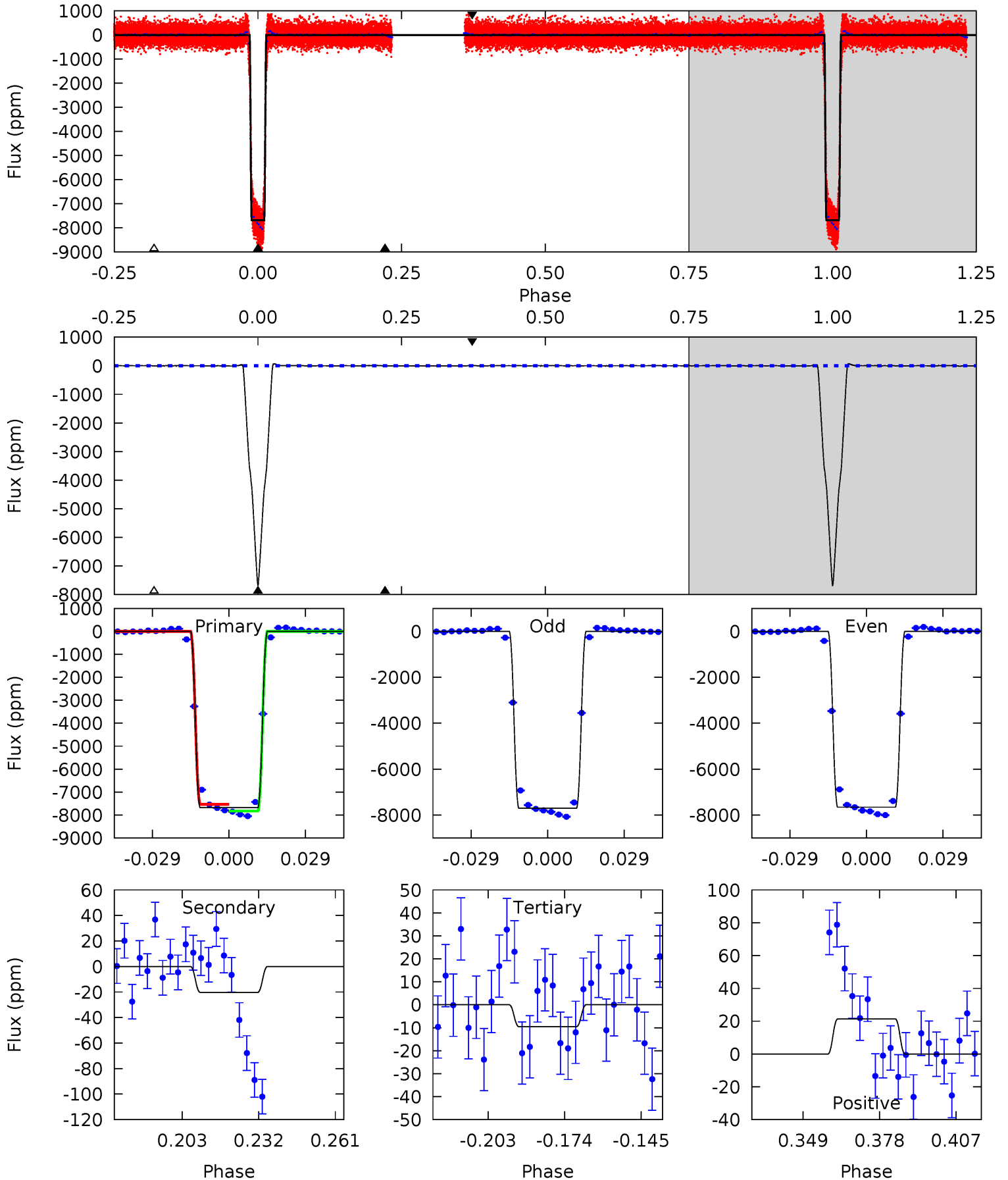
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1320	43.6	23.0	18.0	4.78	2.11	16.3	1297	1302	20.6	25.6	7.35	0.99	0.05	10.9



Alt Model-Shift Uniqueness Test

006806632-02, P = 9.469334 Days, E = 128.688296 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1510	3.99	1.88	4.20	4.82	2.18	1.09	1508	1506	2.11	-0.22	4.54	1.00	0.01	28.5



Stellar Parameters For KIC 006806632

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9454^{+301}_{-414}	$4.244^{+0.108}_{-0.234}$	$0.070^{+0.200}_{-0.700}$	$1.832^{+0.809}_{-0.405}$	$2.144^{+0.424}_{-0.471}$	$0.491^{+0.306}_{-0.289}$
	+3%/-4%	+3%/-6%	+286%/-1000%	+44%/-22%	+20%/-22%	+62%/-59%
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 006806632-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-271 ± 6	$18.73^{+4.37}_{-2.22}$	2384^{+233}_{-173}	4003^{+71}_{-92}	$5.277^{+1.280}_{-1.589}$
Alt.	-20 ± 5	$18.06^{+3.66}_{-2.39}$	2384^{+220}_{-167}	2350^{+211}_{-4462}	$0.420^{+0.162}_{-0.154}$

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

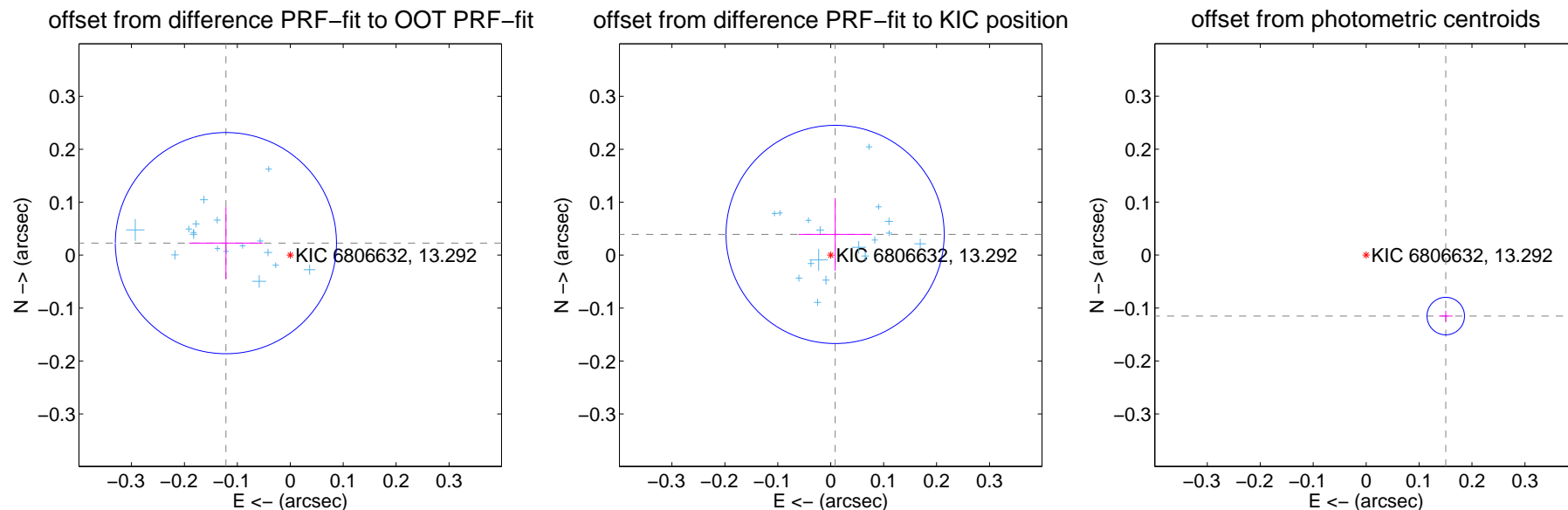
DV Centroid Data

Supplemental centroid analysis for 006806632-02. Kepler magnitude: 13.29. Transit SNR 681.01

There are 17 quarters with good PRF difference image offsets

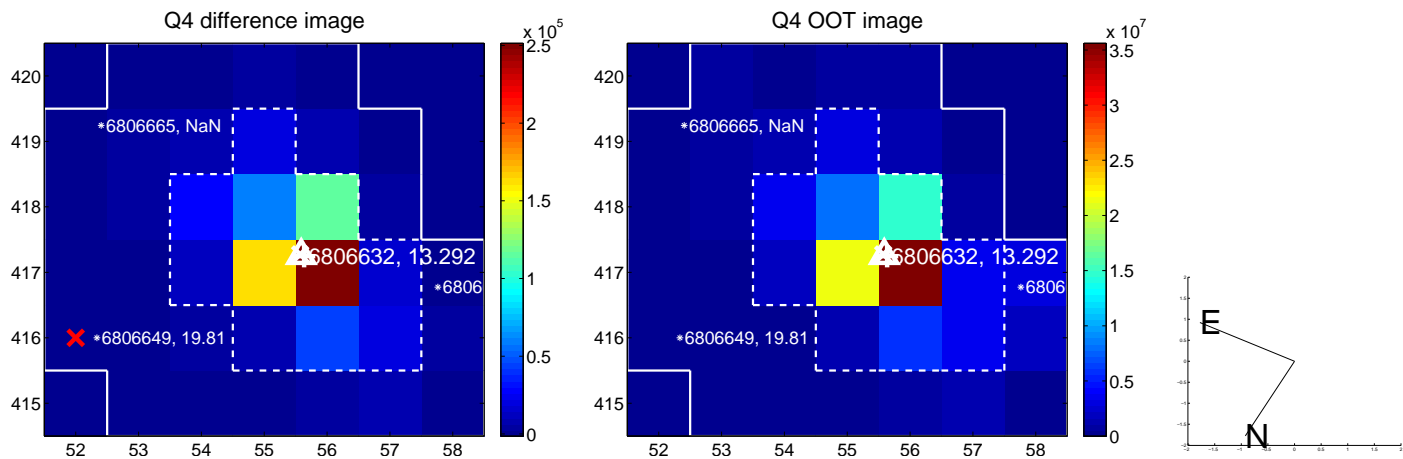
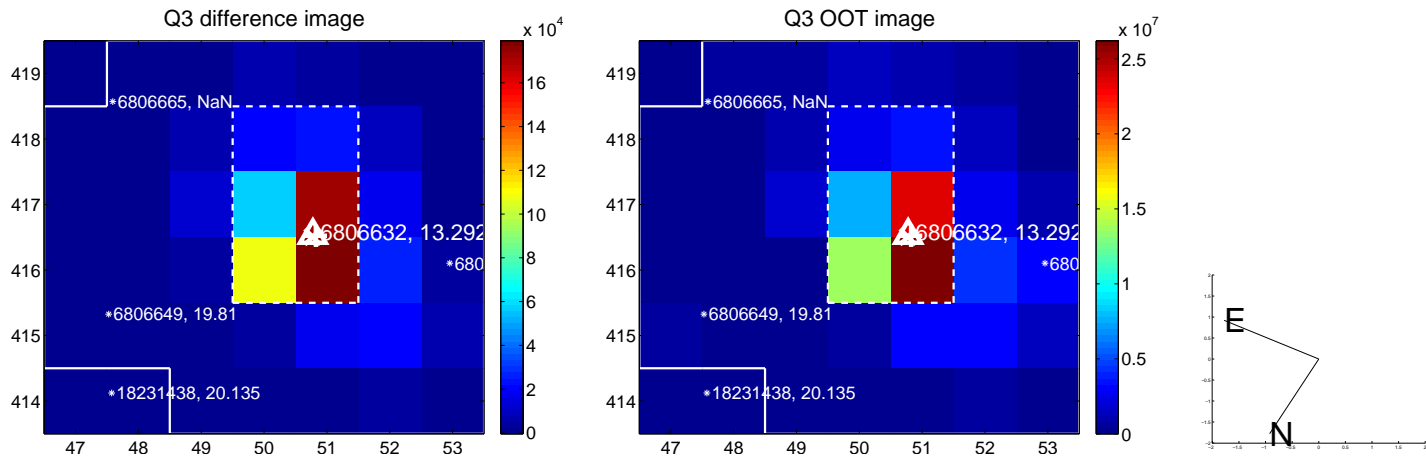
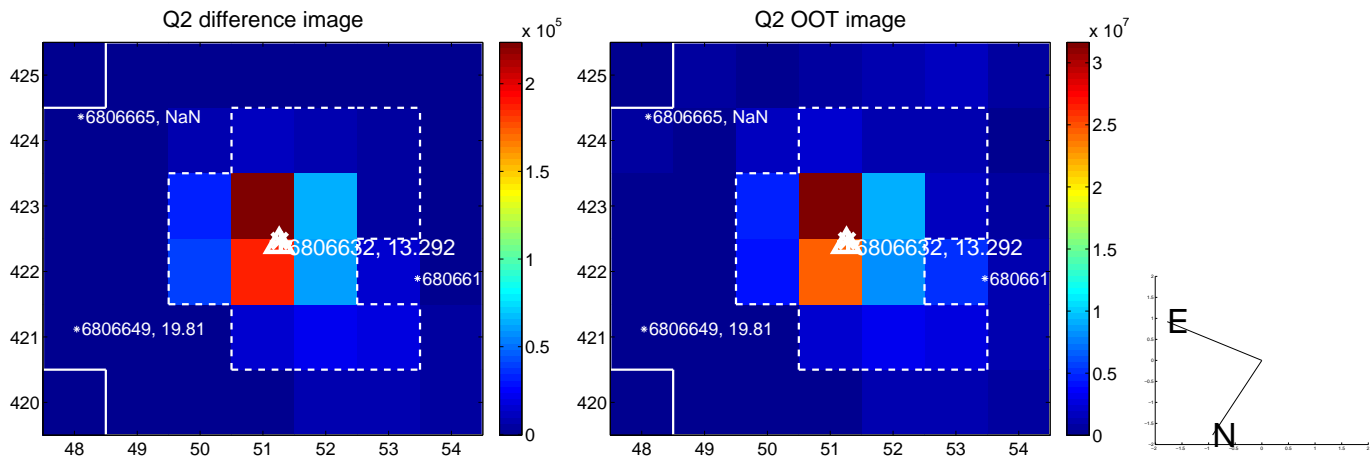
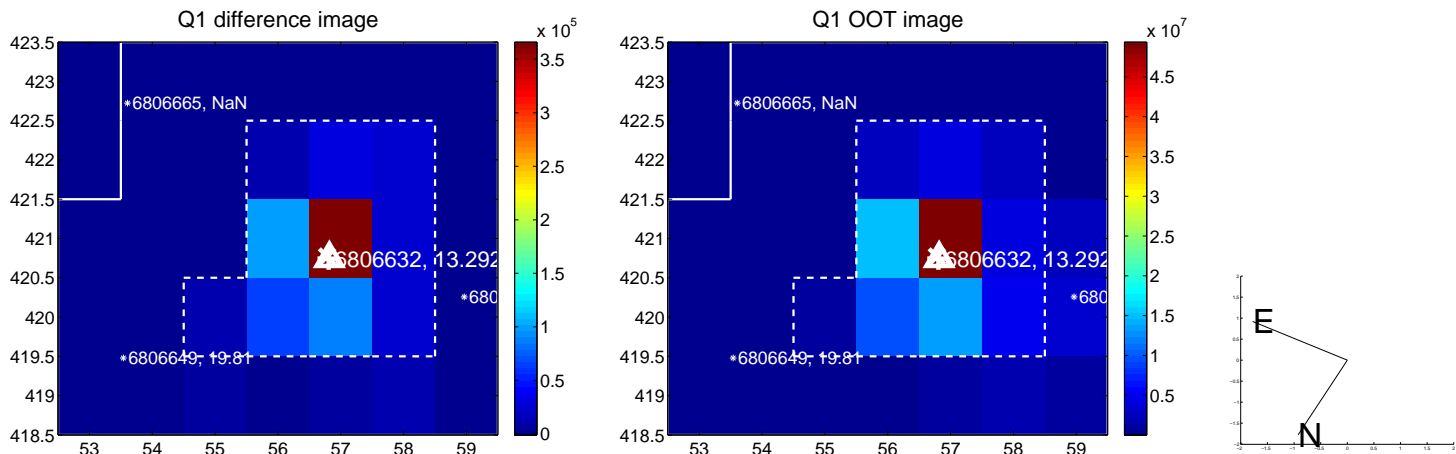
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.124 ± 0.070	1.78	0.122 ± 0.070	0.023 ± 0.068
PRF-fit source offset from KIC position	0.040 ± 0.069	0.58	-0.008 ± 0.069	0.039 ± 0.069
photometric centroid source offset	0.19 ± 0.01	16.05	-0.15 ± 0.01	-0.12 ± 0.01

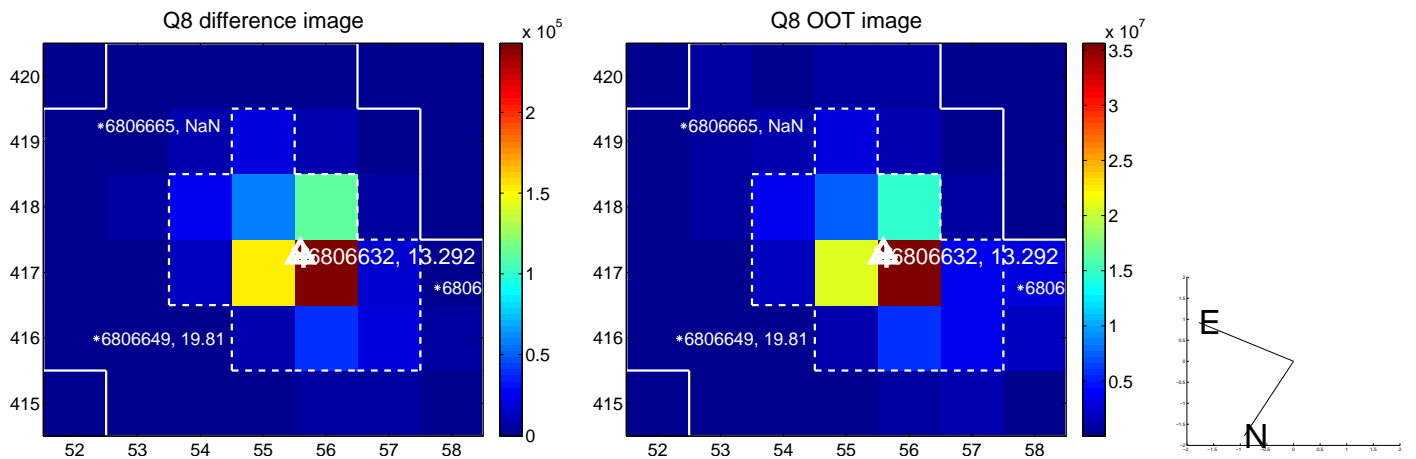
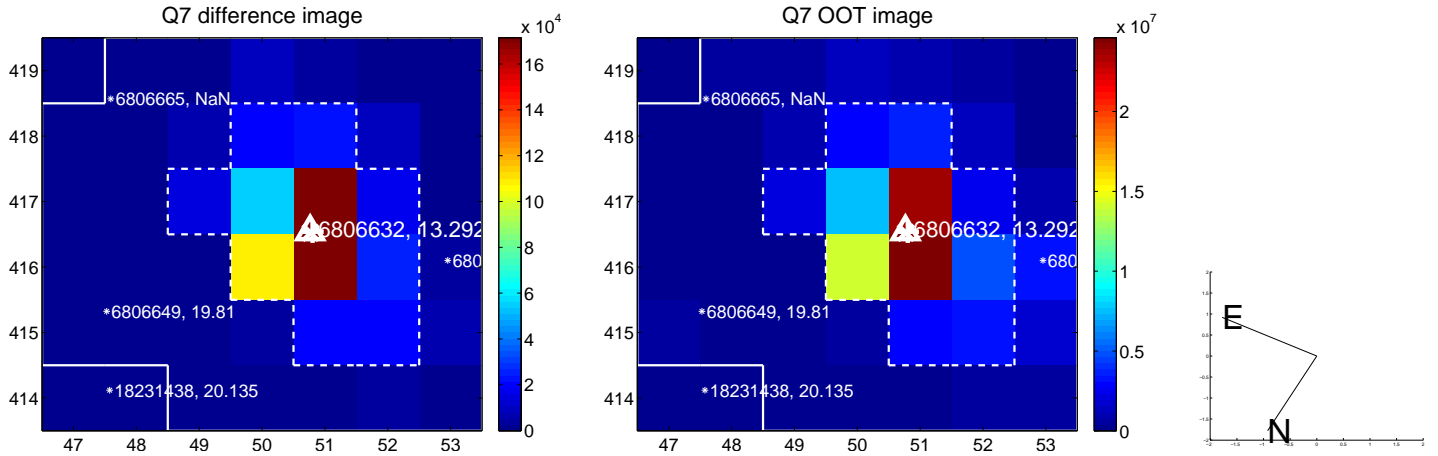
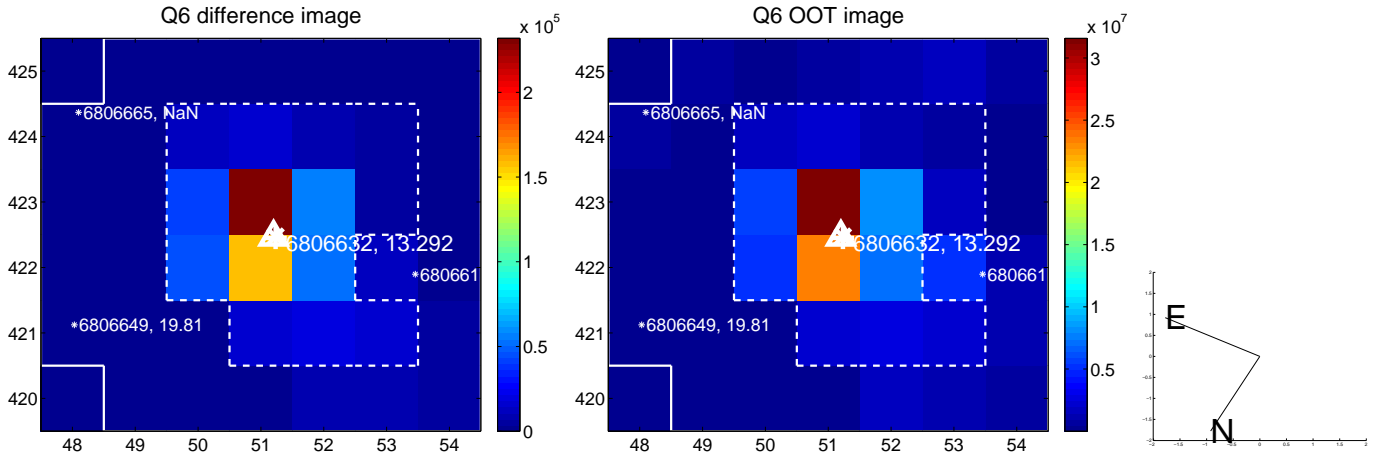
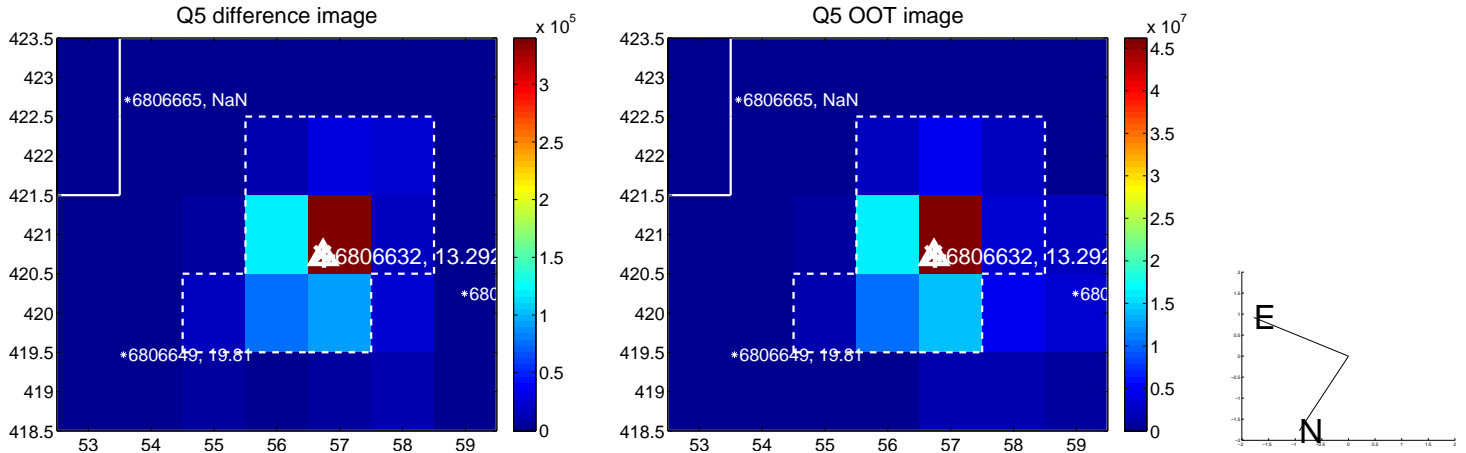


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

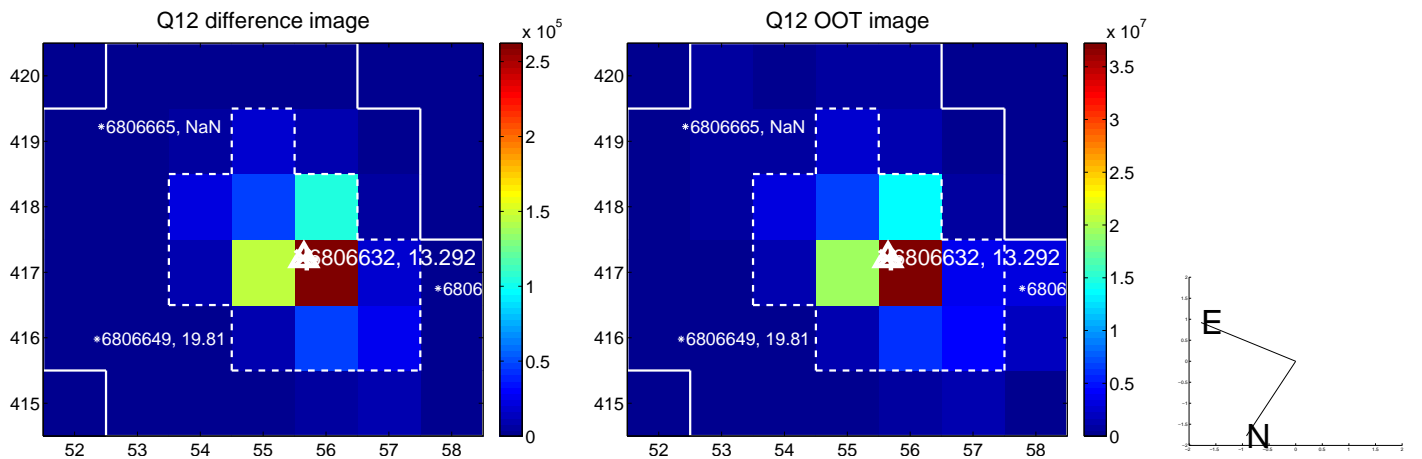
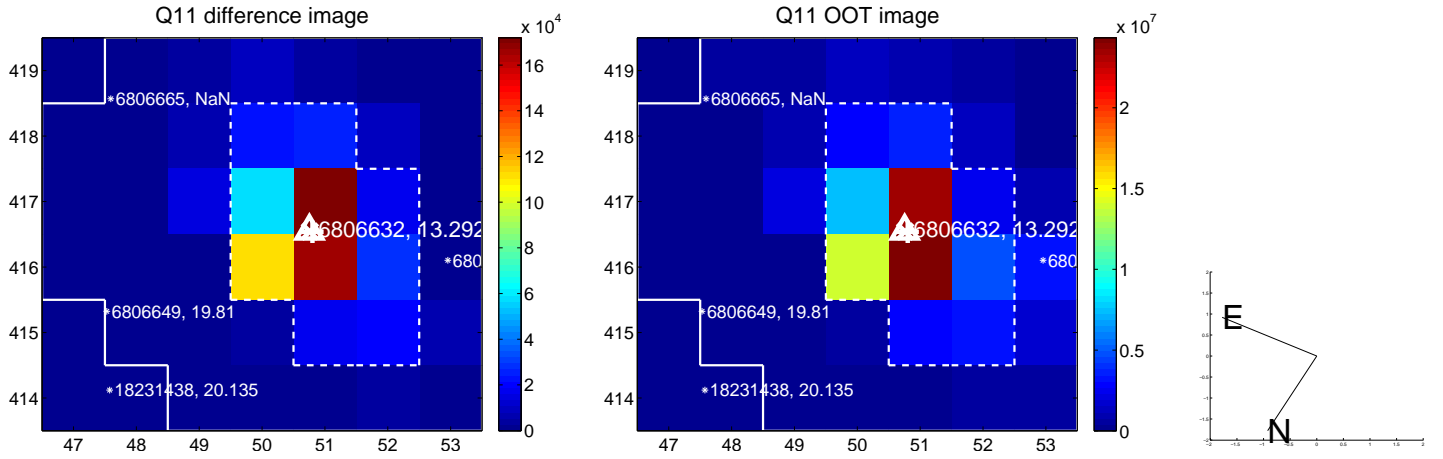
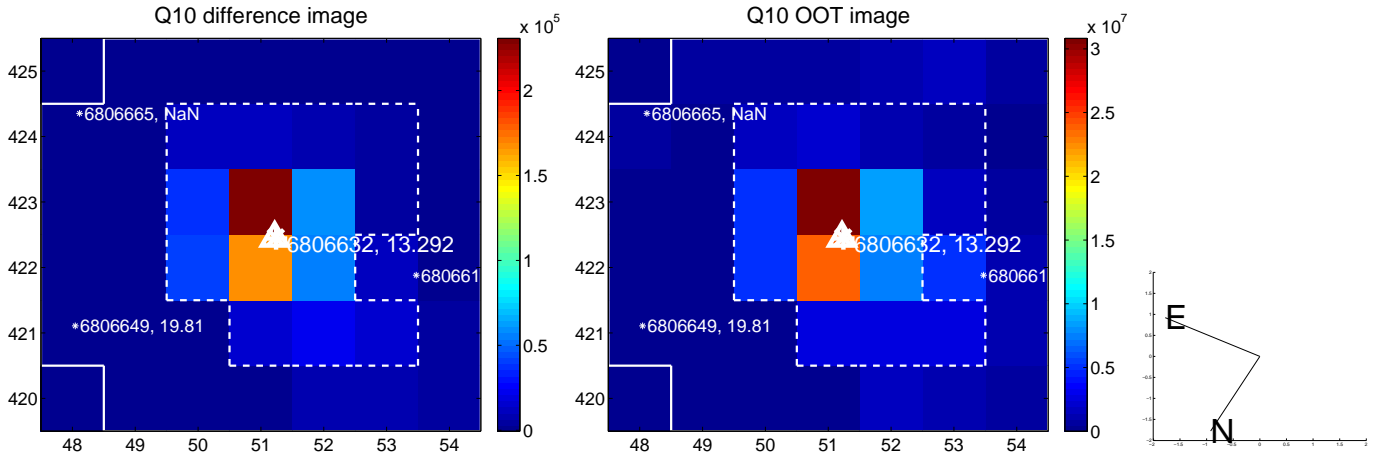
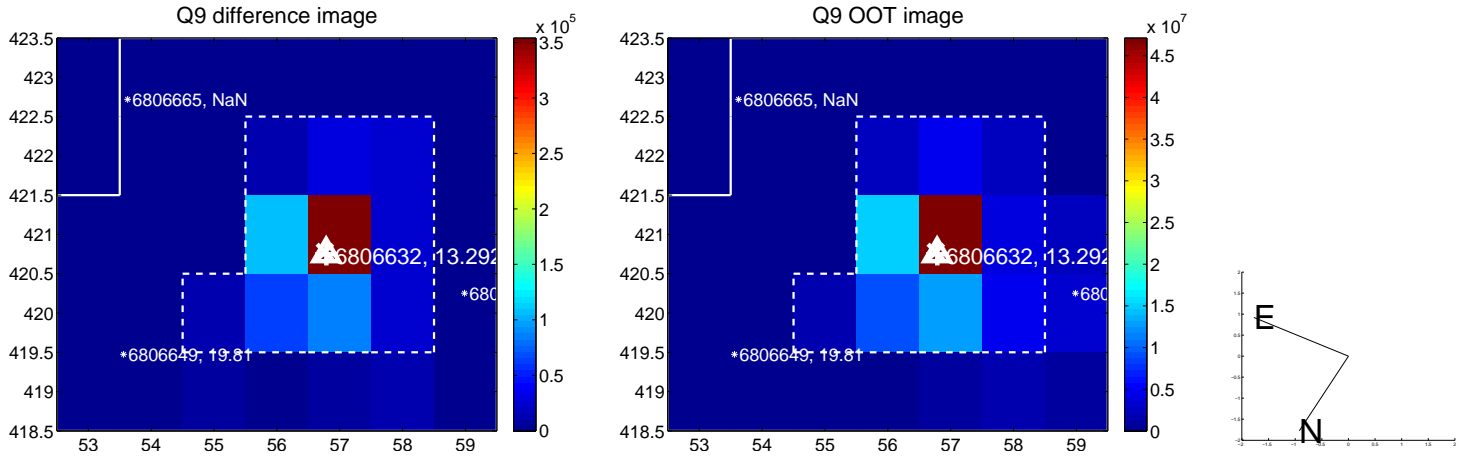
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



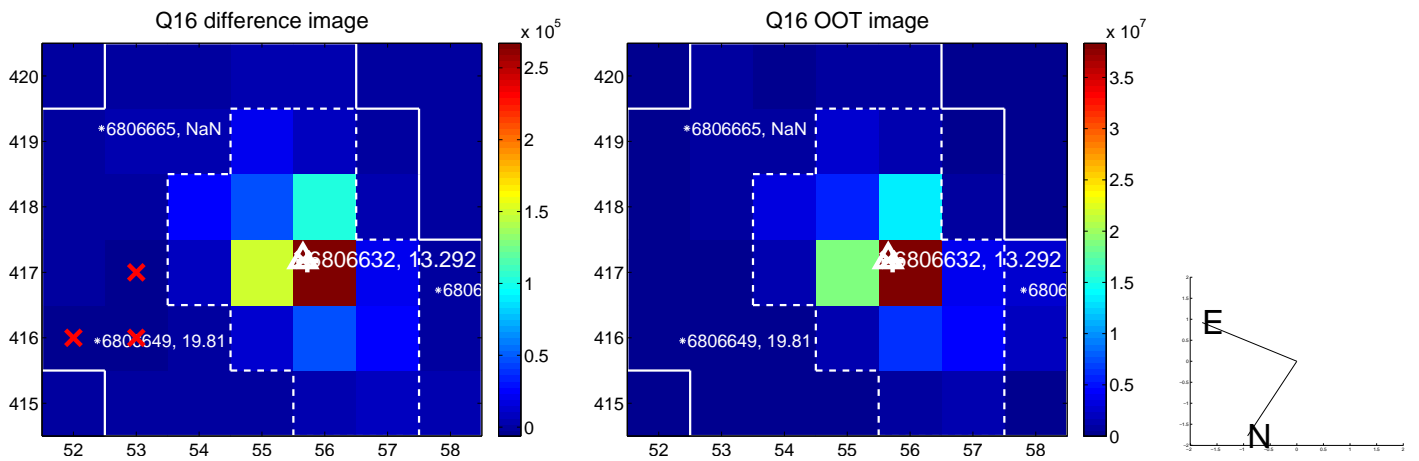
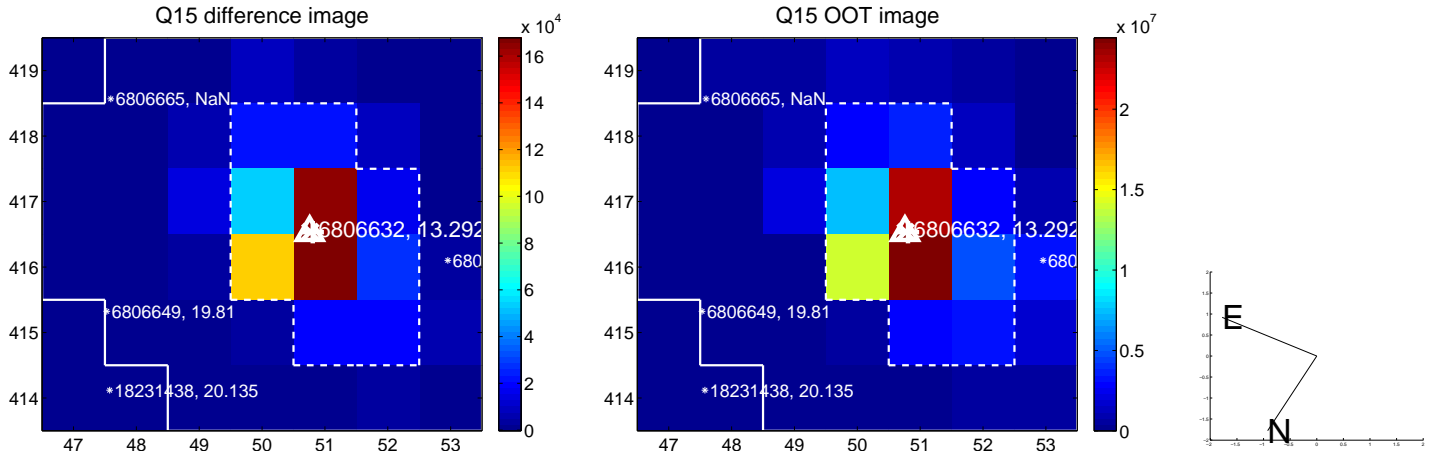
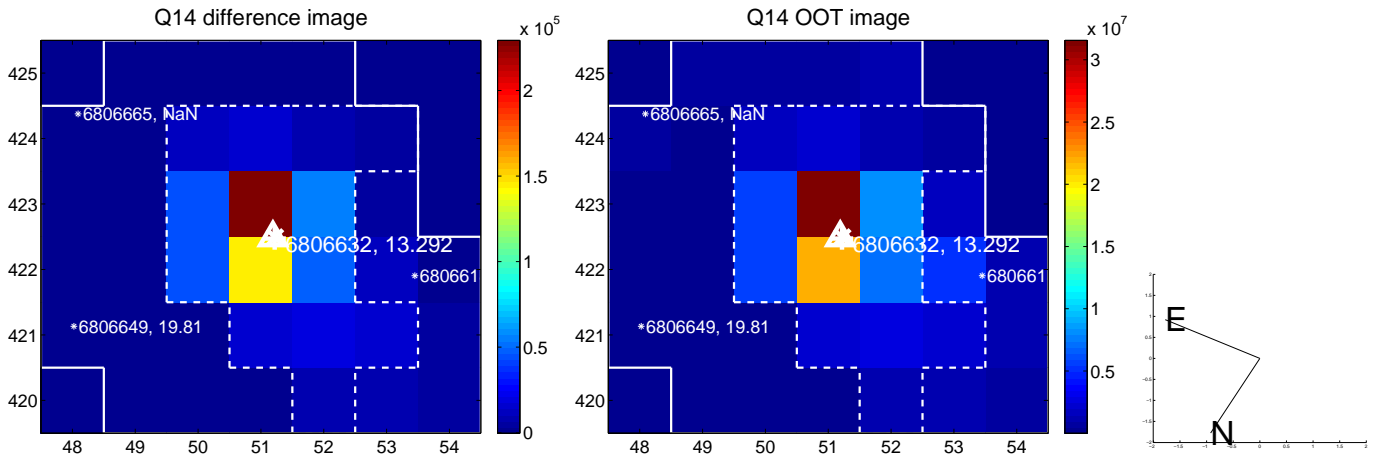
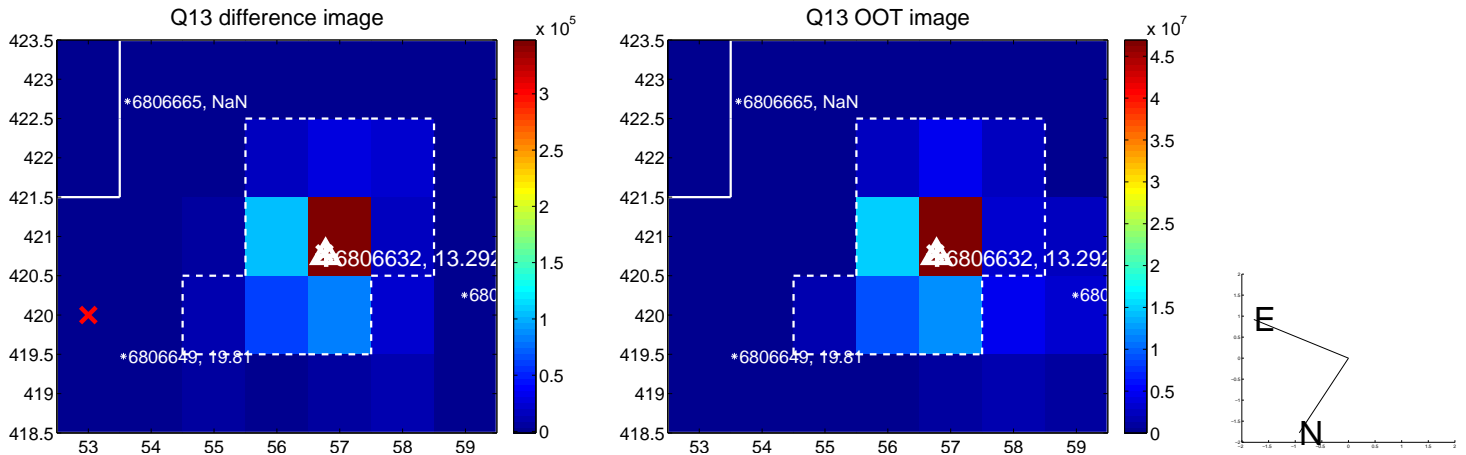
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



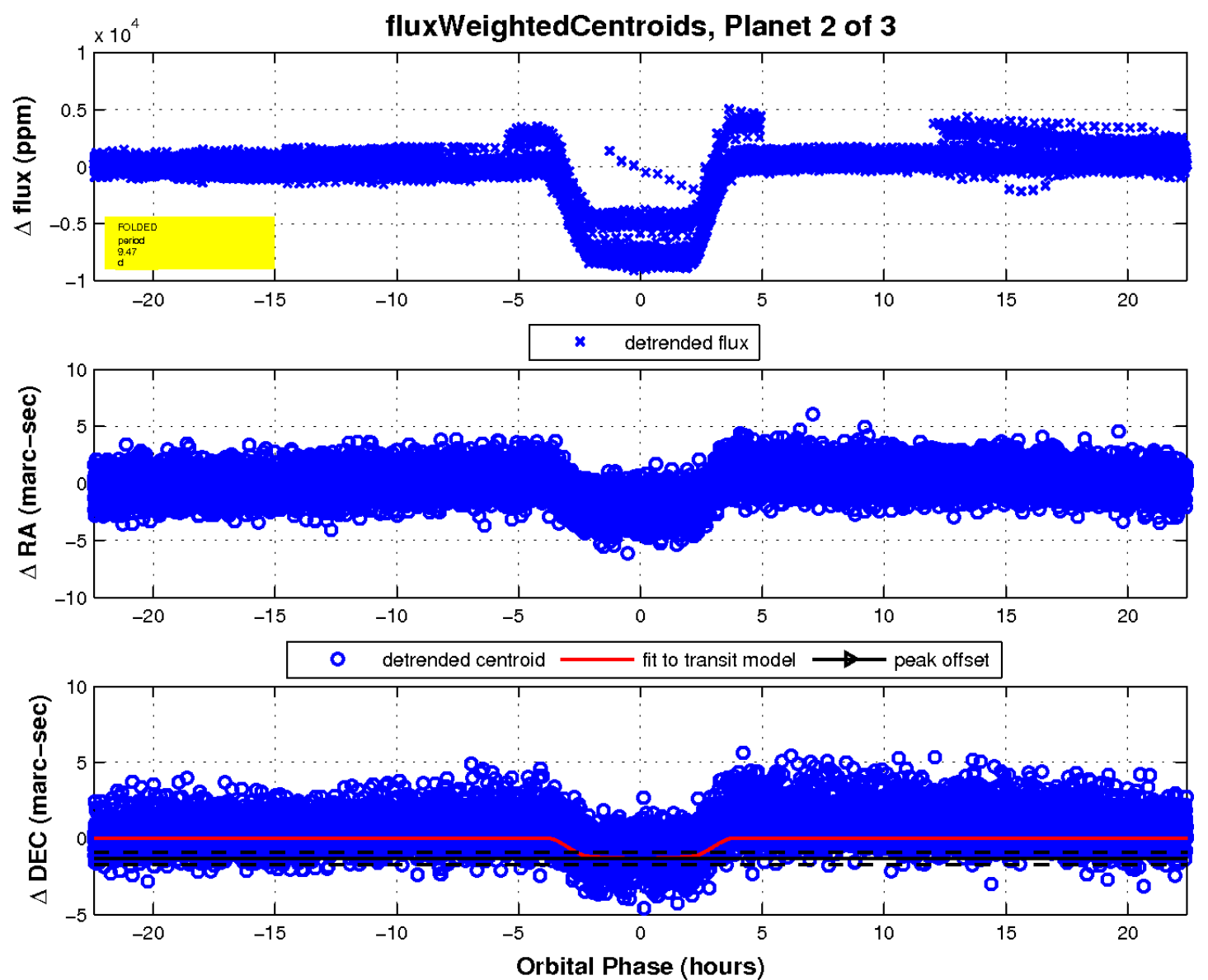
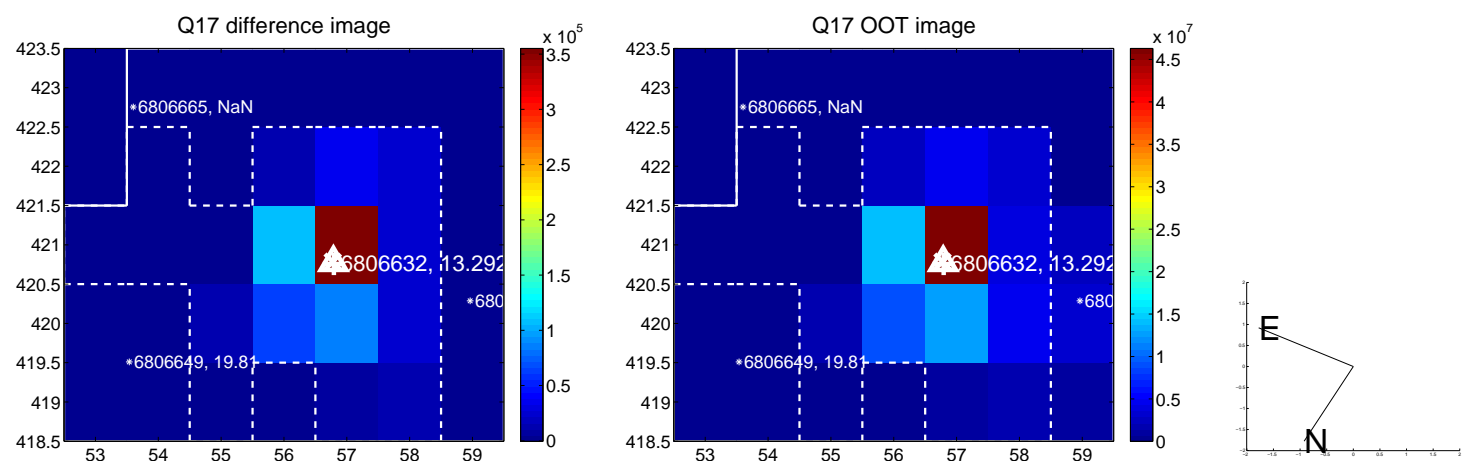
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

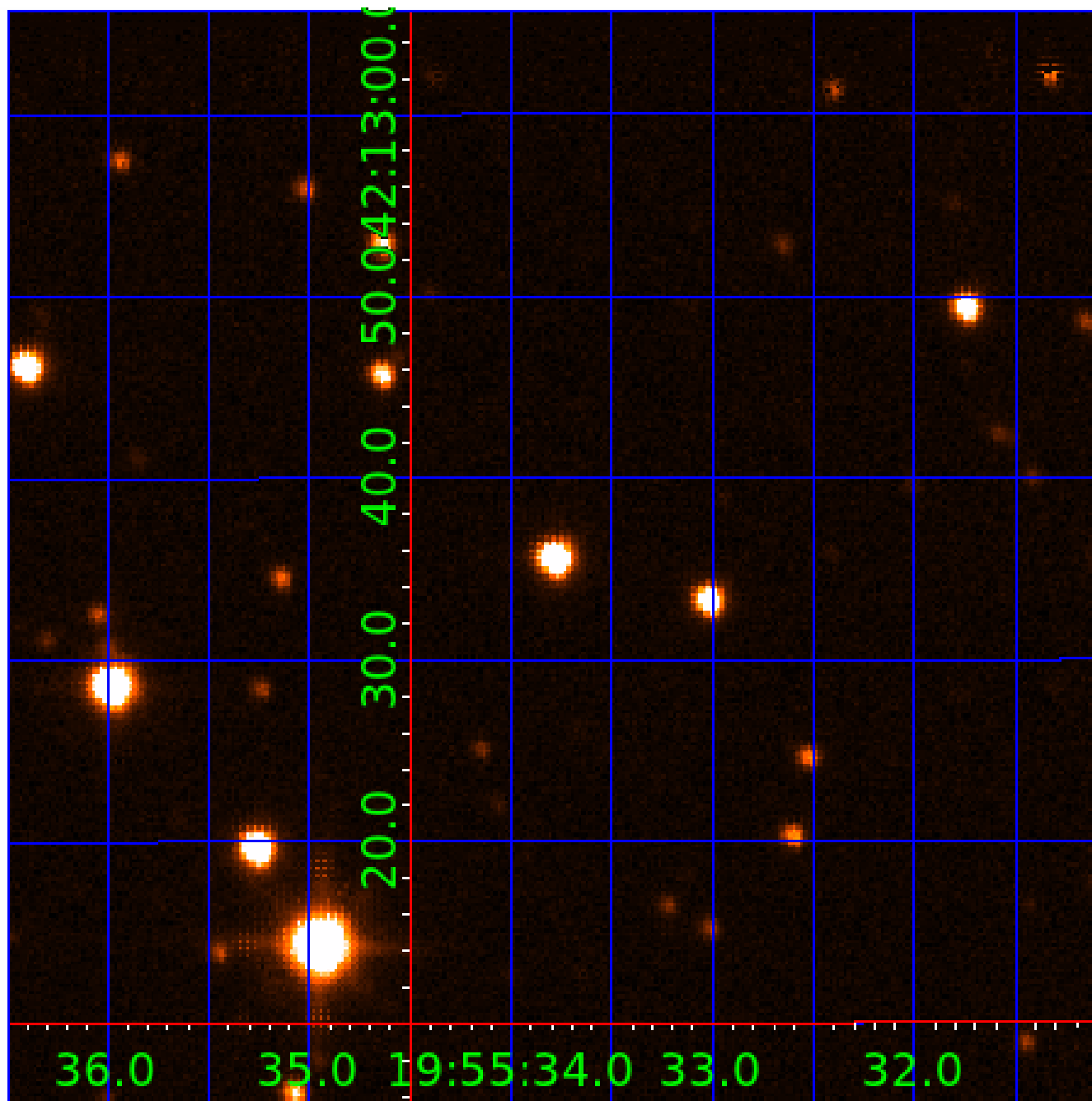


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006806632

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})
006806632-01	OBS	6772.01	9.469190	140.975728	63627.3	9.579	4749.9	4187.4	1.83	9454	49.36	1880.28
006806632-02	OBS	No	9.469206	138.166859	8328.9	7.478	723.1	681.0	1.83	9454	18.35	1880.28
006806632-03	OBS	No	9.469378	139.401975	341.1	31.956	9.9	15.6	1.83	9454	6.21	1880.23

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006806632-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006806632-02	OBS	FP	0.00	1	0	0	0	SAME_NTL_PERIOD
006806632-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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 006806632-03

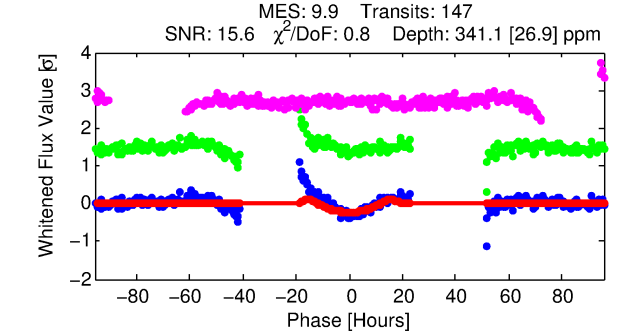
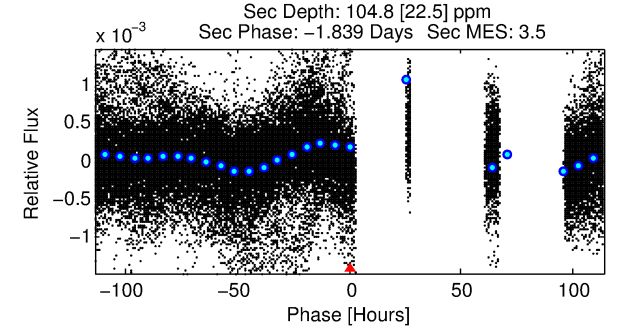
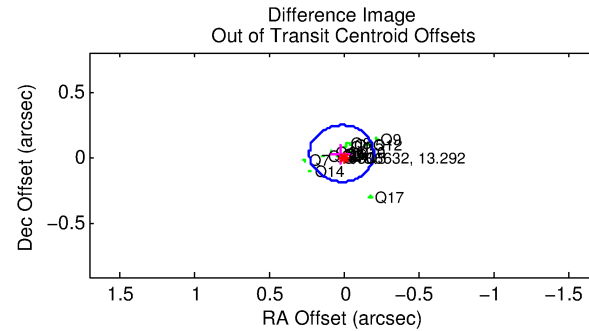
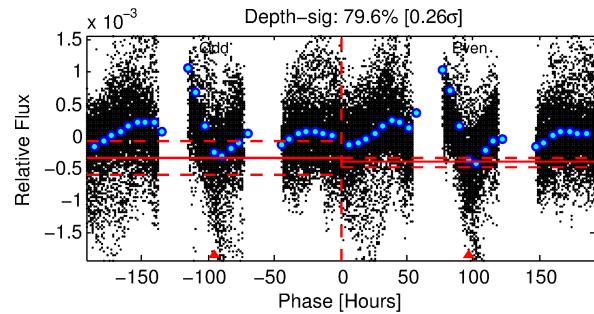
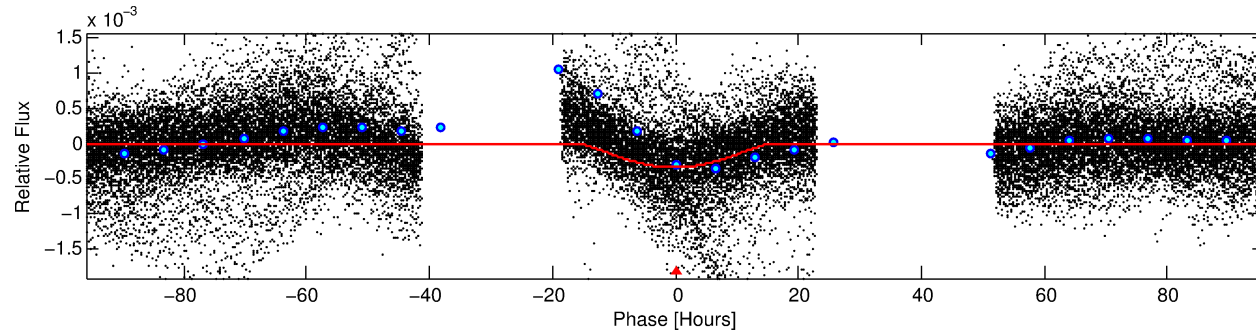
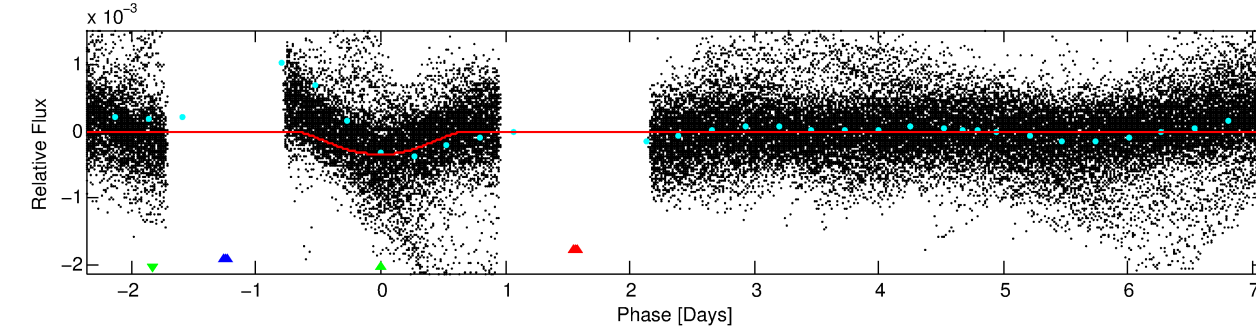
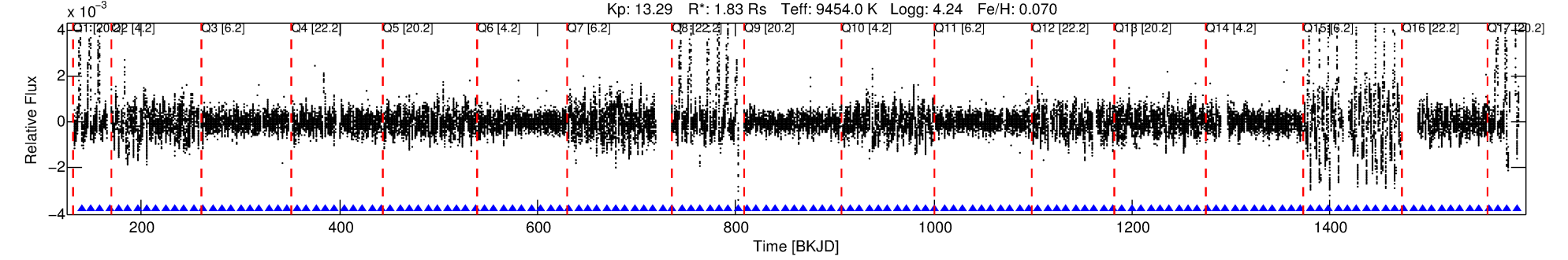
No Significant Match Found

DV One-Page Summary

KIC: 6806632 Candidate: 3 of 3 Period: 9.469 d

KOI: K06772 Corr: No Ephemeris Match

Kp: 13.29 R*: 1.83 Rs Teff: 9454.0 K Logg: 4.24 Fe/H: 0.070



DV Fit Results:

Period = 9.46938 [0.00033] d
Epoch = 139.4020 [0.0290] BKJD
Rp/R* = 0.0311 [0.0180]
a/R* = 1.16 [0.02]
b = 1.00 [0.03]
Seff = 1880.23 [933.28]
Teq = 1679 [208] K
Rp = 6.21 [4.53] Re
a = 0.1130 [0.0390] AU
Ag = 19.10 [24.22] [0.75σ]
Teffp = 5427 [1619] K [2.30σ]

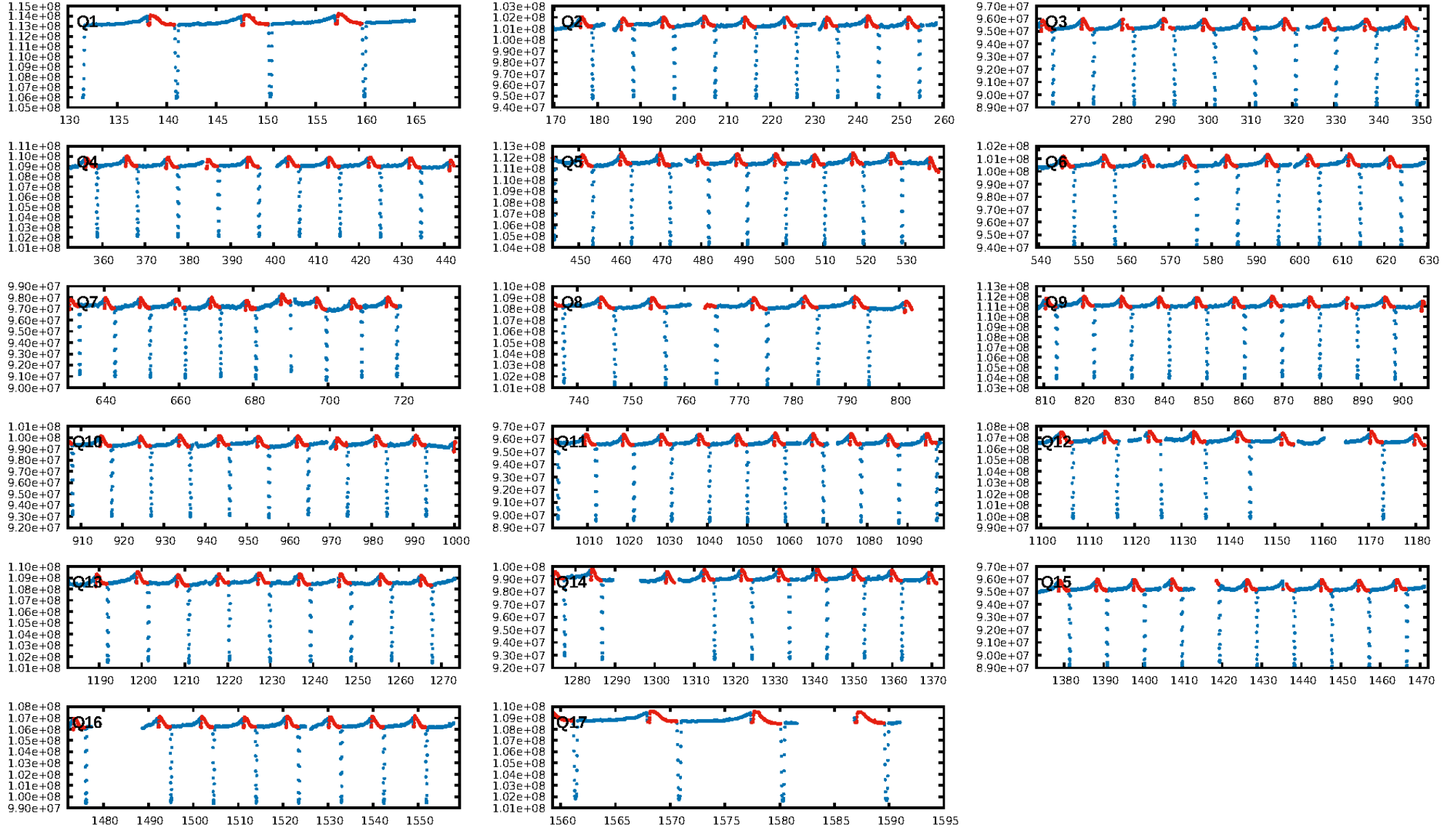
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 10.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.17e-21
RollingBand-fgt: 1.00 [140/140]
GhostDiagnostic-chr: -1.303
Centroid-sig: N/A
Centroid-so: 1.519 arcsec [4.53σ]
OotOffset-rm: 0.036 arcsec [0.51σ]
KicOffset-rm: 0.141 arcsec [1.83σ]
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]

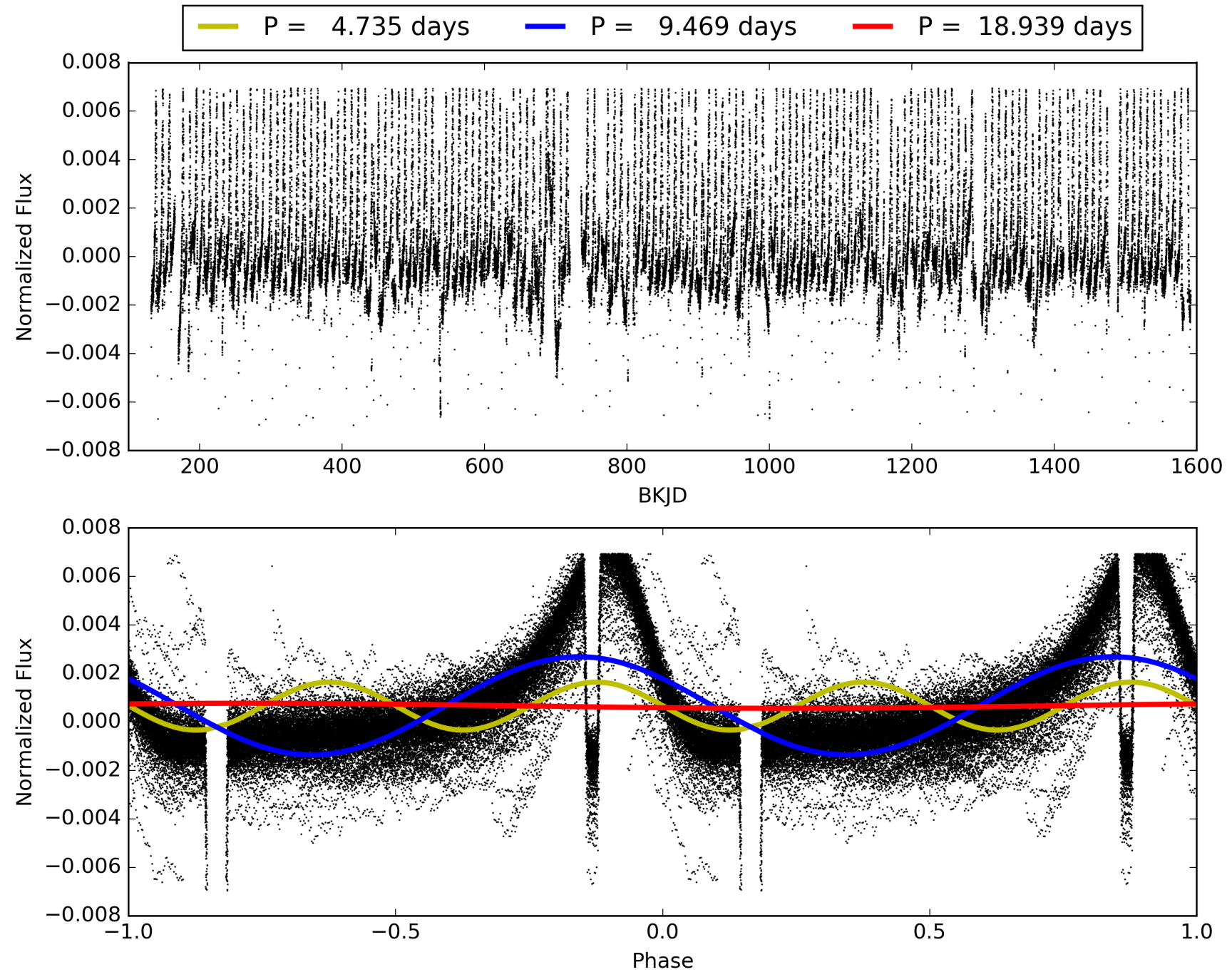
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:09:03 Z

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

TCE 006806632-03, PDC Light Curves

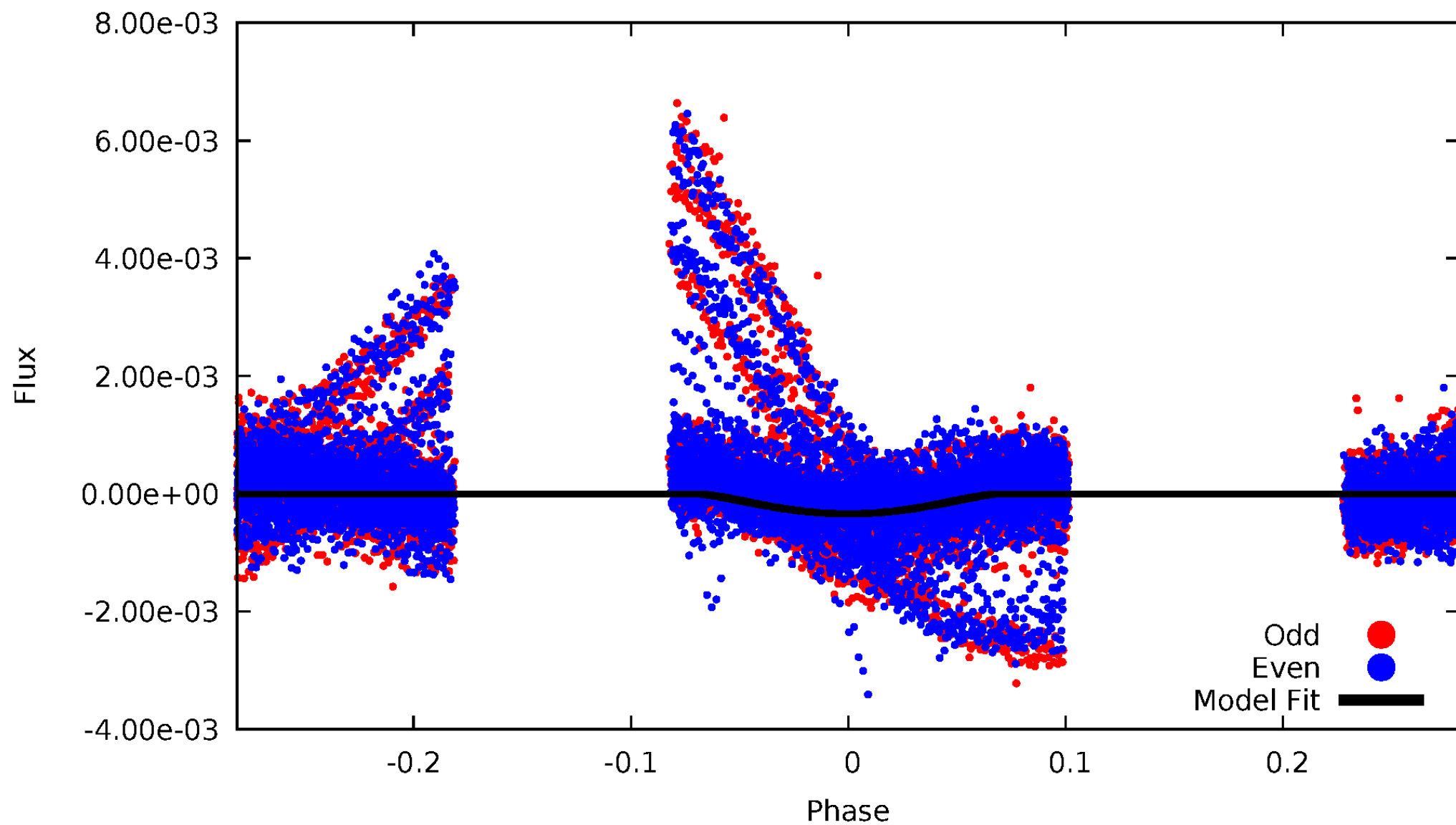


TCE 006806632-03



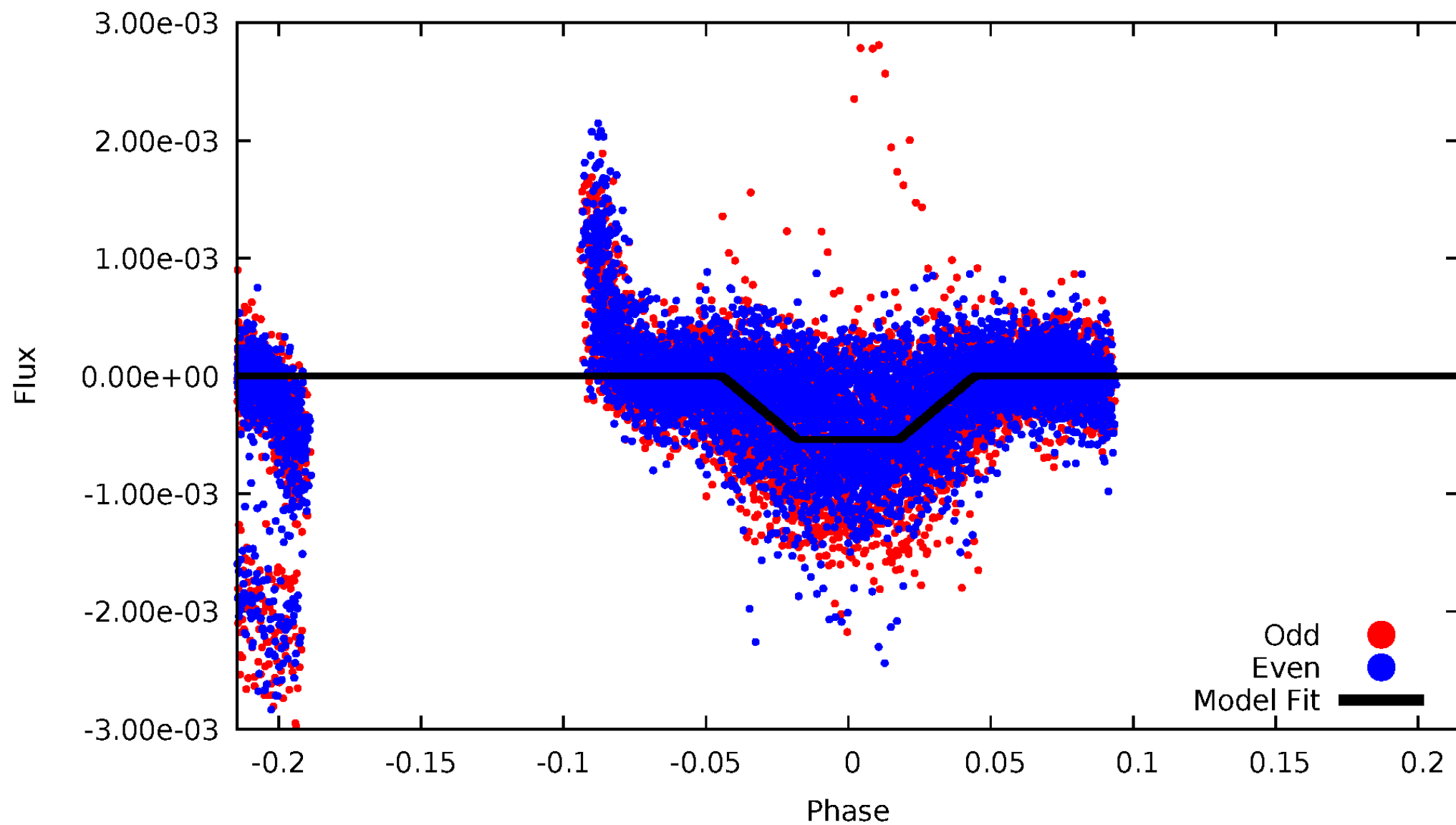
DV Odd/Even

TCE 006806632-03

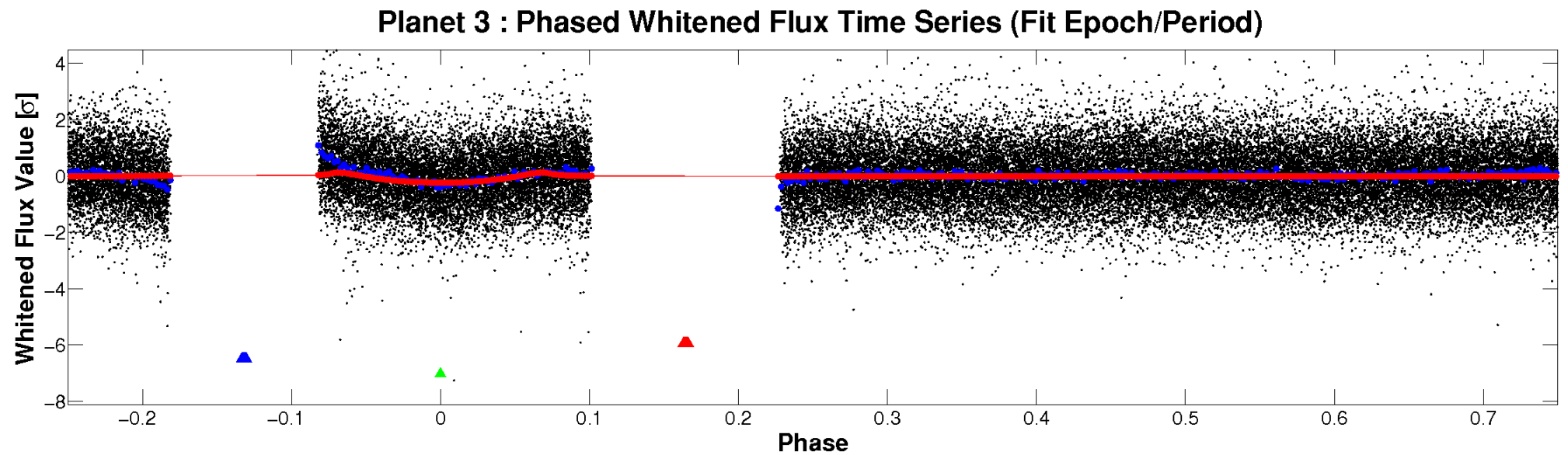
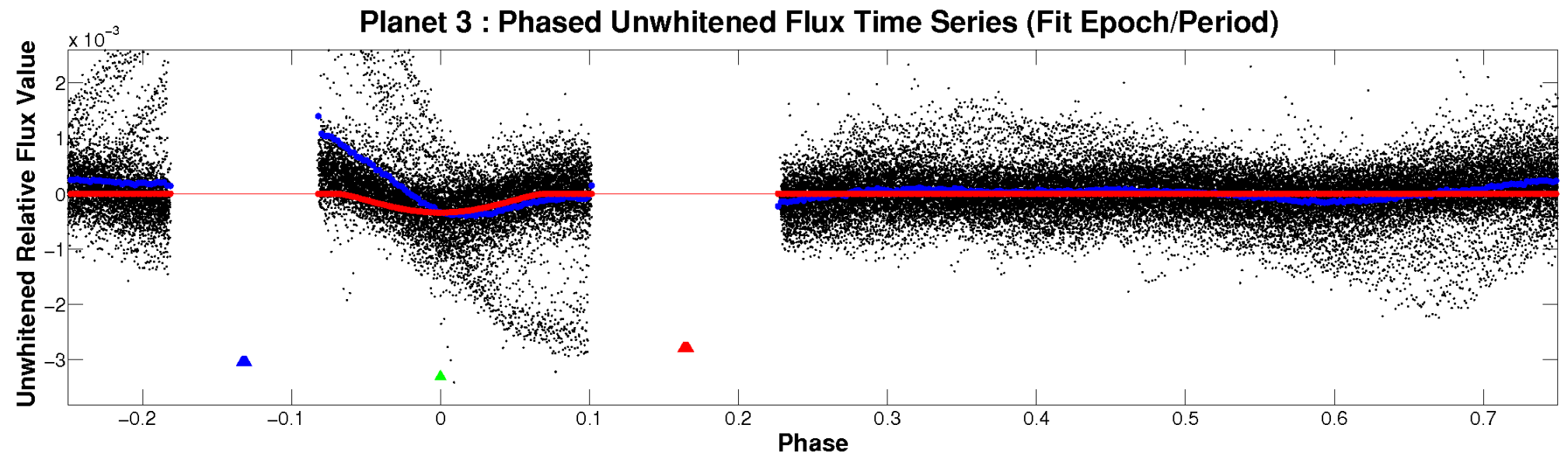


ALT Odd/Even

TCE 006806632-03

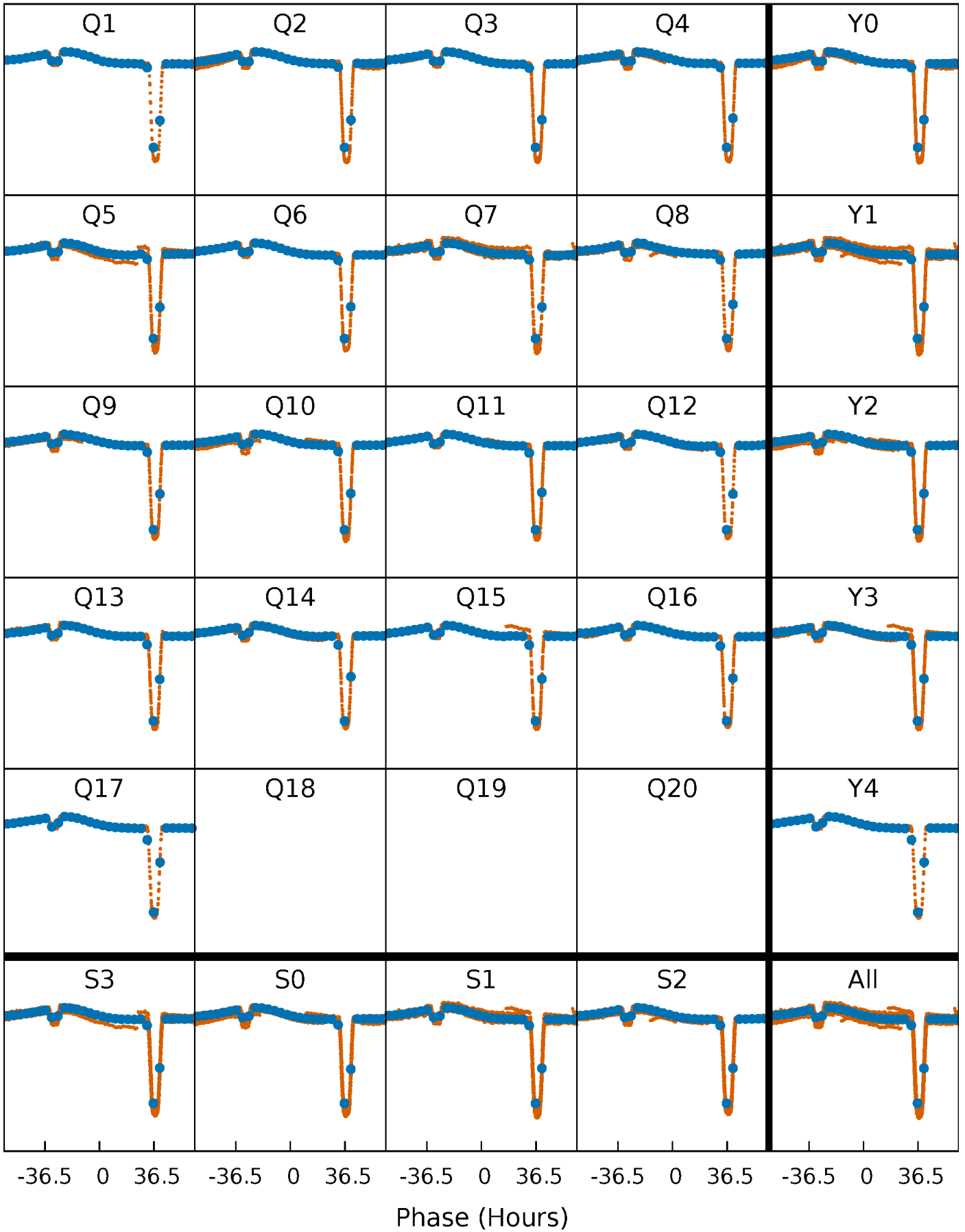


Non-Whitened Vs. Whitened Light Curve



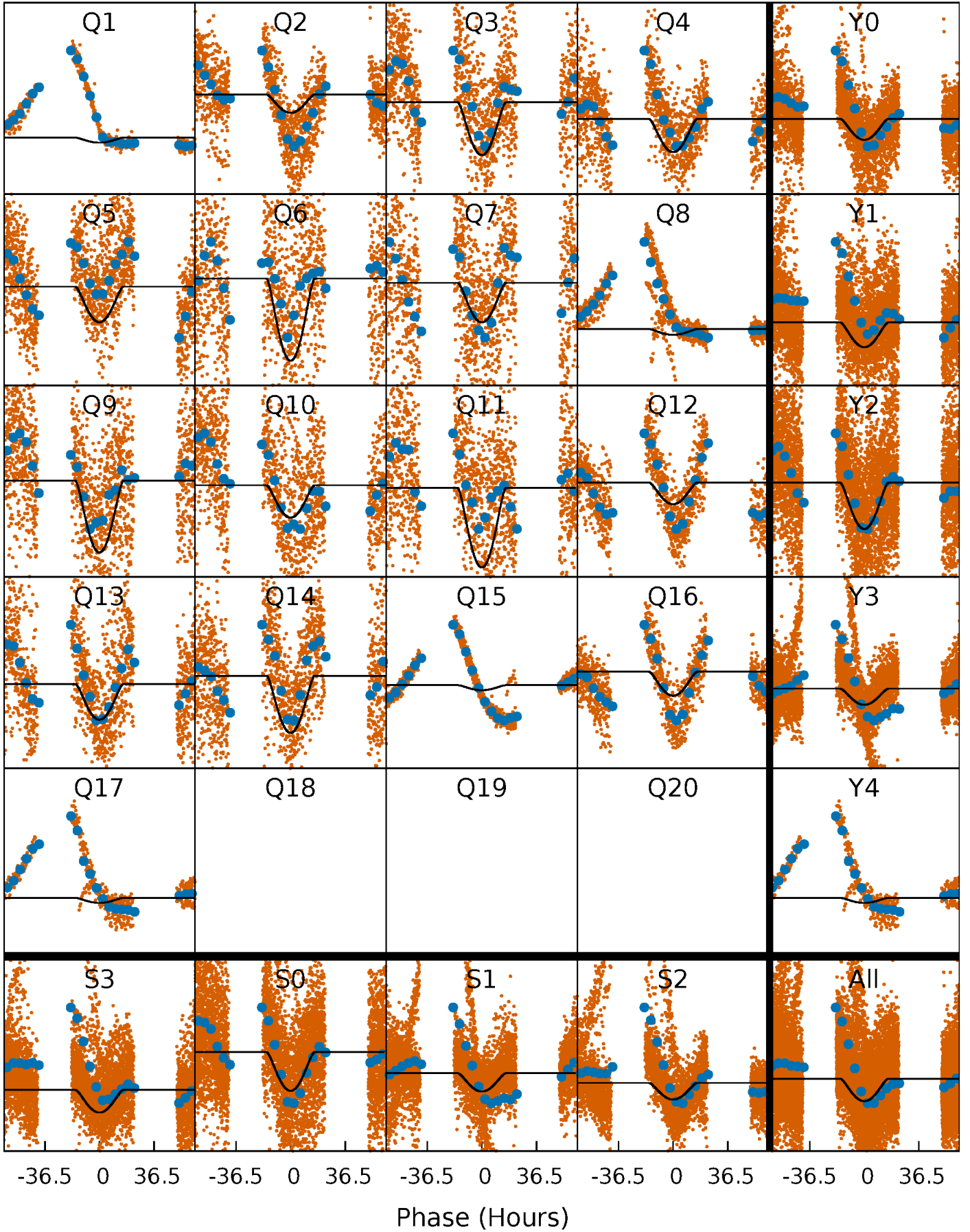
PDC Quarter-Phased Transit Curves

TCE 006806632-03 P= 9.469378 Days $T_0=139.401975$ (BKJD)



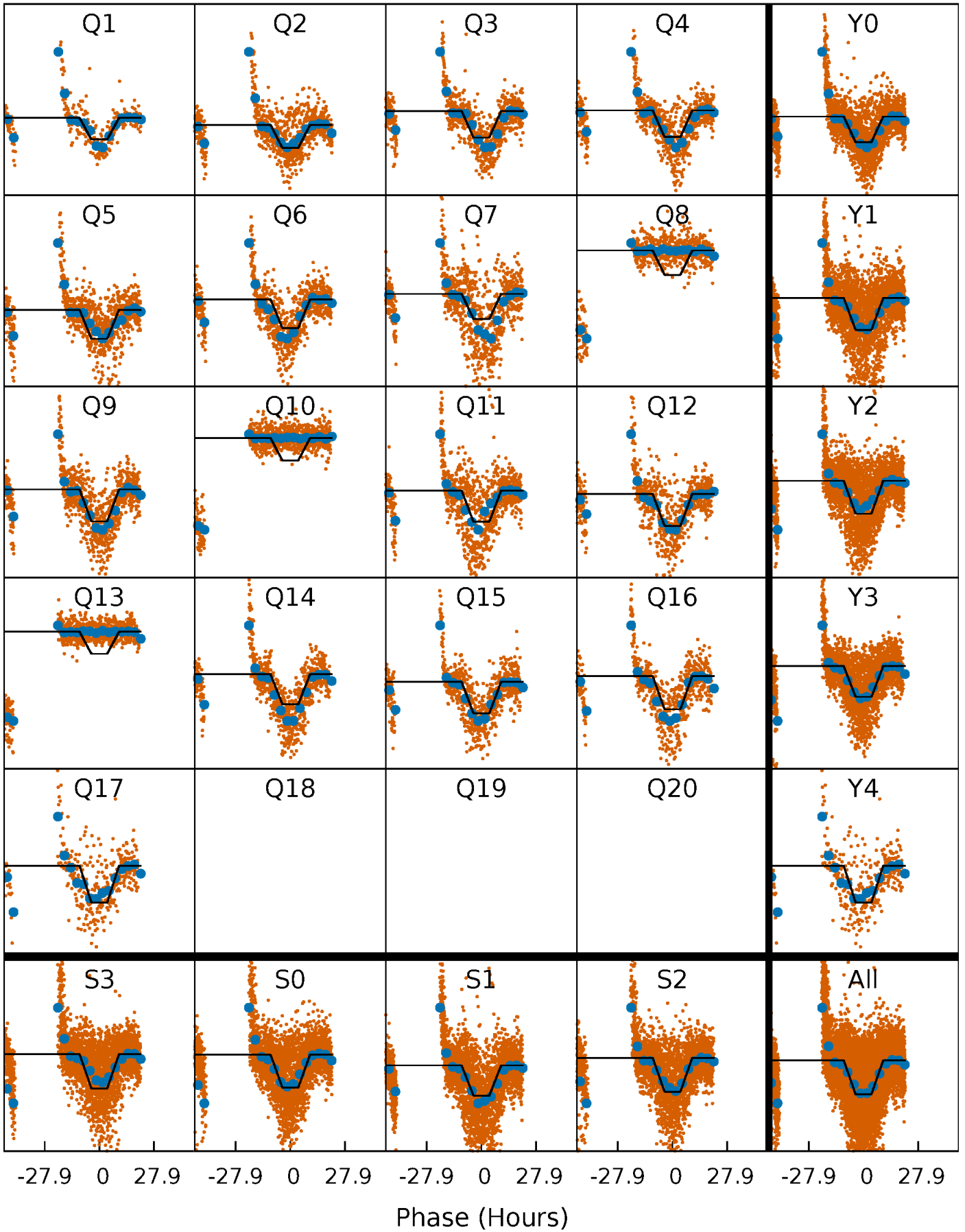
DV Quarter-Phased Transit Curves

TCE 006806632-03 P= 9.469378 Days $T_0=139.401975$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

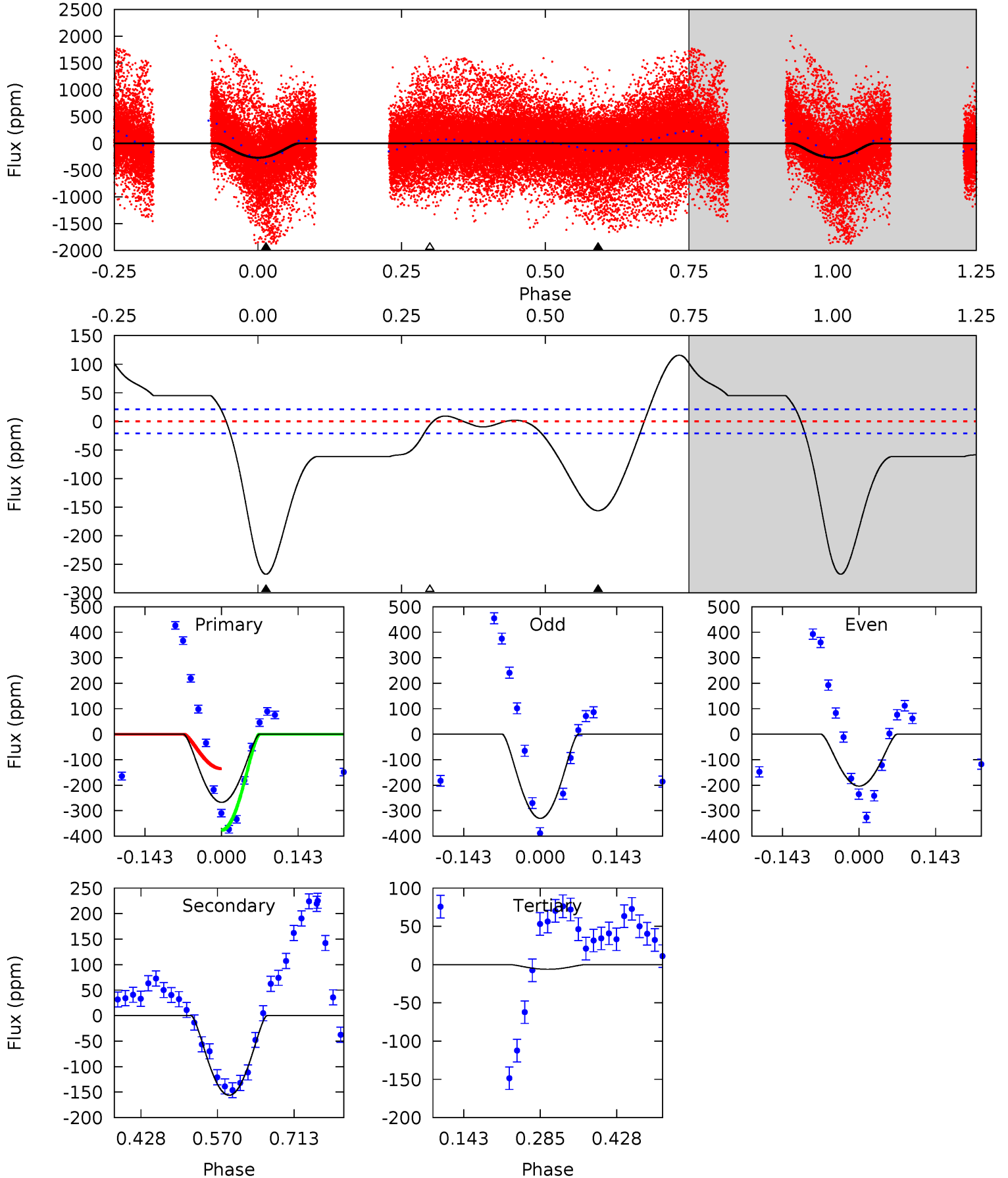
TCE 006806632-03 P= 9.469635 Days $T_0=139.472835$ (BKJD)



DV Model-Shift Uniqueness Test

006806632-03, P = 9.469378 Days, E = 129.932597 Days

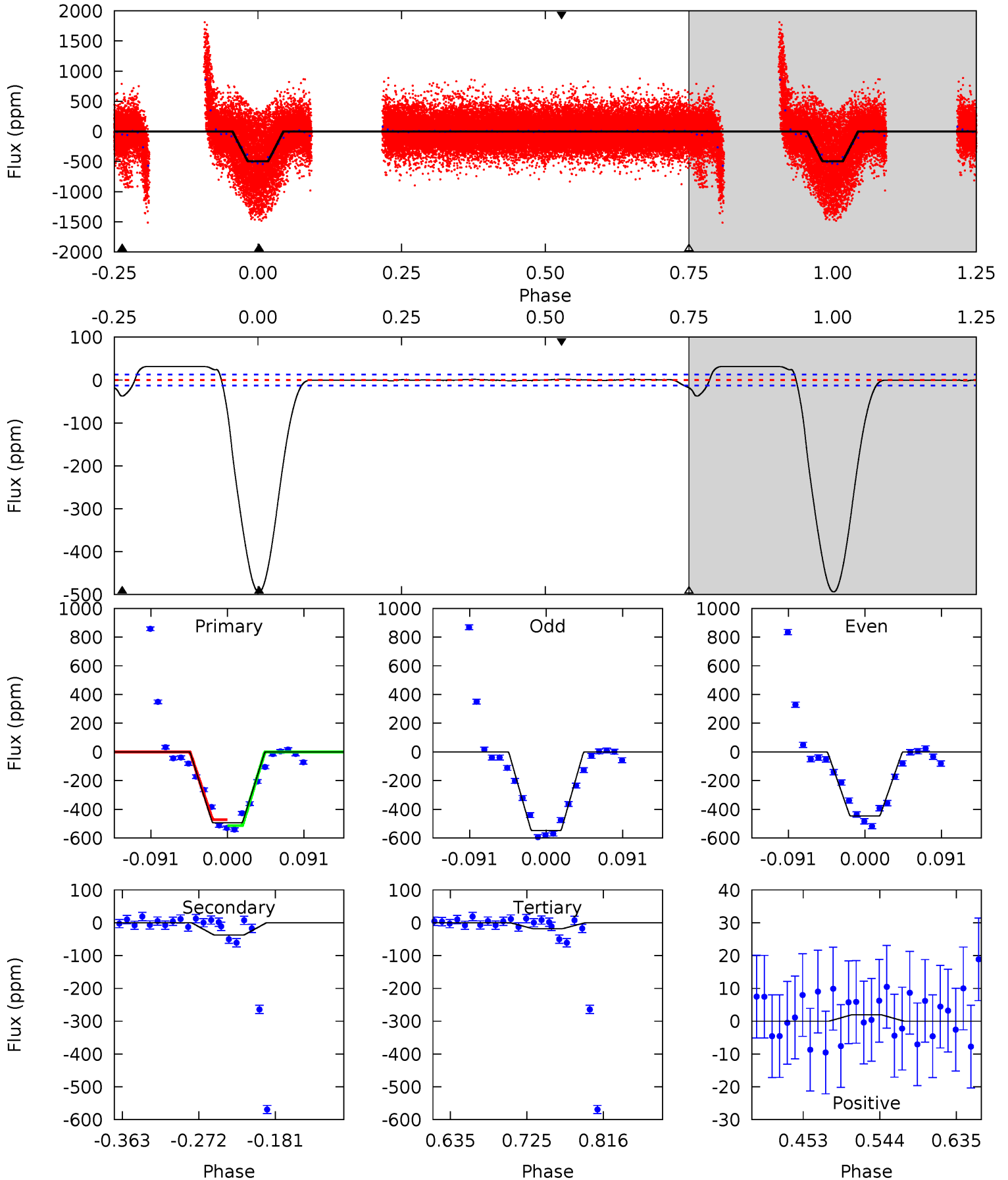
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
56.9	33.2	1.30	0	4.49	1.47	9.97	55.6	56.9	31.9	33.2	13.5	0.83	0.30	25.4



Alt Model-Shift Uniqueness Test

006806632-03, P = 9.469635 Days, E = 130.003200 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
176.8	13.4	6.47	0.69	4.59	1.69	1.13	170.3	176.1	6.92	12.7	18.2	0.93	0.06	6.92



Stellar Parameters For KIC 006806632

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9454^{+301}_{-414}	$4.244^{+0.108}_{-0.234}$	$0.070^{+0.200}_{-0.700}$	$1.832^{+0.809}_{-0.405}$	$2.144^{+0.424}_{-0.471}$	$0.491^{+0.306}_{-0.289}$
	+3%/-4%	+3%/-6%	+286%/-1000%	+44%/-22%	+20%/-22%	+62%/-59%
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 006806632-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-156 ± 5	$6.55^{+4.05}_{-3.30}$	2379^{+212}_{-169}	5495^{+2450}_{-967}	24^{+78}_{-14}
Alt.	-37 ± 3	$5.18^{+3.75}_{-2.99}$	2390^{+225}_{-173}	4507^{+2274}_{-801}	$9.486^{+40.638}_{-6.260}$

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 $A_{obs} \gg 1.0$

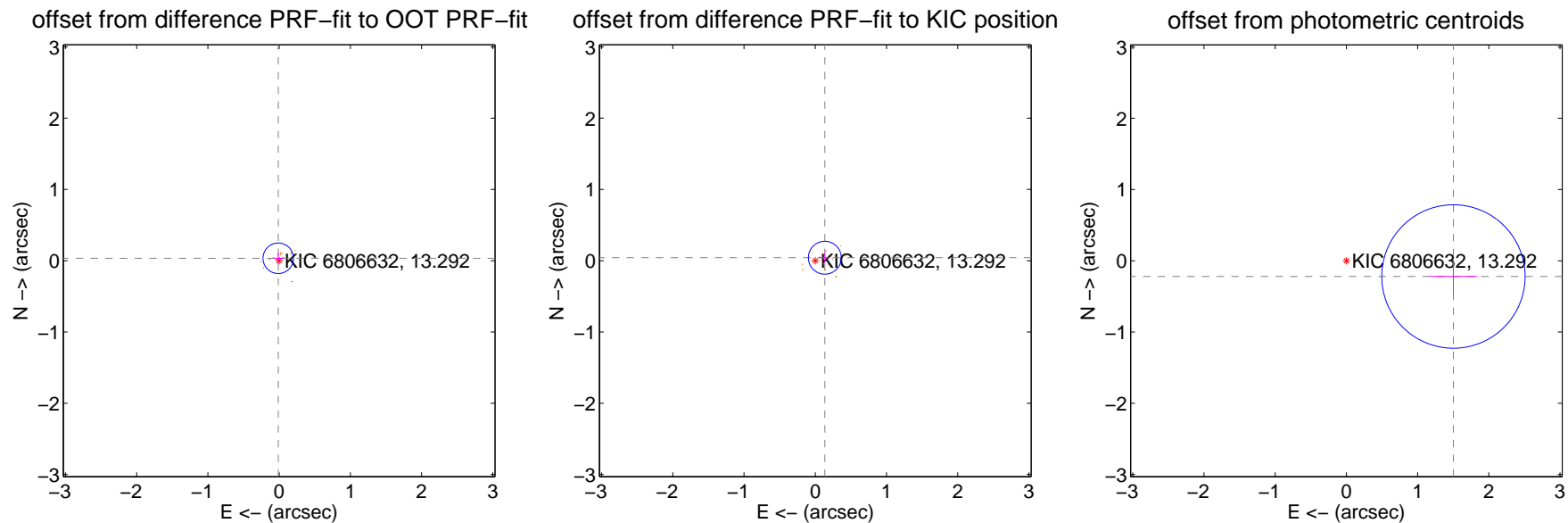
DV Centroid Data

Supplemental centroid analysis for 006806632-03. Kepler magnitude: 13.29. Transit SNR 15.62

There are 0 quarters with good PRF difference image offsets

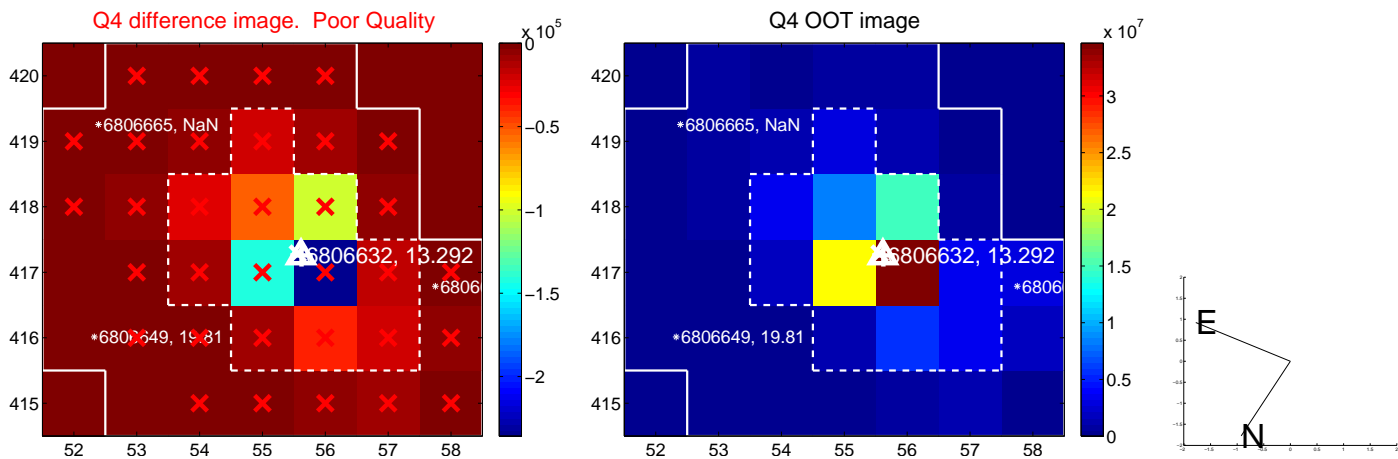
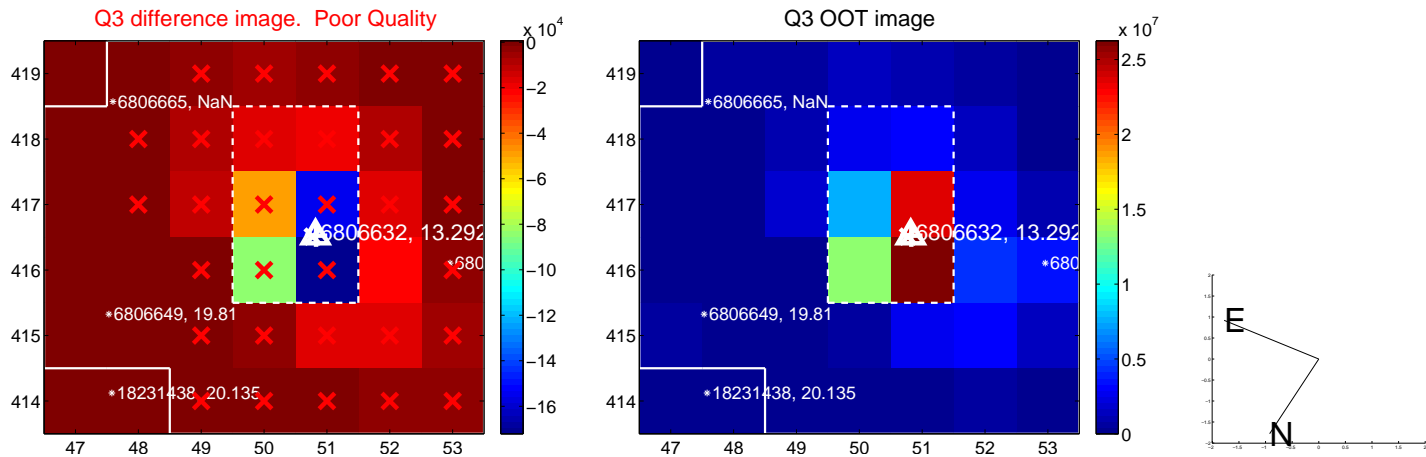
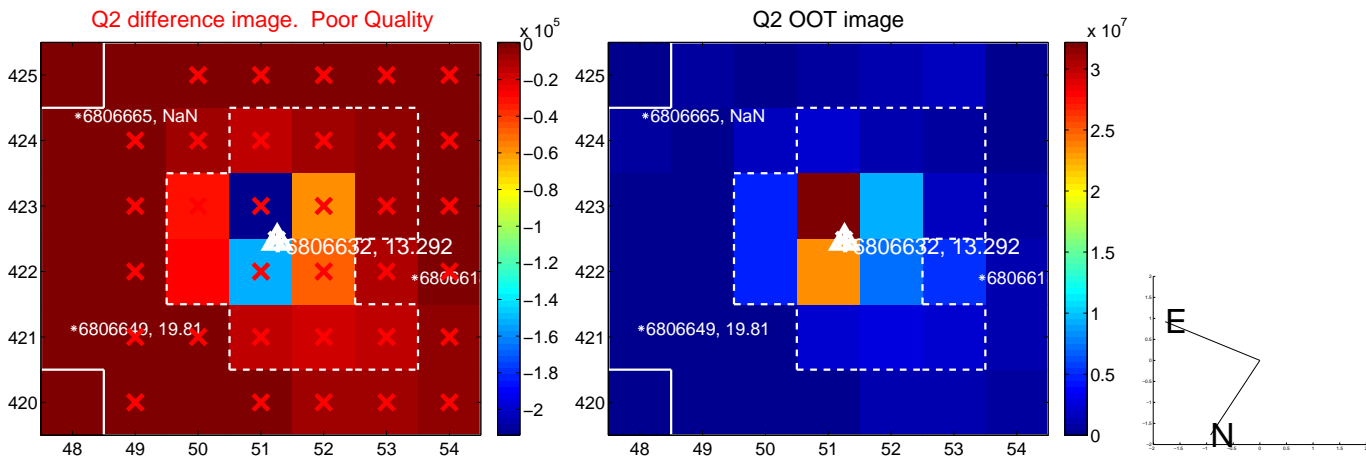
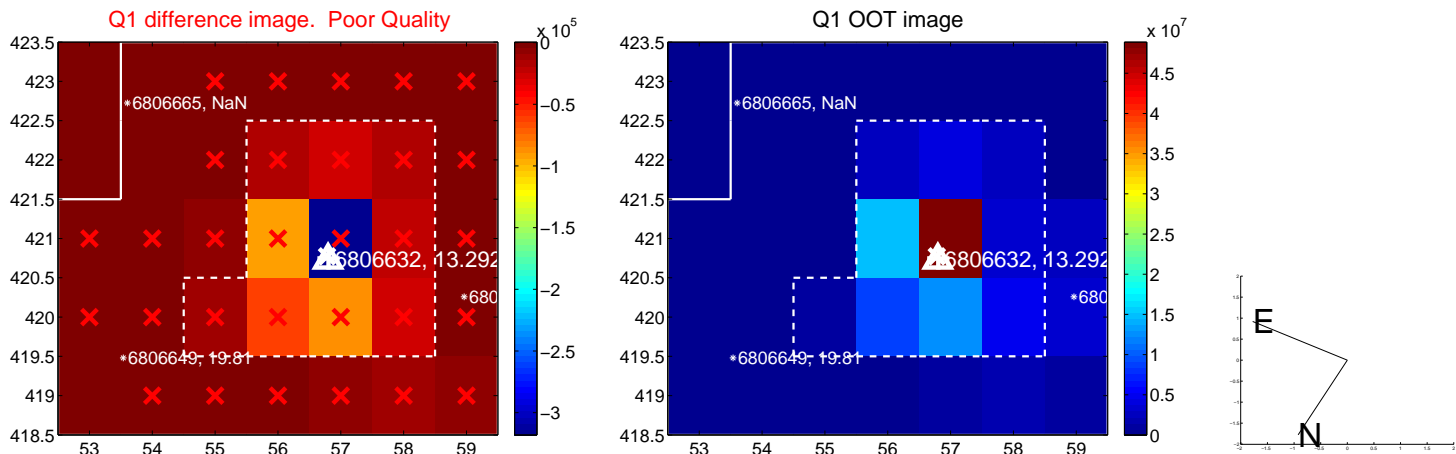
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.036 ± 0.071	0.51	0.013 ± 0.074	0.034 ± 0.071
PRF-fit source offset from KIC position	0.141 ± 0.077	1.83	-0.134 ± 0.077	0.042 ± 0.071
photometric centroid source offset	1.52 ± 0.34	4.53	-1.50 ± 0.34	-0.22 ± 0.24

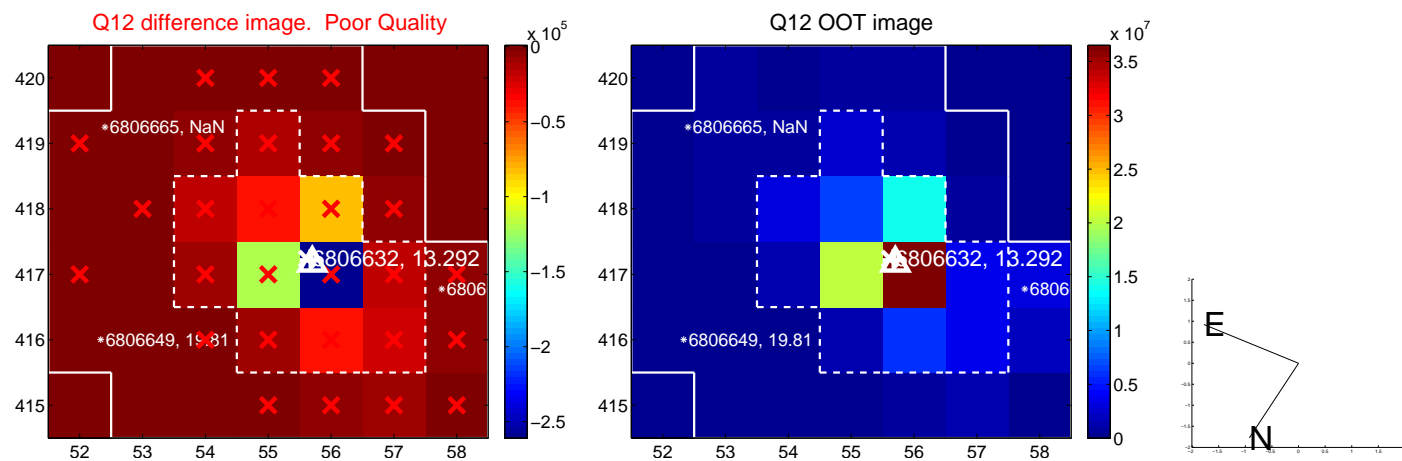
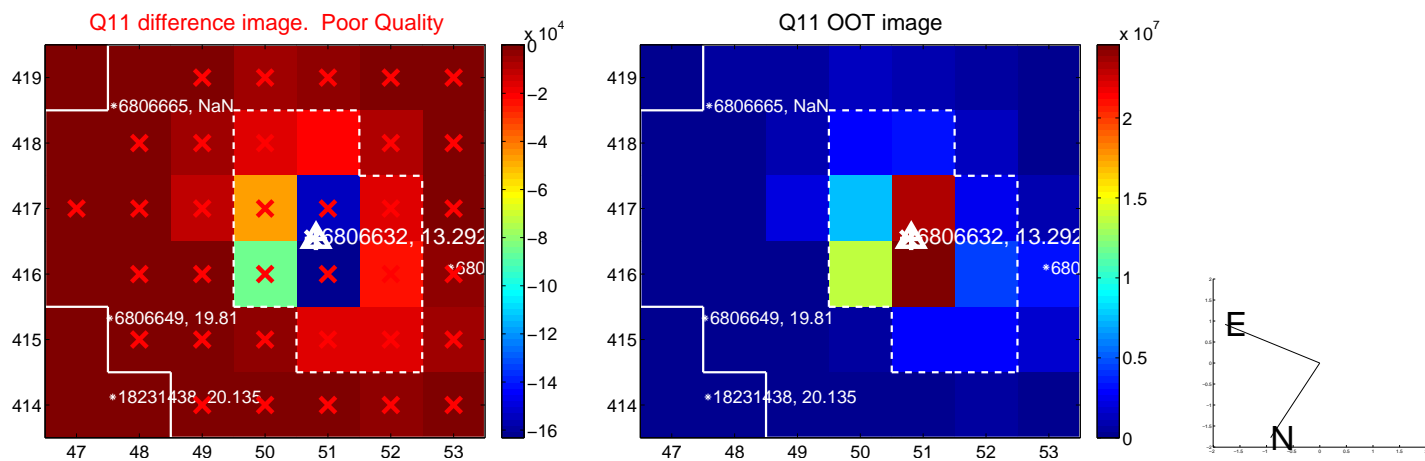
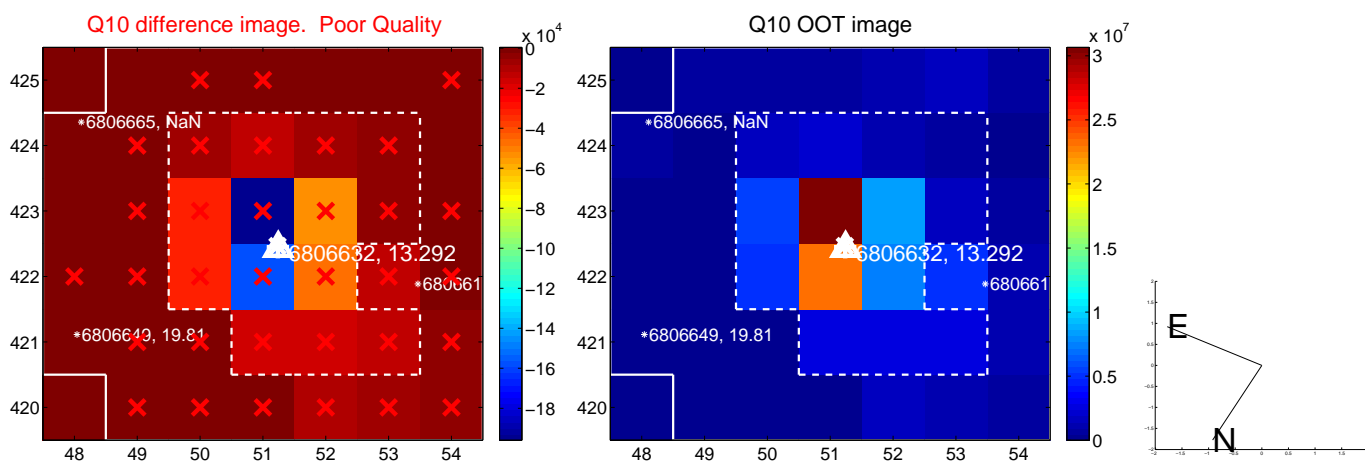
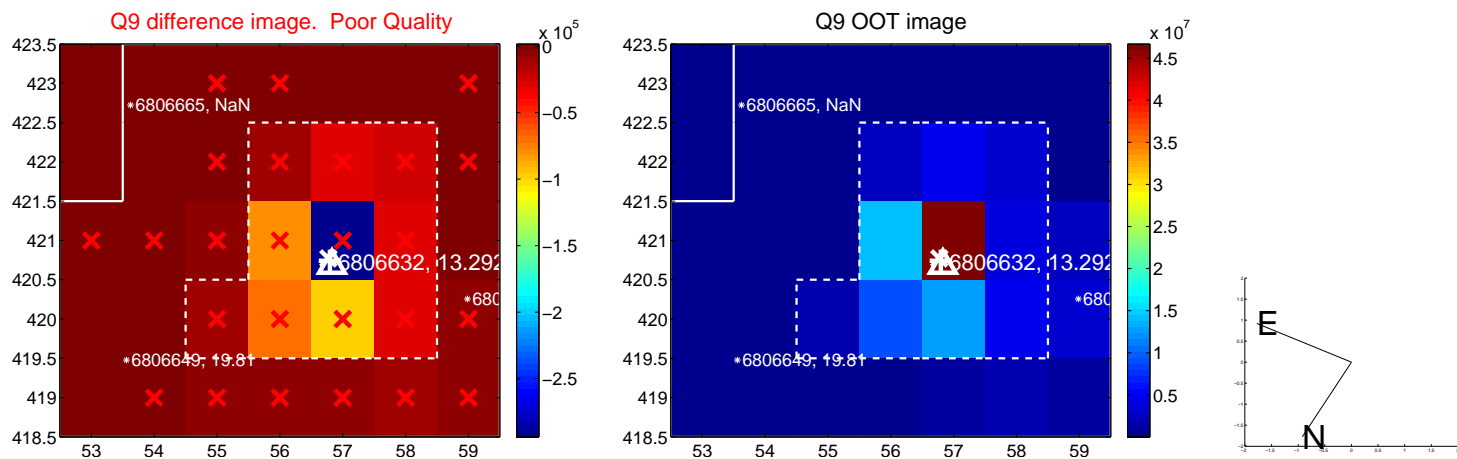


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

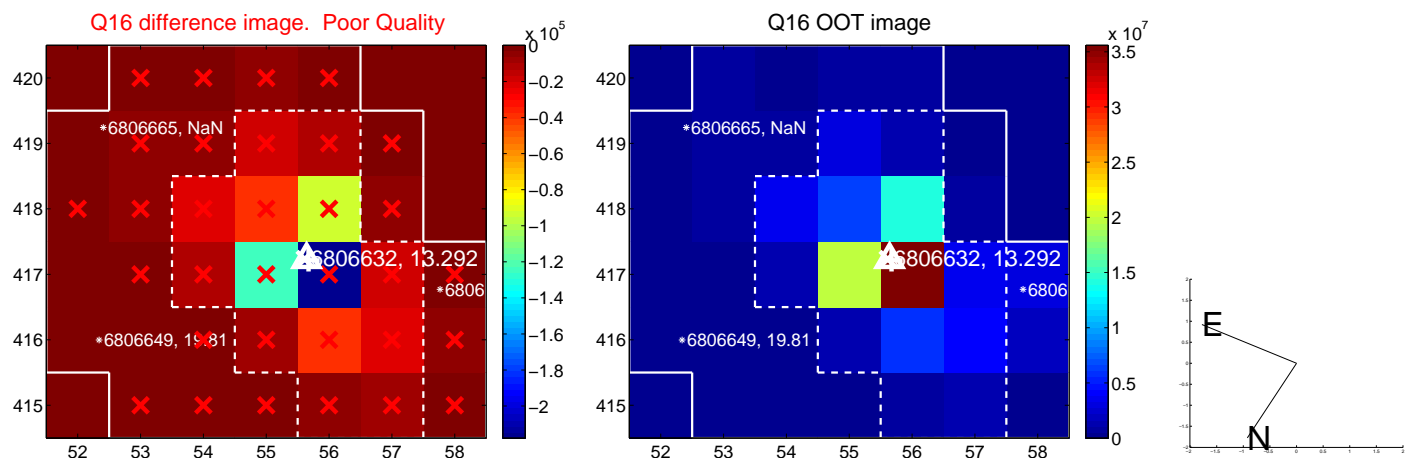
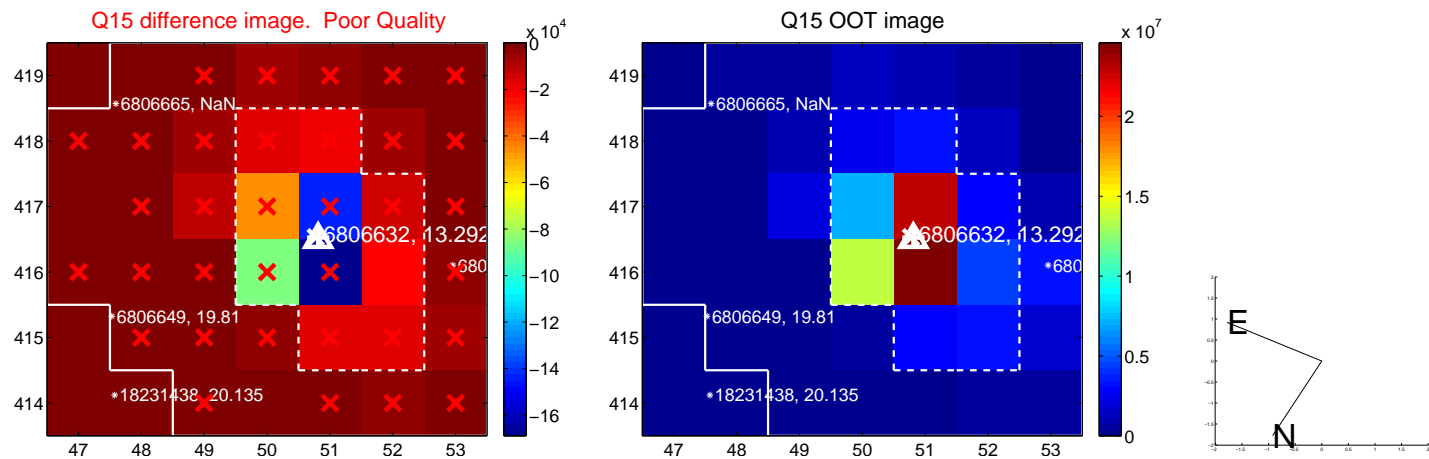
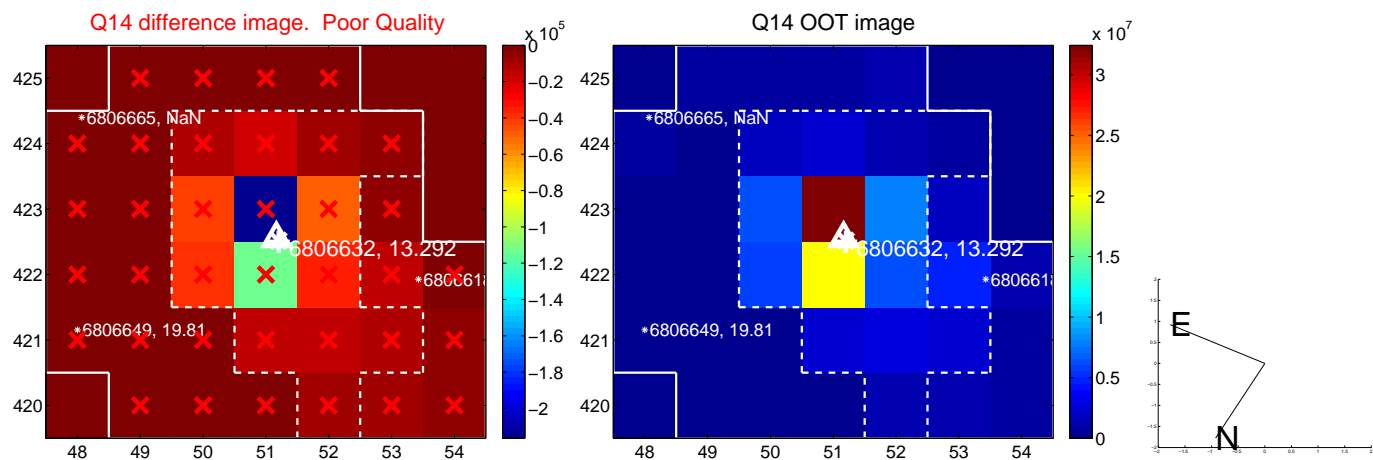
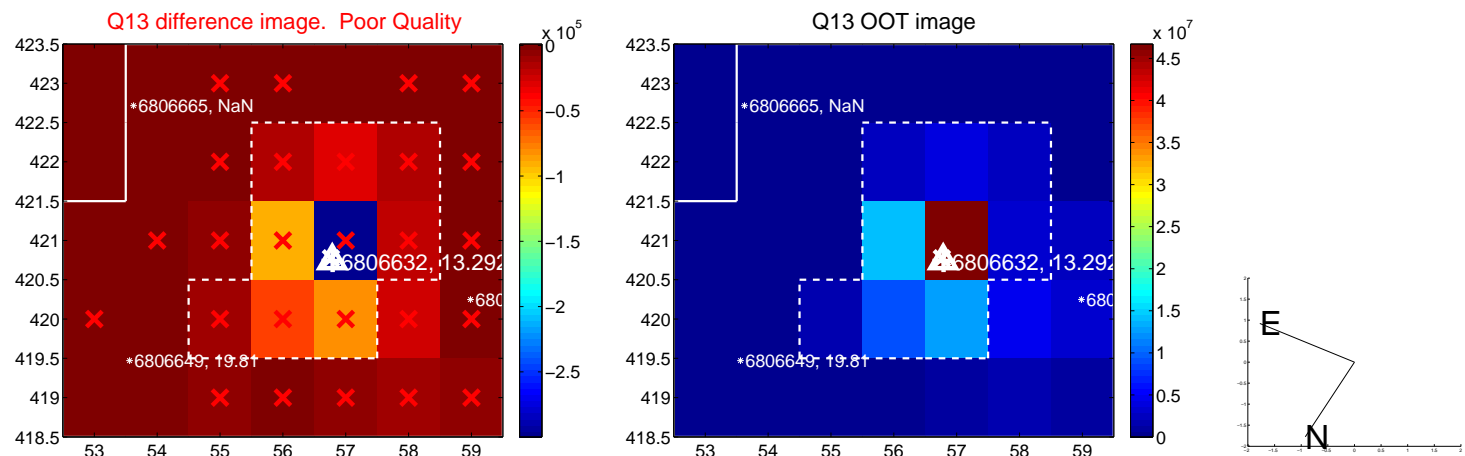
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



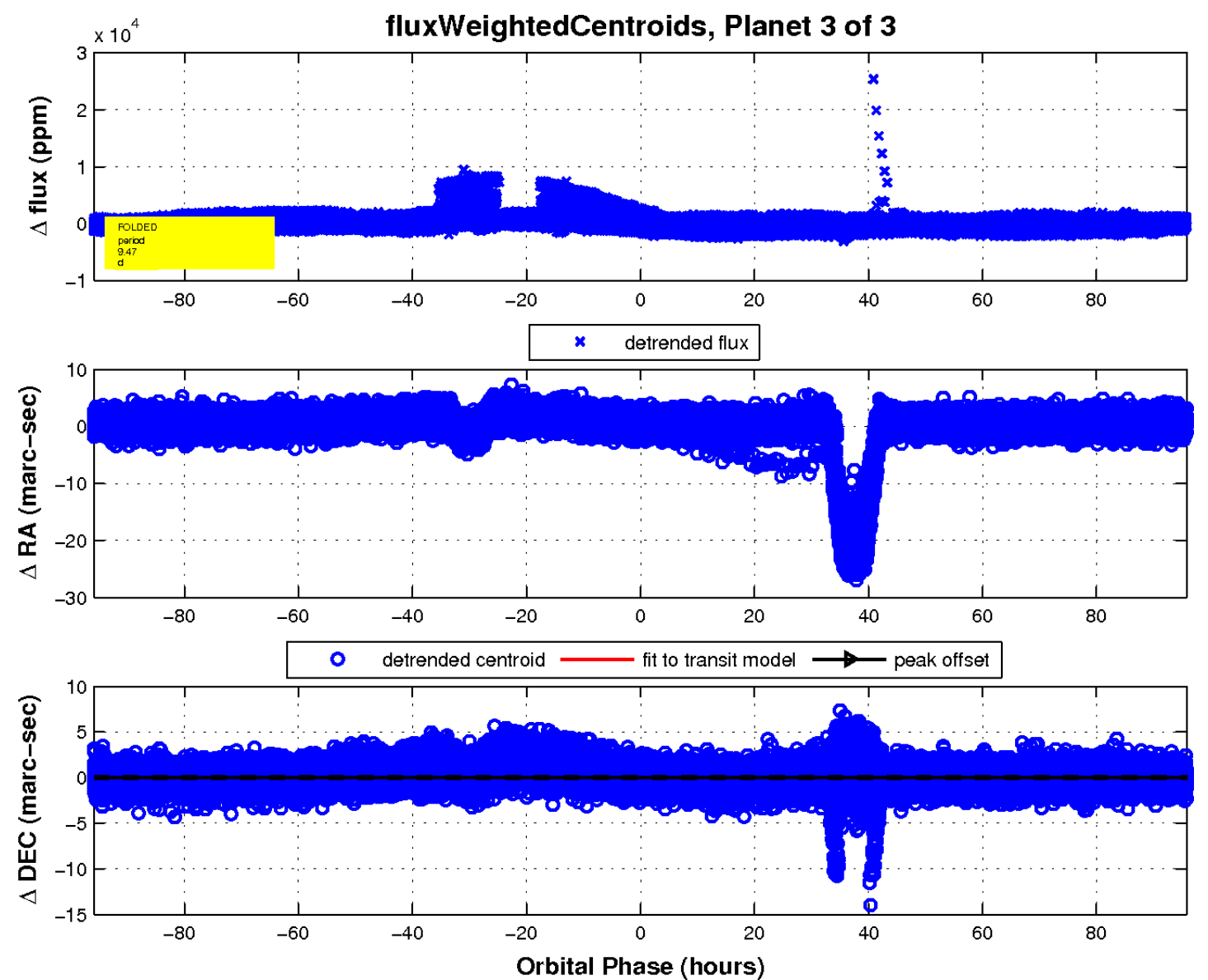
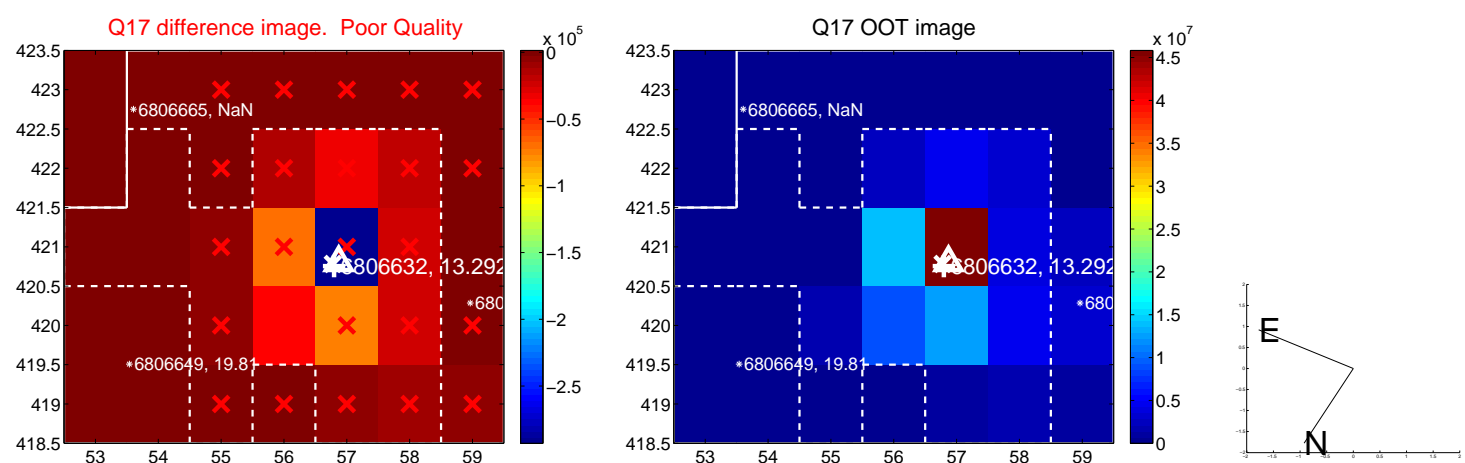
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

