

KIC 005722668

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})
005722668-01	OBS	No	629.450128	287.403219	566.4	6.056	12.2	6.2	0.65	4234	1.66	0.08
005722668-02	OBS	No	238.680151	367.799410	413.1	7.965	10.5	6.6	0.65	4234	1.57	0.29
005722668-03	OBS	No	515.324714	197.602612	584.7	9.848	10.2	5.8	0.65	4234	1.75	0.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005722668-01	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
005722668-02	OBS	FP	0.00	1	0	0	0	ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
005722668-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

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

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

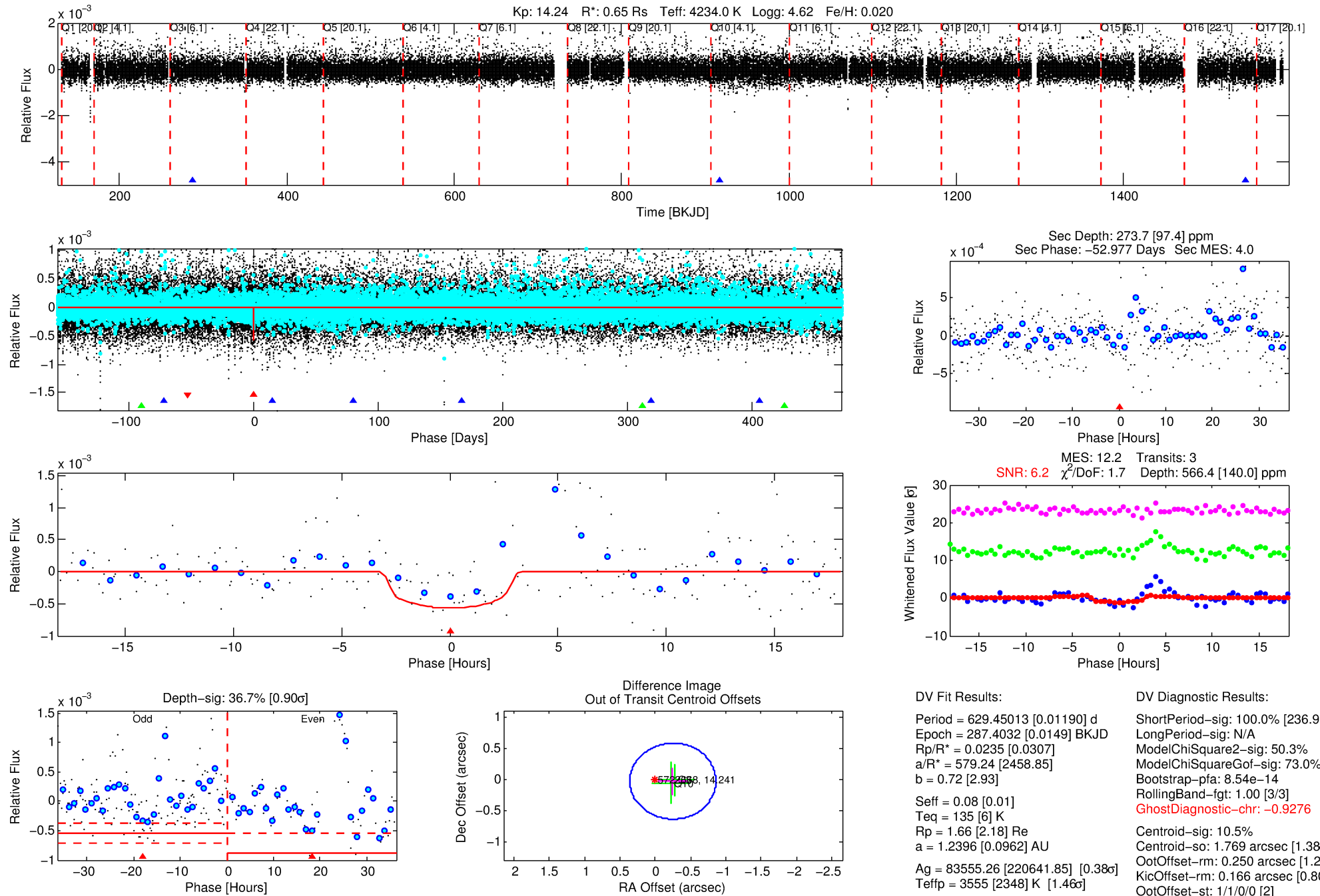
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005722668-01

No Significant Match Found

DV One-Page Summary

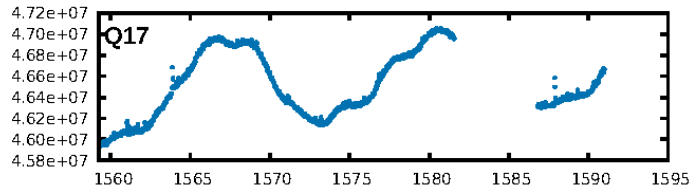
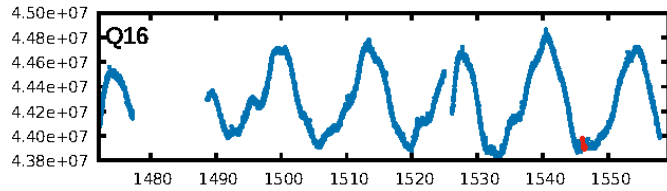
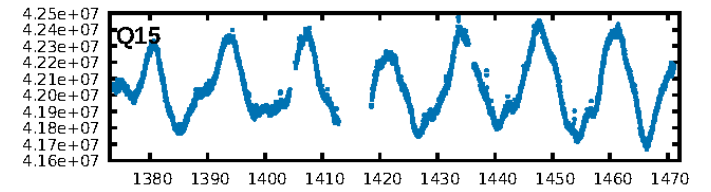
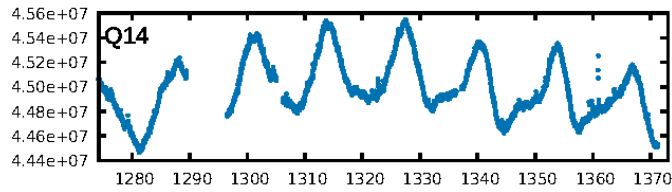
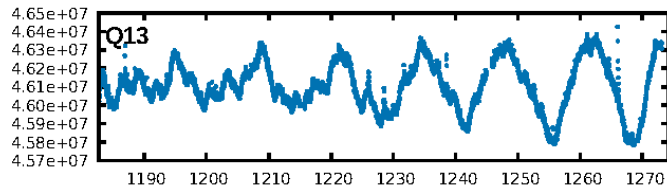
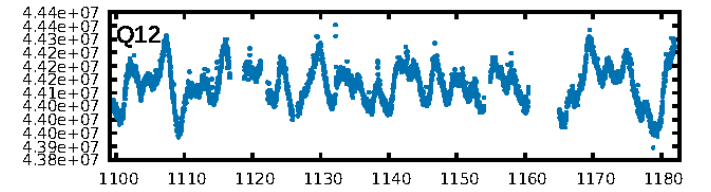
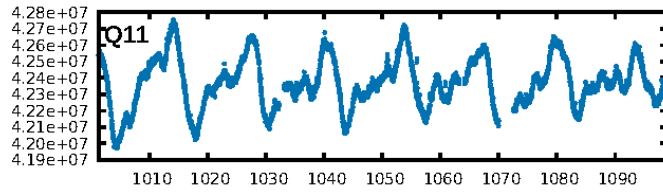
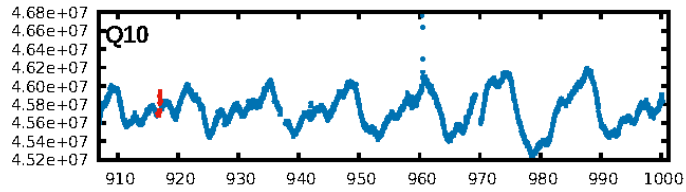
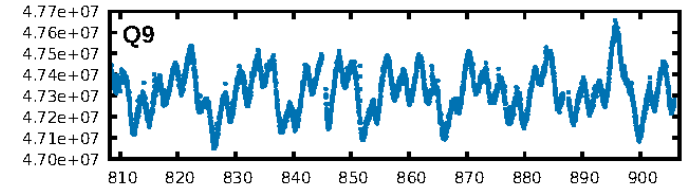
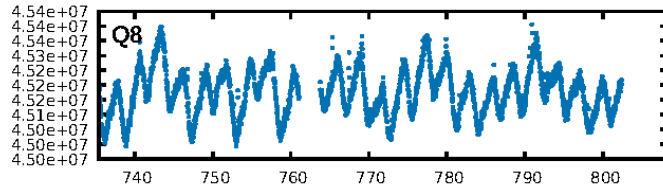
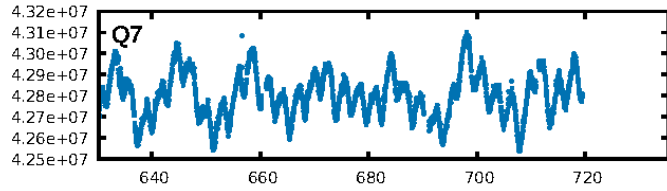
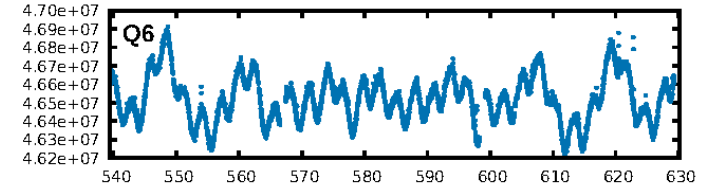
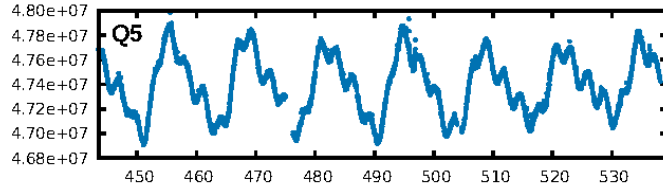
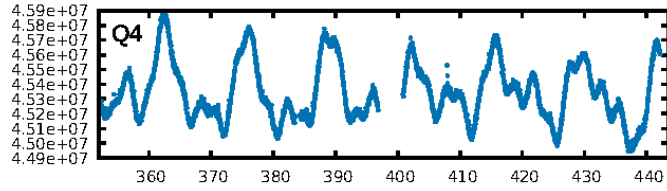
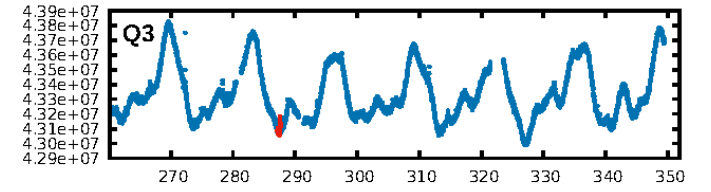
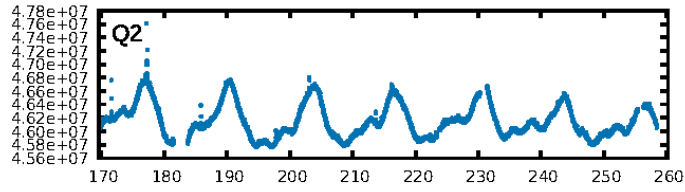
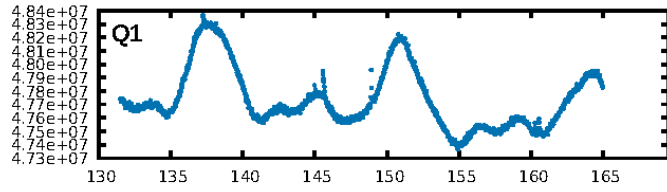
KIC: 5722668 Candidate: 1 of 3 Period: 629.450 d



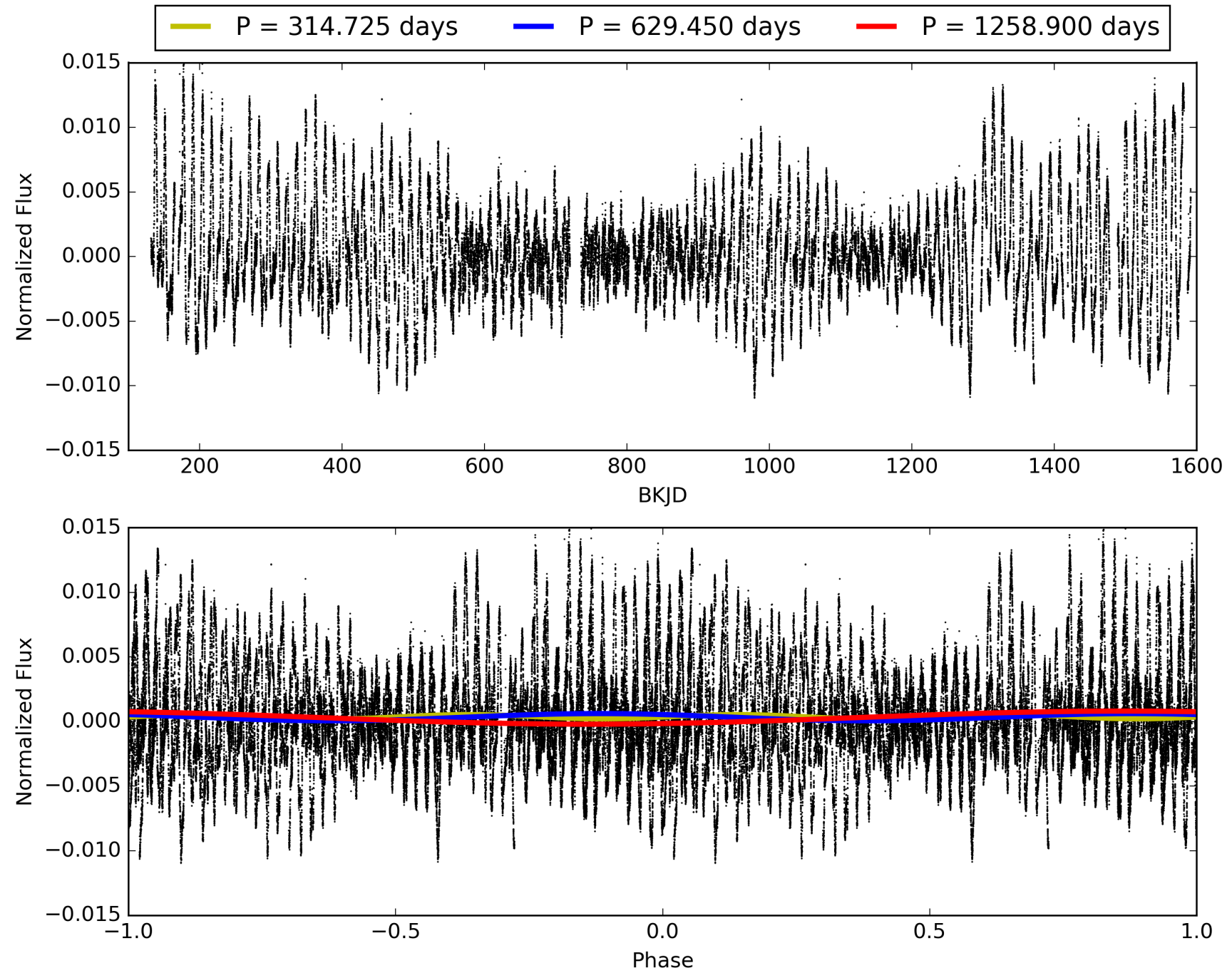
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005722668-01, PDC Light Curves

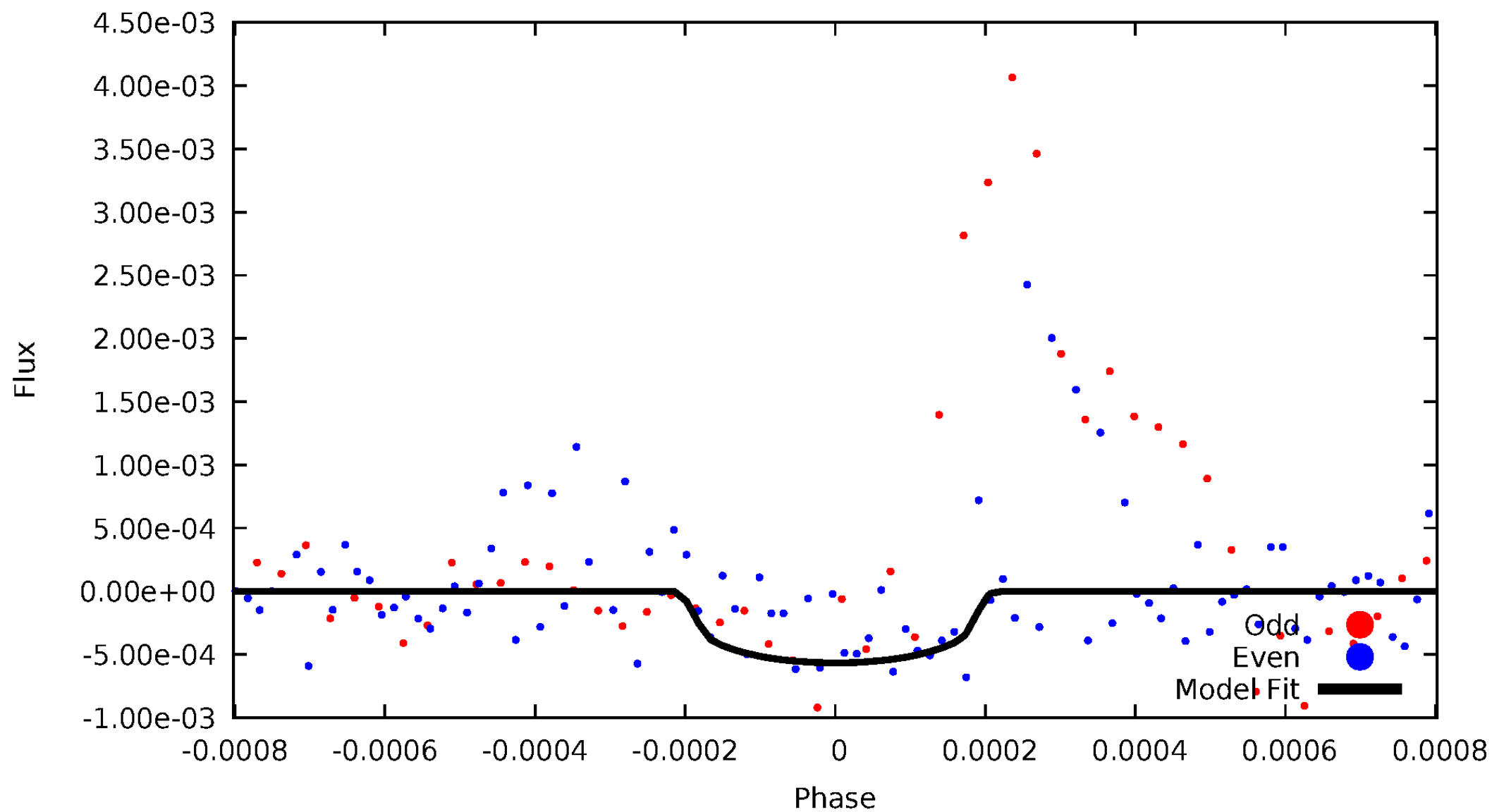


TCE 005722668-01



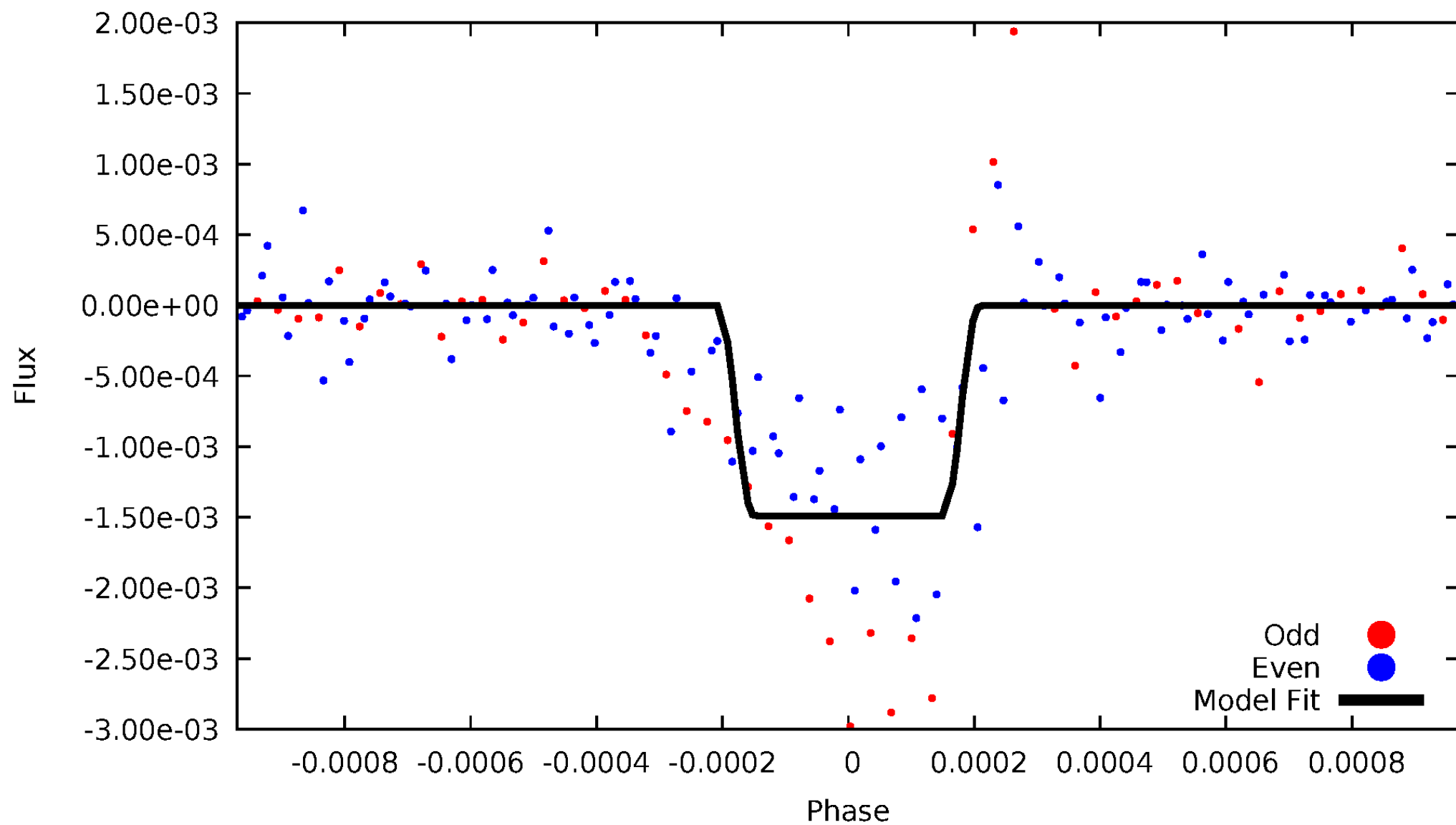
DV Odd/Even

TCE 005722668-01



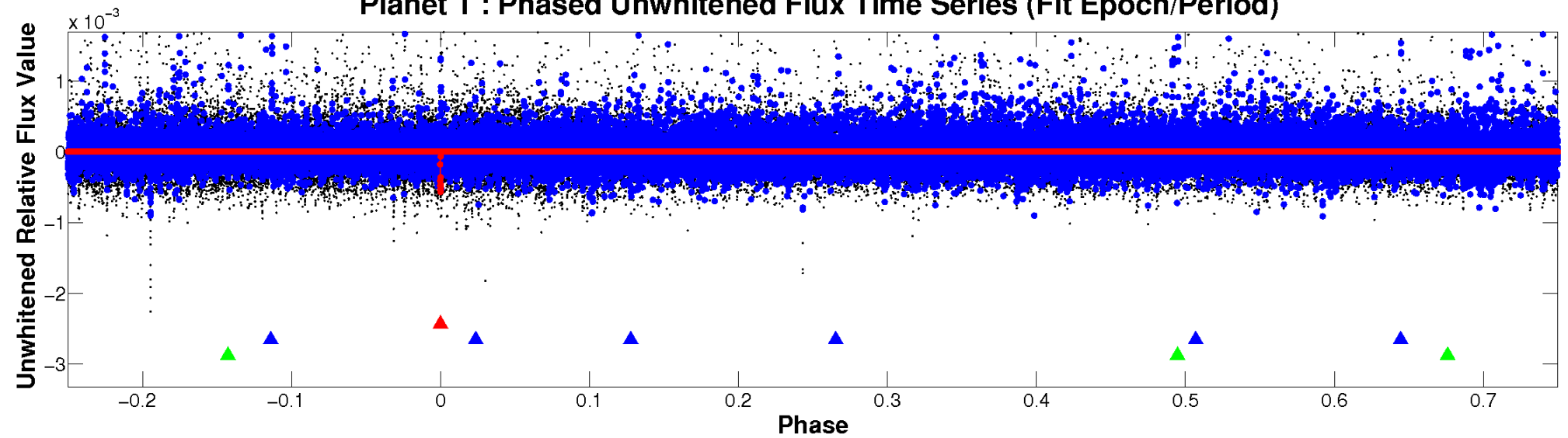
ALT Odd/Even

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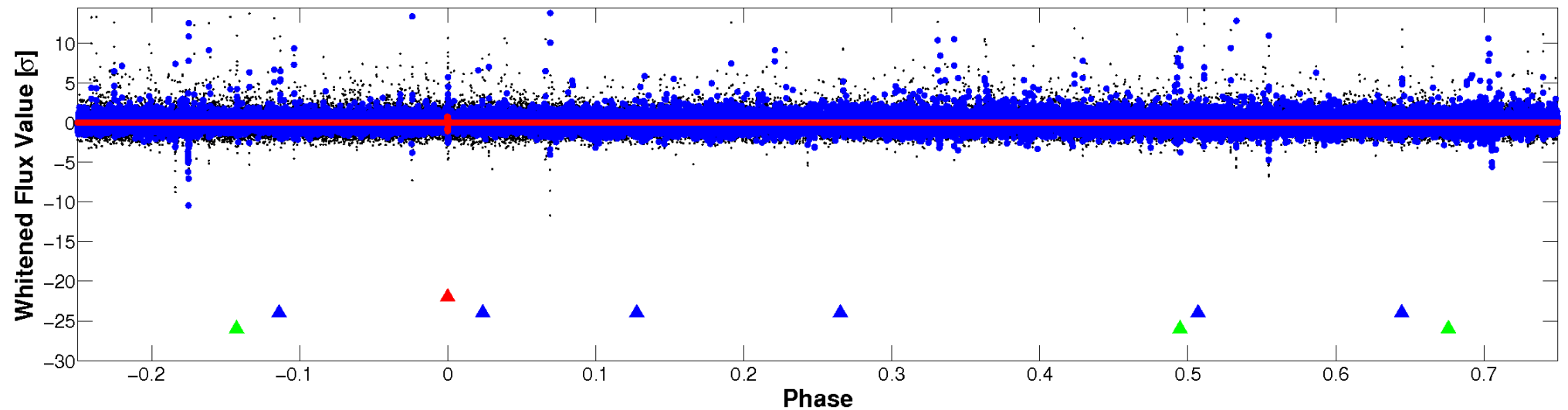


Non-Whitened Vs. Whitened Light Curve

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

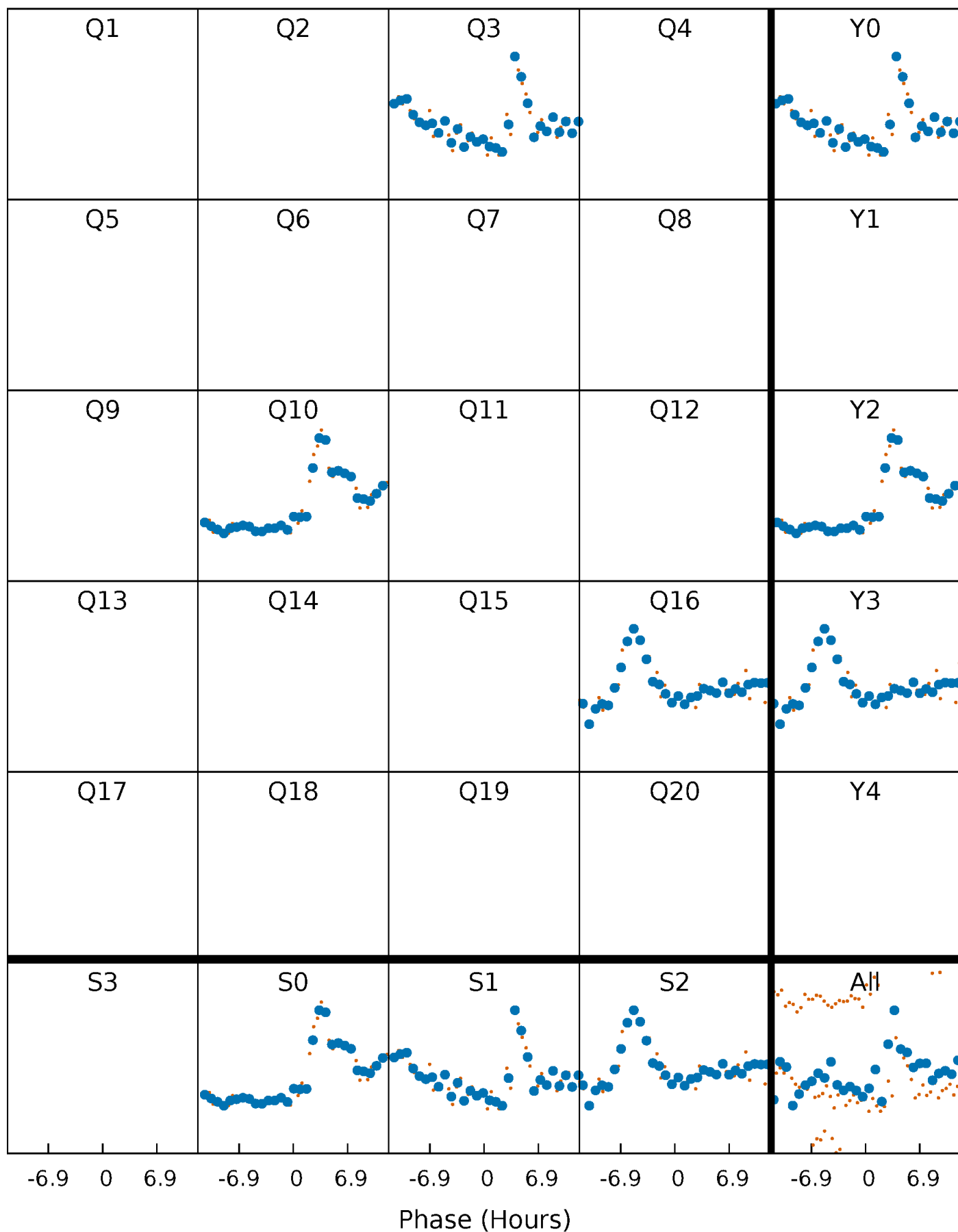


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



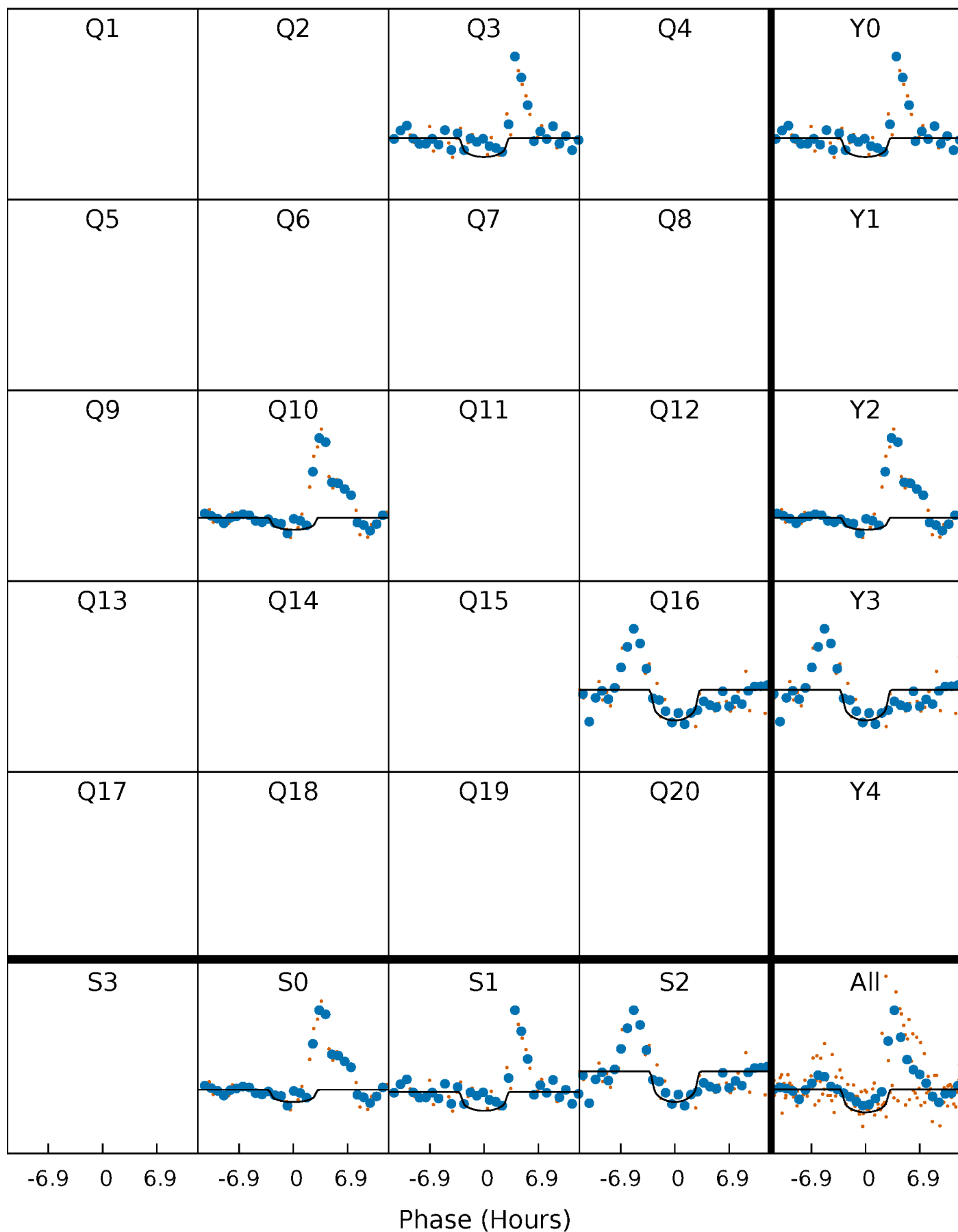
PDC Quarter-Phased Transit Curves

TCE 005722668-01 P=629.450128 Days $T_0=287.403219$ (BKJD)



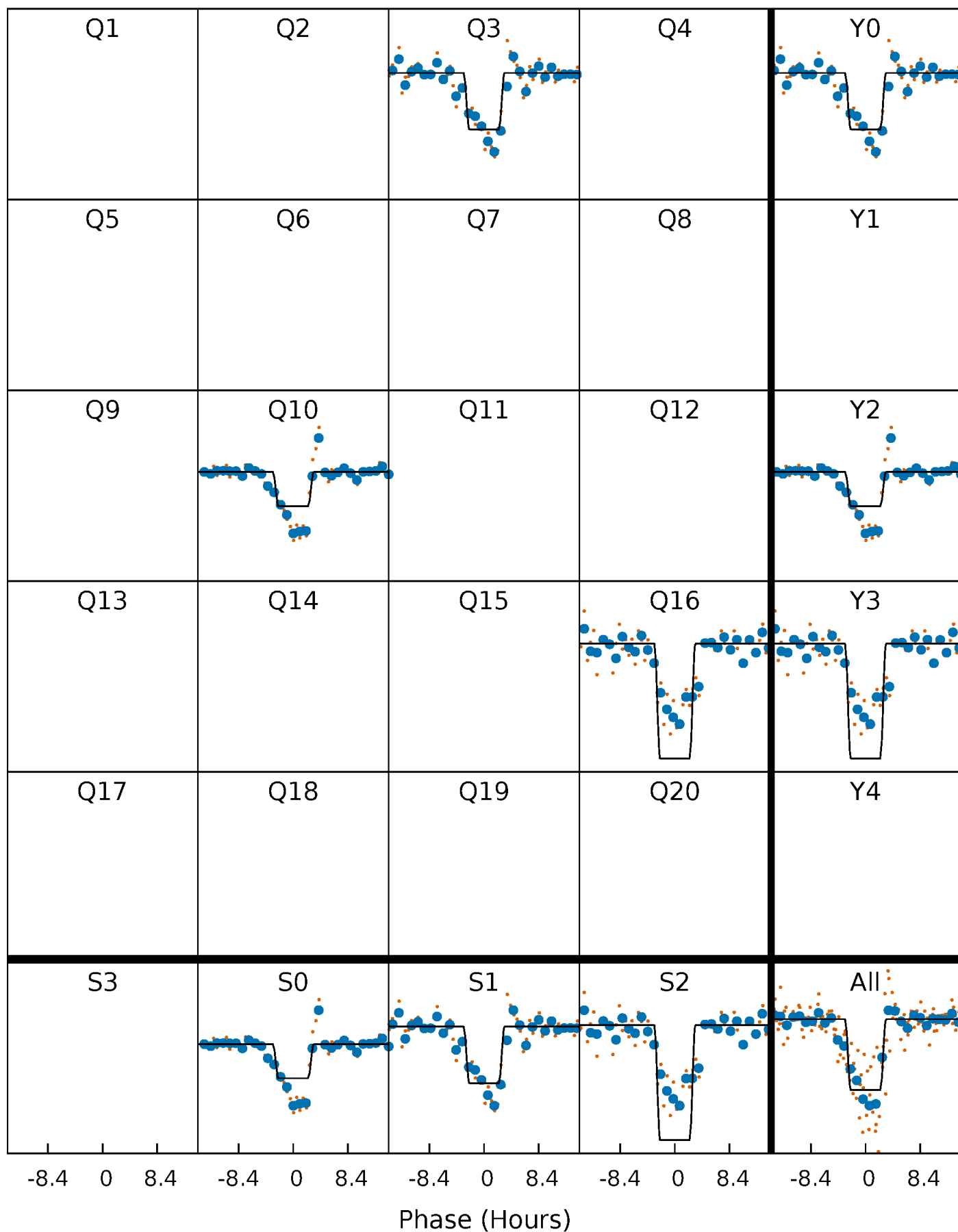
DV Quarter-Phased Transit Curves

TCE 005722668-01 P=629.450128 Days $T_0=287.403219$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

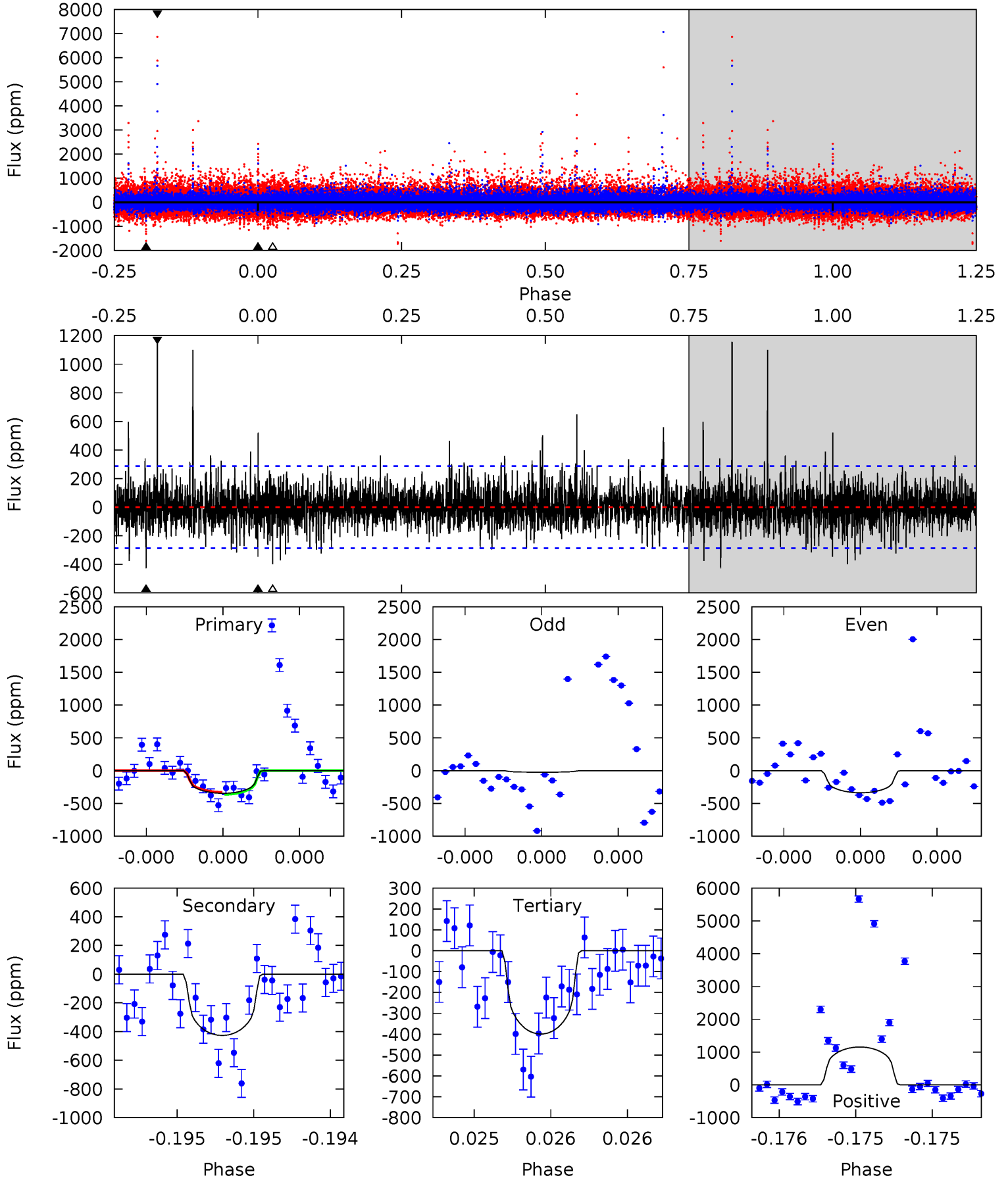
TCE 005722668-01 P=629.421760 Days $T_0=287.414721$ (BKJD)



DV Model-Shift Uniqueness Test

005722668-01, P = 629.450128 Days, E = 287.403219 Days

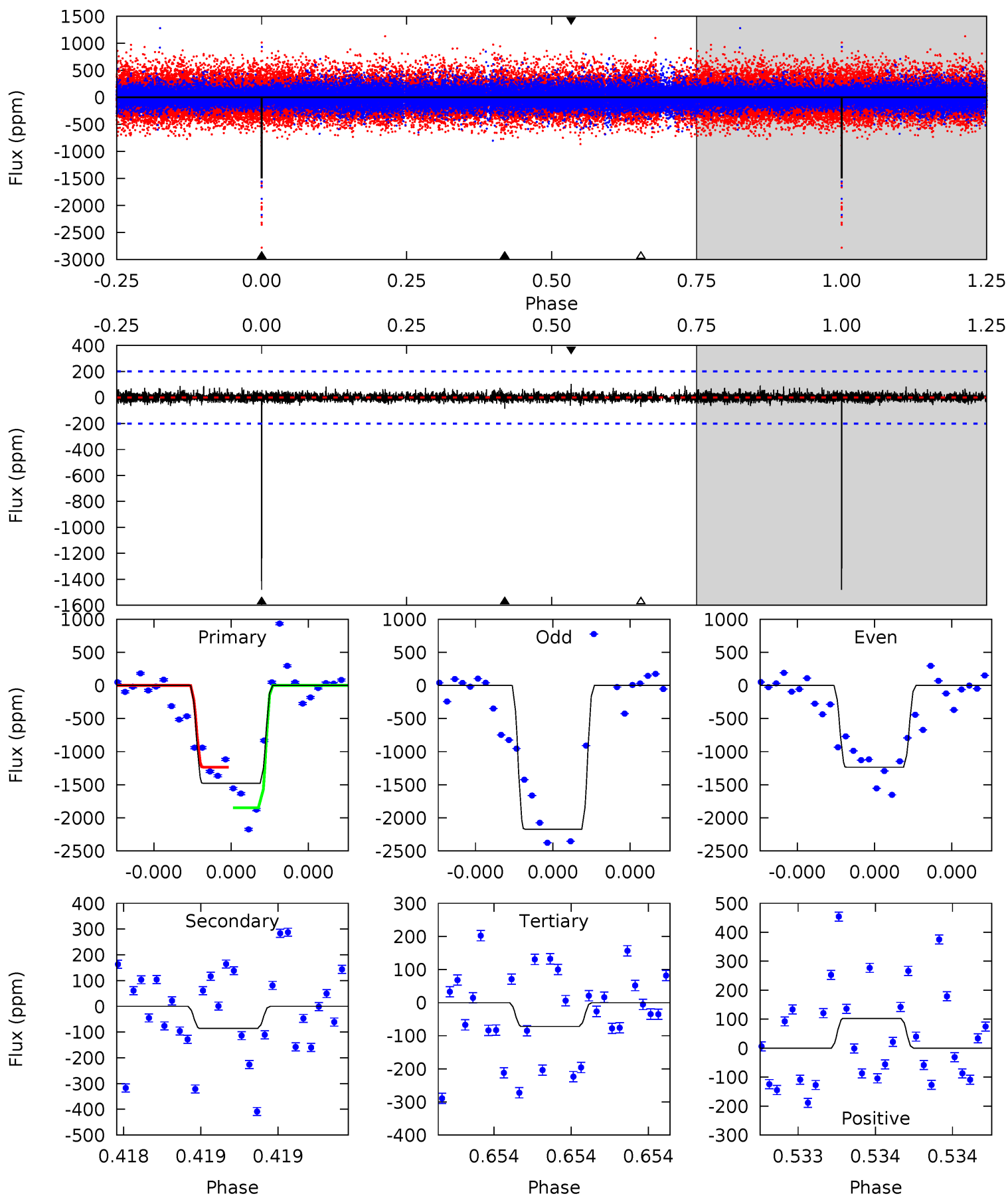
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.76	8.34	7.80	22.6	5.60	3.53	2.00	-1.04	-15.8	0.54	-14.2	2.85	1.15	0.73	0.31



Alt Model-Shift Uniqueness Test

005722668-01, P = 629.421760 Days, E = 287.414721 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.3	2.40	2.01	2.87	5.61	3.54	0.48	39.3	38.4	0.39	-0.47	12.9	0.96	0.06	8.44



Stellar Parameters For KIC 005722668

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4234^{+115}_{-141}	$4.619^{+0.056}_{-0.016}$	$0.020^{+0.250}_{-0.300}$	$0.650^{+0.031}_{-0.063}$	$0.640^{+0.056}_{-0.056}$	$3.283^{+0.827}_{-0.282}$
	+3%/-3%	+1%/-0%	+1250%/-1500%	+5%/-10%	+9%/-9%	+25%/-9%
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 005722668-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-427 ± 51	$2.33^{+1.90}_{-1.58}$	187^{+6}_{-7}	3581^{+1889}_{-607}	$68616^{+573697}_{-48730}$
Alt.	-86 ± 36	$2.94^{+2.11}_{-1.72}$	187^{+6}_{-7}	2615^{+759}_{-344}	7881^{+41103}_{-5593}

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 $A_{obs} \gg 1.0$

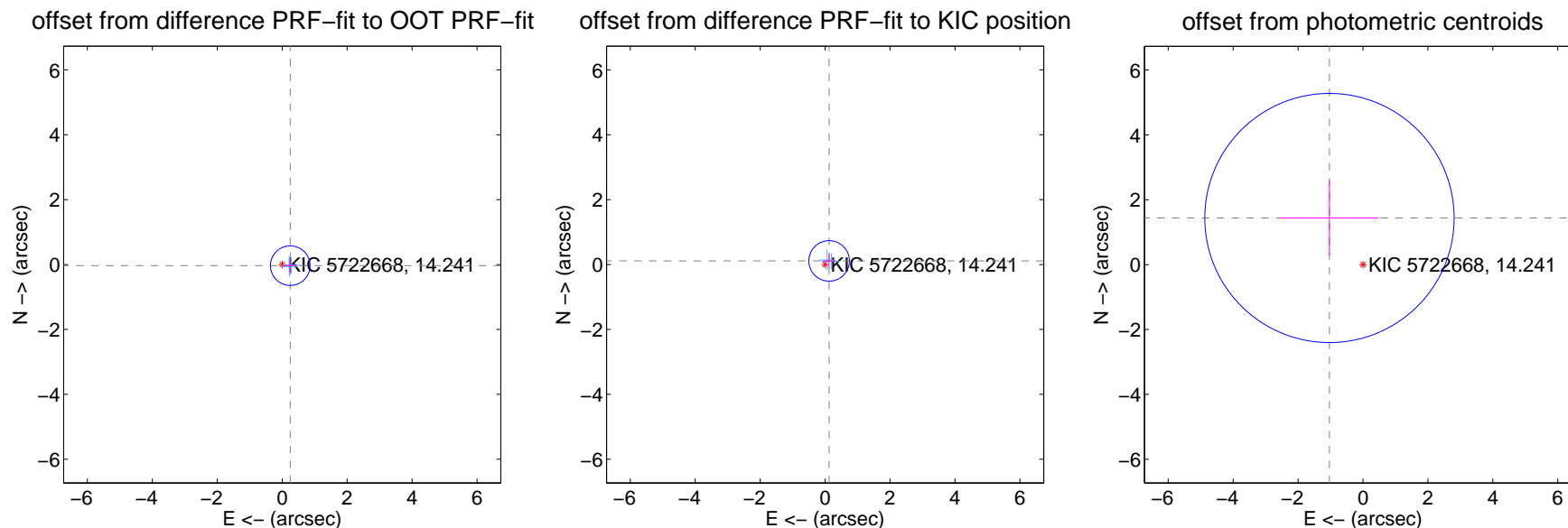
DV Centroid Data

Supplemental centroid analysis for 005722668-01. Kepler magnitude: 14.24. Transit SNR 6.23

There are 2 quarters with good PRF difference image offsets

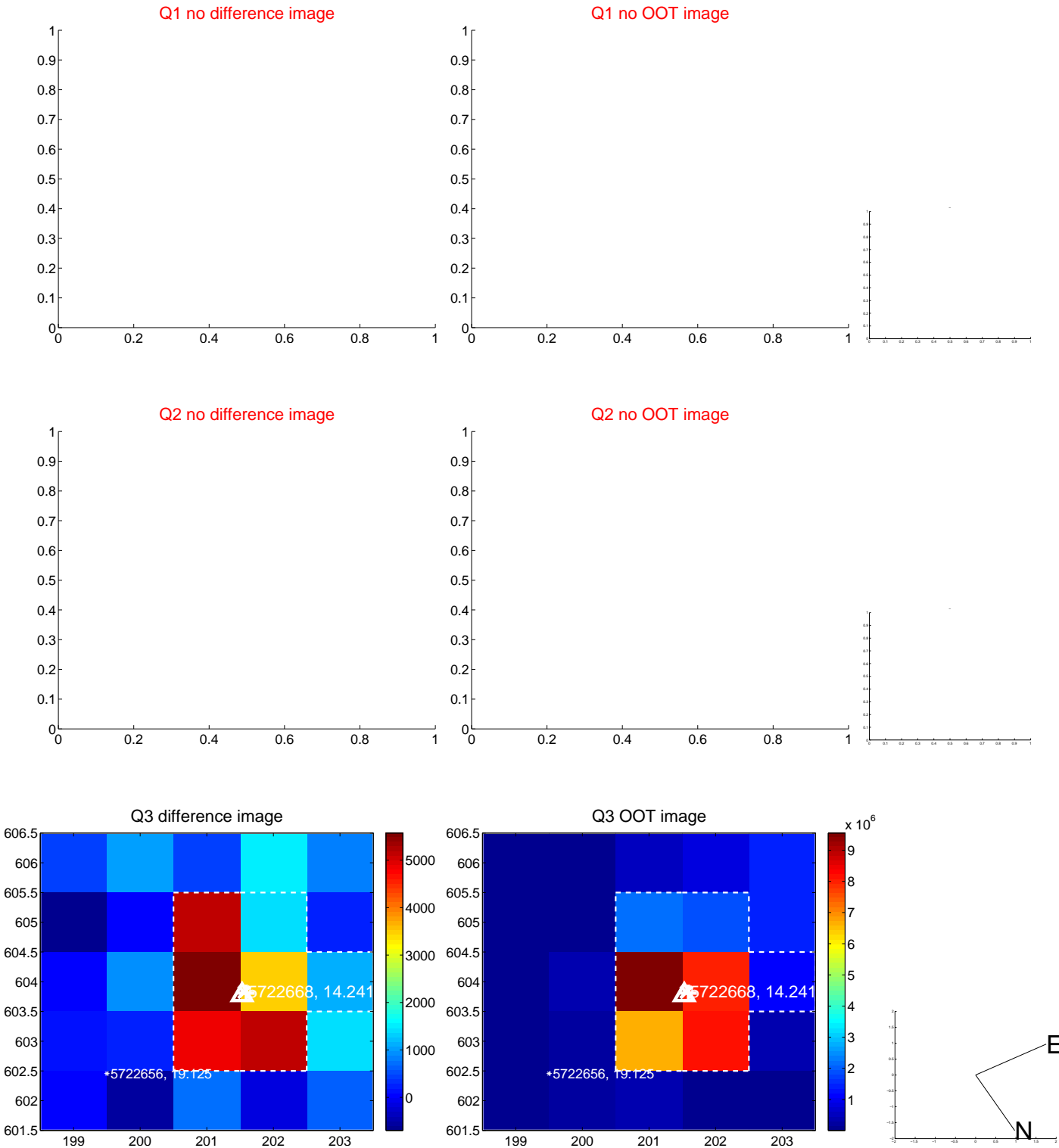
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.250 ± 0.203	1.23	-0.248 ± 0.203	-0.034 ± 0.214
PRF-fit source offset from KIC position	0.166 ± 0.208	0.80	-0.123 ± 0.203	0.112 ± 0.214
photometric centroid source offset	1.77 ± 1.28	1.38	1.03 ± 1.51	1.44 ± 1.15



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

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



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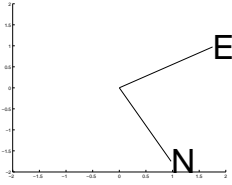
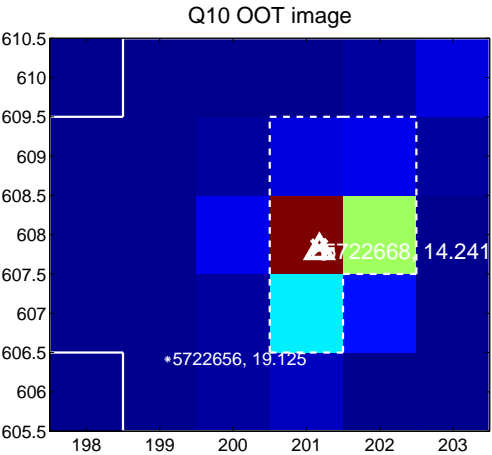
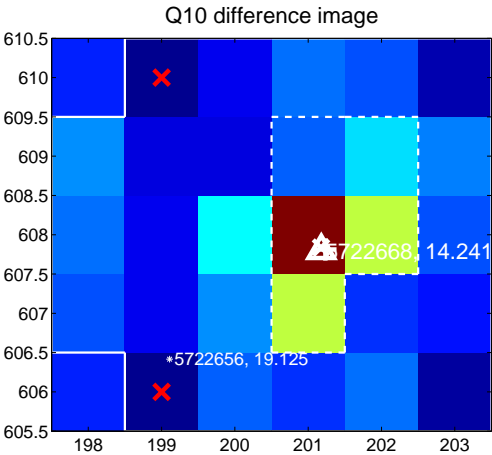


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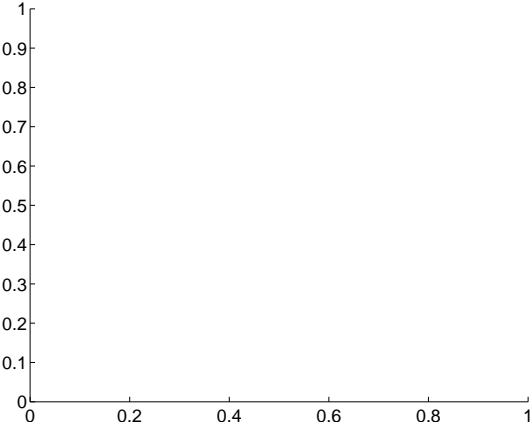
Q9 no difference image



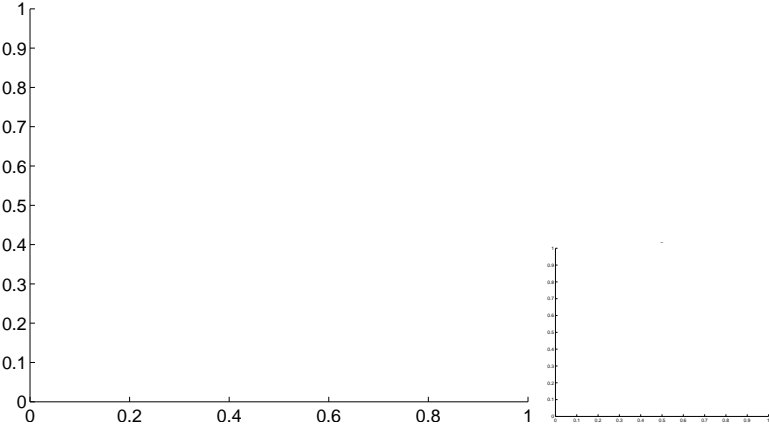
Q9 no OOT image



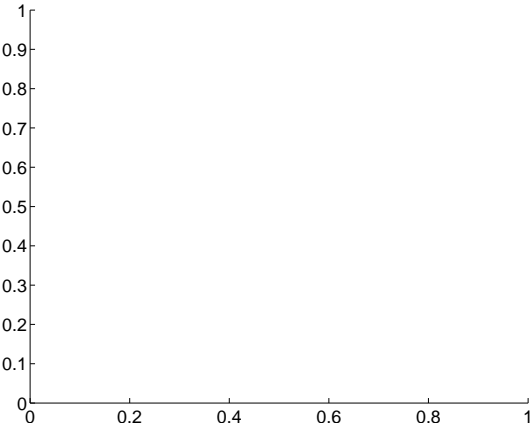
Q11 no difference image



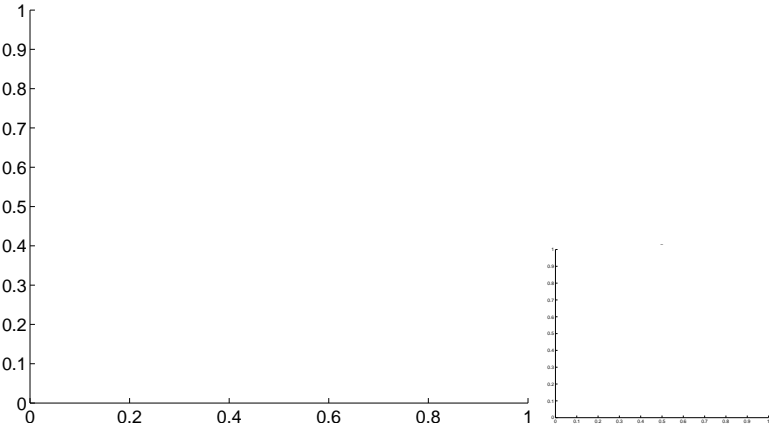
Q11 no OOT image



Q12 no difference image



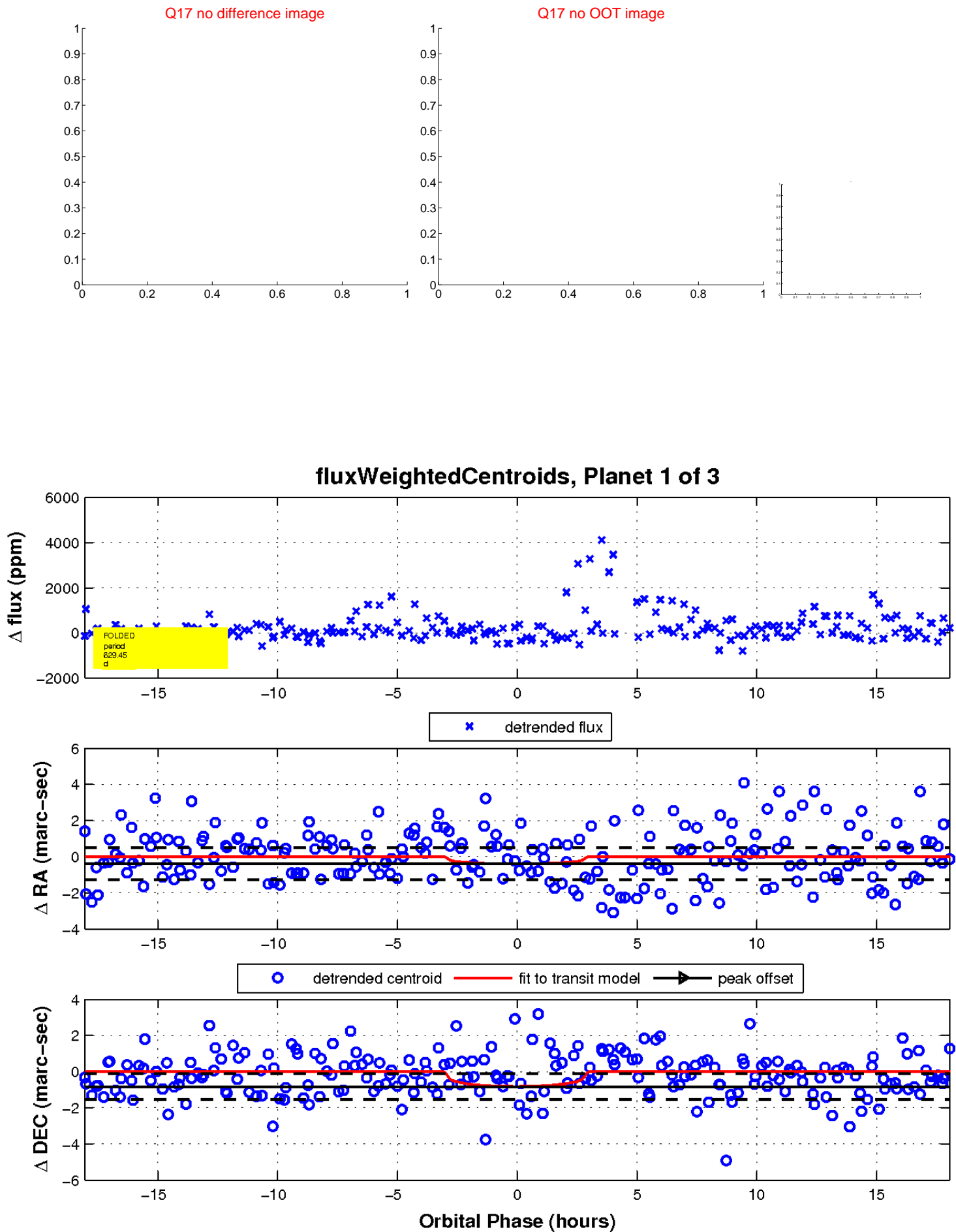
Q12 no OOT image



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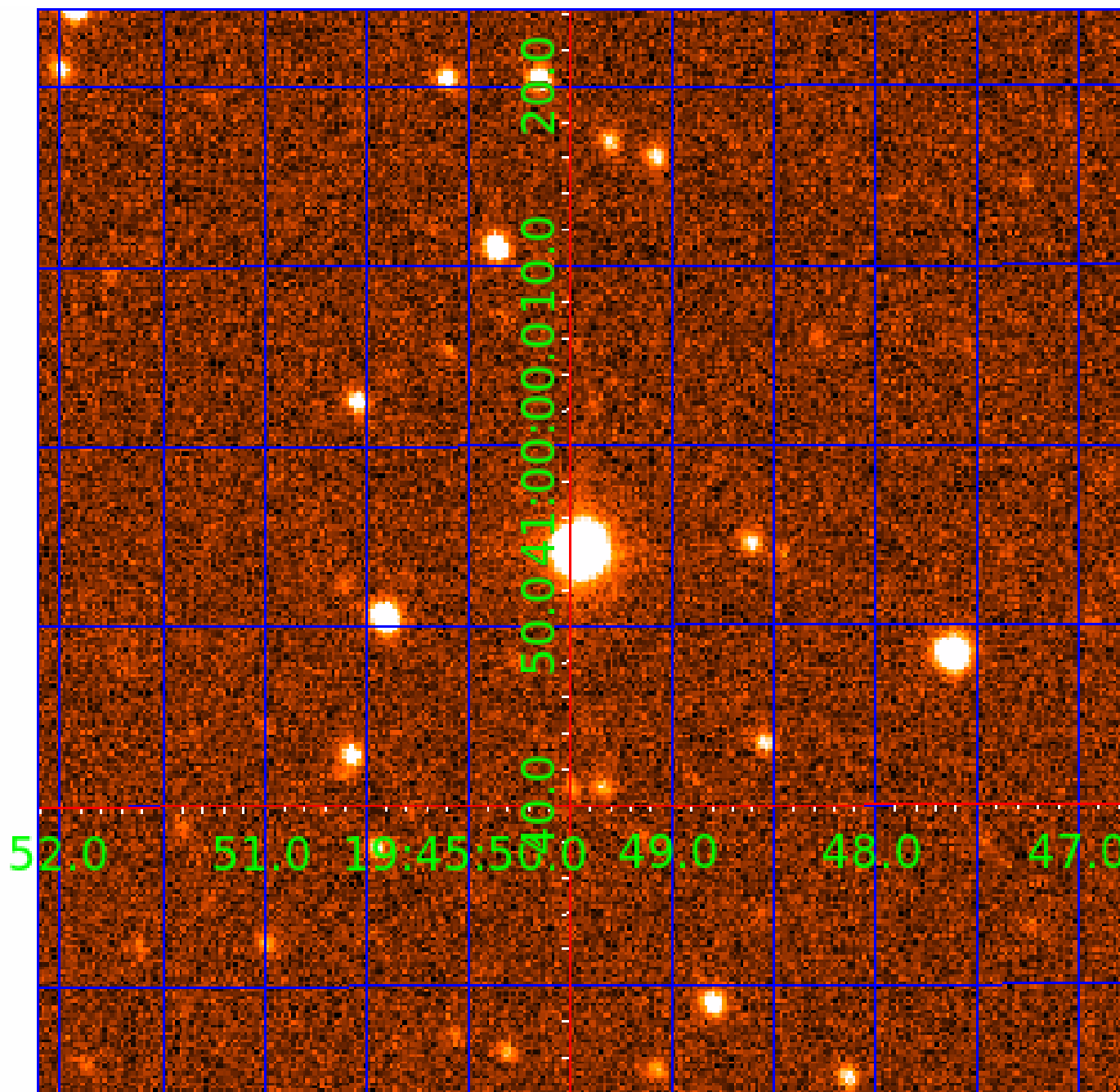


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UKIRT Image

Declination



KIC 005722668

Q1-17 DR25 TCE Parameters

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005722668-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

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

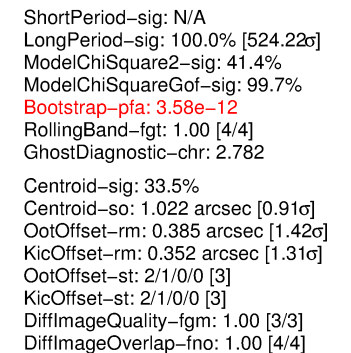
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

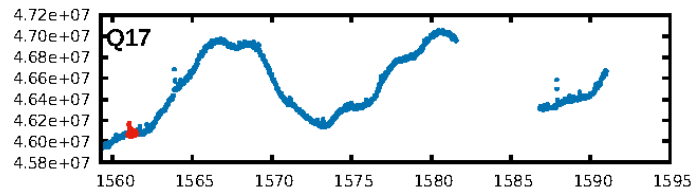
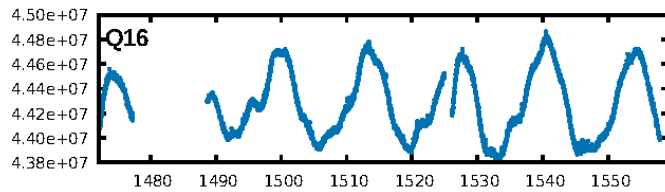
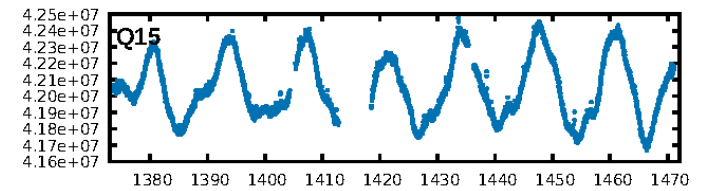
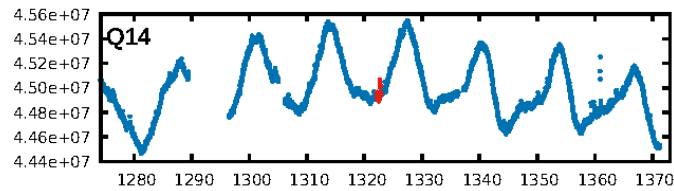
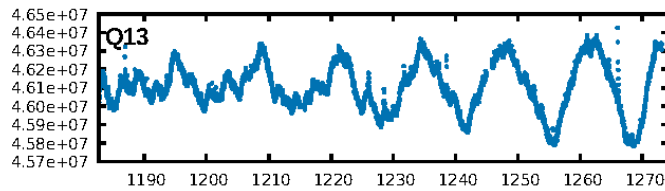
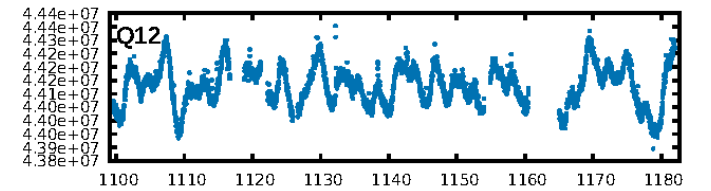
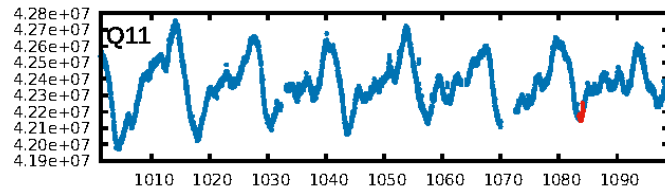
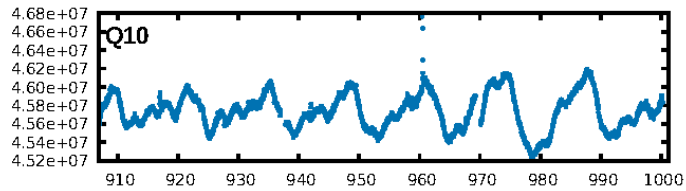
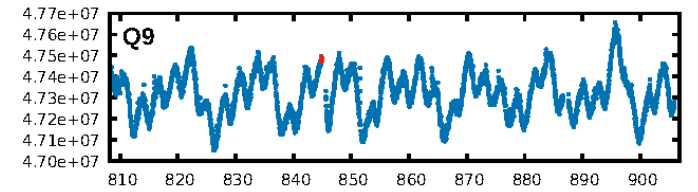
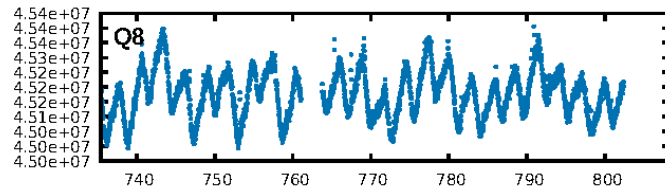
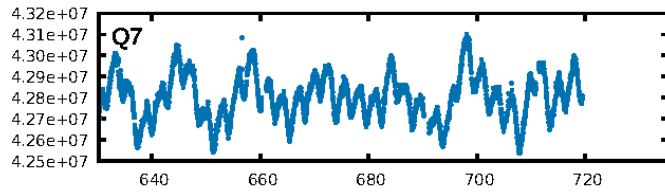
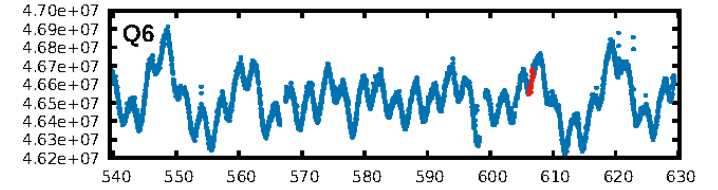
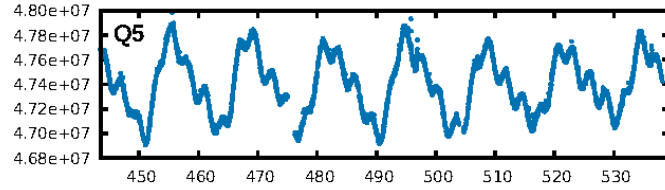
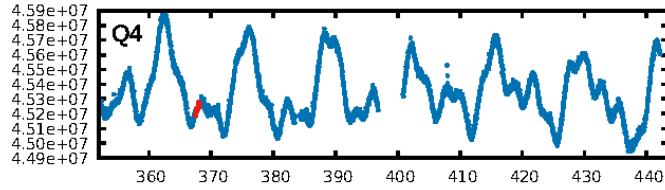
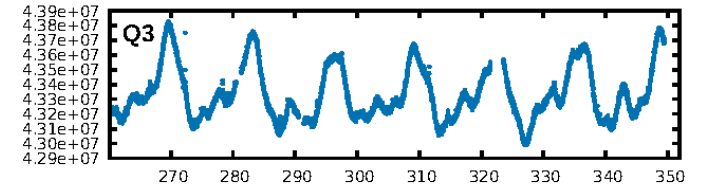
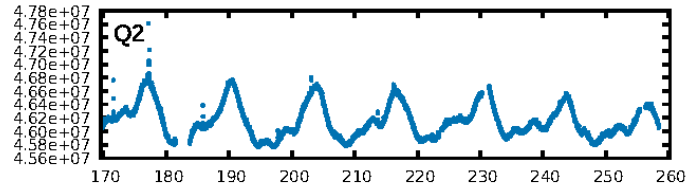
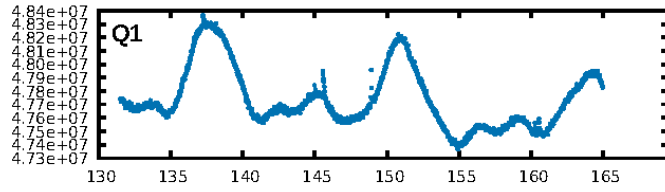
Ephemeris Match Information For 005722668-02

No Significant Match Found

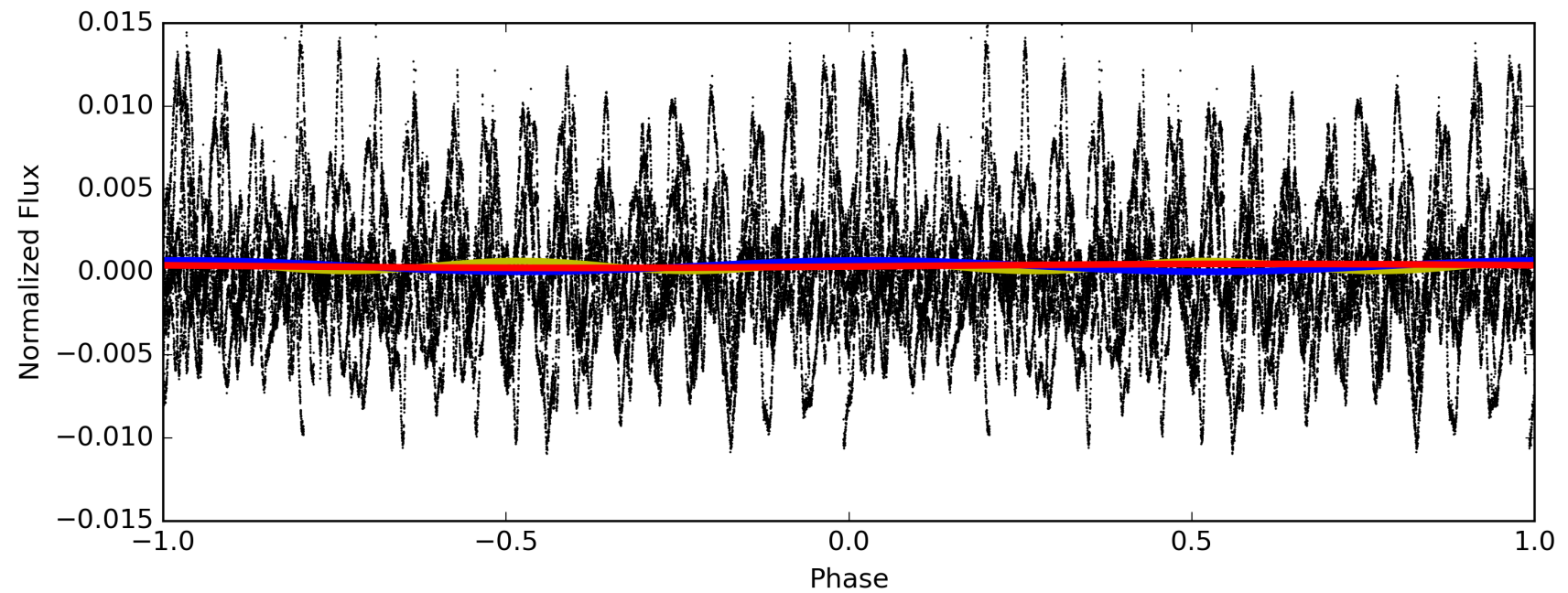
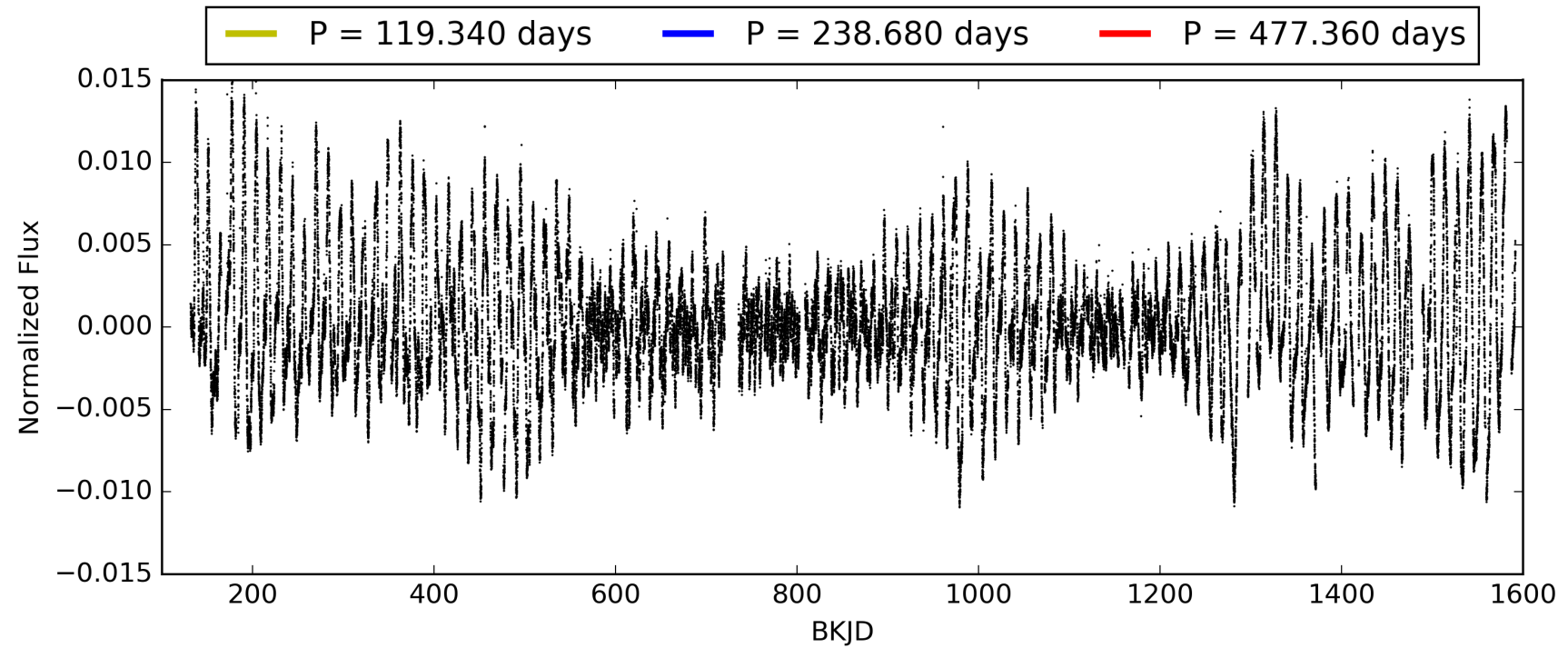
KIC: 5722668 Candidate: 2 of 3 Period: 238.680 d



TCE 005722668-02, PDC Light Curves

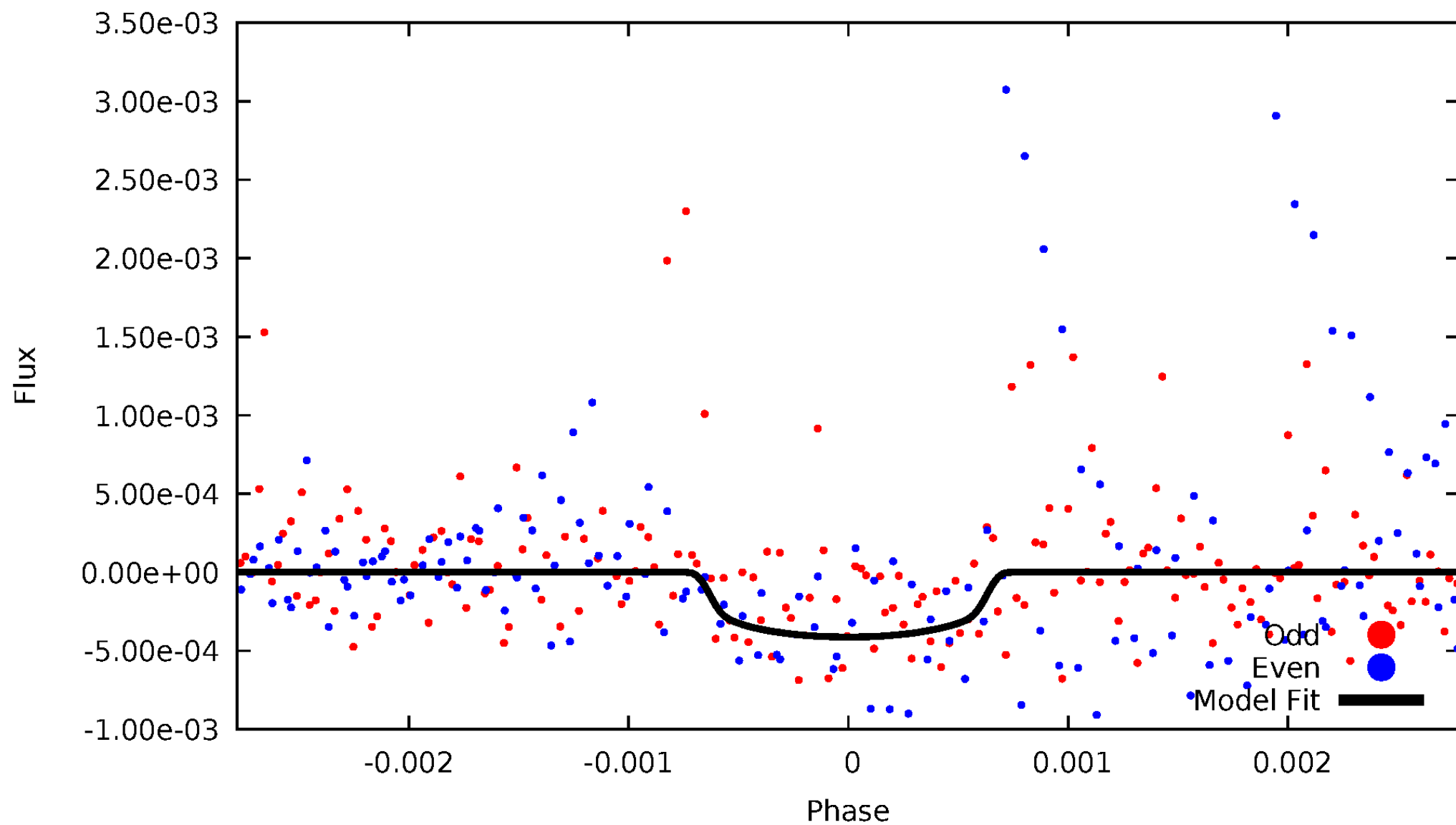


TCE 005722668-02



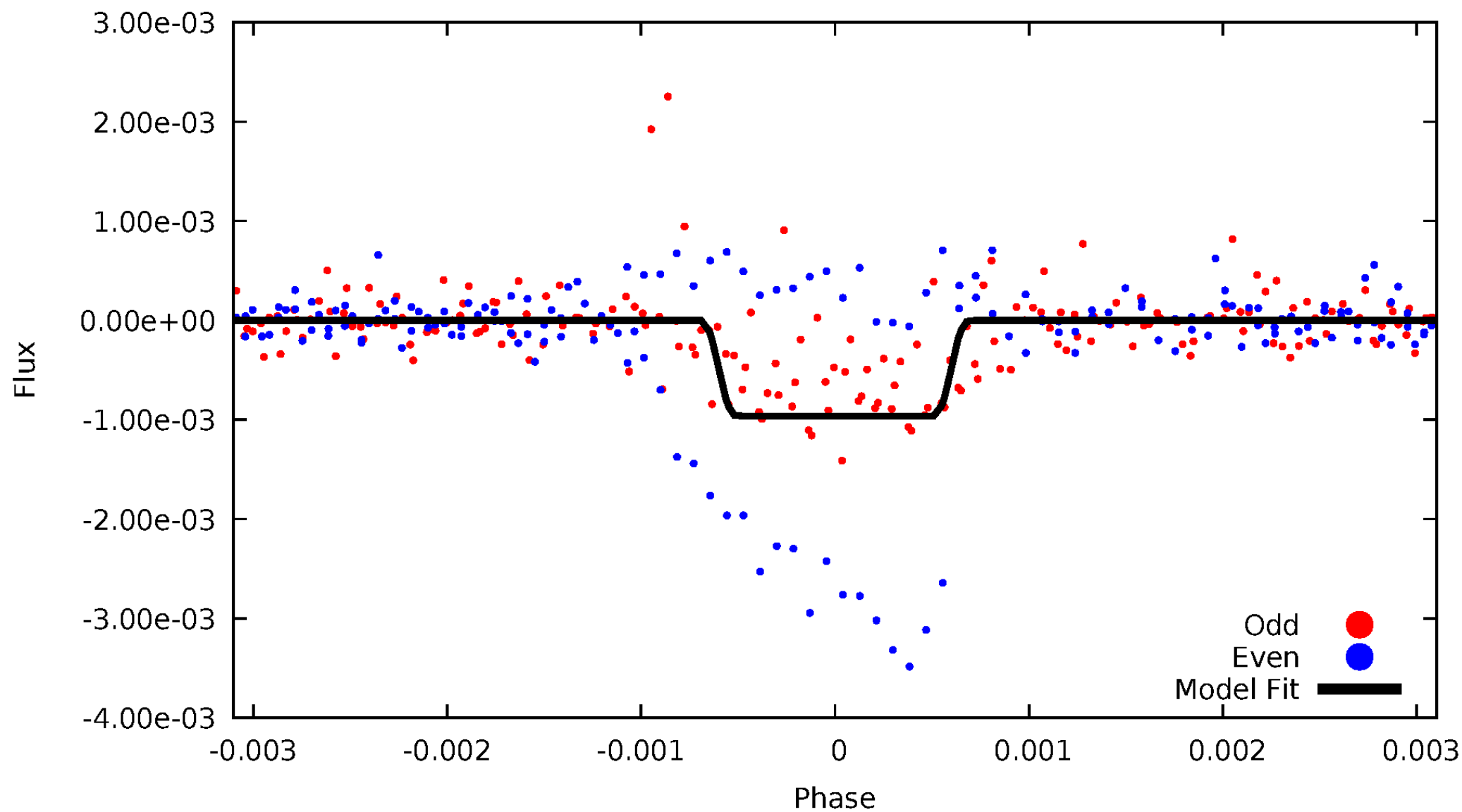
DV Odd/Even

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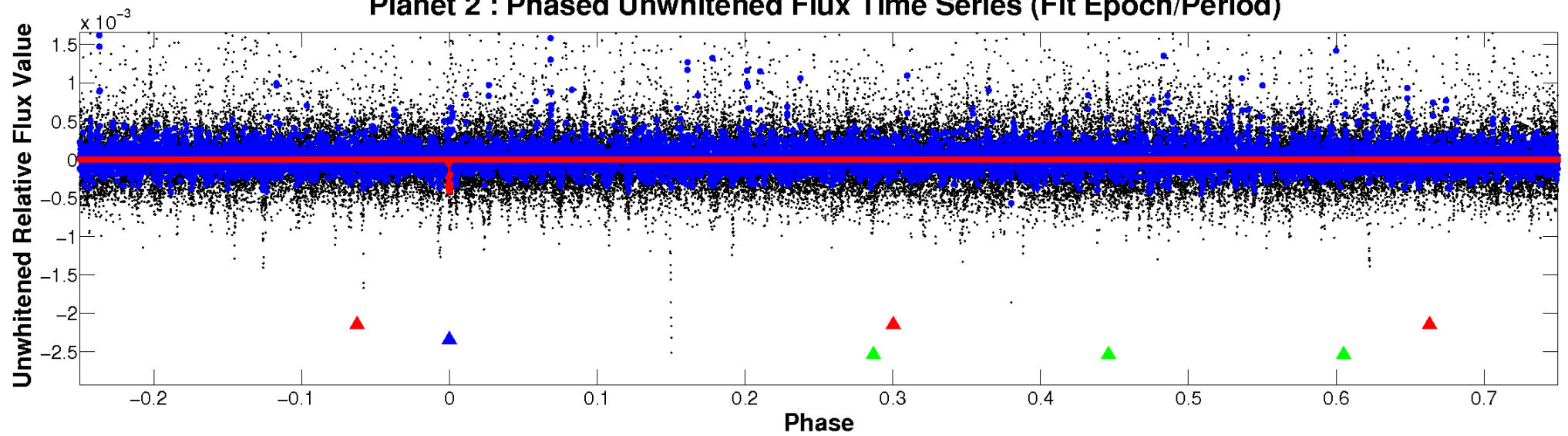
ALT Odd/Even

TCE 005722668-02

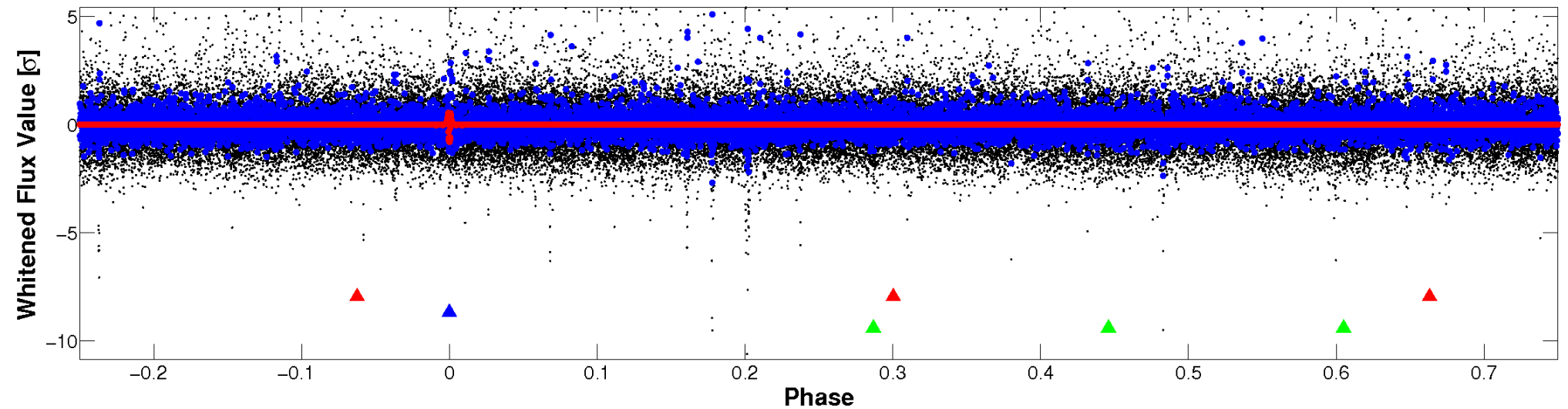


Non-Whitened Vs. Whitened Light Curve

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

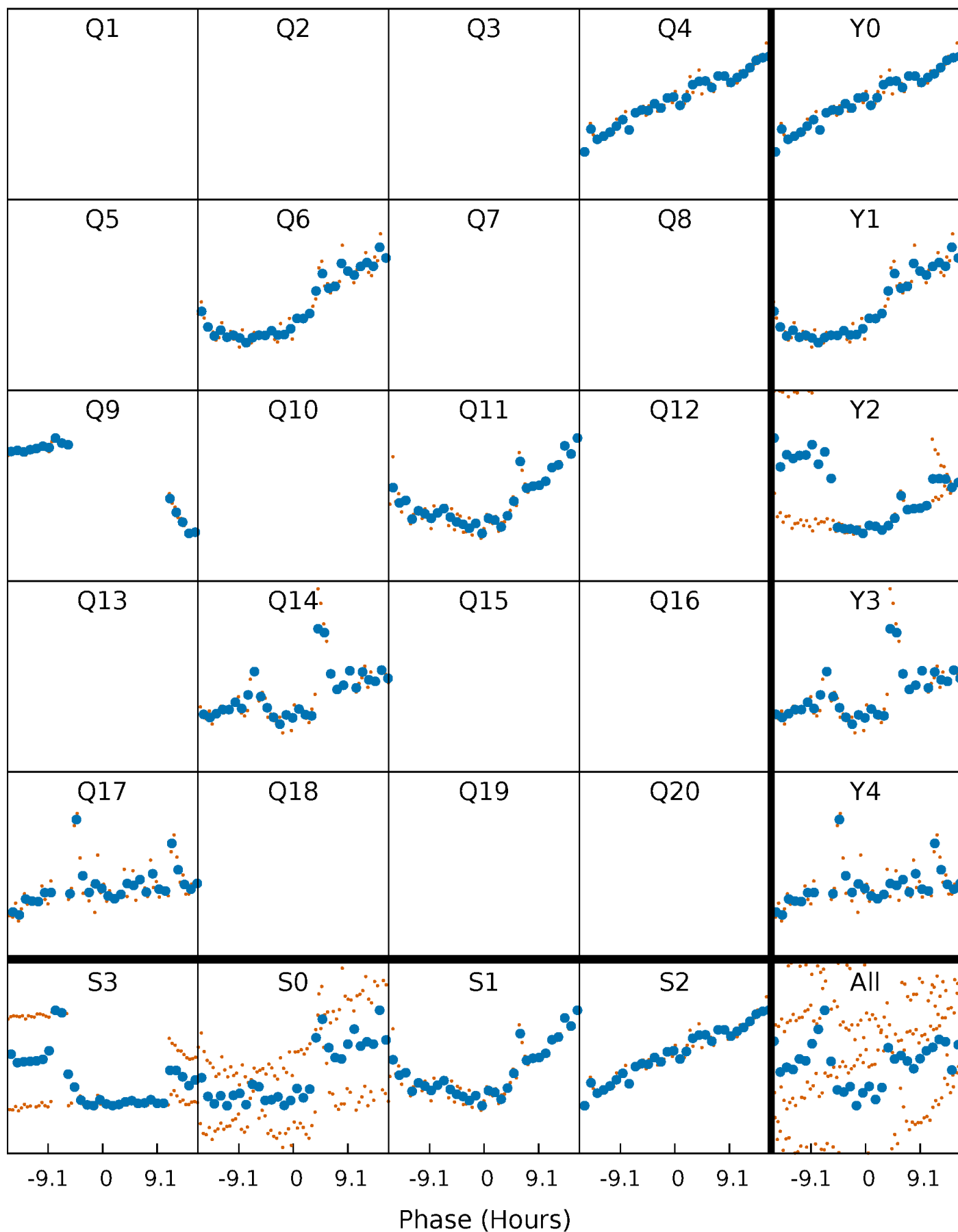


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



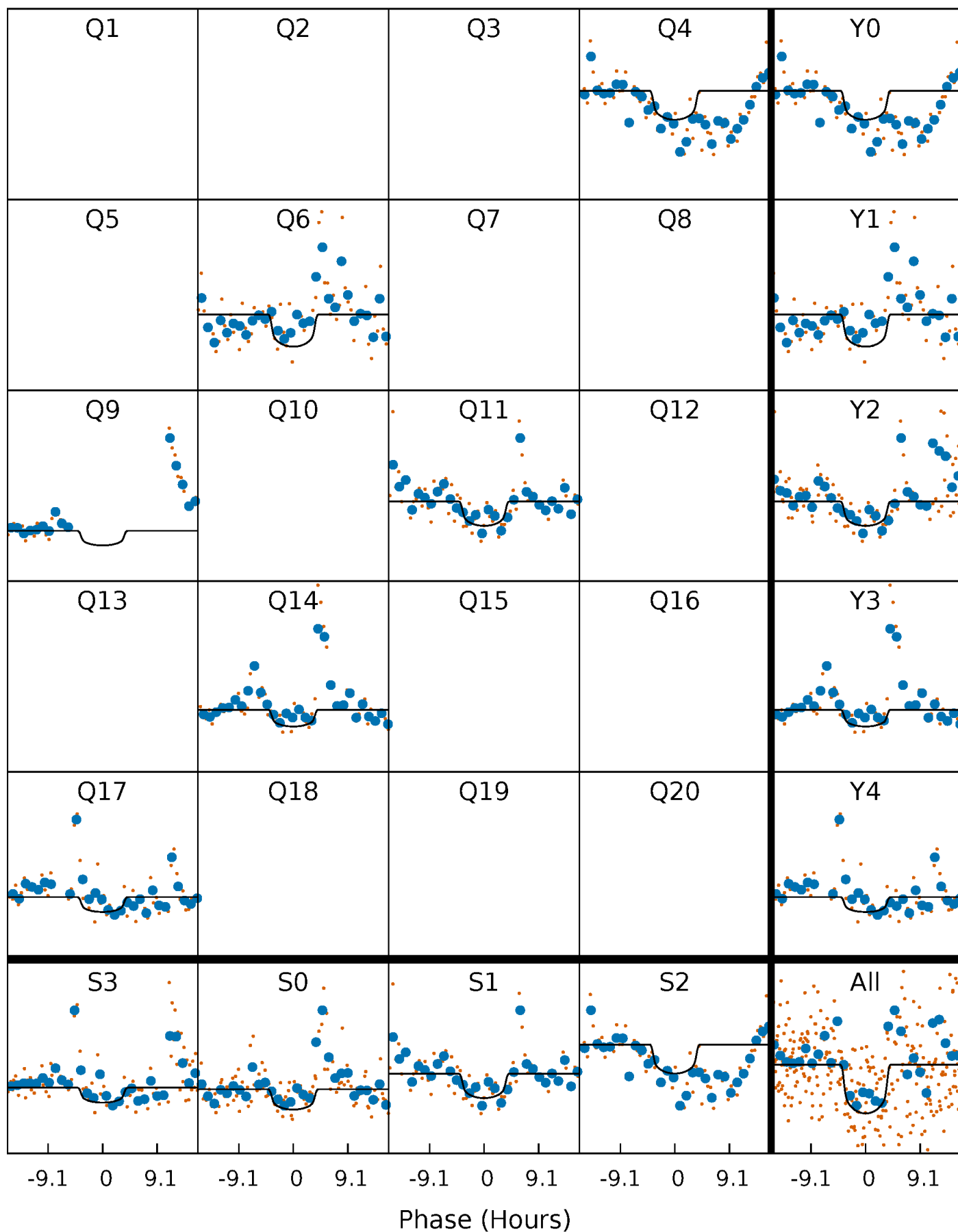
PDC Quarter-Phased Transit Curves

TCE 005722668-02 P=238.680151 Days $T_0=367.799410$ (BKJD)



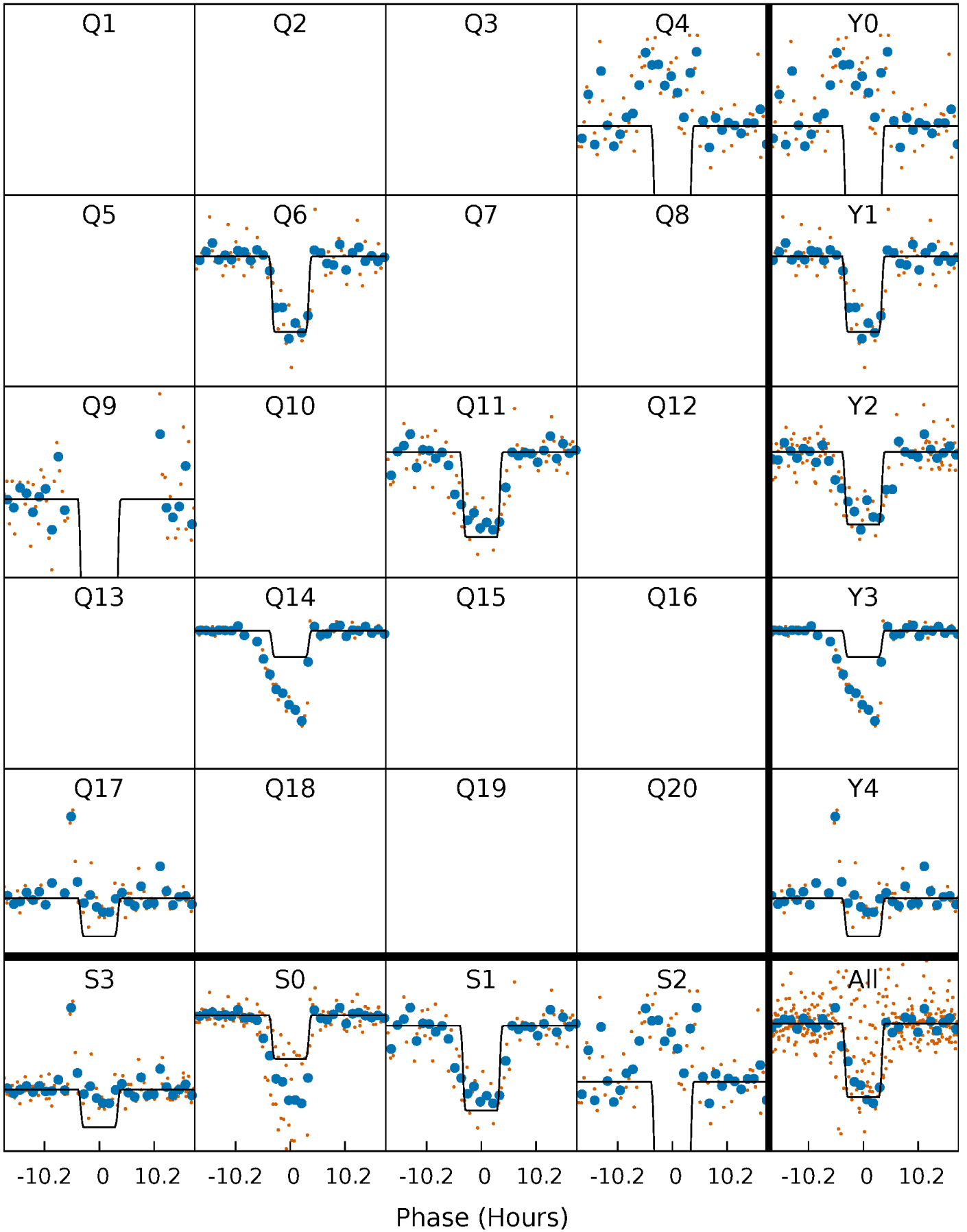
DV Quarter-Phased Transit Curves

TCE 005722668-02 $P=238.680151$ Days $T_0=367.799410$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

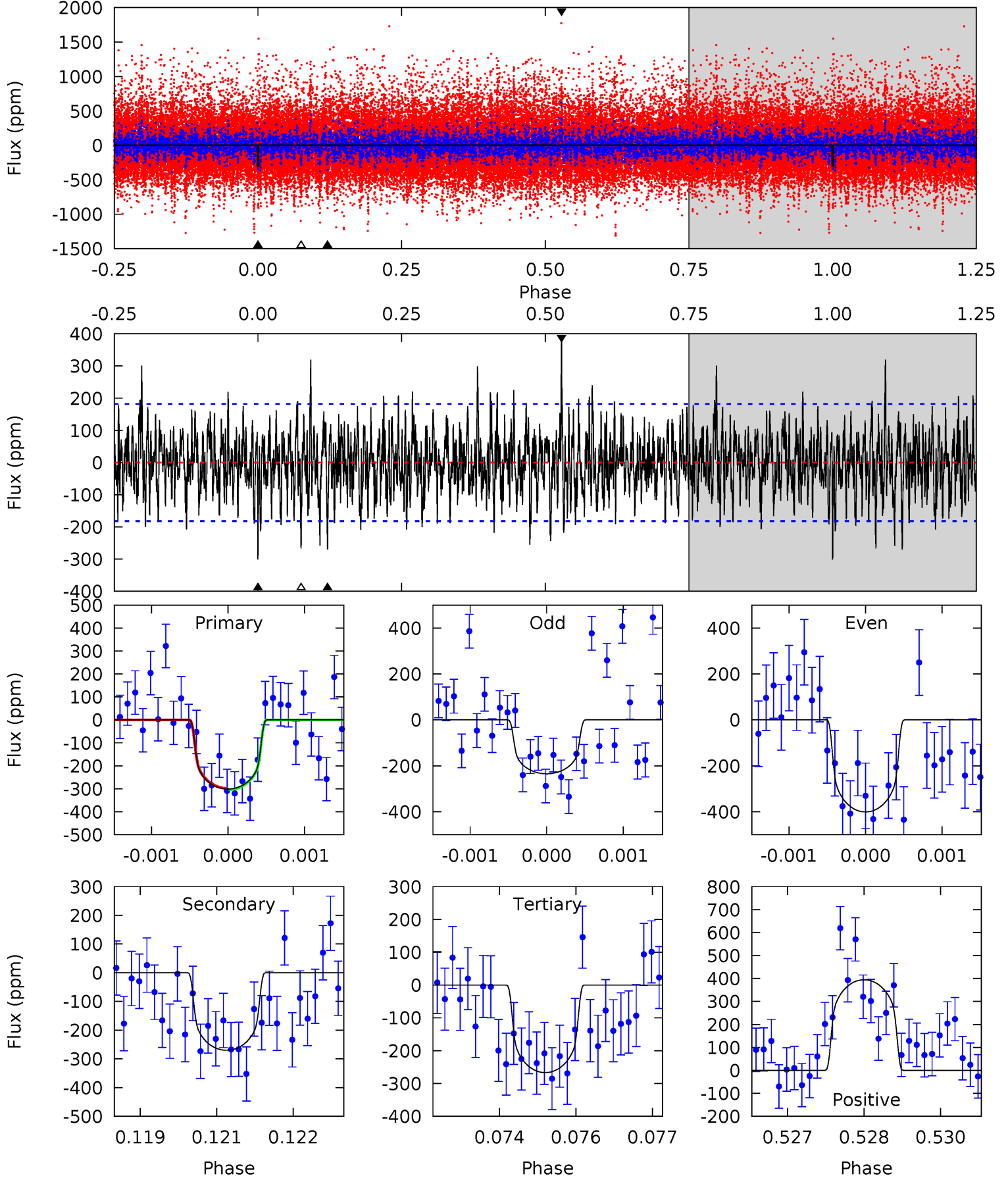
TCE 005722668-02 $P=238.691226$ Days $T_0=367.773291$ (BKJD)



DV Model-Shift Uniqueness Test

005722668-02, P = 238.680151 Days, E = 129.119259 Days

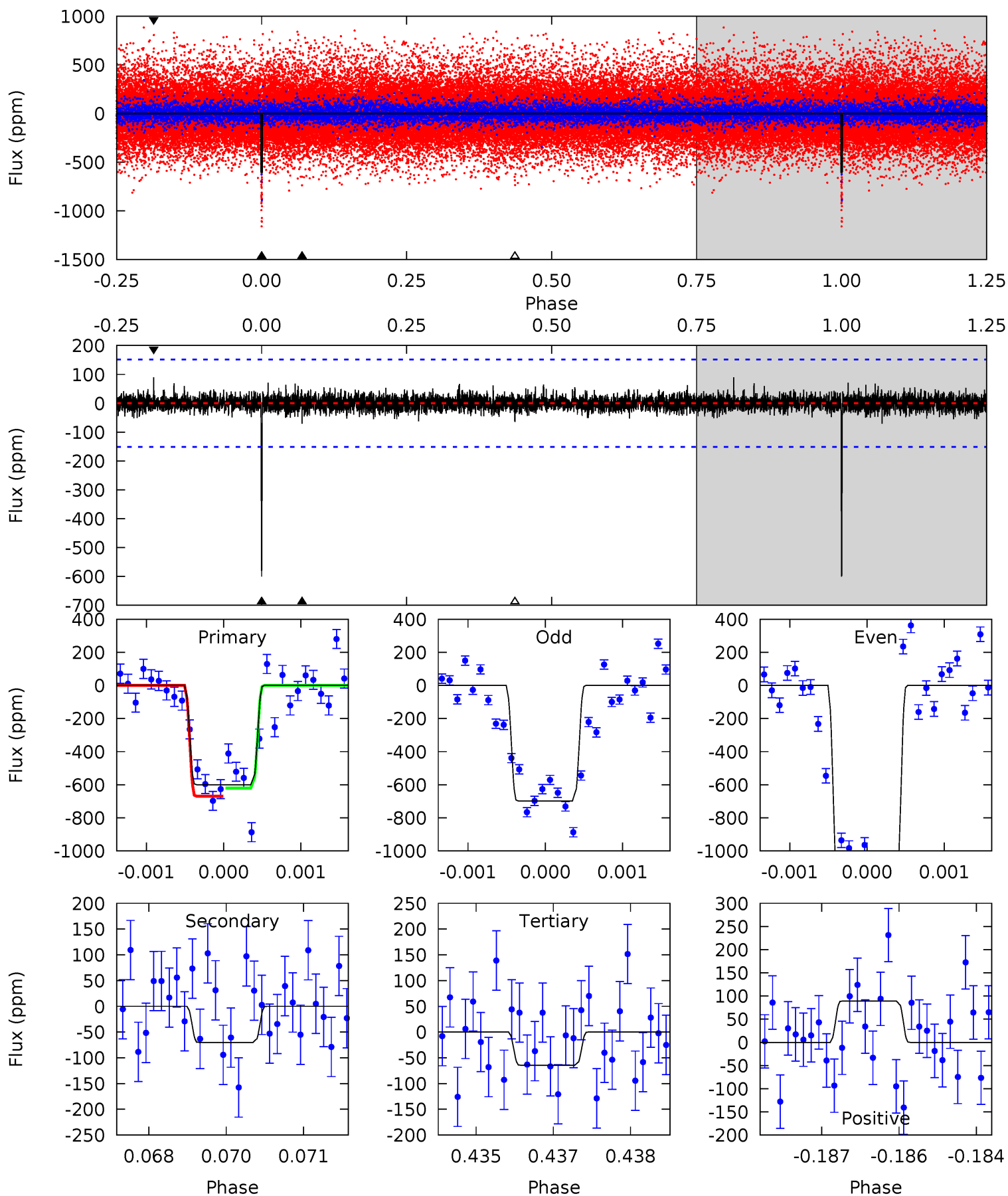
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.92	7.99	7.90	11.7	5.38	3.18	2.43	1.02	-2.76	0.10	-3.68	2.40	1.58	0.57	0.08



Alt Model-Shift Uniqueness Test

005722668-02, P = 238.691226 Days, E = 129.082065 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.4	2.50	2.30	3.18	5.40	3.20	0.57	19.1	18.2	0.20	-0.68	11.9	1.02	0.13	0.86



Stellar Parameters For KIC 005722668

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4234^{+115}_{-141}	$4.619^{+0.056}_{-0.016}$	$0.020^{+0.250}_{-0.300}$	$0.650^{+0.031}_{-0.063}$	$0.640^{+0.056}_{-0.056}$	$3.283^{+0.827}_{-0.282}$
	+3%/-3%	+1%/-0%	+1250%/-1500%	+5%/-10%	+9%/-9%	+25%/-9%
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 005722668-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-270 ± 34	$1.53^{+0.49}_{-0.47}$	259^{+8}_{-9}	3823^{+528}_{-344}	27285^{+28298}_{-11890}
Alt.	-70 ± 28	$2.19^{+0.48}_{-0.50}$	259^{+7}_{-9}	2793^{+248}_{-221}	3450^{+2699}_{-1626}

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

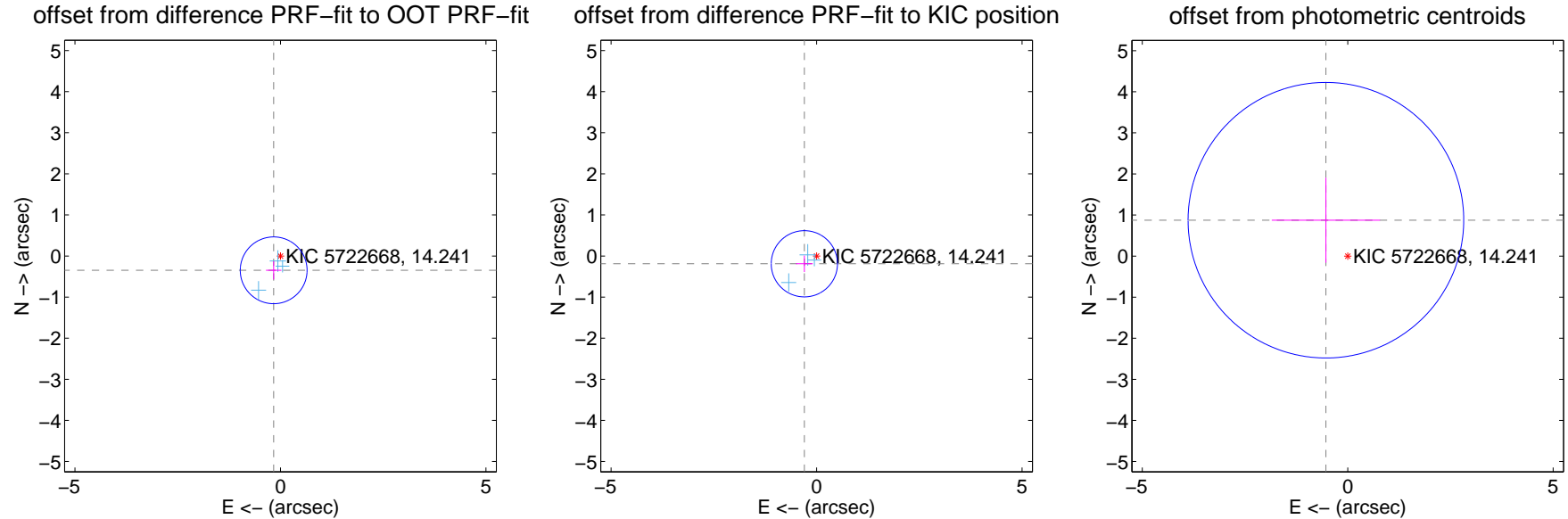
DV Centroid Data

Supplemental centroid analysis for 005722668-02. Kepler magnitude: 14.24. Transit SNR 6.59

There are 3 quarters with good PRF difference image offsets

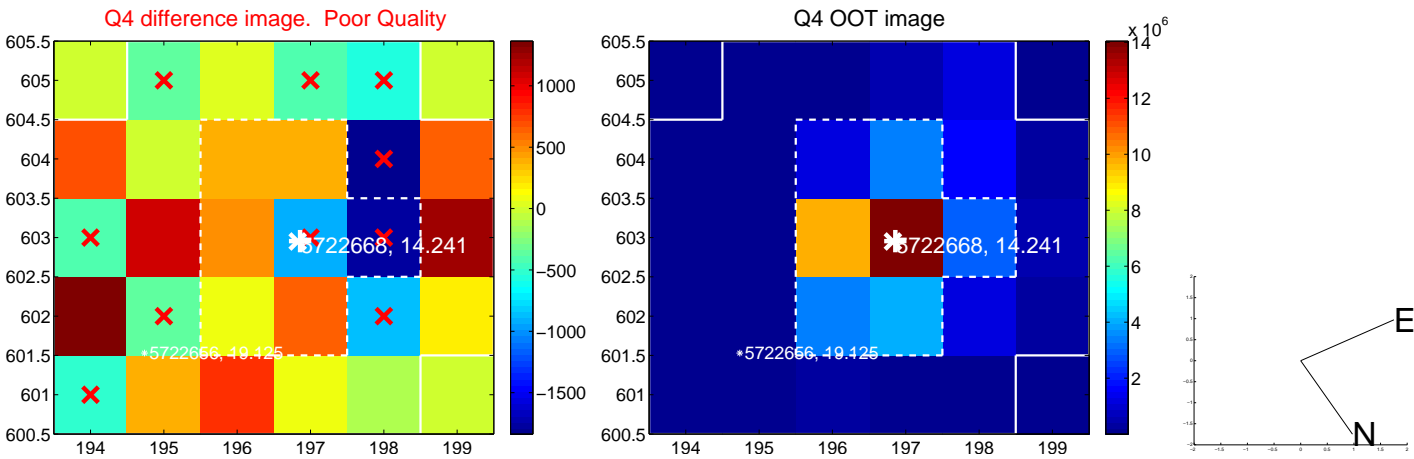
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.385 ± 0.271	1.42	0.165 ± 0.188	-0.348 ± 0.223
PRF-fit source offset from KIC position	0.352 ± 0.269	1.31	0.298 ± 0.203	-0.189 ± 0.199
photometric centroid source offset	1.02 ± 1.12	0.91	0.53 ± 1.32	0.87 ± 1.03



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.

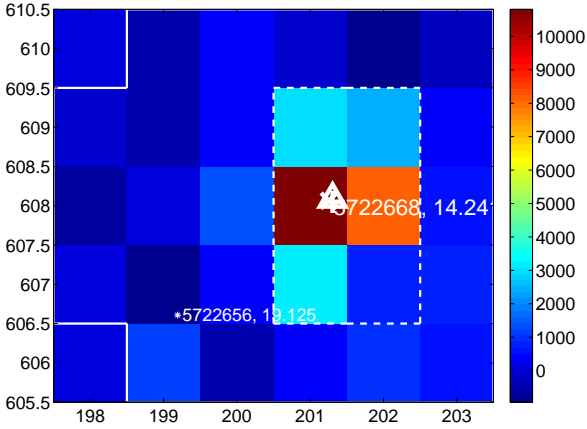
Q5 no difference image



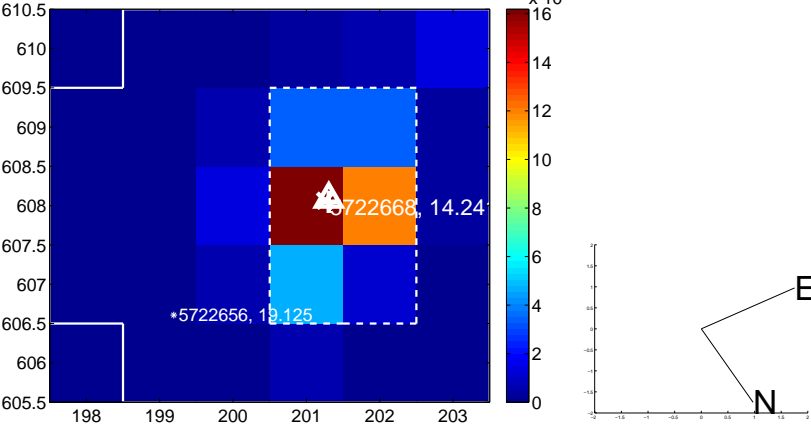
Q5 no OOT image



Q6 difference image



Q6 OOT image



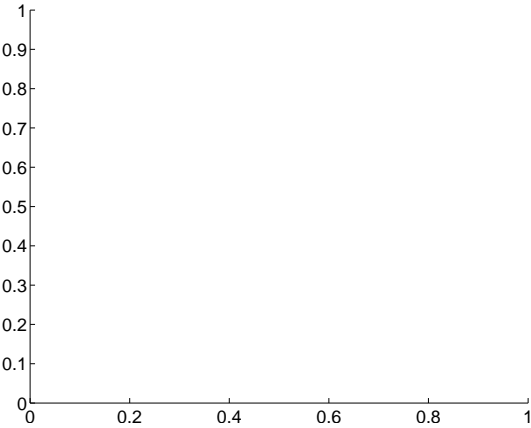
Q7 no difference image



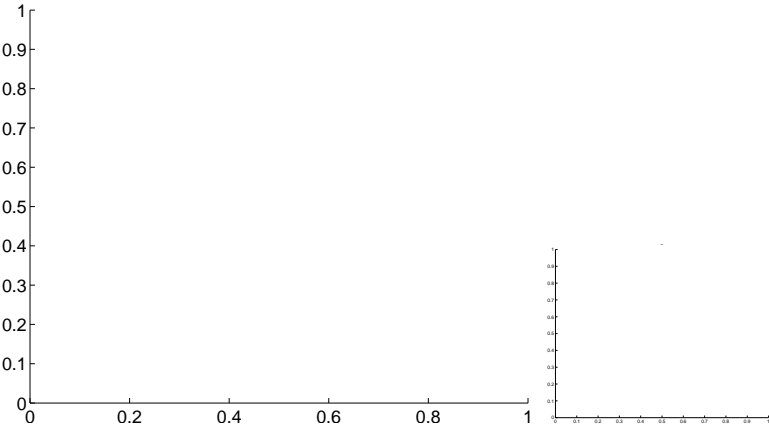
Q7 no OOT image



Q8 no difference image



Q8 no OOT image



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

Q9 no difference image



Q9 no OOT image



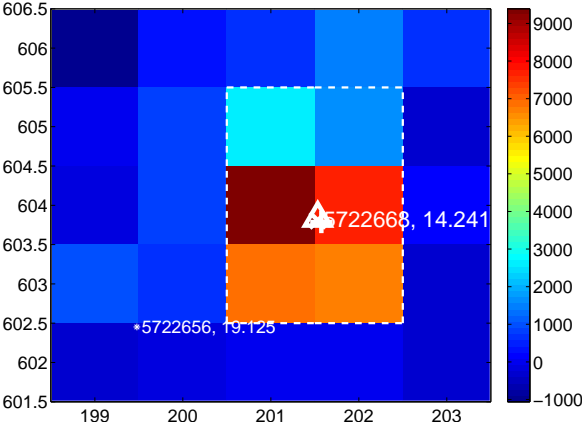
Q10 no difference image



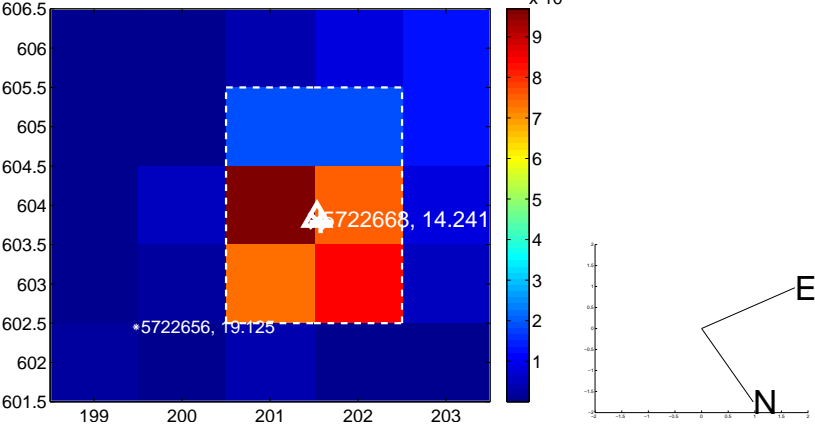
Q10 no OOT image



Q11 difference image



Q11 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.

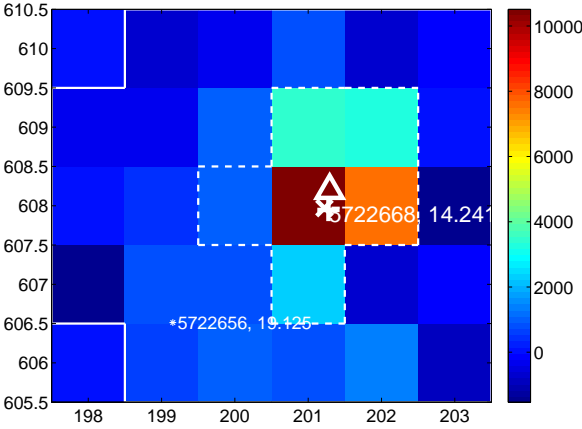
Q13 no difference image



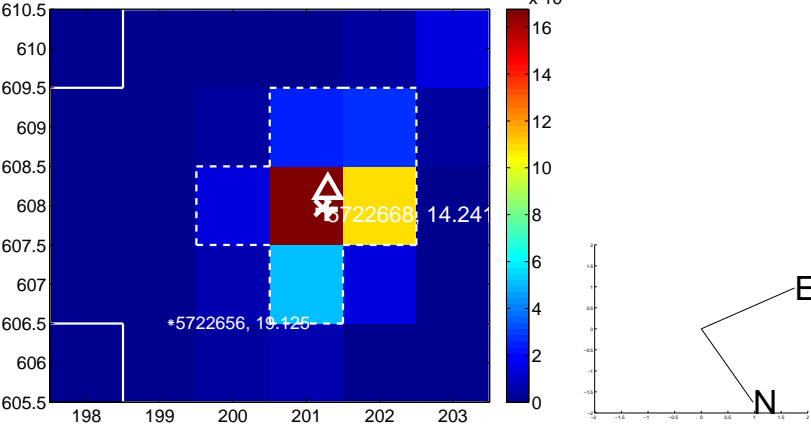
Q13 no OOT image



Q14 difference image



Q14 OOT image



Q15 no difference image



Q15 no OOT image



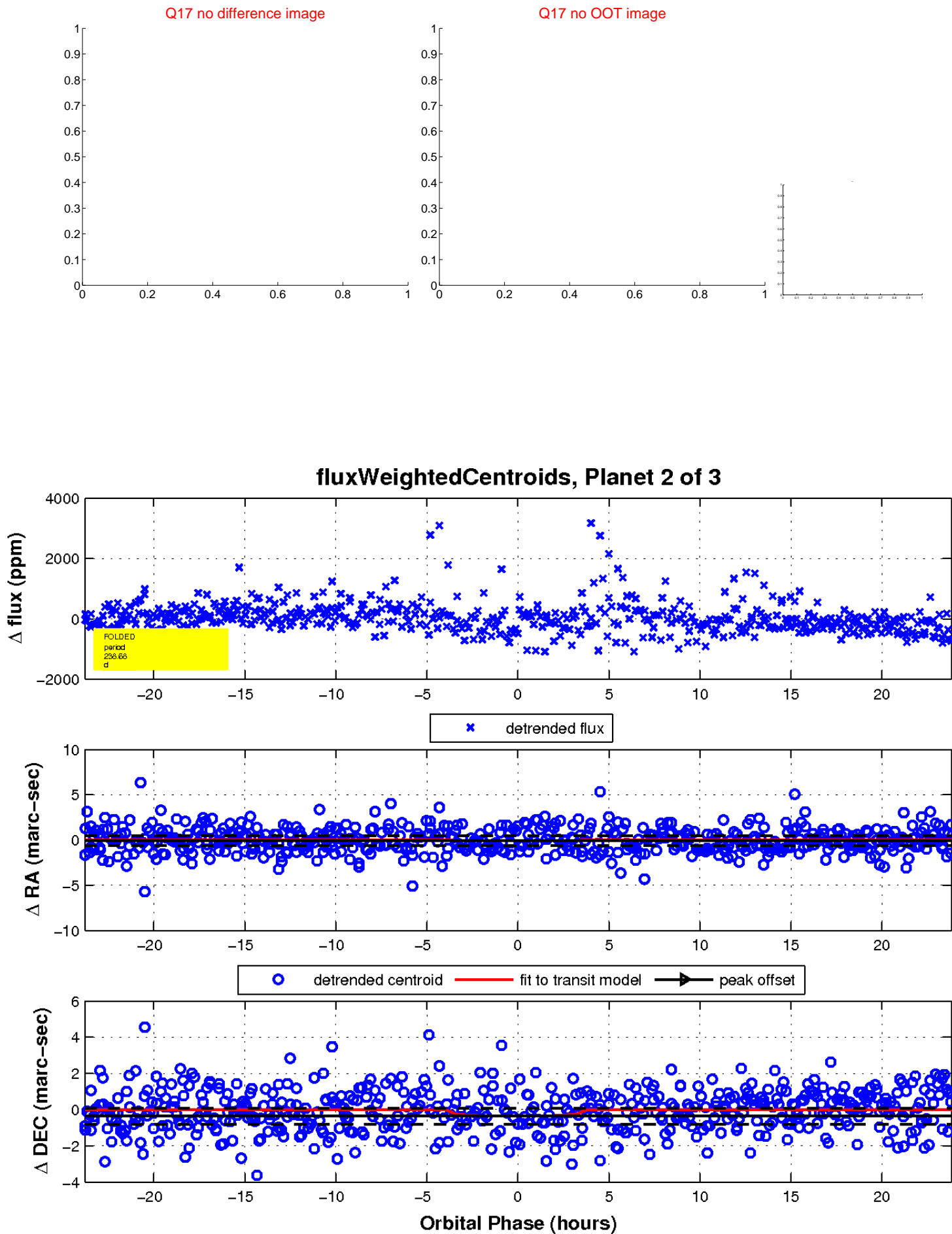
Q16 no difference image



Q16 no OOT image

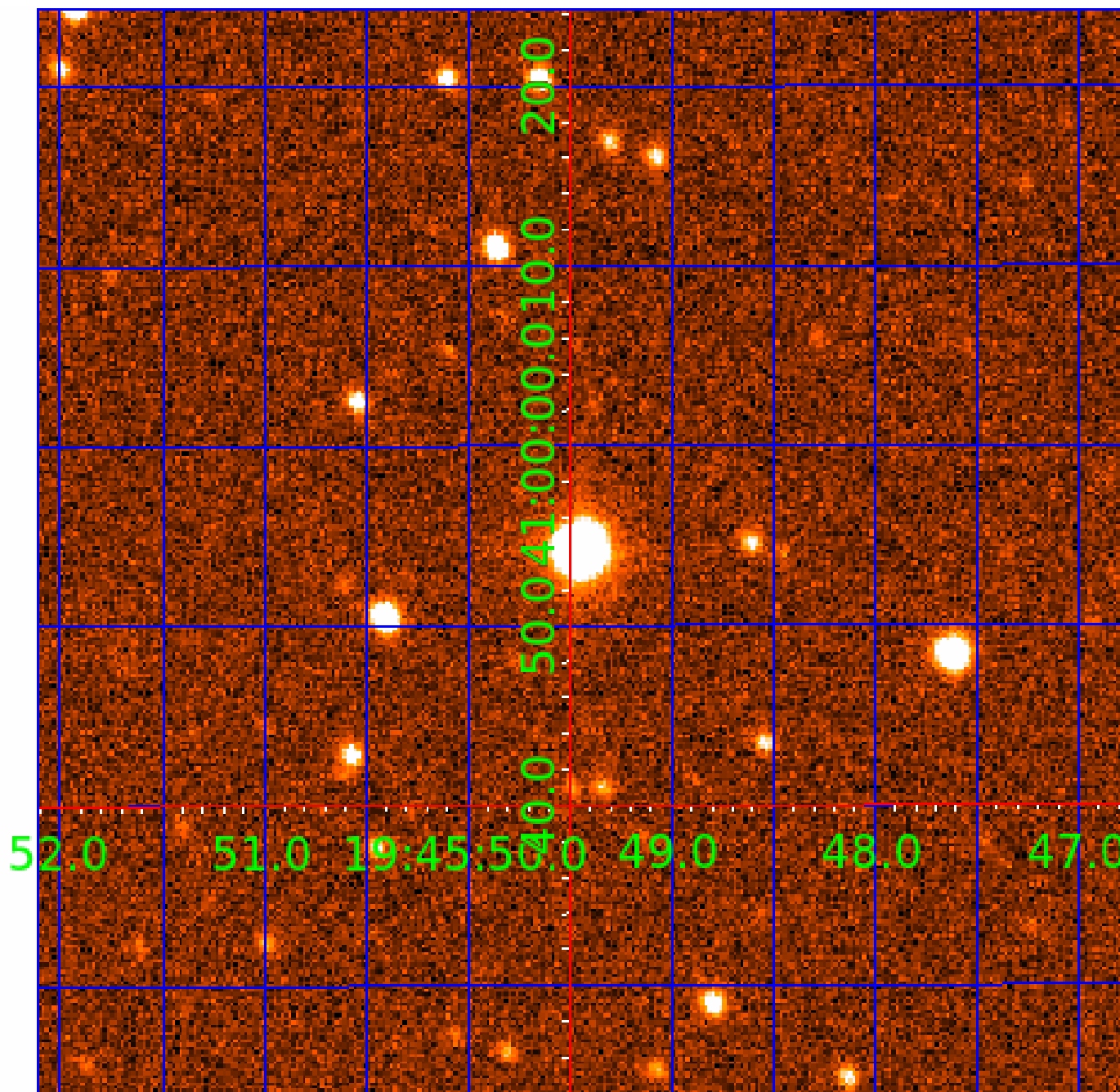


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005722668

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})
005722668-01	OBS	No	629.450128	287.403219	566.4	6.056	12.2	6.2	0.65	4234	1.66	0.08
005722668-02	OBS	No	238.680151	367.799410	413.1	7.965	10.5	6.6	0.65	4234	1.57	0.29
005722668-03	OBS	No	515.324714	197.602612	584.7	9.848	10.2	5.8	0.65	4234	1.75	0.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005722668-01	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
005722668-02	OBS	FP	0.00	1	0	0	0	ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
005722668-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST

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

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

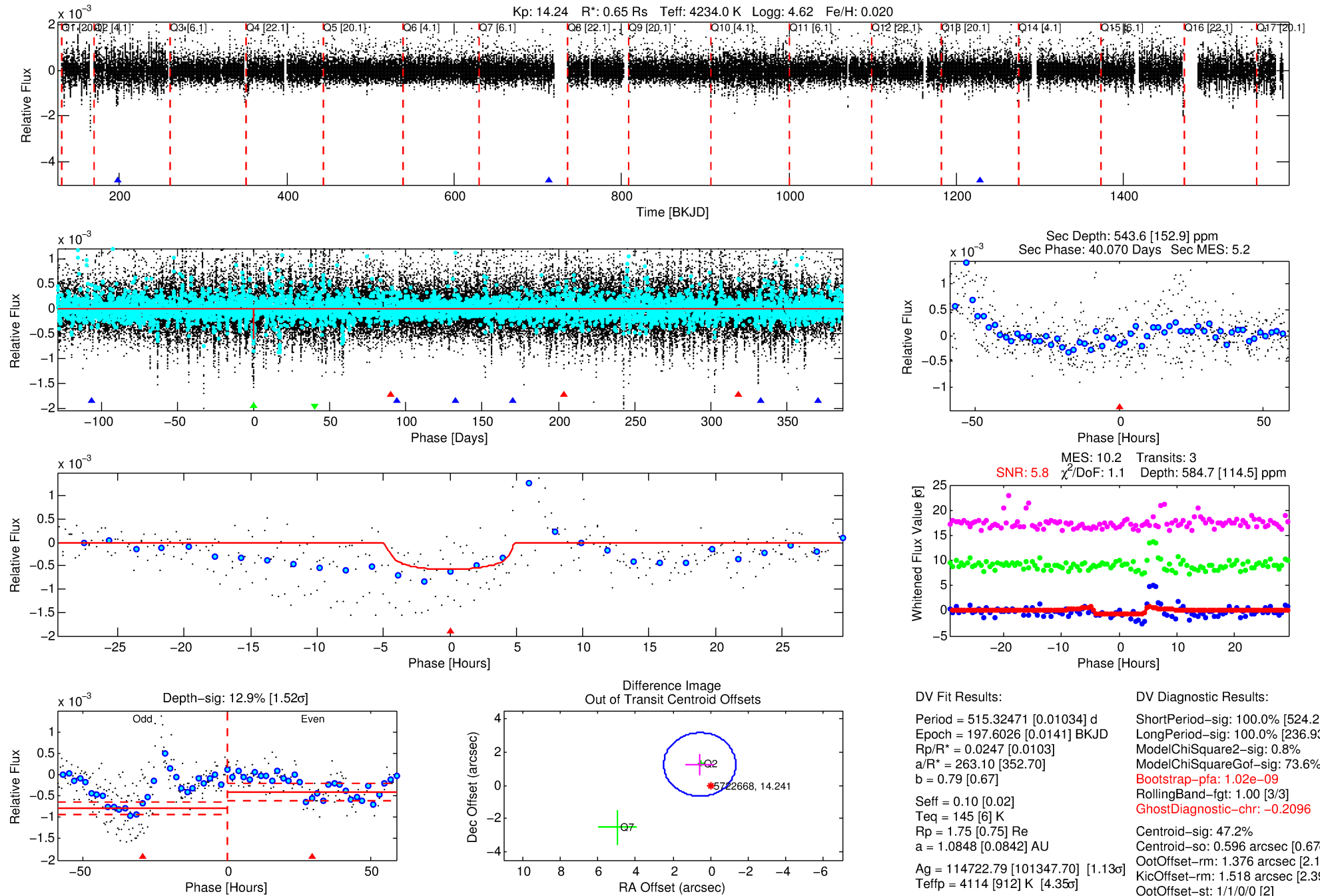
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005722668-03

No Significant Match Found

DV One-Page Summary

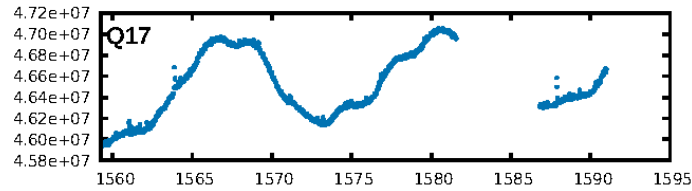
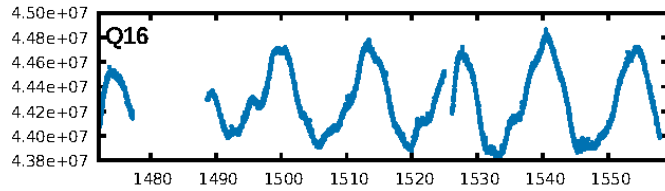
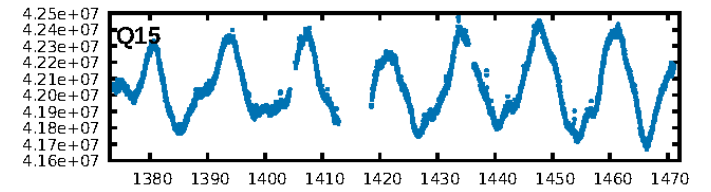
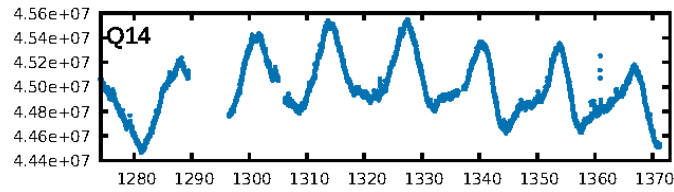
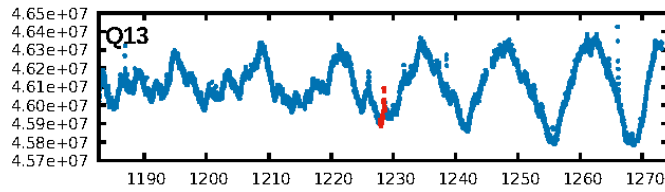
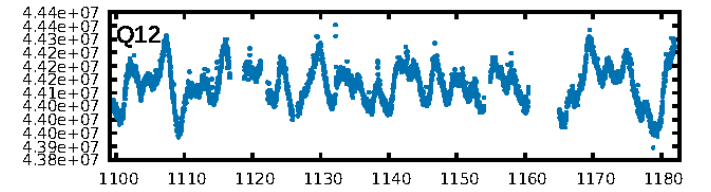
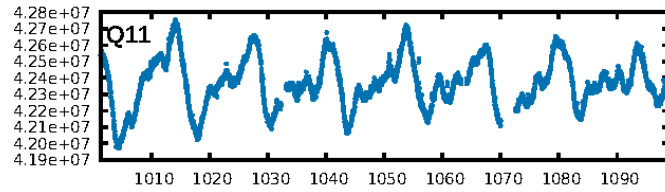
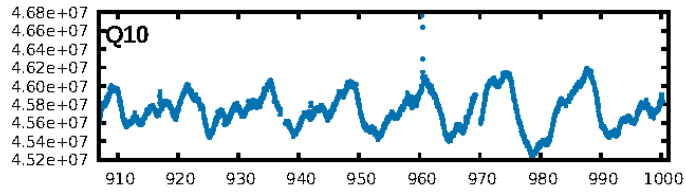
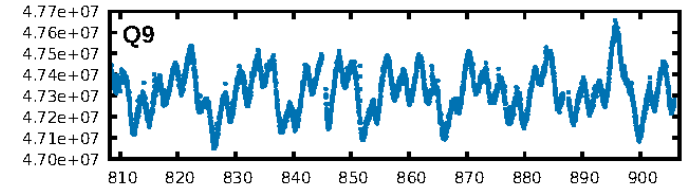
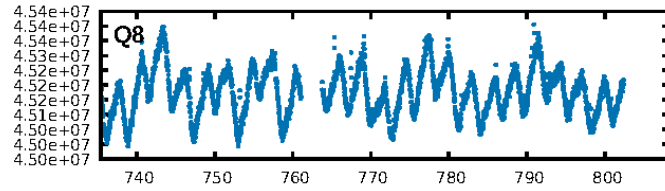
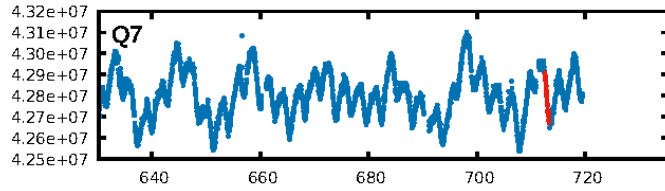
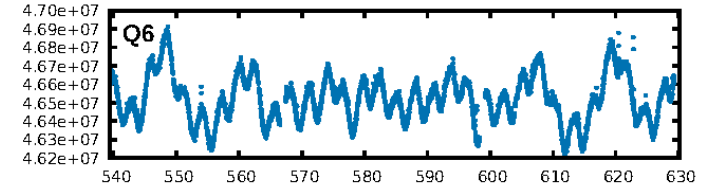
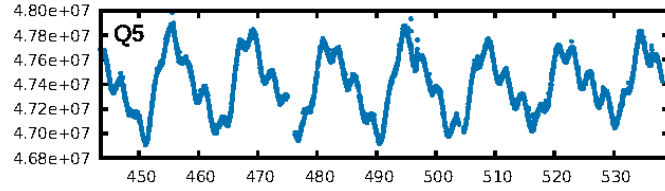
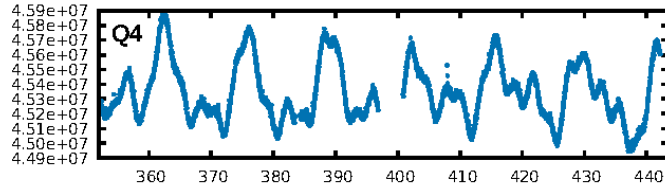
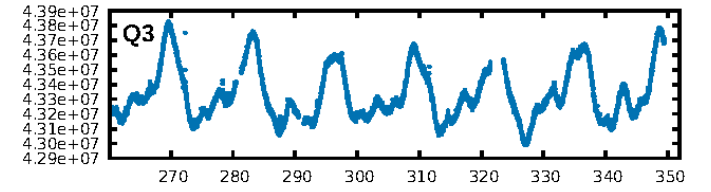
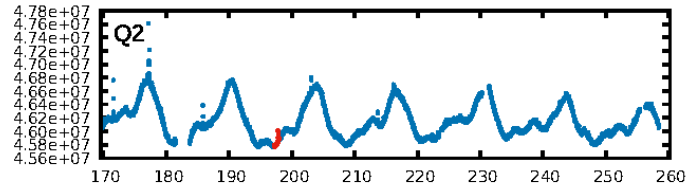
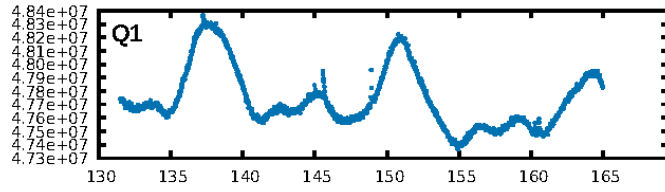
KIC: 5722668 Candidate: 3 of 3 Period: 515.325 d



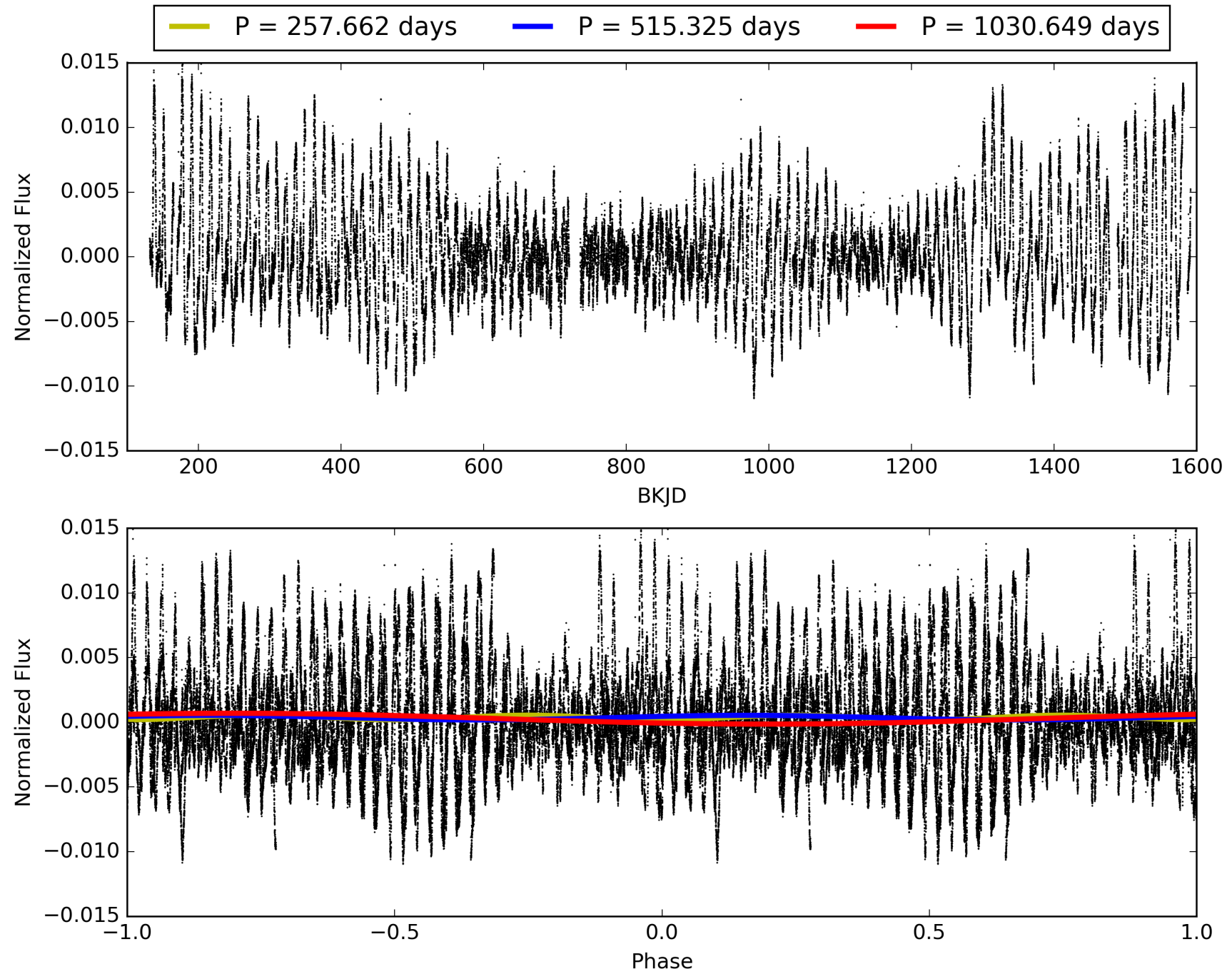
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 23:59:59 Z

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

TCE 005722668-03, PDC Light Curves

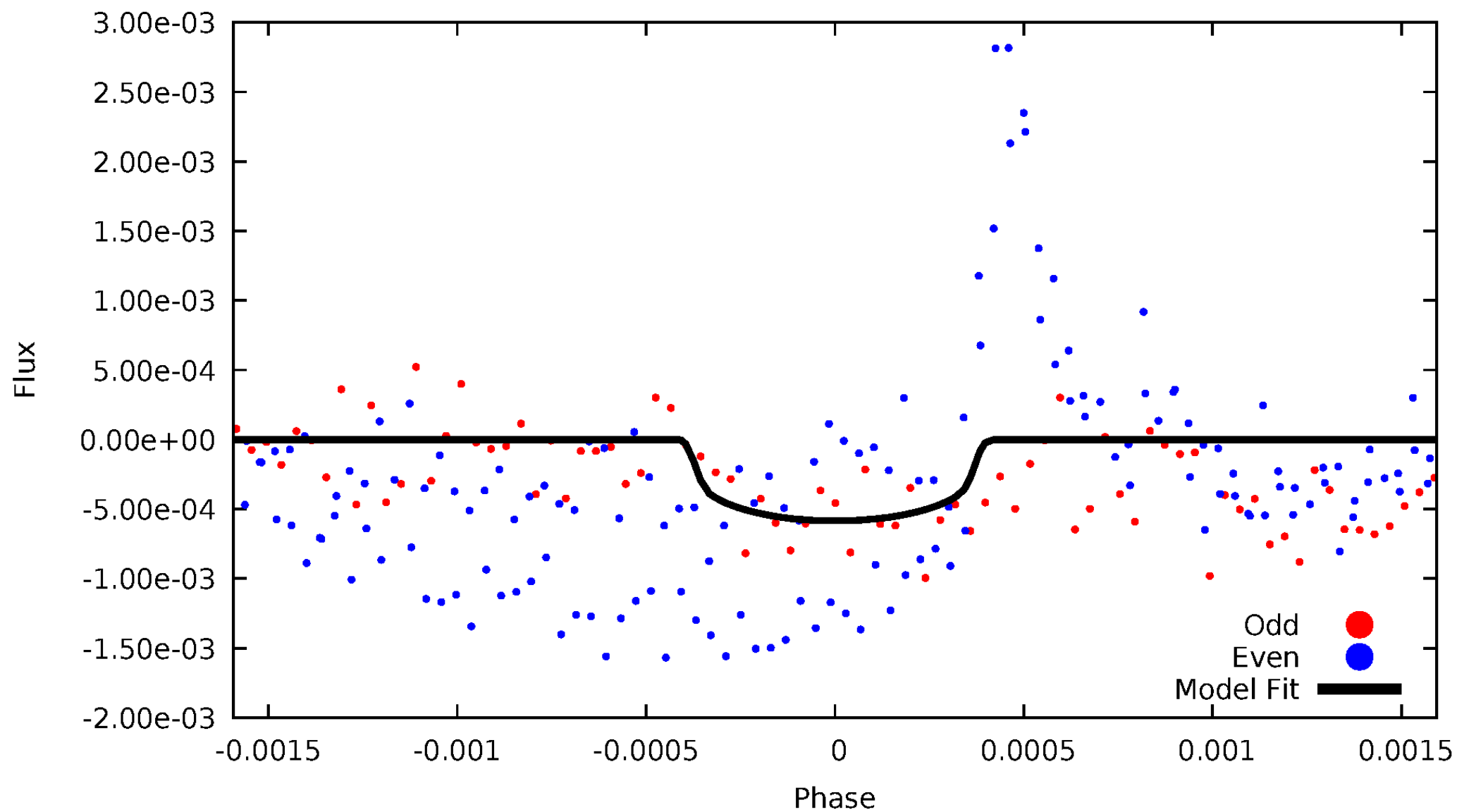


TCE 005722668-03



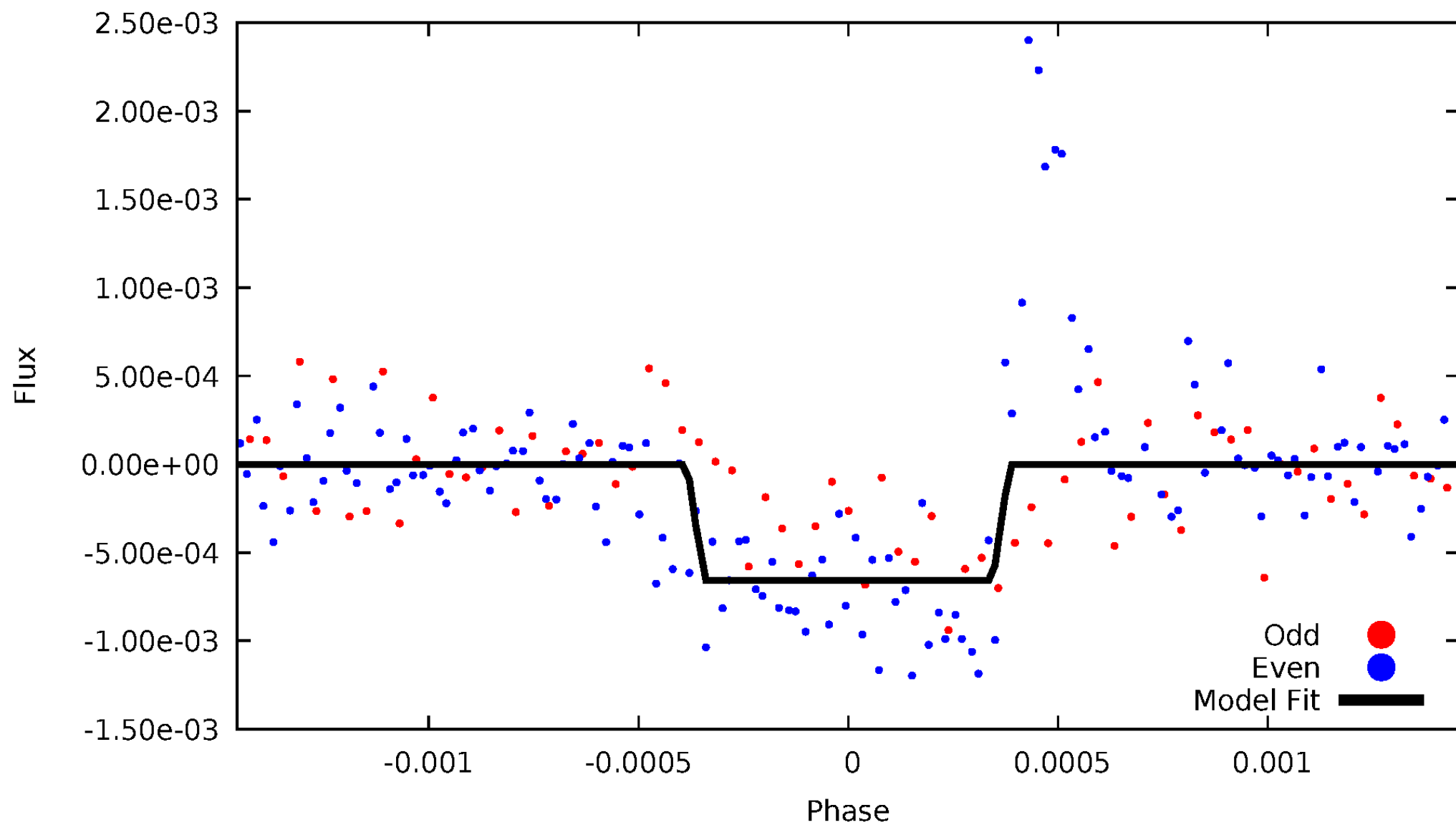
DV Odd/Even

TCE 005722668-03



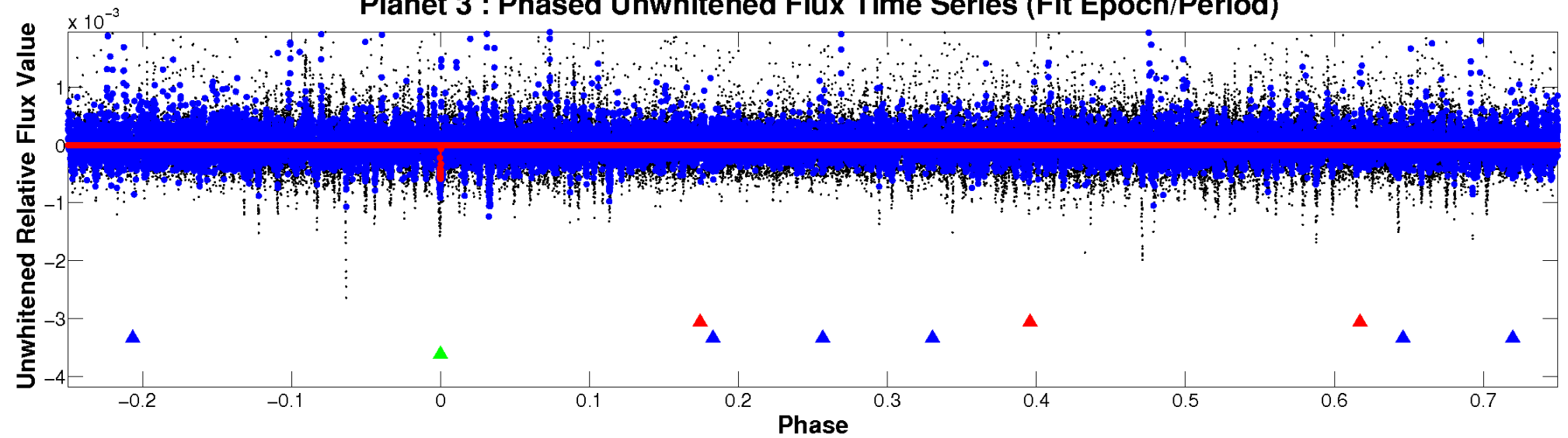
ALT Odd/Even

TCE 005722668-03

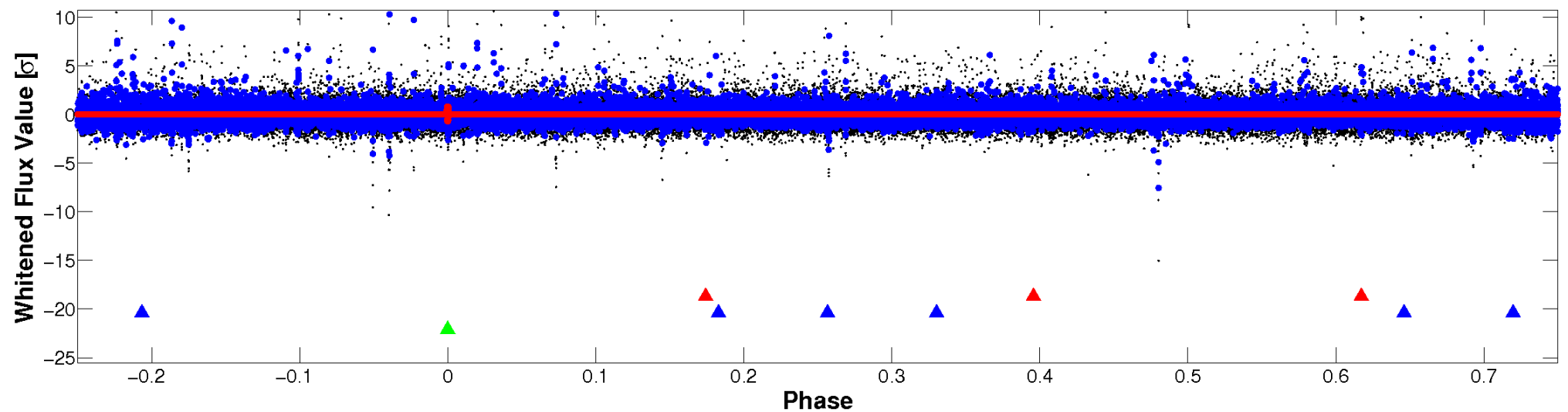


Non-Whitened Vs. Whitened Light Curve

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

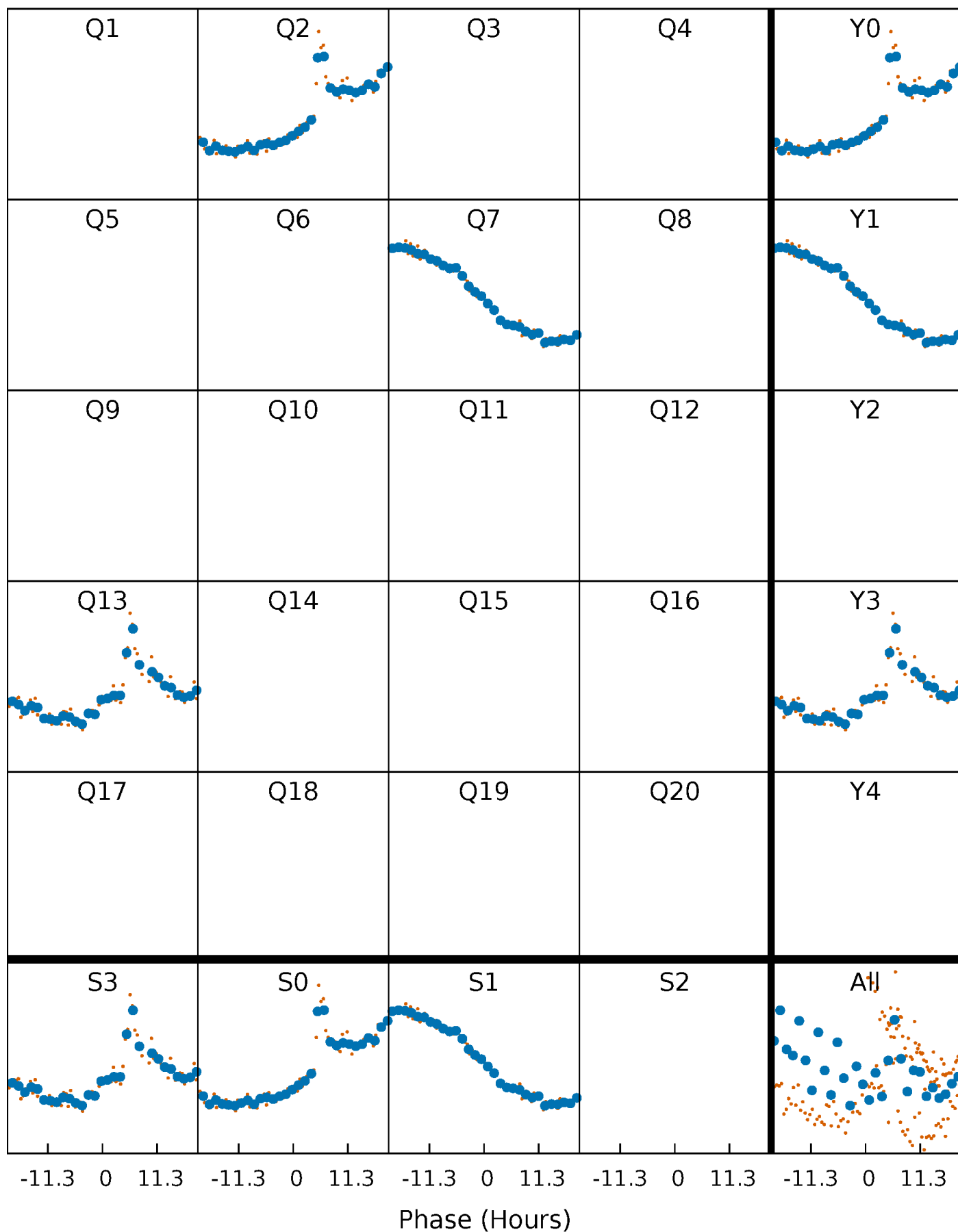


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



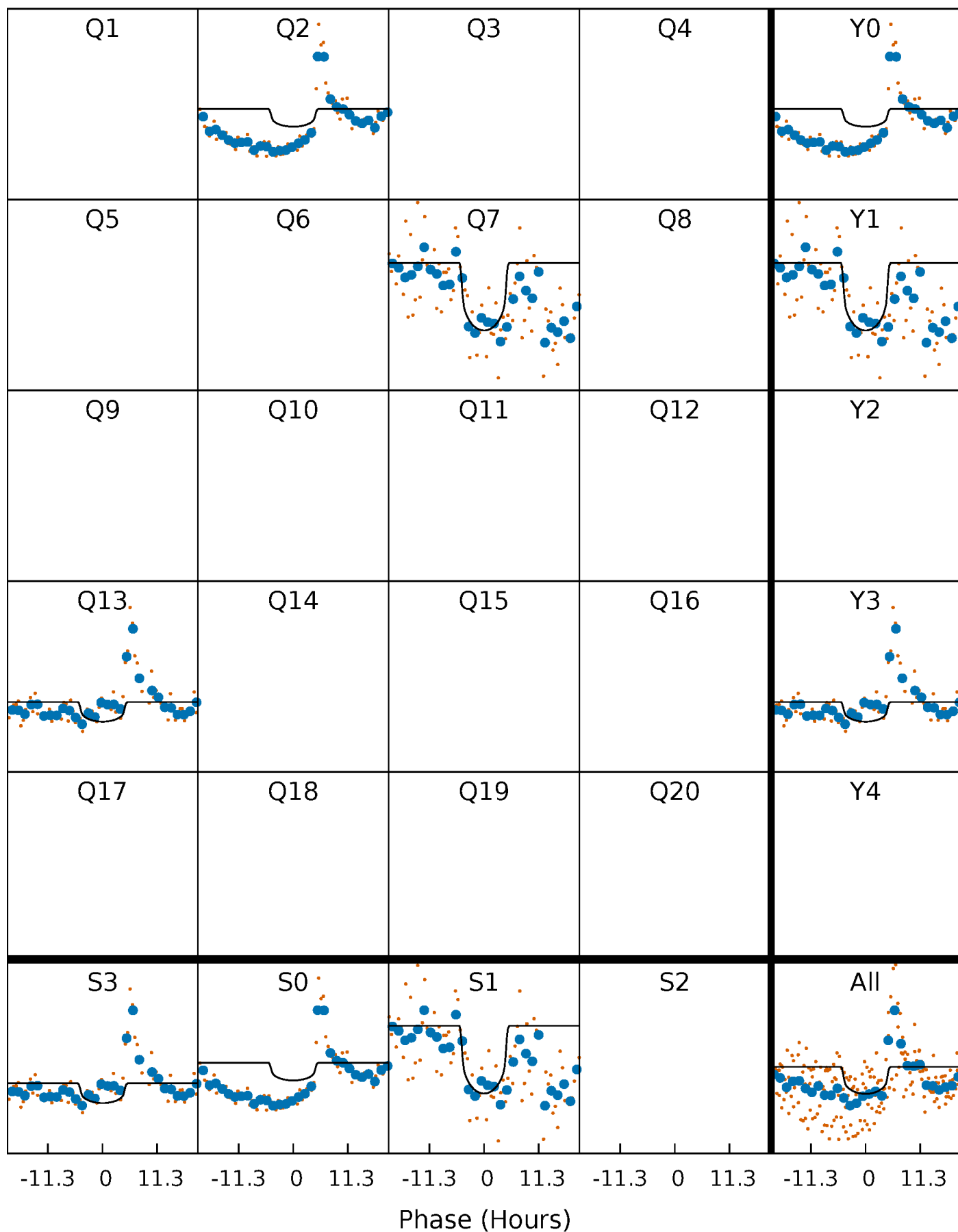
PDC Quarter-Phased Transit Curves

TCE 005722668-03 P=515.324714 Days $T_0=197.602612$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005722668-03 $P=515.324714$ Days $T_0=197.602612$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

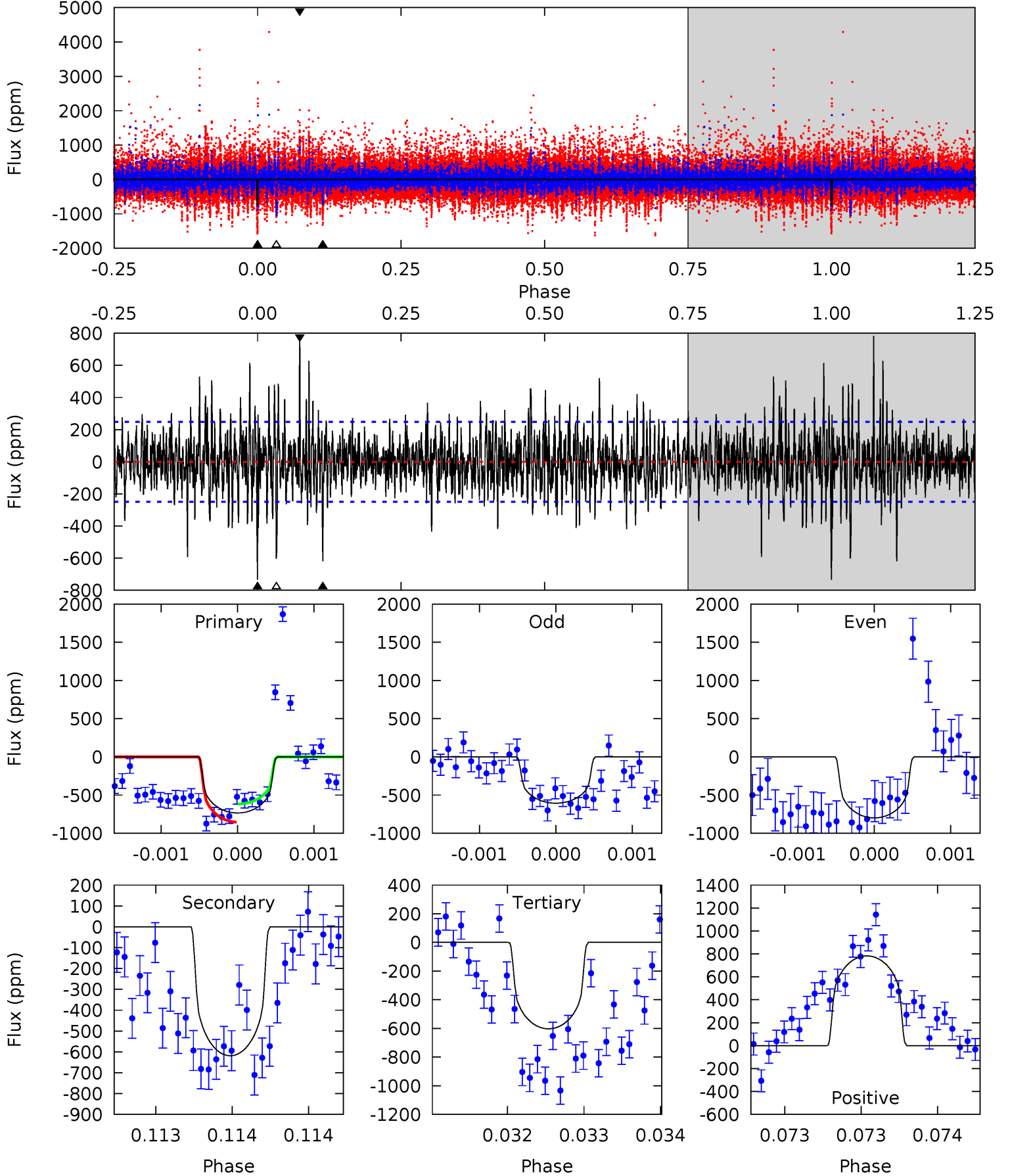
TCE 005722668-03 $P=515.327572$ Days $T_0=197.600174$ (BKJD)



DV Model-Shift Uniqueness Test

005722668-03, P = 515.324714 Days, E = 197.602612 Days

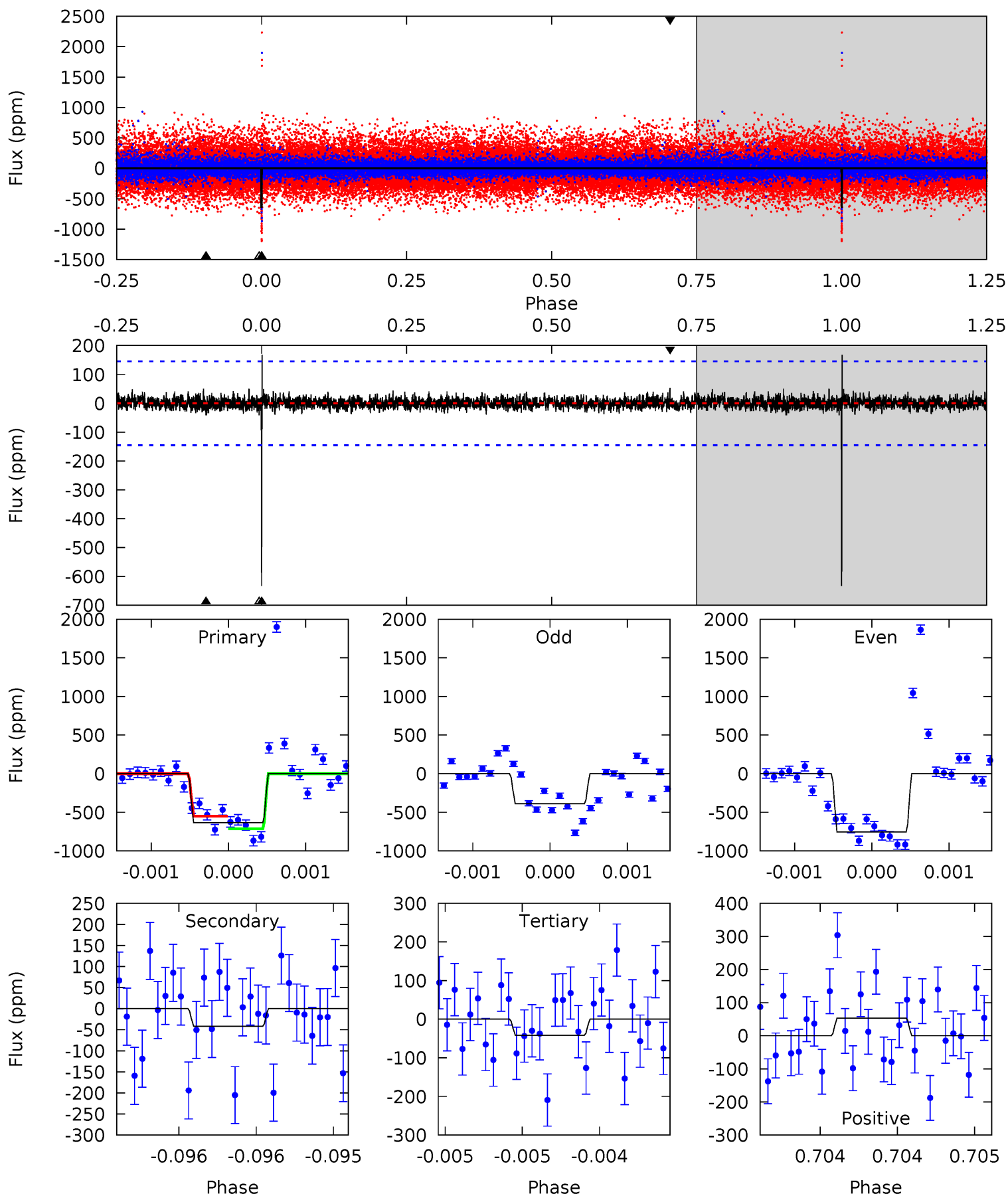
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.2	13.6	13.3	17.3	5.49	3.35	3.15	2.90	-1.06	0.35	-3.61	1.88	1.21	0.52	2.63



Alt Model-Shift Uniqueness Test

005722668-03, P = 515.327572 Days, E = 197.600174 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.0	1.58	1.57	2.02	5.50	3.37	0.44	22.4	21.9	0.01	-0.44	6.60	0.98	0.21	3.14



Stellar Parameters For KIC 005722668

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4234^{+115}_{-141}	$4.619^{+0.056}_{-0.016}$	$0.020^{+0.250}_{-0.300}$	$0.650^{+0.031}_{-0.063}$	$0.640^{+0.056}_{-0.056}$	$3.283^{+0.827}_{-0.282}$
	+3%/-3%	+1%/-0%	+1250%/-1500%	+5%/-10%	+9%/-9%	+25%/-9%
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 005722668-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-619 ± 45	$1.75^{+0.72}_{-0.71}$	200^{+6}_{-7}	4212^{+1018}_{-489}	$134102^{+238873}_{-67512}$
Alt.	-42 ± 26	$1.81^{+0.70}_{-0.75}$	200^{+7}_{-8}	2724^{+484}_{-333}	8034^{+17312}_{-5296}

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

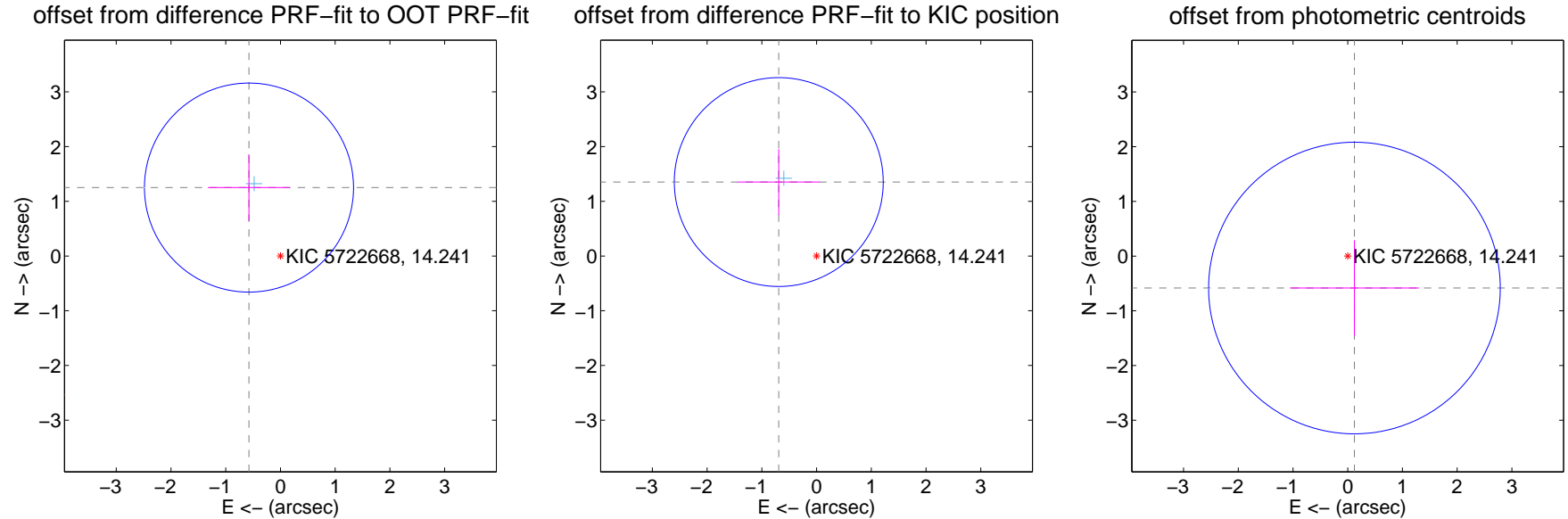
DV Centroid Data

Supplemental centroid analysis for 005722668-03. Kepler magnitude: 14.24. Transit SNR 5.83

There are 1 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.376 ± 0.637	2.16	0.575 ± 0.750	1.250 ± 0.610
PRF-fit source offset from KIC position	1.518 ± 0.636	2.39	0.691 ± 0.749	1.351 ± 0.603
photometric centroid source offset	0.60 ± 0.89	0.67	-0.12 ± 1.18	-0.58 ± 0.87



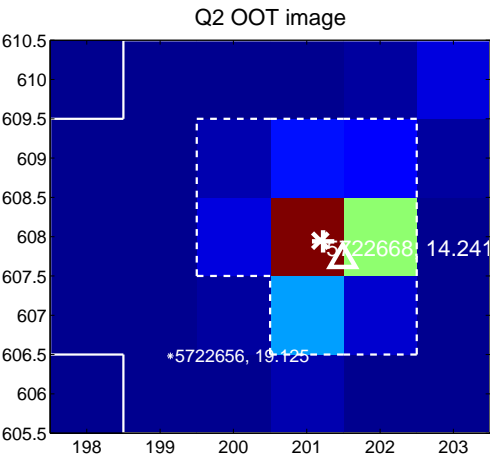
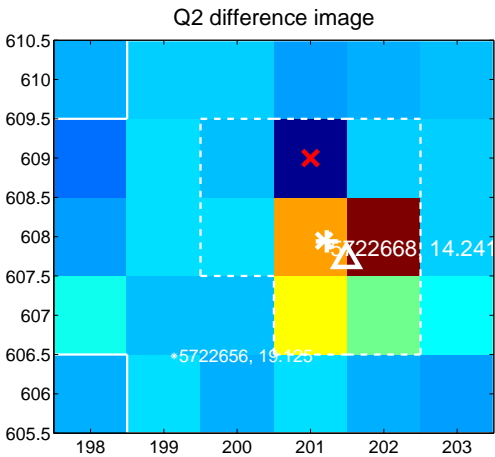
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

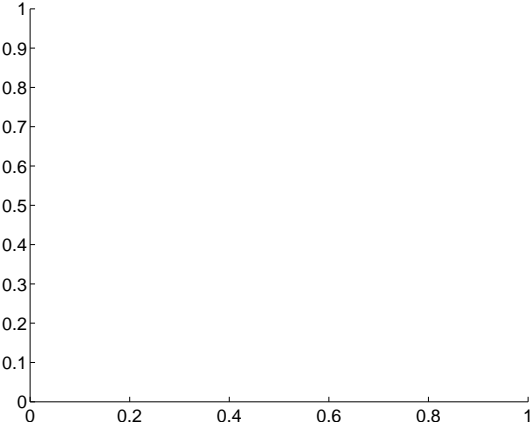
Q1 no difference image



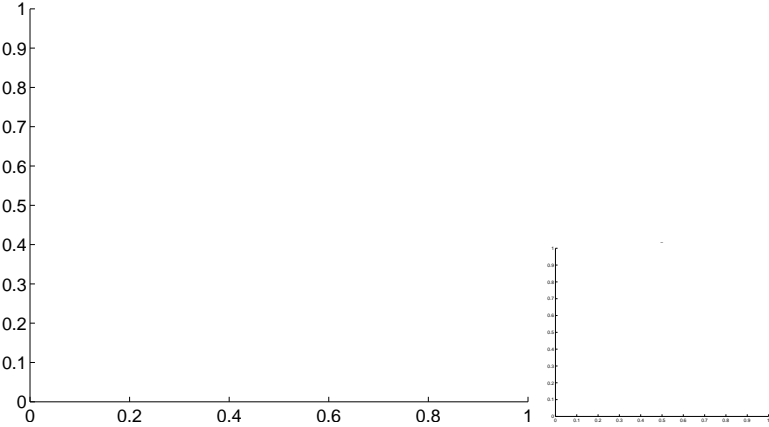
Q1 no OOT image



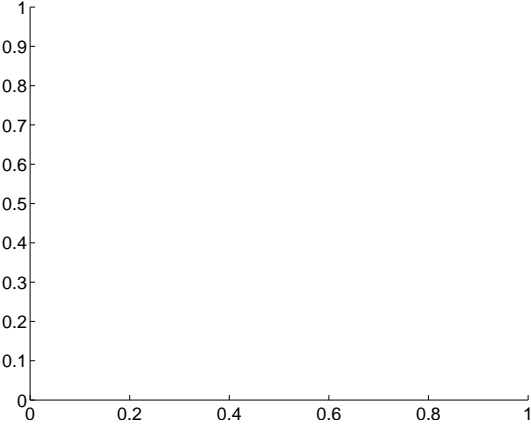
Q3 no difference image



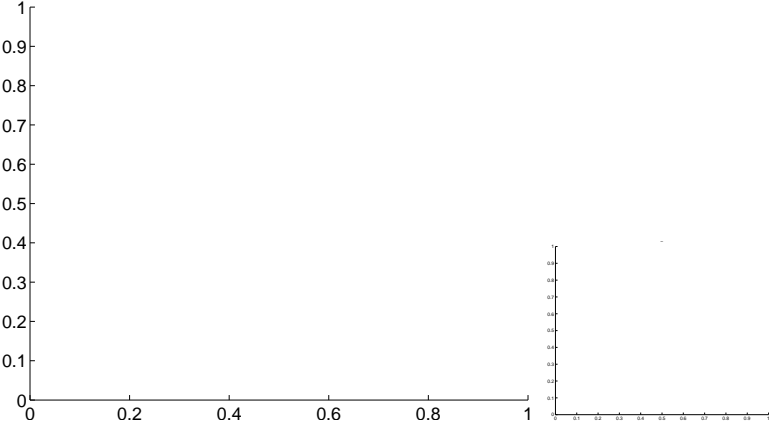
Q3 no OOT image



Q4 no difference image



Q4 no OOT image



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

Q5 no difference image



Q5 no OOT image



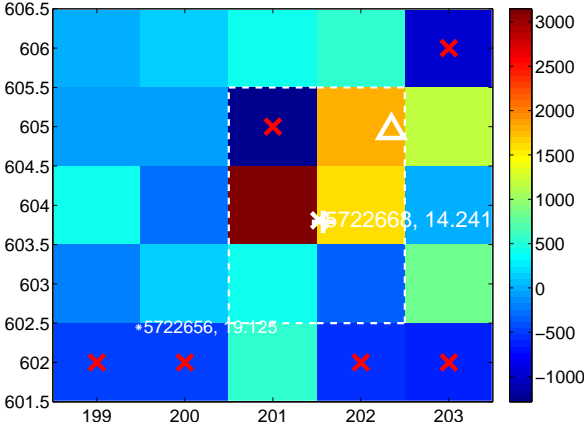
Q6 no difference image



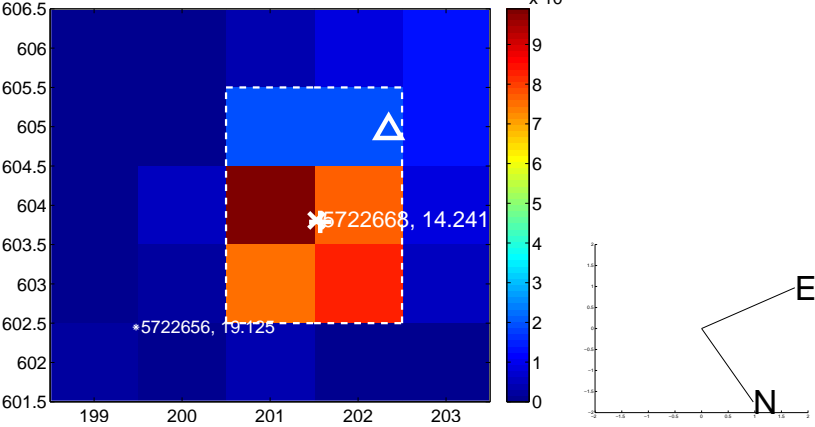
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



Q8 no difference image



Q8 no OOT image



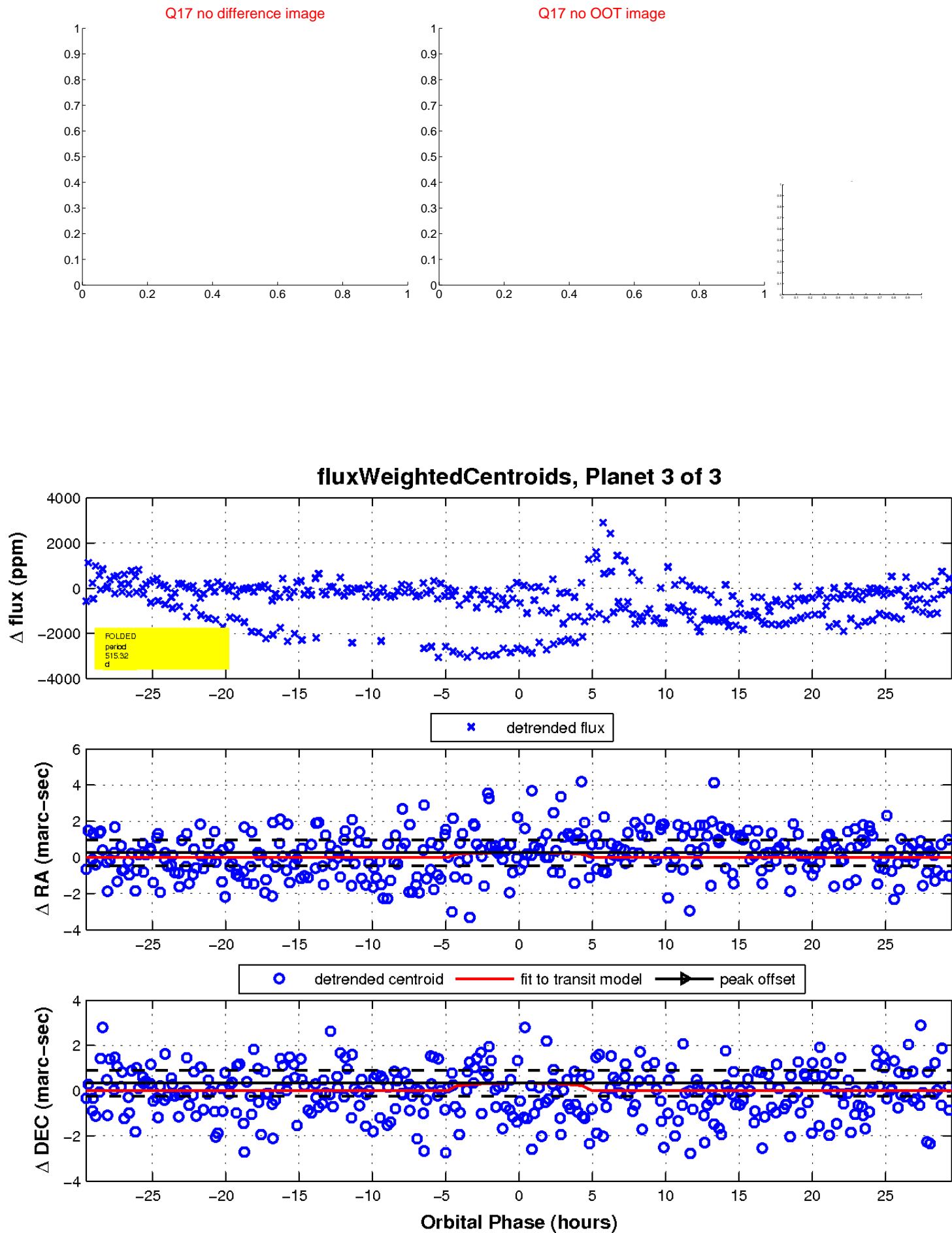
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

