

KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

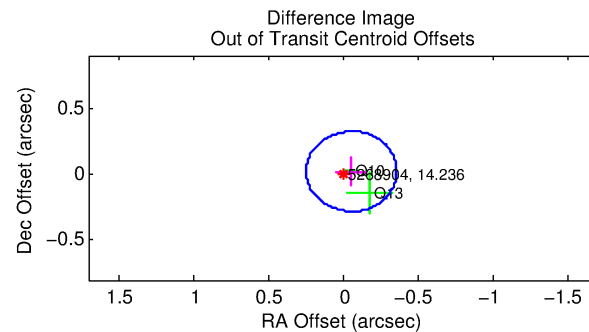
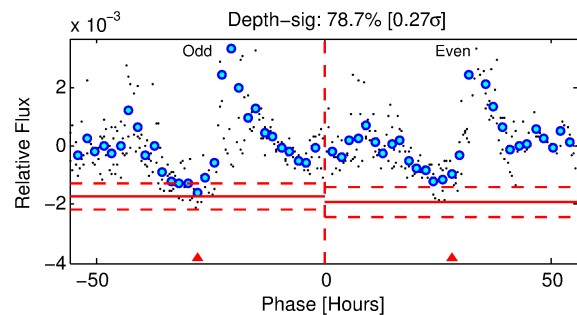
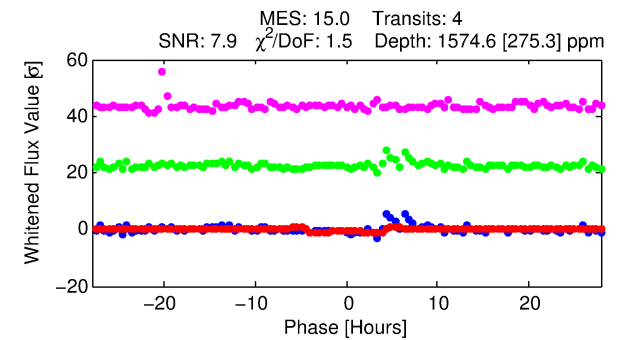
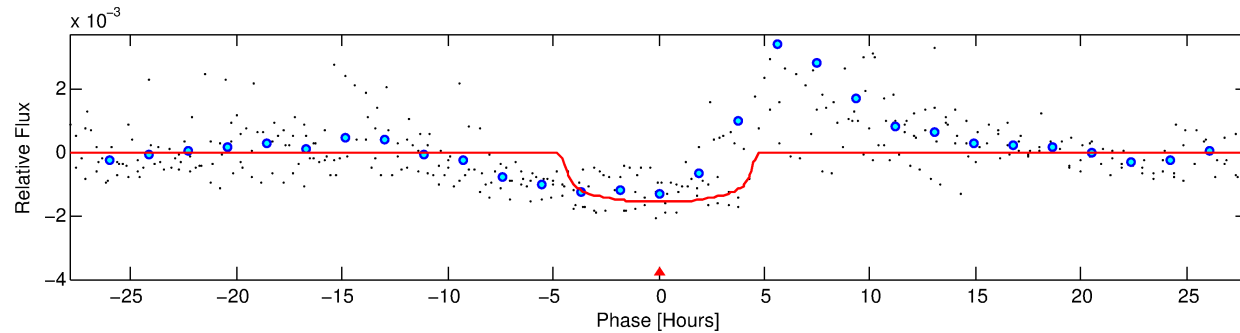
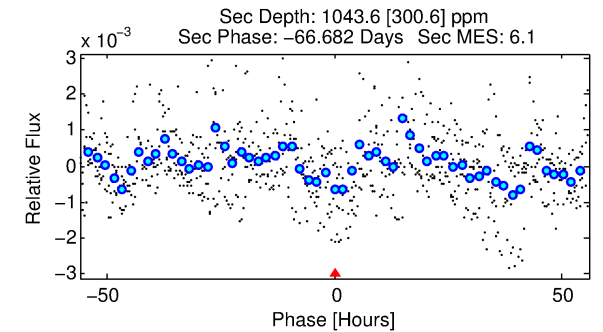
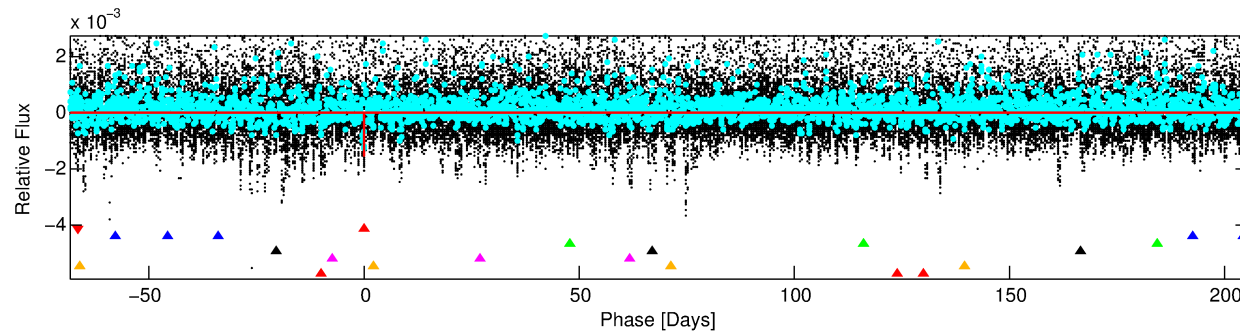
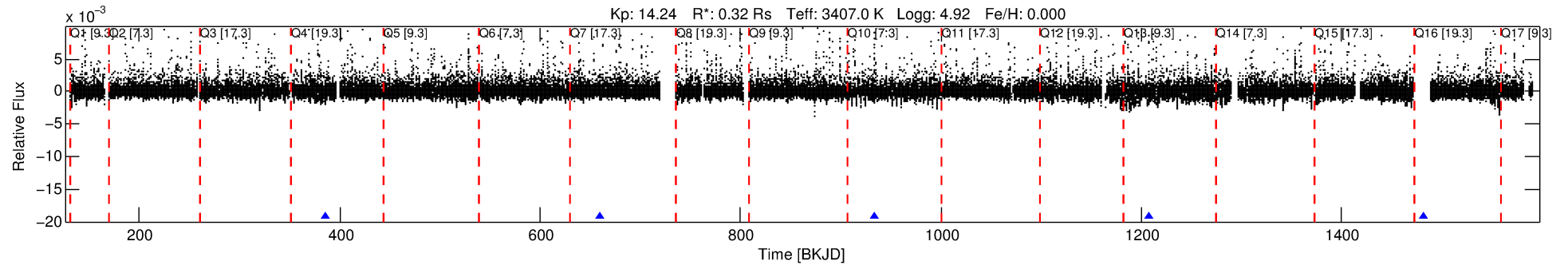
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-01

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 1 of 7 Period: 274.130 d



DV Fit Results:

Period = 274.12982 [0.00442] d
Epoch = 385.5453 [0.0090] BKJD
Rp/R* = 0.0366 [0.0149]
a/R* = 214.49 [344.65]
b = 0.41 [3.28]
Seff = 0.04 [0.01]
Teq = 114 [4] K
Rp = 1.29 [0.56] Re
a = 0.5654 [0.0627] AU
Ag = 109712.03 [95827.69] [1.14 sigma]
Teffp = 3202 [692] K [4.46 sigma]

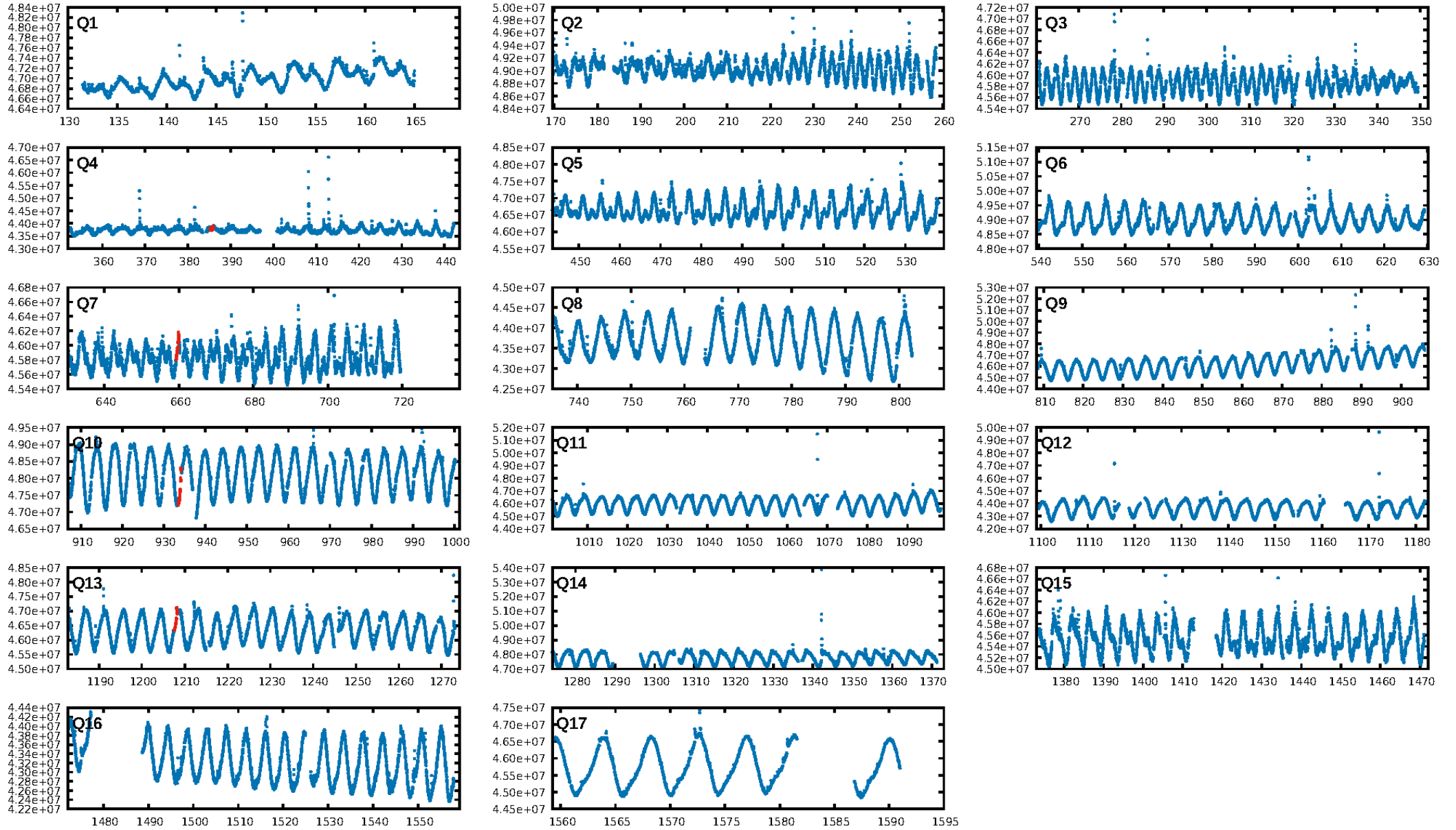
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [26.96 sigma]
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 76.3%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 3.707
Centroid-sig: 0.0%
Centroid-so: 0.140 arcsec [0.43 sigma]
OotOffset-rm: 0.063 arcsec [0.62 sigma]
KicOffset-rm: 0.735 arcsec [7.10 sigma]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

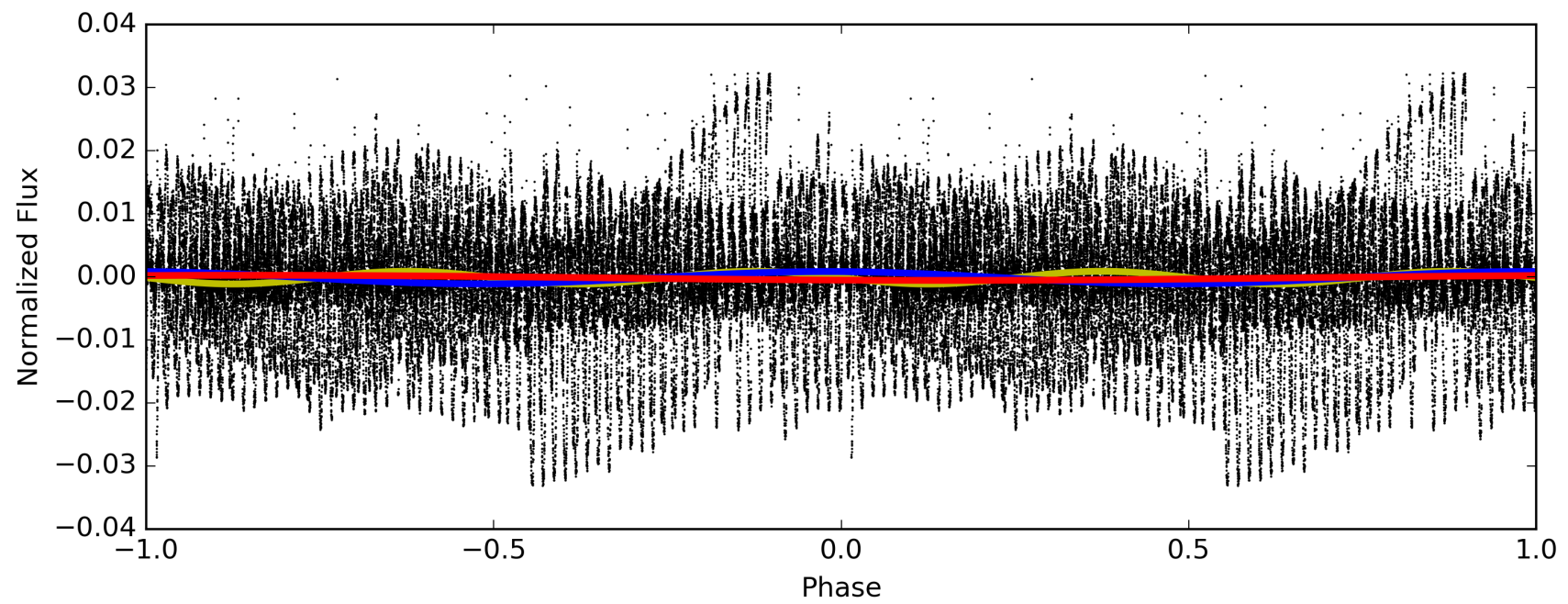
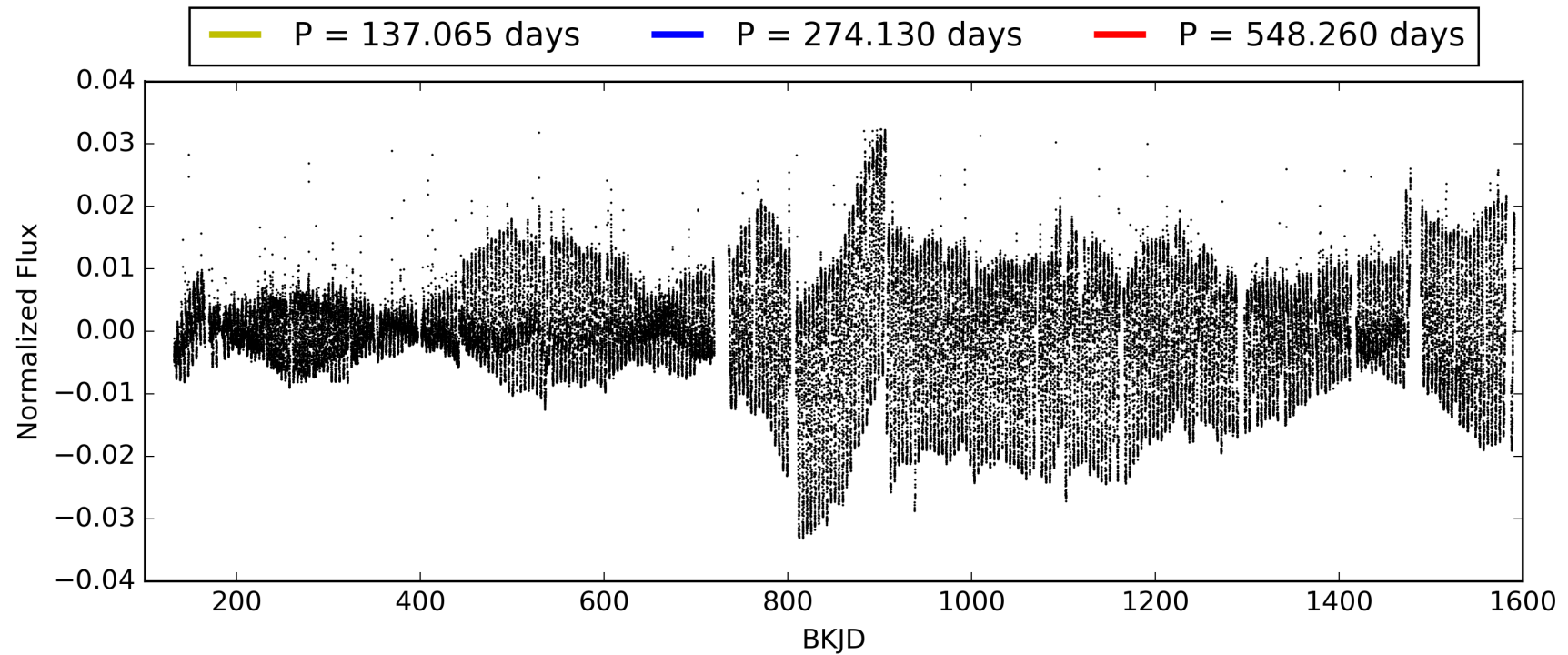
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005268904-01, PDC Light Curves

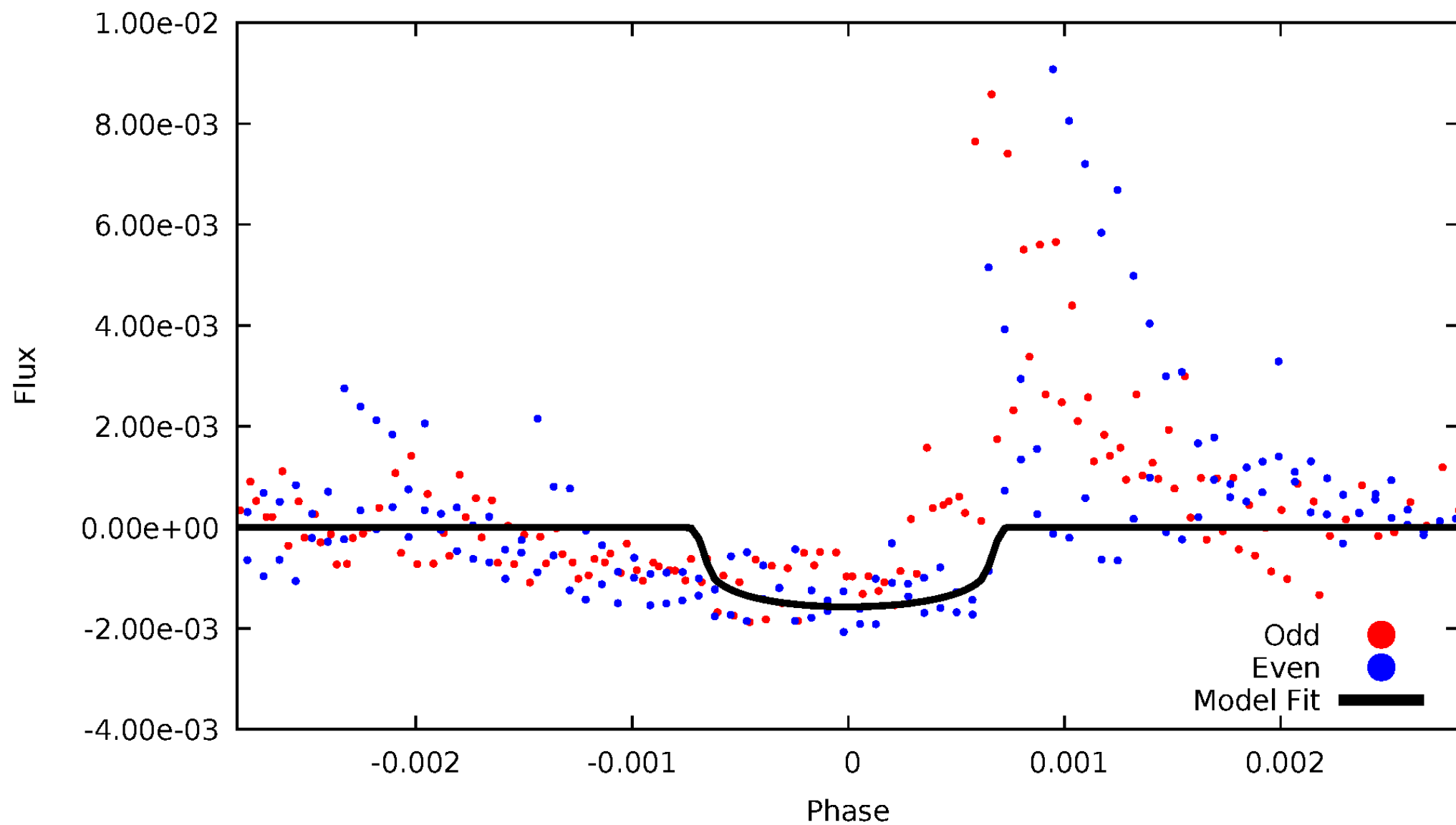


TCE 005268904-01



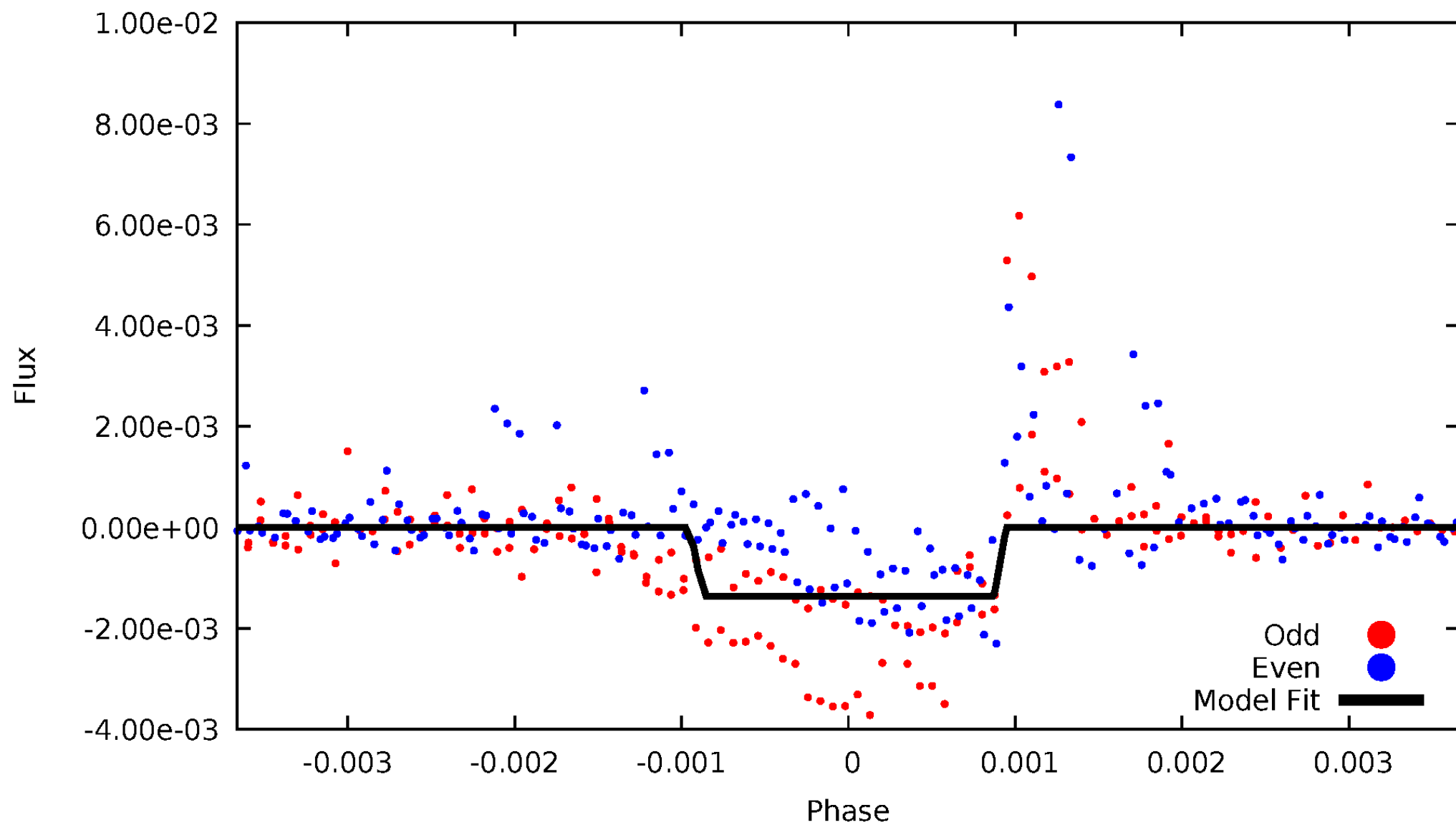
DV Odd/Even

TCE 005268904-01



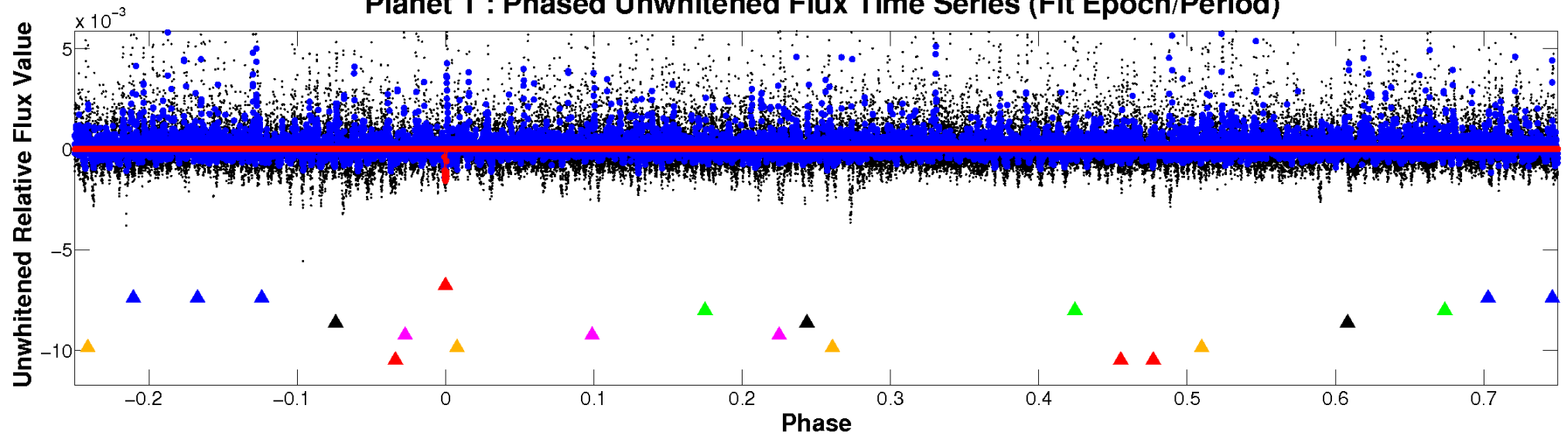
ALT Odd/Even

TCE 005268904-01

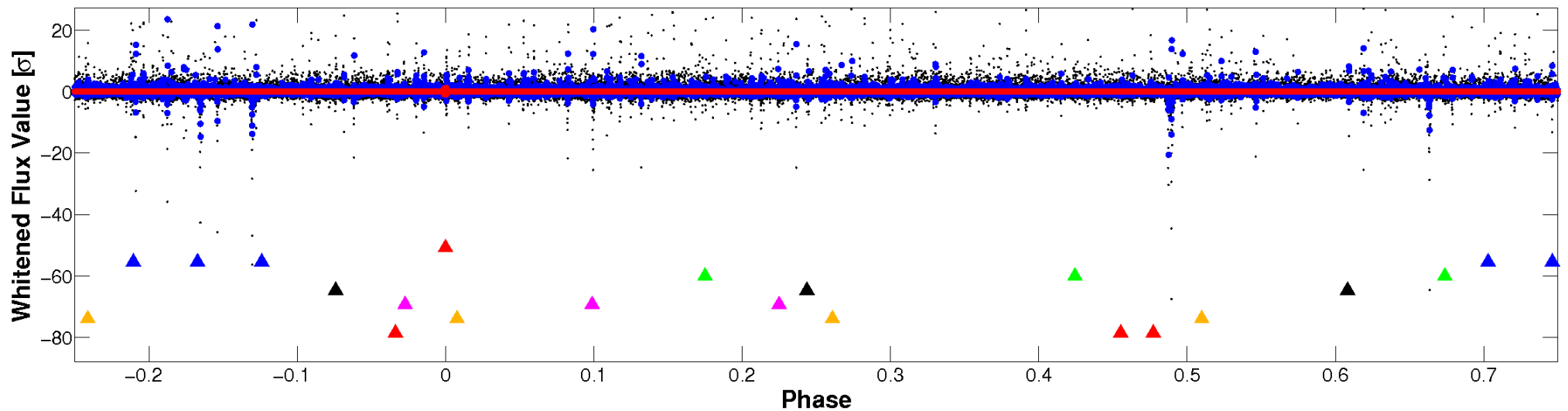


Non-Whitened Vs. Whitened Light Curve

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

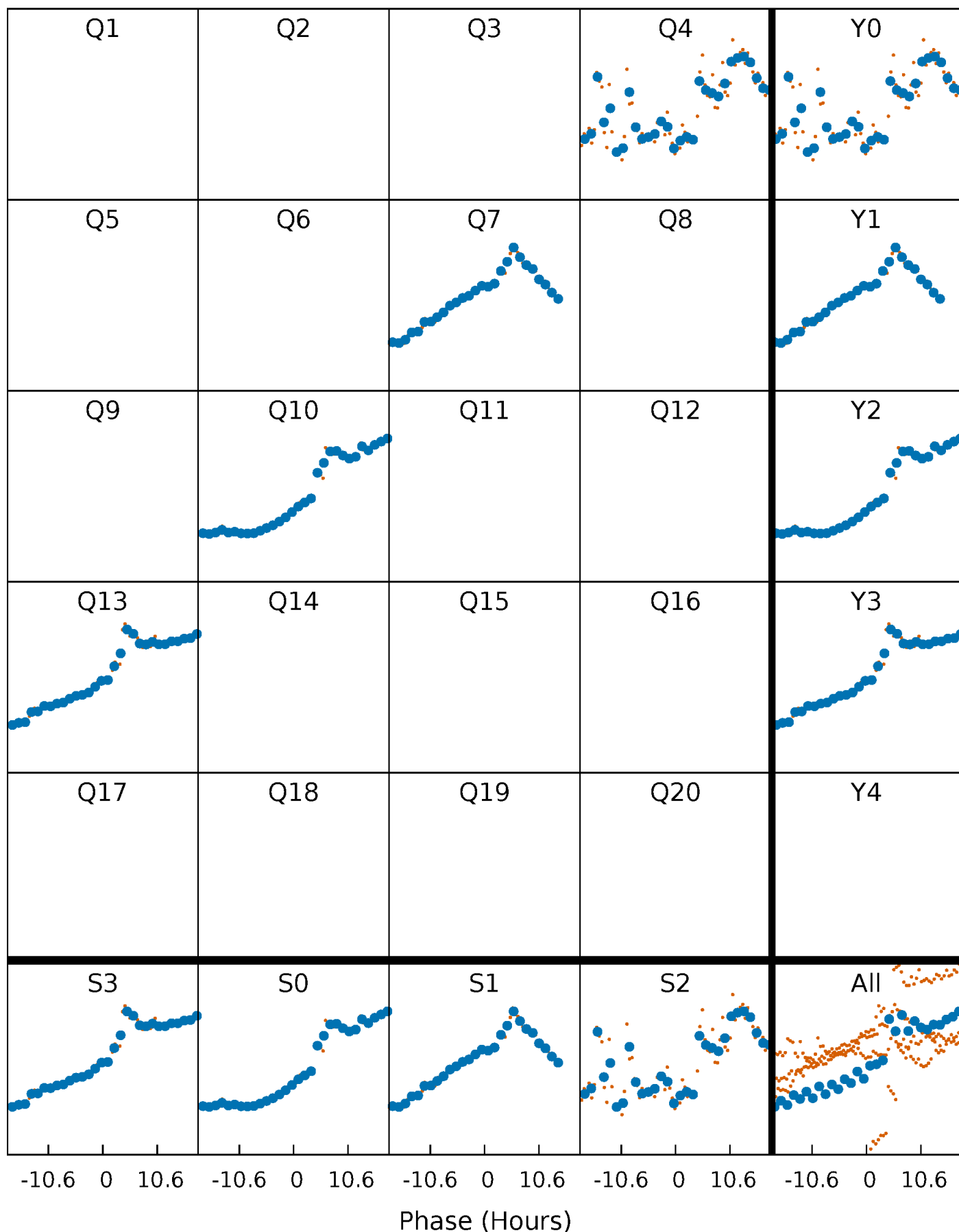


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



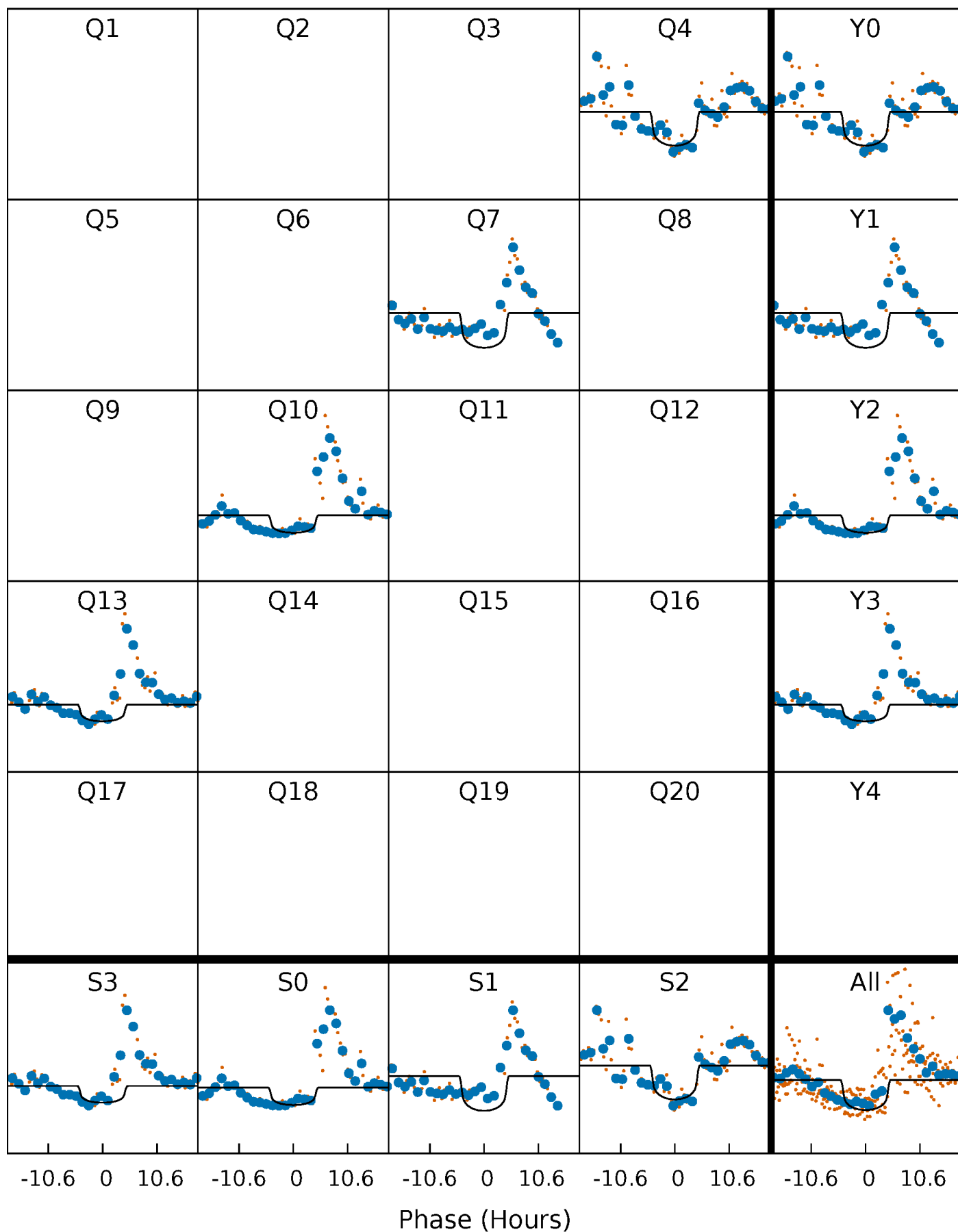
PDC Quarter-Phased Transit Curves

TCE 005268904-01 P=274.129821 Days $T_0=385.545318$ (BKJD)



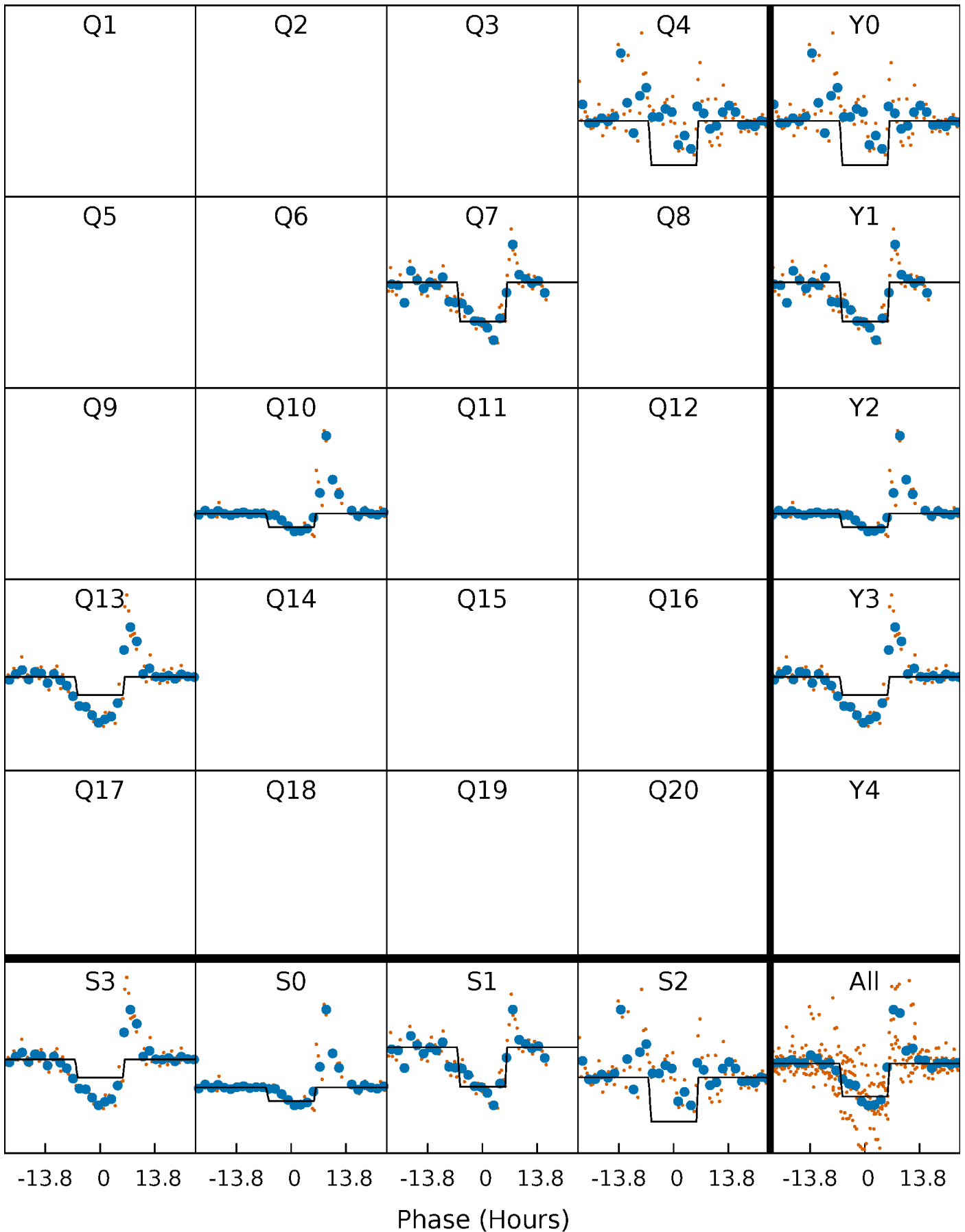
DV Quarter-Phased Transit Curves

TCE 005268904-01 P=274.129821 Days $T_0=385.545318$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

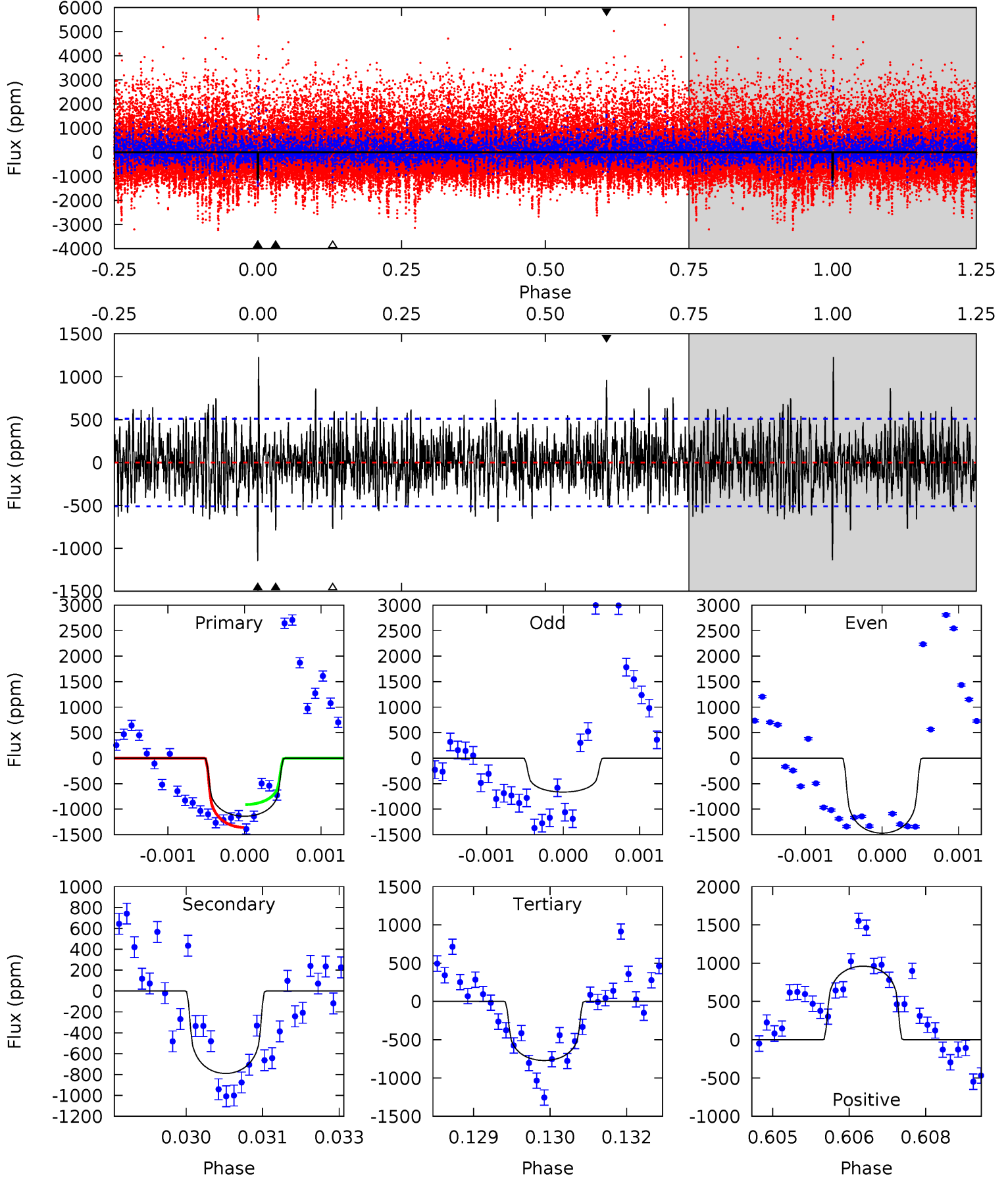
TCE 005268904-01 P=274.116207 Days $T_0=385.486806$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-01, P = 274.129821 Days, E = 111.415497 Days

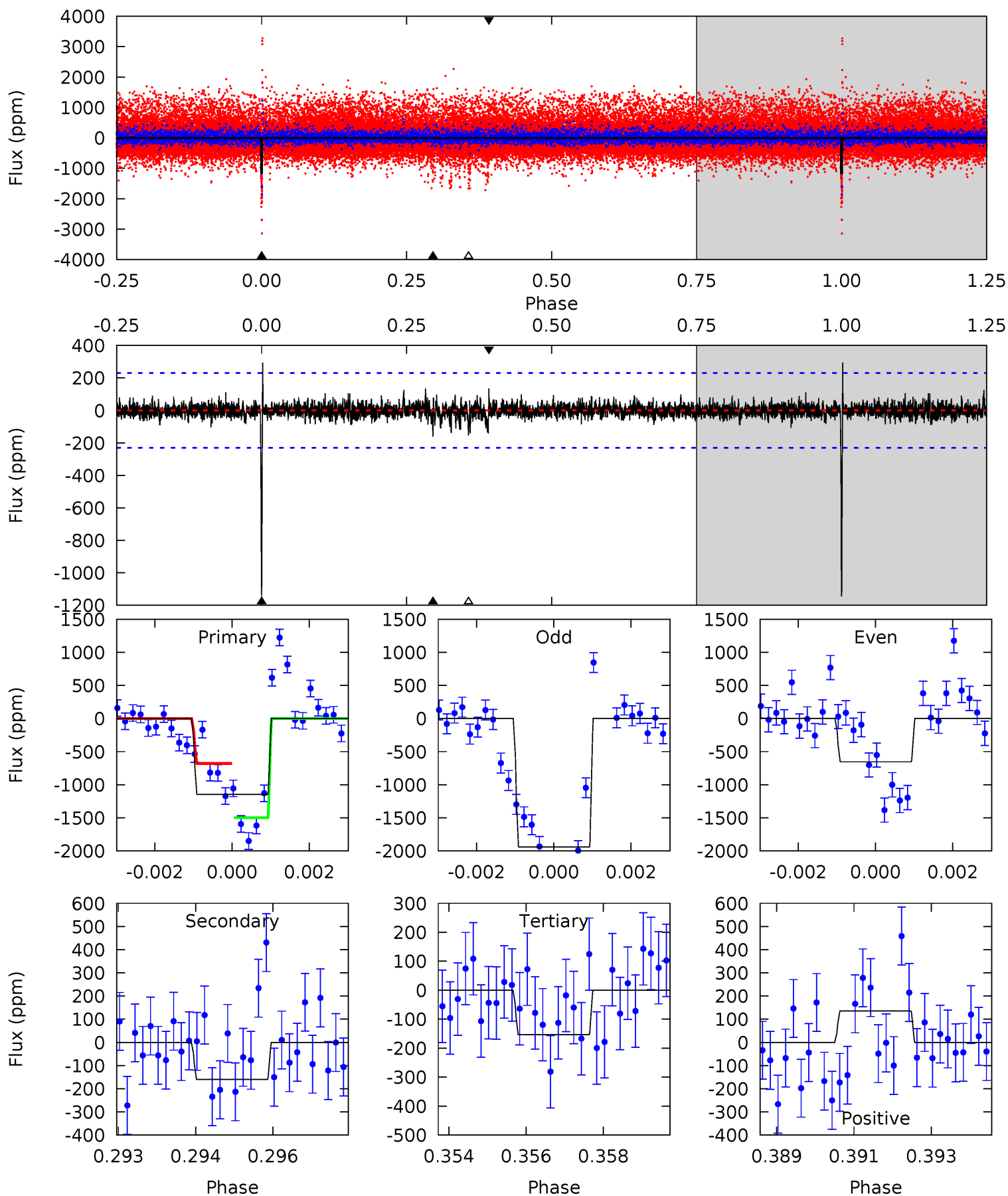
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.0	8.33	8.14	10.1	5.39	3.19	2.56	3.87	1.87	0.19	-1.81	3.90	0.97	0.52	2.38



Alt Model-Shift Uniqueness Test

005268904-01, P = 274.116207 Days, E = 111.370599 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.6	3.71	3.55	3.13	5.34	3.11	0.68	23.0	23.4	0.16	0.58	13.2	1.06	0.20	9.51



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-790 ± 95	$1.29^{+0.51}_{-0.52}$	159^{+4}_{-4}	3147^{+573}_{-291}	$84209^{+161437}_{-41775}$
Alt.	-160 ± 43	$1.30^{+0.53}_{-0.49}$	159^{+4}_{-5}	2534^{+355}_{-223}	16780^{+26788}_{-9025}

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

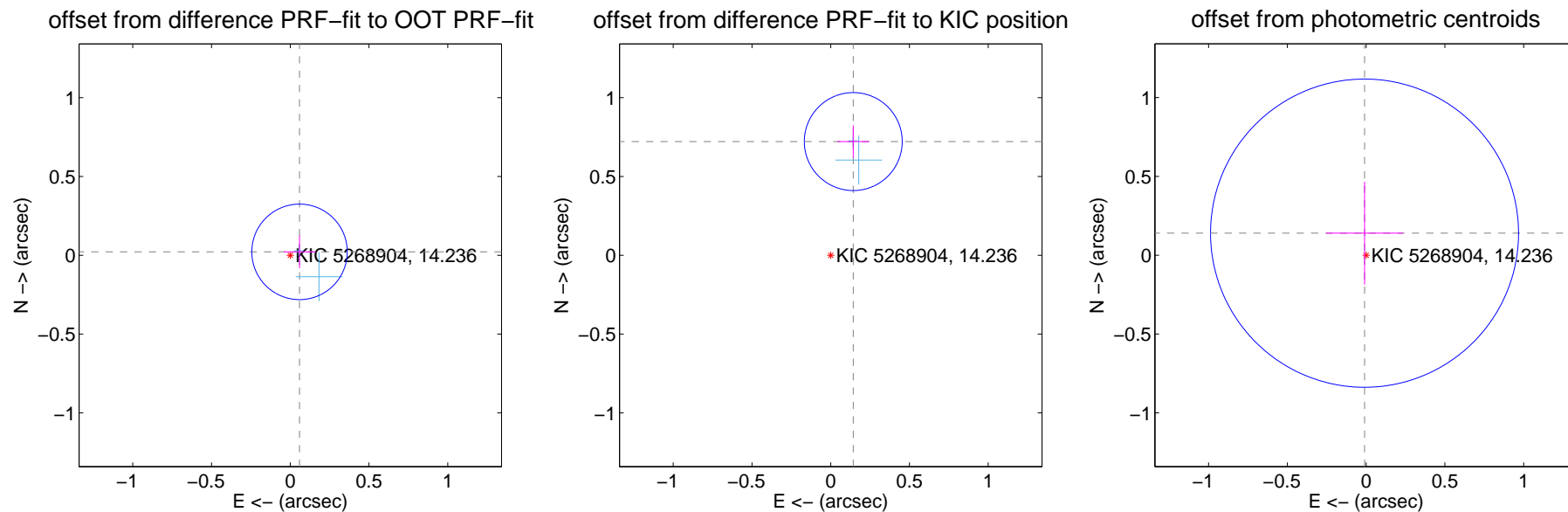
DV Centroid Data

Supplemental centroid analysis for 005268904-01. Kepler magnitude: 14.24. Transit SNR 7.90

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.74 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.063 ± 0.101	0.62	-0.059 ± 0.101	0.022 ± 0.104
PRF-fit source offset from KIC position	0.735 ± 0.104	7.10	-0.143 ± 0.101	0.721 ± 0.104
photometric centroid source offset	0.14 ± 0.33	0.43	0.01 ± 0.24	0.14 ± 0.33



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

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



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

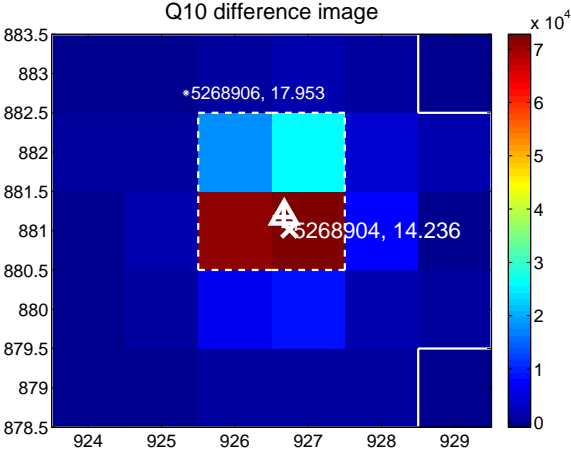
Q9 no difference image



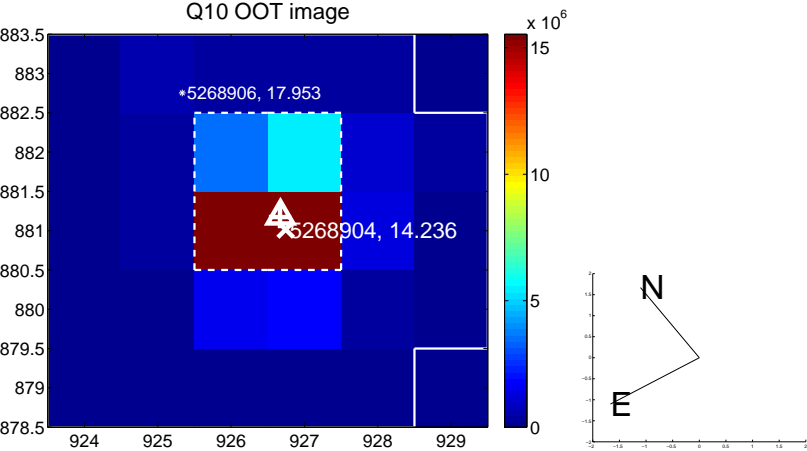
Q9 no OOT image



Q10 difference image



Q10 OOT image



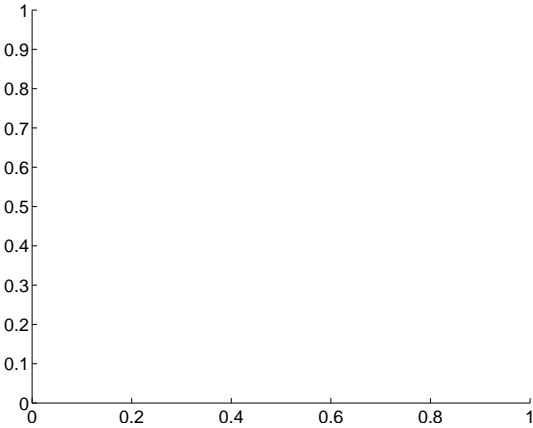
Q11 no difference image



Q11 no OOT image



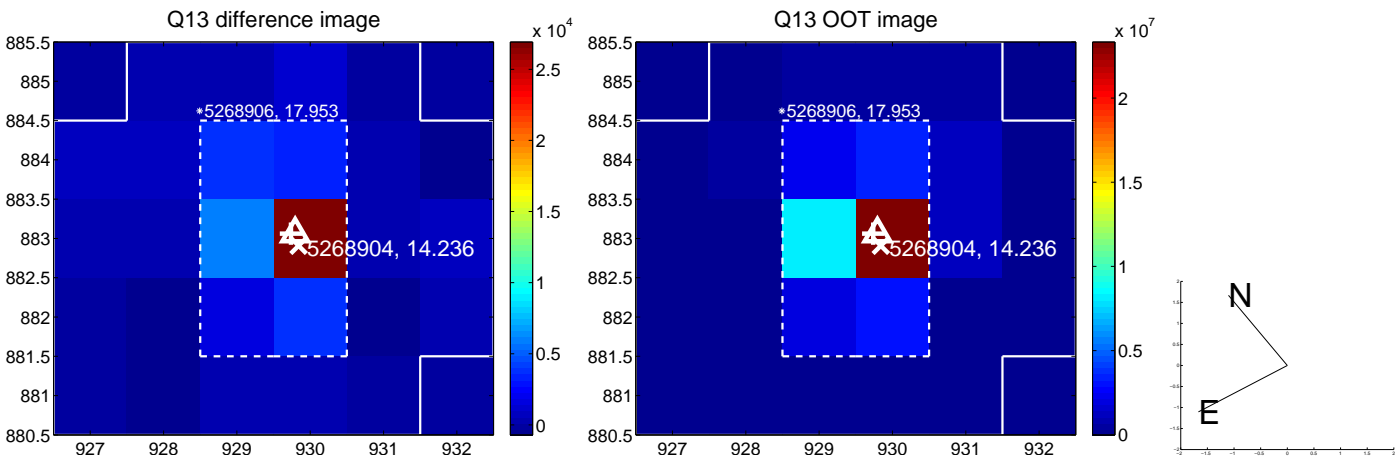
Q12 no difference image



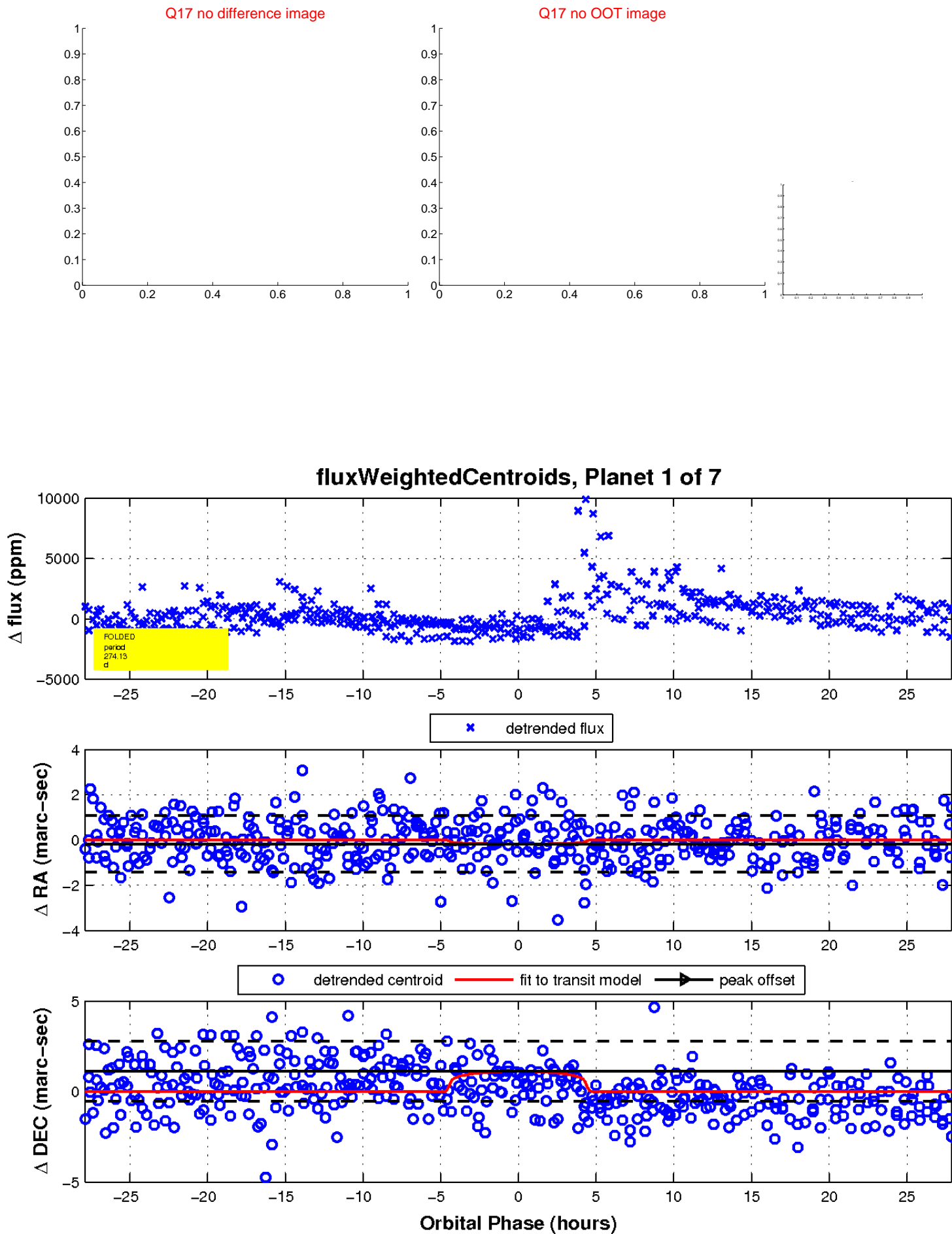
Q12 no OOT image



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

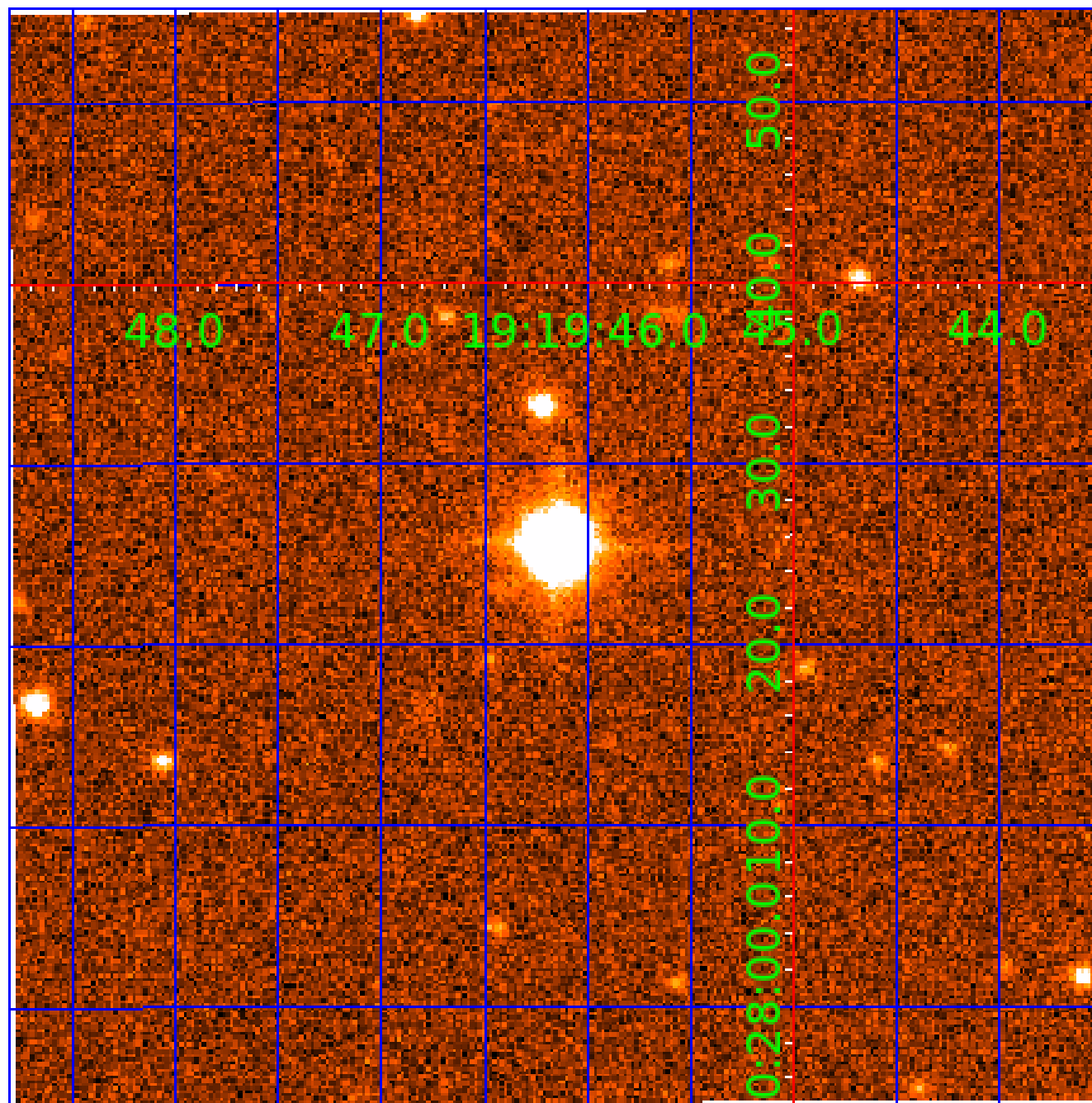


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

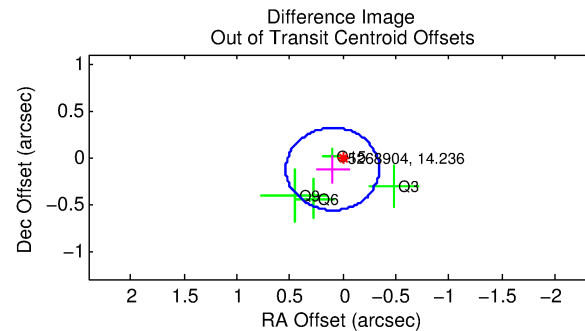
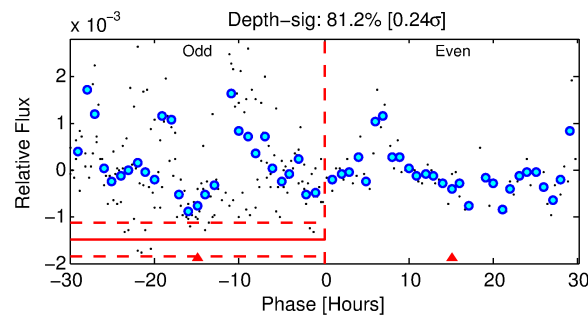
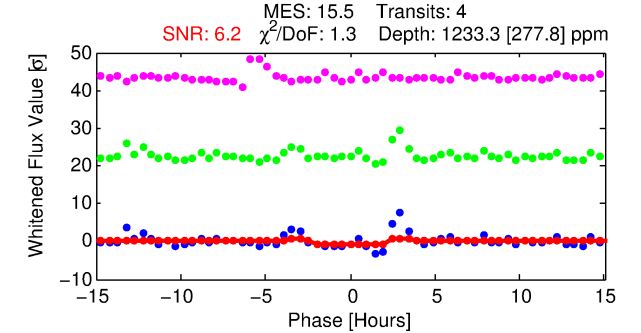
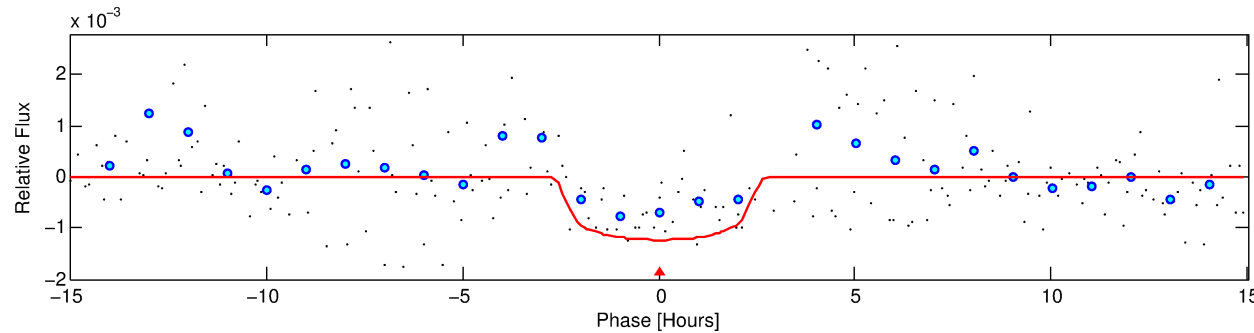
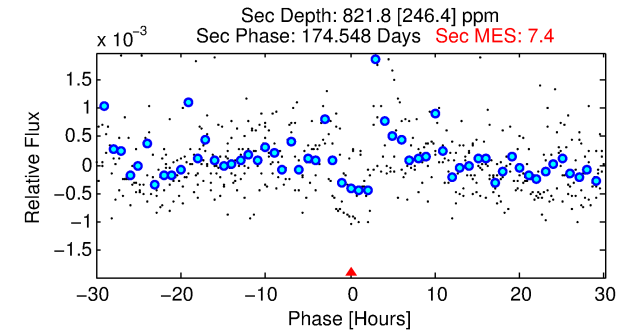
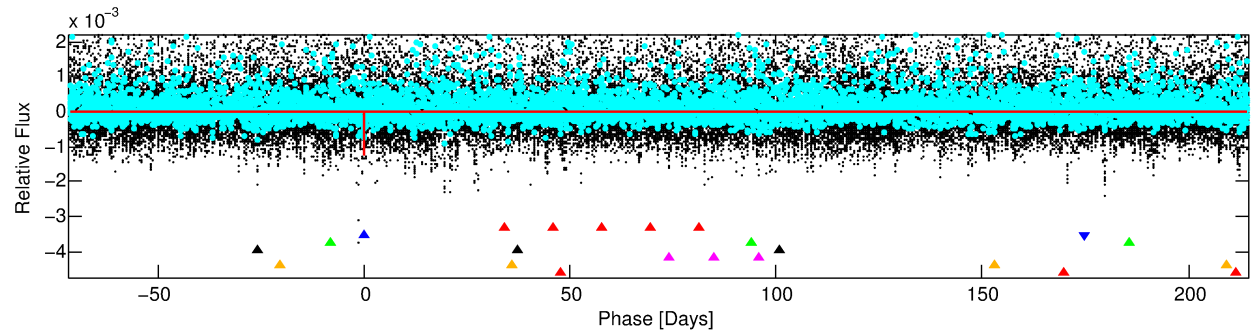
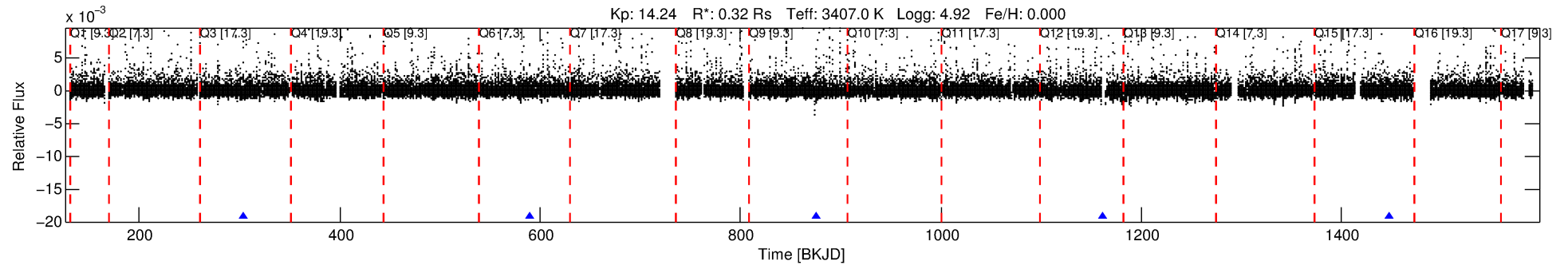
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-02

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 2 of 7 Period: 285.995 d



DV Fit Results:

Period = 285.99521 [0.00355] d
Epoch = 304.1274 [0.0077] BKJD
Rp/R* = 0.0317 [0.0729]
a/R* = 449.17 [4399.90]
b = 0.06 [162.18]
Seff = 0.04 [0.01]
Teq = 112 [4] K
Rp = 1.12 [2.58] Re
a = 0.5816 [0.0645] AU
Ag = 121557.47 [559777.36] [0.22 σ]
Teffp = 3239 [3727] K [0.84 σ]

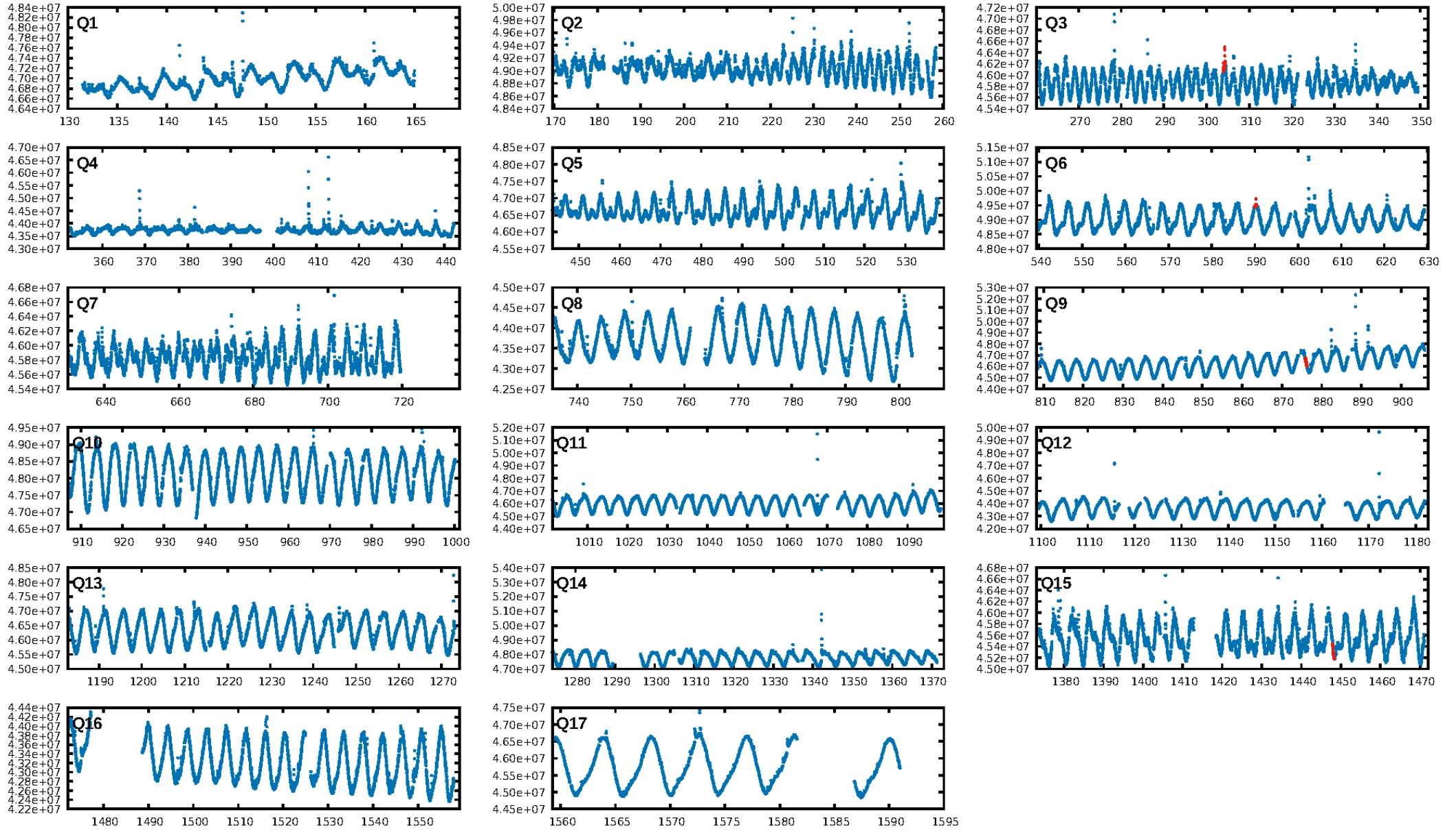
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [26.96 σ]
LongPeriod-sig: 100.0% [215.62 σ]
ModelChiSquare2-sig: 27.3%
ModelChiSquareGof-sig: 86.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 1.527
Centroid-sig: 24.4%
Centroid-so: 0.417 arcsec [0.80 σ]
OotOffset-rm: 0.158 arcsec [1.08 σ]
OotOffset-st: 1/2/0/1 [4]
KicOffset-rm: **0.590 arcsec [3.36 σ]**
KicOffset-st: 1/2/0/1 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 1.00 [4/4]

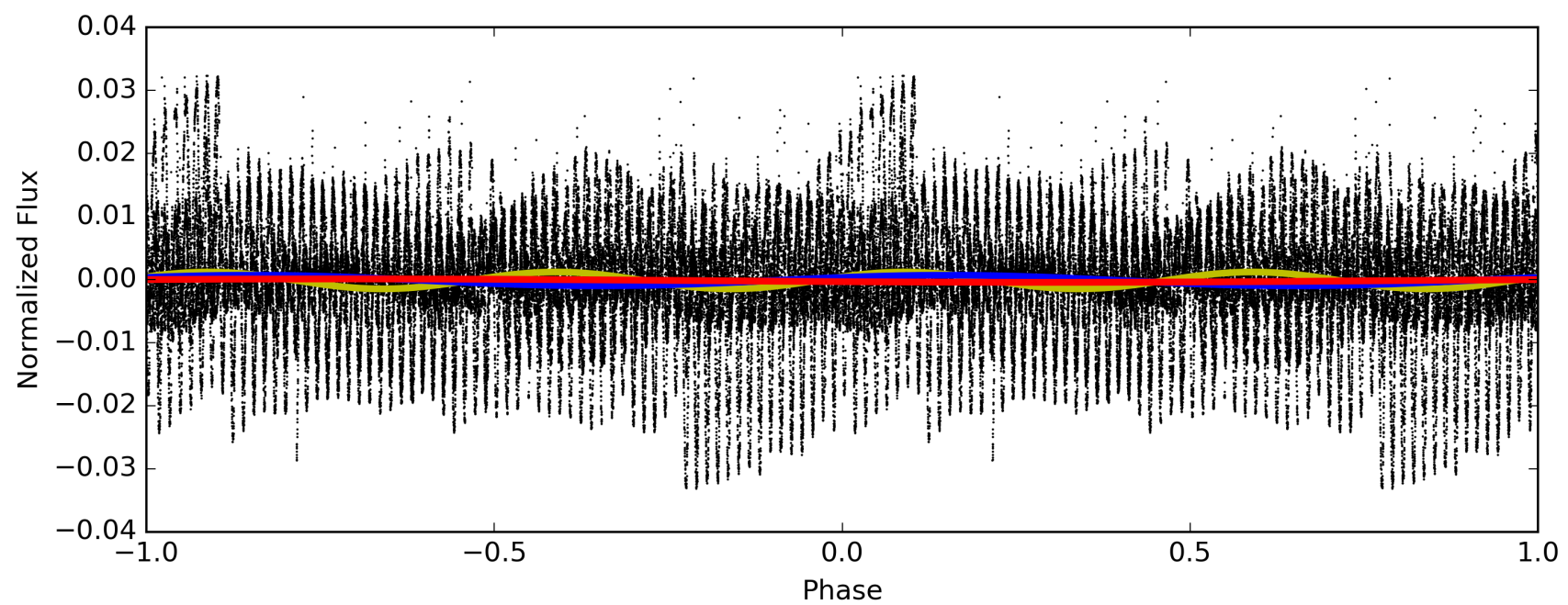
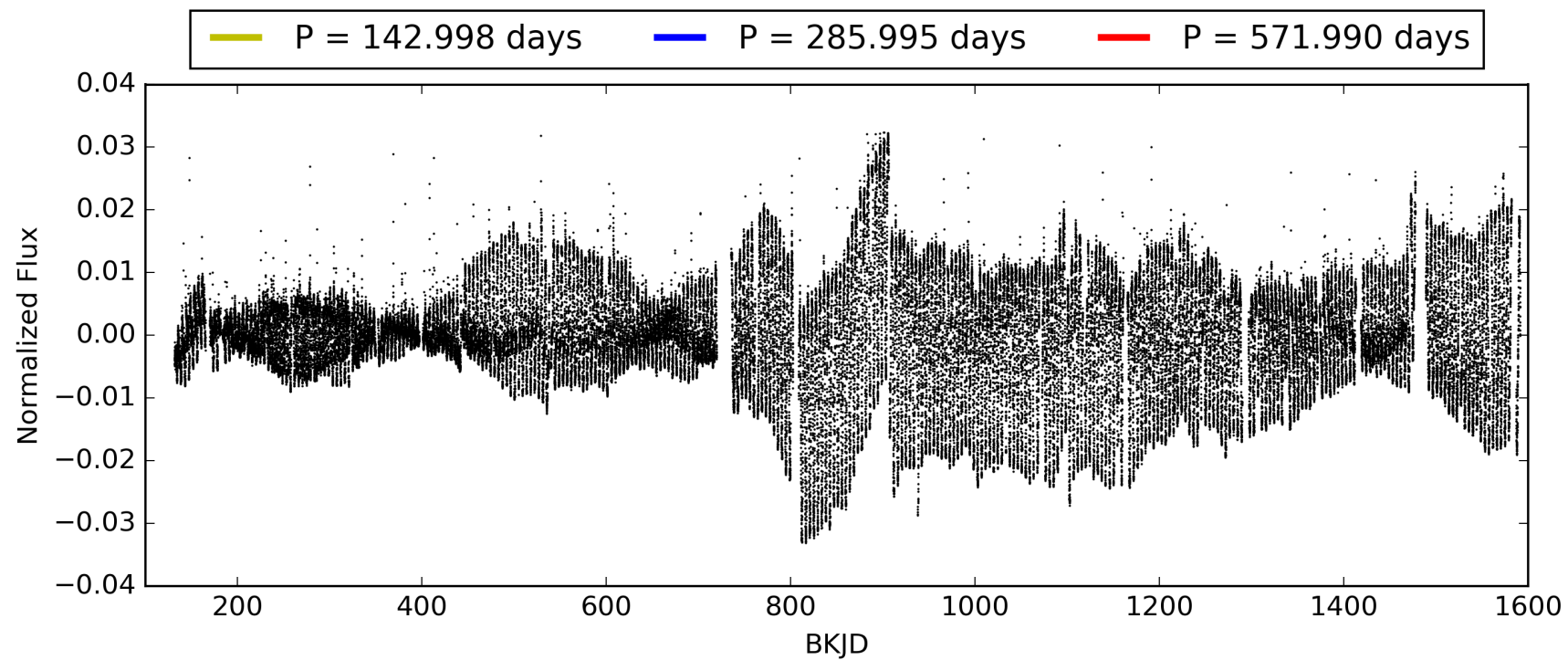
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005268904-02, PDC Light Curves

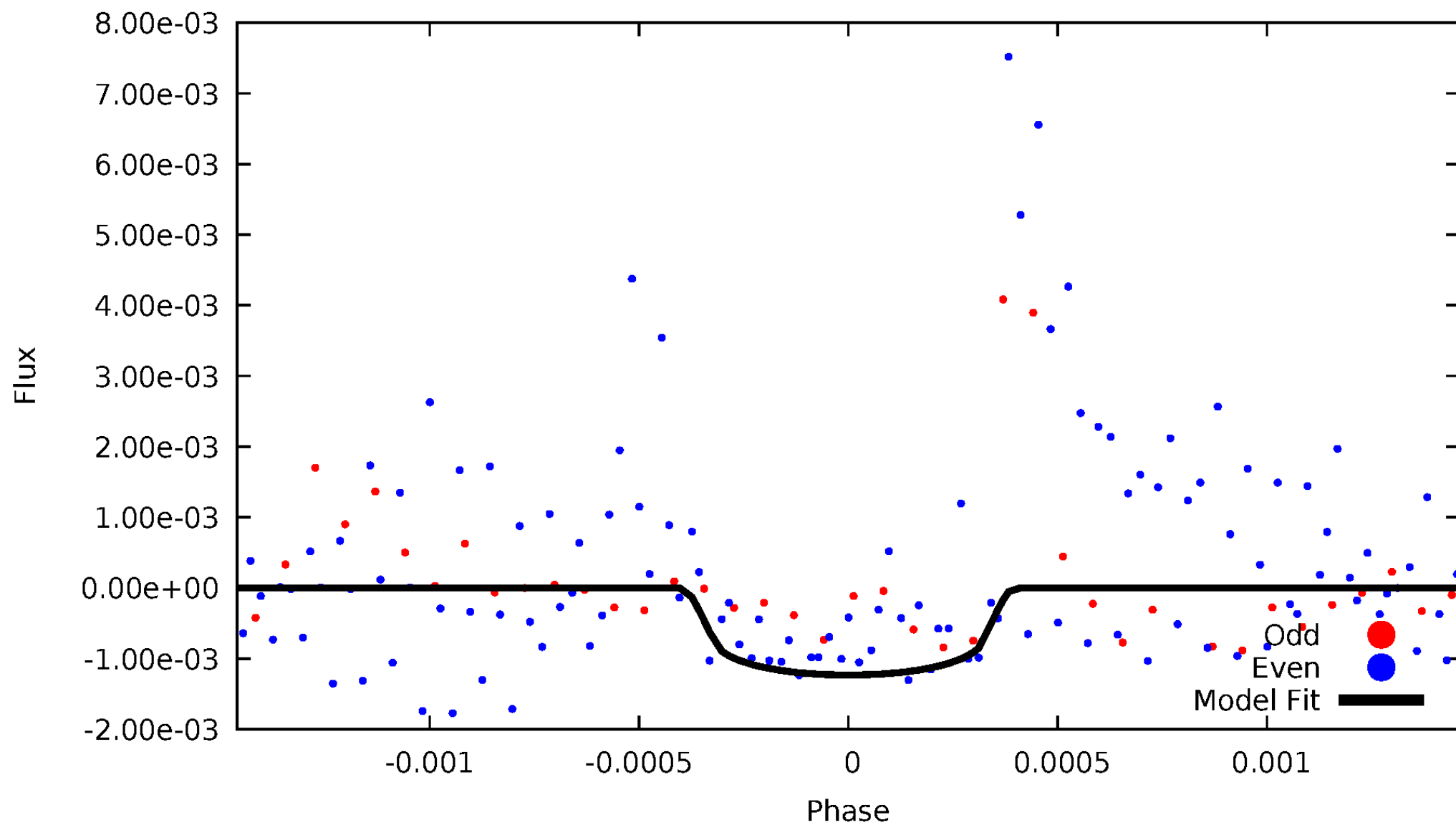


TCE 005268904-02



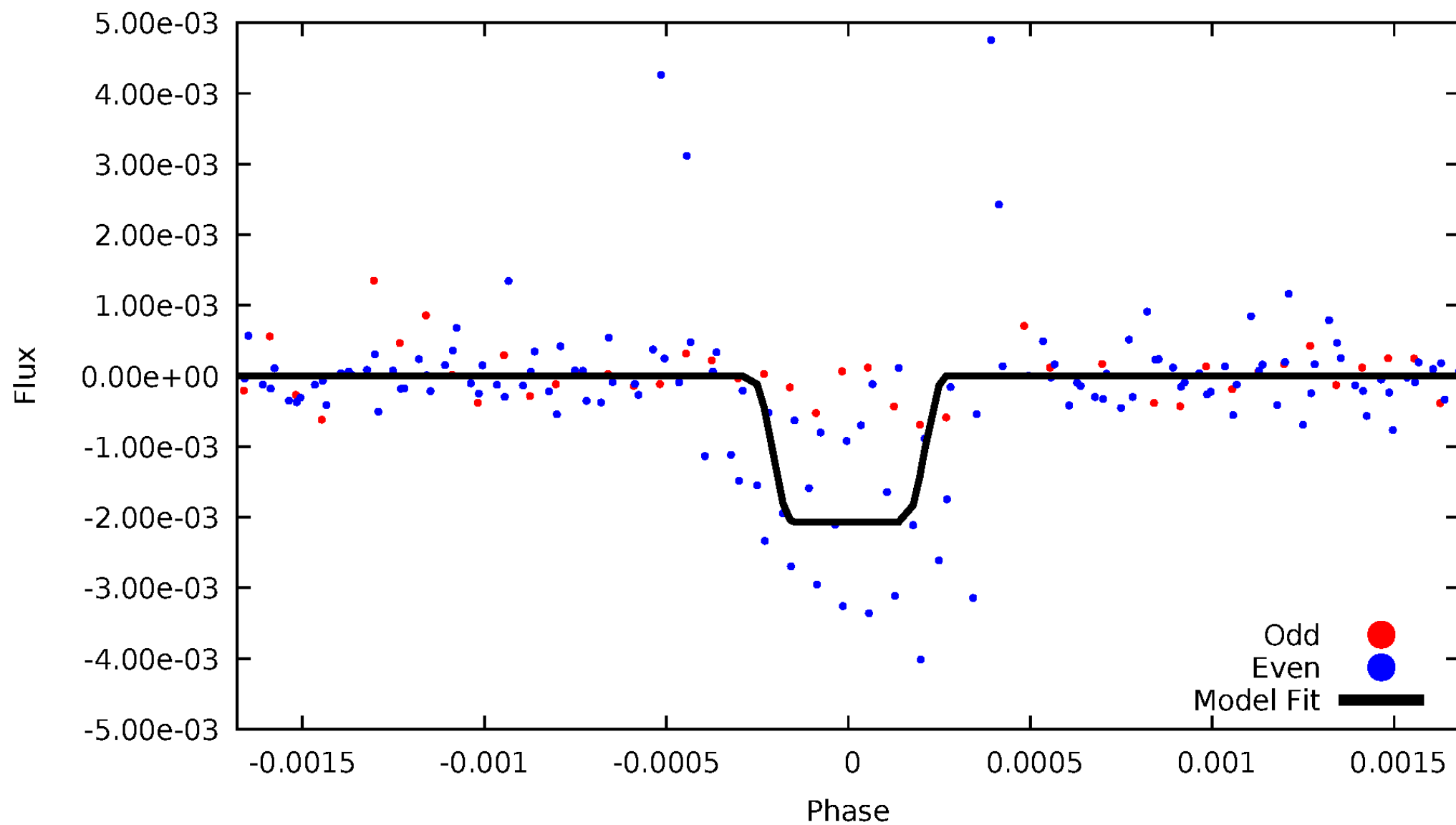
DV Odd/Even

TCE 005268904-02



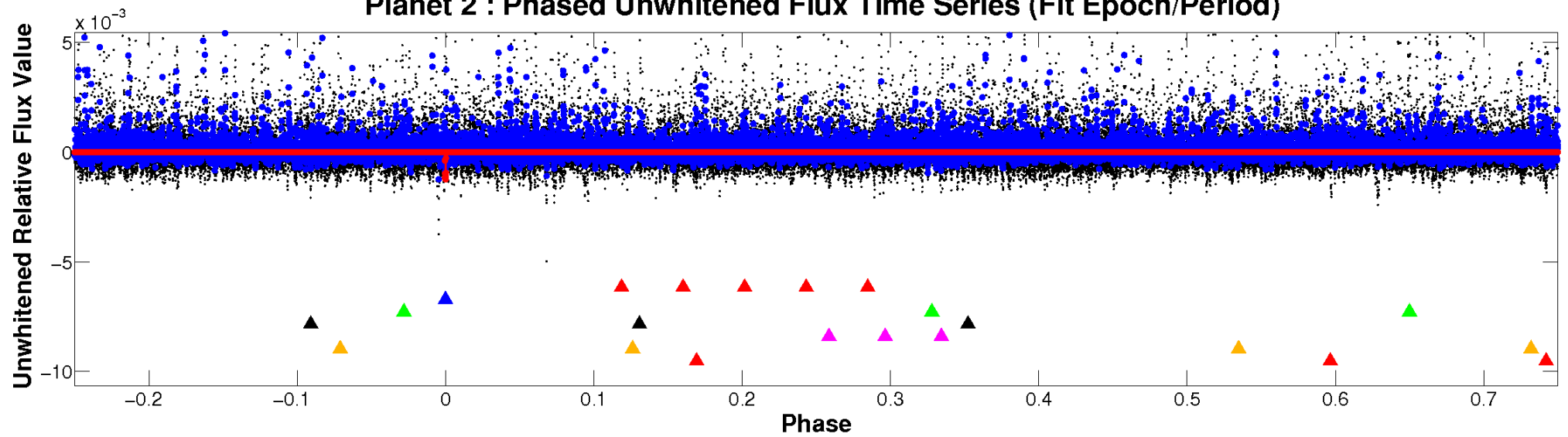
ALT Odd/Even

TCE 005268904-02

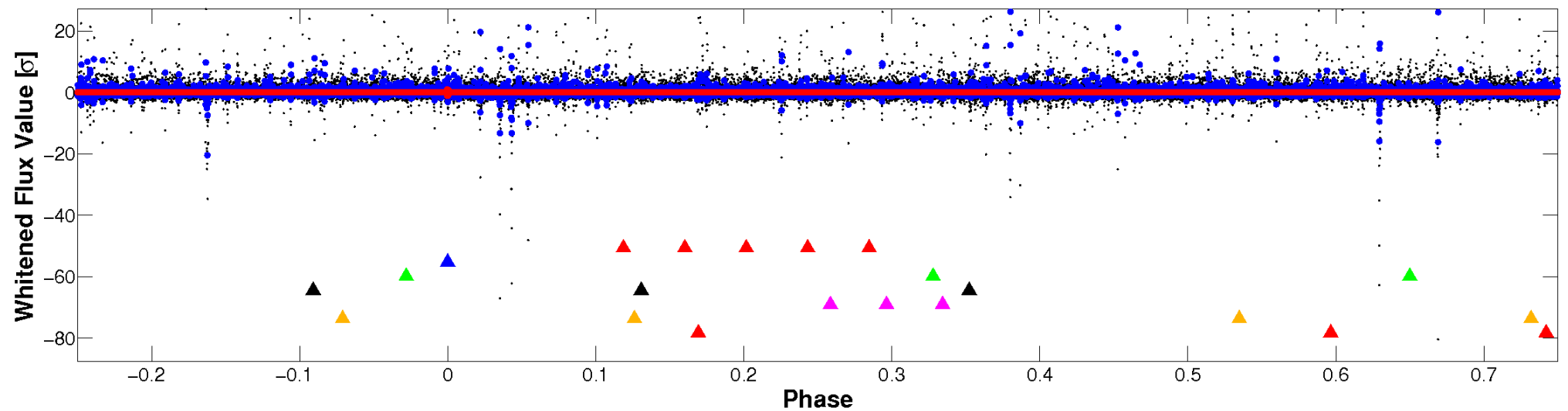


Non-Whitened Vs. Whitened Light Curve

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

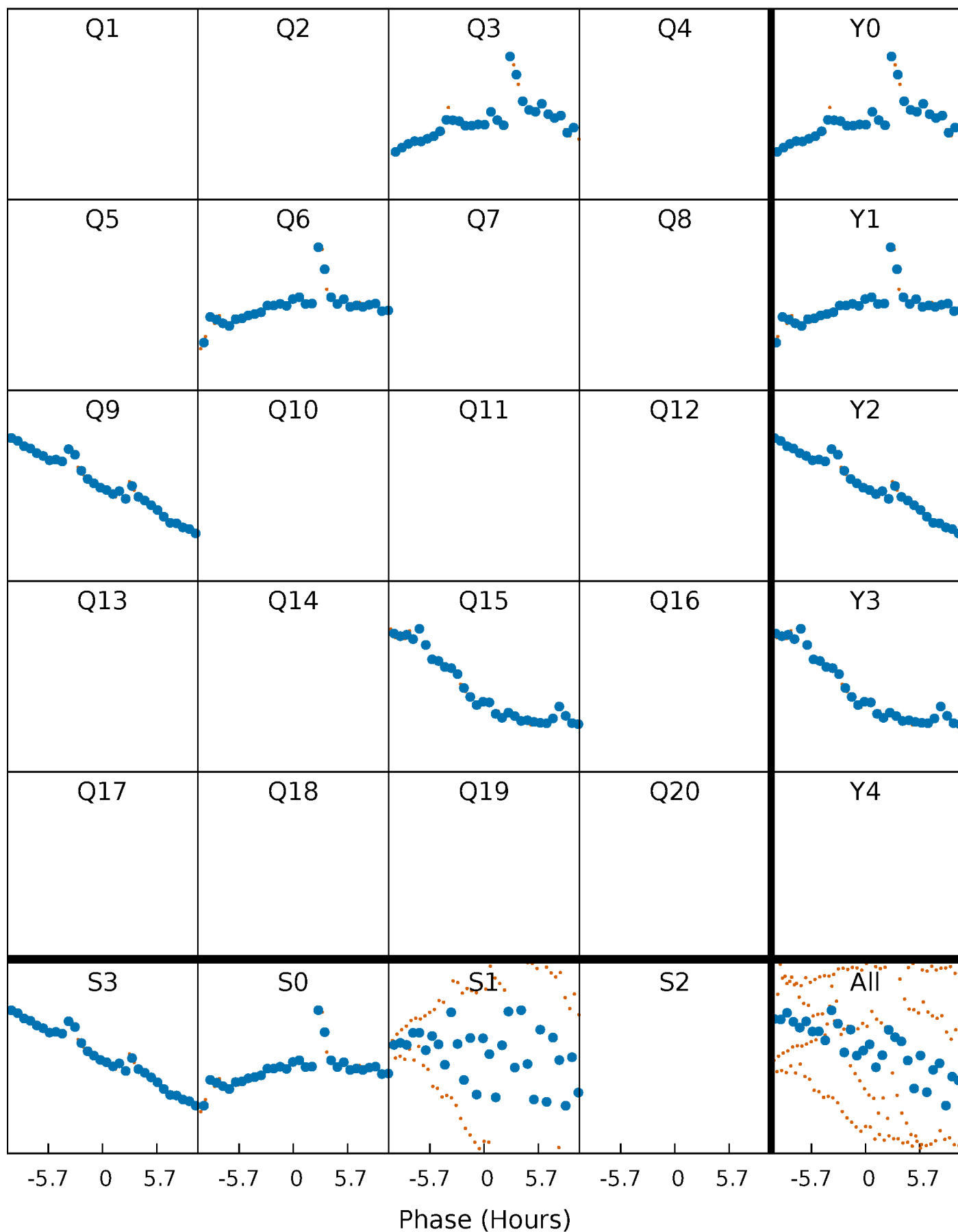


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



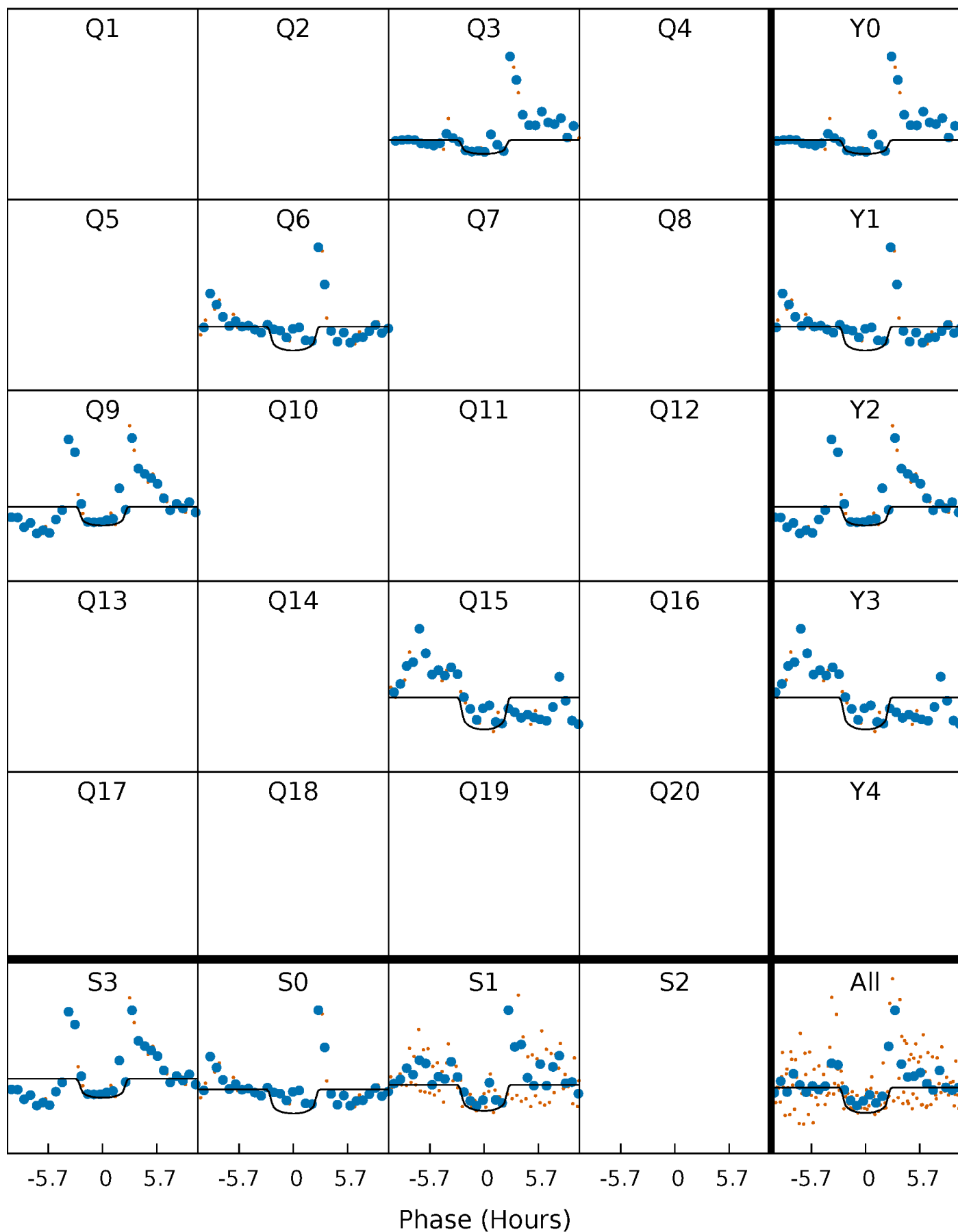
PDC Quarter-Phased Transit Curves

TCE 005268904-02 $P=285.995209$ Days $T_0=304.127430$ (BKJD)



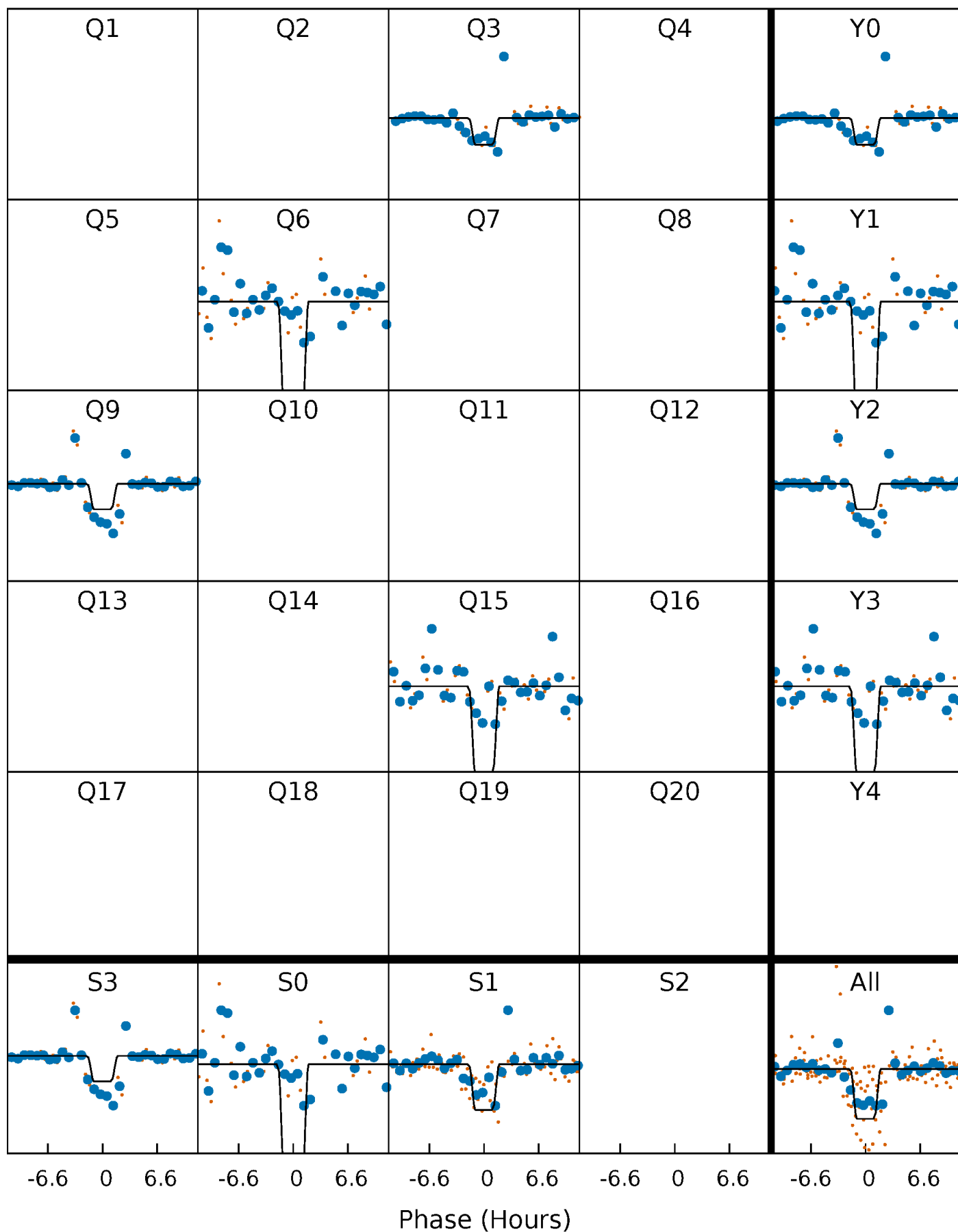
DV Quarter-Phased Transit Curves

TCE 005268904-02 P=285.995209 Days $T_0=304.127430$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

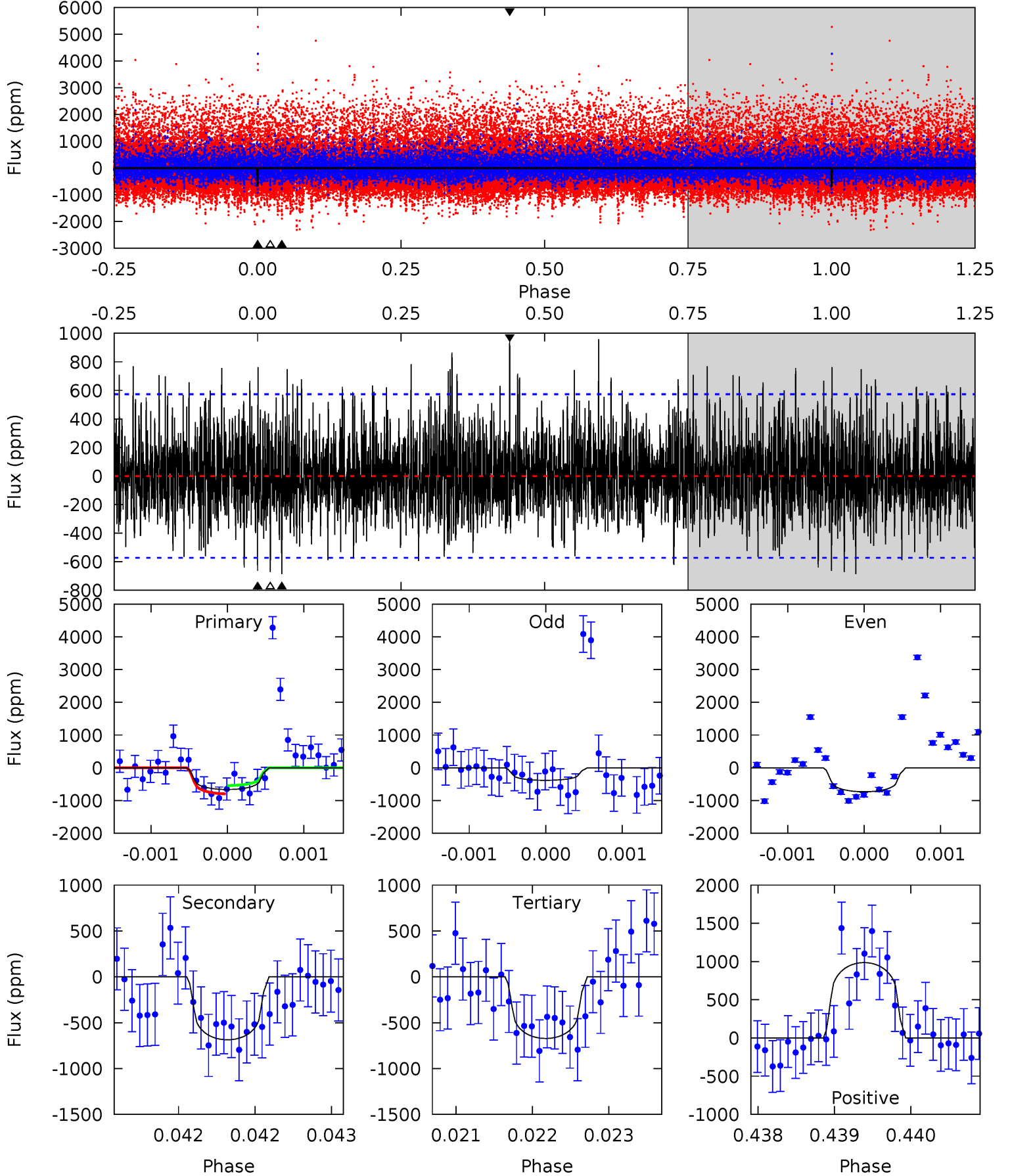
TCE 005268904-02 $P=285.986054$ Days $T_0=304.145192$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-02, P = 285.995209 Days, E = 18.132221 Days

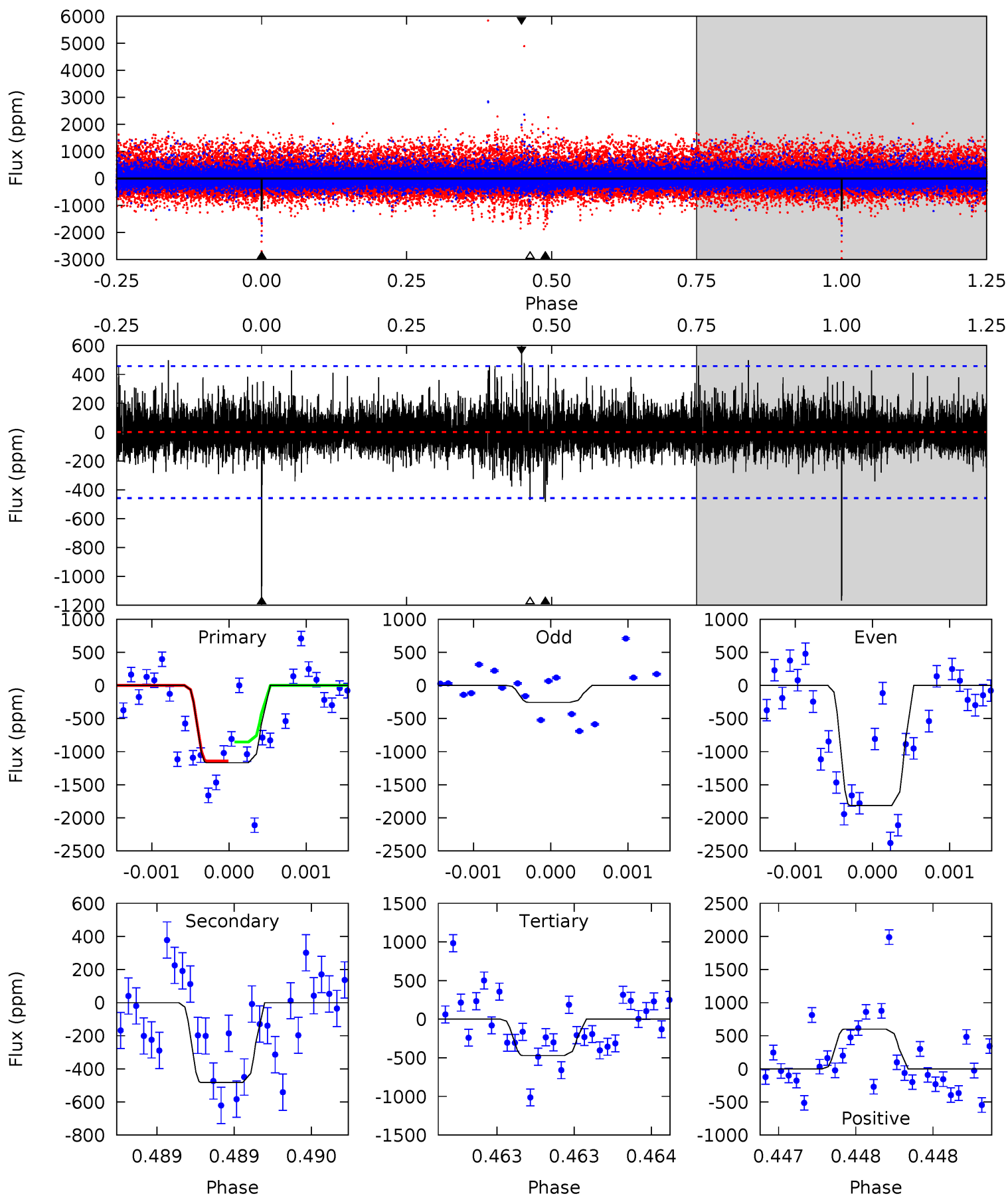
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.37	6.59	6.45	9.47	5.50	3.37	2.08	-0.08	-3.10	0.14	-2.88	1.23	0.89	0.59	1.23



Alt Model-Shift Uniqueness Test

005268904-02, P = 285.986054 Days, E = 18.159138 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.2	5.87	5.73	7.31	5.57	3.48	1.17	8.49	6.91	0.14	-1.43	7.73	1.28	0.34	1.67



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-686 ± 104	$2.30^{+2.09}_{-1.65}$	156^{+5}_{-5}	2653^{+1144}_{-400}	$24509^{+287303}_{-17867}$
Alt.	-482 ± 82	$2.50^{+2.33}_{-1.70}$	156^{+5}_{-4}	2466^{+944}_{-334}	$14372^{+142100}_{-10505}$

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

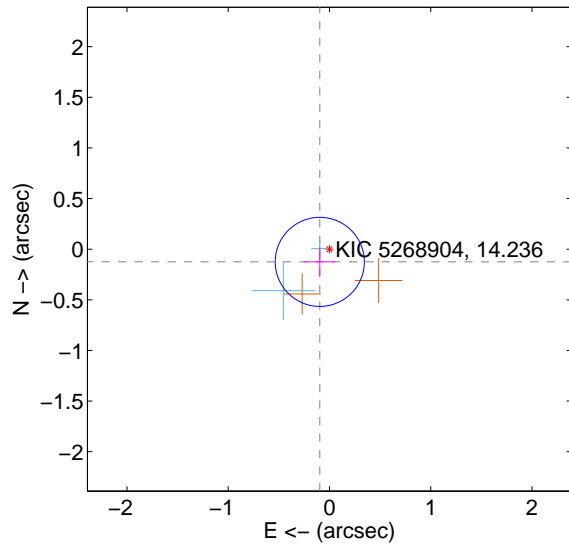
Supplemental centroid analysis for 005268904-02. Kepler magnitude: 14.24. Transit SNR 6.20

There are 2 quarters with good PRF difference image offsets

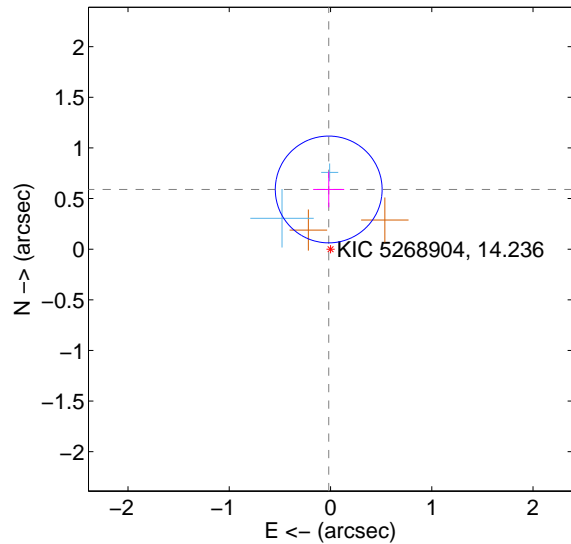
The direct PRF centroid is offset from the target star catalog position by about 0.76 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.158 ± 0.147	1.08	0.096 ± 0.151	-0.125 ± 0.144
PRF-fit source offset from KIC position	0.590 ± 0.176	3.36	0.018 ± 0.154	0.590 ± 0.176
photometric centroid source offset	0.42 ± 0.52	0.80	0.12 ± 0.41	0.40 ± 0.53

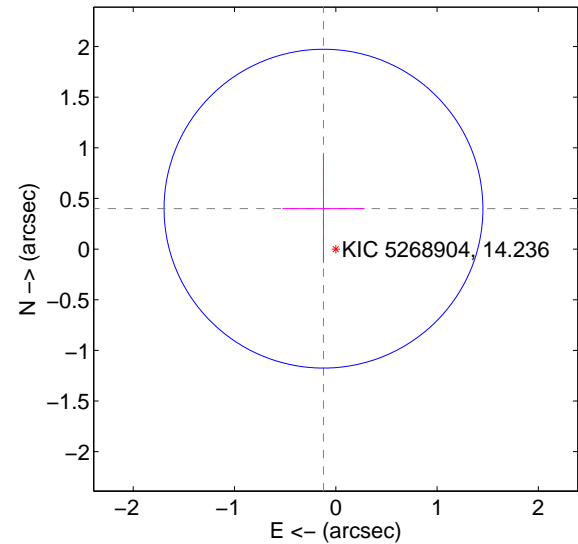
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

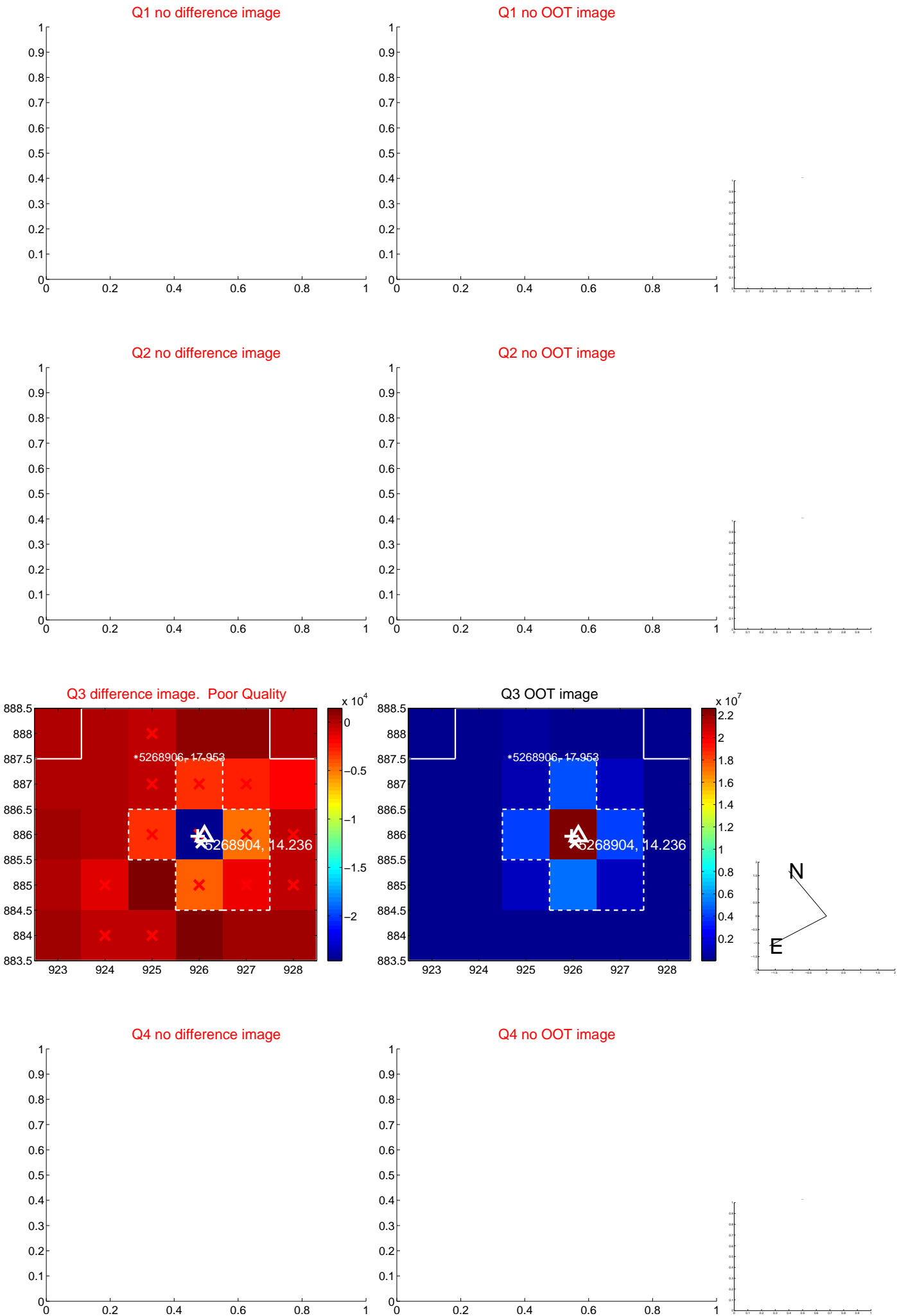


offset from photometric centroids



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.

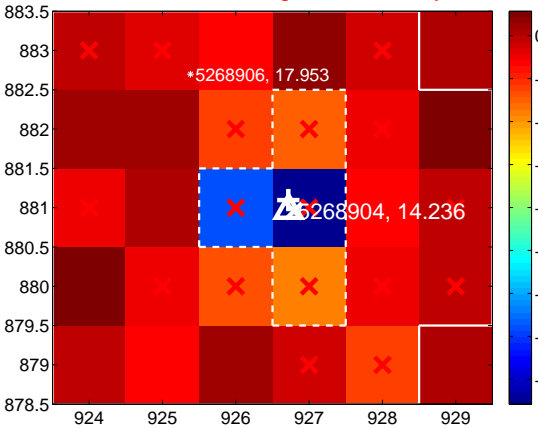
Q5 no difference image



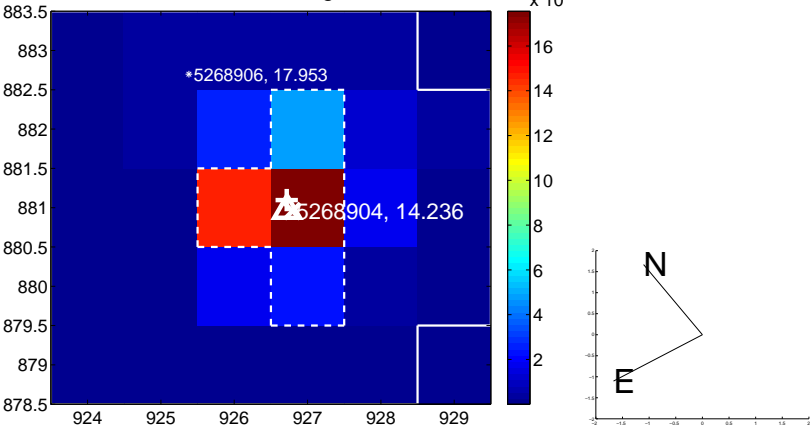
Q5 no OOT image



Q6 difference image. Poor Quality



Q6 OOT image



Q7 no difference image



Q7 no OOT image



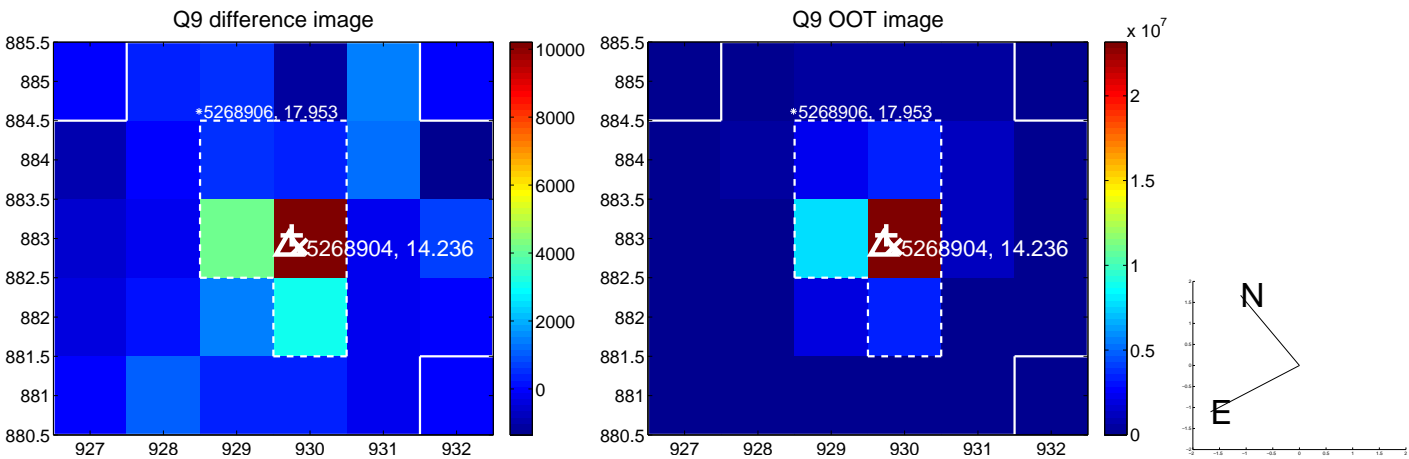
Q8 no difference image



Q8 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.

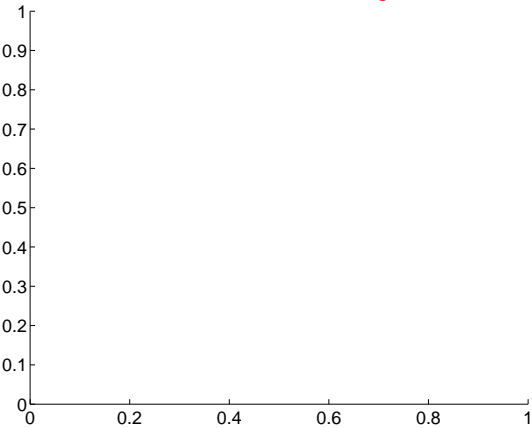
Q13 no difference image



Q13 no OOT image



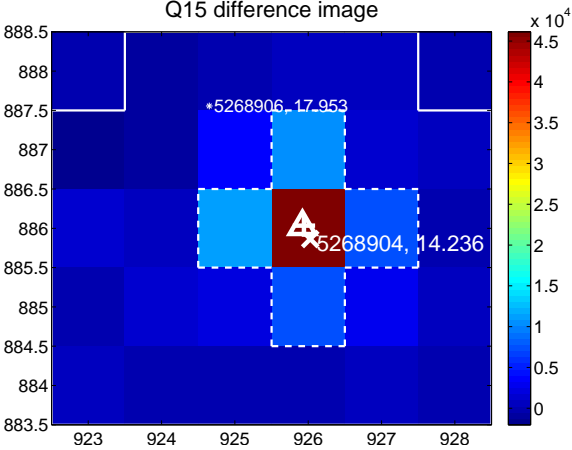
Q14 no difference image



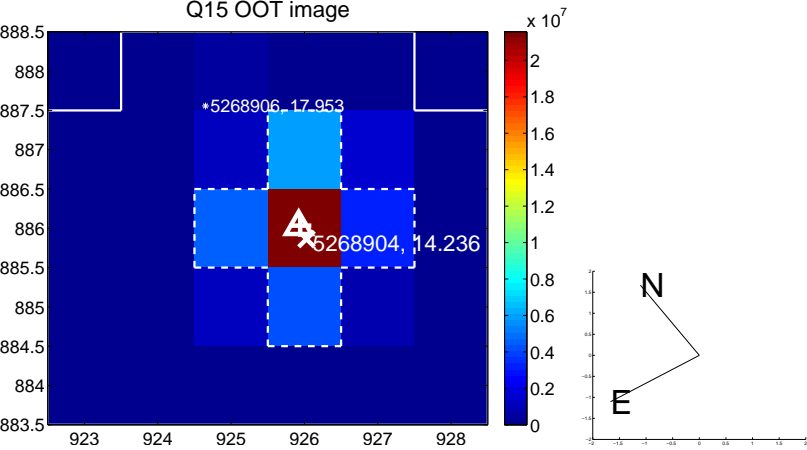
Q14 no OOT image



Q15 difference image



Q15 OOT image



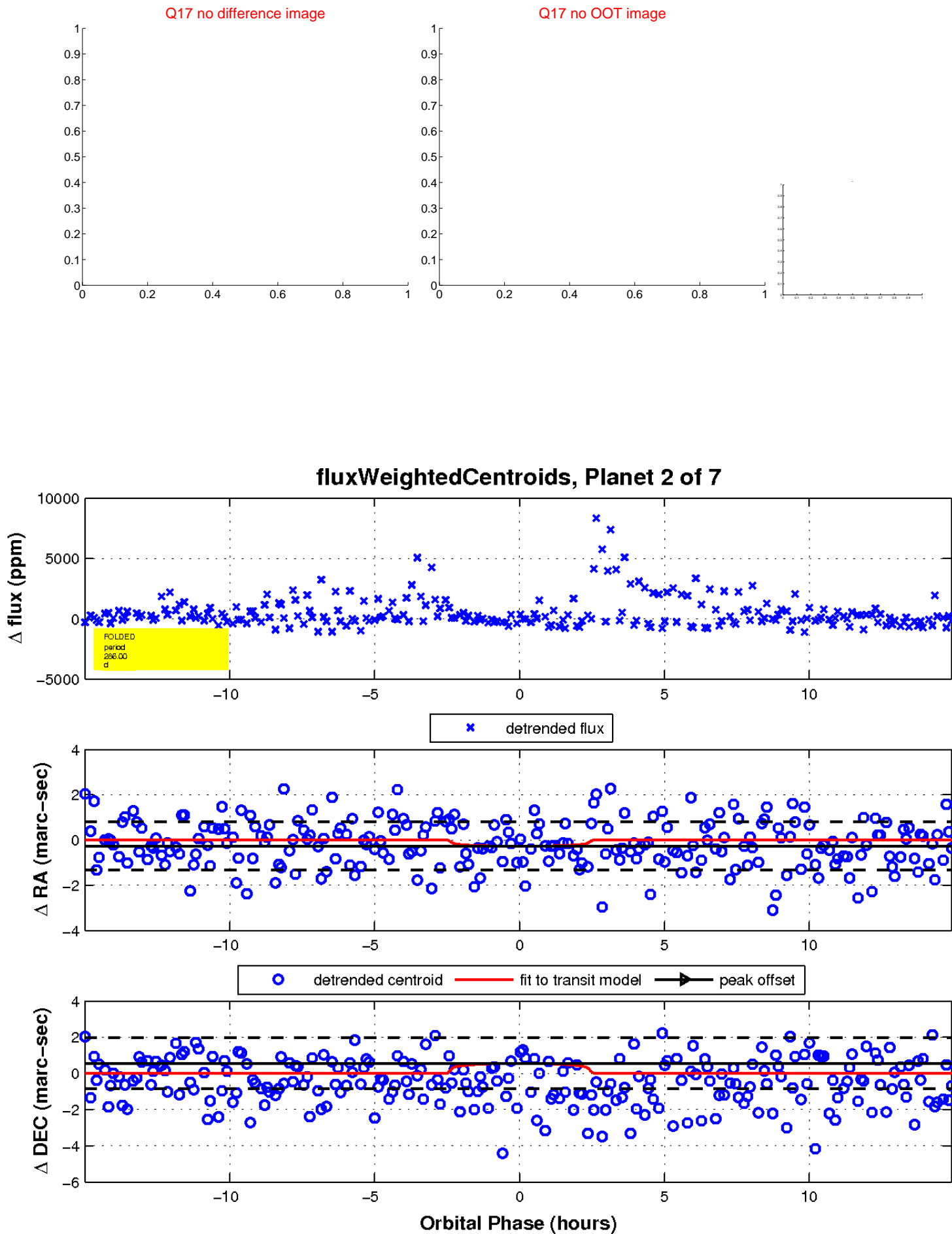
Q16 no difference image



Q16 no OOT image

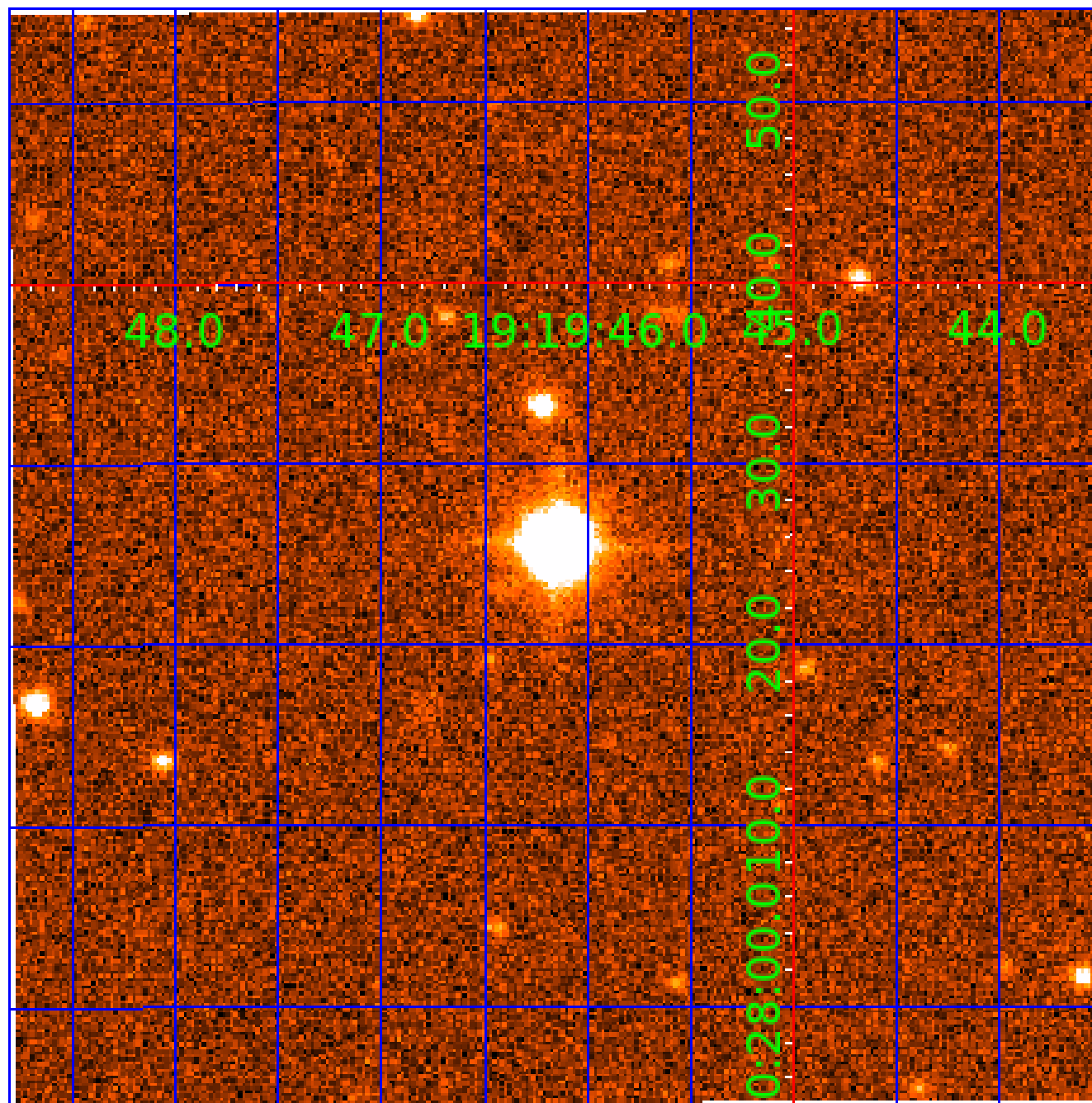


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

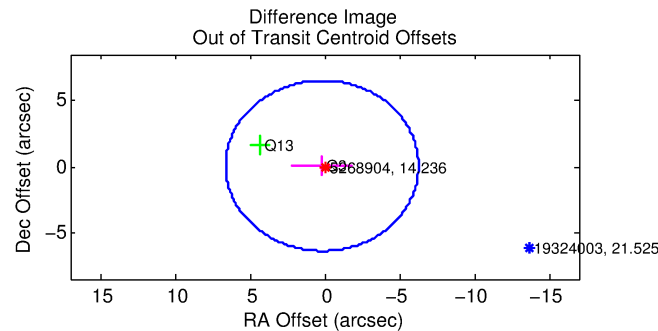
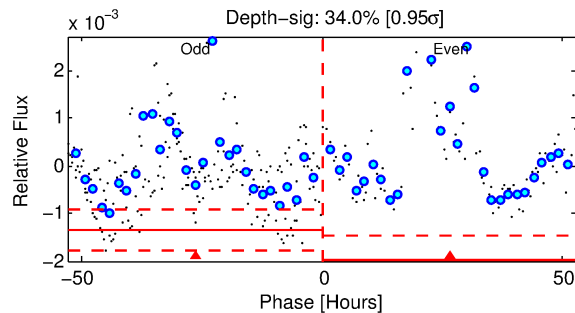
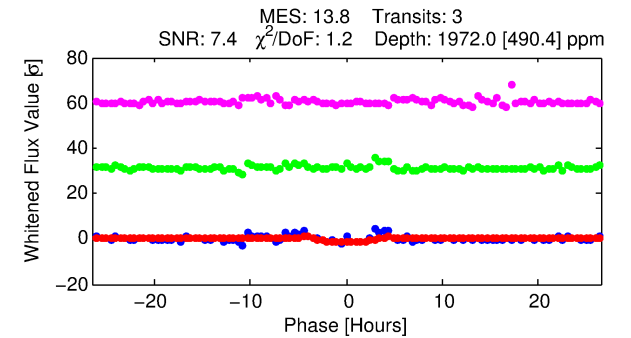
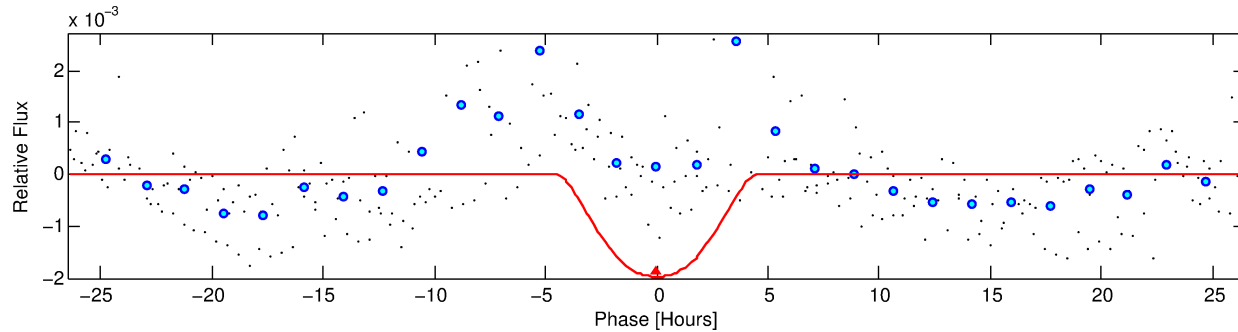
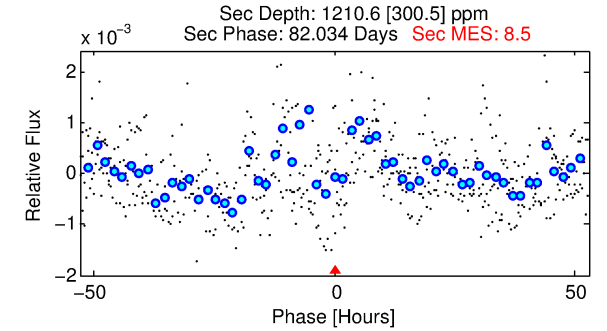
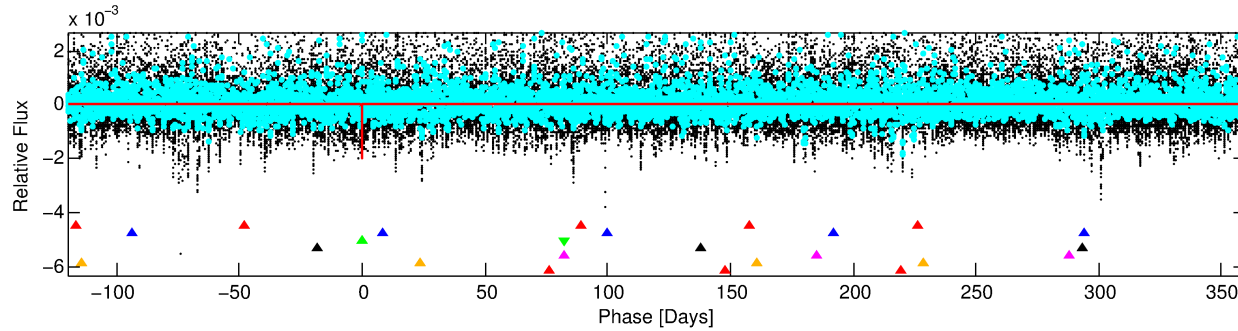
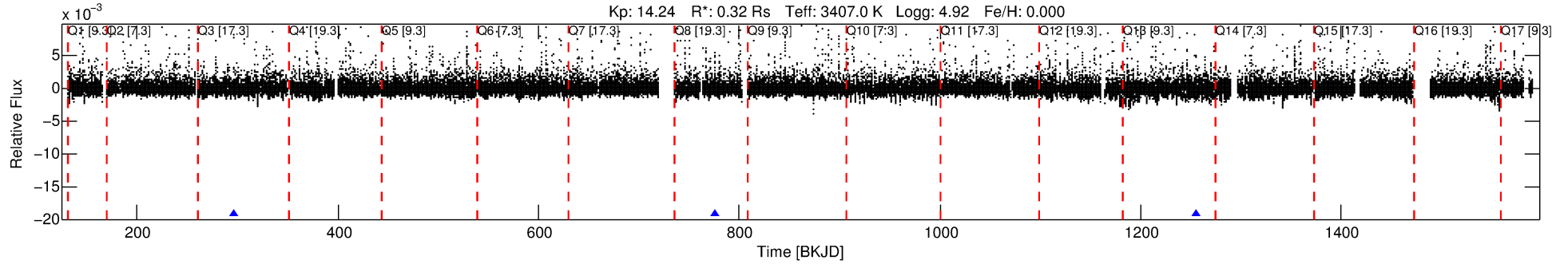
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-03

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 3 of 7 Period: 479.890 d



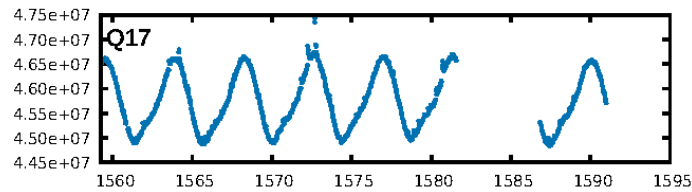
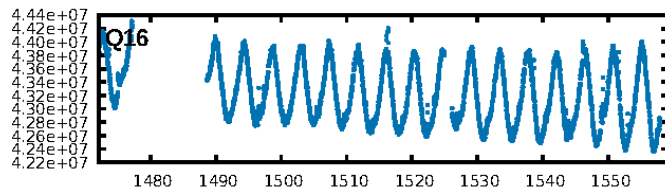
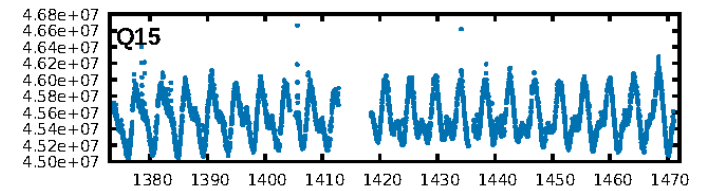
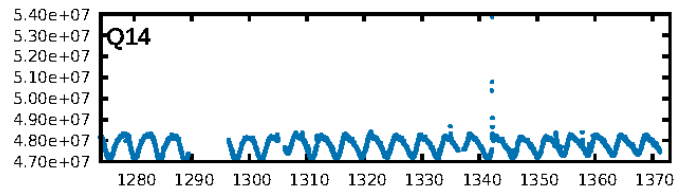
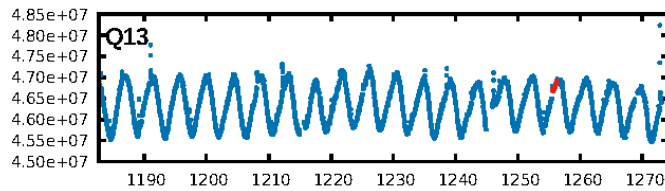
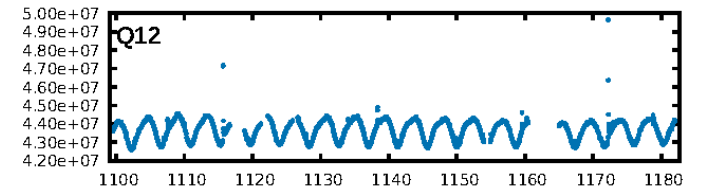
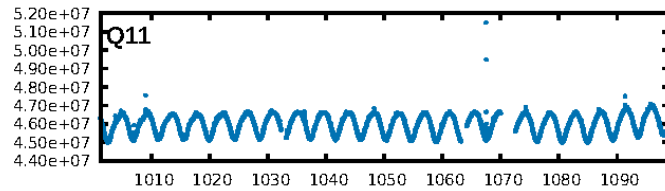
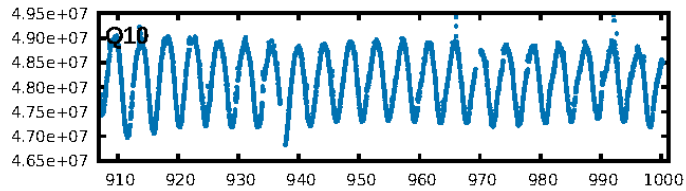
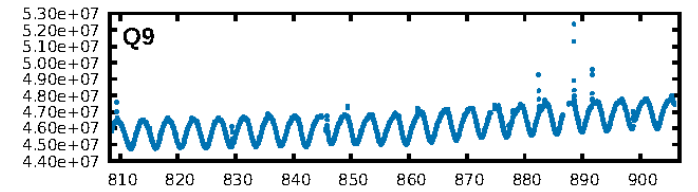
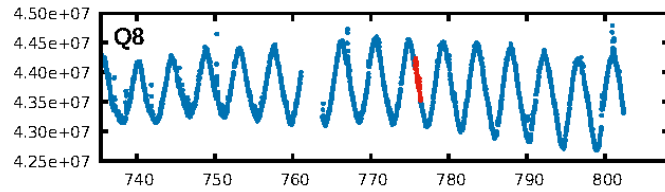
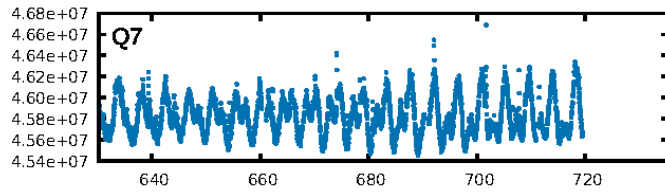
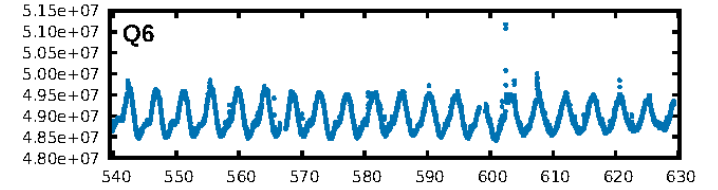
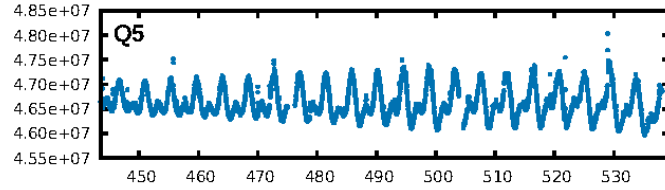
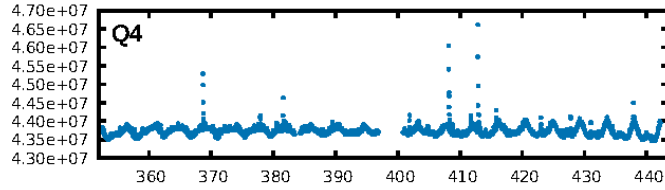
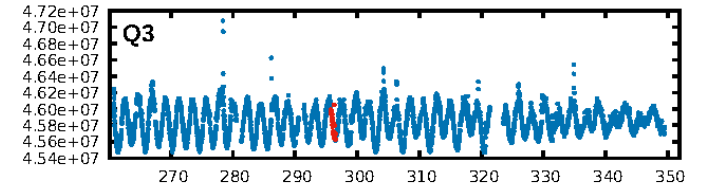
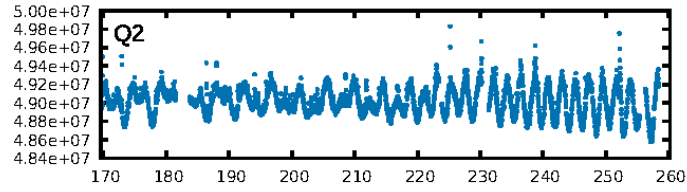
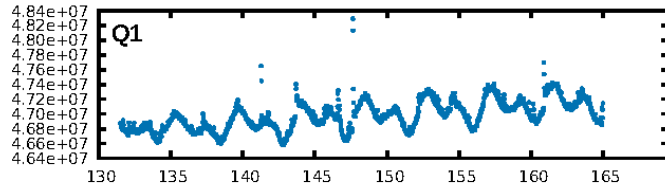
DV Fit Results:

Period = 479.88981 [0.01512] d
Epoch = 296.1205 [0.0178] BKJD
Rp/R* = 0.0535 [0.0144]
a/R* = 188.24 [38.14]
b = 0.95 [0.04]
Seff = 0.02 [0.00]
Teq = 94 [4] K
Rp = 1.89 [0.58] Re
a = 0.8213 [0.0910] AU
Ag = 125498.75 [76245.08] [1.65 σ]
Teffp = 2747 [409] K [6.49 σ]

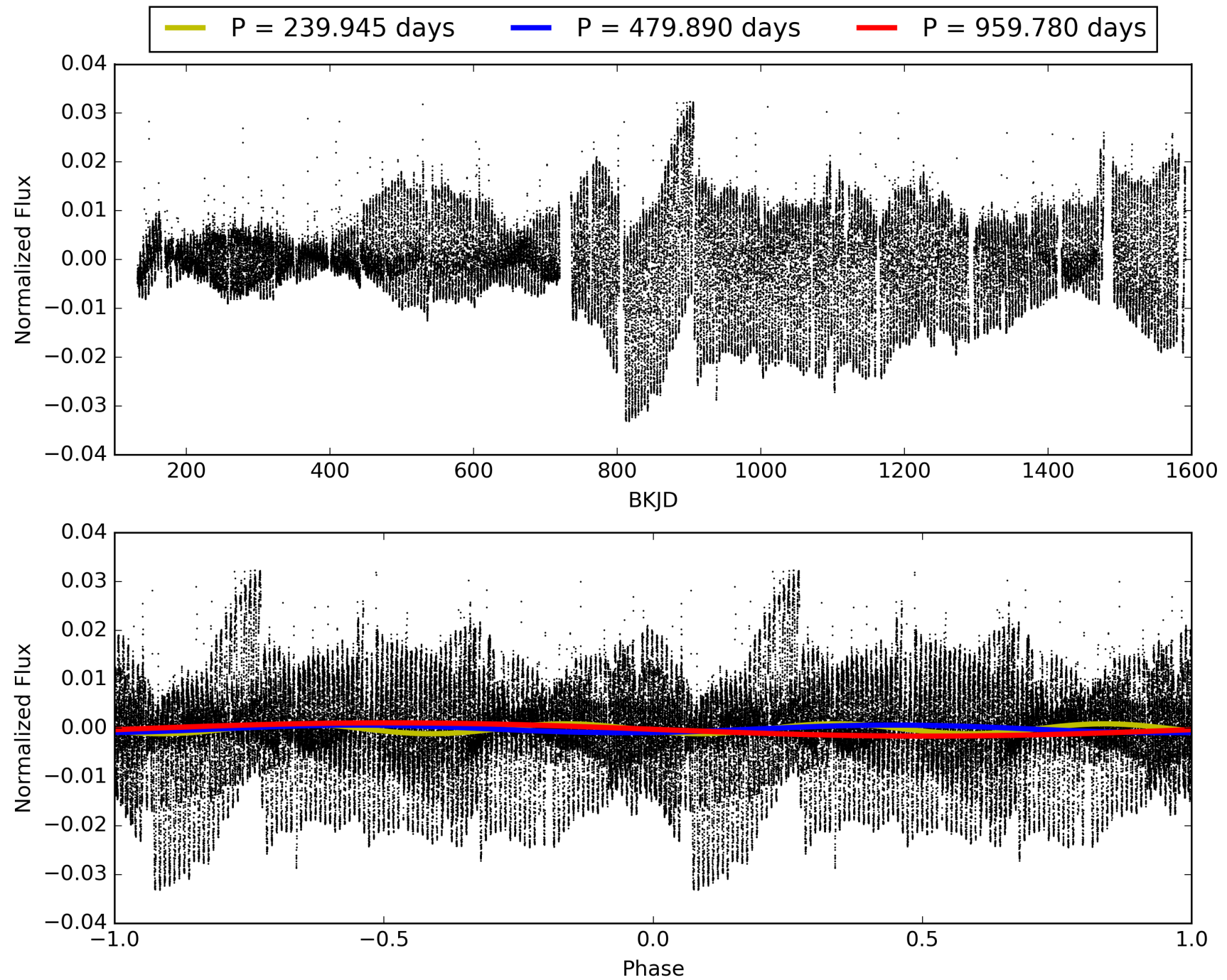
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [125.42 σ]
LongPeriod-sig: 100.0% [218.03 σ]
ModelChiSquare2-sig: 0.6%
ModelChiSquareGof-sig: 90.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 3.176
Centroid-sig: 8.3%
Centroid-so: 1.196 arcsec [3.29 σ]
OotOffset-rm: 0.186 arcsec [0.09 σ]
OotOffset-st: 0/1/0/1 [2]
KicOffset-rm: 0.668 arcsec [0.89 σ]
KicOffset-st: 0/1/0/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 005268904-03, PDC Light Curves

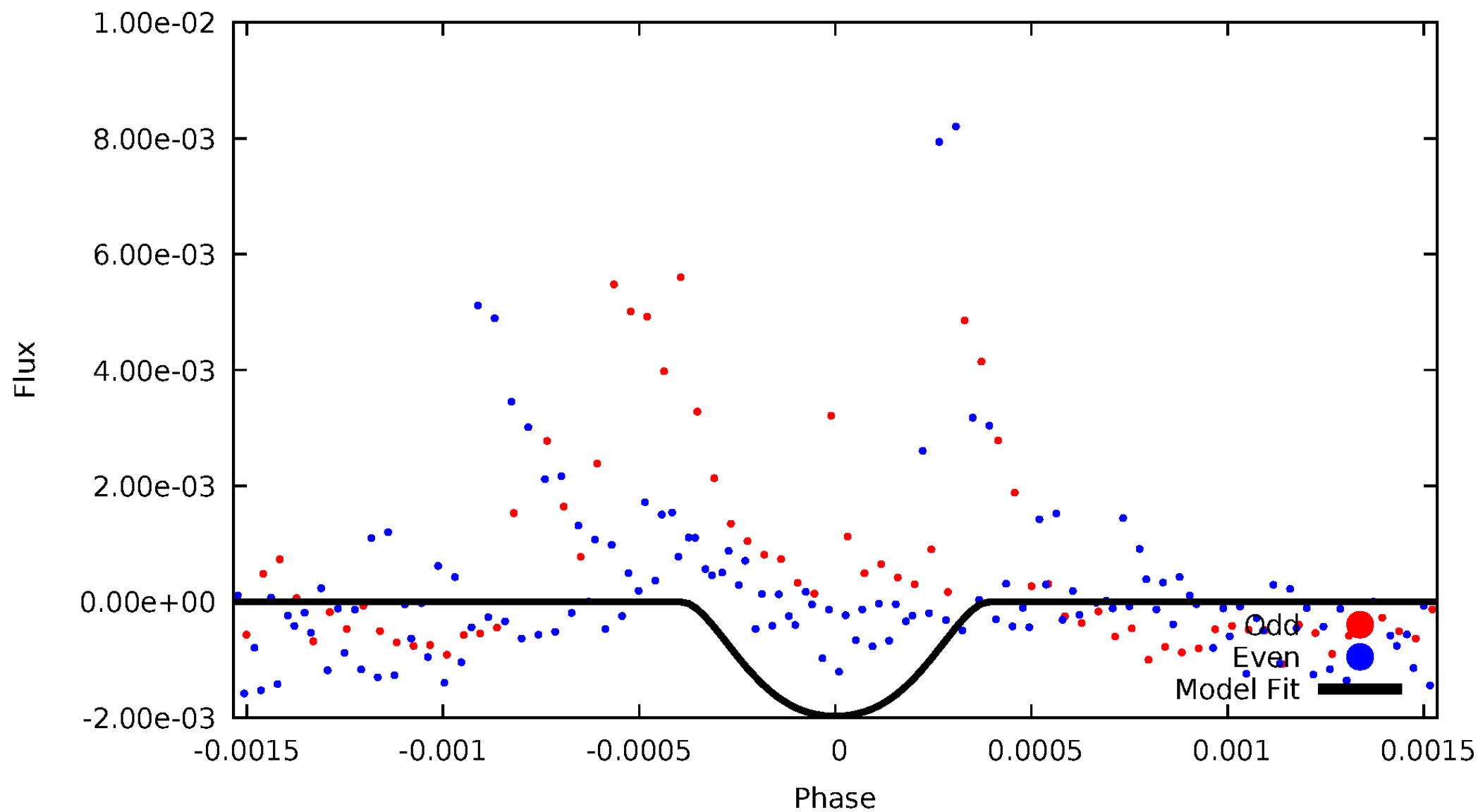


TCE 005268904-03



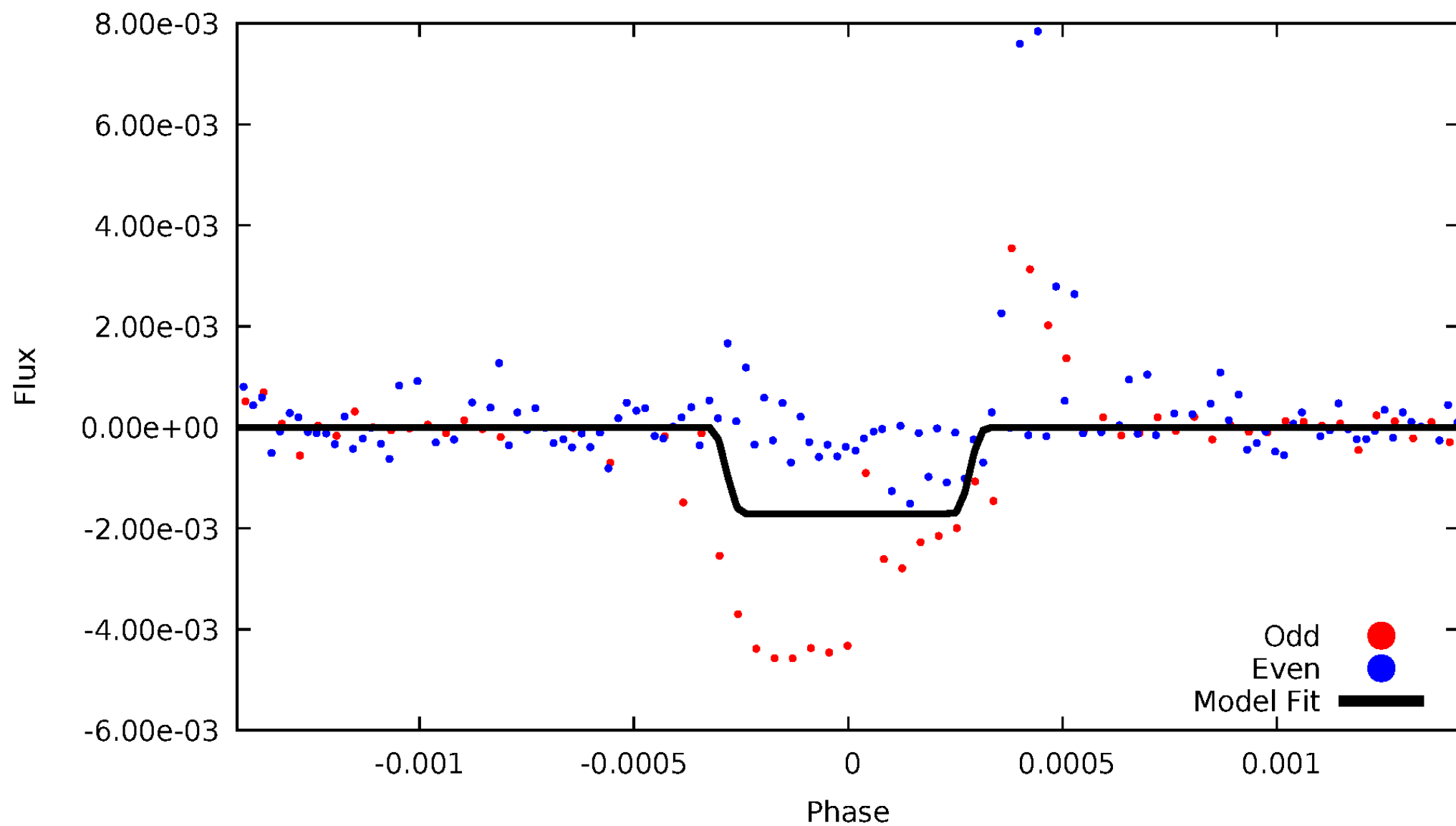
DV Odd/Even

TCE 005268904-03



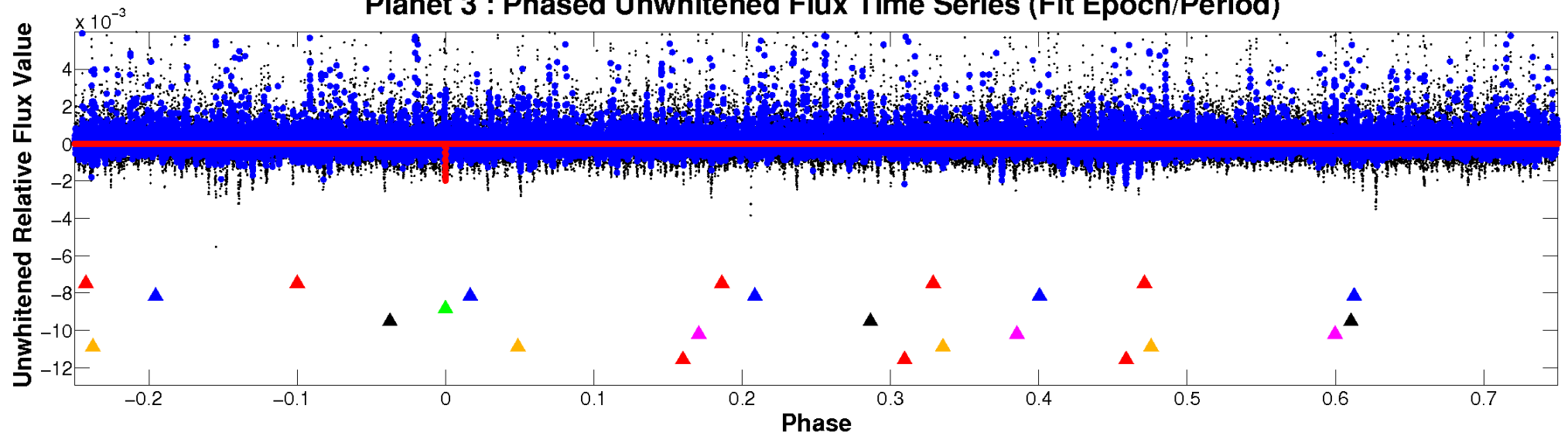
ALT Odd/Even

TCE 005268904-03

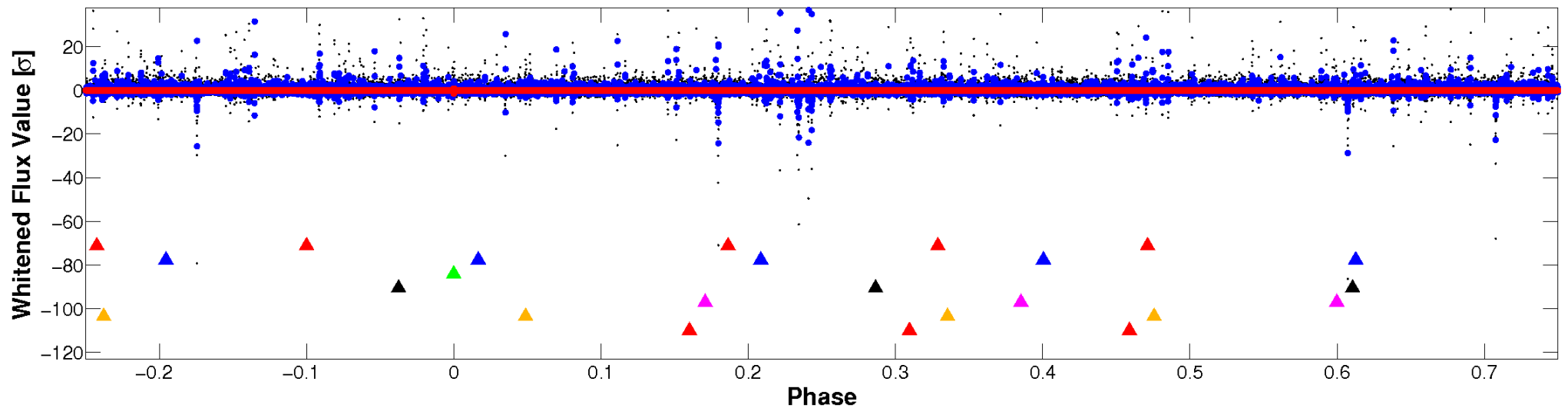


Non-Whitened Vs. Whitened Light Curve

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

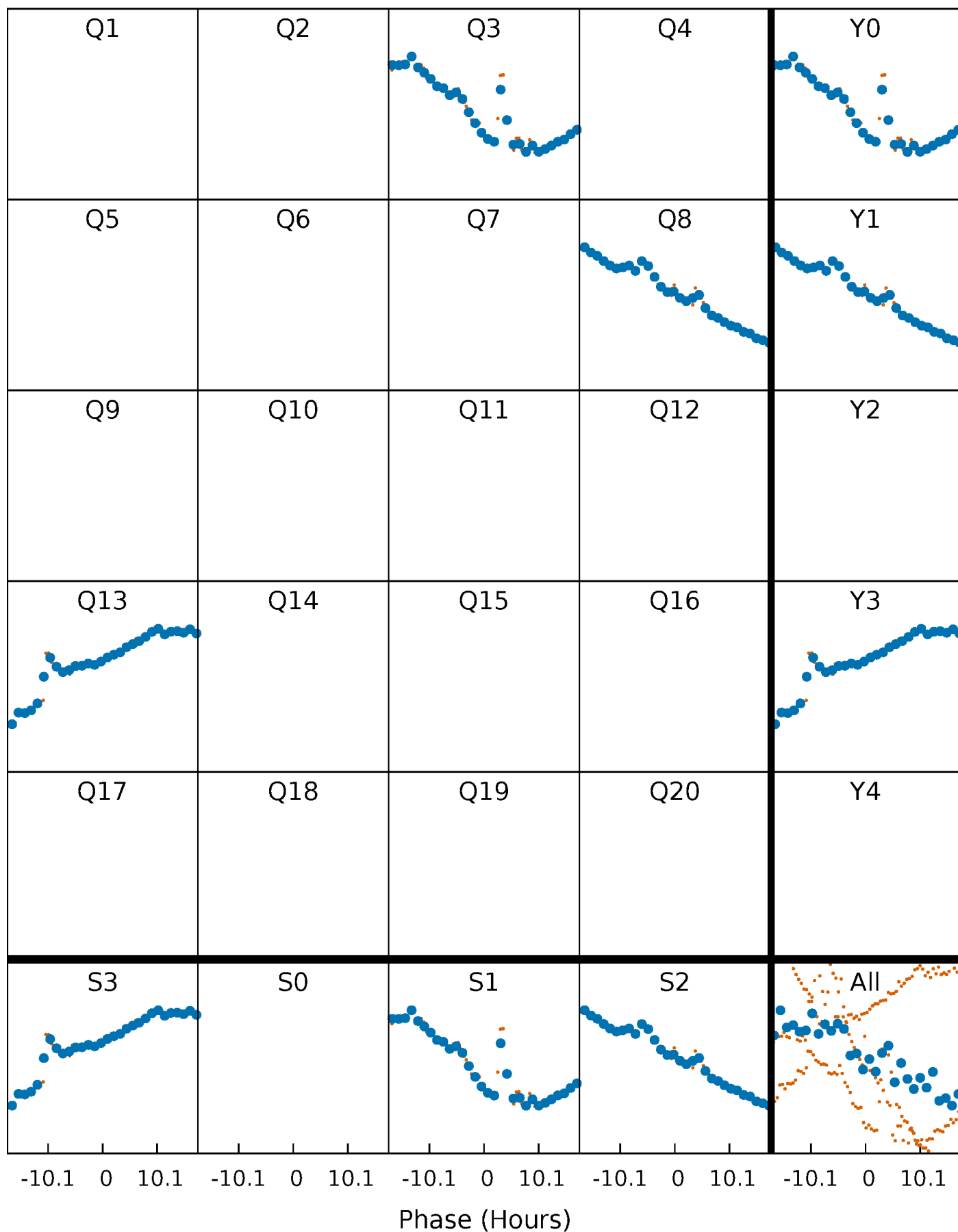


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



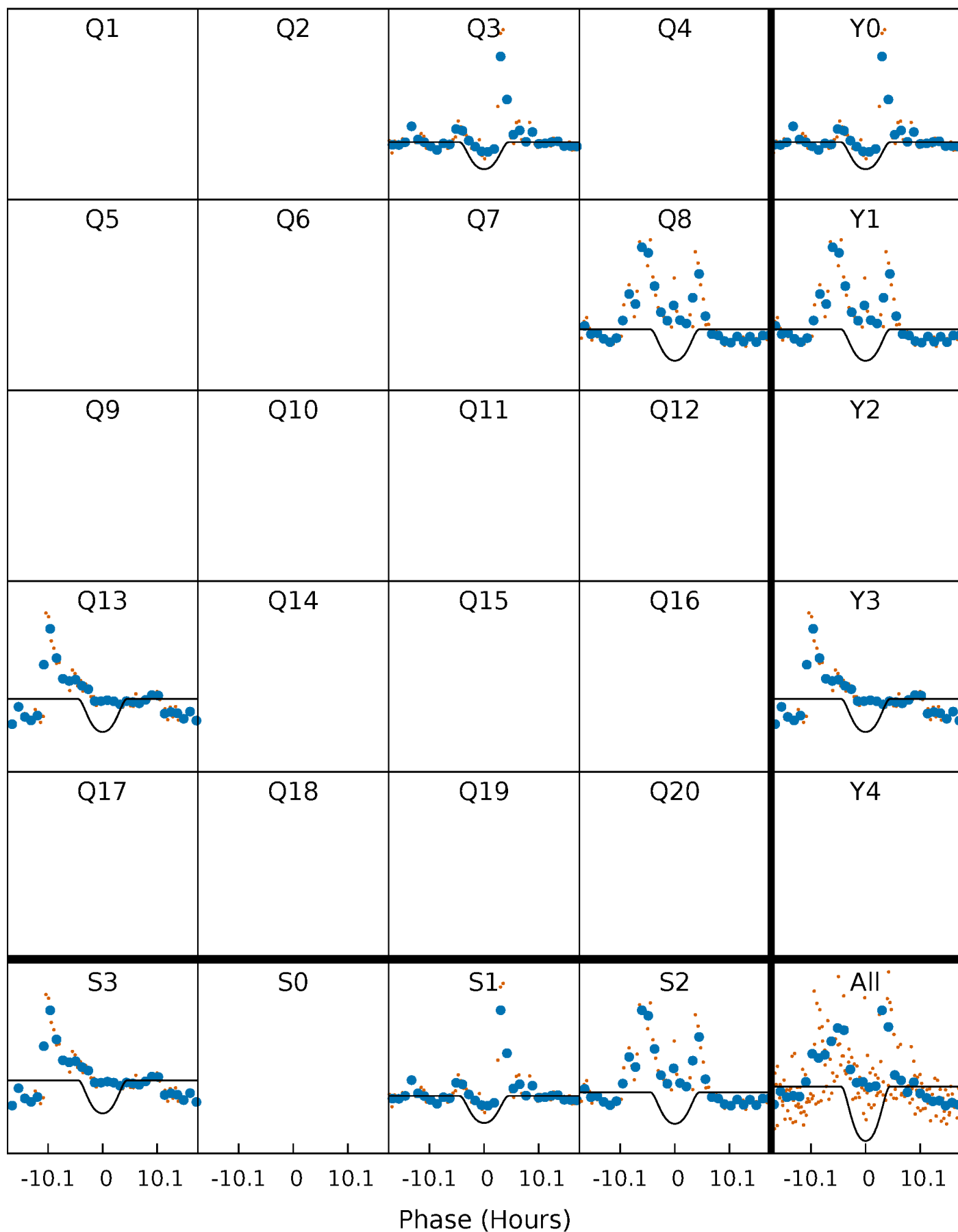
PDC Quarter-Phased Transit Curves

TCE 005268904-03 $P=479.889813$ Days $T_0=296.120510$ (BKJD)



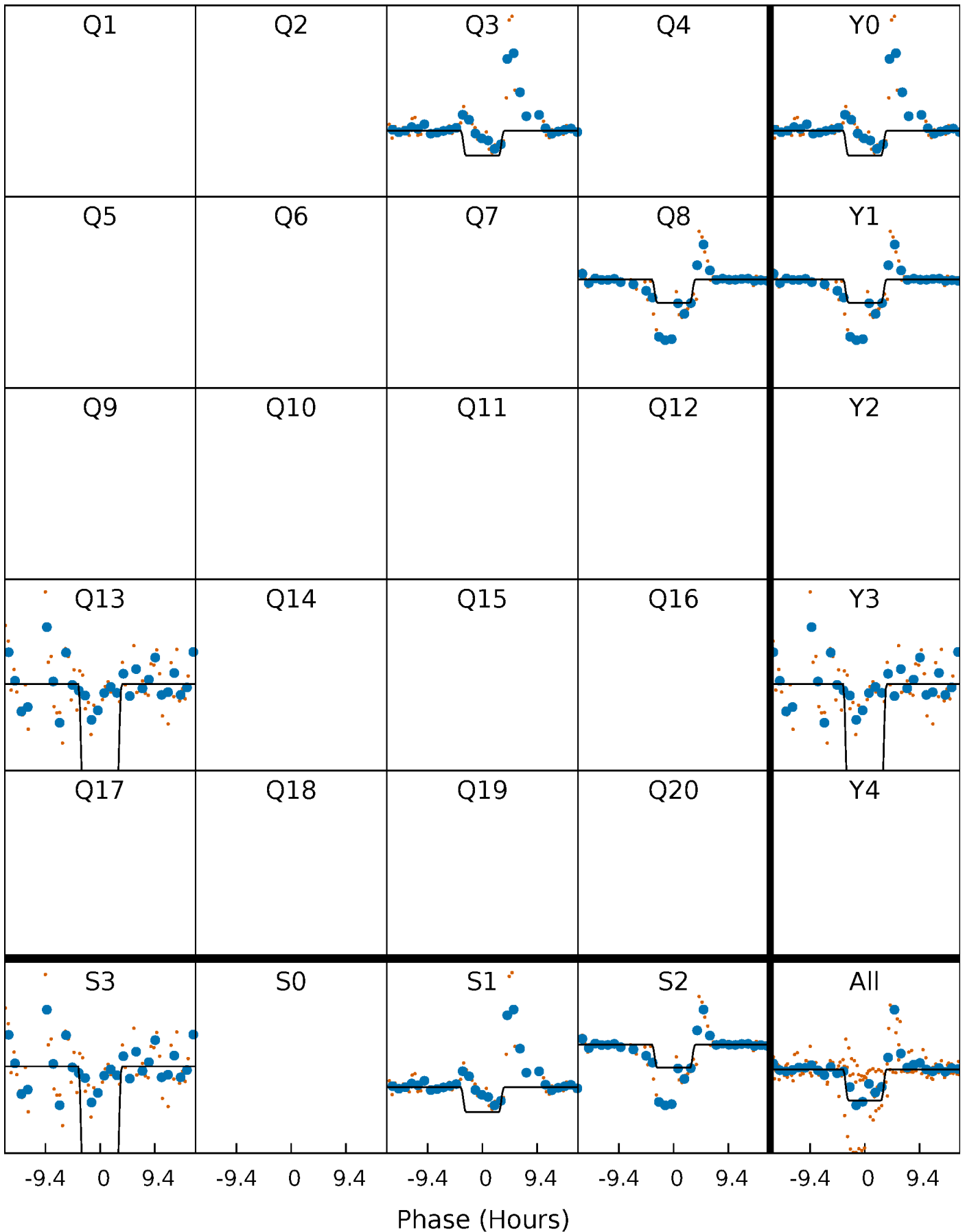
DV Quarter-Phased Transit Curves

TCE 005268904-03 $P=479.889813$ Days $T_0=296.120510$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

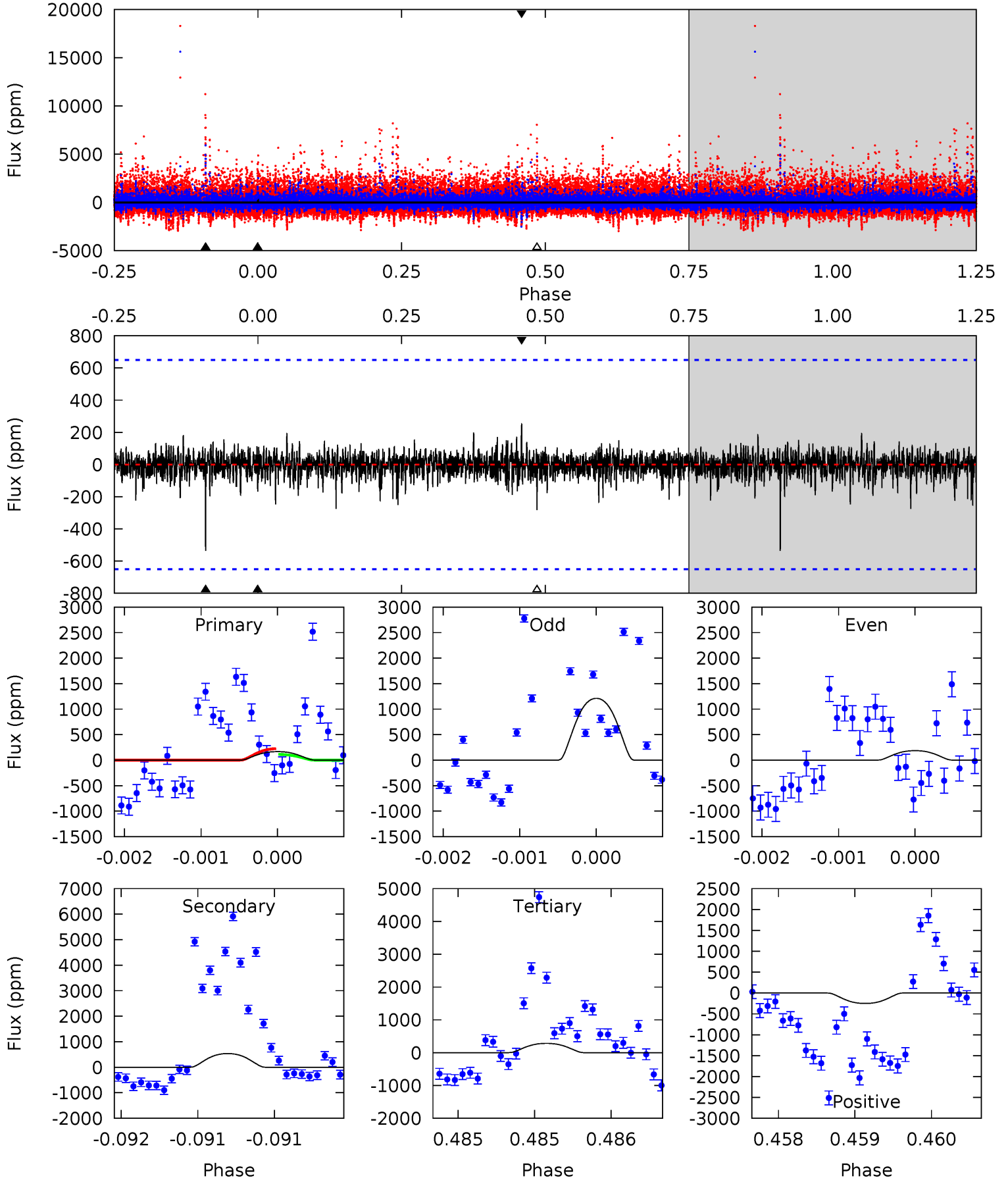
TCE 005268904-03 $P=479.929835$ Days $T_0=296.055909$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-03, P = 479.889813 Days, E = 296.120510 Days

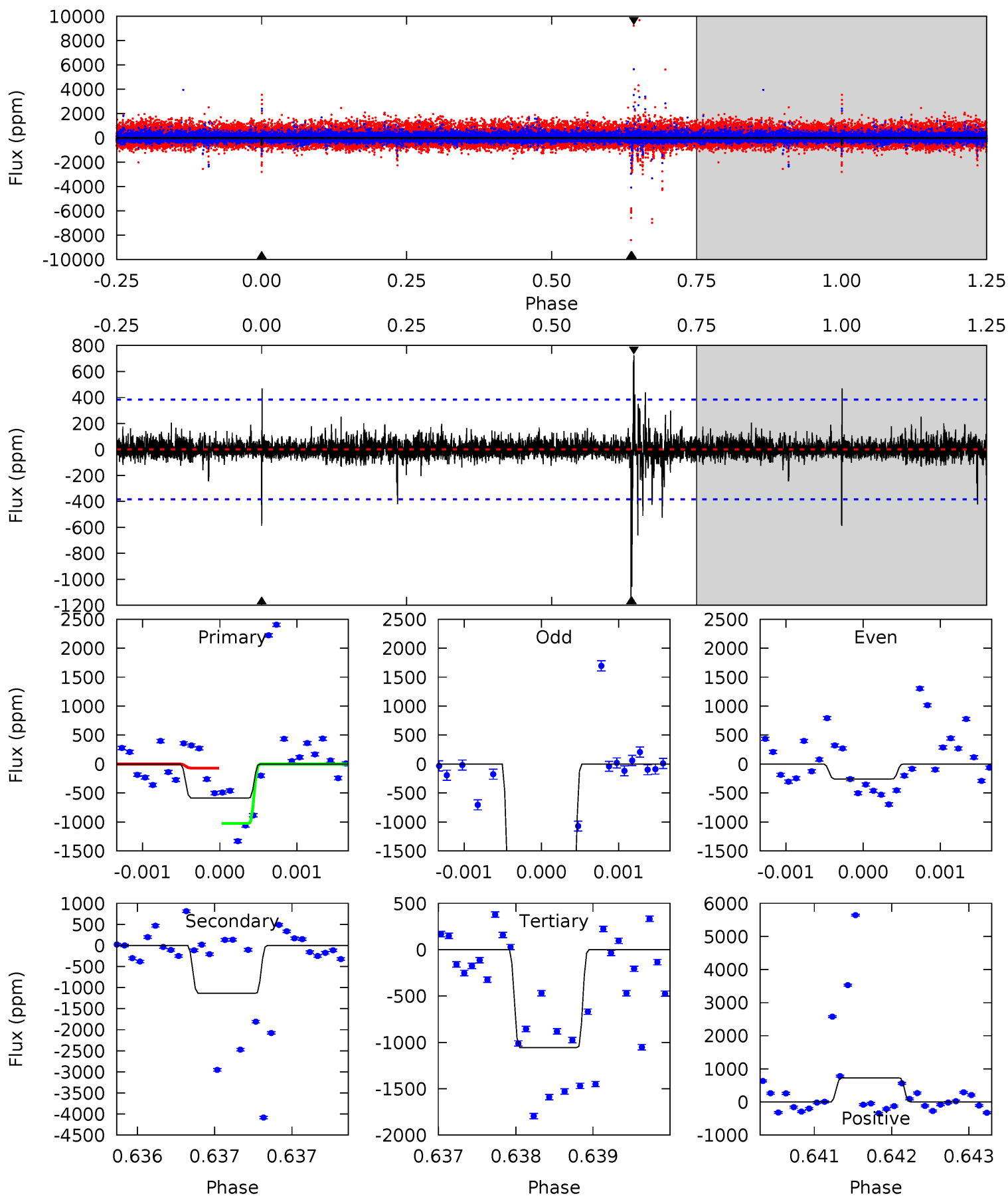
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.41	4.53	2.39	2.12	5.49	3.35	0.48	-0.98	-0.70	2.14	2.41	3.14	1.92	0.32	0



Alt Model-Shift Uniqueness Test

005268904-03, P = 479.929835 Days, E = 296.055909 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.47	16.4	15.2	10.5	5.53	3.41	0.87	-6.74	-1.99	1.16	5.91	9.26	4.24	0.39	0



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-536 ± 118	$1.89^{+0.55}_{-0.50}$	131^{+4}_{-4}	2685^{+231}_{-185}	56187^{+51206}_{-24248}
Alt.	-1137 ± 69	$1.47^{+0.50}_{-0.55}$	131^{+4}_{-4}	3207^{+483}_{-274}	$198135^{+305071}_{-87977}$

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

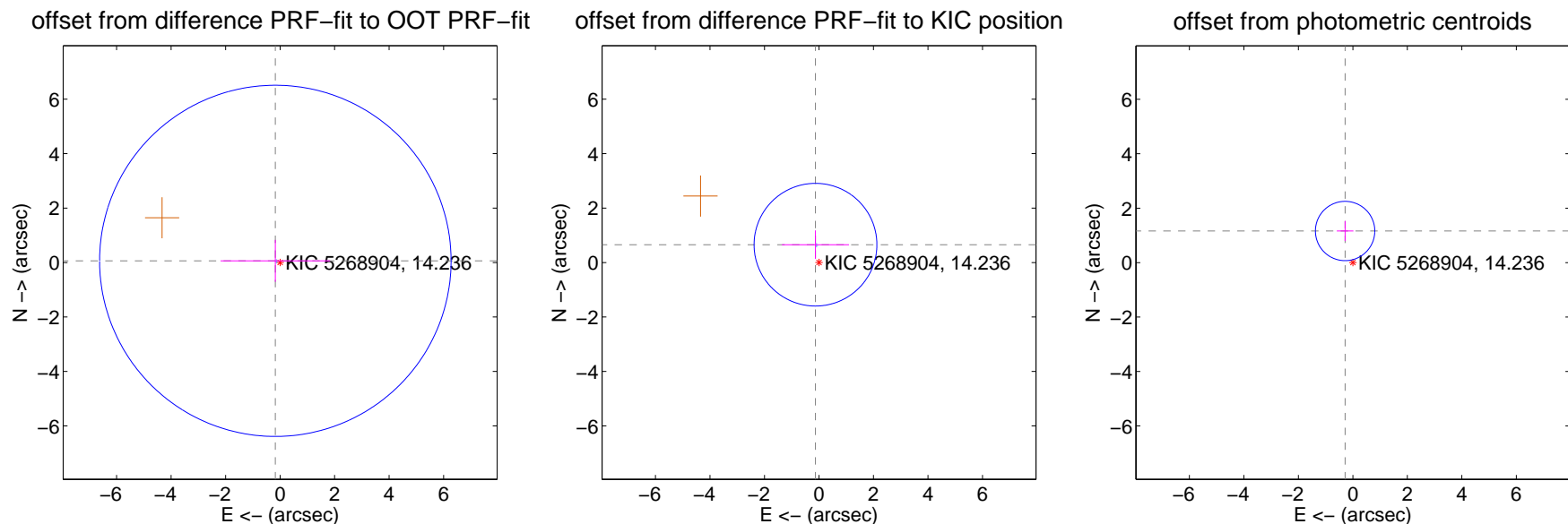
DV Centroid Data

Supplemental centroid analysis for 005268904-03. Kepler magnitude: 14.24. Transit SNR 7.44

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.186 ± 2.150	0.09	0.175 ± 2.010	0.062 ± 0.769
PRF-fit source offset from KIC position	0.668 ± 0.751	0.89	0.129 ± 1.231	0.655 ± 0.526
photometric centroid source offset	1.20 ± 0.36	3.29	0.28 ± 0.30	1.16 ± 0.37



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.

Q1 no difference image



Q1 no OOT image



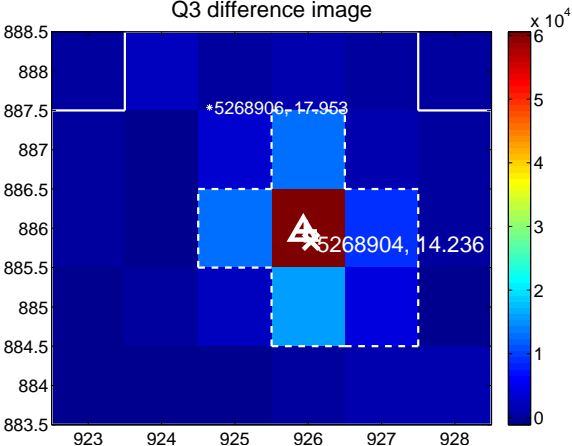
Q2 no difference image



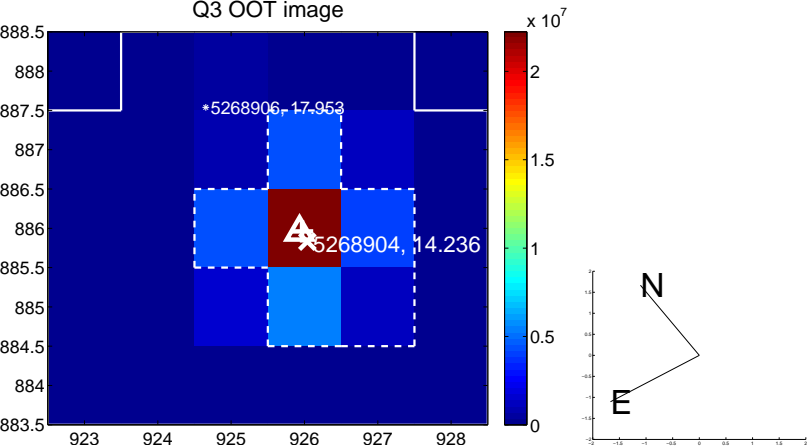
Q2 no OOT image



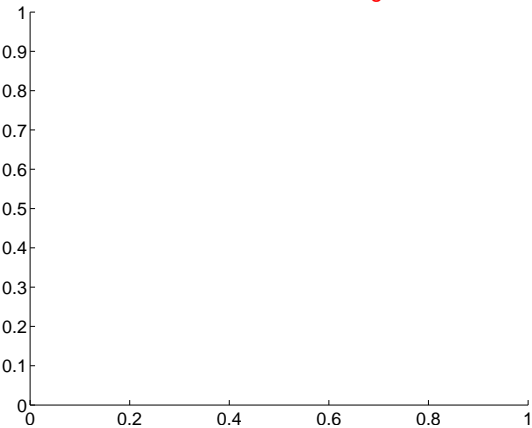
Q3 difference image



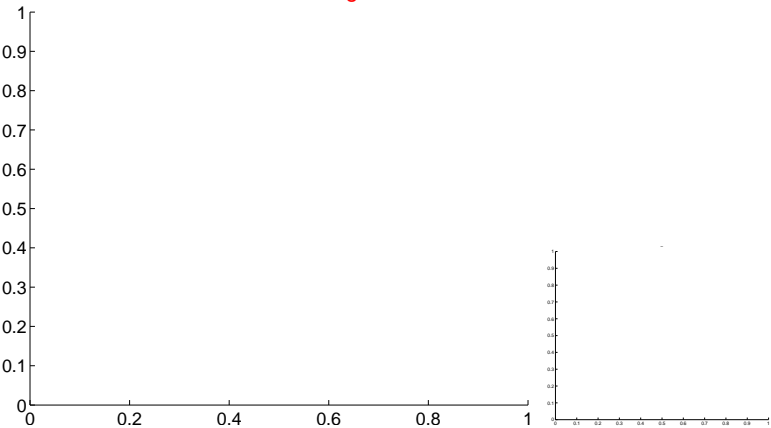
Q3 OOT image



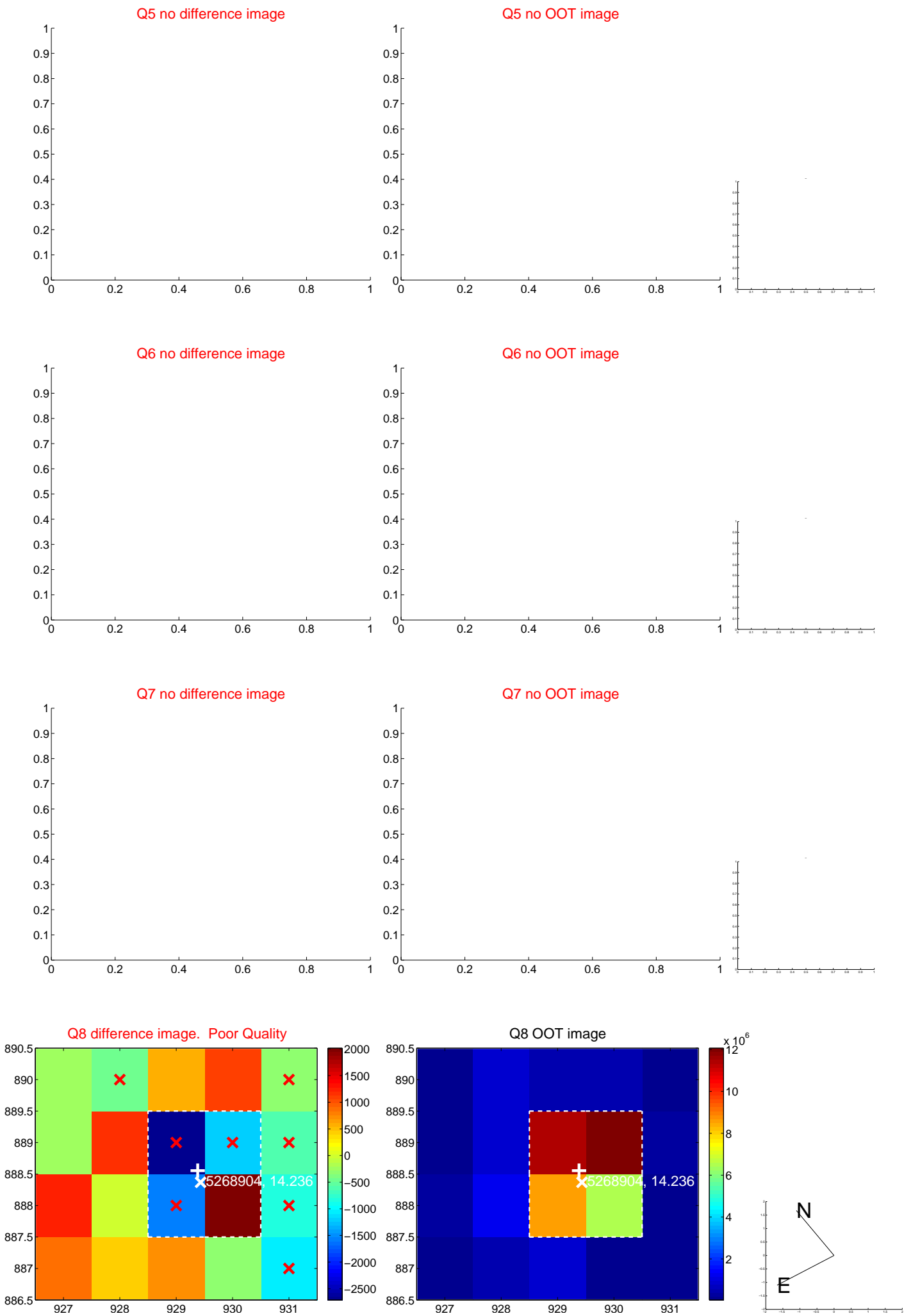
Q4 no difference image



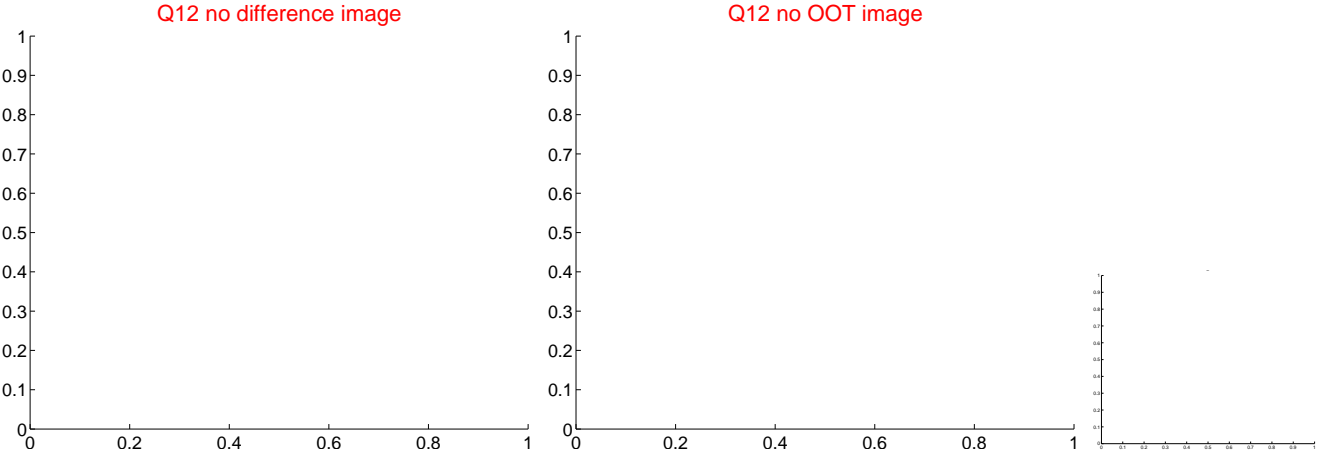
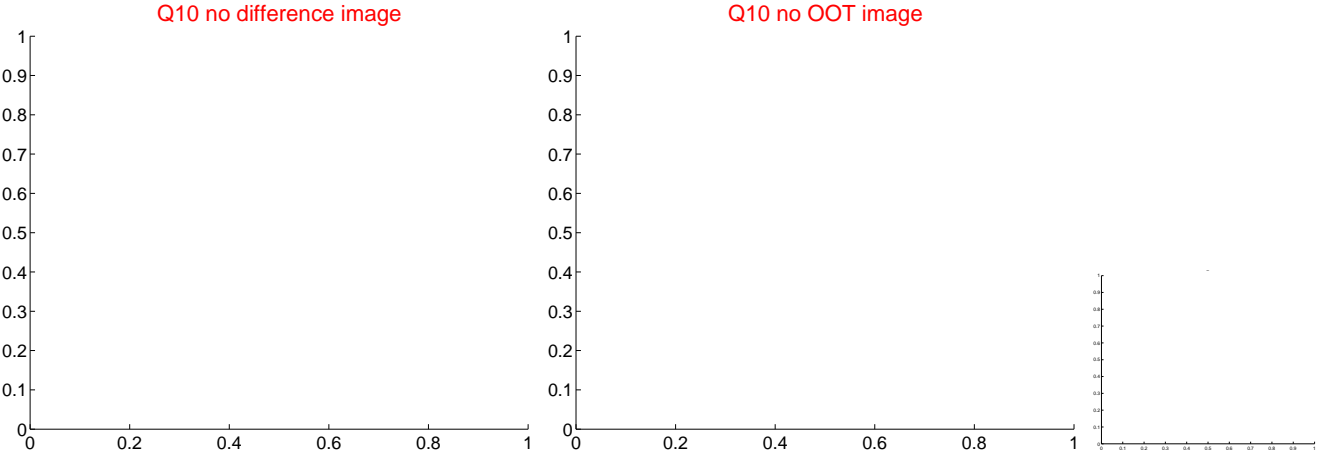
Q4 no OOT image



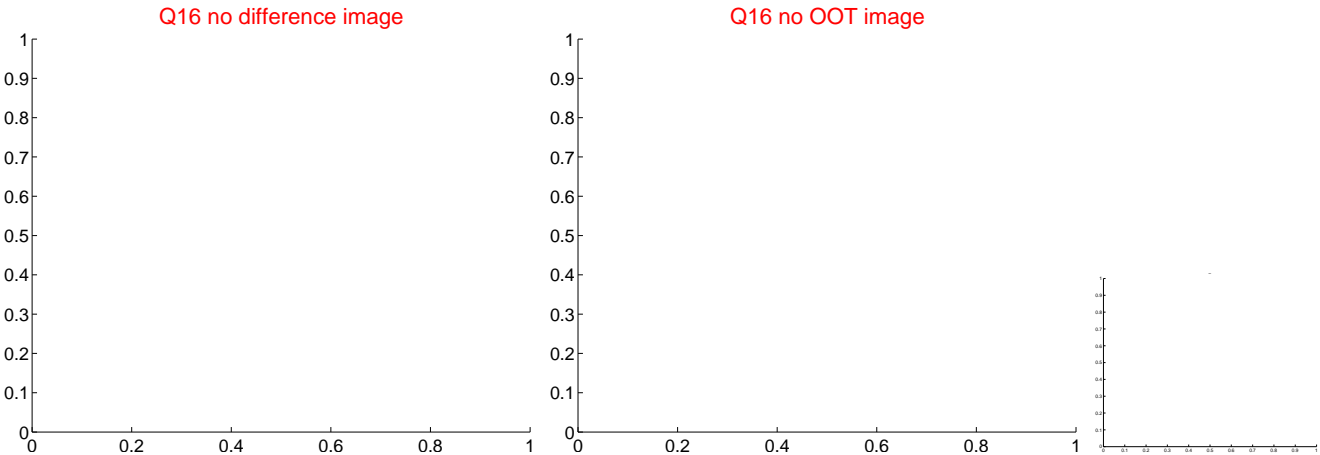
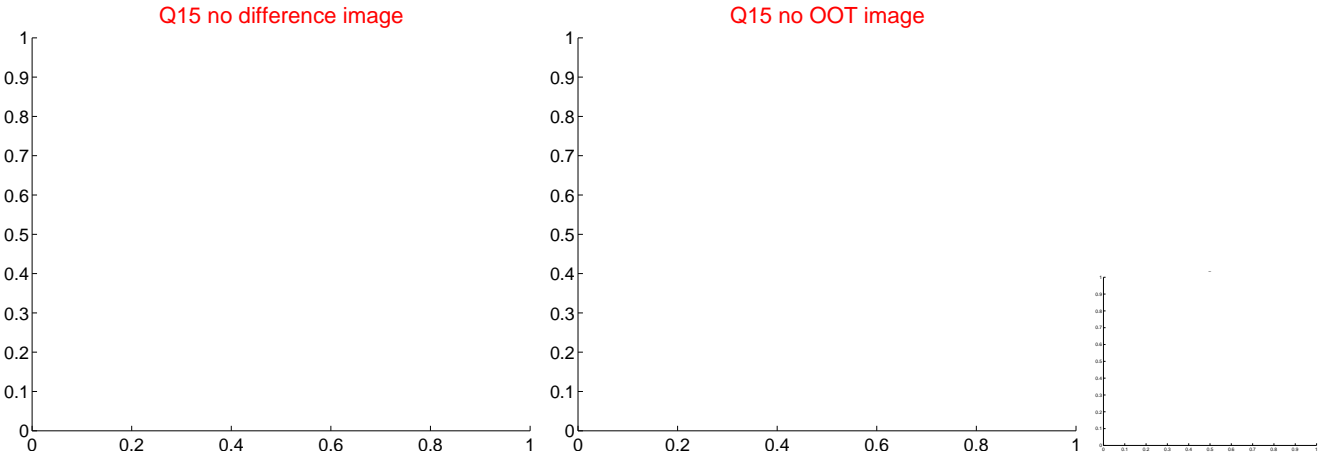
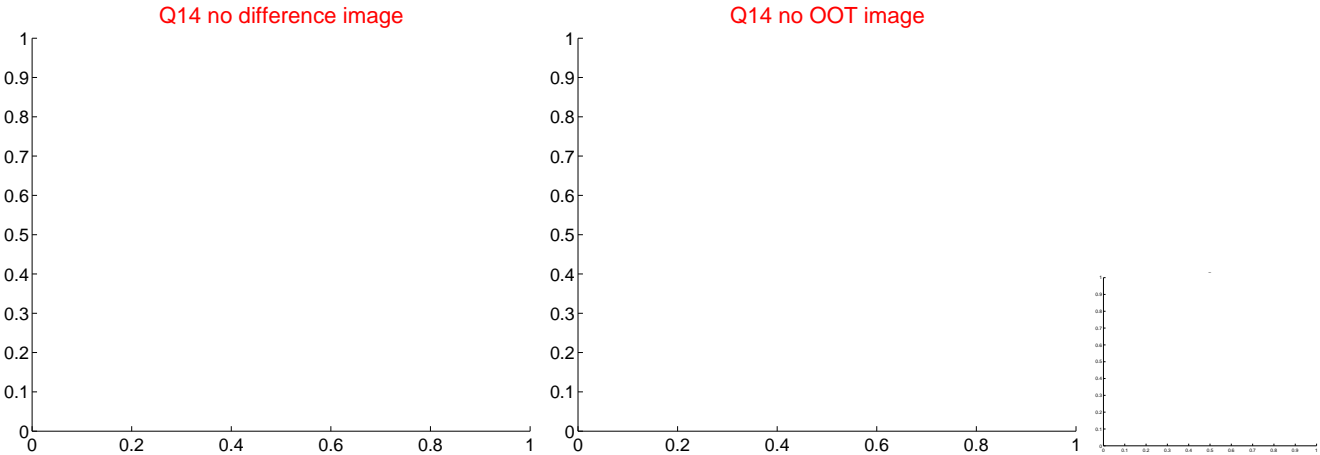
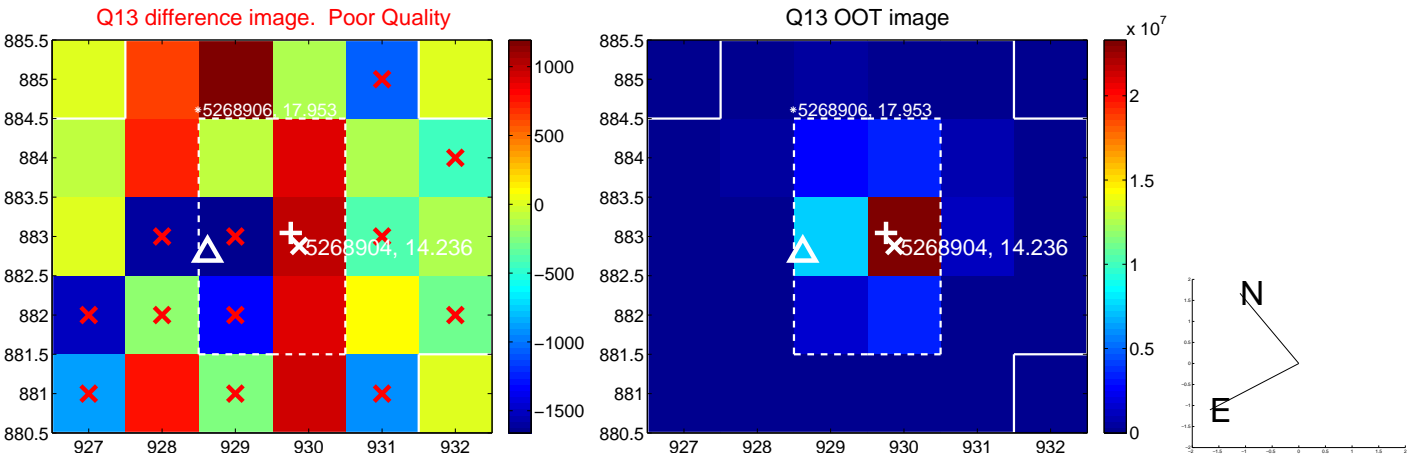
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



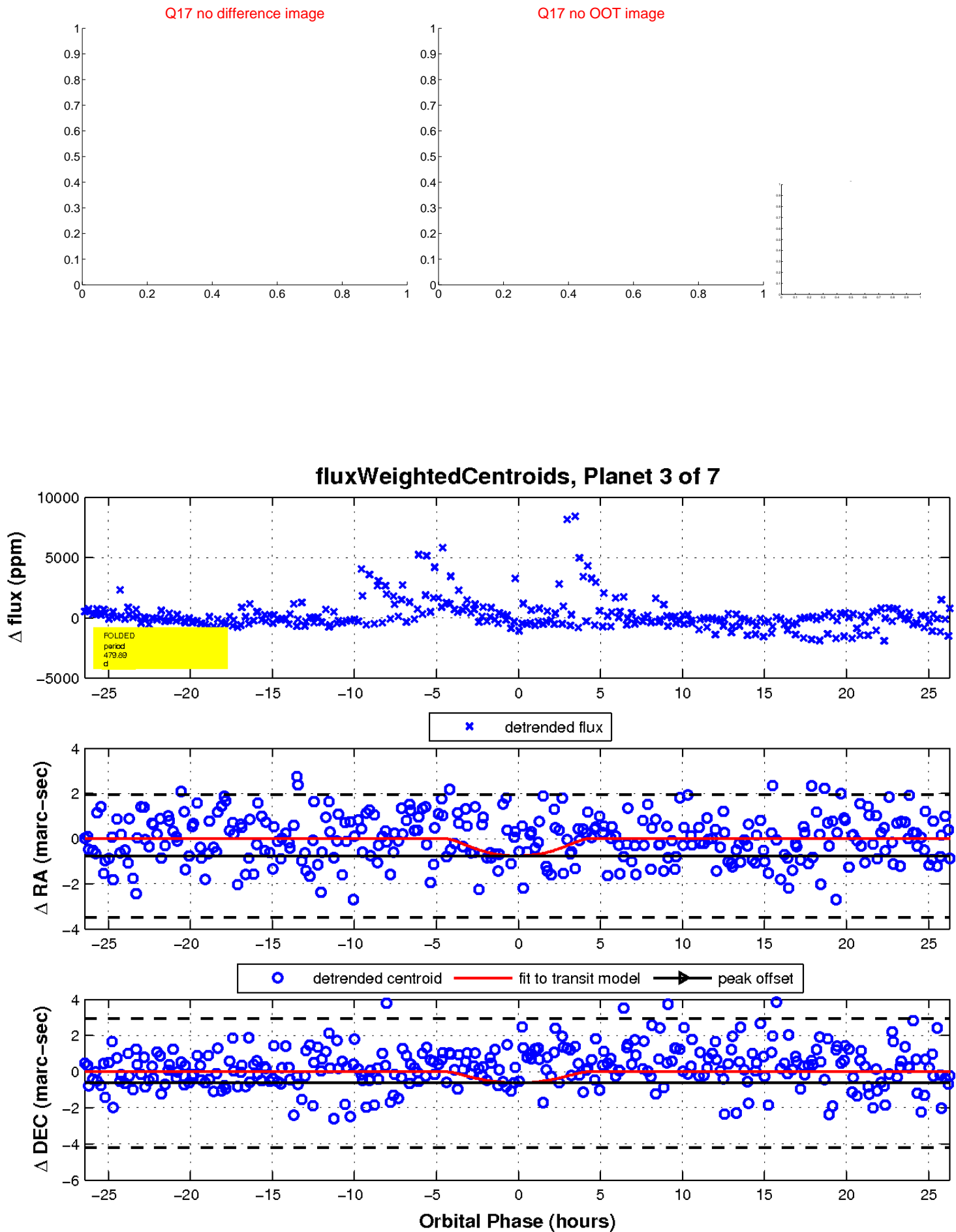
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

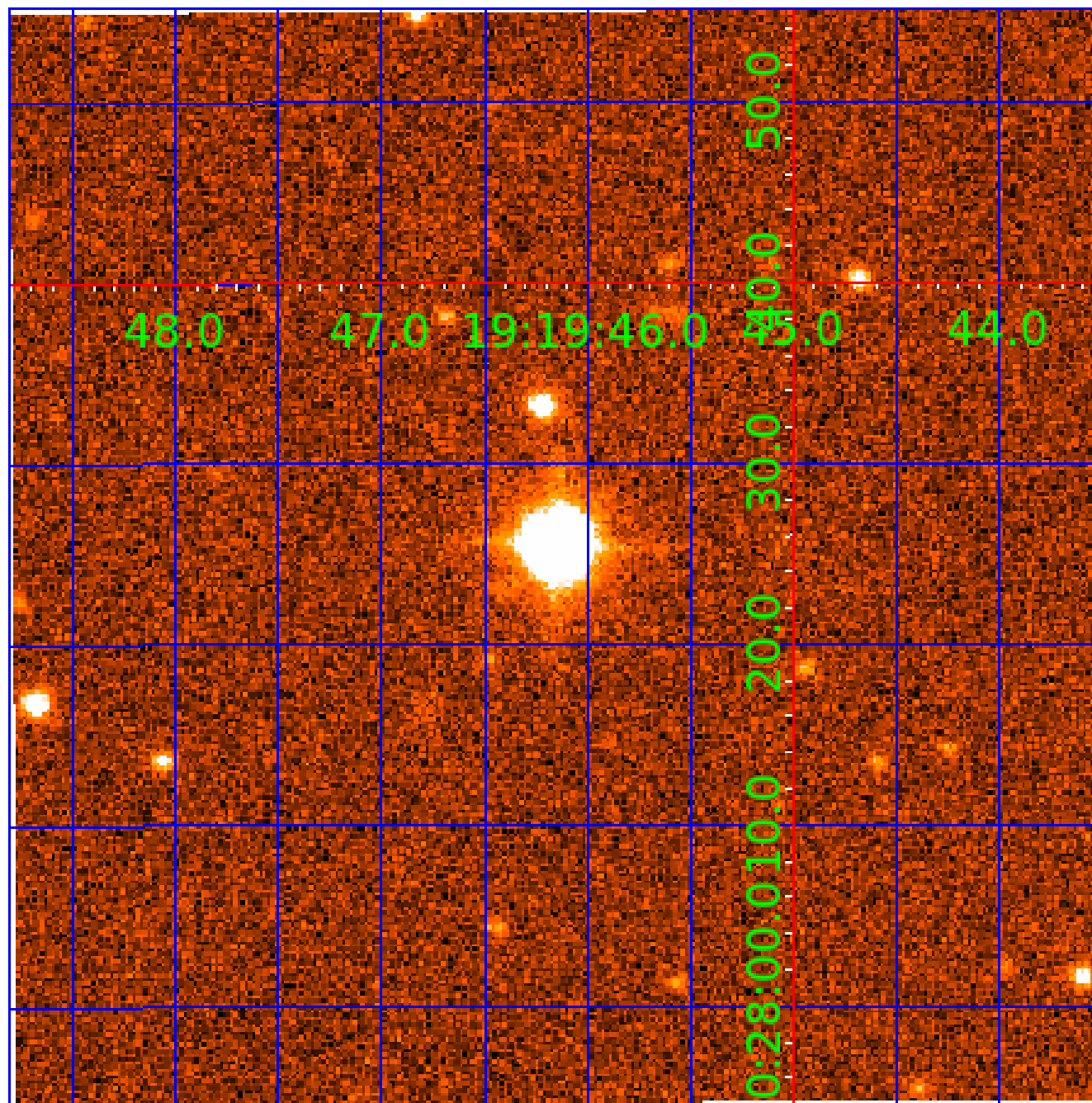


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

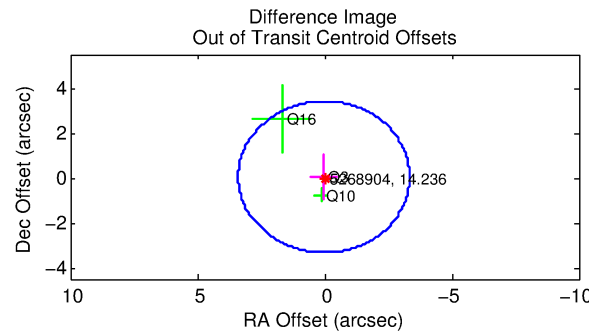
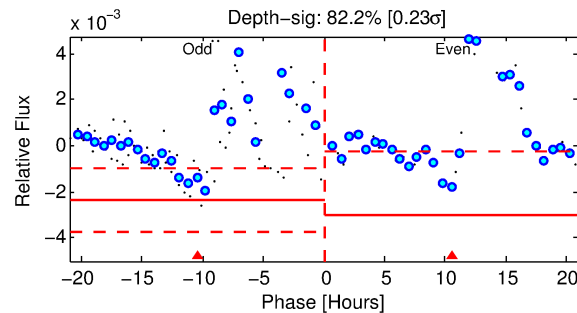
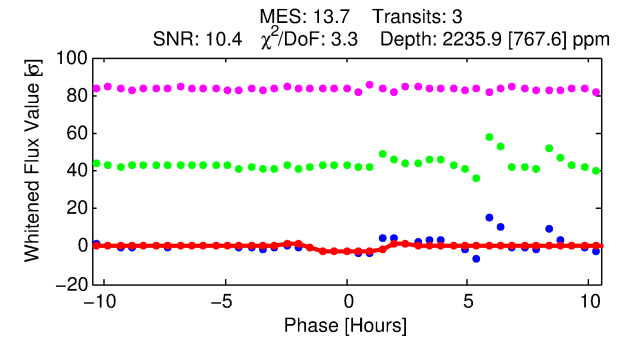
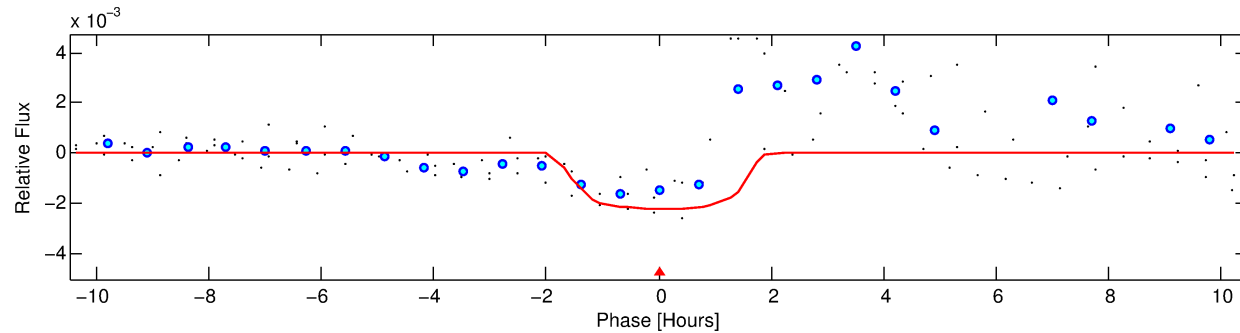
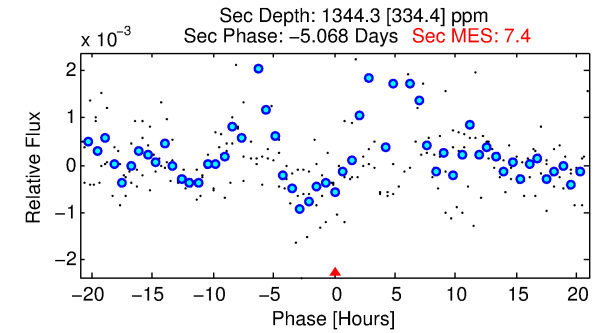
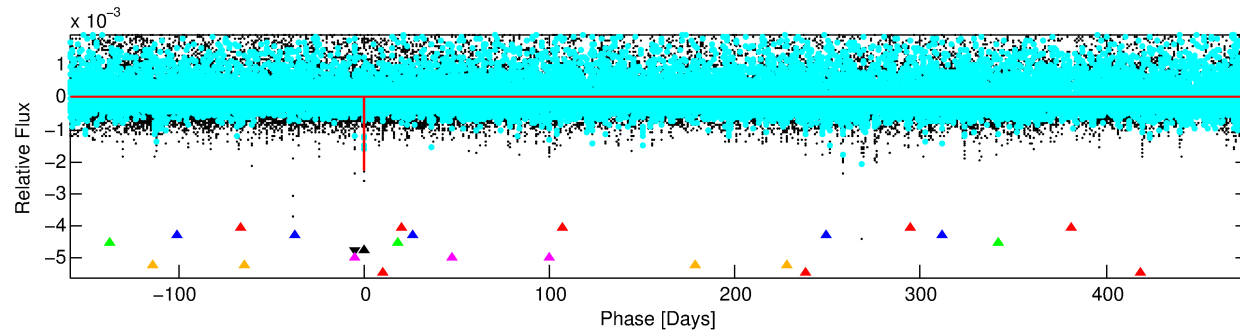
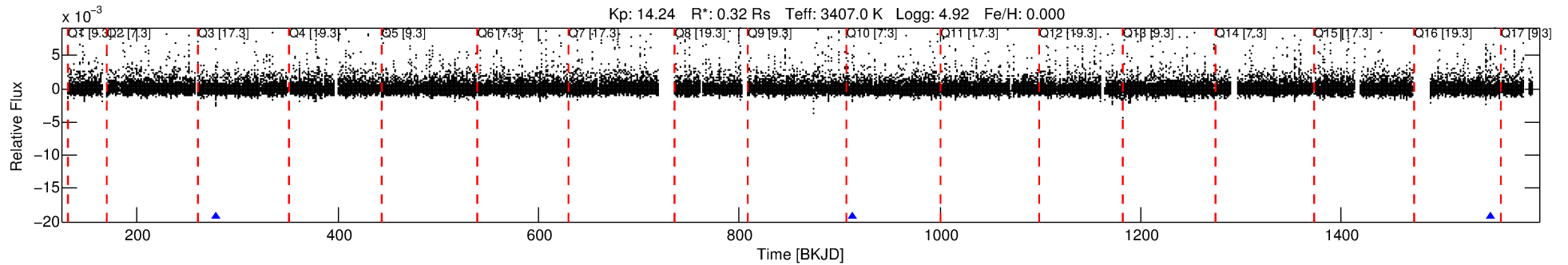
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-04

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 4 of 7 Period: 635.363 d



DV Fit Results:

Period = 635.36345 [0.00894] d
Epoch = 278.1473 [0.0122] BKJD
Rp/R* = 0.0448 [0.0506]
a/R* = 1209.55 [5564.62]
b = 0.58 [5.33]
Seff = 0.01 [0.00]
Teq = 86 [3] K
Rp = 1.58 [1.80] Re
a = 0.9902 [0.1098] AU
Ag = 289591.96 [659940.92] [0.44 σ]
Teffp = 3084 [1754] K [1.71 σ]

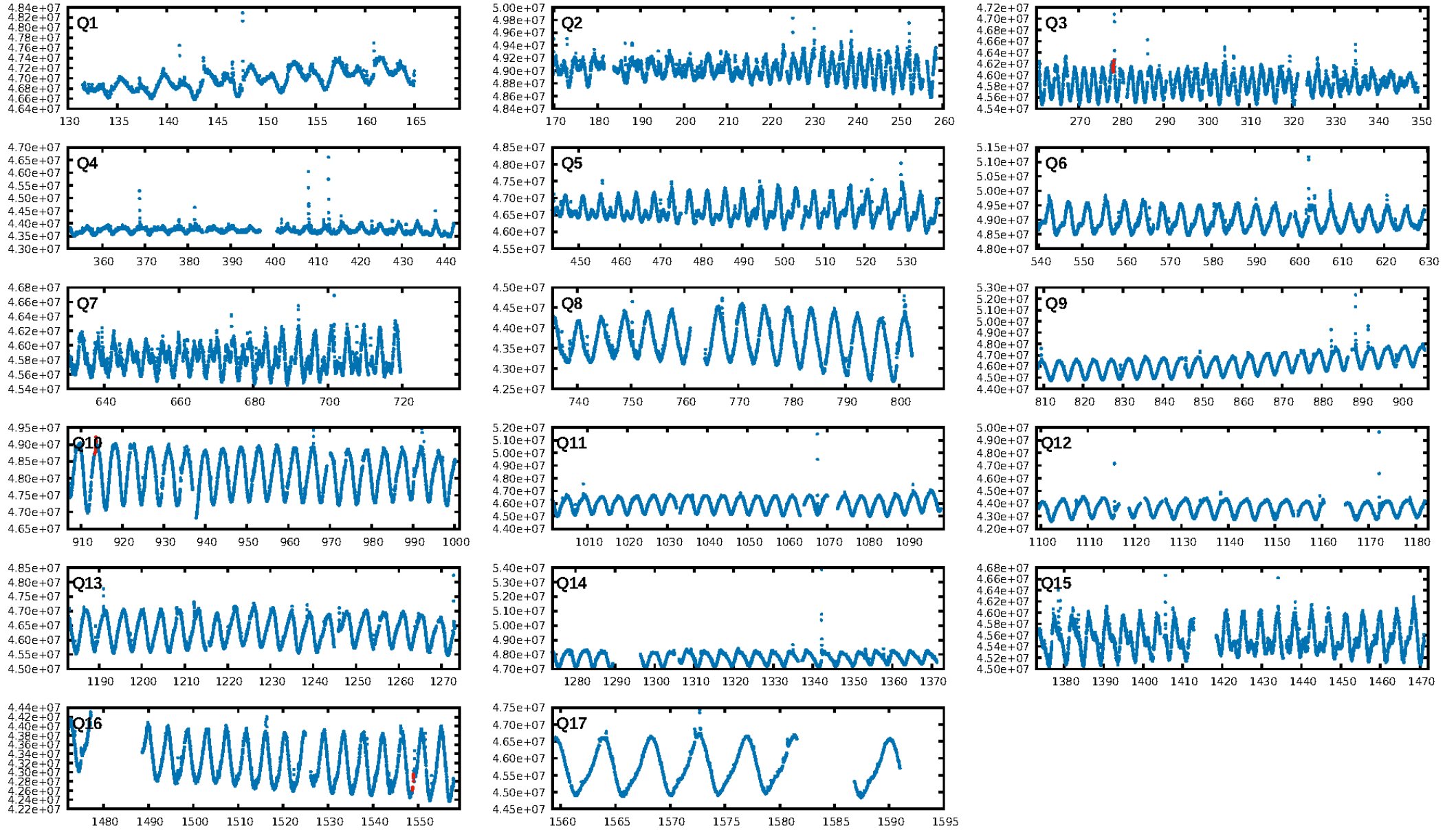
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [159.34 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 30.3%
ModelChiSquareGof-sig: 84.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.603
Centroid-sig: 5.6%
Centroid-so: 0.981 arcsec [2.88 σ]
OotOffset-rm: 0.052 arcsec [0.05 σ]
OotOffset-st: 1/1/1/0 [3]
KicOffset-rm: 0.634 arcsec [0.88 σ]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

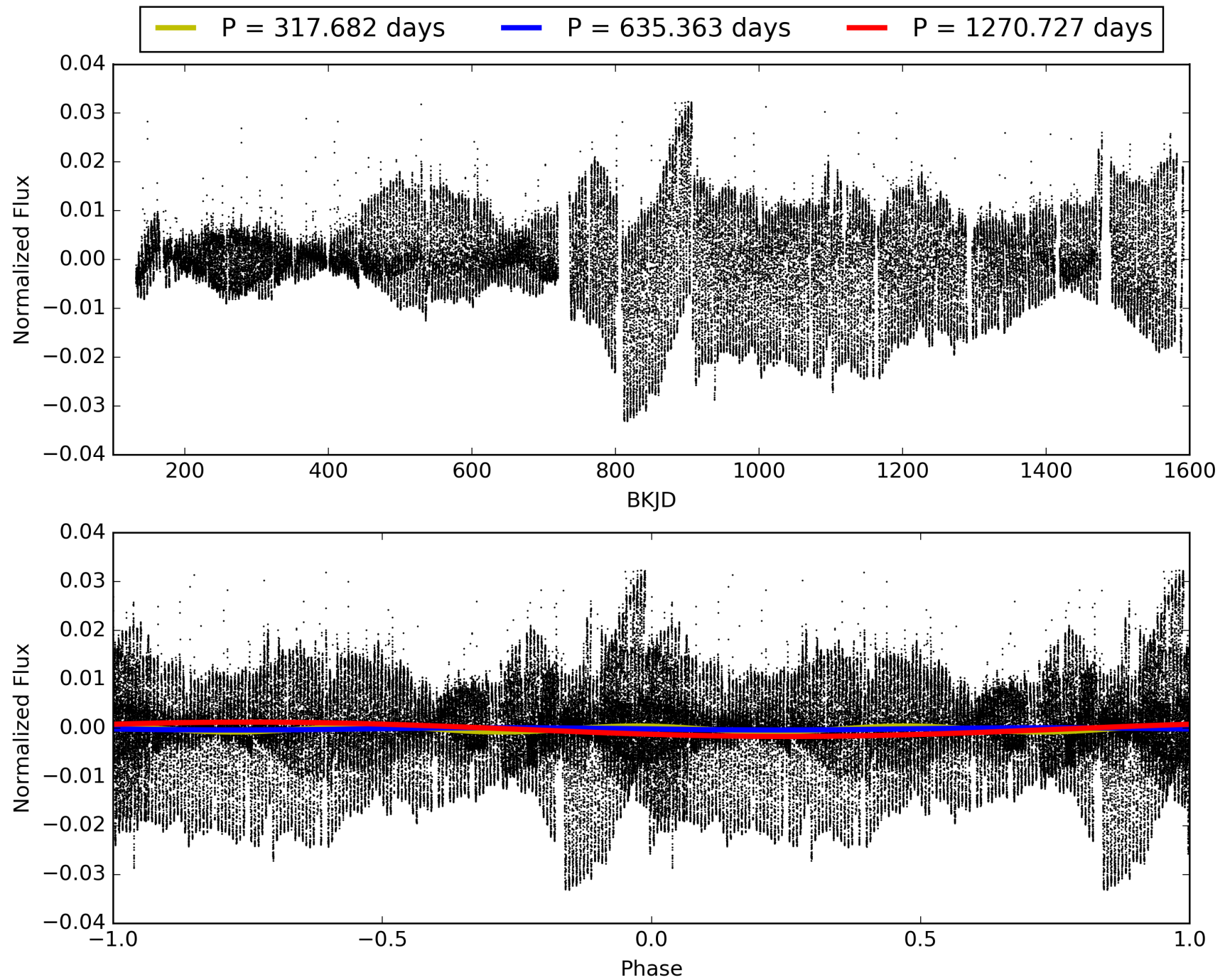
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 13:00:47 Z

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

TCE 005268904-04, PDC Light Curves

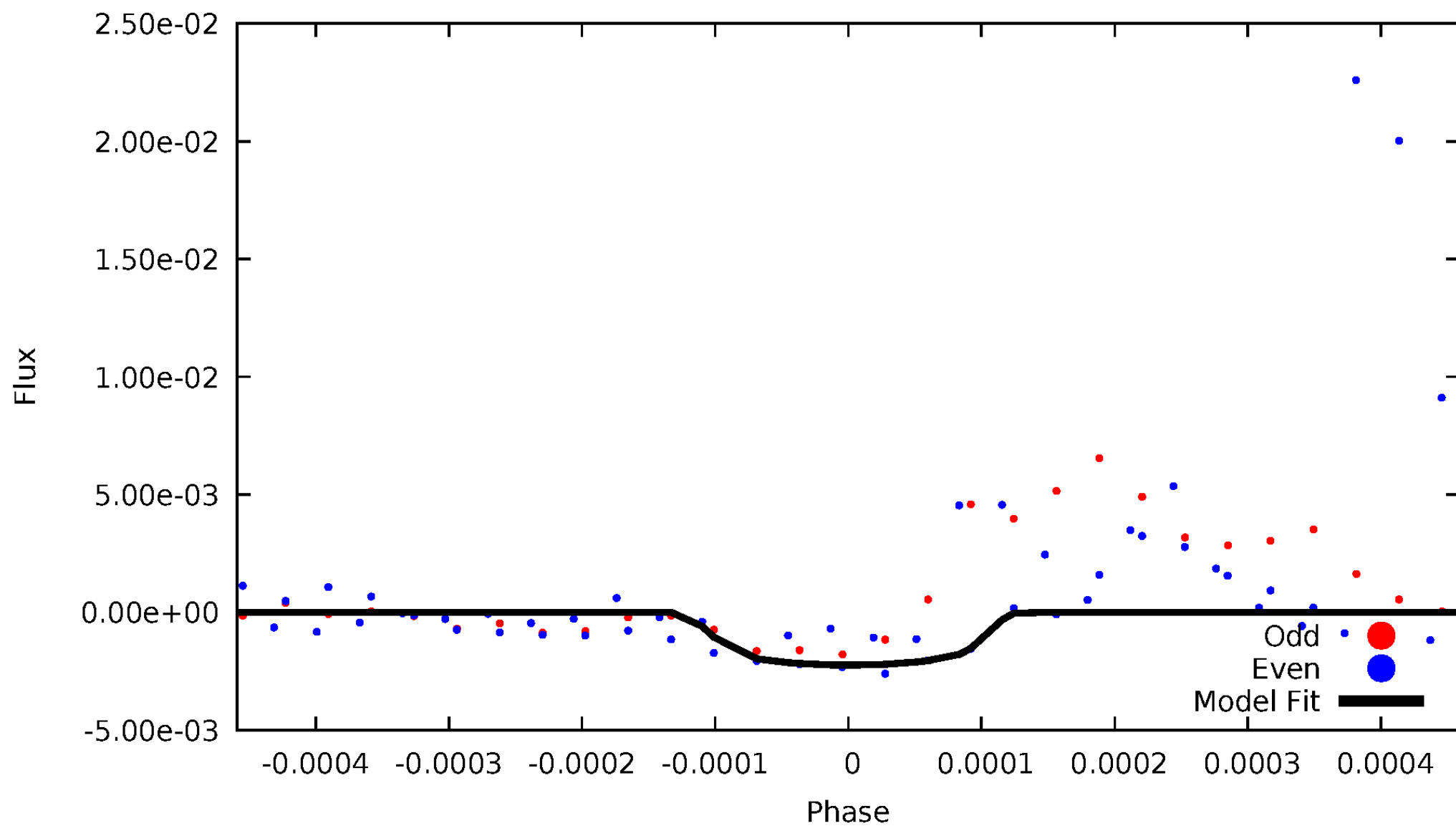


TCE 005268904-04



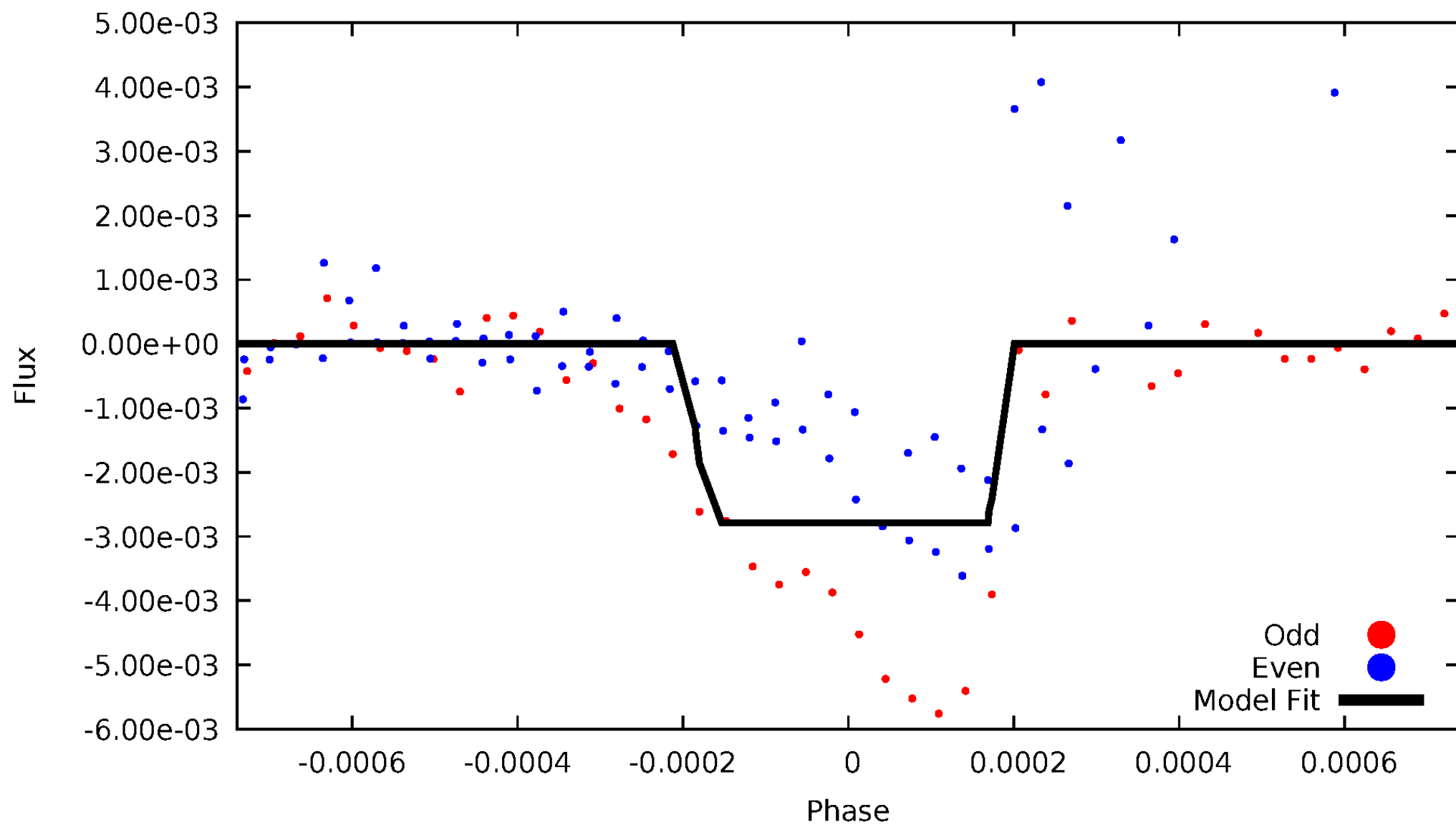
DV Odd/Even

TCE 005268904-04



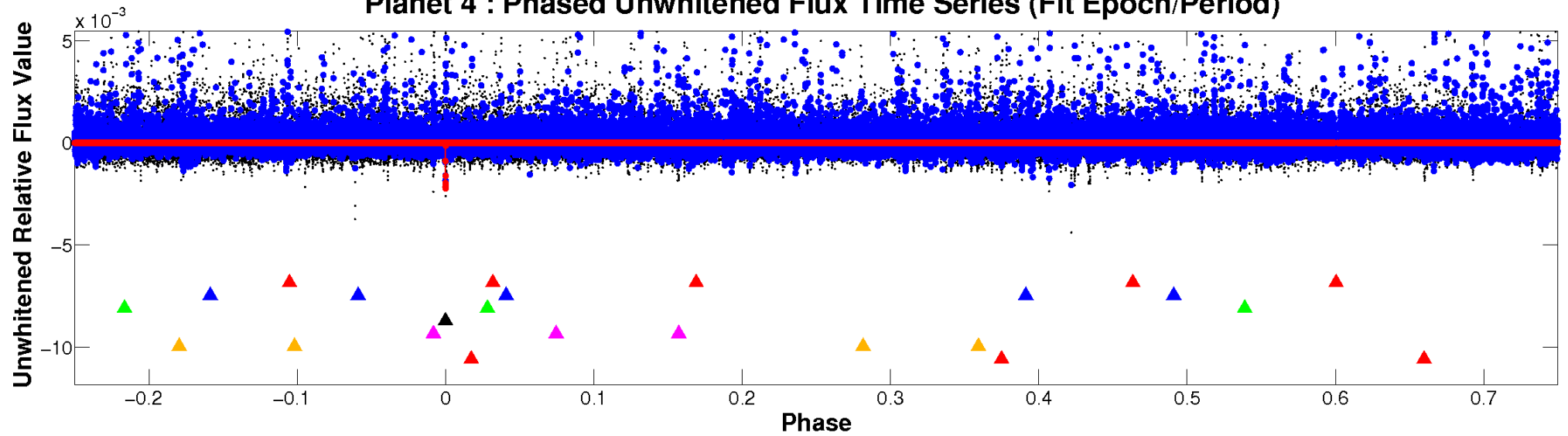
ALT Odd/Even

TCE 005268904-04

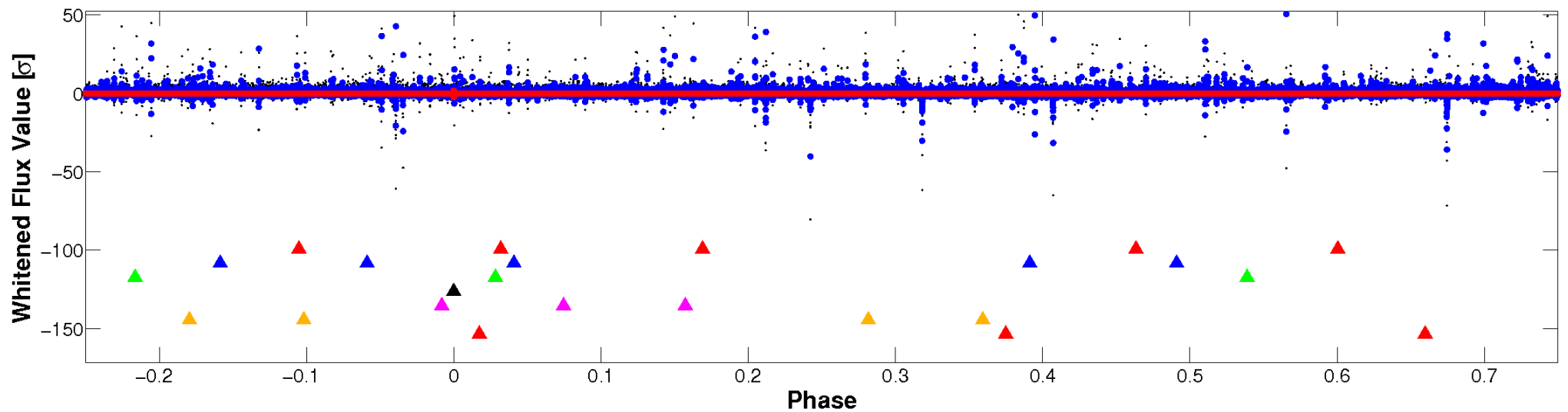


Non-Whitened Vs. Whitened Light Curve

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

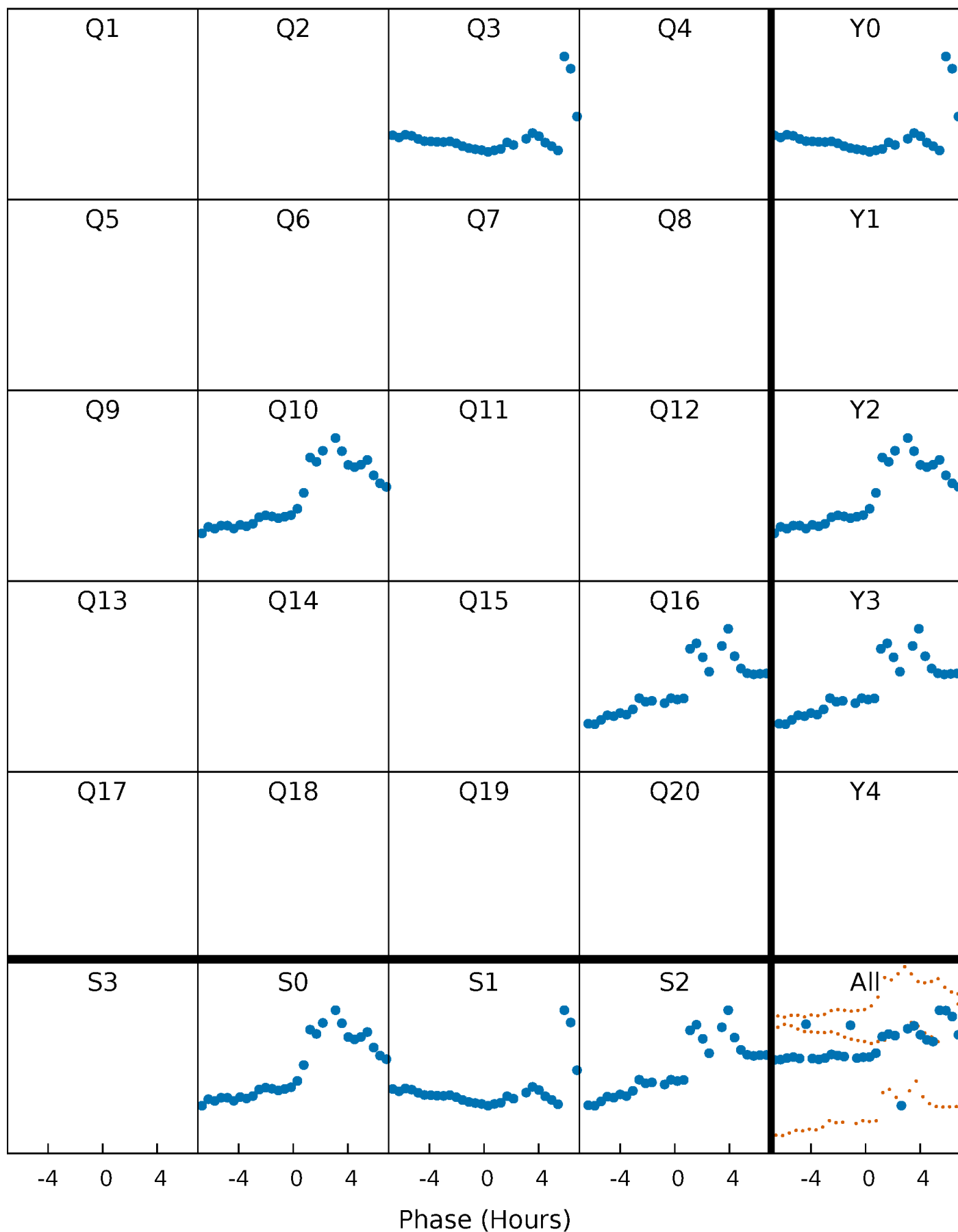


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



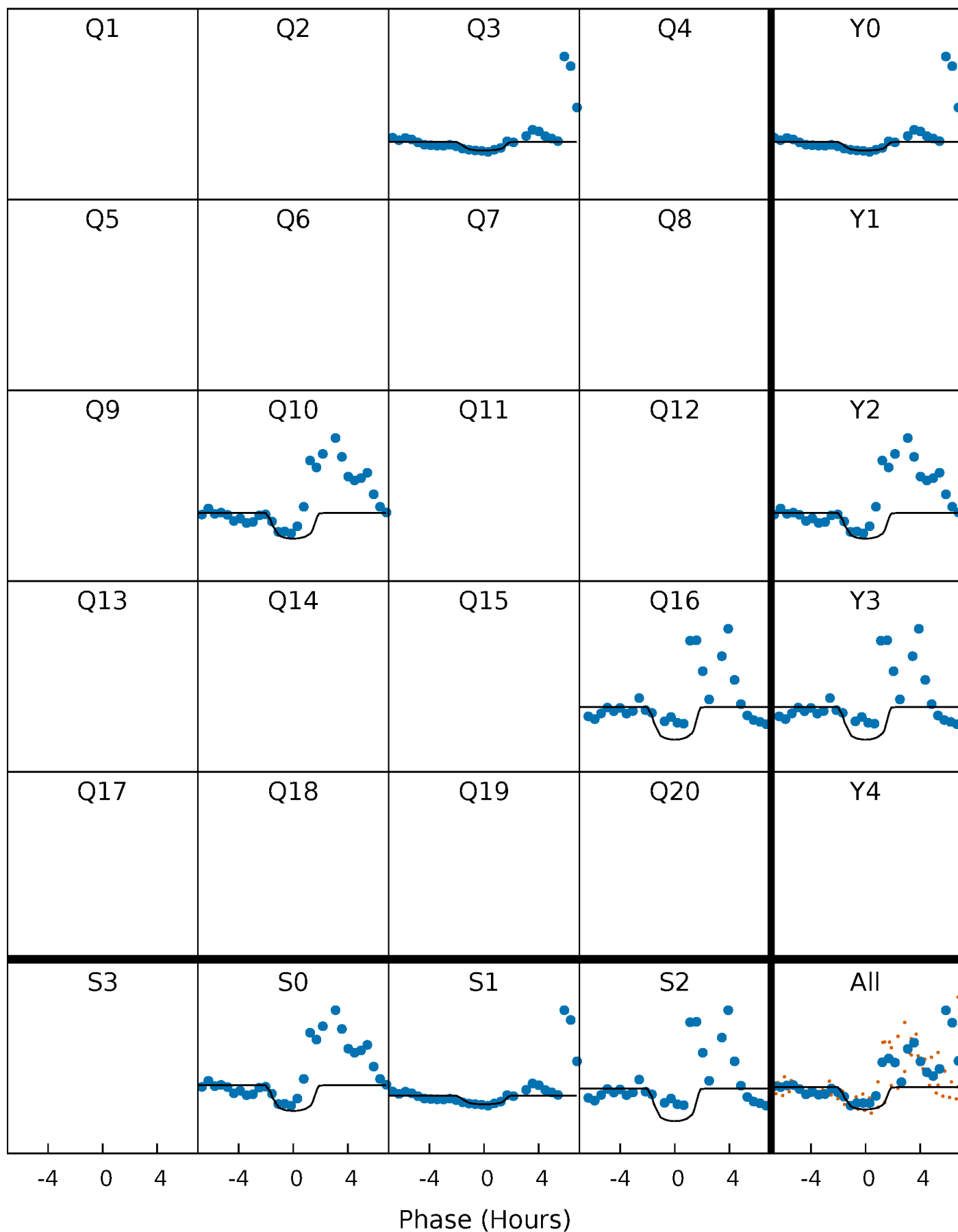
PDC Quarter-Phased Transit Curves

TCE 005268904-04 P=635.363447 Days $T_0=278.147297$ (BKJD)



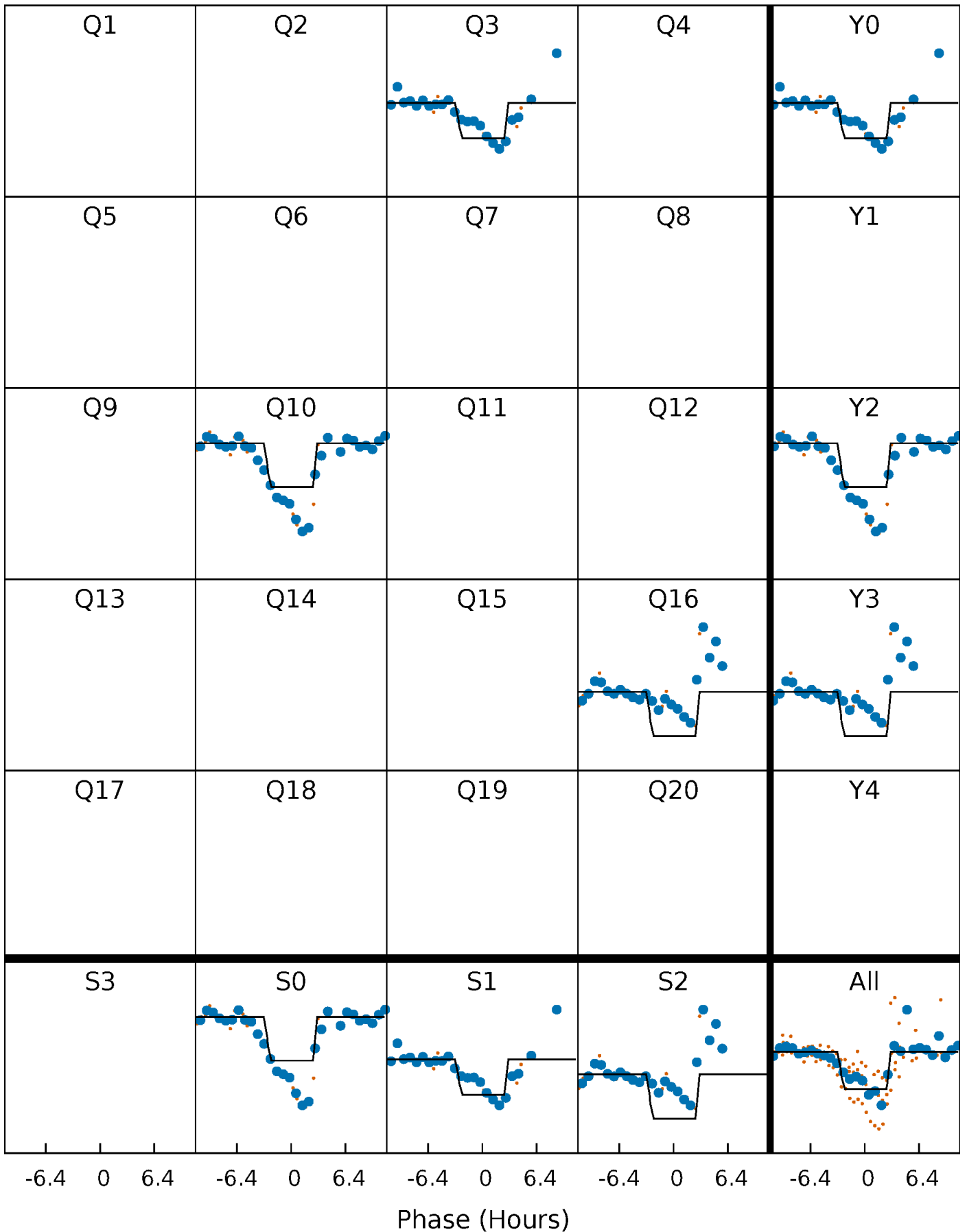
DV Quarter-Phased Transit Curves

TCE 005268904-04 $P=635.363447$ Days $T_0=278.147297$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

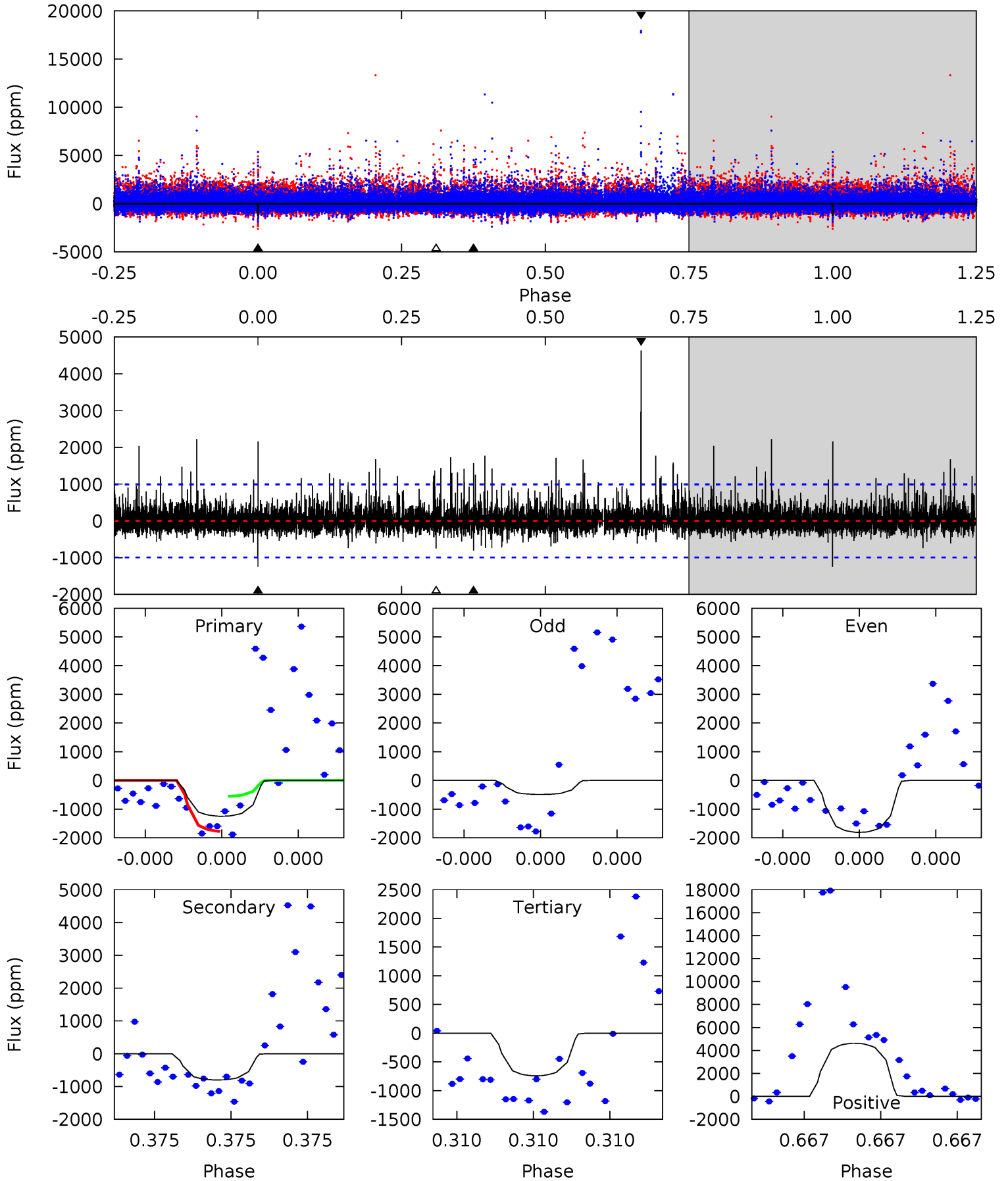
TCE 005268904-04 $P=635.361115$ Days $T_0=278.077244$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-04, P = 635.363447 Days, E = 278.147297 Days

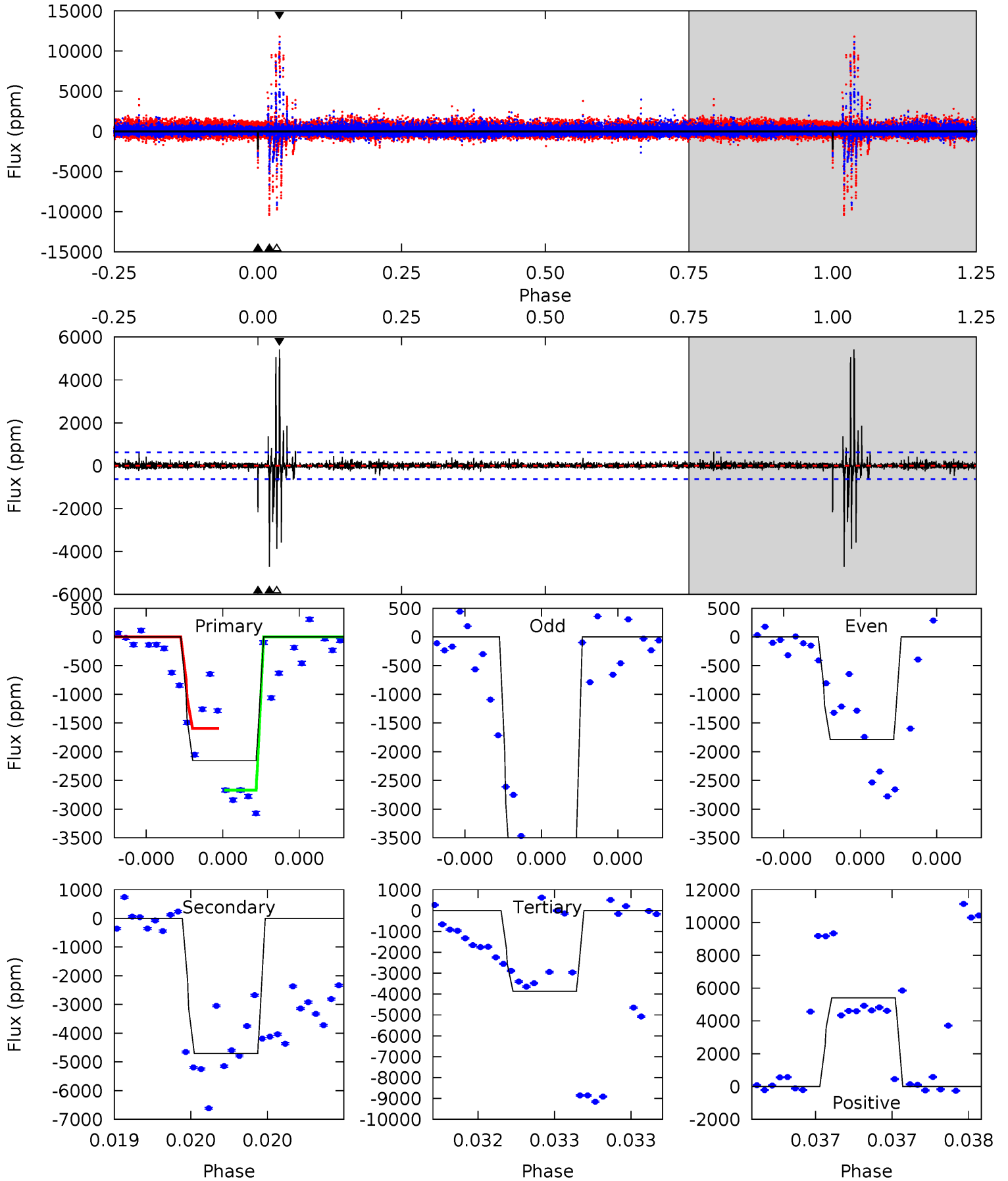
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.18	4.60	4.27	26.6	5.71	3.69	1.44	2.91	-19.4	0.33	-22.0	1.93	1.91	0.79	3.52



Alt Model-Shift Uniqueness Test

005268904-04, P = 635.361115 Days, E = 278.077244 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.4	42.3	34.8	48.7	5.62	3.55	2.22	-15.5	-29.3	7.51	-6.38	9.85	1.12	0.54	4.60



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-801 ± 174	$1.85^{+1.68}_{-1.17}$	120^{+3}_{-4}	2837^{+932}_{-420}	$123343^{+715153}_{-89515}$
Alt.	-4704 ± 111	$2.16^{+1.55}_{-1.30}$	120^{+3}_{-3}	3516^{+1382}_{-515}	$540983^{+2769221}_{-349075}$

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

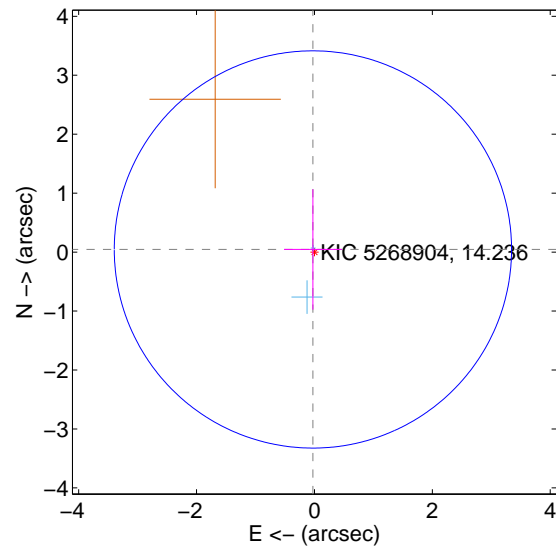
Supplemental centroid analysis for 005268904-04. Kepler magnitude: 14.24. Transit SNR 10.40

There are 2 quarters with good PRF difference image offsets

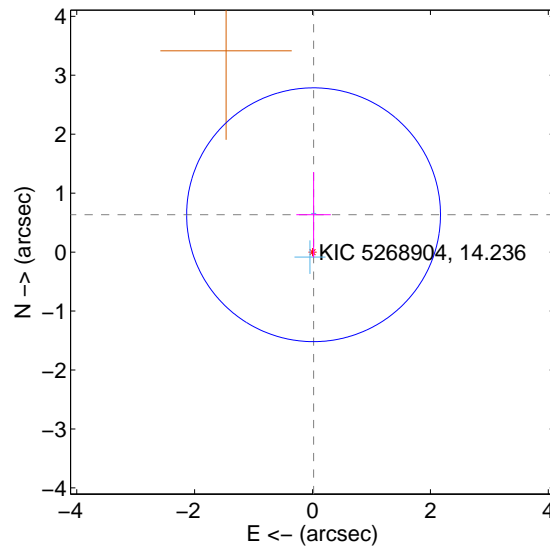
The direct PRF centroid is offset from the target star catalog position by about 0.85 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.052 ± 1.123	0.05	0.026 ± 0.491	0.045 ± 1.020
PRF-fit source offset from KIC position	0.634 ± 0.718	0.88	-0.018 ± 0.293	0.634 ± 0.725
photometric centroid source offset	0.98 ± 0.34	2.88	-0.64 ± 0.30	0.74 ± 0.37

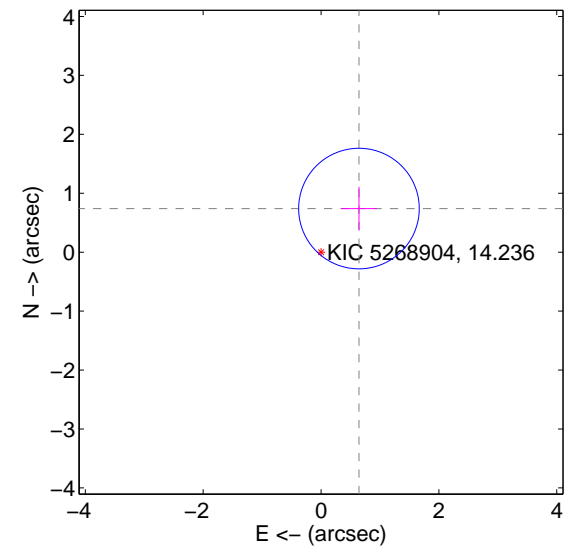
offset from difference PRF-fit to OOT PRF-fit



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.

Q1 no difference image



Q1 no OOT image



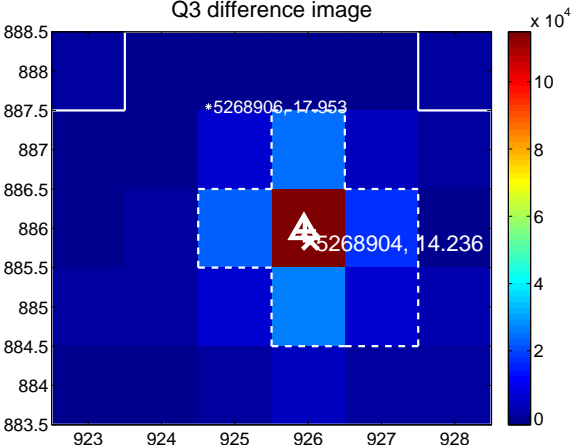
Q2 no difference image



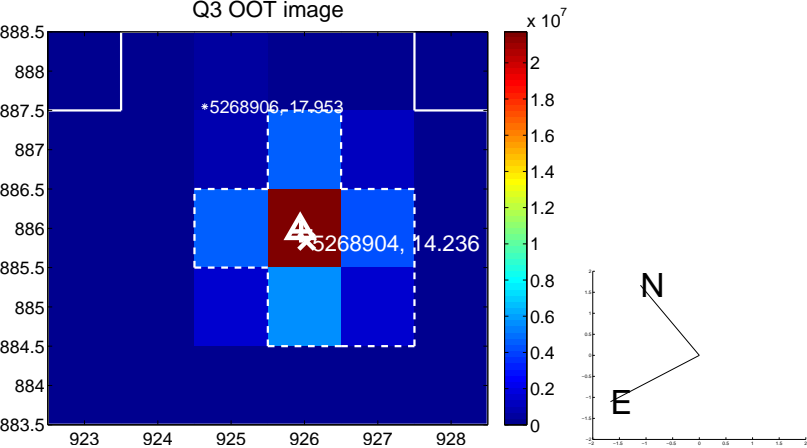
Q2 no OOT image



Q3 difference image



Q3 OOT image



Q4 no difference image



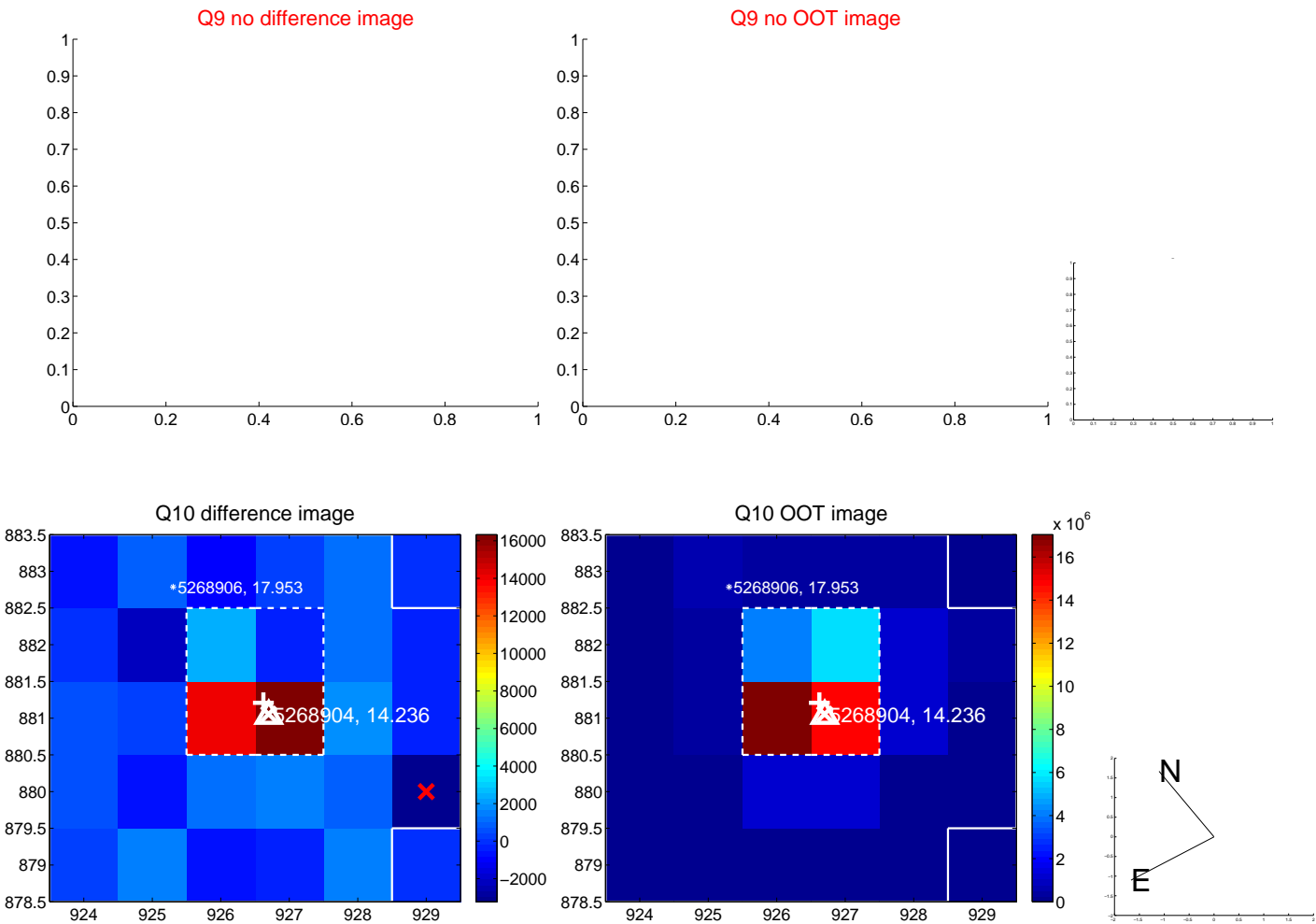
Q4 no OOT image



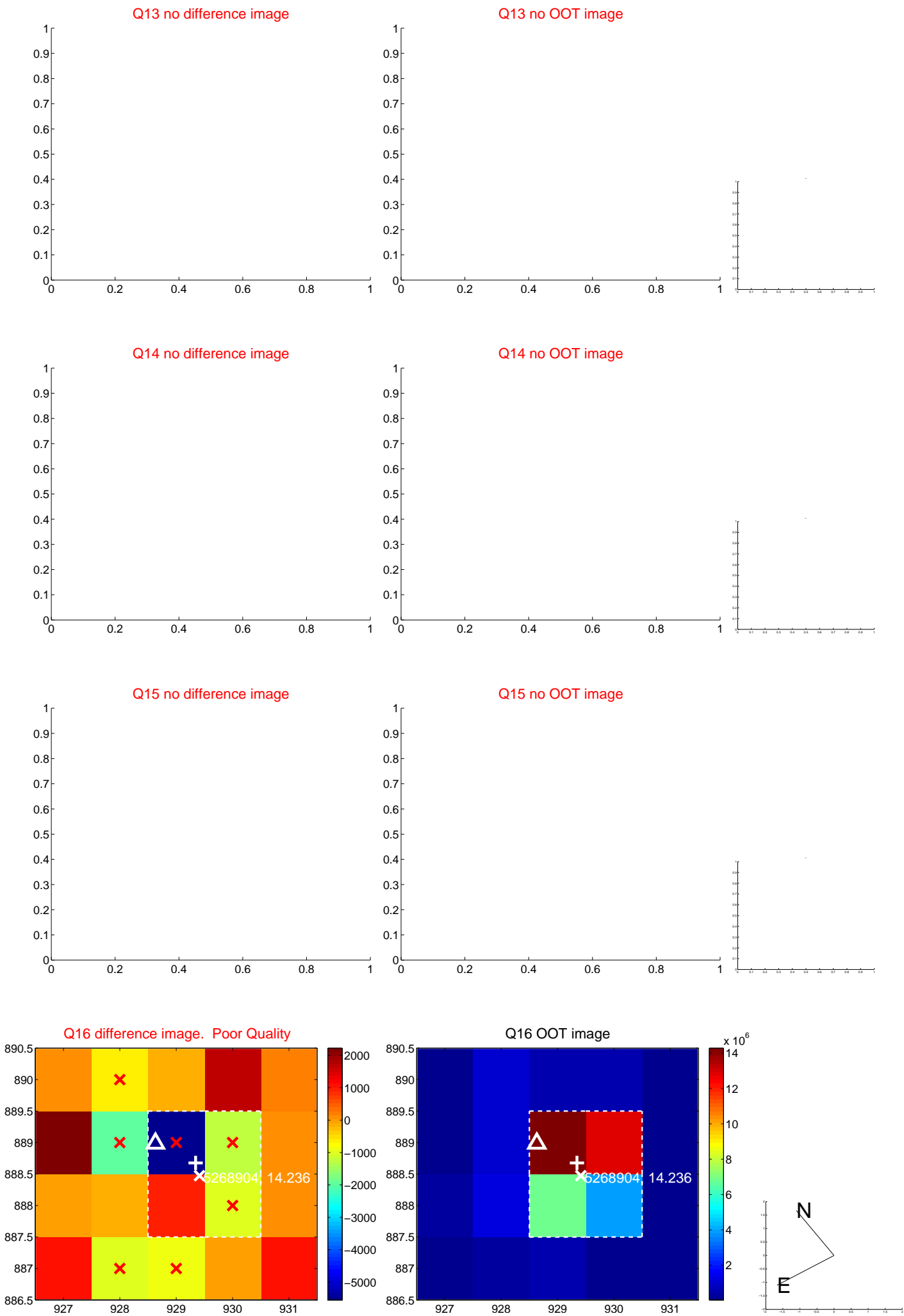
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



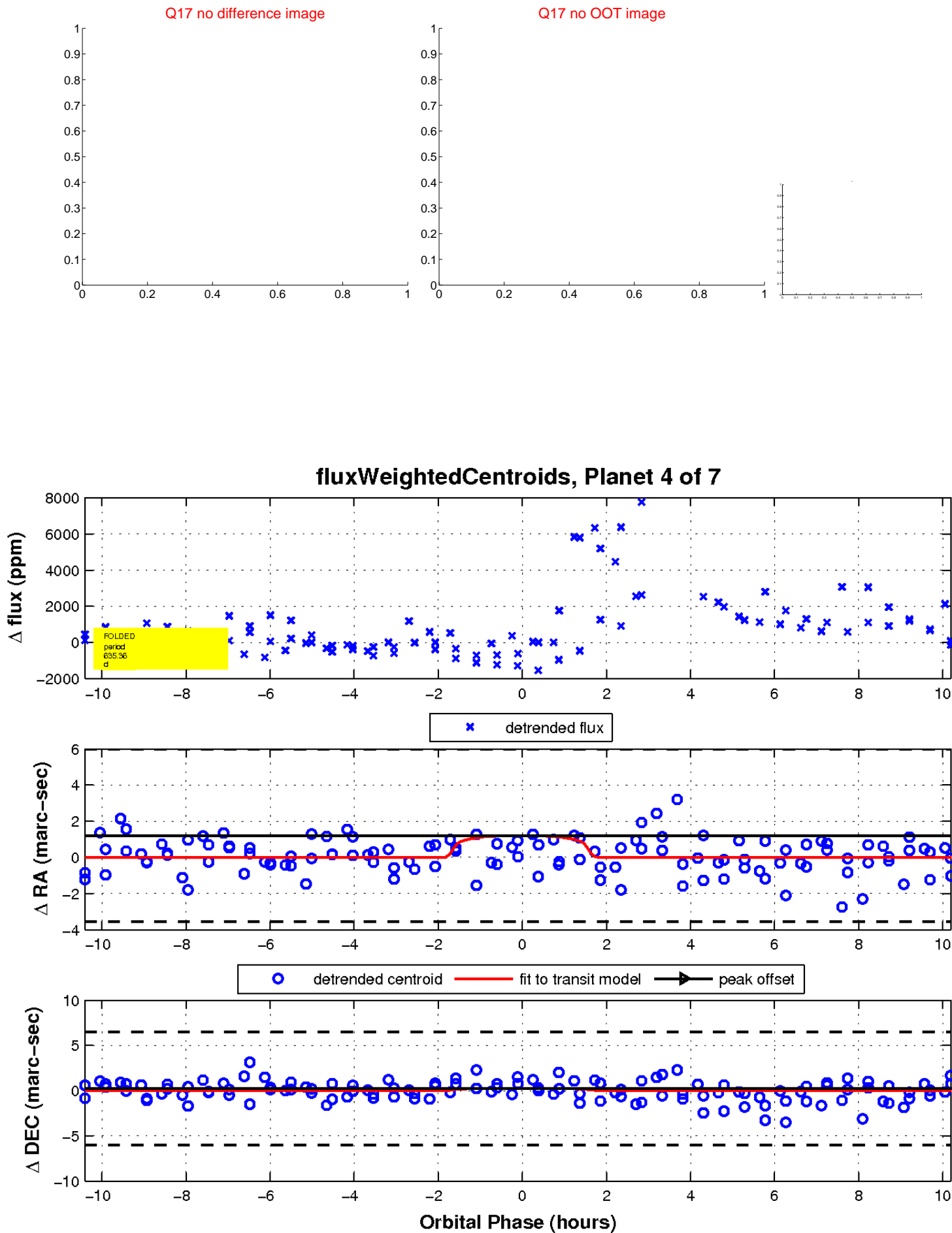
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

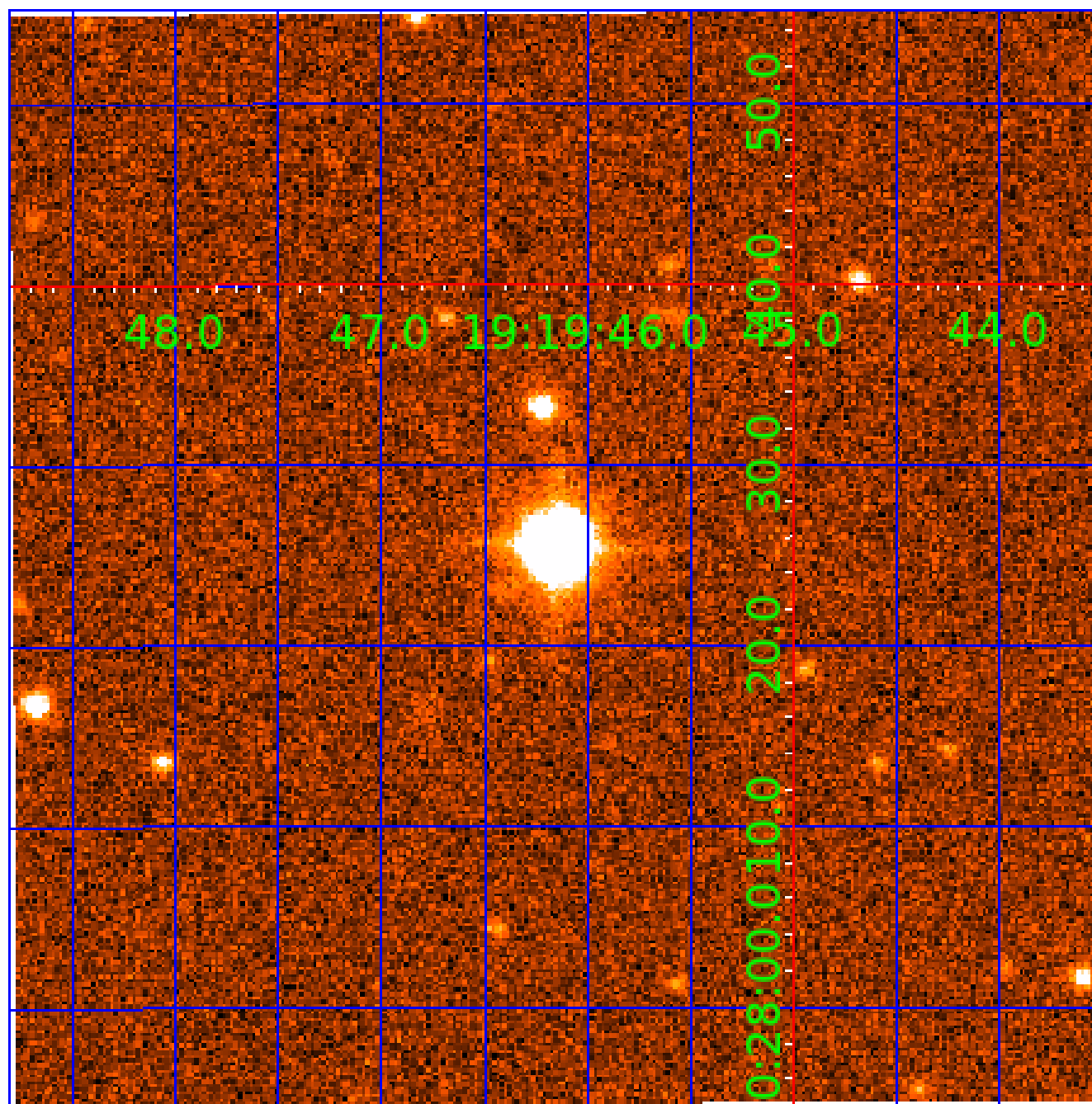


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

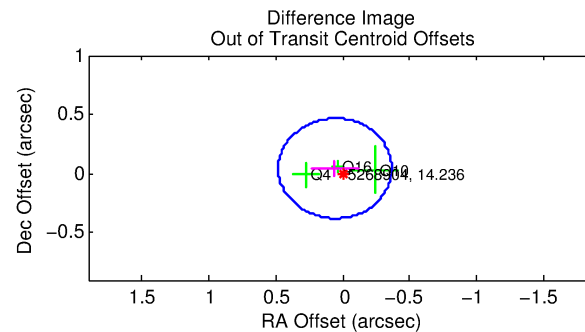
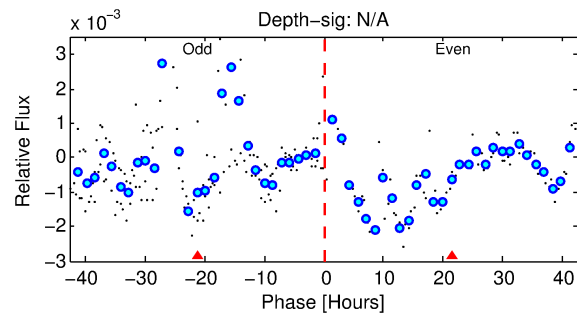
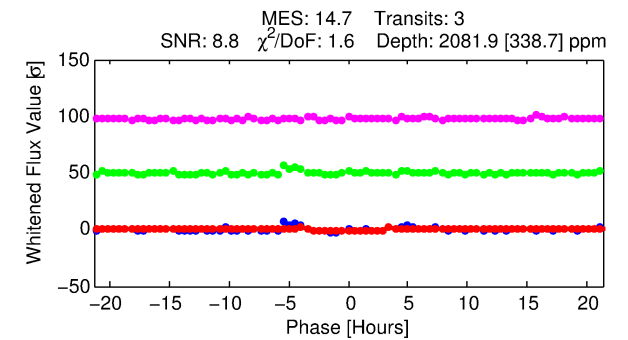
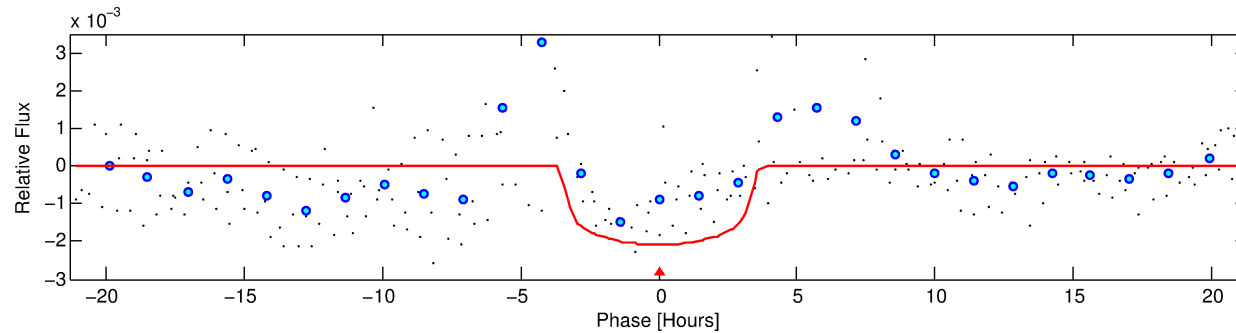
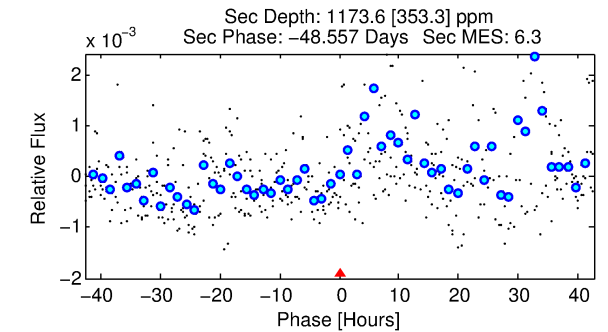
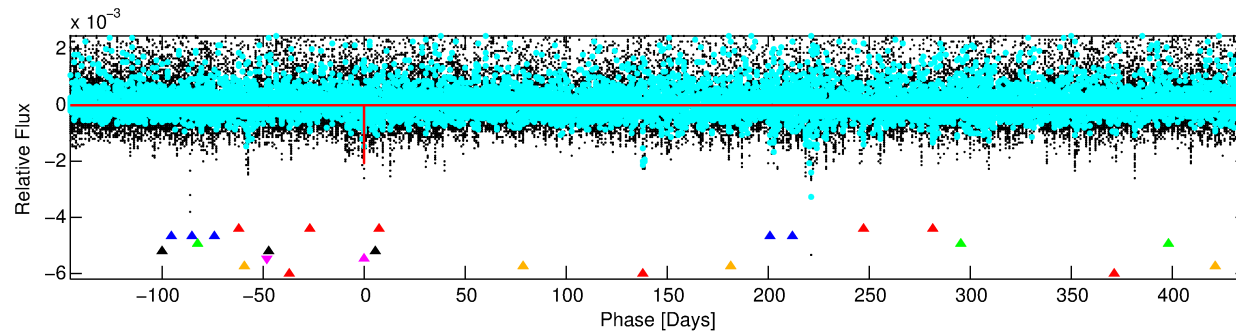
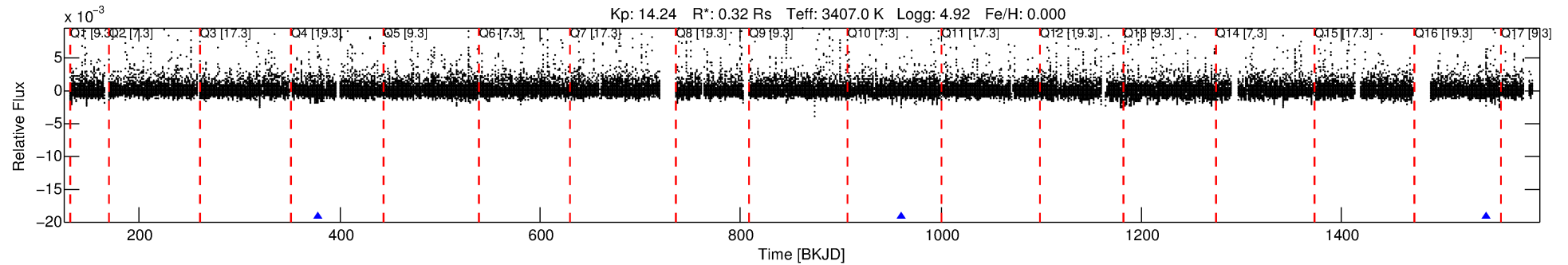
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-05

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 5 of 7 Period: 582.825 d



DV Fit Results:

Period = 582.82513 [0.00510] d
Epoch = 378.0805 [0.0065] BKJD
Rp/R* = 0.0414 [0.0194]
a/R* = 643.12 [1222.21]
b = 0.18 [10.10]
Seff = 0.01 [0.00]
Teq = 88 [3] K
Rp = 1.46 [0.72] Re
a = 0.9349 [0.1036] AU
Ag = 263951.69 [262641.48] [1.00]
Teffp = 3101 [766] K [3.93]

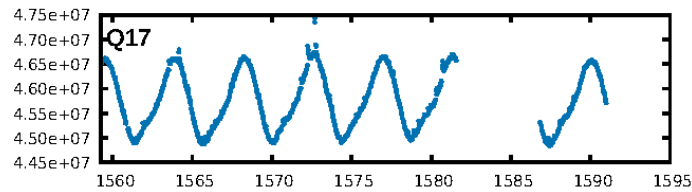
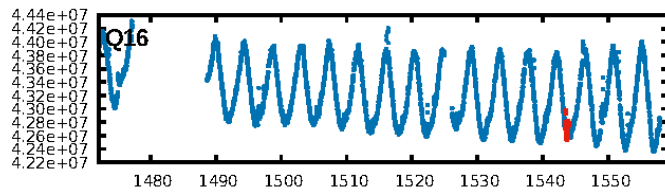
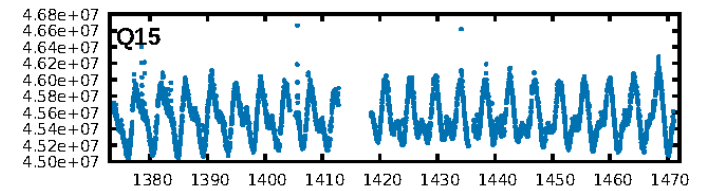
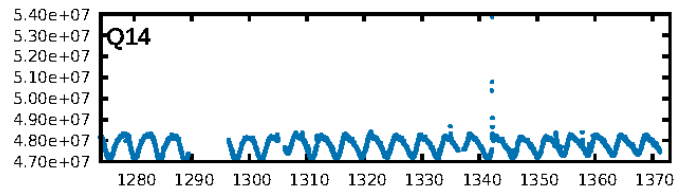
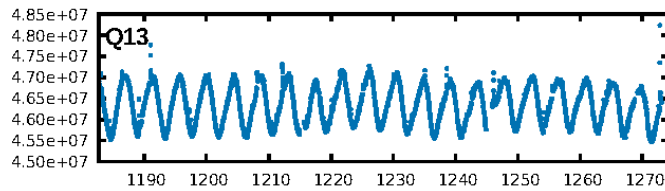
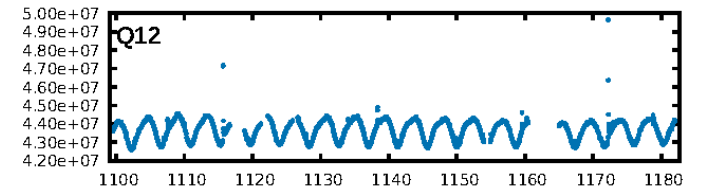
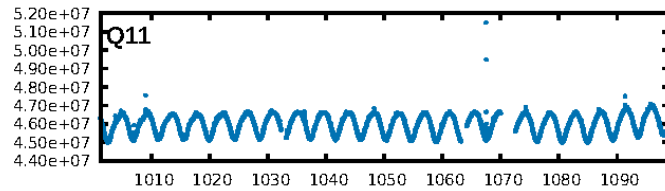
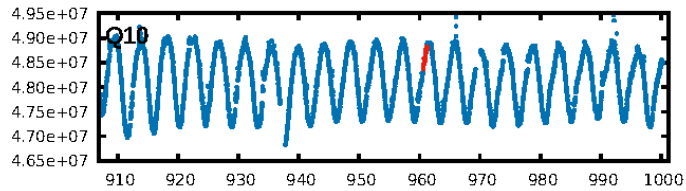
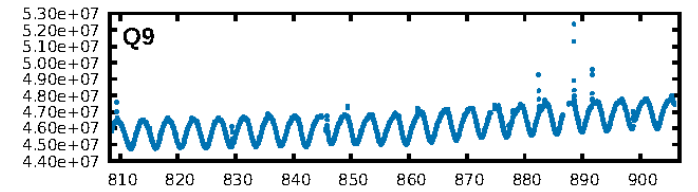
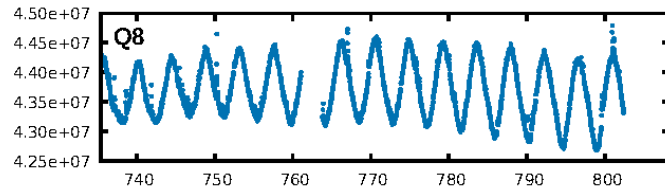
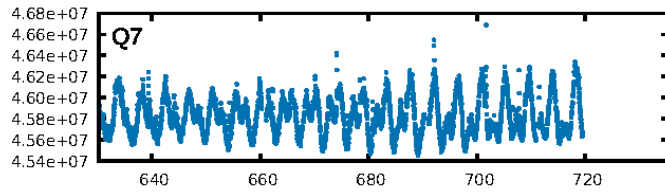
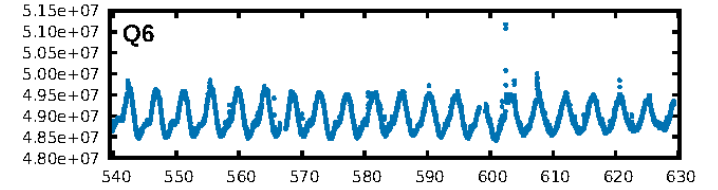
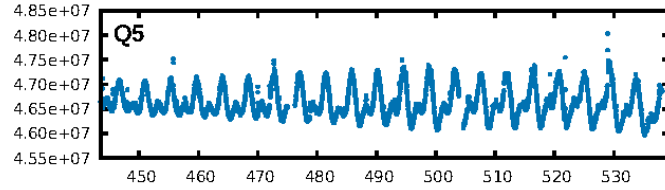
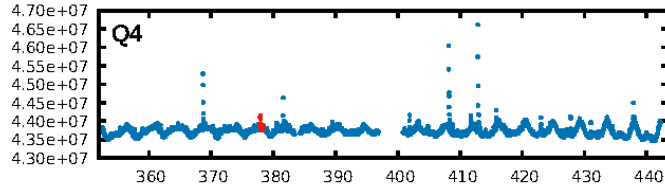
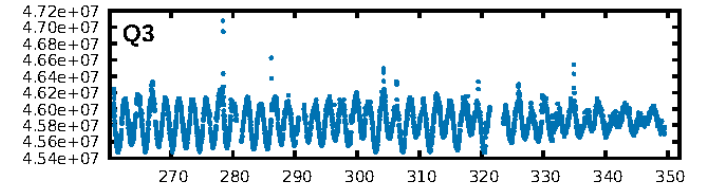
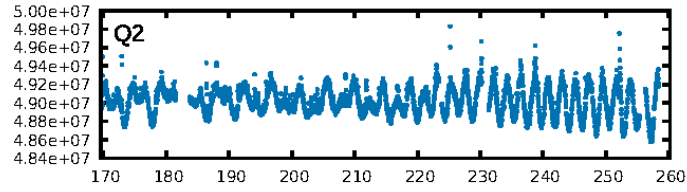
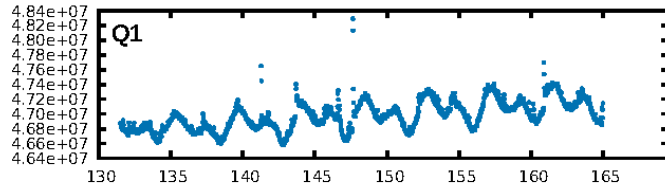
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [218.03]
LongPeriod-sig: 100.0% [159.34]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 62.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.12
Centroid-sig: 16.4%
Centroid-so: 0.537 arcsec [1.78]
OotOffset-rm: 0.072 arcsec [0.51]
OotOffset-st: 1/0/2/0 [3]
KicOffset-rm: 0.838 arcsec [8.10]
KicOffset-st: 1/0/2/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

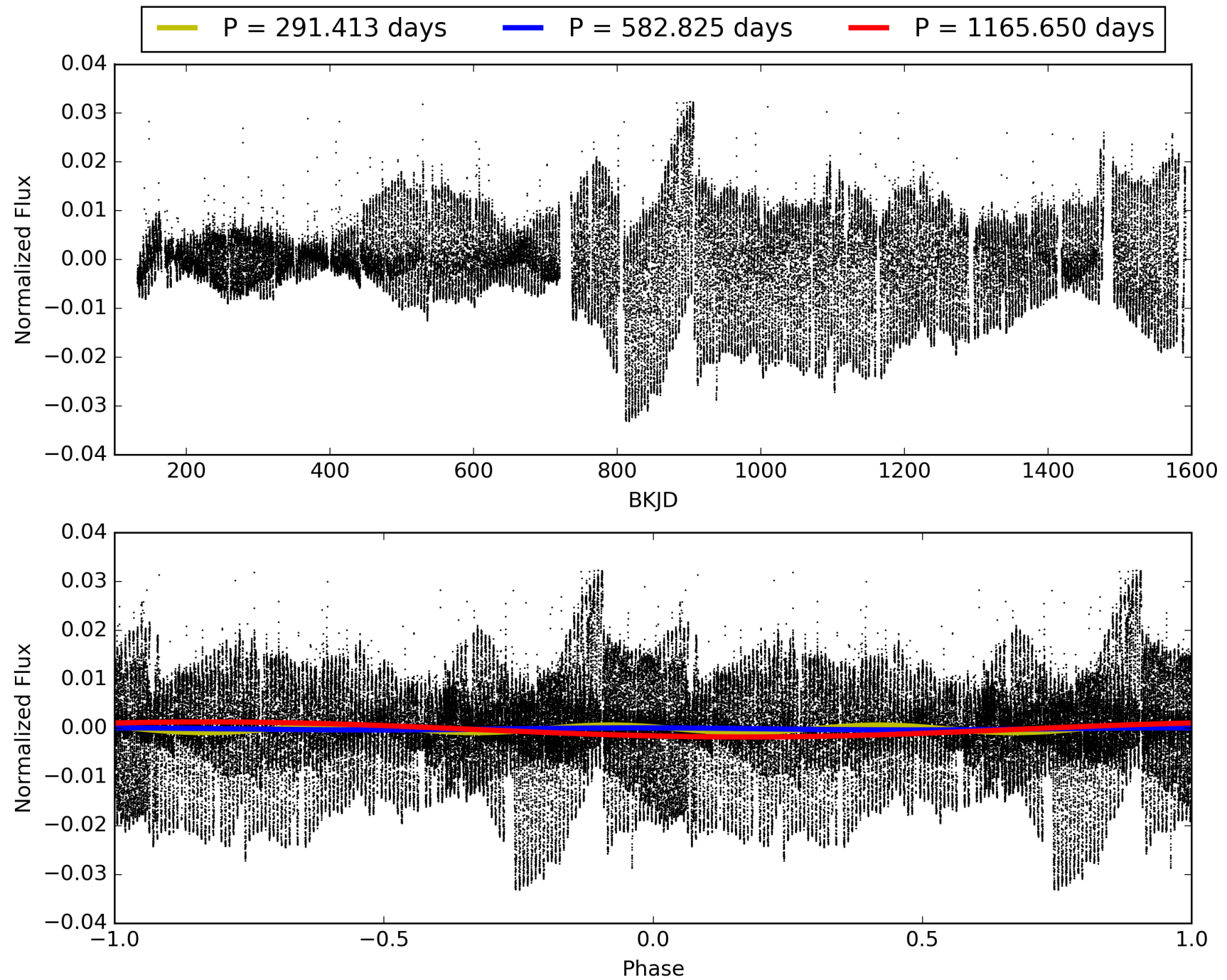
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 13:01:02 Z

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

TCE 005268904-05, PDC Light Curves

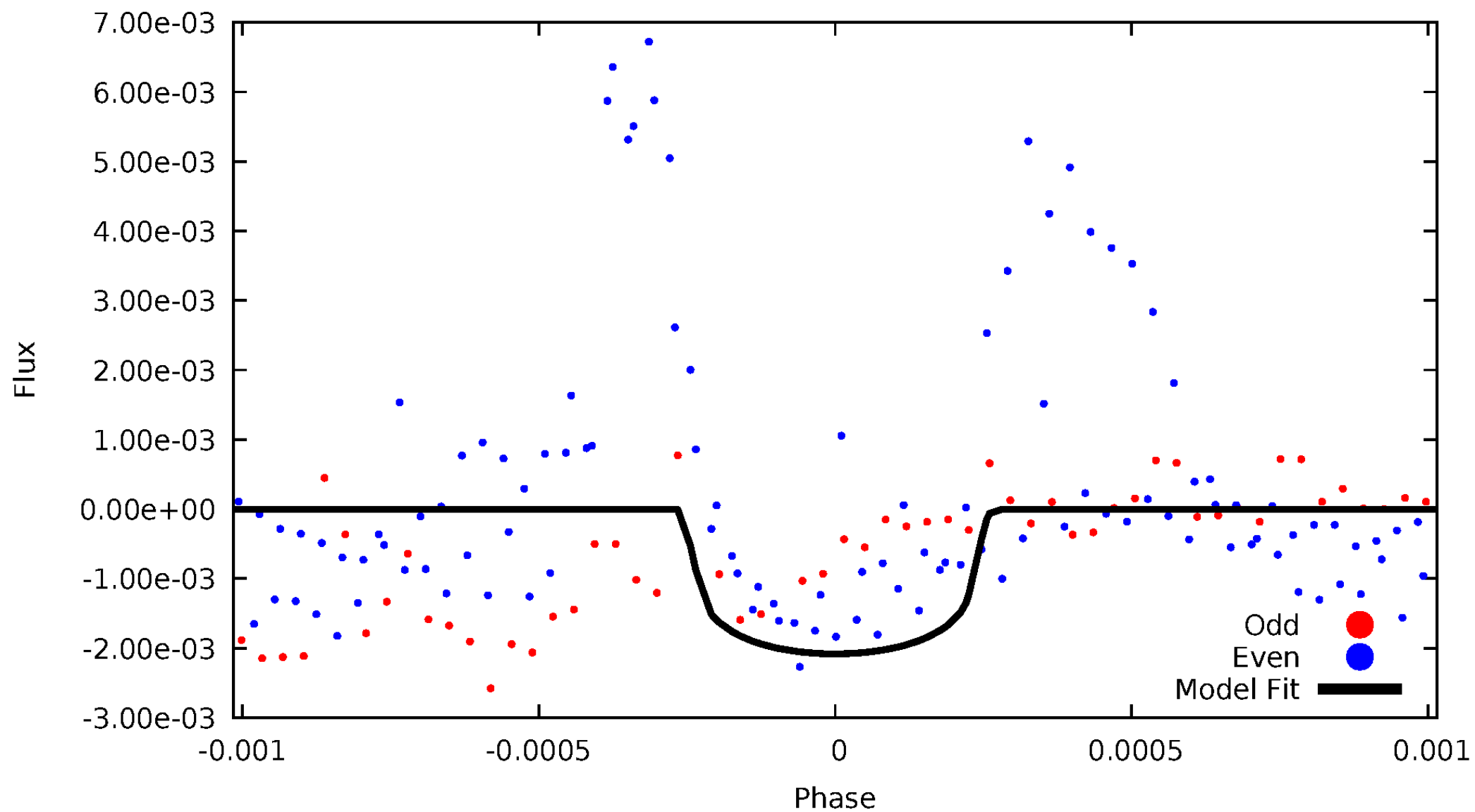


TCE 005268904-05



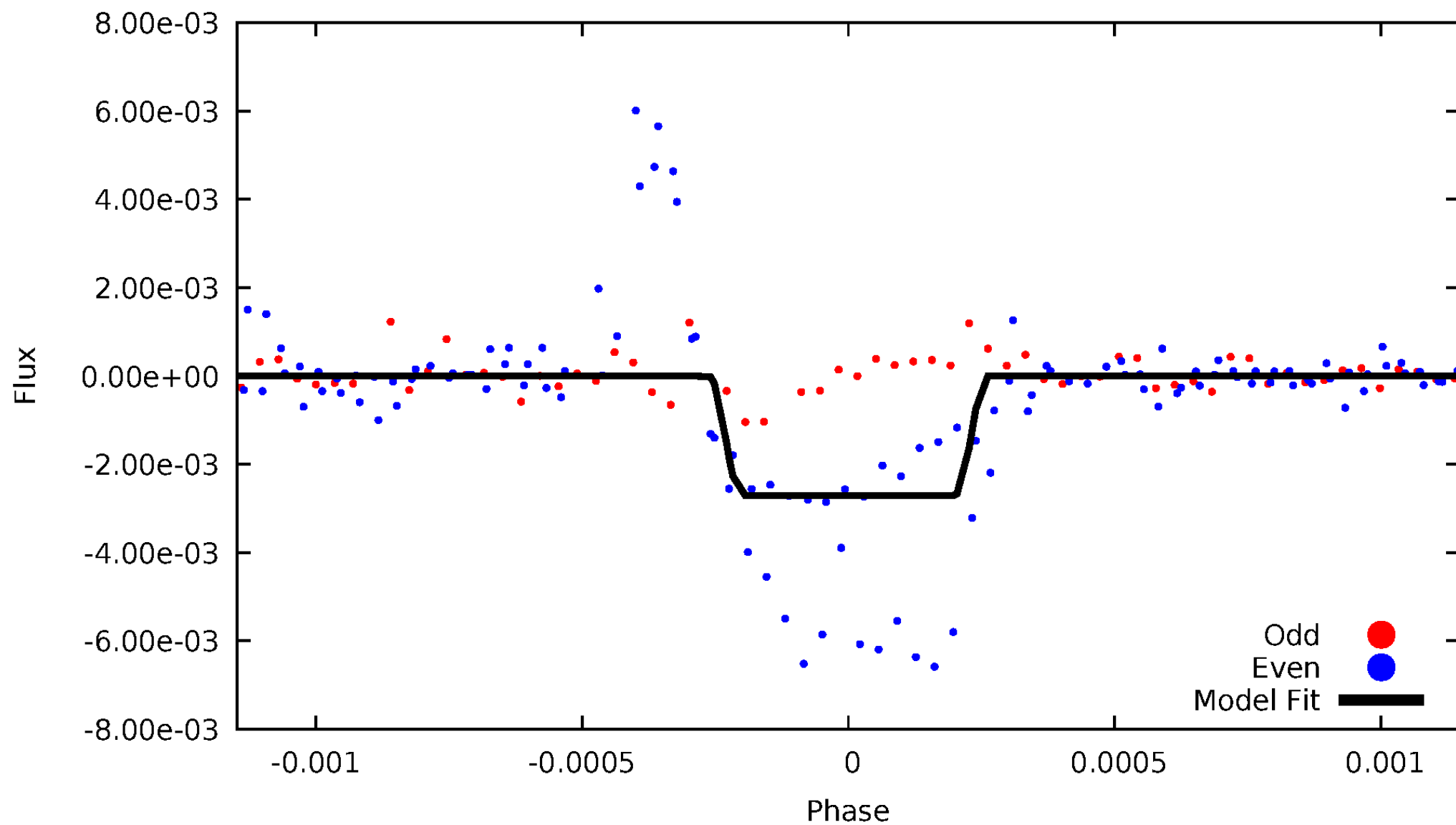
DV Odd/Even

TCE 005268904-05

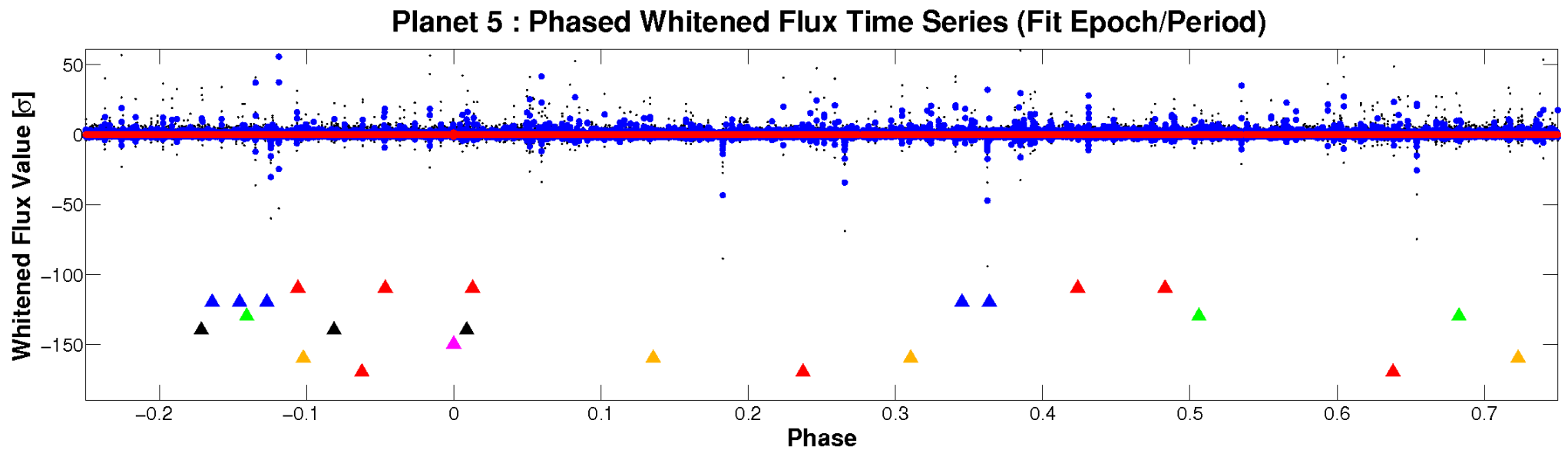
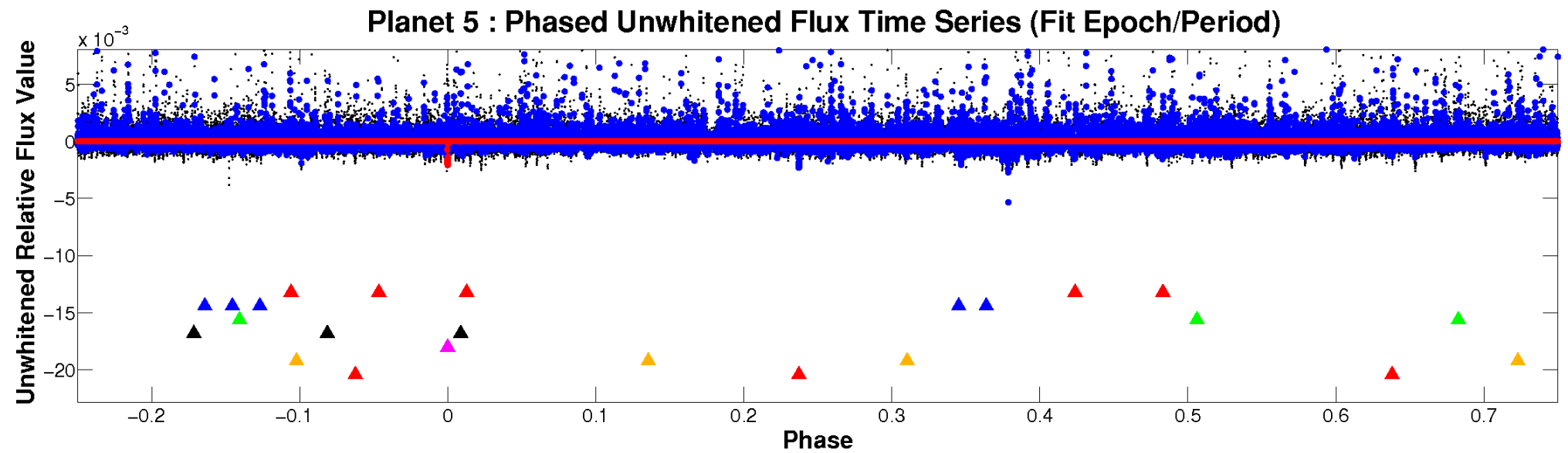


ALT Odd/Even

TCE 005268904-05

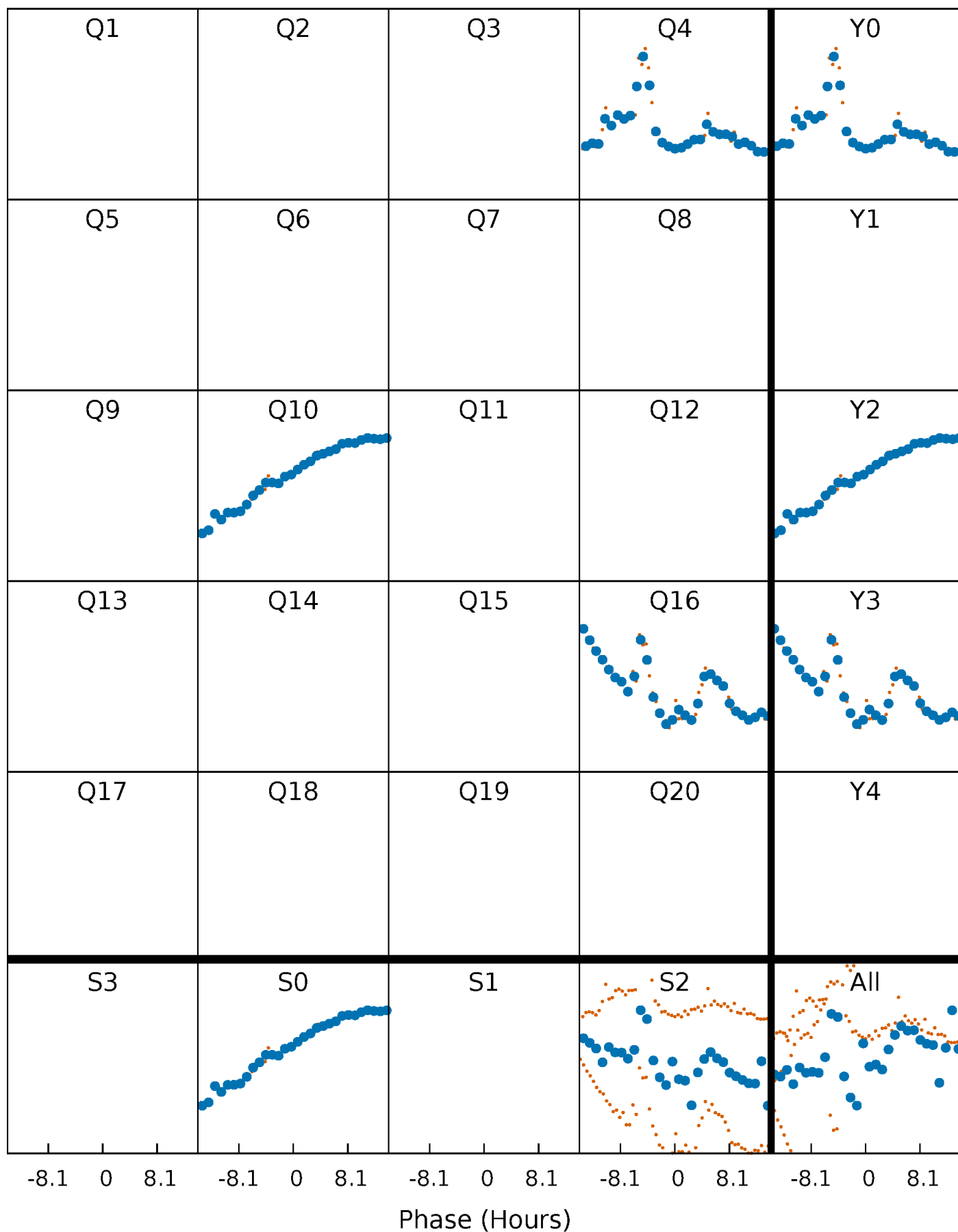


Non-Whitened Vs. Whitened Light Curve



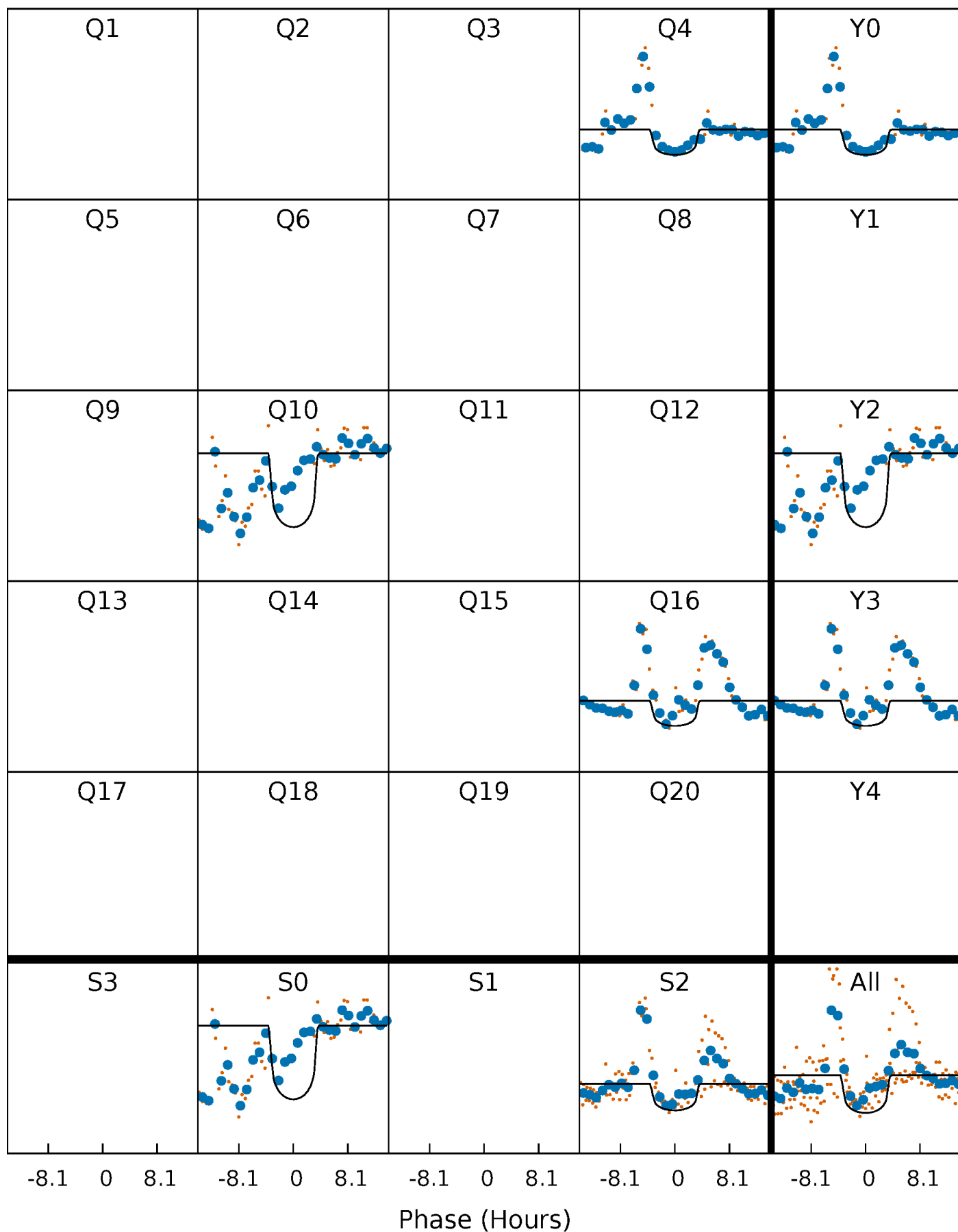
PDC Quarter-Phased Transit Curves

TCE 005268904-05 $P=582.825132$ Days $T_0=378.080513$ (BKJD)



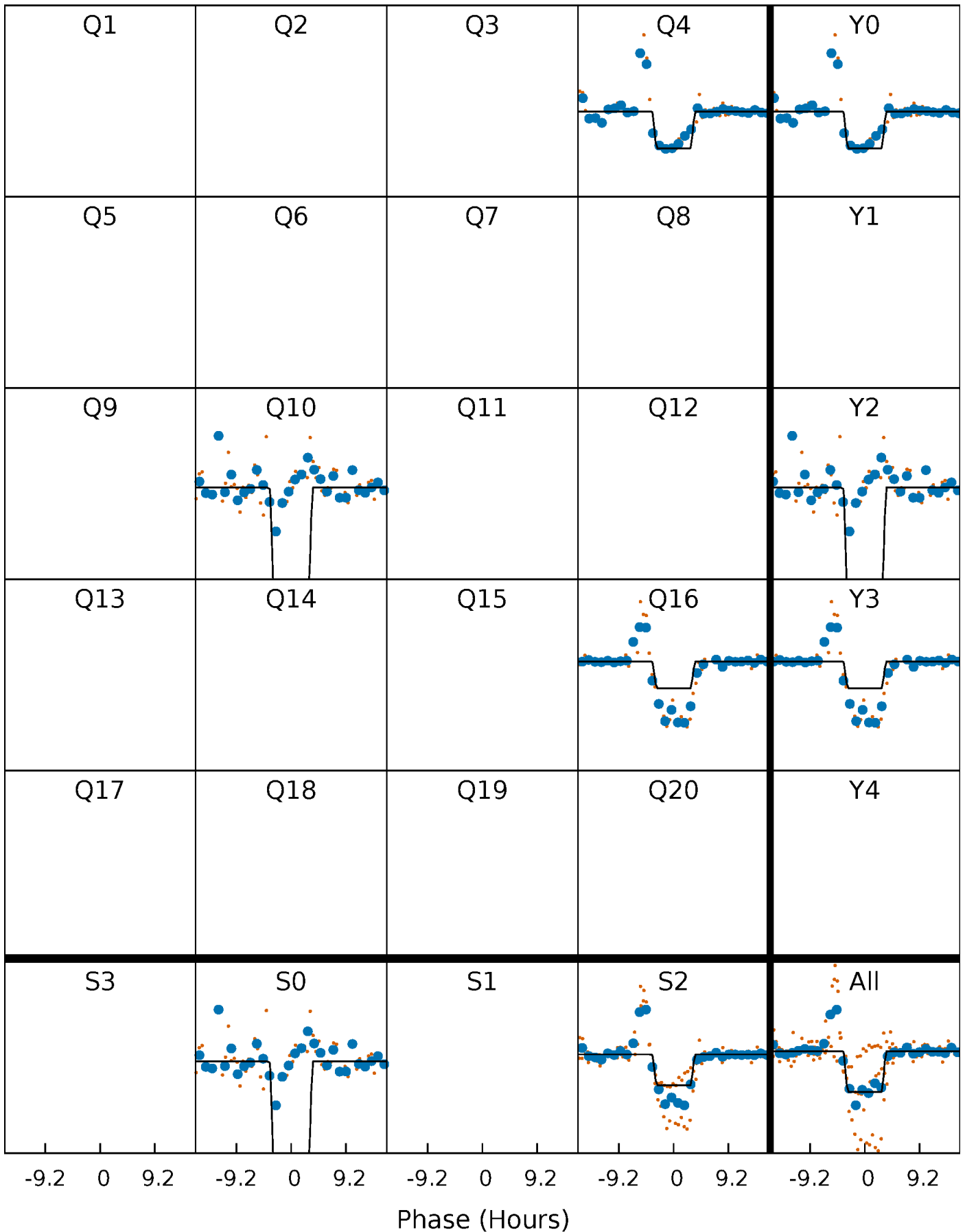
DV Quarter-Phased Transit Curves

TCE 005268904-05 $P=582.825132$ Days $T_0=378.080513$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

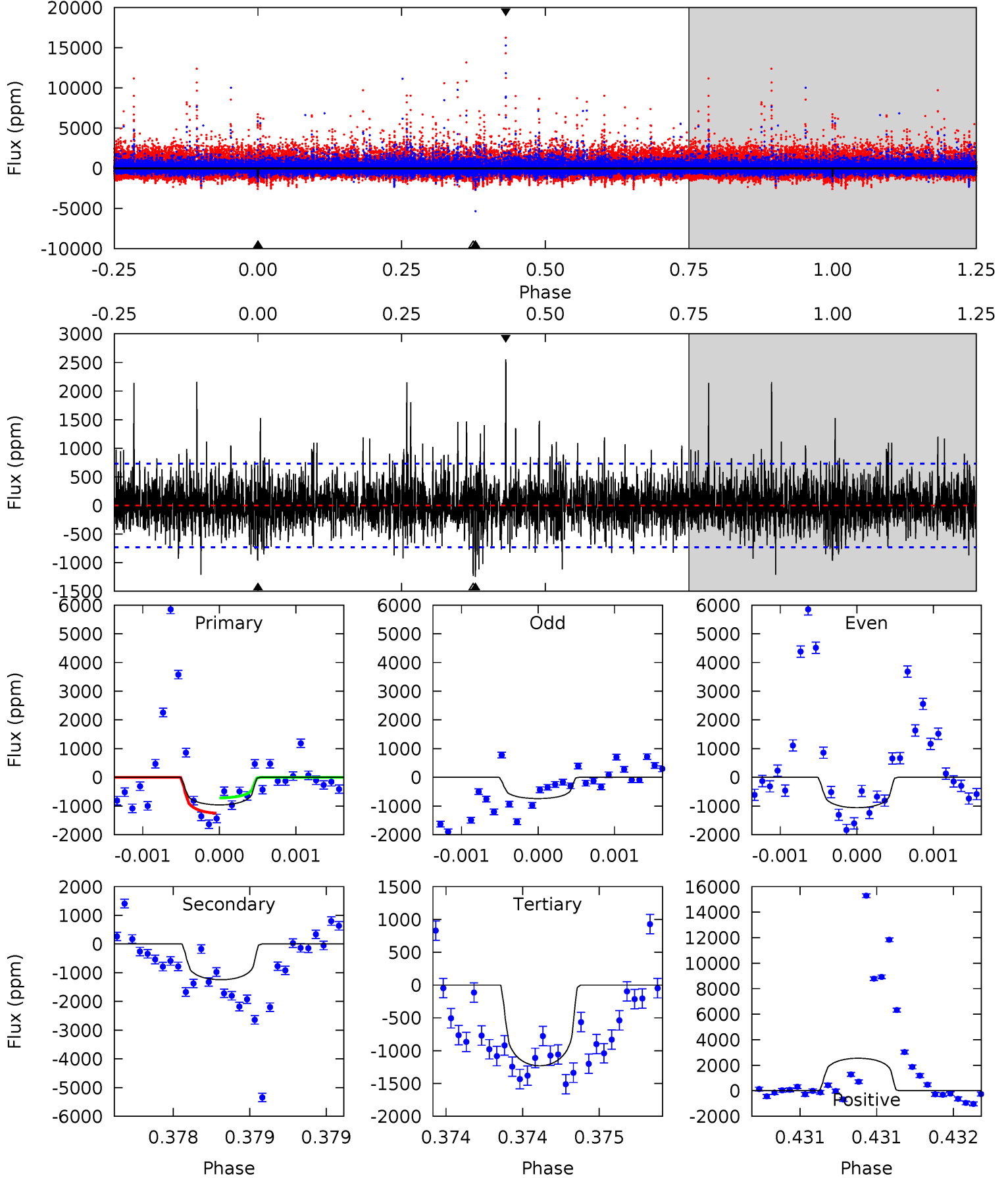
TCE 005268904-05 $P=582.819621$ Days $T_0=378.105380$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-05, P = 582.825132 Days, E = 378.080513 Days

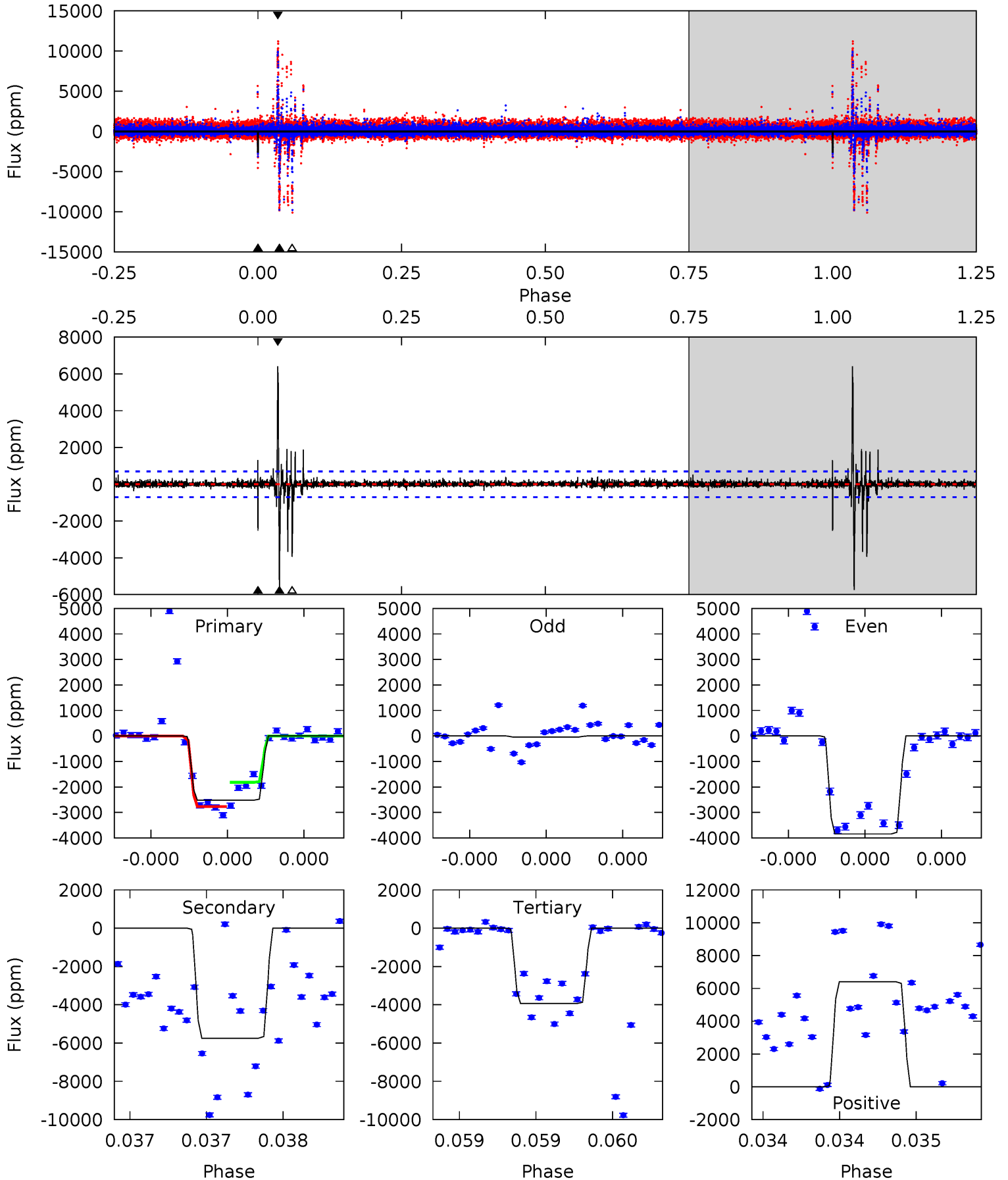
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.32	9.46	9.36	19.4	5.56	3.47	2.48	-2.04	-12.1	0.10	-9.95	0.60	1.29	0.67	2.03



Alt Model-Shift Uniqueness Test

005268904-05, P = 582.819621 Days, E = 378.105380 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.1	45.9	31.4	51.1	5.58	3.49	2.12	-11.3	-31.0	14.5	-5.23	15.3	1.14	0.53	3.47



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1244 ± 131	$1.53^{+0.67}_{-0.74}$	123^{+3}_{-4}	3200^{+765}_{-307}	$253836^{+706456}_{-128027}$
Alt.	-5750 ± 125	$1.85^{+0.68}_{-0.70}$	123^{+4}_{-4}	3838^{+734}_{-378}	$811260^{+1300827}_{-364248}$

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

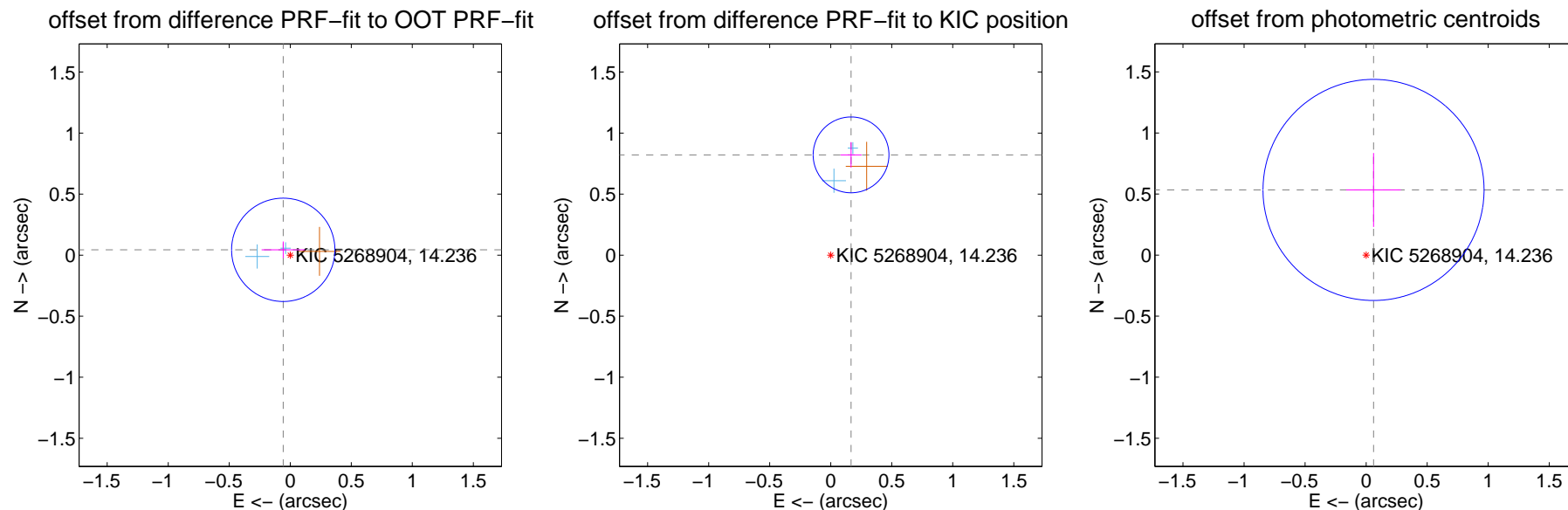
DV Centroid Data

Supplemental centroid analysis for 005268904-05. Kepler magnitude: 14.24. Transit SNR 8.80

There are 2 quarters with good PRF difference image offsets

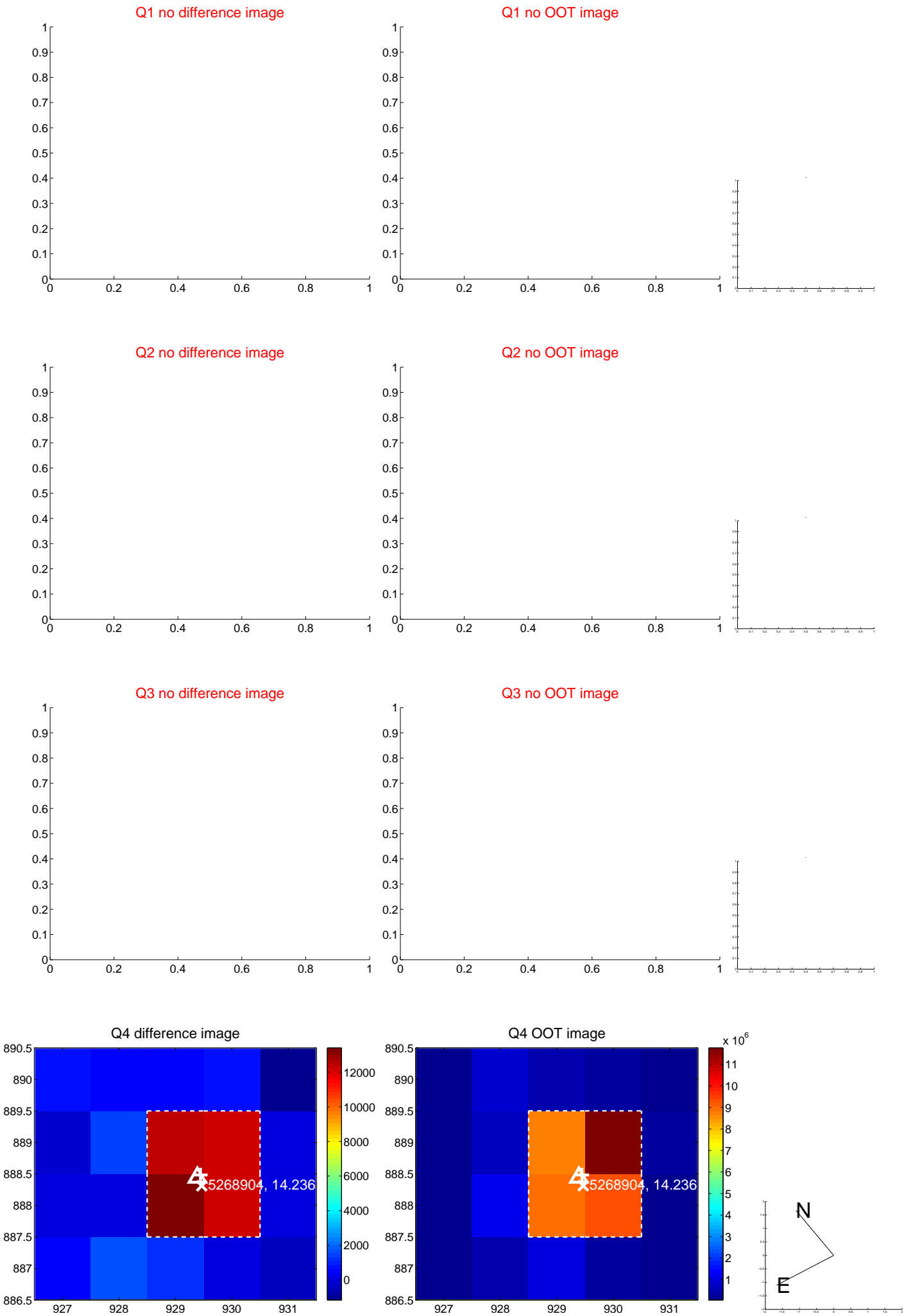
The direct PRF centroid is offset from the target star catalog position by about 0.85 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.072 ± 0.141	0.51	0.058 ± 0.177	0.044 ± 0.068
PRF-fit source offset from KIC position	0.838 ± 0.104	8.10	-0.167 ± 0.086	0.822 ± 0.104
photometric centroid source offset	0.54 ± 0.30	1.78	-0.06 ± 0.22	0.53 ± 0.30



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.

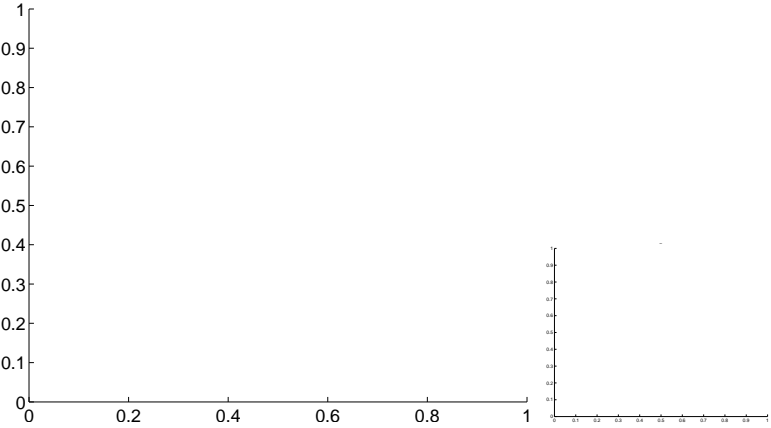


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

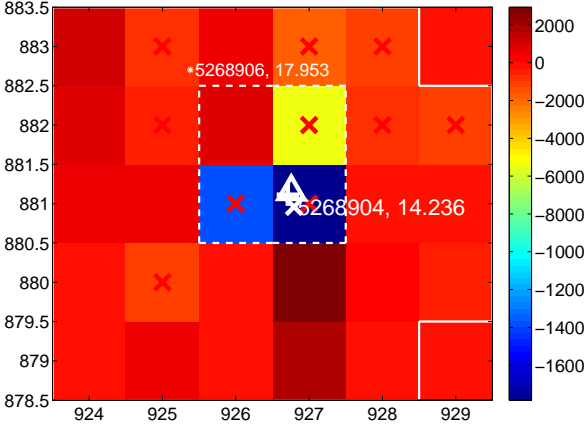
Q9 no difference image



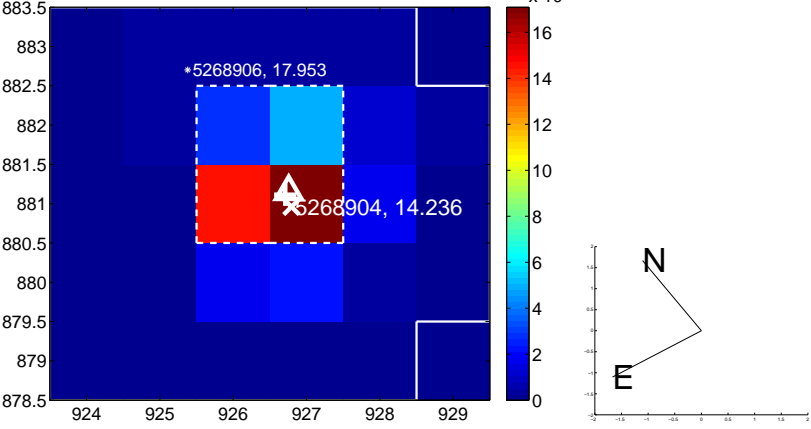
Q9 no OOT image



Q10 difference image. Poor Quality



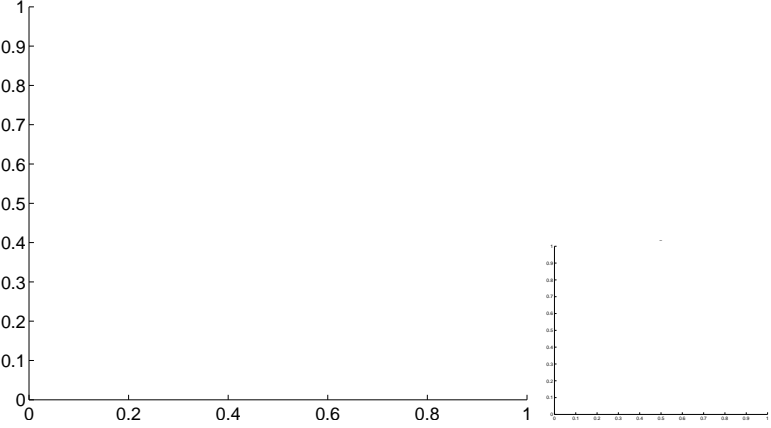
Q10 OOT image



Q11 no difference image



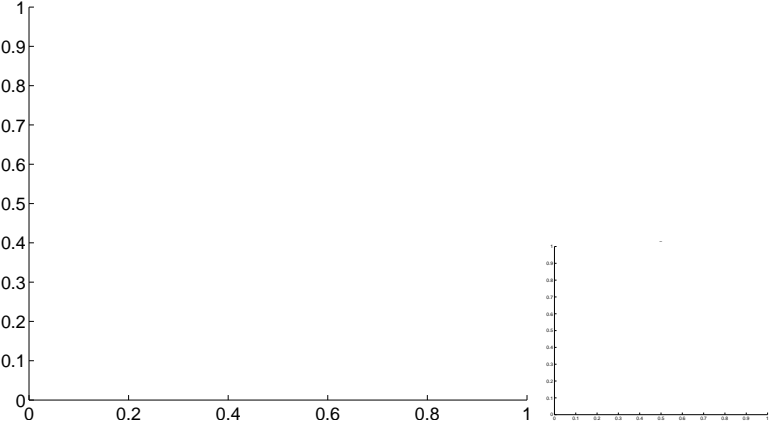
Q11 no OOT image



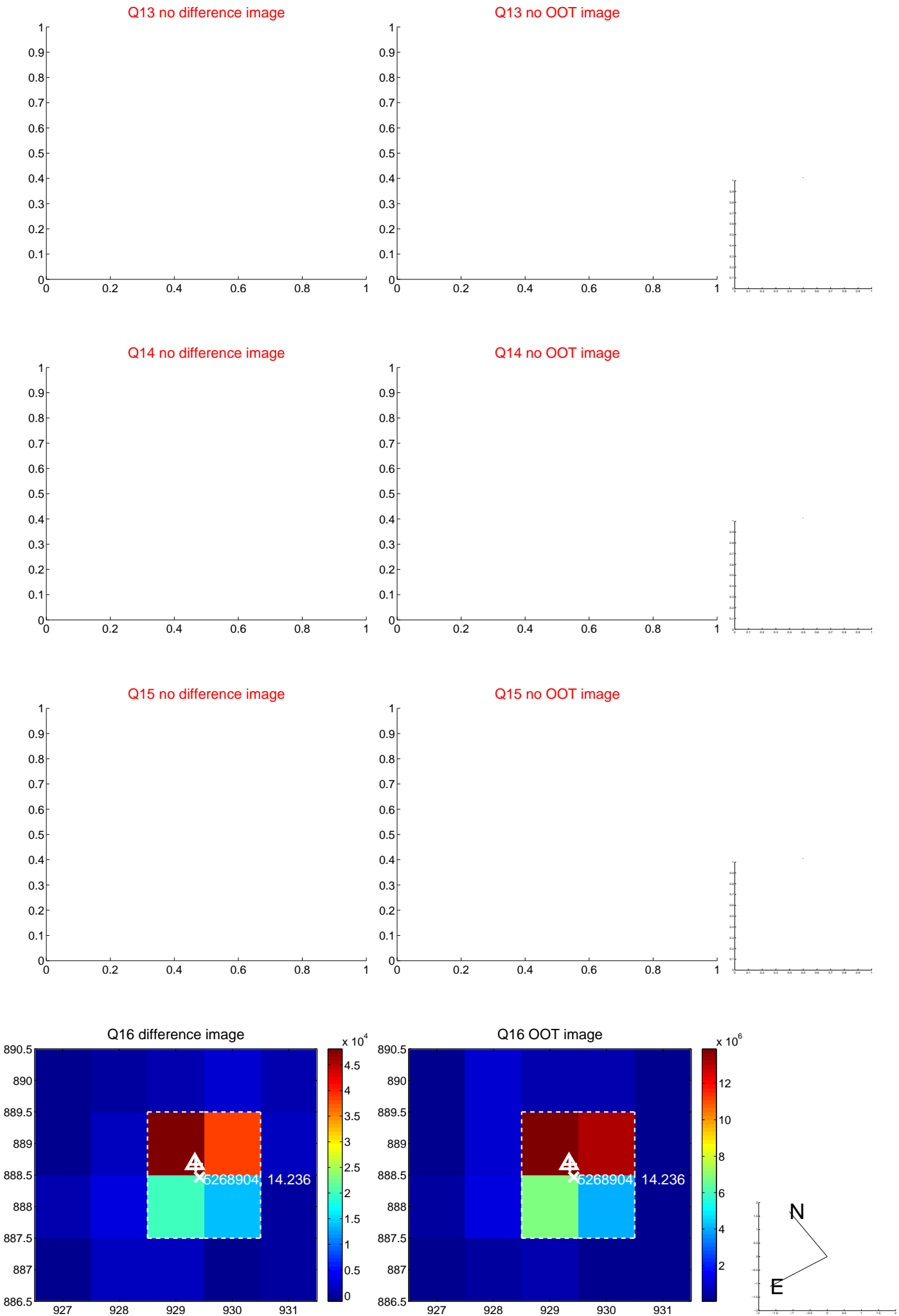
Q12 no difference image



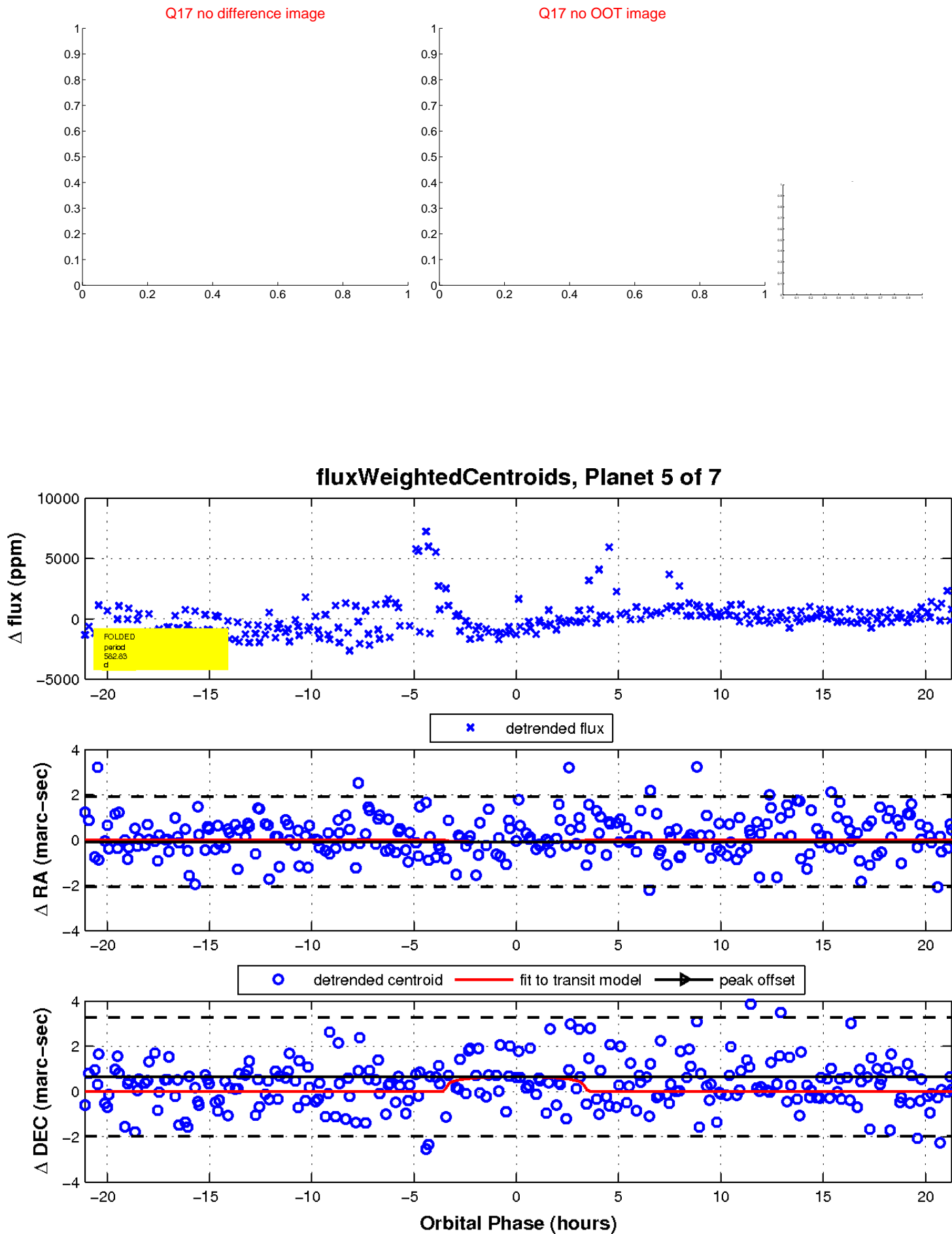
Q12 no OOT image



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

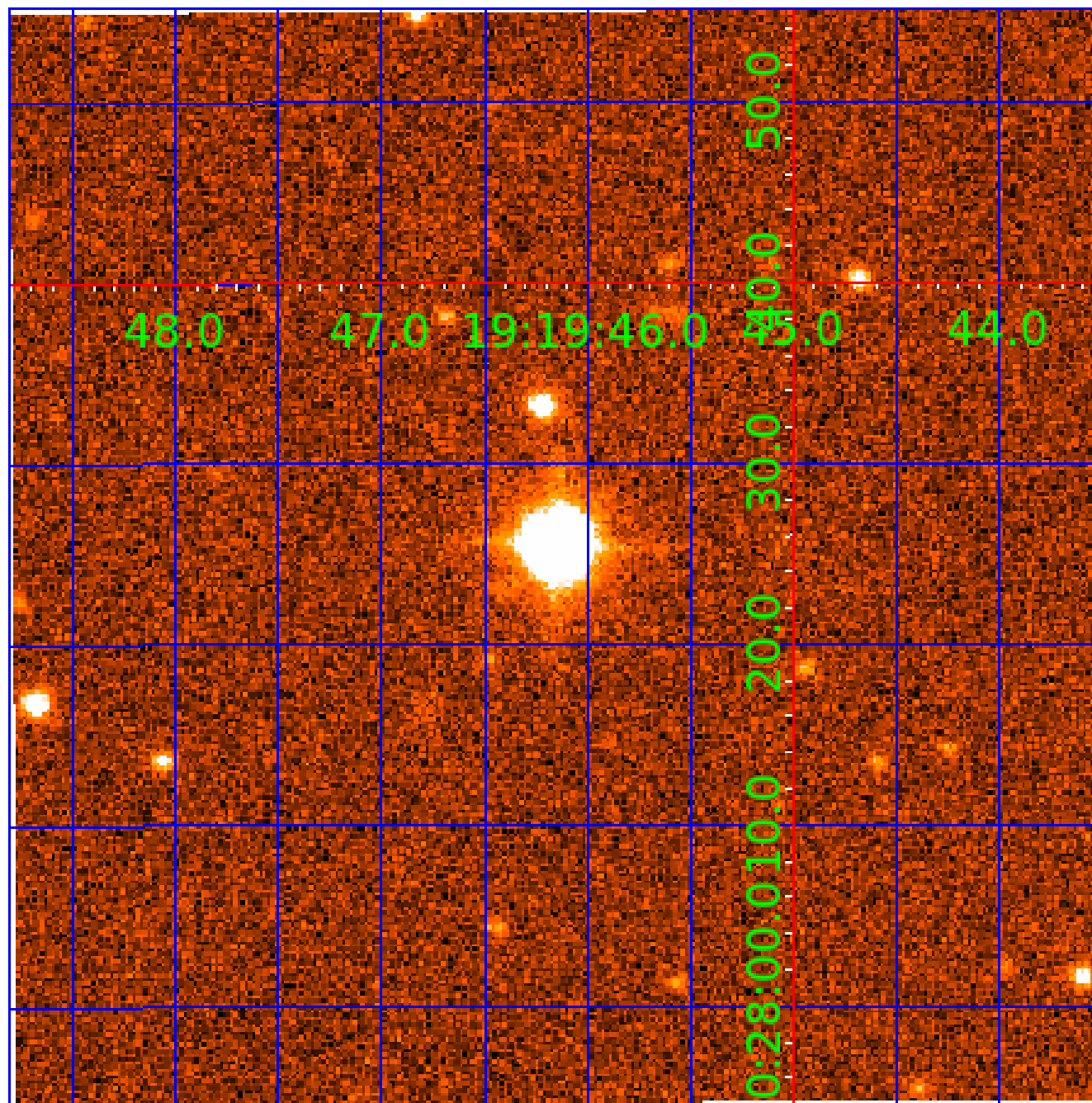


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

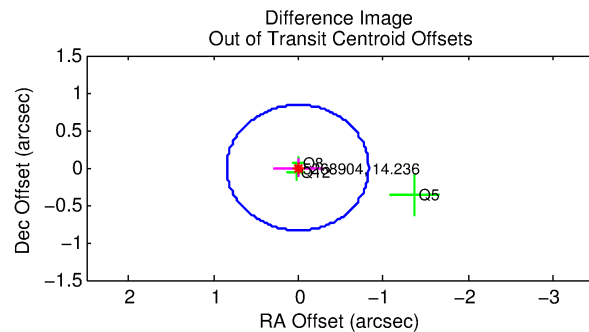
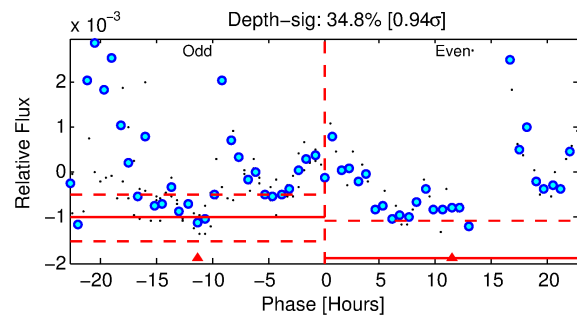
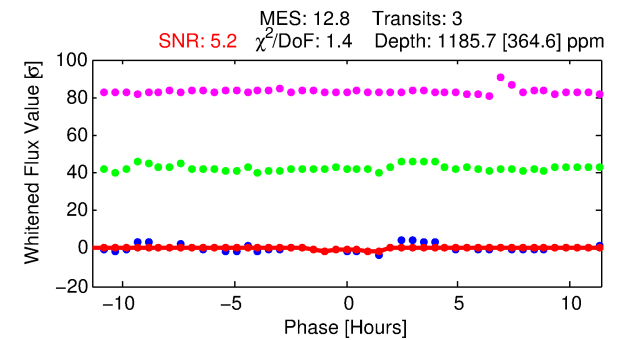
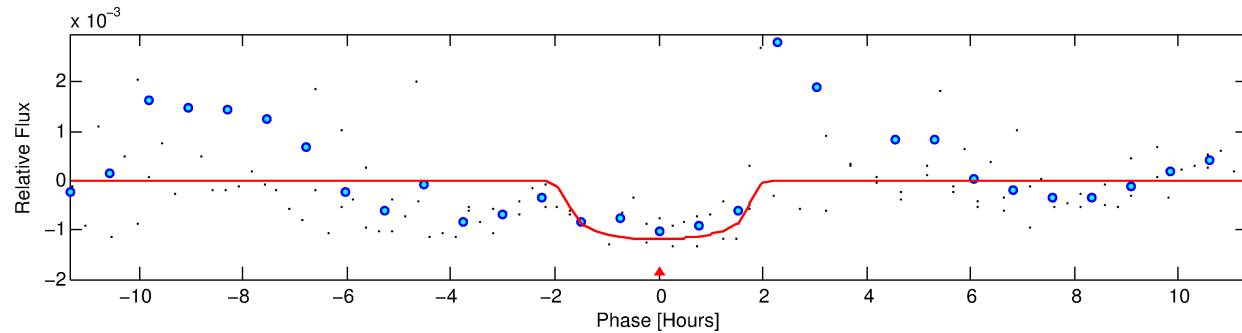
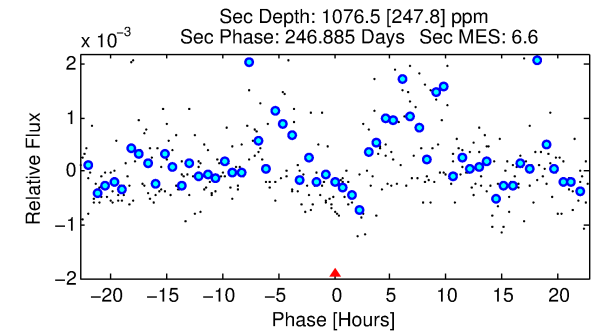
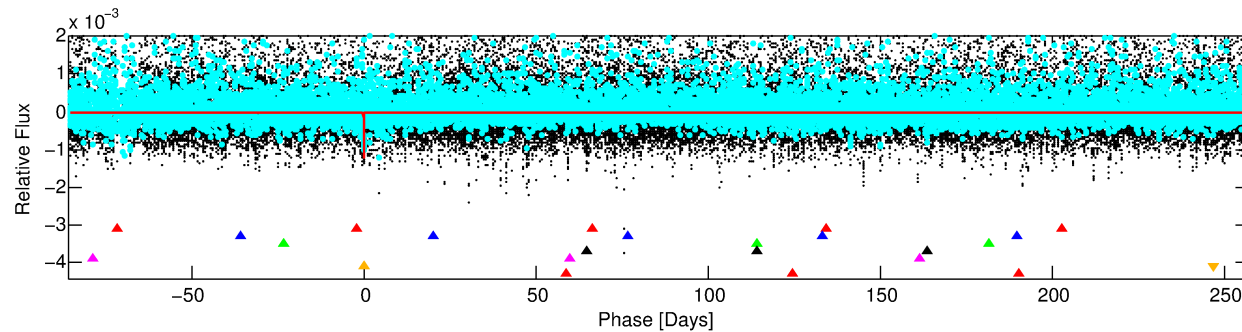
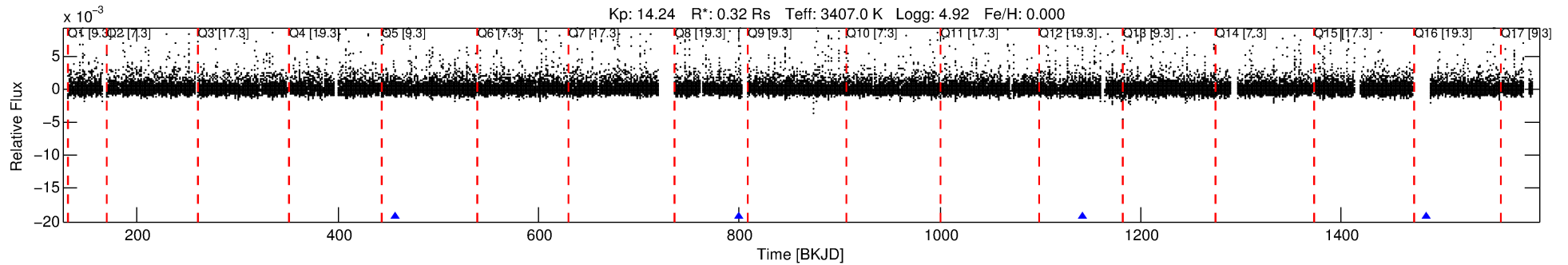
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-06

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 6 of 7 Period: 342.374 d



DV Fit Results:

Period = 342.37431 [0.00755] d
Epoch = 457.0682 [0.0102] BKJD
Rp/R* = 0.0328 [0.0776]
a/R* = 577.70 [5706.96]
b = 0.61 [10.34]
Seff = 0.03 [0.00]
Teq = 106 [4] K
Rp = 1.16 [2.75] Re
a = 0.6557 [0.0727] AU
Ag = 189320.61 [897566.95] [0.21 σ]
Teffp = 3407 [4037] K [0.82 σ]

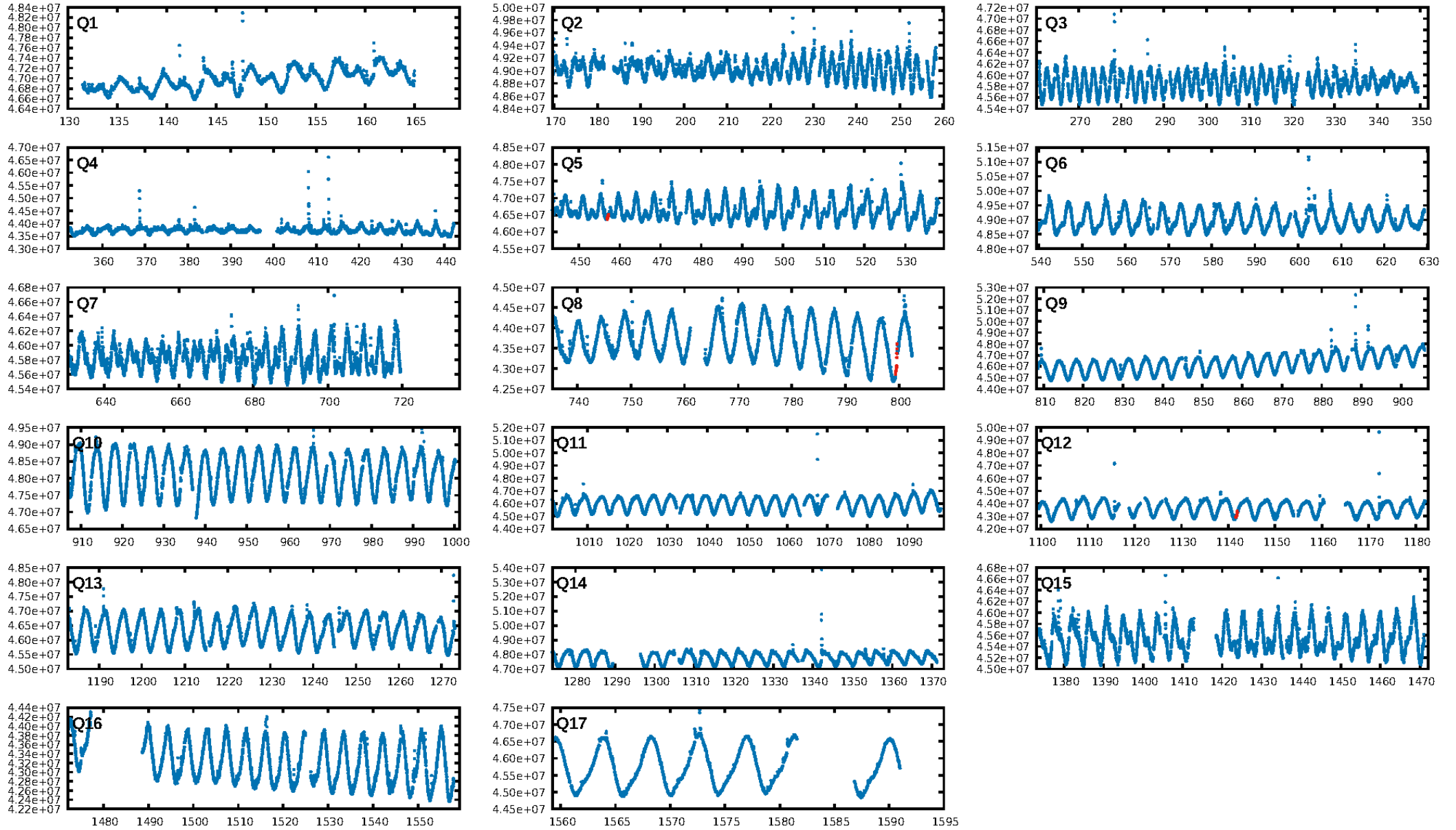
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [215.62 σ]
LongPeriod-sig: 100.0% [141.54 σ]
ModelChiSquare2-sig: 18.5%
ModelChiSquareGof-sig: 86.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.366
Centroid-sig: 77.8%
Centroid-so: 1.069 arcsec [1.69 σ]
OotOffset-rm: 0.005 arcsec [0.02 σ]
OotOffset-st: 0/0/2/1 [3]
KicOffset-rm: 0.770 arcsec [6.26 σ]
KicOffset-st: 0/0/2/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

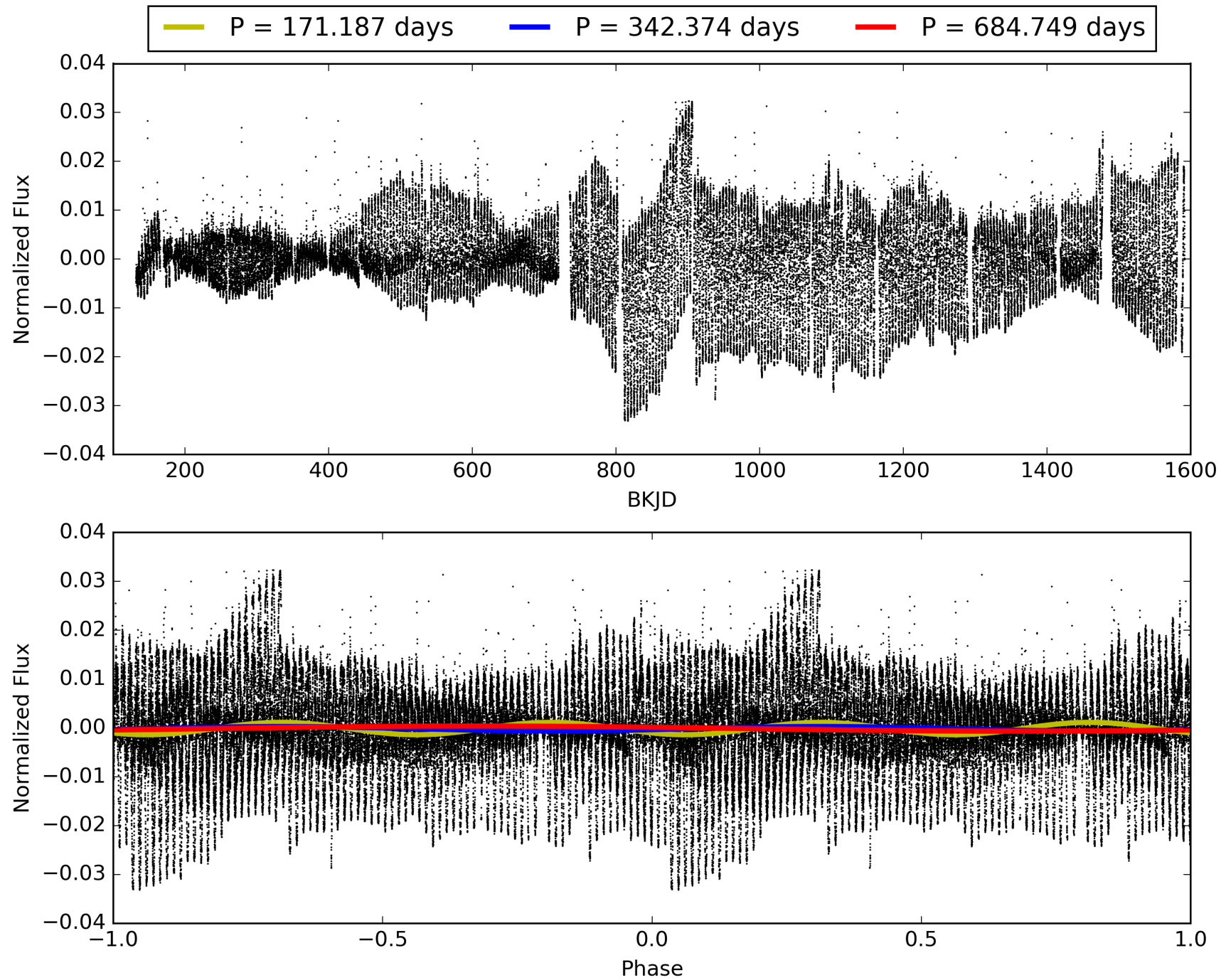
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 13:01:16 Z

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

TCE 005268904-06, PDC Light Curves

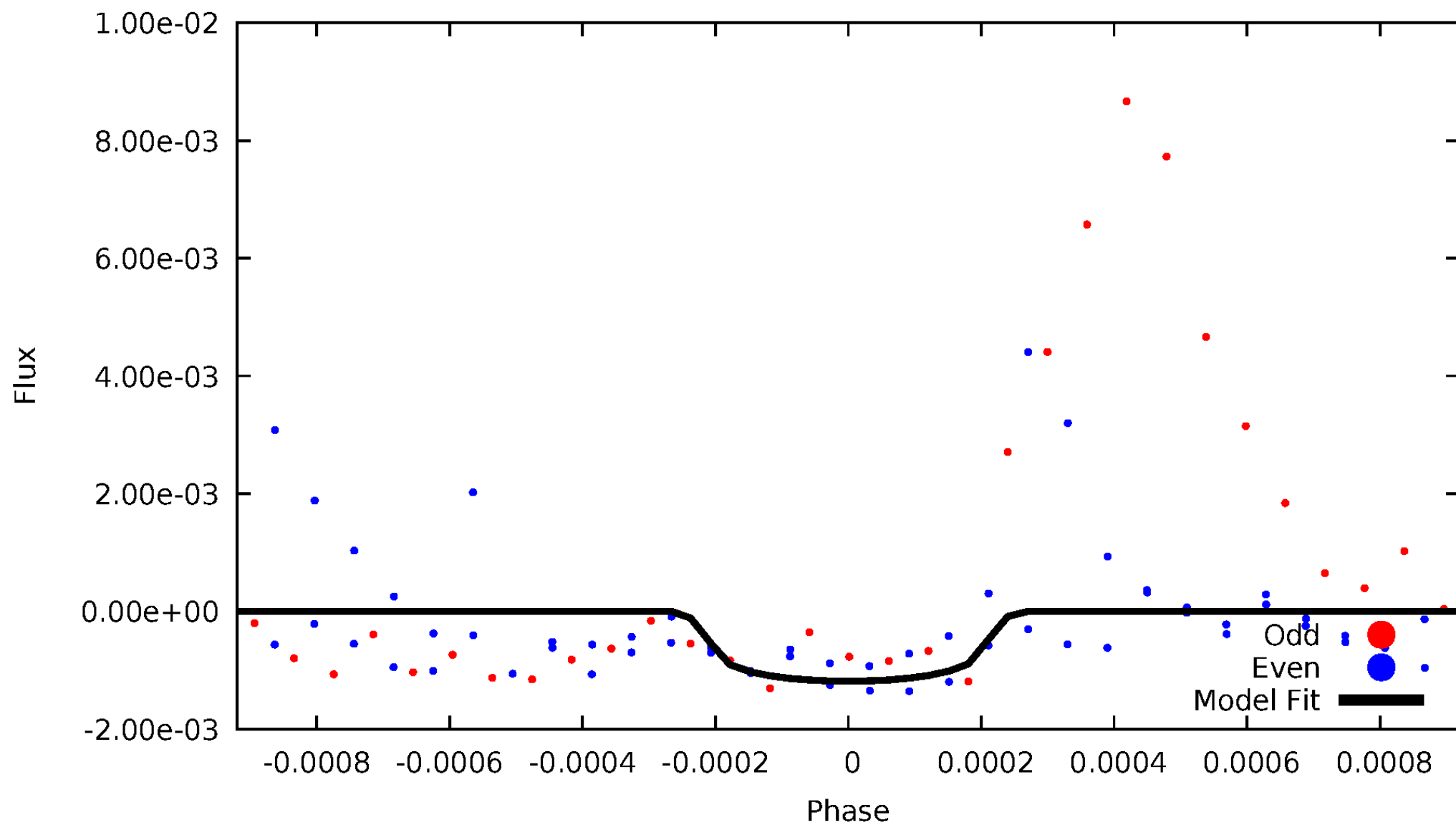


TCE 005268904-06



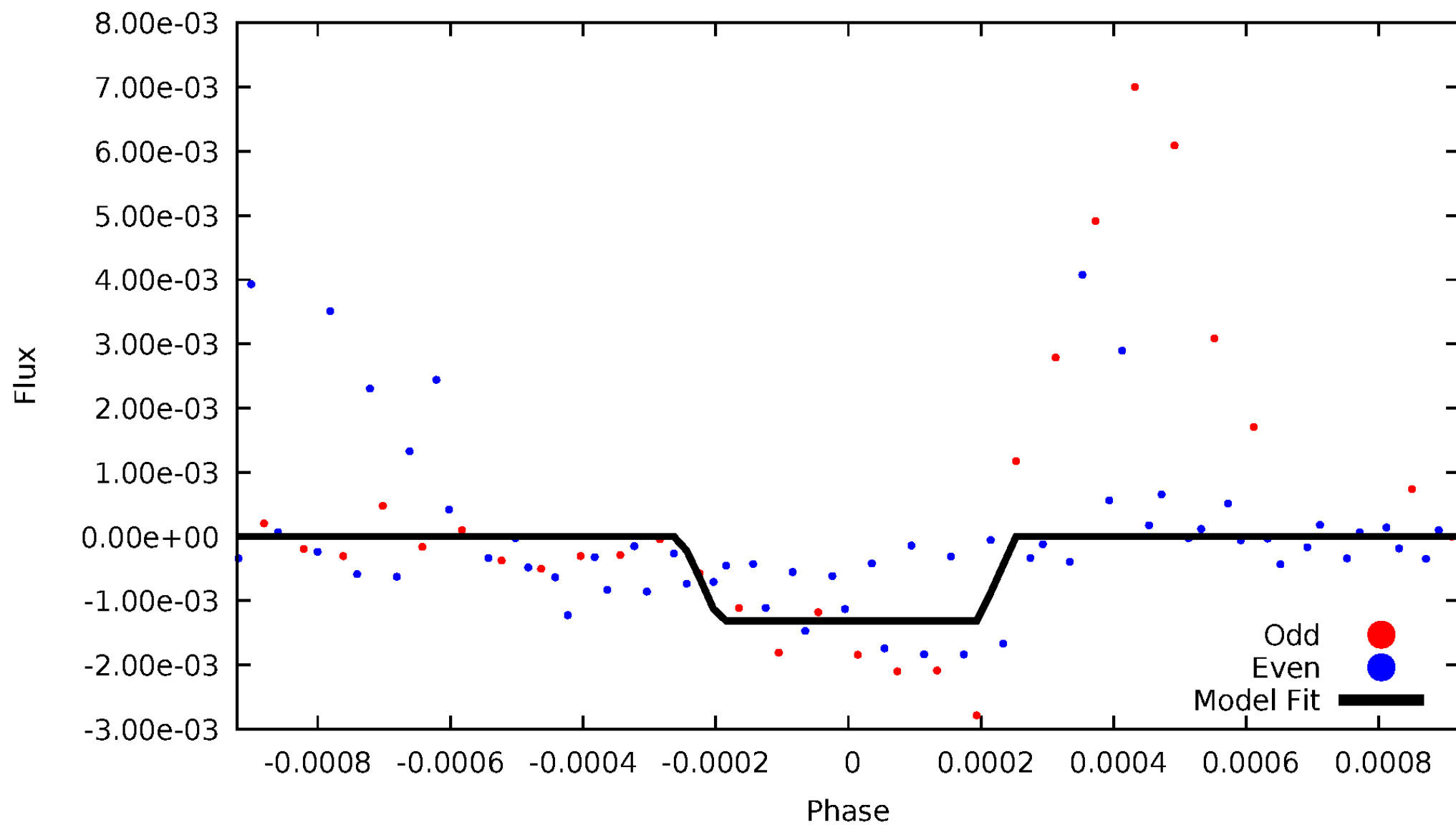
DV Odd/Even

TCE 005268904-06



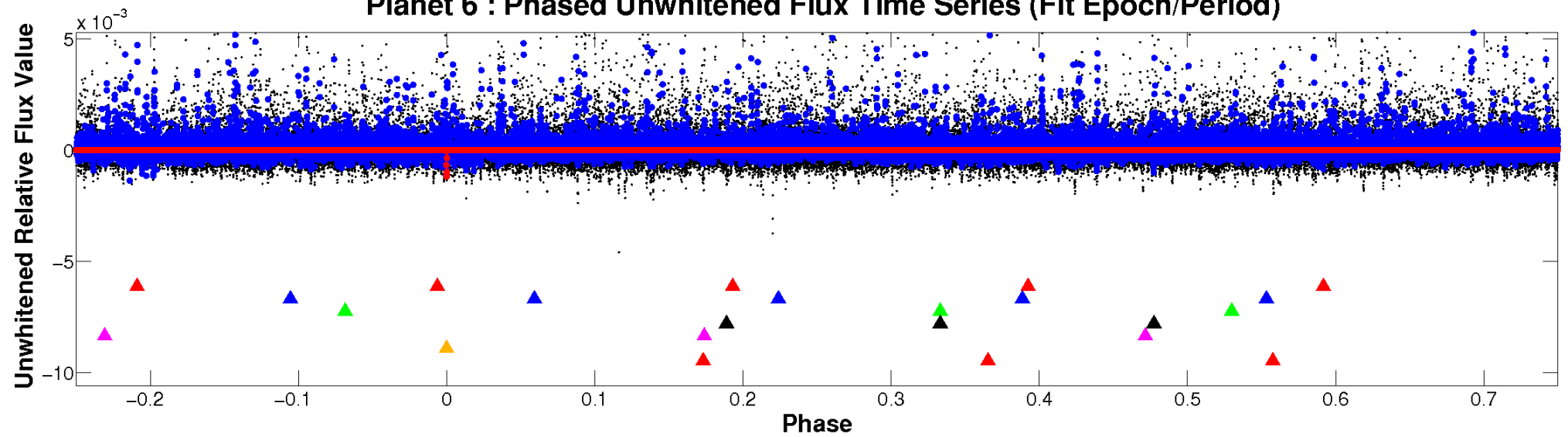
ALT Odd/Even

TCE 005268904-06

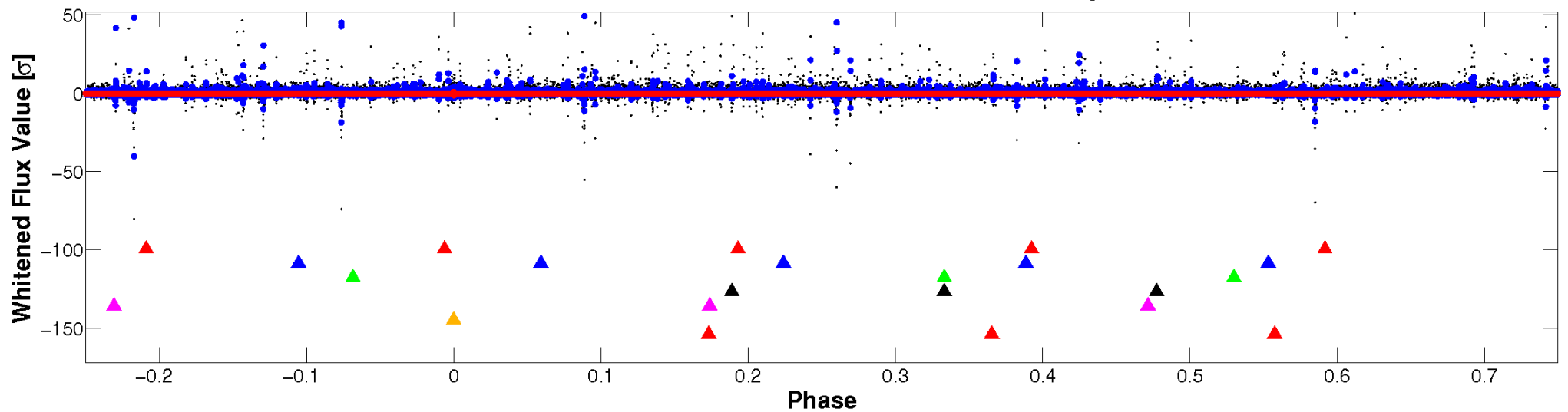


Non-Whitened Vs. Whitened Light Curve

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

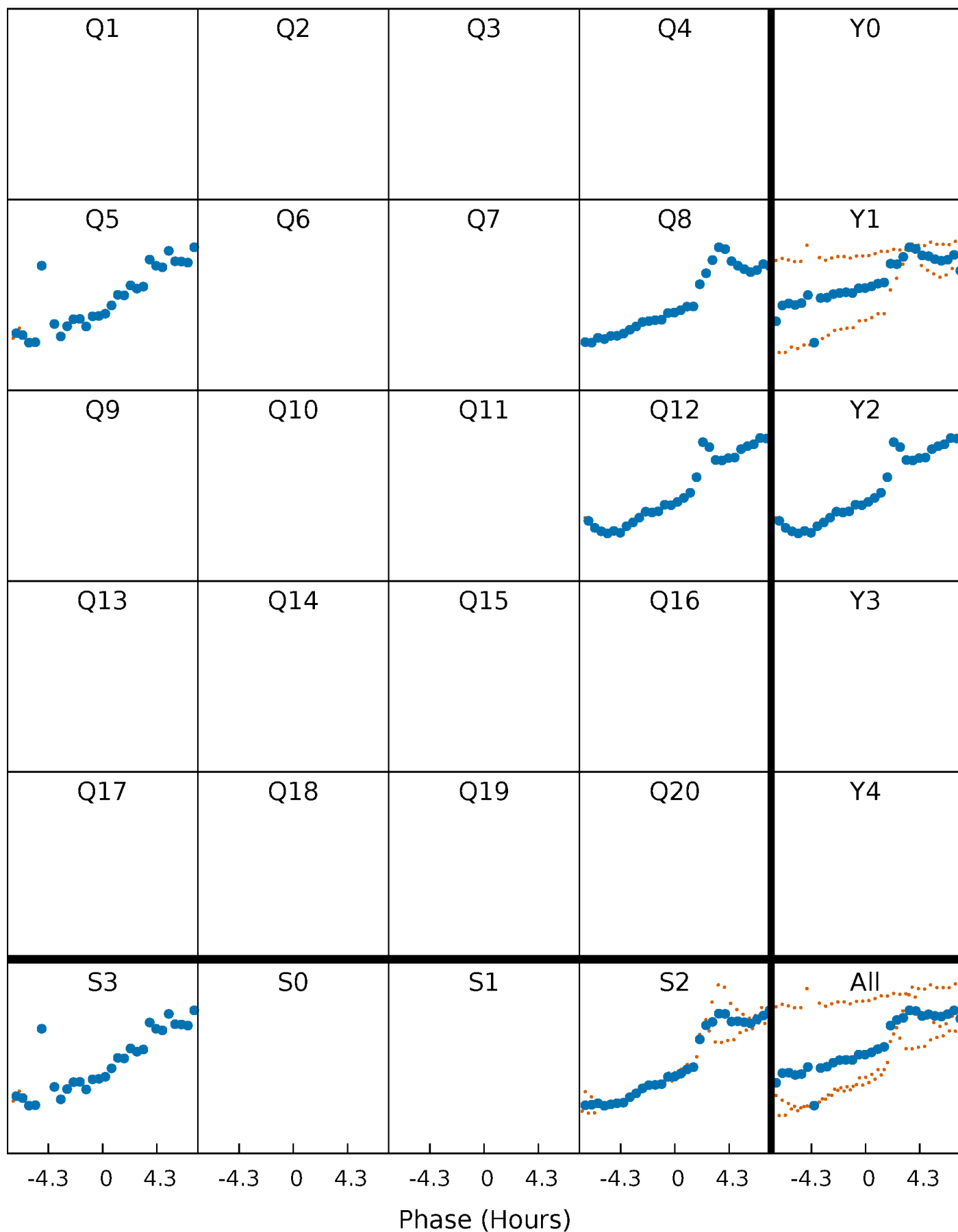


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



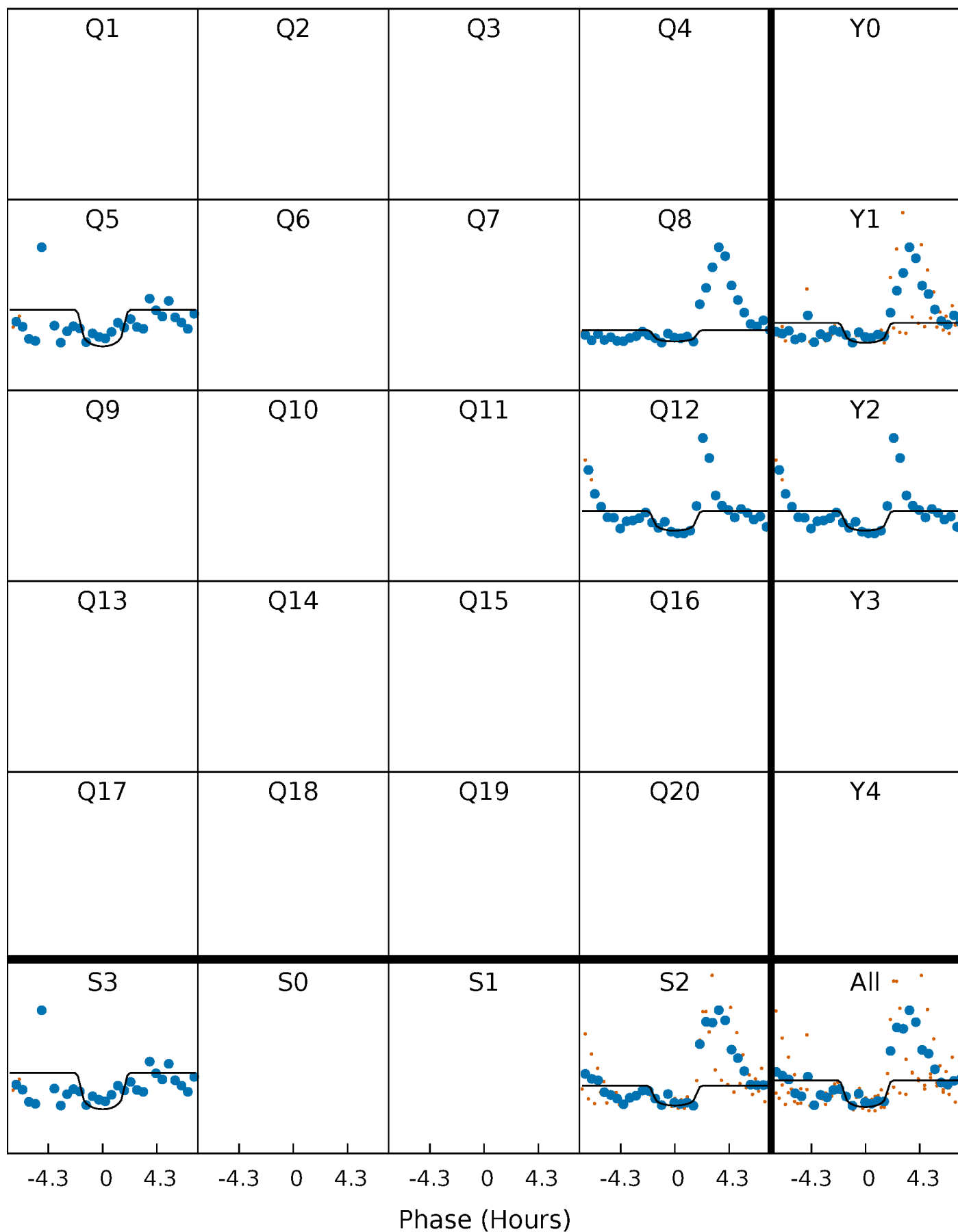
PDC Quarter-Phased Transit Curves

TCE 005268904-06 $P=342.374312$ Days $T_0=457.068234$ (BKJD)



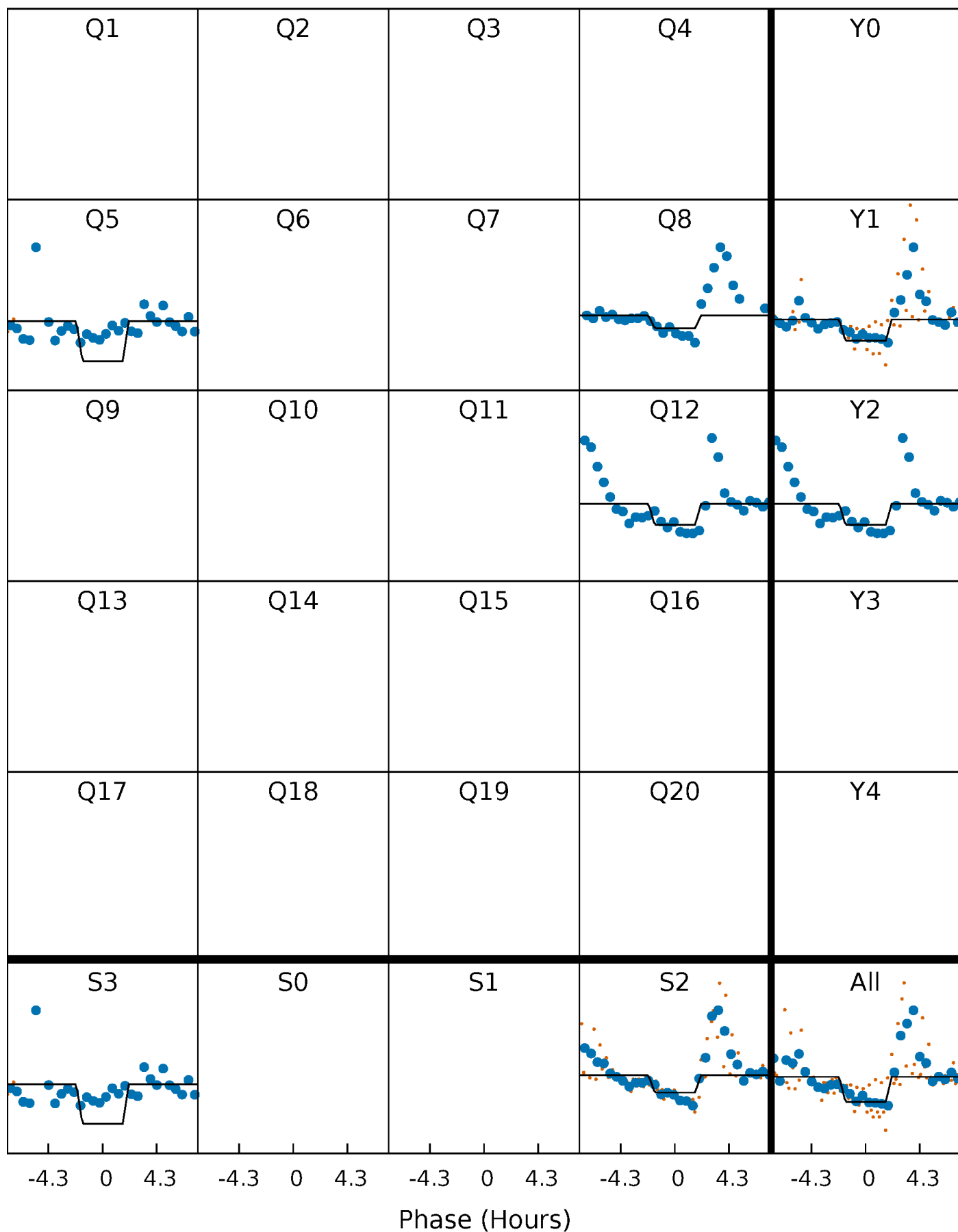
DV Quarter-Phased Transit Curves

TCE 005268904-06 $P=342.374312$ Days $T_0=457.068234$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

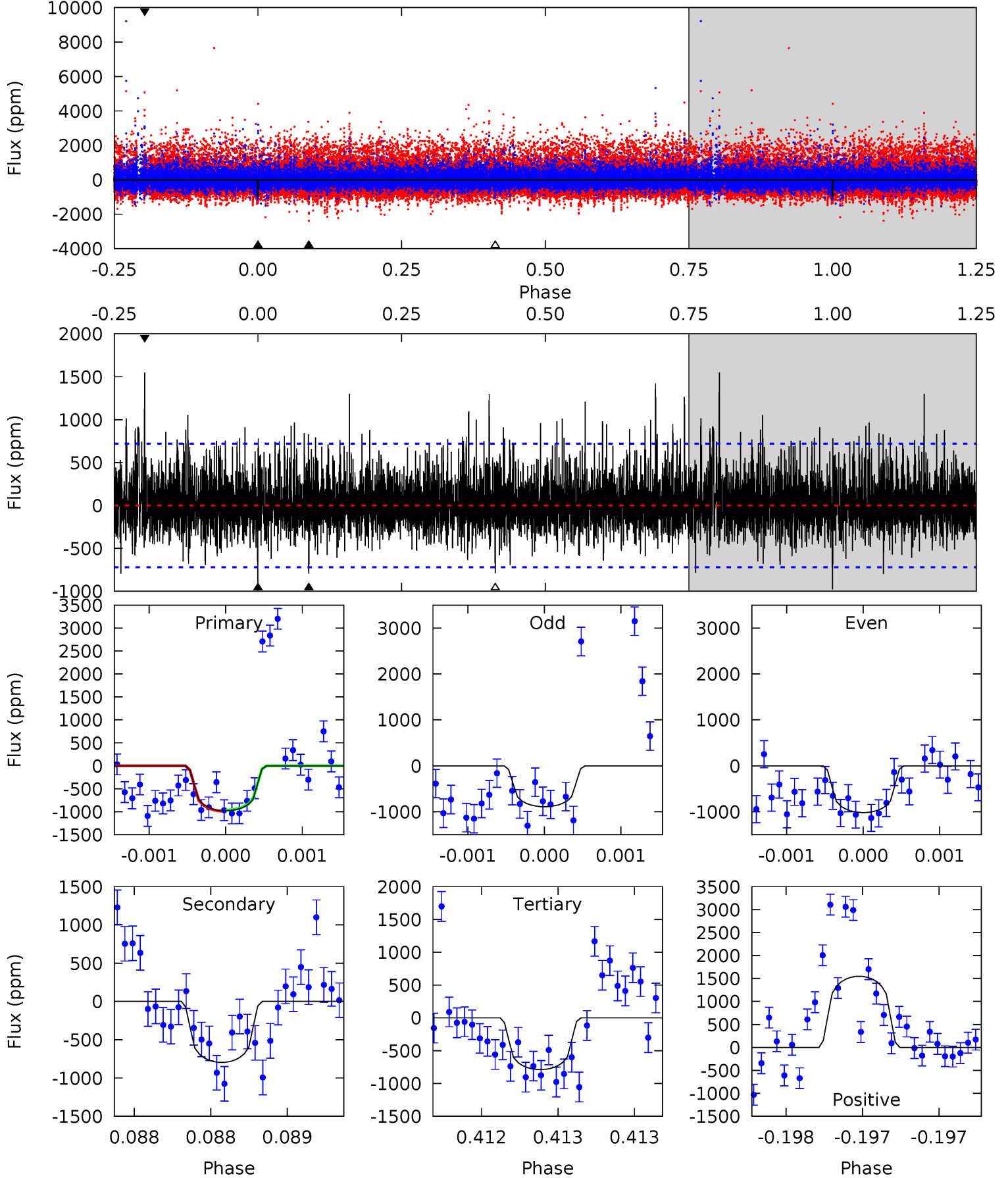
TCE 005268904-06 $P=342.350675$ Days $T_0=457.087404$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-06, P = 342.374312 Days, E = 114.693922 Days

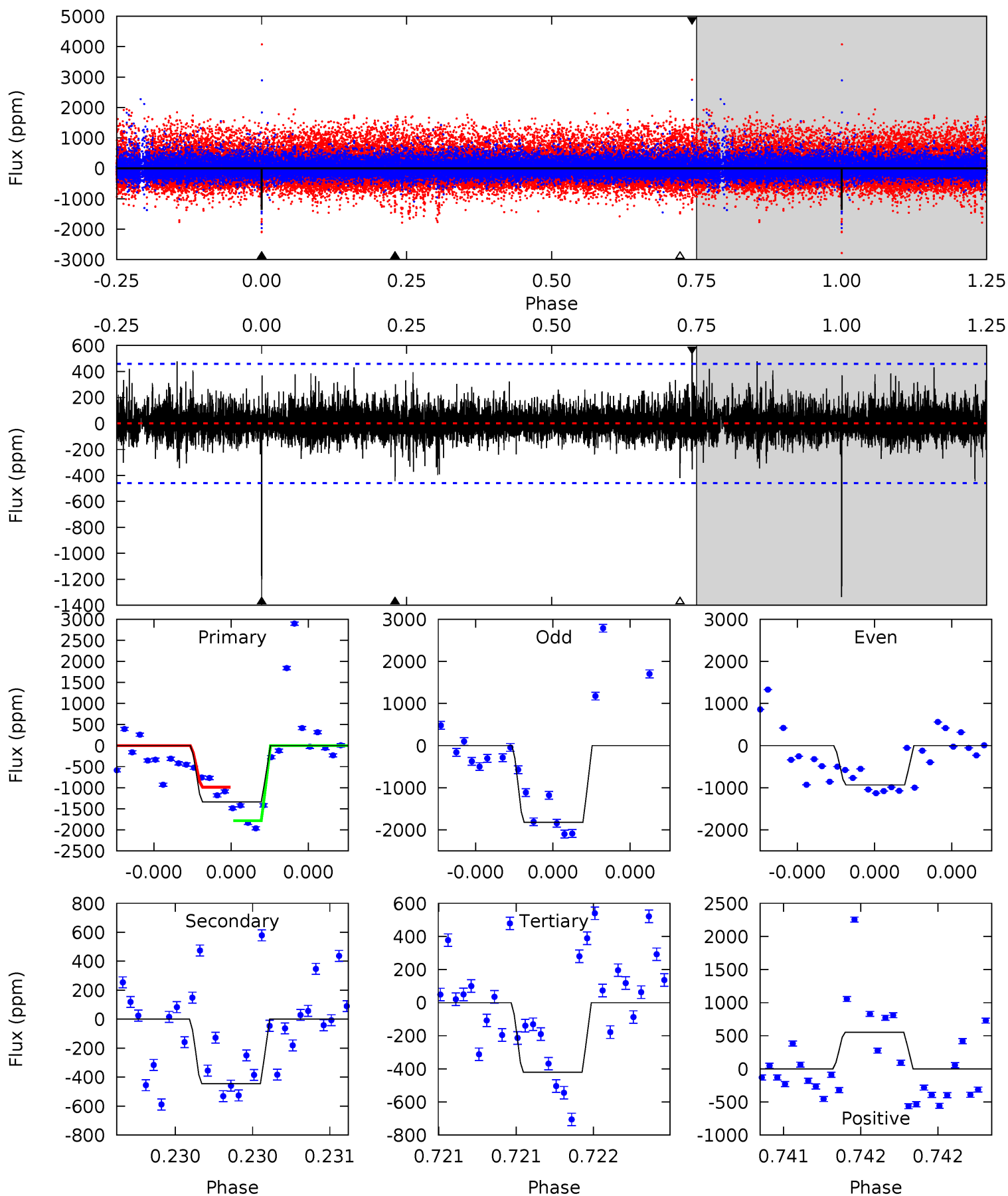
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.58	6.18	6.11	12.0	5.57	3.48	1.89	1.47	-4.43	0.06	-5.83	0.40	1.10	0.61	0.10



Alt Model-Shift Uniqueness Test

005268904-06, P = 342.350675 Days, E = 114.736729 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.2	5.40	5.11	6.70	5.57	3.48	1.03	11.1	9.51	0.29	-1.30	3.96	0.86	0.29	4.85



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-797 ± 129	$2.32^{+2.29}_{-1.54}$	147^{+4}_{-5}	2665^{+1035}_{-405}	$34402^{+280602}_{-25388}$
Alt.	-444 ± 82	$2.44^{+2.36}_{-1.66}$	147^{+4}_{-4}	2448^{+898}_{-333}	$17035^{+156408}_{-12391}$

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 $A_{obs} \gg 1.0$

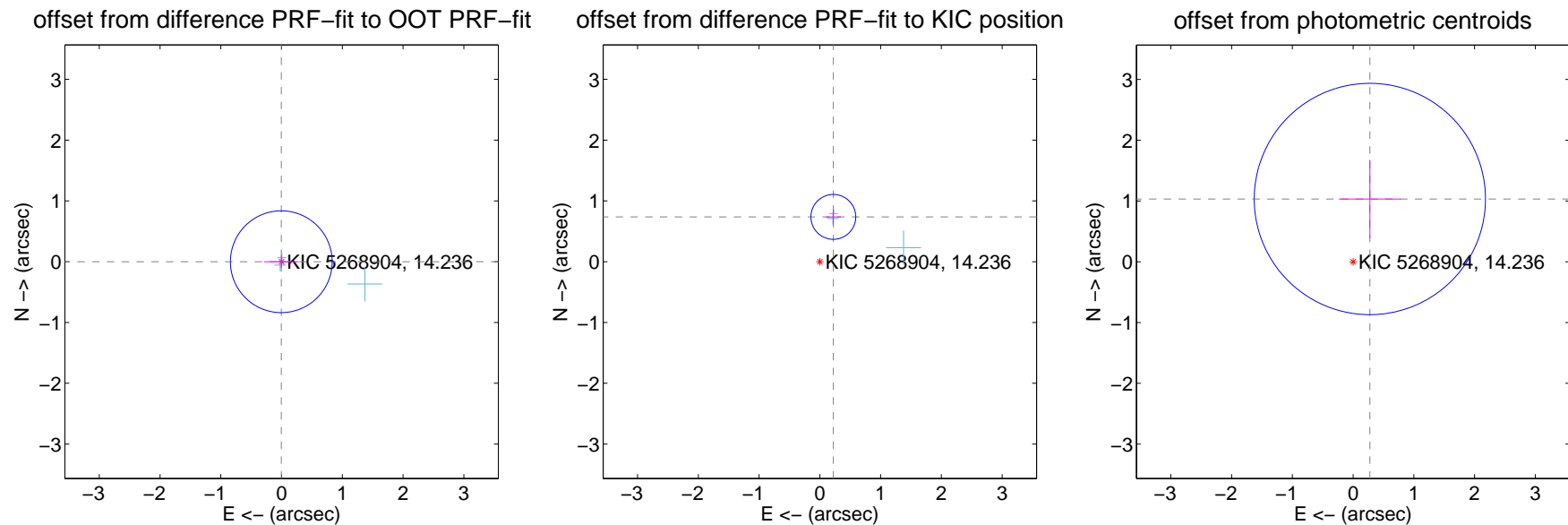
DV Centroid Data

Supplemental centroid analysis for 005268904-06. Kepler magnitude: 14.24. Transit SNR 5.21

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.005 ± 0.279	0.02	0.005 ± 0.285	-0.000 ± 0.102
PRF-fit source offset from KIC position	0.770 ± 0.123	6.26	-0.222 ± 0.123	0.737 ± 0.123
photometric centroid source offset	1.07 ± 0.63	1.69	-0.28 ± 0.51	1.03 ± 0.64

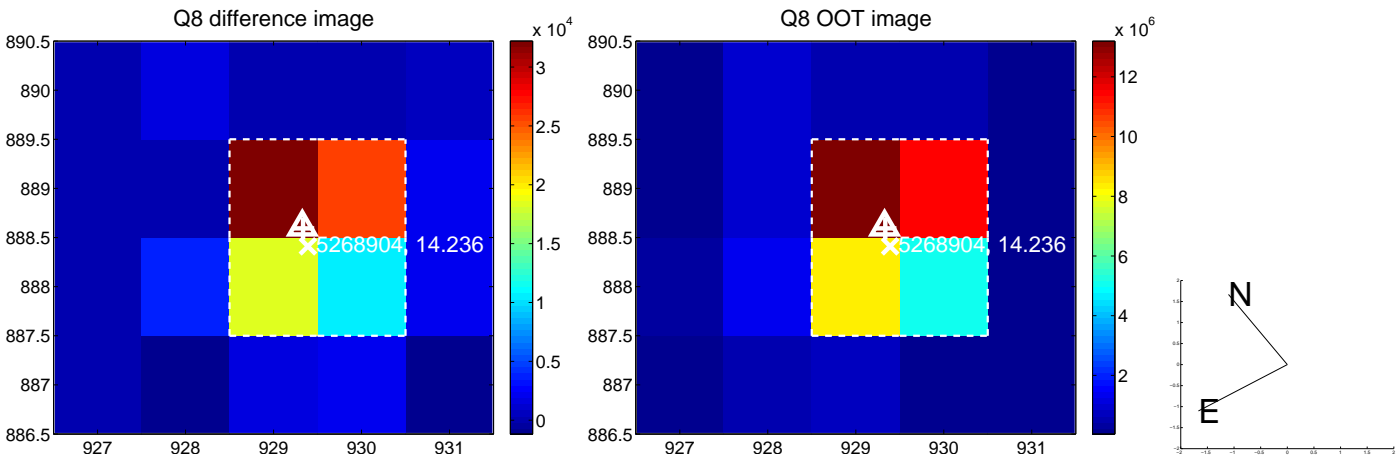
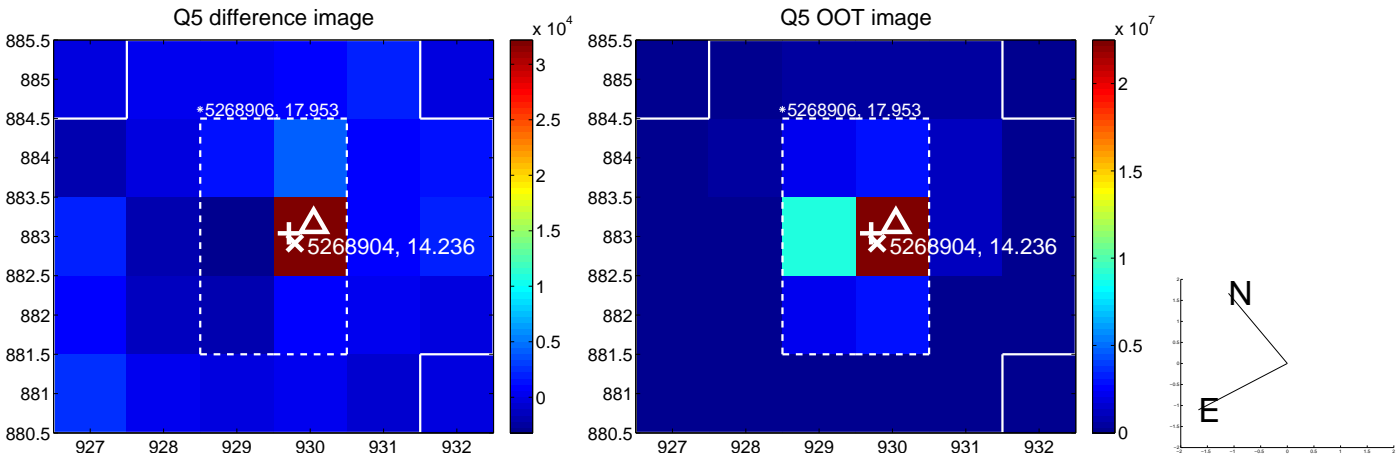


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

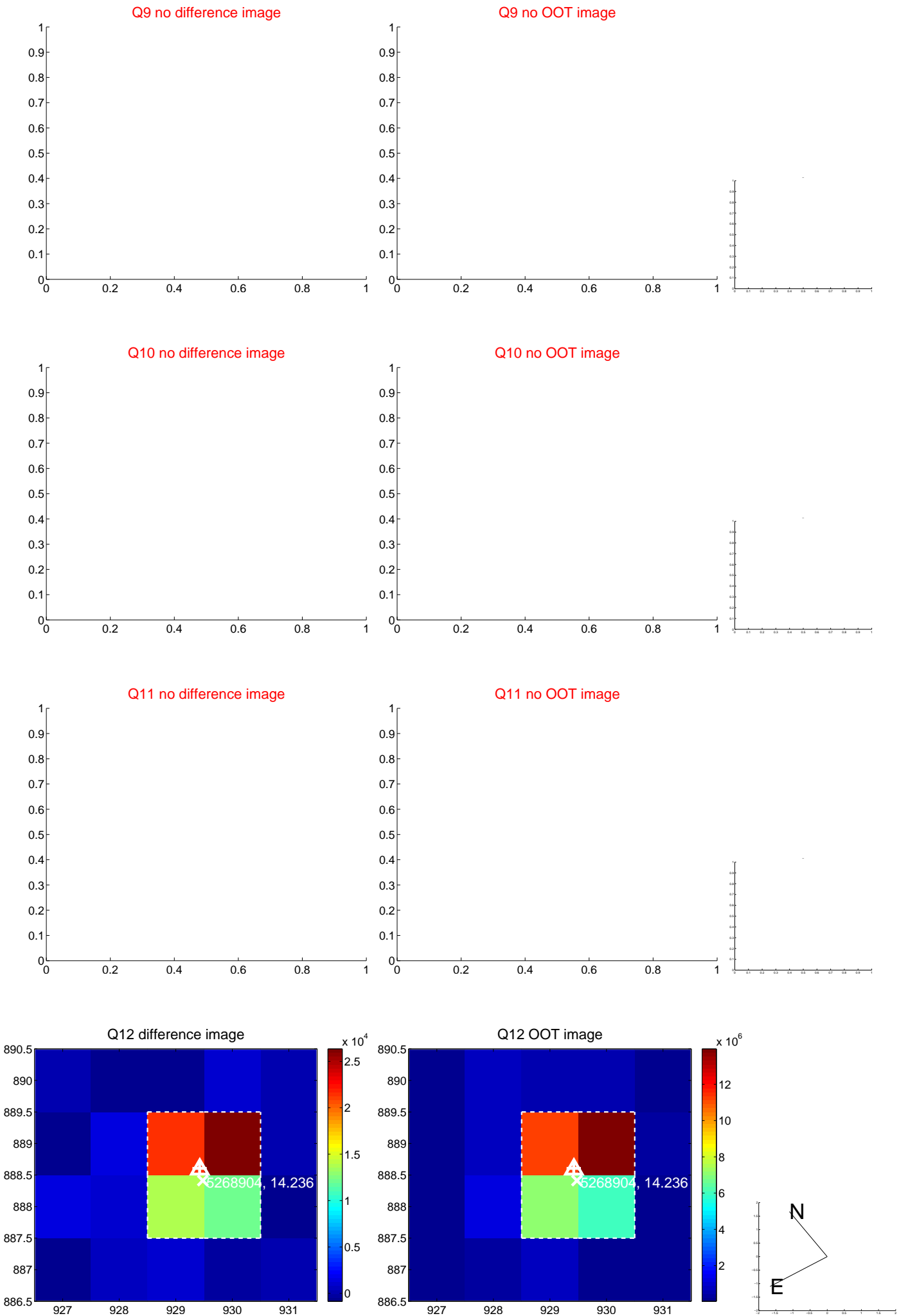
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



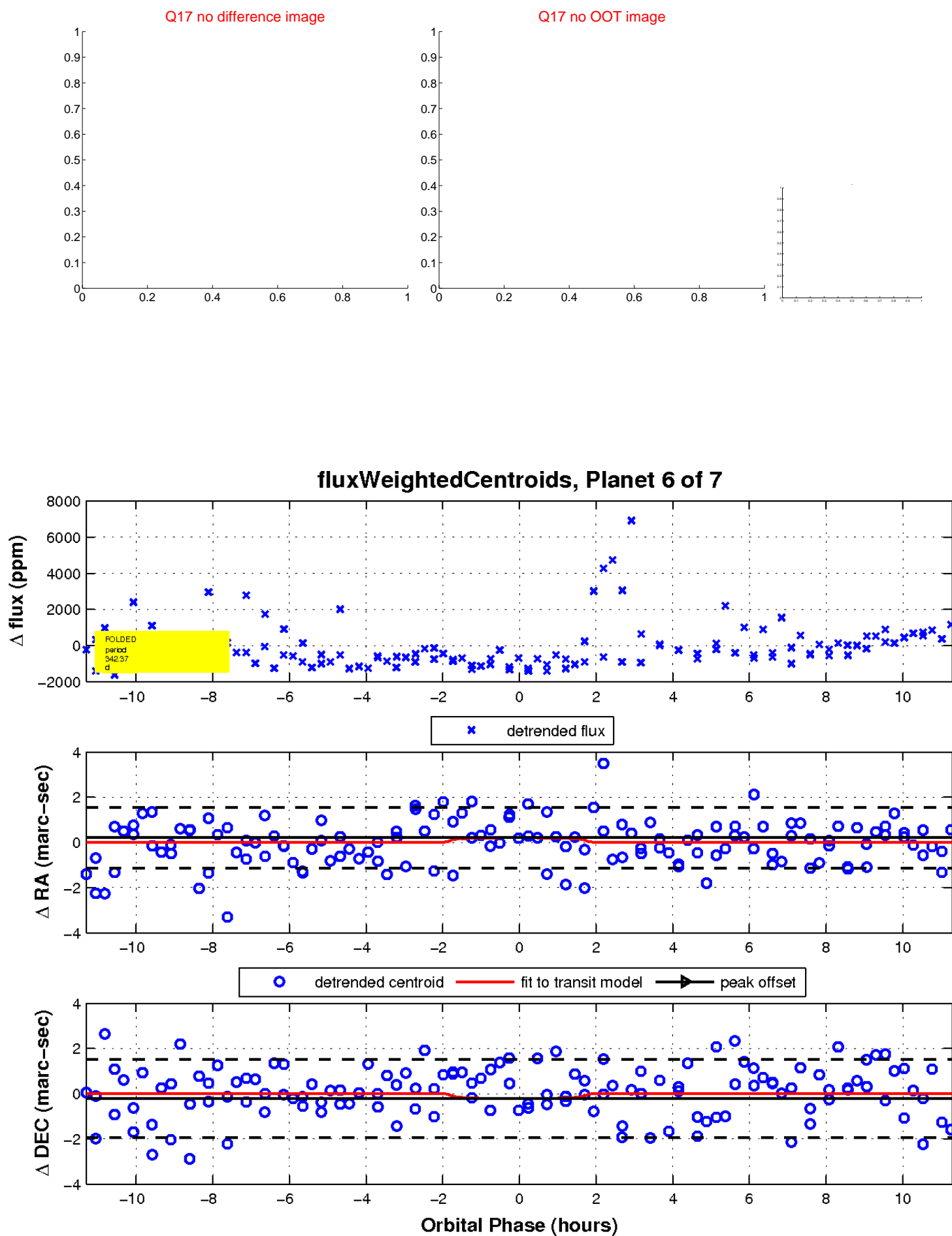
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

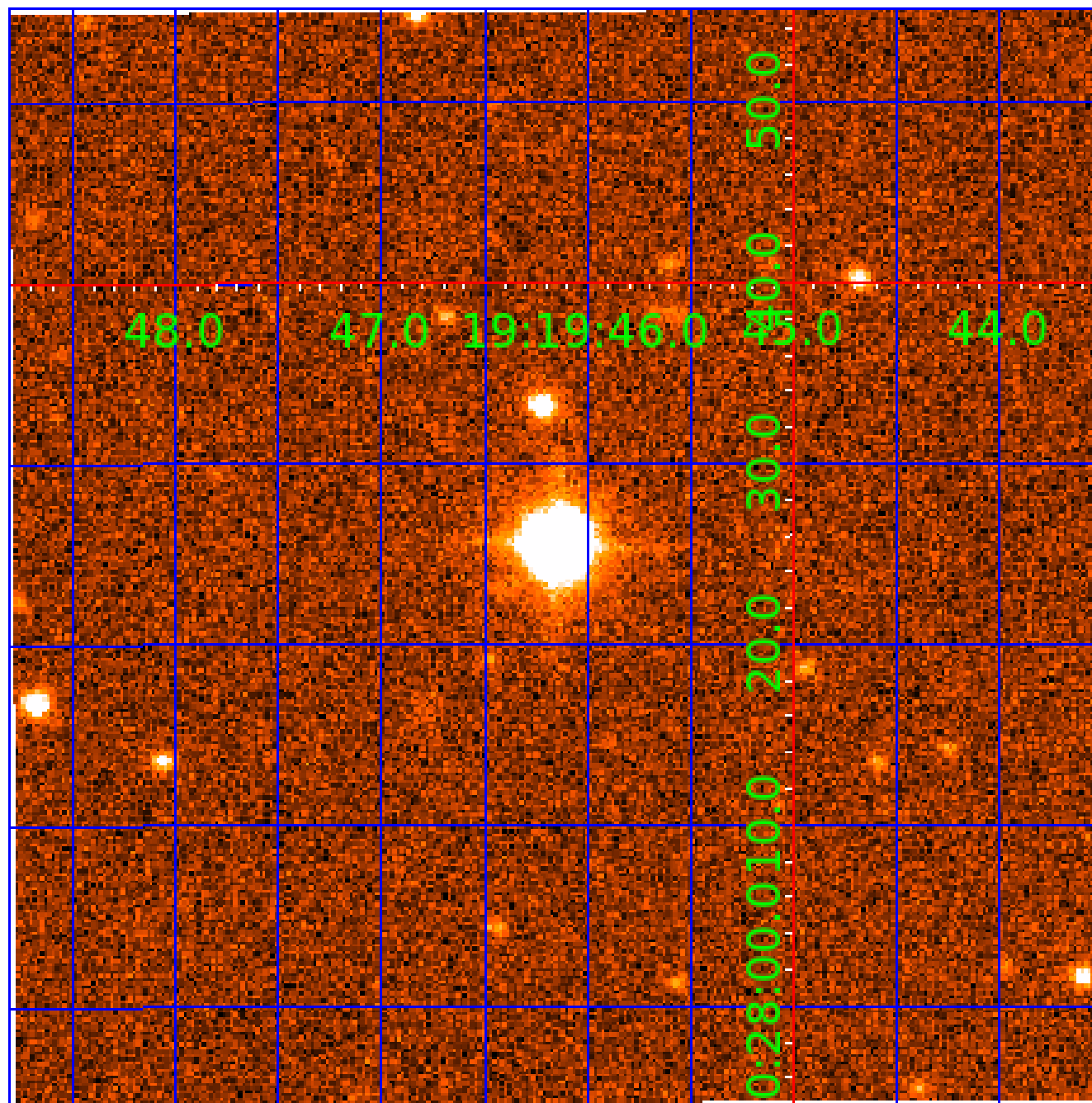


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005268904

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})
005268904-01	OBS	No	274.129821	385.545318	1574.6	9.300	15.0	7.9	0.32	3407	1.29	0.04
005268904-02	OBS	No	285.995209	304.127430	1233.3	5.010	15.5	6.2	0.32	3407	1.12	0.04
005268904-03	OBS	No	479.889813	296.120510	1972.0	8.832	13.8	7.4	0.32	3407	1.89	0.02
005268904-04	OBS	No	635.363447	278.147297	2235.9	3.499	13.7	10.4	0.32	3407	1.58	0.01
005268904-05	OBS	No	582.825132	378.080513	2081.9	7.098	14.7	8.8	0.32	3407	1.46	0.01
005268904-06	OBS	No	342.374313	457.068234	1185.7	3.779	12.8	5.2	0.32	3407	1.16	0.03
005268904-07	OBS	No	408.187606	516.363474	550.0	10.500	12.7	-1.0	0.32	3407	0.75	0.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005268904-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
005268904-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
005268904-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
005268904-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—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.

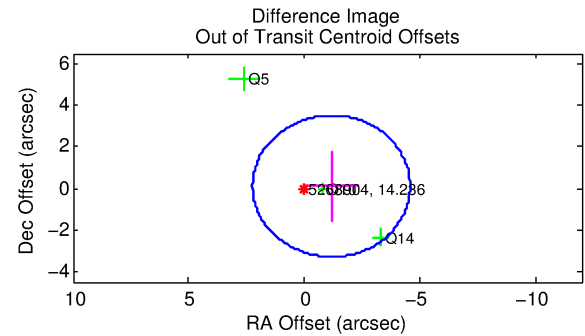
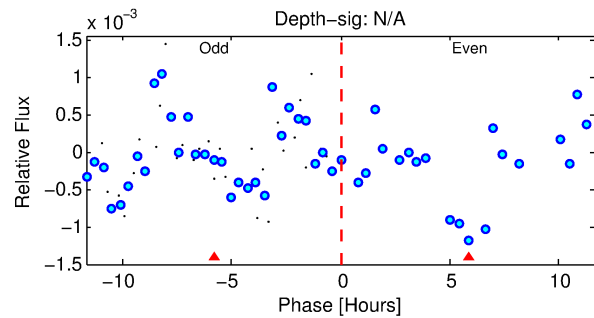
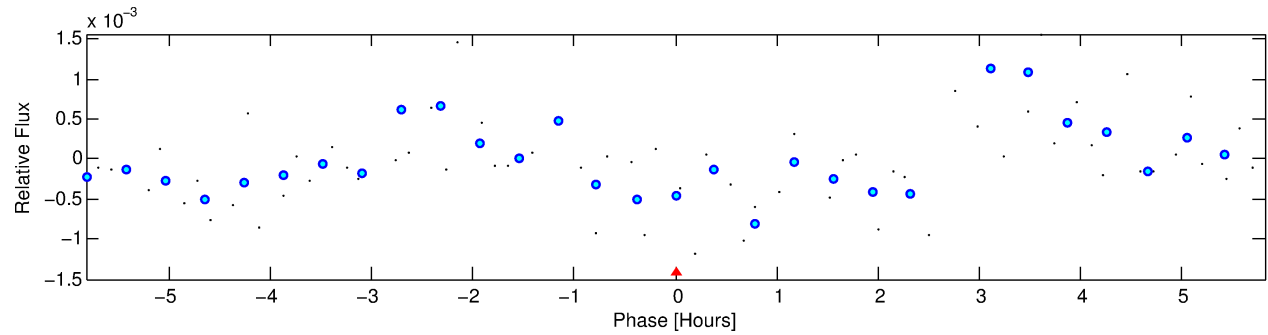
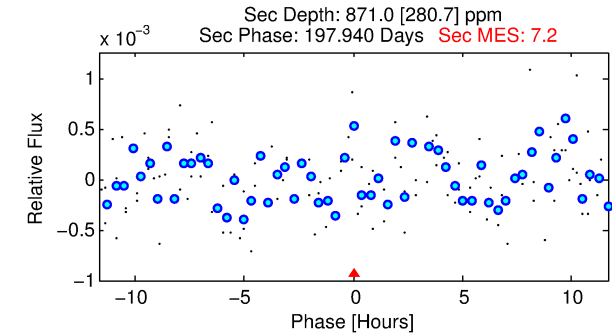
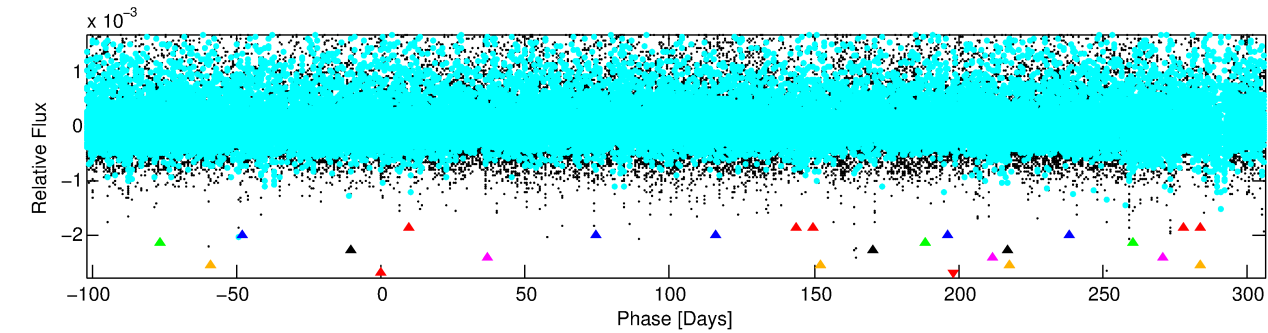
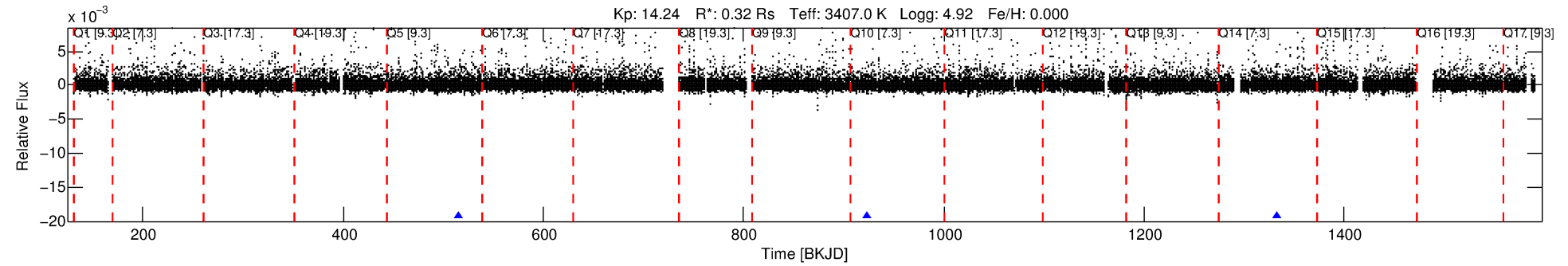
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005268904-07

No Significant Match Found

DV One-Page Summary

KIC: 5268904 Candidate: 7 of 7 Period: 408.188 d



TPS TCE Results:

Period = 408.18761 d
Epoch = 516.3635 BKJD

DV fit results are unavailable

DV Diagnostic Results:

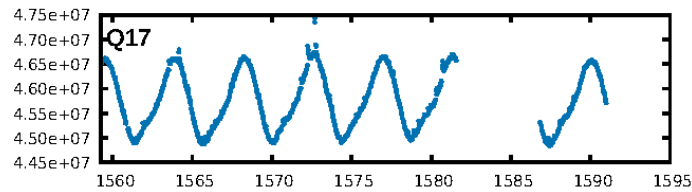
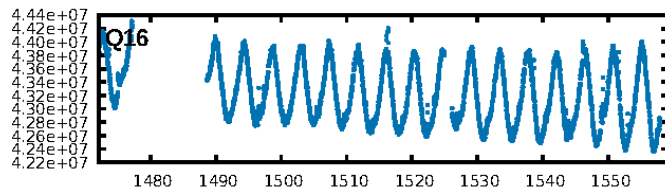
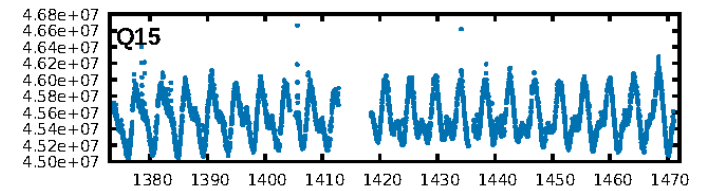
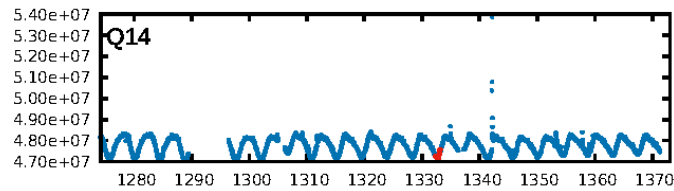
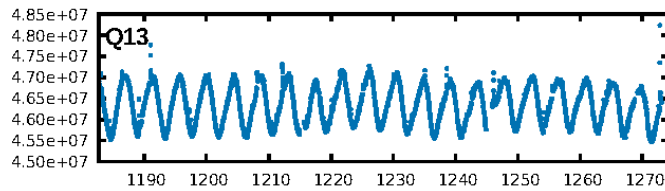
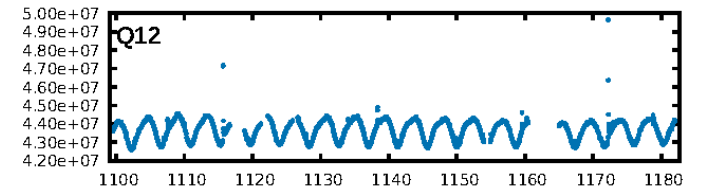
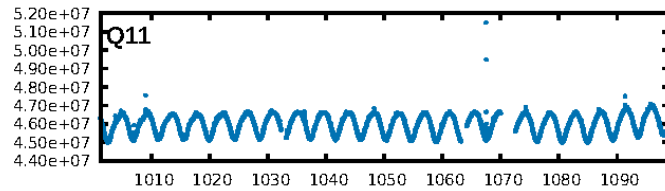
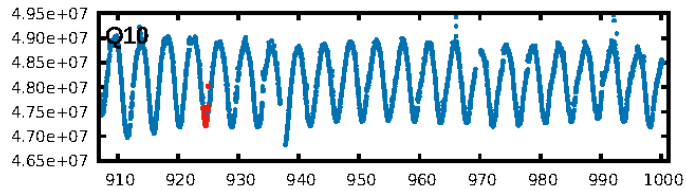
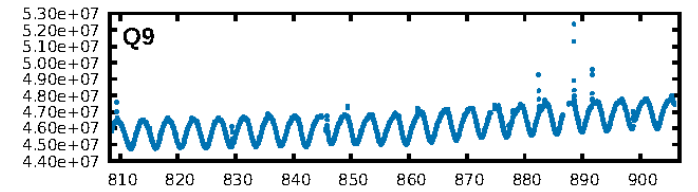
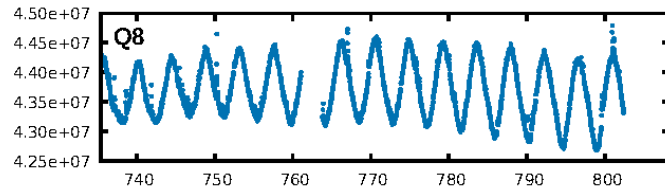
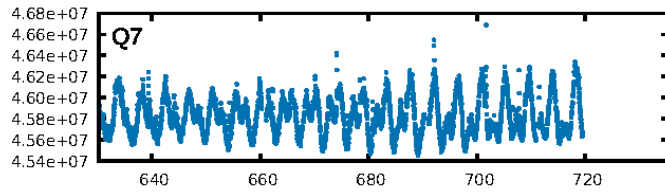
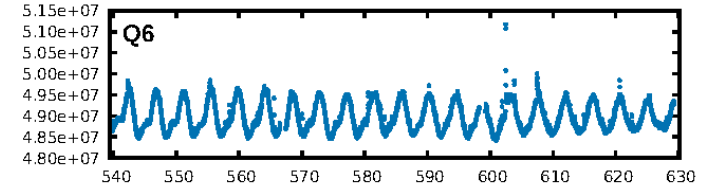
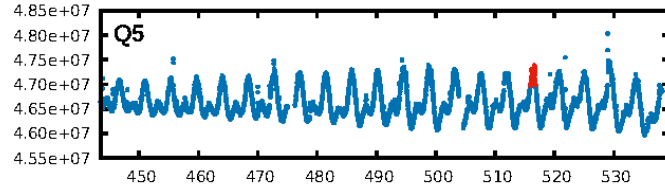
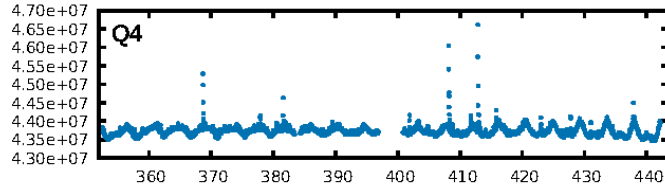
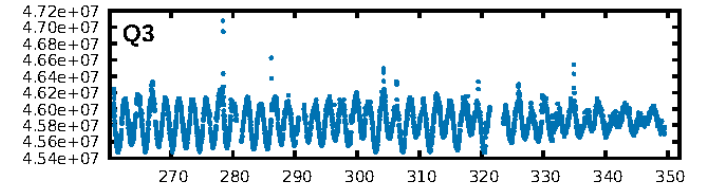
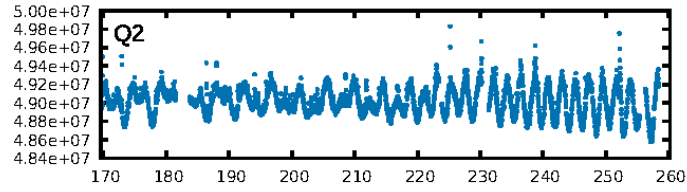
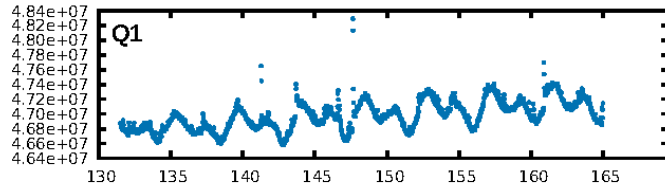
ShortPeriod-sig: 100.0% [141.54 σ]
LongPeriod-sig: 100.0% [125.42 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.4529

Centroid-sig: 27.5%
Centroid-so: 3.324 arcsec [1.25 σ]
OotOffset-rm: 1.173 arcsec [1.03 σ]
KicOffset-rm: 1.492 arcsec [1.14 σ]
OotOffset-st: 2/0/0/1 [3]
KicOffset-st: 2/0/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

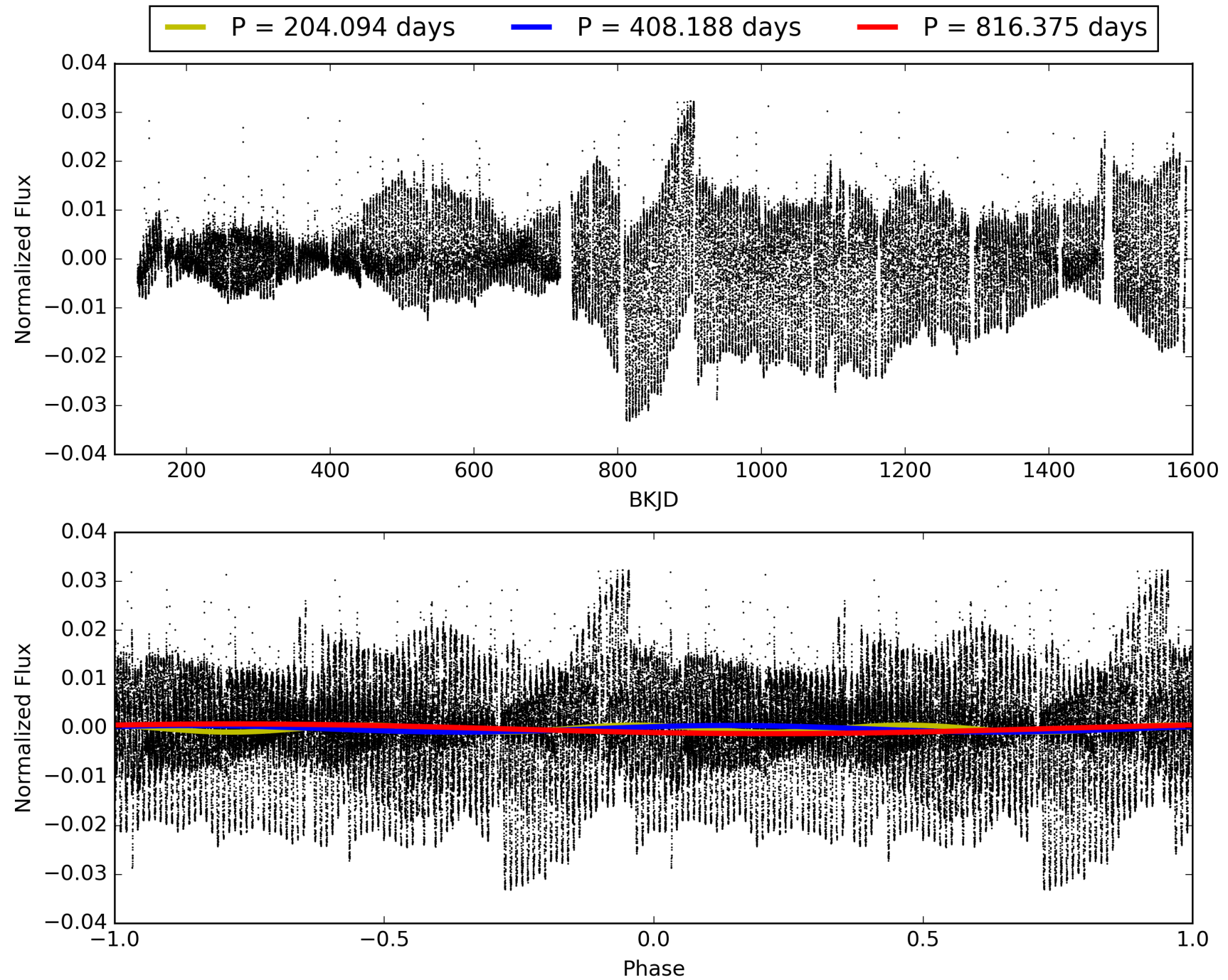
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 13:01:42 Z

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

TCE 005268904-07, PDC Light Curves

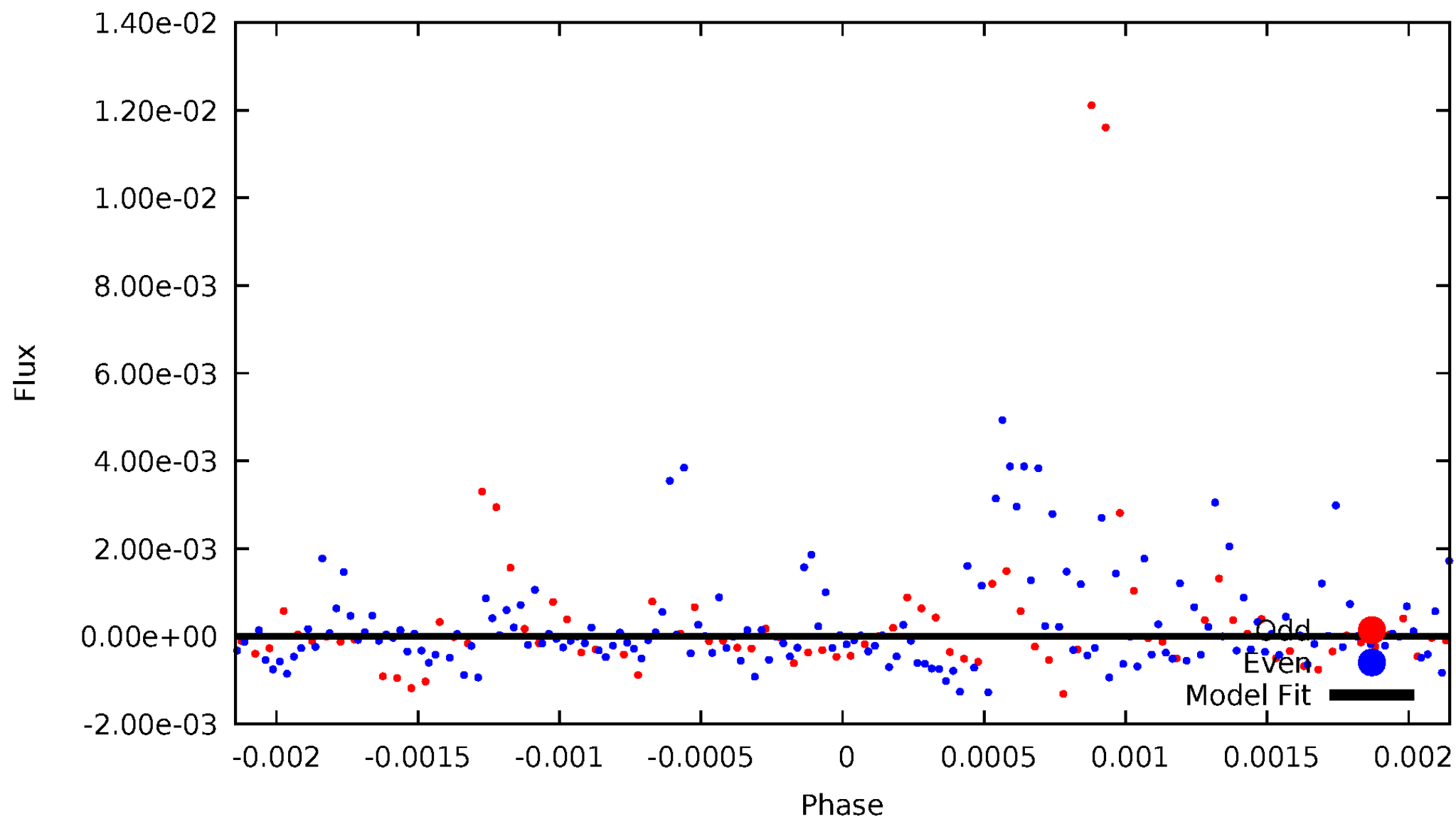


TCE 005268904-07



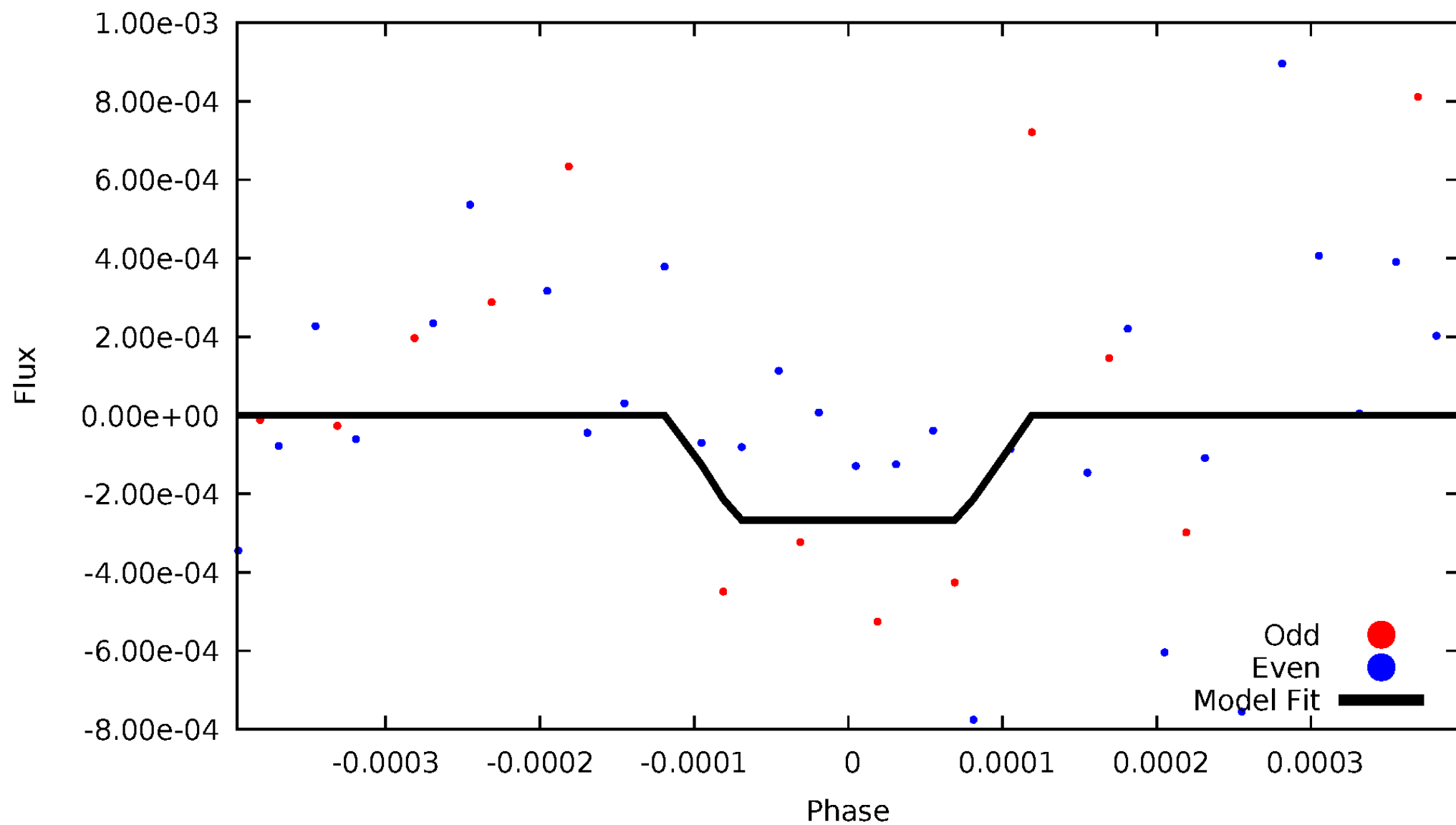
DV Odd/Even

TCE 005268904-07

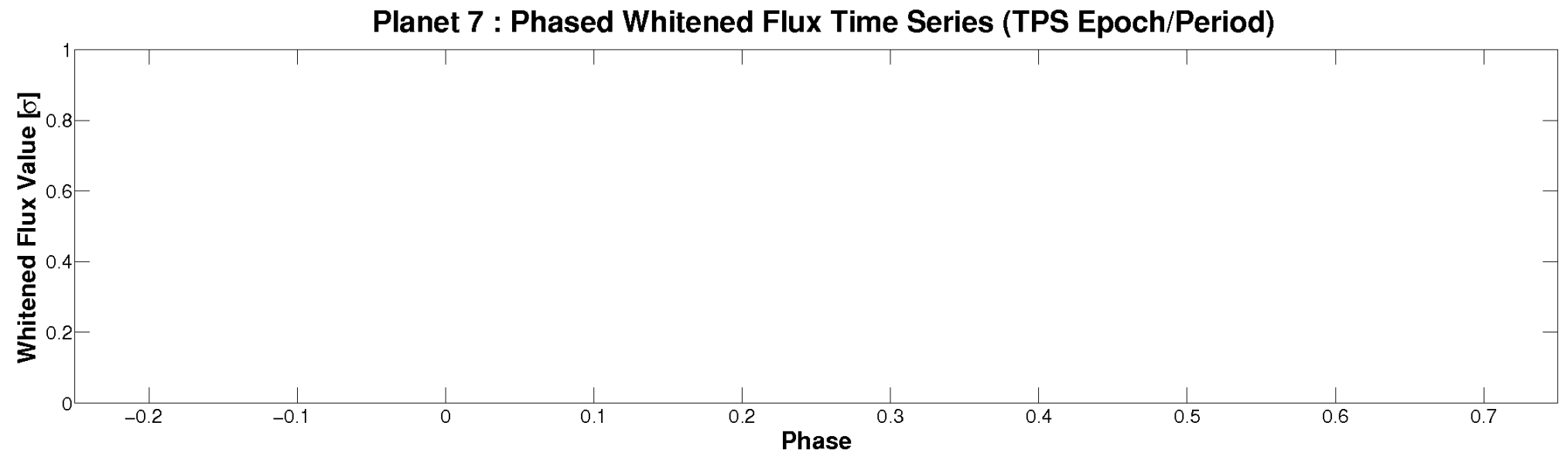
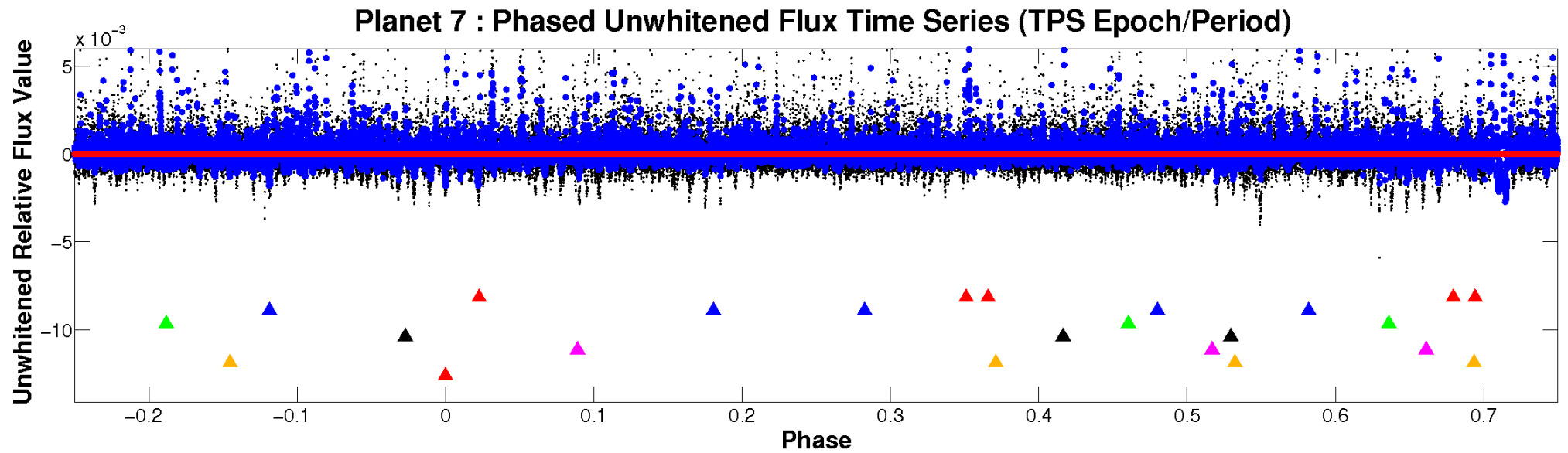


ALT Odd/Even

TCE 005268904-07

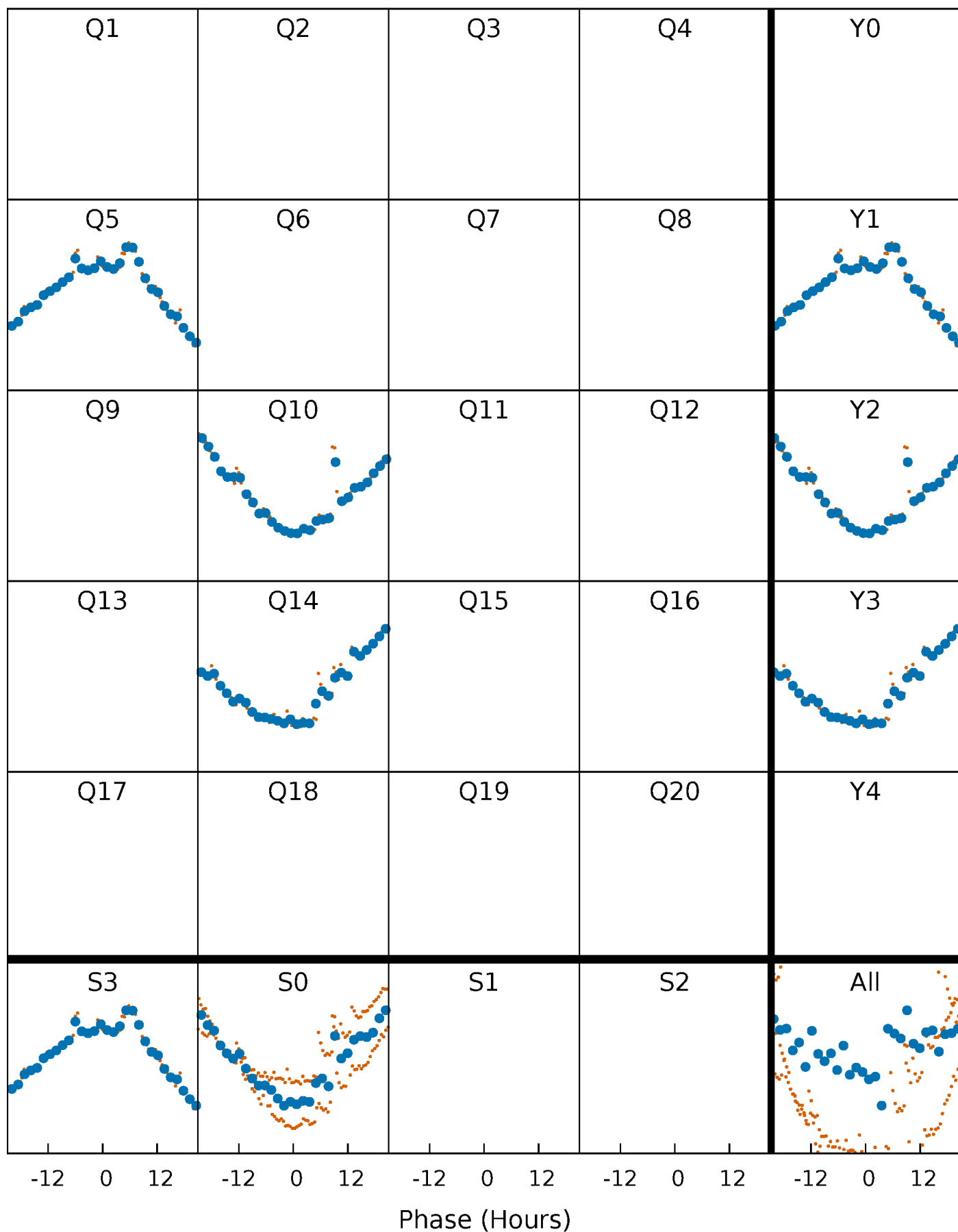


Non-Whitened Vs. Whitened Light Curve



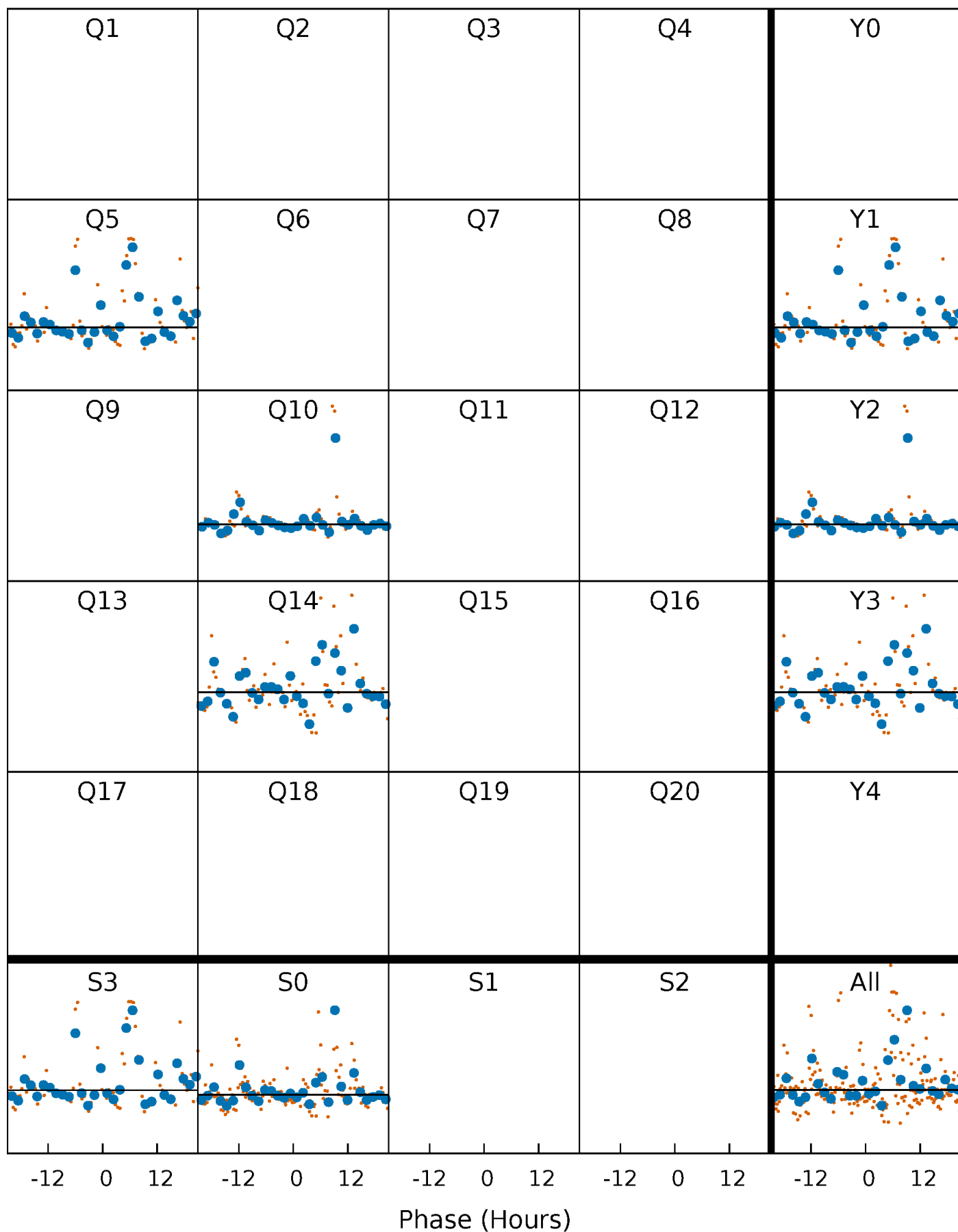
PDC Quarter-Phased Transit Curves

TCE 005268904-07 $P=408.187606$ Days $T_0=516.363474$ (BKJD)



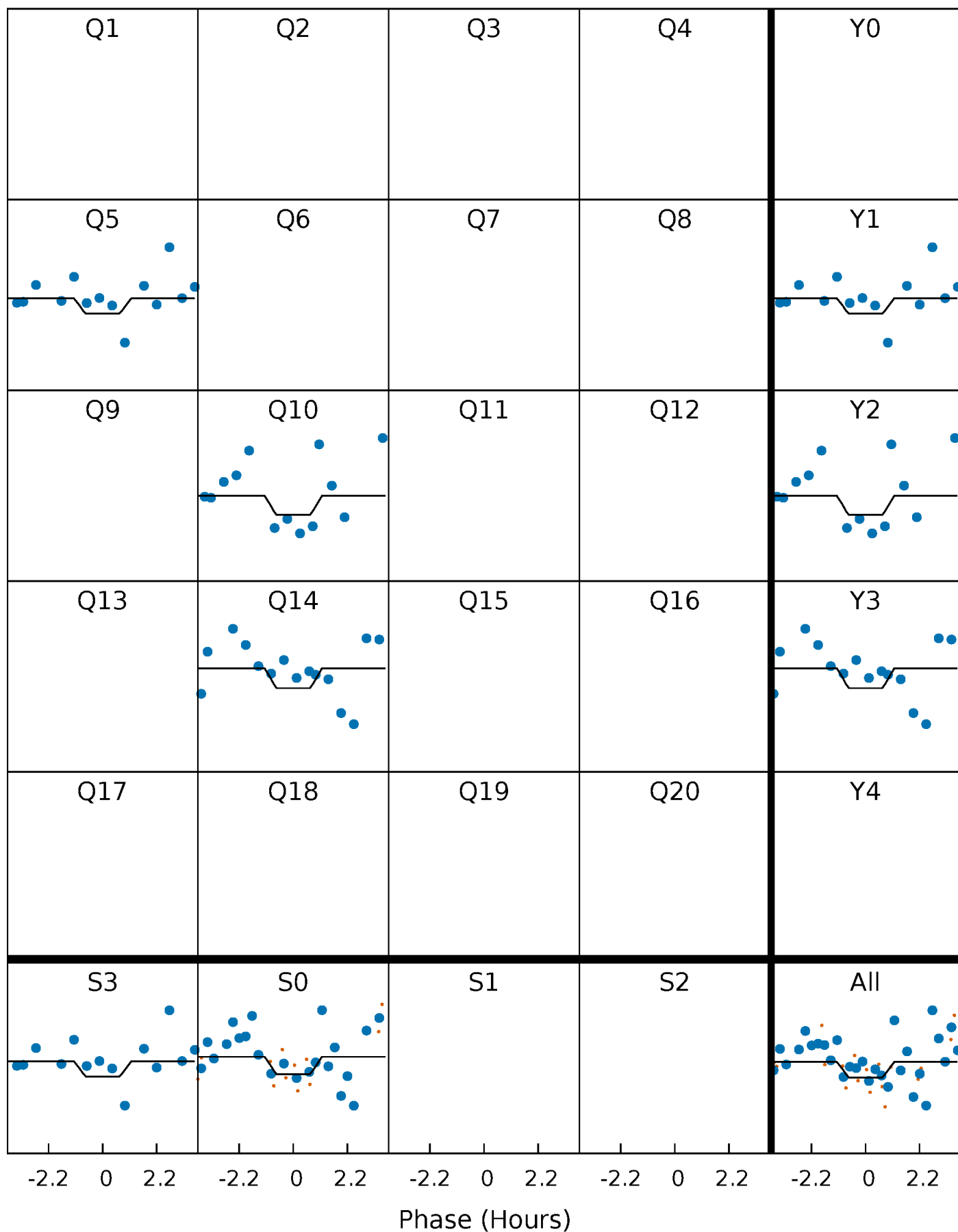
DV Quarter-Phased Transit Curves

TCE 005268904-07 $P=408.187606$ Days $T_0=516.363474$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

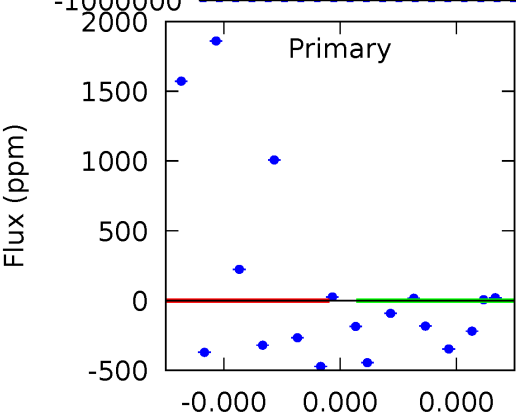
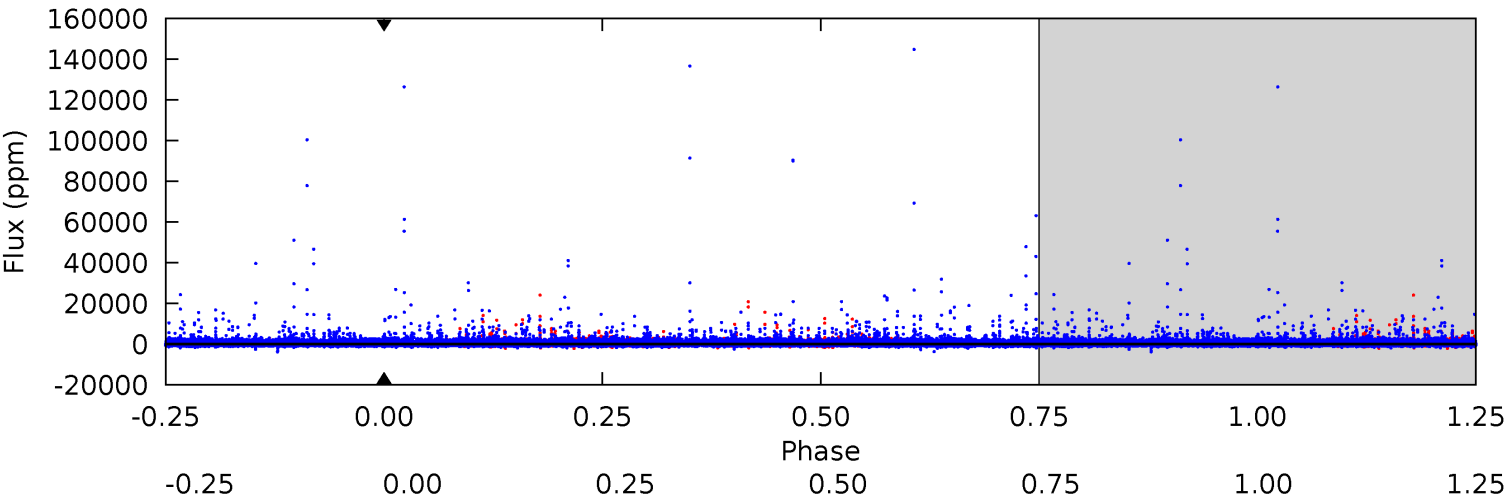
TCE 005268904-07 $P=408.187606$ Days $T_0=515.733919$ (BKJD)



DV Model-Shift Uniqueness Test

005268904-07, P = 408.187606 Days, E = 108.175868 Days

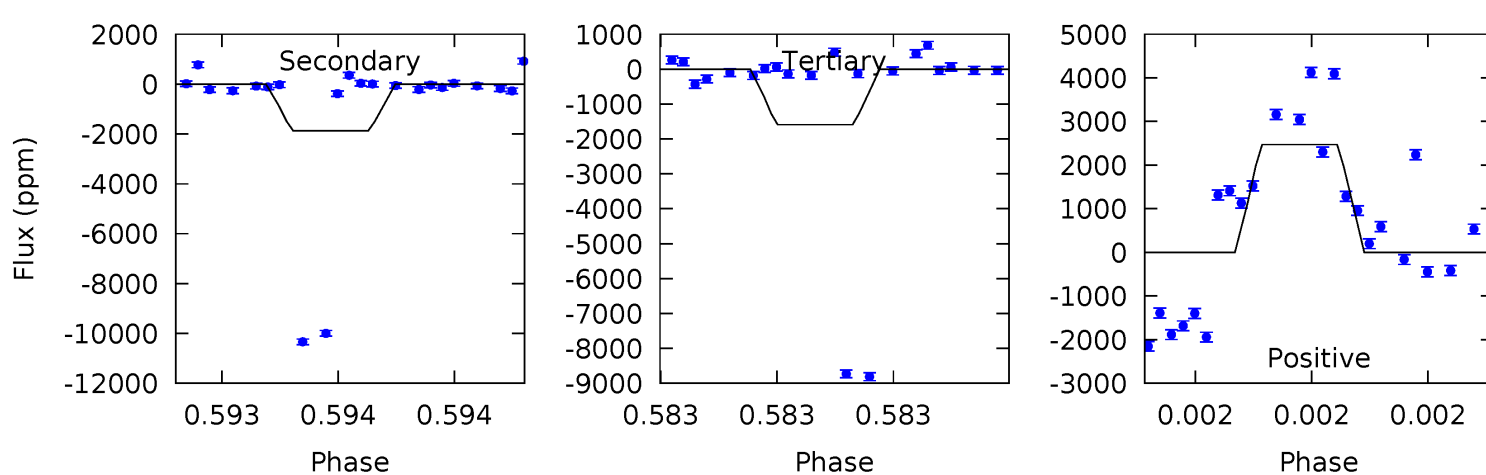
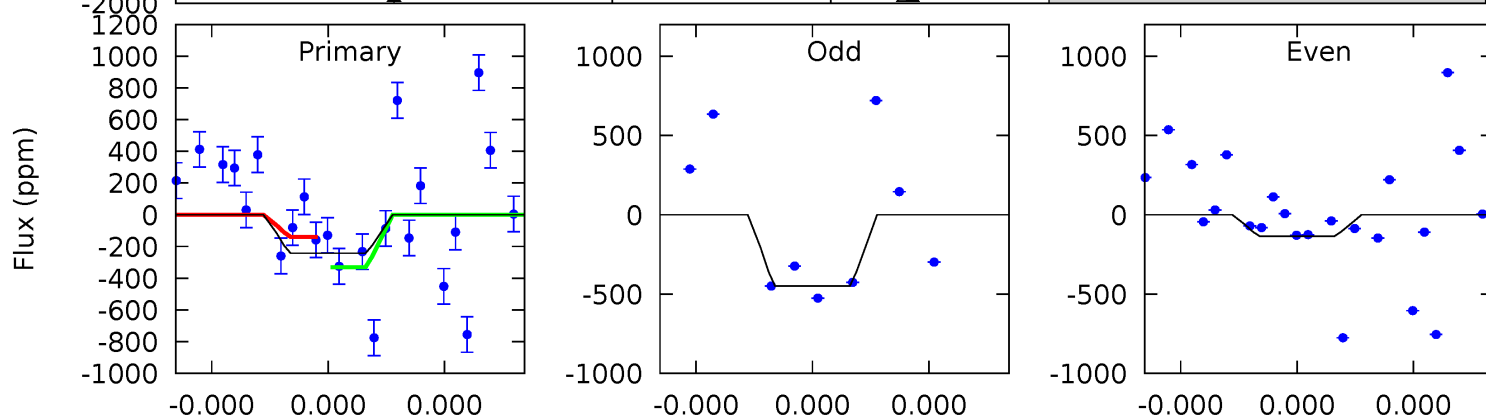
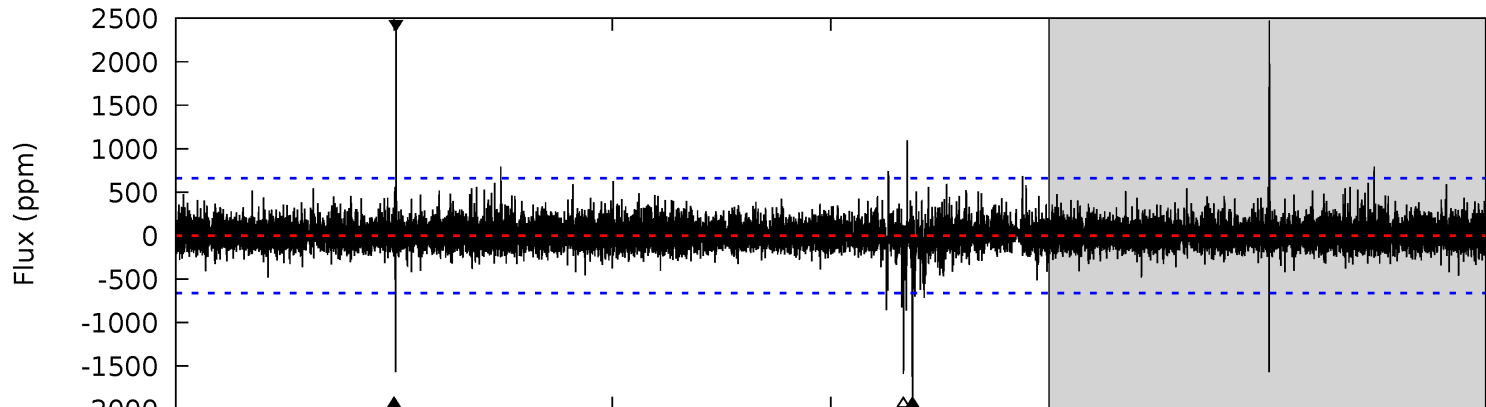
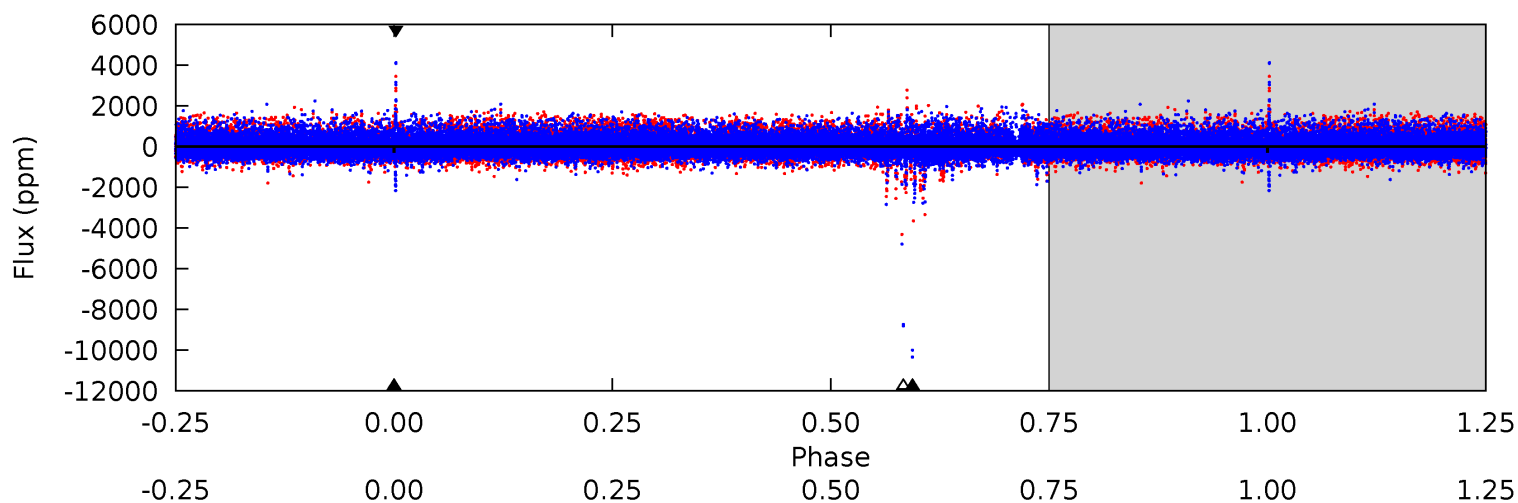
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005268904-07, P = 408.187606 Days, E = 107.546313 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.10	16.2	13.8	21.4	5.72	3.70	1.15	-11.7	-19.3	2.47	-5.14	0.50	1.05	0.57	0.81



Stellar Parameters For KIC 005268904

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3407^{+54}_{-54}	$4.923^{+0.060}_{-0.040}$	$0.000^{+0.100}_{-0.100}$	$0.324^{+0.040}_{-0.049}$	$0.320^{+0.053}_{-0.053}$	$13.280^{+4.690}_{-2.422}$
	+2%/-2%	+1%/-1%	+inf%/-inf%	+12%/-15%	+17%/-17%	+35%/-18%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 005268904-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$2.61^{+2.50}_{-1.60}$	138^{+4}_{-4}	-2742^{+9507}_{-3889}	$-55360.398^{+7170182.462}_{-6975399.077}$
Alt.	-1877 ± 116	$2.41^{+2.83}_{-1.67}$	139^{+3}_{-4}	3000^{+1385}_{-555}	$99826^{+1004776}_{-79215}$

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 $A_{obs} \gg 1.0$

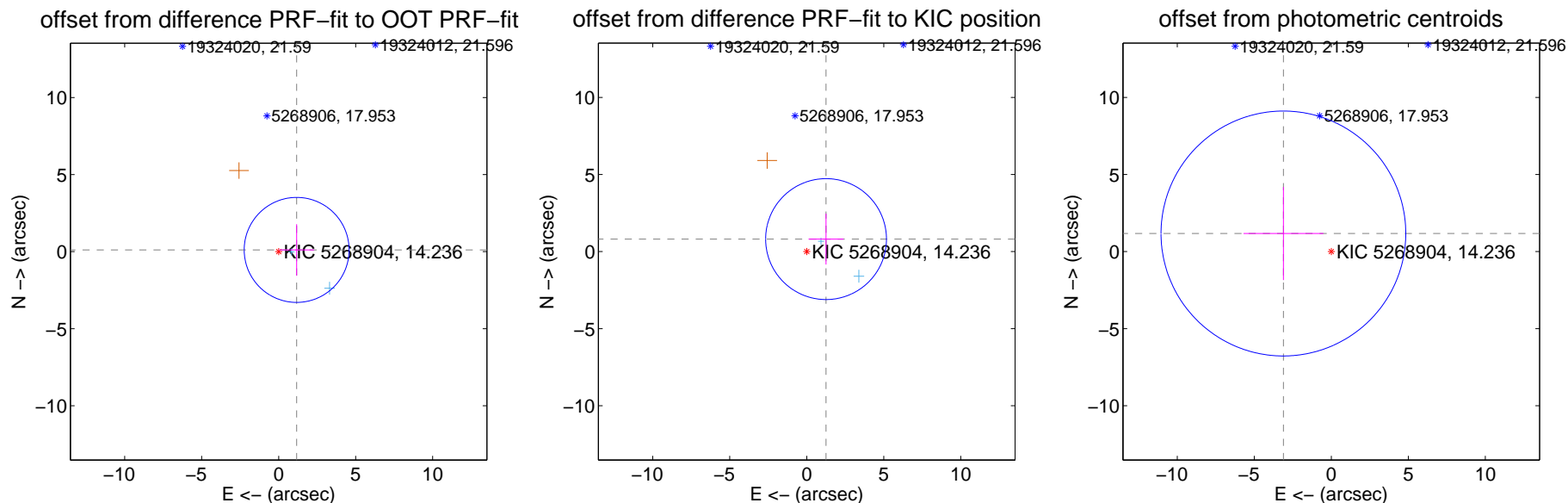
DV Centroid Data

Supplemental centroid analysis for 005268904-07. Kepler magnitude: 14.24. 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 0.78 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.173 ± 1.136	1.03	-1.168 ± 1.129	0.113 ± 1.673
PRF-fit source offset from KIC position	1.492 ± 1.308	1.14	-1.253 ± 1.133	0.810 ± 1.652
photometric centroid source offset	3.32 ± 2.65	1.25	3.11 ± 2.59	1.17 ± 3.02

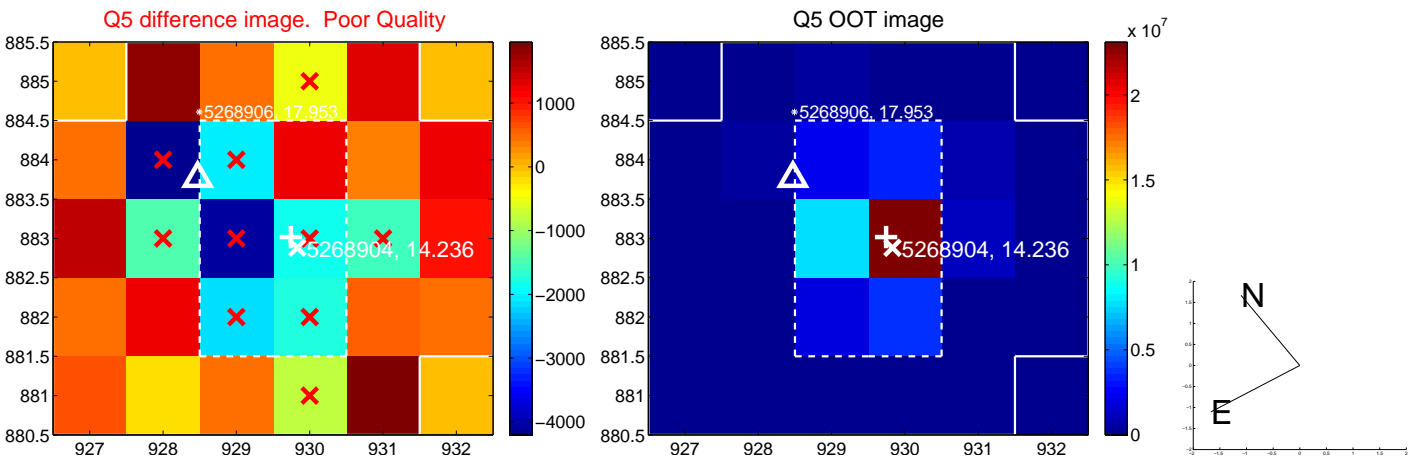


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

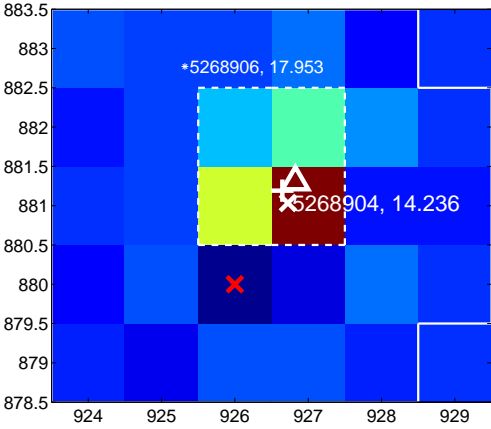
Q9 no difference image



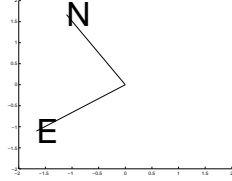
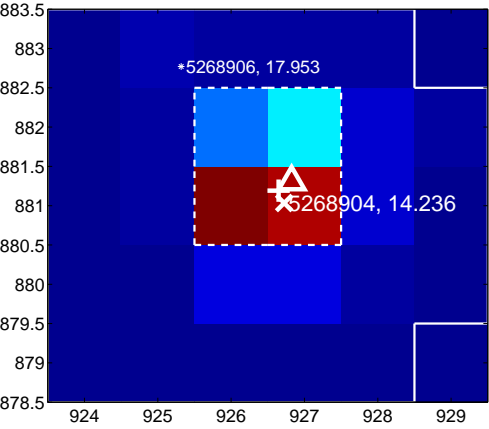
Q9 no OOT image



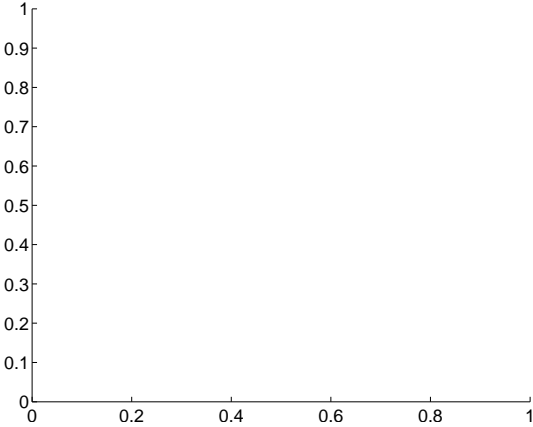
Q10 difference image



Q10 OOT image



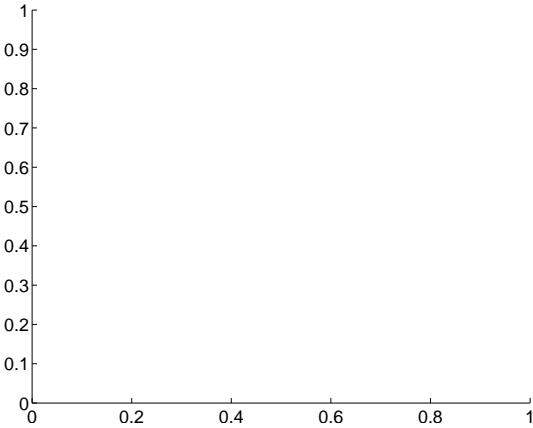
Q11 no difference image



Q11 no OOT image



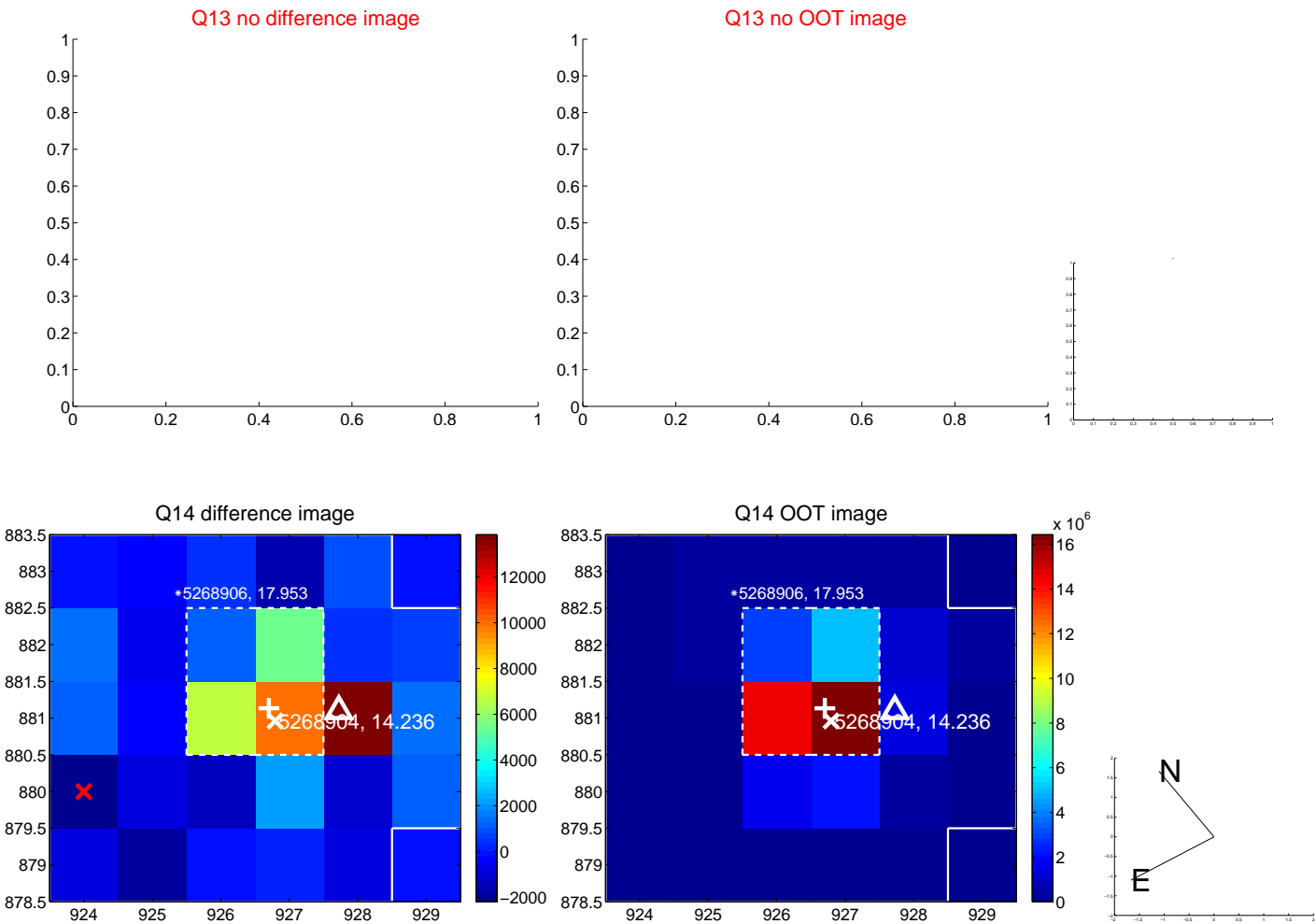
Q12 no difference image



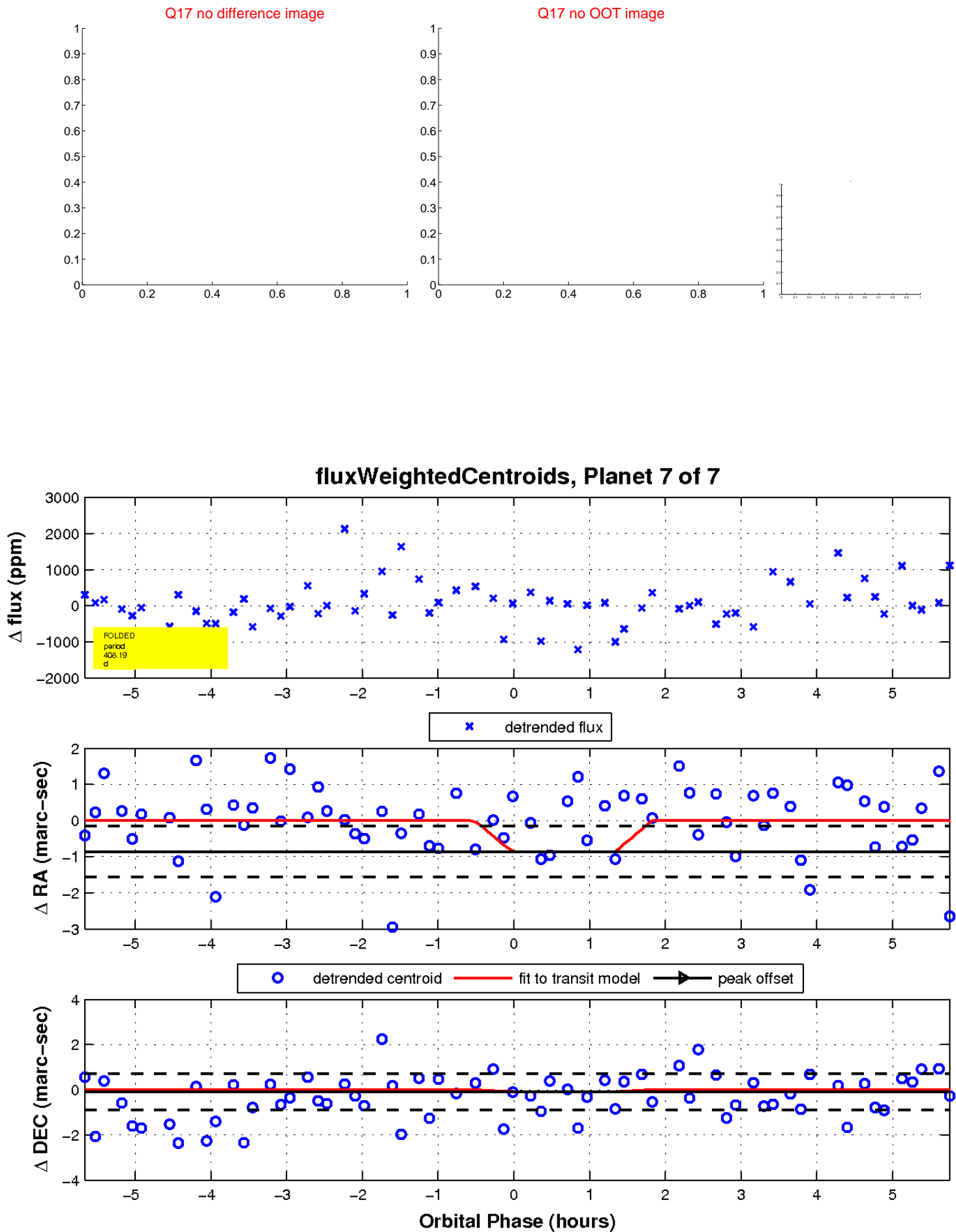
Q12 no OOT image



white \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

