

KIC 006269092

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})
006269092-02	OBS	No	267.961658	190.578627	871.6	7.617	16.1	5.3	0.64	4518	1.80	0.31
006269092-03	OBS	No	517.620859	426.685371	1360.5	11.300	18.6	6.2	0.64	4518	3.57	0.13
006269092-04	OBS	No	615.787420	162.699793	1045.7	3.639	16.4	7.5	0.64	4518	2.24	0.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006269092-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006269092-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
006269092-04	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

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

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

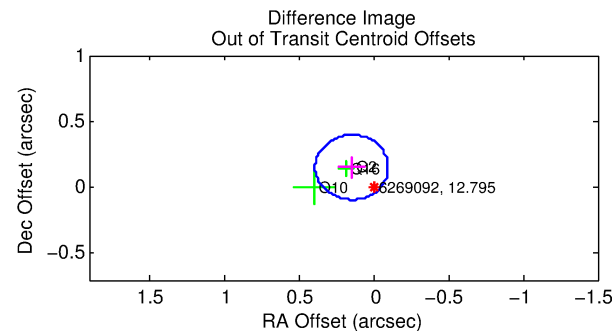
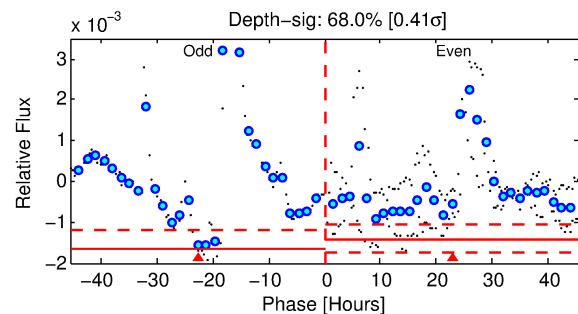
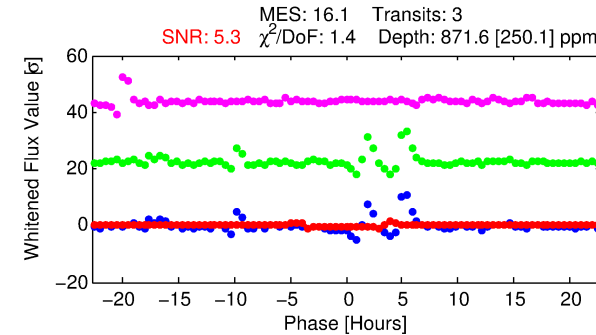
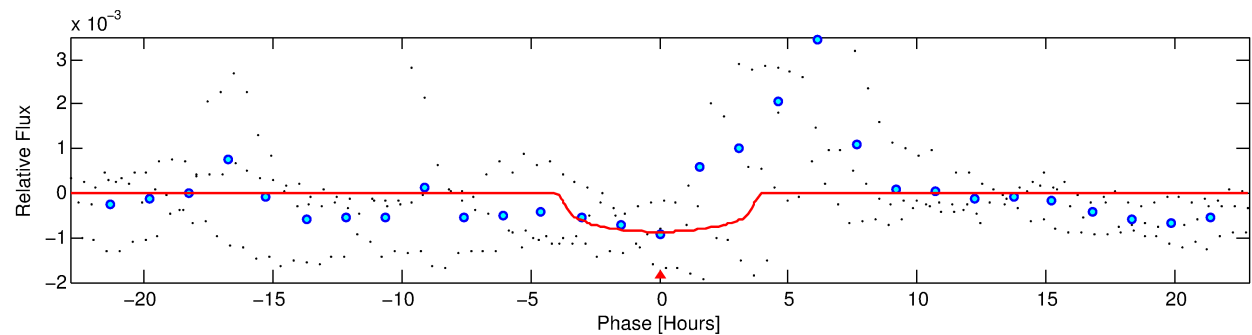
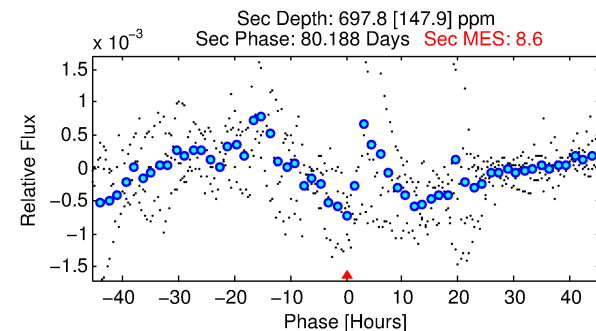
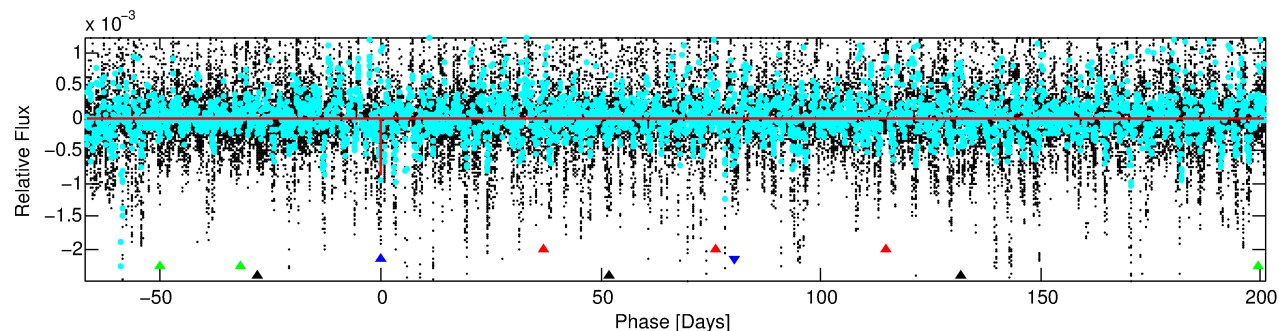
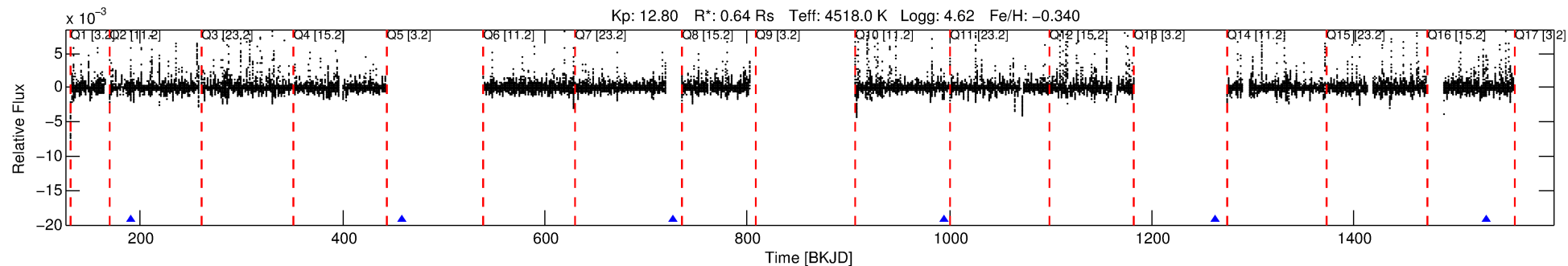
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006269092-02

No Significant Match Found

DV One-Page Summary

KIC: 6269092 Candidate: 2 of 4 Period: 267.962 d



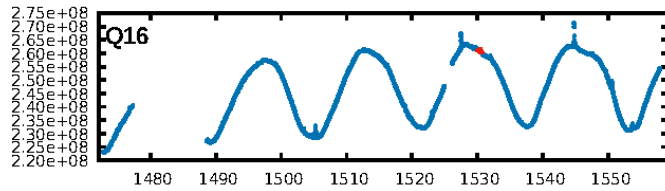
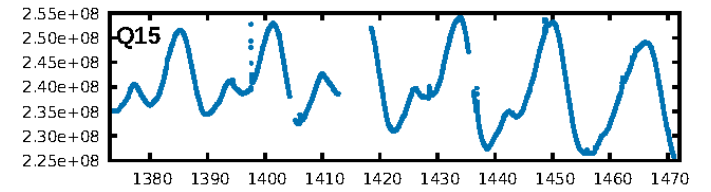
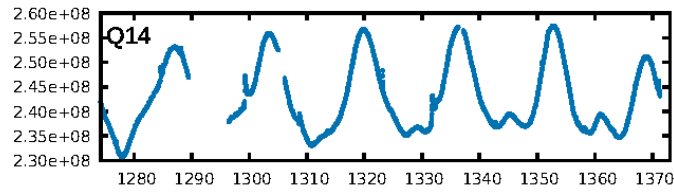
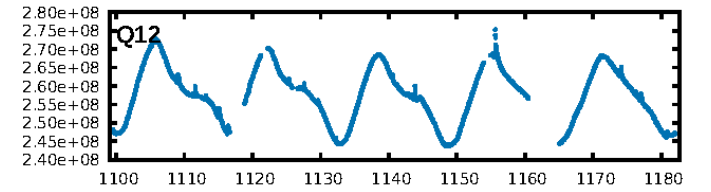
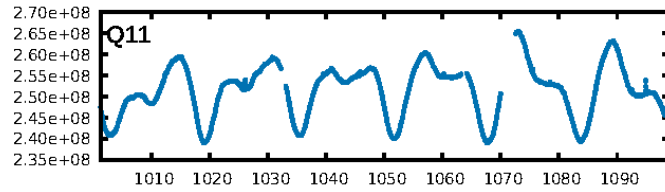
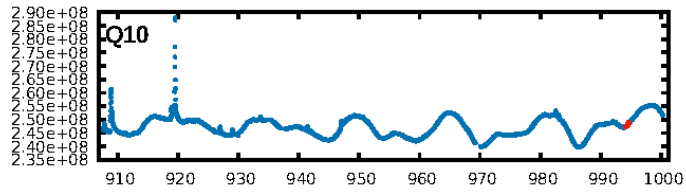
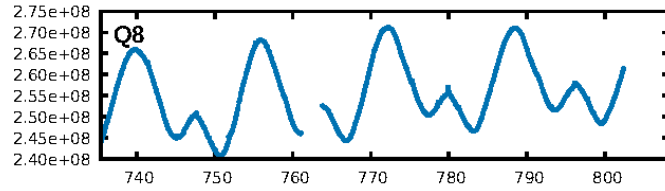
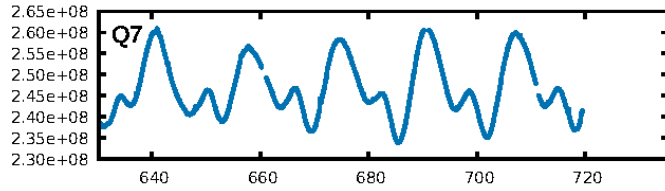
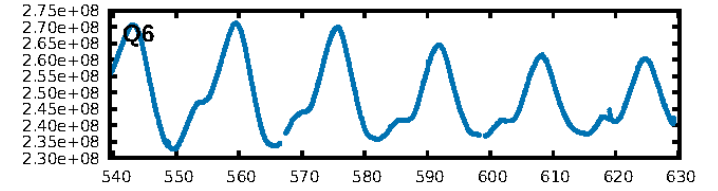
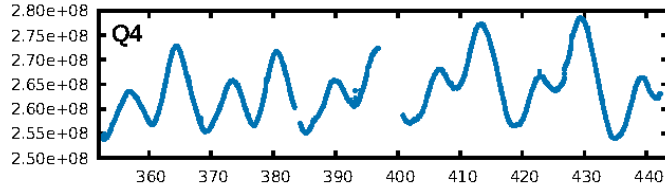
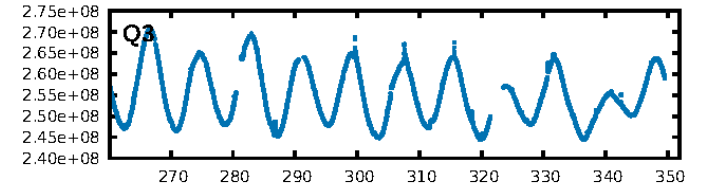
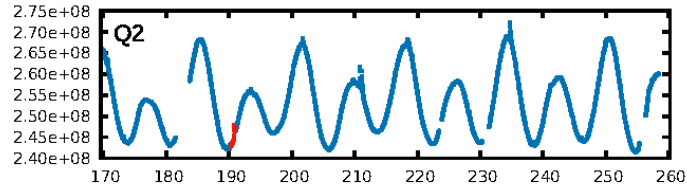
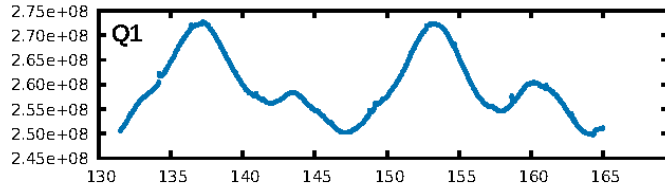
DV Fit Results:

Period = 267.96166 [0.00251] d
Epoch = 190.5786 [0.0081] BKJD
Rp/R* = 0.0259 [0.0301]
a/R* = 275.73 [1011.98]
b = 0.01 [525.39]
Seff = 0.31 [0.06]
Teq = 191 [9] K
Rp = 1.80 [2.09] Re
a = 0.6938 [0.0511] AU
Ag = 57239.14 [133474.16] [0.43σ]
Teffp = 4560 [2662] K [1.64σ]

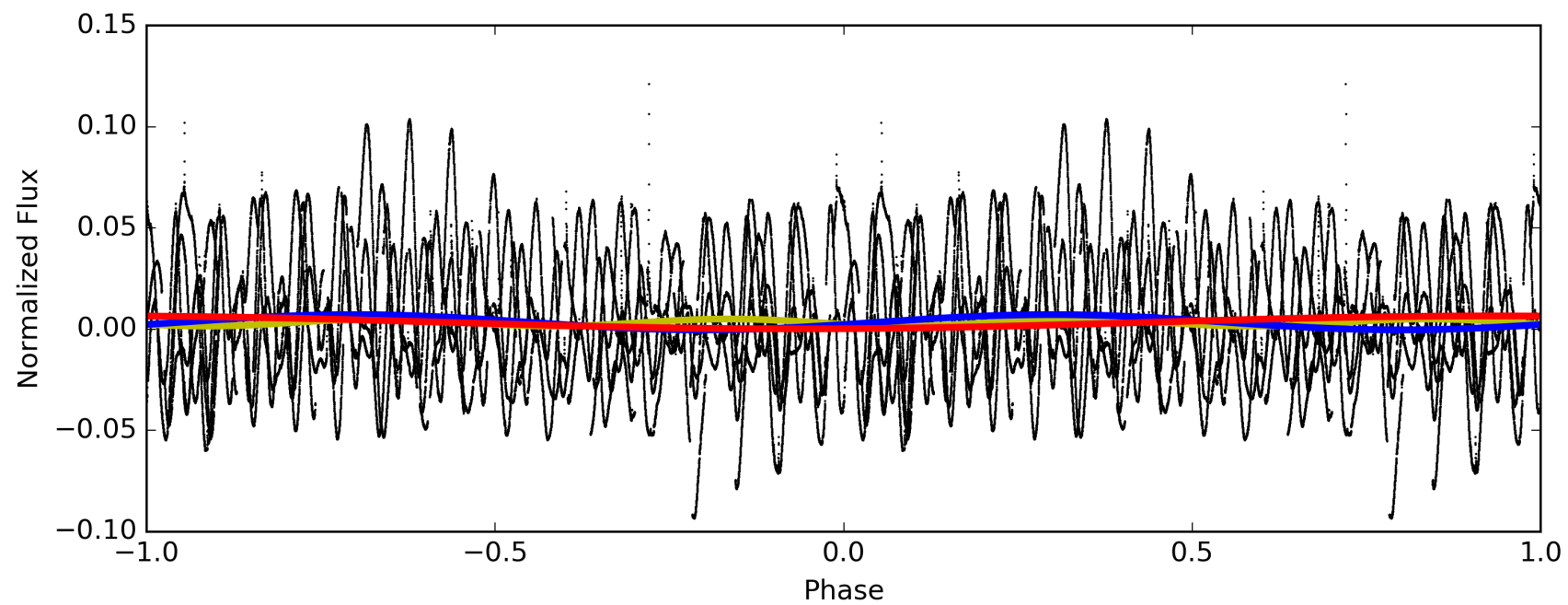
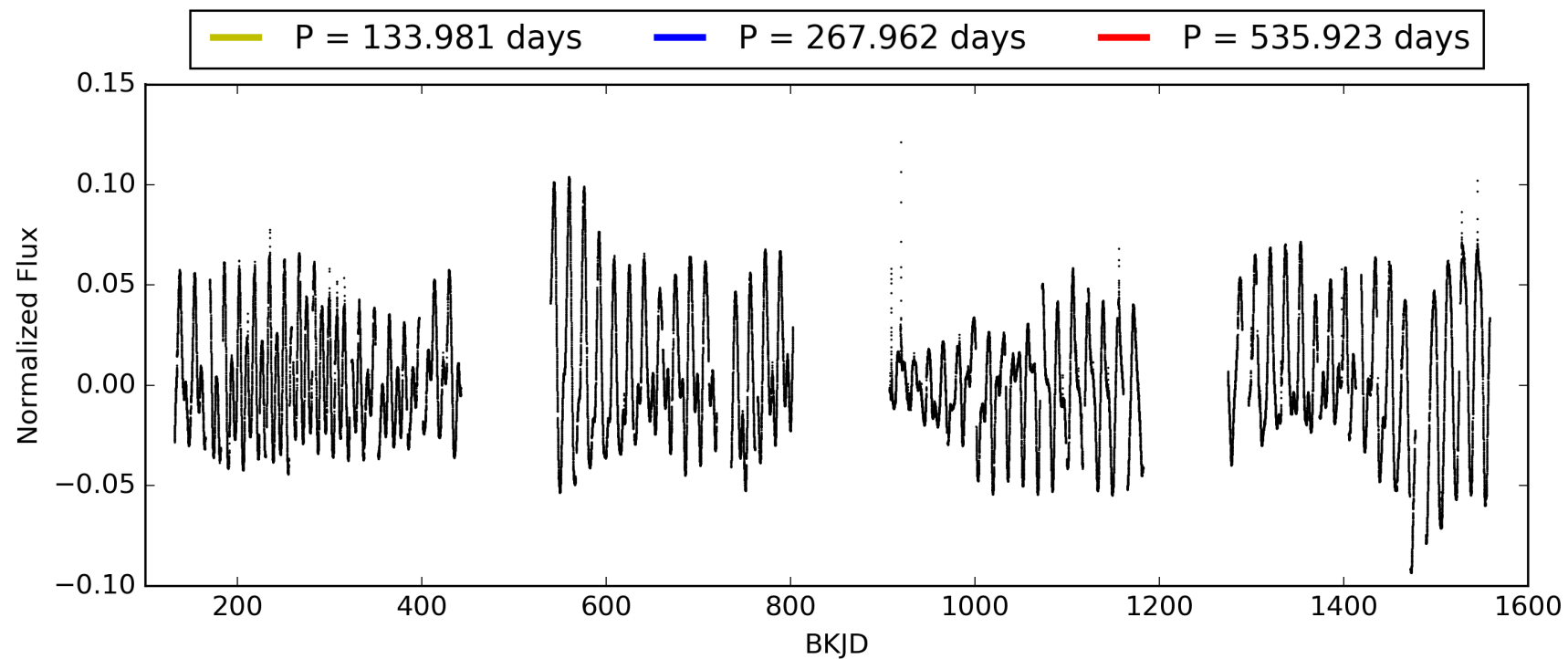
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [687.72σ]
ModelChiSquare2-sig: 72.9%
ModelChiSquareGof-sig: 65.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.223
Centroid-sig: 16.2%
Centroid-so: 0.441 arcsec [1.31σ]
OotOffset-rm: 0.210 arcsec [2.58σ]
KicOffset-rm: 0.149 arcsec [1.83σ]
OotOffset-st: 2/0/1/0 [3]
KicOffset-st: 2/0/1/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 006269092-02, PDC Light Curves

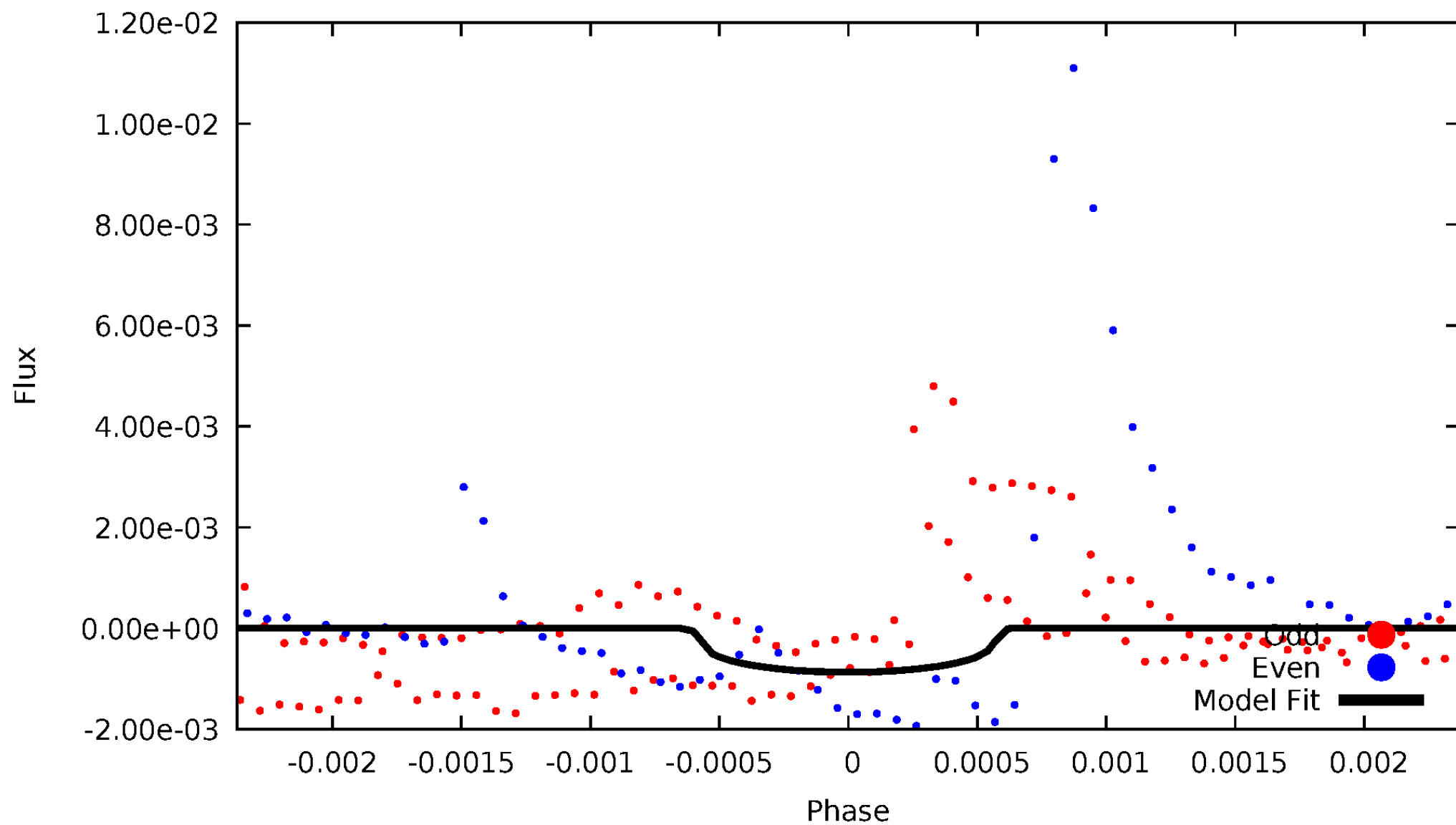


TCE 006269092-02



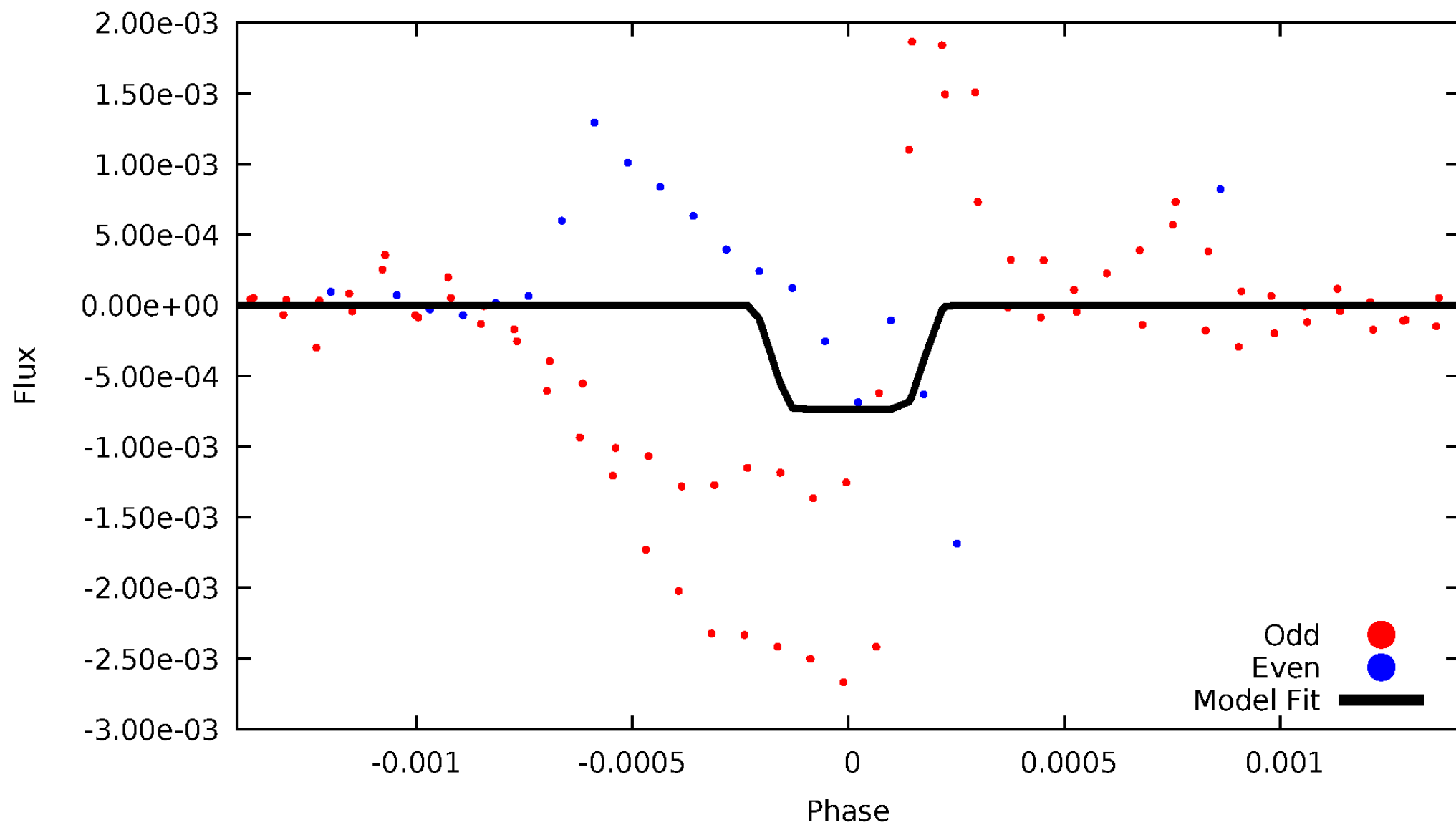
DV Odd/Even

TCE 006269092-02



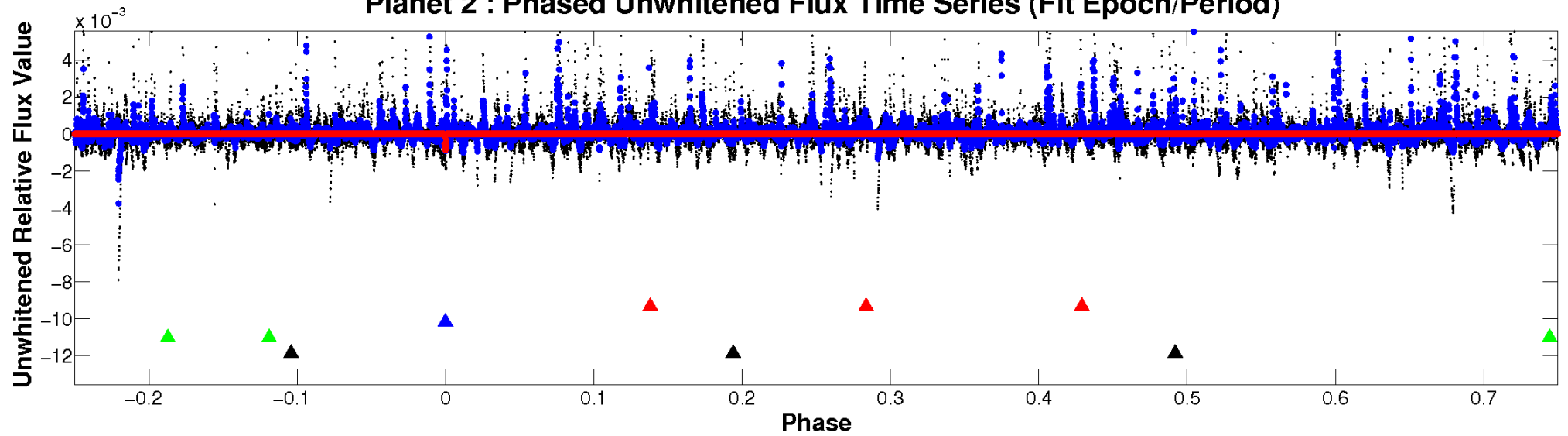
ALT Odd/Even

TCE 006269092-02

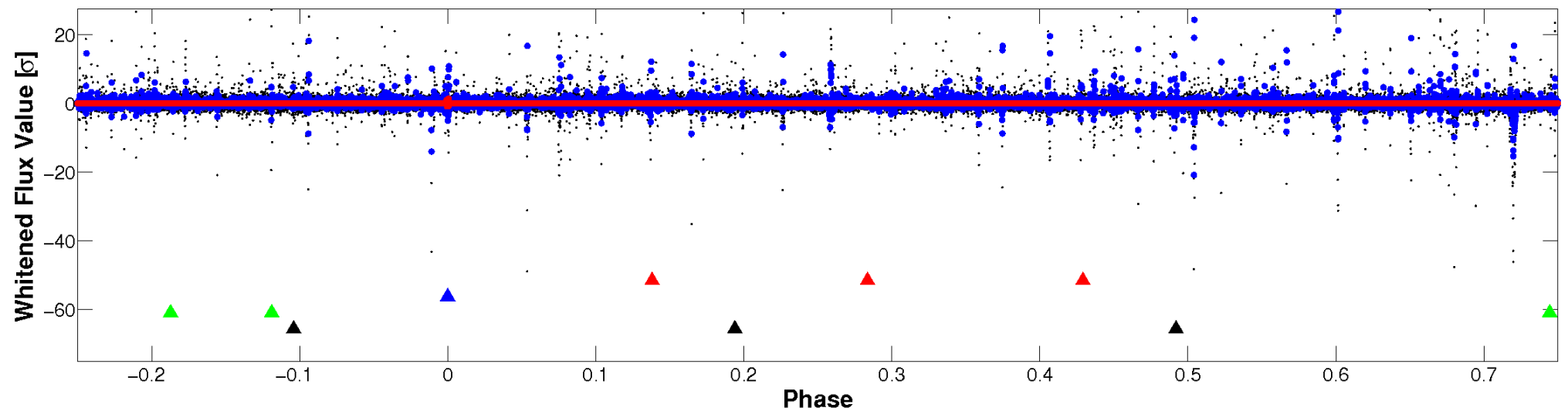


Non-Whitened Vs. Whitened Light Curve

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

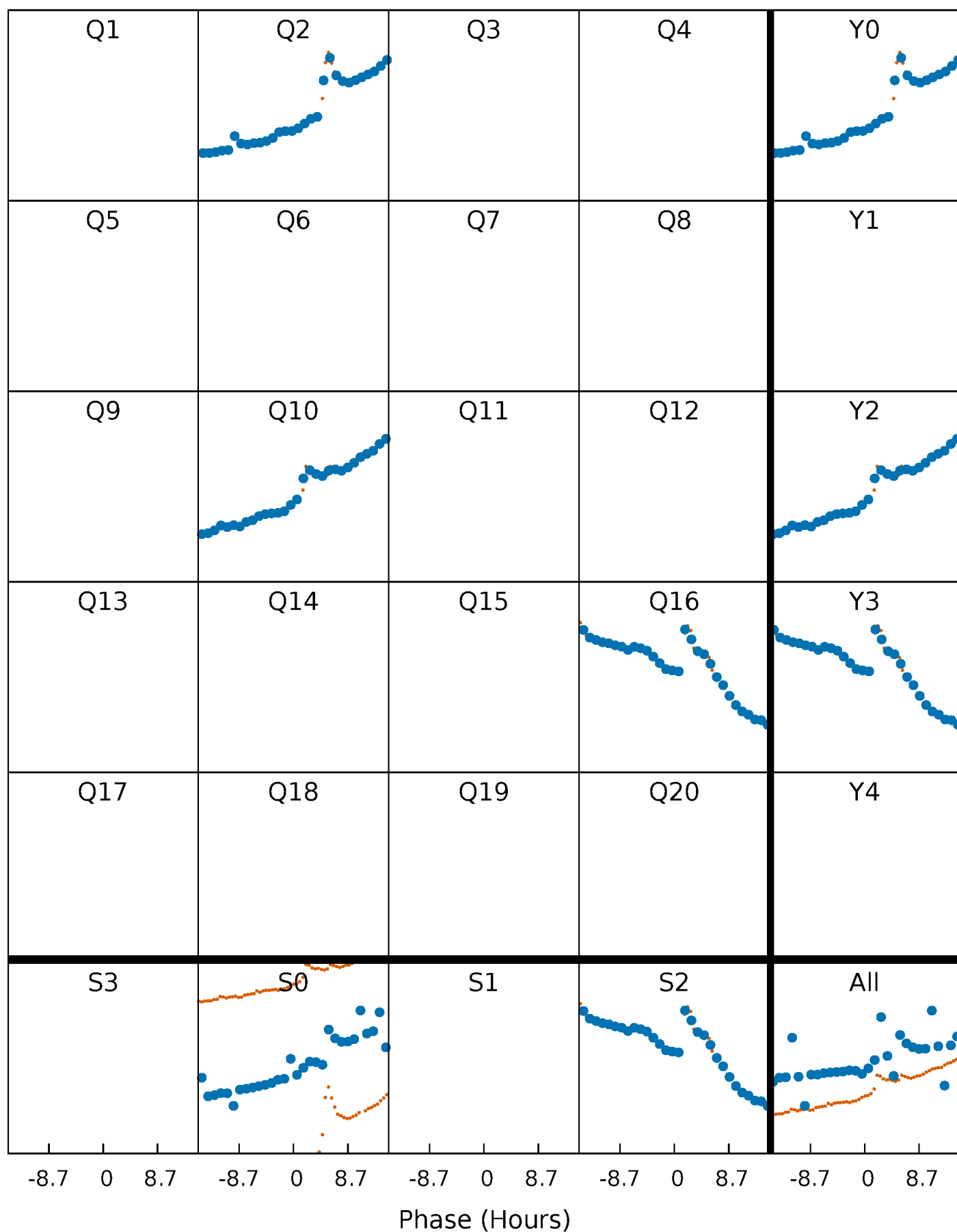


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



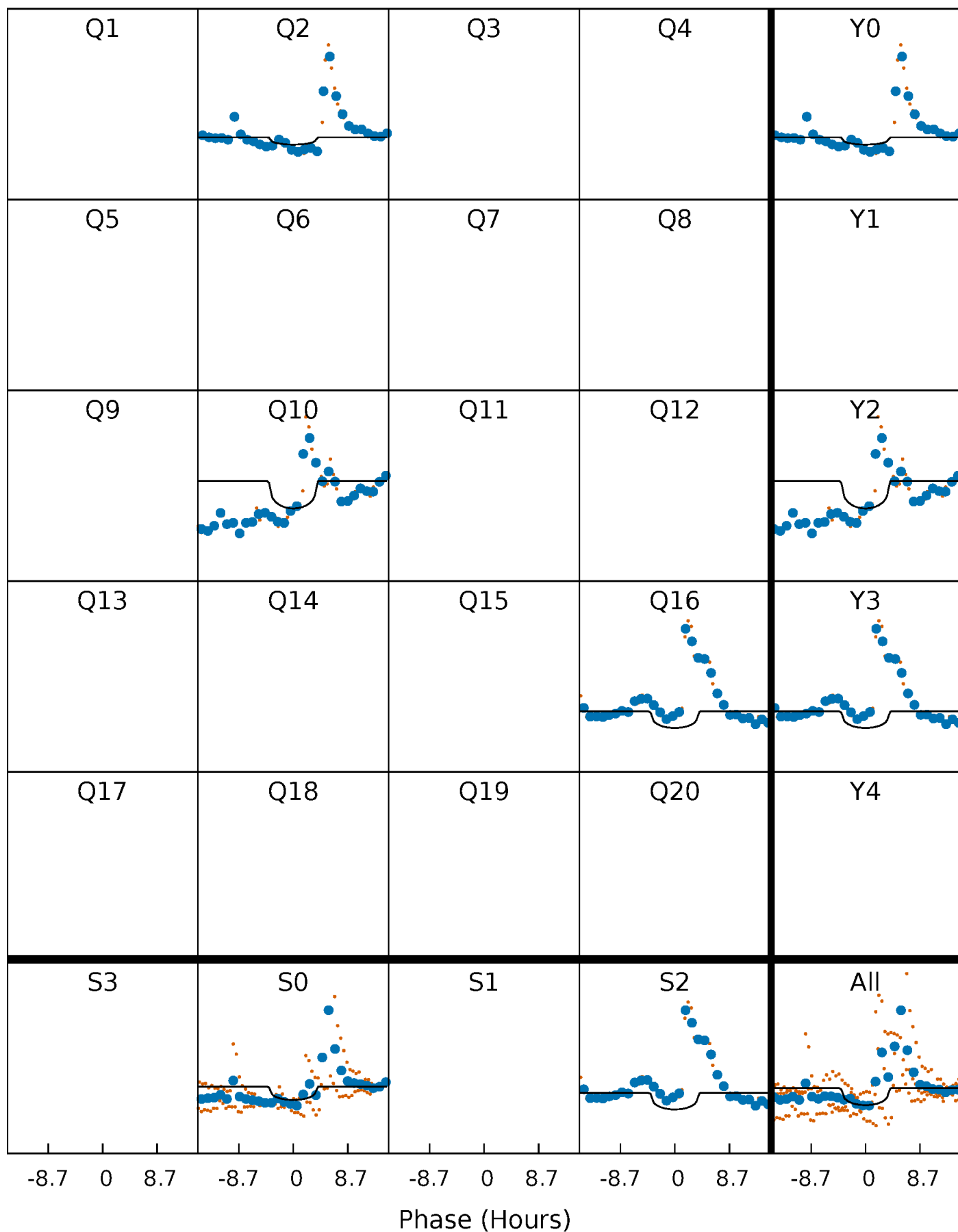
PDC Quarter-Phased Transit Curves

TCE 006269092-02 $P=267.961658$ Days $T_0=190.578627$ (BKJD)



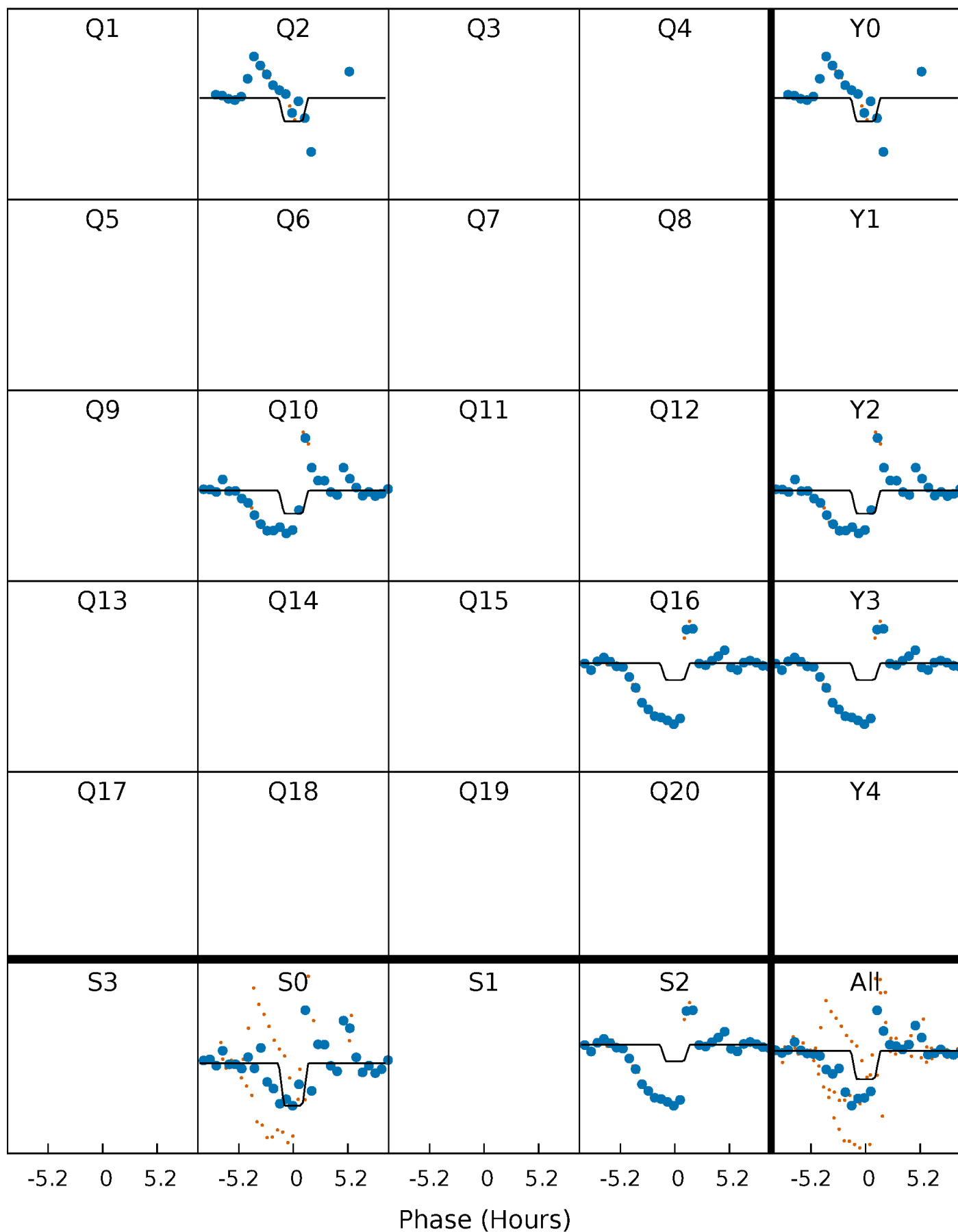
DV Quarter-Phased Transit Curves

TCE 006269092-02 P=267.961658 Days $T_0=190.578627$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

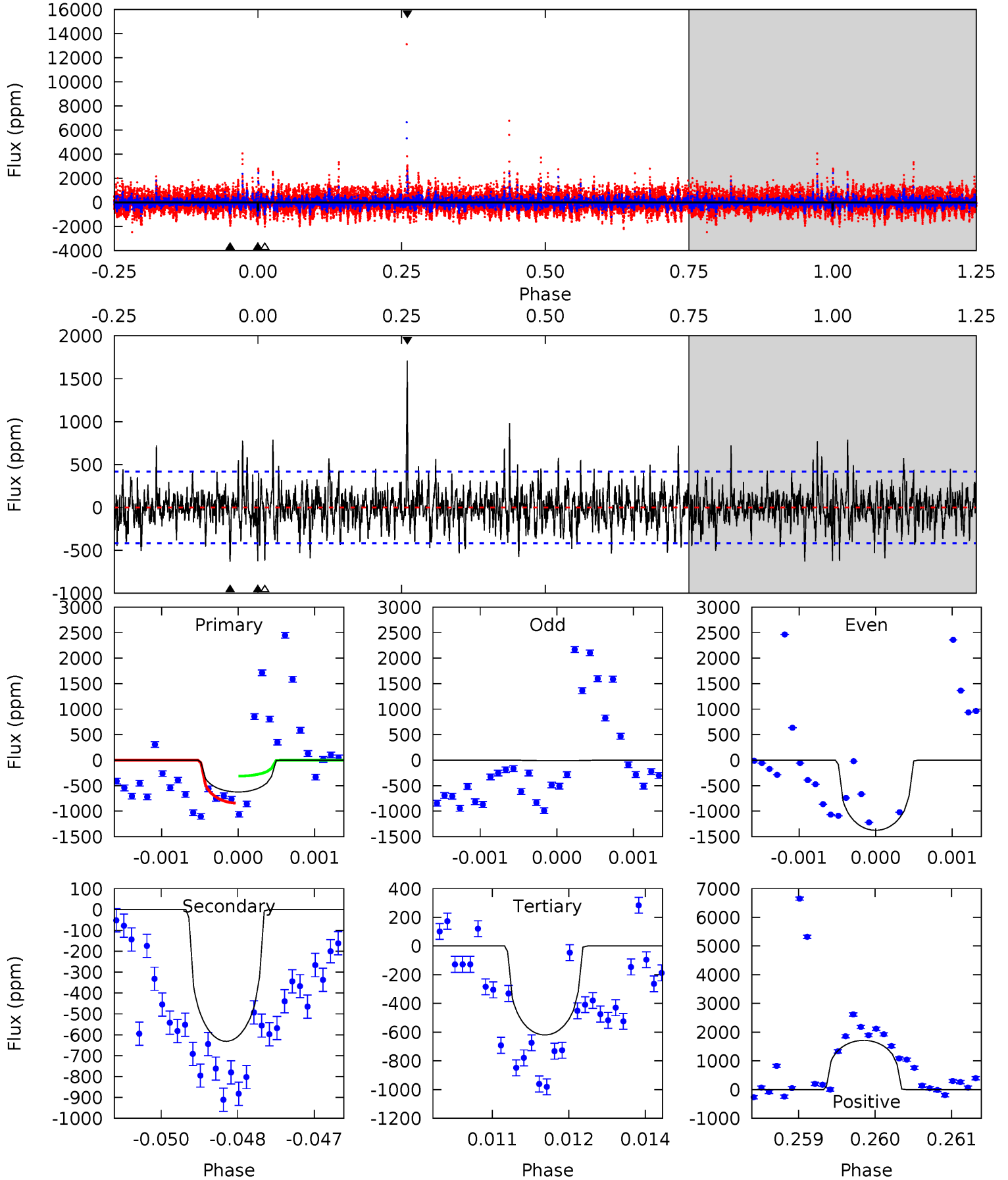
TCE 006269092-02 P=267.954800 Days $T_0=190.643175$ (BKJD)



DV Model-Shift Uniqueness Test

006269092-02, P = 267.961658 Days, E = 190.578627 Days

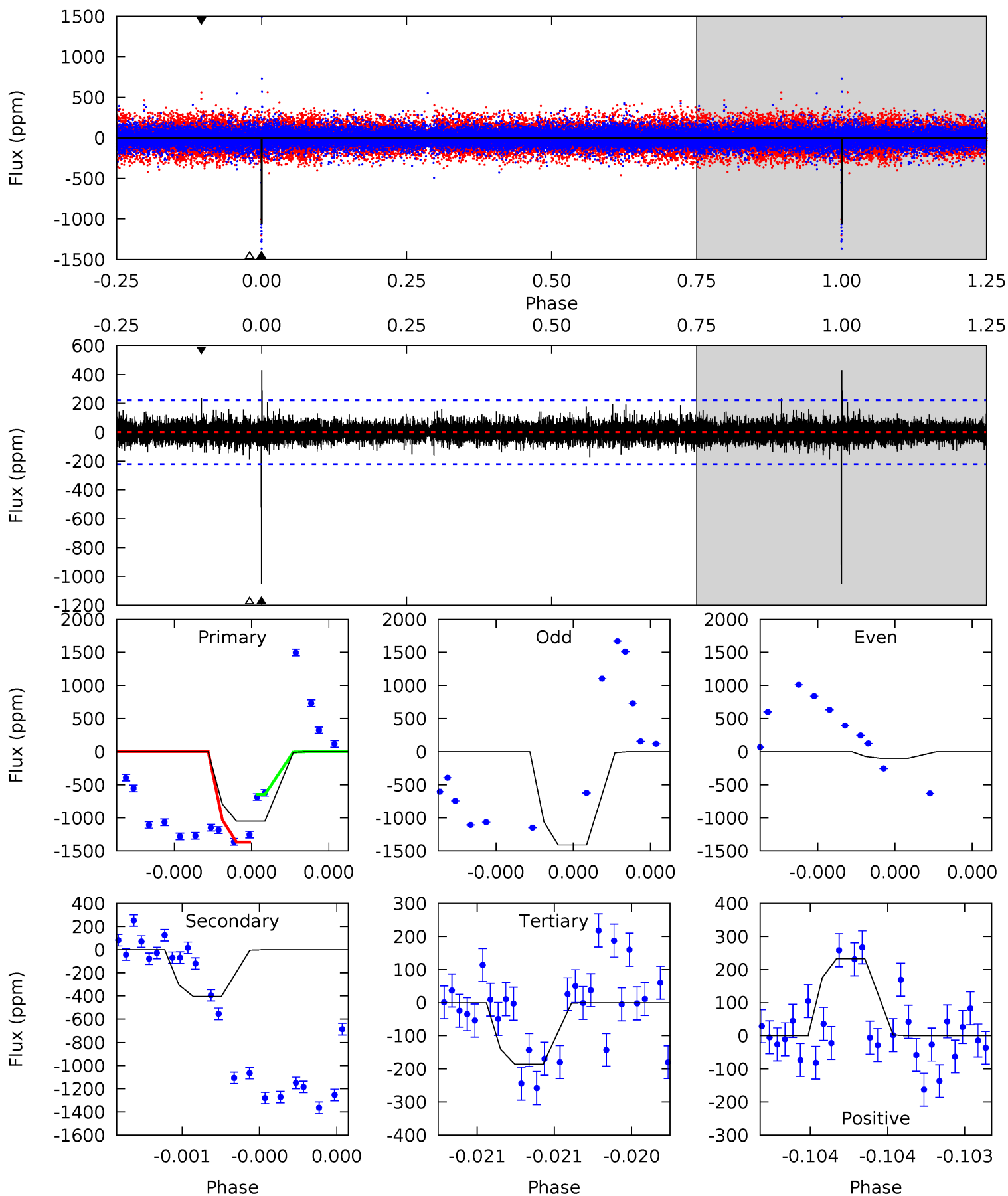
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.08	8.18	8.02	22.2	5.41	3.23	2.30	0.06	-14.1	0.15	-14.0	6.90	0.47	0.73	3.40



Alt Model-Shift Uniqueness Test

006269092-02, P = 267.954800 Days, E = 190.643175 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.6	10.2	4.70	5.88	5.61	3.53	0.96	21.9	20.7	5.50	4.33	21.3	1.59	0.29	9.15



Stellar Parameters For KIC 006269092

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4518^{+159}_{-175}	$4.625^{+0.054}_{-0.027}$	$-0.340^{+0.300}_{-0.300}$	$0.635^{+0.052}_{-0.058}$	$0.621^{+0.077}_{-0.045}$	$3.417^{+0.842}_{-0.412}$
	+4%/-4%	+1%/-1%	+88%/-88%	+8%/-9%	+12%/-7%	+25%/-12%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006269092-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-631 ± 77	$2.30^{+1.91}_{-1.58}$	265^{+11}_{-11}	4053^{+2555}_{-742}	$32792^{+292846}_{-23197}$
Alt.	-403 ± 40	$2.34^{+1.65}_{-1.46}$	264^{+10}_{-11}	3754^{+1686}_{-610}	$20332^{+116146}_{-13716}$

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 $A_{obs} \gg 1.0$

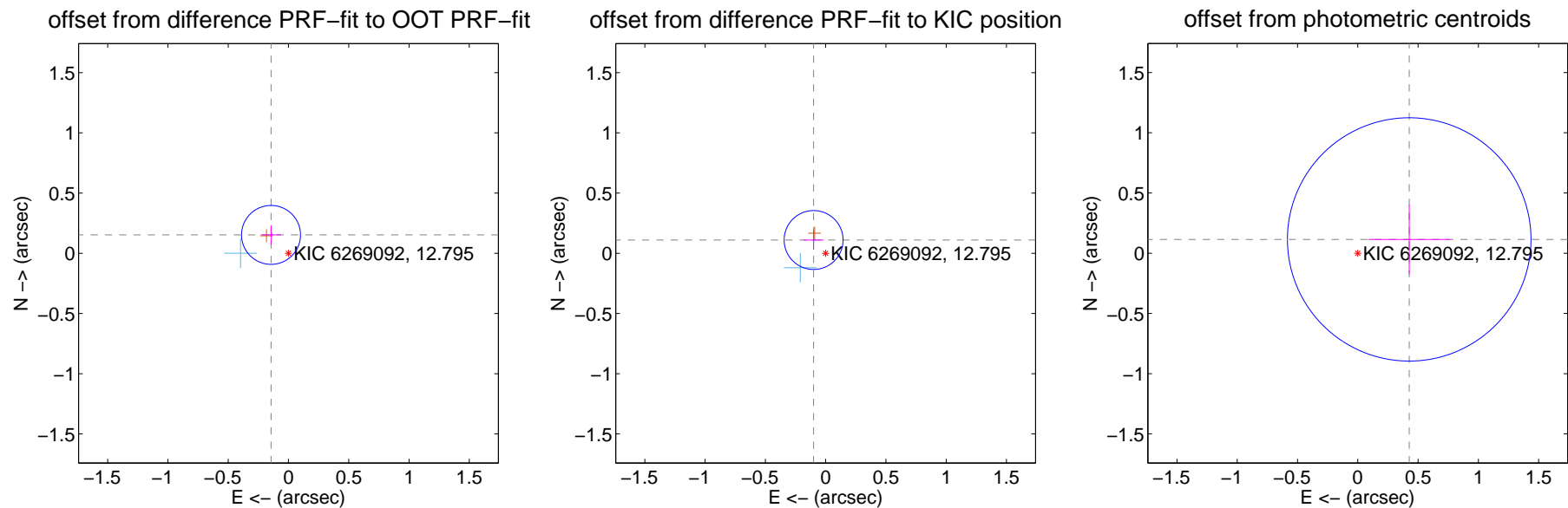
DV Centroid Data

Supplemental centroid analysis for 006269092-02. Kepler magnitude: 12.79. Transit SNR 5.35

There are 2 quarters with good PRF difference image offsets

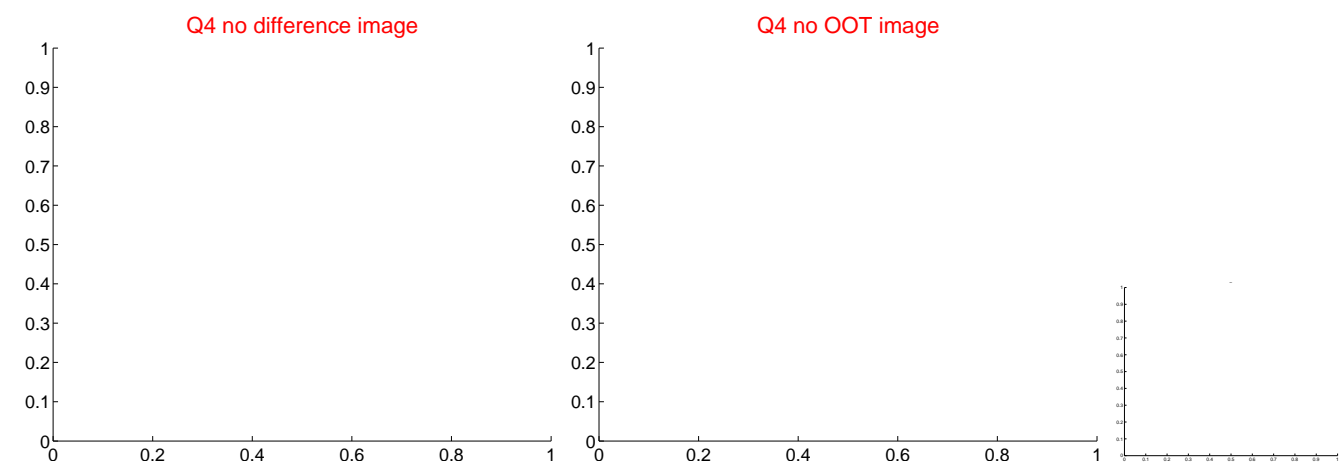
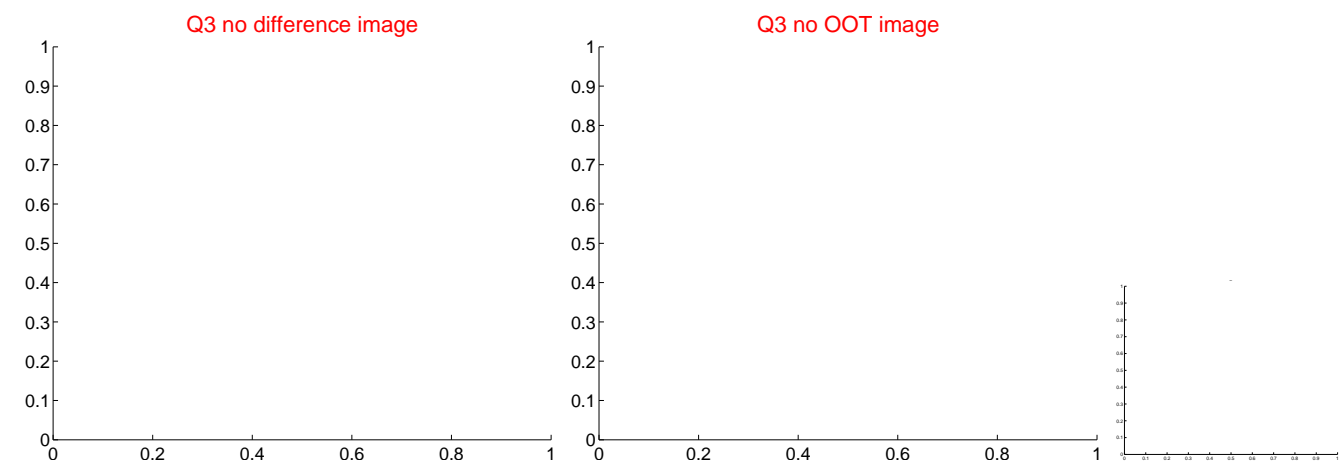
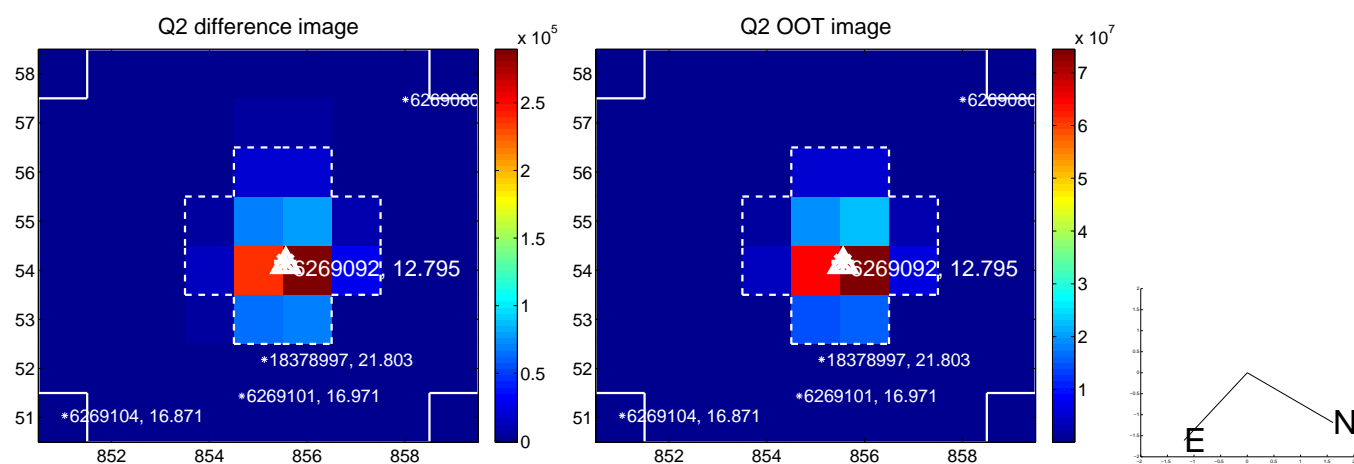
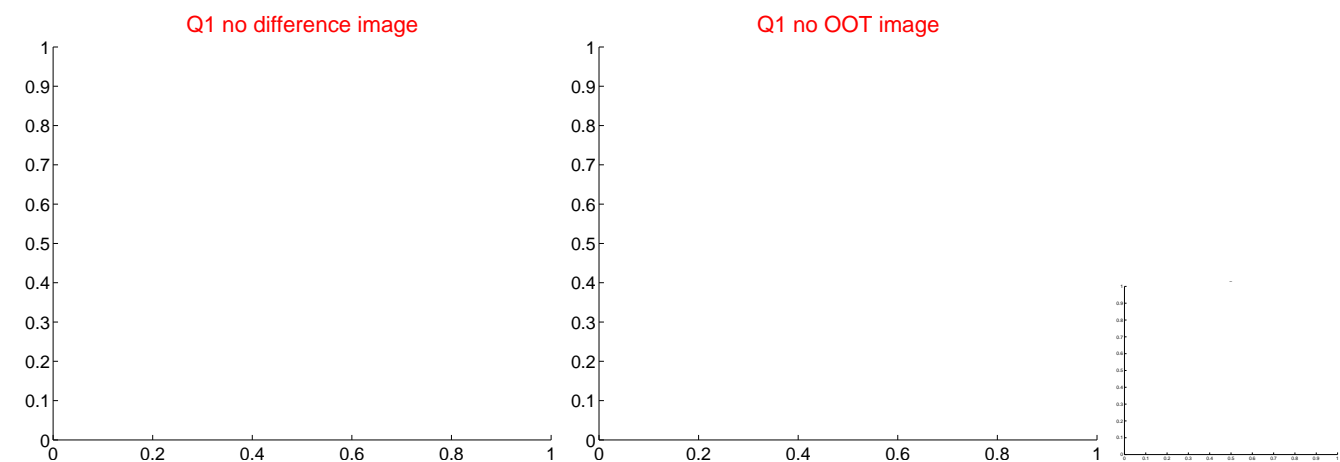
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.210 ± 0.082	2.58	0.145 ± 0.083	0.153 ± 0.080
PRF-fit source offset from KIC position	0.149 ± 0.081	1.83	0.100 ± 0.083	0.110 ± 0.080
photometric centroid source offset	0.44 ± 0.34	1.31	-0.43 ± 0.34	0.11 ± 0.29



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

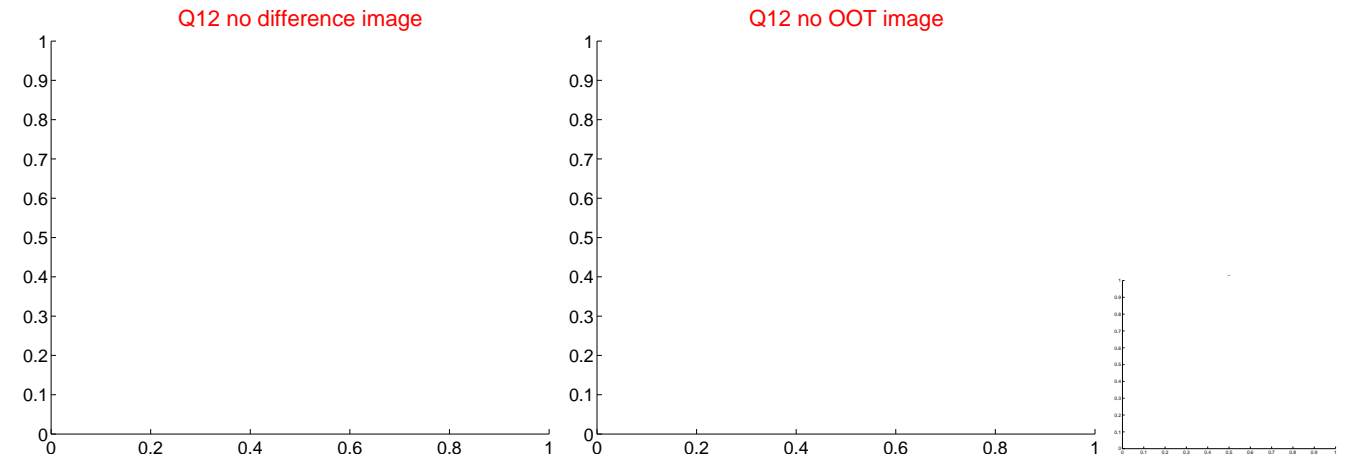
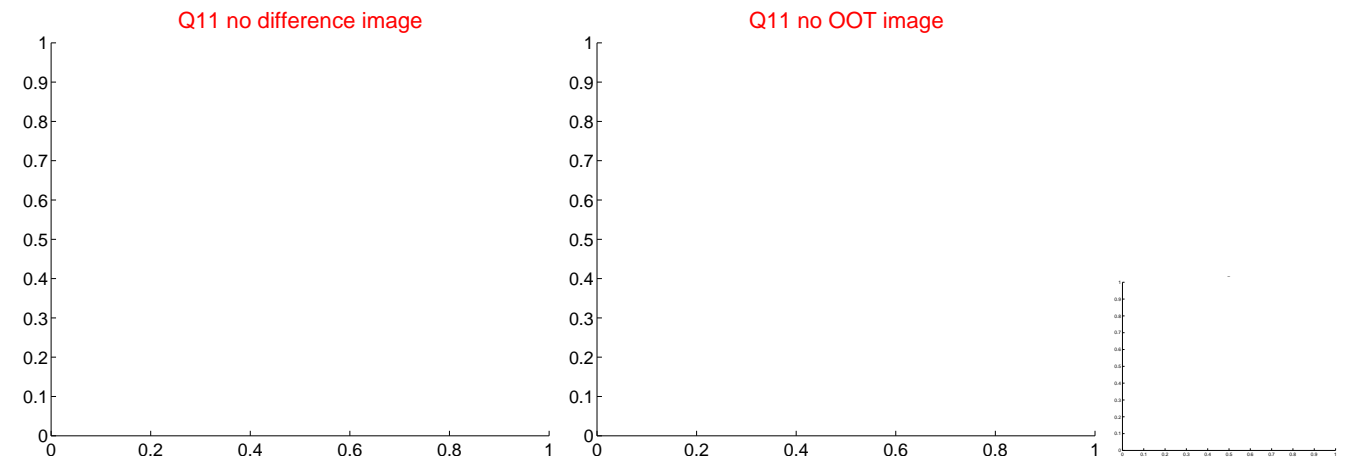
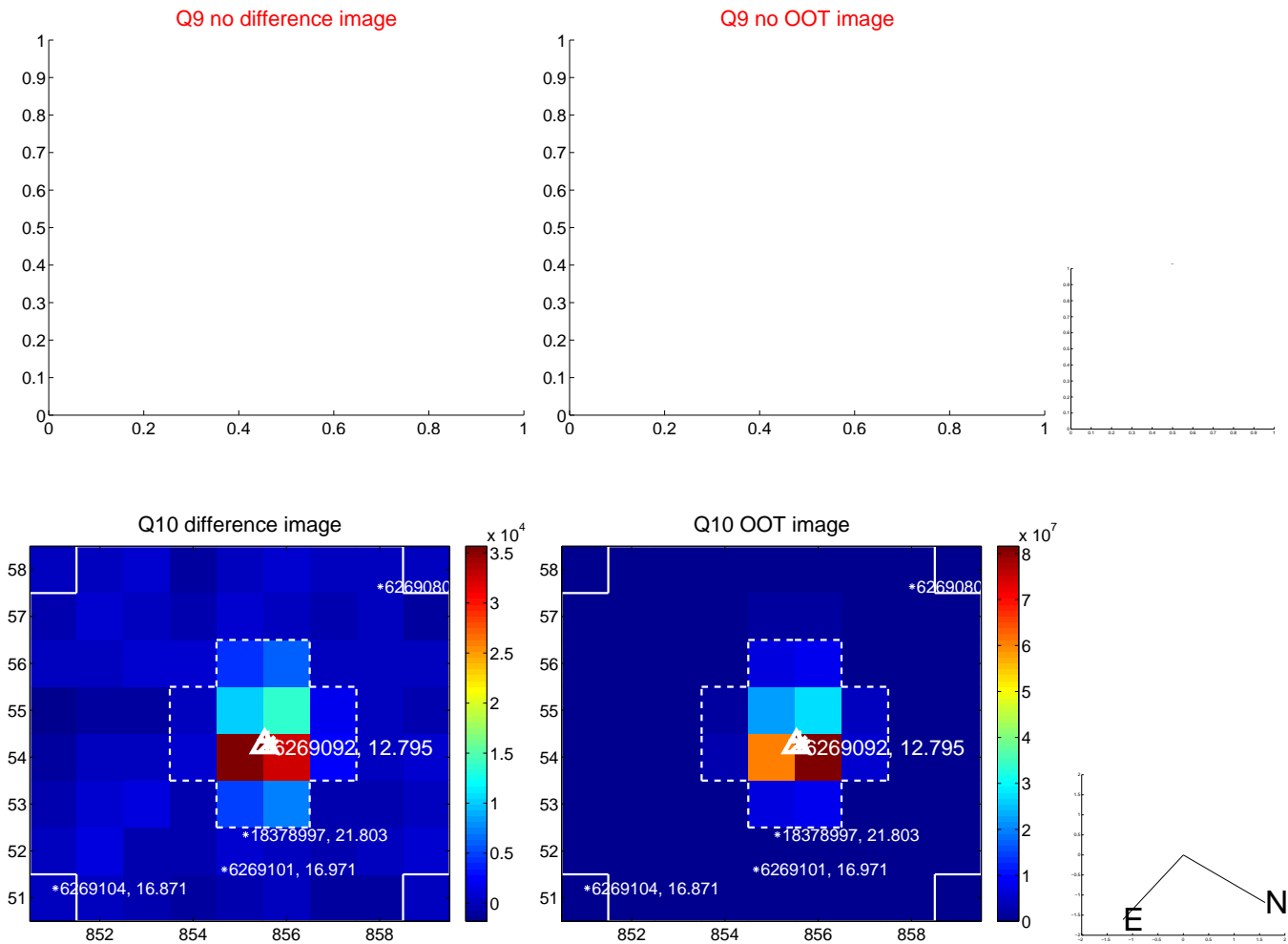
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



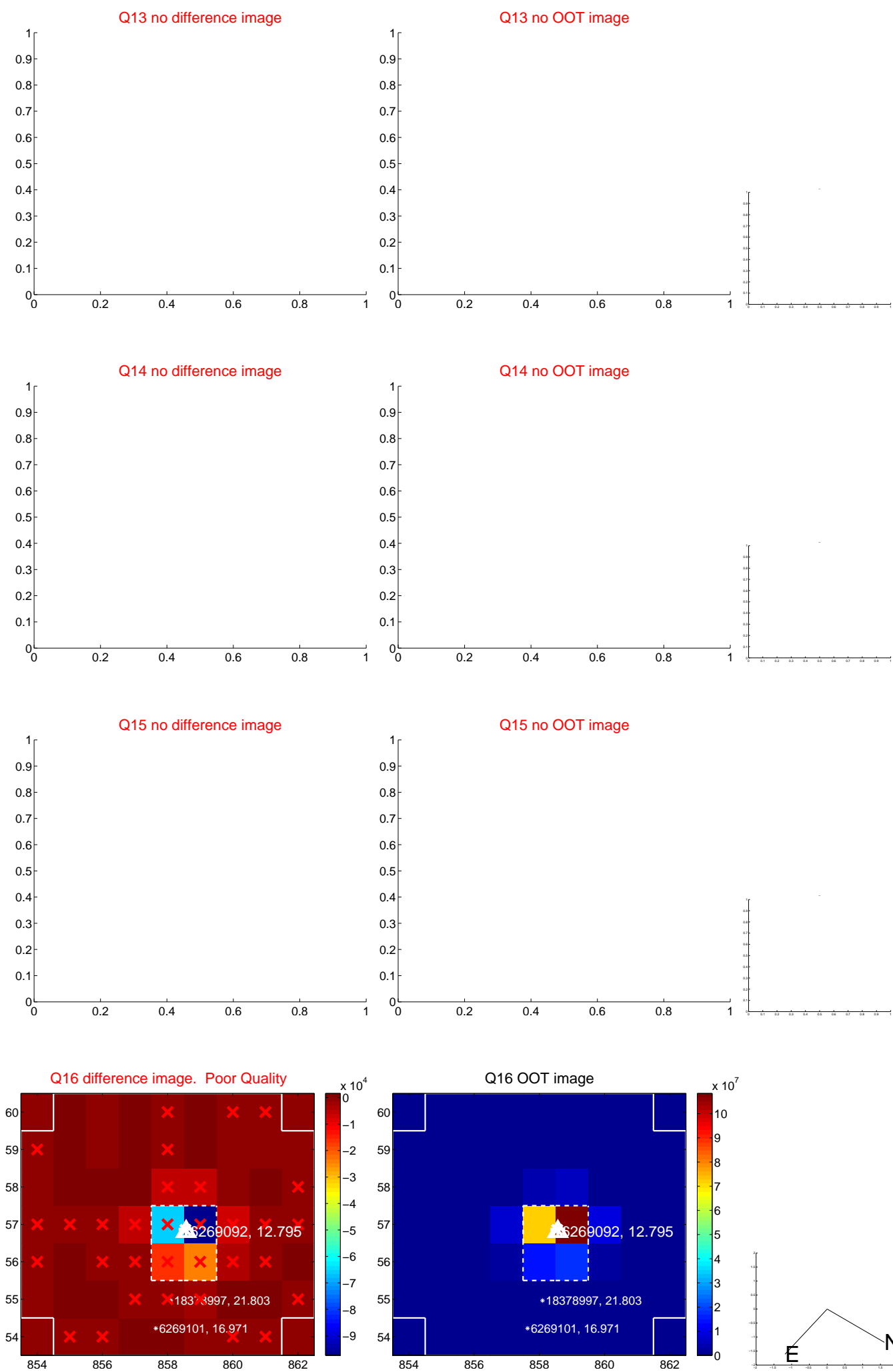
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



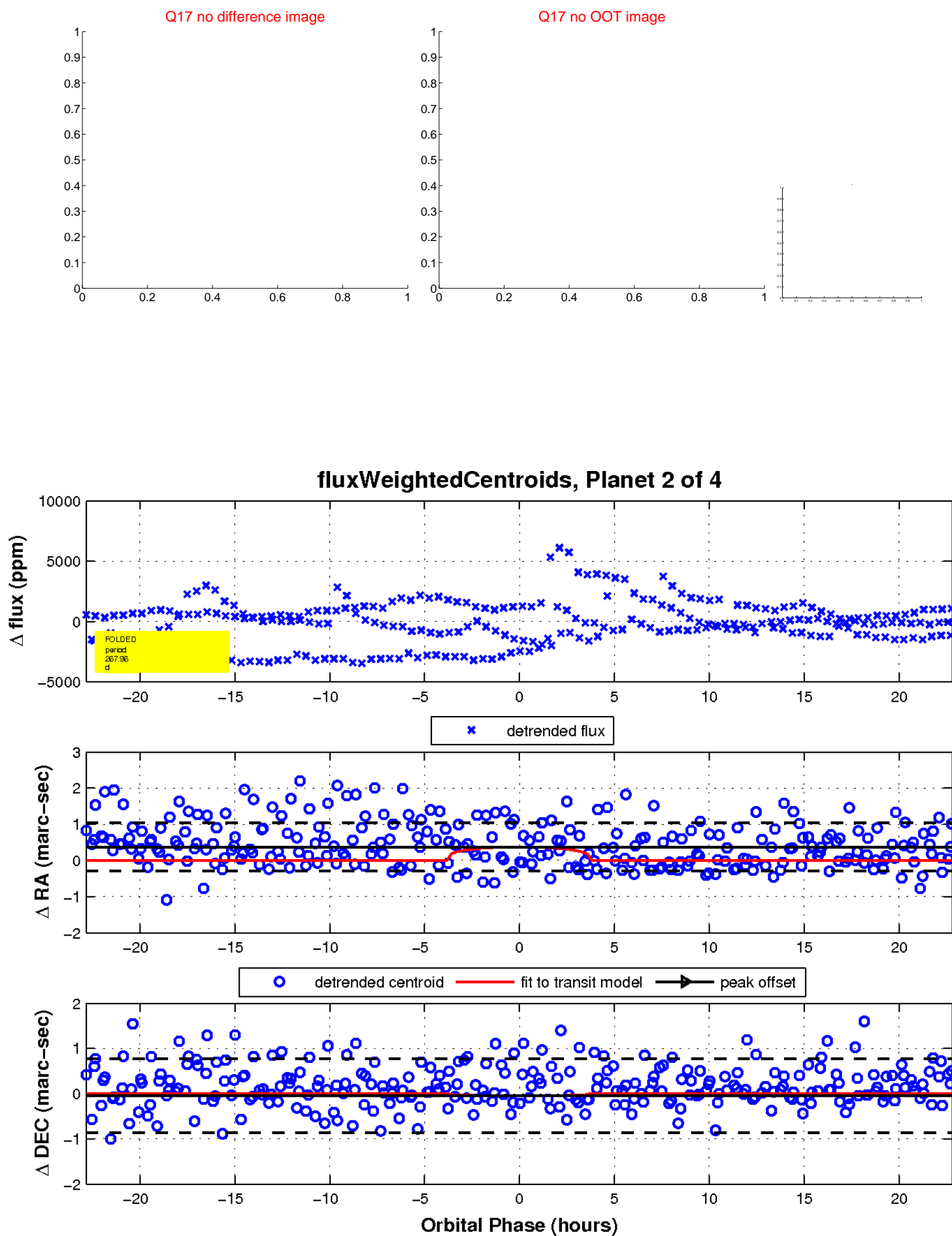
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

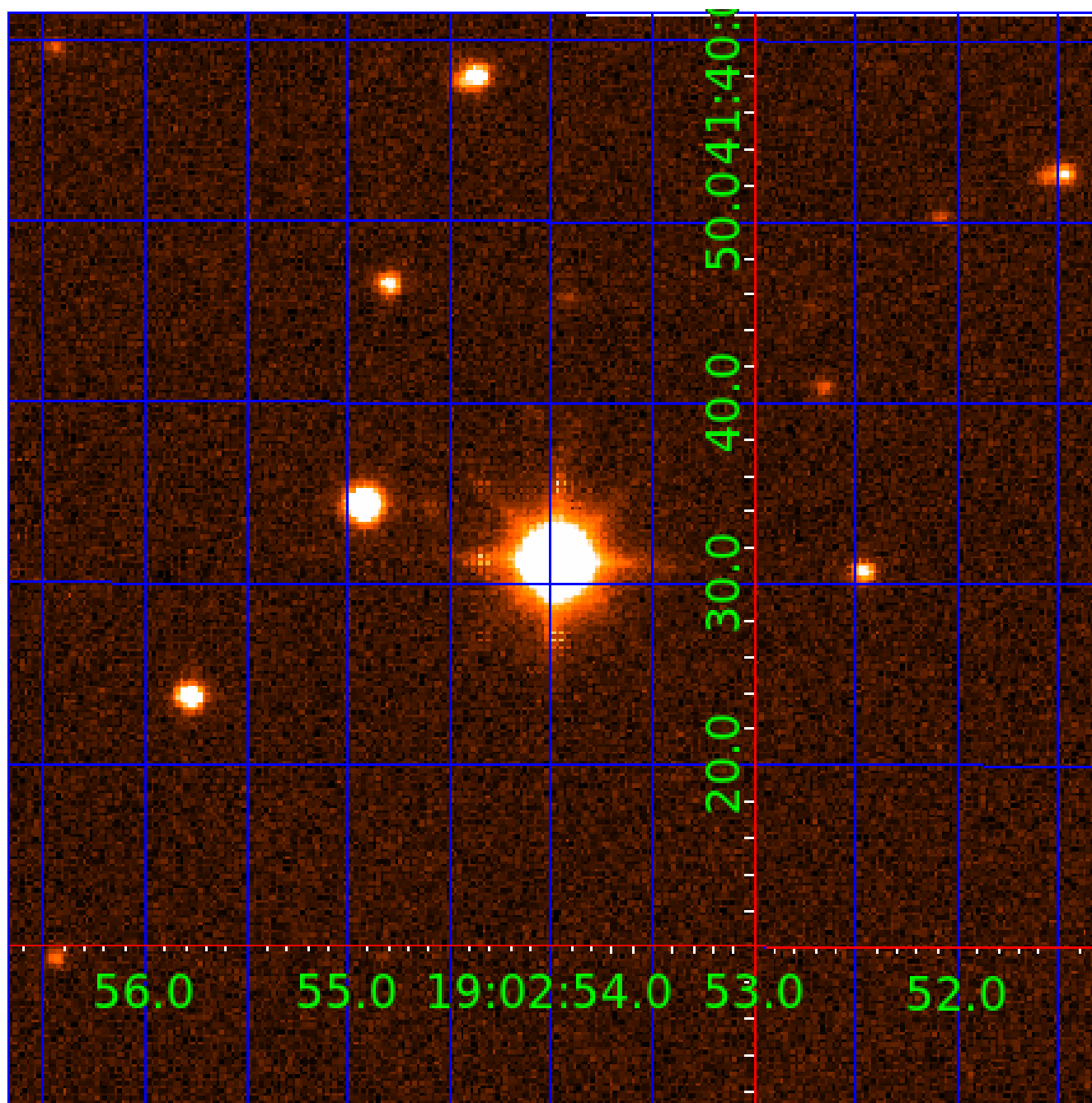


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006269092

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})
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006269092-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
006269092-04	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

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

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

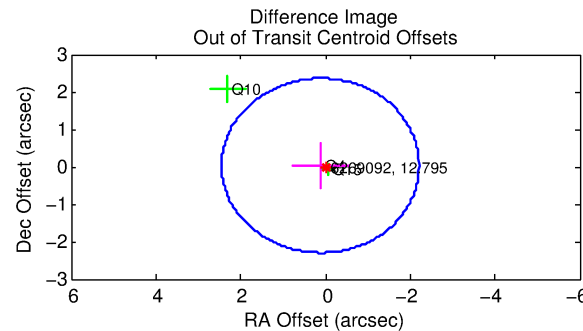
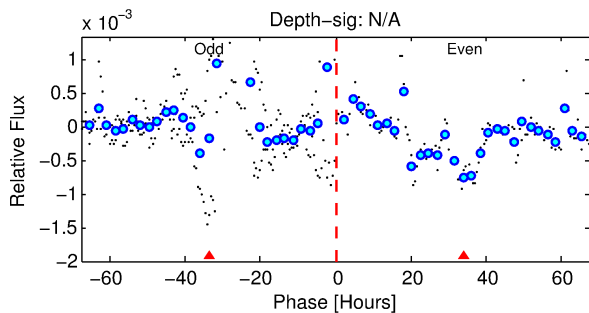
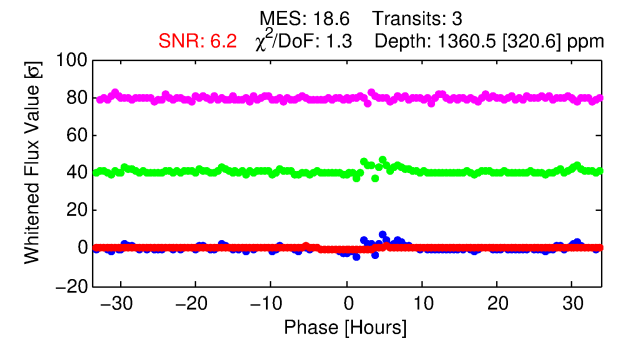
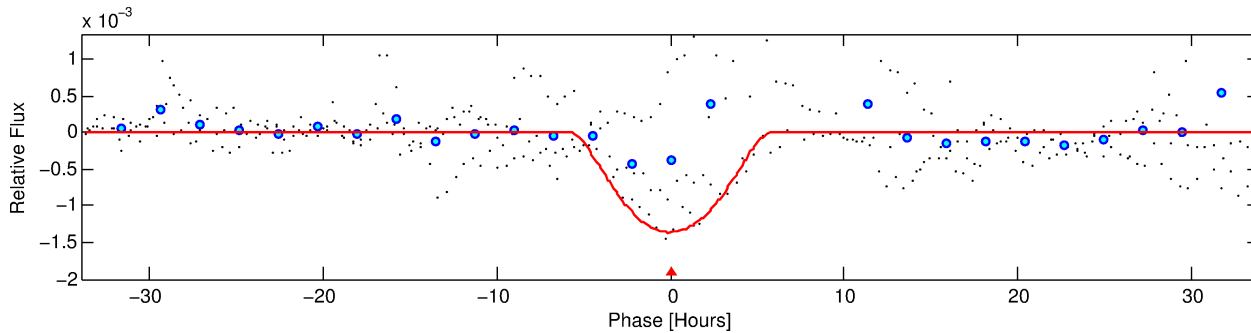
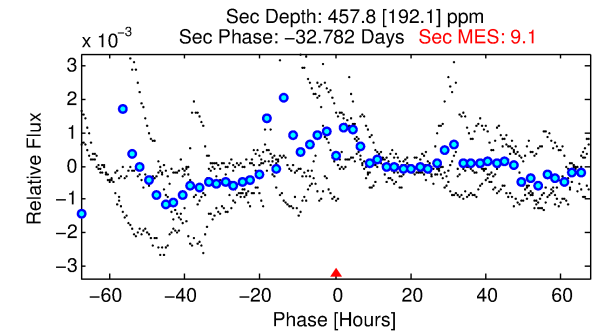
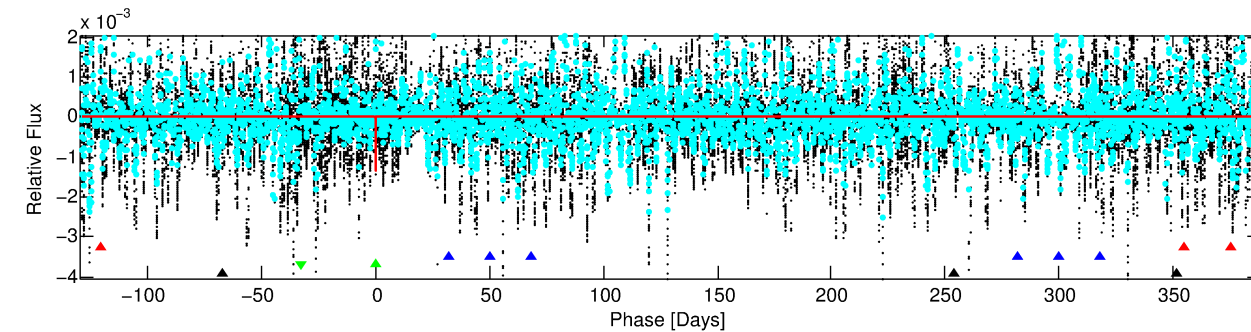
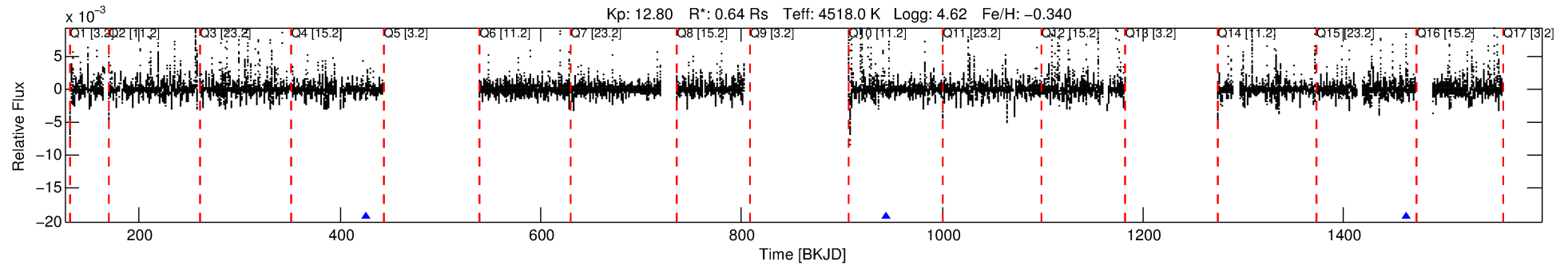
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006269092-03

No Significant Match Found

DV One-Page Summary

KIC: 6269092 Candidate: 3 of 4 Period: 517.621 d



DV Fit Results:

Period = 517.62086 [0.01870] d
Epoch = 426.6854 [0.0218] BKJD
Rp/R* = 0.0515 [0.0324]
a/R* = 141.49 [35.32]
b = 0.97 [0.06]
Seff = 0.13 [0.02]
Teff = 153 [7] K
Rp = 3.57 [2.27] Re
a = 1.0762 [0.0793] AU
Ag = 22927.50 [30476.17] [0.75σ]
Teffp = 2913 [972] K [2.84σ]

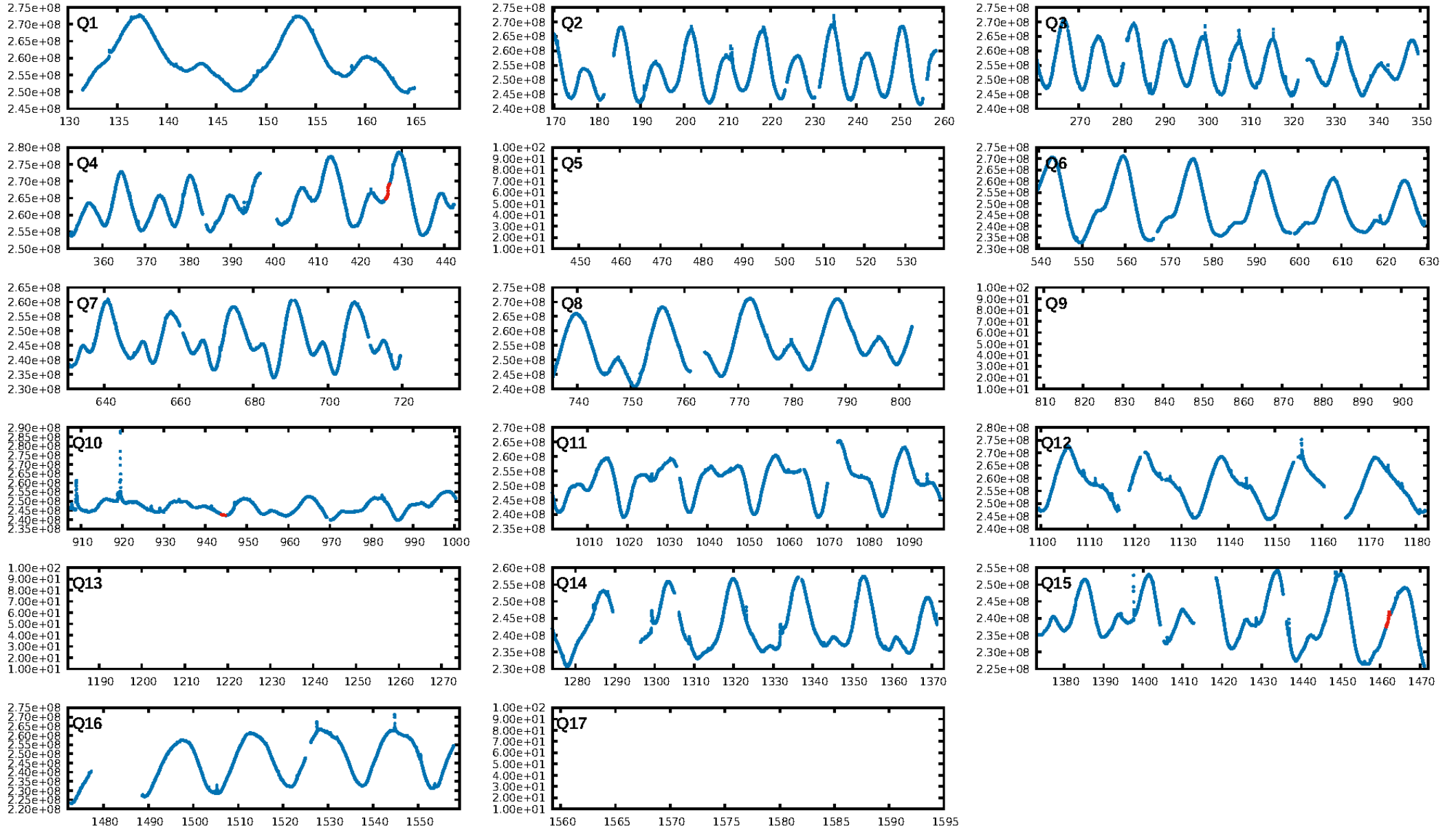
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [42.97σ]
LongPeriod-sig: 100.0% [198.47σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 88.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.6124
Centroid-sig: 21.0%
Centroid-so: 0.260 arcsec [1.38σ]
OotOffset-rm: 0.121 arcsec [0.16σ]
KicOffset-rm: 0.274 arcsec [0.34σ]
OotOffset-st: 1/1/1/0 [3]
KicOffset-st: 1/1/1/0 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

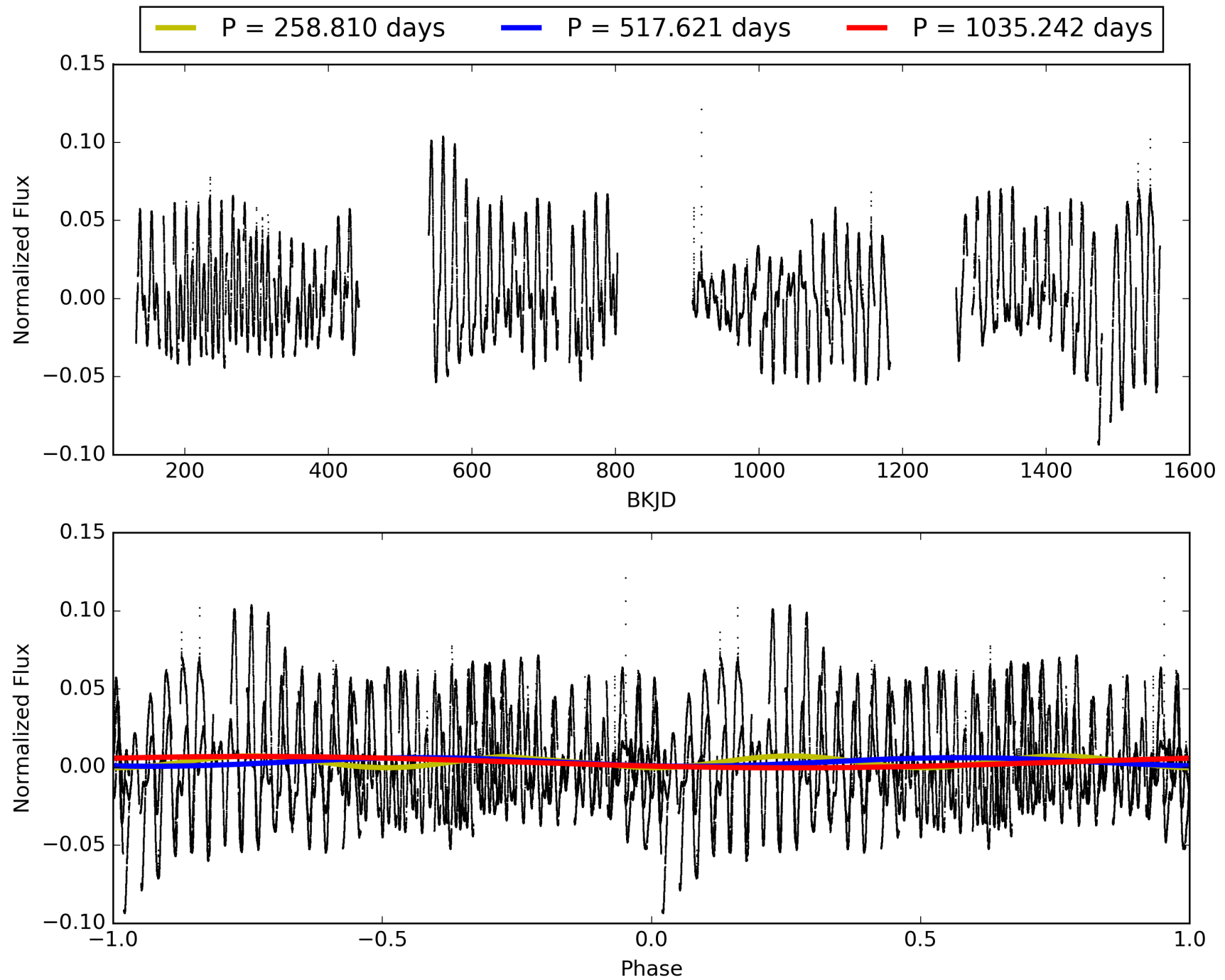
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 07:09:41 Z

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

TCE 006269092-03, PDC Light Curves

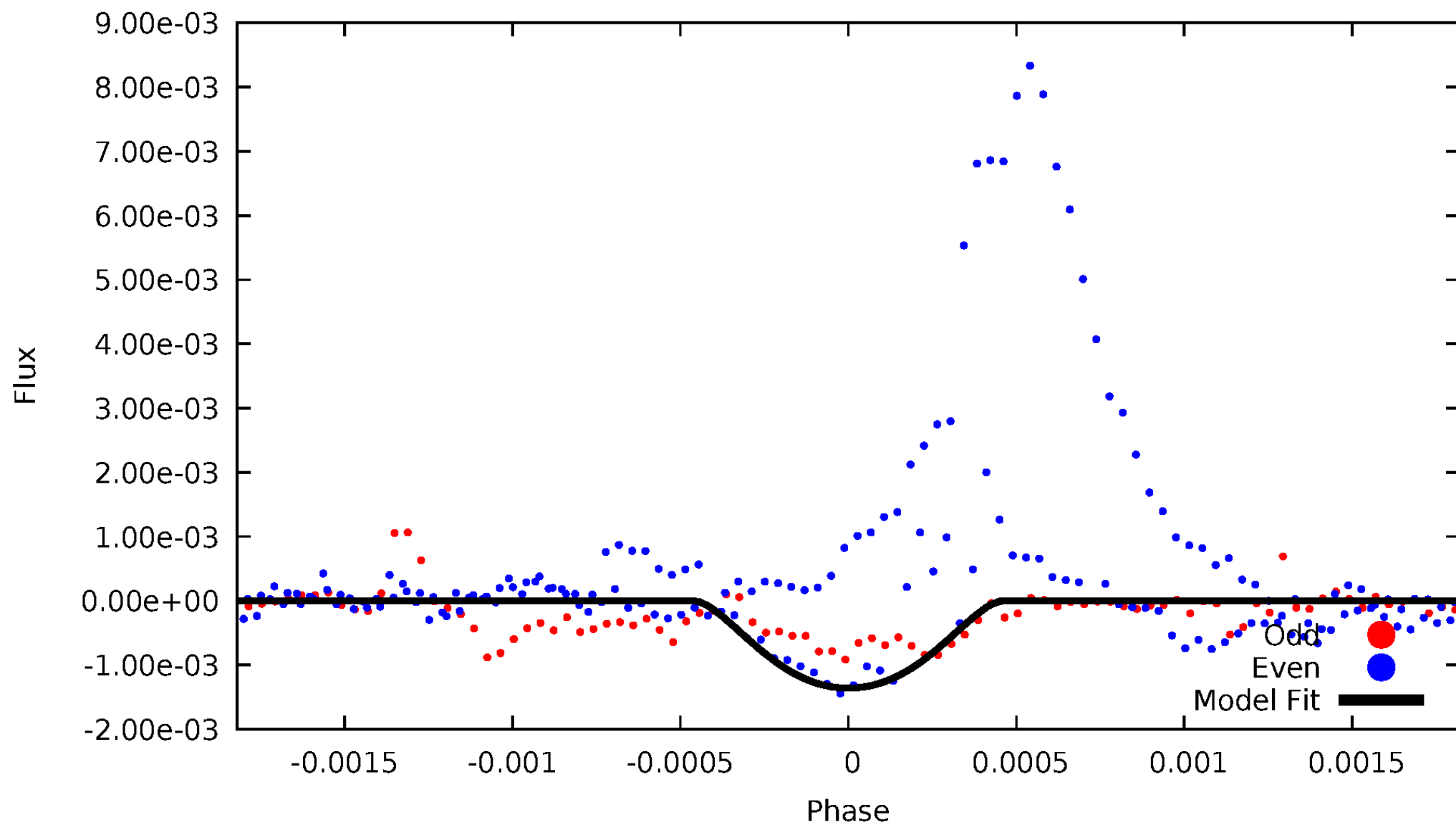


TCE 006269092-03



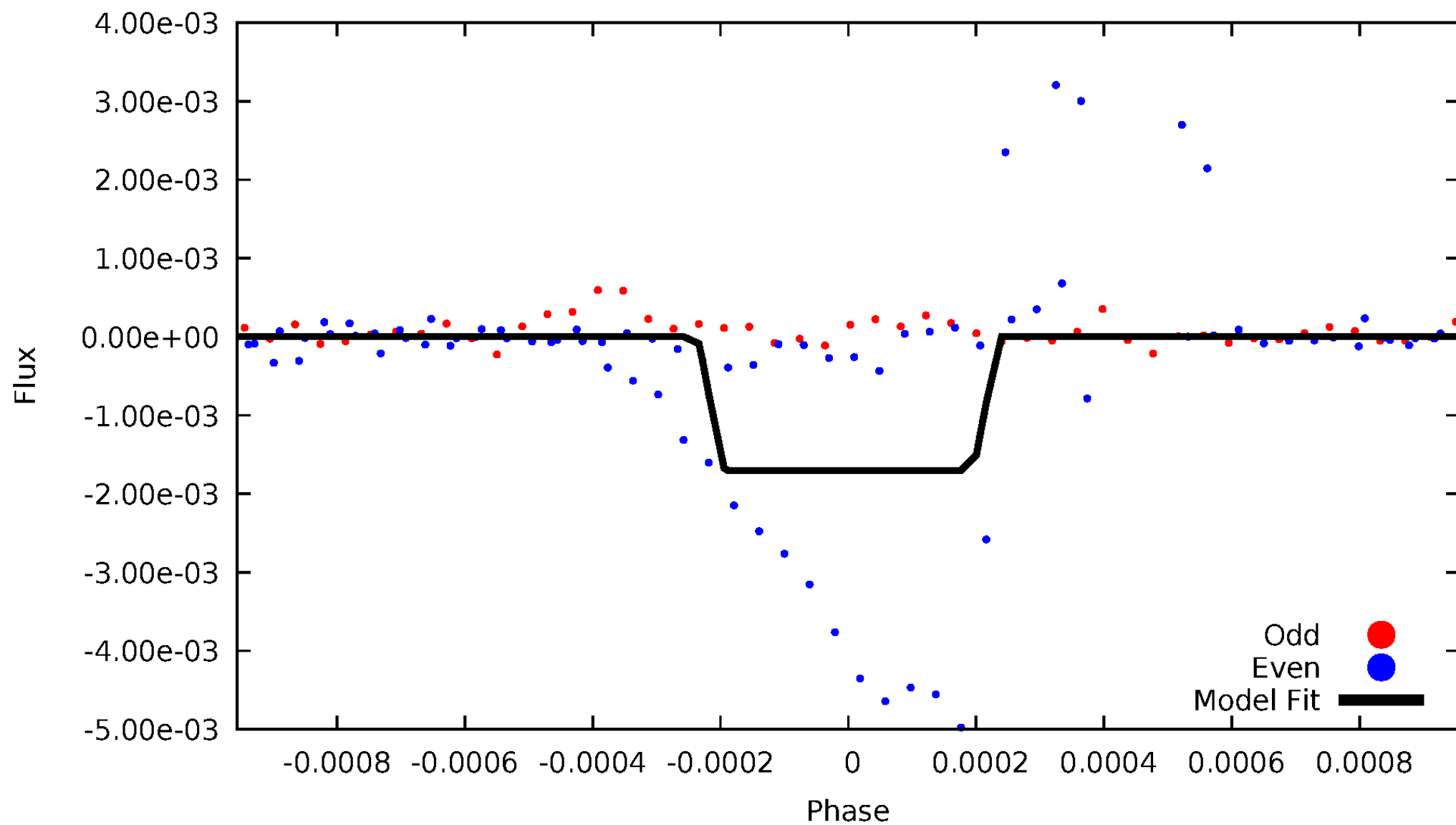
DV Odd/Even

TCE 006269092-03



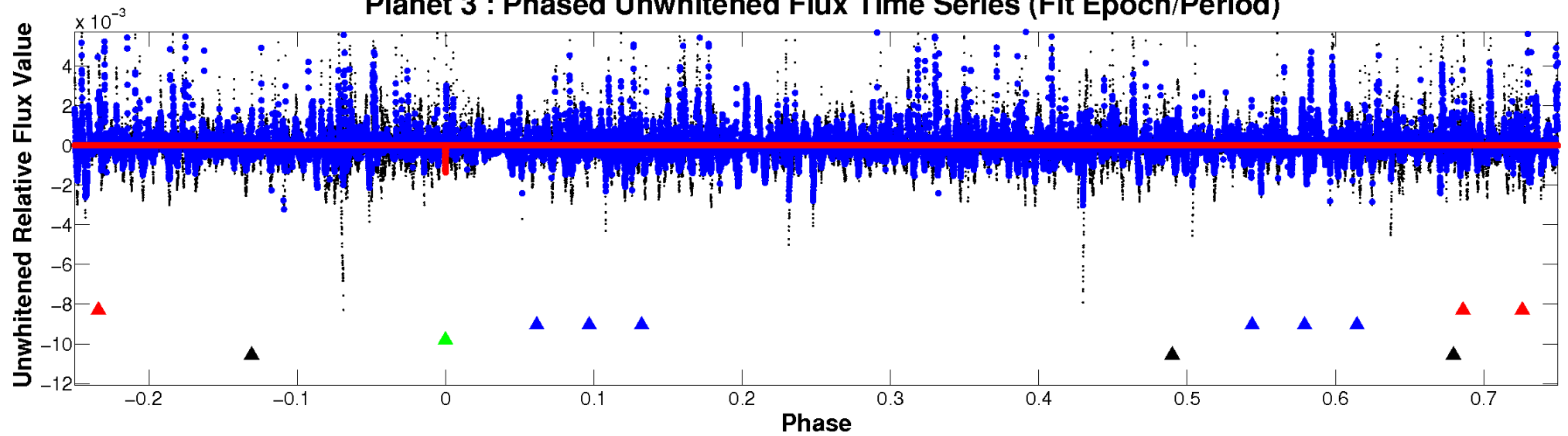
ALT Odd/Even

TCE 006269092-03

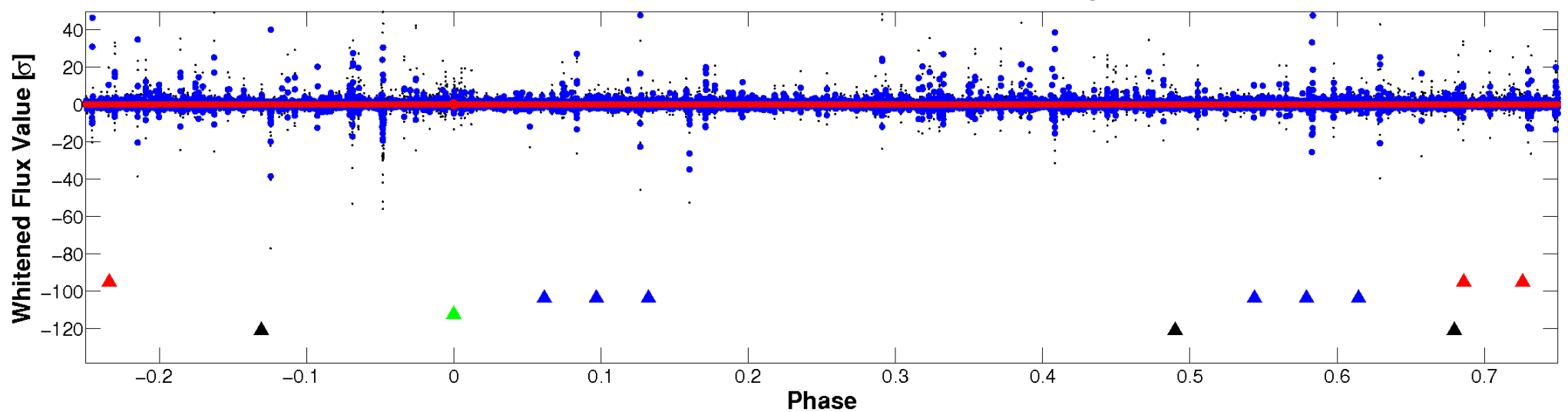


Non-Whitened Vs. Whitened Light Curve

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

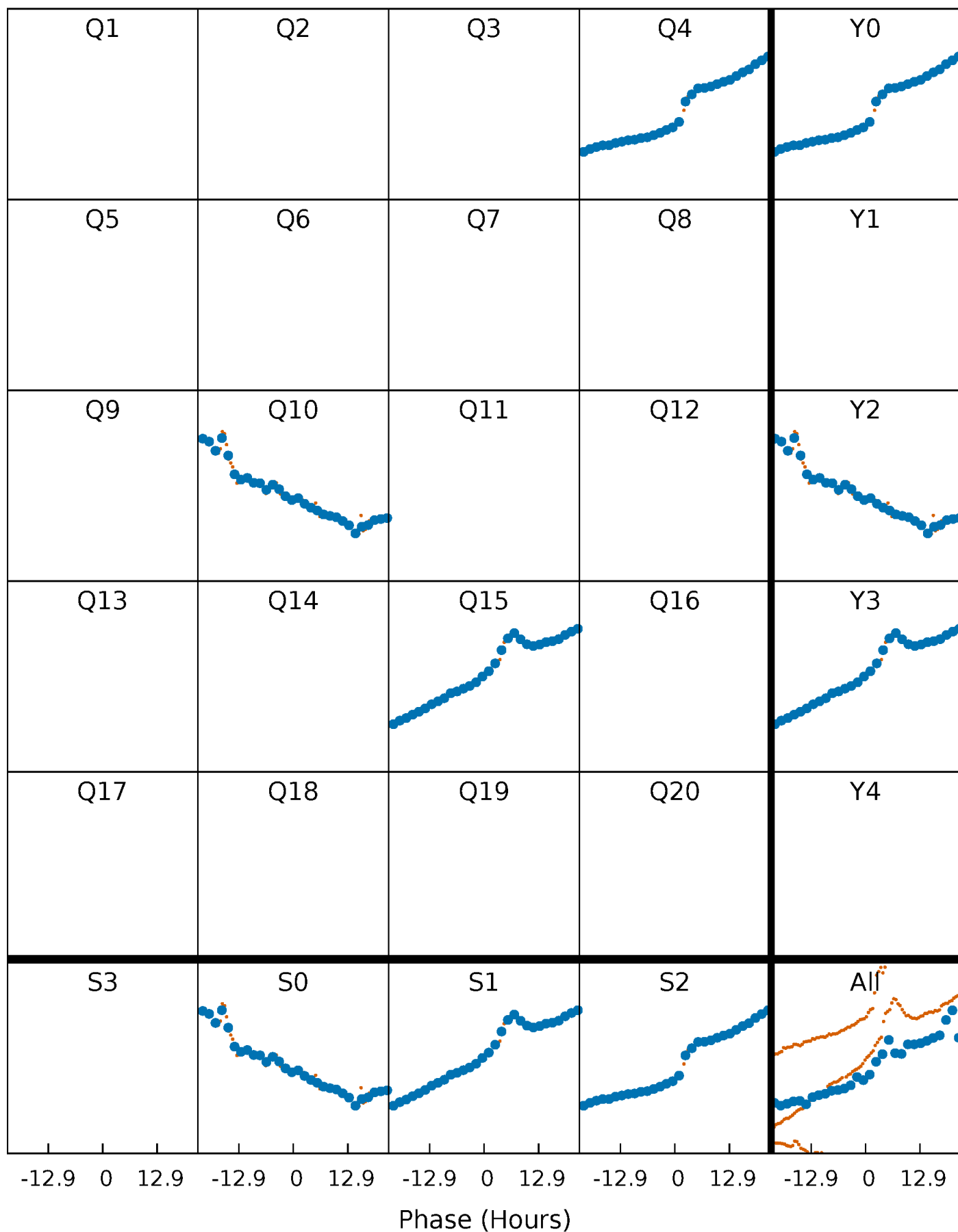


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



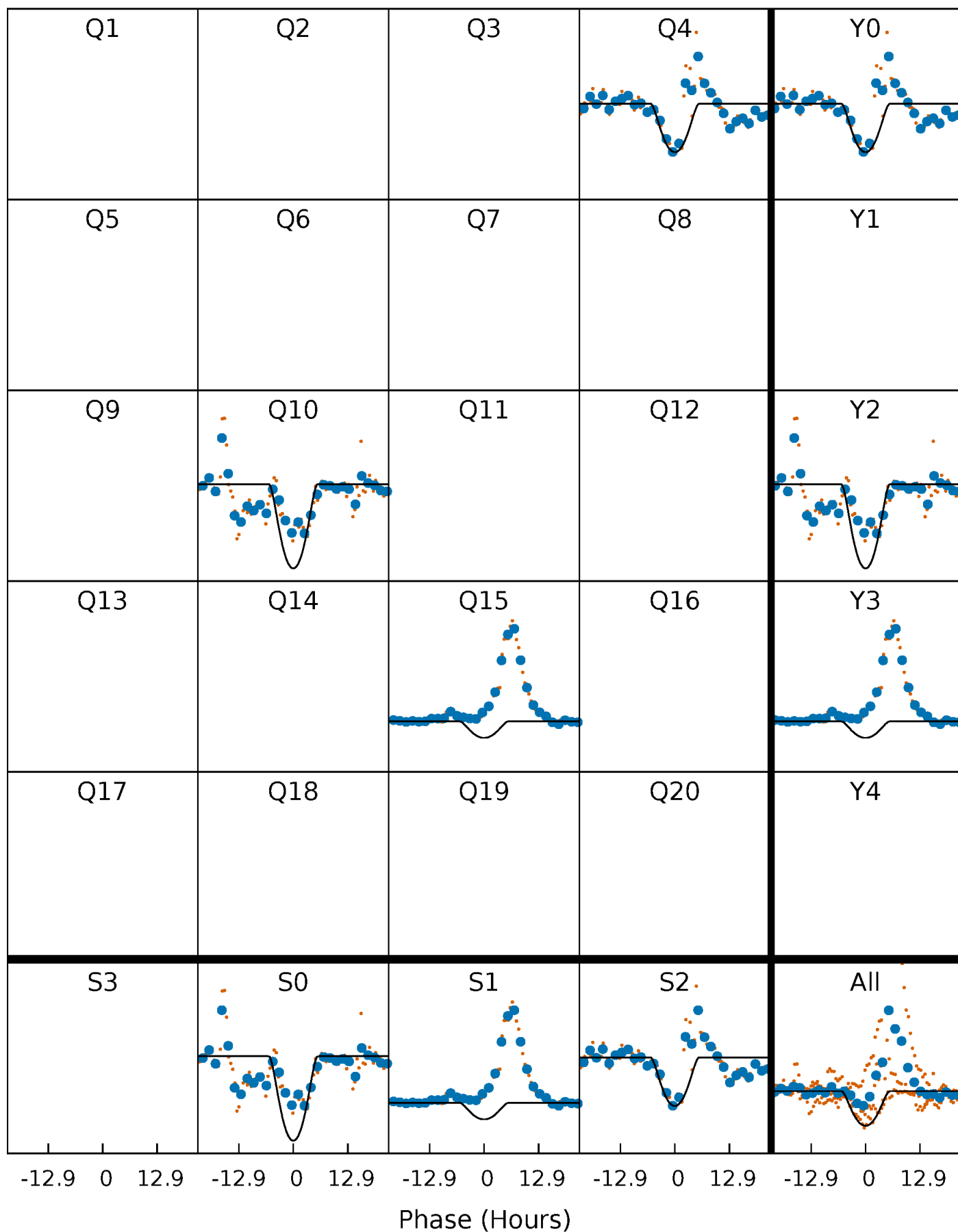
PDC Quarter-Phased Transit Curves

TCE 006269092-03 P=517.620859 Days $T_0=426.685370$ (BKJD)



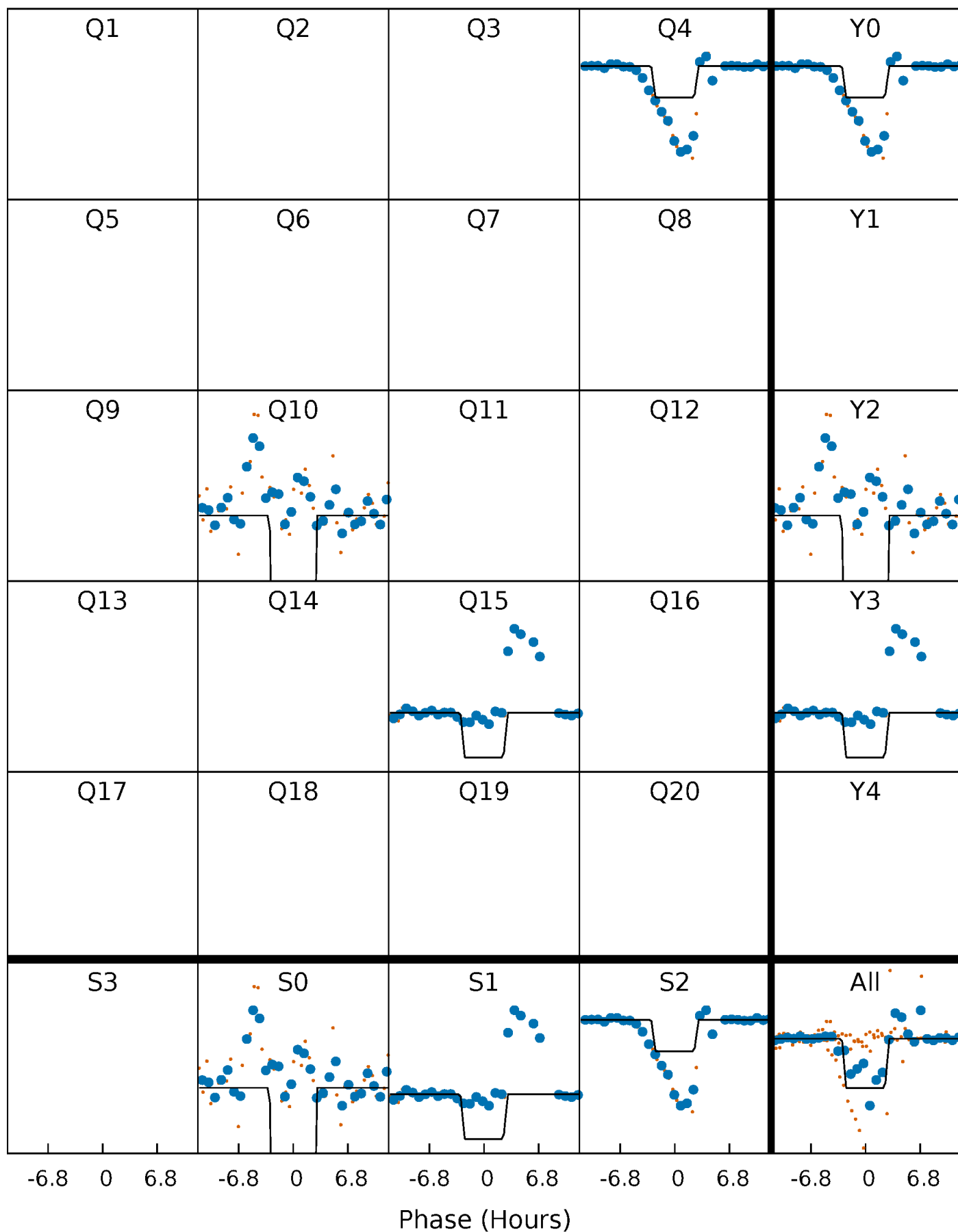
DV Quarter-Phased Transit Curves

TCE 006269092-03 $P=517.620859$ Days $T_0=426.685370$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

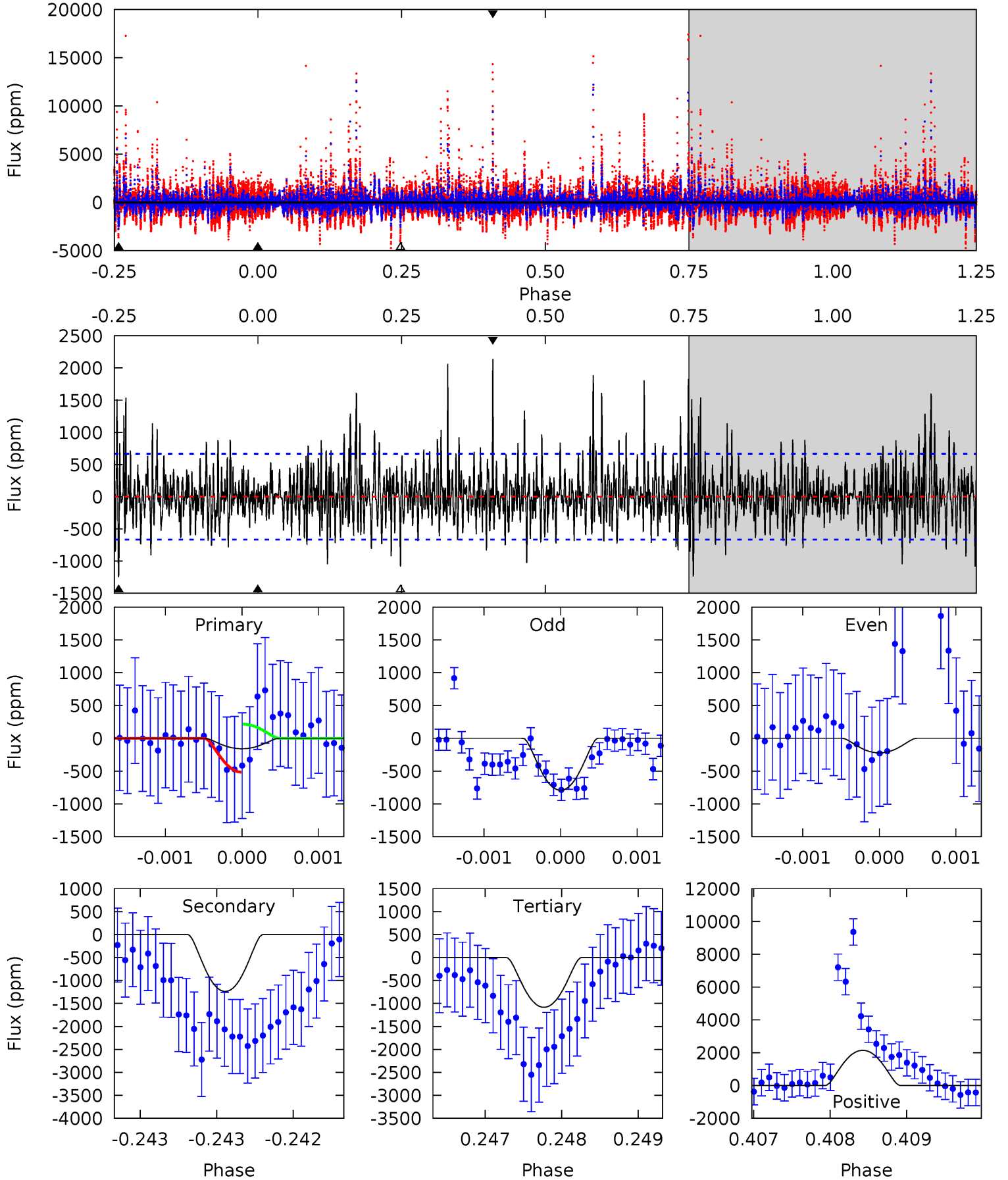
TCE 006269092-03 $P=517.656998$ Days $T_0=426.663598$ (BKJD)



DV Model-Shift Uniqueness Test

006269092-03, P = 517.620859 Days, E = 426.685370 Days

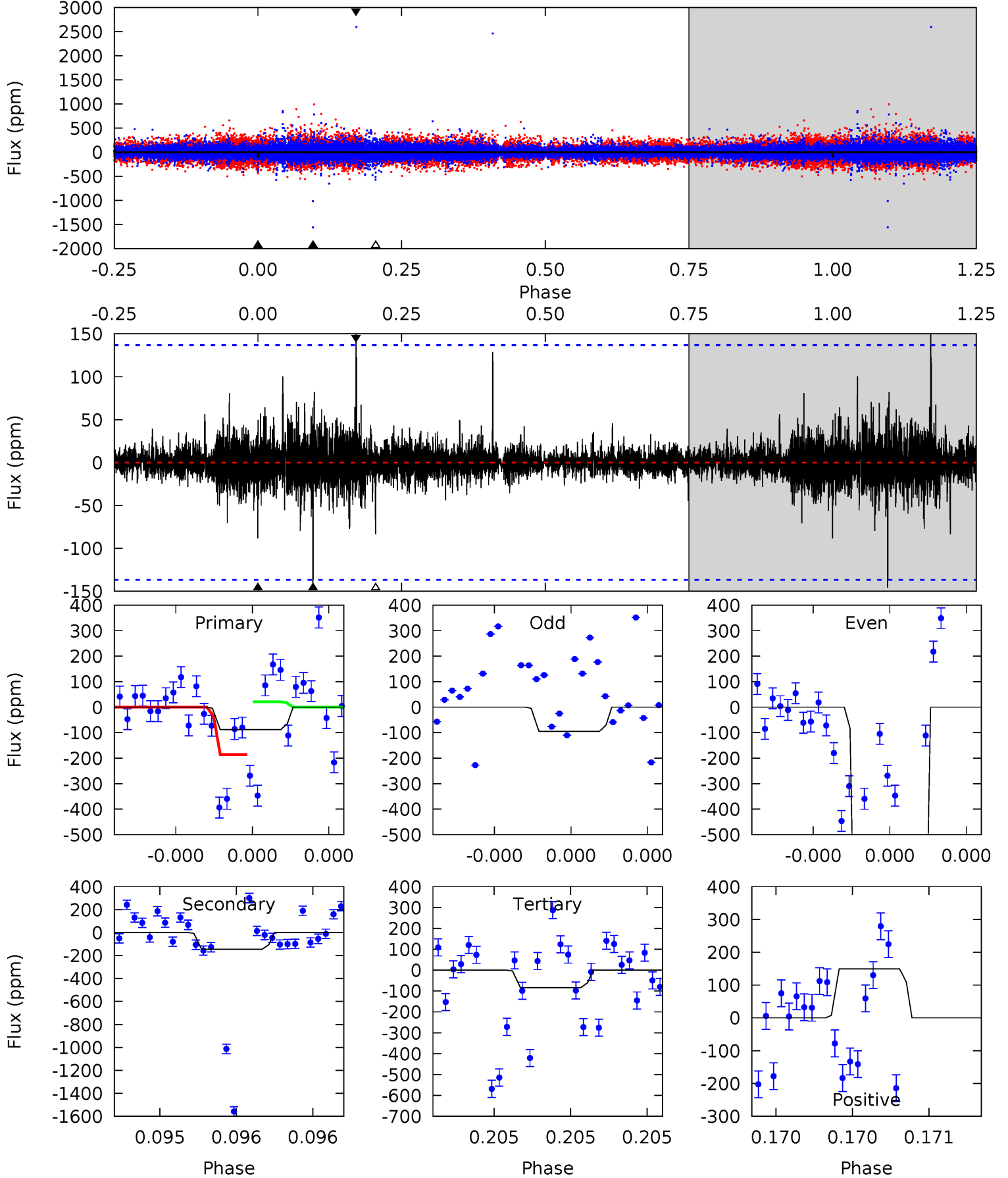
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.31	10.1	8.88	17.5	5.46	3.31	2.85	-7.57	-16.2	1.26	-7.40	1.26	0.09	0.63	1.25



Alt Model-Shift Uniqueness Test

006269092-03, P = 517.656998 Days, E = 426.663598 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.61	5.95	3.42	6.11	5.59	3.51	0.52	0.19	-2.50	2.53	-0.16	22.8	7.37	0.51	0



Stellar Parameters For KIC 006269092

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4518^{+159}_{-175}	$4.625^{+0.054}_{-0.027}$	$-0.340^{+0.300}_{-0.300}$	$0.635^{+0.052}_{-0.058}$	$0.621^{+0.077}_{-0.045}$	$3.417^{+0.842}_{-0.412}$
	+4%/-4%	+1%/-1%	+88%/-88%	+8%/-9%	+12%/-7%	+25%/-12%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006269092-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1237 ± 122	$3.64^{+2.30}_{-1.88}$	213^{+8}_{-10}	3880^{+1220}_{-559}	$61186^{+203854}_{-37699}$
Alt.	-146 ± 24	$3.02^{+2.41}_{-1.71}$	213^{+8}_{-9}	2950^{+897}_{-424}	10053^{+47420}_{-6845}

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

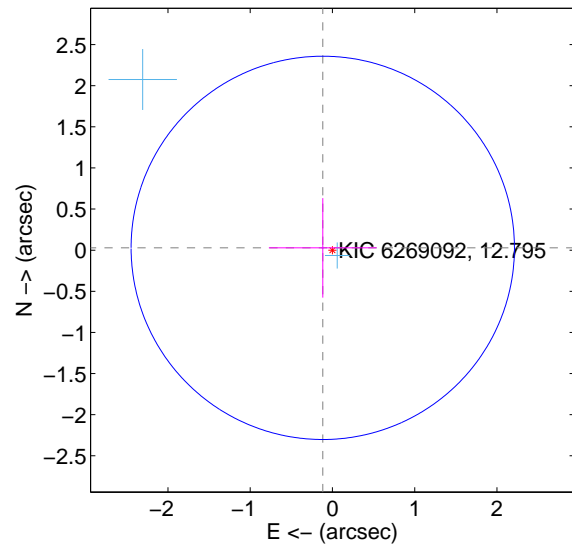
Supplemental centroid analysis for 006269092-03. Kepler magnitude: 12.79. Transit SNR 6.21

There are 3 quarters with good PRF difference image offsets

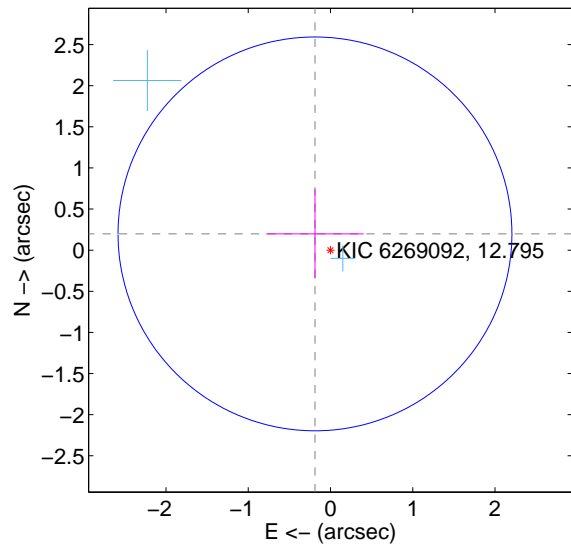
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.121 ± 0.777	0.16	0.118 ± 0.656	0.028 ± 0.605
PRF-fit source offset from KIC position	0.274 ± 0.798	0.34	0.189 ± 0.593	0.198 ± 0.541
photometric centroid source offset	0.26 ± 0.19	1.38	-0.03 ± 0.24	0.26 ± 0.19

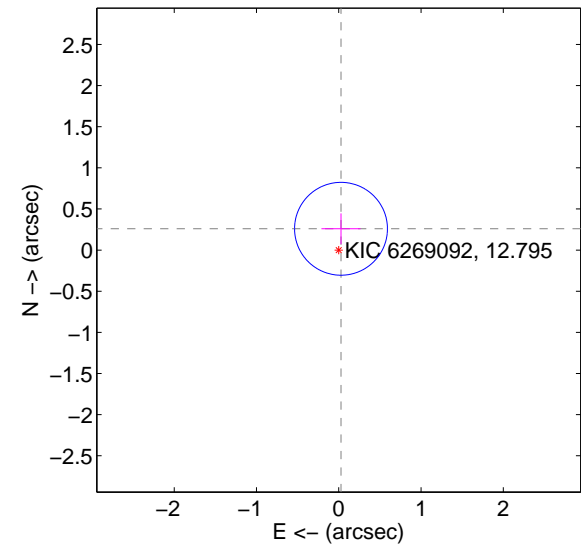
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

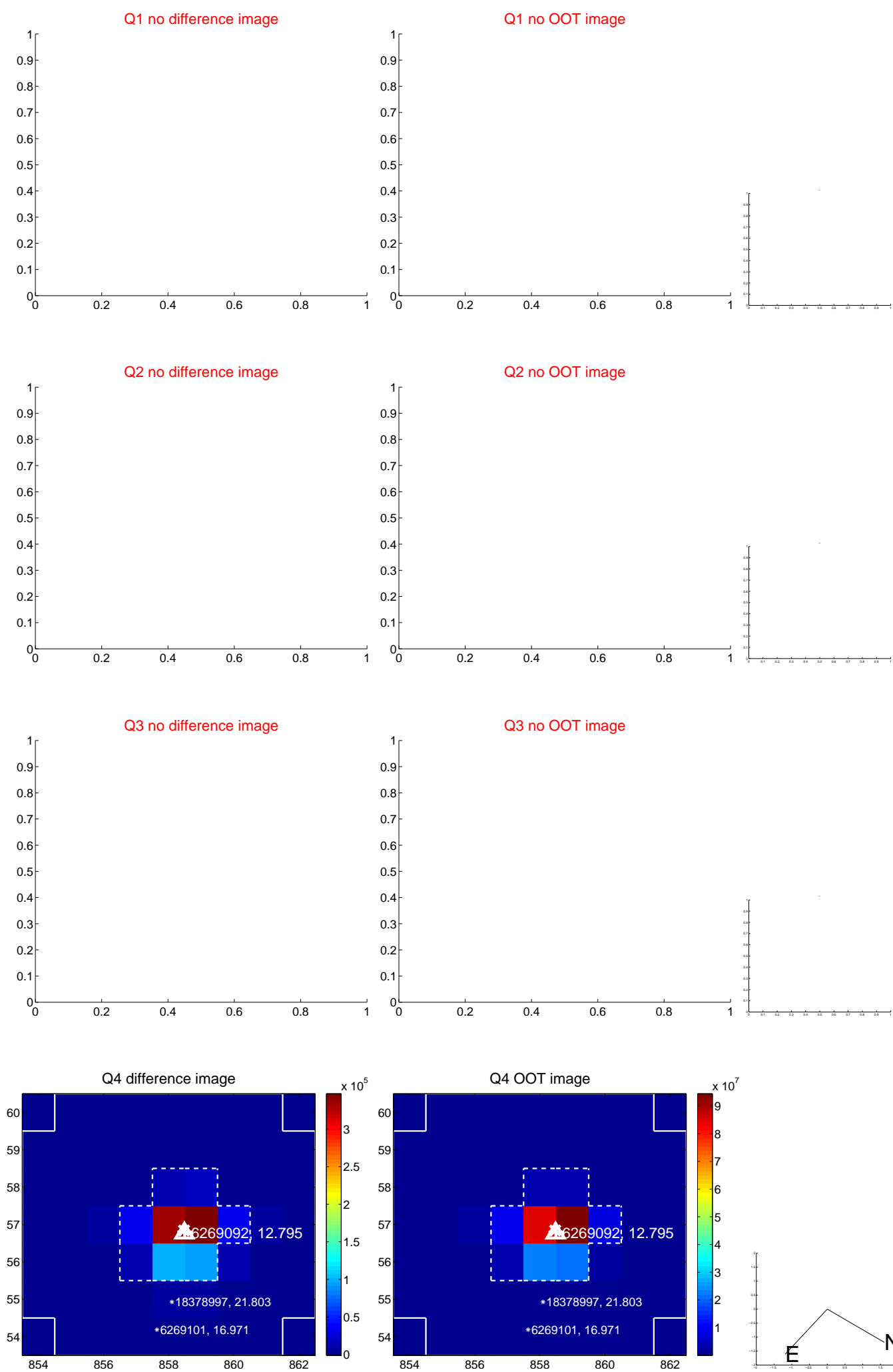


offset from photometric centroids



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.

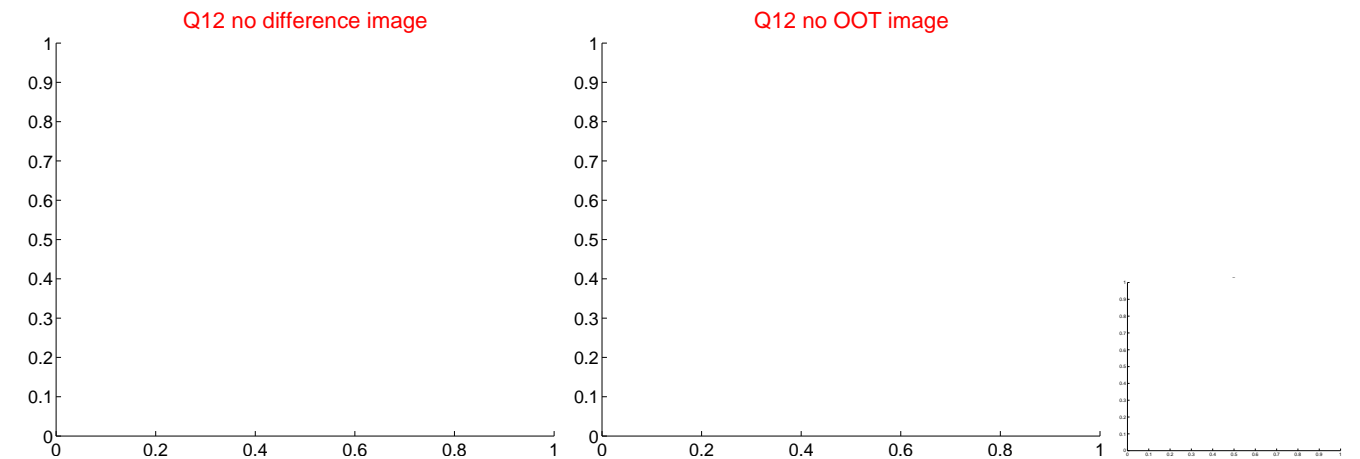
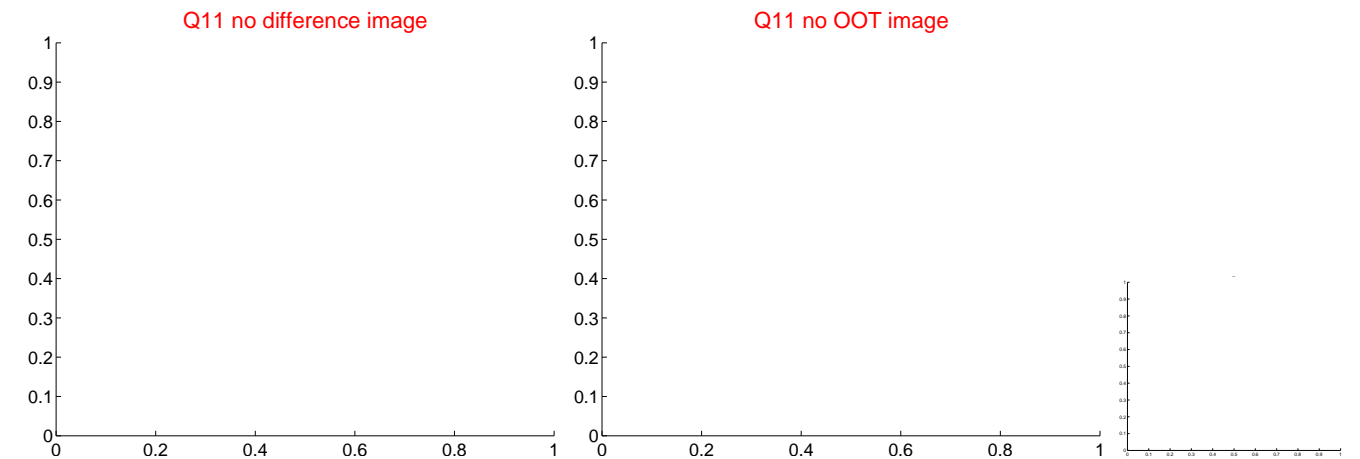
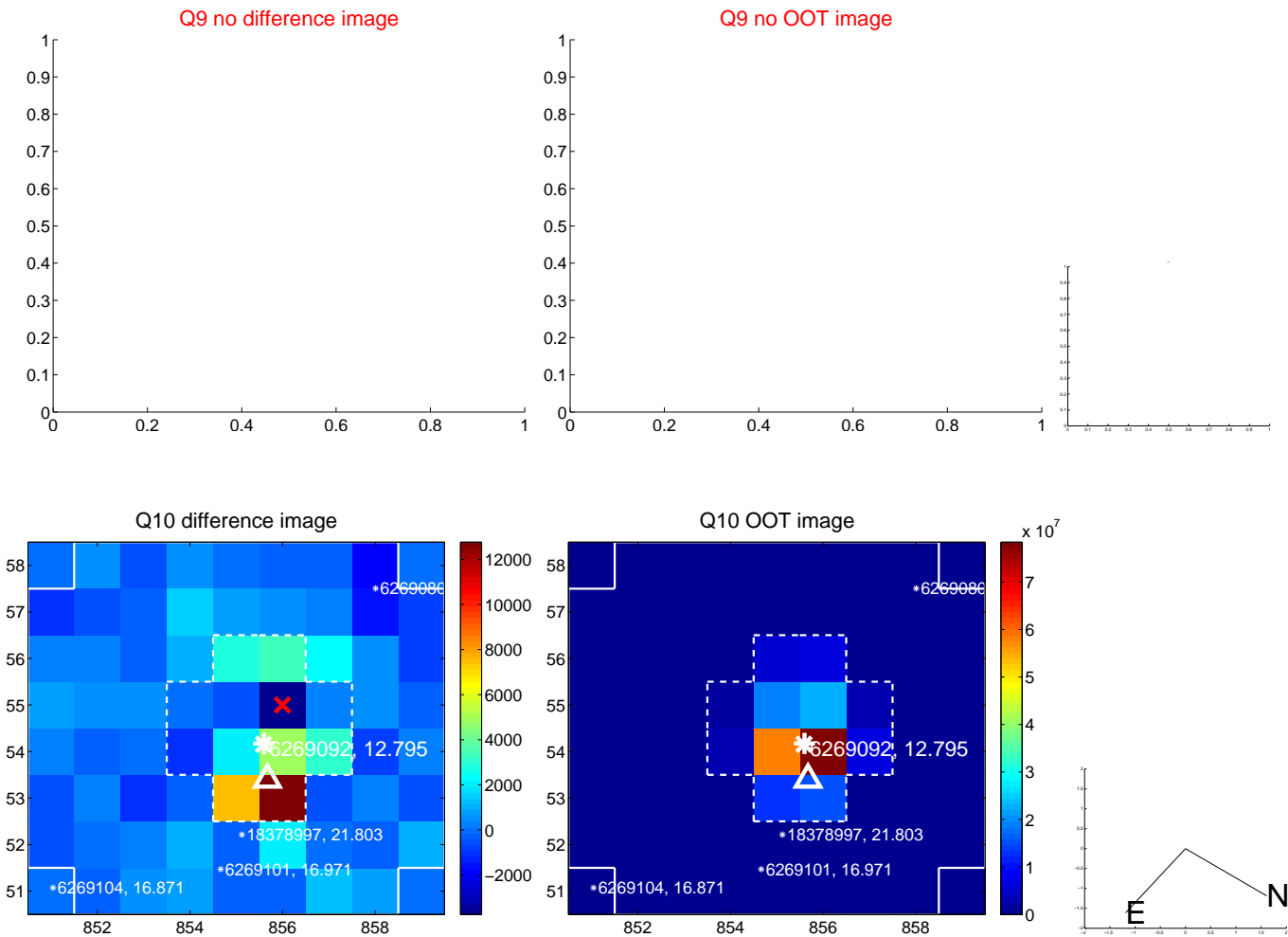
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



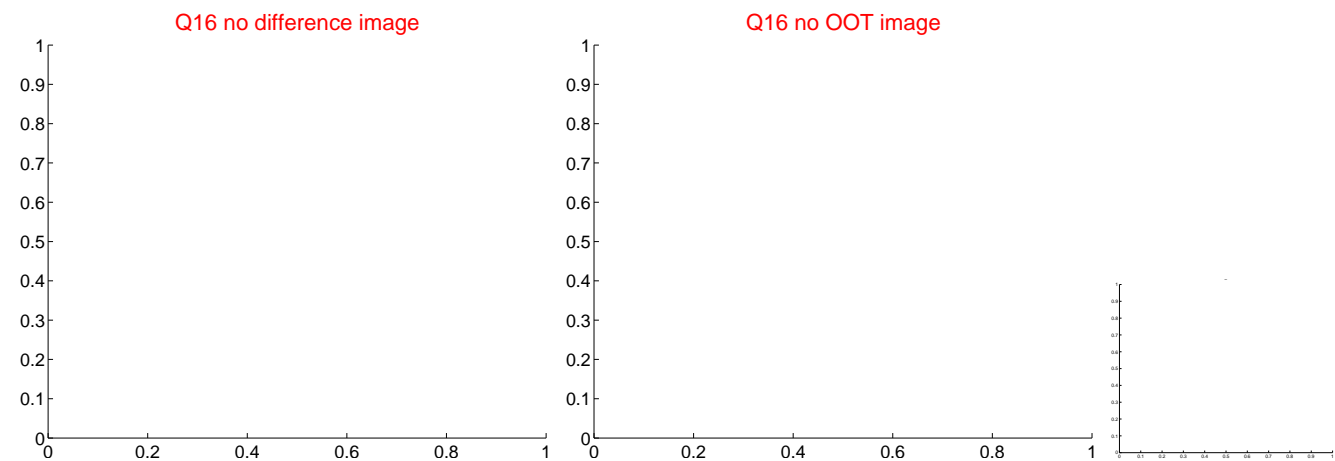
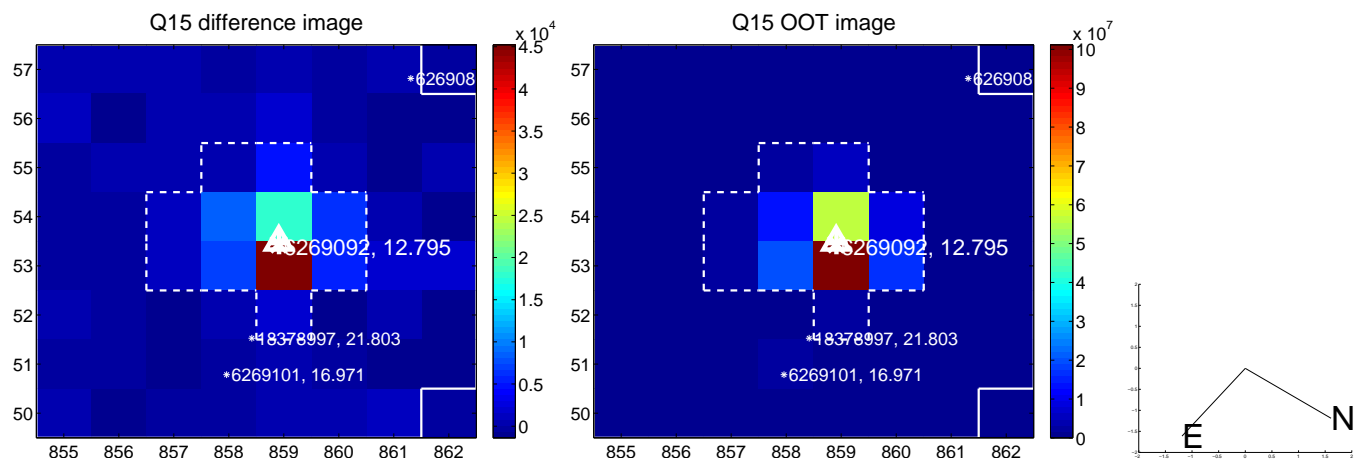
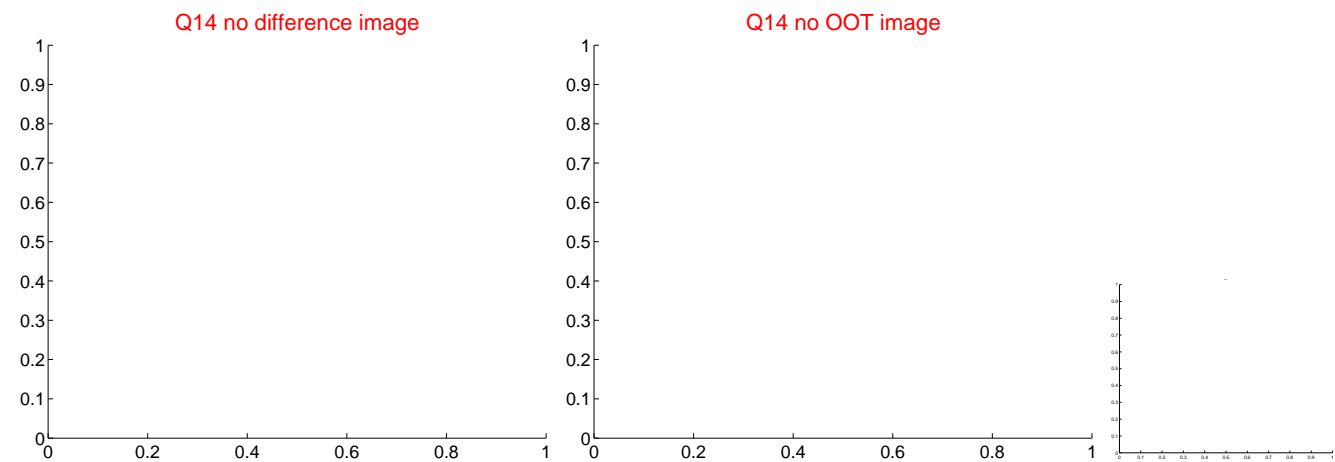
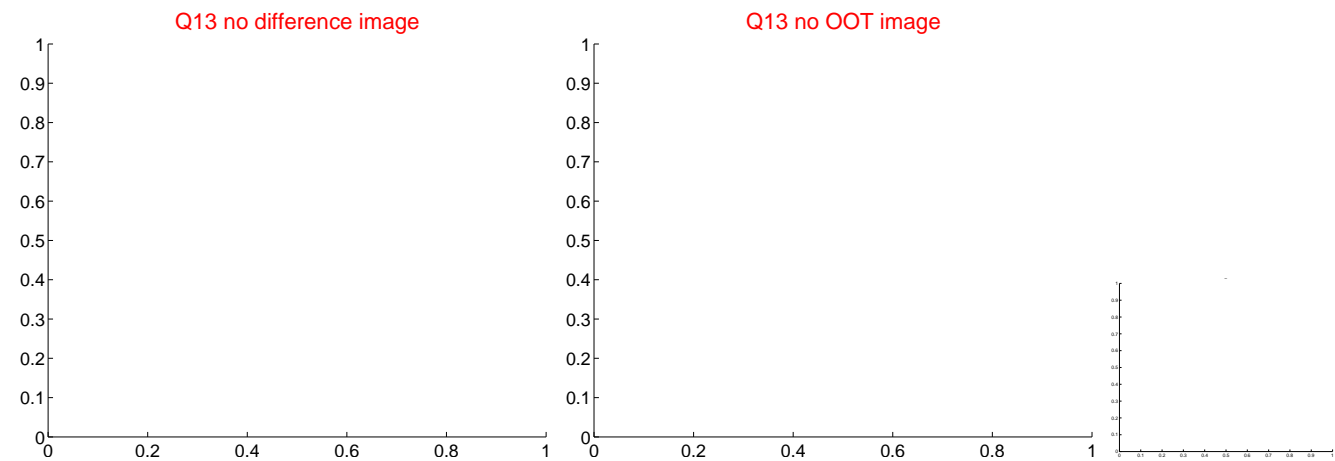
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



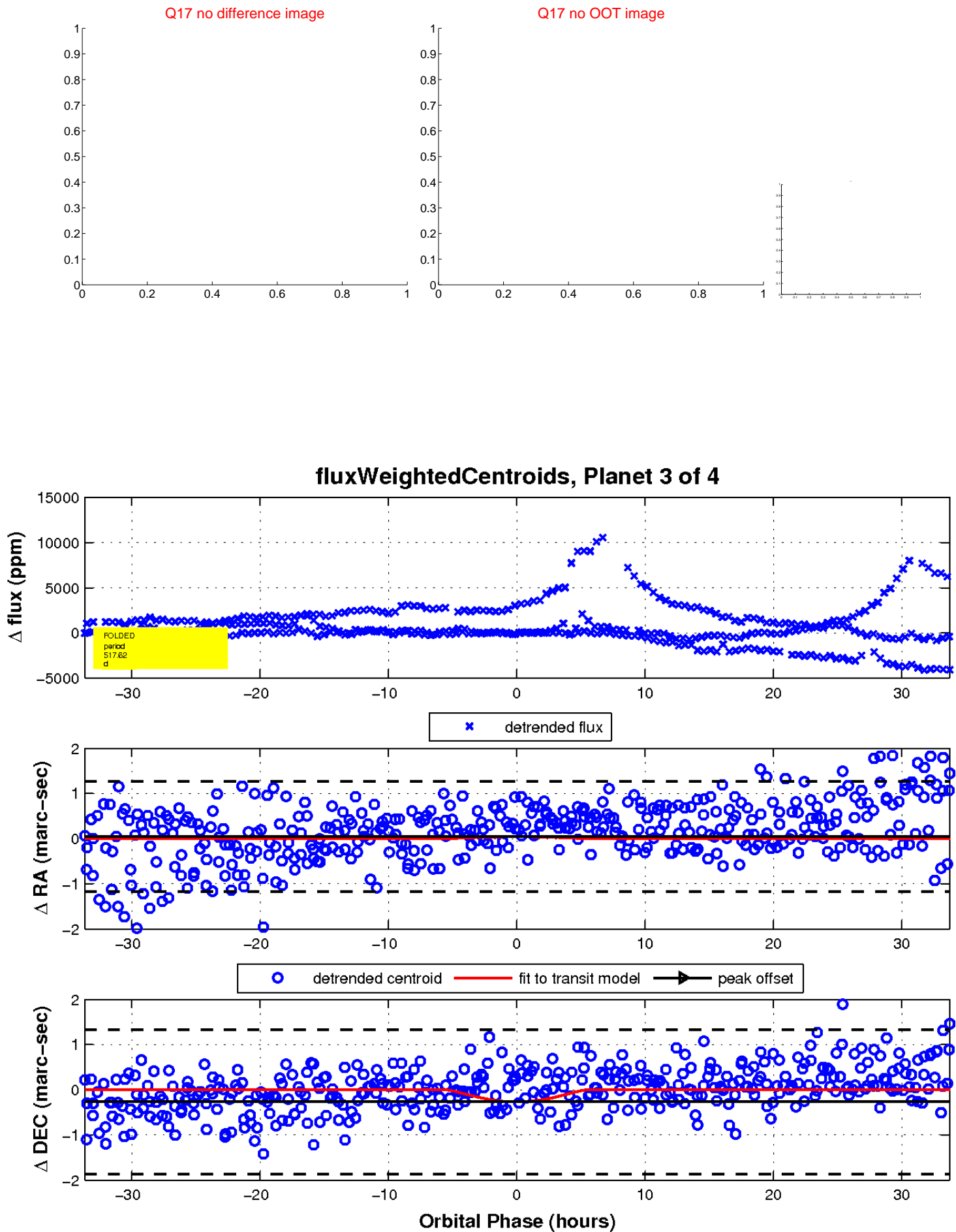
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

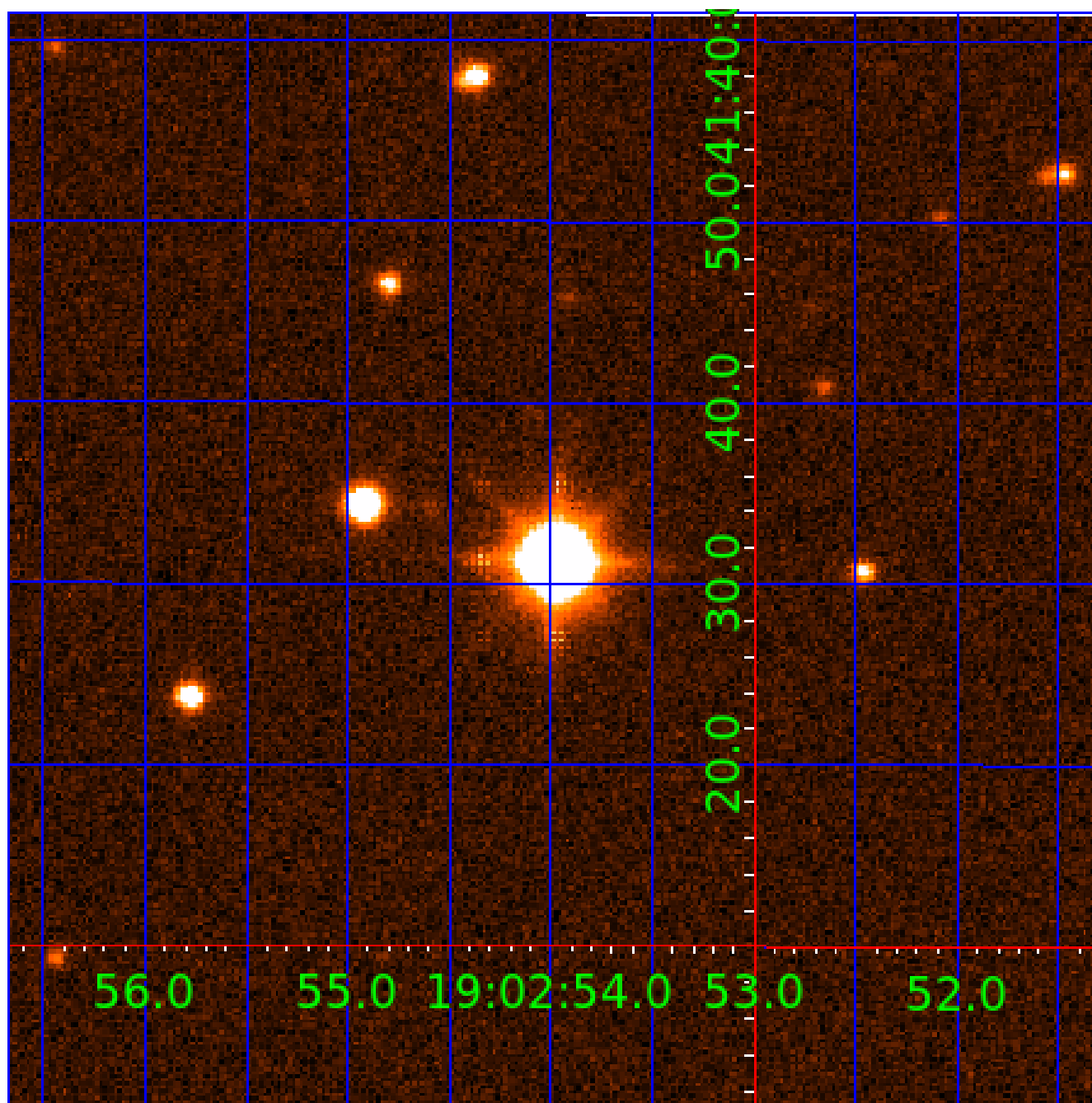


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006269092

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})
006269092-02	OBS	No	267.961658	190.578627	871.6	7.617	16.1	5.3	0.64	4518	1.80	0.31
006269092-03	OBS	No	517.620859	426.685371	1360.5	11.300	18.6	6.2	0.64	4518	3.57	0.13
006269092-04	OBS	No	615.787420	162.699793	1045.7	3.639	16.4	7.5	0.64	4518	2.24	0.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006269092-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006269092-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS
006269092-04	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

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

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

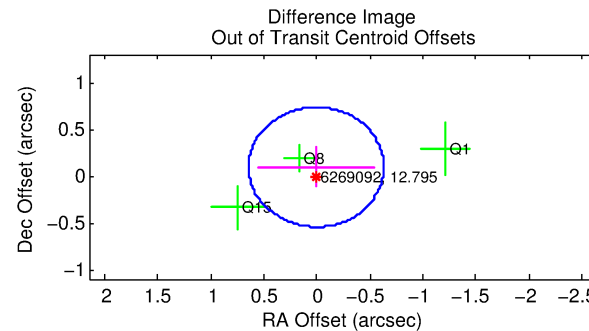
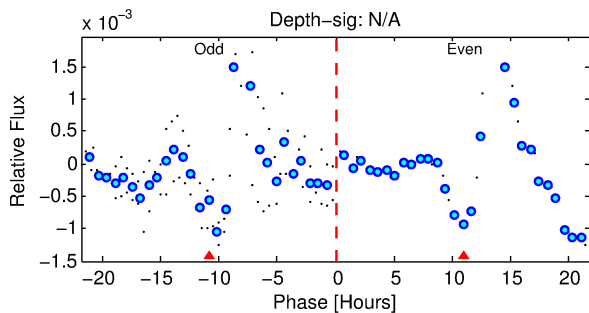
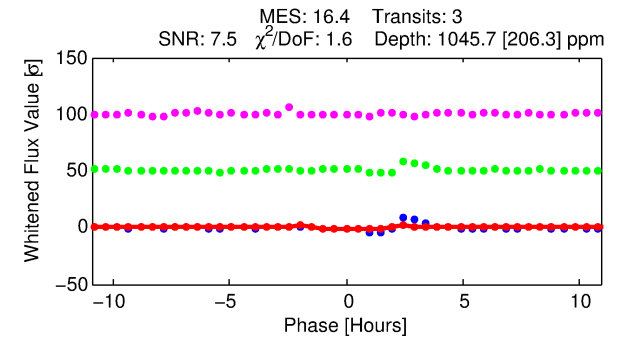
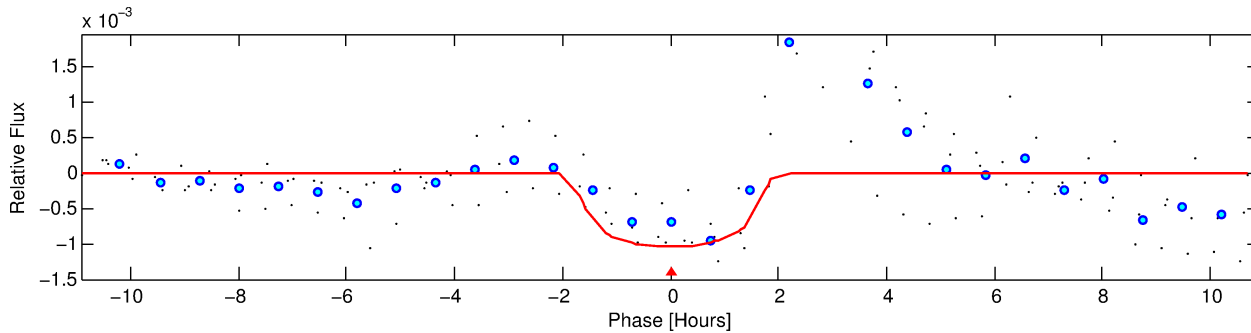
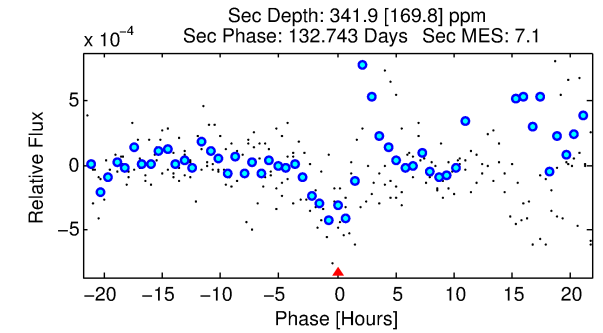
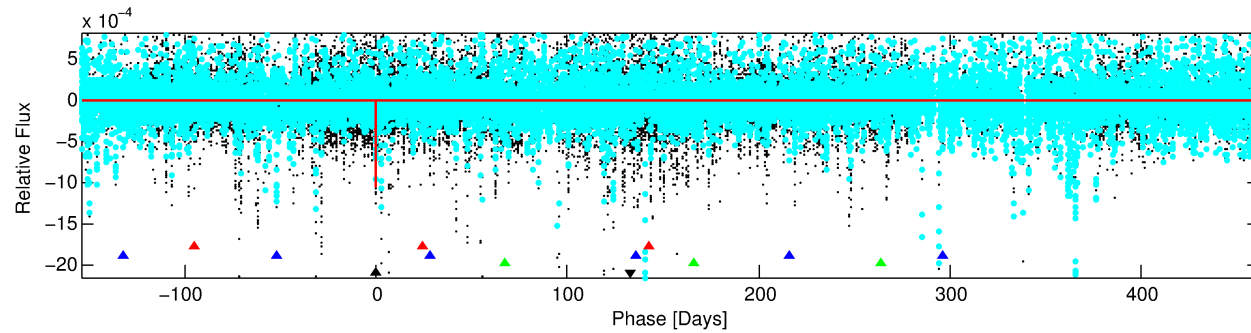
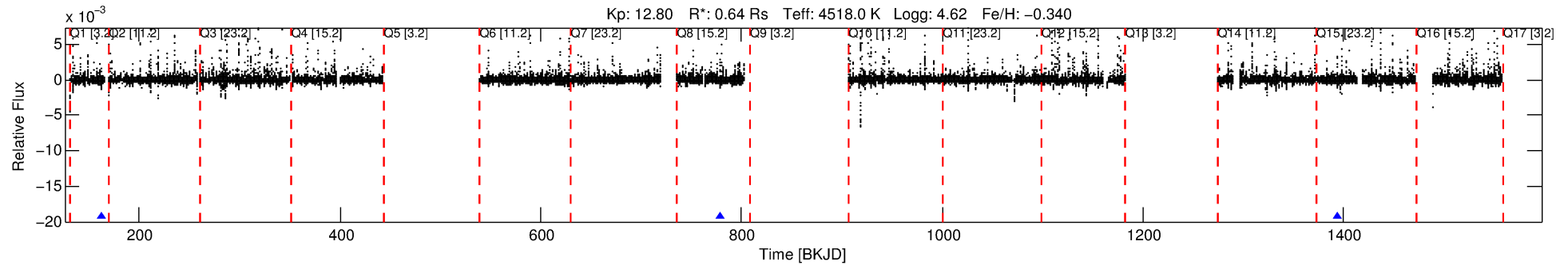
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006269092-04

No Significant Match Found

DV One-Page Summary

KIC: 6269092 Candidate: 4 of 4 Period: 615.787 d



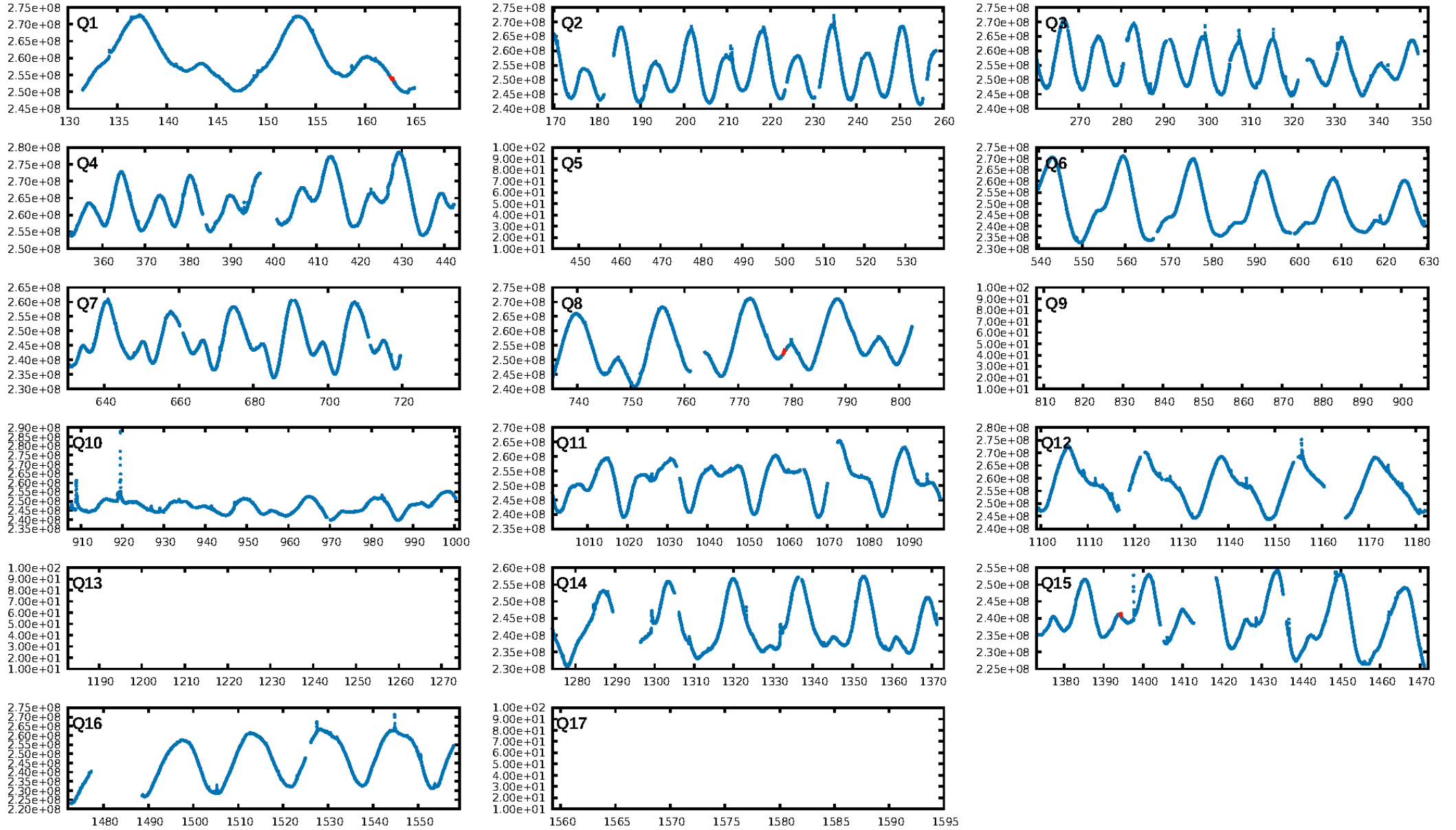
DV Fit Results:

Period = 615.78742 [0.00459] d
Epoch = 162.6998 [0.0064] BKJD
Rp/R* = 0.0323 [0.0313]
a/R* = 921.54 [2987.00]
b = 0.75 [1.98]
Seff = 0.10 [0.02]
Teq = 144 [7] K
Rp = 2.24 [2.18] Re
a = 1.2083 [0.0890] AU
Ag = 54672.80 [109420.54] [0.50σ]
Teffp = 3416 [1712] K [1.91σ]

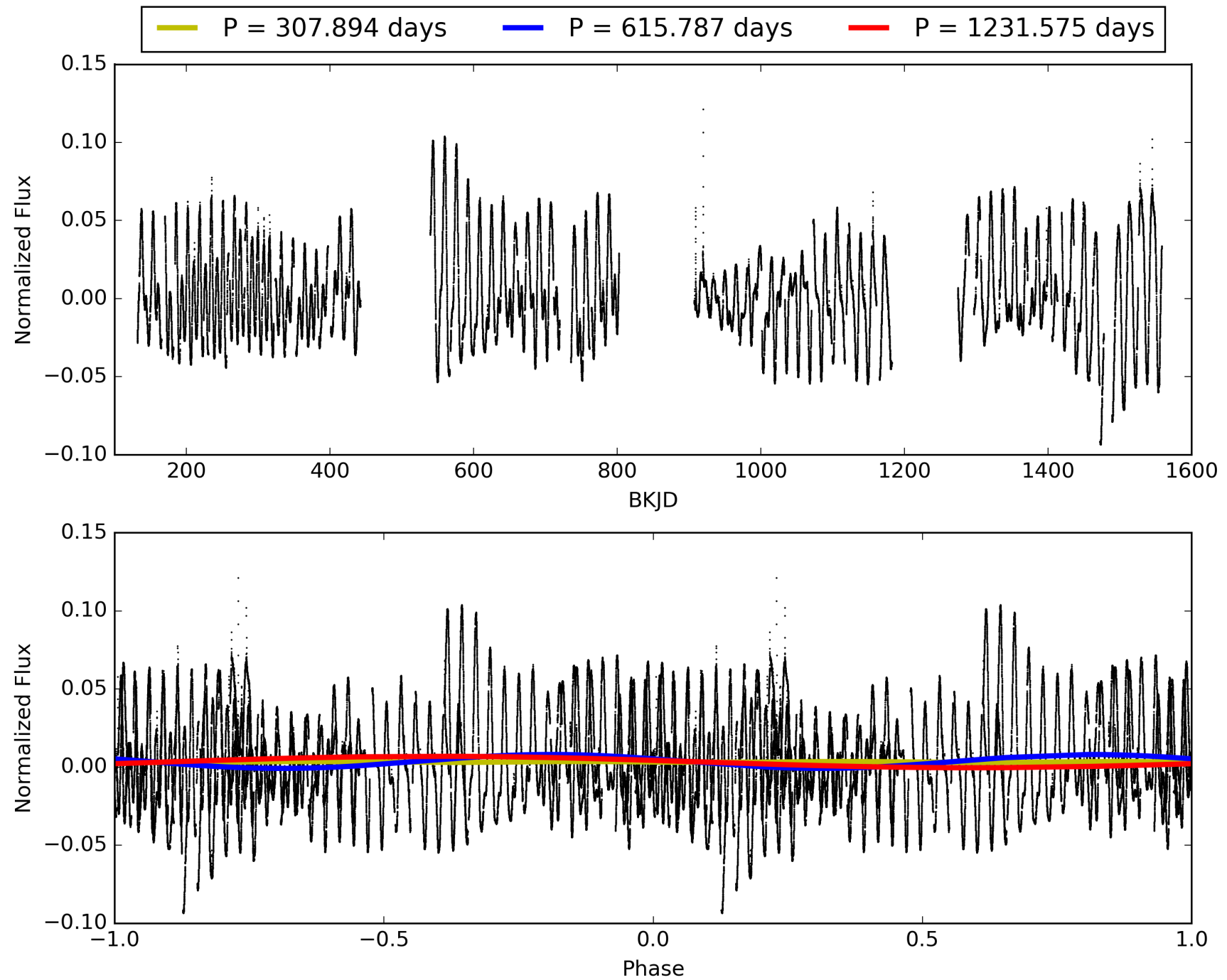
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [198.47σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 77.0%
ModelChiSquareGof-sig: 34.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 3.749
Centroid-sig: 48.1%
Centroid-so: 0.316 arcsec [0.85σ]
OotOffset-rm: 0.095 arcsec [0.45σ]
KicOffset-rm: 0.119 arcsec [0.35σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 006269092-04, PDC Light Curves

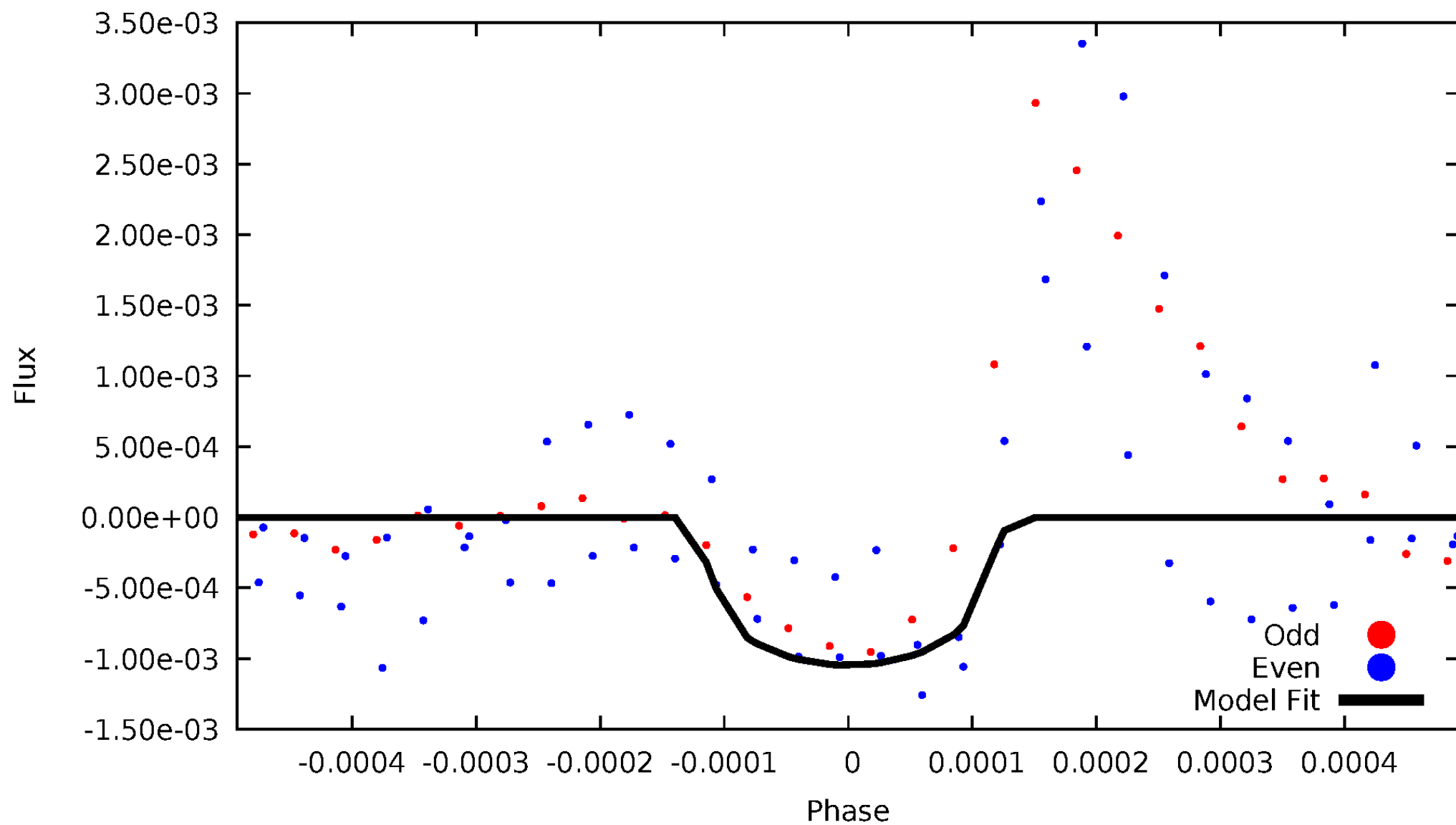


TCE 006269092-04



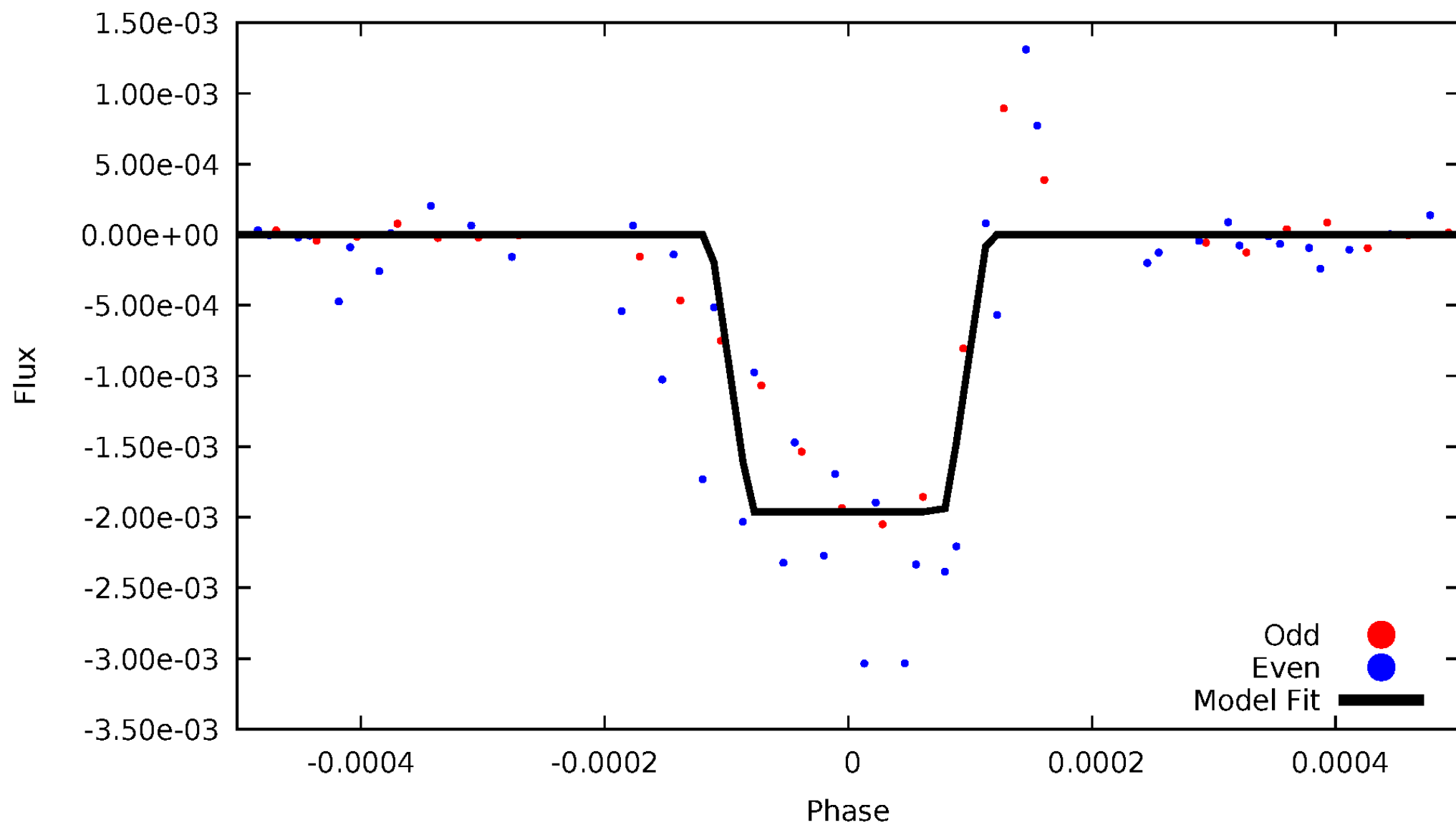
DV Odd/Even

TCE 006269092-04



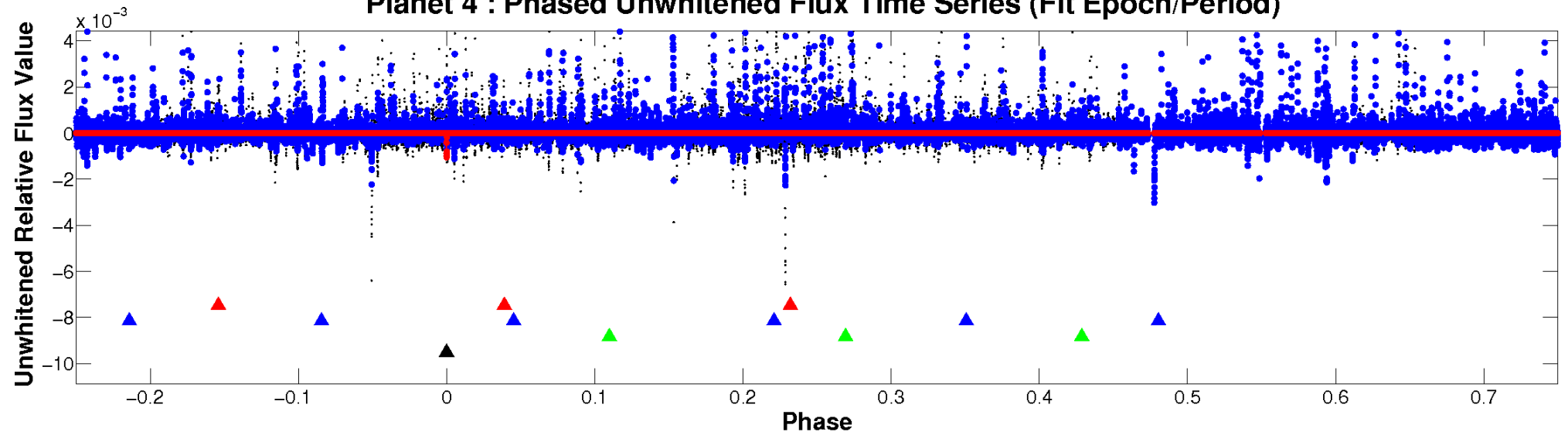
ALT Odd/Even

TCE 006269092-04

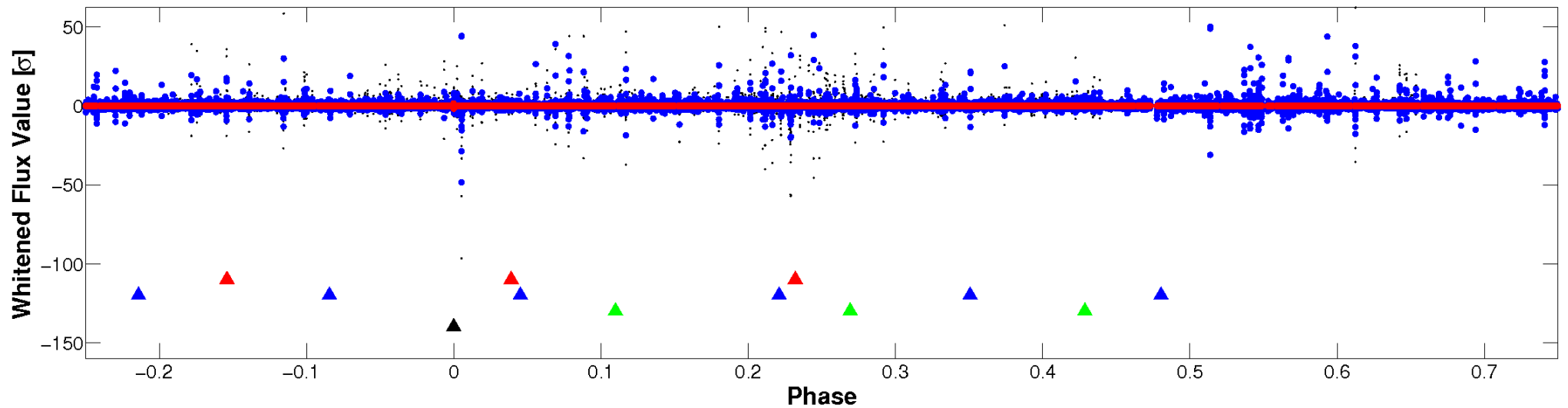


Non-Whitened Vs. Whitened Light Curve

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

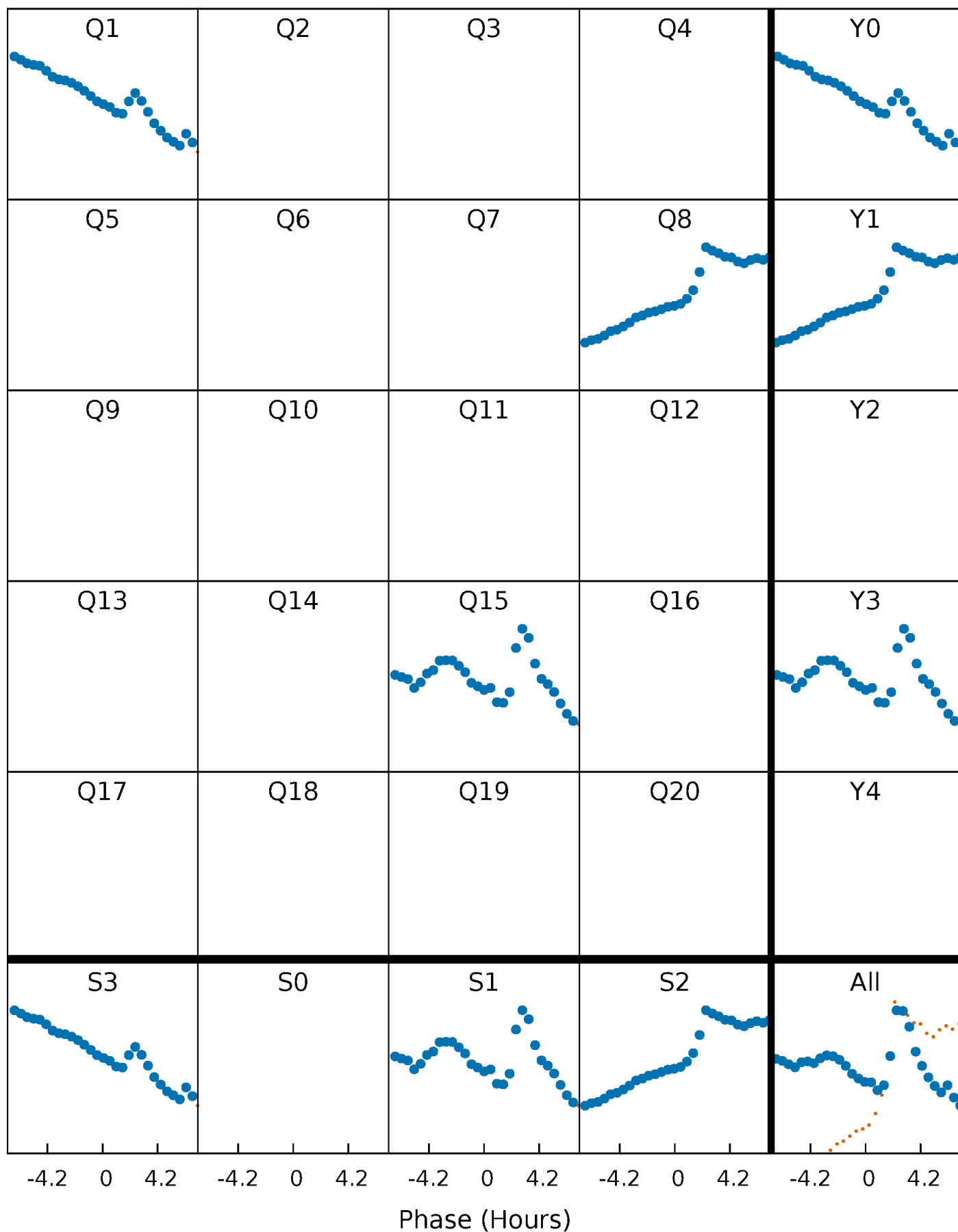


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



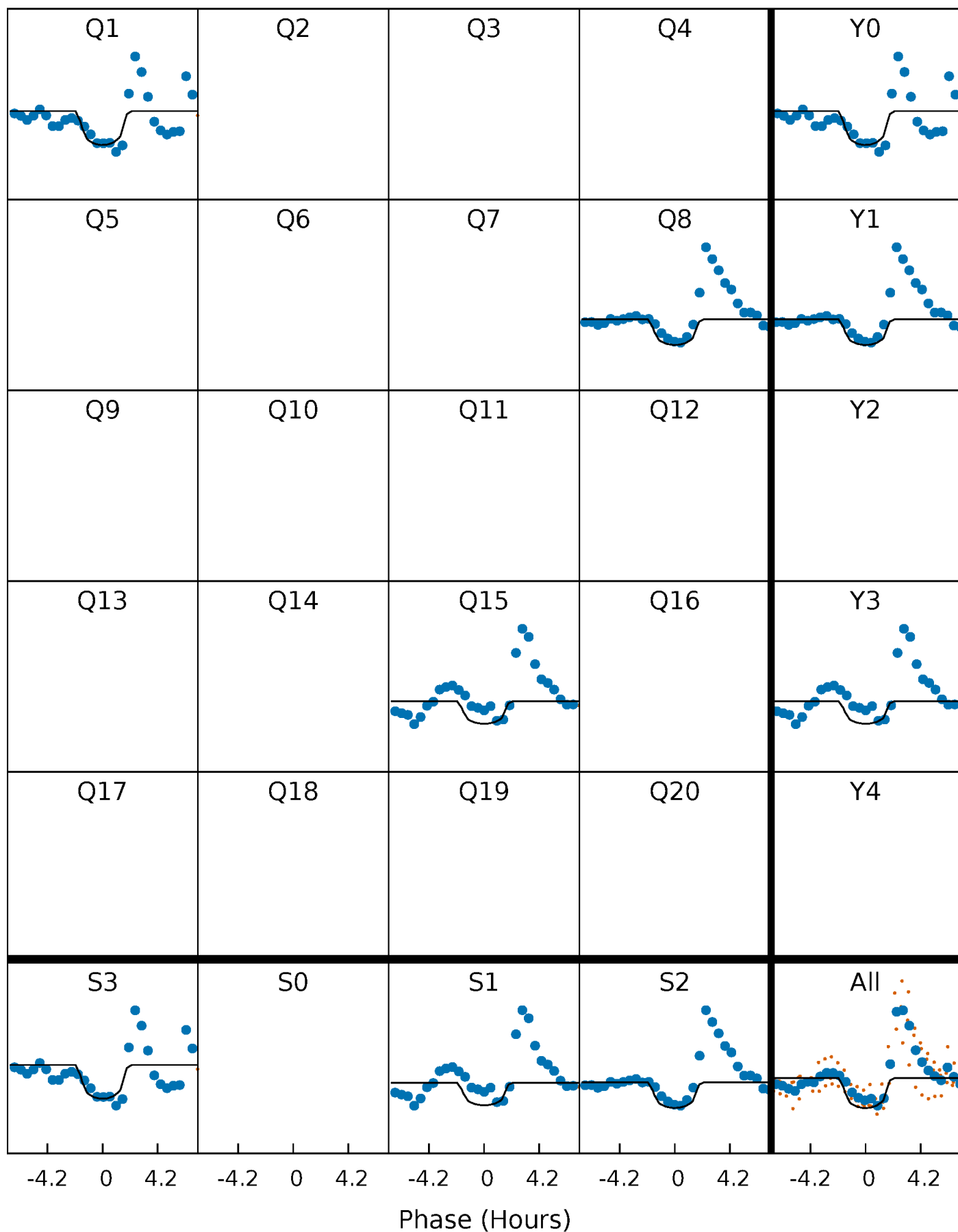
PDC Quarter-Phased Transit Curves

TCE 006269092-04 P=615.787420 Days $T_0=162.699793$ (BKJD)



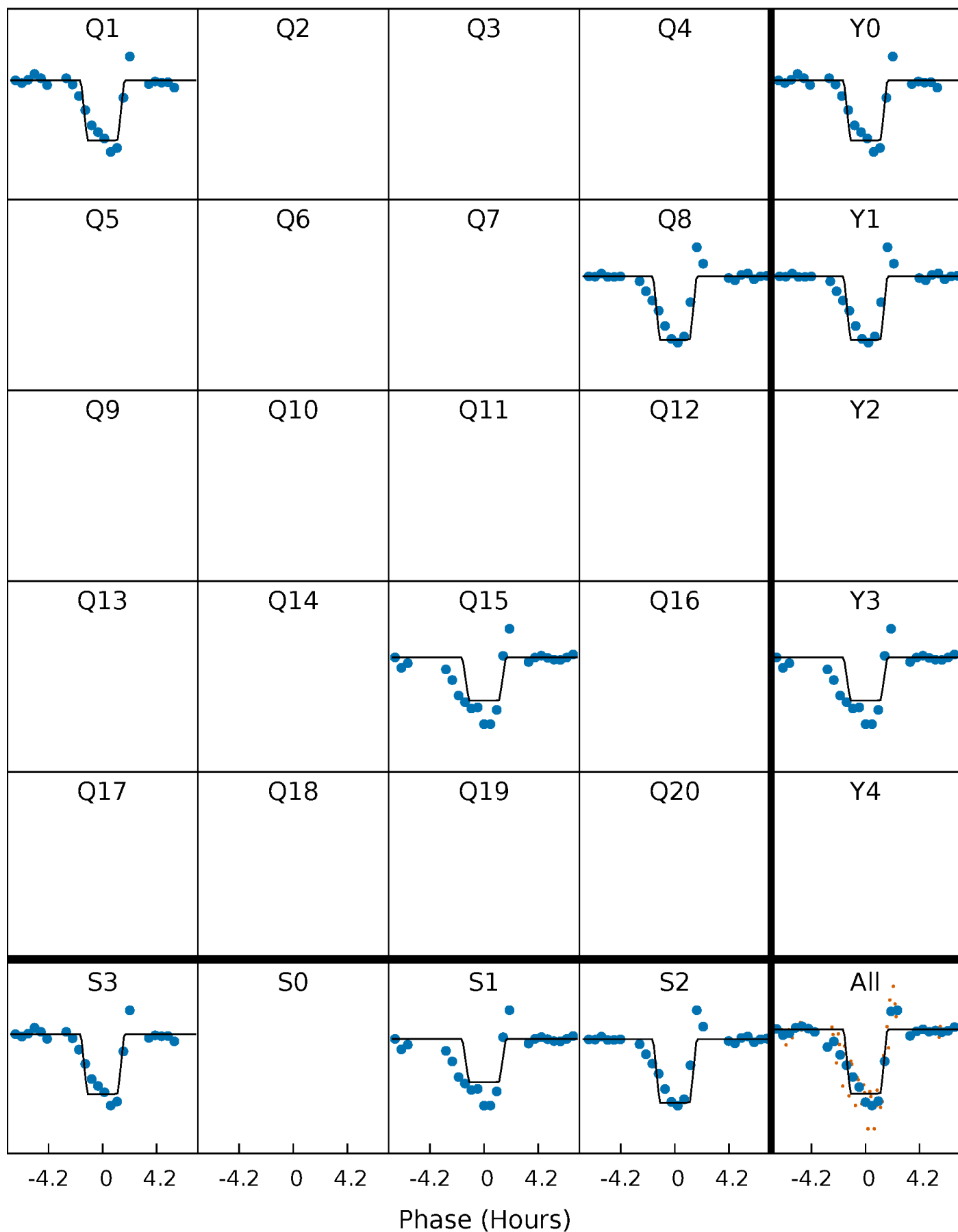
DV Quarter-Phased Transit Curves

TCE 006269092-04 P=615.787420 Days $T_0=162.699793$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

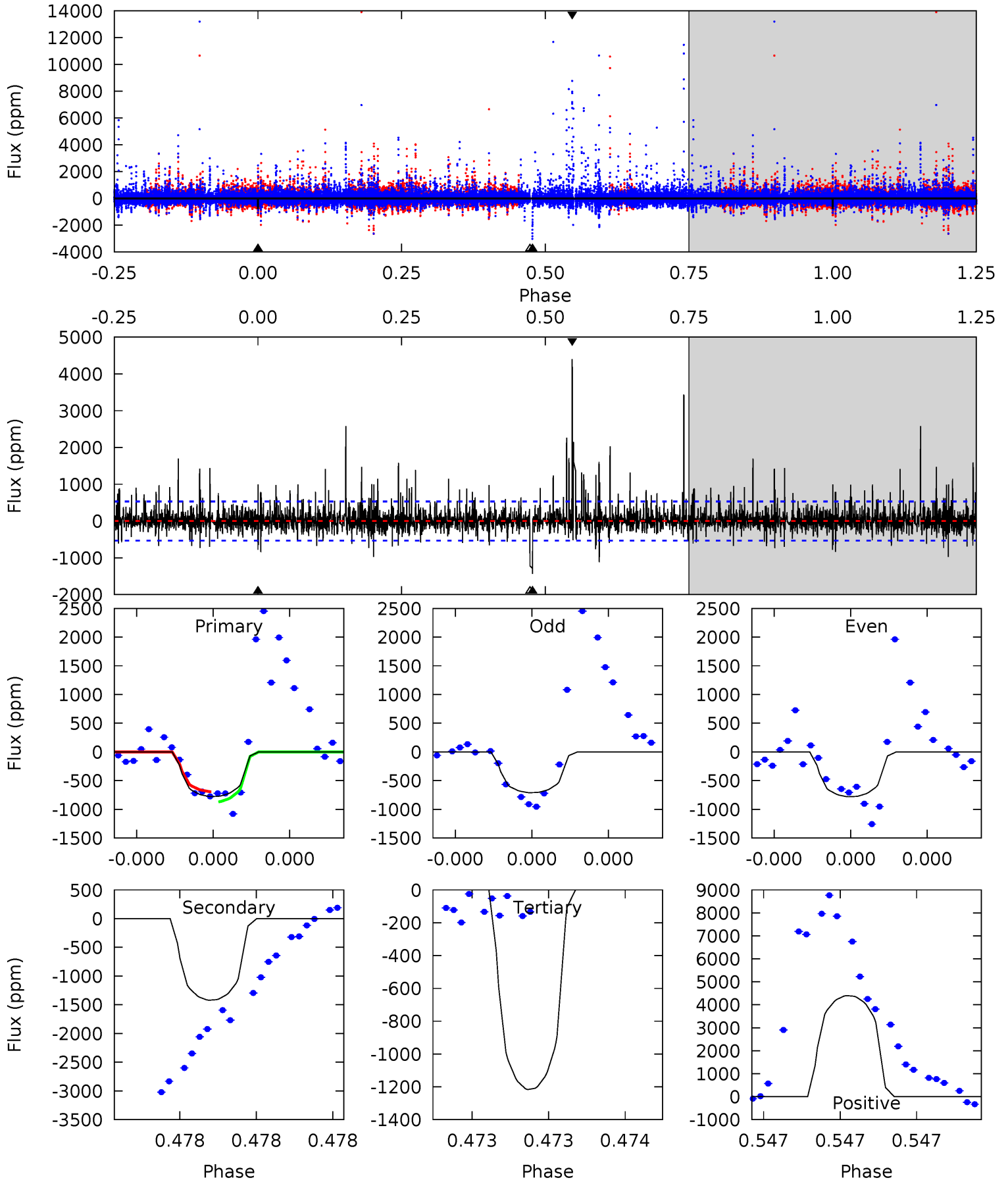
TCE 006269092-04 $P=615.799386$ Days $T_0=162.702145$ (BKJD)



DV Model-Shift Uniqueness Test

006269092-04, P = 615.787420 Days, E = 162.699793 Days

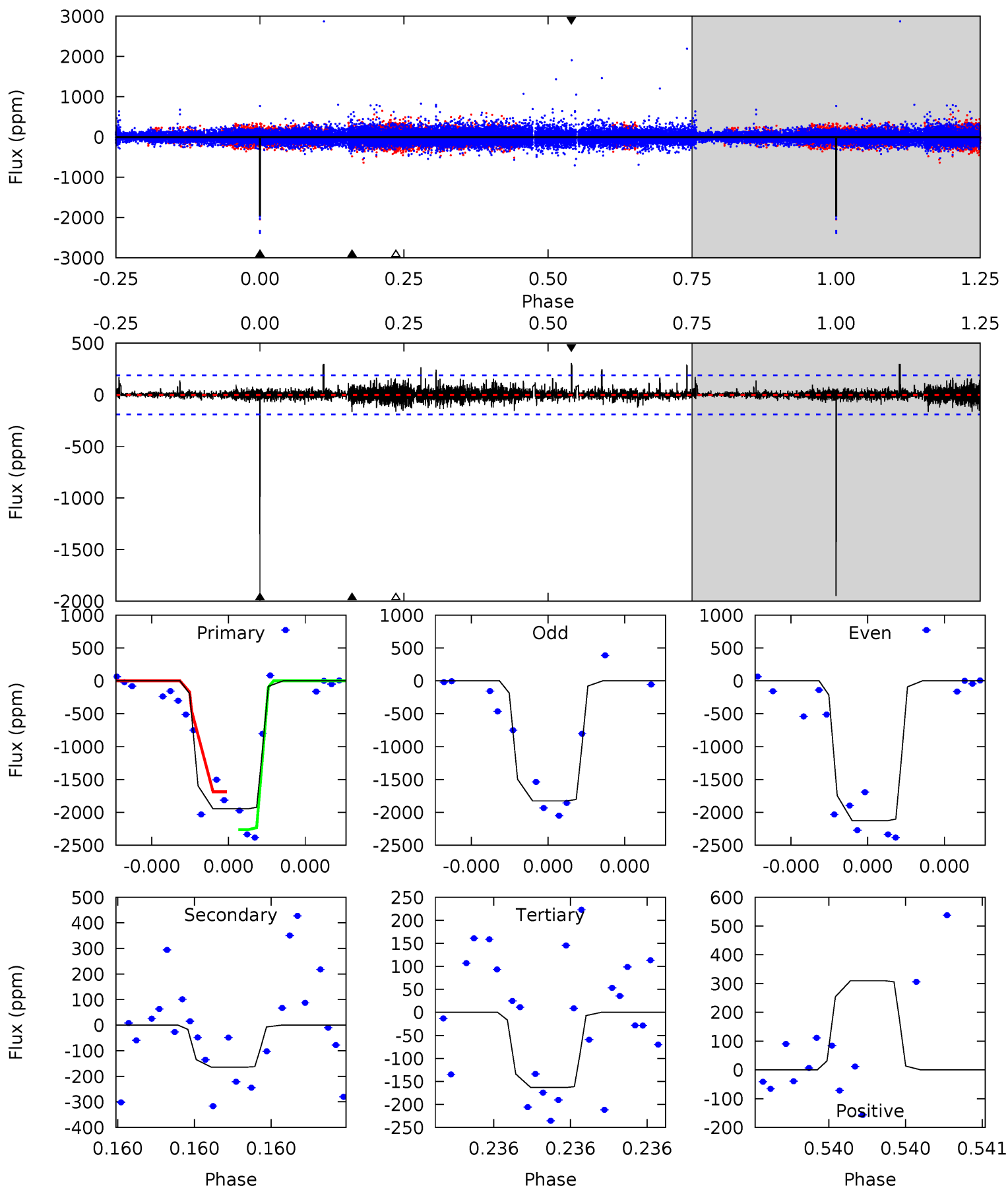
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.33	15.2	13.0	47.1	5.69	3.65	2.53	-4.69	-38.7	2.18	-31.9	0.12	1.06	0.76	0.94



Alt Model-Shift Uniqueness Test

006269092-04, P = 615.799386 Days, E = 162.702145 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
58.7	4.95	4.92	9.34	5.72	3.70	0.89	53.8	49.4	0.03	-4.39	4.28	1.12	0.14	7.14



Stellar Parameters For KIC 006269092

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4518^{+159}_{-175}	$4.625^{+0.054}_{-0.027}$	$-0.340^{+0.300}_{-0.300}$	$0.635^{+0.052}_{-0.058}$	$0.621^{+0.077}_{-0.045}$	$3.417^{+0.842}_{-0.412}$
	+4%/-4%	+1%/-1%	+88%/-88%	+8%/-9%	+12%/-7%	+25%/-12%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006269092-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1420 ± 93	$2.75^{+2.10}_{-1.68}$	201^{+8}_{-9}	4437^{+2426}_{-830}	$154724^{+850034}_{-105783}$
Alt.	-164 ± 33	$3.46^{+1.93}_{-1.83}$	200^{+9}_{-9}	2893^{+736}_{-335}	11088^{+36740}_{-6657}

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

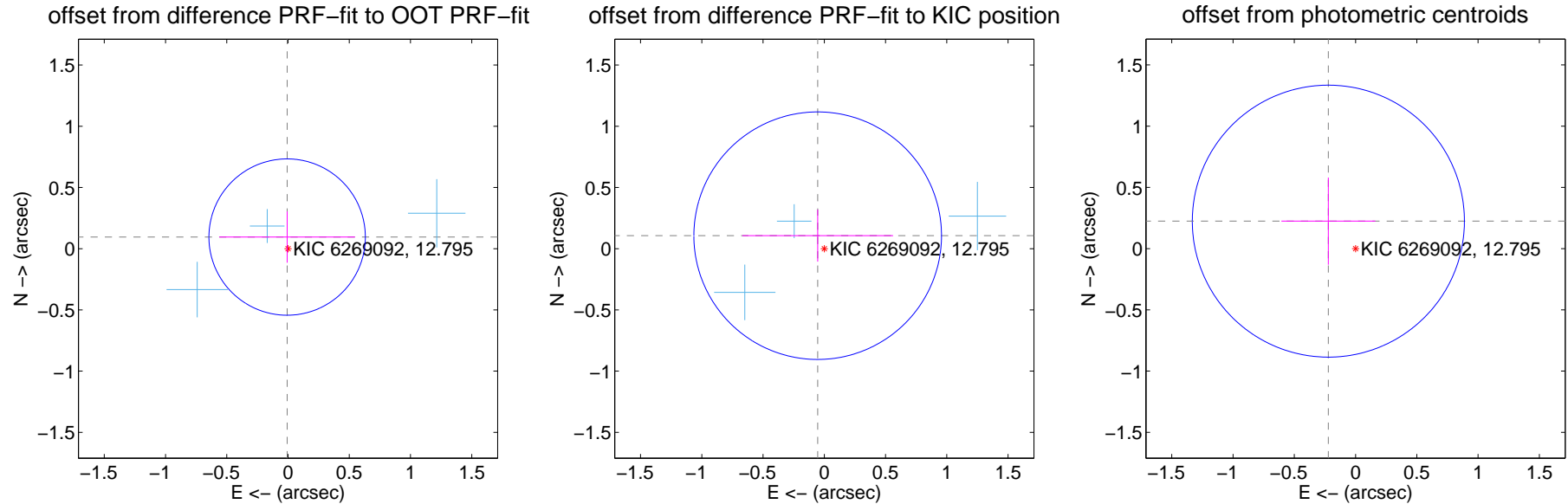
DV Centroid Data

Supplemental centroid analysis for 006269092-04. Kepler magnitude: 12.79. Transit SNR 7.50

There are 3 quarters with good PRF difference image offsets

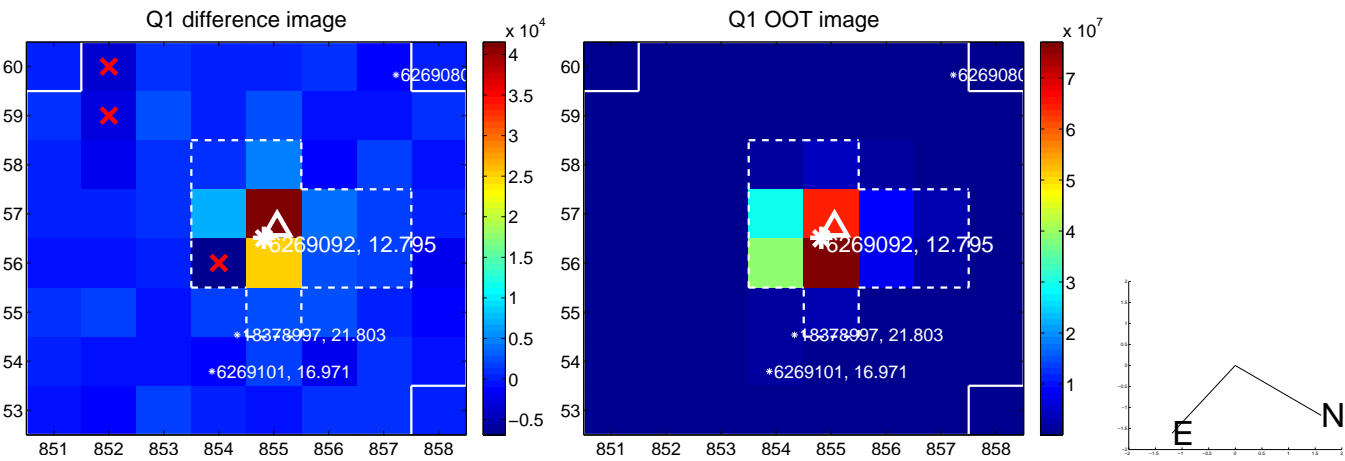
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.095 ± 0.213	0.45	0.007 ± 0.554	0.095 ± 0.209
PRF-fit source offset from KIC position	0.119 ± 0.337	0.35	0.054 ± 0.615	0.106 ± 0.212
photometric centroid source offset	0.32 ± 0.37	0.85	0.22 ± 0.38	0.22 ± 0.36

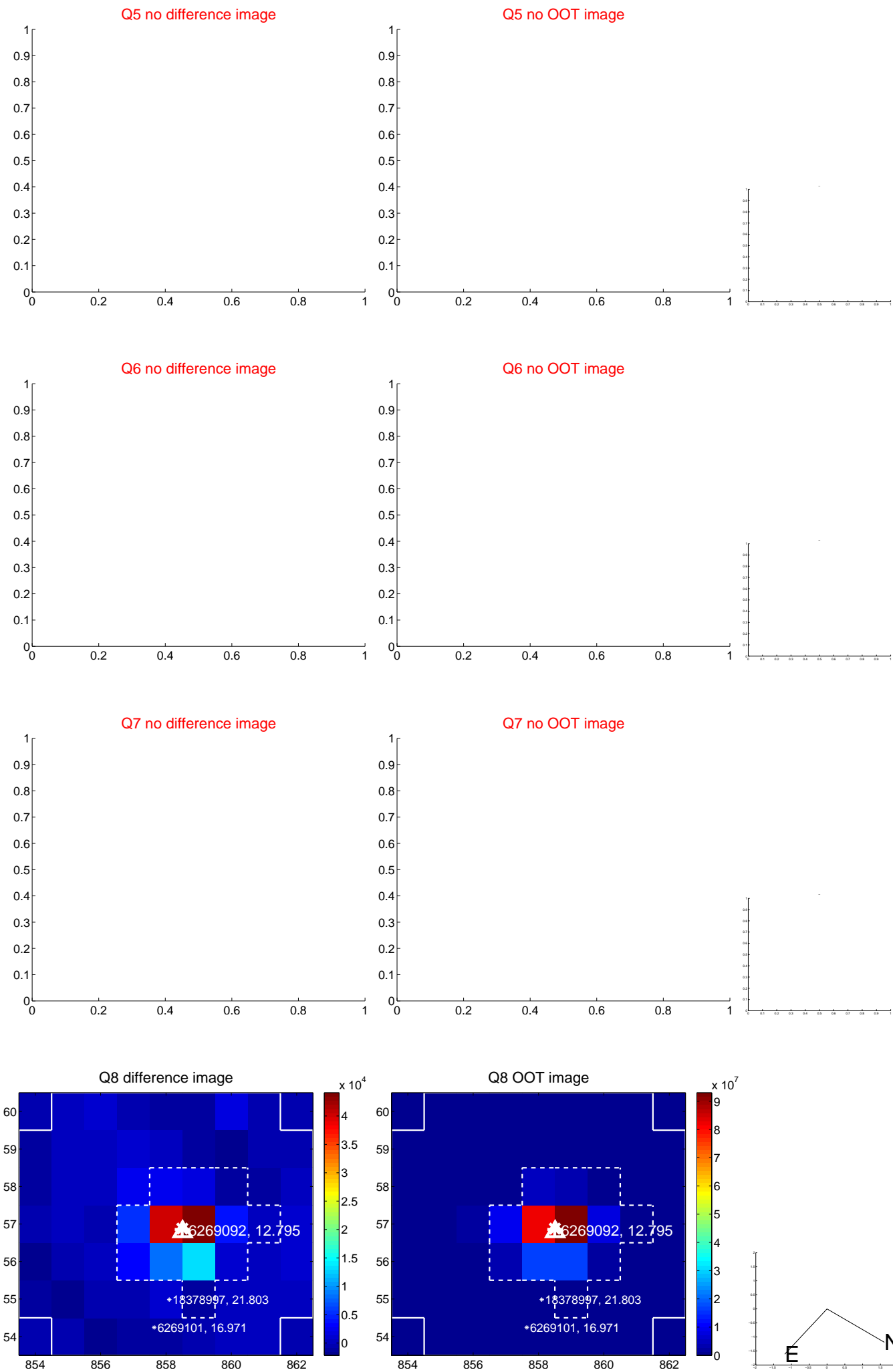


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



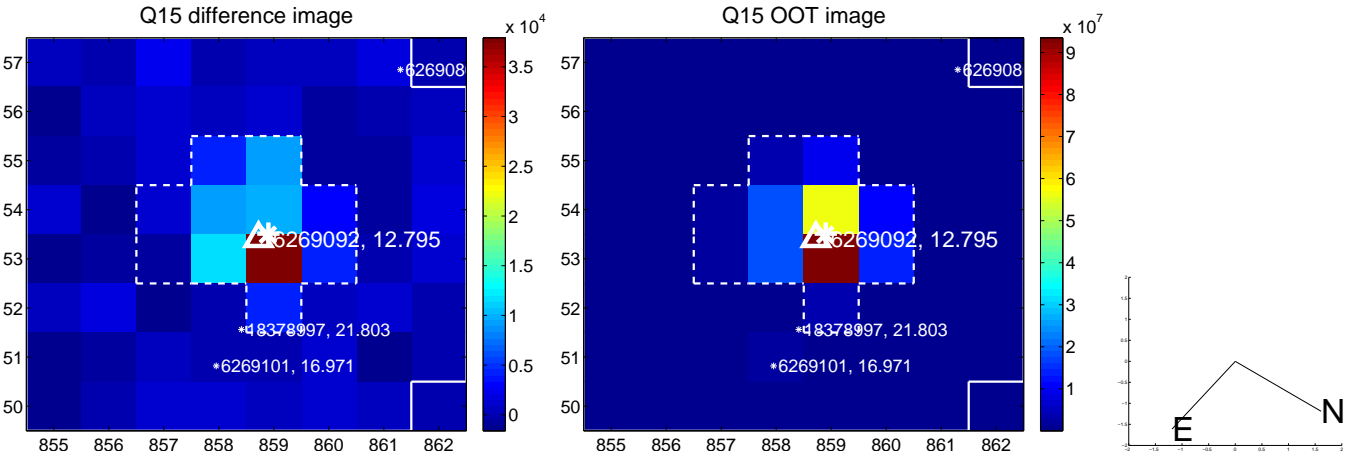
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



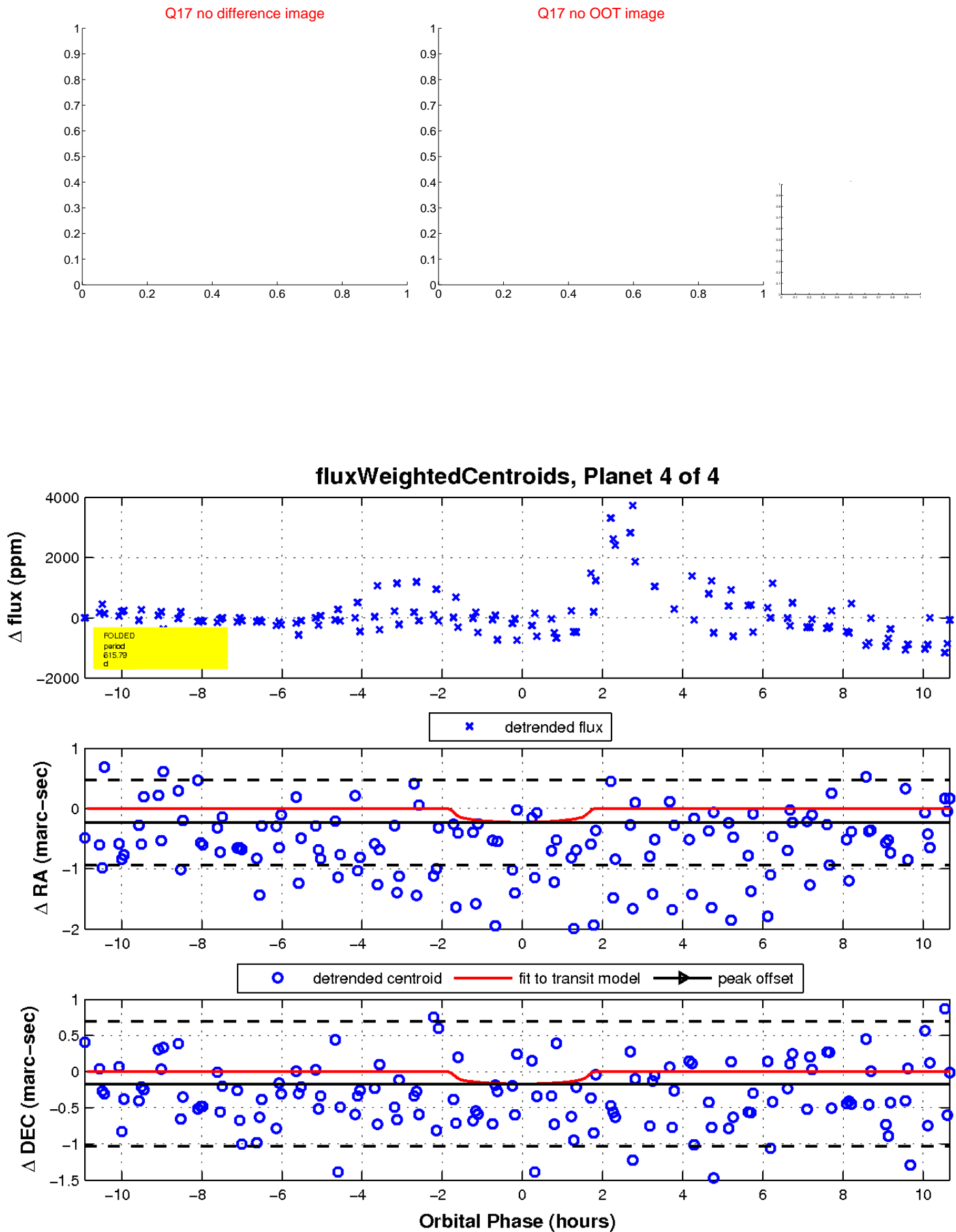
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

