

KIC 007292626

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})
007292626-01	OBS	No	204.786260	250.923054	122502.0	0.834	944.9	465.1	0.99	6389	38.87	3.08
007292626-02	OBS	No	250.212835	219.951249	760.7	12.337	110.1	6.5	0.99	6389	3.81	2.36
007292626-03	OBS	No	397.940188	197.045266	165.2	12.313	60.2	2.4	0.99	6389	1.42	1.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007292626-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_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_DIFFS—HALO_GHOST
007292626-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007292626-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

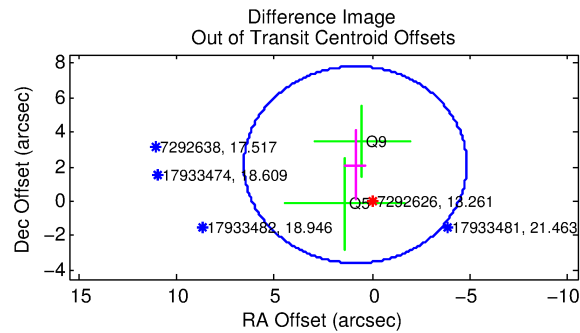
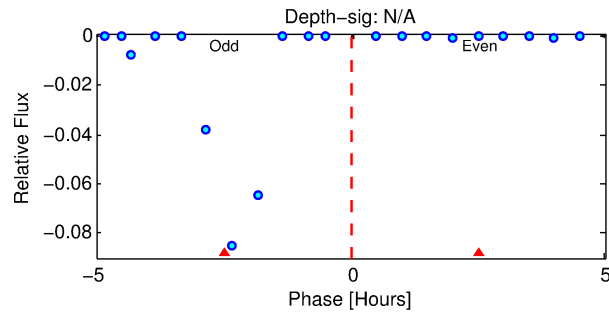
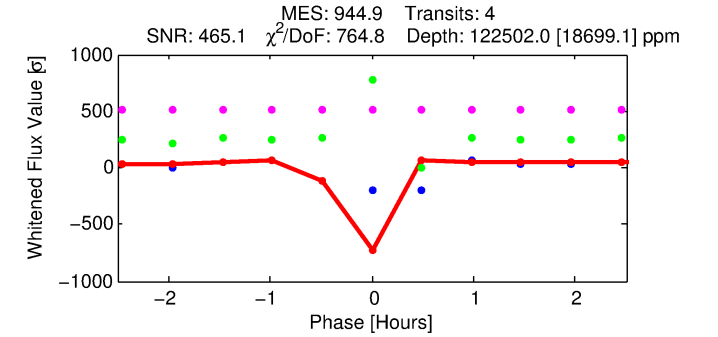
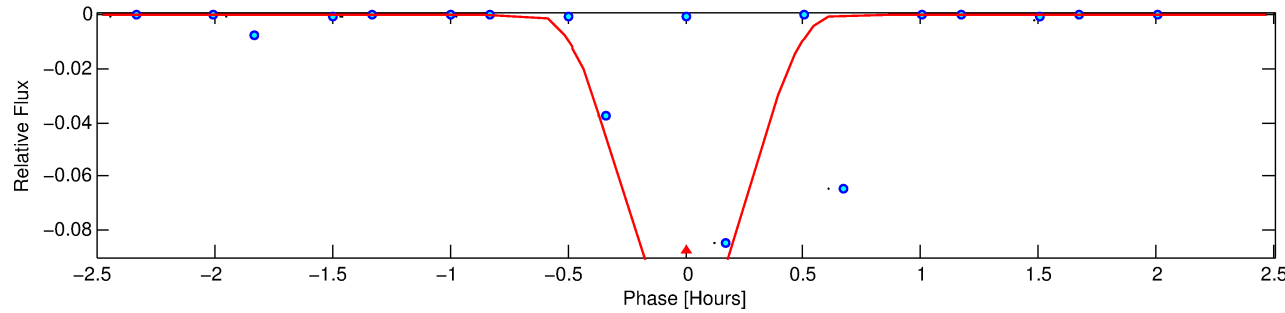
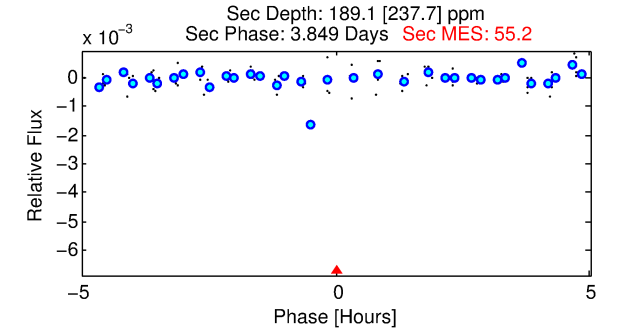
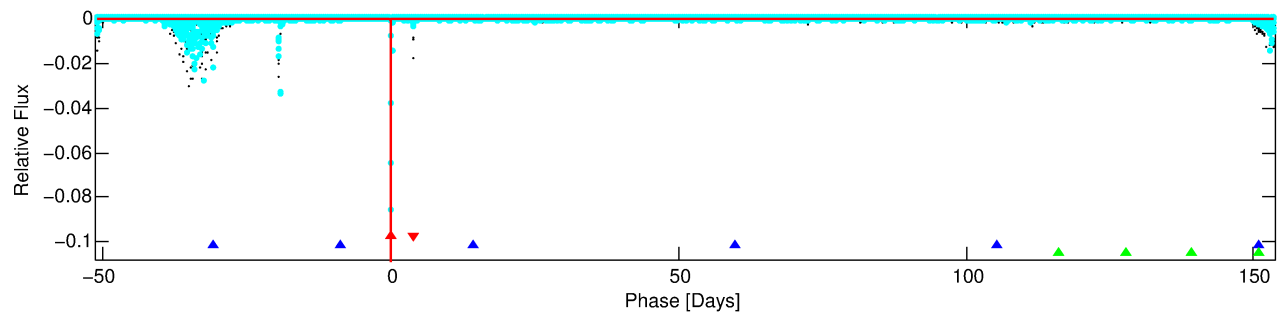
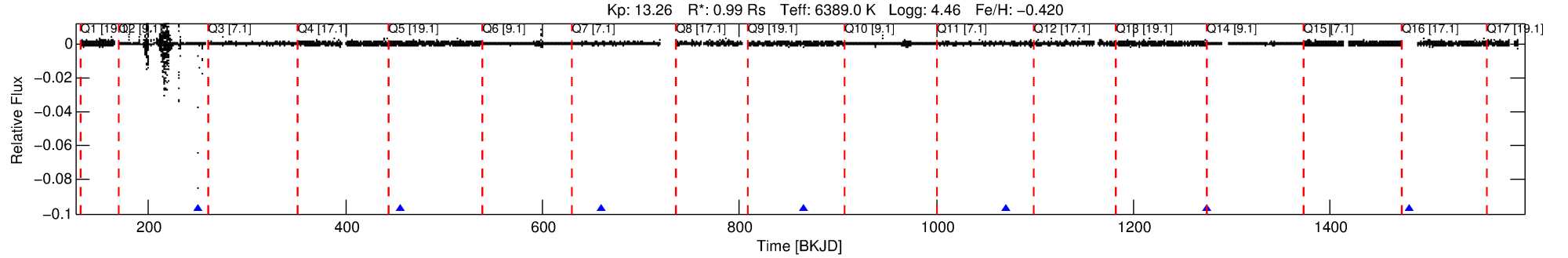
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007292626-01

No Significant Match Found

DV One-Page Summary

KIC: 7292626 Candidate: 1 of 3 Period: 204.786 d



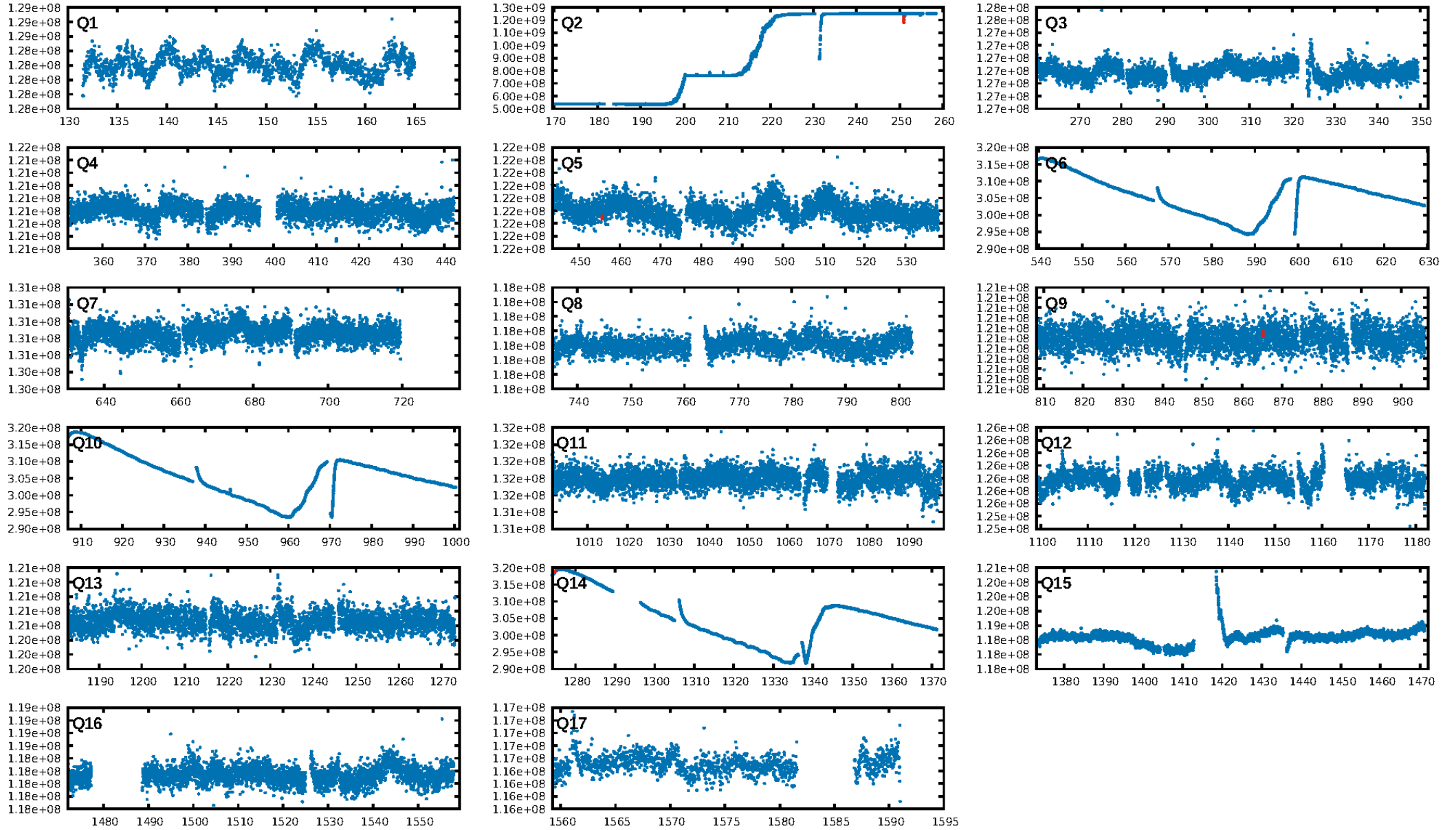
DV Fit Results:

Period = 204.78626 [0.00144] d
Epoch = 250.9231 [0.0055] BKJD
Rp/R* = 0.3606 [0.3800]
a/R* = 2345.69 [3235.35]
b = 0.54 [2.98]
Seff = 3.08 [1.28]
Teq = 338 [35] K
Rp = 38.87 [42.89] Re
a = 0.6877 [0.1883] AU
Ag = 32.56 [80.95] [0.39] σ
Teffp = 1248 [766] K [1.19] σ

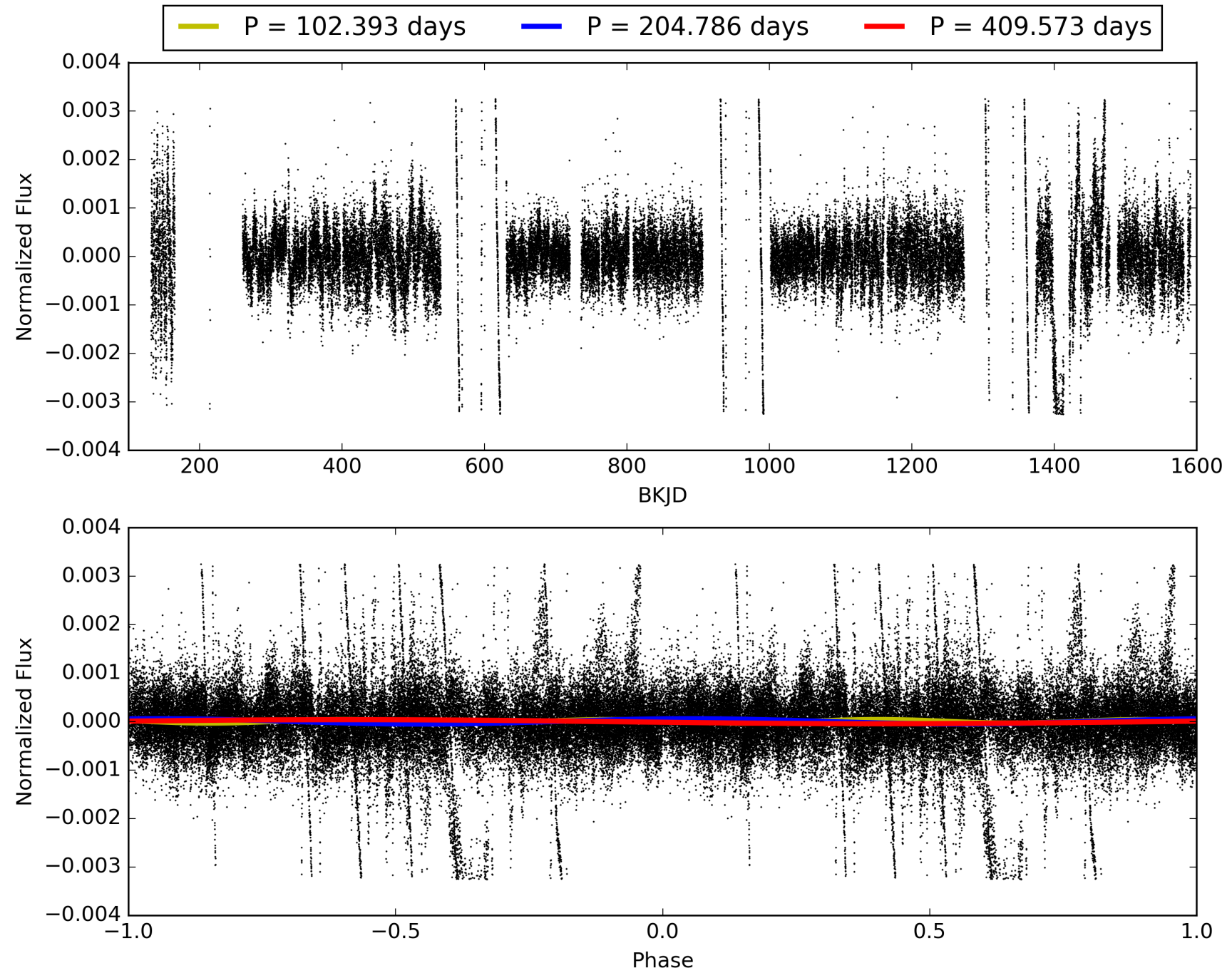
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [88.17] σ
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.02321
Centroid-sig: 19.9%
Centroid-so: 0.974 arcsec [754.34] σ
OotOffset-rm: 2.277 arcsec [1.20] σ
KicOffset-rm: 2.039 arcsec [1.05] σ
OotOffset-st: 0/0/0/2 [2]
KicOffset-st: 0/0/0/2 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 007292626-01, PDC Light Curves

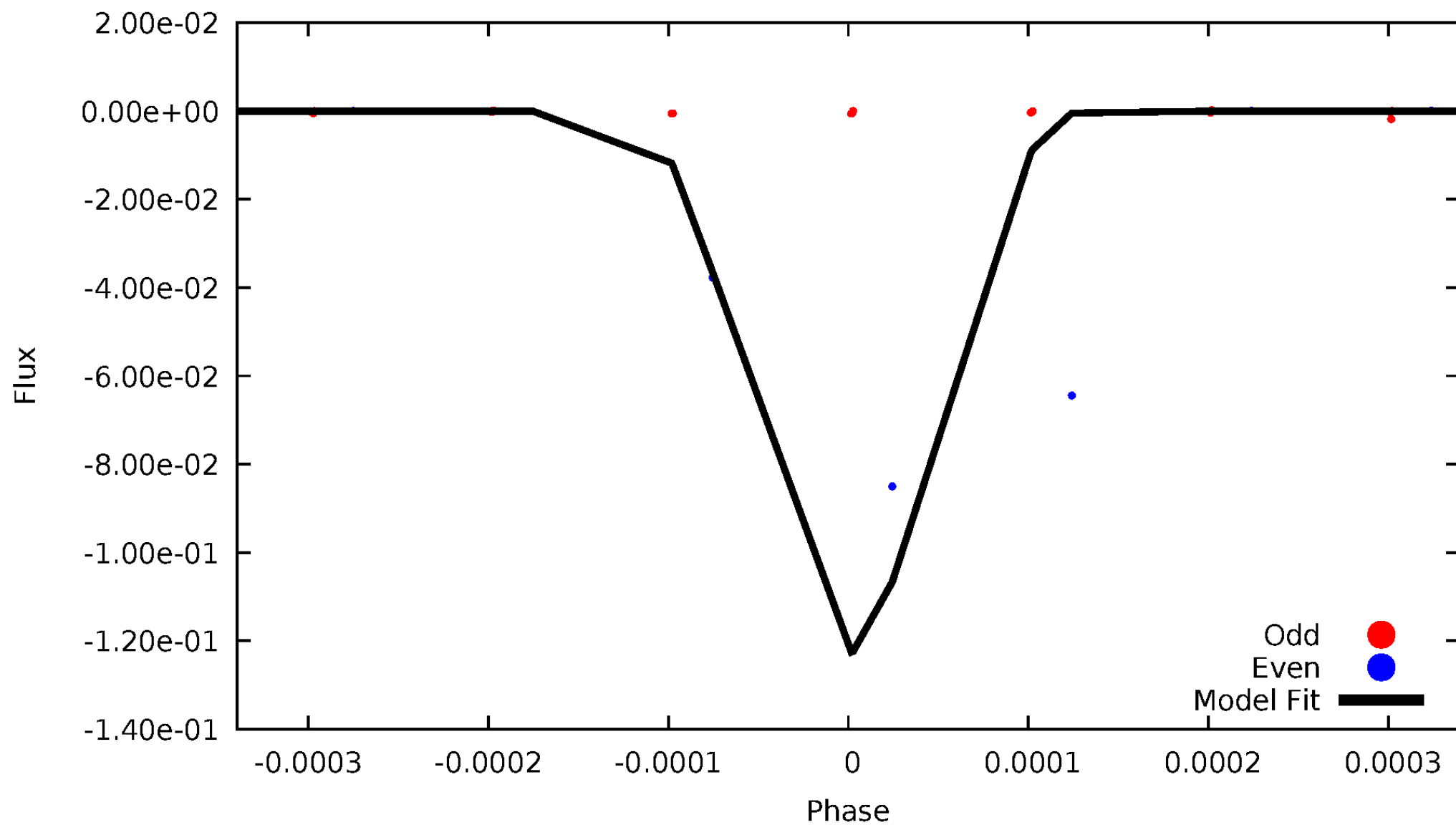


TCE 007292626-01



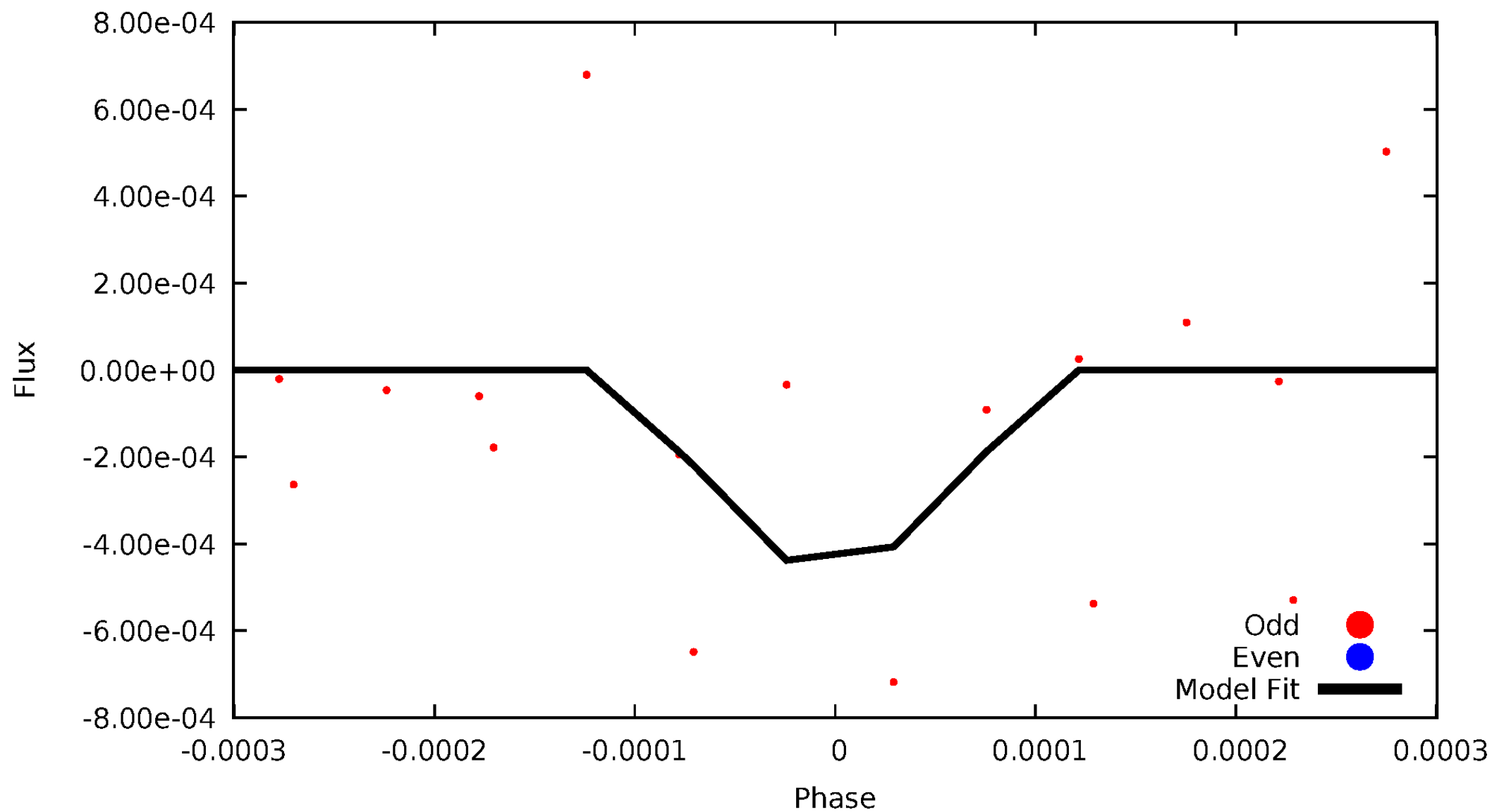
DV Odd/Even

TCE 007292626-01



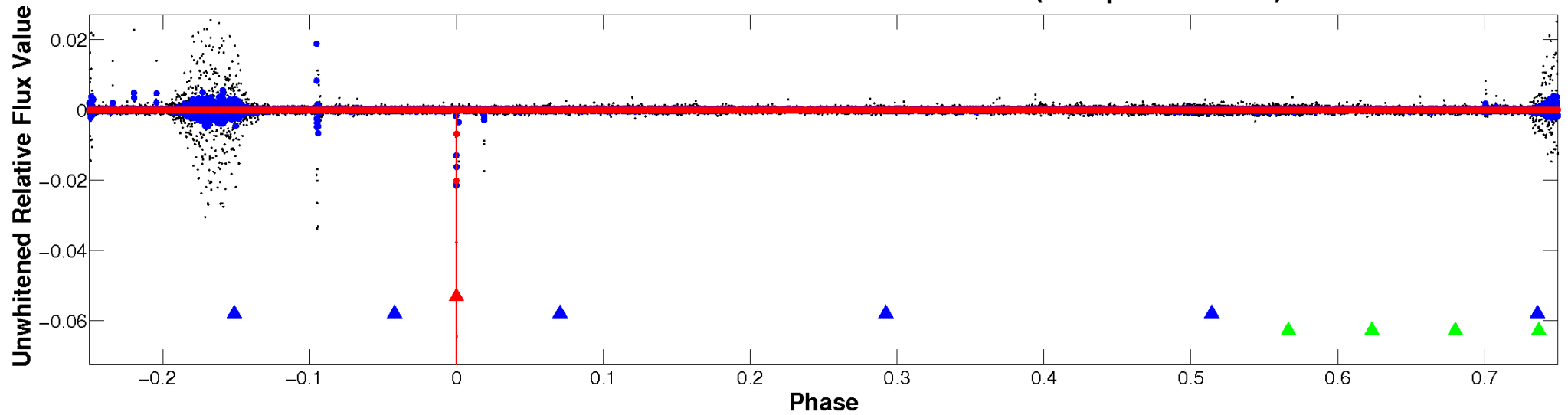
ALT Odd/Even

TCE 007292626-01

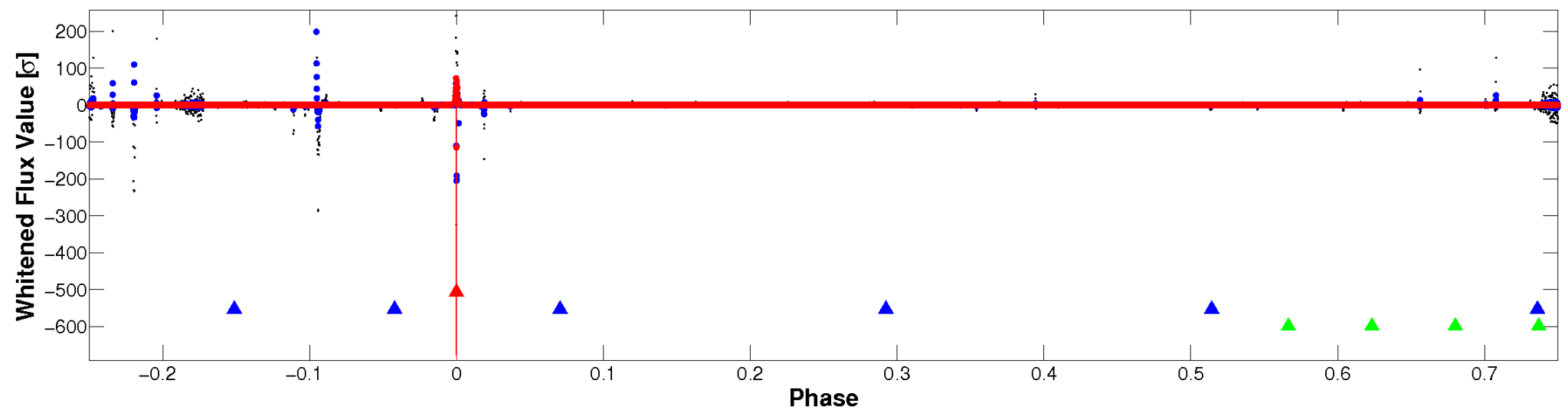


Non-Whitened Vs. Whitened Light Curve

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

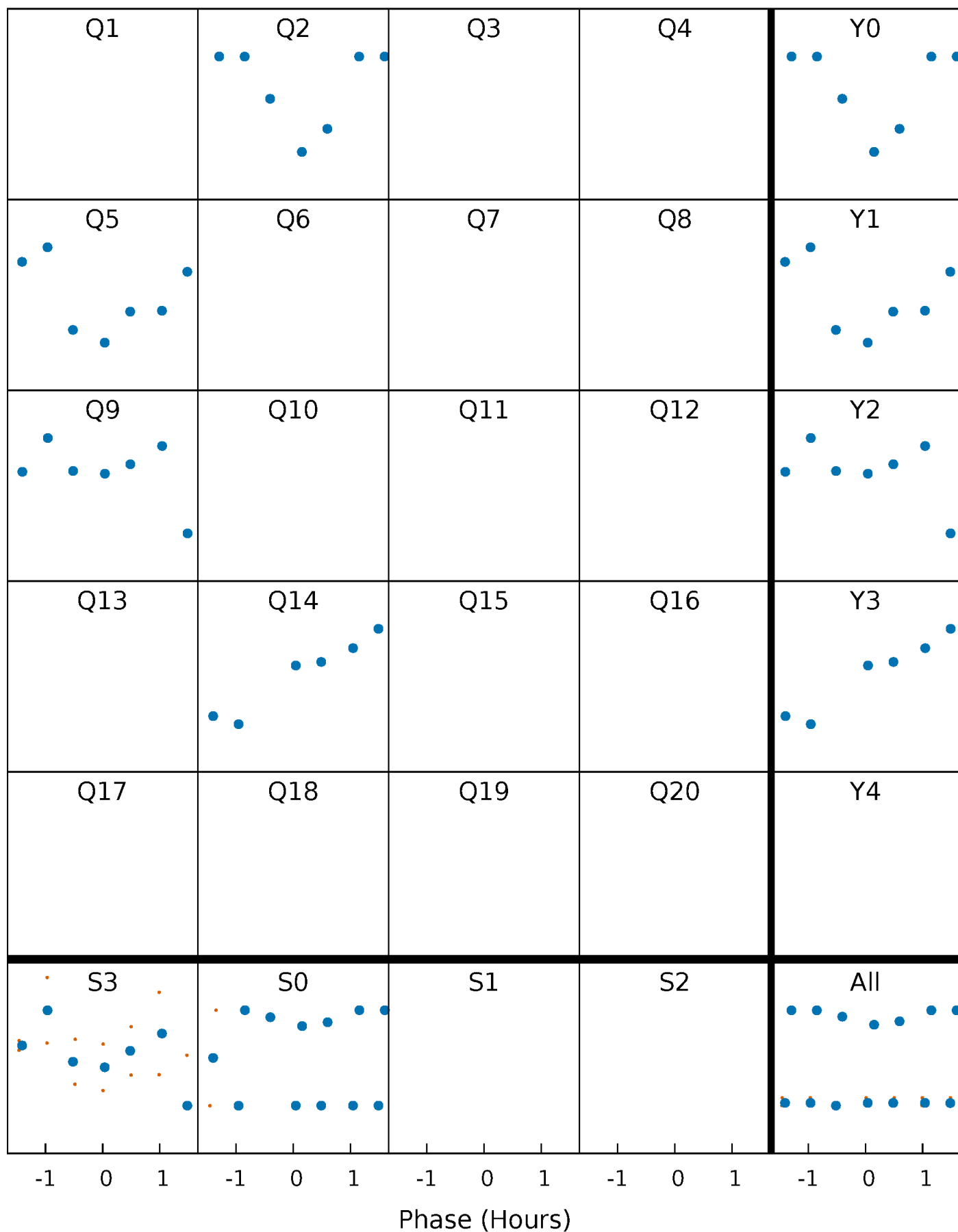


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



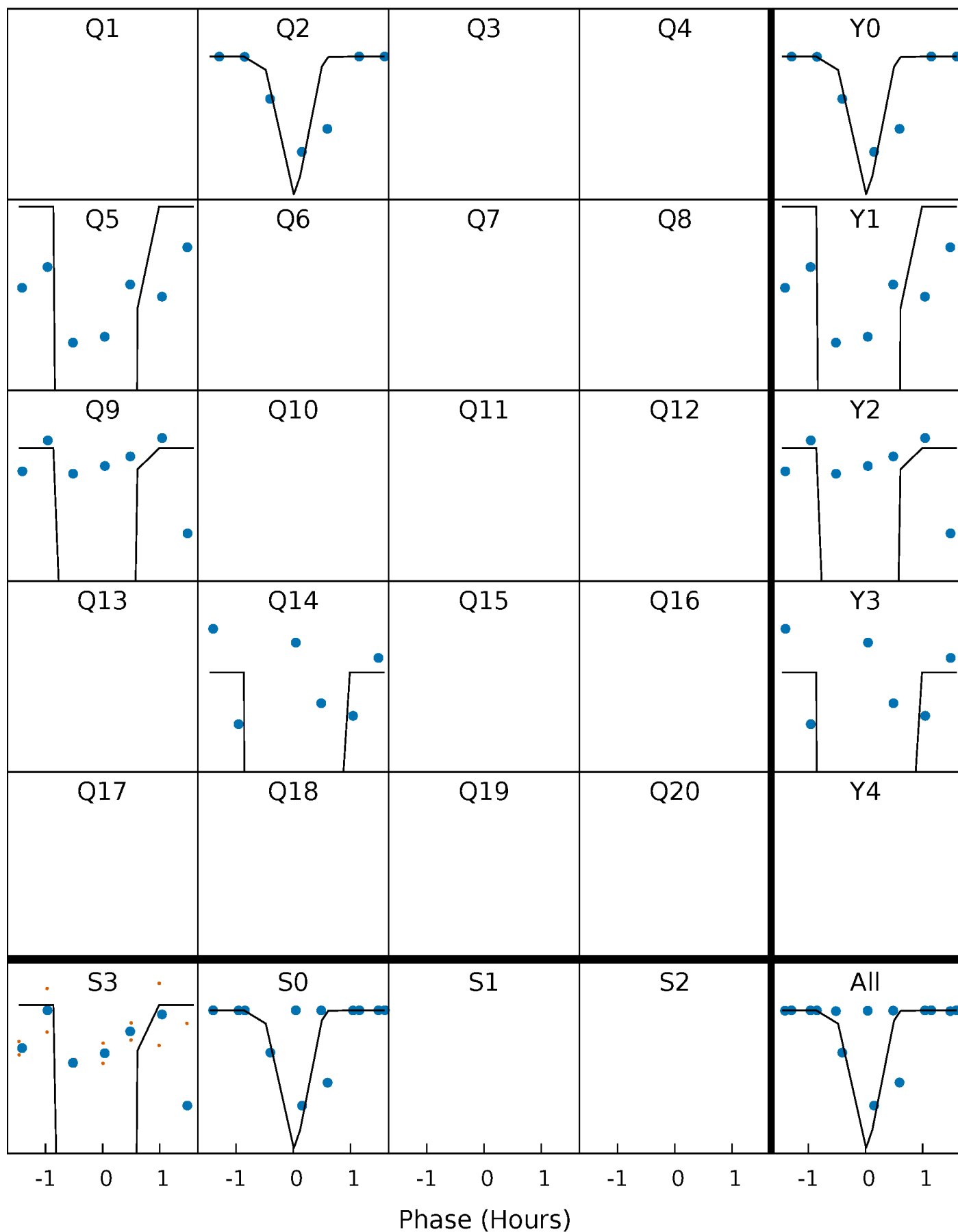
PDC Quarter-Phased Transit Curves

TCE 007292626-01 P=204.786260 Days $T_0=250.923054$ (BKJD)



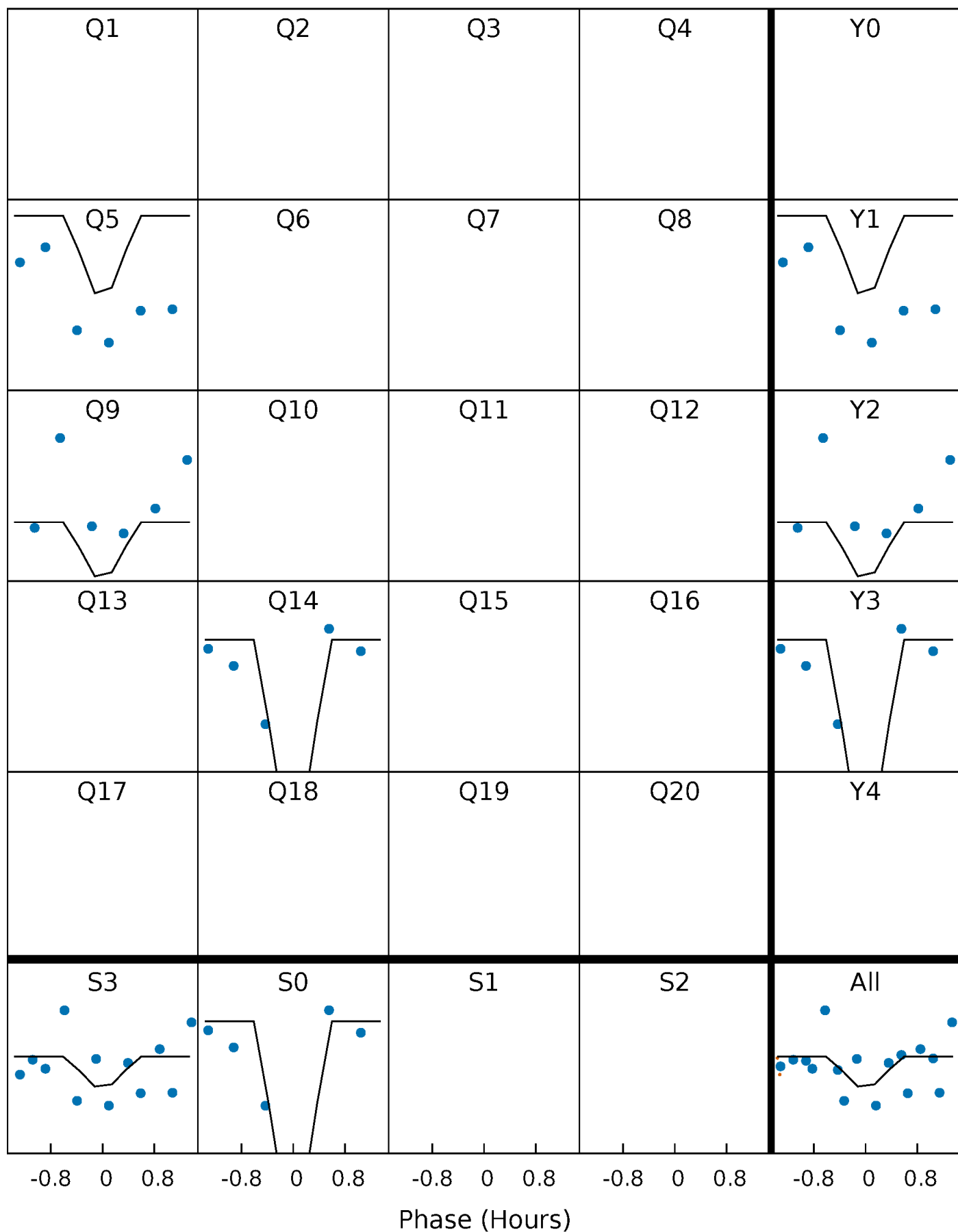
DV Quarter-Phased Transit Curves

TCE 007292626-01 P=204.786260 Days $T_0=250.923054$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

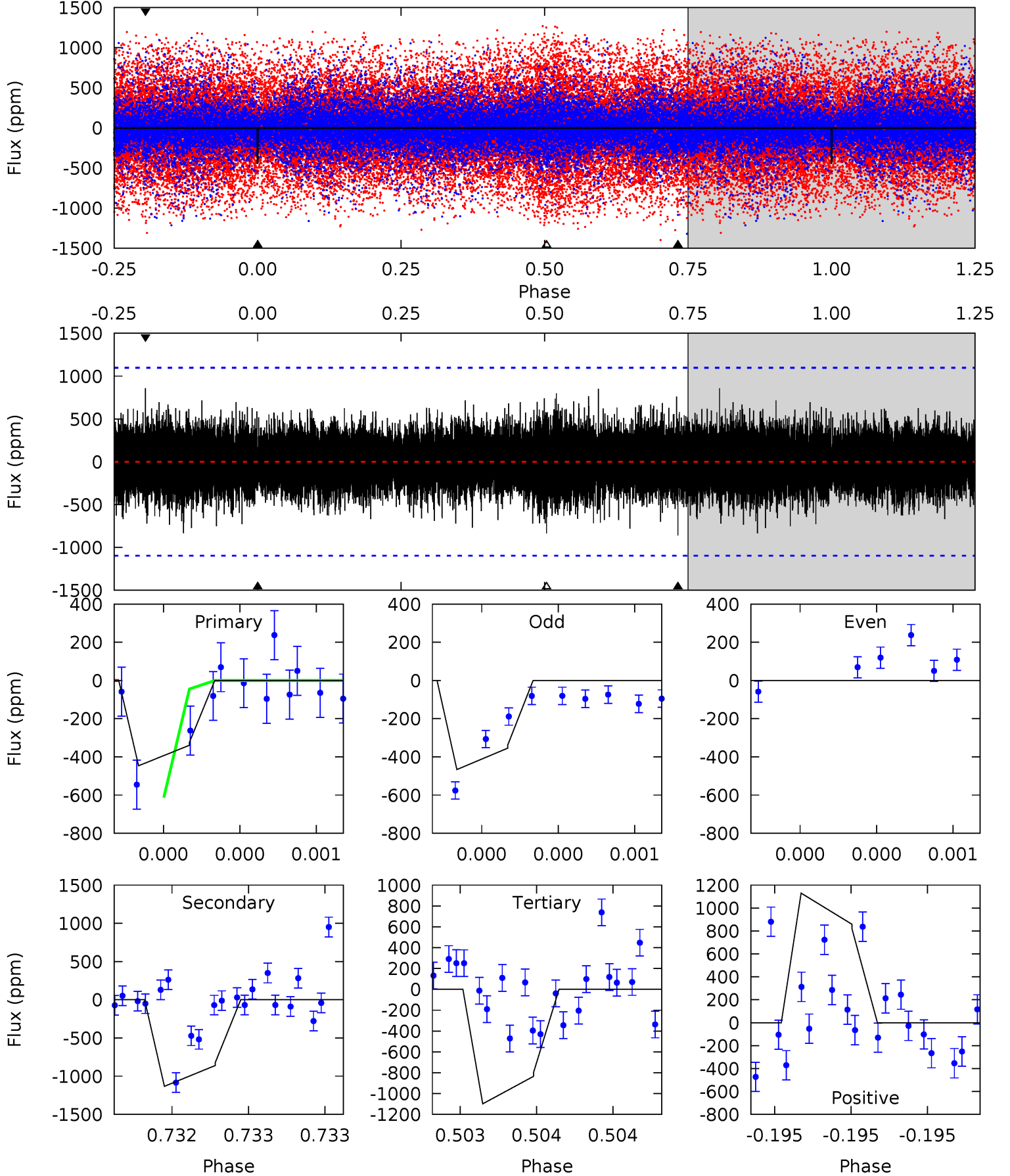
TCE 007292626-01 P=204.781576 Days $T_0=250.922109$ (BKJD)



DV Model-Shift Uniqueness Test

007292626-01, $P = 204.786260$ Days, $E = 46.136794$ Days

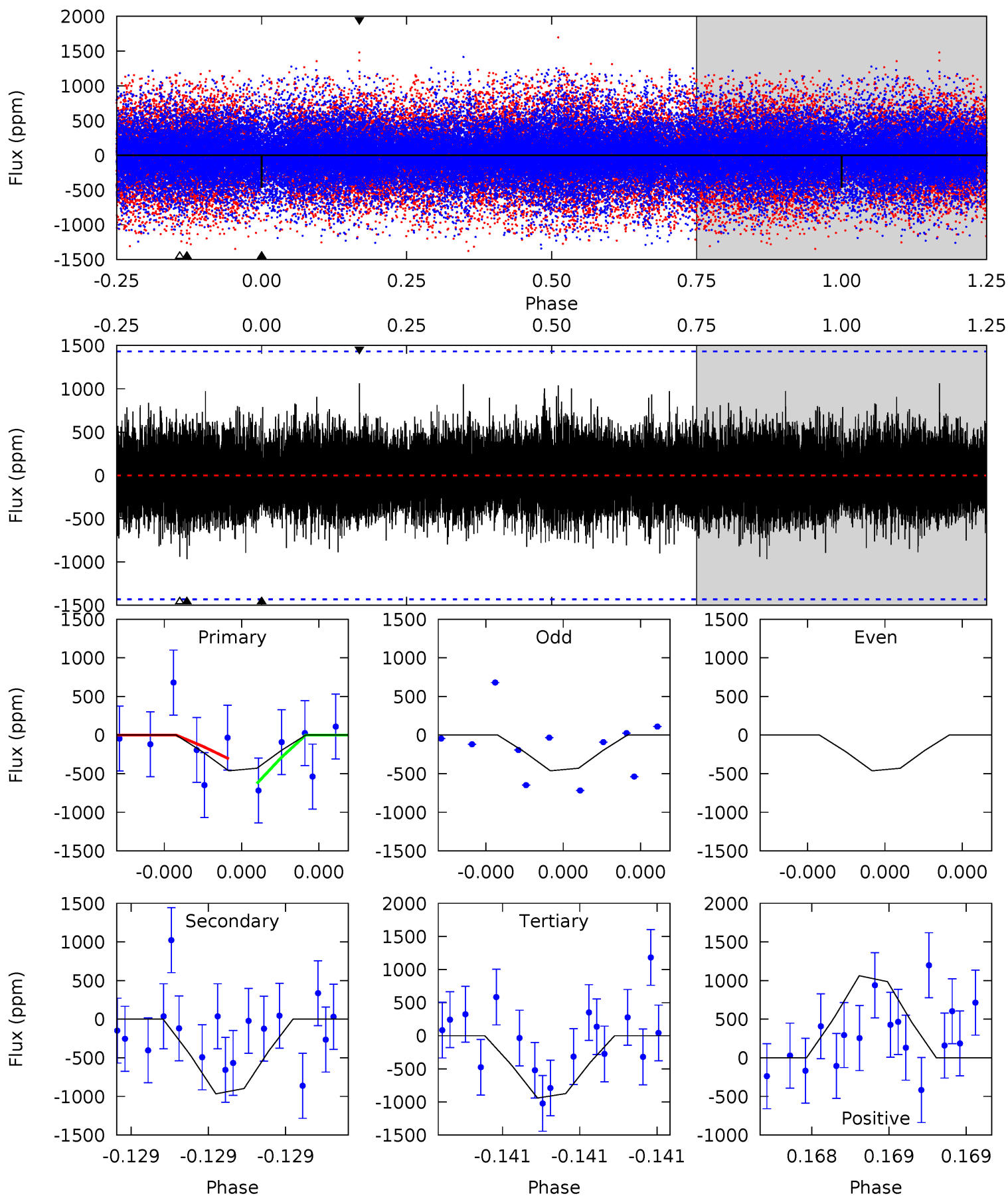
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.75	4.44	4.31	4.43	5.66	3.62	0.92	-2.56	-2.68	0.13	0.01	0	46.6	0.50	0



Alt Model-Shift Uniqueness Test

007292626-01, $P = 204.781576$ Days, $E = 46.140533$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.87	3.90	3.80	4.29	5.78	3.80	0.91	-1.93	-2.42	0.11	-0.39	0	1.00	0.52	0.65



Stellar Parameters For KIC 007292626

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6389^{+158}_{-190}	$4.463^{+0.054}_{-0.216}$	$-0.420^{+0.300}_{-0.350}$	$0.988^{+0.323}_{-0.101}$	$1.034^{+0.132}_{-0.132}$	$1.513^{+0.427}_{-0.797}$
	+2%/-3%	+1%/-5%	+71%/-83%	+33%/-10%	+13%/-13%	+28%/-53%
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 007292626-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-861 ± 194	$50.41^{+41.46}_{-33.00}$	481^{+36}_{-21}	2499^{+865}_{-339}	87^{+659}_{-62}
Alt.	-967 ± 248	$30.12^{+35.43}_{-21.46}$	480^{+35}_{-22}	2873^{+1359}_{-511}	260^{+2857}_{-207}

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

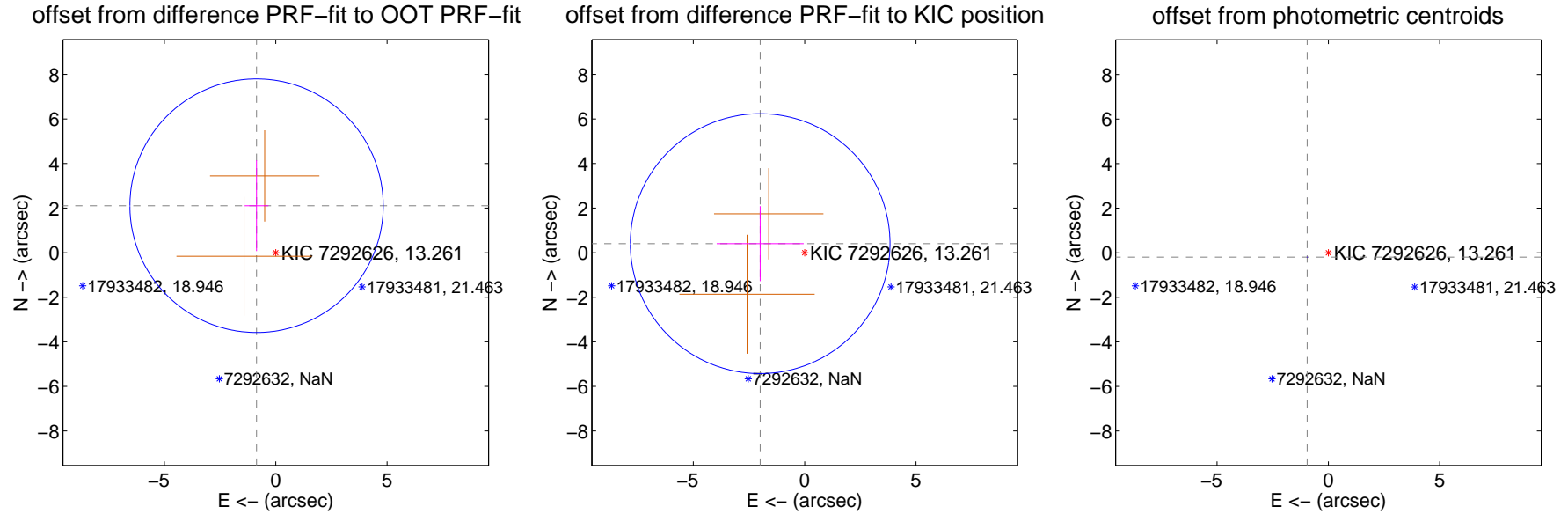
DV Centroid Data

Supplemental centroid analysis for 007292626-01. Kepler magnitude: 13.26. Transit SNR 465.09

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 2.04 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.277 ± 1.897	1.20	0.861 ± 0.533	2.108 ± 2.037
PRF-fit source offset from KIC position	2.039 ± 1.944	1.05	1.998 ± 1.954	0.406 ± 1.684
photometric centroid source offset	0.97 ± 0.00	754.34	0.95 ± 0.00	-0.20 ± 0.00



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.

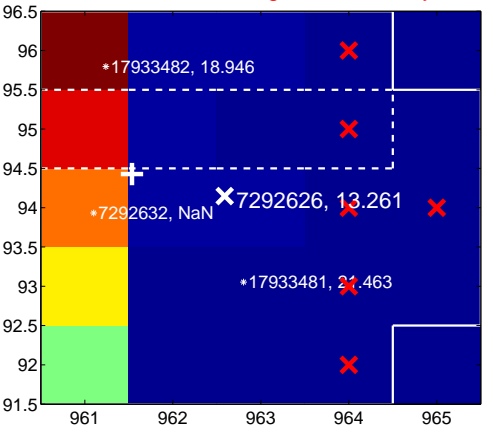
Q1 no difference image



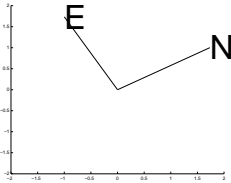
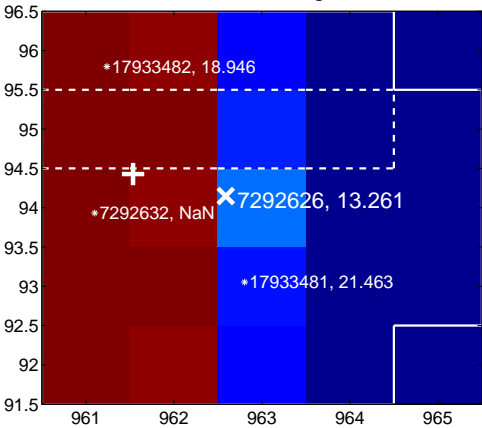
Q1 no OOT image



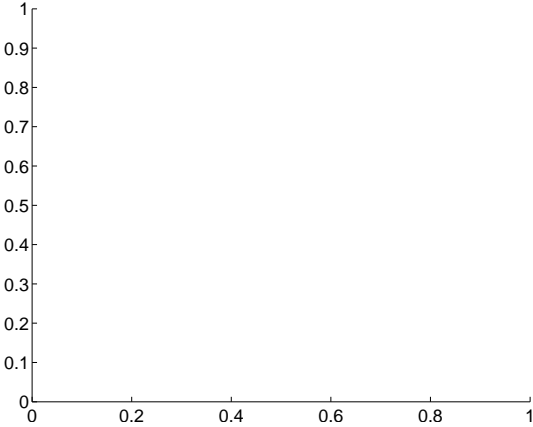
Q2 difference image. Poor Quality



Q2 OOT image



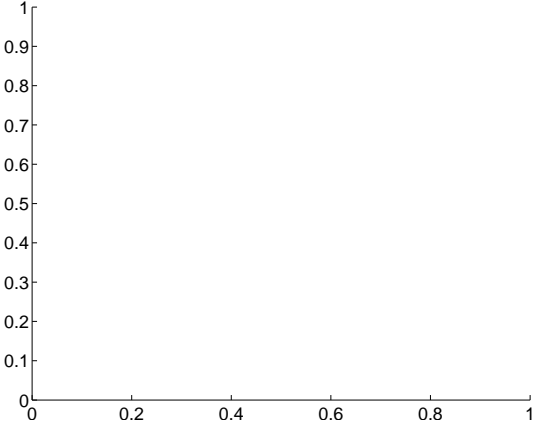
Q3 no difference image



Q3 no OOT image



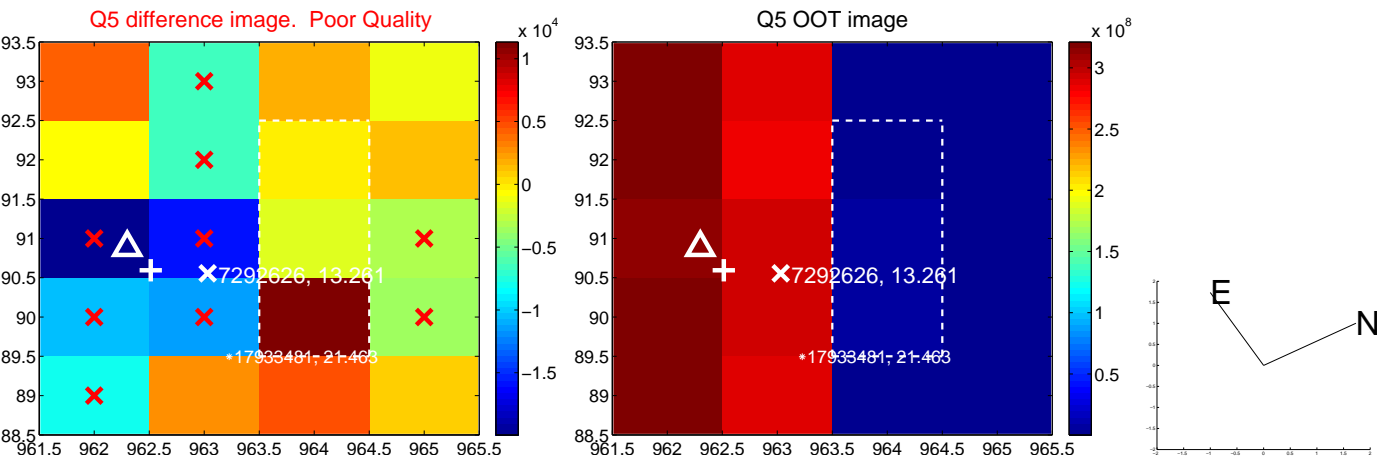
Q4 no difference image



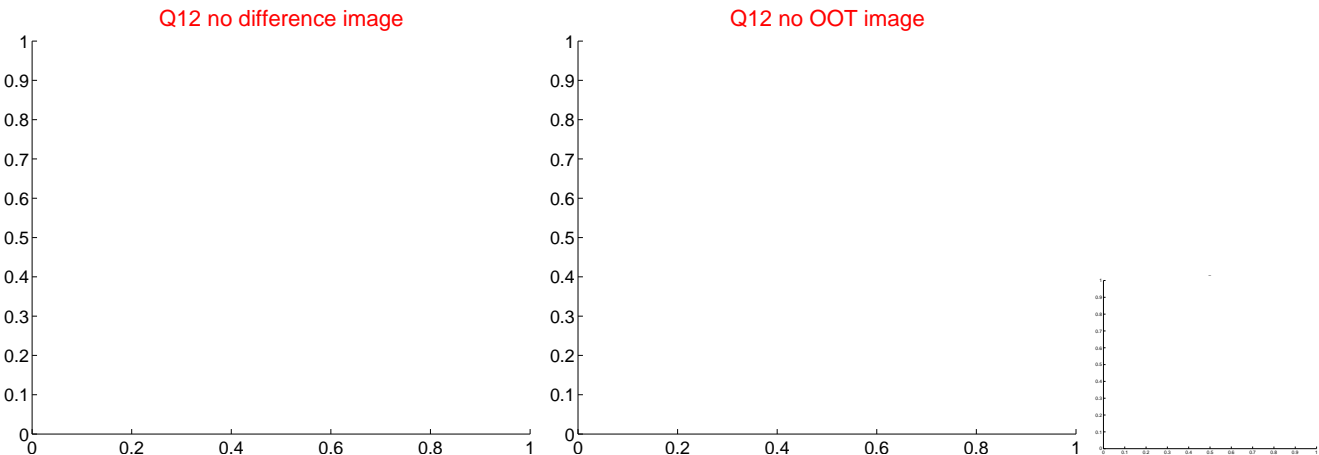
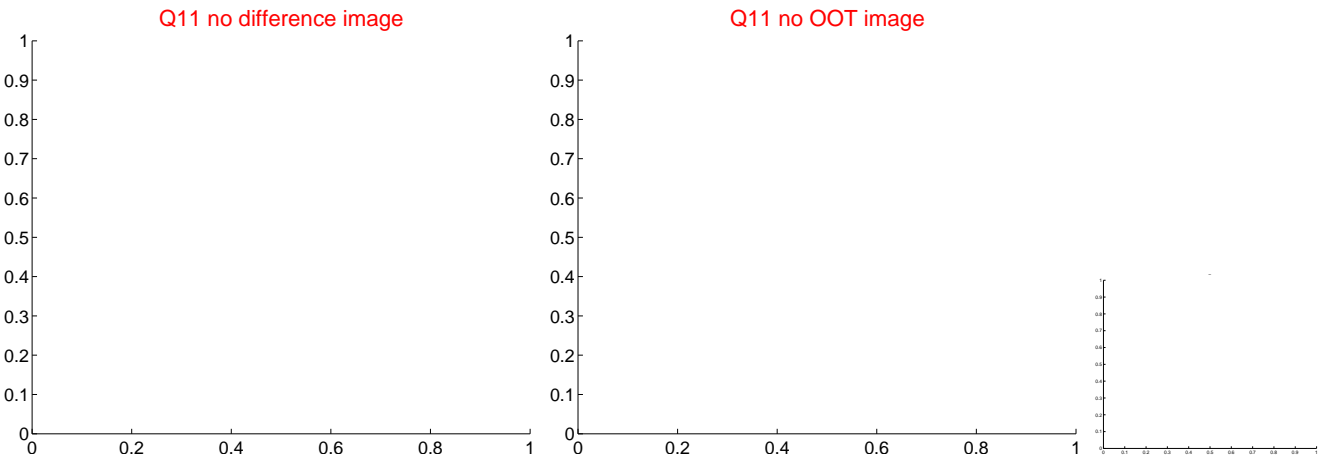
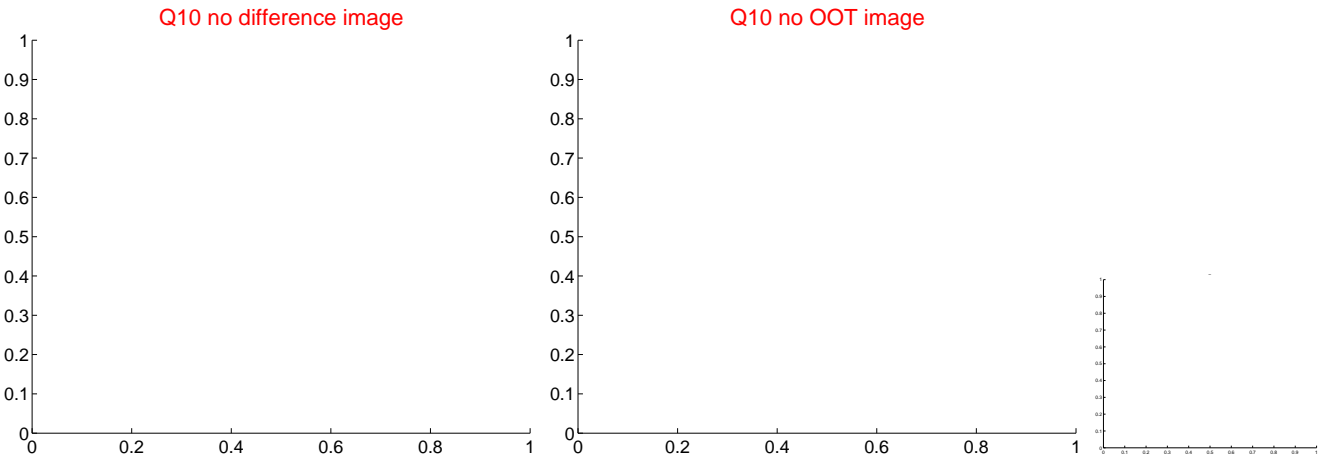
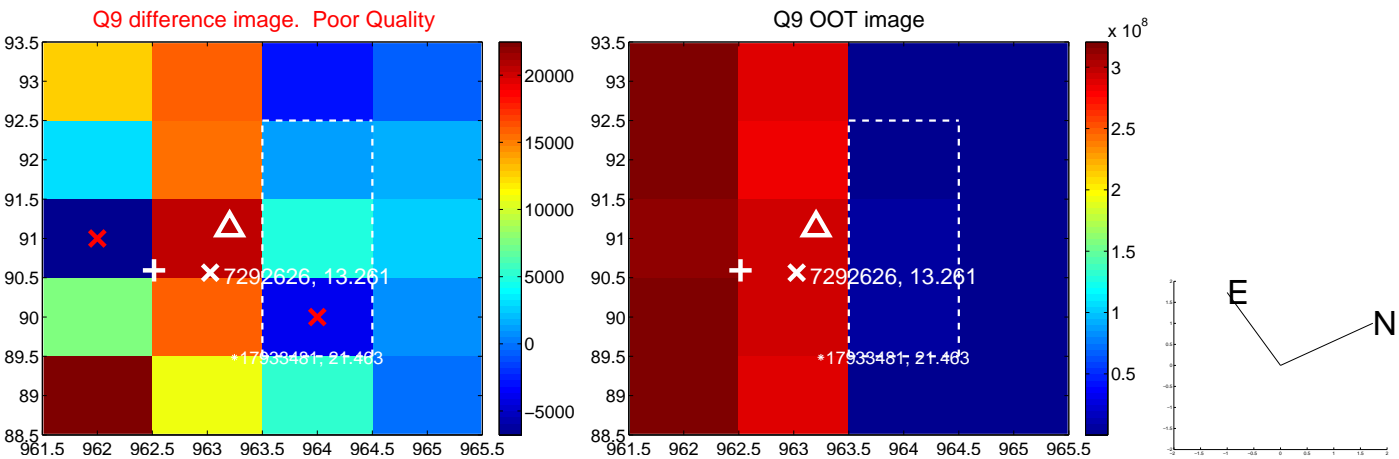
Q4 no OOT image



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



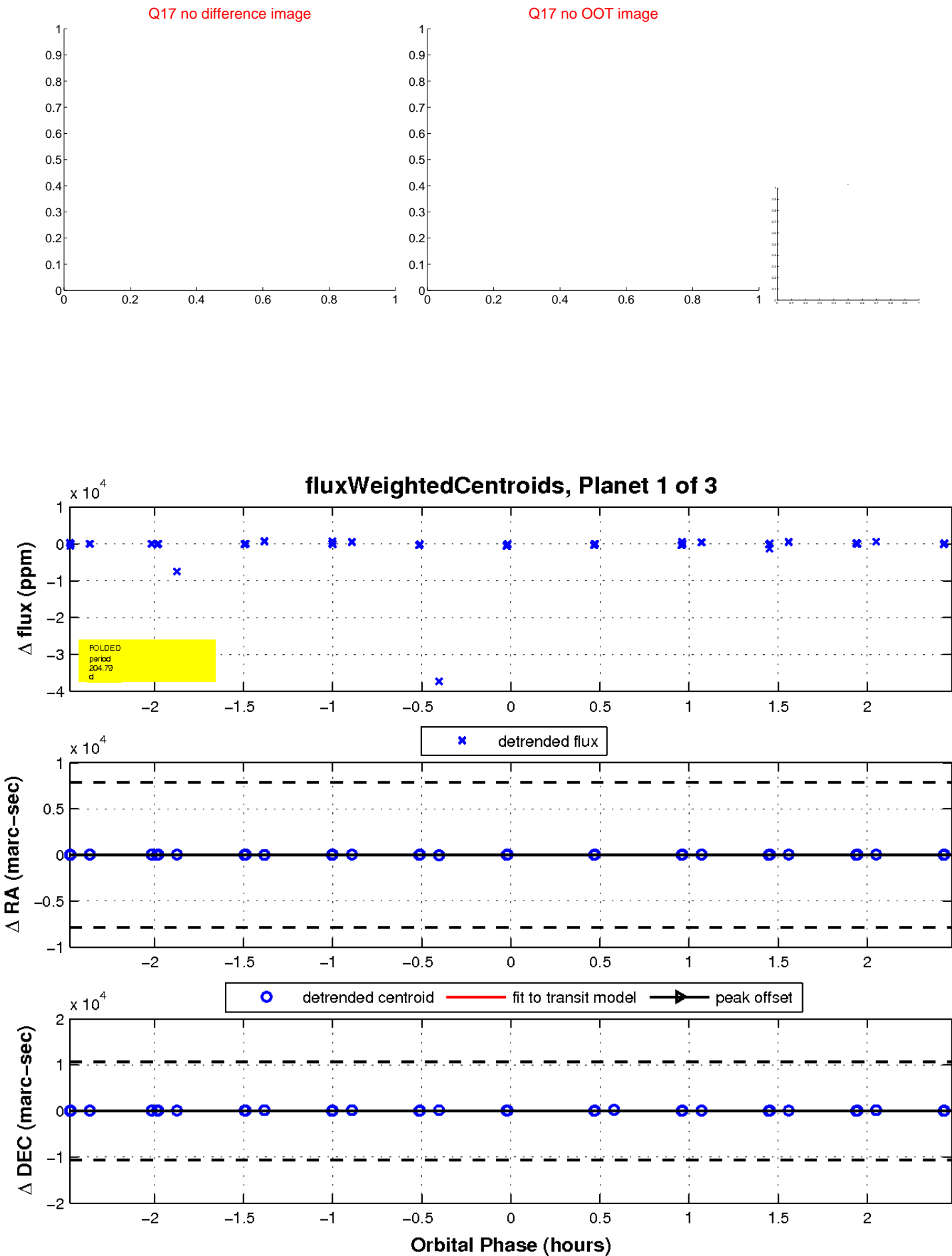
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

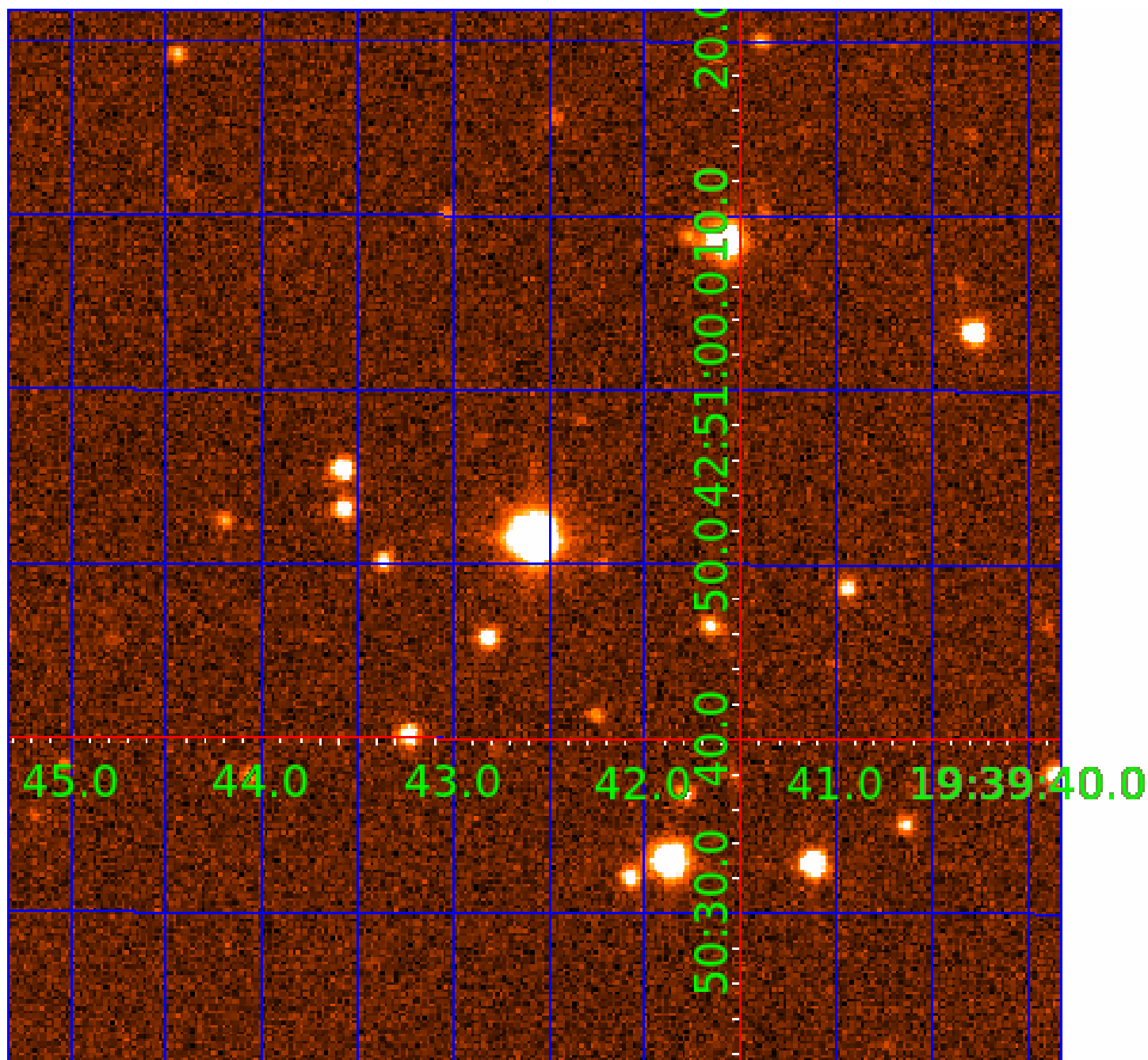


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007292626

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})
007292626-01	OBS	No	204.786260	250.923054	122502.0	0.834	944.9	465.1	0.99	6389	38.87	3.08
007292626-02	OBS	No	250.212835	219.951249	760.7	12.337	110.1	6.5	0.99	6389	3.81	2.36
007292626-03	OBS	No	397.940188	197.045266	165.2	12.313	60.2	2.4	0.99	6389	1.42	1.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007292626-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_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_DIFFS—HALO_GHOST
007292626-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007292626-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

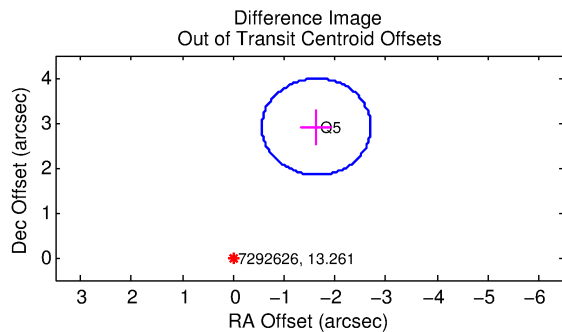
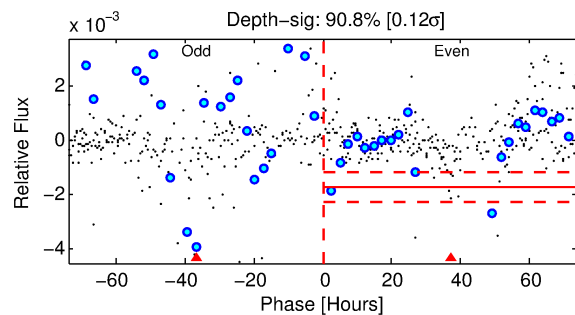
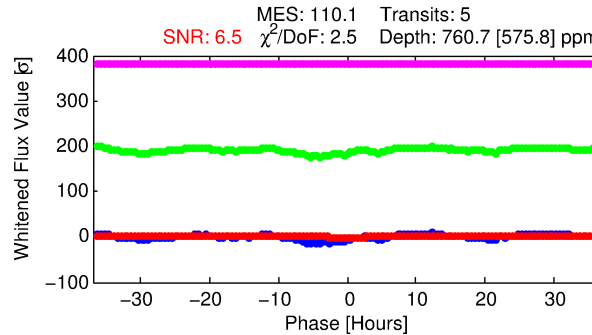
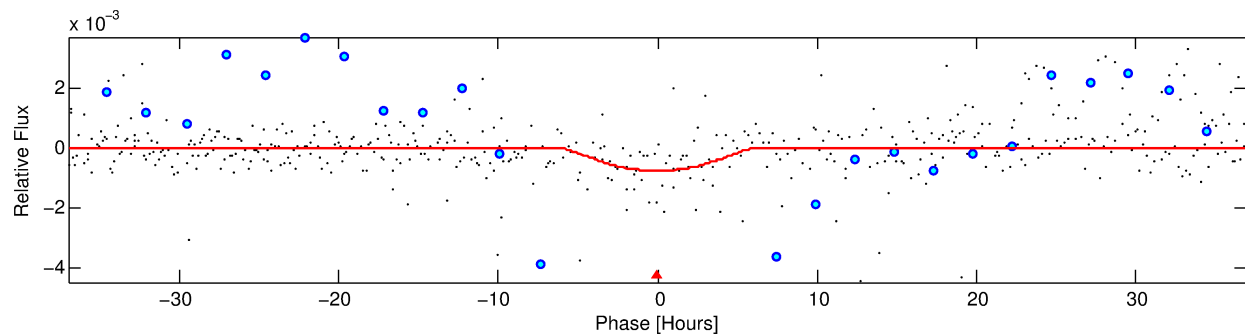
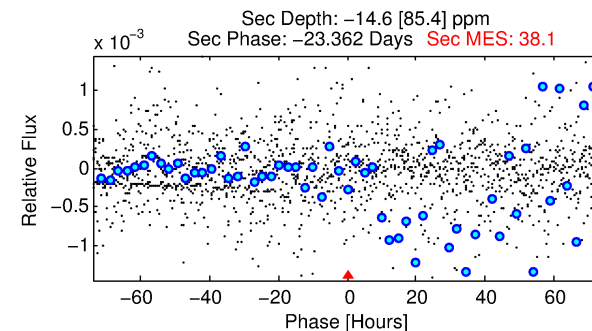
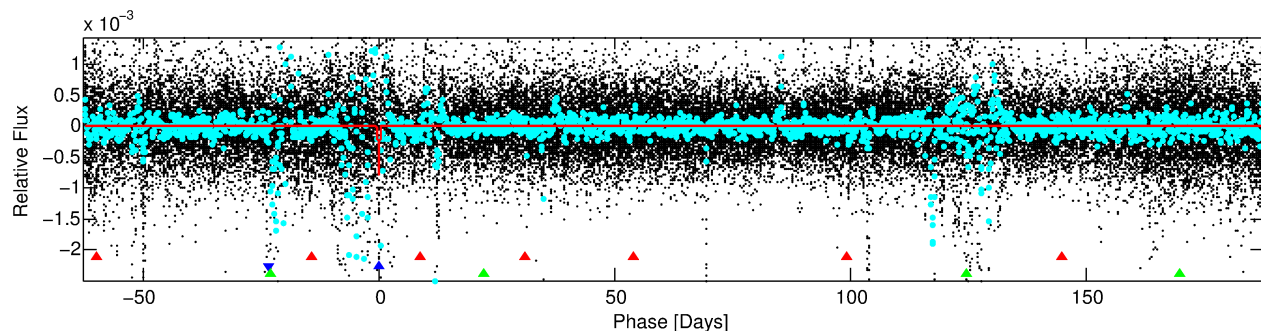
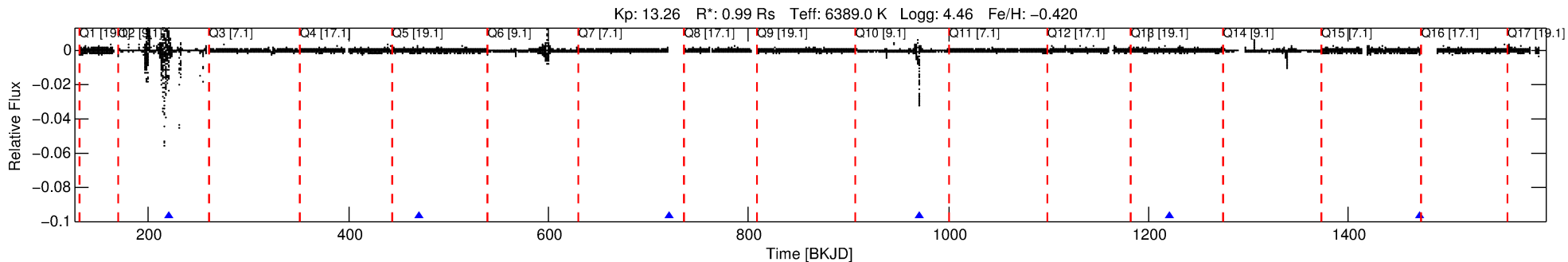
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007292626-02

No Significant Match Found

DV One-Page Summary

KIC: 7292626 Candidate: 2 of 3 Period: 250.213 d



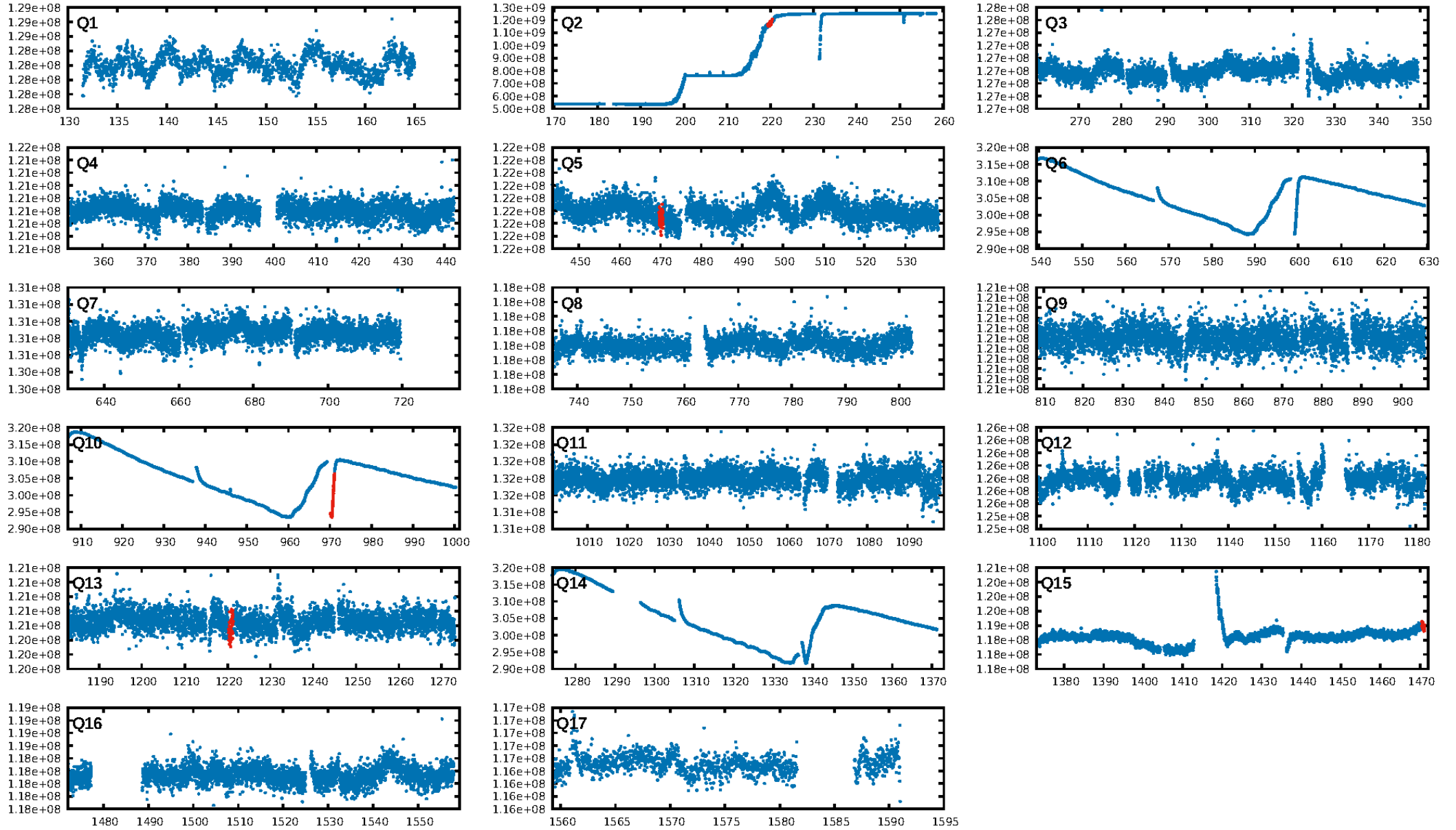
DV Fit Results:

Period = 250.21284 [0.01946] d
Epoch = 219.9512 [0.0467] BKJD
Rp/R* = 0.0354 [0.0795]
a/R* = 53.02 [64.44]
b = 0.98 [0.18]
Seff = 2.36 [0.98]
Teff = 316 [33] K
Rp = 3.82 [8.66] Re
a = 0.7860 [0.2152] AU
Ag = N/A
Teffp = N/A

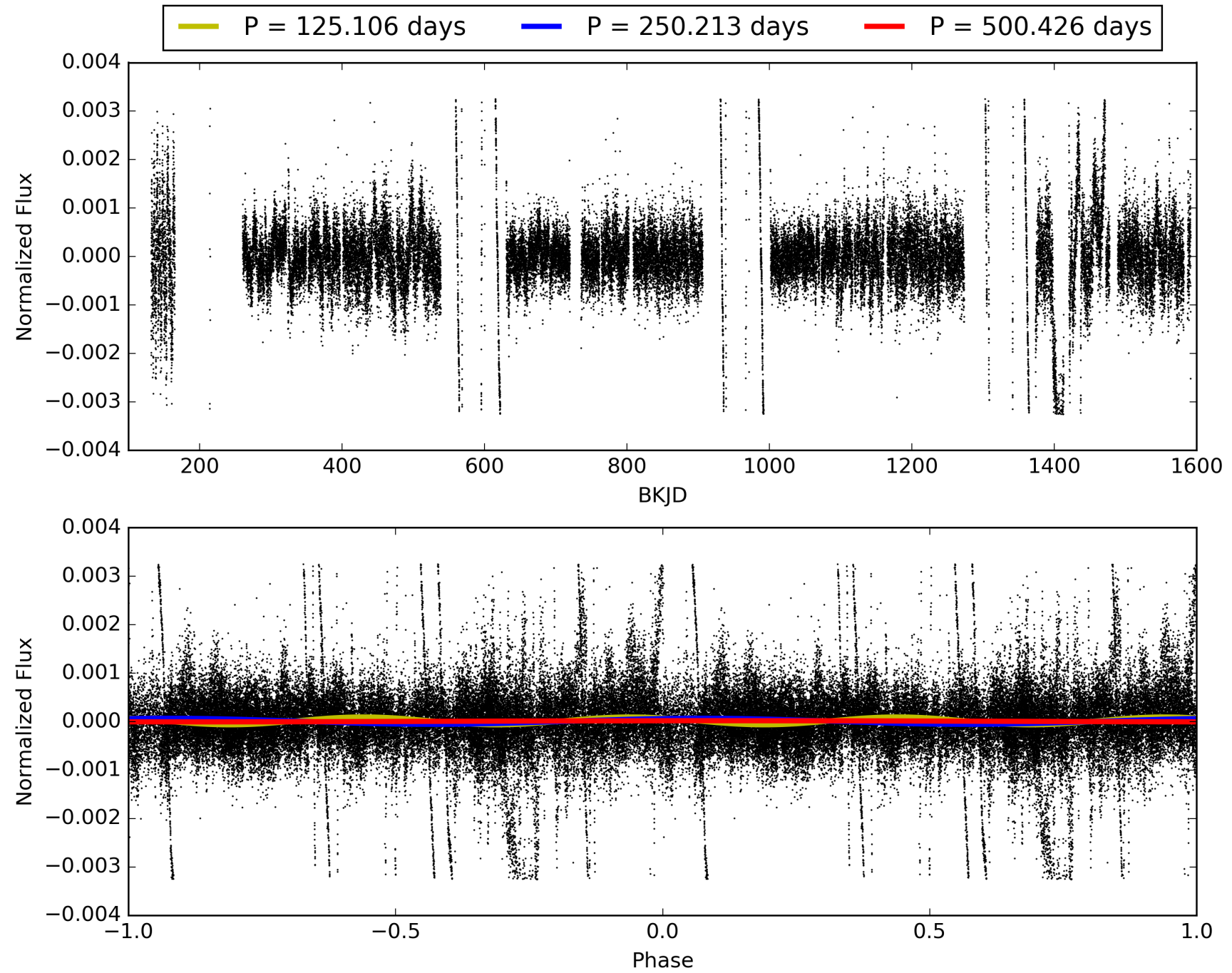
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [88.17 σ]
LongPeriod-sig: 100.0% [203.41 σ]
ModelChiSquare2-sig: 40.5%
ModelChiSquareGof-sig: 94.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -0.6267
Centroid-sig: 44.9%
Centroid-so: 0.927 arcsec [10.67 σ]
OotOffset-rm: 3.335 arcsec [9.33 σ]
KicOffset-rm: 1.267 arcsec [3.45 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

TCE 007292626-02, PDC Light Curves

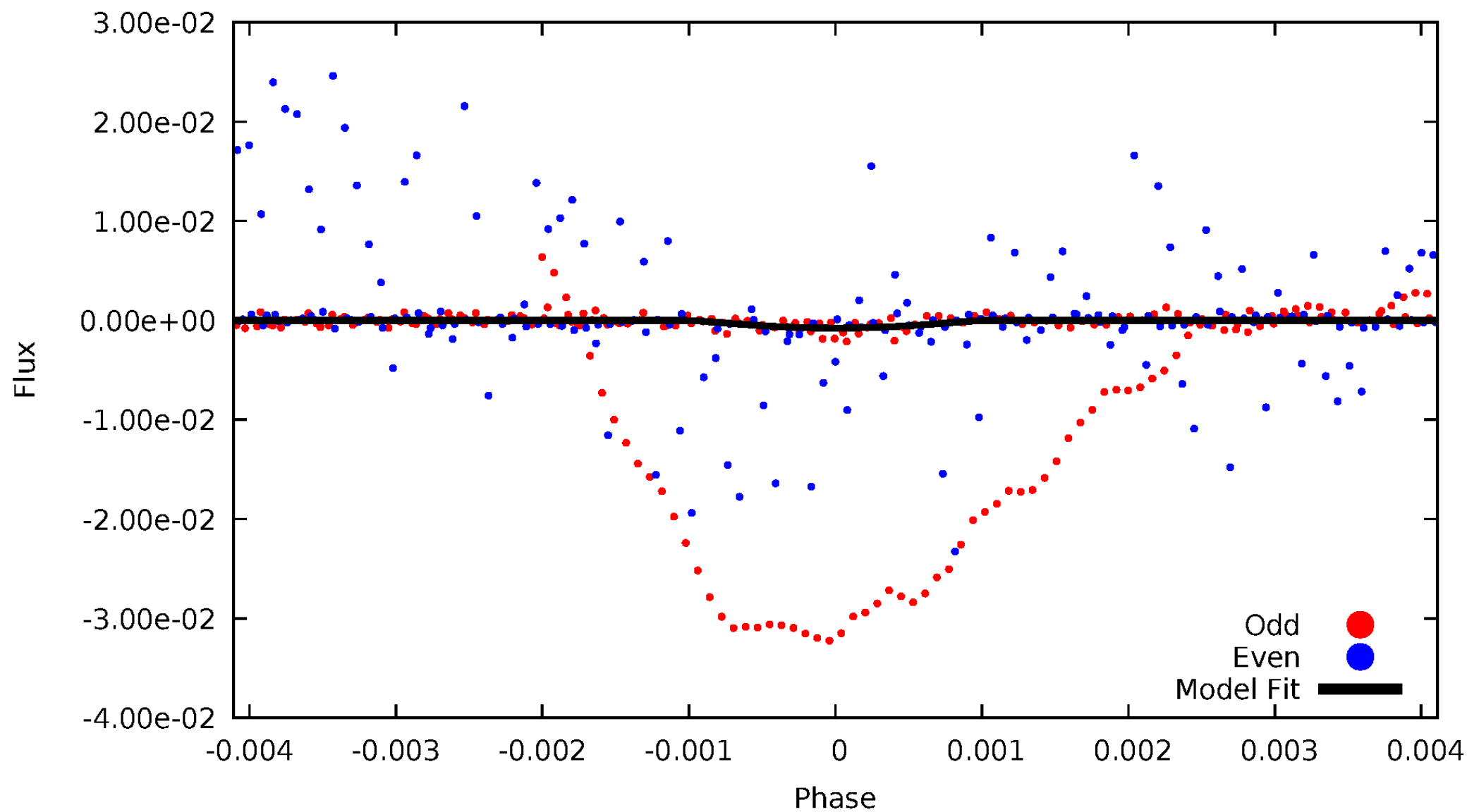


TCE 007292626-02



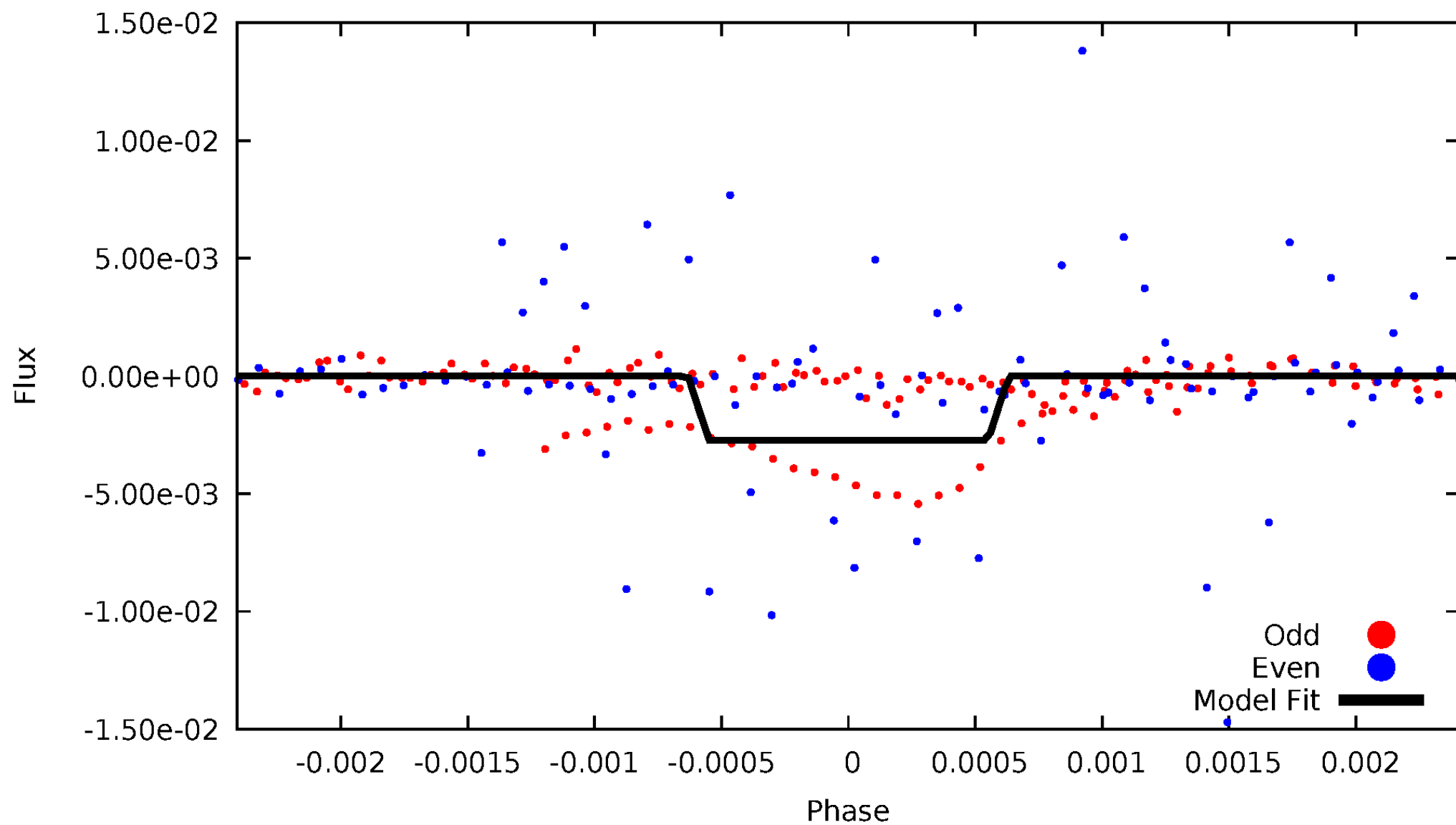
DV Odd/Even

TCE 007292626-02



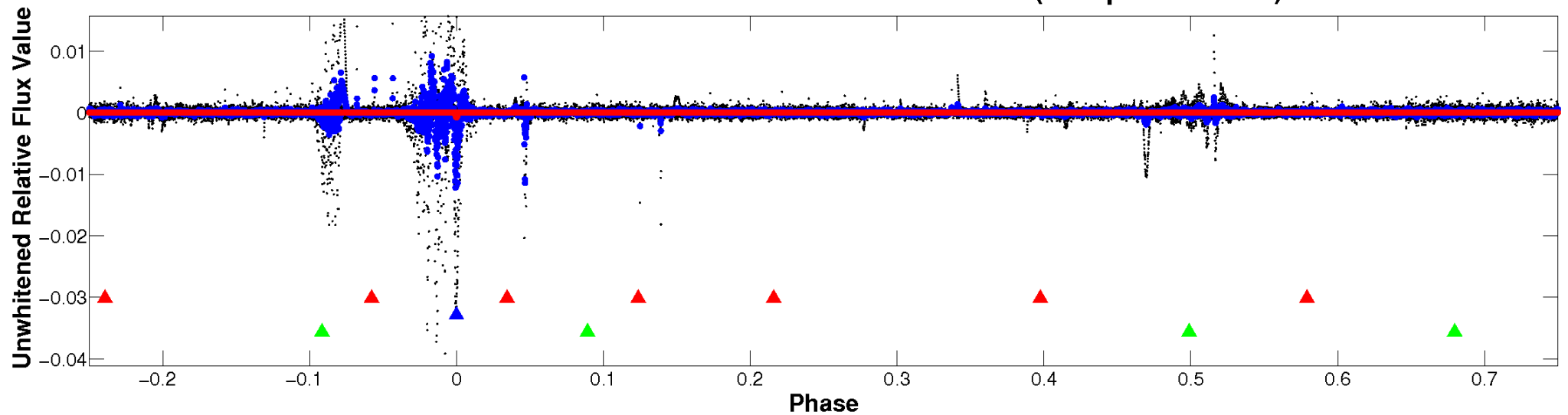
ALT Odd/Even

TCE 007292626-02

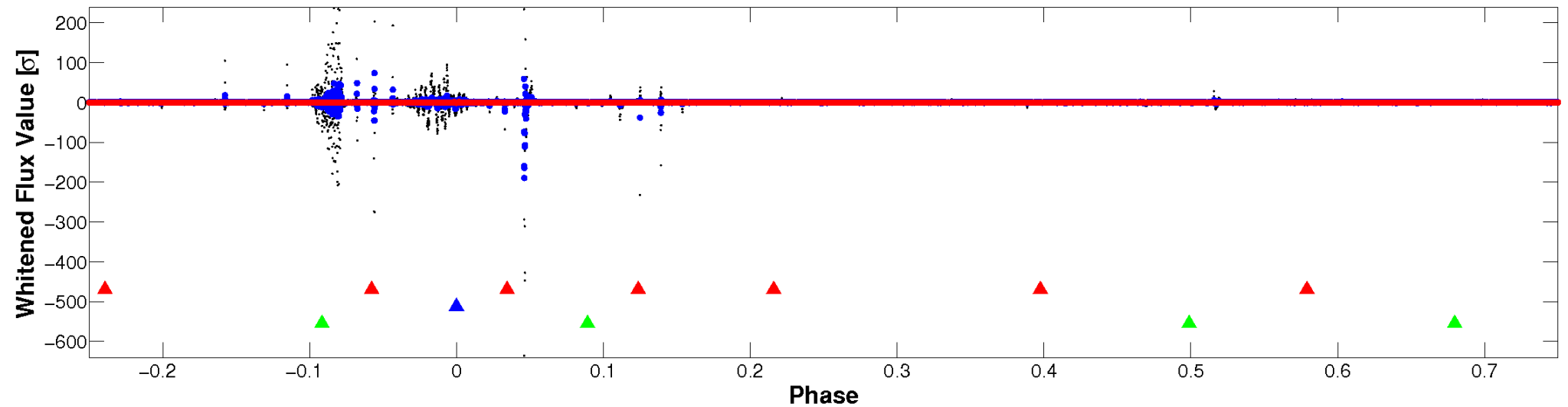


Non-Whitened Vs. Whitened Light Curve

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

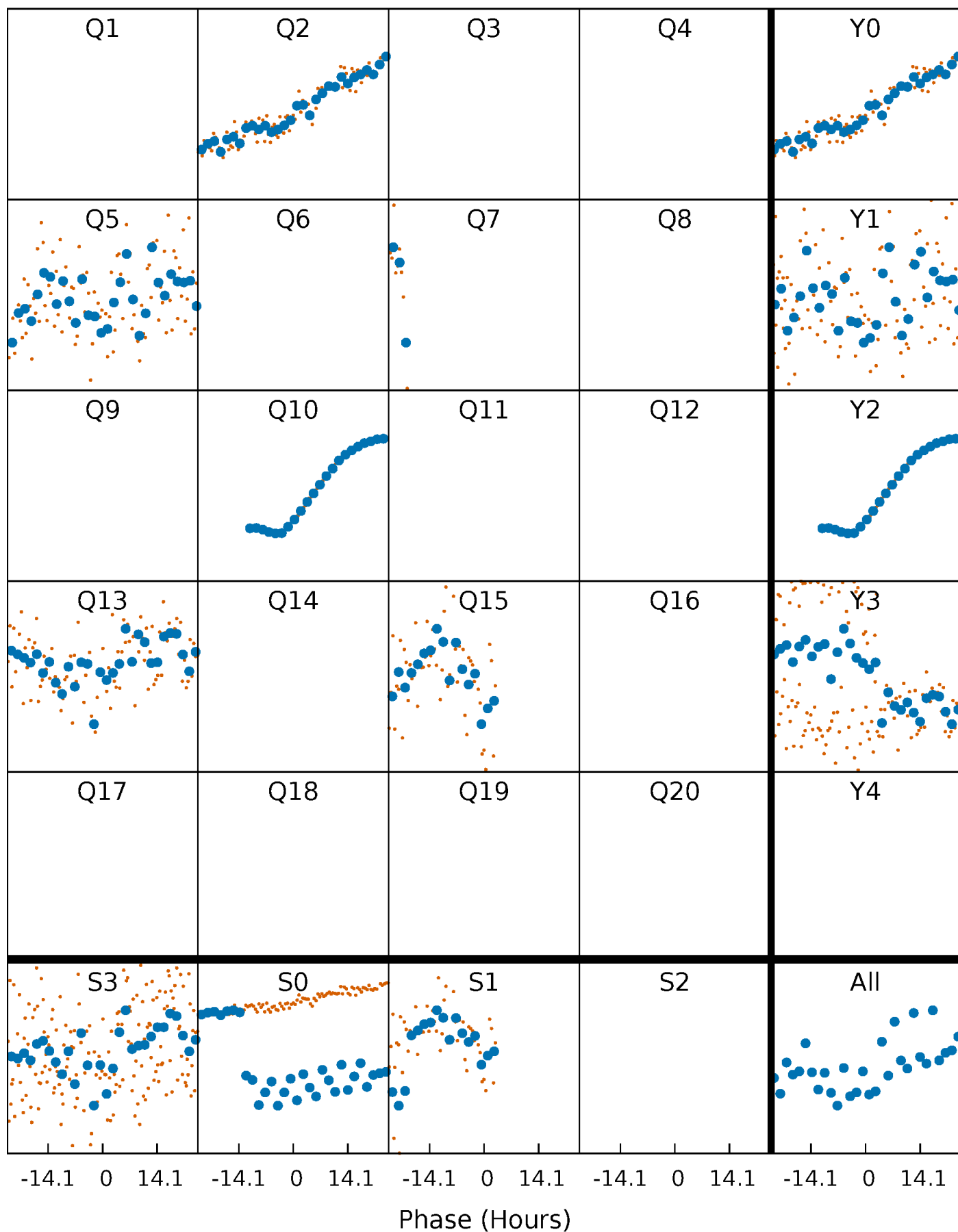


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



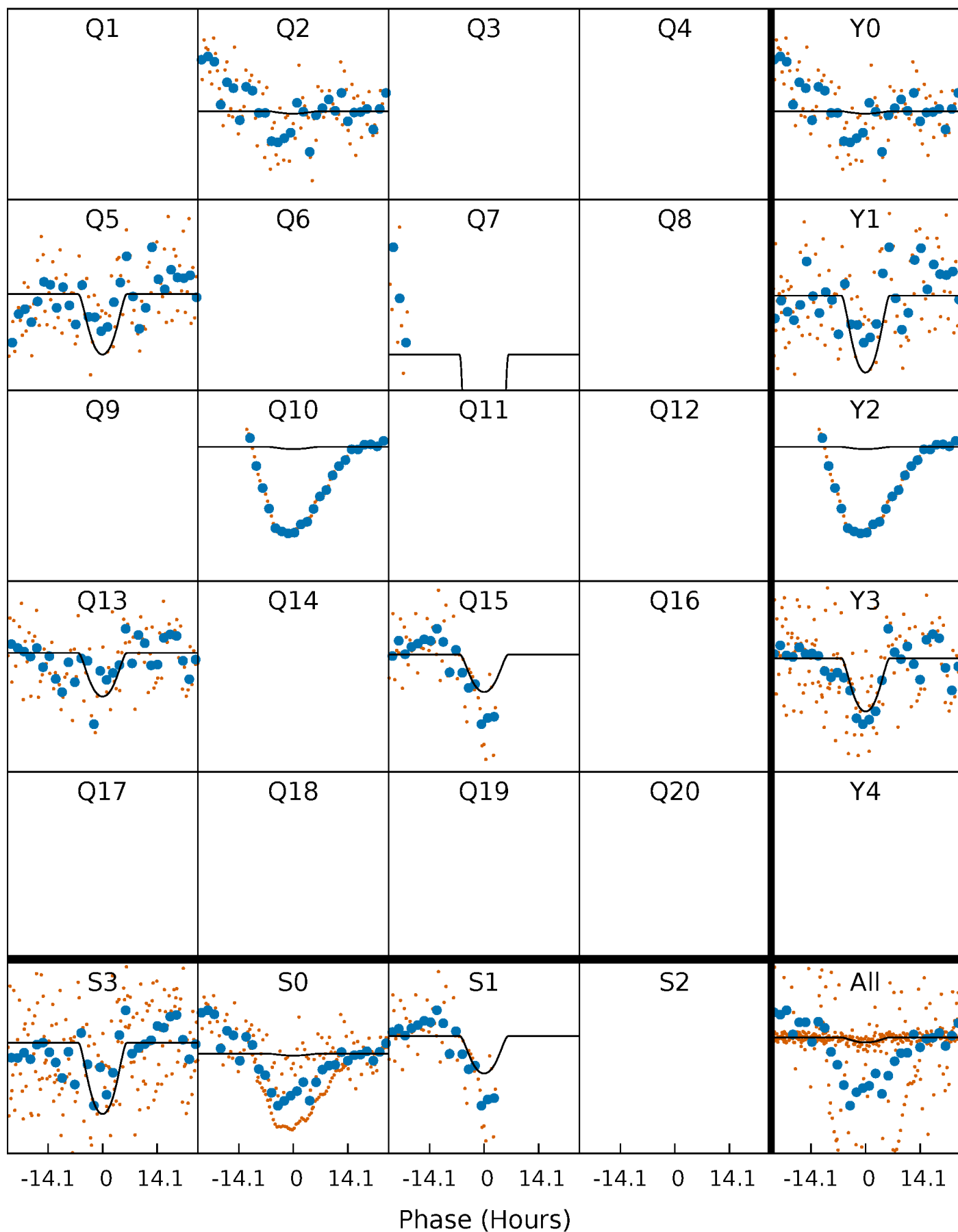
PDC Quarter-Phased Transit Curves

TCE 007292626-02 P=250.212835 Days $T_0=219.951249$ (BKJD)



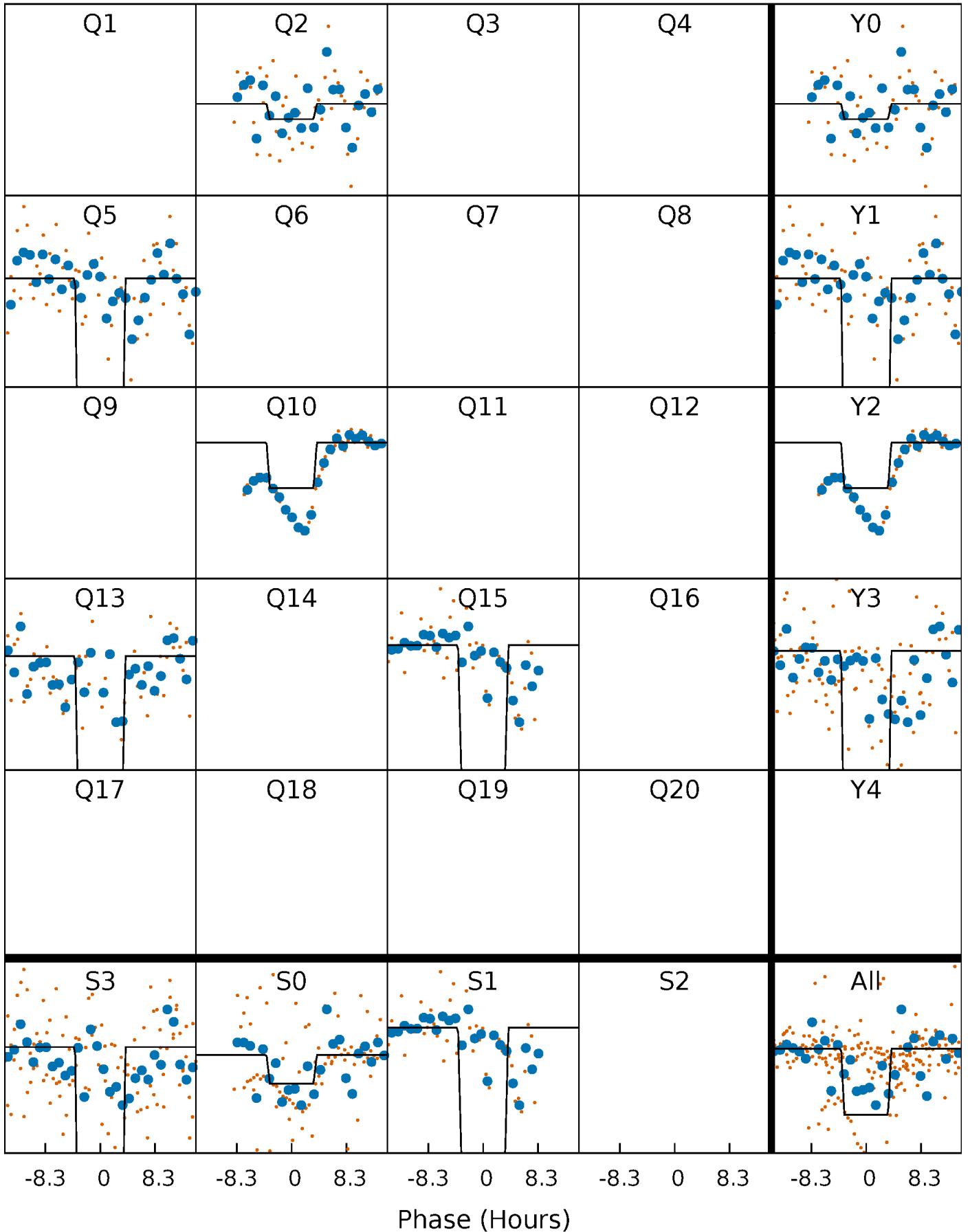
DV Quarter-Phased Transit Curves

TCE 007292626-02 P=250.212835 Days $T_0=219.951249$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

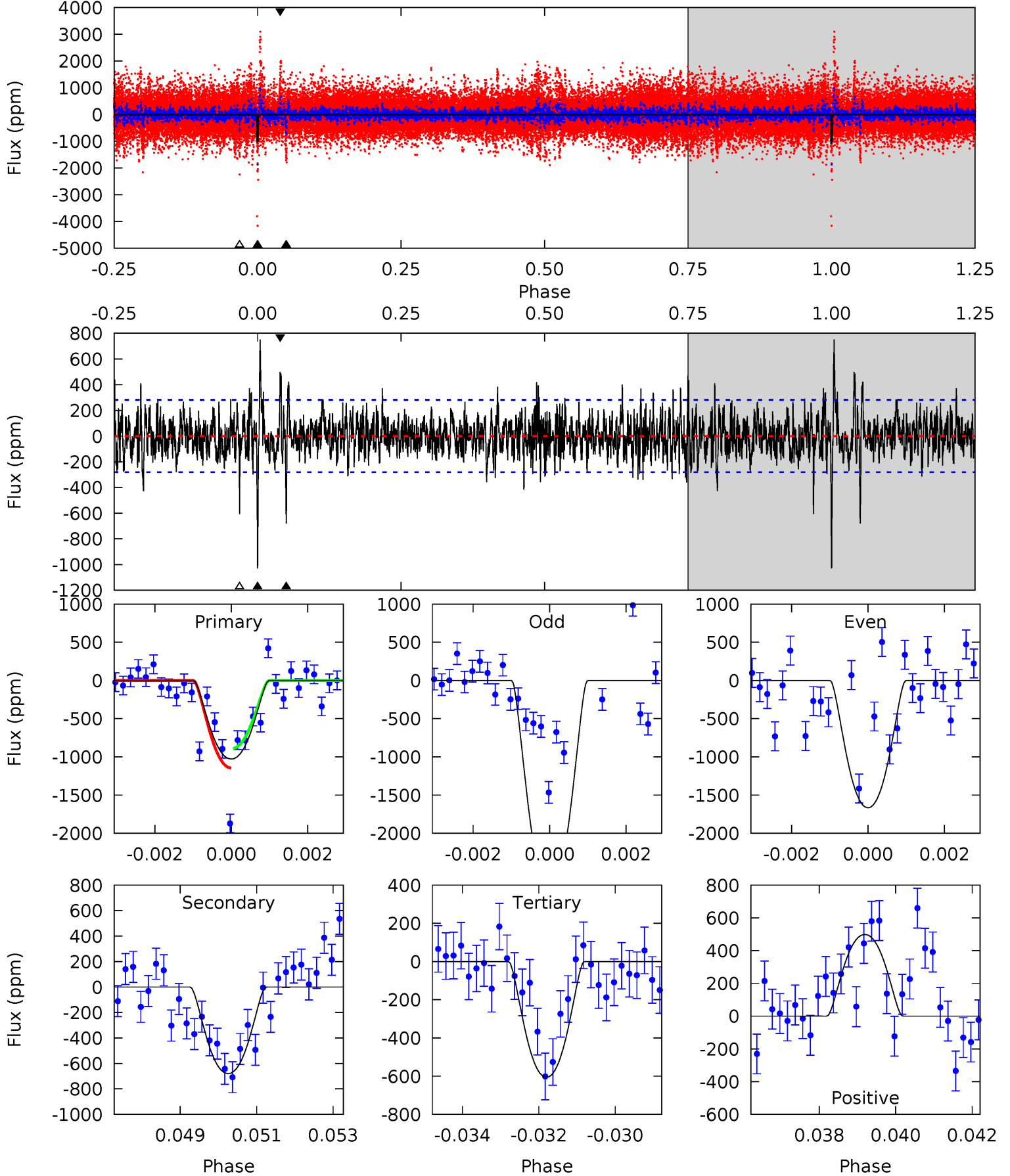
TCE 007292626-02 P=250.202131 Days $T_0=219.781580$ (BKJD)



DV Model-Shift Uniqueness Test

007292626-02, P = 250.212835 Days, E = 219.951249 Days

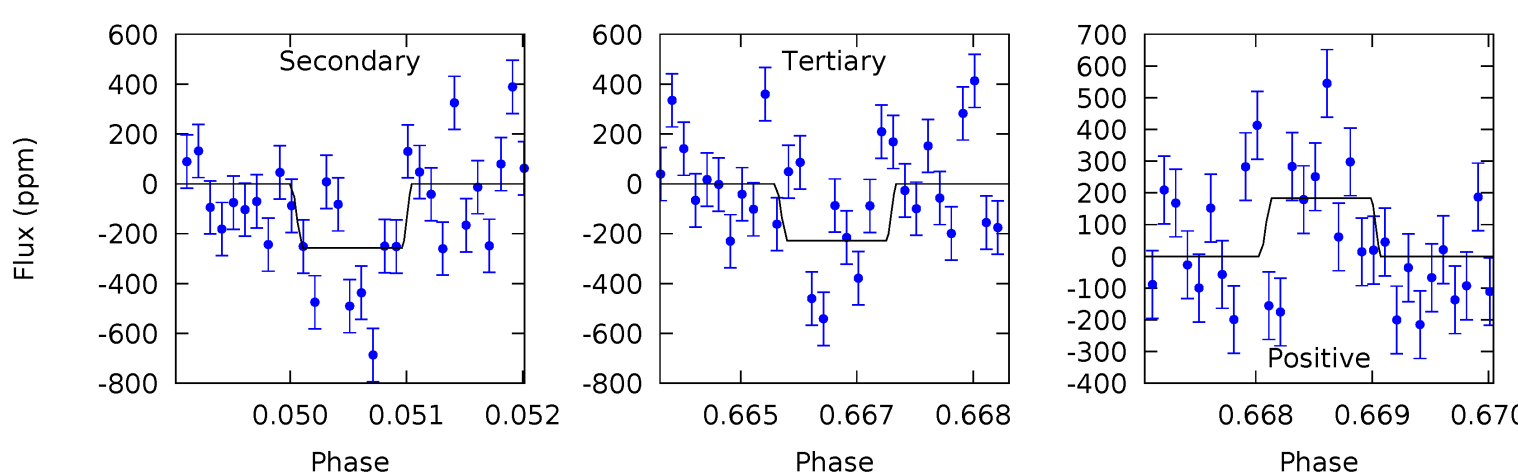
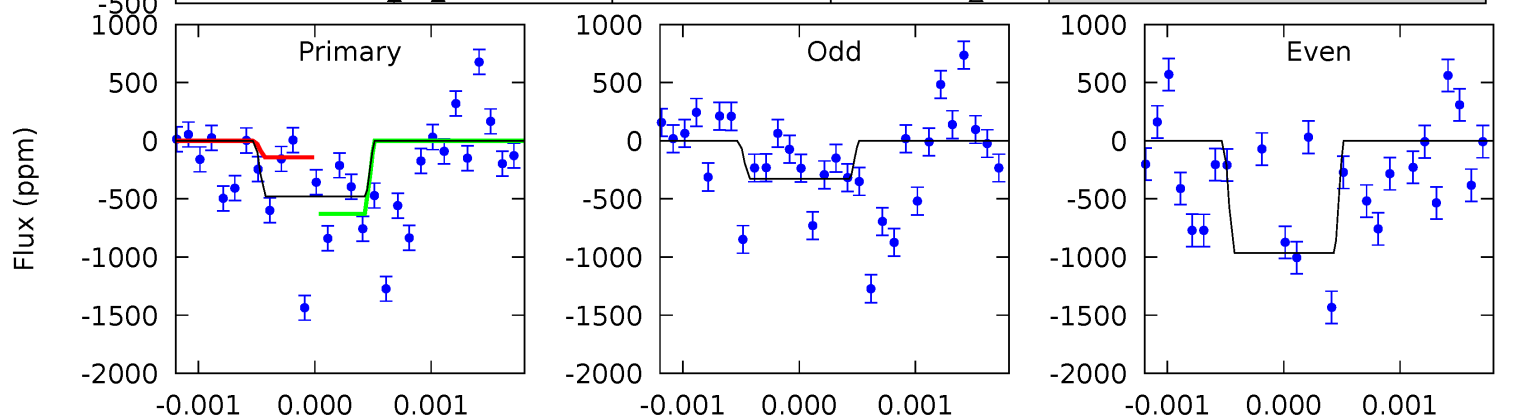
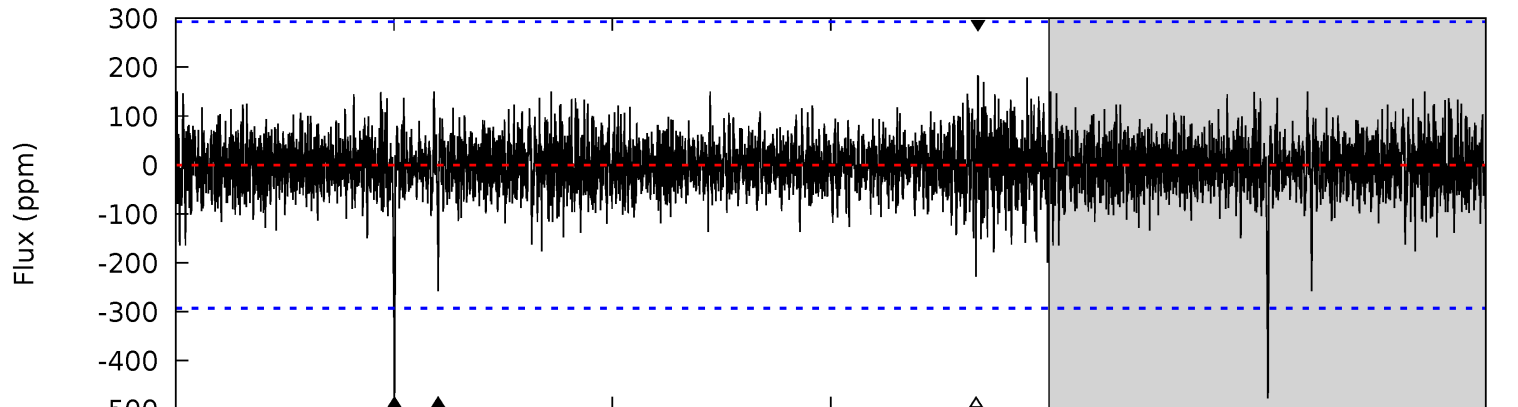
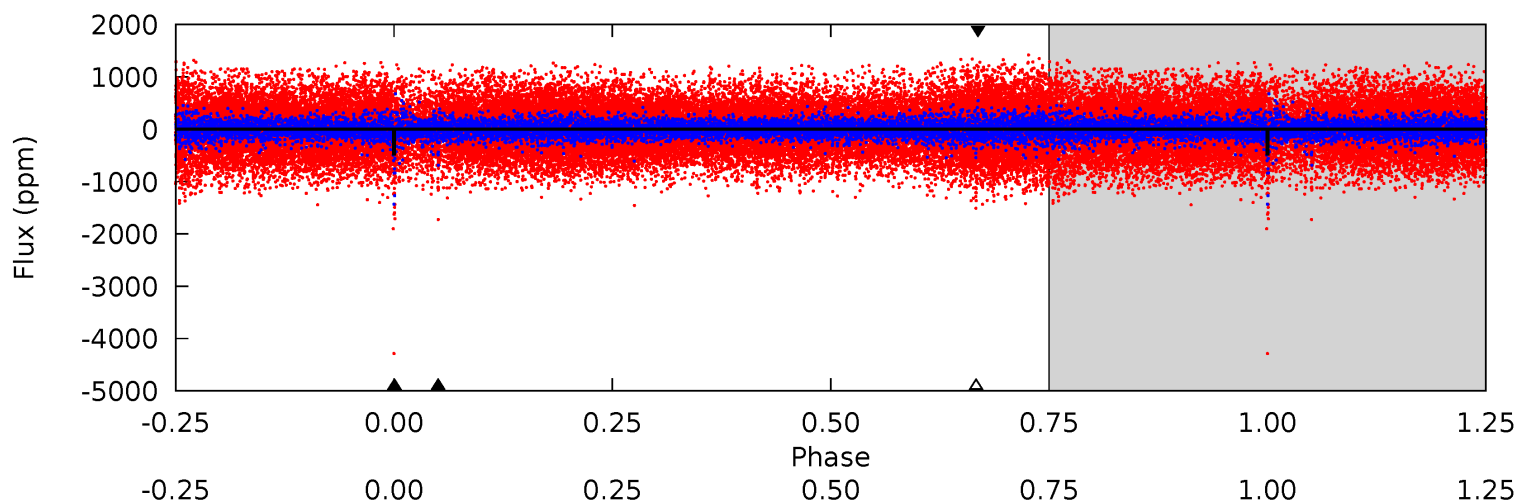
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.4	12.8	11.4	9.42	5.32	3.07	2.27	7.98	10.0	1.40	3.42	8.99	6.90	0.42	2.41



Alt Model-Shift Uniqueness Test

007292626-02, P = 250.202131 Days, E = 219.781580 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.82	4.76	4.21	3.39	5.41	3.23	0.83	4.60	5.43	0.54	1.37	5.44	3.02	0.28	4.42



Stellar Parameters For KIC 007292626

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6389^{+158}_{-190}	$4.463^{+0.054}_{-0.216}$	$-0.420^{+0.300}_{-0.350}$	$0.988^{+0.323}_{-0.101}$	$1.034^{+0.132}_{-0.132}$	$1.513^{+0.427}_{-0.797}$
	+2%/-3%	+1%/-5%	+71%/-83%	+33%/-10%	+13%/-13%	+28%/-53%
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 007292626-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-680 ± 53	$7.88^{+7.53}_{-5.34}$	450^{+36}_{-19}	4177^{+2673}_{-829}	3725^{+30009}_{-2794}
Alt.	-258 ± 54	$9.12^{+7.85}_{-5.79}$	453^{+33}_{-24}	3415^{+1392}_{-595}	1087^{+6590}_{-794}

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

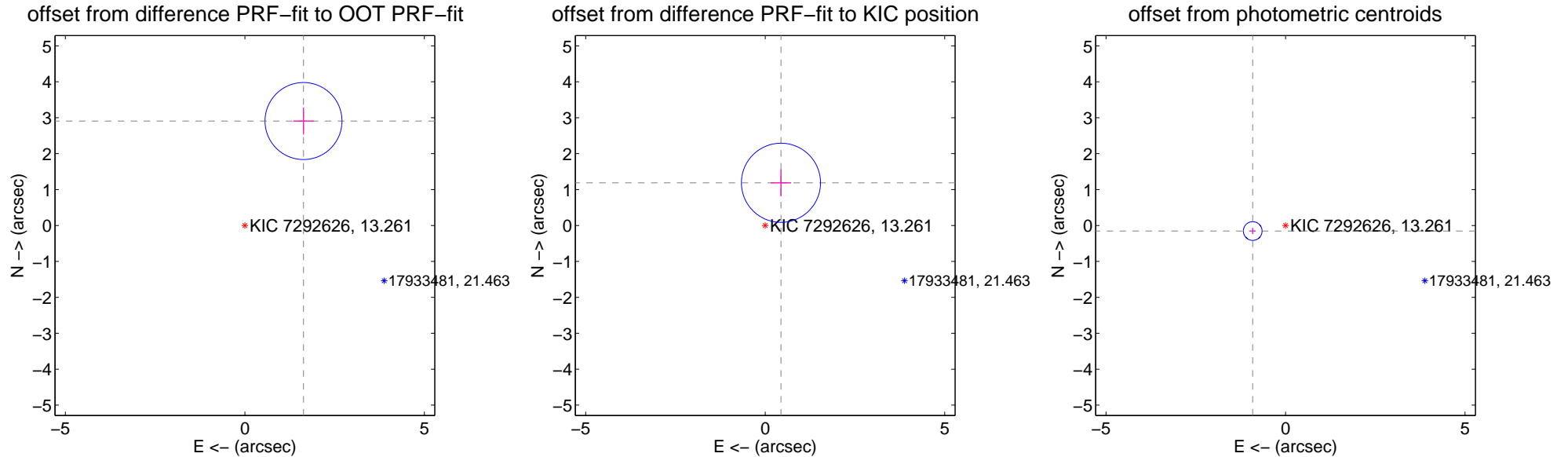
DV Centroid Data

Supplemental centroid analysis for 007292626-02. Kepler magnitude: 13.26. Transit SNR 6.49

There are 0 quarters with good PRF difference image offsets

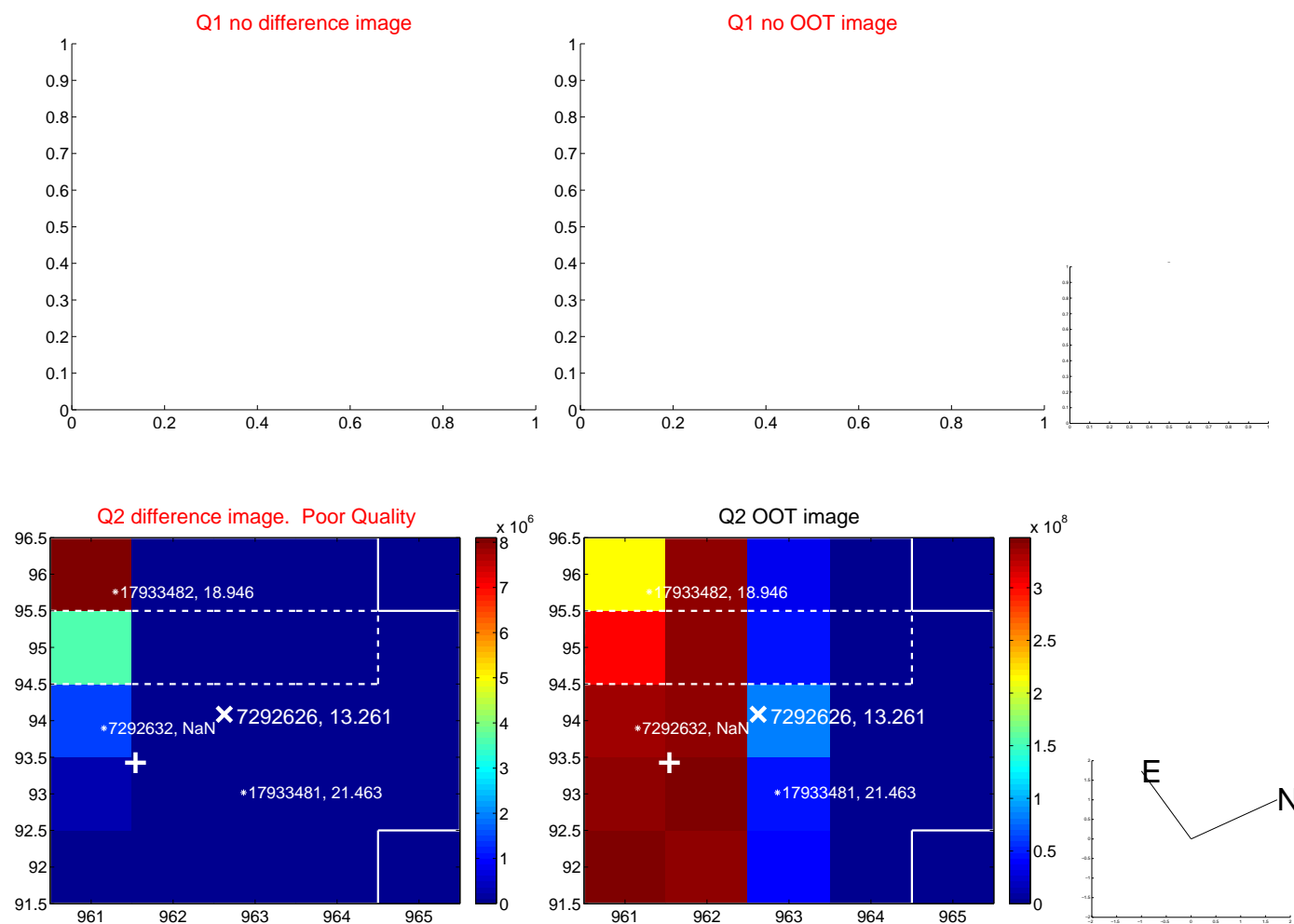
The OOT PRF centroid is offset from the target star catalog position by about 2.09 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.335 ± 0.357	9.33	-1.633 ± 0.286	2.908 ± 0.377
PRF-fit source offset from KIC position	1.267 ± 0.367	3.45	-0.439 ± 0.286	1.189 ± 0.377
photometric centroid source offset	0.93 ± 0.09	10.67	0.91 ± 0.09	-0.15 ± 0.08

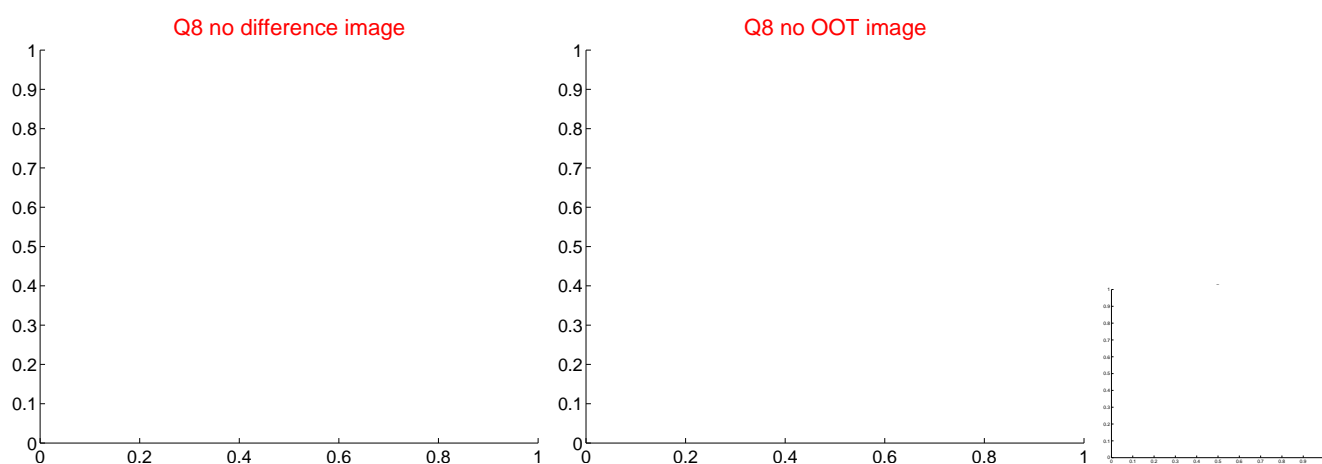
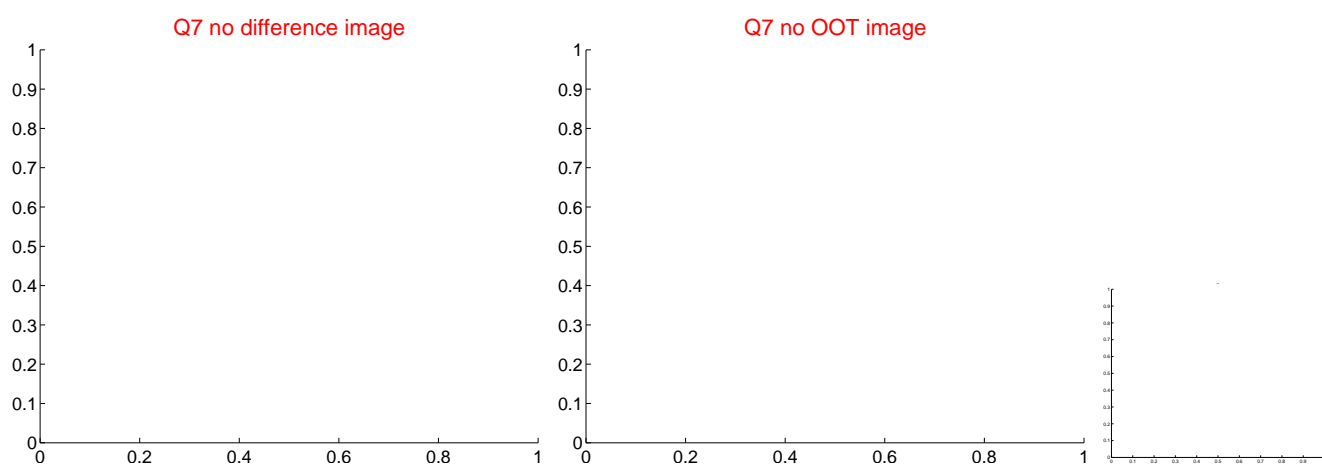
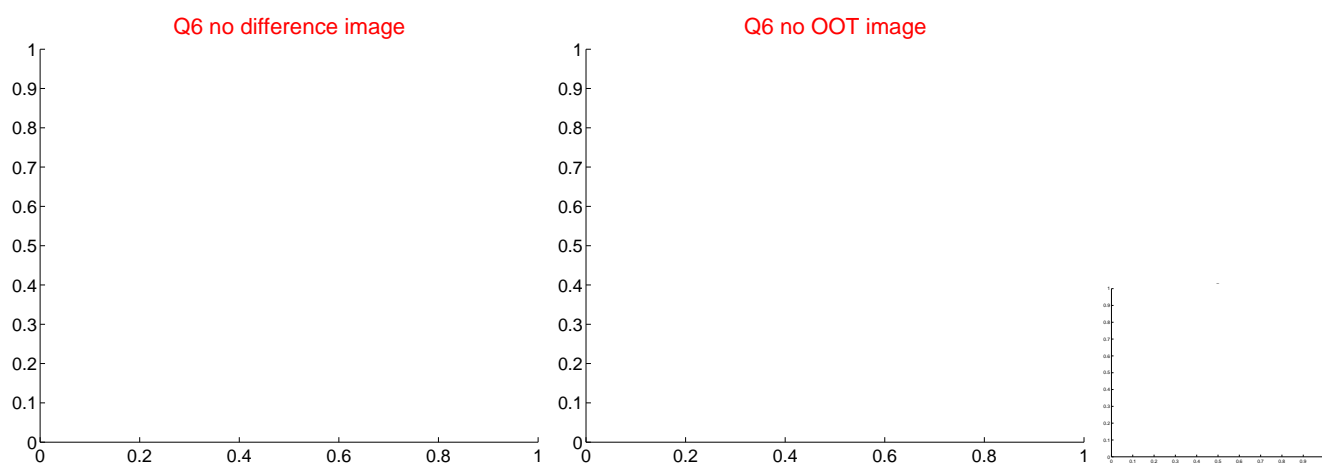
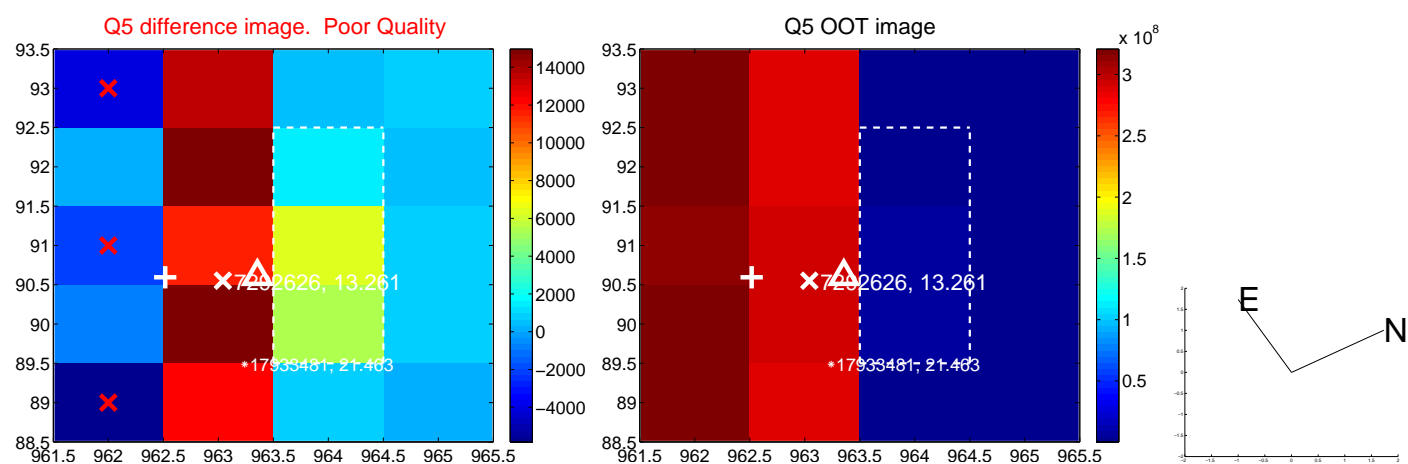


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



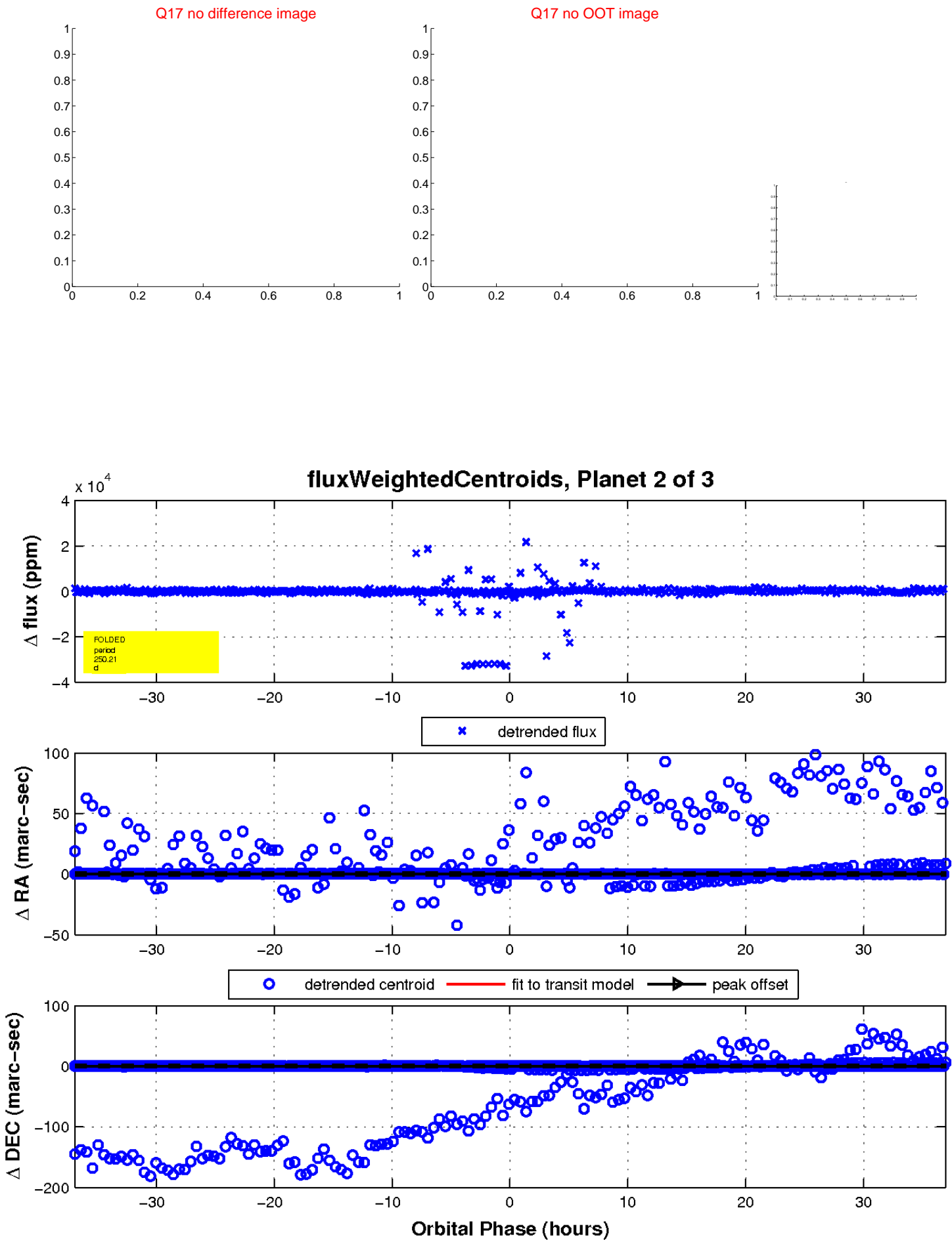
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

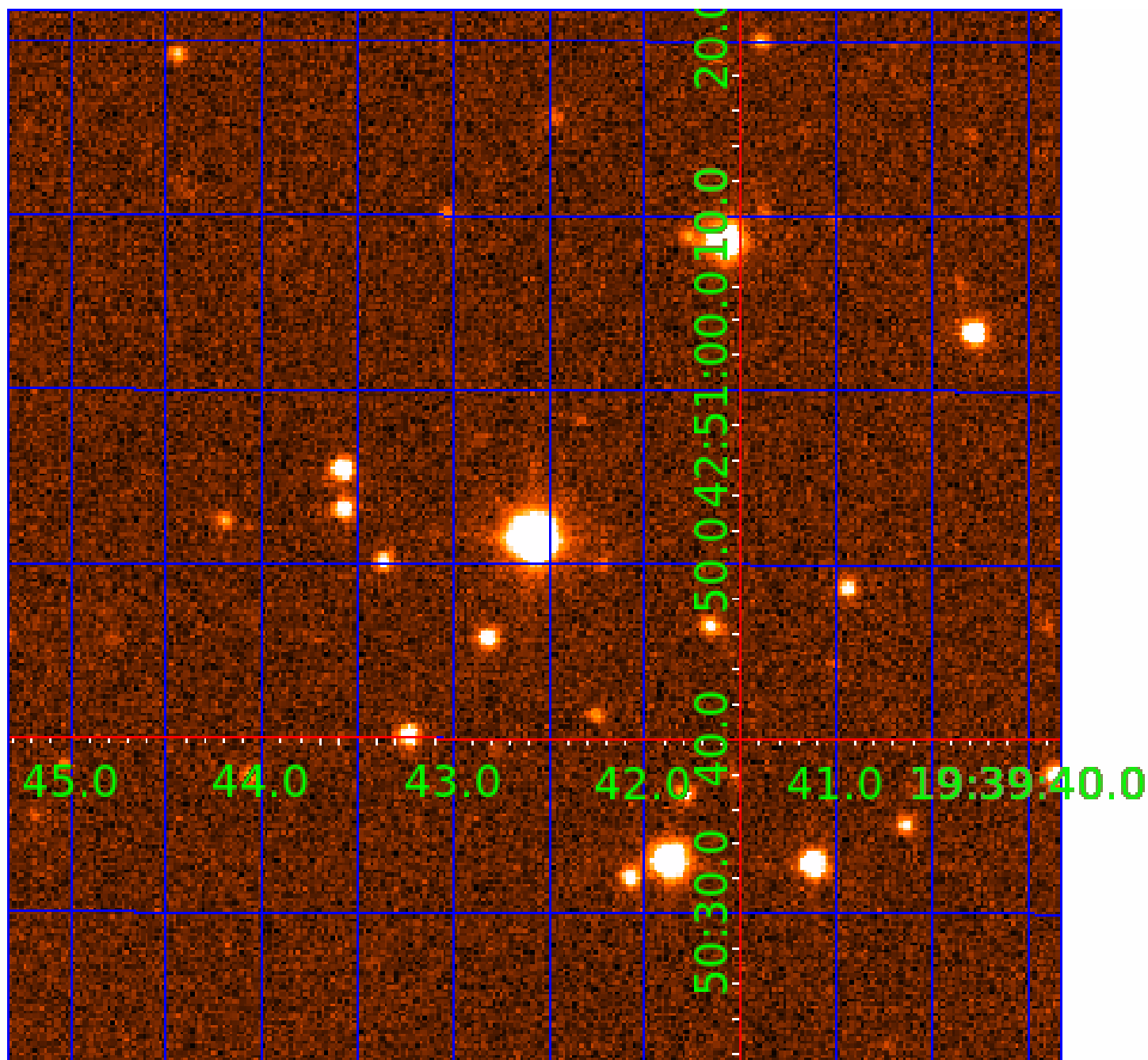


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007292626

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})
007292626-01	OBS	No	204.786260	250.923054	122502.0	0.834	944.9	465.1	0.99	6389	38.87	3.08
007292626-02	OBS	No	250.212835	219.951249	760.7	12.337	110.1	6.5	0.99	6389	3.81	2.36
007292626-03	OBS	No	397.940188	197.045266	165.2	12.313	60.2	2.4	0.99	6389	1.42	1.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007292626-01	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_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_DIFFS—HALO_GHOST
007292626-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
007292626-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS

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

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

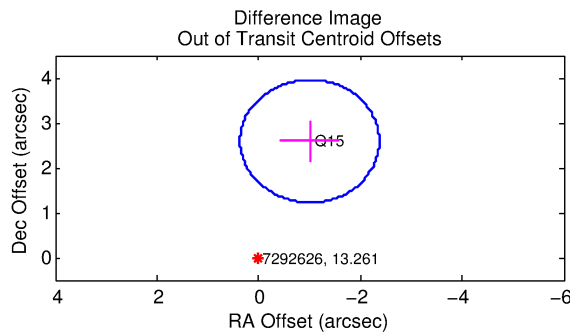
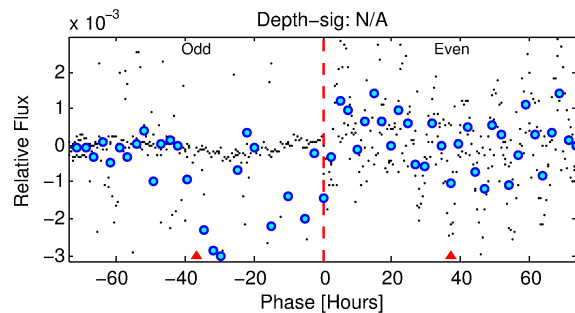
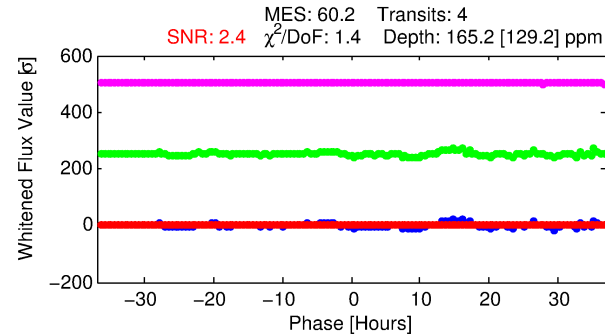
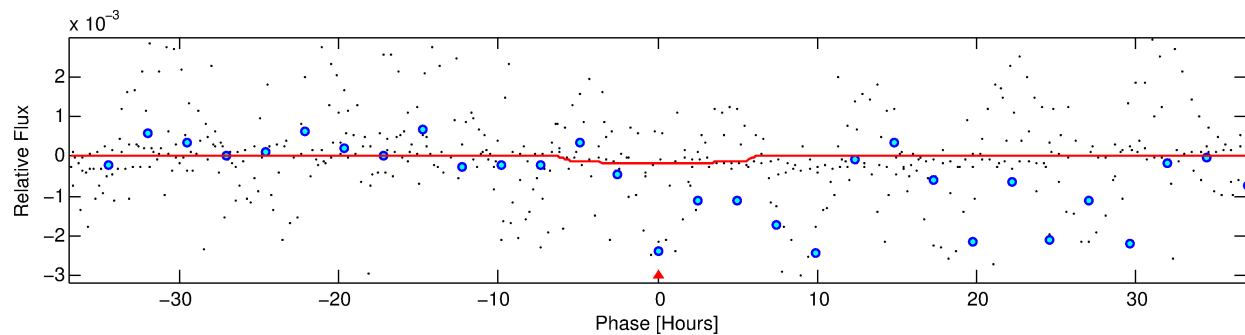
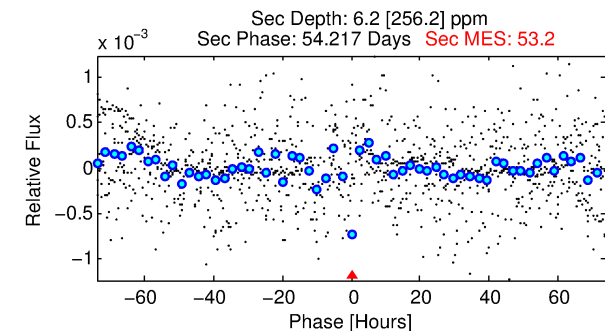
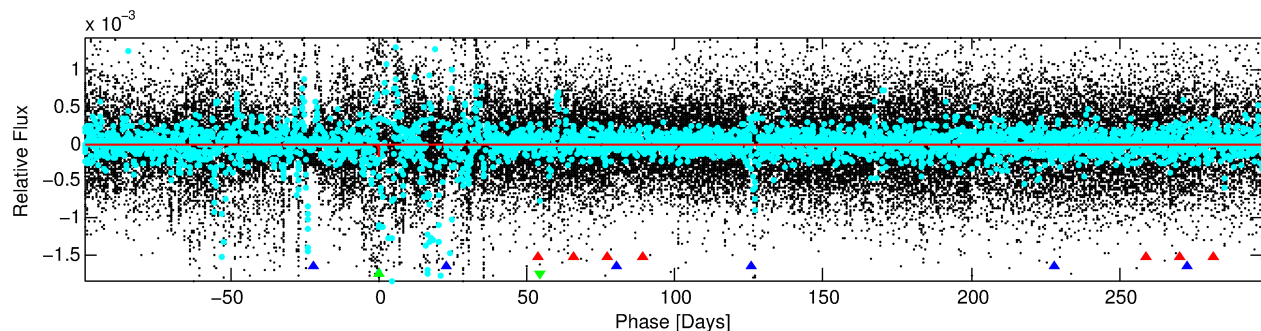
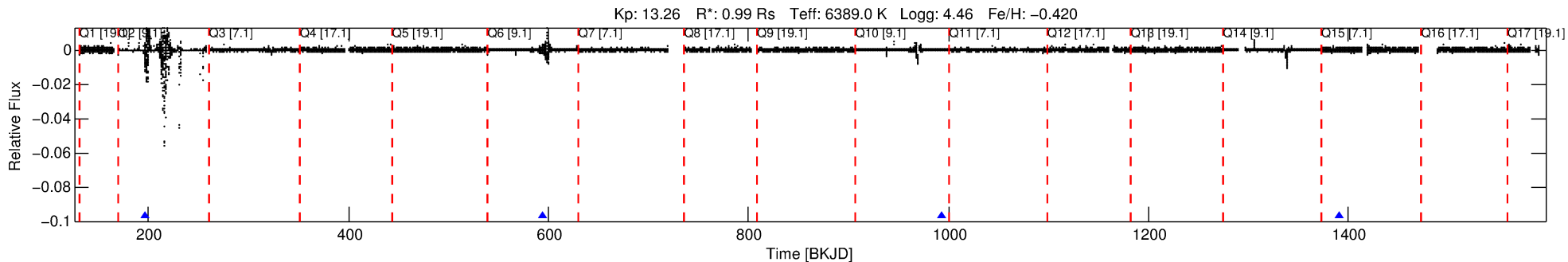
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007292626-03

No Significant Match Found

DV One-Page Summary

KIC: 7292626 Candidate: 3 of 3 Period: 397.940 d



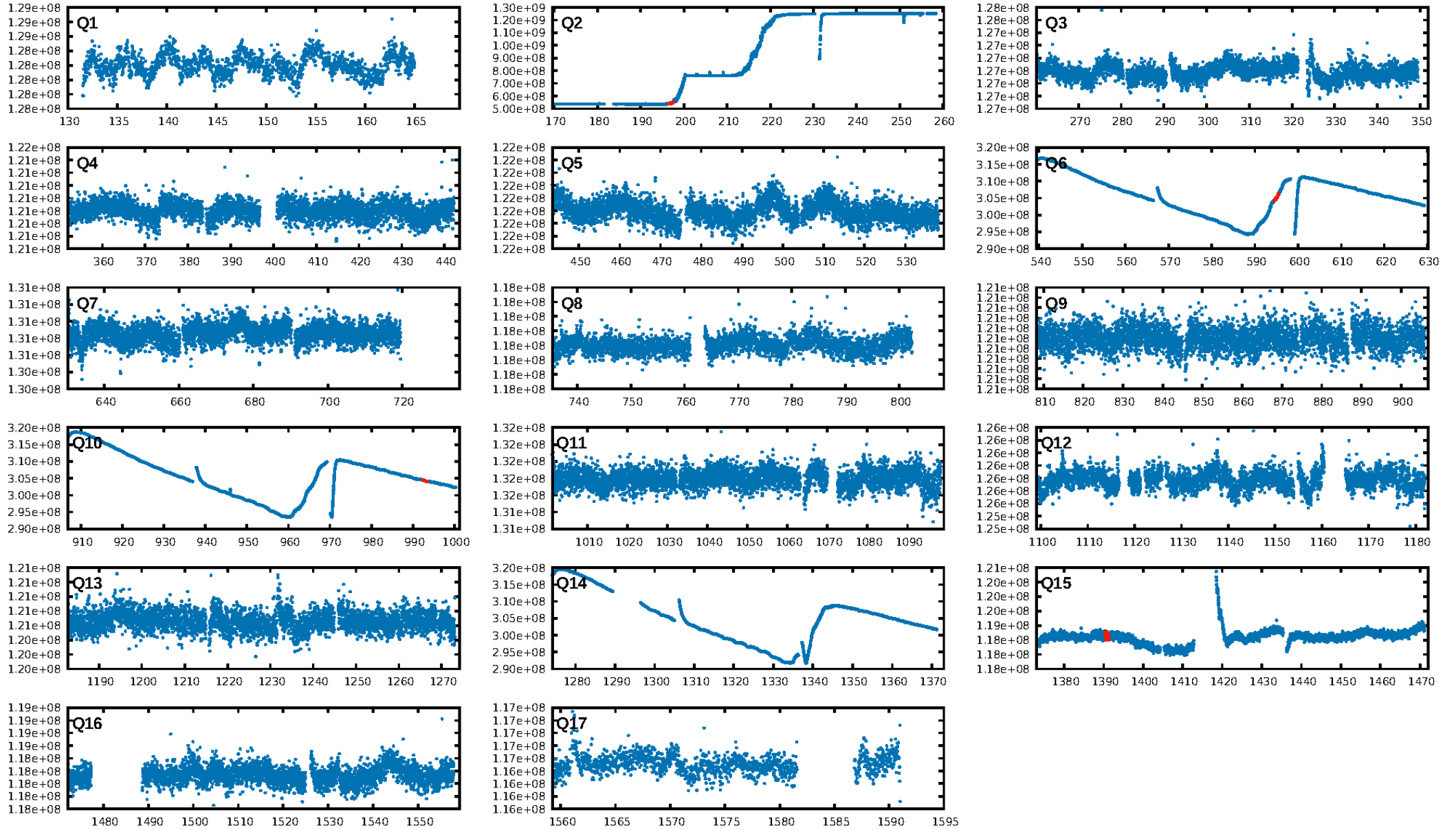
DV Fit Results:

Period = 397.94019 [0.05563] d
Epoch = 197.0453 [0.0978] BKJD
Rp/R* = 0.0132 [0.0132]
a/R* = 142.42 [692.55]
b = 0.83 [1.80]
Seff = 1.27 [0.53]
Teq = 271 [28] K
Rp = 1.42 [1.50] Re
a = 1.0709 [0.2933] AU
Ag = 1916.57 [79921.82] [0.02σ]
Teffp = 2770 [28872] K [0.09σ]

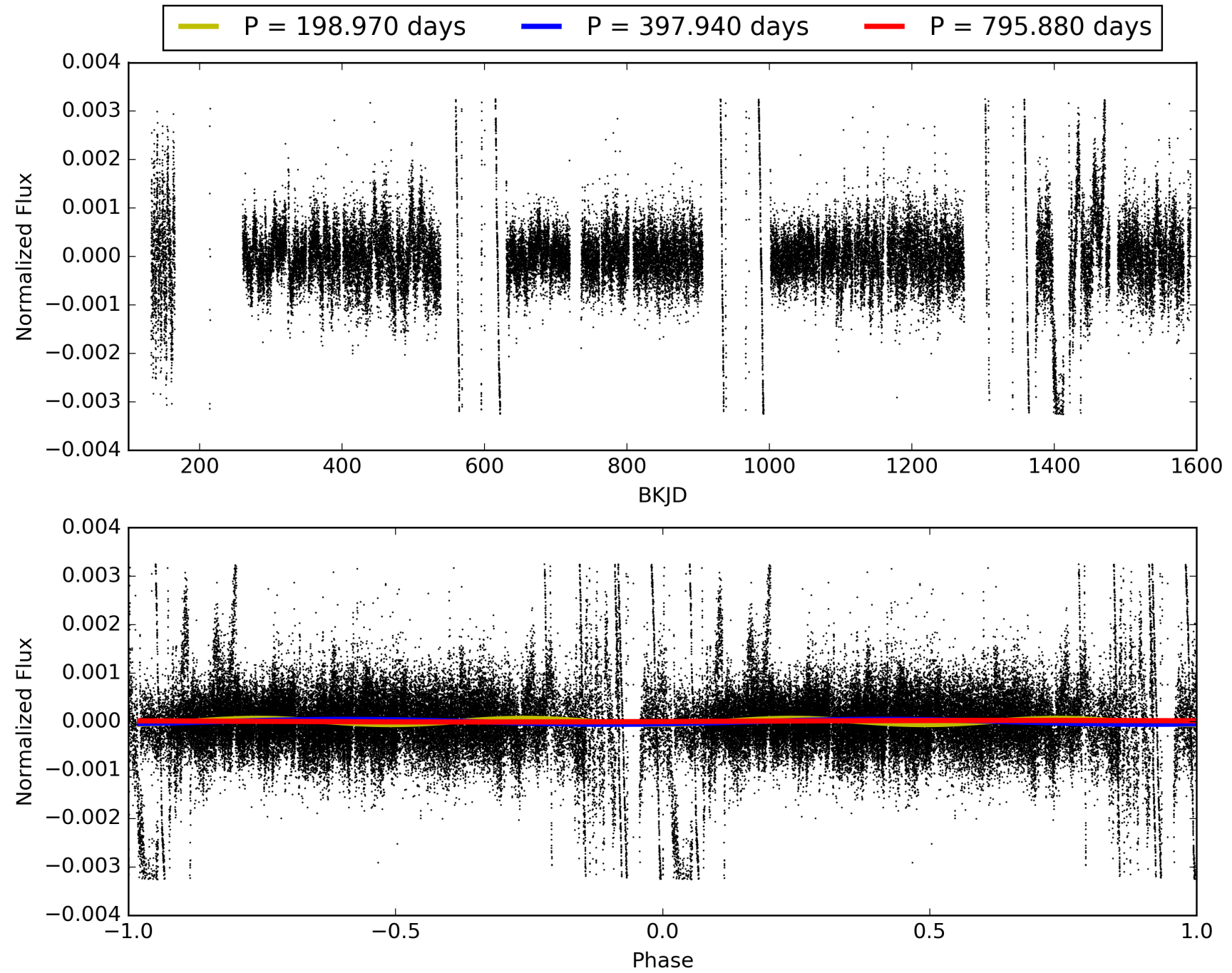
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [203.41σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 14.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.788
Centroid-sig: 2.7%
Centroid-so: 1.582 arcsec [3.77σ]
OotOffset-rm: 2.776 arcsec [6.10σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-rm: 1.115 arcsec [2.10σ]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [4/4]

TCE 007292626-03, PDC Light Curves

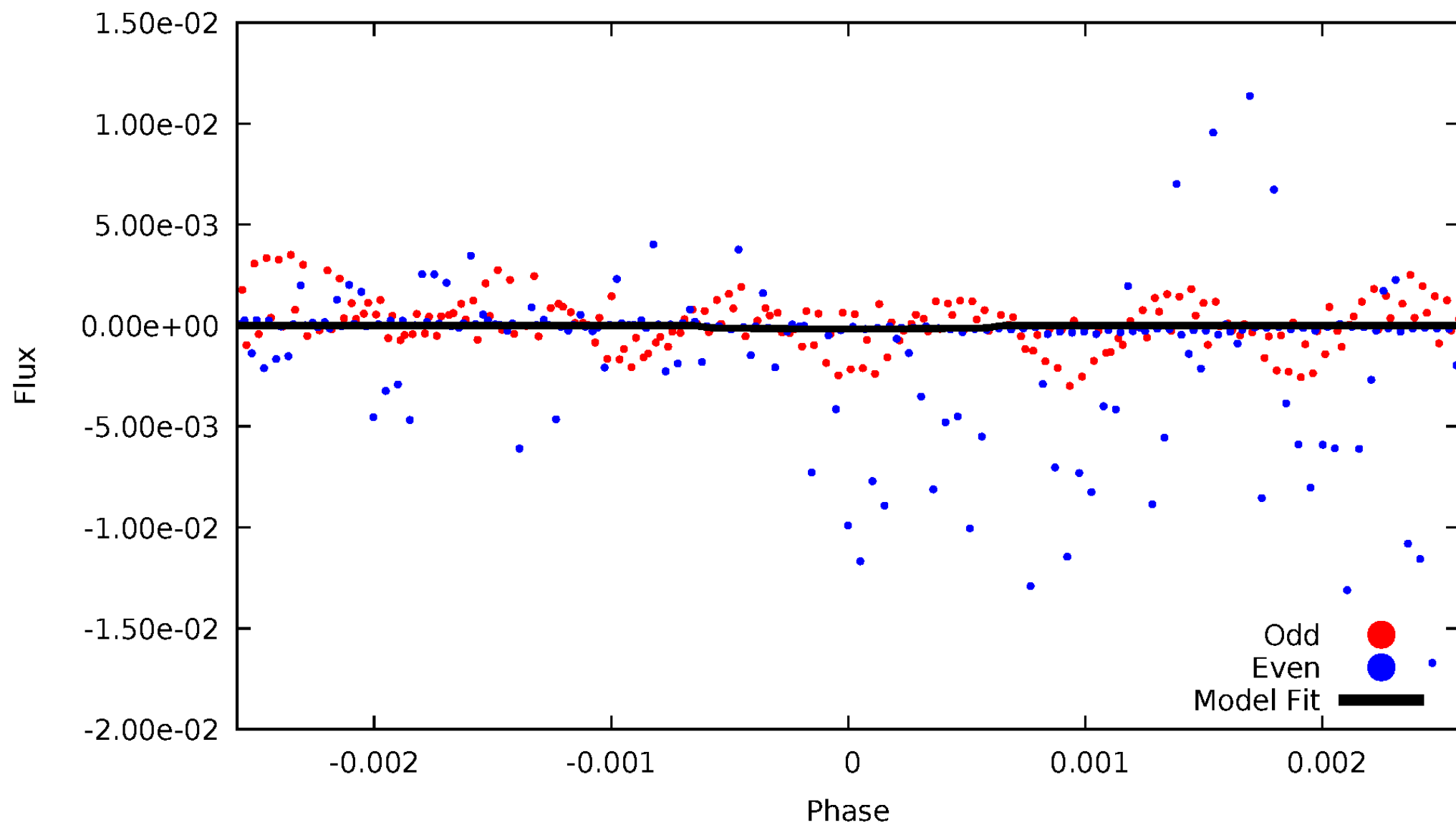


TCE 007292626-03



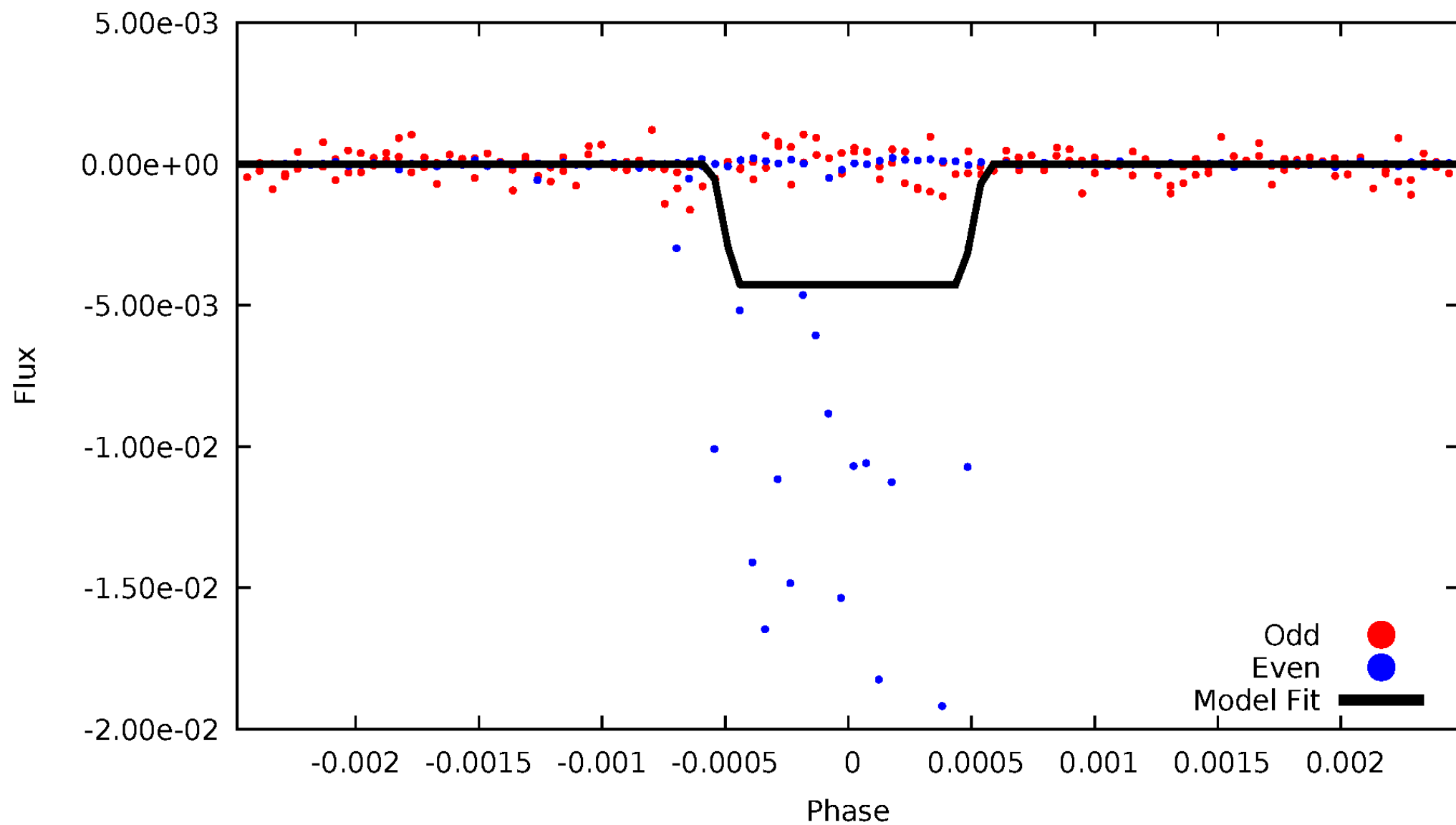
DV Odd/Even

TCE 007292626-03



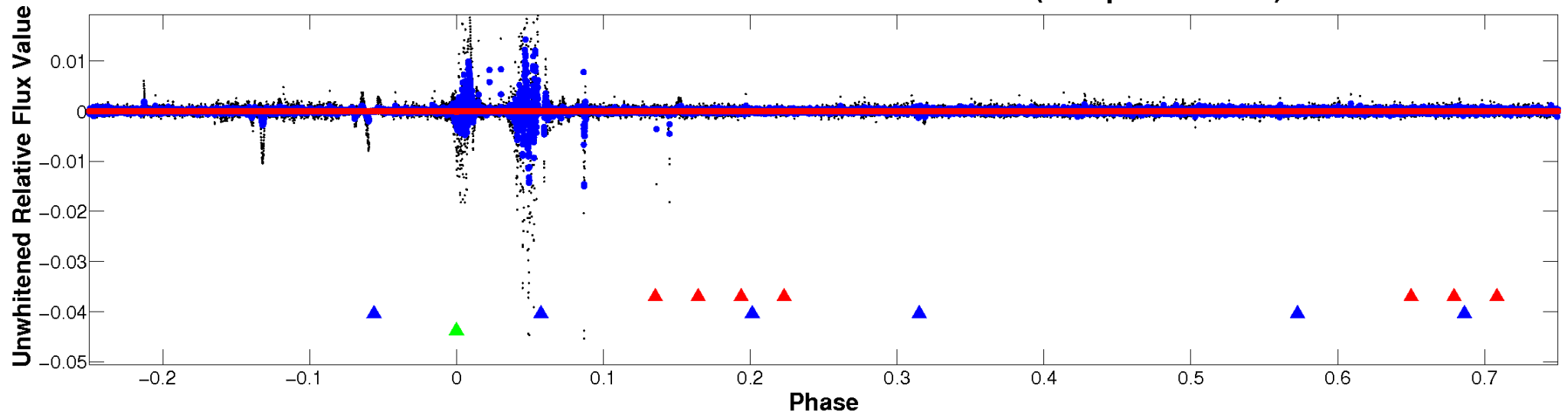
ALT Odd/Even

TCE 007292626-03

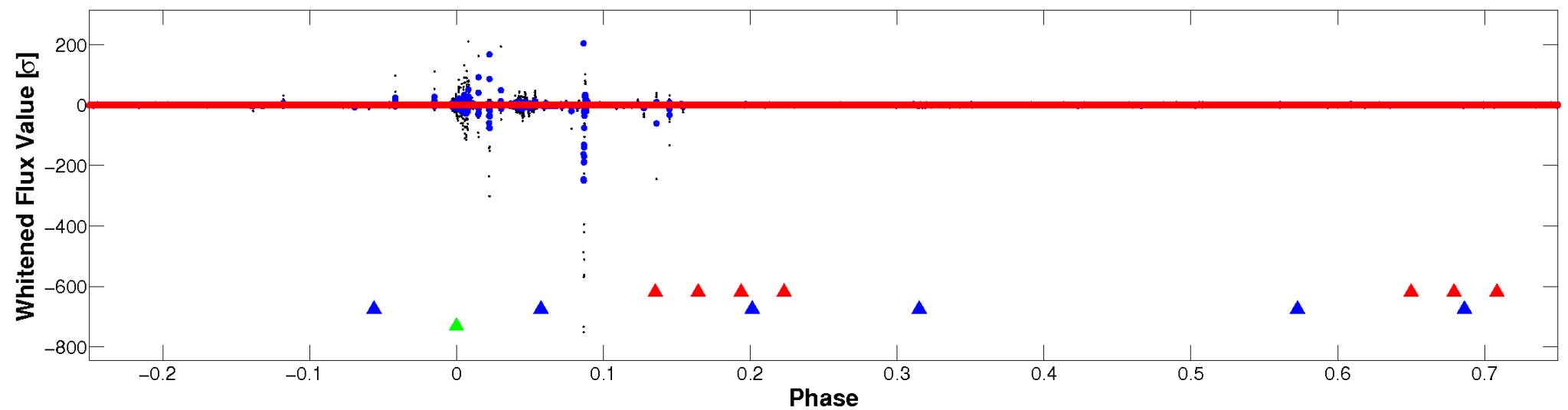


Non-Whitened Vs. Whitened Light Curve

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

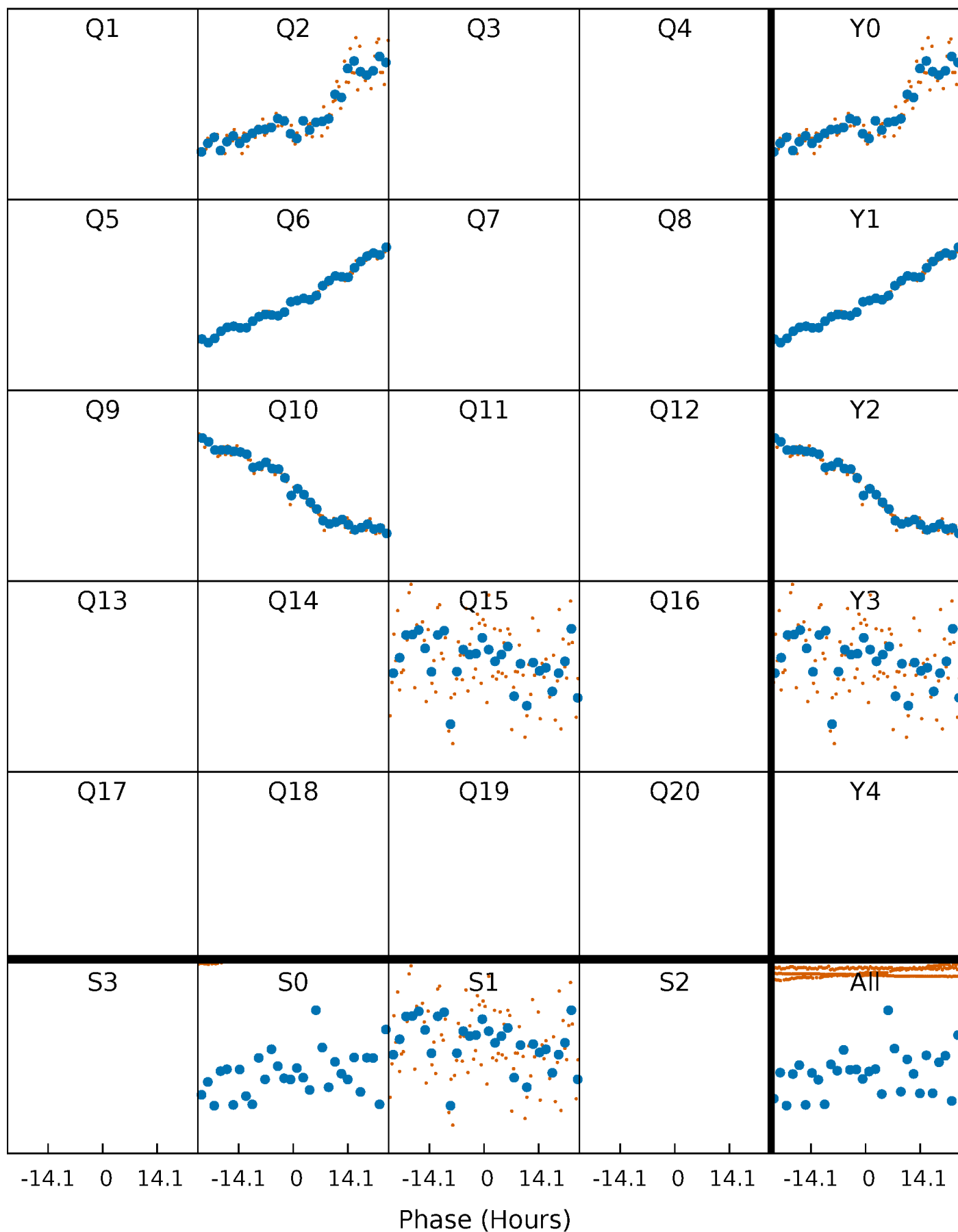


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



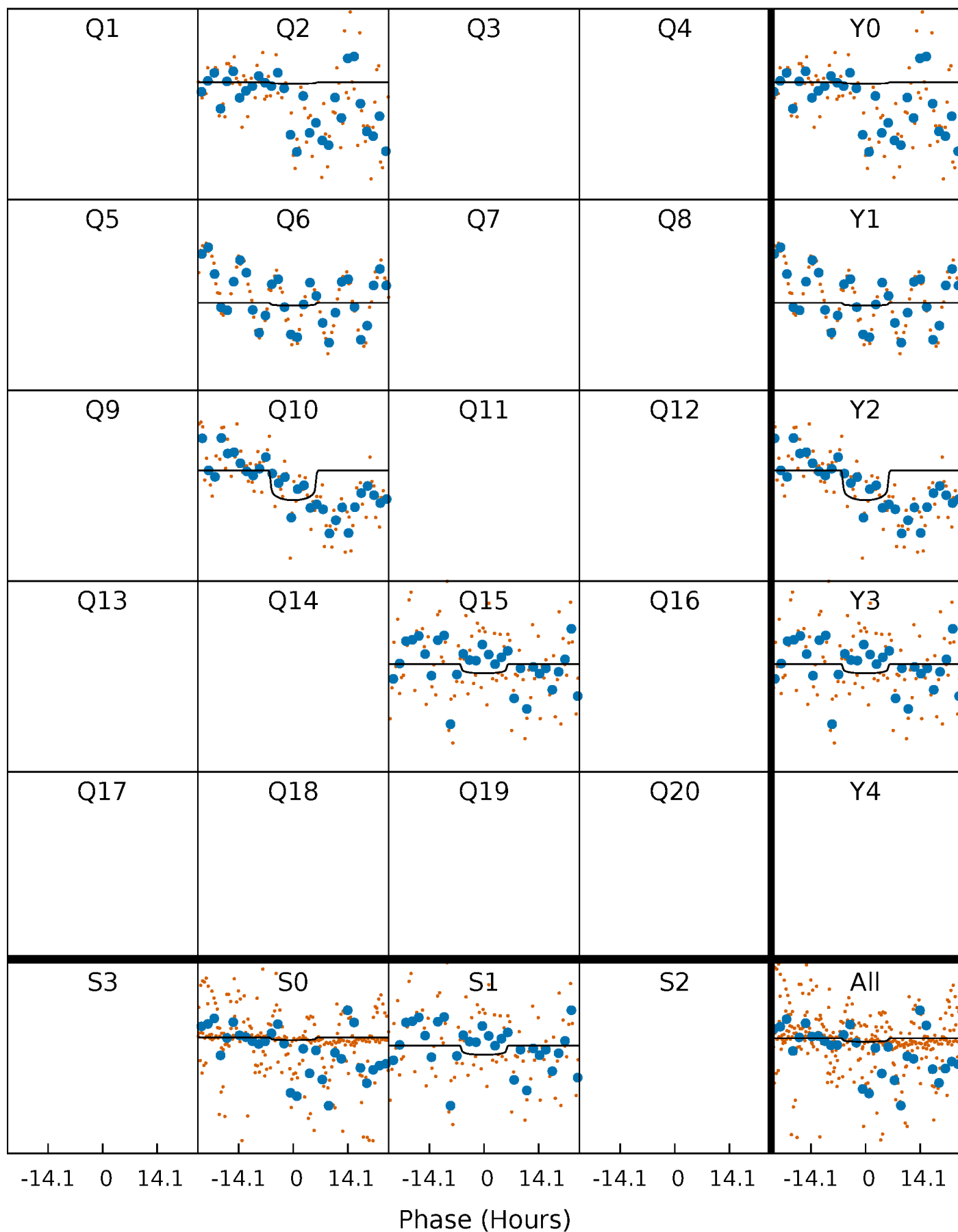
PDC Quarter-Phased Transit Curves

TCE 007292626-03 P=397.940188 Days $T_0=197.045266$ (BKJD)



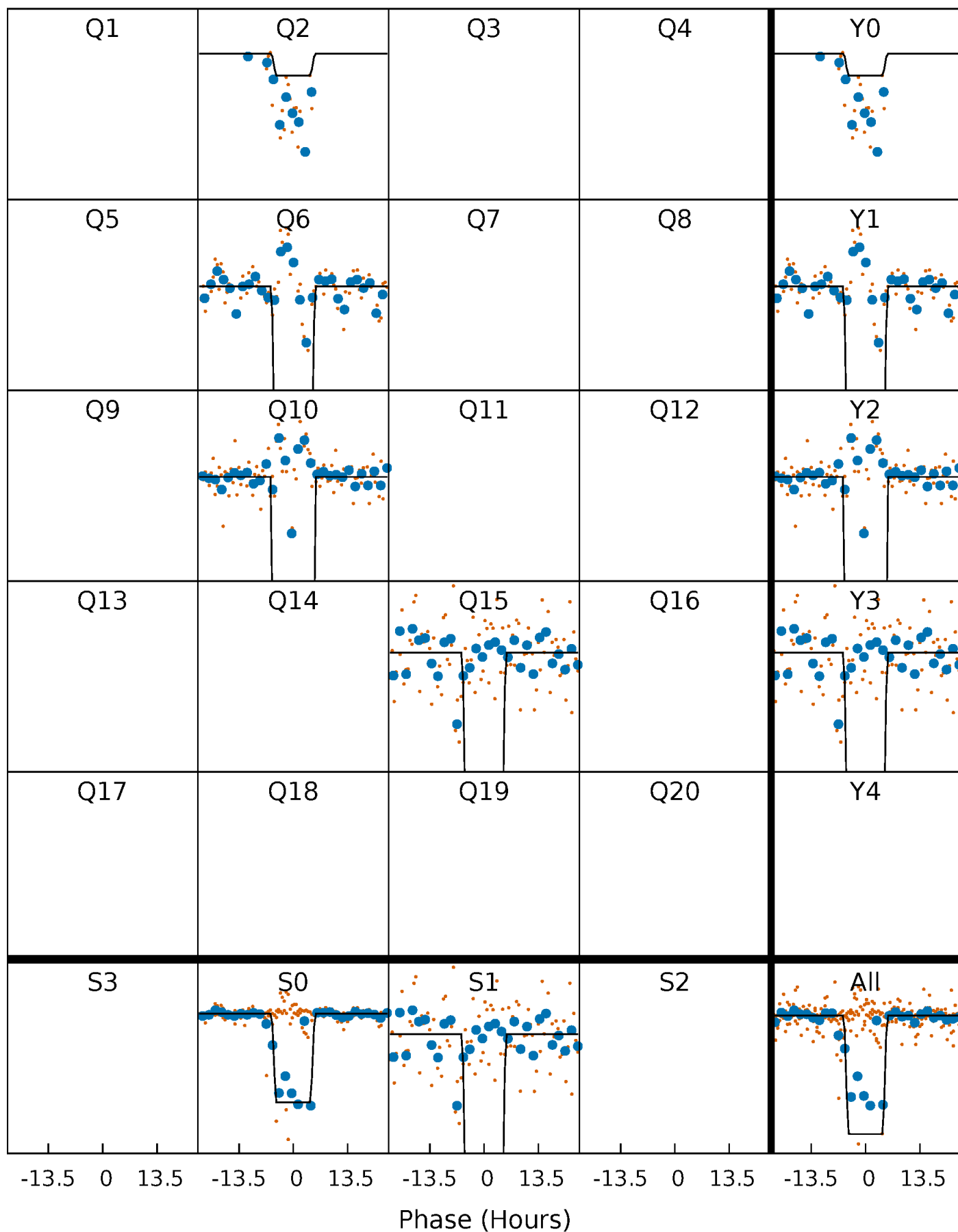
DV Quarter-Phased Transit Curves

TCE 007292626-03 $P=397.940188$ Days $T_0=197.045266$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

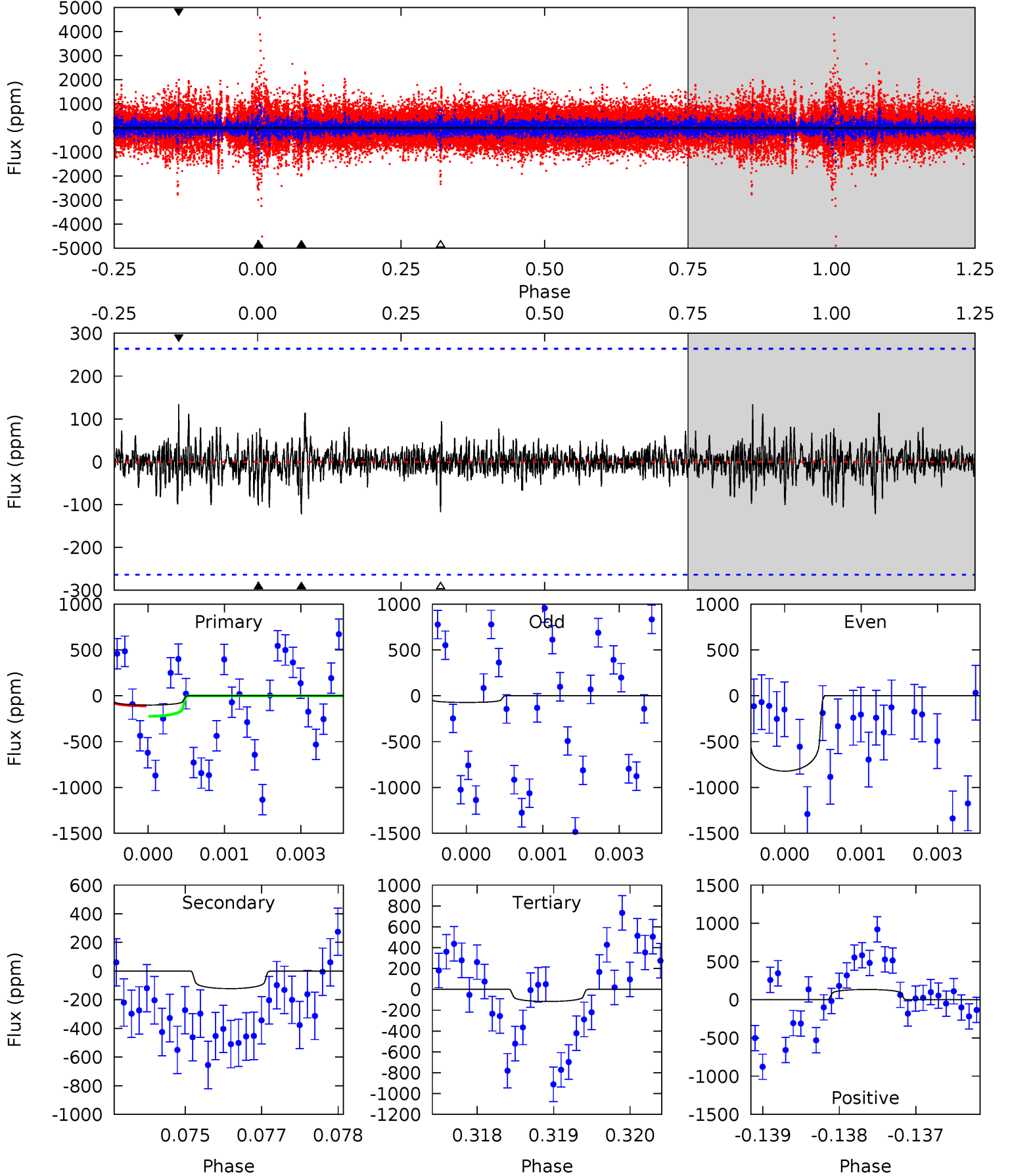
TCE 007292626-03 $P=397.861847$ Days $T_0=197.199797$ (BKJD)



DV Model-Shift Uniqueness Test

007292626-03, P = 397.940188 Days, E = 197.045266 Days

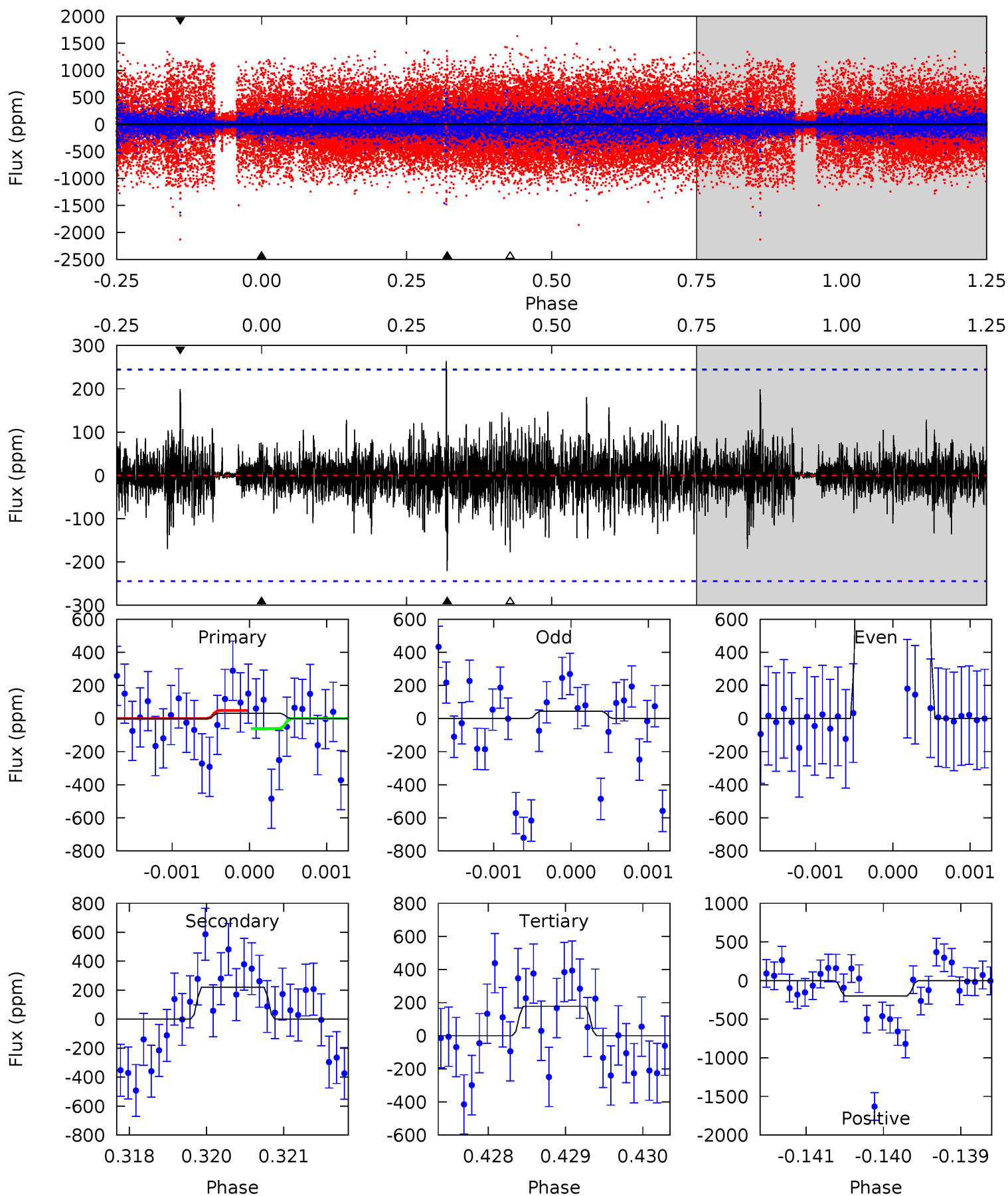
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.08	2.51	2.38	2.75	5.40	3.22	0.51	-0.30	-0.67	0.12	-0.24	3.93	6.20	0.52	0



Alt Model-Shift Uniqueness Test

007292626-03, P = 397.861847 Days, E = 197.199797 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.70	4.90	3.95	4.43	5.44	3.27	0.90	-3.26	-3.73	0.95	0.47	25.4	-104.9	0.55	0.13



Stellar Parameters For KIC 007292626

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6389^{+158}_{-190}	$4.463^{+0.054}_{-0.216}$	$-0.420^{+0.300}_{-0.350}$	$0.988^{+0.323}_{-0.101}$	$1.034^{+0.132}_{-0.132}$	$1.513^{+0.427}_{-0.797}$
	+2%/-3%	+1%/-5%	+71%/-83%	+33%/-10%	+13%/-13%	+28%/-53%
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 007292626-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-122 ± 49	$1.78^{+1.57}_{-1.15}$	386^{+28}_{-18}	5332^{+4213}_{-1209}	$23138^{+156110}_{-17110}$
Alt.	-220 ± 45	$7.33^{+2.03}_{-1.51}$	387^{+32}_{-19}	3528^{+275}_{-249}	2517^{+1542}_{-1057}

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

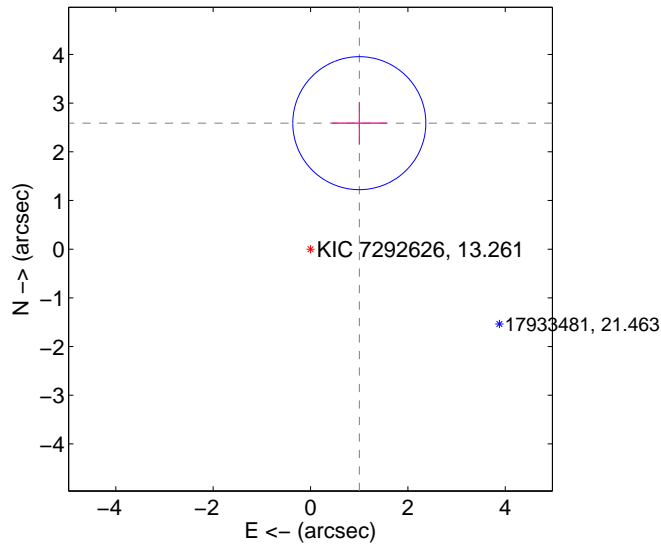
Supplemental centroid analysis for 007292626-03. Kepler magnitude: 13.26. Transit SNR 2.37

There are 0 quarters with good PRF difference image offsets

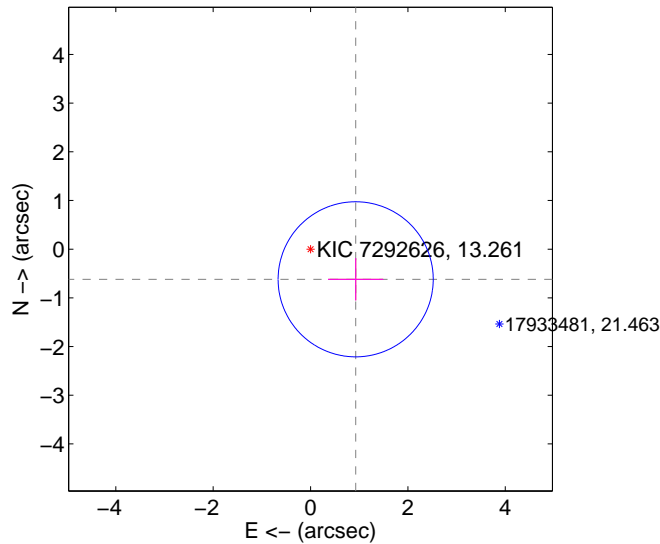
The OOT PRF centroid is offset from the target star catalog position by about 3.21 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.776 ± 0.455	6.10	-1.002 ± 0.568	2.589 ± 0.436
PRF-fit source offset from KIC position	1.115 ± 0.531	2.10	-0.927 ± 0.568	-0.619 ± 0.436
photometric centroid source offset	1.58 ± 0.42	3.77	1.58 ± 0.42	0.06 ± 0.40

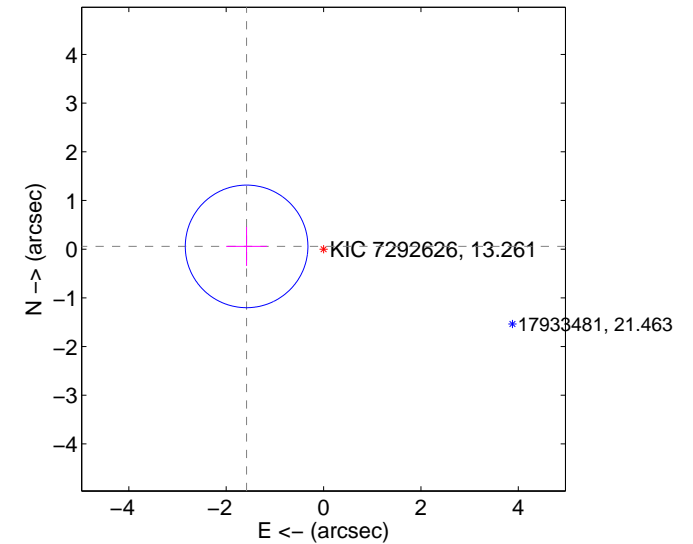
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids



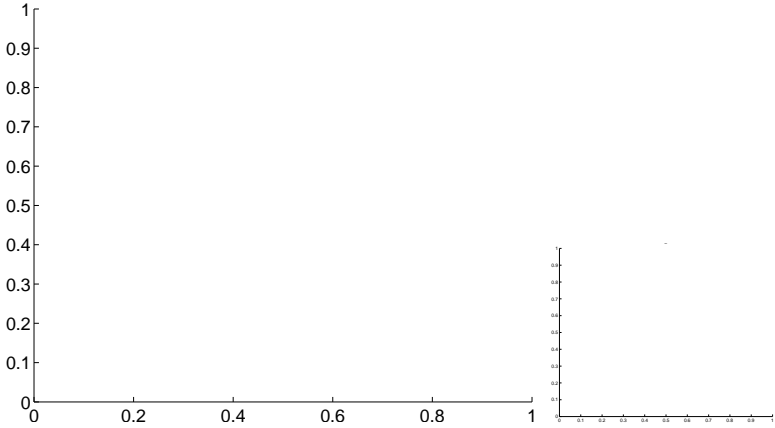
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

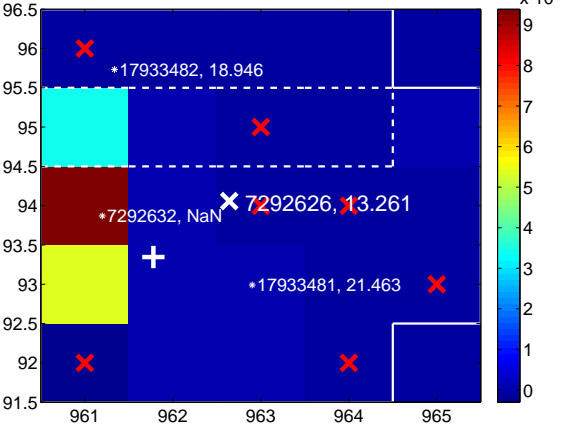
Q1 no difference image



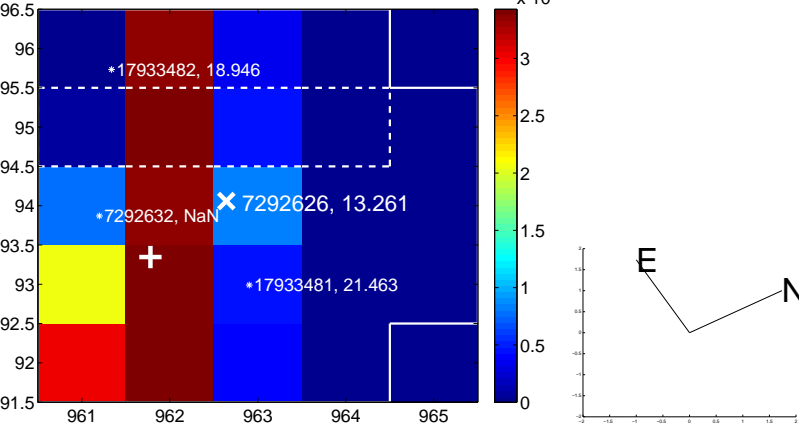
Q1 no OOT image



Q2 difference image. Poor Quality



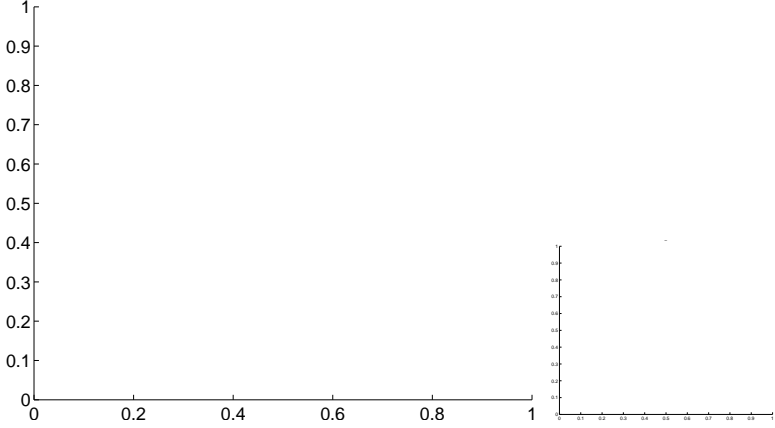
Q2 OOT image



Q3 no difference image



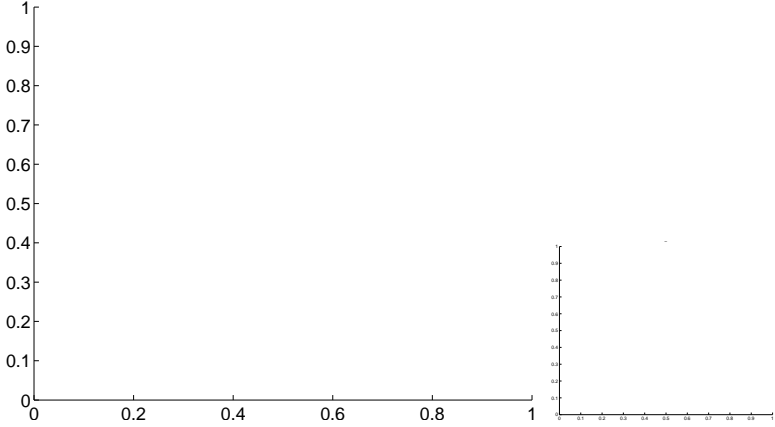
Q3 no OOT image



Q4 no difference image



Q4 no OOT image



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

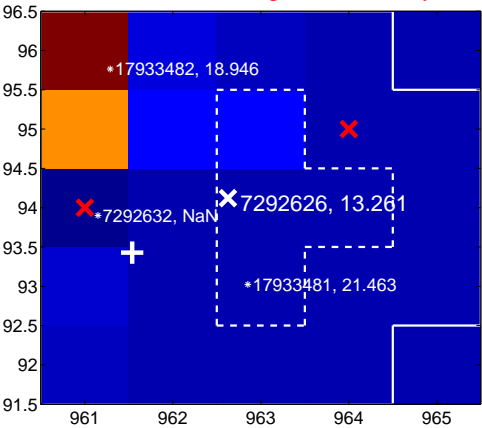
Q5 no difference image



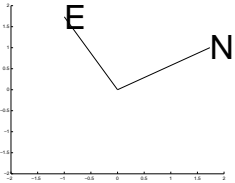
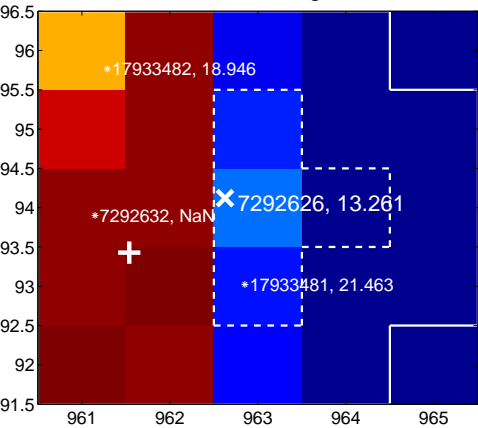
Q5 no OOT image



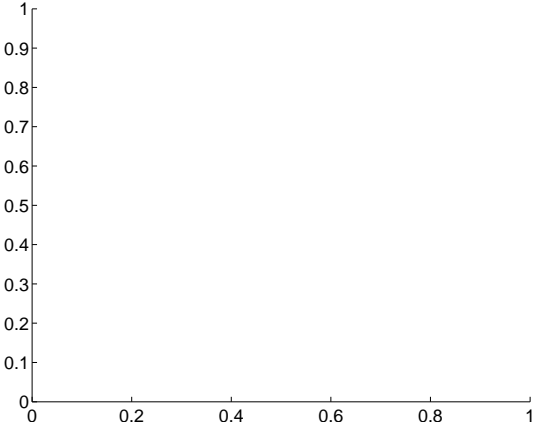
Q6 difference image. Poor Quality



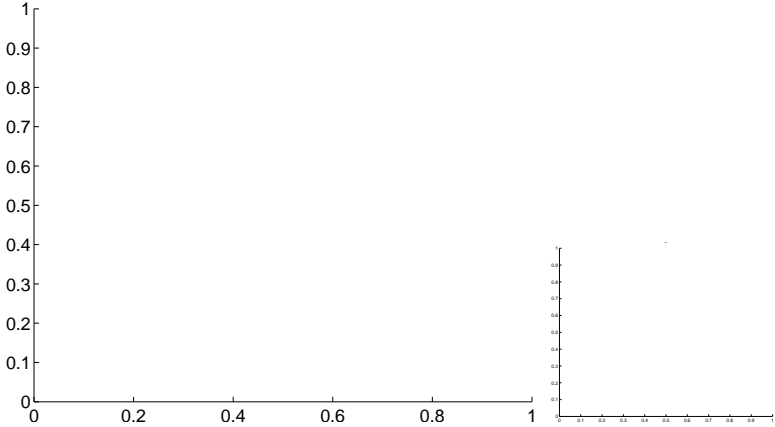
Q6 OOT image



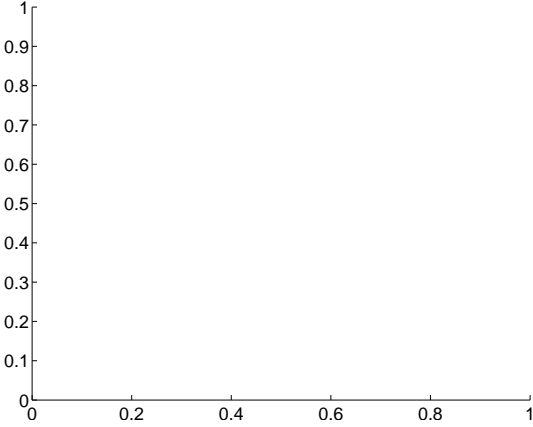
Q7 no difference image



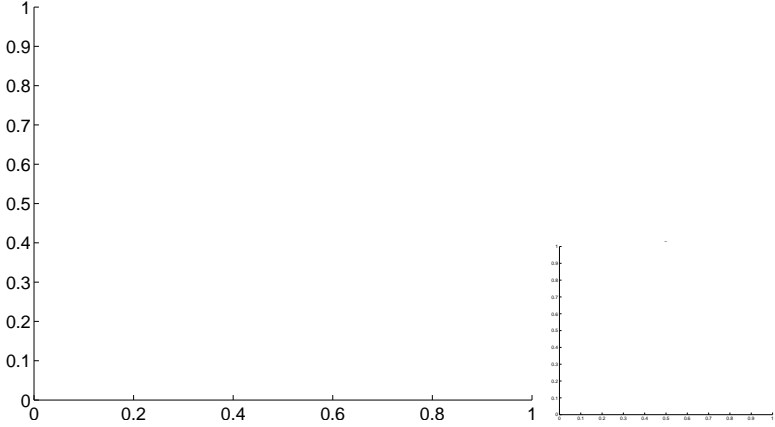
Q7 no OOT image



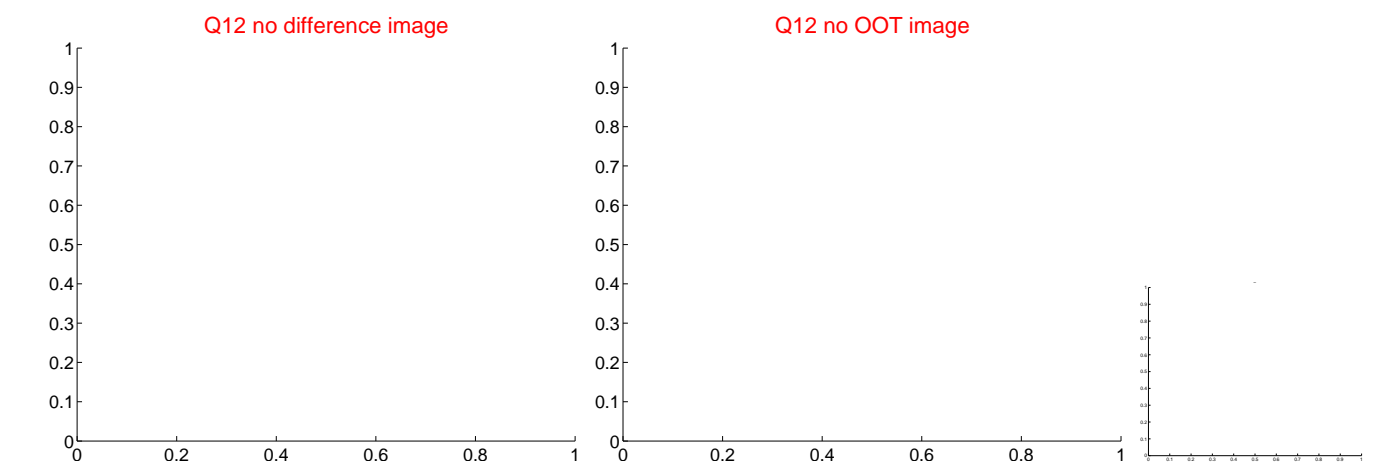
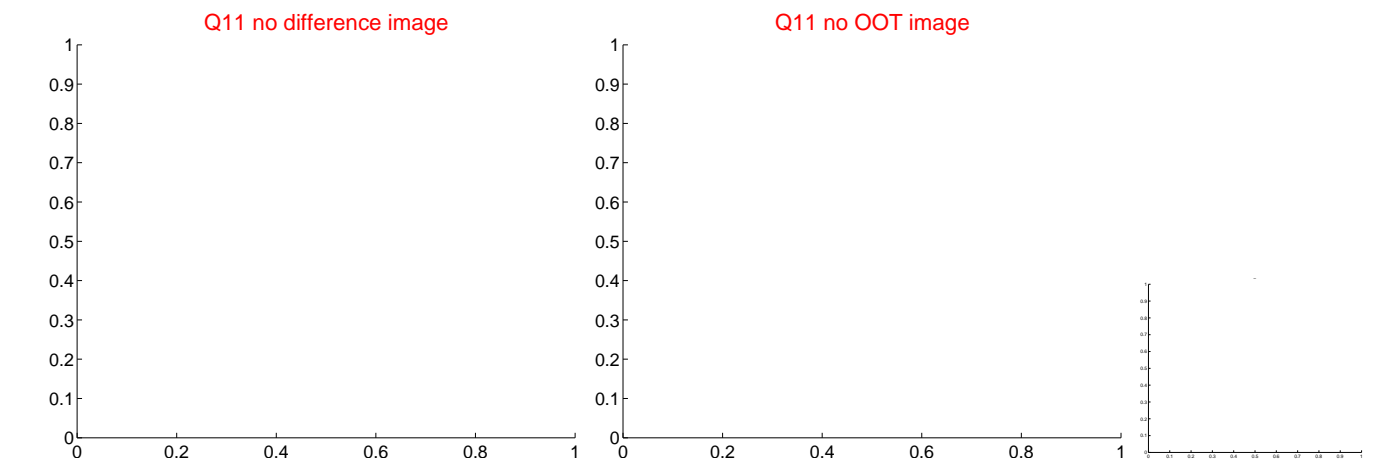
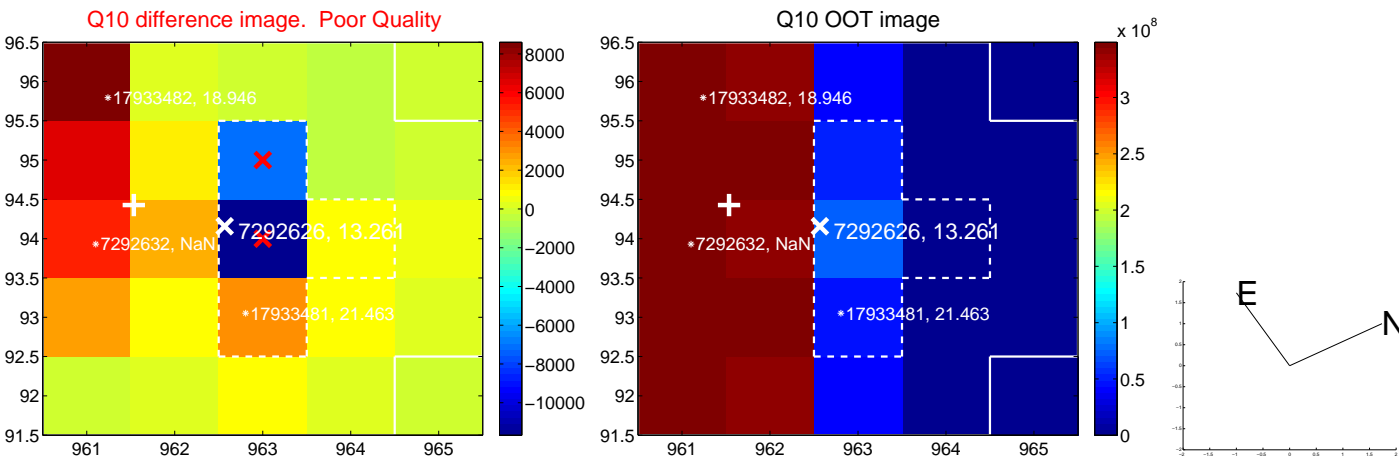
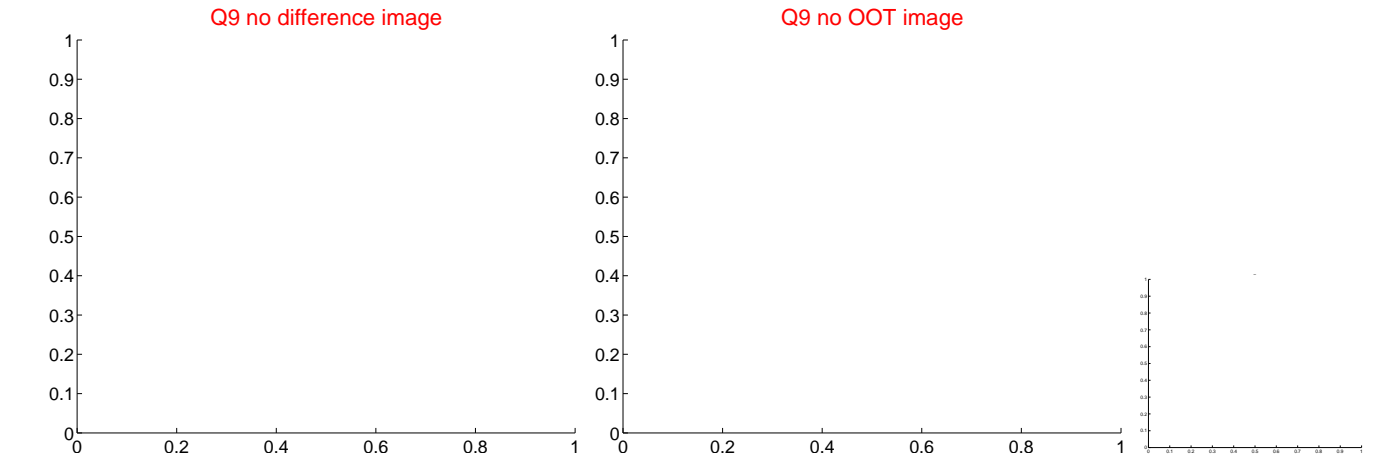
Q8 no difference image



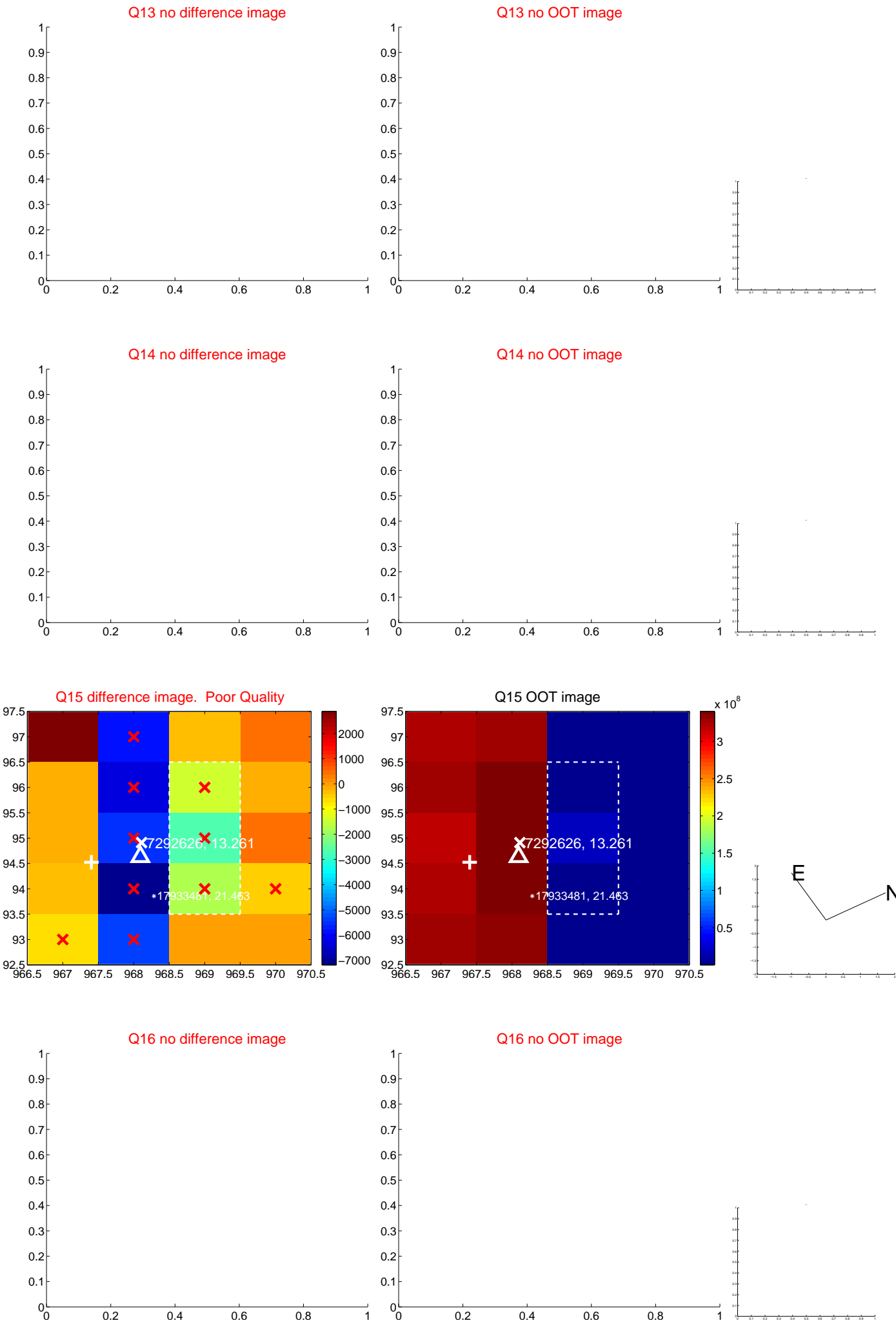
Q8 no OOT image



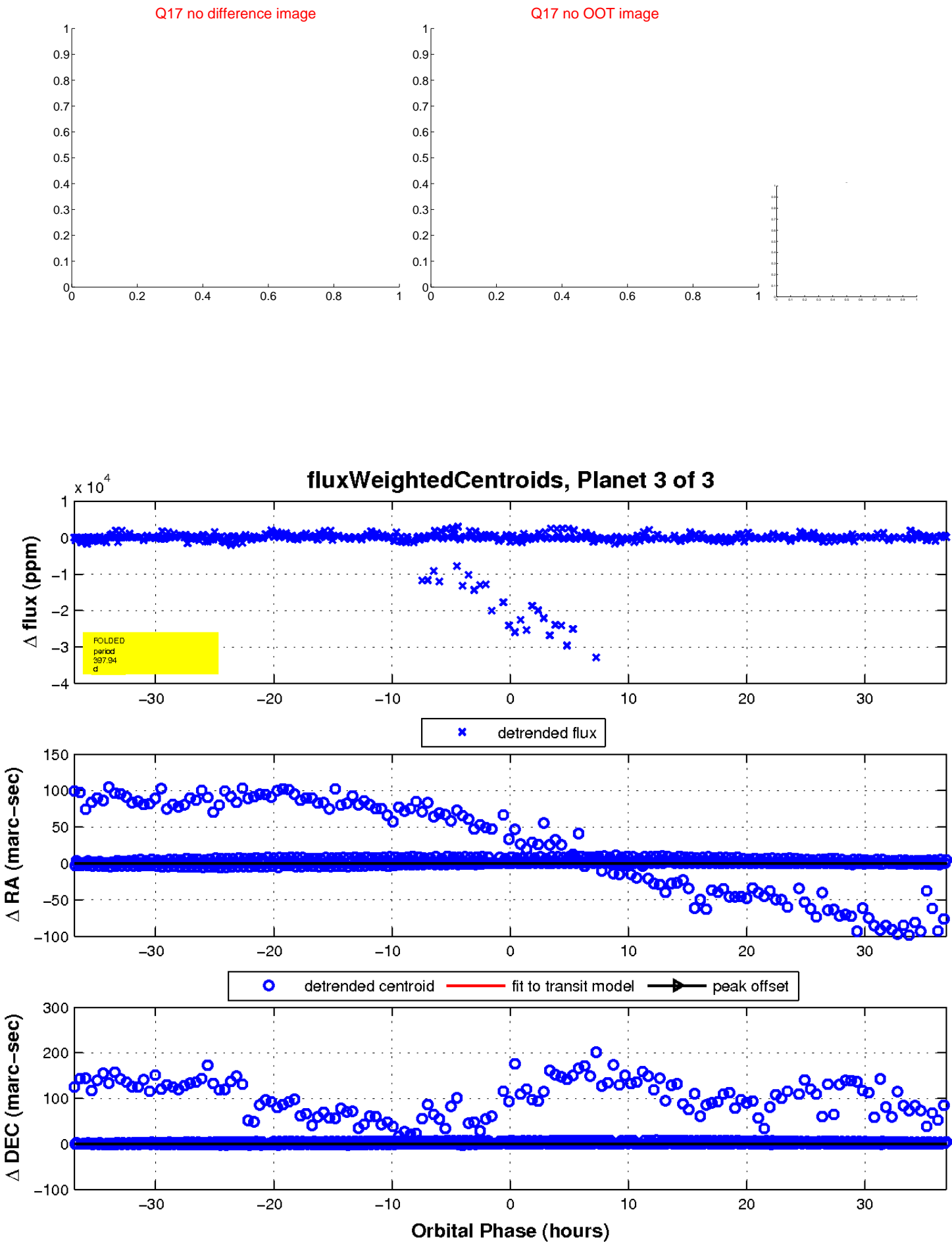
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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



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



UKIRT Image

Declination

