

KIC 006359798

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})
006359798-01	OBS	1121.01	14.154032	140.698428	62125.5	4.475	6249.4	3389.7	1.04	5850	44.42	86.34
006359798-02	OBS	No	14.154027	144.177180	24519.2	4.043	2500.2	1918.9	1.04	5850	28.56	86.34
006359798-03	OBS	No	446.895580	500.891864	276.5	6.000	9.5	-1.0	1.04	5850	1.71	0.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006359798-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006359798-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006359798-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQU_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

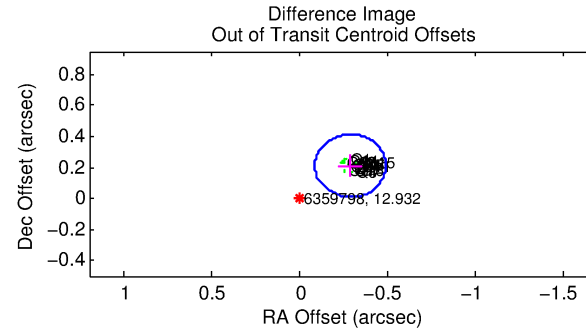
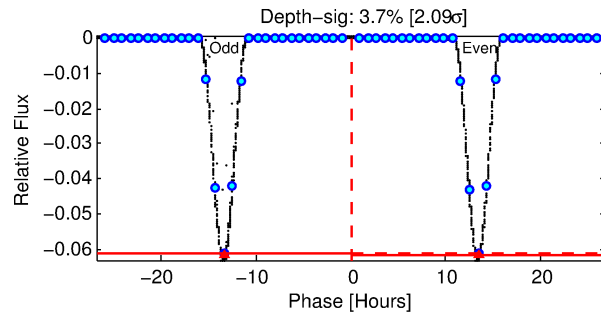
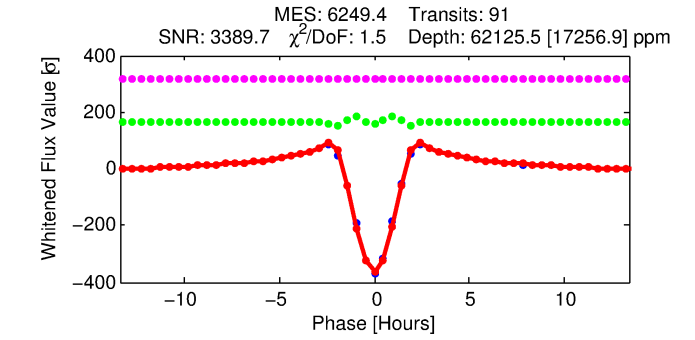
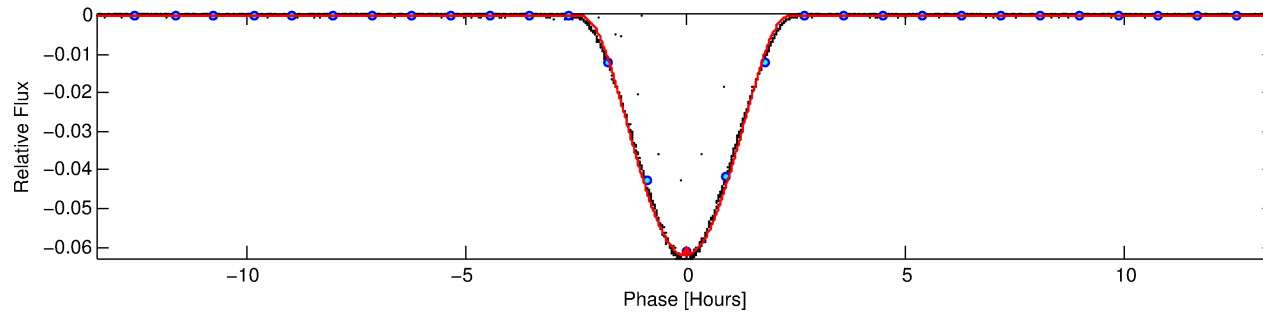
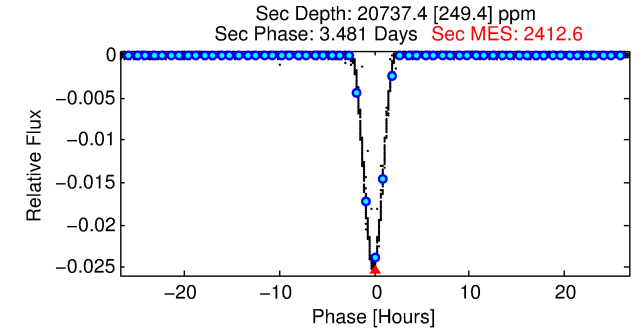
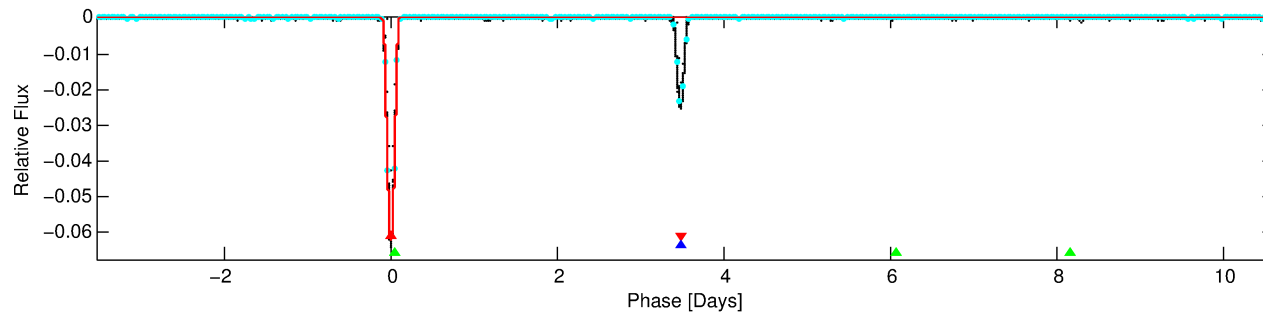
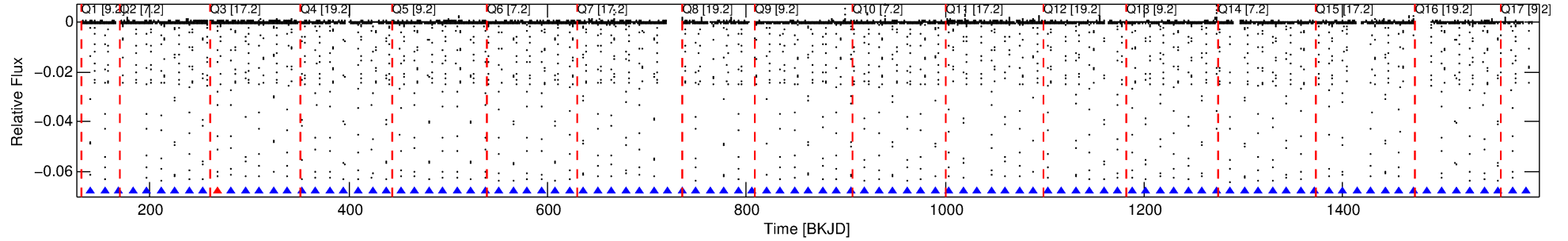
Ephemeris Match Information For 006359798-01

No Significant Match Found

DV One-Page Summary

KIC: 6359798 Candidate: 1 of 3 Period: 14.154 d
KOI: K01121.01 Corr: 0.998

Kp: 12.93 R*: 1.04 Rs Teff: 5850.0 K Logg: 4.40 Fe/H: 0.000



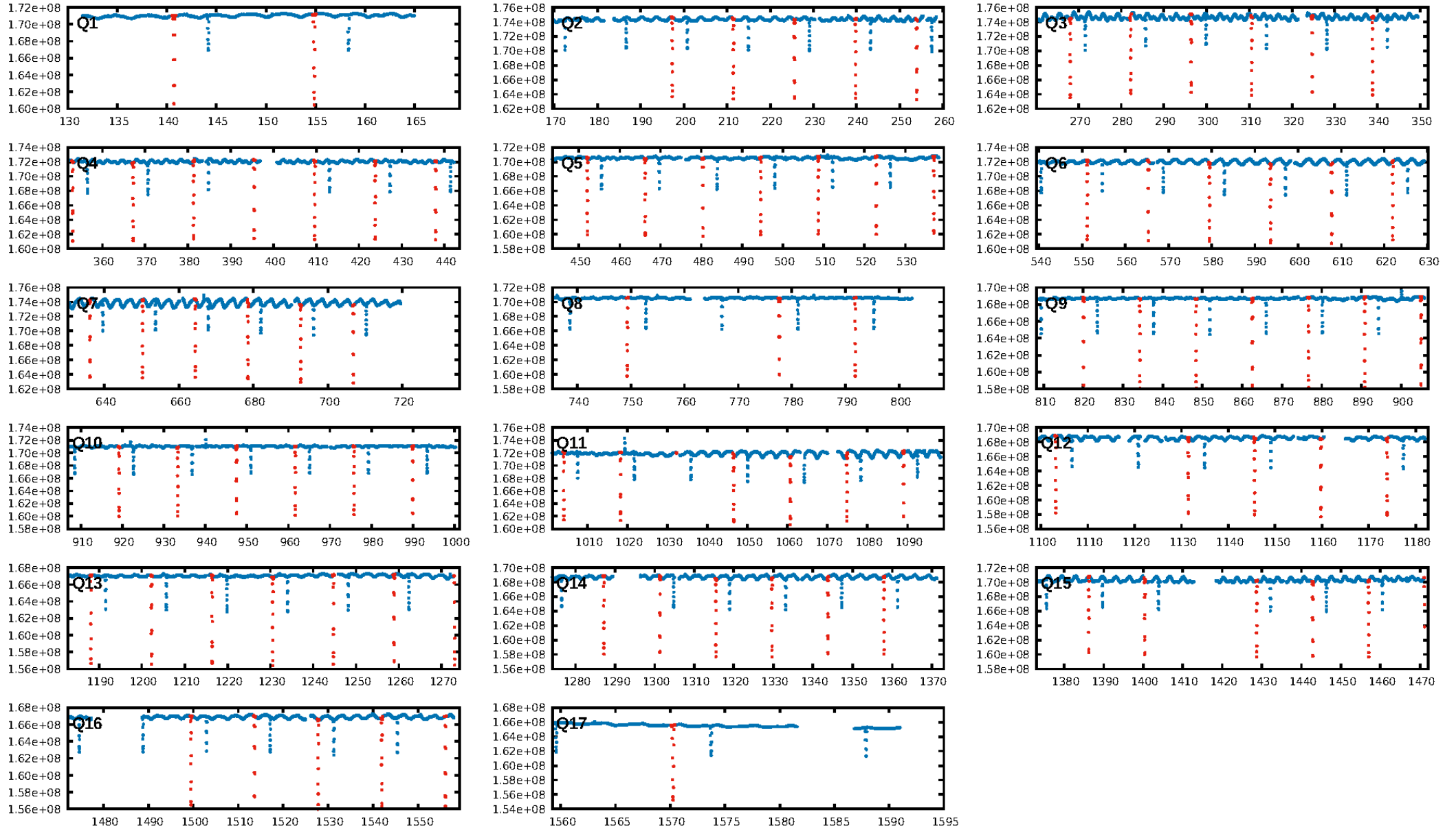
DV Fit Results:

Period = 14.15403 [0.00000] d
Epoch = 140.6984 [0.0000] BKJD
Rp/R* = 0.3925 [0.0125]
a/R* = 23.45 [0.01]
b = 1.00 [0.05]
Seff = 86.34 [19.58]
Teq = 777 [44] K
Rp = 44.42 [7.17] Re
a = 0.1143 [0.0160] AU
Ag = 75.58 [16.77] [4.45σ]
Teffp = 3543 [91] K [27.30σ]

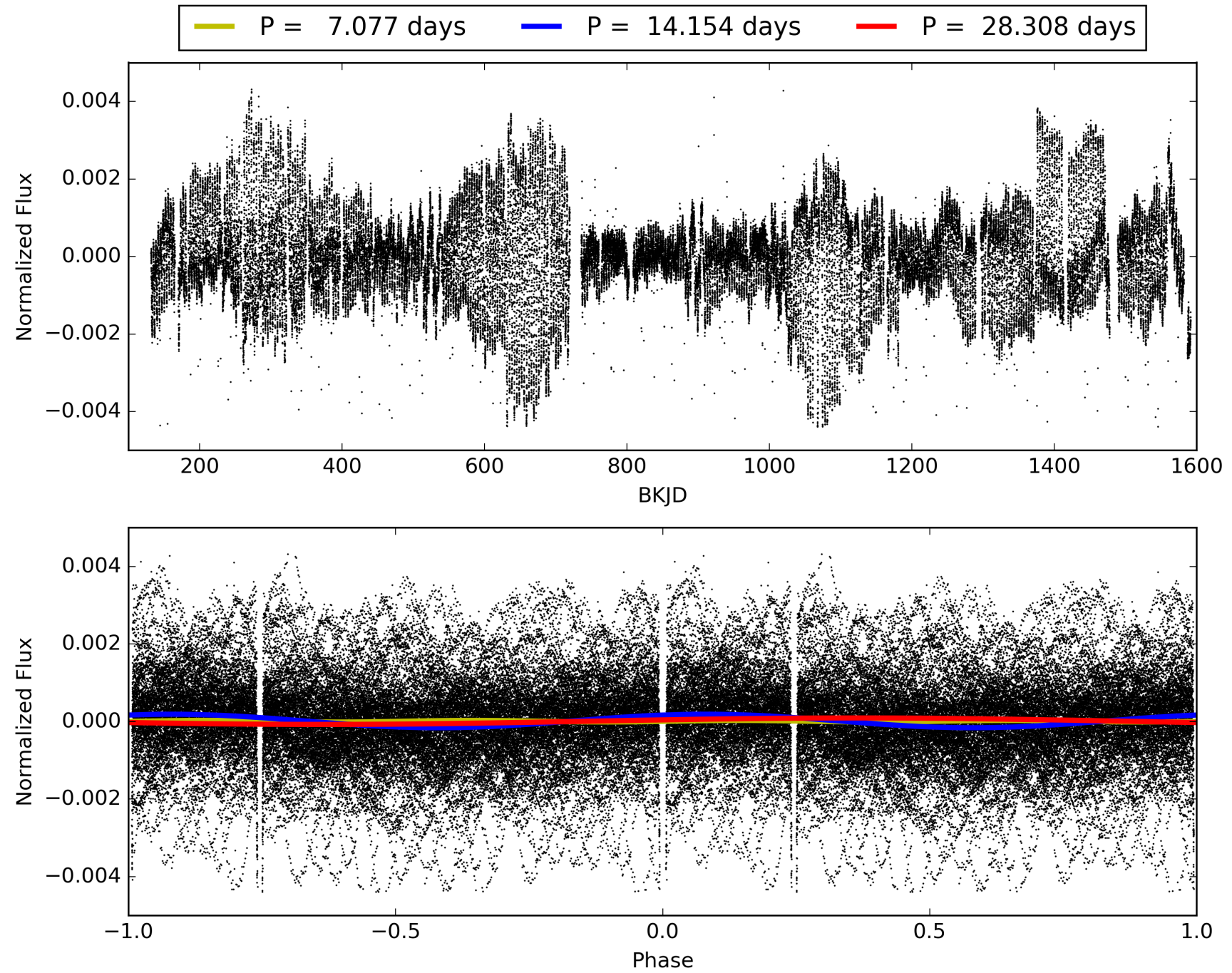
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [1387.59σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGoF-sig: 100.0%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.99 [87/88]
GhostDiagnostic-chr: 9.673
Centroid-sig: 0.0%
Centroid-so: 0.120 arcsec [35.55σ]
OotOffset-rm: 0.358 arcsec [5.32σ]
KicOffset-rm: 0.097 arcsec [1.44σ]
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 006359798-01, PDC Light Curves

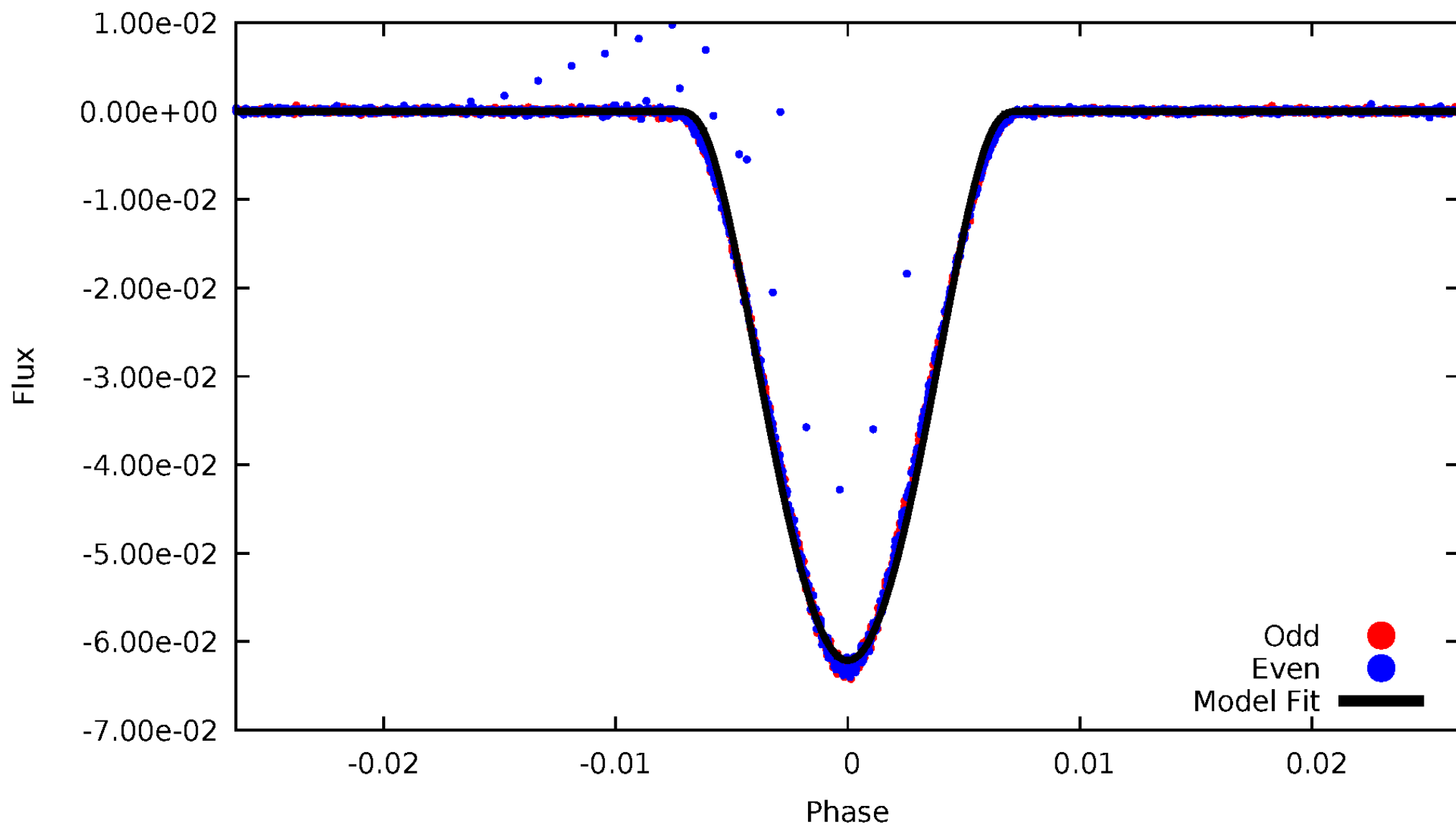


TCE 006359798-01



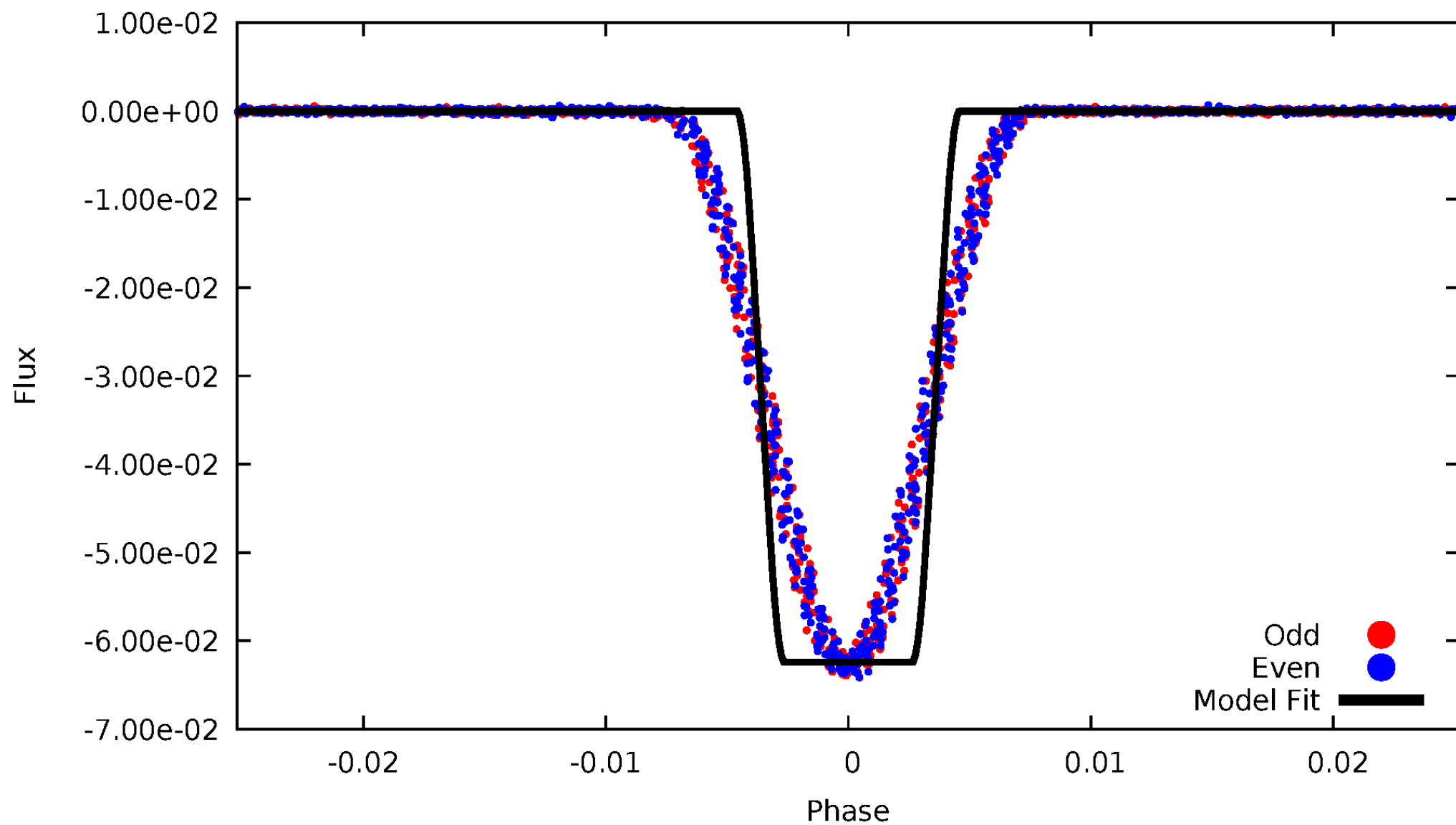
DV Odd/Even

TCE 006359798-01



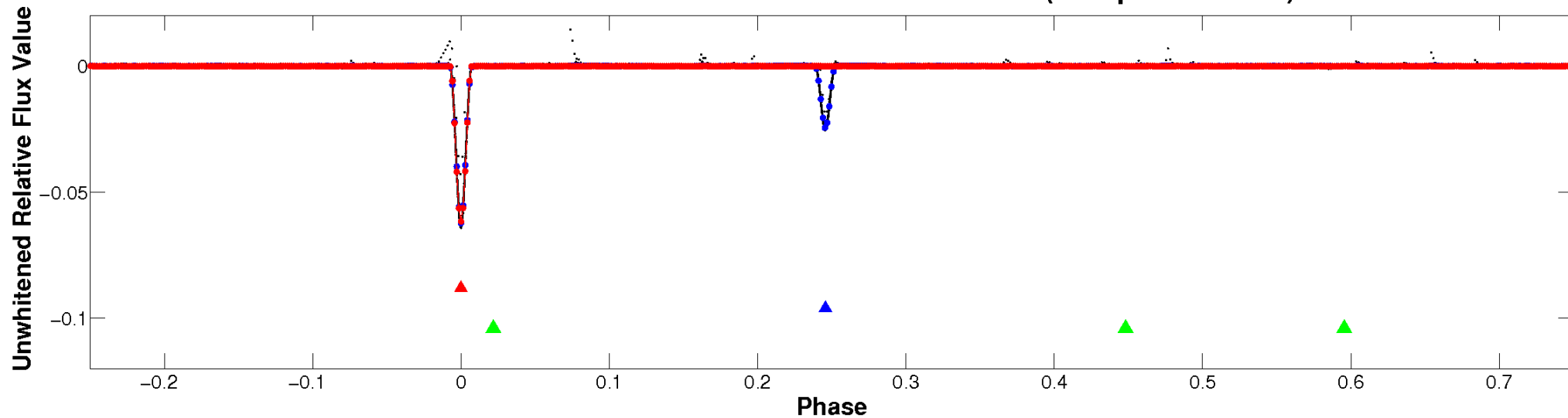
ALT Odd/Even

TCE 006359798-01

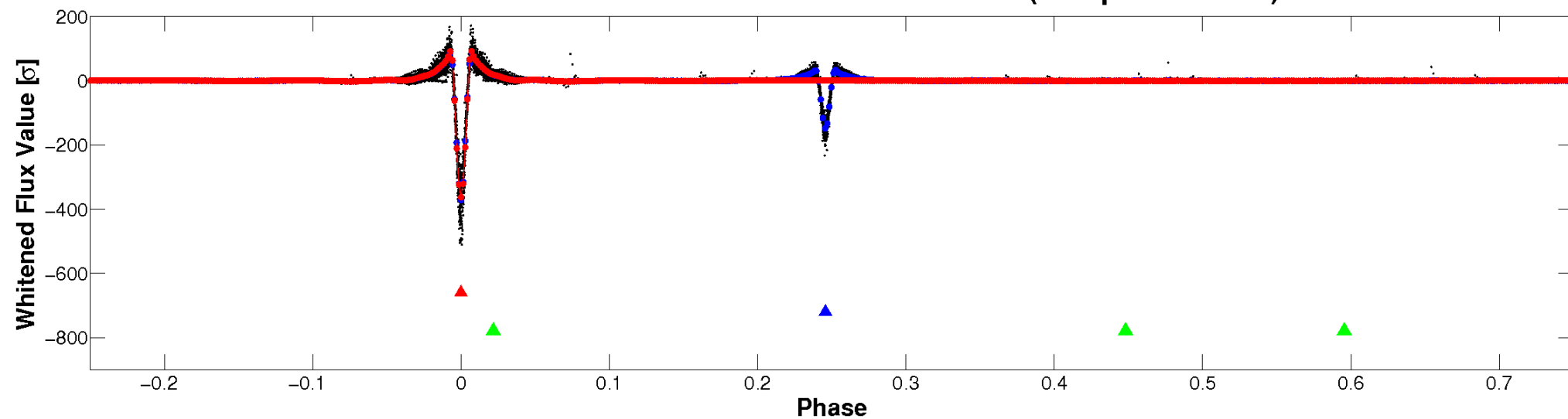


Non-Whitened Vs. Whitened Light Curve

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

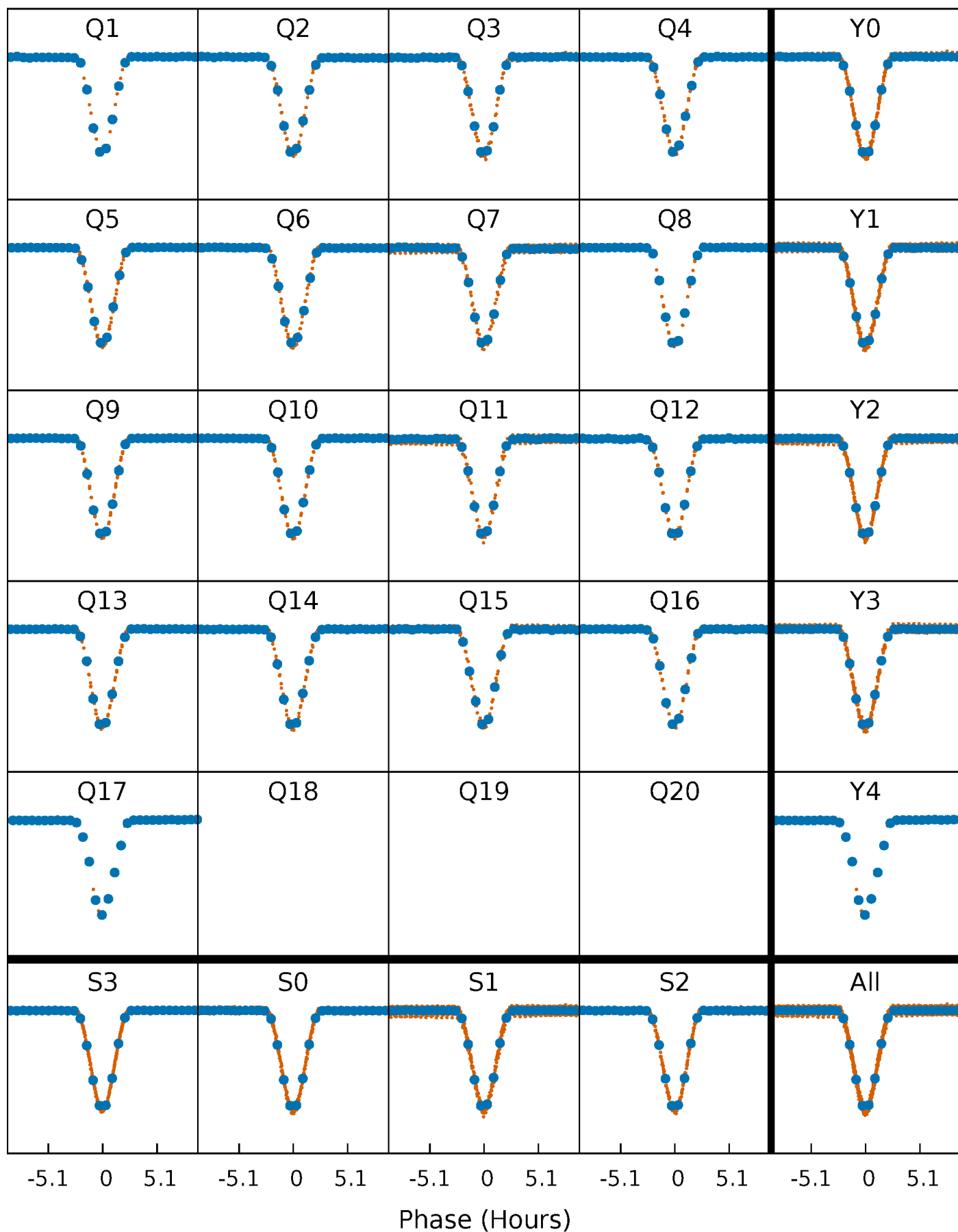


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



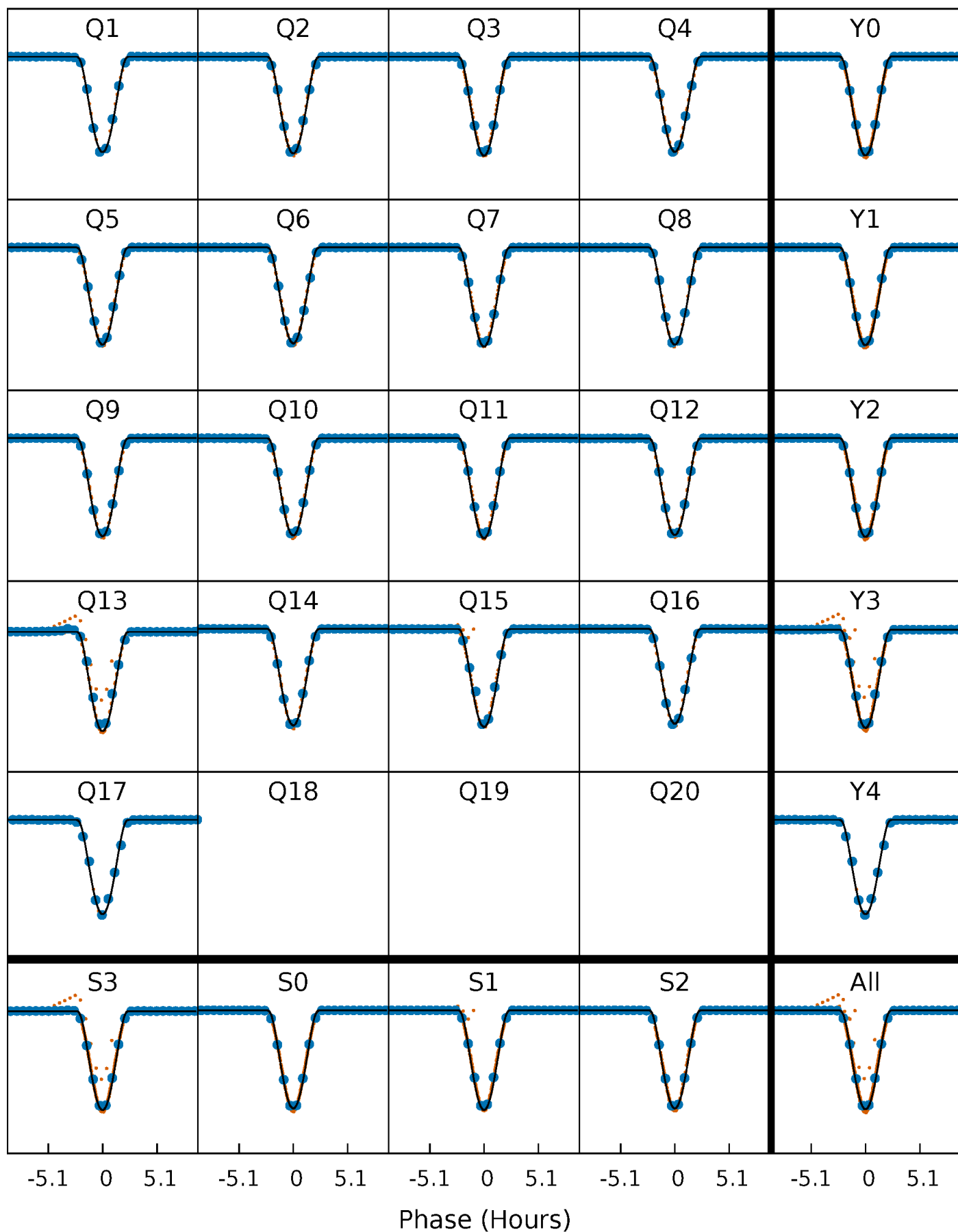
PDC Quarter-Phased Transit Curves

TCE 006359798-01 P= 14.154032 Days $T_0=140.698428$ (BKJD)



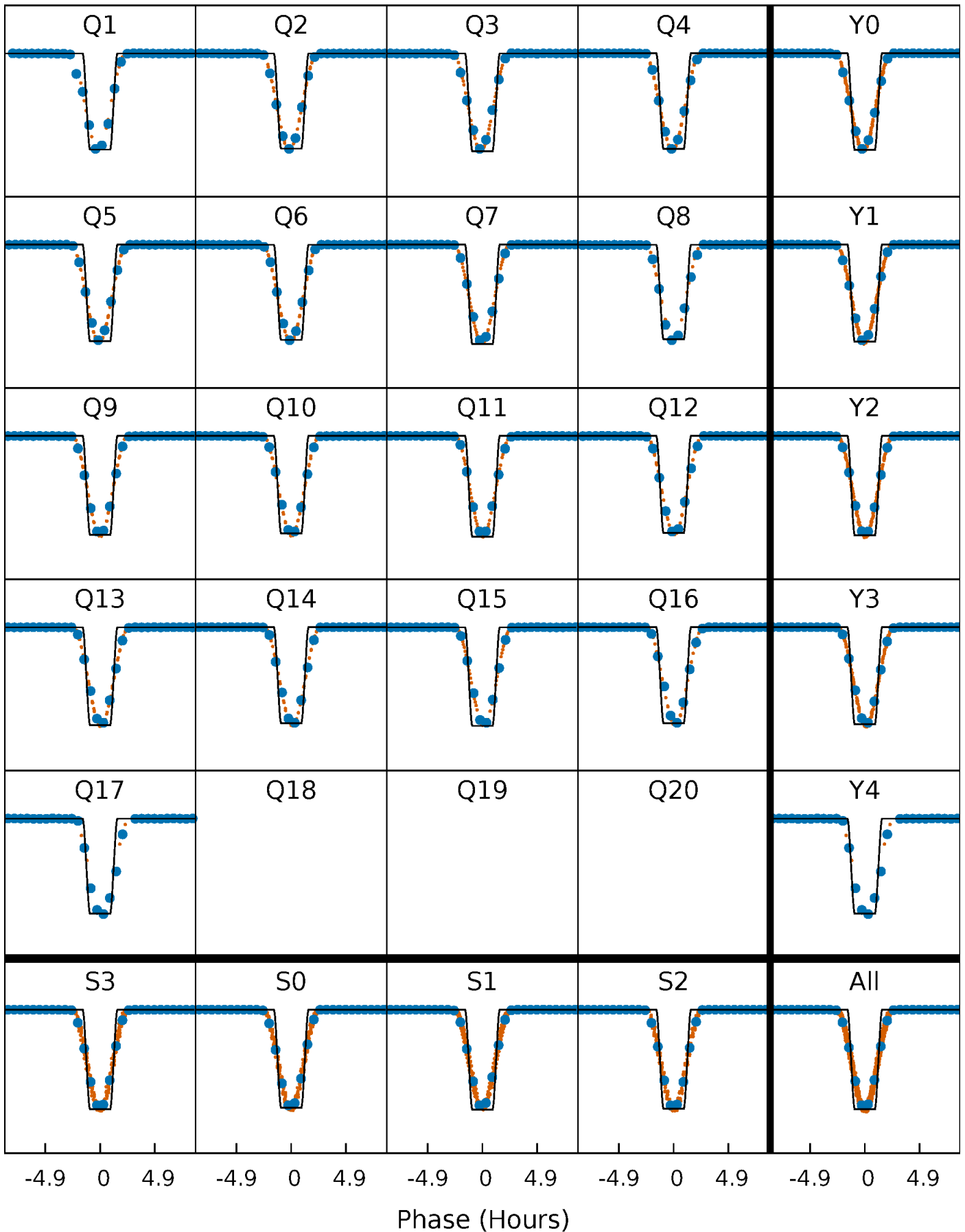
DV Quarter-Phased Transit Curves

TCE 006359798-01 P= 14.154032 Days $T_0=140.698428$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

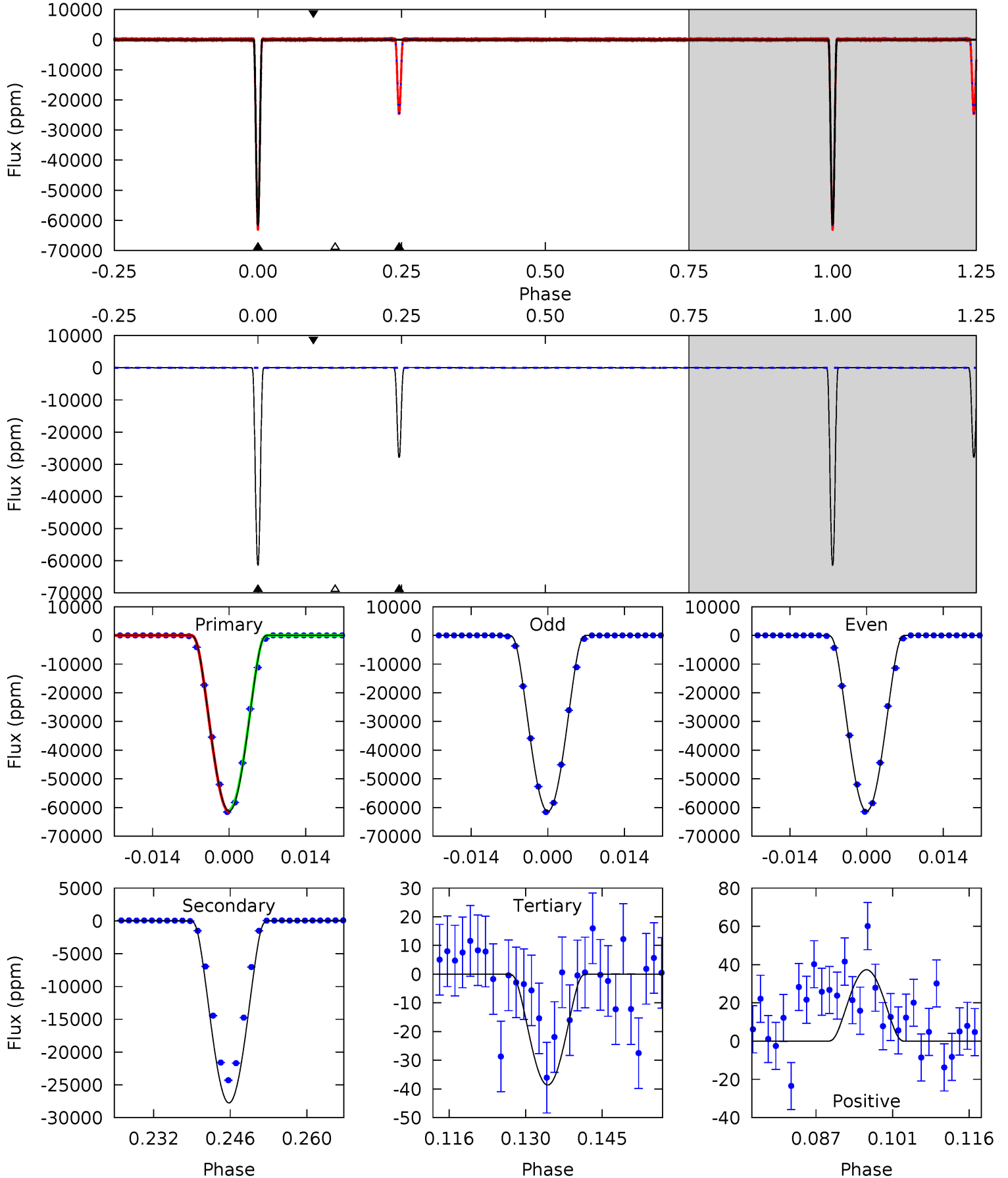
TCE 006359798-01 P= 14.153889 Days $T_0=140.705526$ (BKJD)



DV Model-Shift Uniqueness Test

006359798-01, P = 14.154032 Days, E = 126.544396 Days

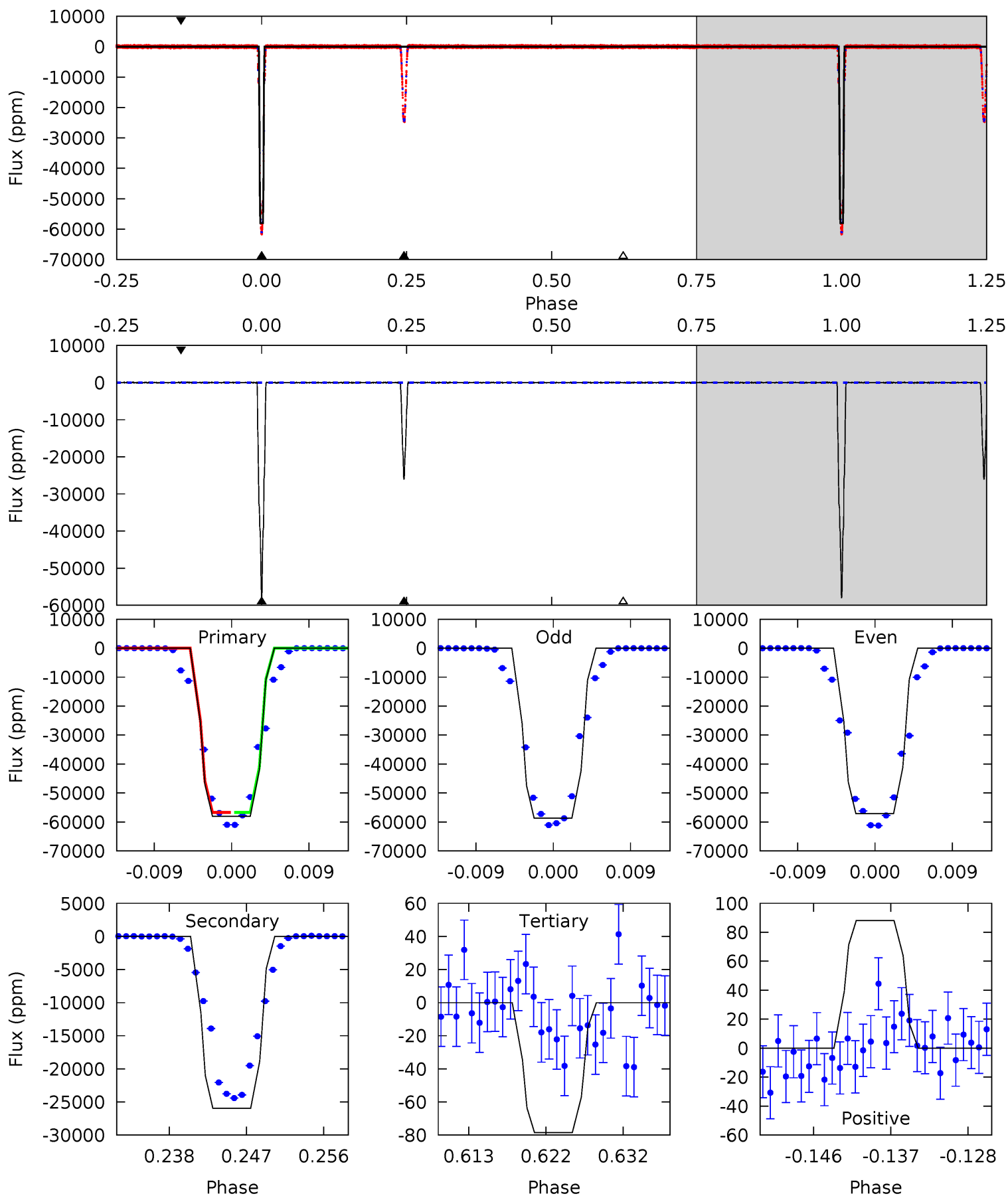
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11205	5073	7.06	6.82	4.95	2.45	3.38	11198	11199	5066	5066	3.29	0.98	0.00	5.77



Alt Model-Shift Uniqueness Test

006359798-01, P = 14.153889 Days, E = 126.551637 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3183	1424	4.31	4.83	5.04	2.61	1.08	3178	3178	1420	1419	41.2	1.00	0.00	0



Stellar Parameters For KIC 006359798

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5850^{+105}_{-117}	$4.404^{+0.080}_{-0.120}$	$0.000^{+0.150}_{-0.150}$	$1.037^{+0.164}_{-0.101}$	$0.994^{+0.074}_{-0.066}$	$1.254^{+0.405}_{-0.432}$
	+2%/-2%	+2%/-3%	+inf%/-inf%	+16%/-10%	+7%/-7%	+32%/-34%
Source	SPE57	SPE57	SPE57	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006359798-01 / KOI 1121.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-27755 ± 5	$44.93^{+4.22}_{-3.35}$	1091^{+49}_{-40}	4118^{+76}_{-78}	101^{+16}_{-15}
Alt.	-25973 ± 18	$28.56^{+2.94}_{-2.32}$	1092^{+46}_{-38}	4841^{+136}_{-130}	235^{+41}_{-39}

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 $A_{obs} \gg 1.0$

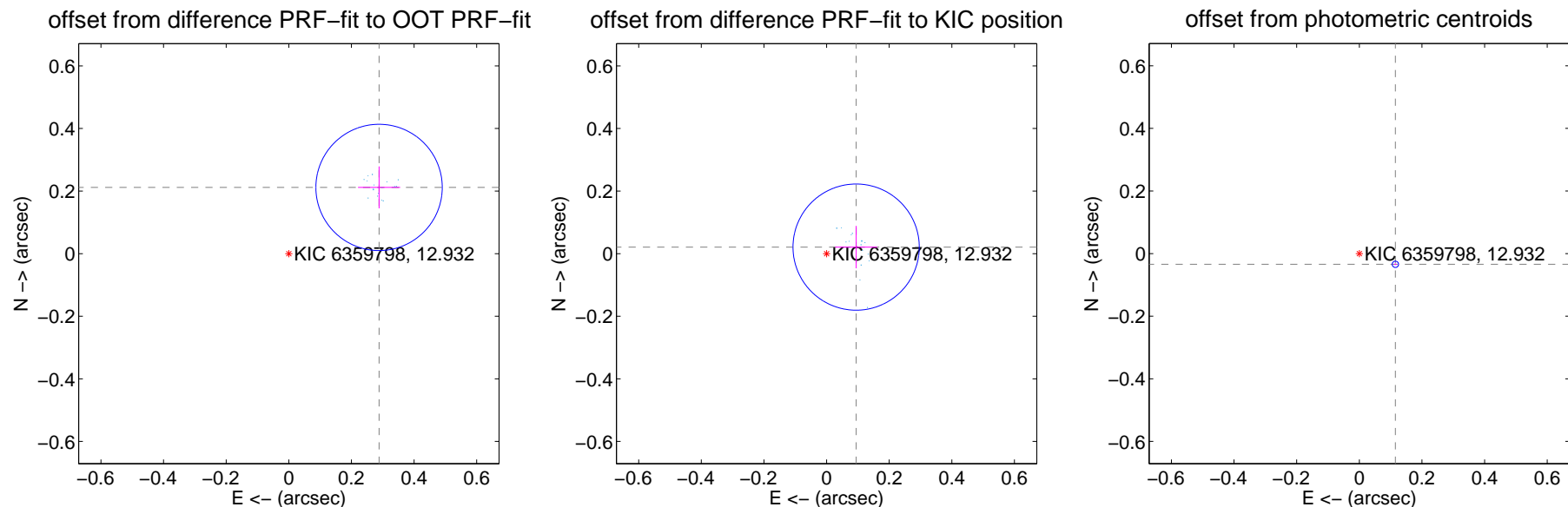
DV Centroid Data

Supplemental centroid analysis for 006359798-01. Kepler magnitude: 12.93. Transit SNR 3389.67

There are 17 quarters with good PRF difference image offsets

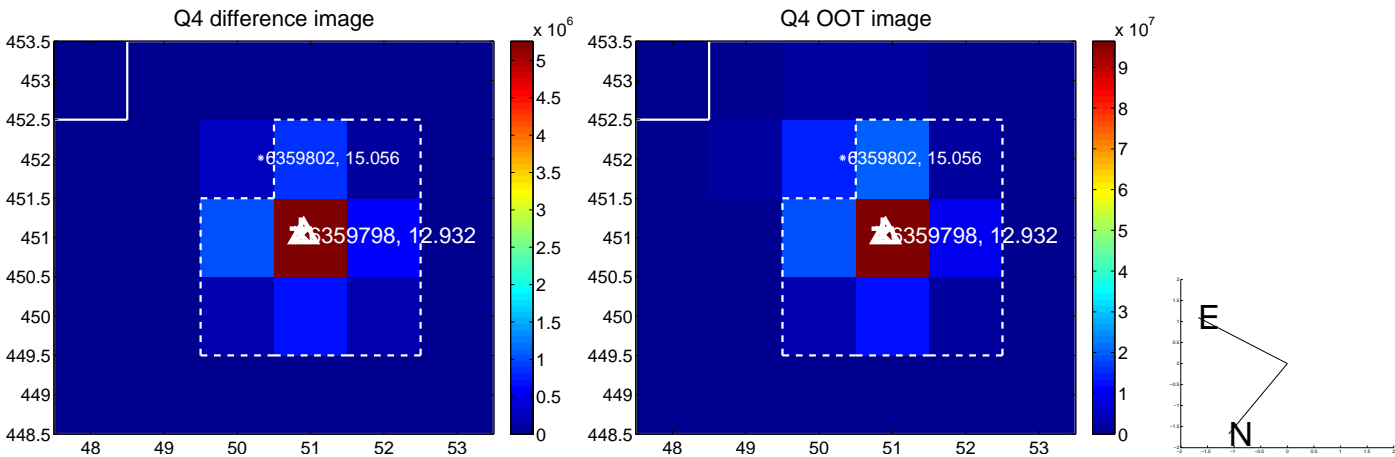
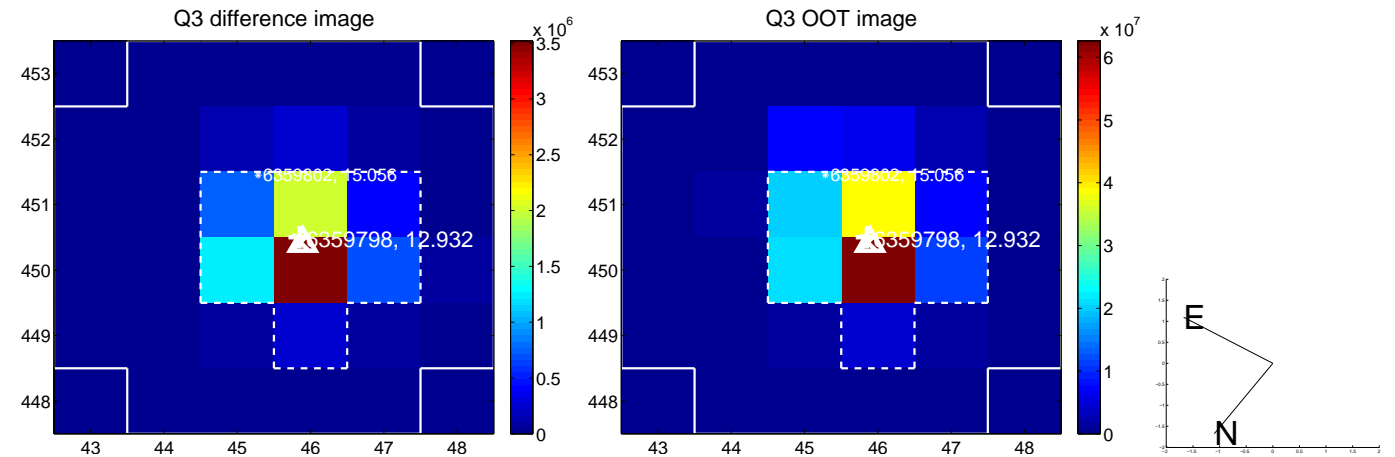
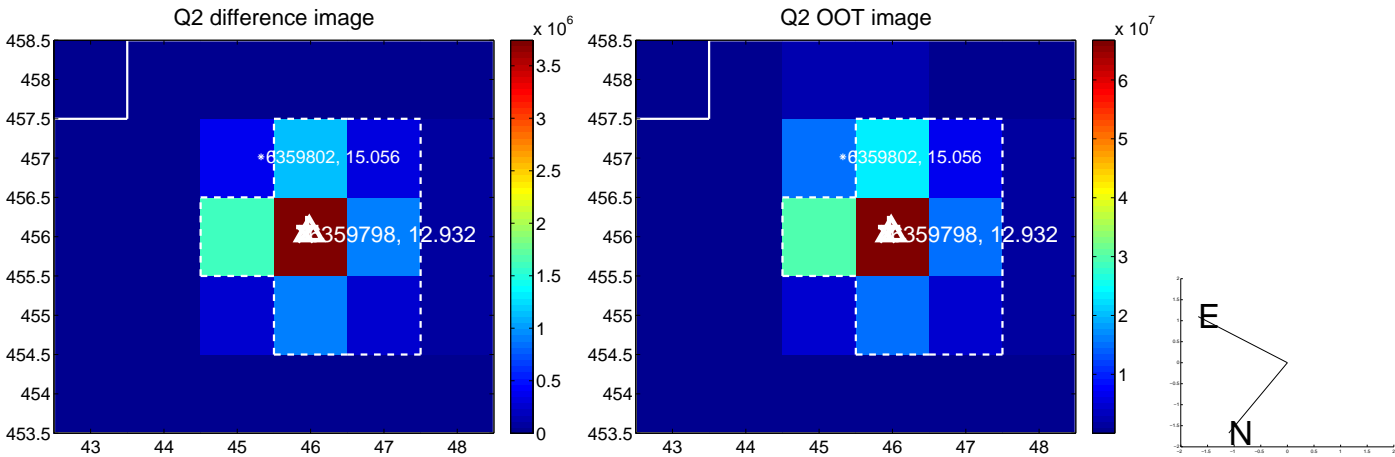
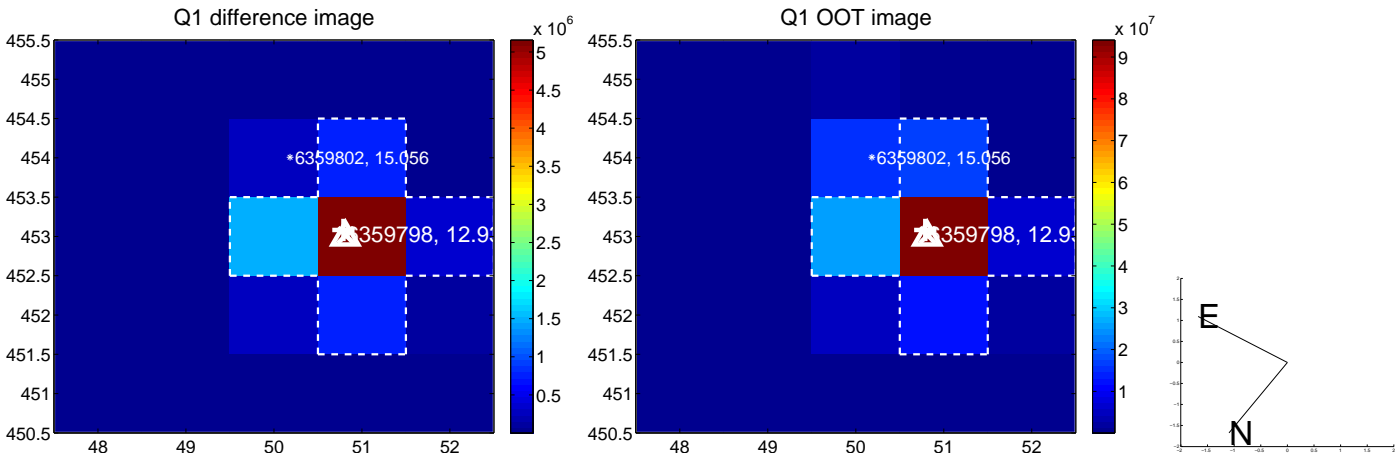
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.358 ± 0.067	5.32	-0.288 ± 0.067	0.212 ± 0.067
PRF-fit source offset from KIC position	0.097 ± 0.067	1.44	-0.094 ± 0.067	0.021 ± 0.068
photometric centroid source offset	0.12 ± 0.00	35.55	-0.12 ± 0.00	-0.03 ± 0.00

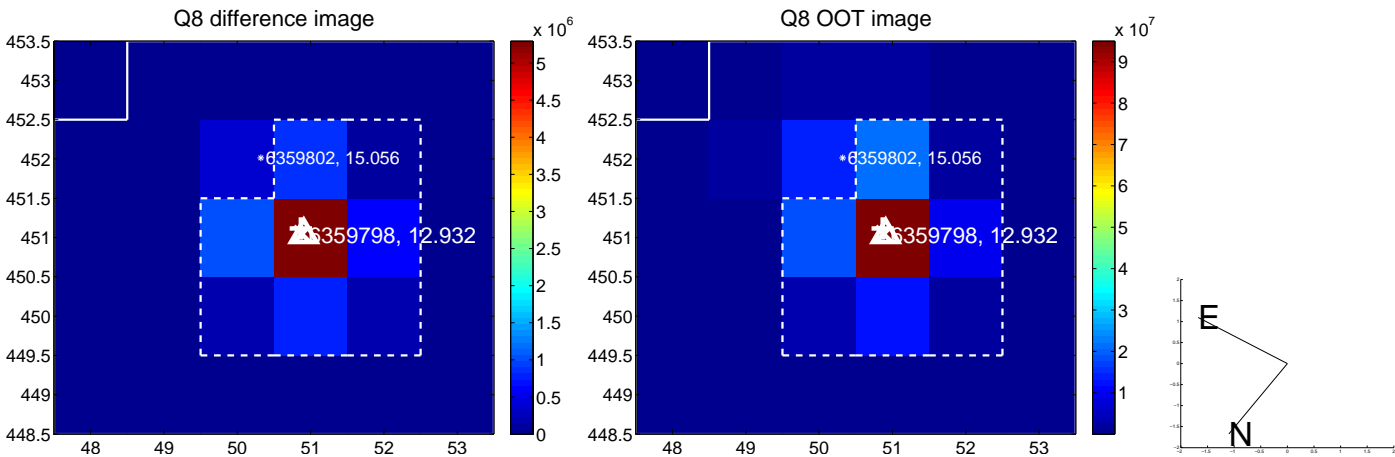
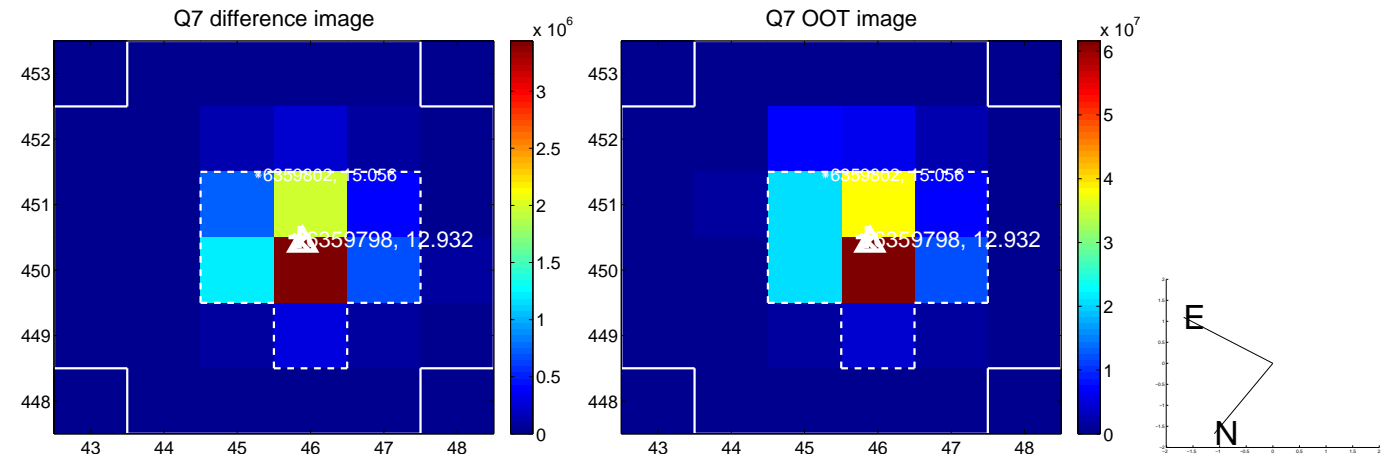
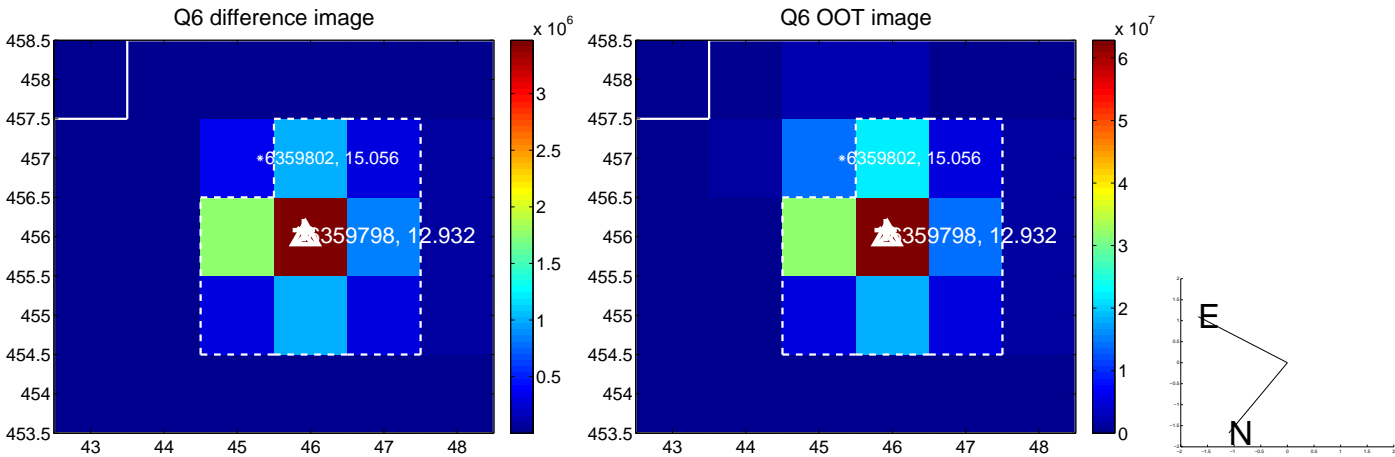
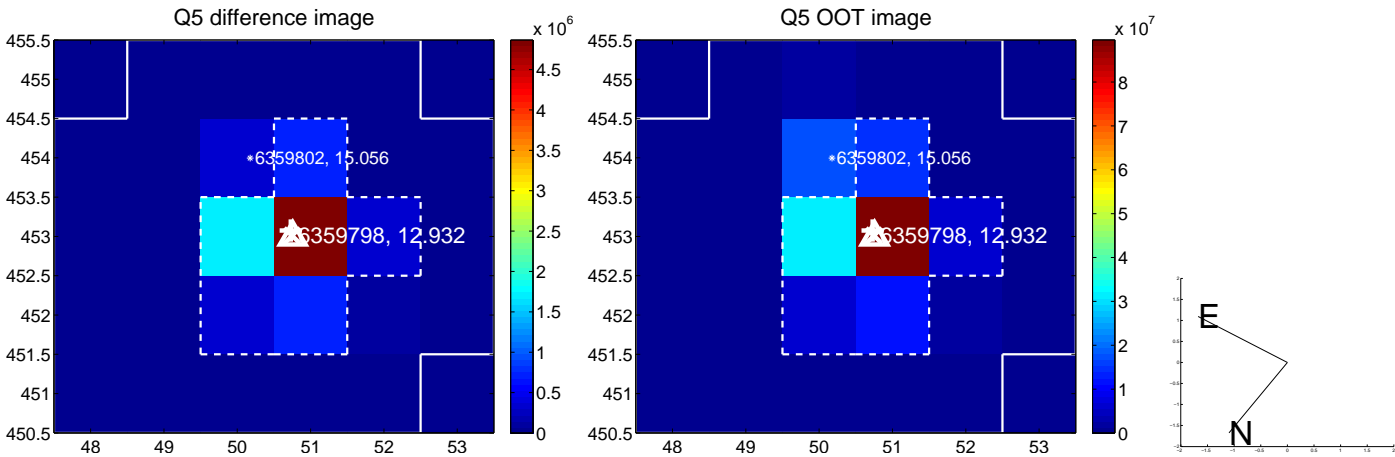


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

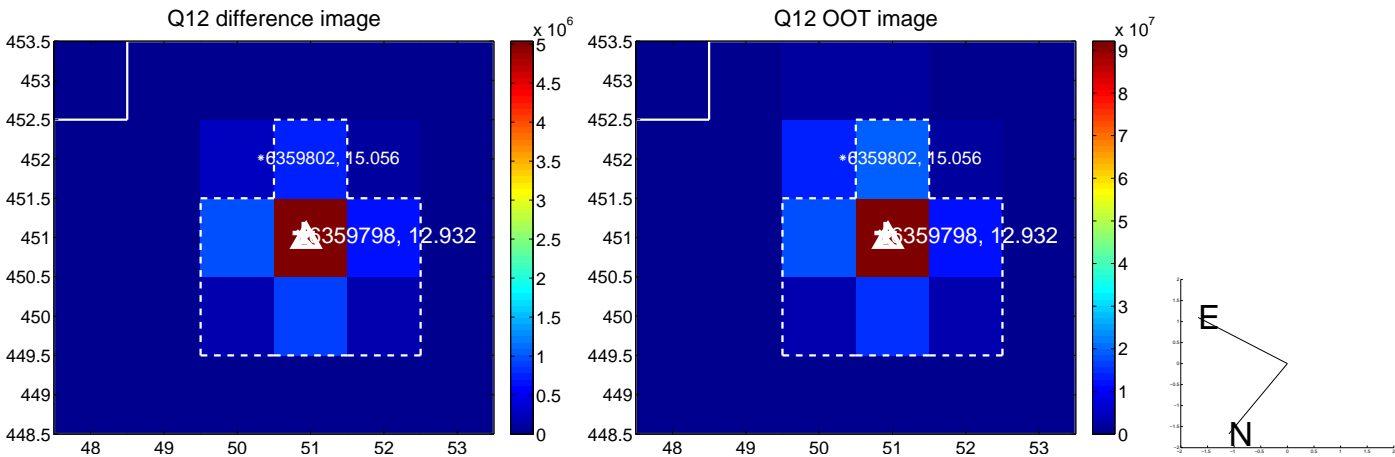
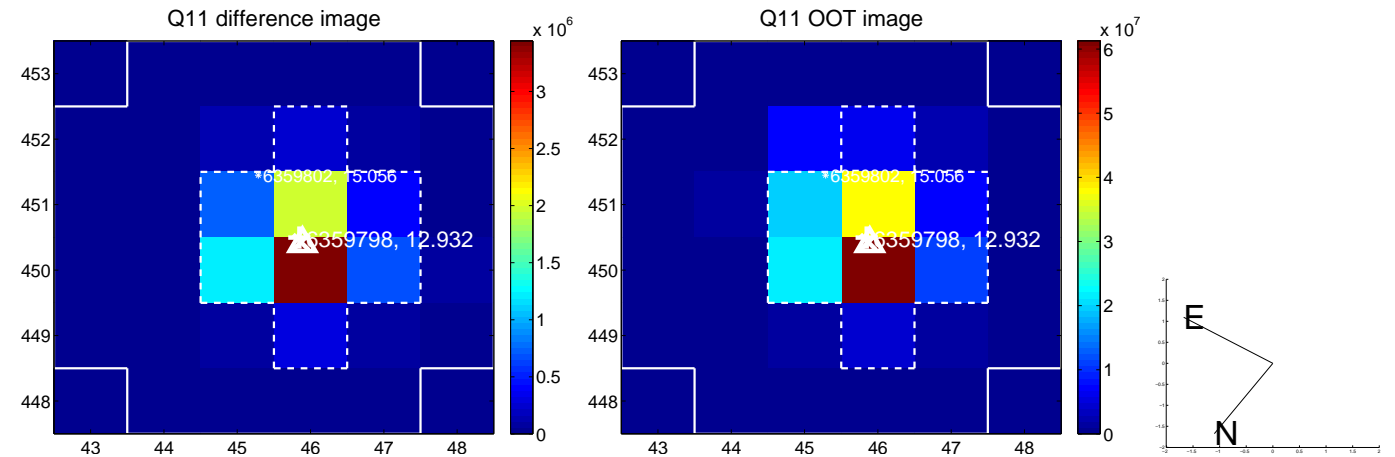
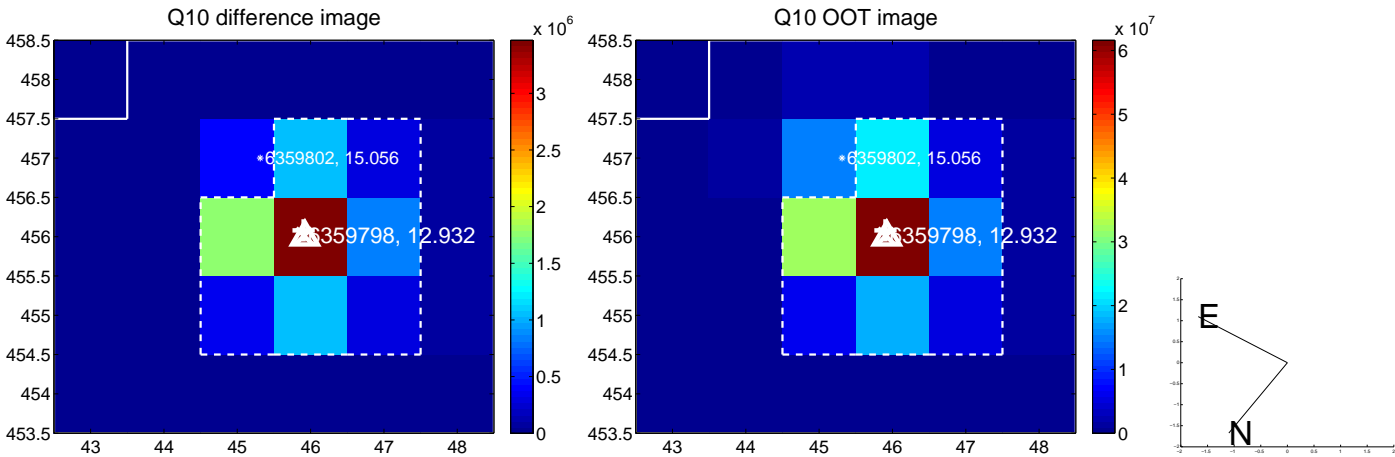
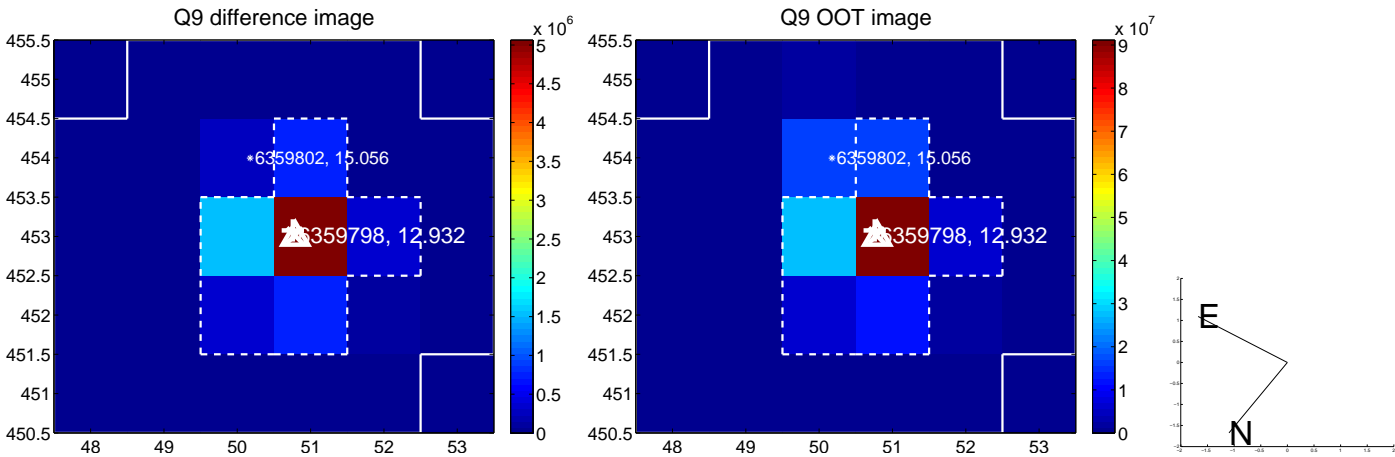
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



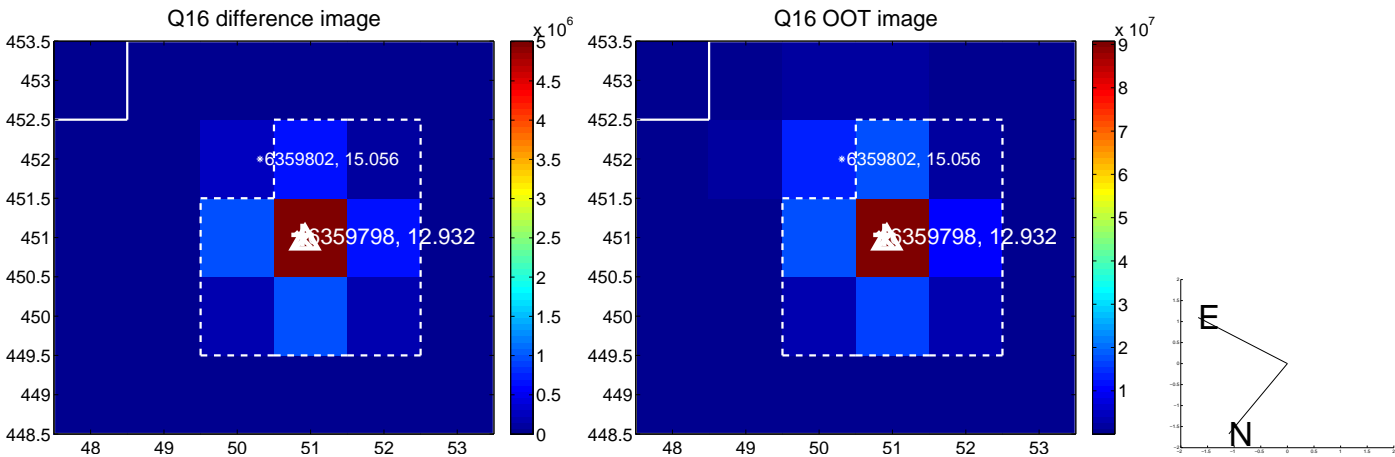
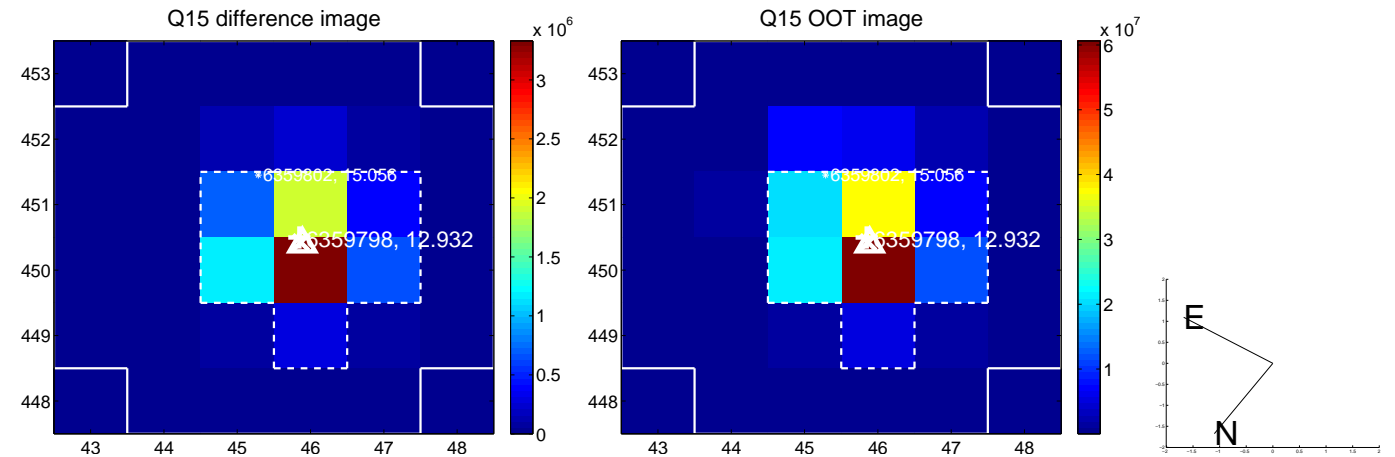
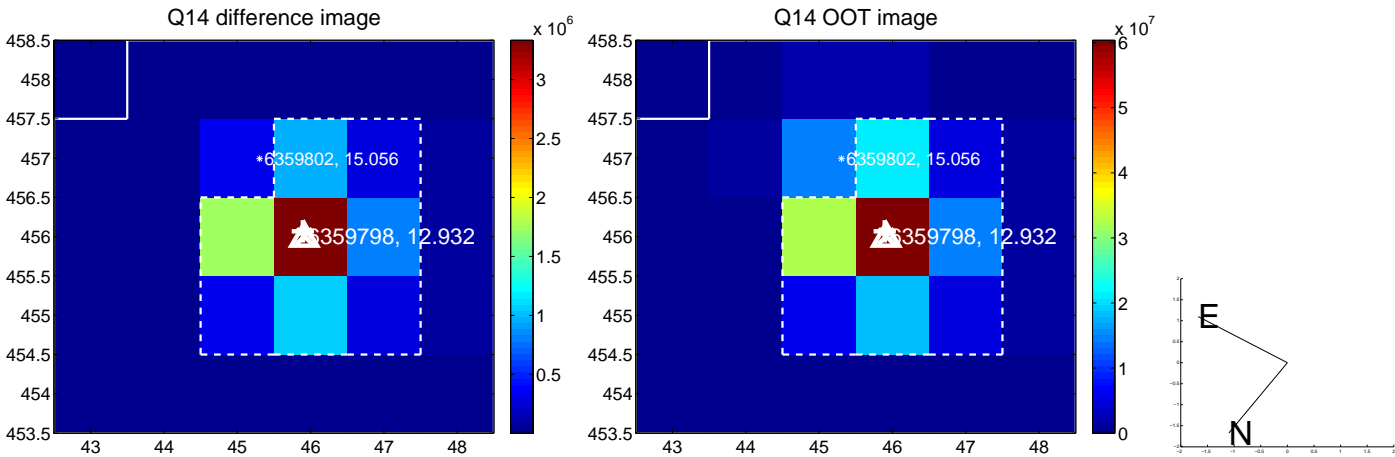
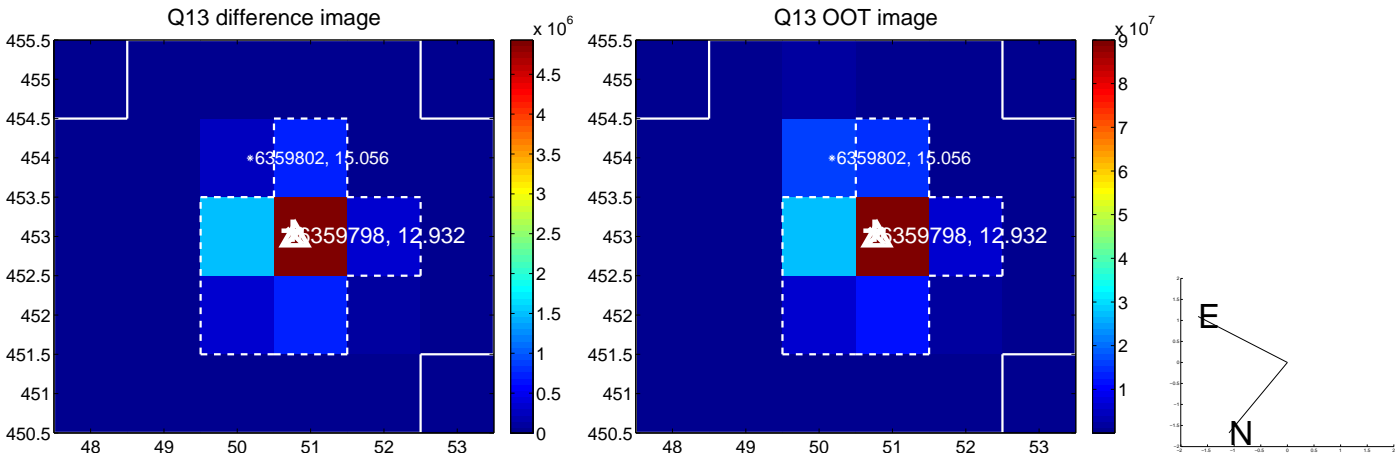
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



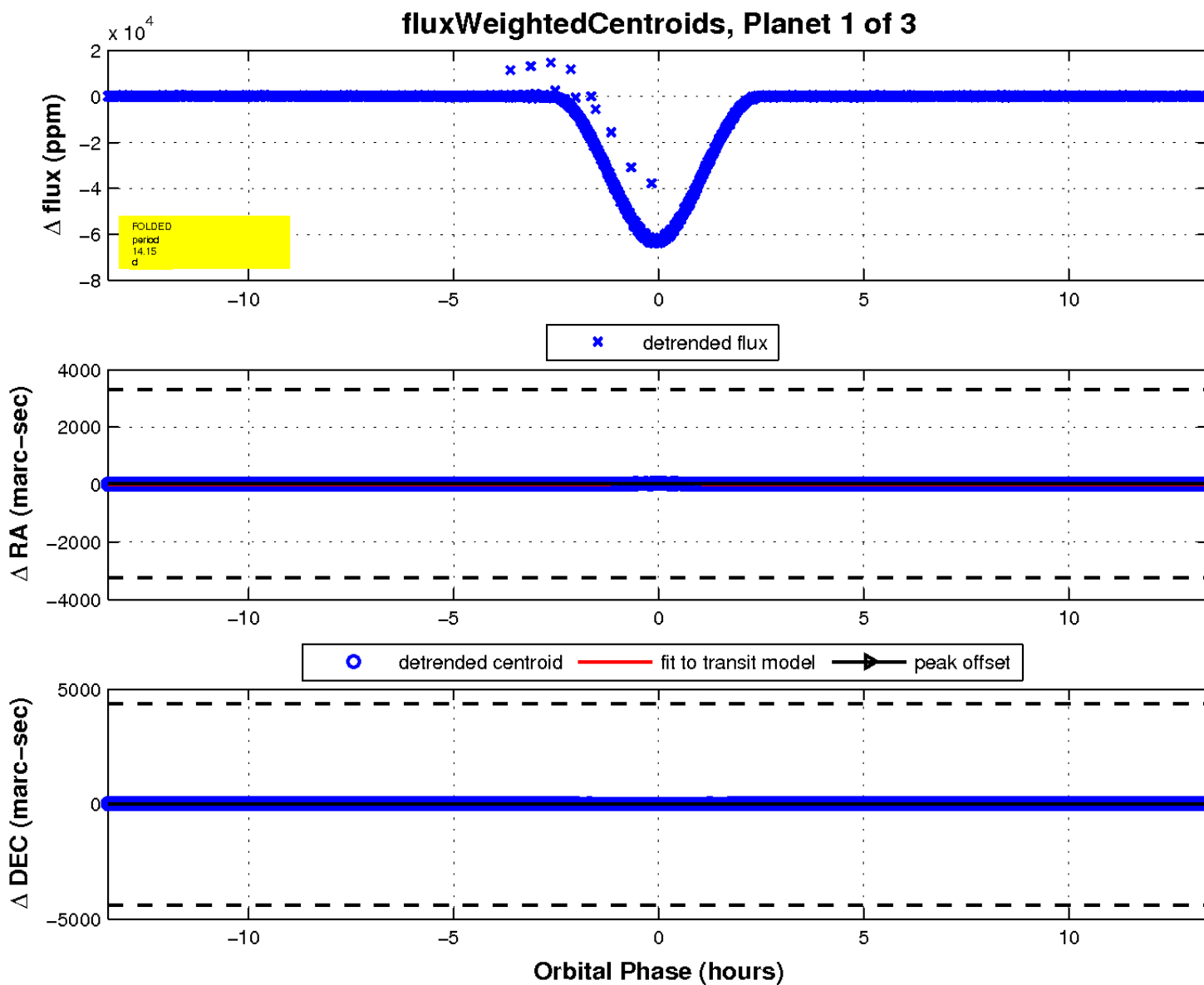
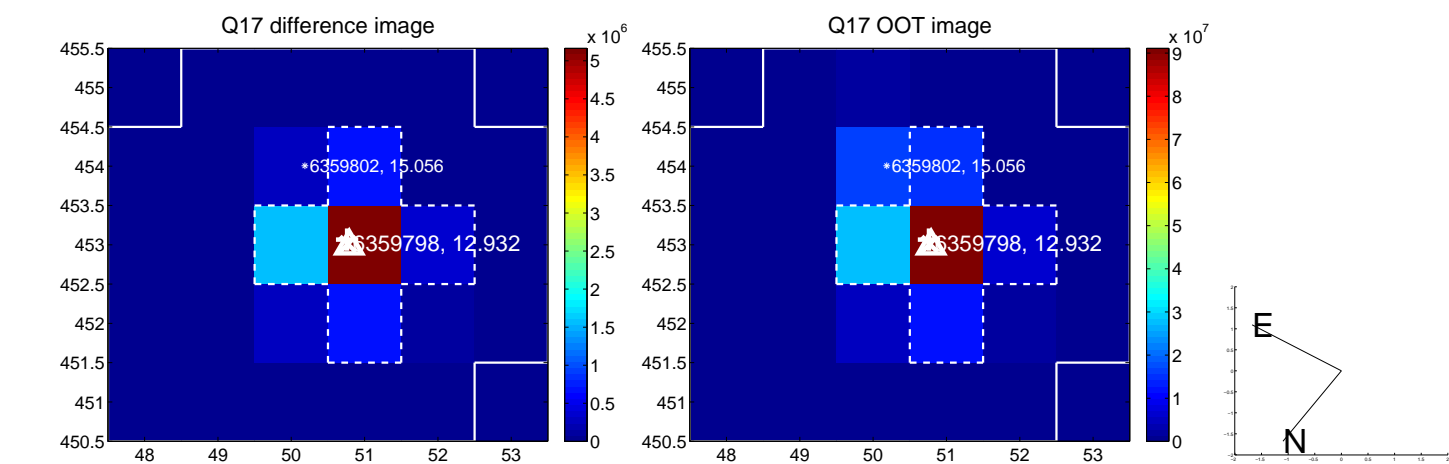
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

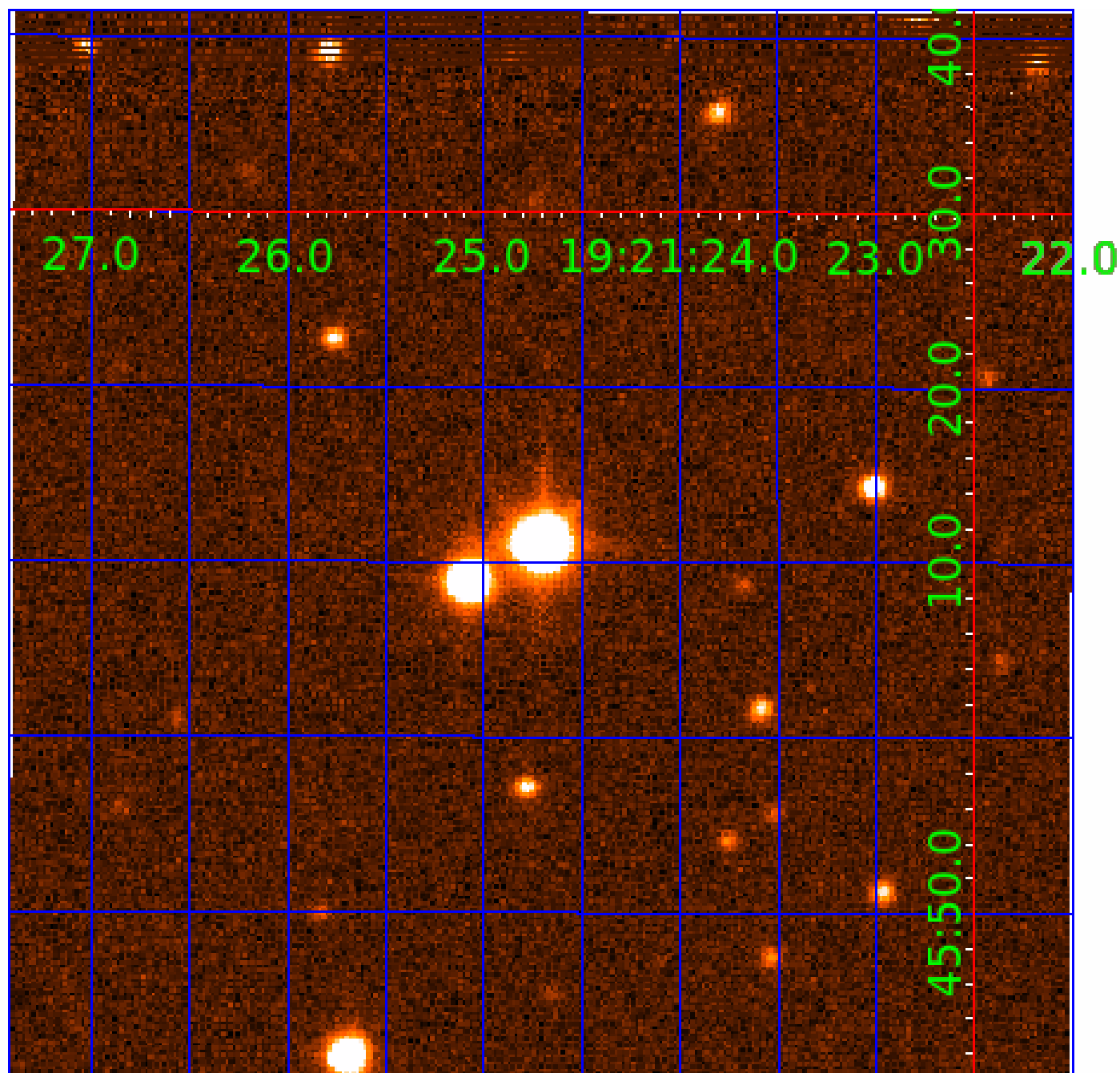


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006359798

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})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006359798-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006359798-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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.

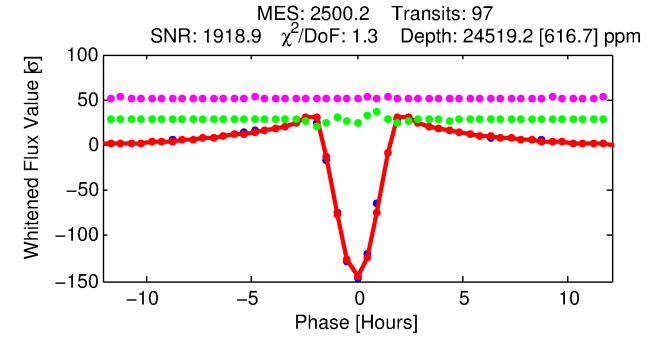
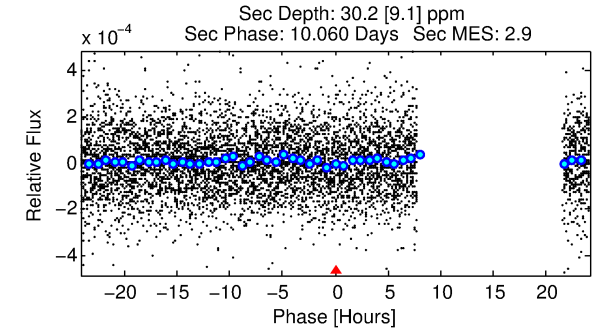
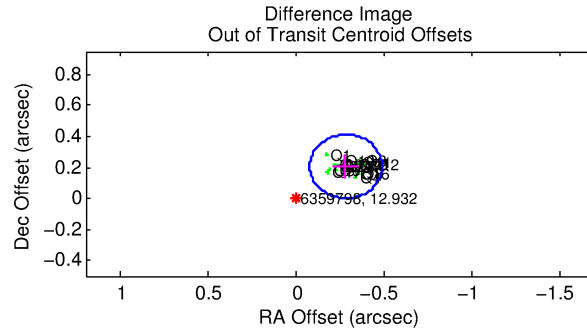
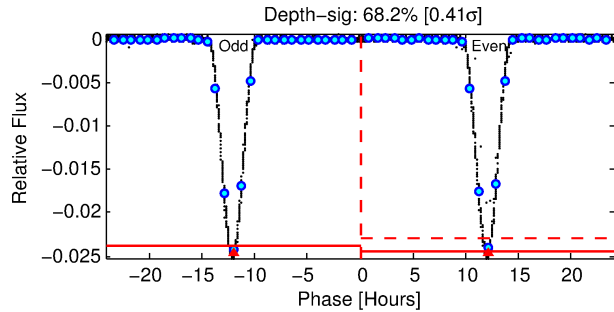
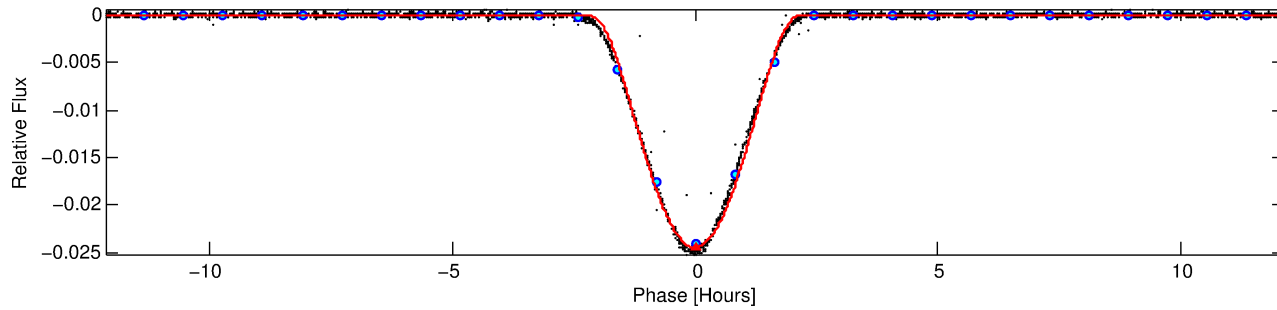
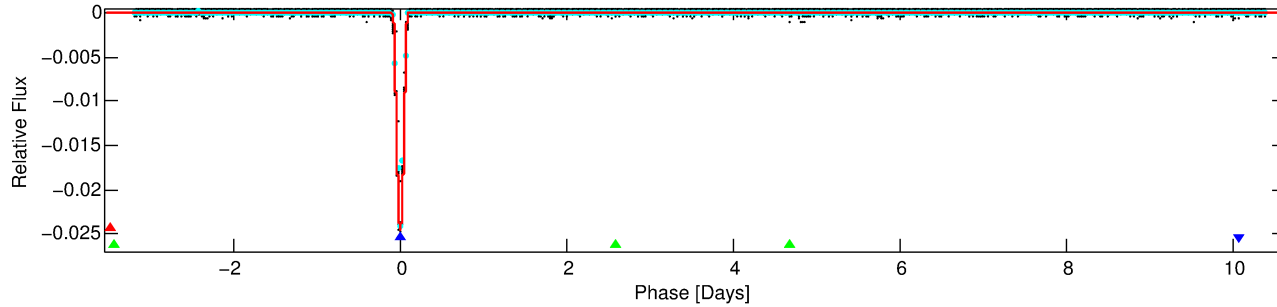
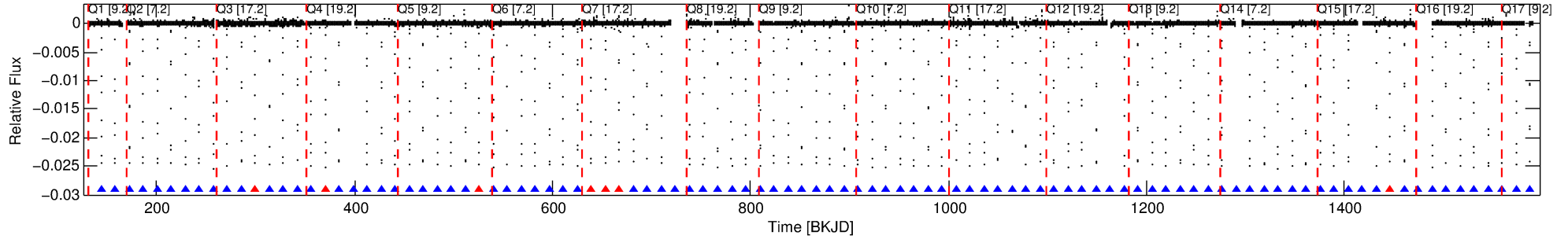
Ephemeris Match Information For 006359798-02

No Significant Match Found

DV One-Page Summary

KIC: 6359798 Candidate: 2 of 3 Period: 14.154 d
KOI: K01121 Corr: No Ephemeris Match

Kp: 12.93 R*: 1.04 Rs Teff: 5850.0 K Logg: 4.40 Fe/H: 0.000



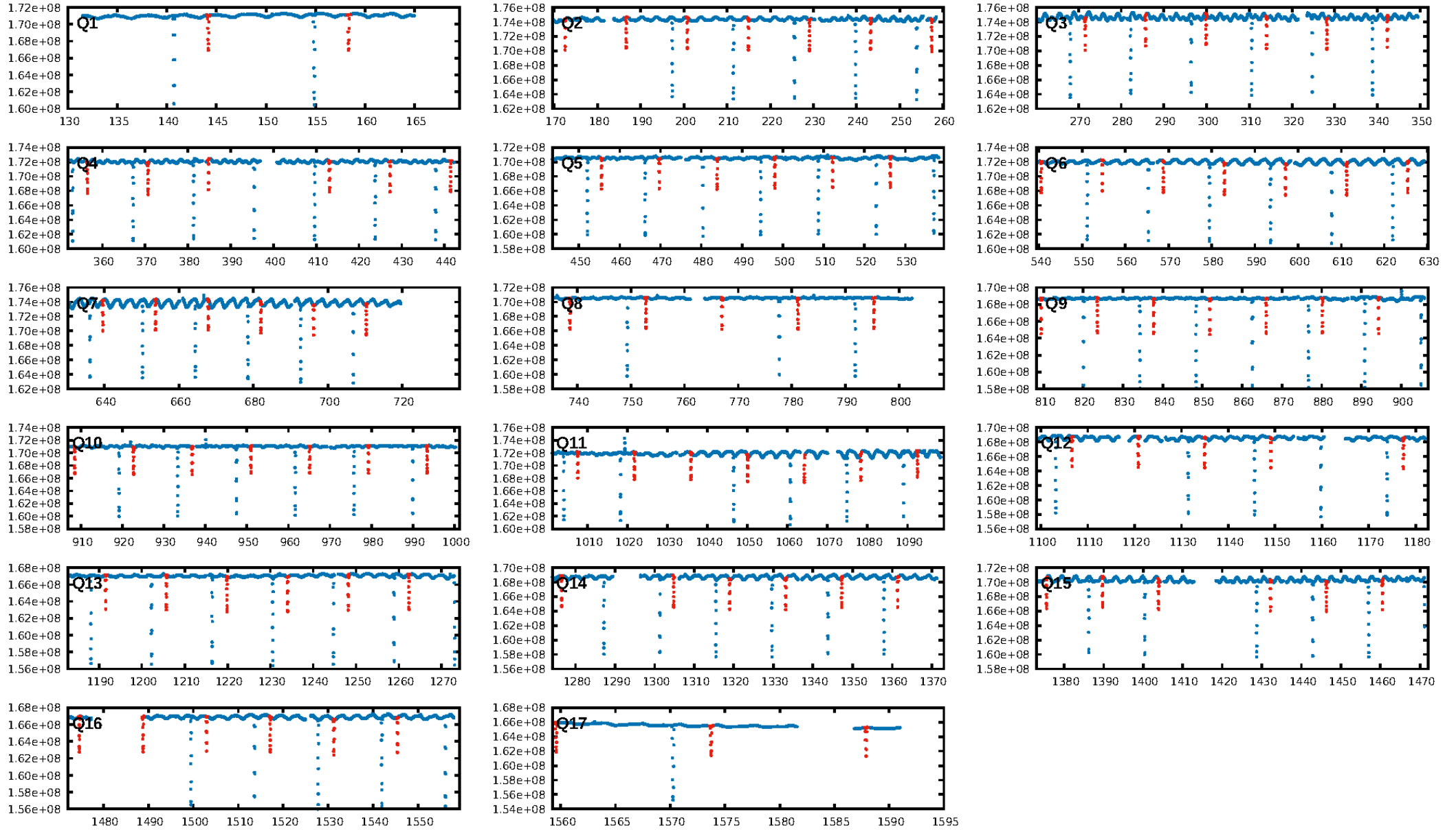
DV Fit Results:

Period = 14.15403 [0.00000] d
Epoch = 144.1772 [0.0000] BKJD
Rp/R* = 0.2523 [0.0078]
a/R* = 20.19 [0.05]
b = 1.00 [0.01]
Seff = 86.34 [19.58]
Teq = 777 [44] K
Rp = 28.56 [4.60] Re
a = 0.1143 [0.0160] AU
Ag = 0.27 [0.10] [-7.37σ]
Teff = 863 [69] K [1.05σ]

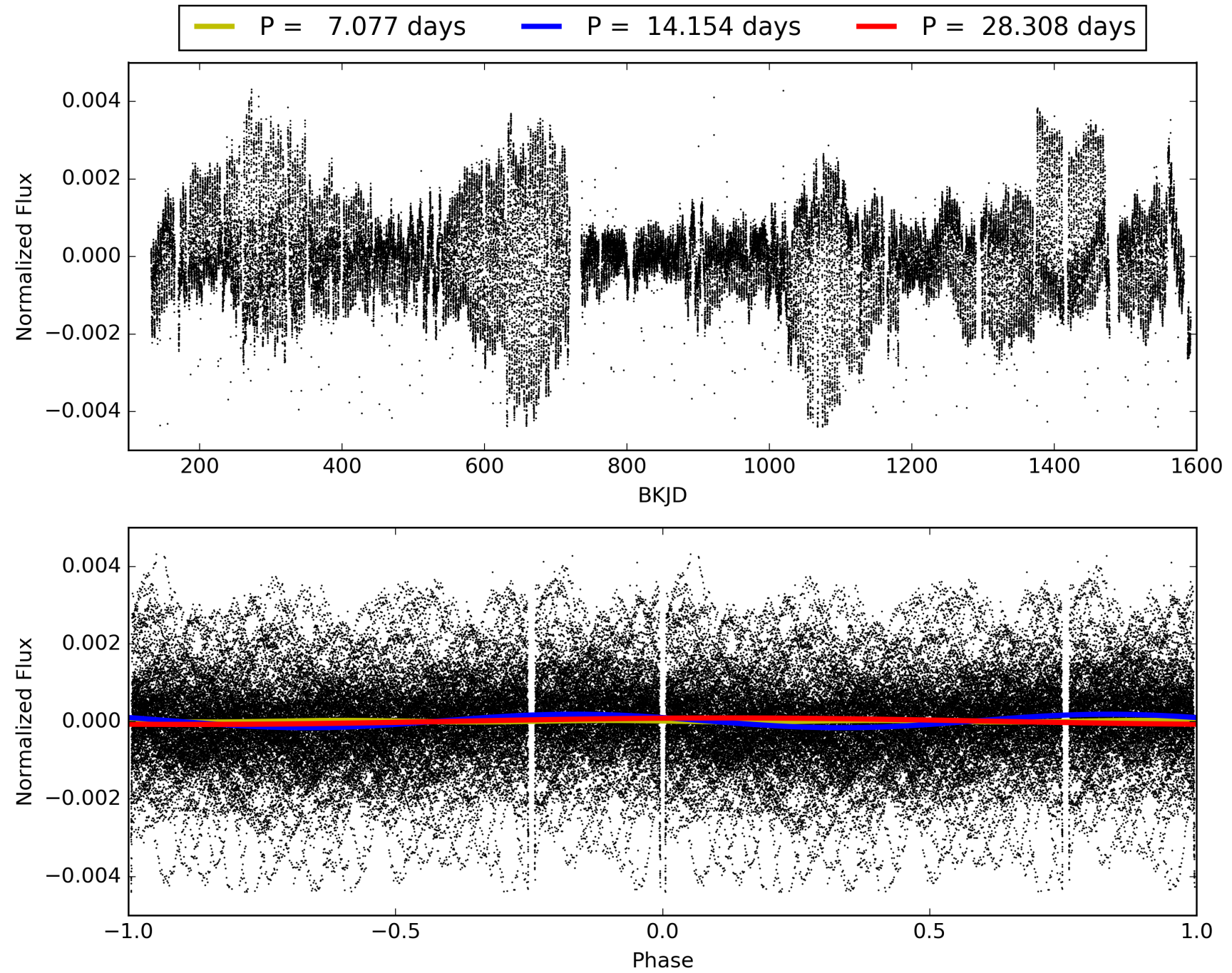
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 62.3%
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 0.92 [85/92]
GhostDiagnostic-chr: 8.144
Centroid-sig: 0.0%
Centroid-so: 0.083 arcsec [10.36σ]
OotOffset-rm: 0.349 arcsec [5.09σ]
KicOffset-rm: 0.088 arcsec [1.27σ]
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 006359798-02, PDC Light Curves

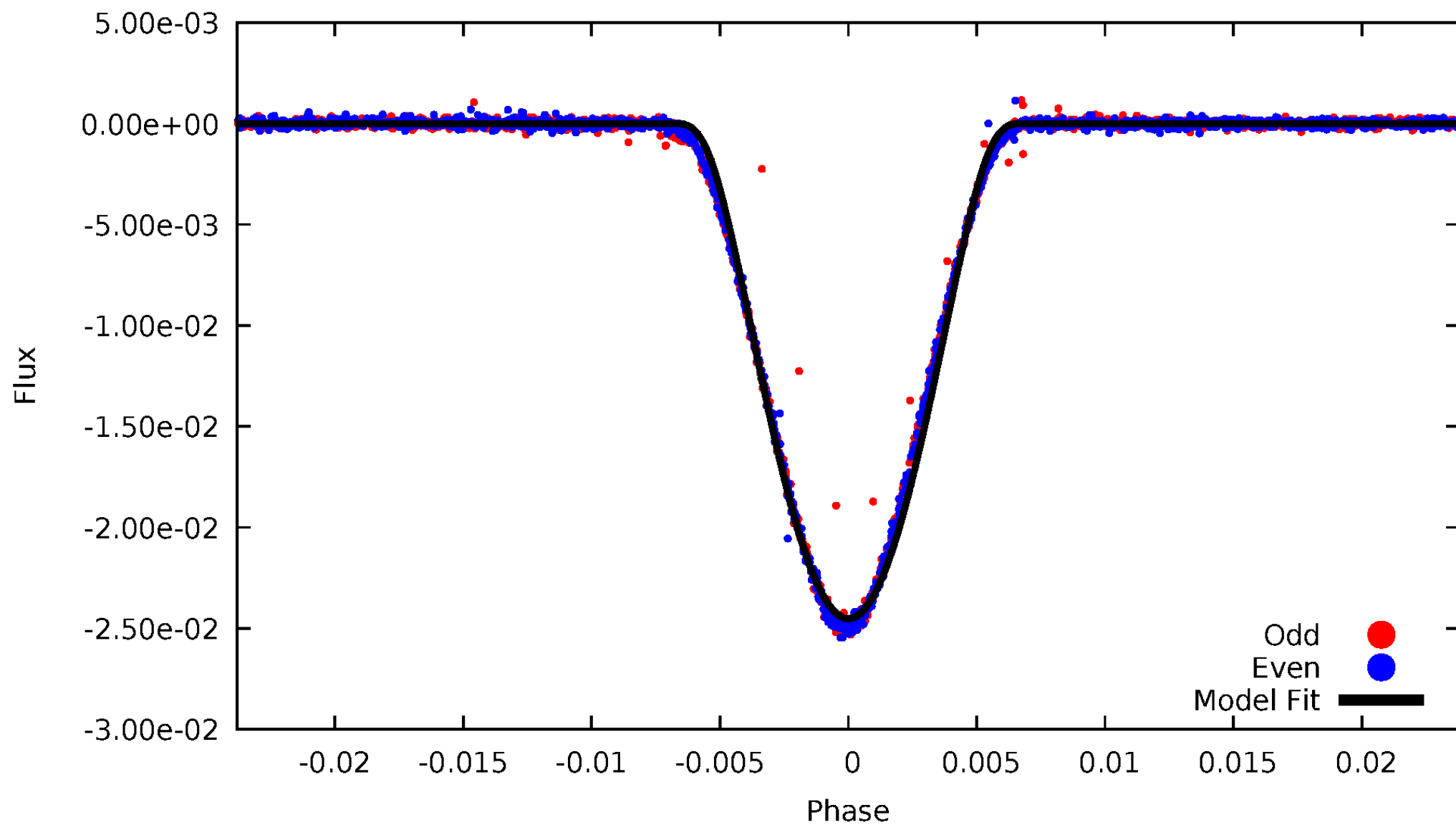


TCE 006359798-02



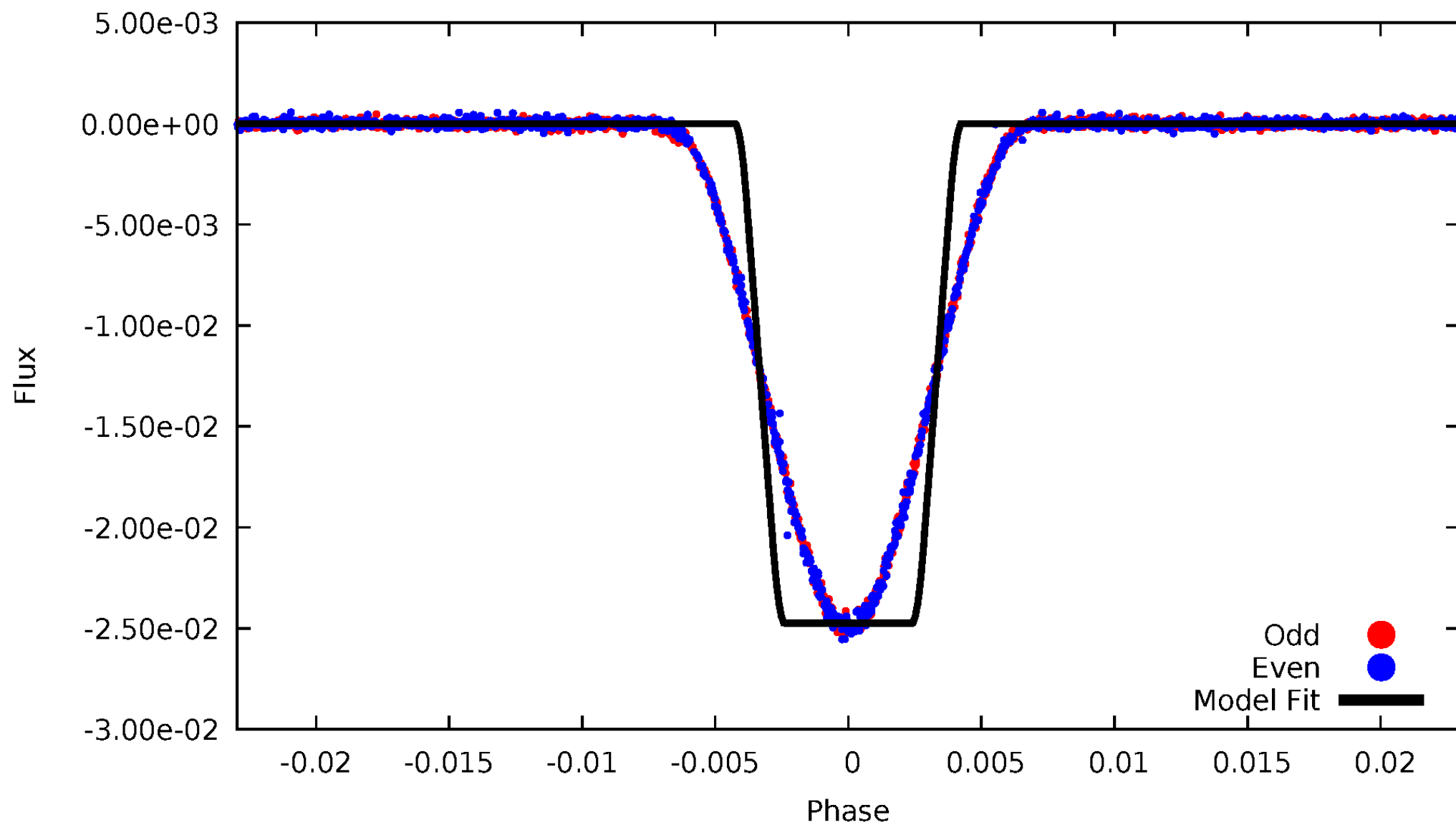
DV Odd/Even

TCE 006359798-02



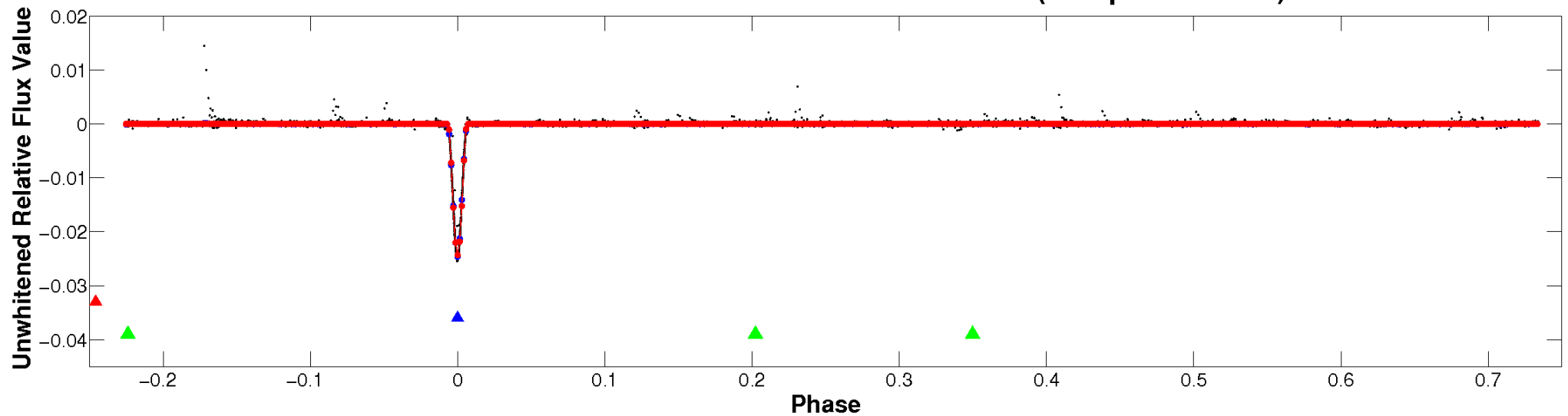
ALT Odd/Even

TCE 006359798-02

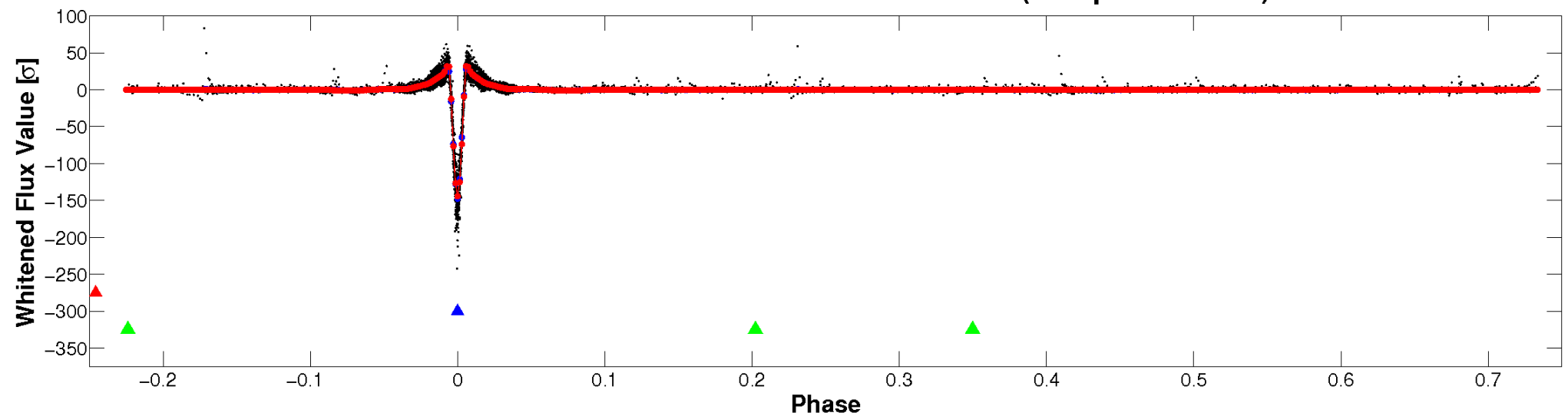


Non-Whitened Vs. Whitened Light Curve

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

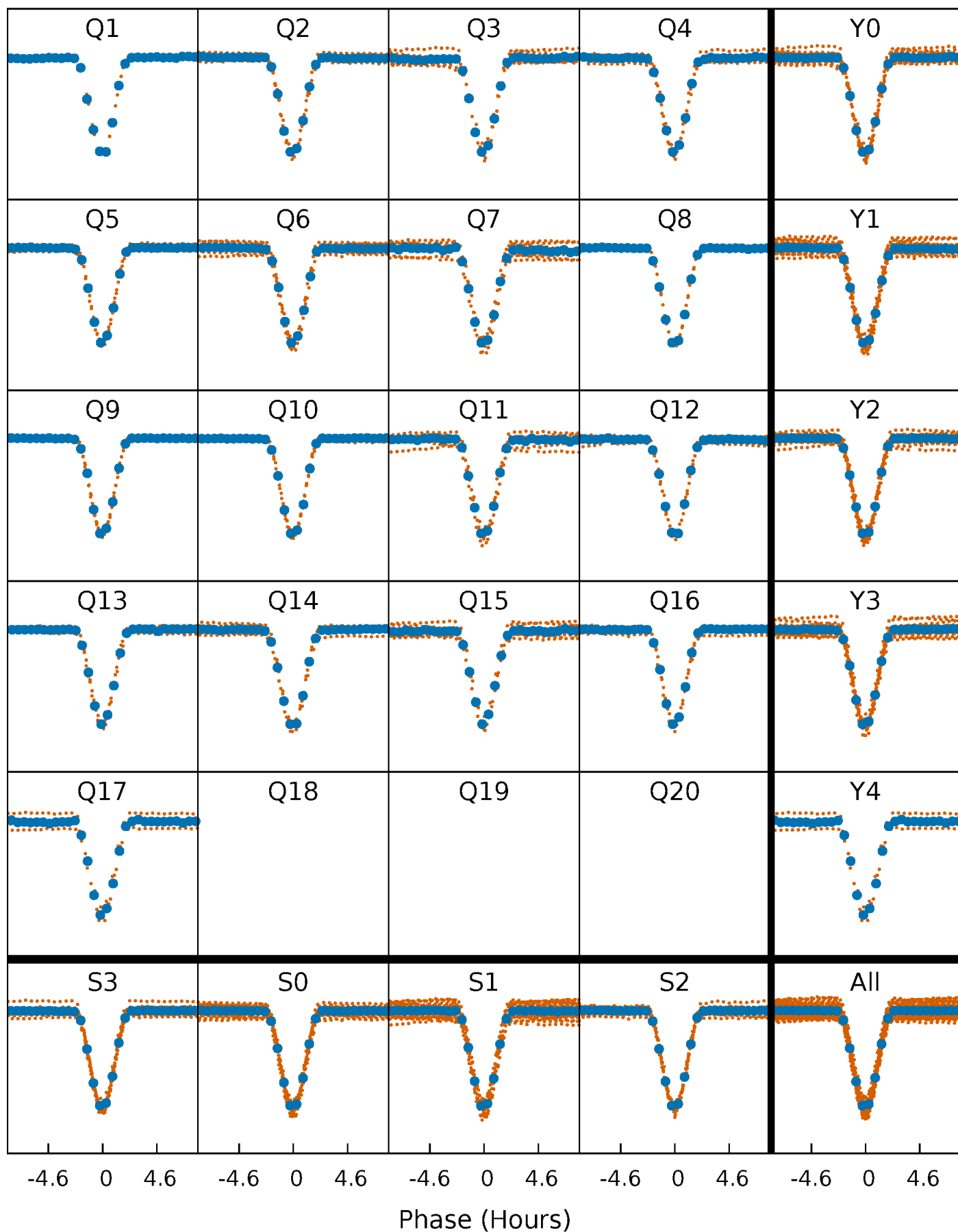


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



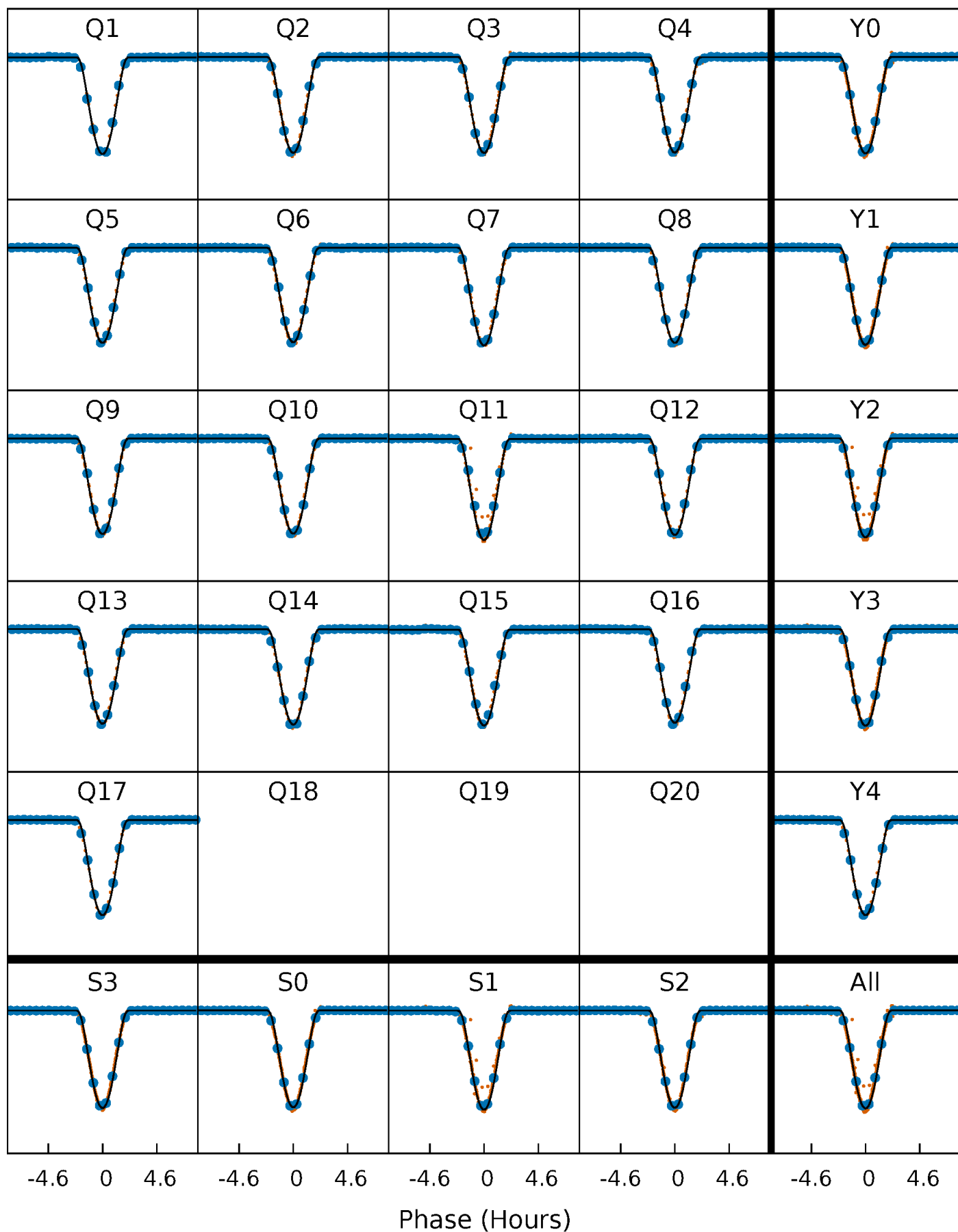
PDC Quarter-Phased Transit Curves

TCE 006359798-02 P= 14.154027 Days $T_0=144.177180$ (BKJD)



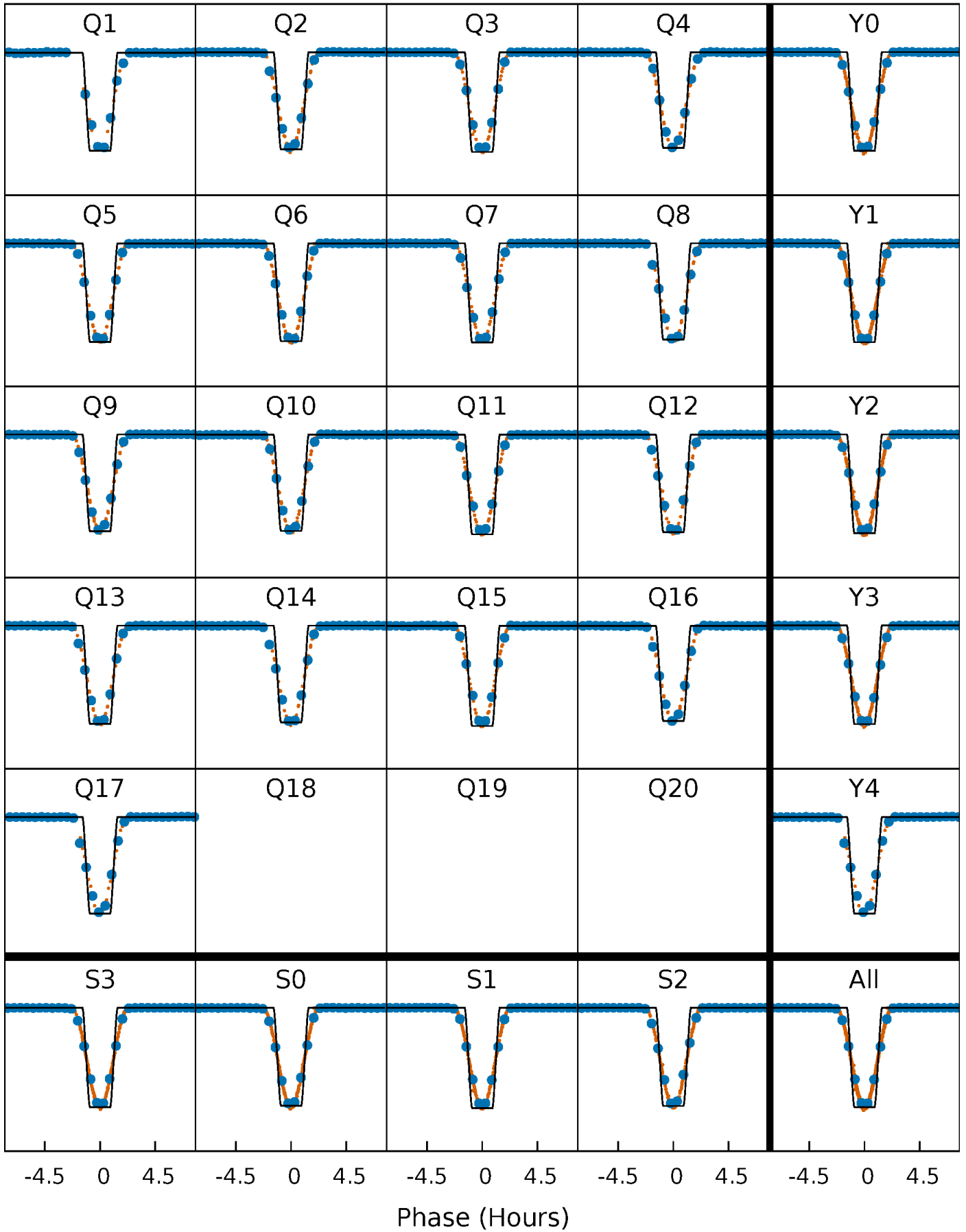
DV Quarter-Phased Transit Curves

TCE 006359798-02 P= 14.154027 Days $T_0=144.177180$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

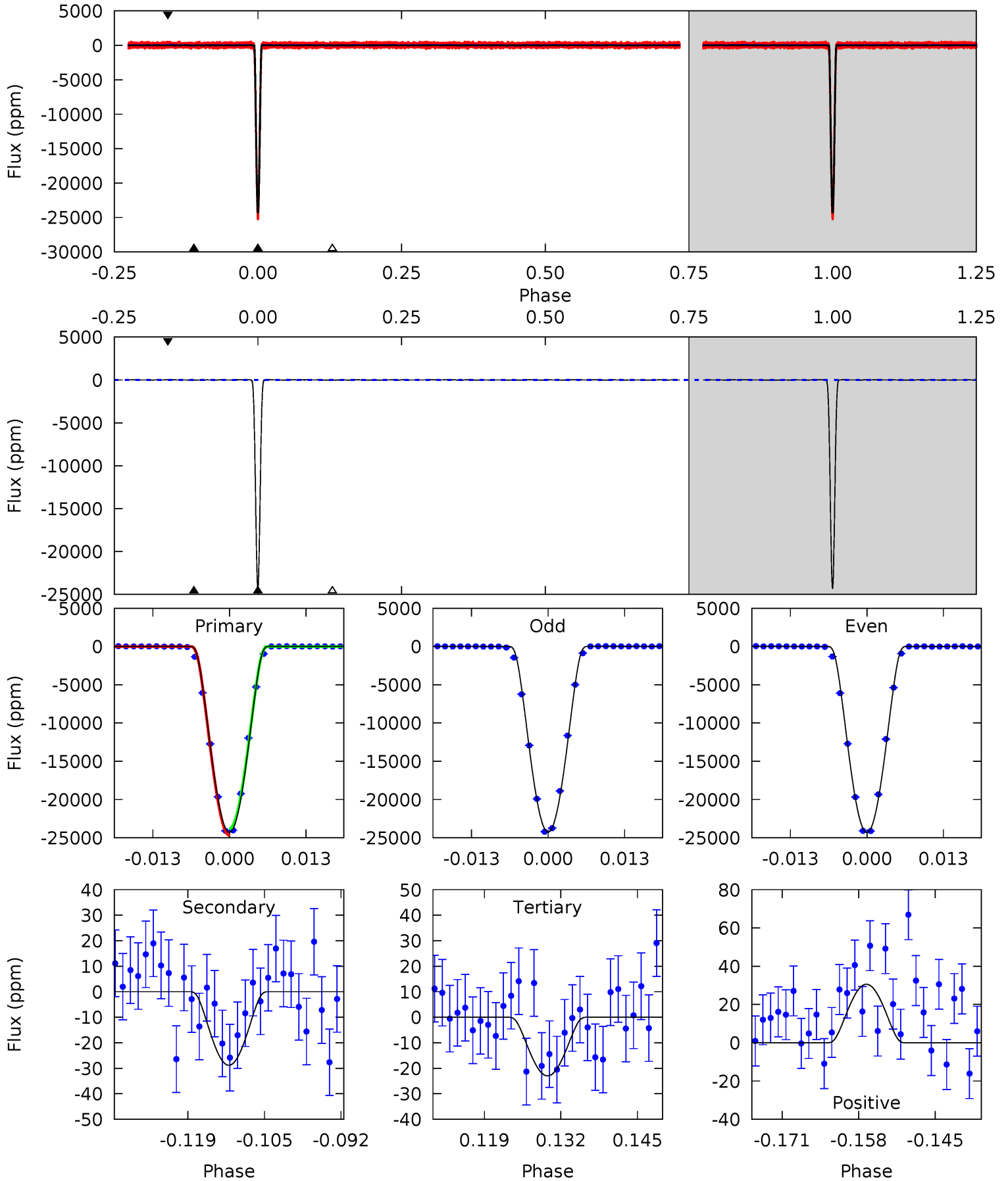
TCE 006359798-02 P= 14.154023 Days $T_0=144.176276$ (BKJD)



DV Model-Shift Uniqueness Test

006359798-02, P = 14.154027 Days, E = 130.023153 Days

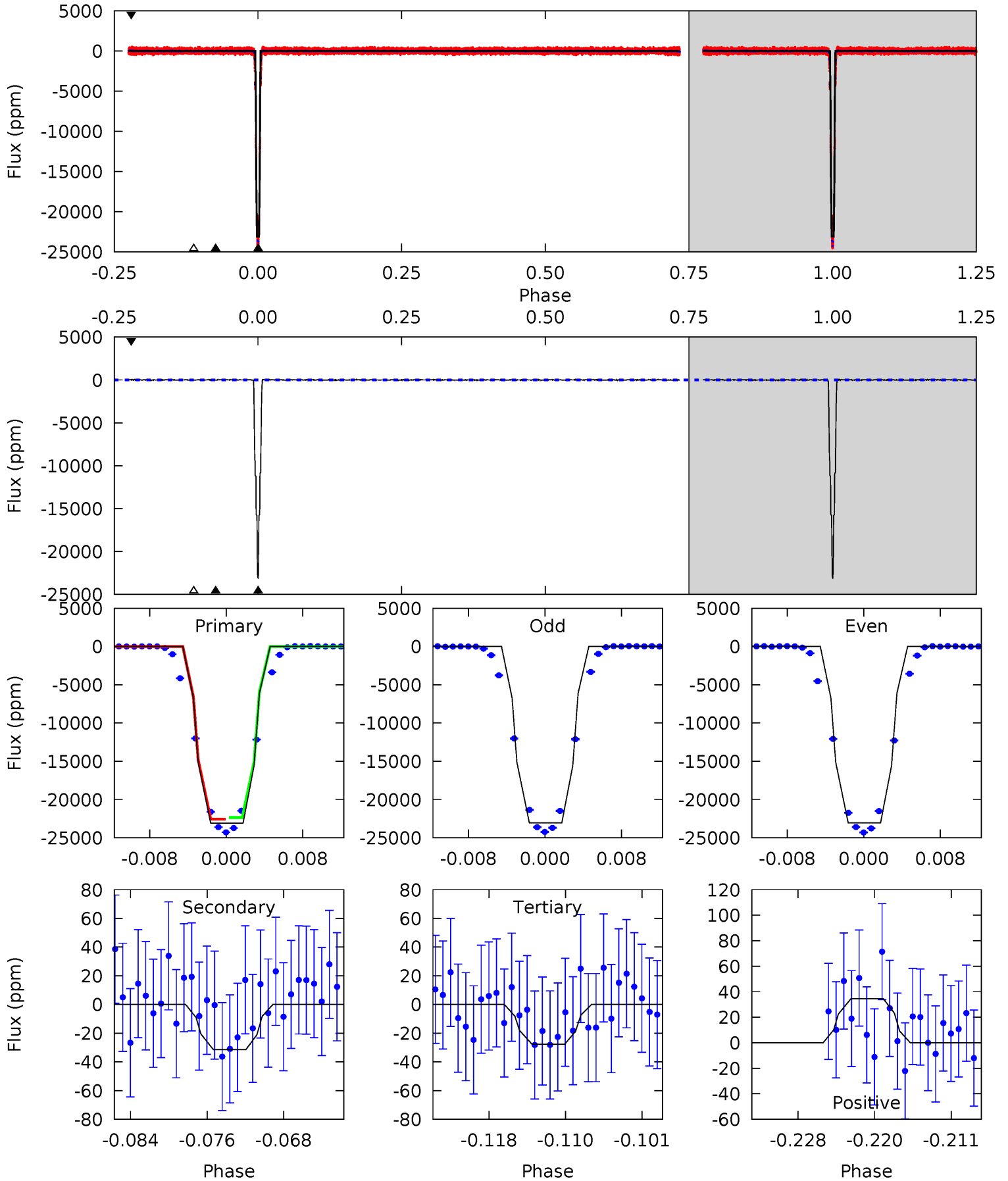
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5385	6.39	5.09	6.78	4.97	2.48	2.14	5380	5378	1.29	-0.39	7.49	1.00	0.00	94.7



Alt Model-Shift Uniqueness Test

006359798-02, P = 14.154023 Days, E = 130.022253 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2801	3.82	3.37	4.19	5.06	2.63	1.12	2798	2797	0.45	-0.37	1.16	1.00	0.00	0



Stellar Parameters For KIC 006359798

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5850^{+105}_{-117}	$4.404^{+0.080}_{-0.120}$	$0.000^{+0.150}_{-0.150}$	$1.037^{+0.164}_{-0.101}$	$0.994^{+0.074}_{-0.066}$	$1.254^{+0.405}_{-0.432}$
	+2%/-2%	+2%/-3%	+inf%/-inf%	+16%/-10%	+7%/-7%	+32%/-34%
Source	SPE57	SPE57	SPE57	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006359798-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-29 ± 5	$28.61^{+3.02}_{-1.87}$	1090^{+50}_{-39}	-1632^{+2960}_{-115}	$0.246^{+0.058}_{-0.049}$
Alt.	-31 ± 8	$17.90^{+1.77}_{-1.47}$	1090^{+46}_{-43}	1964^{+91}_{-134}	$0.685^{+0.260}_{-0.208}$

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 $A_{obs} \gg 1.0$

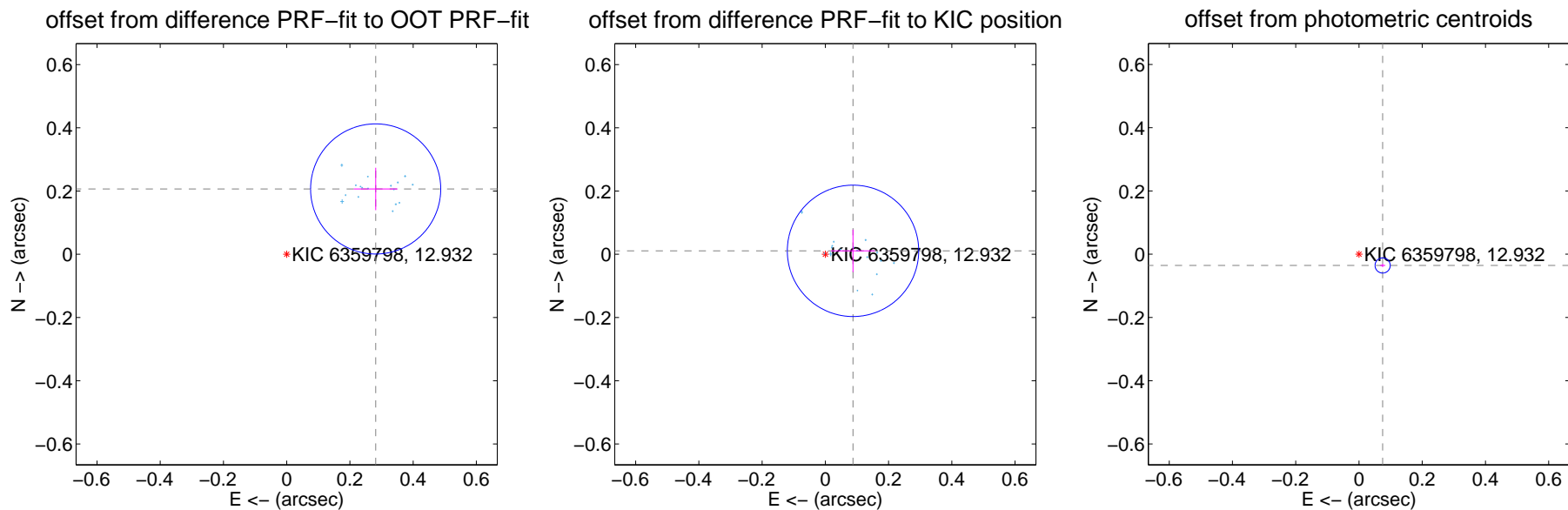
DV Centroid Data

Supplemental centroid analysis for 006359798-02. Kepler magnitude: 12.93. Transit SNR 1918.91

There are 17 quarters with good PRF difference image offsets

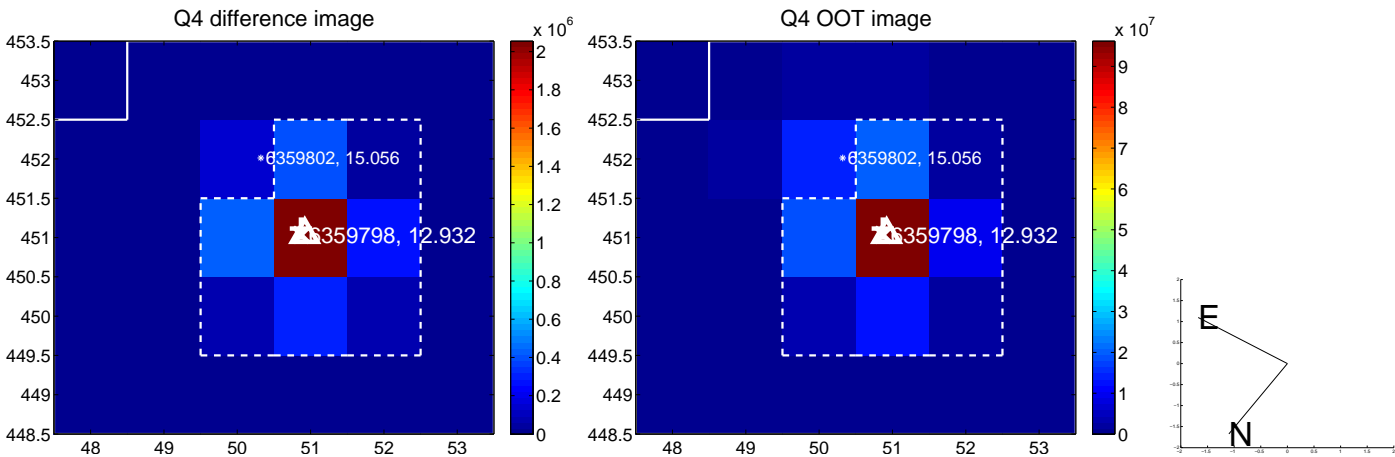
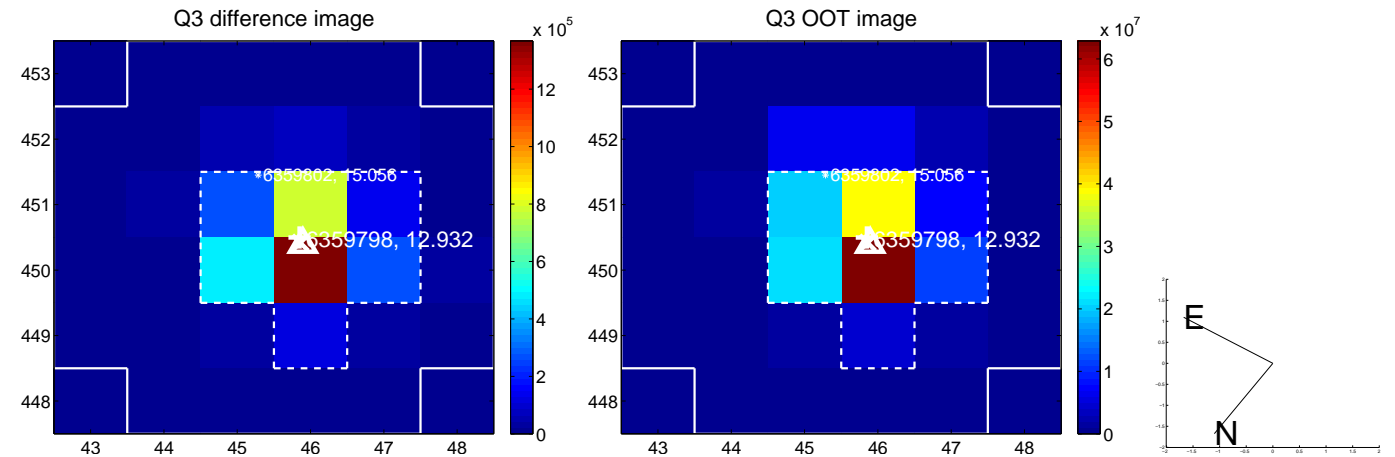
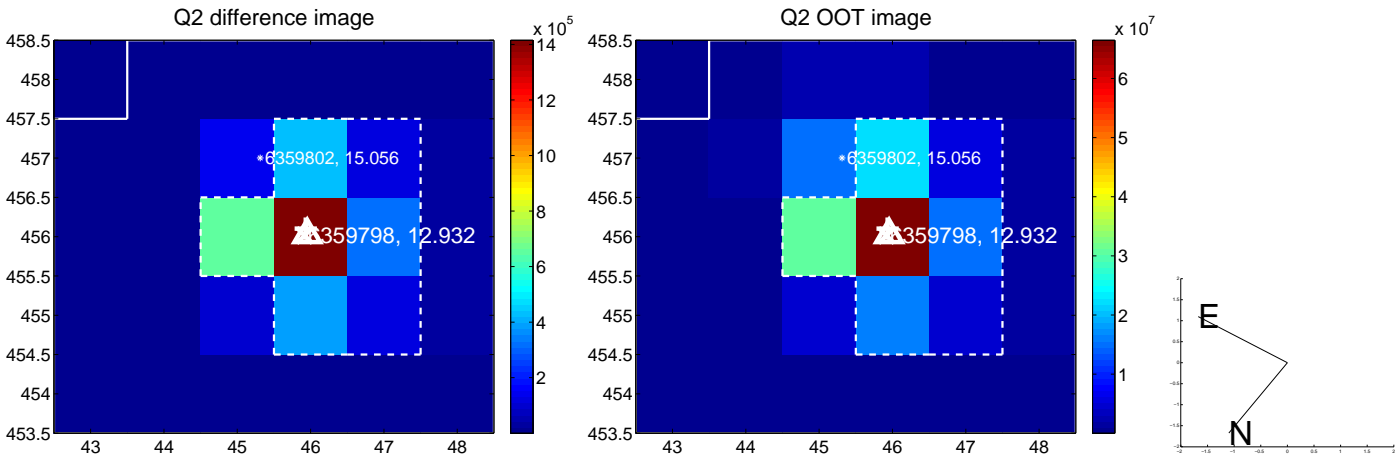
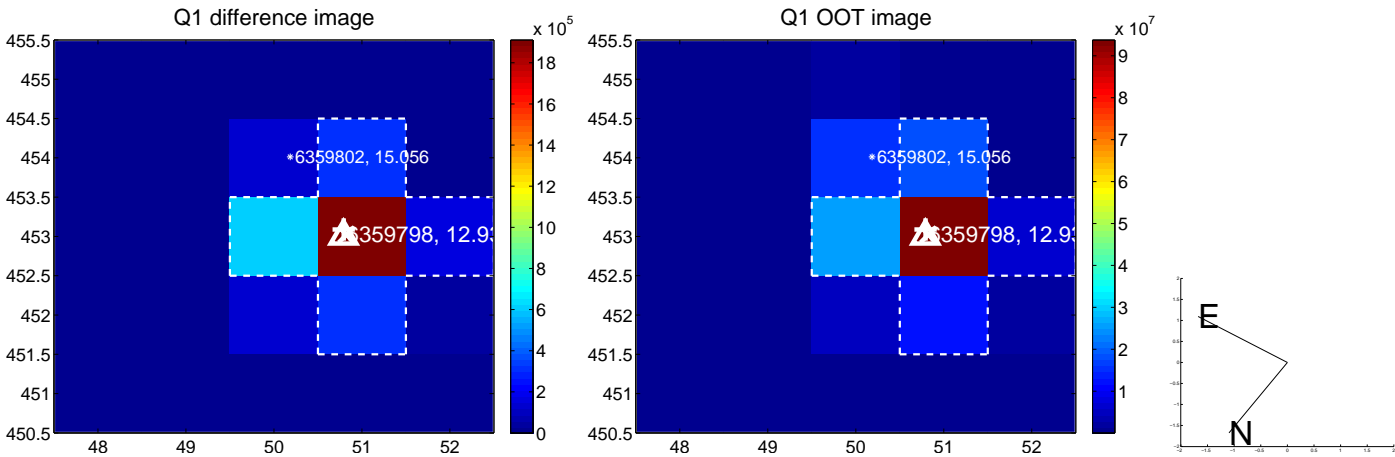
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.349 ± 0.069	5.09	-0.281 ± 0.069	0.207 ± 0.067
PRF-fit source offset from KIC position	0.088 ± 0.069	1.27	-0.088 ± 0.069	0.011 ± 0.067
photometric centroid source offset	0.08 ± 0.01	10.36	-0.07 ± 0.01	-0.04 ± 0.01

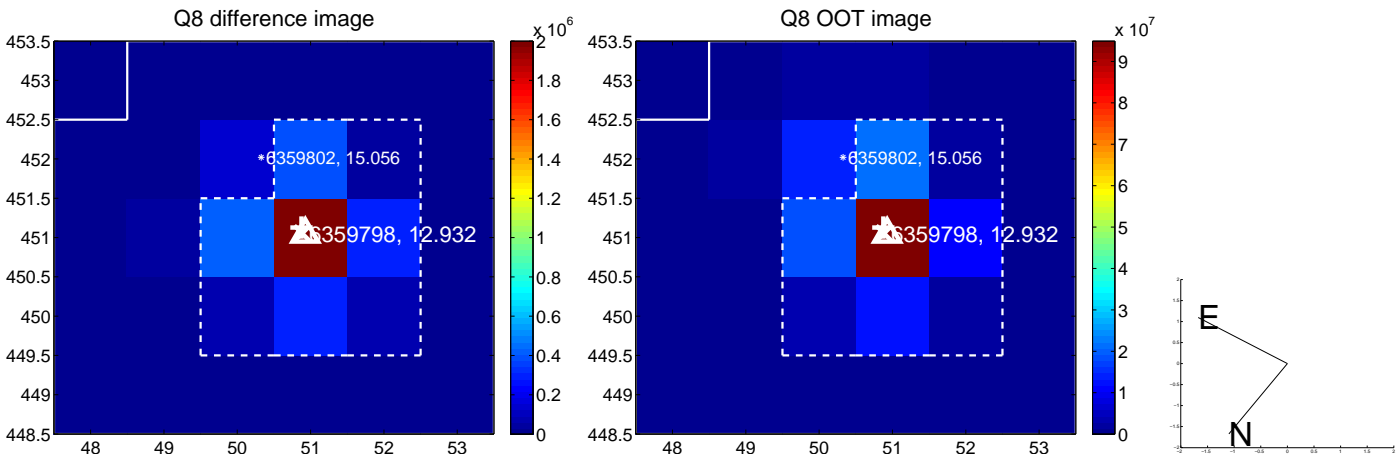
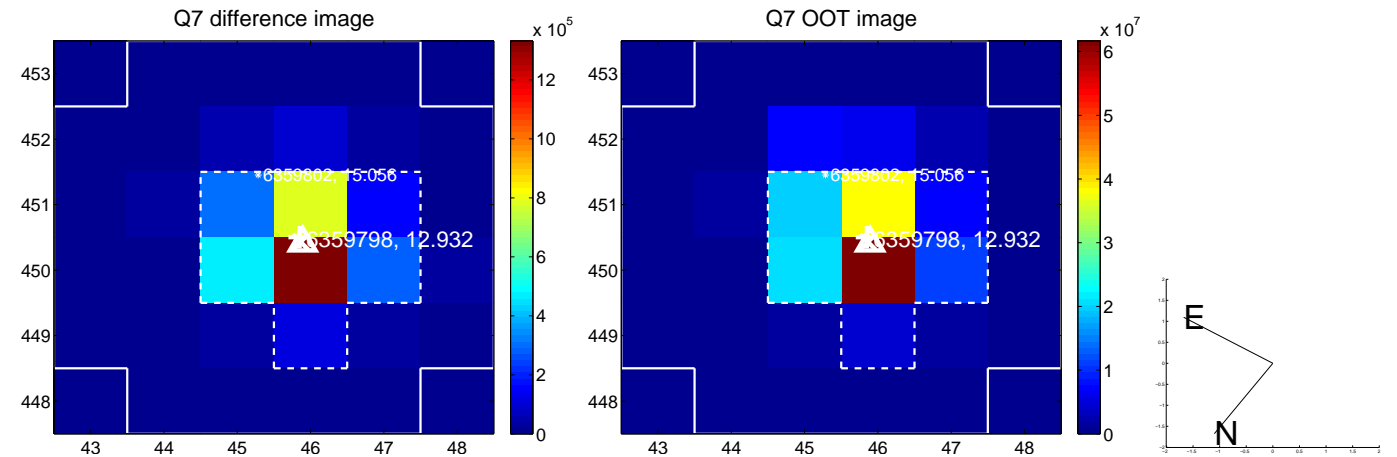
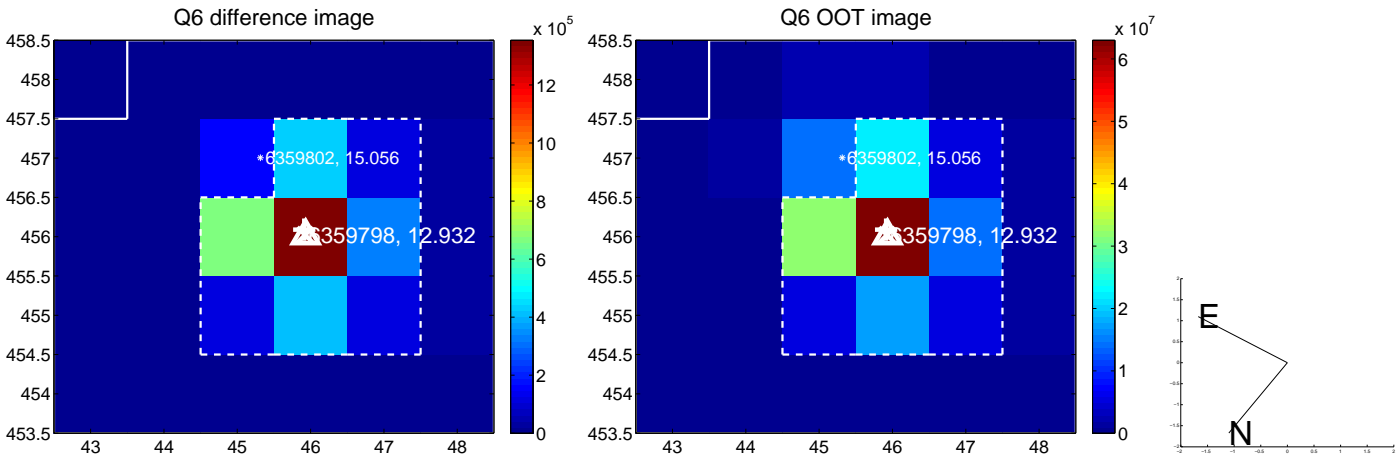
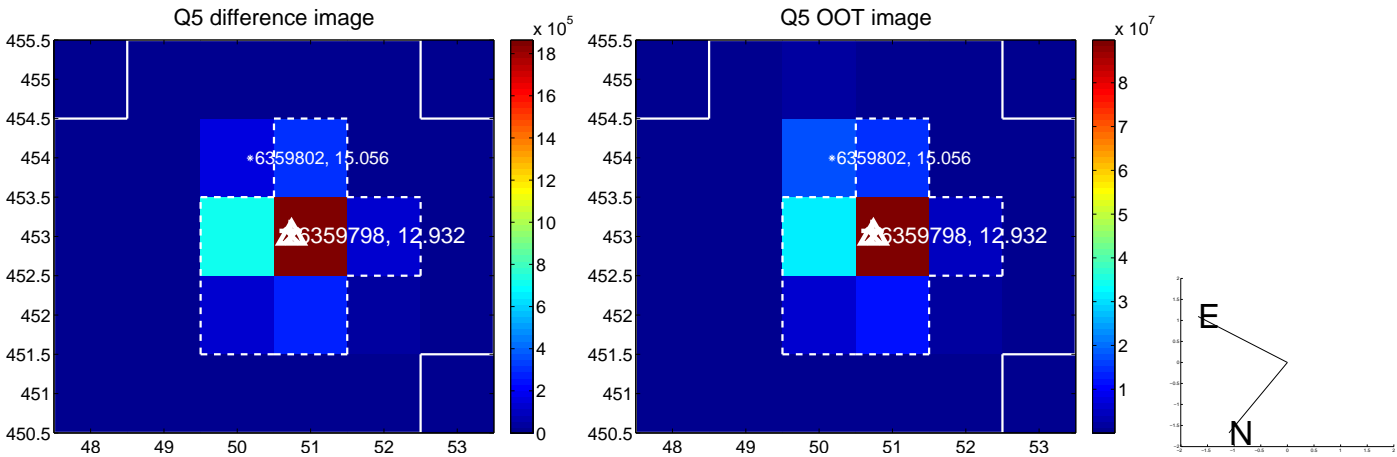


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

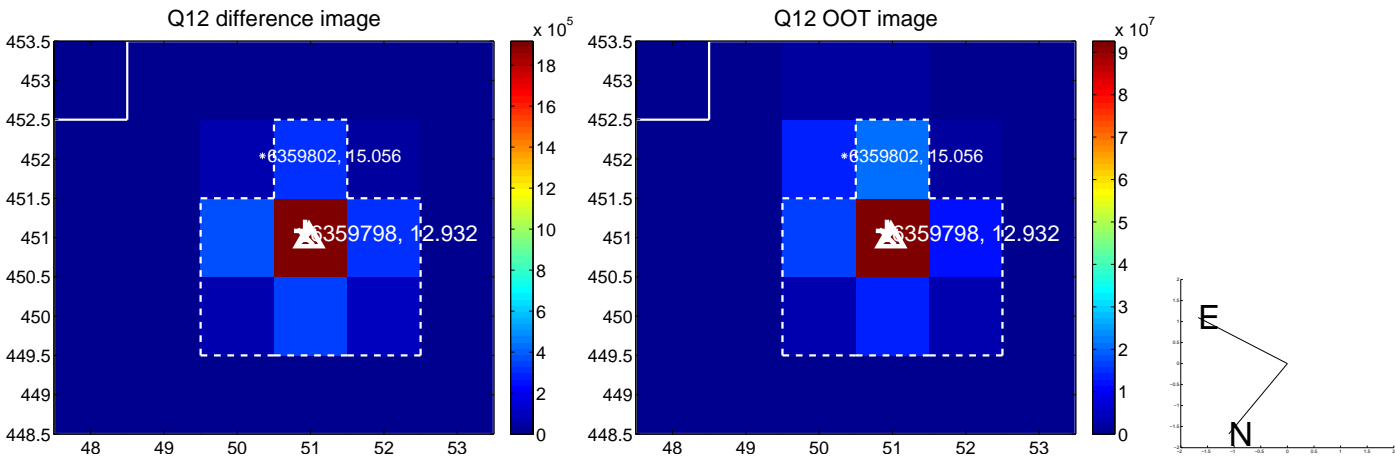
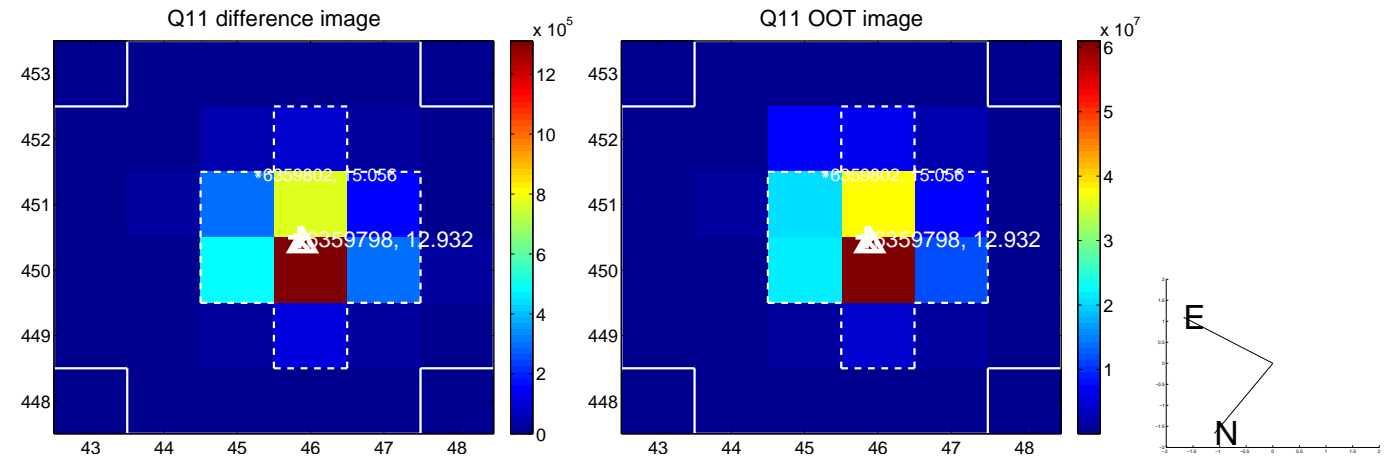
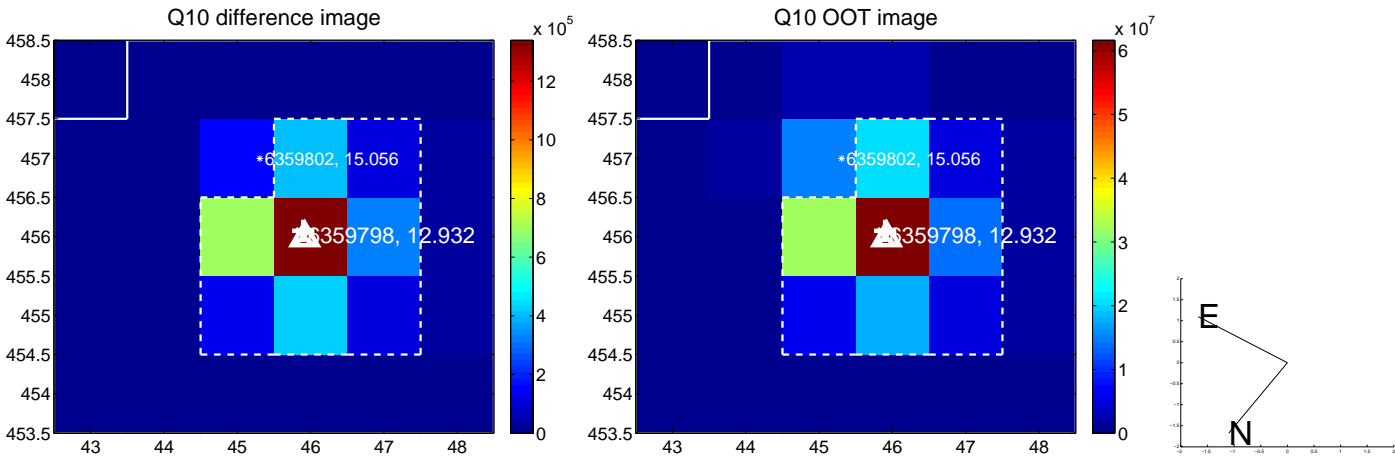
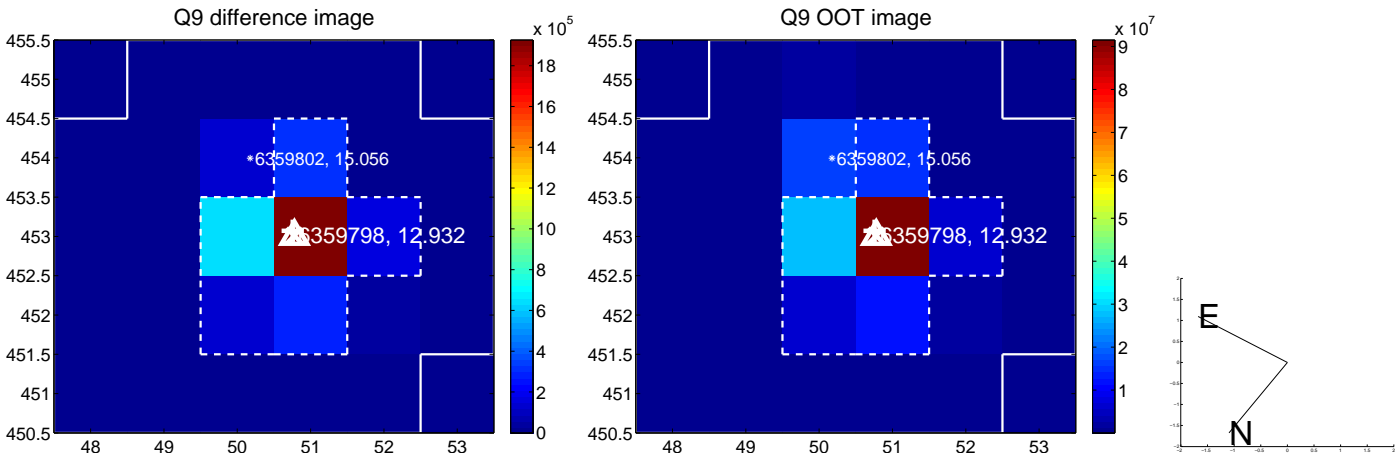
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



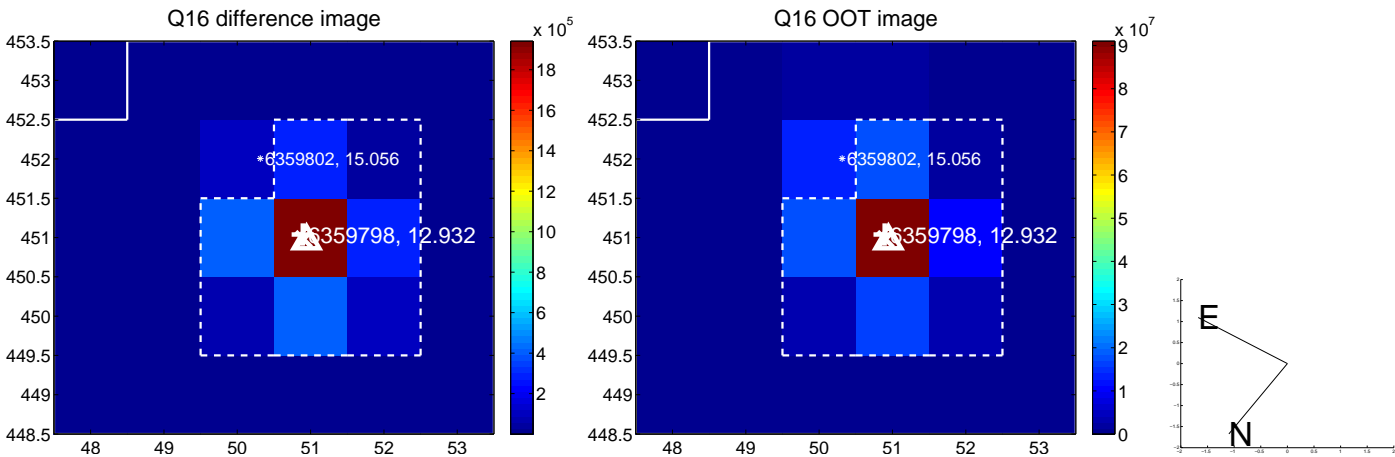
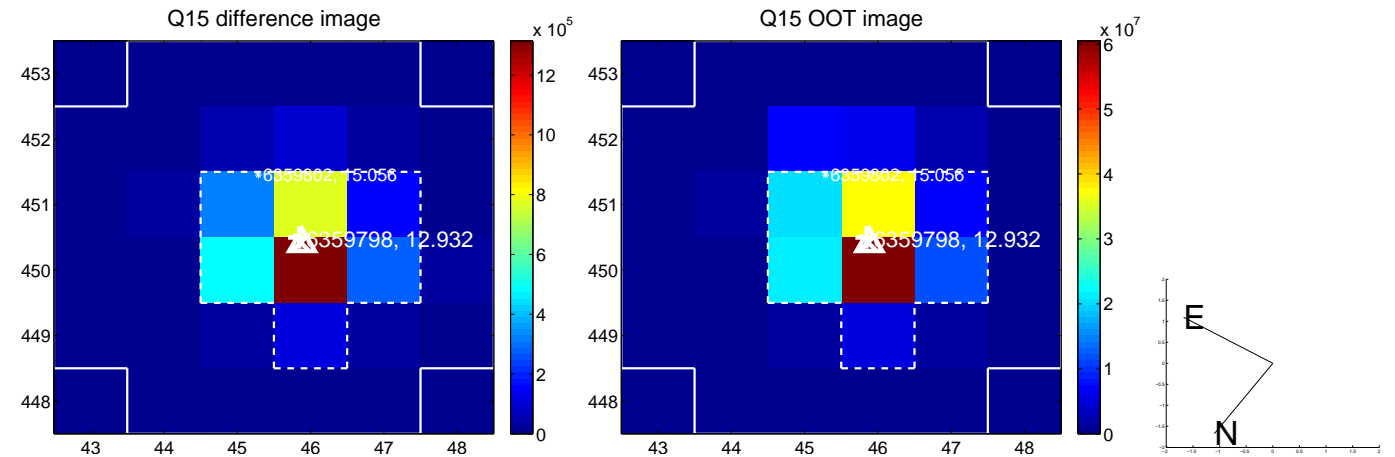
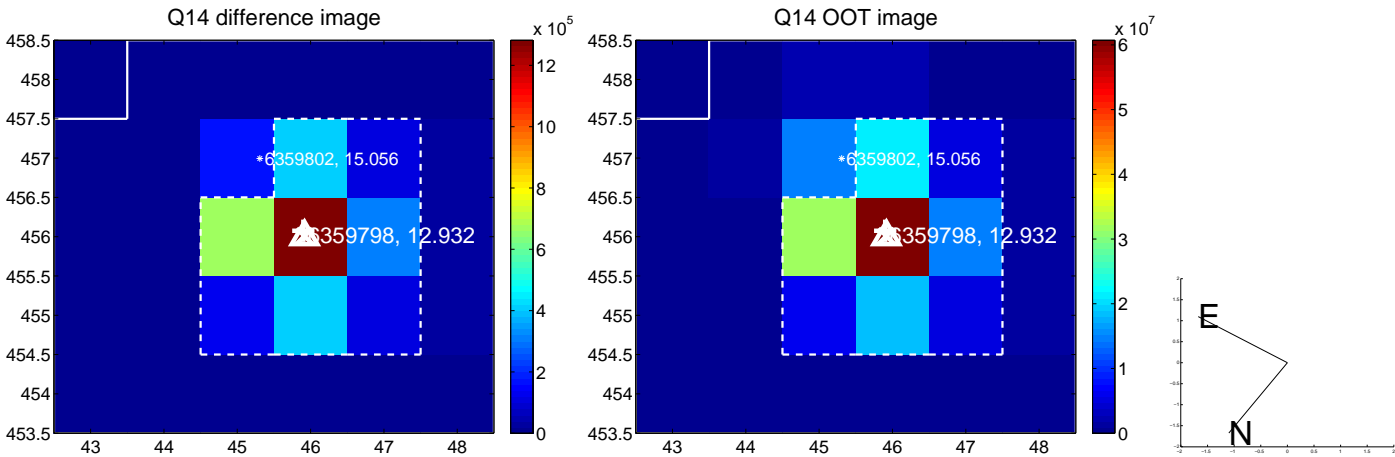
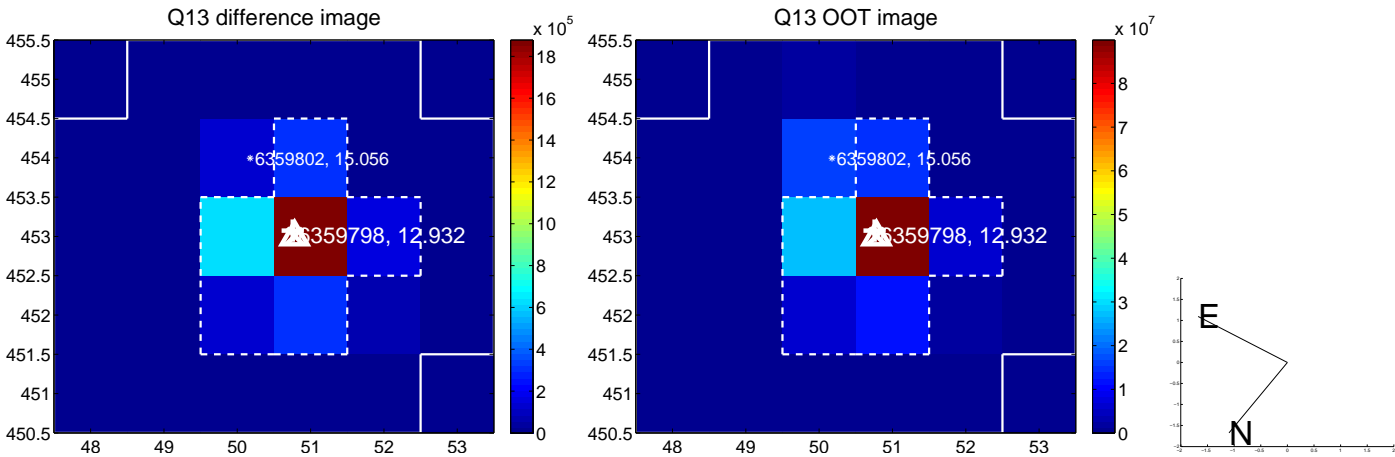
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

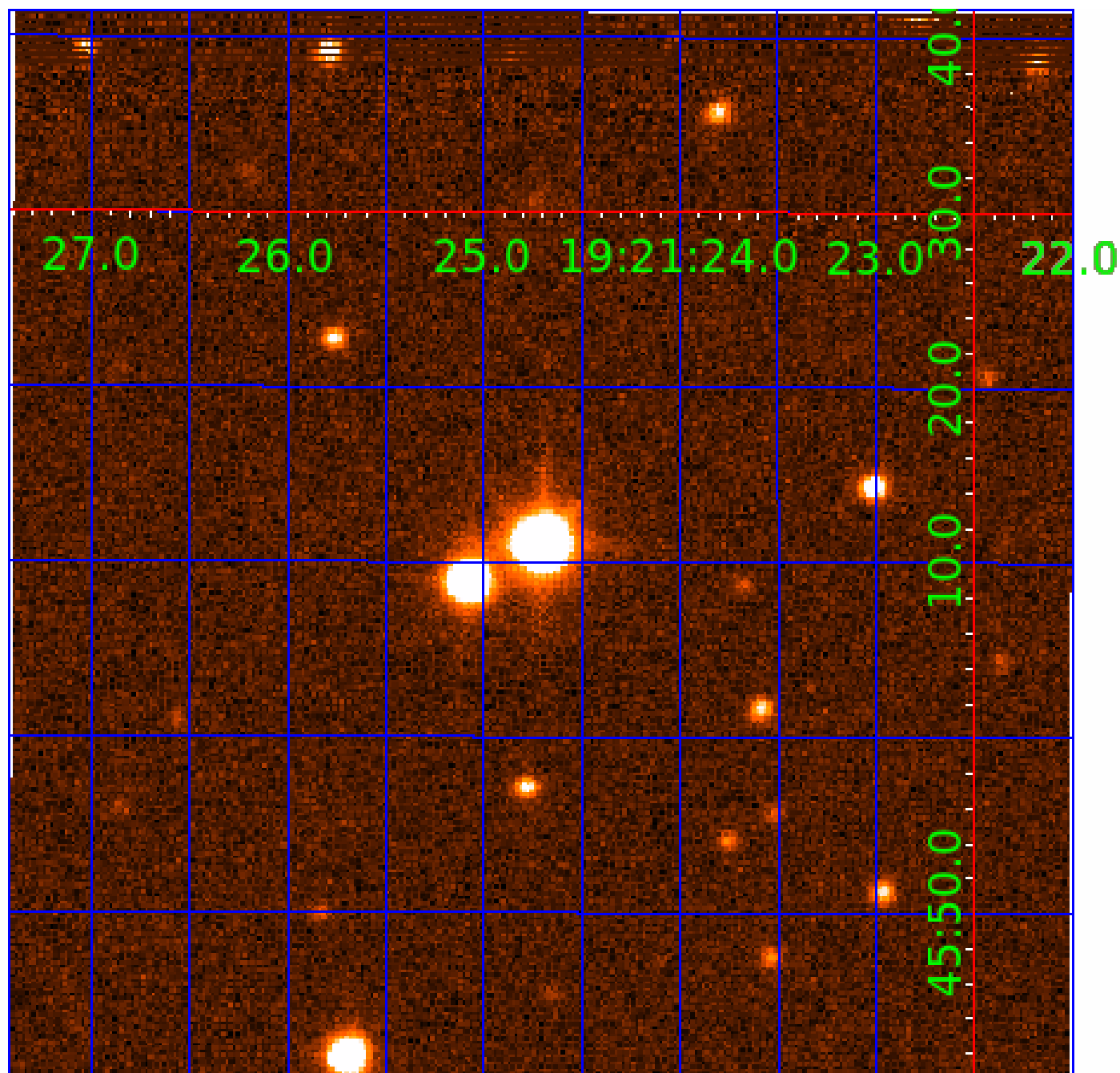


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006359798

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})
006359798-01	OBS	1121.01	14.154032	140.698428	62125.5	4.475	6249.4	3389.7	1.04	5850	44.42	86.34
006359798-02	OBS	No	14.154027	144.177180	24519.2	4.043	2500.2	1918.9	1.04	5850	28.56	86.34
006359798-03	OBS	No	446.895580	500.891864	276.5	6.000	9.5	-1.0	1.04	5850	1.71	0.86

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006359798-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—MOD_ODDEVEN_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006359798-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006359798-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—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 006359798-03

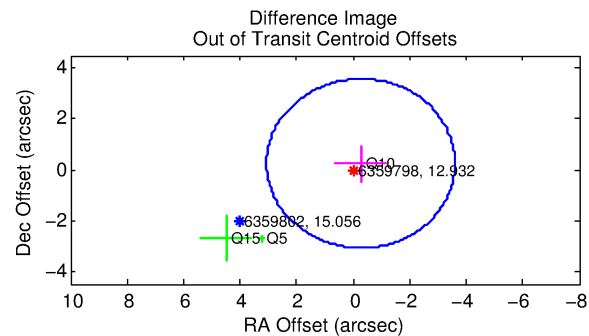
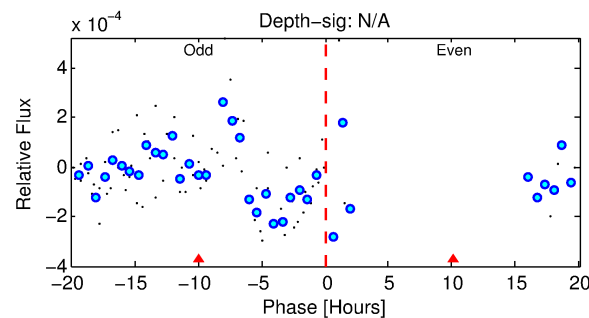
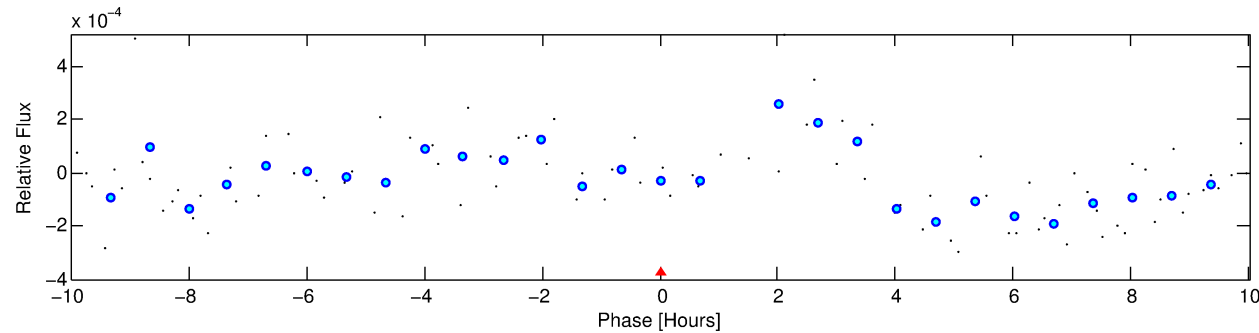
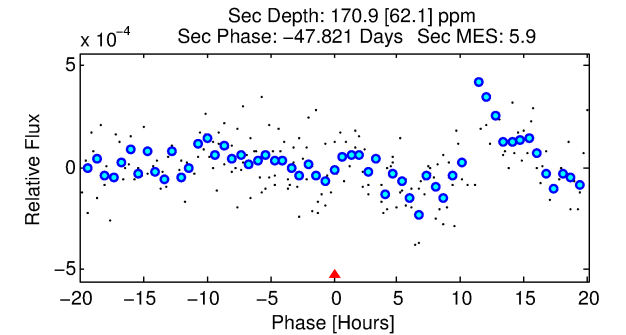
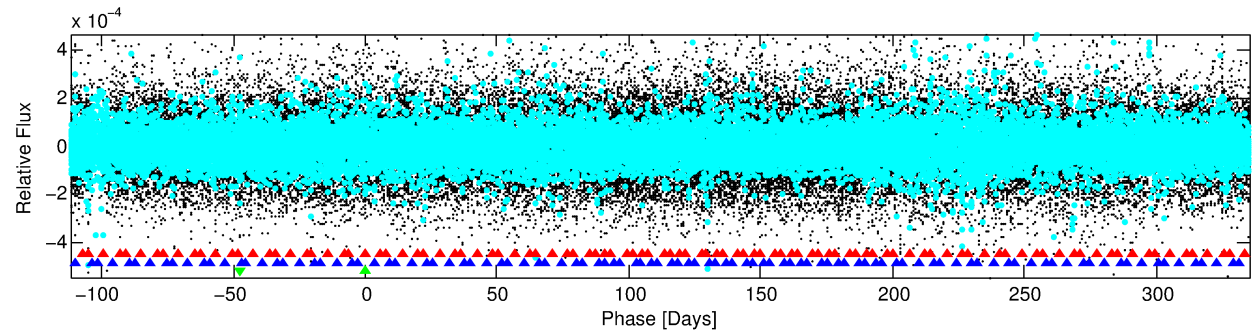
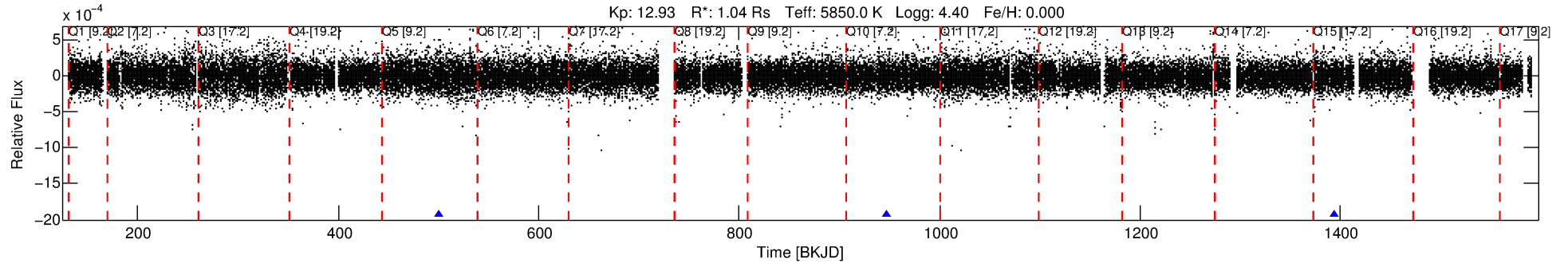
No Significant Match Found

DV One-Page Summary

KIC: 6359798 Candidate: 3 of 3 Period: 446.896 d

KOI: K01121 Corr: No Ephemeris Match

Kp: 12.93 R*: 1.04 Rs Teff: 5850.0 K Logg: 4.40 Fe/H: 0.000



TPS TCE Results:

Period = 446.89558 d
Epoch = 500.8919 BKJD

DV fit results are unavailable

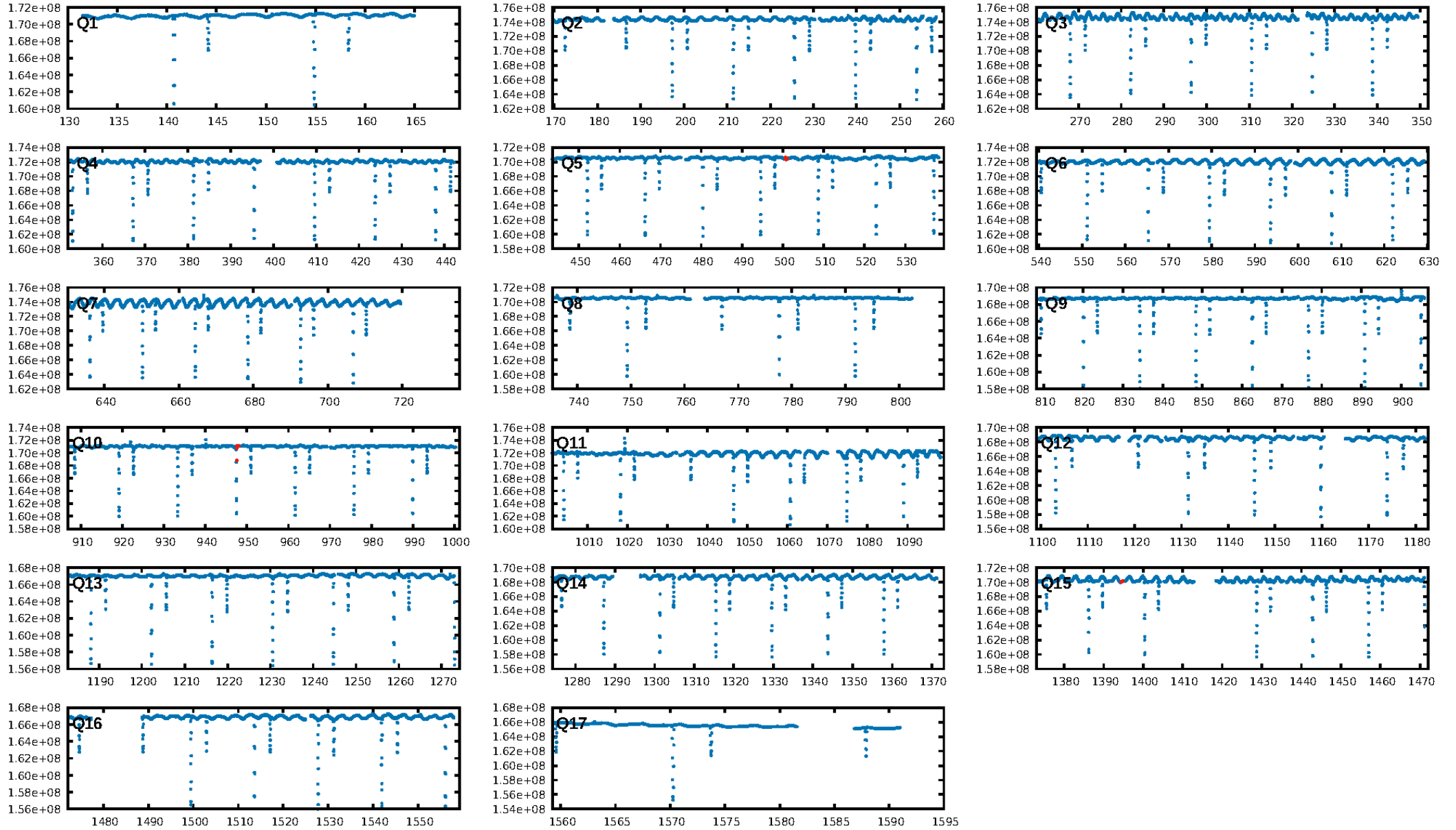
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [1387.59σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.13e-10
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.365 arcsec [0.33σ]
KicOffset-rm: 0.097 arcsec [0.06σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 0.67 [2/3]

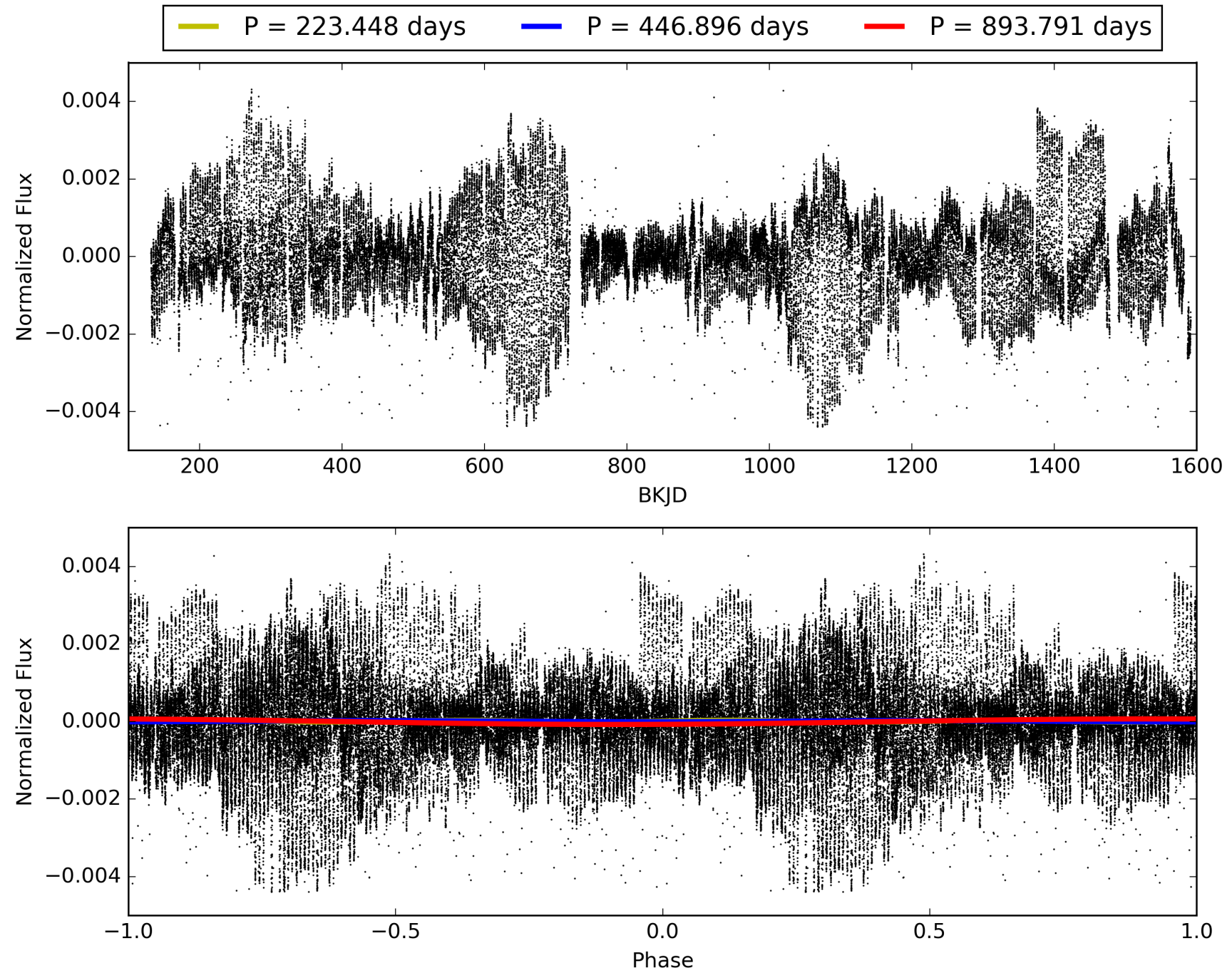
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 18:13:19 Z

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

TCE 006359798-03, PDC Light Curves

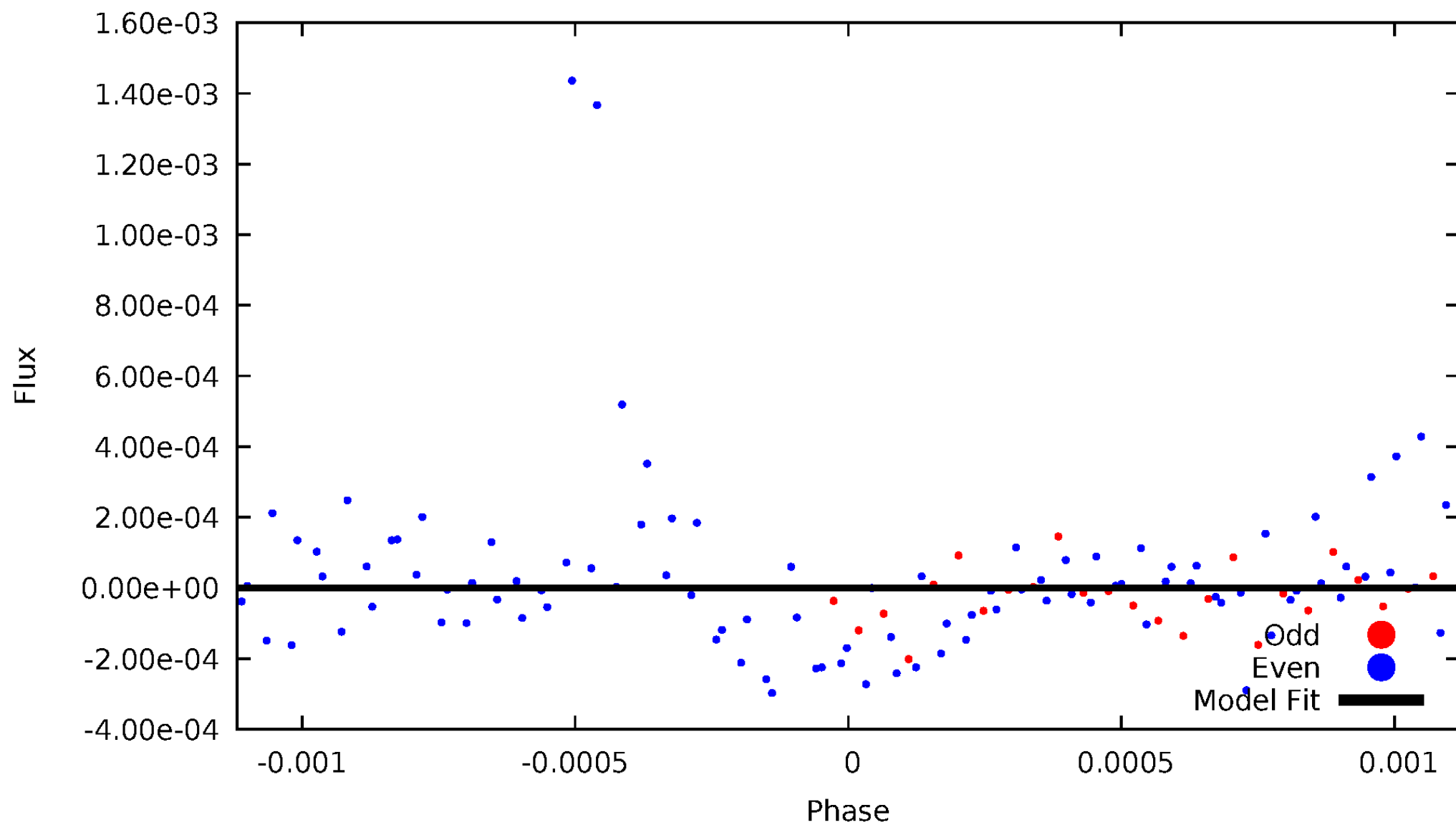


TCE 006359798-03



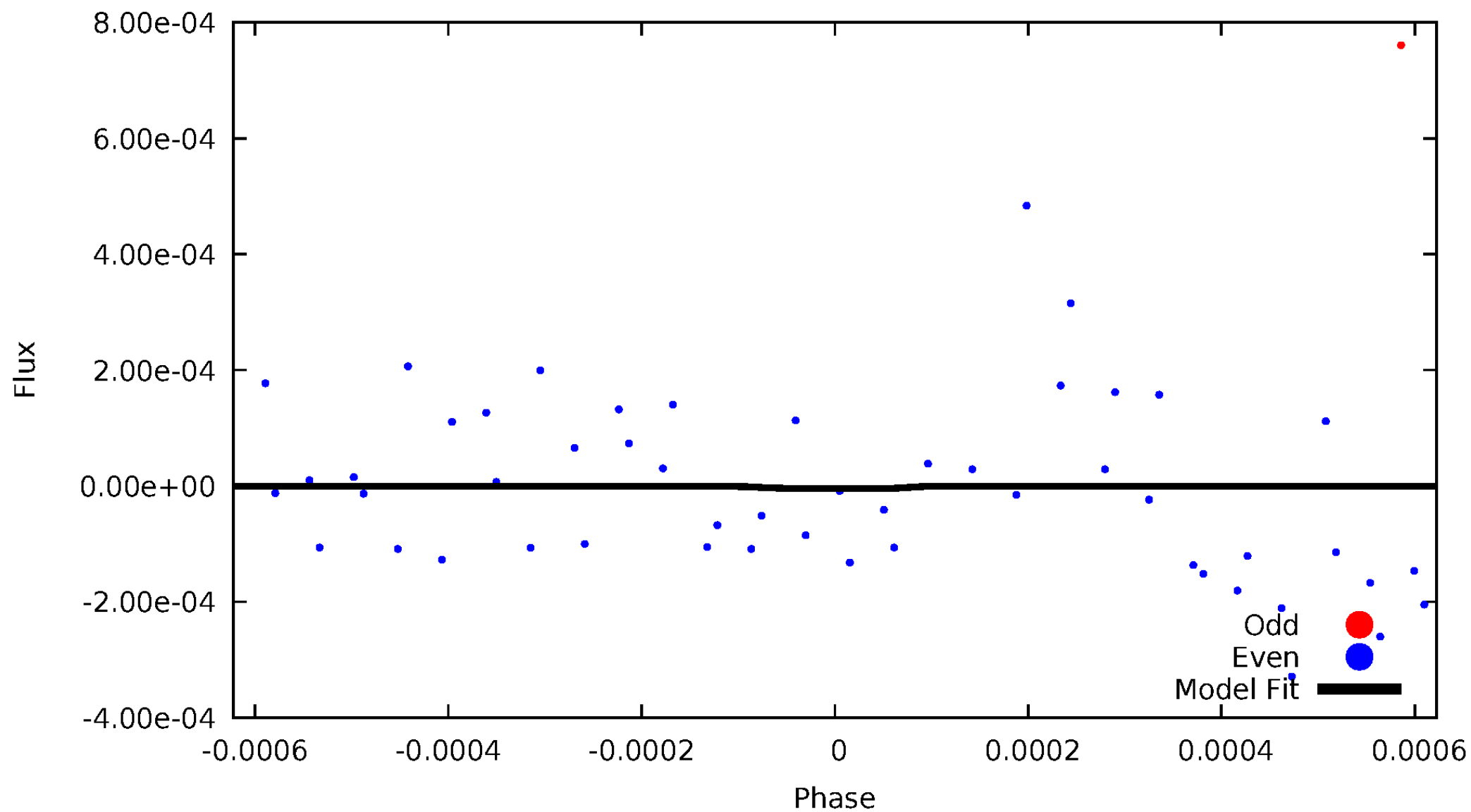
DV Odd/Even

TCE 006359798-03

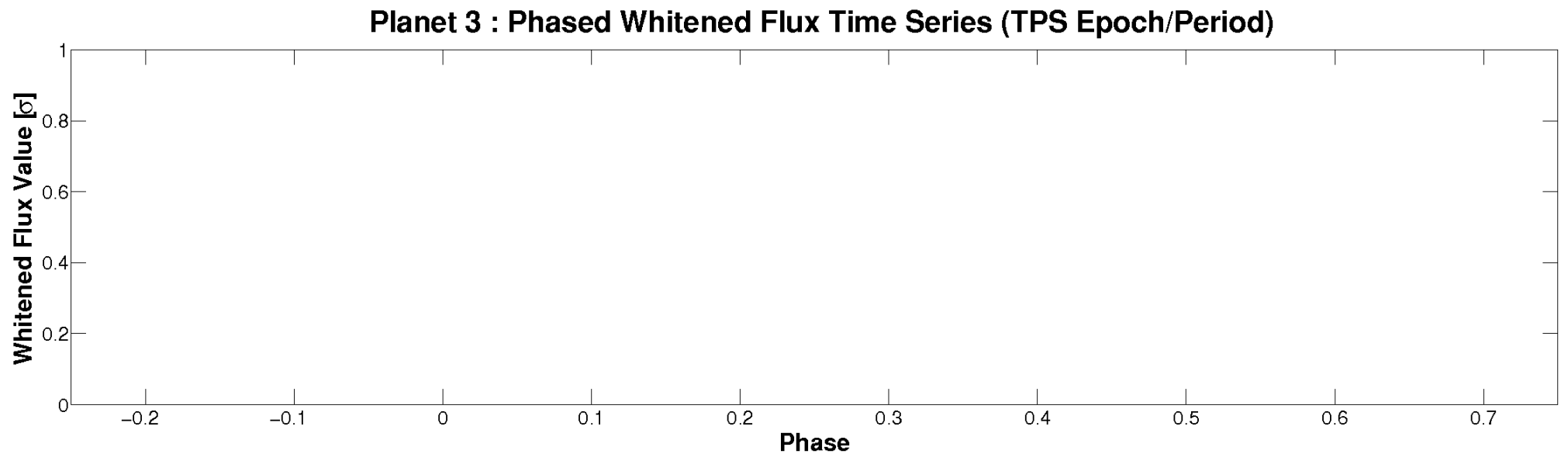
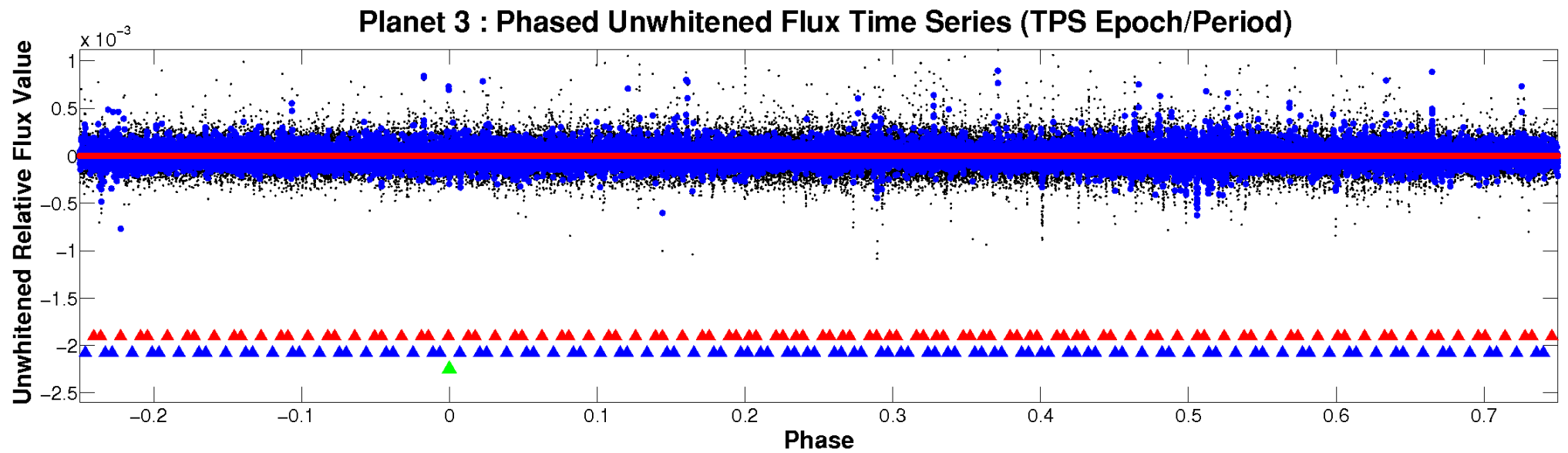


ALT Odd/Even

TCE 006359798-03

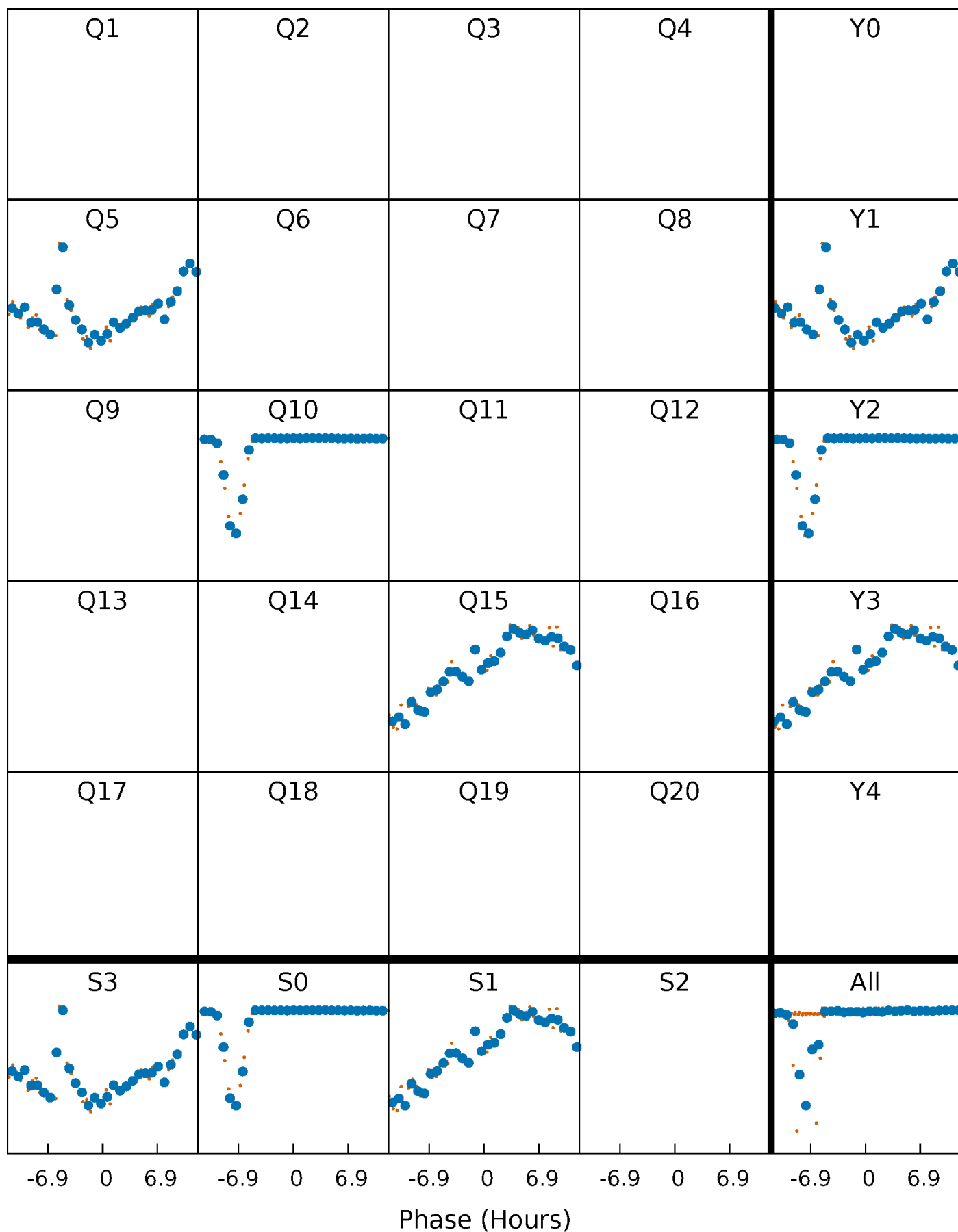


Non-Whitened Vs. Whitened Light Curve



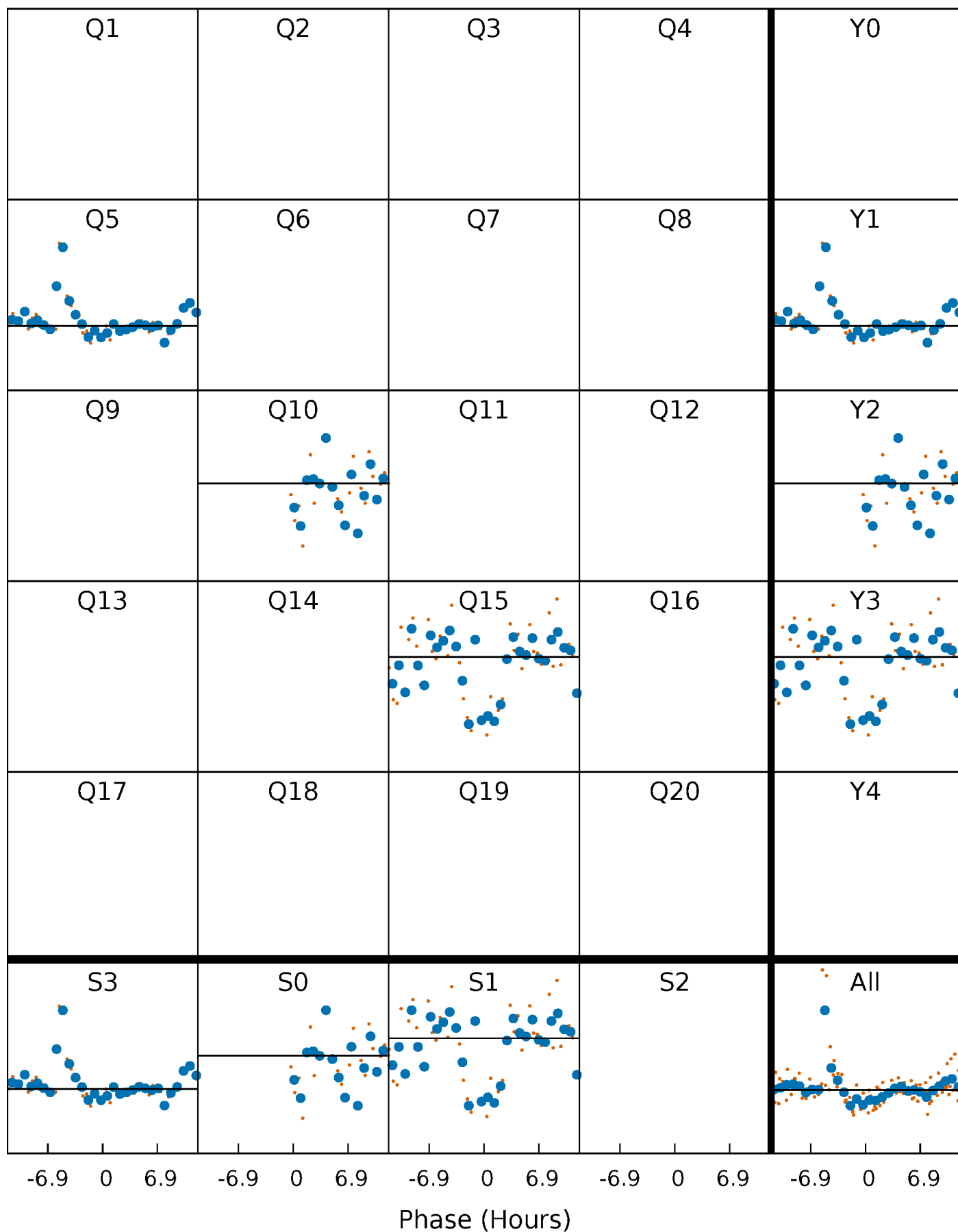
PDC Quarter-Phased Transit Curves

TCE 006359798-03 $P=446.895580$ Days $T_0=500.891863$ (BKJD)



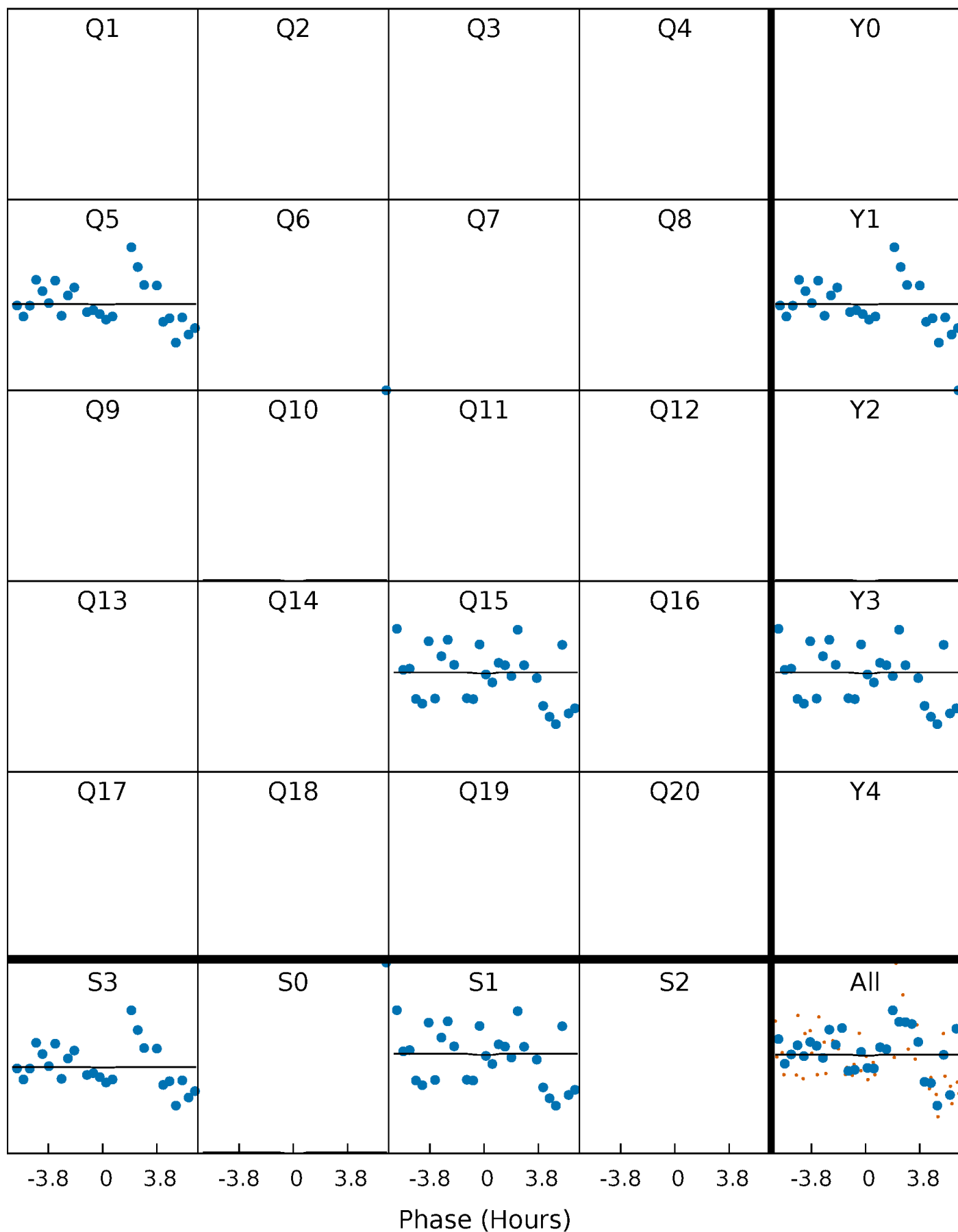
DV Quarter-Phased Transit Curves

TCE 006359798-03 $P=446.895580$ Days $T_0=500.891863$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

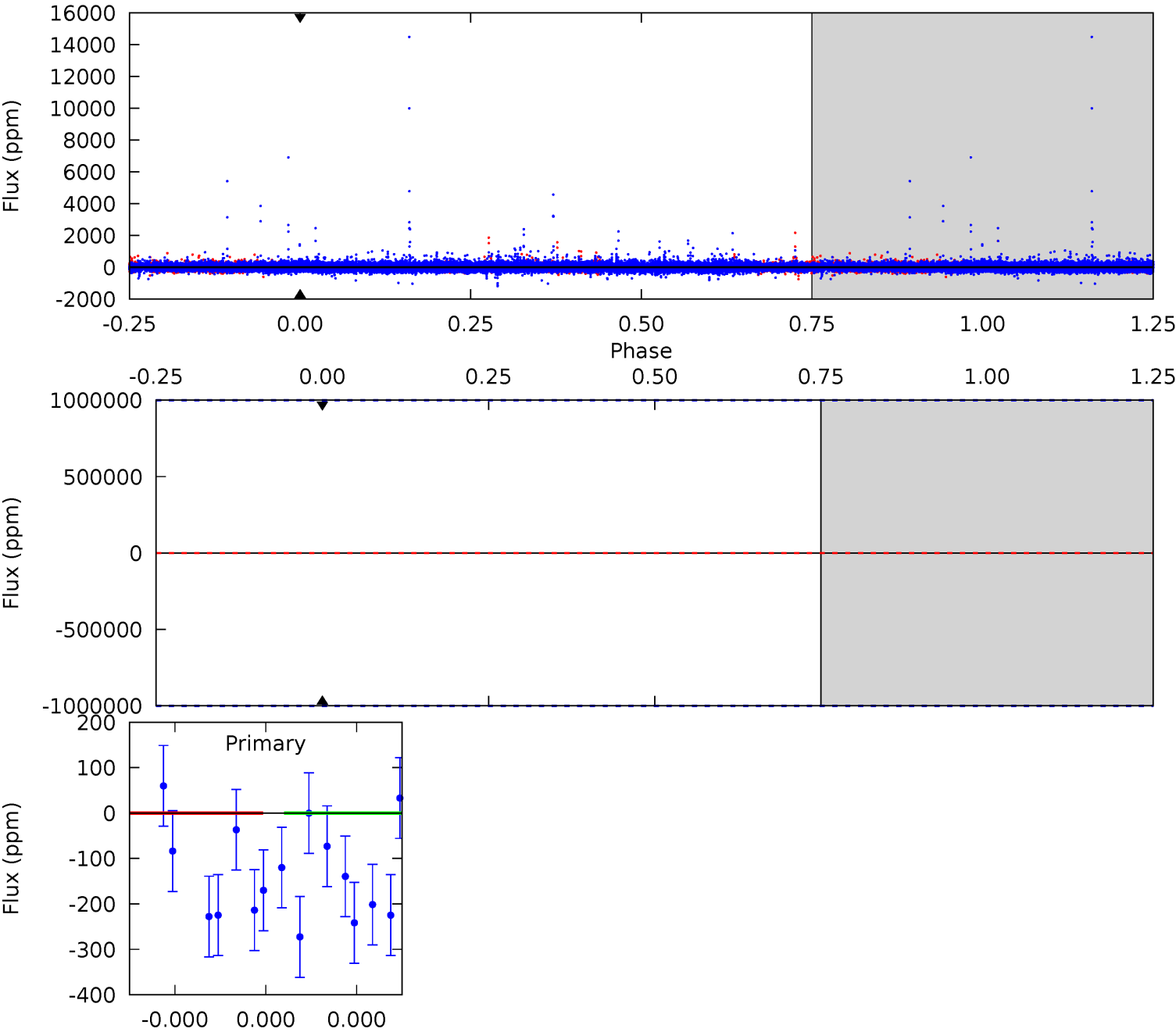
TCE 006359798-03 $P=446.895580$ Days $T_0=500.618067$ (BKJD)



DV Model-Shift Uniqueness Test

006359798-03, P = 446.895580 Days, E = 53.996283 Days

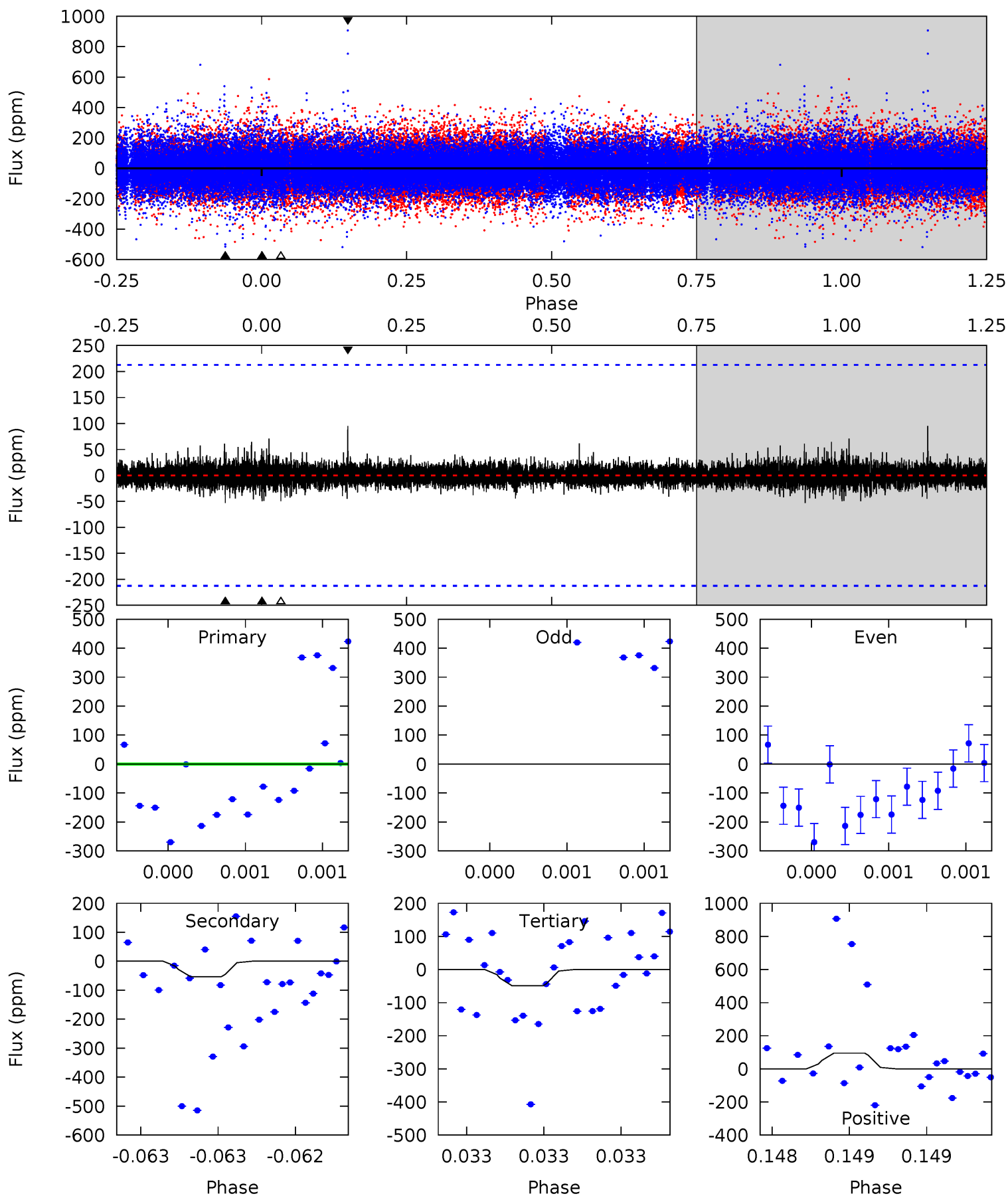
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006359798-03, P = 446.895580 Days, E = 53.722487 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.33	1.43	1.32	2.55	5.71	3.69	0.29	0.00	-1.22	0.10	-1.12	0.38	1.00	0.64	0.75



Stellar Parameters For KIC 006359798

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5850^{+105}_{-117}	$4.404^{+0.080}_{-0.120}$	$0.000^{+0.150}_{-0.150}$	$1.037^{+0.164}_{-0.101}$	$0.994^{+0.074}_{-0.066}$	$1.254^{+0.405}_{-0.432}$
	+2%/-2%	+2%/-3%	+inf%/-inf%	+16%/-10%	+7%/-7%	+32%/-34%
Source	SPE57	SPE57	SPE57	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006359798-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$8.43^{+9.27}_{-5.73}$	345^{+15}_{-13}	-4746^{+27141}_{-16246}	$-21894.859^{+1979930.523}_{-1661315.890}$
Alt.	-53 ± 37	$8.14^{+8.45}_{-5.99}$	345^{+14}_{-12}	2562^{+1217}_{-489}	414^{+5735}_{-346}

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 $A_{obs} \gg 1.0$

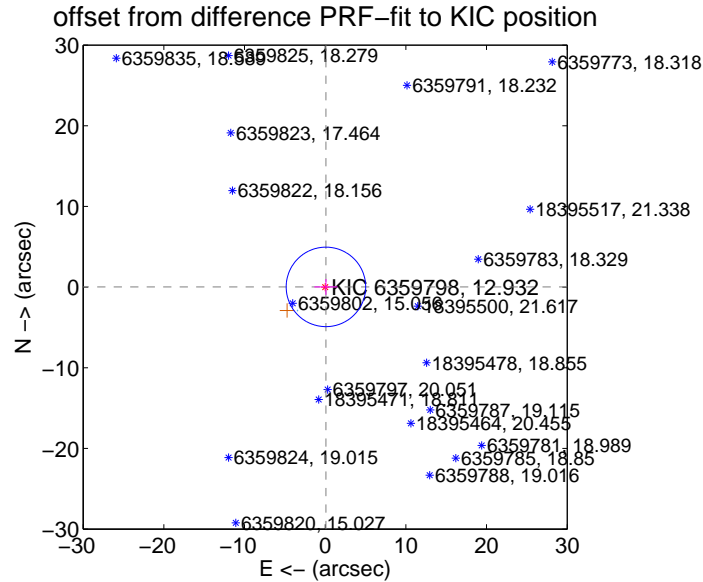
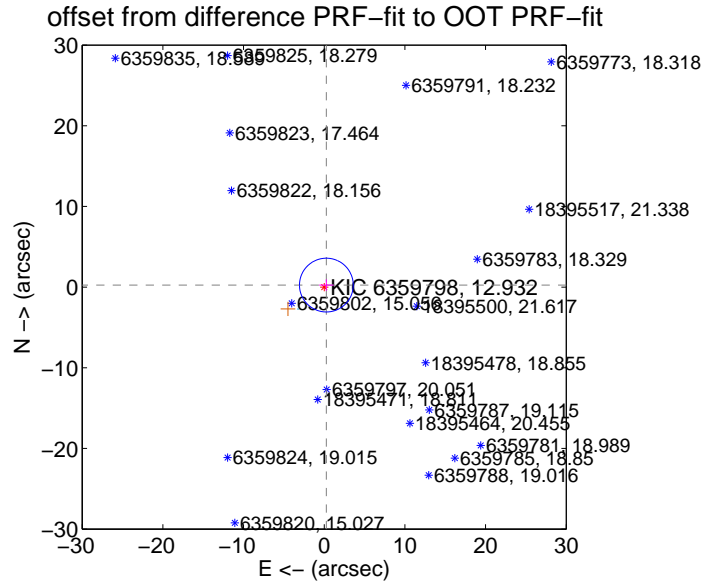
DV Centroid Data

Supplemental centroid analysis for 006359798-03. Kepler magnitude: 12.93. Transit SNR -1.00

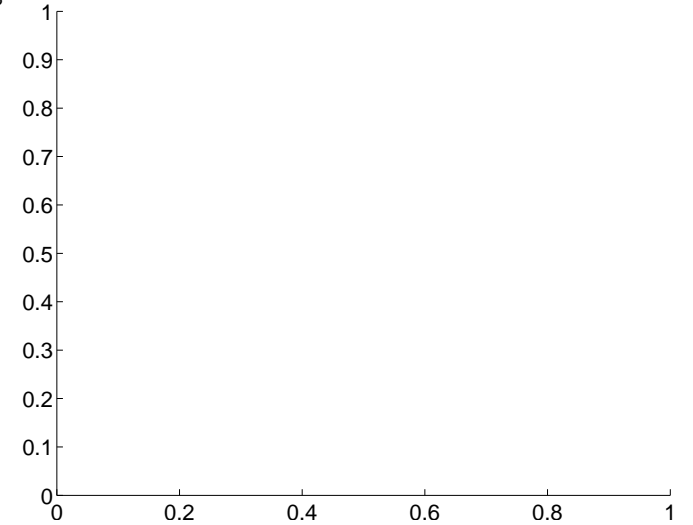
There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.365 ± 1.111	0.33	-0.267 ± 0.893	0.250 ± 0.704
PRF-fit source offset from KIC position	0.097 ± 1.642	0.06	-0.093 ± 1.440	0.025 ± 0.978
photometric centroid source offset	—	—	—	—



There are no photometric centroids

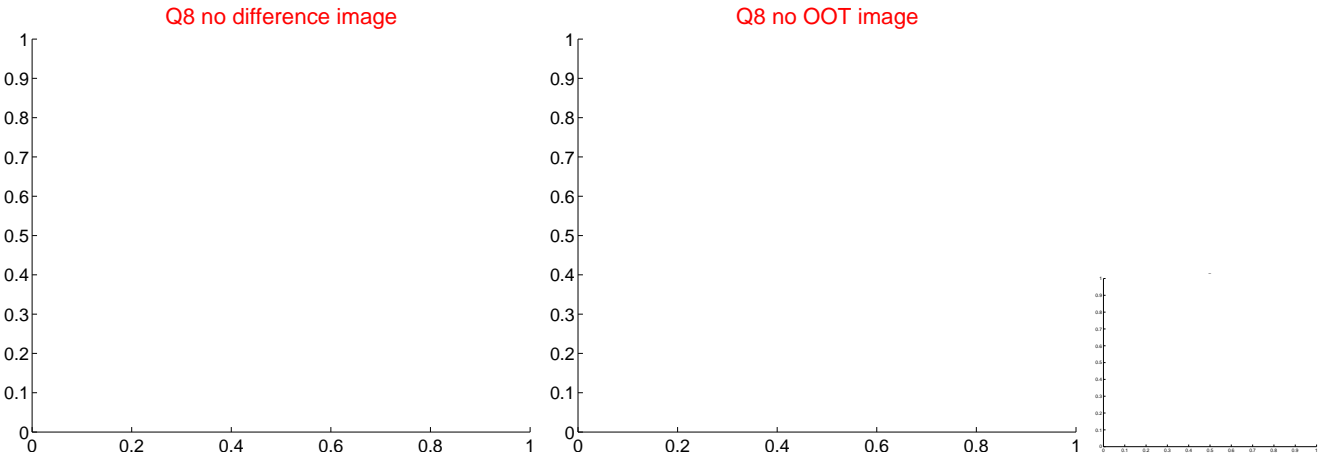
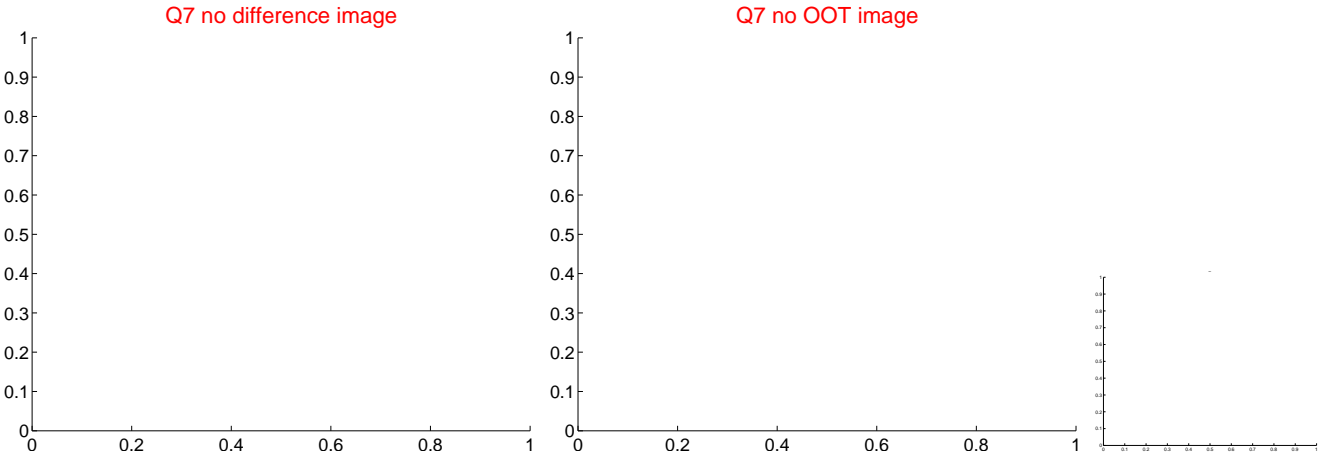
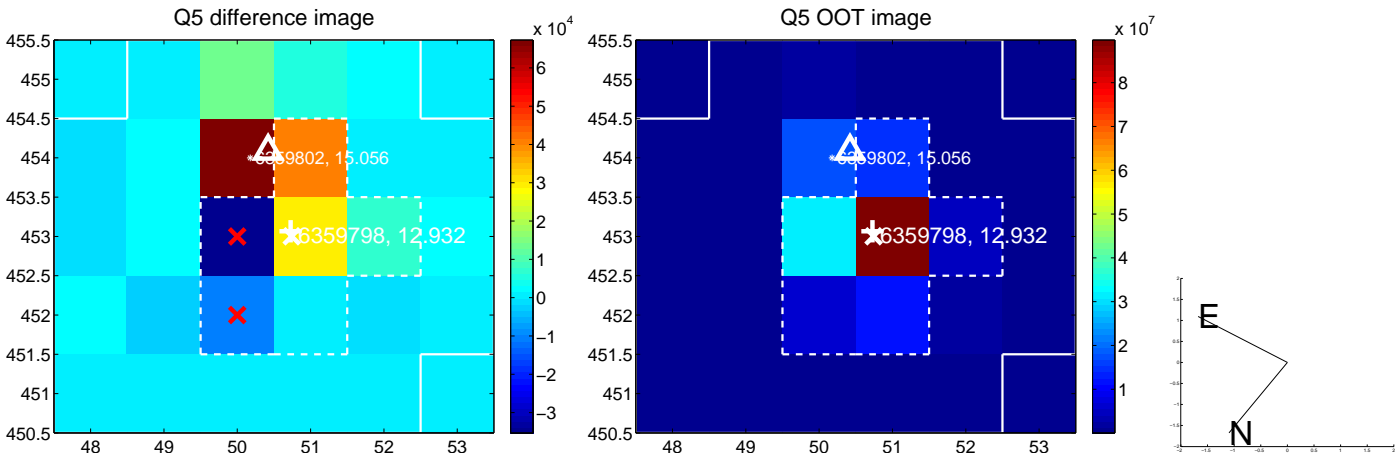


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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



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



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

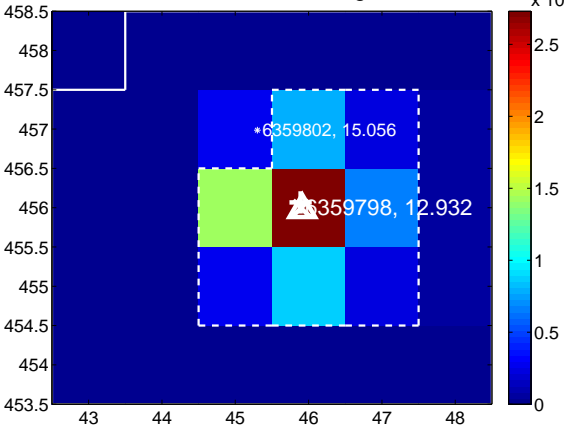
Q9 no difference image



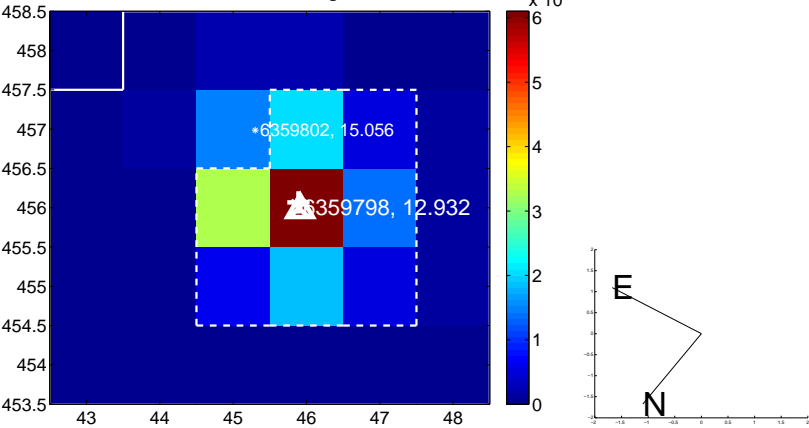
Q9 no OOT image



Q10 difference image



Q10 OOT image



Q11 no difference image



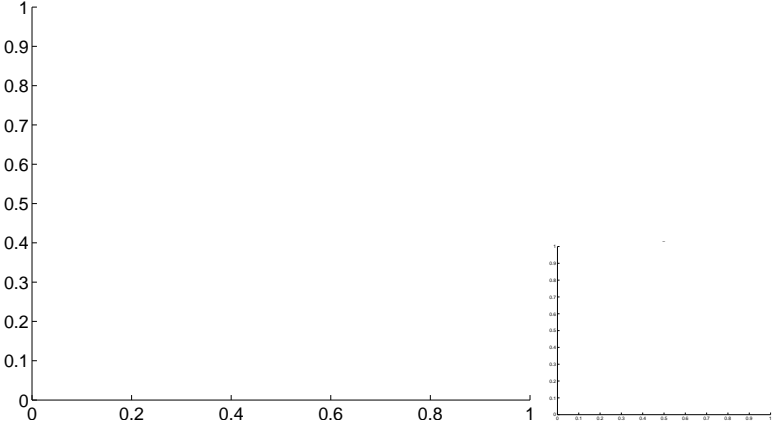
Q11 no OOT image



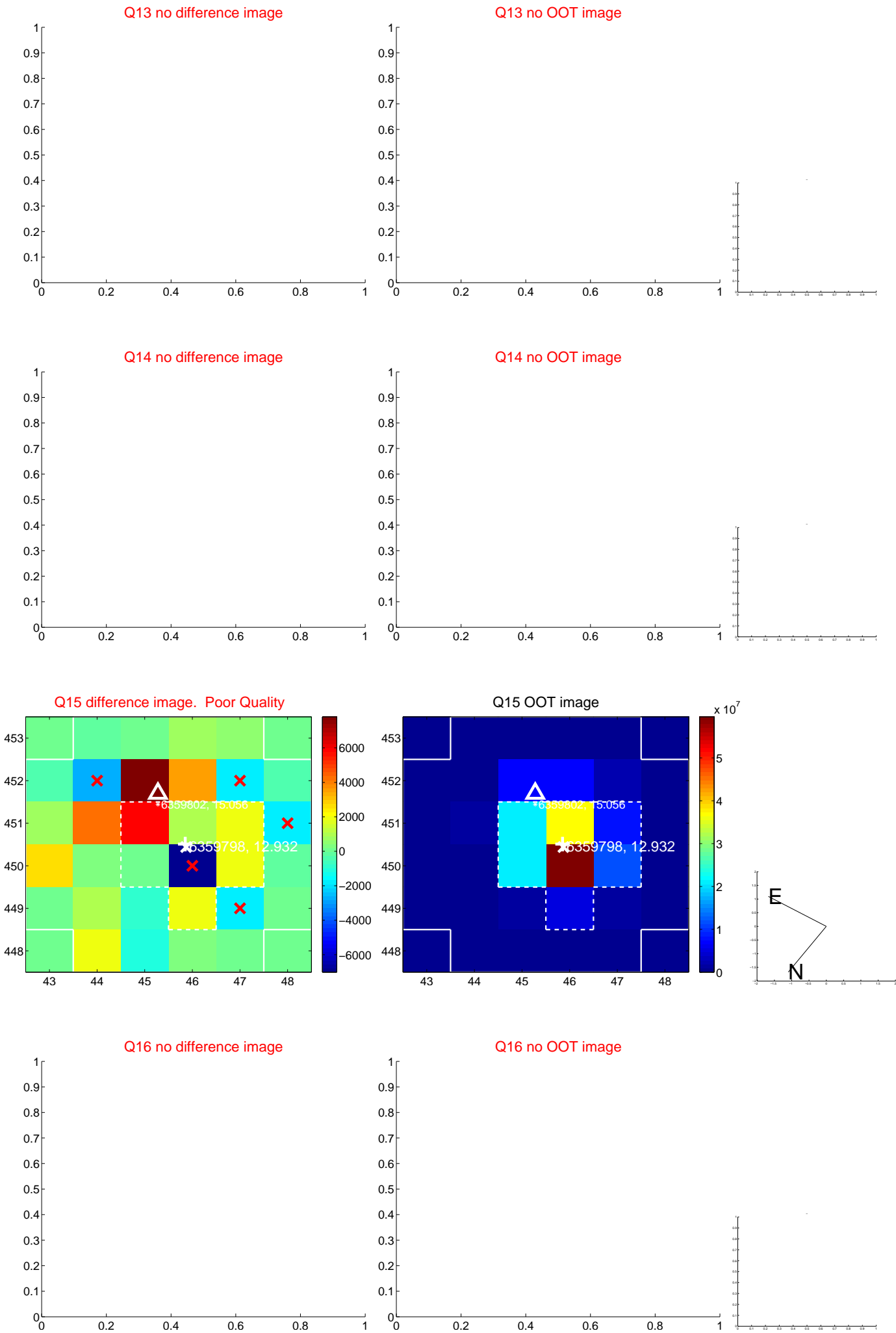
Q12 no difference image



Q12 no OOT image



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

