

KIC 004826257

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})
004826257-01	OBS	No	368.500495	174.134959	4805.4	24.139	51.7	17.4	1.03	6195	7.80	1.42
004826257-02	OBS	No	368.721938	178.525788	1324.6	3.000	11.2	-1.0	1.03	6195	3.76	1.42
004826257-03	OBS	No	364.169161	185.316196	5529.1	9.959	10.3	14.9	1.03	6195	9.21	1.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004826257-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
004826257-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
004826257-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—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.

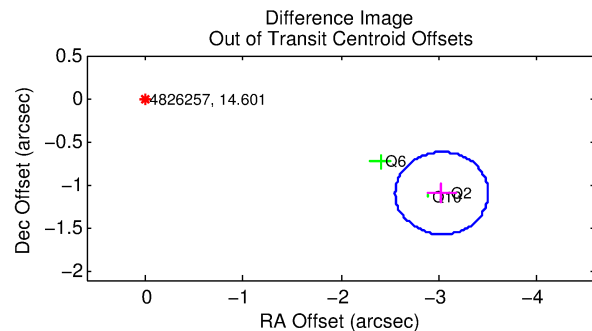
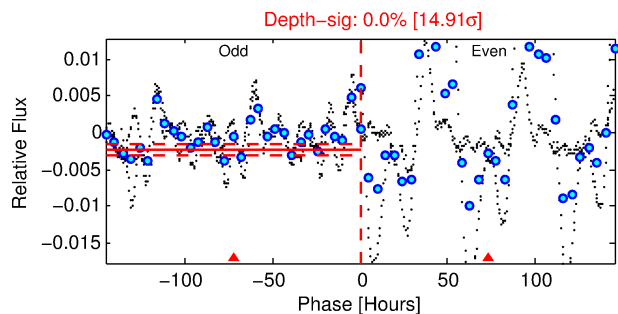
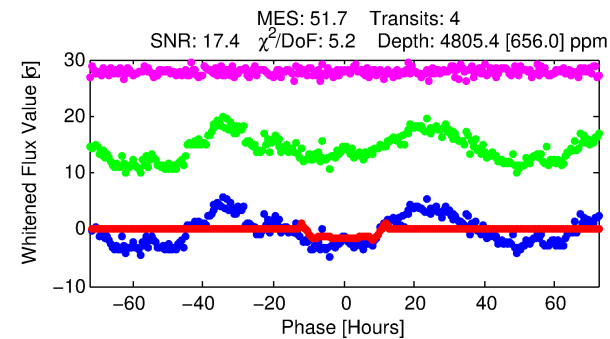
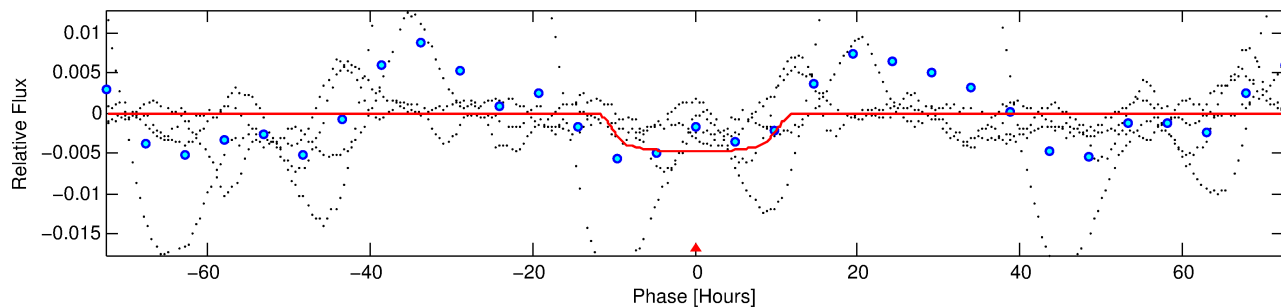
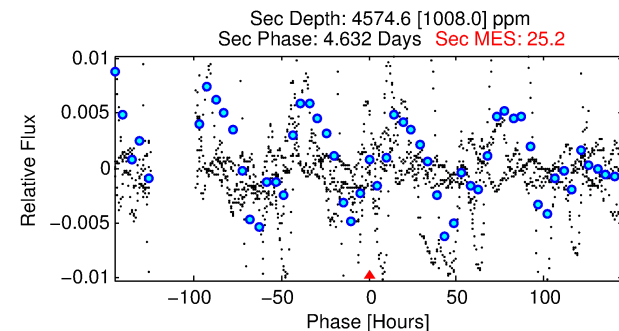
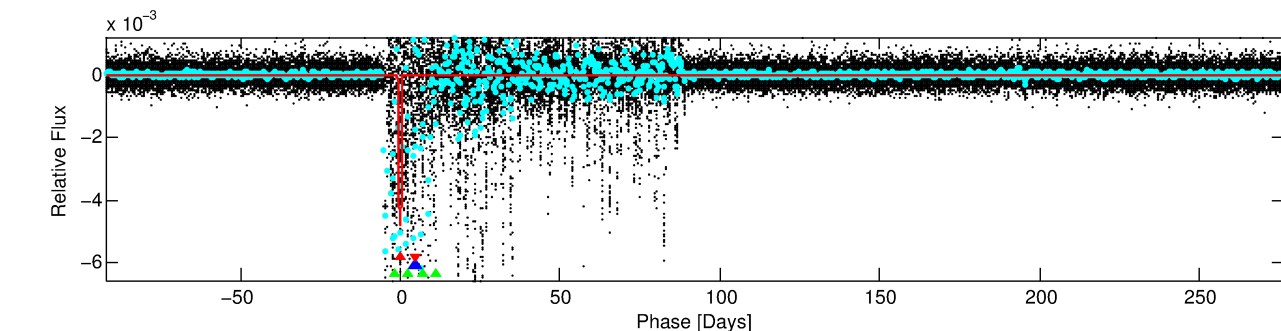
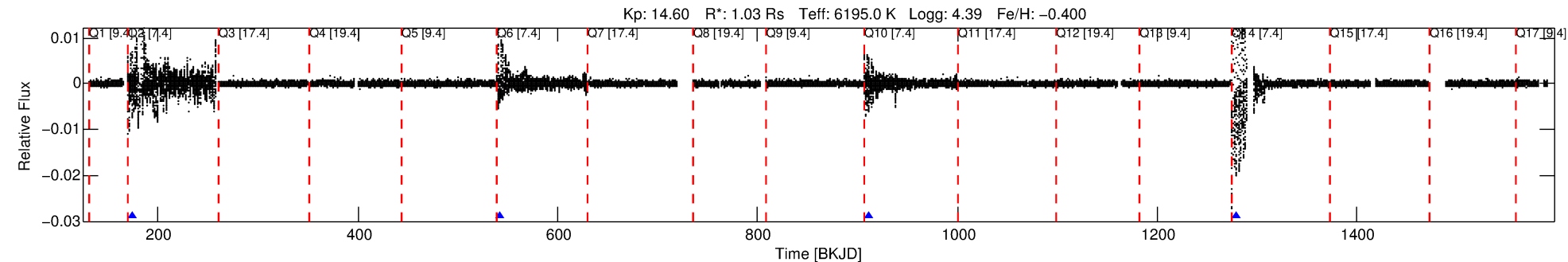
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004826257-01

No Significant Match Found

DV One-Page Summary

KIC: 4826257 Candidate: 1 of 3 Period: 368.500 d



DV Fit Results:

Period = 368.50050 [0.01604] d
Epoch = 174.1350 [0.0286] BKJD
Rp/R* = 0.0695 [0.0050]
a/R* = 86.38 [10.18]
b = 0.77 [0.06]
Seff = 1.42 [0.54]
Teq = 278 [27] K
Rp = 7.81 [2.37] Re
a = 0.9914 [0.2447] AU
Ag = 40605.80 [18033.48] [2.25σ]
Teffp = 6111 [450] K [12.94σ]

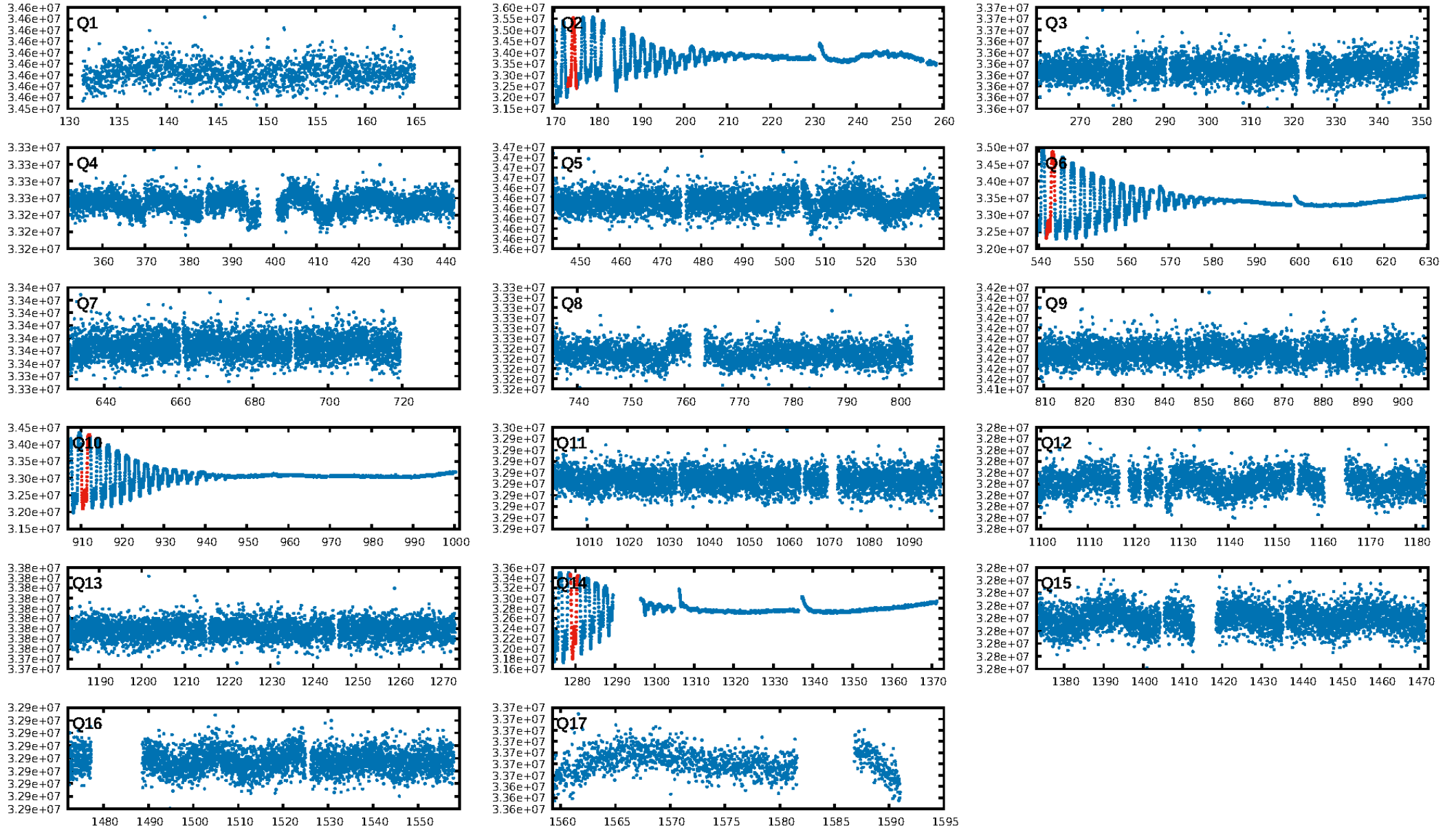
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [3.98σ]
LongPeriod-sig: 17.3% [0.22σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 3.633
Centroid-sig: N/A
Centroid-so: 3.466 arcsec [4.64σ]
OotOffset-rm: 3.221 arcsec [20.31σ]
KicOffset-rm: 3.021 arcsec [20.30σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 1.00 [3/3]

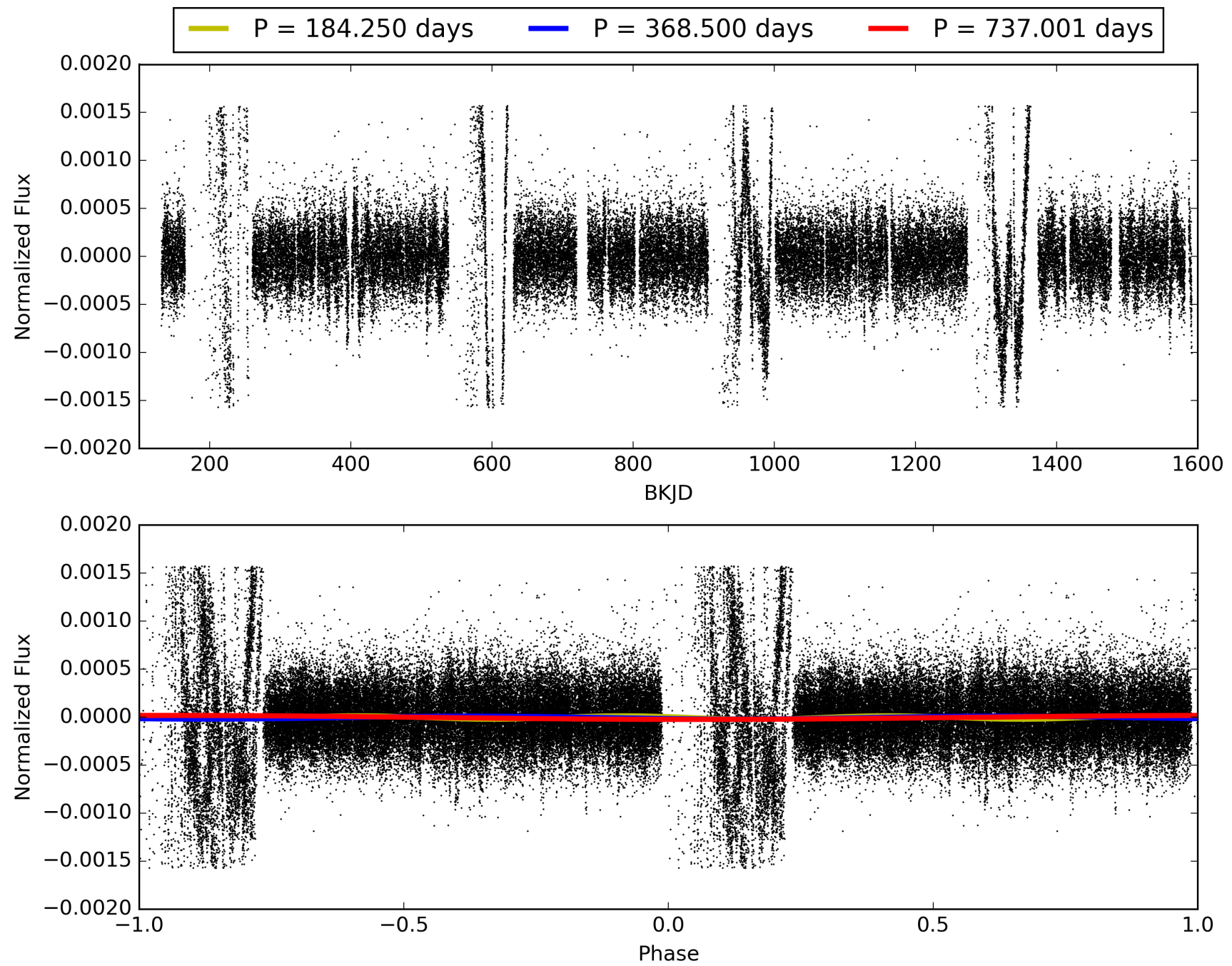
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:27:47 Z

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

TCE 004826257-01, PDC Light Curves

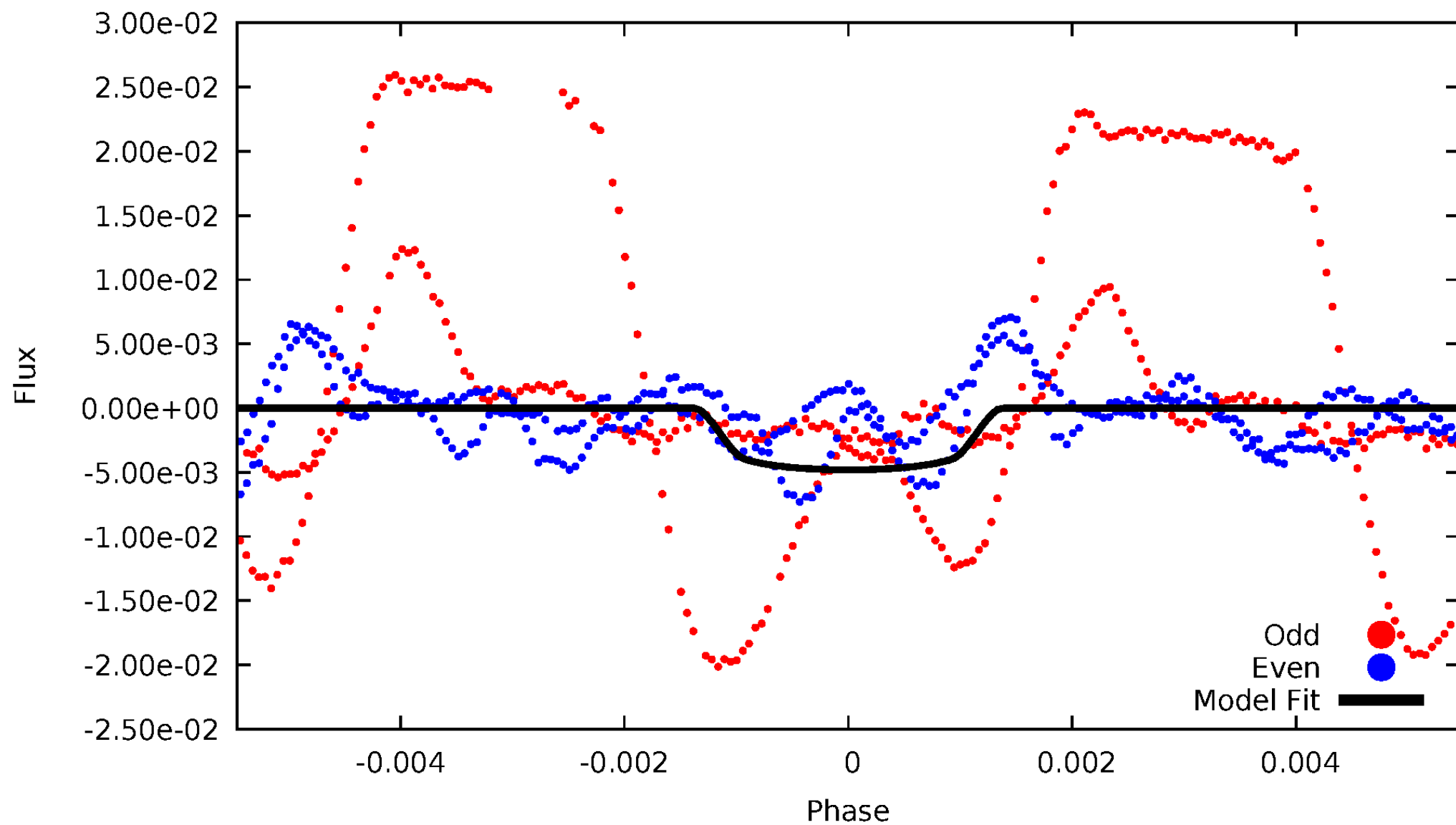


TCE 004826257-01



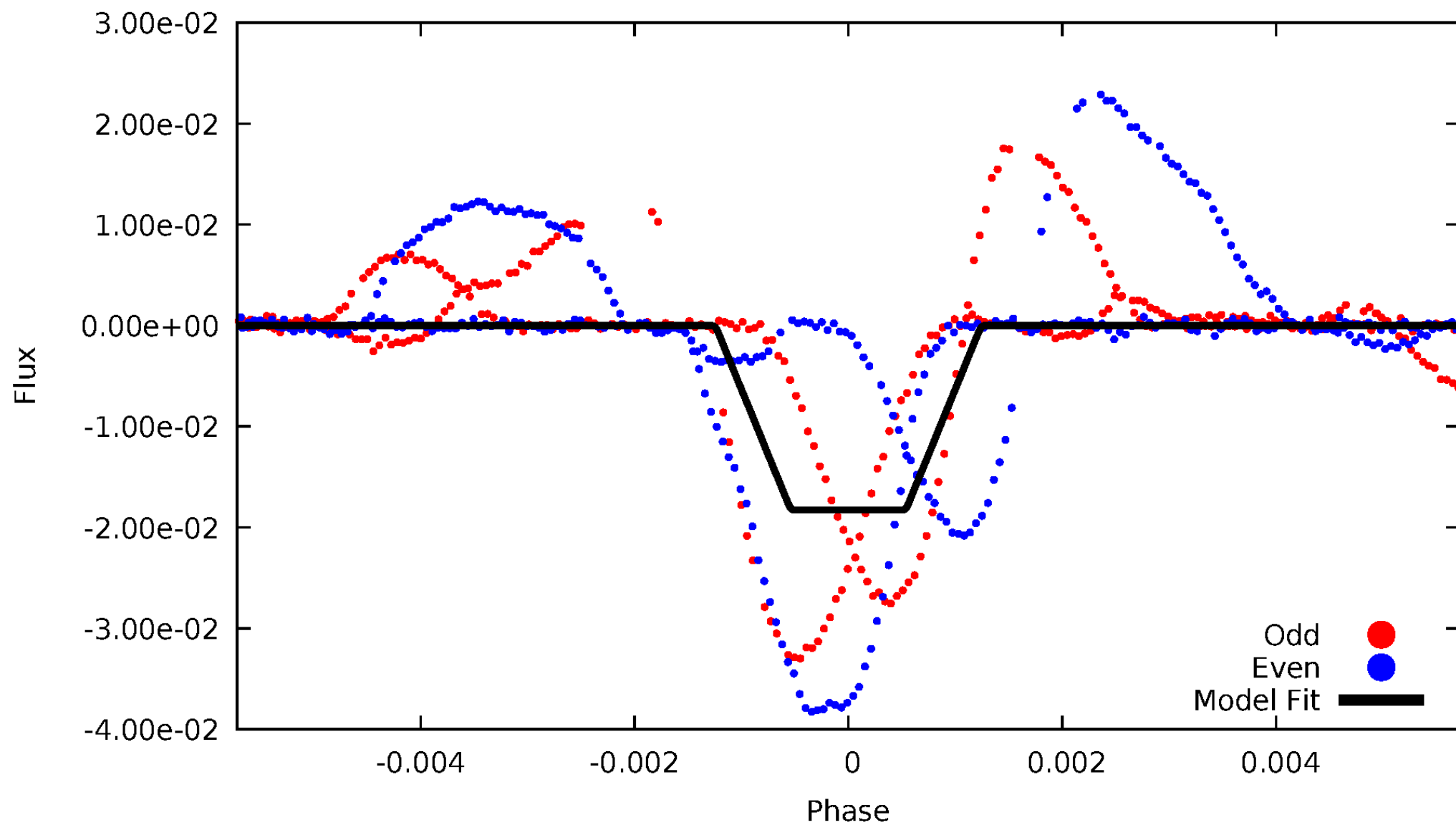
DV Odd/Even

TCE 004826257-01



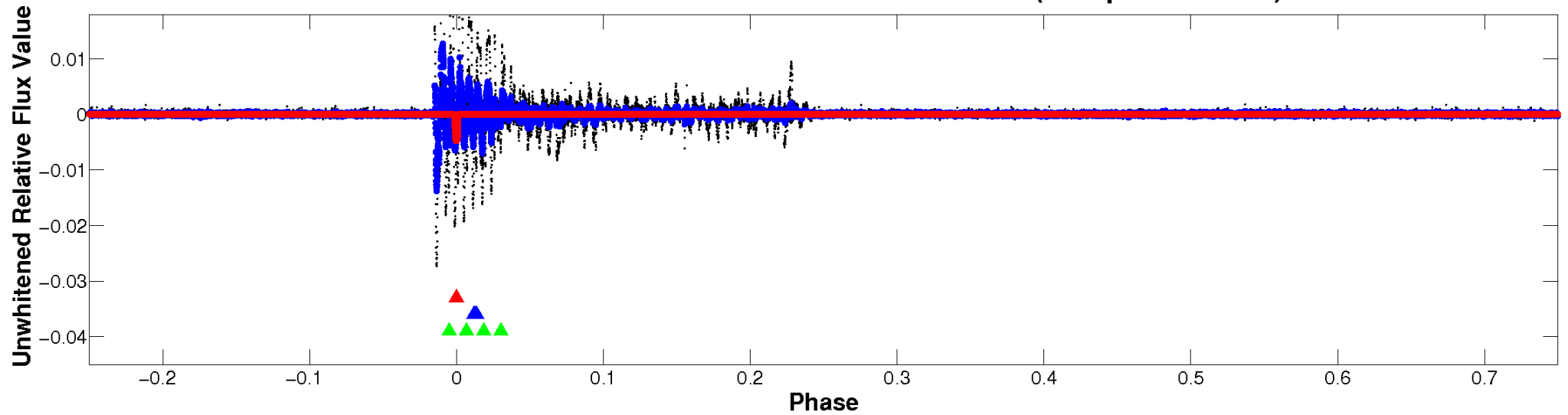
ALT Odd/Even

TCE 004826257-01

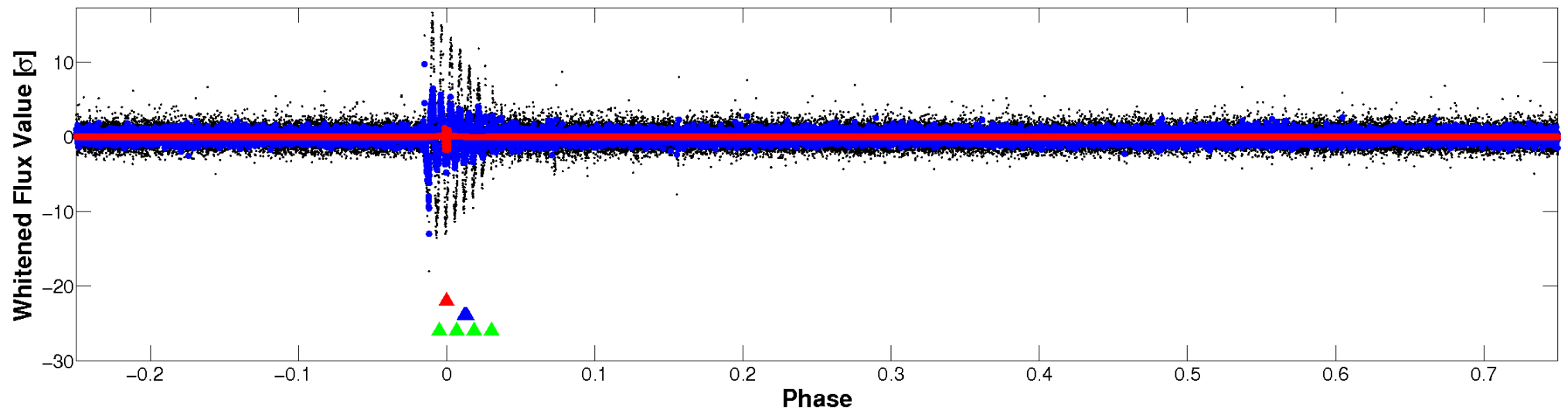


Non-Whitened Vs. Whitened Light Curve

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

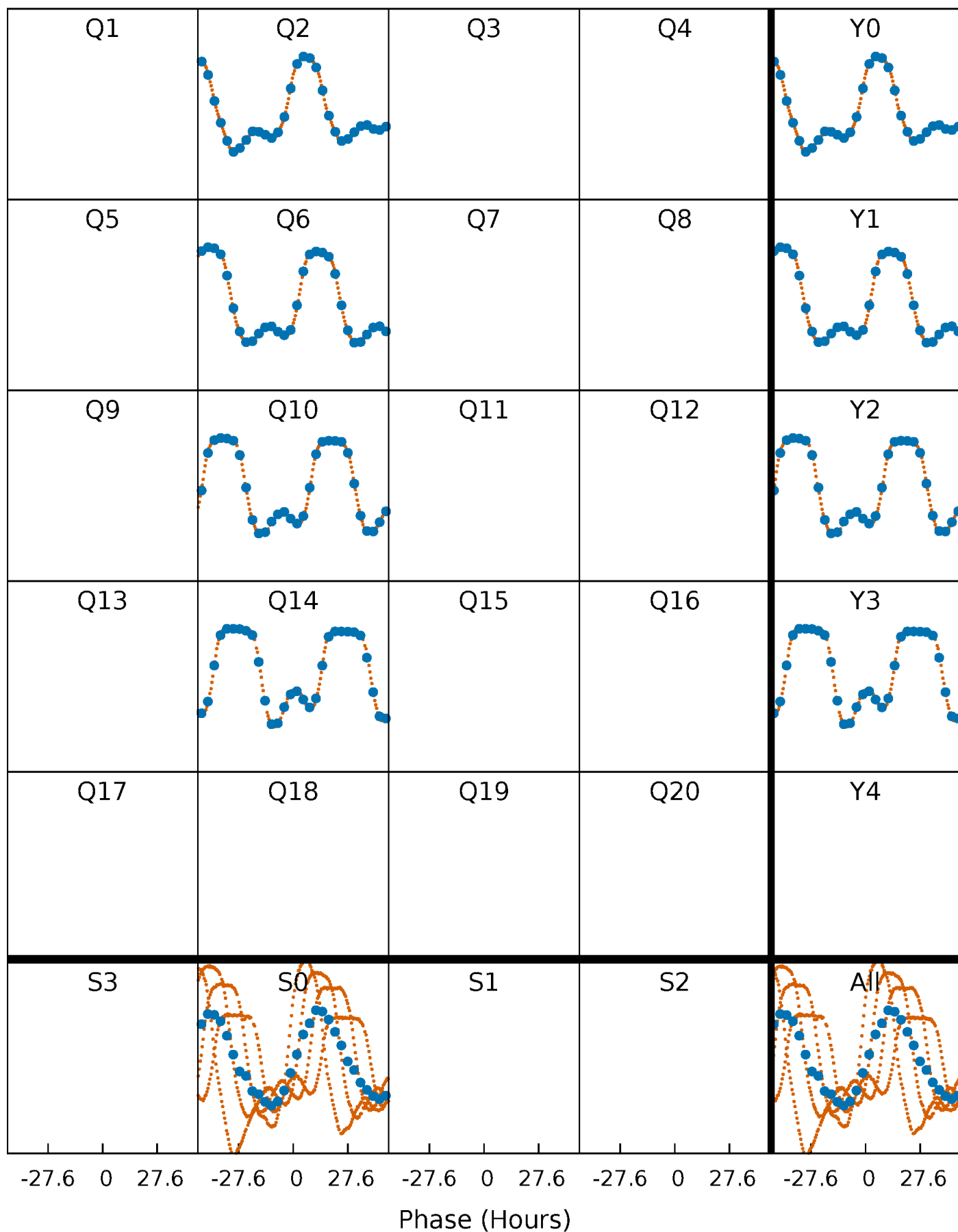


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



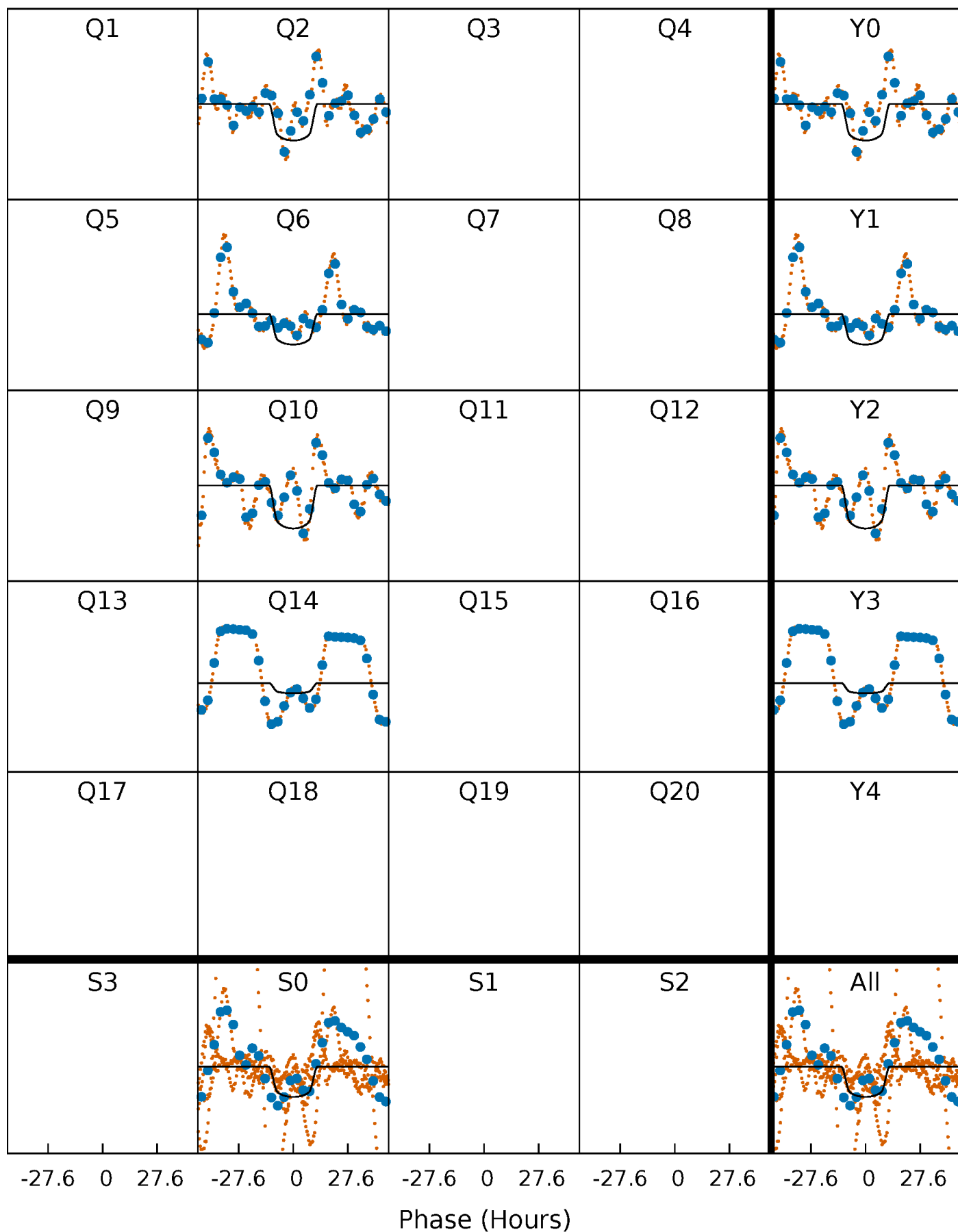
PDC Quarter-Phased Transit Curves

TCE 004826257-01 P=368.500495 Days $T_0=174.134959$ (BKJD)



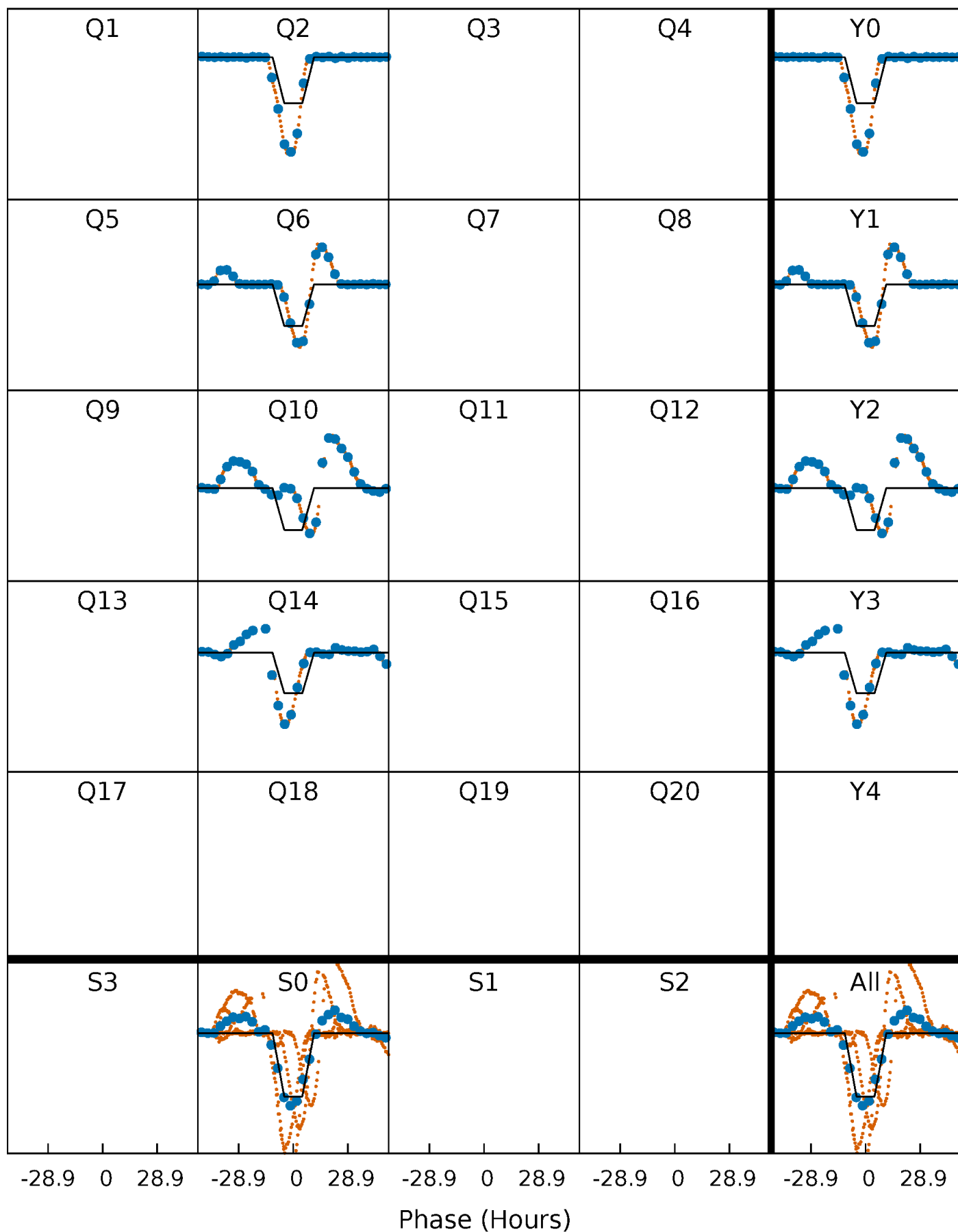
DV Quarter-Phased Transit Curves

TCE 004826257-01 P=368.500495 Days $T_0=174.134959$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

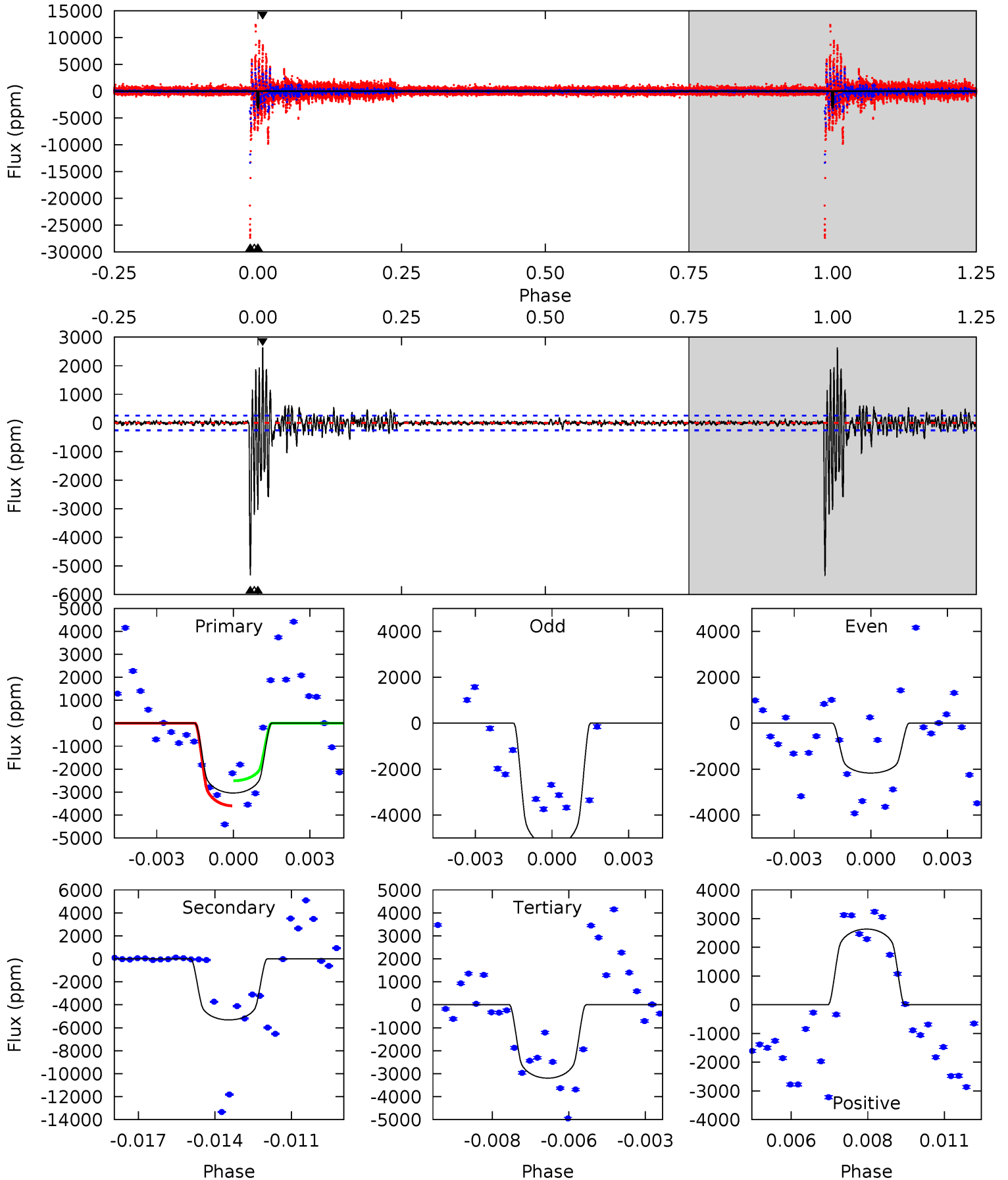
TCE 004826257-01 P=368.492010 Days $T_0=173.897322$ (BKJD)



DV Model-Shift Uniqueness Test

004826257-01, P = 368.500495 Days, E = 174.134959 Days

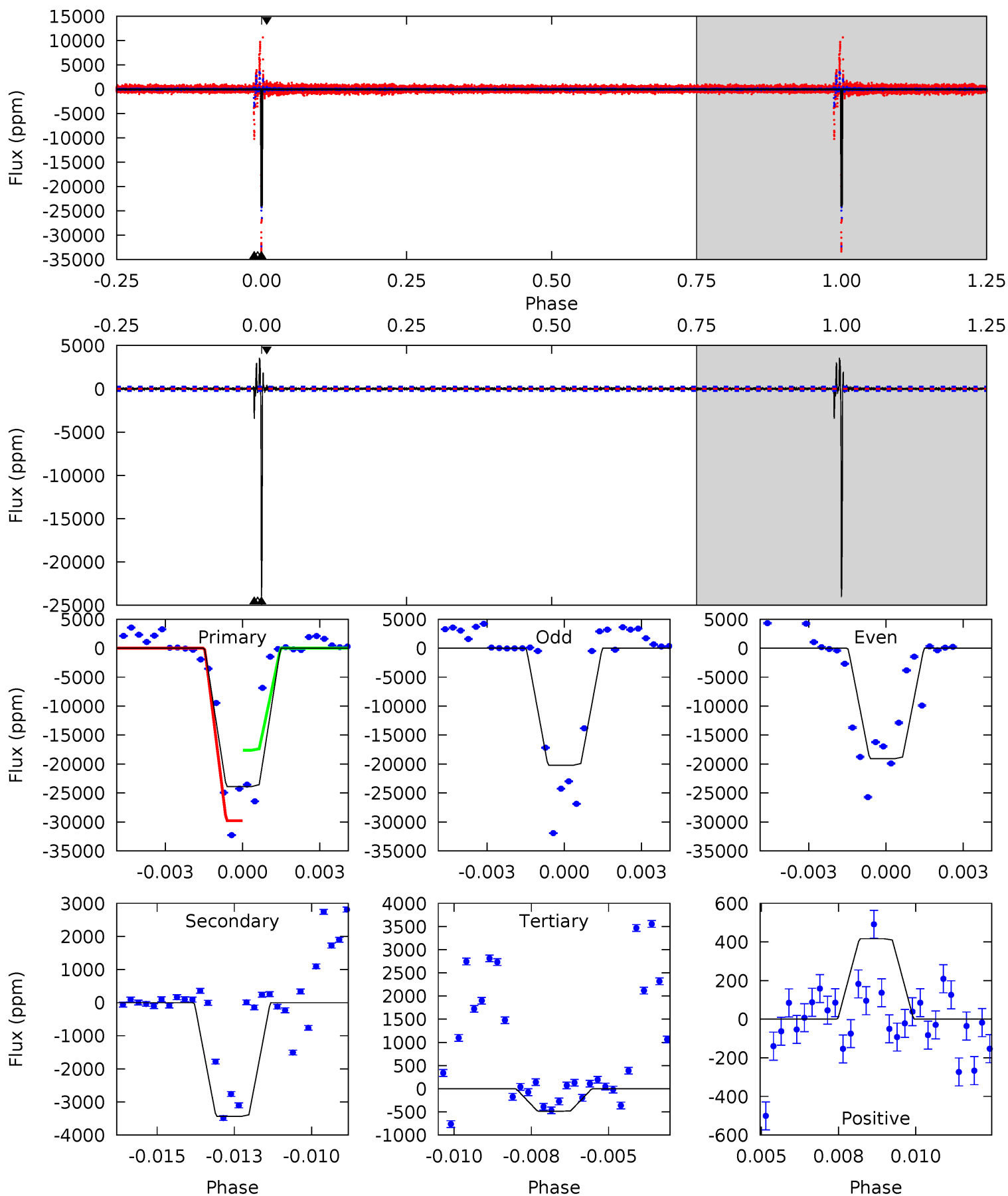
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
62.5	109.3	65.6	54.2	5.27	2.99	4.76	-3.16	8.30	43.7	55.1	14.7	1.87	0.33	0



Alt Model-Shift Uniqueness Test

004826257-01, P = 368.492010 Days, E = 173.897322 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
504.4	72.5	10.2	8.78	5.28	3.02	2.54	494.2	495.7	62.3	63.7	10.4	0.96	0.13	113.4



Stellar Parameters For KIC 004826257

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6195^{+169}_{-206}	$4.394^{+0.105}_{-0.195}$	$-0.400^{+0.300}_{-0.300}$	$1.029^{+0.303}_{-0.140}$	$0.956^{+0.136}_{-0.111}$	$1.238^{+0.654}_{-0.610}$
	+3%/-3%	+2%/-4%	+75%/-75%	+29%/-14%	+14%/-12%	+53%/-49%
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 004826257-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-5320 ± 49	$7.97^{+1.39}_{-0.96}$	392^{+28}_{-22}	6337^{+329}_{-299}	45112^{+12756}_{-11270}
Alt.	-3438 ± 47	$15.44^{+2.50}_{-1.51}$	393^{+28}_{-21}	4316^{+108}_{-124}	7714^{+1715}_{-1804}

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

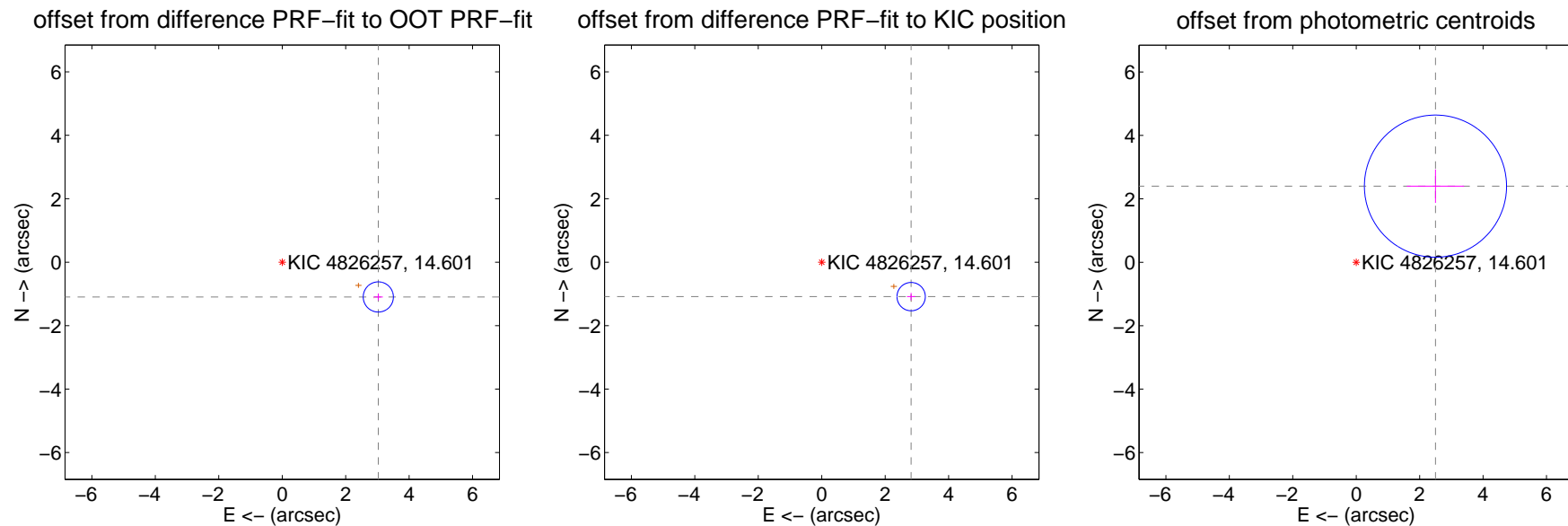
DV Centroid Data

Supplemental centroid analysis for 004826257-01. Kepler magnitude: 14.60. Transit SNR 17.43

There are 0 quarters with good PRF difference image offsets

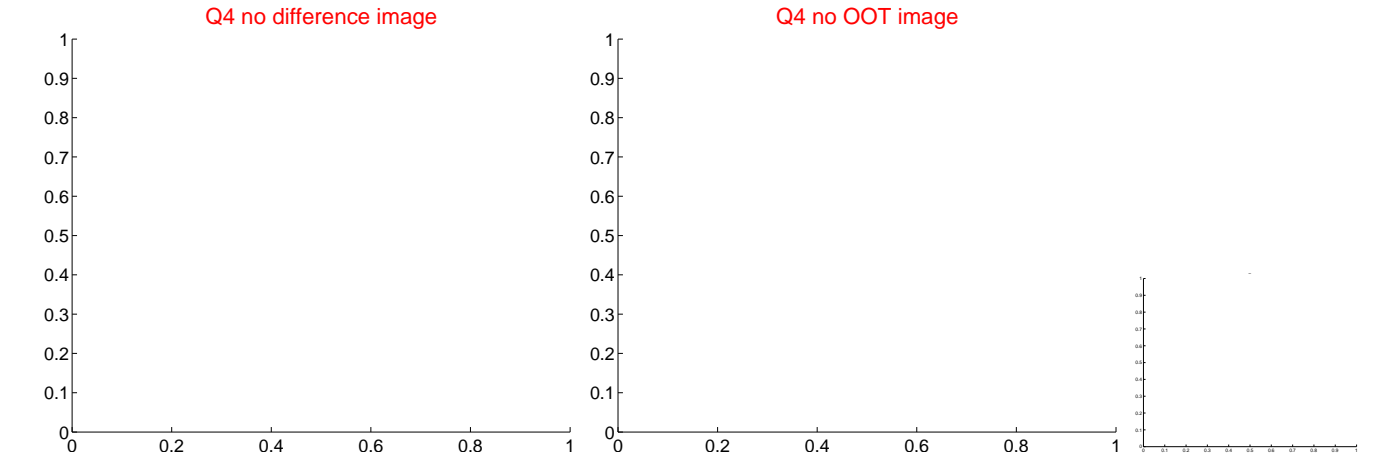
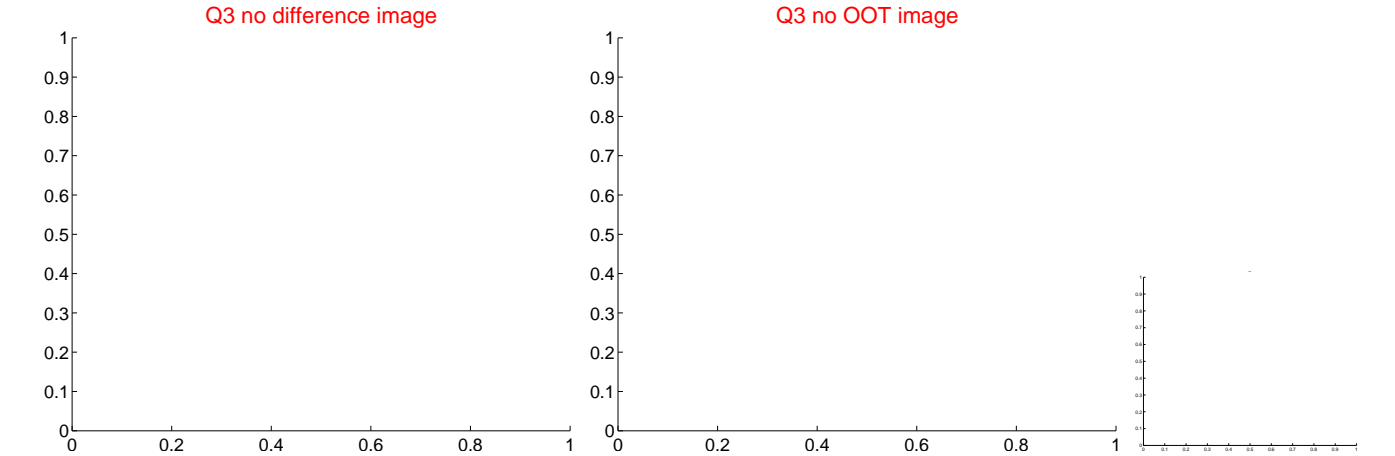
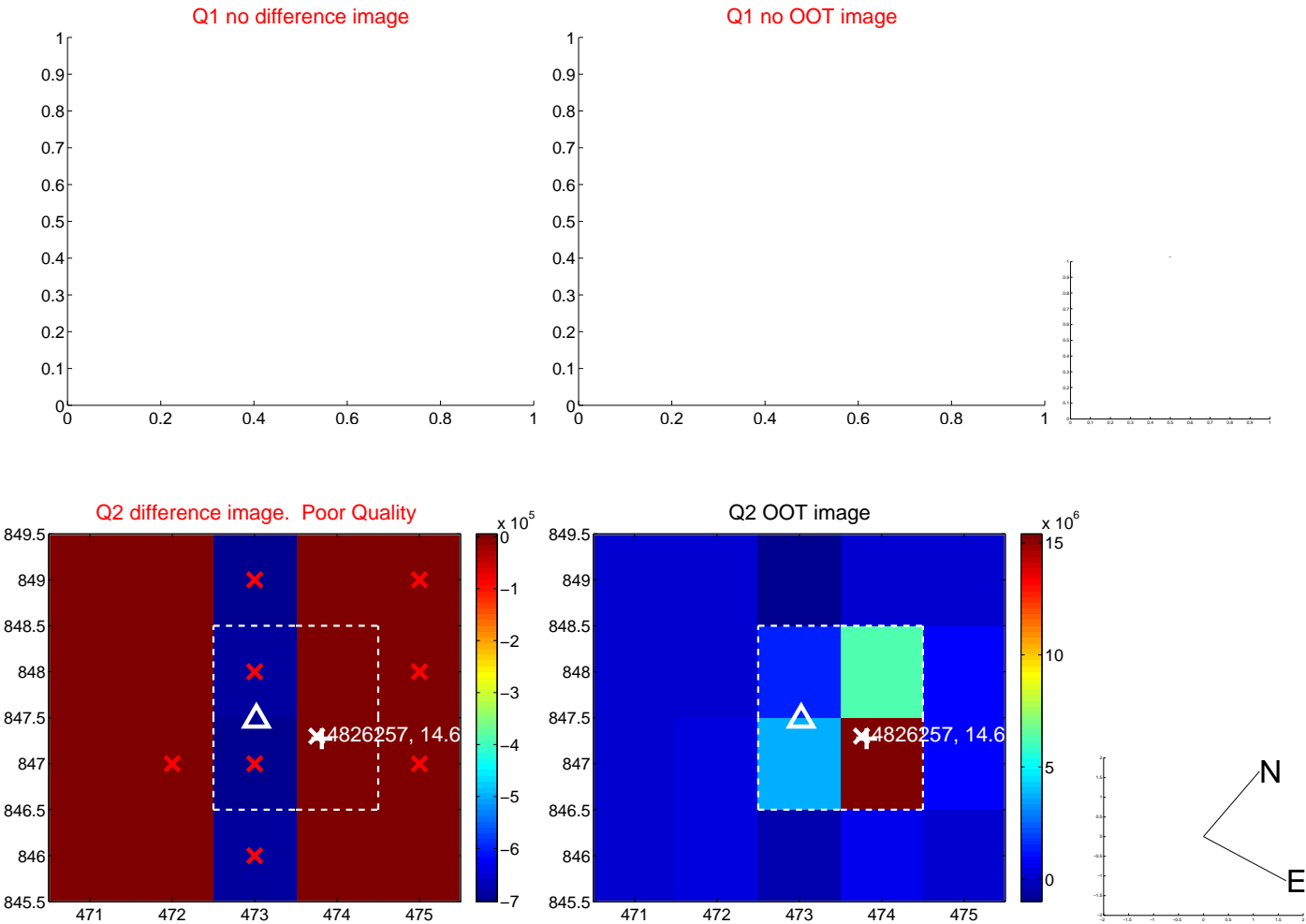
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.221 ± 0.159	20.31	-3.029 ± 0.142	-1.096 ± 0.109
PRF-fit source offset from KIC position	3.021 ± 0.149	20.30	-2.819 ± 0.129	-1.085 ± 0.117
photometric centroid source offset	3.47 ± 0.75	4.64	-2.50 ± 0.90	2.40 ± 0.53



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.

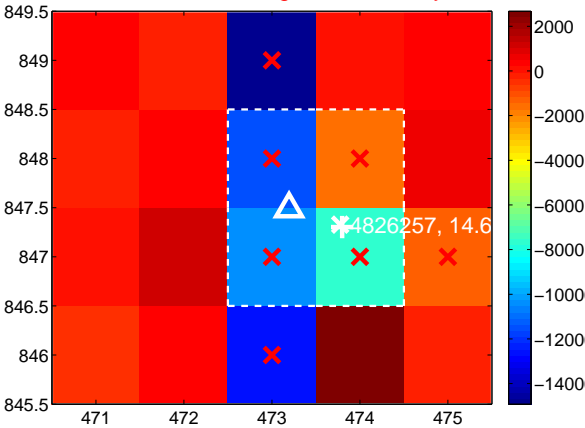
Q5 no difference image



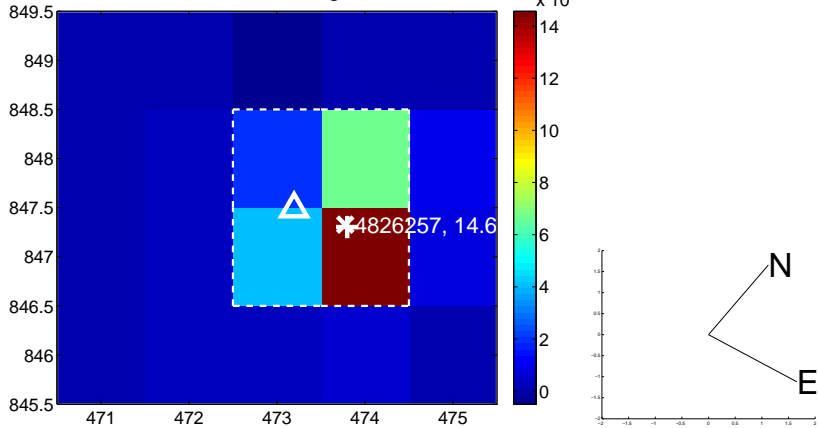
Q5 no OOT image



Q6 difference image. Poor Quality



Q6 OOT image



Q7 no difference image



Q7 no OOT image



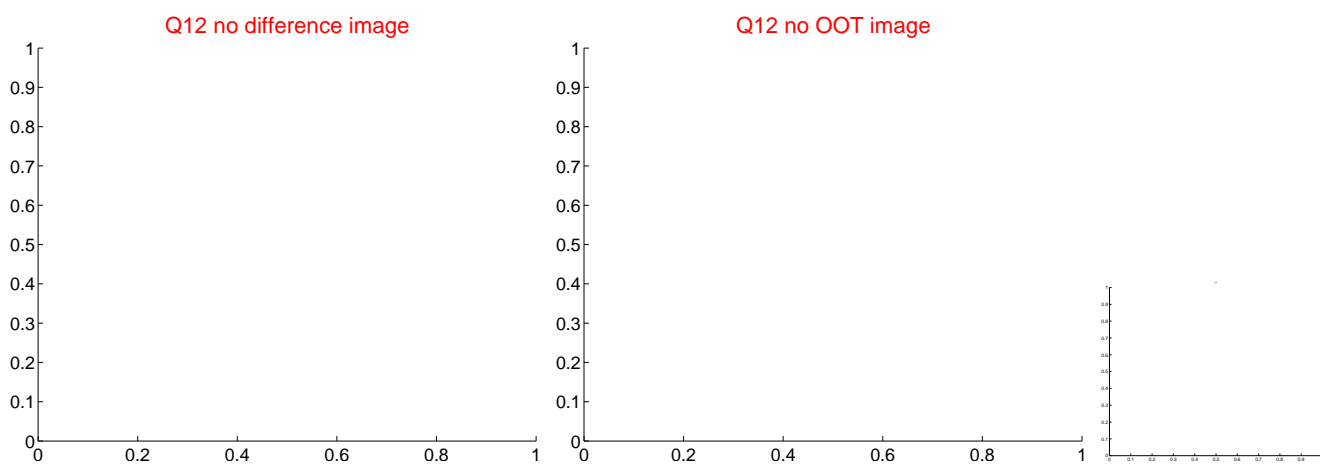
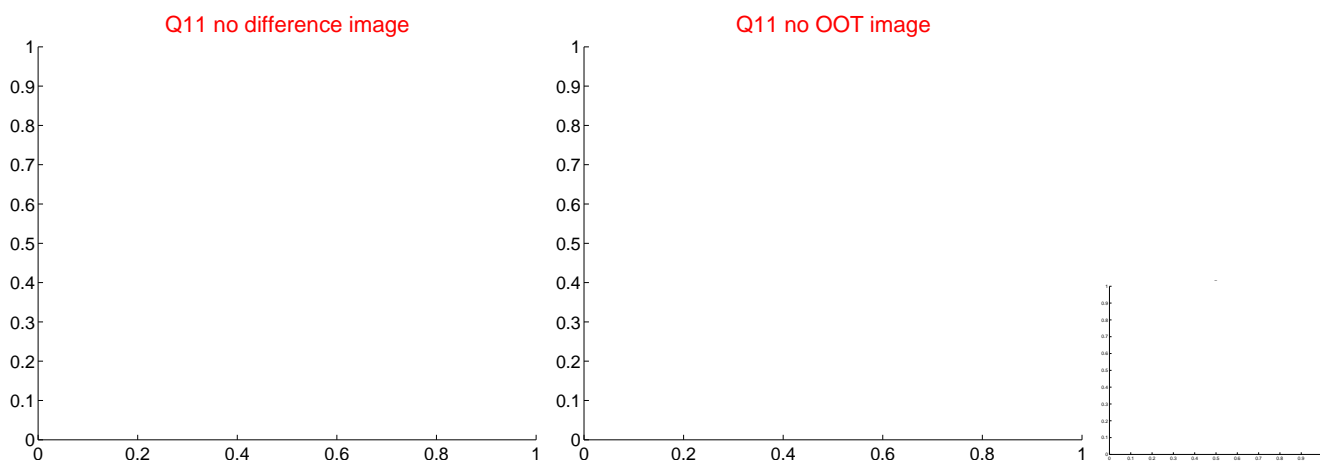
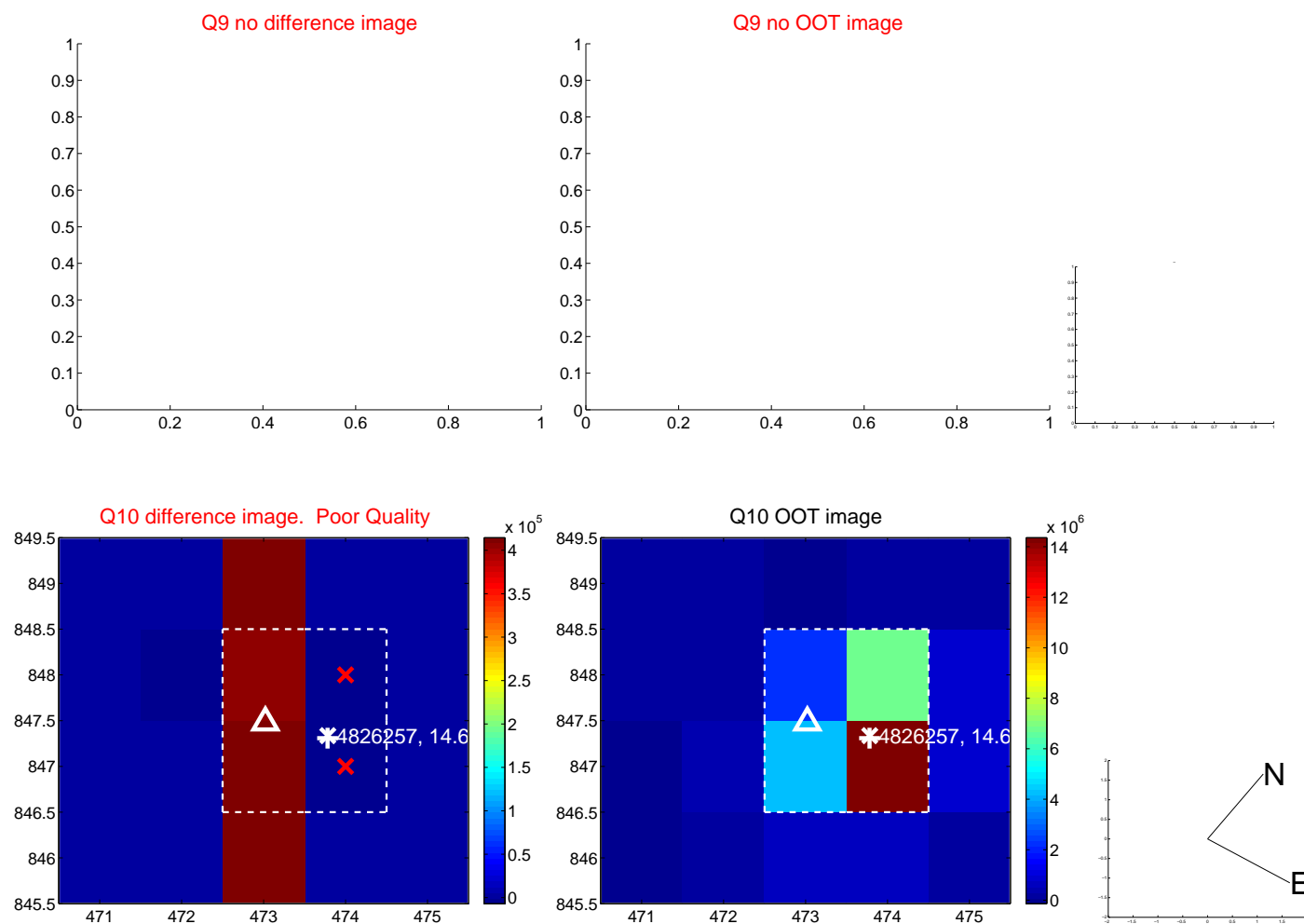
Q8 no difference image



Q8 no OOT image



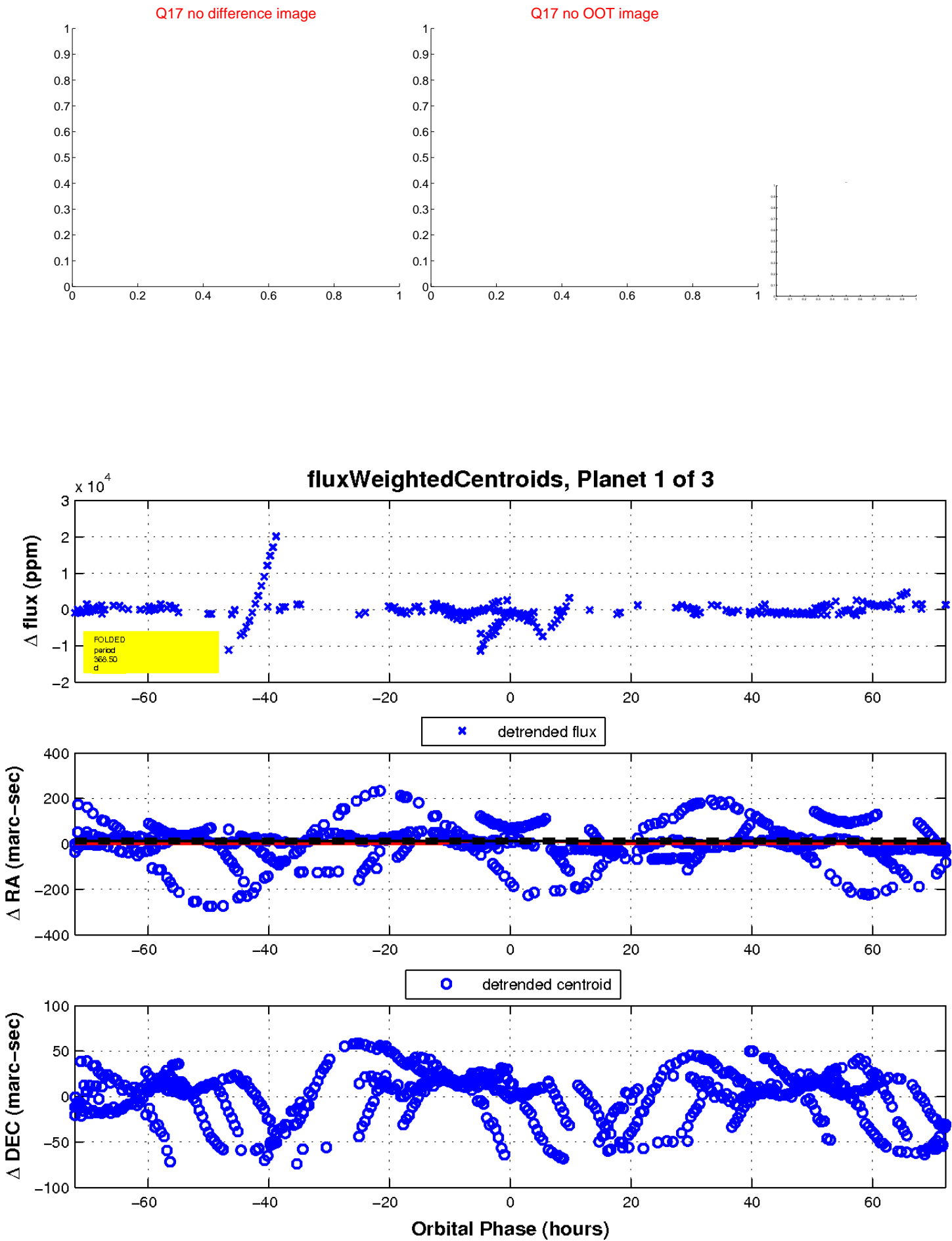
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

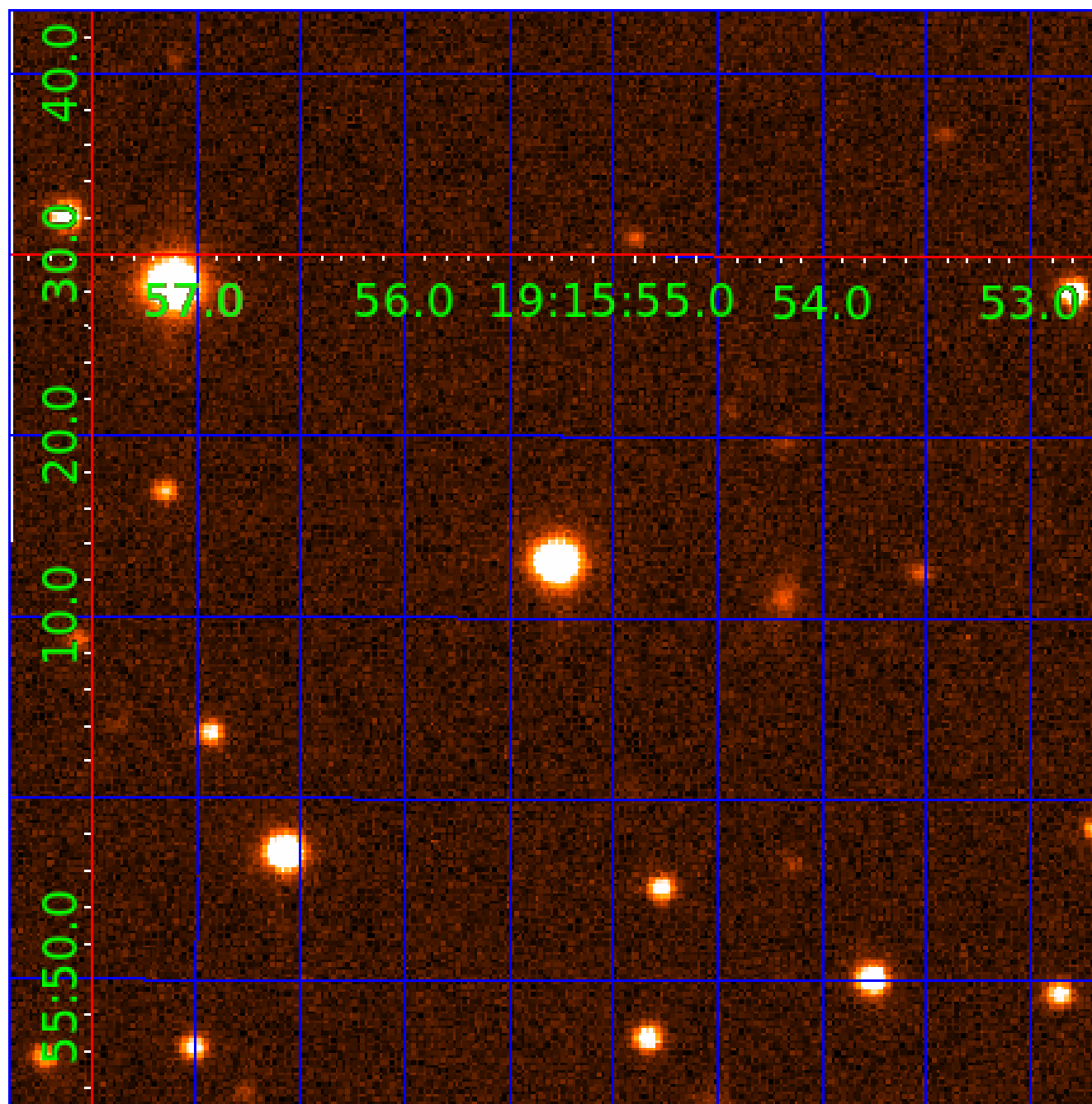


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004826257

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})
004826257-01	OBS	No	368.500495	174.134959	4805.4	24.139	51.7	17.4	1.03	6195	7.80	1.42
004826257-02	OBS	No	368.721938	178.525788	1324.6	3.000	11.2	-1.0	1.03	6195	3.76	1.42
004826257-03	OBS	No	364.169161	185.316196	5529.1	9.959	10.3	14.9	1.03	6195	9.21	1.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004826257-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
004826257-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
004826257-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—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.

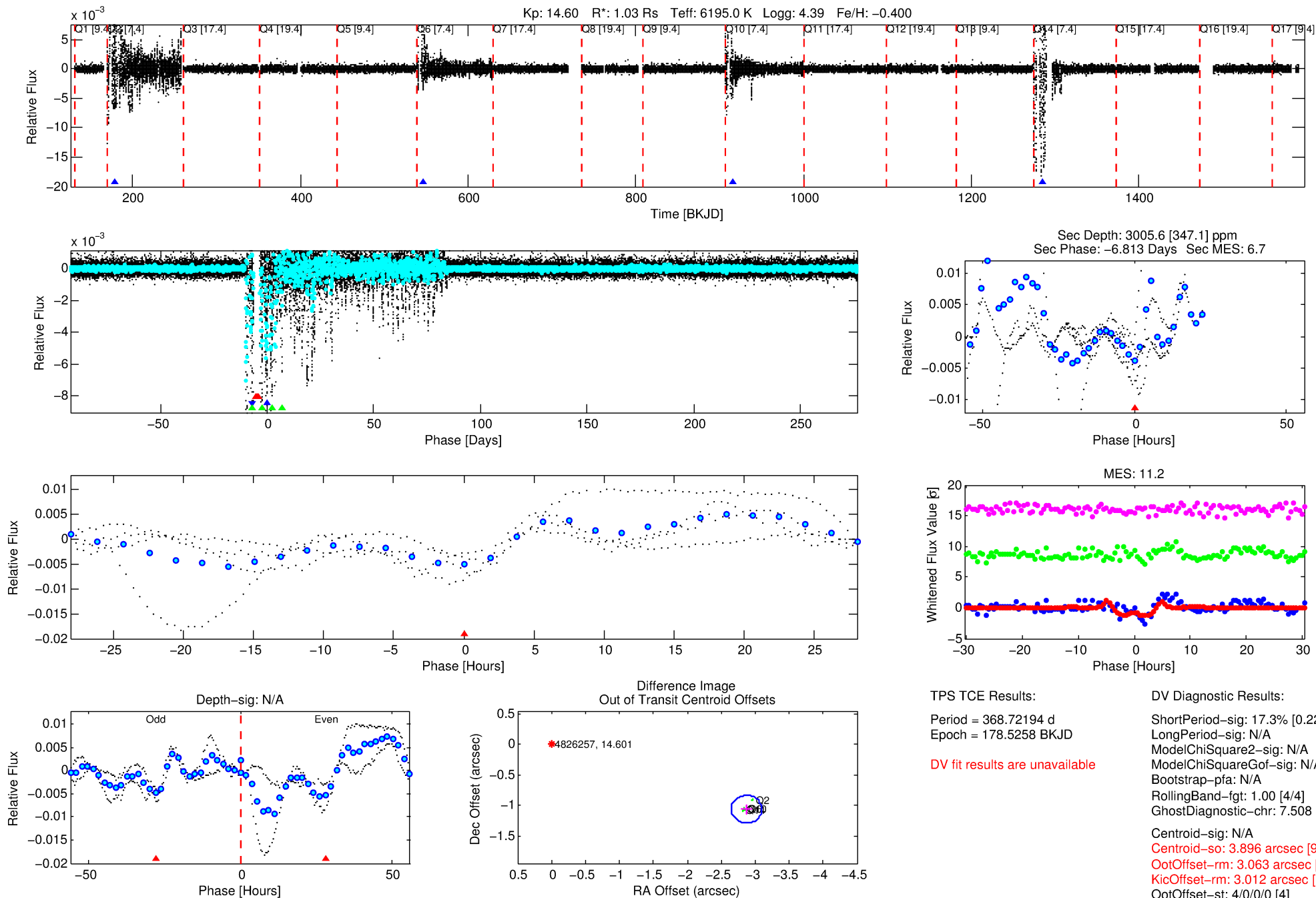
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004826257-02

No Significant Match Found

DV One-Page Summary

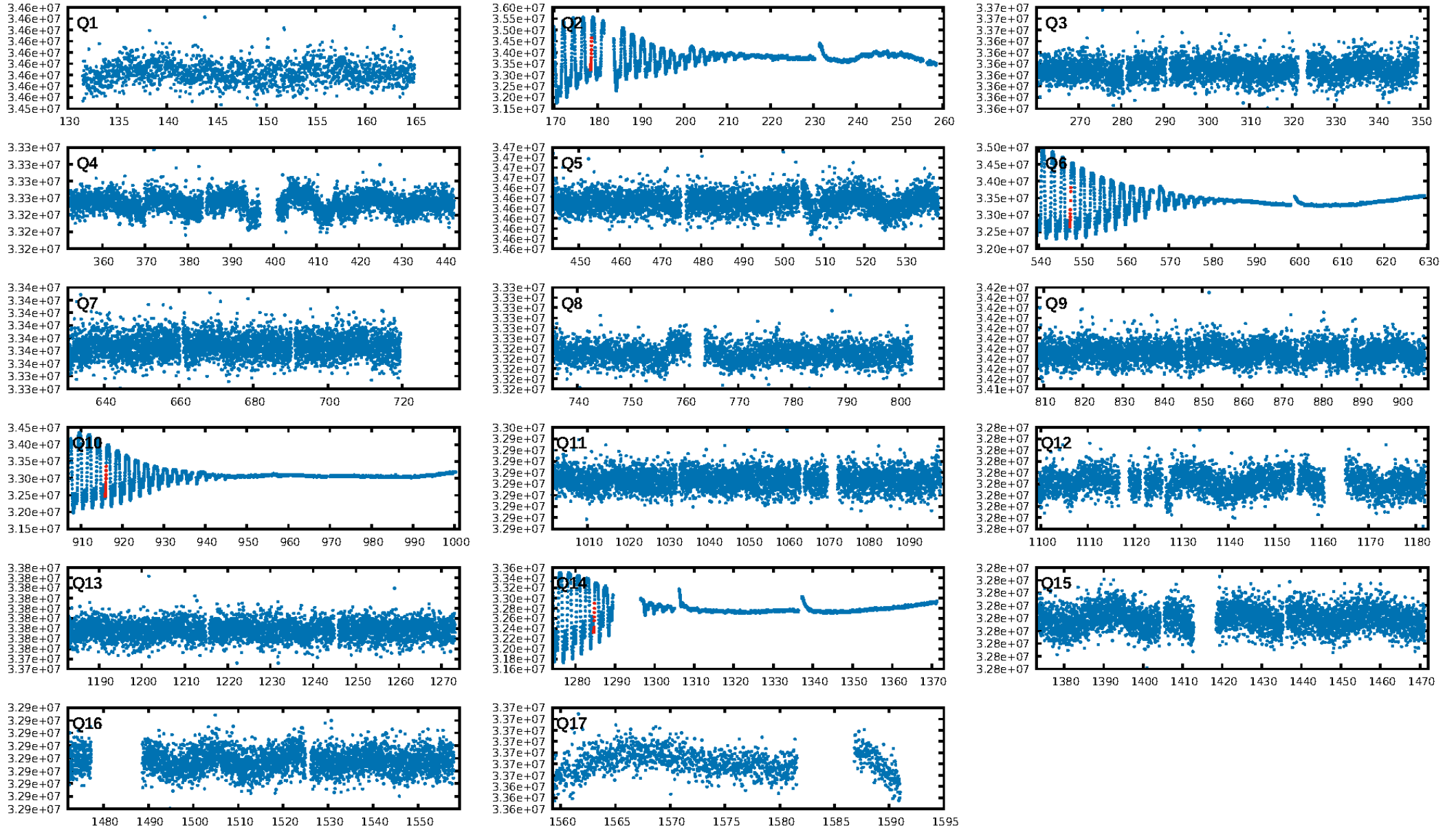
KIC: 4826257 Candidate: 2 of 3 Period: 368.722 d



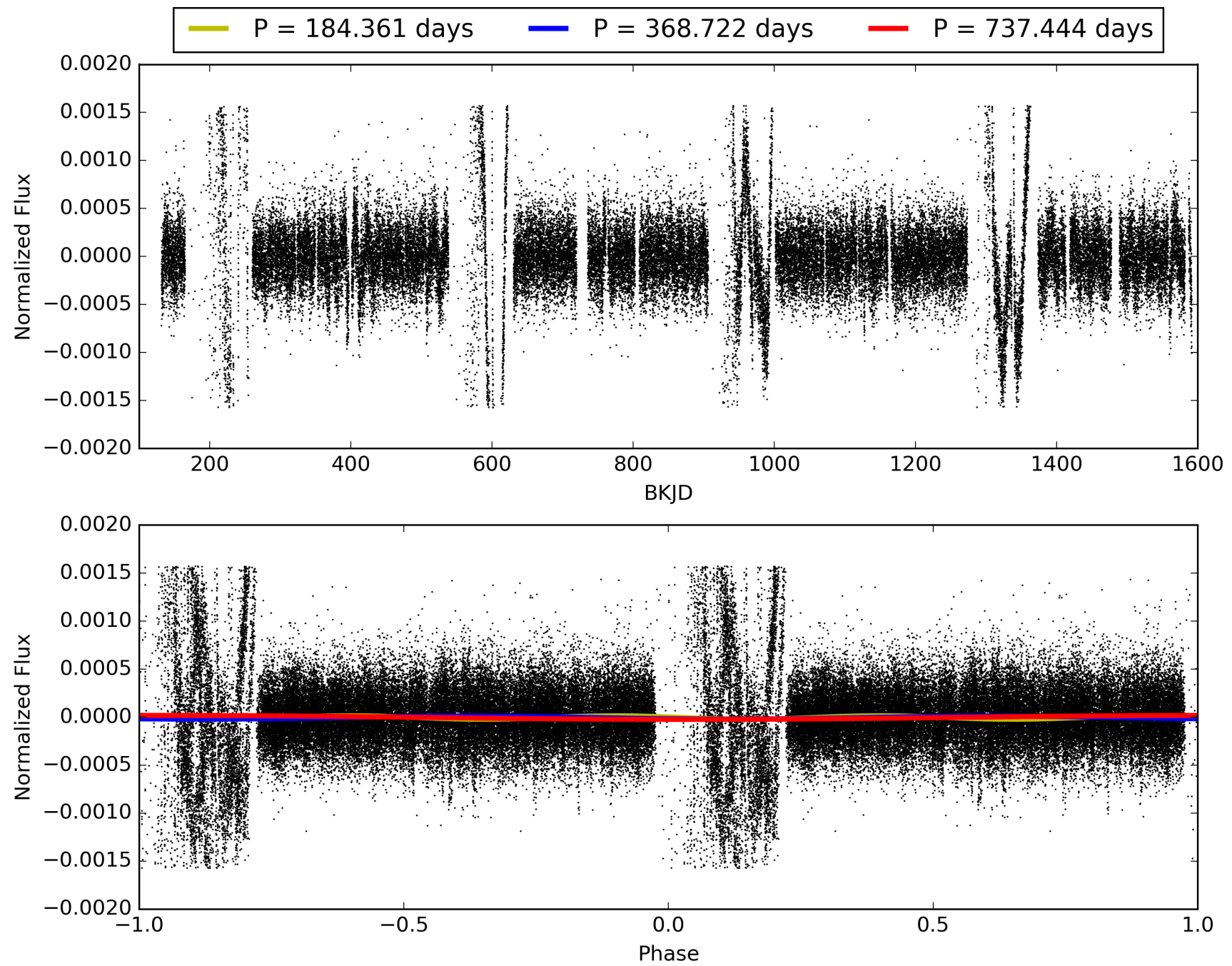
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:27:56 Z

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

TCE 004826257-02, PDC Light Curves

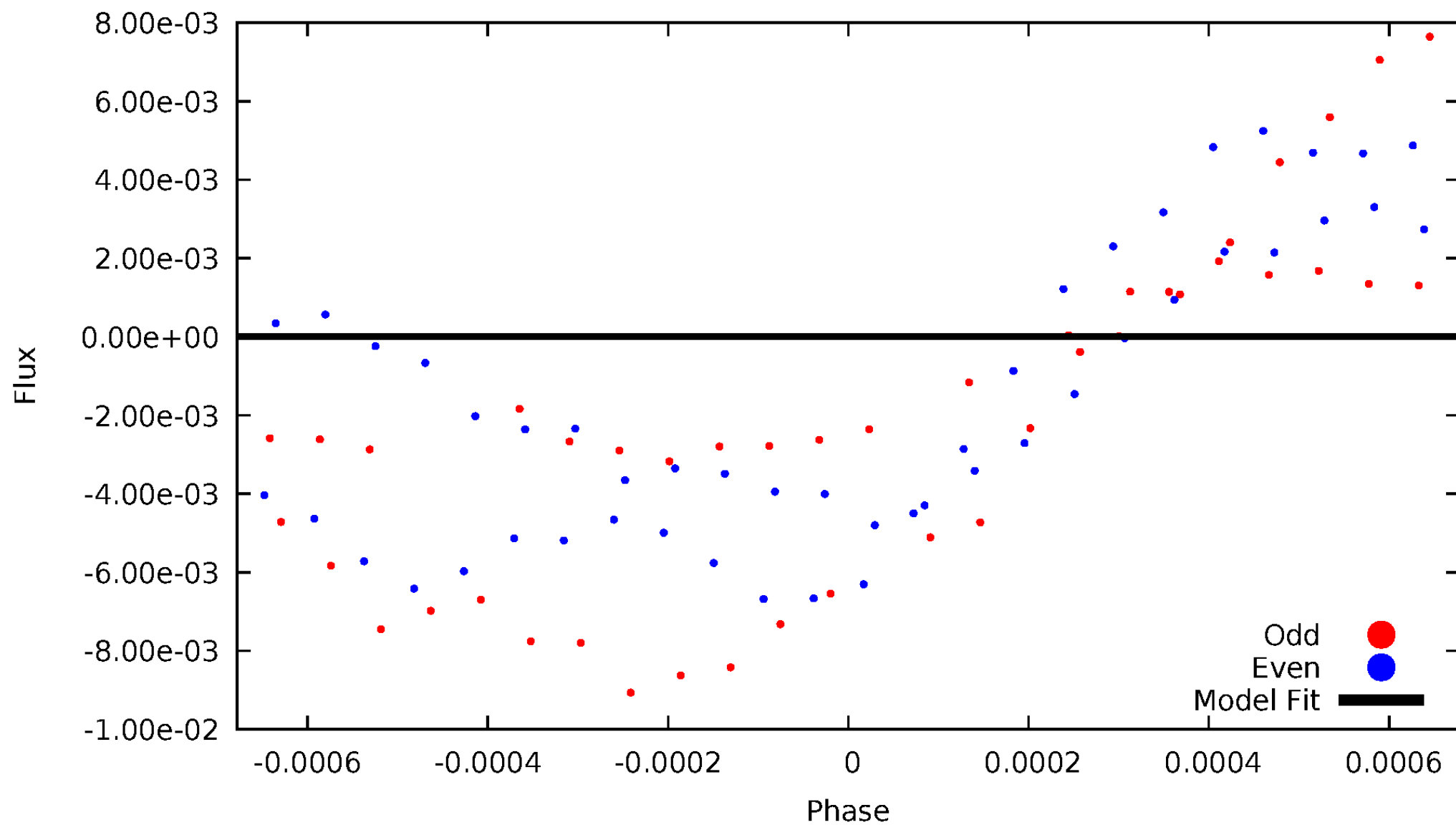


TCE 004826257-02



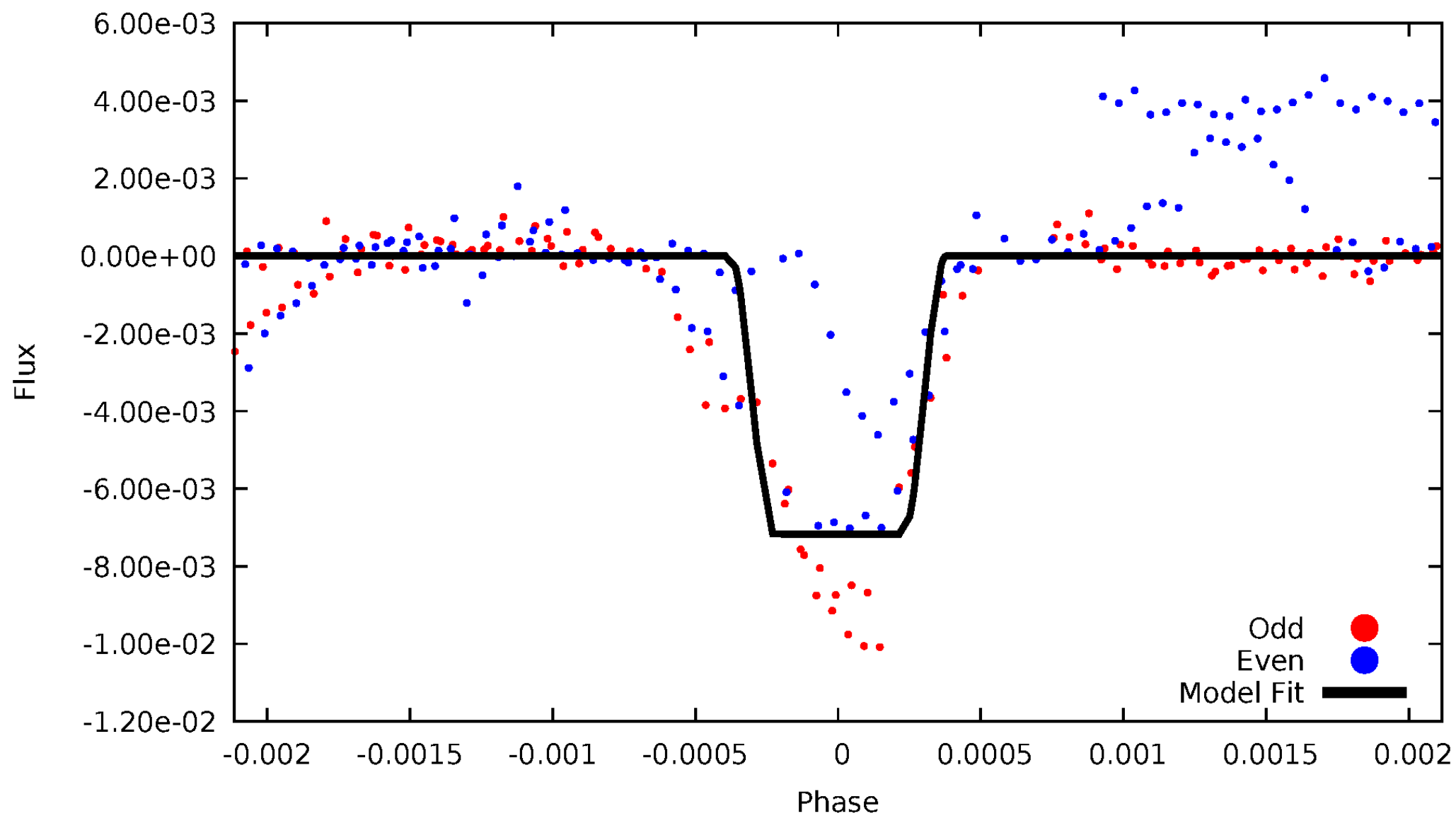
DV Odd/Even

TCE 004826257-02



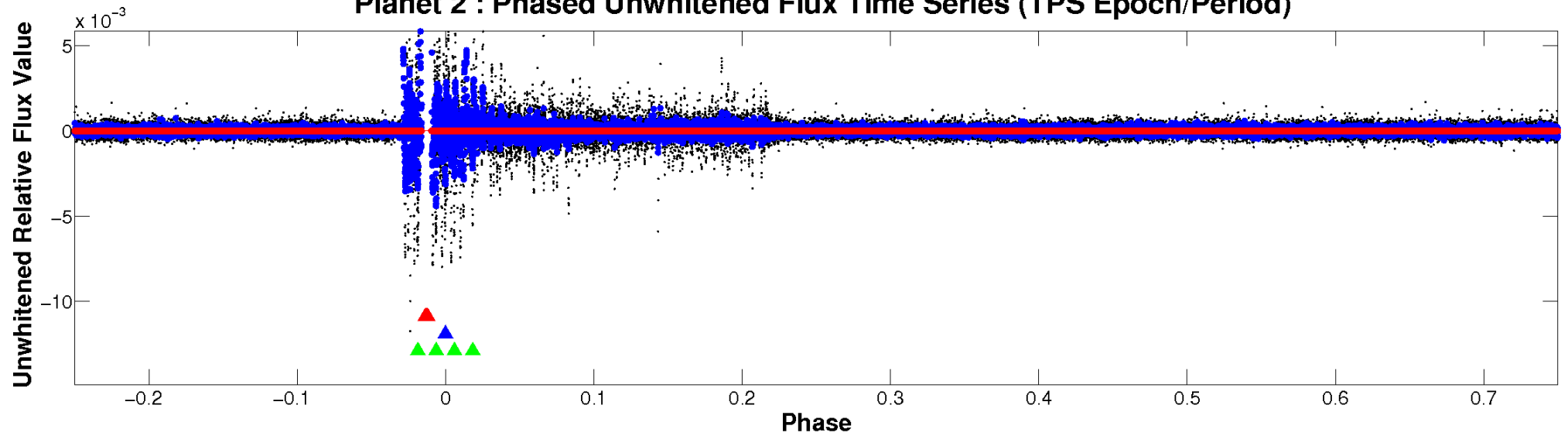
ALT Odd/Even

TCE 004826257-02



Non-Whitened Vs. Whitened Light Curve

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

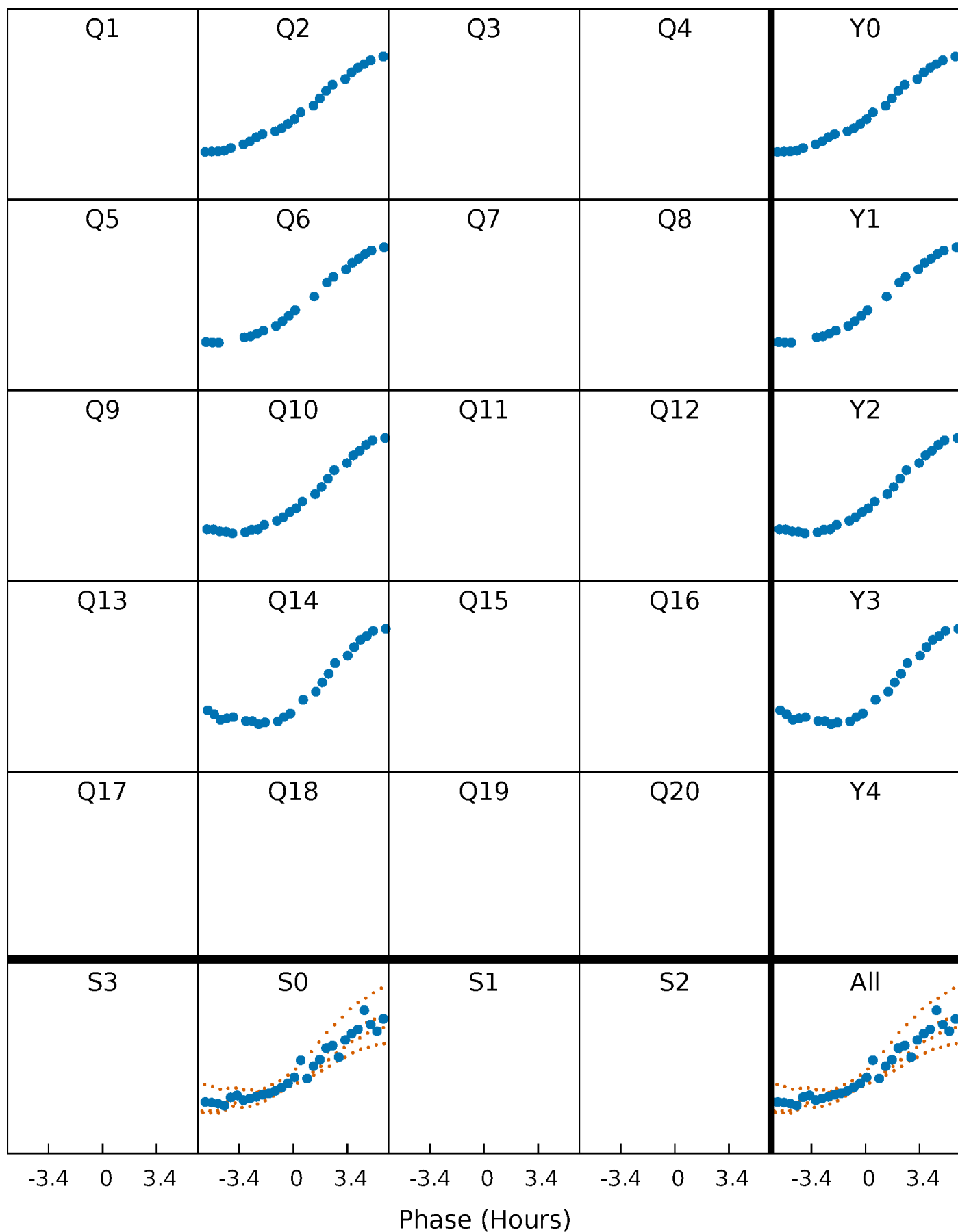


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



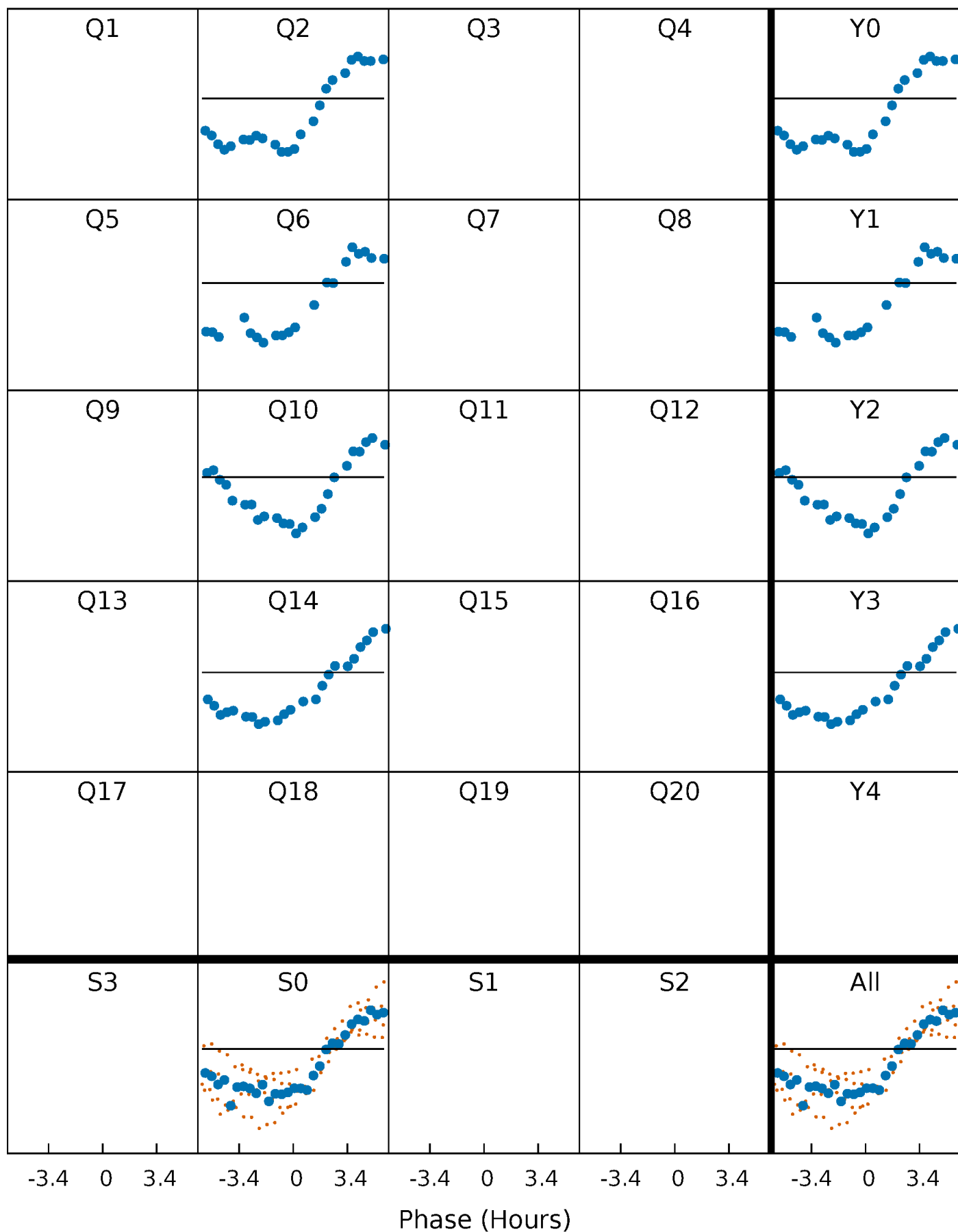
PDC Quarter-Phased Transit Curves

TCE 004826257-02 P=368.721938 Days $T_0=178.525788$ (BKJD)



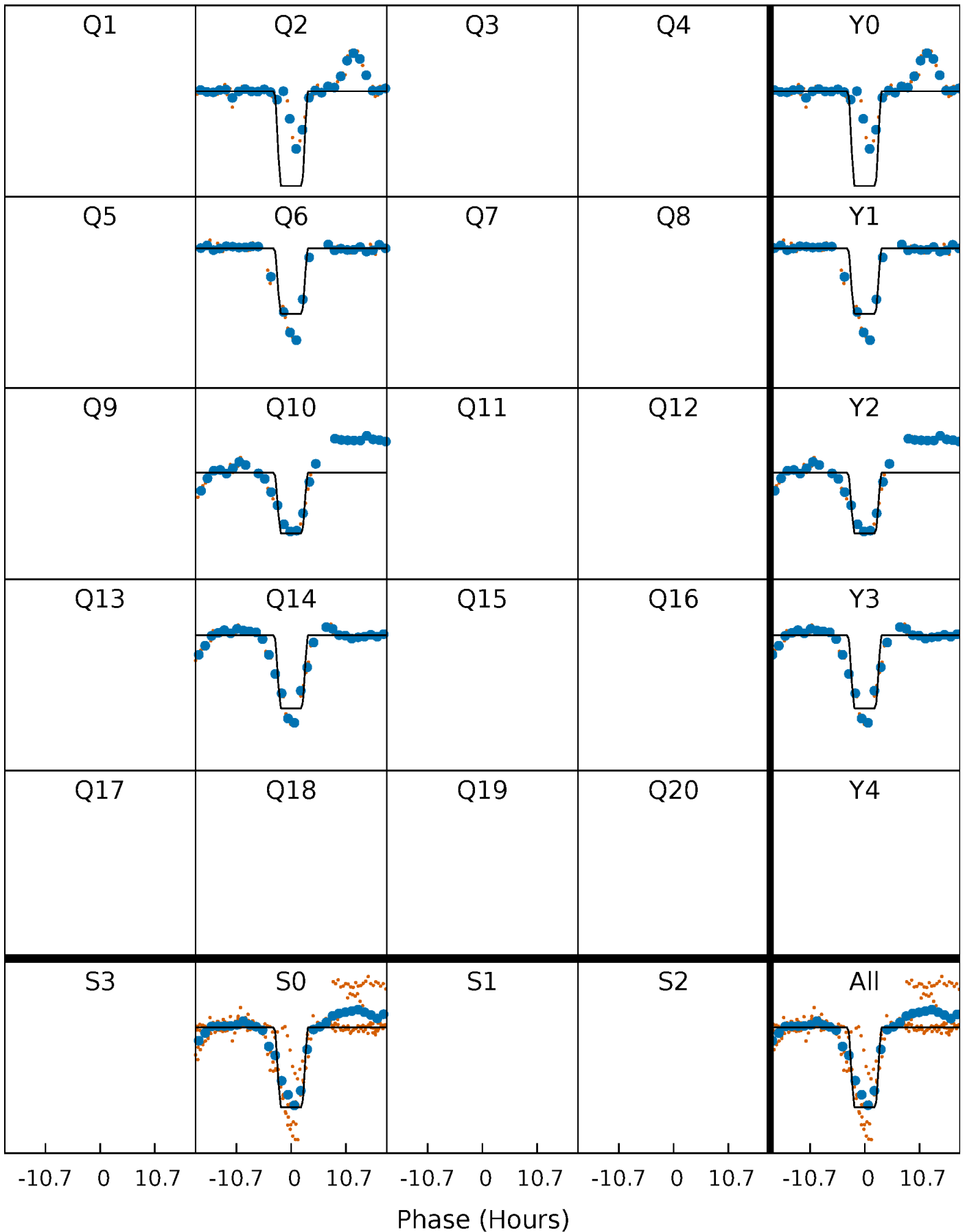
DV Quarter-Phased Transit Curves

TCE 004826257-02 P=368.721938 Days $T_0=178.525788$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

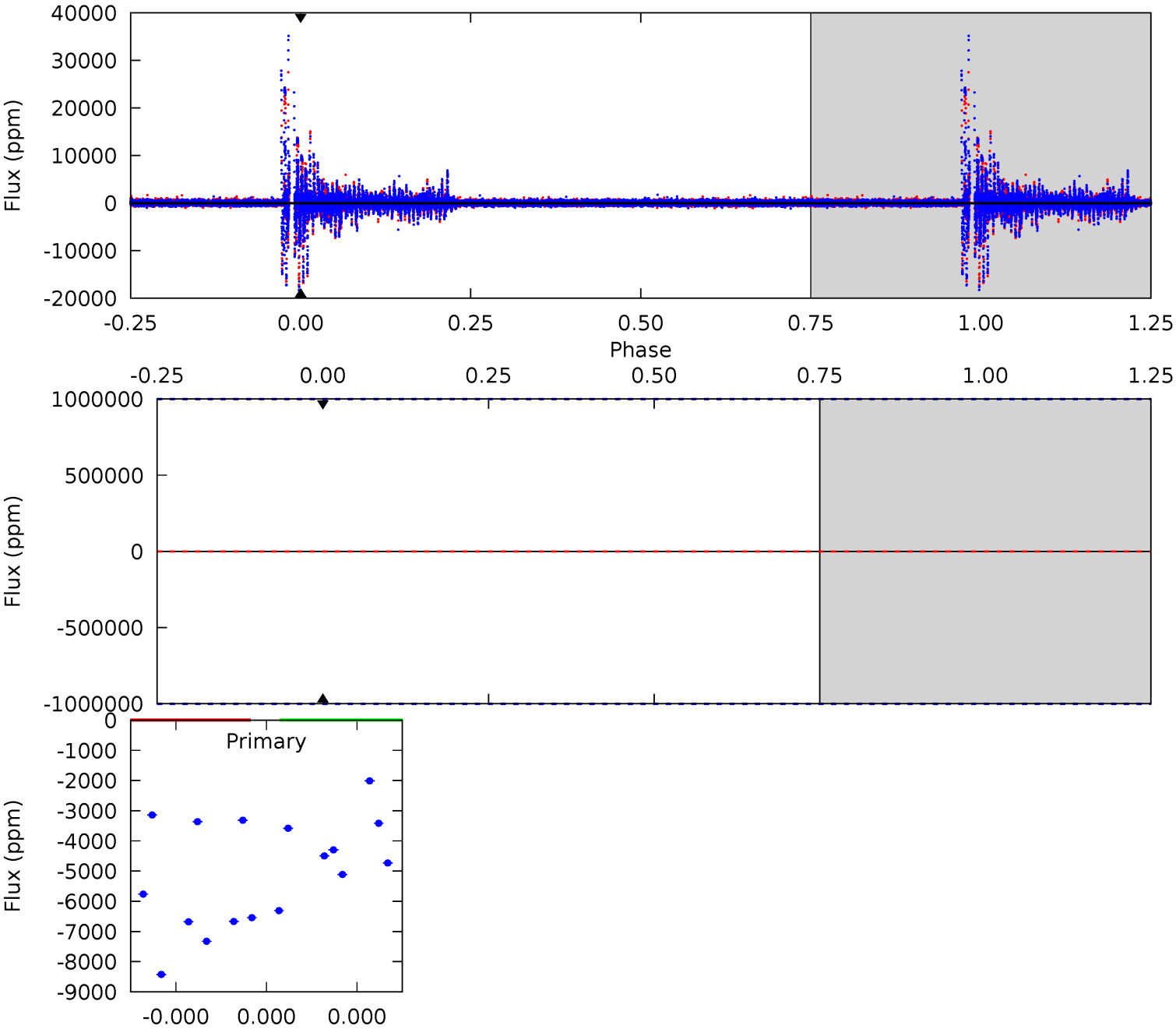
TCE 004826257-02 P=368.721938 Days $T_0=178.480440$ (BKJD)



DV Model-Shift Uniqueness Test

004826257-02, P = 368.721938 Days, E = 178.525788 Days

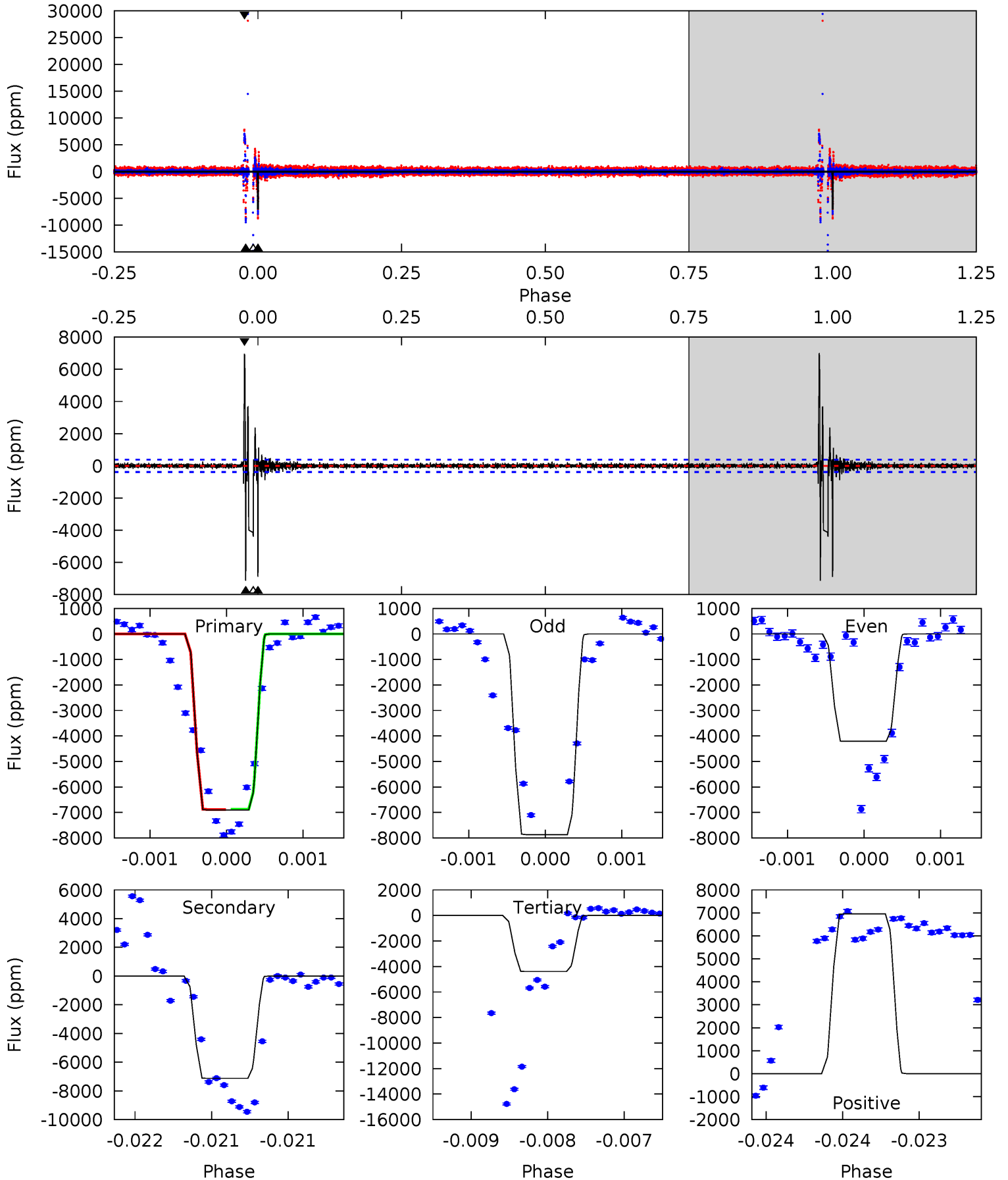
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

004826257-02, P = 368.721938 Days, E = 178.480440 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
97.9	101.1	62.3	98.7	5.50	3.37	2.77	35.6	-0.81	38.8	2.40	17.6	0.89	0.49	0.04



Stellar Parameters For KIC 004826257

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6195^{+169}_{-206}	$4.394^{+0.105}_{-0.195}$	$-0.400^{+0.300}_{-0.300}$	$1.029^{+0.303}_{-0.140}$	$0.956^{+0.136}_{-0.111}$	$1.238^{+0.654}_{-0.610}$
	+3%/-3%	+2%/-4%	+75%/-75%	+29%/-14%	+14%/-12%	+53%/-49%
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 004826257-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$8.81^{+9.60}_{-6.23}$	391^{+30}_{-22}	4038^{+20962}_{-26356}	$5255^{+1279649}_{-1124471}$
Alt.	-7127 ± 70	$12.69^{+10.32}_{-8.00}$	394^{+29}_{-24}	5446^{+4120}_{-1166}	$23630^{+154824}_{-16528}$

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

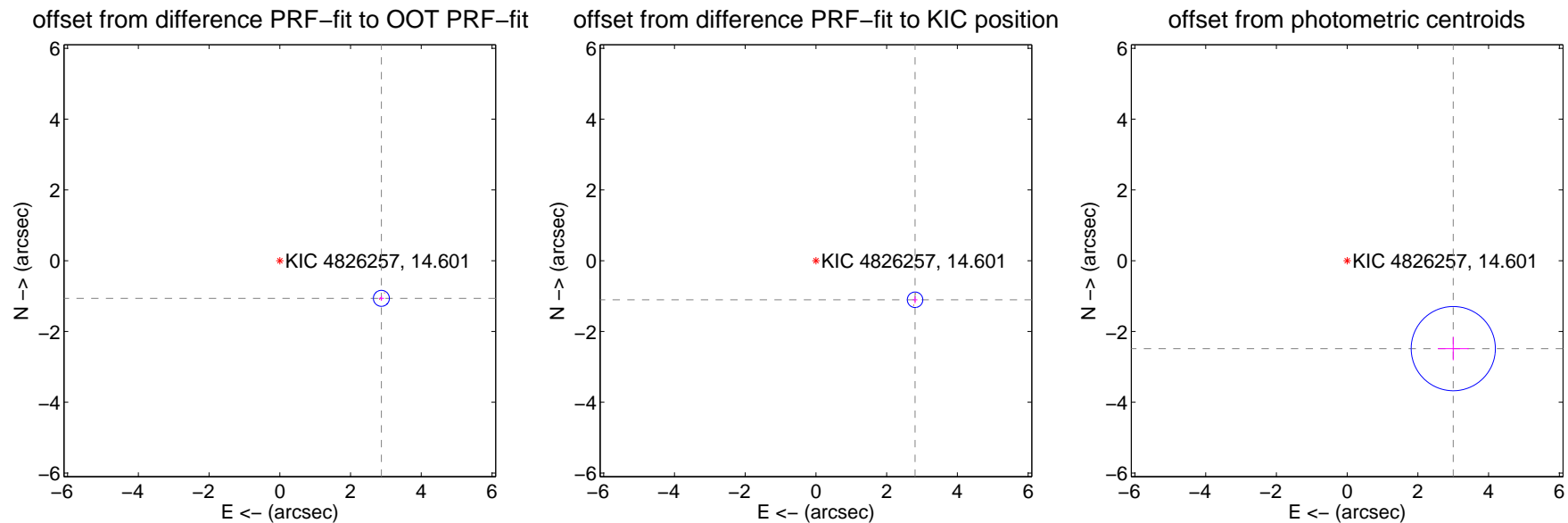
DV Centroid Data

Supplemental centroid analysis for 004826257-02. Kepler magnitude: 14.60. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

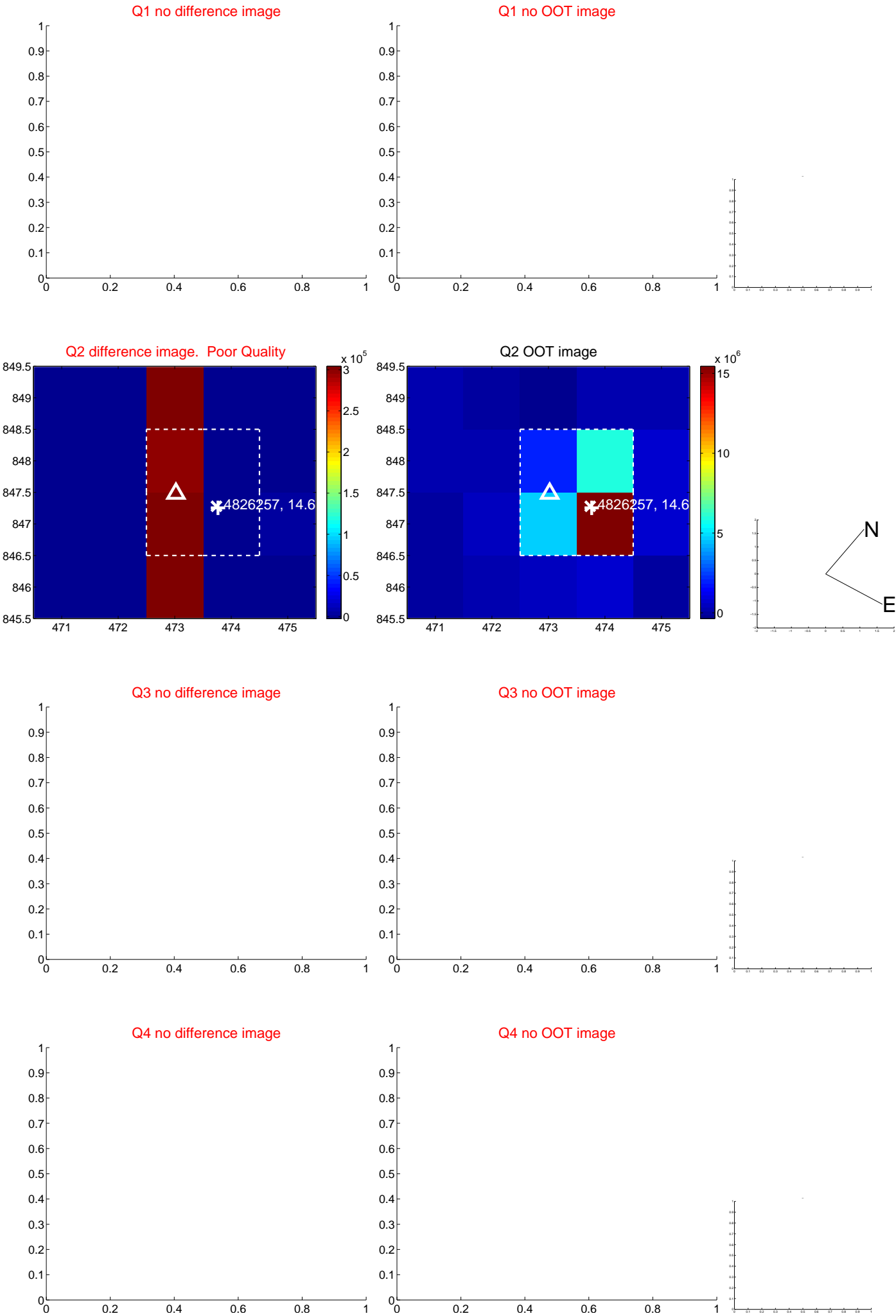
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.063 ± 0.075	40.67	-2.872 ± 0.076	-1.063 ± 0.070
PRF-fit source offset from KIC position	3.012 ± 0.073	41.30	-2.803 ± 0.067	-1.104 ± 0.101
photometric centroid source offset	3.90 ± 0.40	9.82	-3.00 ± 0.44	-2.48 ± 0.33

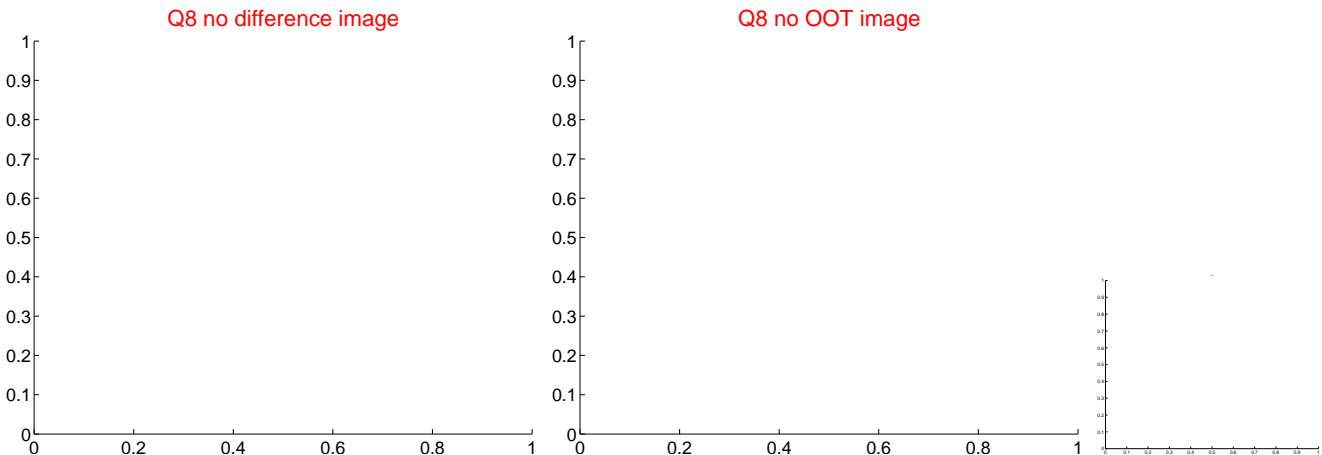
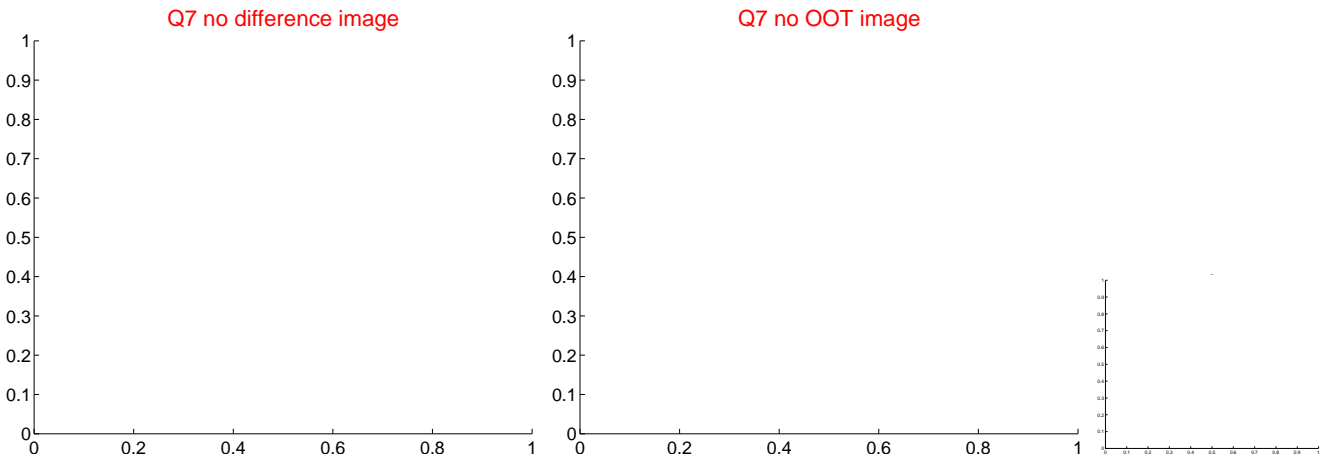
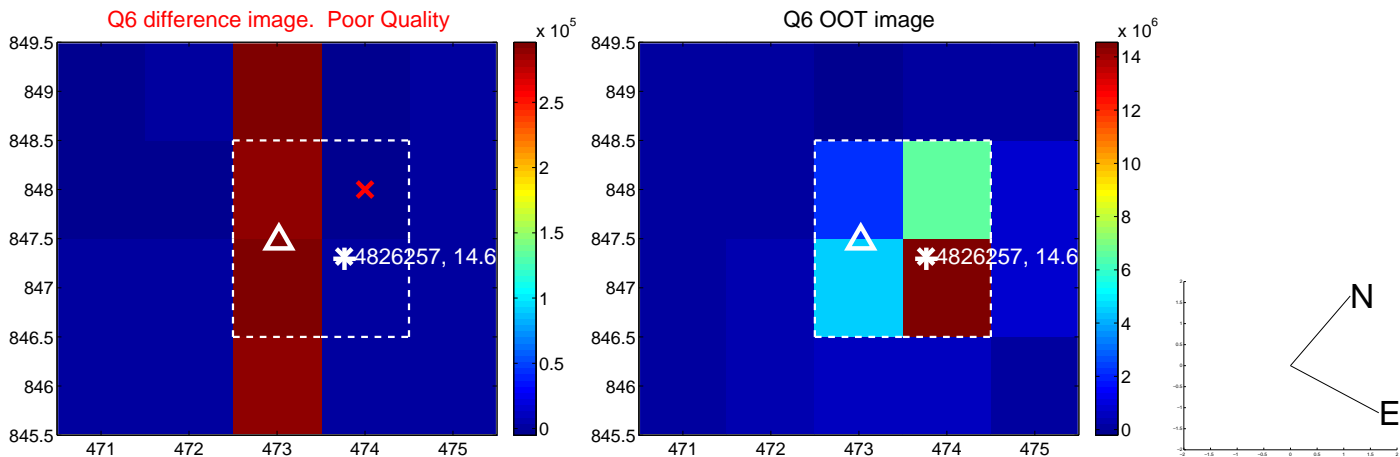
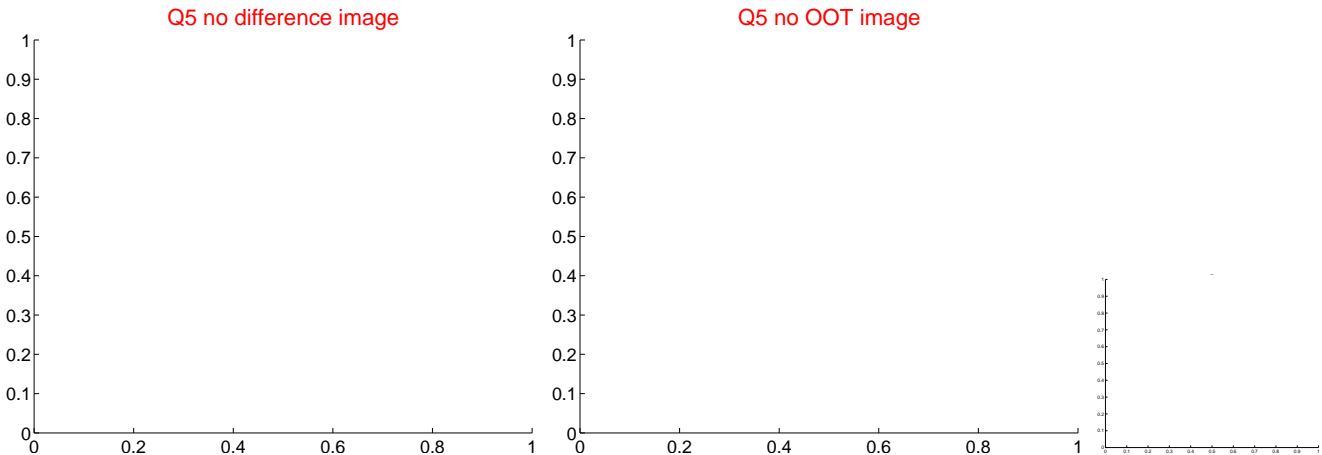


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

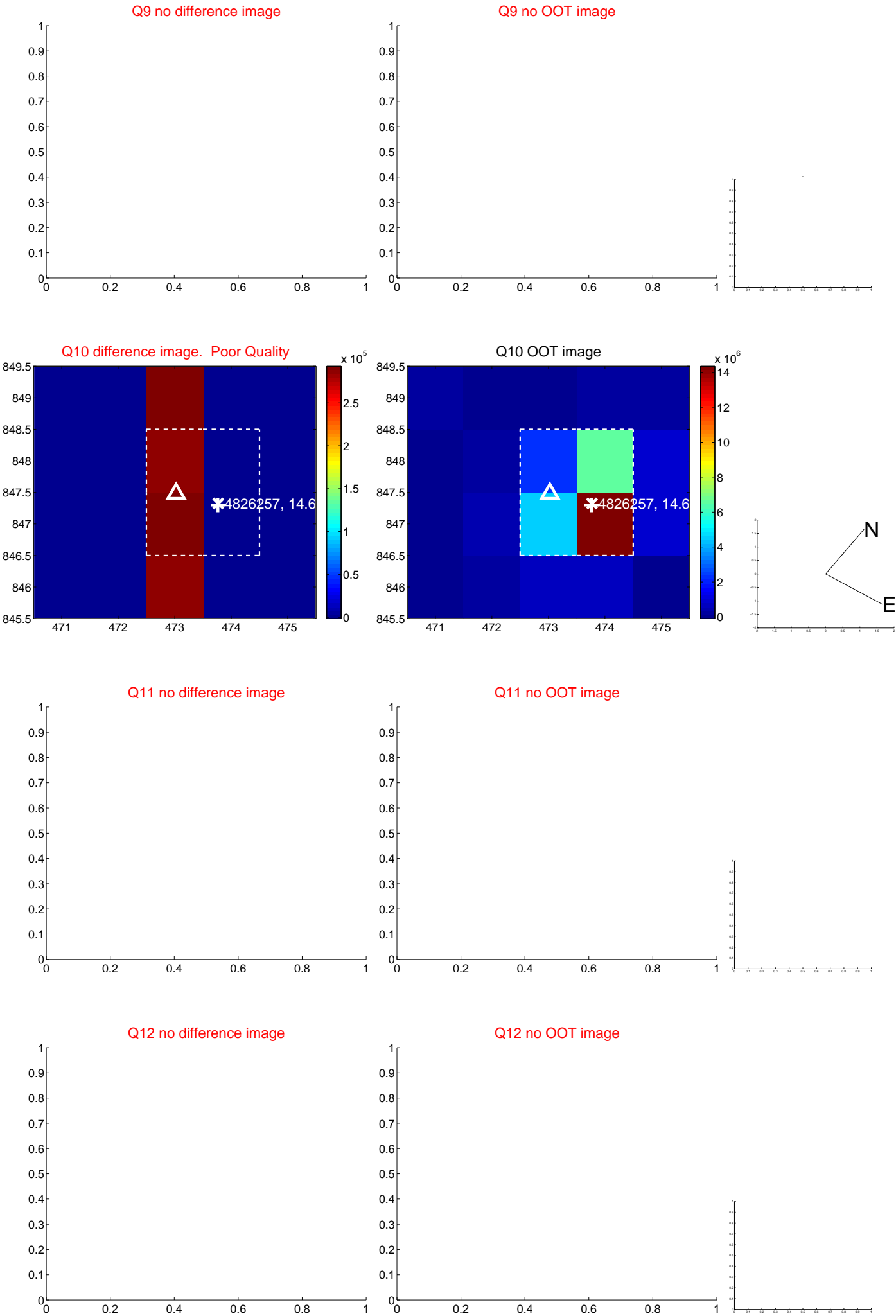
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



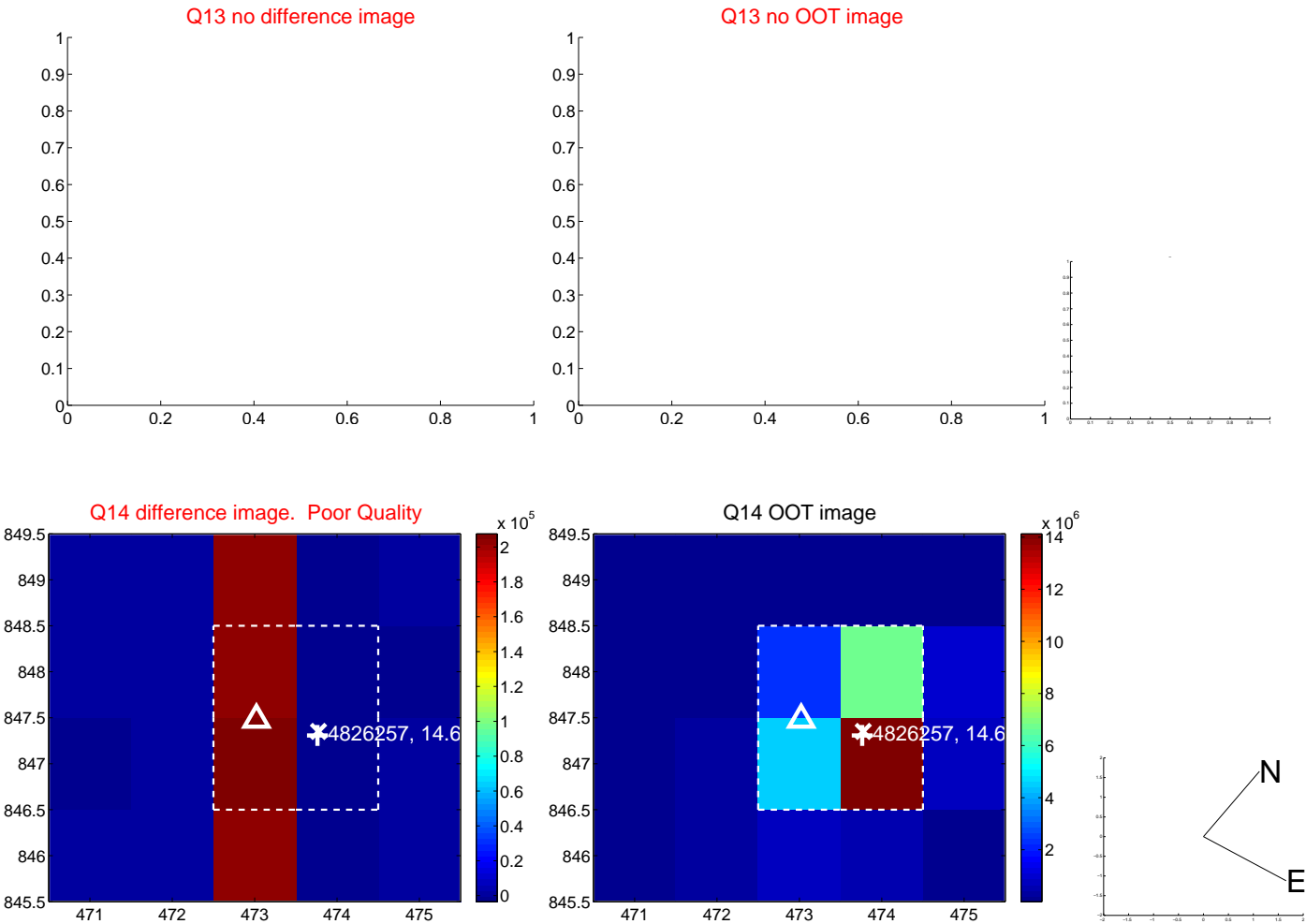
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



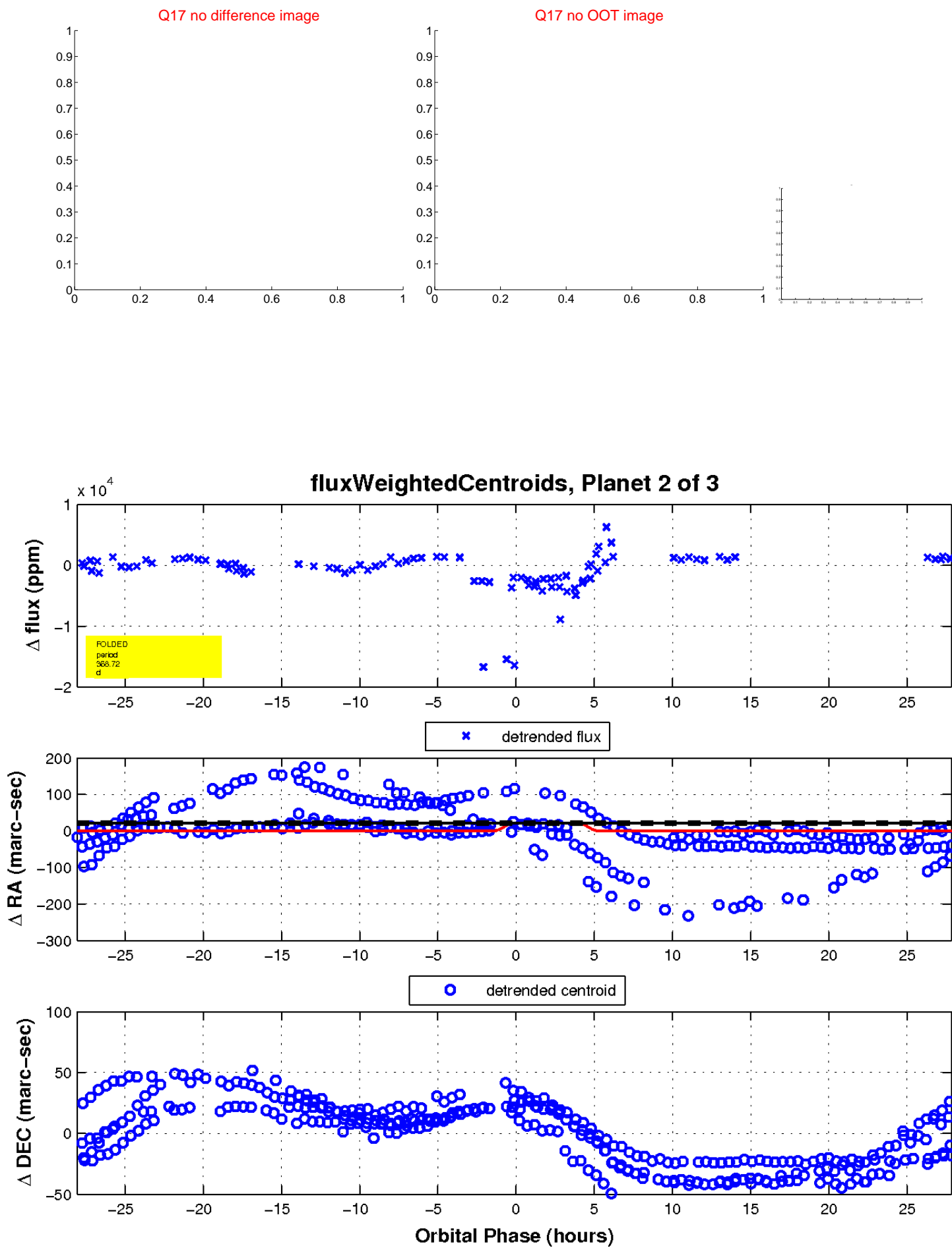
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

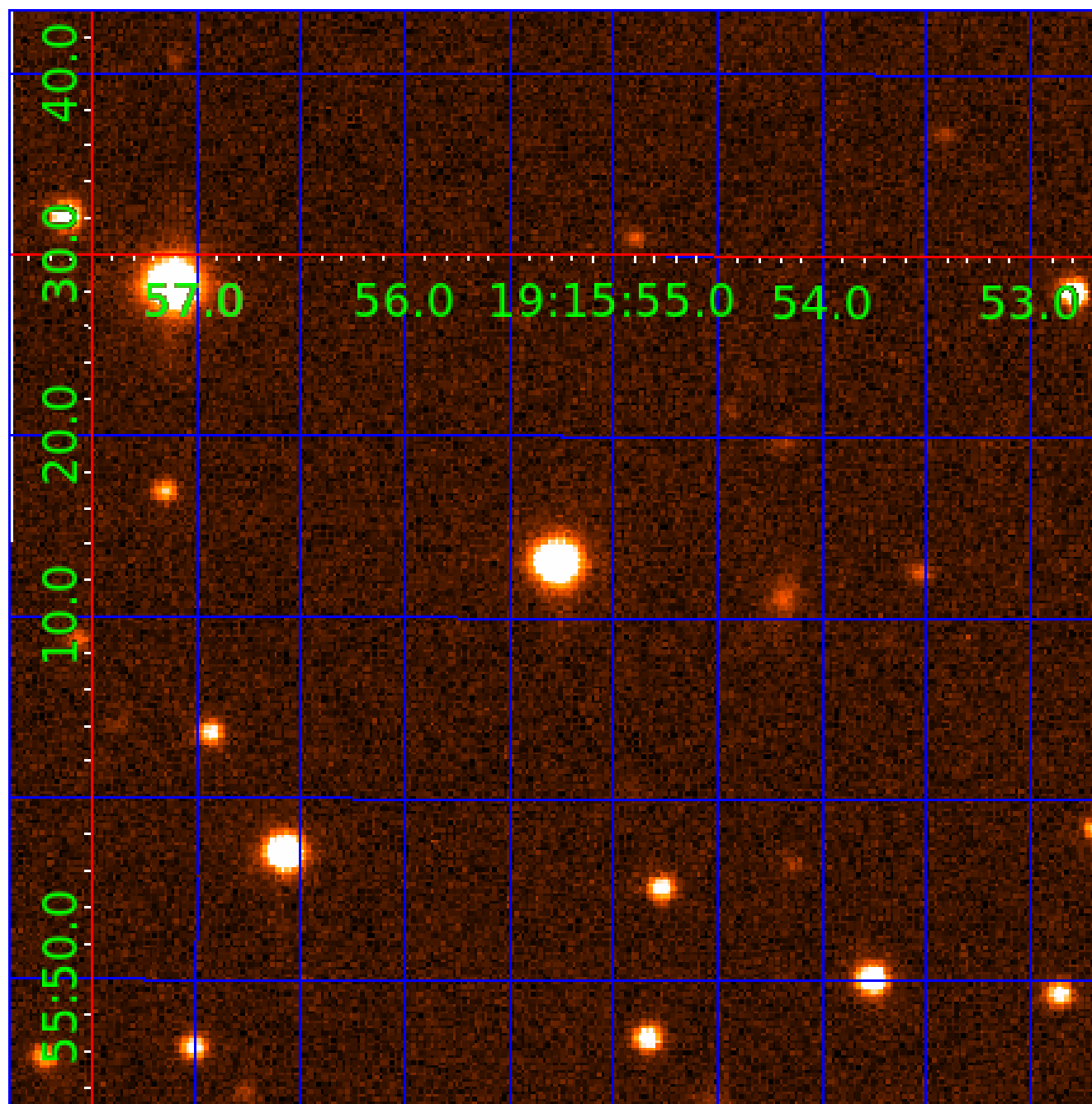


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 004826257

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})
004826257-01	OBS	No	368.500495	174.134959	4805.4	24.139	51.7	17.4	1.03	6195	7.80	1.42
004826257-02	OBS	No	368.721938	178.525788	1324.6	3.000	11.2	-1.0	1.03	6195	3.76	1.42
004826257-03	OBS	No	364.169161	185.316196	5529.1	9.959	10.3	14.9	1.03	6195	9.21	1.44

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
004826257-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_SKYE—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
004826257-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_NOFITS
004826257-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—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.

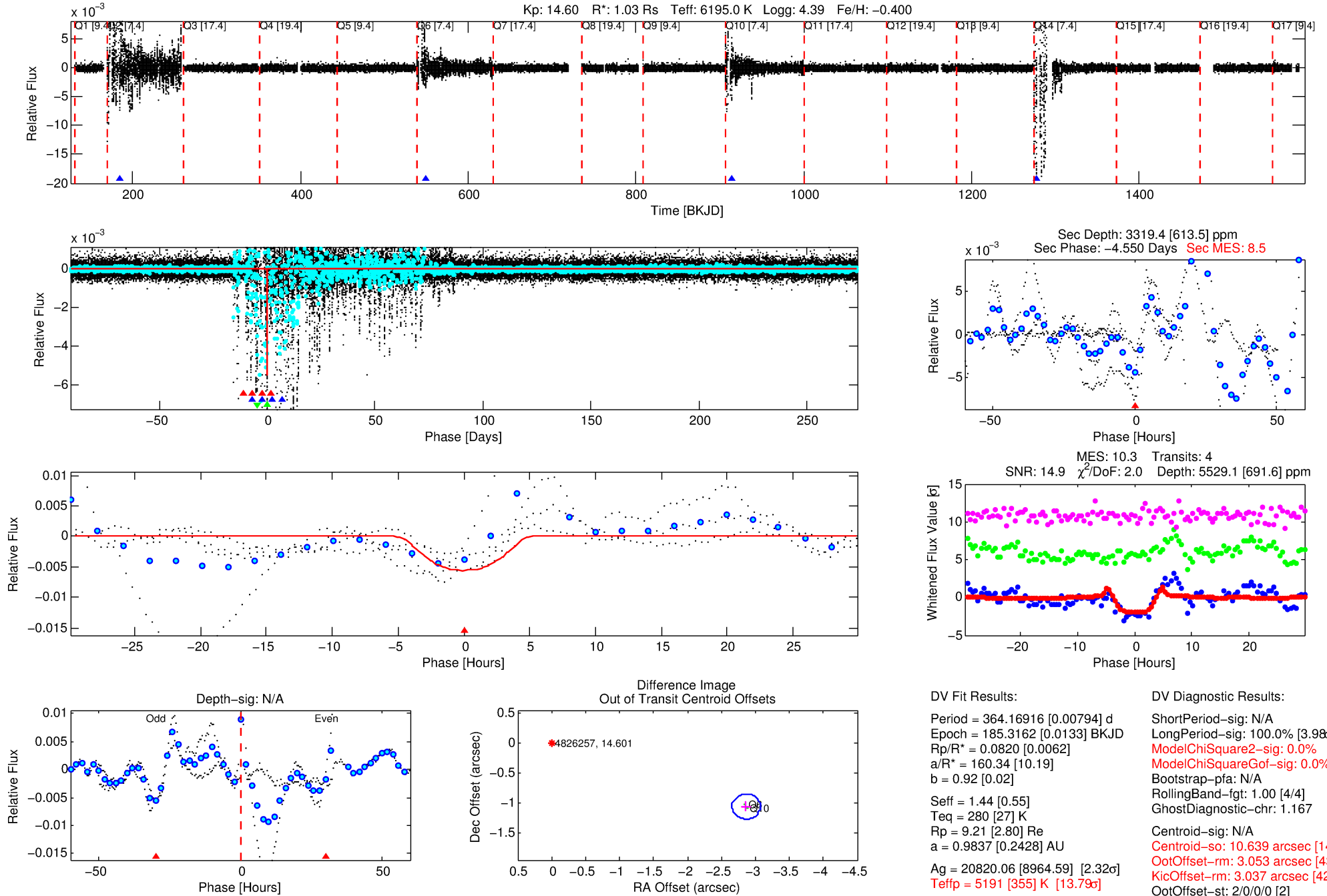
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 004826257-03

No Significant Match Found

DV One-Page Summary

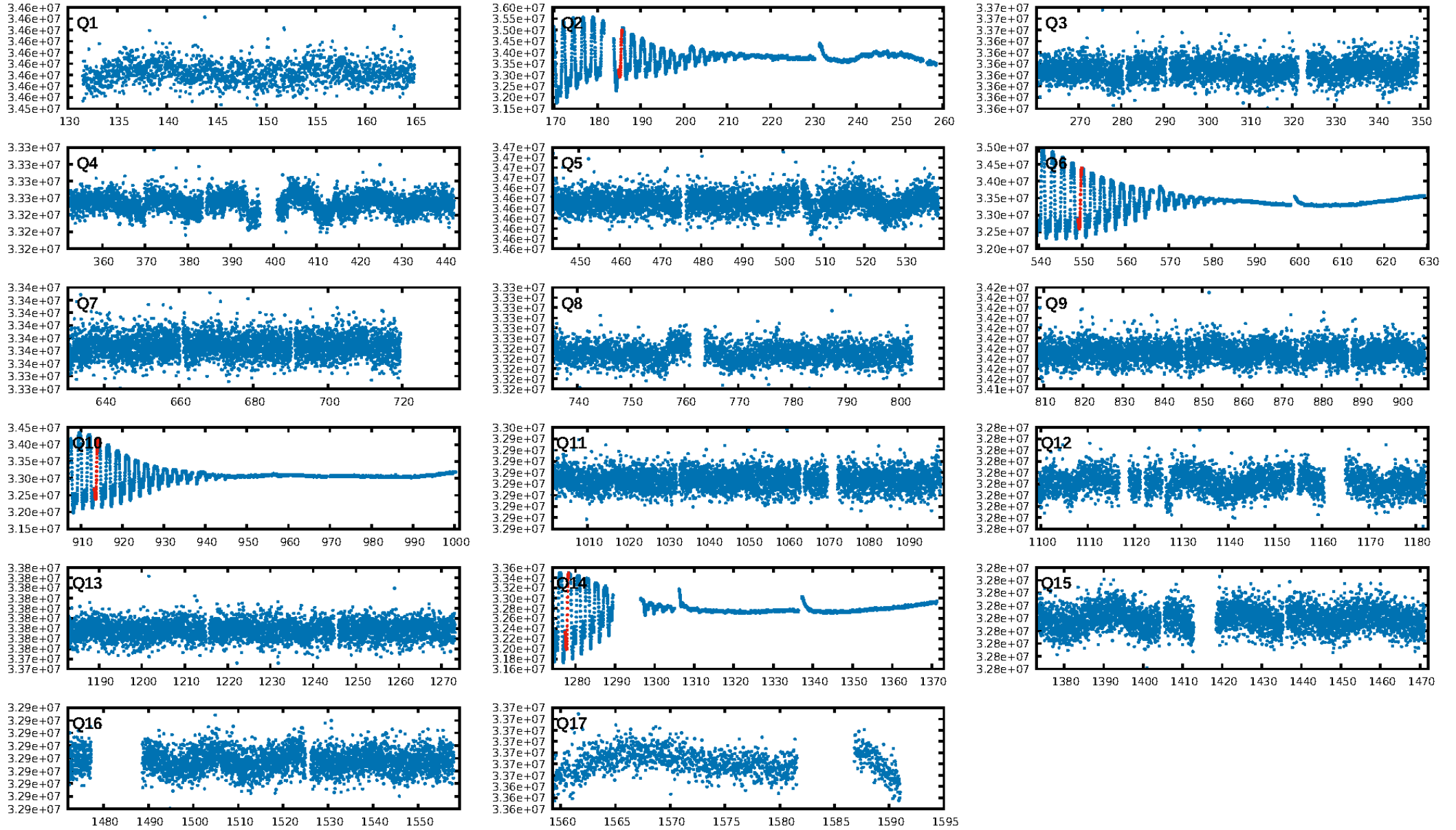
KIC: 4826257 Candidate: 3 of 3 Period: 364.169 d



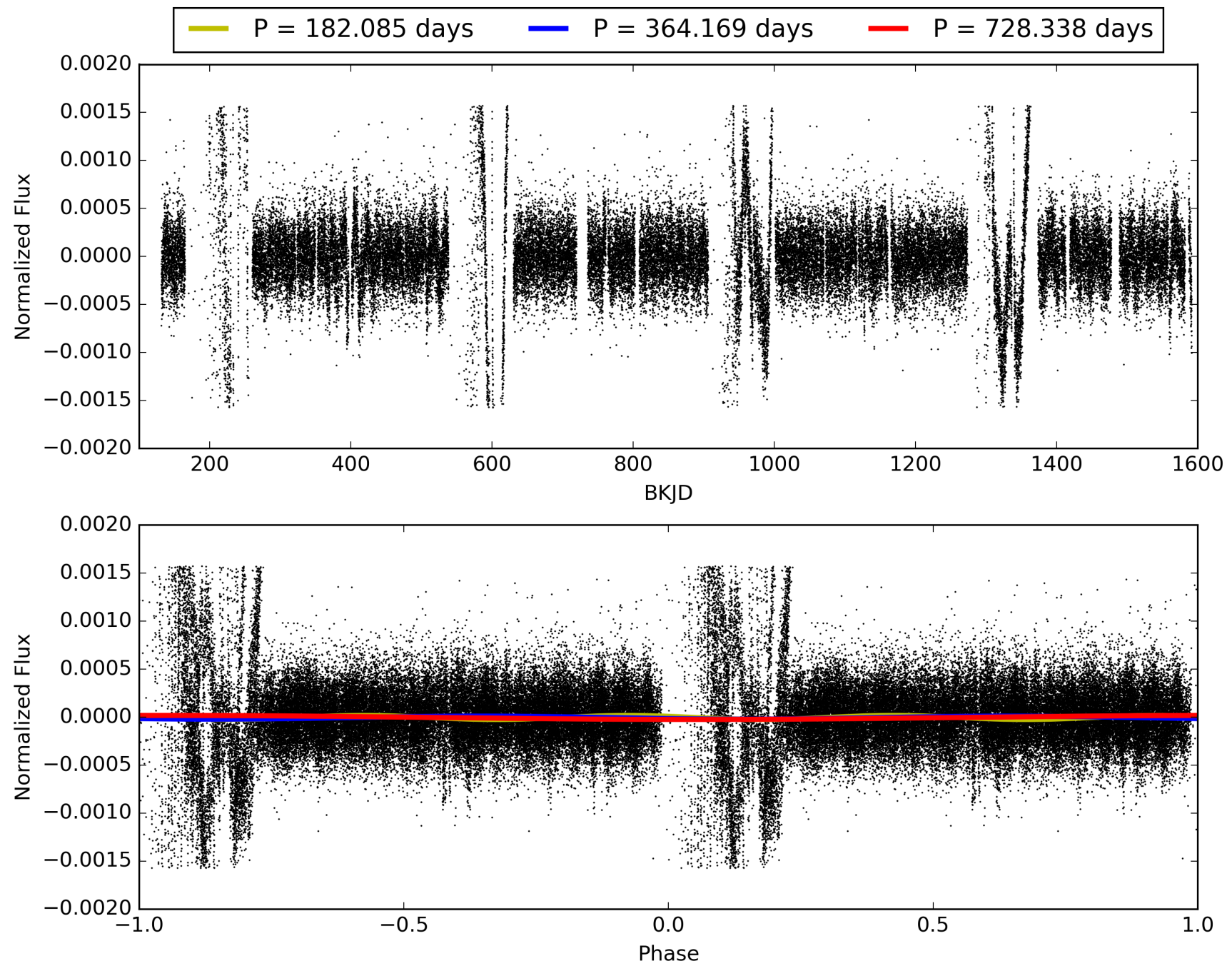
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 02-Feb-2016 00:28:05 Z

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

TCE 004826257-03, PDC Light Curves

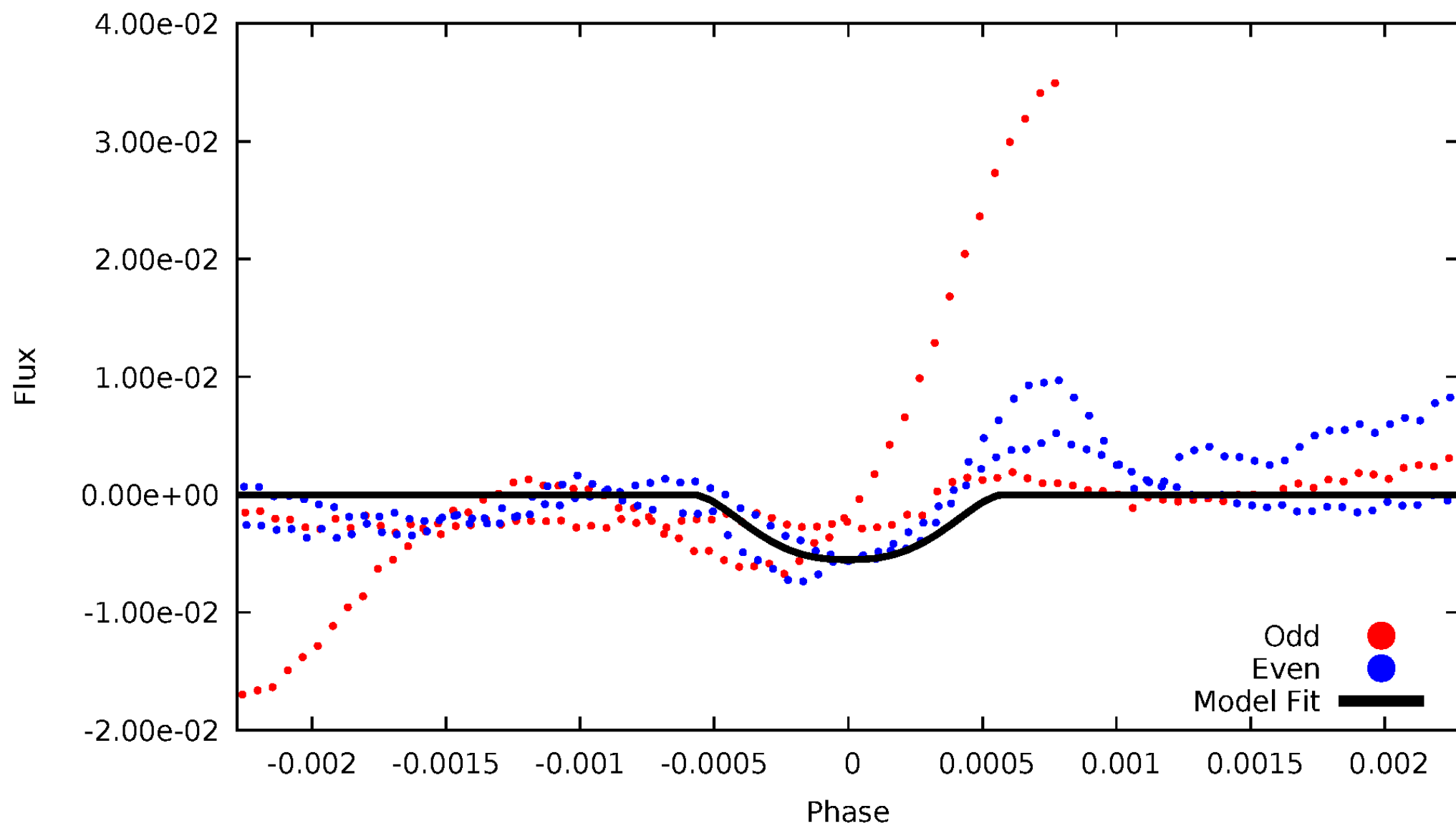


TCE 004826257-03



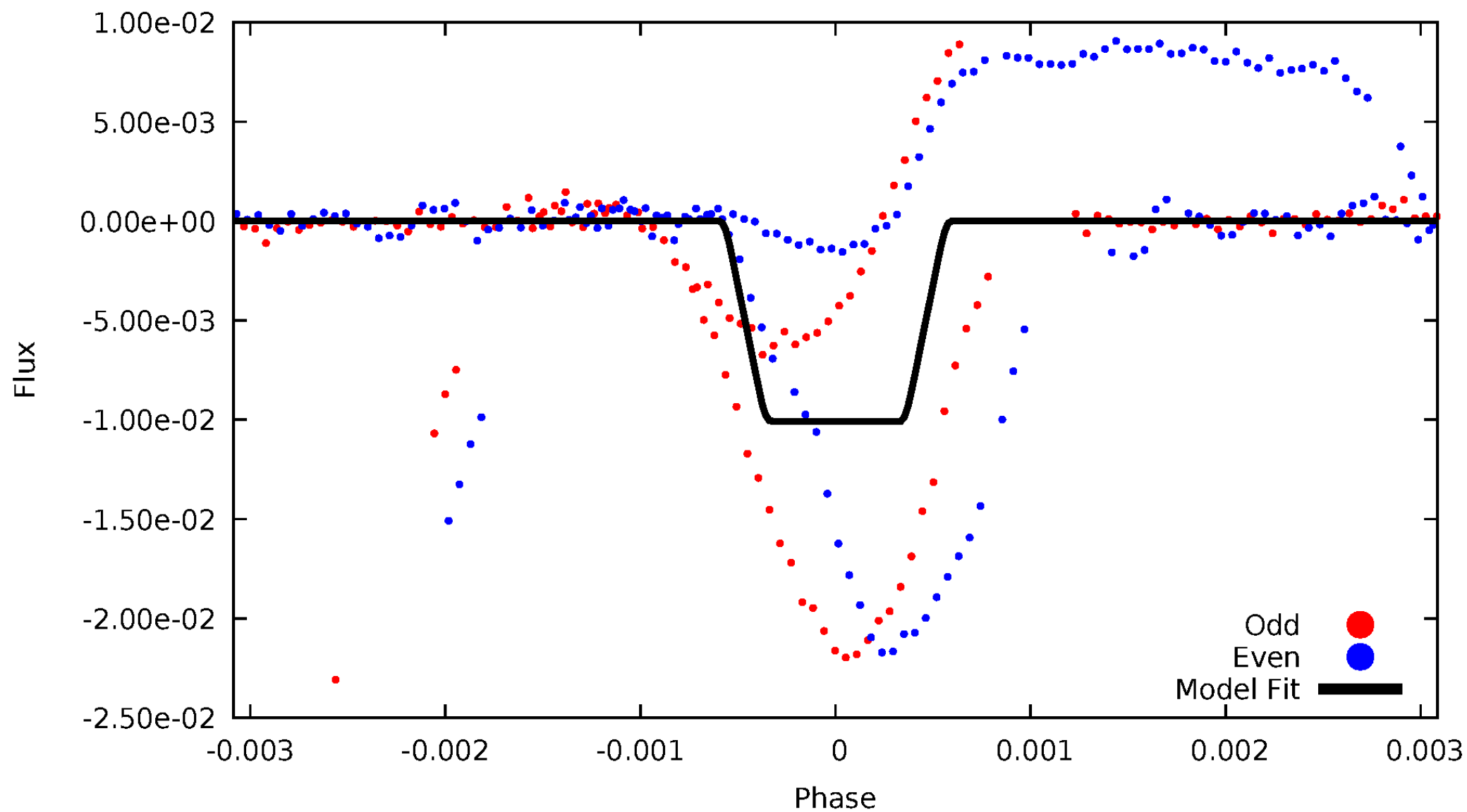
DV Odd/Even

TCE 004826257-03



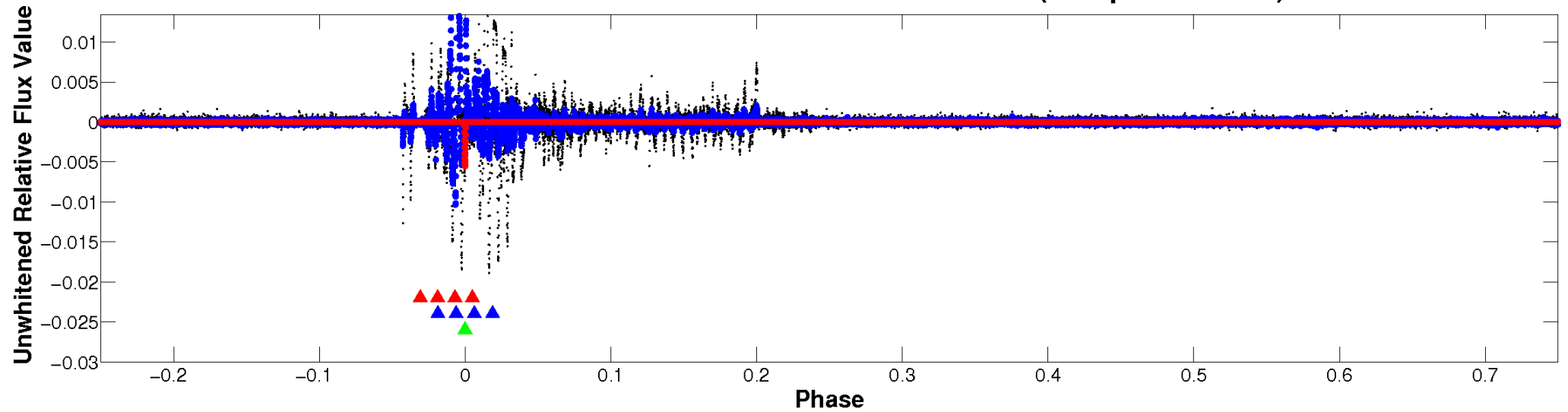
ALT Odd/Even

TCE 004826257-03

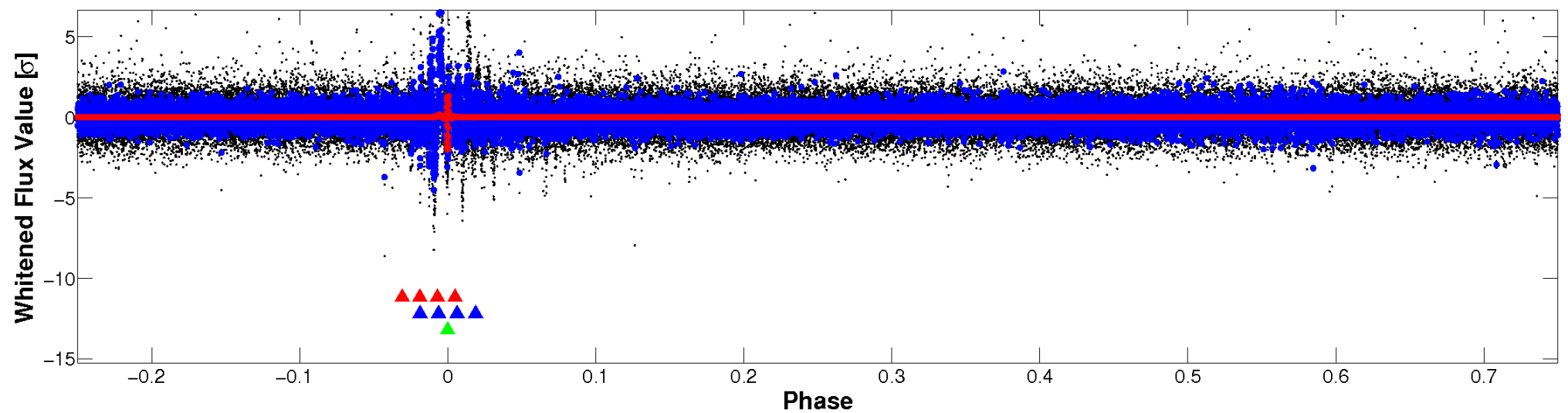


Non-Whitened Vs. Whitened Light Curve

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

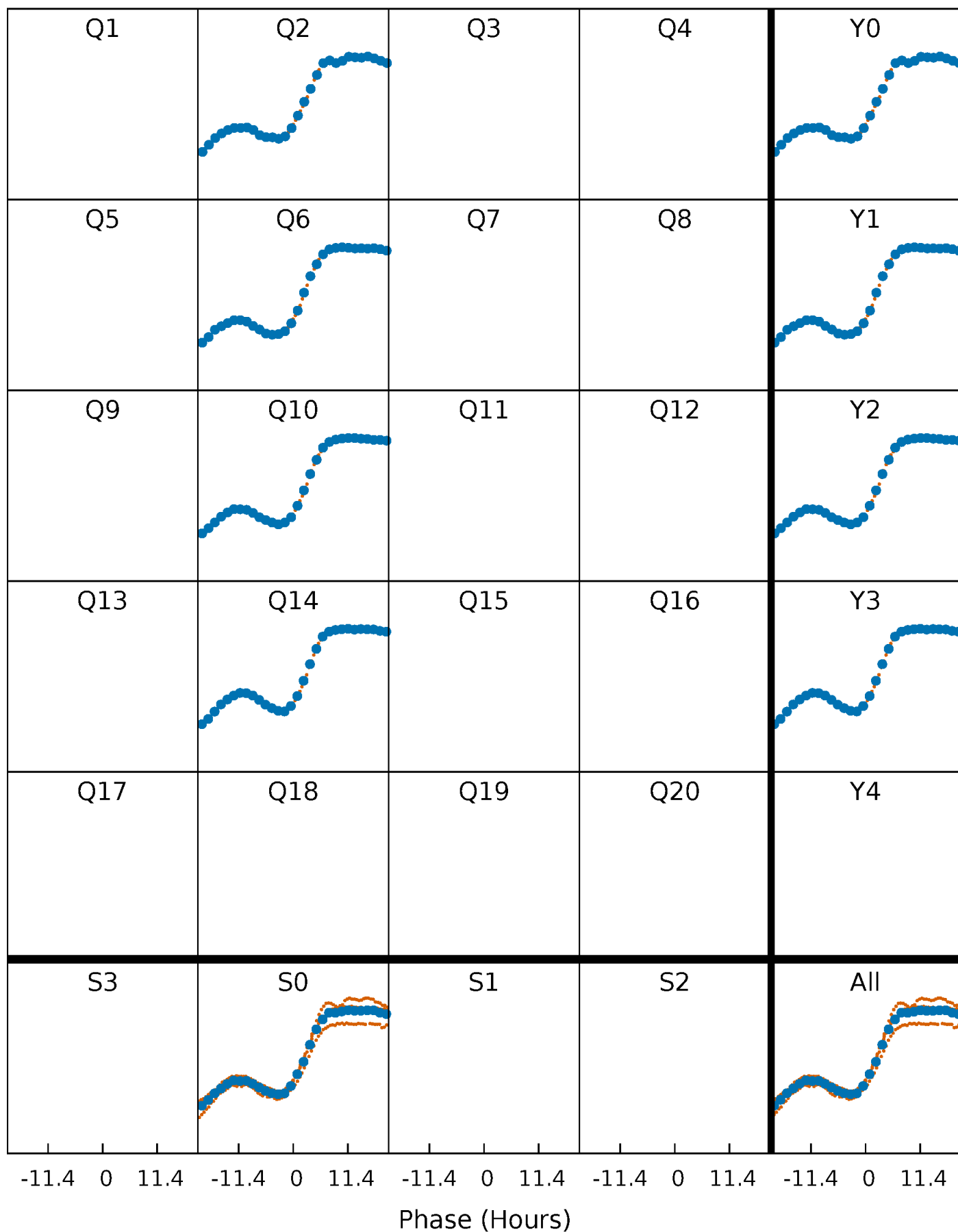


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



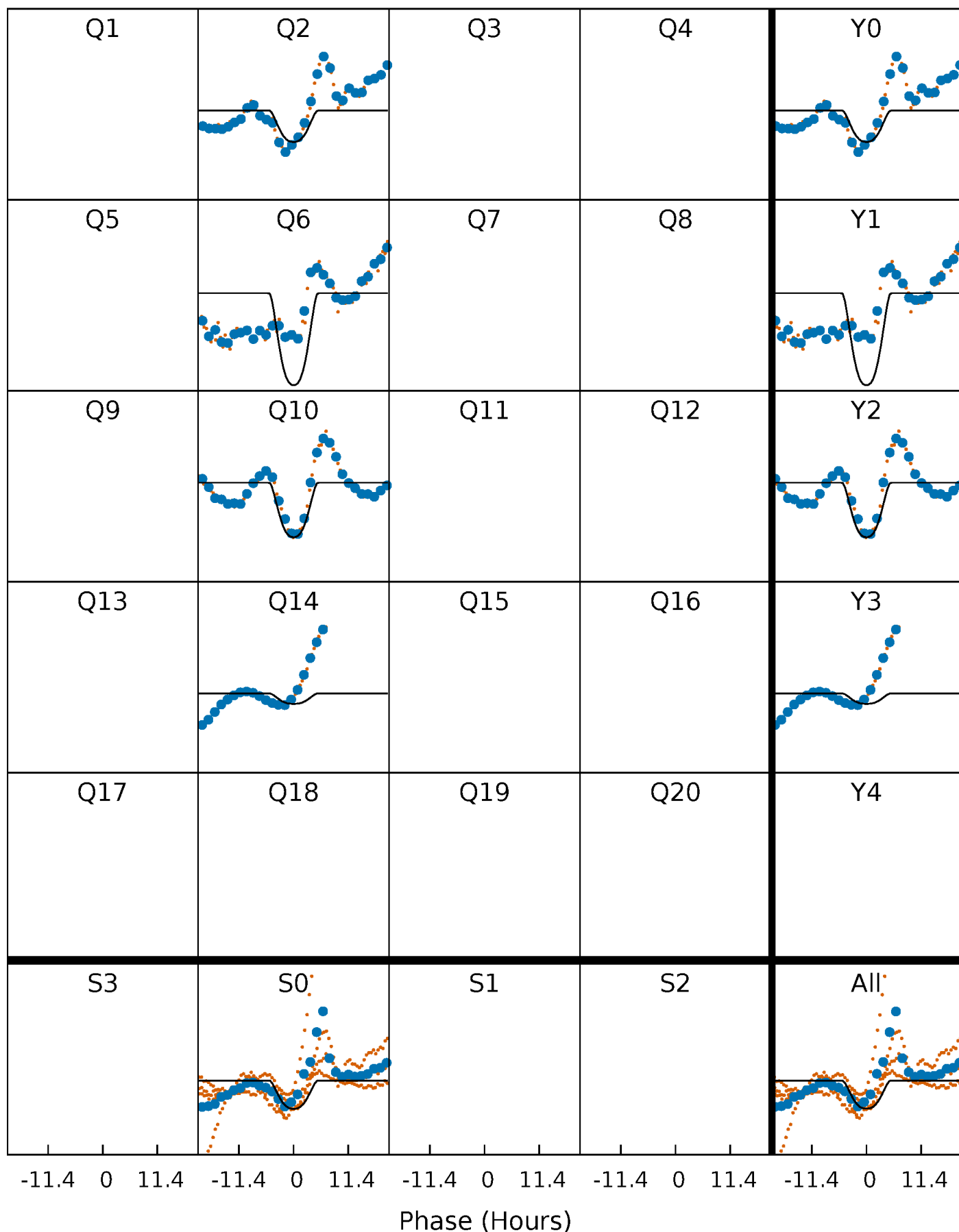
PDC Quarter-Phased Transit Curves

TCE 004826257-03 P=364.169161 Days $T_0=185.316196$ (BKJD)



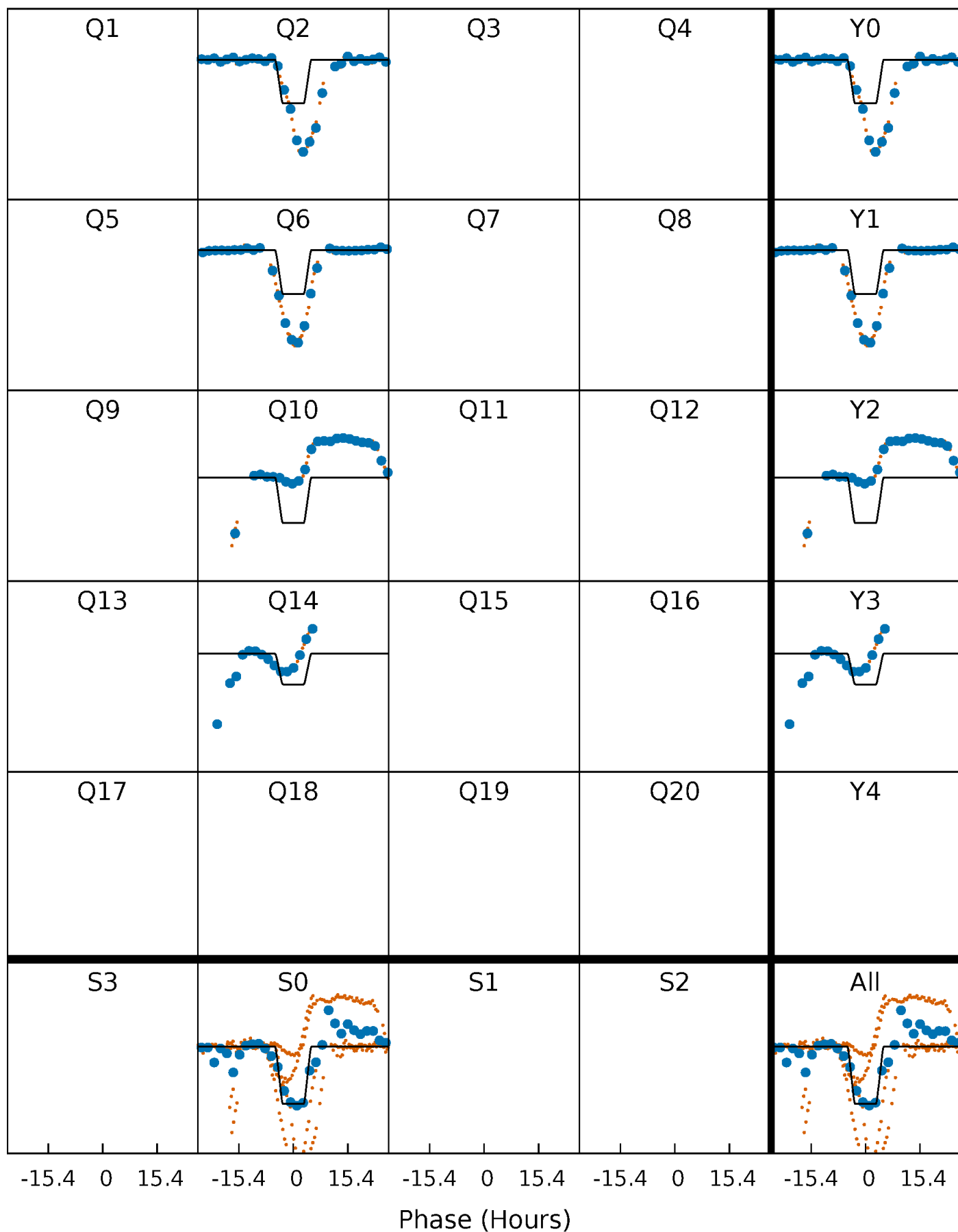
DV Quarter-Phased Transit Curves

TCE 004826257-03 P=364.169161 Days $T_0=185.316196$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

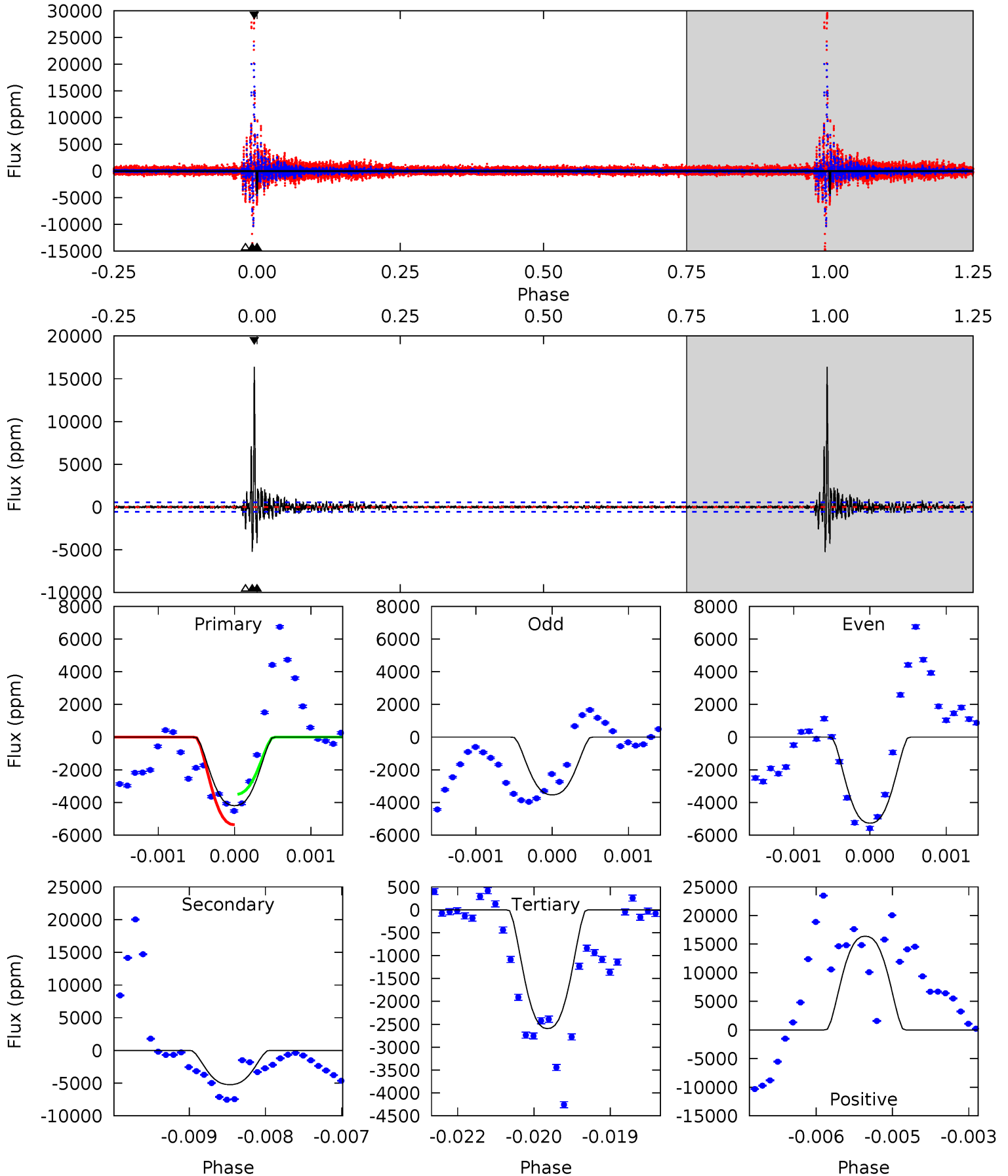
TCE 004826257-03 P=364.235018 Days $T_0=185.167757$ (BKJD)



DV Model-Shift Uniqueness Test

004826257-03, P = 364.169161 Days, E = 185.316196 Days

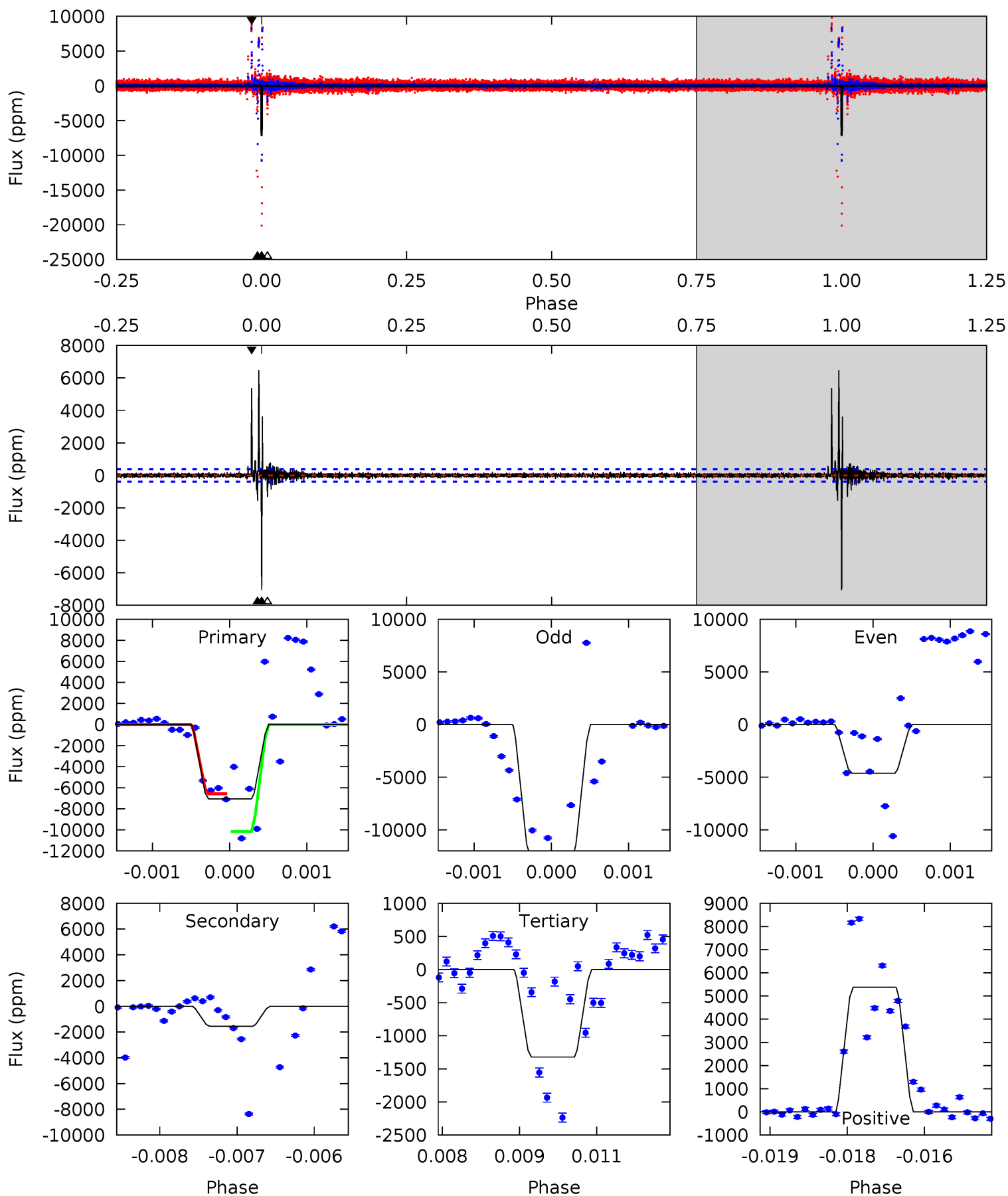
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.2	51.4	25.5	161.0	5.43	3.25	4.68	15.7	-119.8	25.9	-109.7	5.81	0.81	0.76	8.76



Alt Model-Shift Uniqueness Test

004826257-03, P = 364.235018 Days, E = 185.167757 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
100.8	22.1	18.9	76.8	5.42	3.24	2.39	81.9	24.0	3.22	-54.7	61.2	1.03	0.48	0



Stellar Parameters For KIC 004826257

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6195^{+169}_{-206}	$4.394^{+0.105}_{-0.195}$	$-0.400^{+0.300}_{-0.300}$	$1.029^{+0.303}_{-0.140}$	$0.956^{+0.136}_{-0.111}$	$1.238^{+0.654}_{-0.610}$
	+3%/-3%	+2%/-4%	+75%/-75%	+29%/-14%	+14%/-12%	+53%/-49%
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 004826257-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-5227 ± 102	$9.36^{+1.63}_{-1.16}$	393^{+30}_{-21}	5817^{+267}_{-239}	31613^{+9072}_{-8051}
Alt.	-1547 ± 70	$11.50^{+1.98}_{-1.30}$	394^{+30}_{-21}	4150^{+139}_{-129}	6183^{+1559}_{-1553}

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

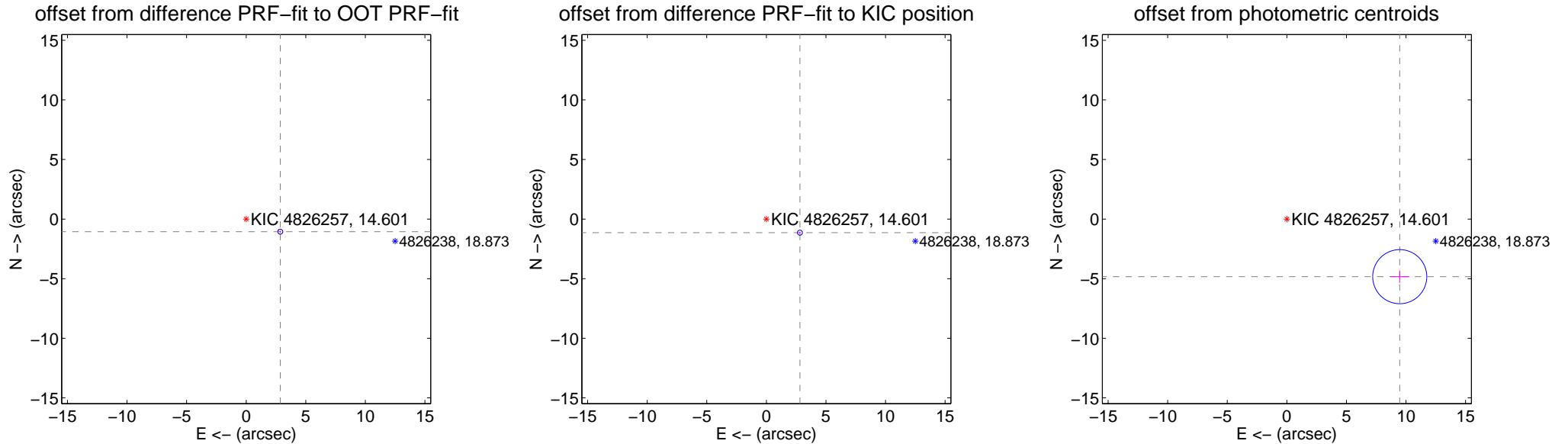
DV Centroid Data

Supplemental centroid analysis for 004826257-03. Kepler magnitude: 14.60. Transit SNR 14.88

There are 0 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.053 ± 0.070	43.90	-2.864 ± 0.068	-1.059 ± 0.077
PRF-fit source offset from KIC position	3.037 ± 0.071	42.89	-2.815 ± 0.068	-1.140 ± 0.084
photometric centroid source offset	10.64 ± 0.76	14.06	-9.48 ± 0.81	-4.83 ± 0.52

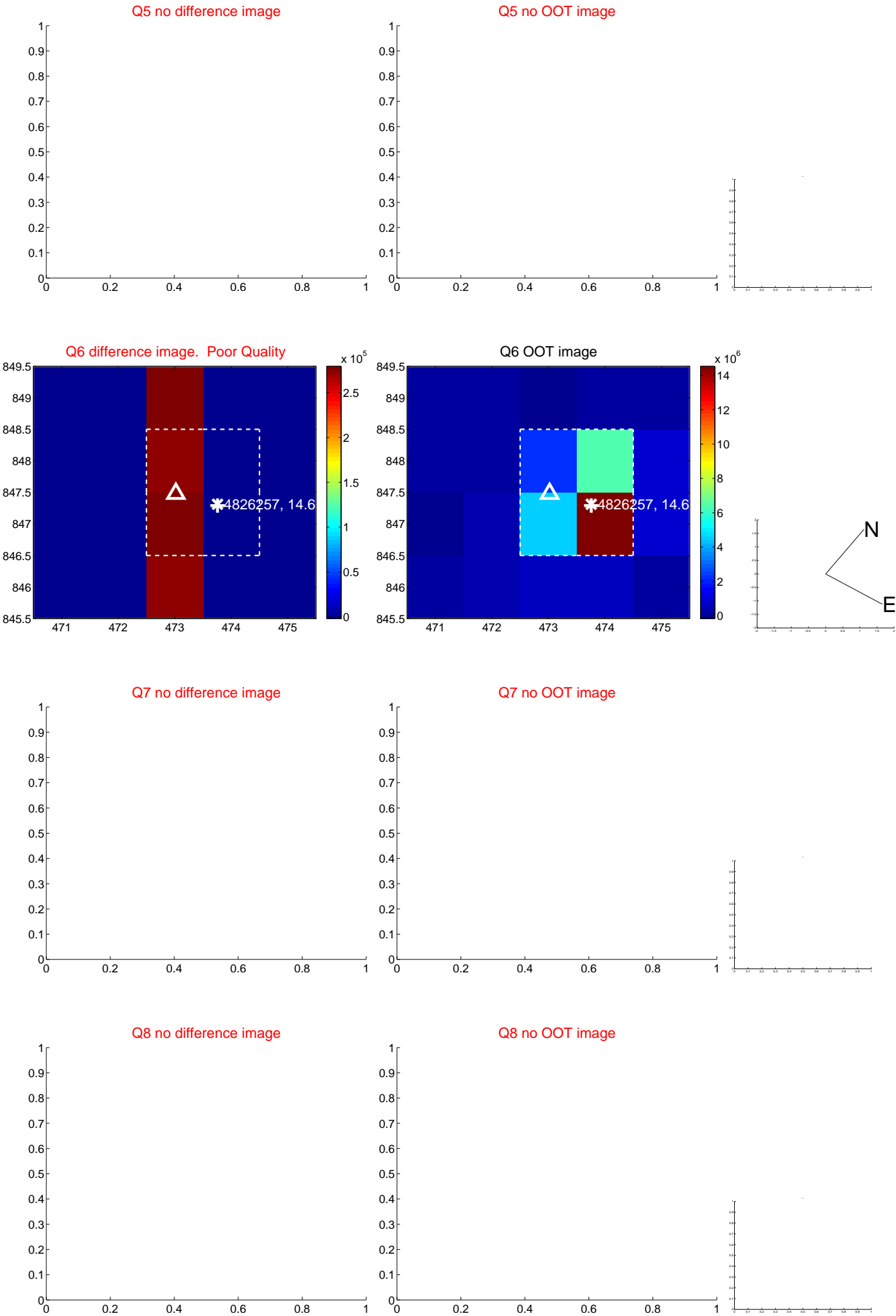


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

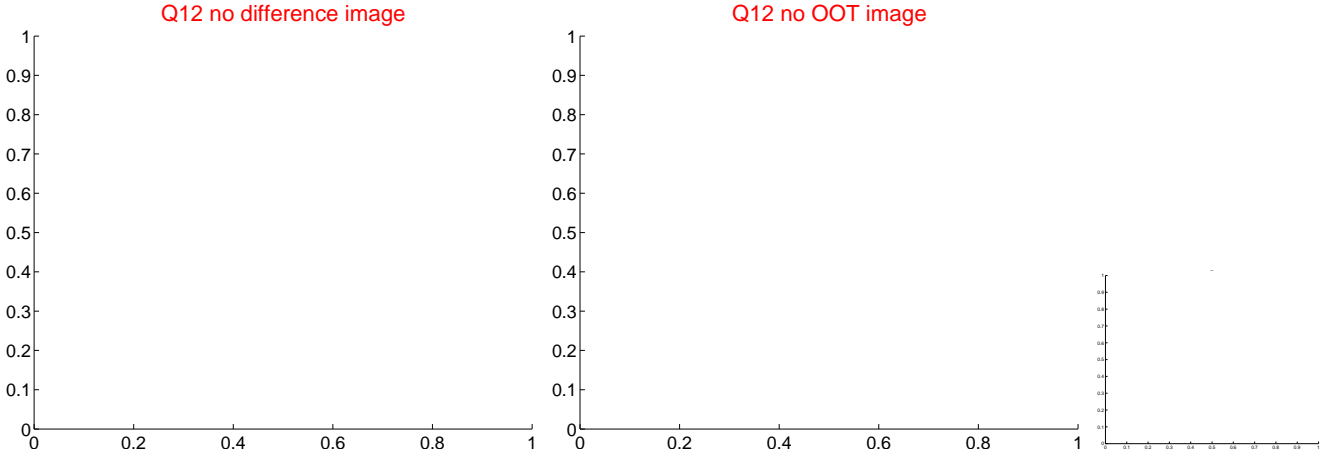
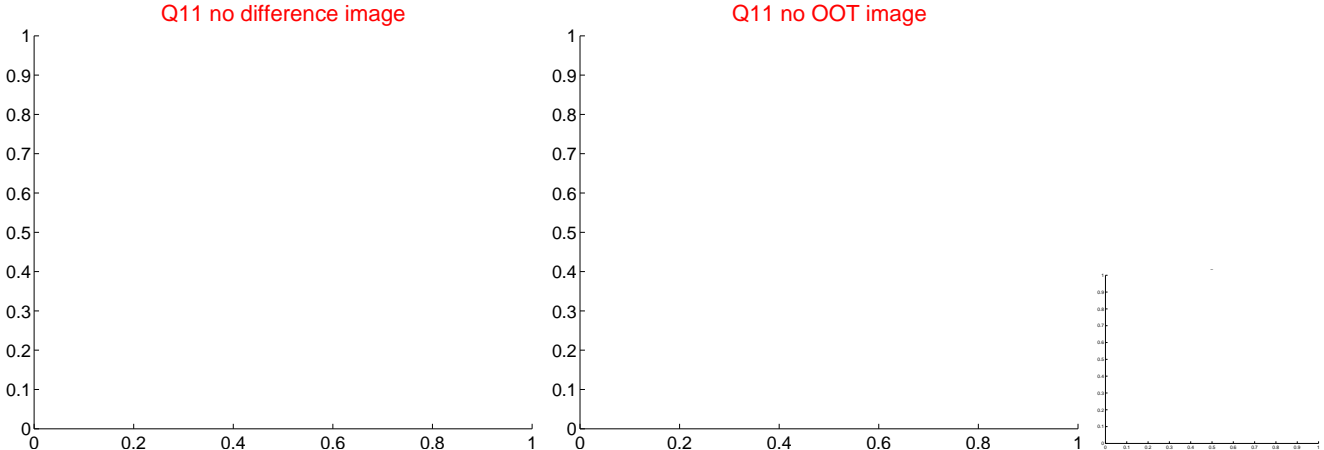
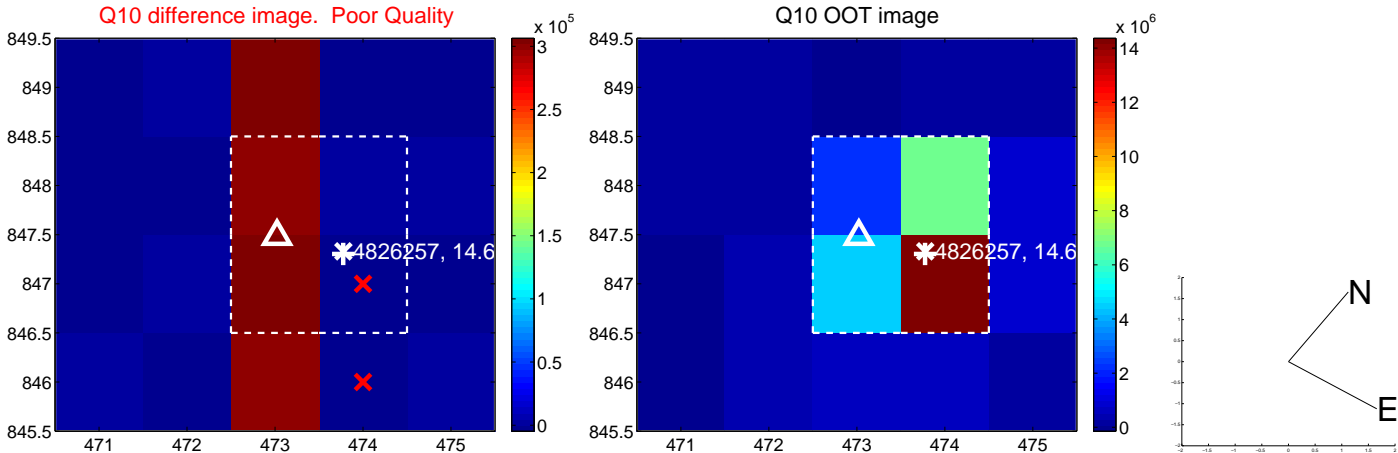
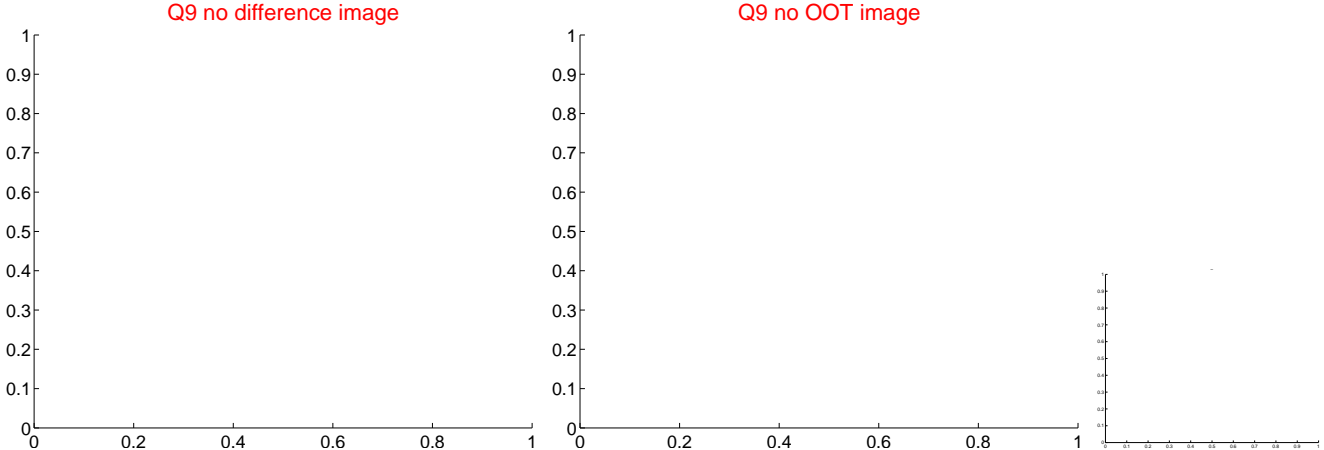
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



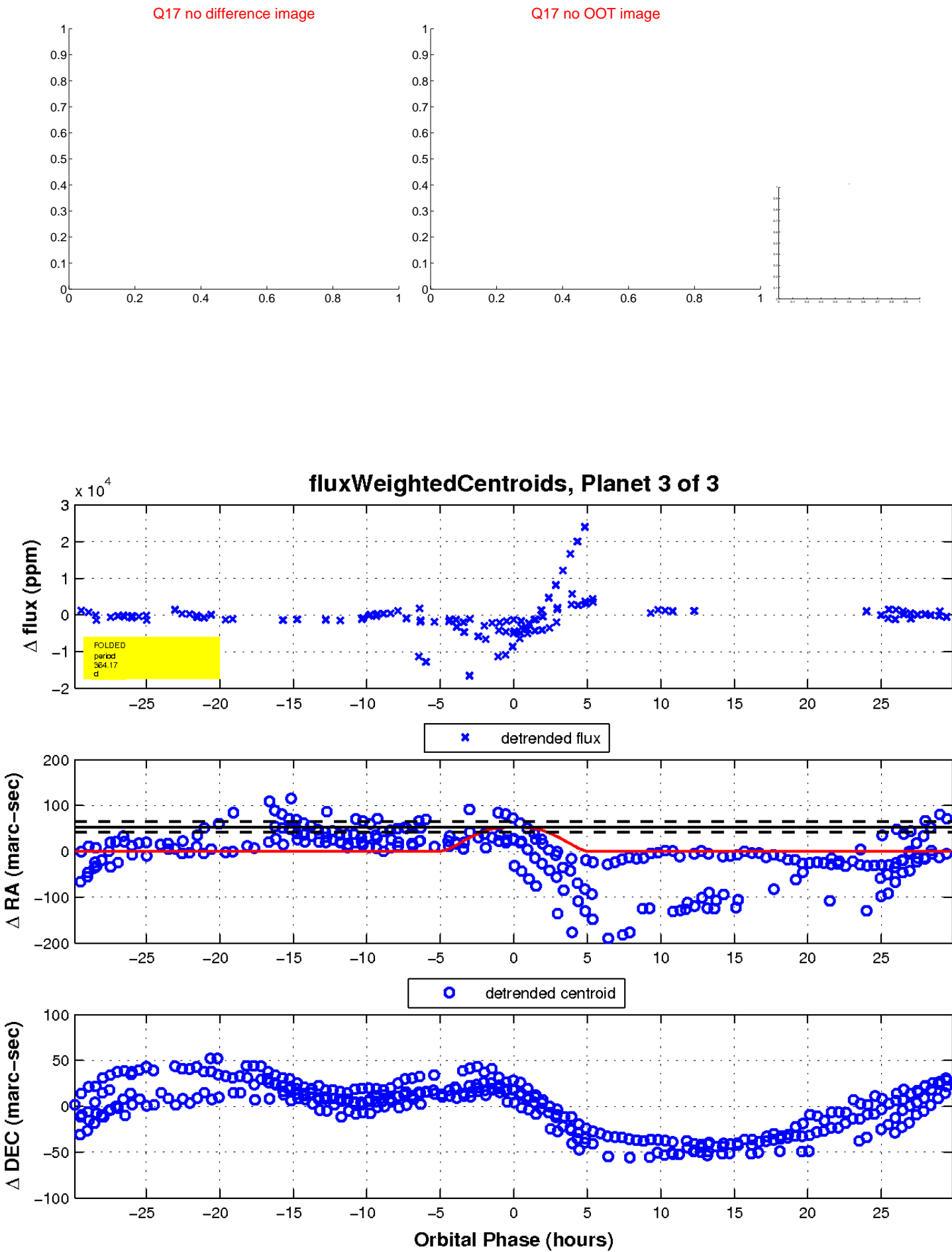
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UKIRT Image

Declination

