

KIC 008263926

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})
008263926-01	OBS	No	359.977969	373.740808	1076.7	25.977	11.1	10.3	2.01	5804	12.79	3.84
008263926-02	OBS	No	0.515520	131.603129	5.9	3.263	8.1	4.1	2.01	5804	0.56	23762.68
008263926-03	OBS	No	59.370655	157.031398	561.0	2.266	7.3	7.5	2.01	5804	5.27	42.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008263926-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—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_DIFFS
008263926-02	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_RESOLVED_OFFSET
008263926-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET

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

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

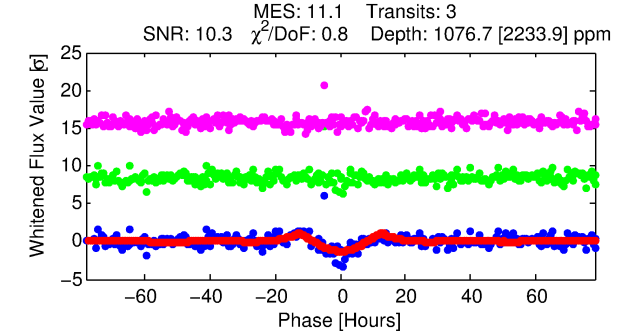
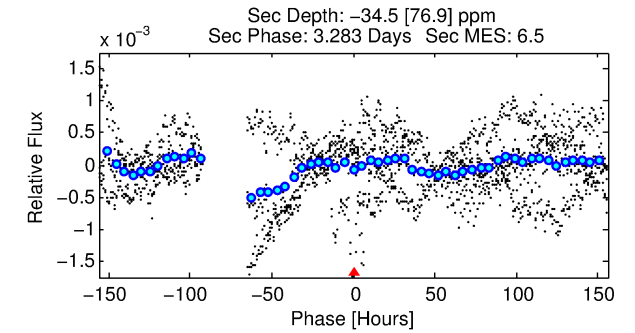
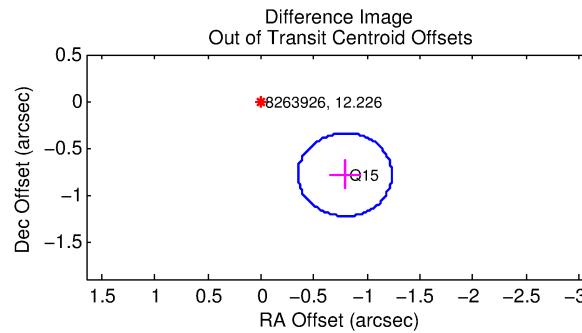
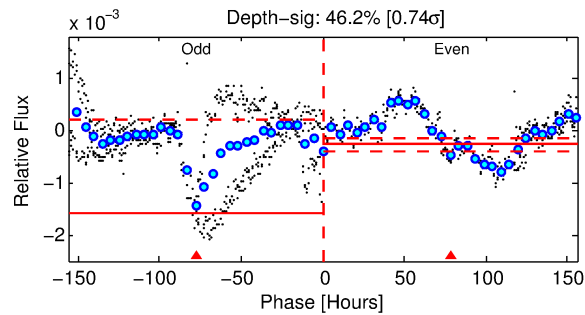
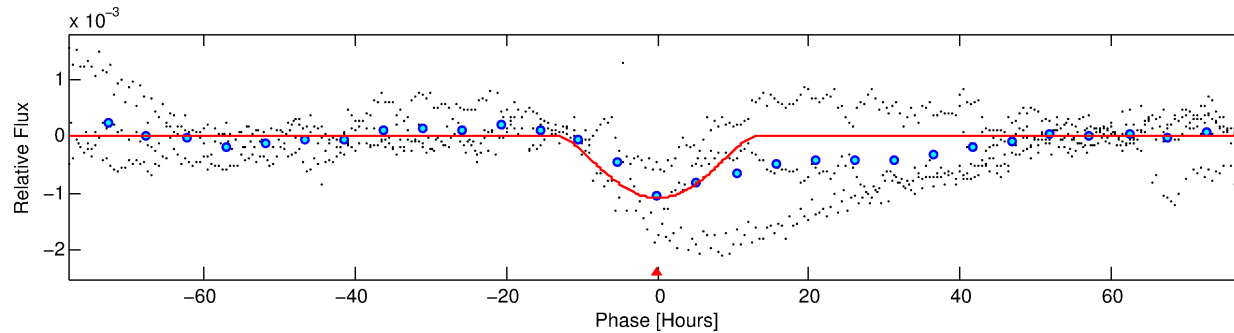
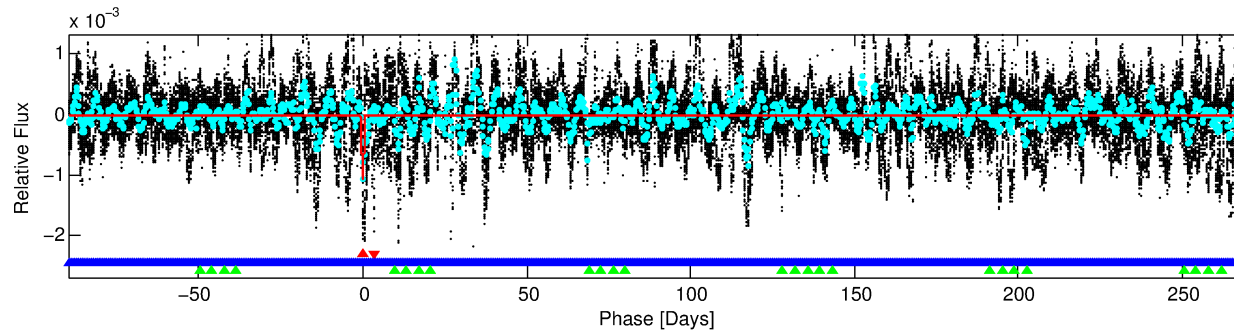
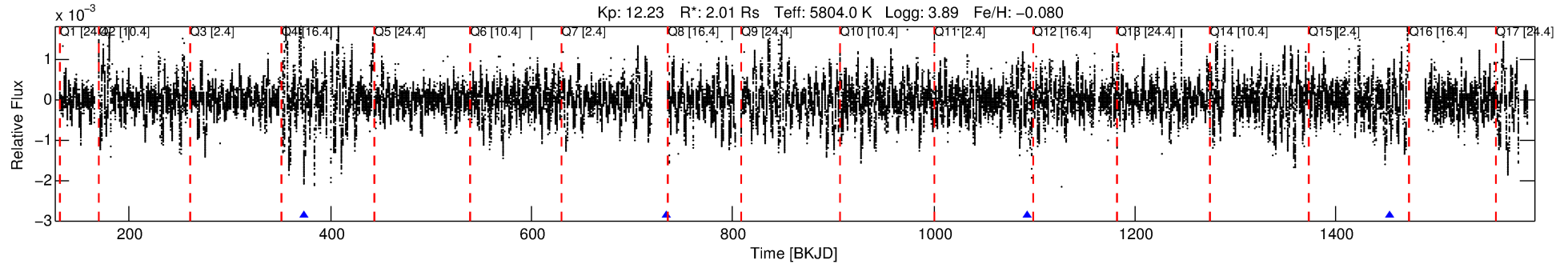
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008263926-01

No Significant Match Found

DV One-Page Summary

KIC: 8263926 Candidate: 1 of 3 Period: 359.978 d



DV Fit Results:

Period = 359.97797 [0.01203] d
Epoch = 373.7408 [0.0208] BKJD
Rp/R* = 0.0582 [0.0685]
a/R* = 36.67 [9.86]
b = 1.00 [0.18]
Seff = 3.84 [3.24]
Teff = 357 [75] K
Rp = 12.79 [16.27] Re
a = 1.0359 [0.5227] AU
Ag = N/A
Teffp = N/A

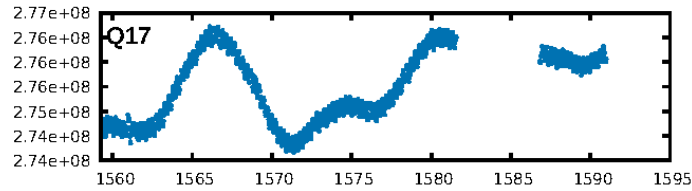
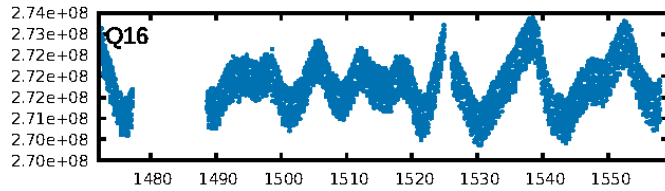
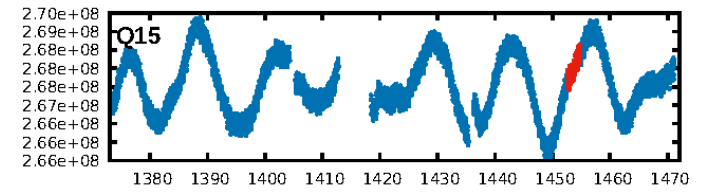
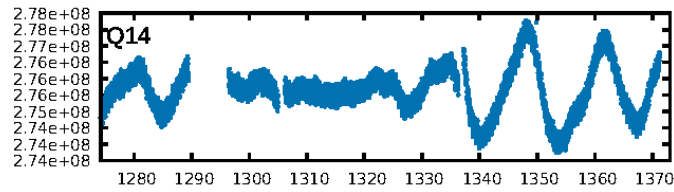
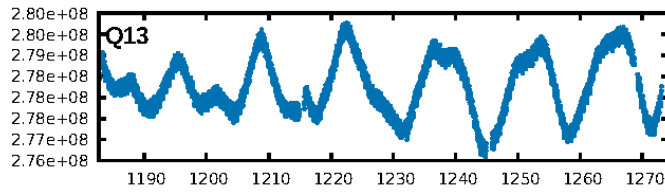
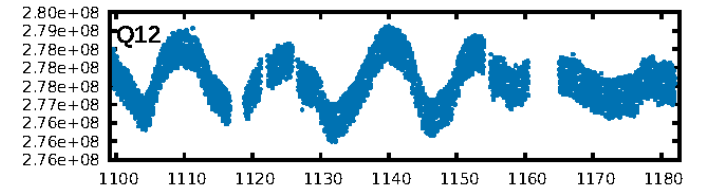
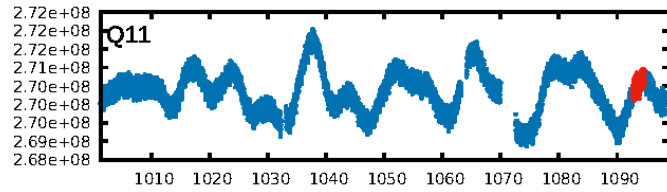
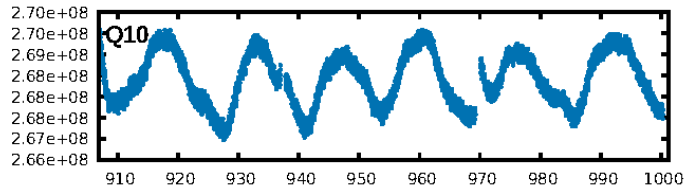
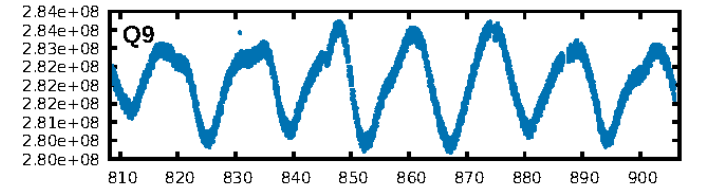
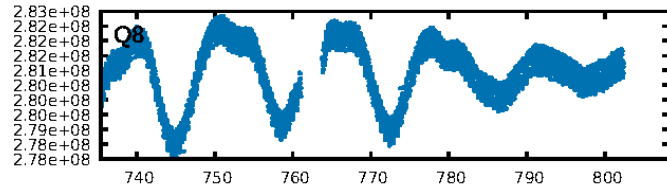
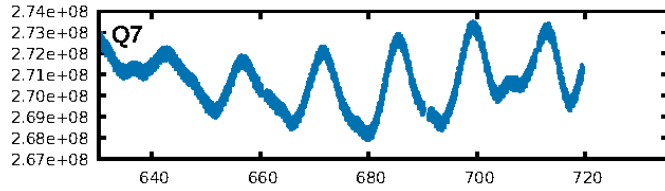
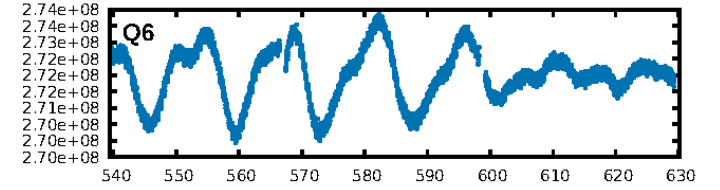
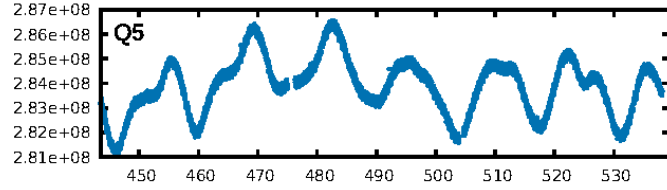
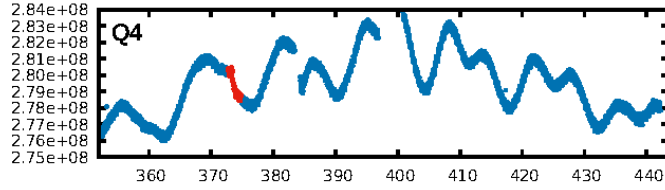
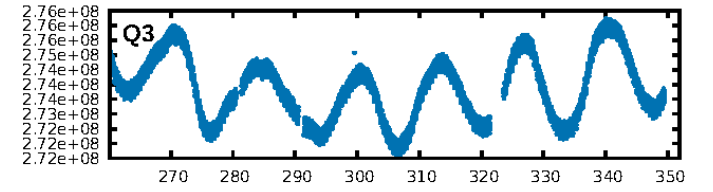
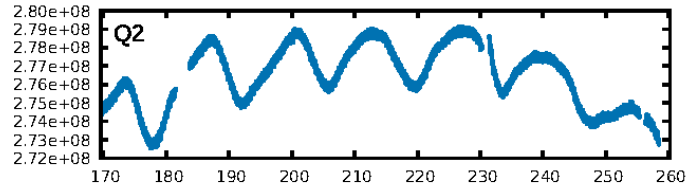
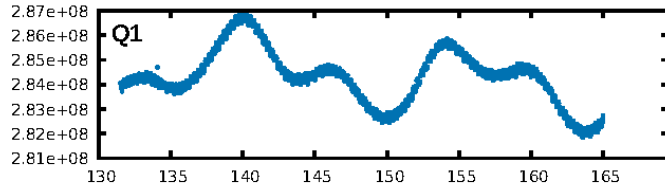
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [276.67 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 6.94e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 16.44
Centroid-sig: 0.2%
Centroid-so: 1.449 arcsec [1.85 σ]
OotOffset-rm: 1.115 arcsec [7.54 σ]
KicOffset-rm: 0.789 arcsec [5.27 σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.00 [0/1]

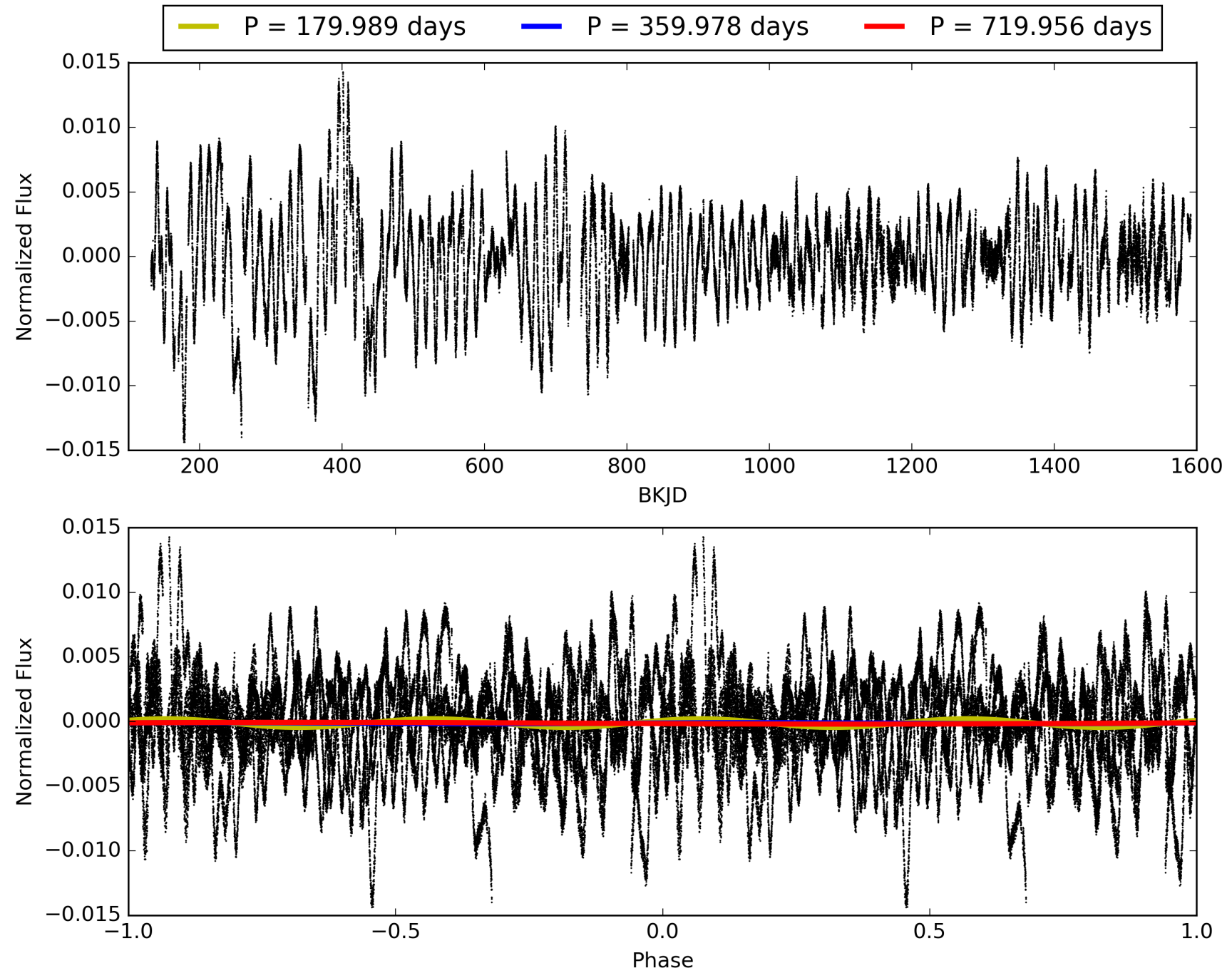
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:12:12 Z

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

TCE 008263926-01, PDC Light Curves

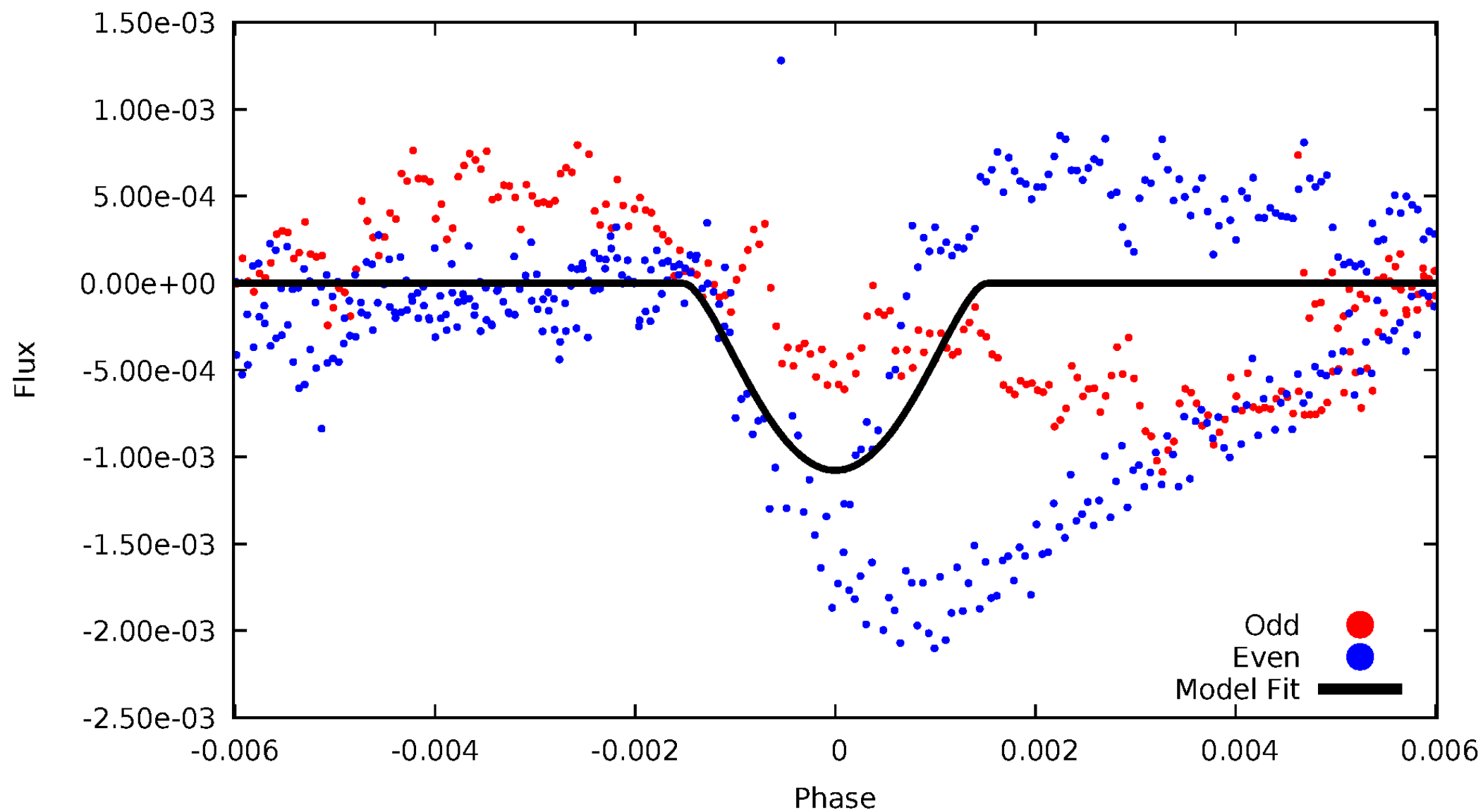


TCE 008263926-01



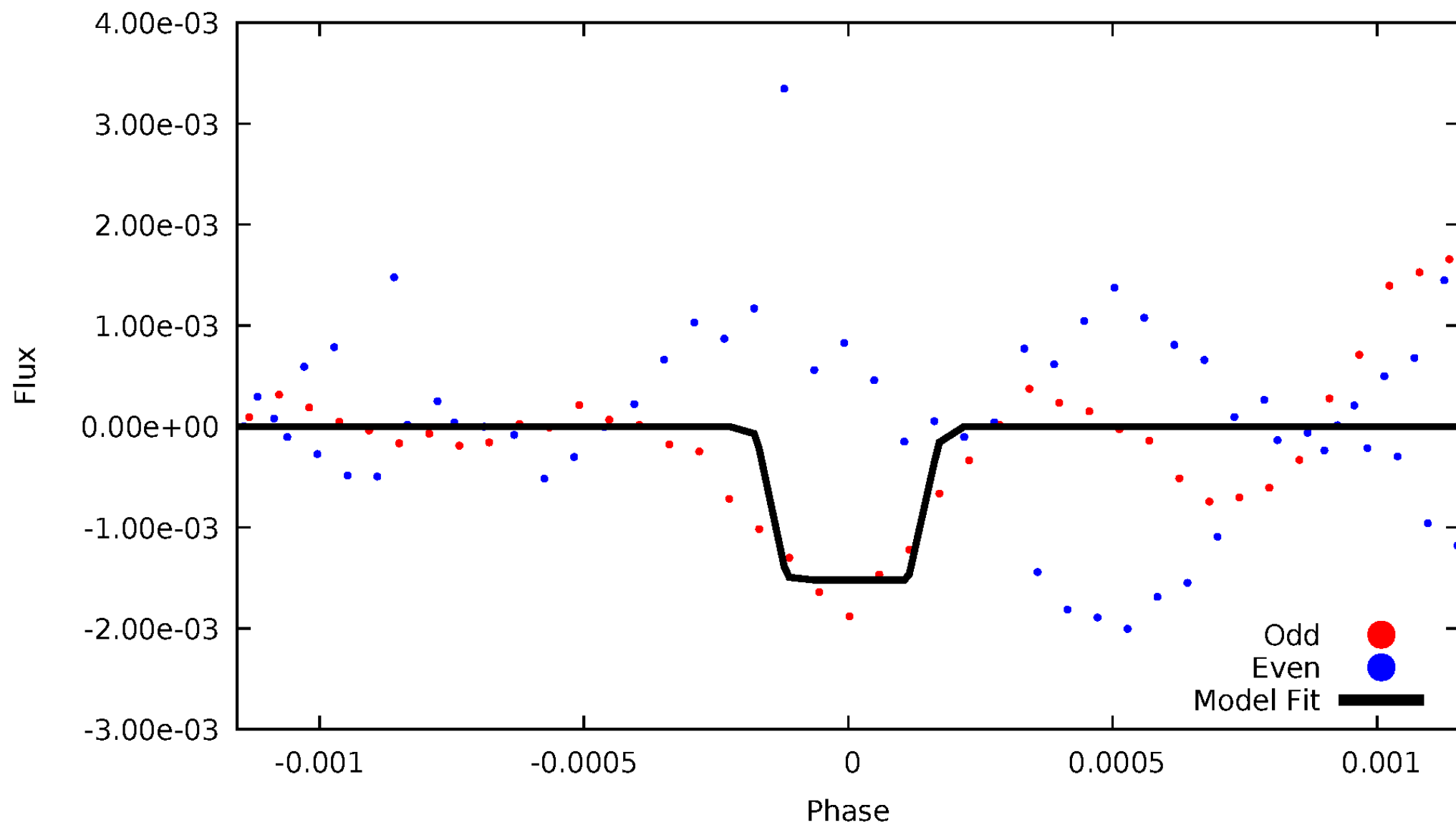
DV Odd/Even

TCE 008263926-01



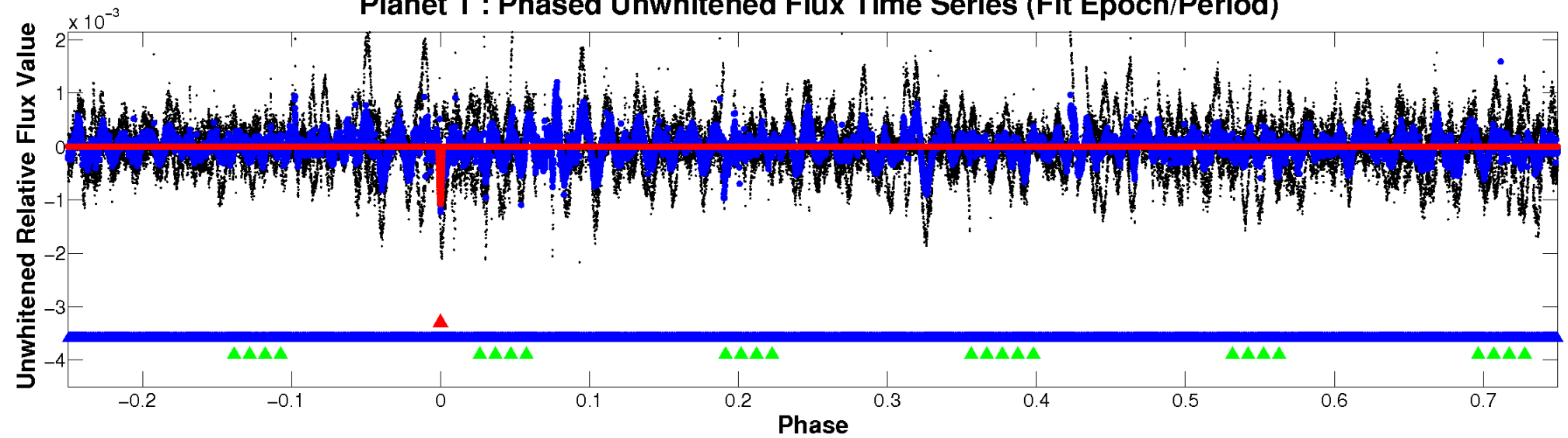
ALT Odd/Even

TCE 008263926-01

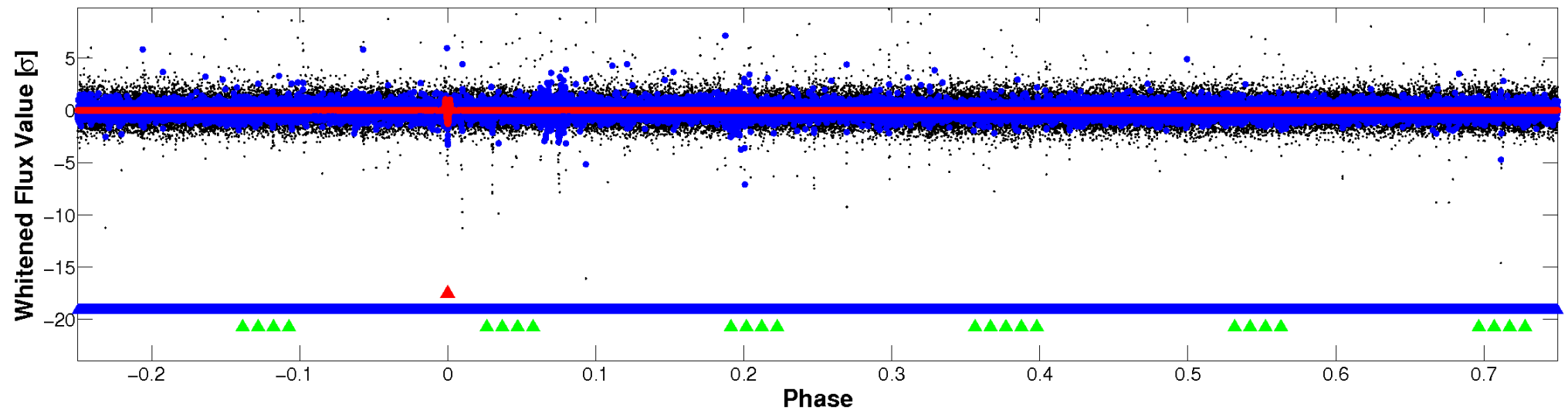


Non-Whitened Vs. Whitened Light Curve

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

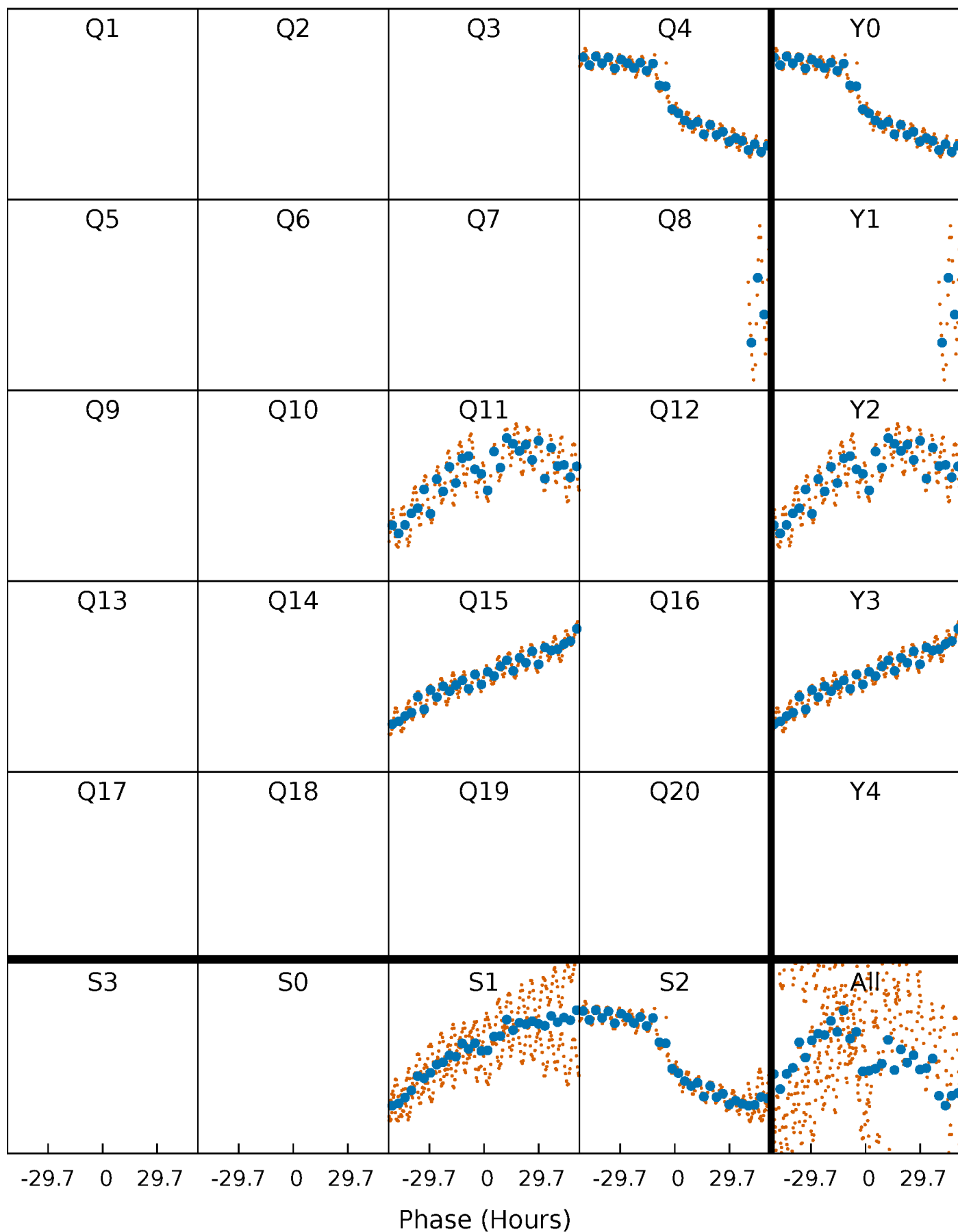


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



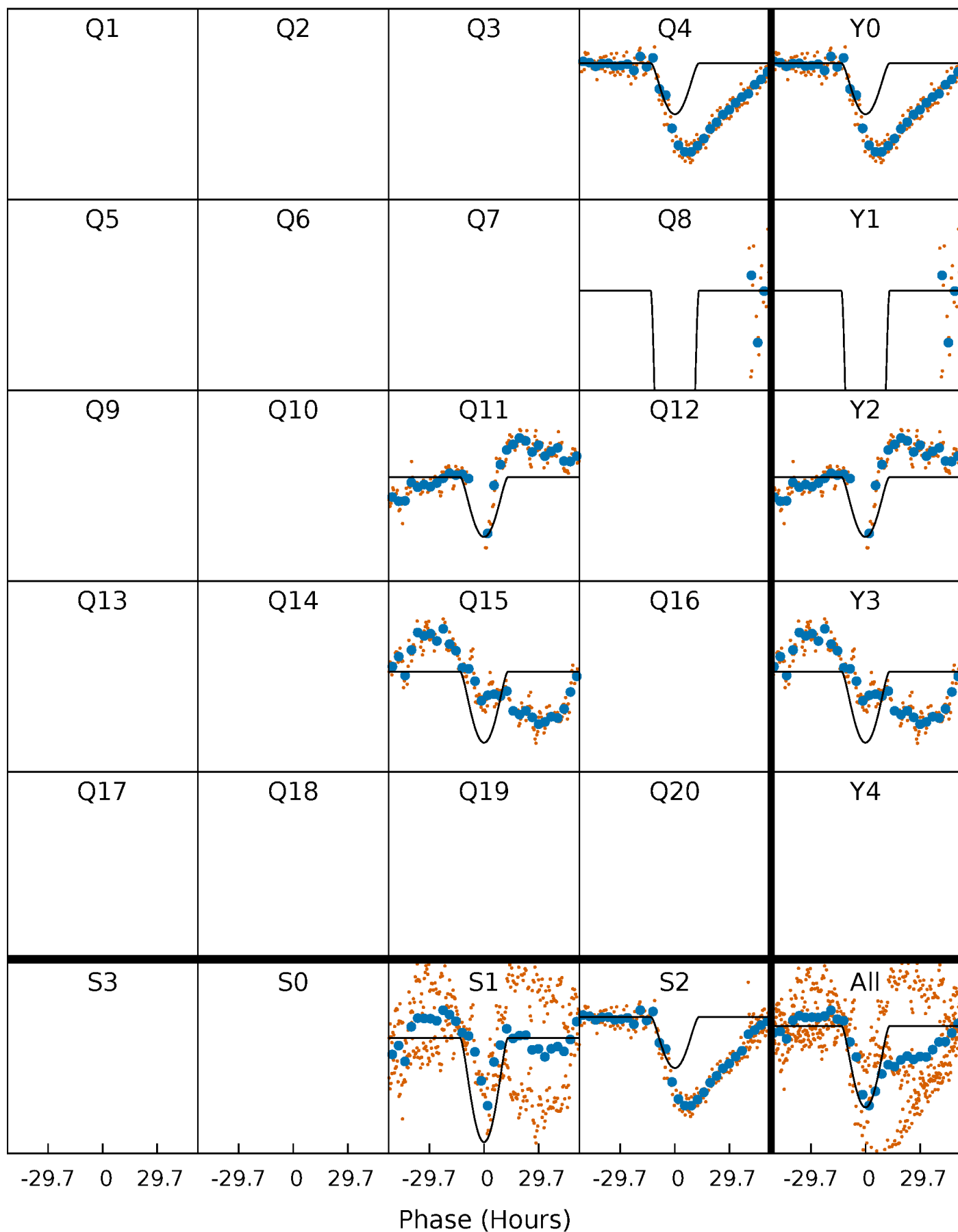
PDC Quarter-Phased Transit Curves

TCE 008263926-01 P=359.977969 Days $T_0=373.740808$ (BKJD)



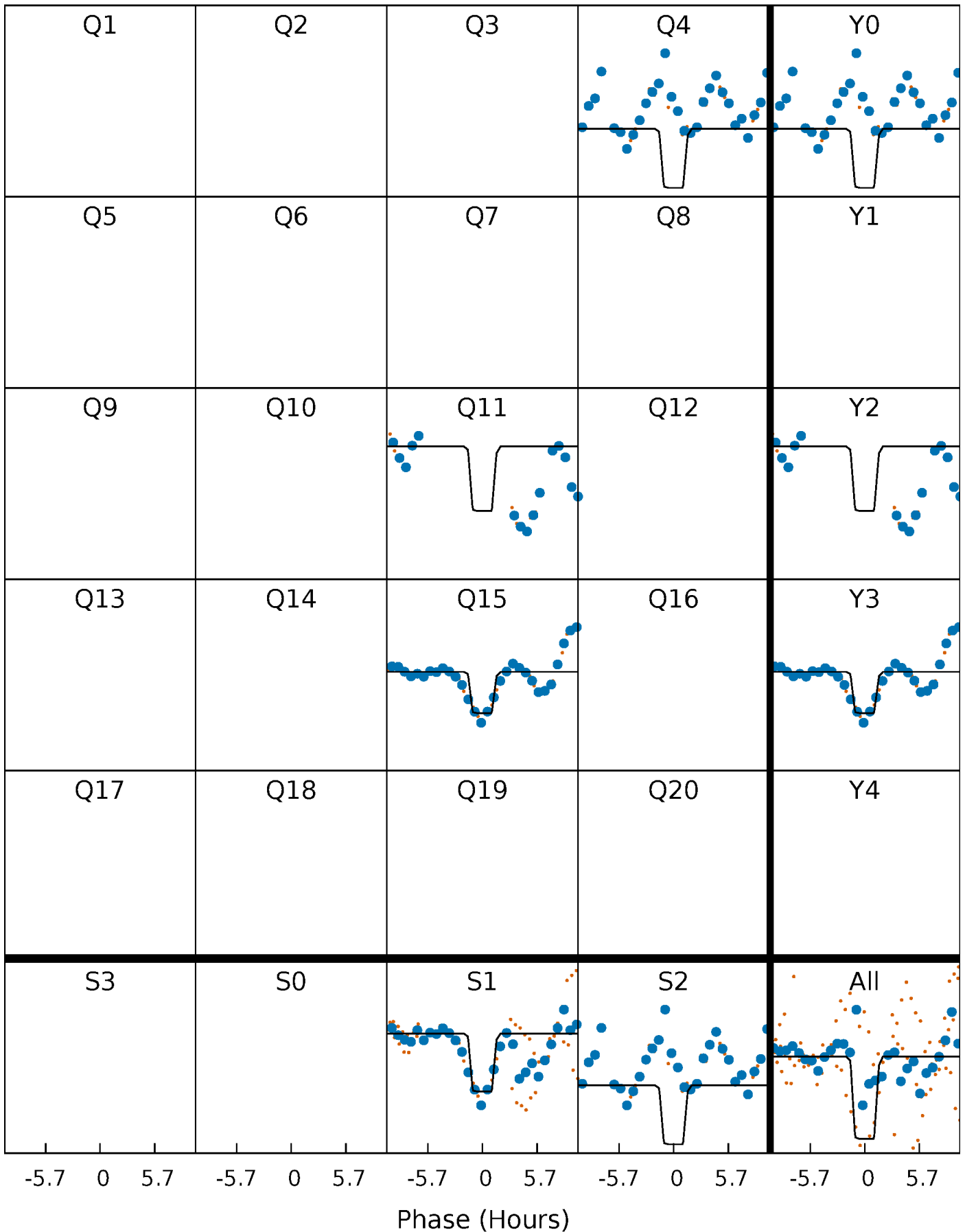
DV Quarter-Phased Transit Curves

TCE 008263926-01 P=359.977969 Days $T_0=373.740808$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

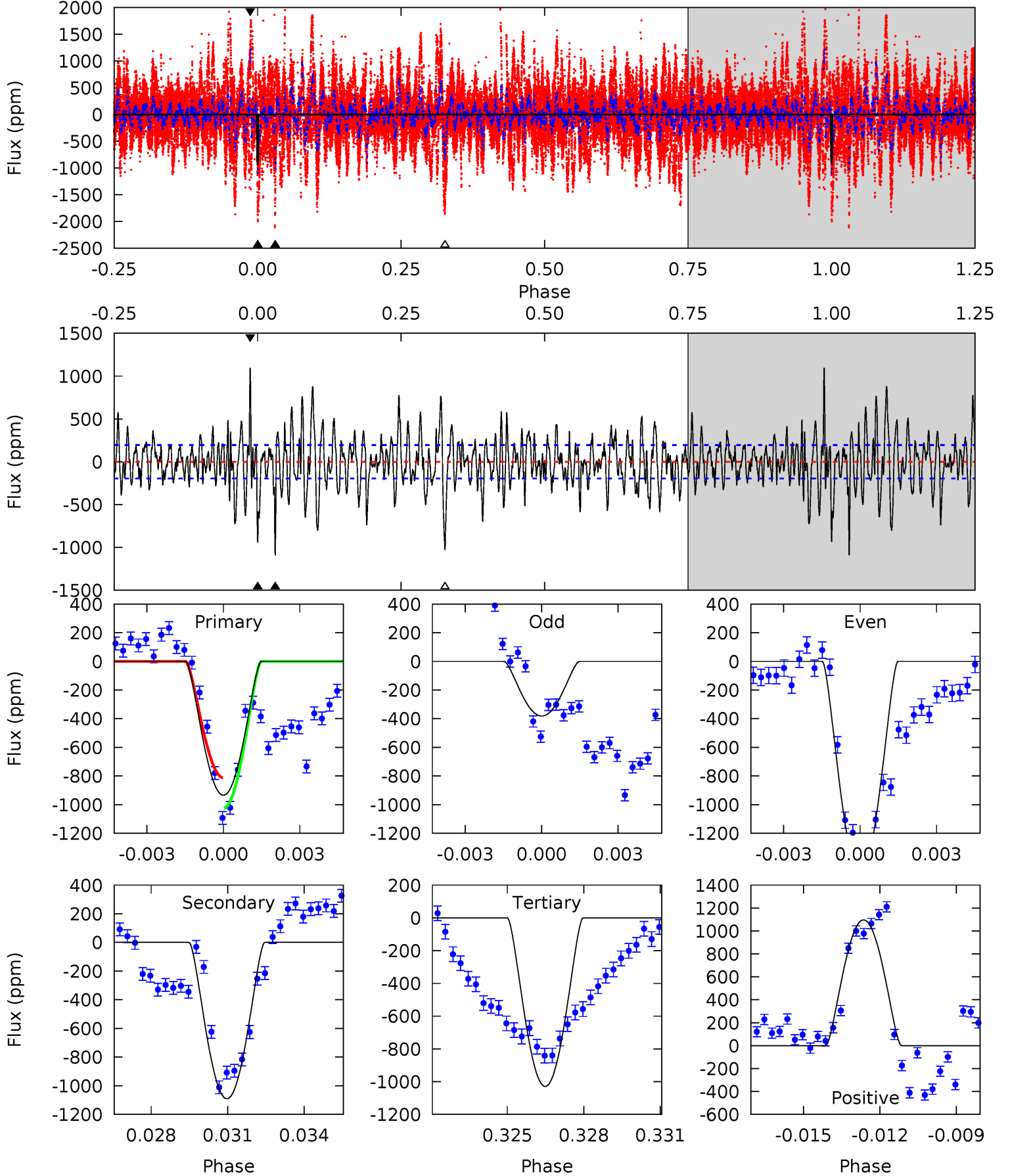
TCE 008263926-01 P=360.005271 Days $T_0=373.589228$ (BKJD)



DV Model-Shift Uniqueness Test

008263926-01, P = 359.977969 Days, E = 13.762839 Days

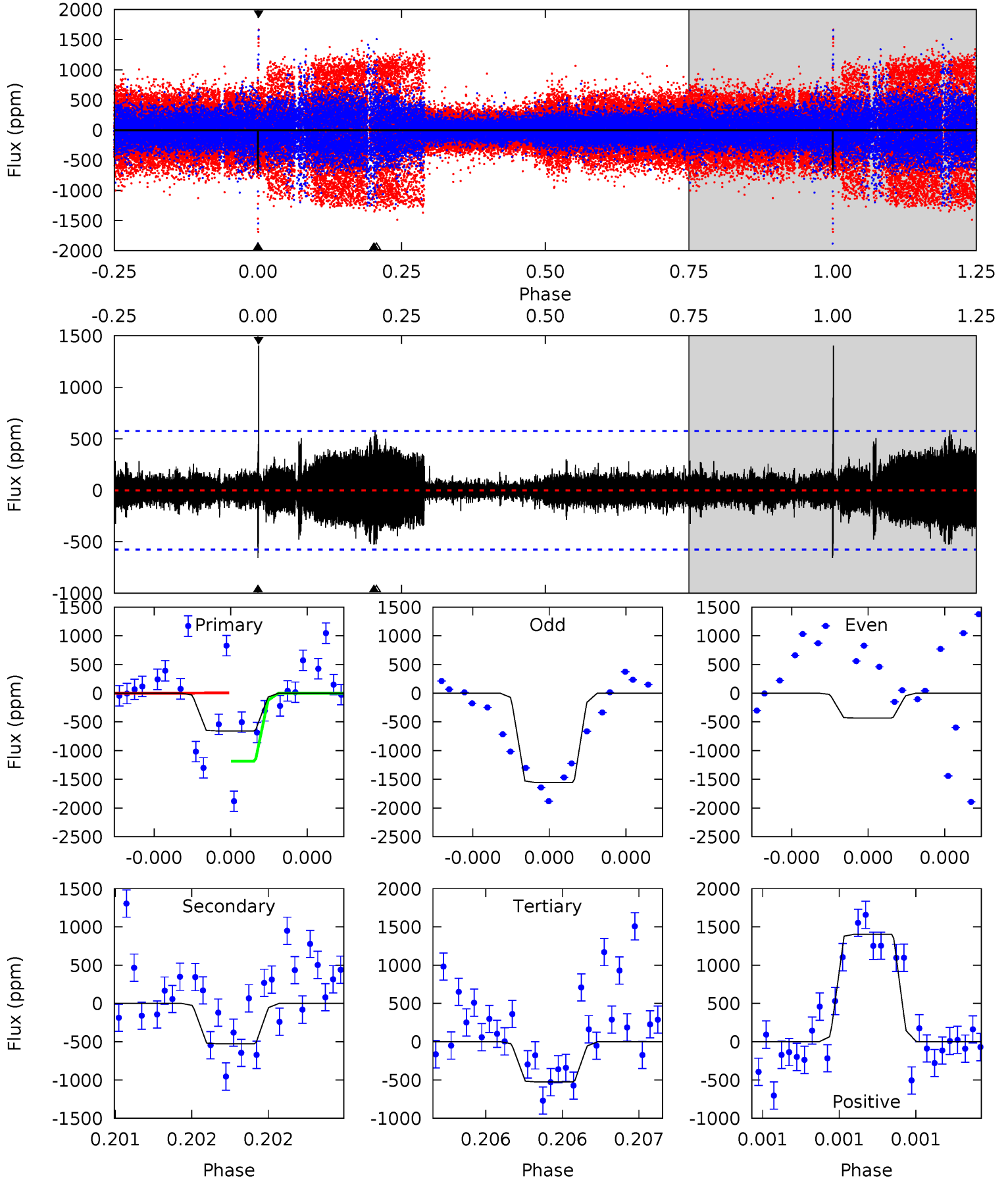
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.3	29.5	27.8	29.6	5.25	2.96	6.74	-2.55	-4.37	1.66	-0.16	14.5	1.43	0.50	2.90



Alt Model-Shift Uniqueness Test

008263926-01, P = 360.005271 Days, E = 13.583957 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.43	5.15	5.13	13.7	5.64	3.58	1.05	1.30	-7.30	0.02	-8.58	5.38	1.00	0.68	5.39



Stellar Parameters For KIC 008263926

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5804^{+158}_{-158}	$3.889^{+0.504}_{-0.126}$	$-0.080^{+0.300}_{-0.300}$	$2.012^{+0.419}_{-0.978}$	$1.144^{+0.140}_{-0.240}$	$0.198^{+1.031}_{-0.072}$
	+3%/-3%	+13%/-3%	+375%/-375%	+21%/-49%	+12%/-21%	+521%/-36%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008263926-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1091 ± 37	$14.56^{+14.63}_{-9.33}$	486^{+36}_{-62}	4122^{+2327}_{-762}	3016^{+20012}_{-2255}
Alt.	-527 ± 102	$12.19^{+12.39}_{-8.20}$	488^{+37}_{-58}	3892^{+2186}_{-740}	2077^{+16979}_{-1576}

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

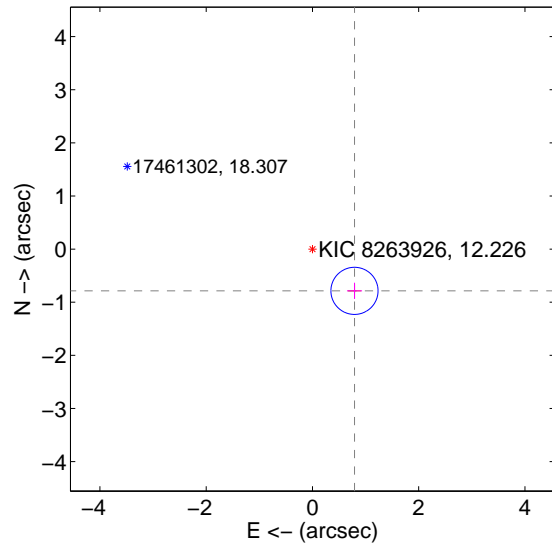
Supplemental centroid analysis for 008263926-01. Kepler magnitude: 12.23. Transit SNR 10.34

There are 0 quarters with good PRF difference image offsets

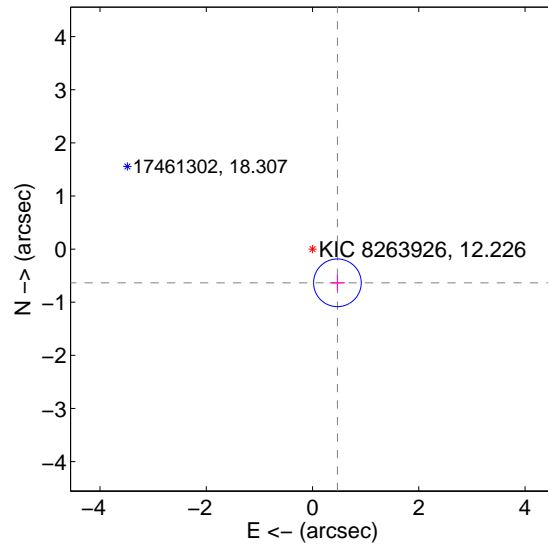
The direct PRF centroid is offset from the target star catalog position by about 0.36 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.115 ± 0.148	7.54	-0.791 ± 0.142	-0.786 ± 0.153
PRF-fit source offset from KIC position	0.789 ± 0.150	5.27	-0.468 ± 0.142	-0.634 ± 0.153
photometric centroid source offset	1.45 ± 0.78	1.85	0.60 ± 0.81	1.32 ± 0.78

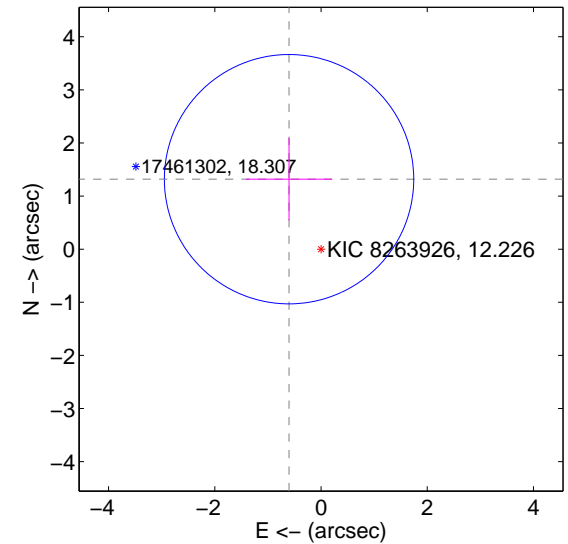
offset from difference PRF-fit to OOT PRF-fit



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.



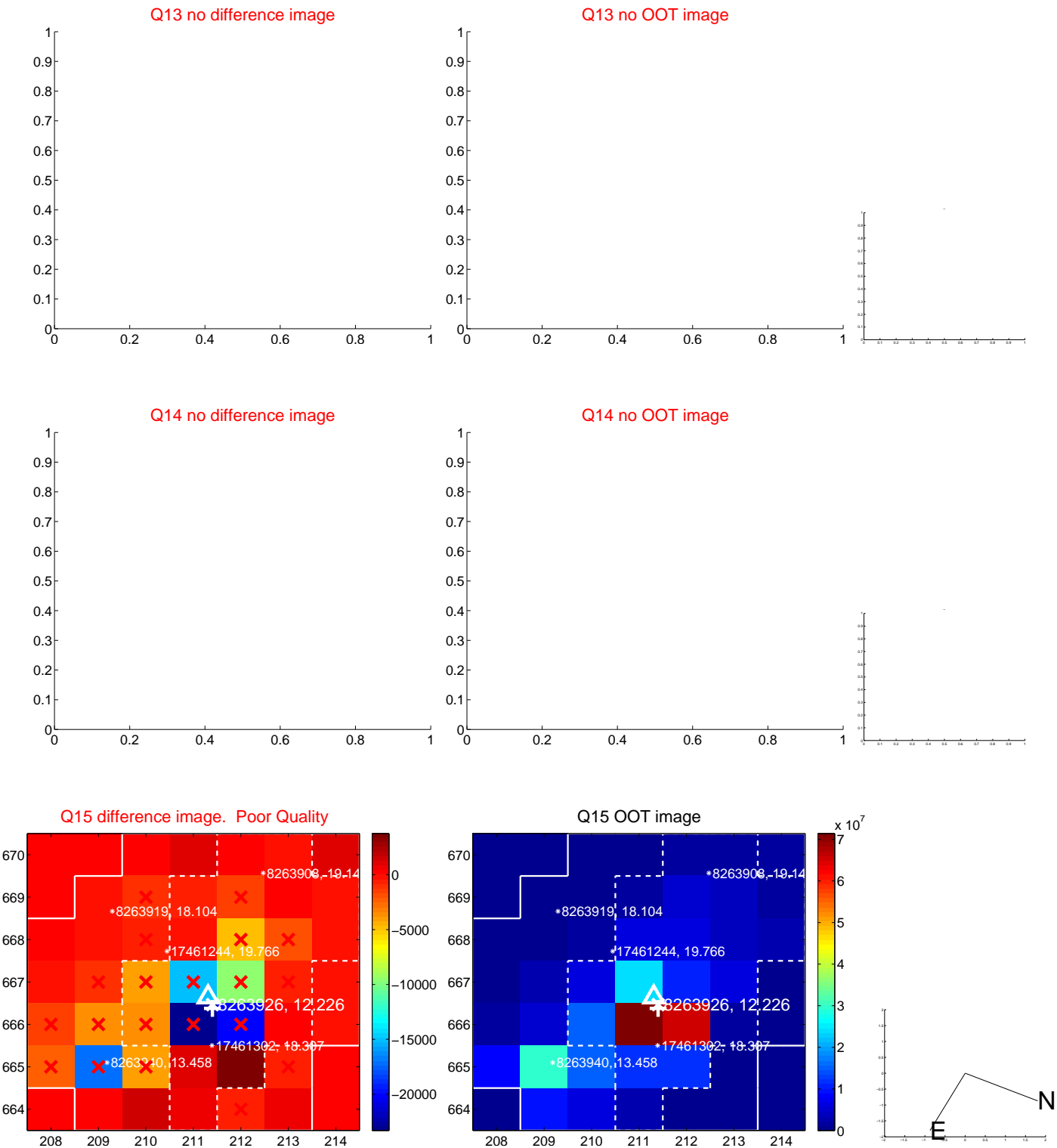
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



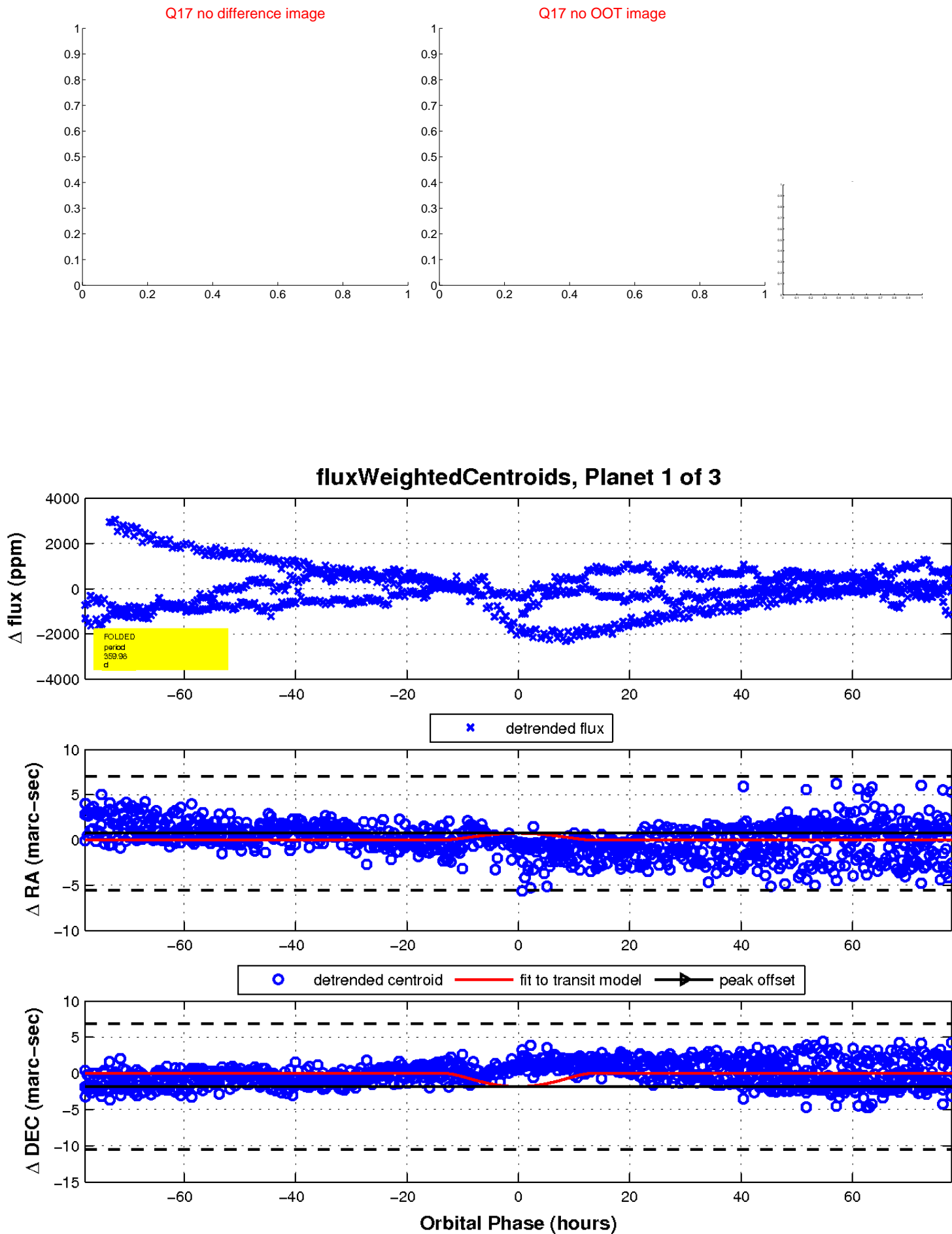
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

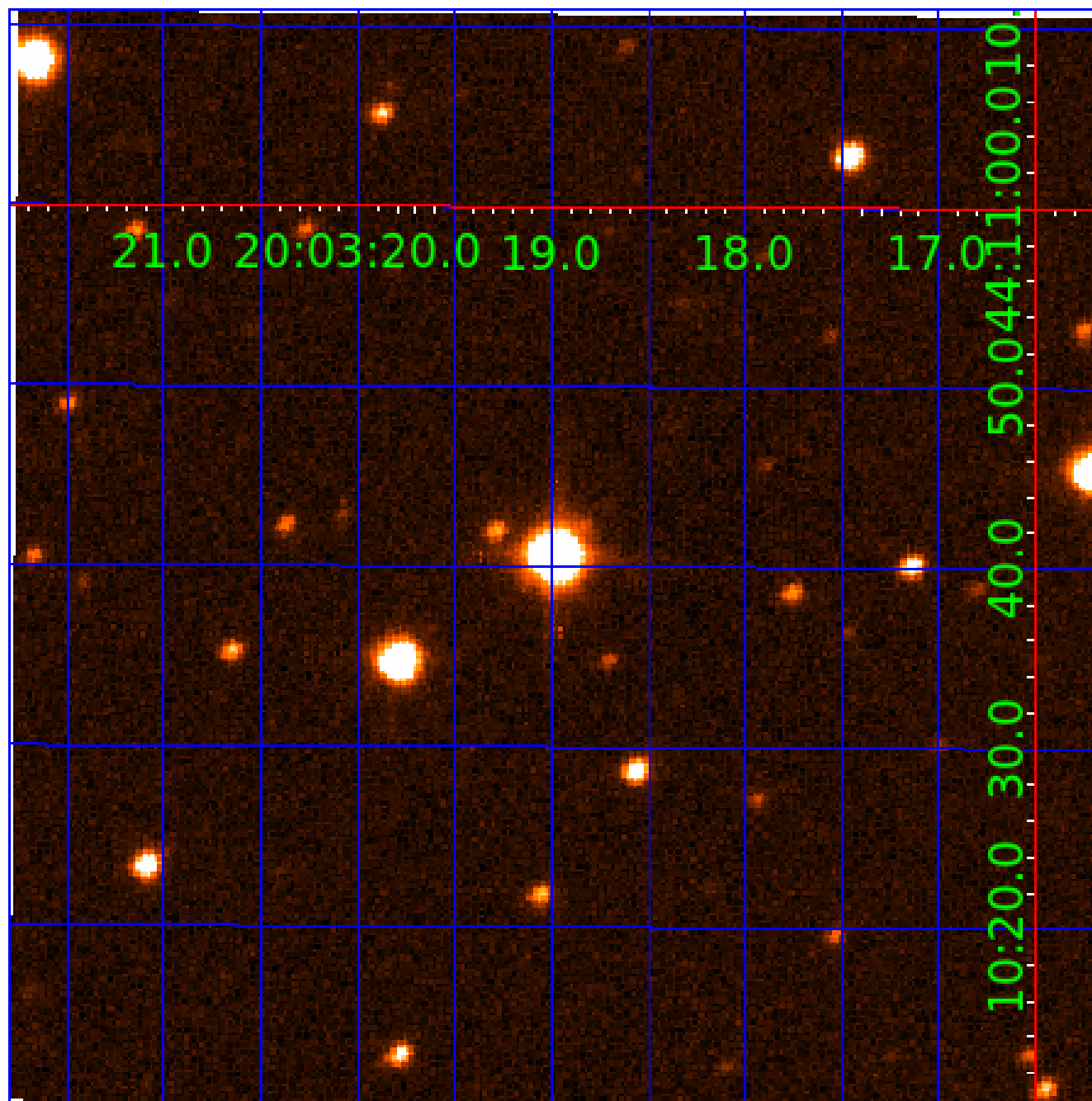


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008263926

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})
008263926-01	OBS	No	359.977969	373.740808	1076.7	25.977	11.1	10.3	2.01	5804	12.79	3.84
008263926-02	OBS	No	0.515520	131.603129	5.9	3.263	8.1	4.1	2.01	5804	0.56	23762.68
008263926-03	OBS	No	59.370655	157.031398	561.0	2.266	7.3	7.5	2.01	5804	5.27	42.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008263926-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—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_DIFFS
008263926-02	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_RESOLVED_OFFSET
008263926-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET

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

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

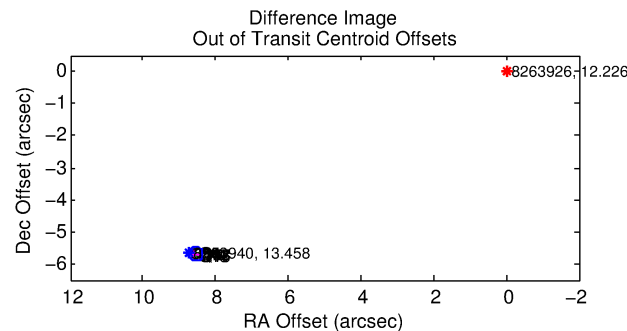
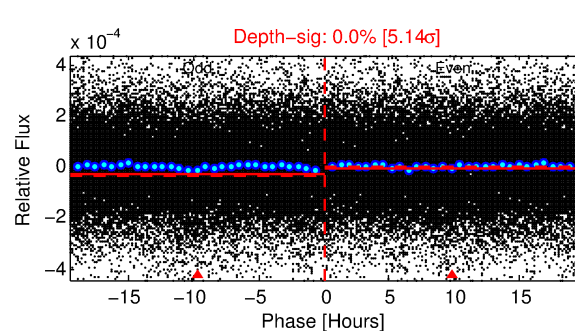
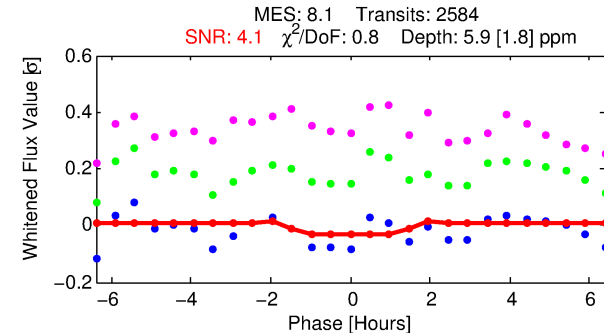
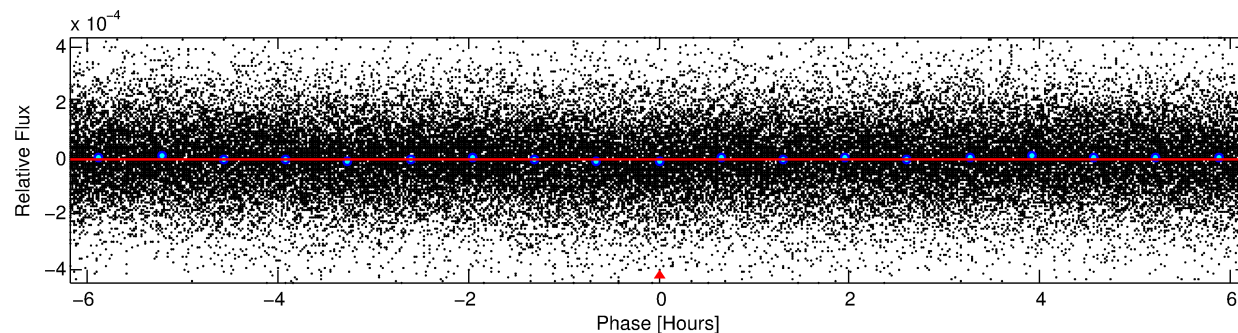
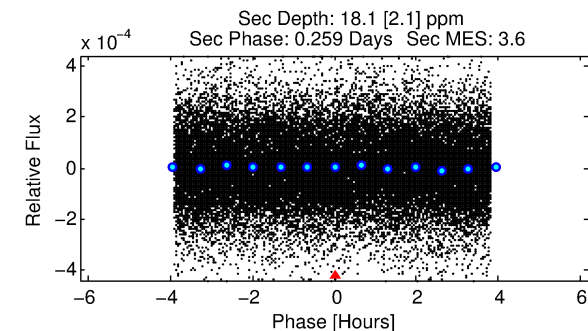
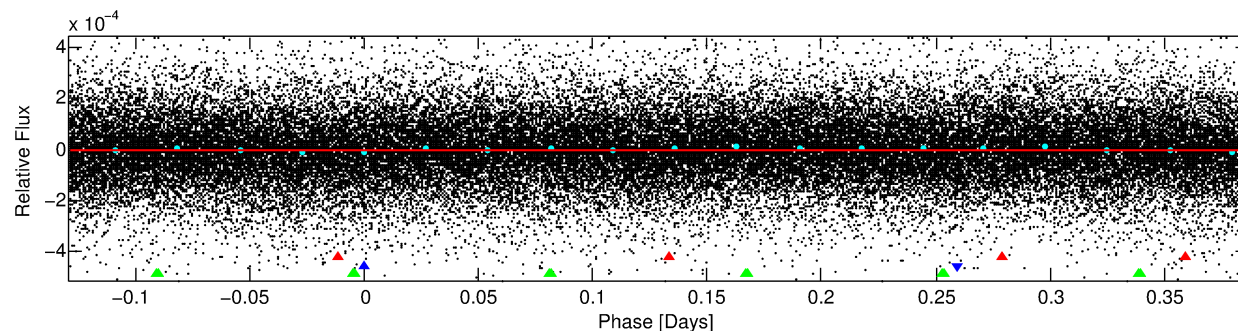
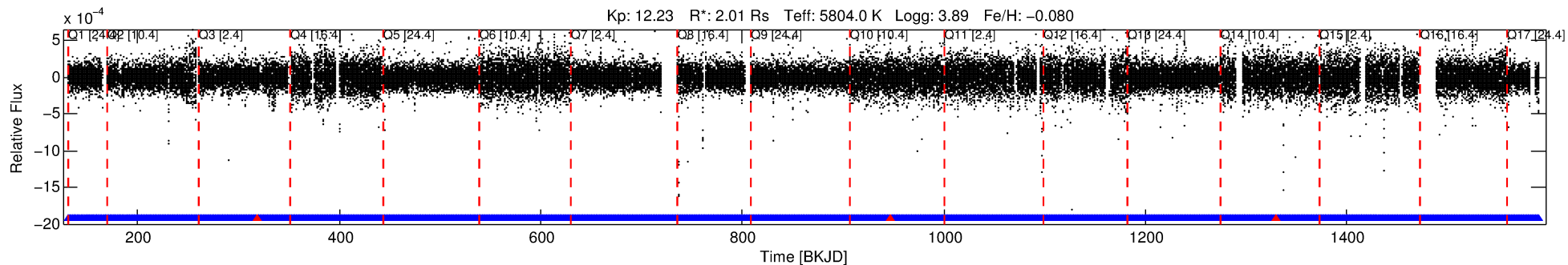
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008263926-02

No Significant Match Found

DV One-Page Summary

KIC: 8263926 Candidate: 2 of 3 Period: 0.516 d



DV Fit Results:

Period = 0.51552 [0.00002] d
Epoch = 131.6031 [0.0066] BKJD
Rp/R* = 0.0025 [0.0014]
a/R* = 1.12 [0.56]
b = 0.85 [0.85]
Seff = 23762.68 [20099.24]
Teff = 3166 [669] K
Rp = 0.56 [0.41] Re
a = 0.0132 [0.0066] AU
Ag = 5.55 [7.65] [0.60σ]
Teffp = 7513 [2063] K [2.00σ]

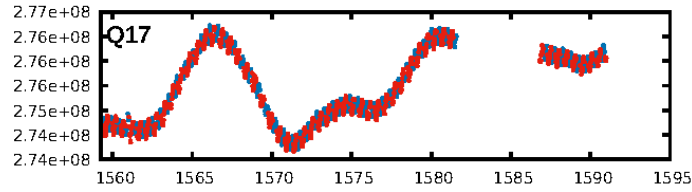
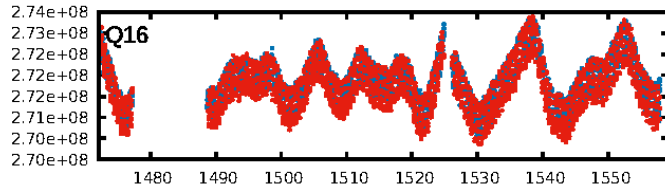
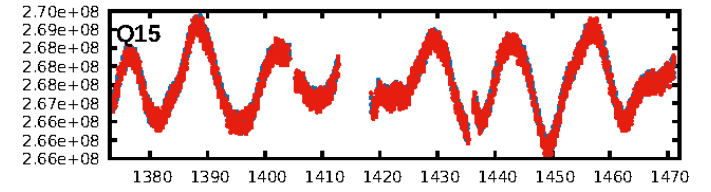
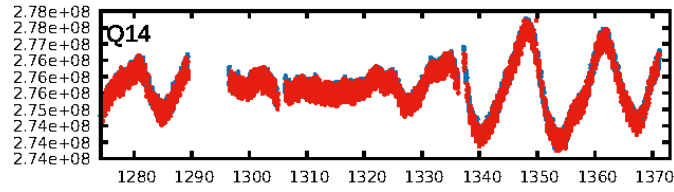
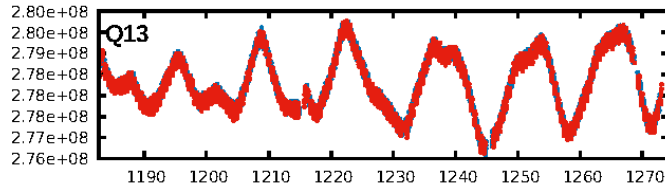
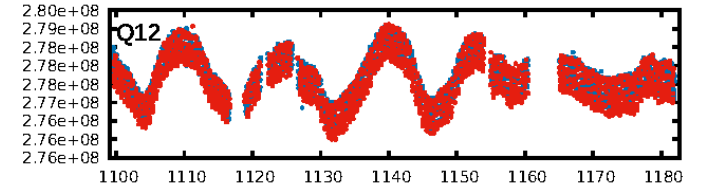
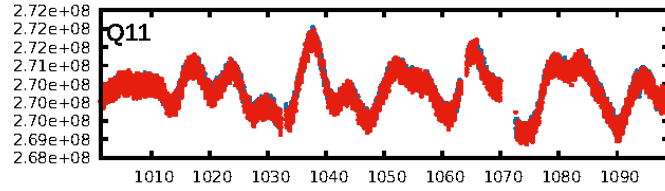
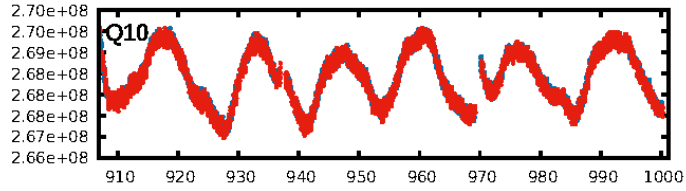
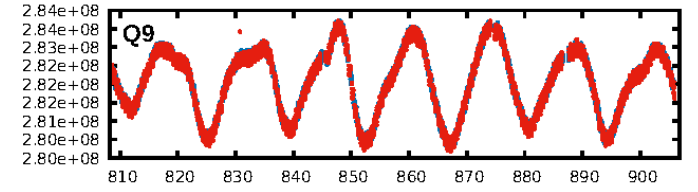
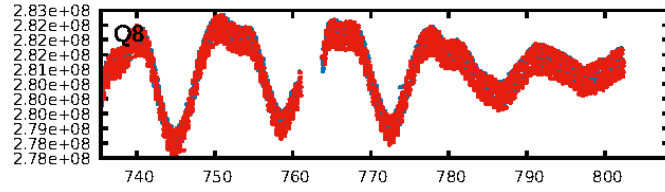
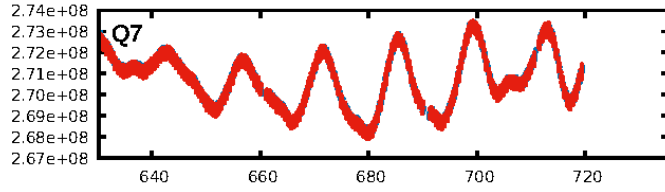
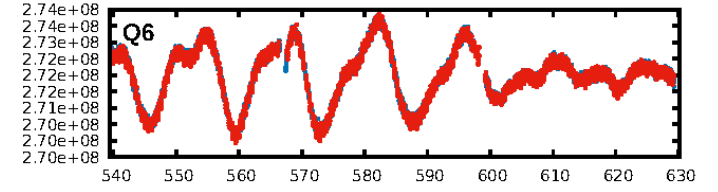
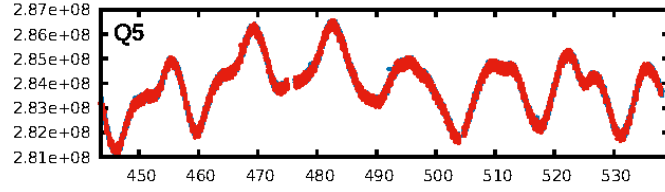
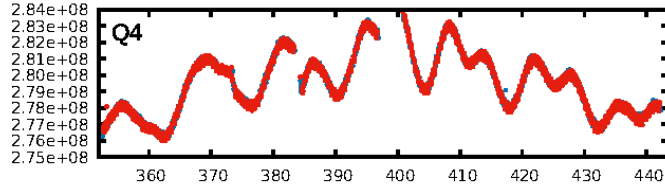
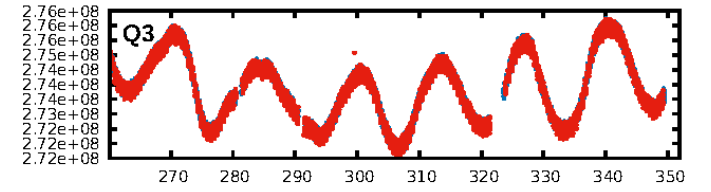
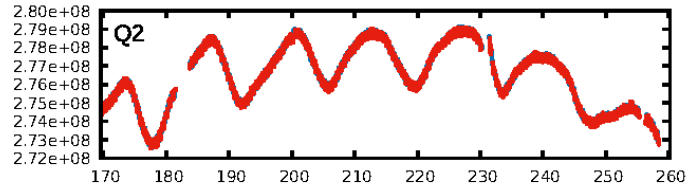
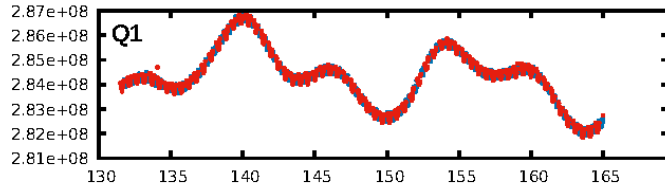
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [355.56σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: 7.58e-16
RollingBand-fgt: 1.00 [2464/2467]
GhostDiagnostic-chr: 1.644
Centroid-sig: 91.2%
Centroid-so: 2.339 arcsec [0.58σ]
OotOffset-rm: 10.277 arcsec [147.69σ]
KicOffset-rm: 10.439 arcsec [152.02σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

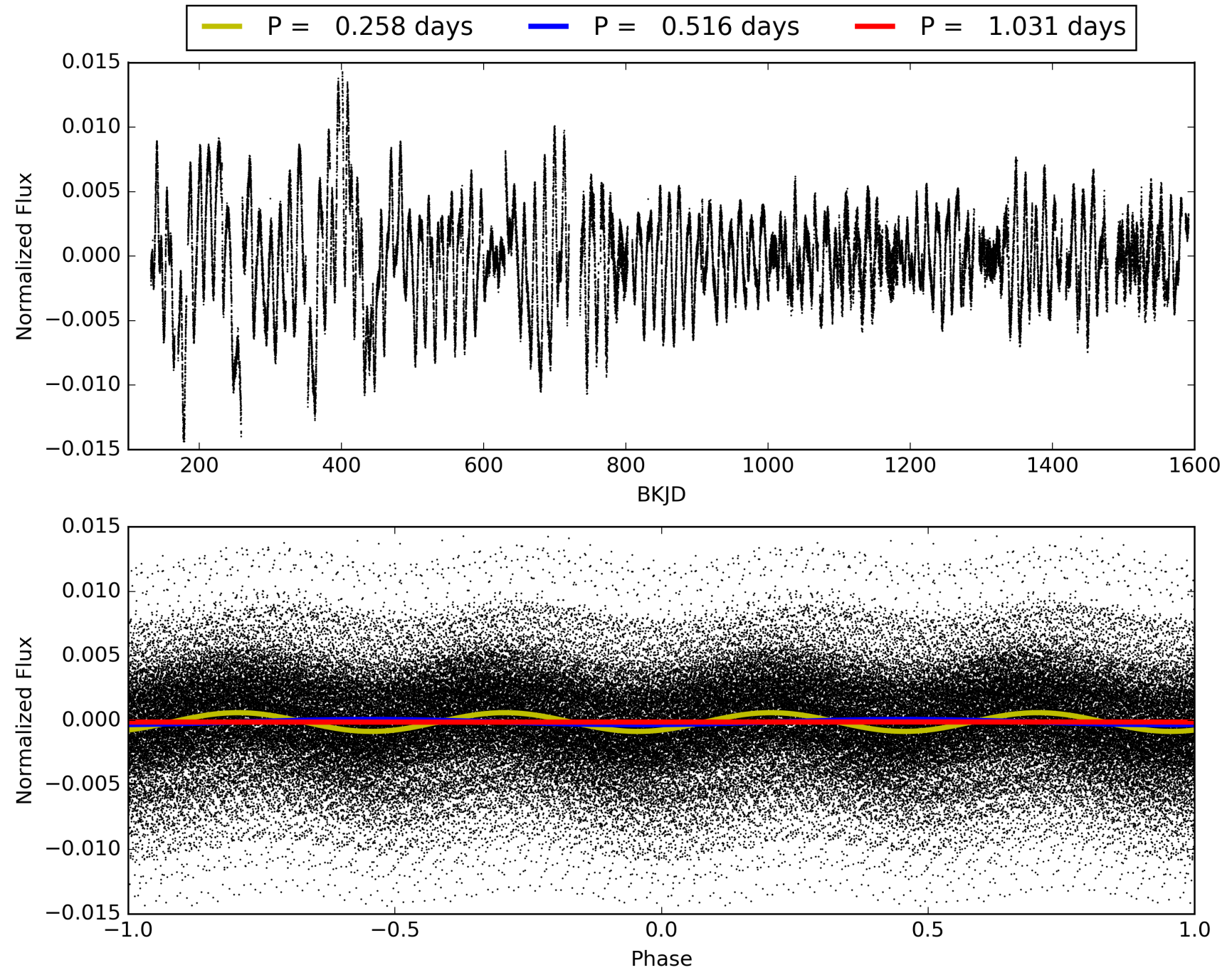
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:12:21 Z

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

TCE 008263926-02, PDC Light Curves

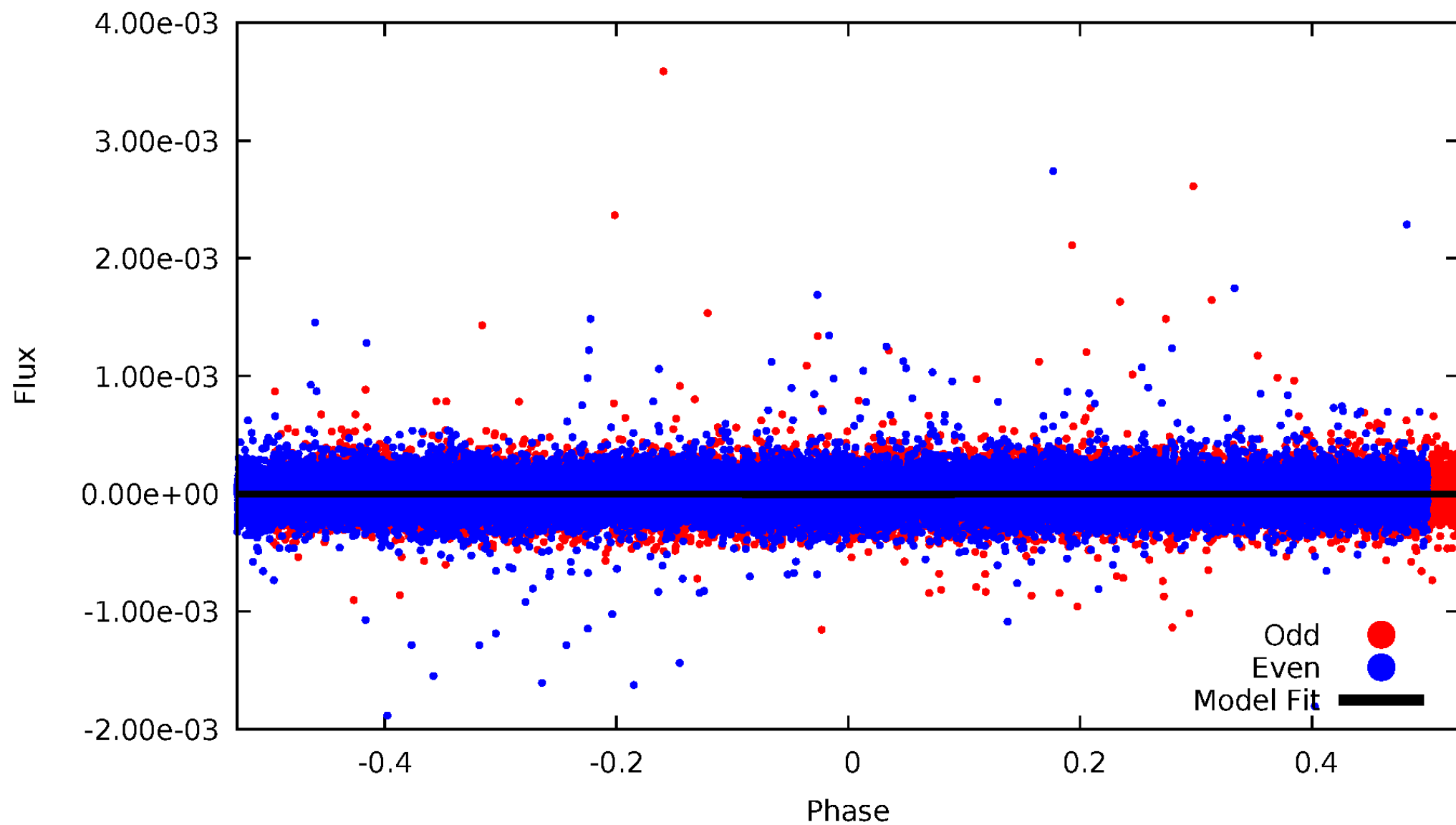


TCE 008263926-02



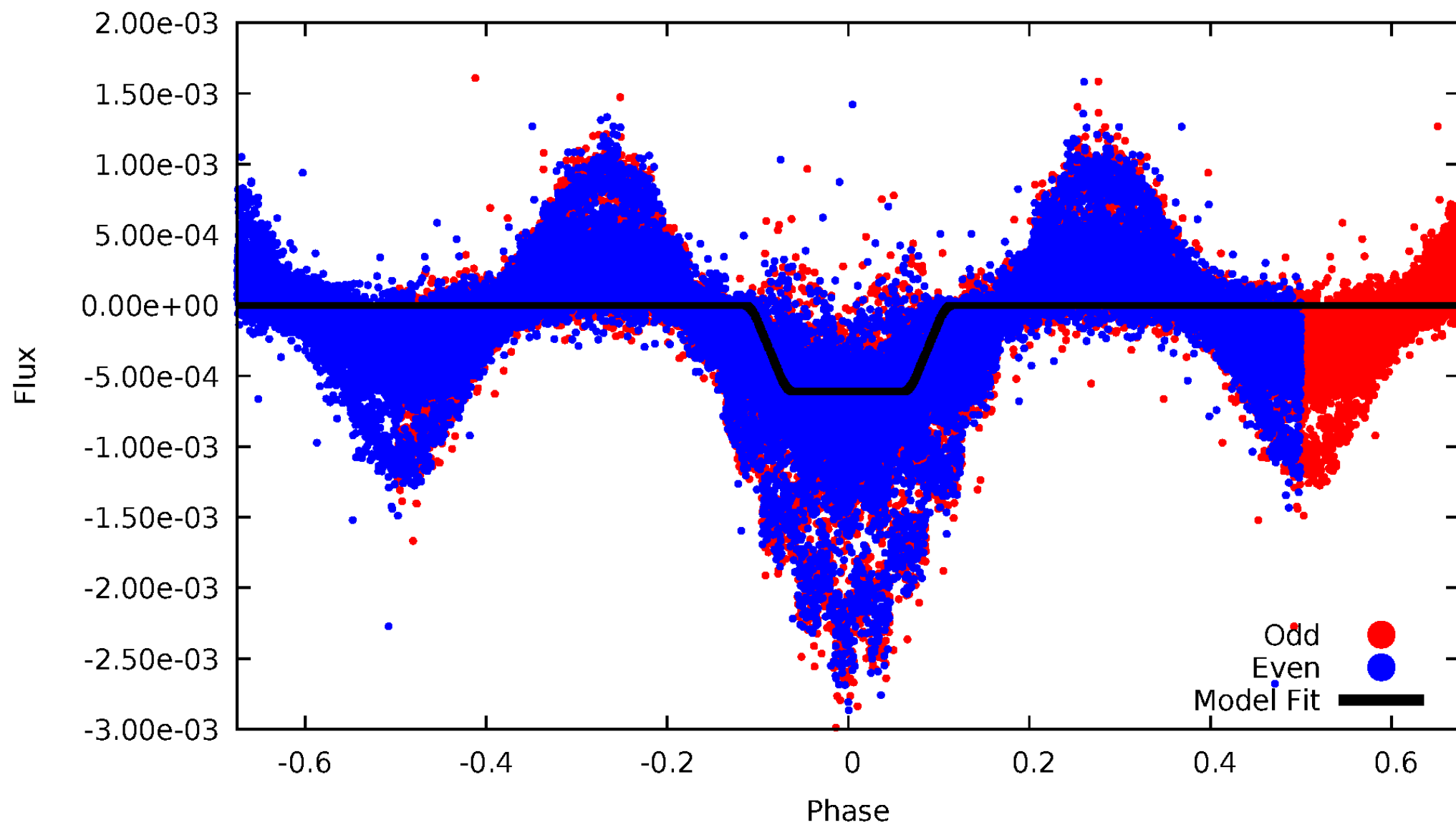
DV Odd/Even

TCE 008263926-02



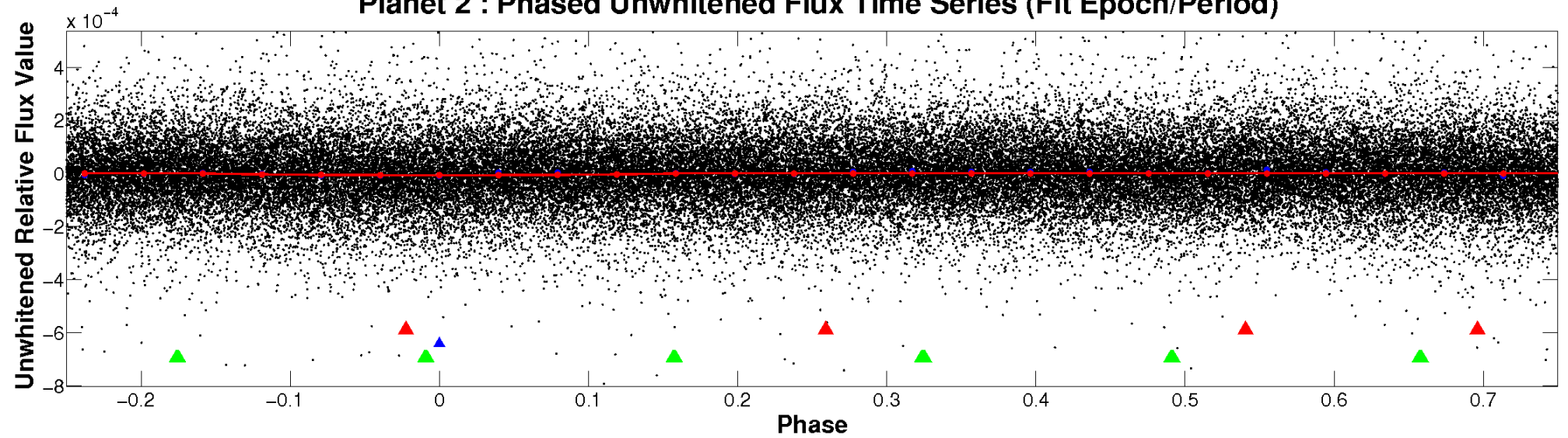
ALT Odd/Even

TCE 008263926-02

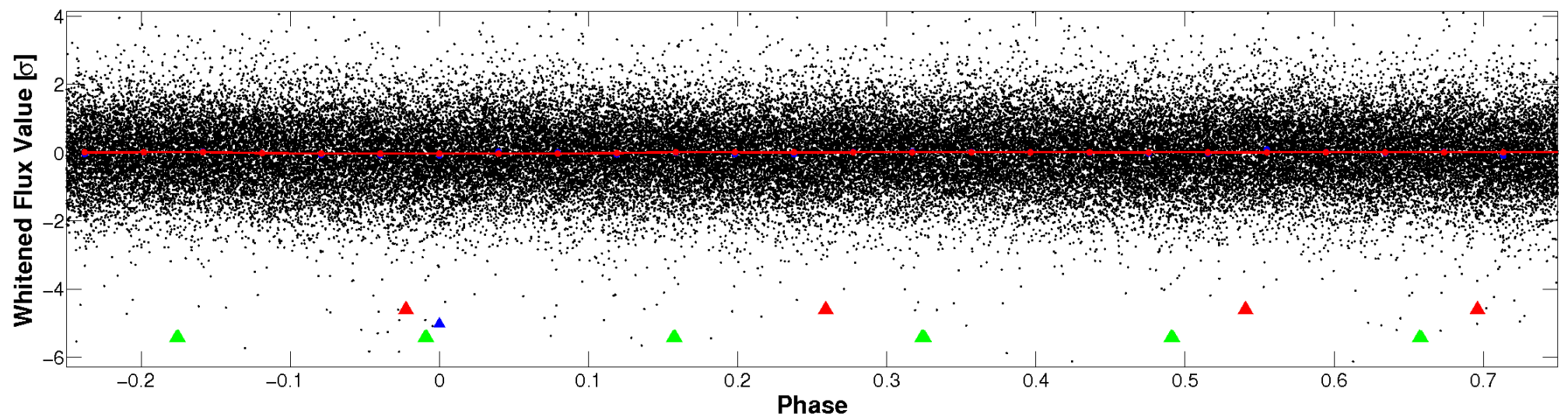


Non-Whitened Vs. Whitened Light Curve

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

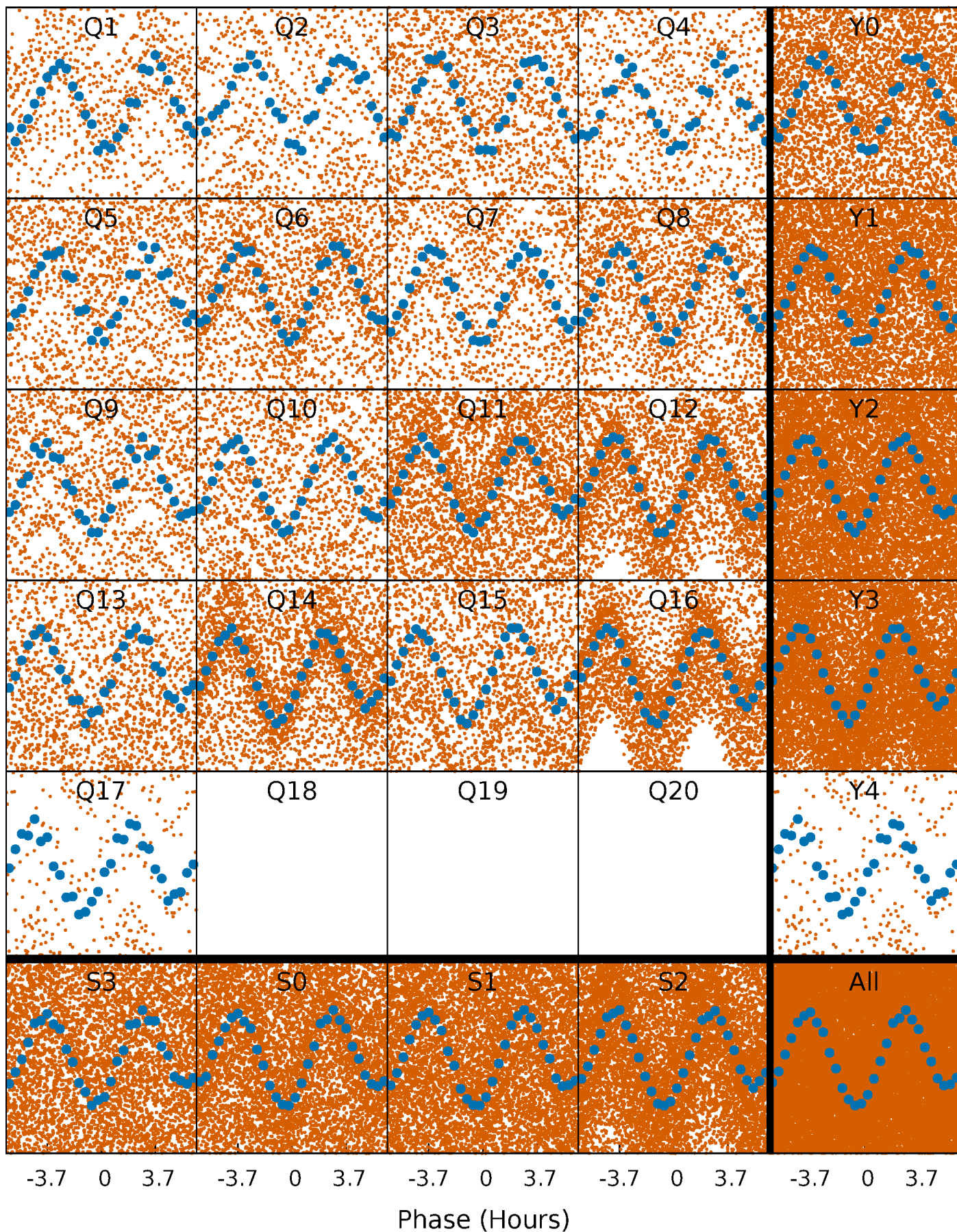


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



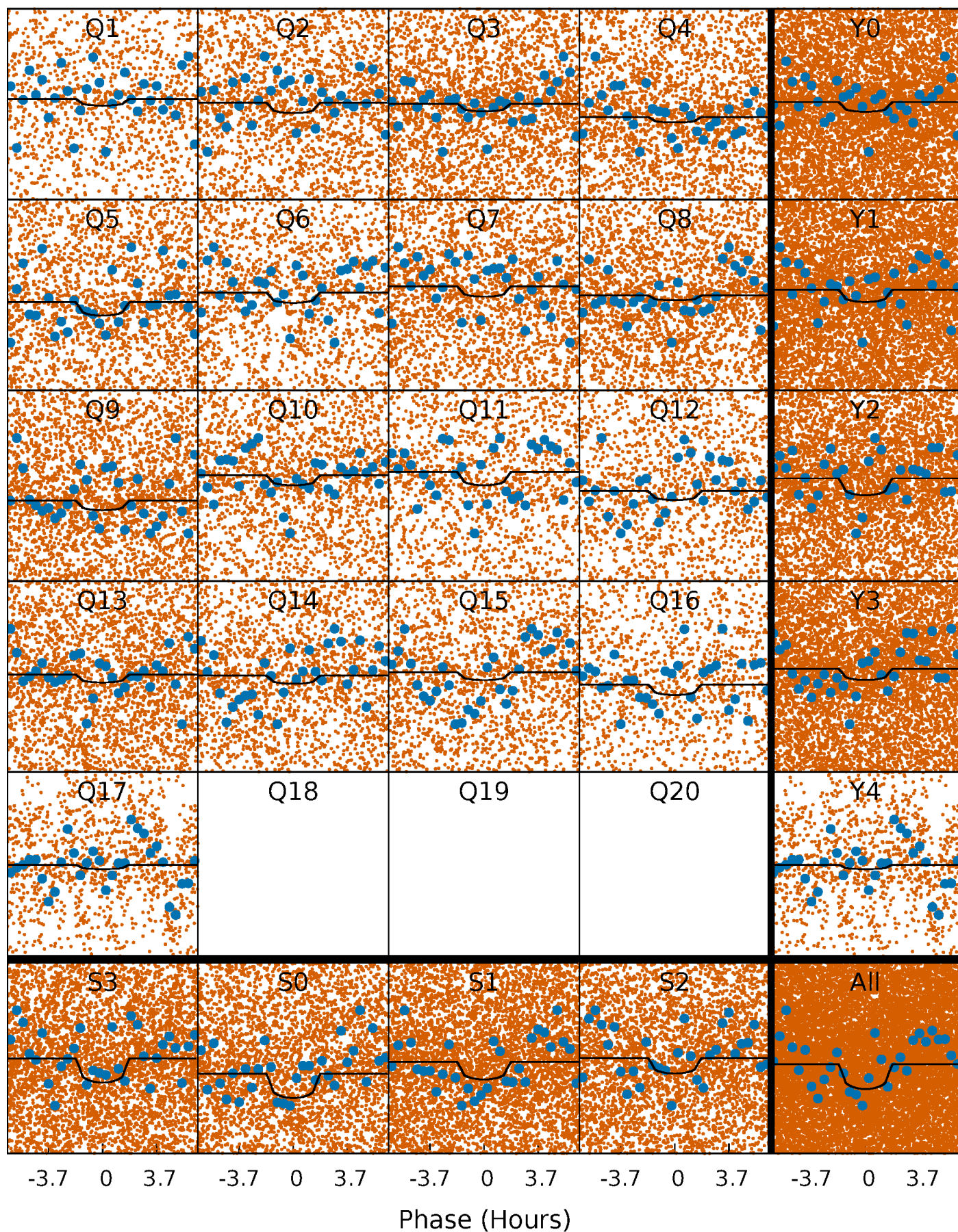
PDC Quarter-Phased Transit Curves

TCE 008263926-02 P= 0.515520 Days $T_0=131.603129$ (BKJD)



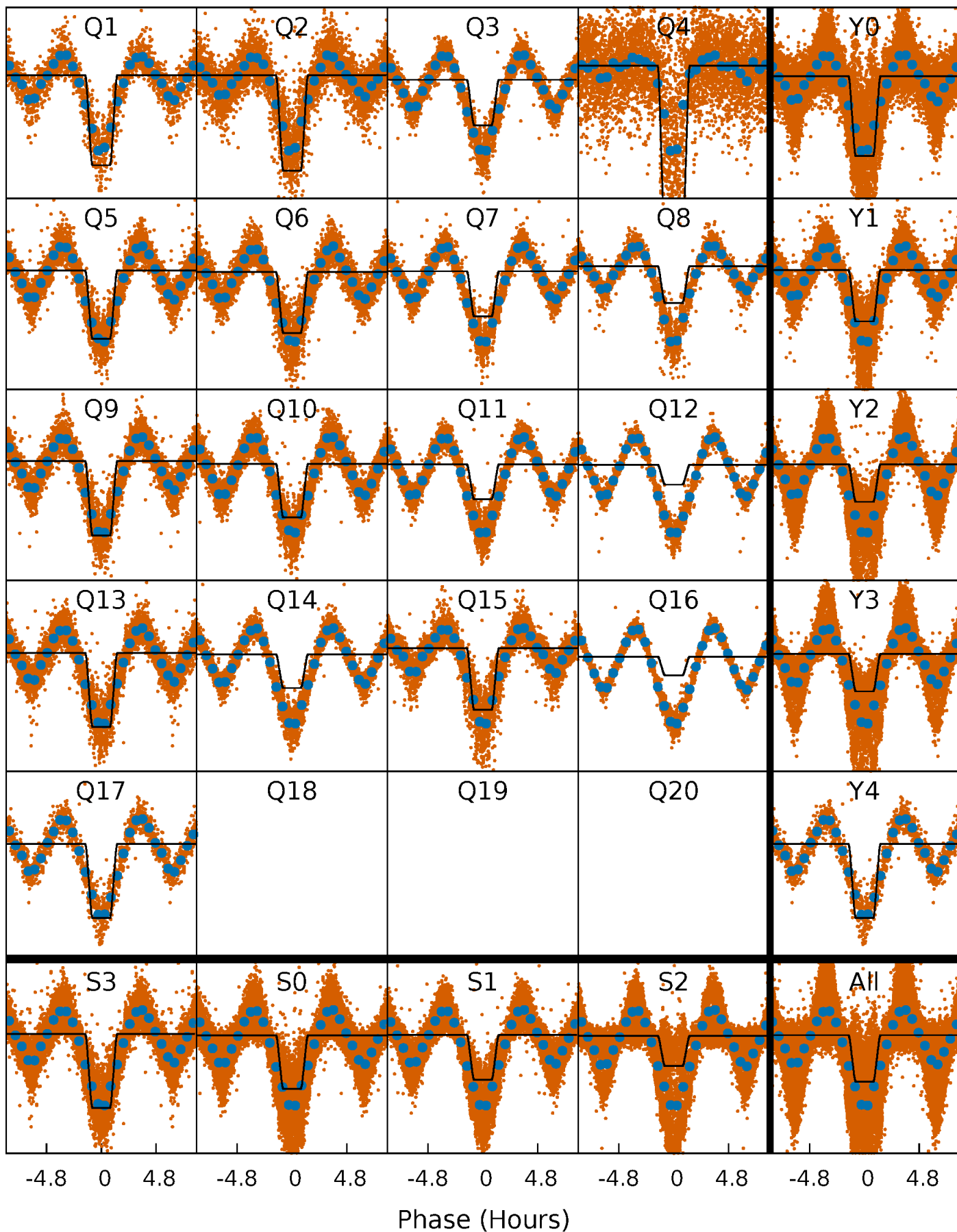
DV Quarter-Phased Transit Curves

TCE 008263926-02 P= 0.515520 Days $T_0=131.603129$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

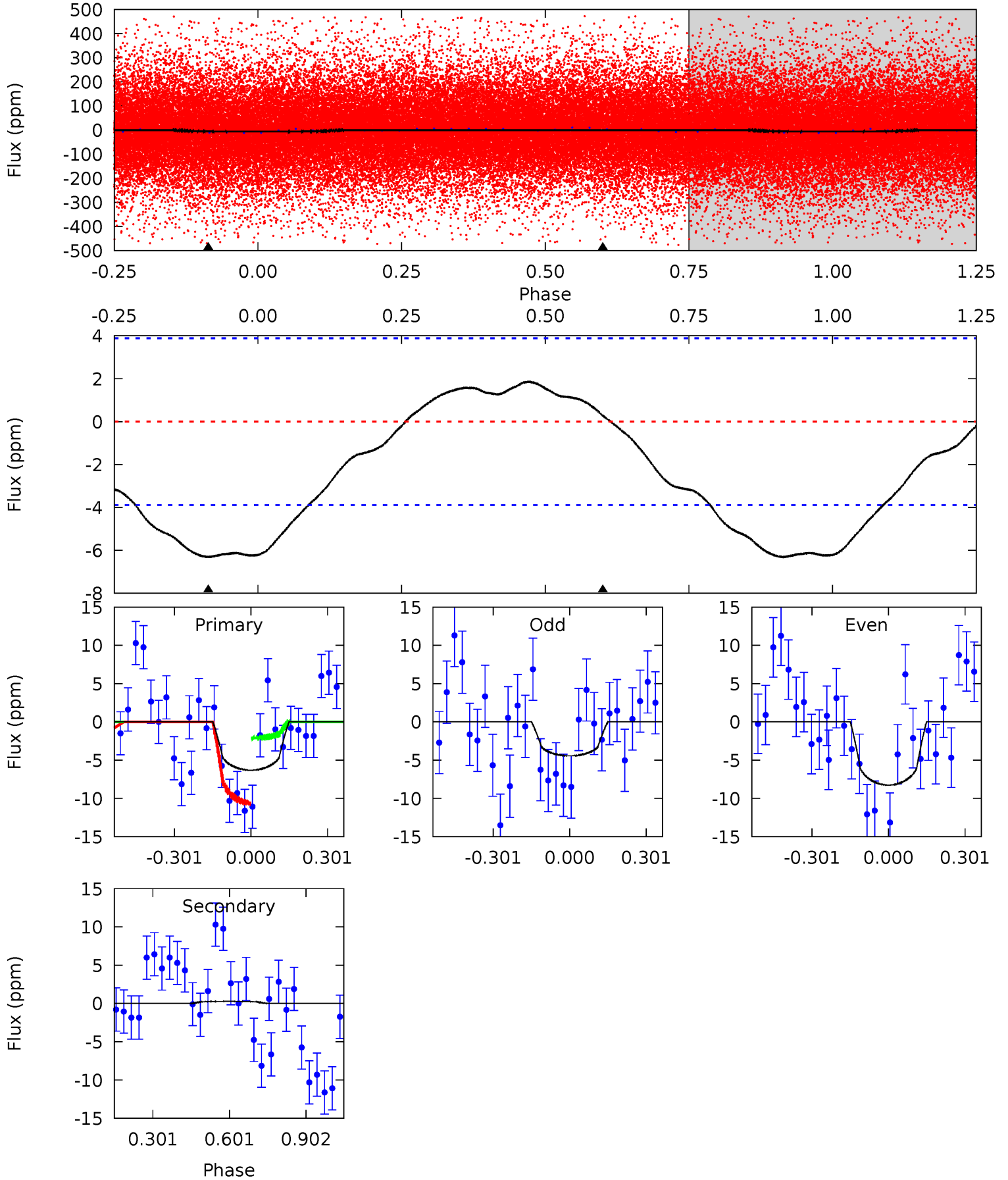
TCE 008263926-02 P= 0.515495 Days $T_0=131.616787$ (BKJD)



DV Model-Shift Uniqueness Test

008263926-02, P = 0.515520 Days, E = 131.087609 Days

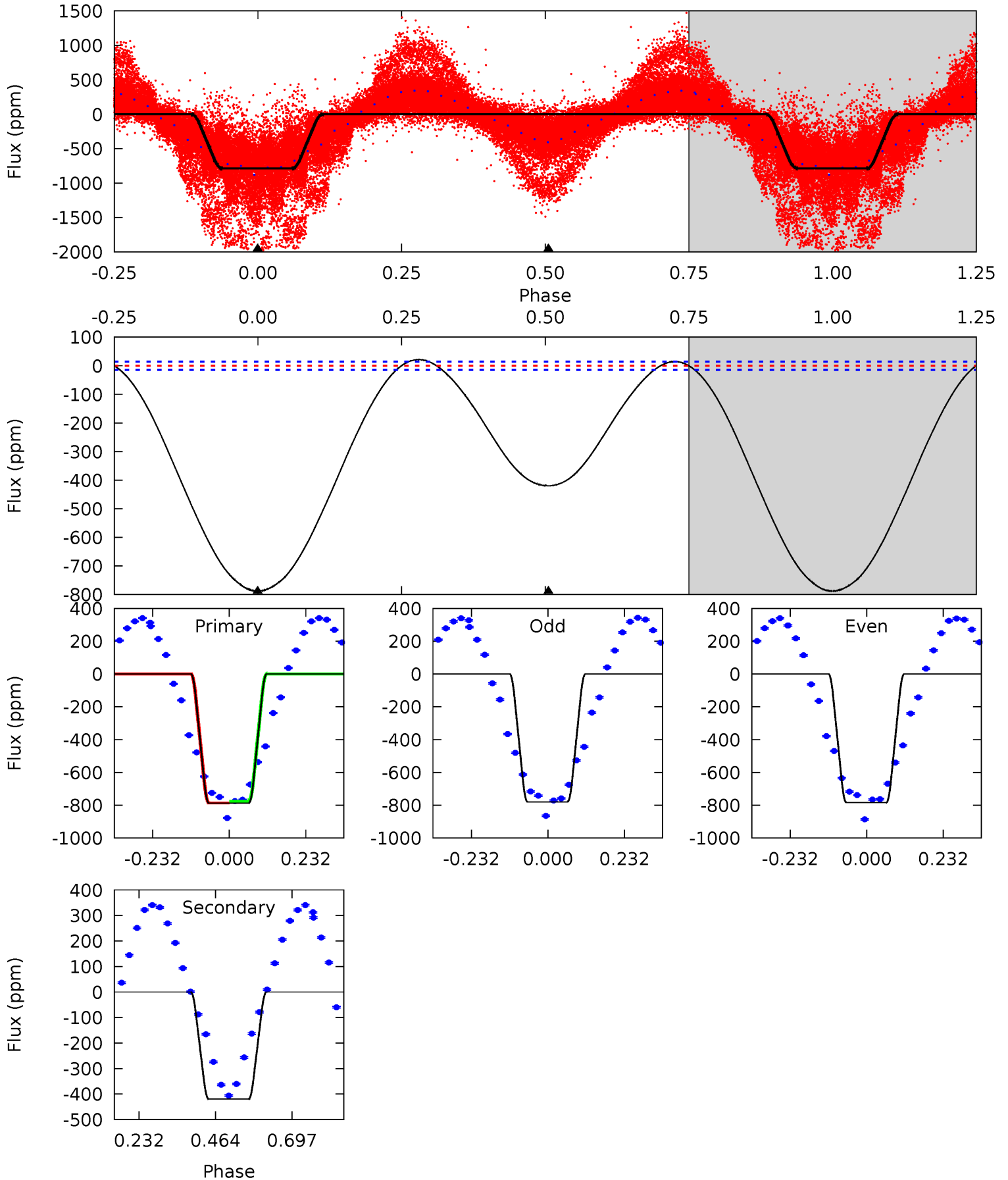
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.03	-0.31	0	0	4.33	1.03	0.81	7.03	7.03	-0.31	-0.31	2.13	0.67	0.23	4.75



Alt Model-Shift Uniqueness Test

008263926-02, P = 0.515495 Days, E = 131.101292 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
238.2	126.9	0	0	4.38	1.19	5.99	238.2	238.2	126.9	126.9	0.64	1.20	0.03	1.53



Stellar Parameters For KIC 008263926

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5804^{+158}_{-158}	$3.889^{+0.504}_{-0.126}$	$-0.080^{+0.300}_{-0.300}$	$2.012^{+0.419}_{-0.978}$	$1.144^{+0.140}_{-0.240}$	$0.198^{+1.031}_{-0.072}$
	+3%/-3%	+13%/-3%	+375%/-375%	+21%/-49%	+12%/-21%	+521%/-36%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008263926-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1	$0.50^{+0.32}_{-0.27}$	4311^{+356}_{-565}	-4047^{+1113}_{-773}	$-0.092^{+0.335}_{-0.690}$
Alt.	-420 ± 3	$5.21^{+0.83}_{-1.46}$	4330^{+324}_{-577}	5064^{+228}_{-212}	$1.478^{+1.176}_{-0.361}$

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 $A_{obs} \gg 1.0$

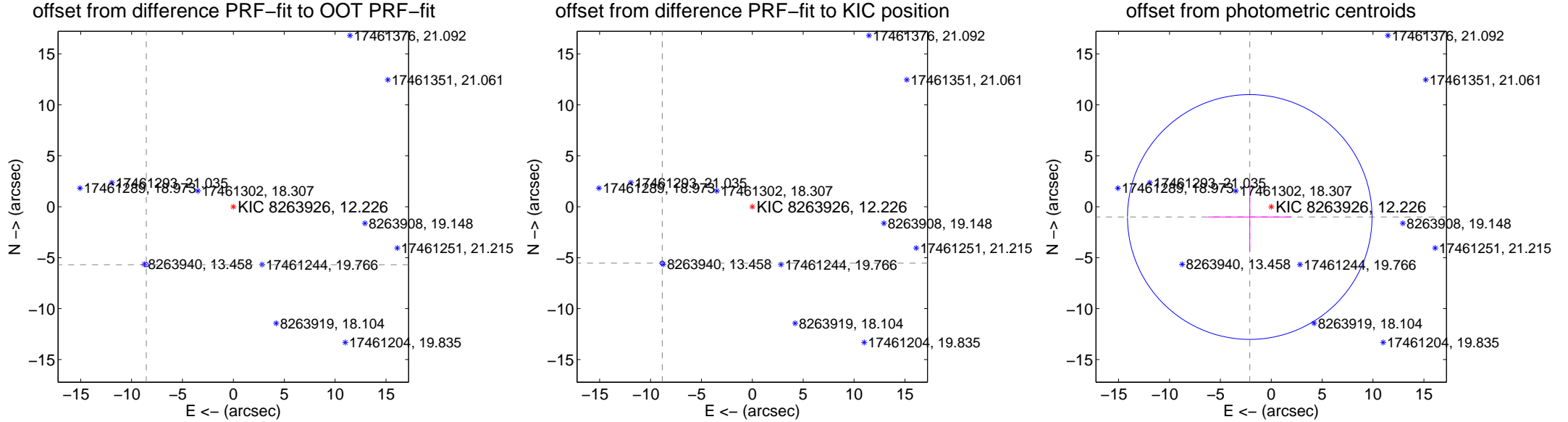
DV Centroid Data

Supplemental centroid analysis for 008263926-02. Kepler magnitude: 12.23. Transit SNR 4.05

There are 17 quarters with good PRF difference image offsets

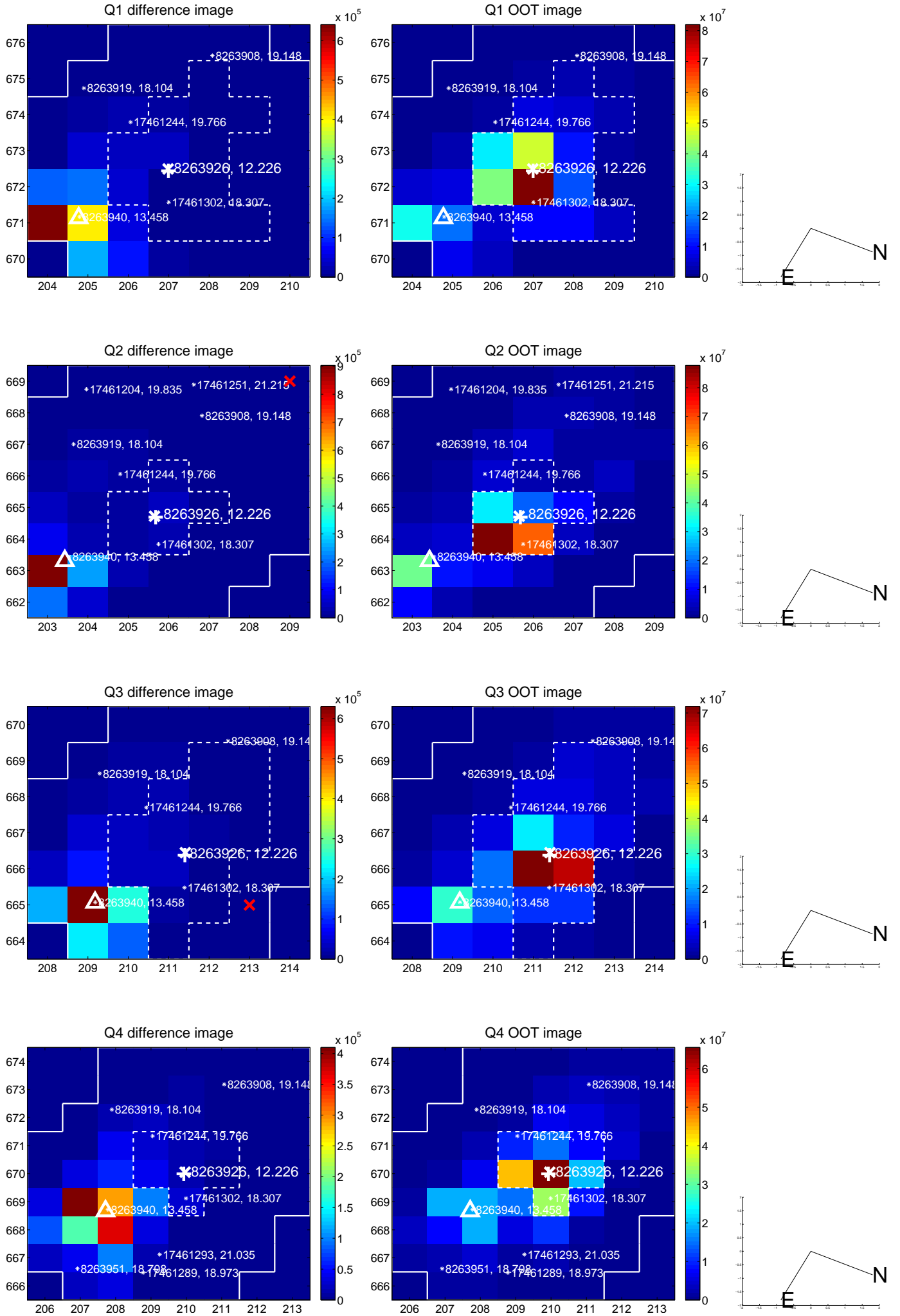
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	10.277 \pm 0.070	147.69	8.557 \pm 0.071	-5.692 \pm 0.067
PRF-fit source offset from KIC position	10.439 \pm 0.069	152.02	8.847 \pm 0.068	-5.542 \pm 0.069
photometric centroid source offset	2.34 \pm 4.00	0.58	2.11 \pm 4.12	-1.01 \pm 3.47

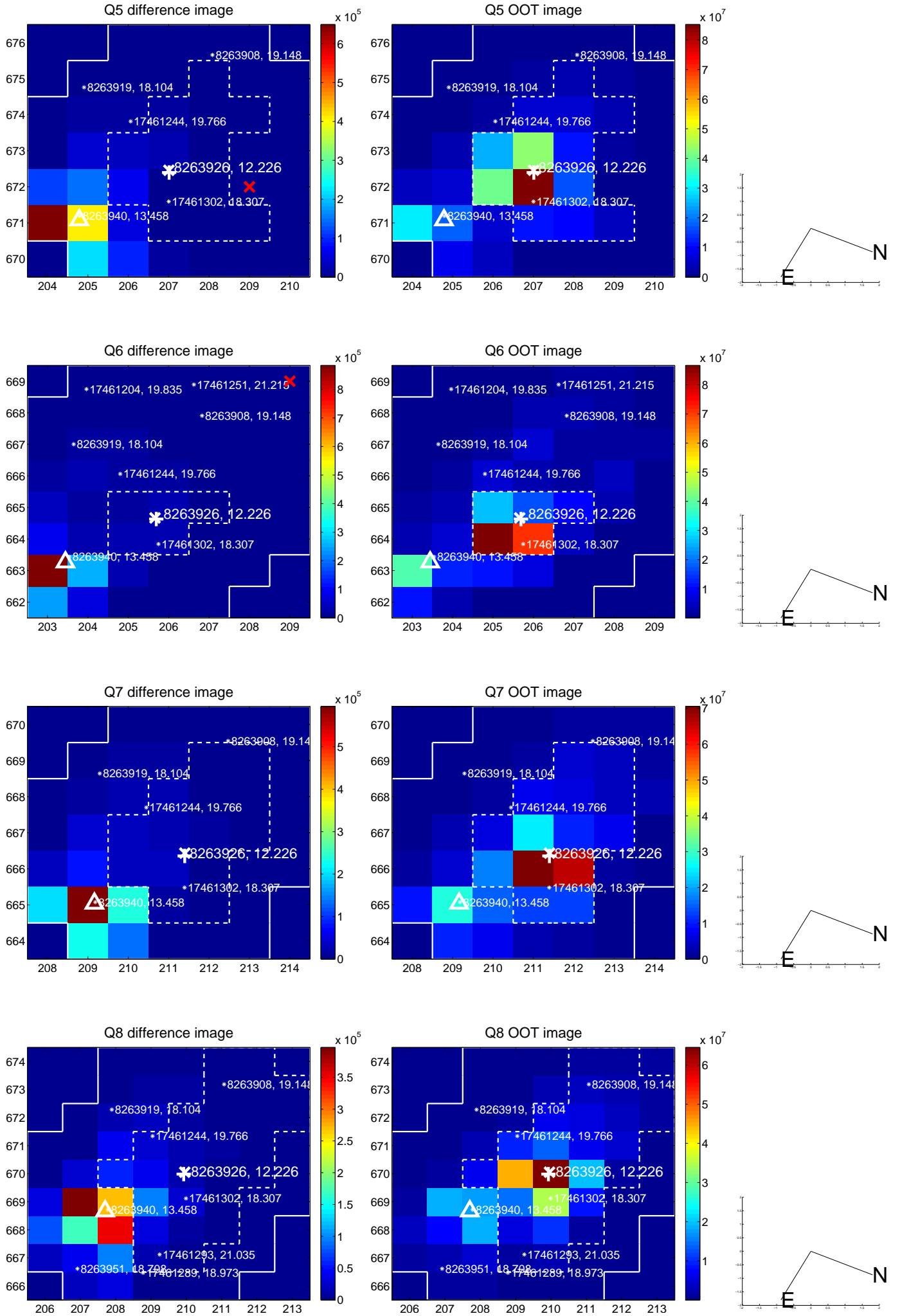


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

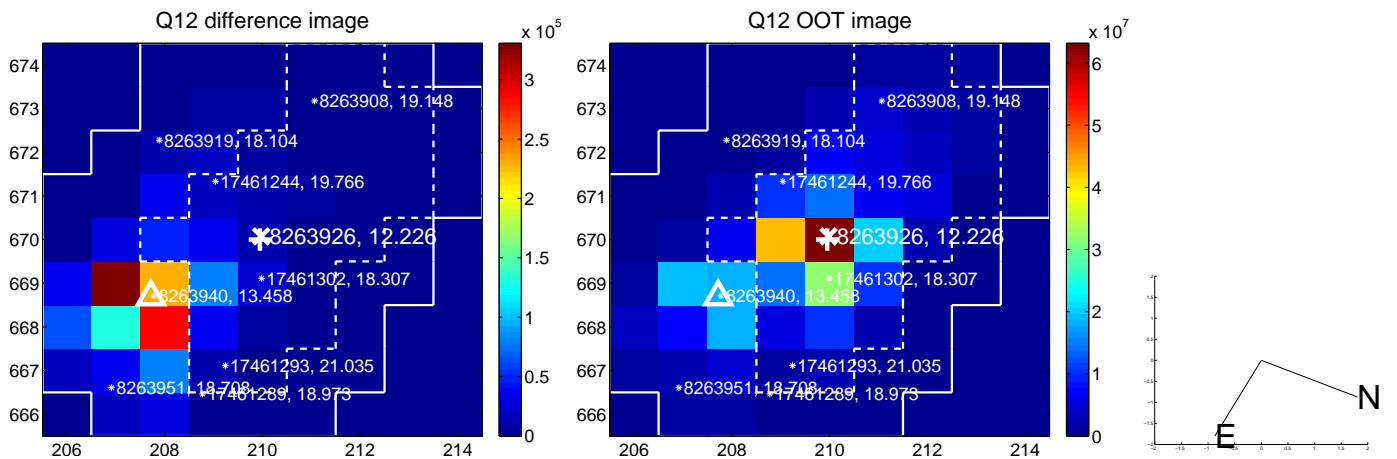
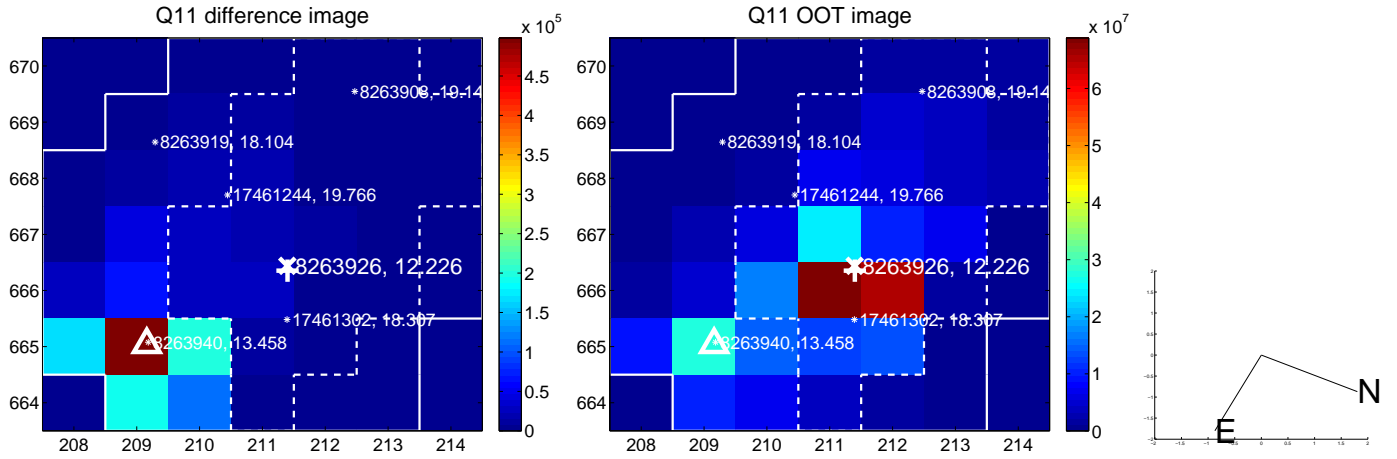
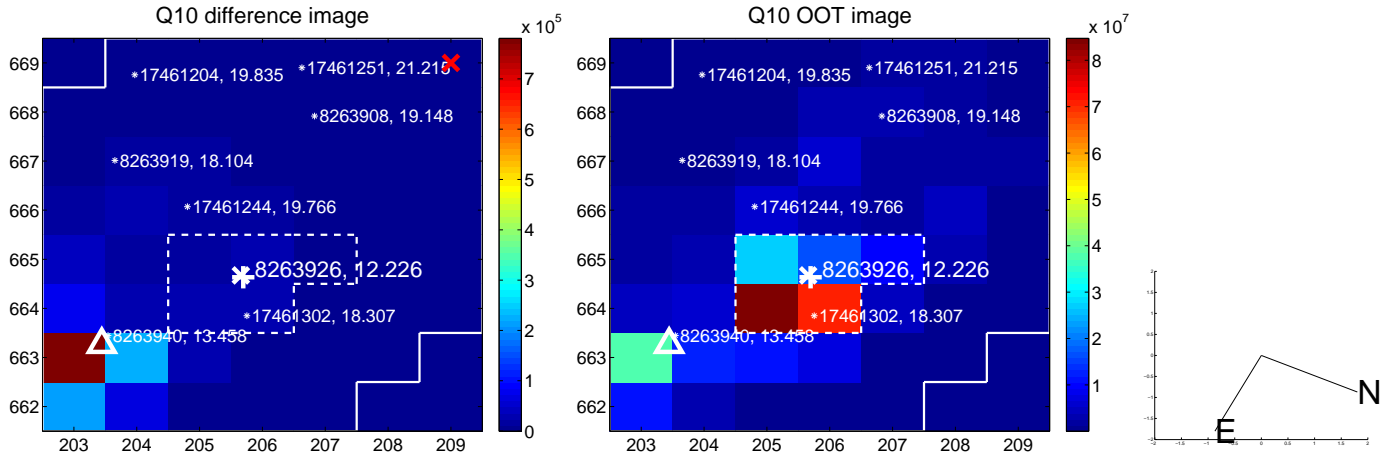
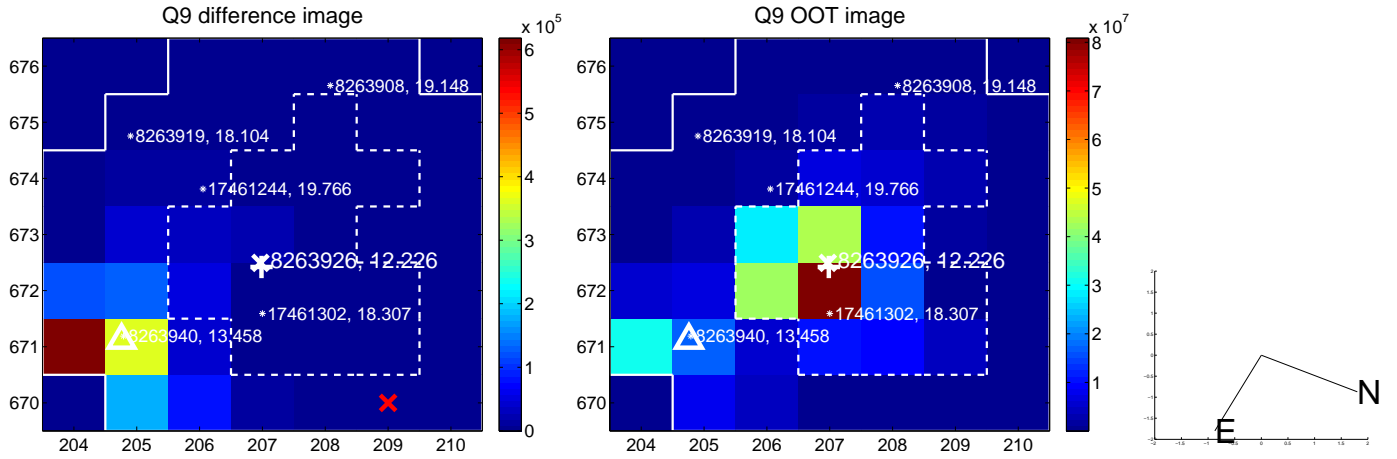
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



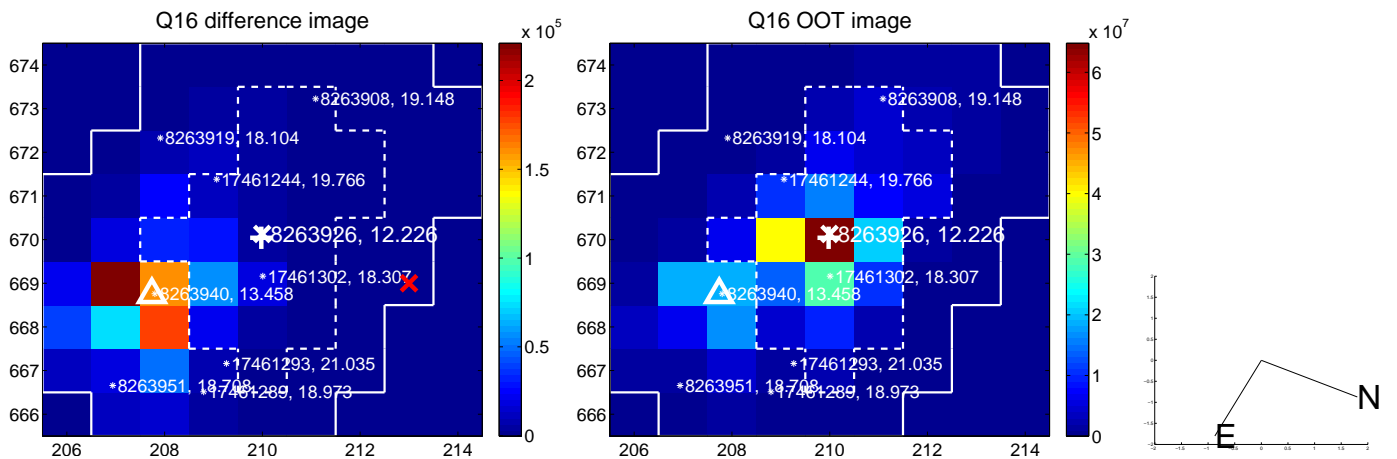
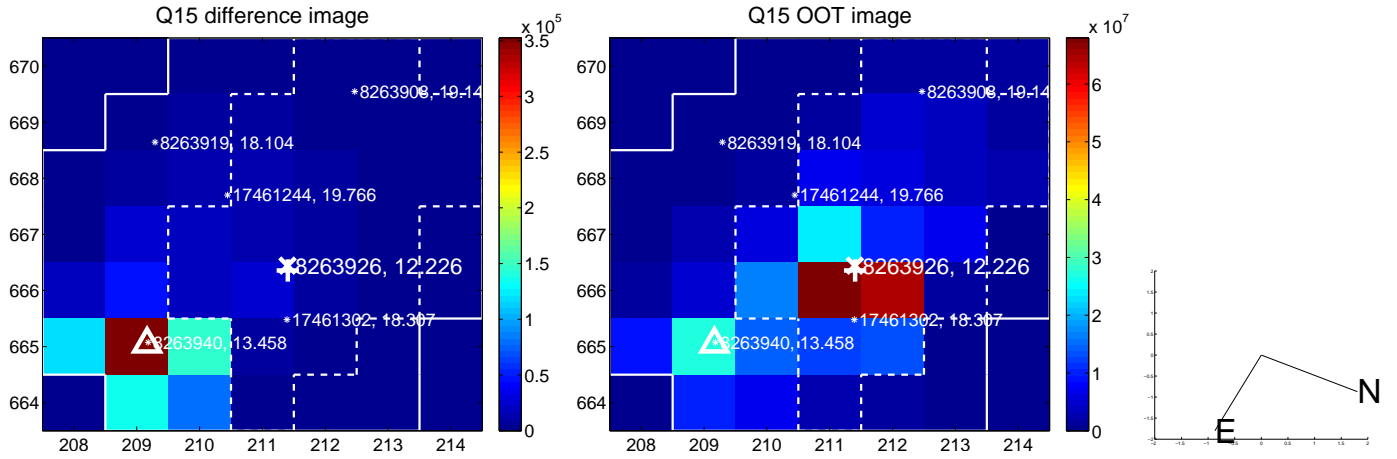
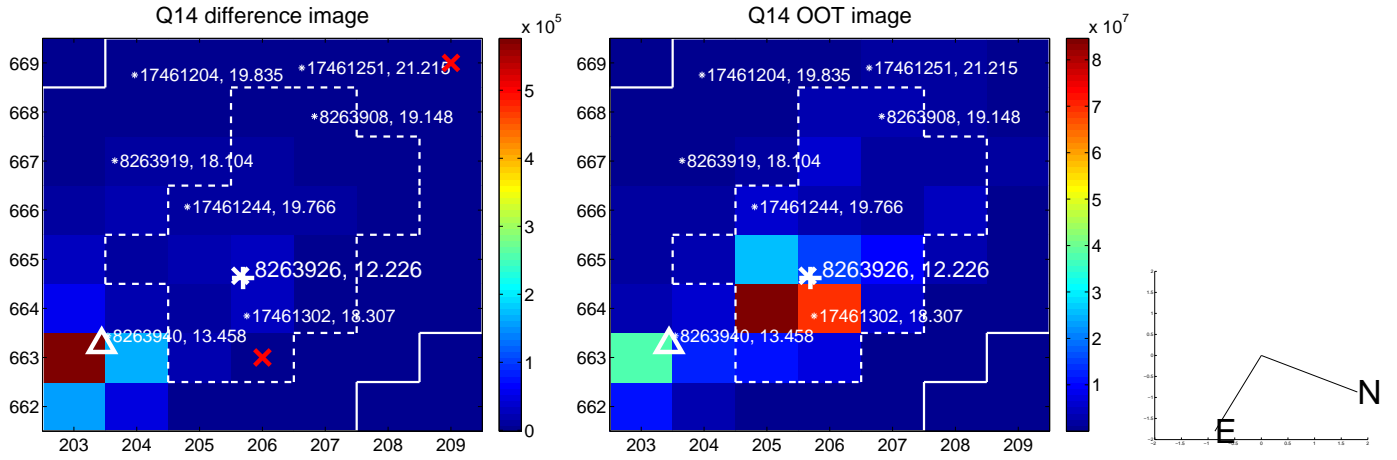
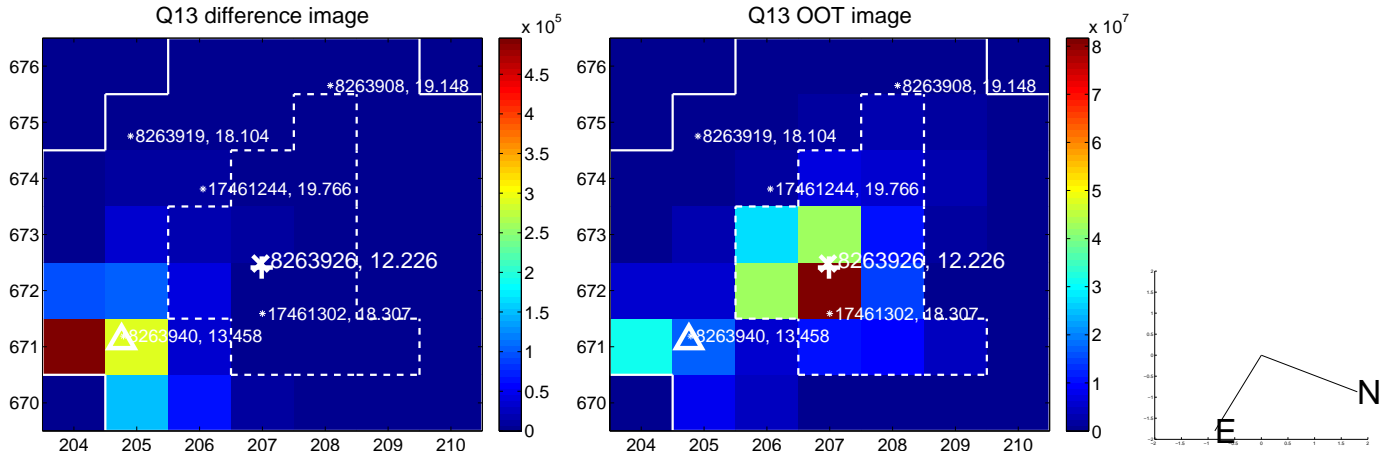
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



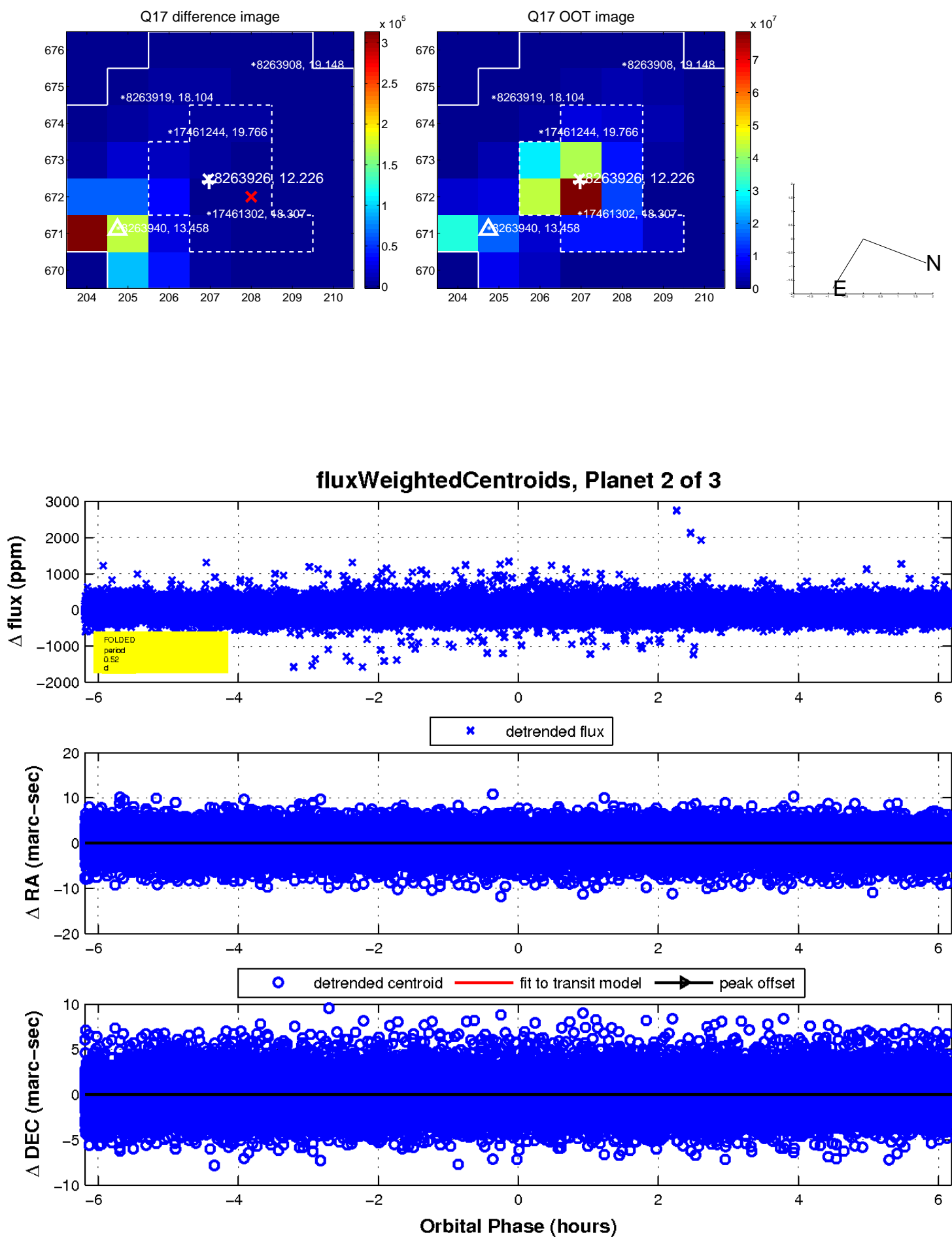
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

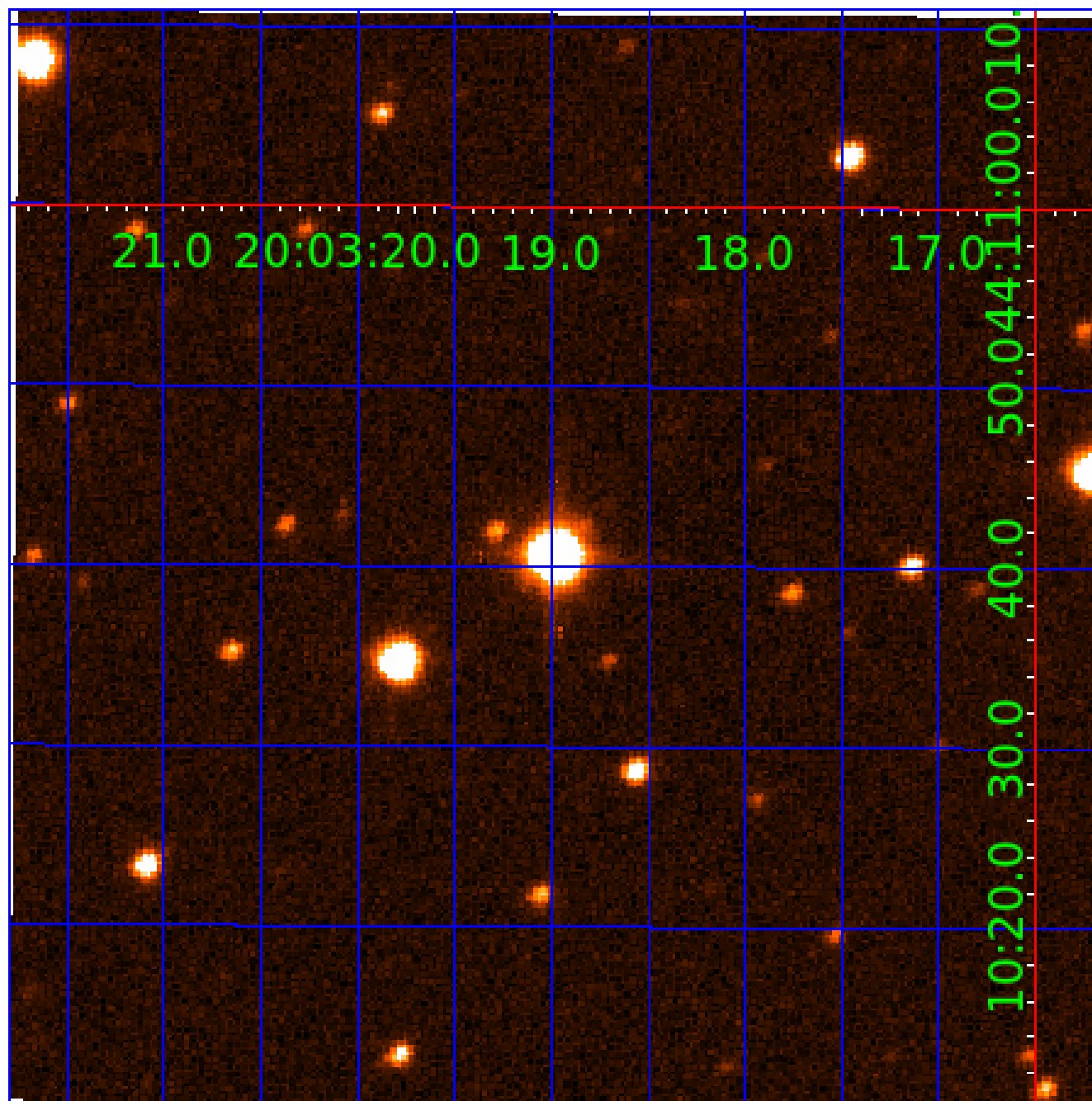


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008263926

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})
008263926-01	OBS	No	359.977969	373.740808	1076.7	25.977	11.1	10.3	2.01	5804	12.79	3.84
008263926-02	OBS	No	0.515520	131.603129	5.9	3.263	8.1	4.1	2.01	5804	0.56	23762.68
008263926-03	OBS	No	59.370655	157.031398	561.0	2.266	7.3	7.5	2.01	5804	5.27	42.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008263926-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—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_DIFFS
008263926-02	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_RESOLVED_OFFSET
008263926-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_RESOLVED_OFFSET

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

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

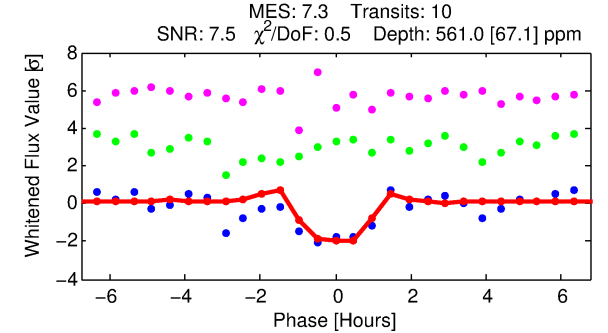
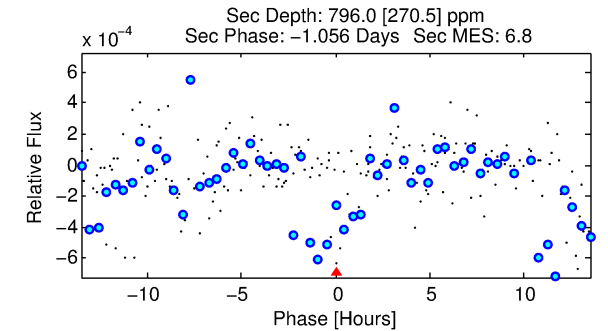
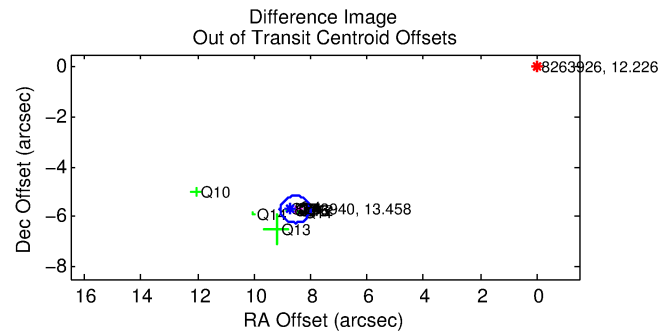
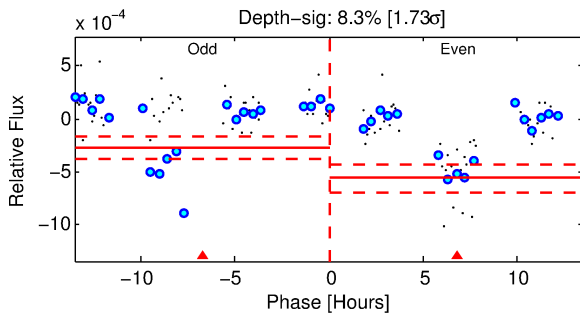
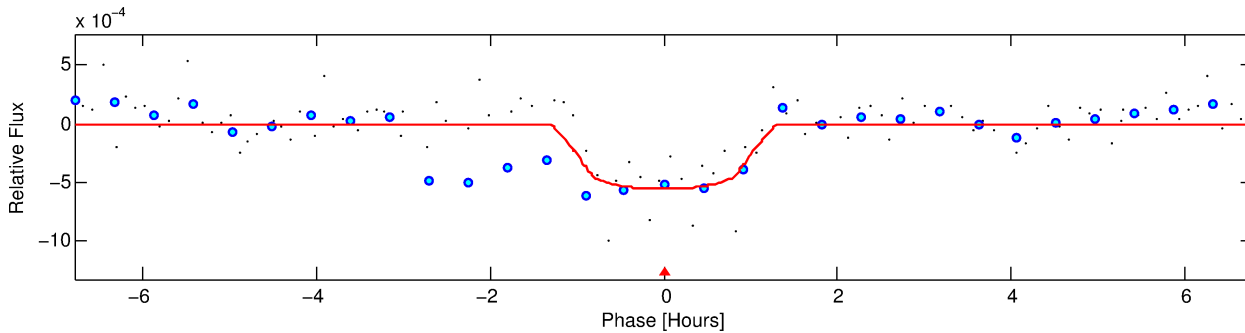
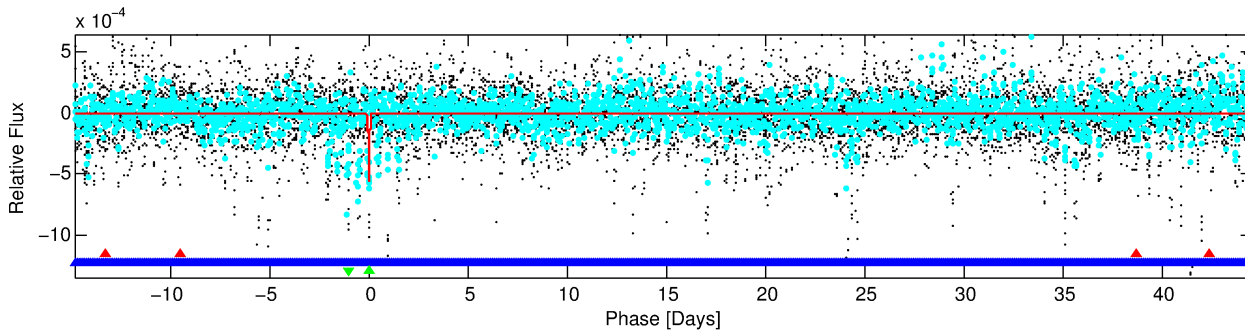
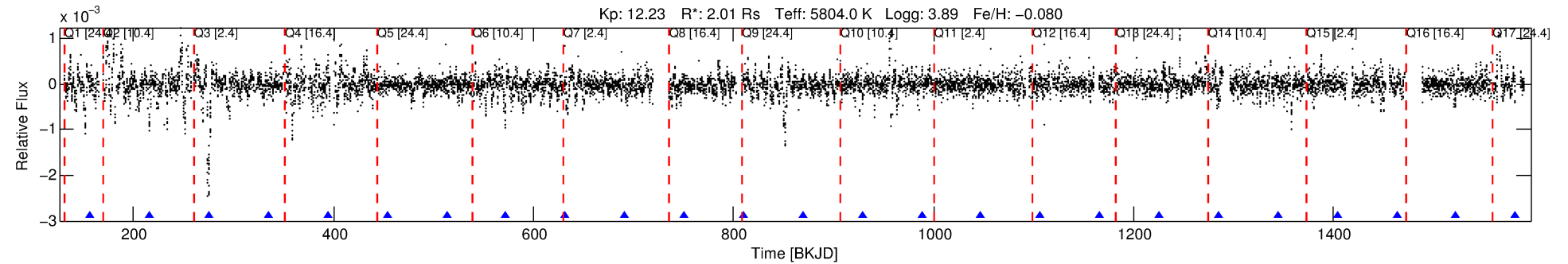
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008263926-03

No Significant Match Found

DV One-Page Summary

KIC: 8263926 Candidate: 3 of 3 Period: 59.371 d



DV Fit Results:

Period = 59.37065 [0.00042] d
Epoch = 157.0314 [0.0061] BKJD
Rp/R* = 0.0240 [0.0250]
a/R* = 130.80 [626.61]
b = 0.79 [2.34]
Seff = 42.41 [35.87]
Teq = 651 [138] K
Rp = 5.27 [6.06] Re
a = 0.3115 [0.1572] AU
Ag = 1532.77 [3485.19] [0.44σ]
Teffp = 6295 [3330] K [1.69σ]

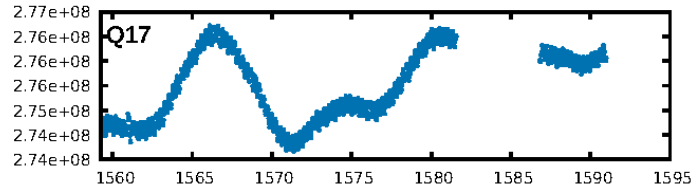
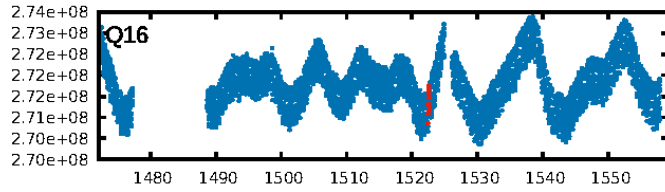
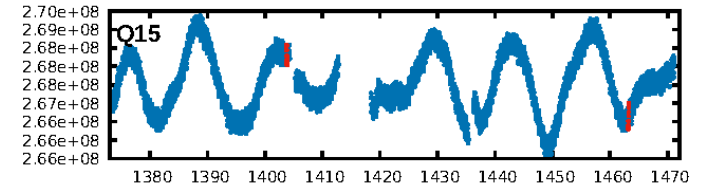
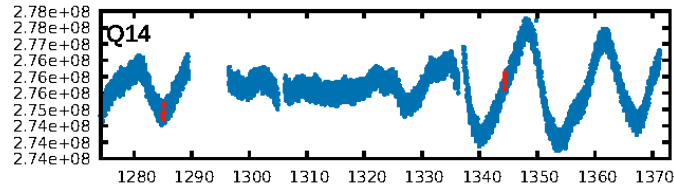
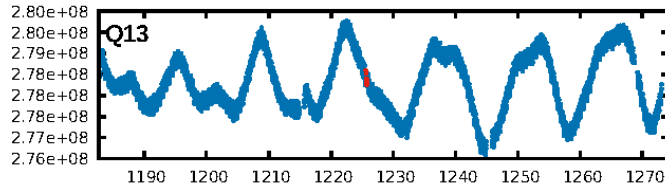
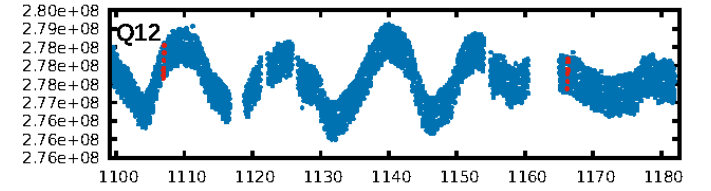
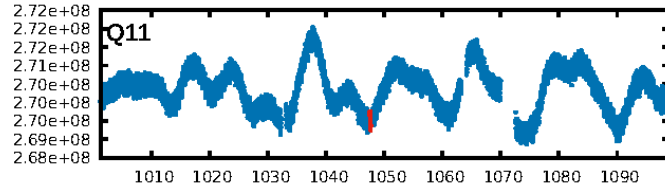
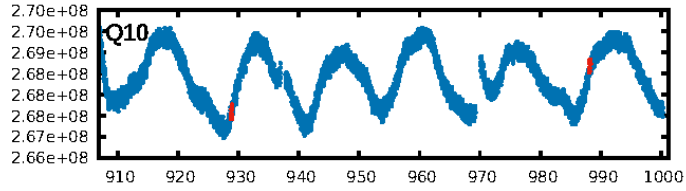
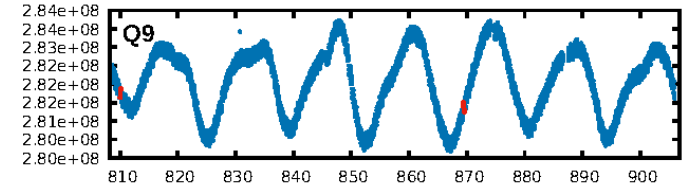
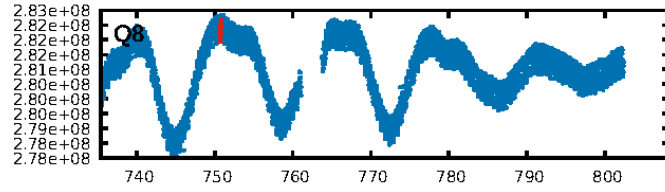
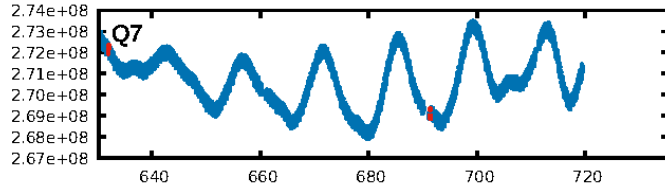
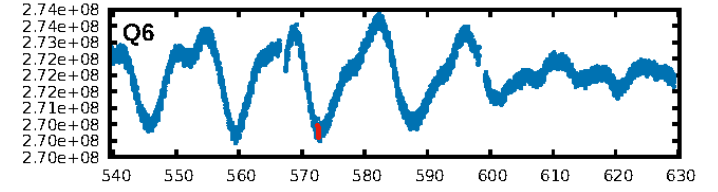
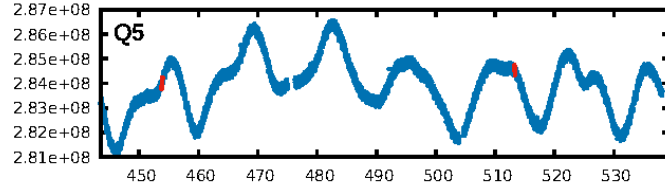
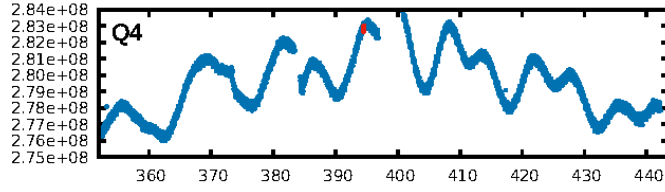
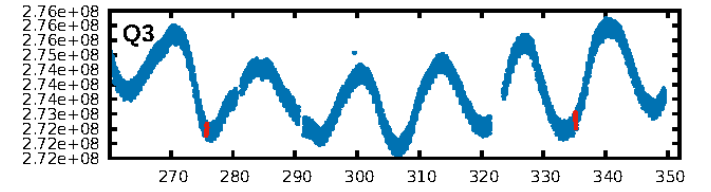
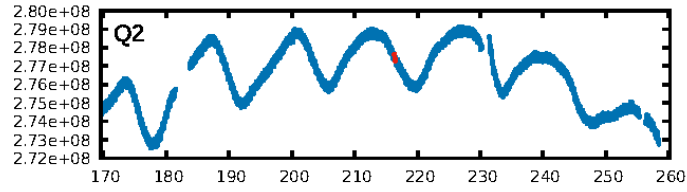
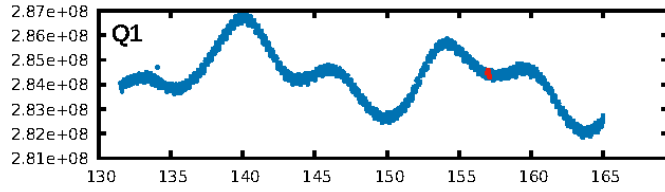
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [355.56σ]
LongPeriod-sig: 100.0% [276.67σ]
ModelChiSquare2-sig: 90.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.21e-09
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: 6.232
Centroid-sig: 56.1%
Centroid-so: 1.676 arcsec [3.23σ]
OotOffset-rm: 10.288 arcsec [57.59σ]
KicOffset-rm: 10.485 arcsec [61.66σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.50 [8/16]
DiffImageOverlap-fno: 0.00 [0/16]

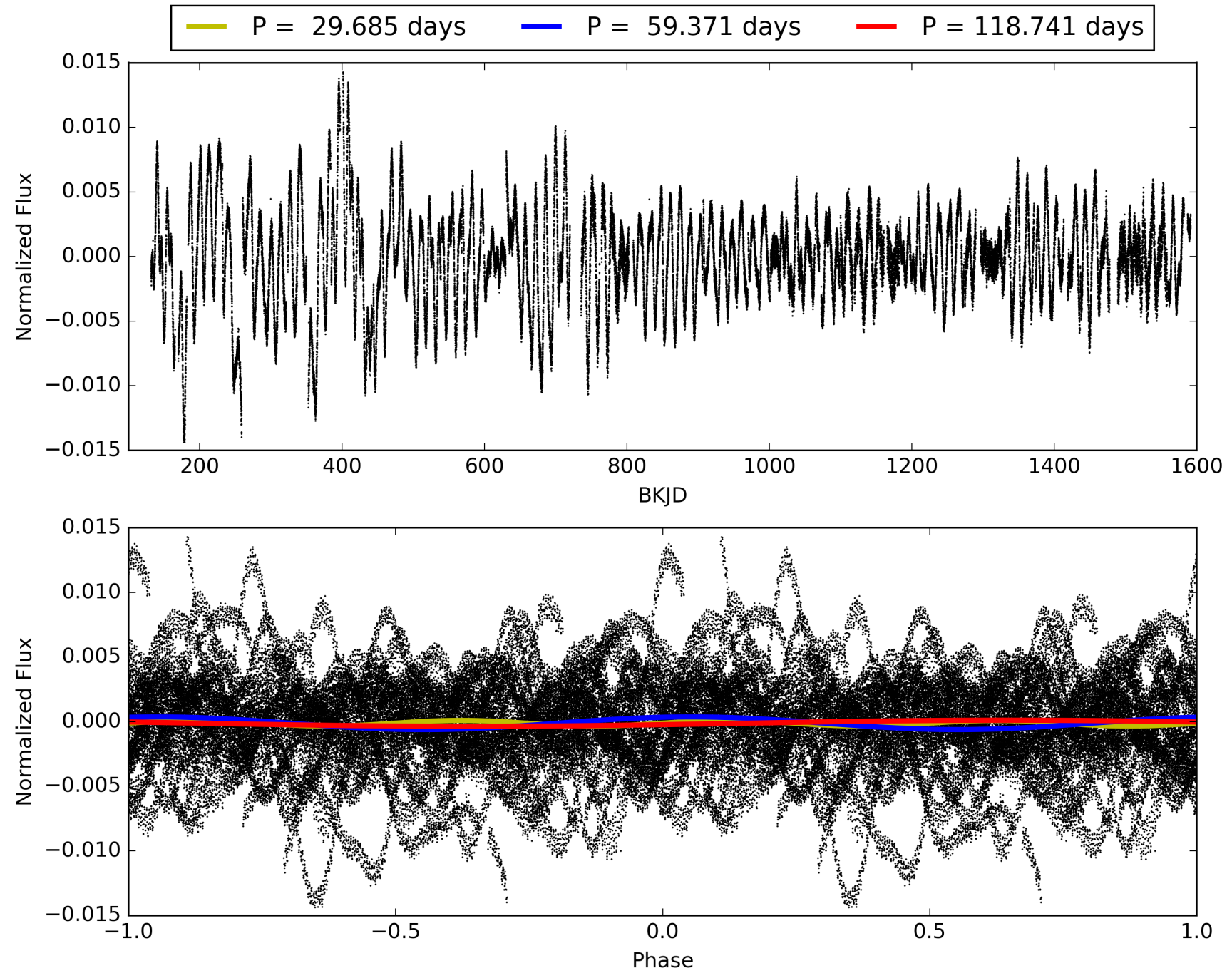
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 04:12:32 Z

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

TCE 008263926-03, PDC Light Curves

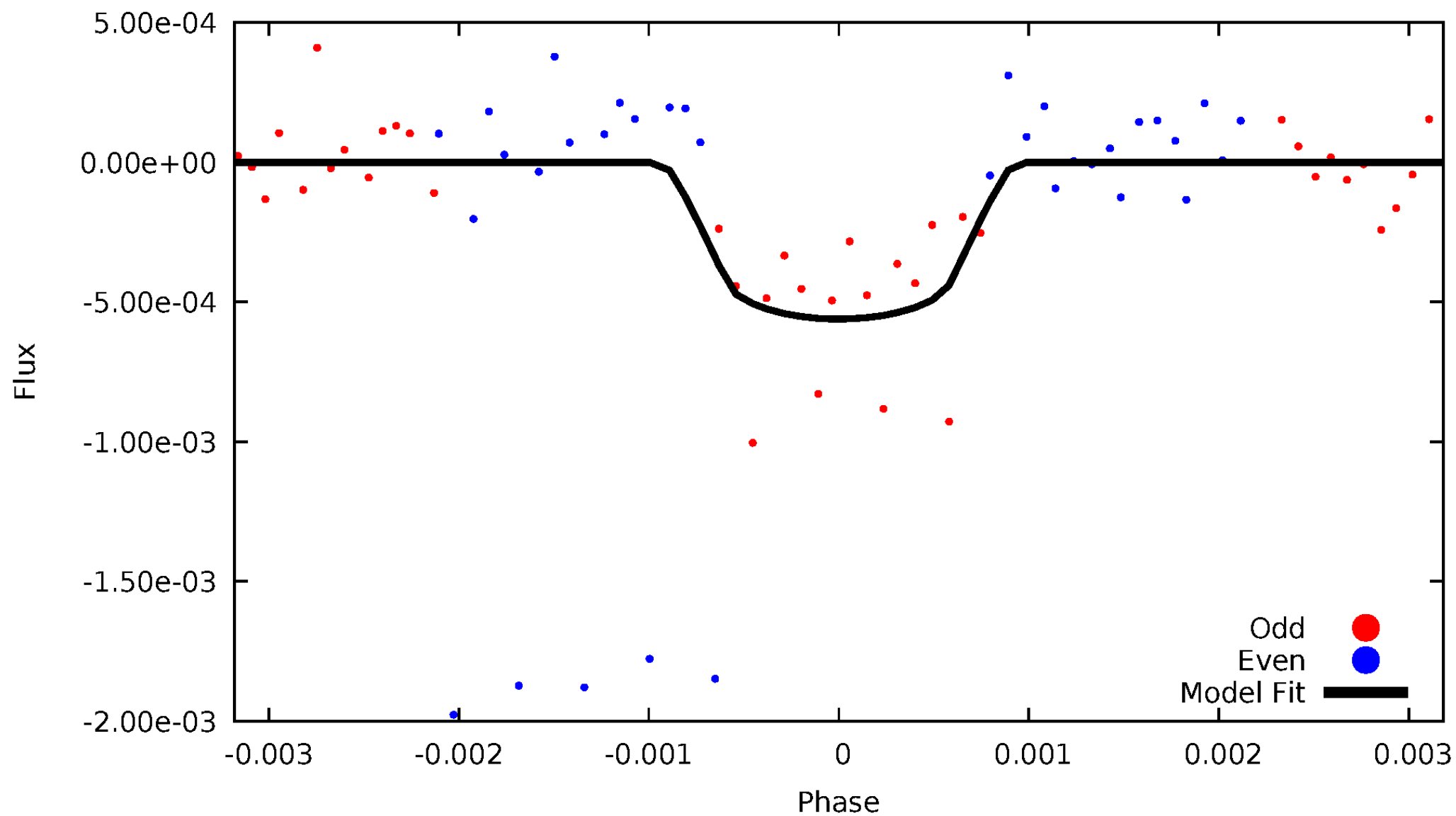


TCE 008263926-03



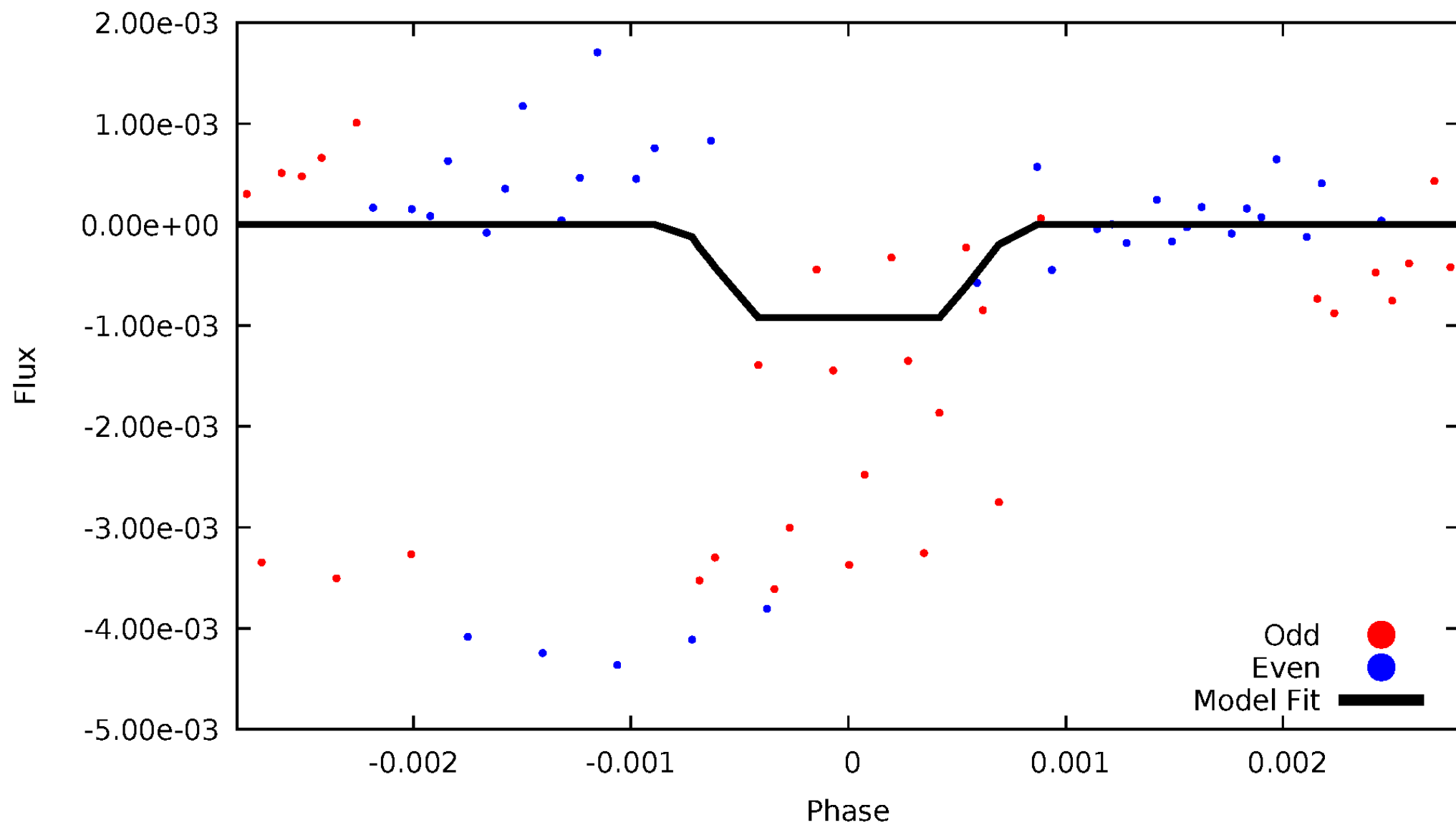
DV Odd/Even

TCE 008263926-03



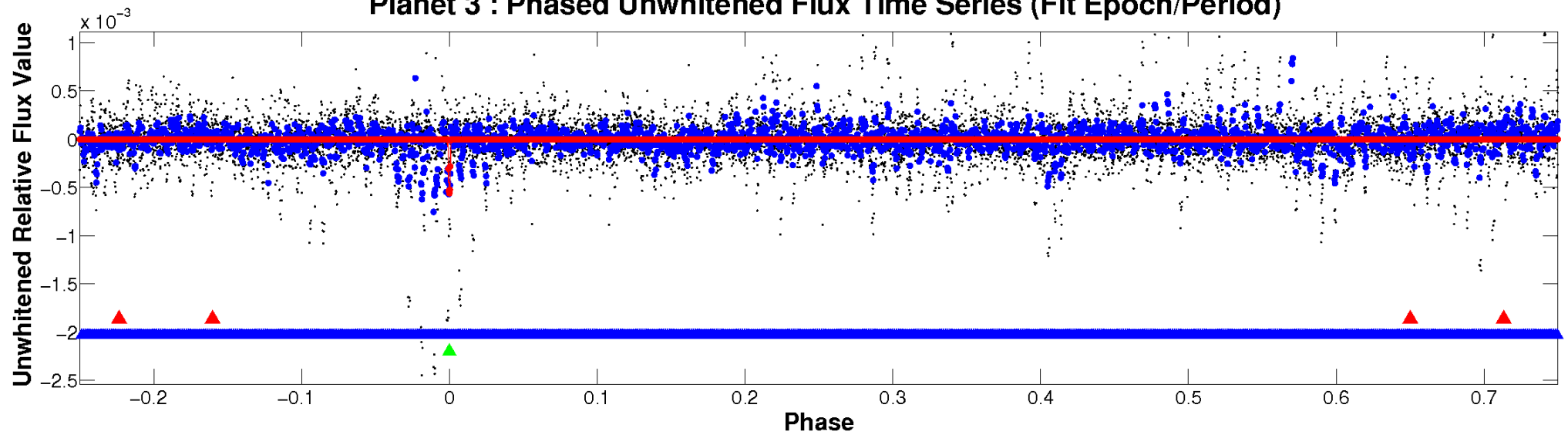
ALT Odd/Even

TCE 008263926-03

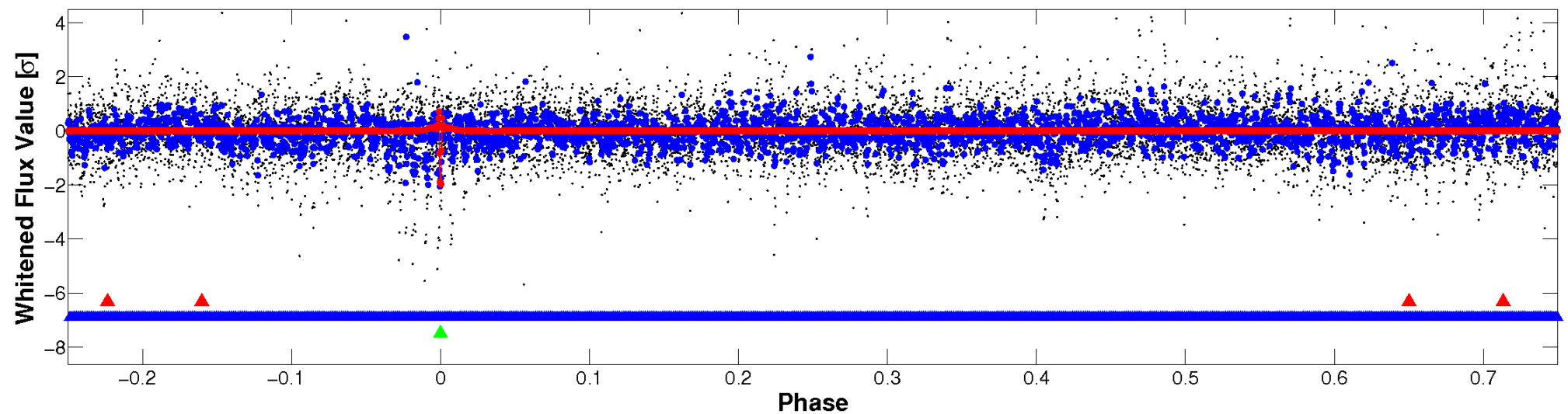


Non-Whitened Vs. Whitened Light Curve

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

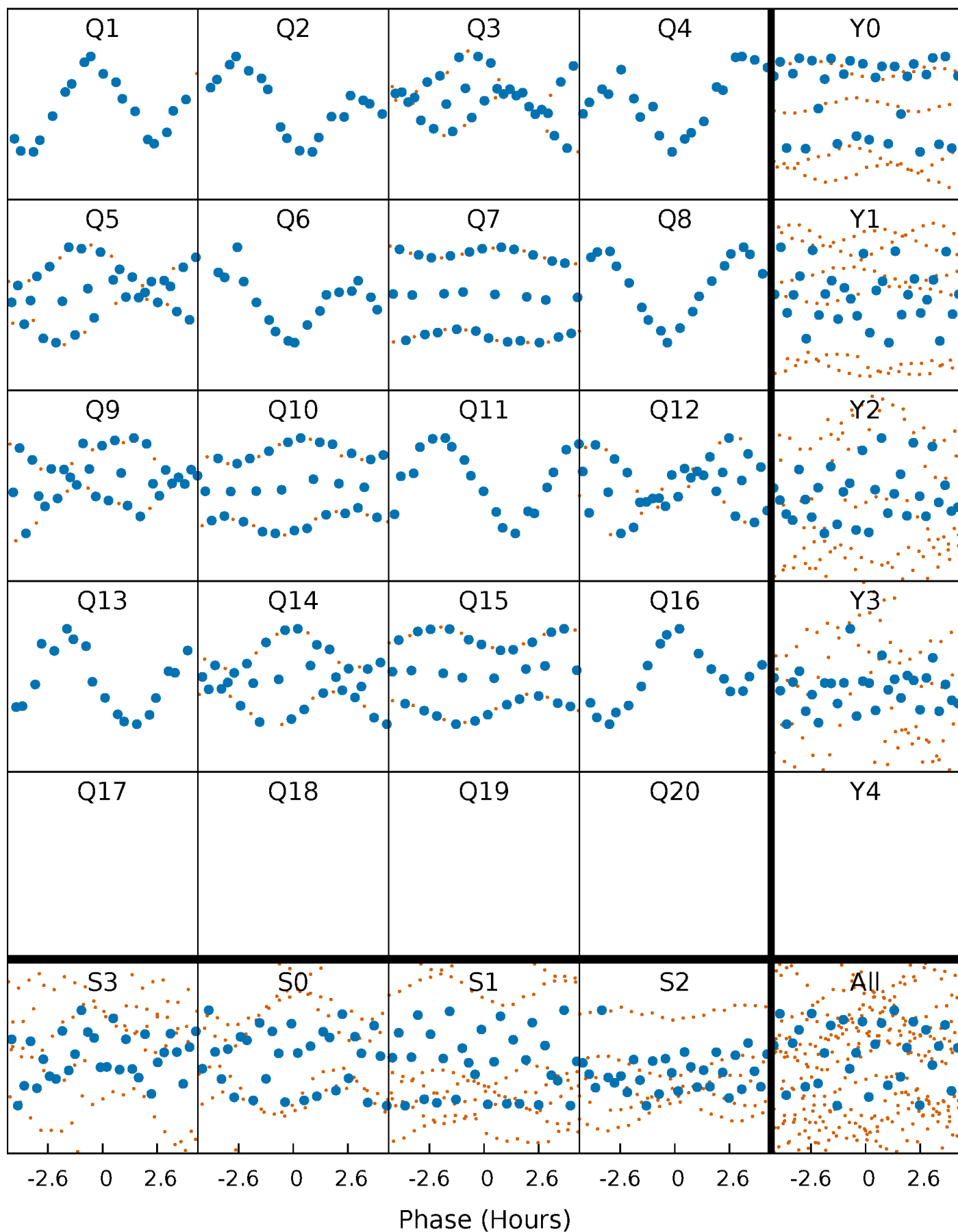


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



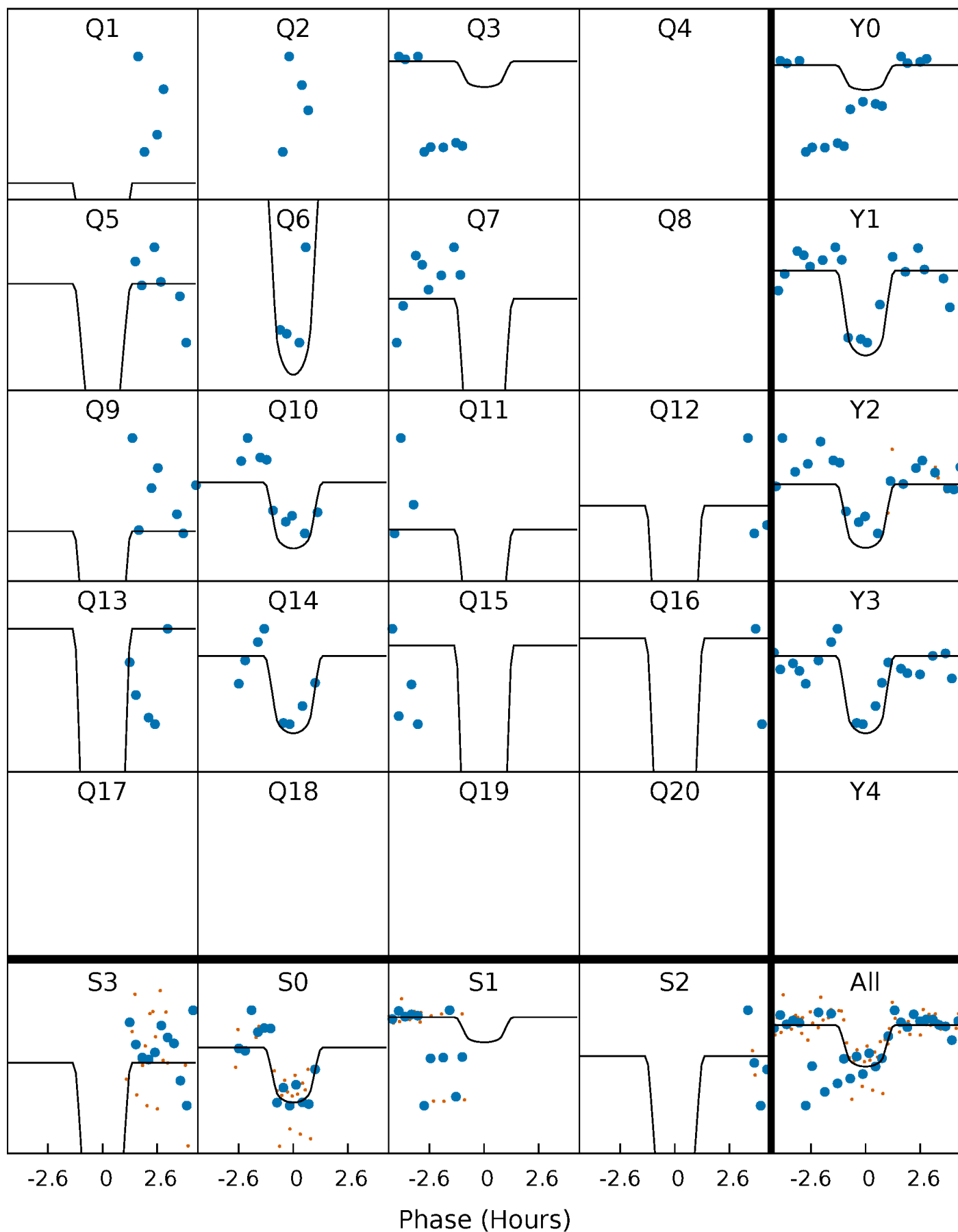
PDC Quarter-Phased Transit Curves

TCE 008263926-03 P= 59.370655 Days $T_0=157.031398$ (BKJD)



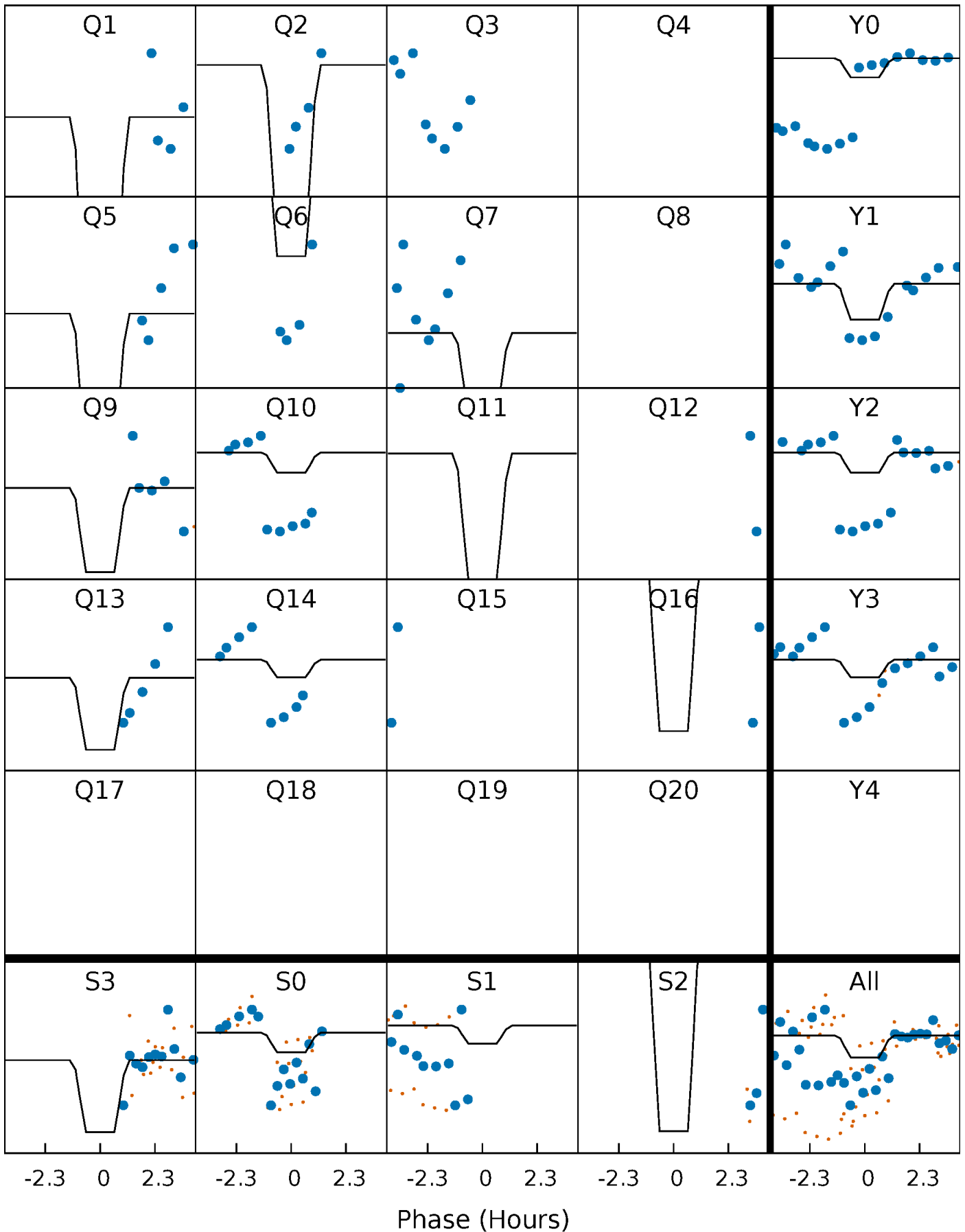
DV Quarter-Phased Transit Curves

TCE 008263926-03 P= 59.370655 Days $T_0=157.031398$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

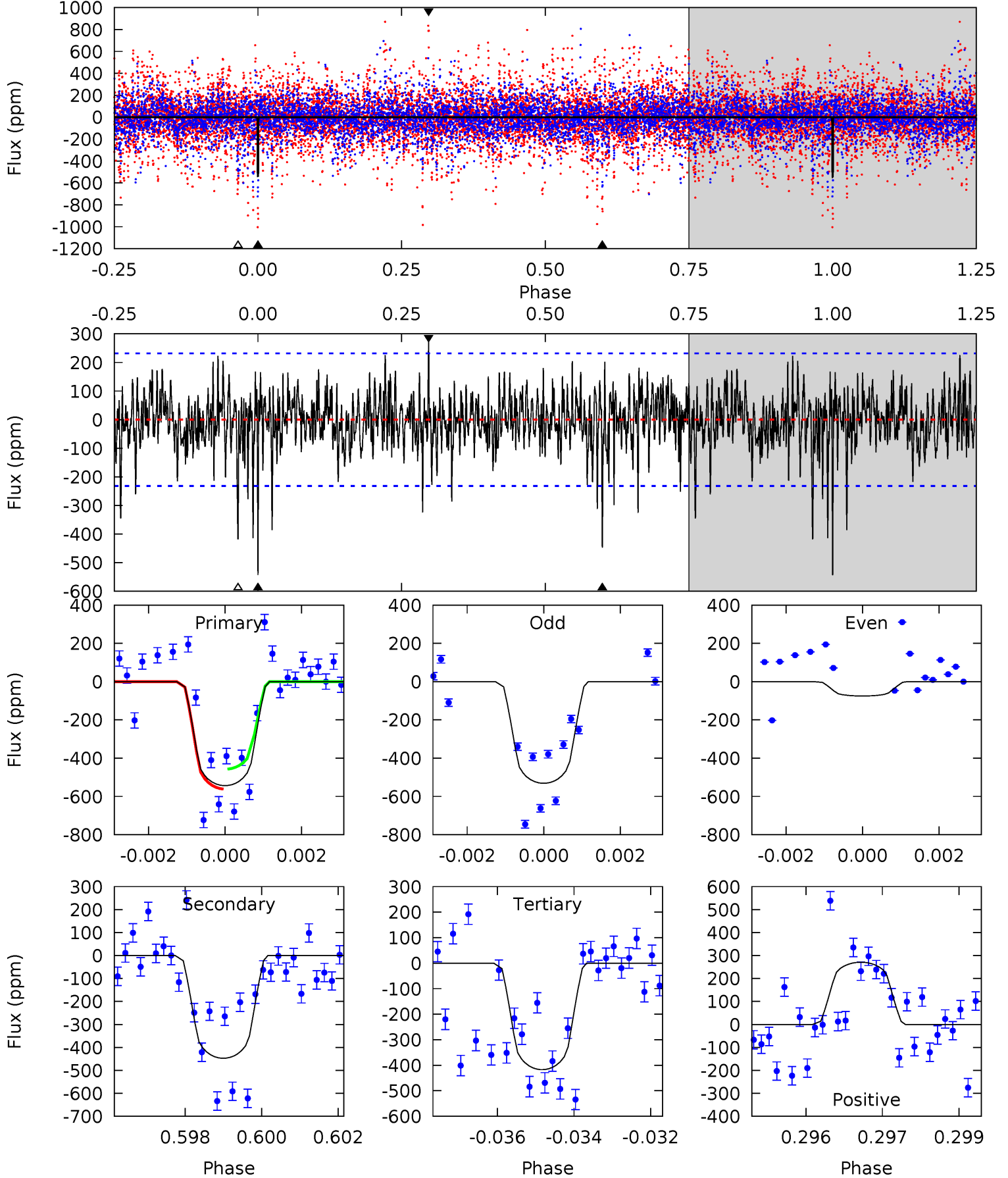
TCE 008263926-03 P= 59.372436 Days $T_0=157.011396$ (BKJD)



DV Model-Shift Uniqueness Test

008263926-03, P = 59.370655 Days, E = 97.660743 Days

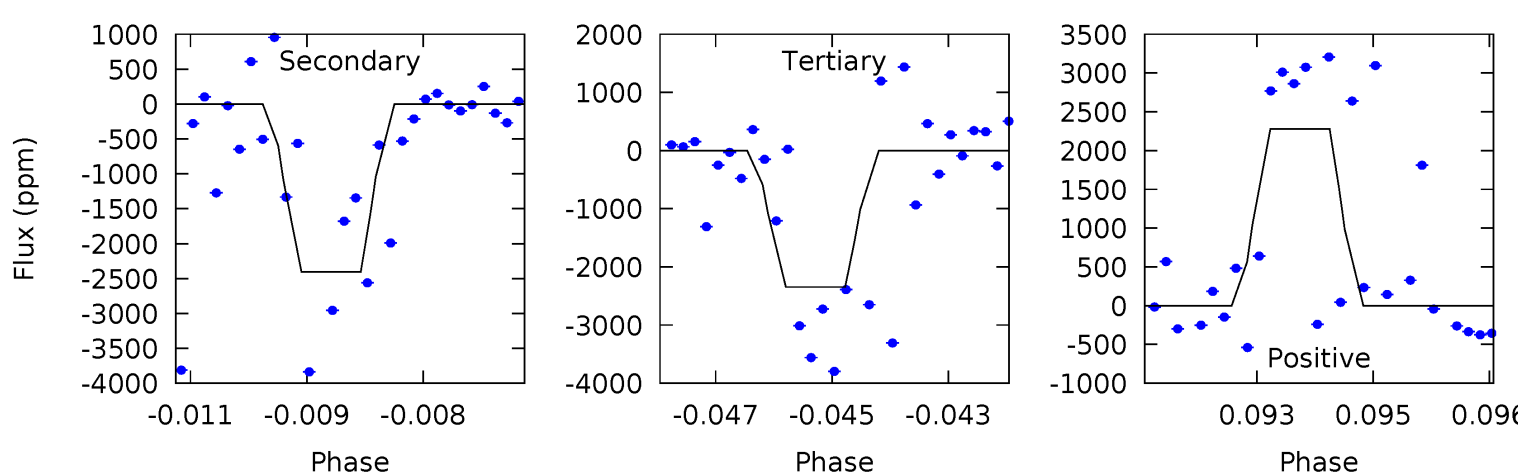
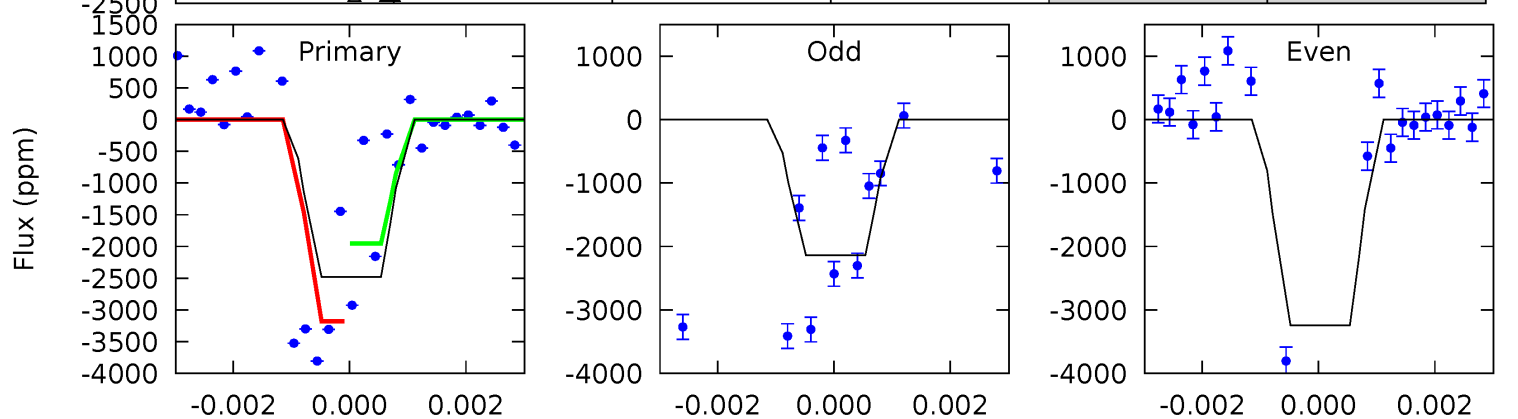
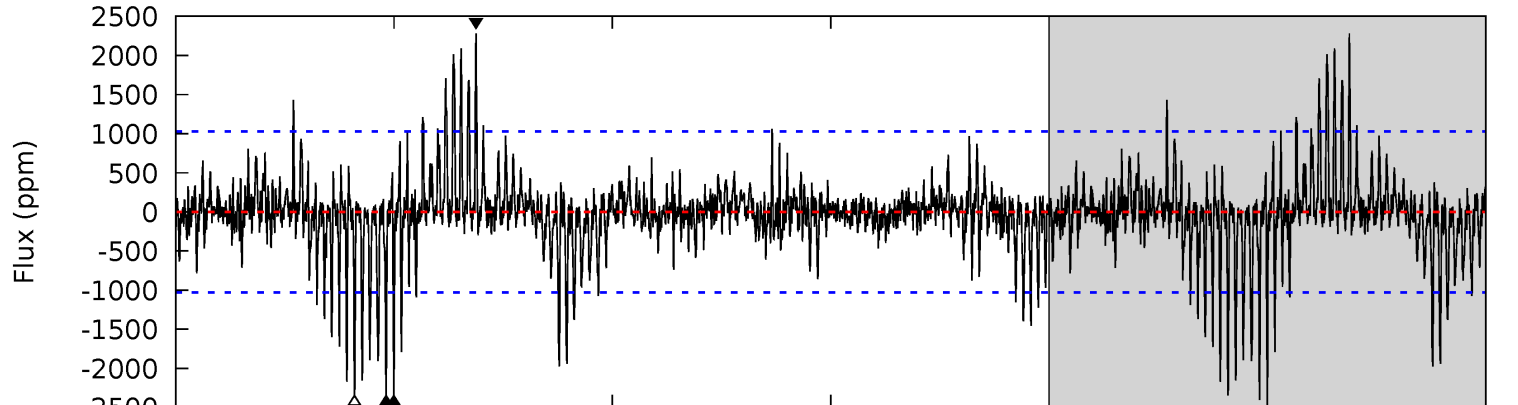
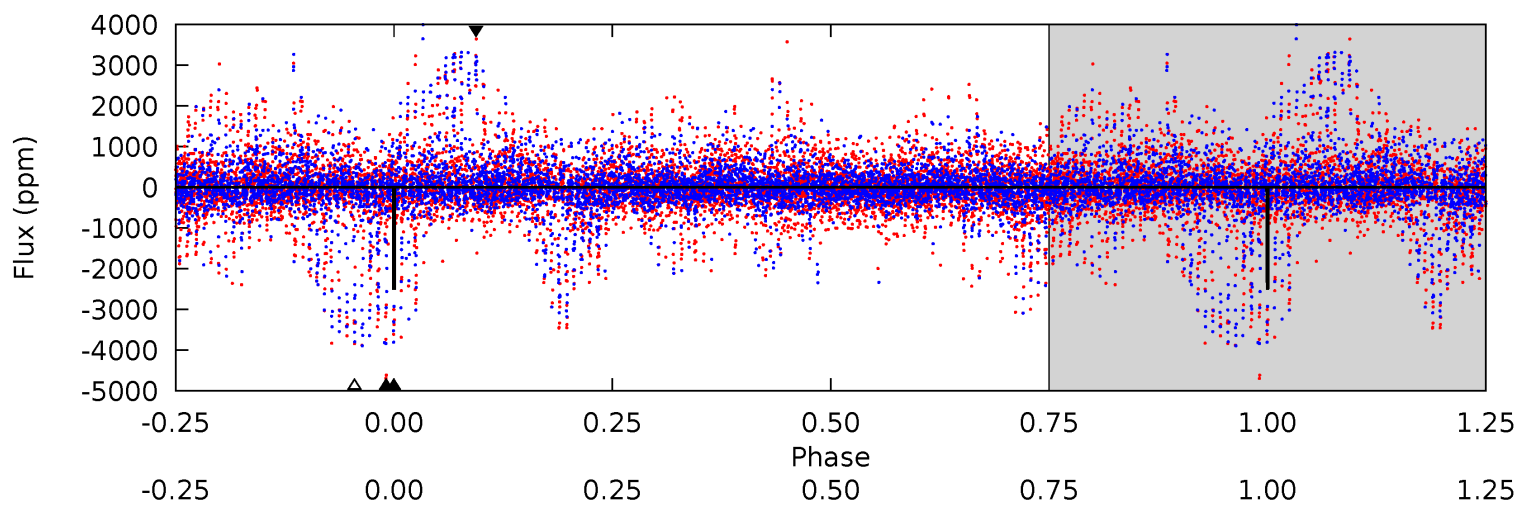
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	10.3	9.65	6.26	5.36	3.14	1.87	2.92	6.30	0.70	4.08	3.66	1.27	0.33	1.18



Alt Model-Shift Uniqueness Test

008263926-03, P = 59.372436 Days, E = 97.638960 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	12.6	12.2	11.9	5.37	3.16	1.94	0.71	1.07	0.30	0.66	1.84	0.91	0.48	3.16



Stellar Parameters For KIC 008263926

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5804^{+158}_{-158}	$3.889^{+0.504}_{-0.126}$	$-0.080^{+0.300}_{-0.300}$	$2.012^{+0.419}_{-0.978}$	$1.144^{+0.140}_{-0.240}$	$0.198^{+1.031}_{-0.072}$
	+3%/-3%	+13%/-3%	+375%/-375%	+21%/-49%	+12%/-21%	+521%/-36%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 008263926-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-447 ± 43	$5.79^{+4.77}_{-3.83}$	888^{+65}_{-112}	4993^{+3759}_{-987}	726^{+5251}_{-518}
Alt.	-2404 ± 192	$6.60^{+5.48}_{-4.01}$	888^{+64}_{-118}	6945^{+5914}_{-1585}	3030^{+15361}_{-2165}

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 $A_{obs} \gg 1.0$

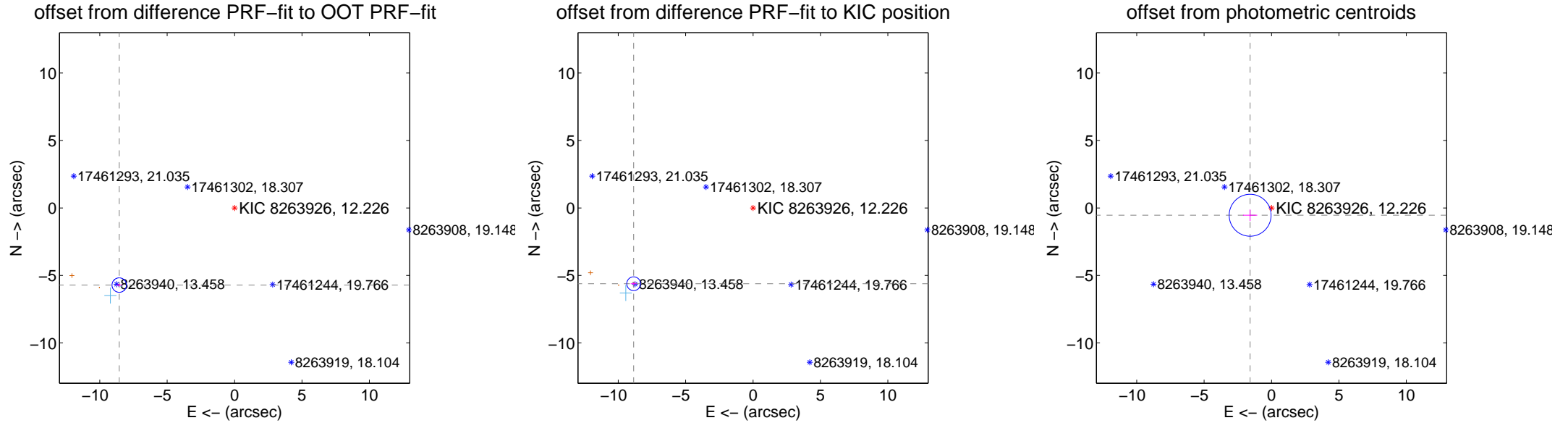
DV Centroid Data

Supplemental centroid analysis for 008263926-03. Kepler magnitude: 12.23. Transit SNR 7.47

There are 8 quarters with good PRF difference image offsets

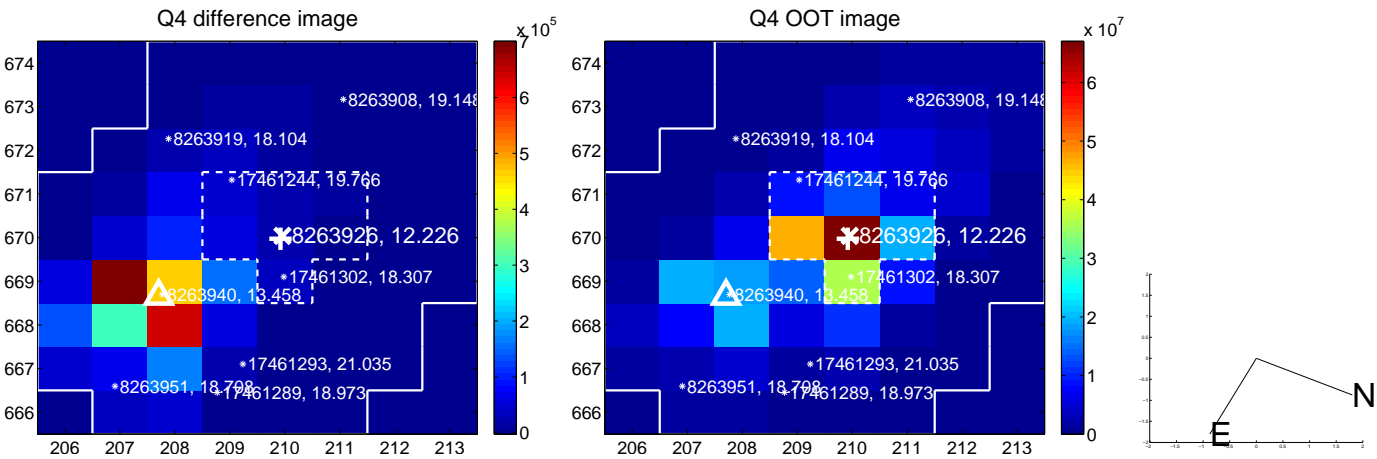
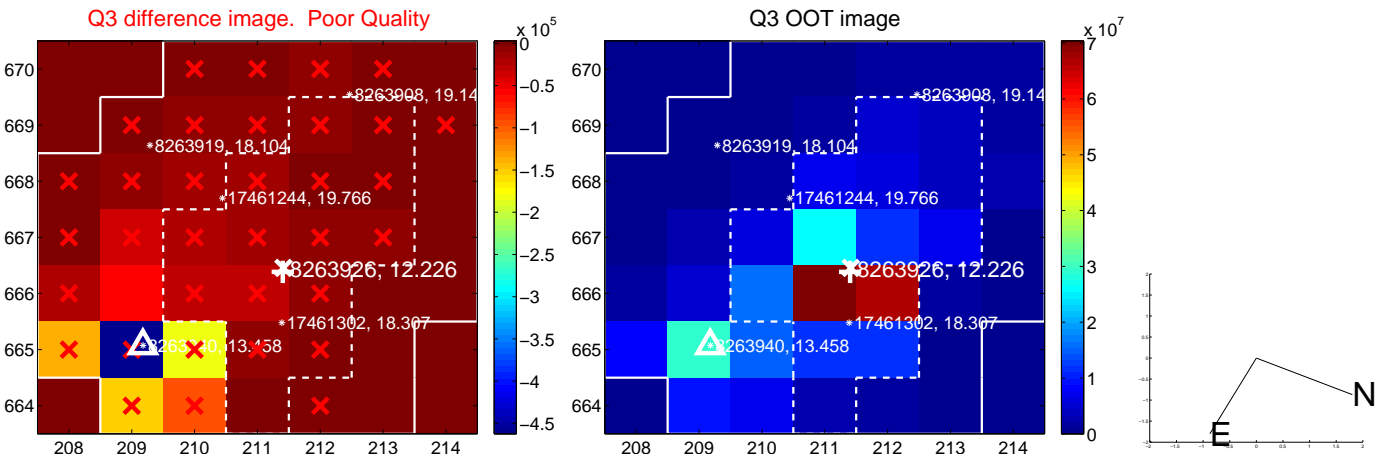
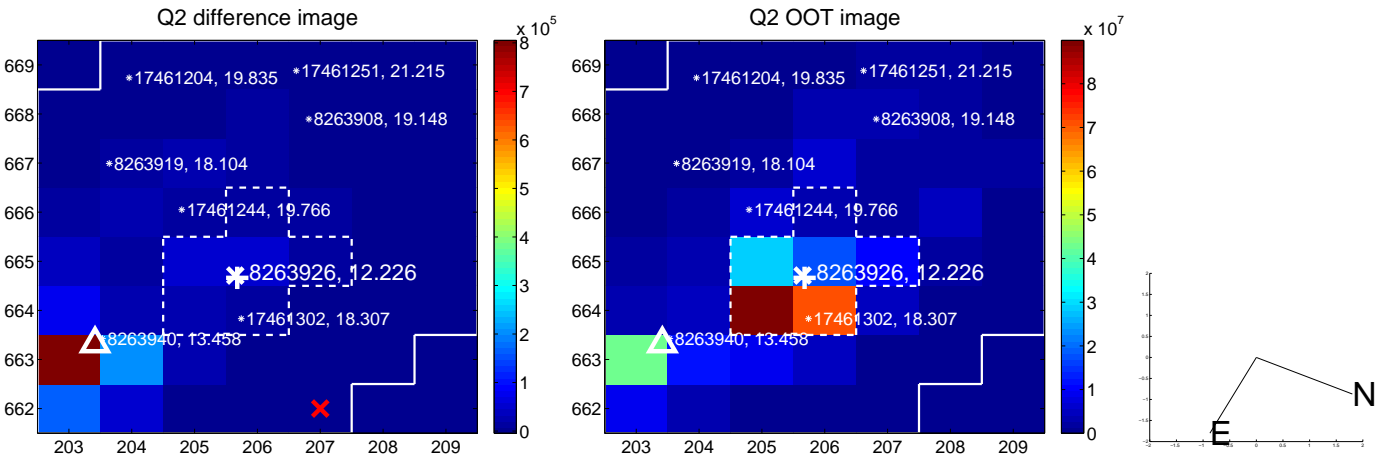
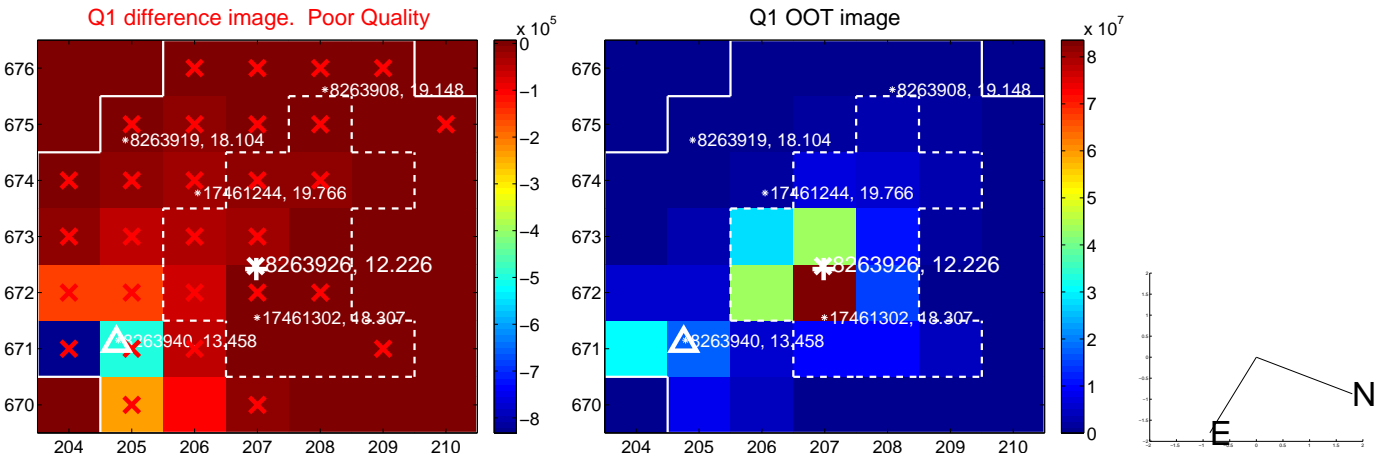
The direct PRF centroid is offset from the target star catalog position by about 0.35 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	10.288 \pm 0.179	57.59	8.555 \pm 0.227	-5.715 \pm 0.095
PRF-fit source offset from KIC position	10.485 \pm 0.170	61.66	8.856 \pm 0.217	-5.614 \pm 0.097
photometric centroid source offset	1.68 \pm 0.52	3.23	1.59 \pm 0.53	-0.54 \pm 0.43

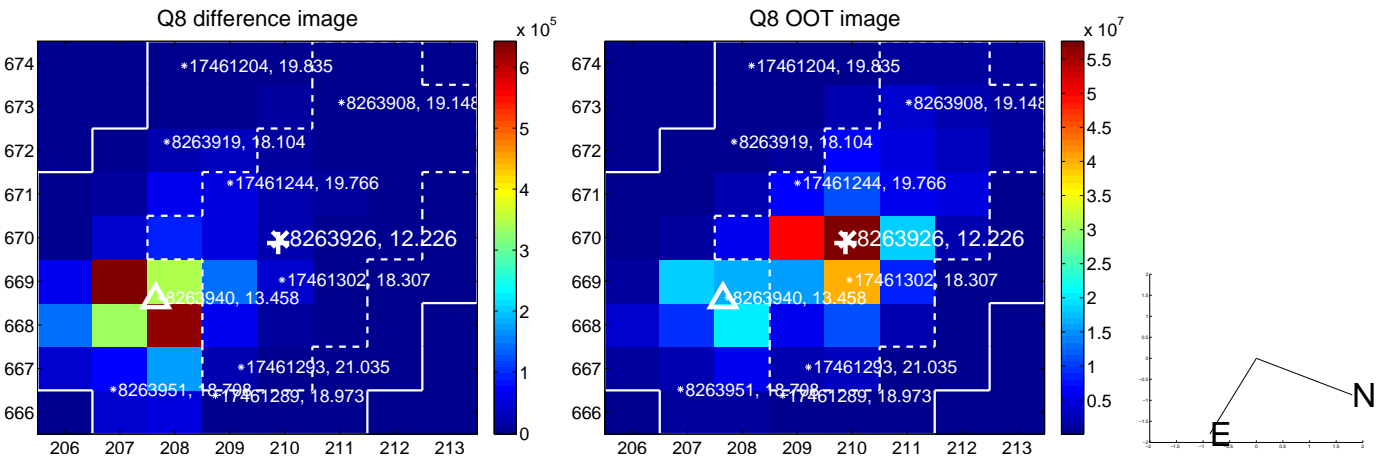
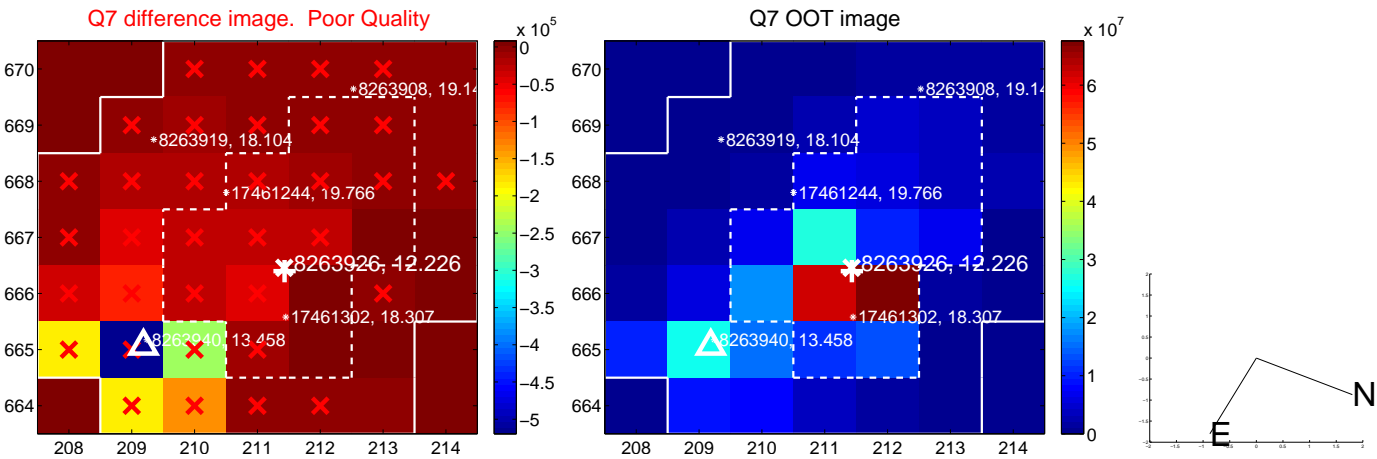
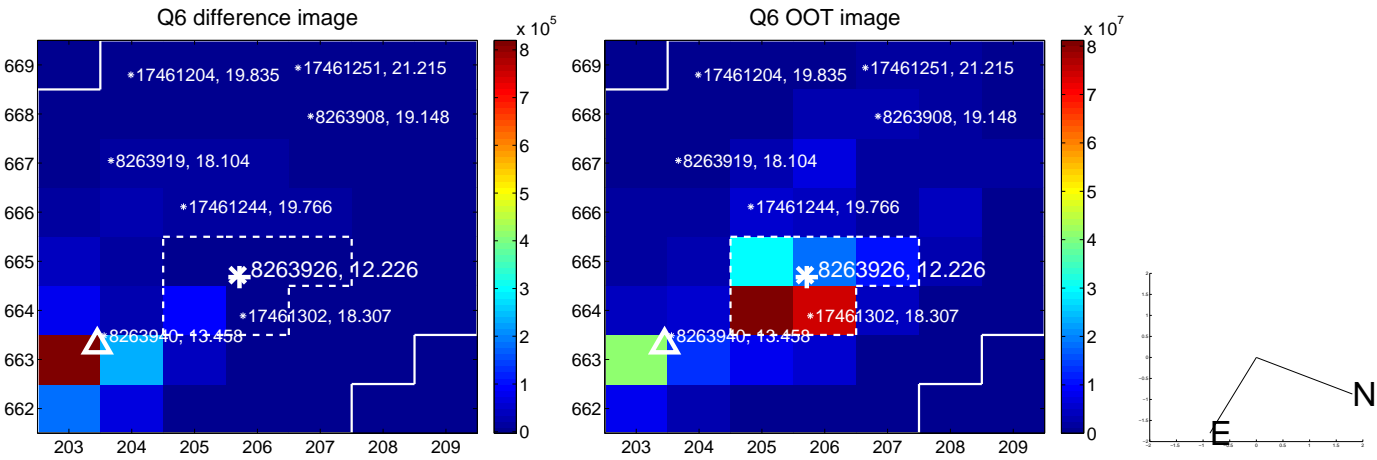
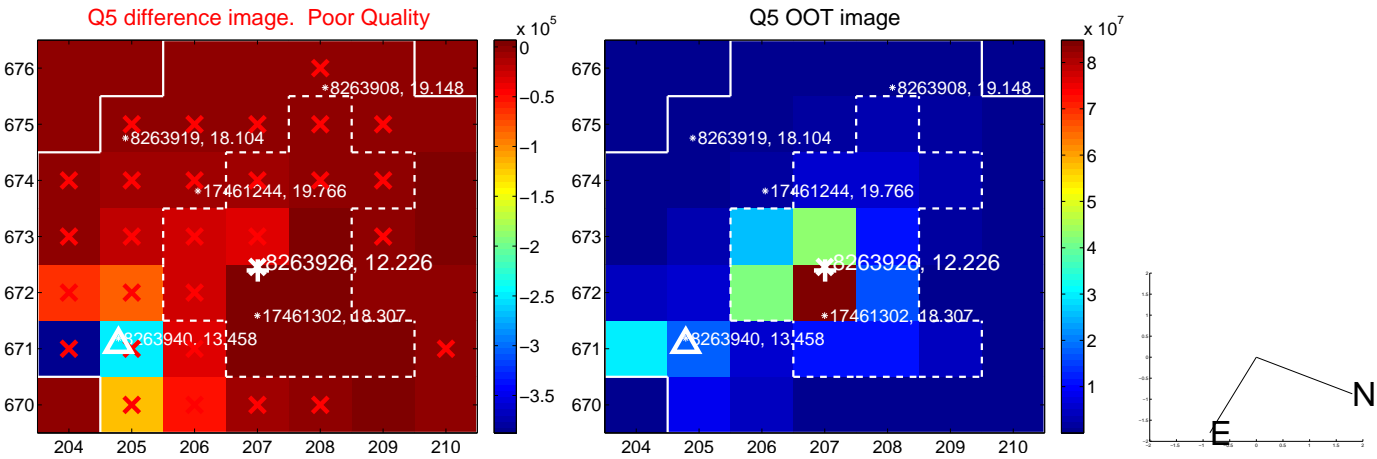


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

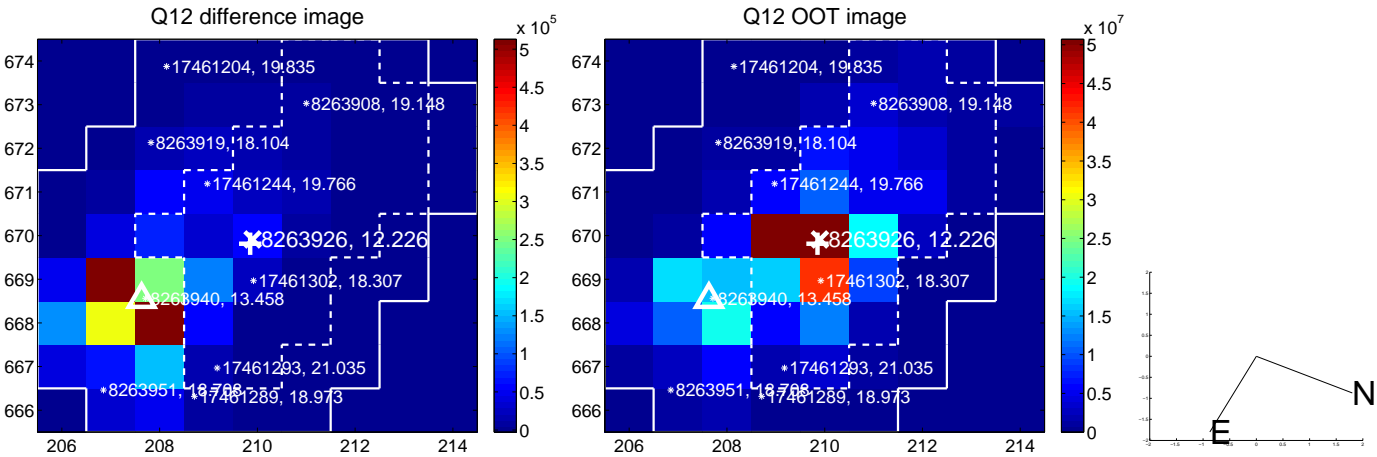
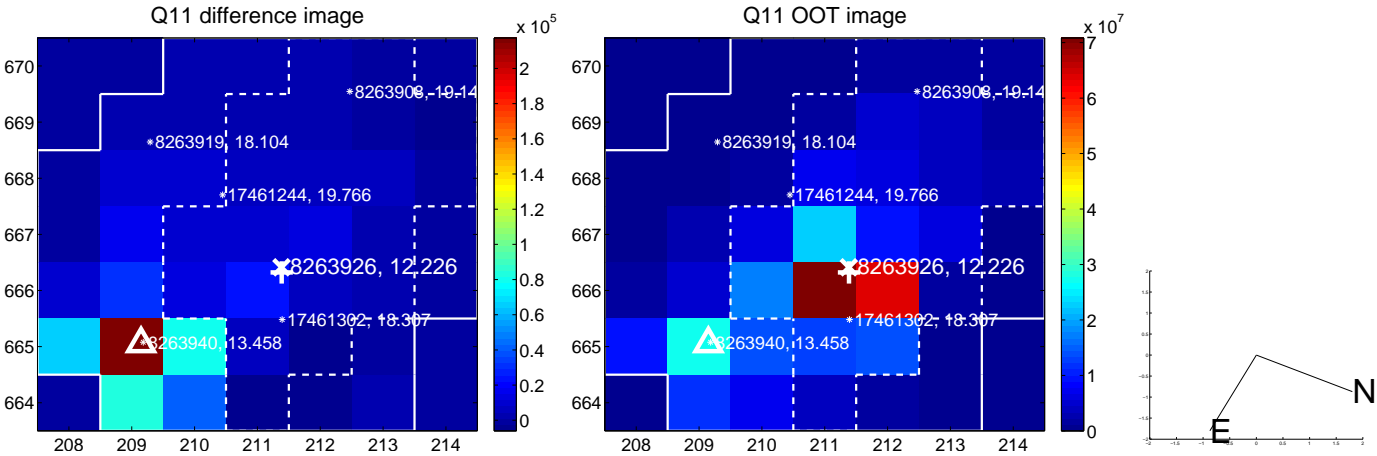
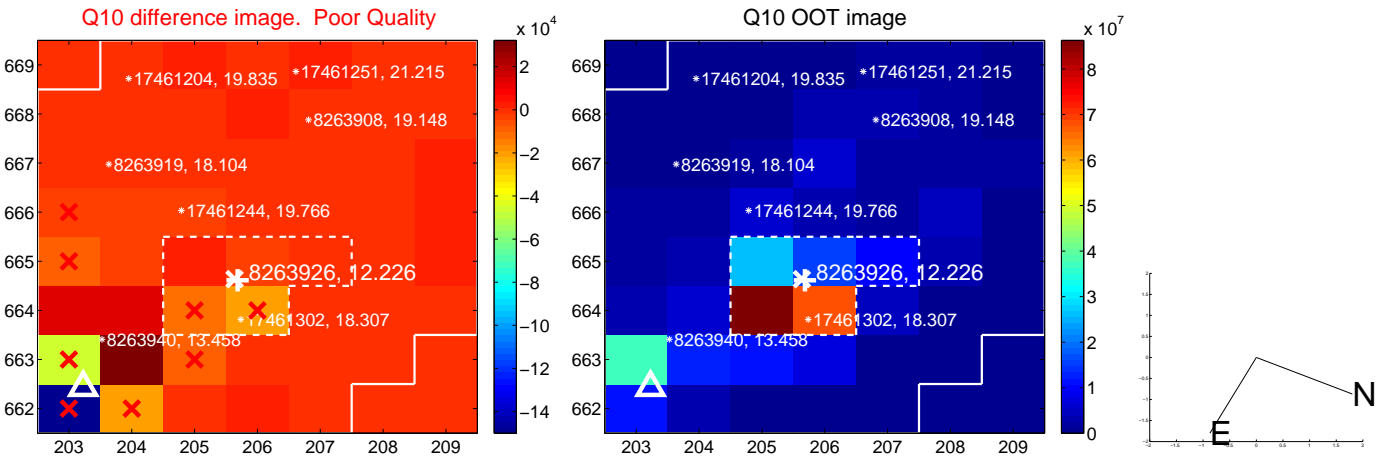
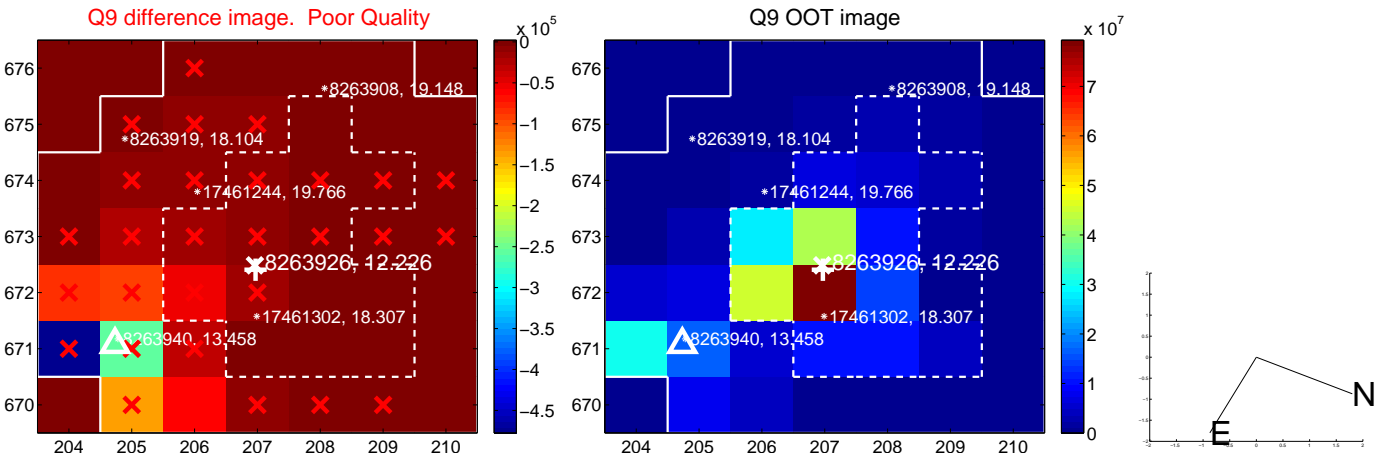
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



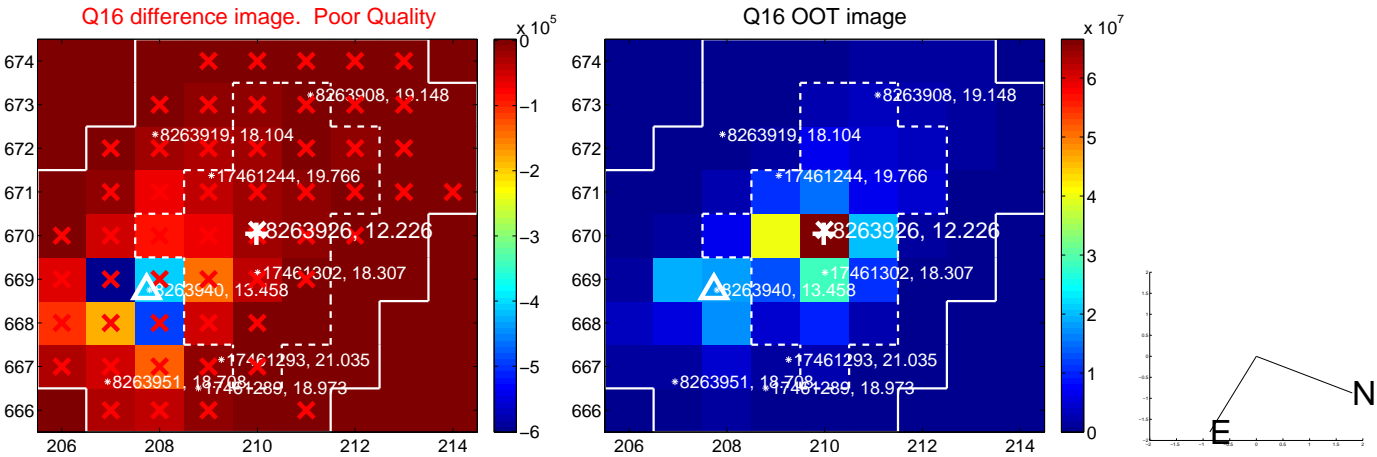
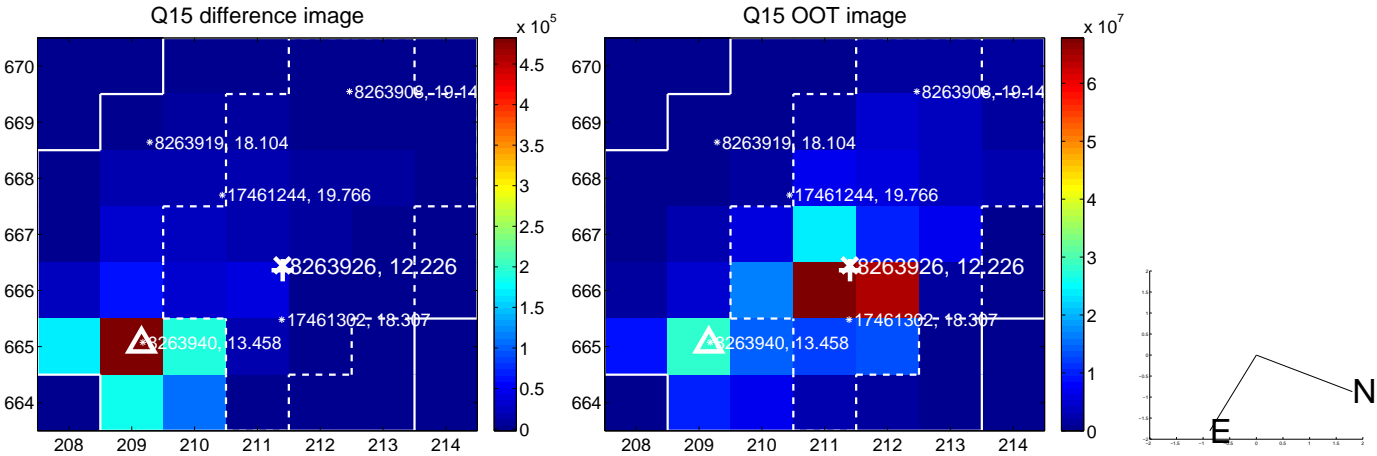
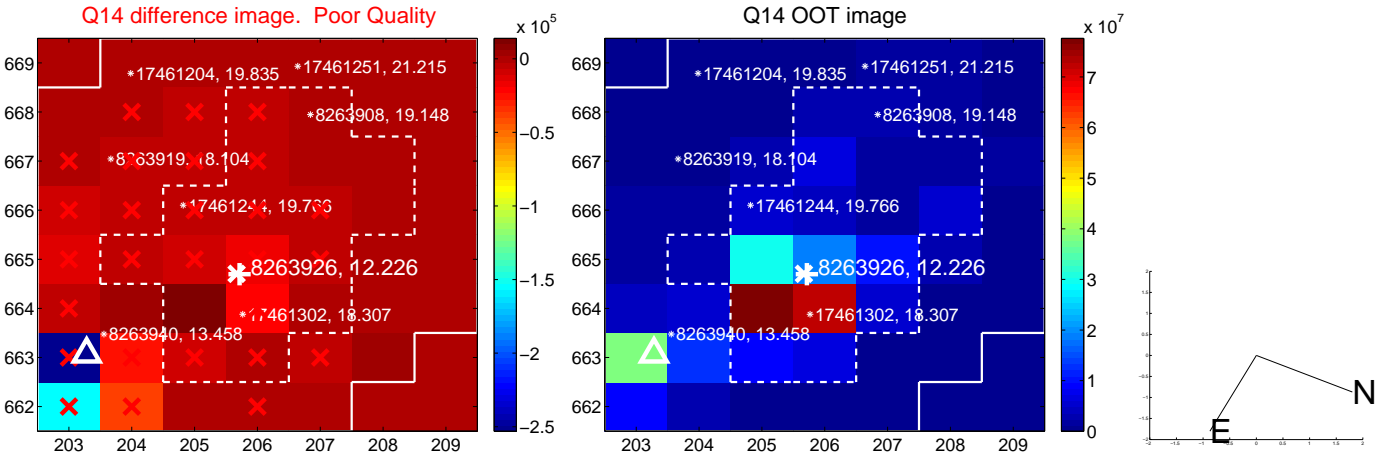
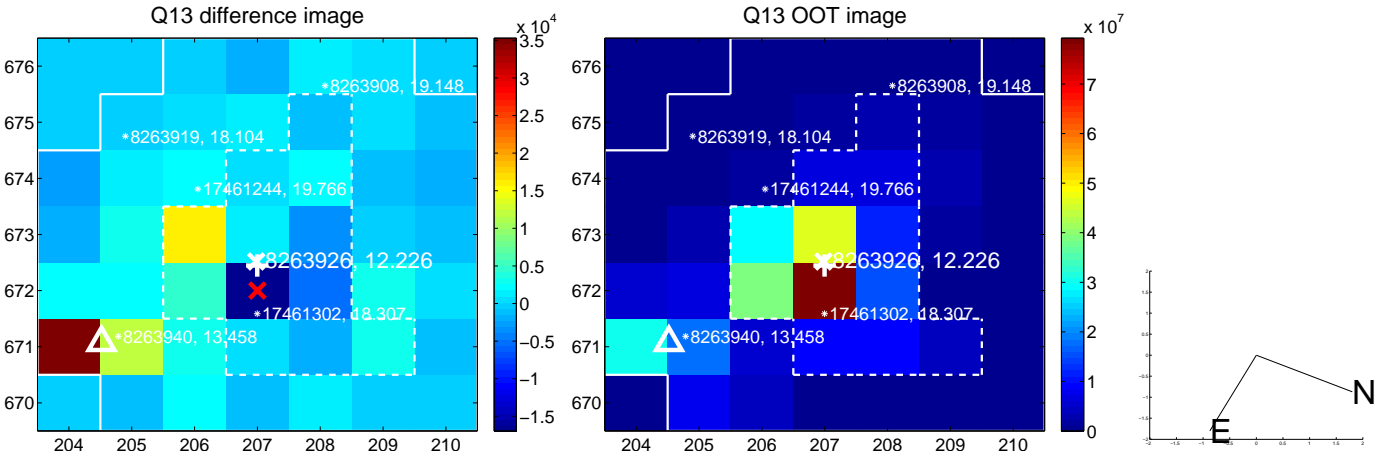
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



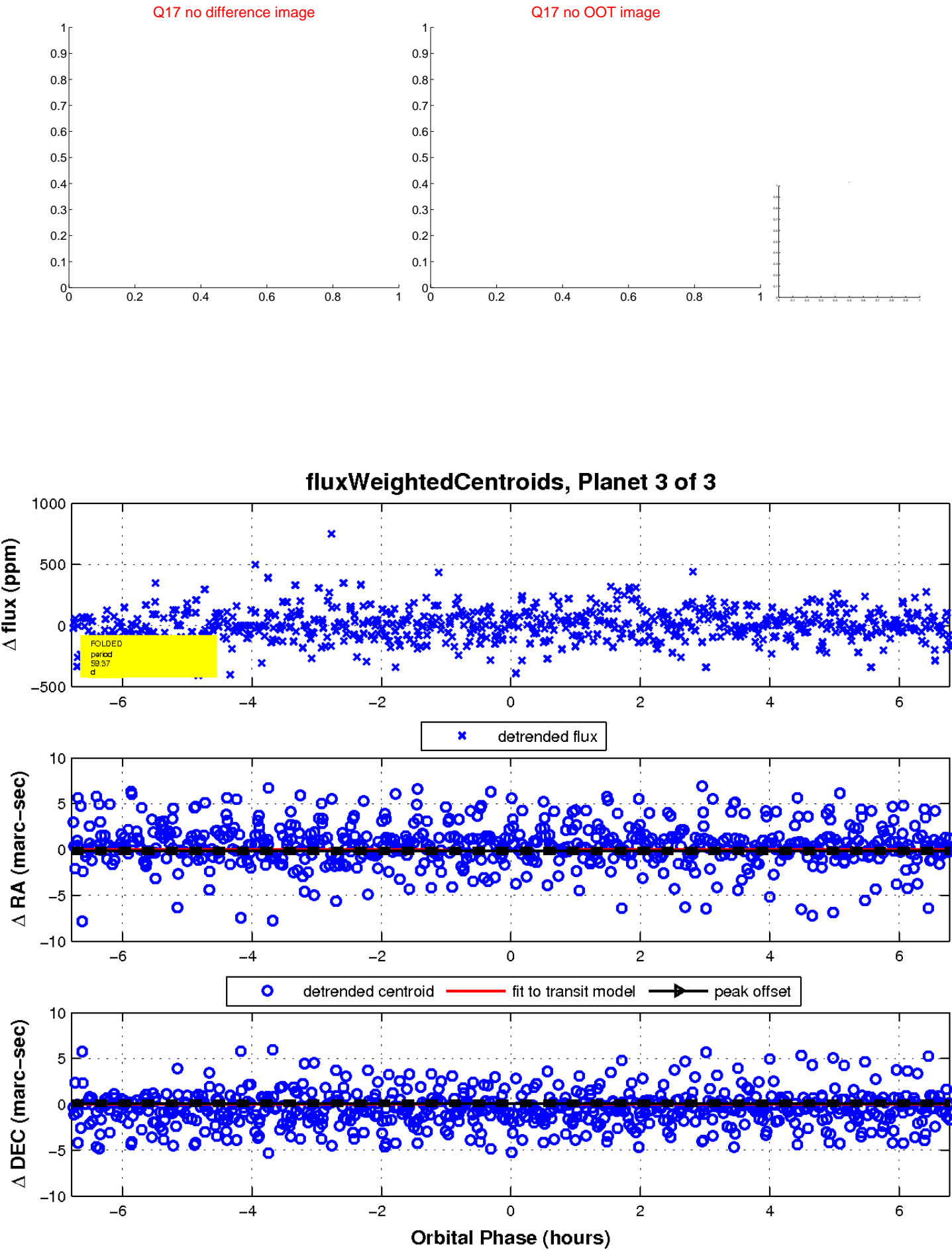
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

