

KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

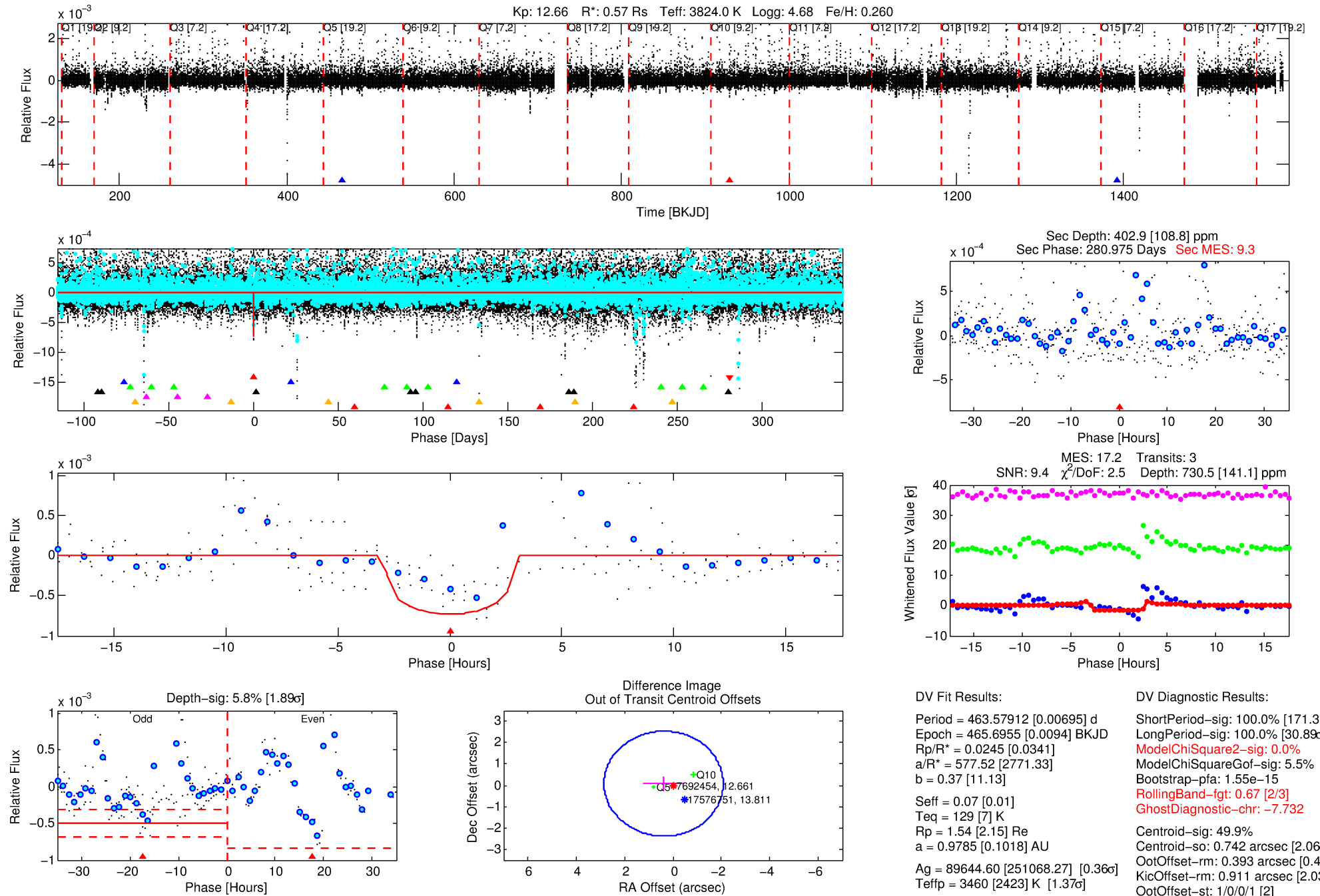
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-01

No Significant Match Found

DV One-Page Summary

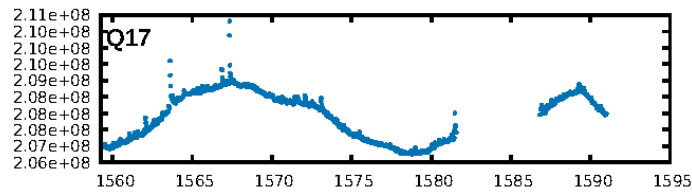
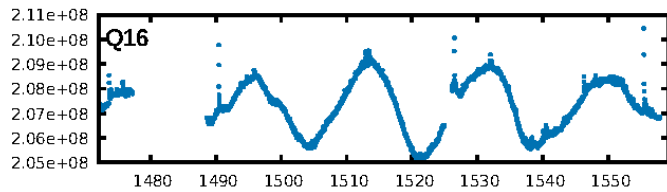
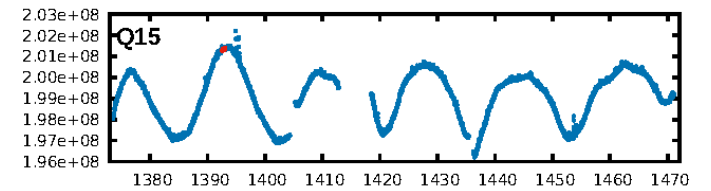
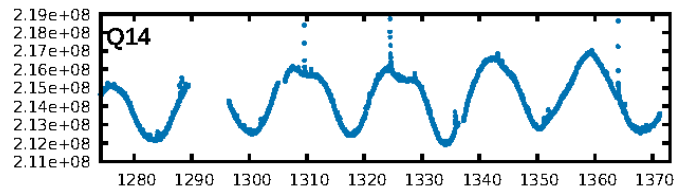
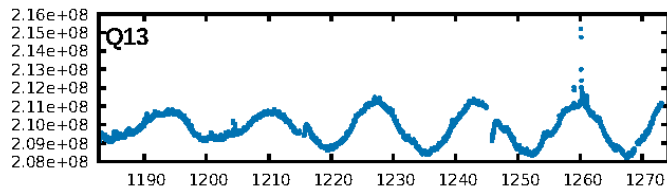
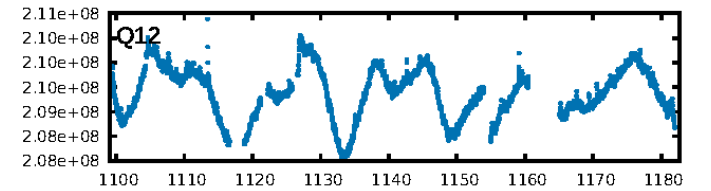
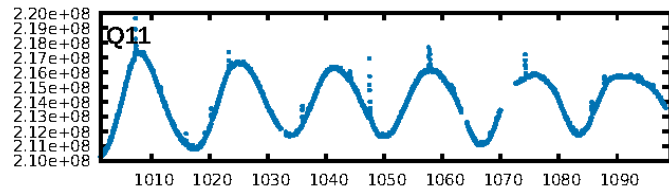
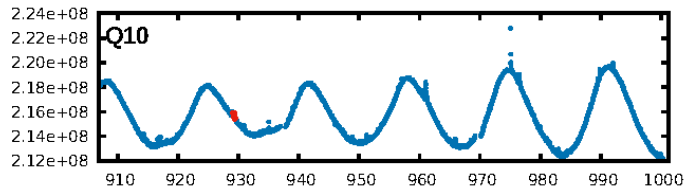
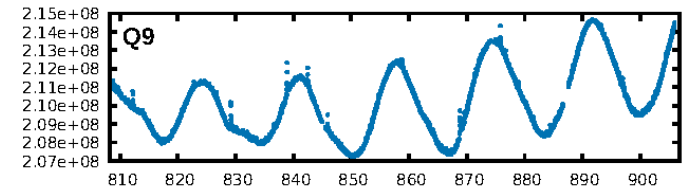
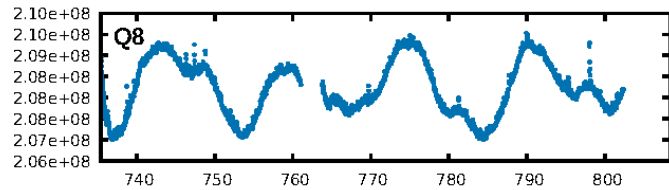
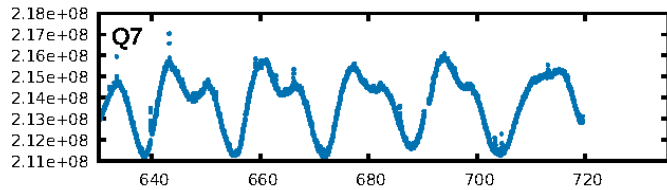
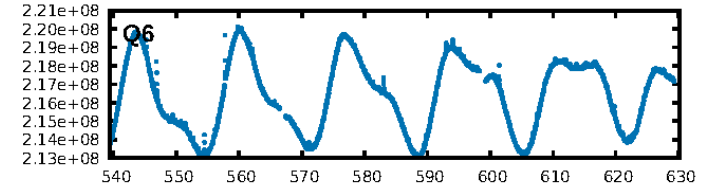
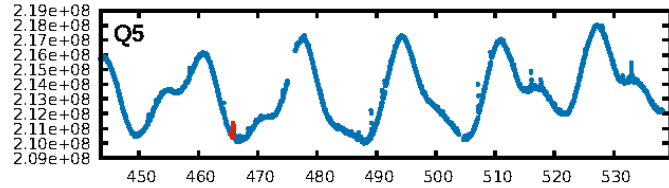
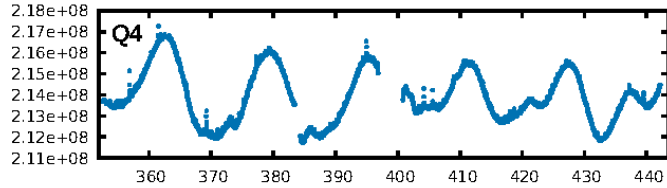
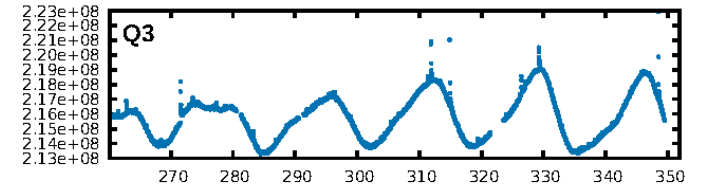
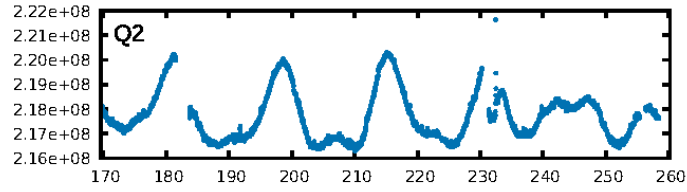
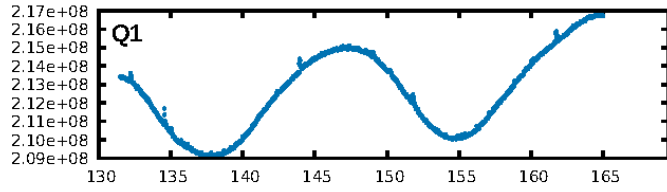
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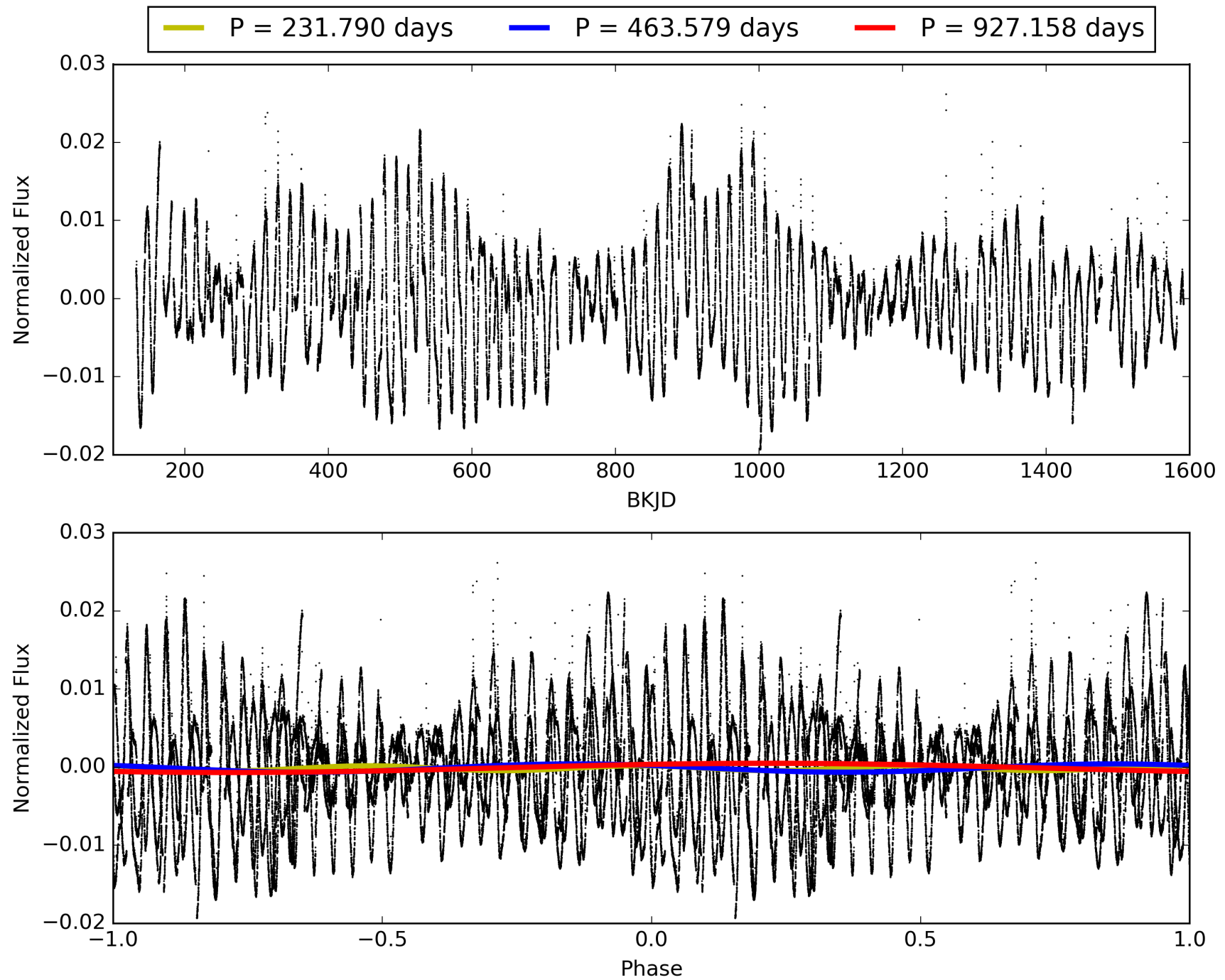
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007692454-01, PDC Light Curves

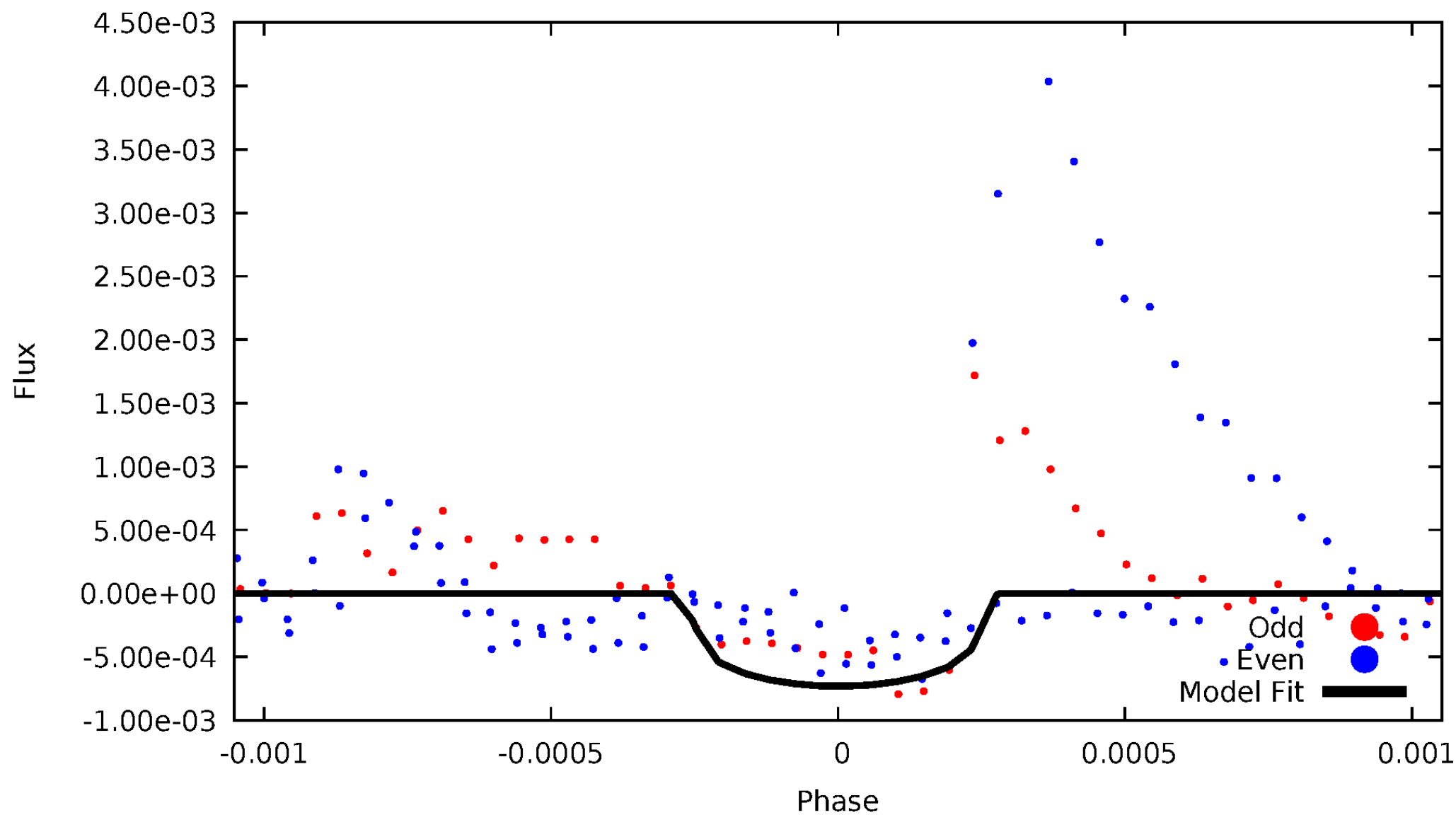


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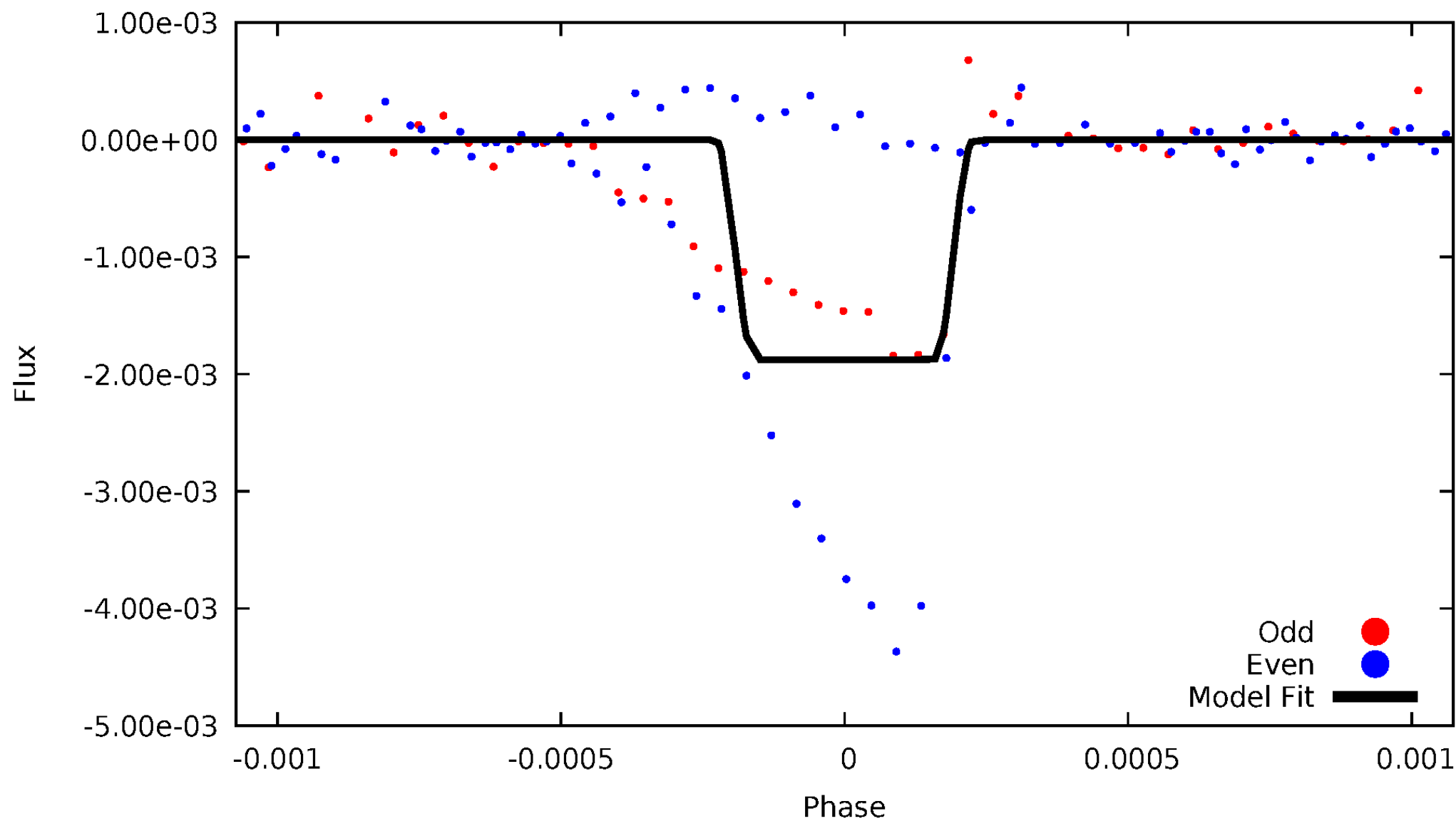
DV Odd/Even

TCE 007692454-01



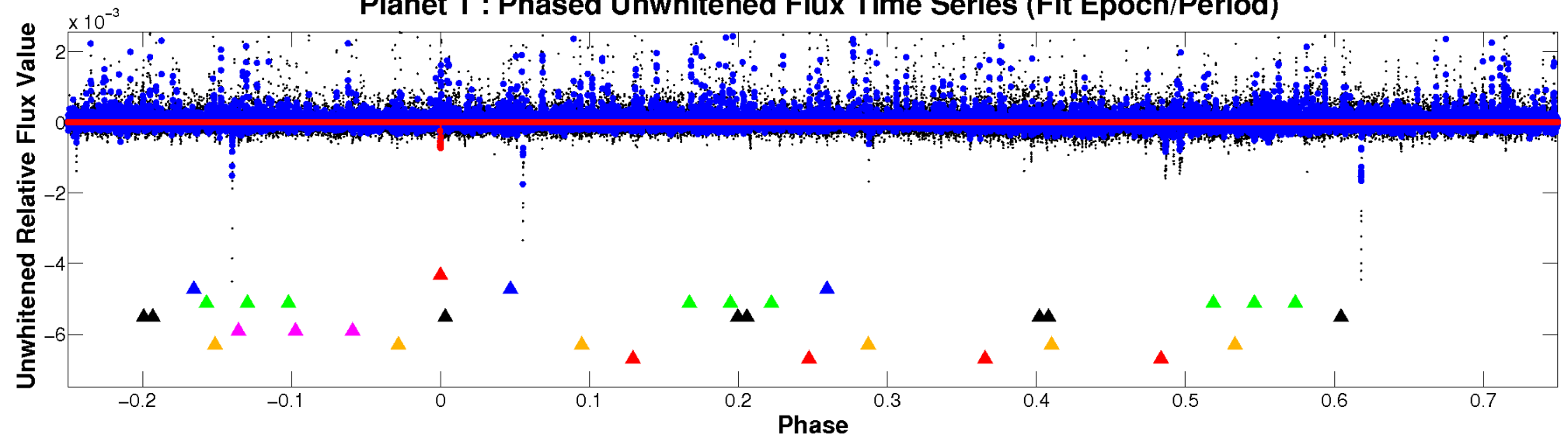
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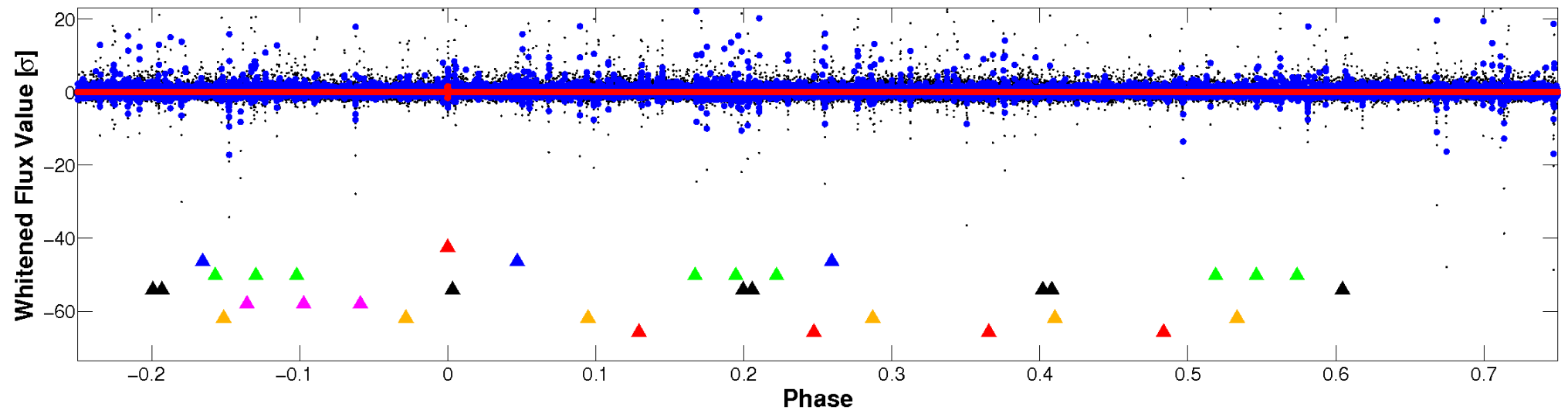


Non-Whitened Vs. Whitened Light Curve

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

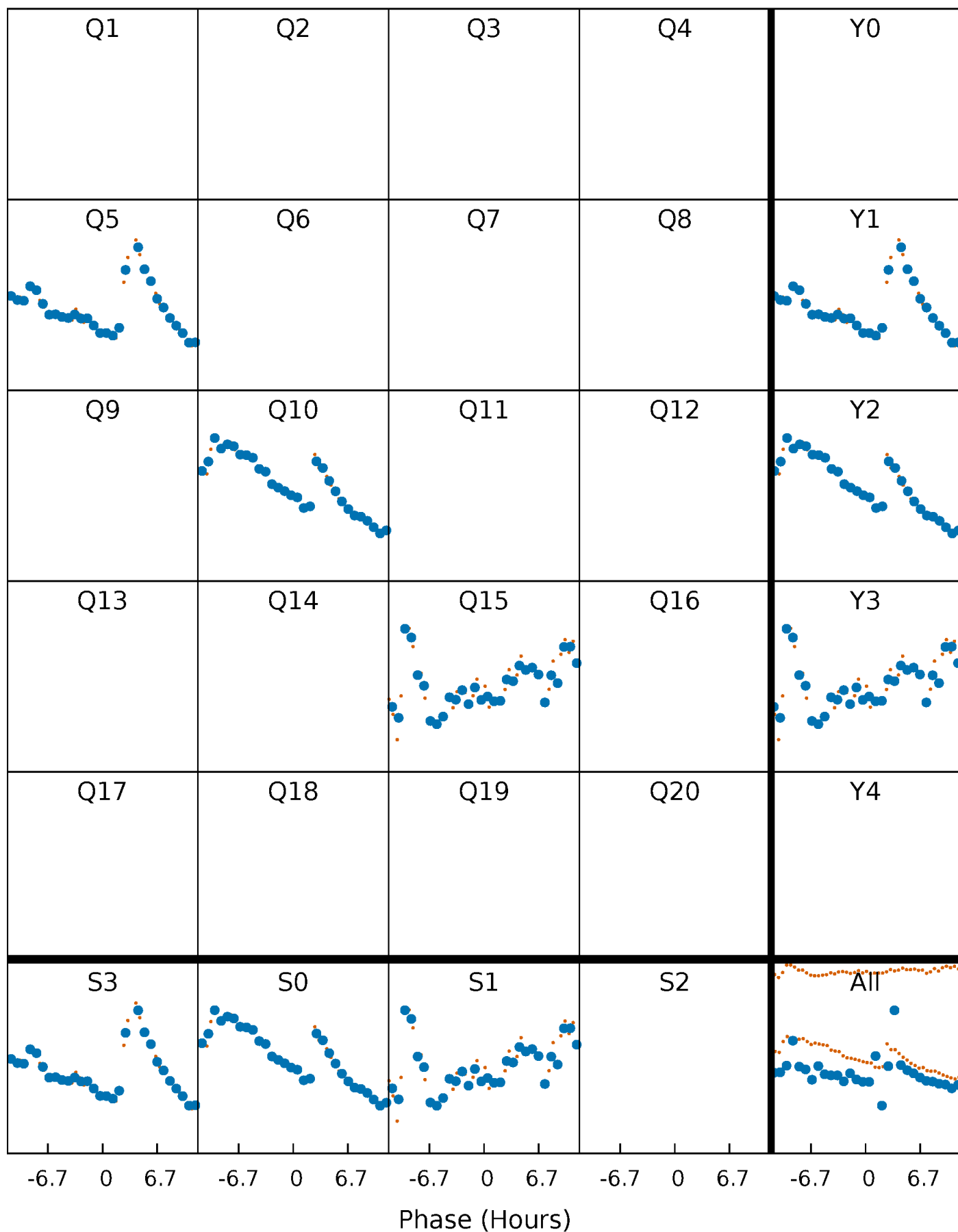


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



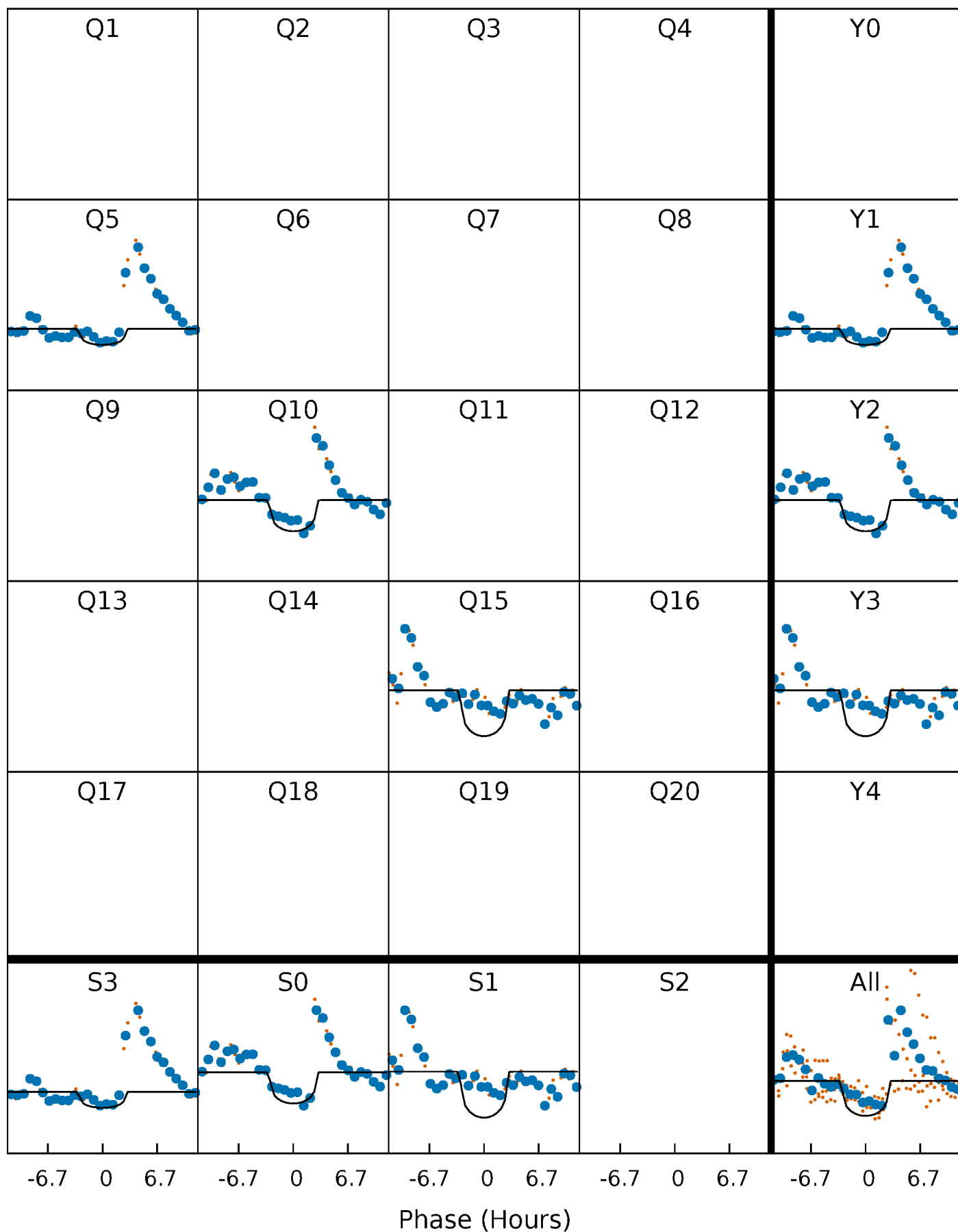
PDC Quarter-Phased Transit Curves

TCE 007692454-01 P=463.579119 Days $T_0=465.695498$ (BKJD)



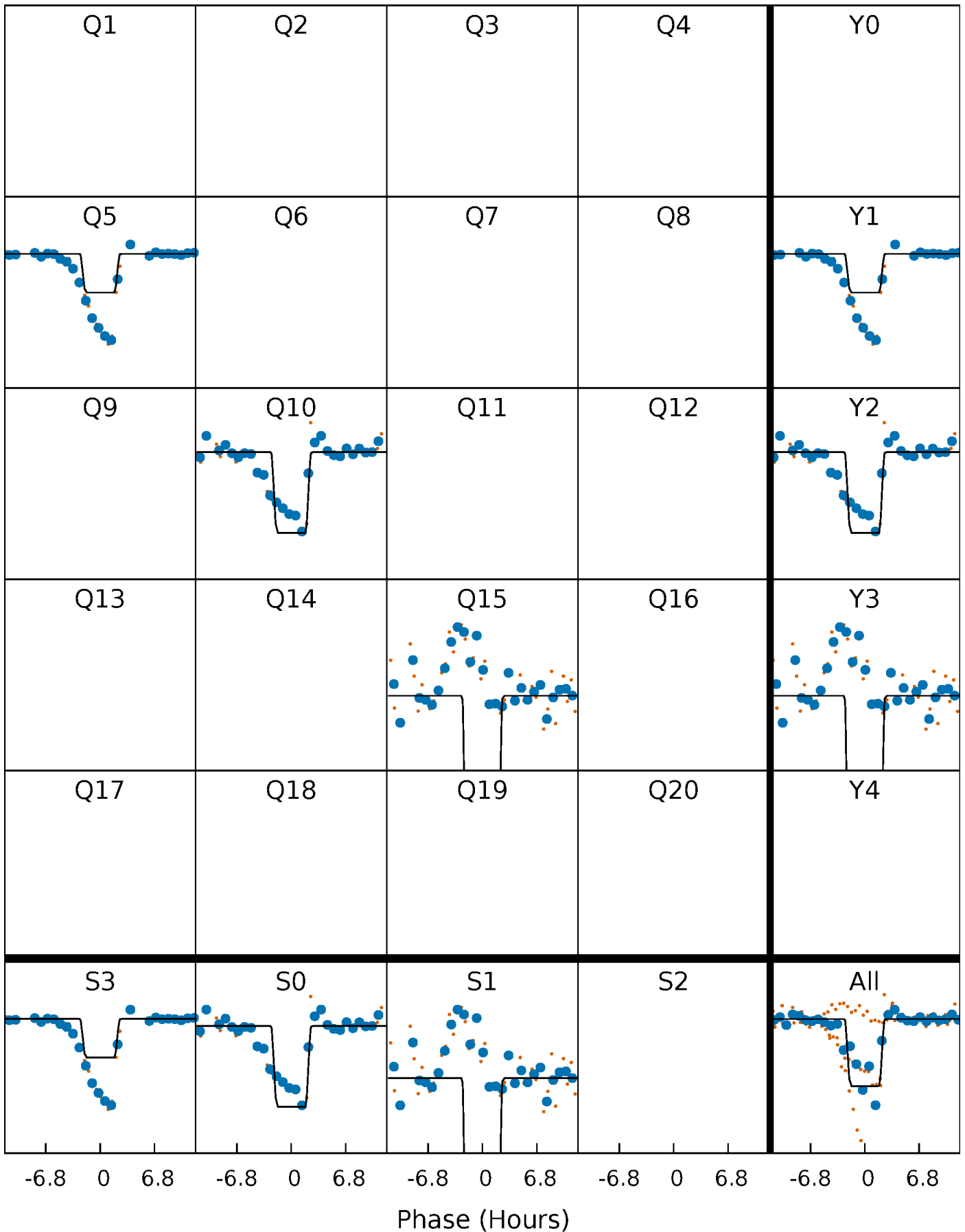
DV Quarter-Phased Transit Curves

TCE 007692454-01 P=463.579119 Days $T_0=465.695498$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

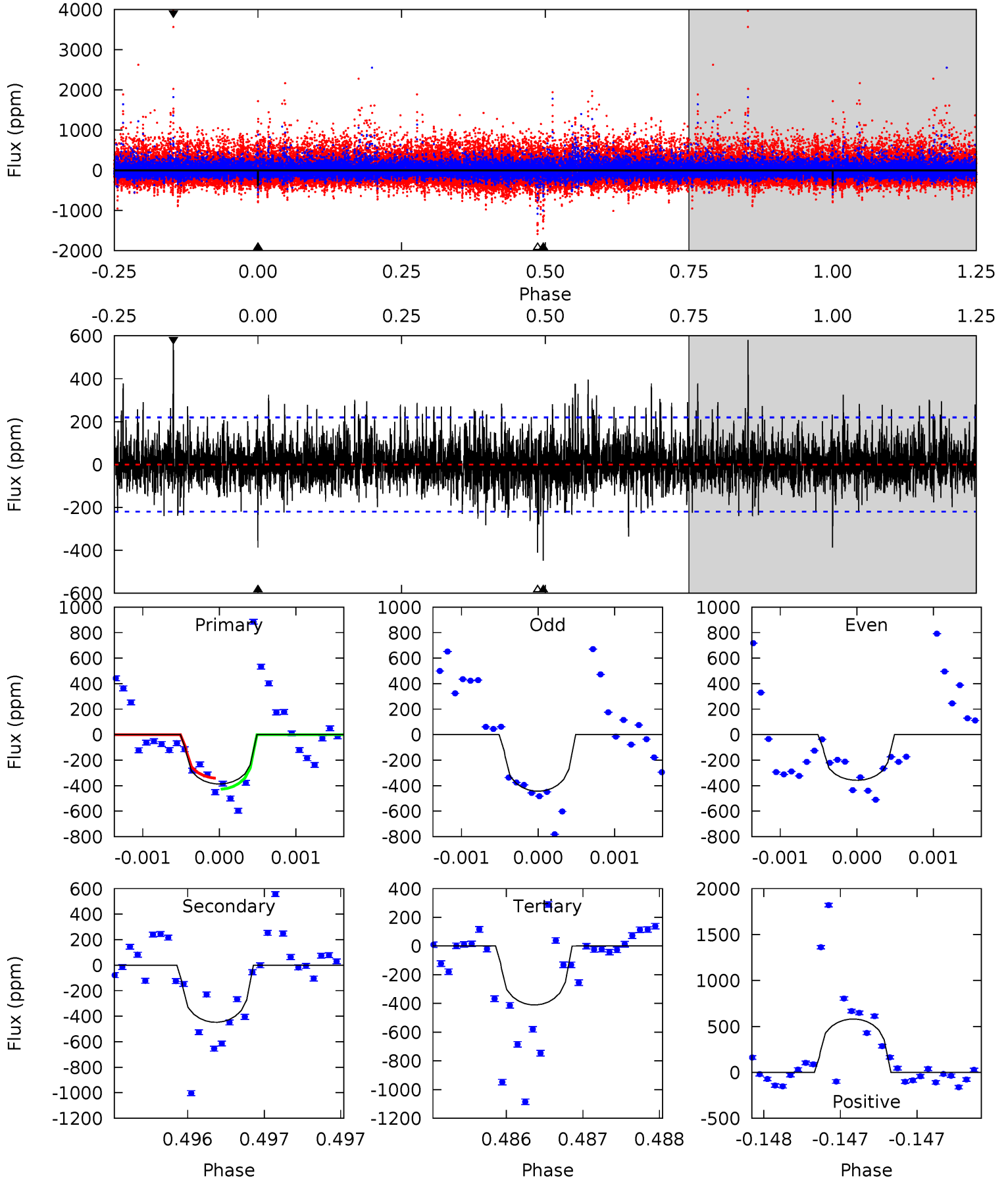
TCE 007692454-01 P=463.562553 Days $T_0=465.721071$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-01, P = 463.579119 Days, E = 2.116379 Days

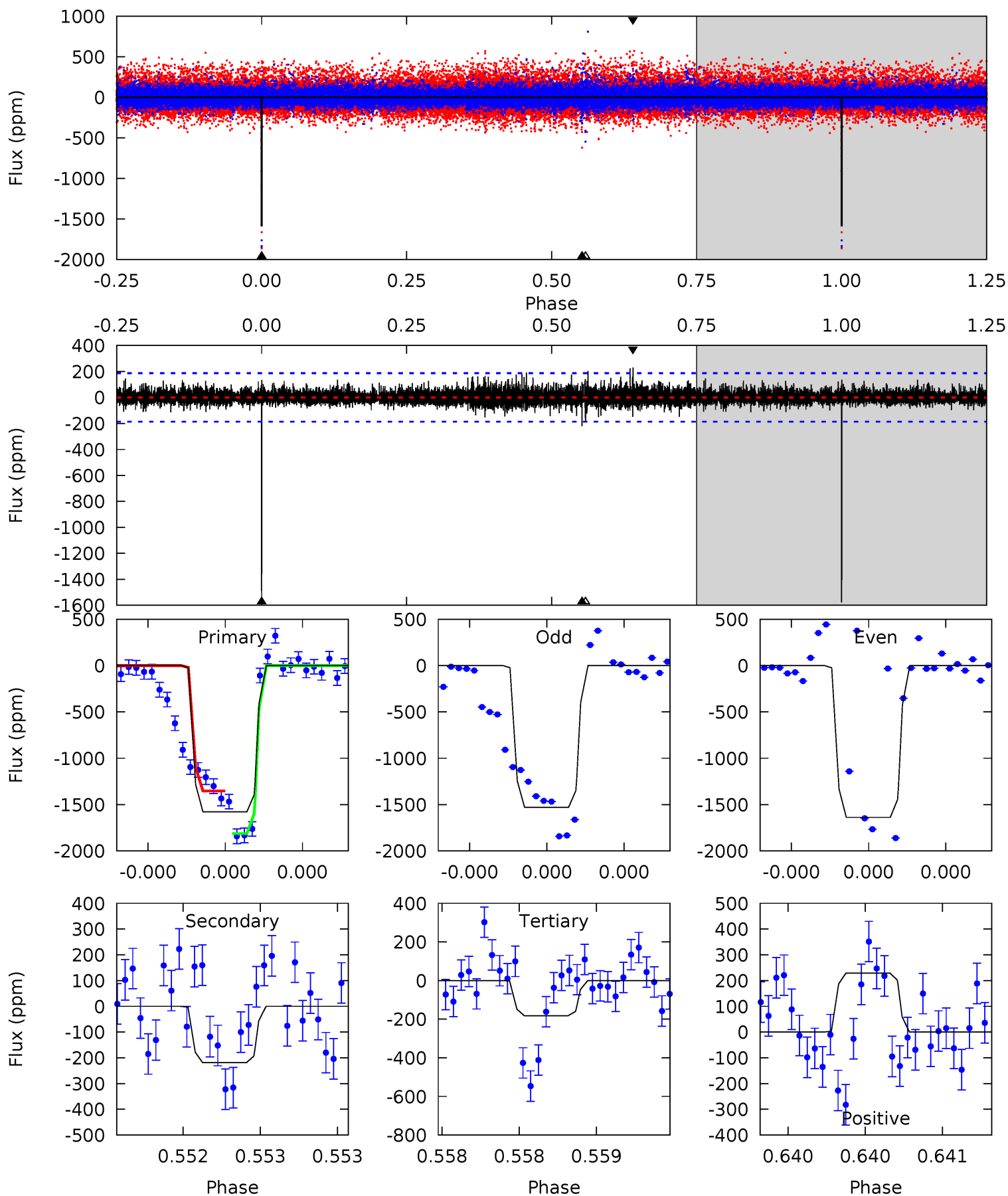
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.77	11.3	10.4	14.7	5.55	3.44	2.05	-0.59	-4.89	0.94	-3.35	0.75	1.05	0.56	1.09



Alt Model-Shift Uniqueness Test

007692454-01, P = 463.562553 Days, E = 2.158518 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
47.3	6.55	5.44	6.86	5.59	3.50	1.01	41.8	40.4	1.11	-0.31	2.26	1.04	0.13	6.87



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-447 ± 40	$2.14^{+1.88}_{-1.40}$	179^{+7}_{-8}	3244^{+1522}_{-528}	$51154^{+387800}_{-36242}$
Alt.	-219 ± 33	$3.06^{+1.89}_{-1.75}$	178^{+7}_{-8}	2672^{+724}_{-318}	12492^{+55670}_{-7795}

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 $A_{obs} \gg 1.0$

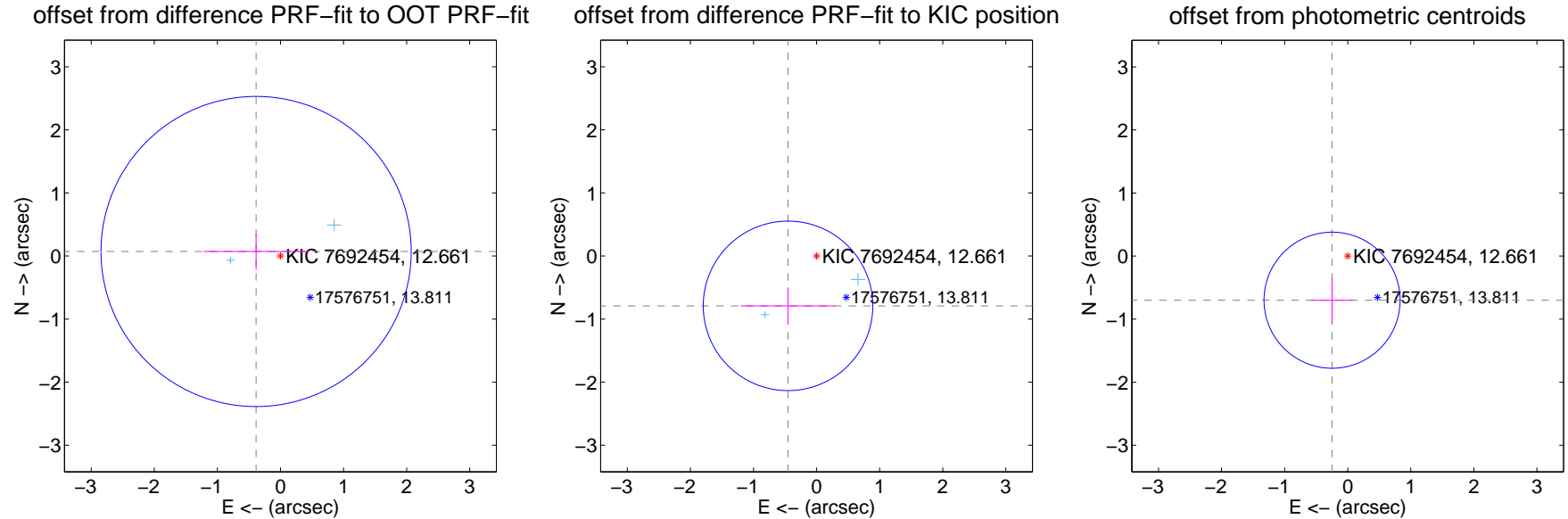
DV Centroid Data

Supplemental centroid analysis for 007692454-01. Kepler magnitude: 12.66. Transit SNR 9.40

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.88 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.393 ± 0.820	0.48	0.386 ± 0.832	0.072 ± 0.289
PRF-fit source offset from KIC position	0.911 ± 0.448	2.03	0.453 ± 0.746	-0.790 ± 0.289
photometric centroid source offset	0.74 ± 0.36	2.06	0.25 ± 0.33	-0.70 ± 0.36

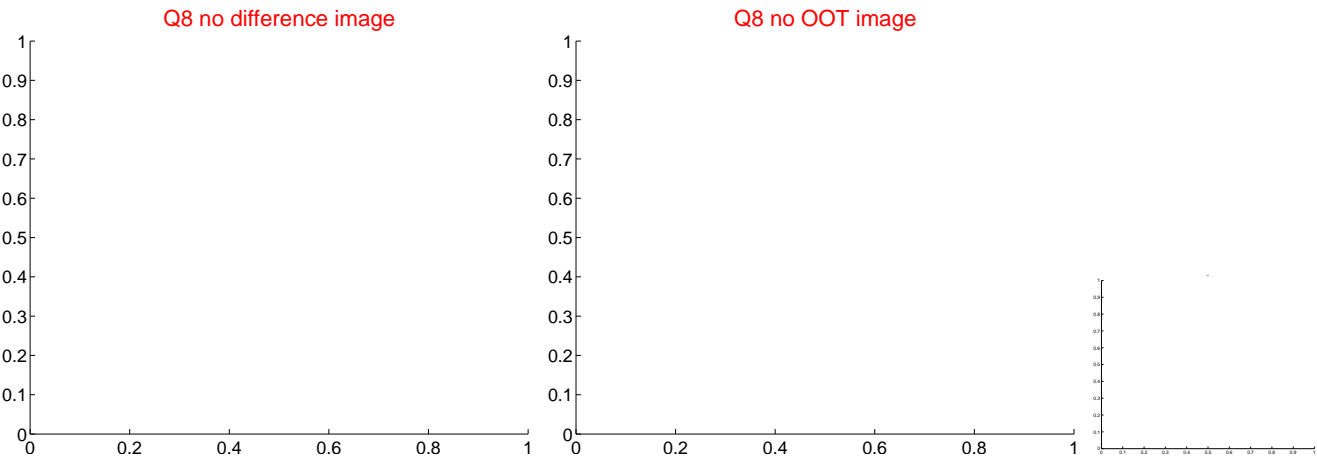
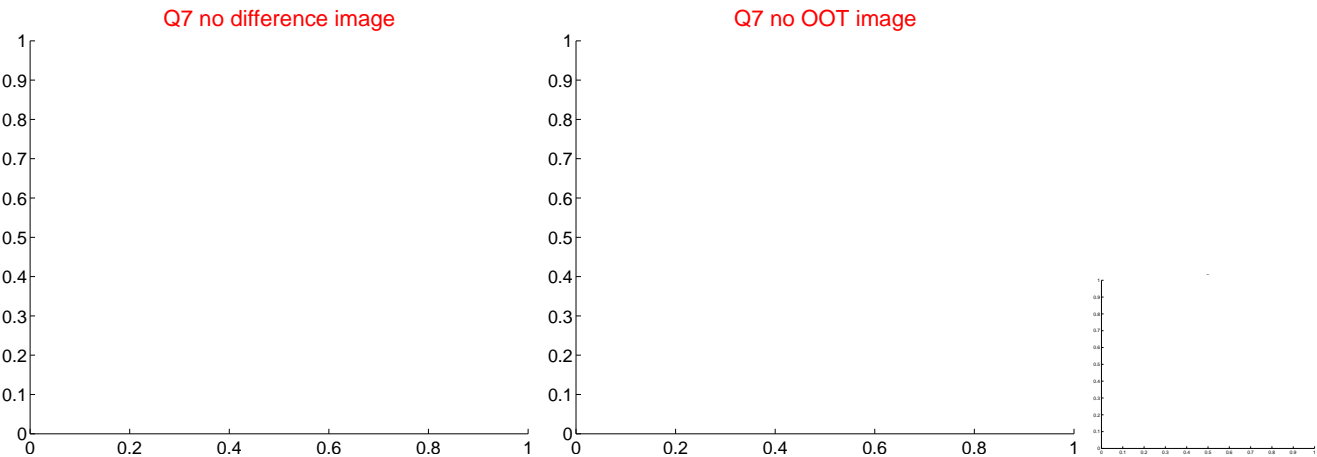
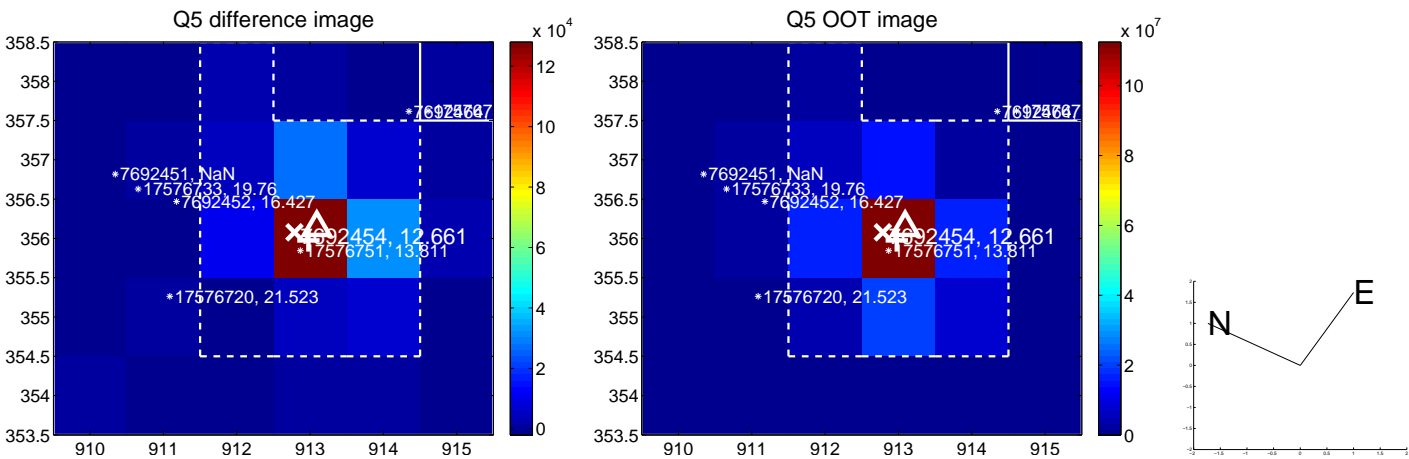


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

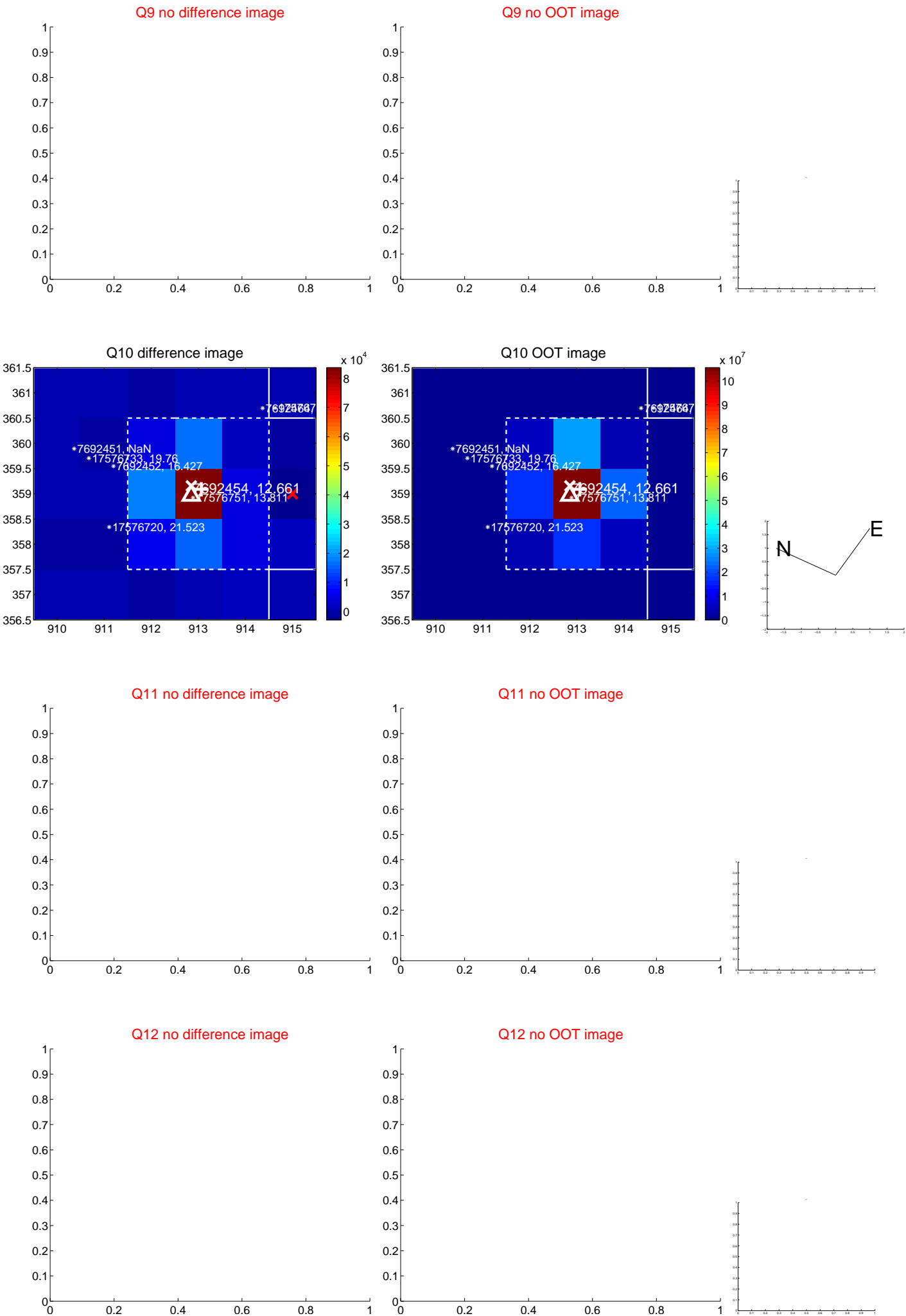
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



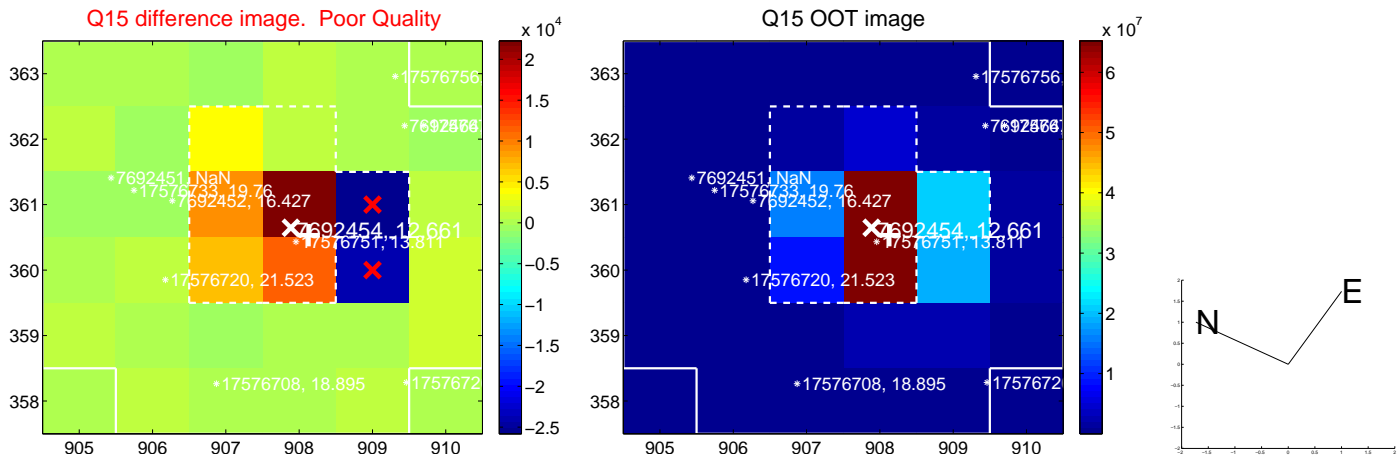
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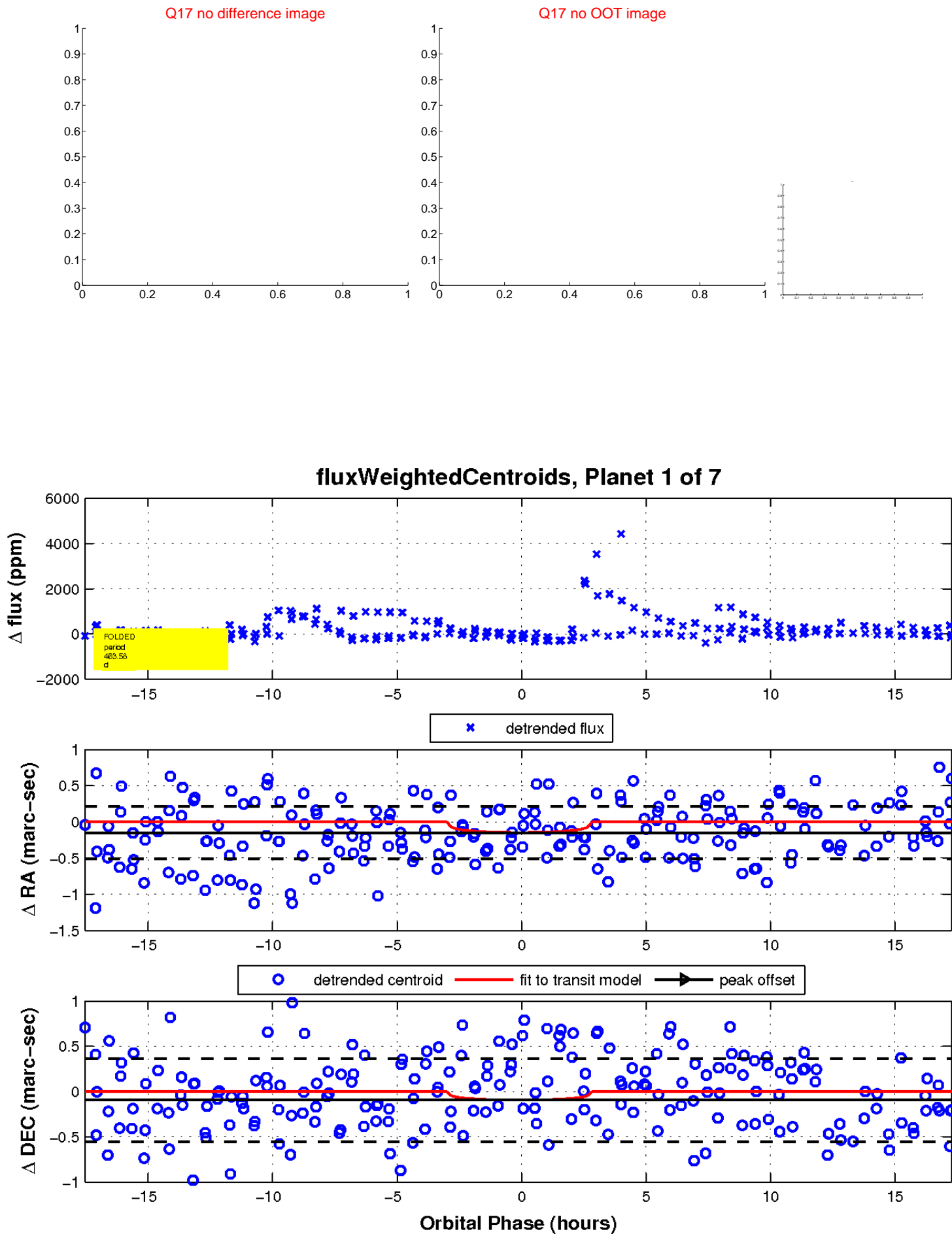
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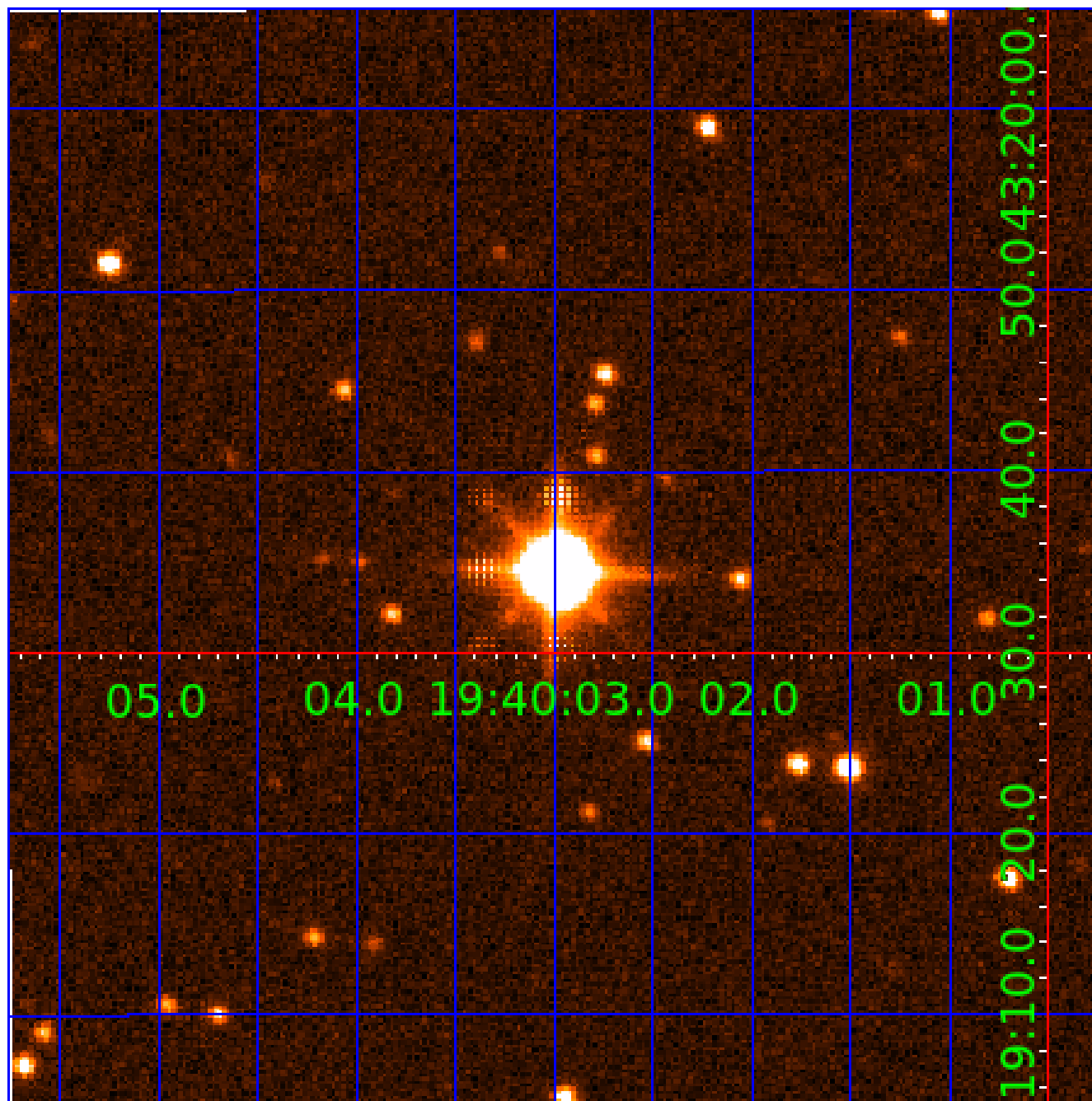


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UKIRT Image

Declination



KIC 007692454

Q1-17 DR25 TCE Parameters

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007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
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007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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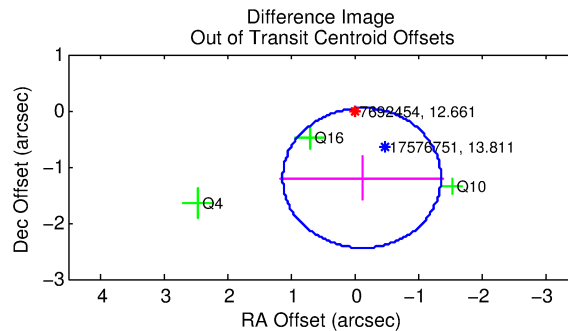
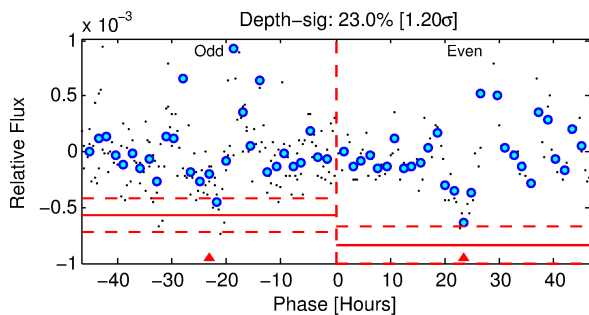
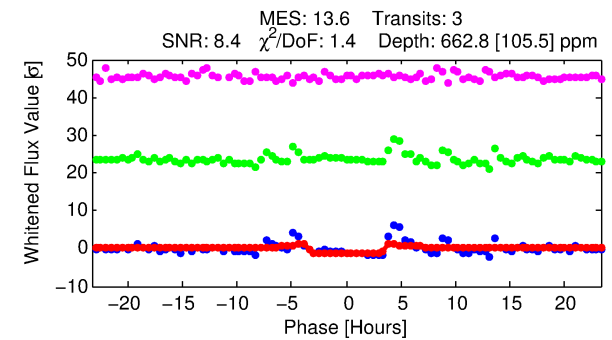
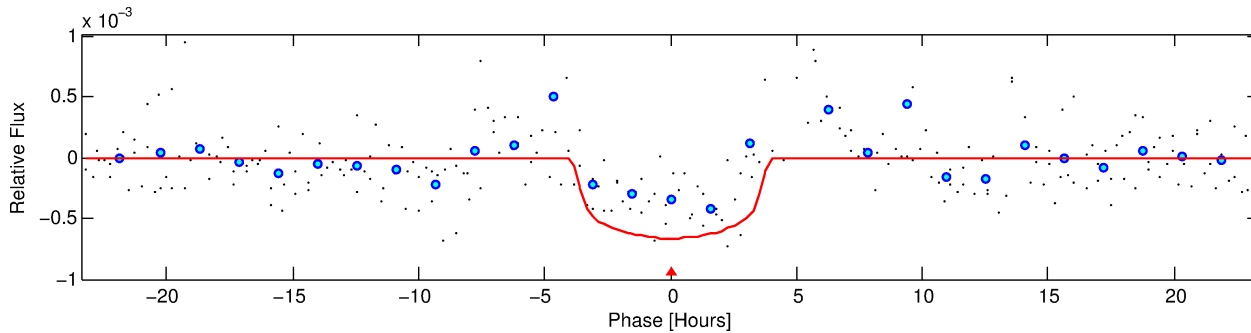
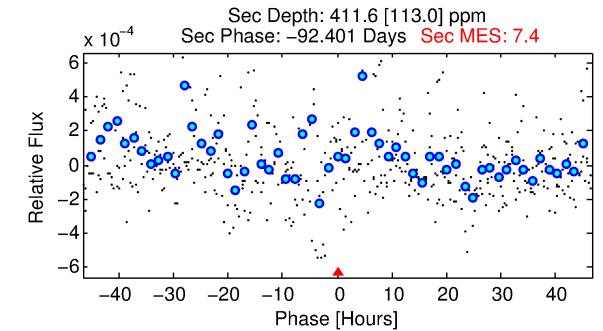
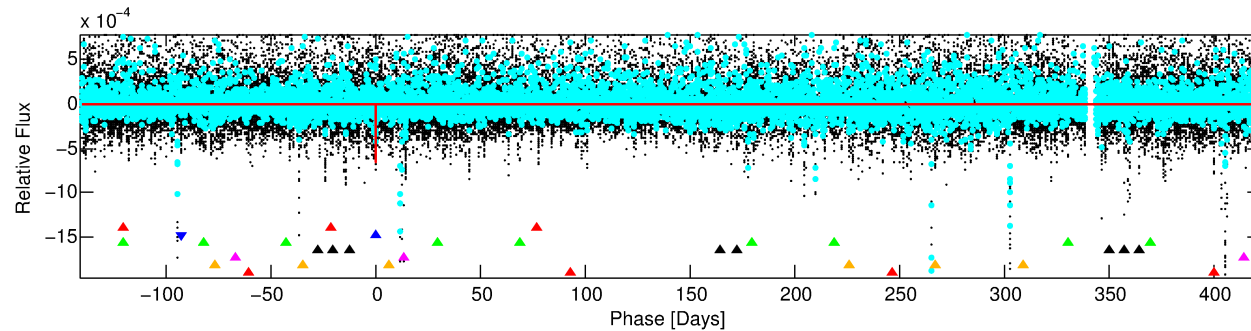
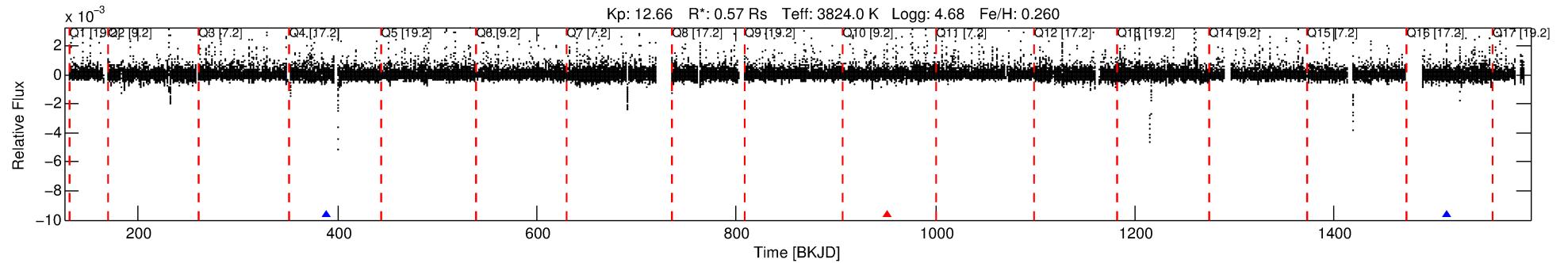
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-02

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 2 of 7 Period: 562.083 d



DV Fit Results:

Period = 562.08291 [0.00770] d
Epoch = 388.9684 [0.0098] BKJD
Rp/R* = 0.0259 [0.0092]
a/R* = 374.07 [461.02]
b = 0.77 [0.67]
Seff = 0.05 [0.01]
Teq = 121 [6] K
Rp = 1.63 [0.62] Re
a = 1.1126 [0.1157] AU
Ag = 105927.24 [82014.09] [1.29σ]
Teffp = 3383 [657] K [4.97σ]

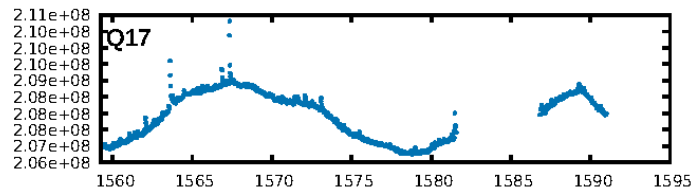
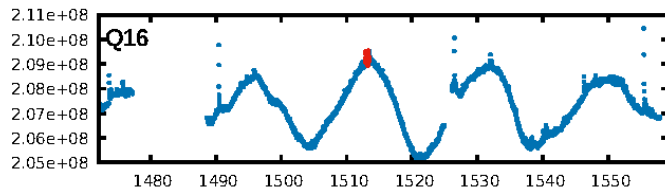
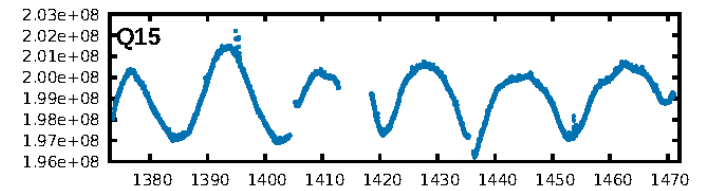
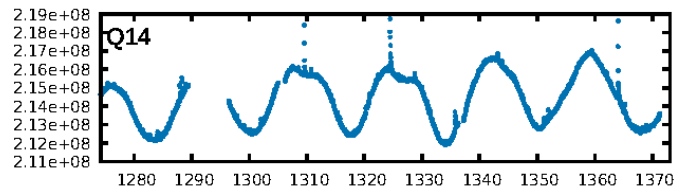
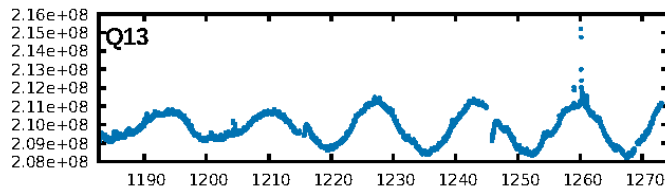
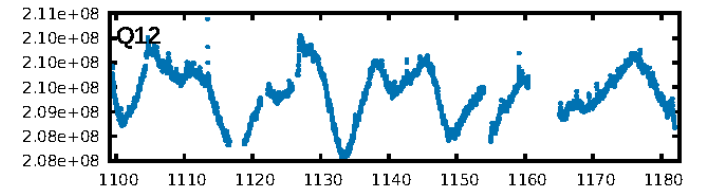
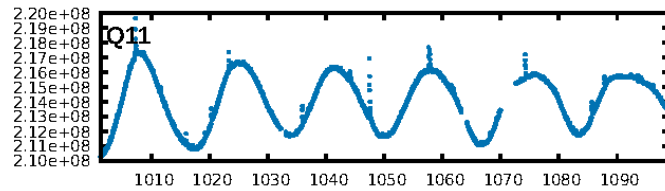
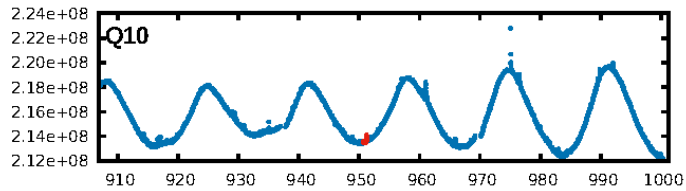
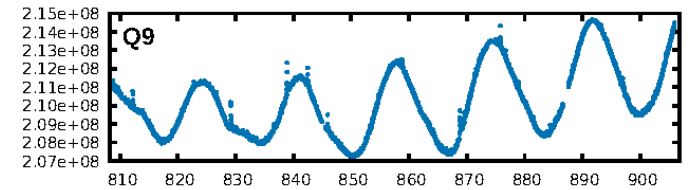
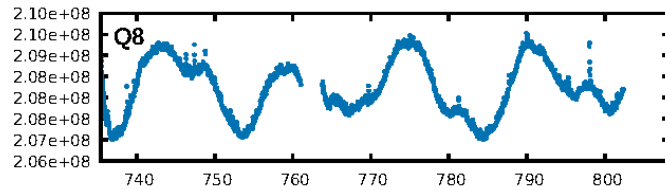
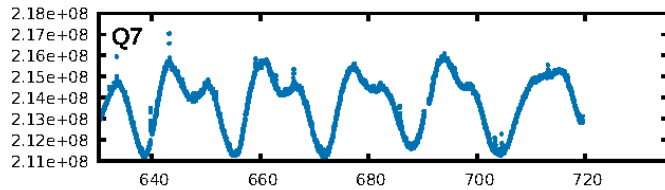
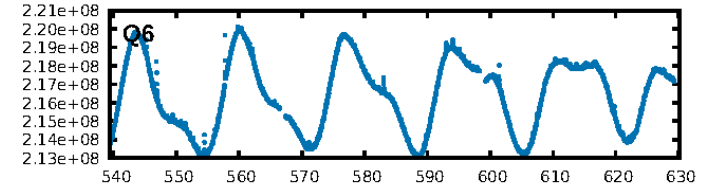
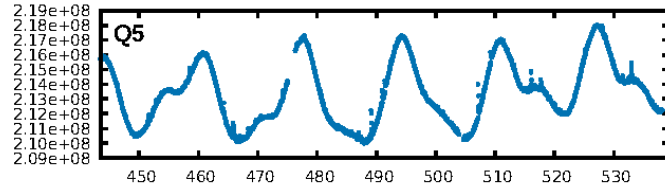
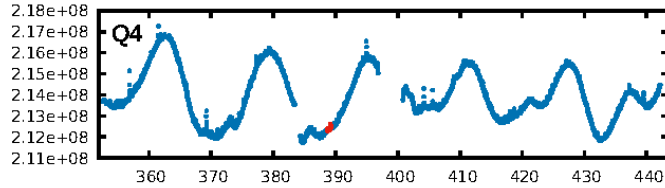
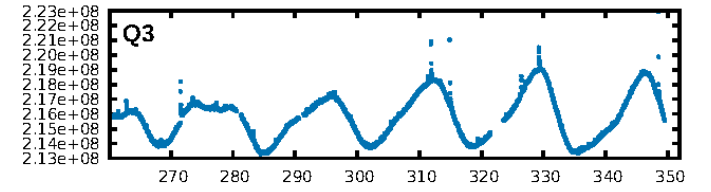
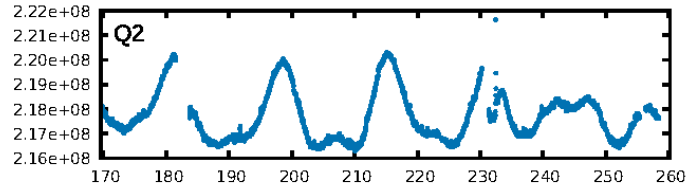
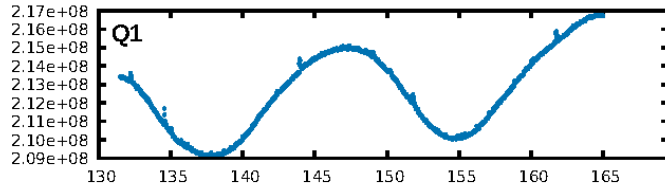
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [131.52σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.8%
ModelChiSquareGof-sig: 85.8%
Bootstrap-pfa: 1.33e-10
RollingBand-fgt: 0.67 [2/3]
GhostDiagnostic-chr: -4.499
Centroid-sig: 2.8%
Centroid-so: 1.504 arcsec [3.02σ]
OotOffset-rm: 1.208 arcsec [2.91σ]
OotOffset-st: 1/0/2/0 [3]
KicOffset-rm: 2.158 arcsec [6.71σ]
KicOffset-st: 1/0/2/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

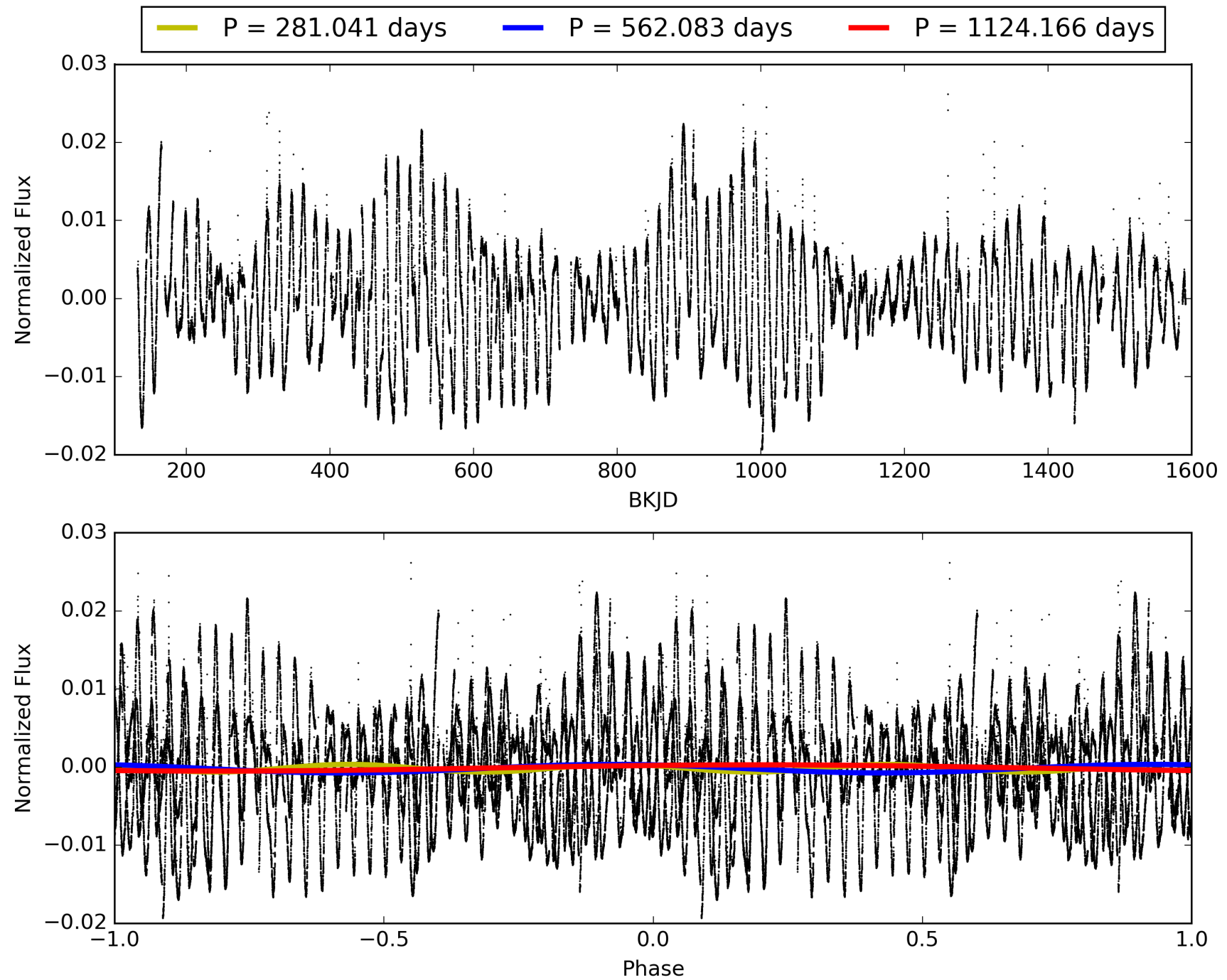
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:58:00 Z

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

TCE 007692454-02, PDC Light Curves

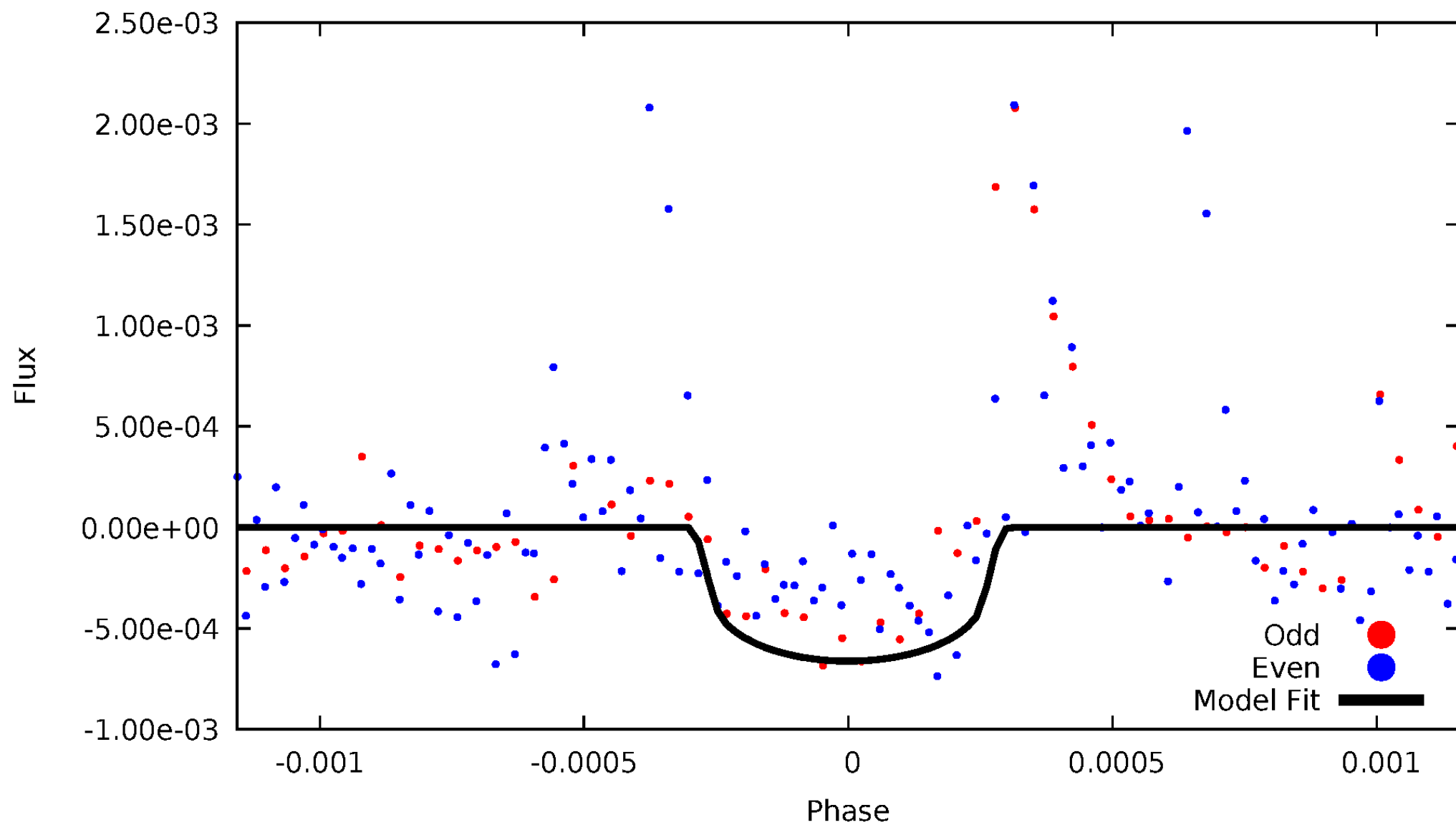


TCE 007692454-02



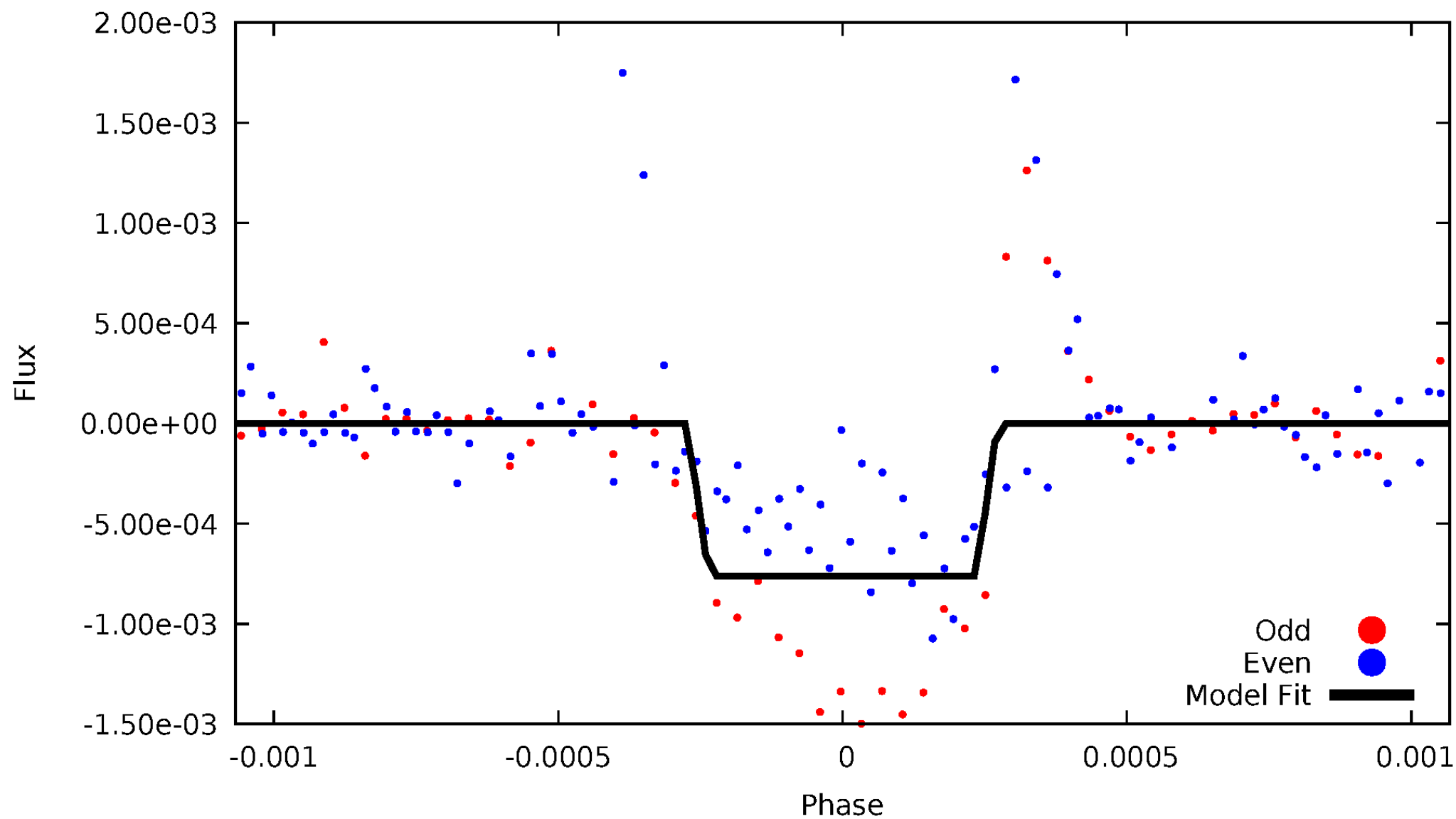
DV Odd/Even

TCE 007692454-02



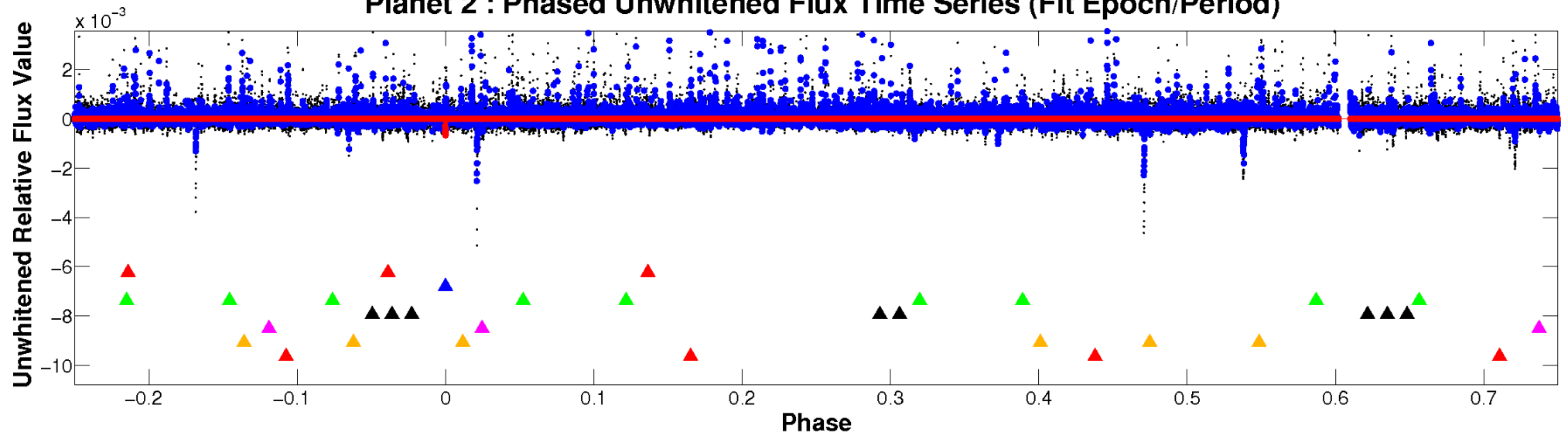
ALT Odd/Even

TCE 007692454-02

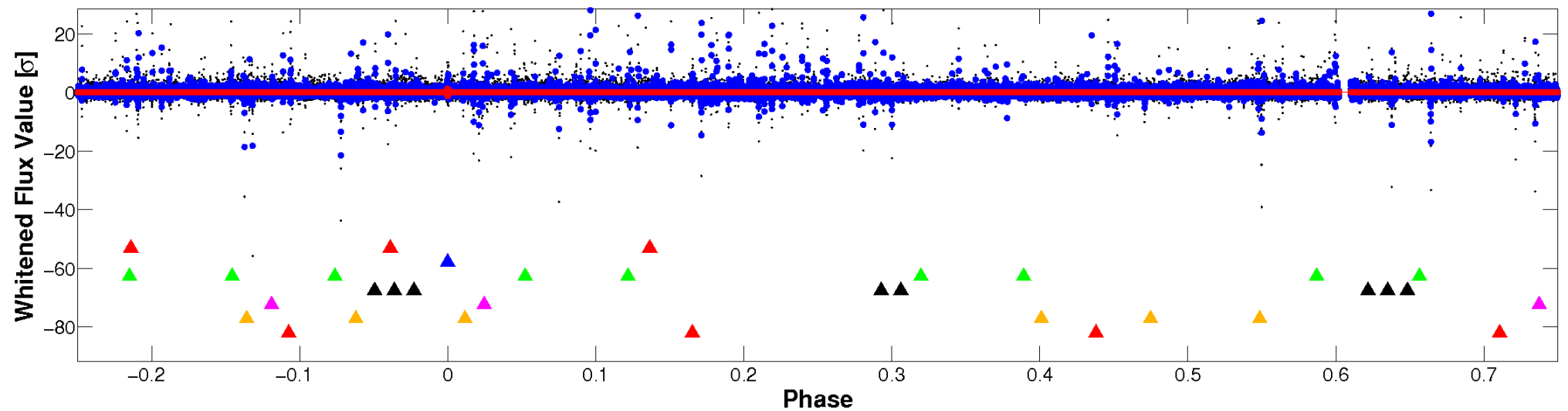


Non-Whitened Vs. Whitened Light Curve

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

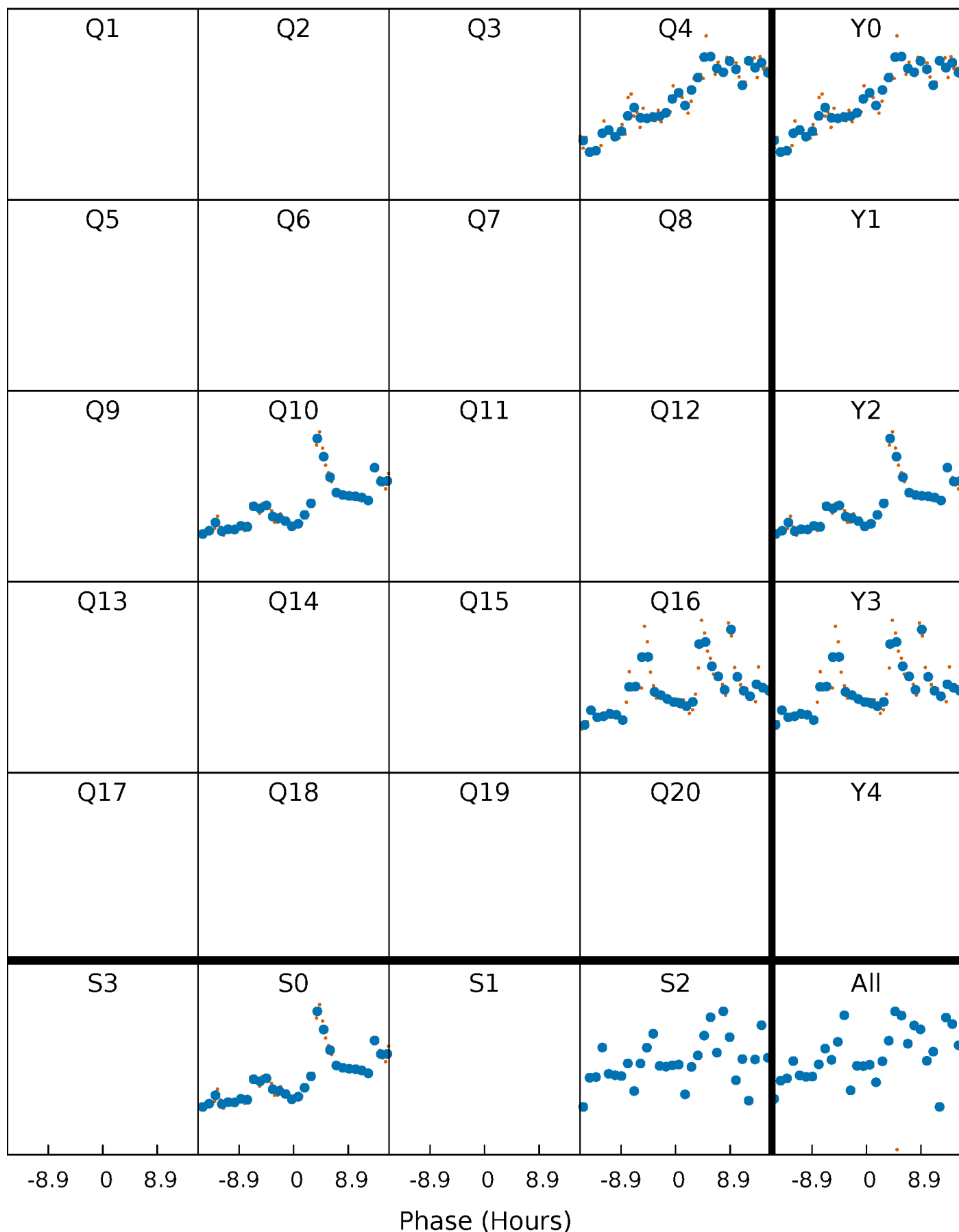


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



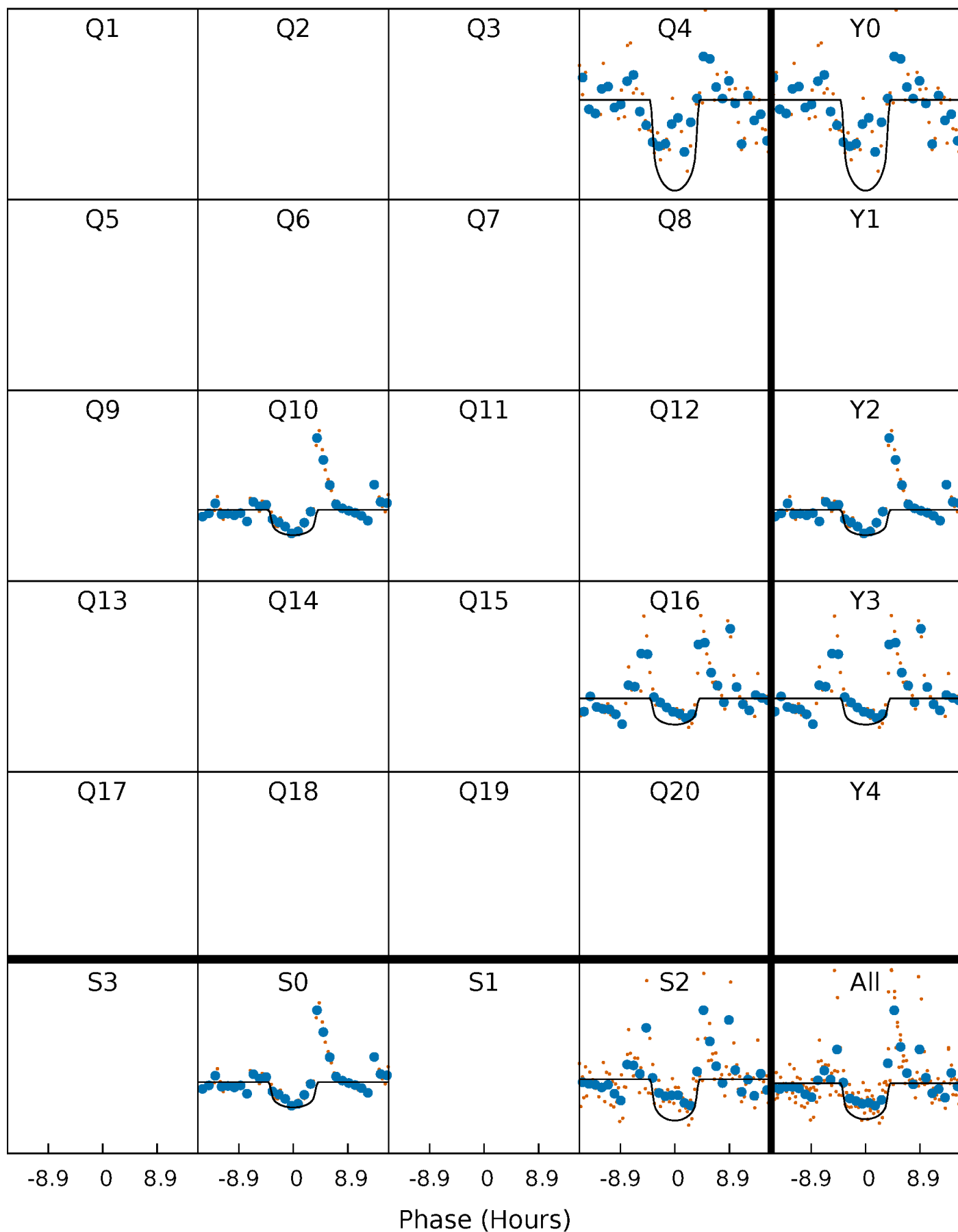
PDC Quarter-Phased Transit Curves

TCE 007692454-02 P=562.082906 Days $T_0=388.968425$ (BKJD)



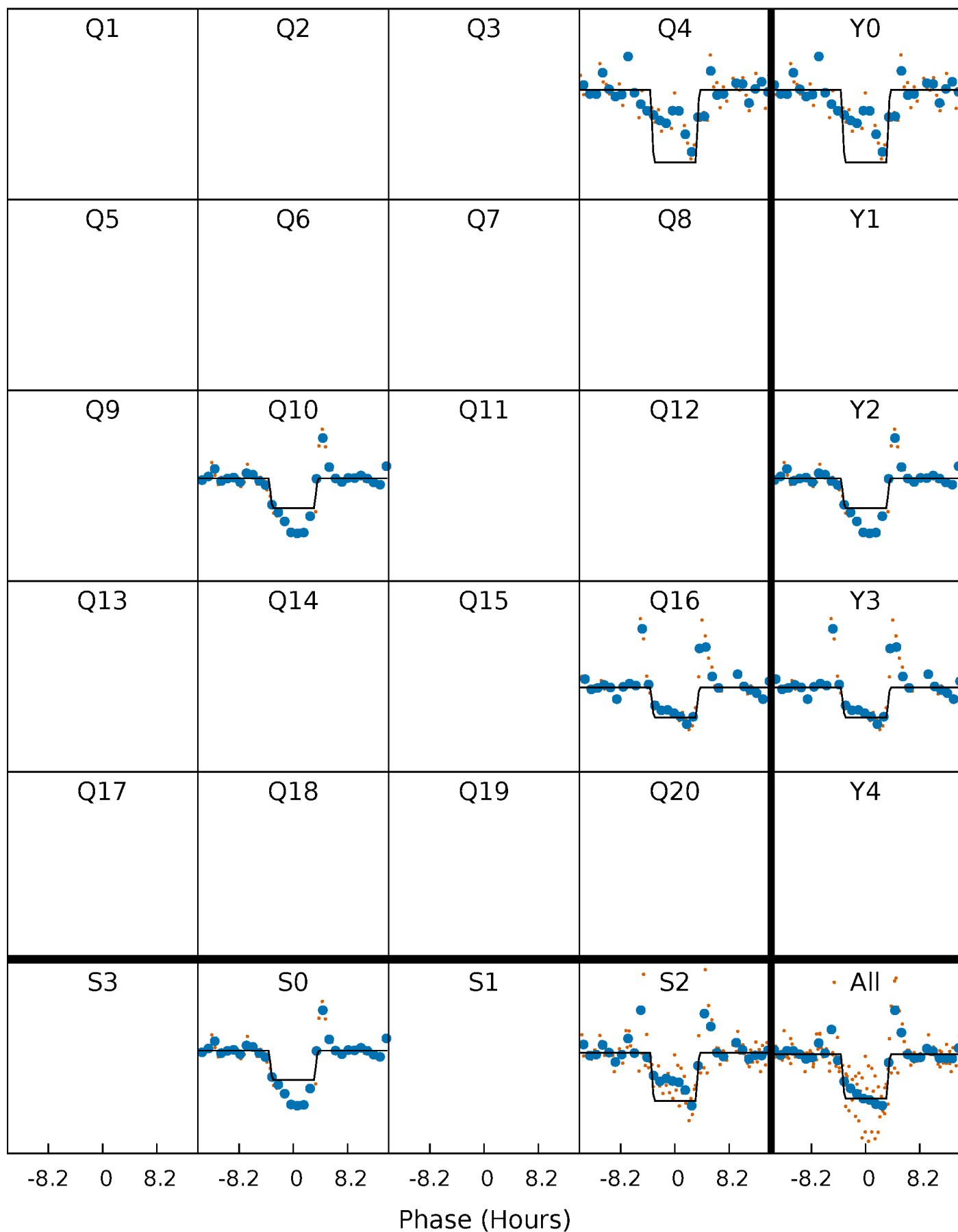
DV Quarter-Phased Transit Curves

TCE 007692454-02 P=562.082906 Days $T_0=388.968425$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

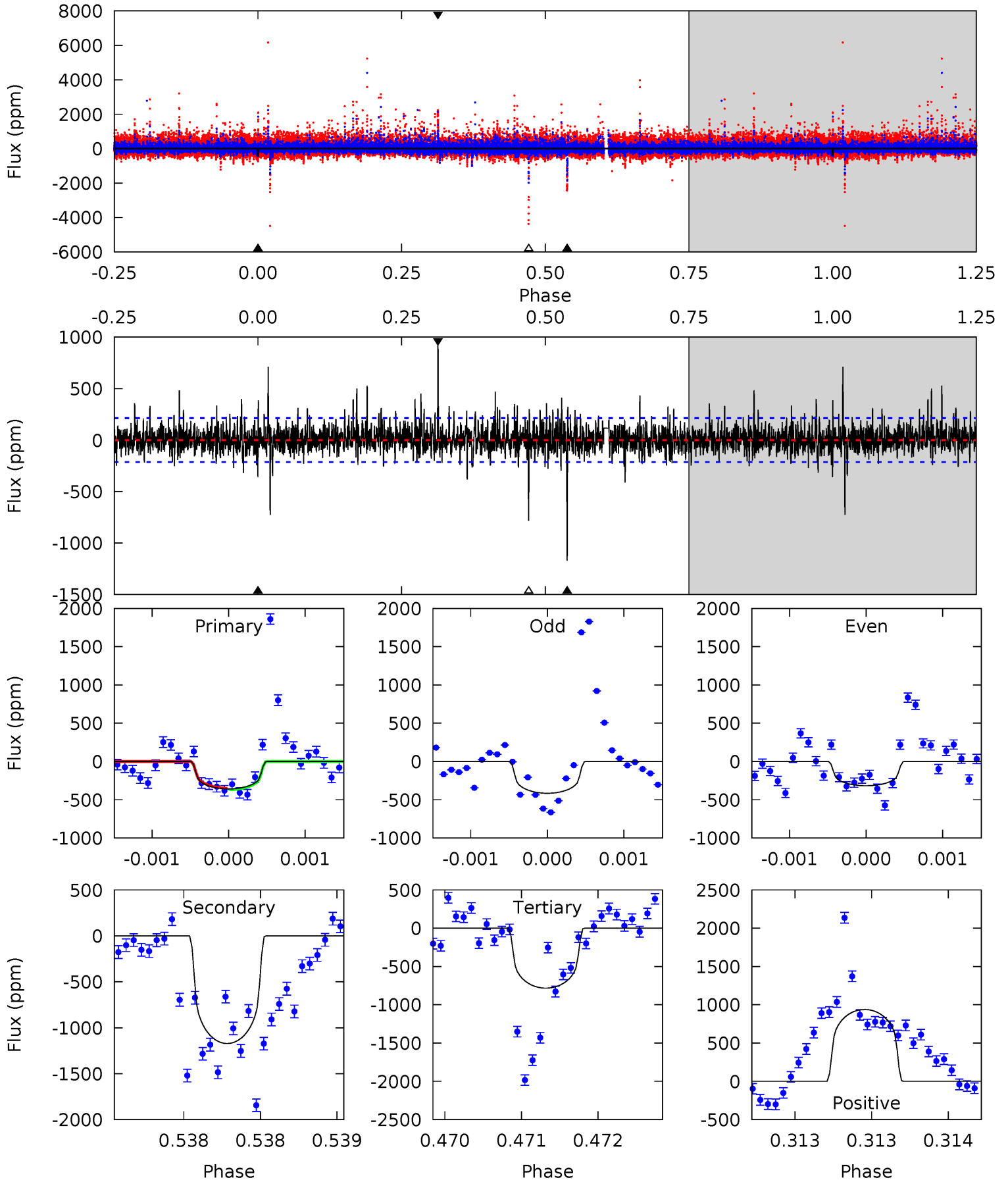
TCE 007692454-02 P=562.093180 Days $T_0=388.953421$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-02, P = 562.082906 Days, E = 388.968425 Days

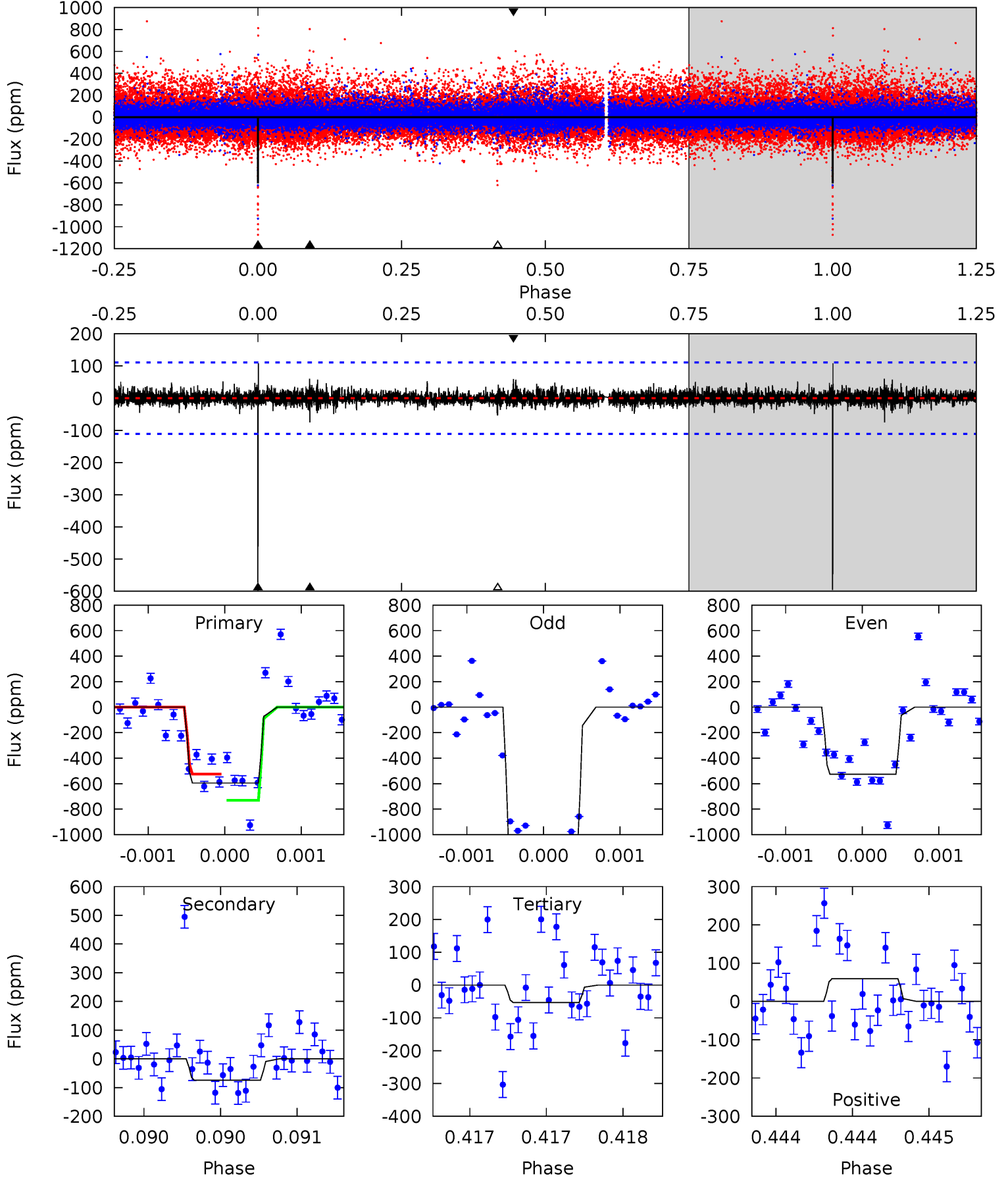
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.29	30.4	20.3	24.3	5.54	3.42	2.65	-11.0	-15.1	10.1	6.06	0.90	1.02	0.44	0.27



Alt Model-Shift Uniqueness Test

007692454-02, P = 562.093180 Days, E = 388.953421 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.9	3.73	2.67	2.98	5.56	3.47	0.56	27.2	26.9	1.06	0.75	17.2	1.10	0.15	0



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1172 ± 39	$1.59^{+0.57}_{-0.56}$	168^{+7}_{-7}	4230^{+827}_{-462}	$322360^{+434118}_{-146113}$
Alt.	-74 ± 20	$1.69^{+0.59}_{-0.59}$	167^{+6}_{-7}	2714^{+355}_{-239}	17922^{+25554}_{-8699}

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

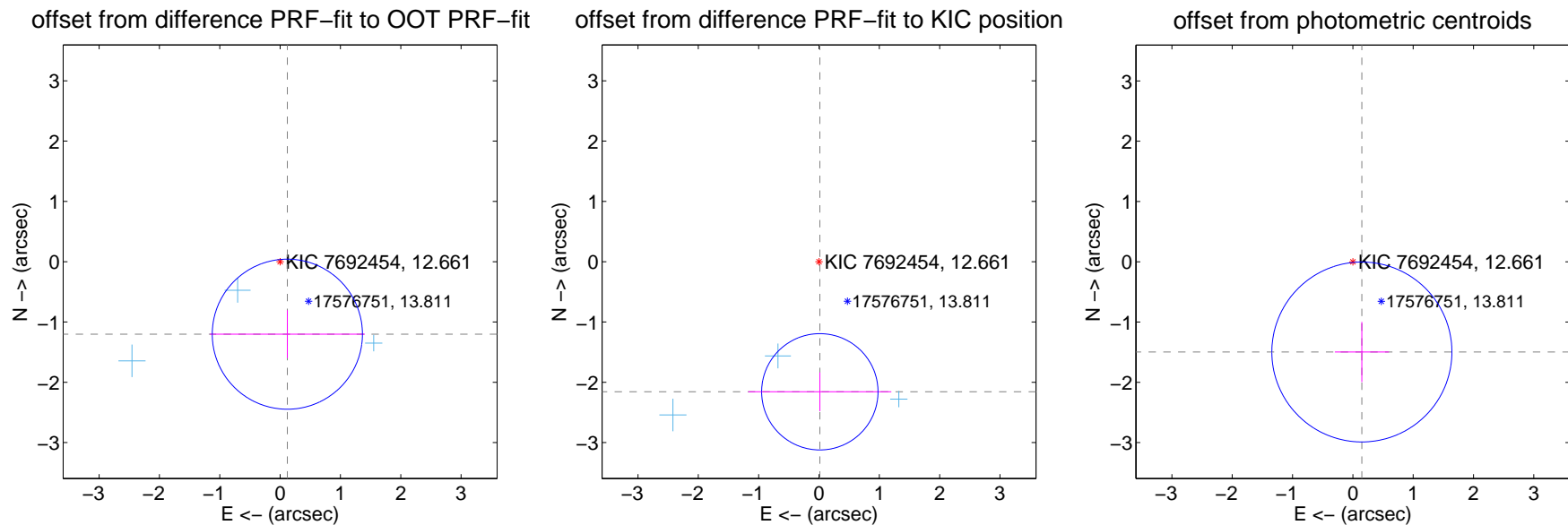
DV Centroid Data

Supplemental centroid analysis for 007692454-02. Kepler magnitude: 12.66. Transit SNR 8.41

There are 3 quarters with good PRF difference image offsets

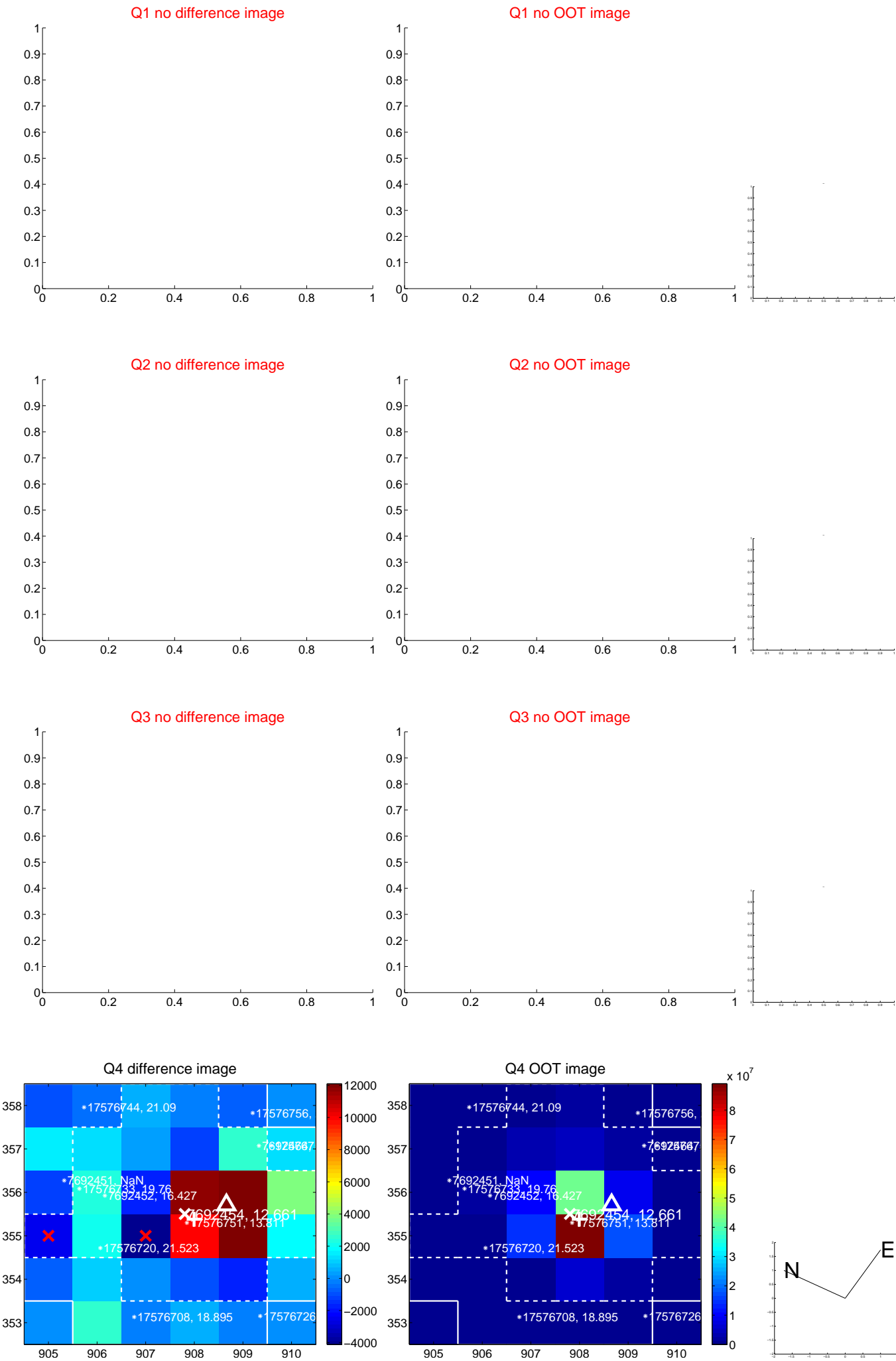
The direct PRF centroid is offset from the target star catalog position by about 1.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.208 ± 0.415	2.91	-0.120 ± 1.285	-1.202 ± 0.397
PRF-fit source offset from KIC position	2.158 ± 0.321	6.71	-0.014 ± 1.186	-2.158 ± 0.321
photometric centroid source offset	1.50 ± 0.50	3.02	-0.15 ± 0.45	-1.50 ± 0.50



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.

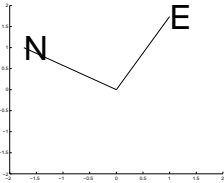
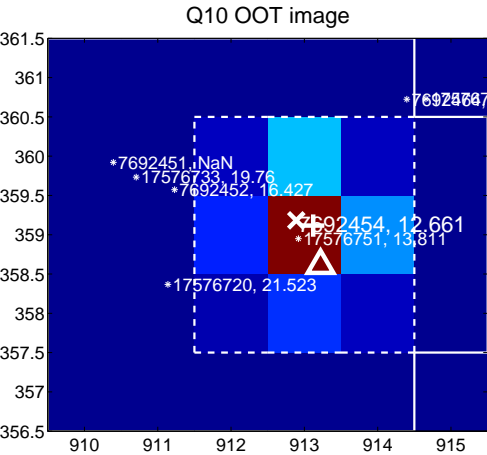
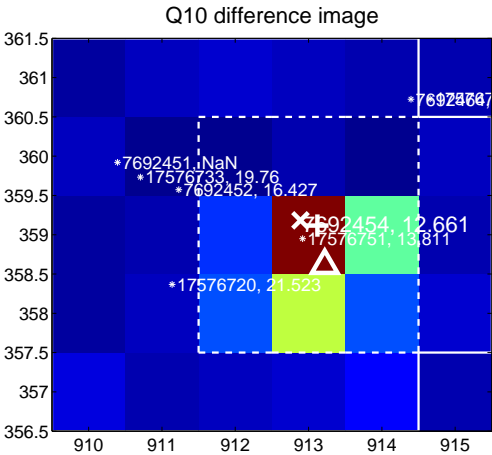


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

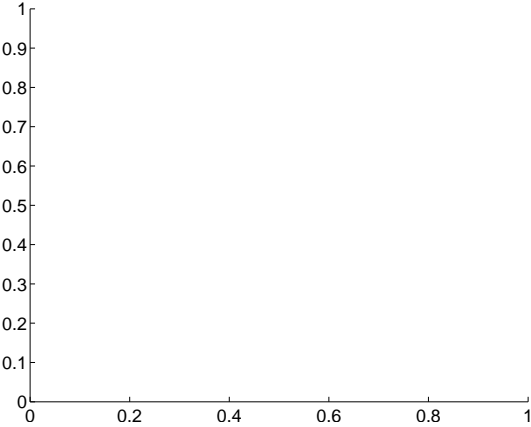
Q9 no difference image



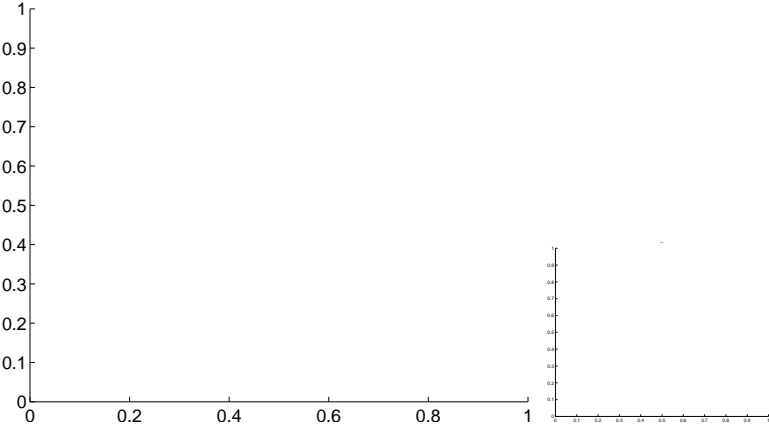
Q9 no OOT image



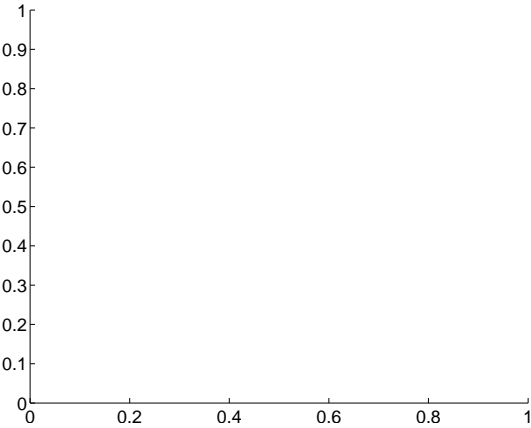
Q11 no difference image



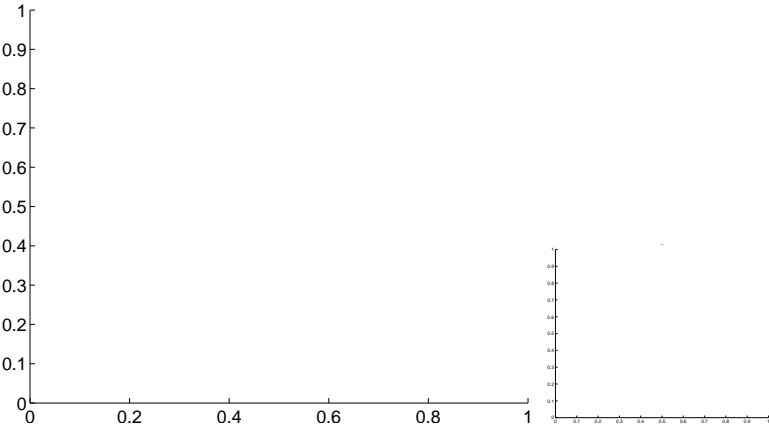
Q11 no OOT image



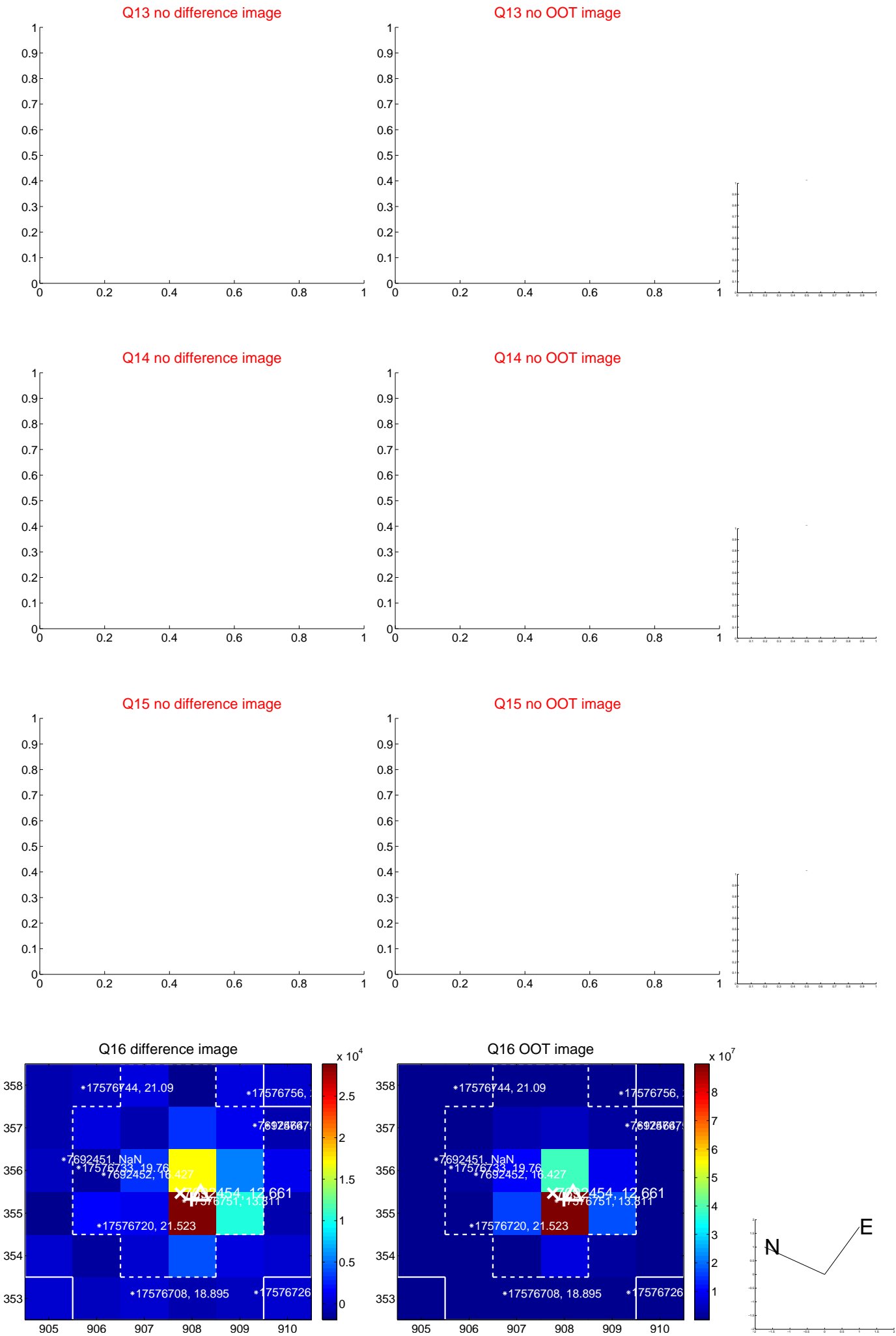
Q12 no difference image



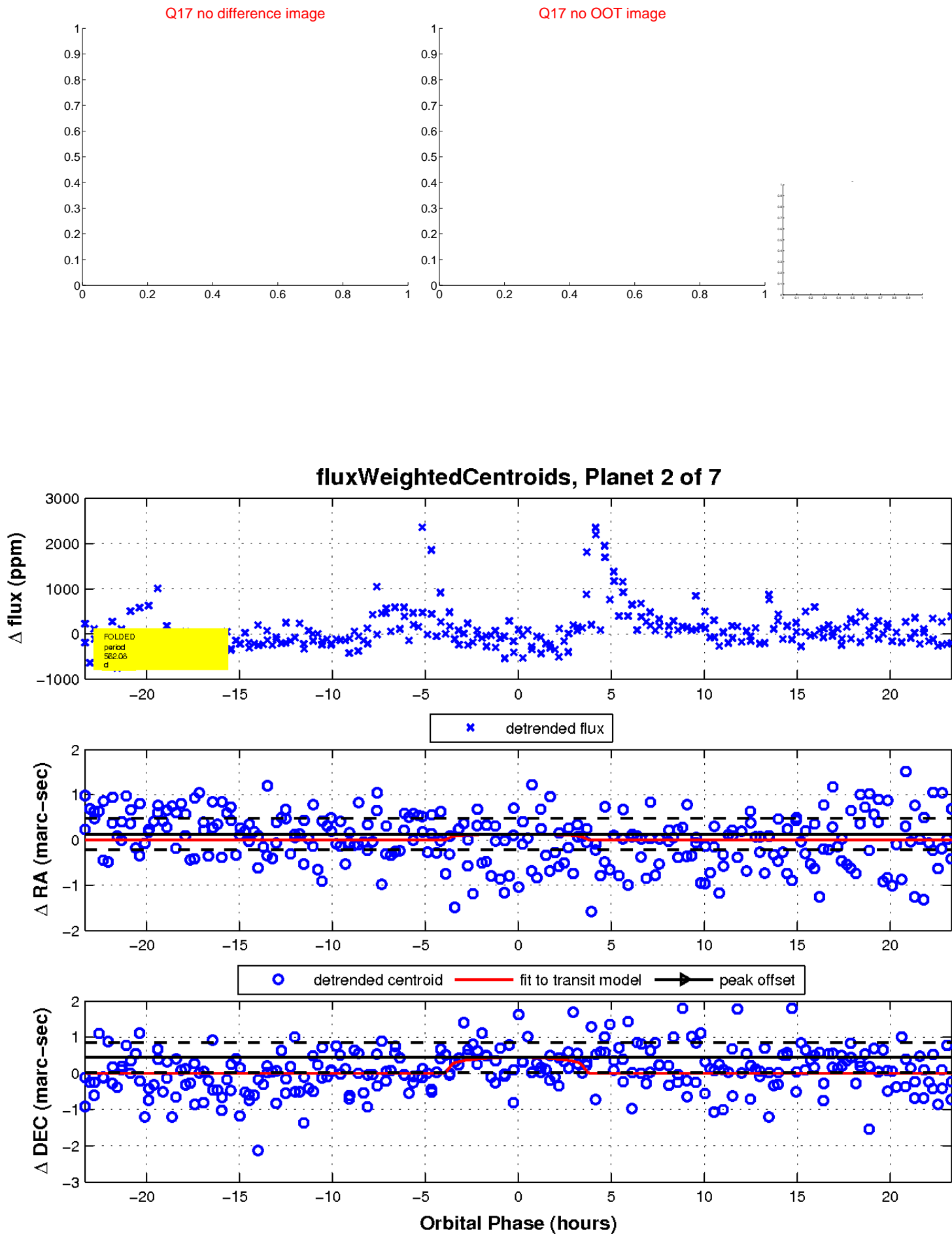
Q12 no OOT image



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

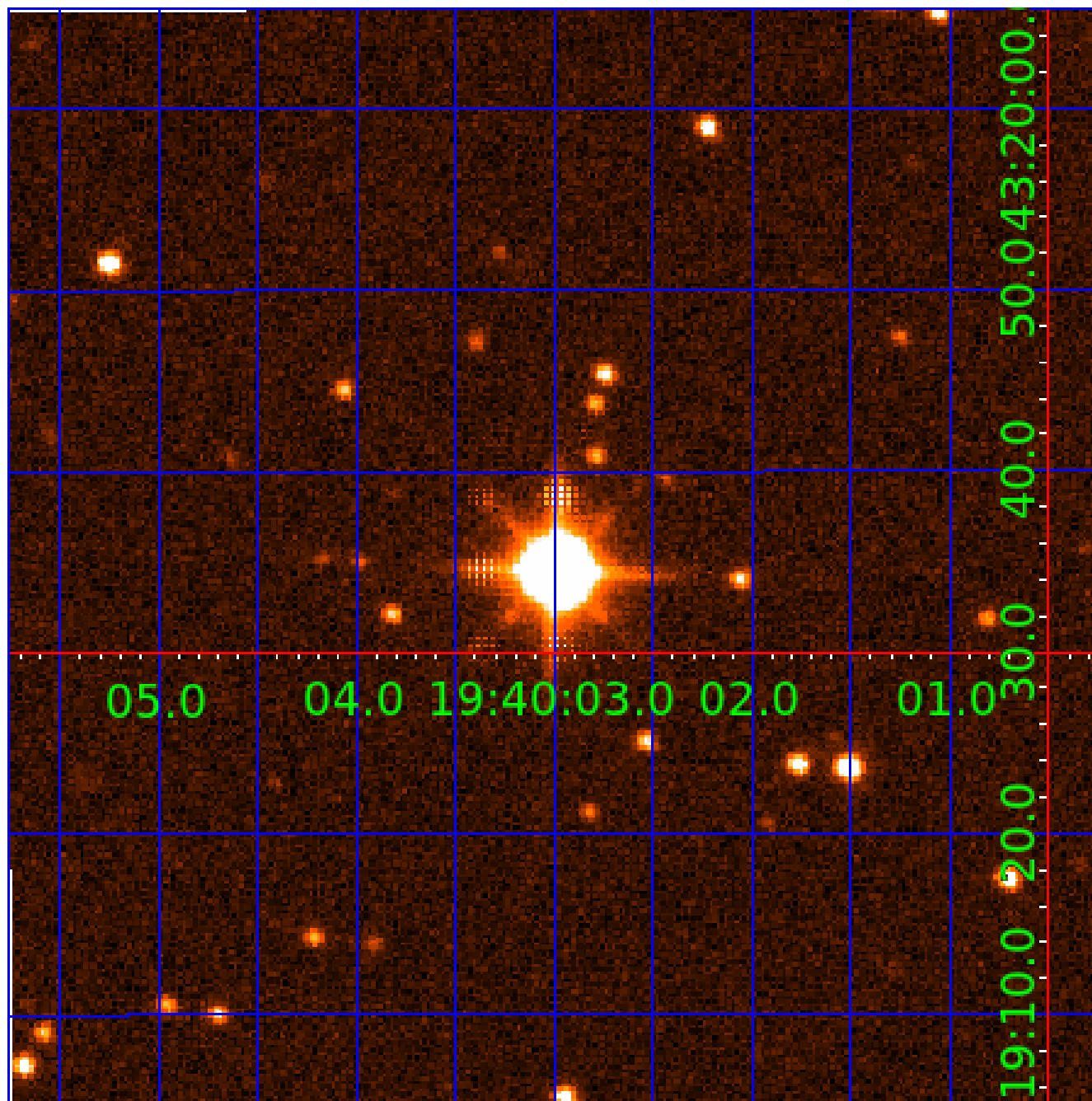


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

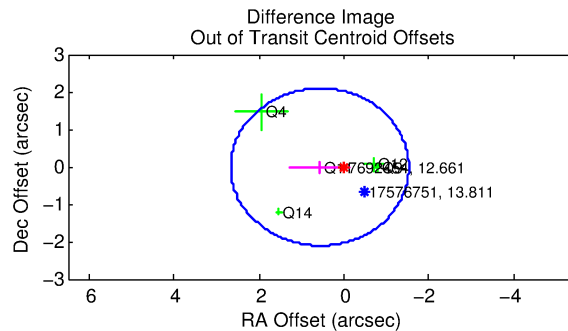
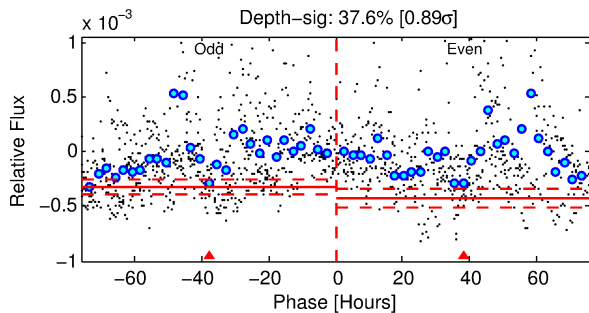
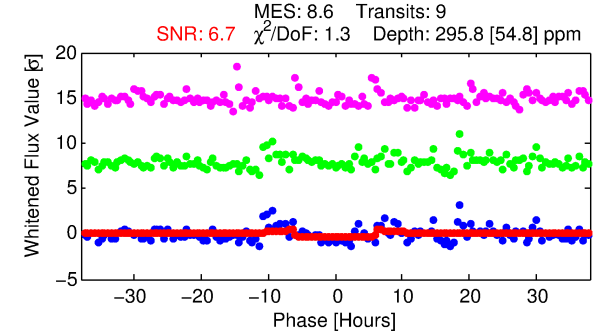
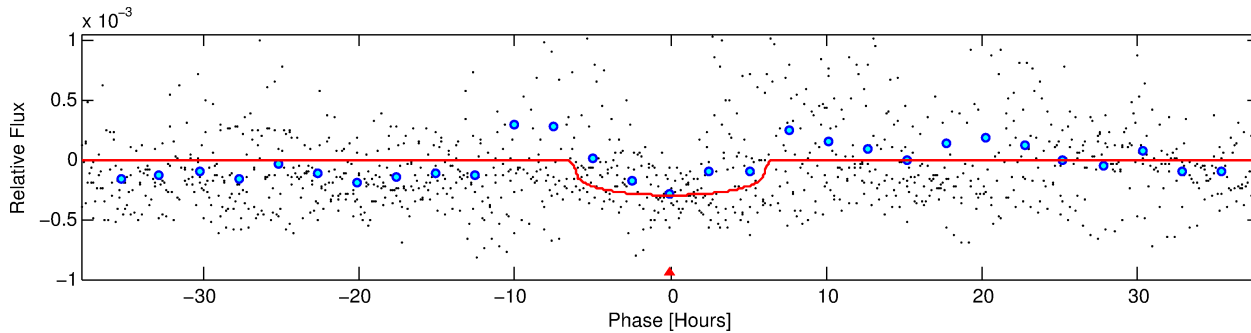
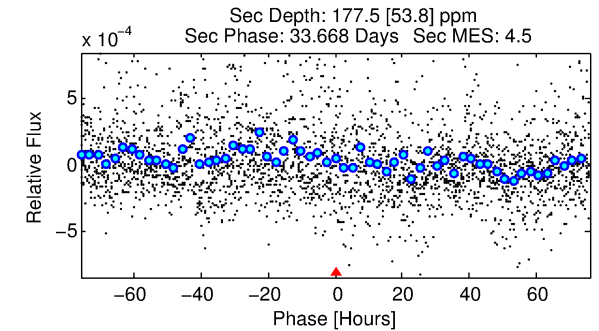
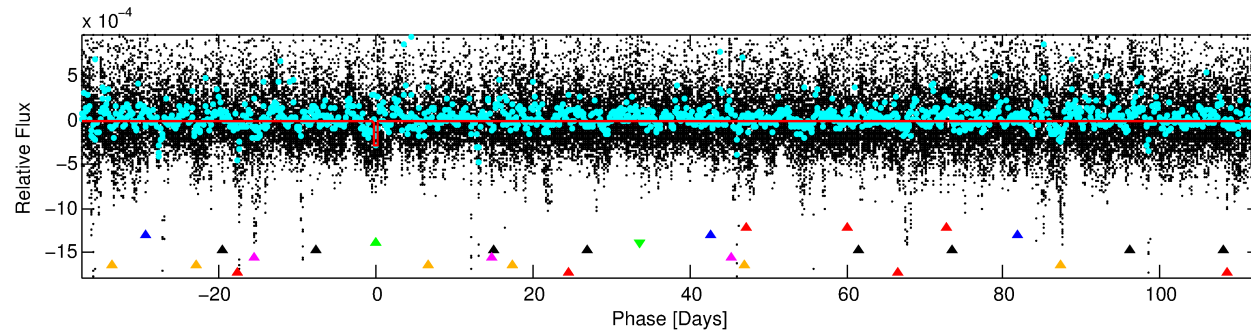
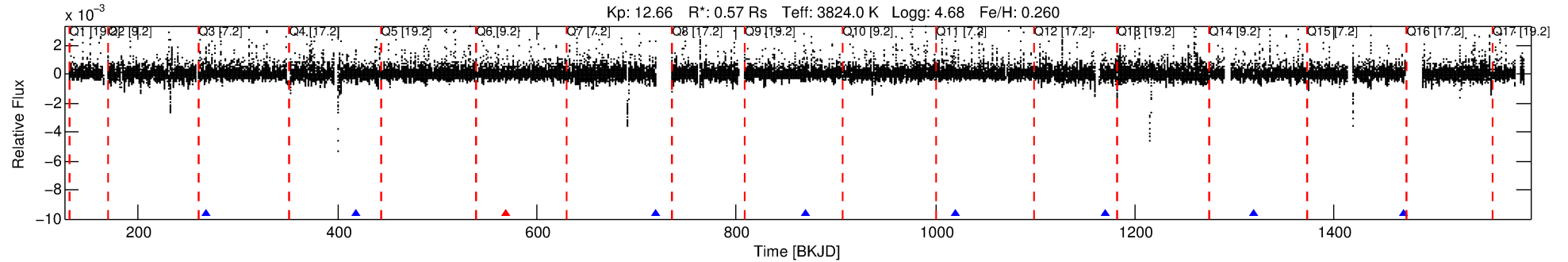
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-03

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 3 of 7 Period: 150.276 d



DV Fit Results:

Period = 150.27560 [0.00250] d
Epoch = 268.1187 [0.0128] BKJD
Rp/R* = 0.0162 [0.0084]
a/R* = 76.07 [138.00]
b = 0.58 [2.12]
Seff = 0.30 [0.06]
Teq = 188 [10] K
Rp = 1.01 [0.55] Re
a = 0.4617 [0.0480] AU
Ag = 20214.61 [22121.34] [0.91 σ]
Teffp = 3471 [951] K [3.45 σ]

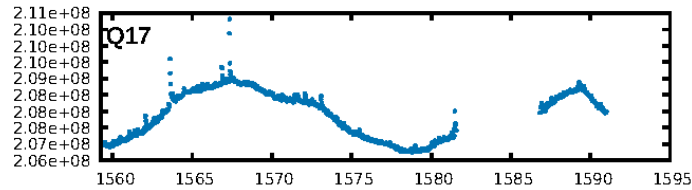
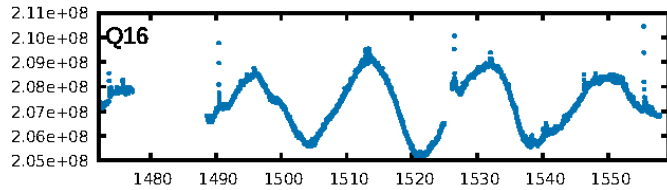
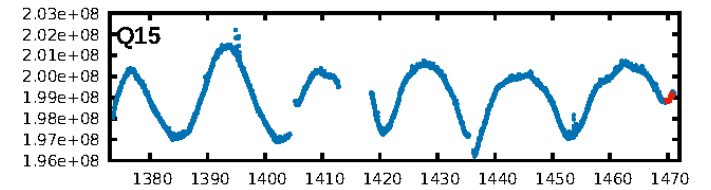
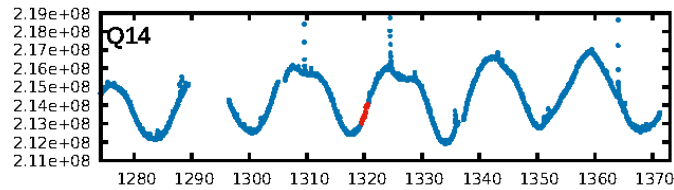
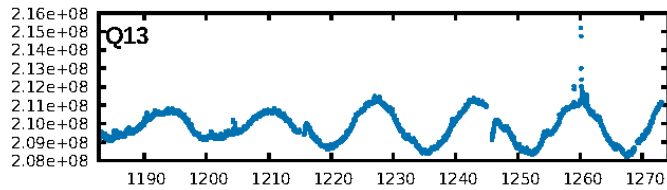
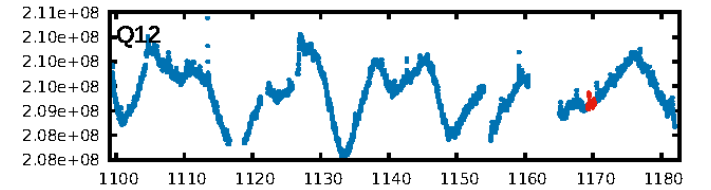
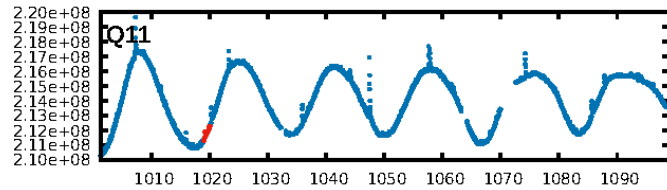
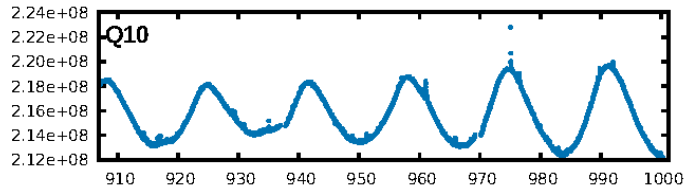
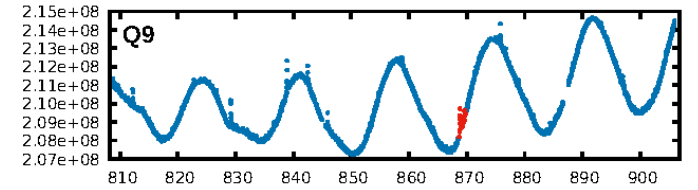
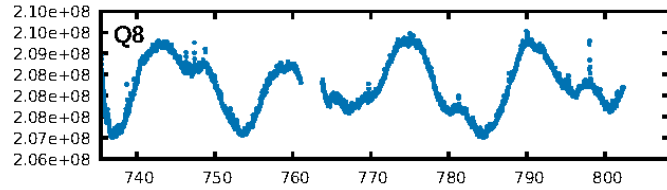
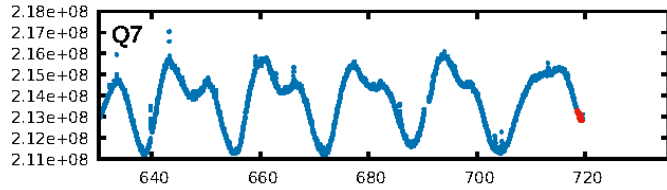
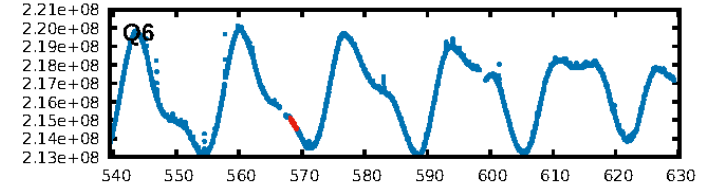
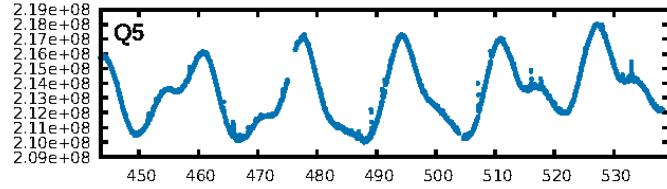
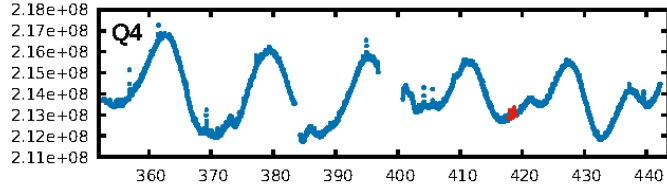
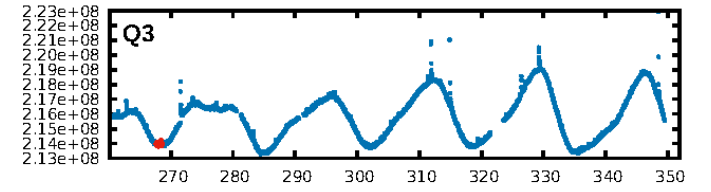
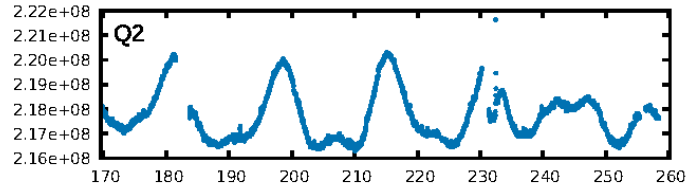
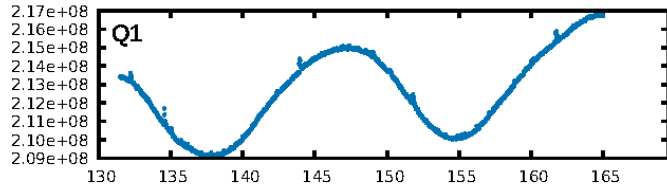
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [64.83 σ]
ModelChiSquare2-sig: 5.8%
ModelChiSquareGof-sig: 99.6%
Bootstrap-pfa: 4.10e-08
RollingBand-fgt: 0.89 [8/9]
GhostDiagnostic-chr: 0.1597
Centroid-sig: 19.8%
Centroid-so: 1.162 arcsec [2.72 σ]
OotOffset-rm: 0.562 arcsec [0.80 σ]
KicOffset-rm: 0.953 arcsec [2.65 σ]
OotOffset-st: 1/1/2/1 [5]
KicOffset-st: 1/1/2/1 [5]
DiffImageQuality-fgm: 0.80 [4/5]
DiffImageOverlap-fno: 1.00 [5/5]

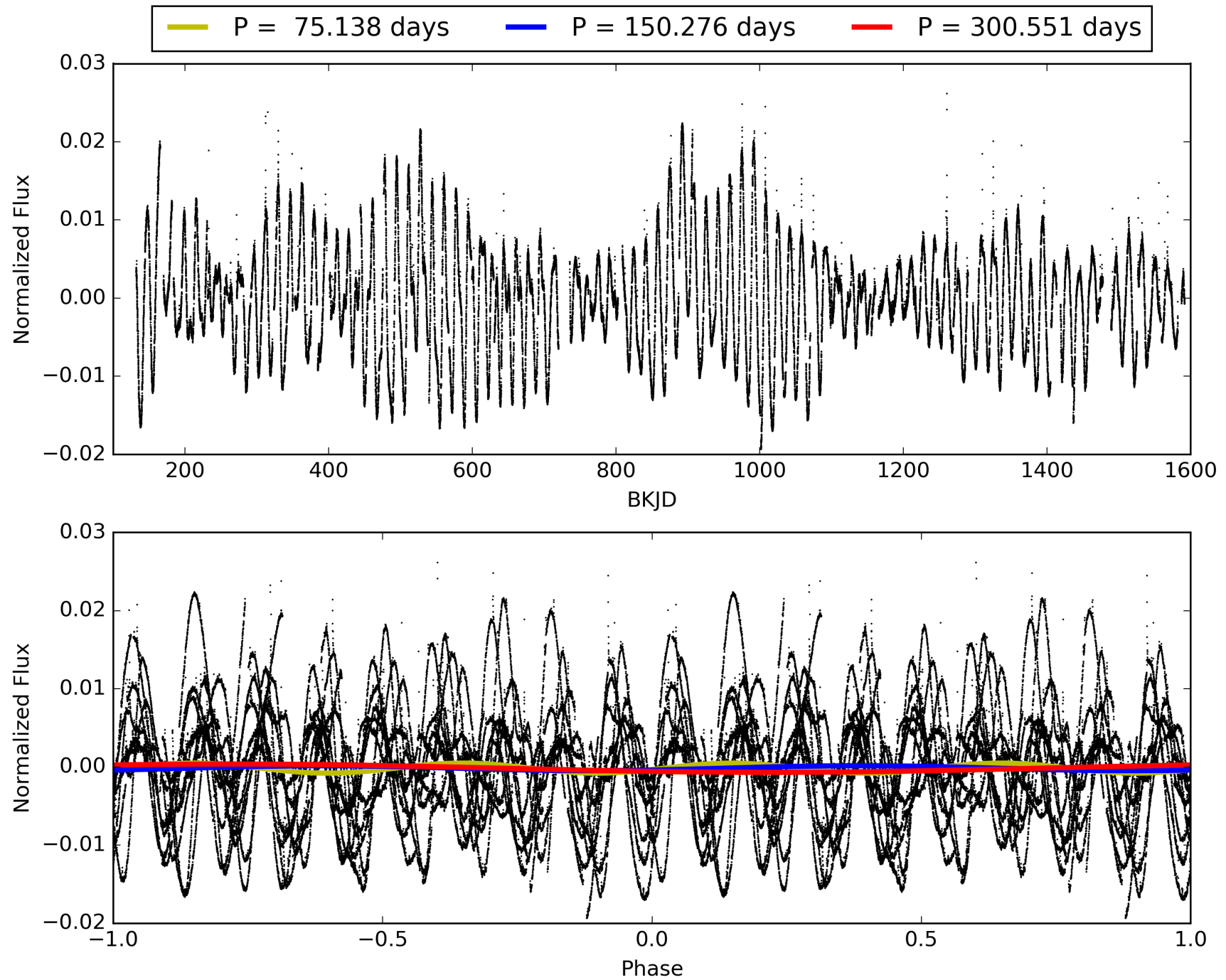
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:58:07 Z

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

TCE 007692454-03, PDC Light Curves

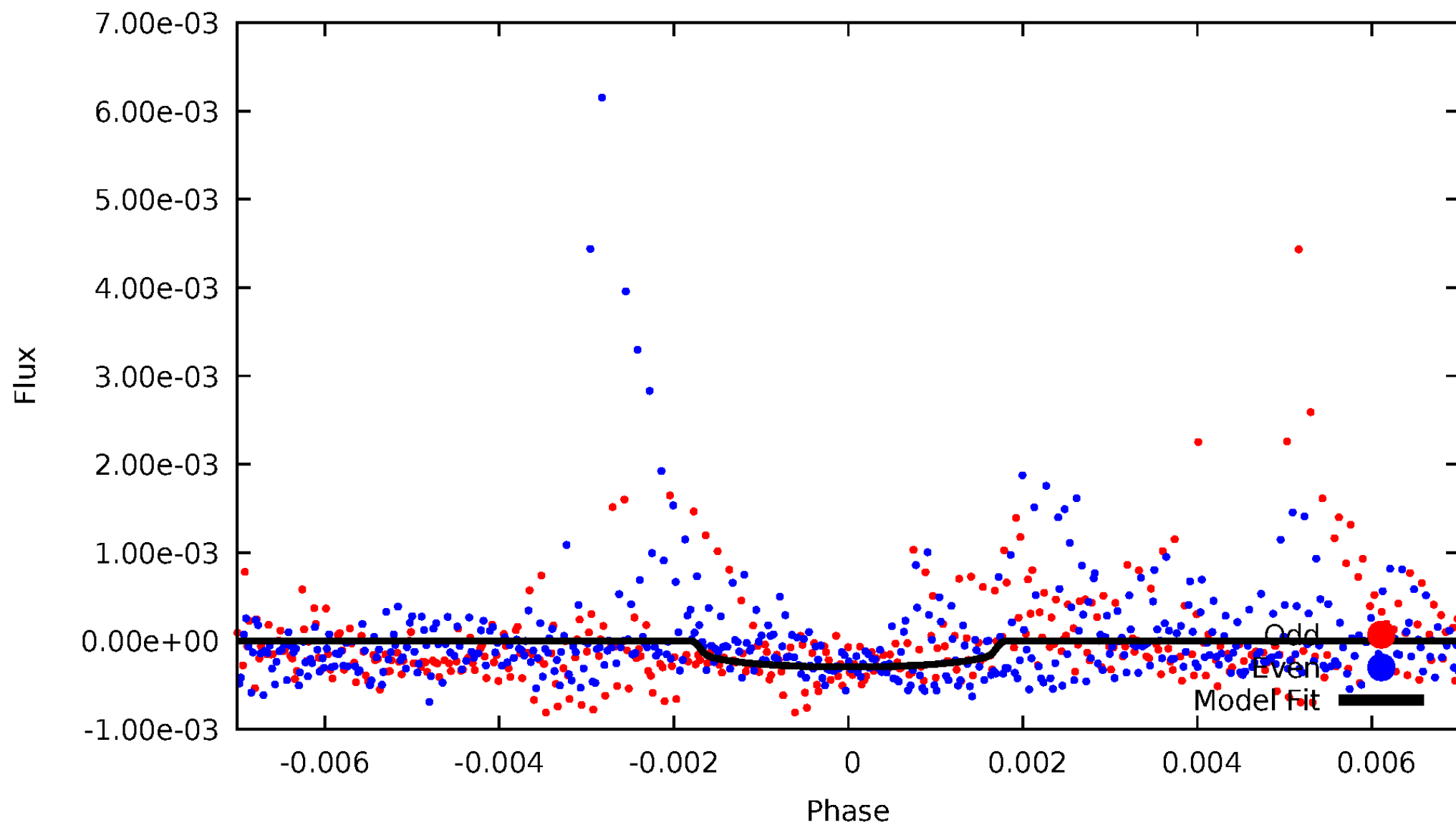


TCE 007692454-03



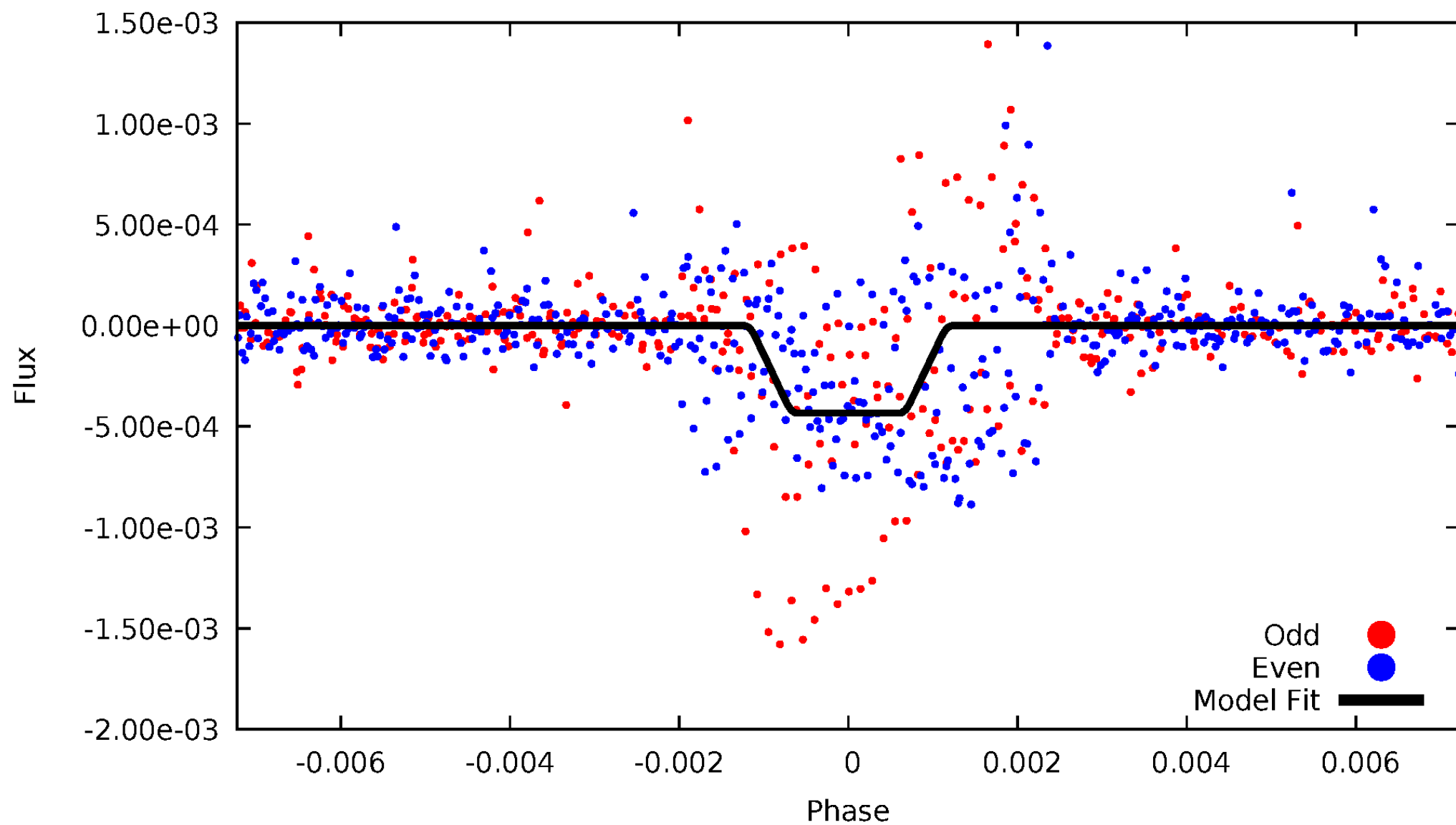
DV Odd/Even

TCE 007692454-03



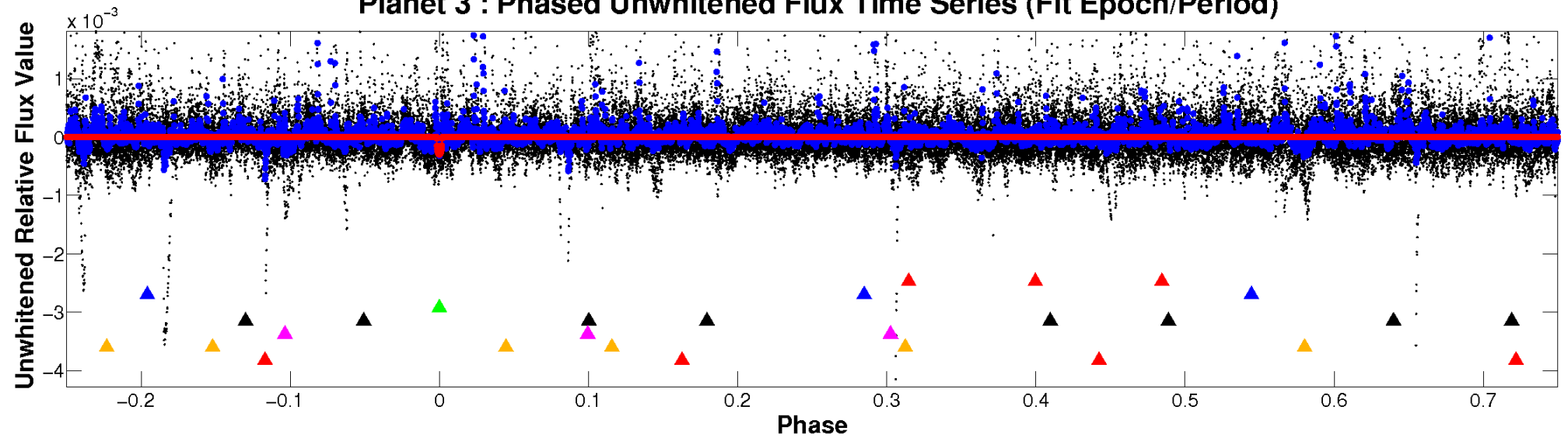
ALT Odd/Even

TCE 007692454-03

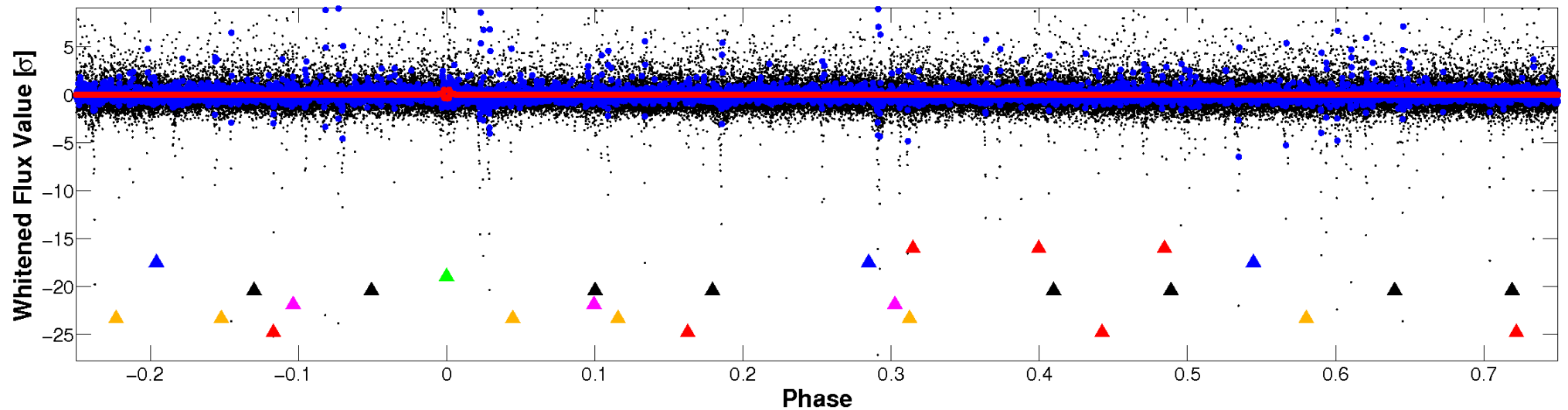


Non-Whitened Vs. Whitened Light Curve

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

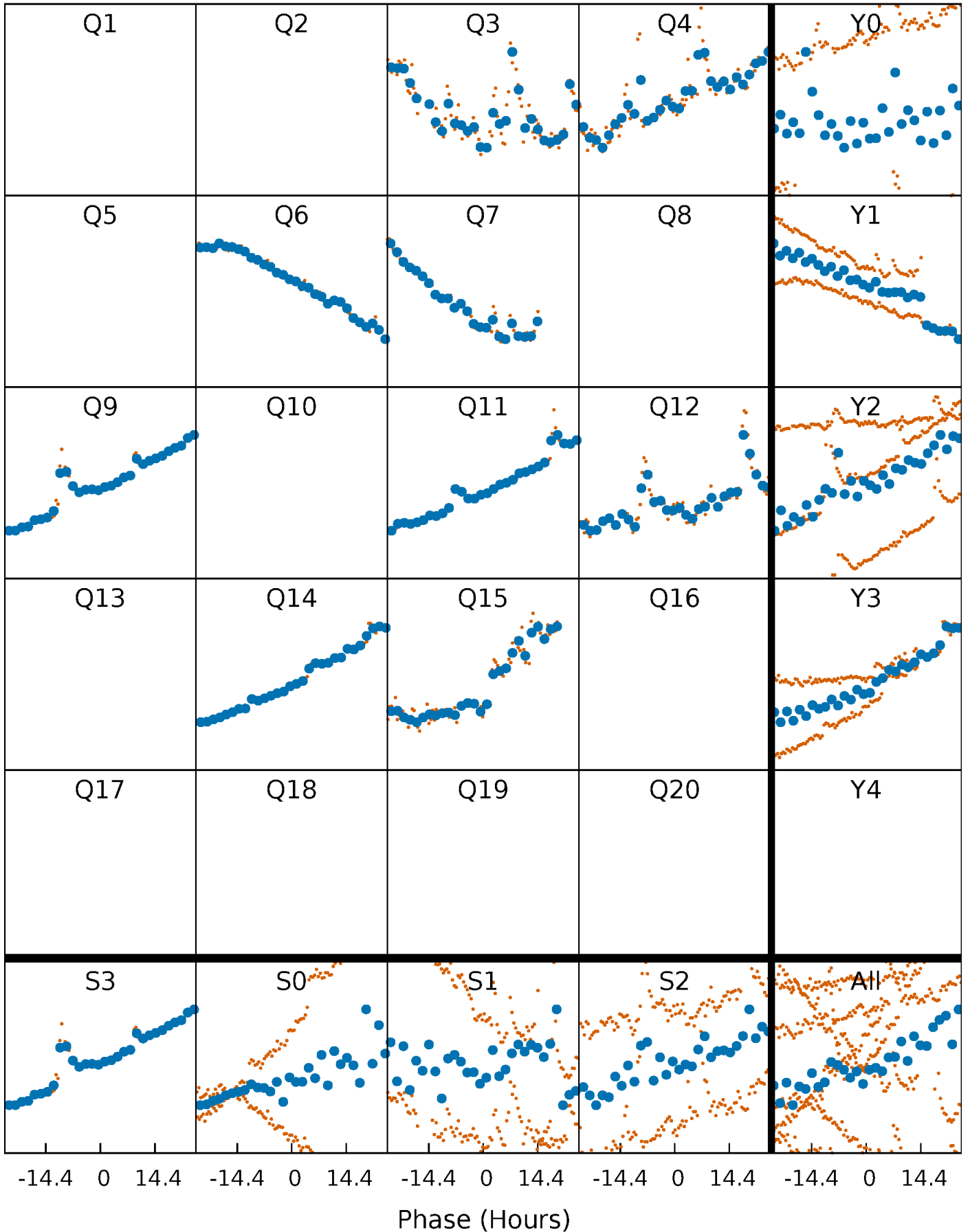


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



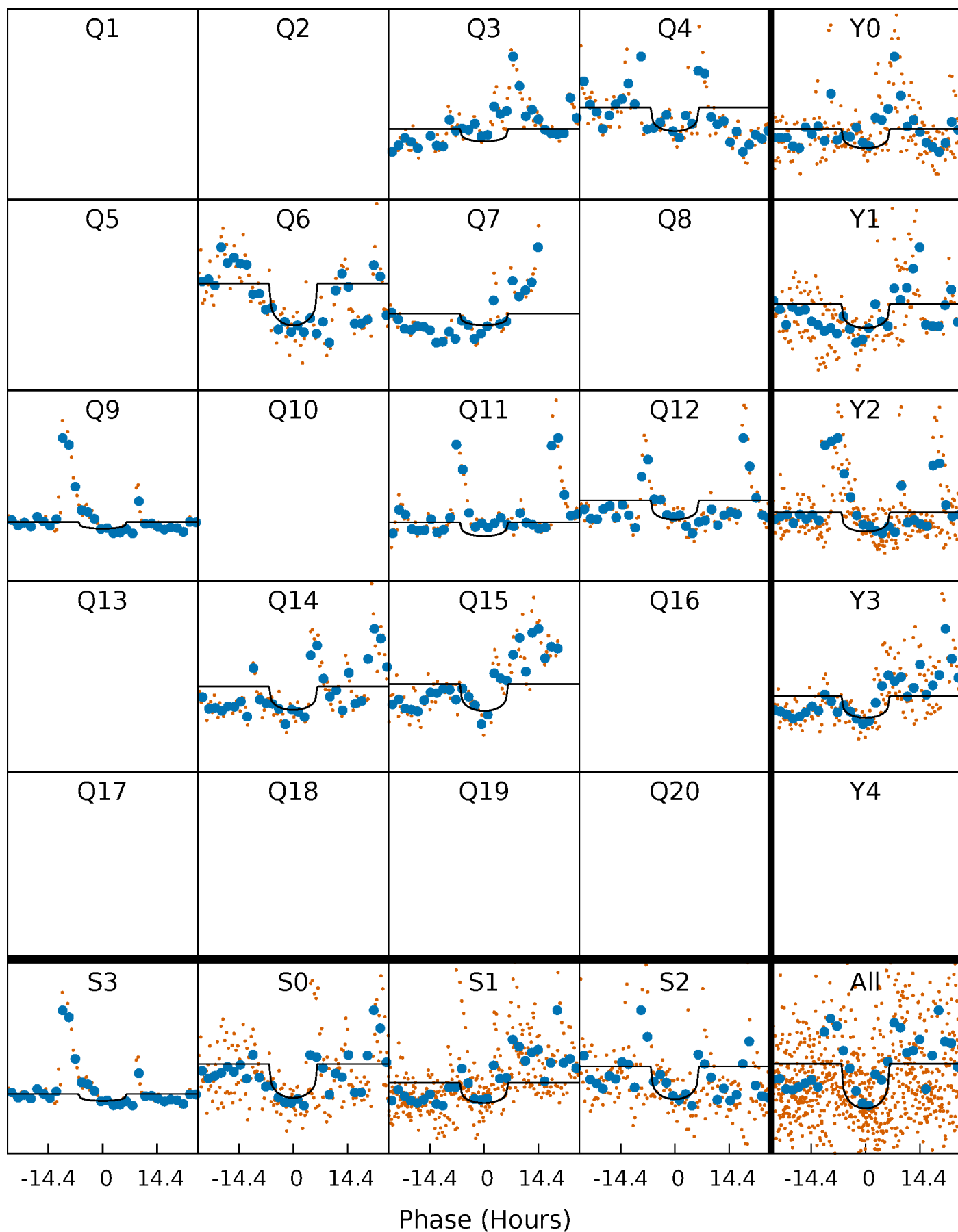
PDC Quarter-Phased Transit Curves

TCE 007692454-03 P=150.275605 Days $T_0=268.118711$ (BKJD)



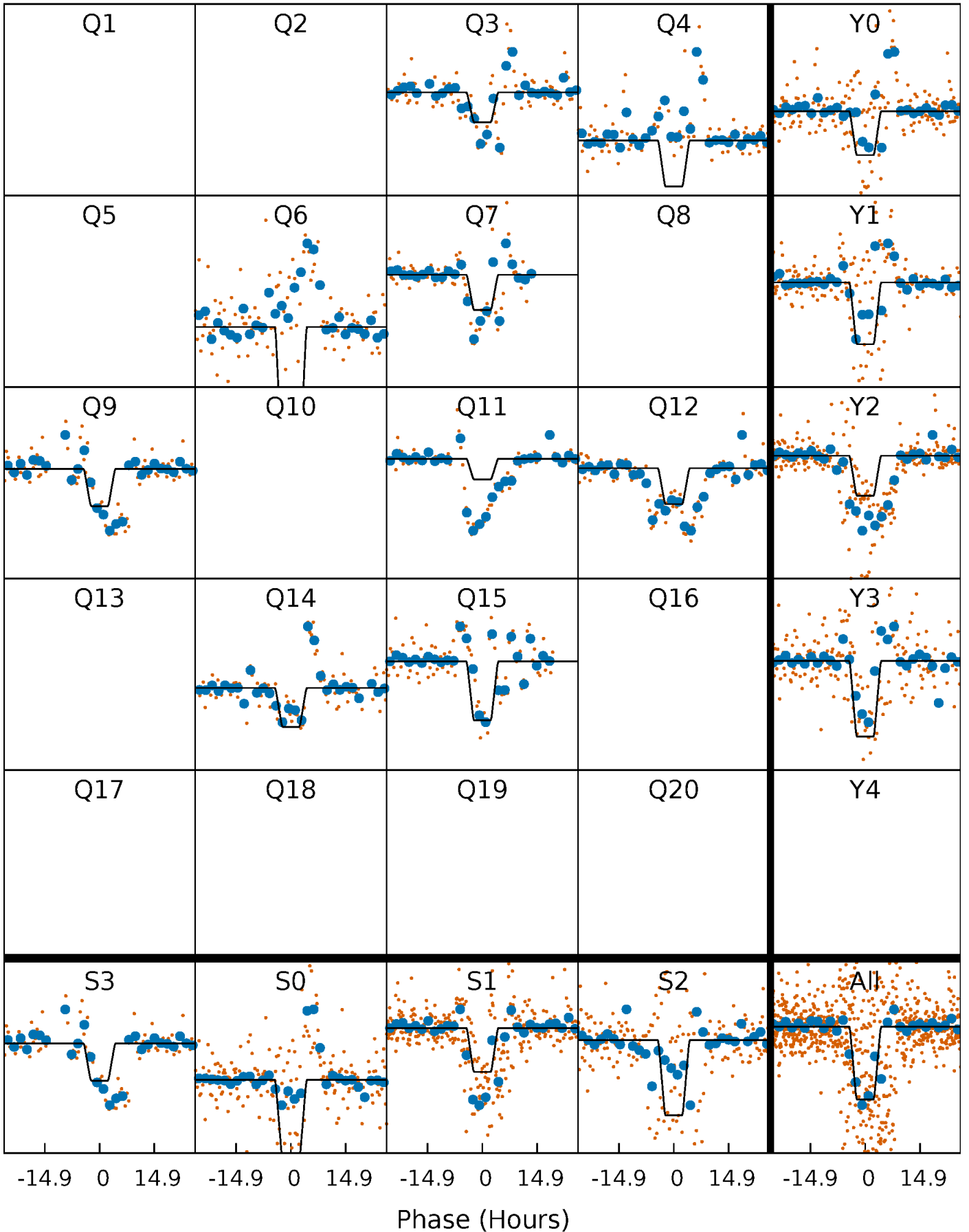
DV Quarter-Phased Transit Curves

TCE 007692454-03 P=150.275605 Days $T_0=268.118711$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

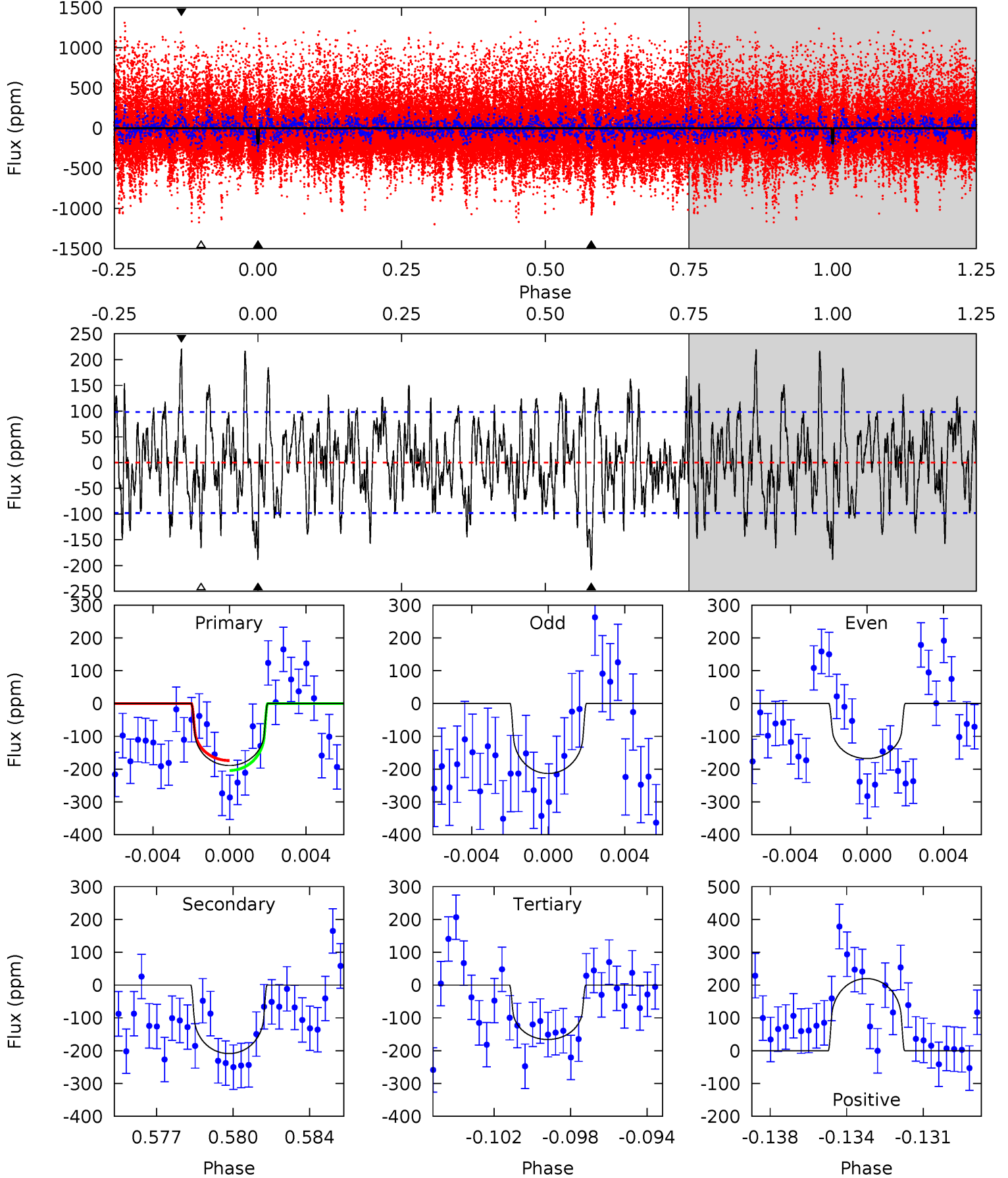
TCE 007692454-03 P=150.275211 Days $T_0=268.139382$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-03, P = 150.275605 Days, E = 117.843106 Days

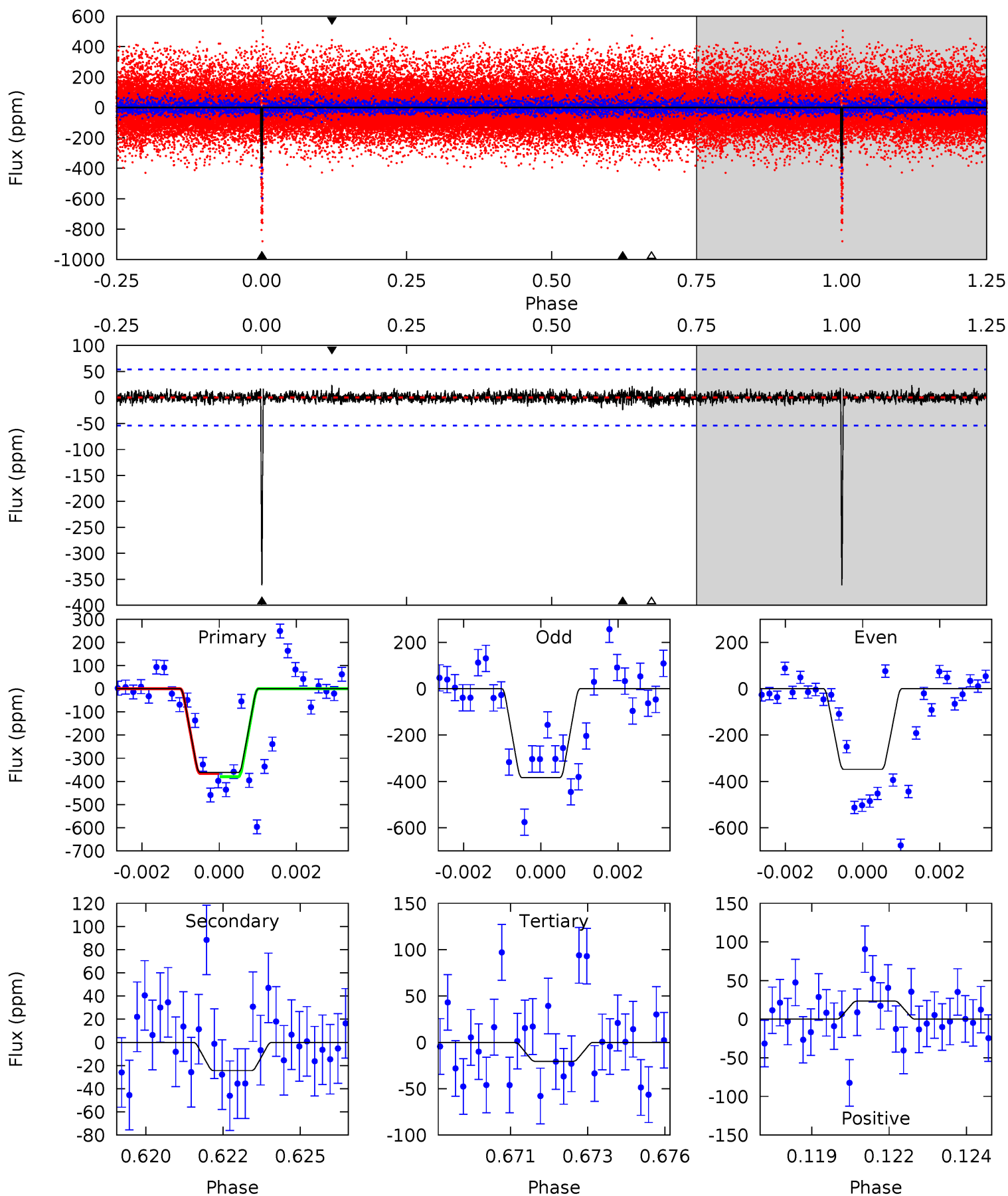
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	11.1	8.83	11.7	5.22	2.91	3.49	1.23	-1.63	2.28	-0.58	1.19	0.69	0.51	0.81



Alt Model-Shift Uniqueness Test

007692454-03, P = 150.275211 Days, E = 117.864171 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.3	2.38	2.00	2.28	5.29	3.03	0.54	33.3	33.0	0.38	0.10	1.73	0.90	0.06	0.67



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-209 ± 19	$1.02^{+0.48}_{-0.50}$	260^{+11}_{-11}	3647^{+1015}_{-457}	24529^{+66778}_{-13687}
Alt.	-24 ± 10	$1.29^{+0.48}_{-0.52}$	260^{+10}_{-11}	2510^{+384}_{-242}	1639^{+3108}_{-903}

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

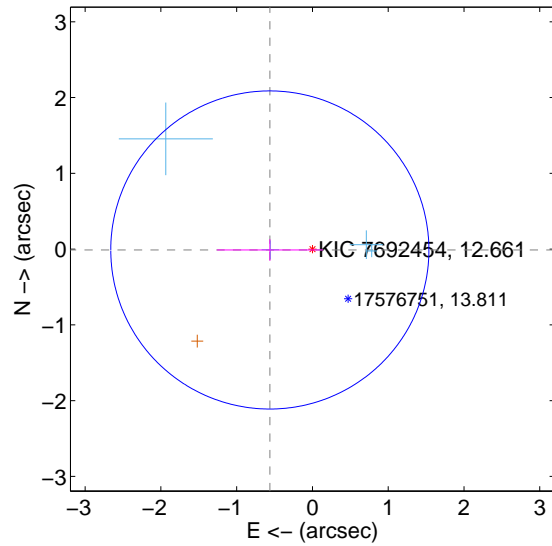
Supplemental centroid analysis for 007692454-03. Kepler magnitude: 12.66. Transit SNR 6.67

There are 4 quarters with good PRF difference image offsets

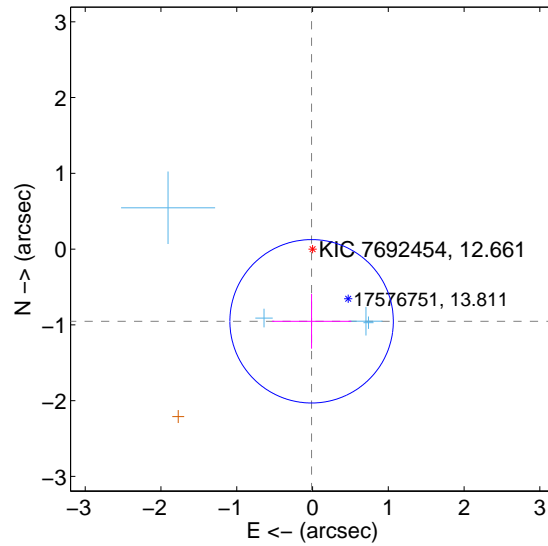
The direct PRF centroid is offset from the target star catalog position by about 1.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.562 ± 0.700	0.80	0.562 ± 0.700	-0.011 ± 0.142
PRF-fit source offset from KIC position	0.953 ± 0.359	2.65	0.012 ± 0.524	-0.953 ± 0.361
photometric centroid source offset	1.16 ± 0.43	2.72	0.51 ± 0.40	-1.05 ± 0.43

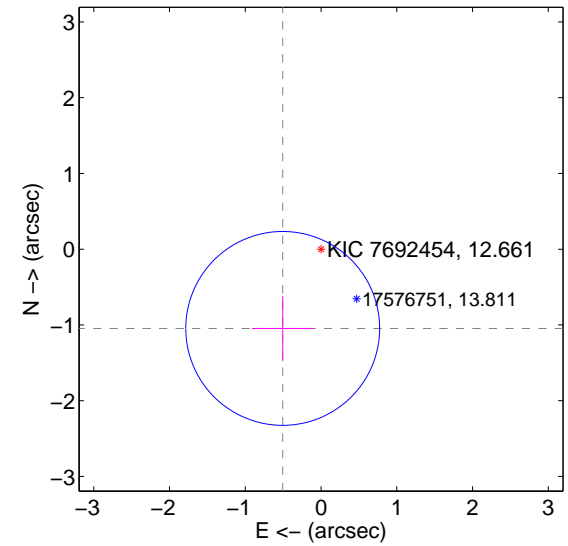
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

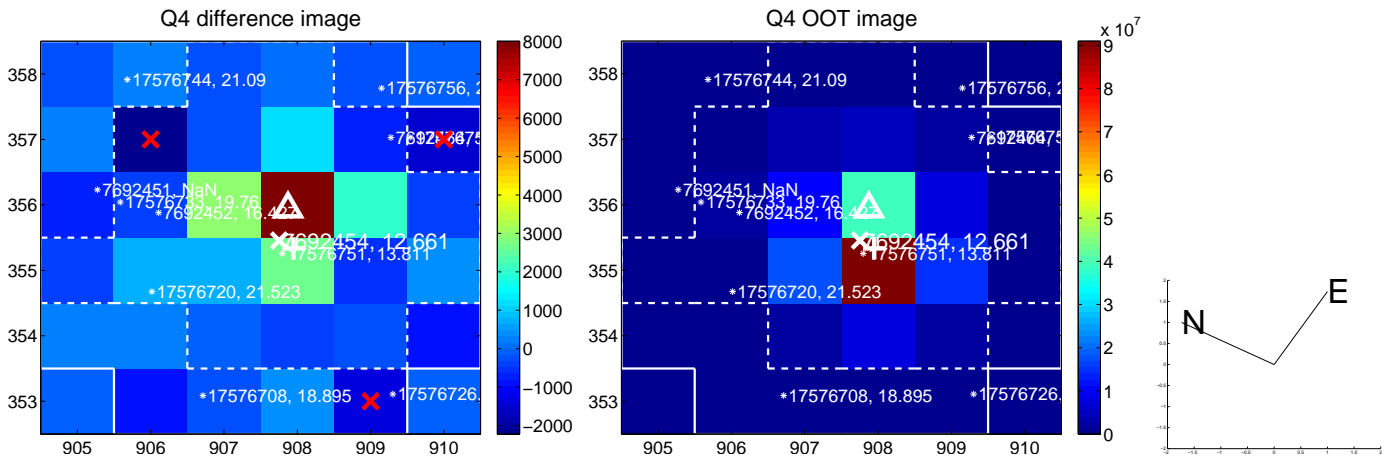
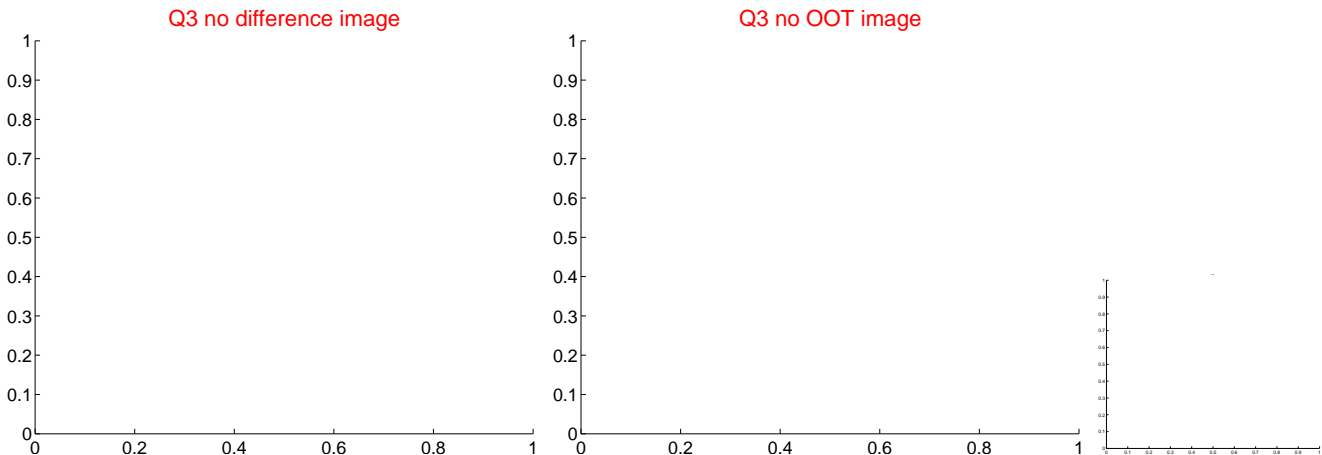
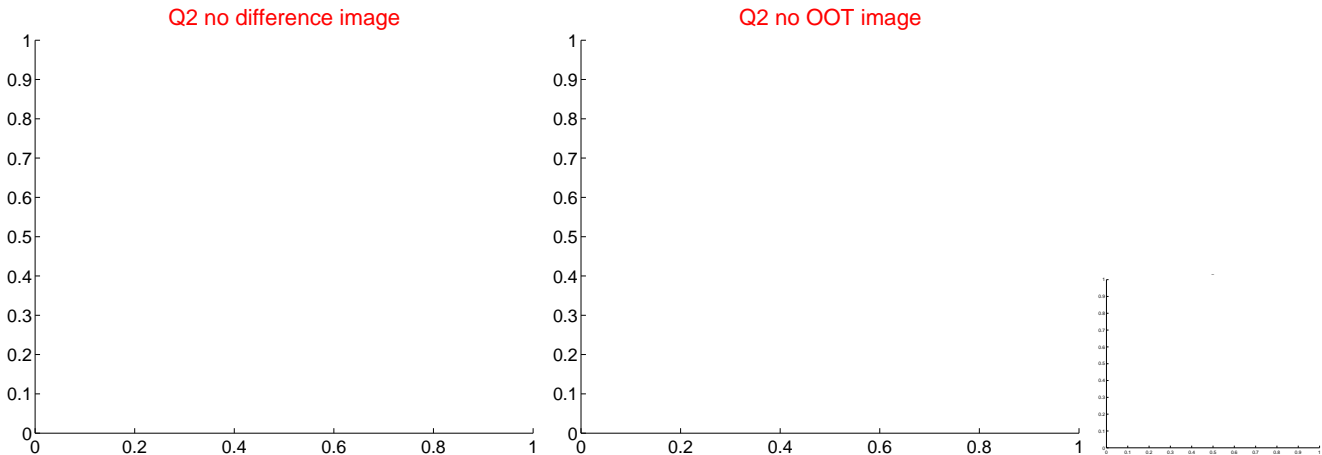
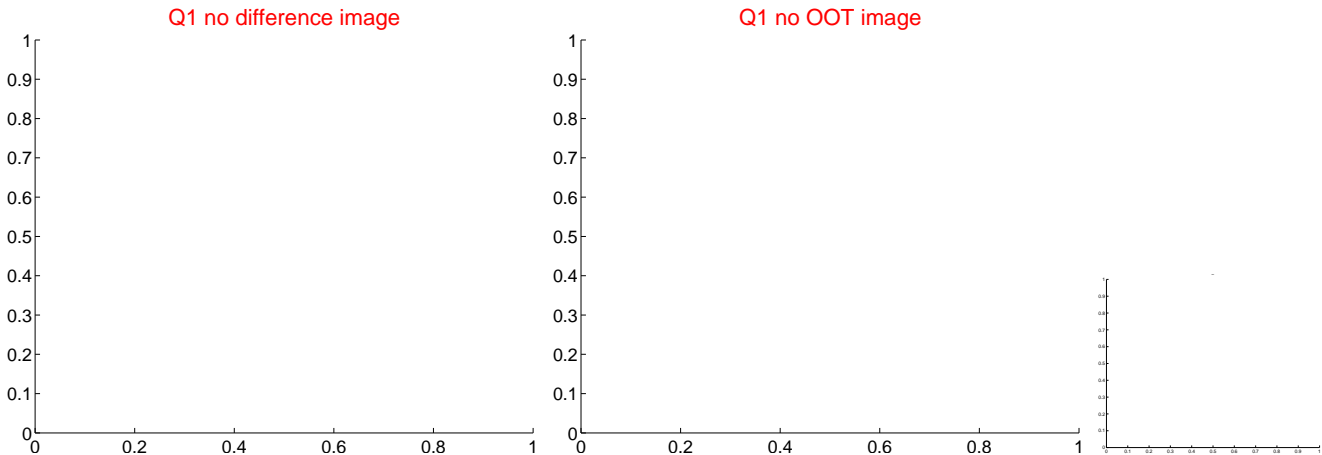


offset from photometric centroids



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

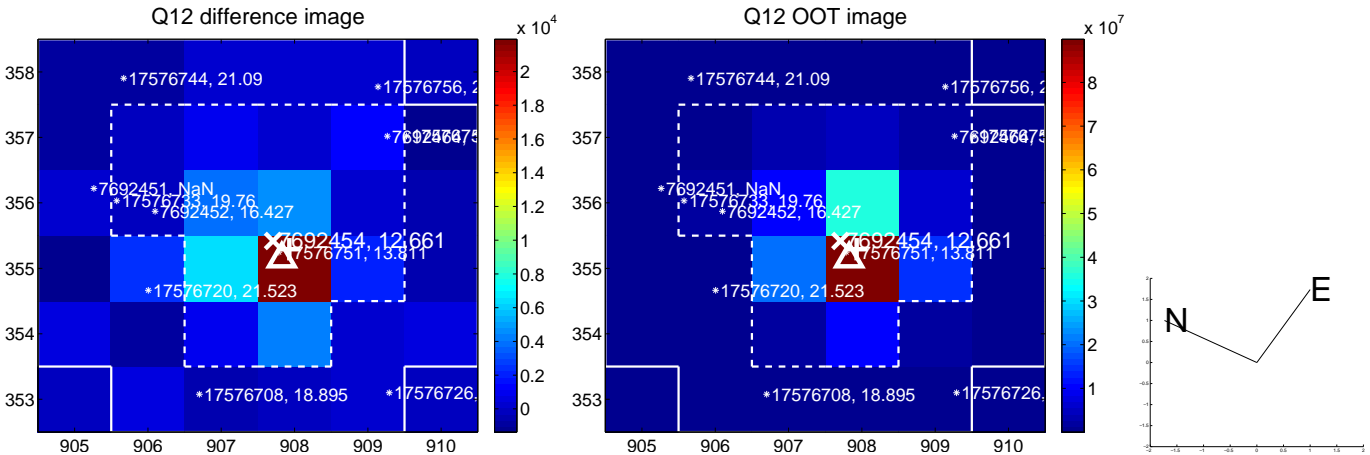
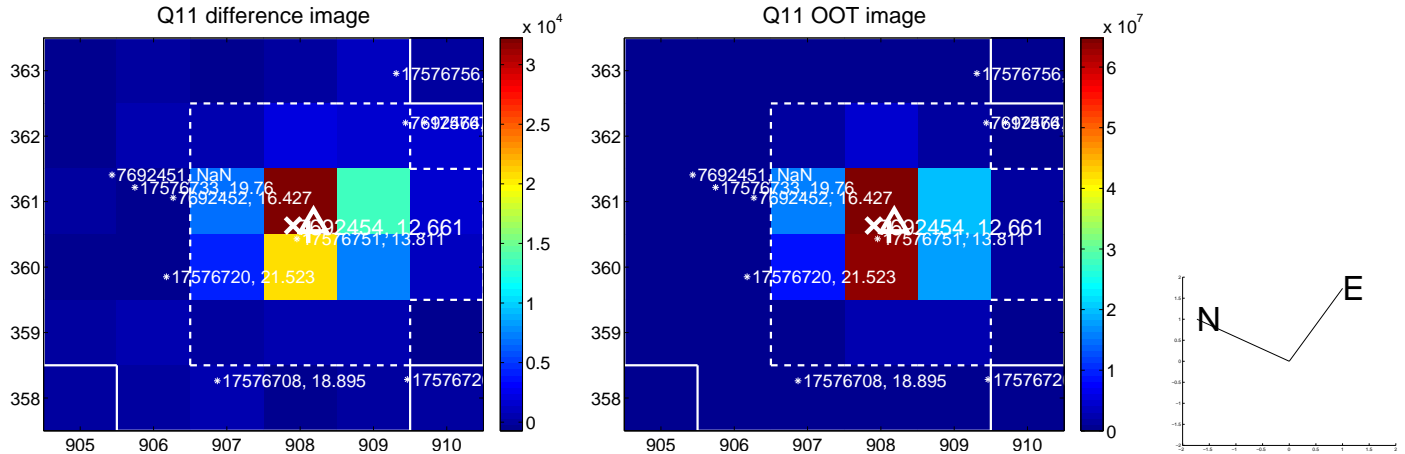
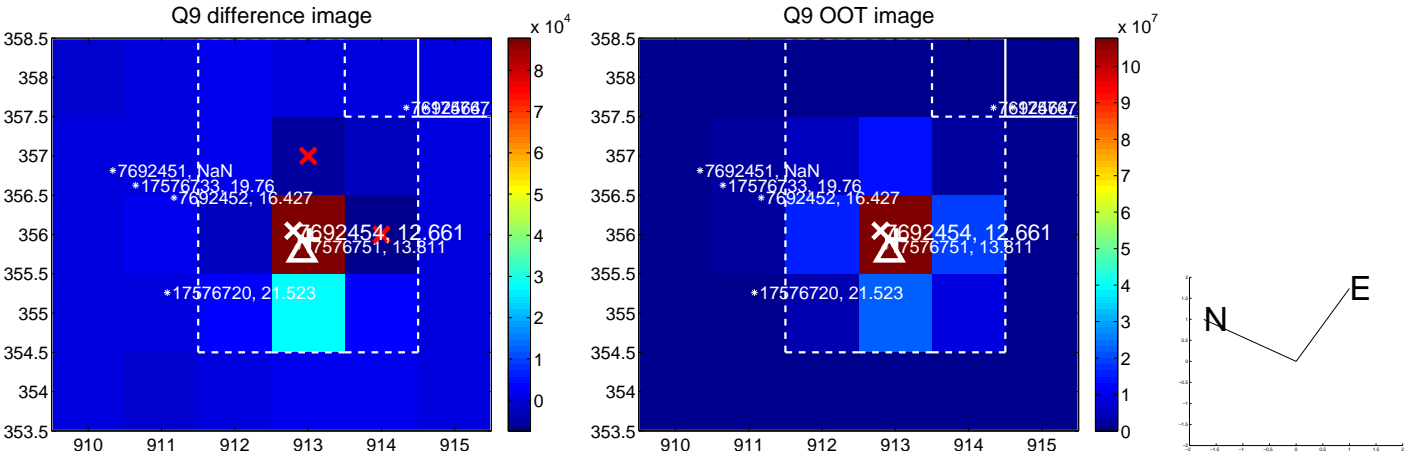
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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



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



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

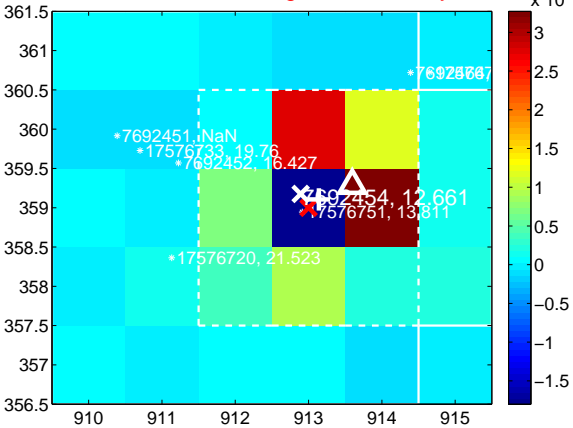
Q13 no difference image



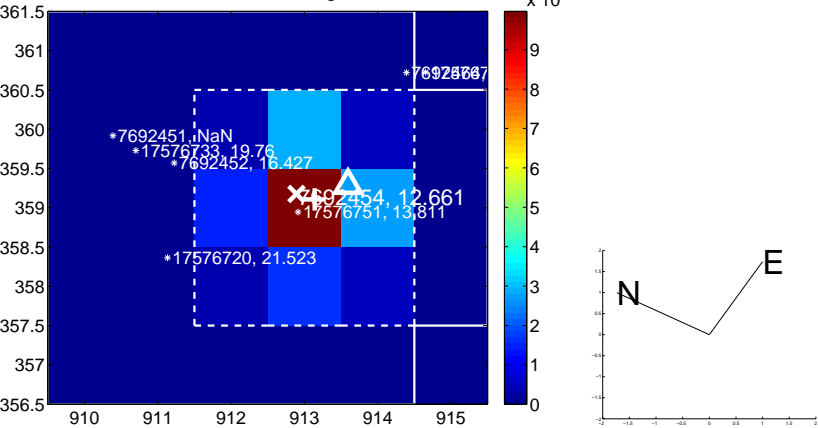
Q13 no OOT image



Q14 difference image. Poor Quality



Q14 OOT image



Q15 no difference image



Q15 no OOT image



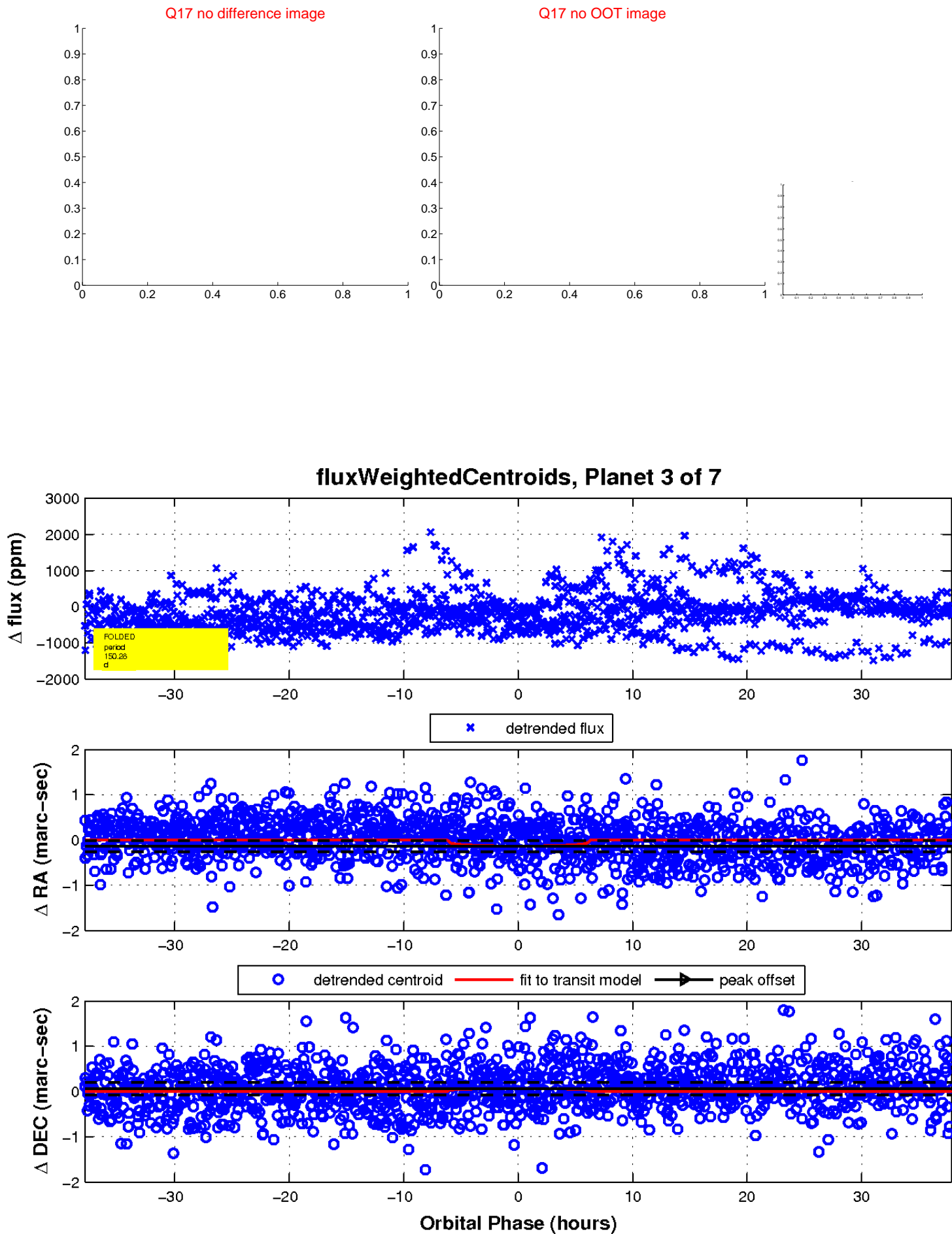
Q16 no difference image



Q16 no OOT image

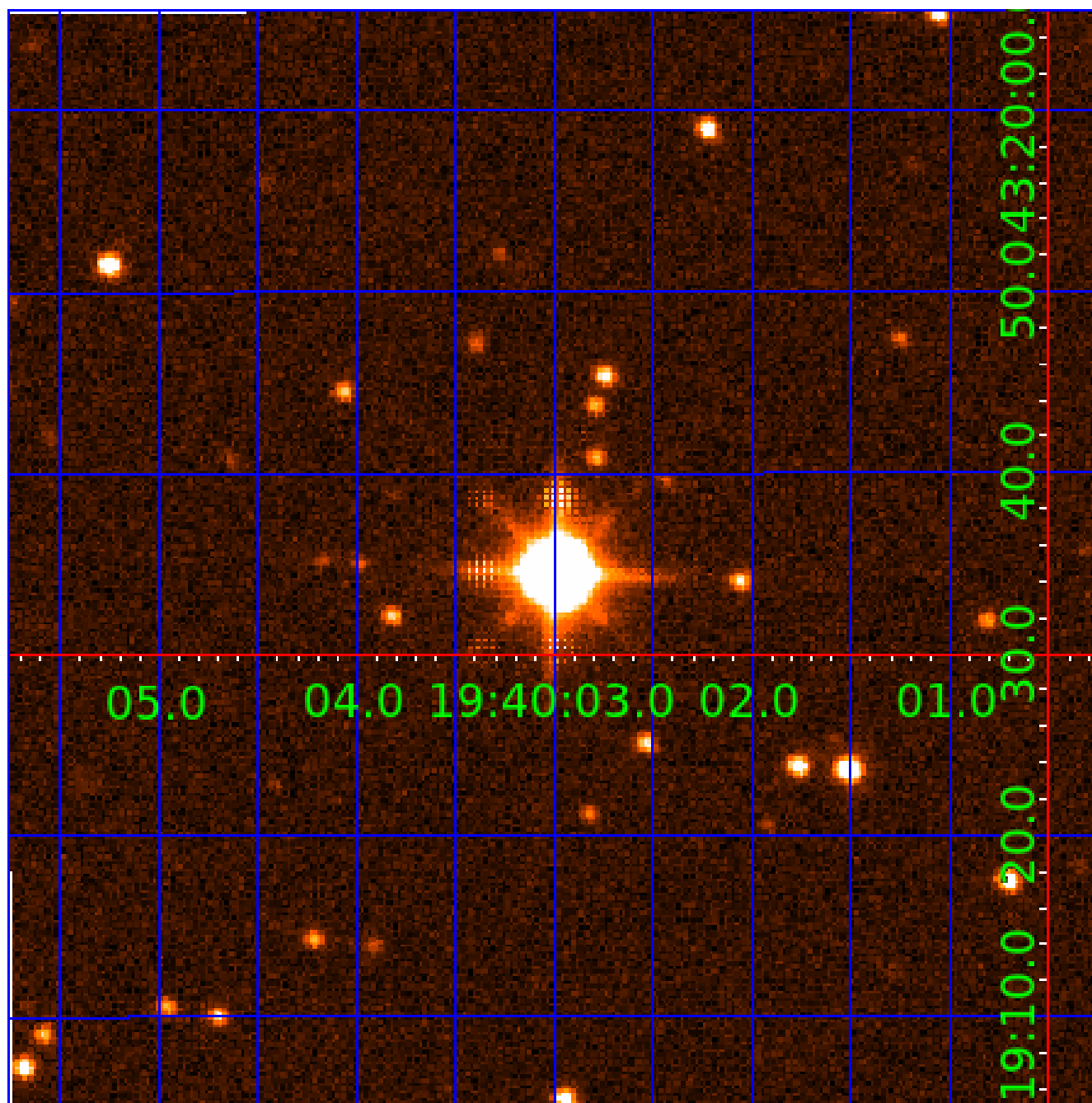


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

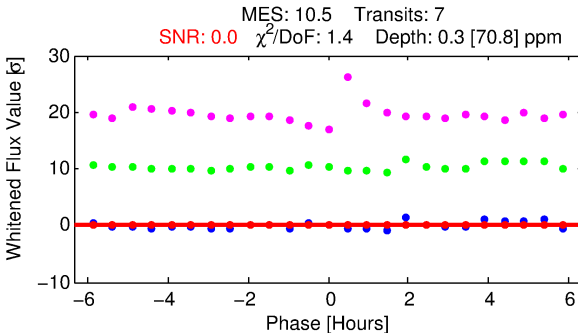
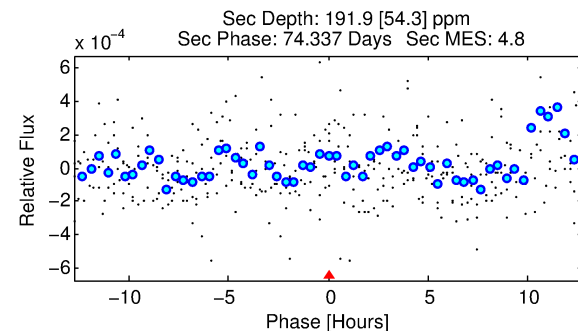
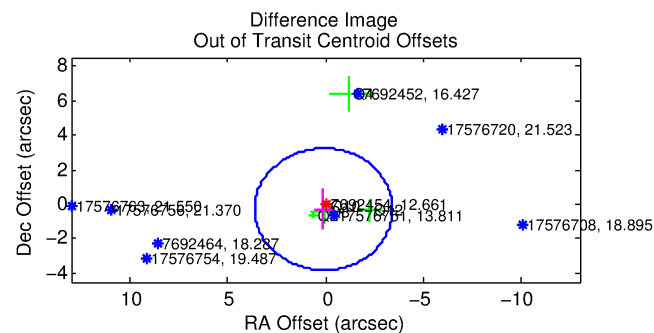
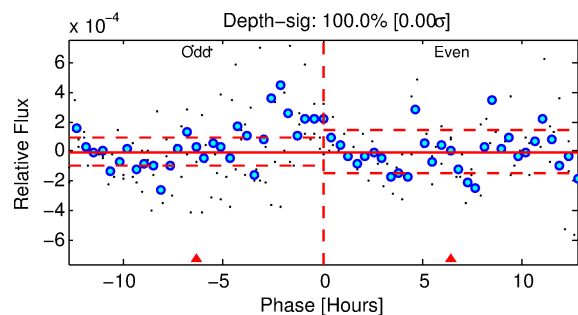
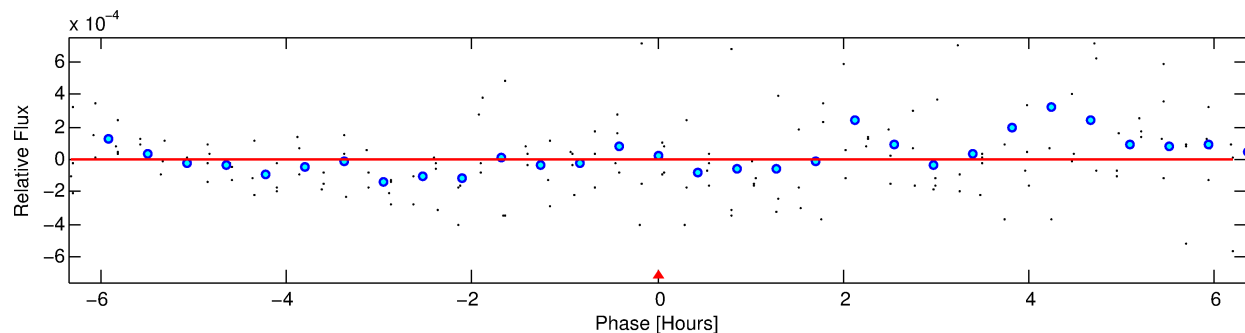
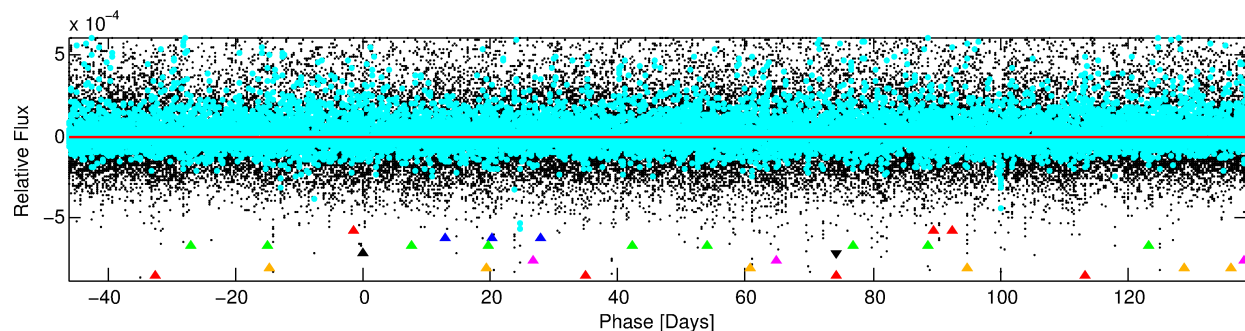
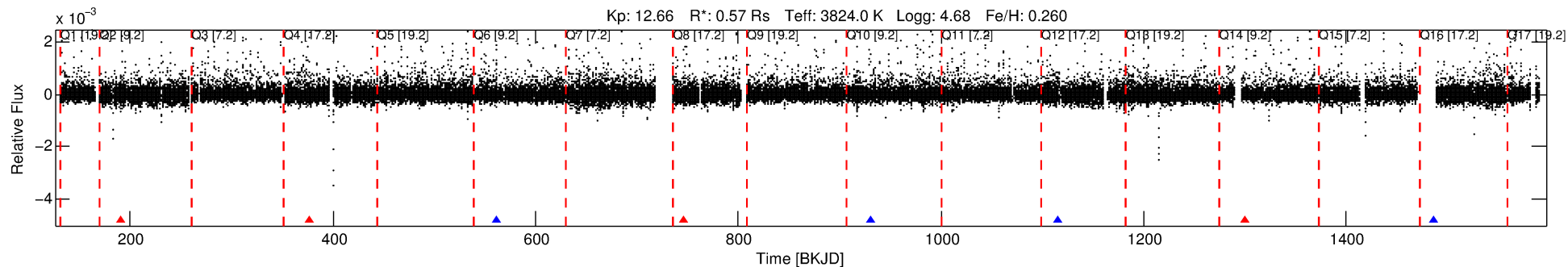
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-04

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 4 of 7 Period: 184.868 d



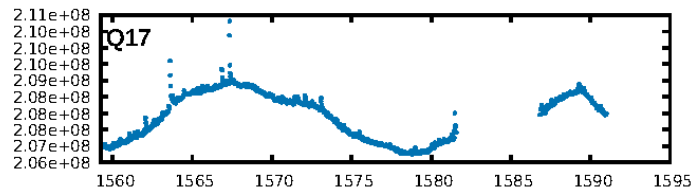
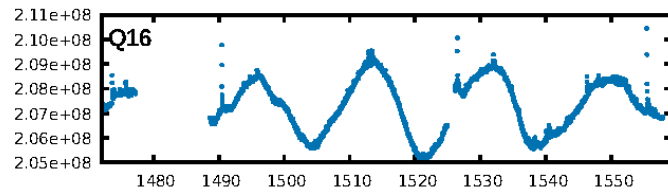
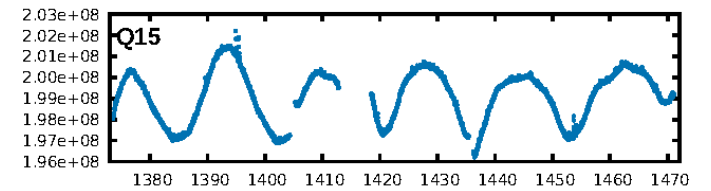
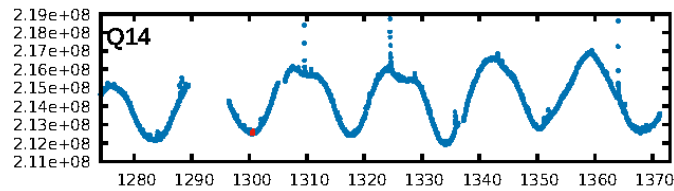
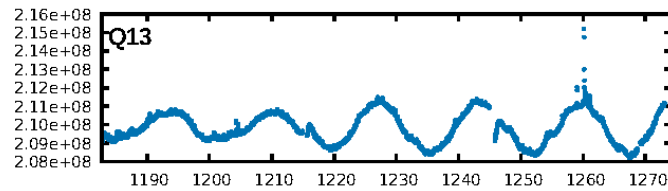
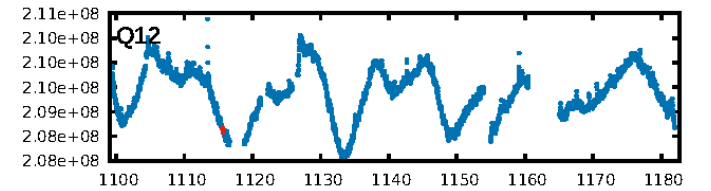
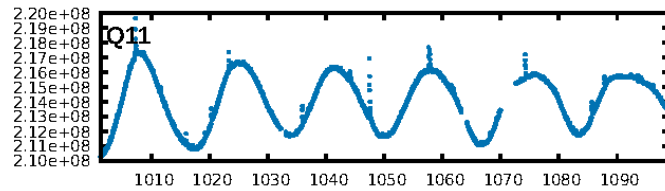
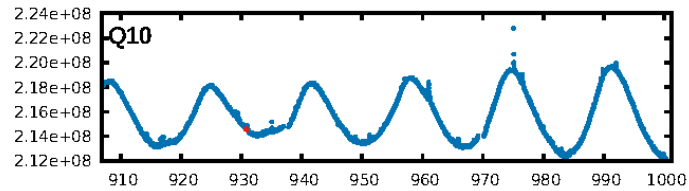
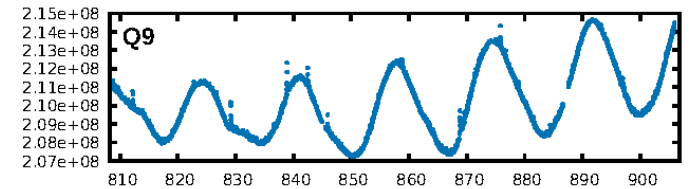
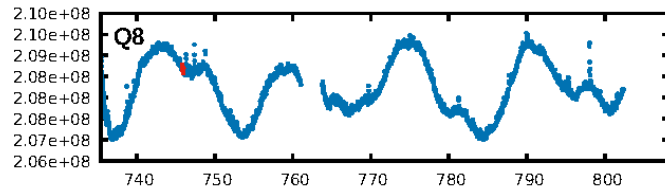
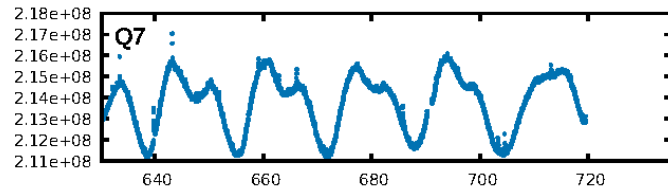
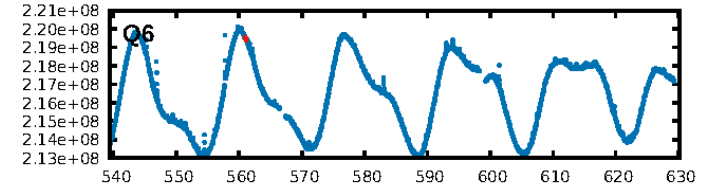
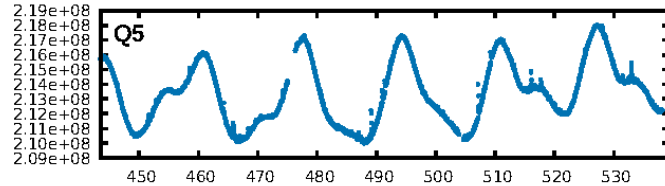
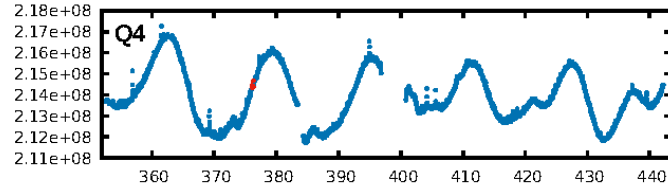
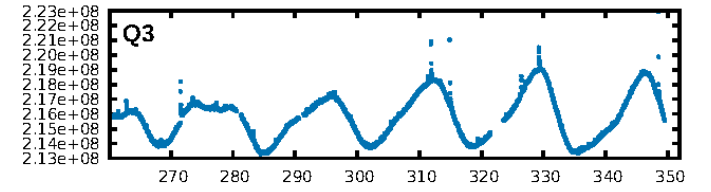
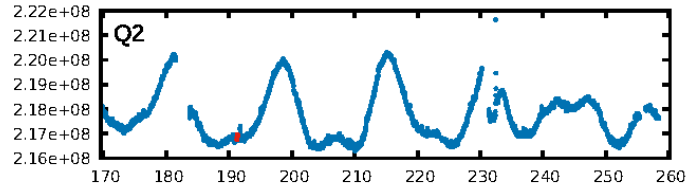
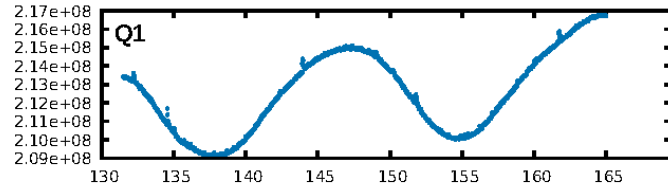
DV Fit Results:

Period = 184.86804 [1.25685] d
Epoch = 191.3102 [6.2648] BKJD
Rp/R* = 0.0005 [1.7866]
a/R* = 666.86 [7774982.02]
b = 0.01 [968944.96]
Seff = 0.23 [0.05]
Teq = 176 [9] K
Rp = 0.03 [112.10] Re
a = 0.5301 [0.0552] AU
Ag = 28499106.74 [198021819082.25] K [0.00σ]
Teffp = 19848 [34476904] K [0.00σ]

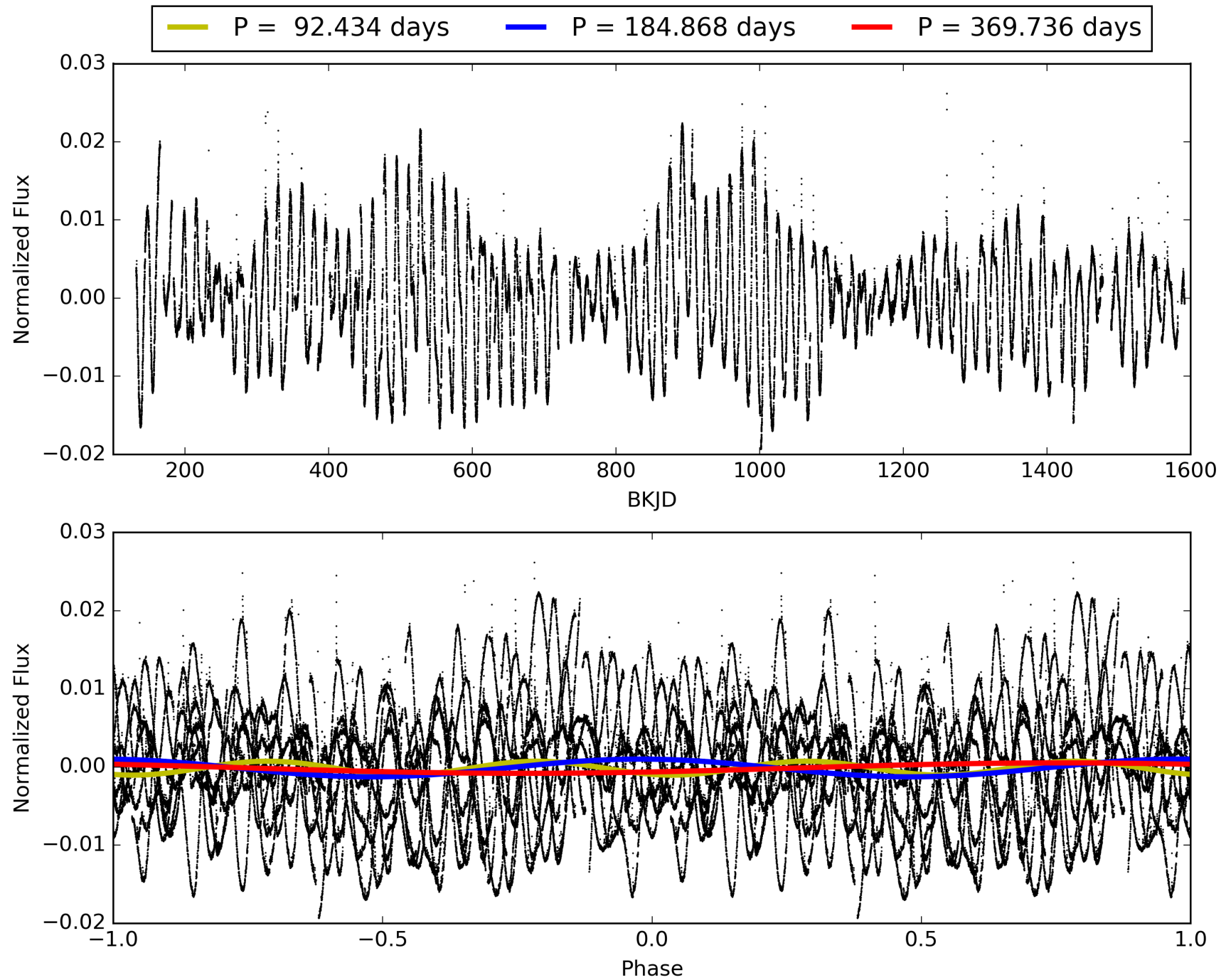
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [64.83σ]
LongPeriod-sig: 100.0% [87.51σ]
ModelChiSquare2-sig: 21.4%
ModelChiSquareGof-sig: 76.1%
Bootstrap-pfa: 3.45e-10
RollingBand-fgt: 0.43 [3/7]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.311 arcsec [0.26σ]
KicOffset-rm: 1.169 arcsec [1.13σ]
OotOffset-st: 2/0/3/0 [5]
KicOffset-st: 2/0/3/0 [5]
DiffImageQuality-fgm: 0.40 [2/5]
DiffImageOverlap-fno: 1.00 [7/7]

TCE 007692454-04, PDC Light Curves

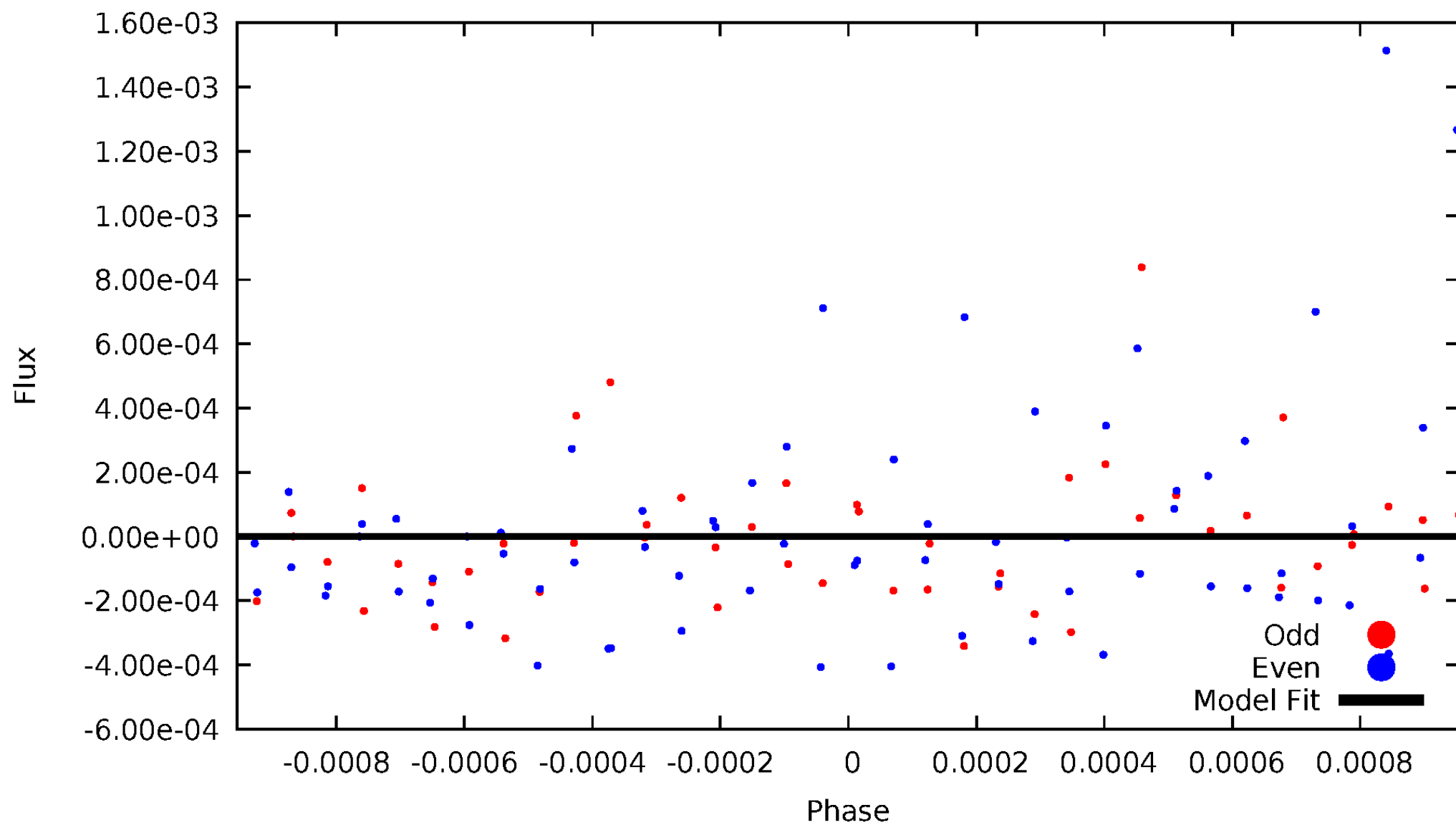


TCE 007692454-04



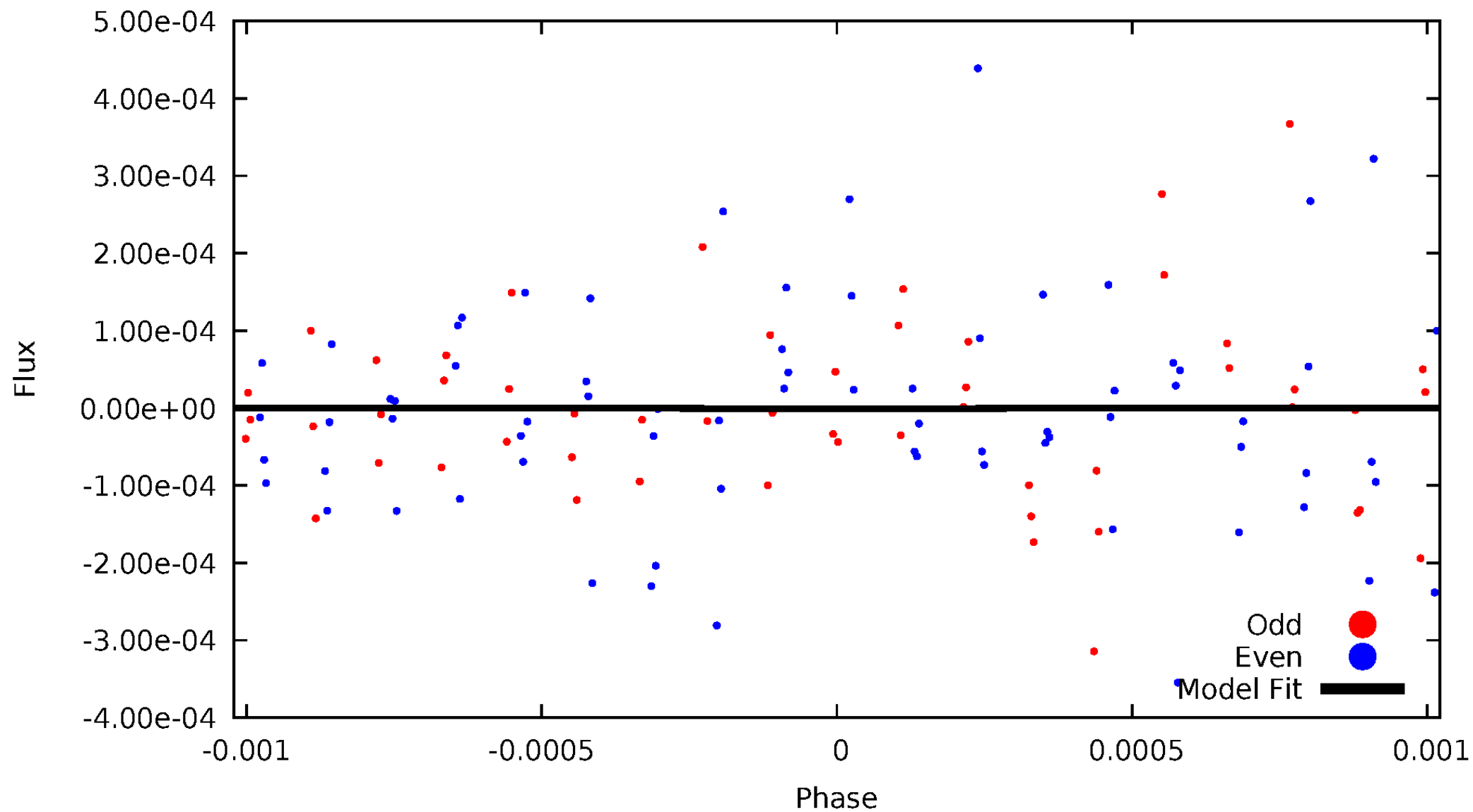
DV Odd/Even

TCE 007692454-04



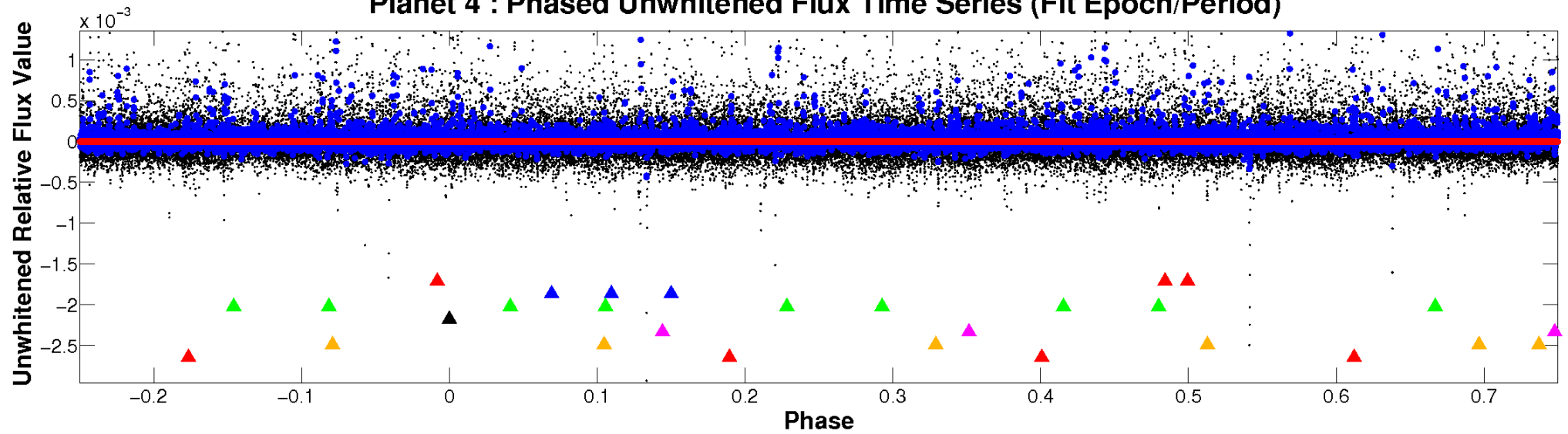
ALT Odd/Even

TCE 007692454-04

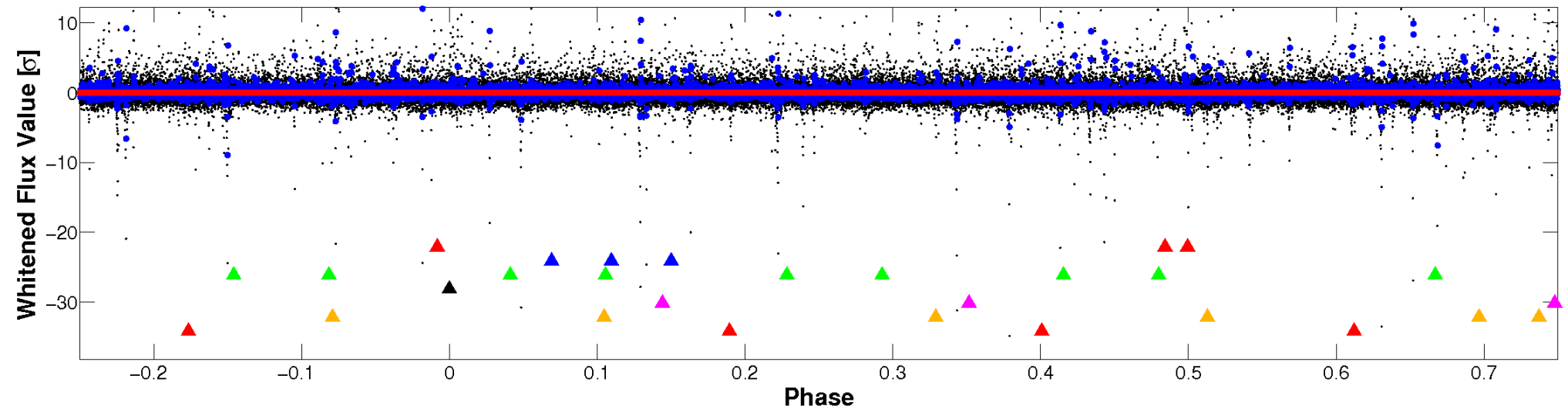


Non-Whitened Vs. Whitened Light Curve

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

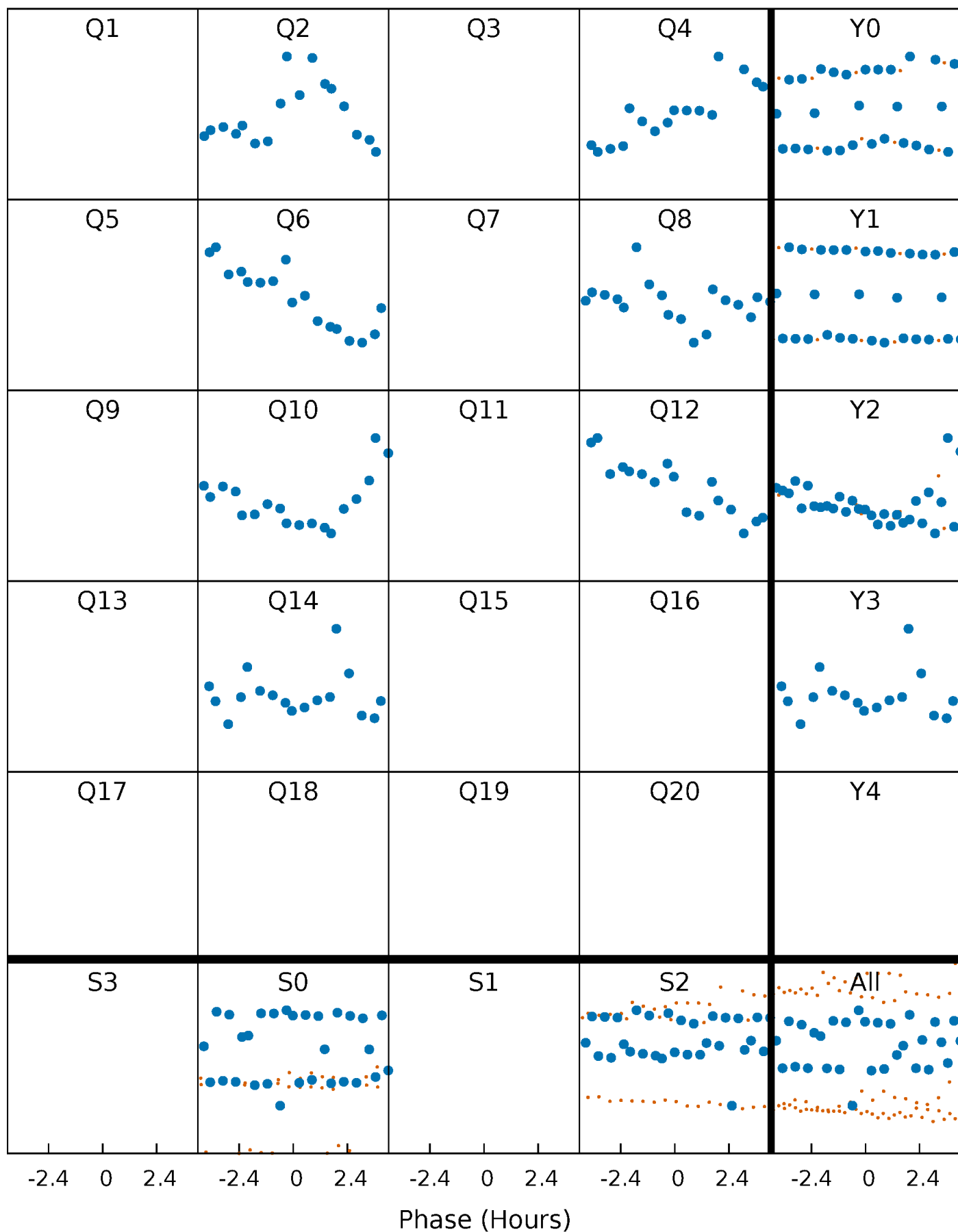


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



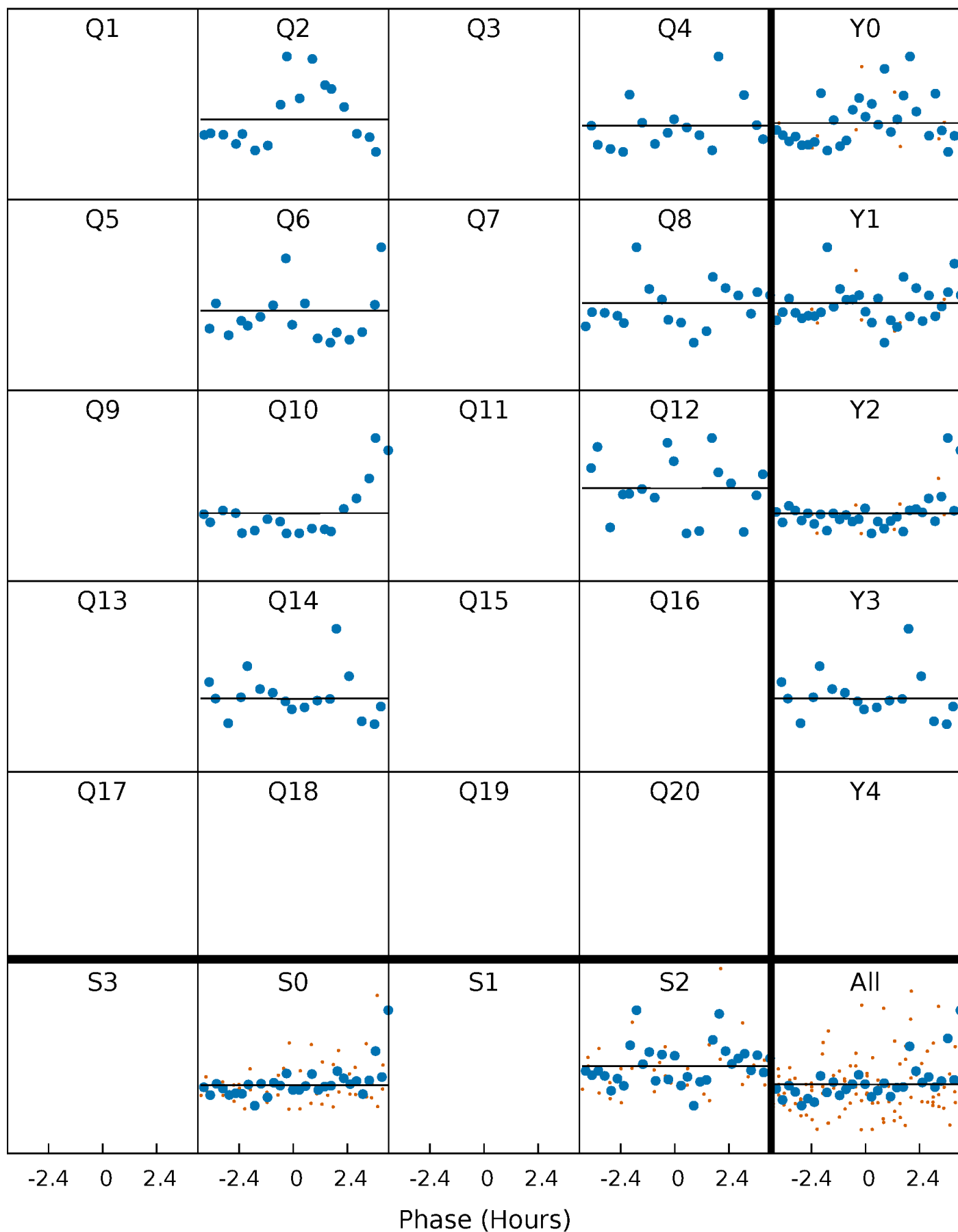
PDC Quarter-Phased Transit Curves

TCE 007692454-04 $P=184.868037$ Days $T_0=191.310191$ (BKJD)



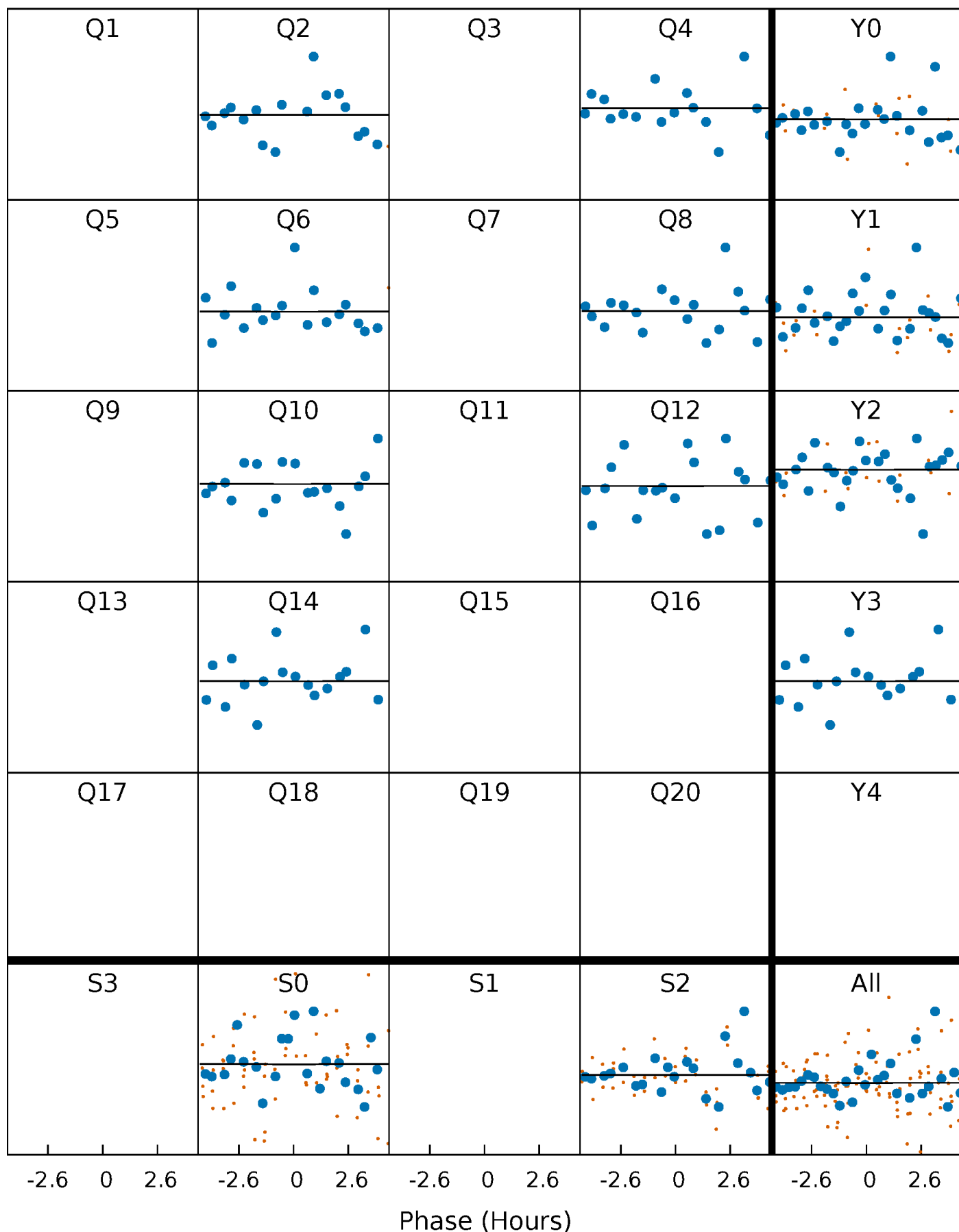
DV Quarter-Phased Transit Curves

TCE 007692454-04 P=184.868037 Days $T_0=191.310191$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

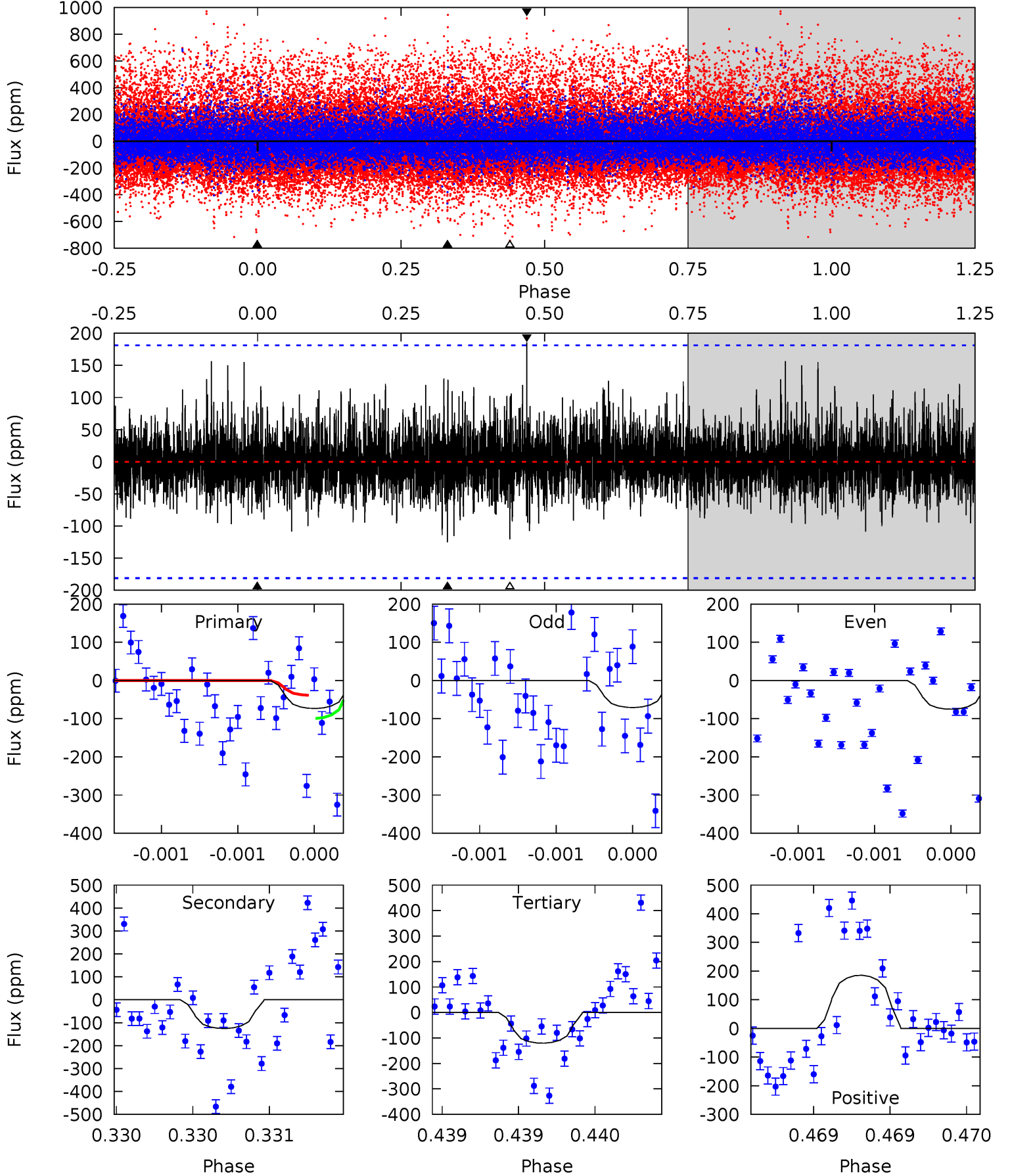
TCE 007692454-04 P=184.862417 Days $T_0=191.299601$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-04, P = 184.868037 Days, E = 6.442154 Days

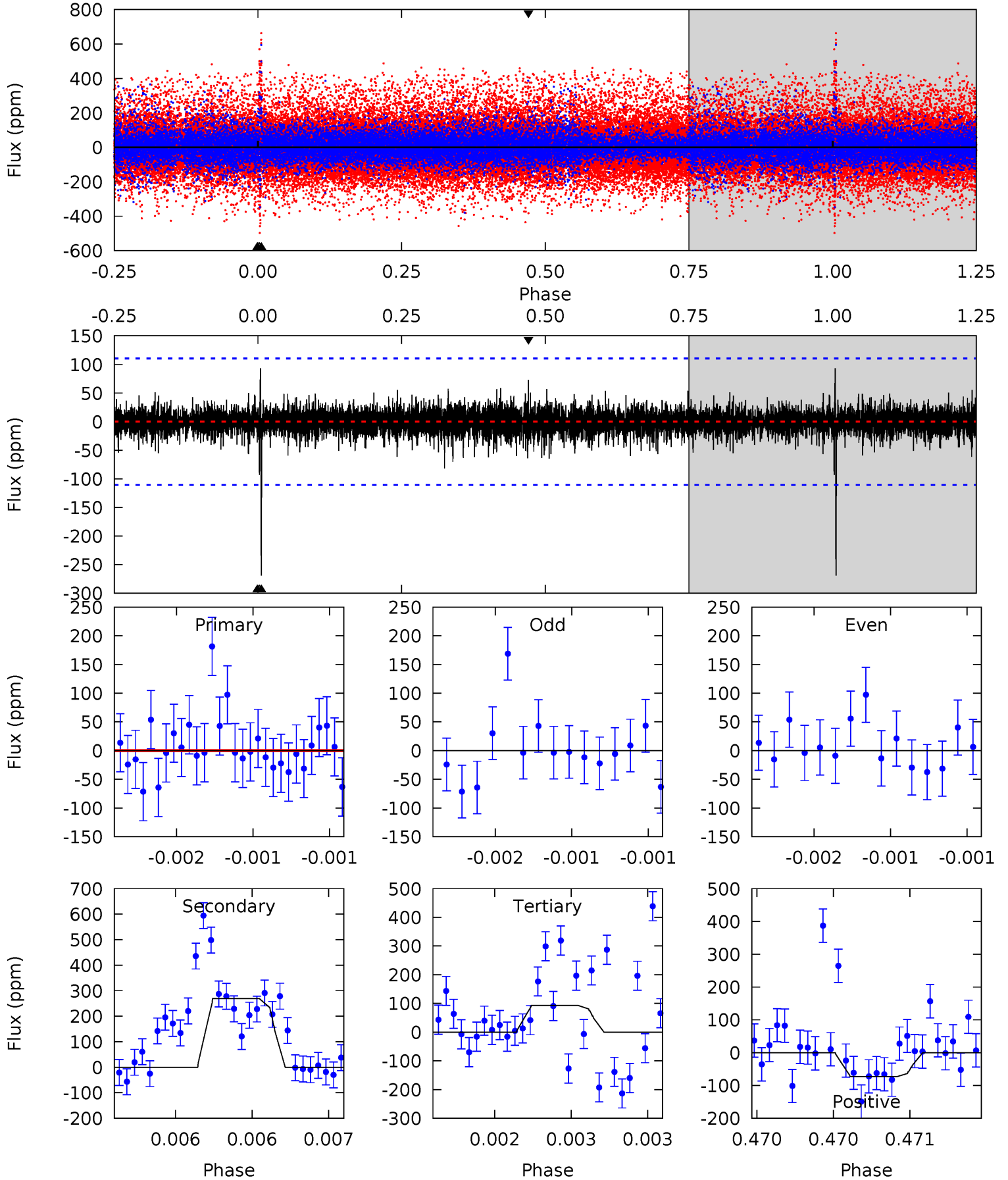
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.25	3.84	3.69	5.69	5.56	3.45	1.05	-1.44	-3.44	0.15	-1.85	0.07	0.26	0.60	0



Alt Model-Shift Uniqueness Test

007692454-04, P = 184.862417 Days, E = 6.437184 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.60	13.5	4.69	3.68	5.56	3.45	0.81	-3.09	-2.08	8.84	9.85	0.09	1.11	0.26	0.48



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-125 ± 33	$75.41^{+75.89}_{-53.42}$	242^{+9}_{-11}	1352^{+311}_{-167}	$3.409^{+36.910}_{-2.607}$
Alt.	-269 ± 20	$75.64^{+82.57}_{-54.72}$	243^{+8}_{-11}	1442^{+356}_{-170}	$7.334^{+88.992}_{-5.671}$

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

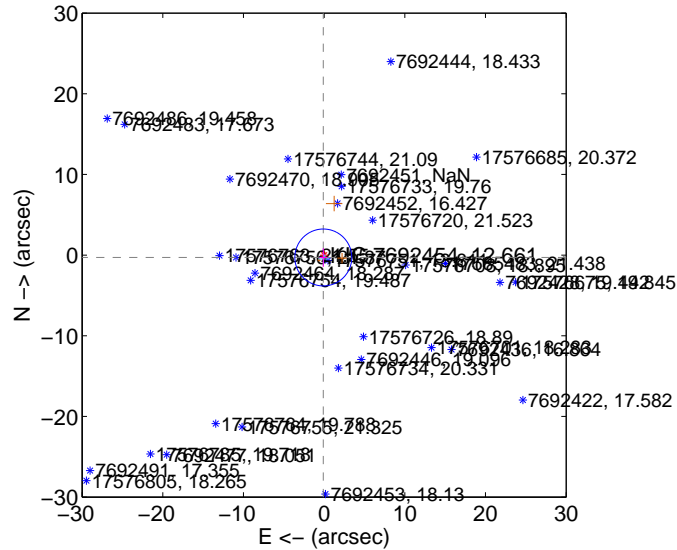
Supplemental centroid analysis for 007692454-04. Kepler magnitude: 12.66. Transit SNR 0.01

There are 2 quarters with good PRF difference image offsets

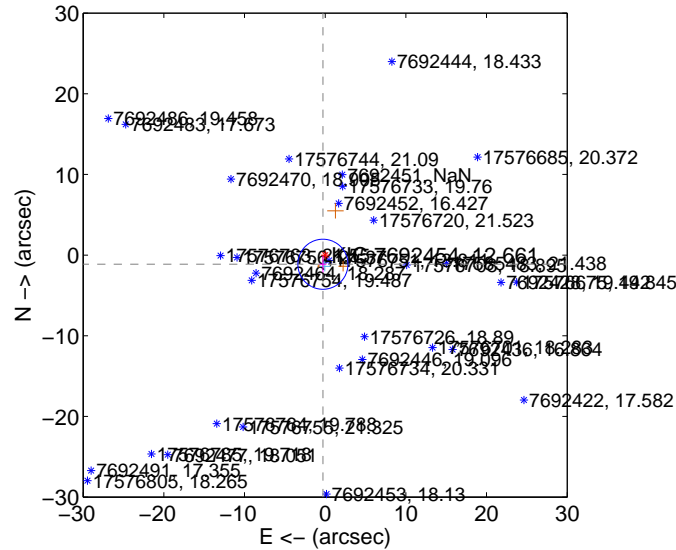
The direct PRF centroid is offset from the target star catalog position by about 1.00 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.311 ± 1.176	0.26	0.102 ± 0.468	-0.294 ± 1.155
PRF-fit source offset from KIC position	1.169 ± 1.034	1.13	0.282 ± 0.424	-1.134 ± 1.020
photometric centroid source offset	—	—	—	—

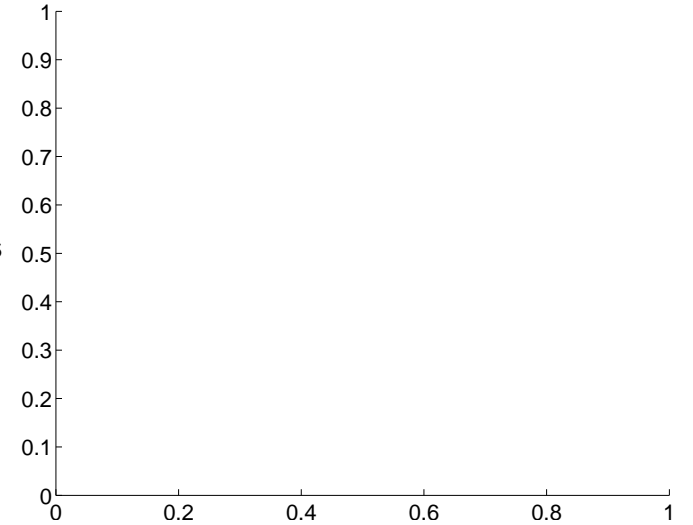
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

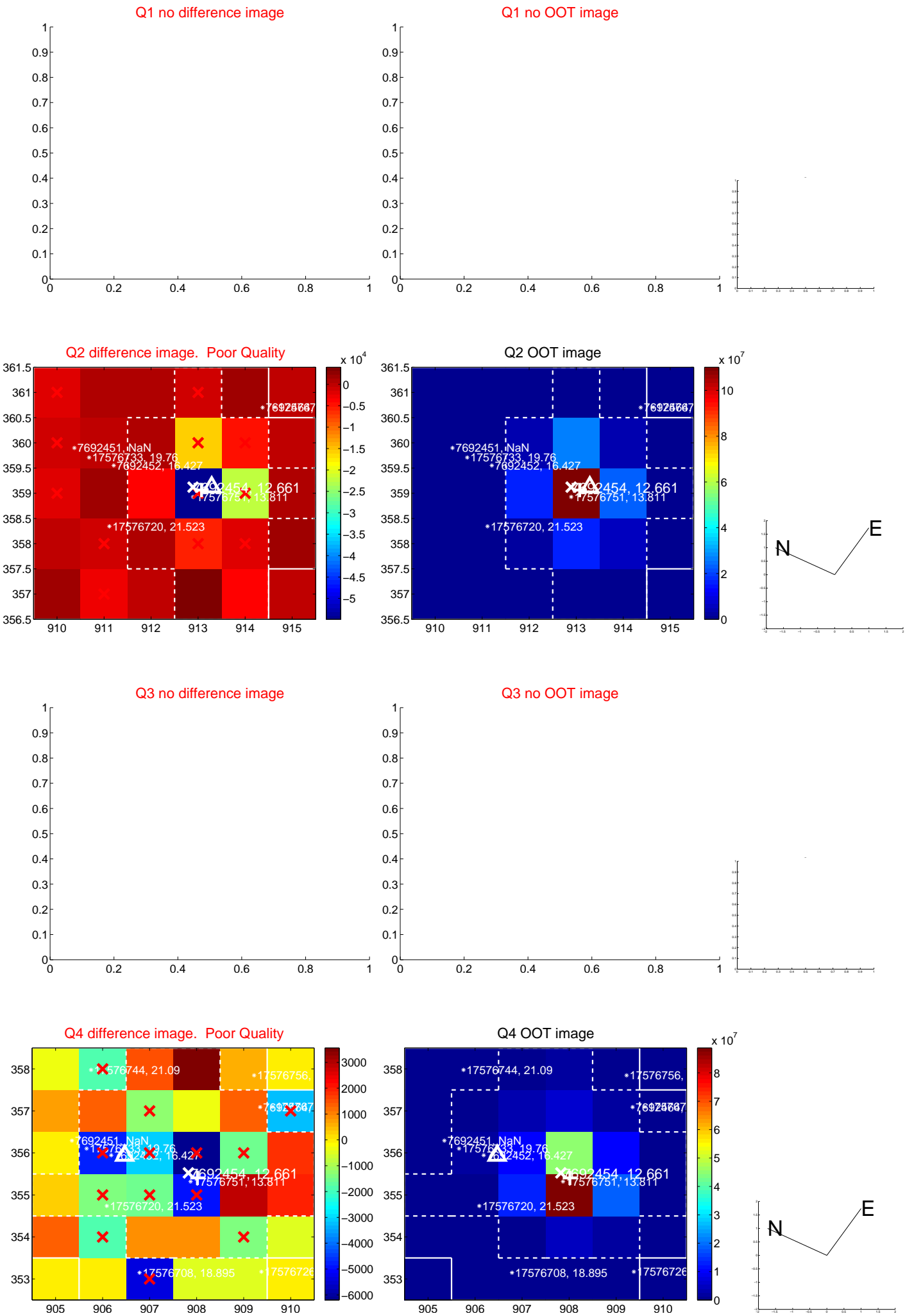


There are no photometric centroids

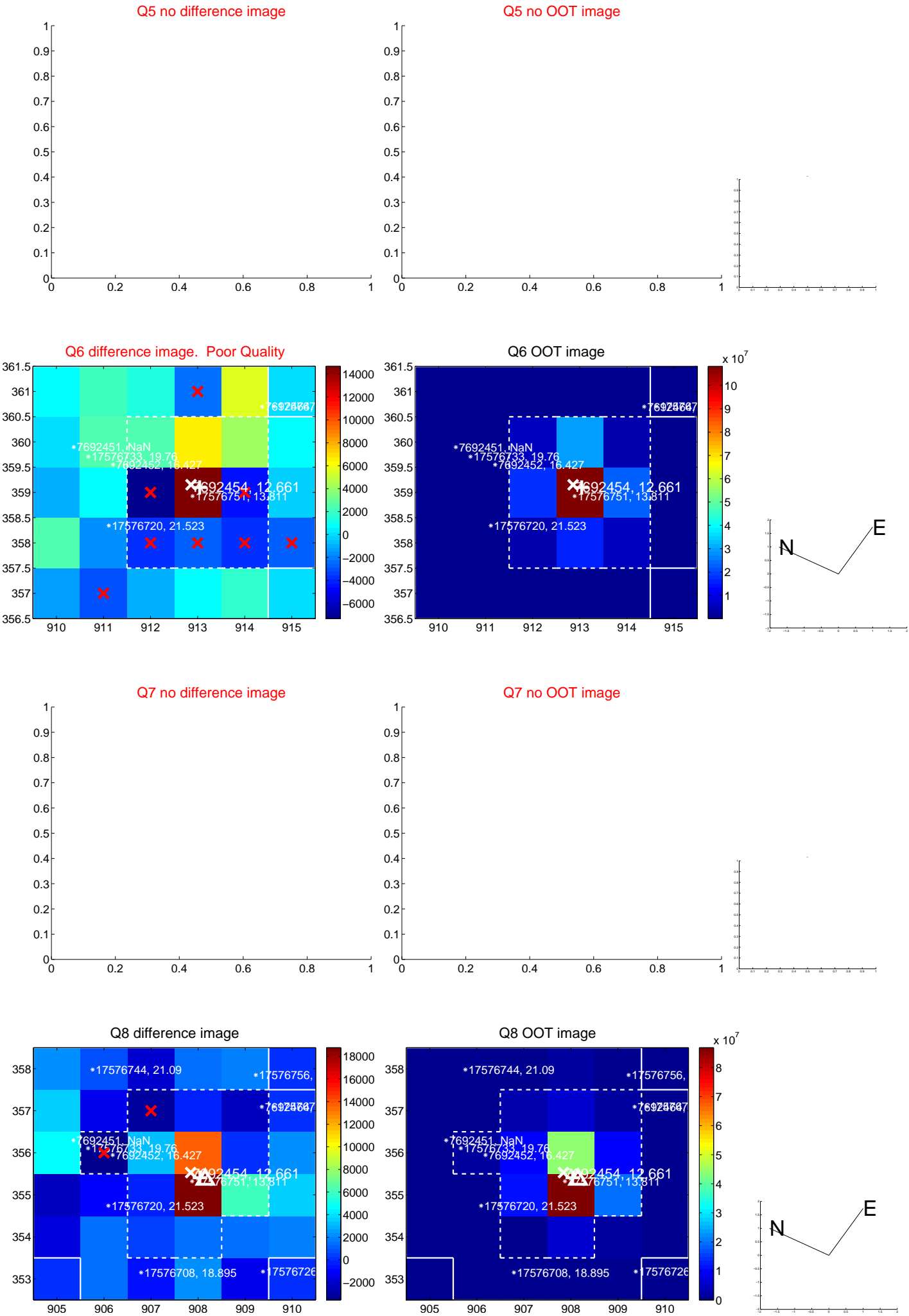


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

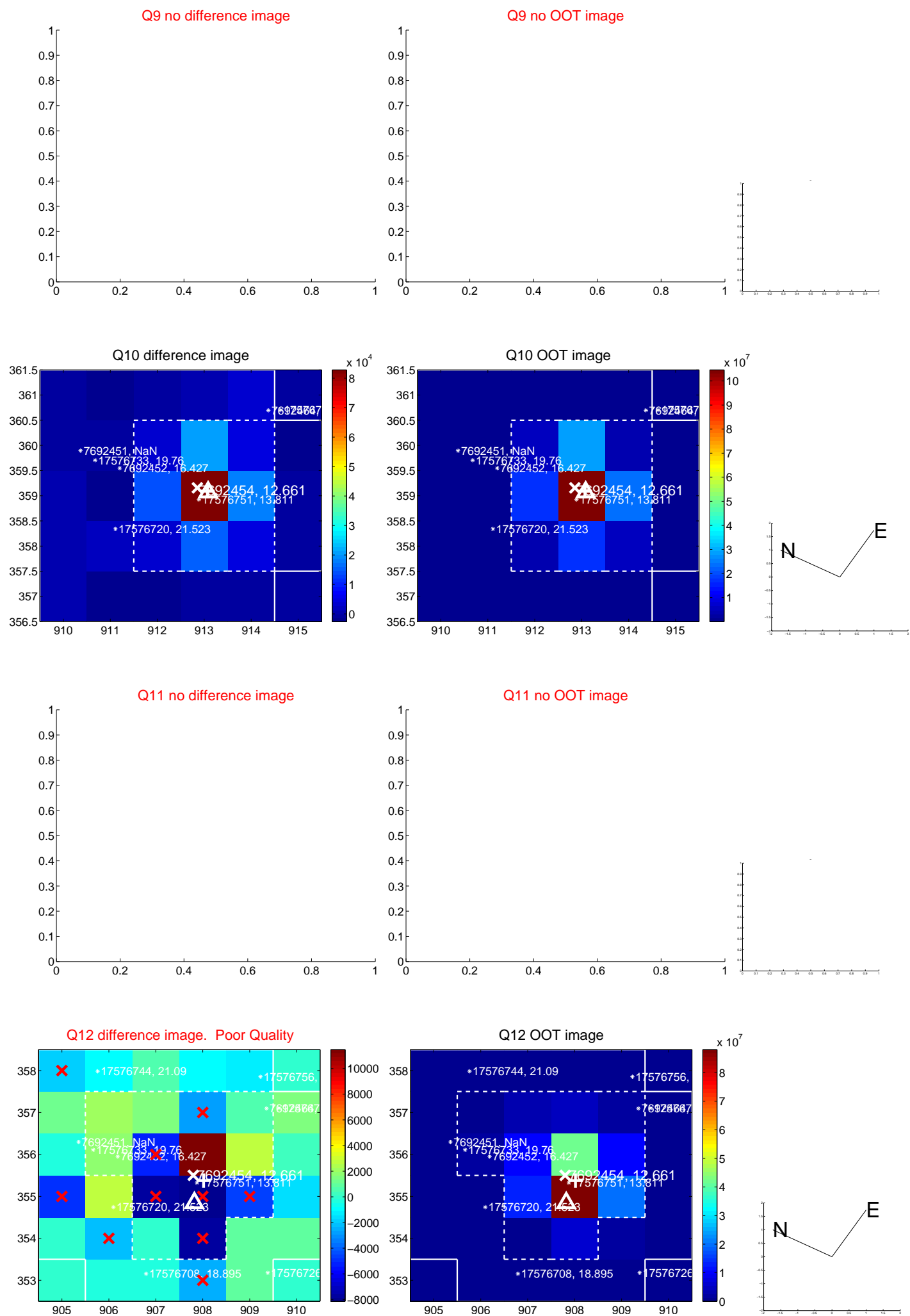
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



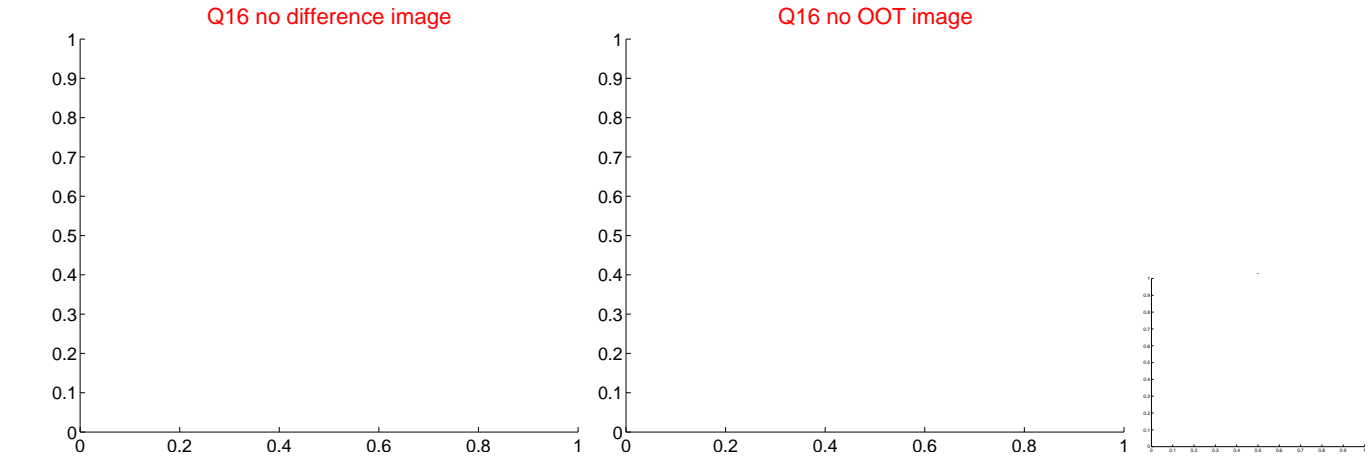
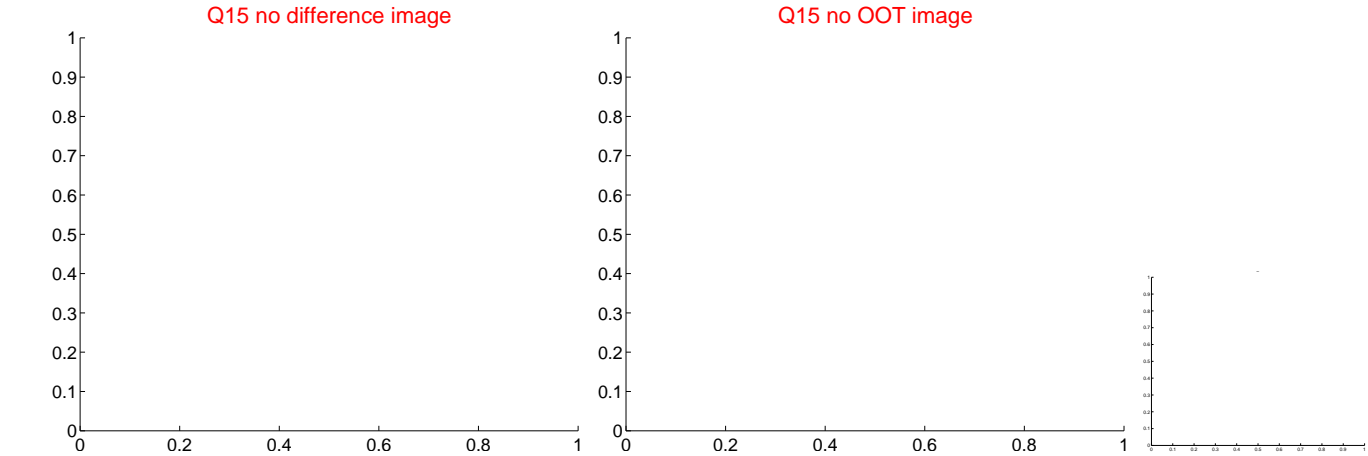
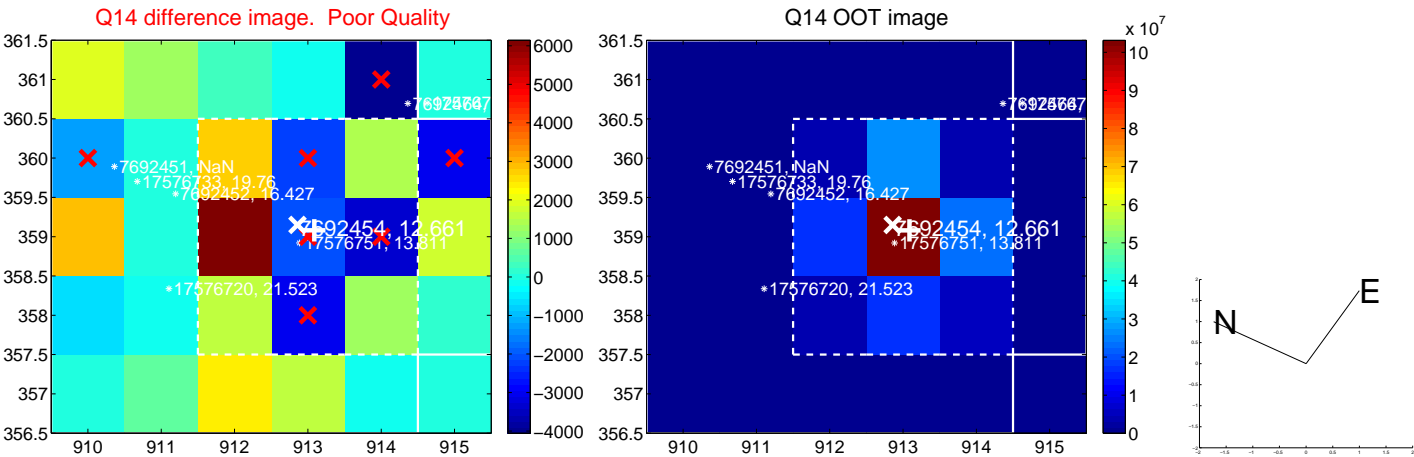
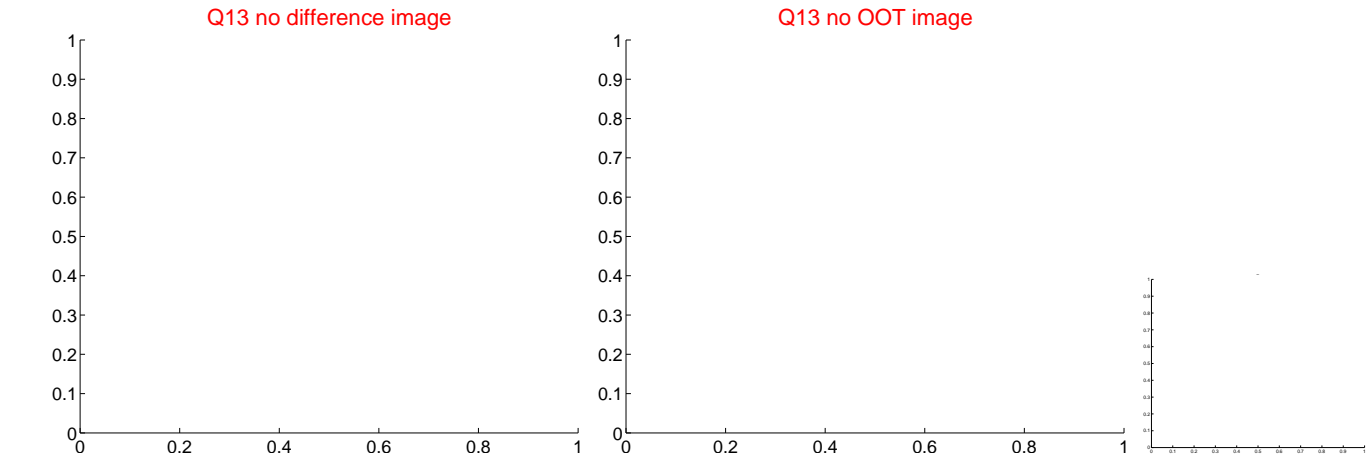
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



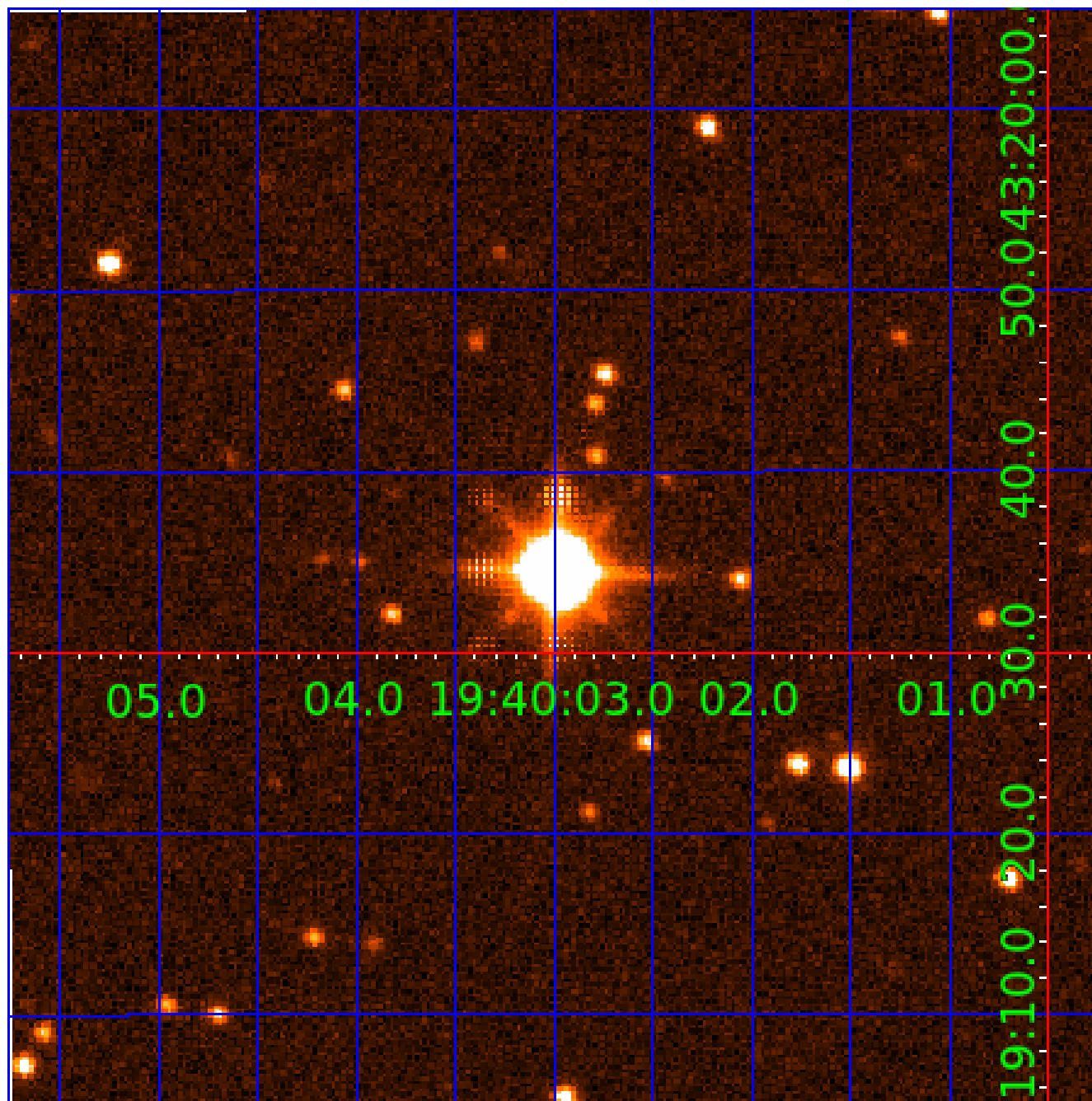
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

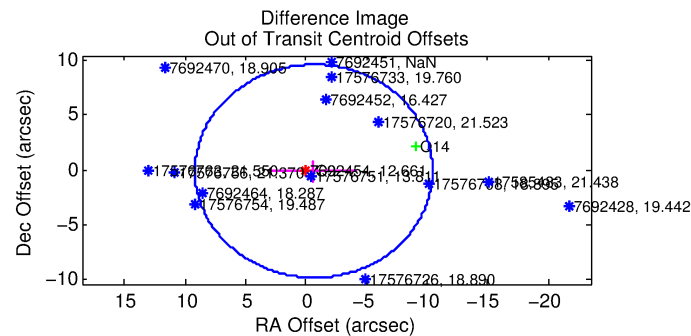
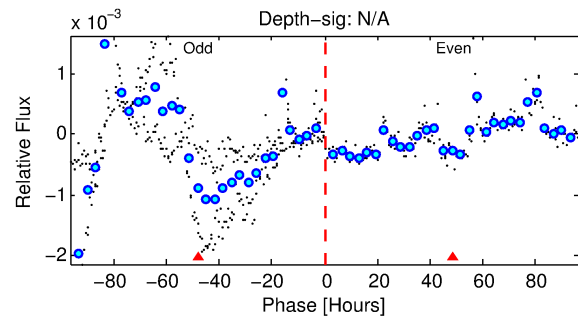
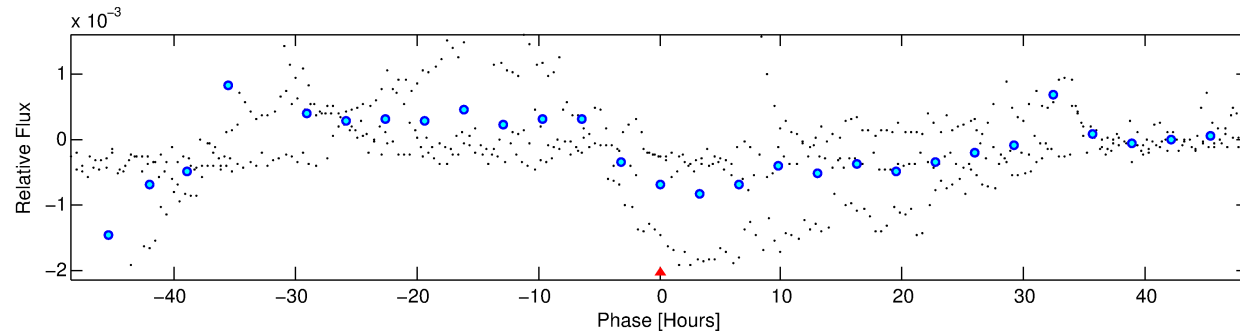
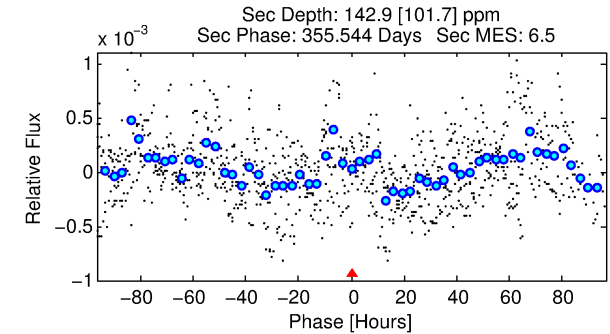
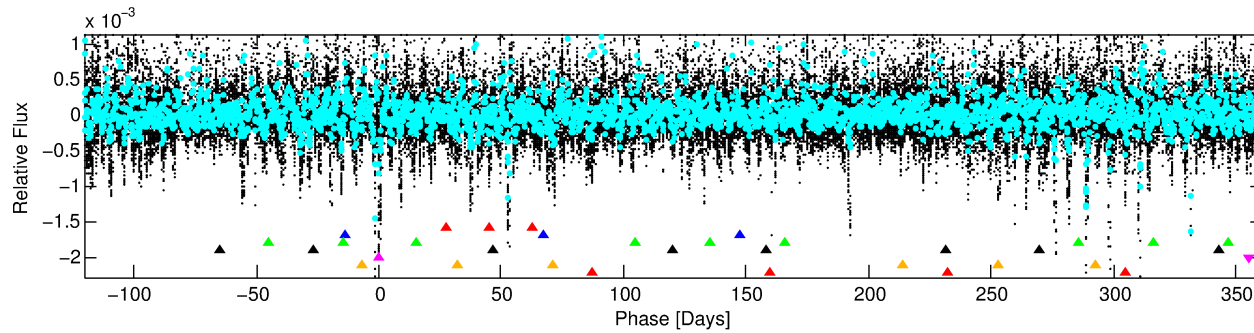
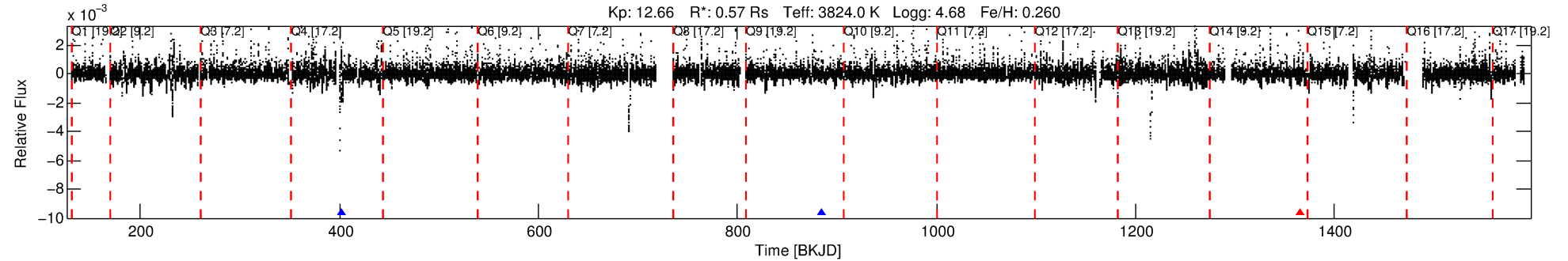
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-05

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 5 of 7 Period: 481.340 d



TPS TCE Results:

Period = 481.33975 d
Epoch = 402.8346 BKJD

DV fit results are unavailable

DV Diagnostic Results:

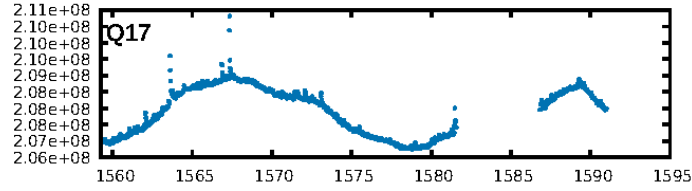
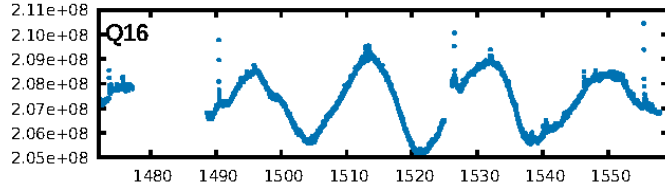
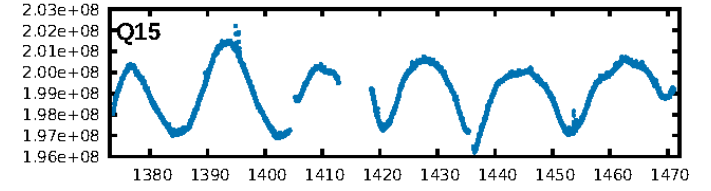
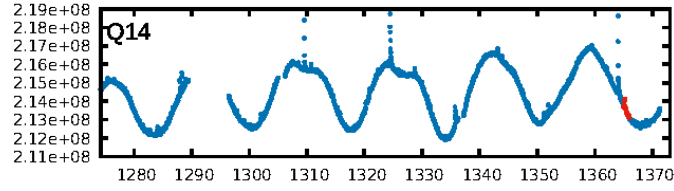
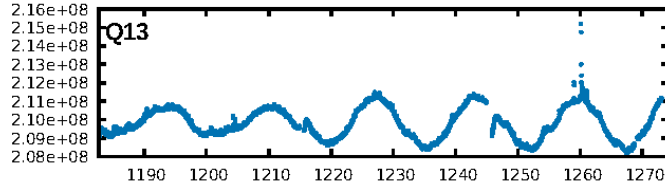
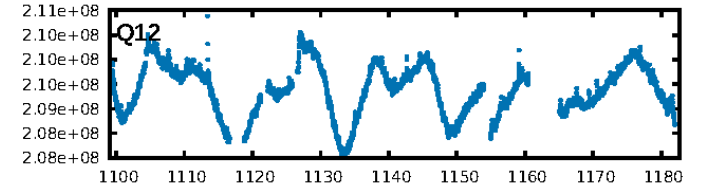
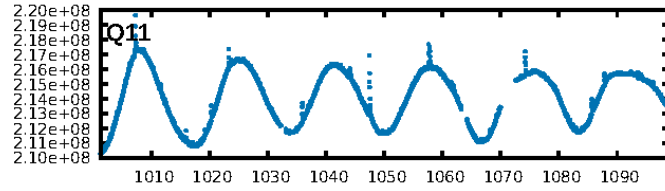
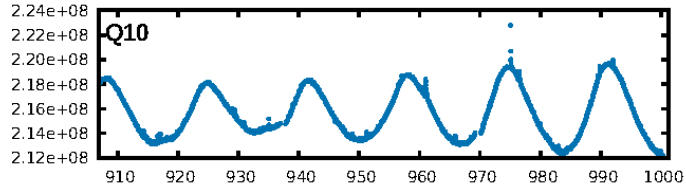
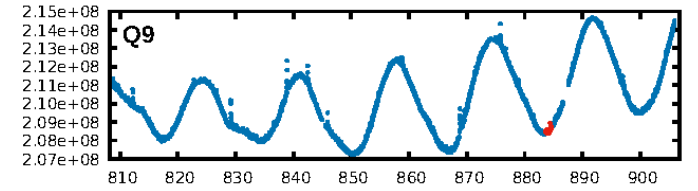
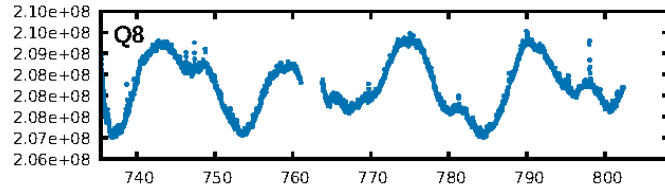
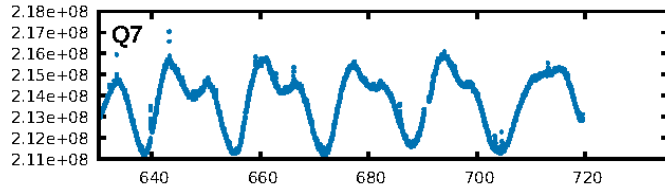
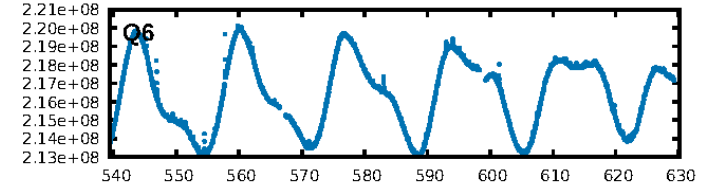
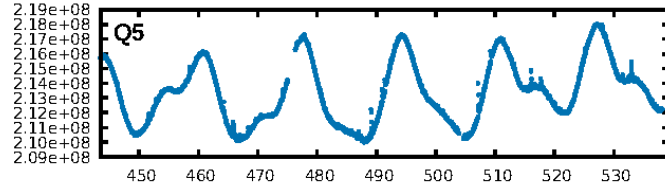
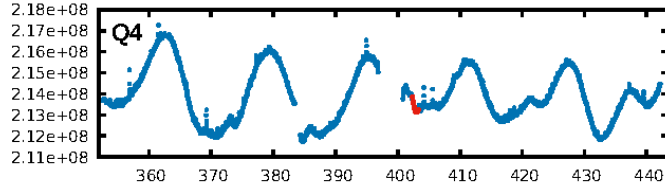
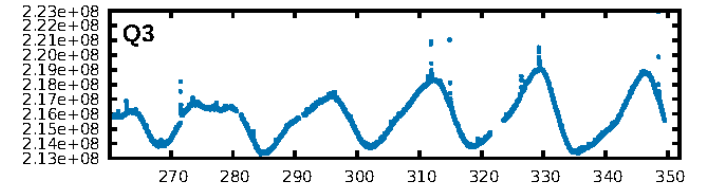
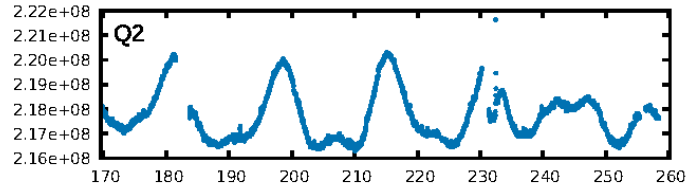
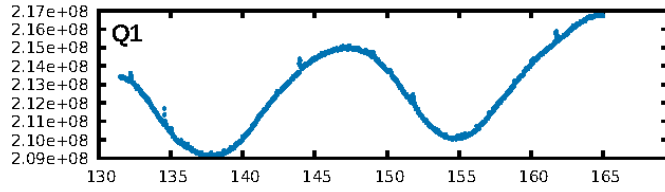
ShortPeriod-sig: 100.0% [30.89 σ]
LongPeriod-sig: 100.0% [131.52 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.36e-08
RollingBand-fgt: 0.67 [2/3]
GhostDiagnostic-chr: -0.01748

Centroid-sig: 24.1%
Centroid-so: 1.184 arcsec [2.61 σ]
OotOffset-rm: 0.643 arcsec [0.20 σ]
KicOffset-rm: 1.224 arcsec [1.65 σ]
OotOffset-st: 1/0/0/1 [2]
KicOffset-st: 1/0/0/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [2/2]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:58:30 Z

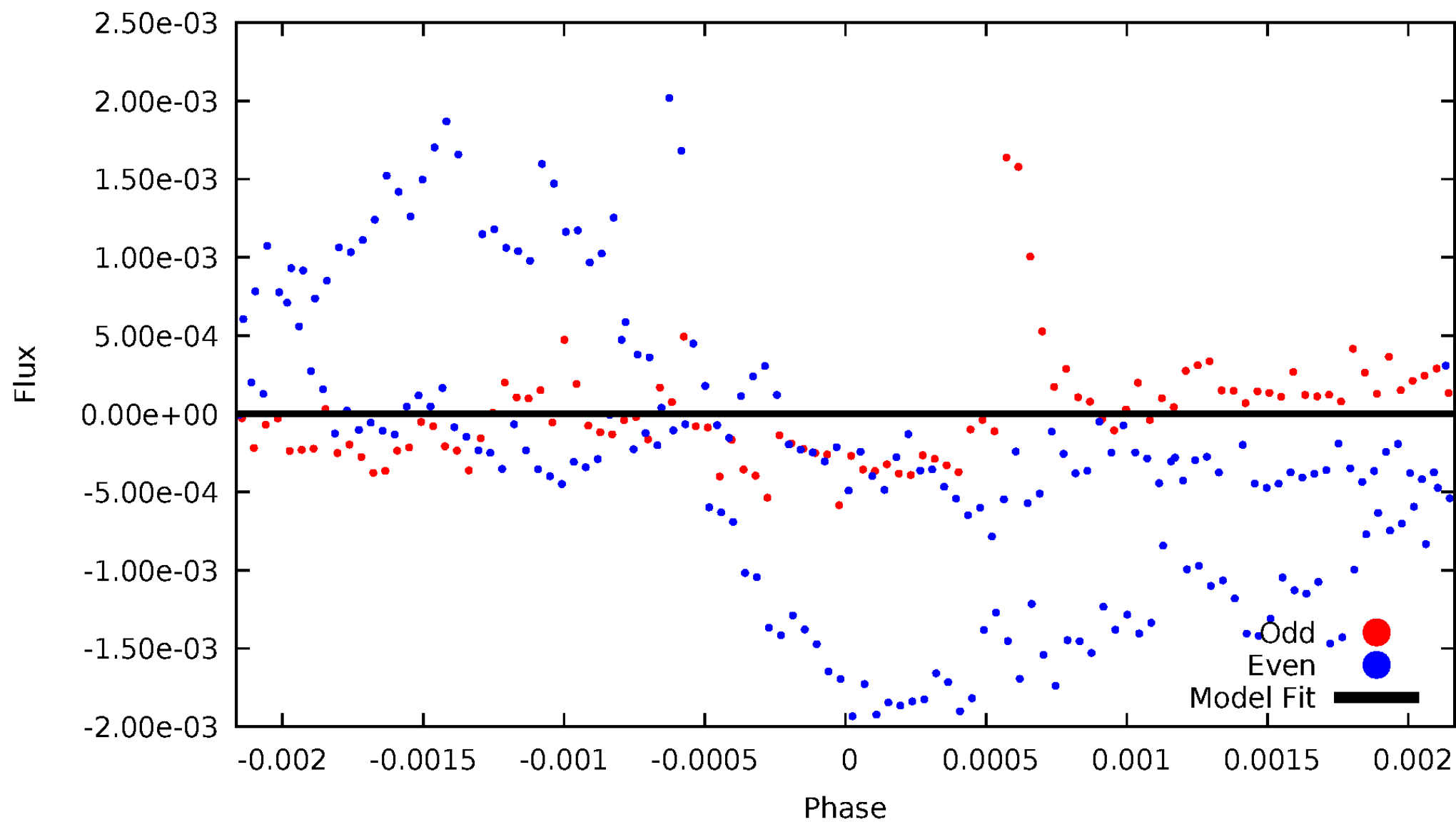
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007692454-05, PDC Light Curves



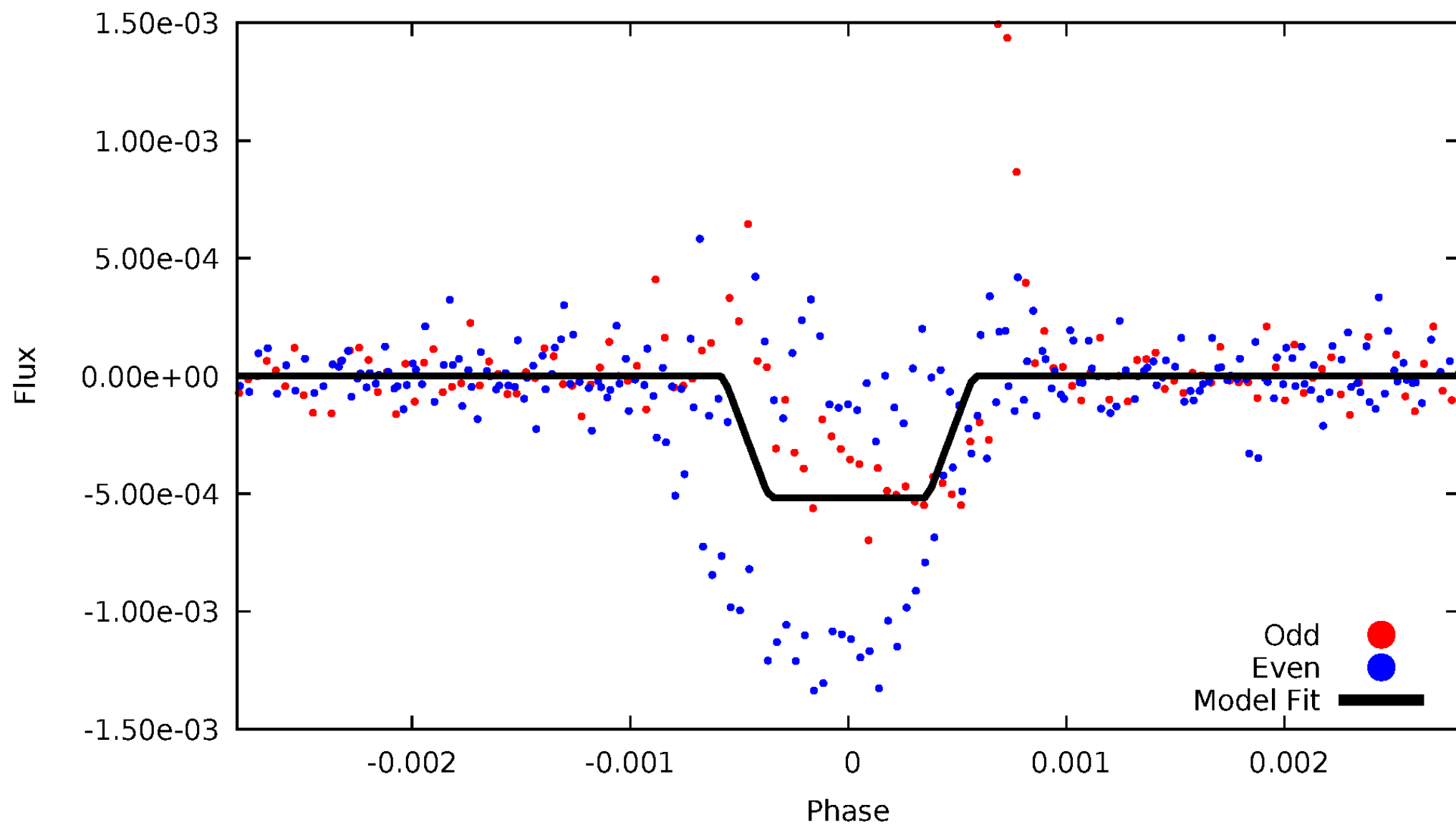
DV Odd/Even

TCE 007692454-05

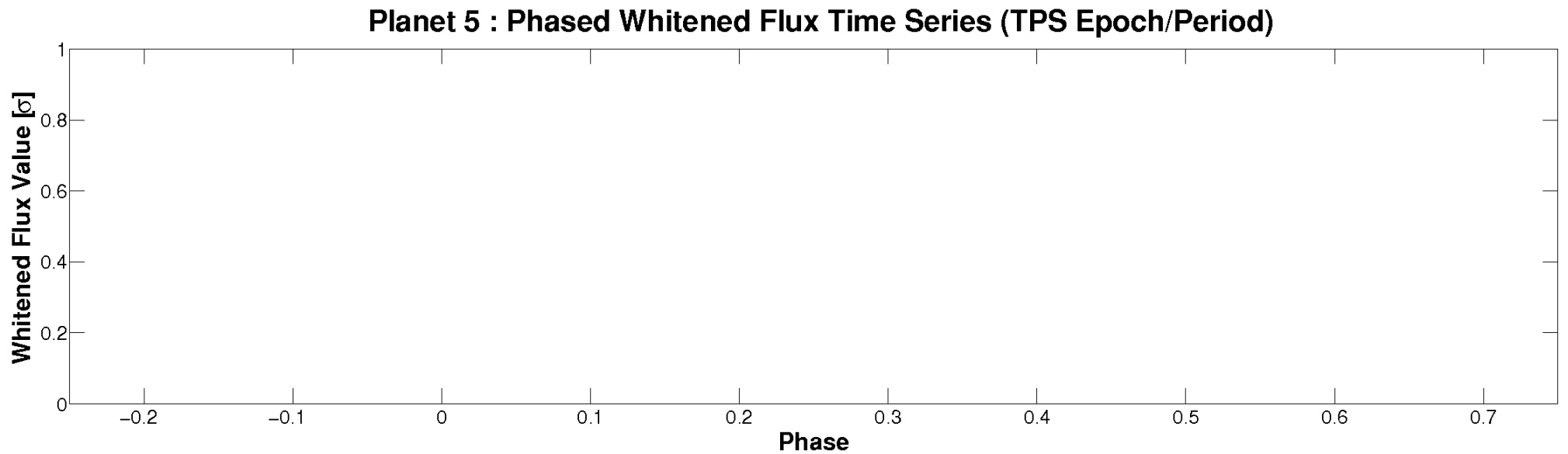
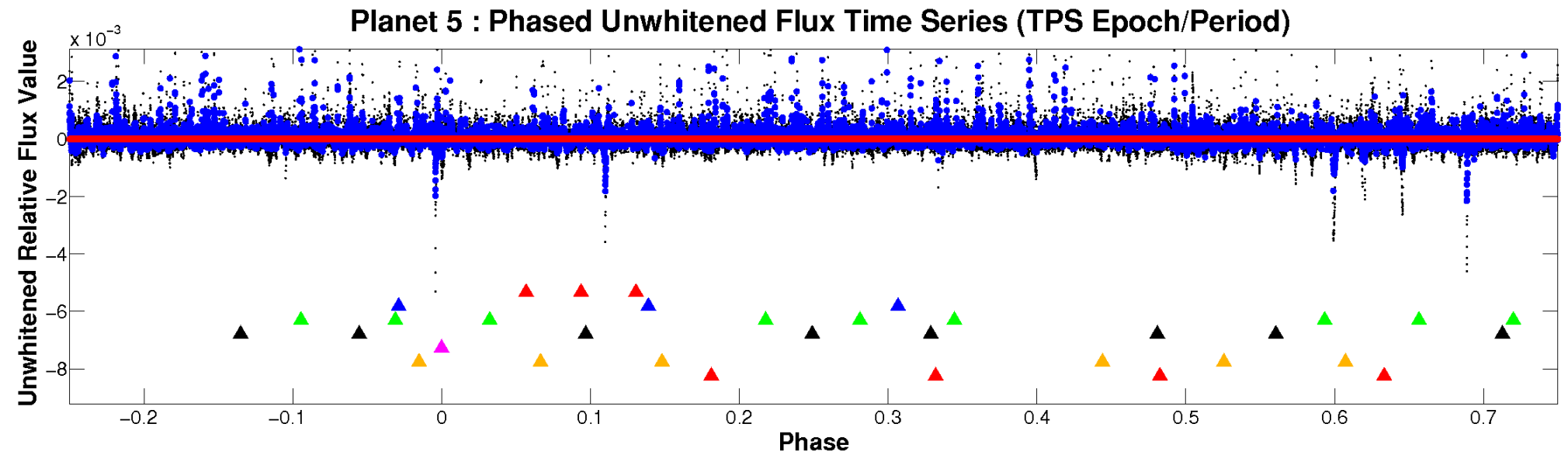


ALT Odd/Even

TCE 007692454-05

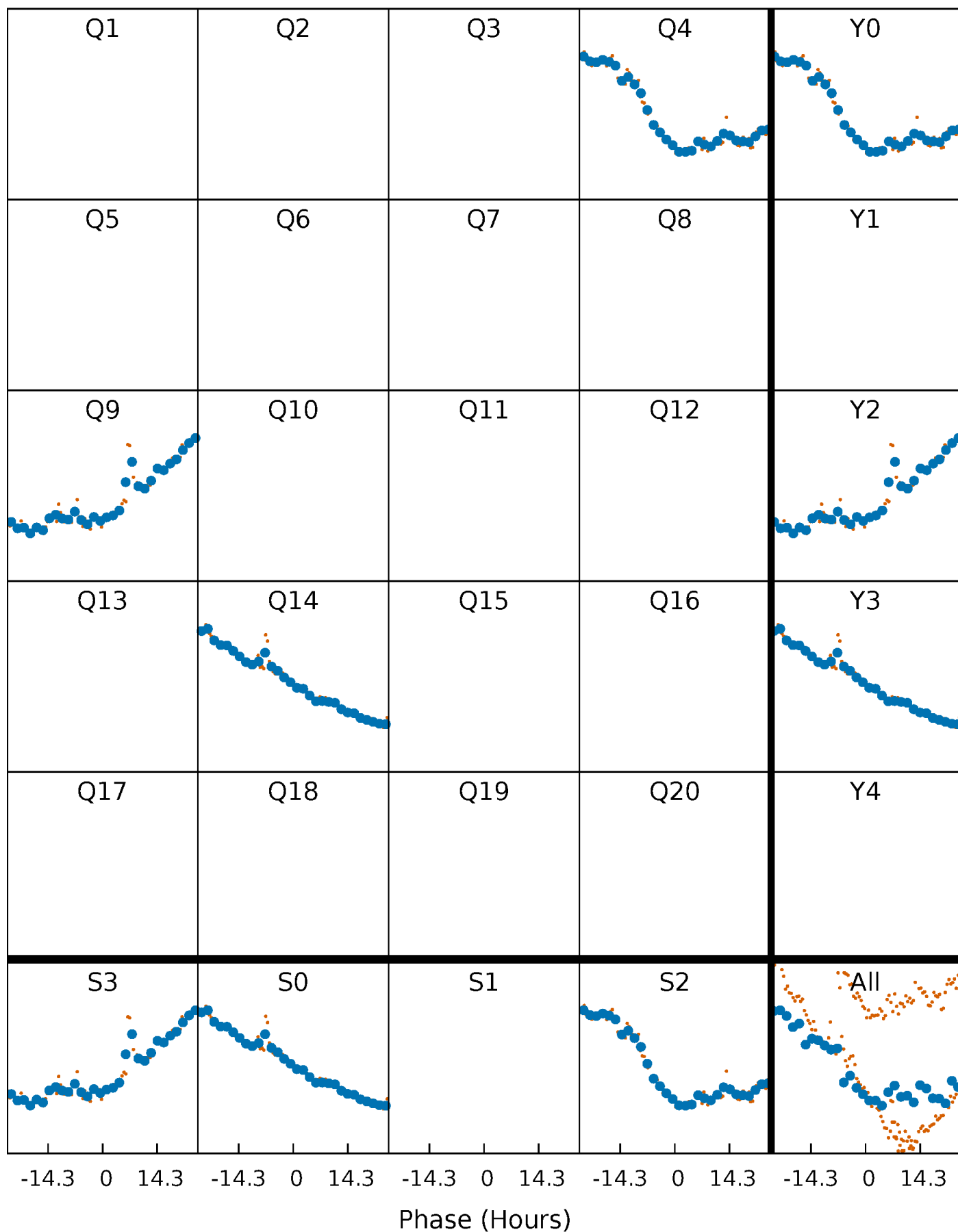


Non-Whitened Vs. Whitened Light Curve



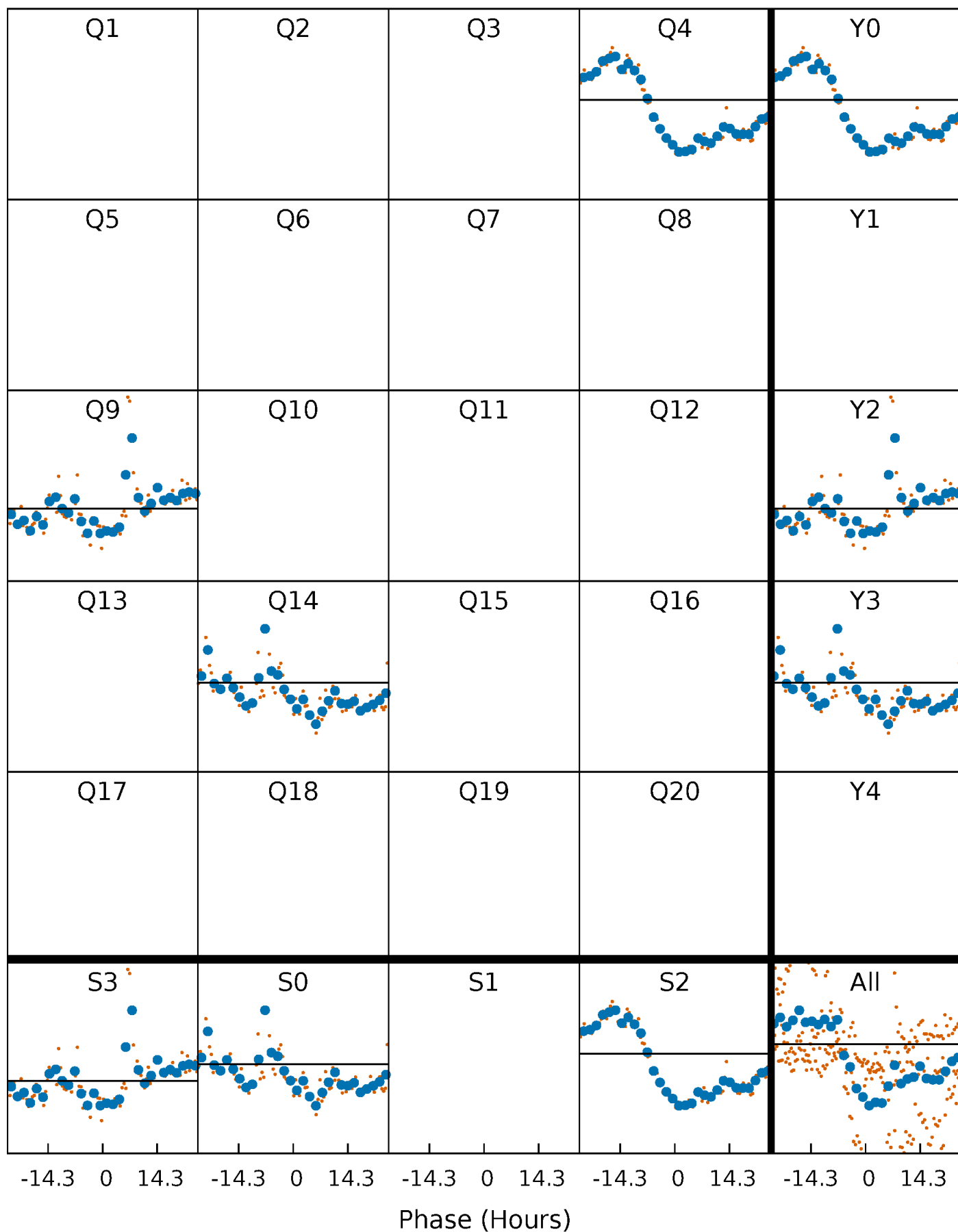
PDC Quarter-Phased Transit Curves

TCE 007692454-05 $P=481.339750$ Days $T_0=402.834615$ (BKJD)



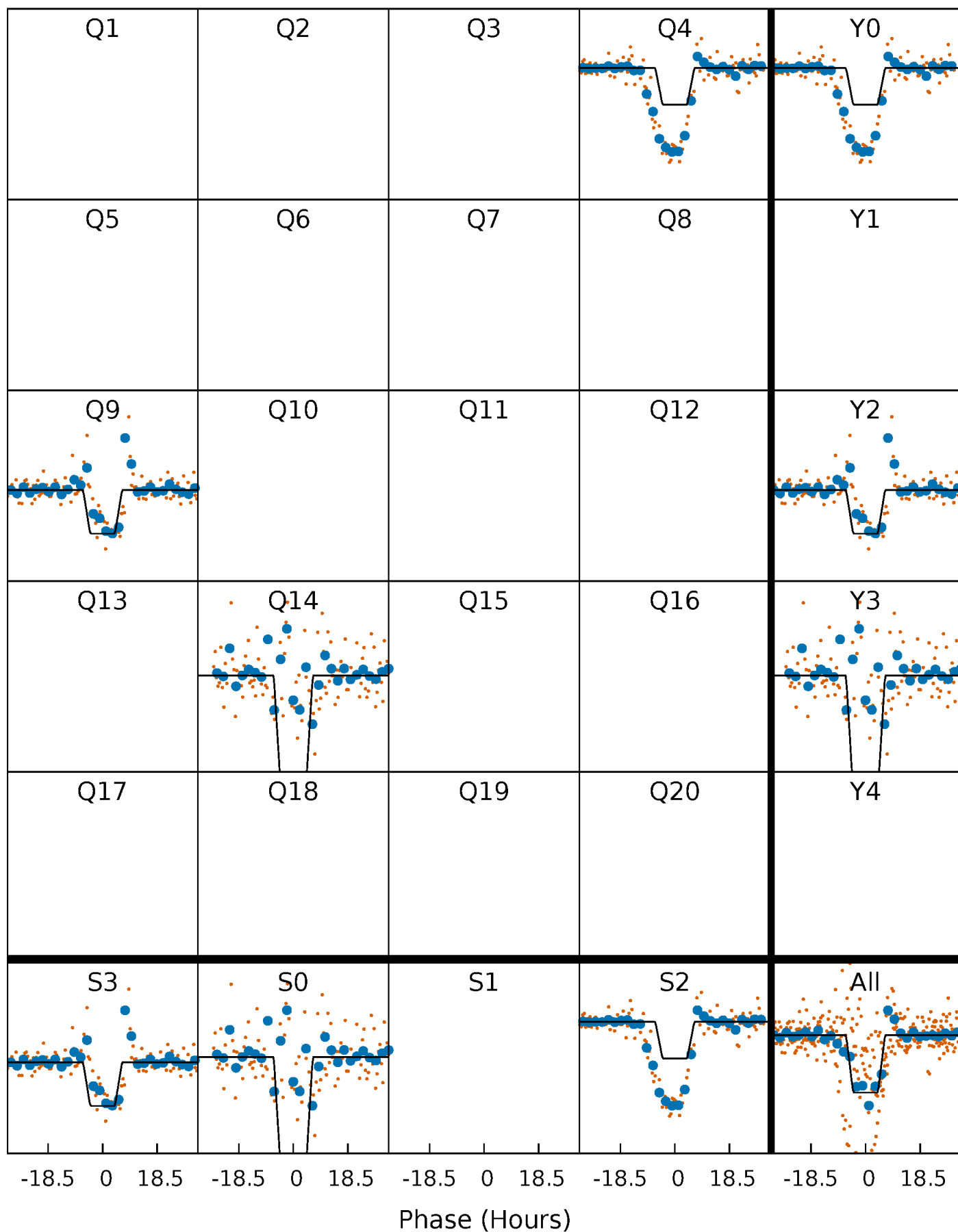
DV Quarter-Phased Transit Curves

TCE 007692454-05 $P=481.339750$ Days $T_0=402.834615$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

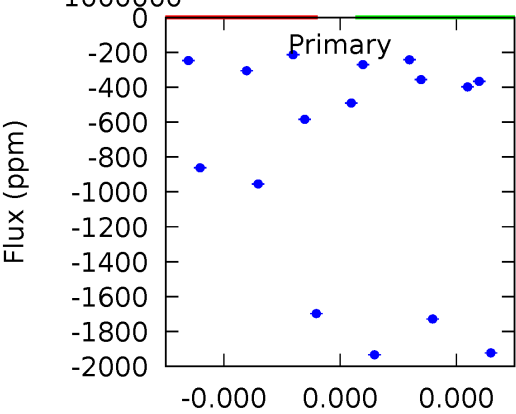
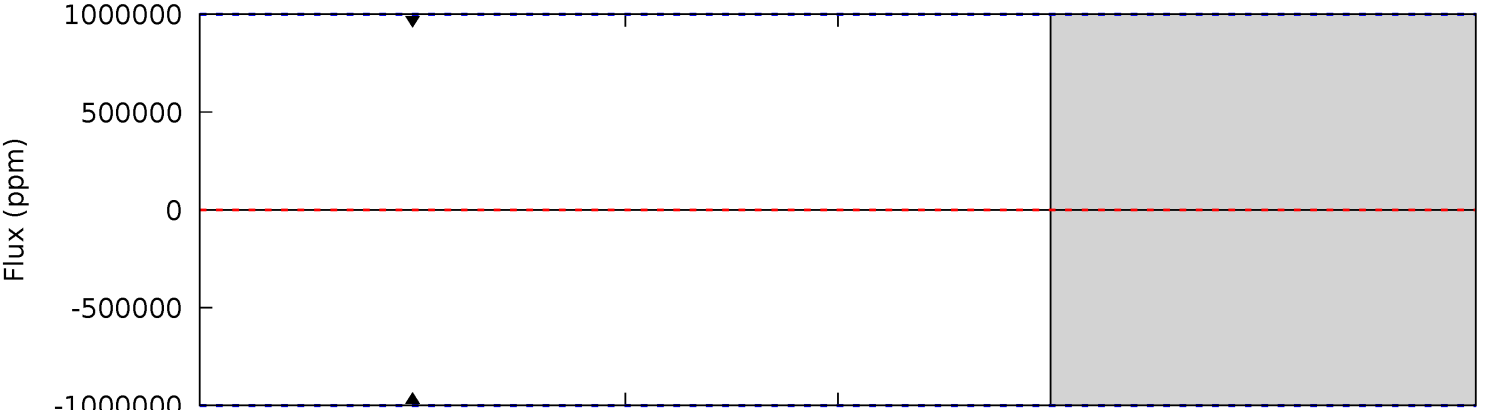
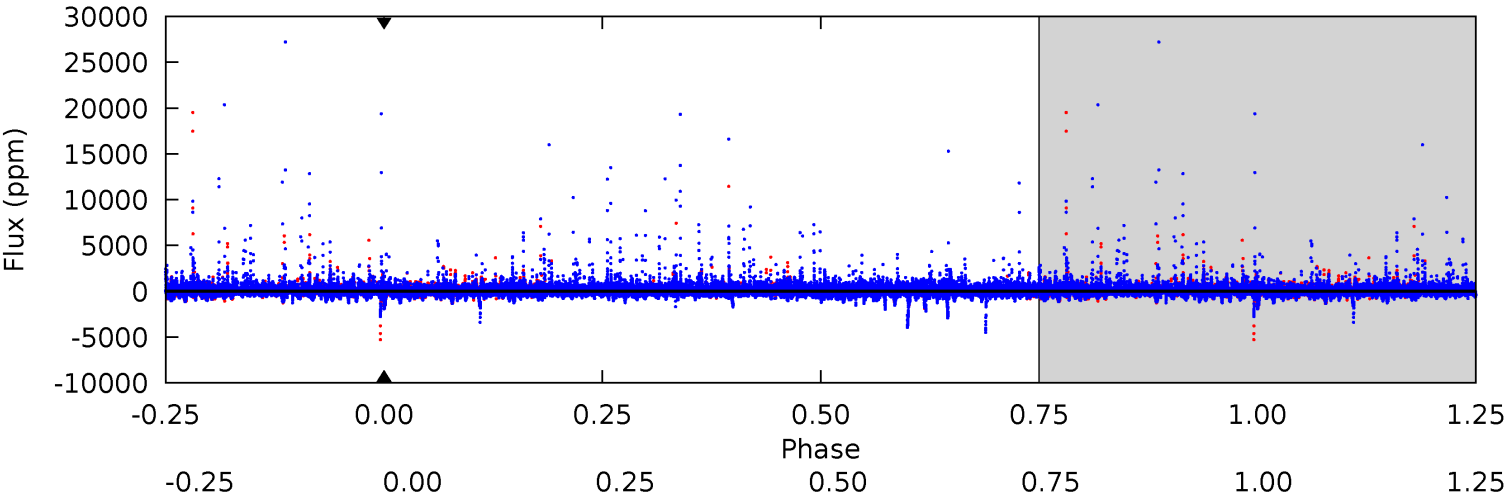
TCE 007692454-05 $P=481.339750$ Days $T_0=402.779498$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-05, P = 481.339750 Days, E = 402.834615 Days

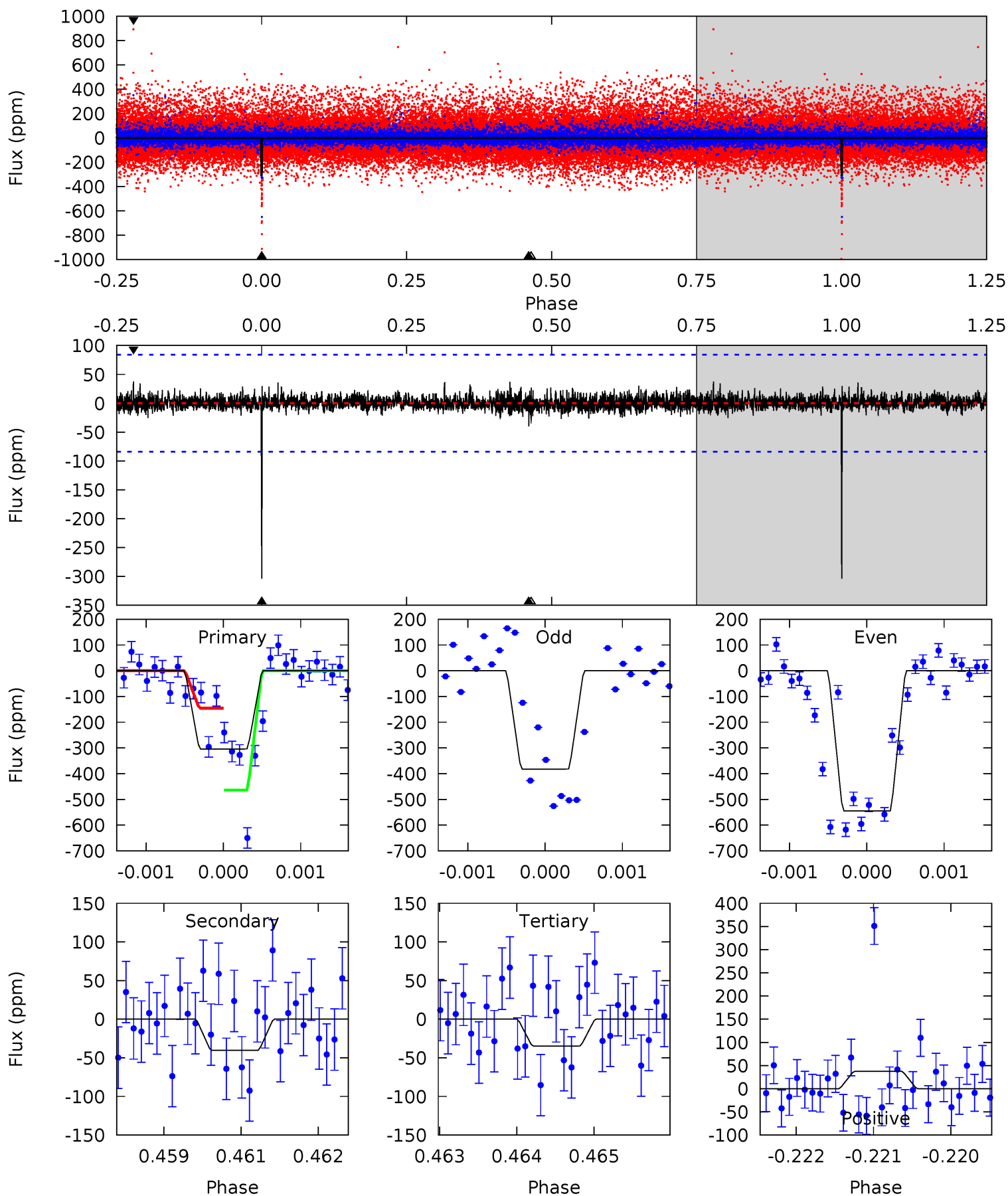
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007692454-05, P = 481.339750 Days, E = 402.779498 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	2.59	2.24	2.43	5.43	3.25	0.50	17.4	17.2	0.35	0.16	5.91	1.38	0.11	10.0



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$4.43^{+4.86}_{-3.12}$	177^{+7}_{-7}	3336^{+6851}_{-11544}	$56542^{+7971520}_{-4142406}$
Alt.	-40 ± 16	$4.58^{+5.17}_{-3.22}$	176^{+7}_{-7}	1984^{+593}_{-275}	976^{+9003}_{-782}

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

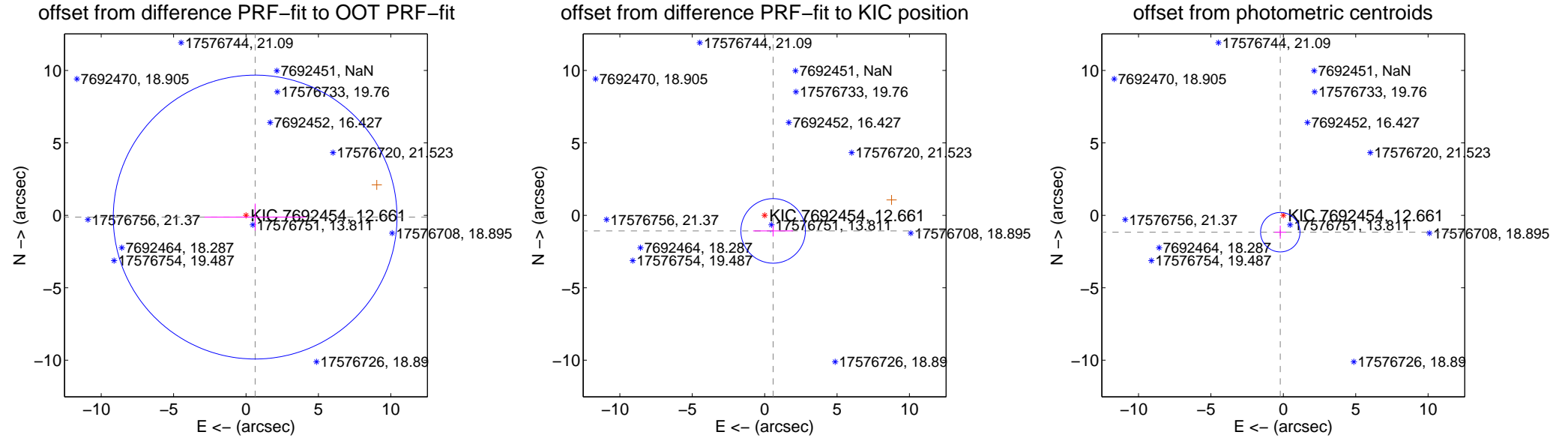
DV Centroid Data

Supplemental centroid analysis for 007692454-05. Kepler magnitude: 12.66. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 1.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.643 ± 3.266	0.20	-0.632 ± 3.502	-0.120 ± 0.930
PRF-fit source offset from KIC position	1.224 ± 0.743	1.65	-0.585 ± 1.382	-1.076 ± 0.387
photometric centroid source offset	1.18 ± 0.45	2.61	0.21 ± 0.41	-1.16 ± 0.46



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.

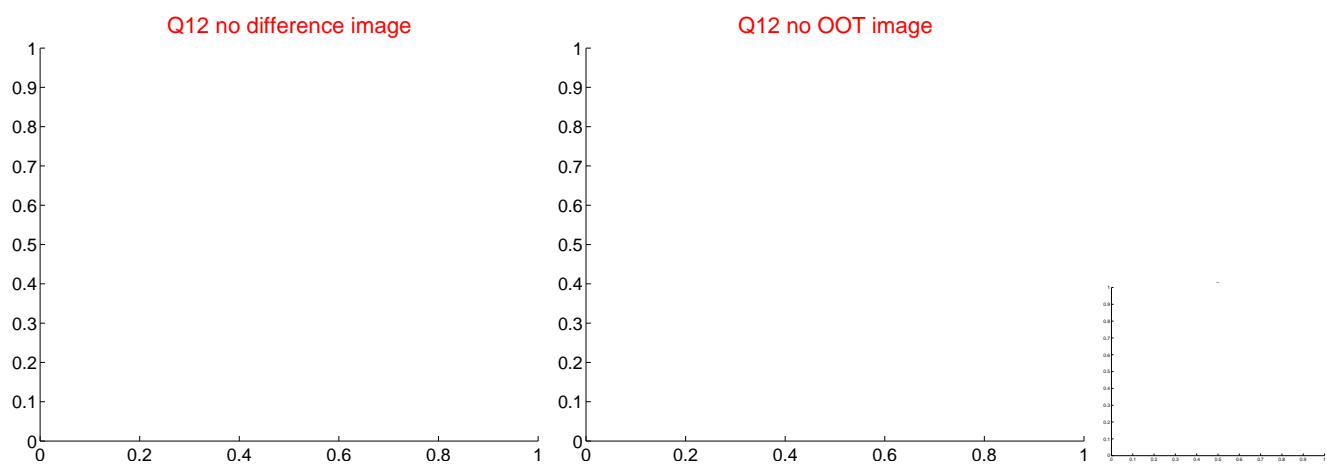
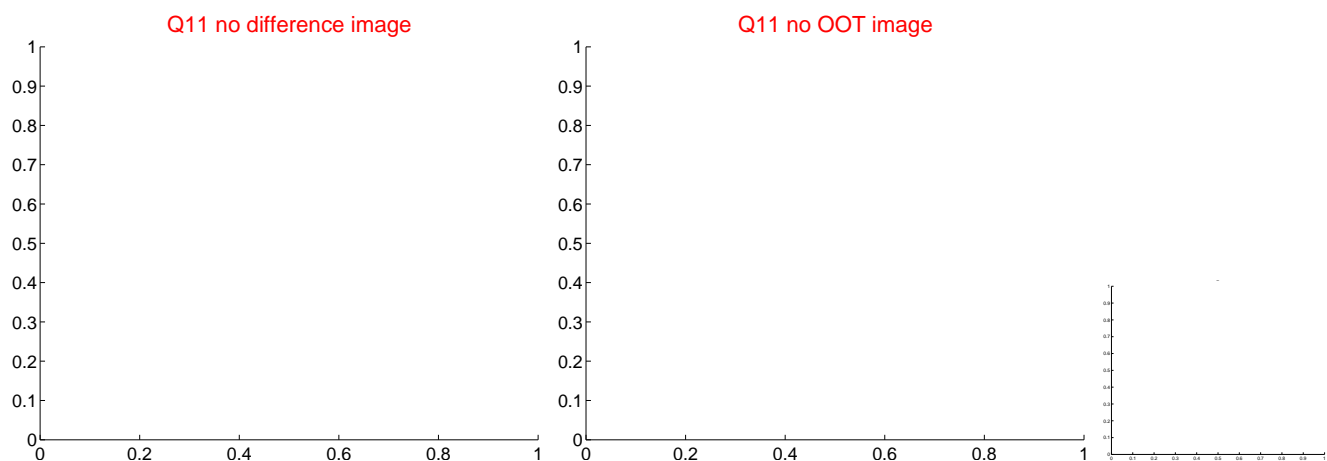
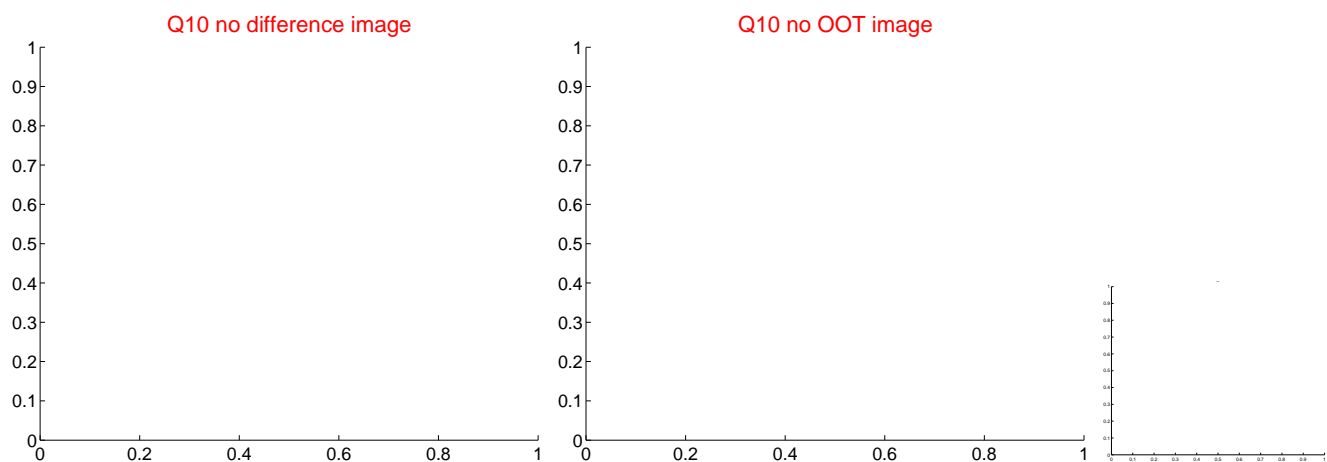
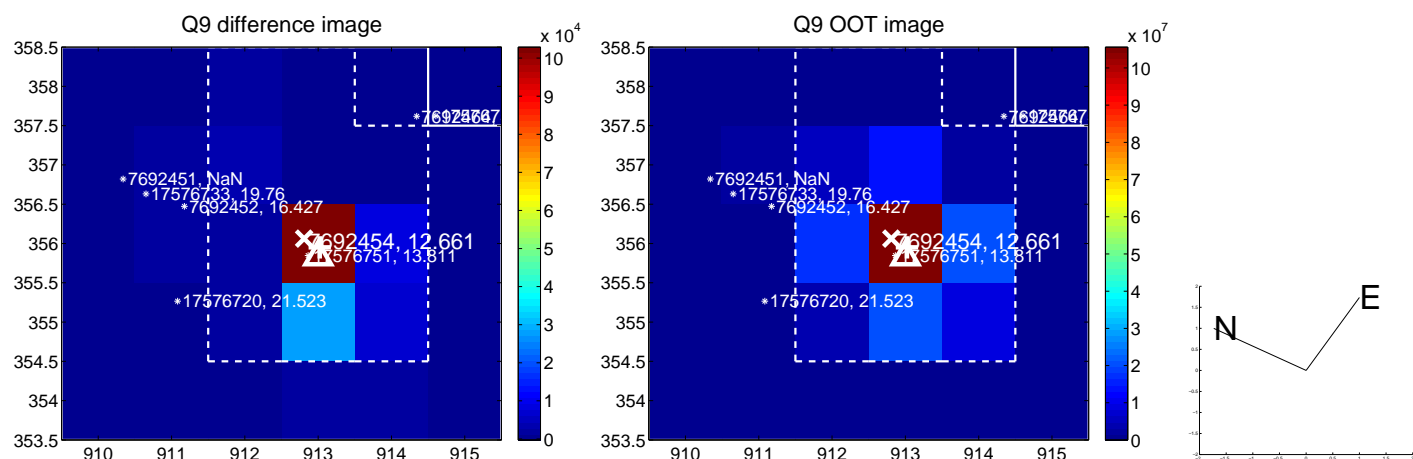
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.

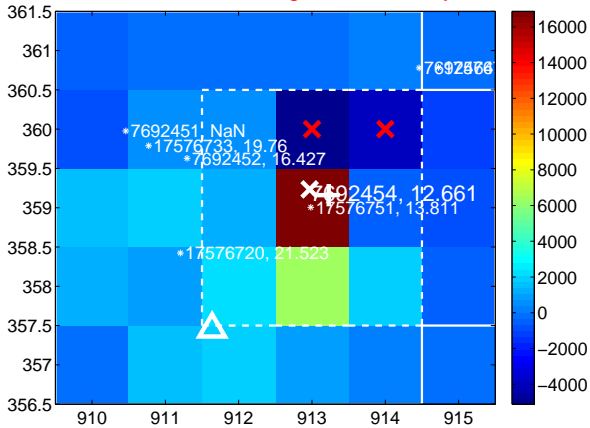
Q13 no difference image



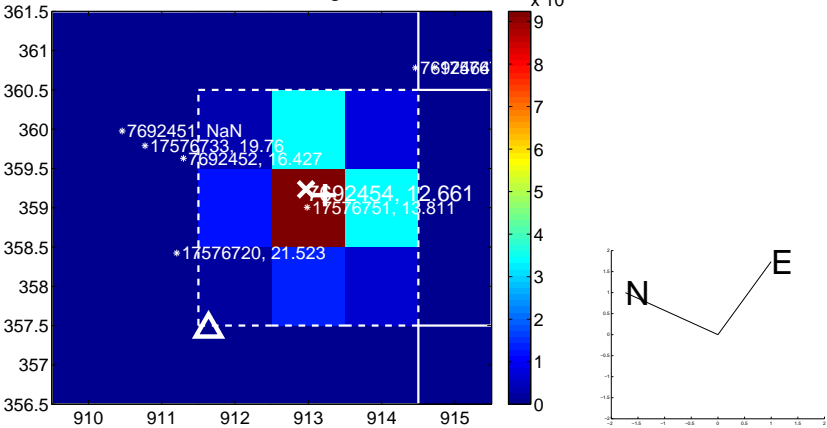
Q13 no OOT image



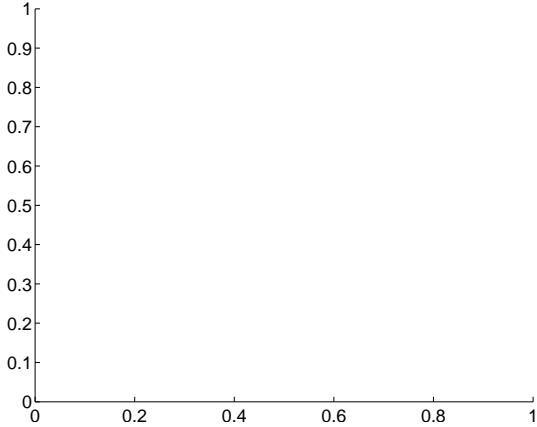
Q14 difference image. Poor Quality



Q14 OOT image



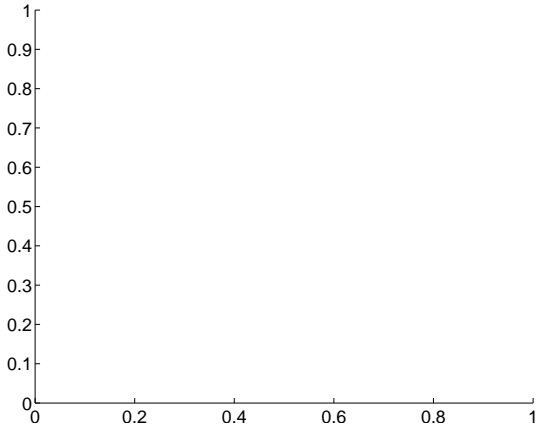
Q15 no difference image



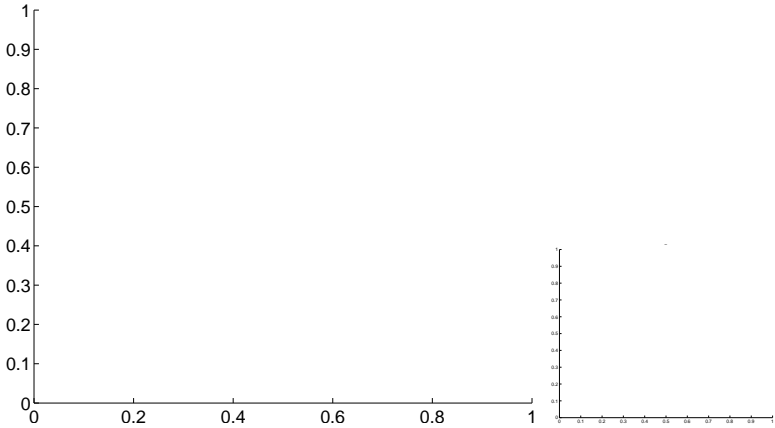
Q15 no OOT image



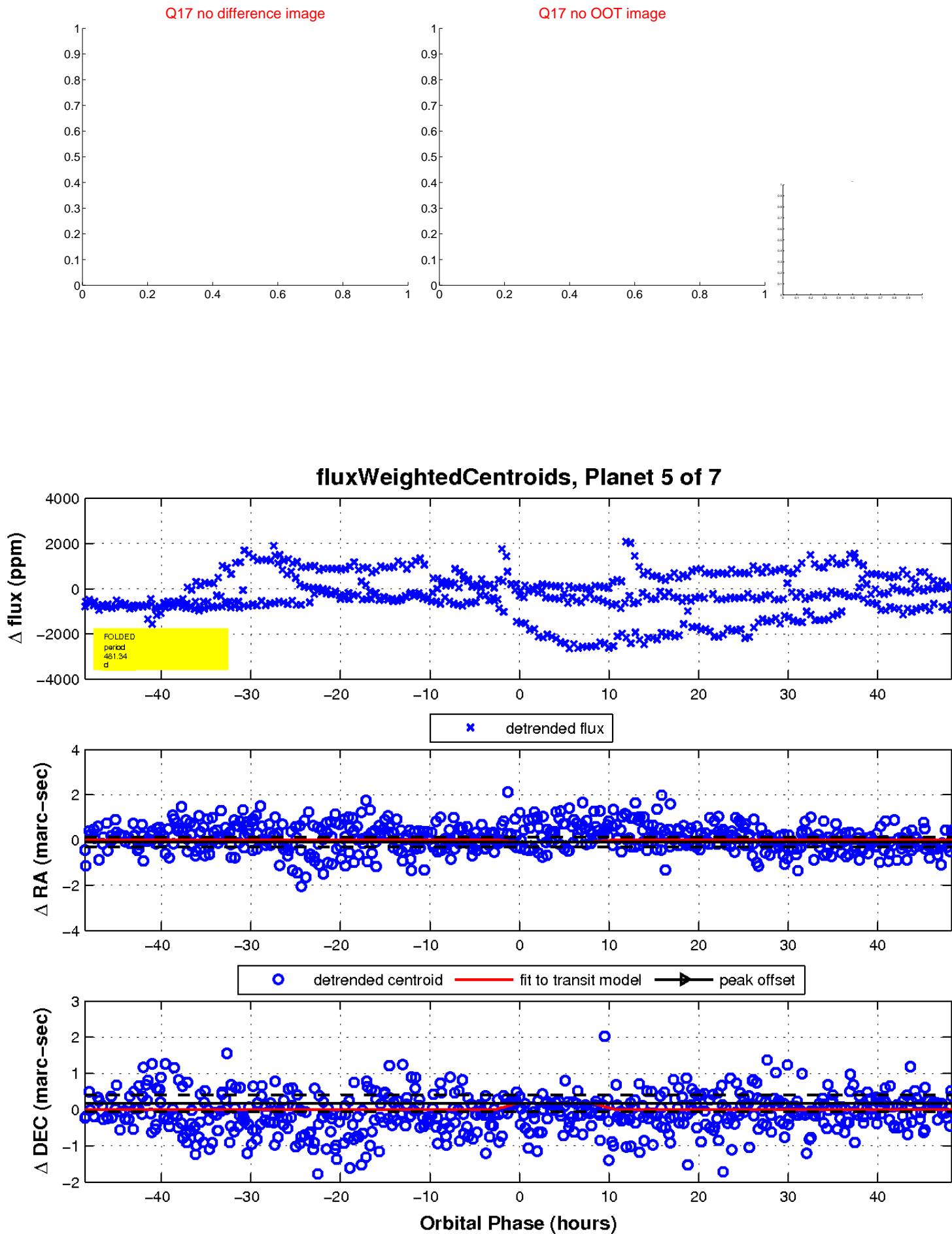
Q16 no difference image



Q16 no OOT image

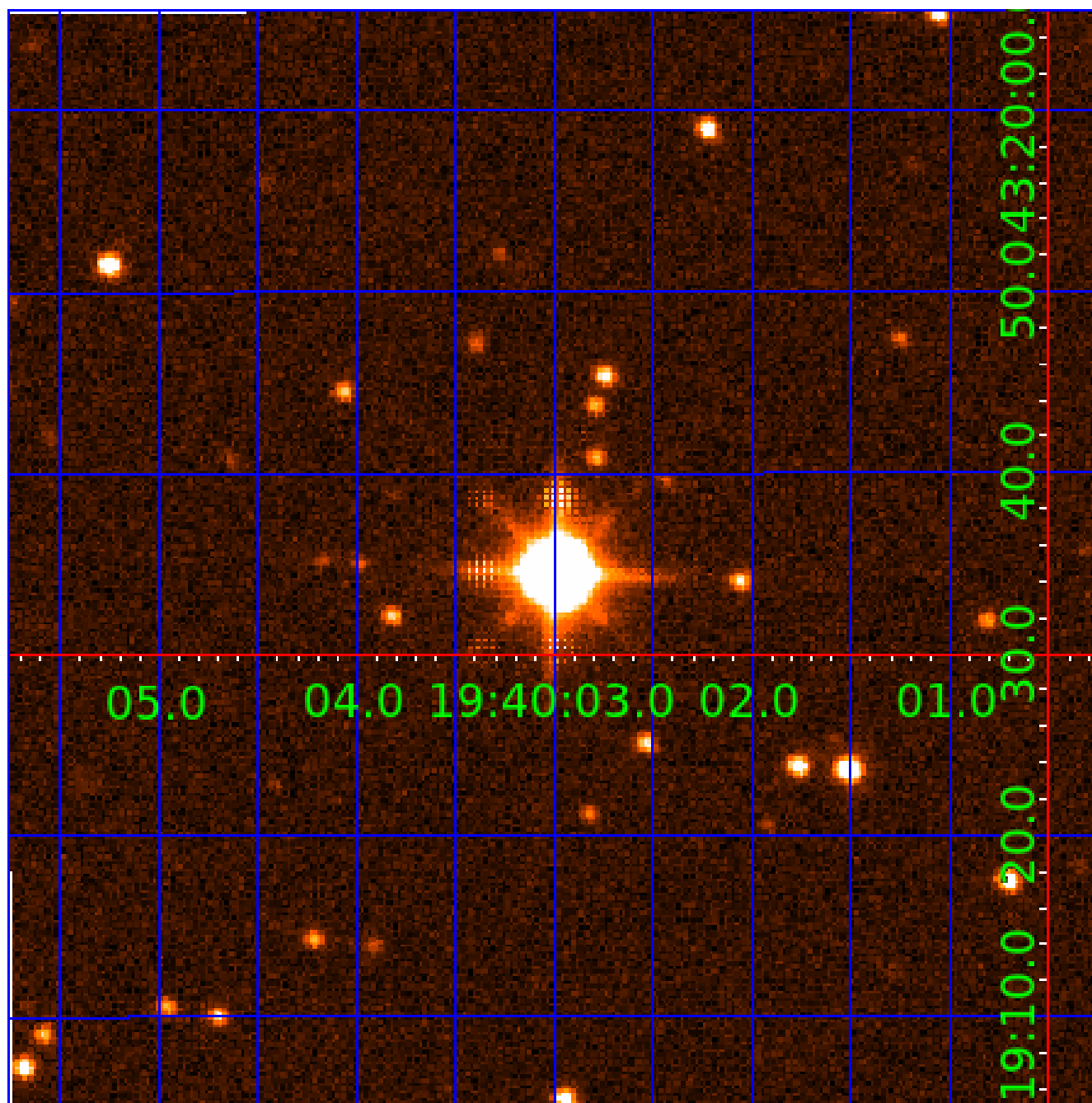


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

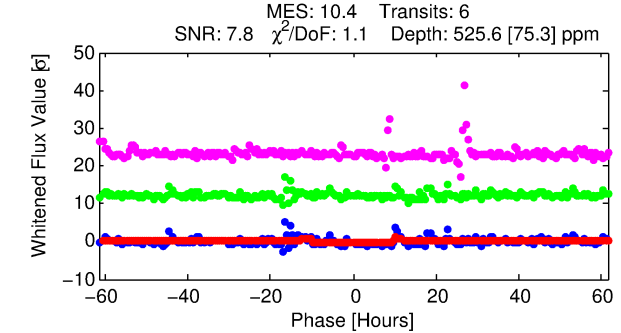
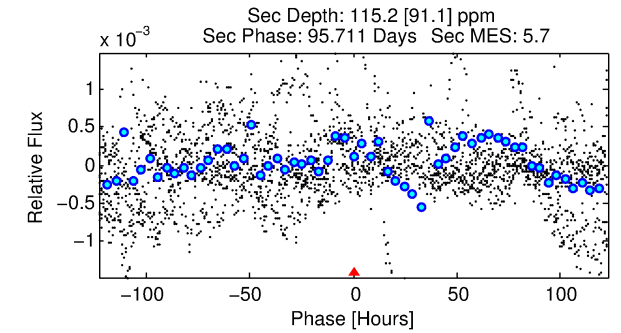
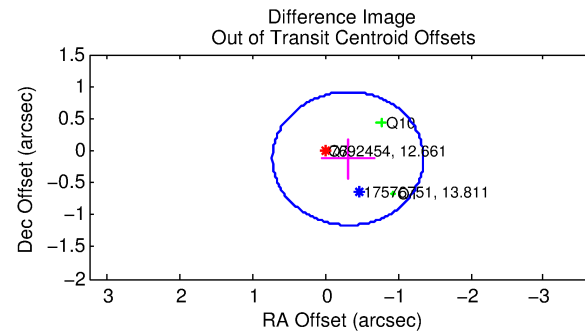
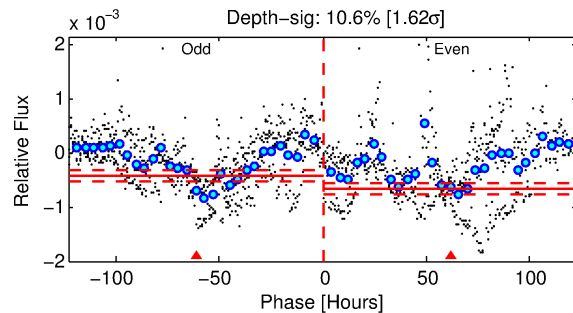
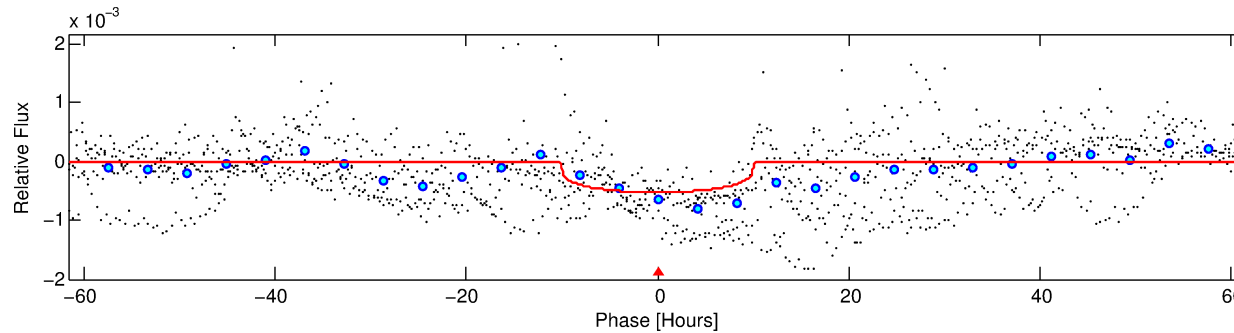
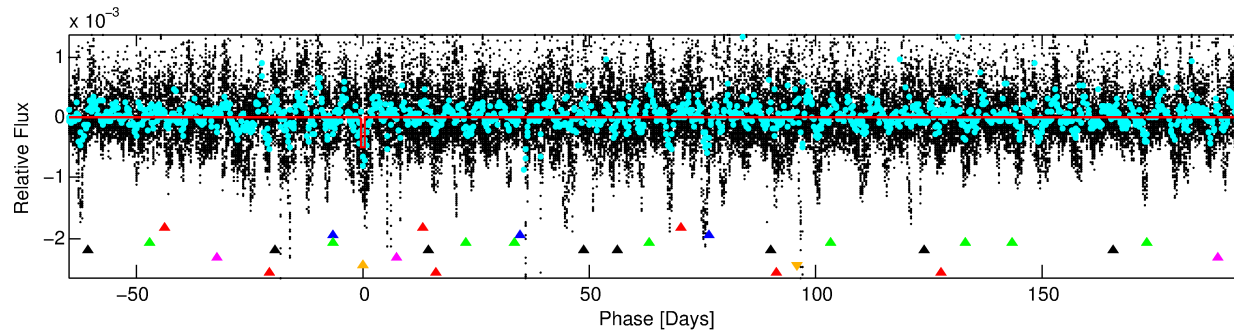
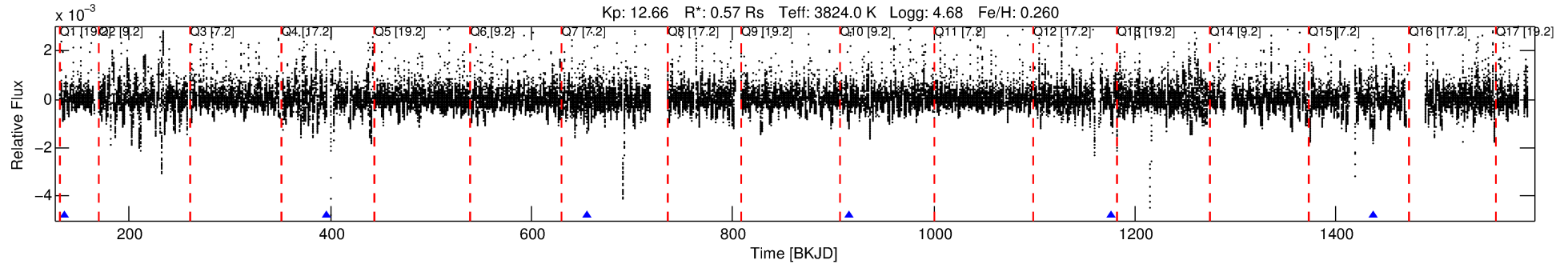
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-06

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 6 of 7 Period: 260.315 d



DV Fit Results:

Period = 260.31490 [0.00310] d
Epoch = 135.2299 [0.0096] BKJD
Rp/R* = 0.0210 [0.0045]
a/R* = 89.03 [61.73]
b = 0.44 [1.28]
Seff = 0.14 [0.03]
Teq = 157 [8] K
Rp = 1.32 [0.33] Re
a = 0.6660 [0.0693] AU
Ag = 16218.19 [14785.83] [1.10 σ]
Teffp = 2735 [625] K [4.13 σ]

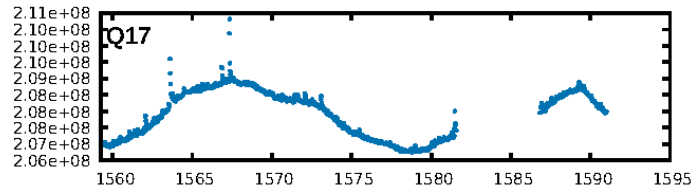
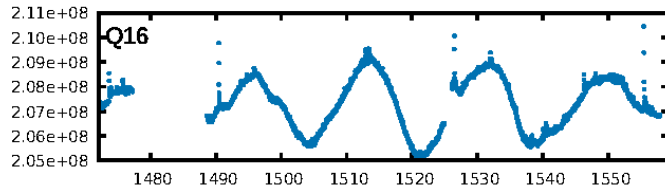
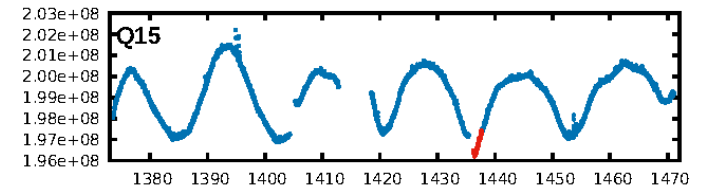
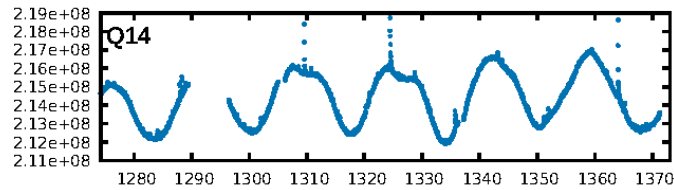
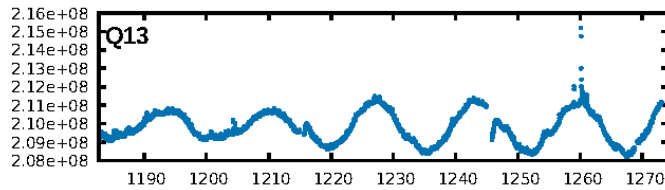
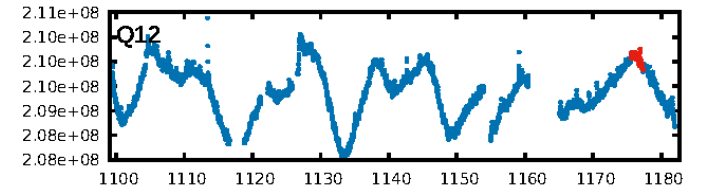
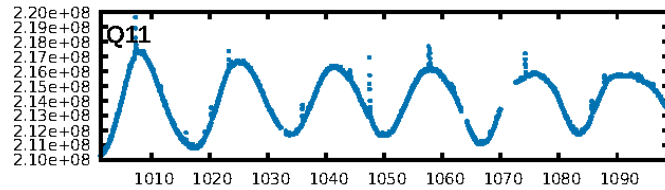
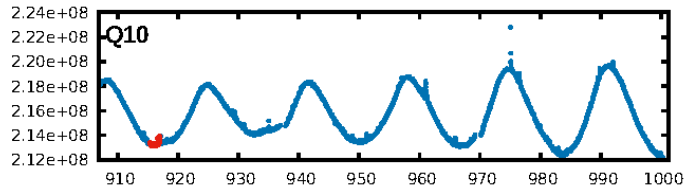
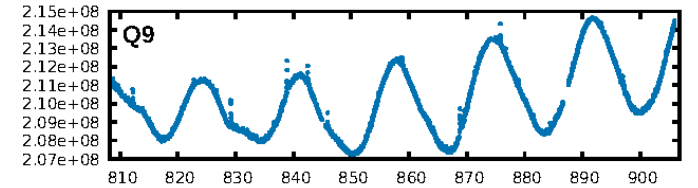
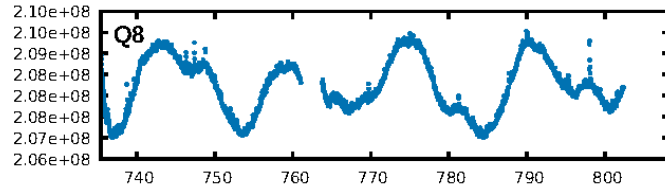
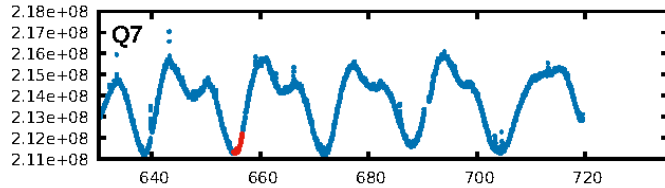
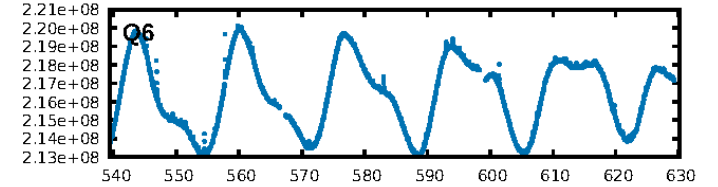
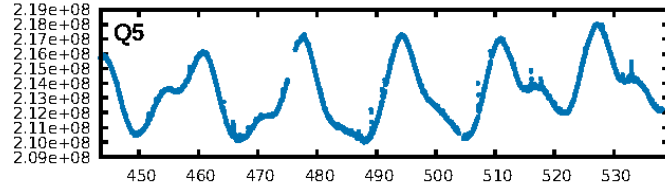
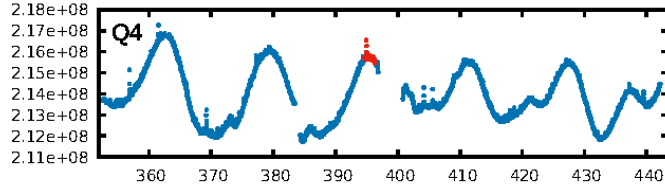
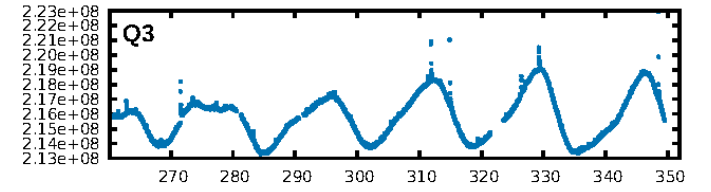
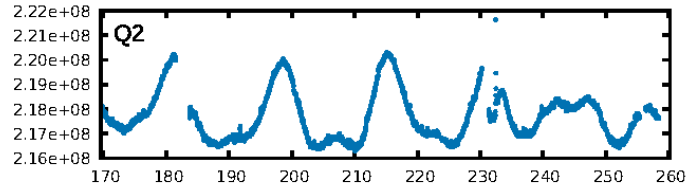
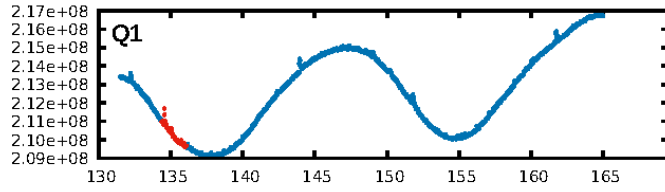
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [87.51 σ]
LongPeriod-sig: 100.0% [168.30 σ]
ModelChiSquare2-sig: 31.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 9.14e-10
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -2.619
Centroid-sig: 72.2%
Centroid-so: 0.908 arcsec [3.78 σ]
OotOffset-rm: 0.335 arcsec [0.97 σ]
KicOffset-rm: 0.992 arcsec [3.48 σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

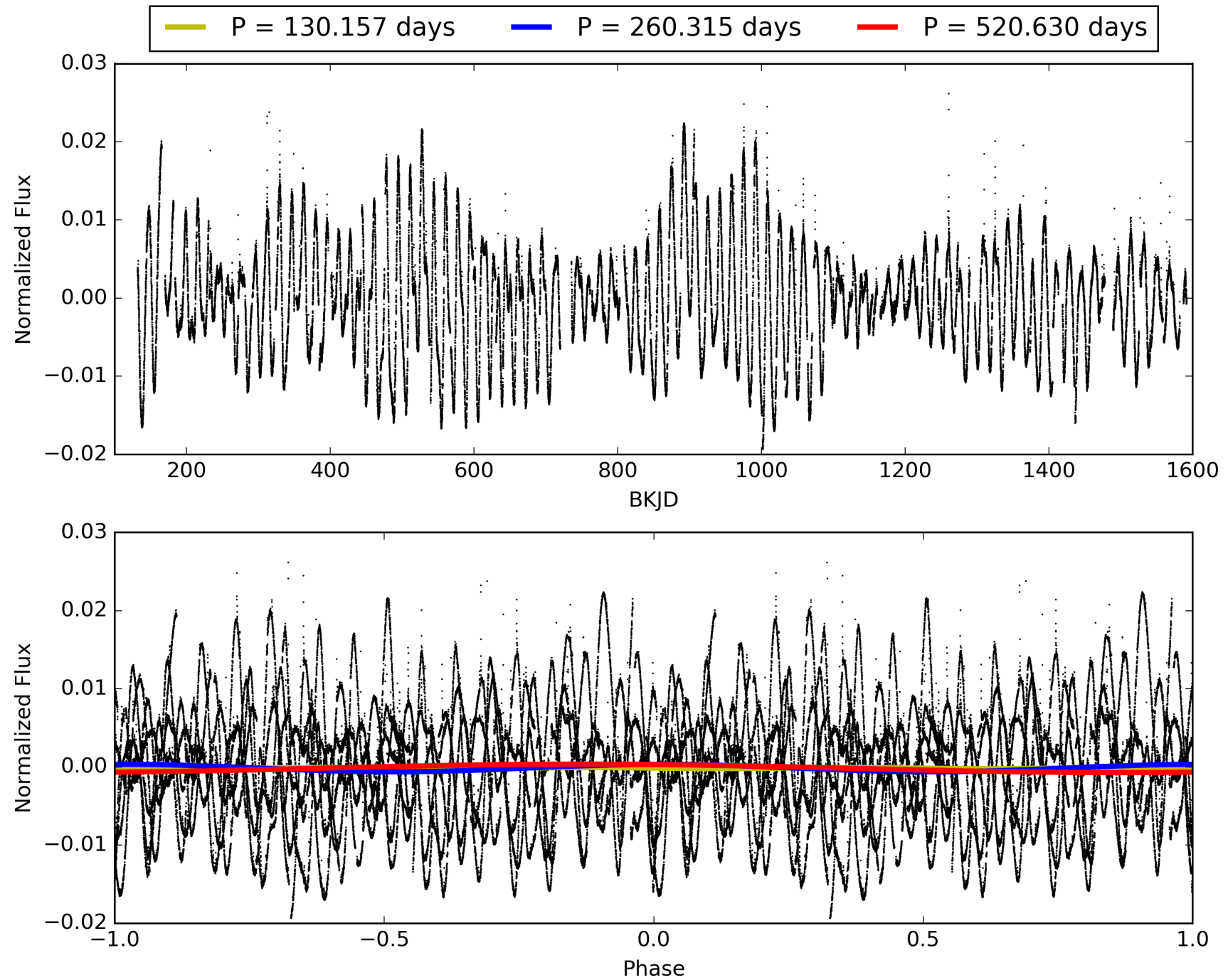
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:58:37 Z

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

TCE 007692454-06, PDC Light Curves

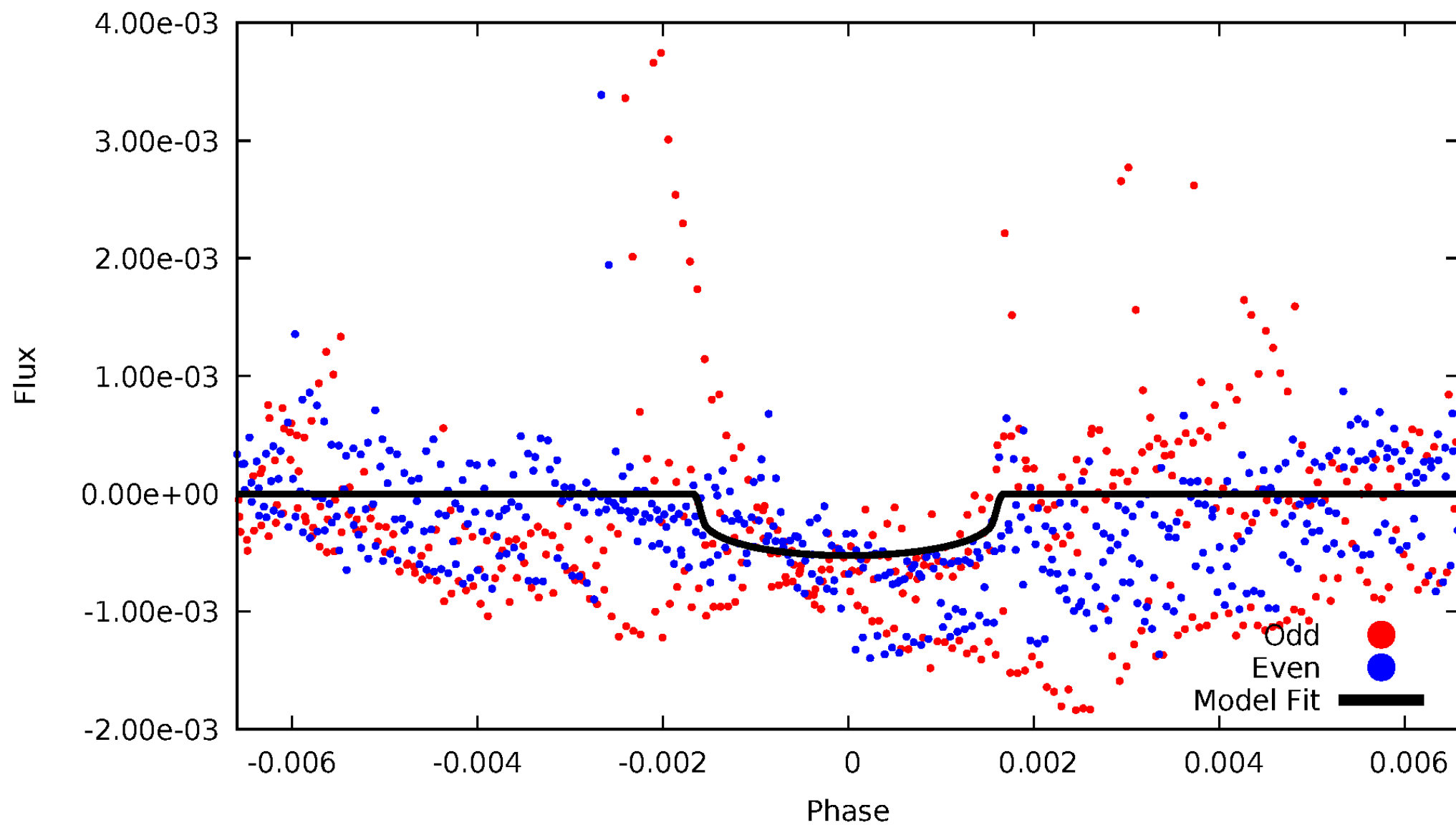


TCE 007692454-06



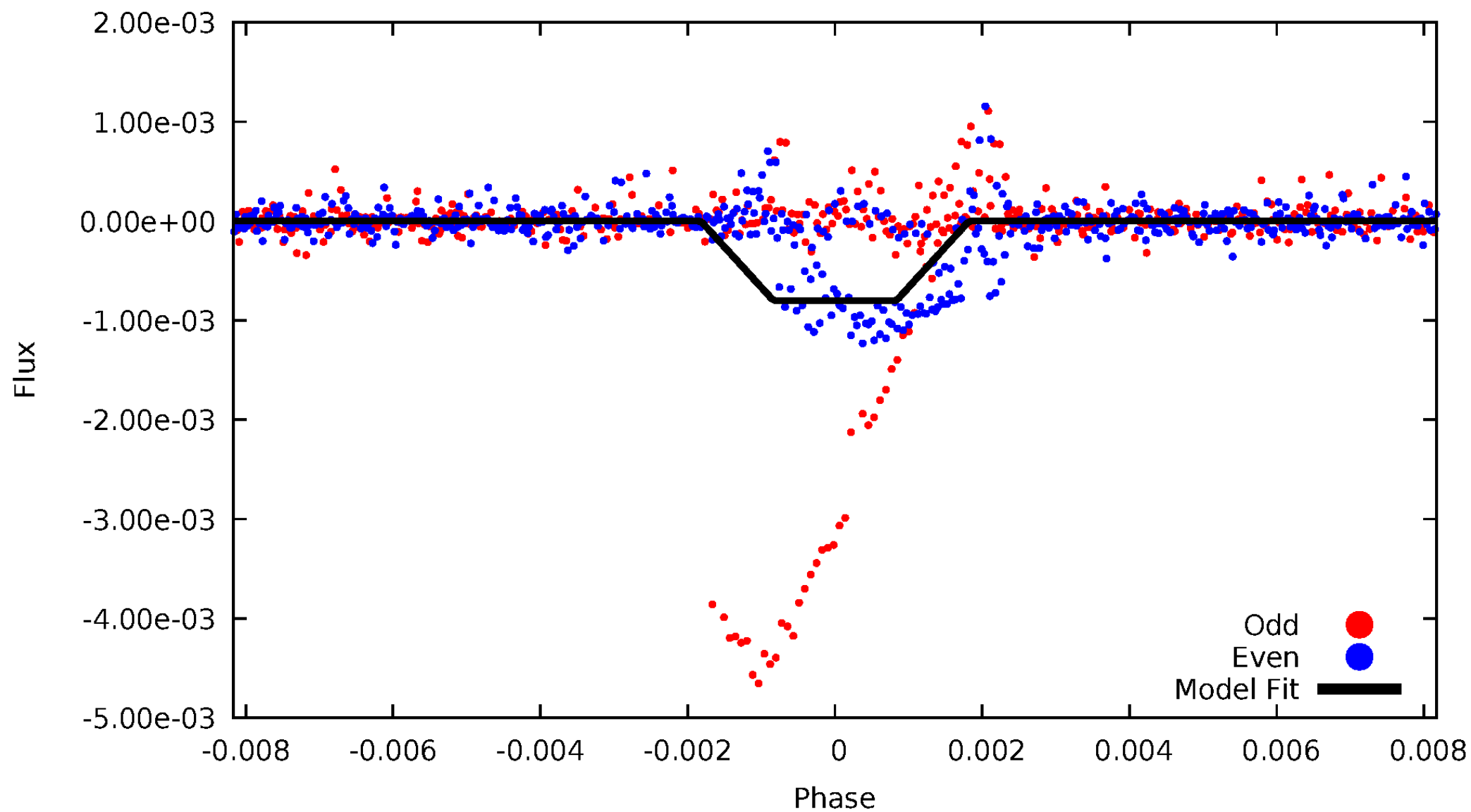
DV Odd/Even

TCE 007692454-06



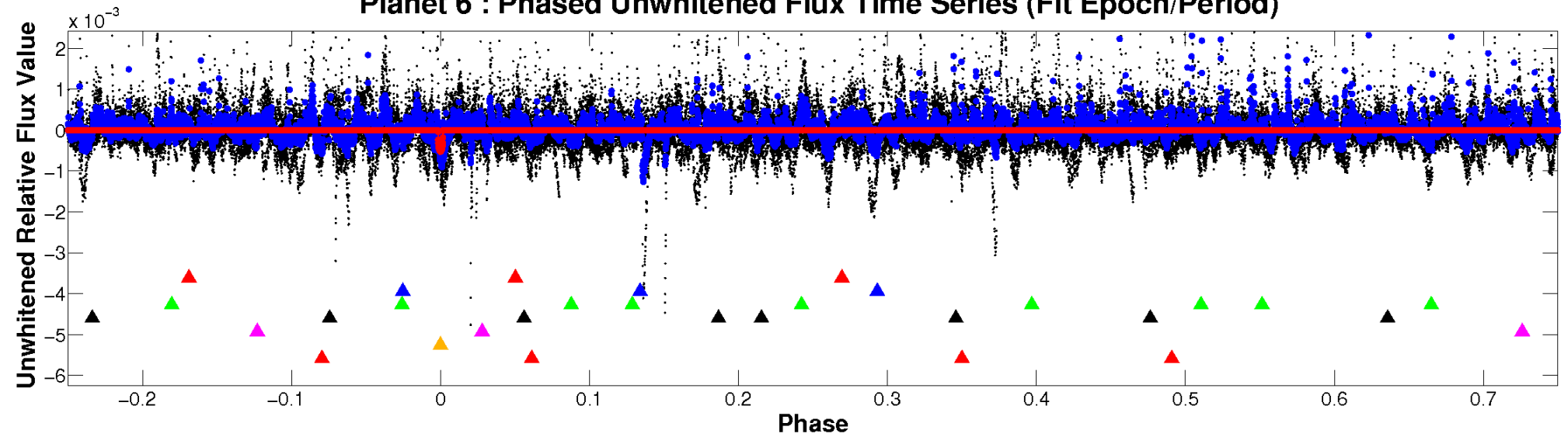
ALT Odd/Even

TCE 007692454-06

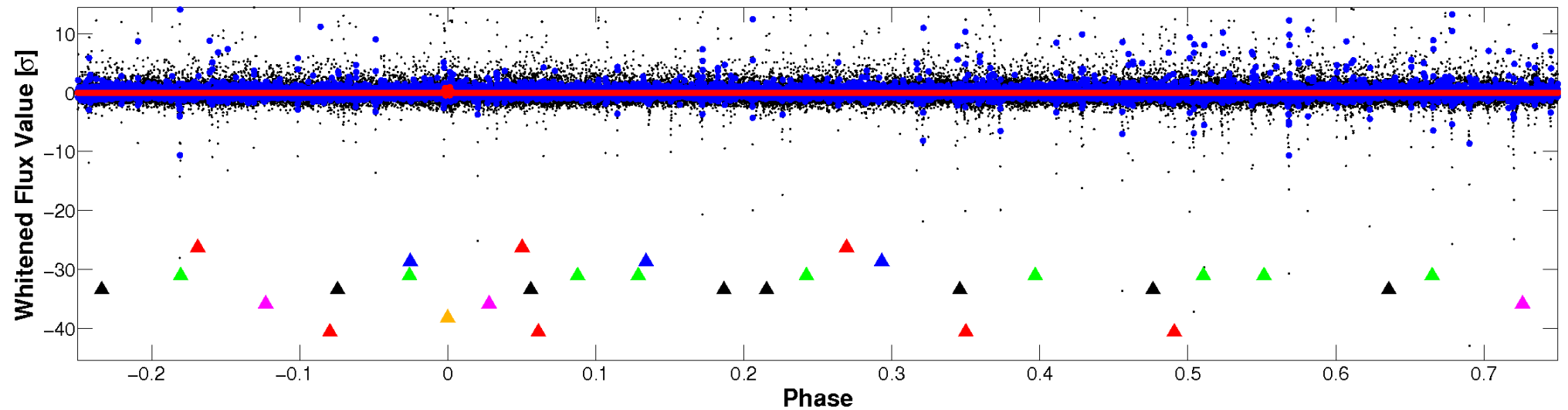


Non-Whitened Vs. Whitened Light Curve

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

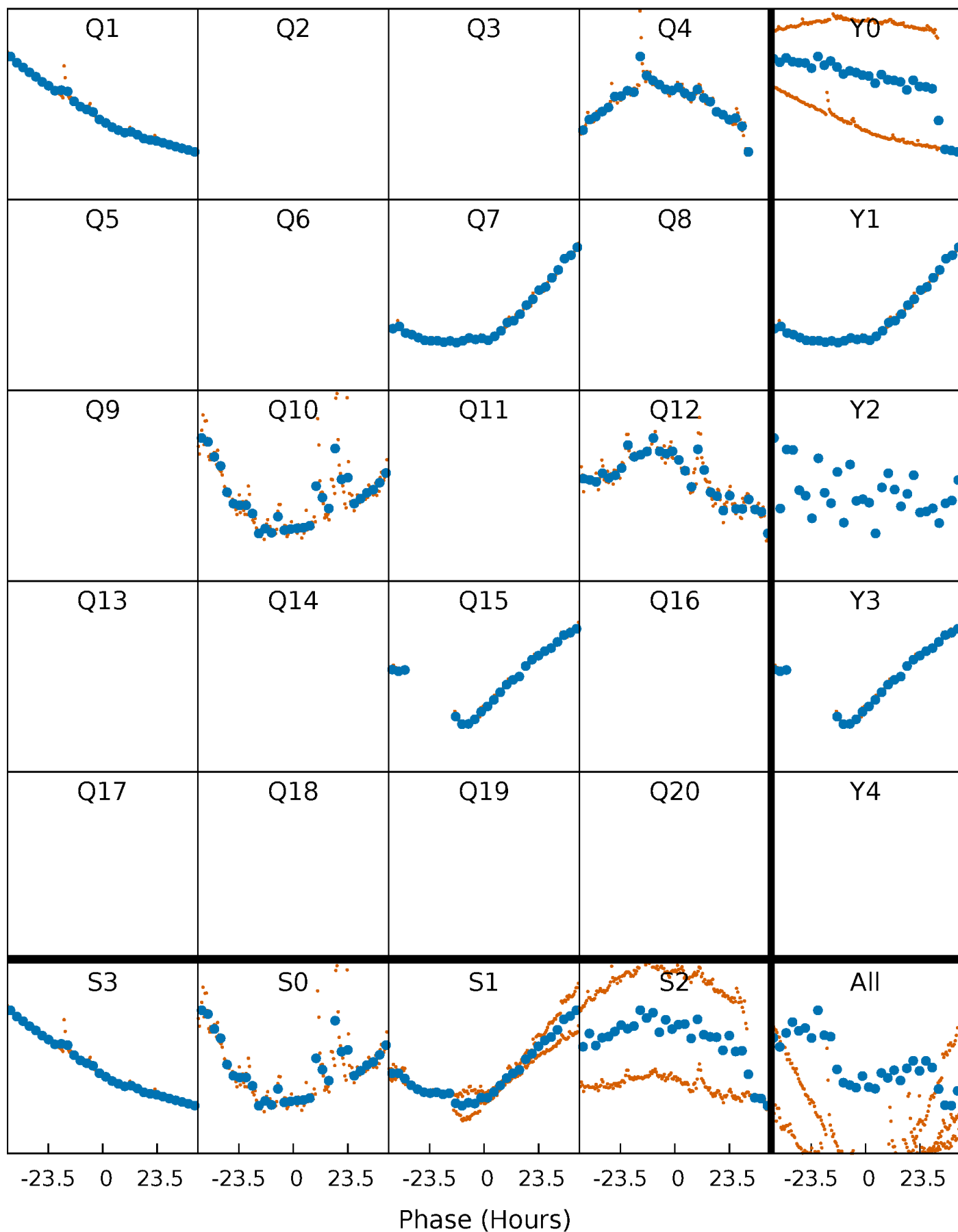


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 007692454-06 $P=260.314904$ Days $T_0=135.229871$ (BKJD)



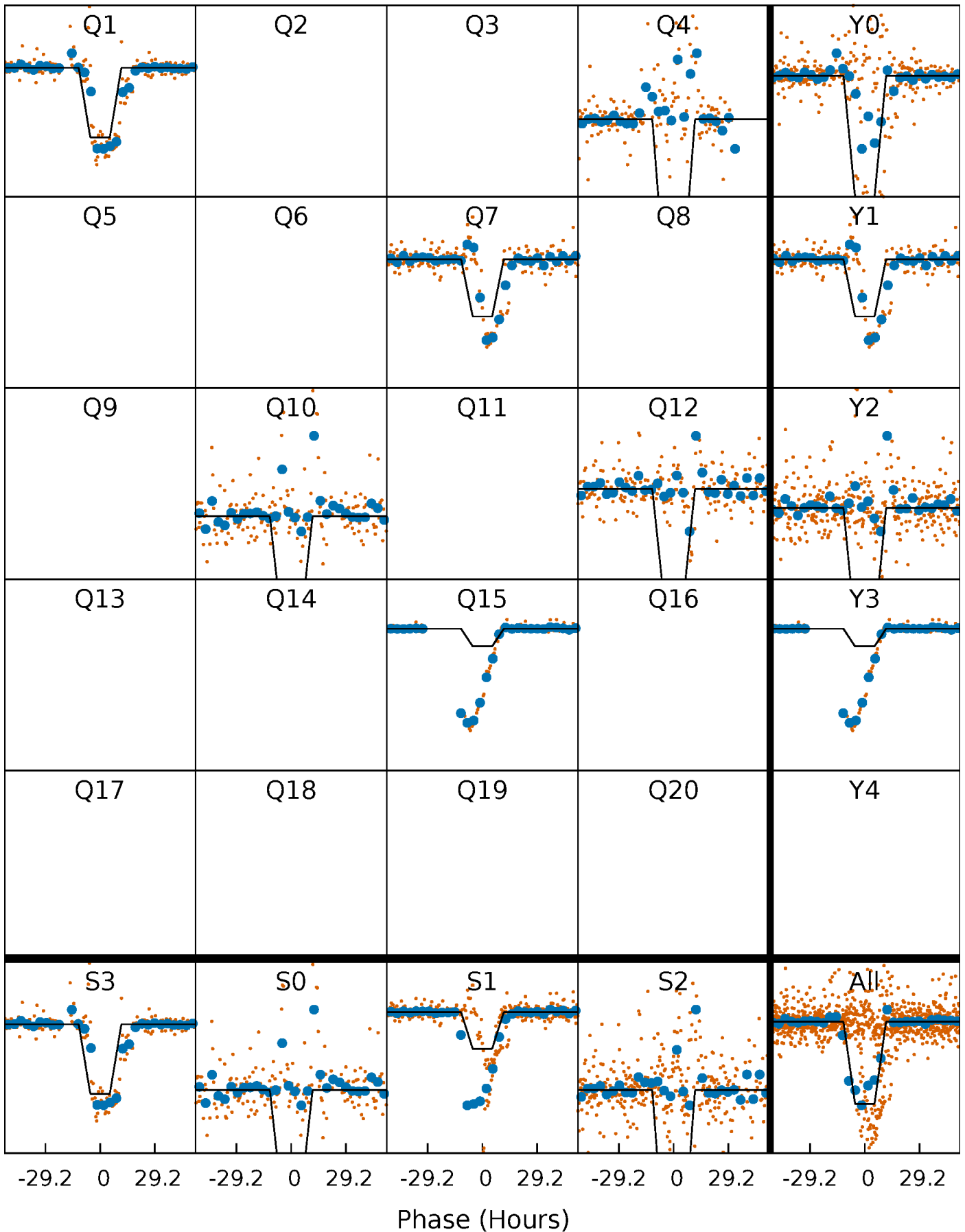
DV Quarter-Phased Transit Curves

TCE 007692454-06 P=260.314904 Days $T_0=135.229871$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

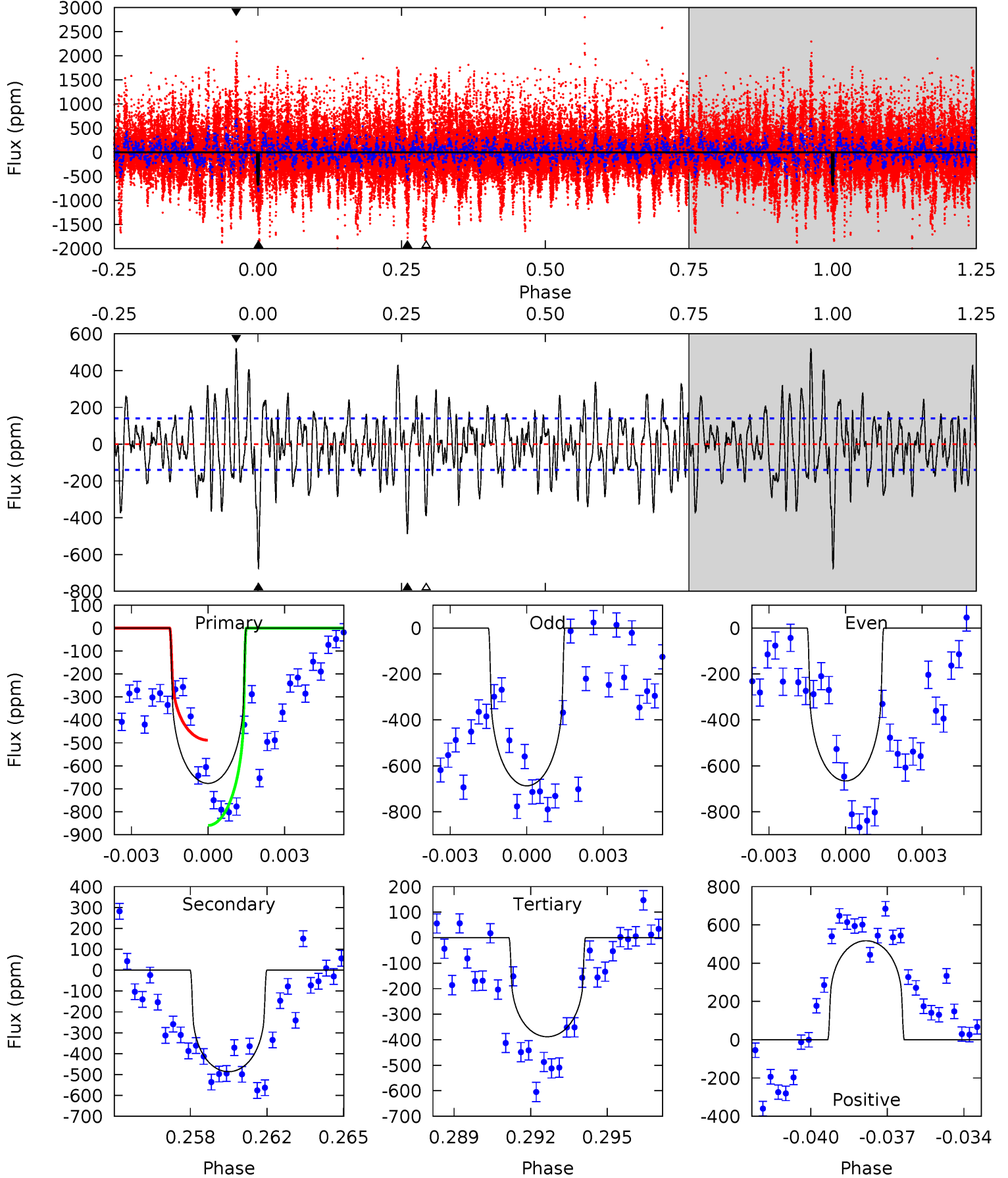
TCE 007692454-06 P=260.289498 Days $T_0=135.243734$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-06, P = 260.314904 Days, E = 135.229871 Days

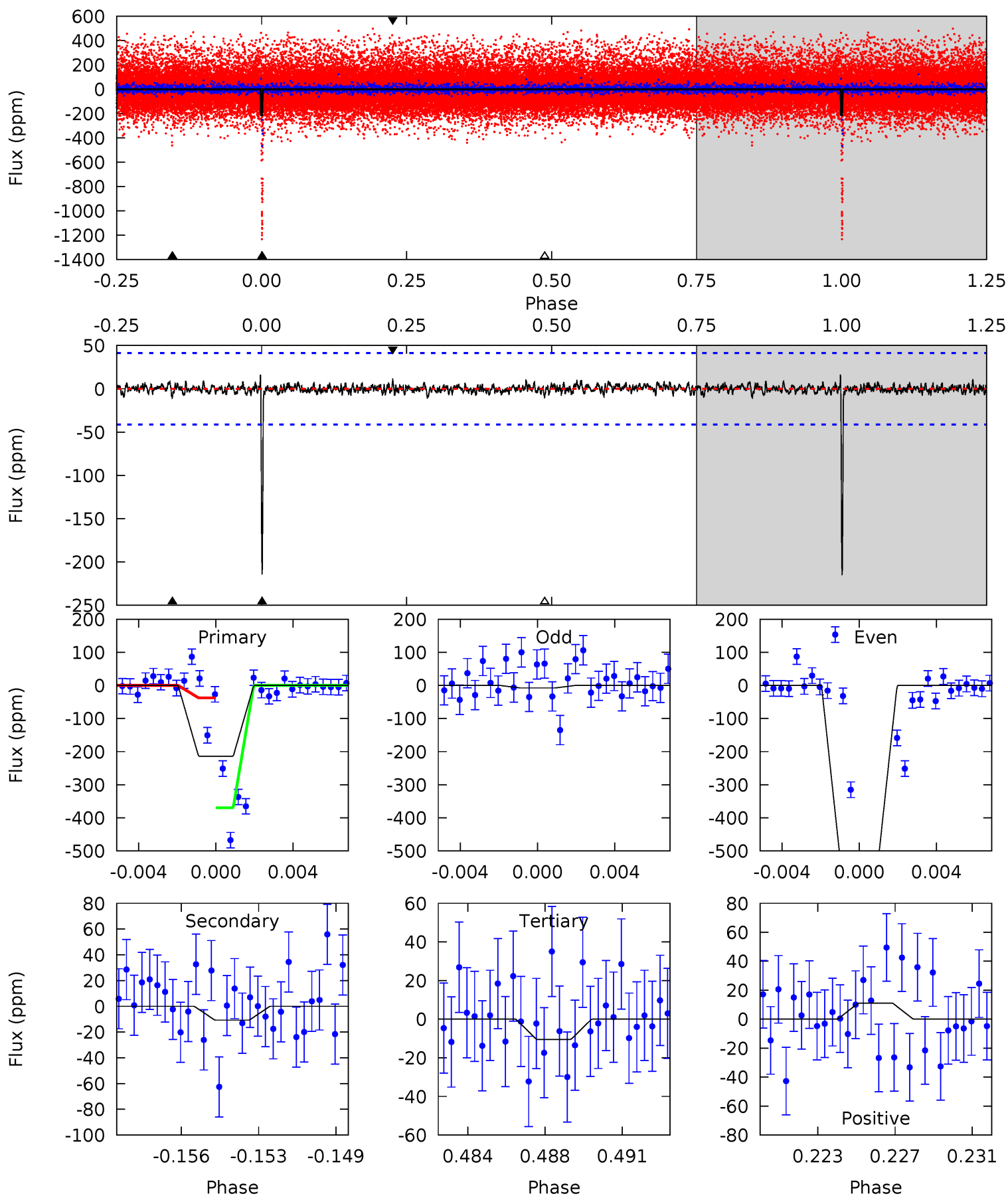
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.4	18.2	14.6	19.4	5.23	2.93	5.25	10.8	5.98	3.68	-1.15	0.38	1.05	0.43	7.00



Alt Model-Shift Uniqueness Test

007692454-06, P = 260.289498 Days, E = 135.243734 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.1	1.35	1.32	1.40	5.21	2.90	0.41	25.8	25.7	0.04	-0.04	36.2	2.40	0.07	21.0



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-486 ± 27	$1.32^{+0.27}_{-0.30}$	217^{+8}_{-9}	3874^{+362}_{-278}	69829^{+42512}_{-22533}
Alt.	-11 ± 8	$1.74^{+0.31}_{-0.31}$	217^{+8}_{-9}	2148^{+169}_{-285}	907^{+783}_{-682}

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 $A_{obs} \gg 1.0$

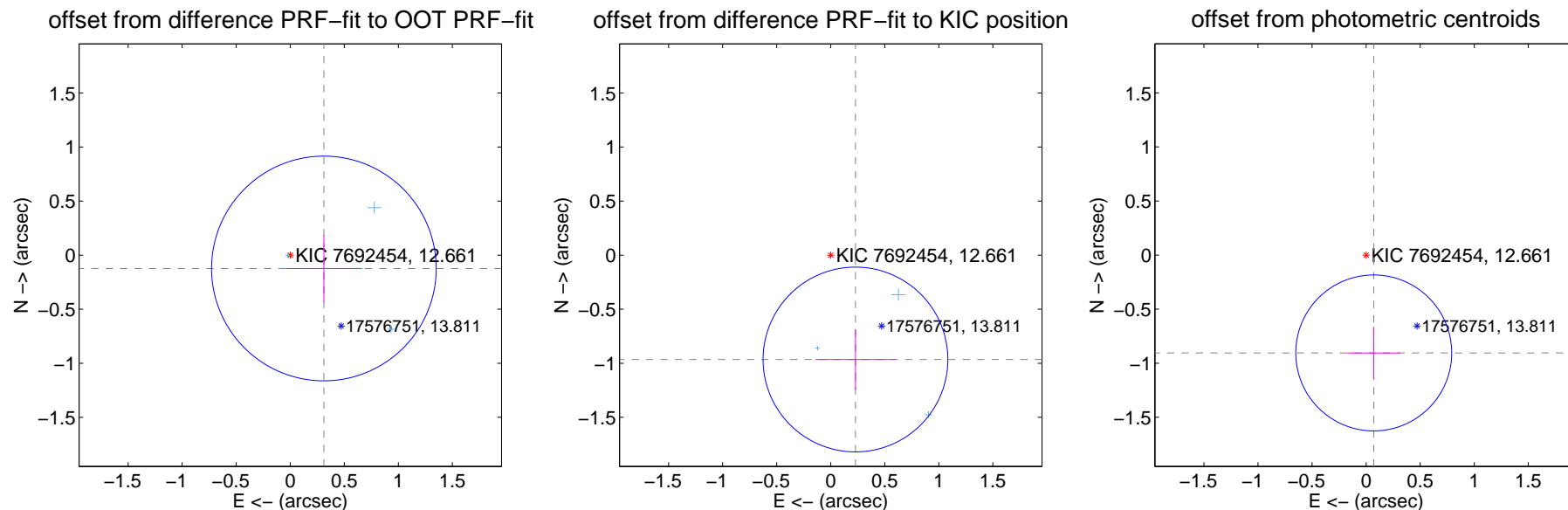
DV Centroid Data

Supplemental centroid analysis for 007692454-06. Kepler magnitude: 12.66. Transit SNR 7.84

There are 3 quarters with good PRF difference image offsets

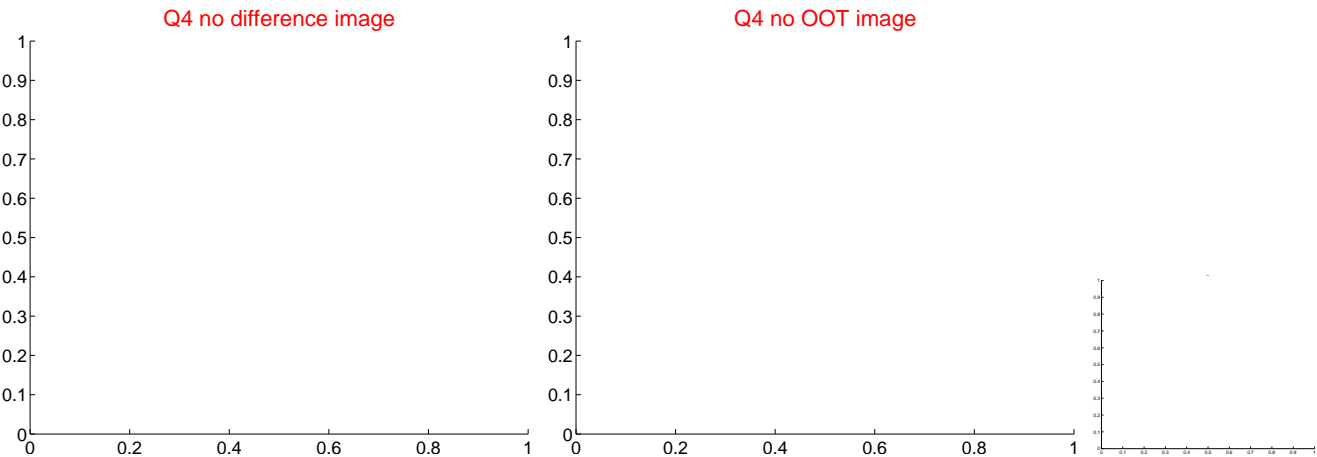
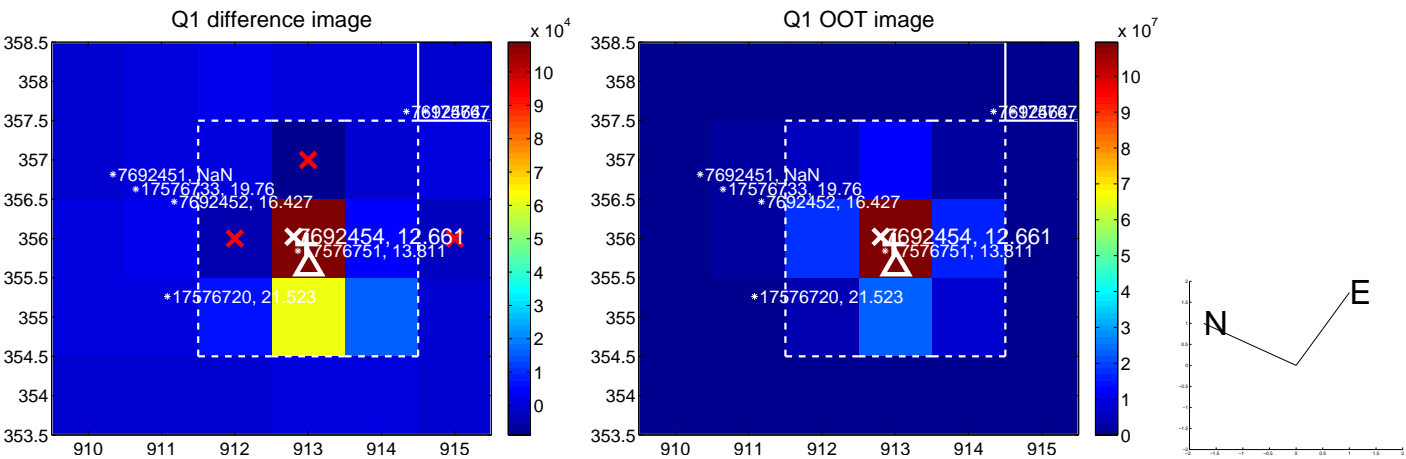
The direct PRF centroid is offset from the target star catalog position by about 0.82 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.335 ± 0.346	0.97	-0.311 ± 0.352	-0.123 ± 0.309
PRF-fit source offset from KIC position	0.992 ± 0.285	3.48	-0.229 ± 0.369	-0.965 ± 0.279
photometric centroid source offset	0.91 ± 0.24	3.78	-0.07 ± 0.25	-0.90 ± 0.24

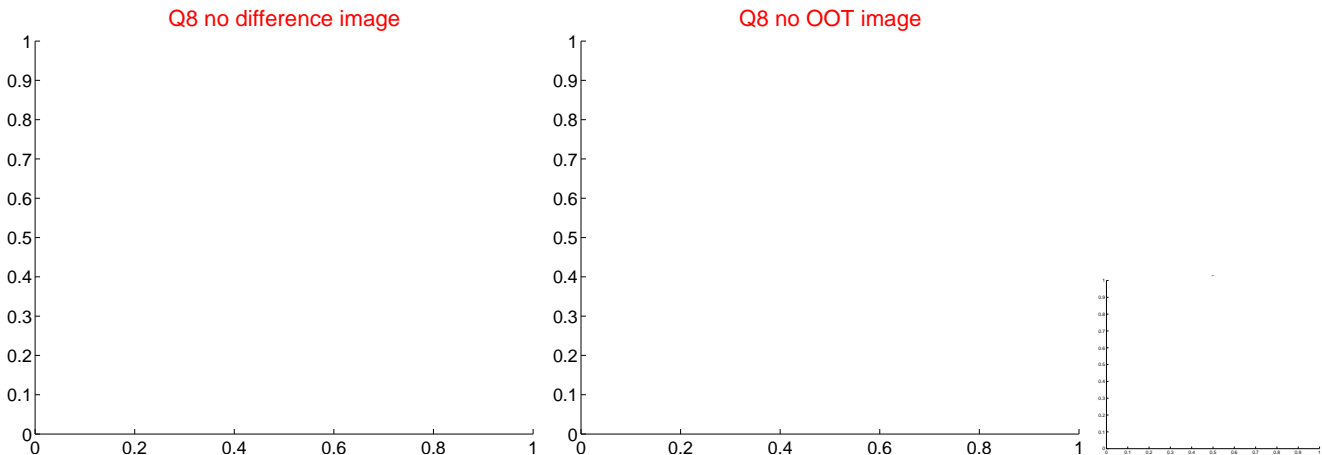
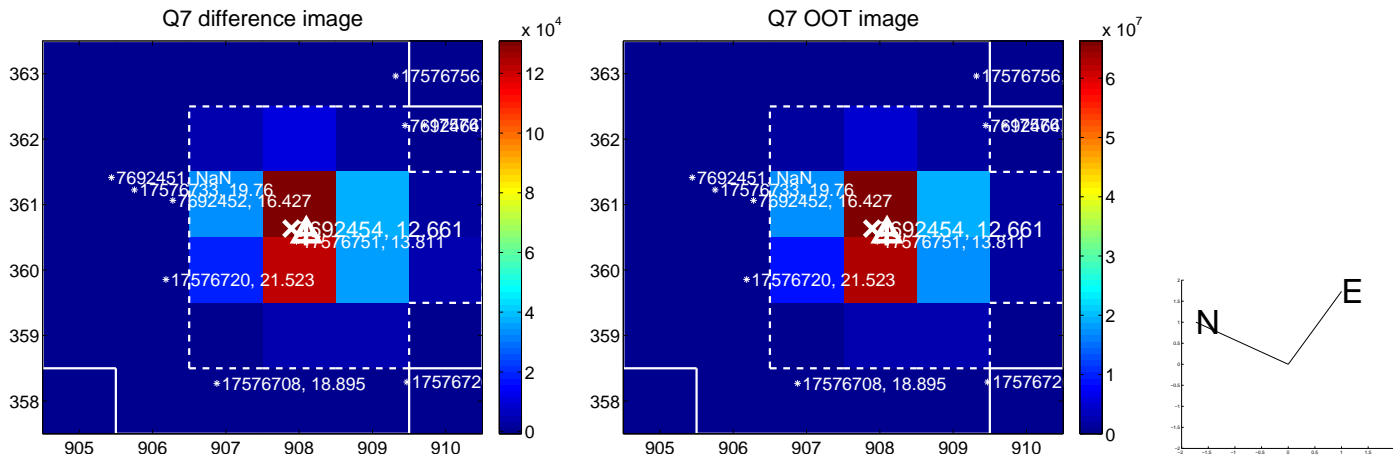
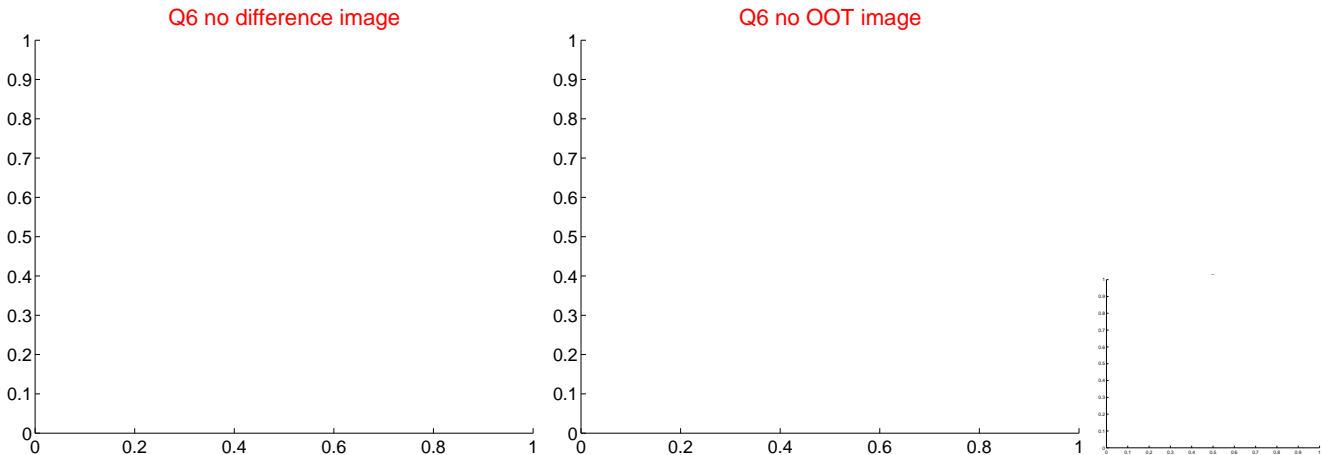
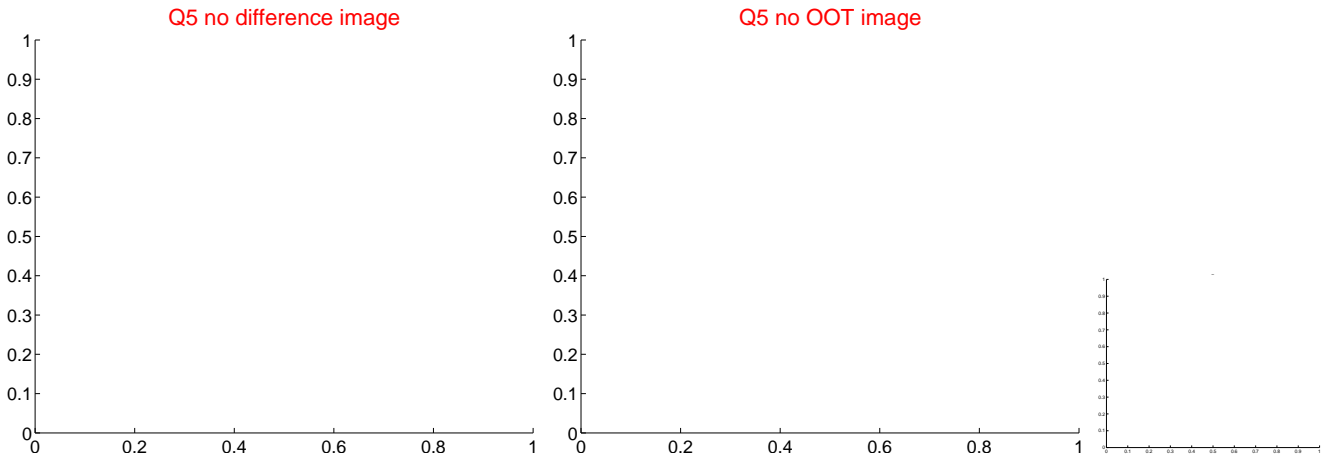


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

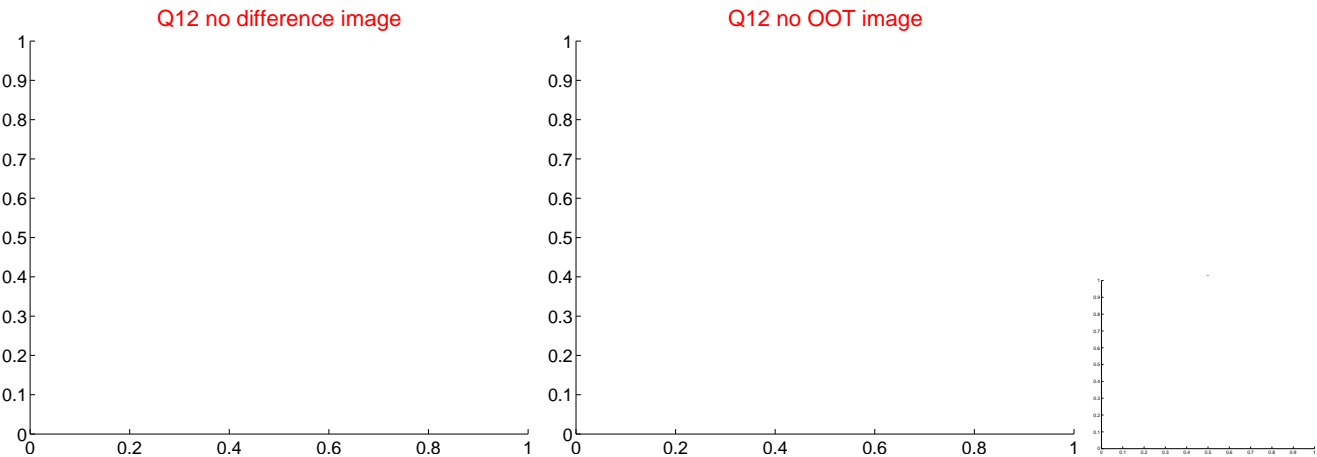
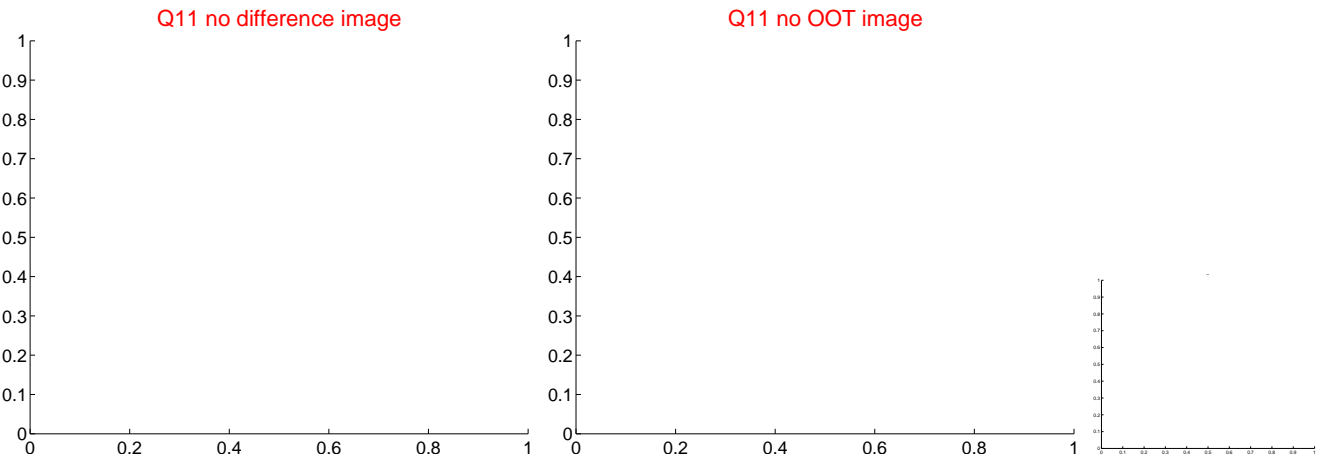
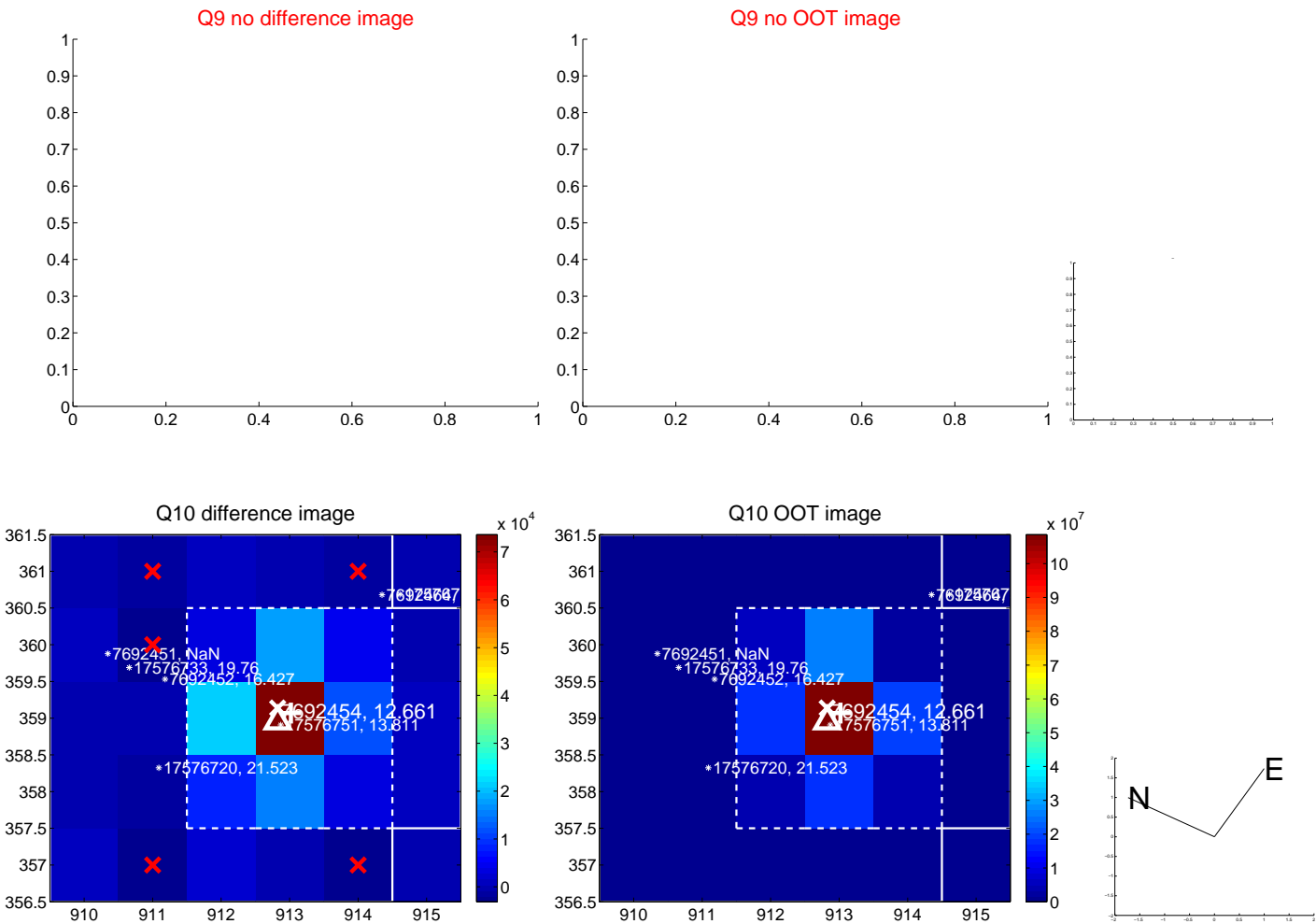
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



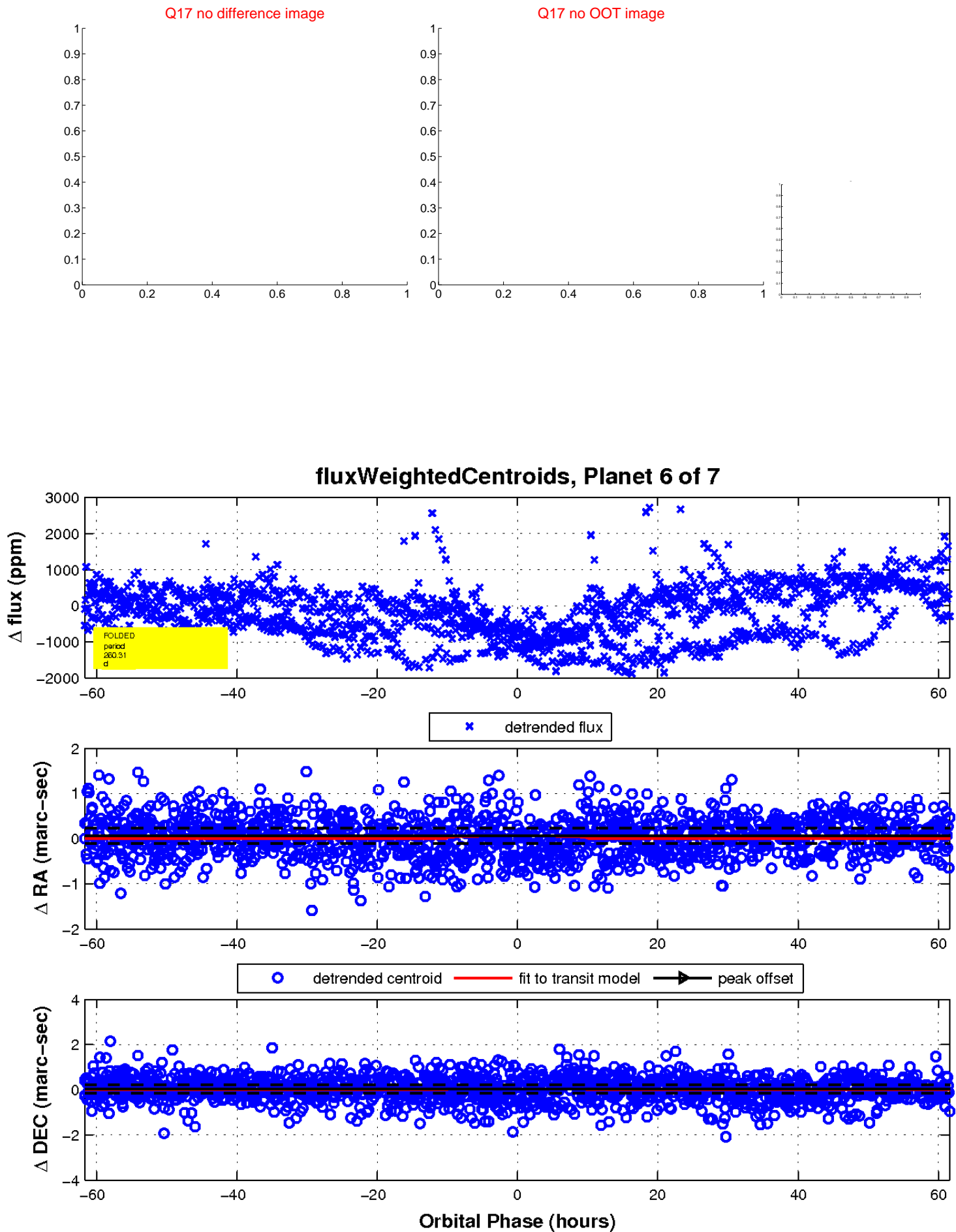
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

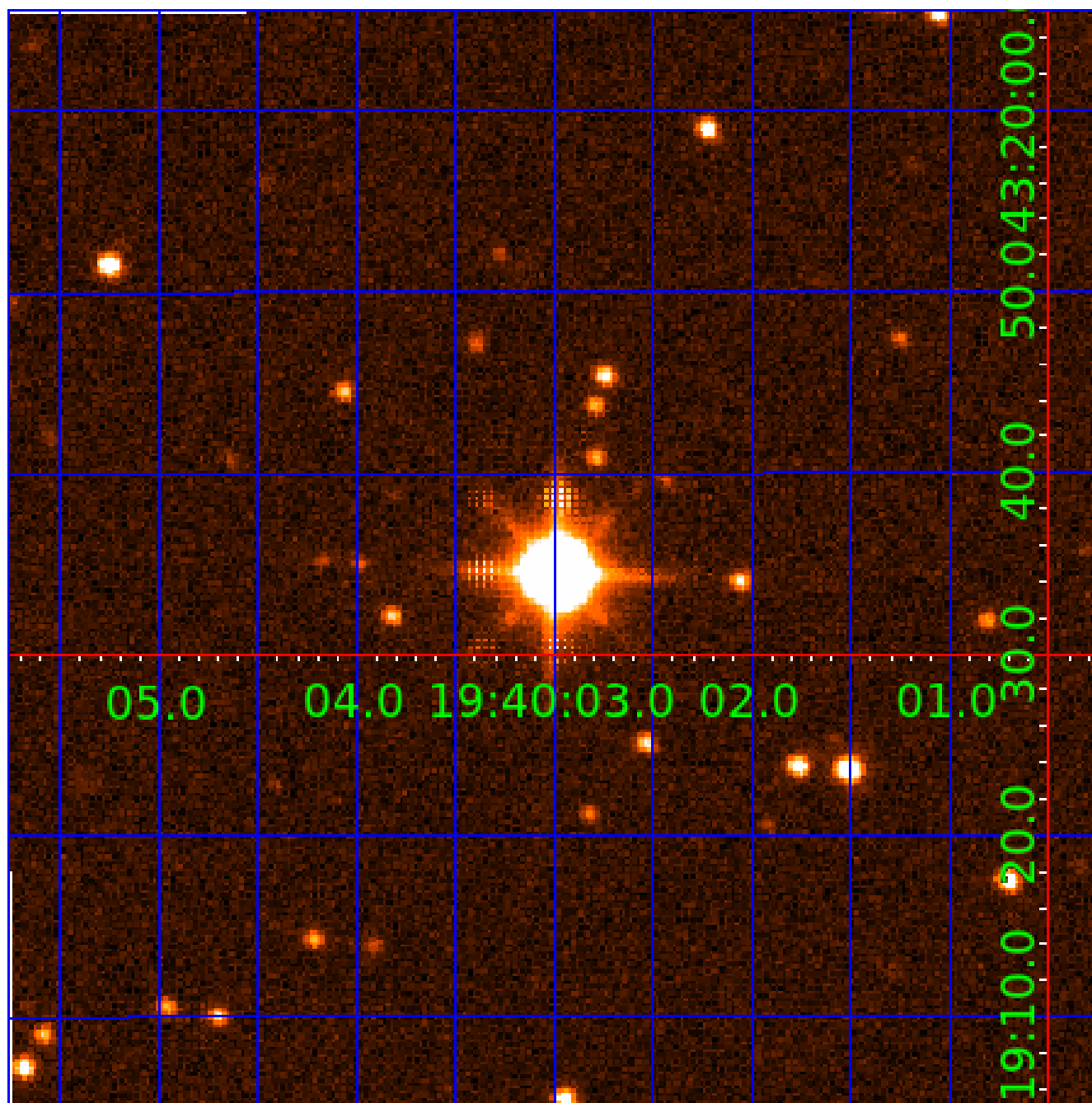


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007692454

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})
007692454-01	OBS	No	463.579119	465.695498	730.5	5.848	17.2	9.4	0.57	3824	1.54	0.07
007692454-02	OBS	No	562.082906	388.968425	662.8	7.800	13.6	8.4	0.57	3824	1.63	0.05
007692454-03	OBS	No	150.275605	268.118711	295.8	12.630	8.6	6.7	0.57	3824	1.01	0.30
007692454-04	OBS	No	184.868037	191.310191	0.3	2.119	10.5	0.0	0.57	3824	0.03	0.23
007692454-05	OBS	No	481.339751	402.834615	159.6	12.500	10.1	-1.0	0.57	3824	0.70	0.06
007692454-06	OBS	No	260.314904	135.229871	525.6	20.584	10.4	7.8	0.57	3824	1.32	0.14
007692454-07	OBS	No	408.803368	226.342411	503.1	4.965	10.5	6.9	0.57	3824	1.44	0.08

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007692454-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007692454-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—CENT_FEW_DIFFS
007692454-03	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—MOD_POS_DV—CENT_KIC_POS—HALO_GHOST
007692454-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_MEAS
007692454-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_SKYE—LPP_DV—INCONSISTENT_TRANS—CENT_NOFITS—HALO_GHOST
007692454-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_DV—CENT_KIC_POS
007692454-07	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_KIC_POS

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

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

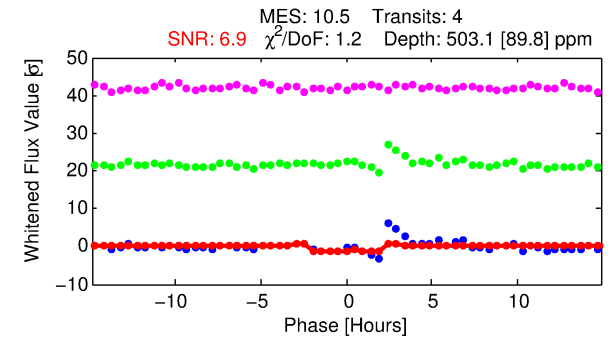
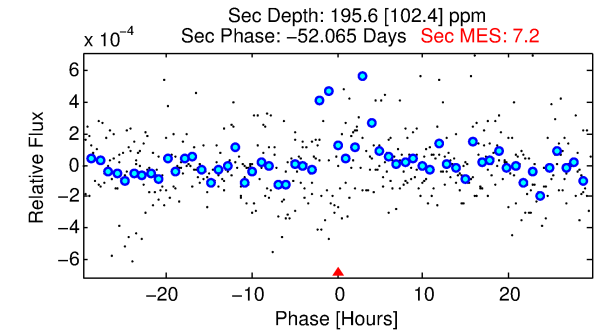
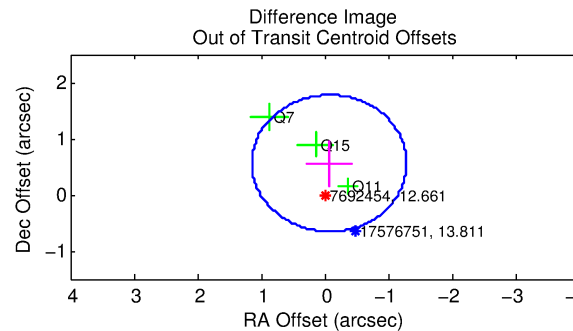
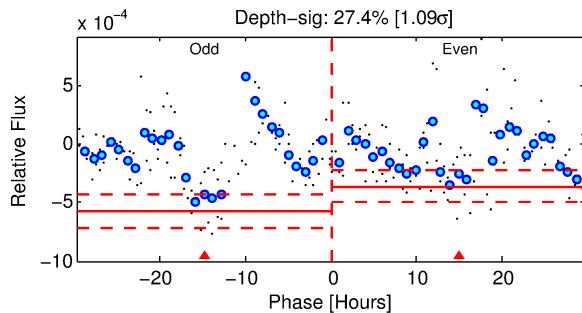
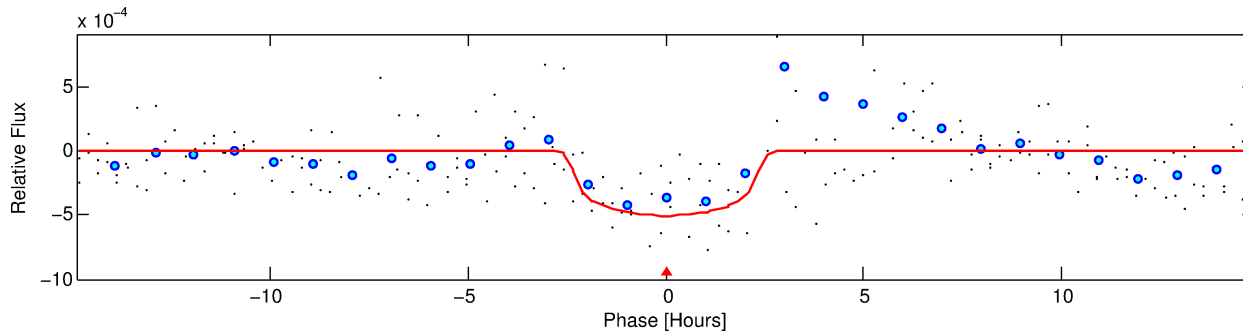
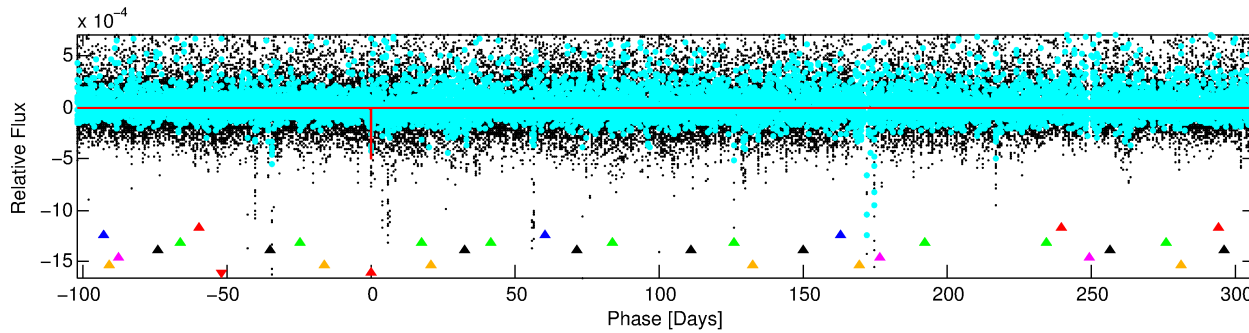
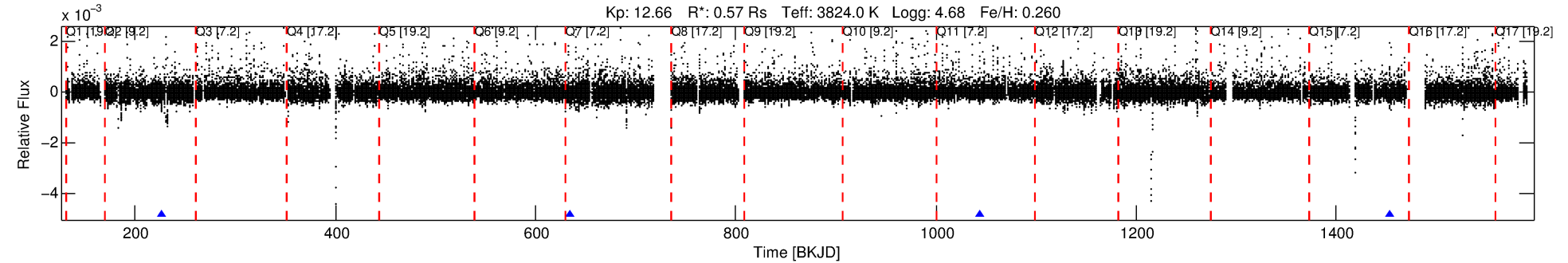
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007692454-07

No Significant Match Found

DV One-Page Summary

KIC: 7692454 Candidate: 7 of 7 Period: 408.803 d



DV Fit Results:

Period = 408.80337 [0.00469] d
Epoch = 226.3424 [0.0096] BKJD
Rp/R* = 0.0230 [0.0106]
a/R* = 402.74 [662.05]
b = 0.80 [0.76]
Seff = 0.08 [0.02]
Teq = 135 [7] K
Rp = 1.44 [0.69] Re
a = 0.8998 [0.0936] AU
Ag = 41980.84 [44964.34] [0.93 σ]
Teffp = 2985 [800] K [3.56 σ]

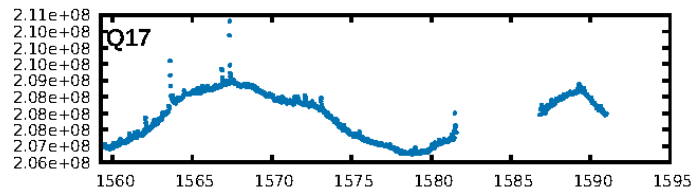
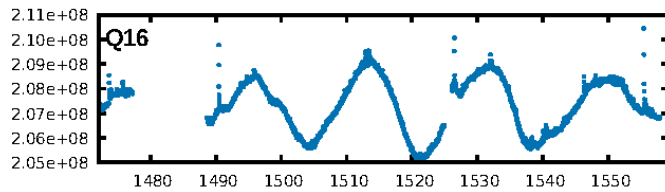
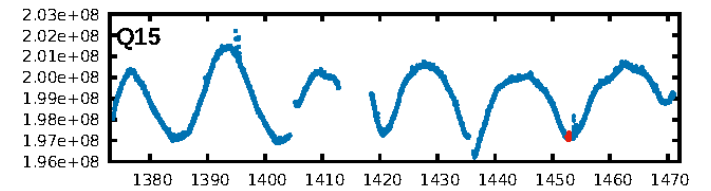
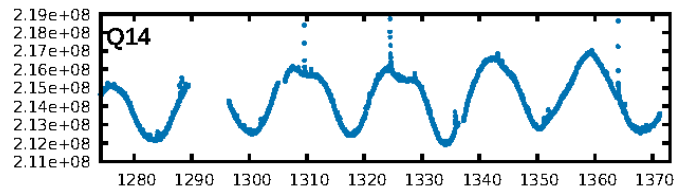
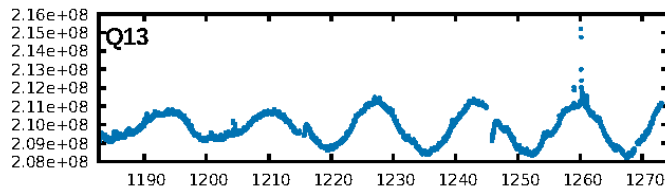
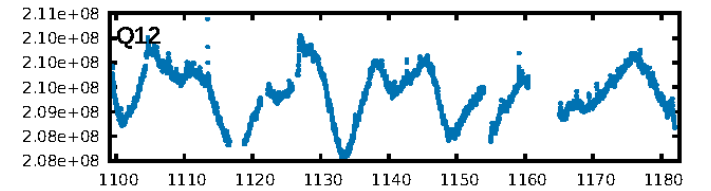
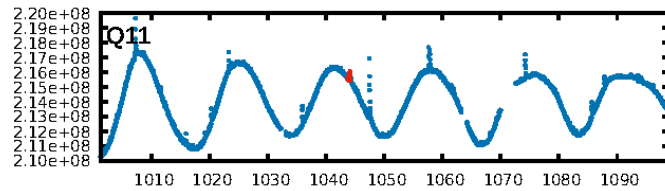
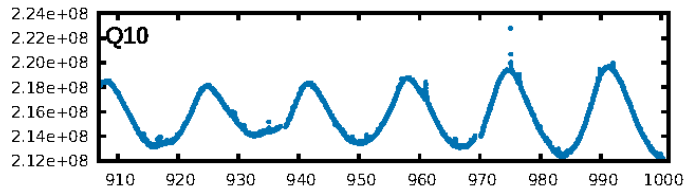
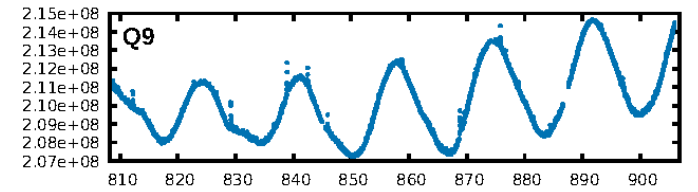
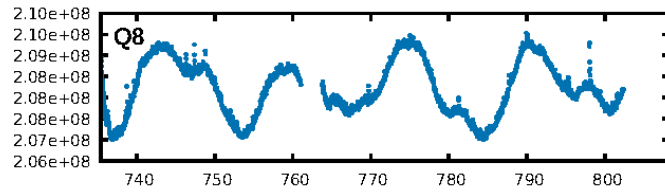
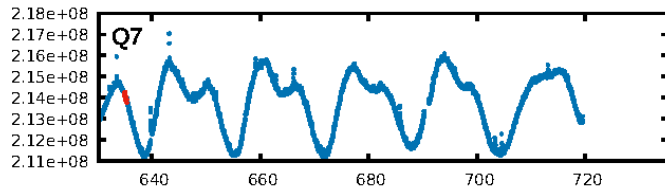
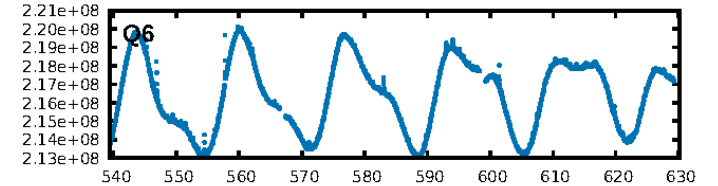
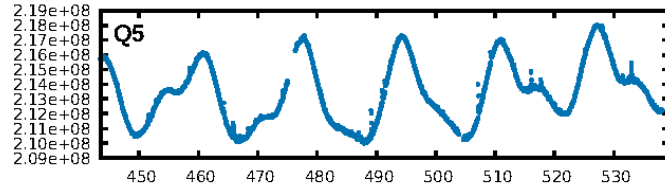
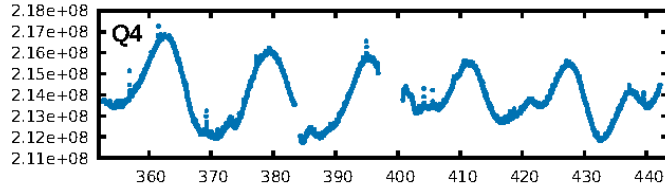
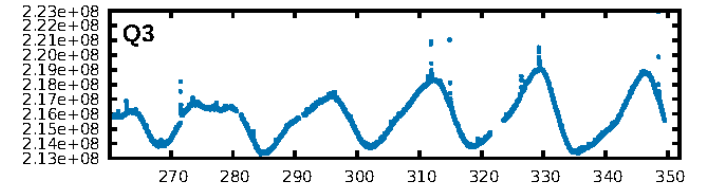
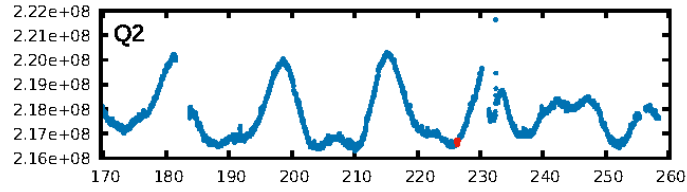
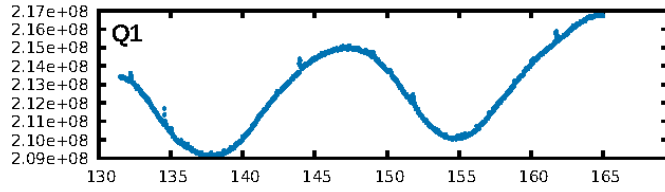
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [168.30 σ]
LongPeriod-sig: 100.0% [171.37 σ]
ModelChiSquare2-sig: 44.0%
ModelChiSquareGof-sig: 89.9%
Bootstrap-pfa: 1.17e-08
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.7944
Centroid-sig: 25.9%
Centroid-so: 1.226 arcsec [2.57 σ]
OotOffset-rm: 0.564 arcsec [1.39 σ]
OotOffset-st: 0/3/0/0 [3]
KicOffset-rm: 0.349 arcsec [0.90 σ]
KicOffset-st: 0/3/0/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [4/4]

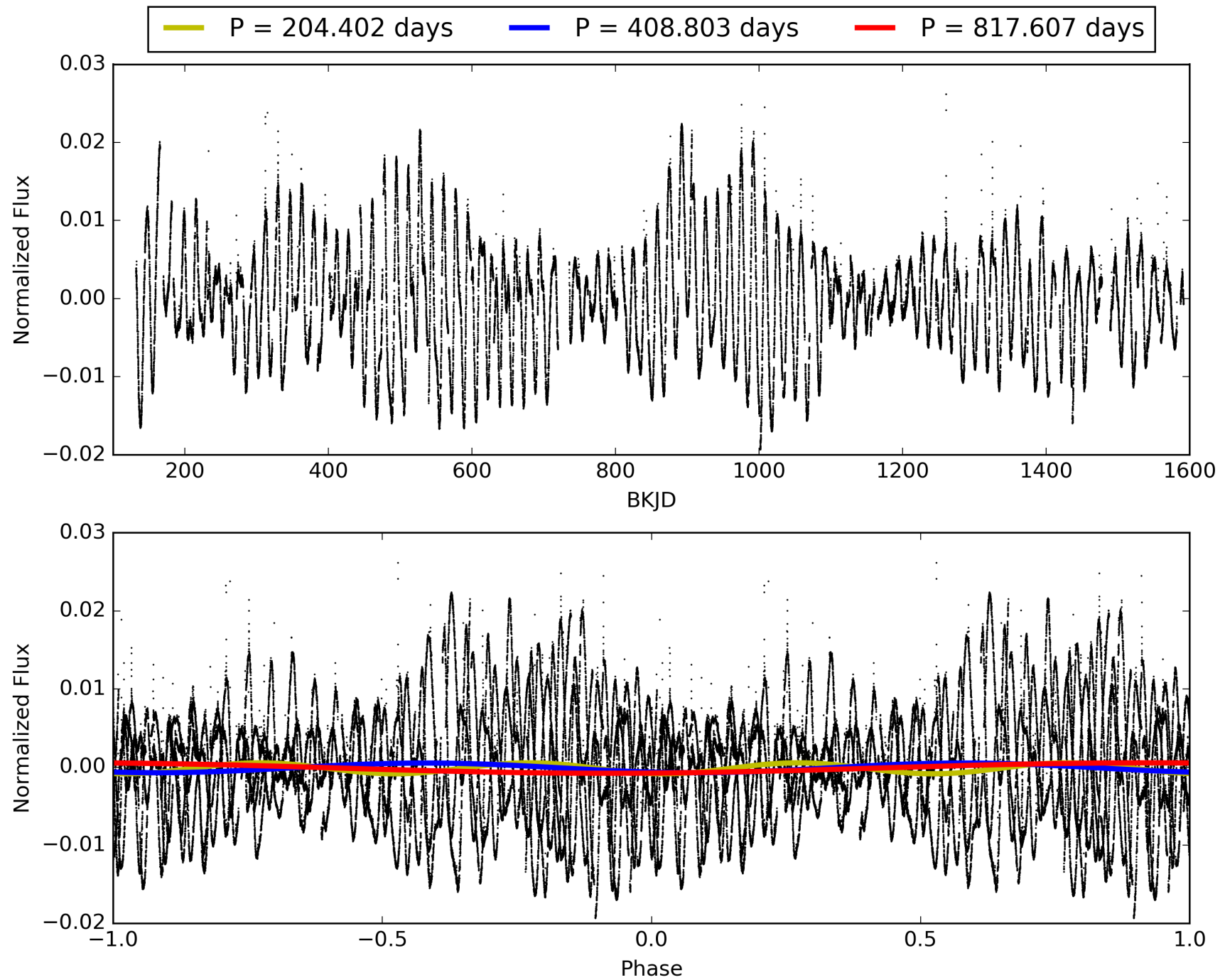
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 08:58:50 Z

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

TCE 007692454-07, PDC Light Curves

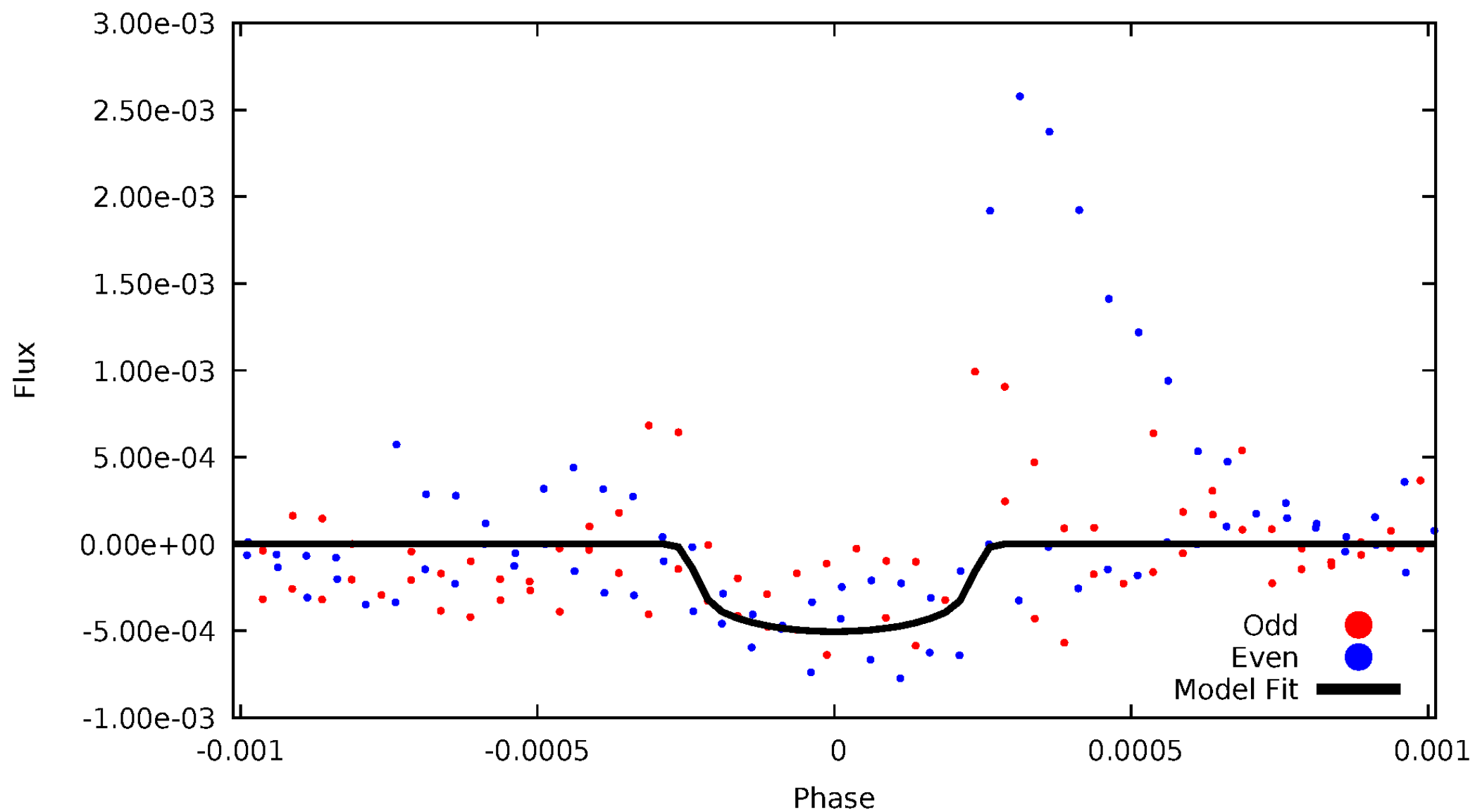


TCE 007692454-07



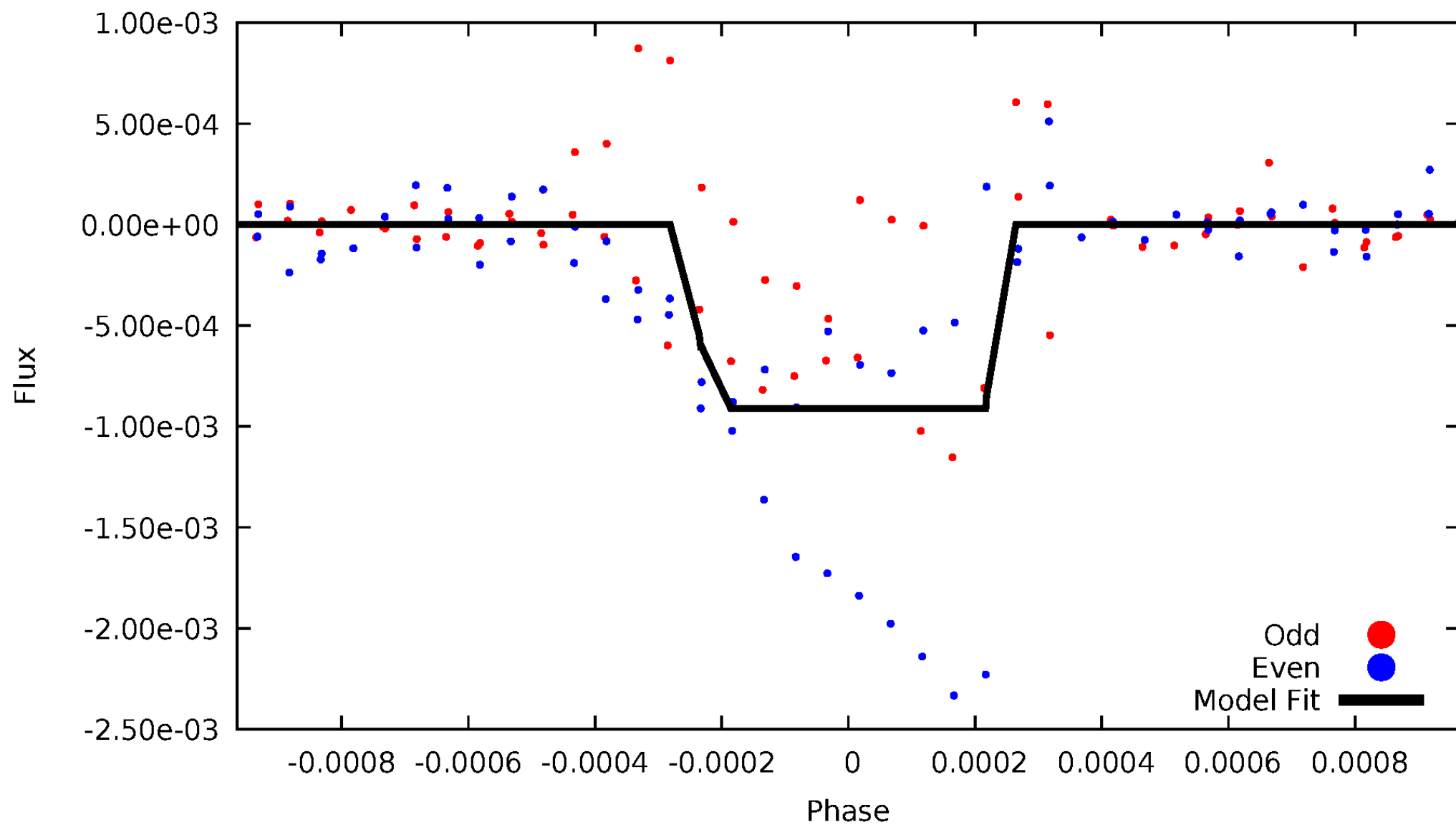
DV Odd/Even

TCE 007692454-07



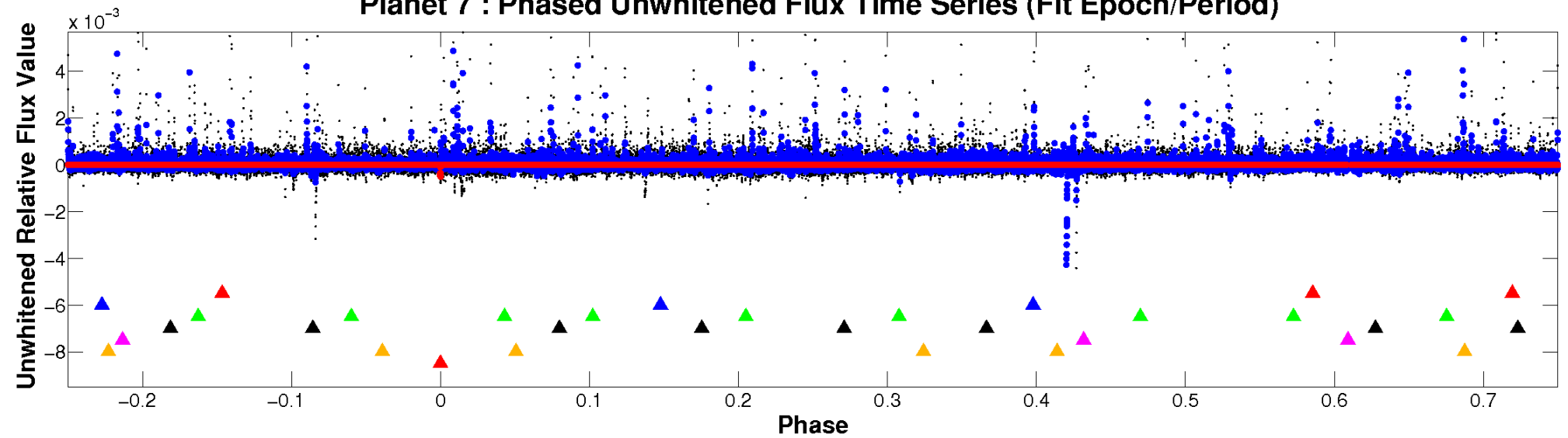
ALT Odd/Even

TCE 007692454-07

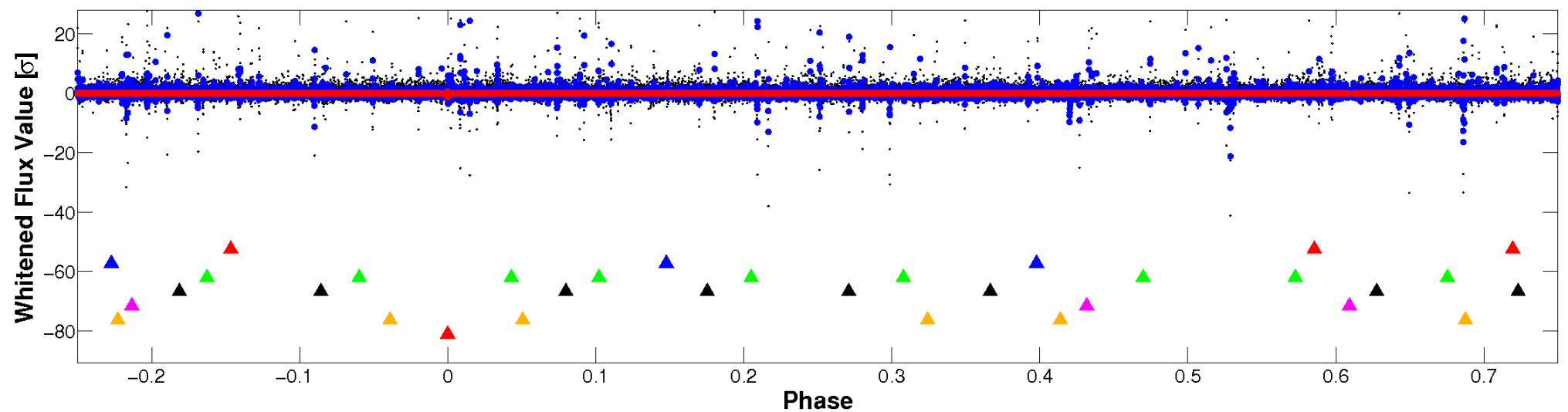


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

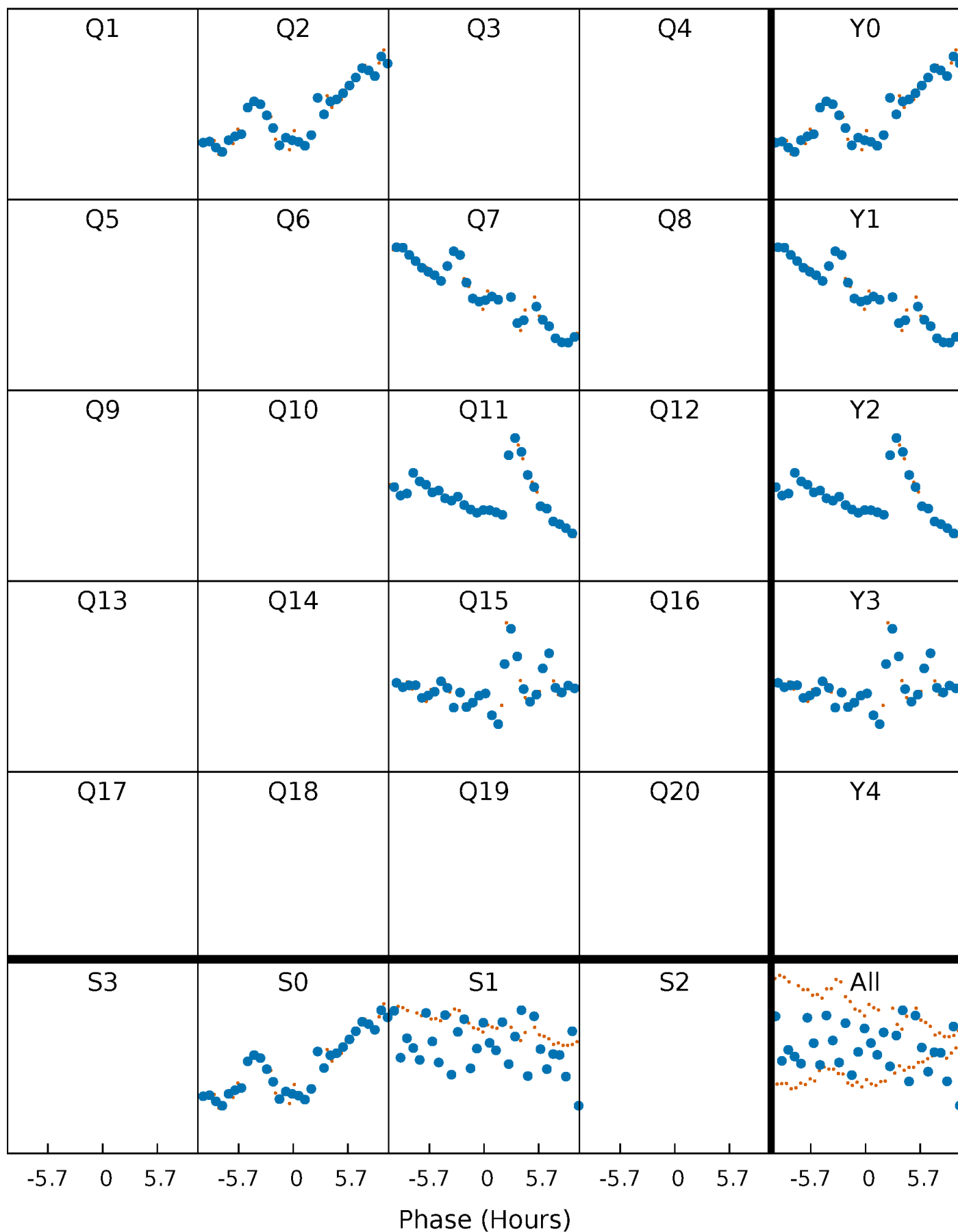


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



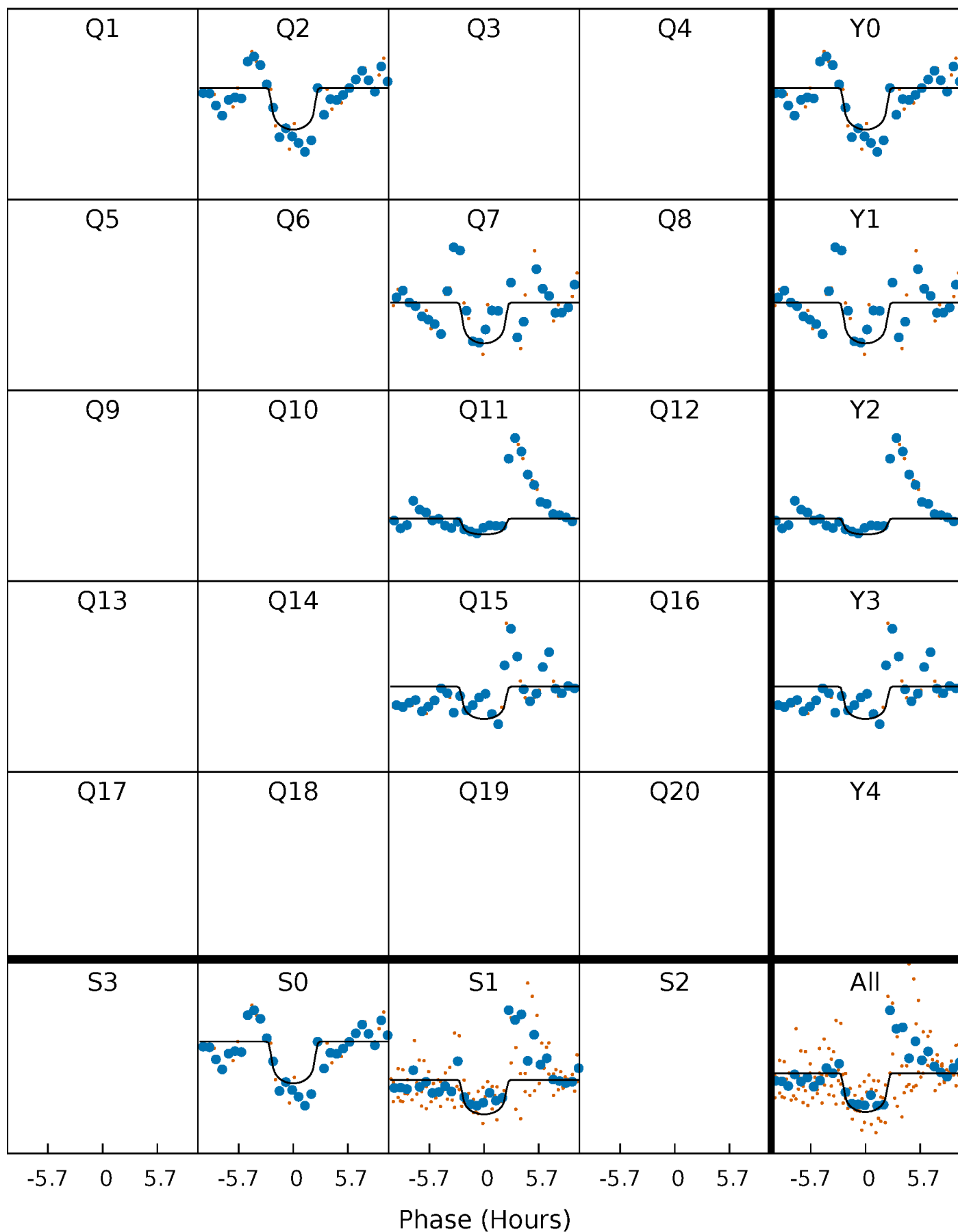
PDC Quarter-Phased Transit Curves

TCE 007692454-07 $P=408.803368$ Days $T_0=226.342411$ (BKJD)



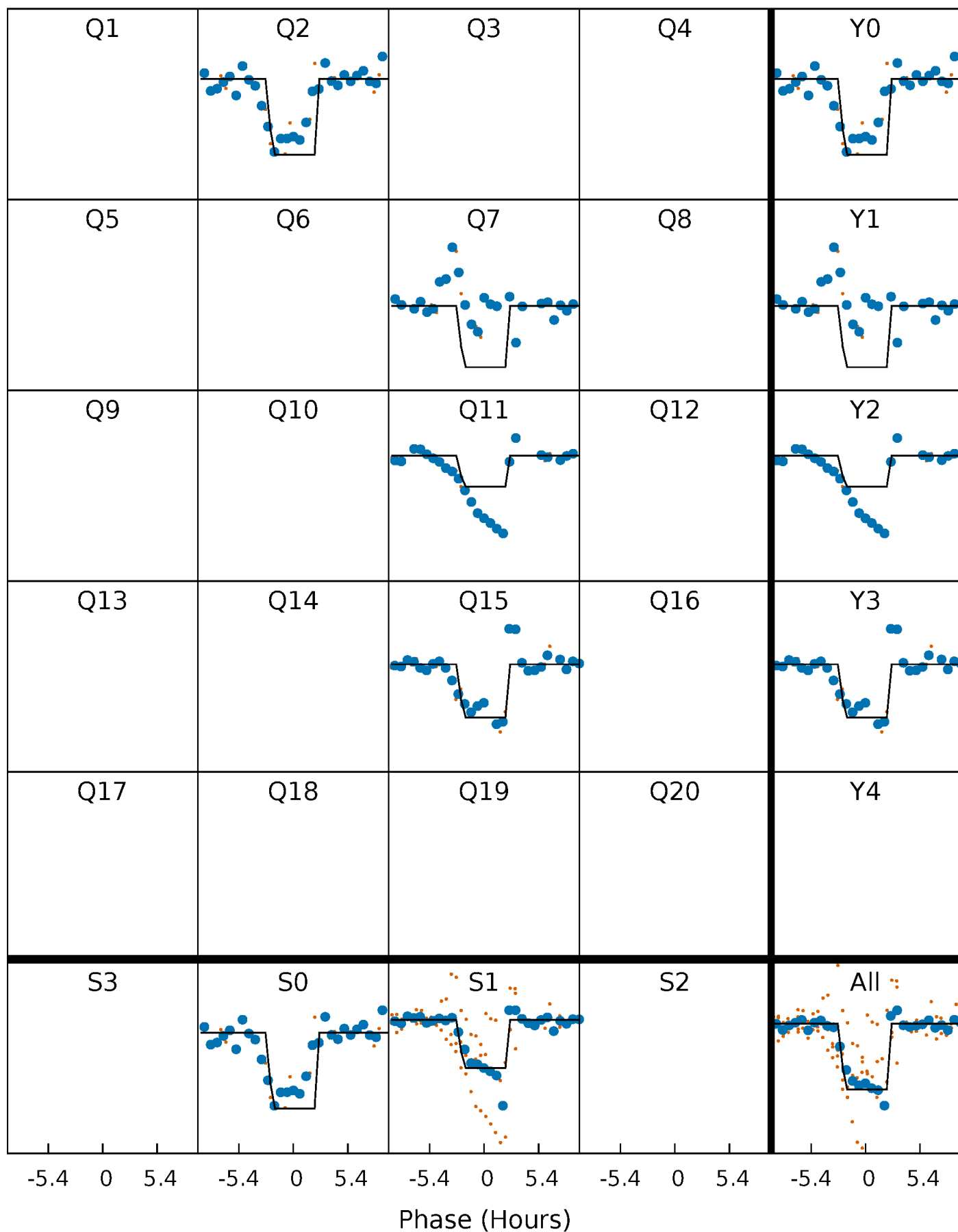
DV Quarter-Phased Transit Curves

TCE 007692454-07 $P=408.803368$ Days $T_0=226.342411$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

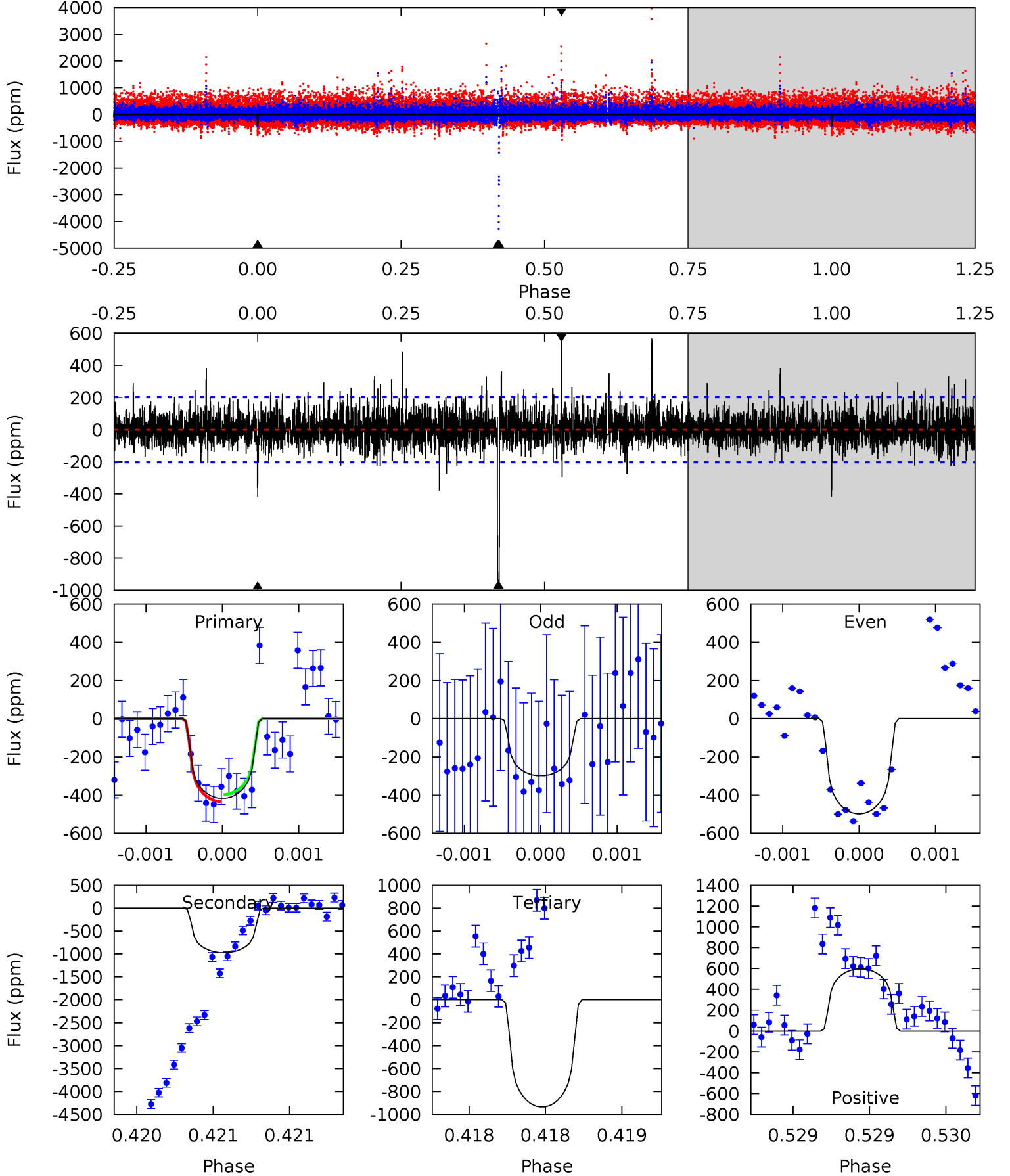
TCE 007692454-07 P=408.793801 Days $T_0=226.359755$ (BKJD)



DV Model-Shift Uniqueness Test

007692454-07, P = 408.803368 Days, E = 226.342411 Days

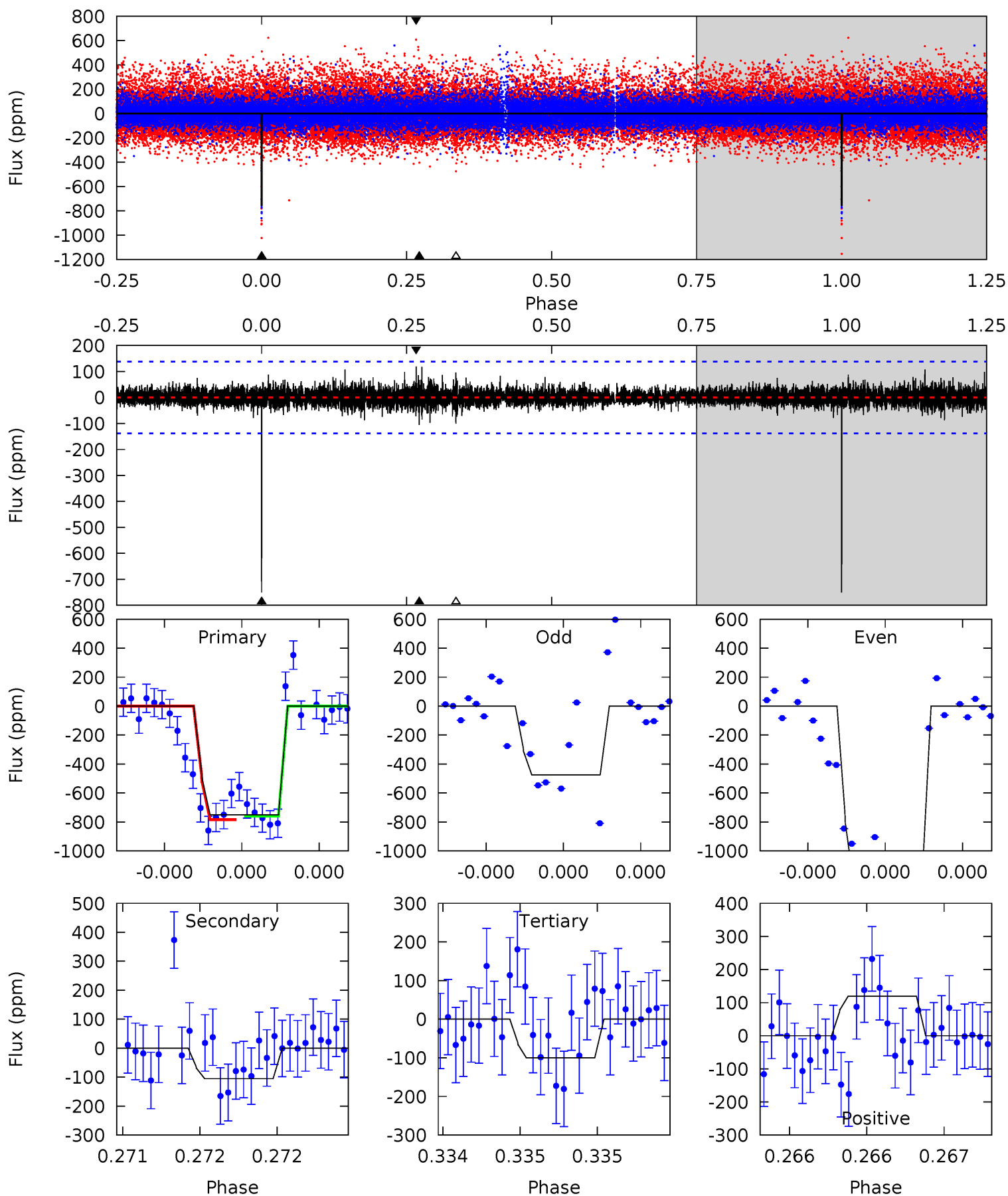
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.5	26.7	25.7	16.4	5.56	3.46	2.13	-14.2	-4.92	1.06	10.4	2.24	1.24	0.38	0.51



Alt Model-Shift Uniqueness Test

007692454-07, P = 408.793801 Days, E = 226.359755 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.4	4.27	4.05	4.82	5.59	3.51	0.78	26.3	25.6	0.22	-0.55	18.5	1.16	0.14	0.45



Stellar Parameters For KIC 007692454

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	3824^{+120}_{-147}	$4.683^{+0.072}_{-0.023}$	$0.260^{+0.200}_{-0.300}$	$0.575^{+0.035}_{-0.076}$	$0.581^{+0.045}_{-0.073}$	$4.301^{+1.559}_{-0.421}$
	+3%/-4%	+2%/-0%	+77%/-115%	+6%/-13%	+8%/-13%	+36%/-10%
Source	KIC0	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 007692454-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-974 ± 36	$1.39^{+0.70}_{-0.61}$	186^{+7}_{-8}	4252^{+1230}_{-555}	$223876^{+477027}_{-123600}$
Alt.	-105 ± 25	$1.87^{+0.69}_{-0.63}$	186^{+7}_{-8}	2746^{+347}_{-232}	13391^{+16363}_{-6609}

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

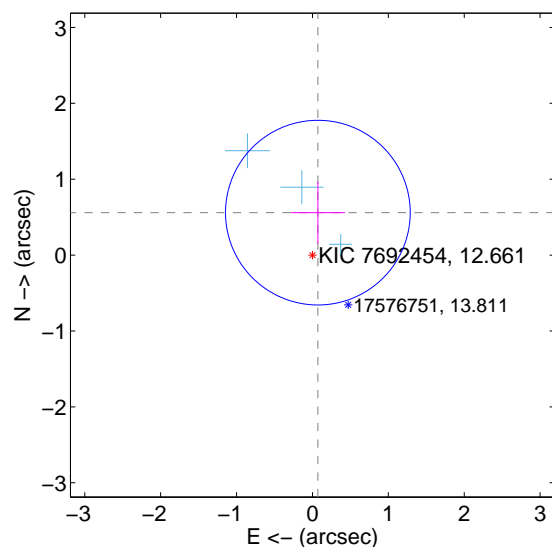
Supplemental centroid analysis for 007692454-07. Kepler magnitude: 12.66. Transit SNR 6.92

There are 3 quarters with good PRF difference image offsets

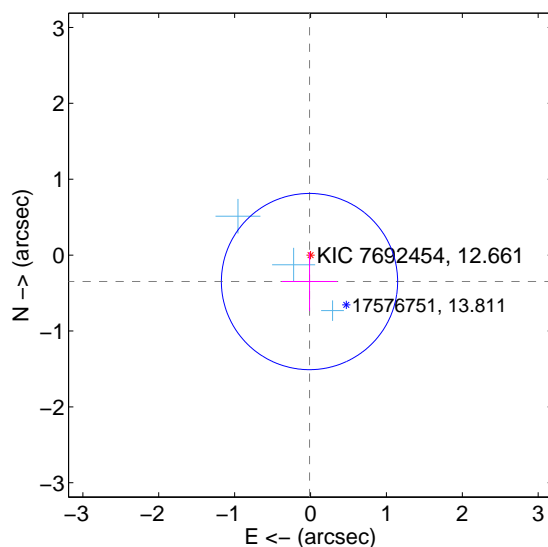
The direct PRF centroid is offset from the target star catalog position by about 1.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.564 ± 0.406	1.39	-0.072 ± 0.358	0.559 ± 0.406
PRF-fit source offset from KIC position	0.349 ± 0.387	0.90	0.014 ± 0.362	-0.349 ± 0.387
photometric centroid source offset	1.23 ± 0.48	2.57	0.26 ± 0.46	-1.20 ± 0.48

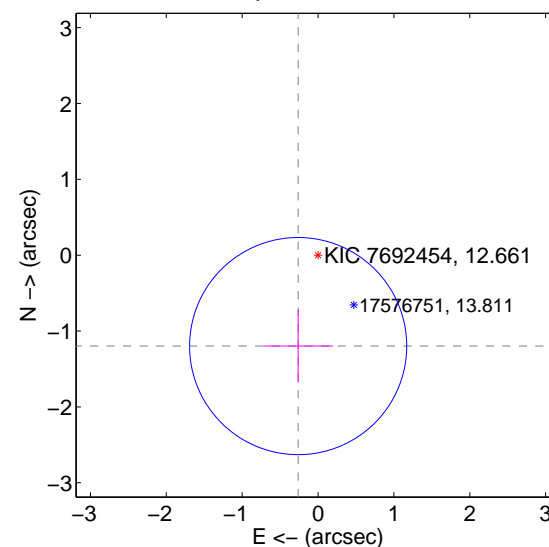
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids



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

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

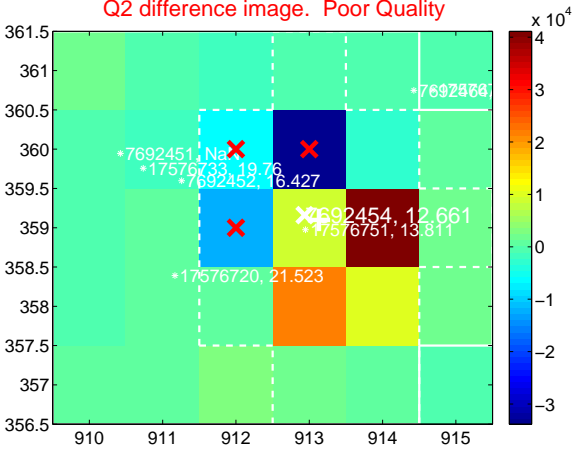
Q1 no difference image



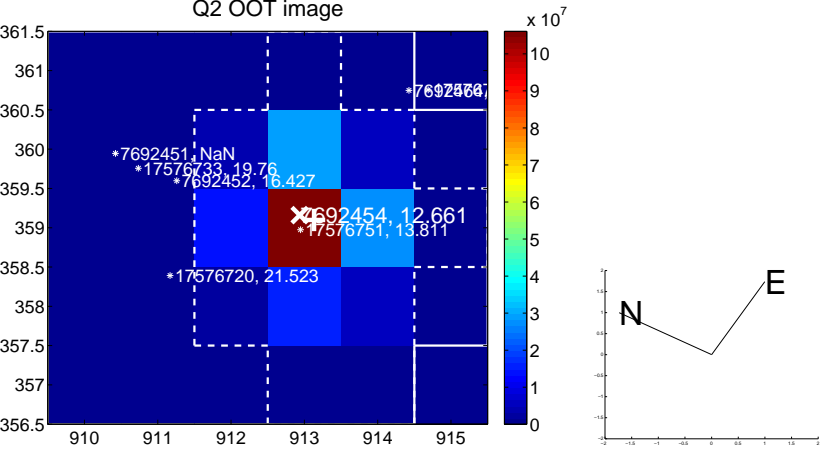
Q1 no OOT image



Q2 difference image. Poor Quality



Q2 OOT image



Q3 no difference image



Q3 no OOT image



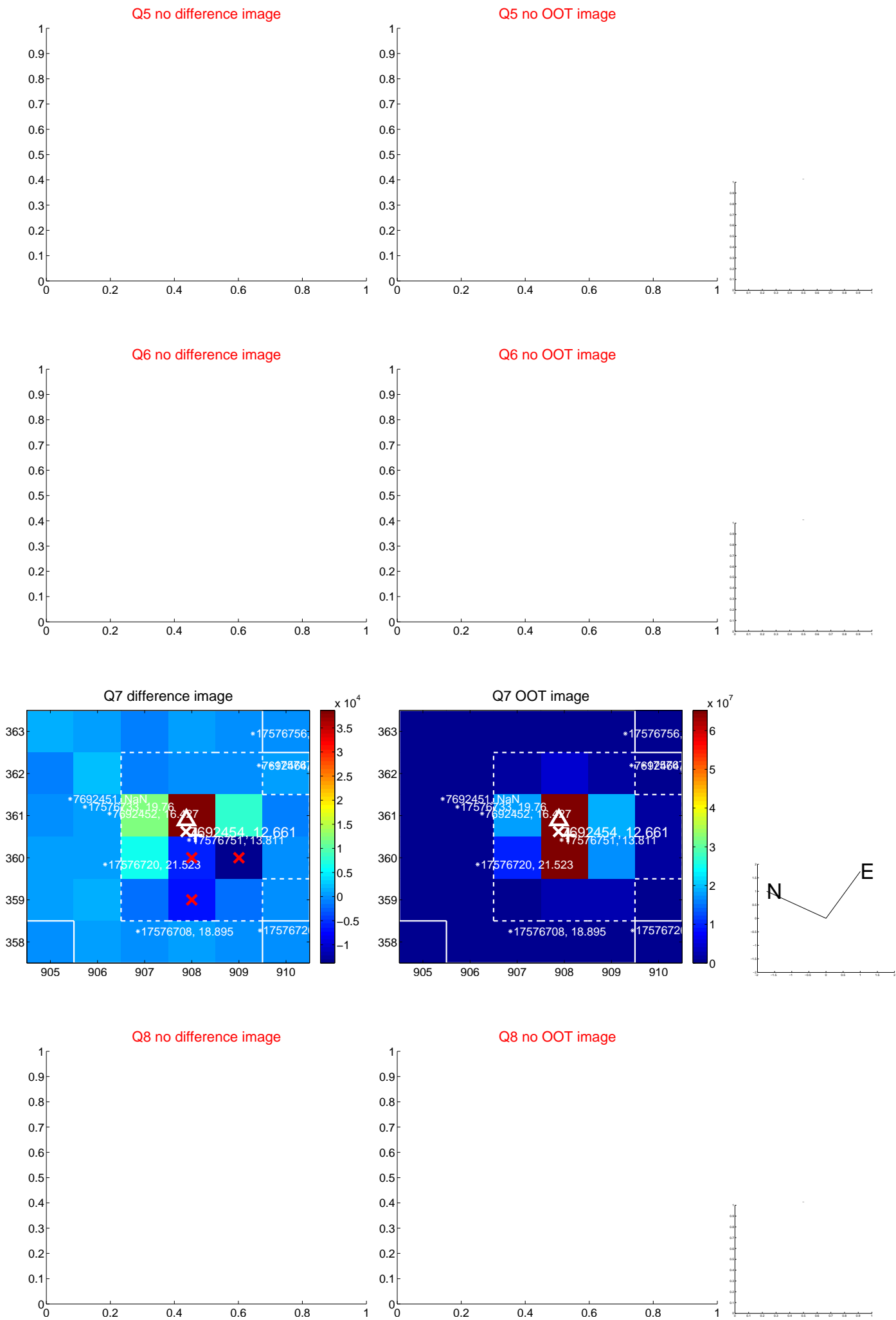
Q4 no difference image



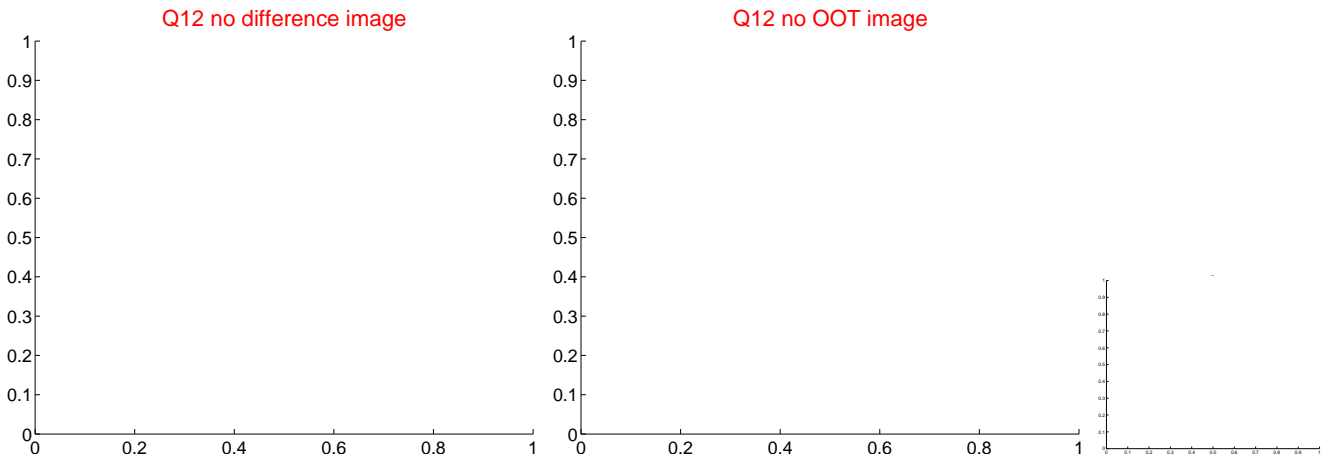
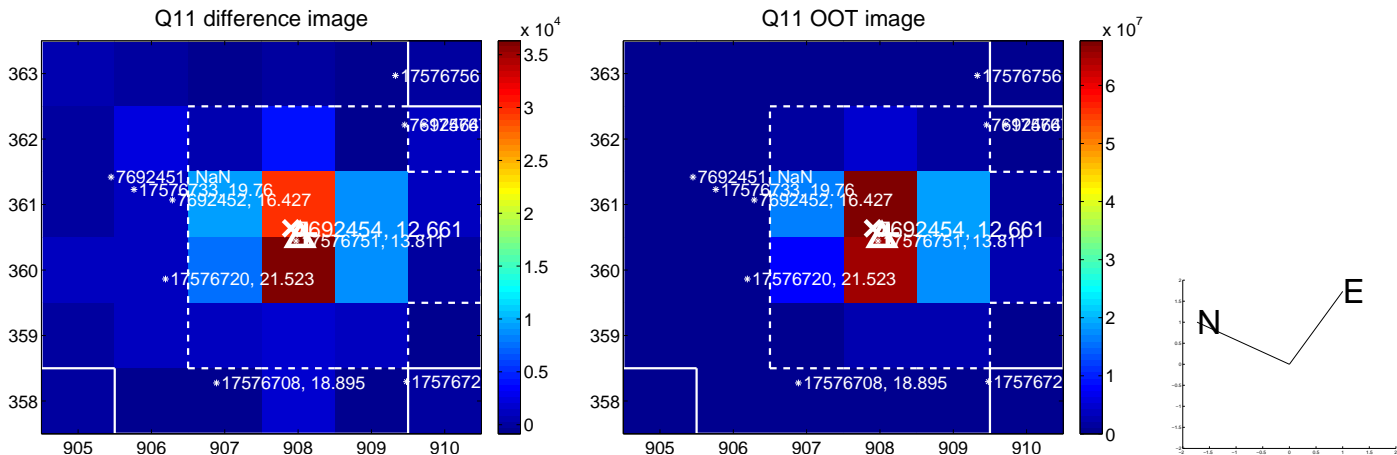
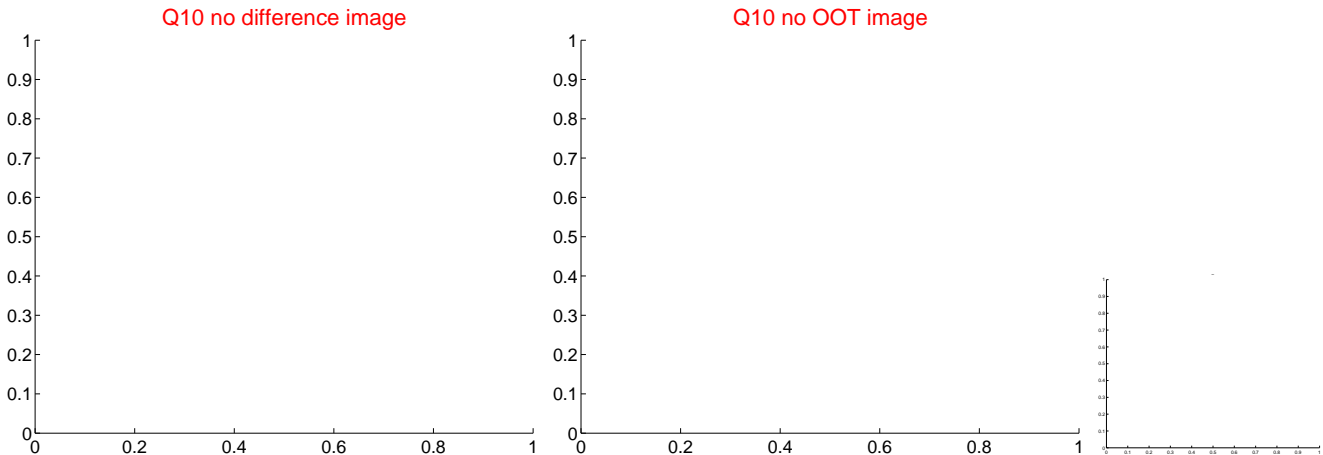
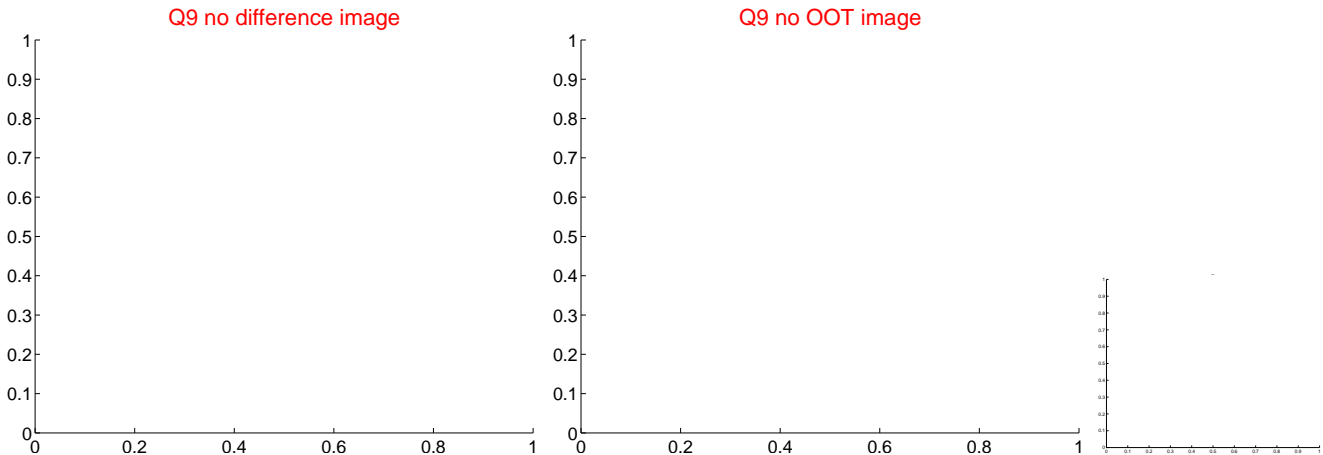
Q4 no OOT image



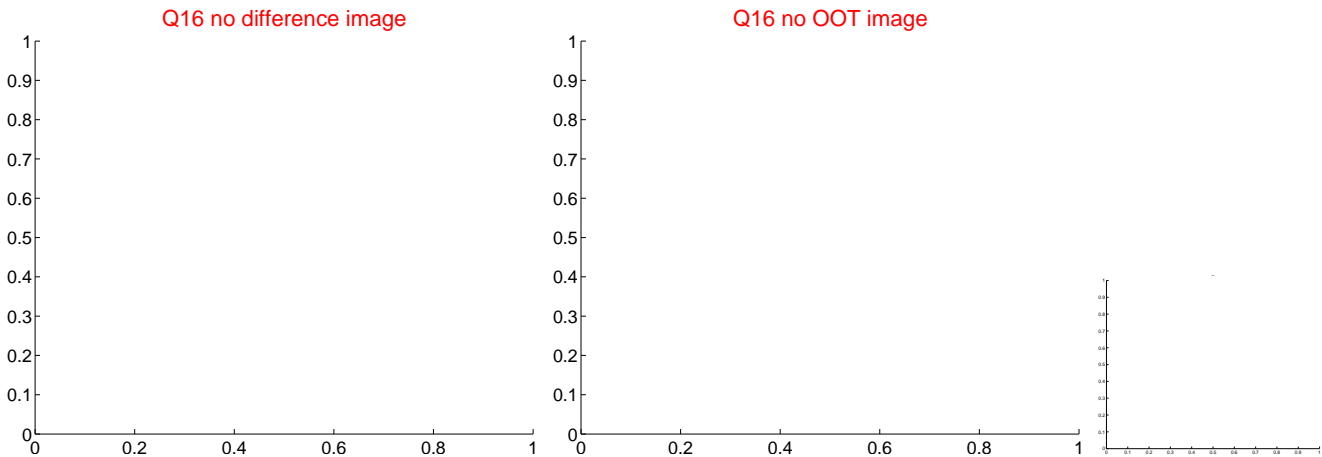
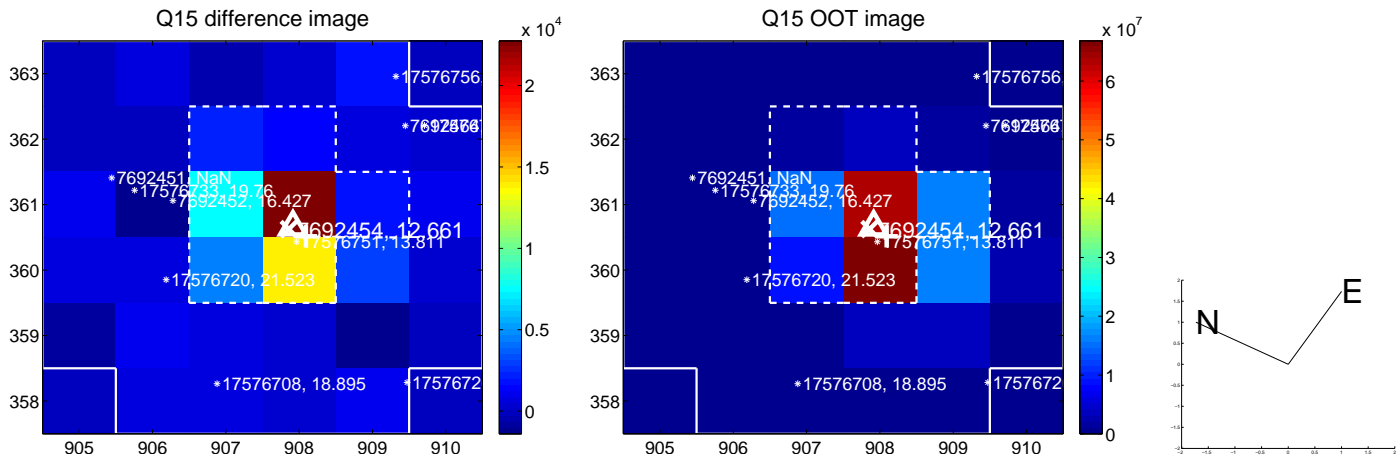
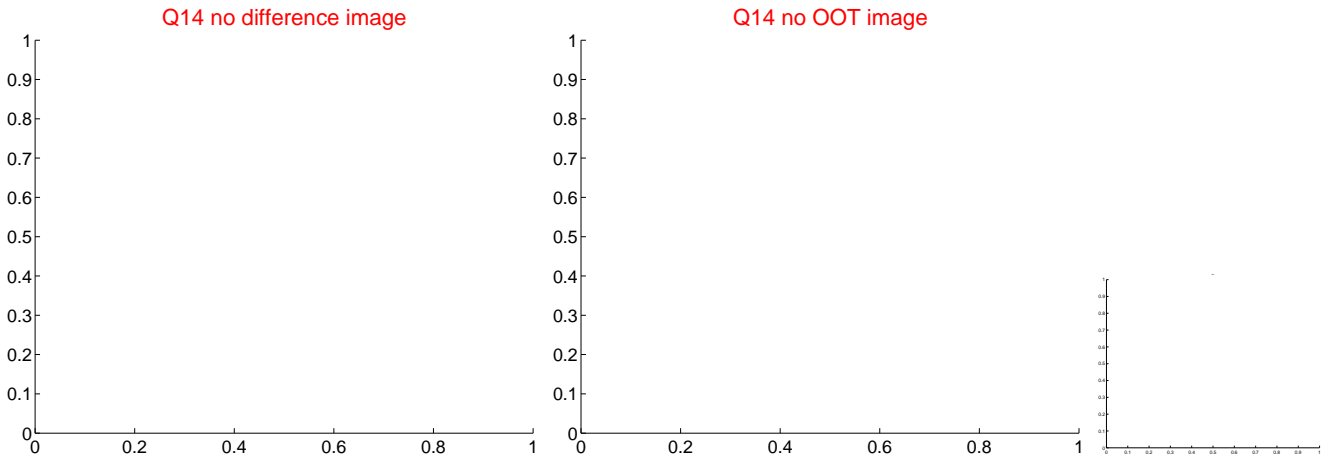
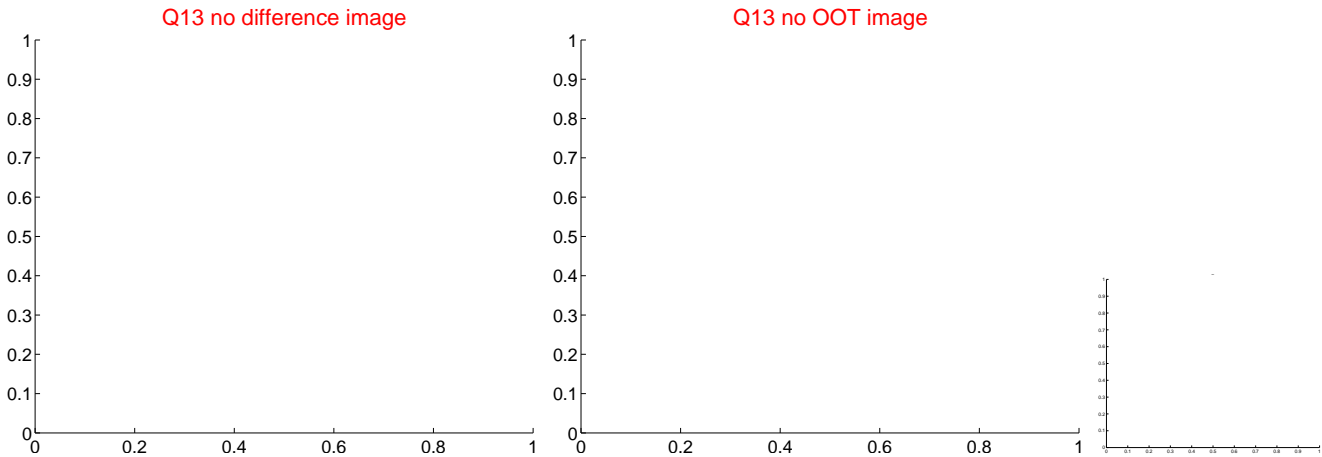
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



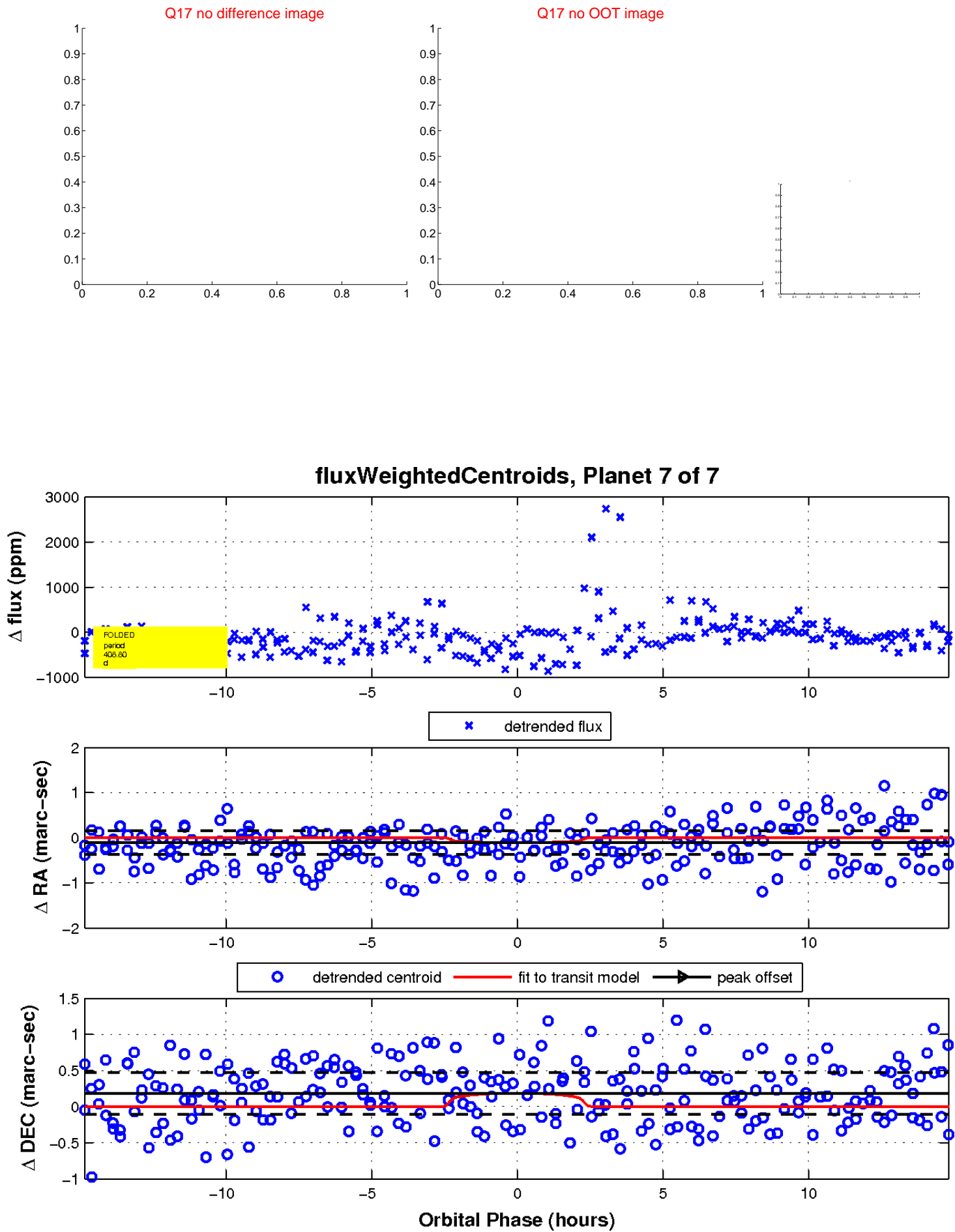
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

