

KIC 009268249

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})
009268249-01	OBS	No	376.408585	178.644108	515.7	7.907	11.8	7.4	2.25	4864	5.79	2.21
009268249-02	OBS	No	607.857696	234.390491	1452.6	6.729	14.8	15.7	2.25	4864	9.36	1.17
009268249-03	OBS	No	469.820098	362.986560	283.7	4.441	10.8	3.6	2.25	4864	4.92	1.65
009268249-04	OBS	No	223.441539	255.273241	499.2	2.964	10.5	9.1	2.25	4864	5.45	4.43
009268249-05	OBS	No	395.713443	259.368943	428.8	4.819	9.1	6.8	2.25	4864	5.55	2.07
009268249-06	OBS	No	500.503980	507.579570	560.7	5.138	11.5	6.2	2.25	4864	5.78	1.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009268249-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS
009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

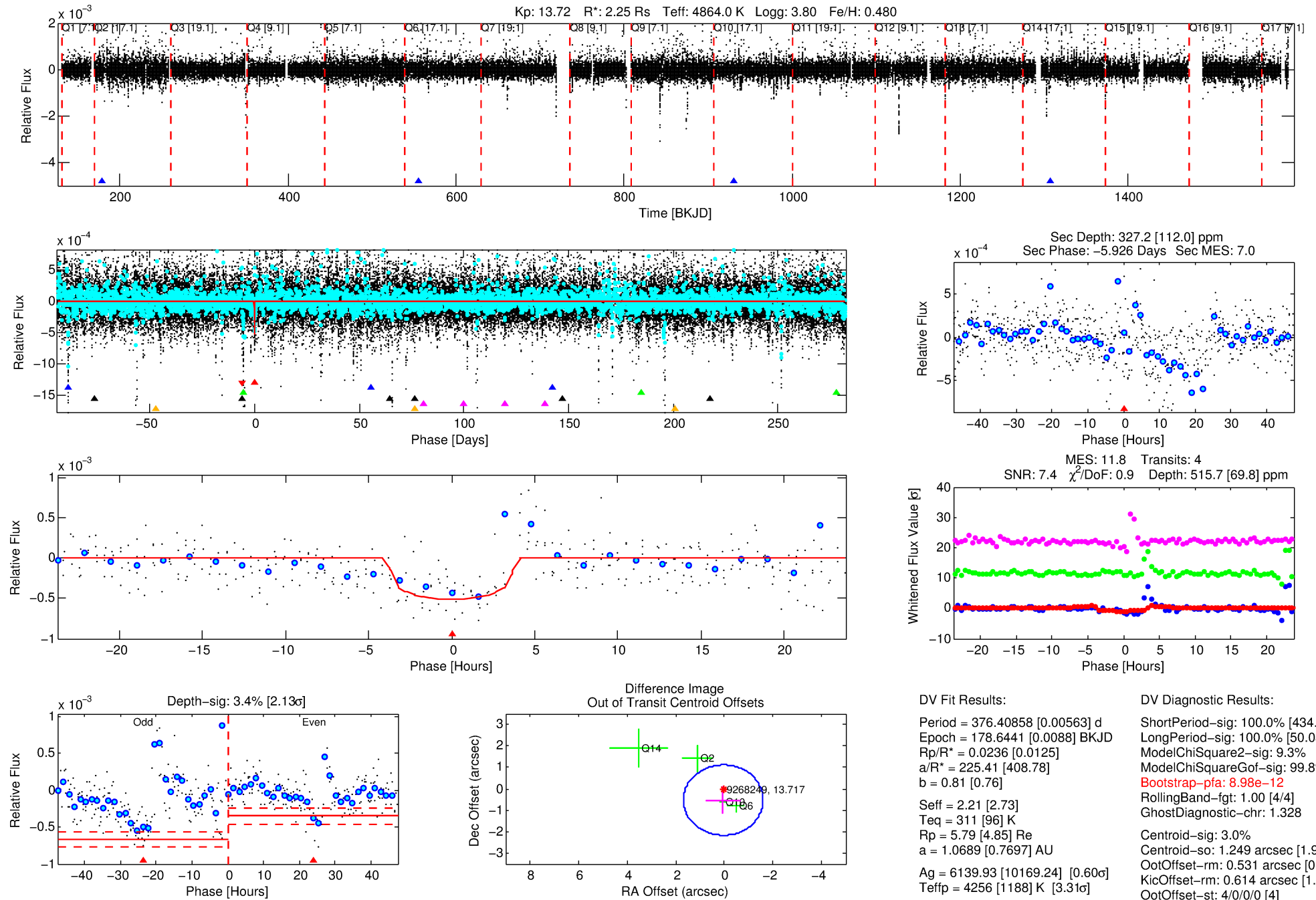
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-01

No Significant Match Found

DV One-Page Summary

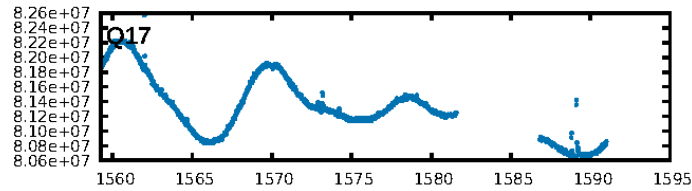
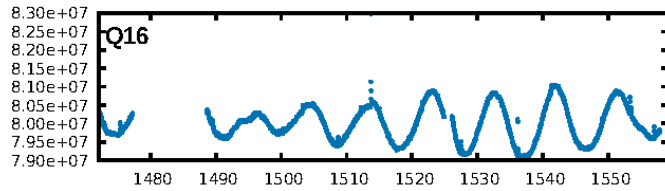
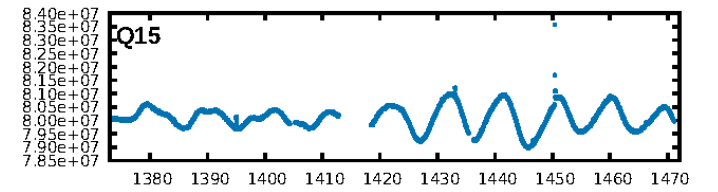
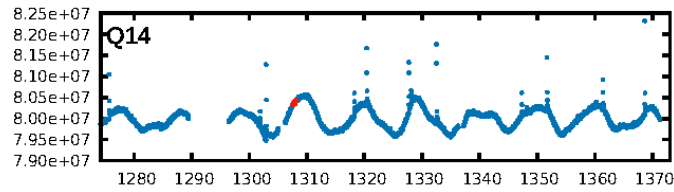
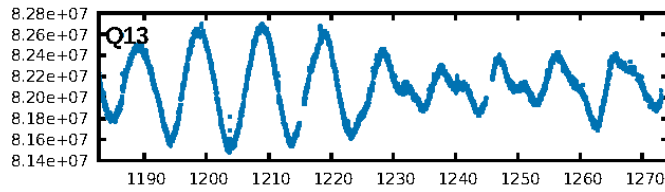
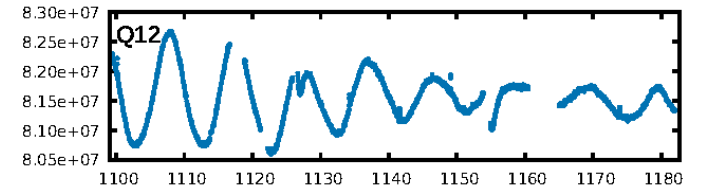
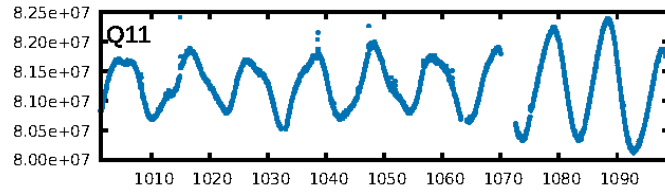
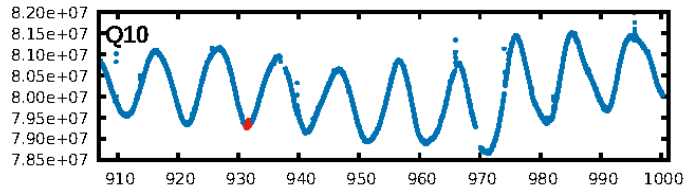
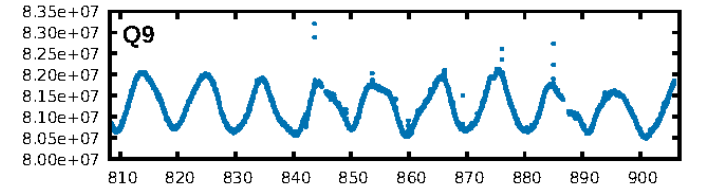
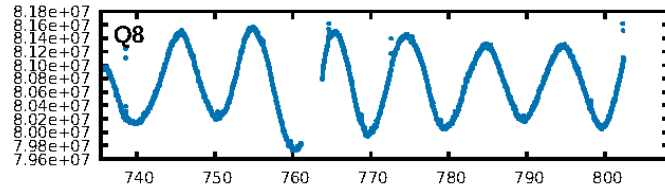
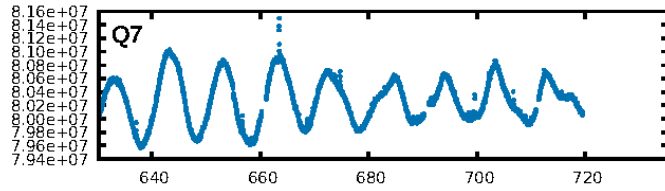
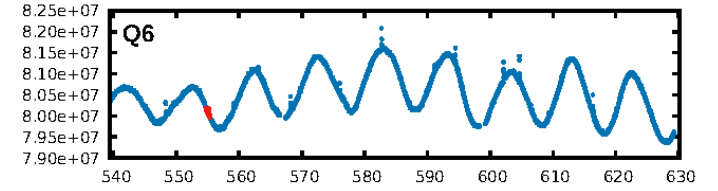
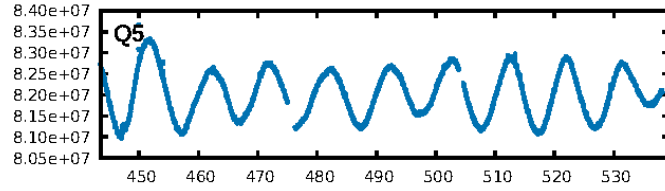
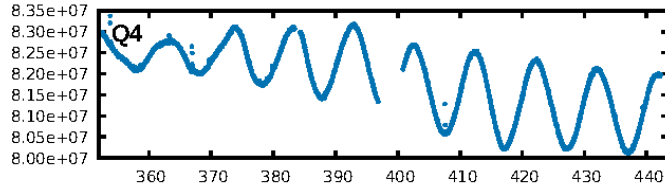
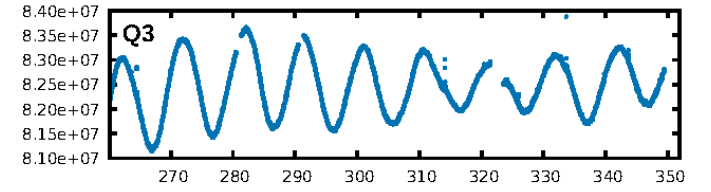
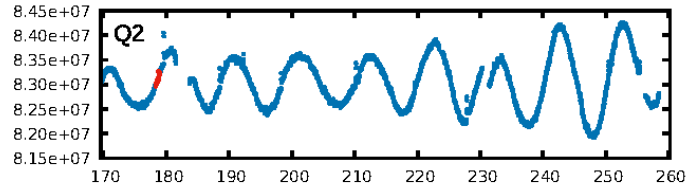
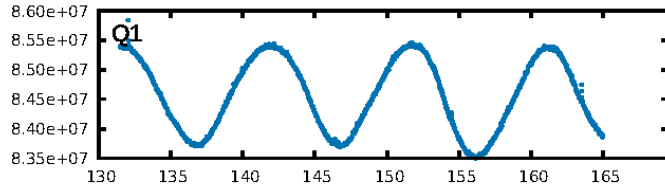
KIC: 9268249 Candidate: 1 of 6 Period: 376.409 d



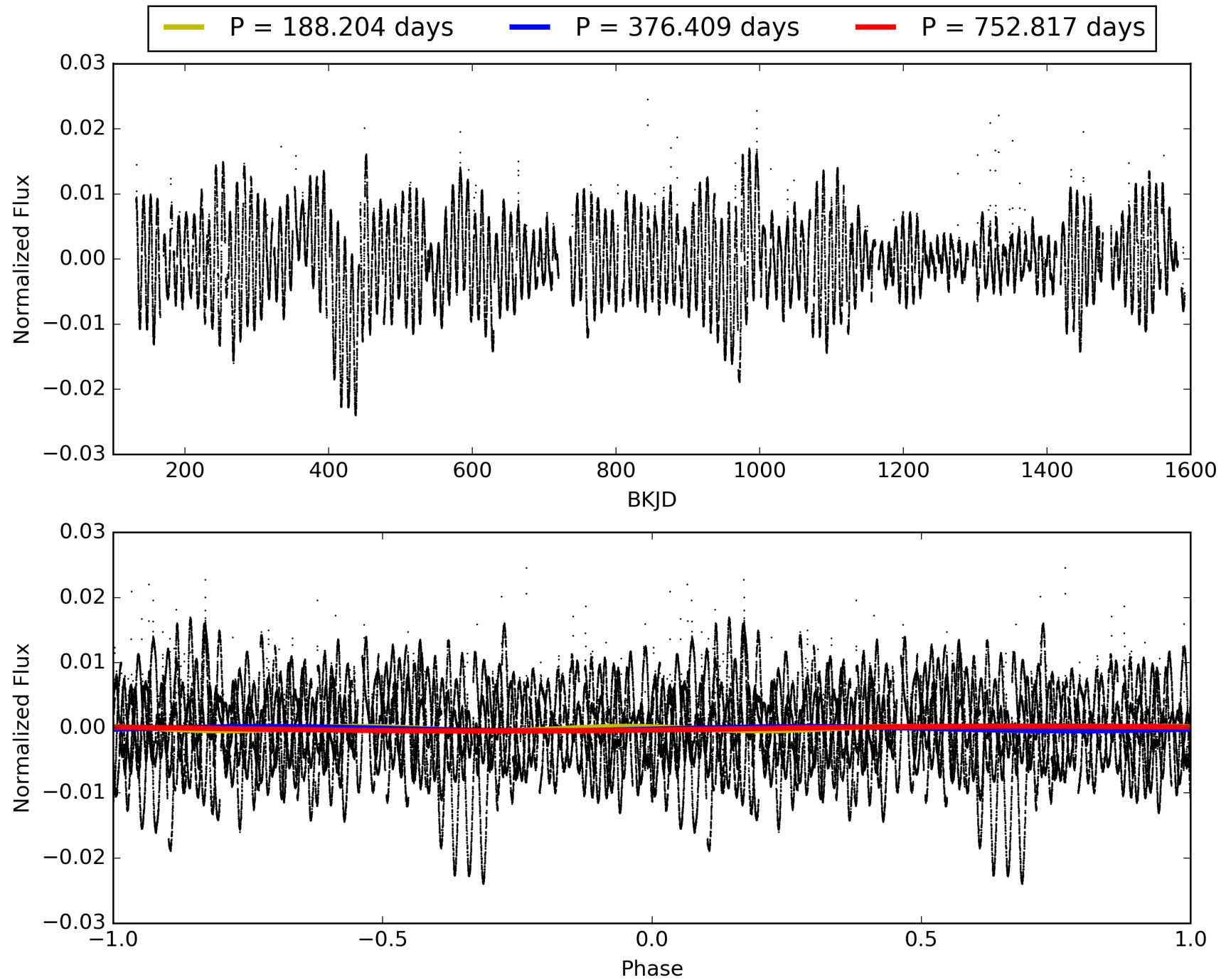
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 009268249-01, PDC Light Curves

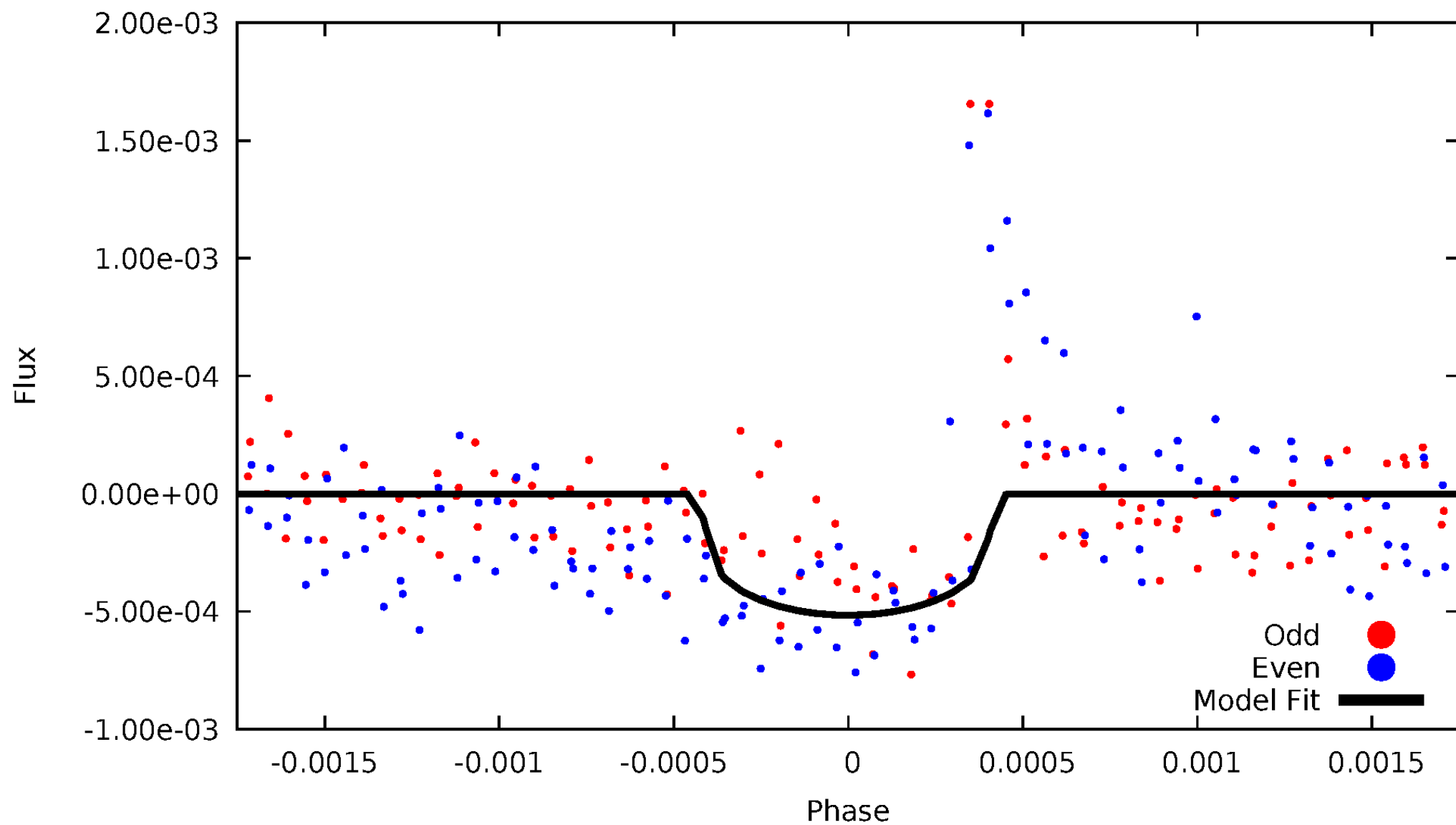


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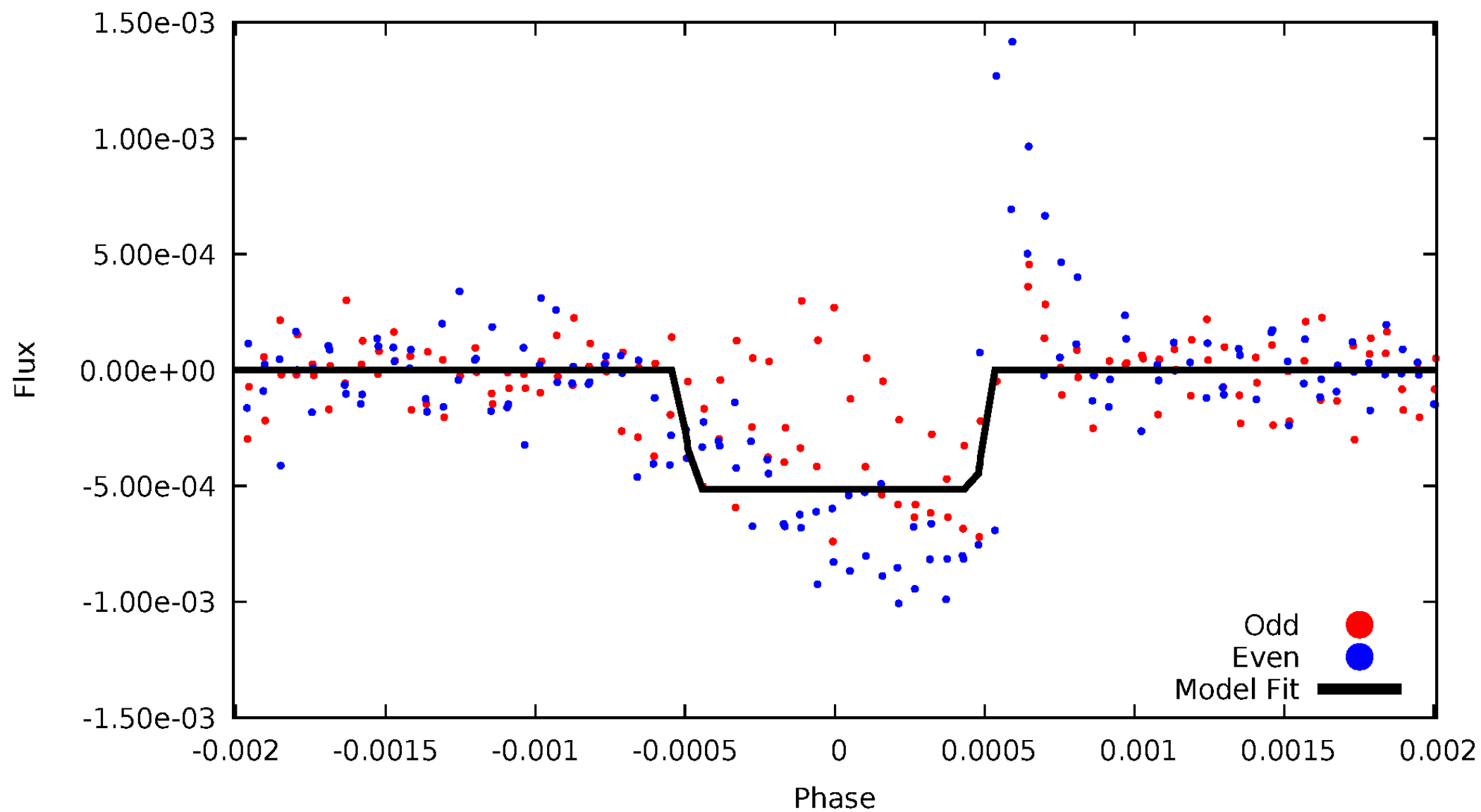
DV Odd/Even

TCE 009268249-01



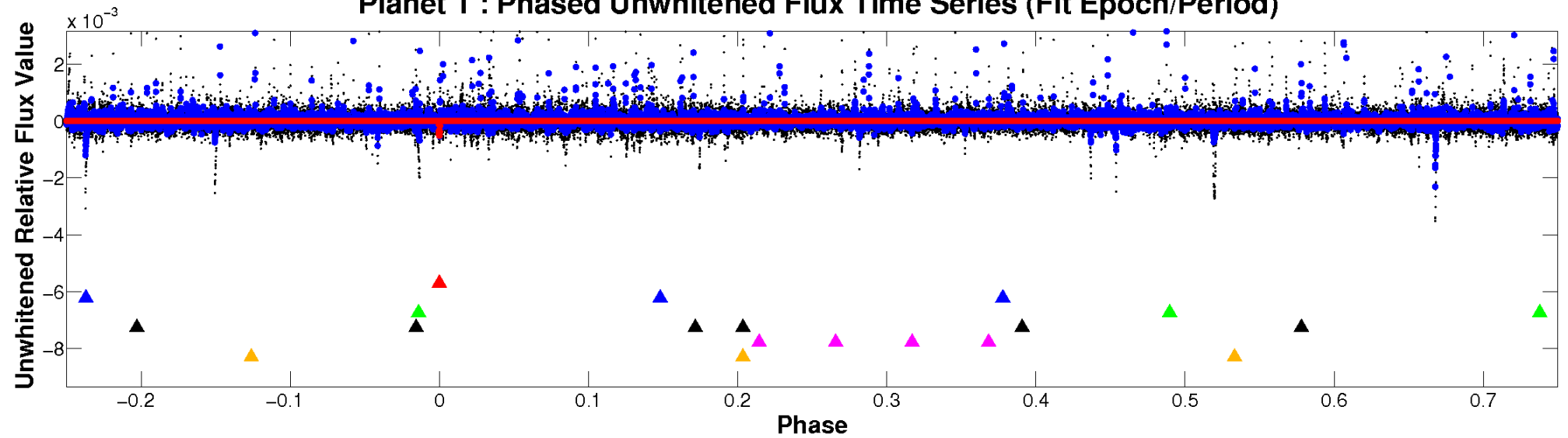
ALT Odd/Even

TCE 009268249-01

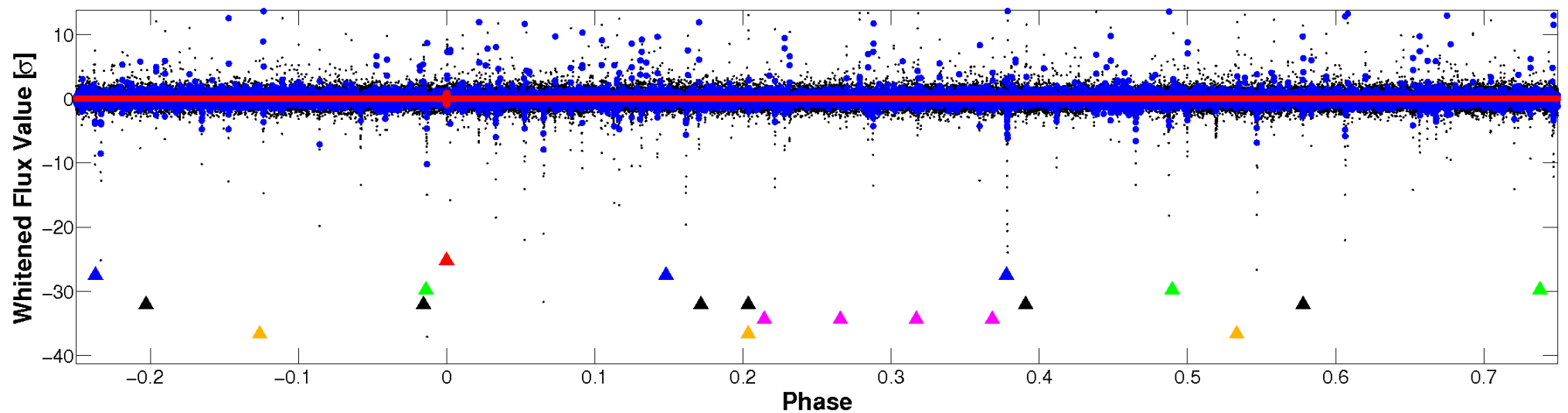


Non-Whitened Vs. Whitened Light Curve

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

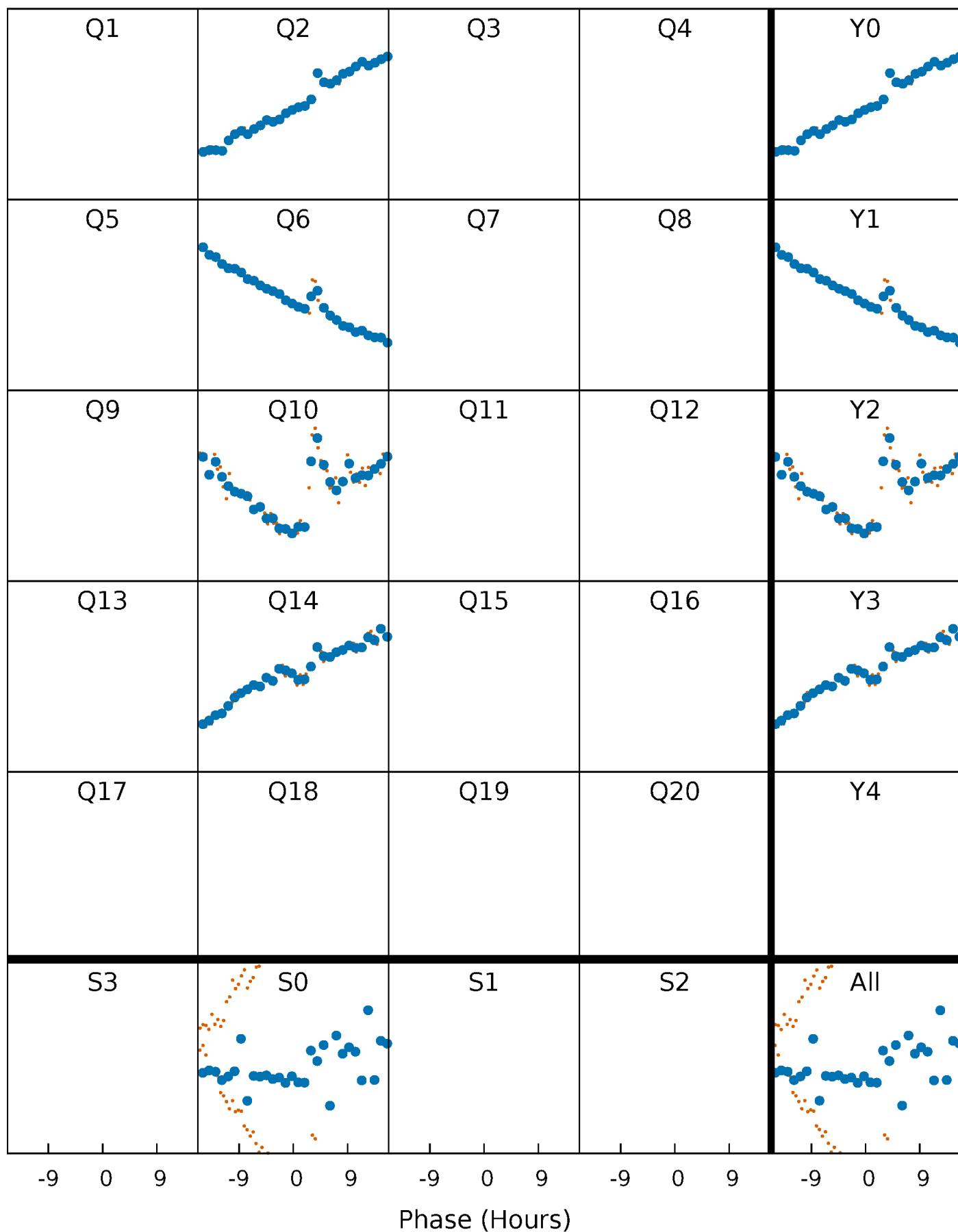


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



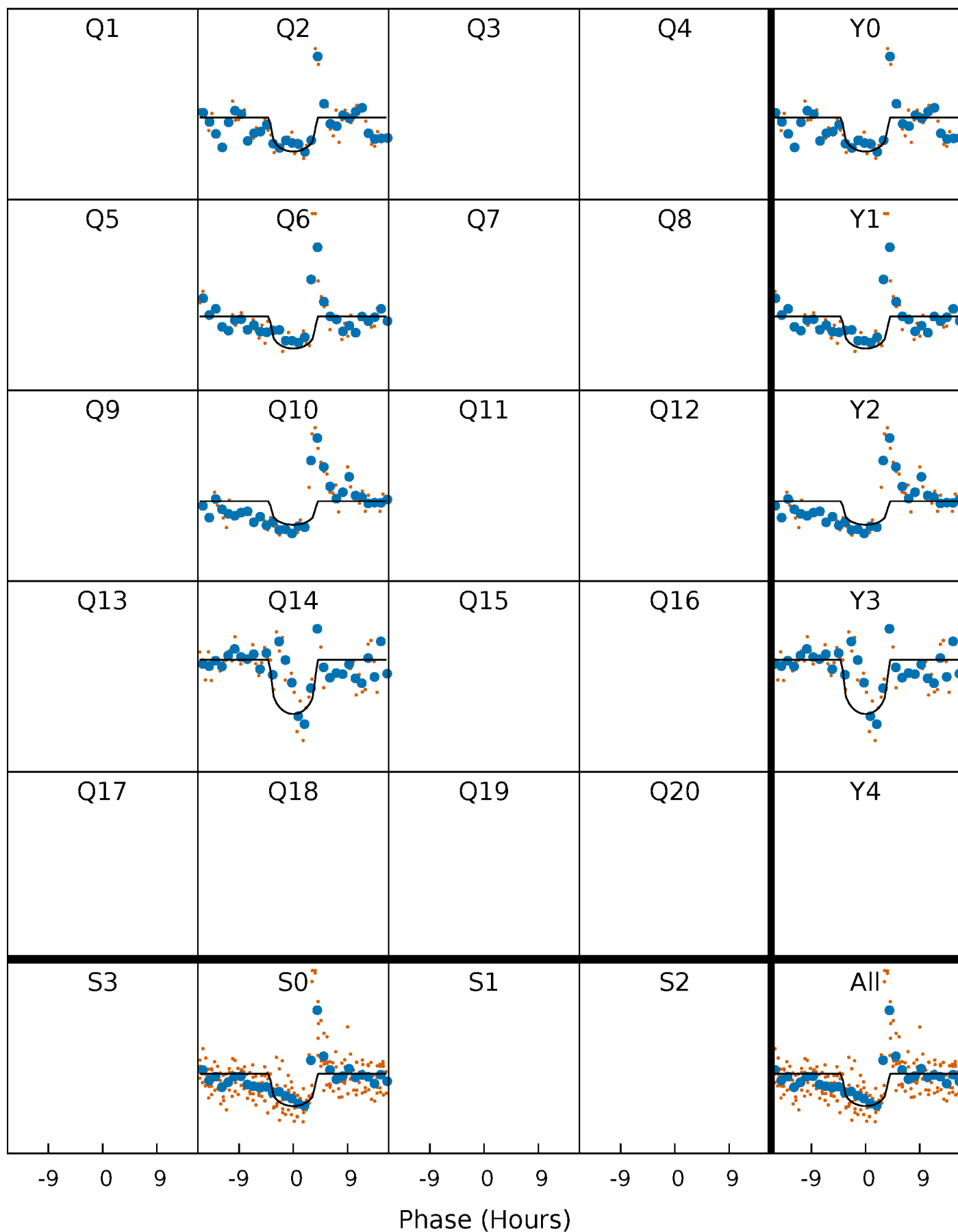
PDC Quarter-Phased Transit Curves

TCE 009268249-01 P=376.408585 Days $T_0=178.644108$ (BKJD)



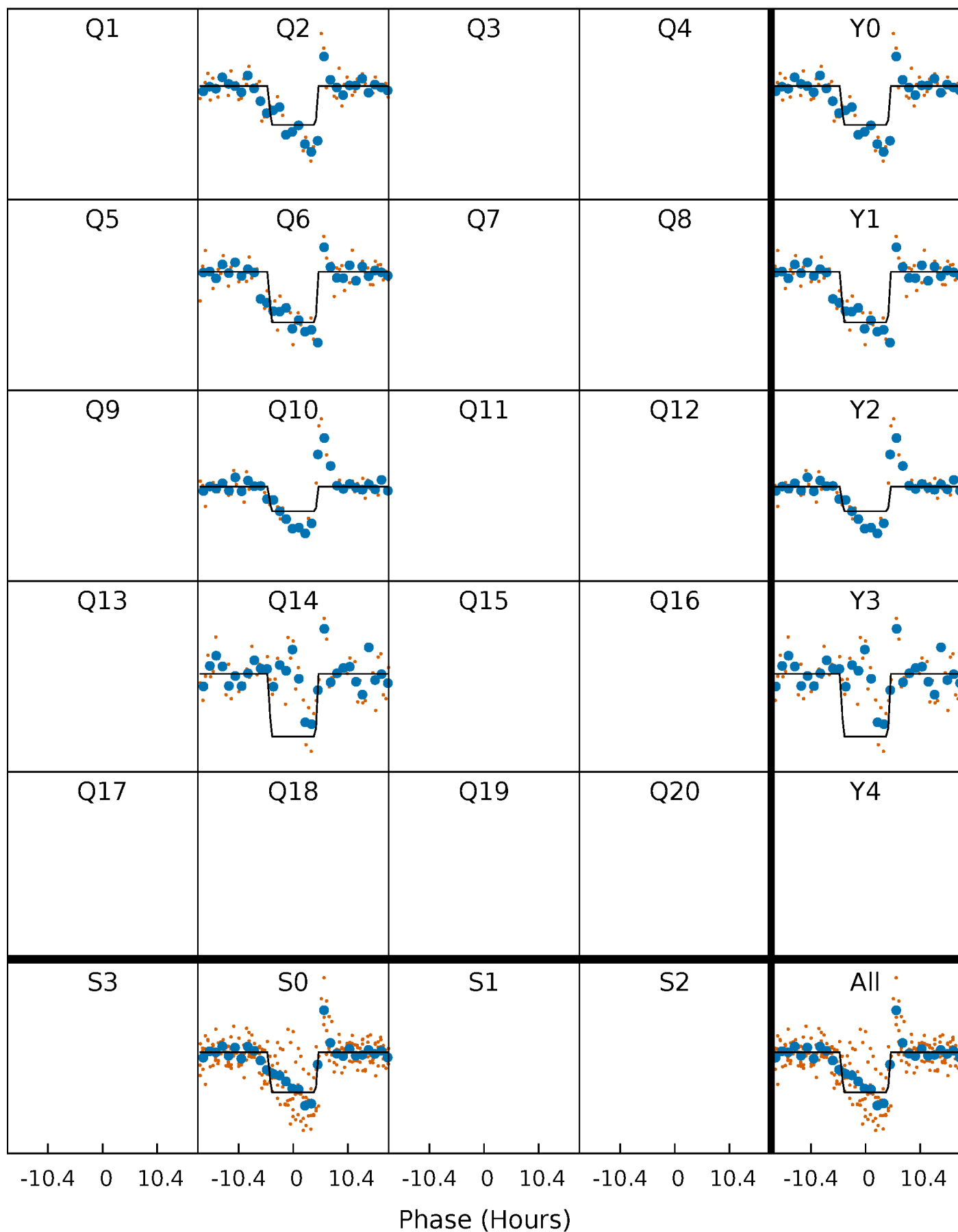
DV Quarter-Phased Transit Curves

TCE 009268249-01 P=376.408585 Days $T_0=178.644108$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

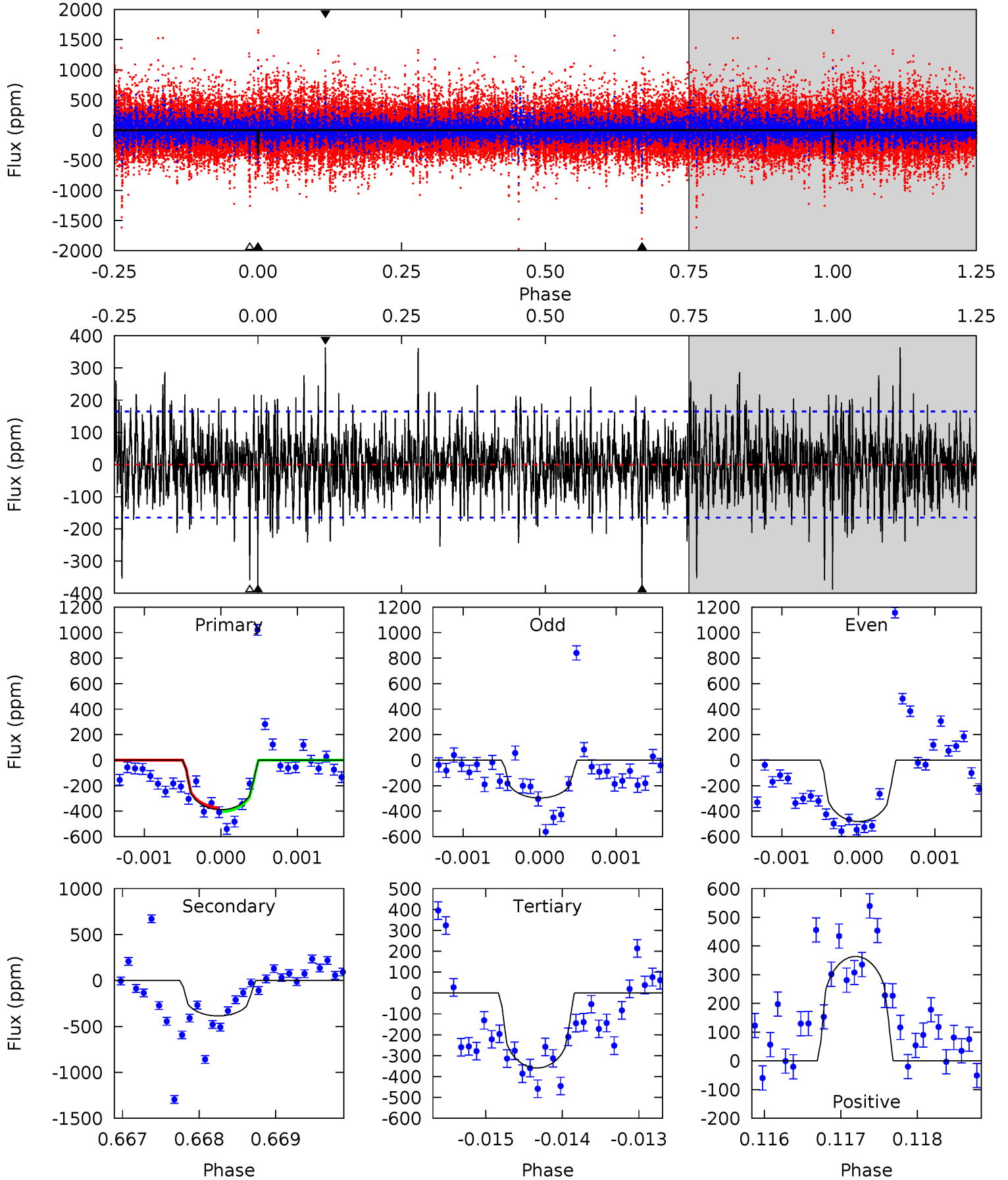
TCE 009268249-01 P=376.406609 Days $T_0=178.575696$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-01, P = 376.408585 Days, E = 178.644108 Days

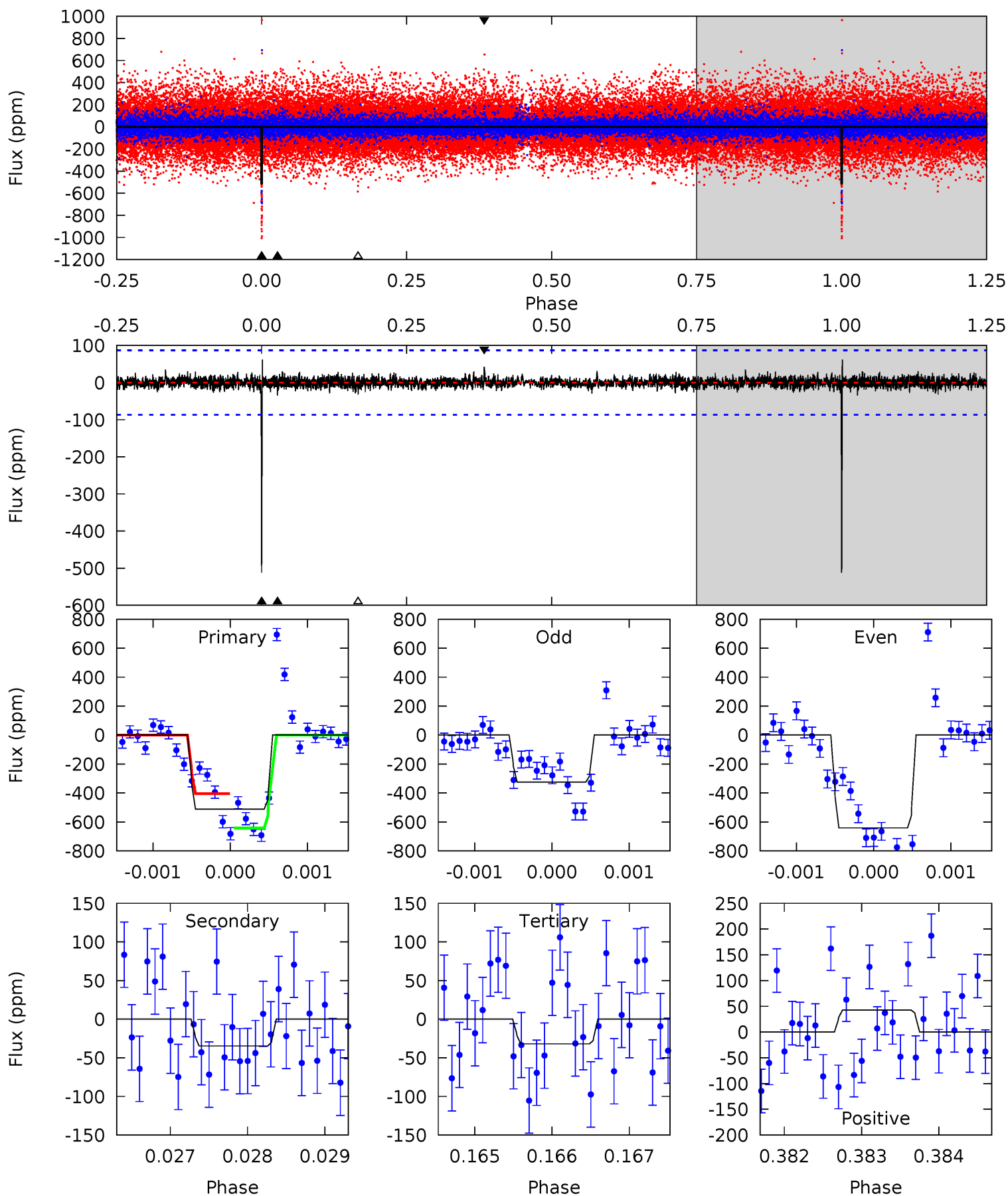
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	12.8	11.9	12.1	5.47	3.31	2.60	0.97	0.81	0.89	0.74	2.68	0.97	0.48	0.52



Alt Model-Shift Uniqueness Test

009268249-01, P = 376.406609 Days, E = 178.575696 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.1	2.18	2.01	2.68	5.45	3.30	0.49	30.1	29.5	0.17	-0.50	10.0	0.86	0.11	0



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-386 ± 30	$5.34^{+3.57}_{-3.07}$	429^{+58}_{-81}	4550^{+1373}_{-688}	8765^{+35378}_{-5796}
Alt.	-35 ± 16	$5.11^{+3.61}_{-2.82}$	430^{+61}_{-69}	3037^{+736}_{-416}	788^{+2887}_{-591}

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

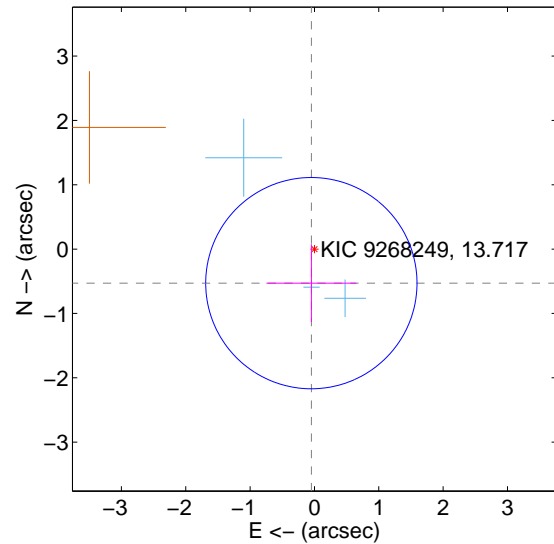
Supplemental centroid analysis for 009268249-01. Kepler magnitude: 13.72. Transit SNR 7.36

There are 3 quarters with good PRF difference image offsets

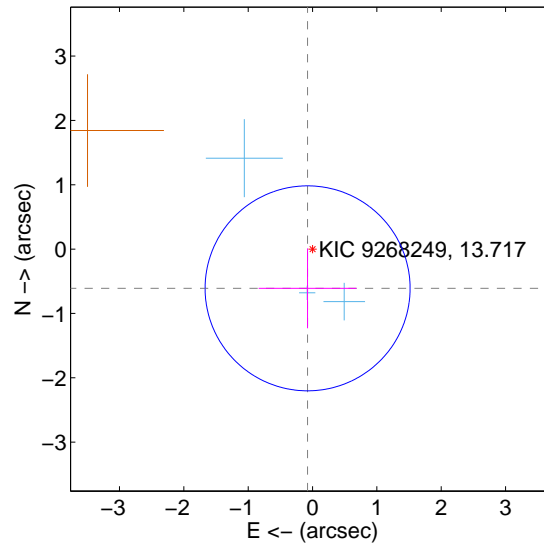
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.531 ± 0.547	0.97	0.048 ± 0.698	-0.529 ± 0.604
PRF-fit source offset from KIC position	0.614 ± 0.531	1.16	0.077 ± 0.760	-0.610 ± 0.622
photometric centroid source offset	1.25 ± 0.63	1.99	1.16 ± 0.63	0.45 ± 0.63

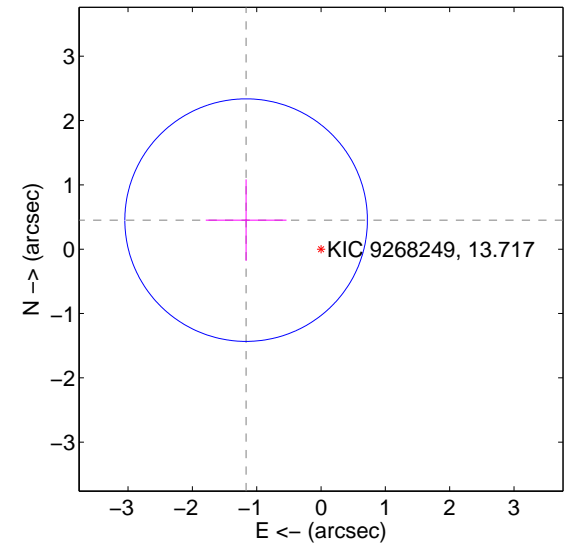
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

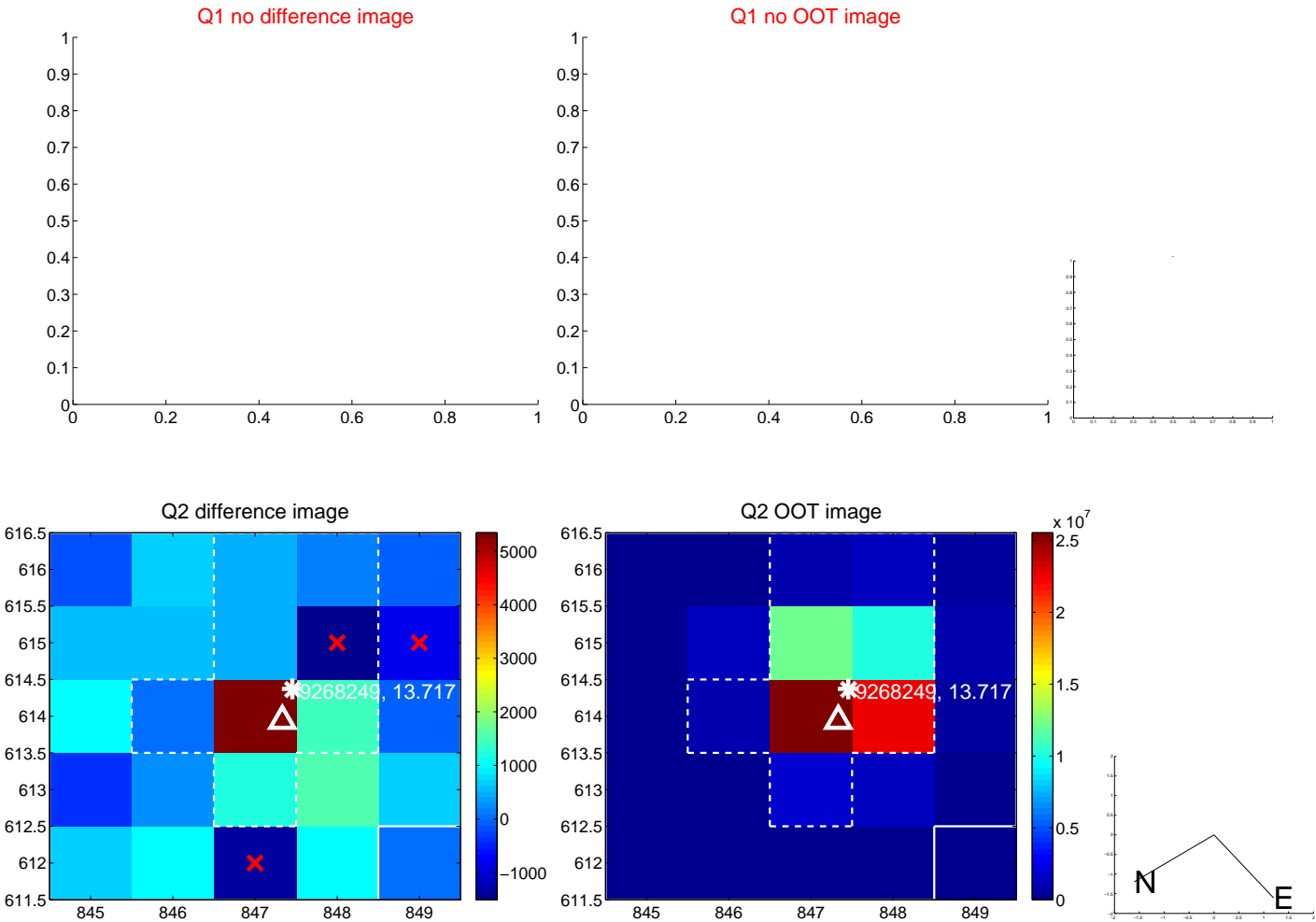


offset from photometric centroids

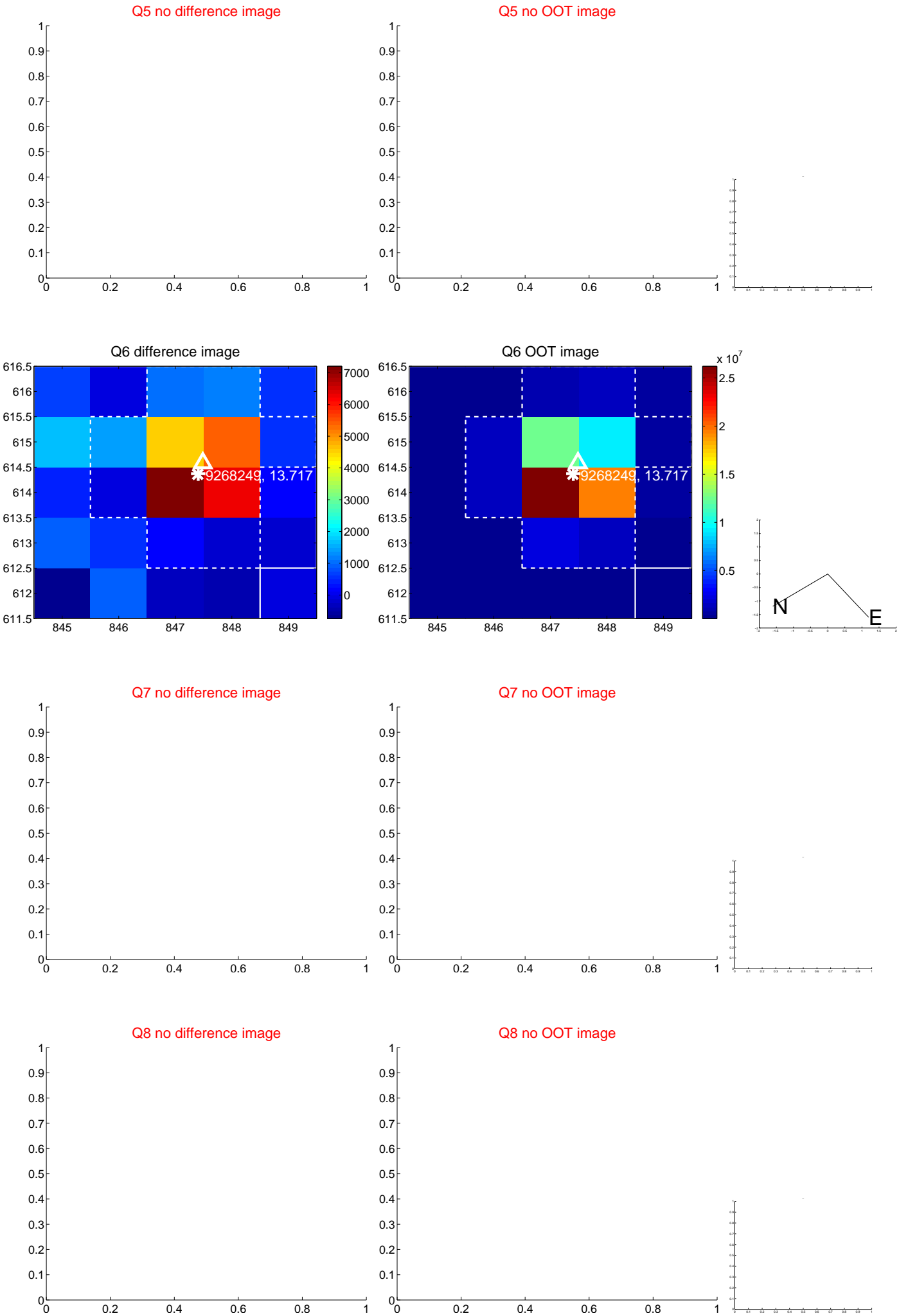


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

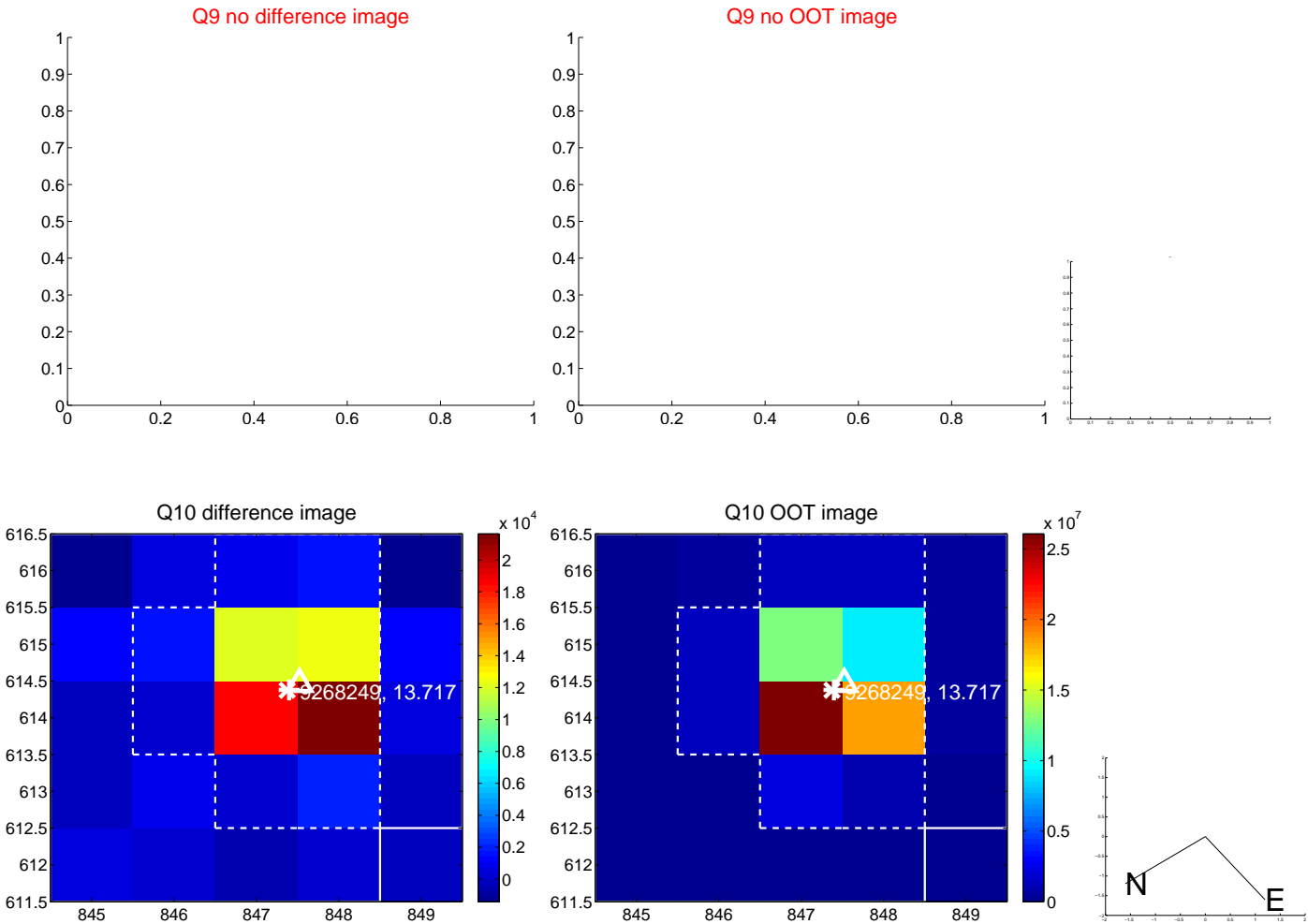
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



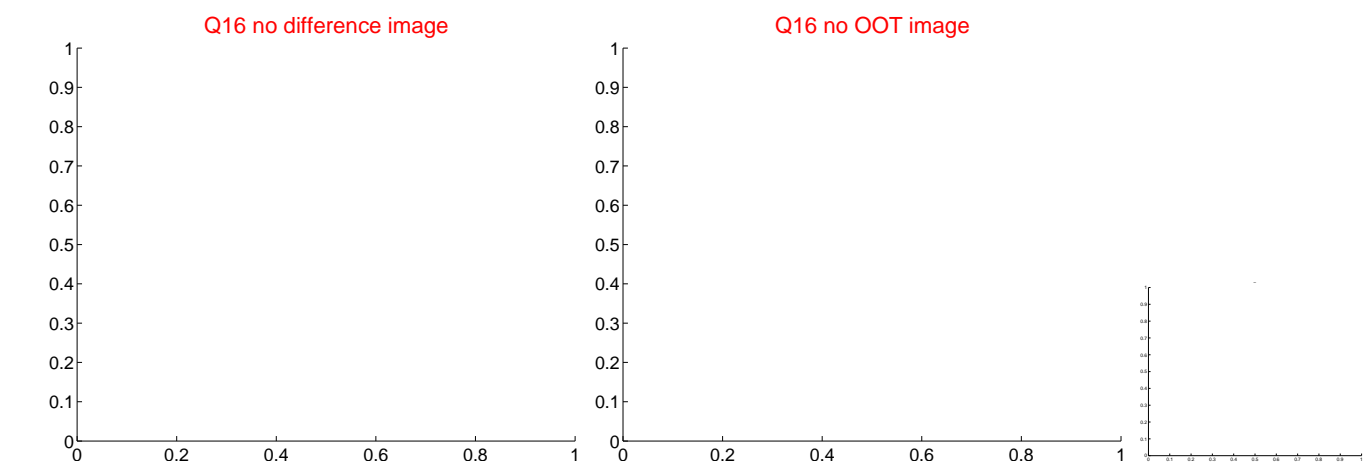
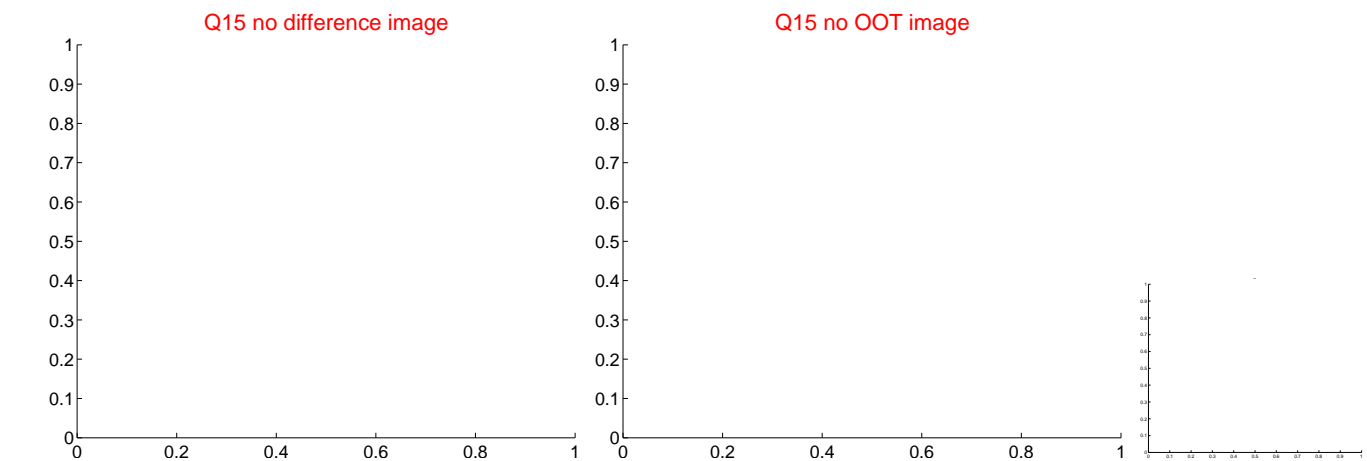
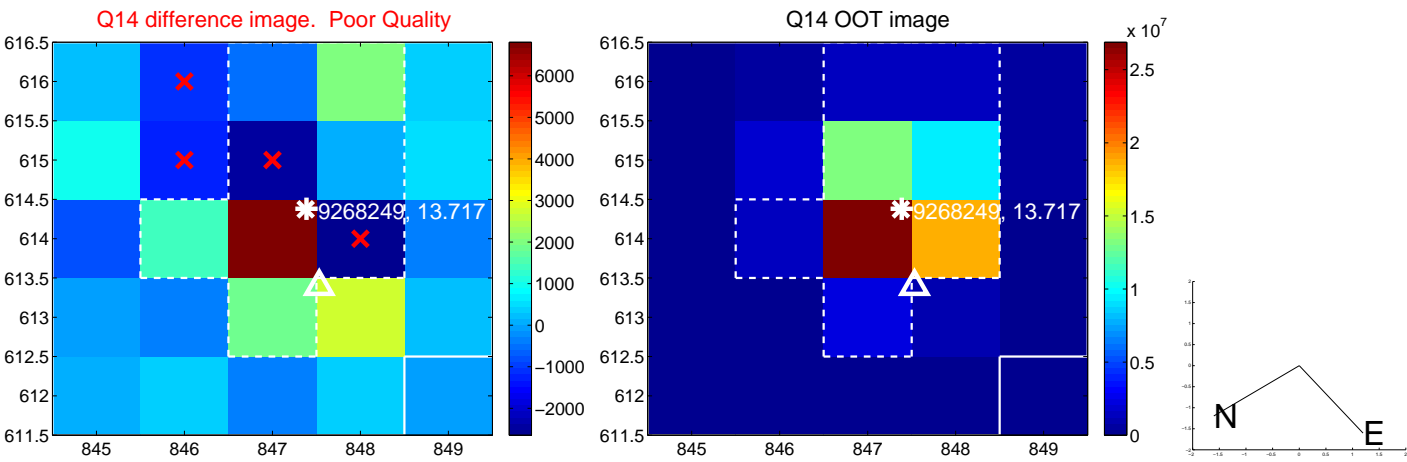
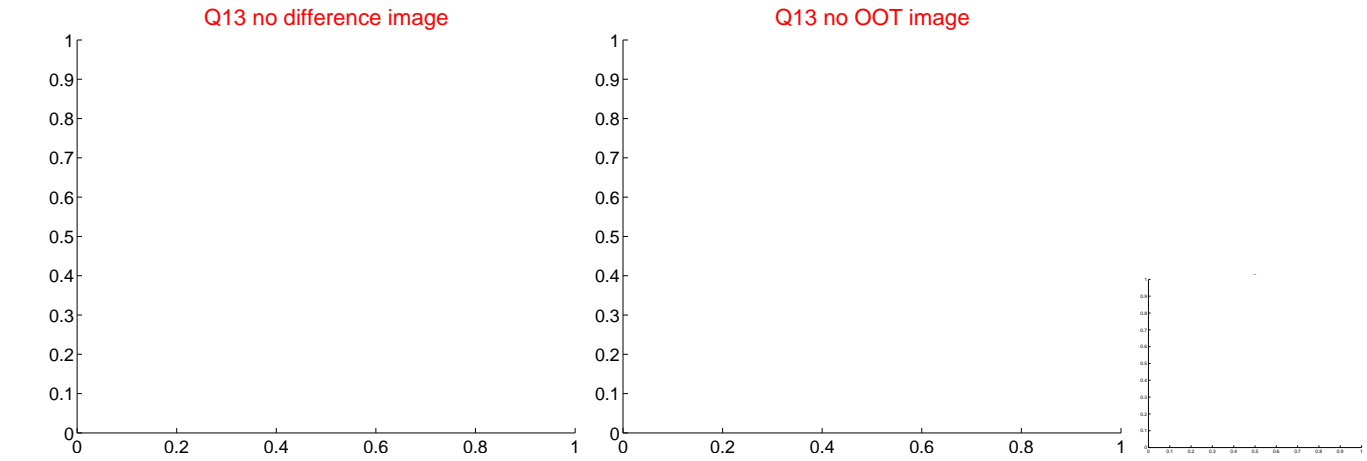
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



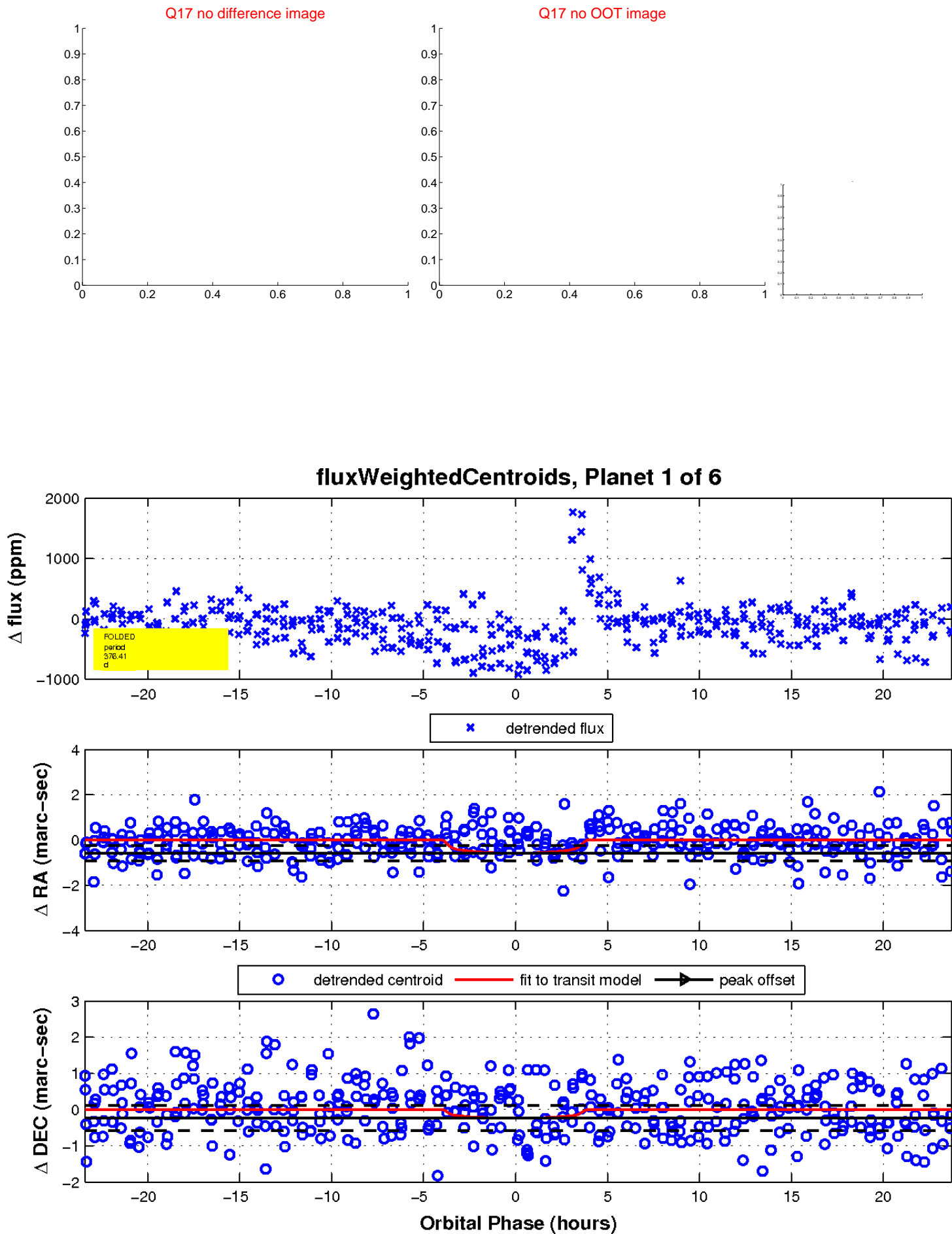
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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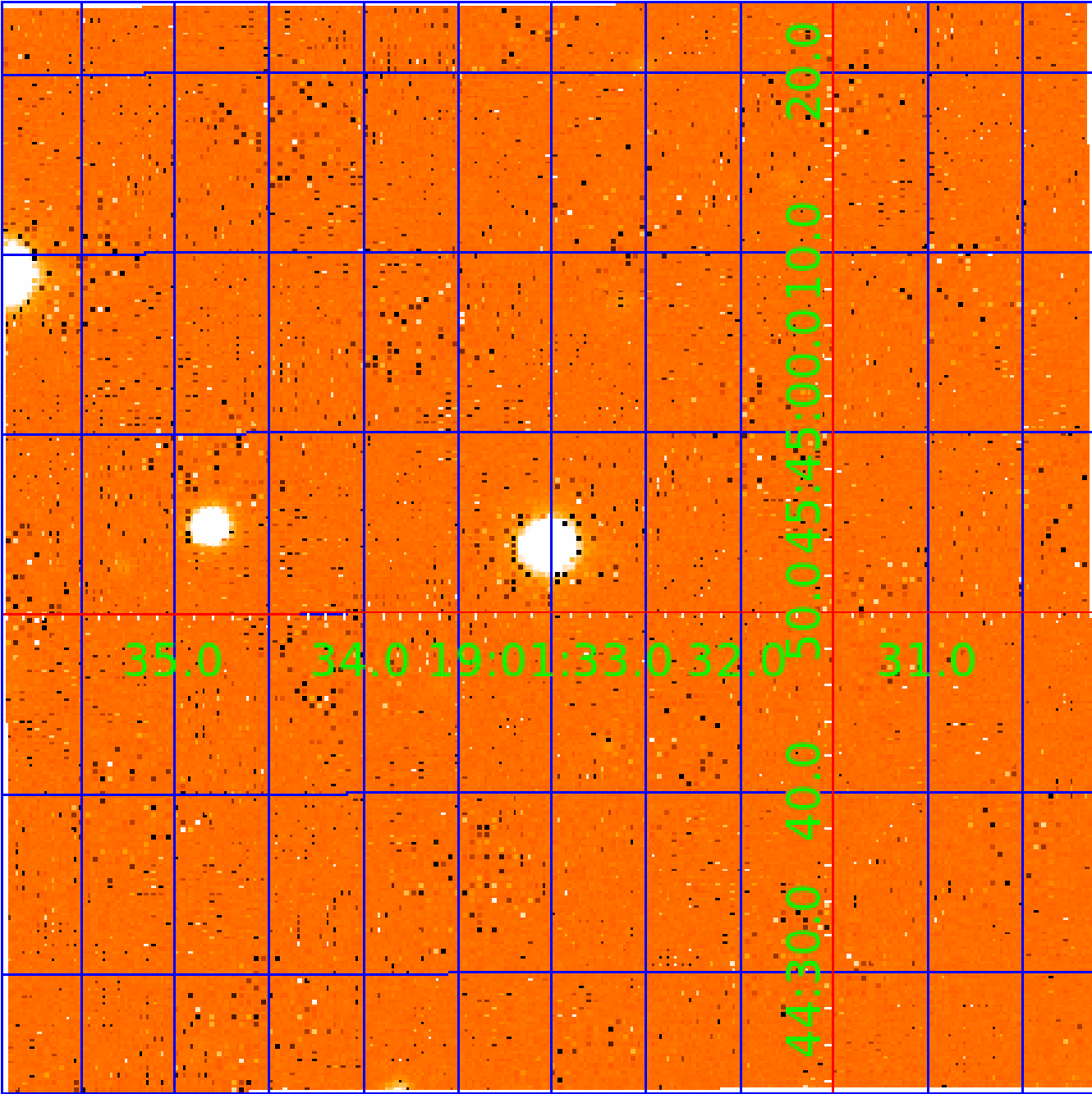


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009268249

Q1-17 DR25 TCE Parameters

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009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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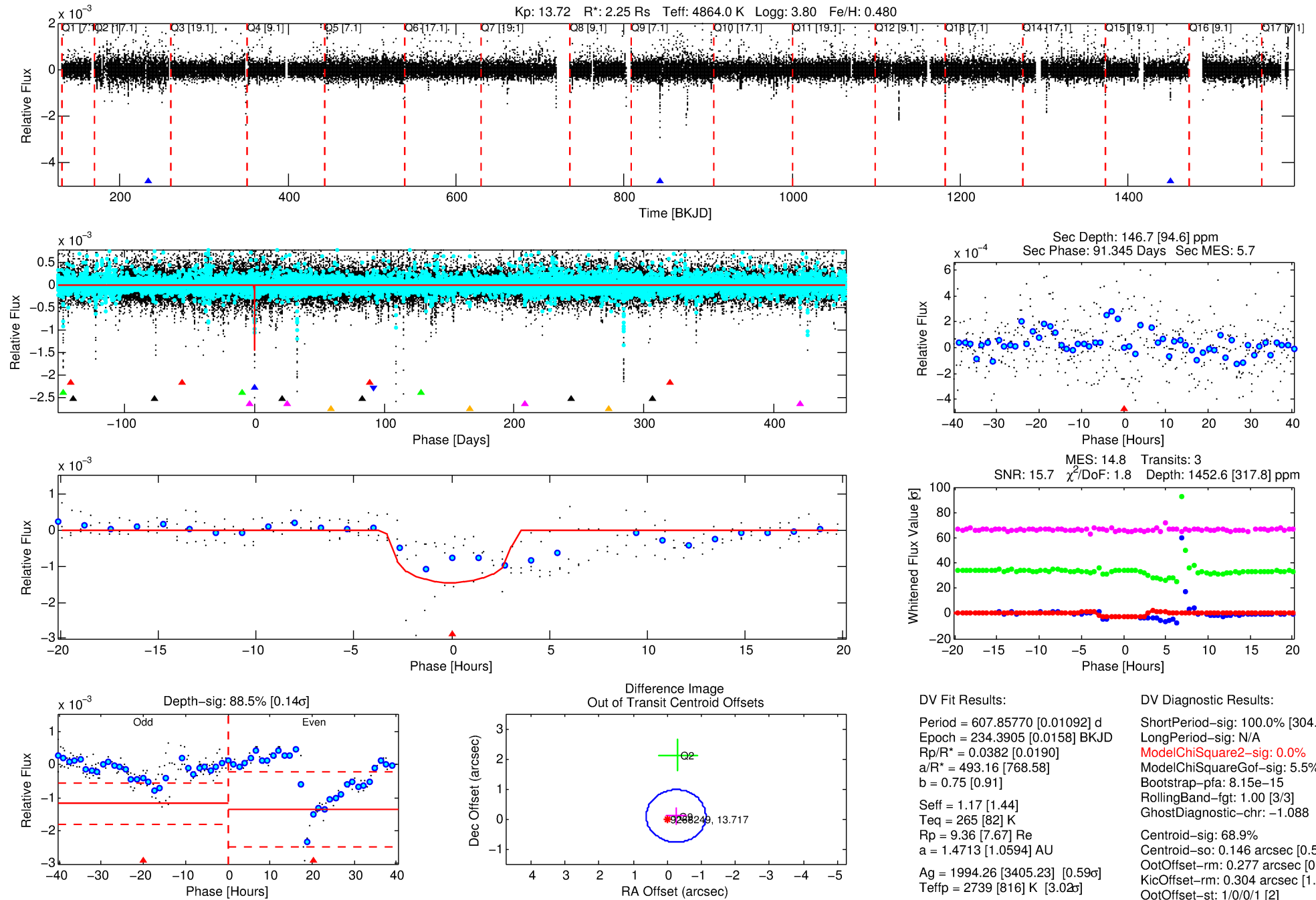
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-02

No Significant Match Found

DV One-Page Summary

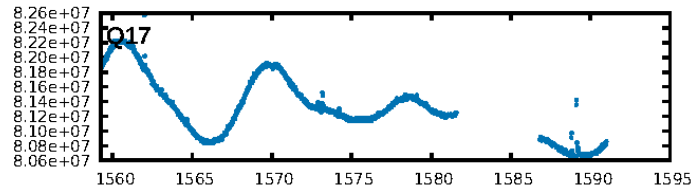
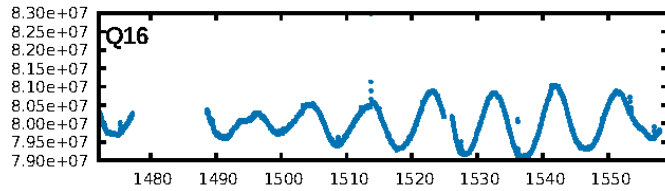
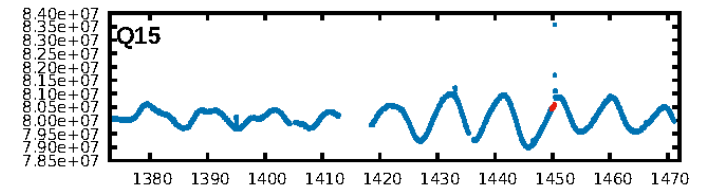
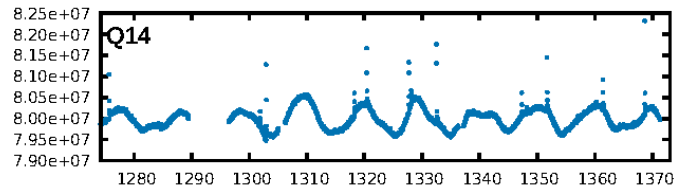
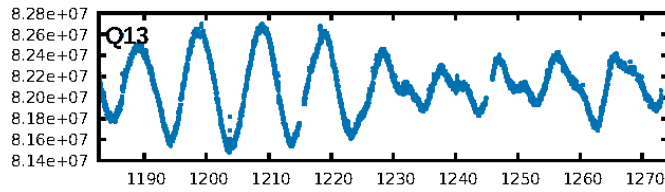
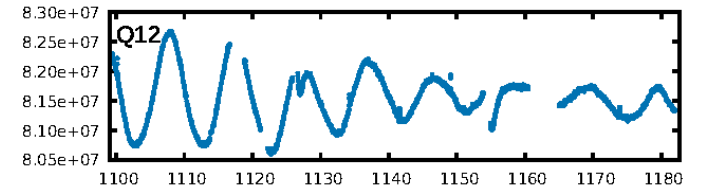
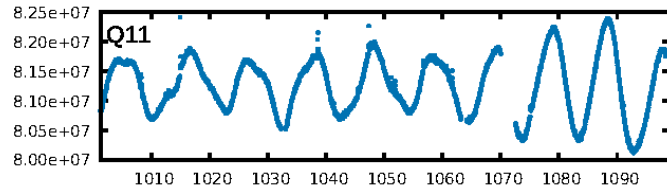
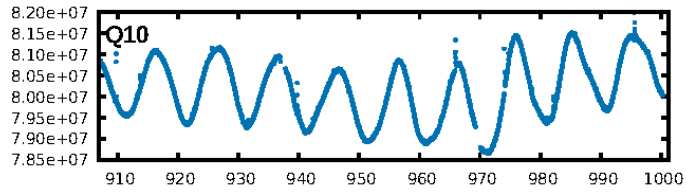
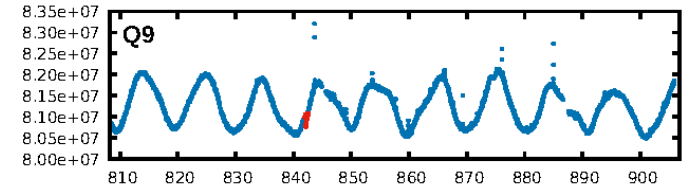
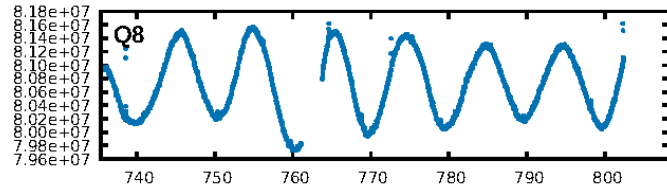
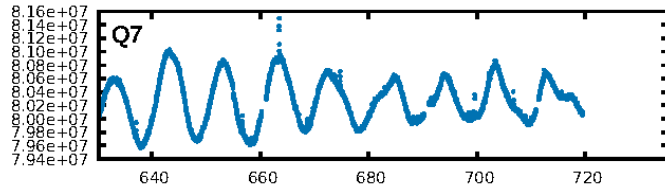
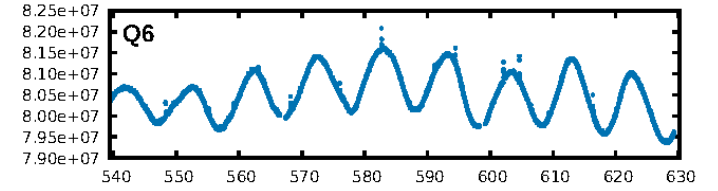
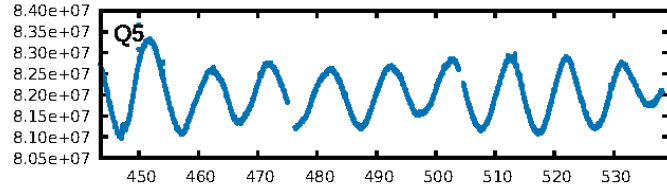
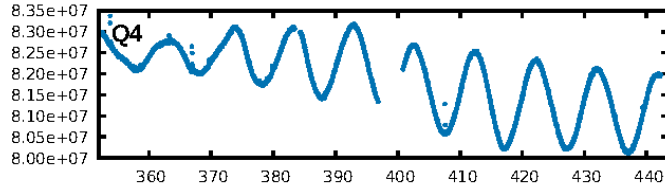
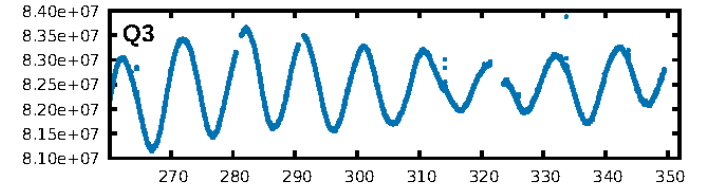
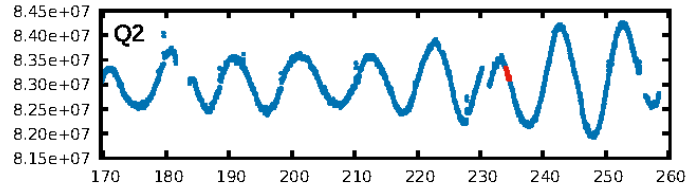
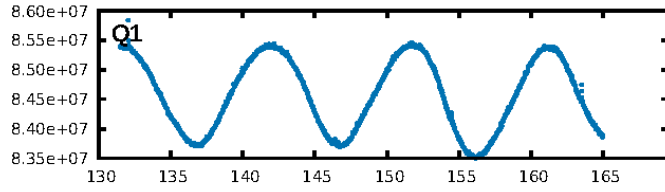
KIC: 9268249 Candidate: 2 of 6 Period: 607.858 d



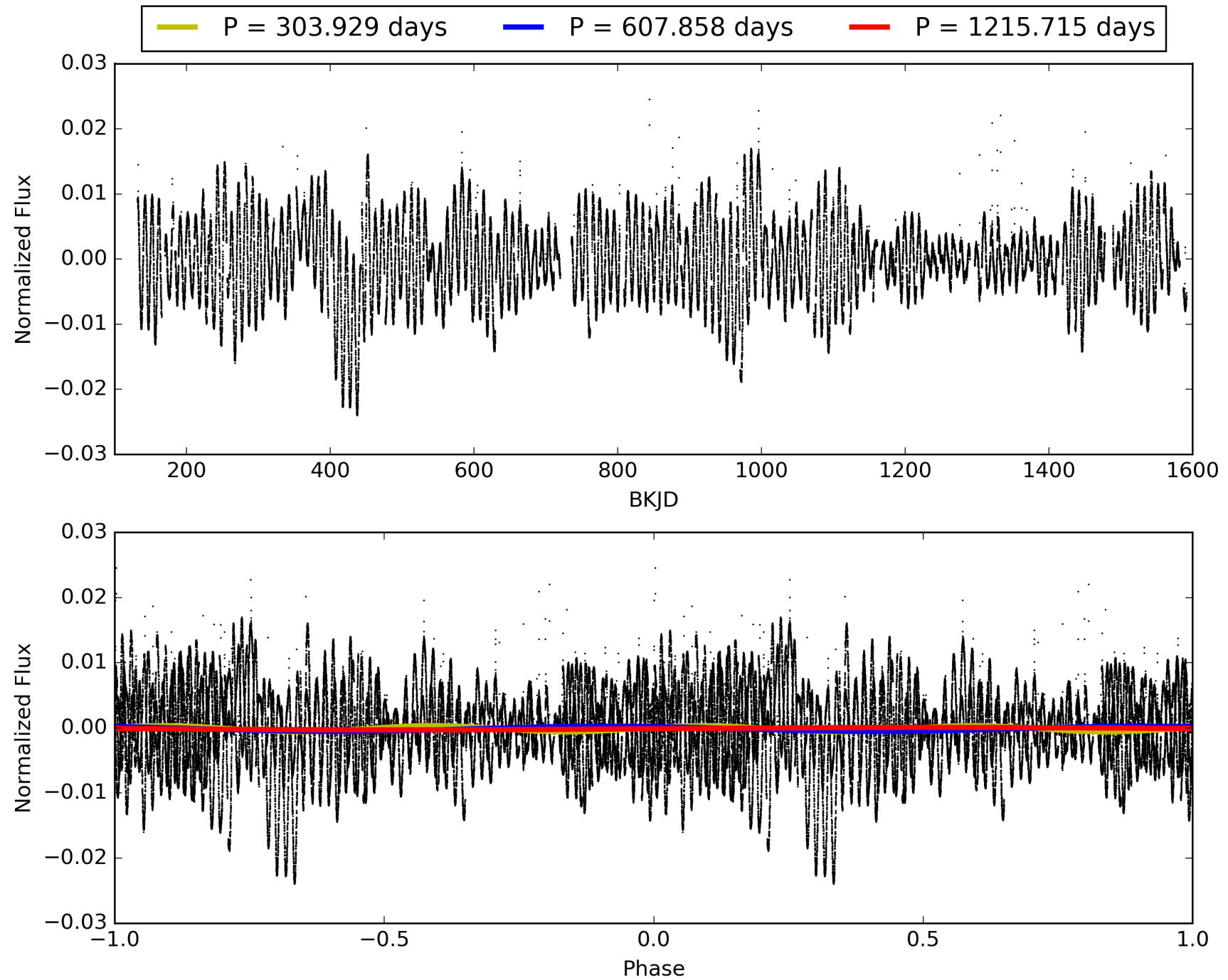
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:40:48 Z

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

TCE 009268249-02, PDC Light Curves

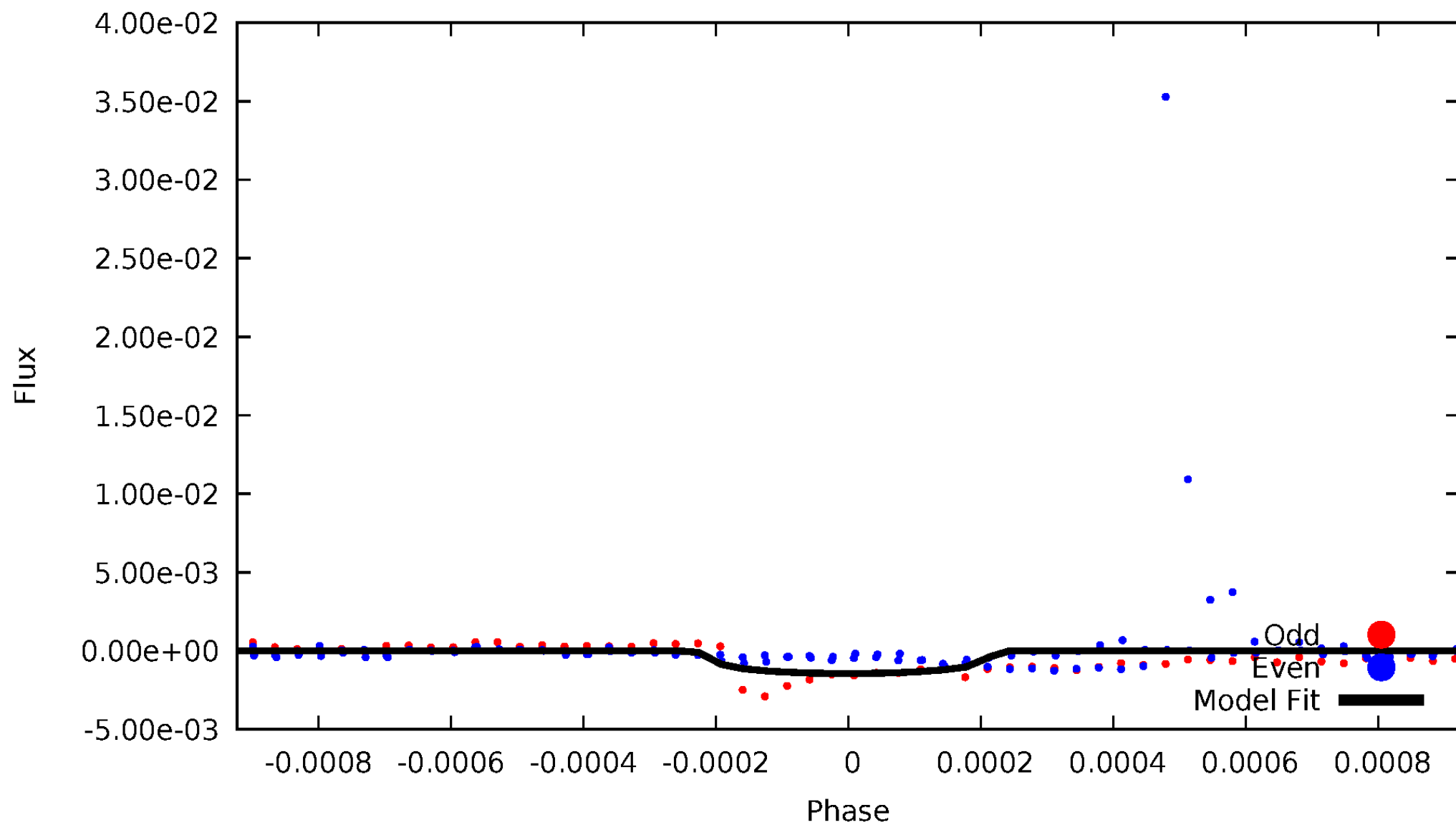


TCE 009268249-02



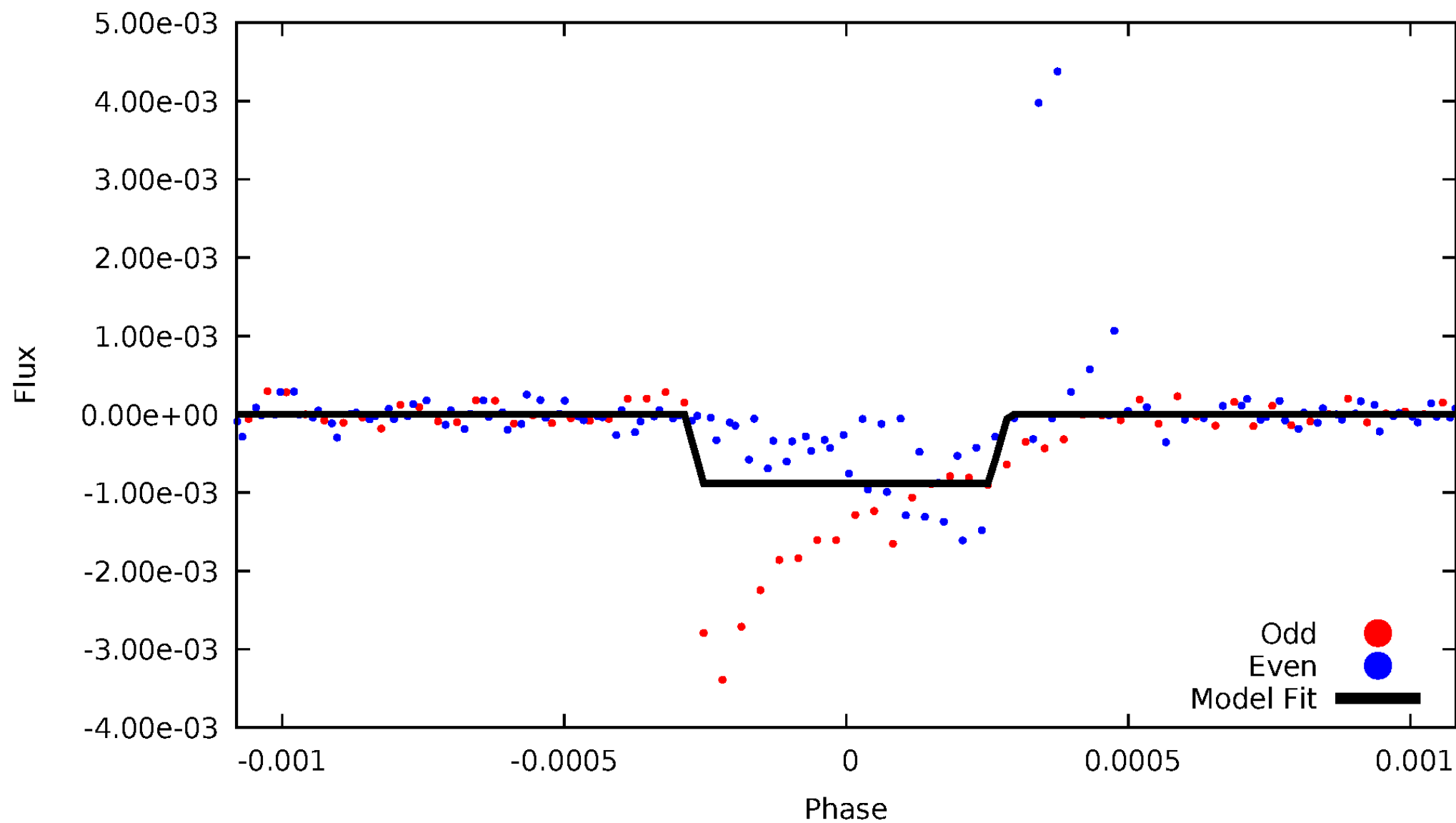
DV Odd/Even

TCE 009268249-02



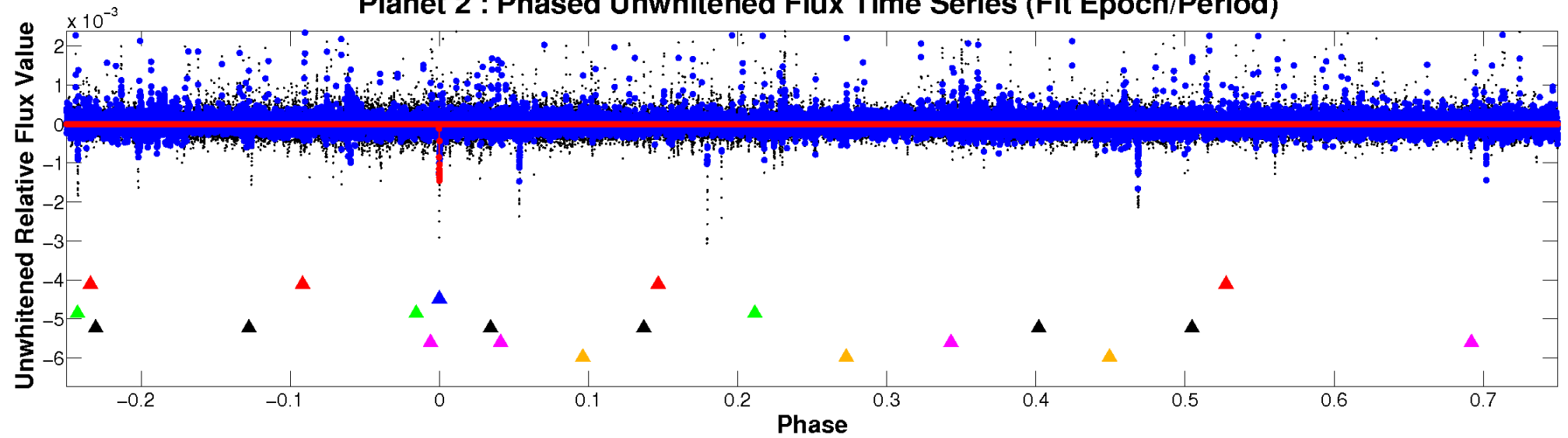
ALT Odd/Even

TCE 009268249-02

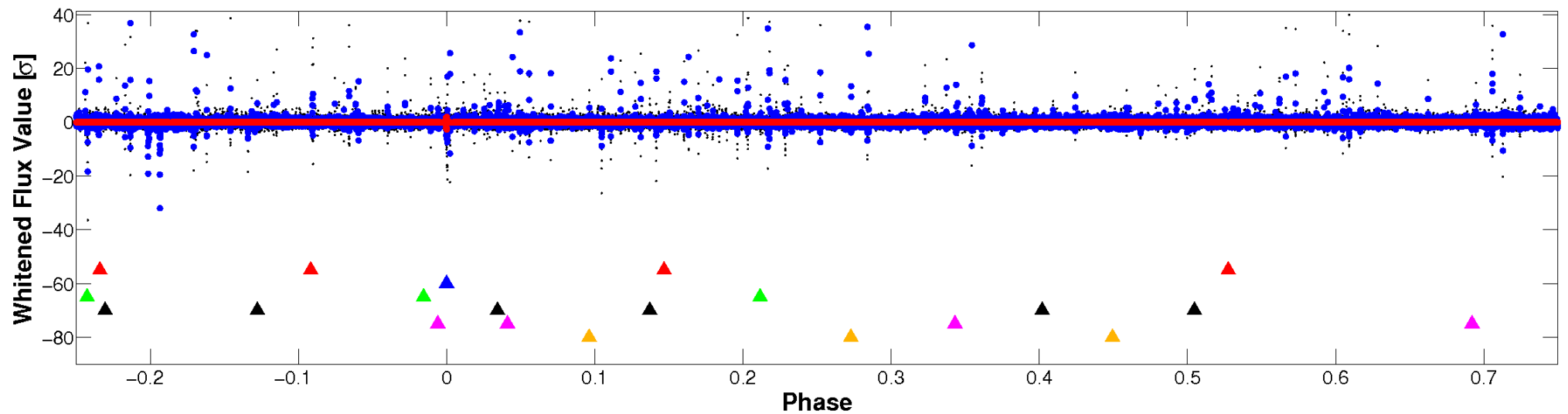


Non-Whitened Vs. Whitened Light Curve

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

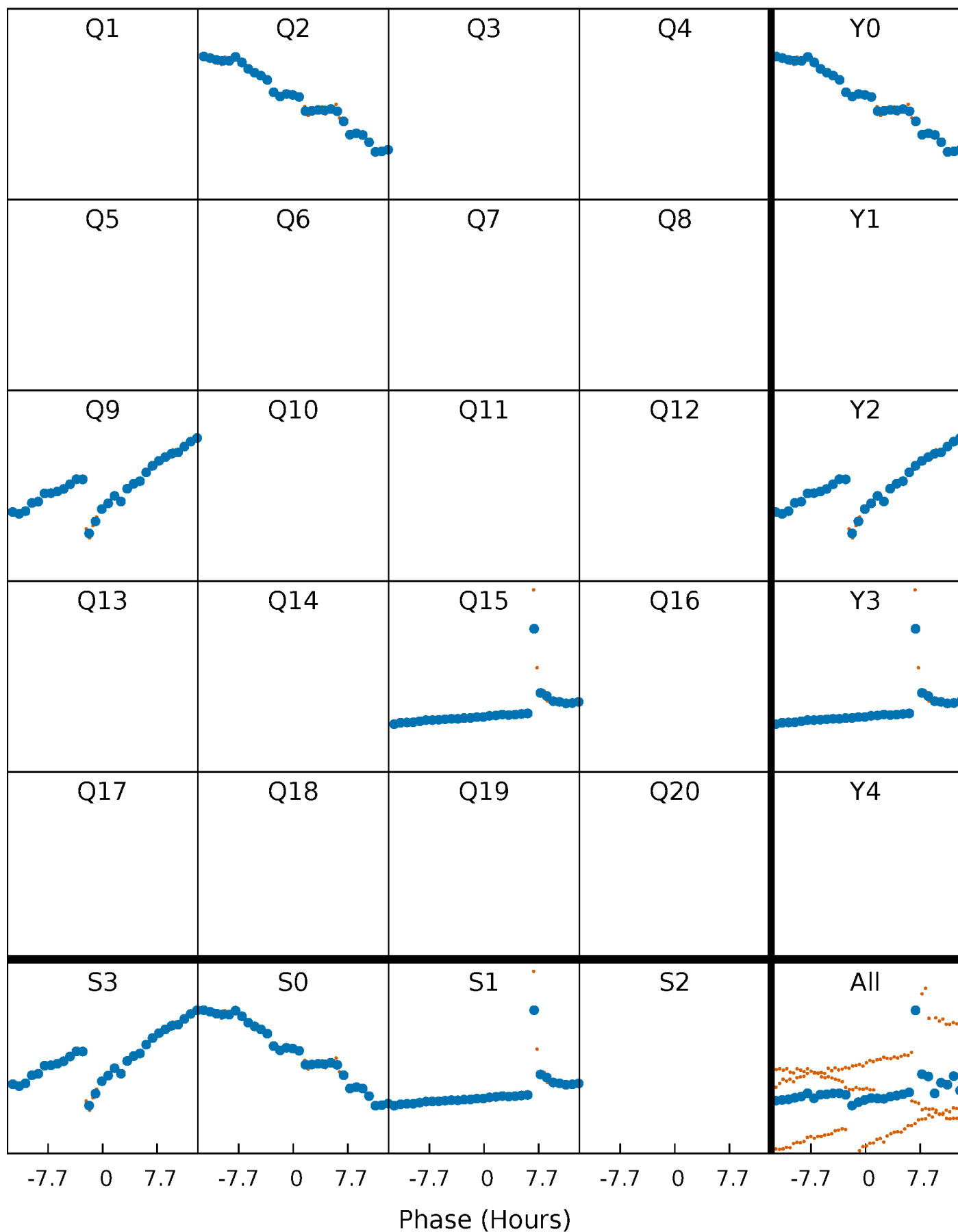


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



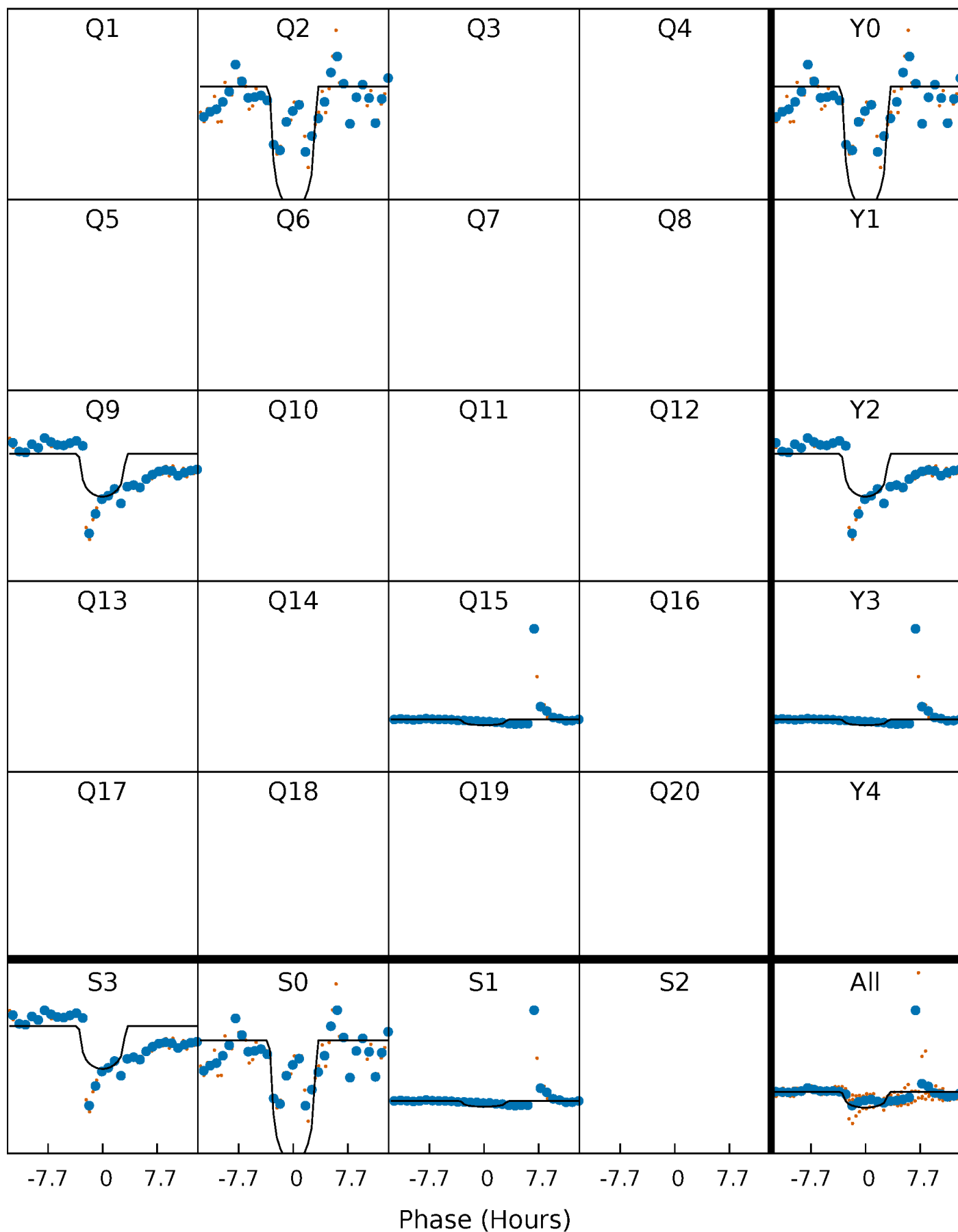
PDC Quarter-Phased Transit Curves

TCE 009268249-02 P=607.857696 Days $T_0=234.390491$ (BKJD)



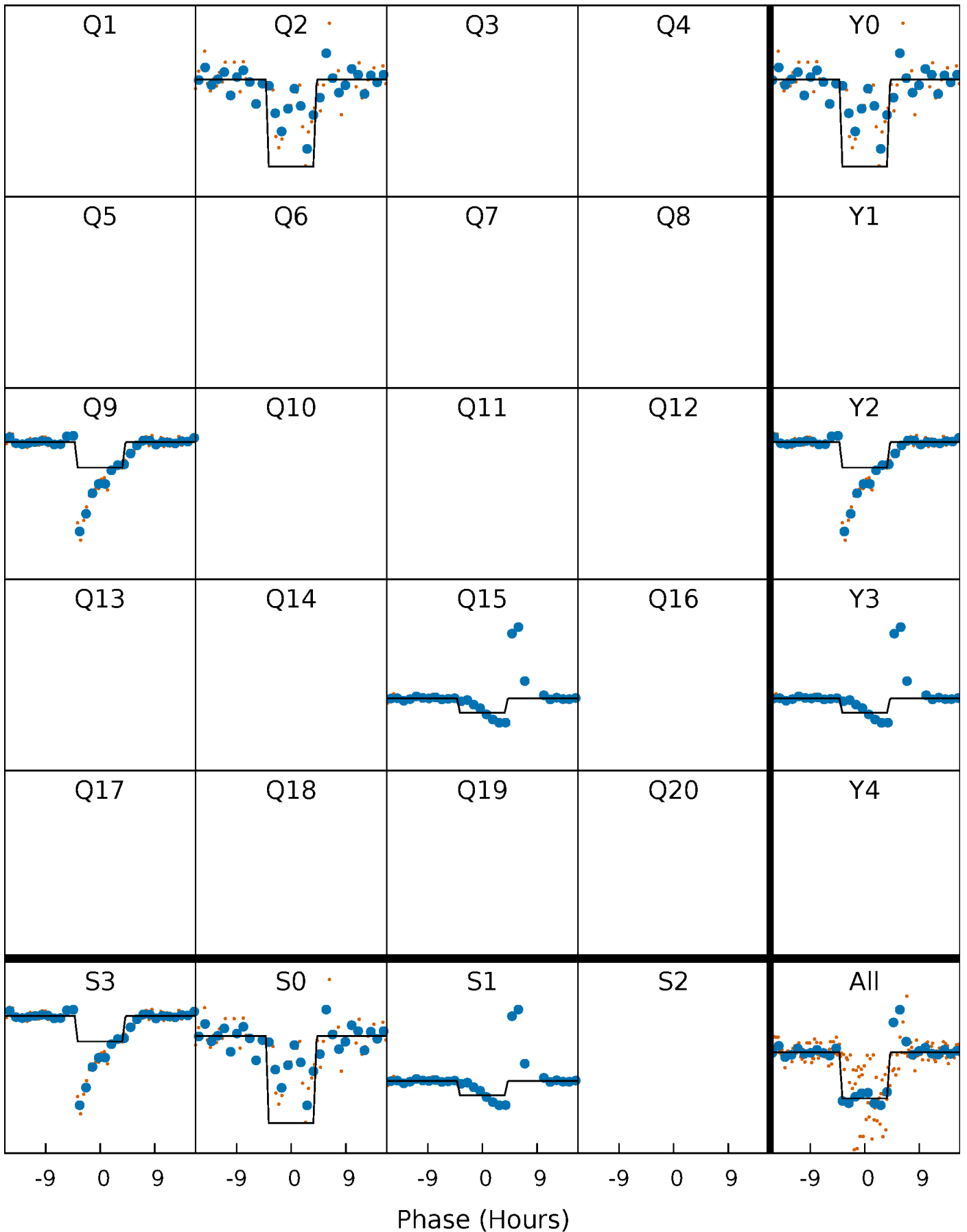
DV Quarter-Phased Transit Curves

TCE 009268249-02 $P=607.857696$ Days $T_0=234.390491$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

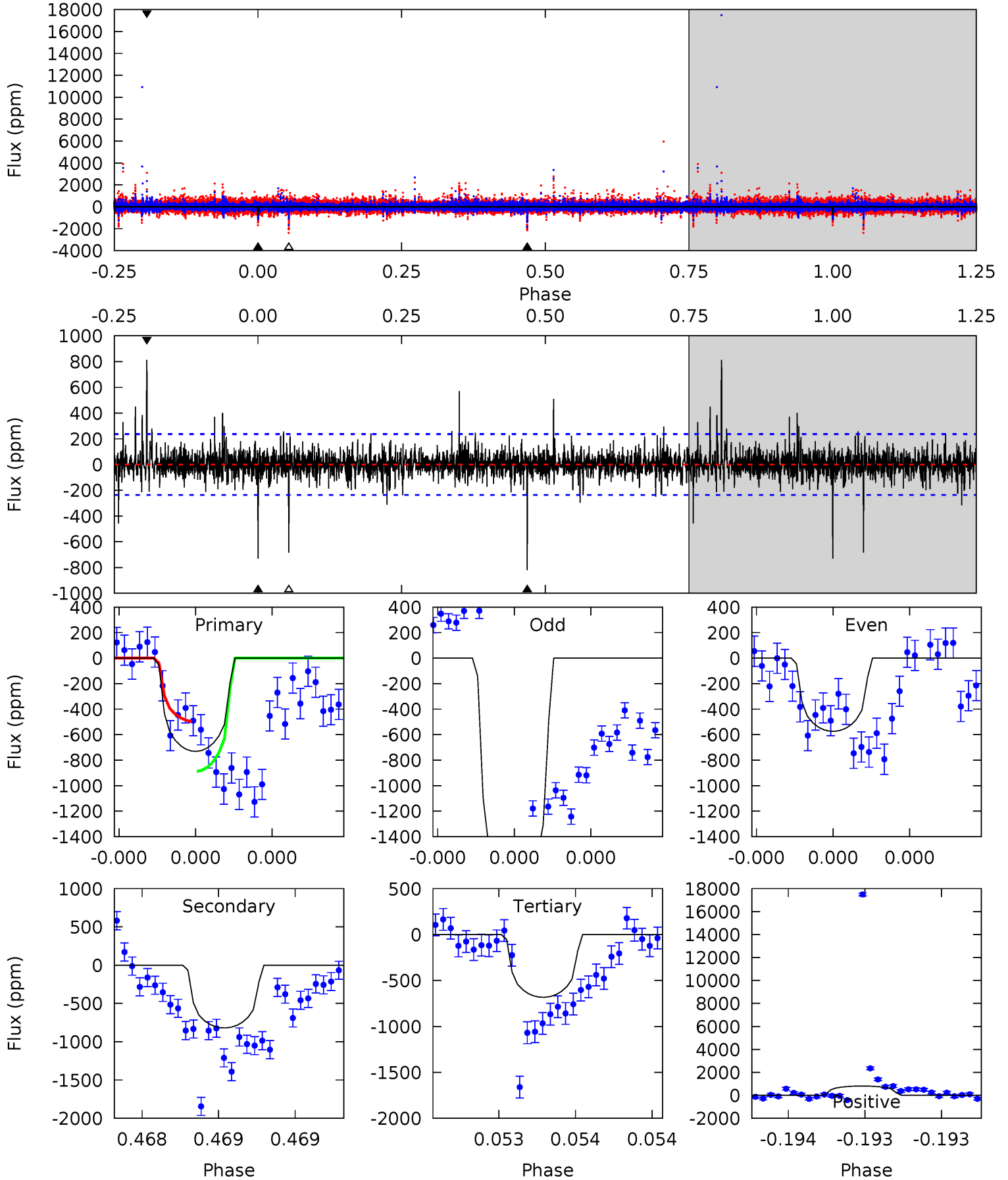
TCE 009268249-02 P=607.925655 Days $T_0=234.379320$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-02, P = 607.857696 Days, E = 234.390491 Days

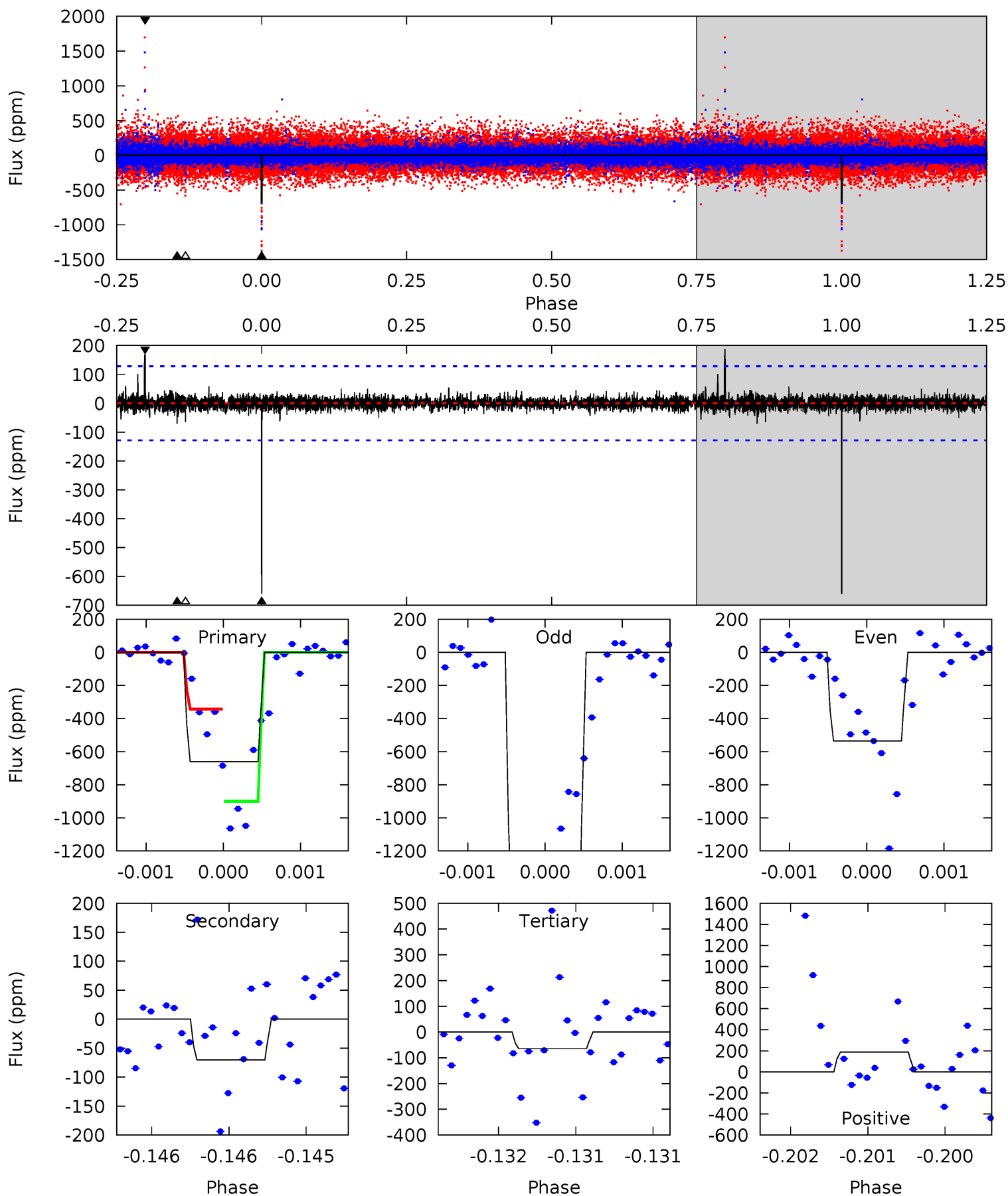
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.3	19.4	16.1	19.2	5.58	3.50	1.66	1.13	-1.90	3.22	0.18	12.6	1.69	0.50	4.45



Alt Model-Shift Uniqueness Test

009268249-02, P = 607.925655 Days, E = 234.379320 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.6	3.04	2.79	8.13	5.55	3.45	0.52	25.8	20.5	0.26	-5.08	24.1	1.21	0.22	11.8



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-819 ± 42	$8.82^{+6.07}_{-4.69}$	370^{+48}_{-68}	4353^{+1257}_{-604}	12427^{+43168}_{-8006}
Alt.	-70 ± 23	$7.08^{+5.37}_{-4.06}$	369^{+53}_{-66}	3083^{+828}_{-374}	1501^{+7078}_{-1006}

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

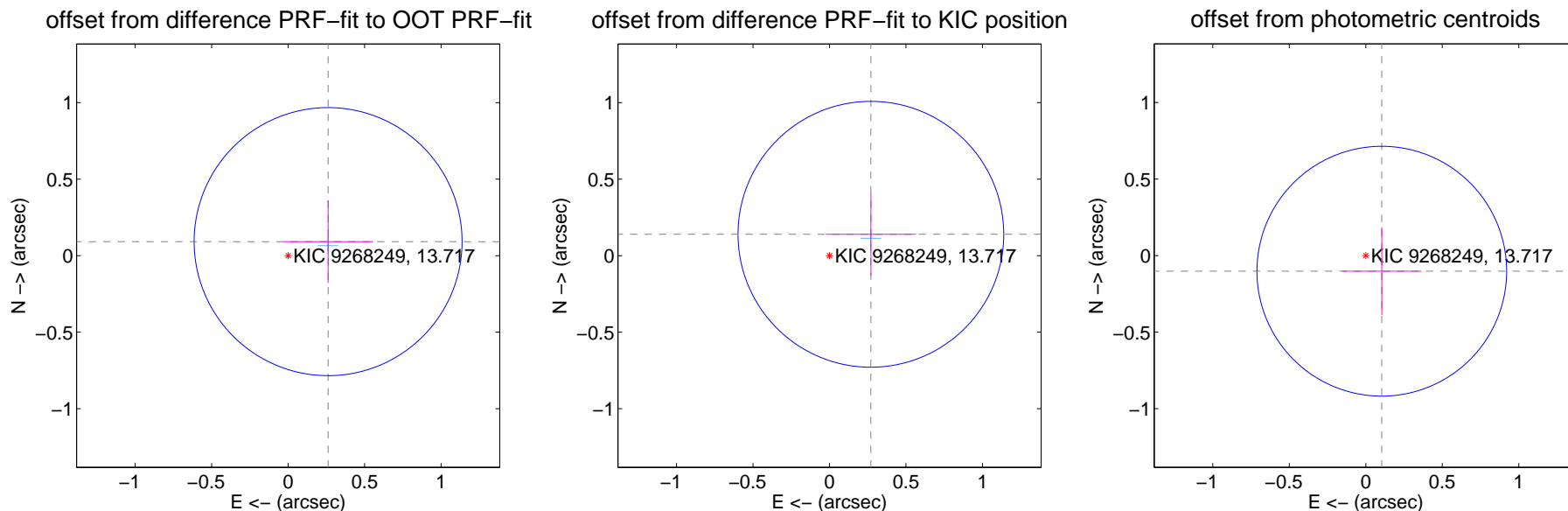
DV Centroid Data

Supplemental centroid analysis for 009268249-02. Kepler magnitude: 13.72. Transit SNR 15.70

There are 2 quarters with good PRF difference image offsets

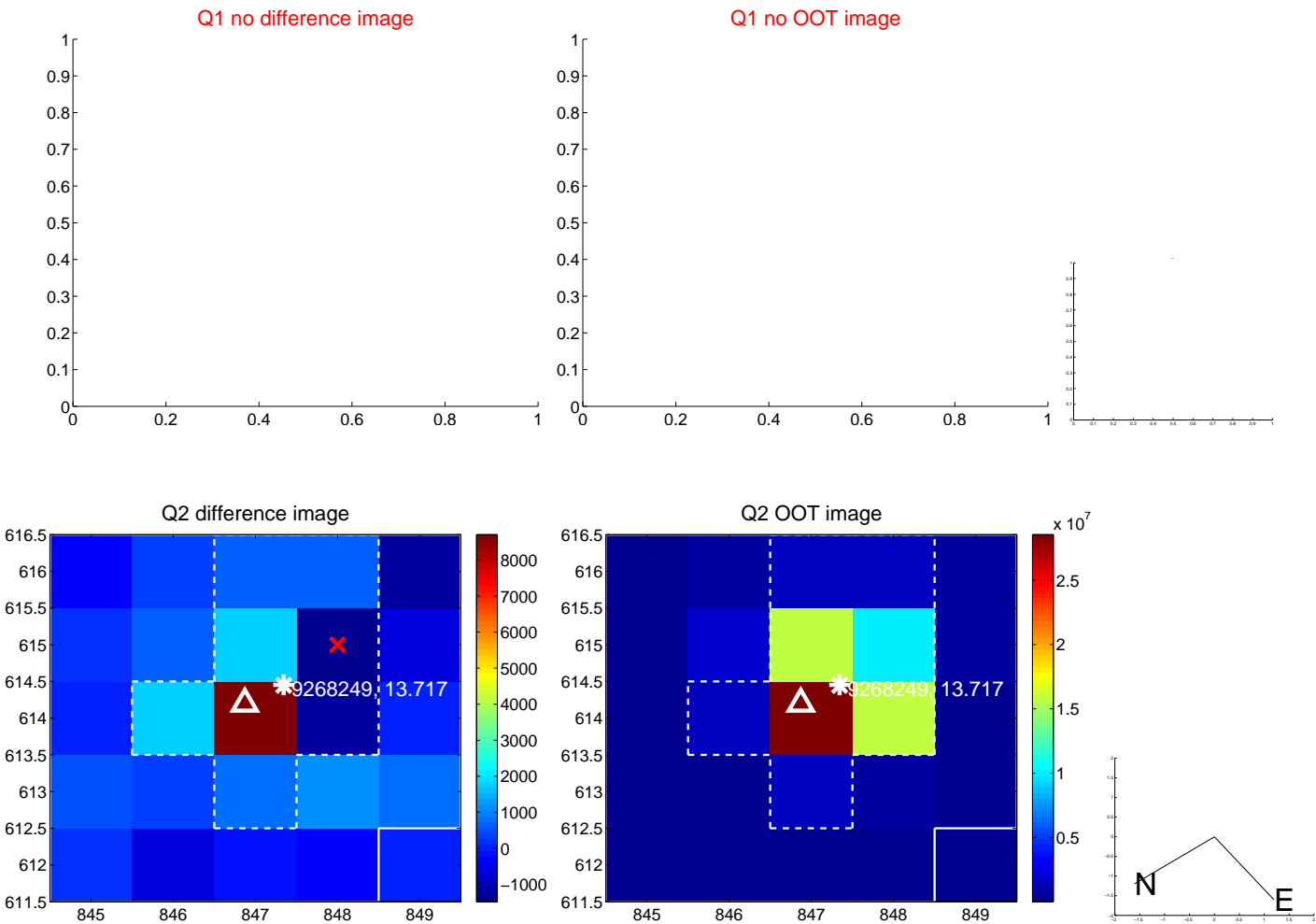
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.277 ± 0.292	0.95	-0.261 ± 0.294	0.092 ± 0.270
PRF-fit source offset from KIC position	0.304 ± 0.289	1.05	-0.271 ± 0.294	0.140 ± 0.270
photometric centroid source offset	0.15 ± 0.27	0.54	-0.10 ± 0.26	-0.10 ± 0.29



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.

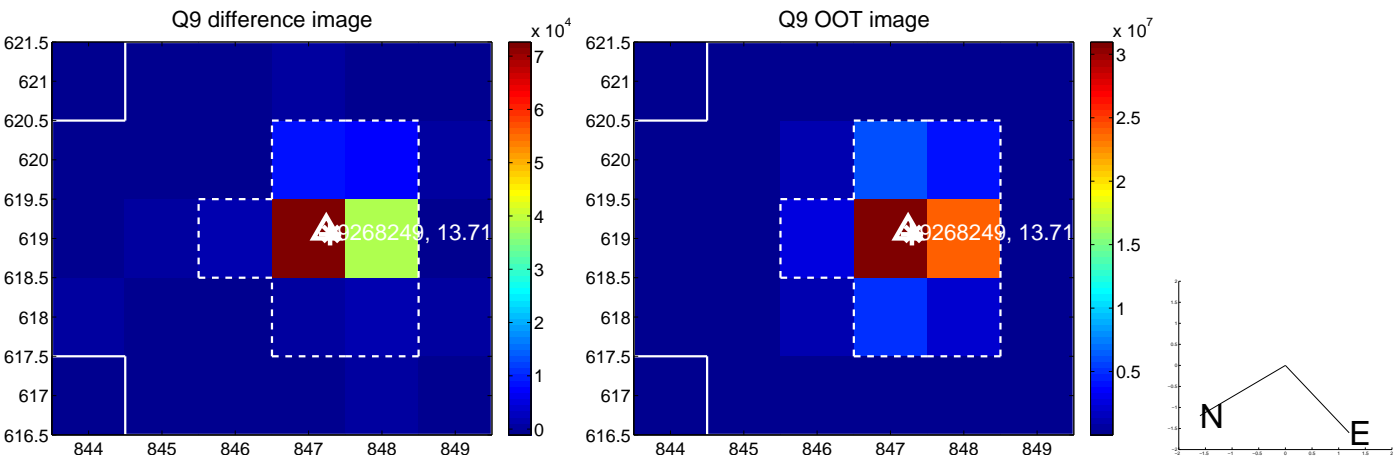
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



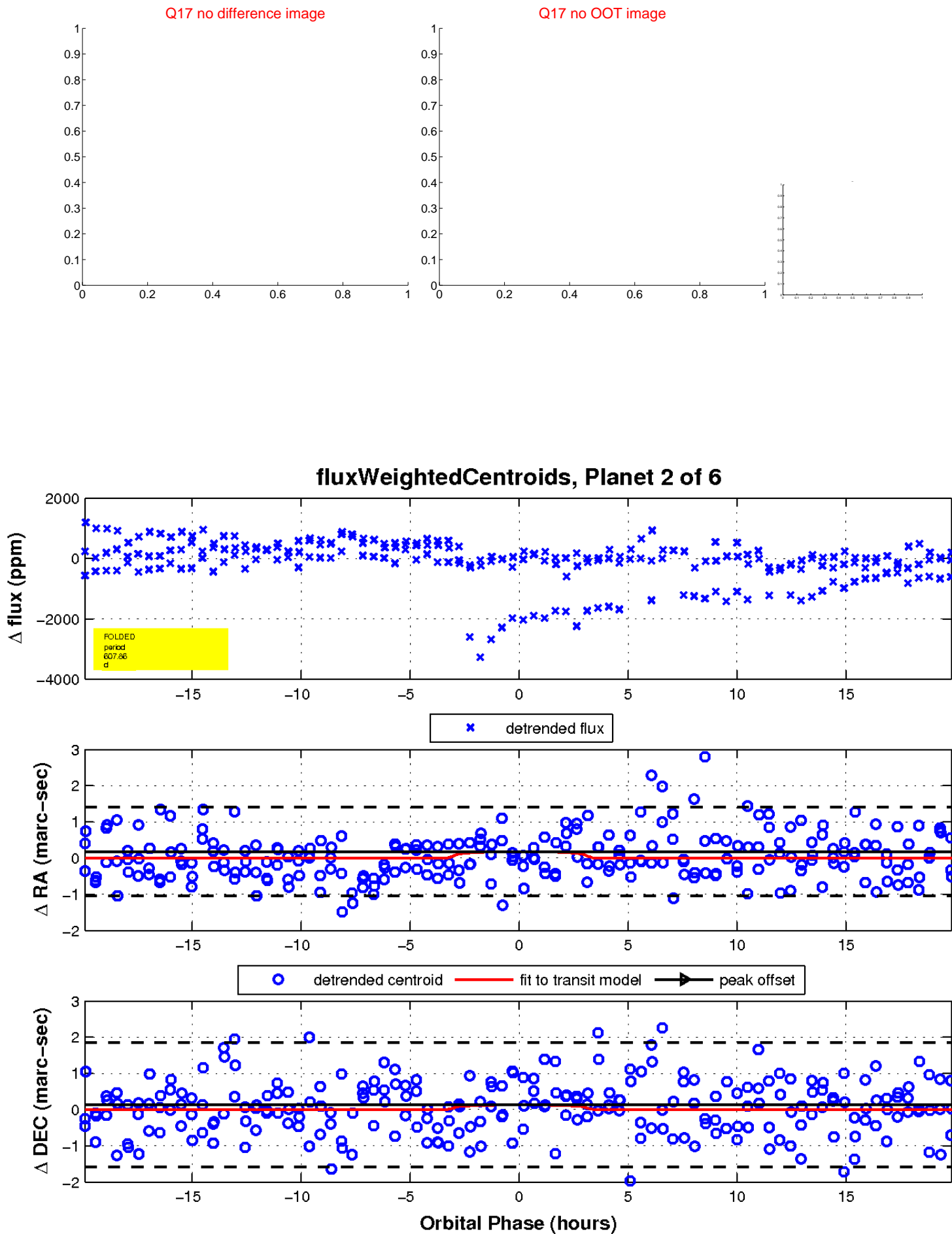
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

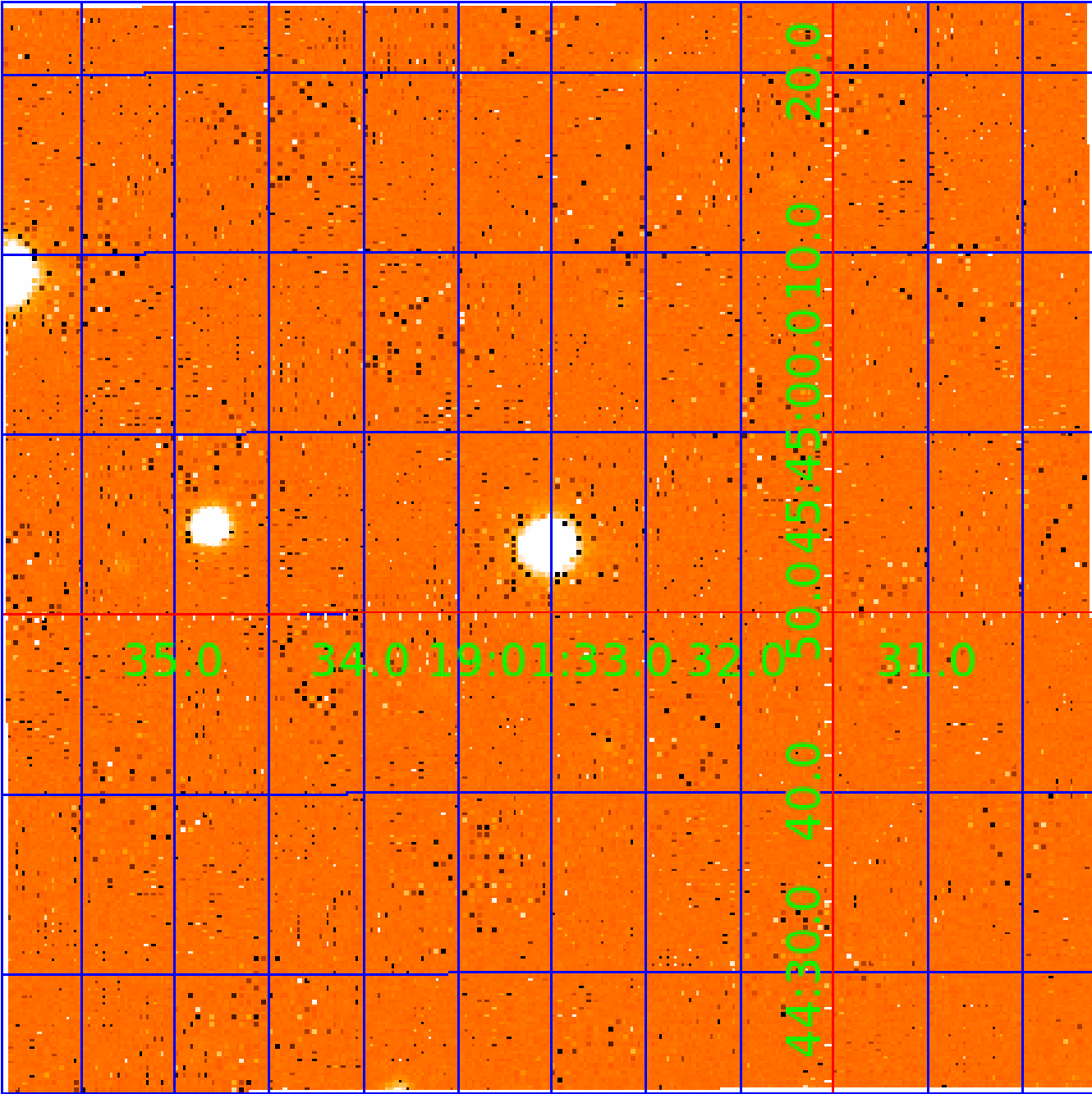


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009268249

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})
009268249-01	OBS	No	376.408585	178.644108	515.7	7.907	11.8	7.4	2.25	4864	5.79	2.21
009268249-02	OBS	No	607.857696	234.390491	1452.6	6.729	14.8	15.7	2.25	4864	9.36	1.17
009268249-03	OBS	No	469.820098	362.986560	283.7	4.441	10.8	3.6	2.25	4864	4.92	1.65
009268249-04	OBS	No	223.441539	255.273241	499.2	2.964	10.5	9.1	2.25	4864	5.45	4.43
009268249-05	OBS	No	395.713443	259.368943	428.8	4.819	9.1	6.8	2.25	4864	5.55	2.07
009268249-06	OBS	No	500.503980	507.579570	560.7	5.138	11.5	6.2	2.25	4864	5.78	1.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009268249-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS
009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

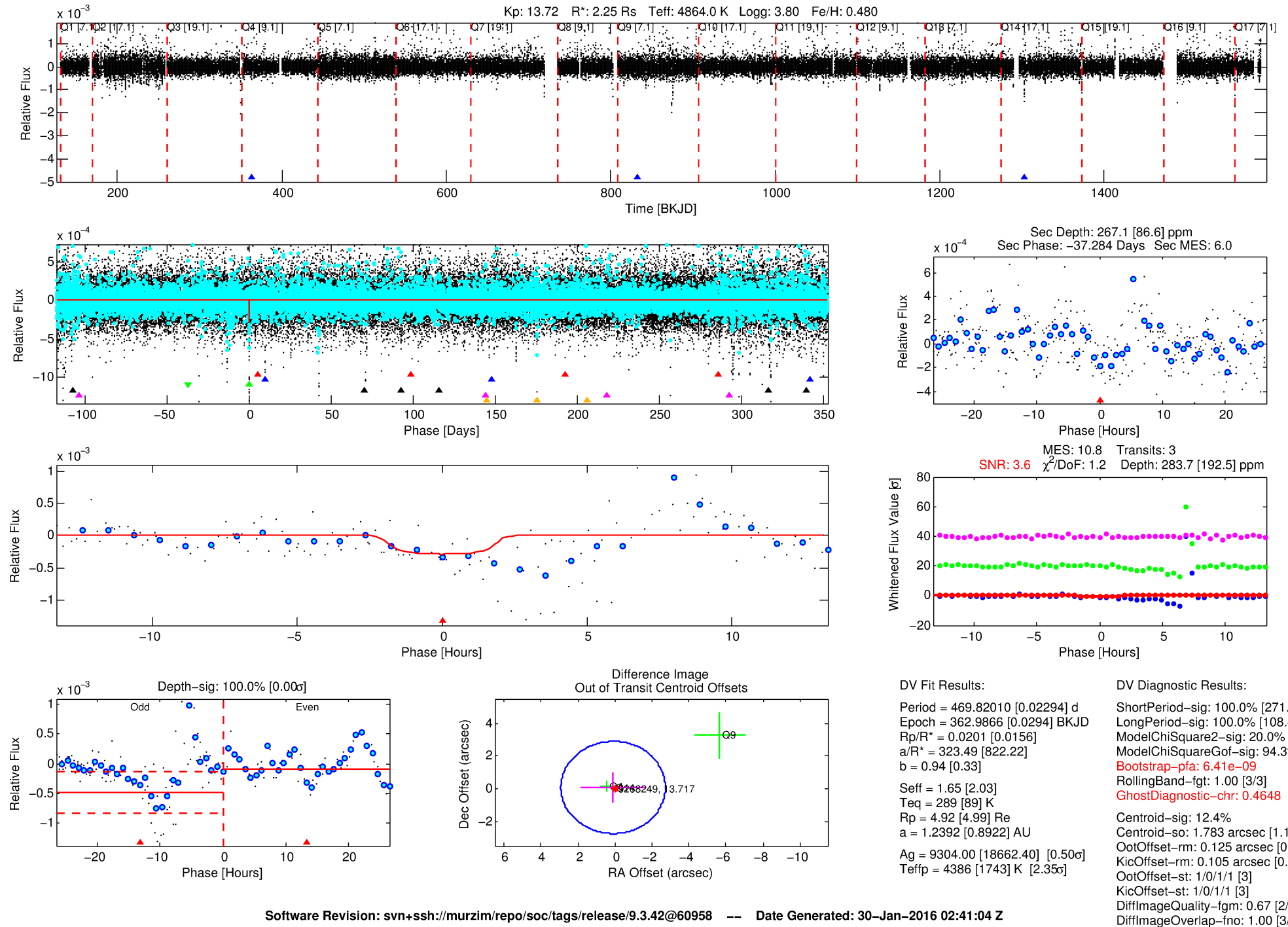
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-03

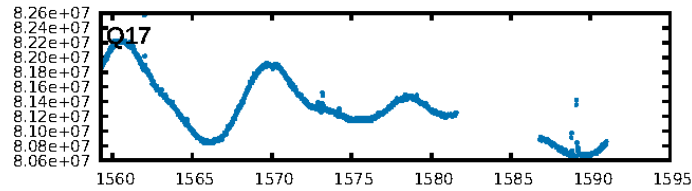
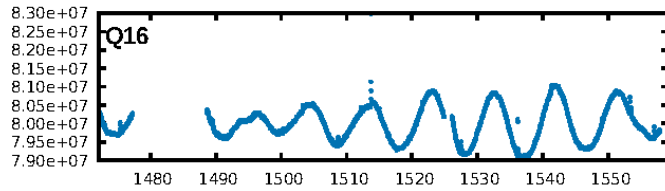
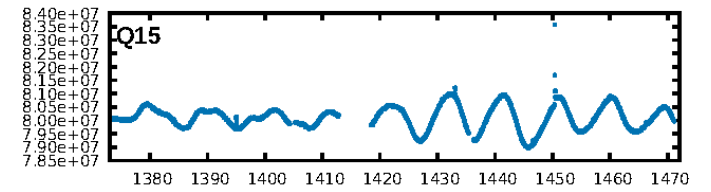
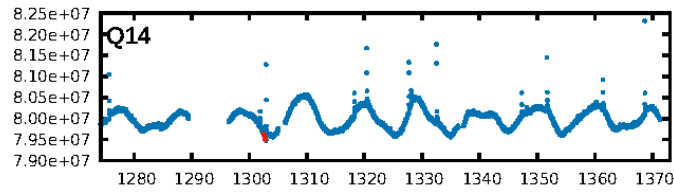
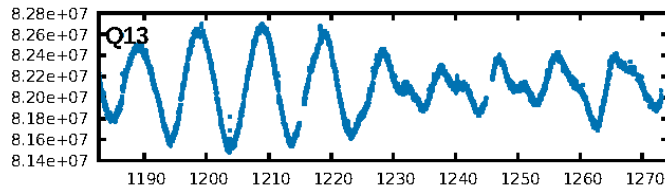
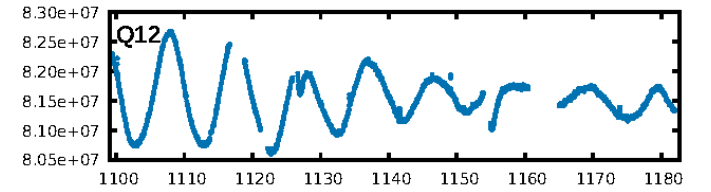
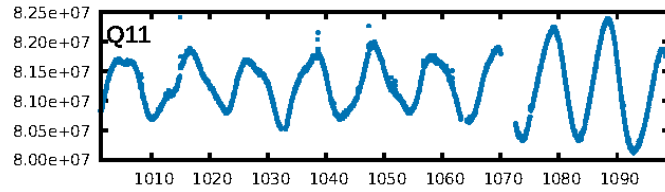
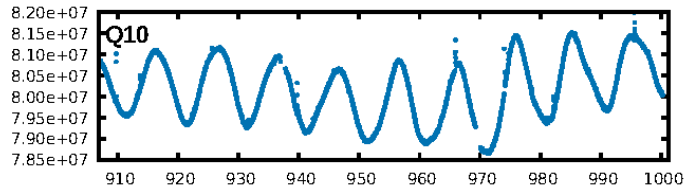
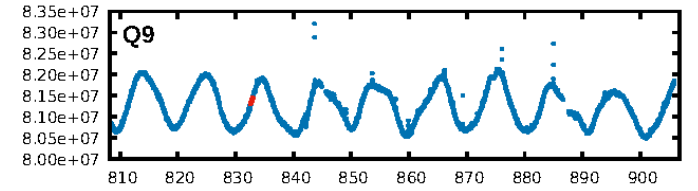
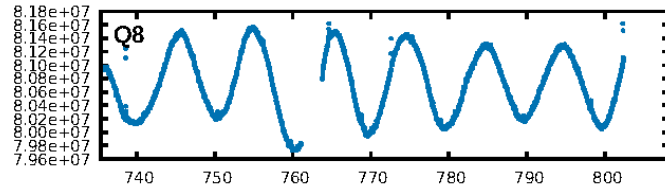
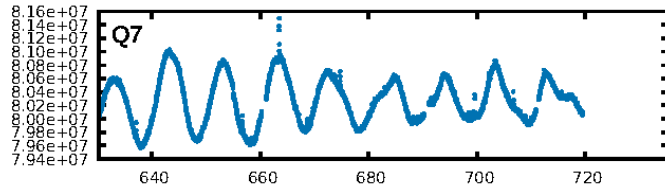
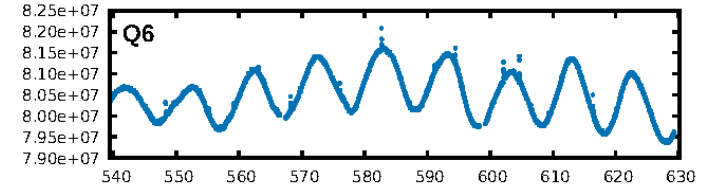
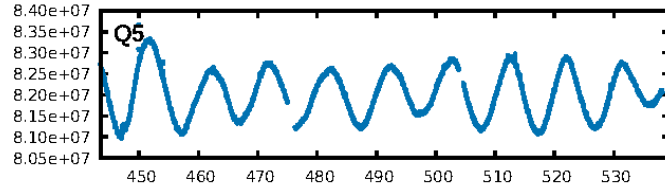
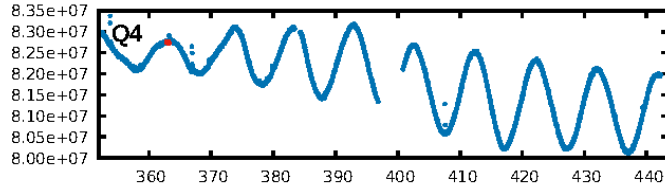
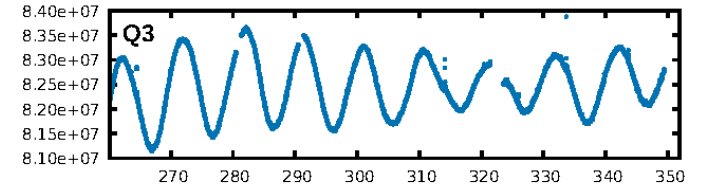
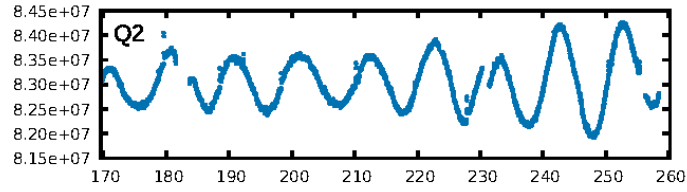
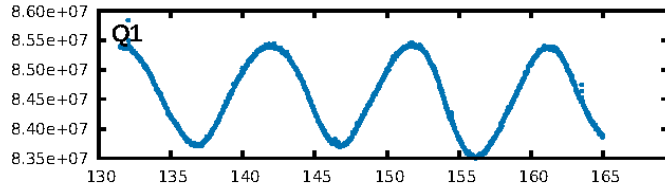
No Significant Match Found

DV One-Page Summary

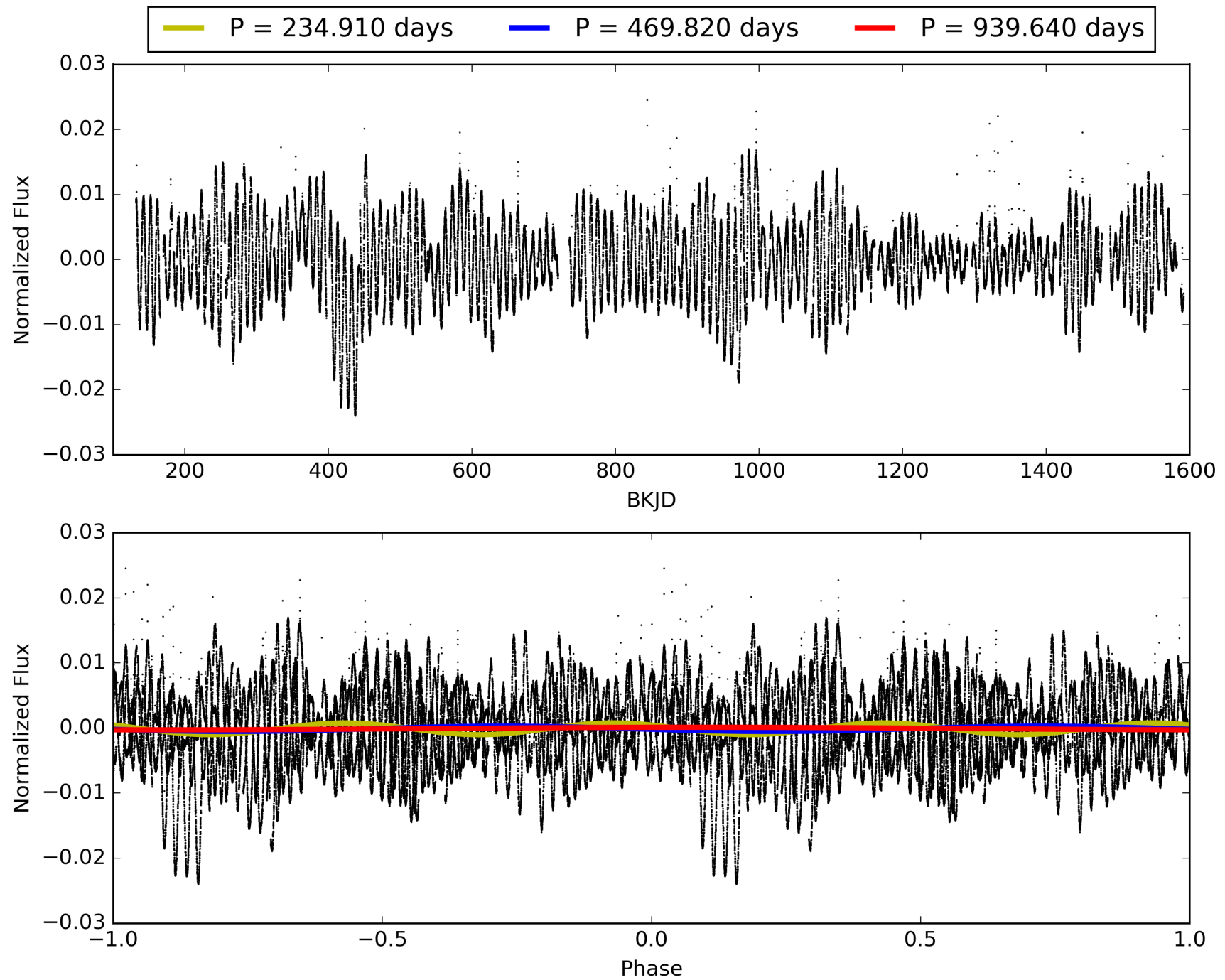
KIC: 9268249 Candidate: 3 of 6 Period: 469.820 d



TCE 009268249-03, PDC Light Curves

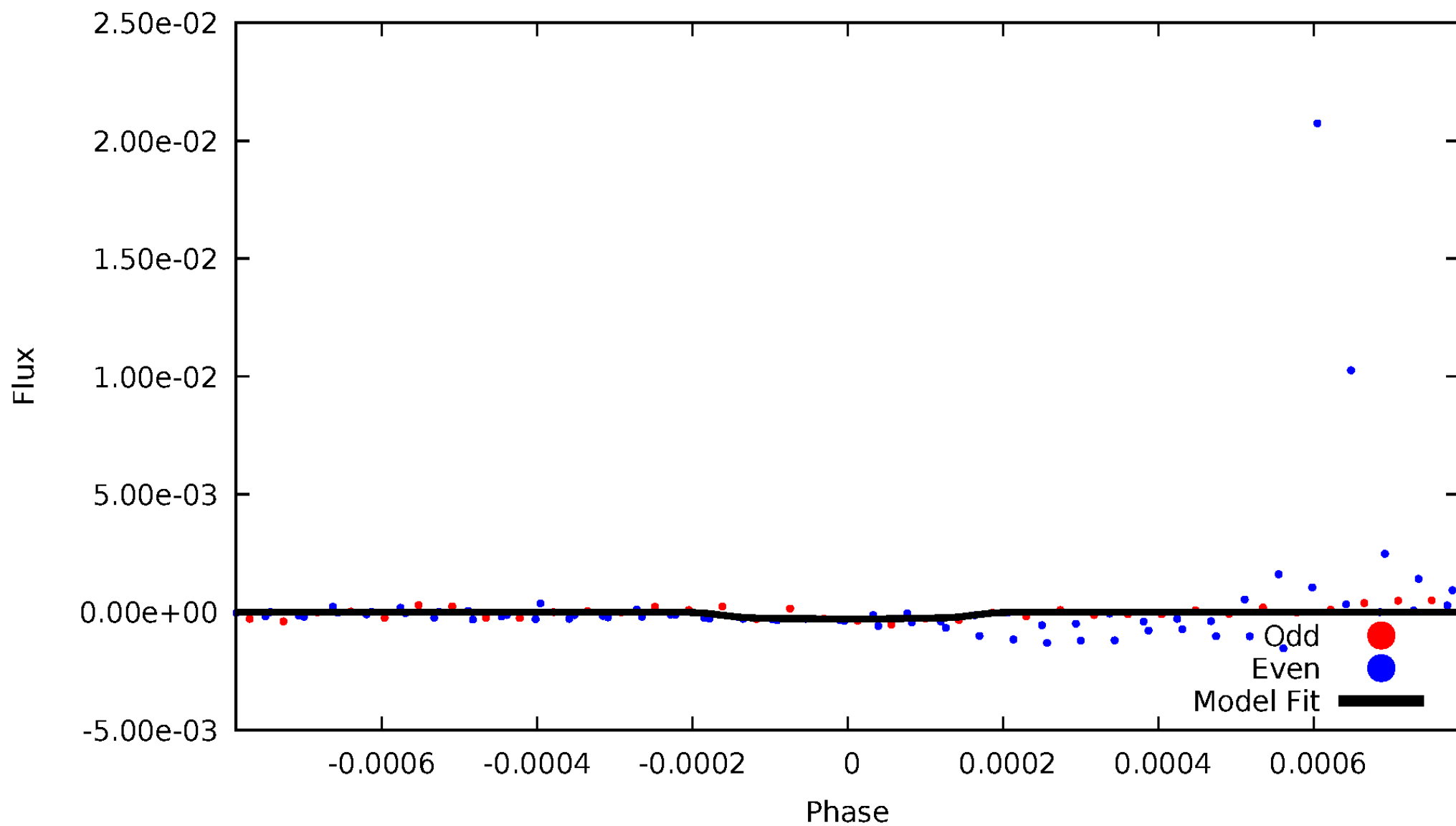


TCE 009268249-03



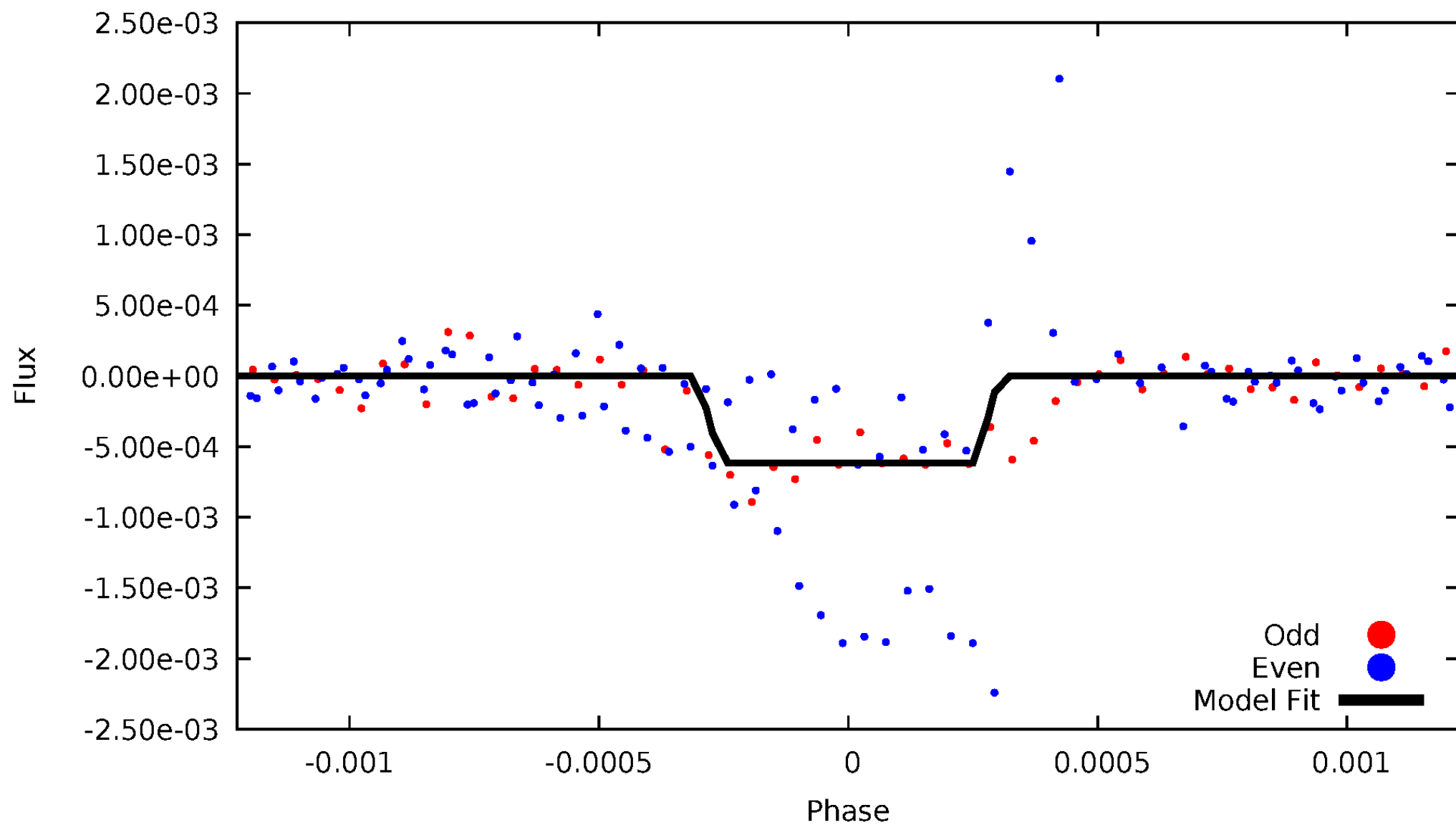
DV Odd/Even

TCE 009268249-03



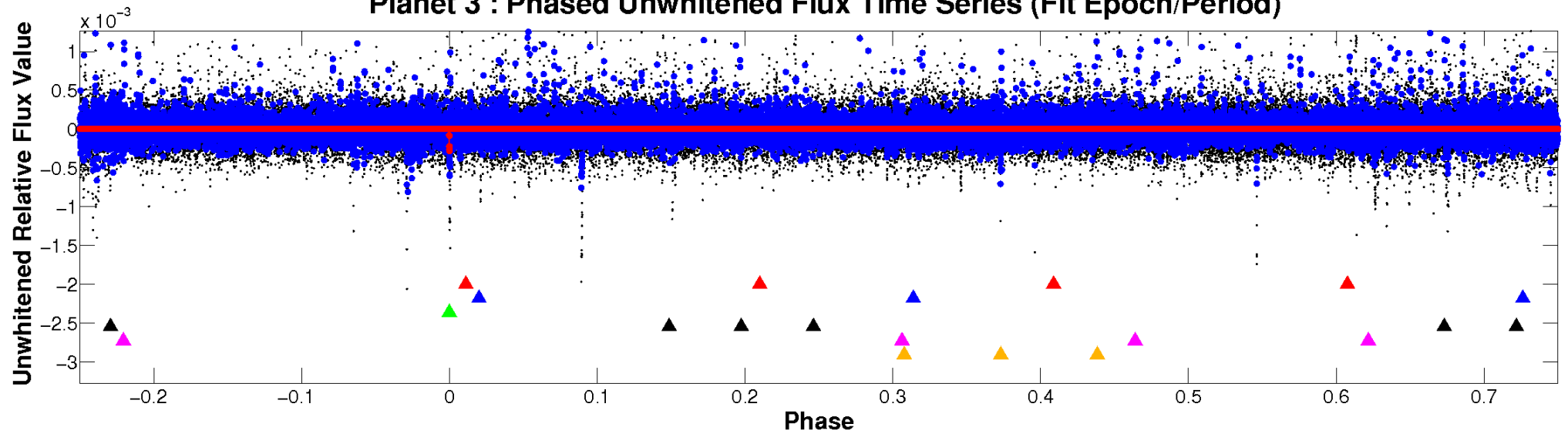
ALT Odd/Even

TCE 009268249-03

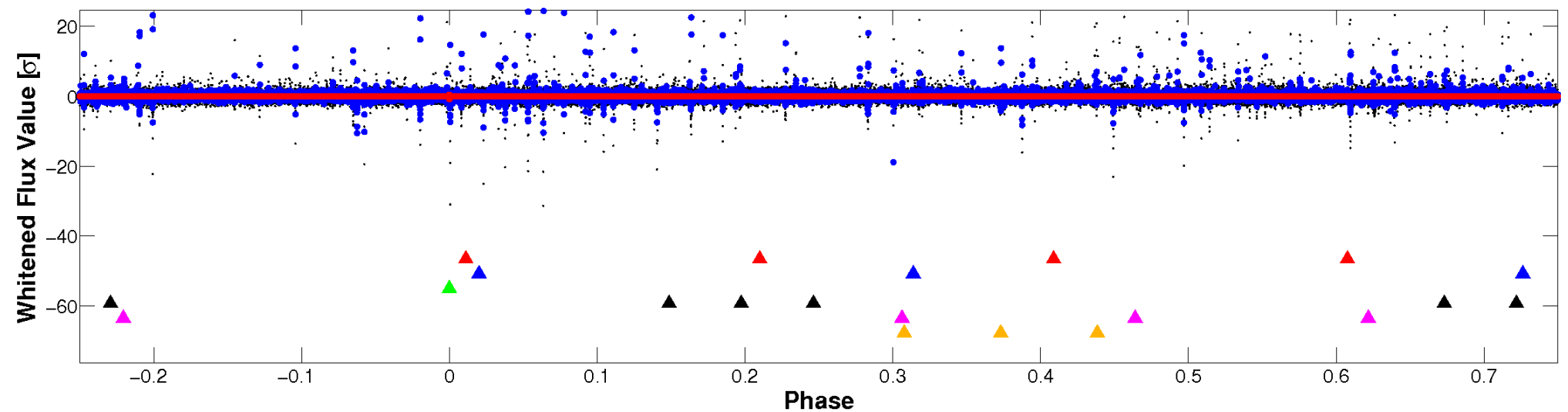


Non-Whitened Vs. Whitened Light Curve

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

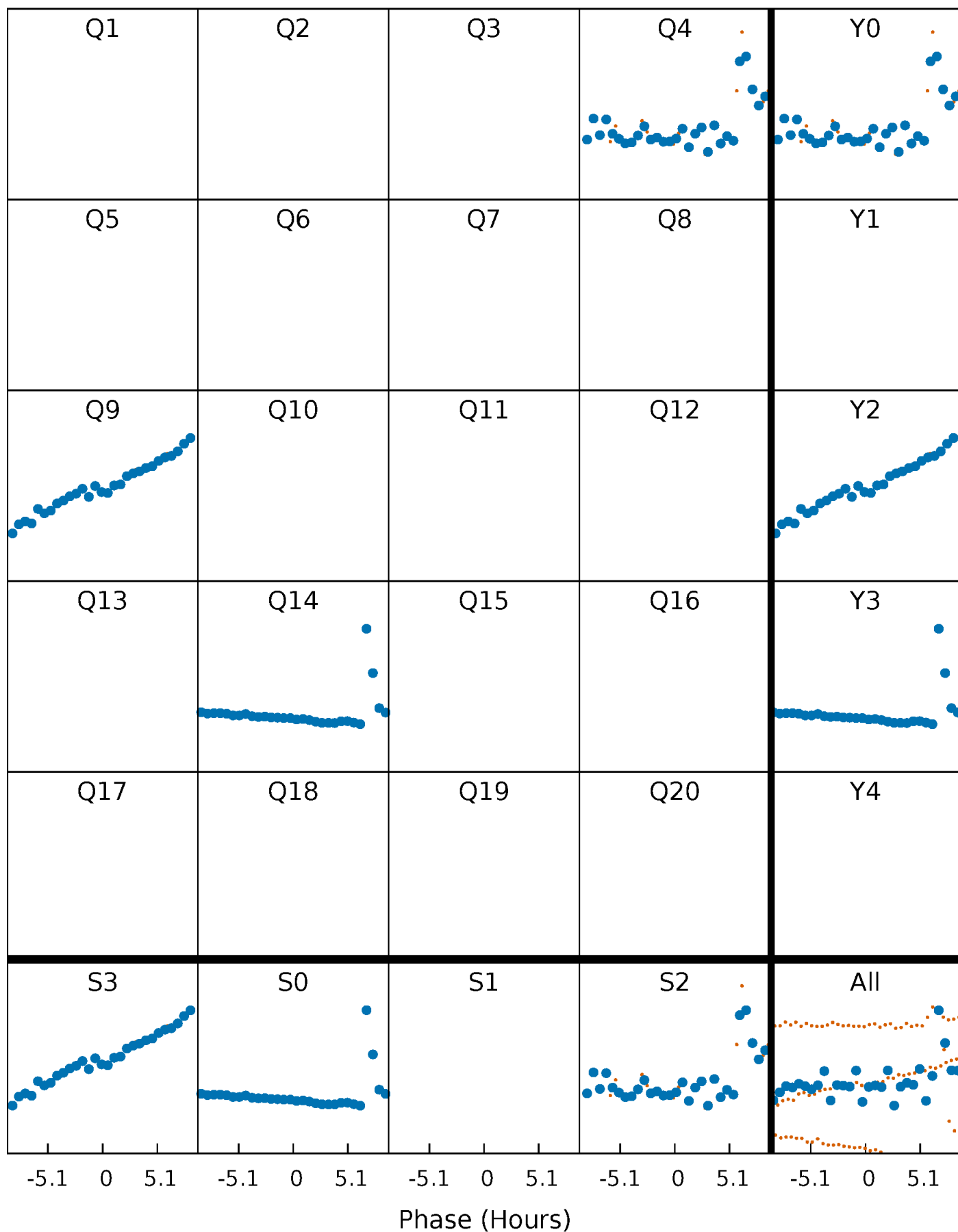


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



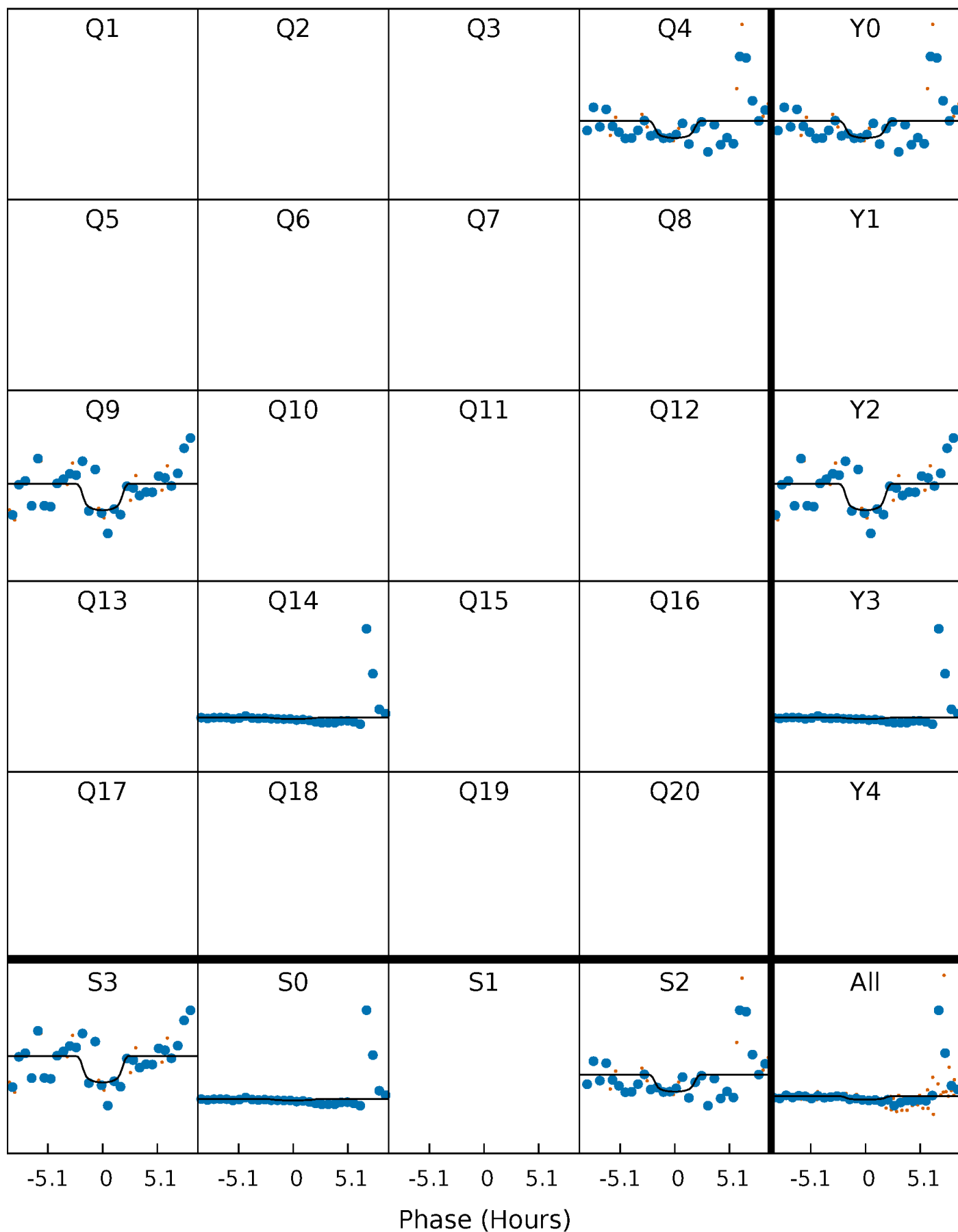
PDC Quarter-Phased Transit Curves

TCE 009268249-03 P=469.820098 Days $T_0=362.986560$ (BKJD)



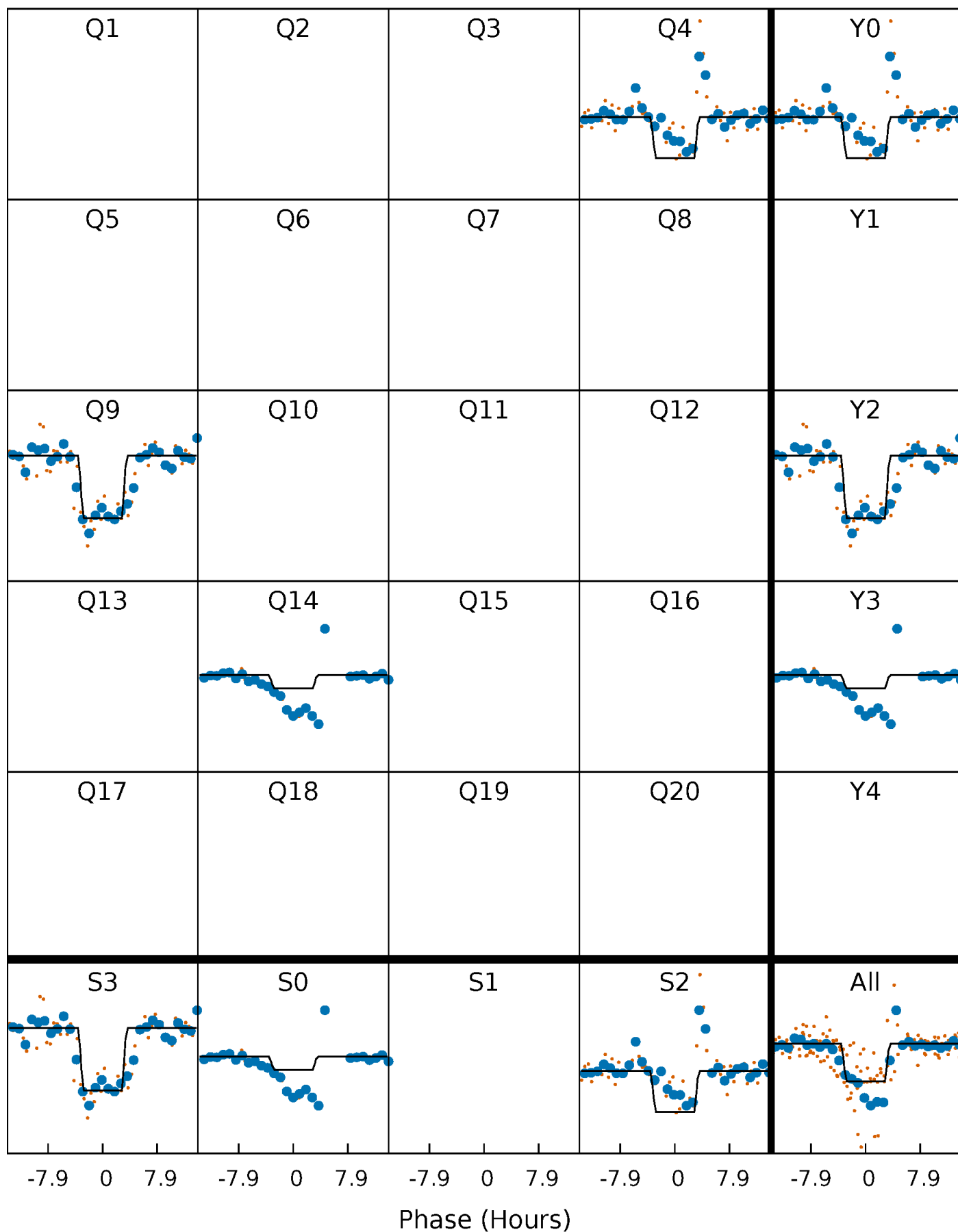
DV Quarter-Phased Transit Curves

TCE 009268249-03 $P=469.820098$ Days $T_0=362.986560$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

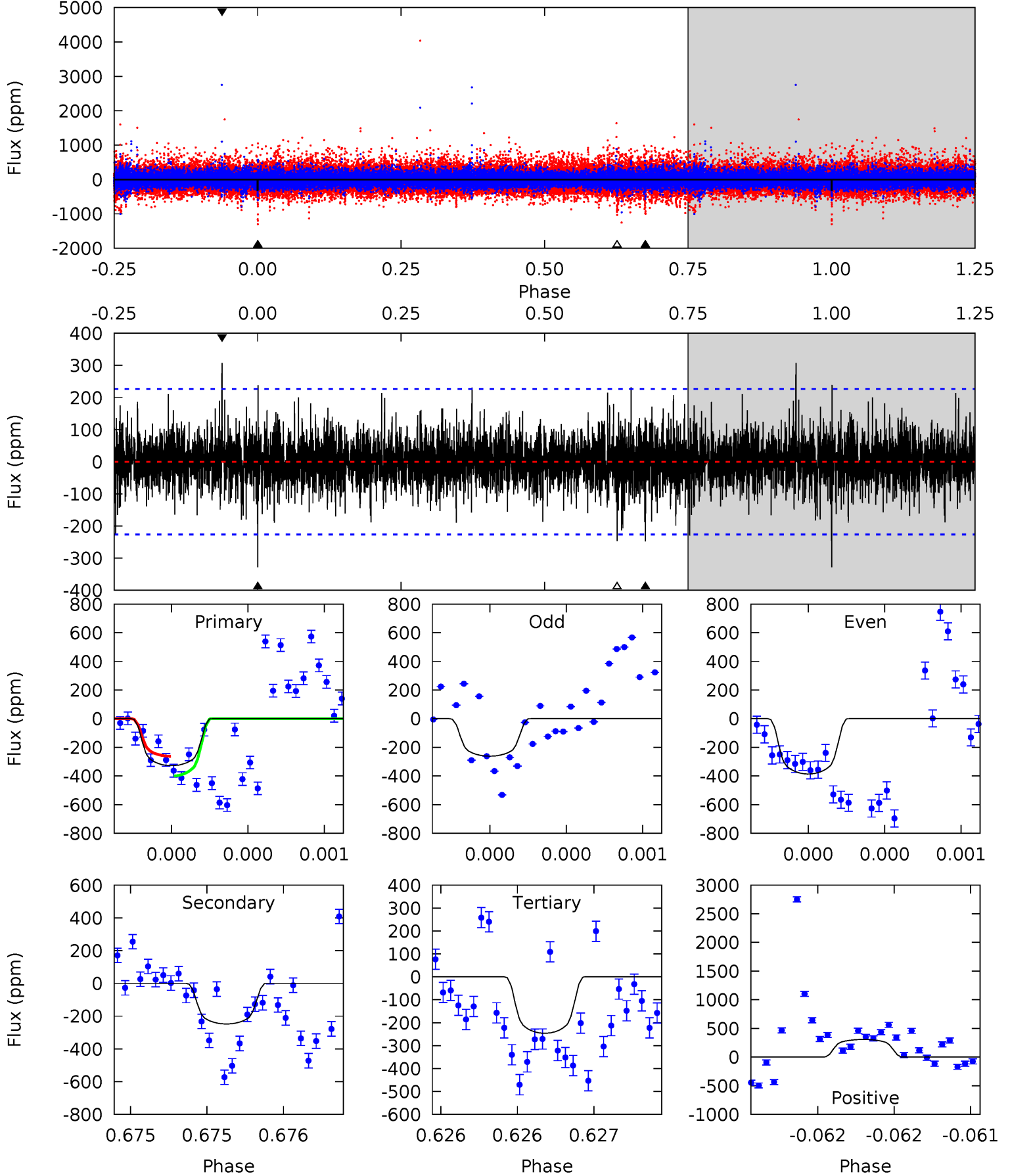
TCE 009268249-03 $P=469.828845$ Days $T_0=363.095121$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-03, P = 469.820098 Days, E = 362.986560 Days

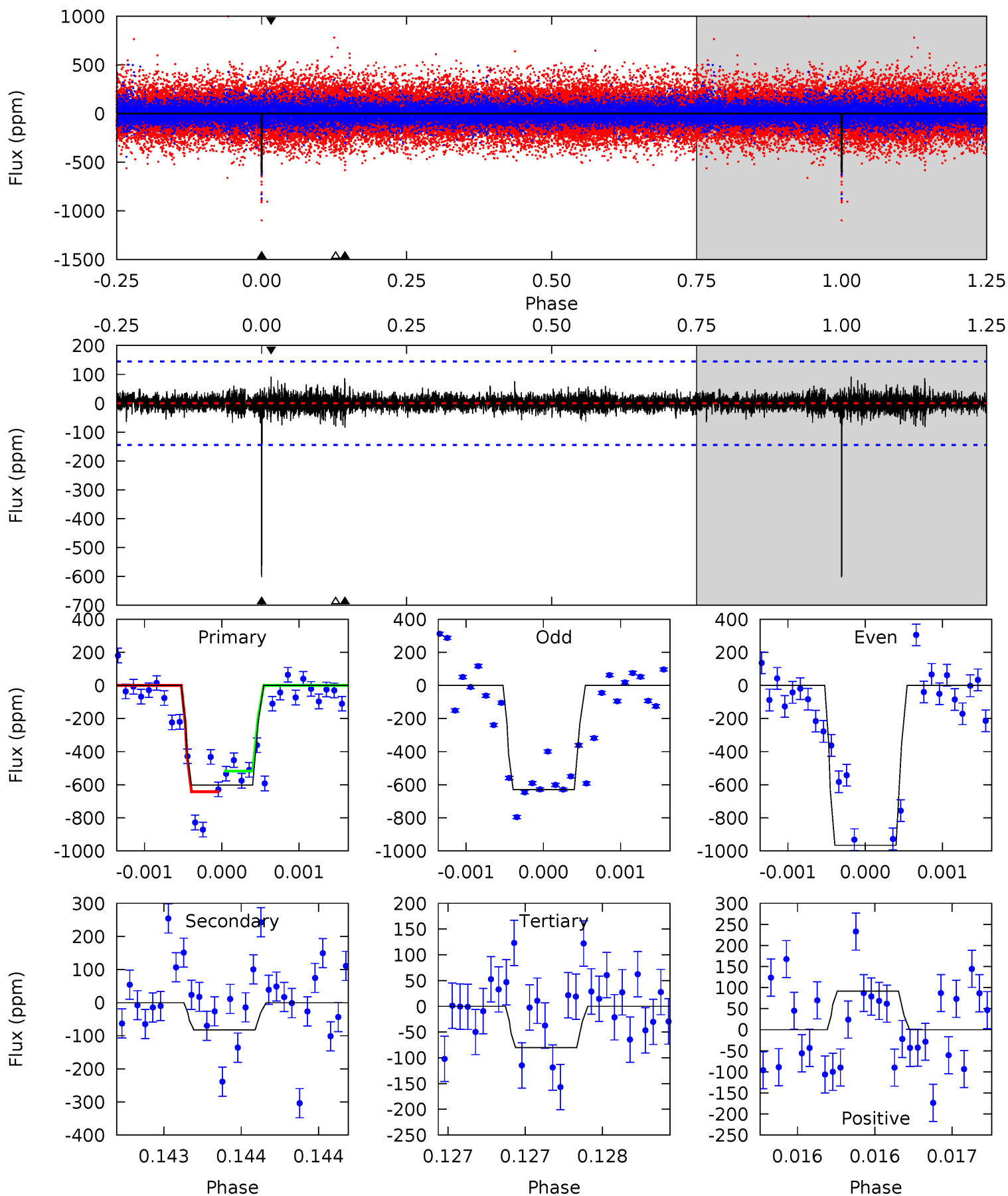
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.13	6.14	6.10	7.60	5.60	3.53	1.34	2.03	0.52	0.04	-1.47	1.11	1.32	0.48	1.71



Alt Model-Shift Uniqueness Test

009268249-03, P = 469.828845 Days, E = 363.095121 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.1	3.16	3.07	3.52	5.54	3.43	0.59	20.0	19.6	0.09	-0.35	7.39	1.30	0.13	0



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-248 ± 40	$4.83^{+4.06}_{-3.11}$	400^{+57}_{-65}	4318^{+1876}_{-722}	8793^{+55567}_{-6129}
Alt.	-82 ± 26	$5.85^{+4.57}_{-3.52}$	403^{+54}_{-66}	3339^{+1041}_{-457}	1934^{+9572}_{-1355}

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 $A_{obs} \gg 1.0$

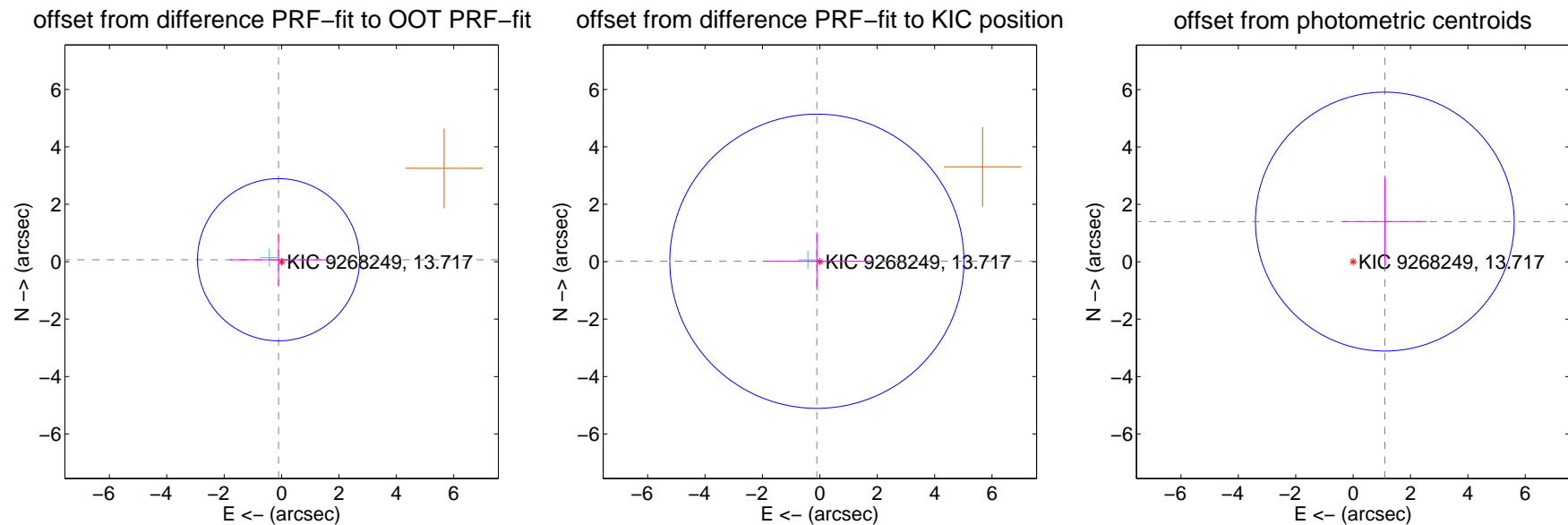
DV Centroid Data

Supplemental centroid analysis for 009268249-03. Kepler magnitude: 13.72. Transit SNR 3.63

There are 2 quarters with good PRF difference image offsets

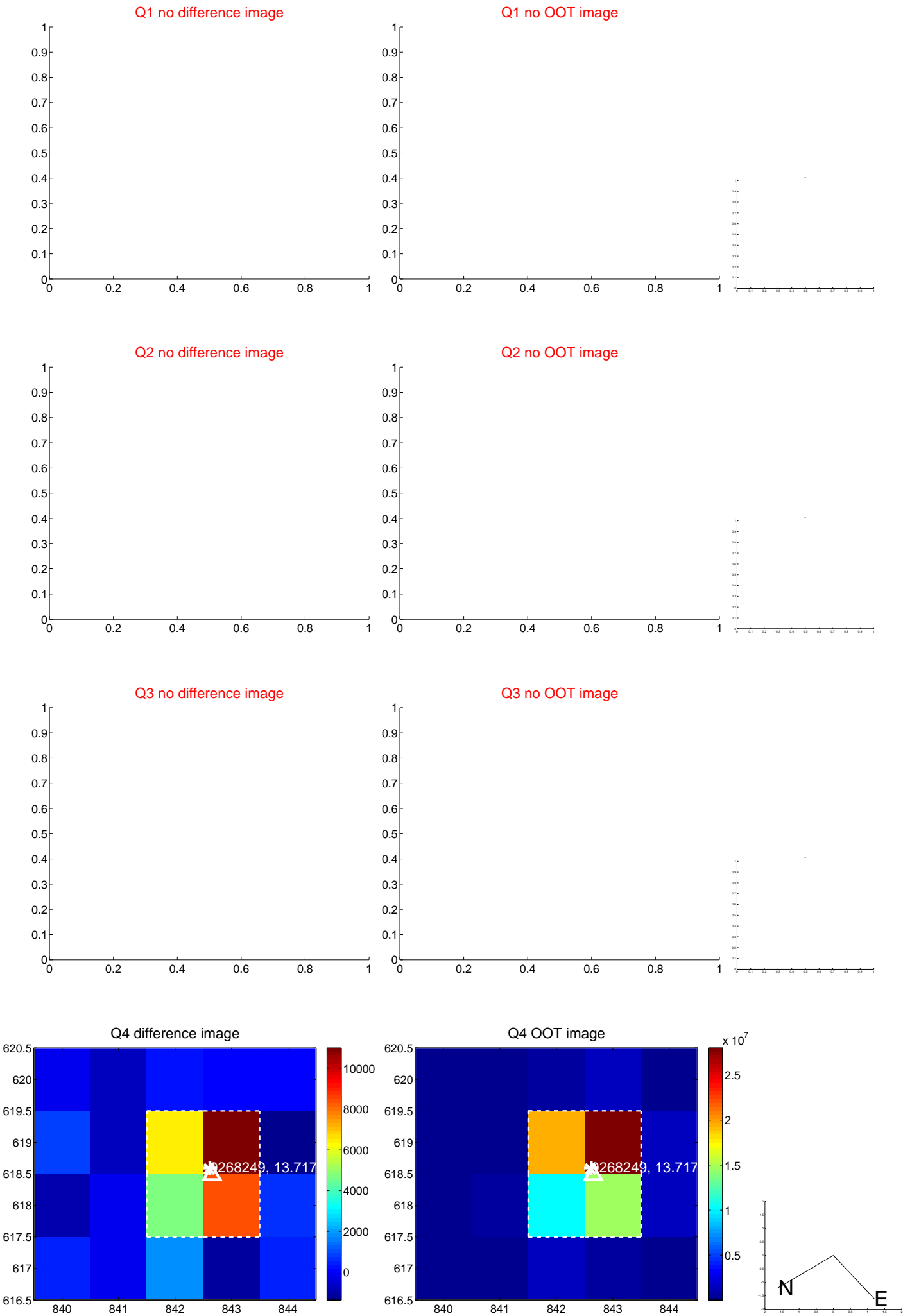
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.125 ± 0.941	0.13	0.106 ± 1.698	0.068 ± 0.916
PRF-fit source offset from KIC position	0.105 ± 1.708	0.06	0.104 ± 1.875	0.015 ± 1.005
photometric centroid source offset	1.78 ± 1.50	1.19	-1.11 ± 1.46	1.40 ± 1.53



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.

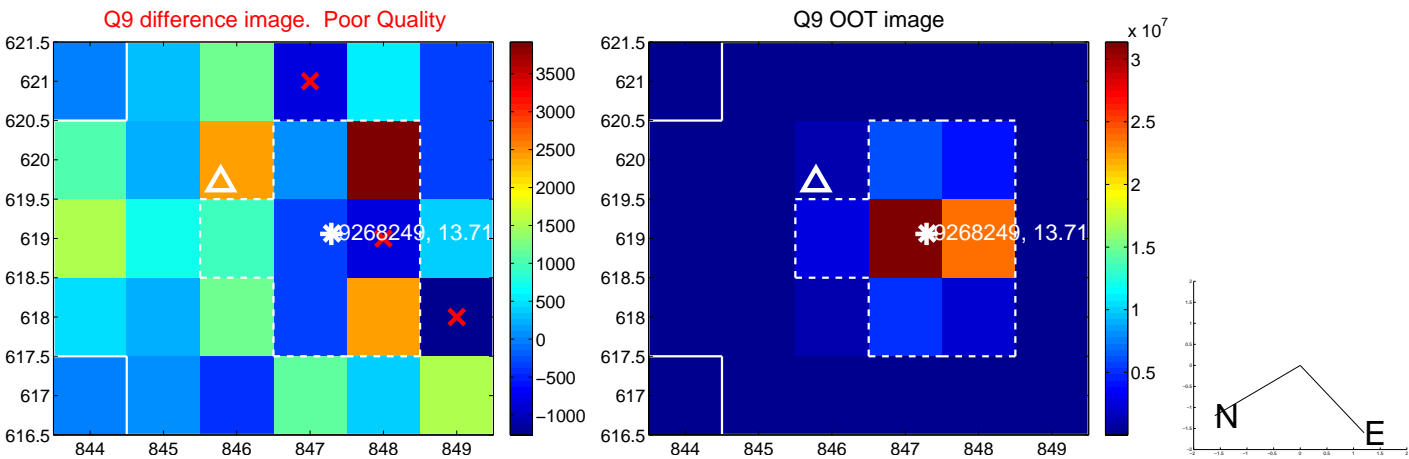
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



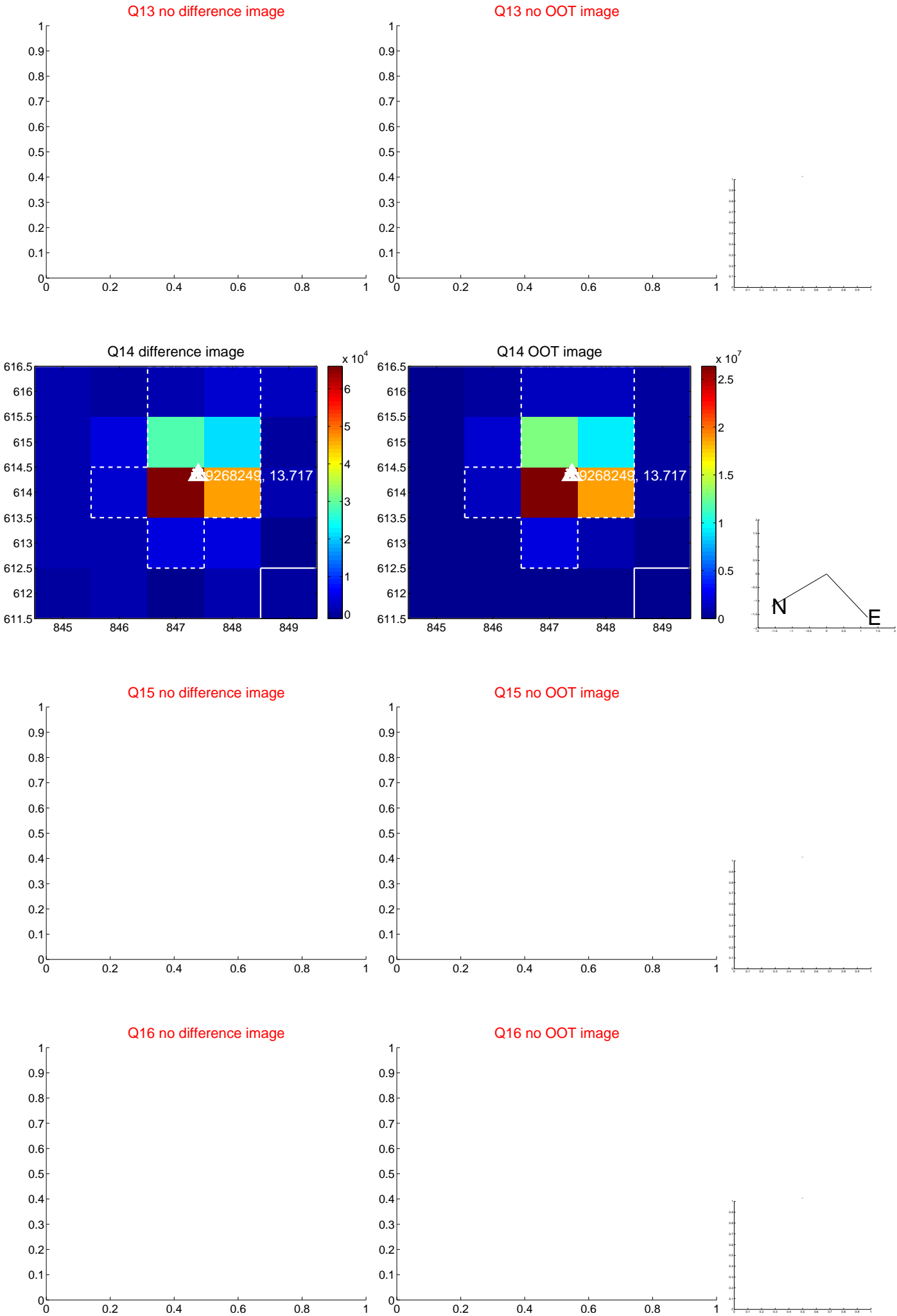
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



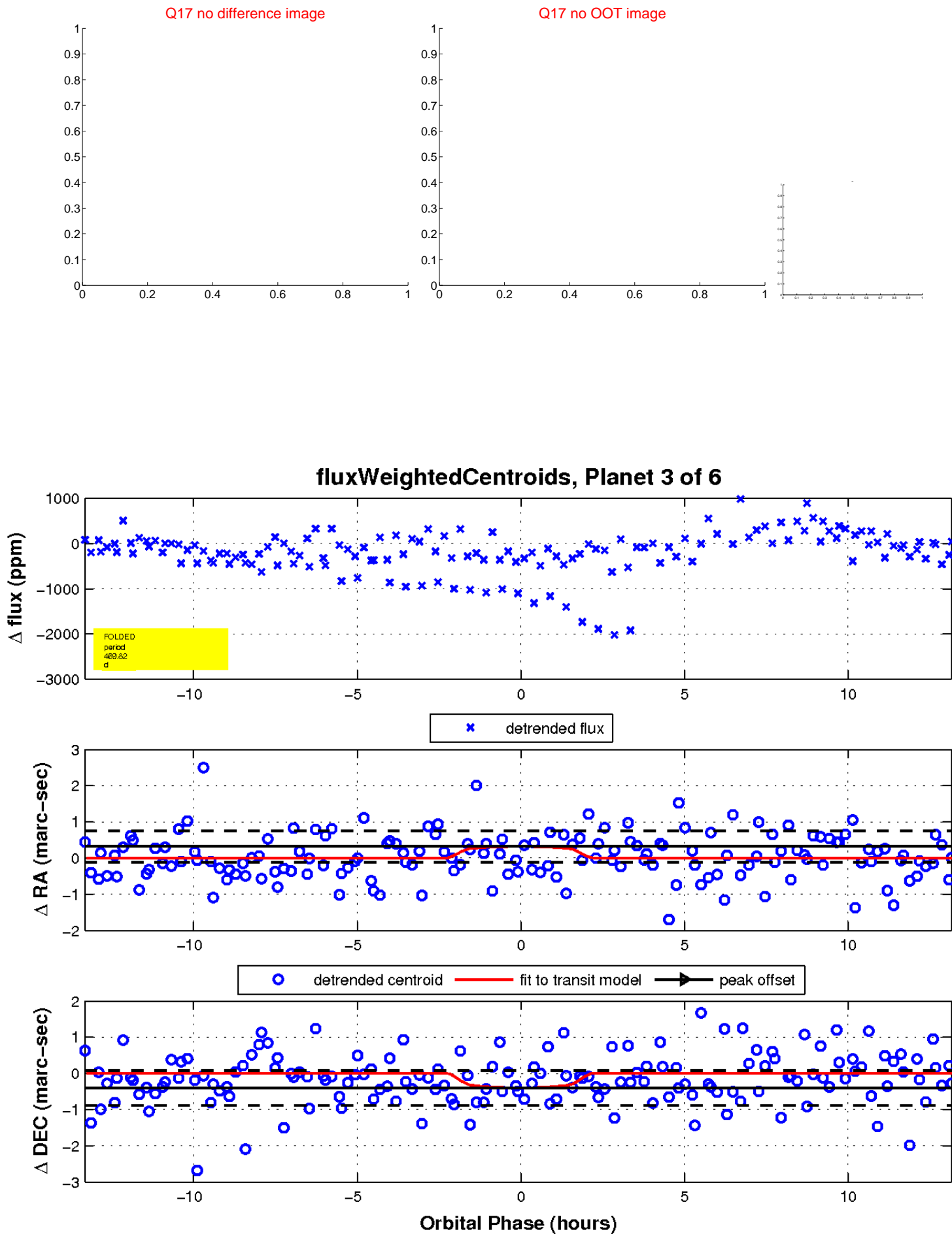
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

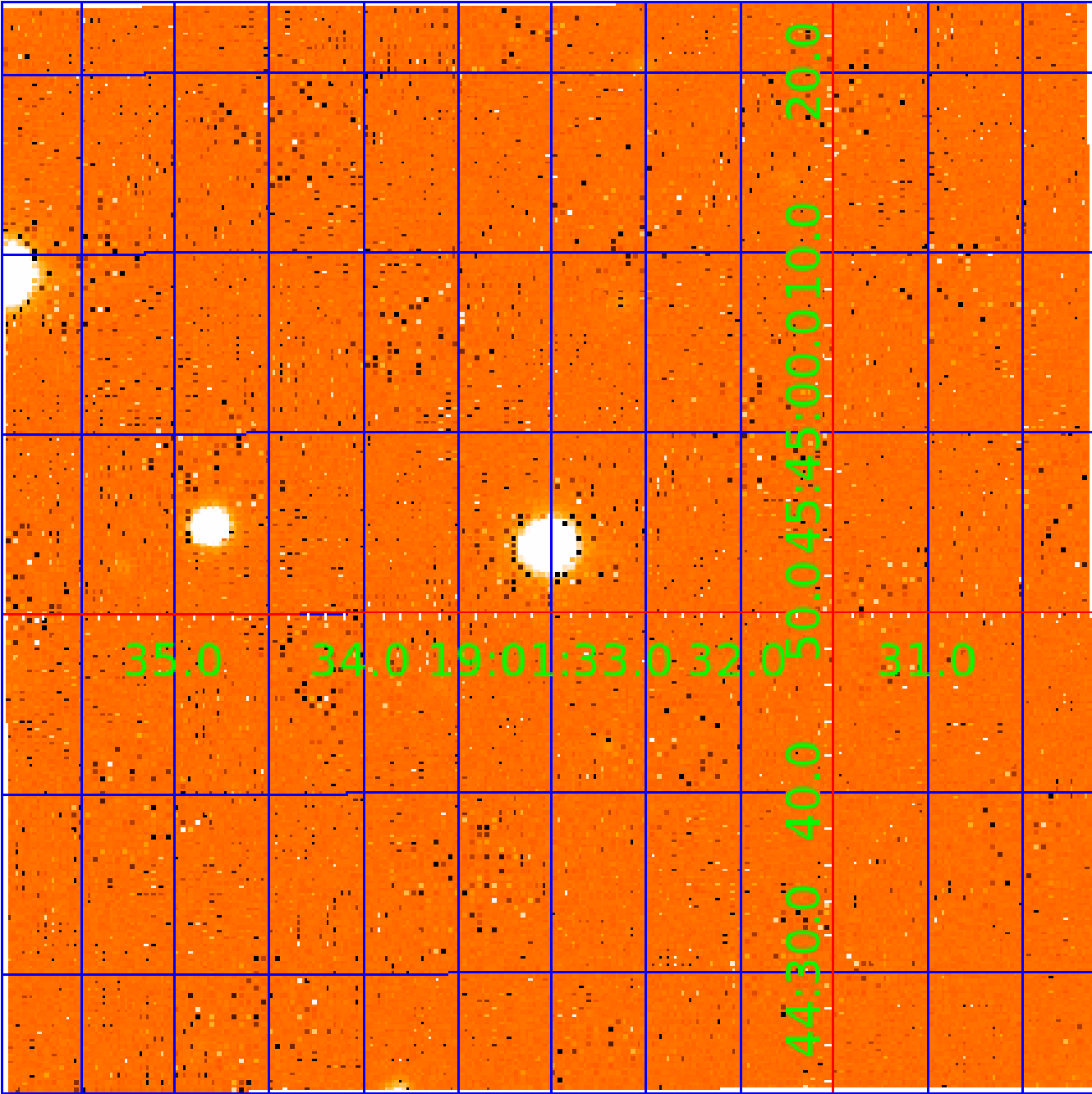


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009268249

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})
009268249-01	OBS	No	376.408585	178.644108	515.7	7.907	11.8	7.4	2.25	4864	5.79	2.21
009268249-02	OBS	No	607.857696	234.390491	1452.6	6.729	14.8	15.7	2.25	4864	9.36	1.17
009268249-03	OBS	No	469.820098	362.986560	283.7	4.441	10.8	3.6	2.25	4864	4.92	1.65
009268249-04	OBS	No	223.441539	255.273241	499.2	2.964	10.5	9.1	2.25	4864	5.45	4.43
009268249-05	OBS	No	395.713443	259.368943	428.8	4.819	9.1	6.8	2.25	4864	5.55	2.07
009268249-06	OBS	No	500.503980	507.579570	560.7	5.138	11.5	6.2	2.25	4864	5.78	1.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009268249-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS
009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

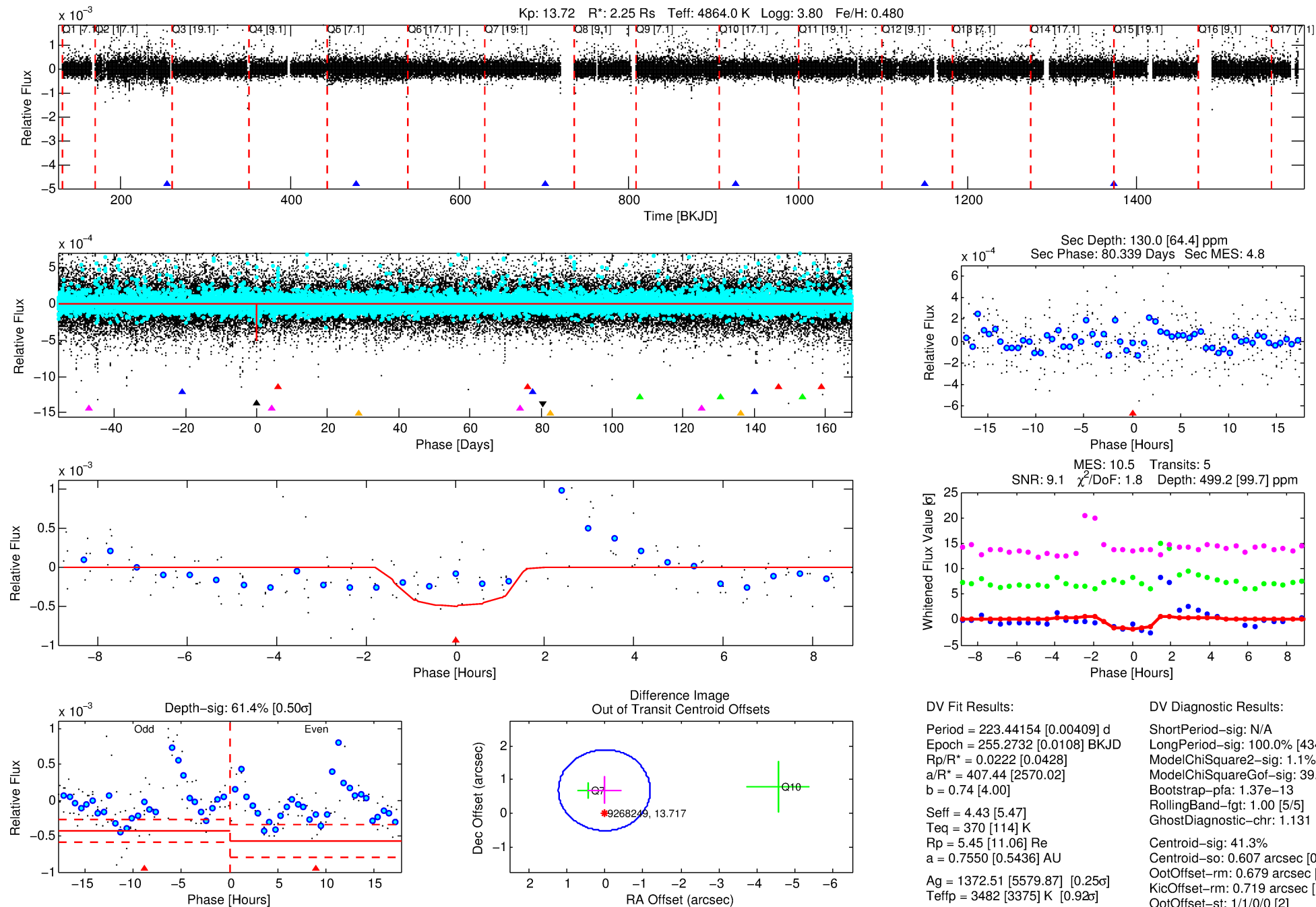
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-04

No Significant Match Found

DV One-Page Summary

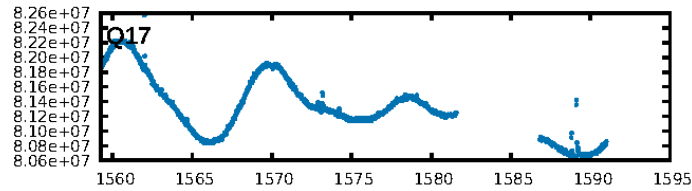
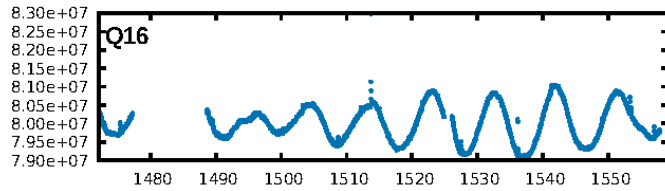
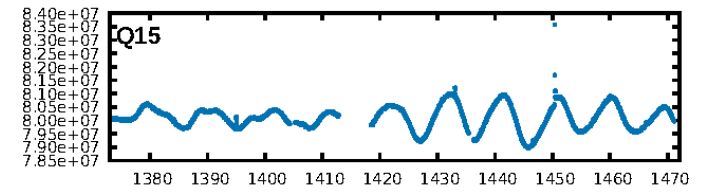
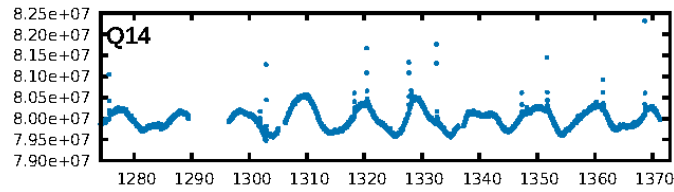
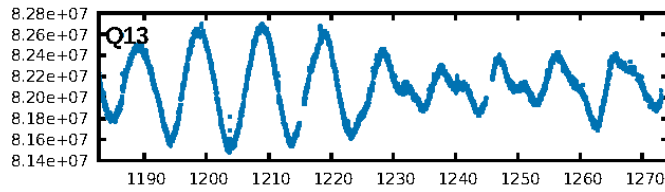
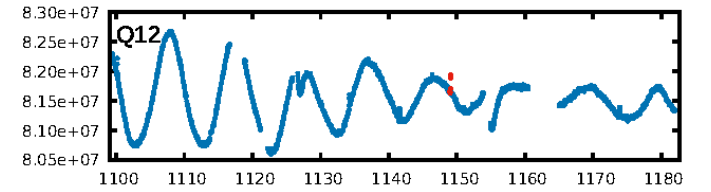
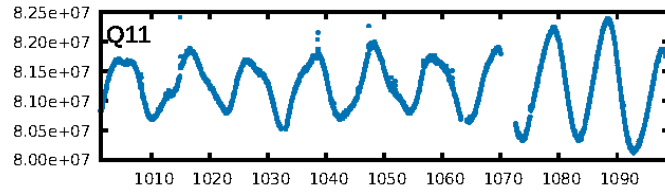
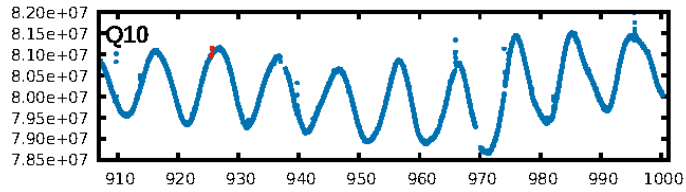
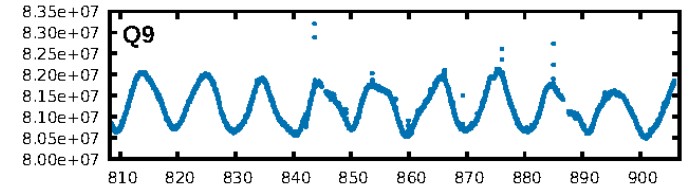
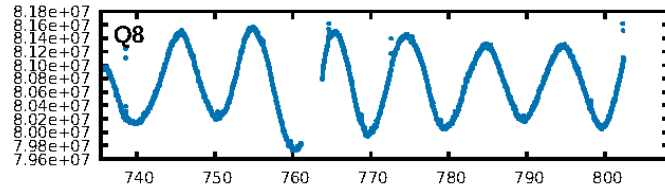
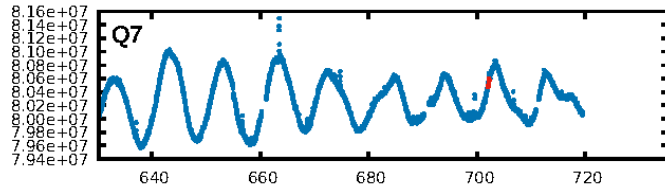
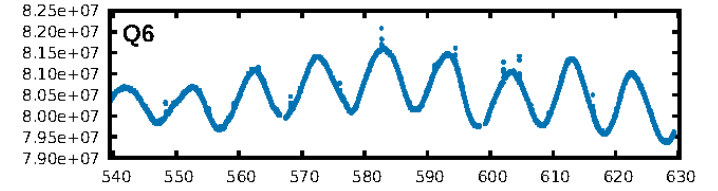
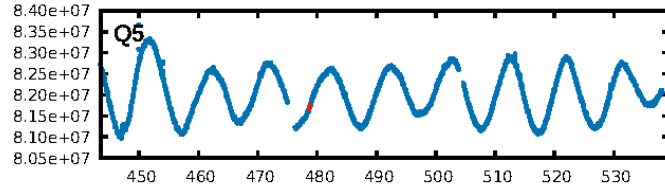
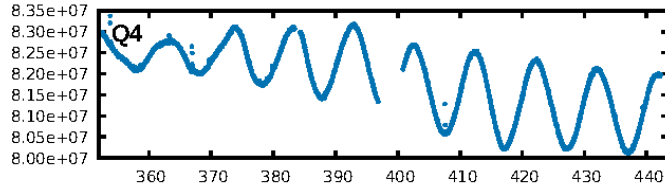
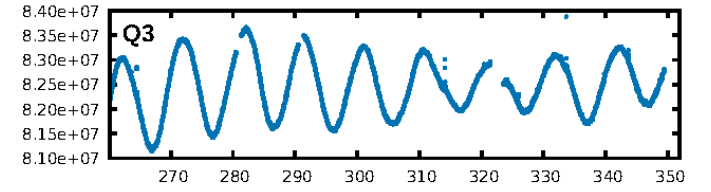
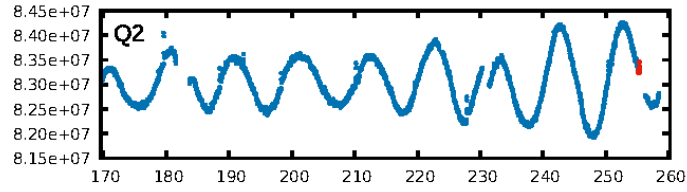
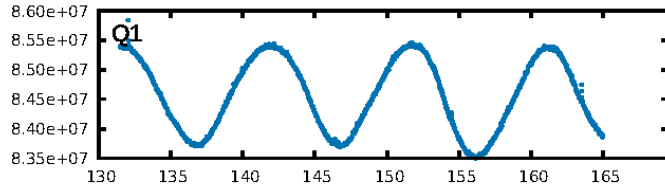
KIC: 9268249 Candidate: 4 of 6 Period: 223.442 d



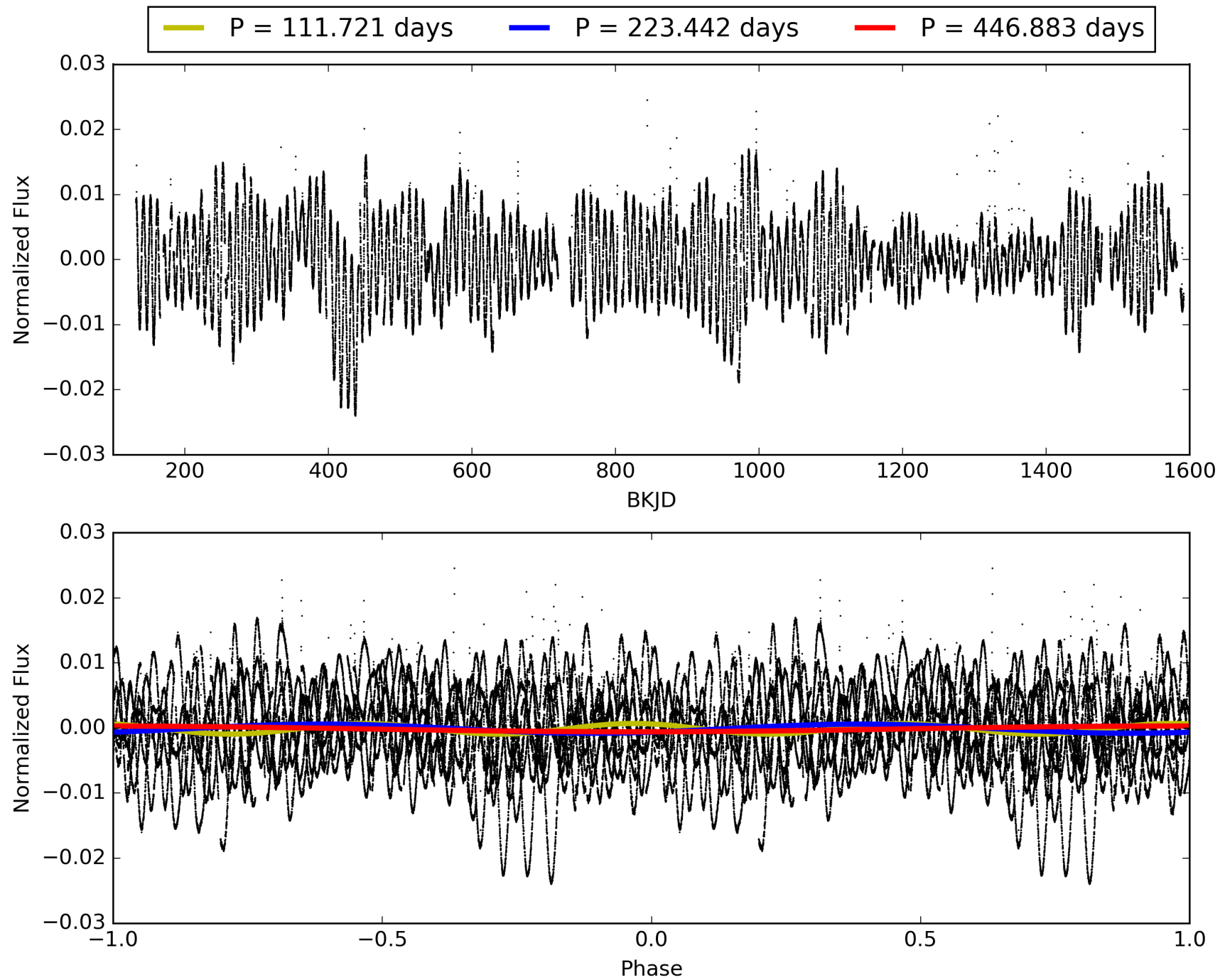
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:41:18 Z

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

TCE 009268249-04, PDC Light Curves

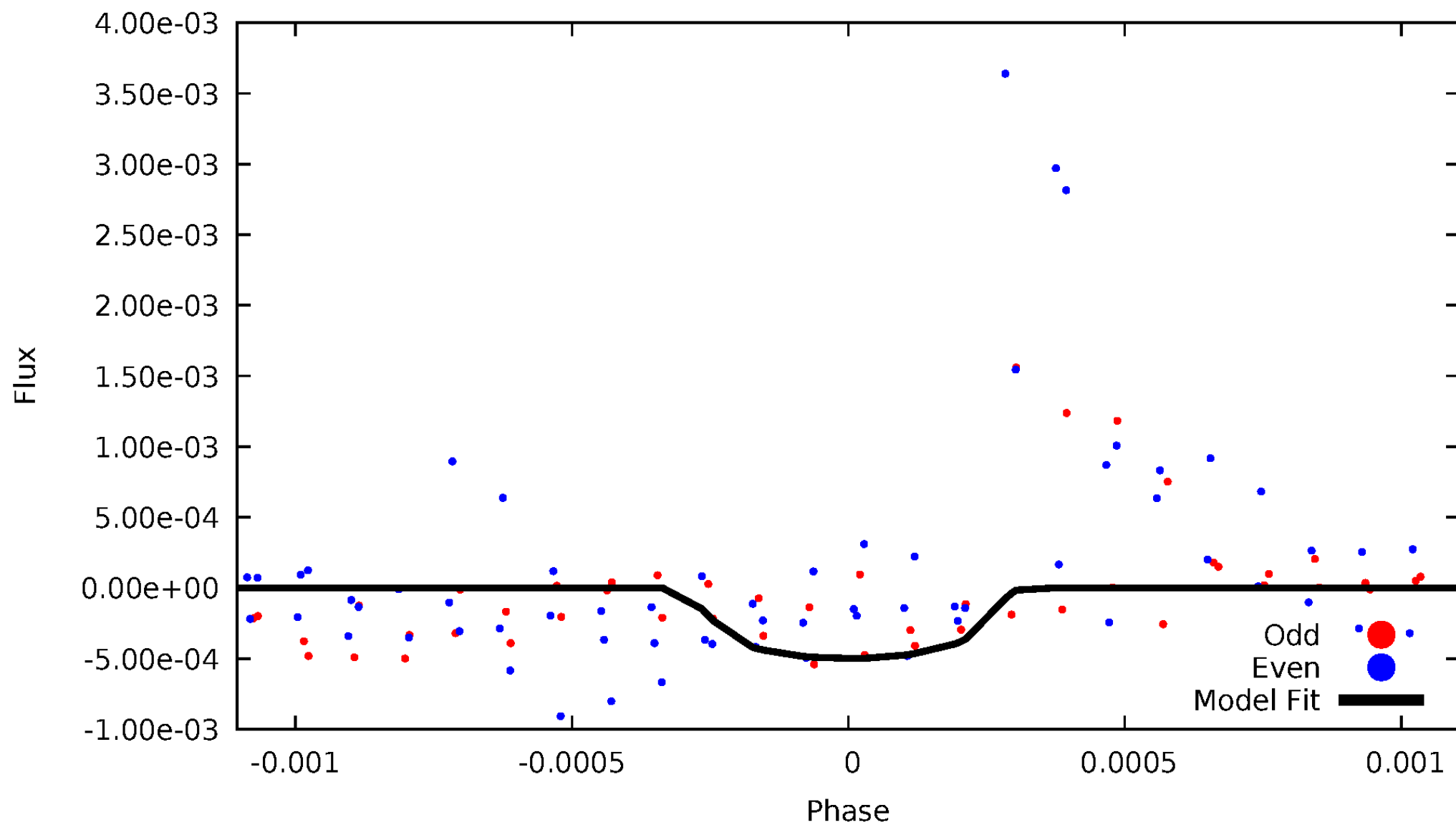


TCE 009268249-04



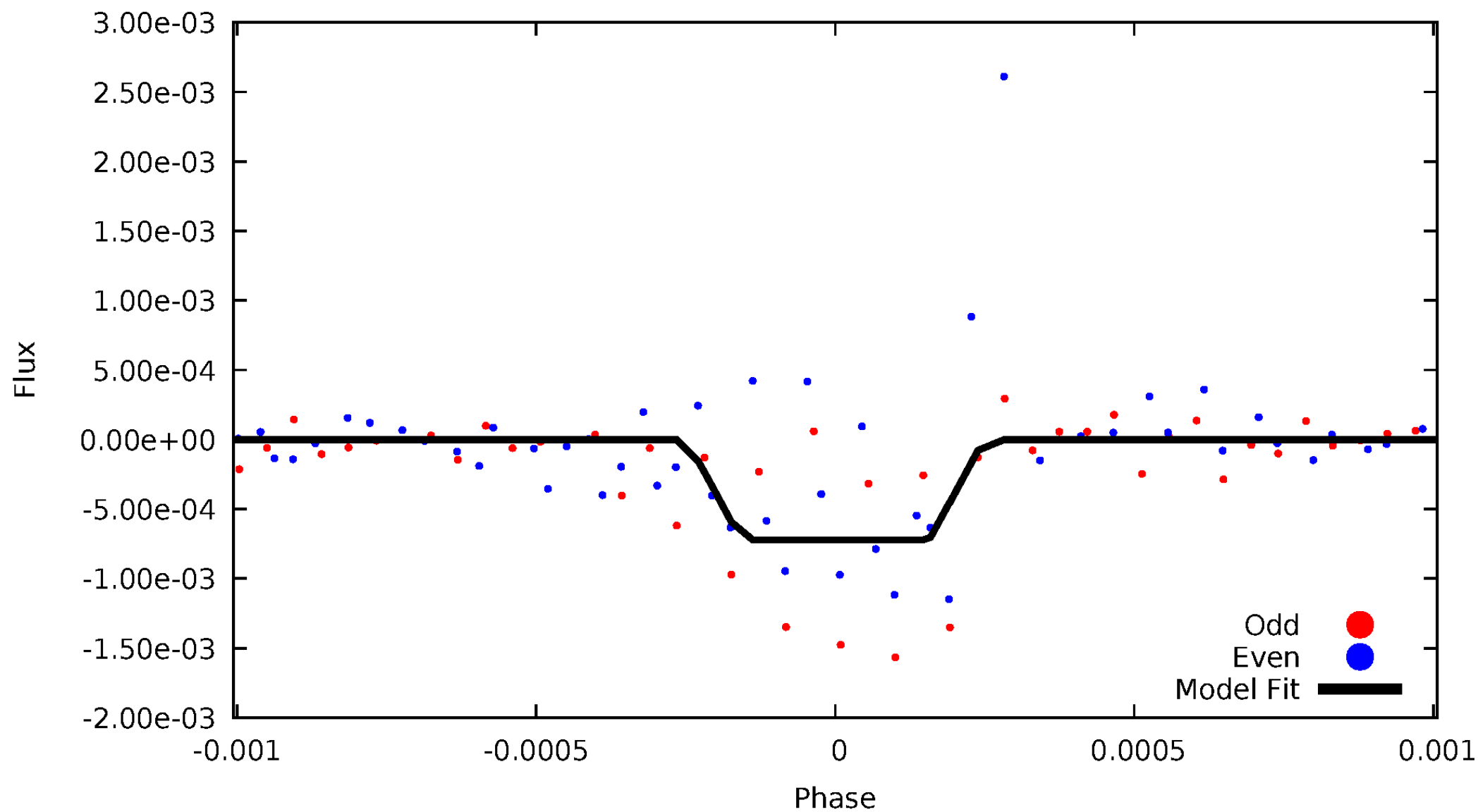
DV Odd/Even

TCE 009268249-04



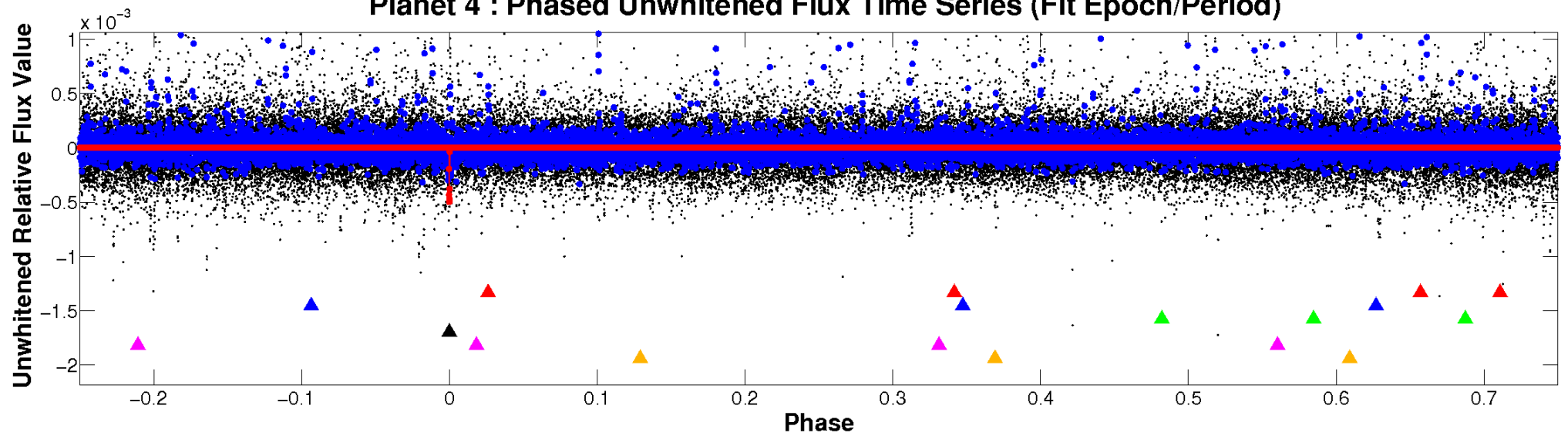
ALT Odd/Even

TCE 009268249-04

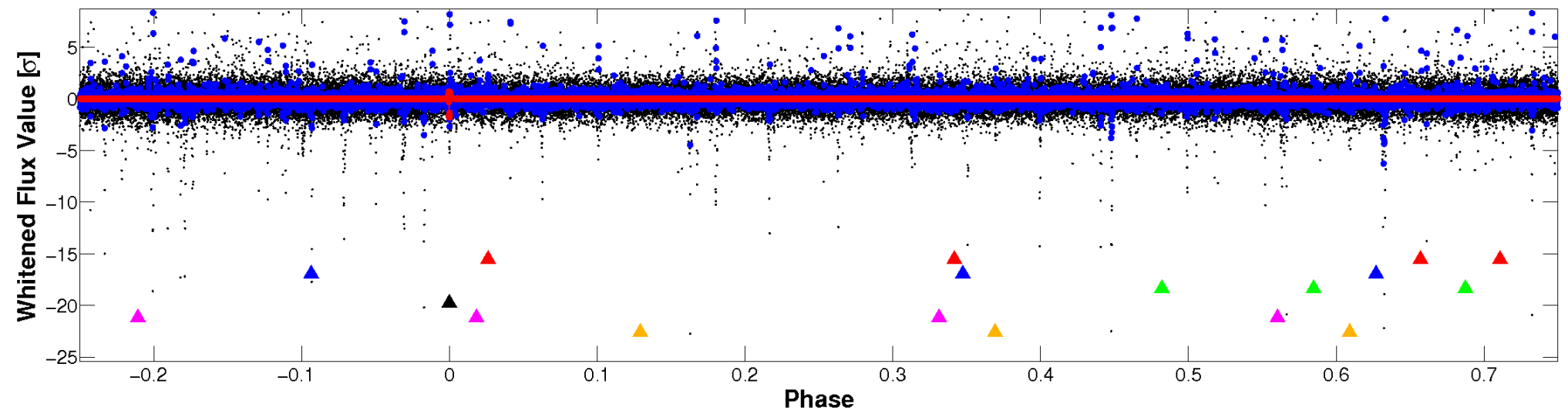


Non-Whitened Vs. Whitened Light Curve

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

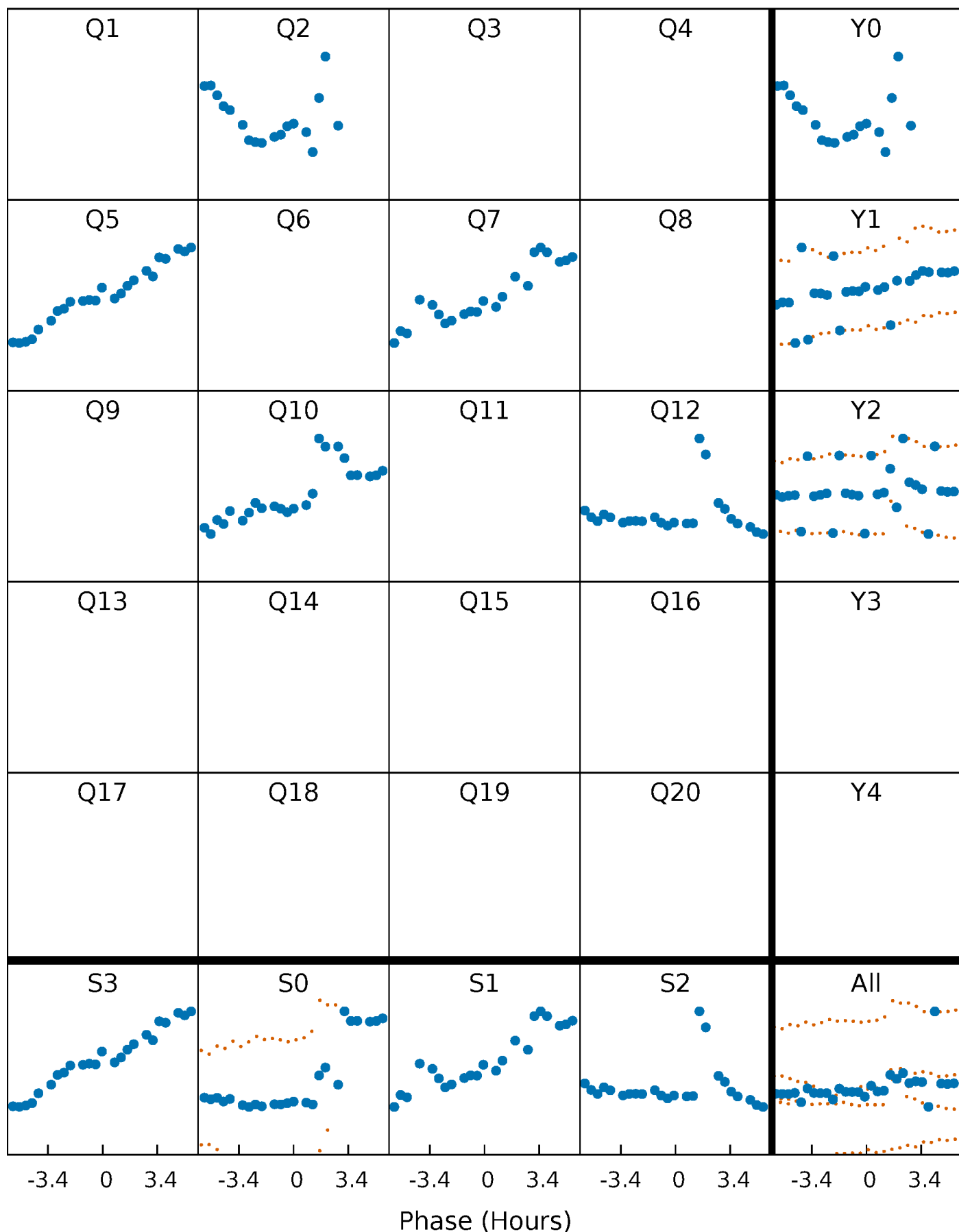


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



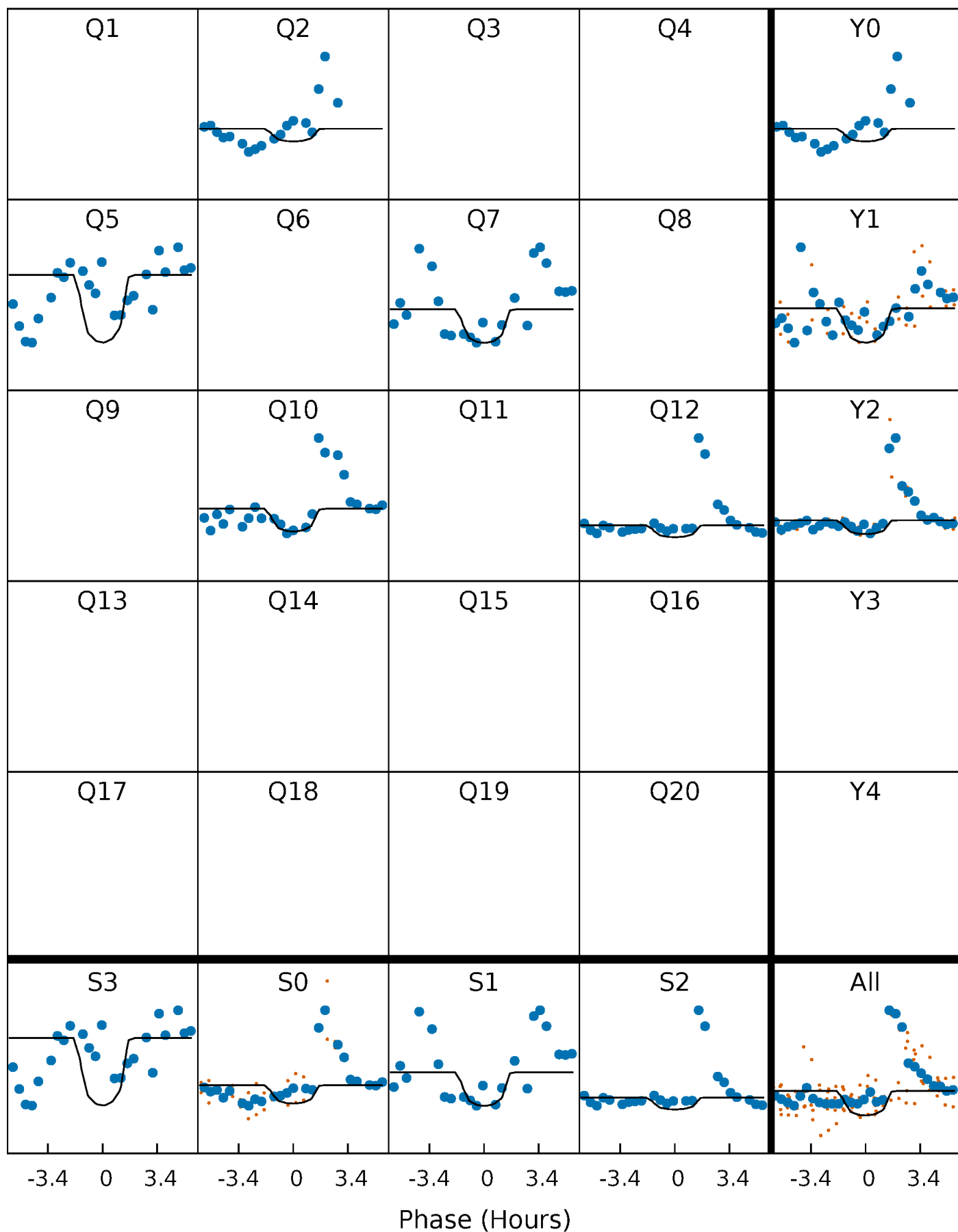
PDC Quarter-Phased Transit Curves

TCE 009268249-04 P=223.441539 Days $T_0=255.273242$ (BKJD)



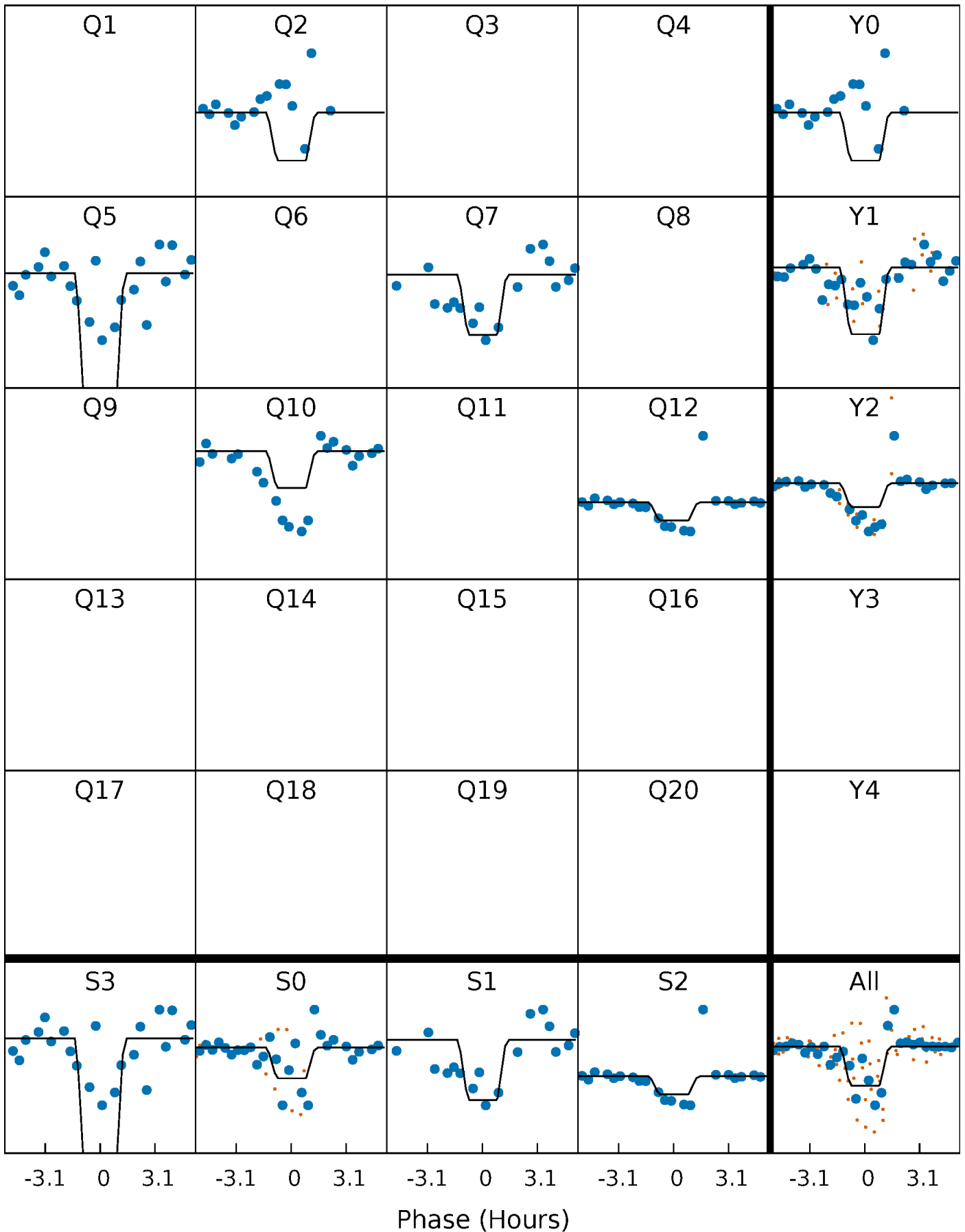
DV Quarter-Phased Transit Curves

TCE 009268249-04 $P=223.441539$ Days $T_0=255.273242$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

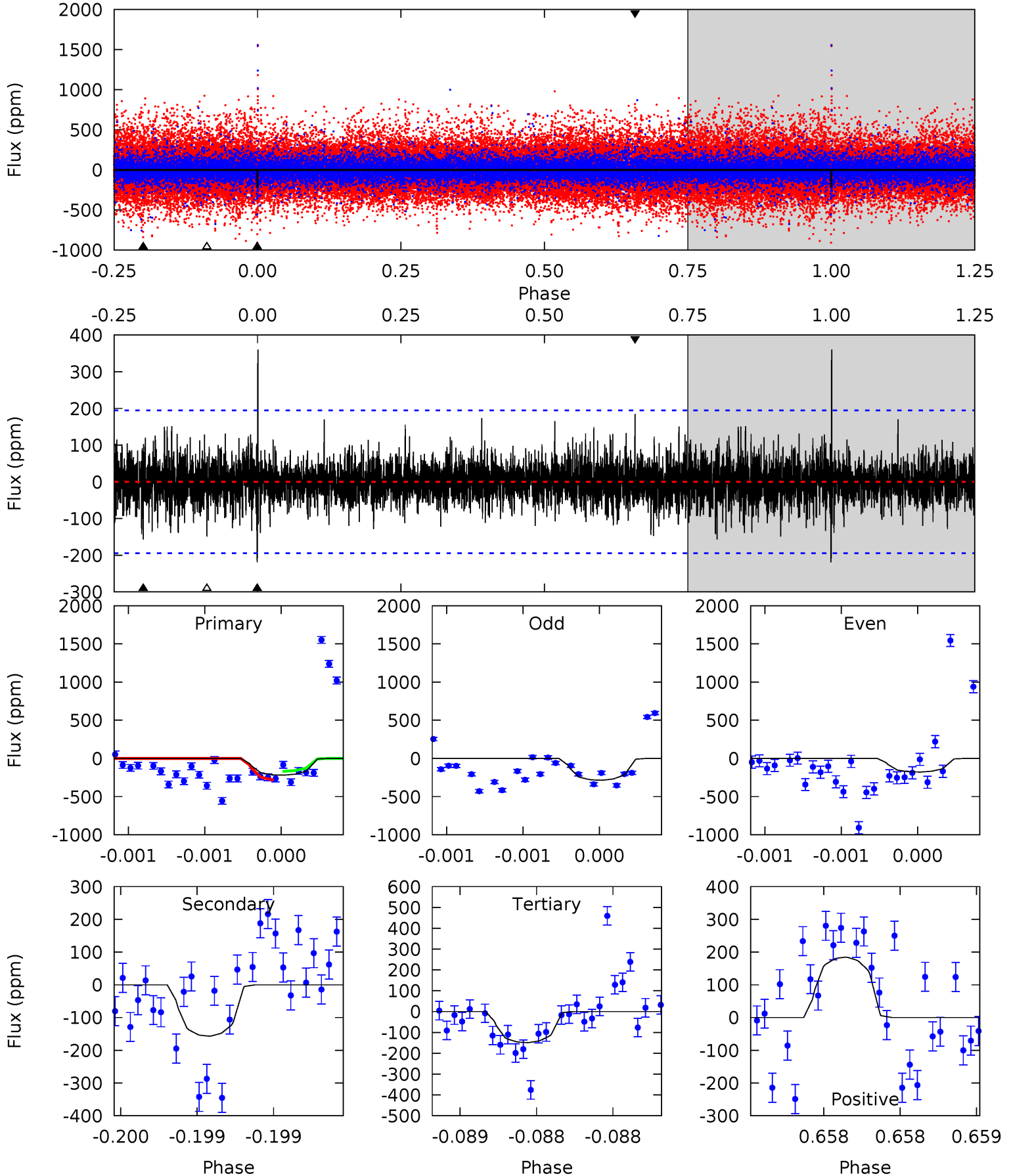
TCE 009268249-04 $P=223.437458$ Days $T_0=255.290014$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-04, P = 223.441539 Days, E = 31.831703 Days

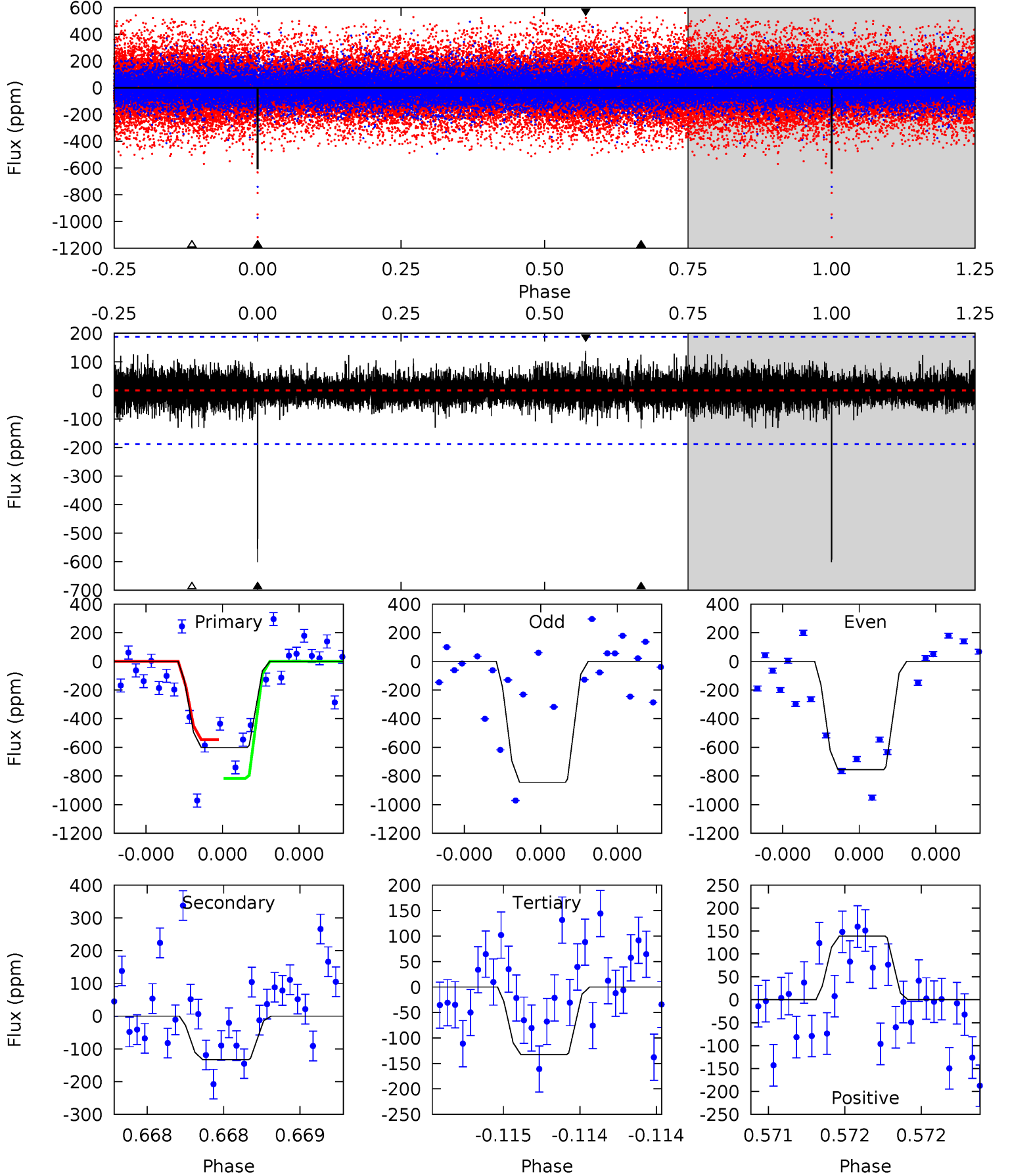
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.23	4.46	4.23	5.24	5.53	3.42	1.17	2.00	0.99	0.23	-0.78	1.46	1.37	0.62	1.58



Alt Model-Shift Uniqueness Test

009268249-04, P = 223.437458 Days, E = 31.852556 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.9	3.96	3.95	4.13	5.59	3.50	0.91	13.9	13.8	0.01	-0.17	1.37	1.04	0.19	3.72



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-157 ± 35	$8.45^{+9.78}_{-5.71}$	517^{+67}_{-99}	3317^{+1525}_{-598}	674^{+5530}_{-536}
Alt.	-133 ± 34	$9.30^{+10.08}_{-6.53}$	518^{+70}_{-94}	3112^{+1491}_{-526}	466^{+4354}_{-372}

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

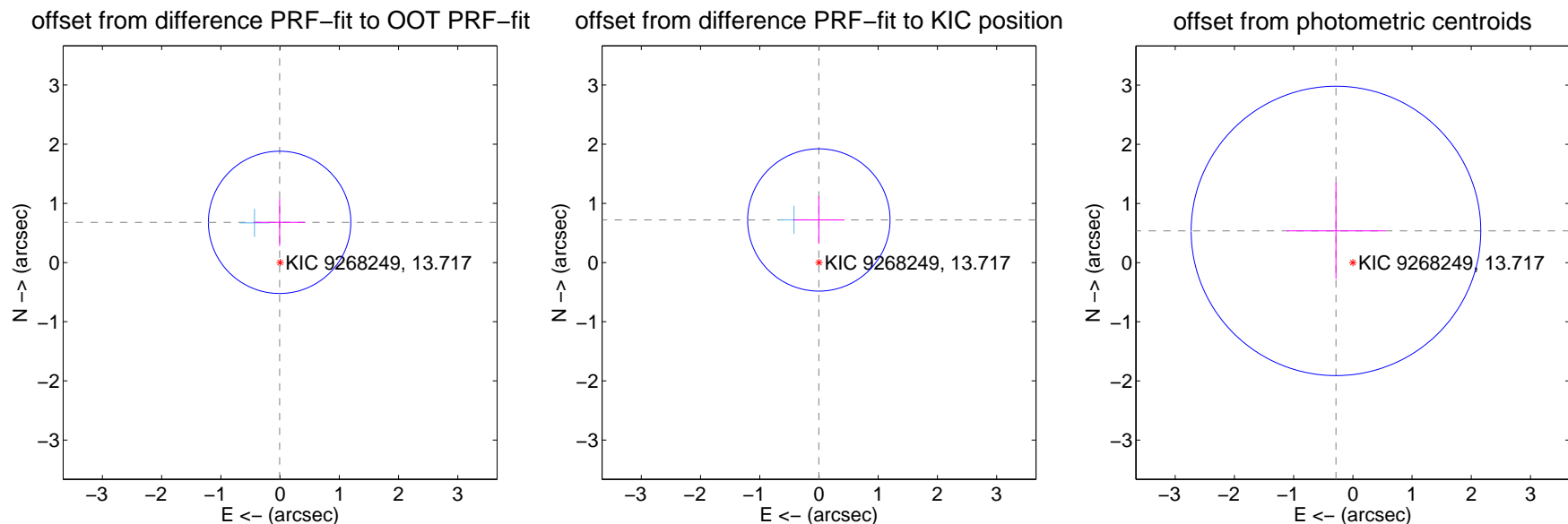
DV Centroid Data

Supplemental centroid analysis for 009268249-04. Kepler magnitude: 13.72. Transit SNR 9.13

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.679 ± 0.401	1.69	0.008 ± 0.431	0.679 ± 0.401
PRF-fit source offset from KIC position	0.719 ± 0.401	1.80	0.002 ± 0.431	0.719 ± 0.401
photometric centroid source offset	0.61 ± 0.82	0.74	0.29 ± 0.83	0.54 ± 0.81

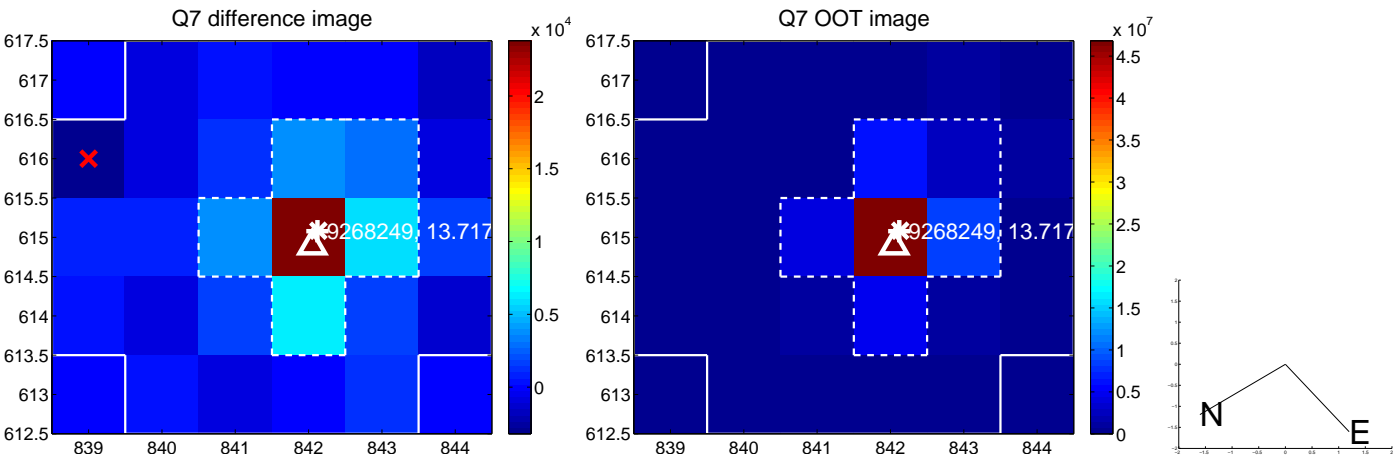
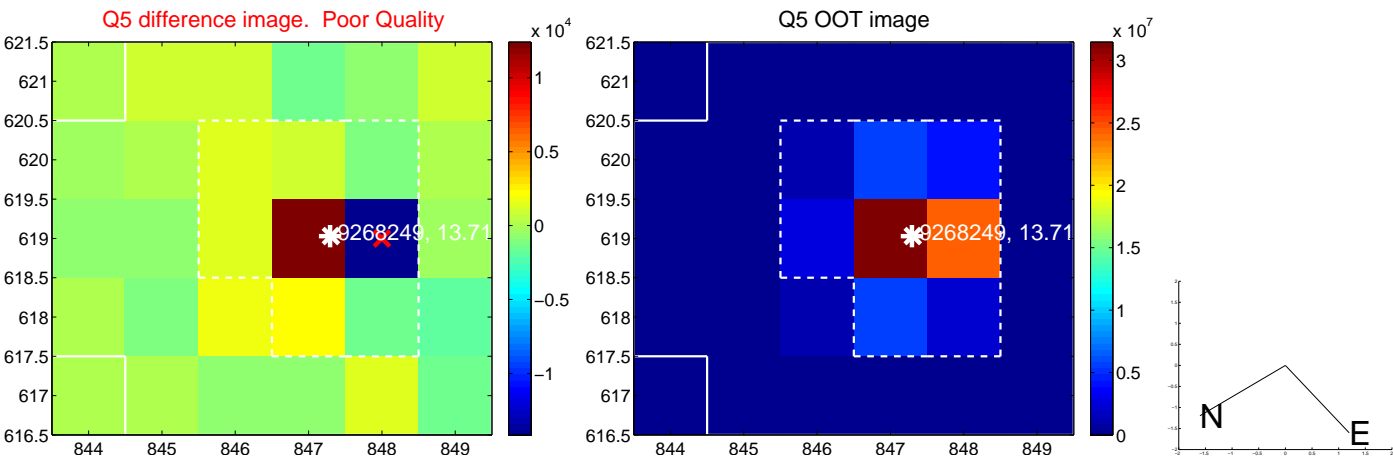


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

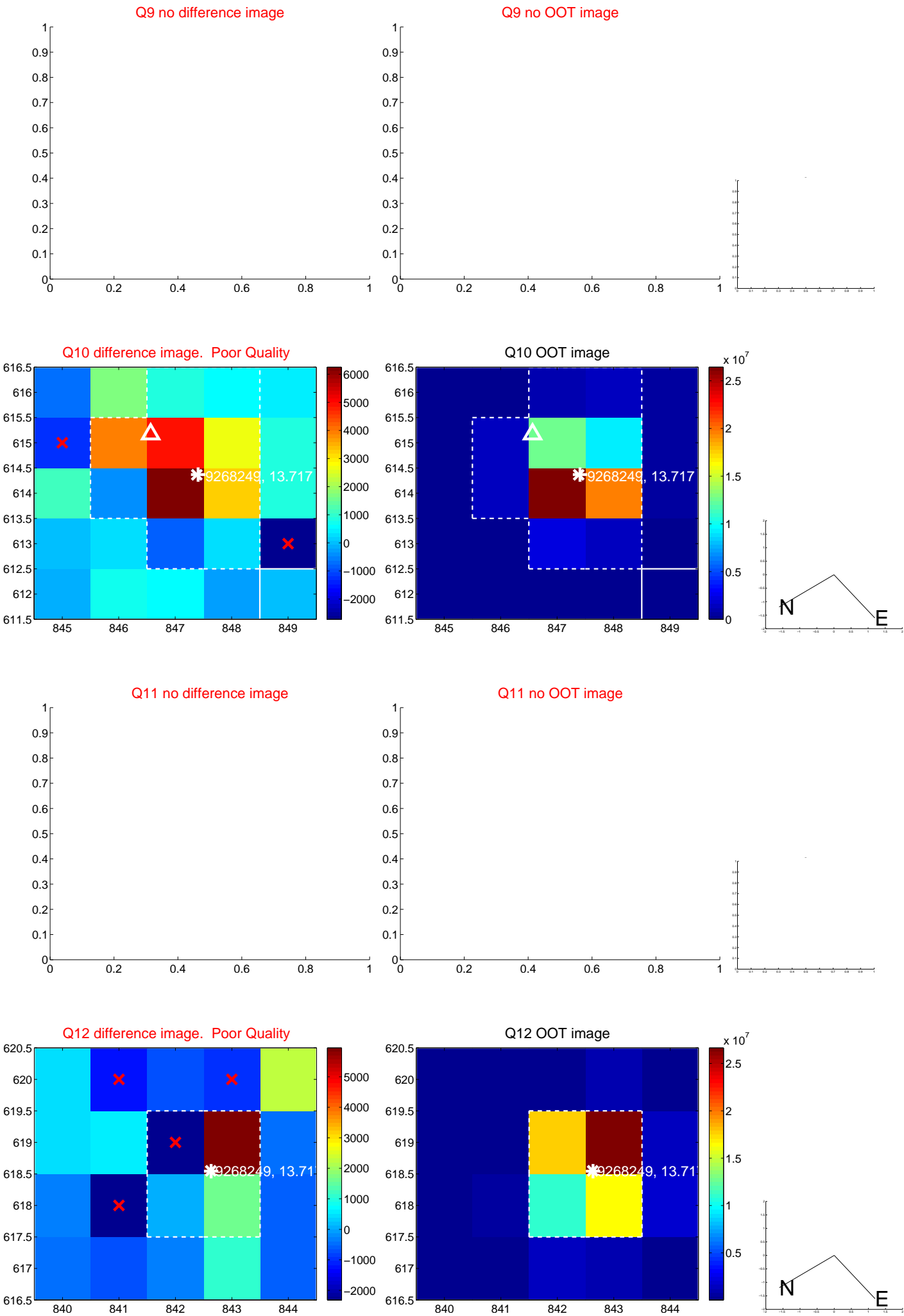
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



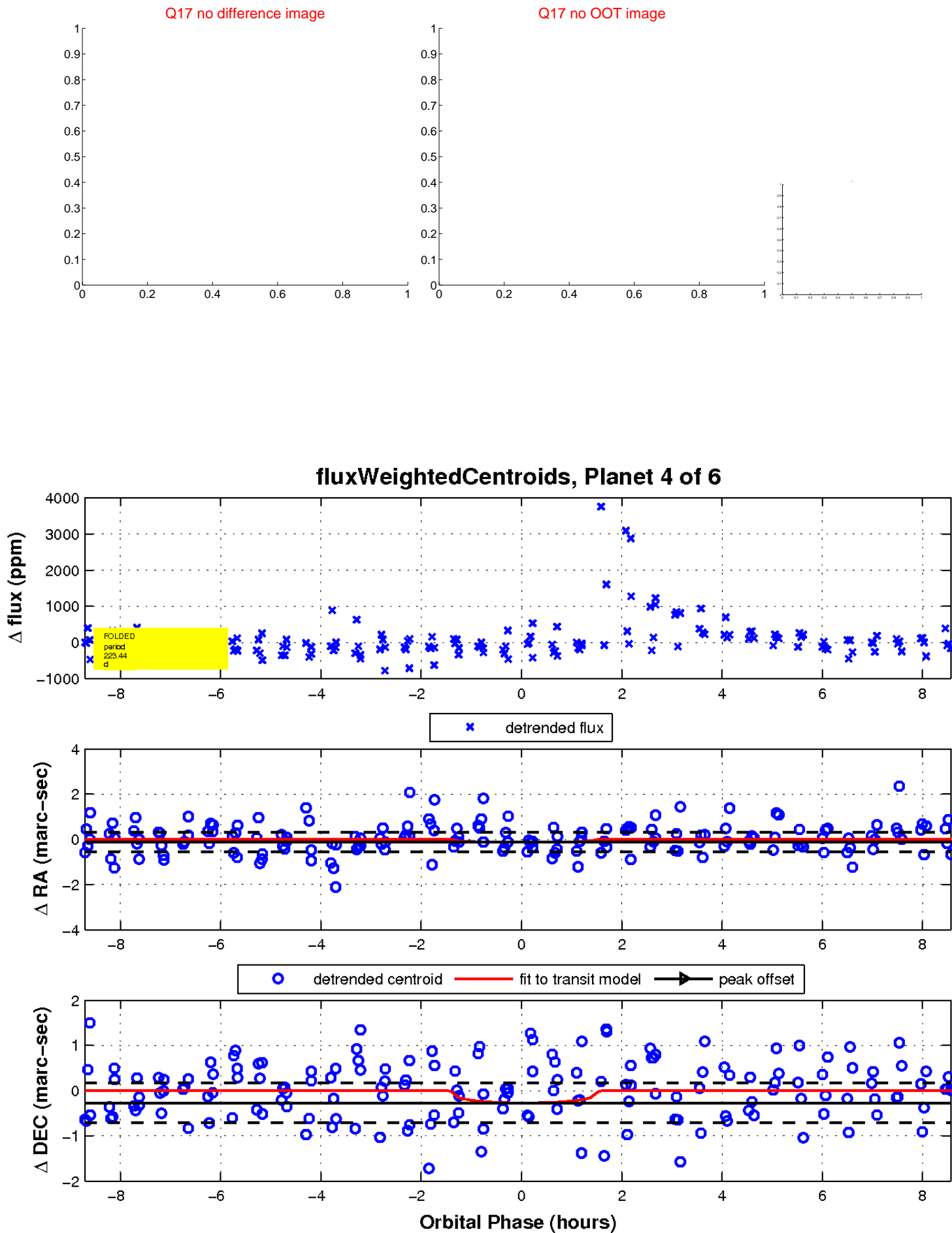
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

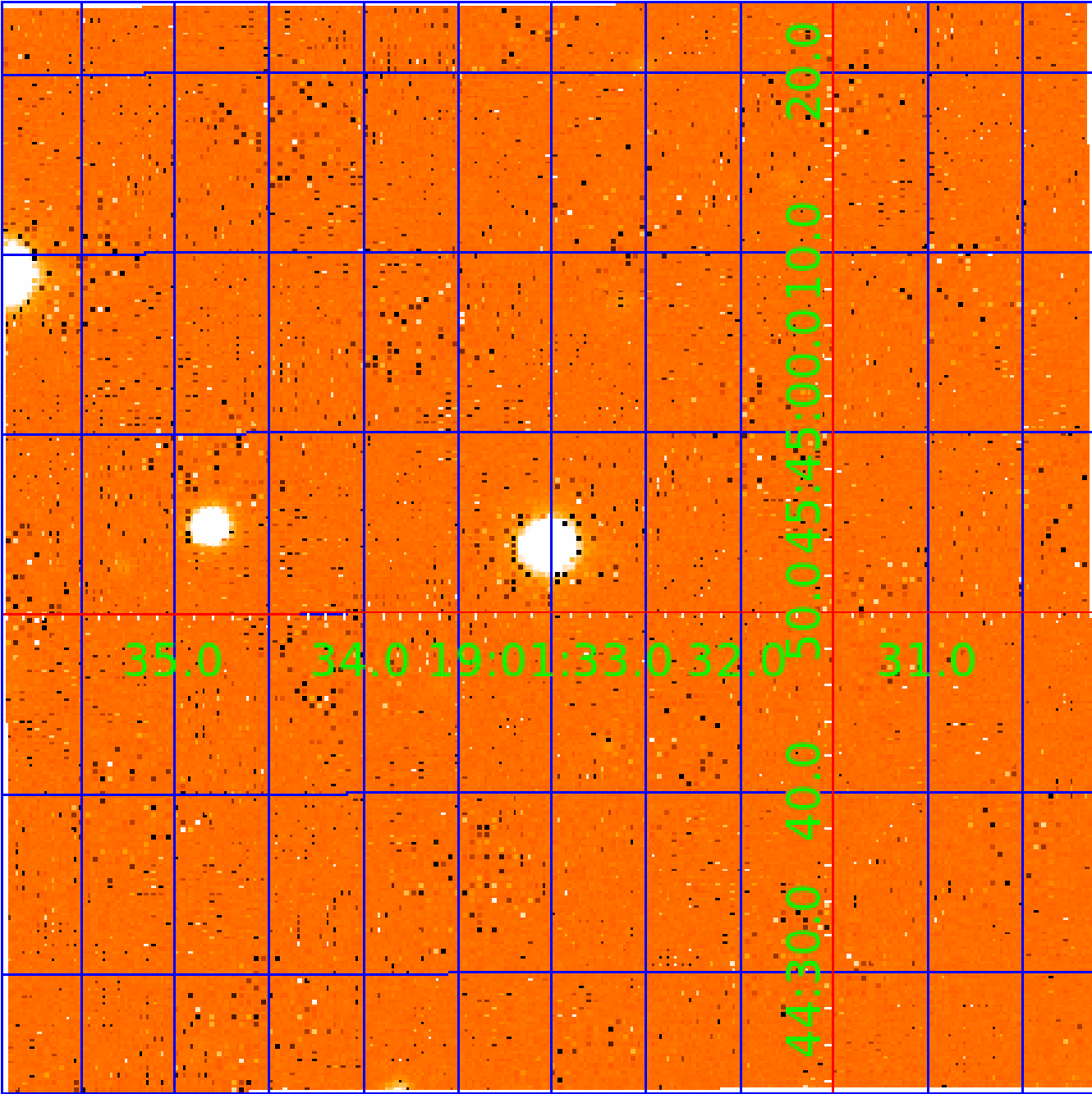


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009268249

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})
009268249-01	OBS	No	376.408585	178.644108	515.7	7.907	11.8	7.4	2.25	4864	5.79	2.21
009268249-02	OBS	No	607.857696	234.390491	1452.6	6.729	14.8	15.7	2.25	4864	9.36	1.17
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009268249-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS
009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

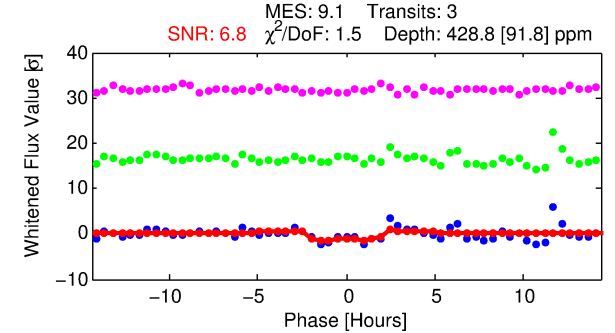
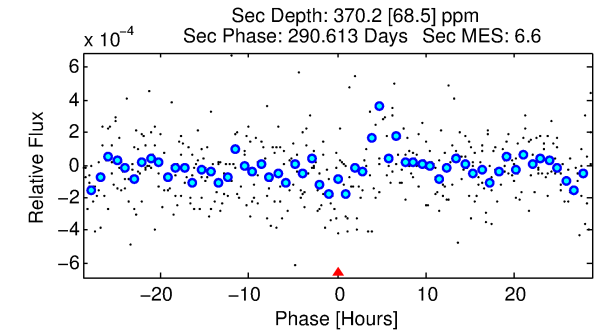
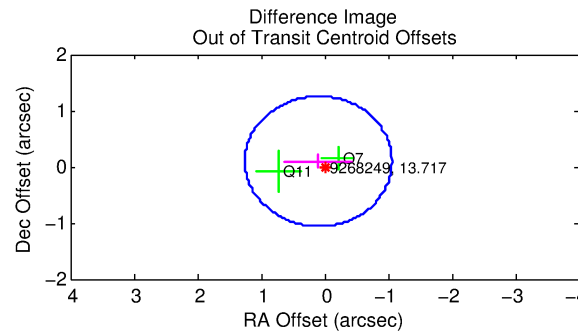
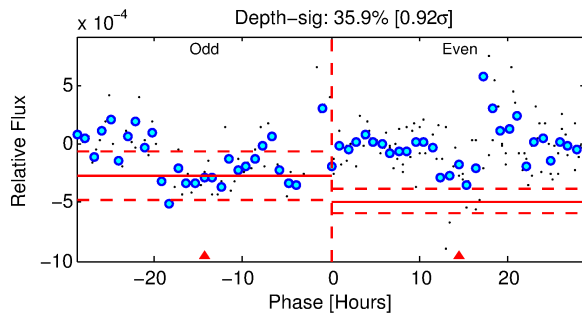
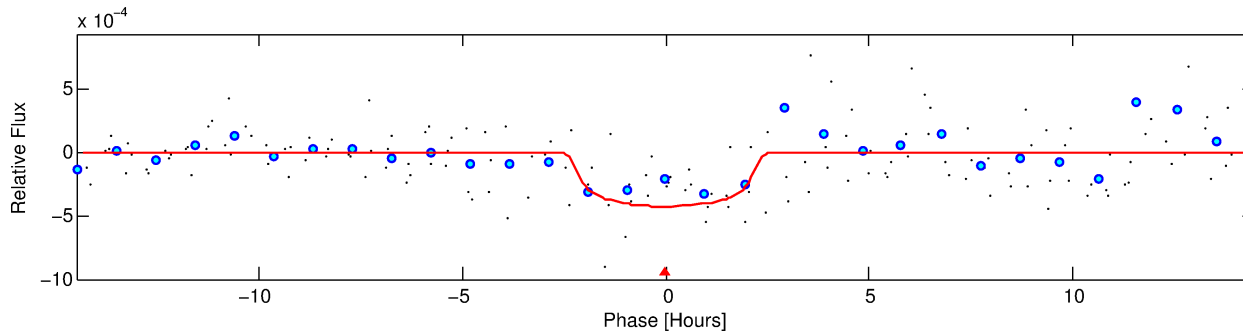
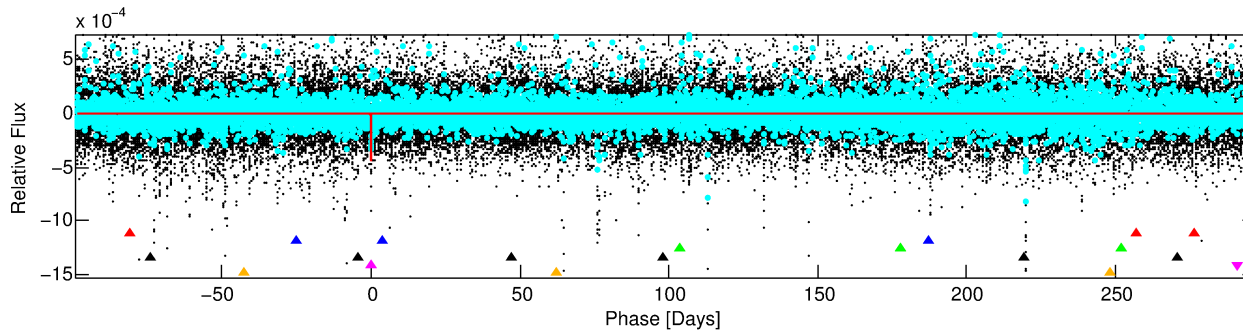
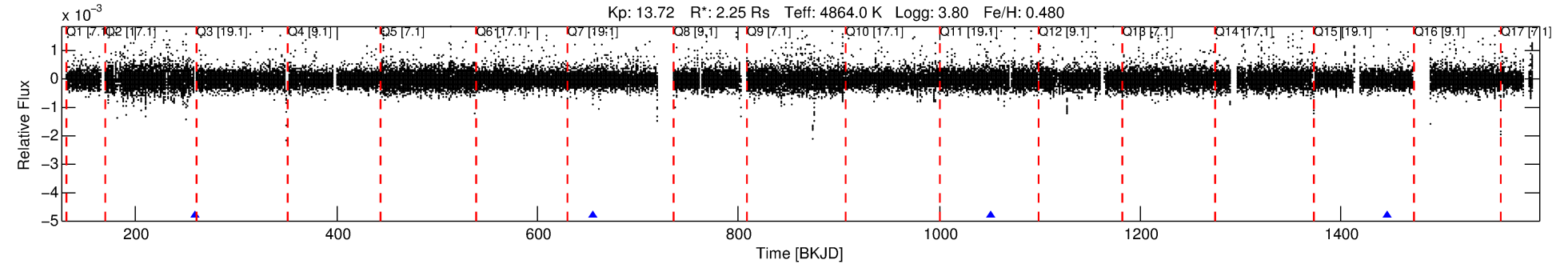
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-05

No Significant Match Found

DV One-Page Summary

KIC: 9268249 Candidate: 5 of 6 Period: 395.713 d



DV Fit Results:

Period = 395.71344 [0.01057] d
Epoch = 259.3689 [0.0263] BKJD
Rp/R* = 0.0227 [0.0113]
a/R* = 333.03 [574.44]
b = 0.87 [0.48]
Seff = 2.07 [2.55]
Teq = 306 [94] K
Rp = 5.55 [4.55] Re
a = 1.1052 [0.7958] AU
Ag = 8078.21 [12892.43] [0.63 σ]
Teffp = 4483 [1149] K [3.62 σ]

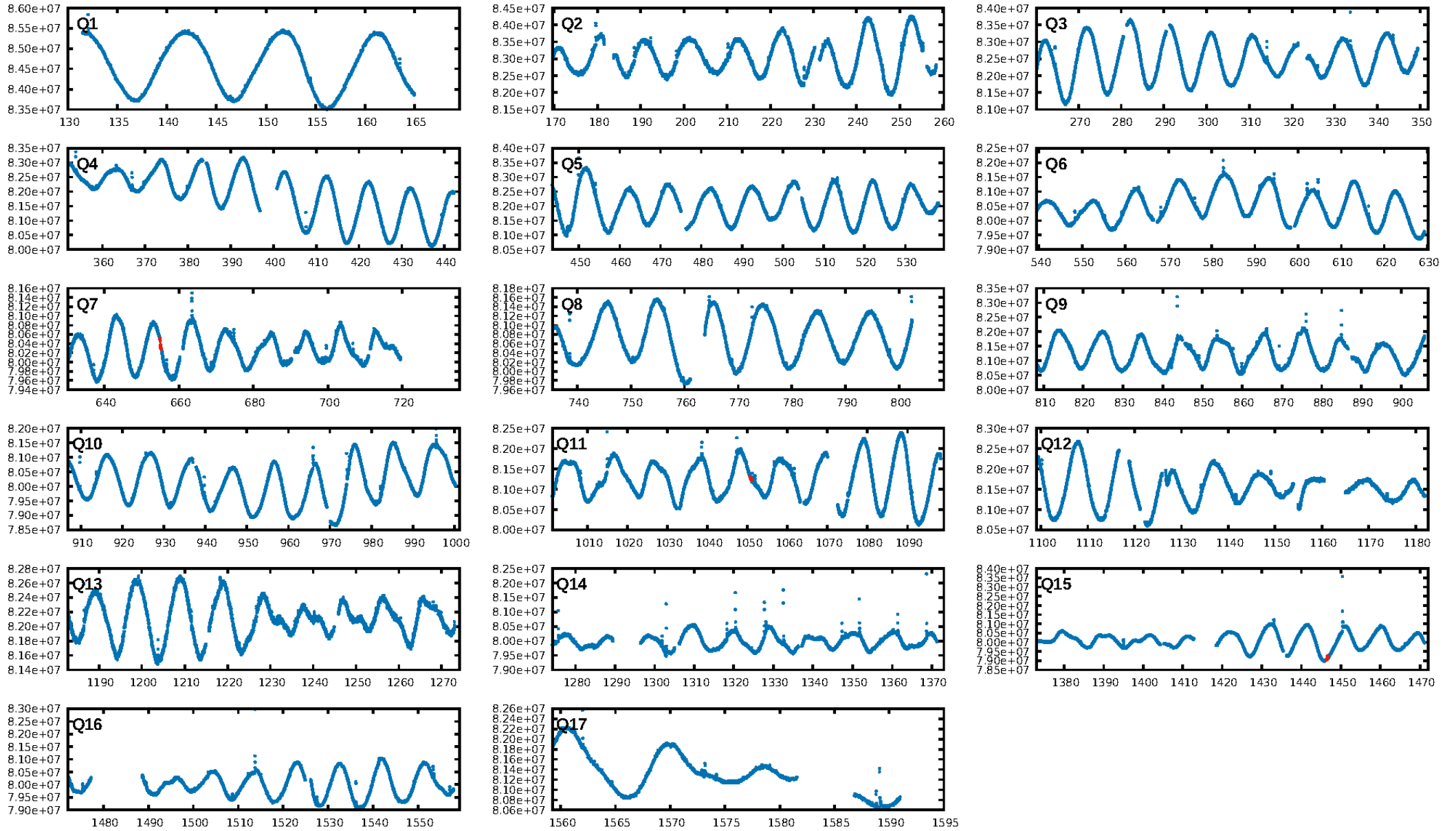
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [50.03 σ]
LongPeriod-sig: 100.0% [271.42 σ]
ModelChiSquare2-sig: 49.1%
ModelChiSquareGof-sig: 86.1%
Bootstrap-pfa: 2.07e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -5.771
Centroid-sig: 68.3%
Centroid-so: 0.601 arcsec [0.64 σ]
OotOffset-rm: 0.136 arcsec [0.35 σ]
KicOffset-rm: 0.187 arcsec [0.58 σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

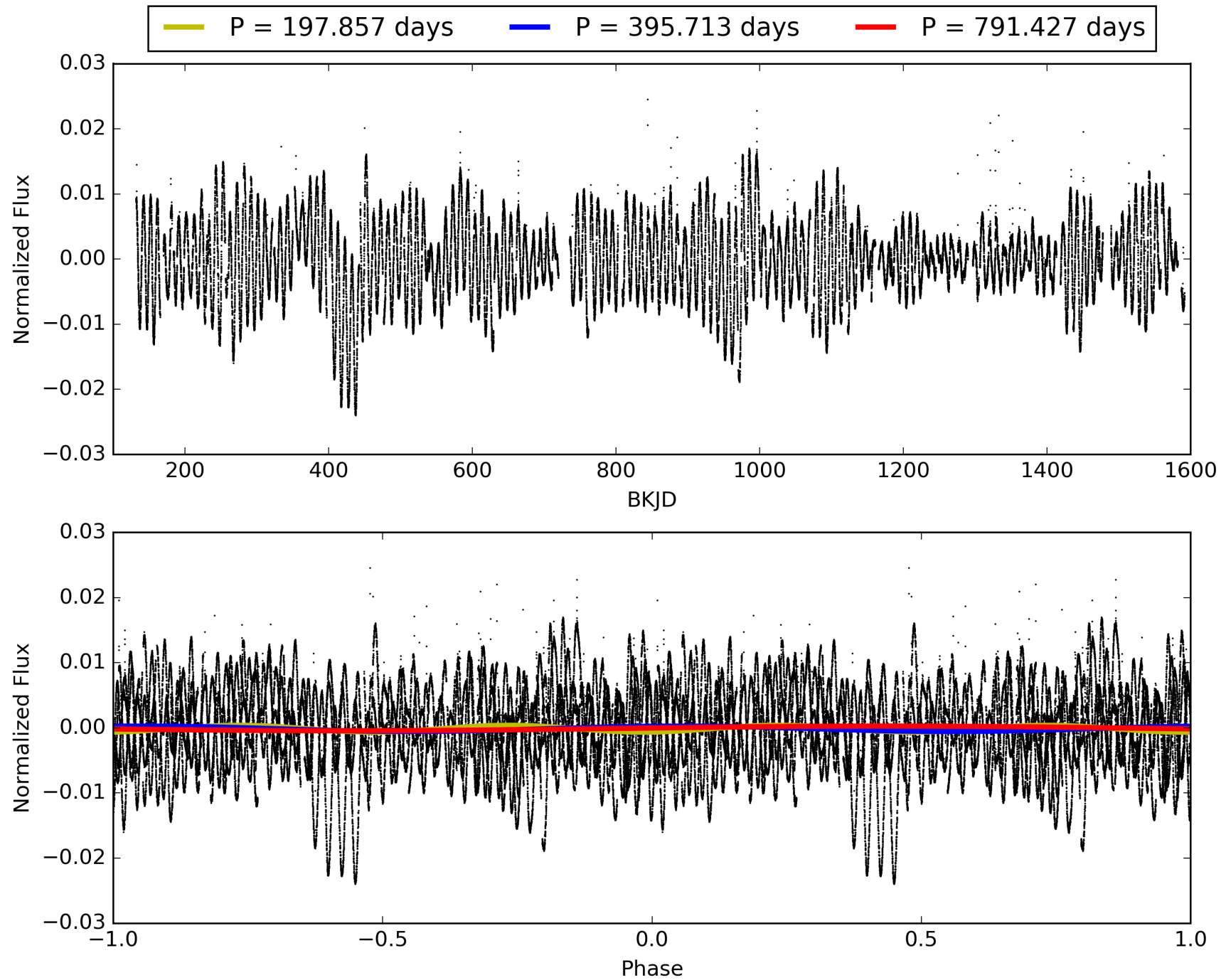
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:41:32 Z

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

TCE 009268249-05, PDC Light Curves

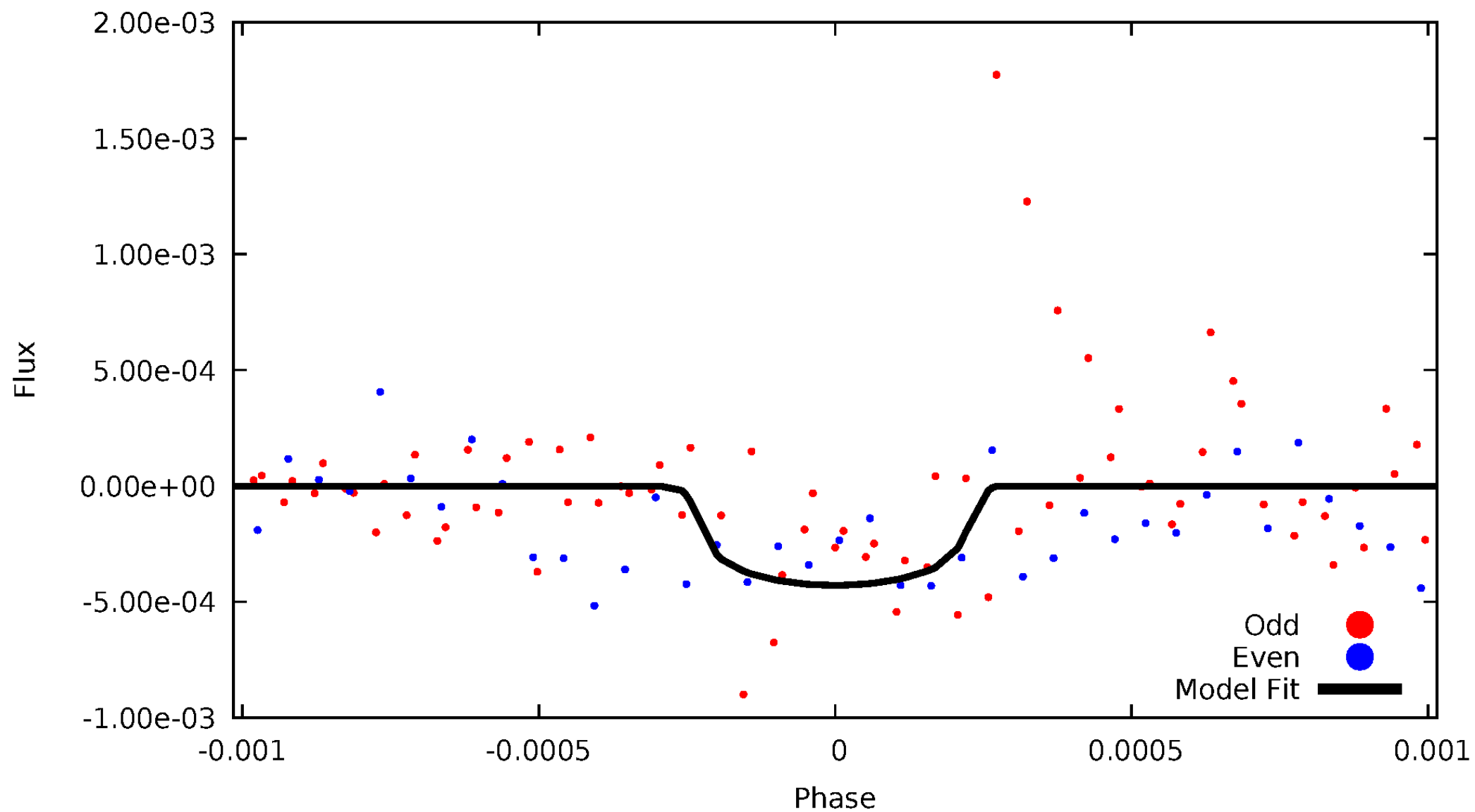


TCE 009268249-05



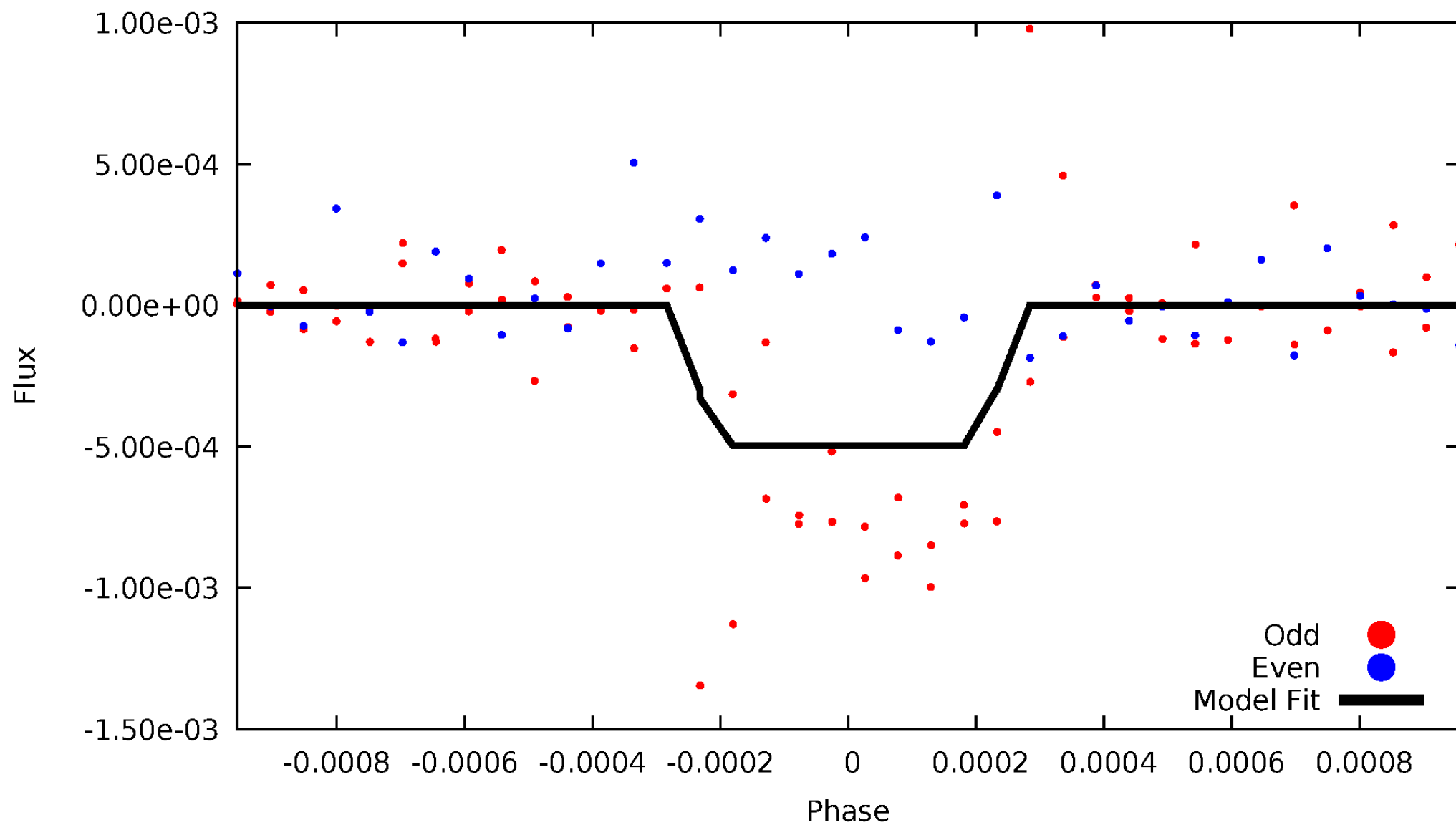
DV Odd/Even

TCE 009268249-05



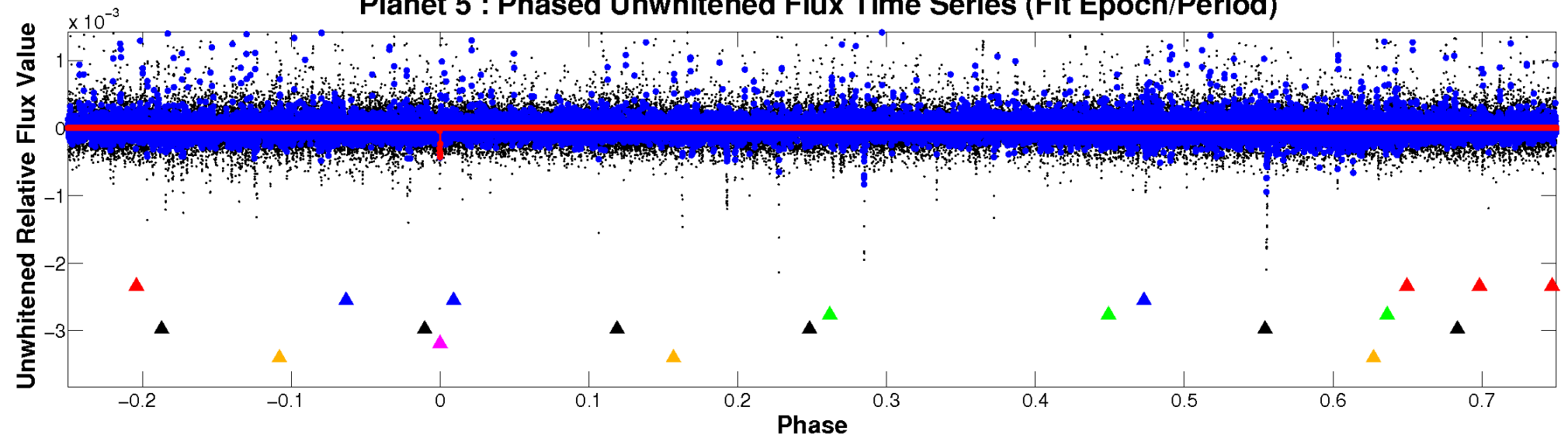
ALT Odd/Even

TCE 009268249-05

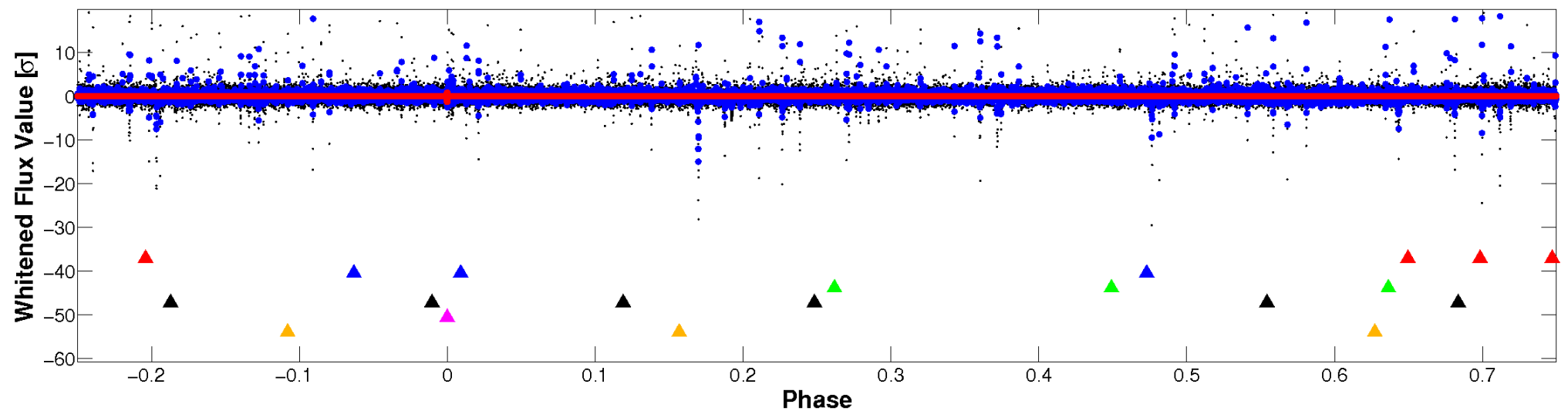


Non-Whitened Vs. Whitened Light Curve

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

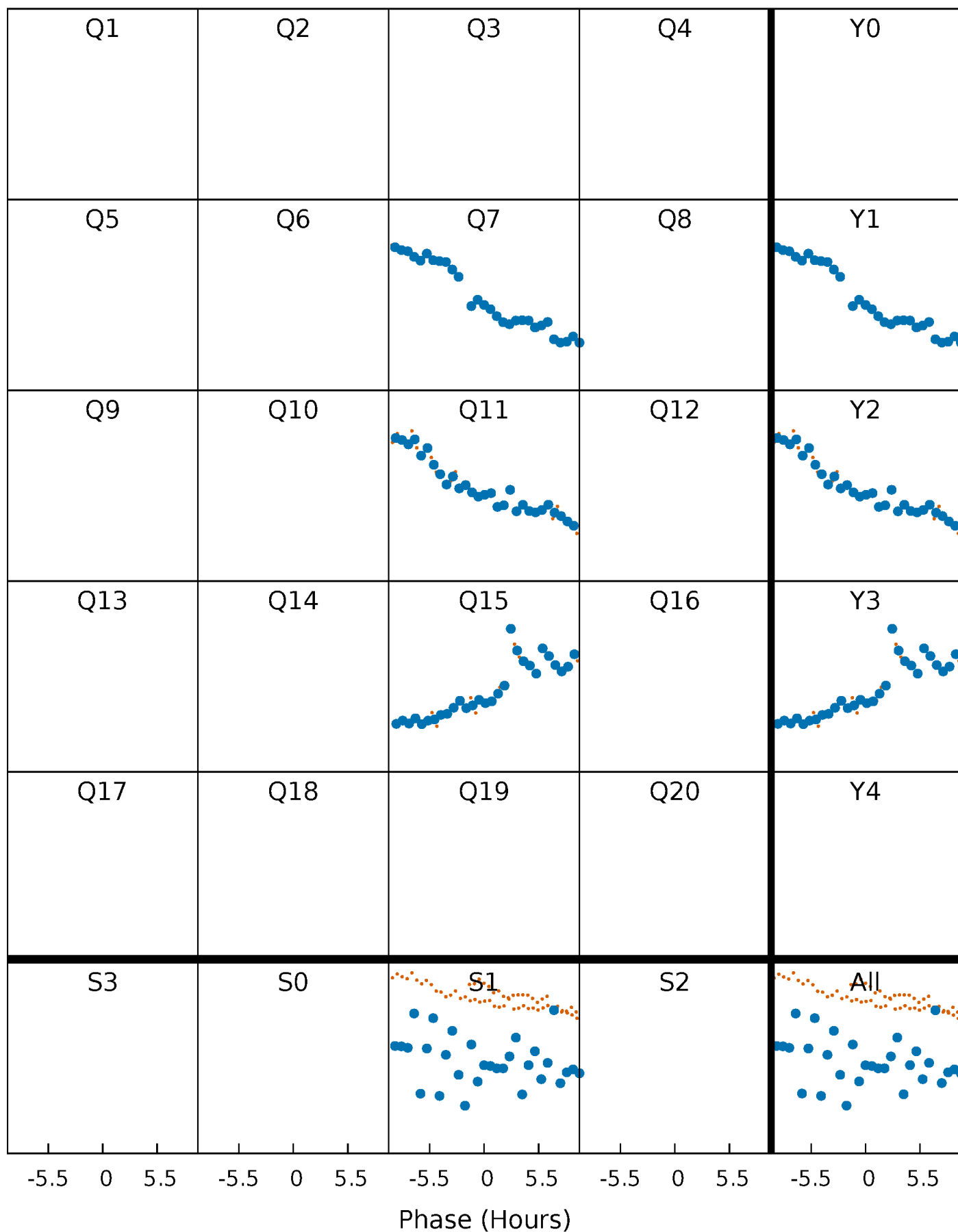


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



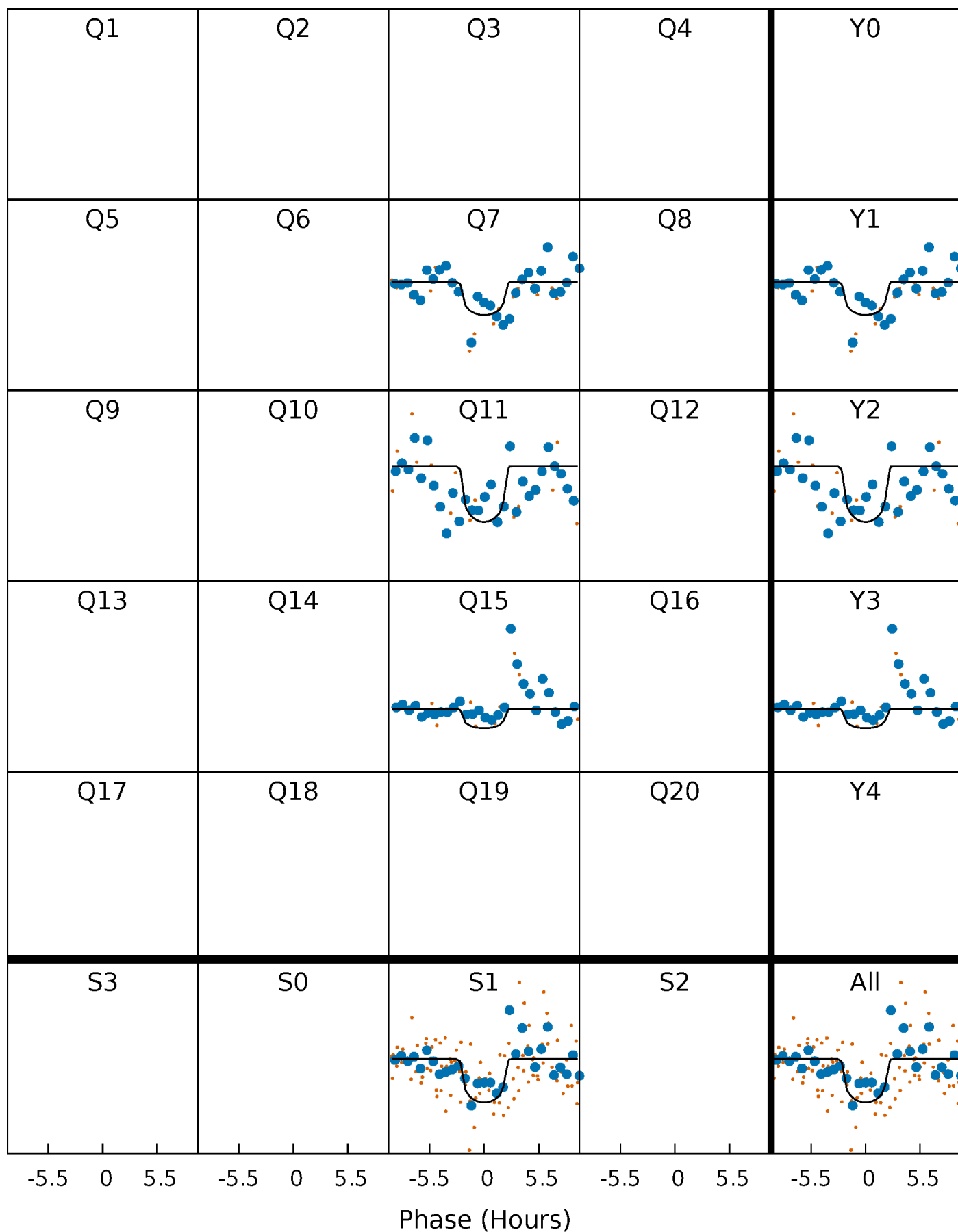
PDC Quarter-Phased Transit Curves

TCE 009268249-05 $P=395.713443$ Days $T_0=259.368943$ (BKJD)



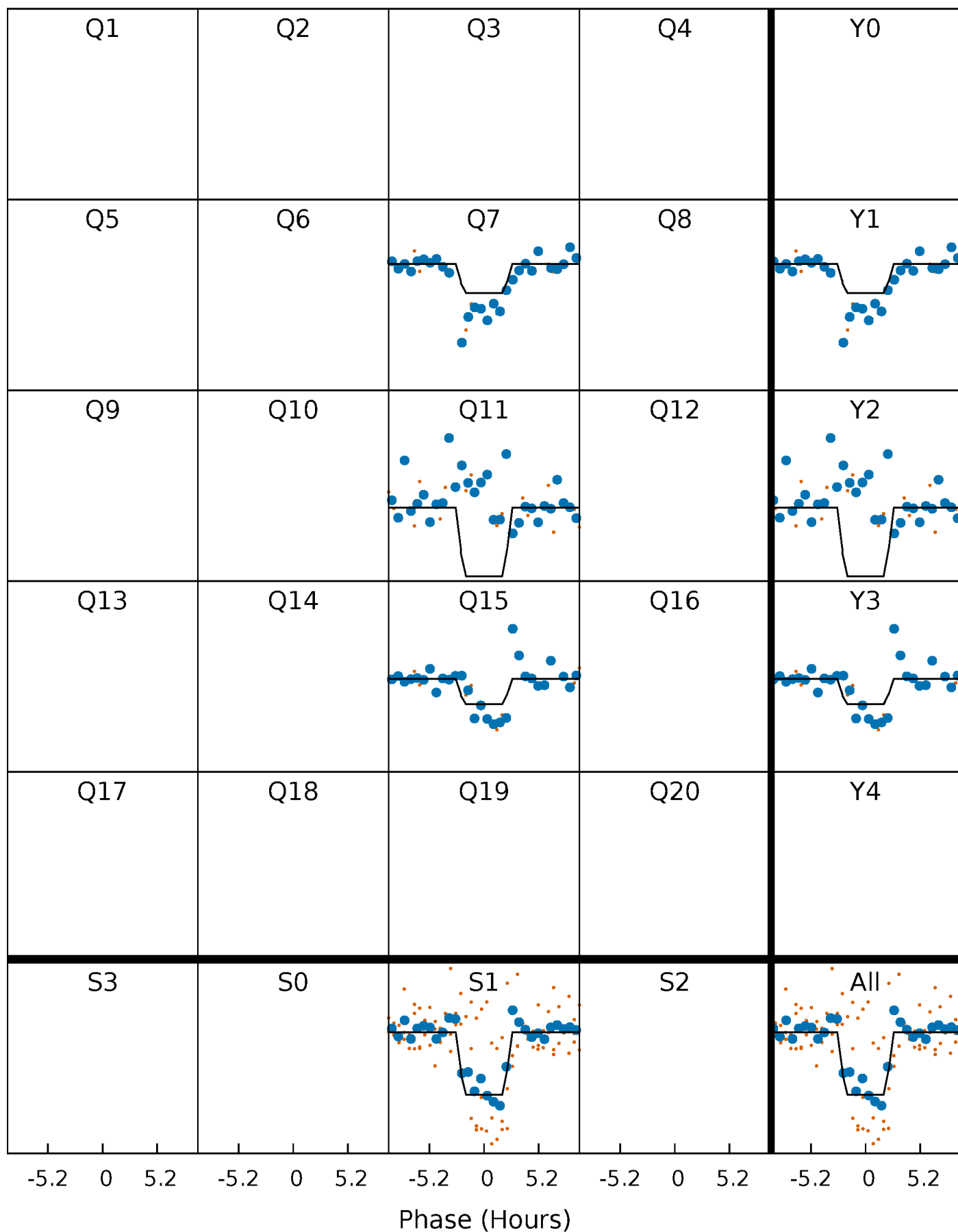
DV Quarter-Phased Transit Curves

TCE 009268249-05 $P=395.713443$ Days $T_0=259.368943$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

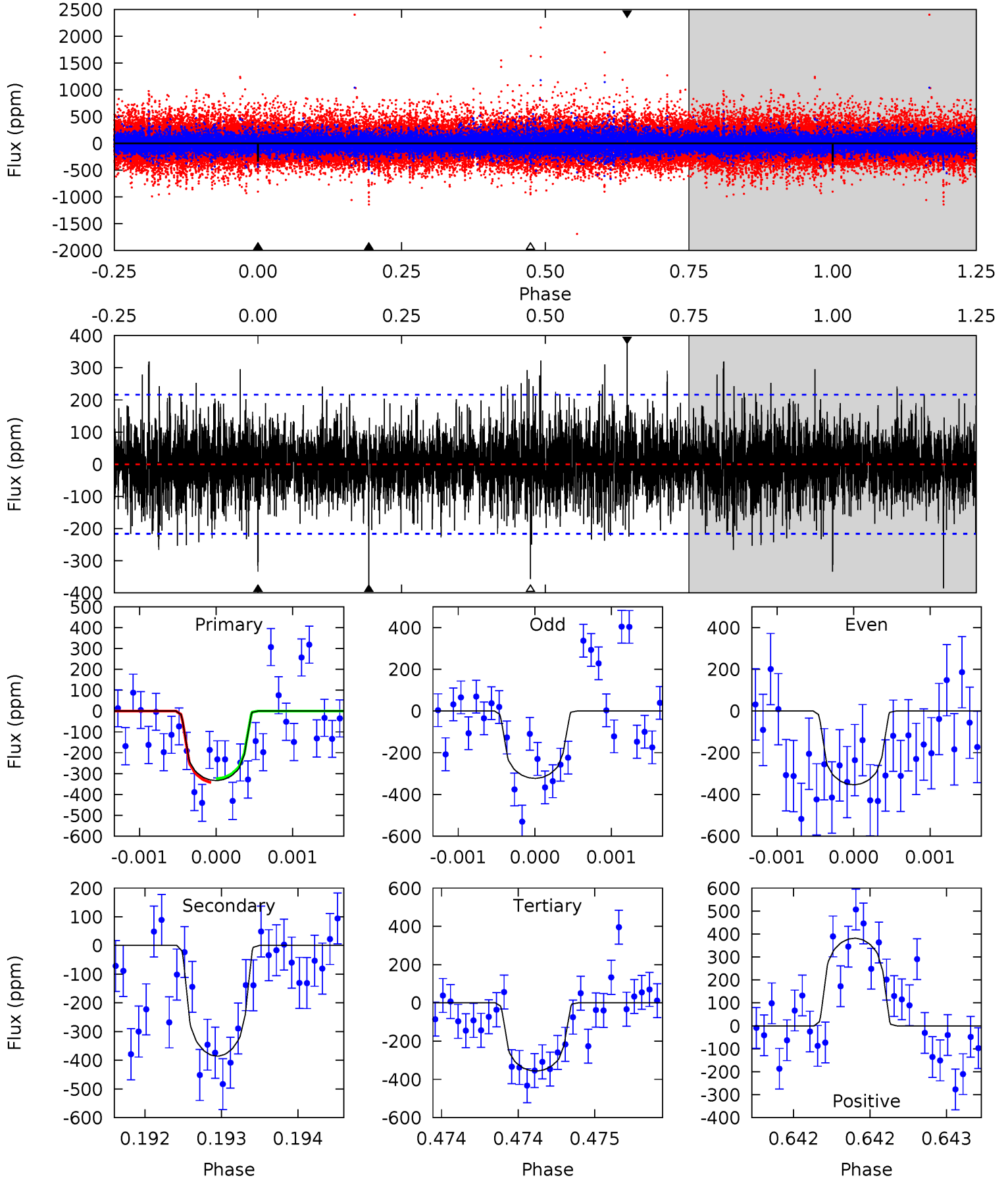
TCE 009268249-05 $P=395.695889$ Days $T_0=259.416957$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-05, P = 395.713443 Days, E = 259.368943 Days

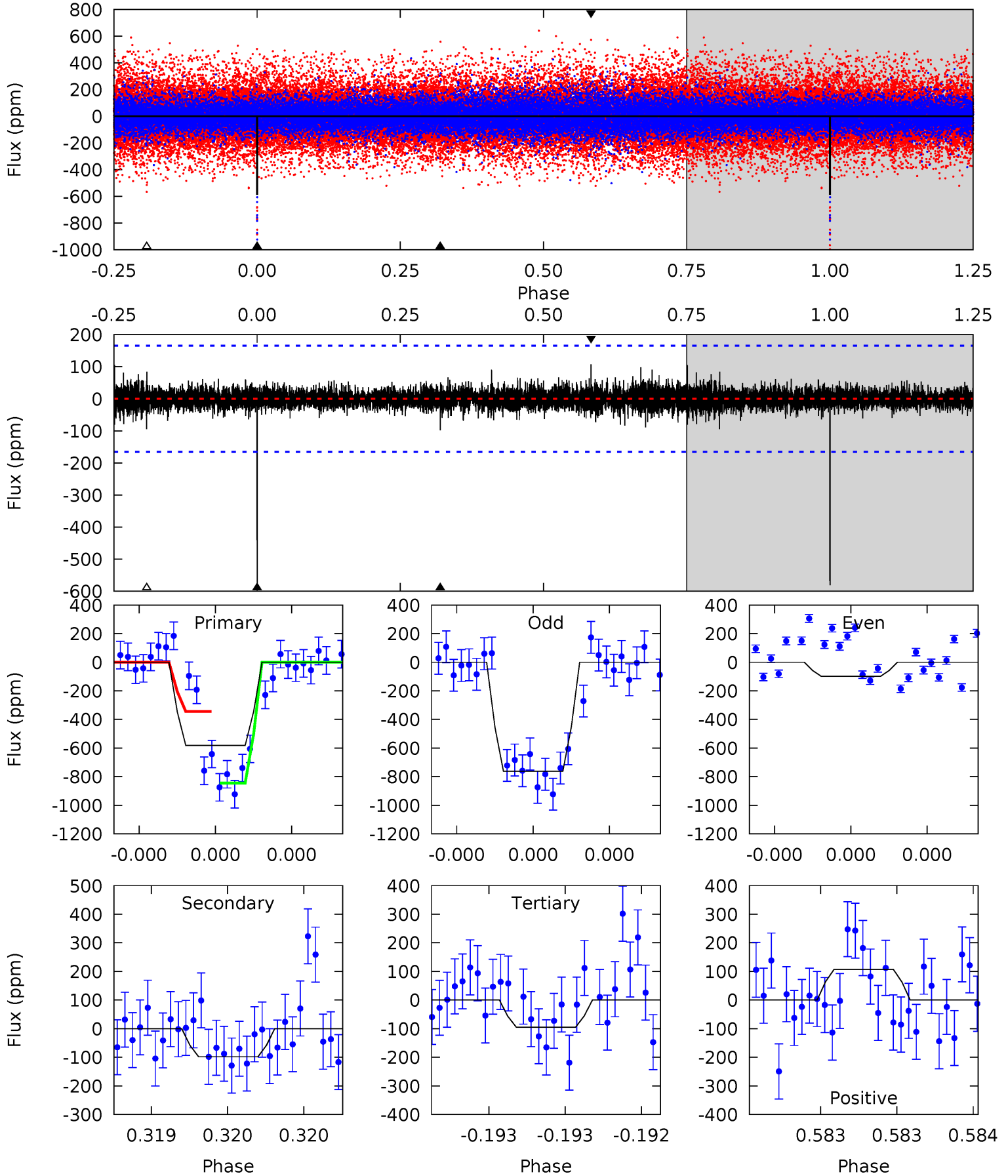
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.56	9.91	9.15	9.80	5.55	3.45	1.88	-0.59	-1.24	0.76	0.11	0.33	0.95	0.50	0.23



Alt Model-Shift Uniqueness Test

009268249-05, P = 395.695889 Days, E = 259.416957 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.6	3.31	3.19	3.62	5.59	3.50	0.61	16.4	16.0	0.12	-0.30	12.3	0.73	0.16	8.48



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-386 ± 39	$5.07^{+3.65}_{-2.60}$	424^{+60}_{-77}	4563^{+1433}_{-624}	9785^{+31453}_{-6412}
Alt.	-98 ± 30	$4.79^{+3.52}_{-2.49}$	428^{+53}_{-85}	3599^{+962}_{-444}	2617^{+10123}_{-1772}

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

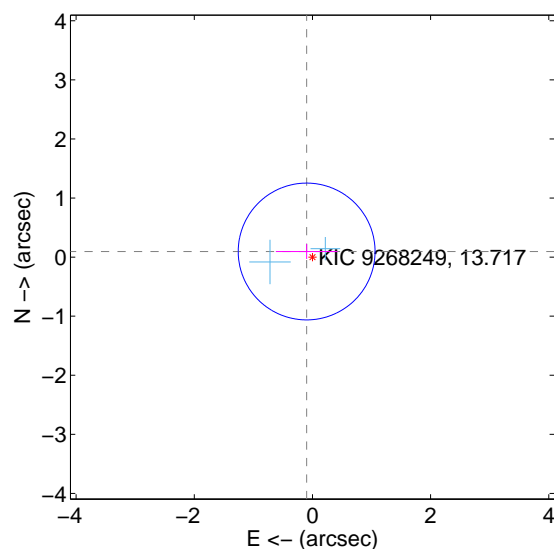
Supplemental centroid analysis for 009268249-05. Kepler magnitude: 13.72. Transit SNR 6.78

There are 2 quarters with good PRF difference image offsets

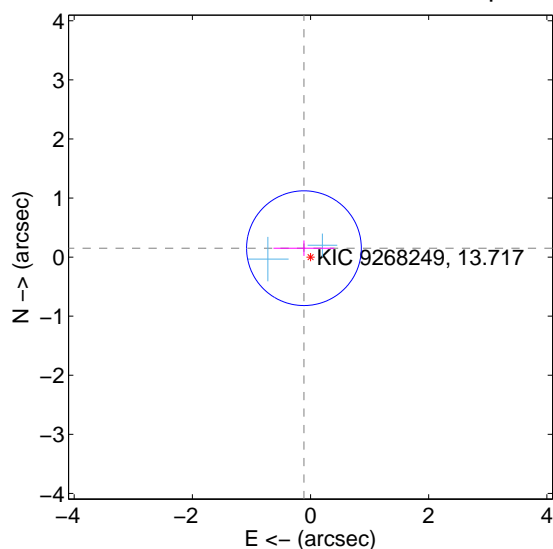
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.136 ± 0.386	0.35	0.098 ± 0.522	0.095 ± 0.127
PRF-fit source offset from KIC position	0.187 ± 0.324	0.58	0.111 ± 0.515	0.151 ± 0.131
photometric centroid source offset	0.60 ± 0.94	0.64	0.59 ± 0.94	0.13 ± 0.97

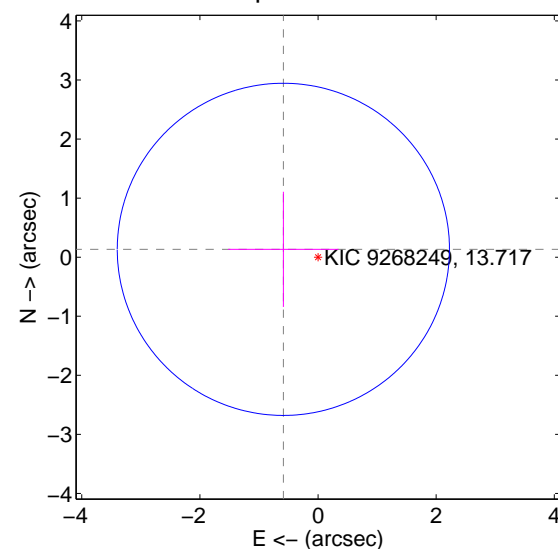
offset from difference PRF-fit to OOT PRF-fit



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.

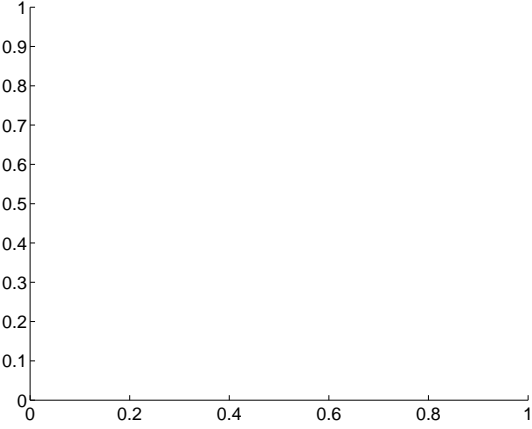
Q5 no difference image



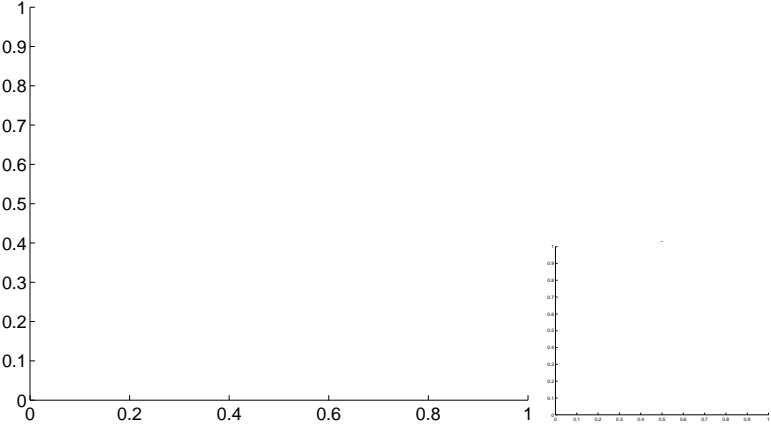
Q5 no OOT image



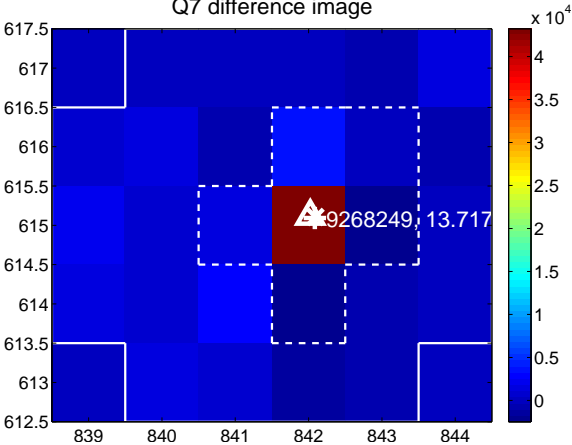
Q6 no difference image



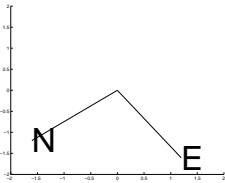
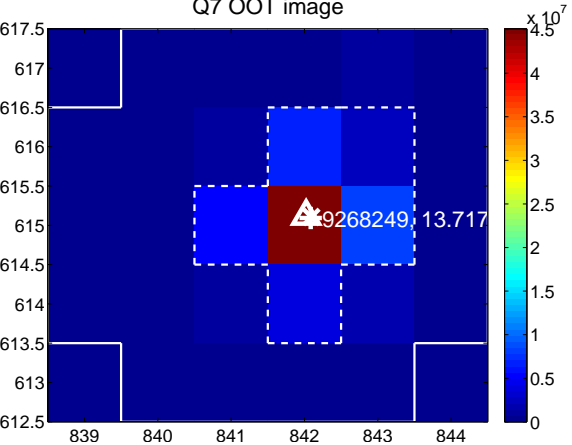
Q6 no OOT image



Q7 difference image



Q7 OOT image



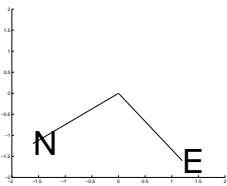
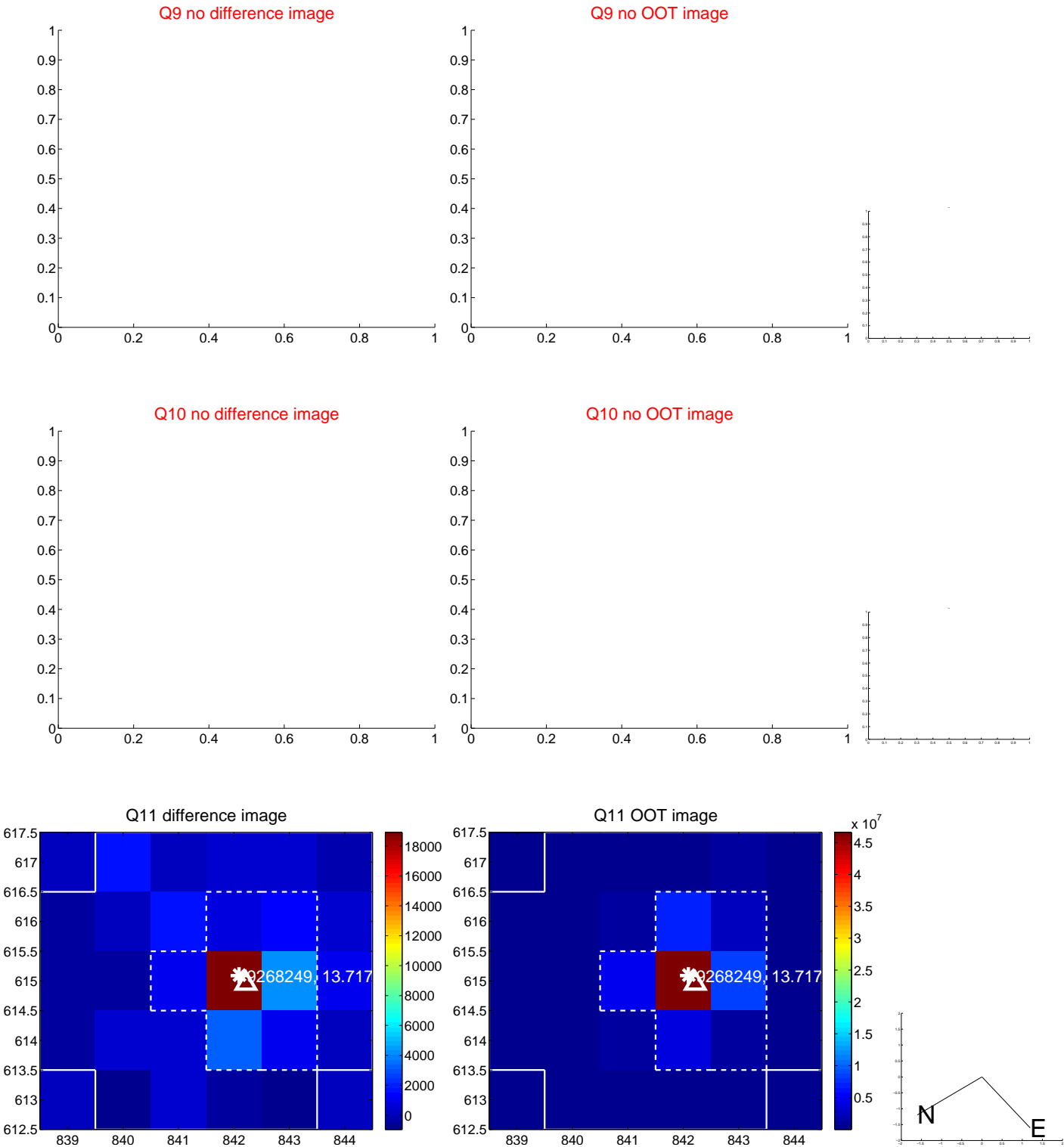
Q8 no difference image



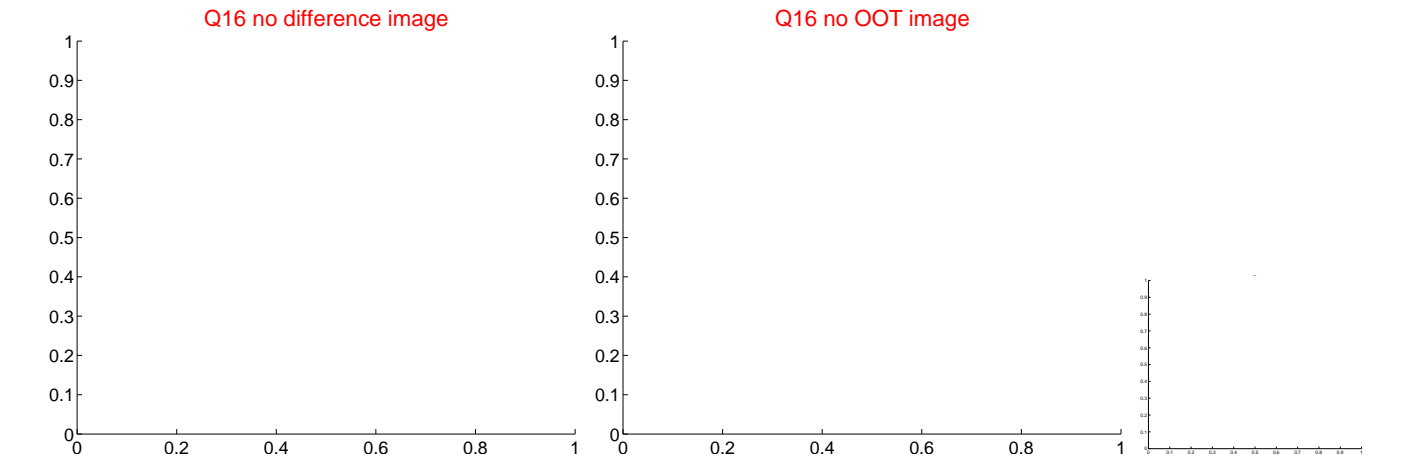
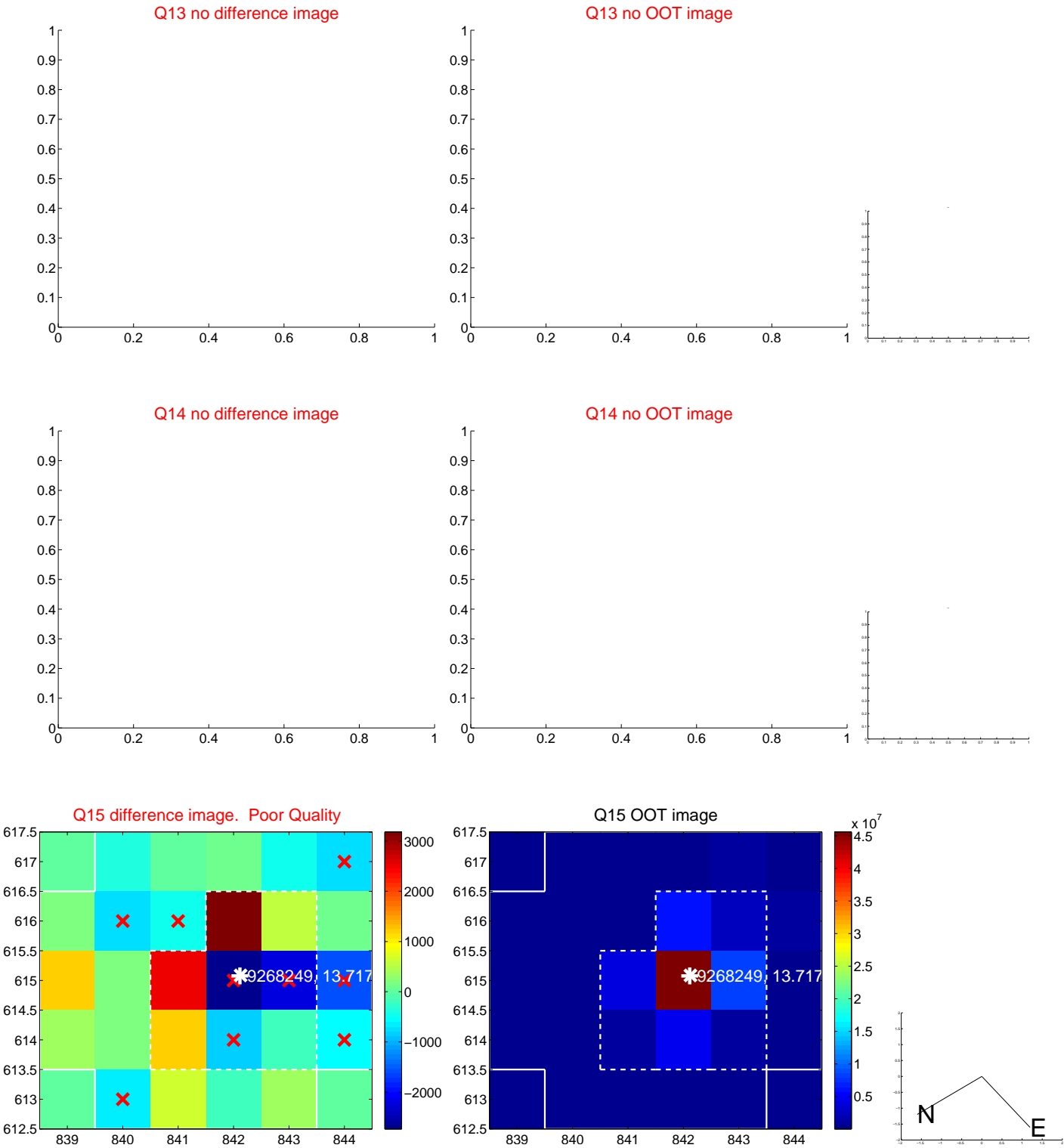
Q8 no OOT image



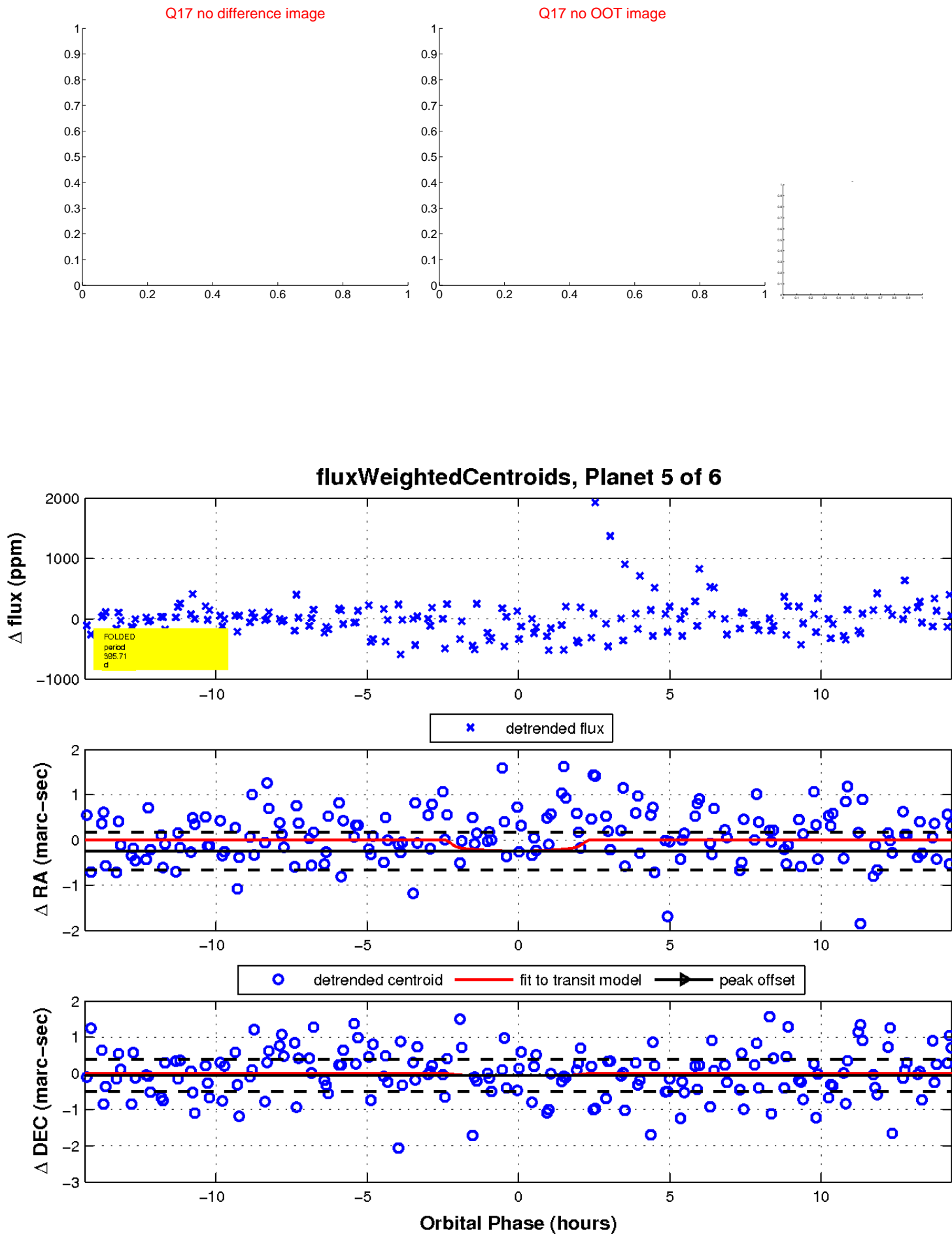
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

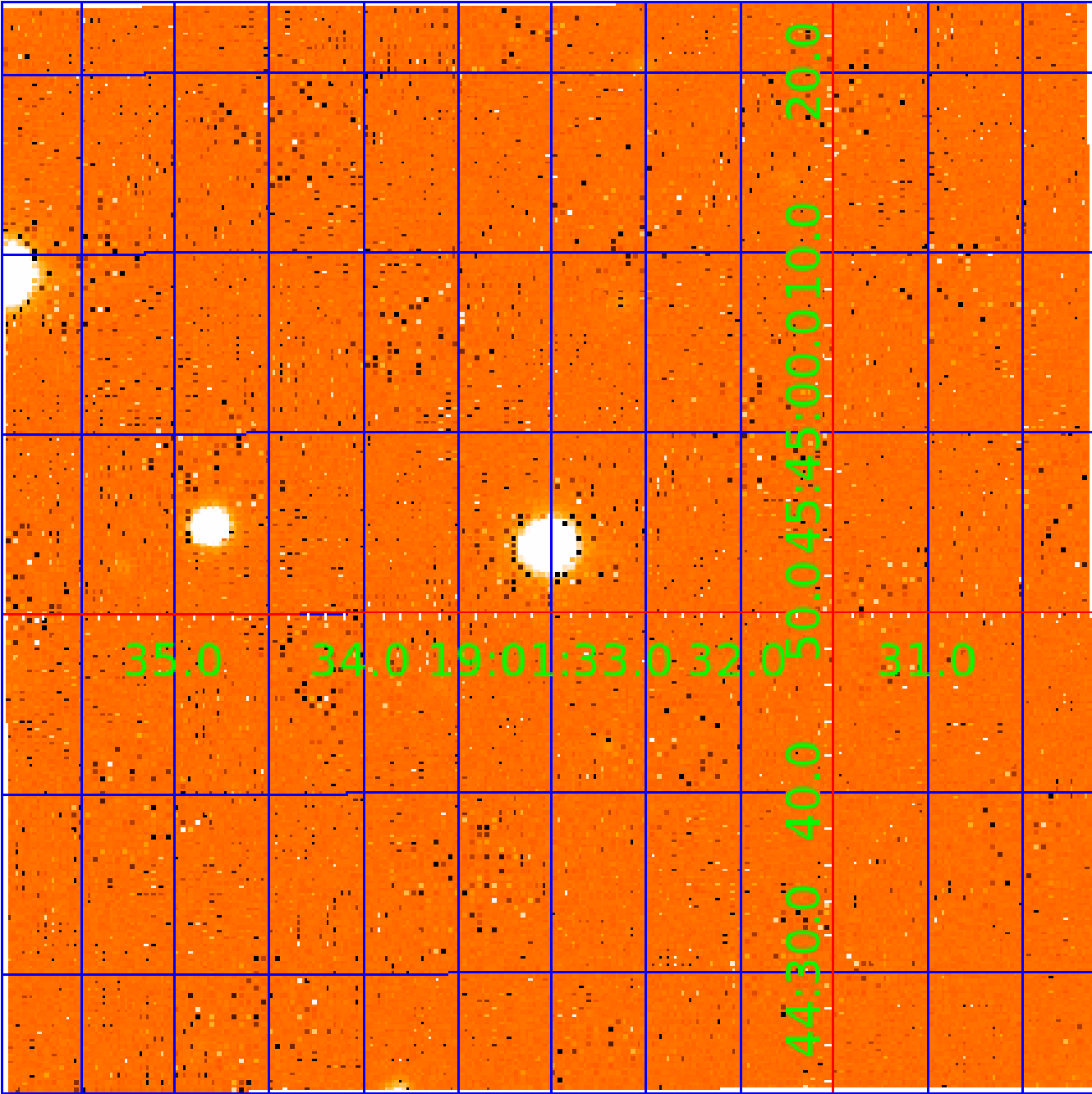


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 009268249

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})
009268249-01	OBS	No	376.408585	178.644108	515.7	7.907	11.8	7.4	2.25	4864	5.79	2.21
009268249-02	OBS	No	607.857696	234.390491	1452.6	6.729	14.8	15.7	2.25	4864	9.36	1.17
009268249-03	OBS	No	469.820098	362.986560	283.7	4.441	10.8	3.6	2.25	4864	4.92	1.65
009268249-04	OBS	No	223.441539	255.273241	499.2	2.964	10.5	9.1	2.25	4864	5.45	4.43
009268249-05	OBS	No	395.713443	259.368943	428.8	4.819	9.1	6.8	2.25	4864	5.55	2.07
009268249-06	OBS	No	500.503980	507.579570	560.7	5.138	11.5	6.2	2.25	4864	5.78	1.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009268249-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—INCONSISTENT_TRANS
009268249-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—CENT_FEW_DIFFS
009268249-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_MEAS
009268249-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
009268249-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

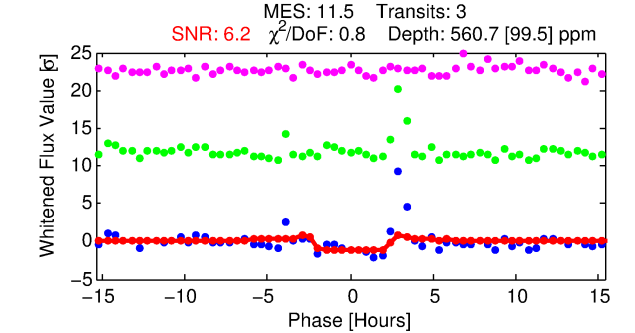
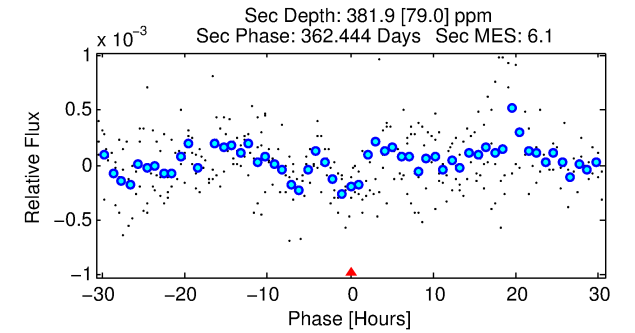
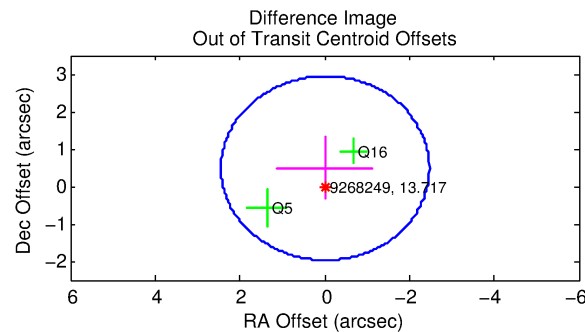
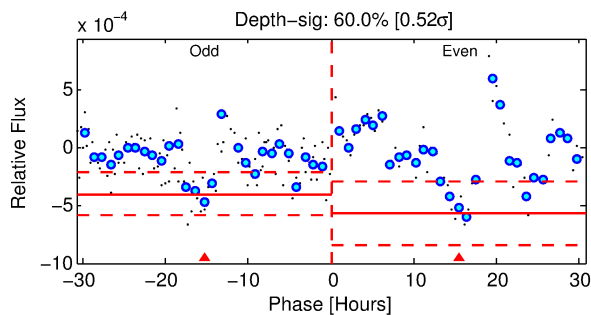
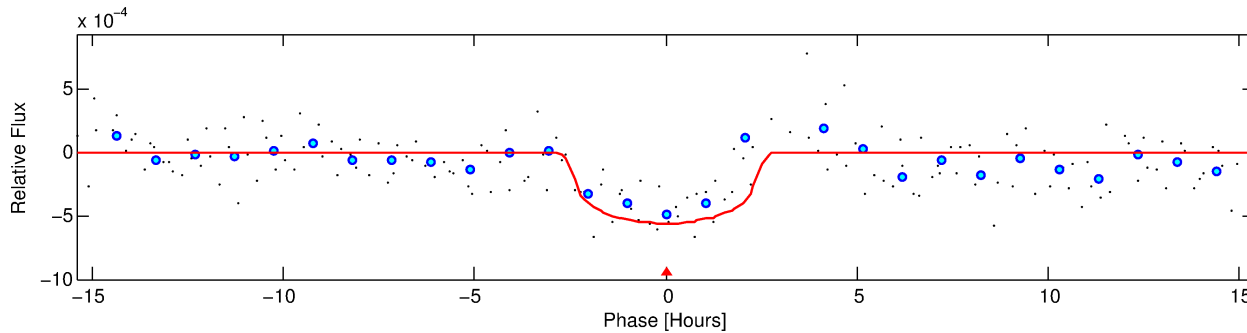
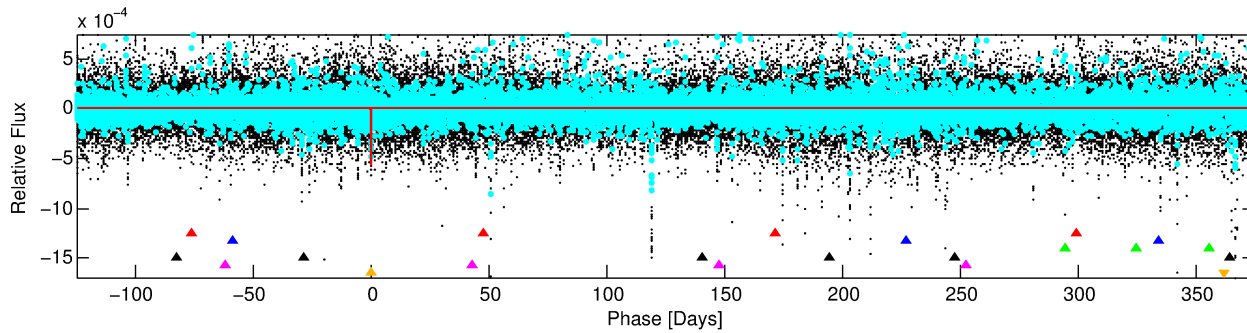
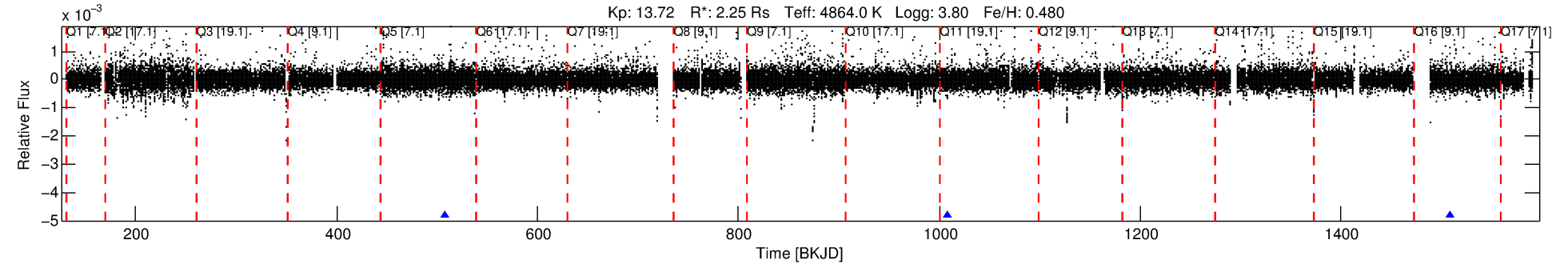
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 009268249-06

No Significant Match Found

DV One-Page Summary

KIC: 9268249 Candidate: 6 of 6 Period: 500.504 d



DV Fit Results:

Period = 500.50398 [0.00596] d
Epoch = 507.5796 [0.0084] BKJD
Rp/R* = 0.0236 [0.0162]
a/R* = 524.50 [1177.42]
b = 0.74 [1.38]
Seff = 1.51 [1.87]
Teq = 283 [87] K
Rp = 5.78 [5.46] Re
a = 1.2925 [0.9307] AU
Ag = 10495.99 [19444.62] [0.54σ]
Teffp = 4426 [1540] K [2.69σ]

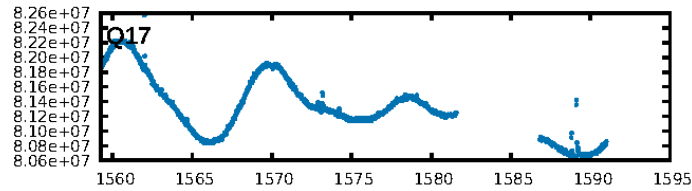
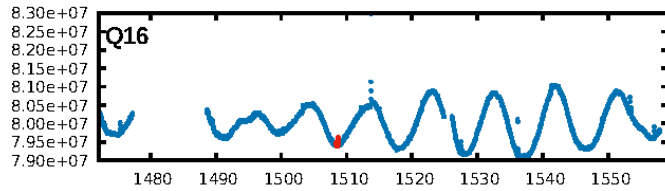
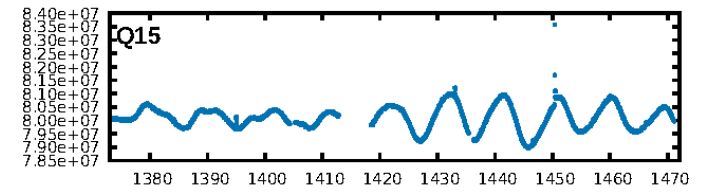
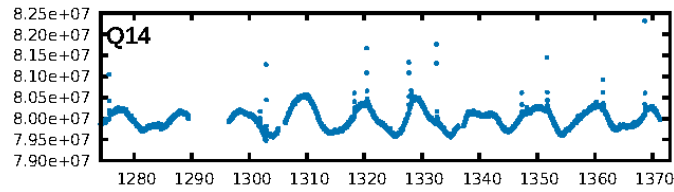
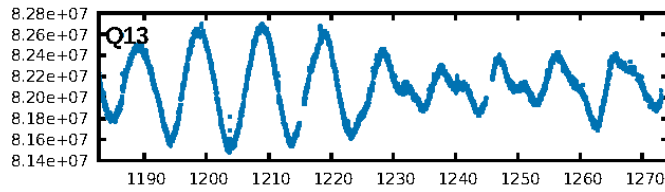
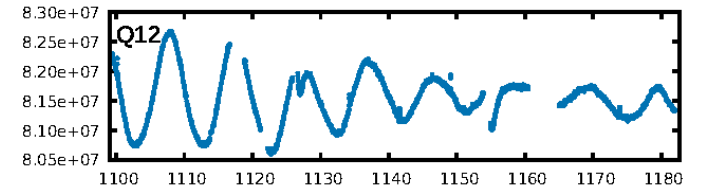
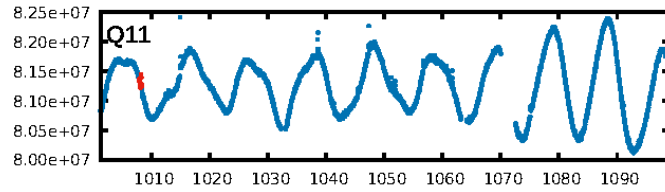
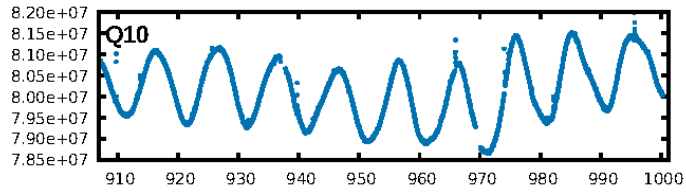
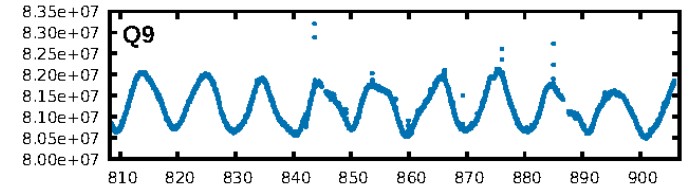
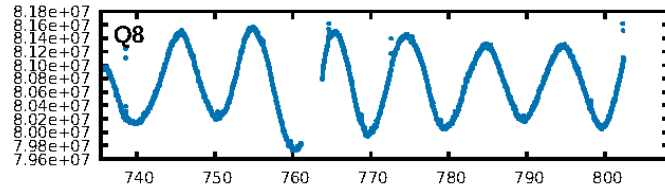
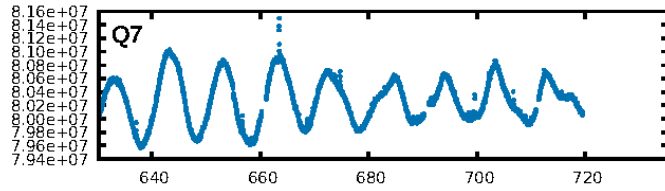
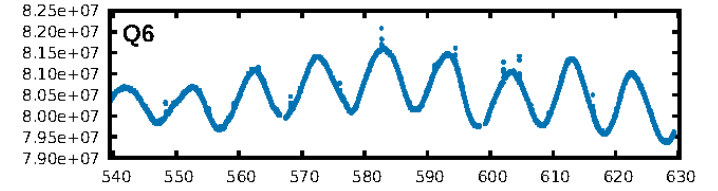
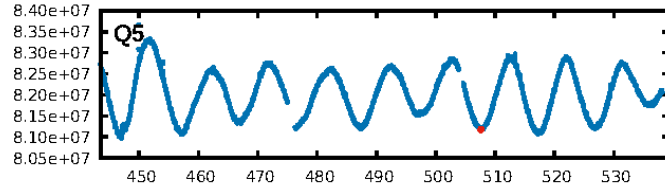
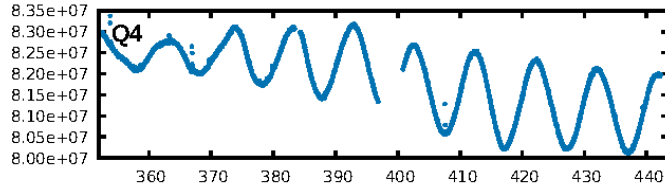
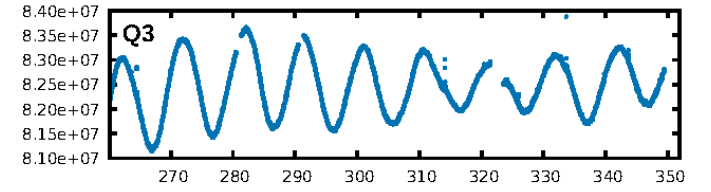
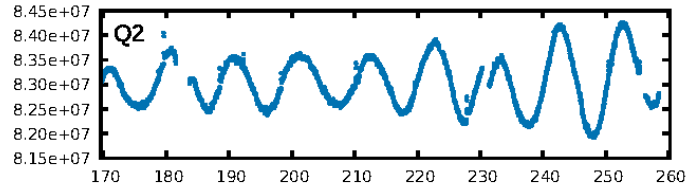
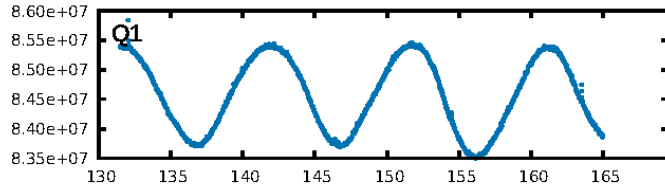
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [108.44σ]
LongPeriod-sig: 100.0% [304.31σ]
ModelChiSquare2-sig: 7.0%
ModelChiSquareGof-sig: 95.0%
Bootstrap-pfa: 1.17e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 5.976
Centroid-sig: 91.5%
Centroid-so: 0.196 arcsec [0.27σ]
OotOffset-rm: 0.486 arcsec [0.59σ]
KicOffset-rm: 0.439 arcsec [0.56σ]
OotOffset-st: 0/0/1/1 [2]
KicOffset-st: 0/0/1/1 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

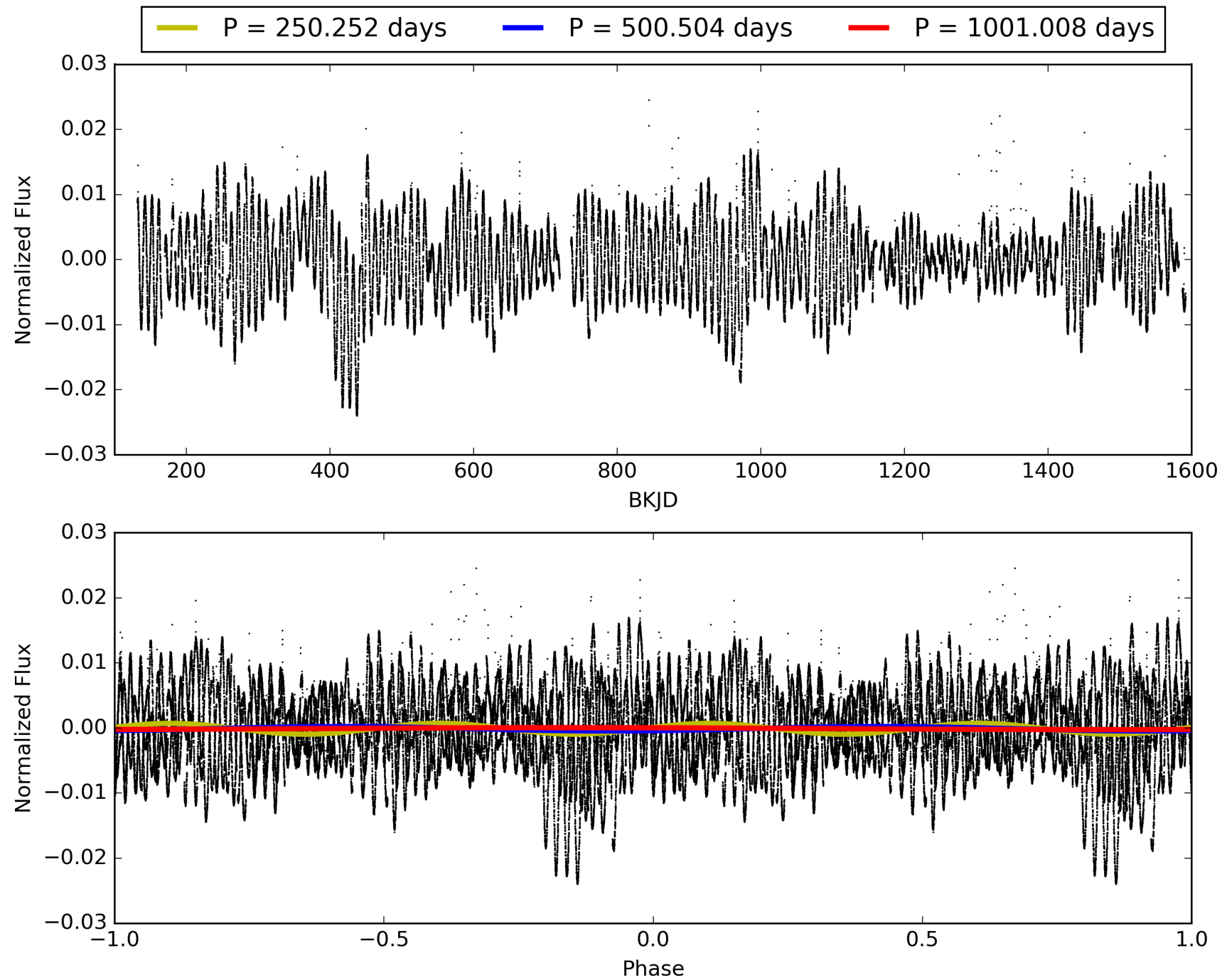
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 02:41:47 Z

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

TCE 009268249-06, PDC Light Curves

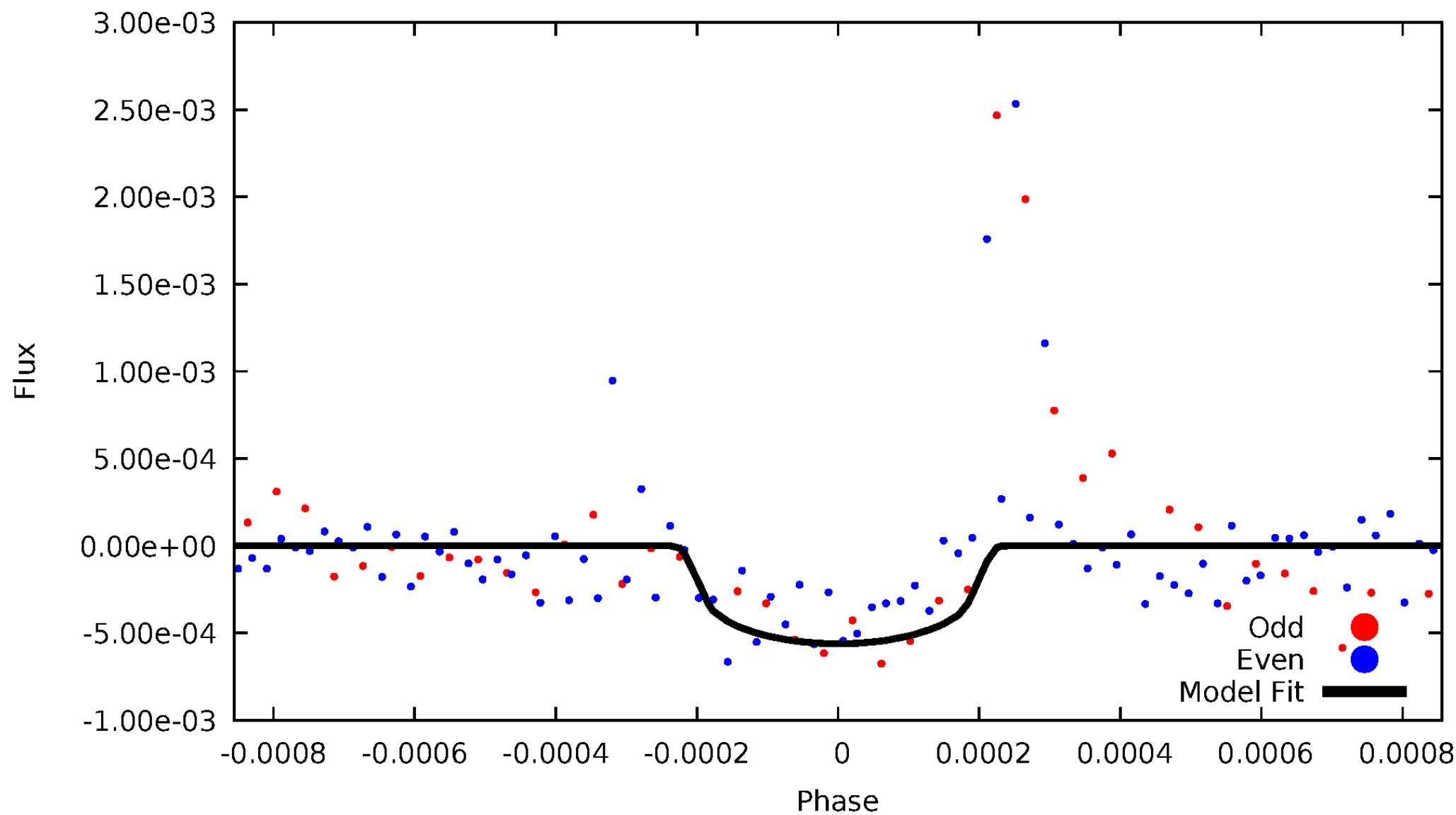


TCE 009268249-06



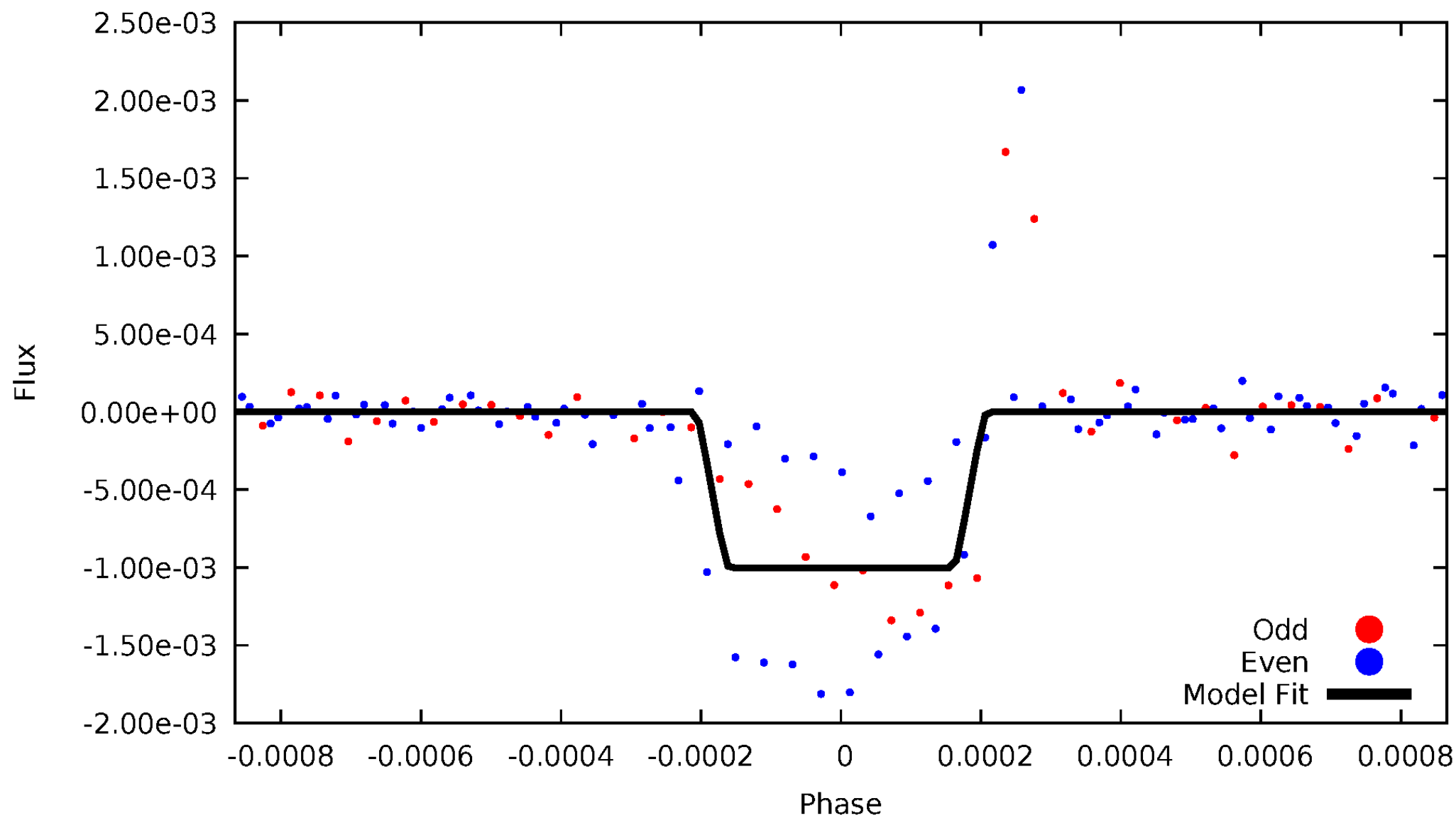
DV Odd/Even

TCE 009268249-06



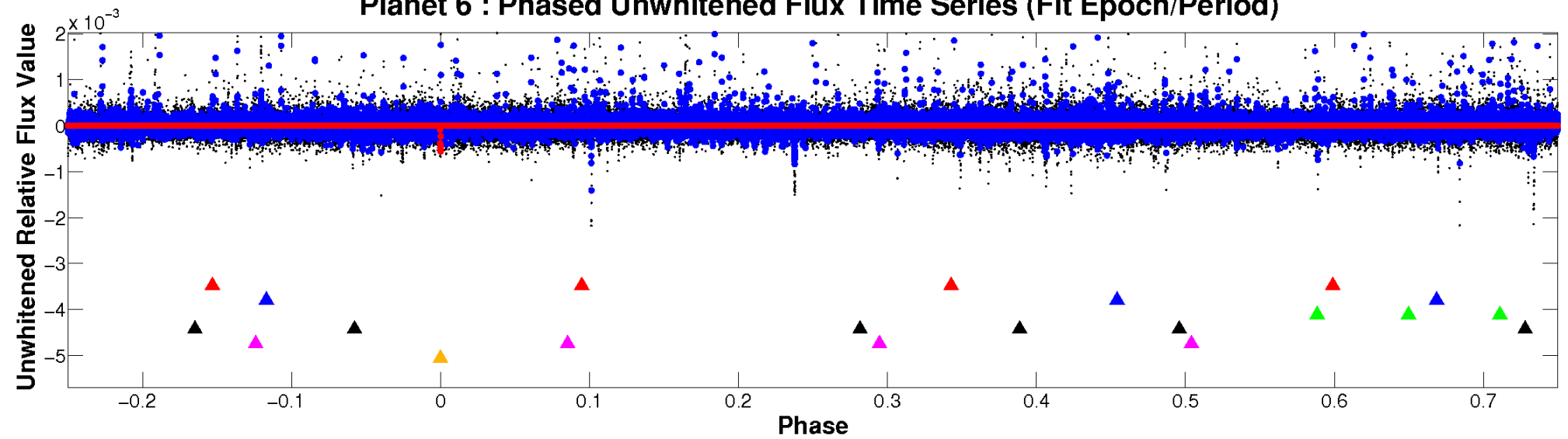
ALT Odd/Even

TCE 009268249-06

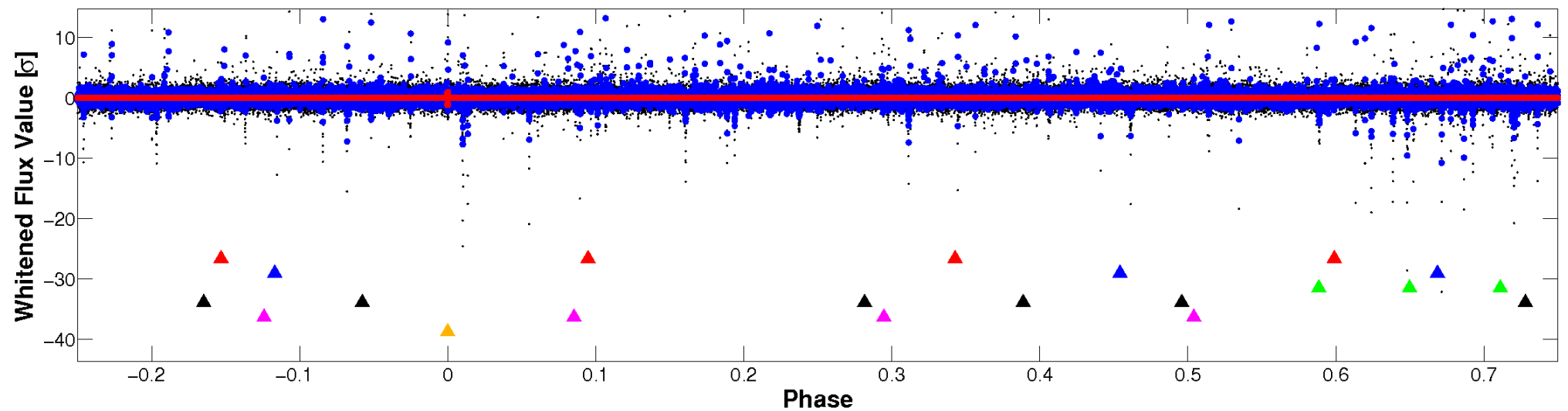


Non-Whitened Vs. Whitened Light Curve

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

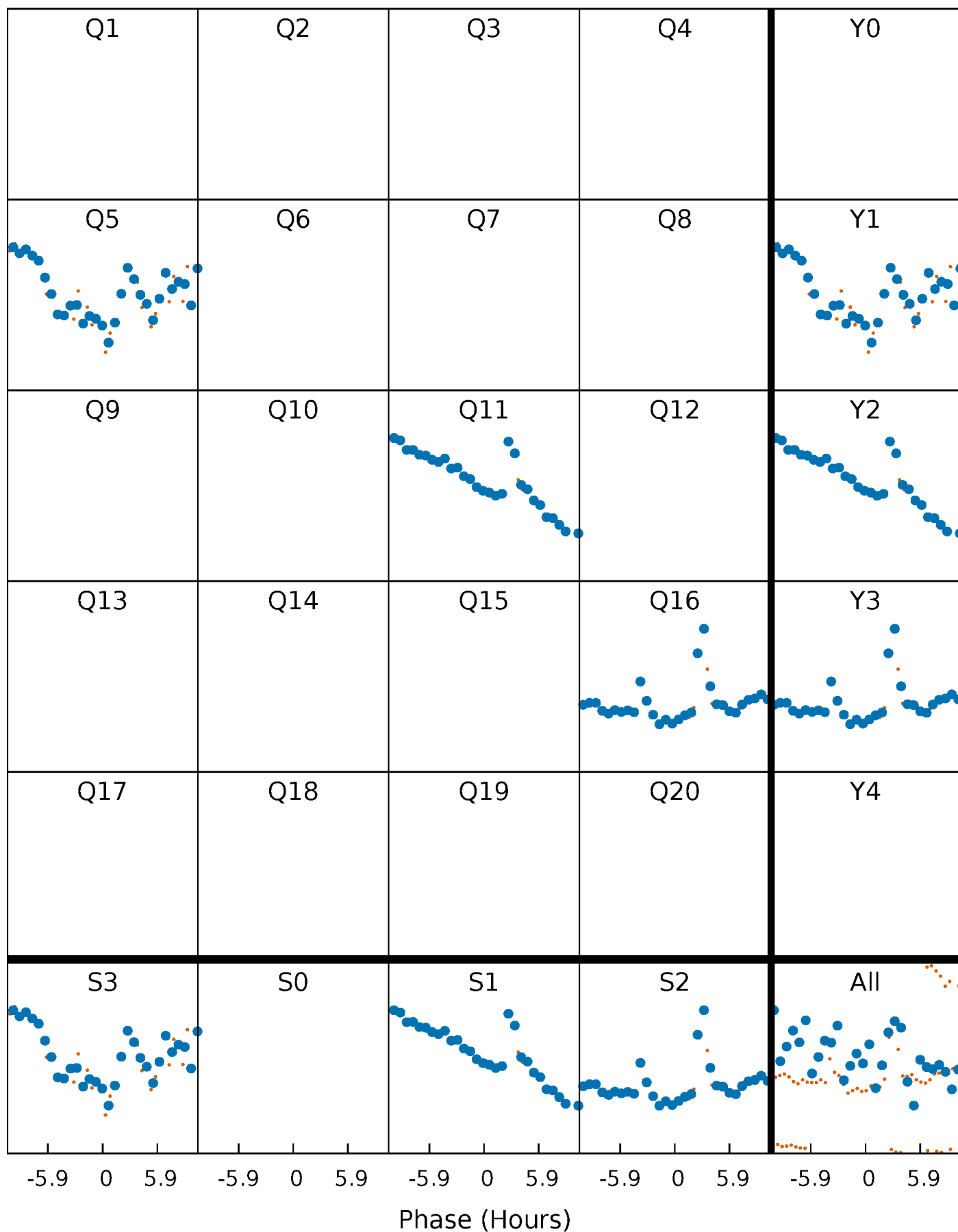


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



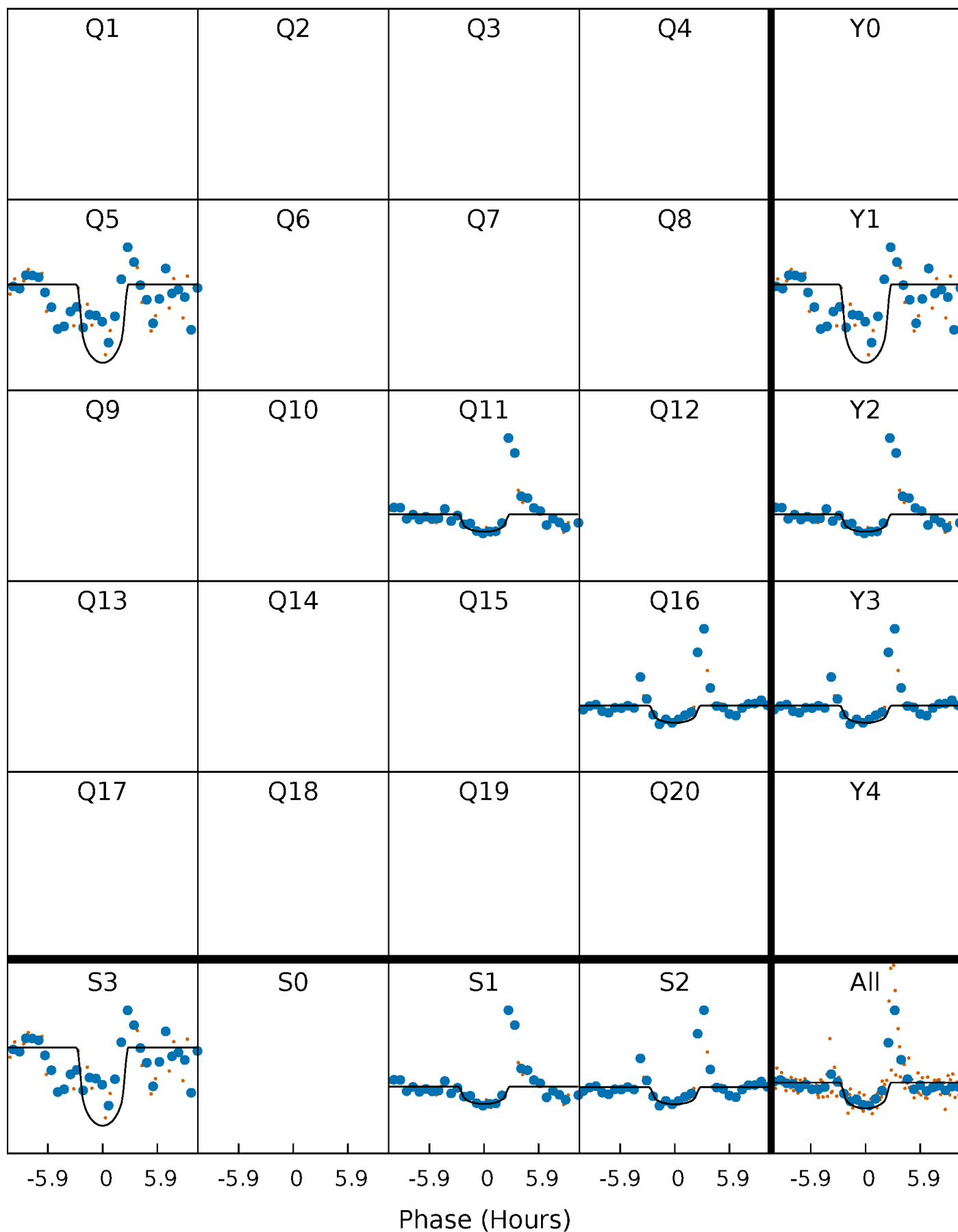
PDC Quarter-Phased Transit Curves

TCE 009268249-06 $P=500.503980$ Days $T_0=507.579570$ (BKJD)



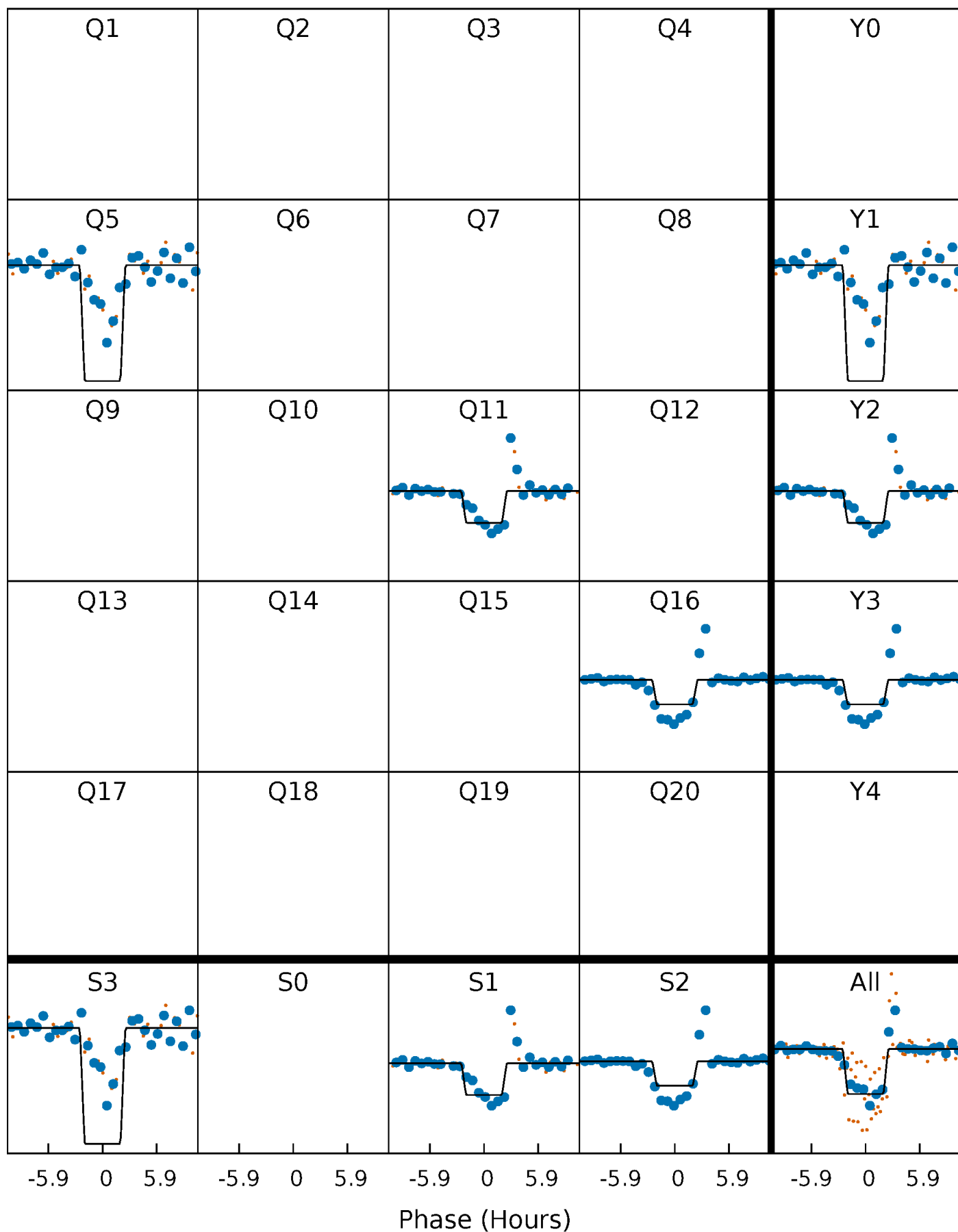
DV Quarter-Phased Transit Curves

TCE 009268249-06 $P=500.503980$ Days $T_0=507.579570$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

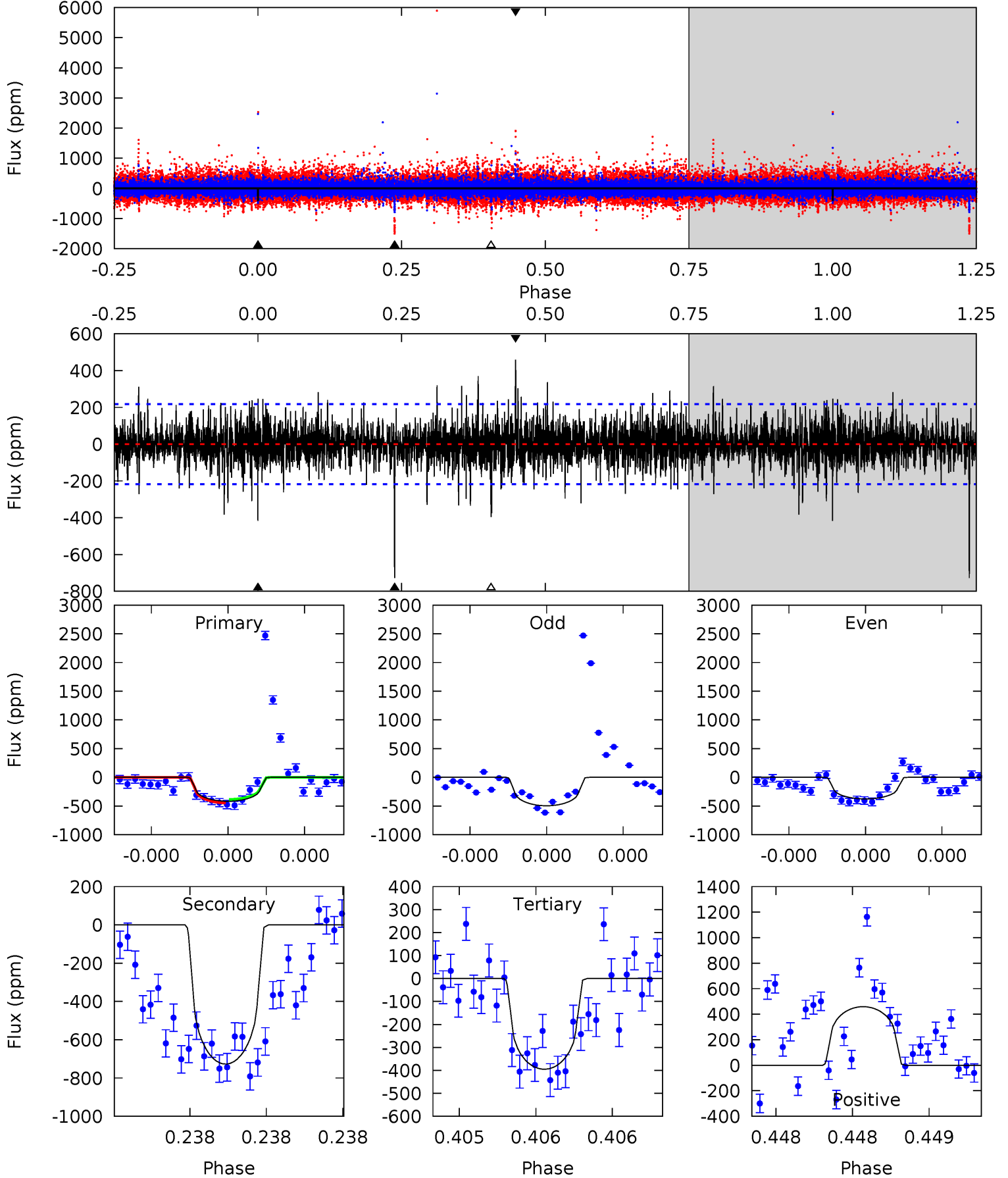
TCE 009268249-06 P=500.506430 Days $T_0=507.571847$ (BKJD)



DV Model-Shift Uniqueness Test

009268249-06, P = 500.503980 Days, E = 7.075590 Days

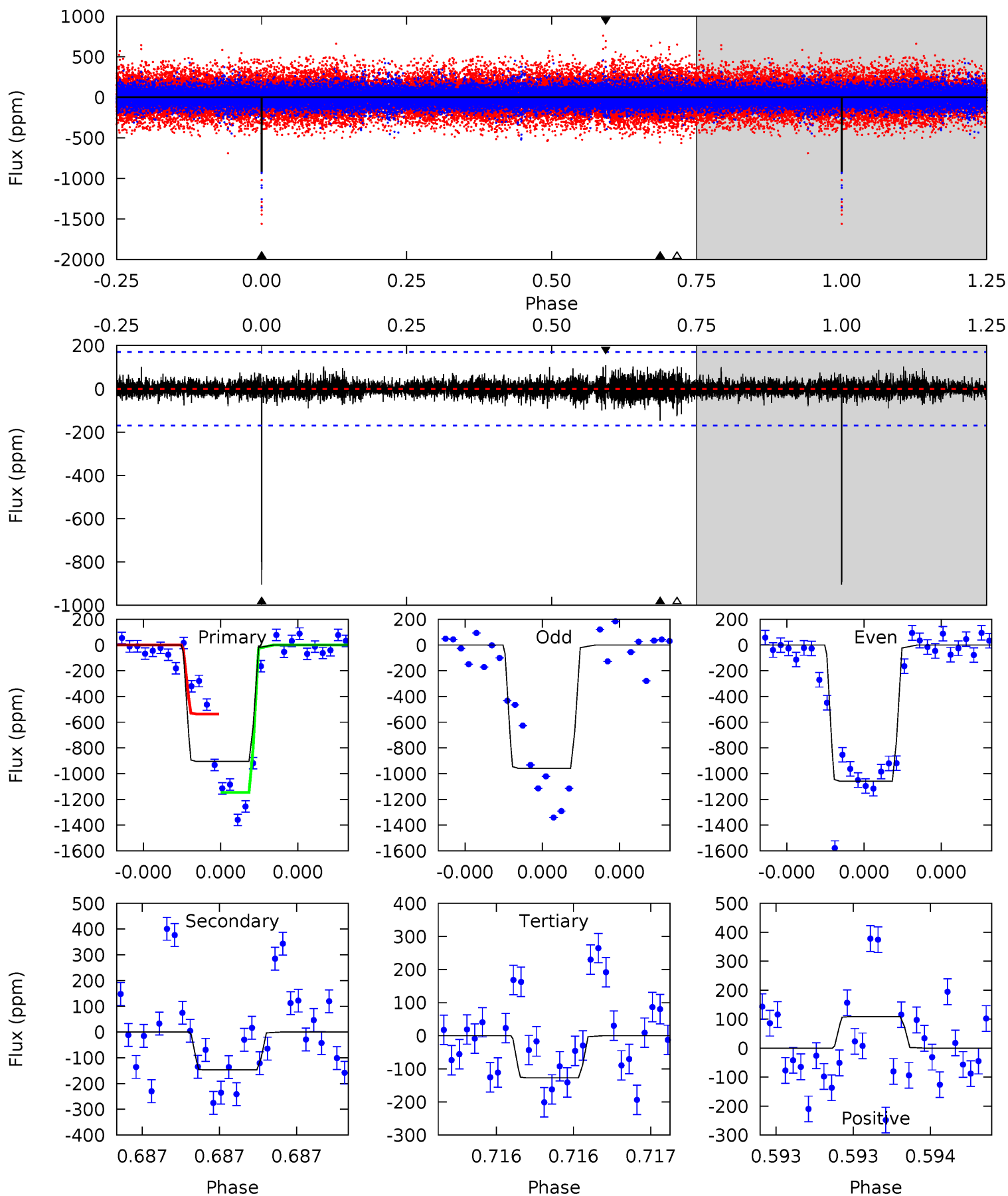
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	18.7	10.2	11.8	5.59	3.51	1.97	0.58	-1.07	8.54	6.89	1.16	0.91	0.39	0.78



Alt Model-Shift Uniqueness Test

009268249-06, P = 500.506430 Days, E = 7.065417 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.8	4.84	4.18	3.57	5.60	3.53	0.70	25.6	26.2	0.67	1.27	1.91	1.00	0.11	10.2



Stellar Parameters For KIC 009268249

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4864^{+146}_{-117}	$3.796^{+0.749}_{-0.321}$	$0.480^{+0.050}_{-0.250}$	$2.245^{+0.973}_{-1.460}$	$1.151^{+0.176}_{-0.327}$	$0.143^{+2.314}_{-0.082}$
	+3%/-2%	+20%/-8%	+10%/-52%	+43%/-65%	+15%/-28%	+1616%/-57%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 009268249-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-727 ± 39	$5.60^{+4.80}_{-3.52}$	395^{+53}_{-72}	5065^{+2789}_{-919}	$21173^{+131129}_{-14797}$
Alt.	-147 ± 30	$7.03^{+5.65}_{-3.54}$	396^{+51}_{-65}	3434^{+809}_{-435}	2503^{+7997}_{-1694}

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 $A_{obs} \gg 1.0$

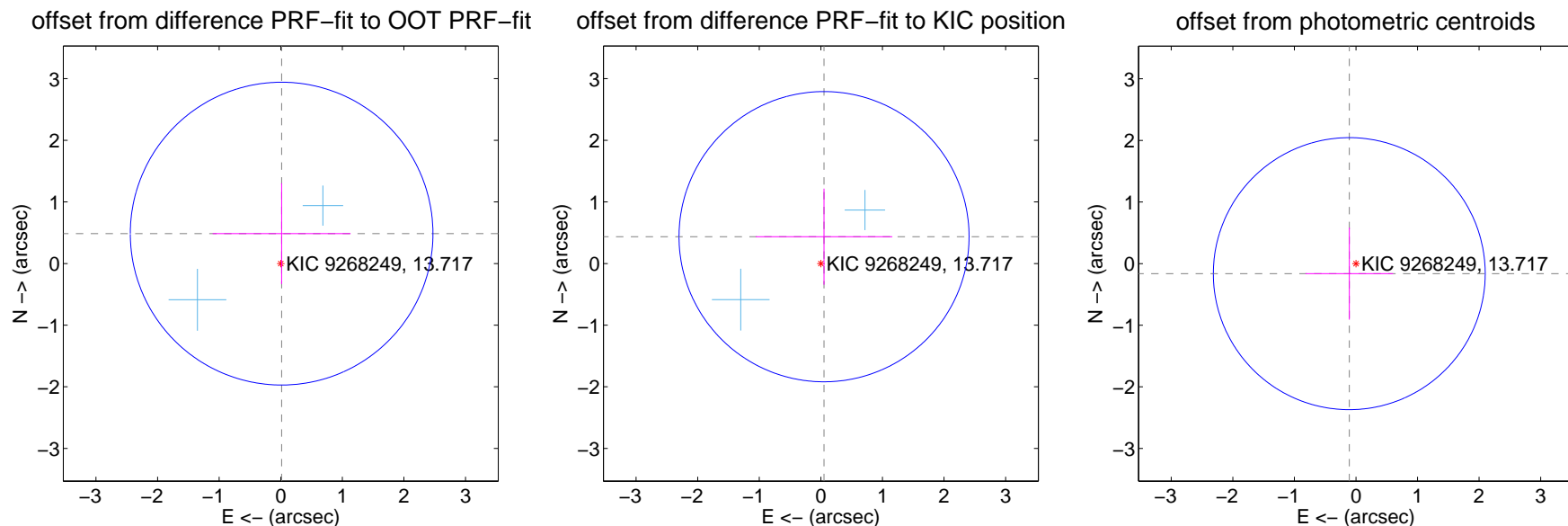
DV Centroid Data

Supplemental centroid analysis for 009268249-06. Kepler magnitude: 13.72. 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 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.486 ± 0.819	0.59	-0.014 ± 1.120	0.485 ± 0.819
PRF-fit source offset from KIC position	0.439 ± 0.785	0.56	-0.052 ± 1.109	0.436 ± 0.779
photometric centroid source offset	0.20 ± 0.74	0.27	0.11 ± 0.71	-0.16 ± 0.75

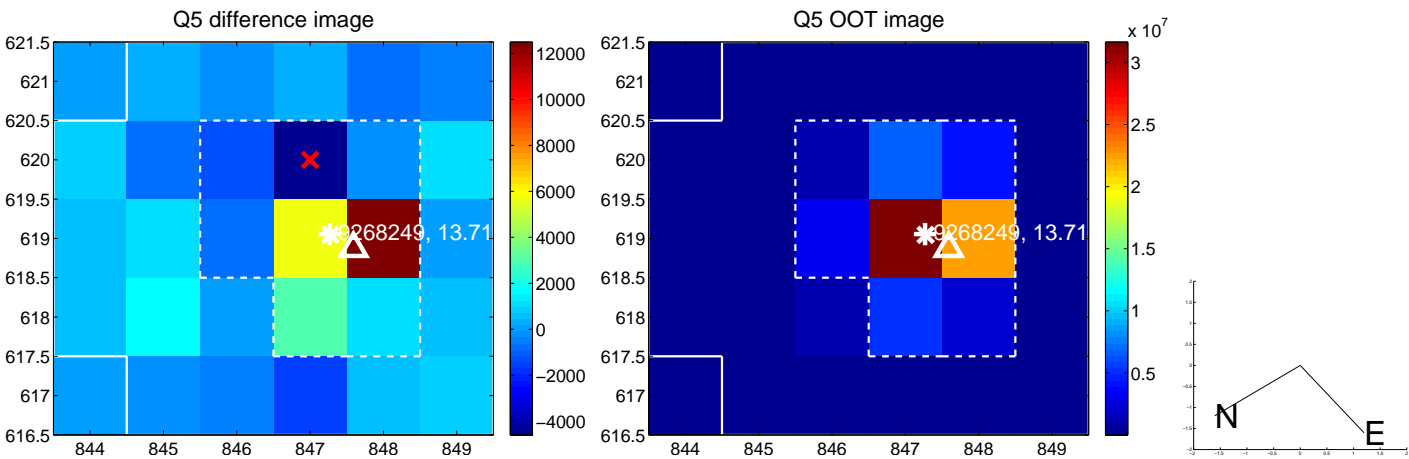


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



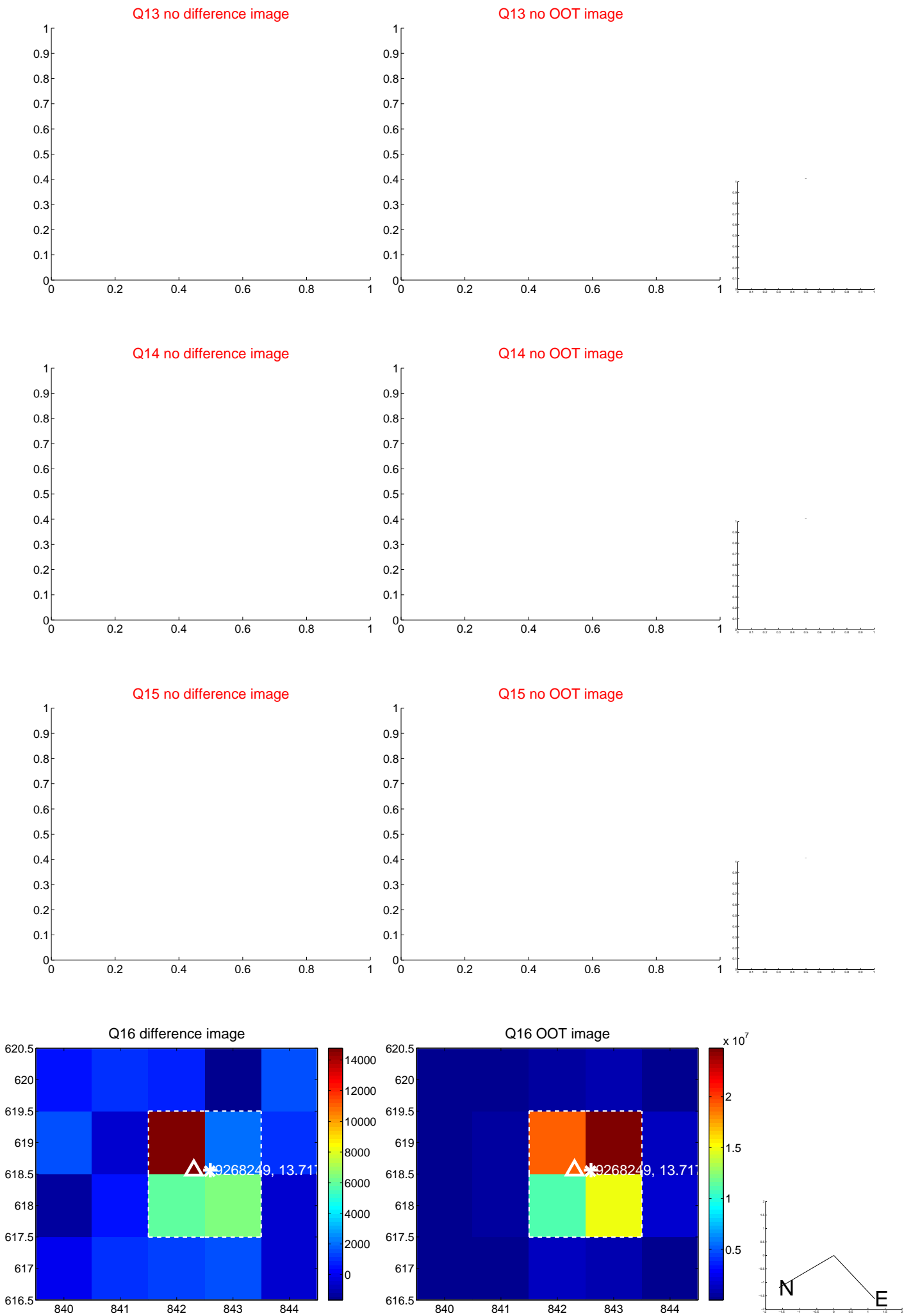
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



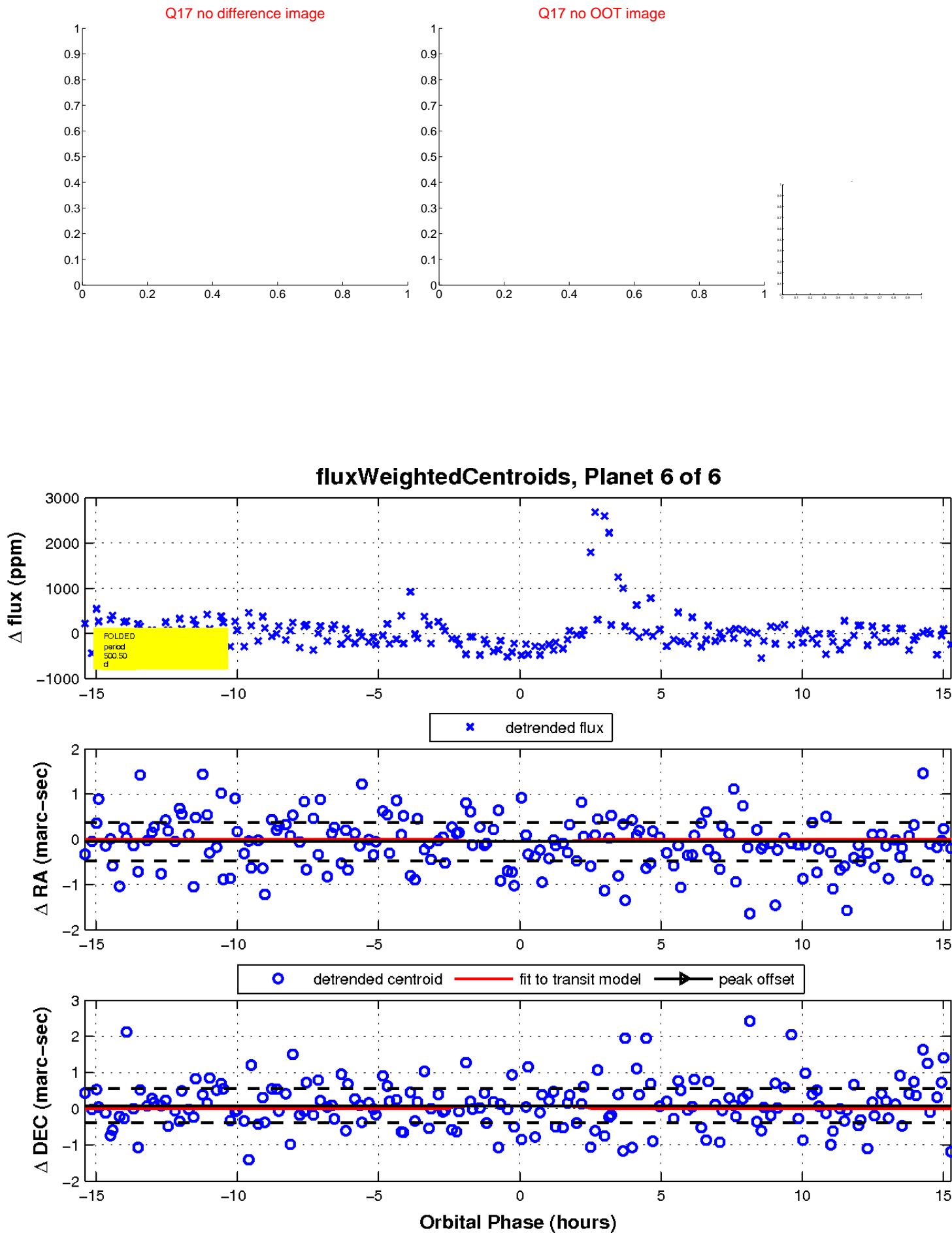
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: 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

