

KIC 007049486

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})
007049486-01	OBS	6815.01	26.718351	138.054096	72172.8	8.212	4569.1	2888.7	1.29	5957	58.79	65.98
007049486-02	OBS	No	26.718417	156.039725	38318.4	9.530	2575.3	2521.1	1.29	5957	43.31	65.98
007049486-03	OBS	No	250.981212	163.411135	398.7	8.777	8.8	9.9	1.29	5957	5.05	3.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007049486-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007049486-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007049486-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

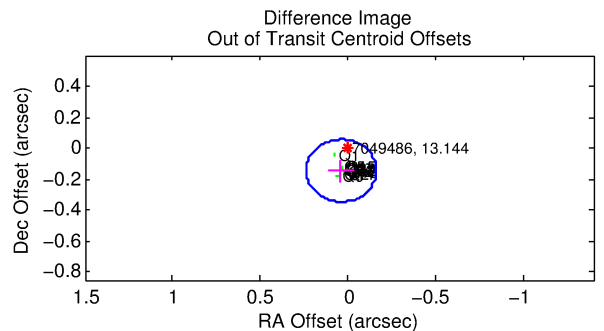
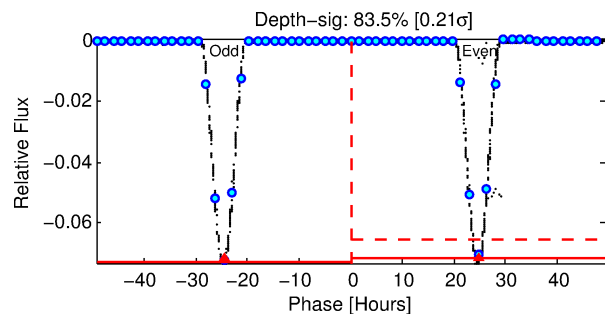
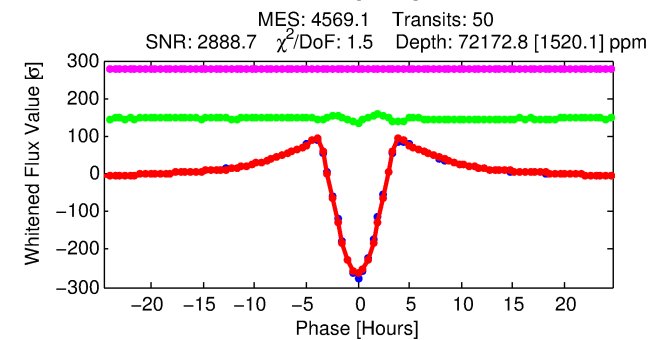
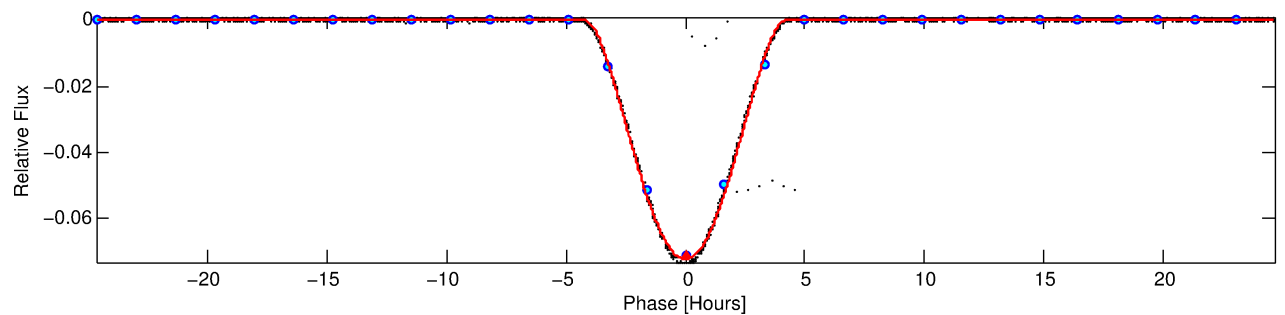
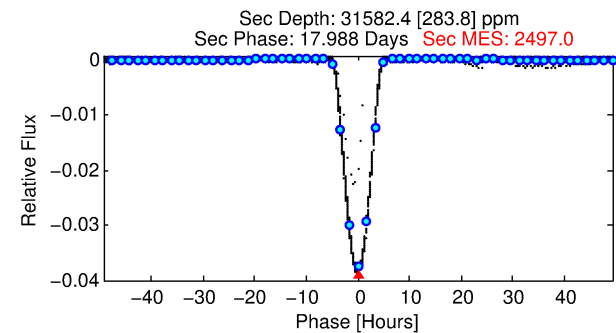
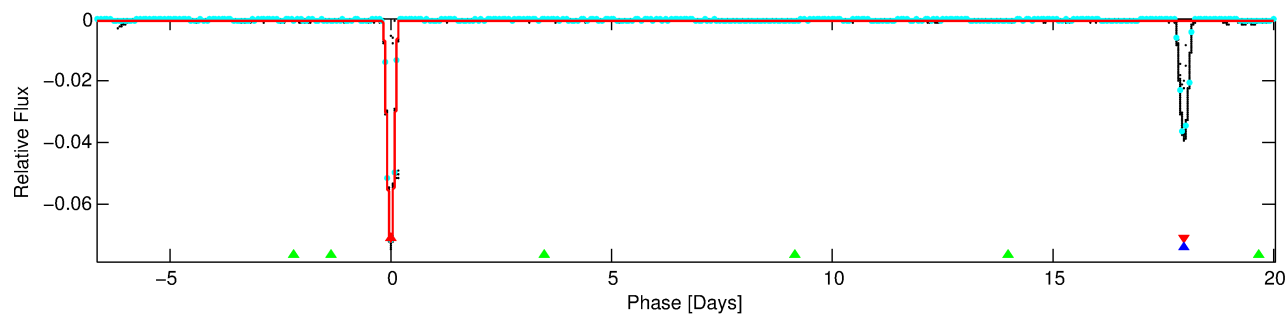
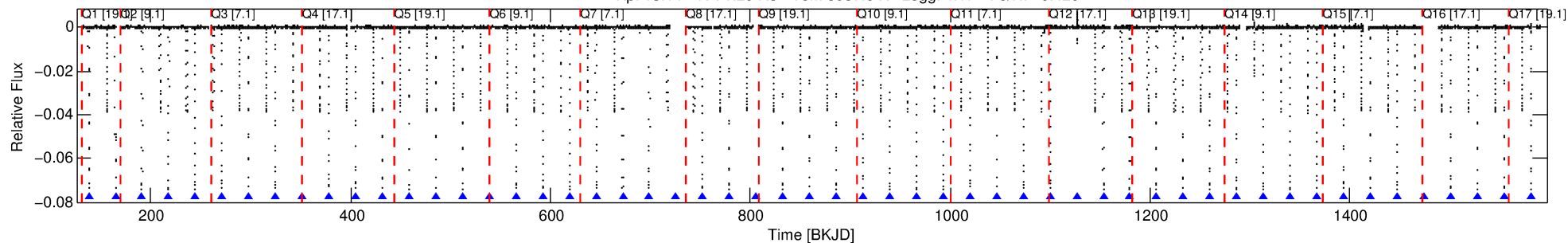
Ephemeris Match Information For 007049486-01

No Significant Match Found

DV One-Page Summary

KIC: 7049486 Candidate: 1 of 3 Period: 26.718 d
KOI: K06815.01 Corr: 0.995

Kp: 13.14 R*: 1.29 Rs Teff: 5957.0 K Logg: 4.17 Fe/H: -0.420



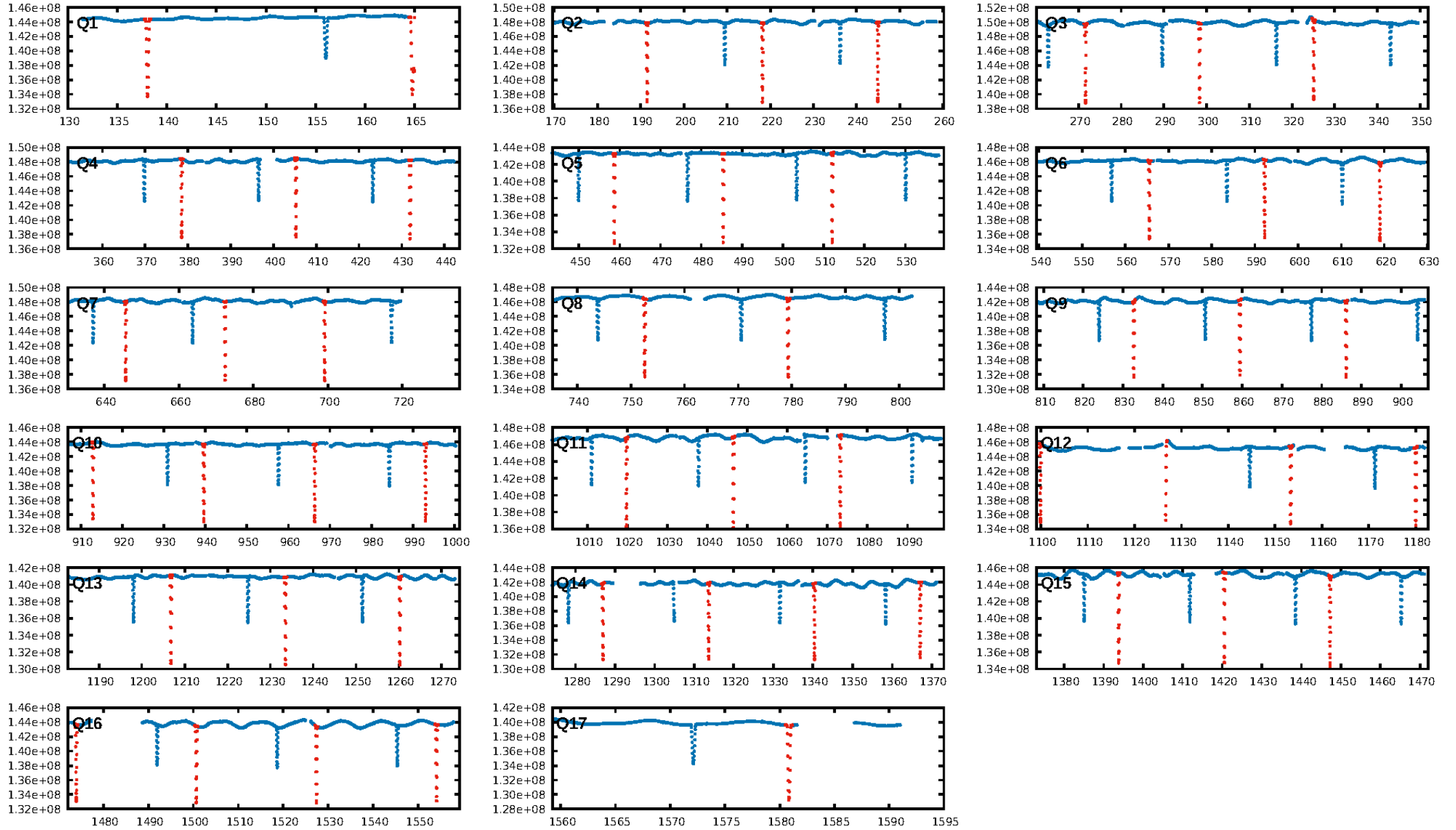
DV Fit Results:

Period = 26.71835 [0.00000] d
Epoch = 138.0541 [0.0000] BKJD
Rp/R* = 0.4189 [0.0166]
a/R* = 25.05 [0.03]
b = 1.00 [0.02]
Seff = 65.98 [34.69]
Teff = 727 [96] K
Rp = 58.79 [19.25] Re
a = 0.1682 [0.0532] AU
Ag = 142.17 [73.24] [1.93σ]
Teffp = 3880 [149] K [17.80σ]

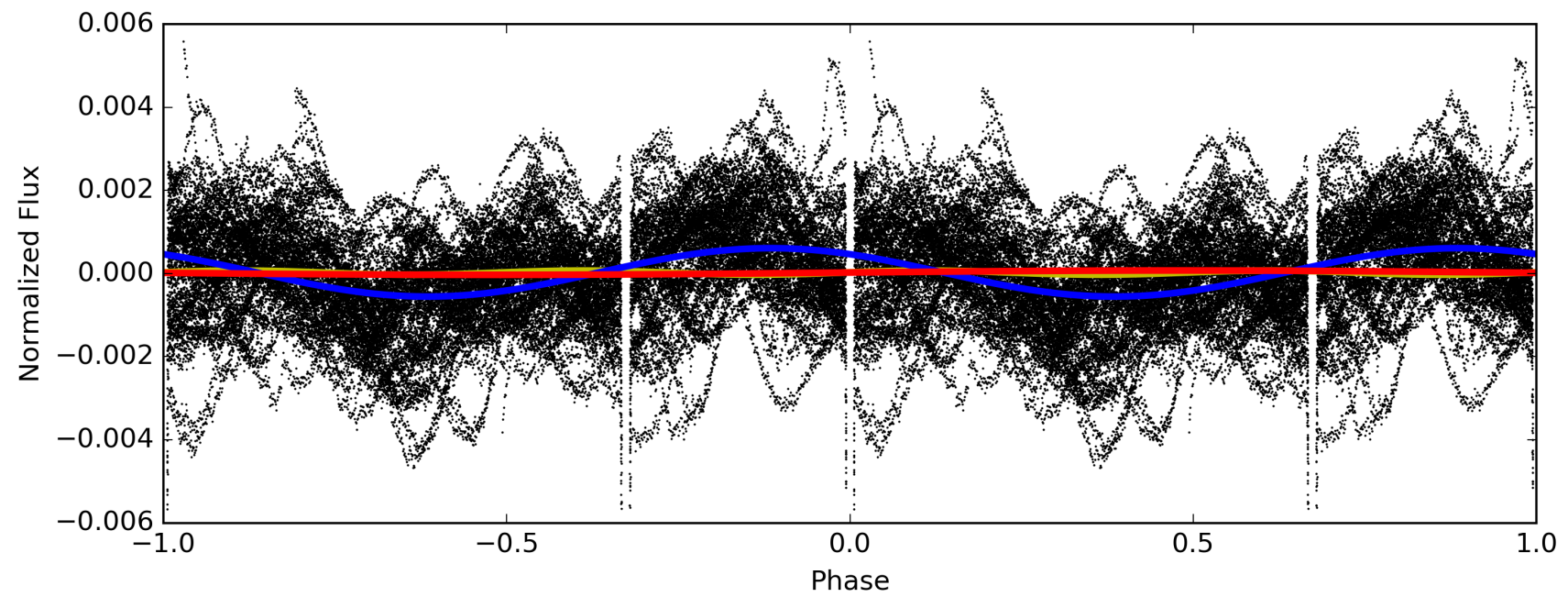
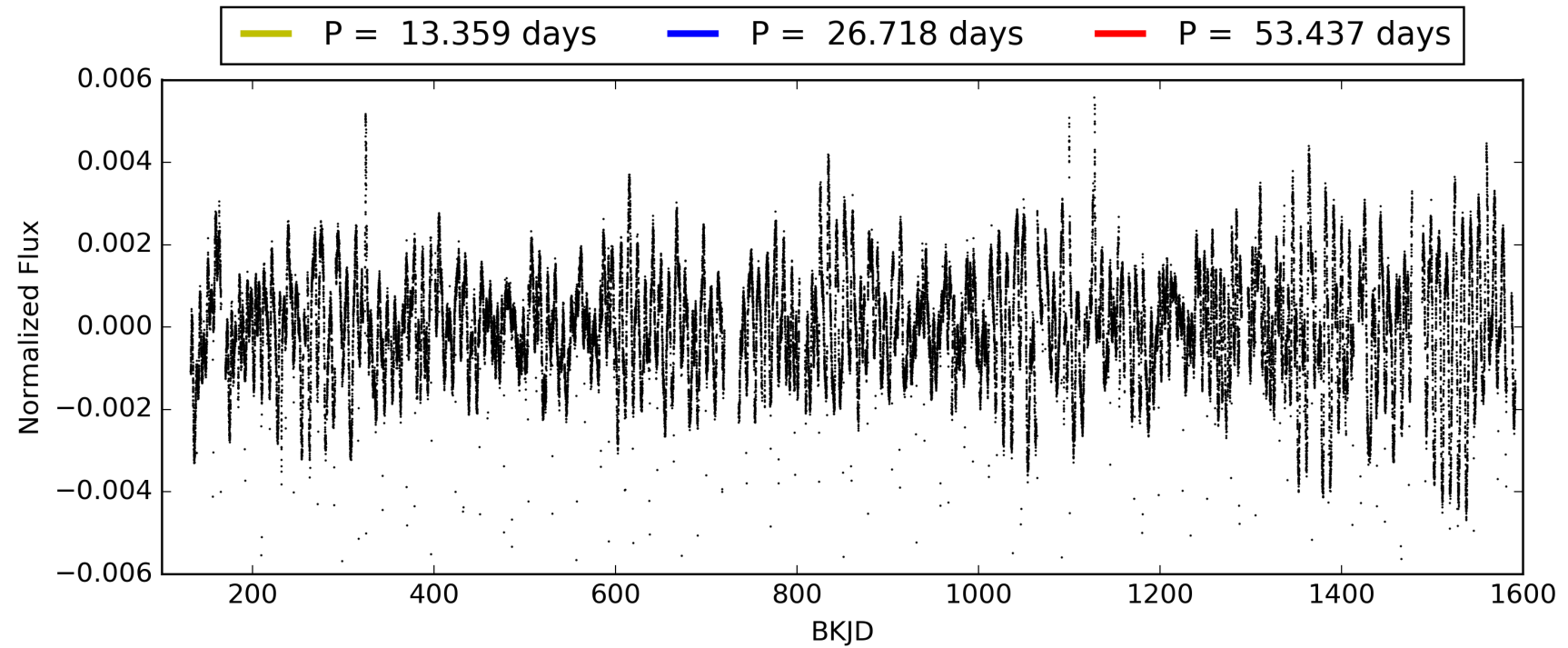
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 63.7%
ModelChiSquareGoF-sig: 98.5%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [47/47]
GhostDiagnostic-chr: 3.115
Centroid-sig: 0.0%
Centroid-so: 0.148 arcsec [114.34σ]
OotOffset-rm: 0.149 arcsec [2.23σ]
KicOffset-rm: 0.143 arcsec [2.11σ]
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]

TCE 007049486-01, PDC Light Curves

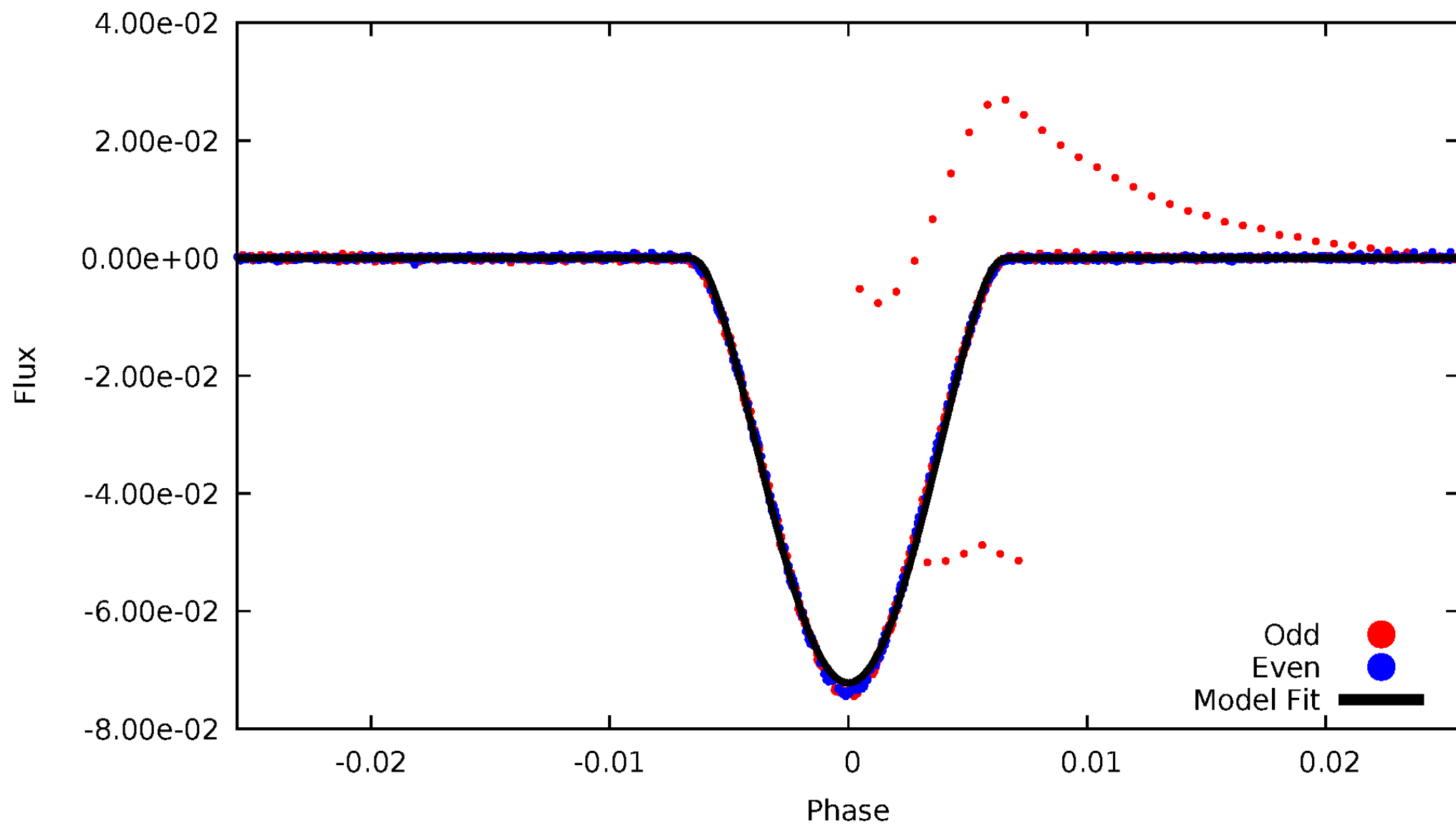


TCE 007049486-01



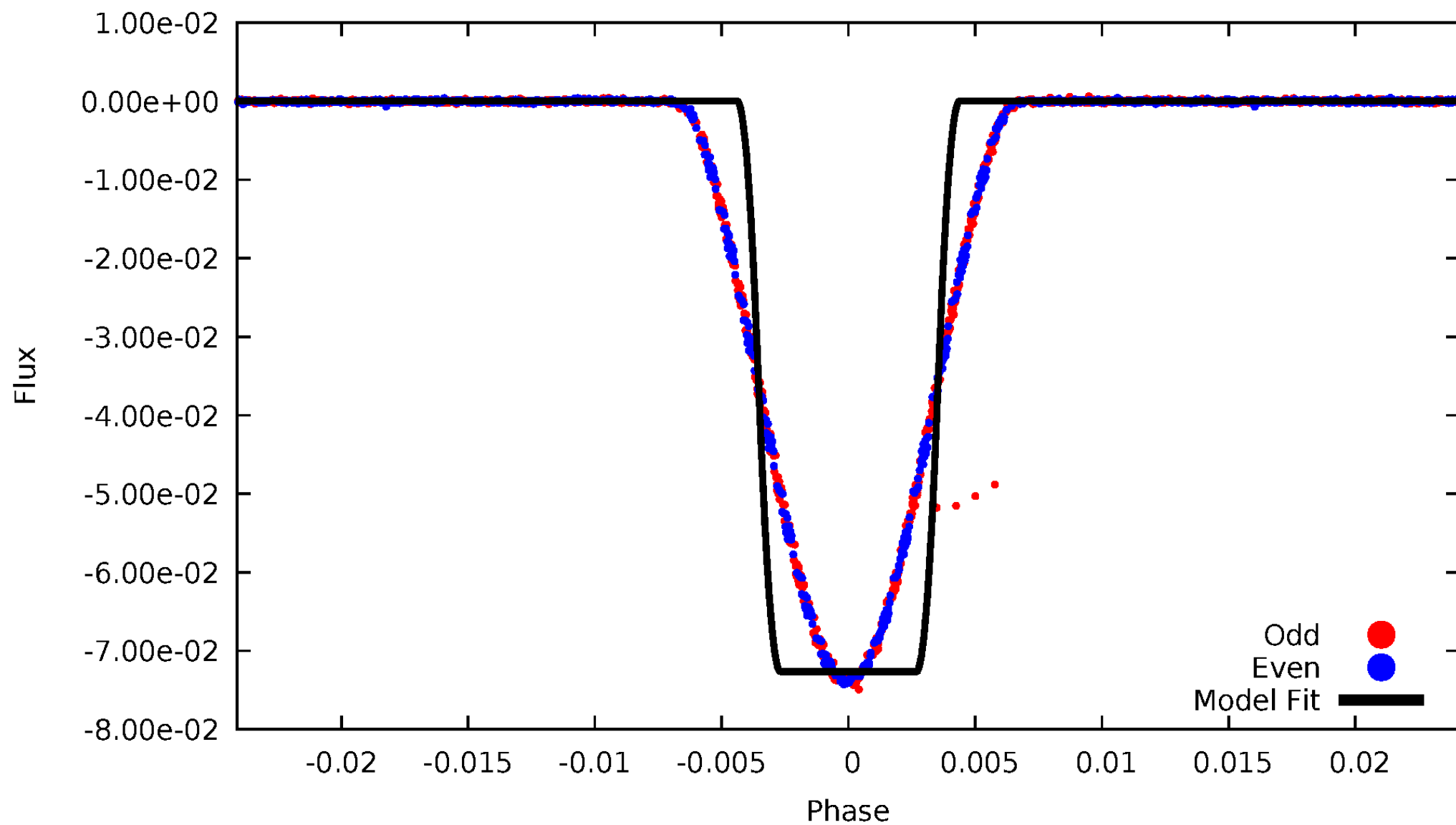
DV Odd/Even

TCE 007049486-01



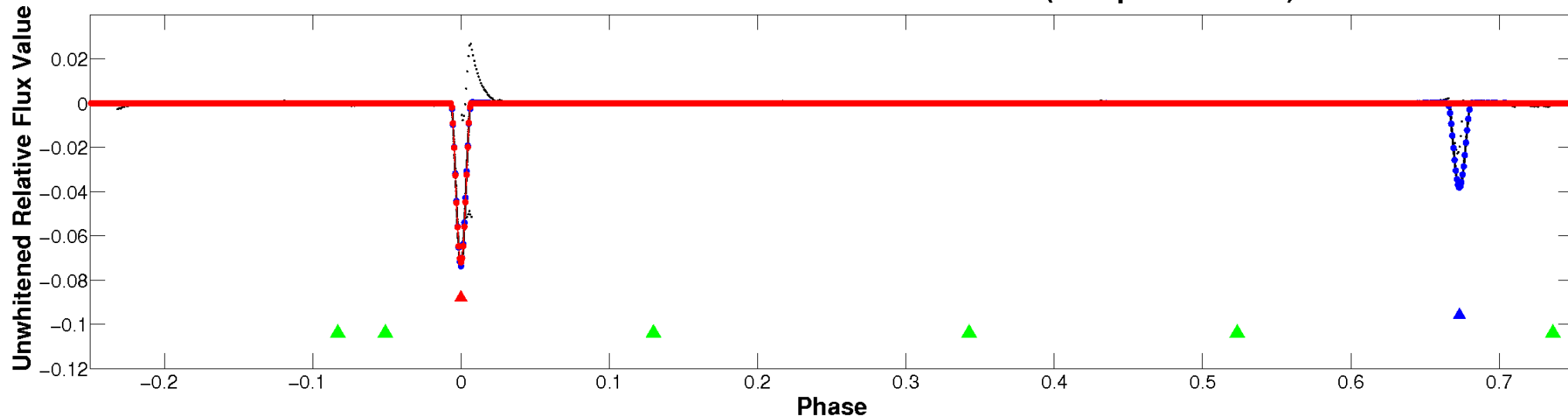
ALT Odd/Even

TCE 007049486-01

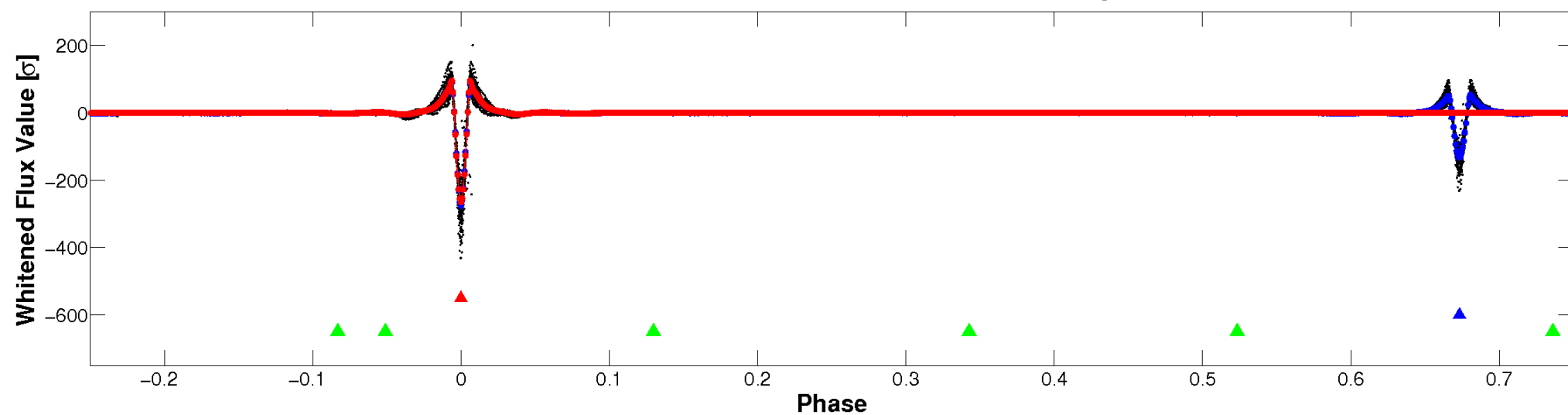


Non-Whitened Vs. Whitened Light Curve

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

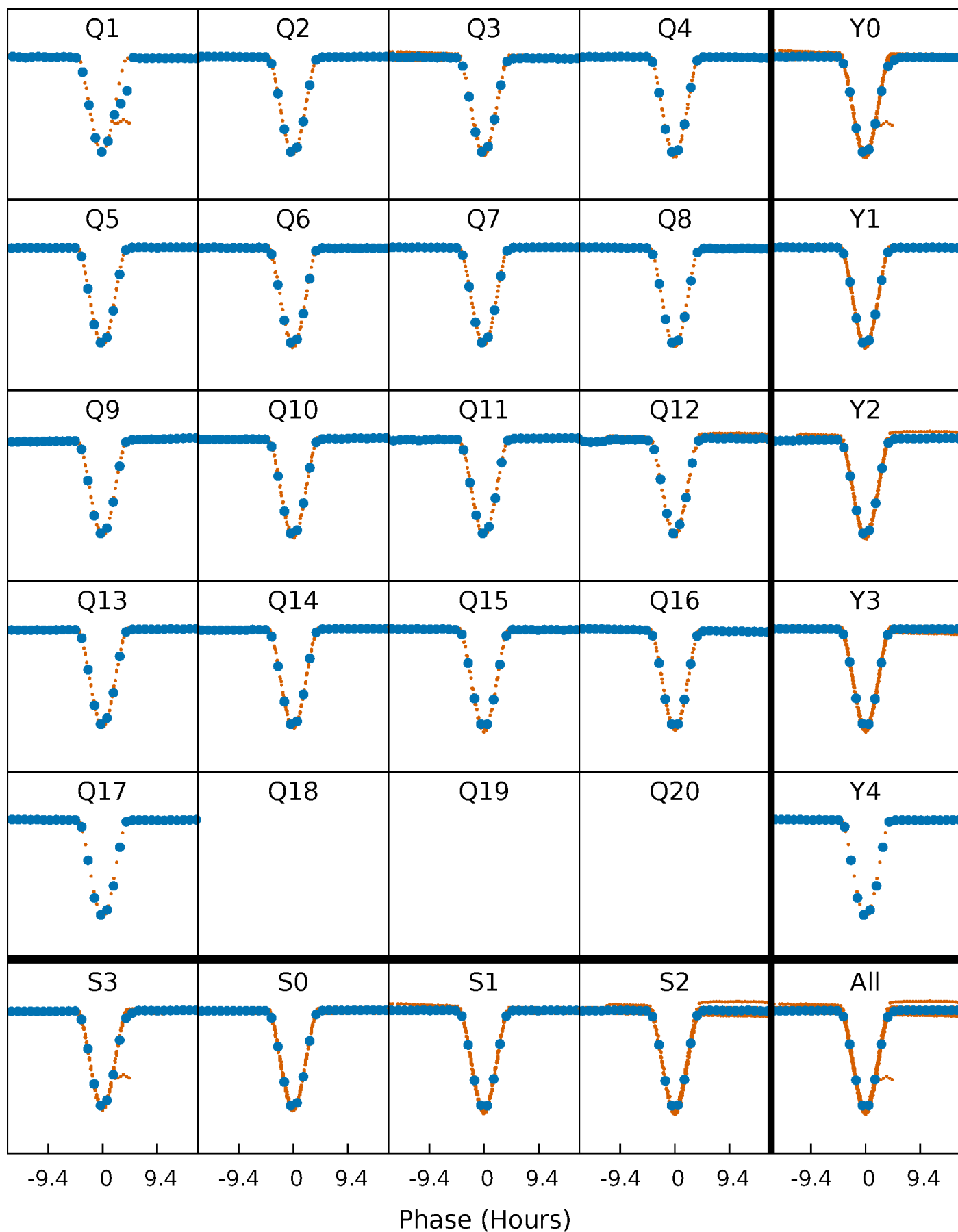


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



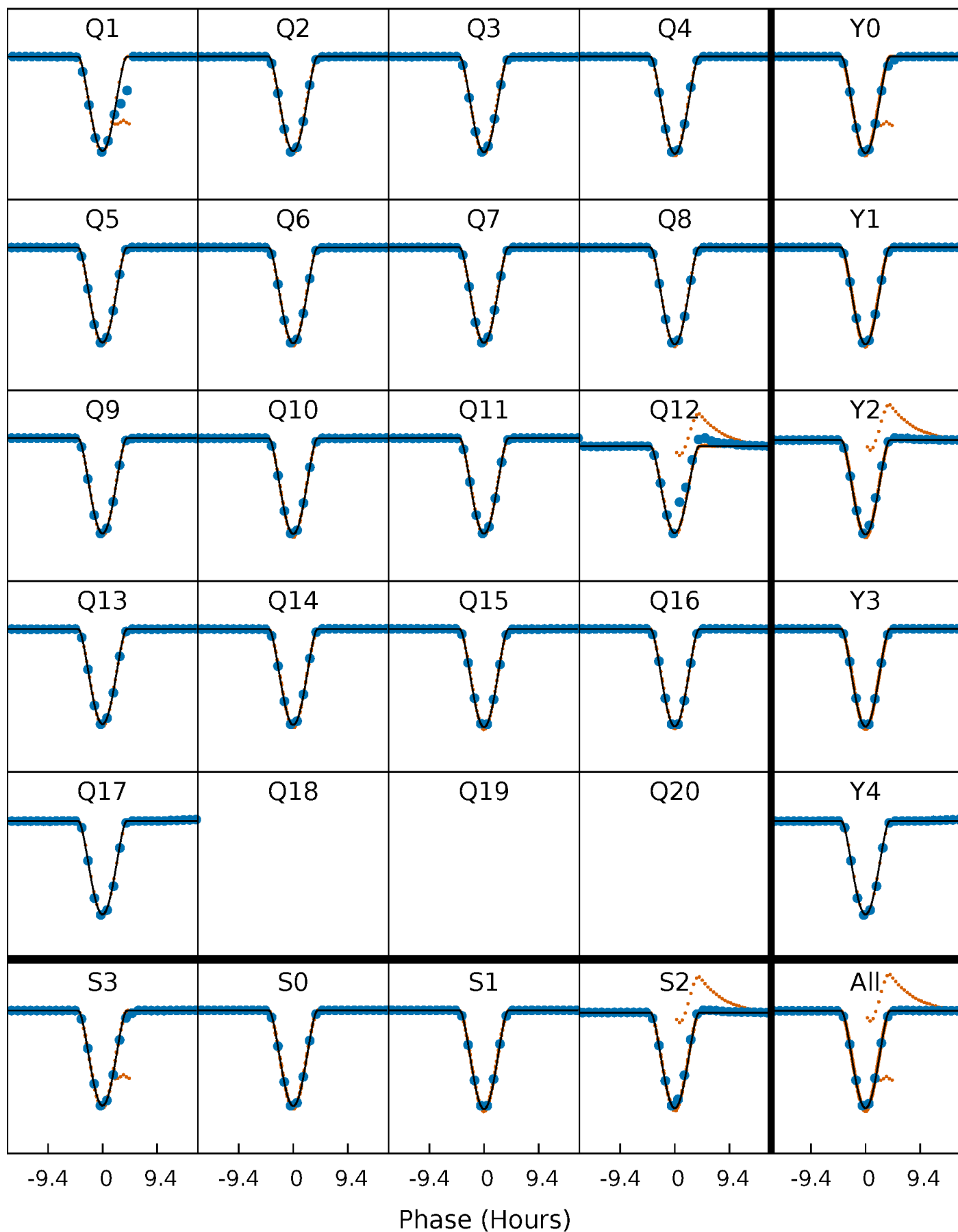
PDC Quarter-Phased Transit Curves

TCE 007049486-01 P= 26.718351 Days $T_0=138.054096$ (BKJD)



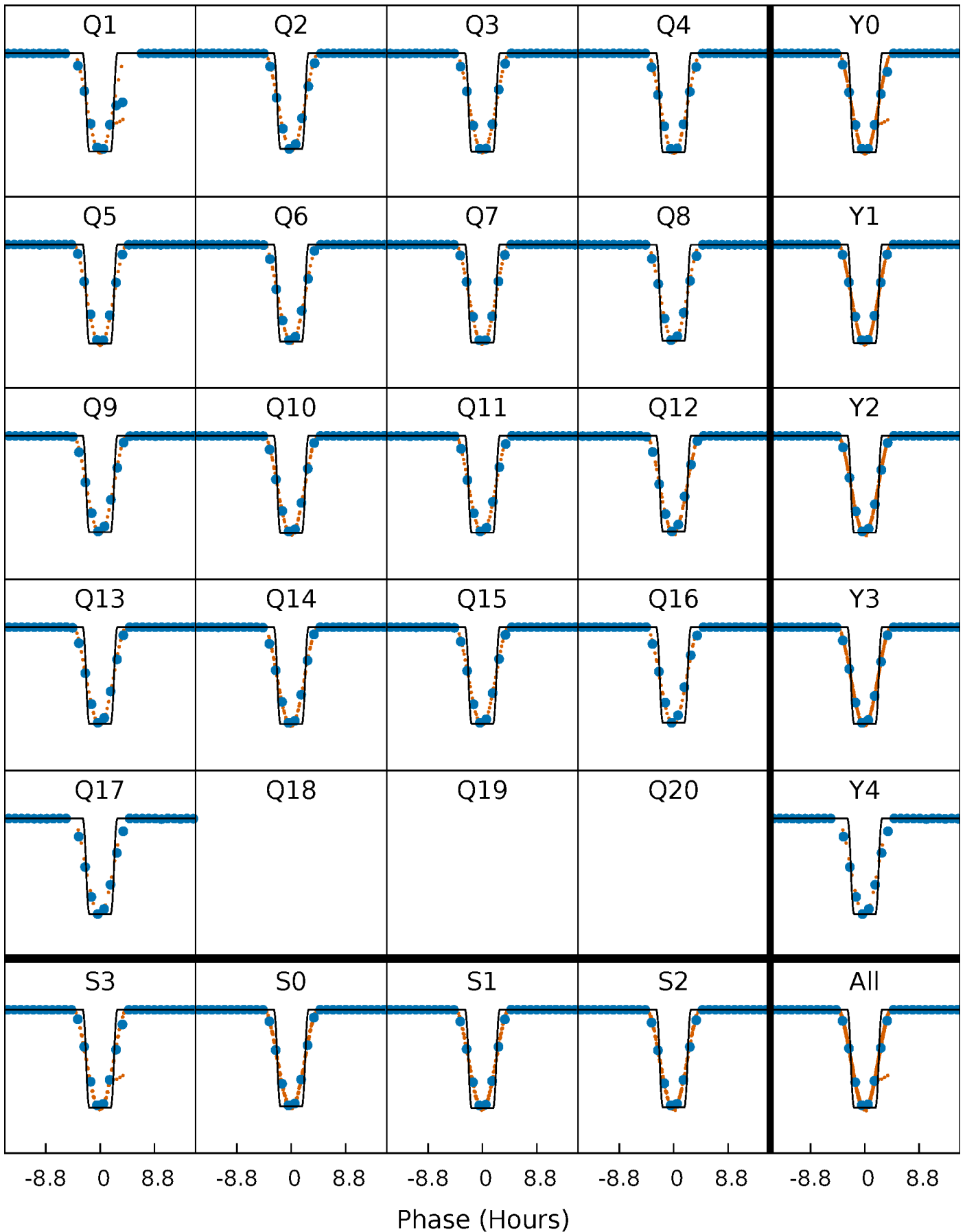
DV Quarter-Phased Transit Curves

TCE 007049486-01 P= 26.718351 Days $T_0=138.054096$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

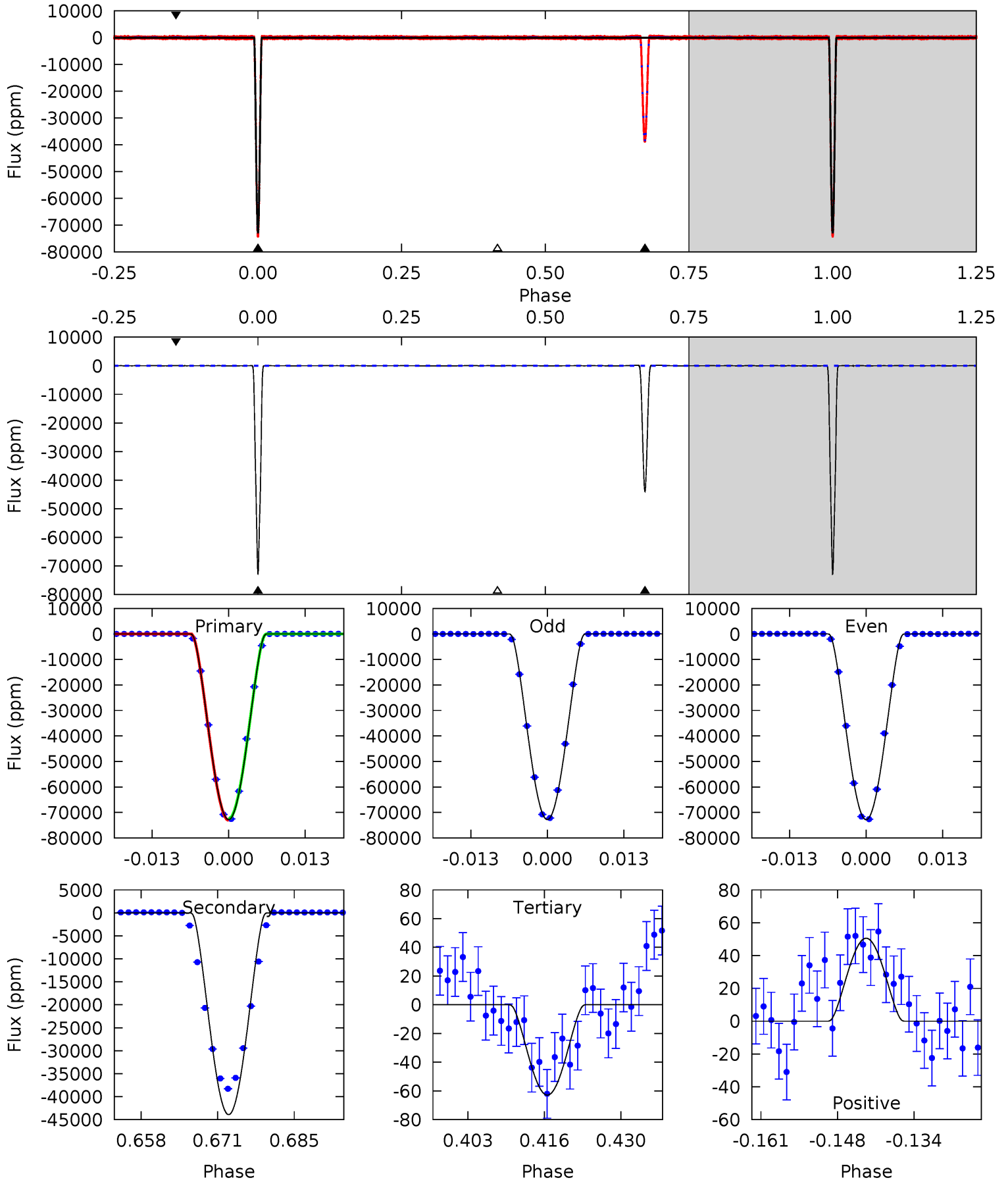
TCE 007049486-01 P= 26.718517 Days $T_0=138.049587$ (BKJD)



DV Model-Shift Uniqueness Test

007049486-01, P = 26.718351 Days, E = 111.335745 Days

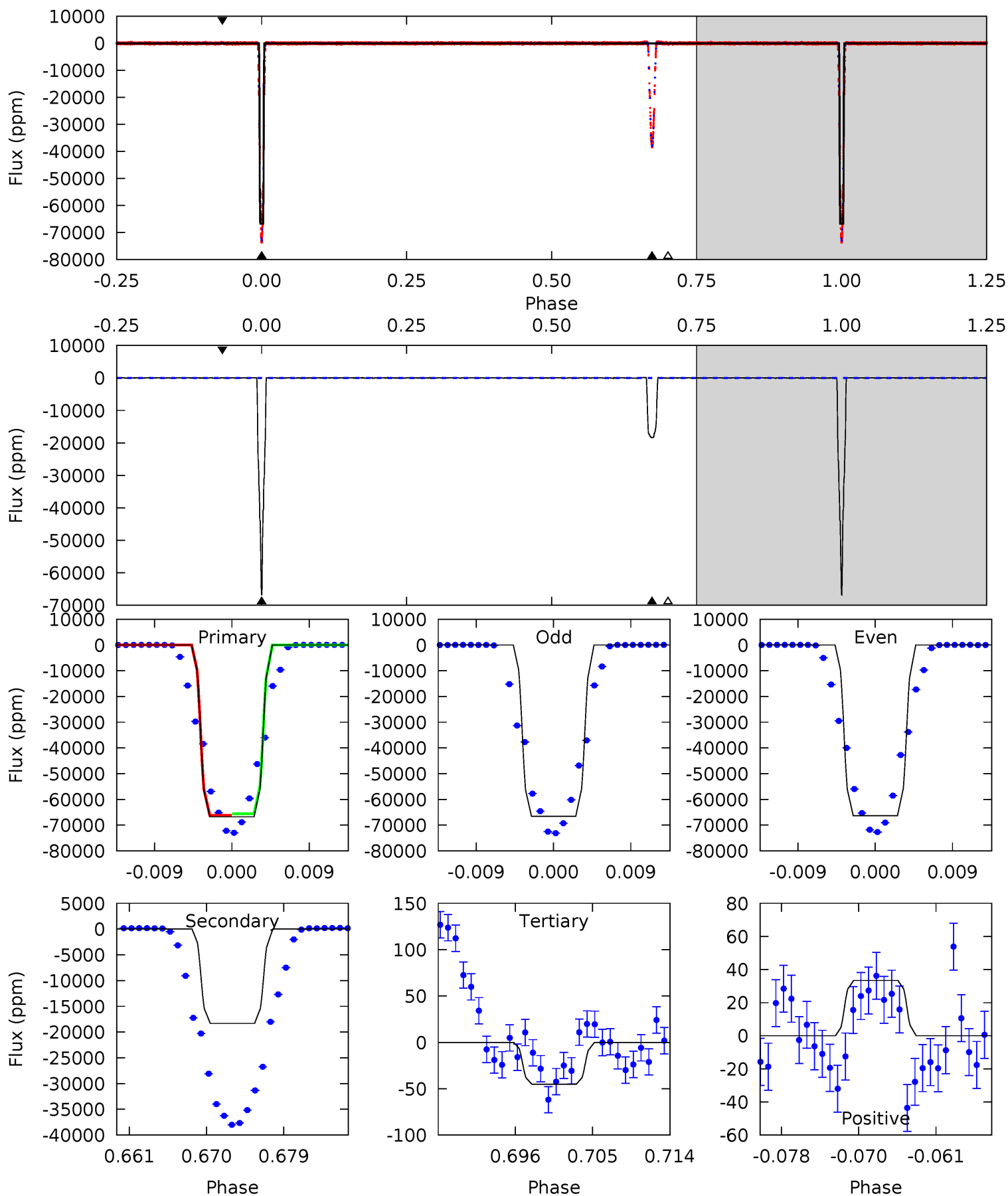
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11039	6661	9.54	7.67	4.97	2.47	4.79	11030	11032	6652	6654	3.68	0.98	0.00	2.07



Alt Model-Shift Uniqueness Test

007049486-01, P = 26.718517 Days, E = 111.331070 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8623	2368	5.85	4.31	5.05	2.62	13.8	8617	8618	2362	2364	15.9	1.00	0.00	0



Stellar Parameters For KIC 007049486

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5957^{+196}_{-196}	$4.168^{+0.300}_{-0.175}$	$-0.420^{+0.300}_{-0.300}$	$1.286^{+0.380}_{-0.418}$	$0.888^{+0.130}_{-0.087}$	$0.588^{+1.114}_{-0.302}$
	+3%/-3%	+7%/-4%	+71%/-71%	+30%/-33%	+15%/-10%	+190%/-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 007049486-01 / KOI 6815.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-43918 ± 7	$58.39^{+9.25}_{-9.78}$	1006^{+80}_{-90}	4458^{+137}_{-140}	214^{+88}_{-53}
Alt.	-18329 ± 8	$37.43^{+6.45}_{-6.51}$	1007^{+83}_{-85}	4442^{+152}_{-153}	208^{+99}_{-54}

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 $A_{obs} \gg 1.0$

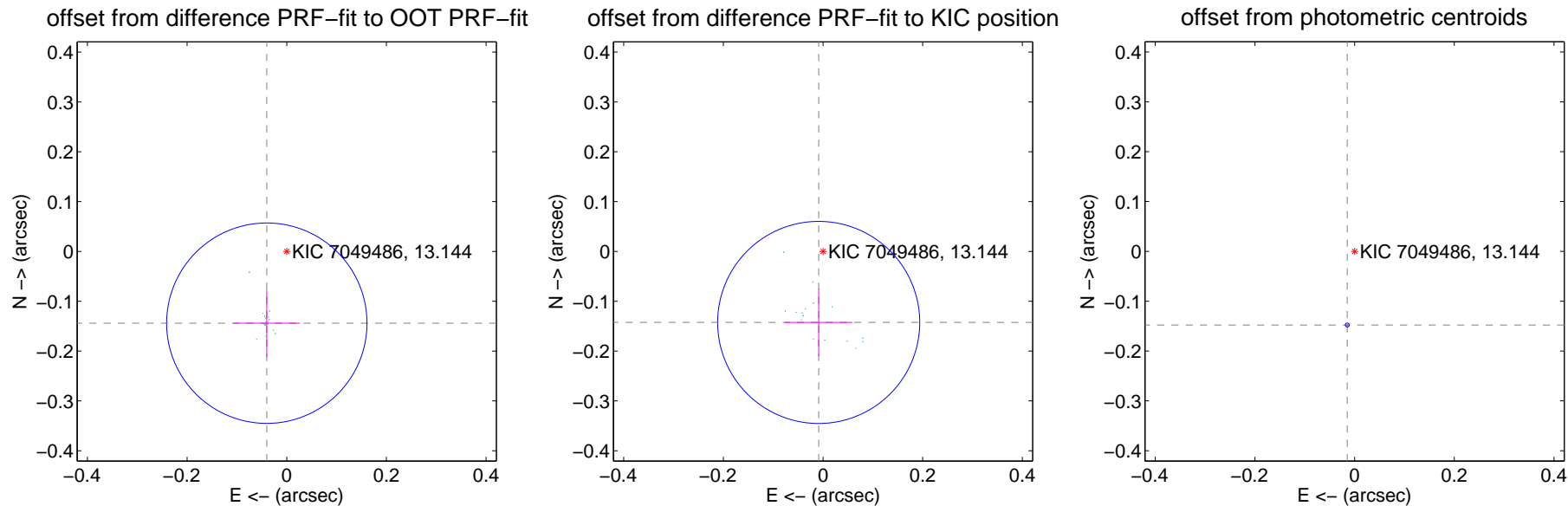
DV Centroid Data

Supplemental centroid analysis for 007049486-01. Kepler magnitude: 13.14. Transit SNR 2888.71

There are 17 quarters with good PRF difference image offsets

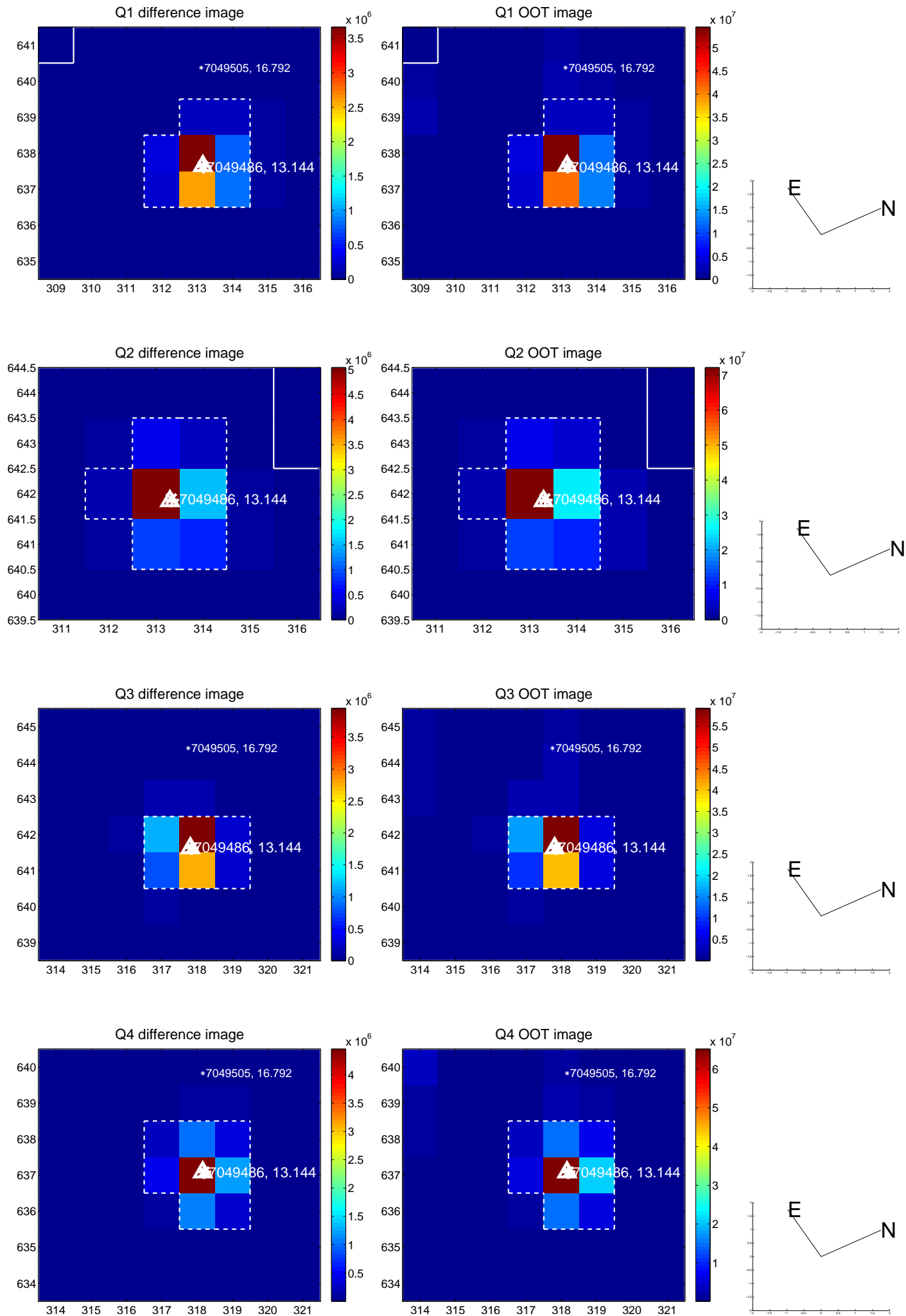
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.149 ± 0.067	2.23	0.040 ± 0.067	-0.144 ± 0.067
PRF-fit source offset from KIC position	0.143 ± 0.068	2.11	0.009 ± 0.068	-0.143 ± 0.068
photometric centroid source offset	0.15 ± 0.00	114.34	0.01 ± 0.00	-0.15 ± 0.00

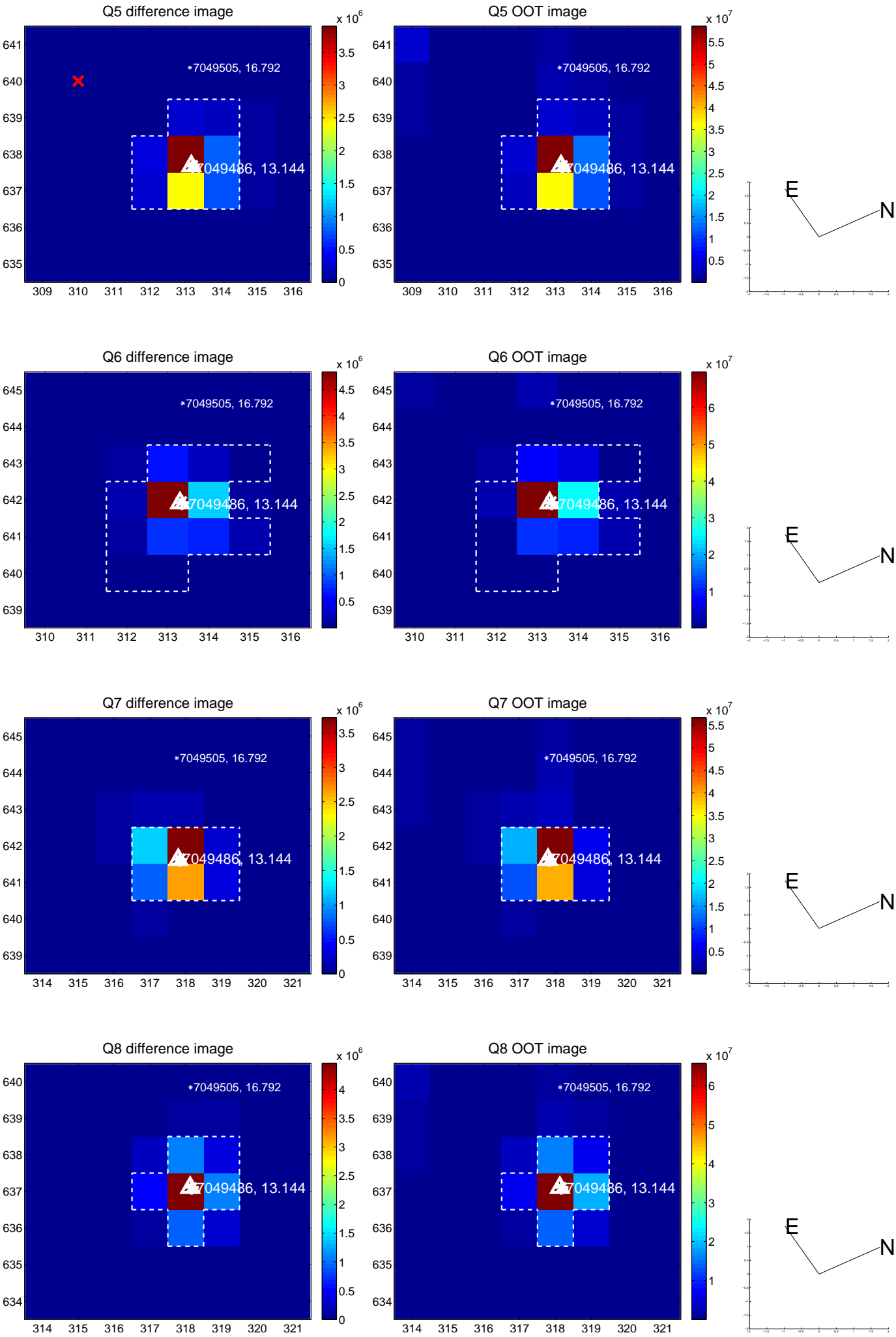


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

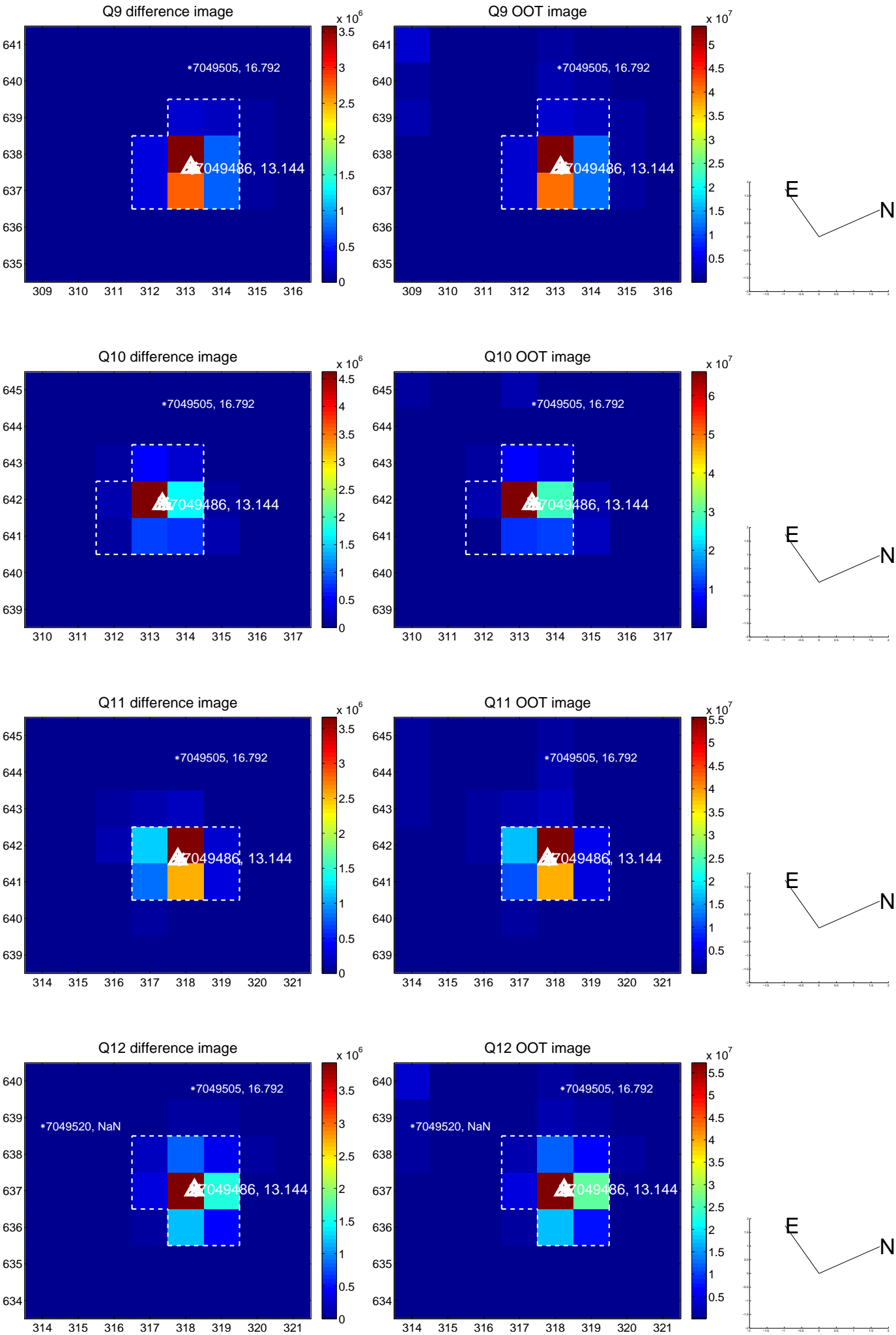
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



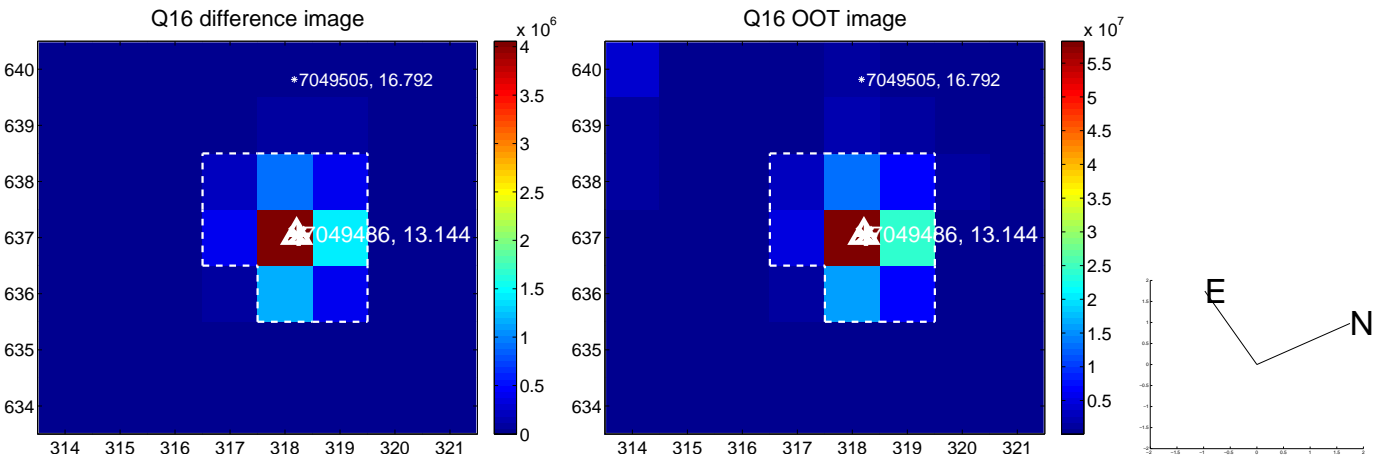
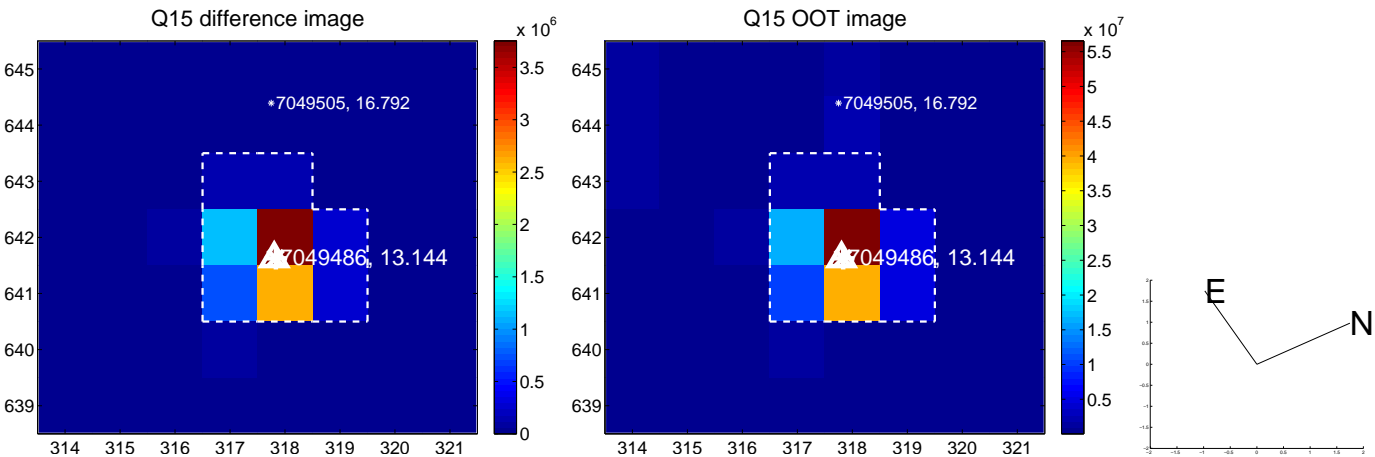
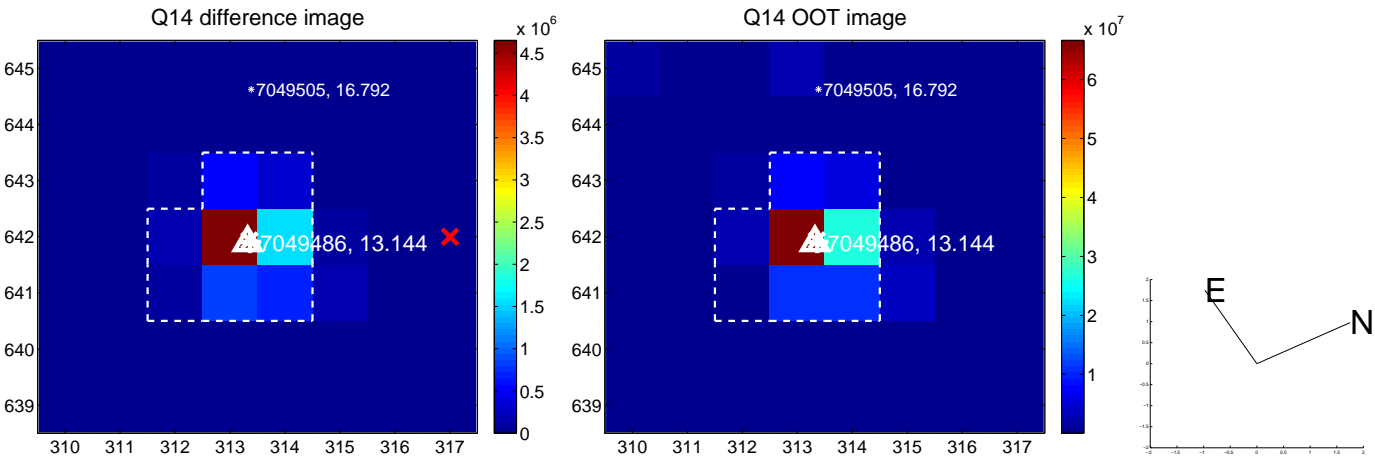
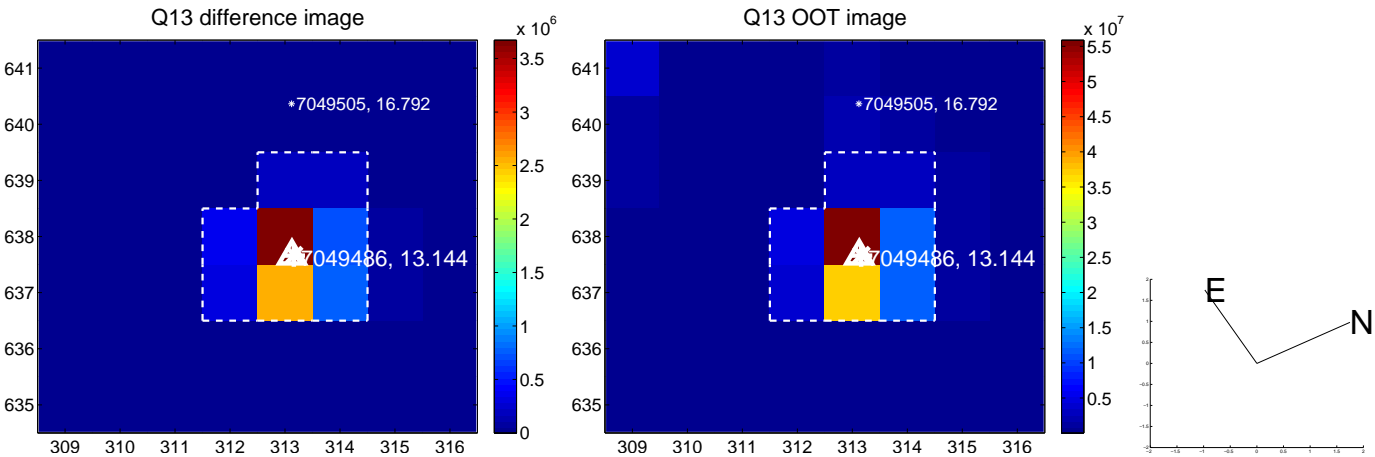
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



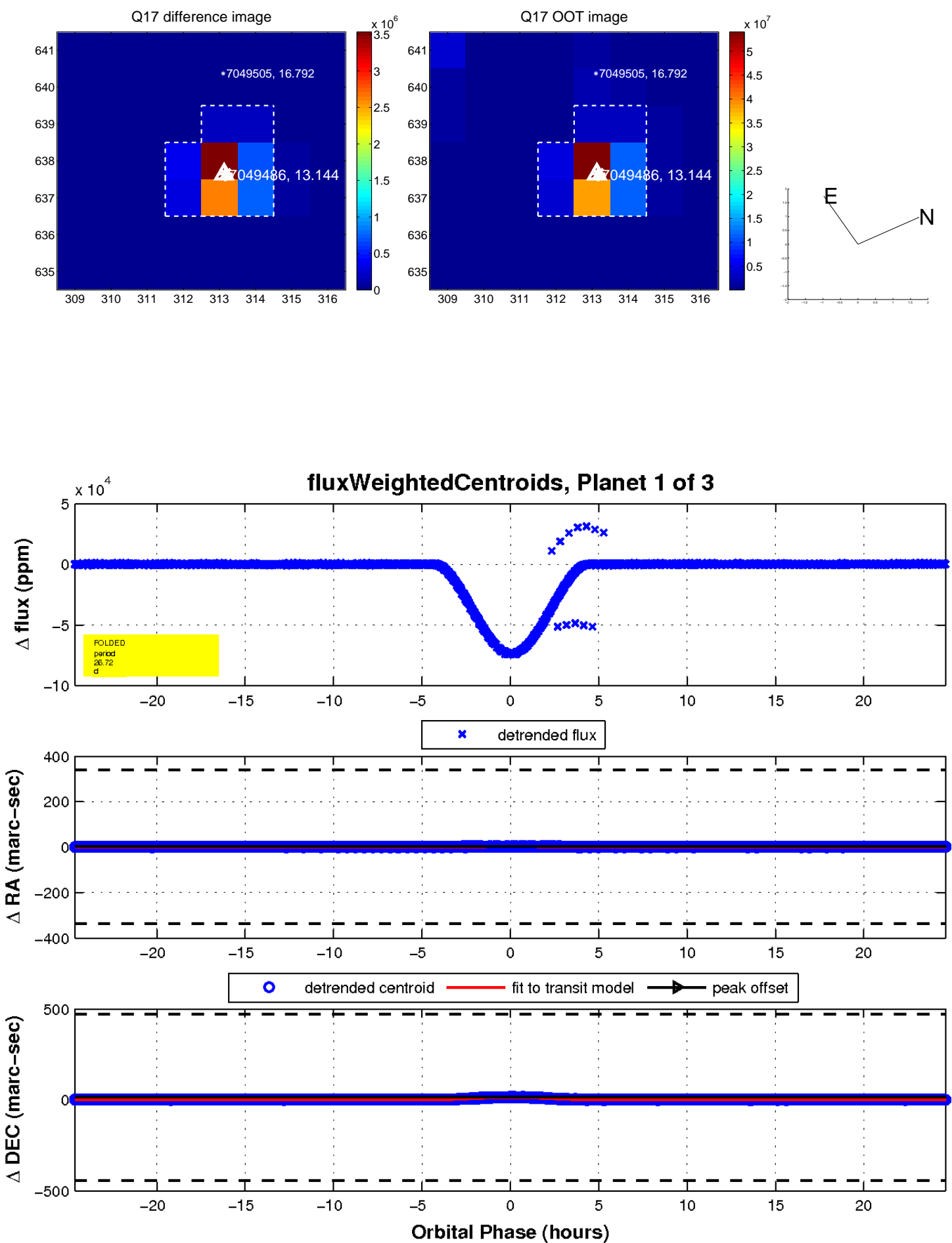
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

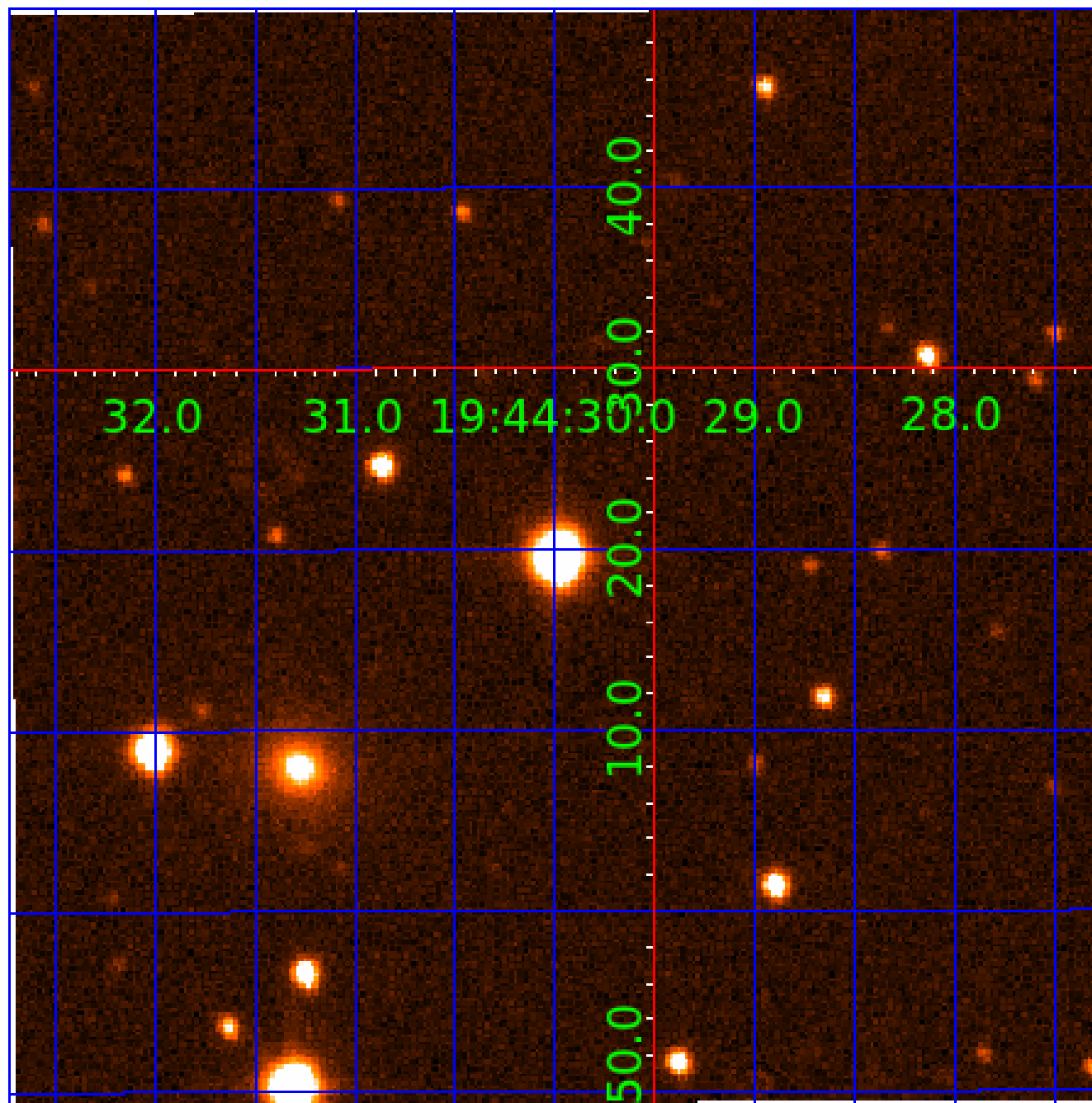


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007049486

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})
007049486-01	OBS	6815.01	26.718351	138.054096	72172.8	8.212	4569.1	2888.7	1.29	5957	58.79	65.98
007049486-02	OBS	No	26.718417	156.039725	38318.4	9.530	2575.3	2521.1	1.29	5957	43.31	65.98
007049486-03	OBS	No	250.981212	163.411135	398.7	8.777	8.8	9.9	1.29	5957	5.05	3.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007049486-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007049486-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007049486-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

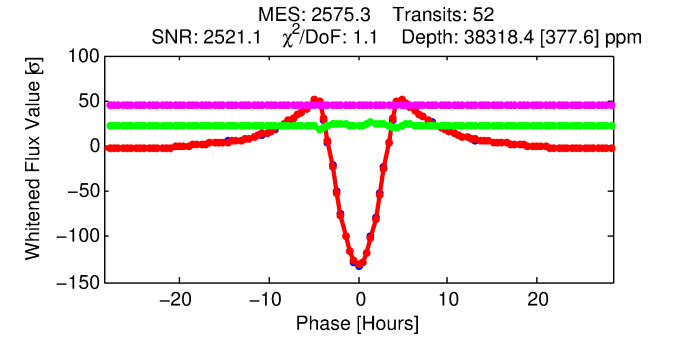
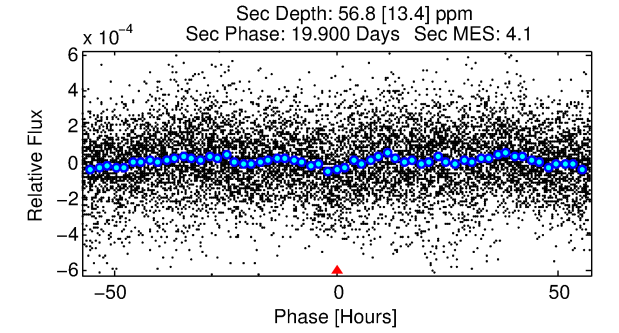
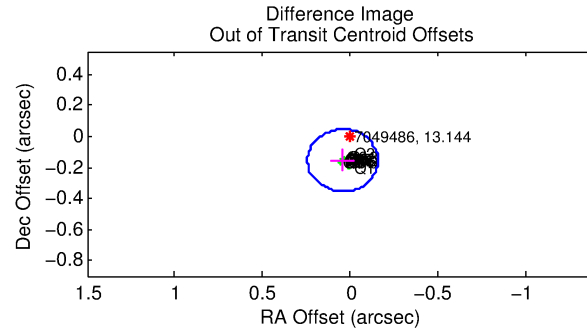
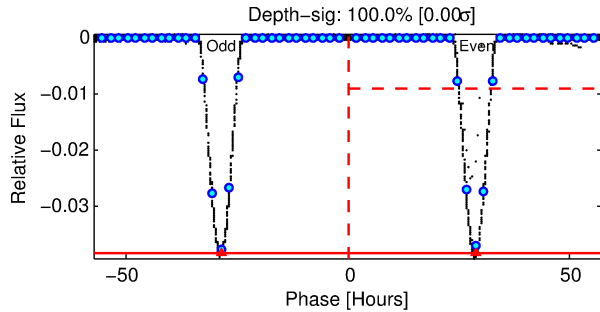
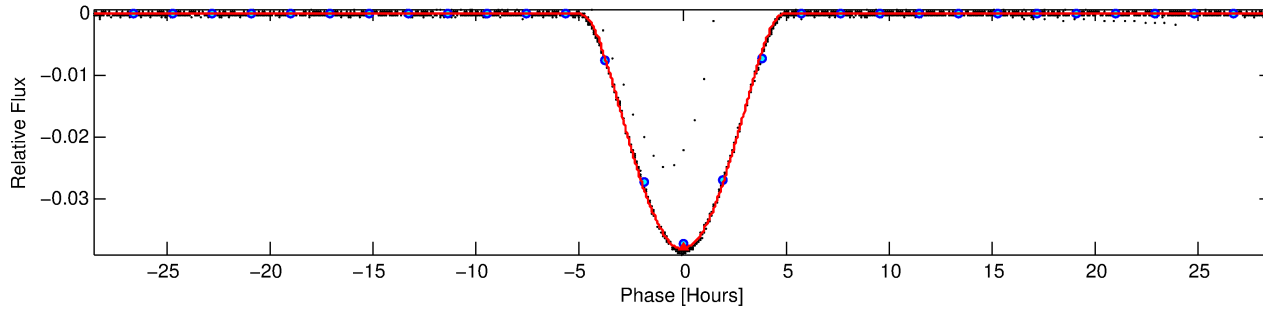
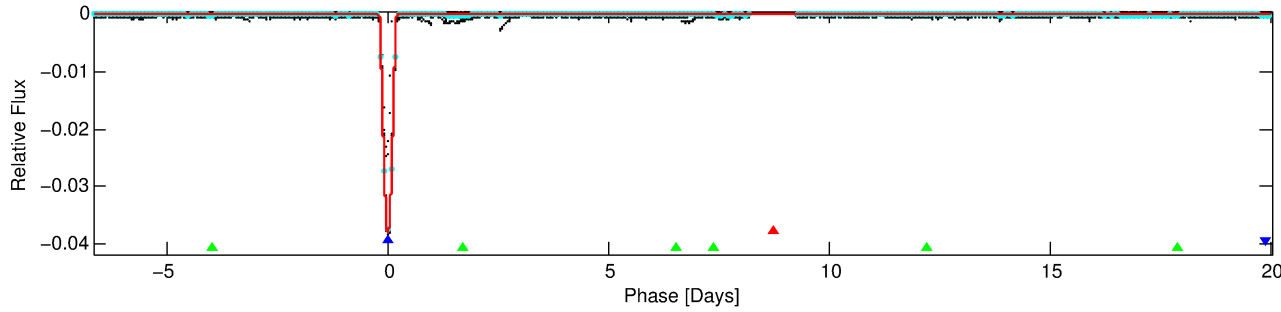
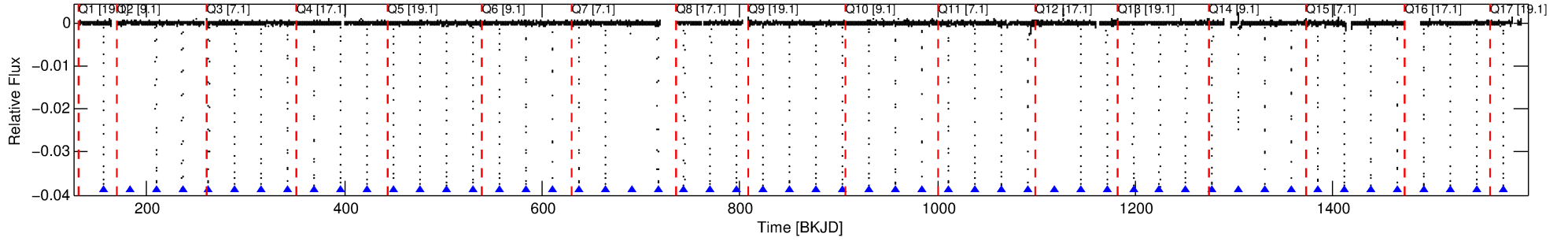
Ephemeris Match Information For 007049486-02

No Significant Match Found

DV One-Page Summary

KIC: 7049486 Candidate: 2 of 3 Period: 26.718 d
KOI: K06815 Corr: No Ephemeris Match

Kp: 13.14 R*: 1.29 Rs Teff: 5957.0 K Logg: 4.17 Fe/H: -0.420



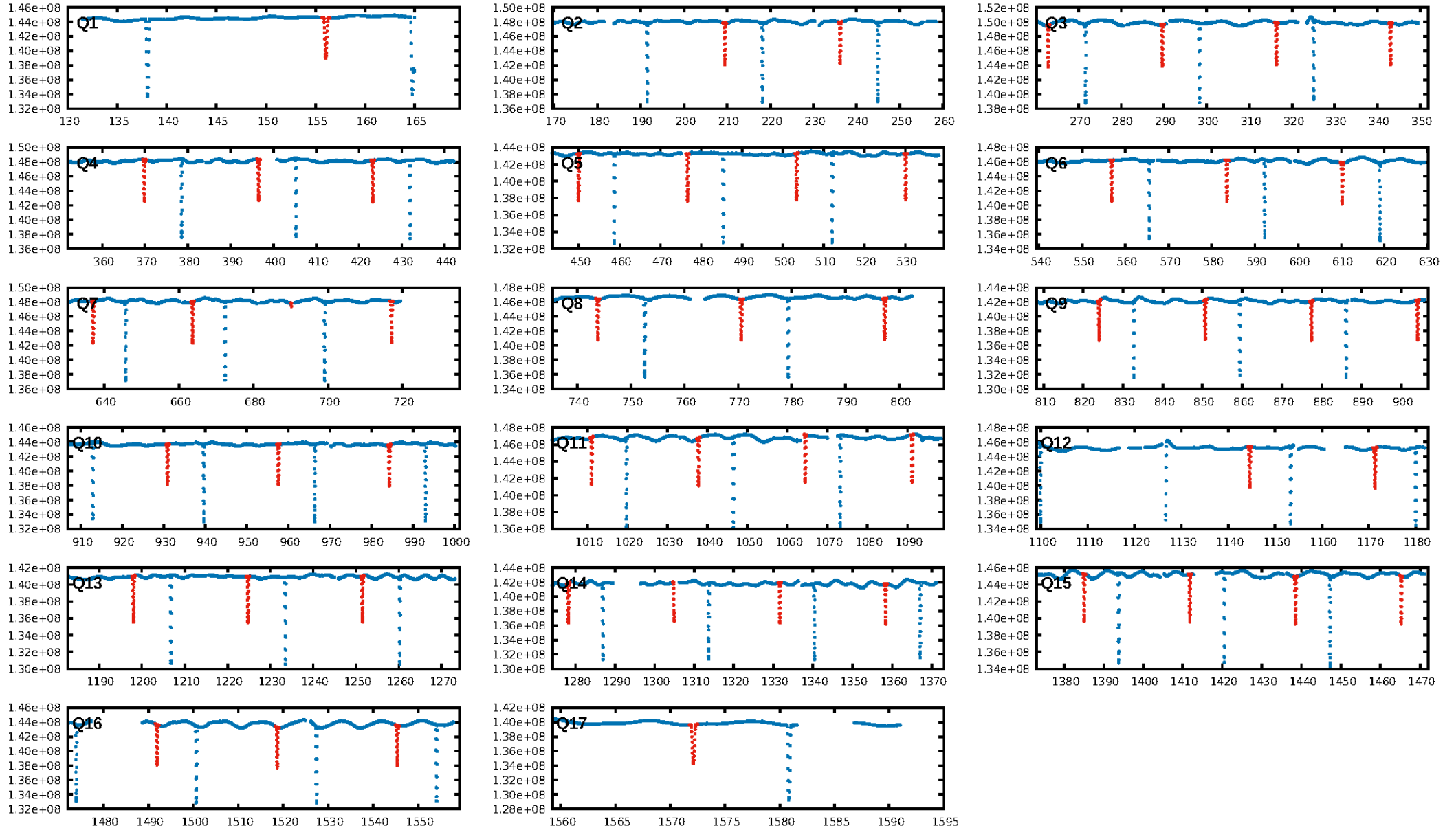
DV Fit Results:

Period = 26.71842 [0.00000] d
Epoch = 156.0397 [0.0001] BKJD
Rp/R* = 0.3086 [0.0071]
a/R* = 18.11 [0.02]
b = 1.00 [0.01]
Seff = 65.98 [34.69]
Teq = 727 [96] K
Rp = 43.31 [14.11] Re
a = 0.1682 [0.0532] AU
Ag = 0.47 [0.27] [-2.00σ]
Teffp = 931 [64] K [1.78σ]

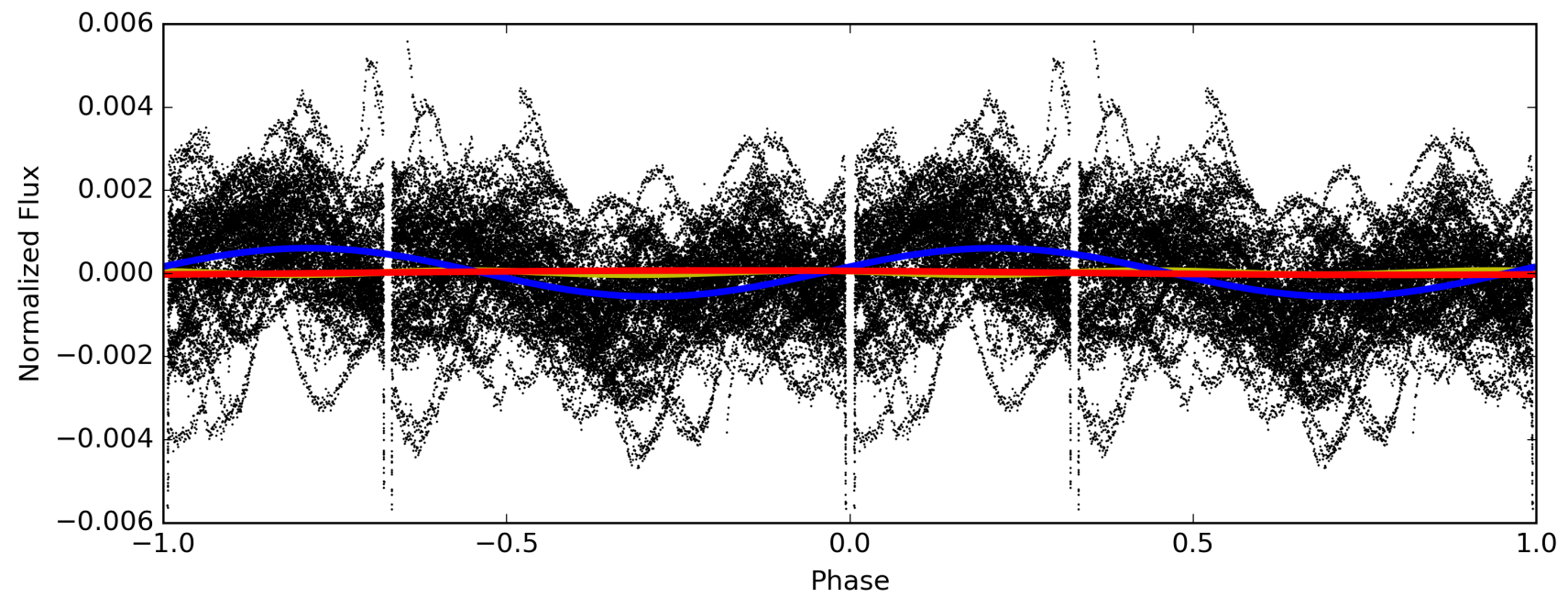
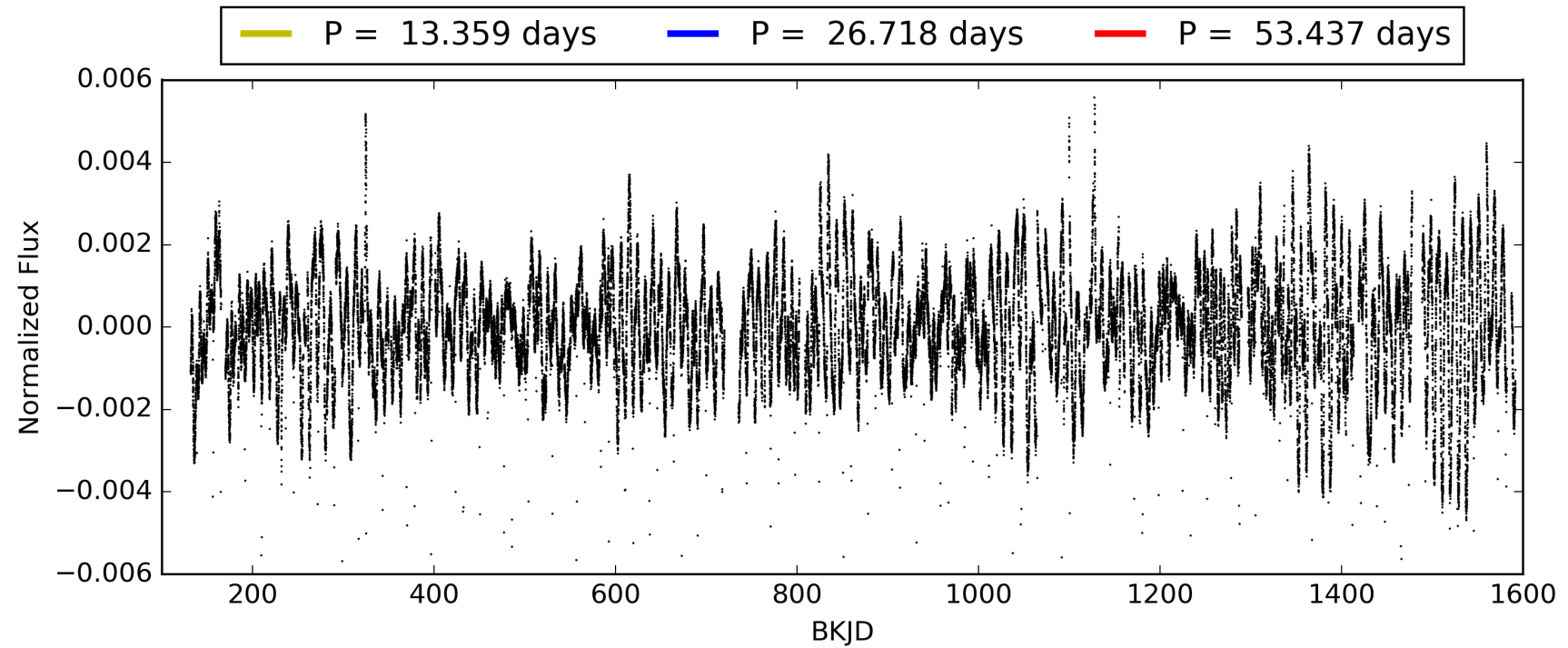
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [415.44σ]
ModelChiSquare2-sig: 75.9%
ModelChiSquareGof-sig: 0.1%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [50/50]
GhostDiagnostic-chr: 3.98
Centroid-sig: 0.0%
Centroid-so: 0.138 arcsec [60.53σ]
OotOffset-rm: 0.160 arcsec [2.39σ]
KicOffset-rm: 0.161 arcsec [2.39σ]
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]

TCE 007049486-02, PDC Light Curves

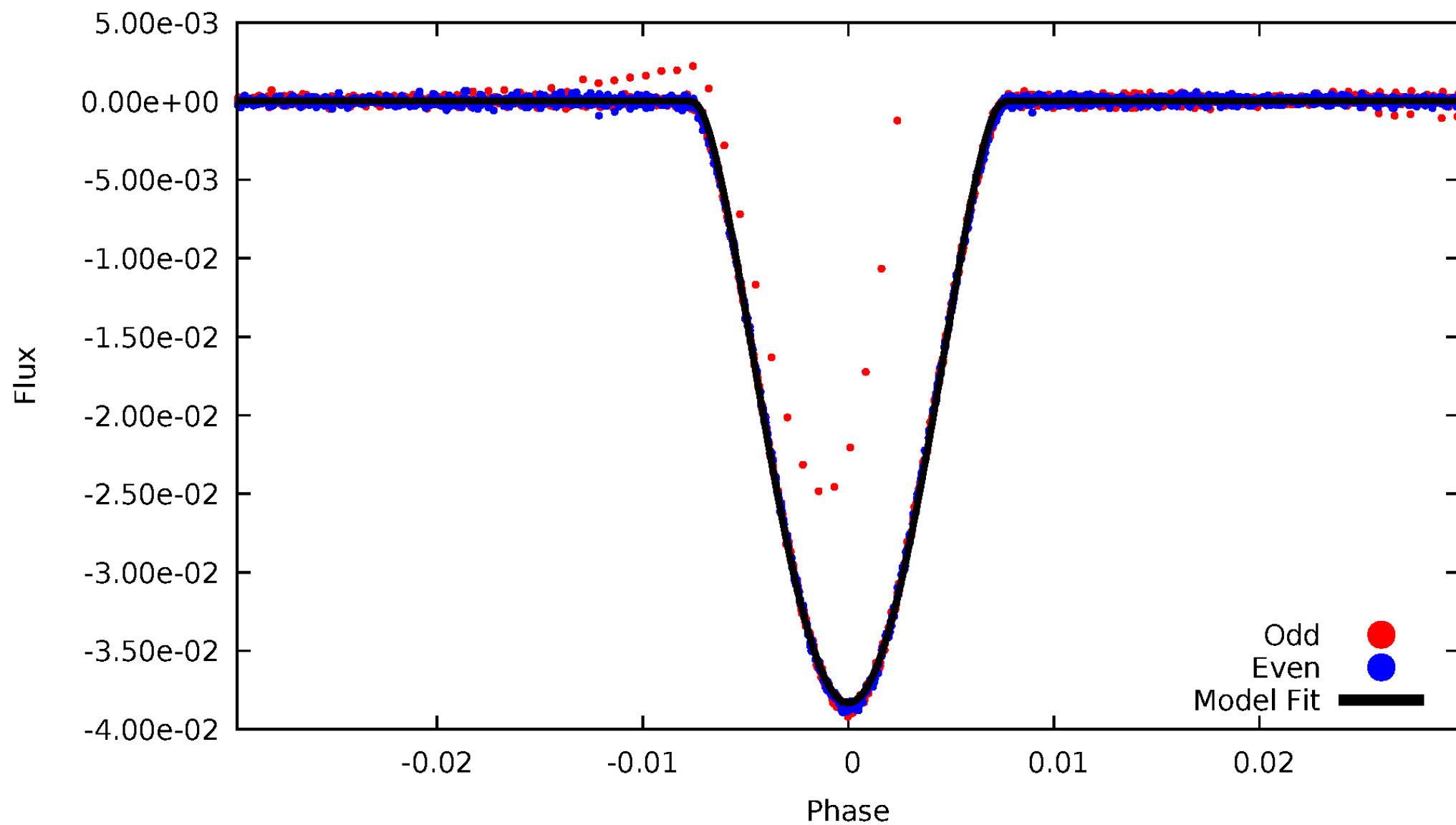


TCE 007049486-02



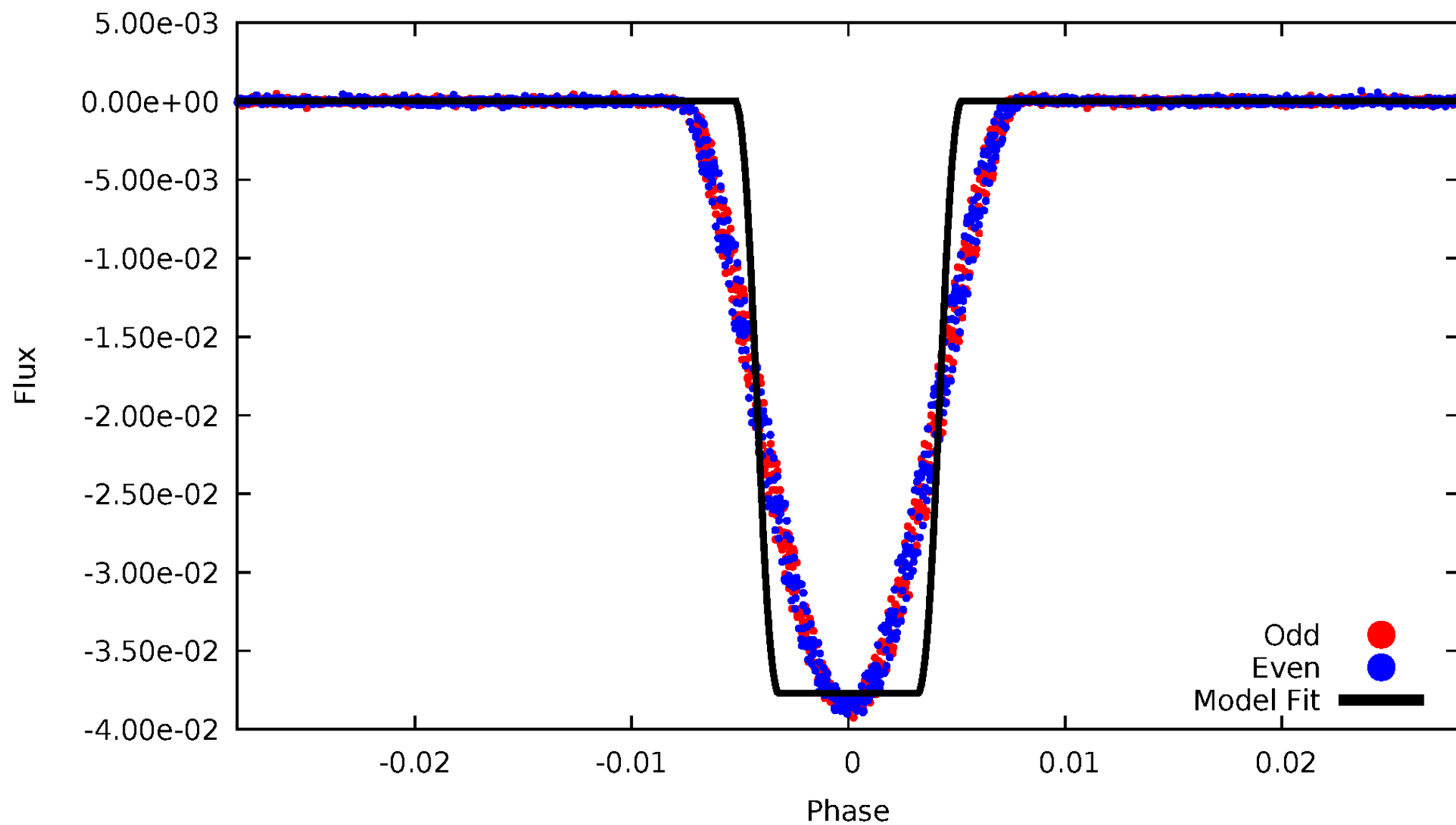
DV Odd/Even

TCE 007049486-02



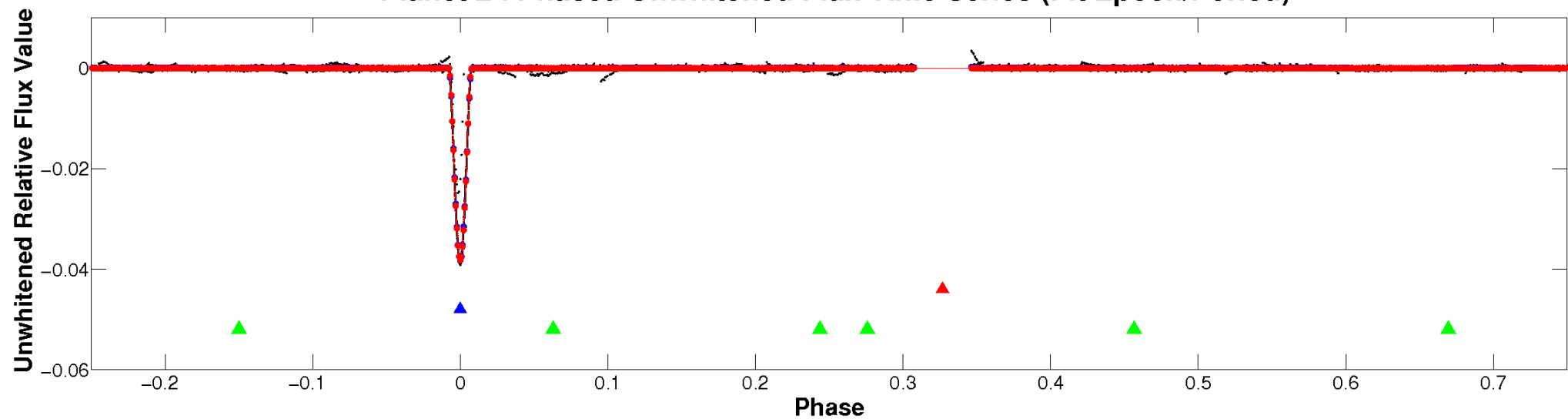
ALT Odd/Even

TCE 007049486-02

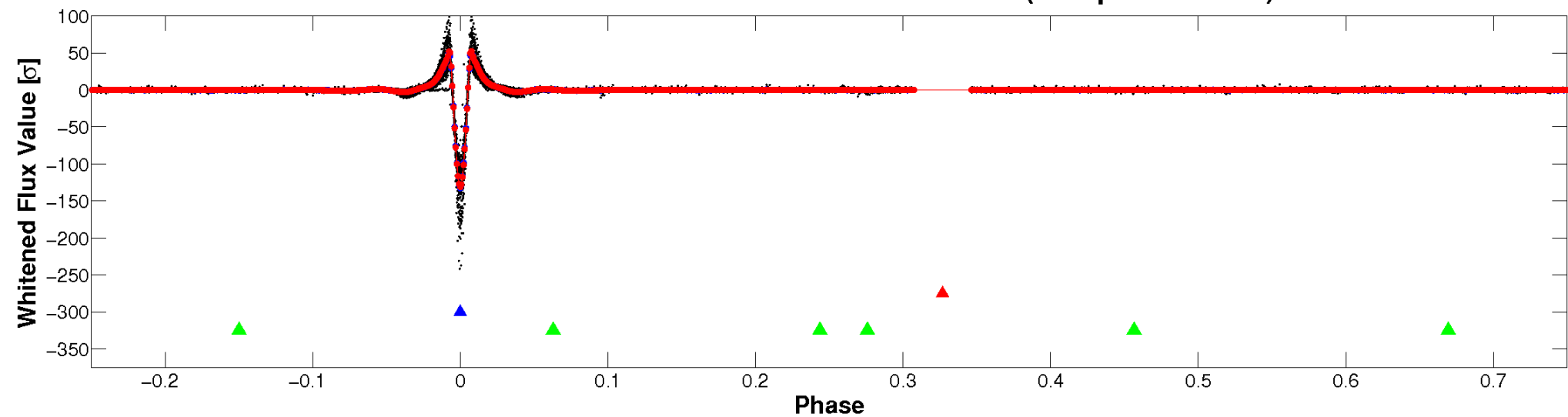


Non-Whitened Vs. Whitened Light Curve

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

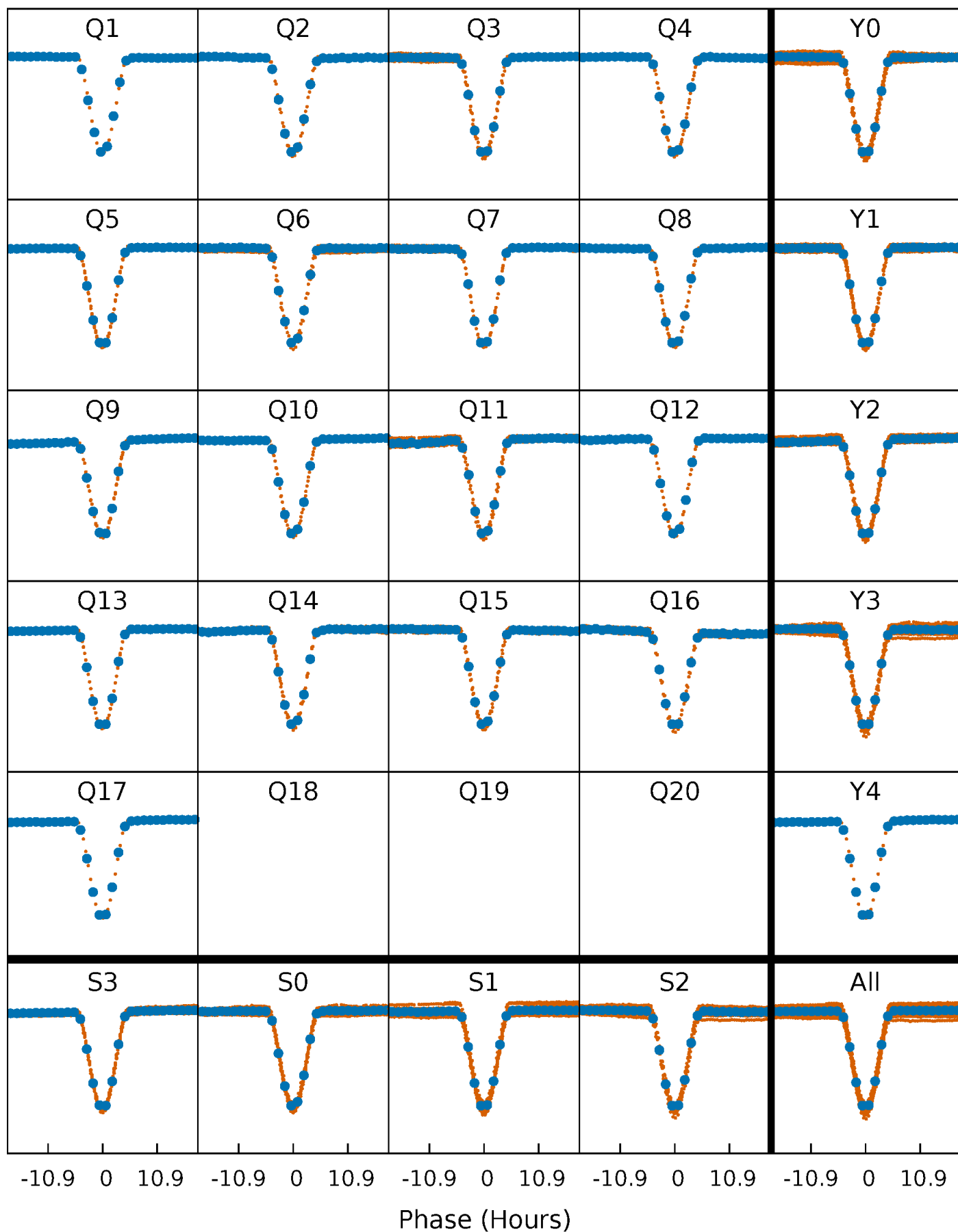


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



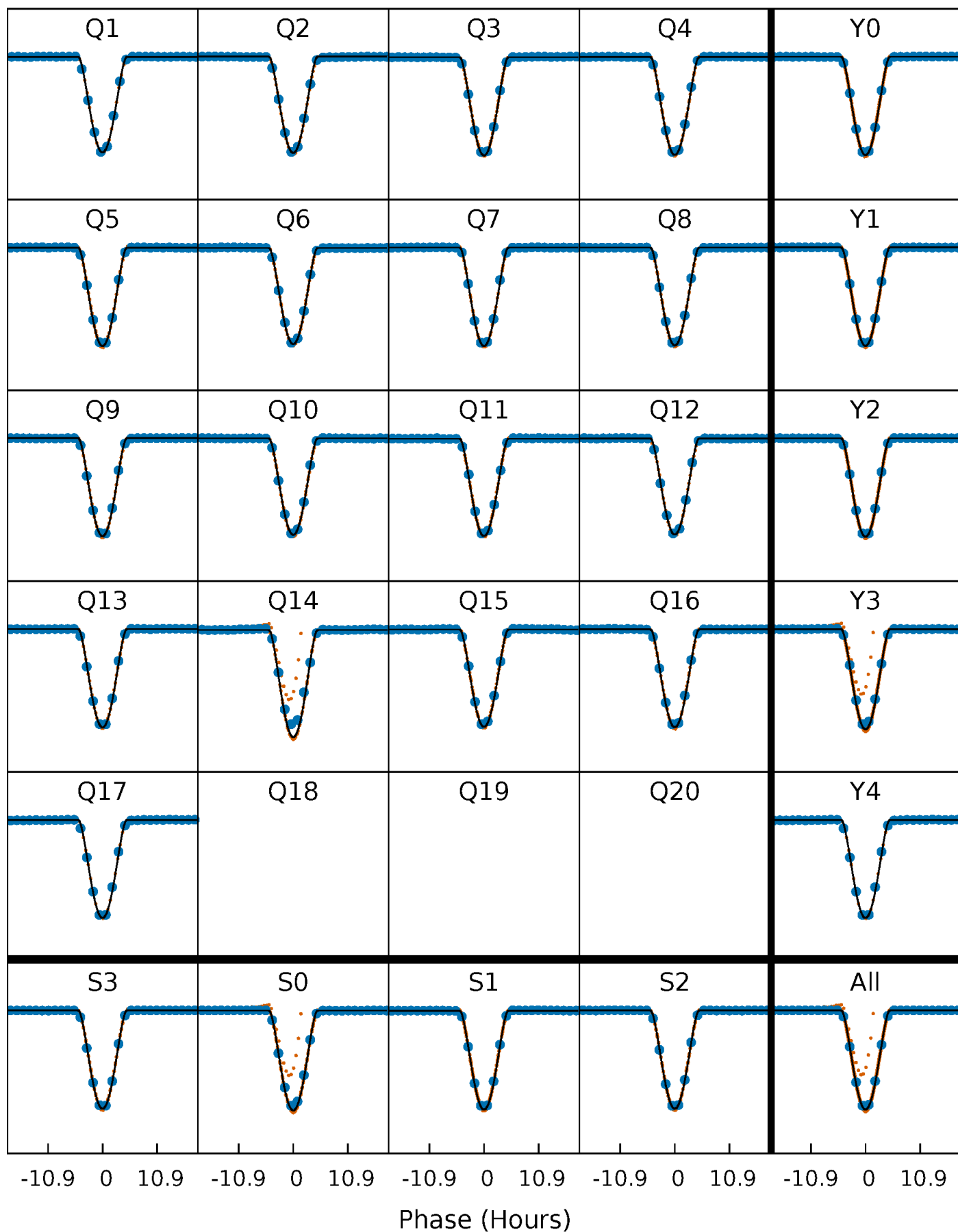
PDC Quarter-Phased Transit Curves

TCE 007049486-02 P= 26.718417 Days $T_0=156.039725$ (BKJD)



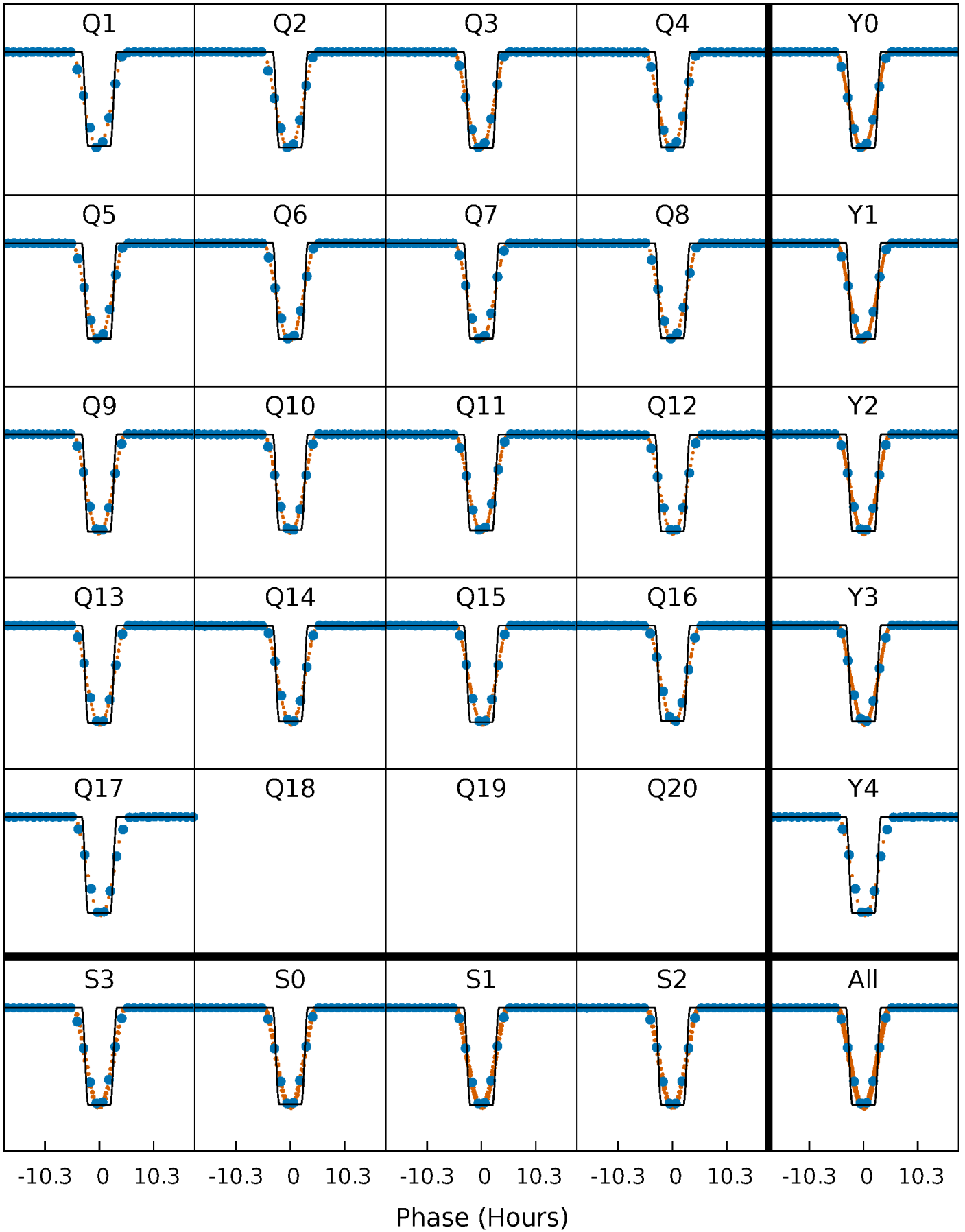
DV Quarter-Phased Transit Curves

TCE 007049486-02 P= 26.718417 Days $T_0=156.039725$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

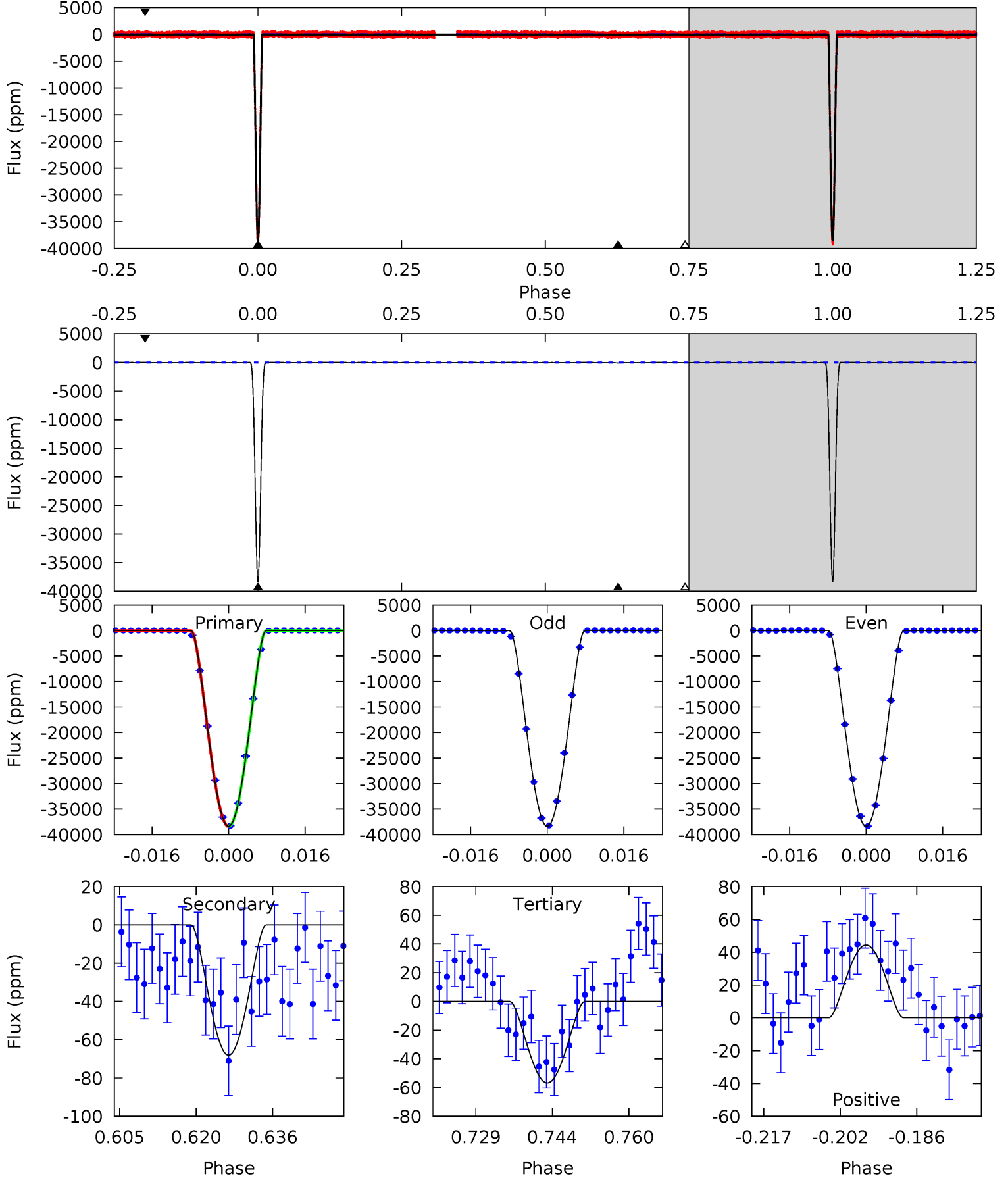
TCE 007049486-02 P= 26.718037 Days $T_0=156.049940$ (BKJD)



DV Model-Shift Uniqueness Test

007049486-02, P = 26.718417 Days, E = 129.321308 Days

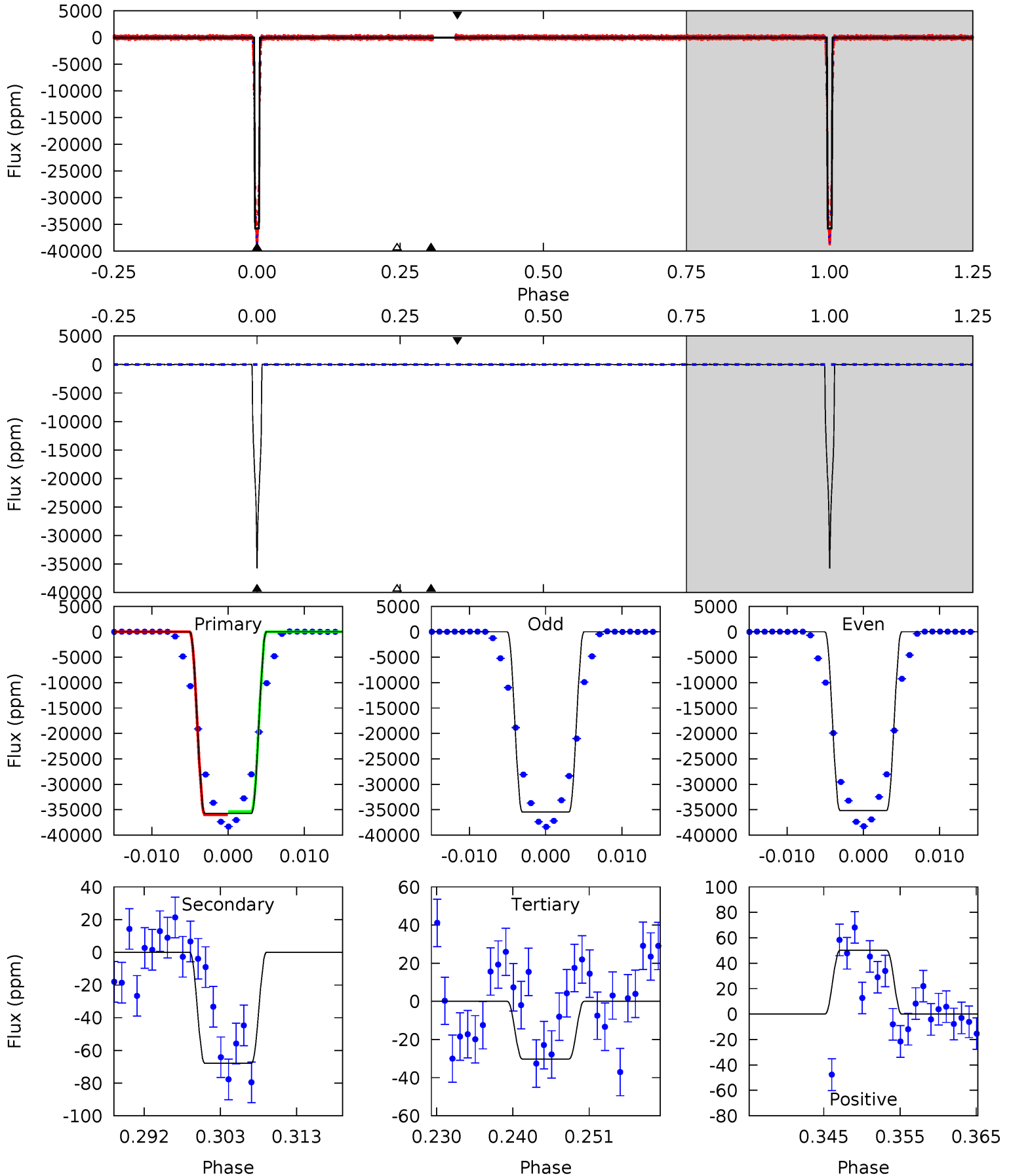
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7078	12.6	10.5	8.20	4.94	2.42	3.99	7067	7070	2.10	4.37	0.54	1.00	0.00	2.66



Alt Model-Shift Uniqueness Test

007049486-02, P = 26.718037 Days, E = 129.331903 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4711	8.95	3.98	6.61	5.02	2.56	1.27	4707	4705	4.97	2.34	20.9	1.00	0.00	40.6



Stellar Parameters For KIC 007049486

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5957^{+196}_{-196}	$4.168^{+0.300}_{-0.175}$	$-0.420^{+0.300}_{-0.300}$	$1.286^{+0.380}_{-0.418}$	$0.888^{+0.130}_{-0.087}$	$0.588^{+1.114}_{-0.302}$
	+3%/-3%	+7%/-4%	+71%/-71%	+30%/-33%	+15%/-10%	+190%/-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 007049486-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-68 ± 5	$43.33^{+7.33}_{-7.70}$	1012^{+84}_{-93}	1841^{+69}_{-99}	$0.575^{+0.265}_{-0.156}$
Alt.	-68 ± 8	$26.92^{+4.32}_{-4.45}$	1004^{+84}_{-89}	2121^{+62}_{-50}	$1.454^{+0.720}_{-0.395}$

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

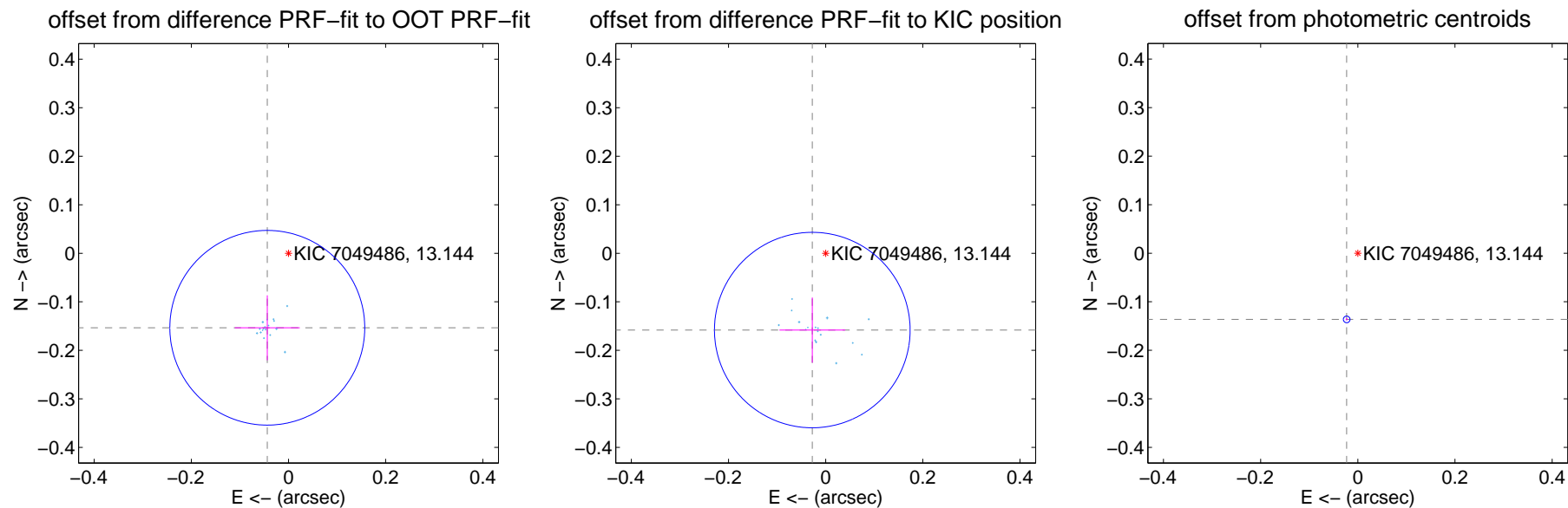
DV Centroid Data

Supplemental centroid analysis for 007049486-02. Kepler magnitude: 13.14. Transit SNR 2521.06

There are 17 quarters with good PRF difference image offsets

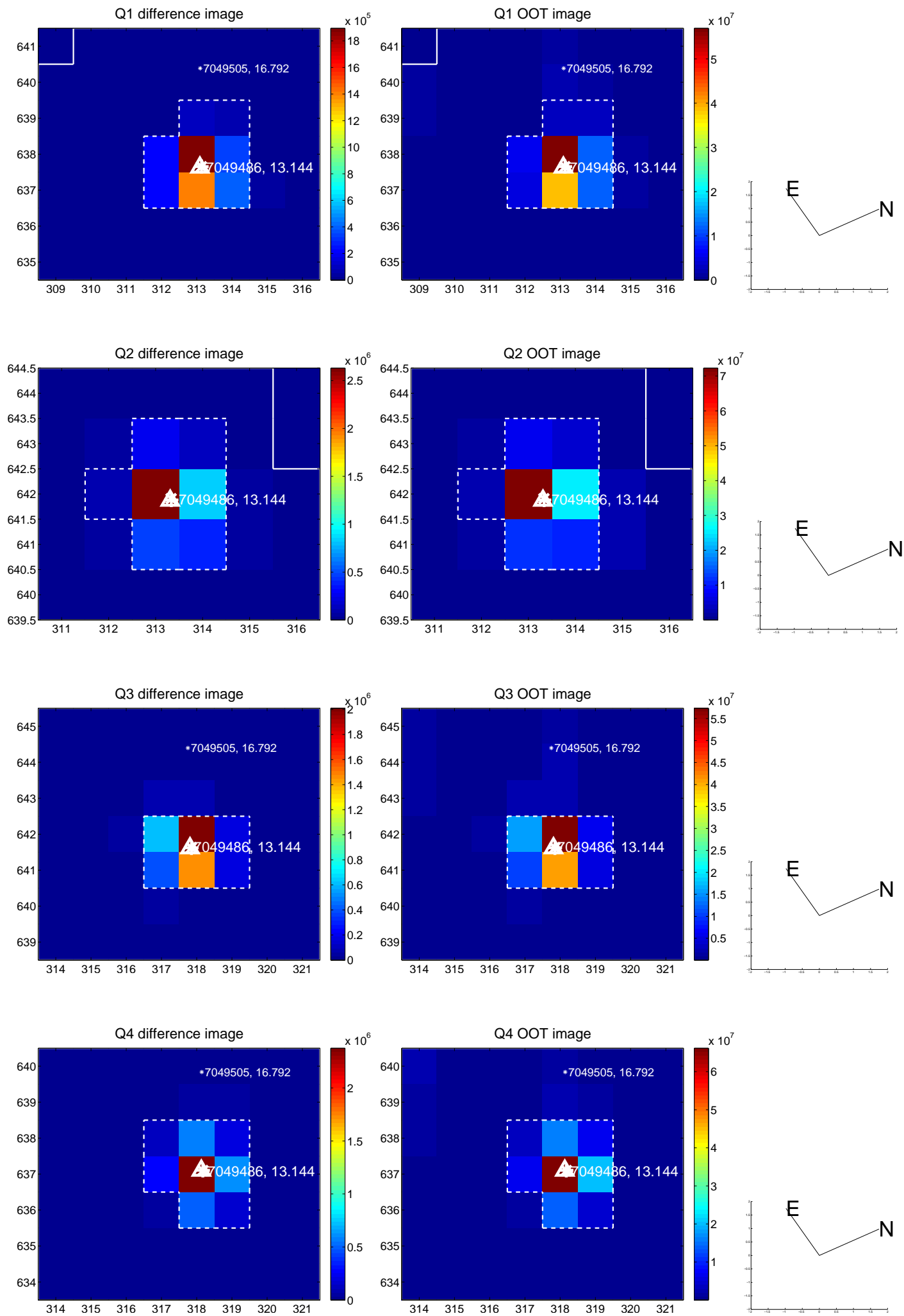
The direct PRF centroid is offset from the target star catalog position by about 0.00 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.160 ± 0.067	2.39	0.044 ± 0.067	-0.153 ± 0.067
PRF-fit source offset from KIC position	0.161 ± 0.067	2.39	0.028 ± 0.068	-0.158 ± 0.067
photometric centroid source offset	0.14 ± 0.00	60.53	0.02 ± 0.00	-0.14 ± 0.00

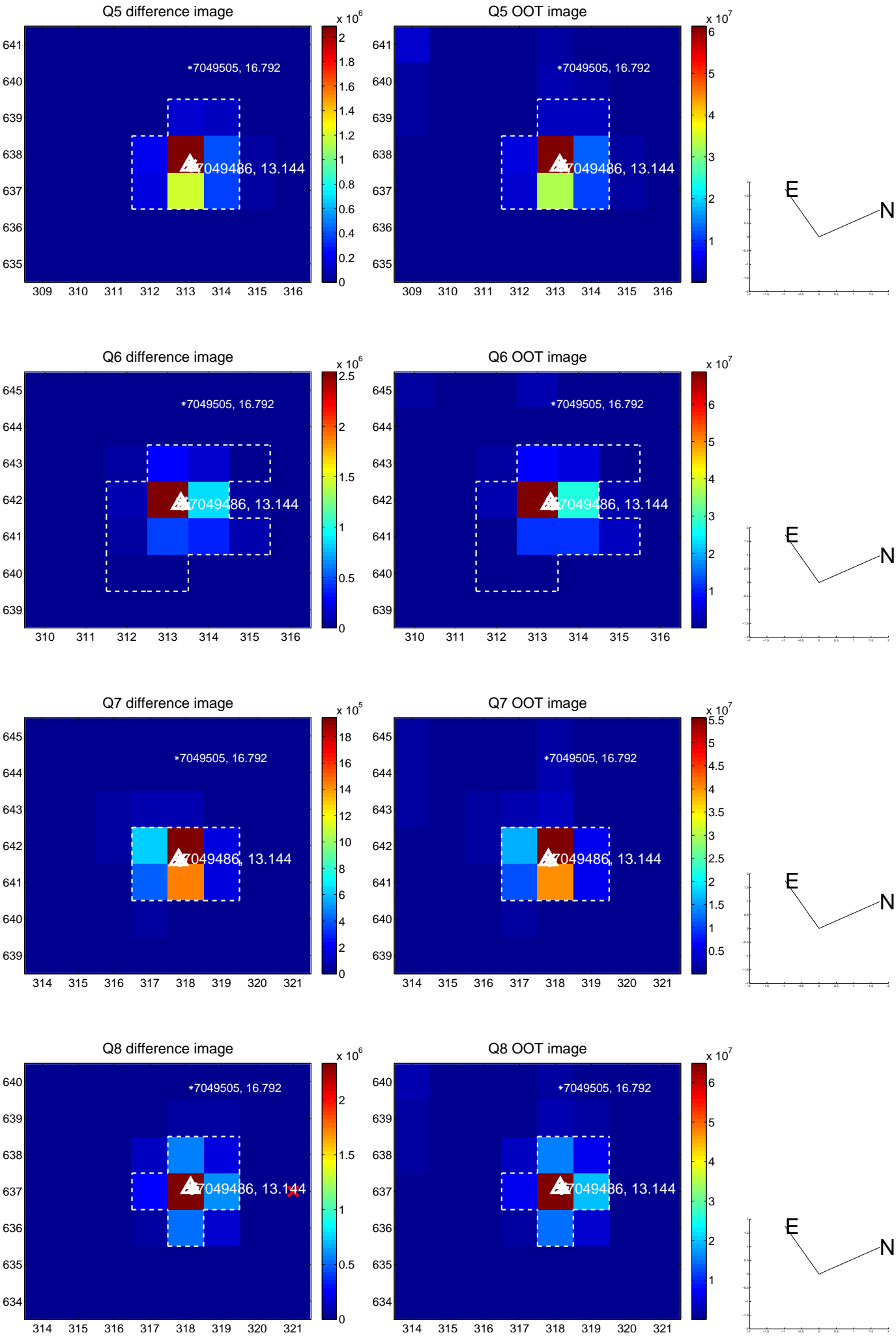


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

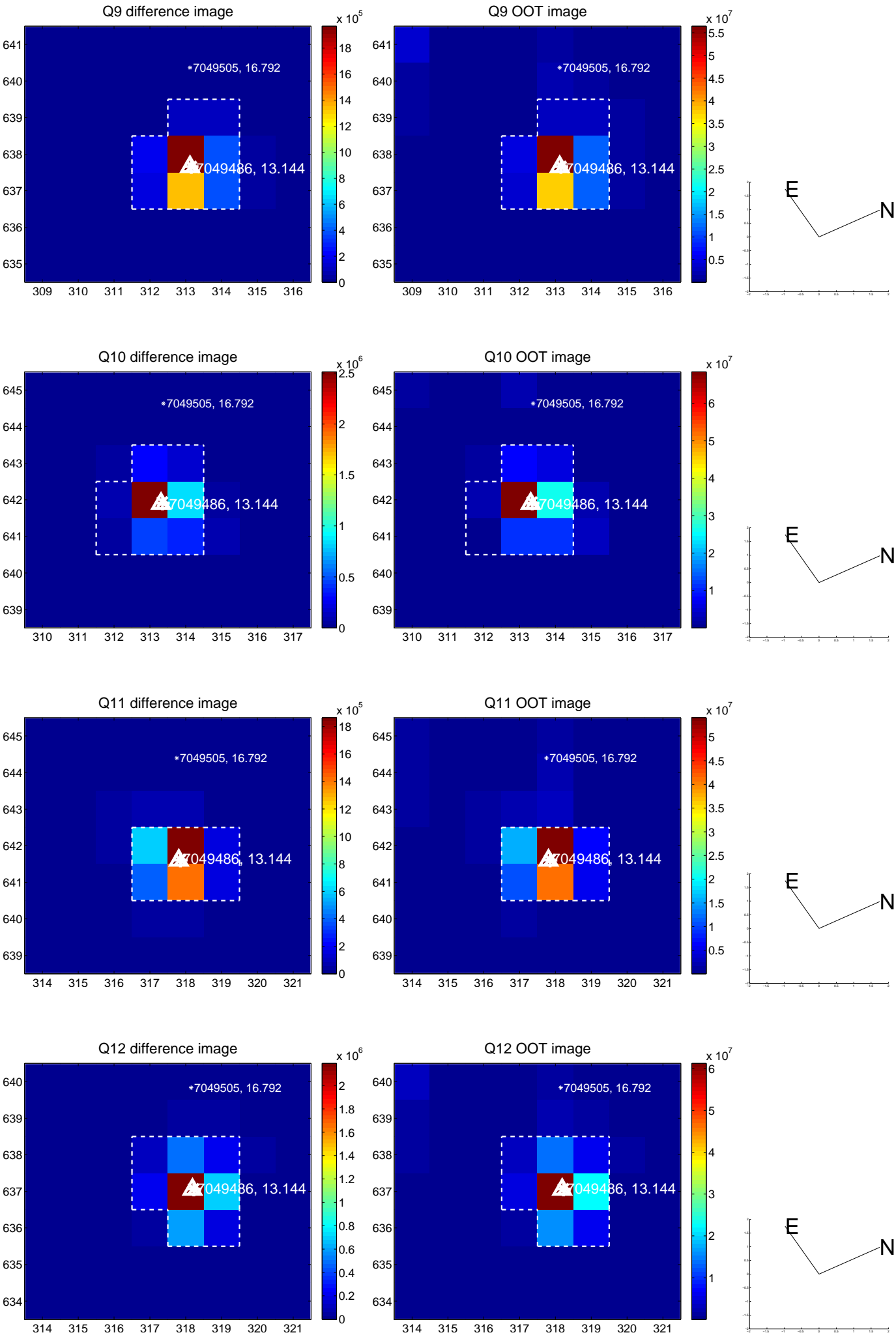
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



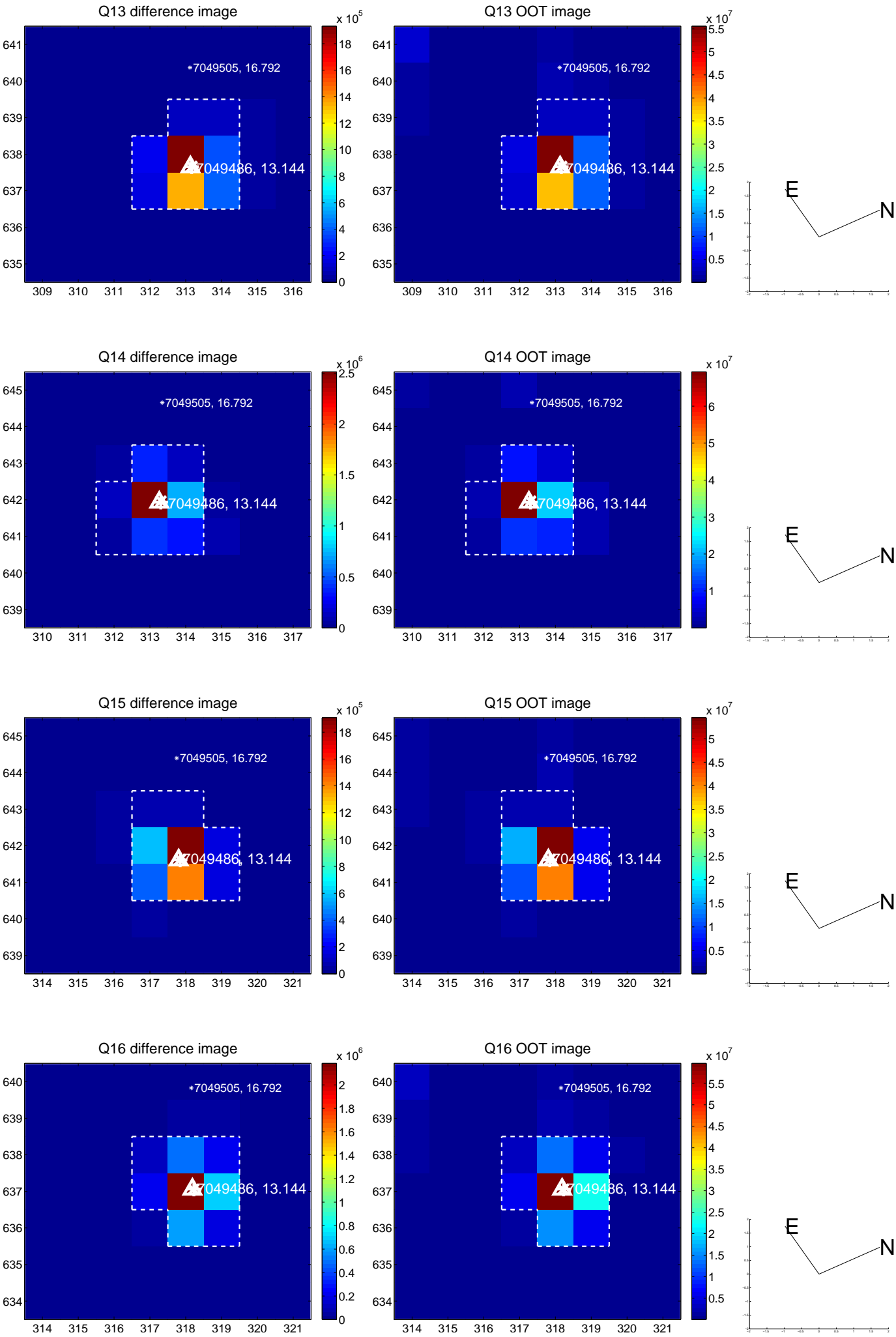
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



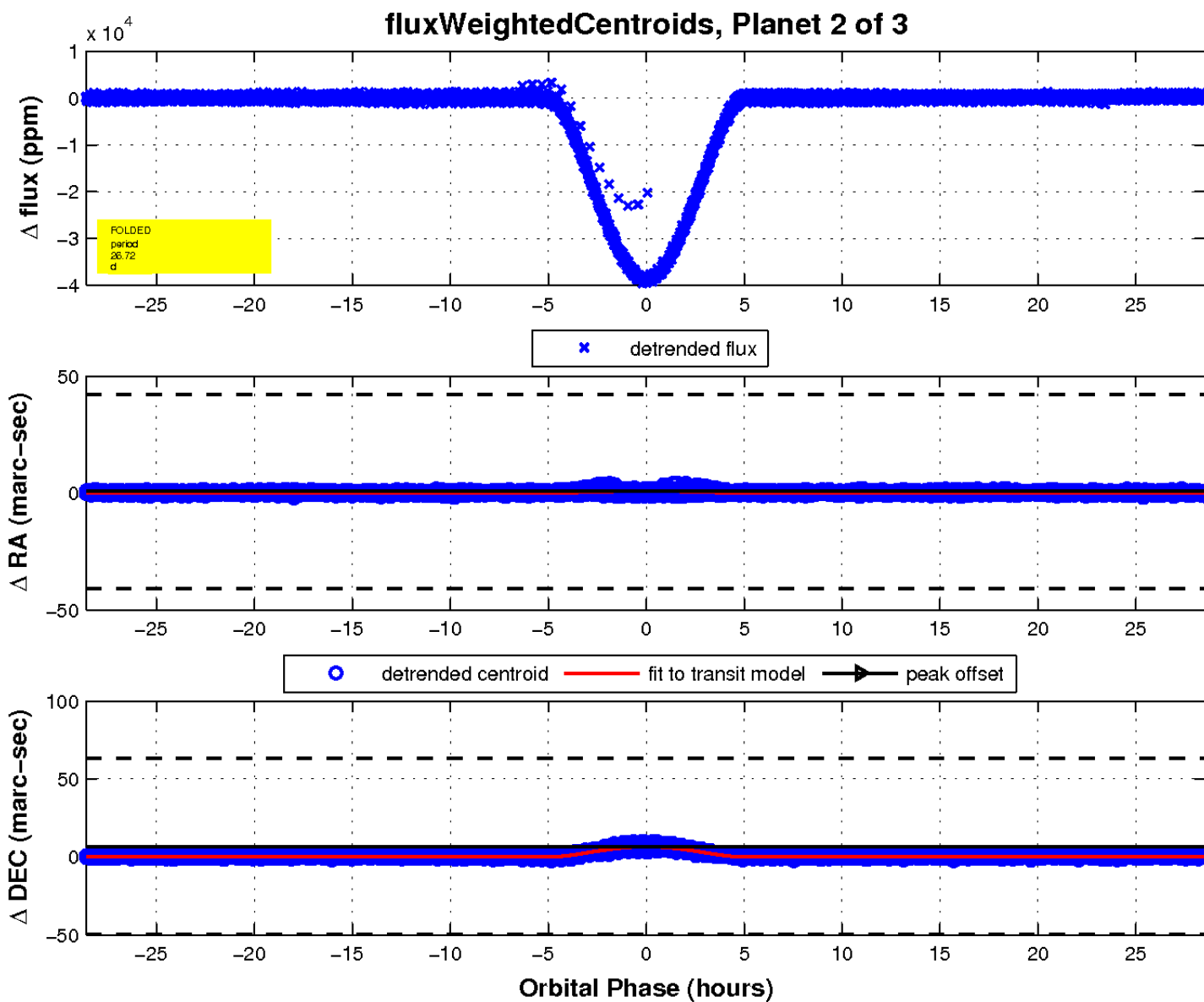
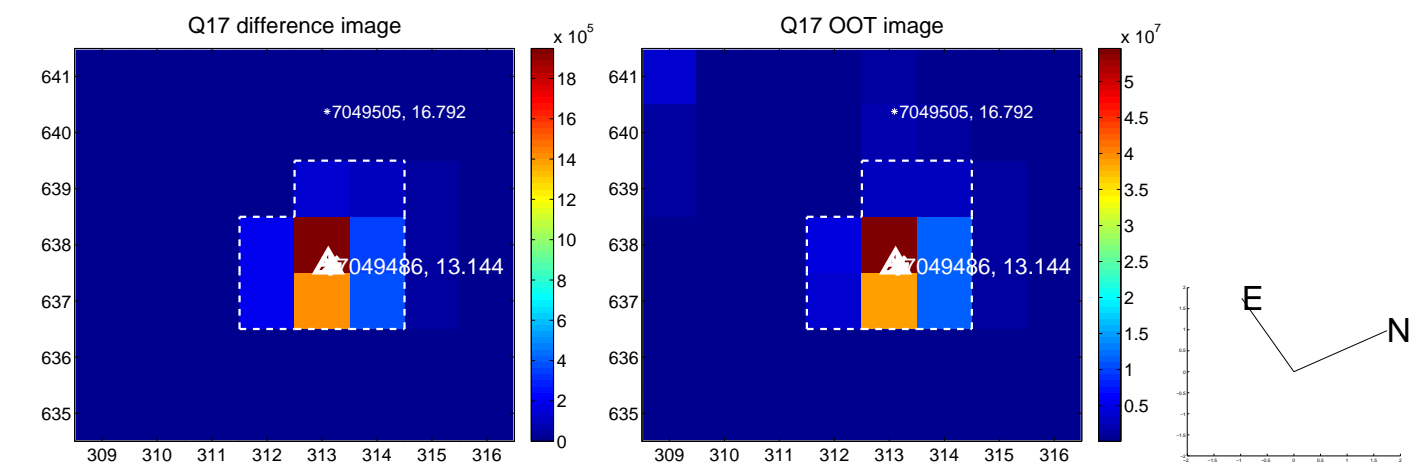
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

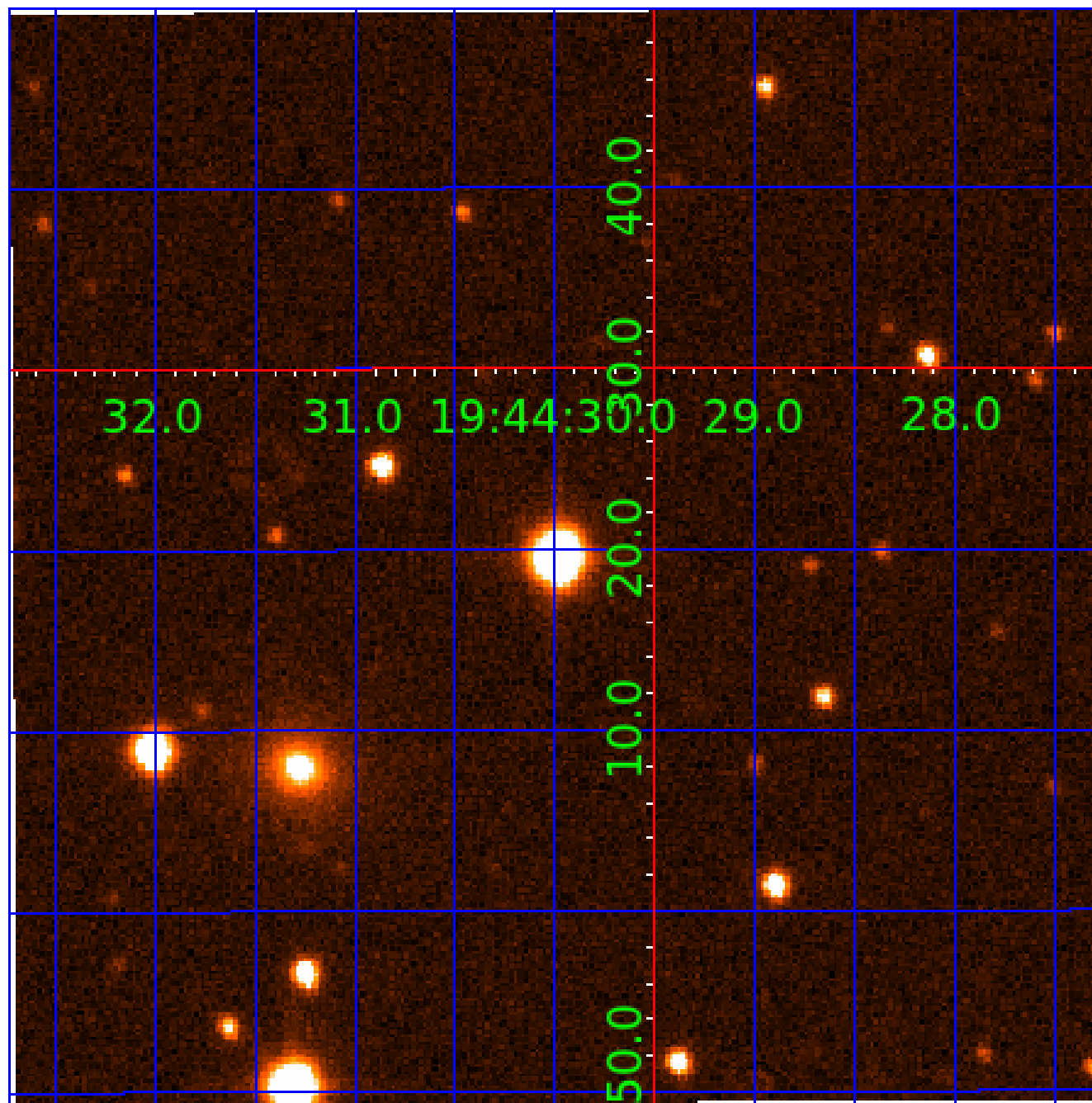


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007049486

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})
007049486-01	OBS	6815.01	26.718351	138.054096	72172.8	8.212	4569.1	2888.7	1.29	5957	58.79	65.98
007049486-02	OBS	No	26.718417	156.039725	38318.4	9.530	2575.3	2521.1	1.29	5957	43.31	65.98
007049486-03	OBS	No	250.981212	163.411135	398.7	8.777	8.8	9.9	1.29	5957	5.05	3.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007049486-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
007049486-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
007049486-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—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.

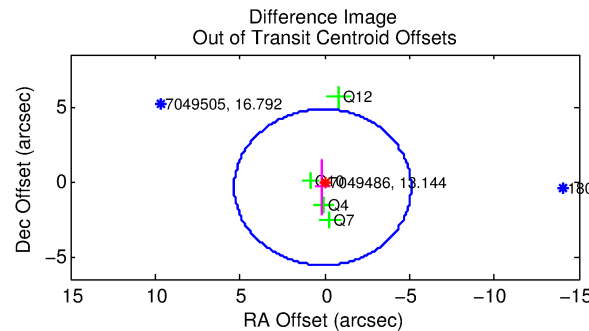
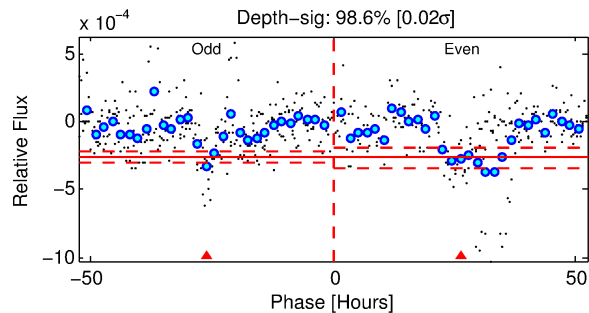
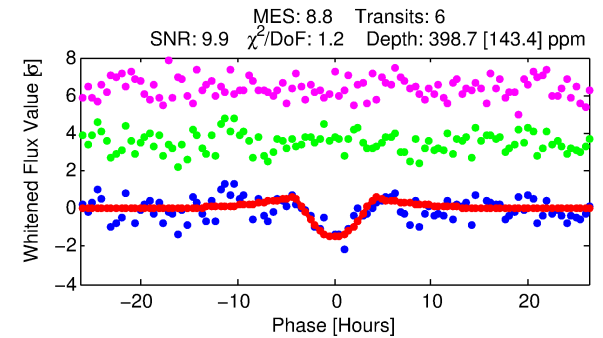
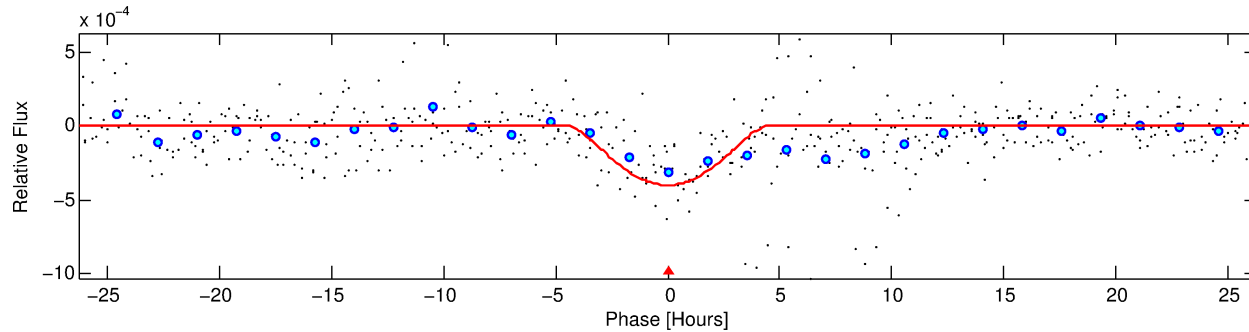
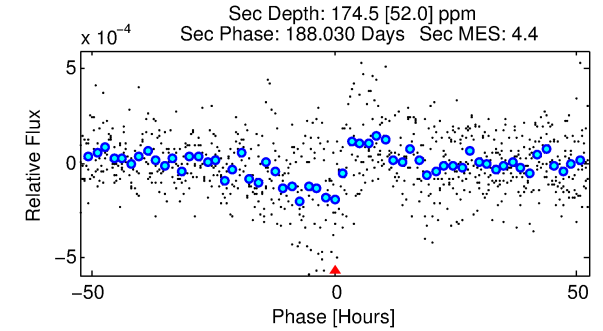
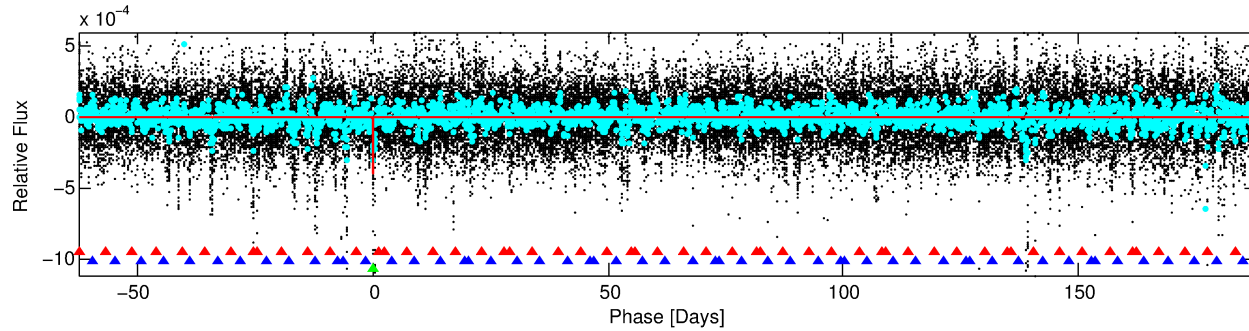
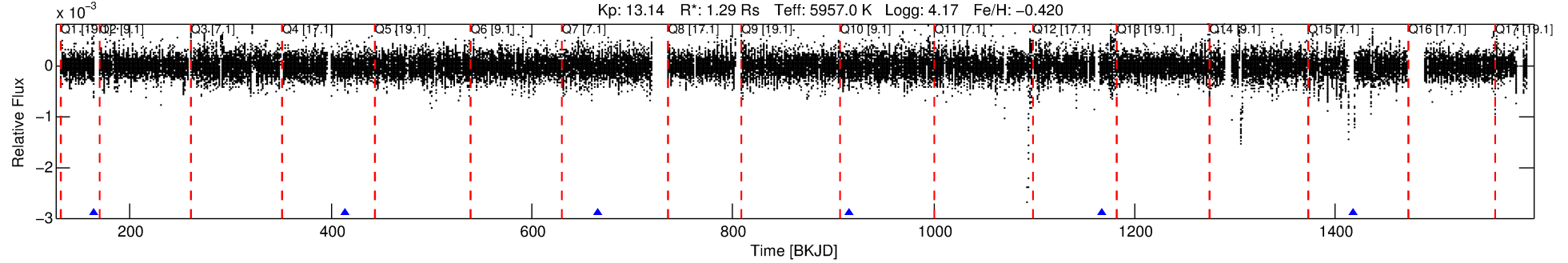
Ephemeris Match Information For 007049486-03

No Significant Match Found

DV One-Page Summary

KIC: 7049486 Candidate: 3 of 3 Period: 250.981 d
KOI: K06815 Corr: No Ephemeris Match

Kp: 13.14 R*: 1.29 Rs Teff: 5957.0 K Logg: 4.17 Fe/H: -0.420



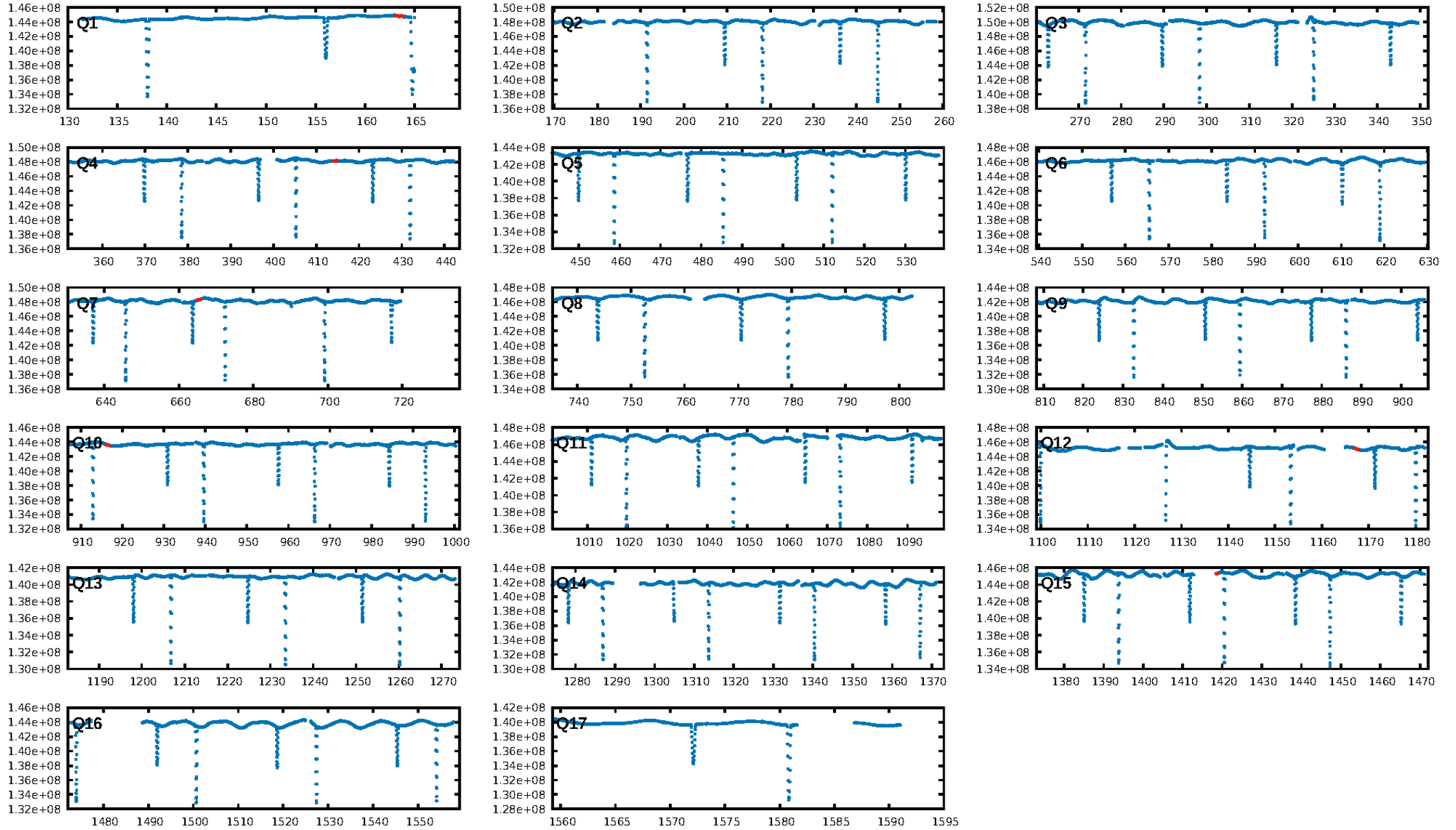
DV Fit Results:

Period = 250.98121 [0.00610] d
Epoch = 163.4111 [0.0125] BKJD
Rp/R* = 0.0360 [0.1004]
a/R* = 59.20 [41.96]
b = 1.00 [0.14]
Seff = 3.33 [1.75]
Teq = 344 [45] K
Rp = 5.05 [14.19] Re
a = 0.7487 [0.2367] AU
Ag = 2108.26 [11828.29] [0.18σ]
Teffp = 3608 [5042] K [0.65σ]

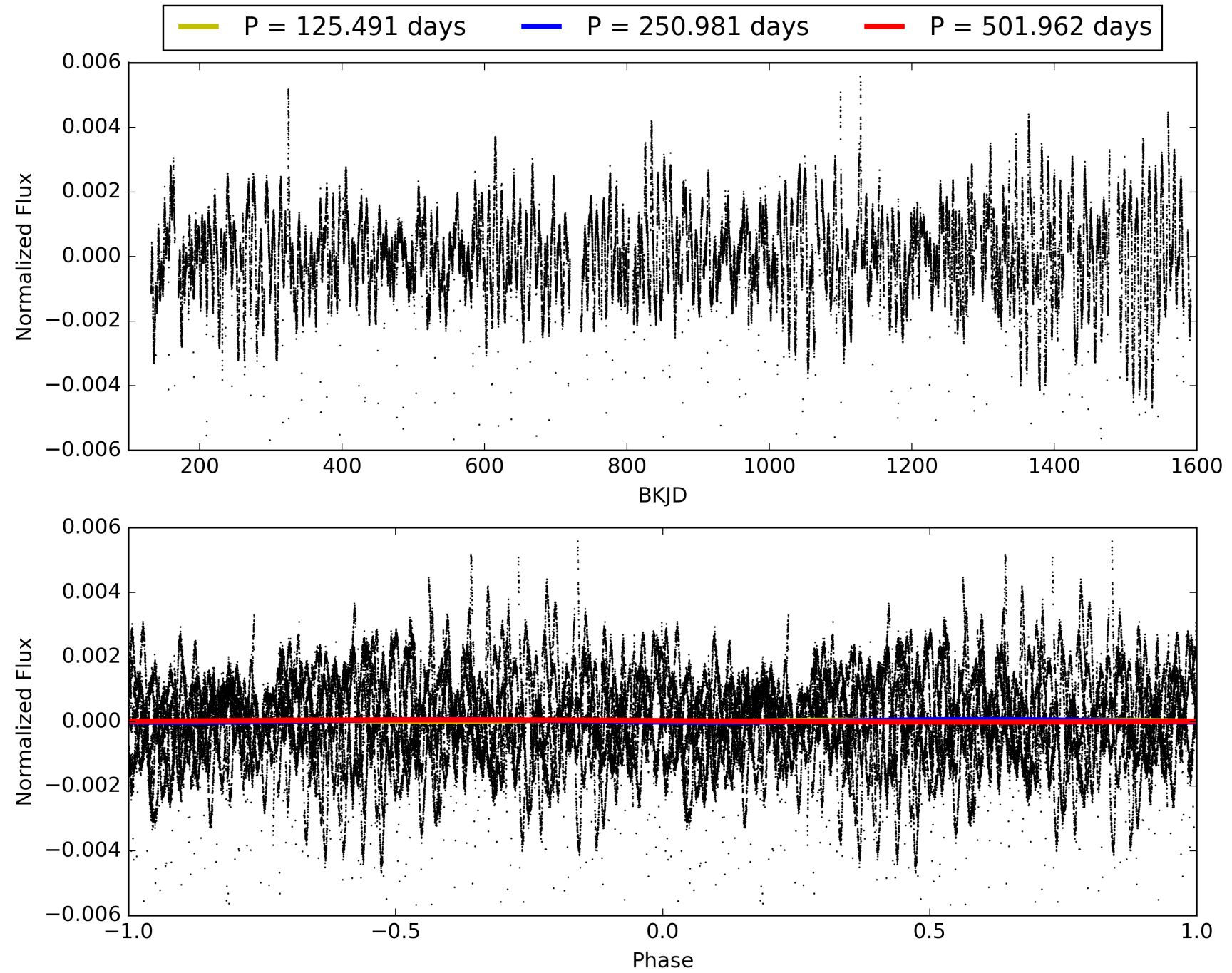
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [415.44σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 35.5%
ModelChiSquareGof-sig: 99.6%
Bootstrap-pfa: 1.80e-08
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -3.364
Centroid-sig: 8.5%
Centroid-so: 0.847 arcsec [1.24σ]
OotOffset-rm: 0.389 arcsec [0.22σ]
OotOffset-st: 1/1/2/0 [4]
KicOffset-rm: 0.407 arcsec [0.23σ]
KicOffset-st: 1/1/2/0 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 1.00 [5/5]

TCE 007049486-03, PDC Light Curves

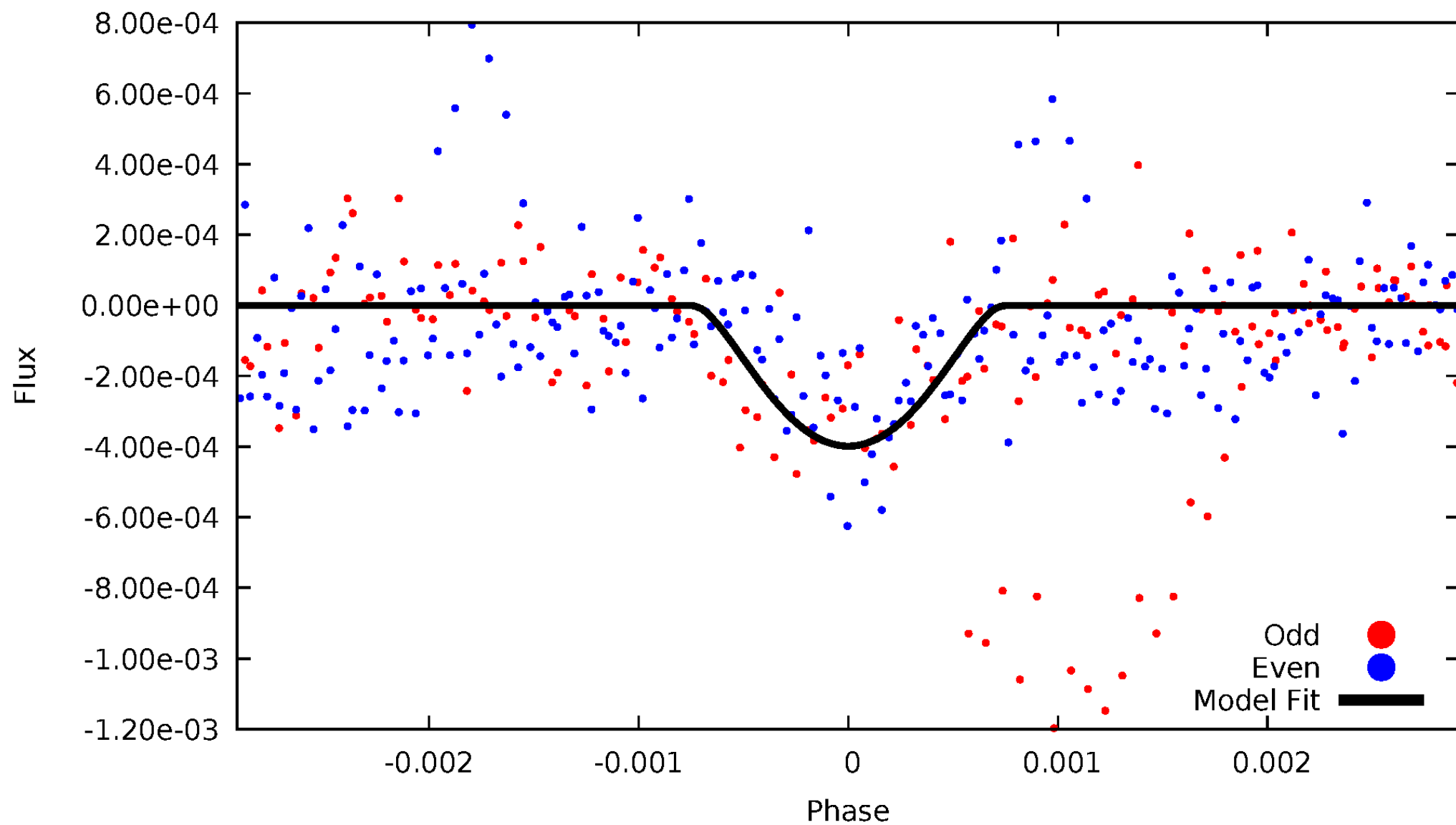


TCE 007049486-03



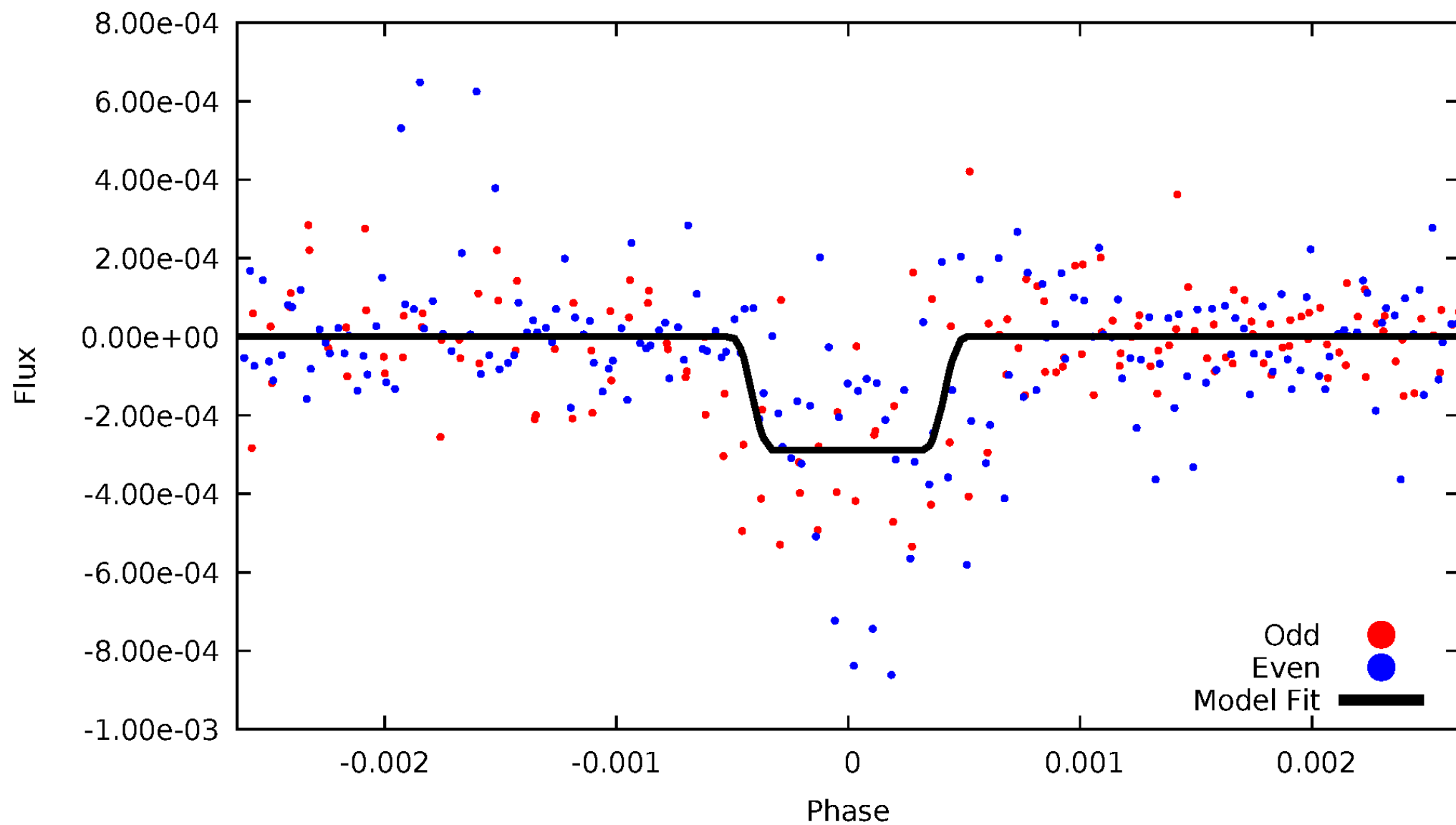
DV Odd/Even

TCE 007049486-03



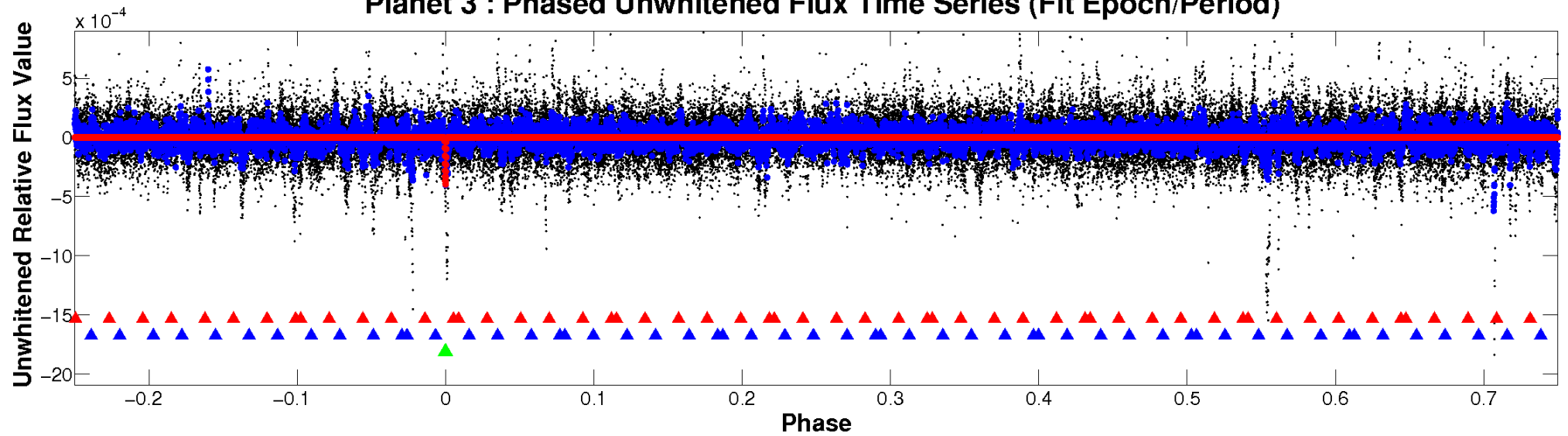
ALT Odd/Even

TCE 007049486-03

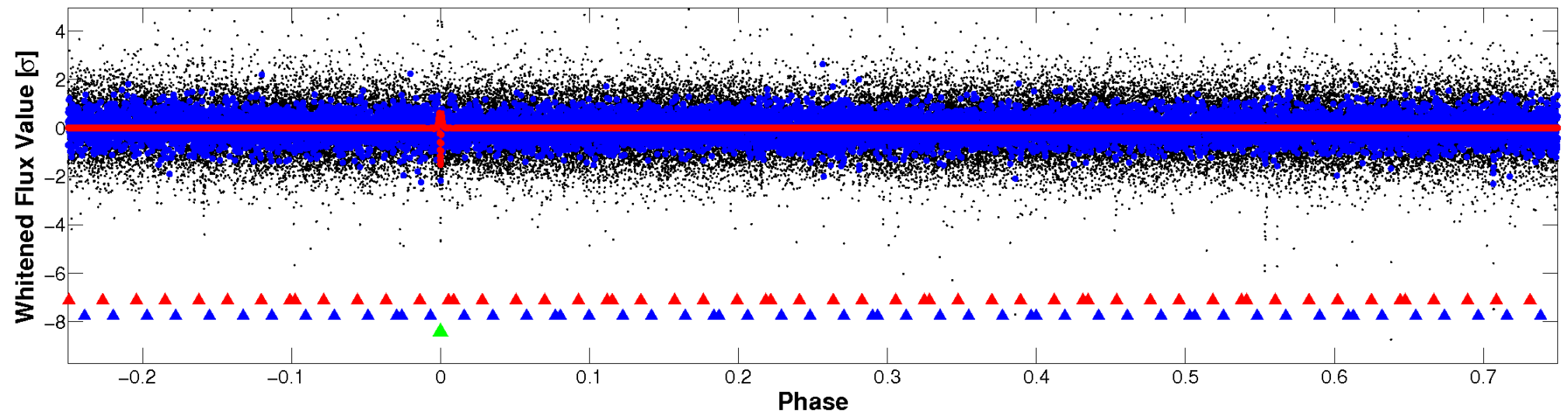


Non-Whitened Vs. Whitened Light Curve

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

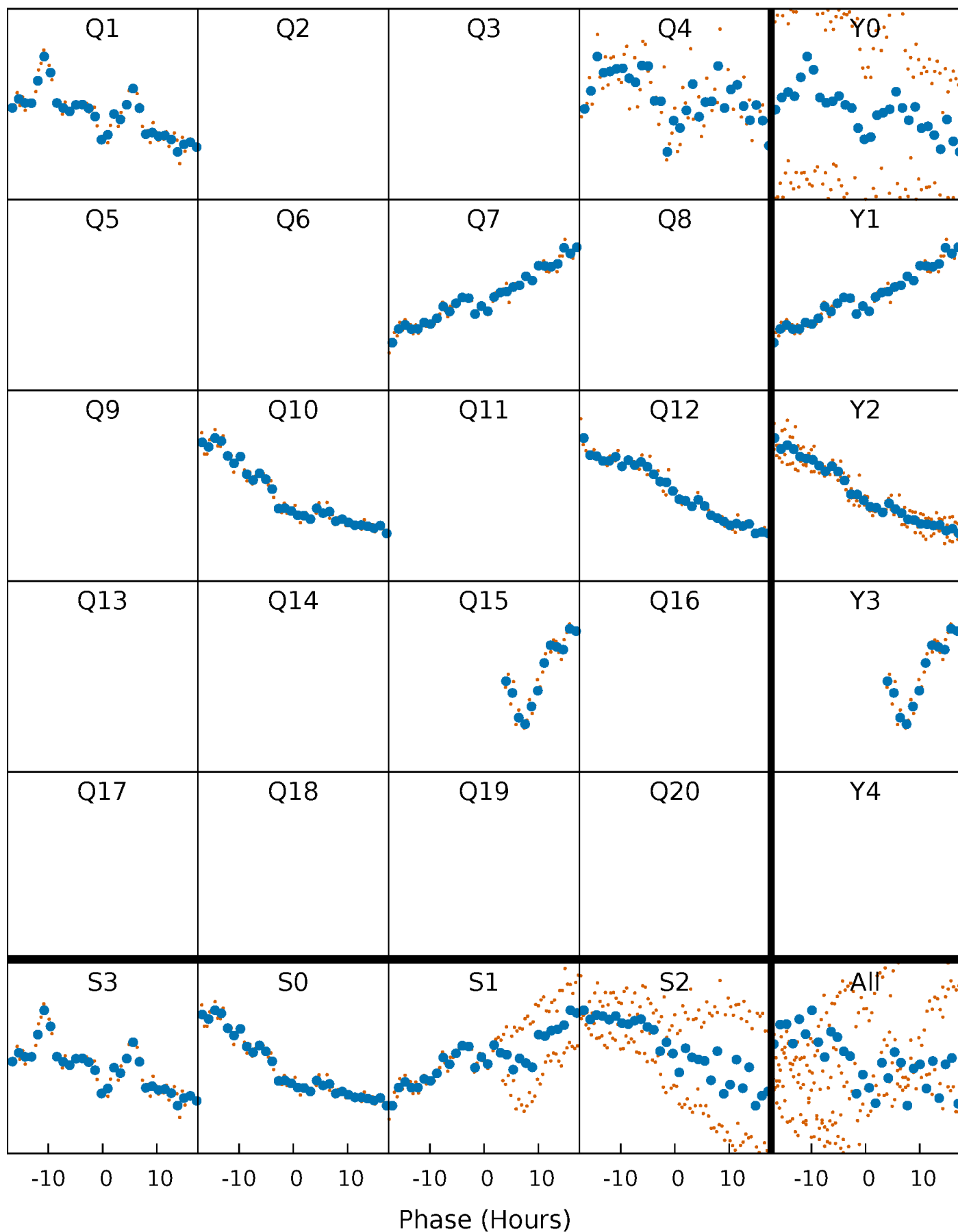


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



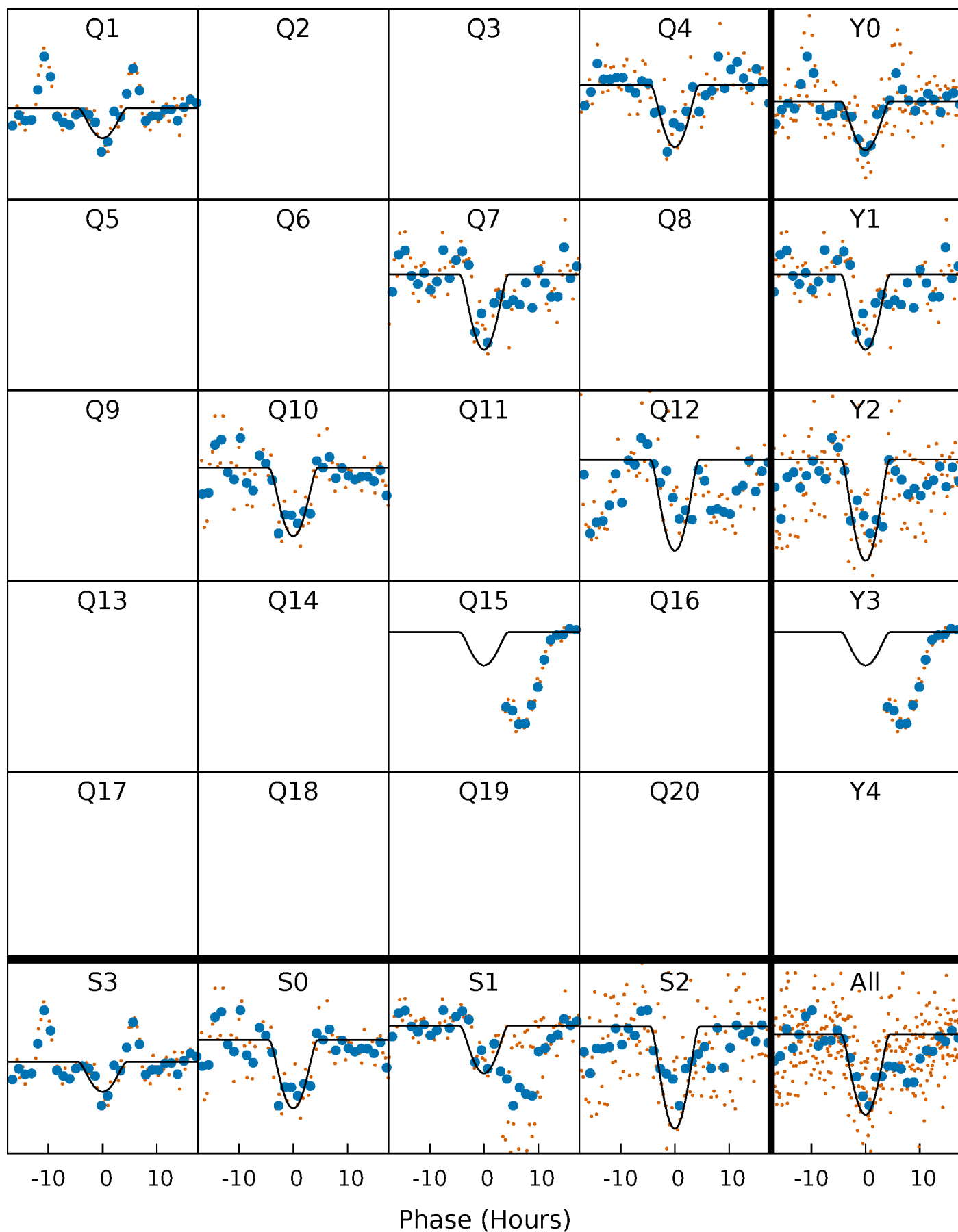
PDC Quarter-Phased Transit Curves

TCE 007049486-03 P=250.981212 Days $T_0=163.411135$ (BKJD)



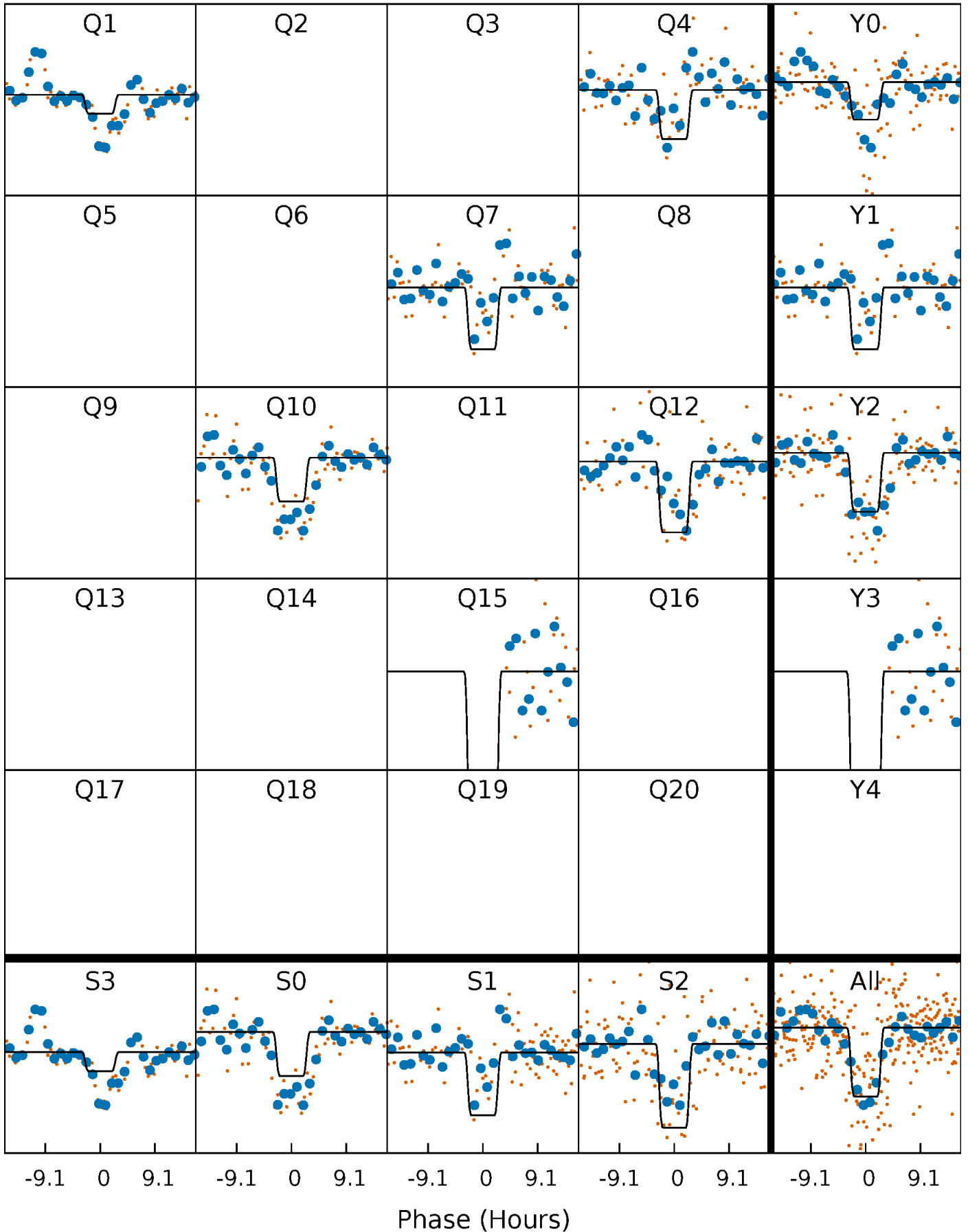
DV Quarter-Phased Transit Curves

TCE 007049486-03 $P=250.981212$ Days $T_0=163.411135$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

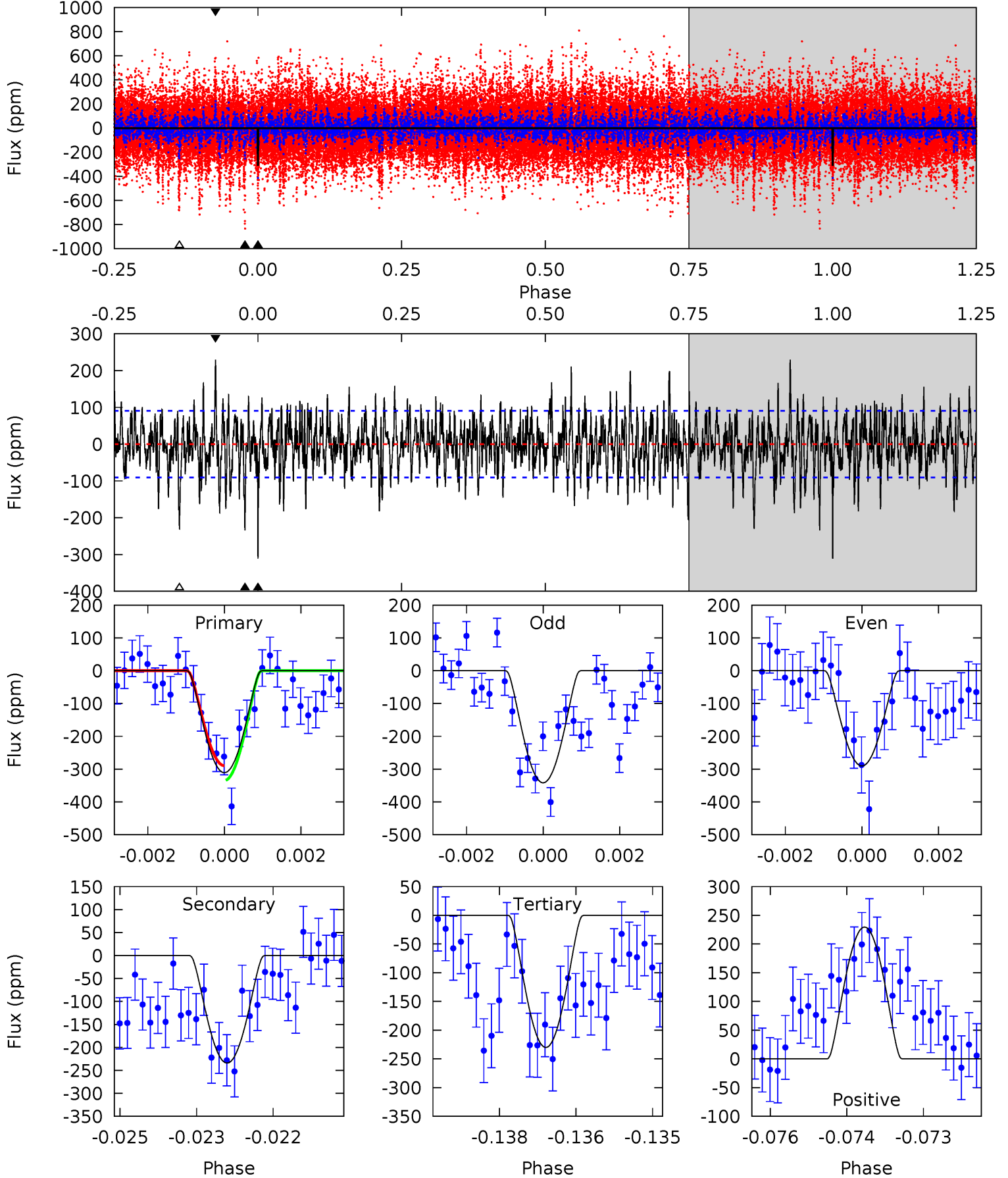
TCE 007049486-03 P=250.978606 Days $T_0=163.404364$ (BKJD)



DV Model-Shift Uniqueness Test

007049486-03, P = 250.981212 Days, E = 163.411135 Days

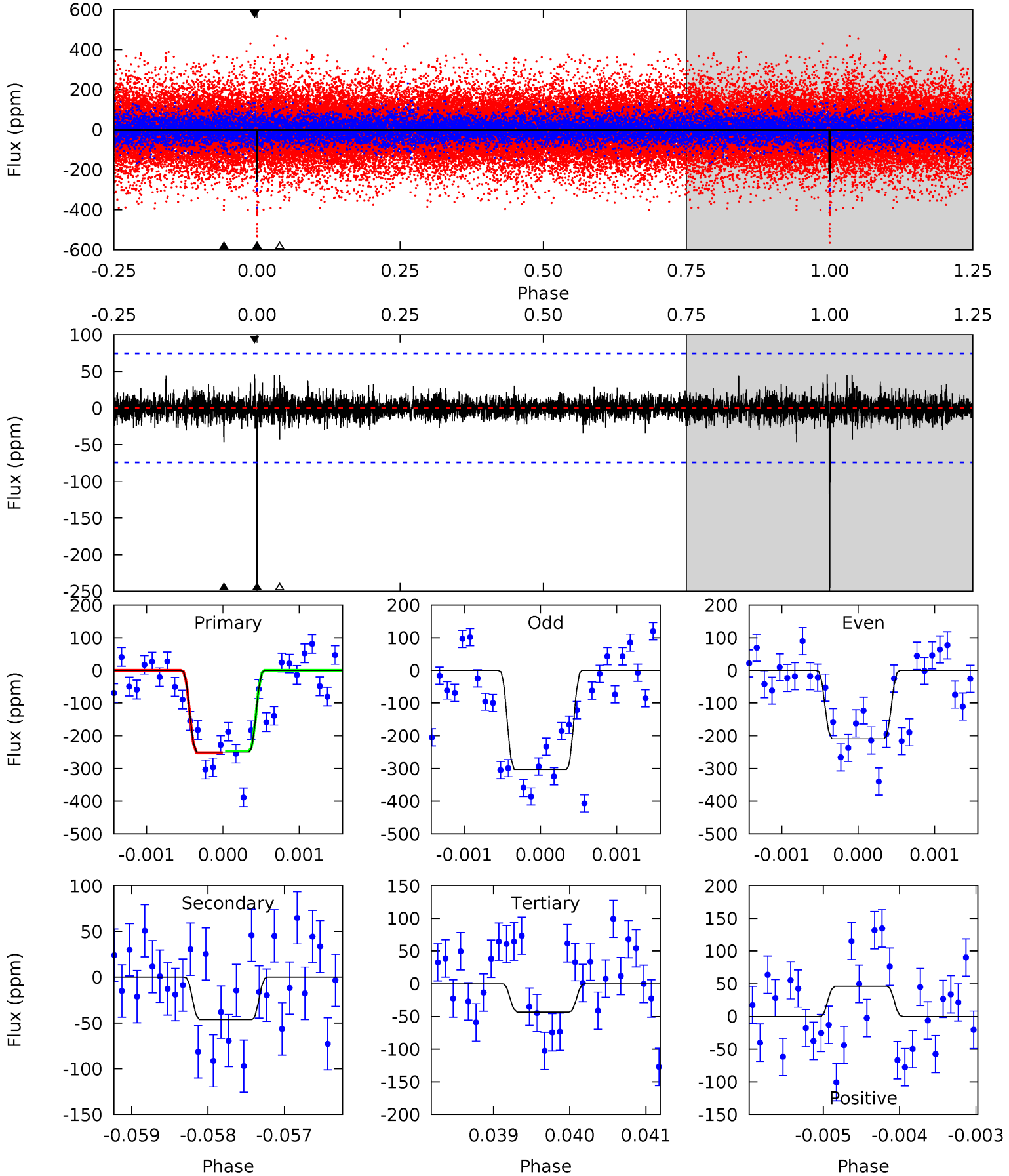
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.4	13.9	13.6	13.6	5.37	3.17	3.56	4.79	4.82	0.24	0.27	1.48	3.19	0.42	1.32



Alt Model-Shift Uniqueness Test

007049486-03, P = 250.978606 Days, E = 163.404364 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.4	3.41	3.19	3.39	5.46	3.30	0.64	15.2	15.0	0.23	0.03	3.47	1.45	0.16	0.17



Stellar Parameters For KIC 007049486

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5957^{+196}_{-196}	$4.168^{+0.300}_{-0.175}$	$-0.420^{+0.300}_{-0.300}$	$1.286^{+0.380}_{-0.418}$	$0.888^{+0.130}_{-0.087}$	$0.588^{+1.114}_{-0.302}$
	+3%/-3%	+7%/-4%	+71%/-71%	+30%/-33%	+15%/-10%	+190%/-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 007049486-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-234 ± 17	$10.92^{+11.31}_{-7.57}$	474^{+39}_{-41}	3172^{+1619}_{-539}	621^{+6081}_{-474}
Alt.	-46 ± 14	$9.39^{+11.58}_{-6.46}$	479^{+39}_{-43}	2650^{+1032}_{-449}	160^{+1544}_{-130}

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 $A_{obs} \gg 1.0$

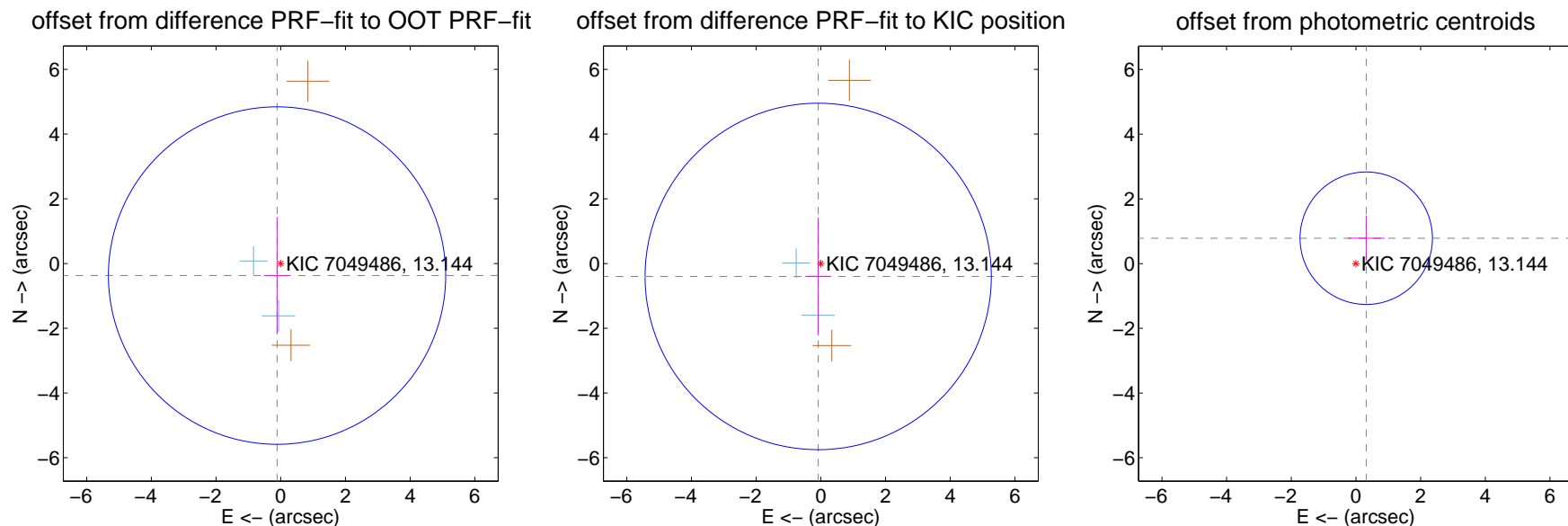
DV Centroid Data

Supplemental centroid analysis for 007049486-03. Kepler magnitude: 13.14. Transit SNR 9.92

There are 2 quarters with good PRF difference image offsets

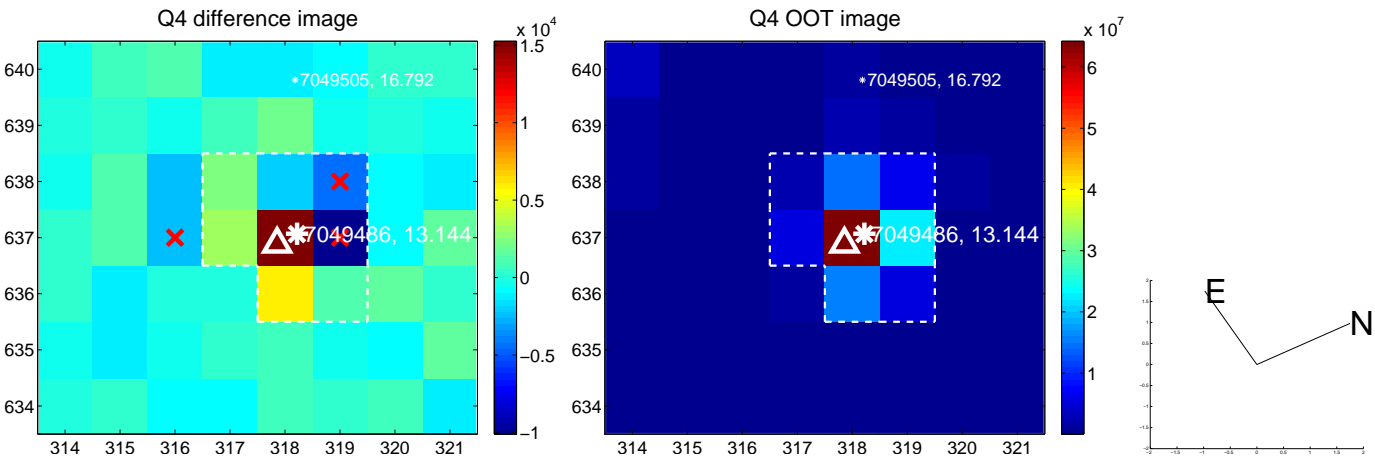
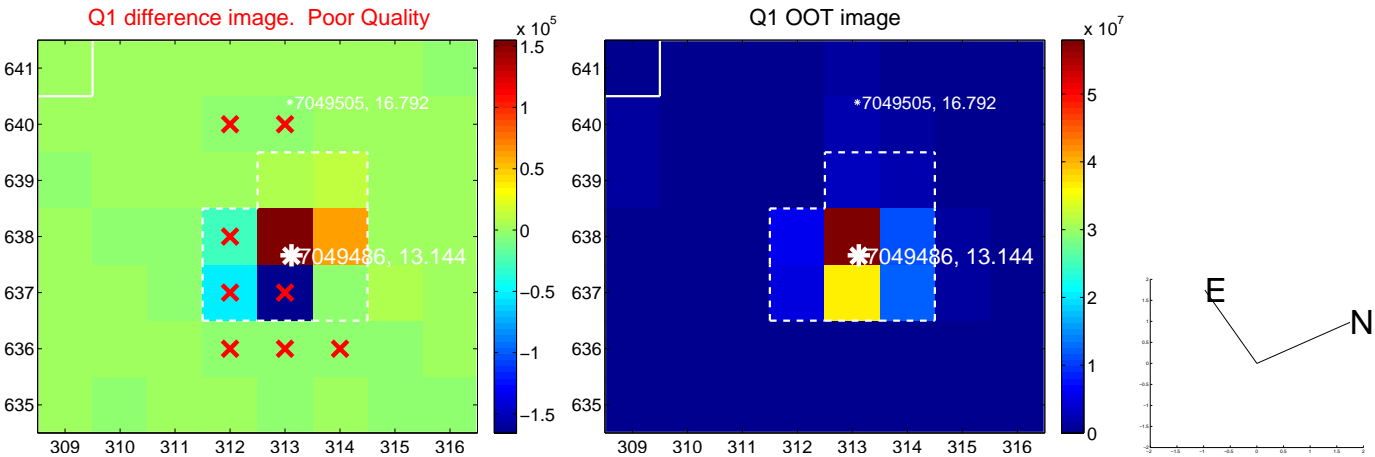
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.389 ± 1.738	0.22	0.114 ± 0.409	-0.372 ± 1.813
PRF-fit source offset from KIC position	0.407 ± 1.784	0.23	0.083 ± 0.394	-0.399 ± 1.820
photometric centroid source offset	0.85 ± 0.68	1.24	-0.32 ± 0.56	0.78 ± 0.70

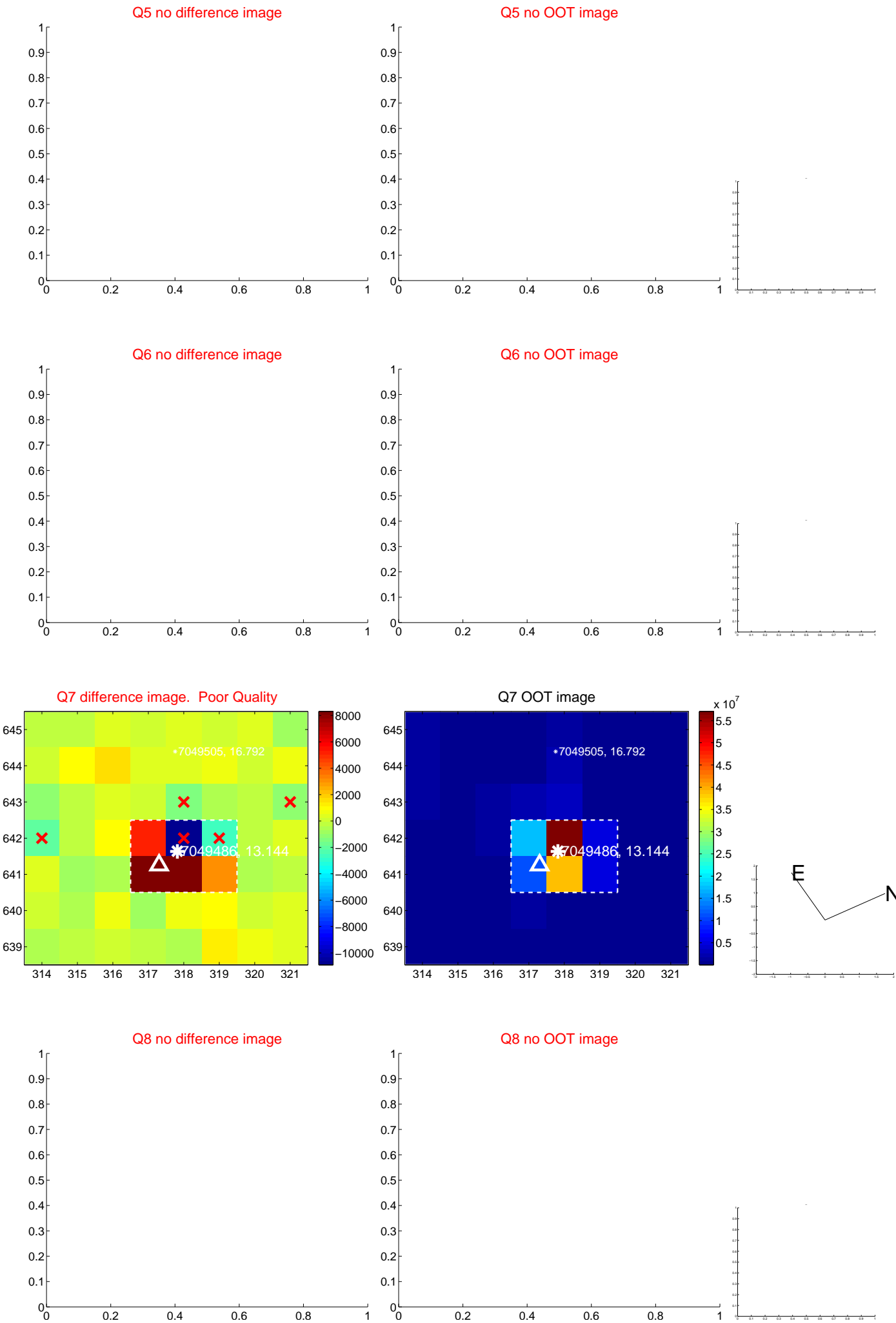


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

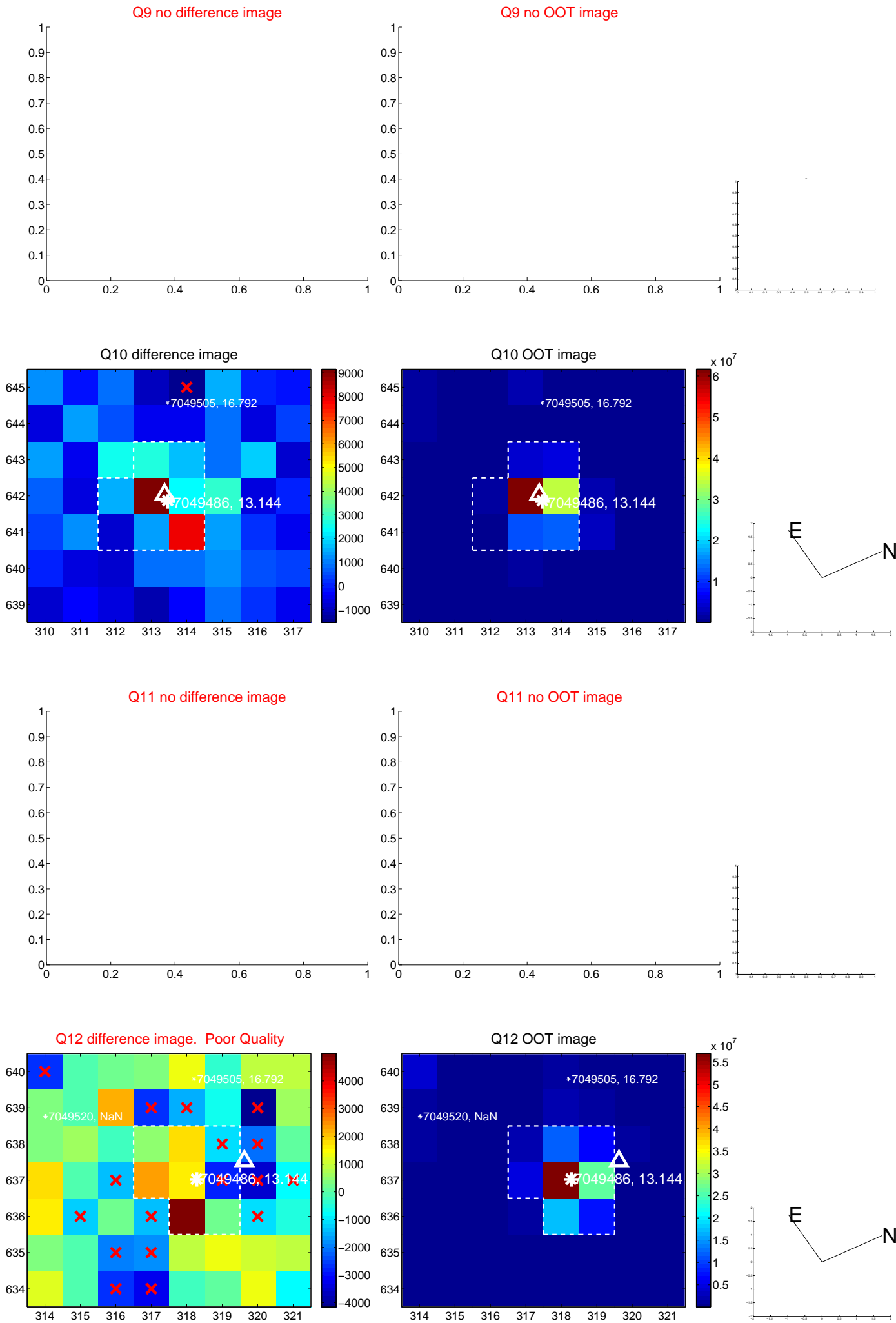
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



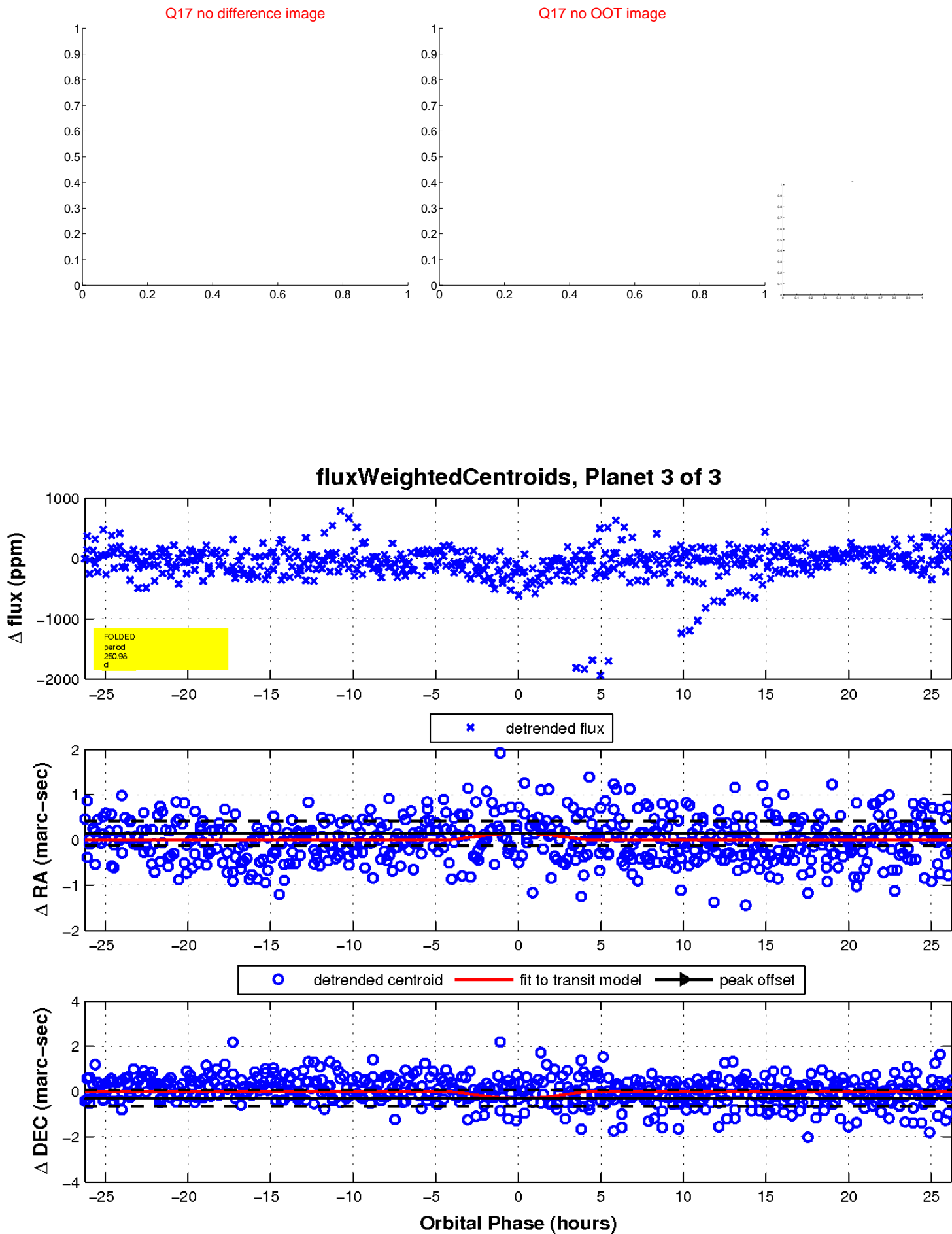
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

