

KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

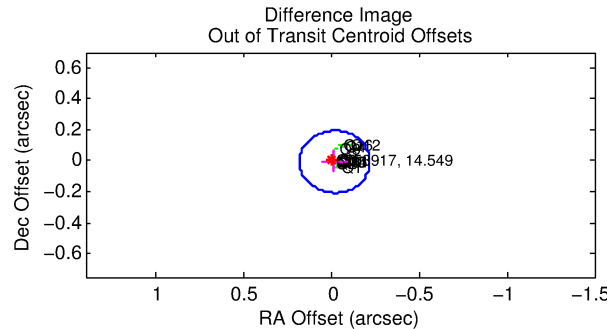
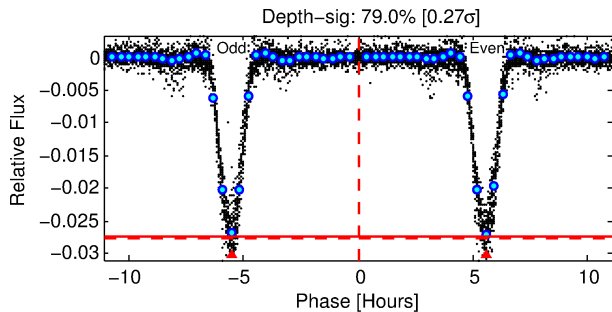
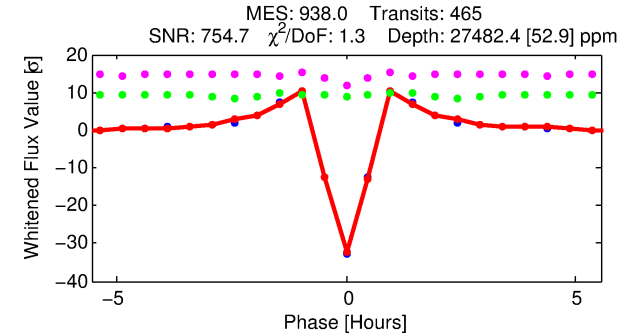
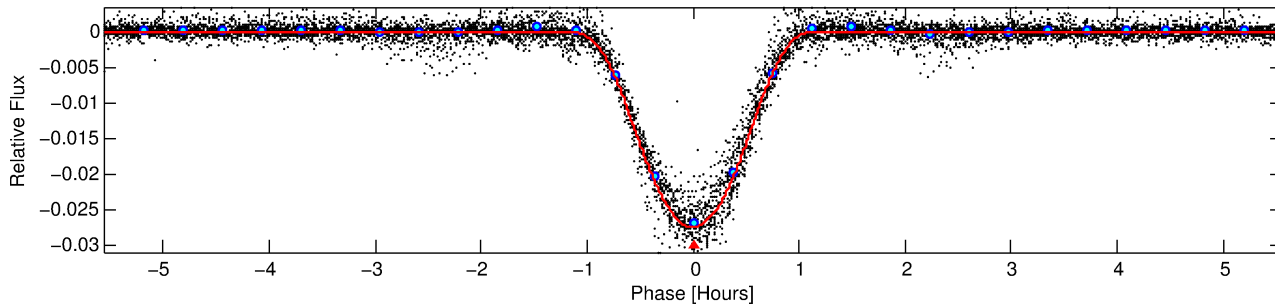
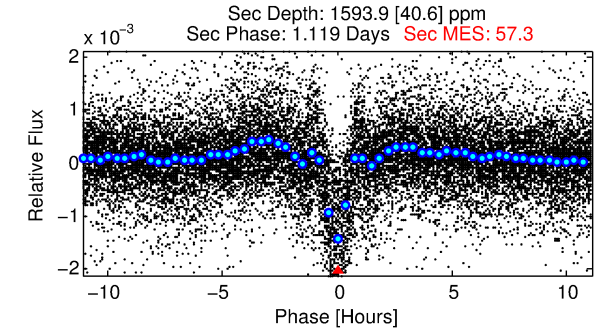
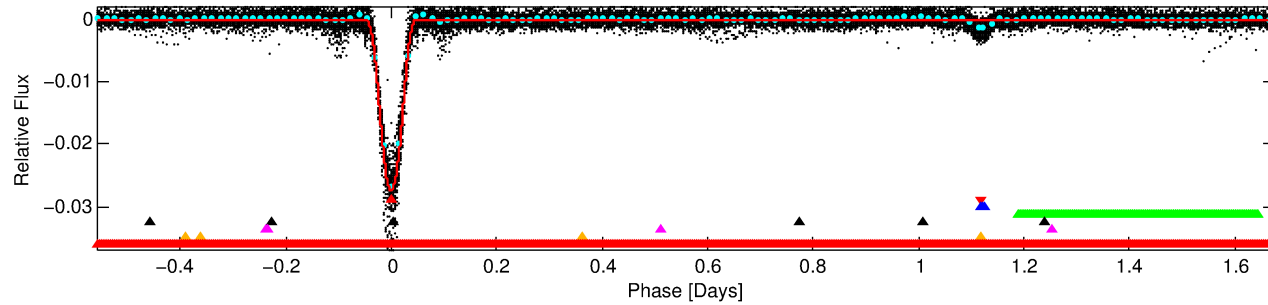
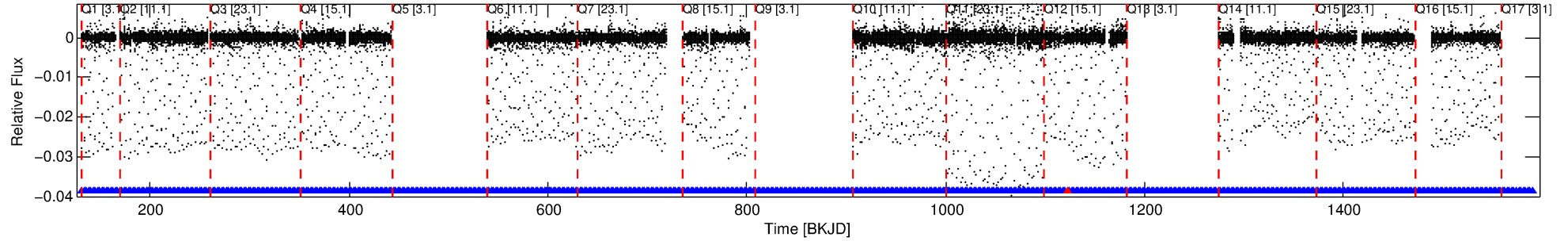
Ephemeris Match Information For 006758917-01

No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 1 of 7 Period: 2.236 d
KOI: K00453.01 Corr: 0.987

Kp: 14.55 R*: 0.80 Rs Teff: 5708.0 K Logg: 4.58 Fe/H: -0.340



DV Fit Results:

Period = 2.23611 [0.00000] d
Epoch = 131.6328 [0.0000] BKJD
Rp/R* = 0.2077 [0.0055]
a/R* = 7.45 [0.04]
b = 0.90 [0.01]
Seff = 587.60 [193.36]
Teq = 1255 [103] K
Rp = 18.02 [4.72] Re
a = 0.0320 [0.0069] AU
Ag = 2.76 [0.87] [2.02σ]
Teff = 2502 [77] K [9.68σ]

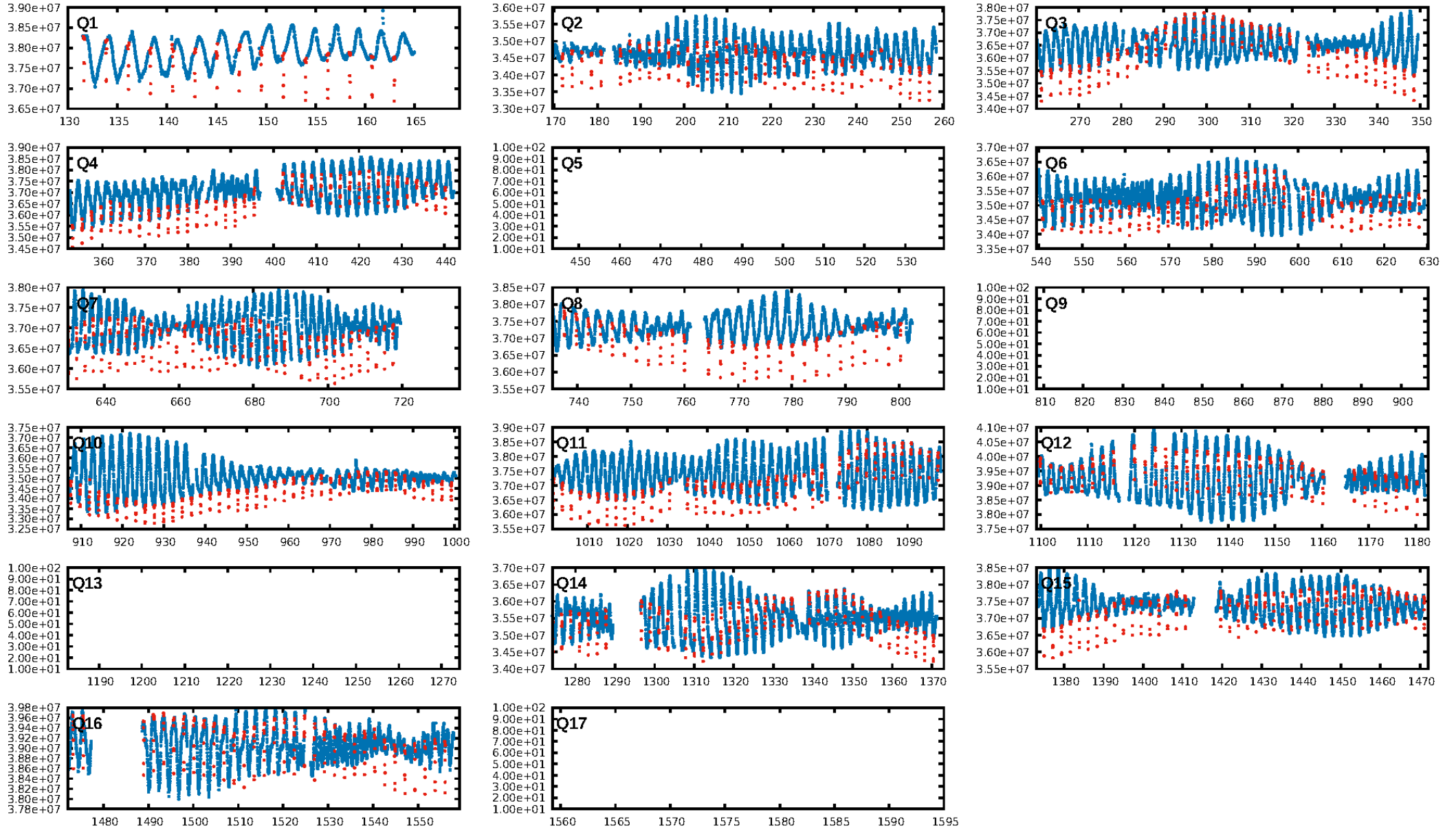
DV Diagnostic Results:

ShortPeriod-sig: 0.5% [0.01σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [449/450]
GhostDiagnostic-chr: 1.435
Centroid-sig: N/A
Centroid-so: 0.094 arcsec [20.36σ]
OotOffset-rm: 0.019 arcsec [0.29σ]
KicOffset-rm: 0.181 arcsec [2.65σ]
OotOffset-st: 4/4/4/1 [13]
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DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 0.08 [1/13]

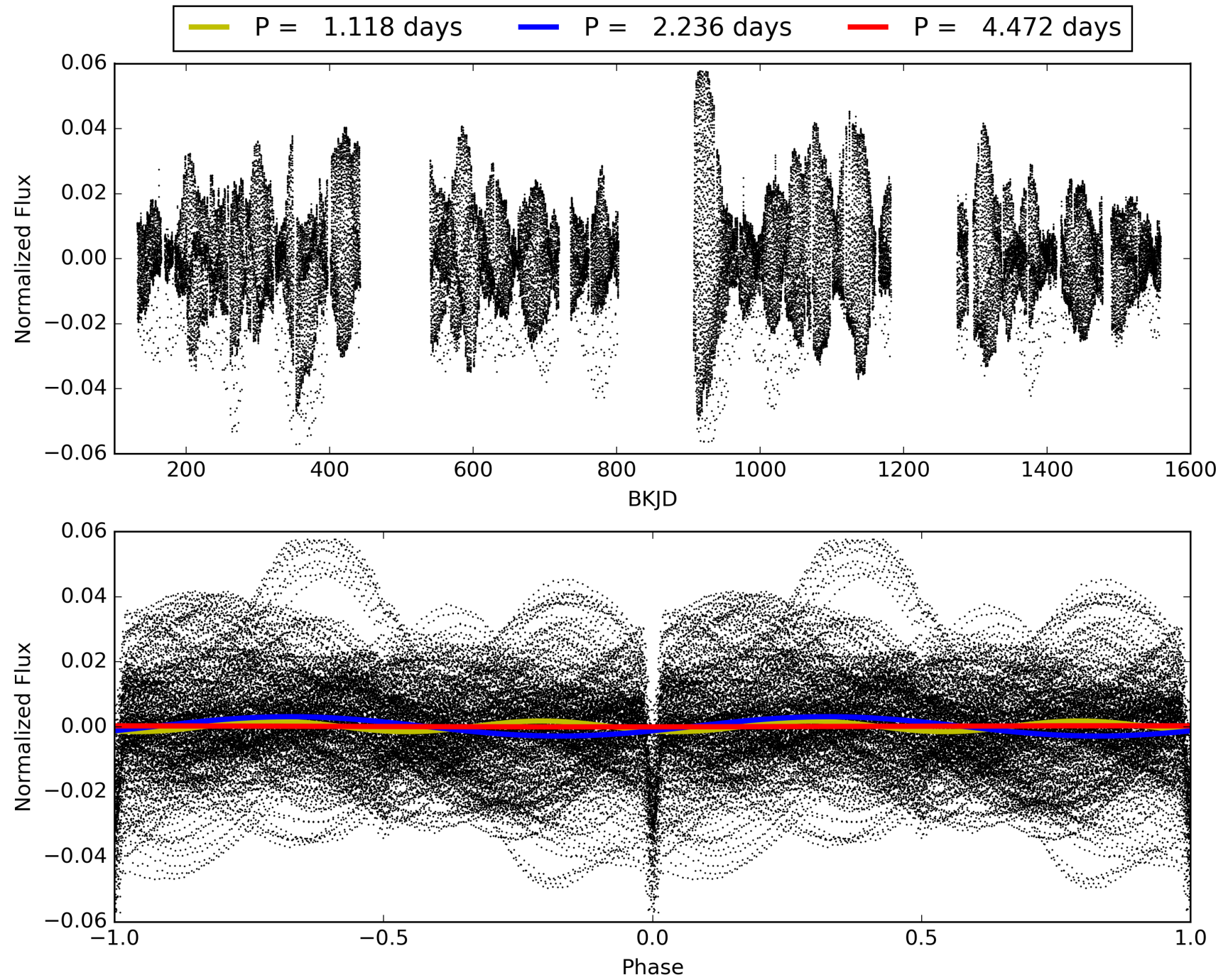
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006758917-01, PDC Light Curves

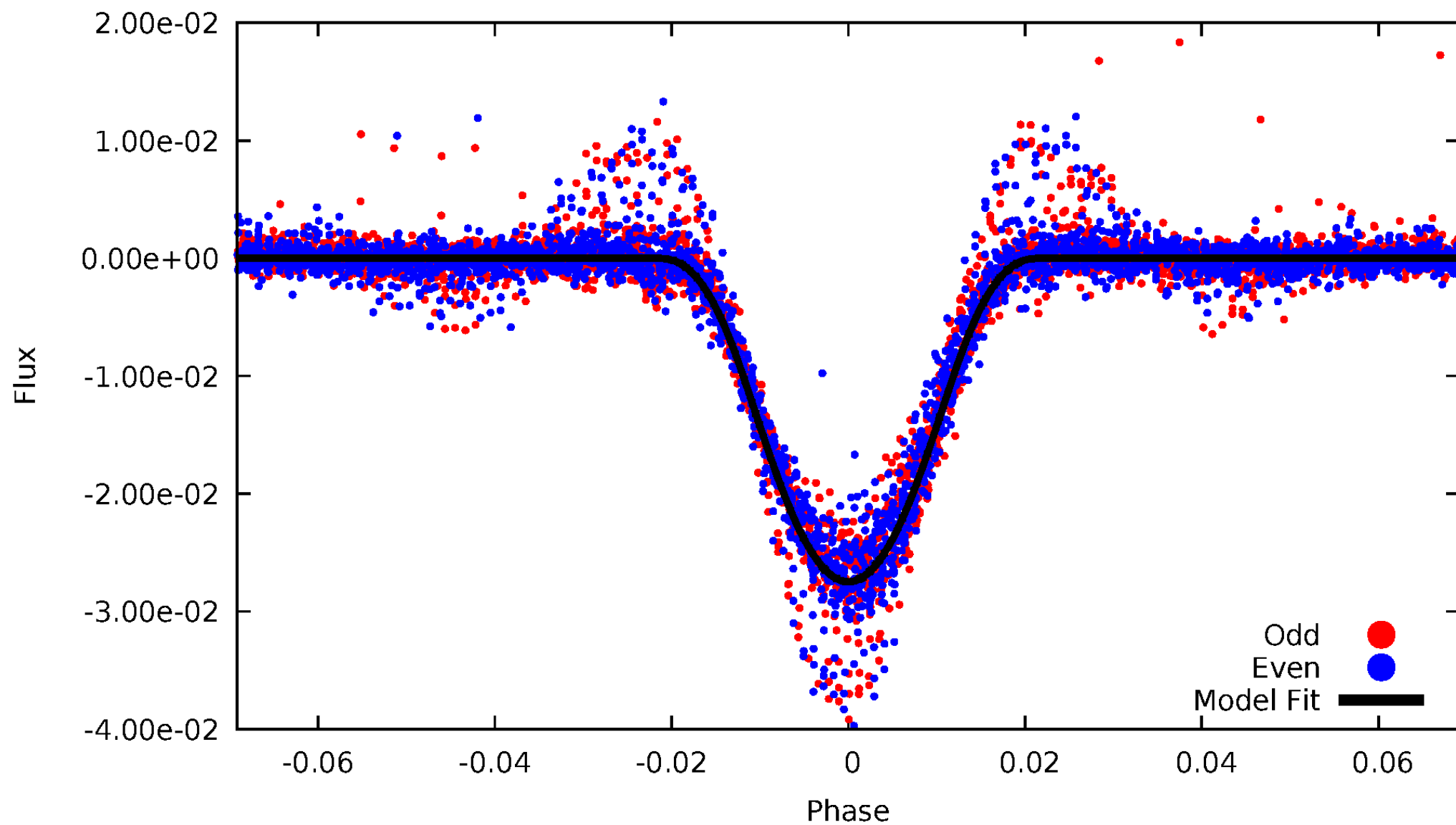


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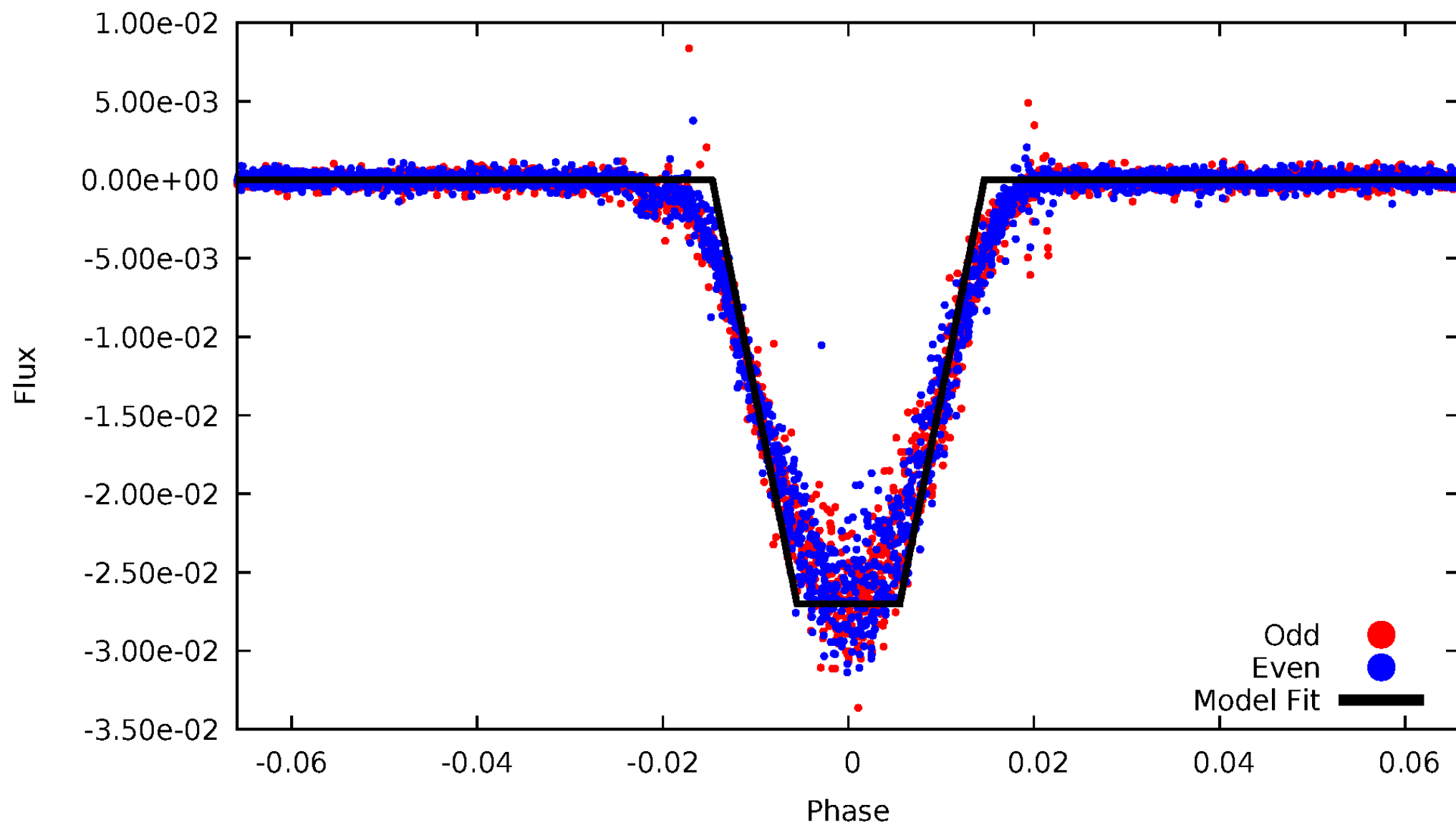
DV Odd/Even

TCE 006758917-01



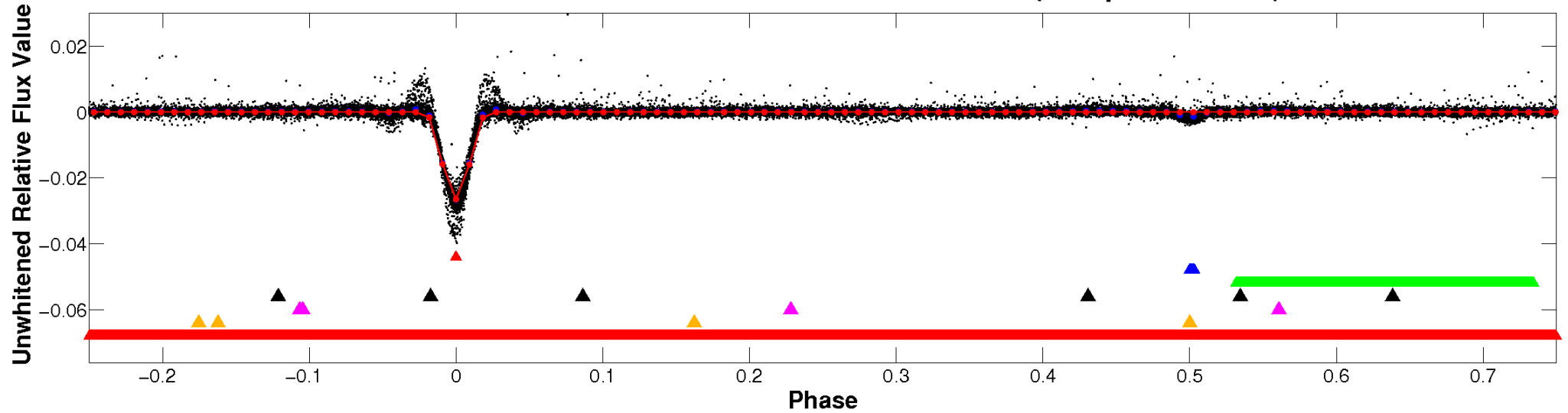
ALT Odd/Even

TCE 006758917-01

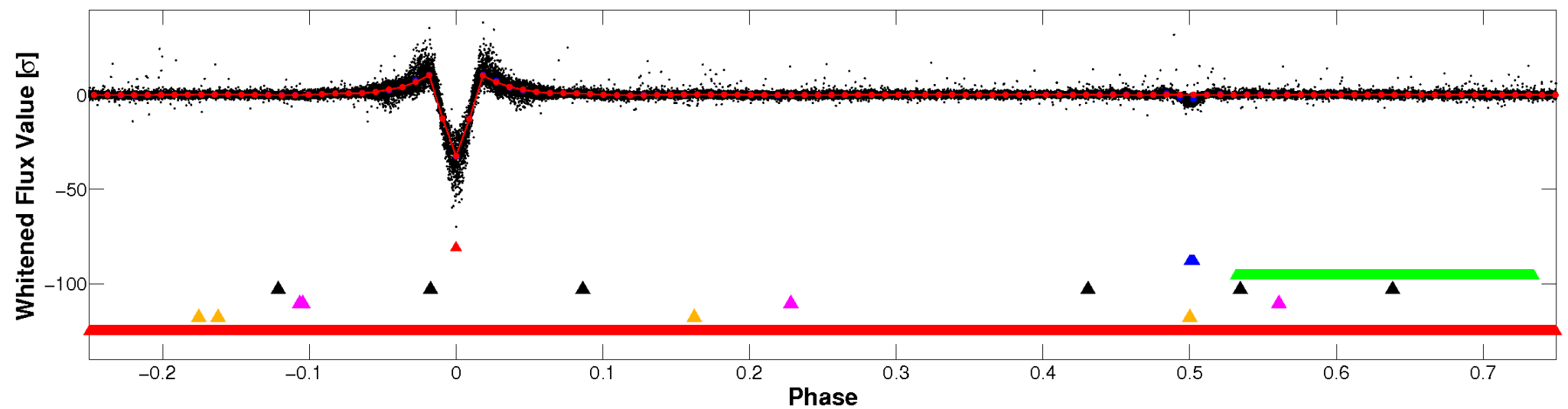


Non-Whitened Vs. Whitened Light Curve

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

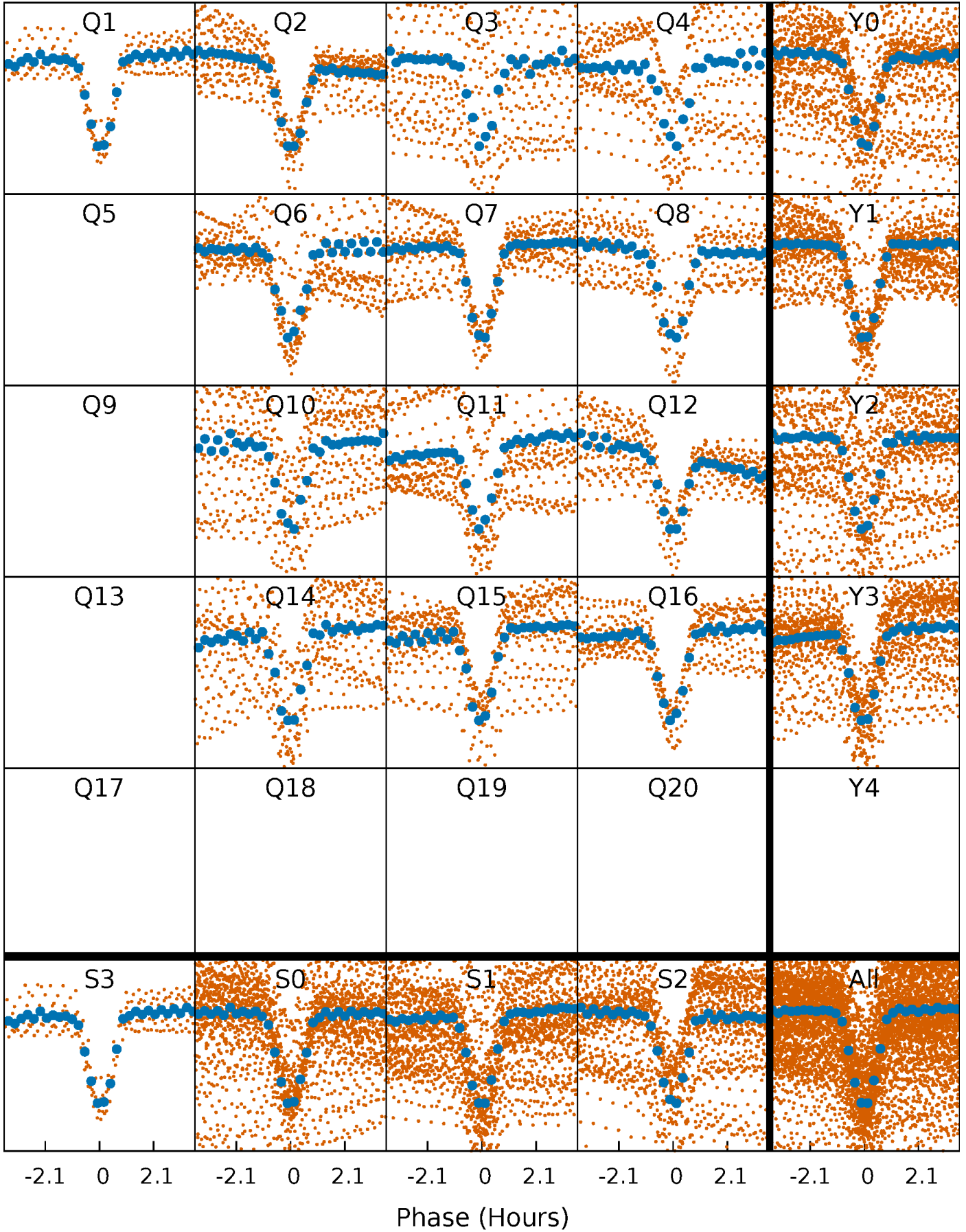


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



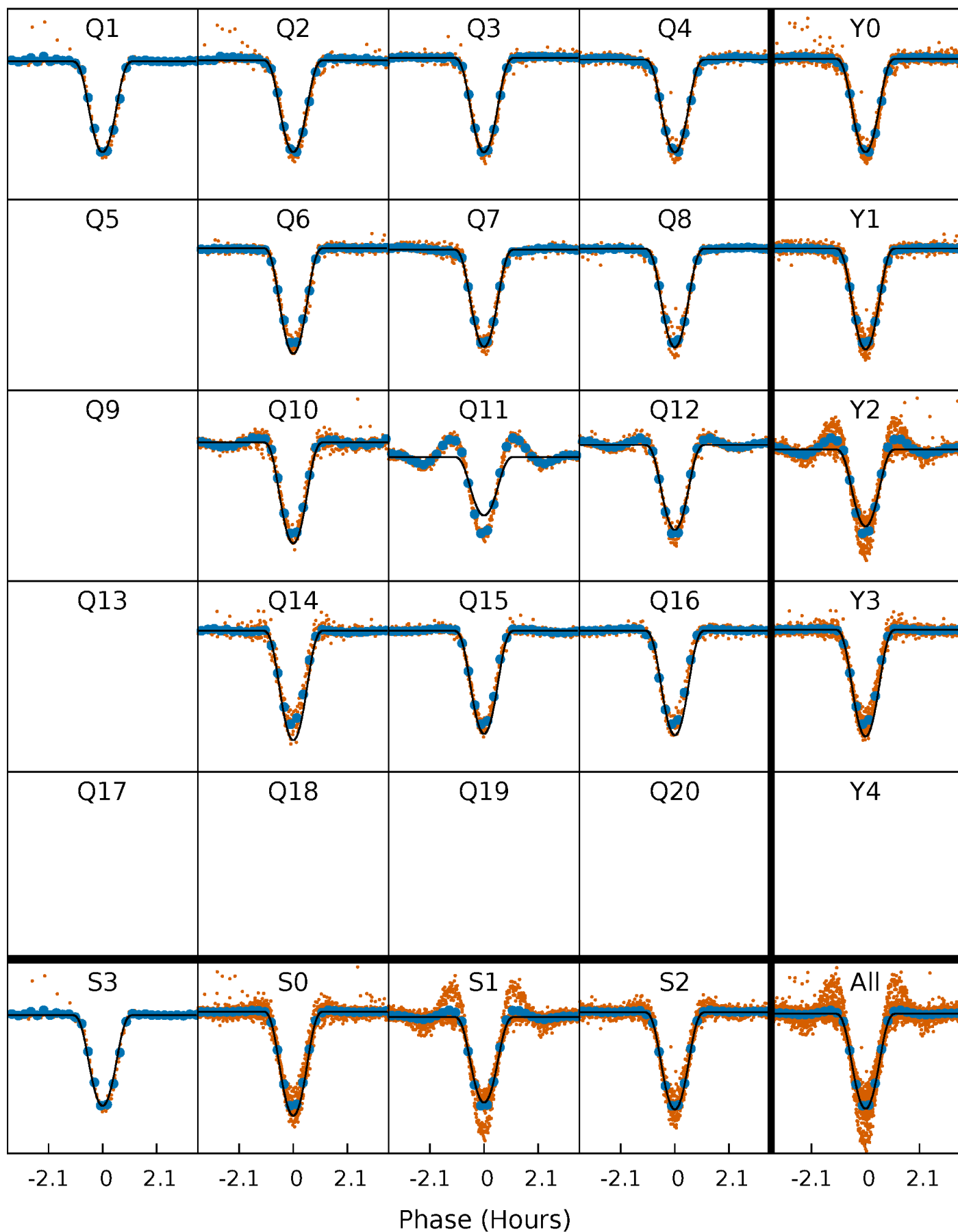
PDC Quarter-Phased Transit Curves

TCE 006758917-01 P= 2.236108 Days $T_0=131.632781$ (BKJD)



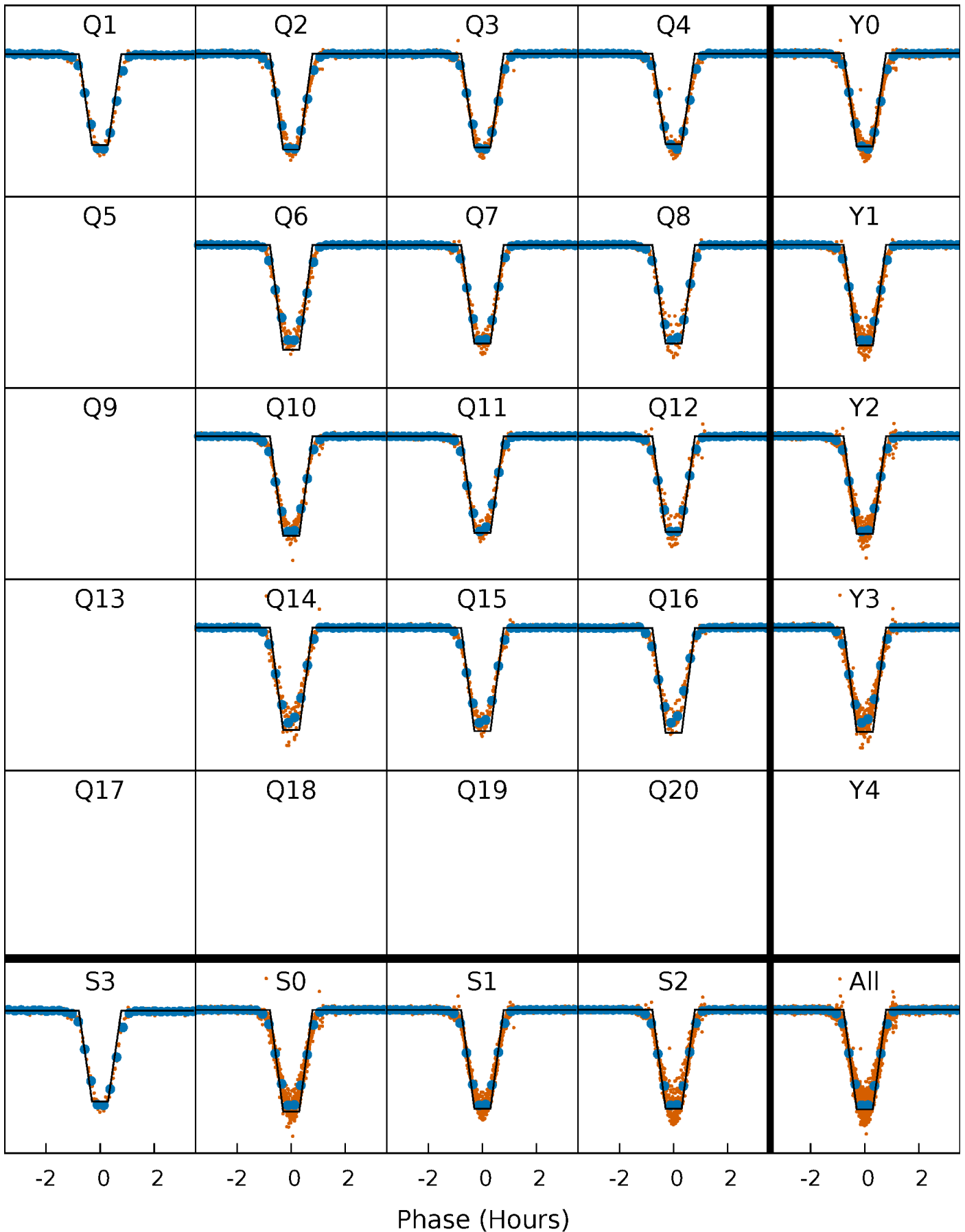
DV Quarter-Phased Transit Curves

TCE 006758917-01 P= 2.236108 Days $T_0=131.632781$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

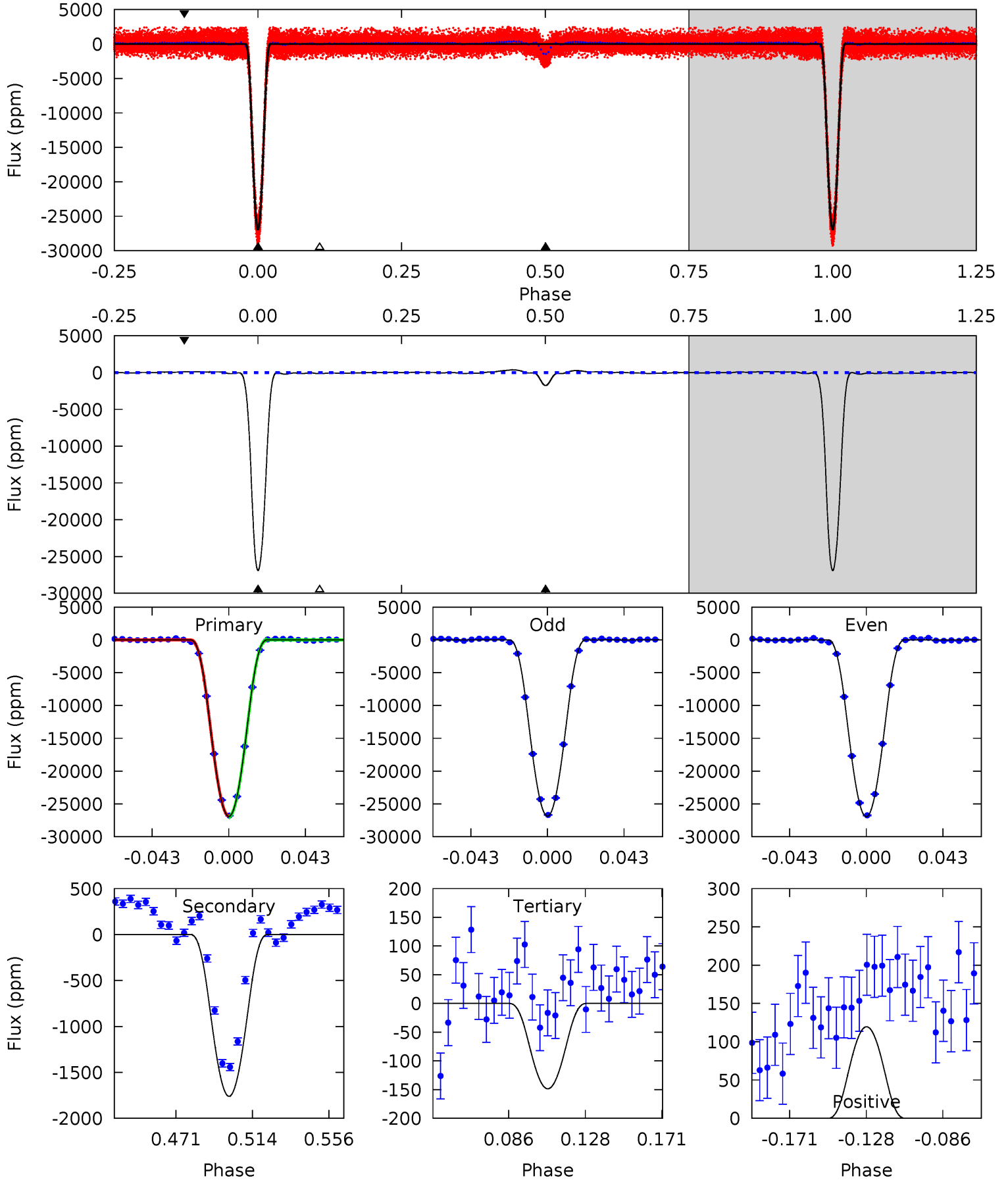
TCE 006758917-01 P= 2.236107 Days $T_0=131.632749$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-01, P = 2.236108 Days, E = 129.396673 Days

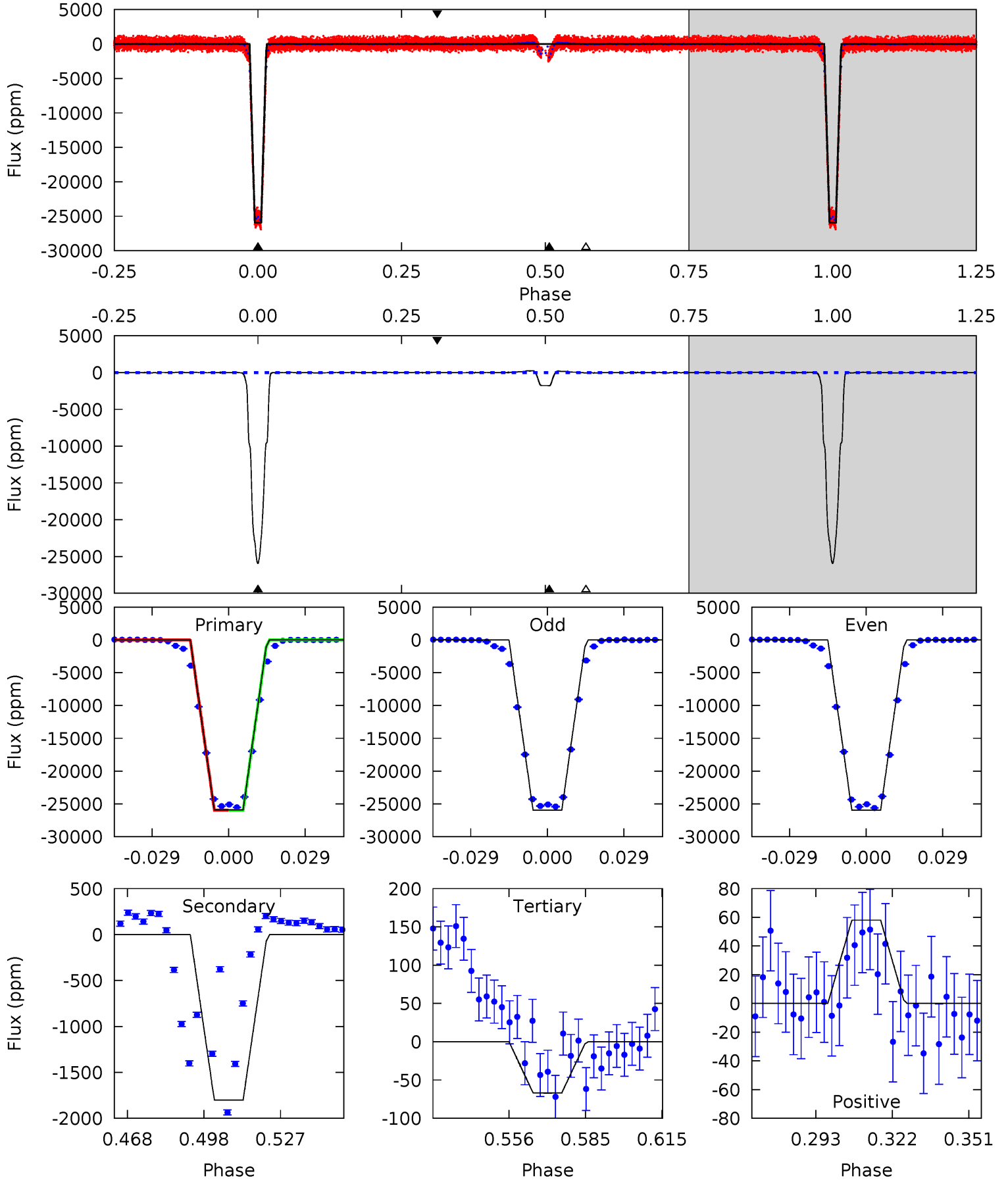
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1753	114.7	9.69	7.79	4.74	2.03	6.83	1743	1745	105.0	106.9	2.68	1.01	0.01	3.33



Alt Model-Shift Uniqueness Test

006758917-01, P = 2.236107 Days, E = 129.396642 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1863	129.5	4.79	4.17	4.82	2.18	2.94	1858	1859	124.7	125.3	0.75	1.00	0.01	0



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-01 / KOI 0453.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1761 ± 15	$18.71^{+2.48}_{-1.46}$	1798^{+105}_{-79}	3115^{+59}_{-57}	$2.807^{+0.391}_{-0.565}$
Alt.	-1803 ± 14	$14.94^{+1.85}_{-1.26}$	1802^{+107}_{-81}	3378^{+69}_{-70}	$4.534^{+0.713}_{-0.915}$

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 $A_{obs} \gg 1.0$

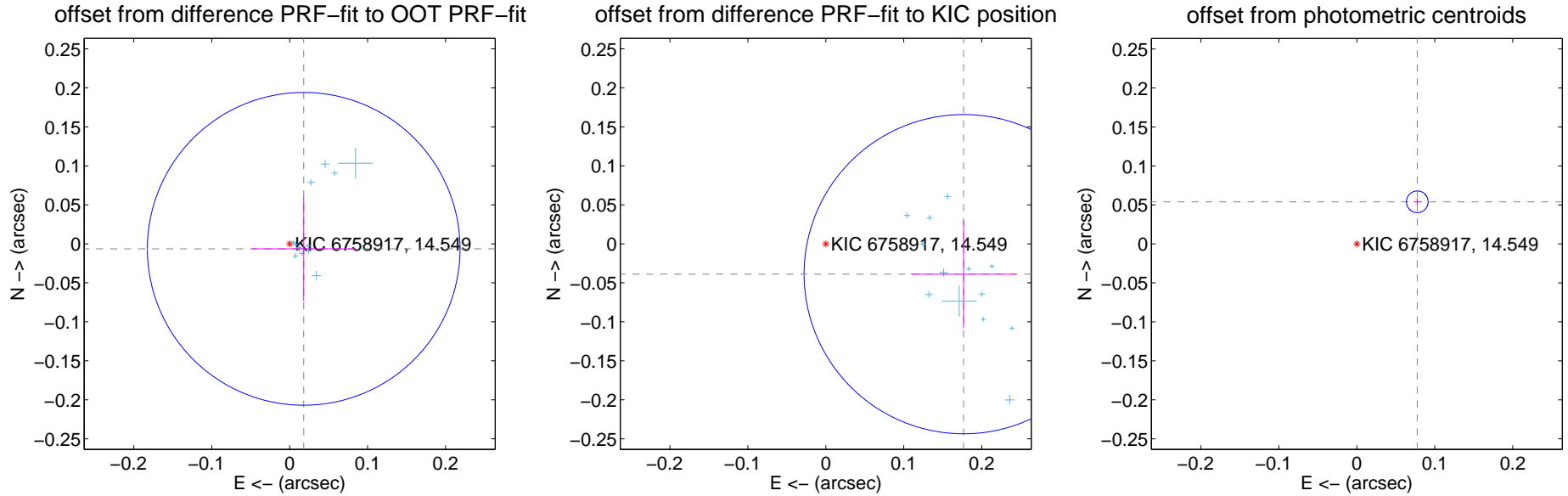
DV Centroid Data

Supplemental centroid analysis for 006758917-01. Kepler magnitude: 14.55. Transit SNR 754.73

There are 13 quarters with good PRF difference image offsets

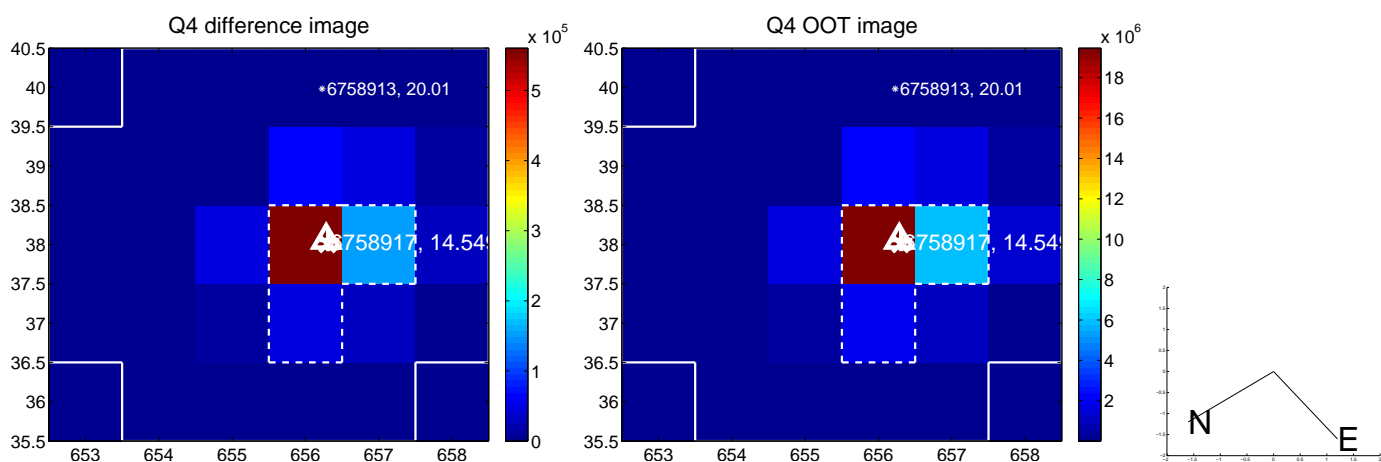
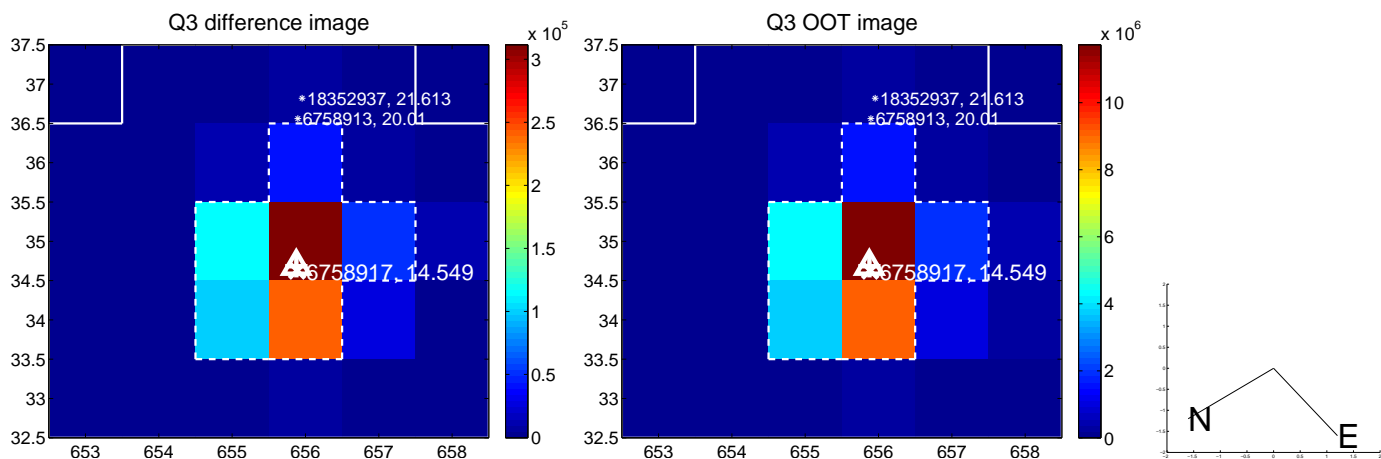
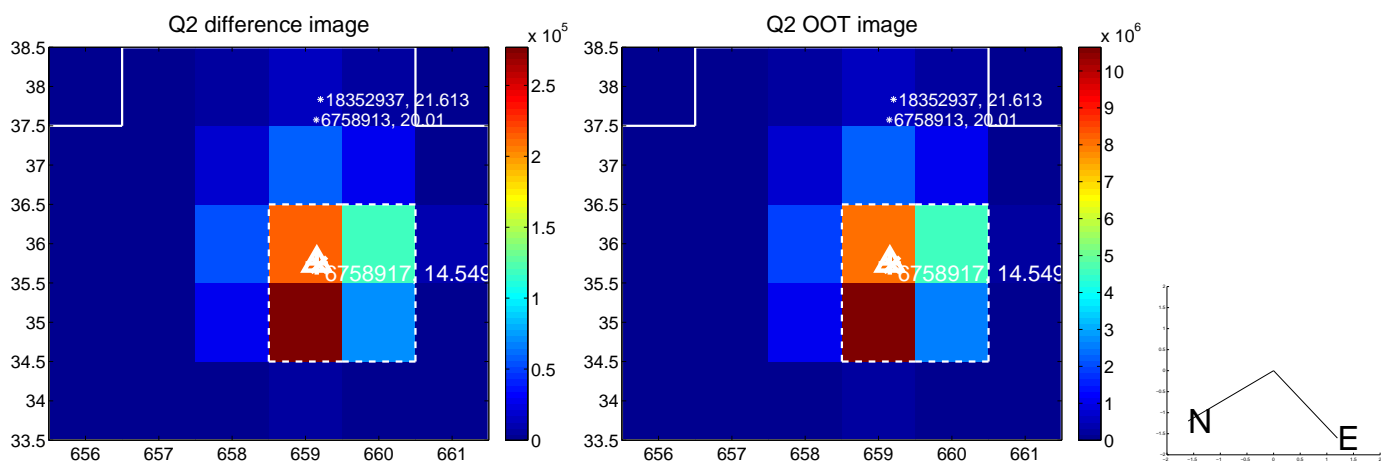
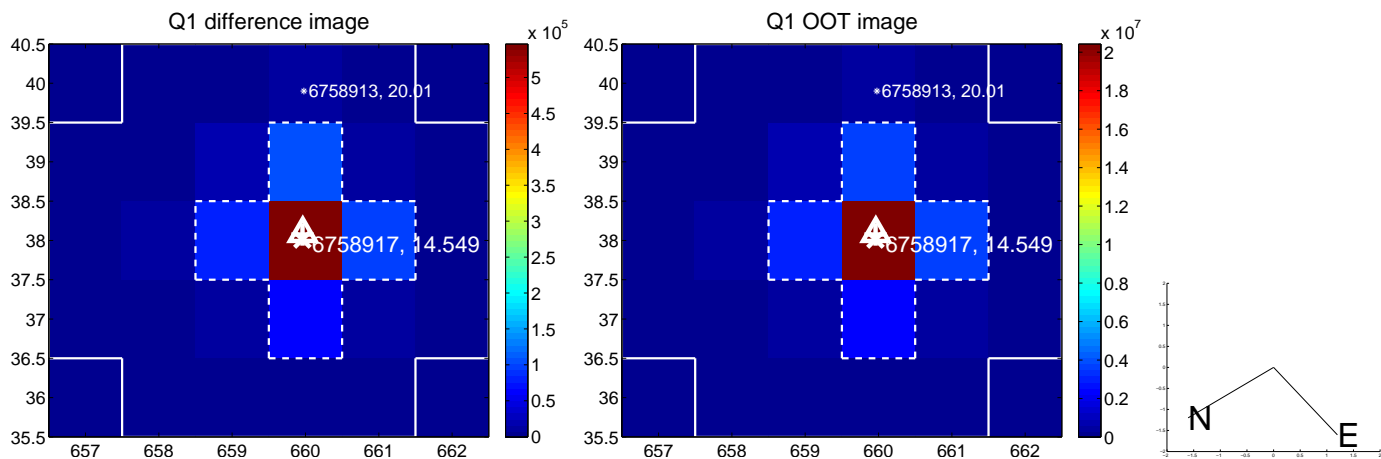
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.019 ± 0.067	0.29	-0.018 ± 0.067	-0.006 ± 0.067
PRF-fit source offset from KIC position	0.181 ± 0.068	2.65	-0.177 ± 0.068	-0.039 ± 0.069
photometric centroid source offset	0.09 ± 0.00	20.36	-0.08 ± 0.00	0.05 ± 0.00

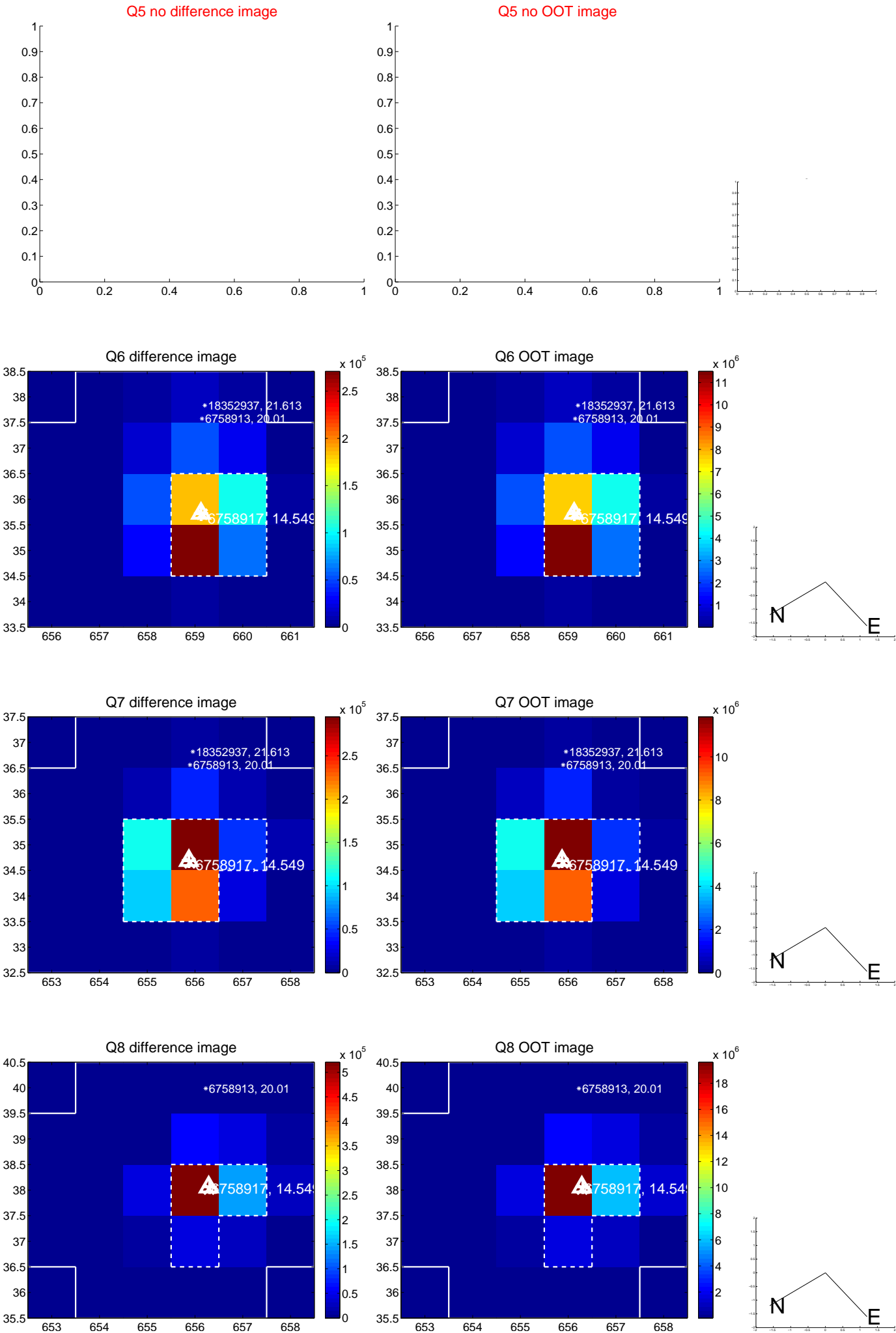


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

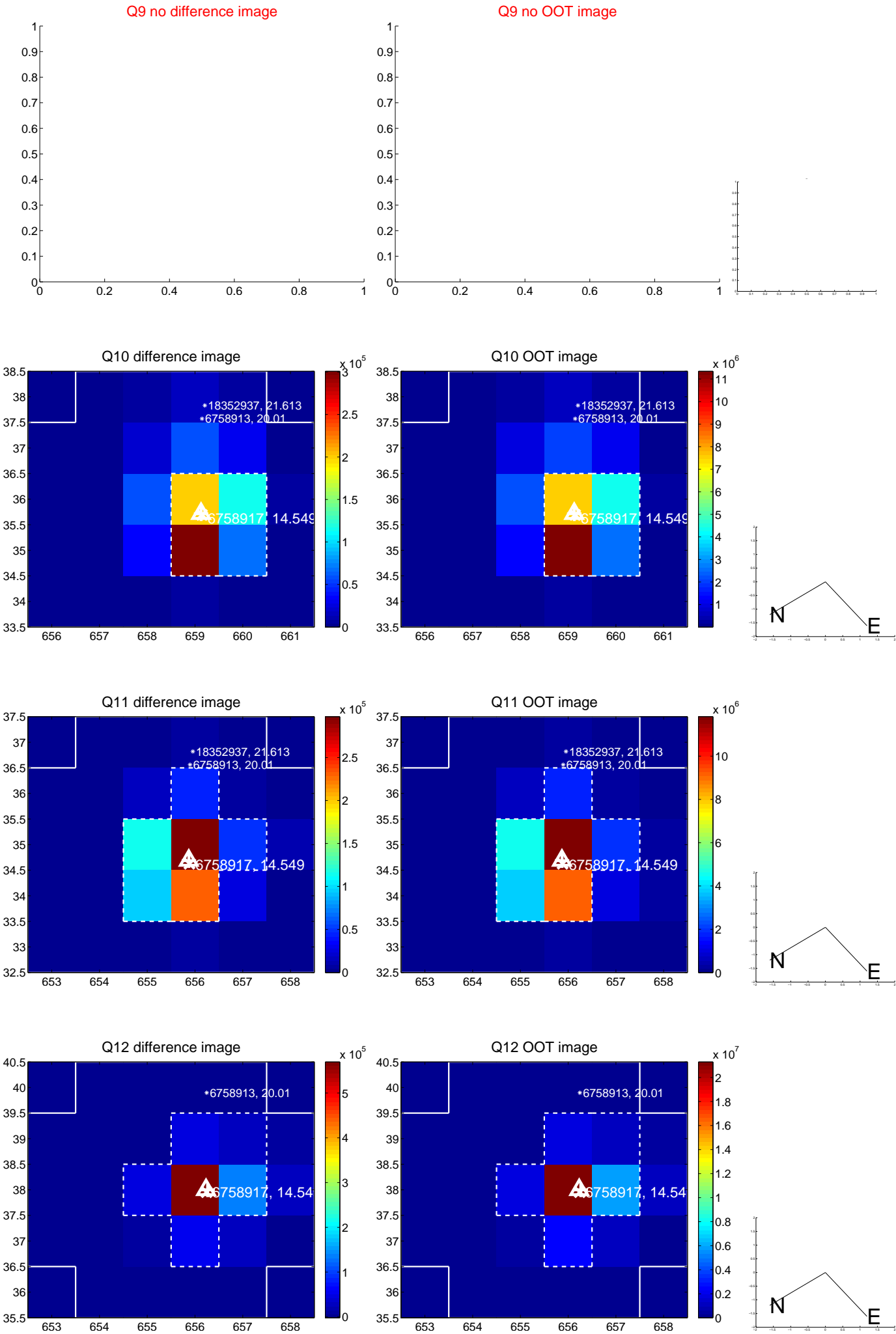
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



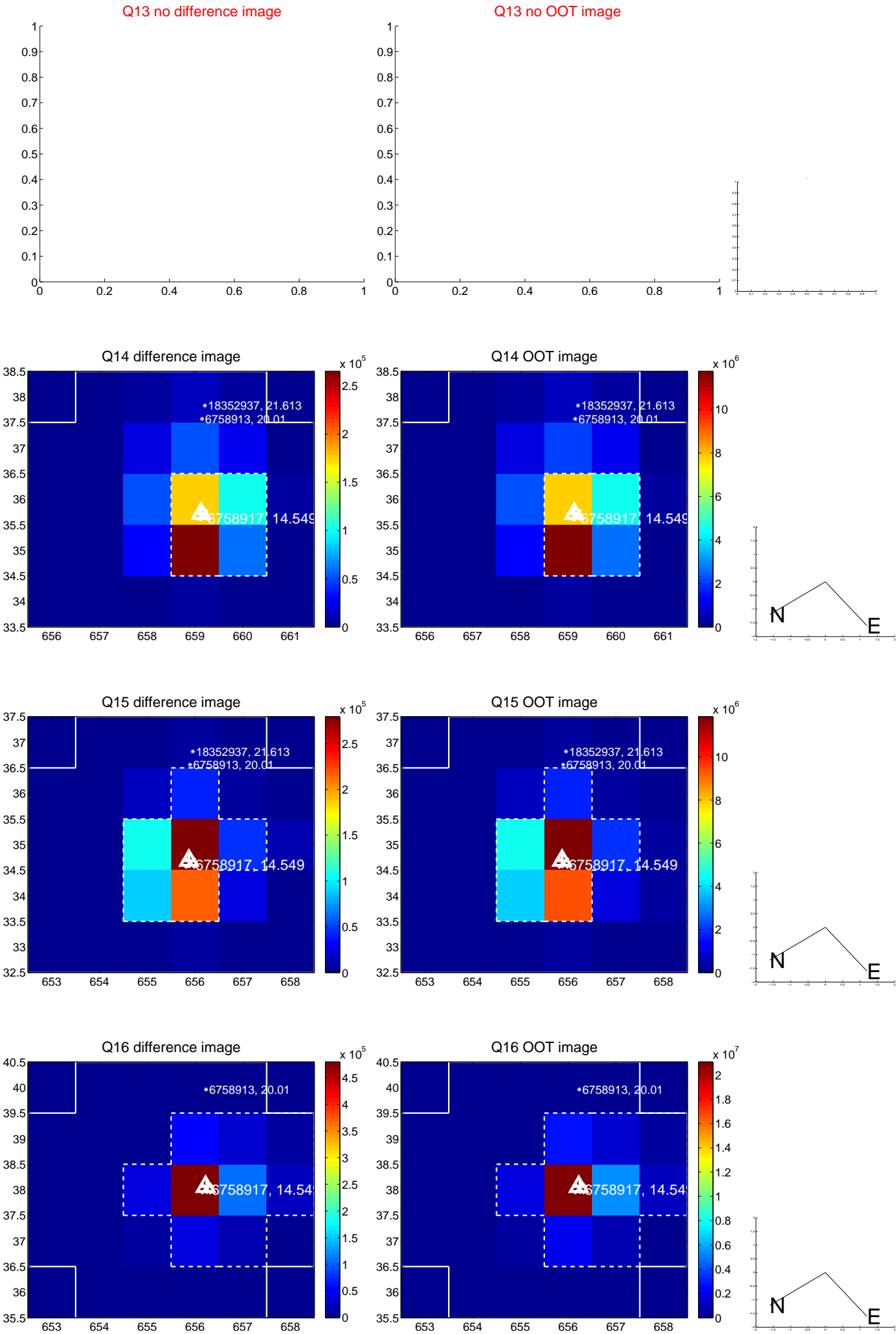
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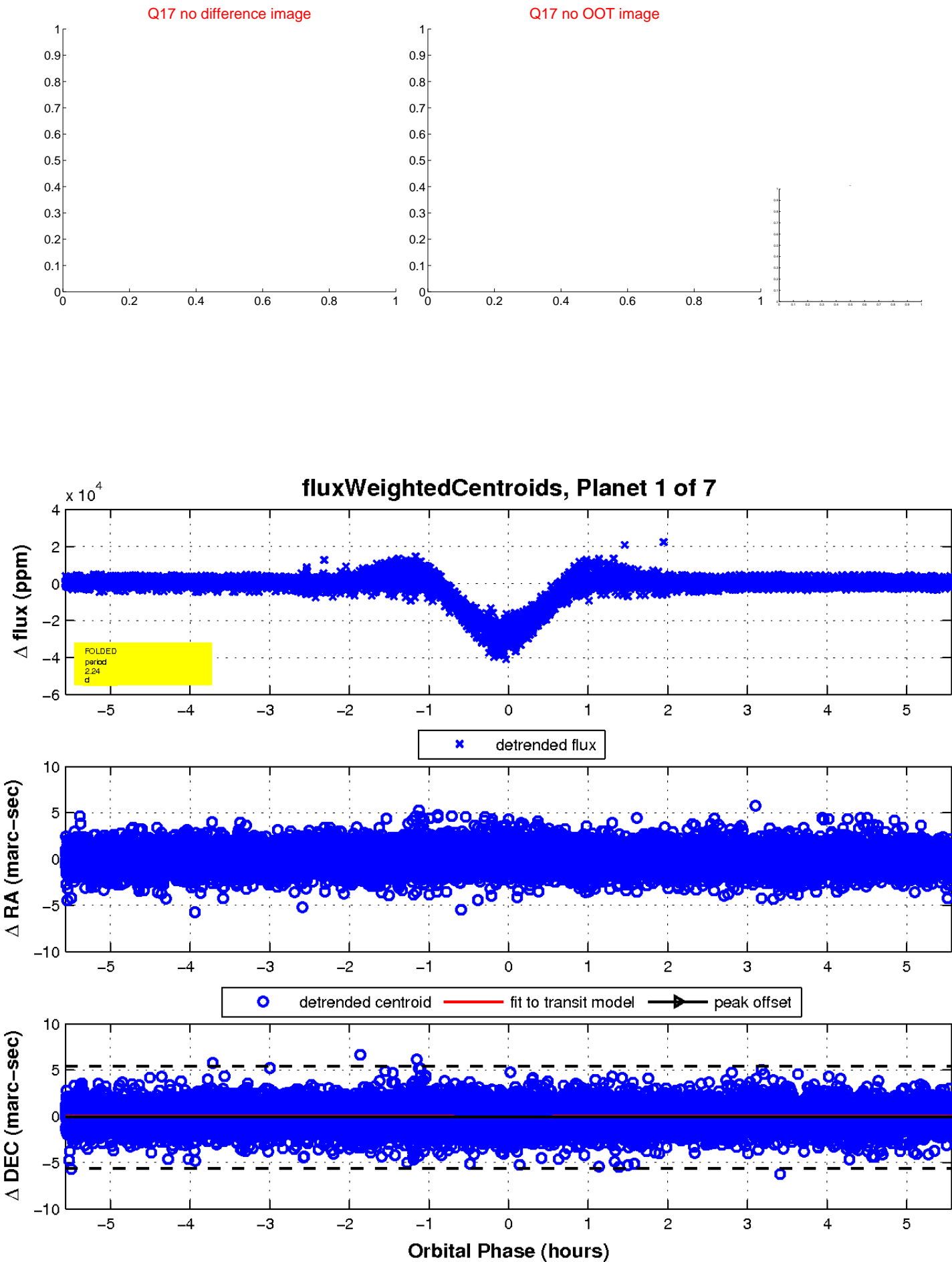
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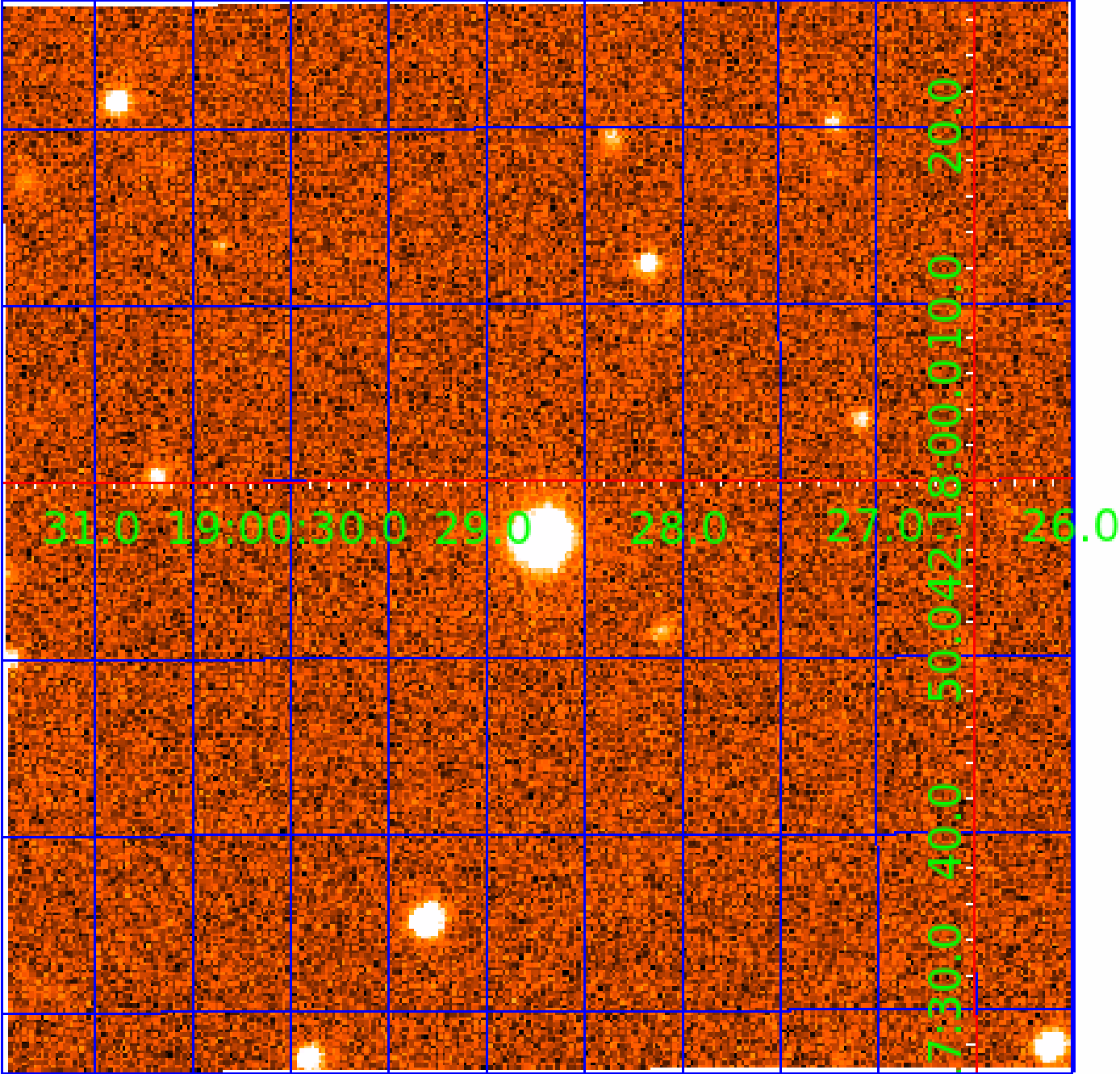


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

Q1-17 DR25 TCE Parameters

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006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

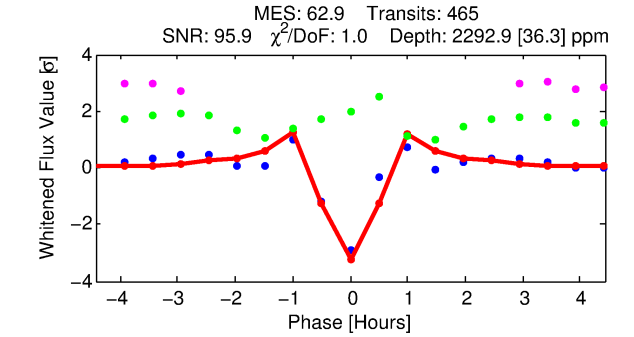
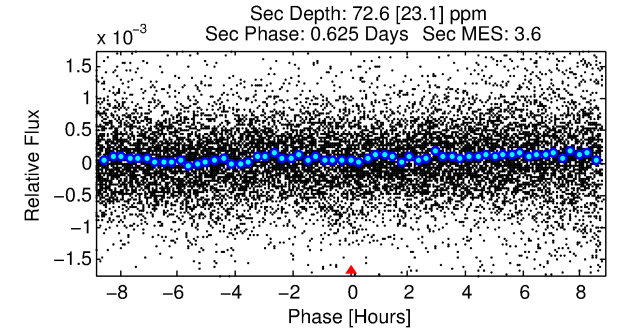
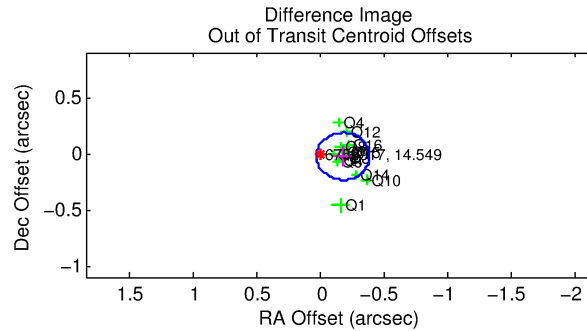
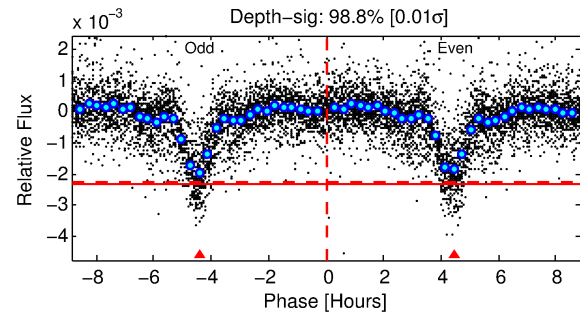
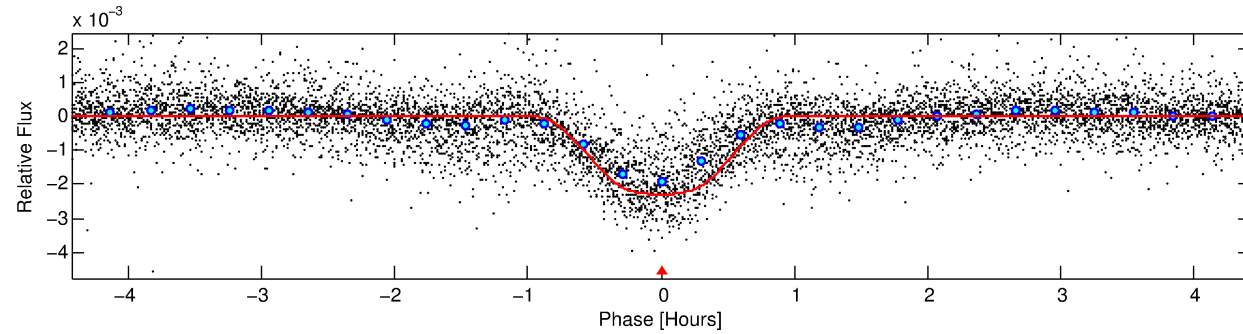
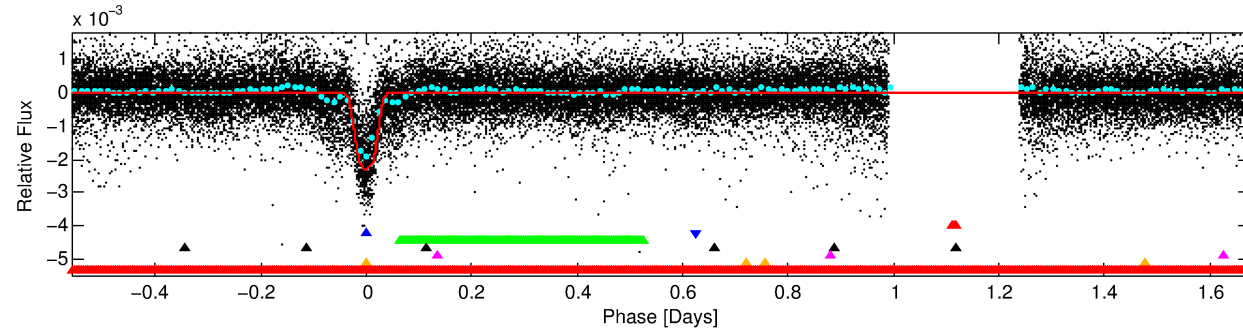
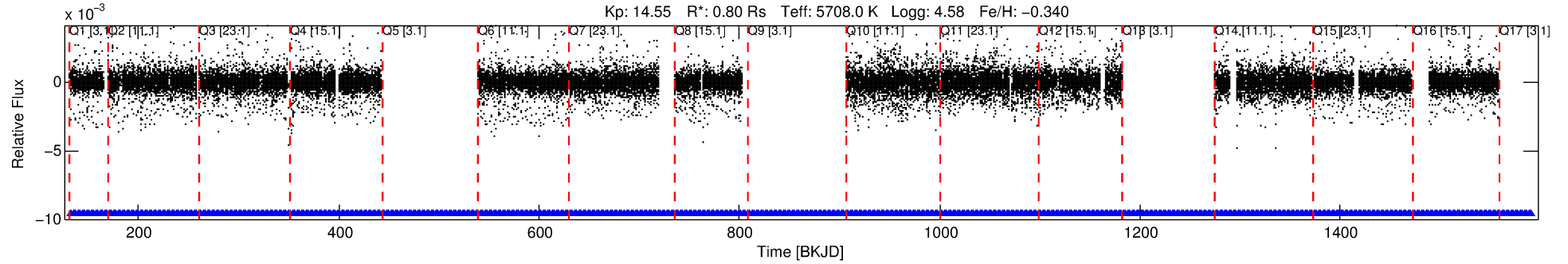
Ephemeris Match Information For 006758917-02

No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 2 of 7 Period: 2.236 d

KOI: K00453 Corr: No Ephemeris Match



DV Fit Results:

Period = 2.23612 [0.00000] d
Epoch = 132.7506 [0.0002] BKJD
Rp/R* = 0.0525 [0.0010]
a/R* = 6.38 [0.42]
b = 0.90 [0.01]
Seff = 587.60 [193.36]
Teq = 1255 [103] K
Rp = 4.55 [1.19] Re
a = 0.0320 [0.0069] AU
Ag = 1.97 [0.88] [1.10σ]
Teffp = 2300 [195] K [4.74σ]

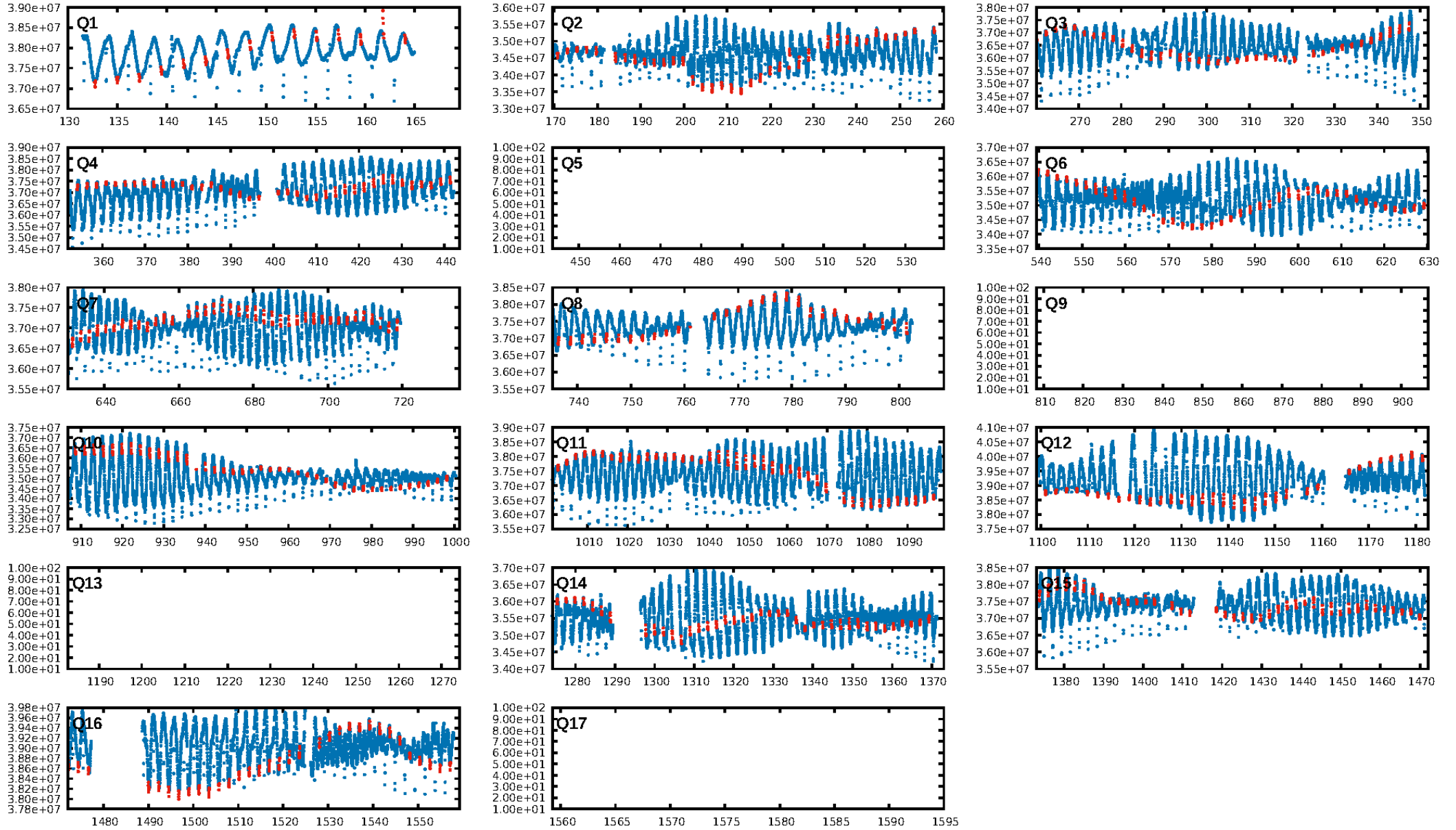
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [1935.34σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [450/450]
GhostDiagnostic-chr: 1.461
Centroid-sig: N/A
Centroid-so: 0.167 arcsec [3.13σ]
OotOffset-rm: 0.173 arcsec [2.48σ]
KicOffset-rm: 0.337 arcsec [4.73σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 1.00 [13/13]
DiffImageOverlap-fno: 0.00 [0/13]

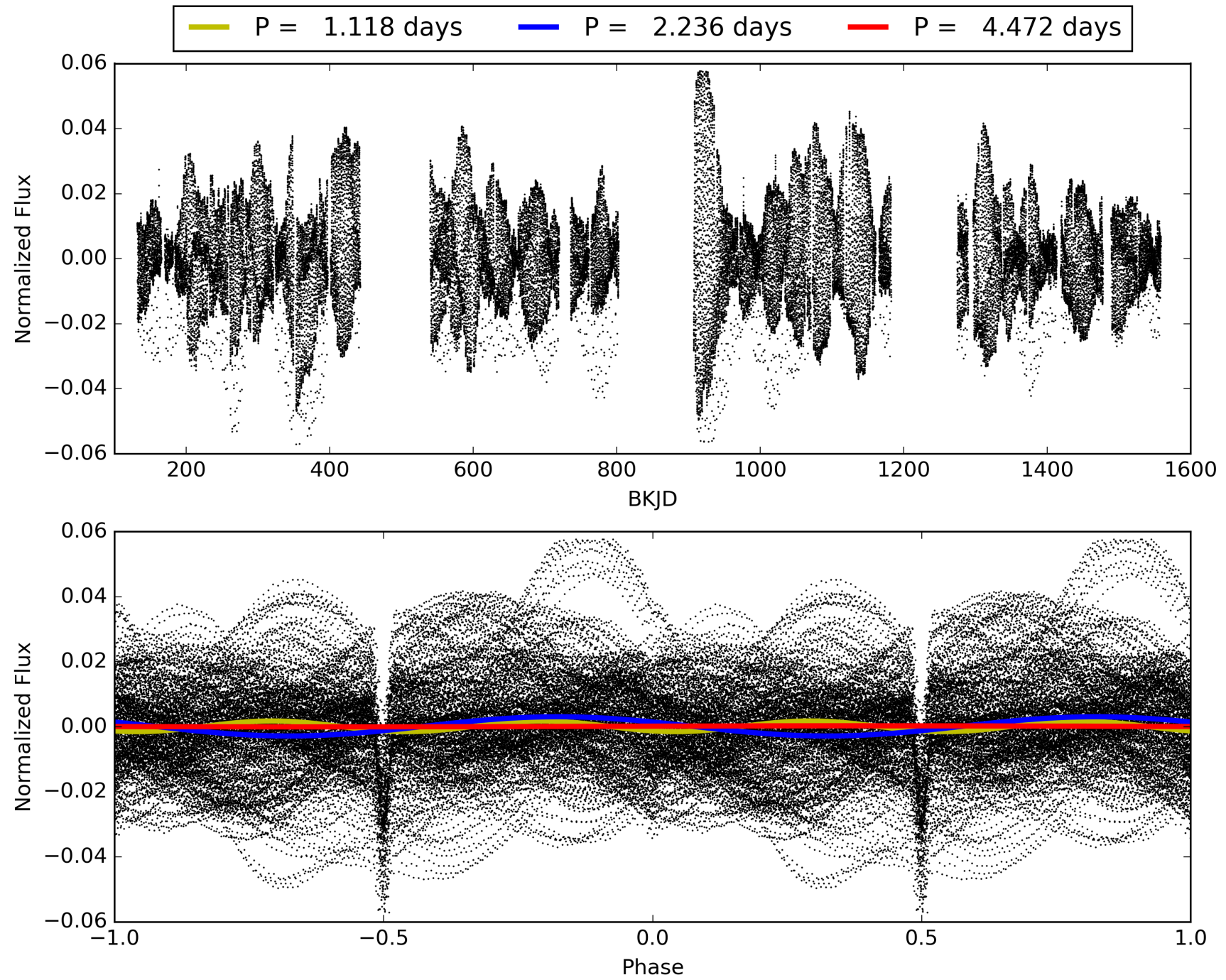
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TCE 006758917-02, PDC Light Curves

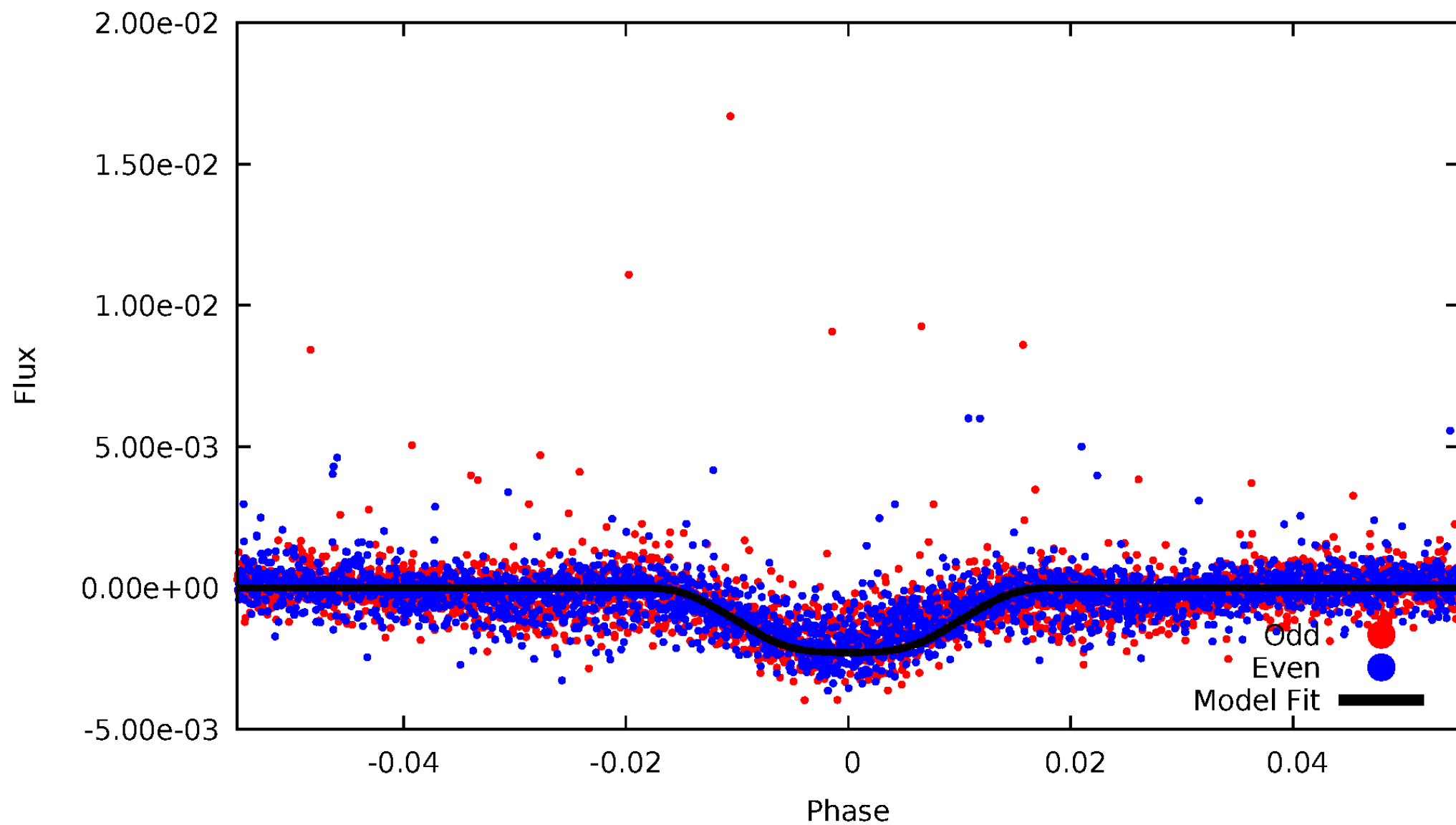


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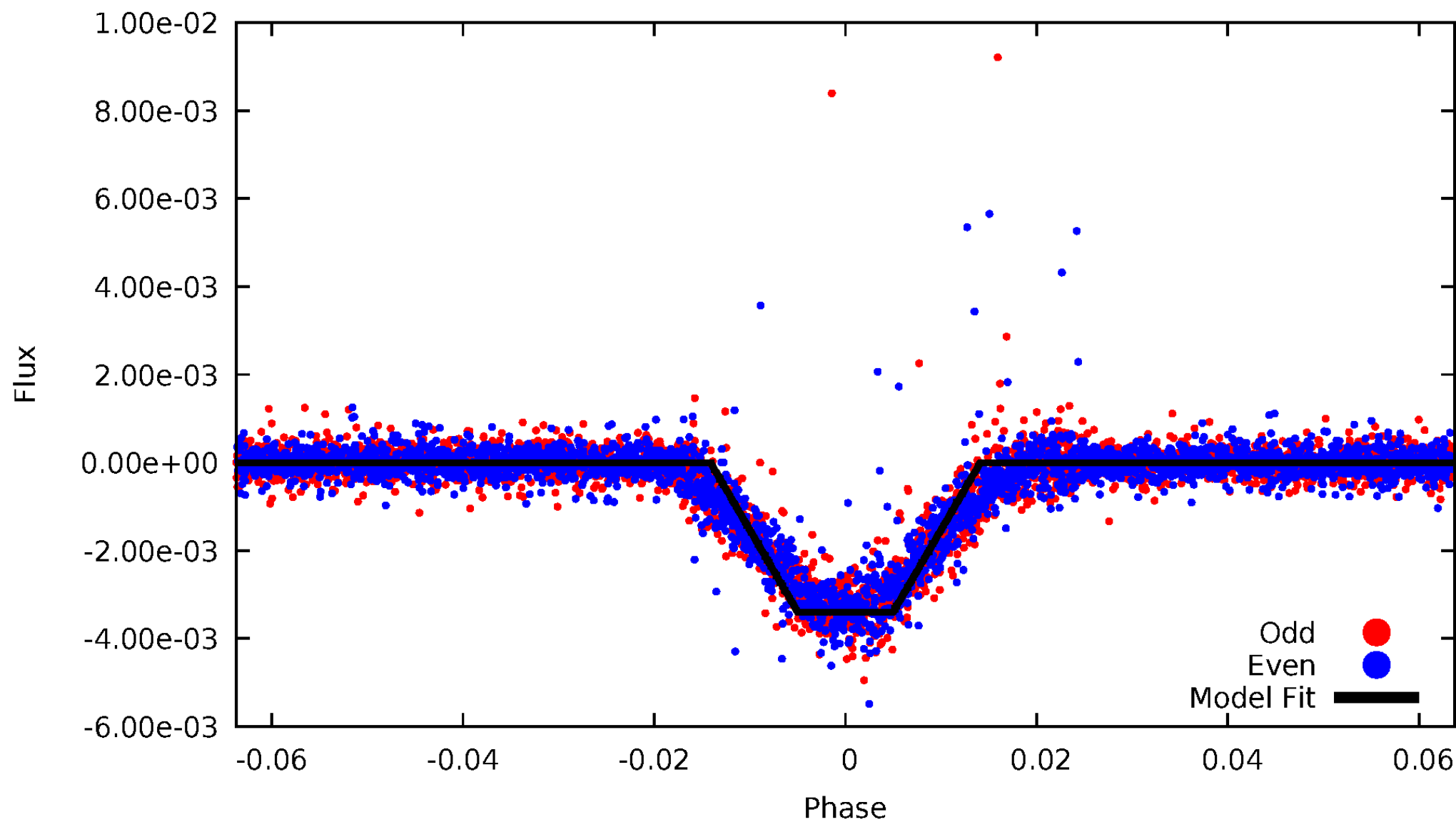
DV Odd/Even

TCE 006758917-02



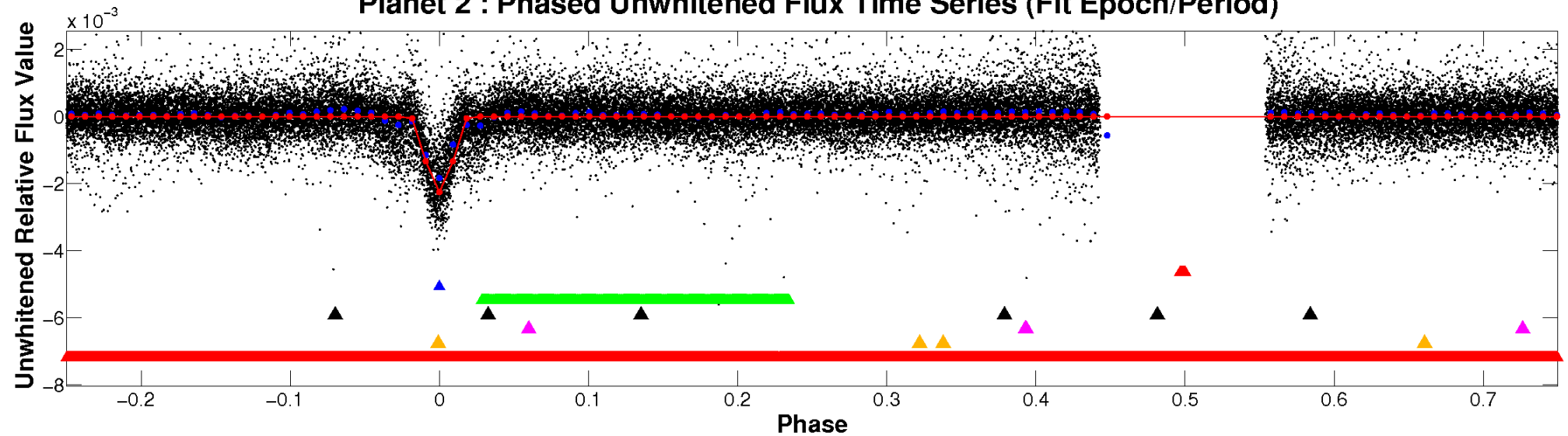
ALT Odd/Even

TCE 006758917-02

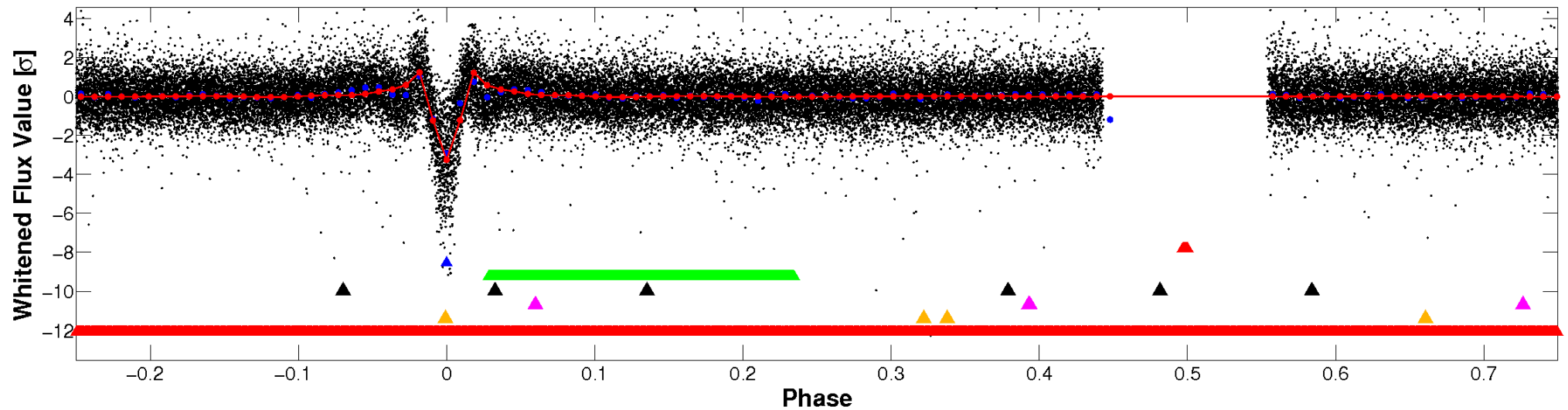


Non-Whitened Vs. Whitened Light Curve

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

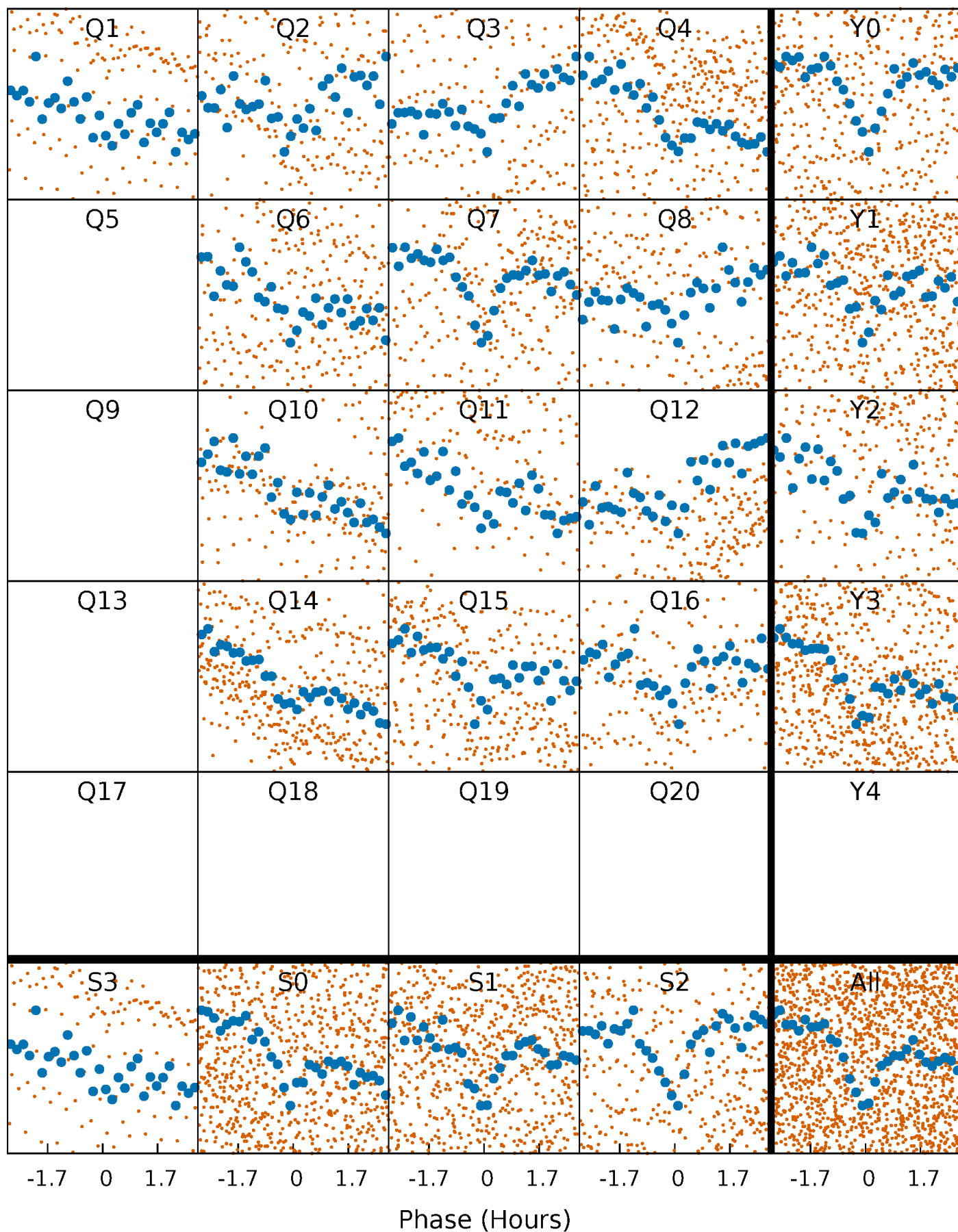


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



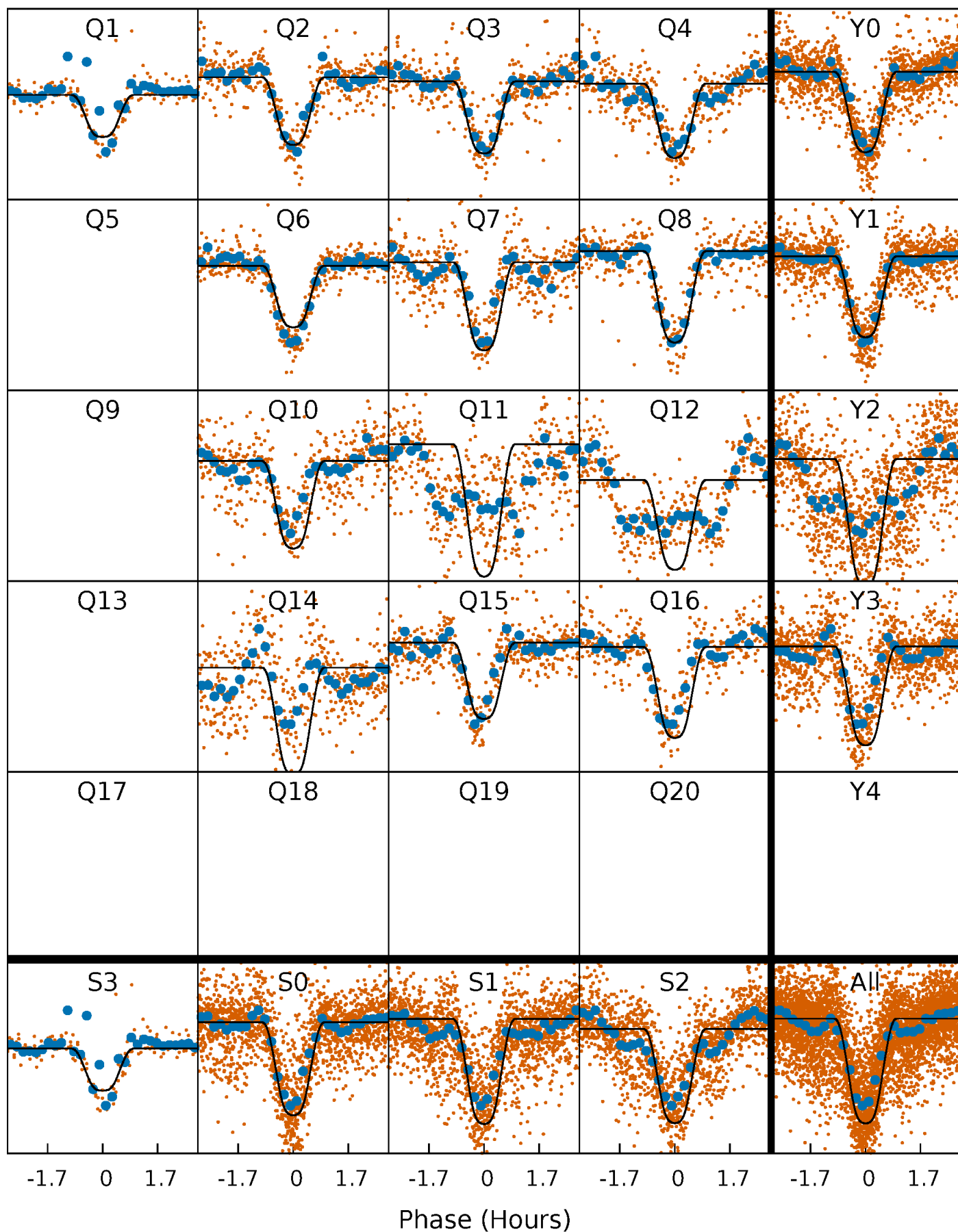
PDC Quarter-Phased Transit Curves

TCE 006758917-02 P= 2.236120 Days $T_0=132.750556$ (BKJD)



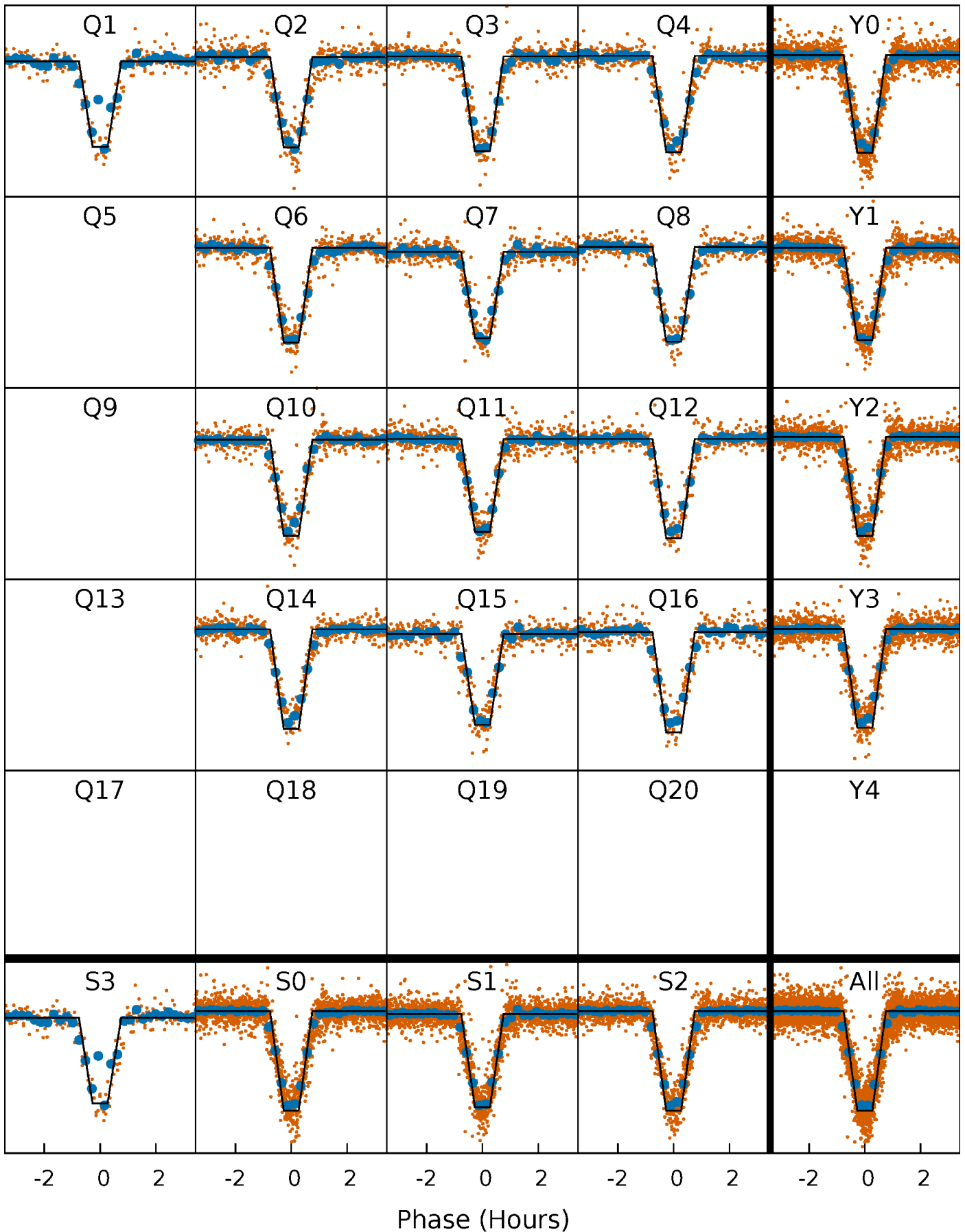
DV Quarter-Phased Transit Curves

TCE 006758917-02 P= 2.236120 Days $T_0=132.750556$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

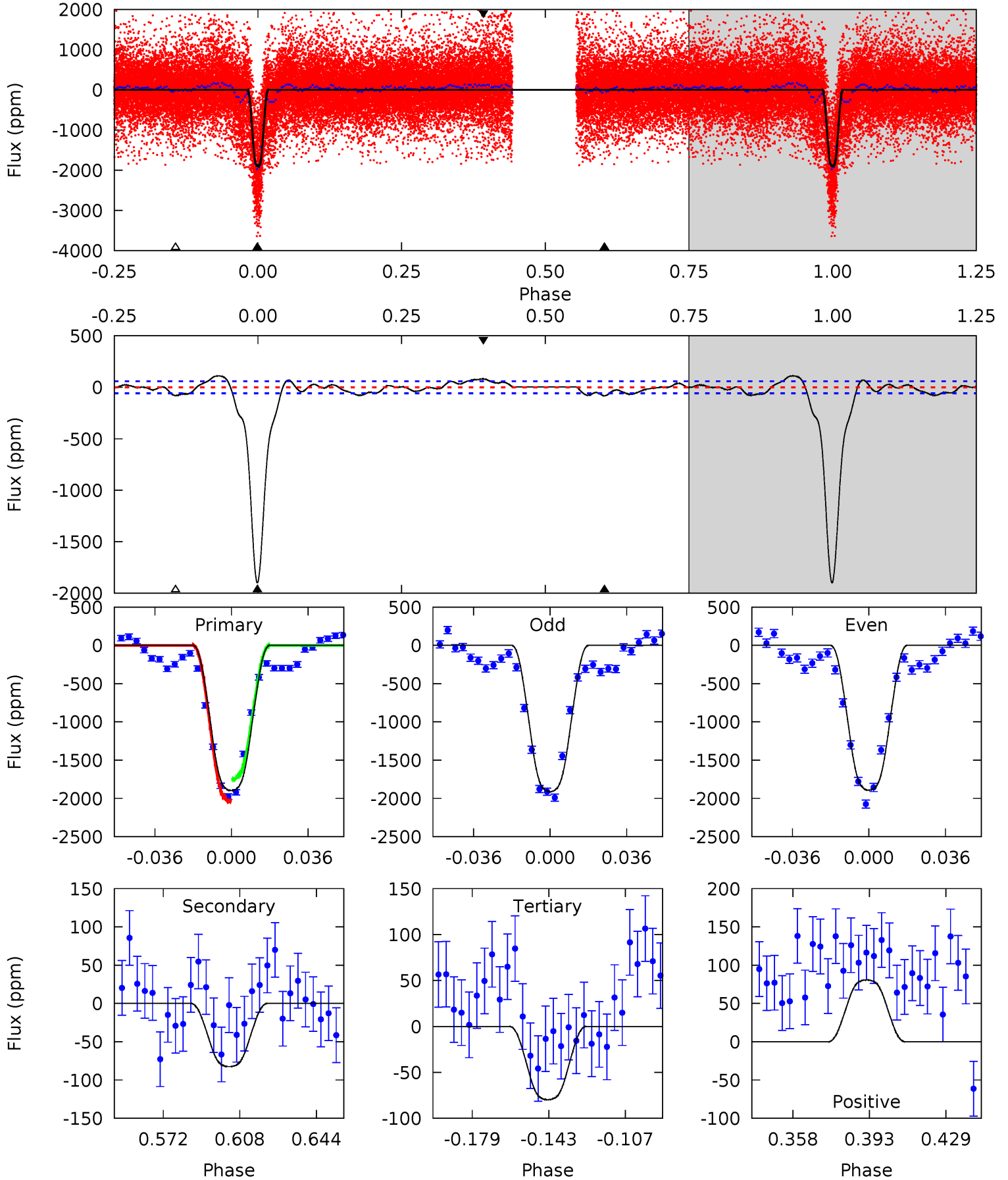
TCE 006758917-02 P= 2.236107 Days $T_0=132.750603$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-02, P = 2.236120 Days, E = 130.514436 Days

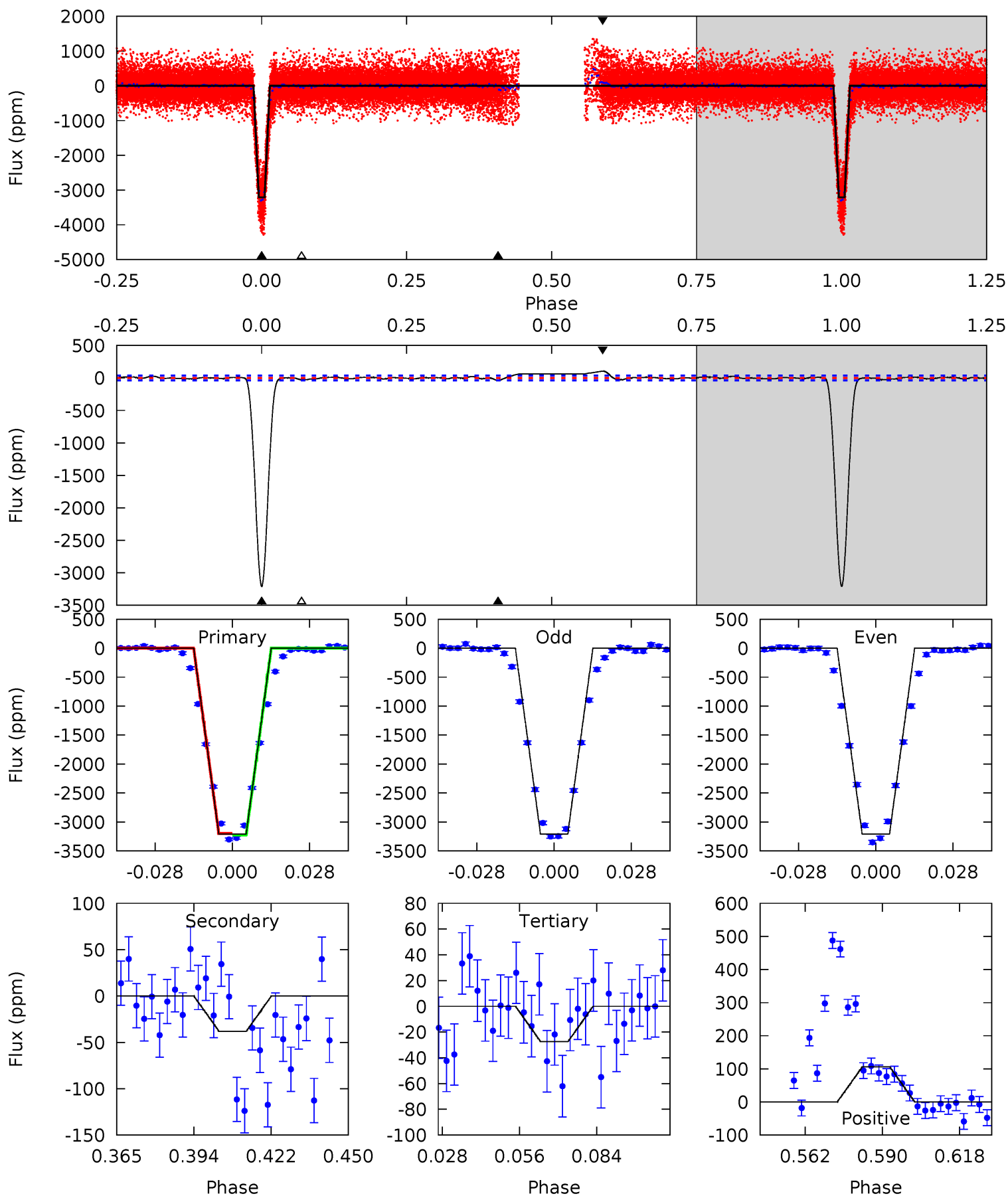
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
155.0	6.74	6.51	6.59	4.78	2.10	3.84	148.5	148.5	0.23	0.15	0.79	0.94	0.05	12.0



Alt Model-Shift Uniqueness Test

006758917-02, P = 2.236107 Days, E = 130.514496 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
412.9	4.89	3.53	13.7	4.82	2.20	2.07	409.4	399.2	1.36	-8.77	0.02	0.99	0.03	1.84



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-83 ± 12	$4.70^{+0.60}_{-0.35}$	1790^{+98}_{-72}	2960^{+84}_{-87}	$2.036^{+0.451}_{-0.440}$
Alt.	-38 ± 8	$5.27^{+0.71}_{-0.40}$	1796^{+104}_{-74}	2484^{+101}_{-137}	$0.744^{+0.200}_{-0.195}$

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

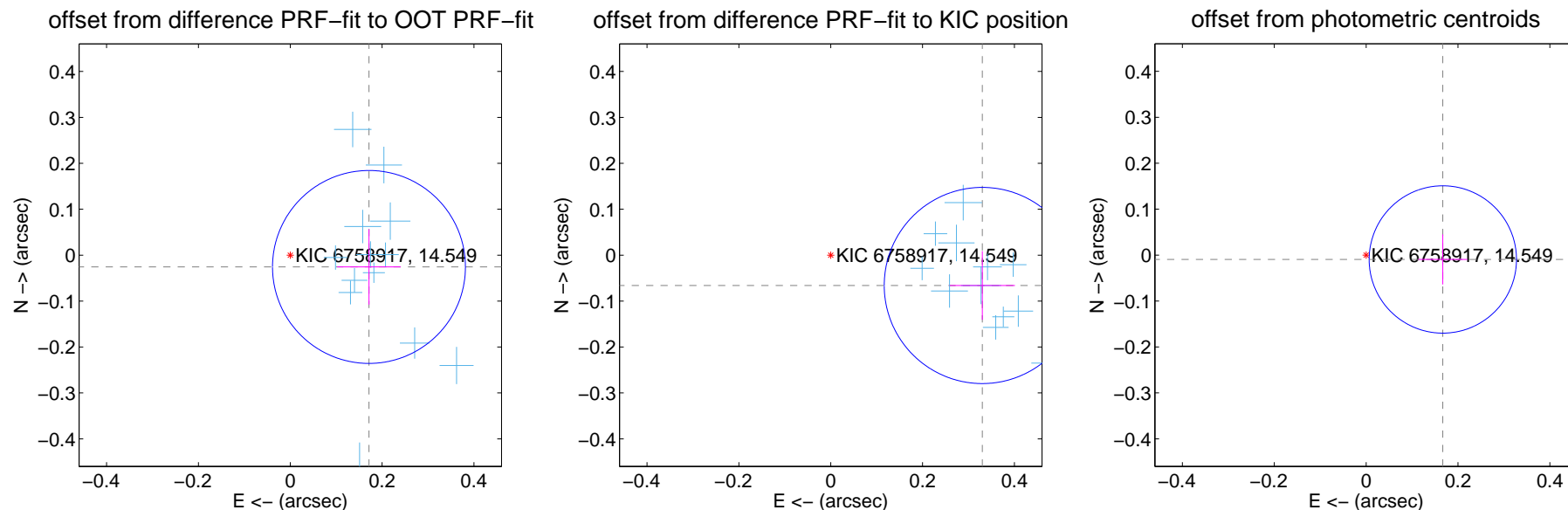
DV Centroid Data

Supplemental centroid analysis for 006758917-02. Kepler magnitude: 14.55. Transit SNR 95.94

There are 13 quarters with good PRF difference image offsets

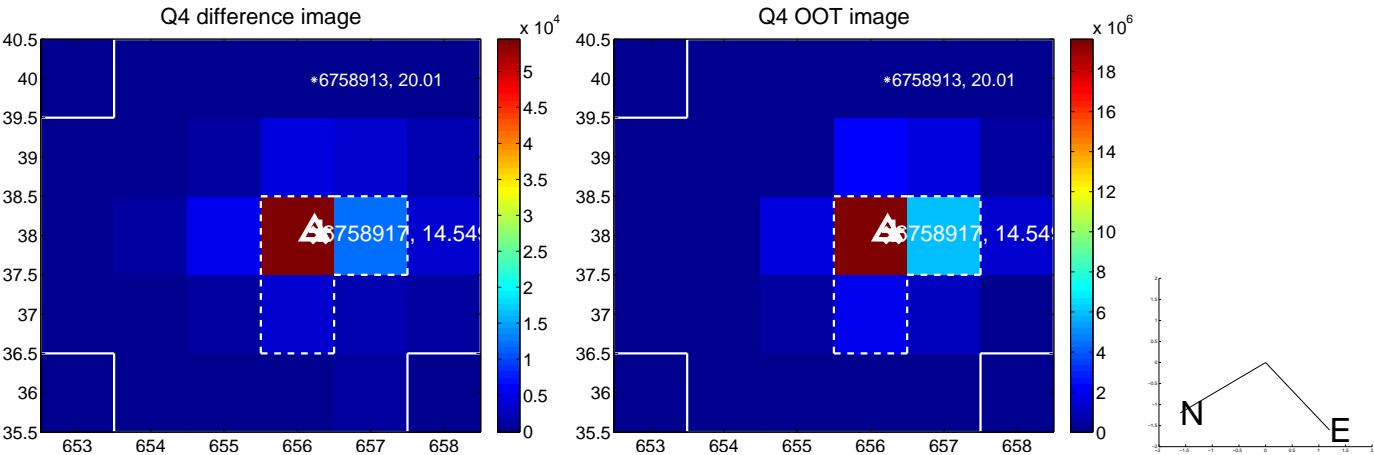
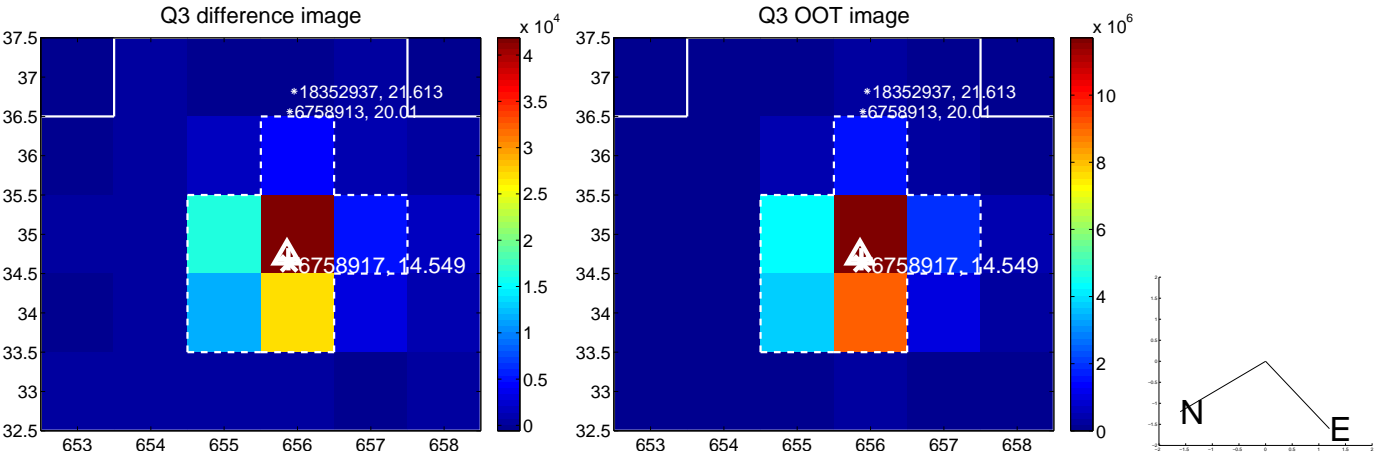
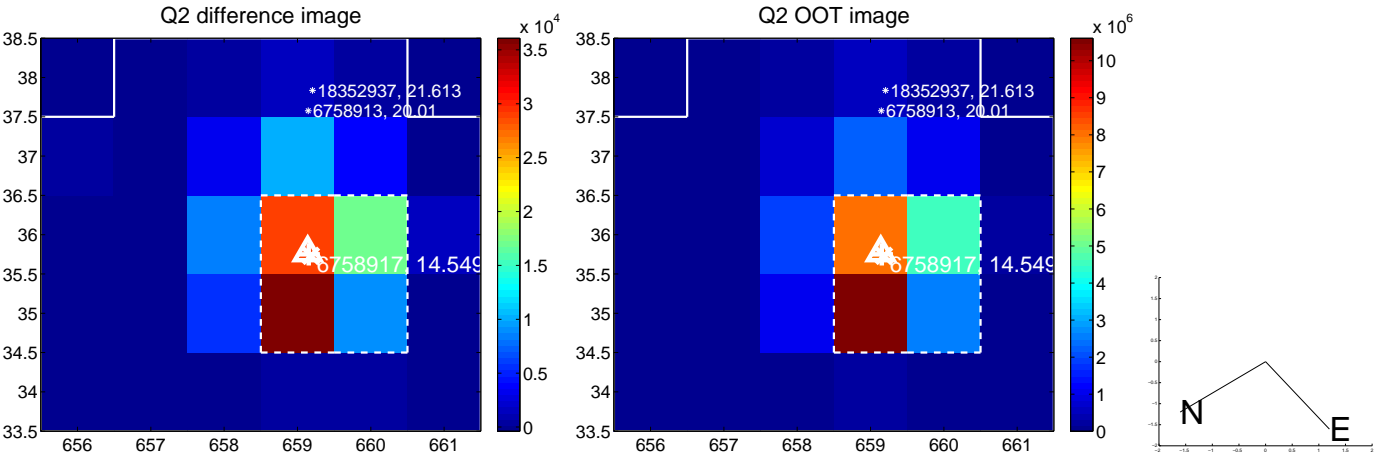
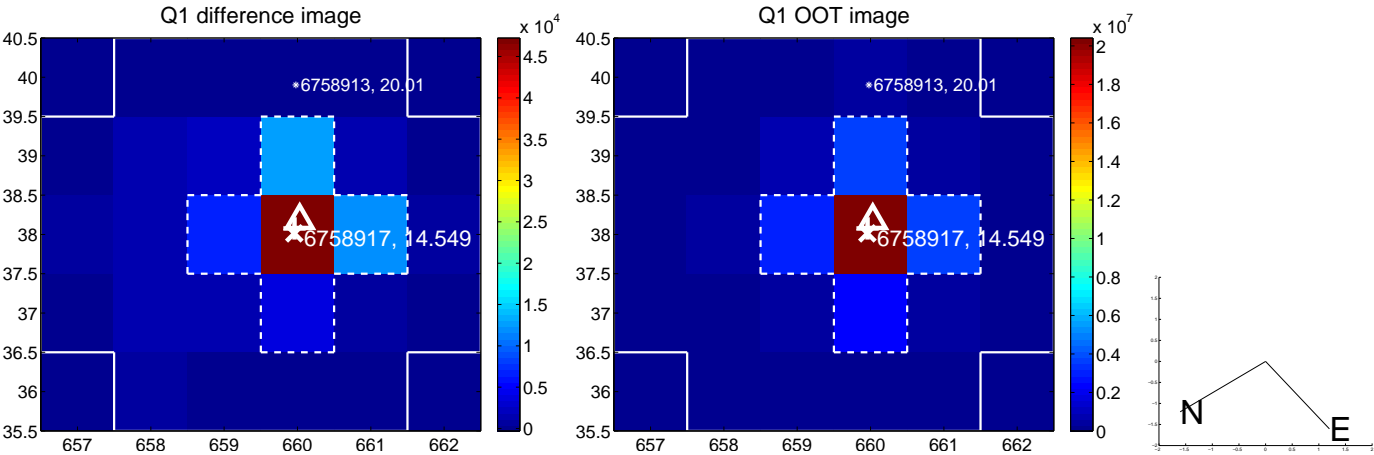
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.173 ± 0.070	2.48	-0.171 ± 0.069	-0.026 ± 0.082
PRF-fit source offset from KIC position	0.337 ± 0.071	4.73	-0.330 ± 0.071	-0.066 ± 0.075
photometric centroid source offset	0.17 ± 0.05	3.13	-0.17 ± 0.05	-0.01 ± 0.05

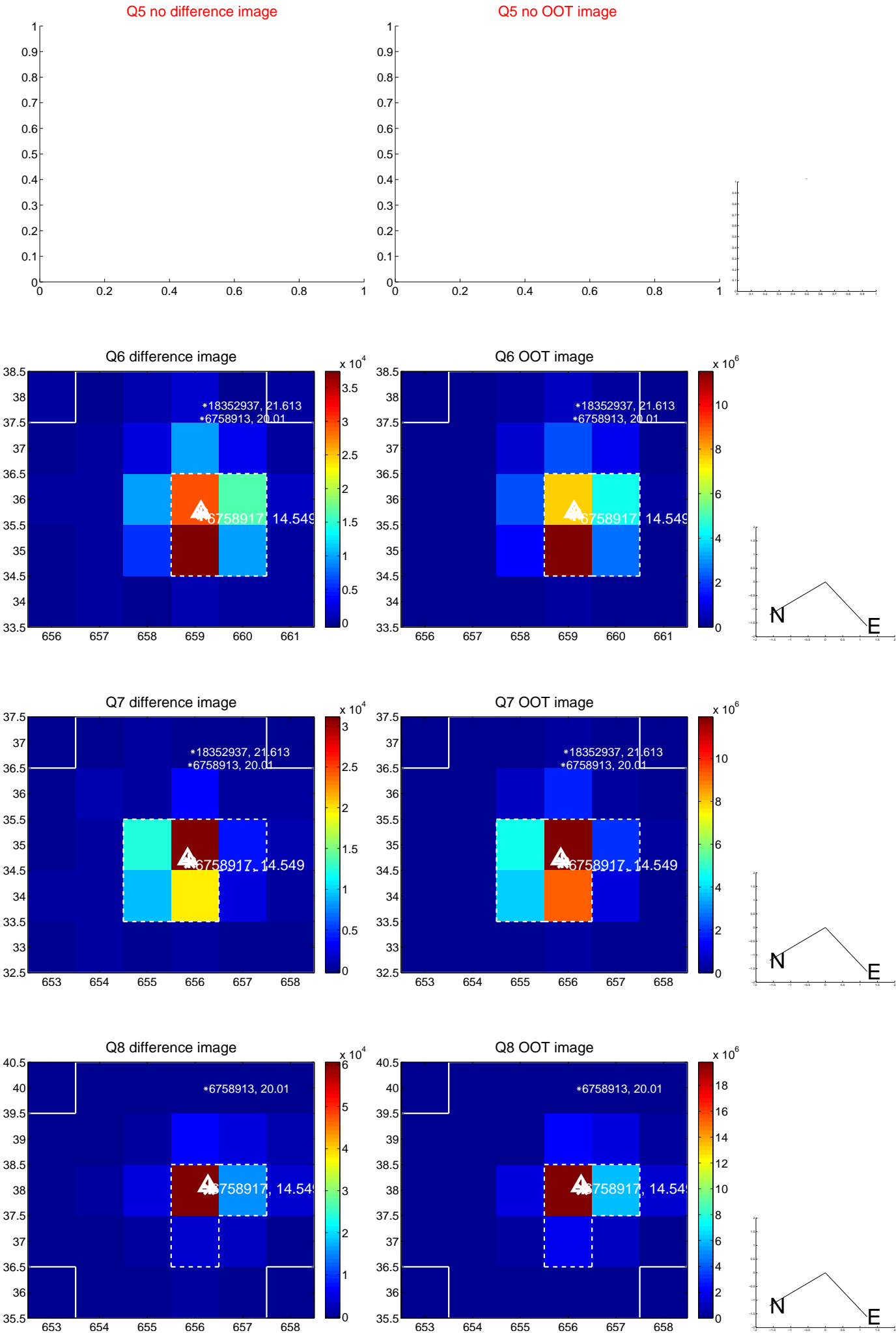


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

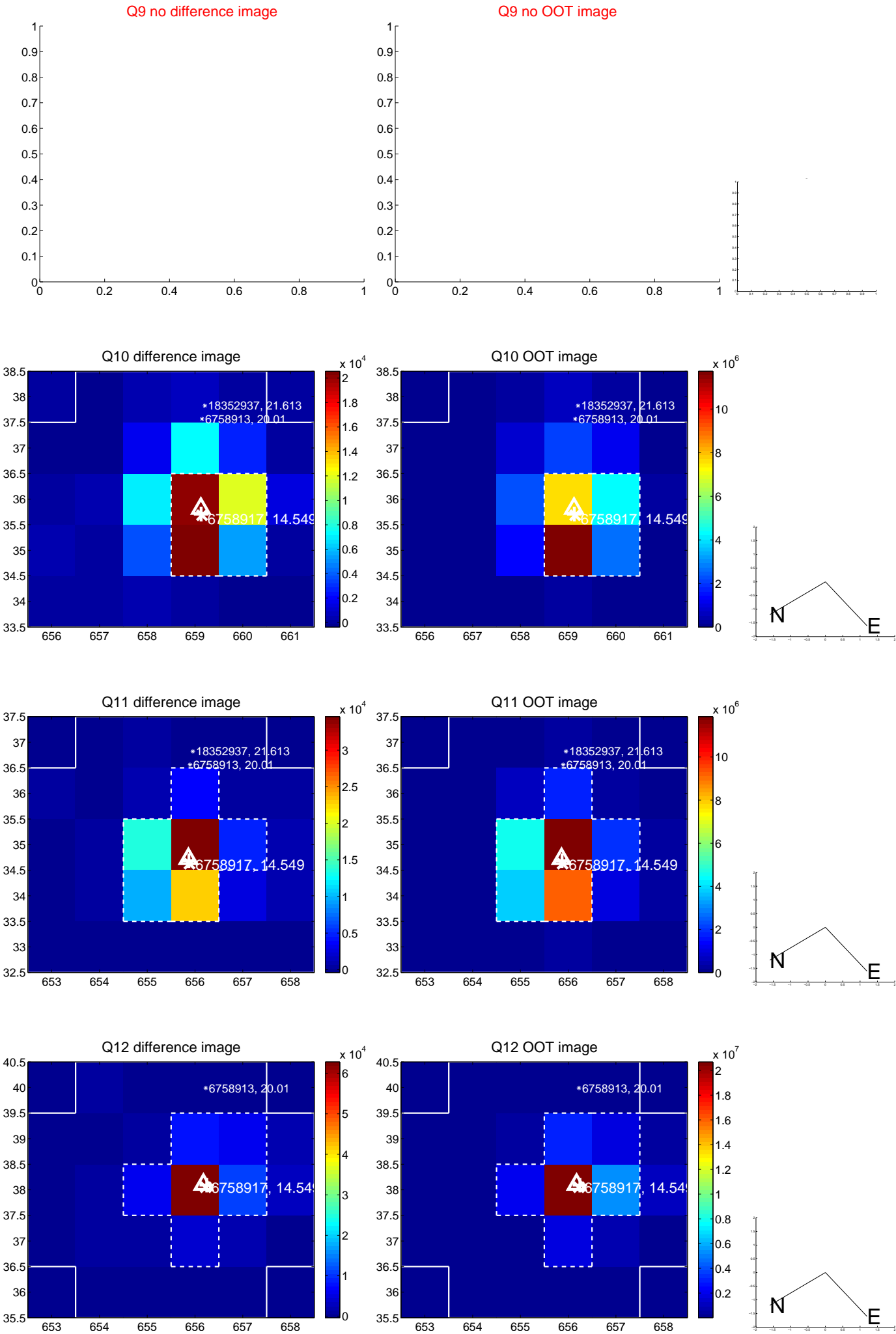
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



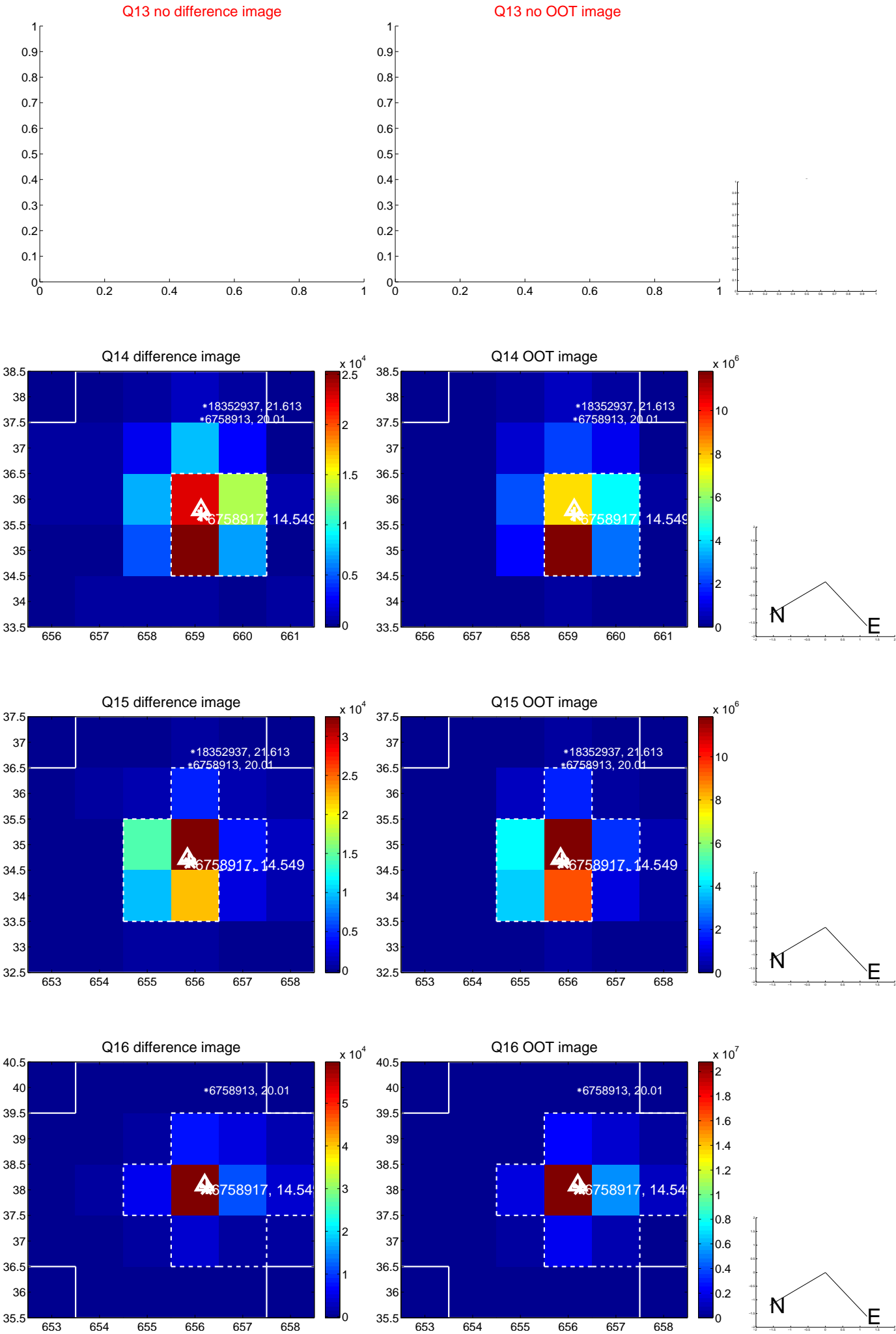
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



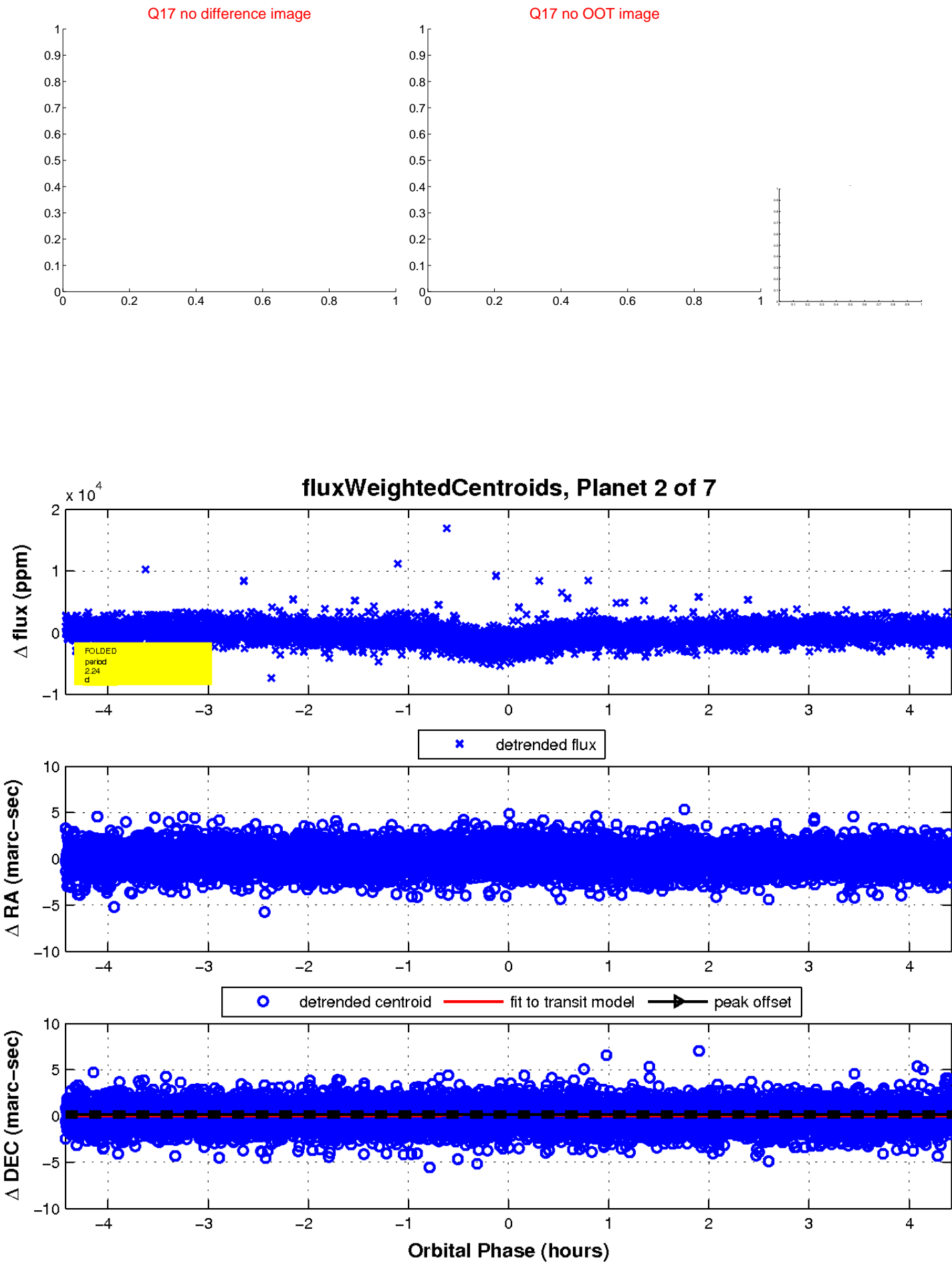
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

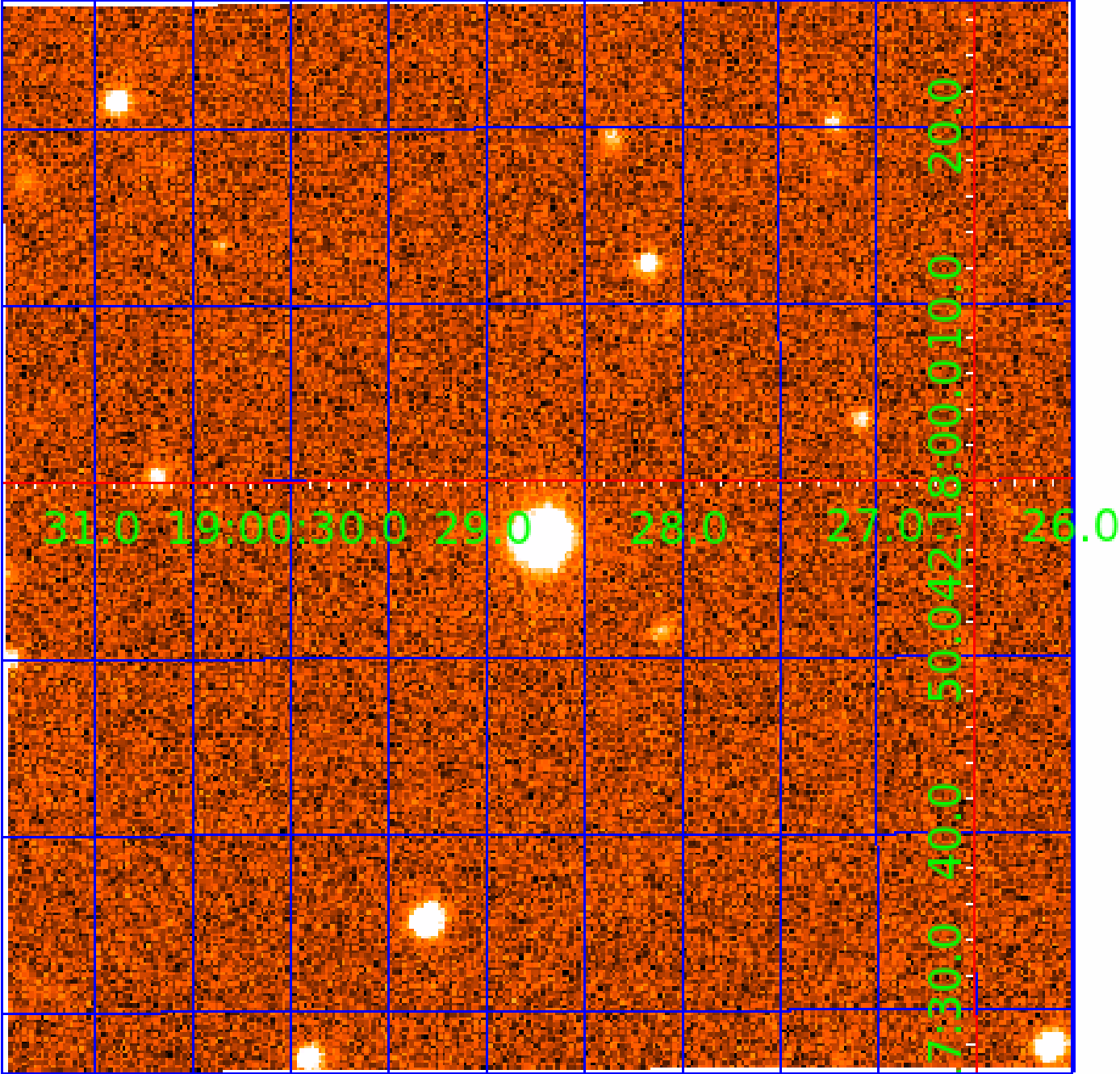


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS

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

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

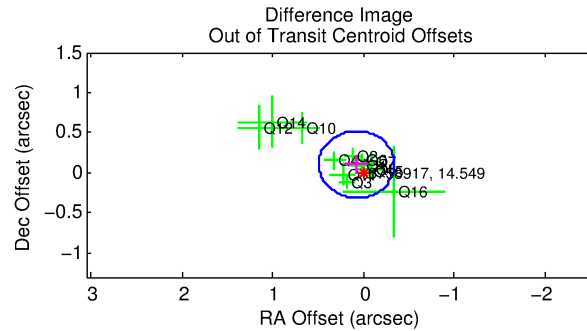
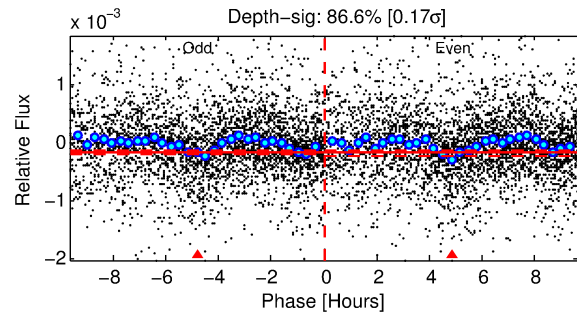
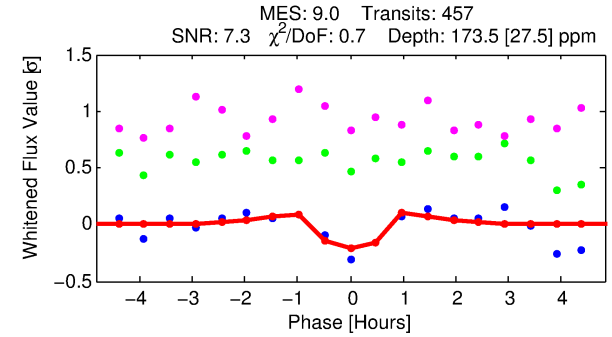
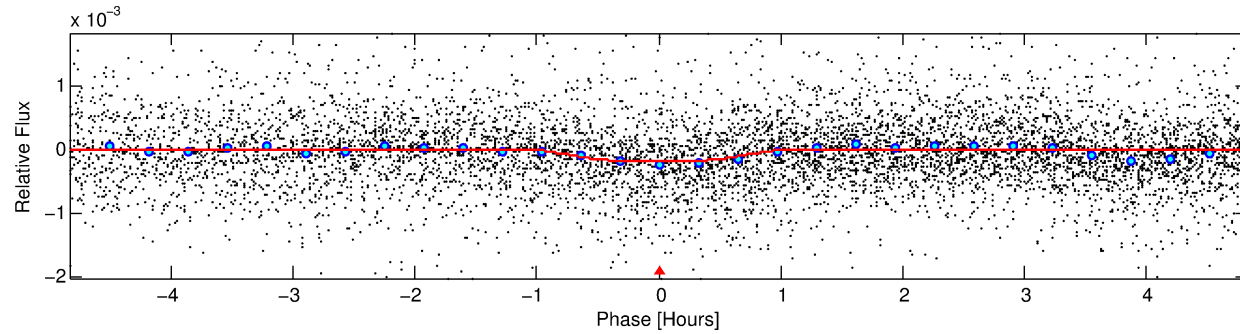
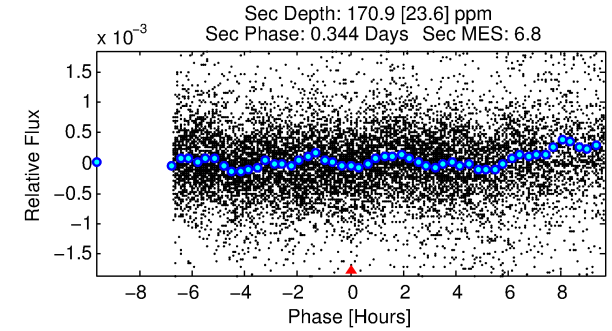
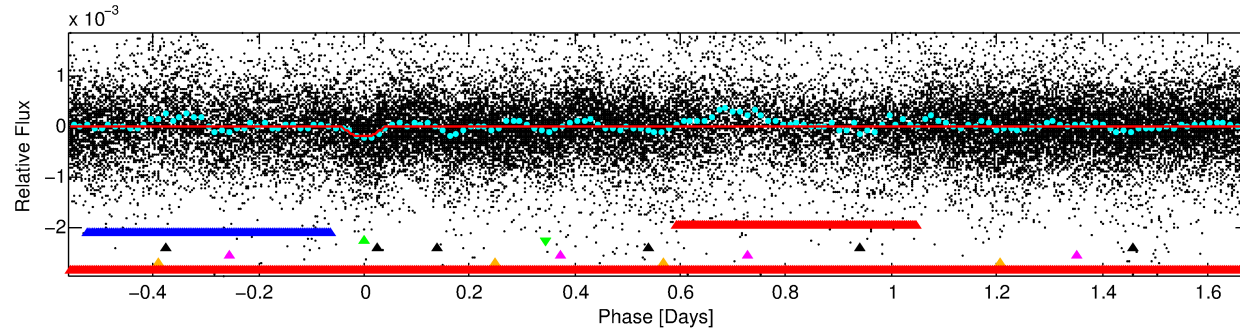
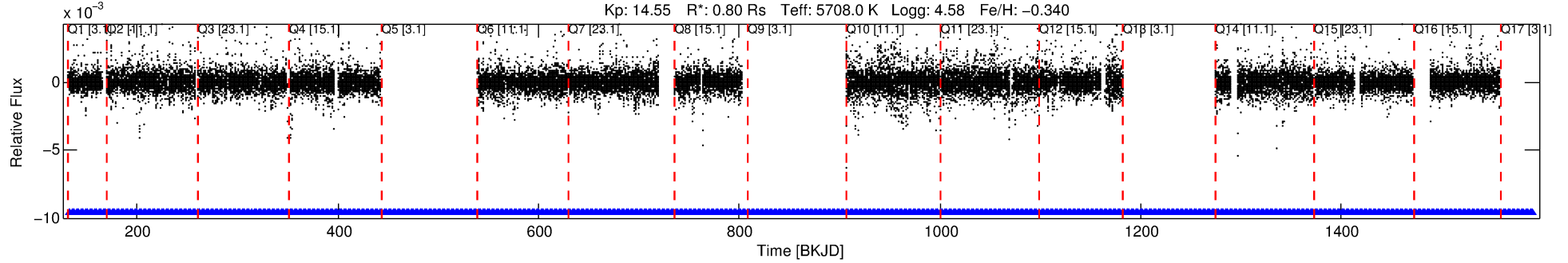
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006758917-03

No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 3 of 7 Period: 2.235 d
KOI: K00453 Corr: No Ephemeris Match



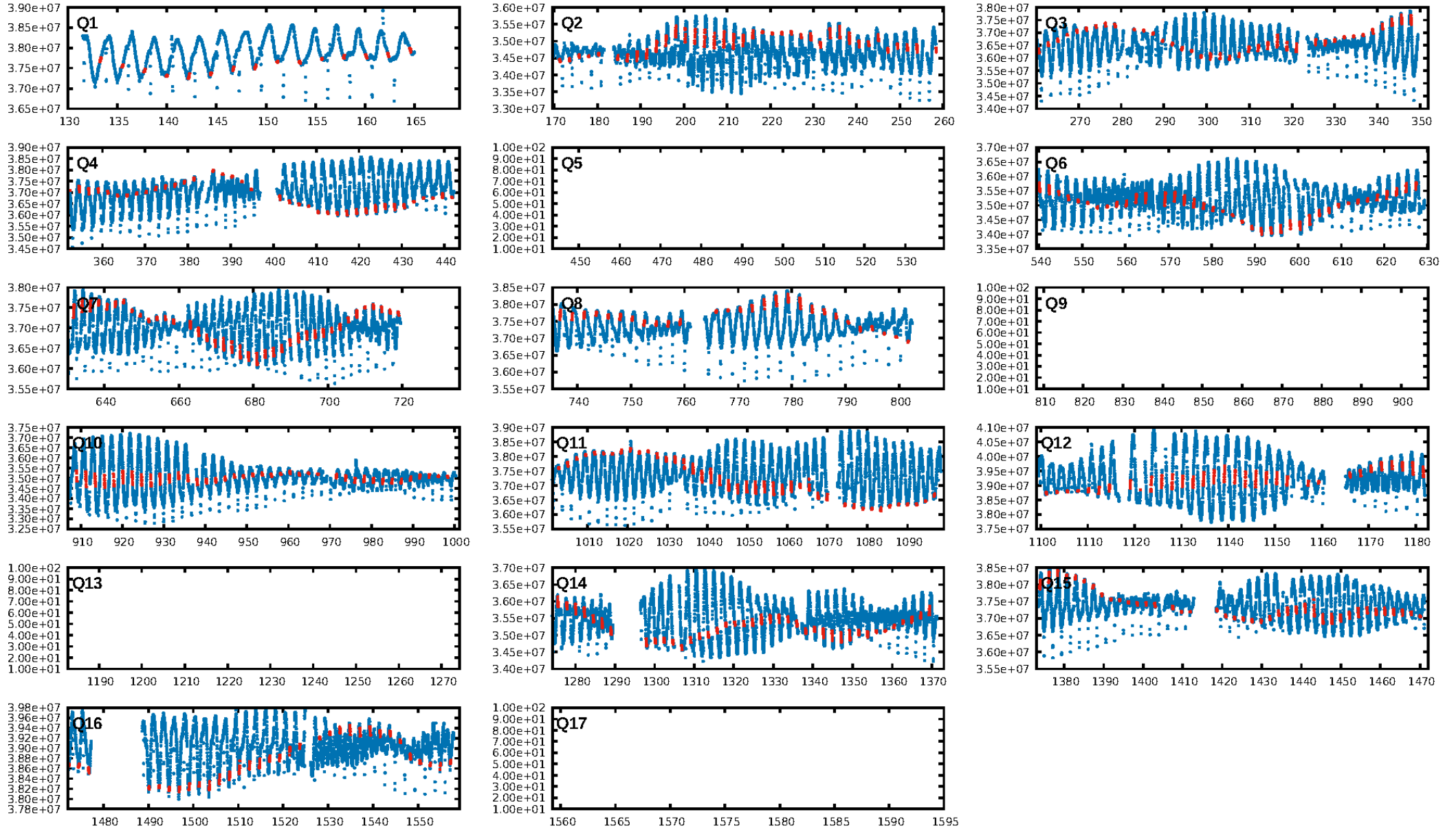
DV Fit Results:

Period = 2.23541 [0.00001] d
Epoch = 133.2750 [0.0021] BKJD
Rp/R* = 0.0144 [0.0084]
a/R* = 4.94 [13.32]
b = 0.90 [0.58]
Seff = 587.85 [193.44]
Teff = 1256 [103] K
Rp = 1.25 [0.80] Re
a = 0.0320 [0.0069] AU
Ag = 61.44 [74.78] [0.81σ]
Teffp = 5435 [1606] K [2.60σ]

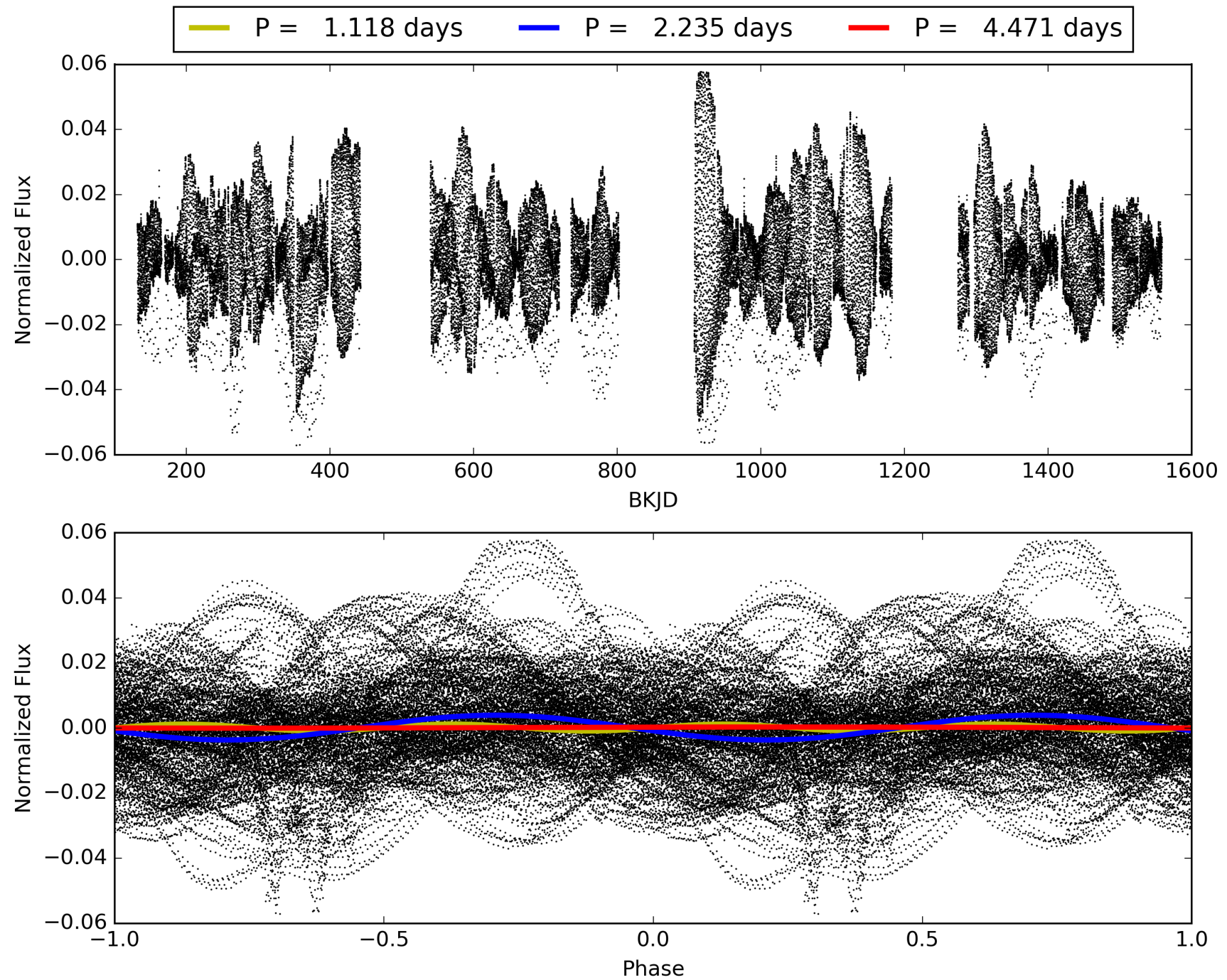
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [18.25σ]
LongPeriod-sig: 0.5% [0.01σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [442/442]
GhostDiagnostic-chr: -28.96
Centroid-sig: N/A
Centroid-so: 0.518 arcsec [0.83σ]
OotOffset-rm: 0.128 arcsec [0.92σ]
KicOffset-rm: 0.088 arcsec [0.89σ]
OotOffset-st: 4/4/4/1 [13]
KicOffset-st: 4/4/4/1 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 0.08 [1/13]

TCE 006758917-03, PDC Light Curves

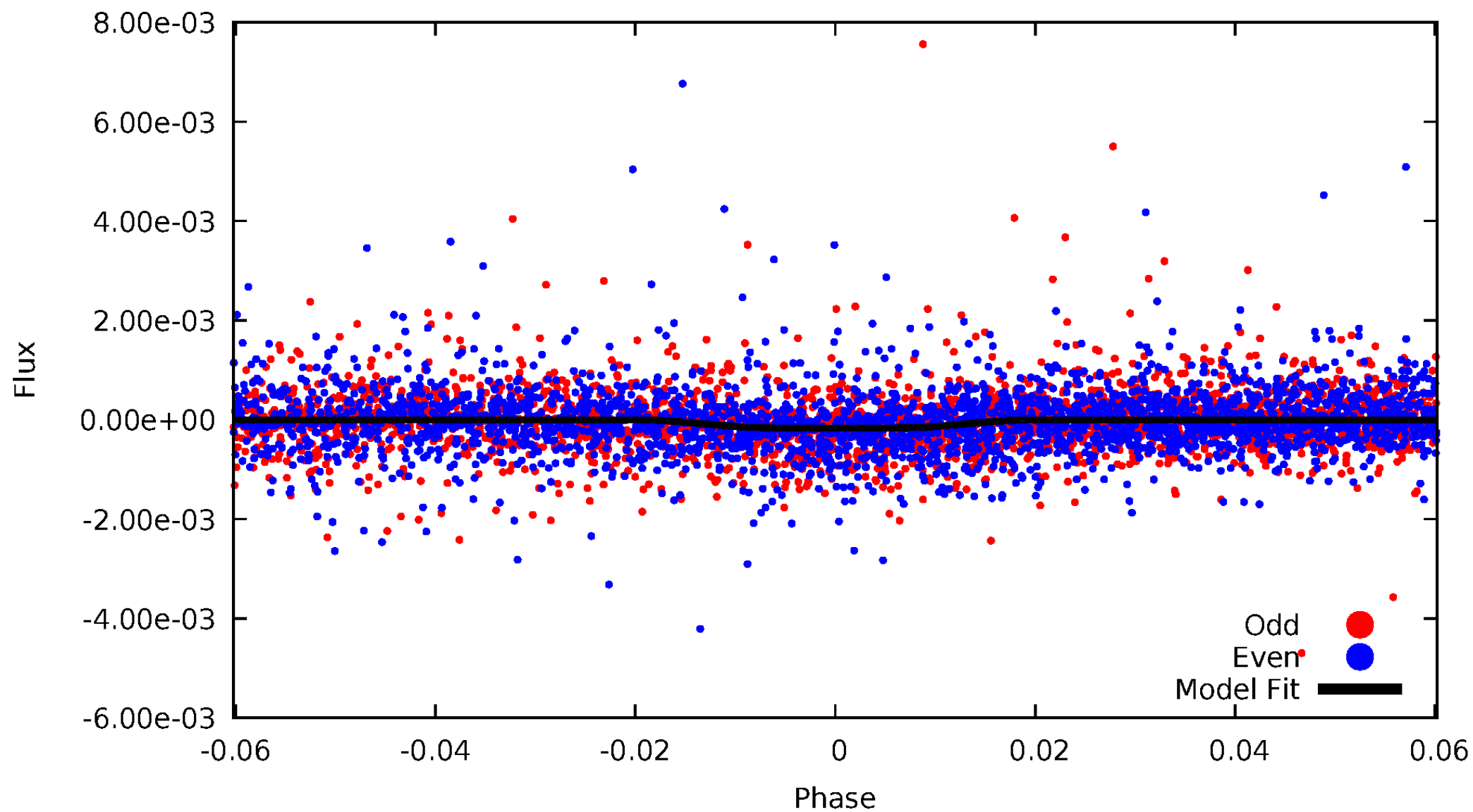


TCE 006758917-03



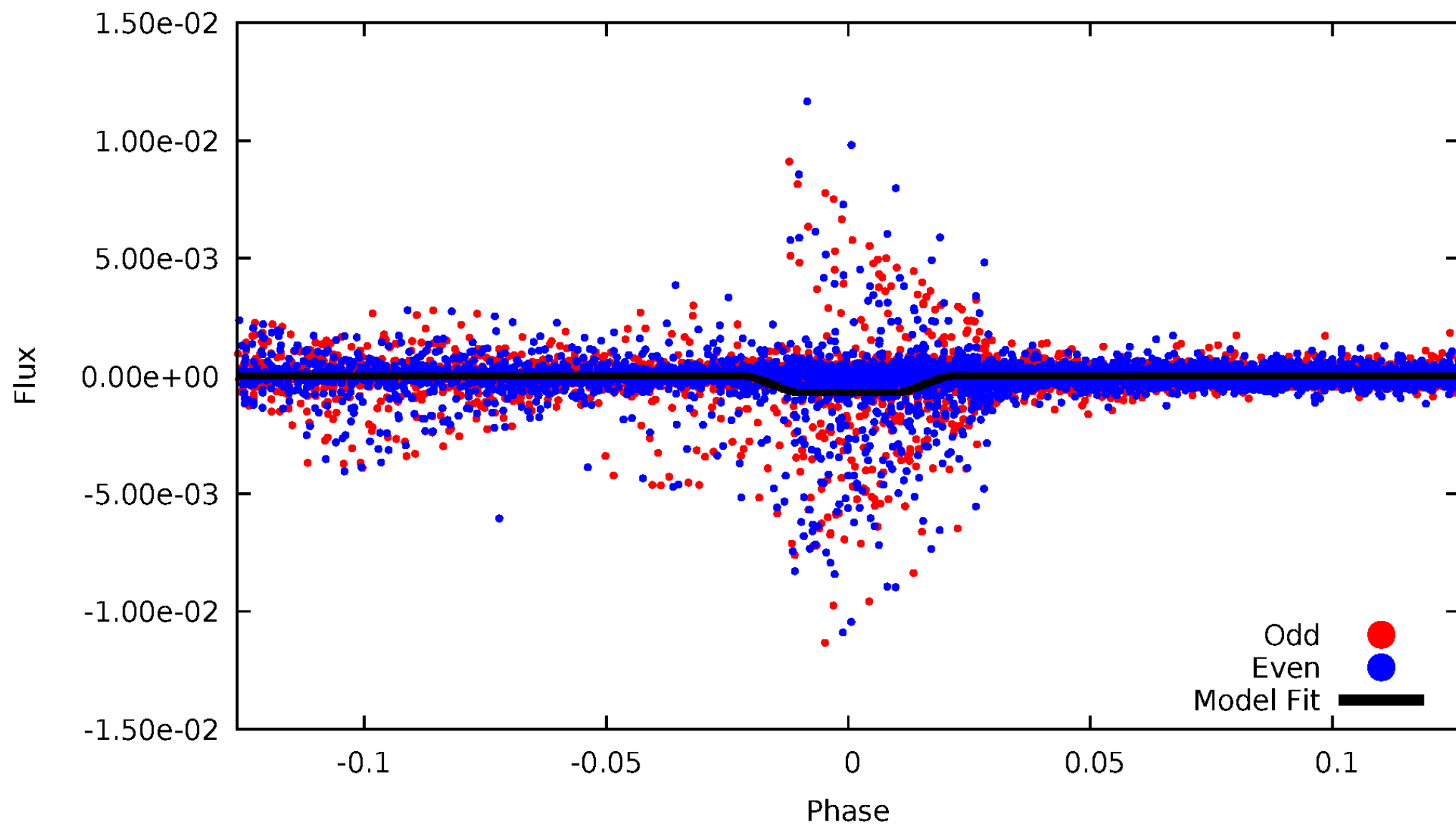
DV Odd/Even

TCE 006758917-03



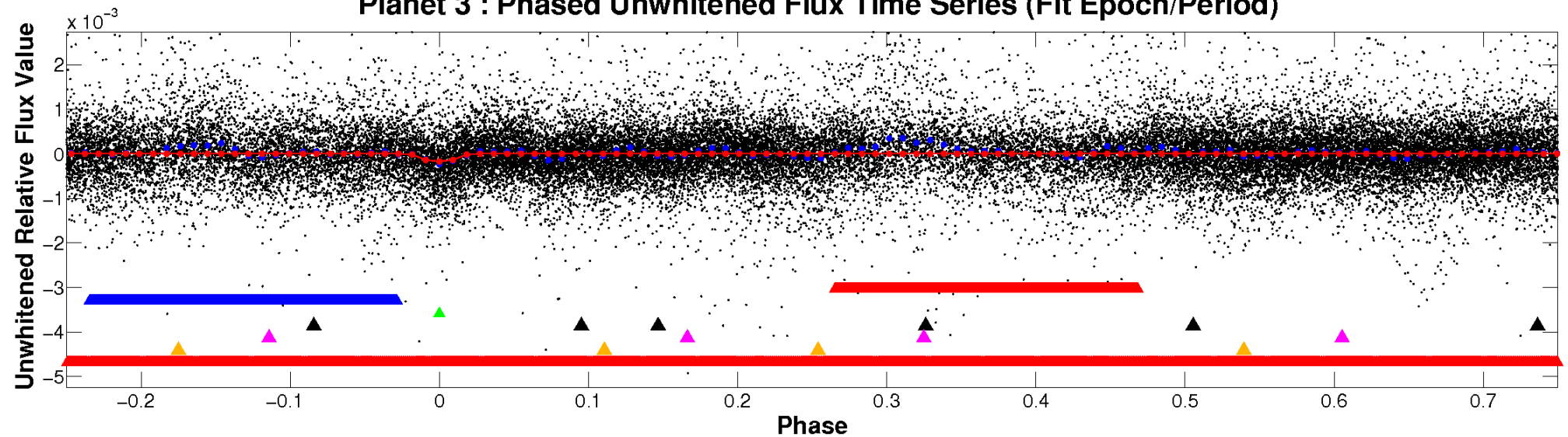
ALT Odd/Even

TCE 006758917-03

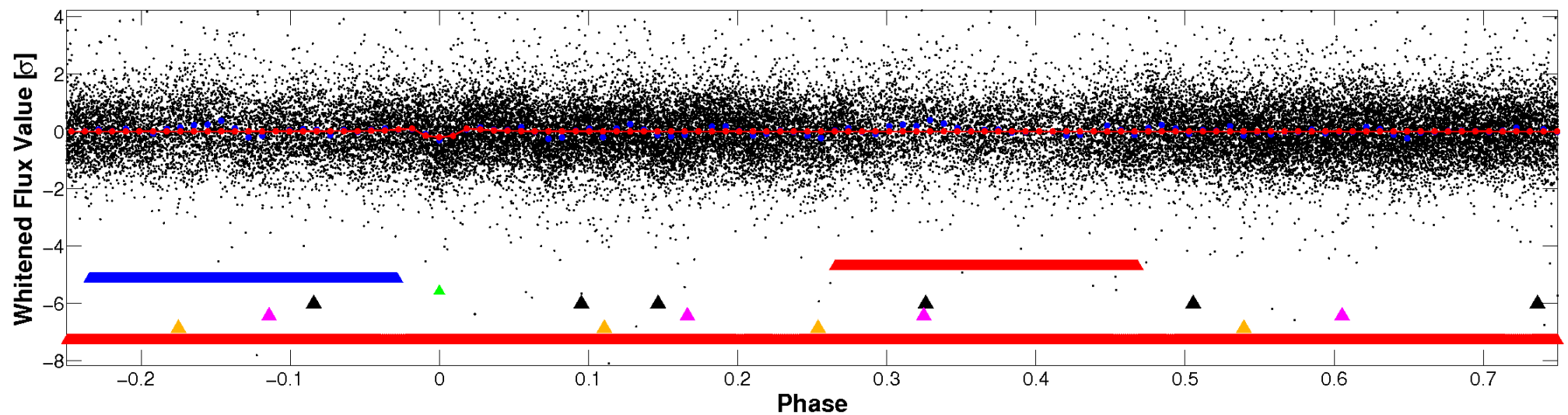


Non-Whitened Vs. Whitened Light Curve

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

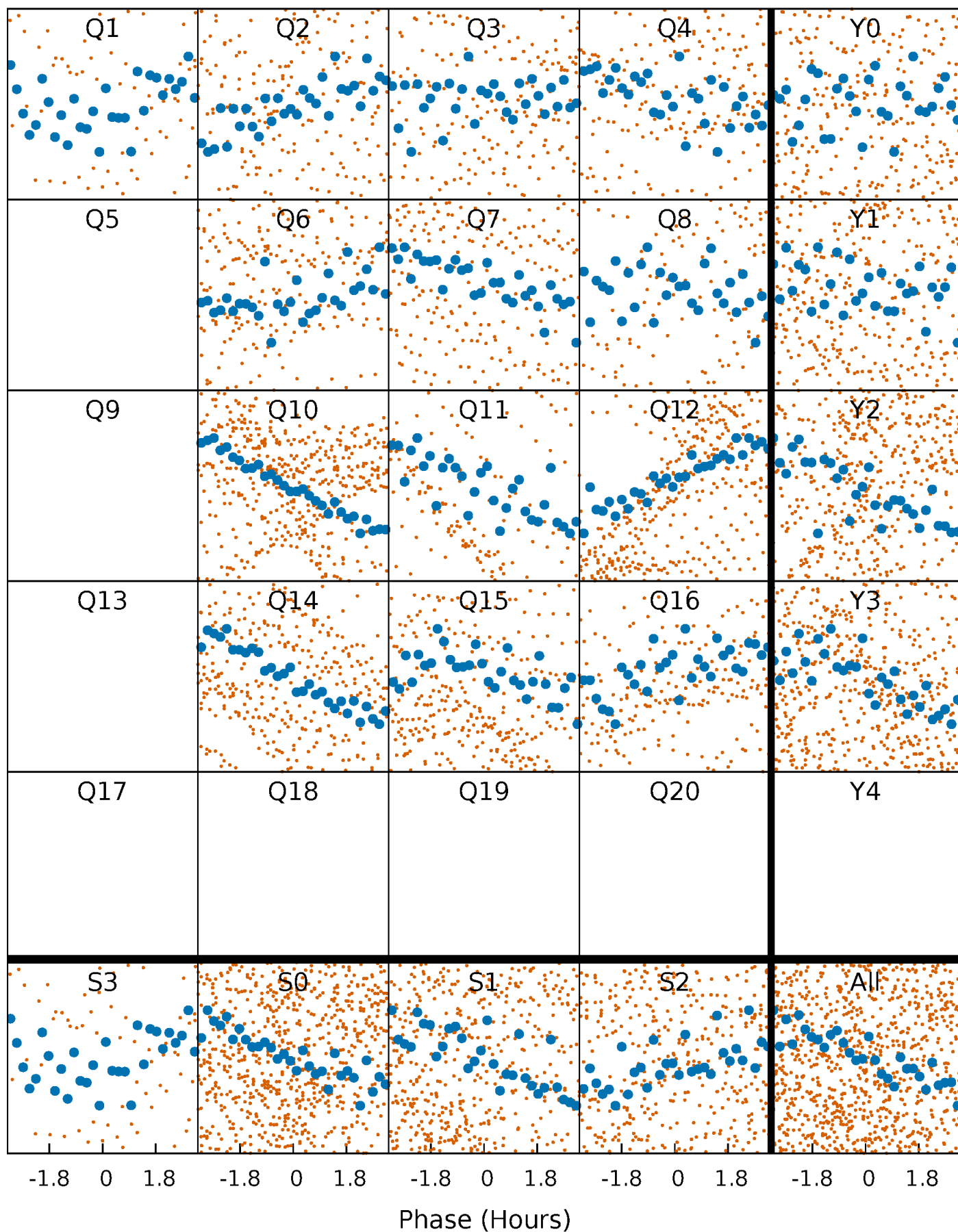


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



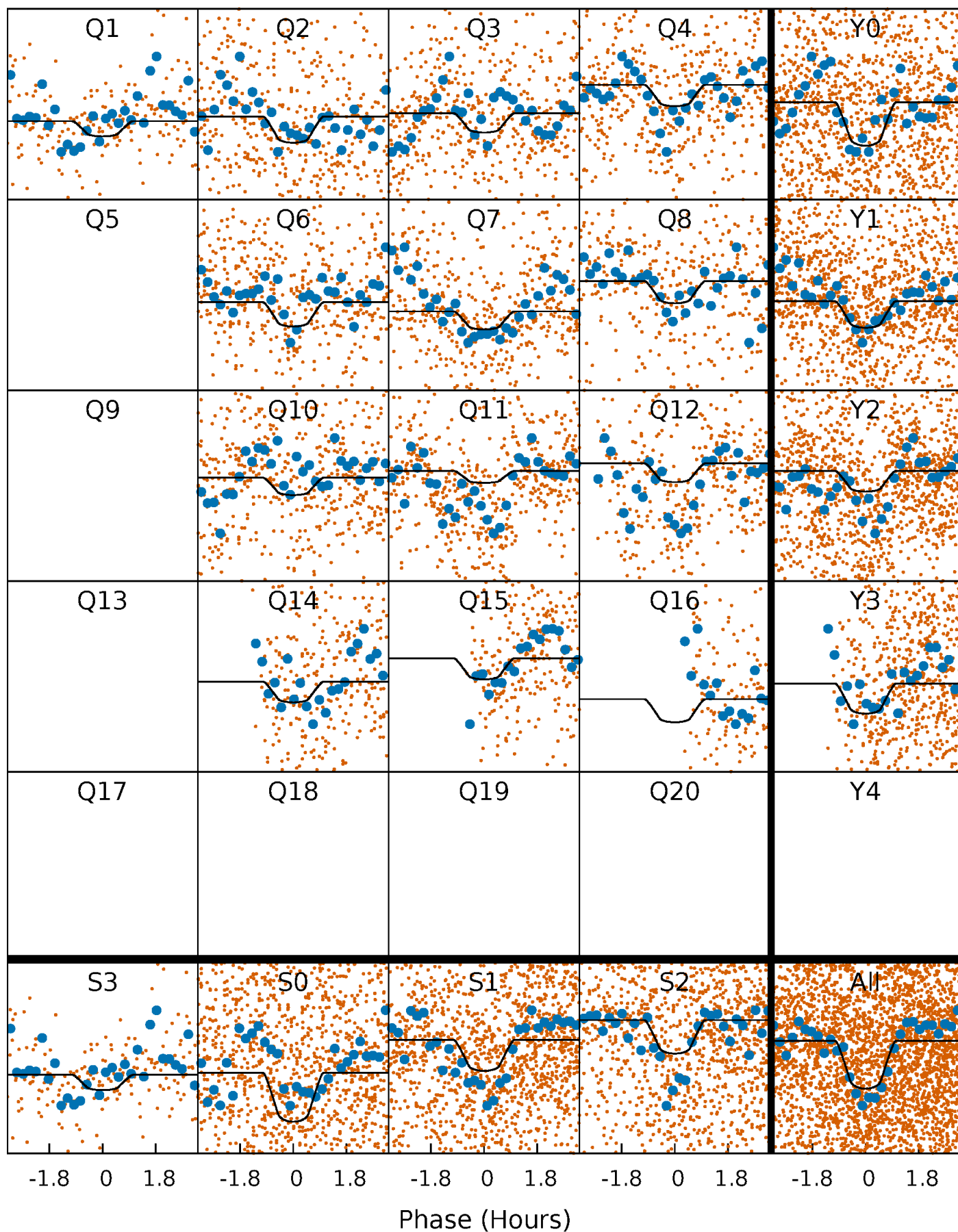
PDC Quarter-Phased Transit Curves

TCE 006758917-03 P= 2.235413 Days $T_0=133.274987$ (BKJD)



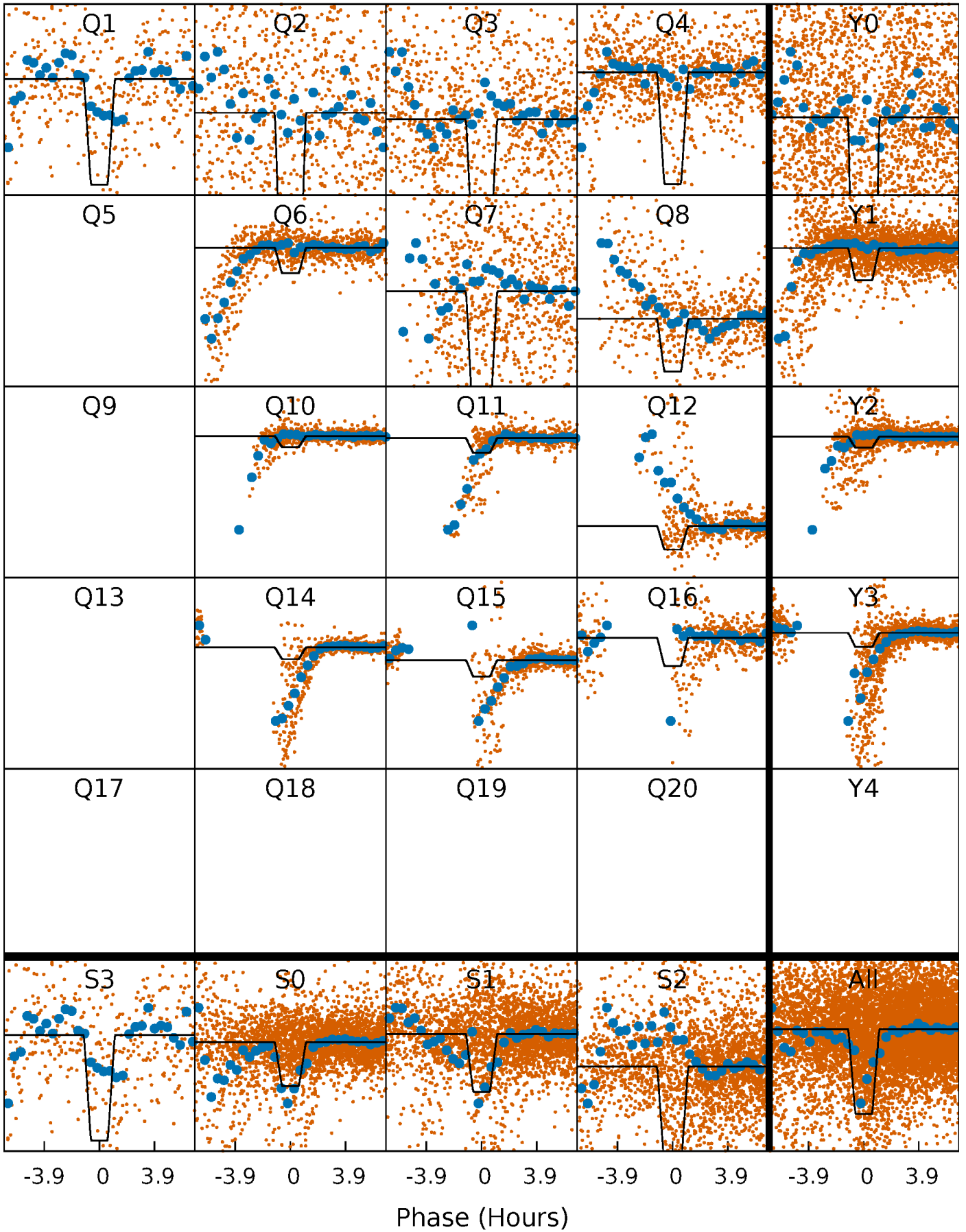
DV Quarter-Phased Transit Curves

TCE 006758917-03 P= 2.235413 Days $T_0=133.274987$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

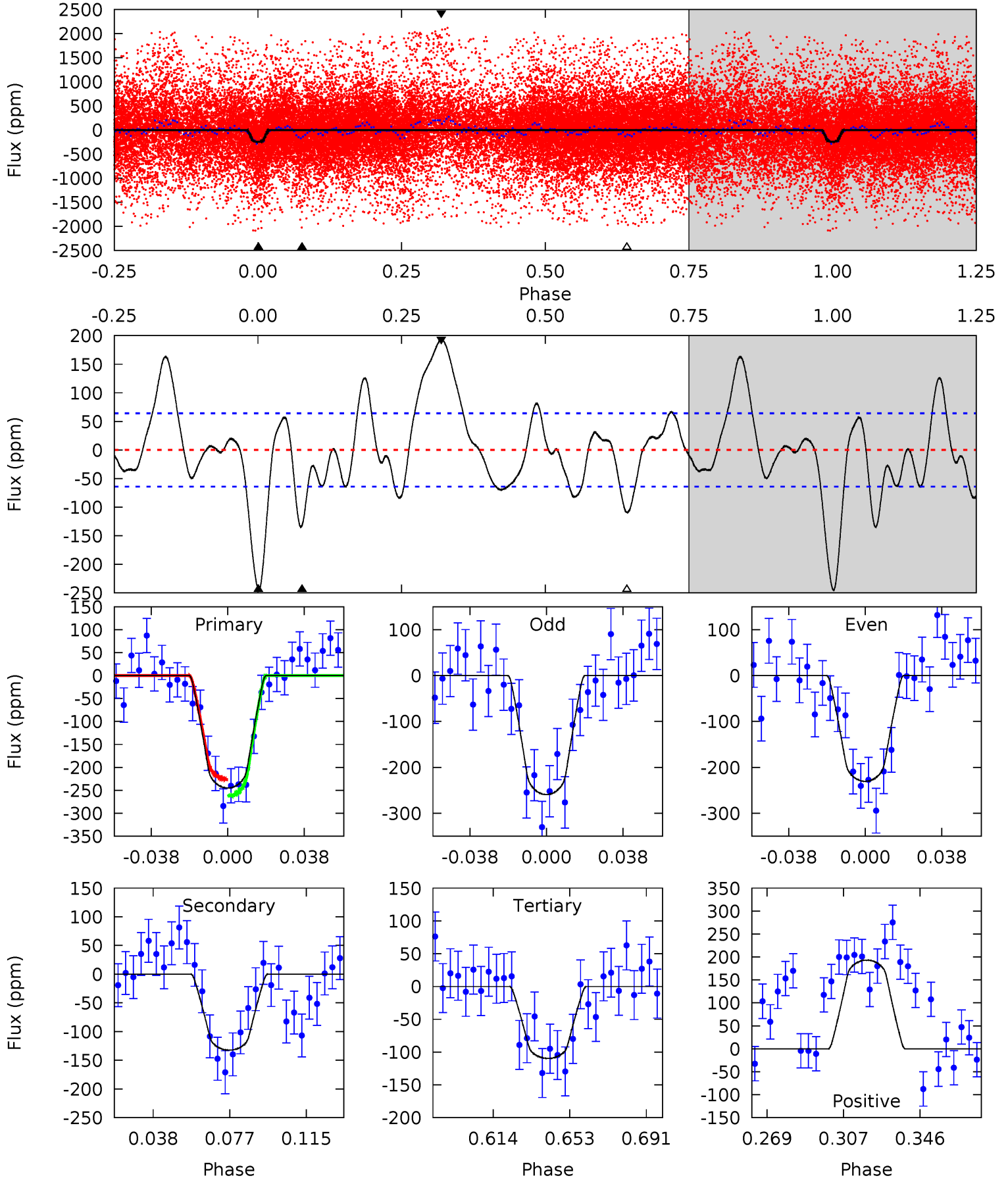
TCE 006758917-03 P= 2.235476 Days $T_0=133.250796$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-03, P = 2.235413 Days, E = 131.039574 Days

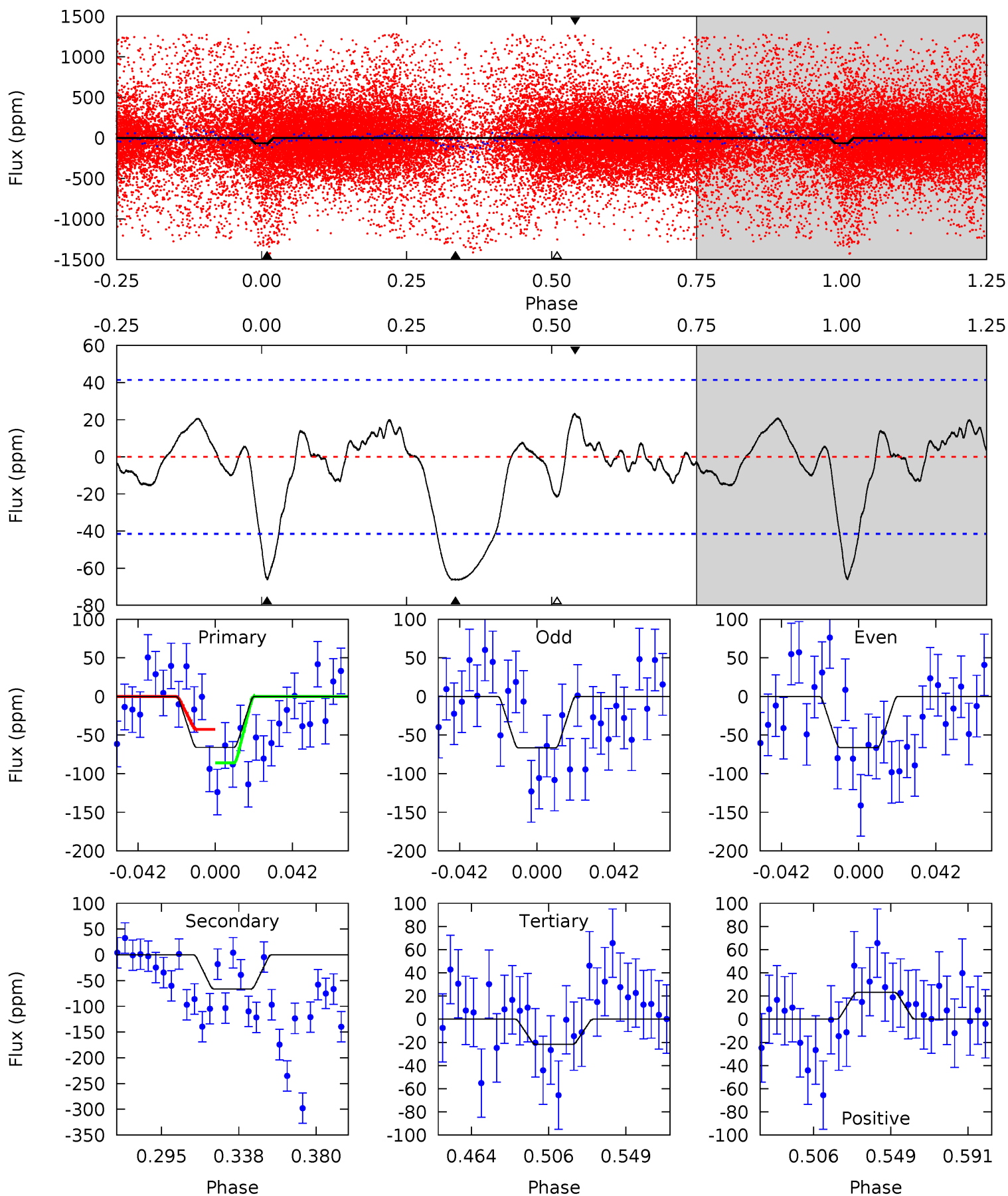
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.2	9.82	8.13	14.3	4.76	2.07	4.64	10.1	3.86	1.69	-4.51	1.08	0.84	0.44	1.36



Alt Model-Shift Uniqueness Test

006758917-03, P = 2.235476 Days, E = 131.015320 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.54	7.58	2.47	2.65	4.74	2.03	1.25	5.07	4.89	5.11	4.93	0.02	6.69	0.26	0



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-132 ± 13	$1.37^{+0.84}_{-0.69}$	1791^{+109}_{-70}	5077^{+2101}_{-878}	39^{+125}_{-24}
Alt.	-66 ± 9	$2.40^{+0.86}_{-0.78}$	1799^{+102}_{-76}	3574^{+548}_{-324}	$6.380^{+7.766}_{-2.974}$

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 $A_{obs} \gg 1.0$

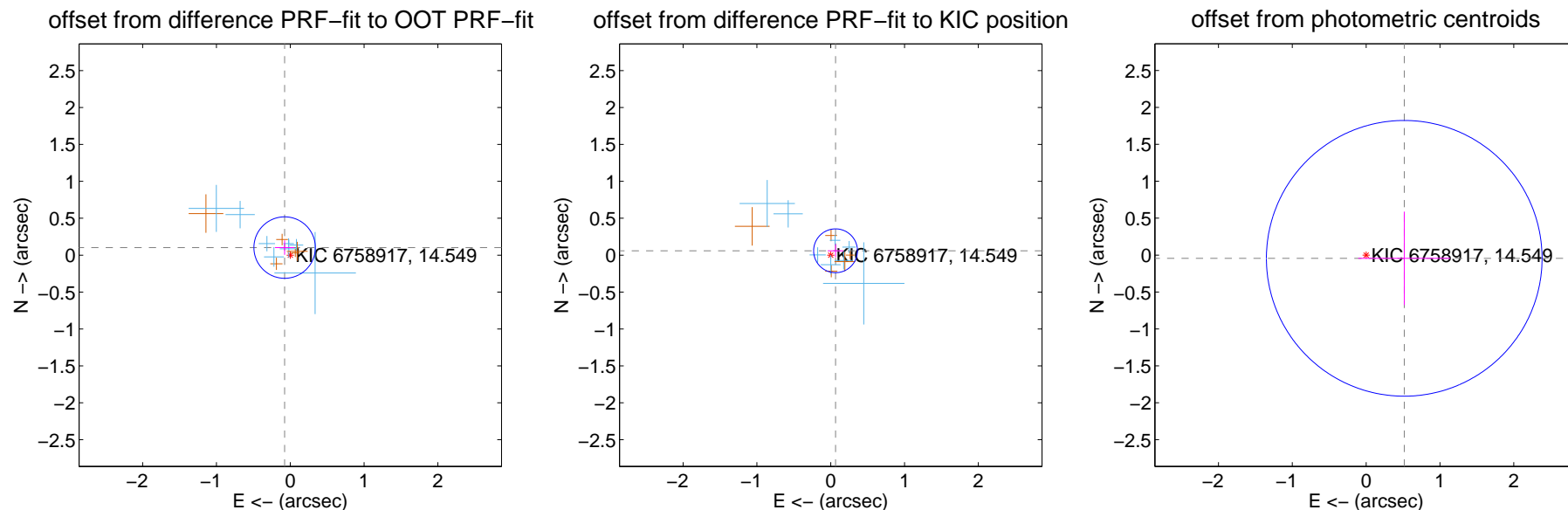
DV Centroid Data

Supplemental centroid analysis for 006758917-03. Kepler magnitude: 14.55. Transit SNR 7.32

There are 8 quarters with good PRF difference image offsets

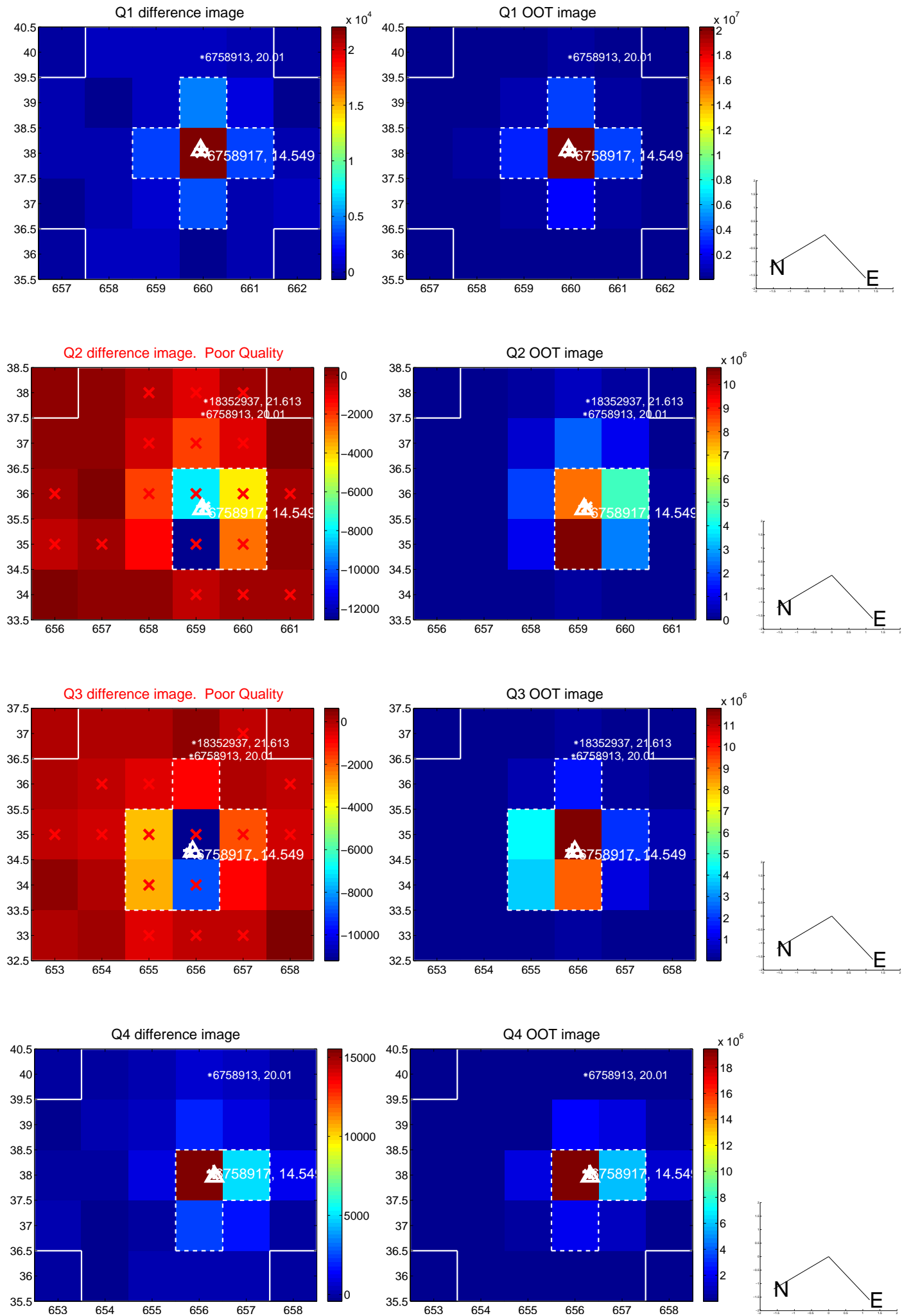
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.128 ± 0.139	0.92	0.076 ± 0.132	0.103 ± 0.097
PRF-fit source offset from KIC position	0.088 ± 0.099	0.89	-0.065 ± 0.106	0.059 ± 0.089
photometric centroid source offset	0.52 ± 0.62	0.83	-0.52 ± 0.62	-0.04 ± 0.63

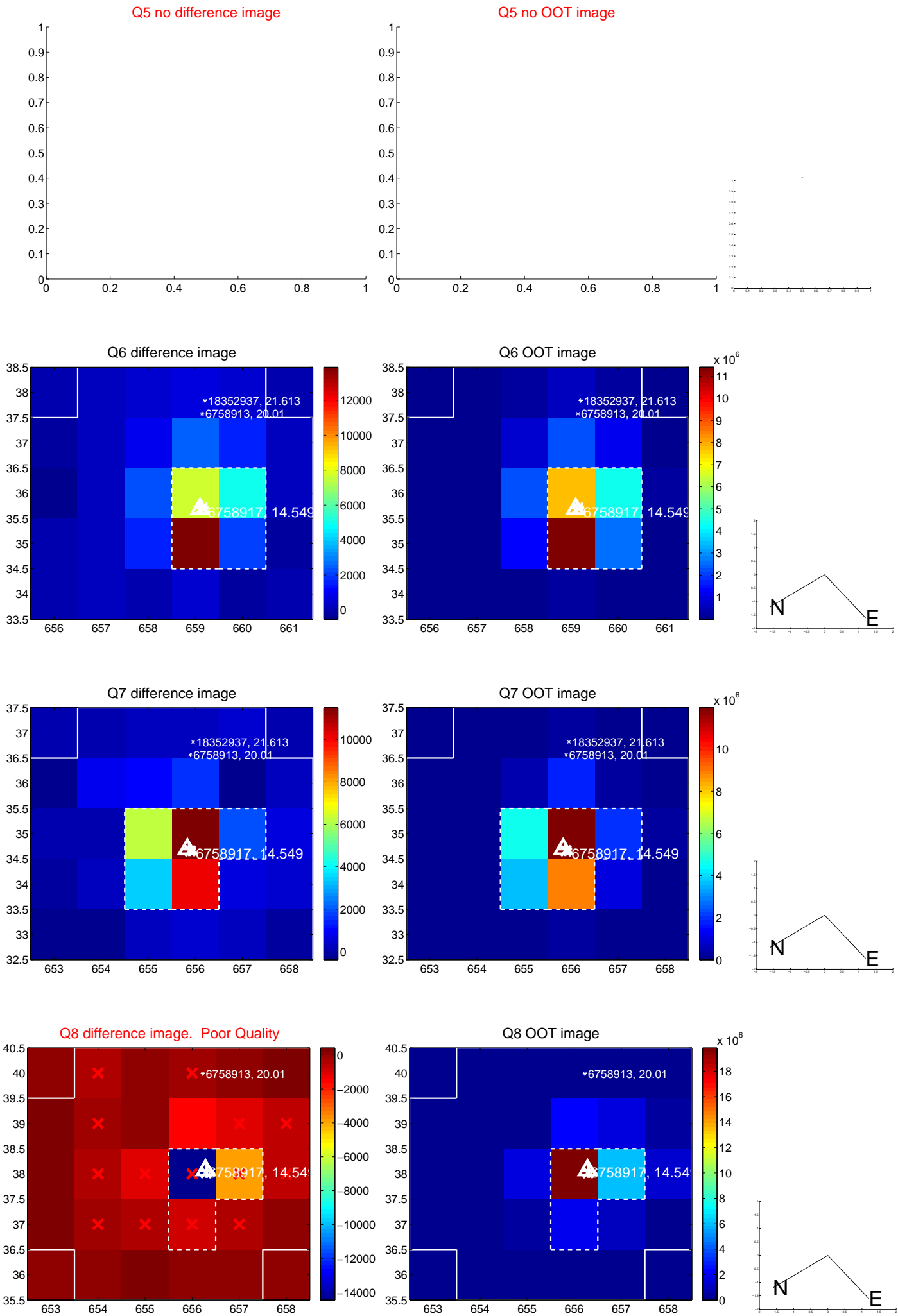


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

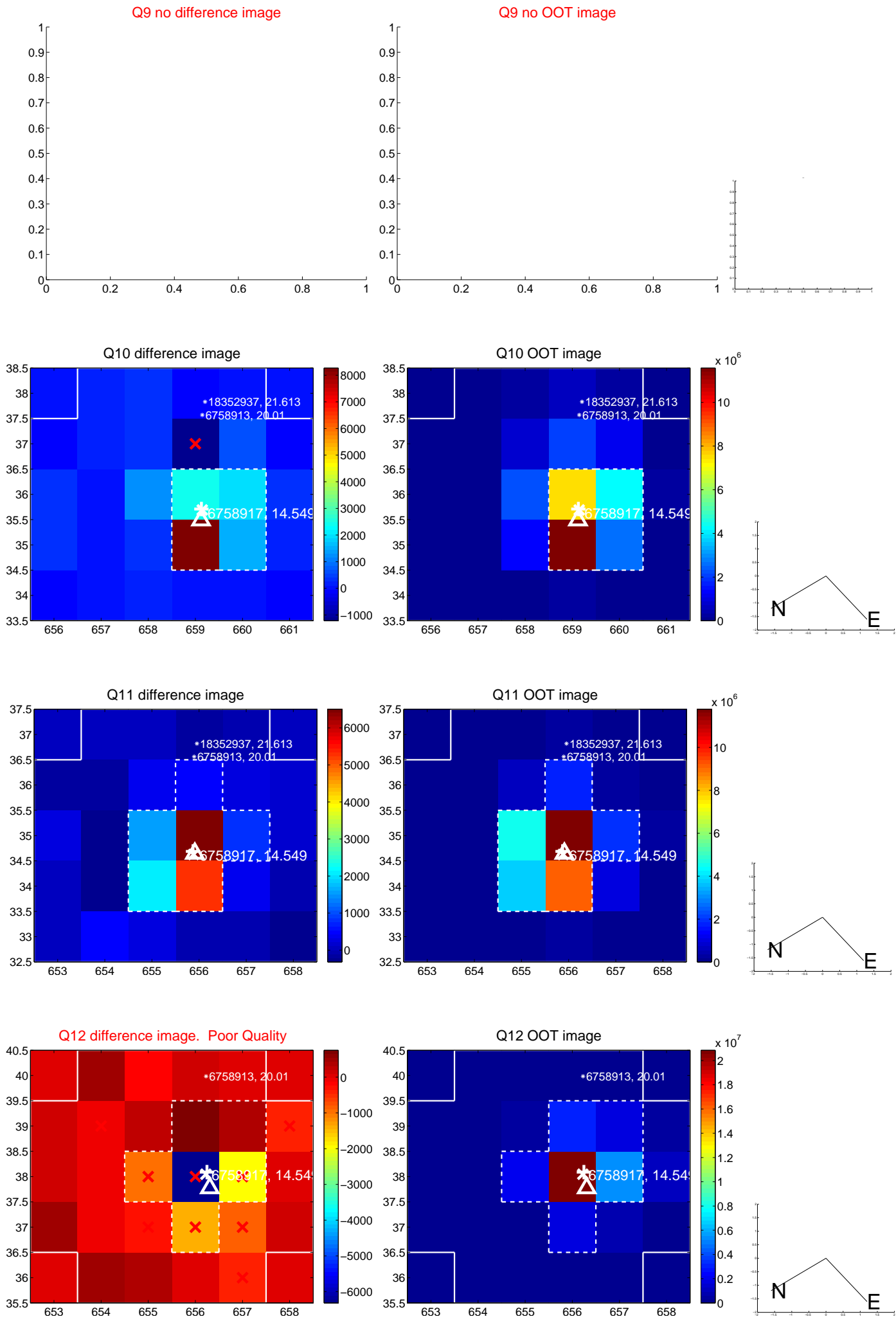
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



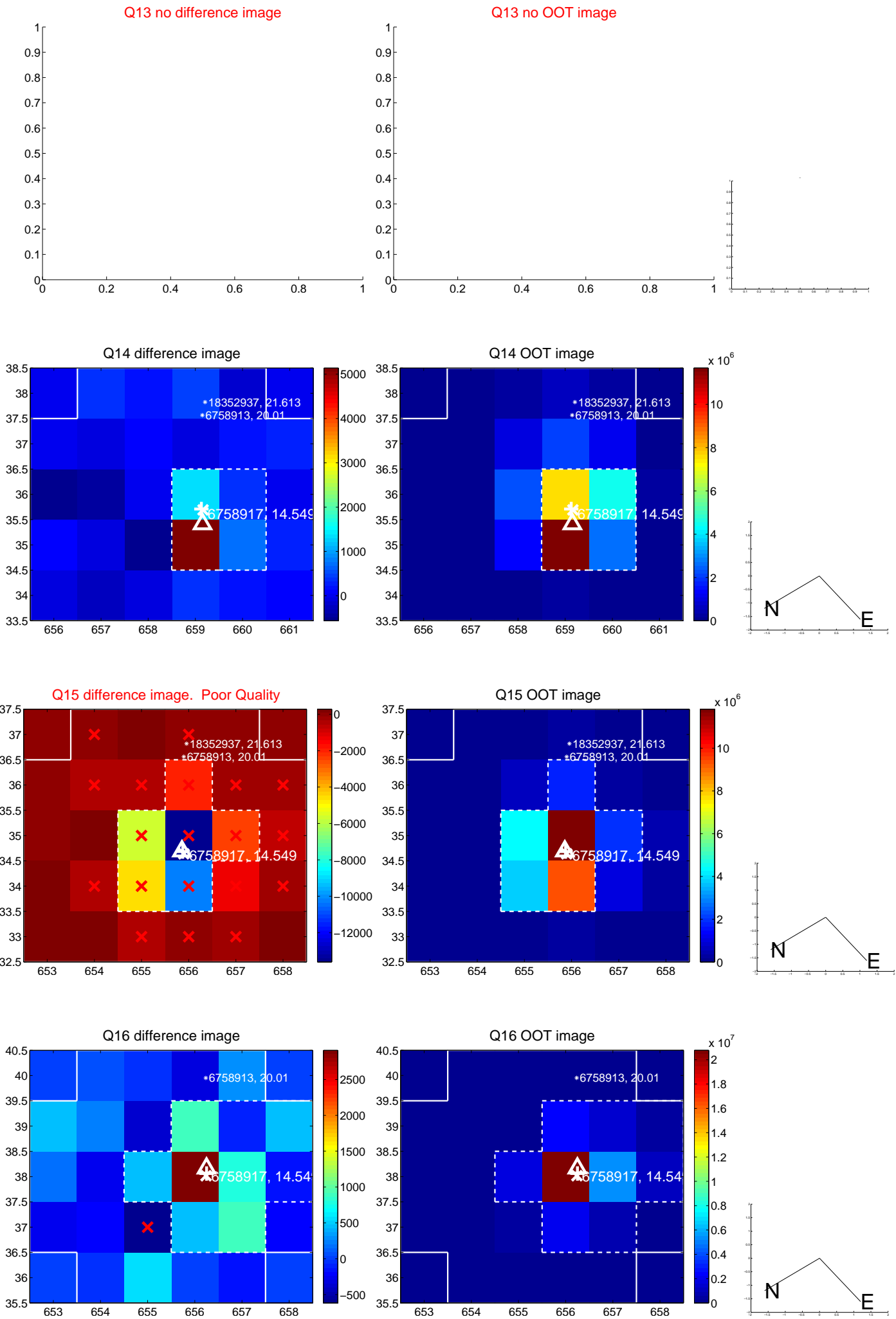
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



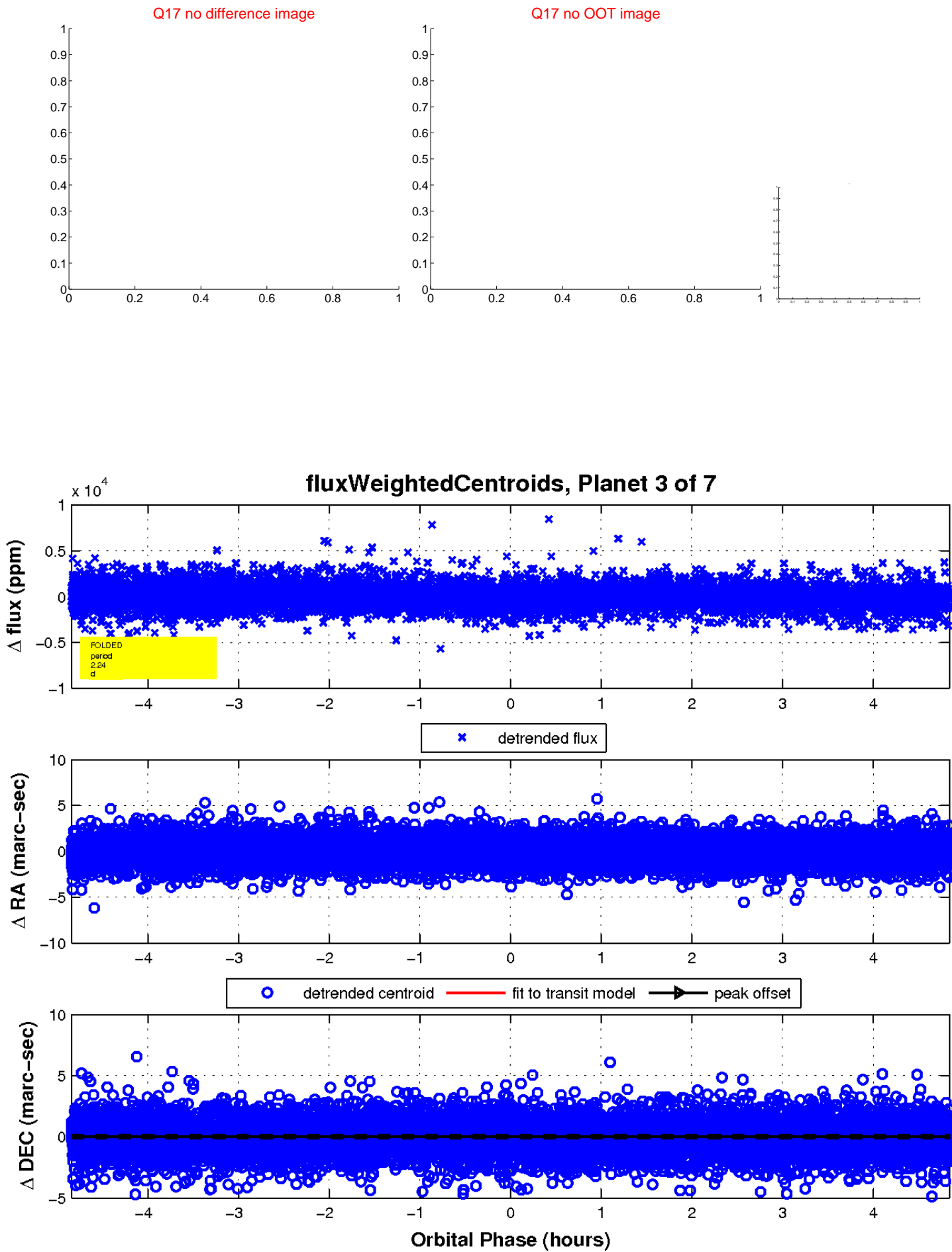
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

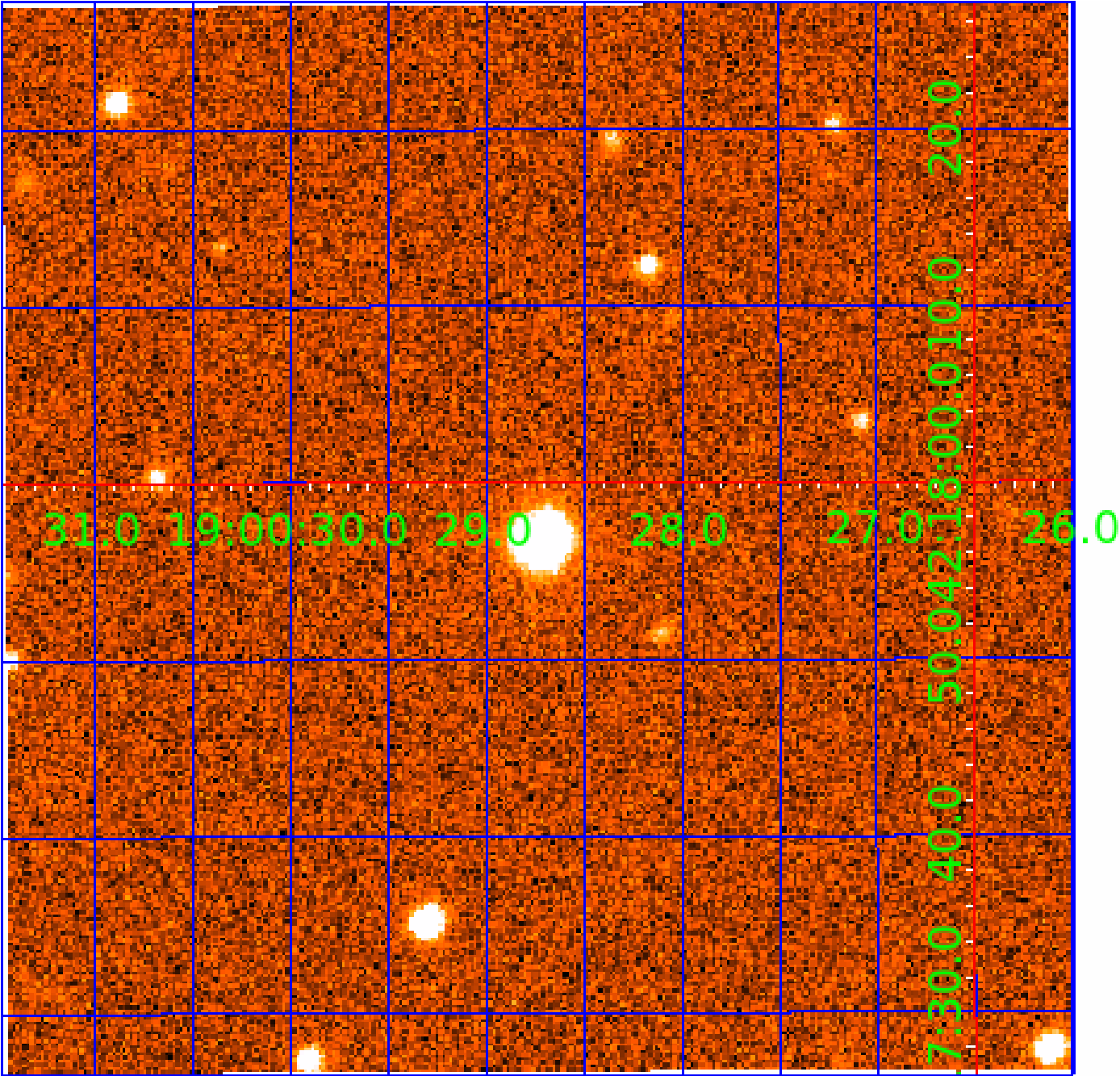


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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 006758917-04

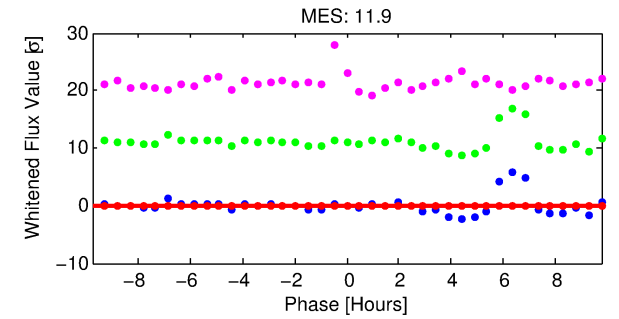
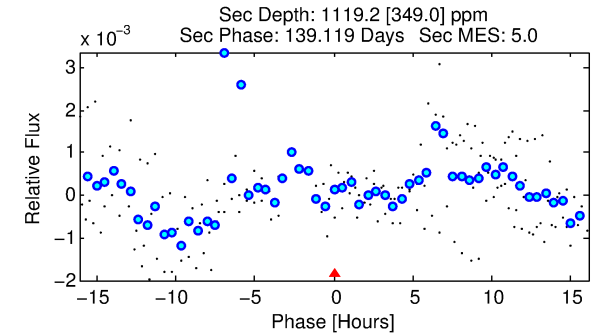
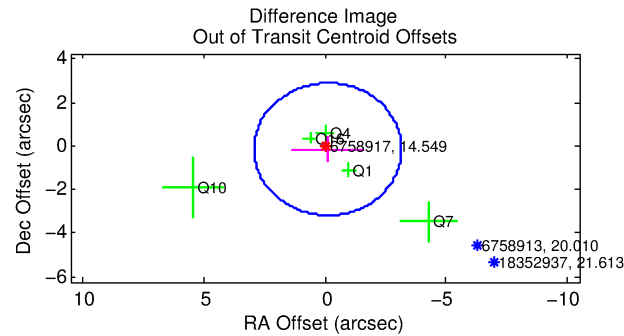
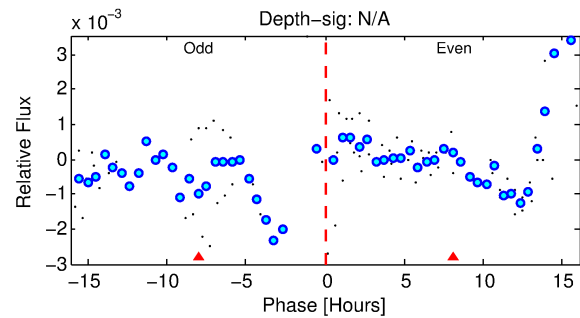
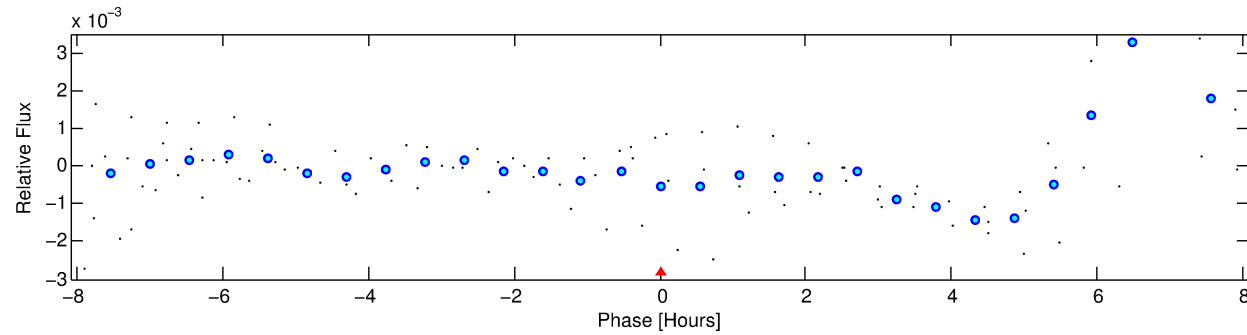
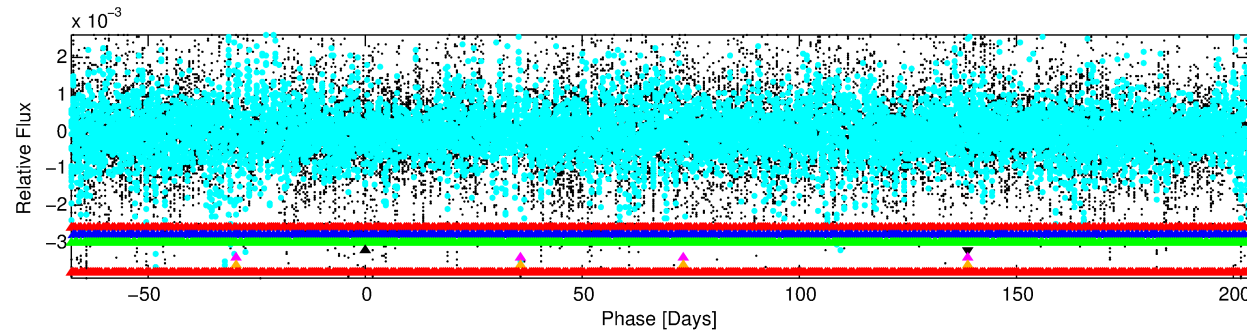
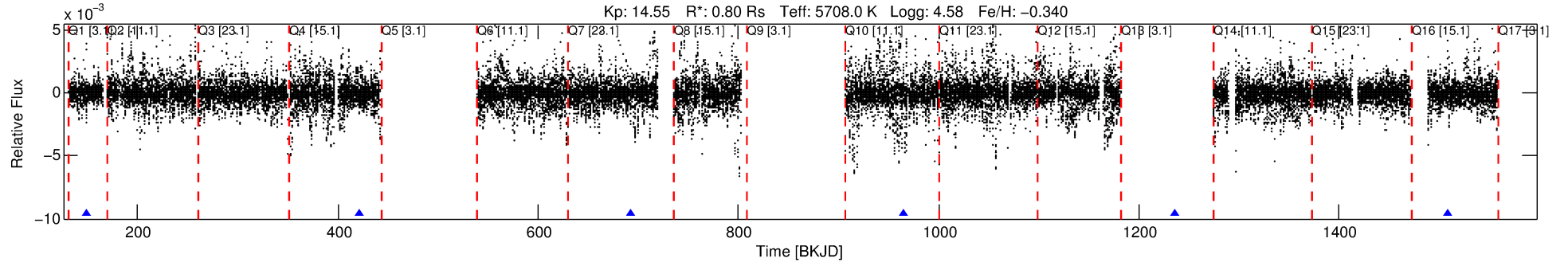
No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 4 of 7 Period: 271.803 d

KOI: K00453 Corr: No Ephemeris Match

Kp: 14.55 R*: 0.80 Rs Teff: 5708.0 K Logg: 4.58 Fe/H: -0.340



TPS TCE Results:

Period = 271.80316 d
Epoch = 149.2508 BKJD

DV fit results are unavailable

DV Diagnostic Results:

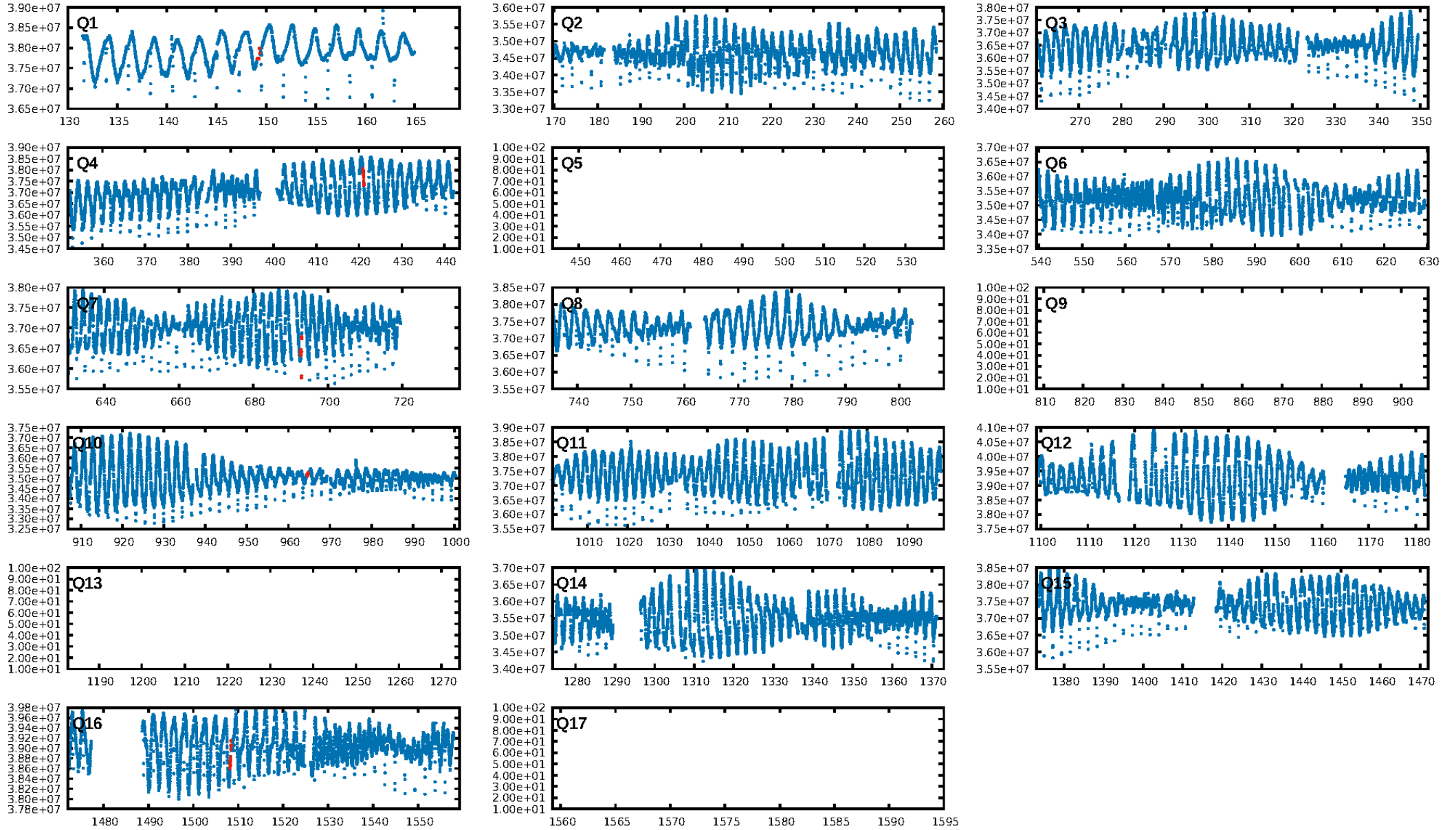
ShortPeriod-sig: 100.0% [1935.34σ]
LongPeriod-sig: 100.0% [431.21σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.3363

Centroid-sig: N/A
Centroid-so: 4.661 arcsec [0.41σ]
OotOffset-rm: 0.188 arcsec [0.19σ]
OotOffset-st: 1/1/2/1 [5]
KicOffset-rm: 0.387 arcsec [0.42σ]
KicOffset-st: 1/1/2/1 [5]
DiffImageQuality-fgm: 0.20 [1/5]
DiffImageOverlap-fno: 0.00 [0/5]

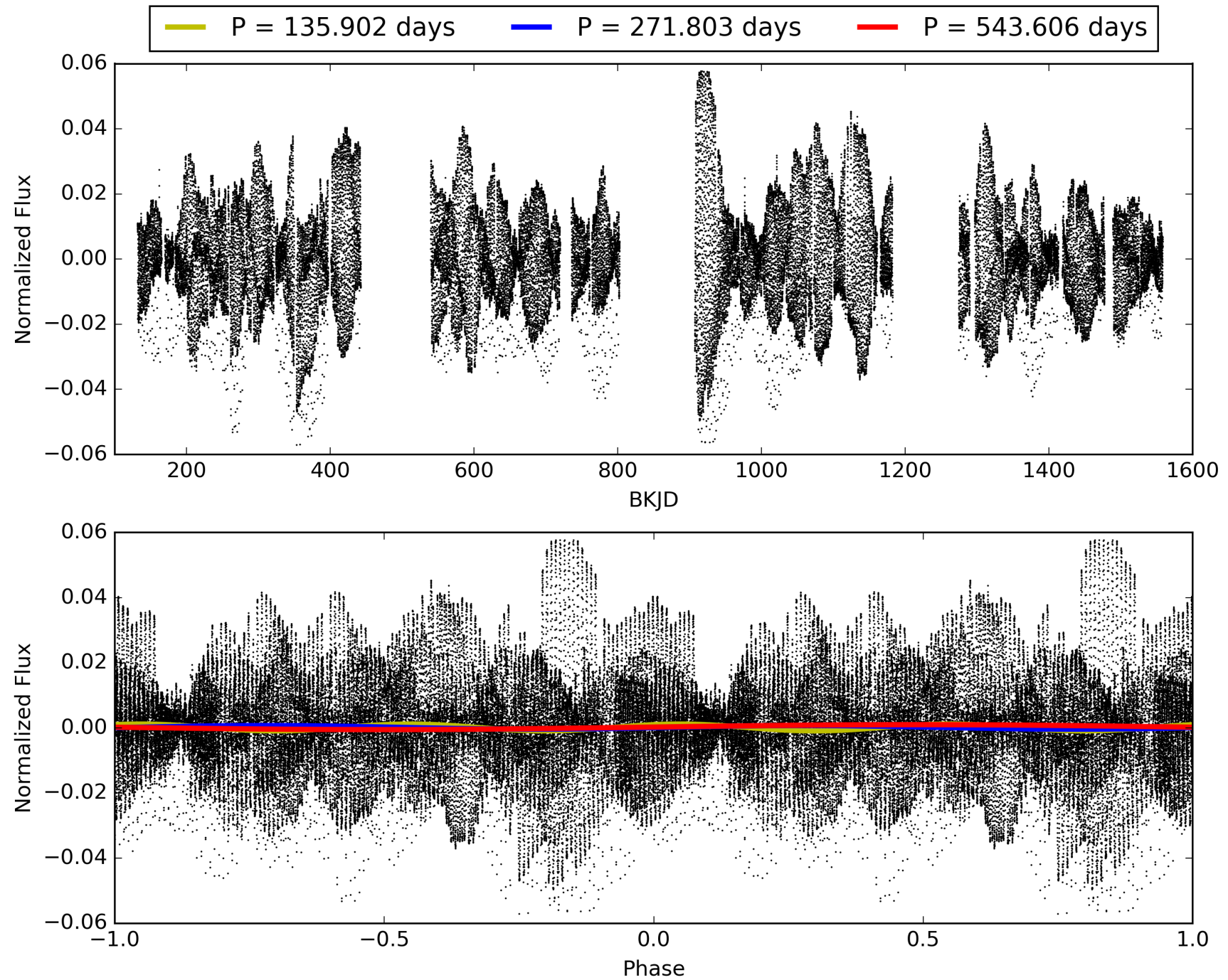
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:18:14 Z

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

TCE 006758917-04, PDC Light Curves

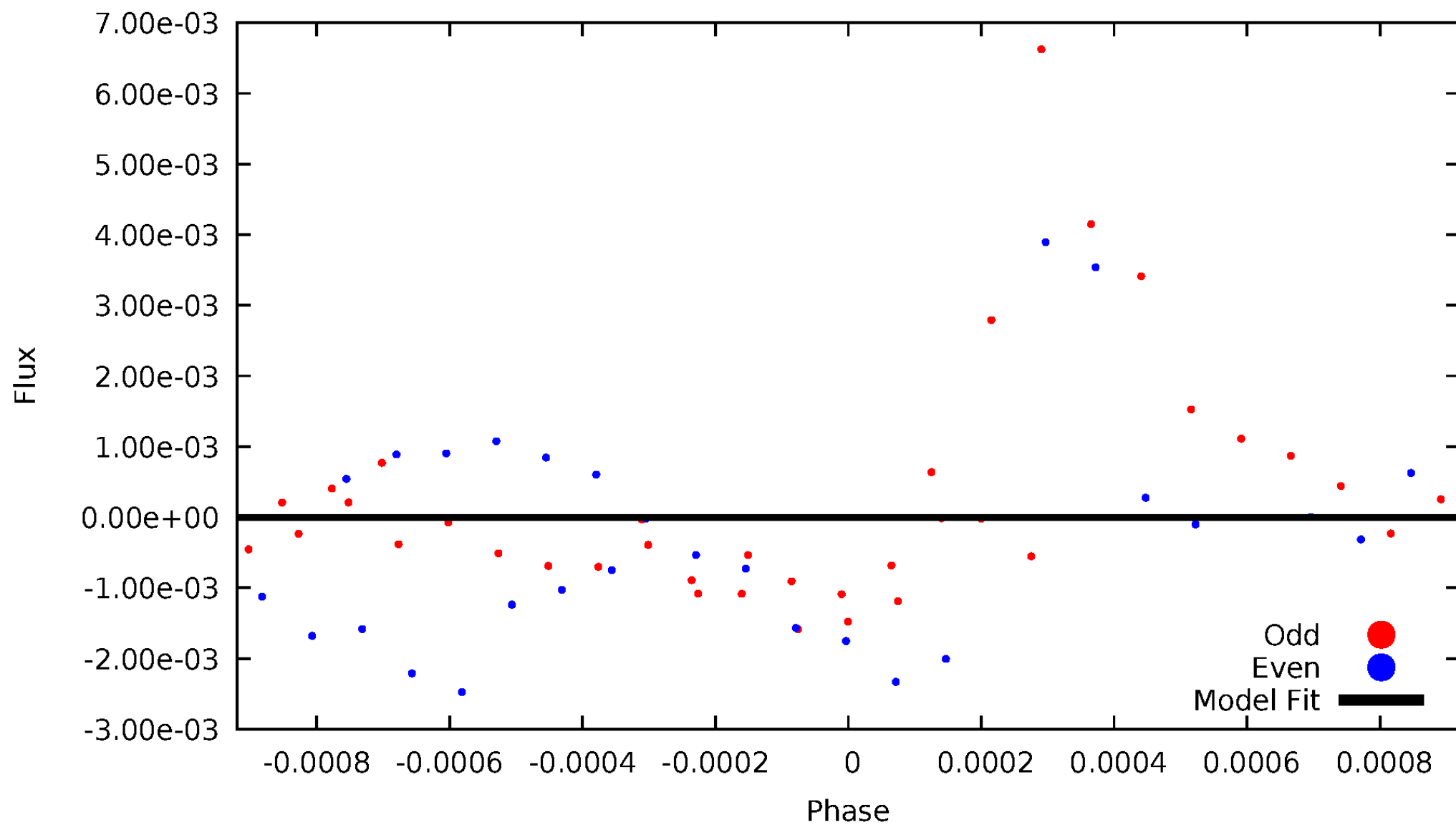


TCE 006758917-04



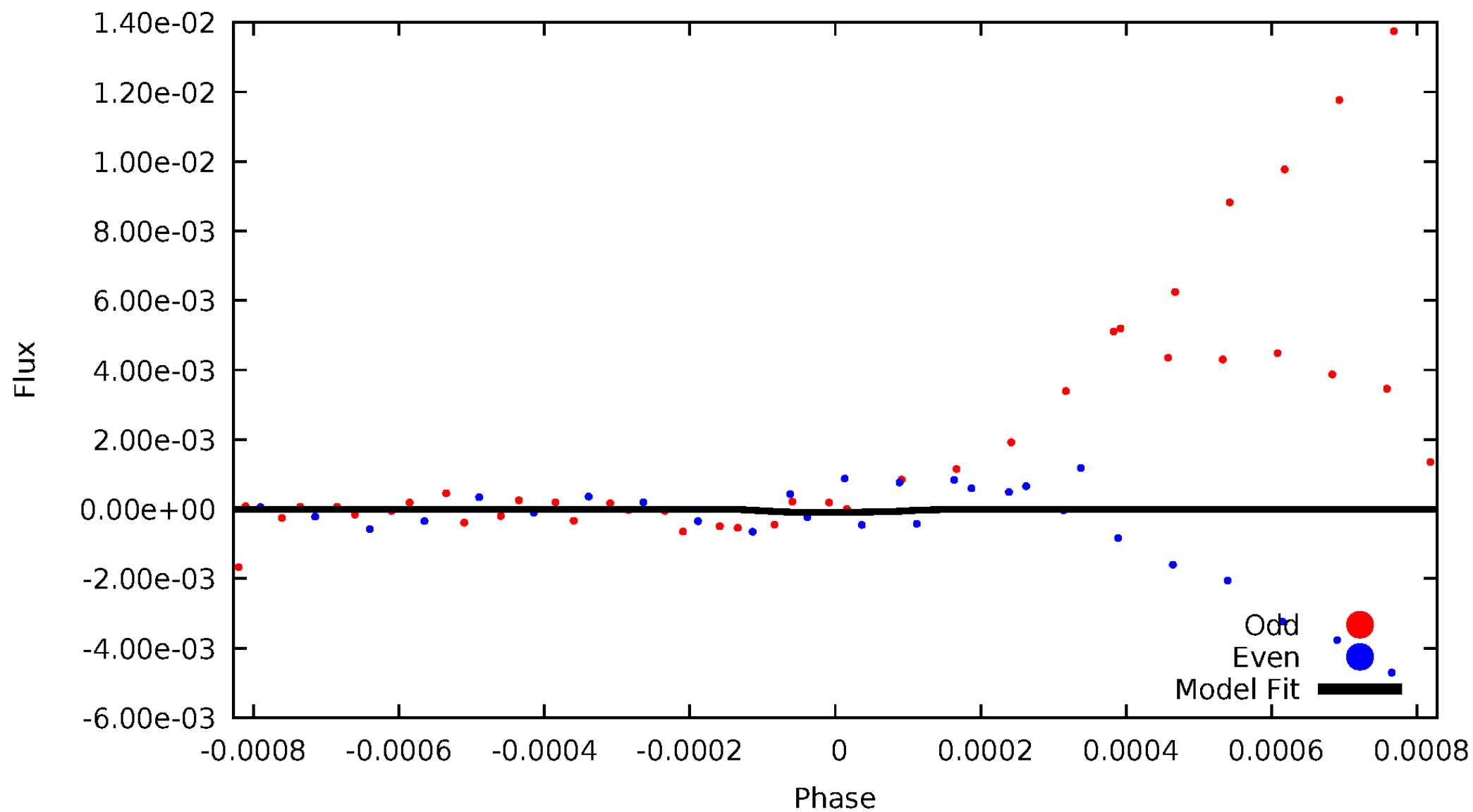
DV Odd/Even

TCE 006758917-04



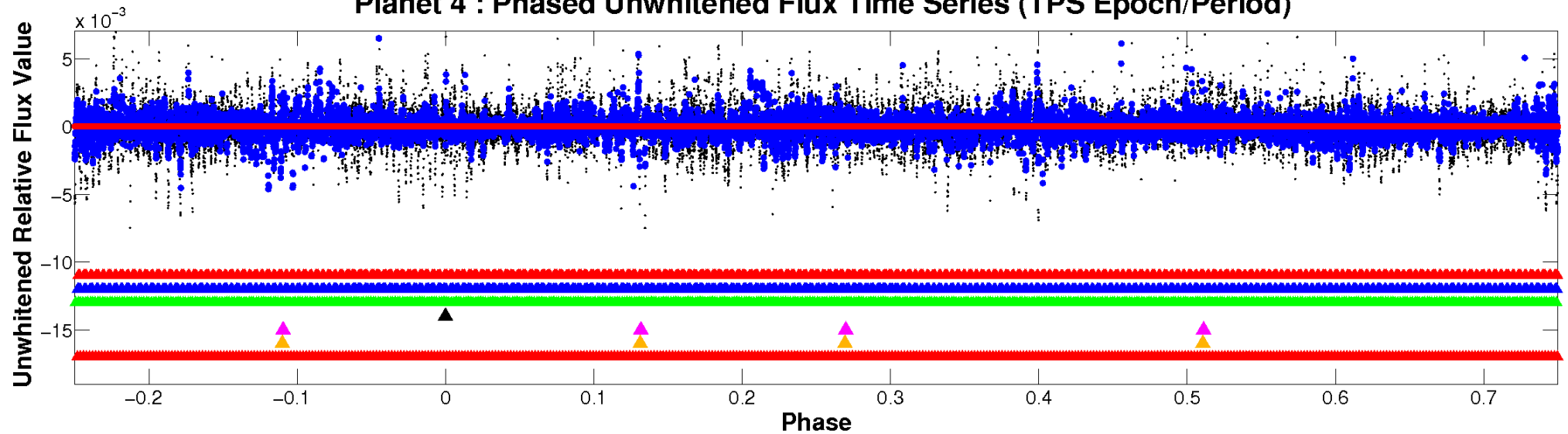
ALT Odd/Even

TCE 006758917-04

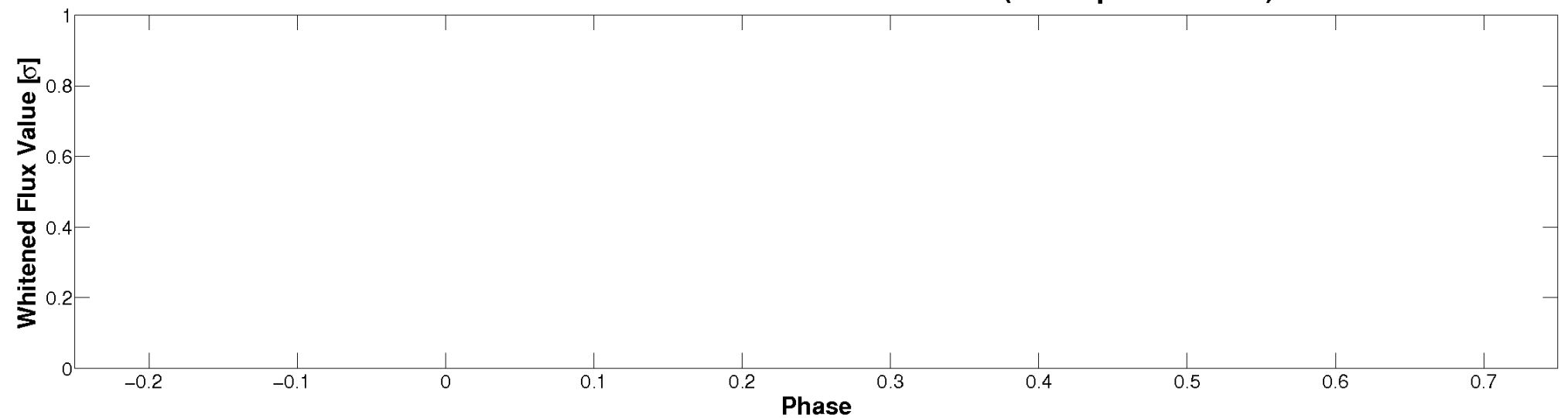


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

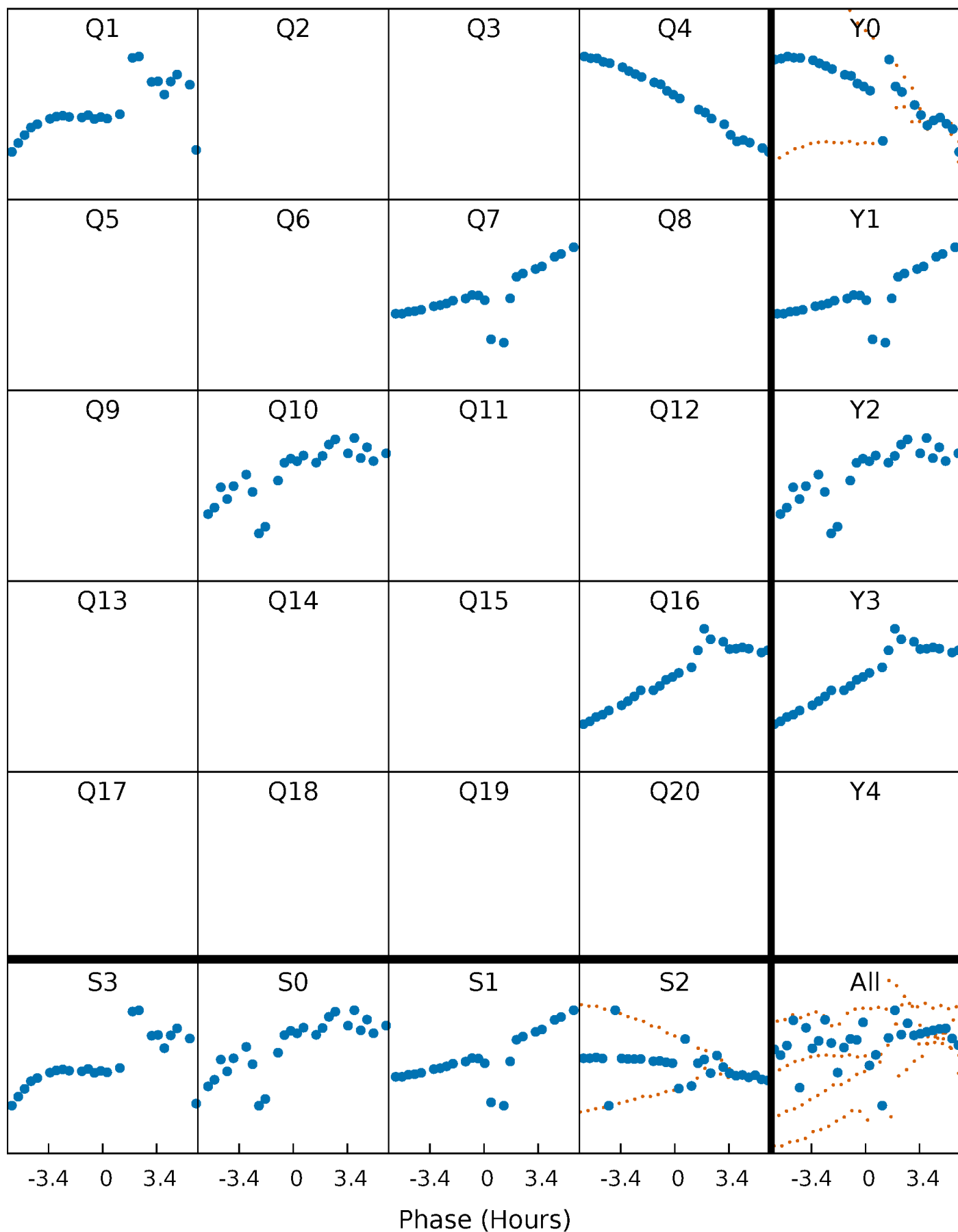


Planet 4 : Phased Whitened Flux Time Series (TPS Epoch/Period)



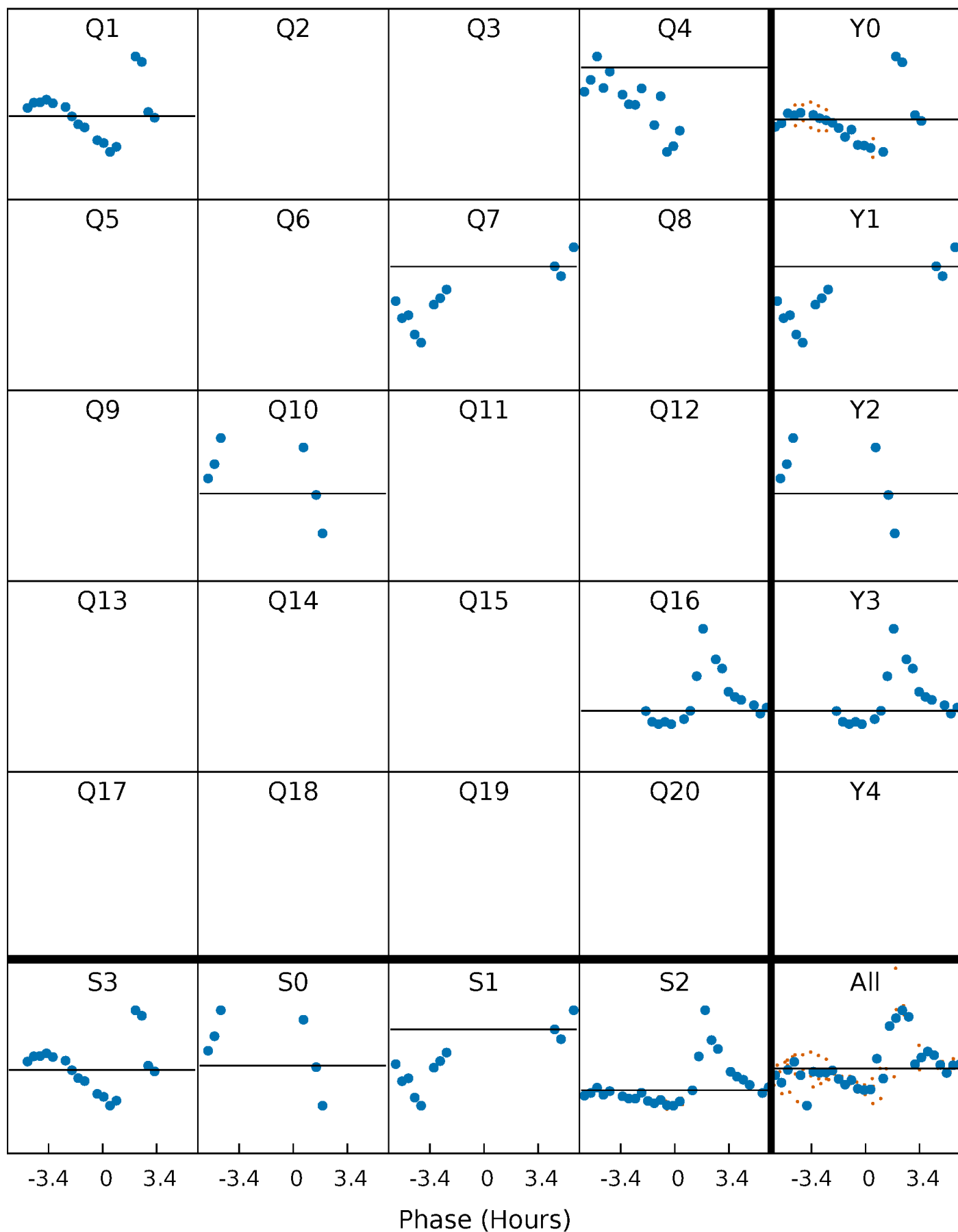
PDC Quarter-Phased Transit Curves

TCE 006758917-04 P=271.803165 Days $T_0=149.250781$ (BKJD)



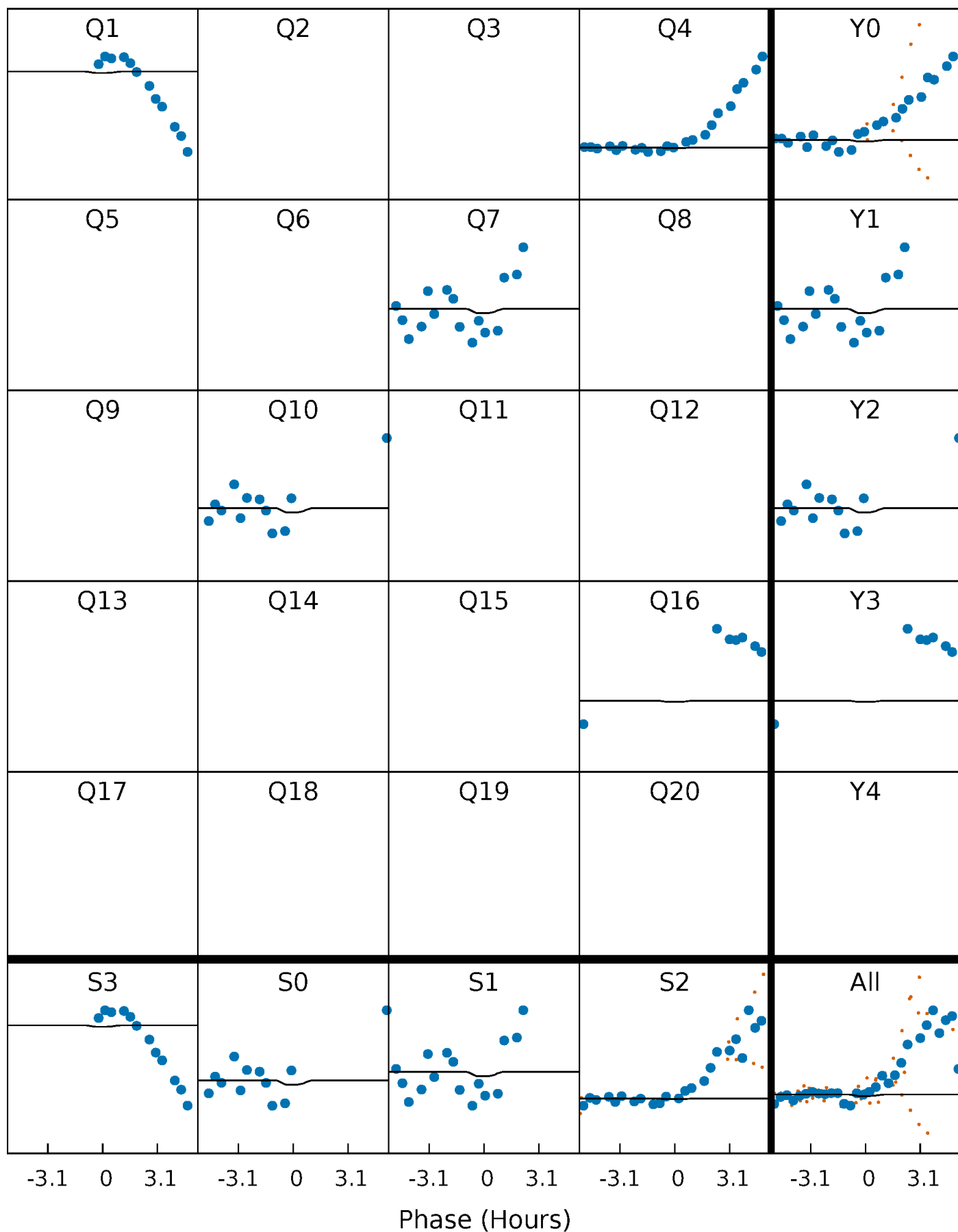
DV Quarter-Phased Transit Curves

TCE 006758917-04 $P=271.803165$ Days $T_0=149.250781$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

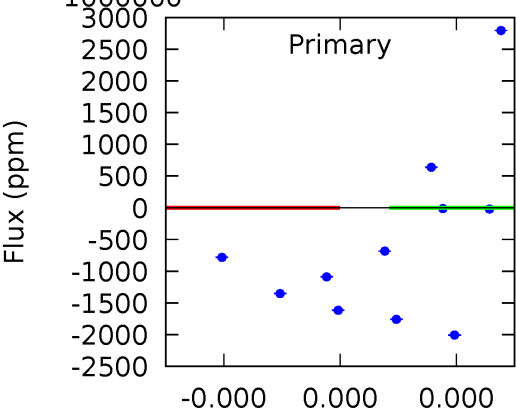
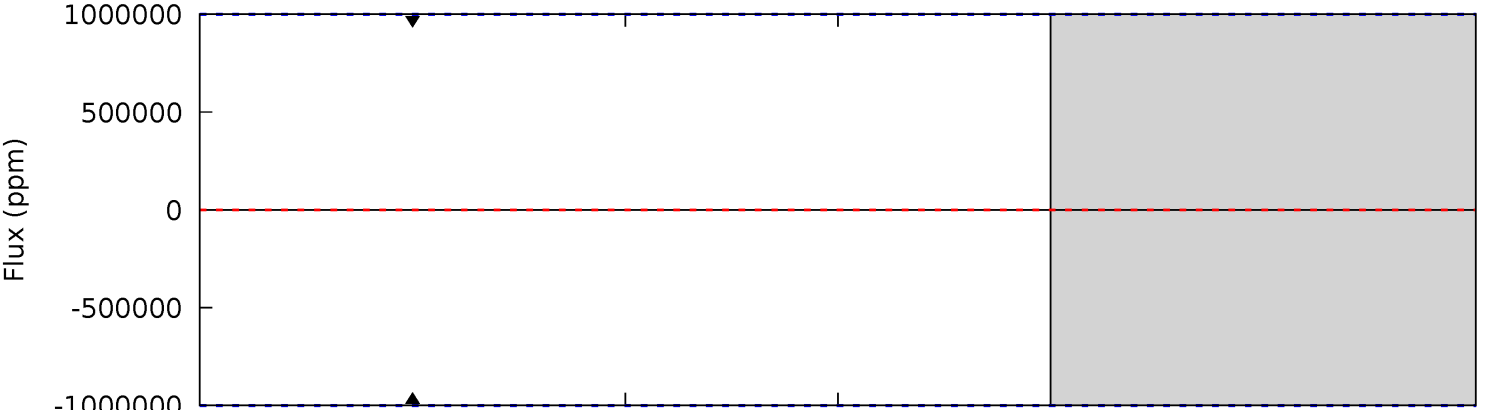
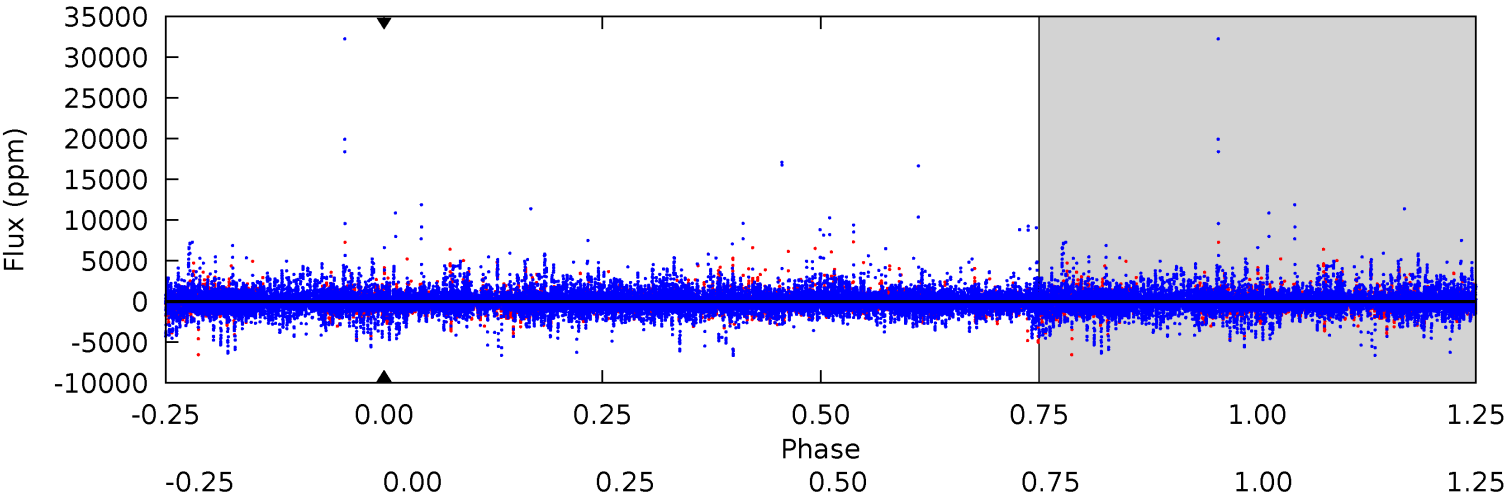
TCE 006758917-04 P=271.803165 Days $T_0=149.062296$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-04, P = 271.803165 Days, E = 149.250781 Days

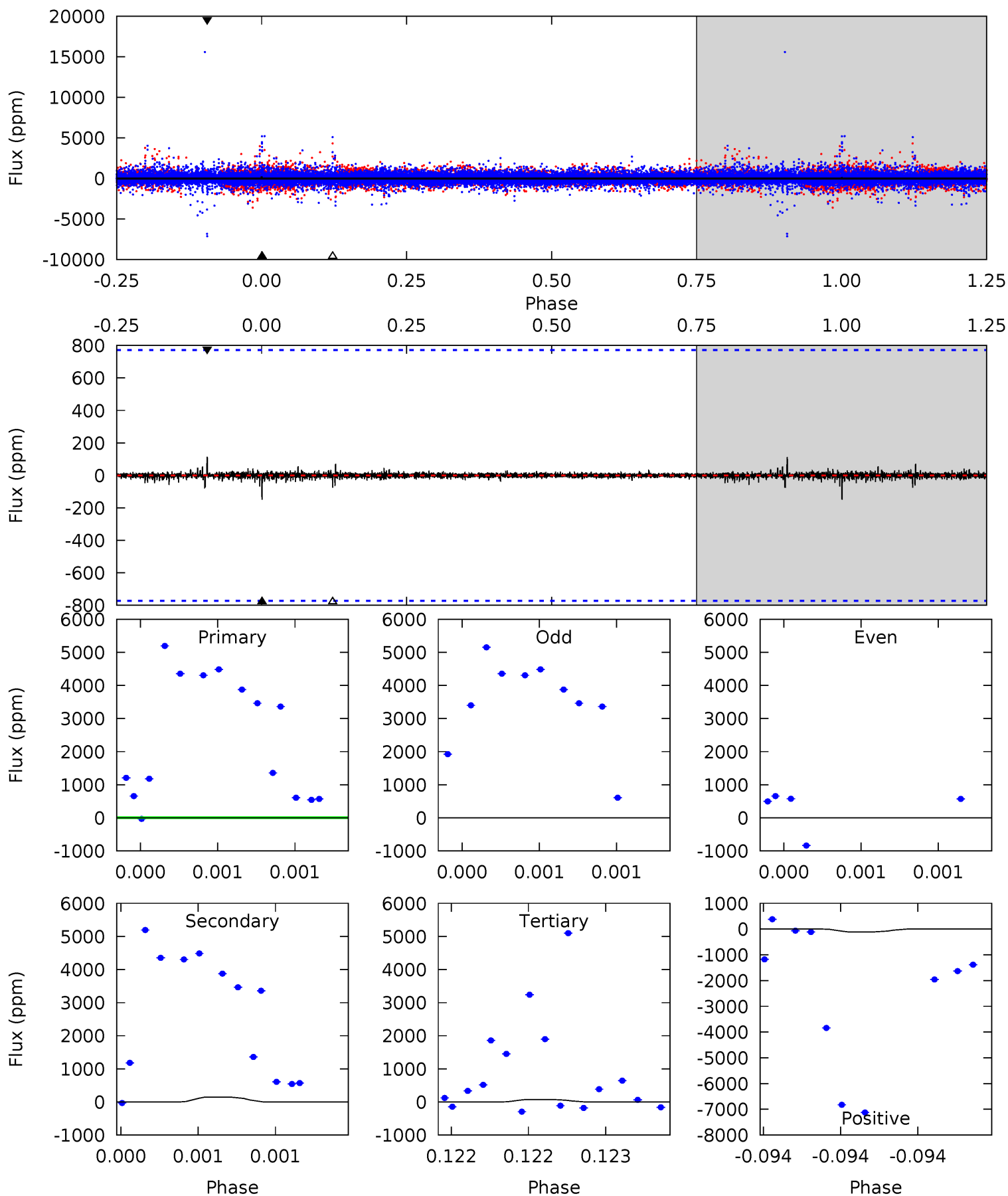
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006758917-04, P = 271.803165 Days, E = 149.062296 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.09	1.08	0.55	0.82	5.66	3.62	0.07	0.54	0.27	0.53	0.26	0.05	1.16	0.43	1.20



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$7.28^{+7.78}_{-4.82}$	363^{+20}_{-15}	4477^{+14181}_{-22417}	$12168^{+1093855}_{-1075524}$
Alt.	-148 ± 136	$6.66^{+6.94}_{-4.82}$	364^{+22}_{-15}	2863^{+1567}_{-840}	812^{+11406}_{-764}

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 $A_{obs} \gg 1.0$

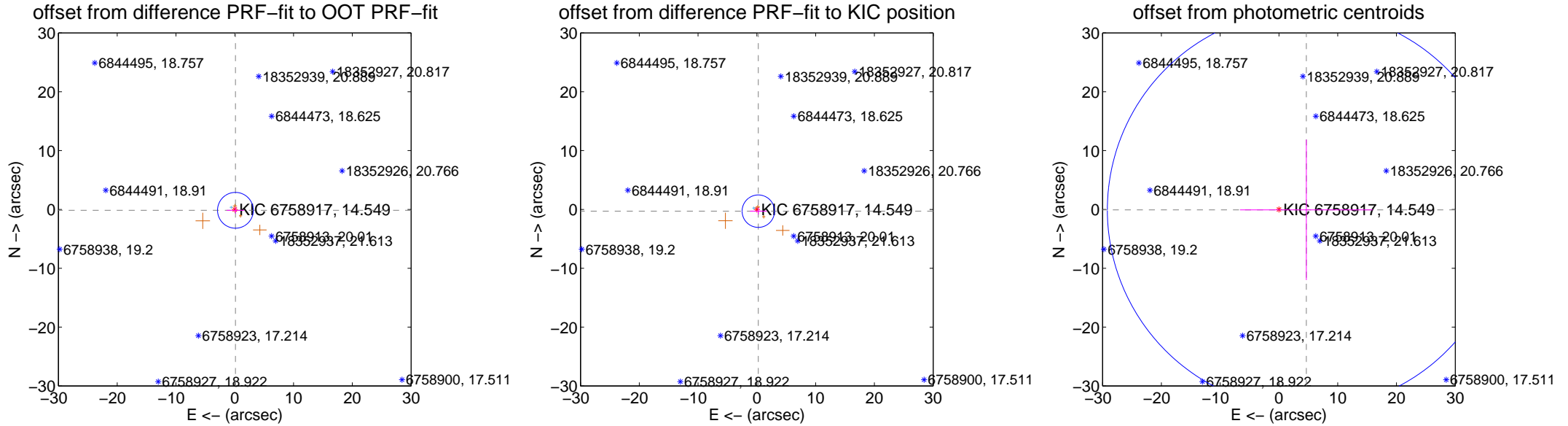
DV Centroid Data

Supplemental centroid analysis for 006758917-04. Kepler magnitude: 14.55. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

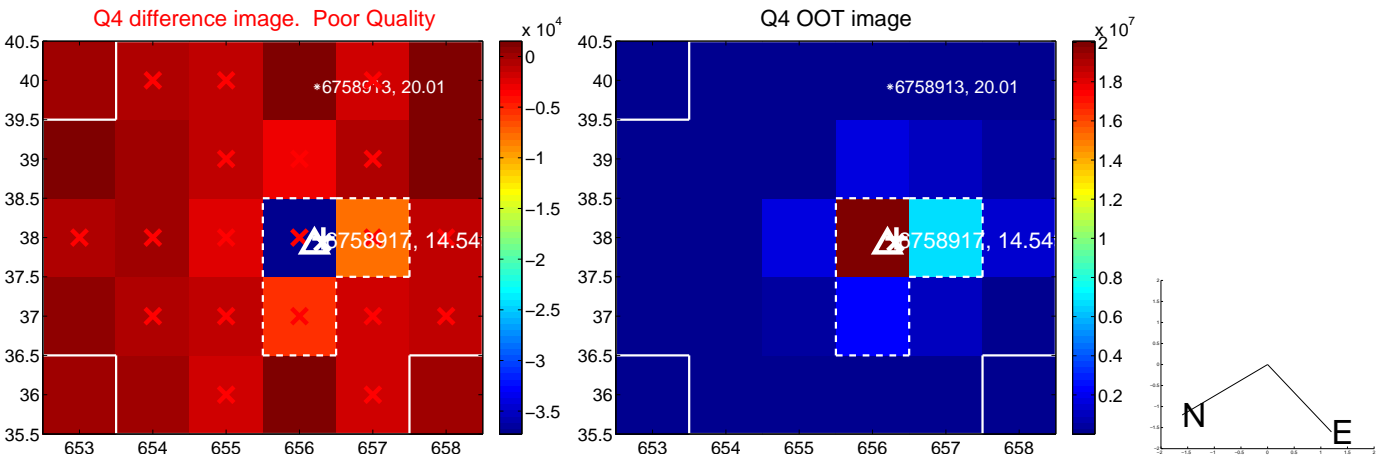
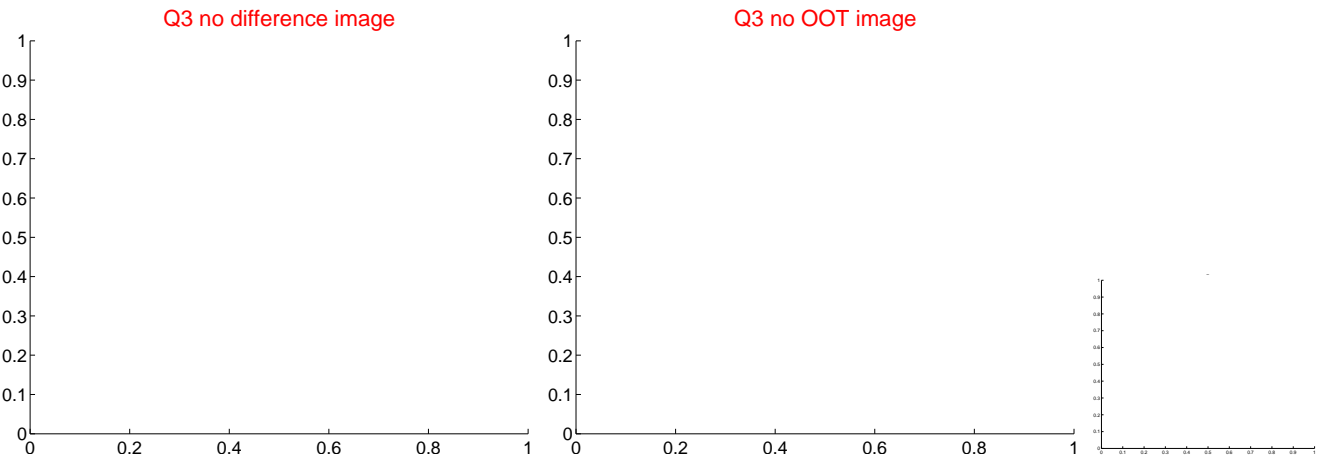
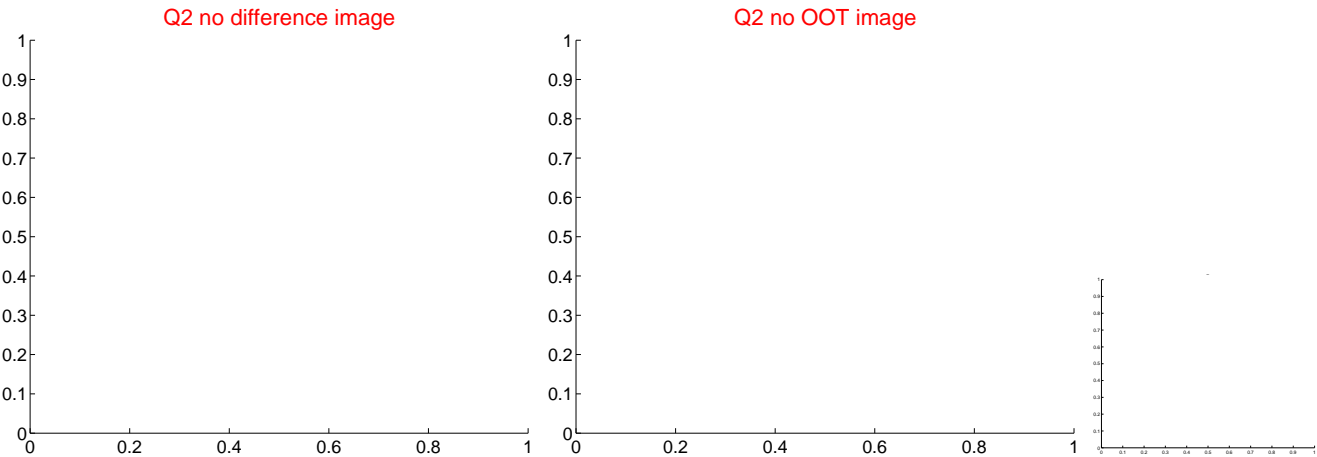
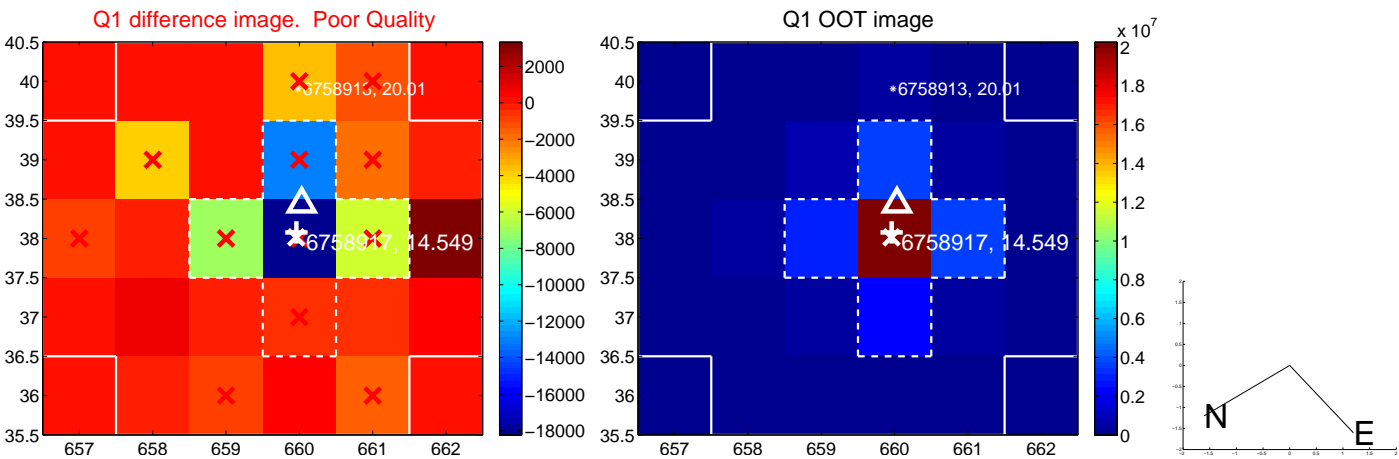
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.188 ± 1.014	0.19	-0.114 ± 1.497	-0.149 ± 0.564
PRF-fit source offset from KIC position	0.387 ± 0.919	0.42	-0.251 ± 1.425	-0.295 ± 0.580
photometric centroid source offset	4.66 ± 11.28	0.41	-4.66 ± 11.28	-0.07 ± 11.94



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.

Q5 no difference image



Q5 no OOT image



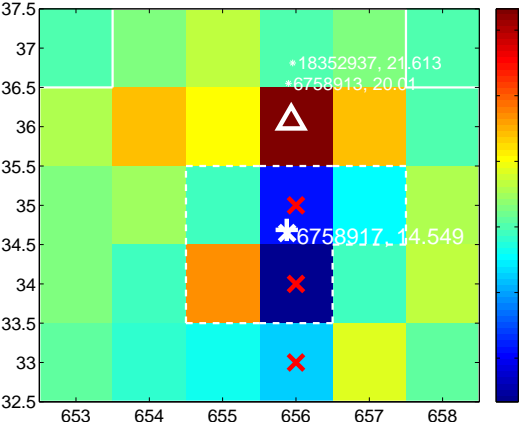
Q6 no difference image



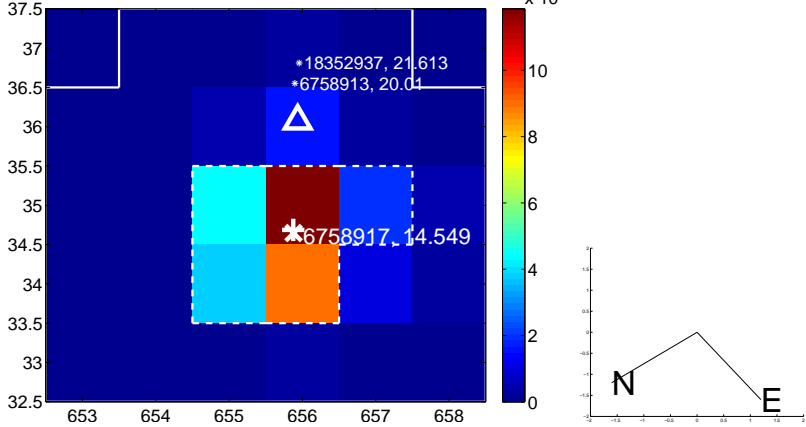
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



Q8 no difference image



Q8 no OOT image

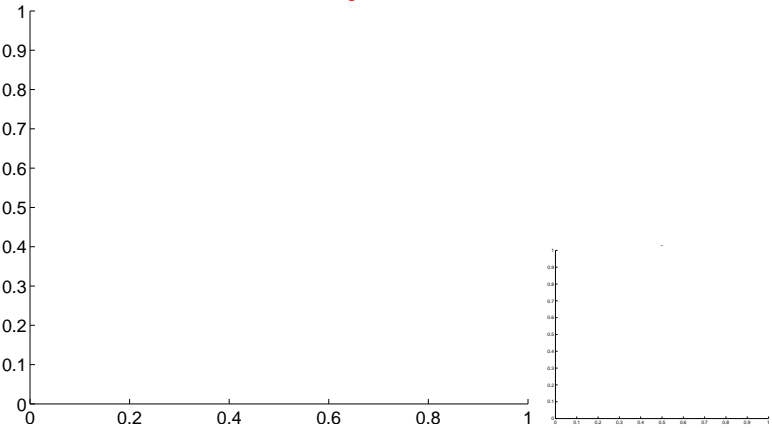


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

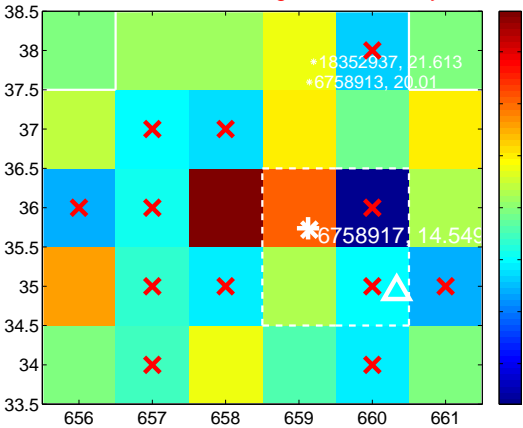
Q9 no difference image



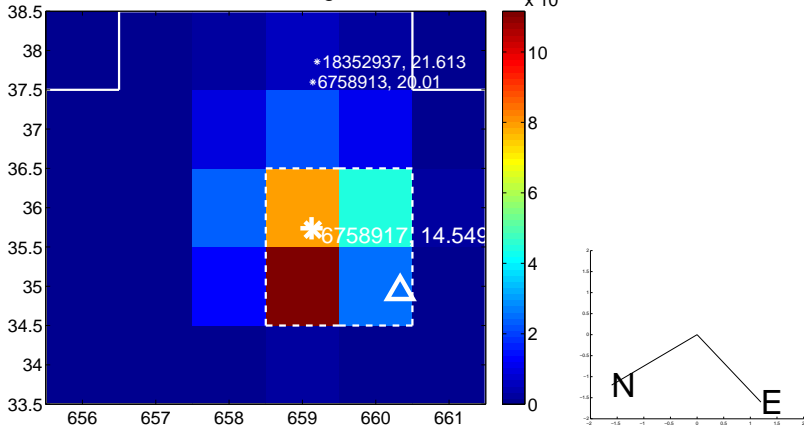
Q9 no OOT image



Q10 difference image. Poor Quality



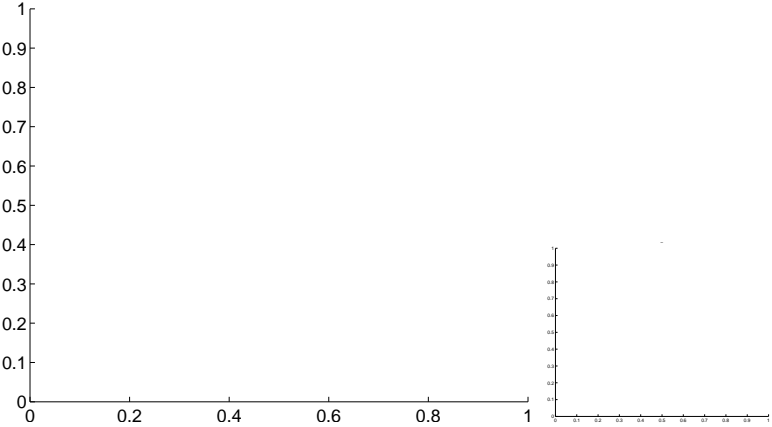
Q10 OOT image



Q11 no difference image



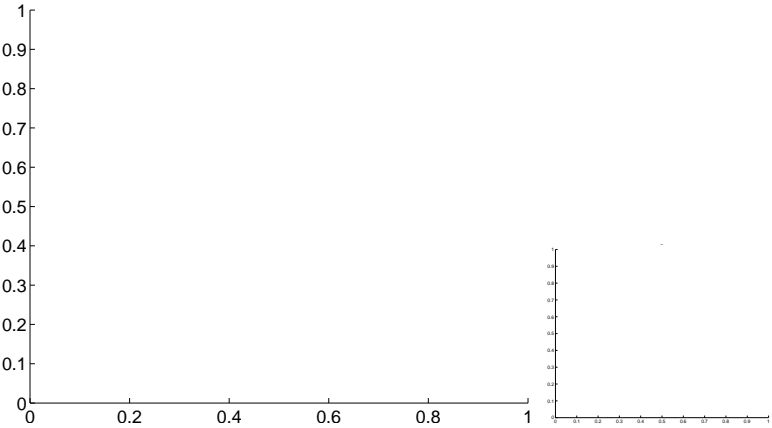
Q11 no OOT image



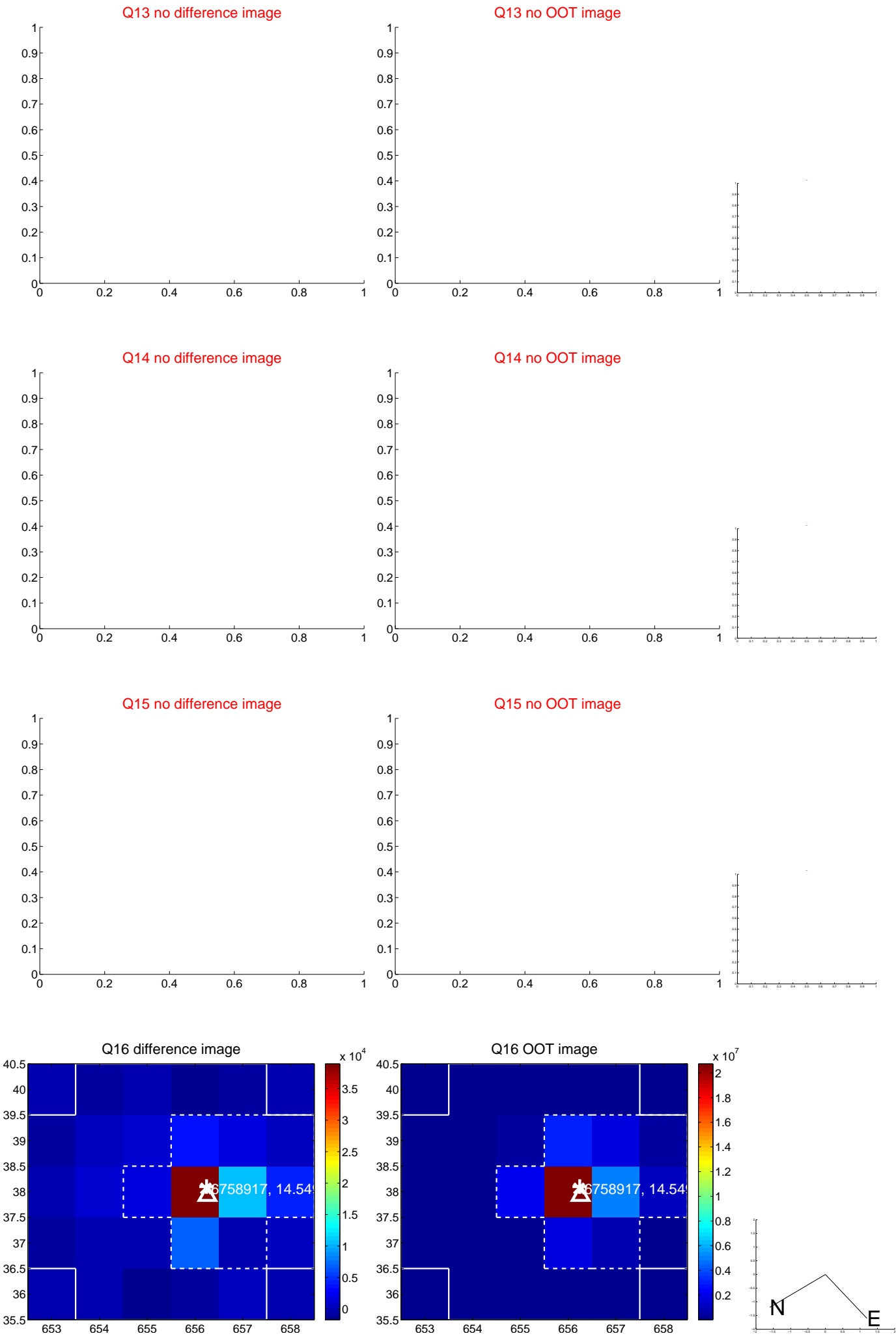
Q12 no difference image



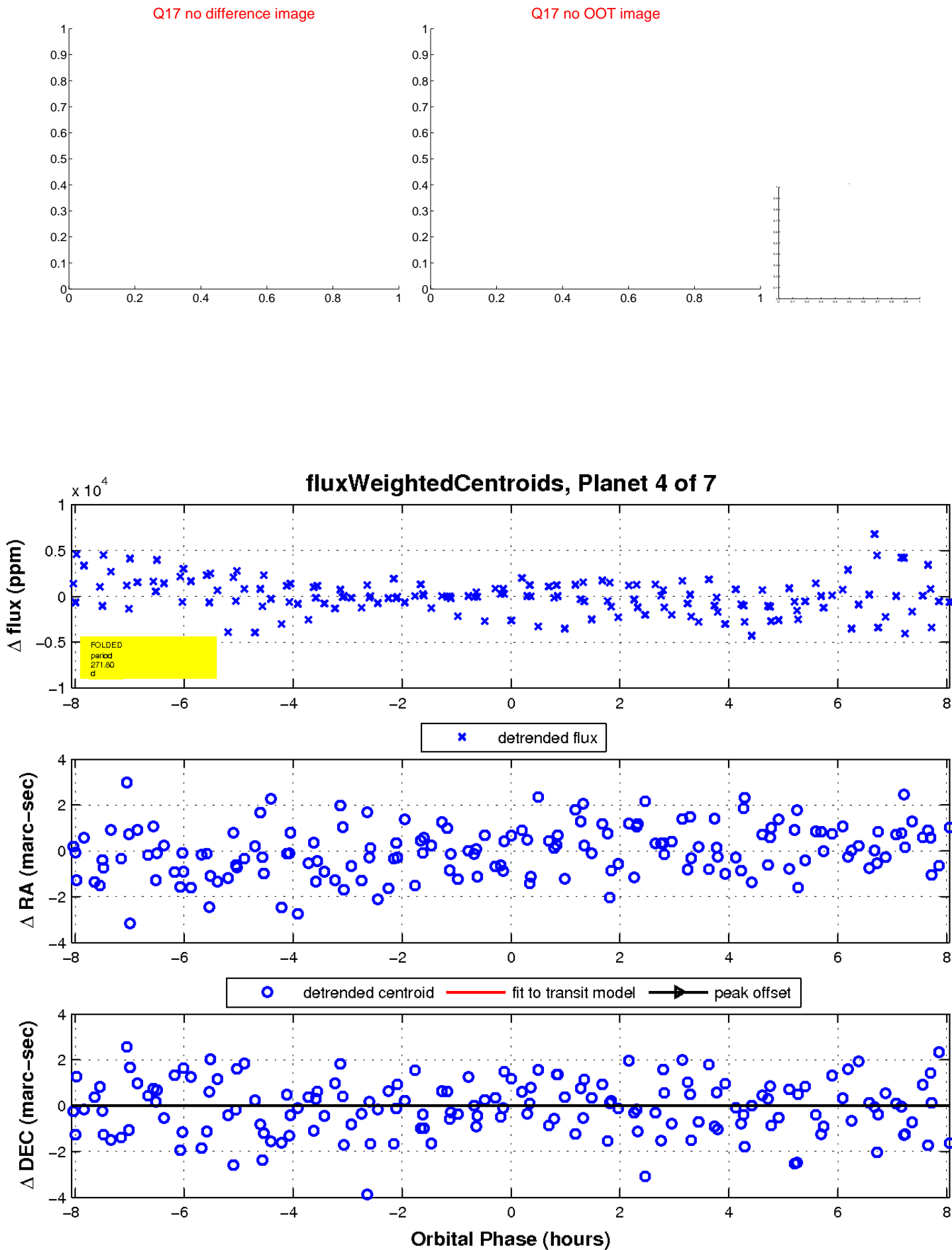
Q12 no OOT image



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

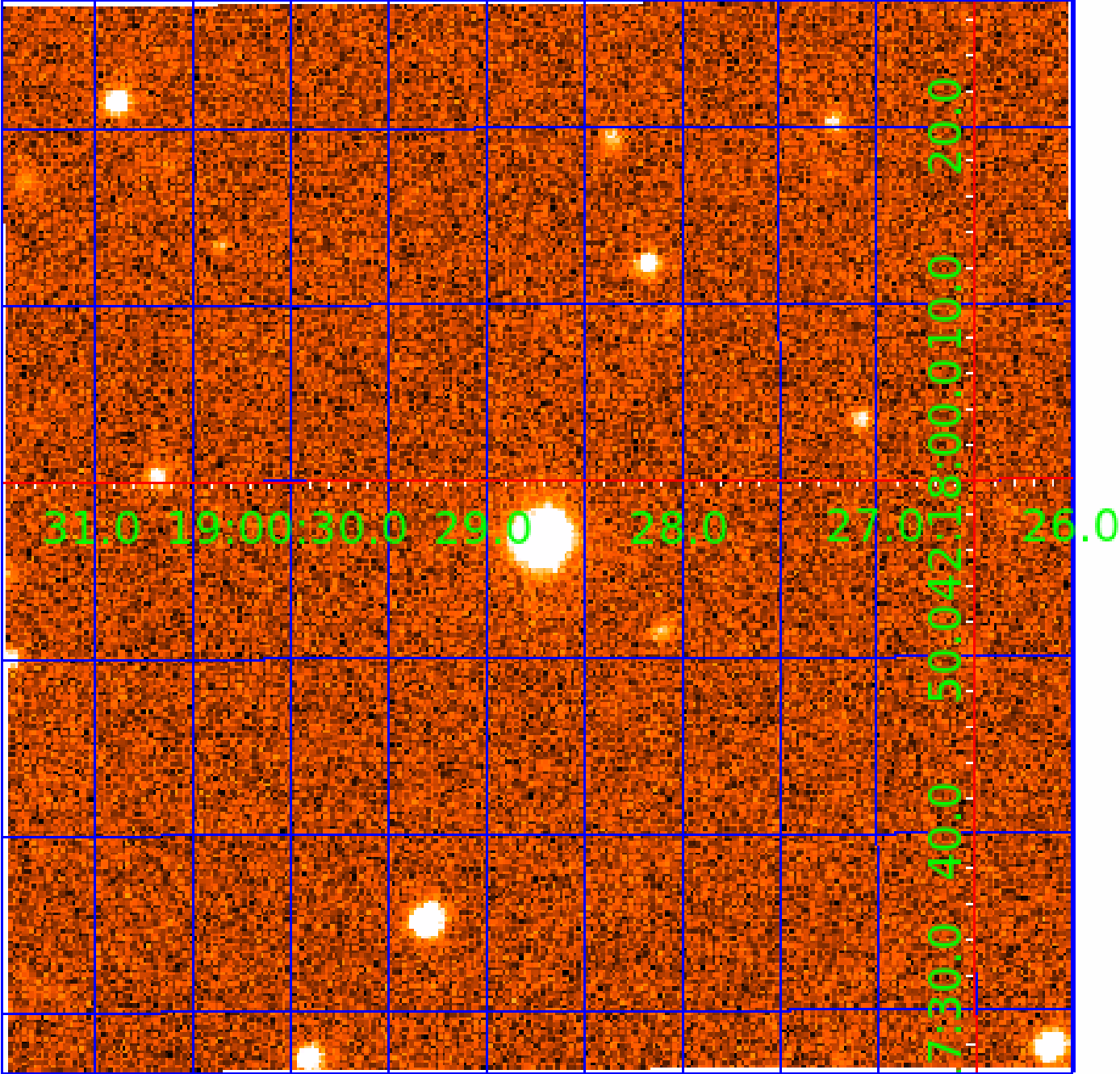


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

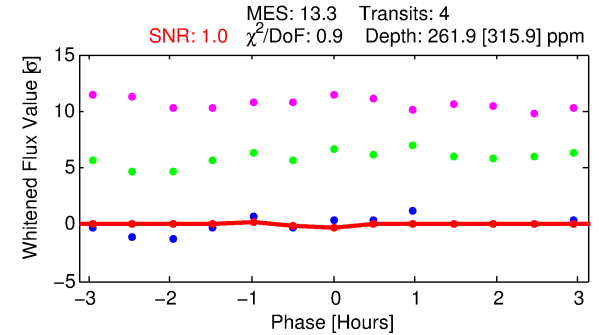
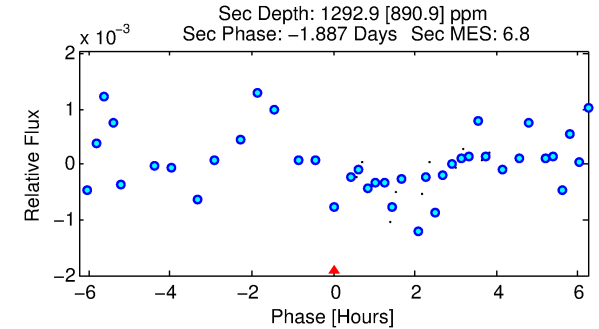
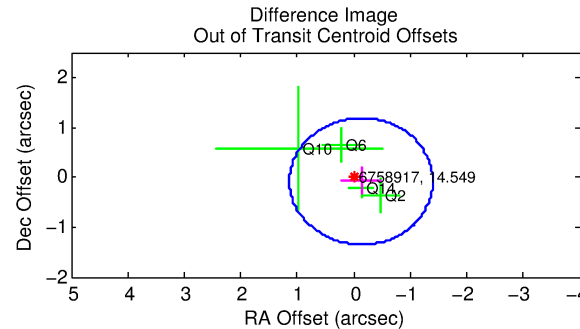
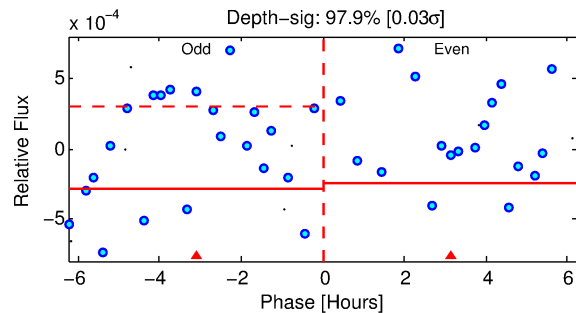
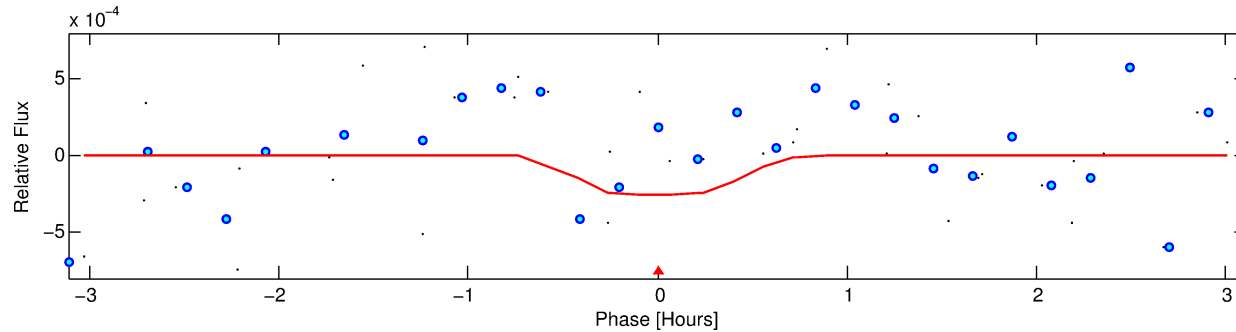
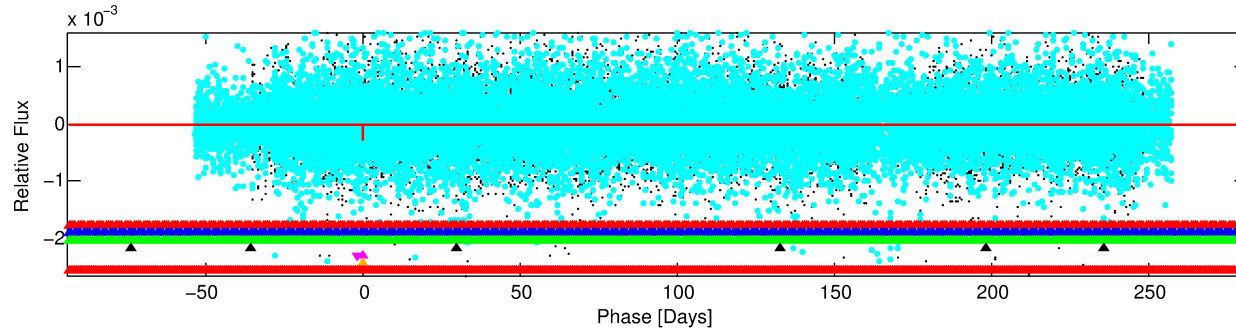
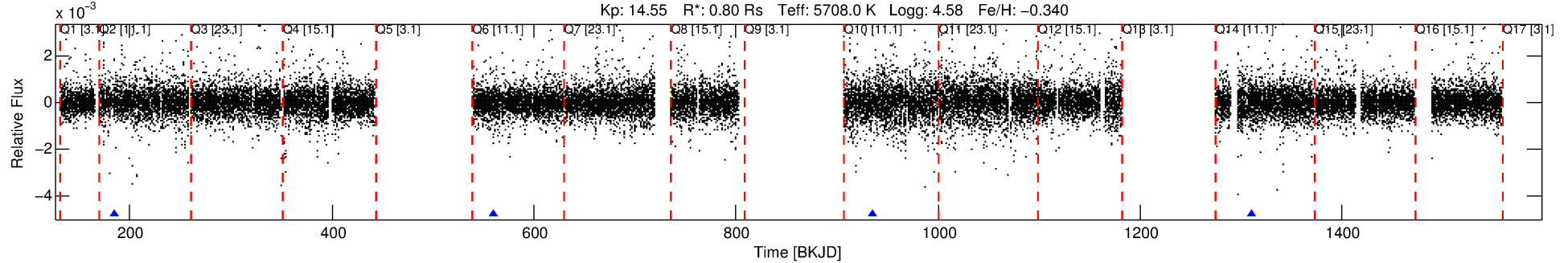
Ephemeris Match Information For 006758917-05

No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 5 of 7 Period: 374.922 d
KOI: K00453 Corr: No Ephemeris Match

Kp: 14.55 R*: 0.80 Rs Teff: 5708.0 K Logg: 4.58 Fe/H: -0.340



DV Fit Results:

Period = 374.92231 [0.01308] d
Epoch = 185.0612 [0.0241] BKJD
Rp/R* = 0.0150 [0.2118]
a/R* = 2660.28 [169386.45]
b = 0.32 [183.48]
Seff = 0.64 [0.21]
Teq = 228 [19] K
Rp = 1.31 [18.37] Re
a = 0.9725 [0.2103] AU
Ag = 394741.85 [11113955.25] [0.04σ]
Teffp = 8823 [62102] K [0.14σ]

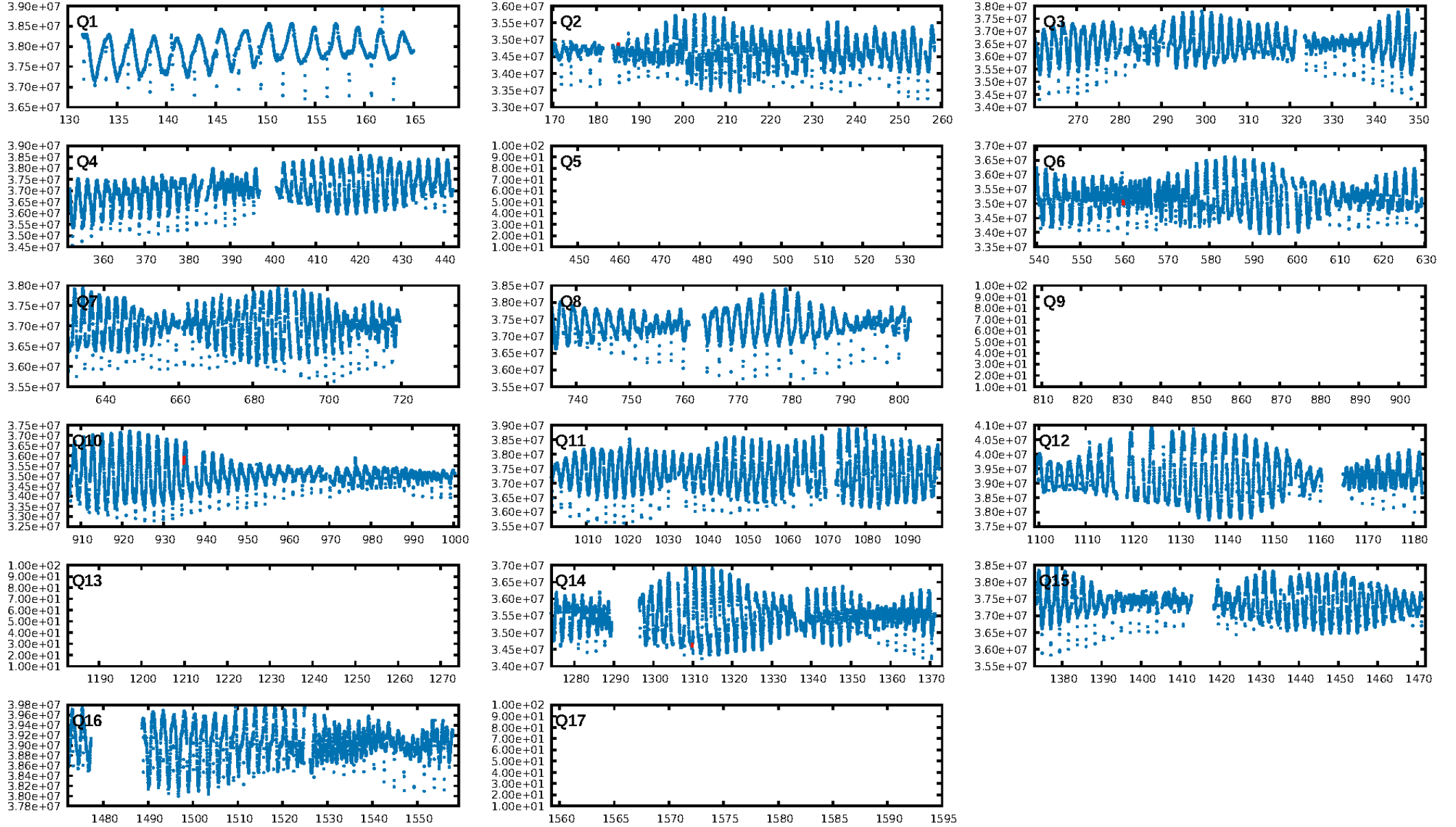
DV Diagnostic Results:

ShortPeriod-sig: 4.3% [0.05σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 62.5%
ModelChiSquareGof-sig: 99.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.3296
Centroid-sig: N/A
Centroid-so: 6.213 arcsec [1.18σ]
OotOffset-rm: 0.155 arcsec [0.37σ]
OotOffset-st: 4/0/0/0 [4]
KicOffset-rm: 0.239 arcsec [0.60σ]
KicOffset-st: 4/0/0/0 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 0.00 [0/4]

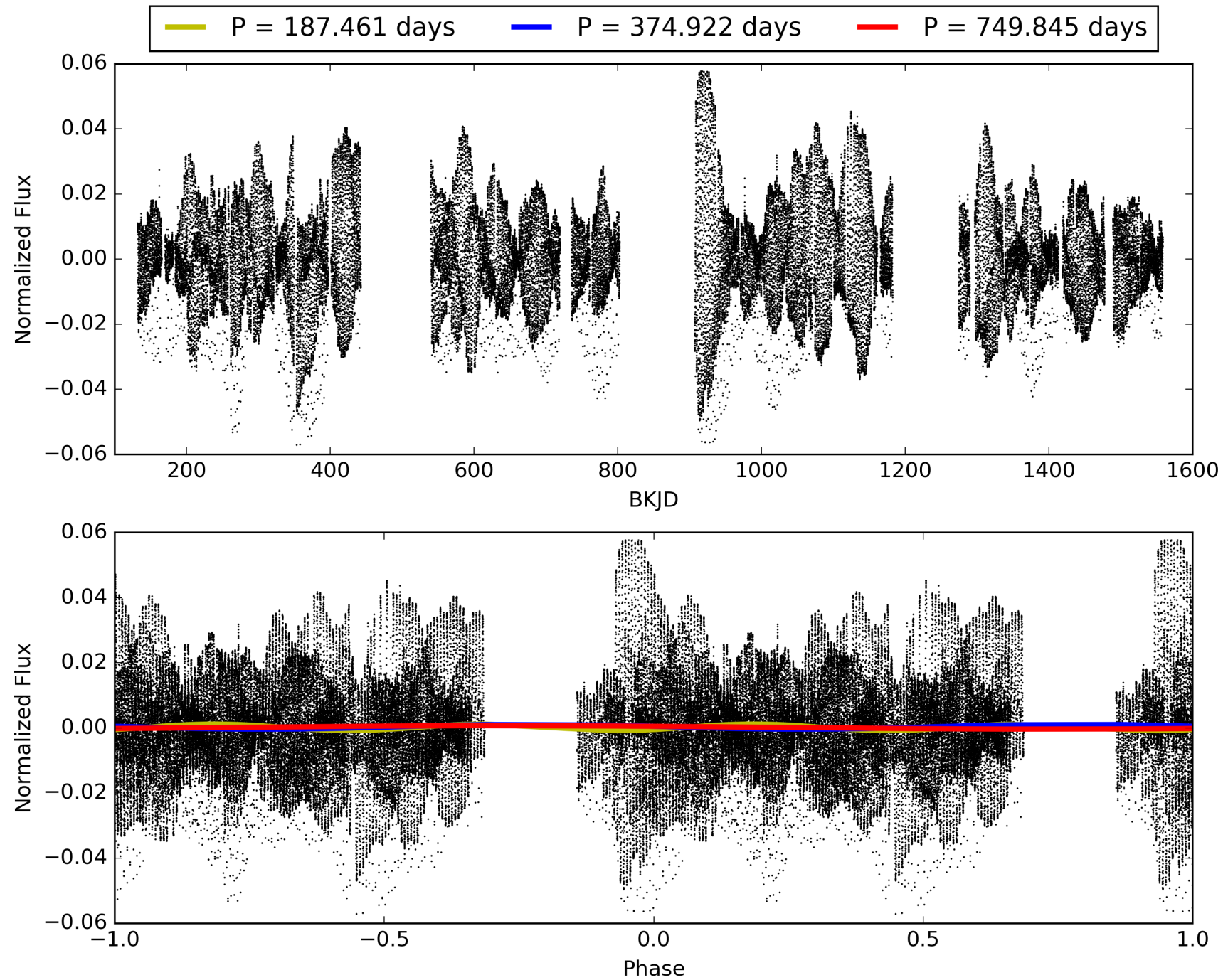
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:18:39 Z

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

TCE 006758917-05, PDC Light Curves

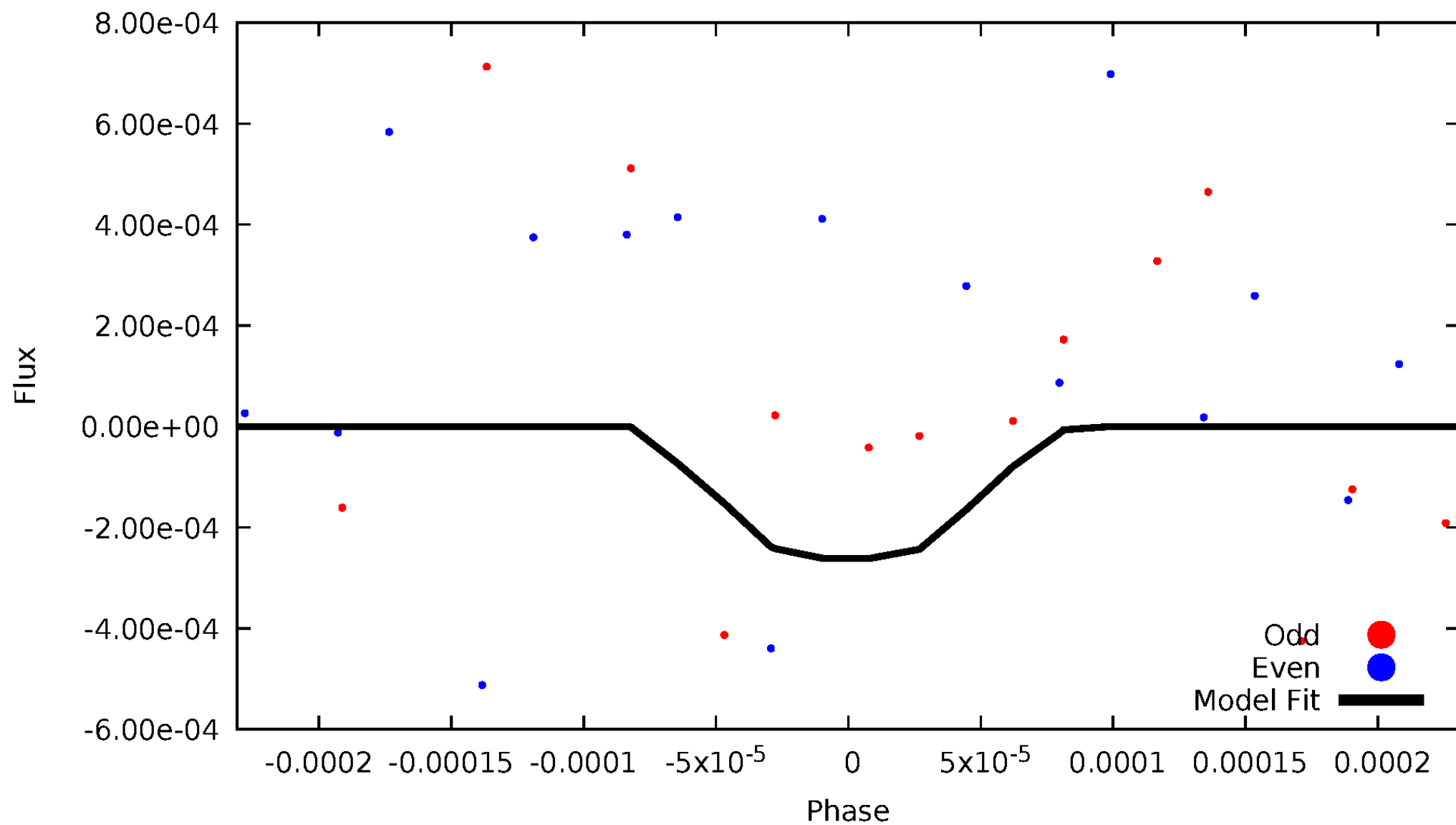


TCE 006758917-05



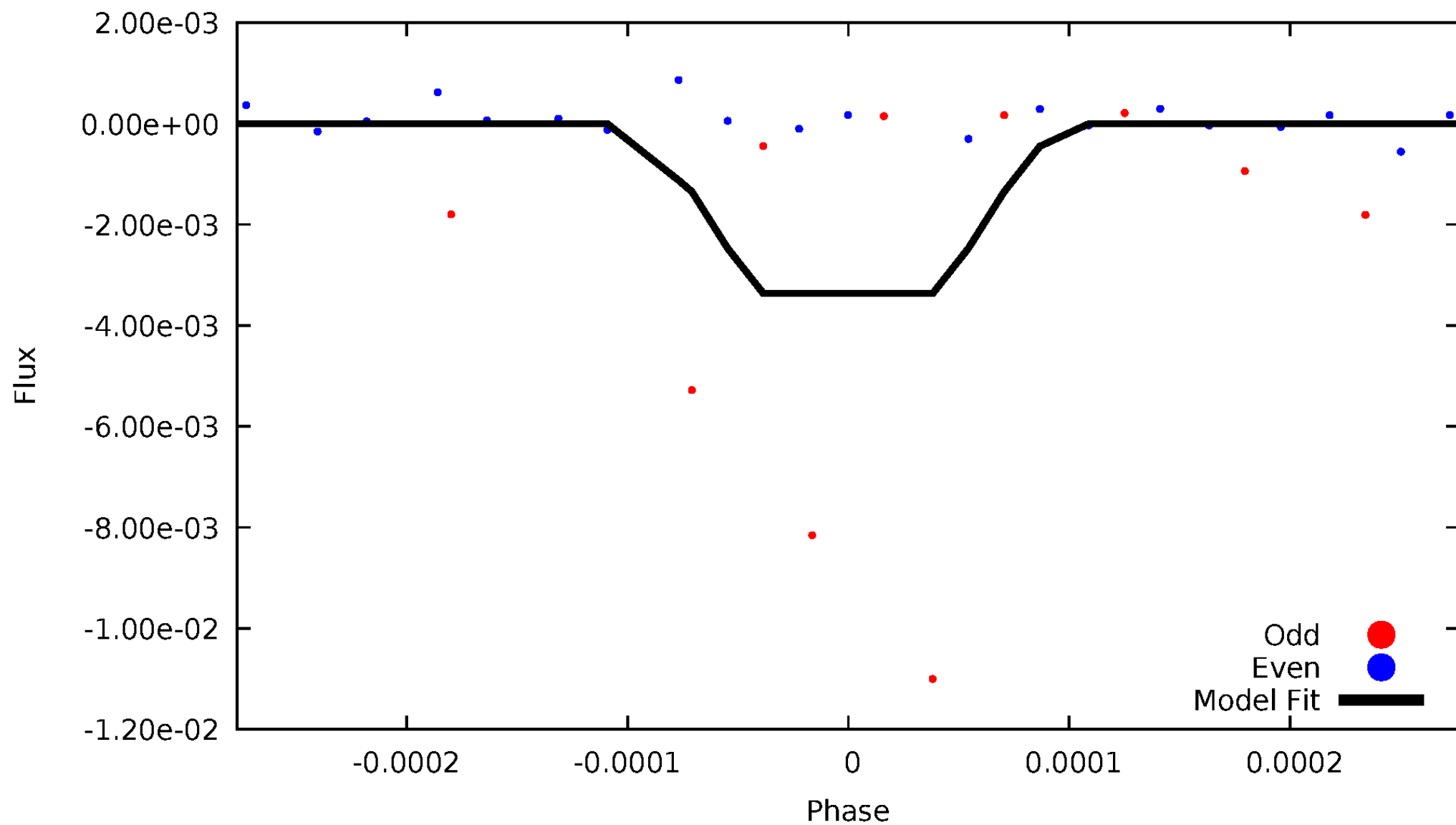
DV Odd/Even

TCE 006758917-05



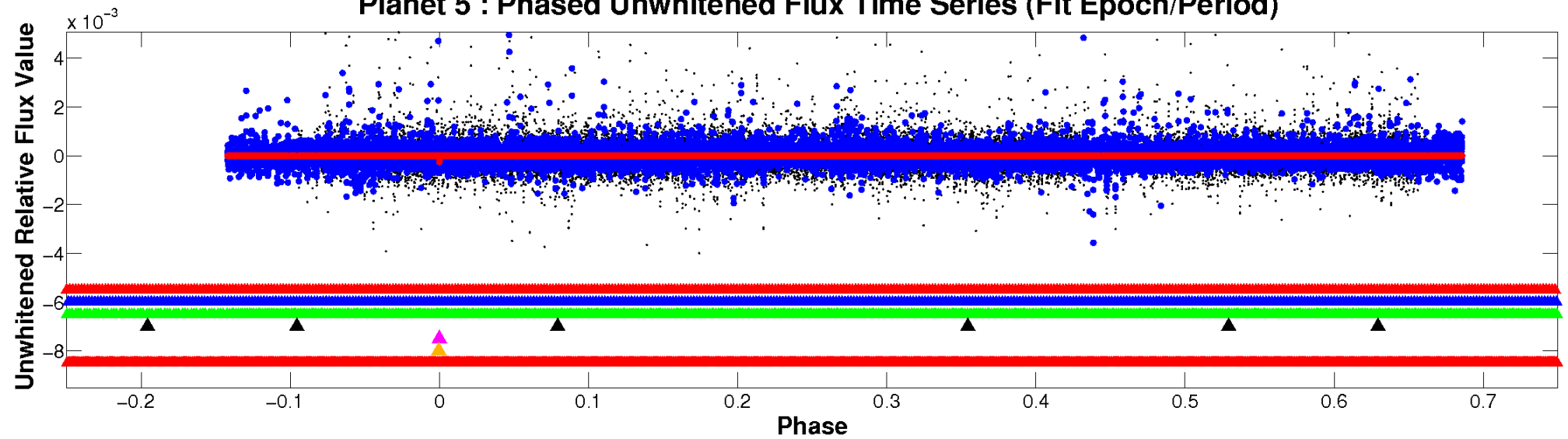
ALT Odd/Even

TCE 006758917-05

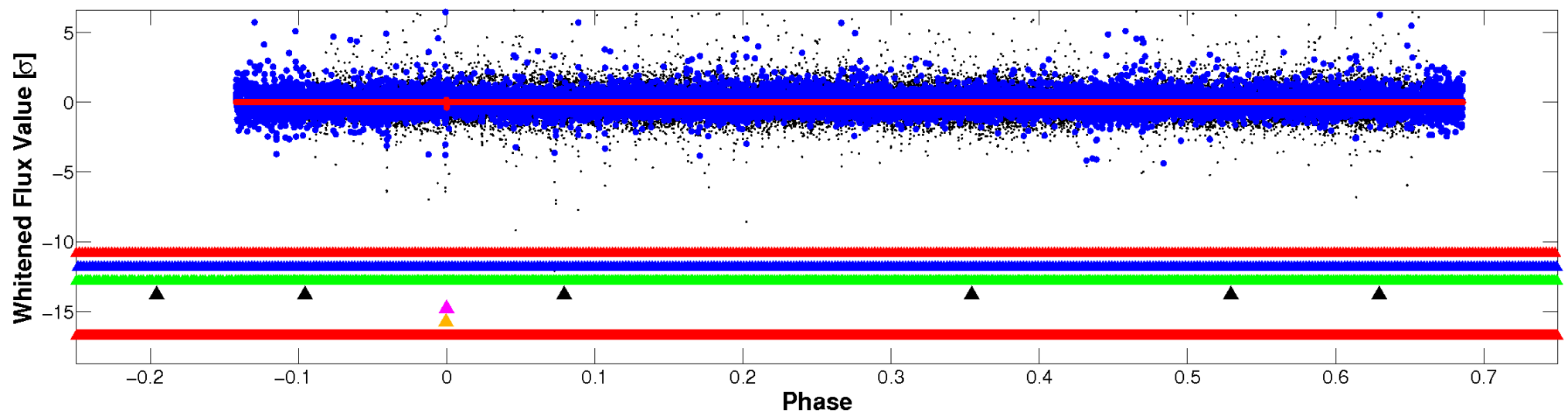


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

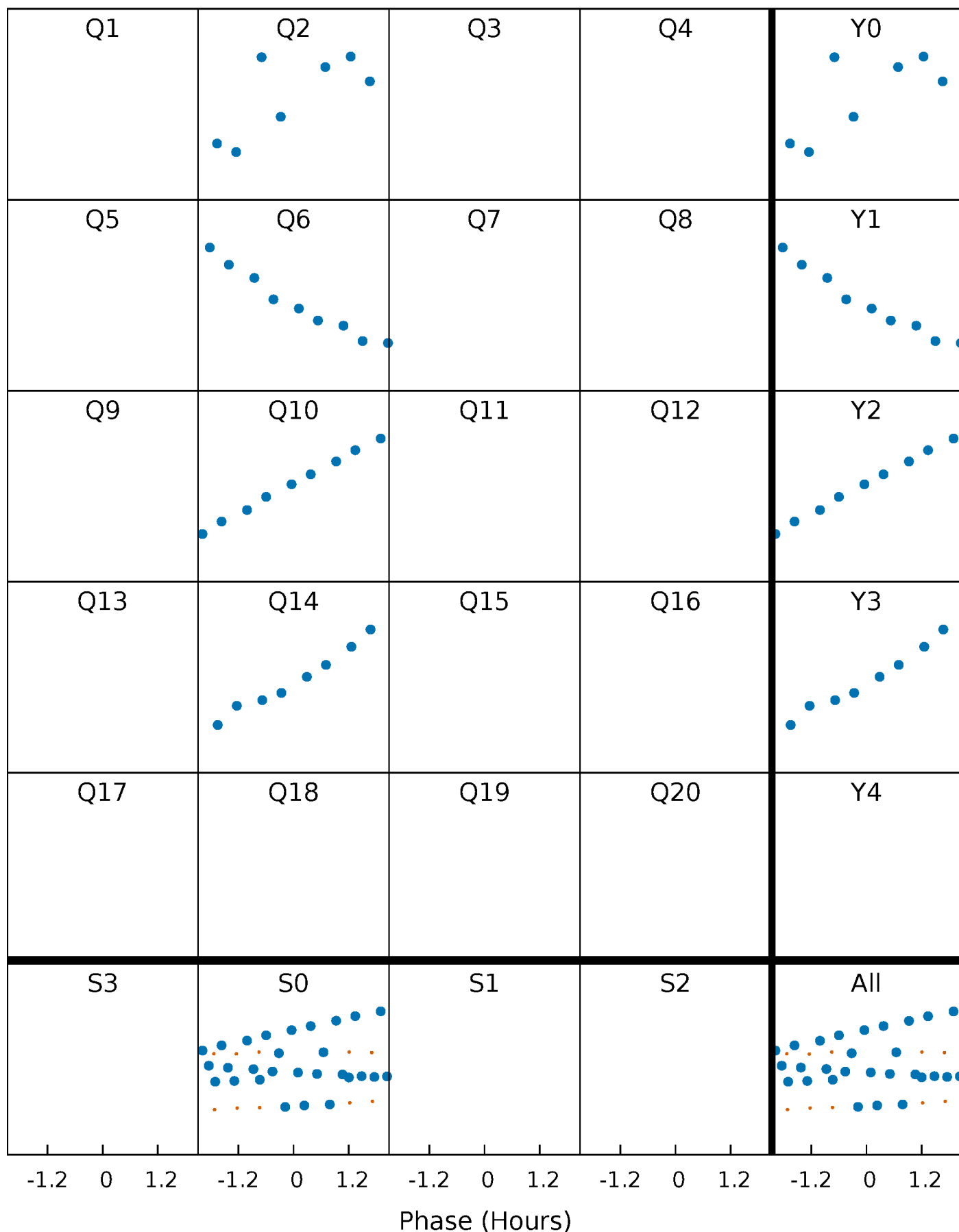


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



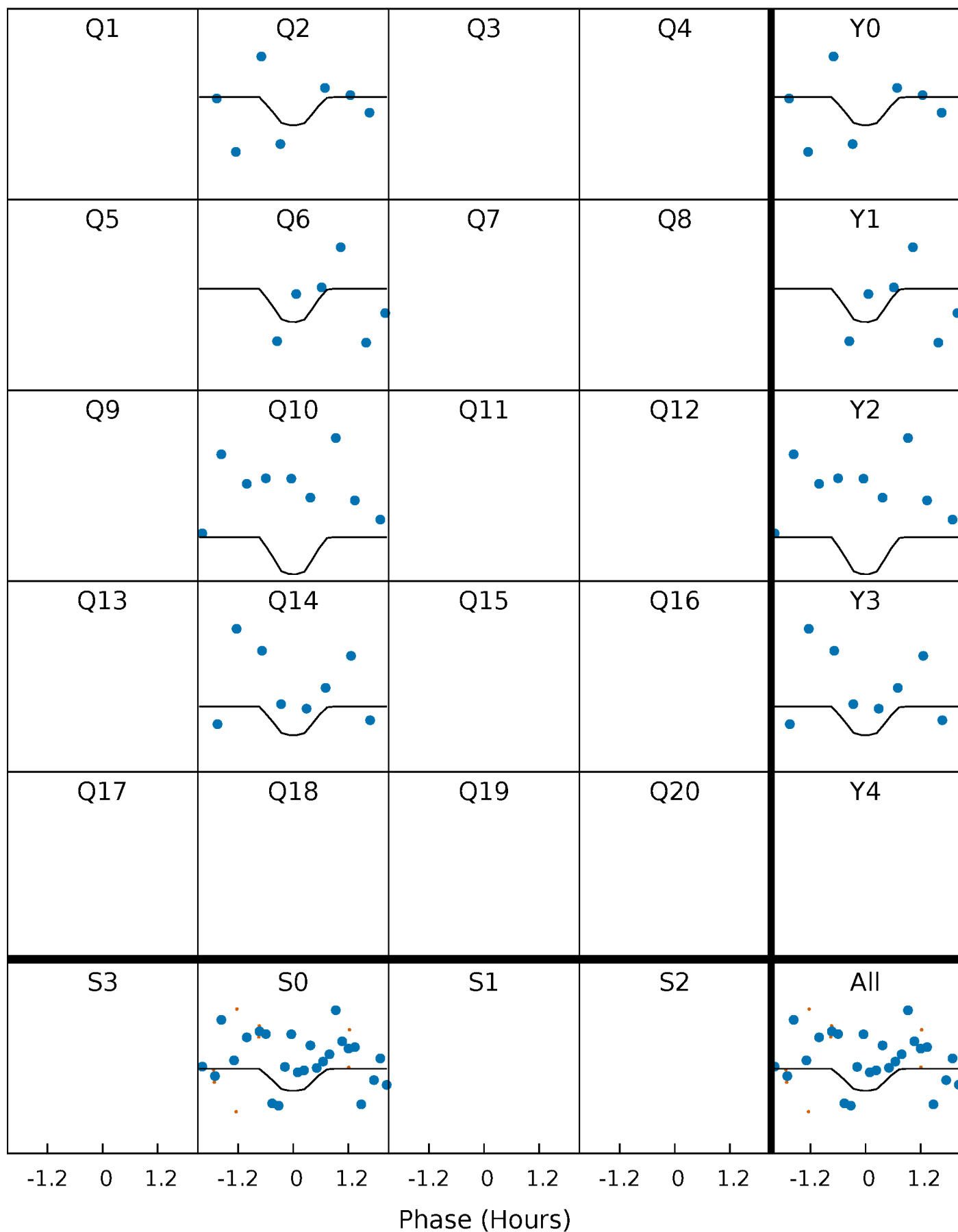
PDC Quarter-Phased Transit Curves

TCE 006758917-05 P=374.922311 Days $T_0=185.061240$ (BKJD)



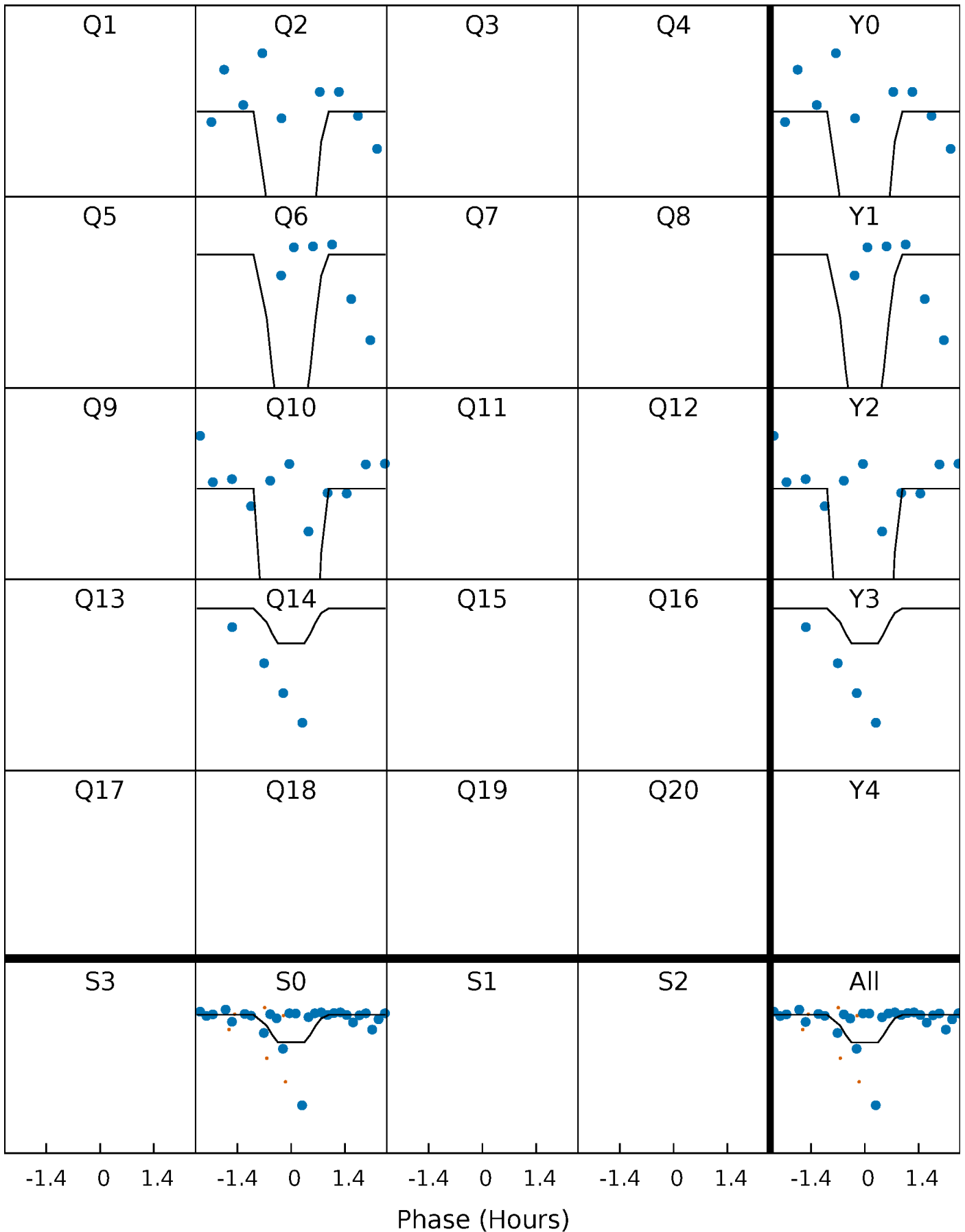
DV Quarter-Phased Transit Curves

TCE 006758917-05 P=374.922311 Days $T_0=185.061240$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

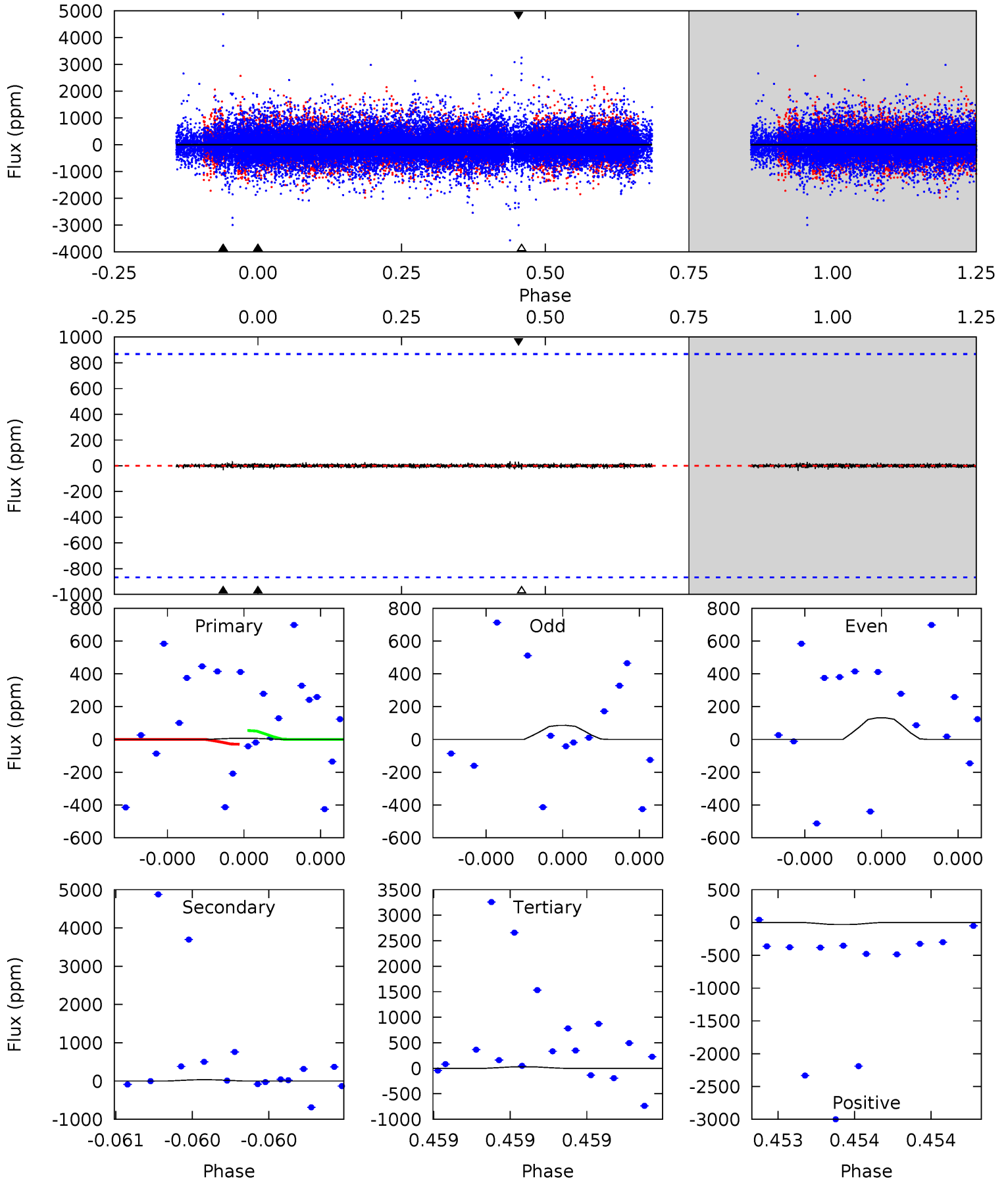
TCE 006758917-05 $P=374.921770$ Days $T_0=185.058635$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-05, P = 374.922311 Days, E = 185.061240 Days

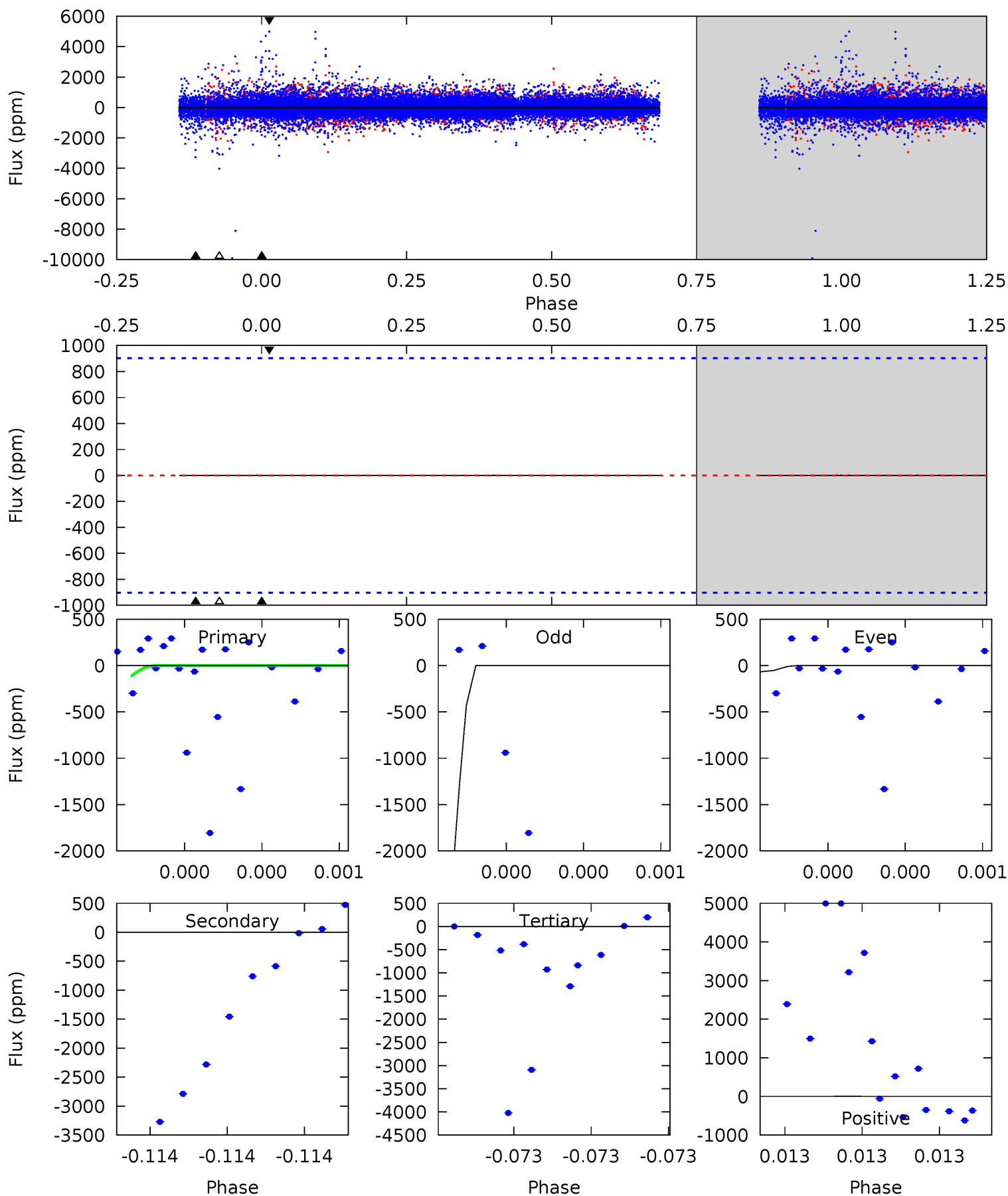
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.04	0.22	0.19	0.21	5.76	3.77	0.04	-0.14	-0.16	0.04	0.02	0.15	0.50	0.48	0.08



Alt Model-Shift Uniqueness Test

006758917-05, P = 374.921770 Days, E = 185.058635 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	5.75	3.75	0.00	0	0	0	0	6.13	46.1	0.64	0.31



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-34 ± 151	$13.38^{+14.49}_{-9.47}$	325^{+19}_{-13}	2001^{+812}_{-4534}	58^{+1026}_{-590}
Alt.	-1 ± 157	$15.35^{+15.45}_{-10.68}$	326^{+20}_{-14}	1666^{+1000}_{-4199}	$8.841^{+681.000}_{-484.205}$

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 $A_{obs} \gg 1.0$

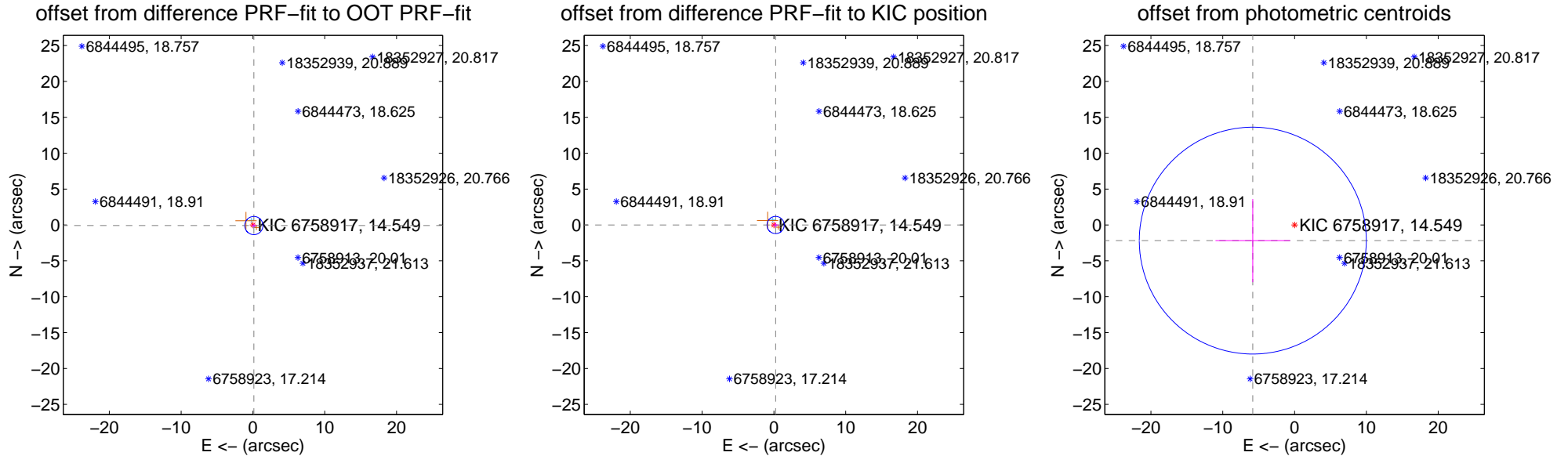
DV Centroid Data

Supplemental centroid analysis for 006758917-05. Kepler magnitude: 14.55. Transit SNR 0.96

There are 2 quarters with good PRF difference image offsets

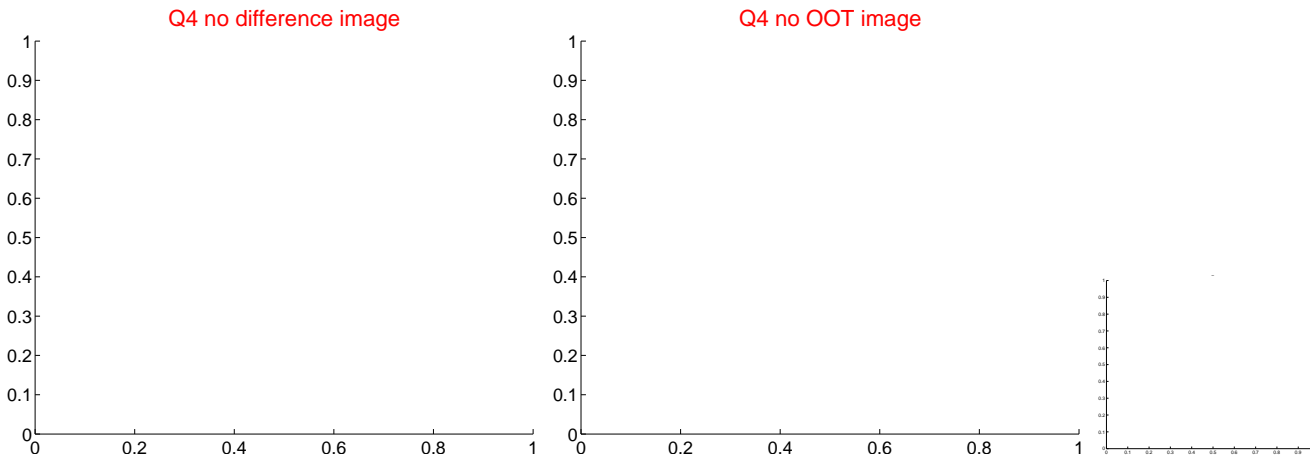
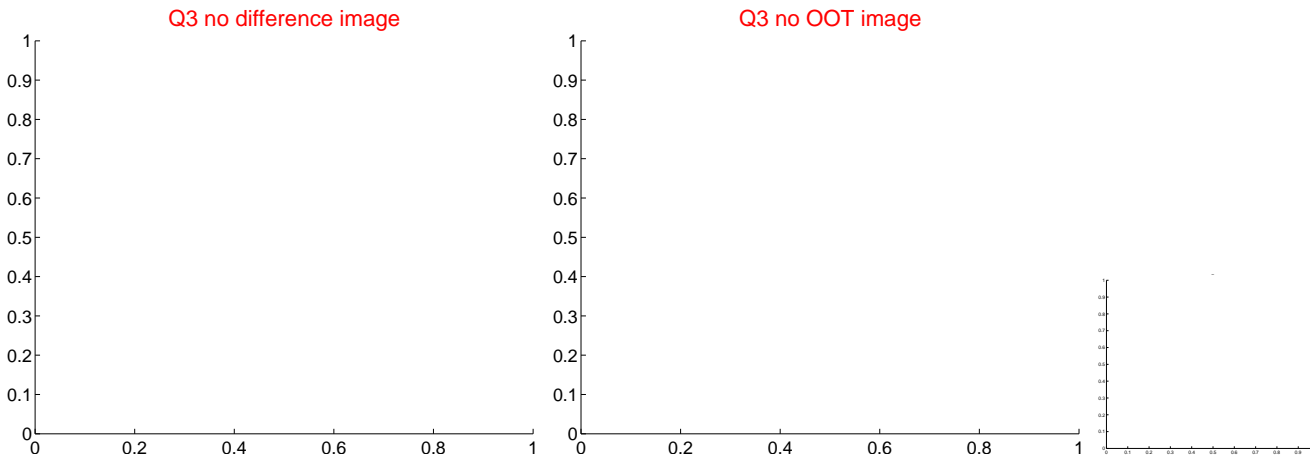
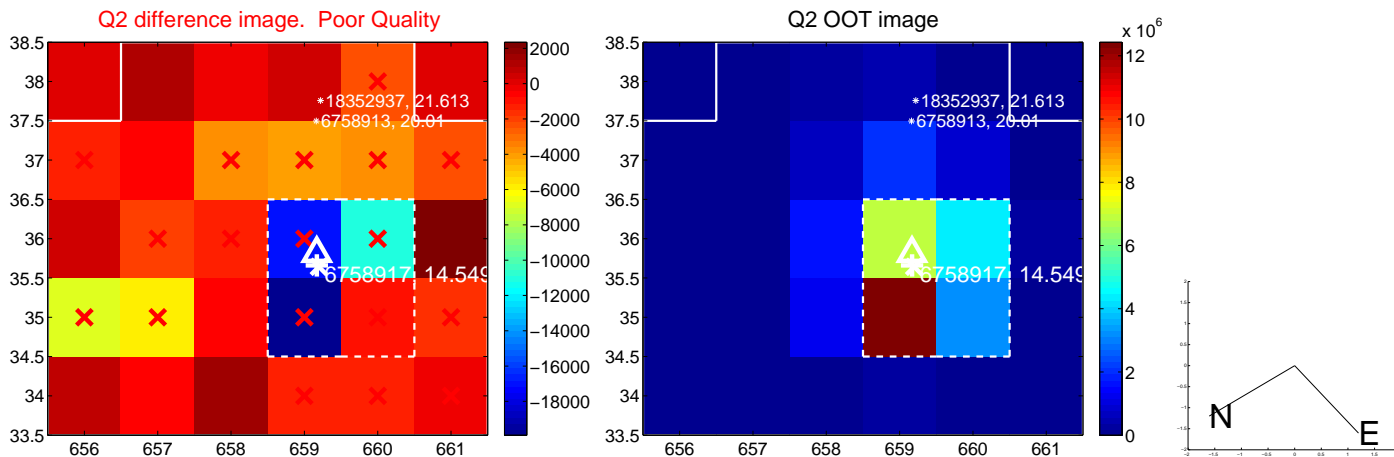
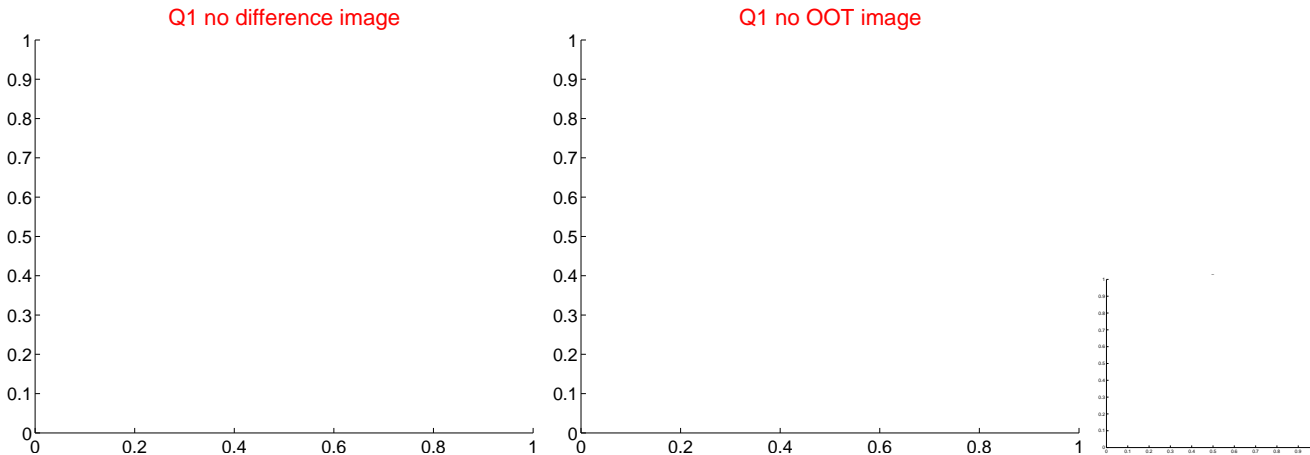
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.155 ± 0.422	0.37	-0.130 ± 0.351	-0.085 ± 0.262
PRF-fit source offset from KIC position	0.239 ± 0.399	0.60	-0.239 ± 0.399	-0.008 ± 0.344
photometric centroid source offset	6.21 ± 5.27	1.18	5.82 ± 5.19	-2.18 ± 5.79

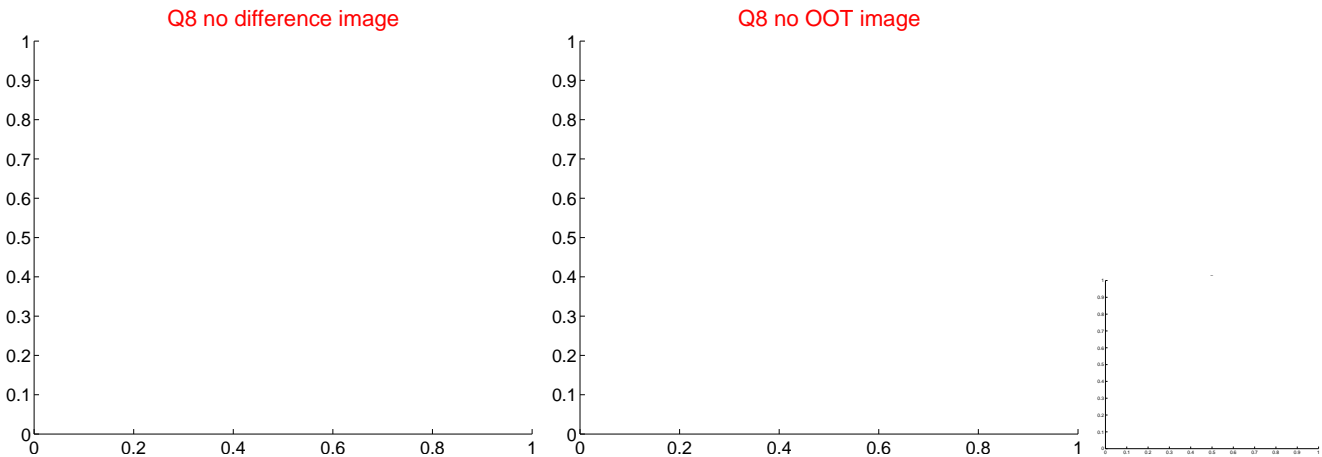
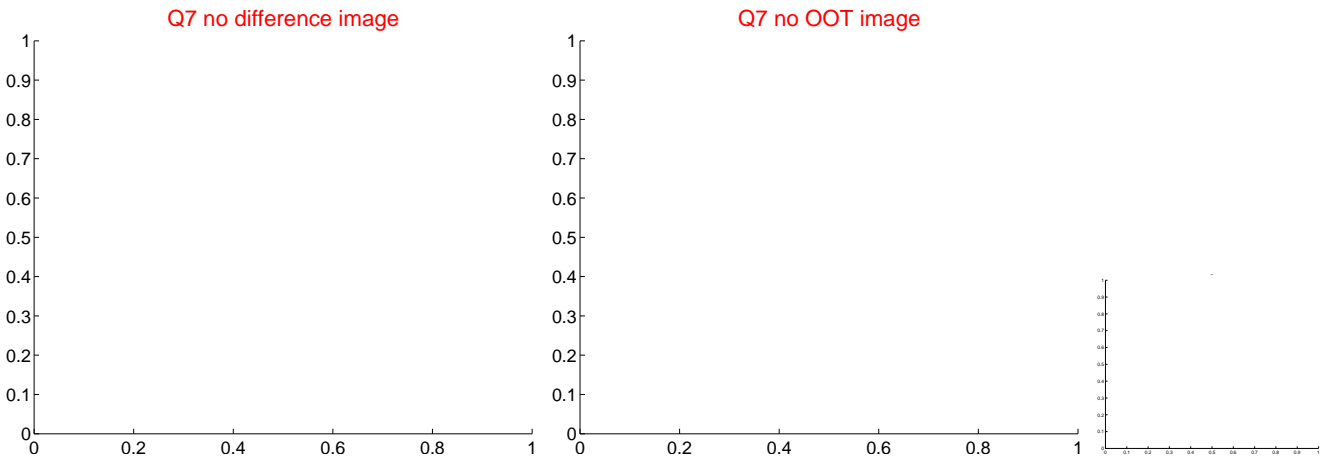
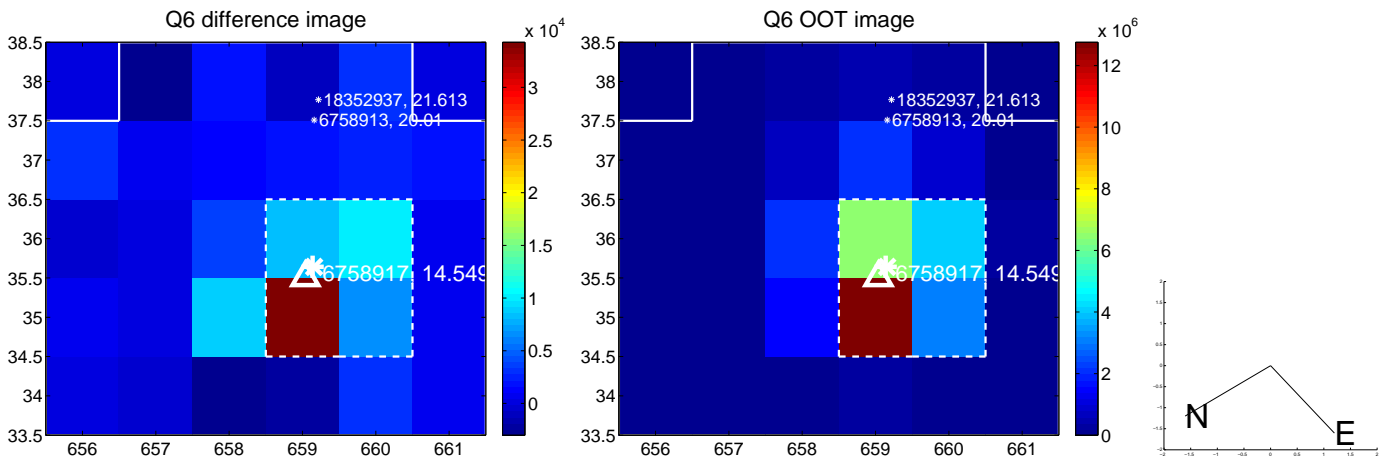
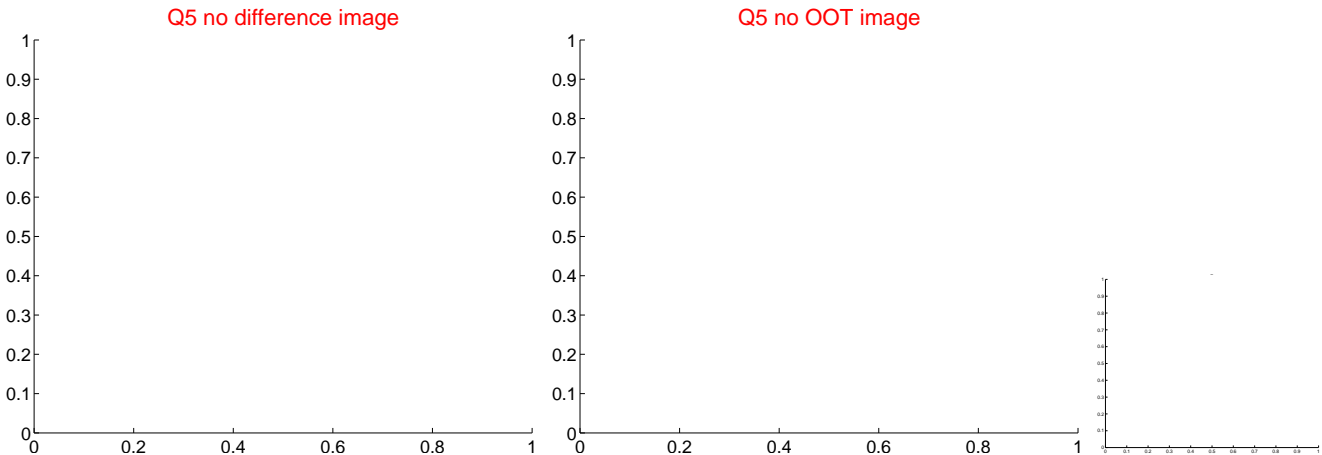


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

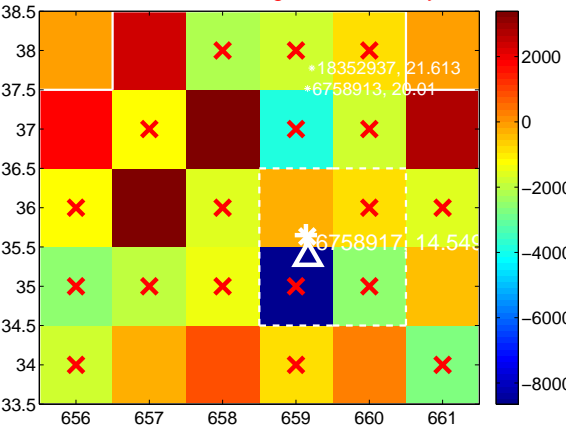
Q9 no difference image



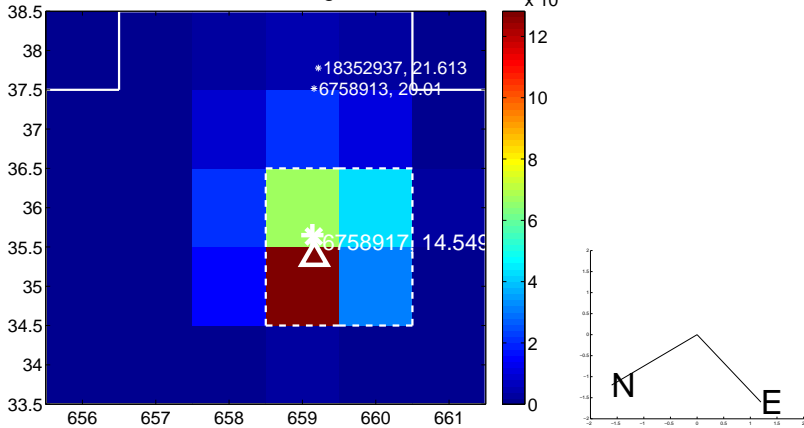
Q9 no OOT image



Q10 difference image. Poor Quality



Q10 OOT image



Q11 no difference image



Q11 no OOT image



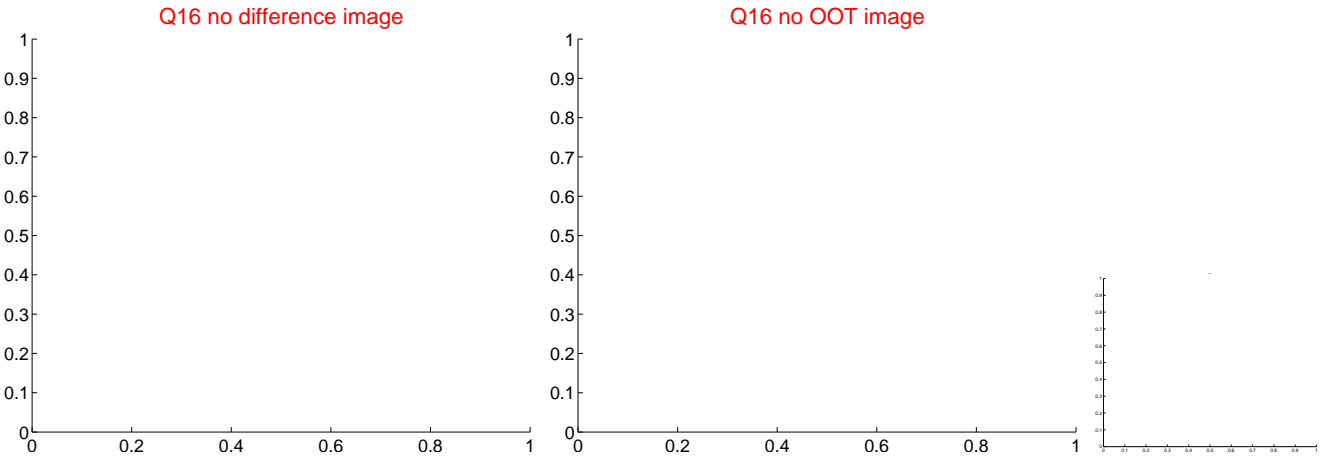
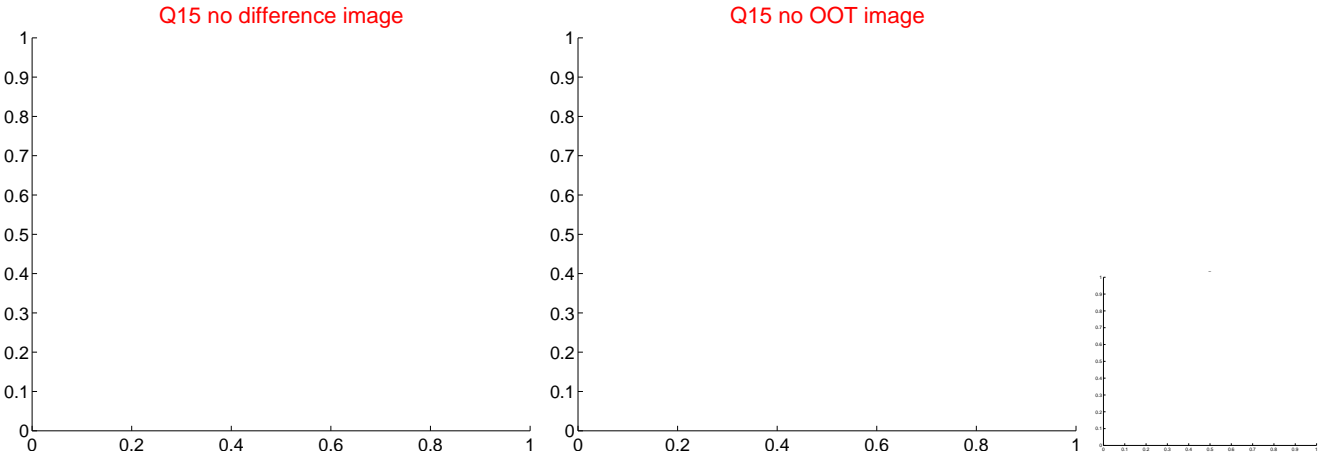
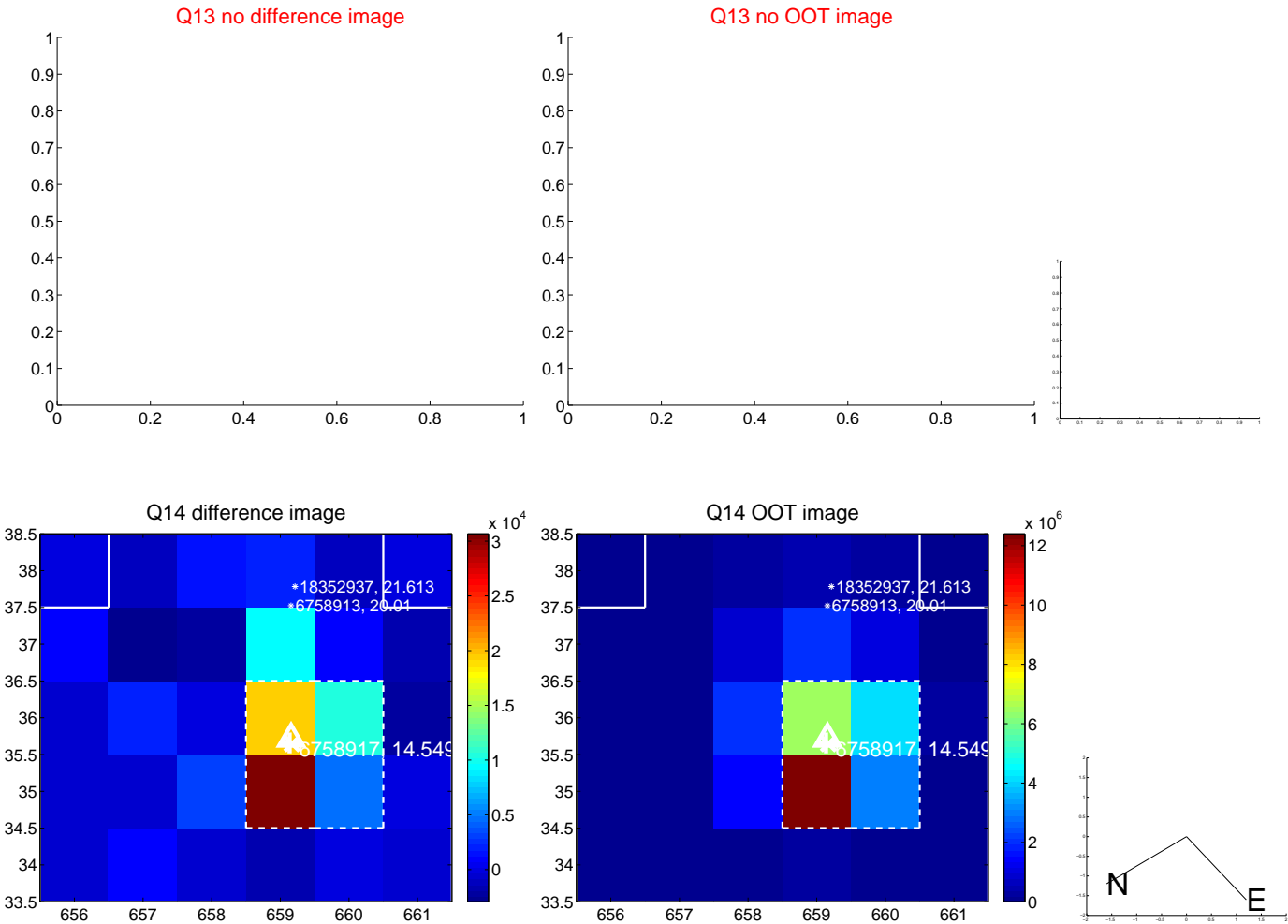
Q12 no difference image



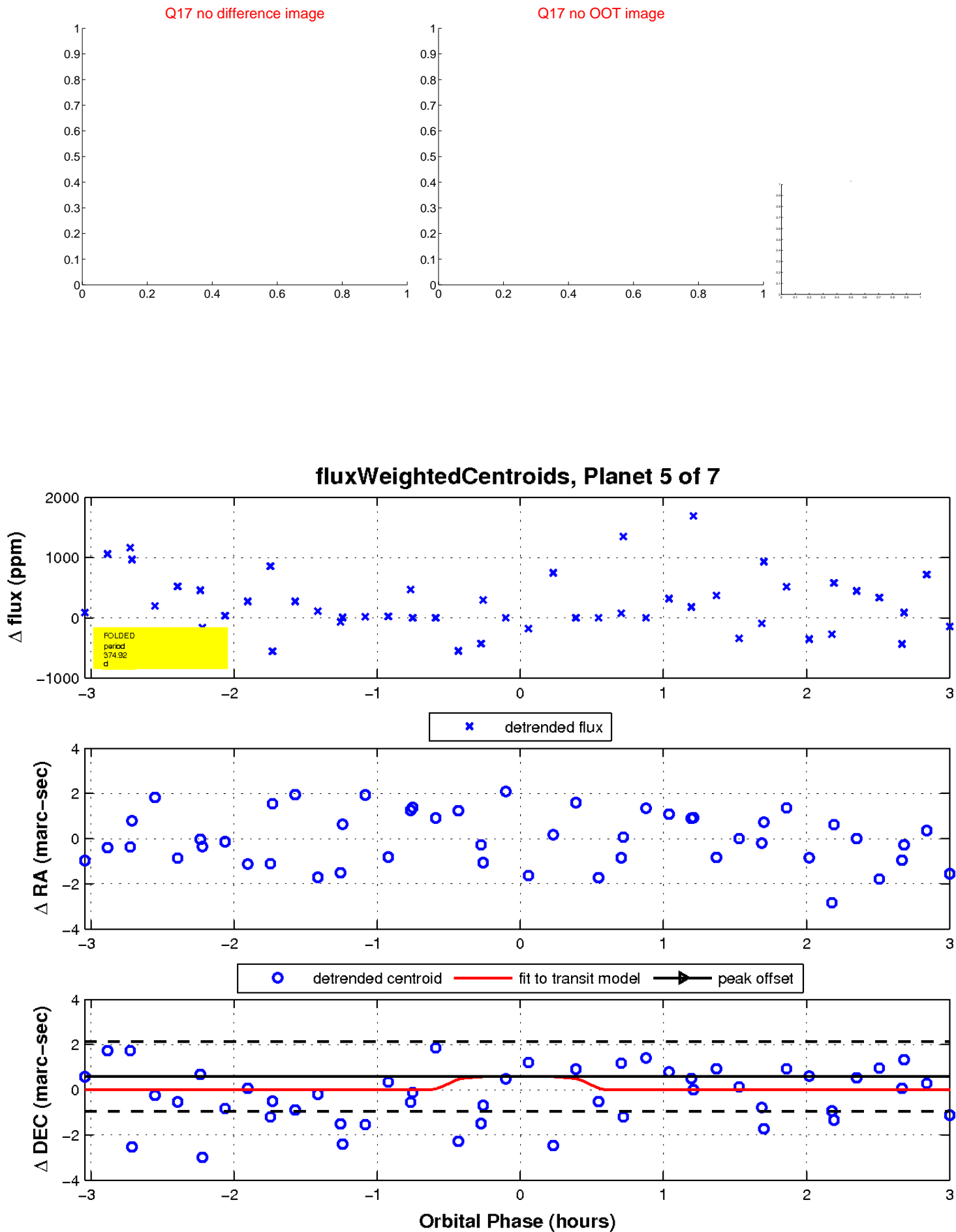
Q12 no OOT image



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

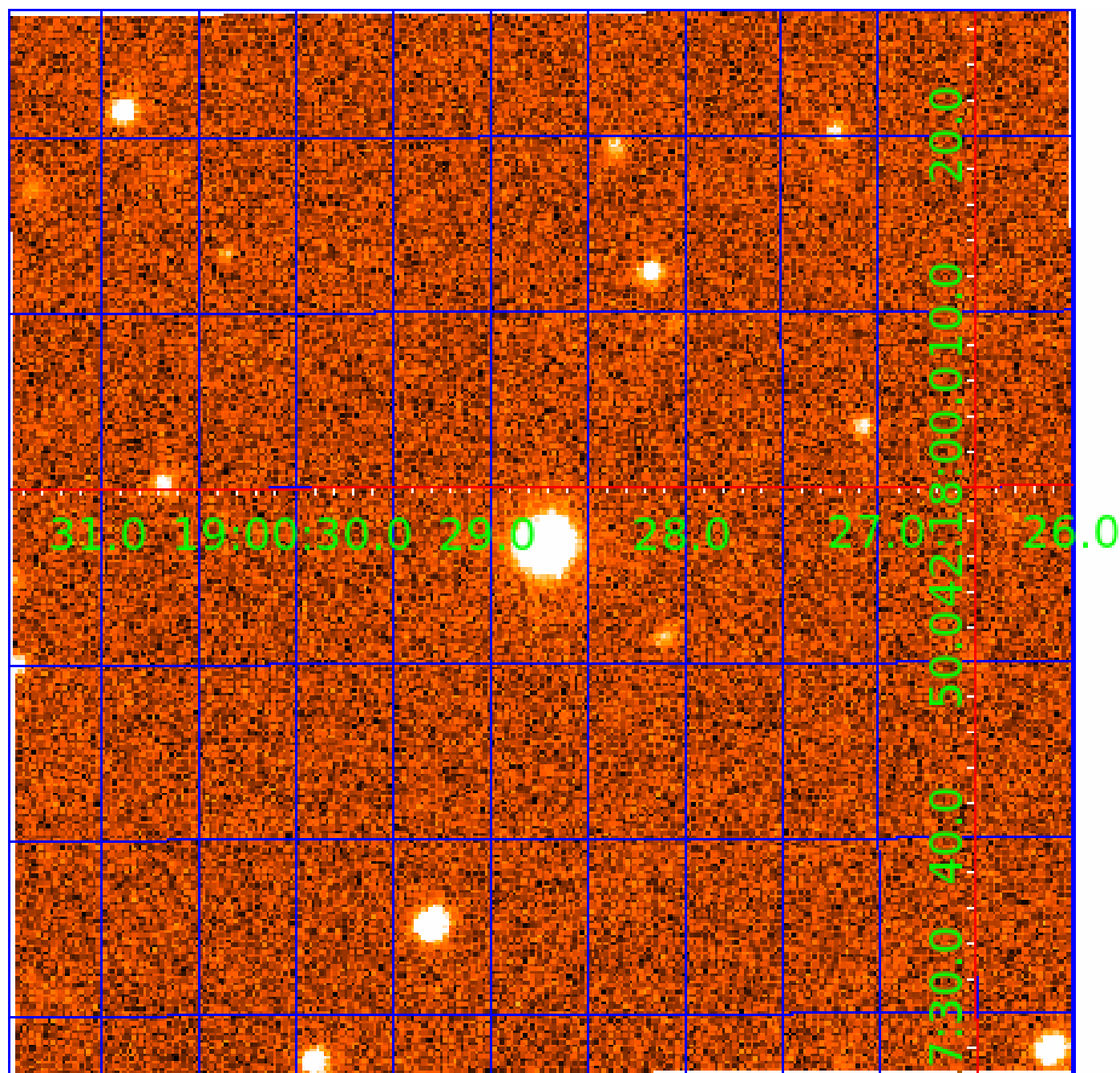


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

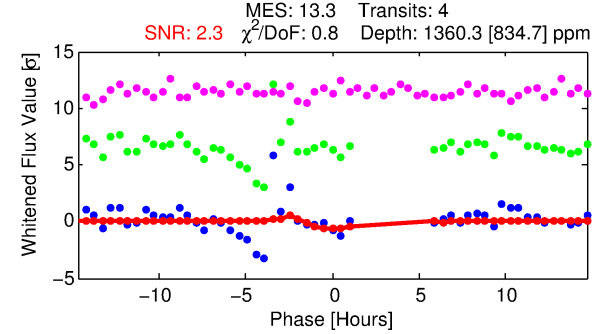
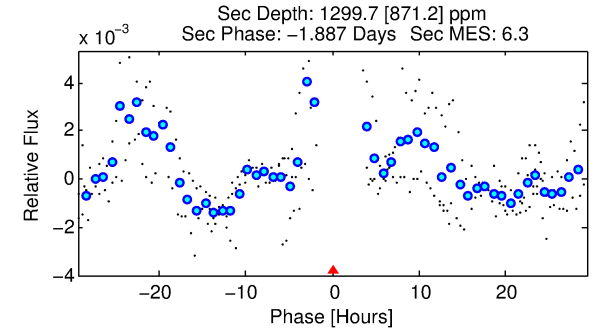
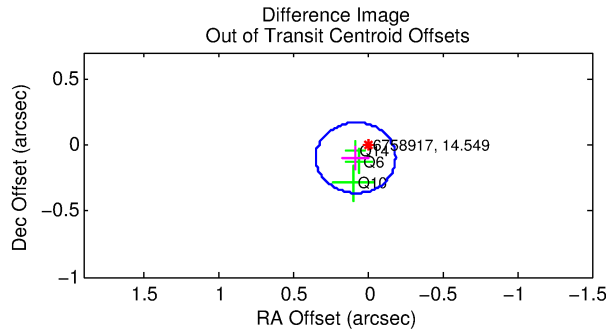
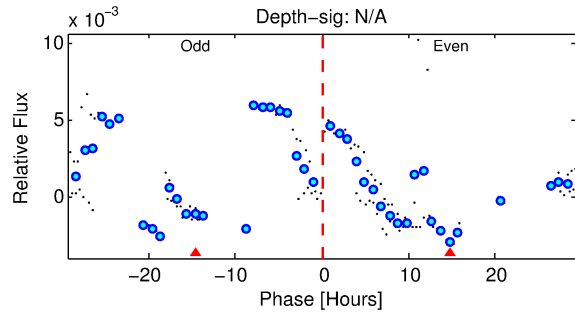
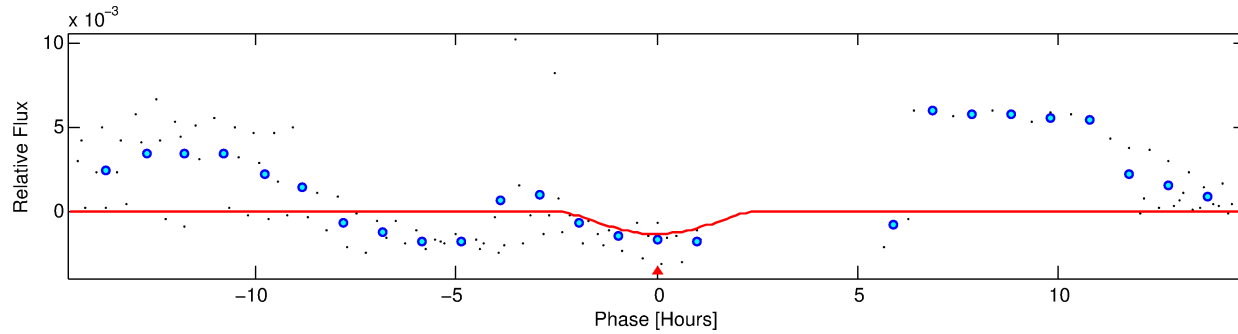
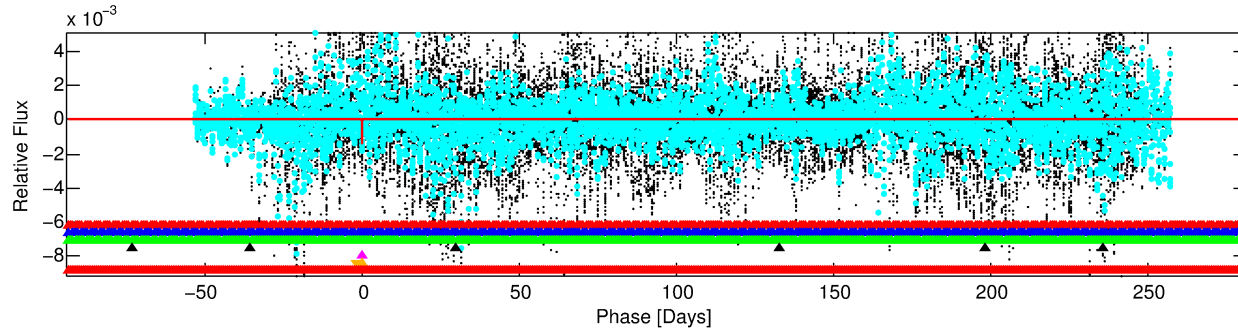
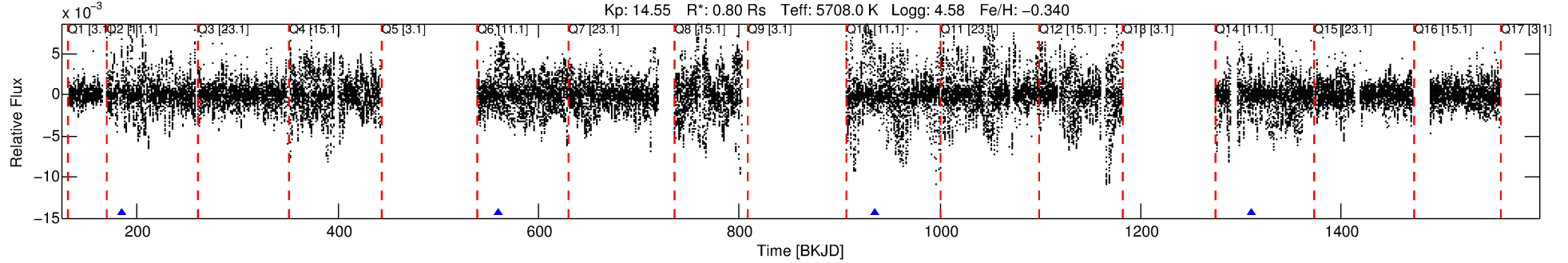
Ephemeris Match Information For 006758917-06

No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 6 of 7 Period: 374.911 d
KOI: K00453 Corr: No Ephemeris Match

Kp: 14.55 R*: 0.80 Rs Teff: 5708.0 K Logg: 4.58 Fe/H: -0.340



DV Fit Results:

Period = 374.91097 [0.01648] d
Epoch = 184.9368 [0.0464] BKJD
Rp/R* = 0.0621 [0.3766]
a/R* = 216.70 [336.87]
b = 1.00 [0.57]
Seff = 0.64 [0.21]
Teq = 228 [19] K
Rp = 5.39 [32.70] Re
a = 0.9725 [0.2103] AU
Ag = 23319.35 [283442.50] [0.08σ]
Teffp = 4350 [13215] K [0.31σ]

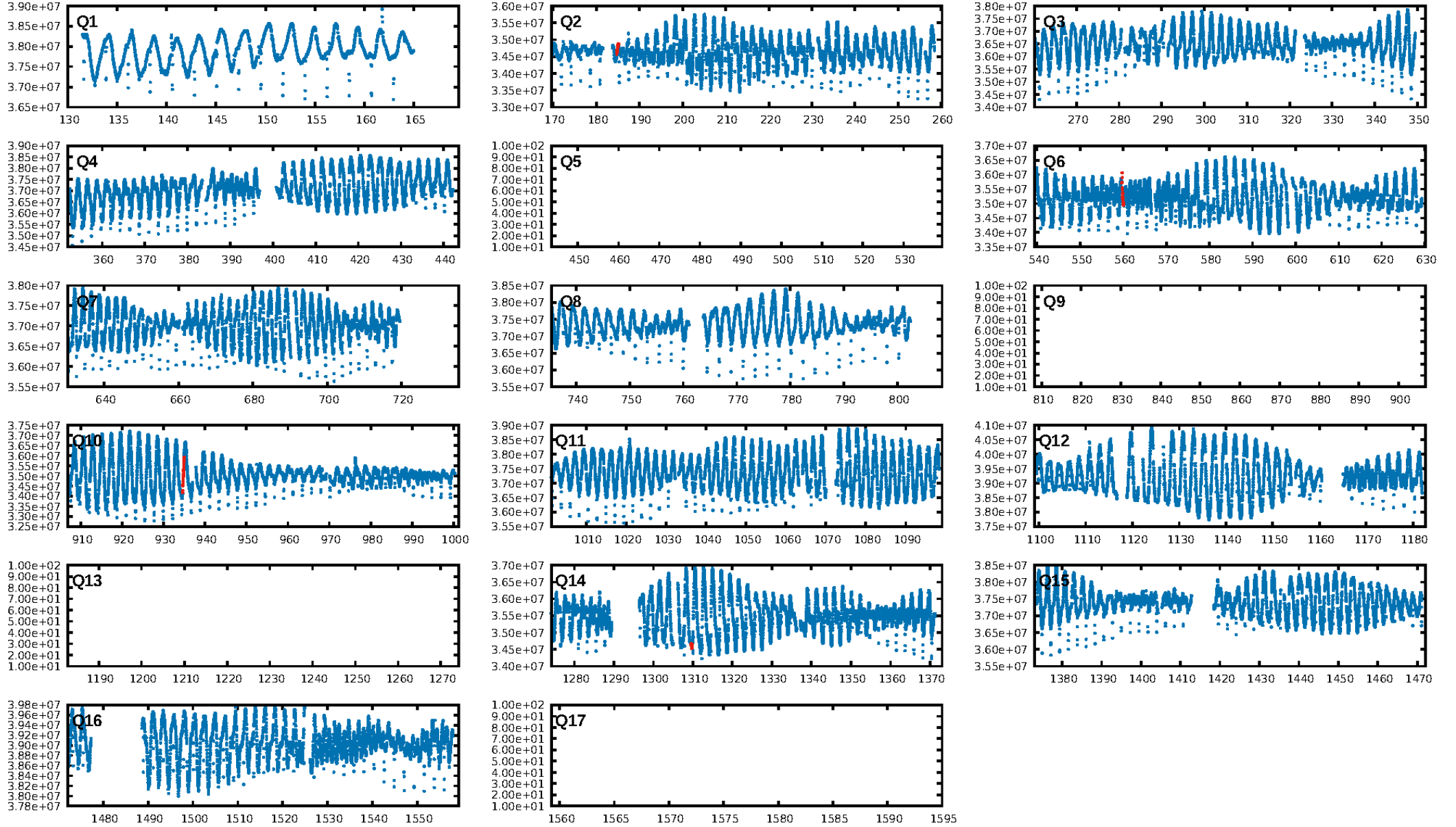
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [431.21σ]
LongPeriod-sig: 4.3% [0.05σ]
ModelChiSquare2-sig: 56.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.14
Centroid-sig: N/A
Centroid-so: 0.582 arcsec [0.87σ]
OotOffset-rm: 0.126 arcsec [1.42σ]
KicOffset-rm: 0.033 arcsec [0.33σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 0.00 [0/3]

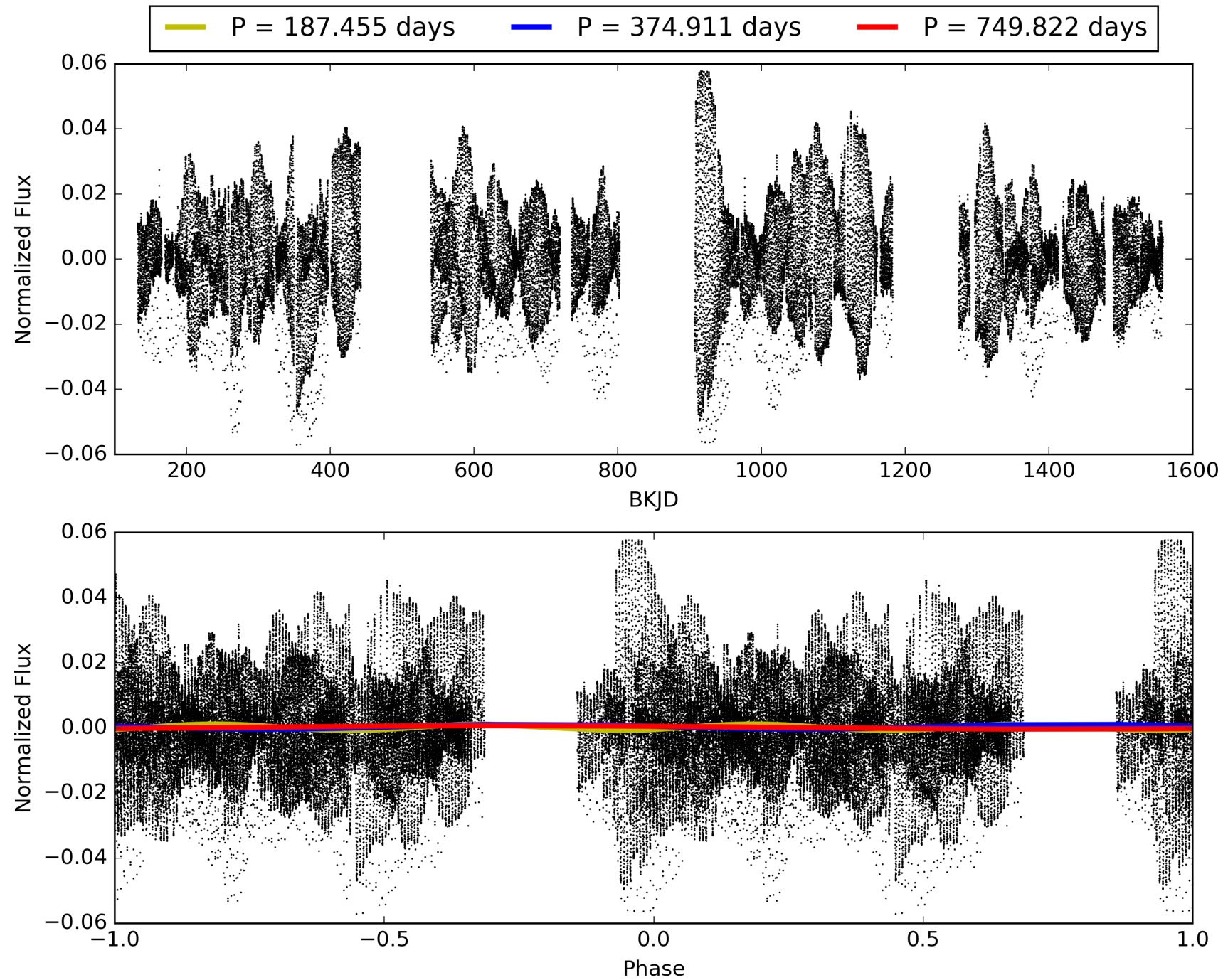
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:18:49 Z

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

TCE 006758917-06, PDC Light Curves

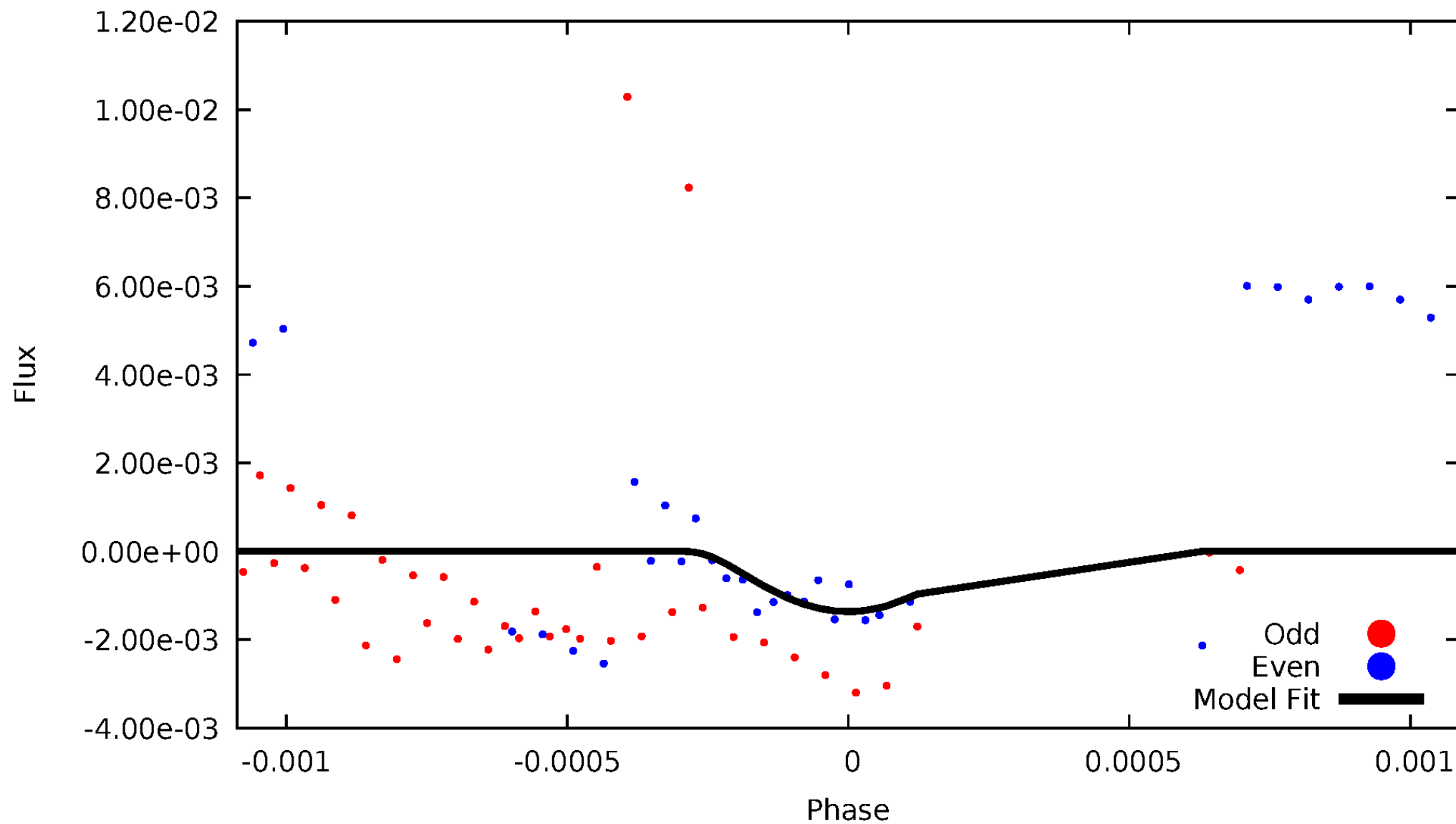


TCE 006758917-06



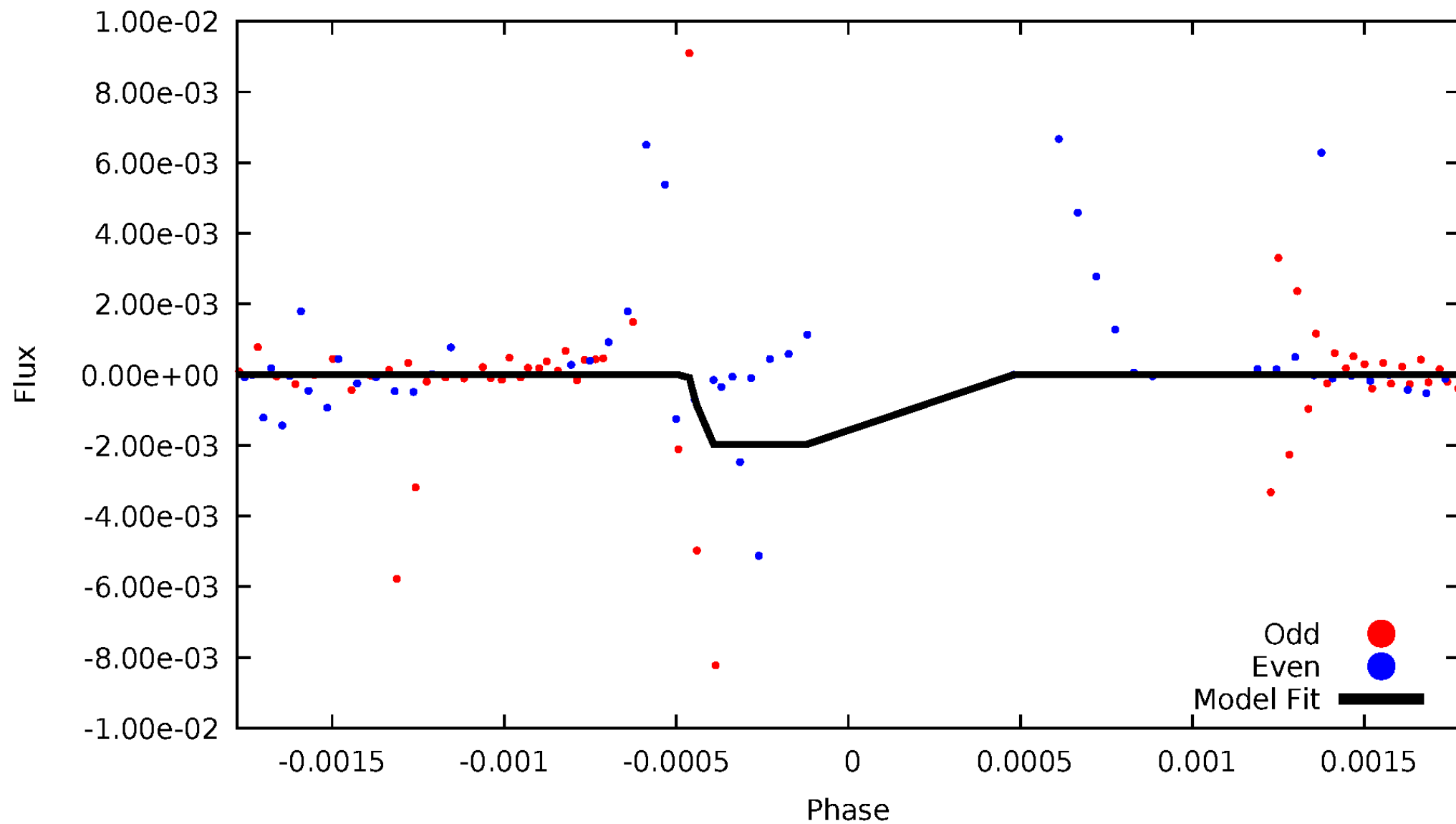
DV Odd/Even

TCE 006758917-06



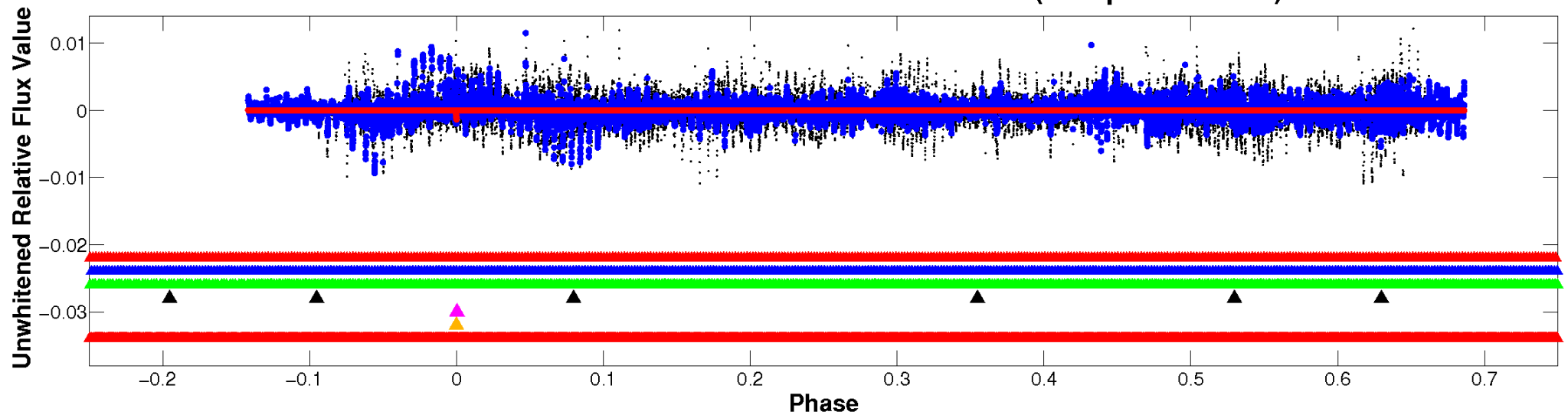
ALT Odd/Even

TCE 006758917-06

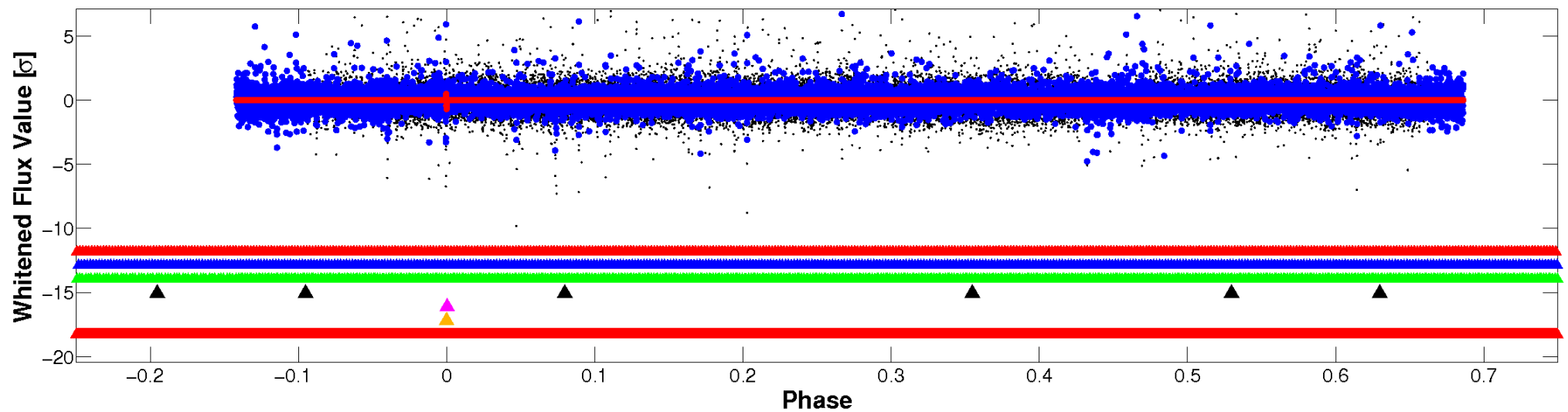


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

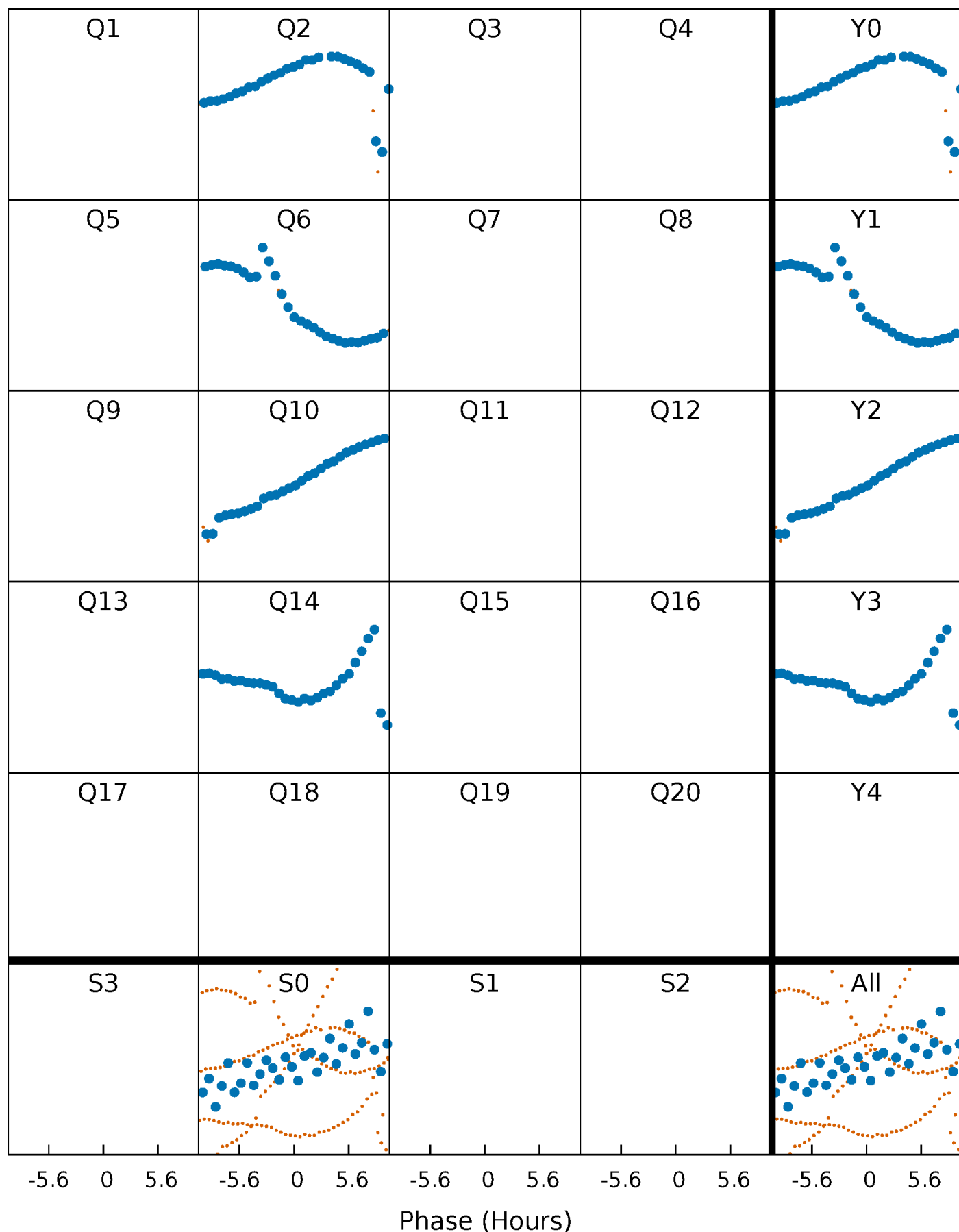


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



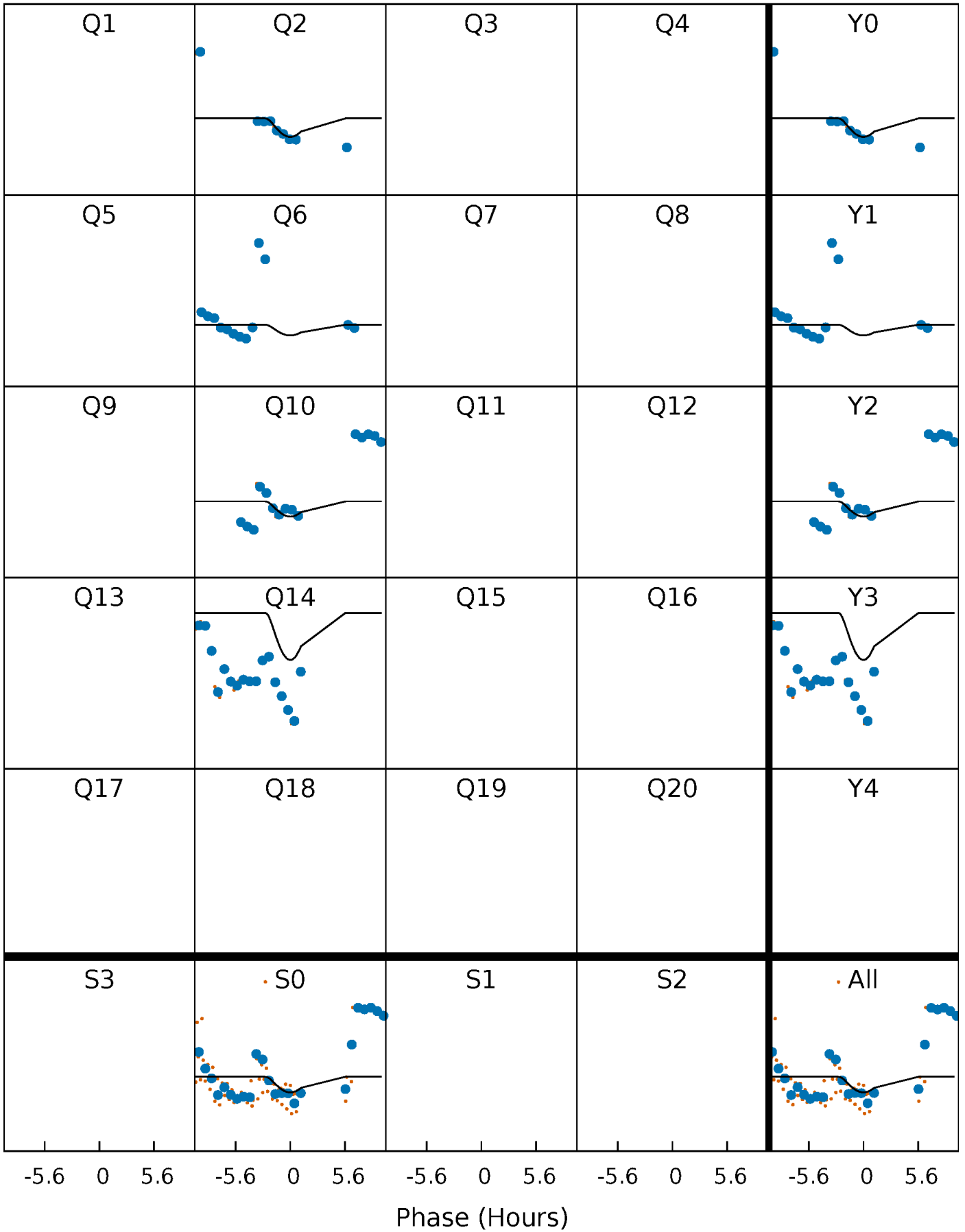
PDC Quarter-Phased Transit Curves

TCE 006758917-06 P=374.910965 Days $T_0=184.936780$ (BKJD)



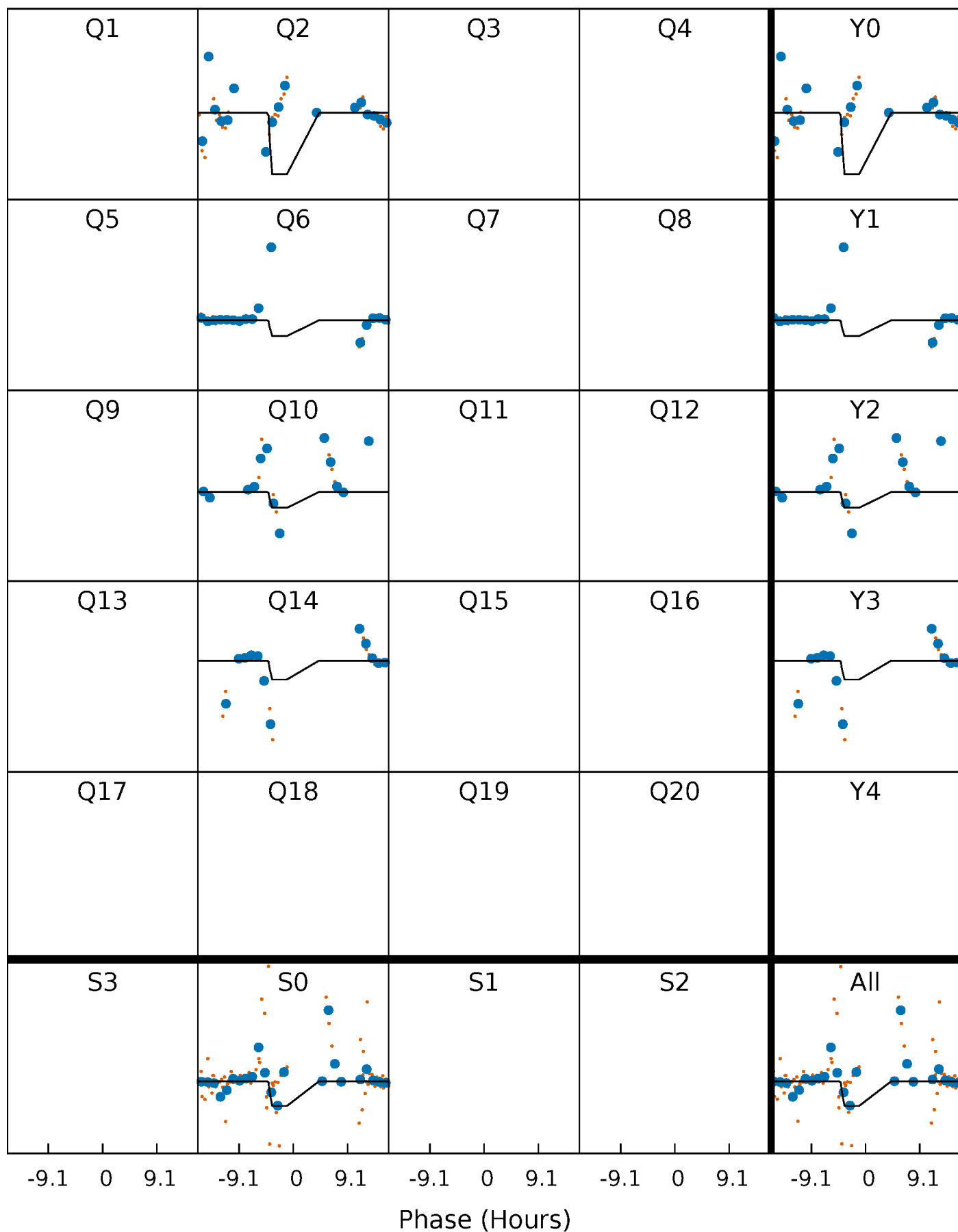
DV Quarter-Phased Transit Curves

TCE 006758917-06 $P=374.910965$ Days $T_0=184.936780$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

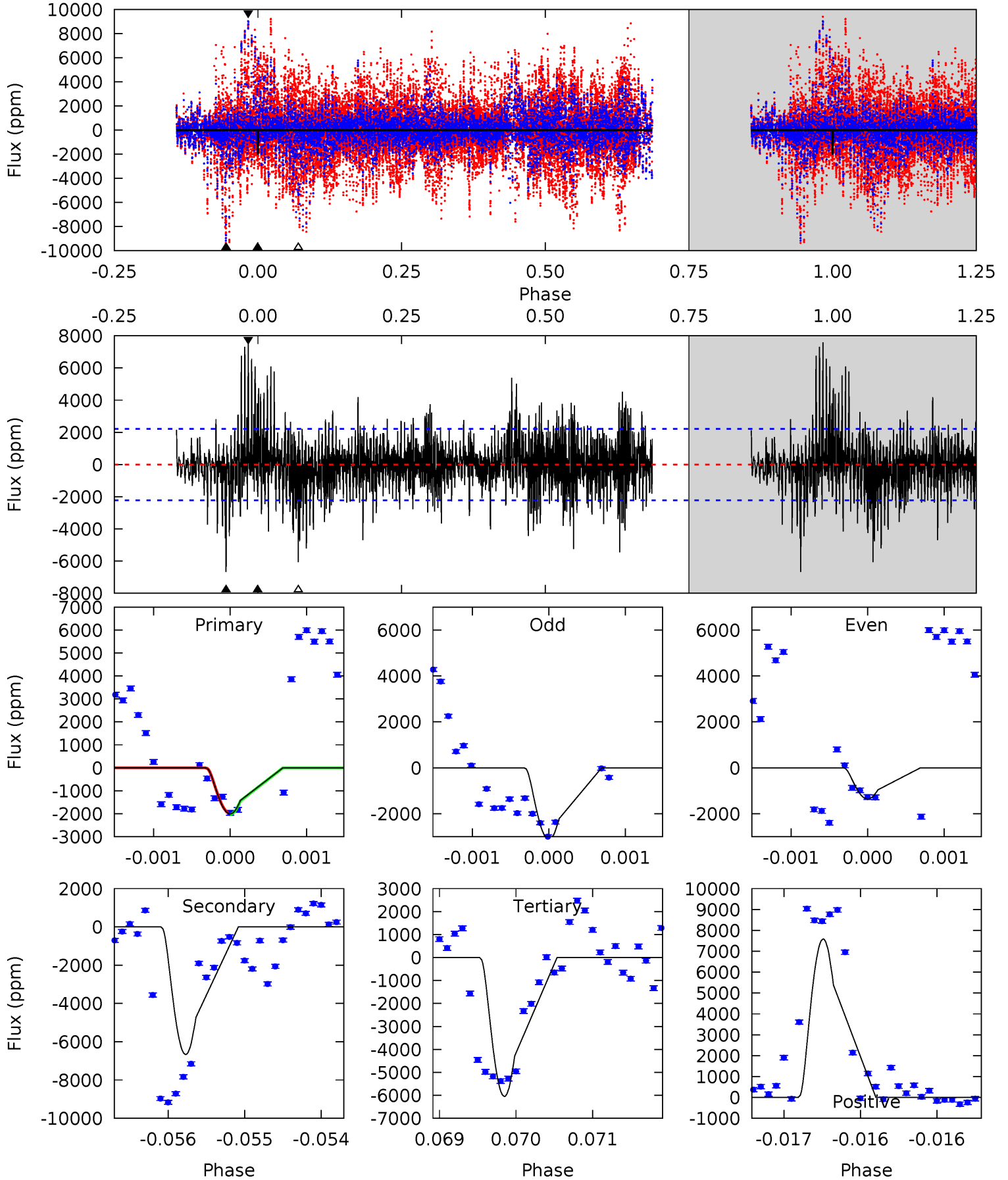
TCE 006758917-06 P=374.921770 Days $T_0=184.992669$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-06, P = 374.910965 Days, E = 184.936780 Days

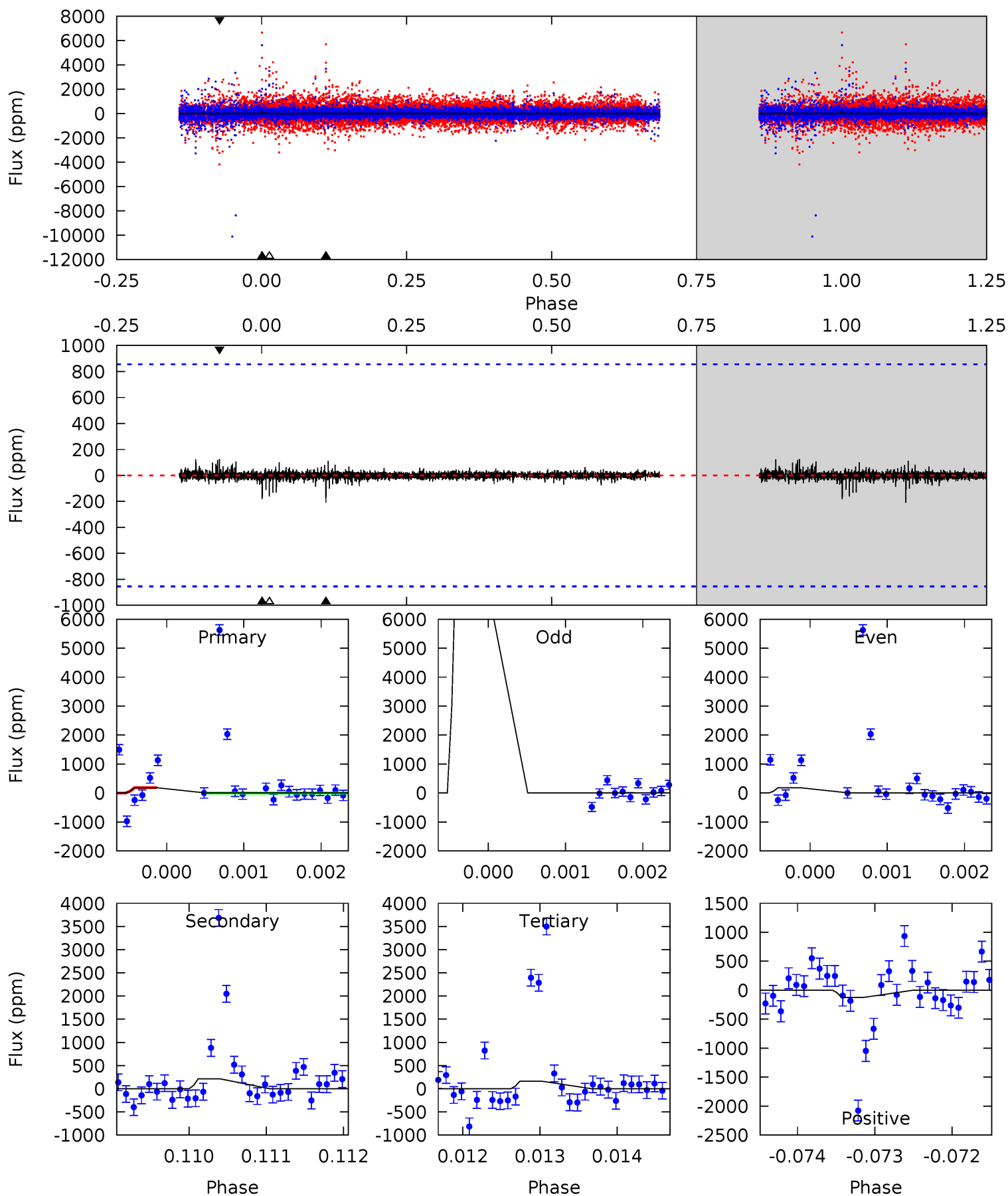
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.94	16.4	14.9	18.7	5.47	3.32	3.28	-9.97	-13.8	1.53	-2.27	2.05	1.28	0.53	0.07



Alt Model-Shift Uniqueness Test

006758917-06, P = 374.921770 Days, E = 184.992669 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.16	1.35	1.03	0.80	5.46	3.31	0.10	0.13	0.36	0.32	0.55	18.6	0	0.37	0



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-6673 ± 406	$26.31^{+25.73}_{-17.92}$	325^{+17}_{-12}	3524^{+1877}_{-645}	4990^{+45156}_{-3728}
Alt.	-211 ± 156	$25.90^{+26.45}_{-18.45}$	325^{+18}_{-13}	2165^{+756}_{-406}	124^{+1392}_{-107}

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

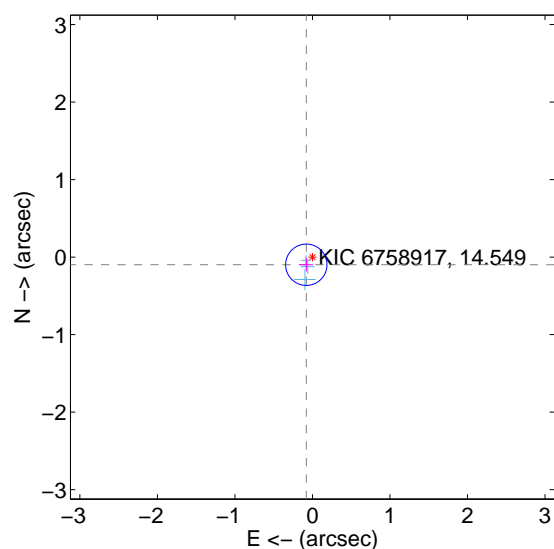
Supplemental centroid analysis for 006758917-06. Kepler magnitude: 14.55. Transit SNR 2.35

There are 3 quarters with good PRF difference image offsets

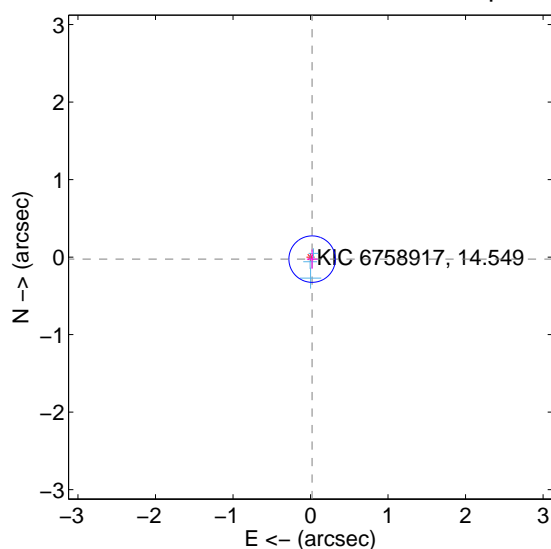
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.126 ± 0.089	1.42	0.079 ± 0.089	-0.099 ± 0.089
PRF-fit source offset from KIC position	0.033 ± 0.100	0.33	-0.021 ± 0.068	-0.026 ± 0.124
photometric centroid source offset	0.58 ± 0.67	0.87	0.44 ± 0.67	-0.39 ± 0.67

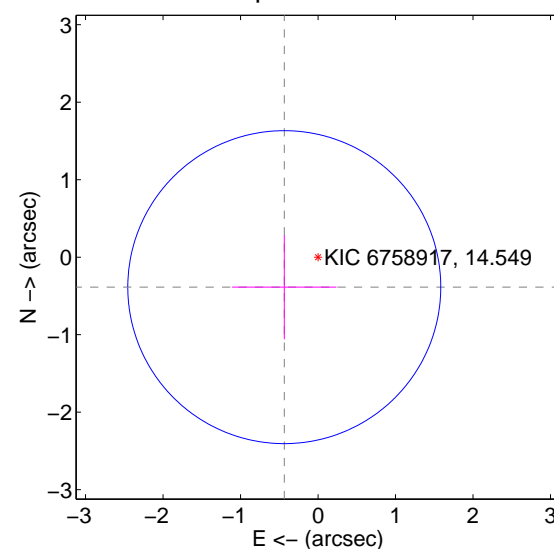
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

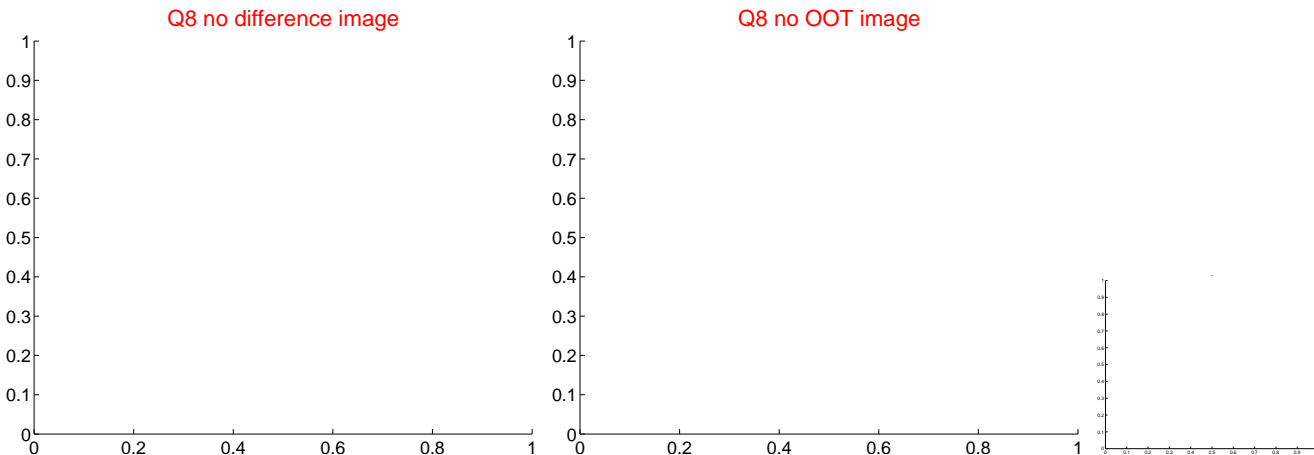
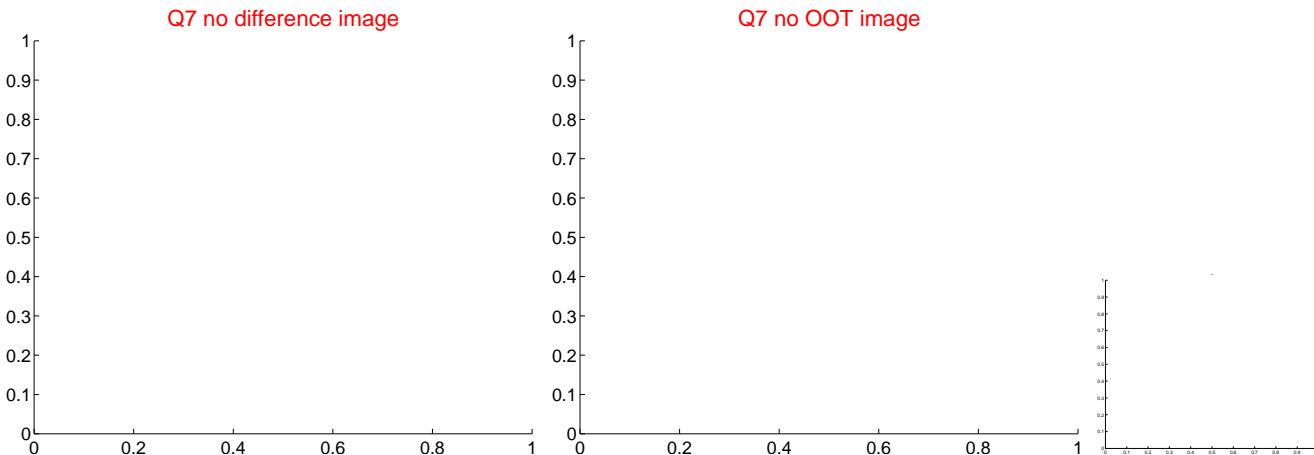
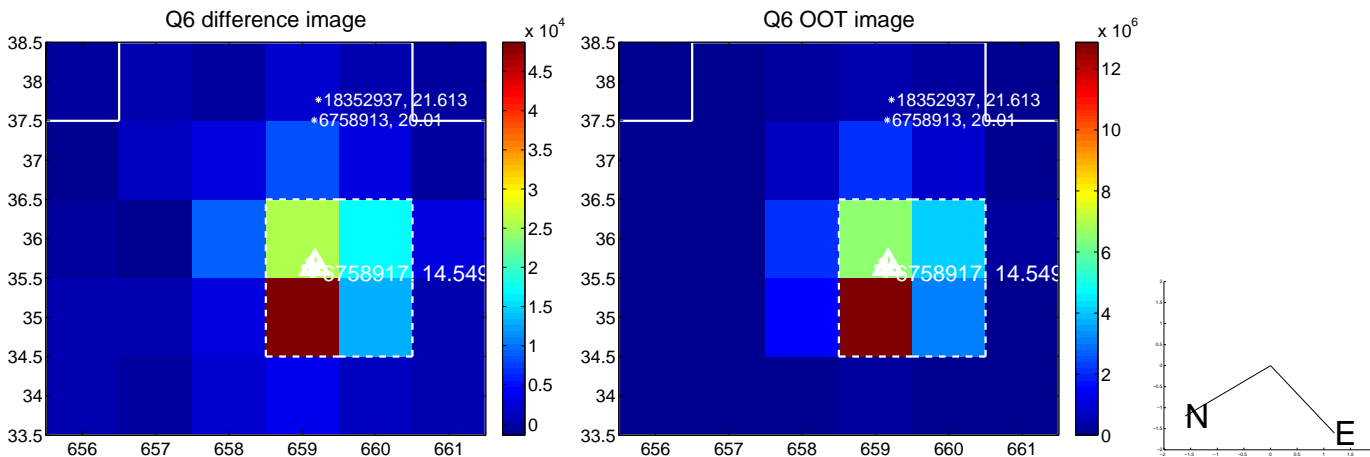
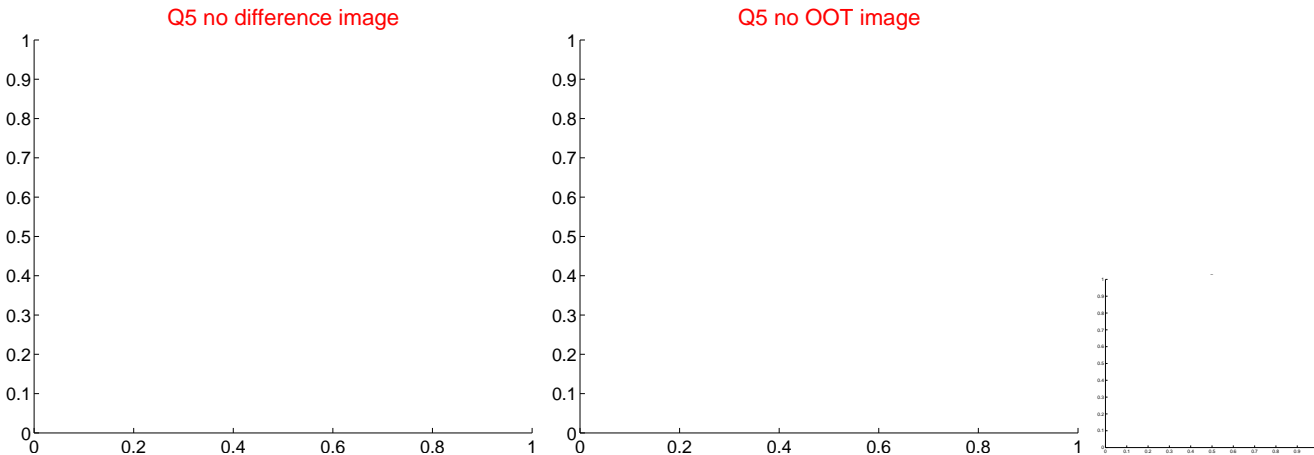


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

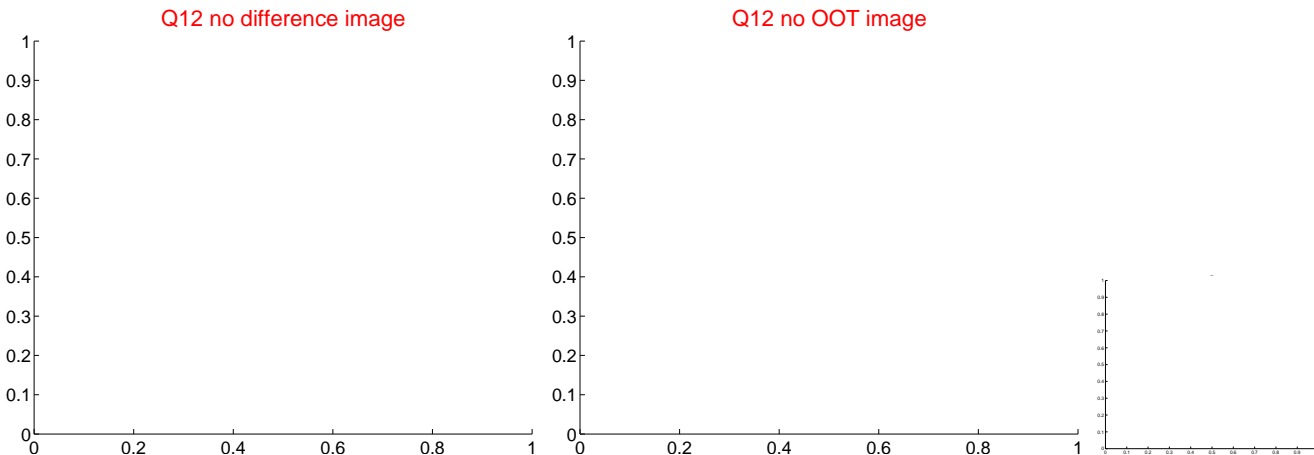
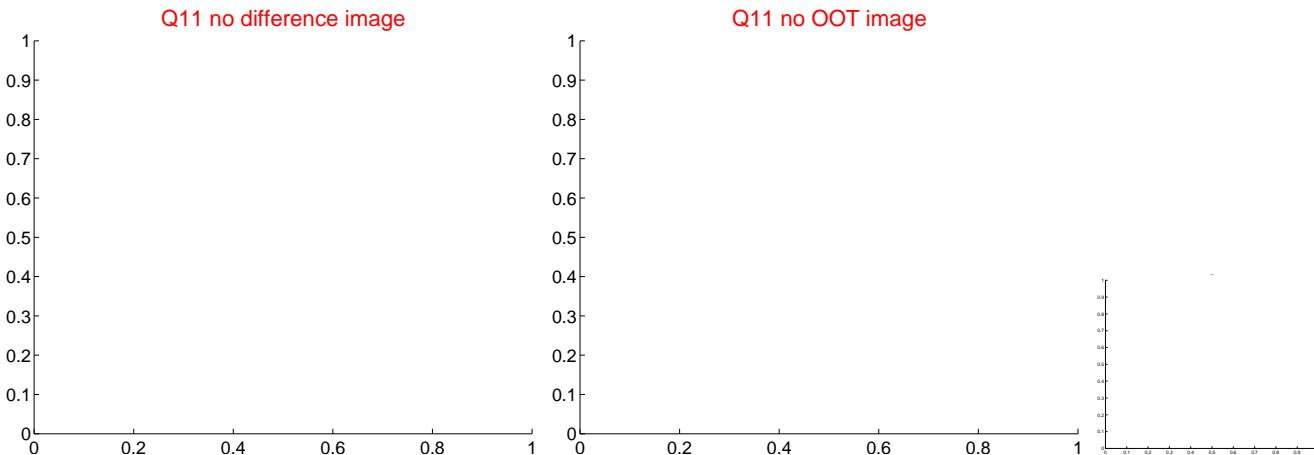
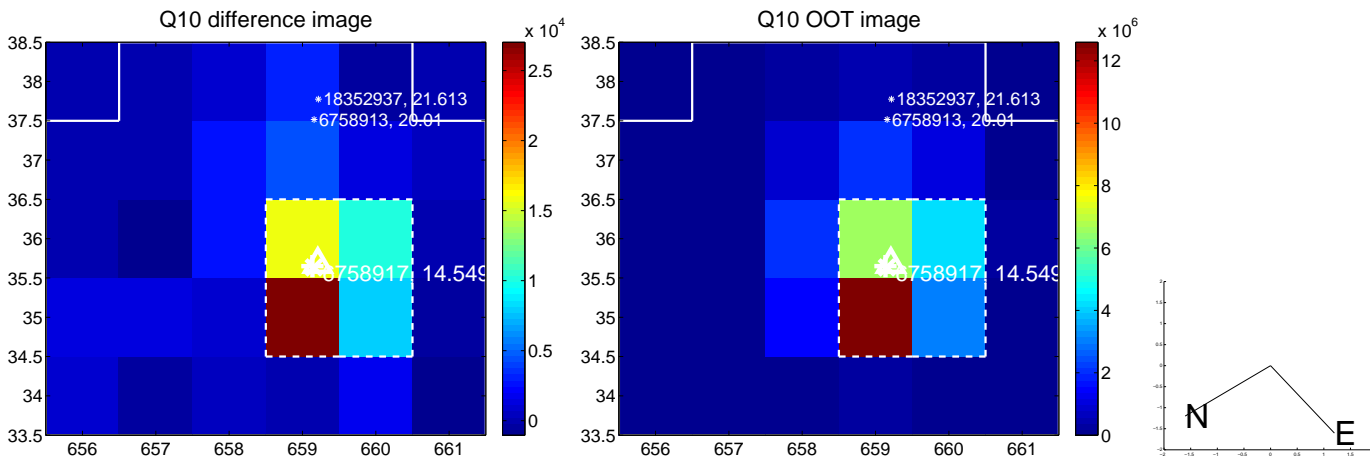
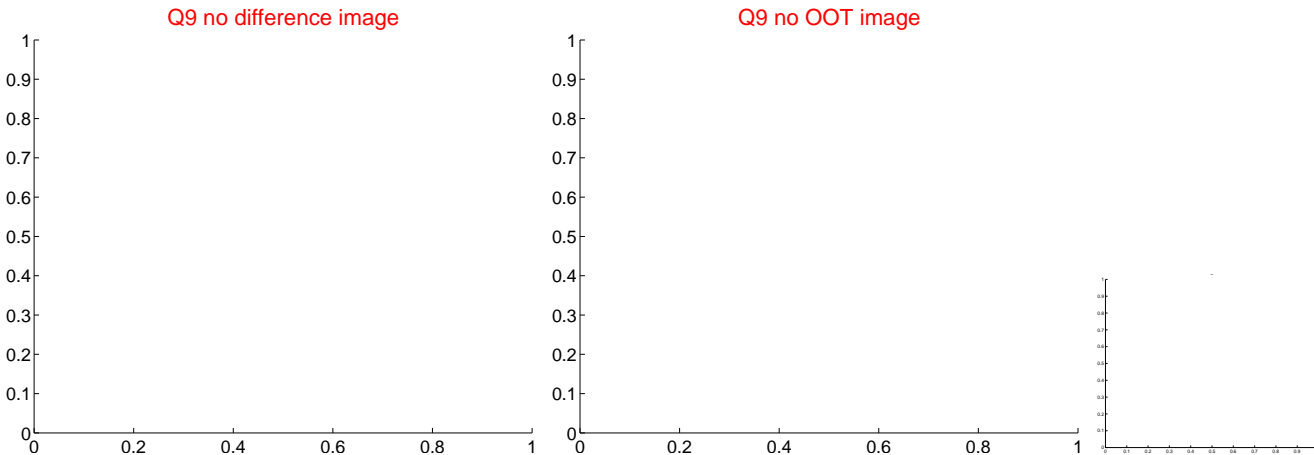
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



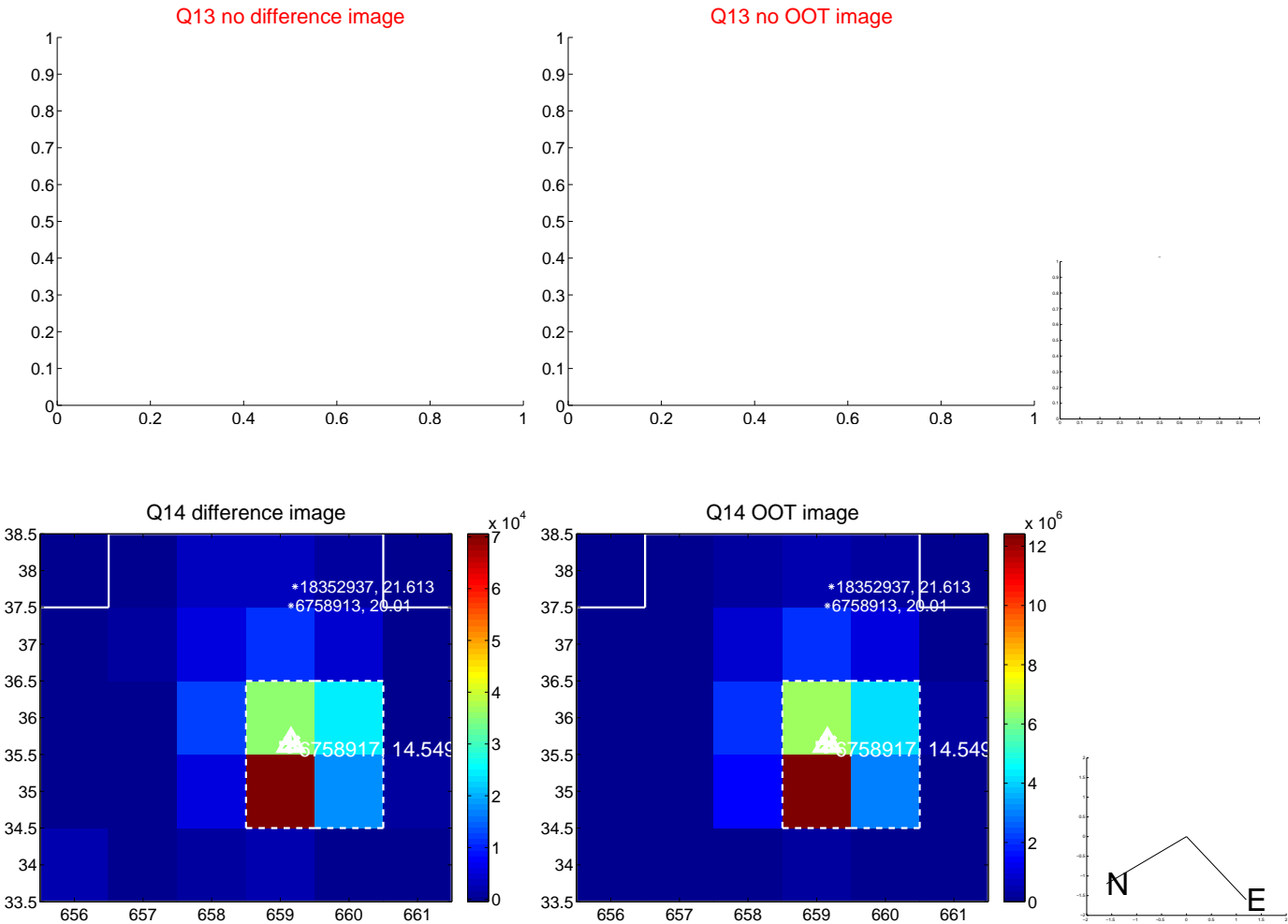
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



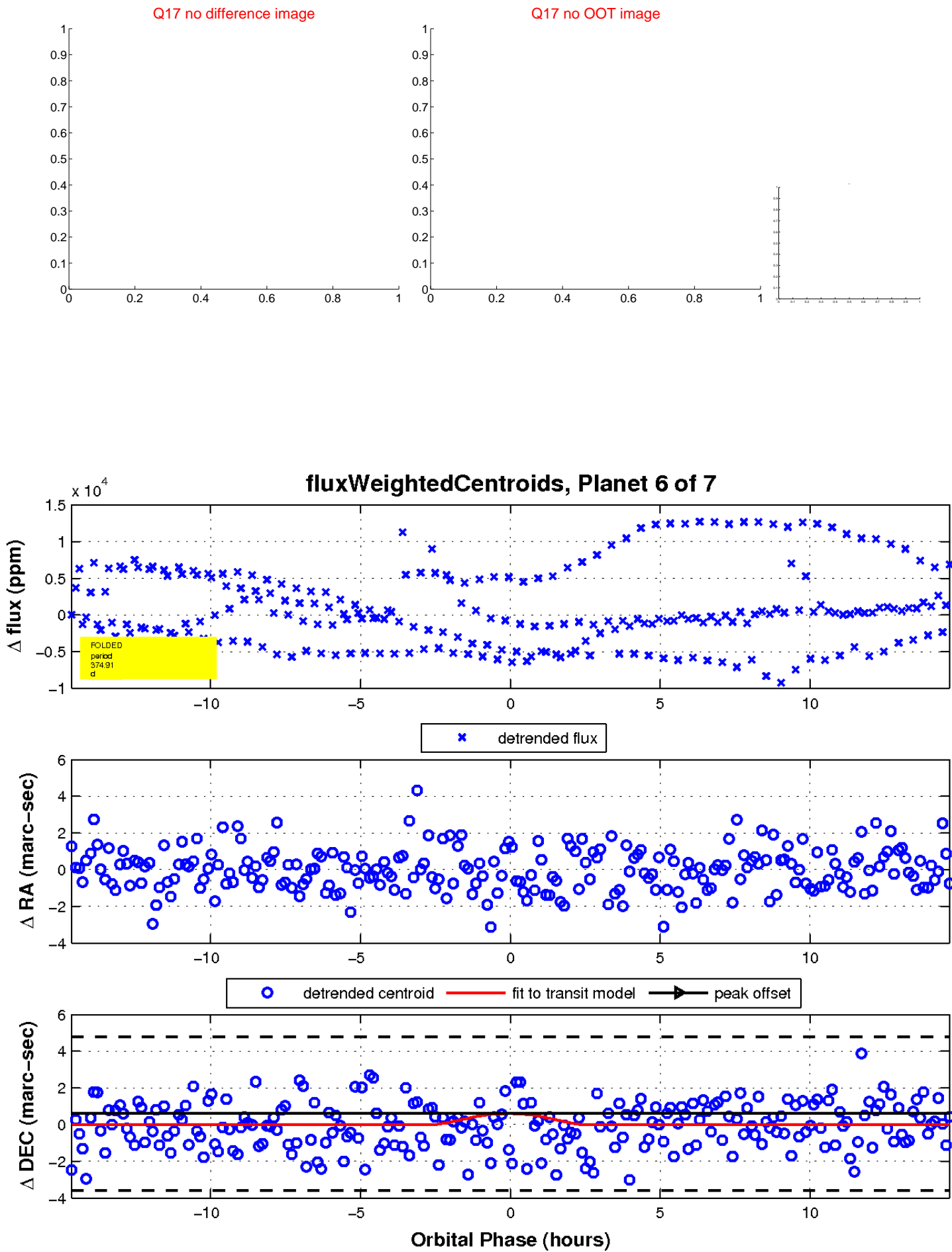
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

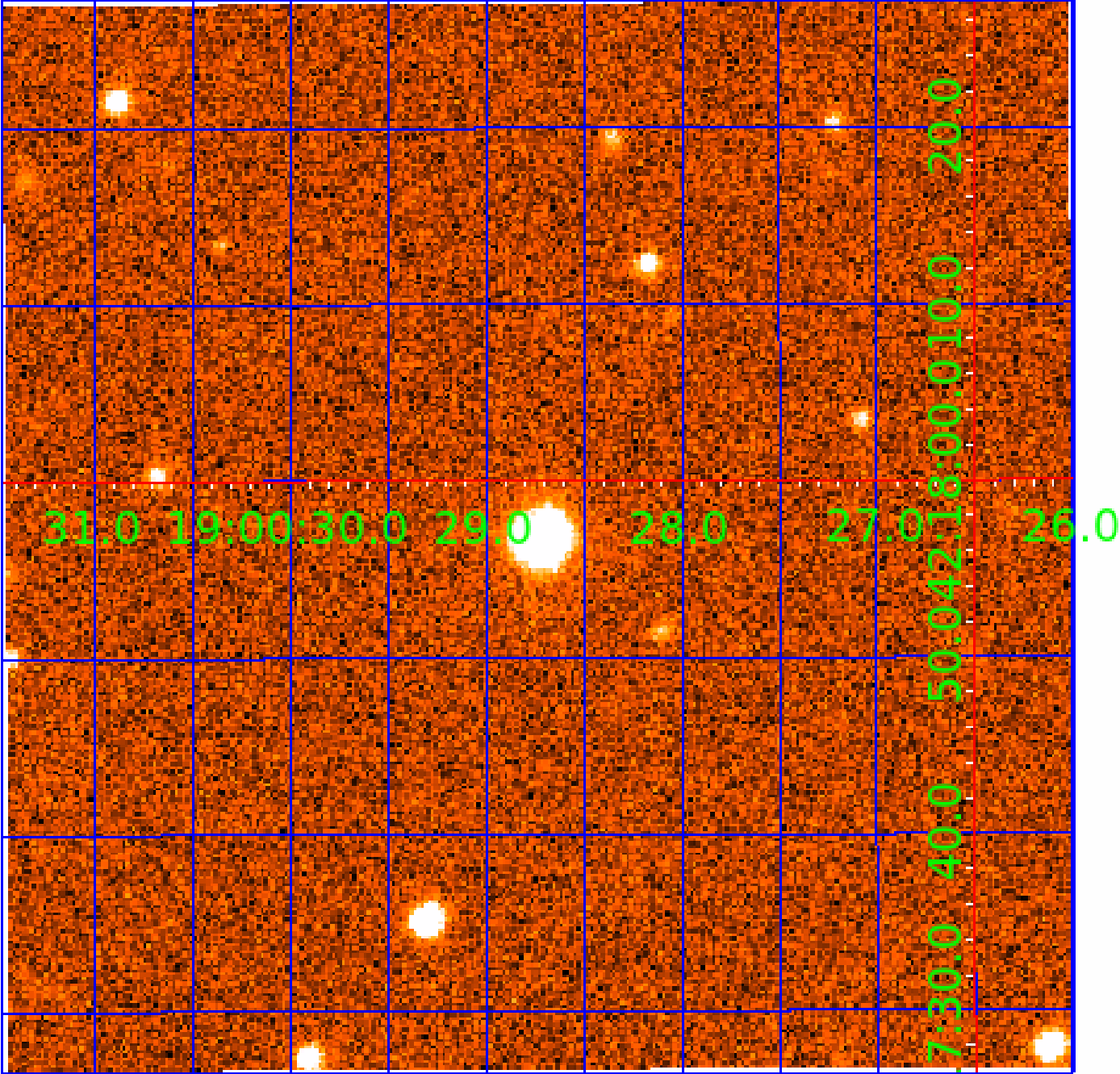


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006758917

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})
006758917-01	OBS	0453.01	2.236108	131.632781	27482.4	1.855	938.0	754.7	0.80	5708	18.02	587.60
006758917-02	OBS	No	2.236120	132.750556	2292.9	1.475	62.9	95.9	0.80	5708	4.55	587.60
006758917-03	OBS	No	2.235413	133.274987	173.5	1.615	9.0	7.3	0.80	5708	1.25	587.85
006758917-04	OBS	No	271.803165	149.250781	1007.4	3.000	11.9	-1.0	0.80	5708	2.51	0.98
006758917-05	OBS	No	374.922311	185.061240	261.9	1.038	13.3	1.0	0.80	5708	1.30	0.64
006758917-06	OBS	No	374.910965	184.936780	1360.3	4.892	13.3	2.3	0.80	5708	5.38	0.64
006758917-07	OBS	No	0.559244	131.582869	570.5	1.500	8.3	-1.0	0.80	5708	1.89	3729.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006758917-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED—HAS_SEC_TCE
006758917-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE
006758917-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006758917-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006758917-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006758917-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD
006758917-07	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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 006758917-07

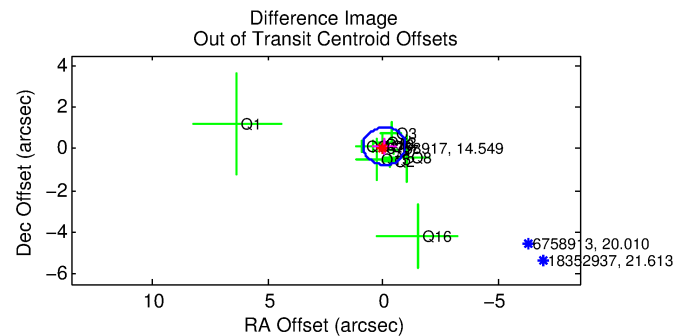
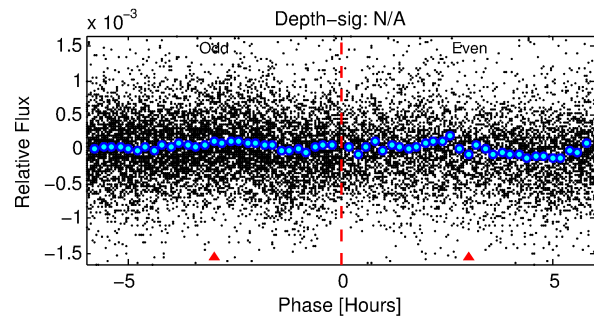
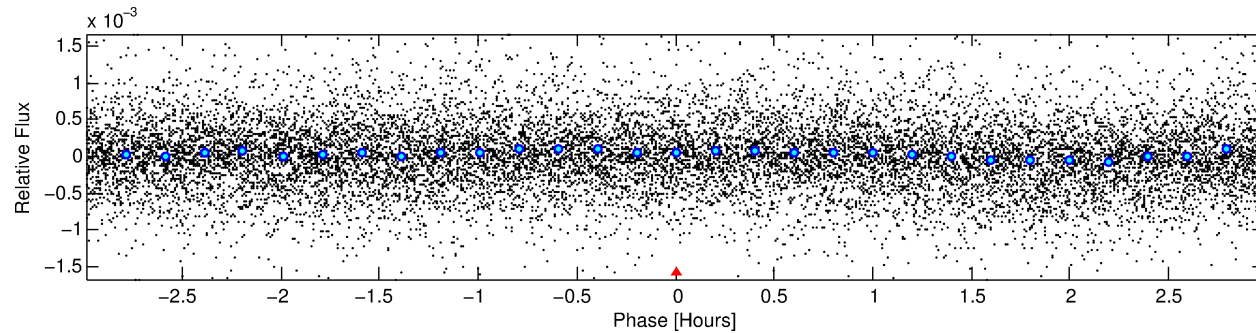
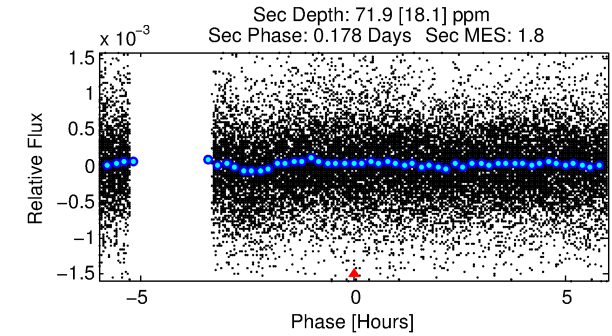
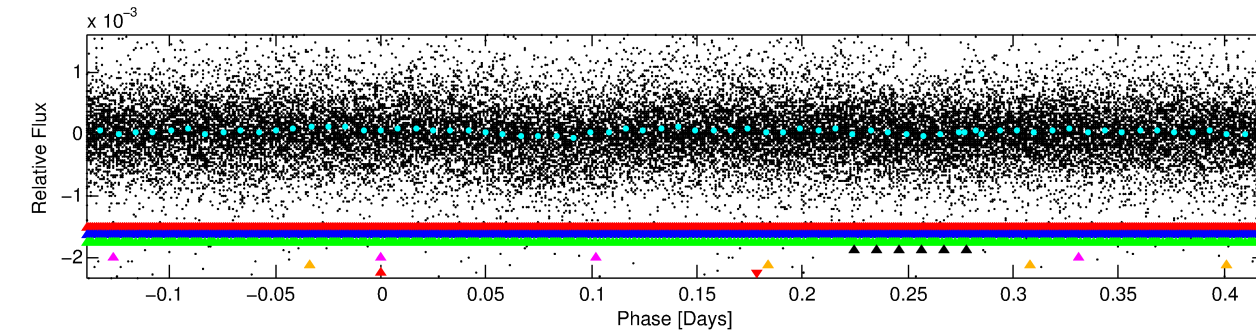
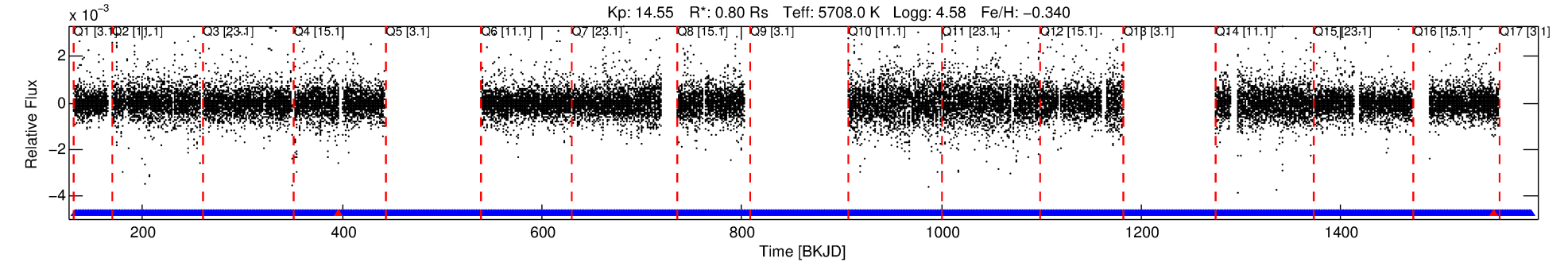
No Significant Match Found

DV One-Page Summary

KIC: 6758917 Candidate: 7 of 7 Period: 0.559 d

KOI: K00453 Corr: No Ephemeris Match

Kp: 14.55 R*: 0.80 Rs Teff: 5708.0 K Logg: 4.58 Fe/H: -0.340



TPS TCE Results:

Period = 0.55924 d
Epoch = 131.5829 BKJD

DV fit results are unavailable

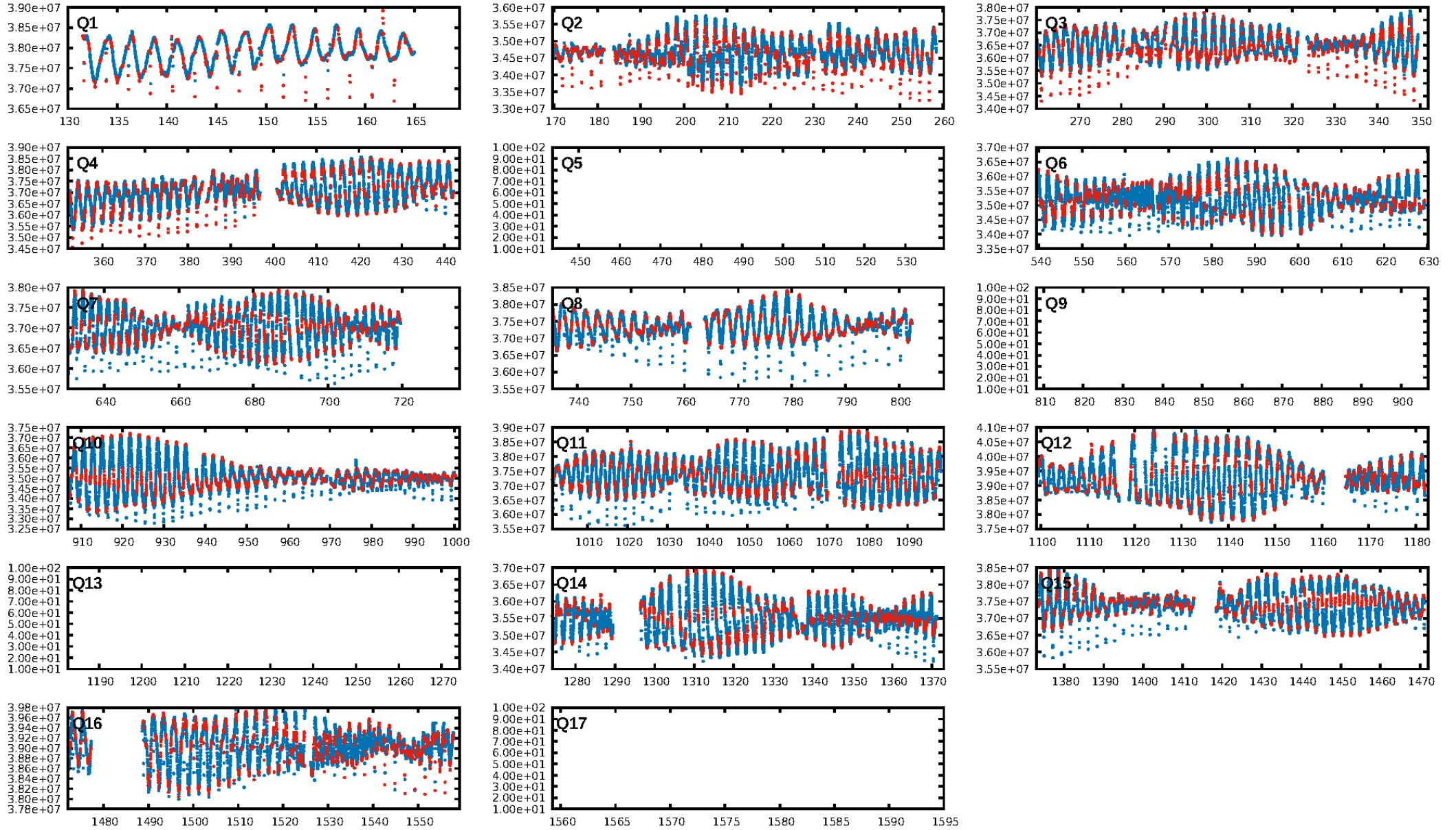
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [18.25σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1311/1313]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.145 arcsec [0.48σ]
KicOffset-rm: 0.187 arcsec [0.55σ]
OotOffset-st: 4/3/4/1 [12]
KicOffset-st: 4/3/4/1 [12]
DiffImageQuality-fgm: 0.33 [4/12]
DiffImageOverlap-fno: 1.00 [13/13]

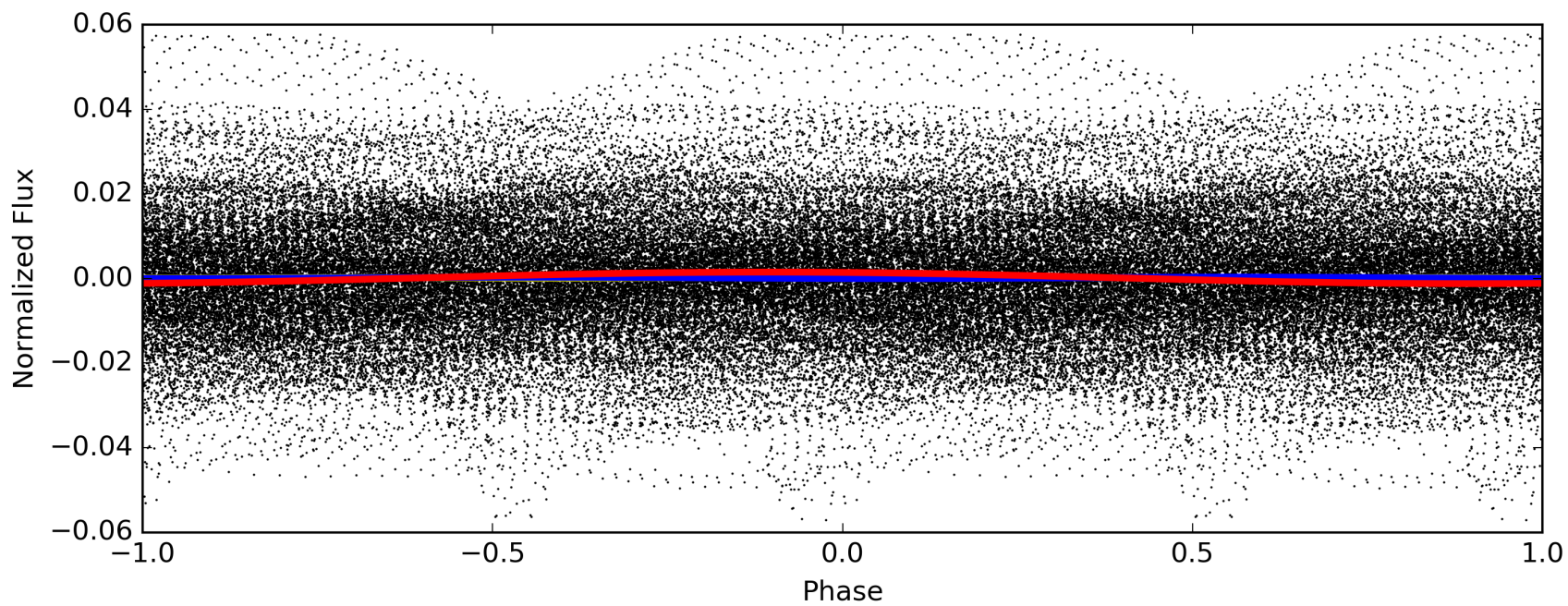
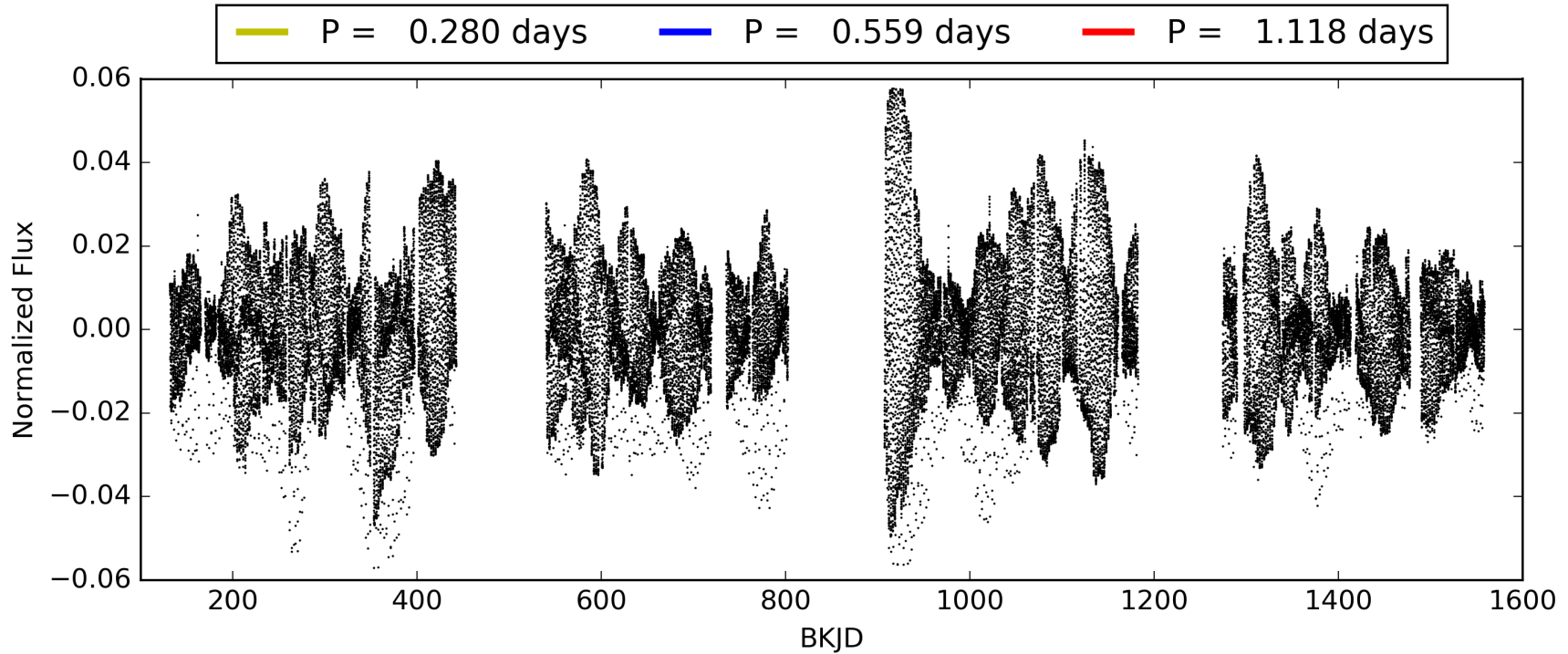
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 08:18:55 Z

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

TCE 006758917-07, PDC Light Curves

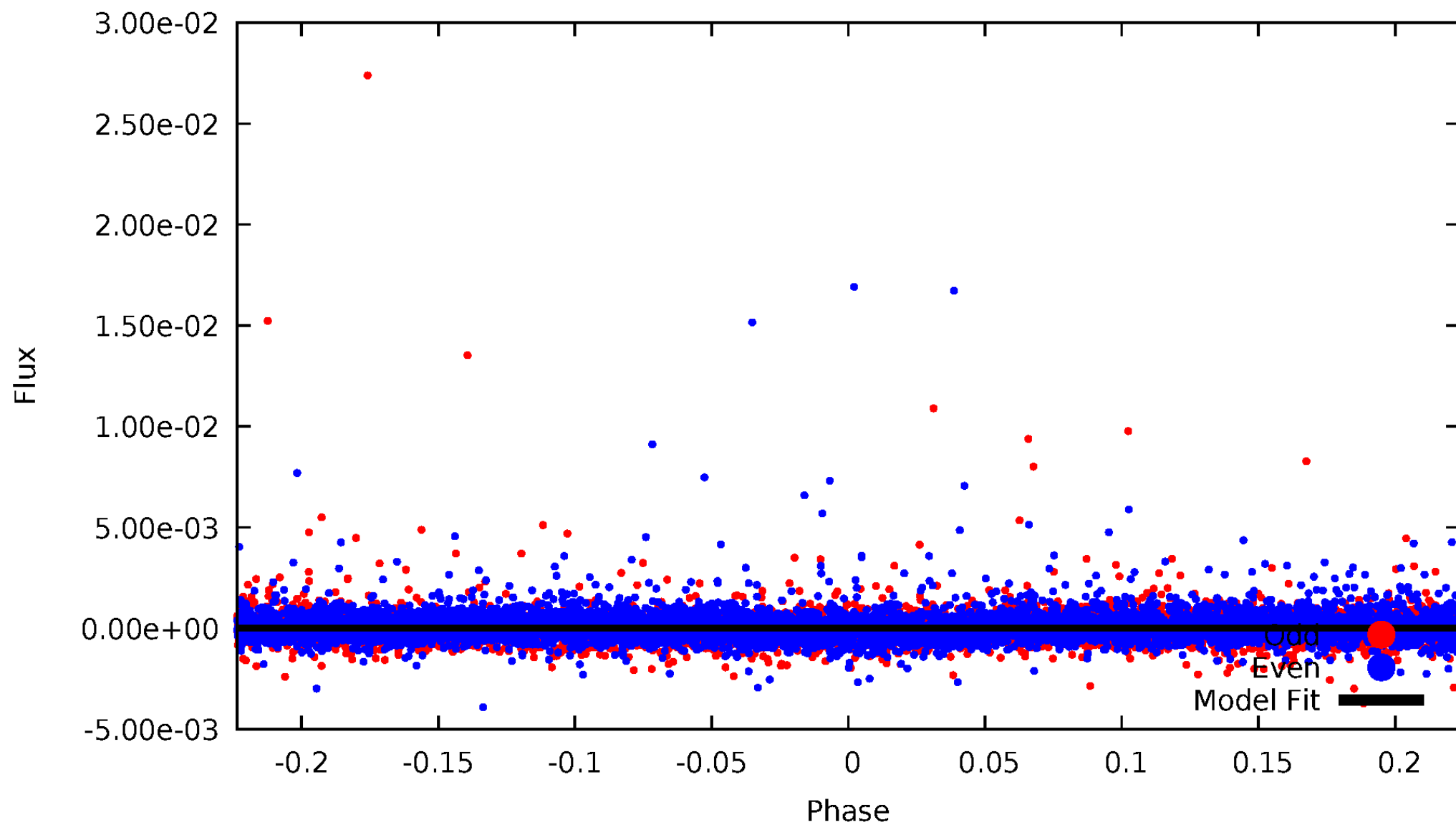


TCE 006758917-07



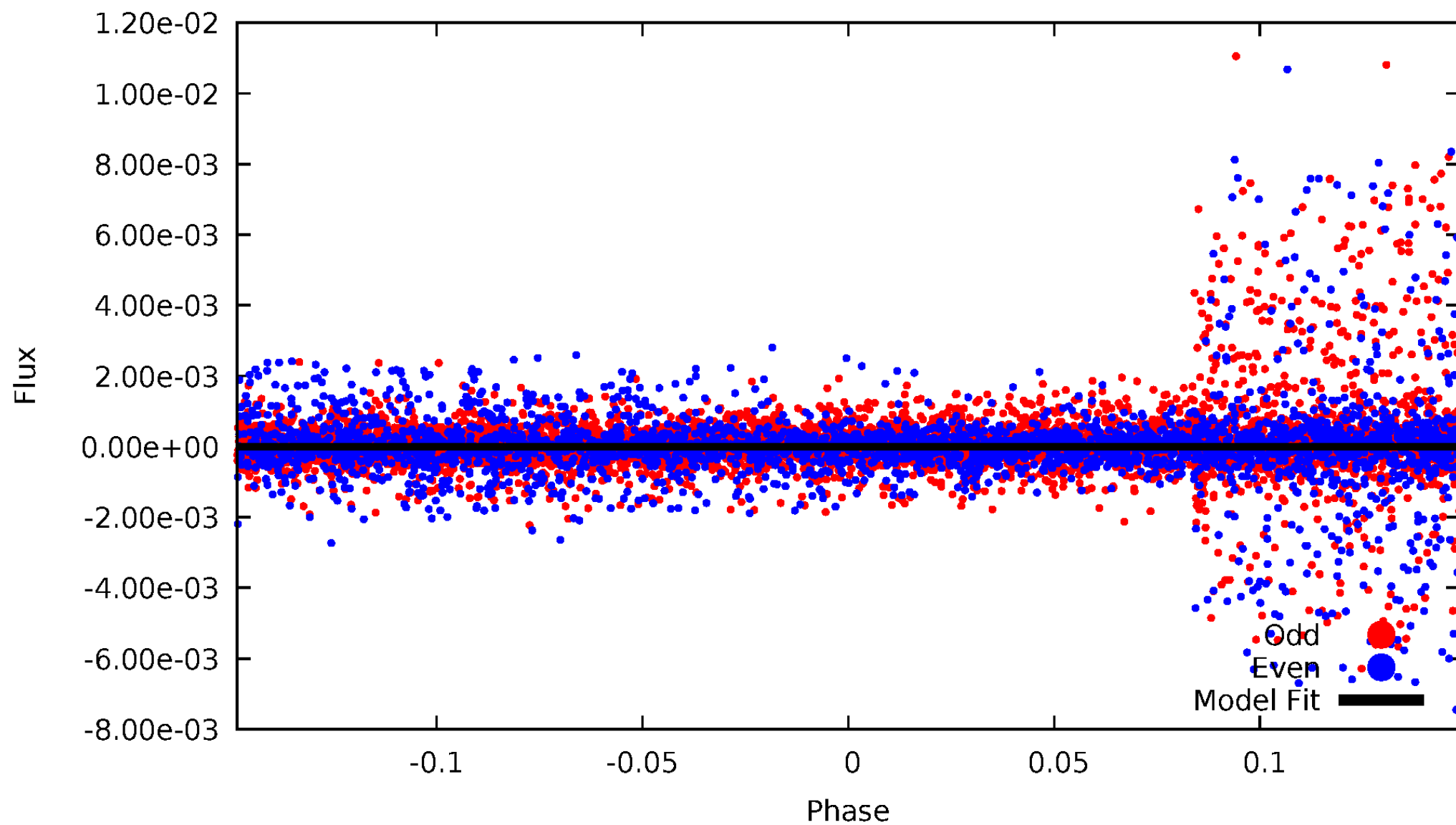
DV Odd/Even

TCE 006758917-07

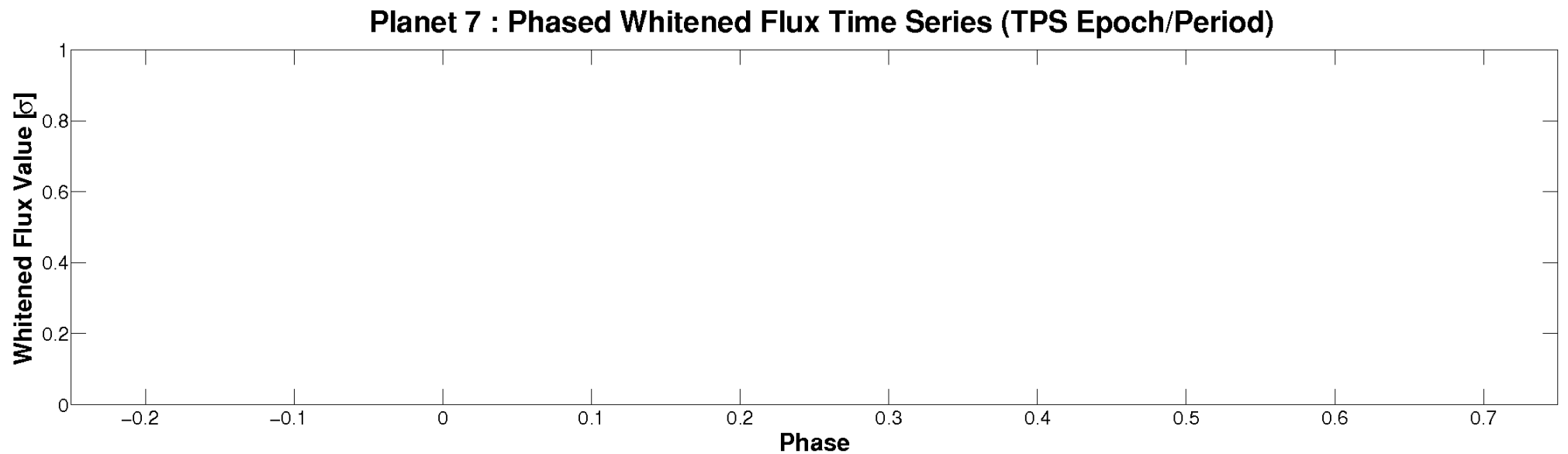
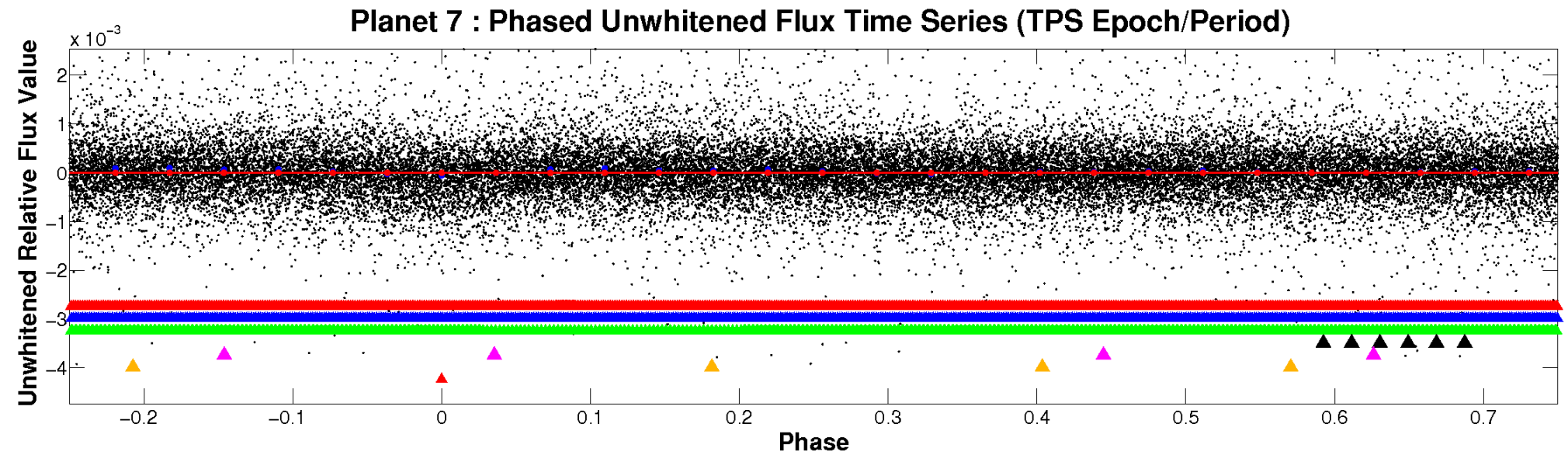


ALT Odd/Even

TCE 006758917-07

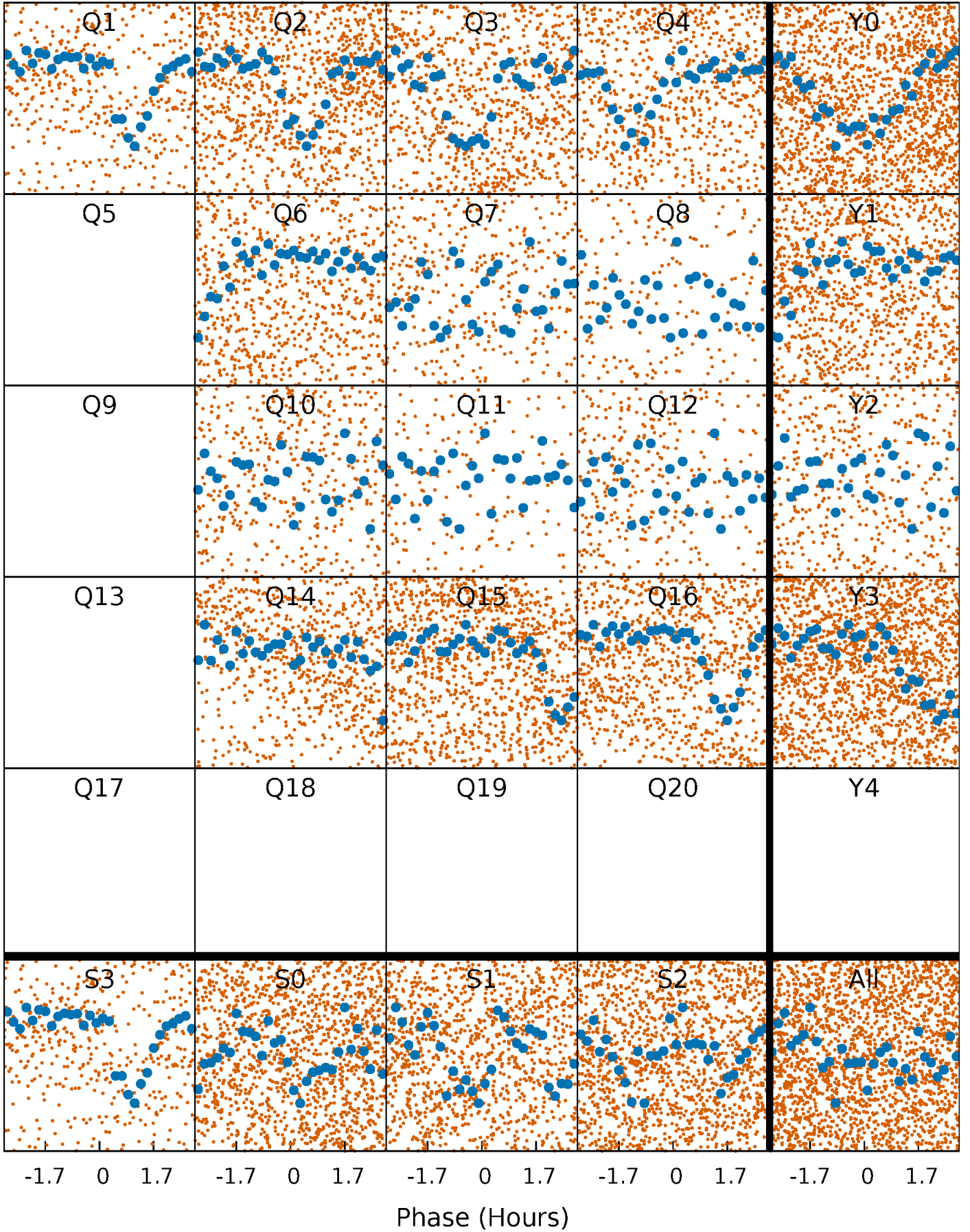


Non-Whitened Vs. Whitened Light Curve



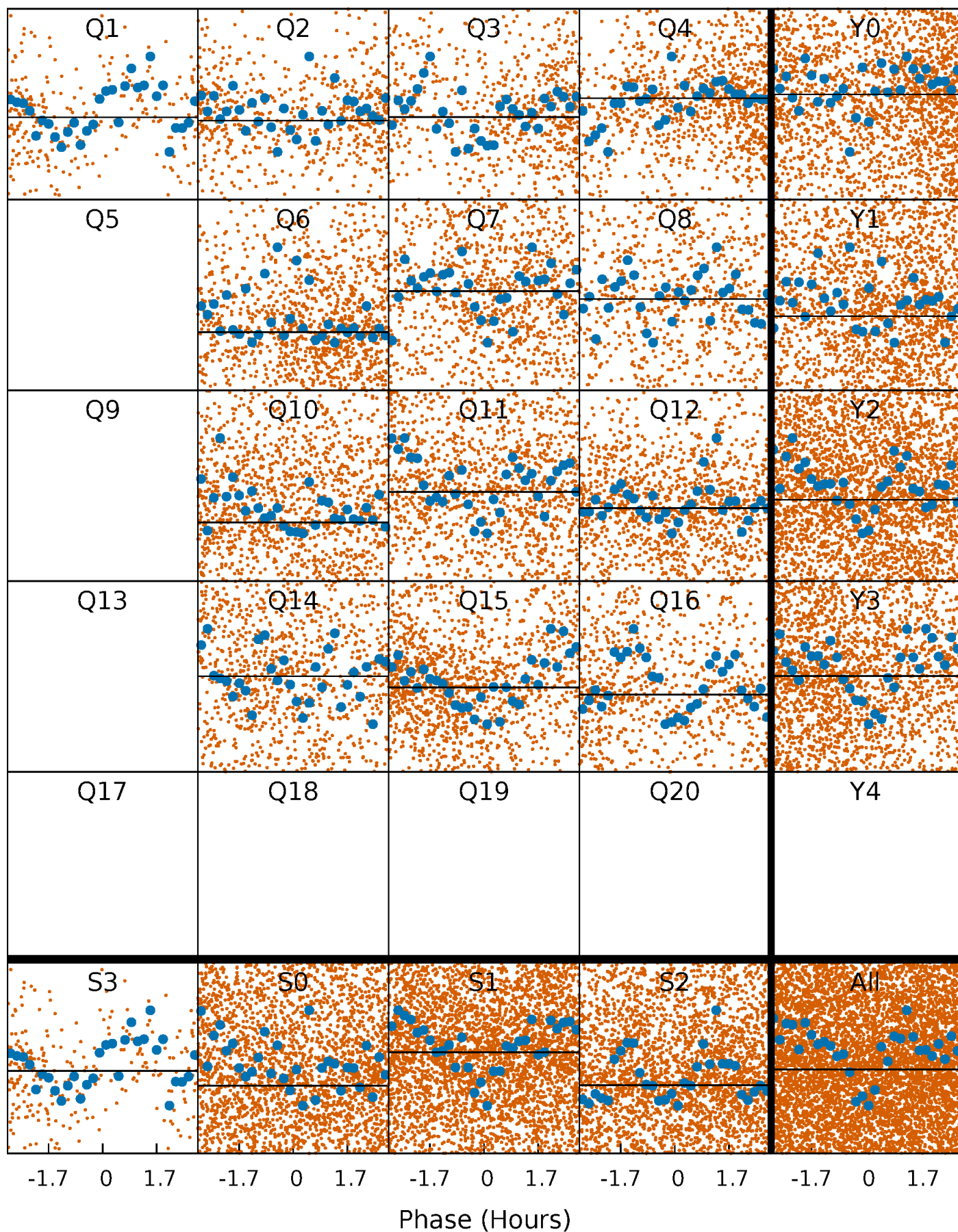
PDC Quarter-Phased Transit Curves

TCE 006758917-07 P= 0.559244 Days $T_0=131.582869$ (BKJD)



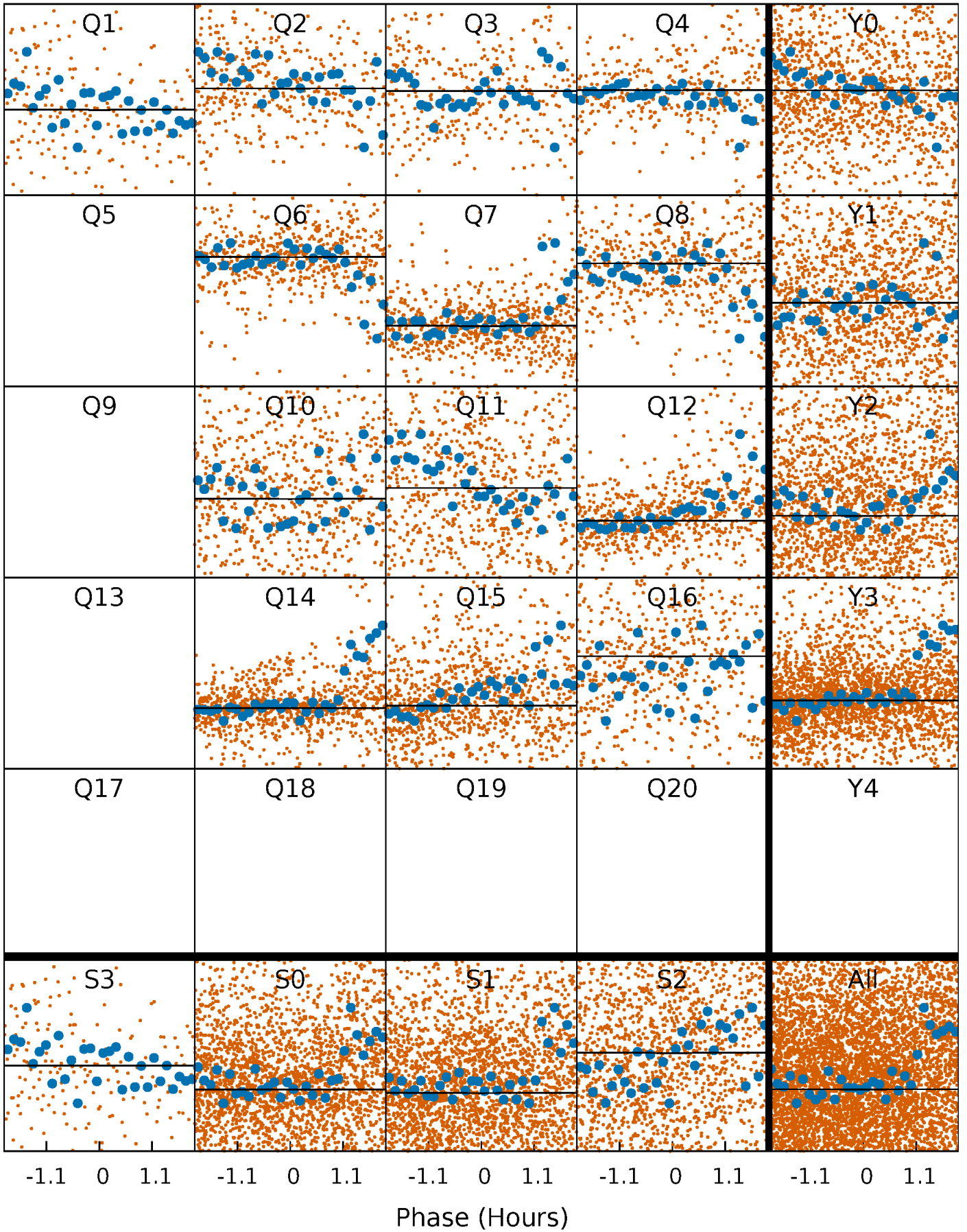
DV Quarter-Phased Transit Curves

TCE 006758917-07 $P = 0.559244$ Days $T_0 = 131.582869$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

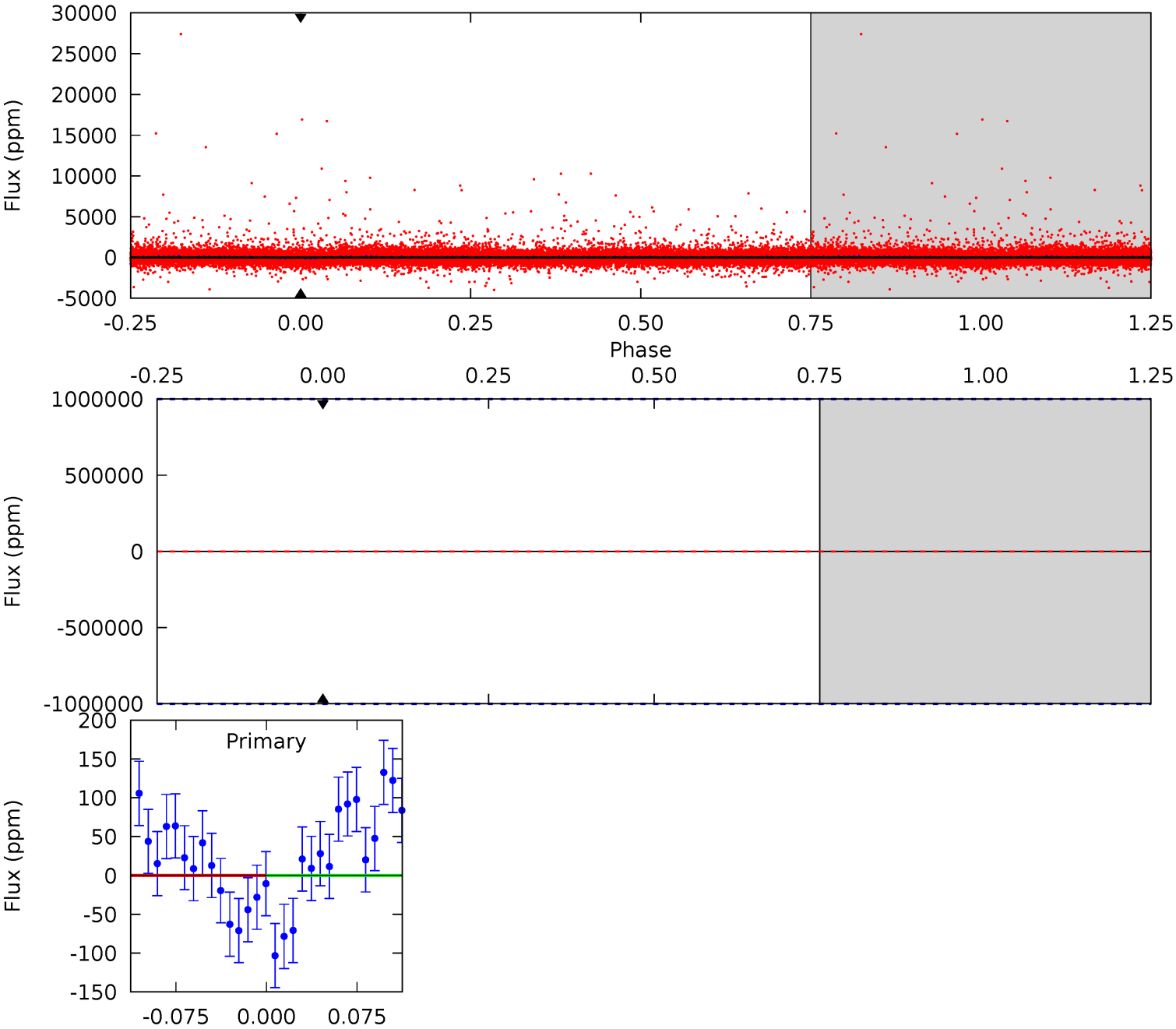
TCE 006758917-07 $P = 0.559244$ Days $T_0 = 132.060033$ (BKJD)



DV Model-Shift Uniqueness Test

006758917-07, P = 0.559244 Days, E = 131.582869 Days

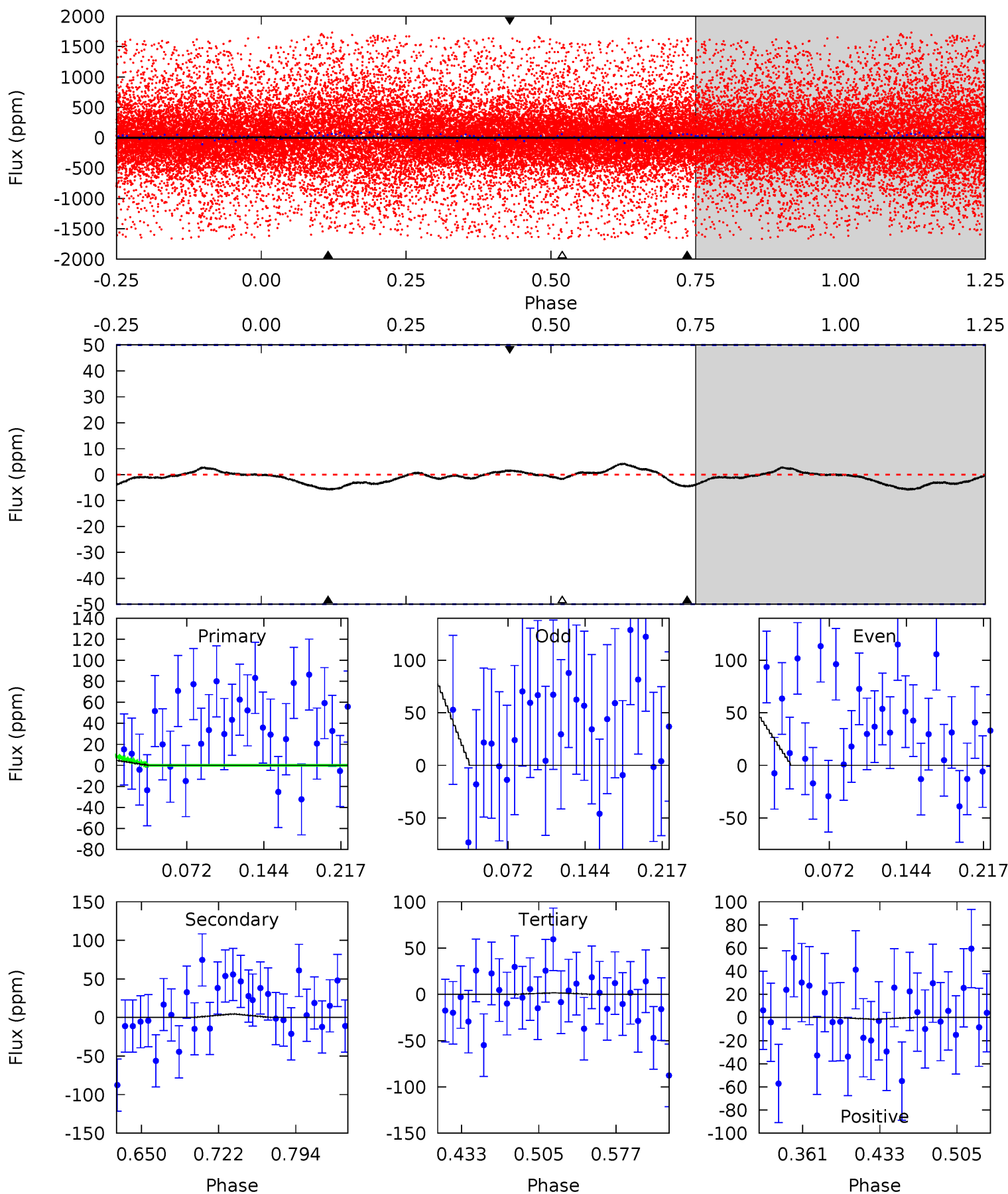
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006758917-07, P = 0.559244 Days, E = 131.500789 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.54	0.42	0.16	0.14	4.63	1.80	0.14	0.38	0.39	0.27	0.28	1.52	1.07	0.42	0.11



Stellar Parameters For KIC 006758917

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5708^{+154}_{-154}	$4.578^{+0.032}_{-0.168}$	$-0.340^{+0.300}_{-0.300}$	$0.795^{+0.207}_{-0.069}$	$0.883^{+0.088}_{-0.098}$	$2.479^{+0.416}_{-1.142}$
	+3%/-3%	+1%/-4%	+88%/-88%	+26%/-9%	+10%/-11%	+17%/-46%
Source	PHO1	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 006758917-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$6.68^{+7.38}_{-4.68}$	2835^{+176}_{-109}	3924^{+17959}_{-21110}	$2.011^{+384.362}_{-257.663}$
Alt.	-5 ± 11	$6.43^{+6.61}_{-4.52}$	2861^{+169}_{-119}	-2984^{+146}_{-130}	$0.005^{+0.093}_{-0.021}$

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 $A_{obs} \gg 1.0$

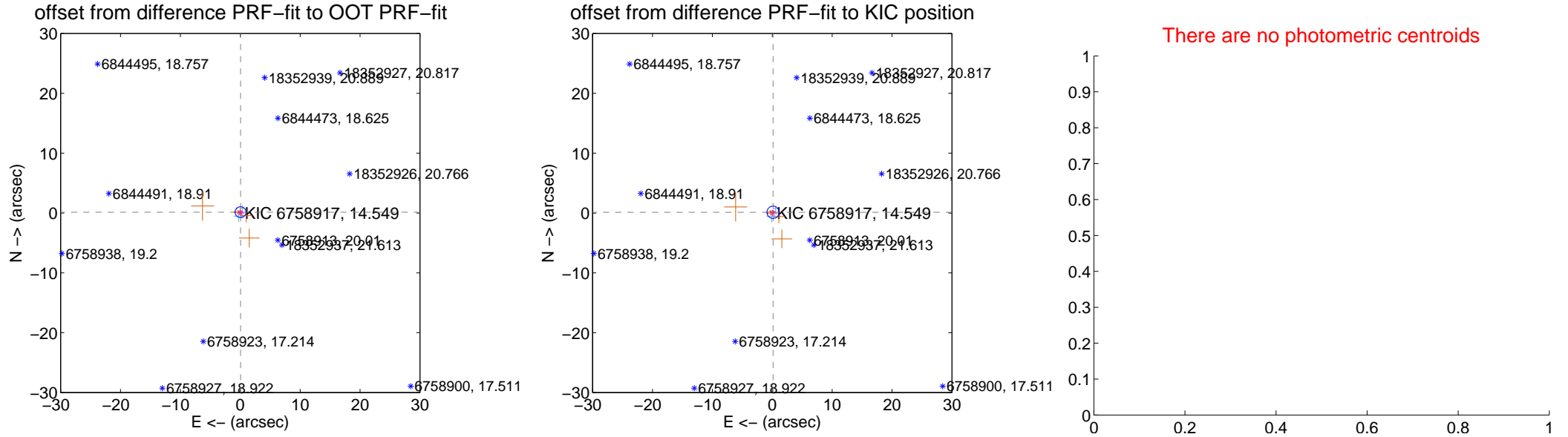
DV Centroid Data

Supplemental centroid analysis for 006758917-07. Kepler magnitude: 14.55. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

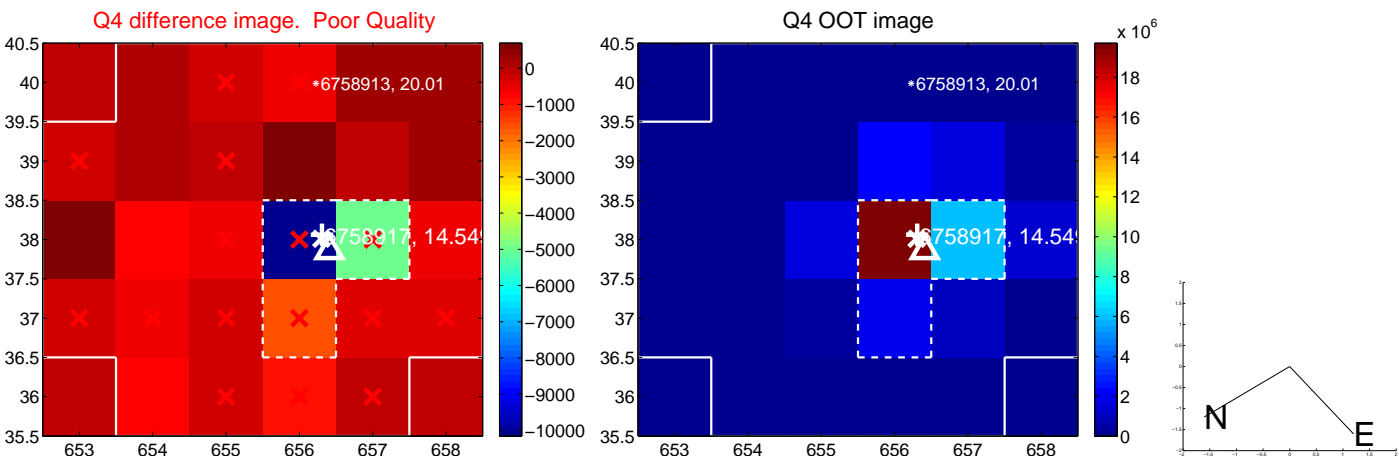
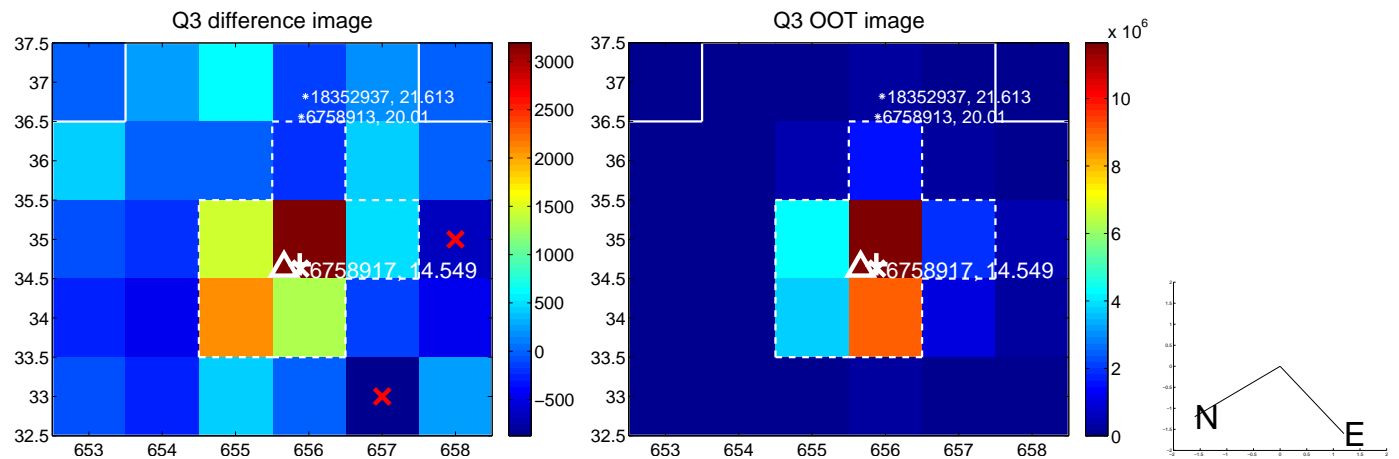
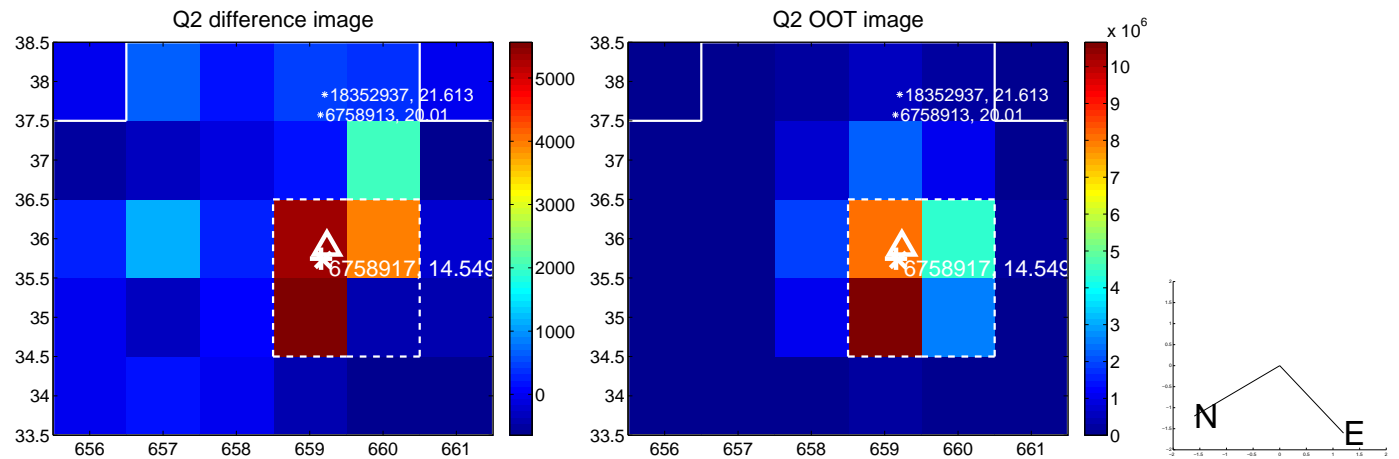
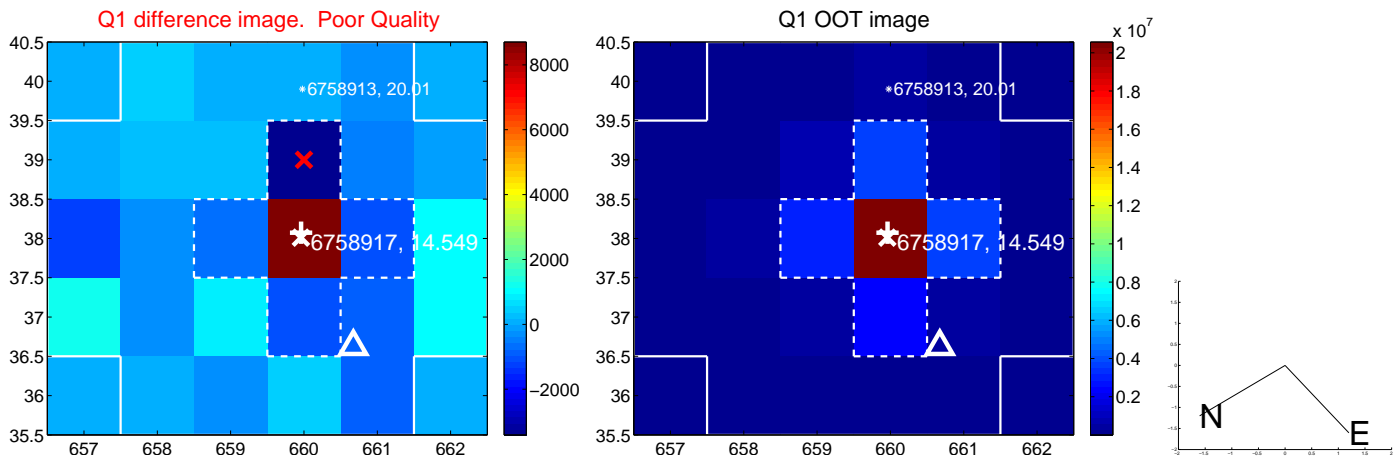
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.145 ± 0.303	0.48	-0.044 ± 0.507	0.138 ± 0.361
PRF-fit source offset from KIC position	0.187 ± 0.341	0.55	-0.142 ± 0.510	0.122 ± 0.333
photometric centroid source offset	—	—	—	—

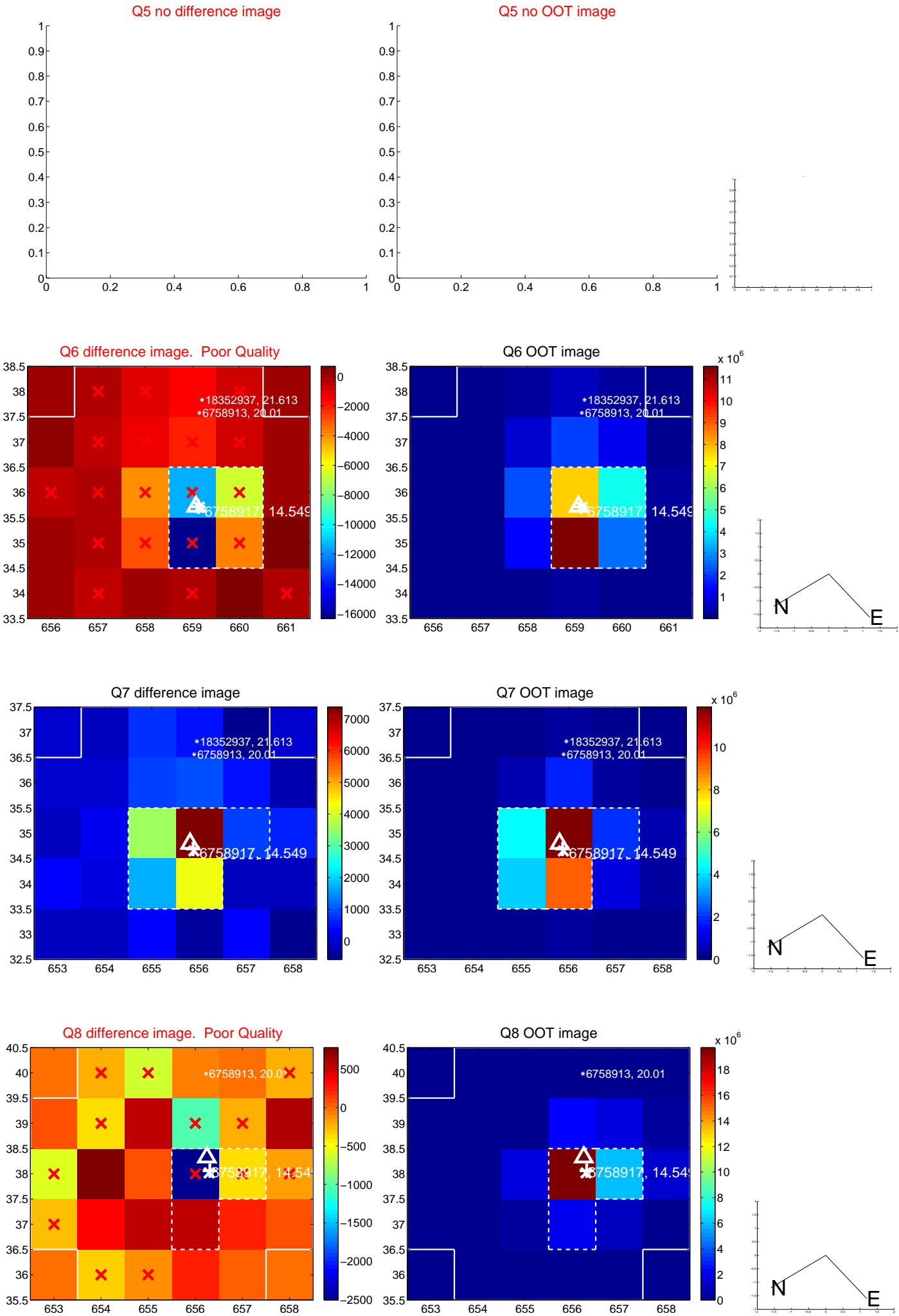


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

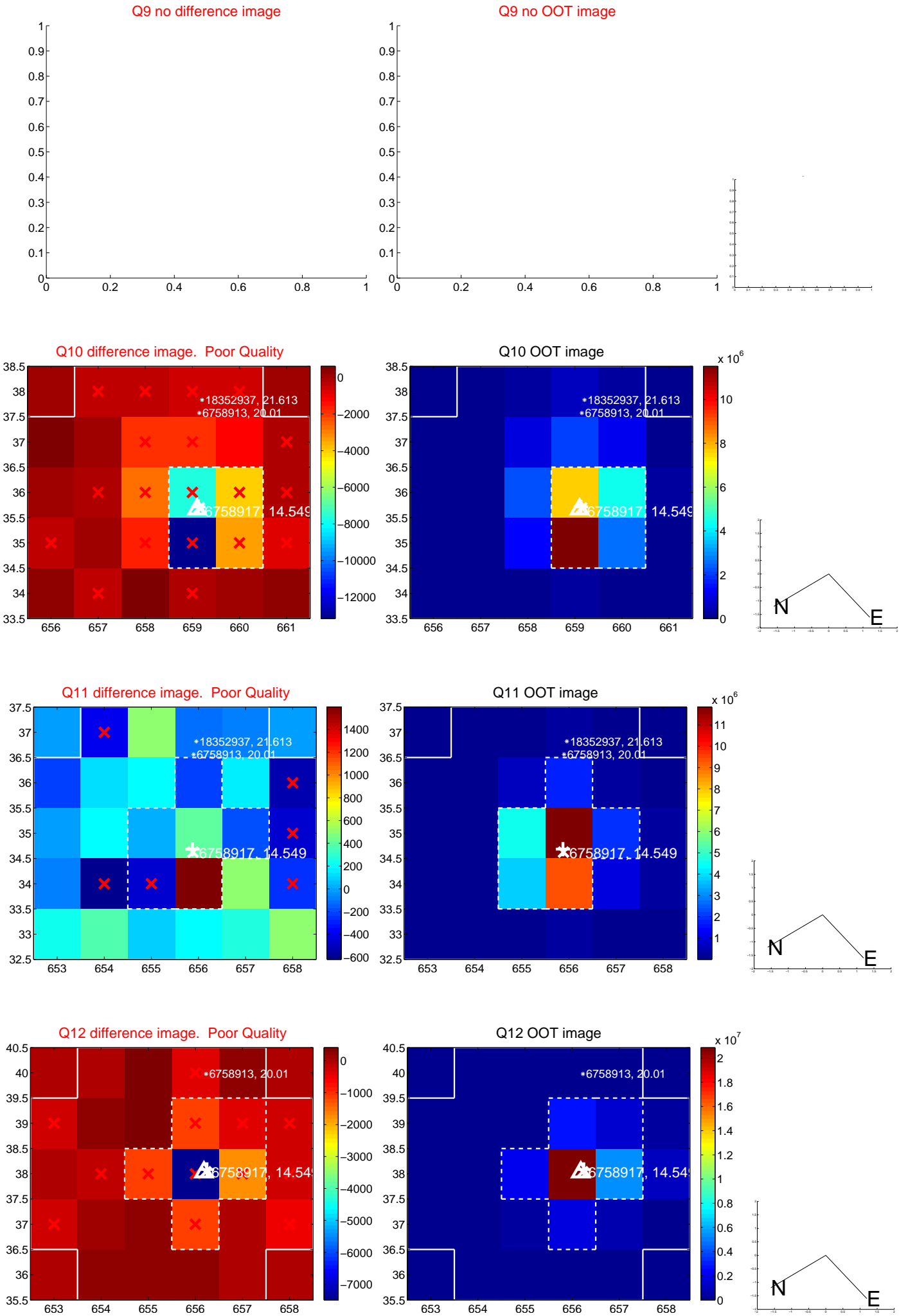
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



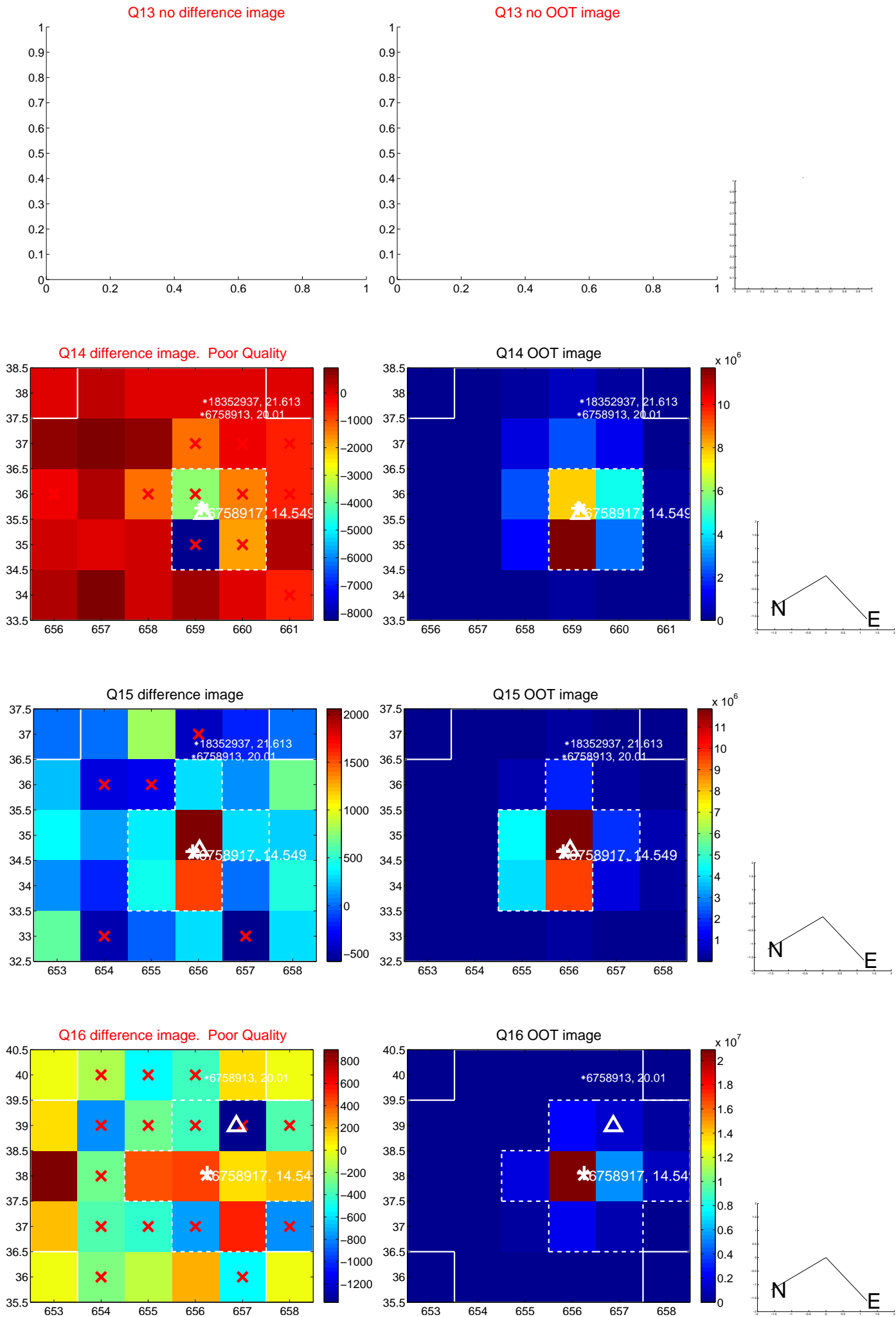
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

