

KIC 006186082

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})
006186082-01	OBS	No	367.877310	357.108216	3.4	38.282	13.0	0.0	0.43	3620	0.08	0.05
006186082-02	OBS	No	394.501169	183.744213	1675.6	7.592	14.0	5.2	0.43	3620	1.74	0.04
006186082-03	OBS	No	313.313342	297.894940	2116.9	2.978	11.1	7.2	0.43	3620	2.03	0.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006186082-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006186082-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006186082-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS

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

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

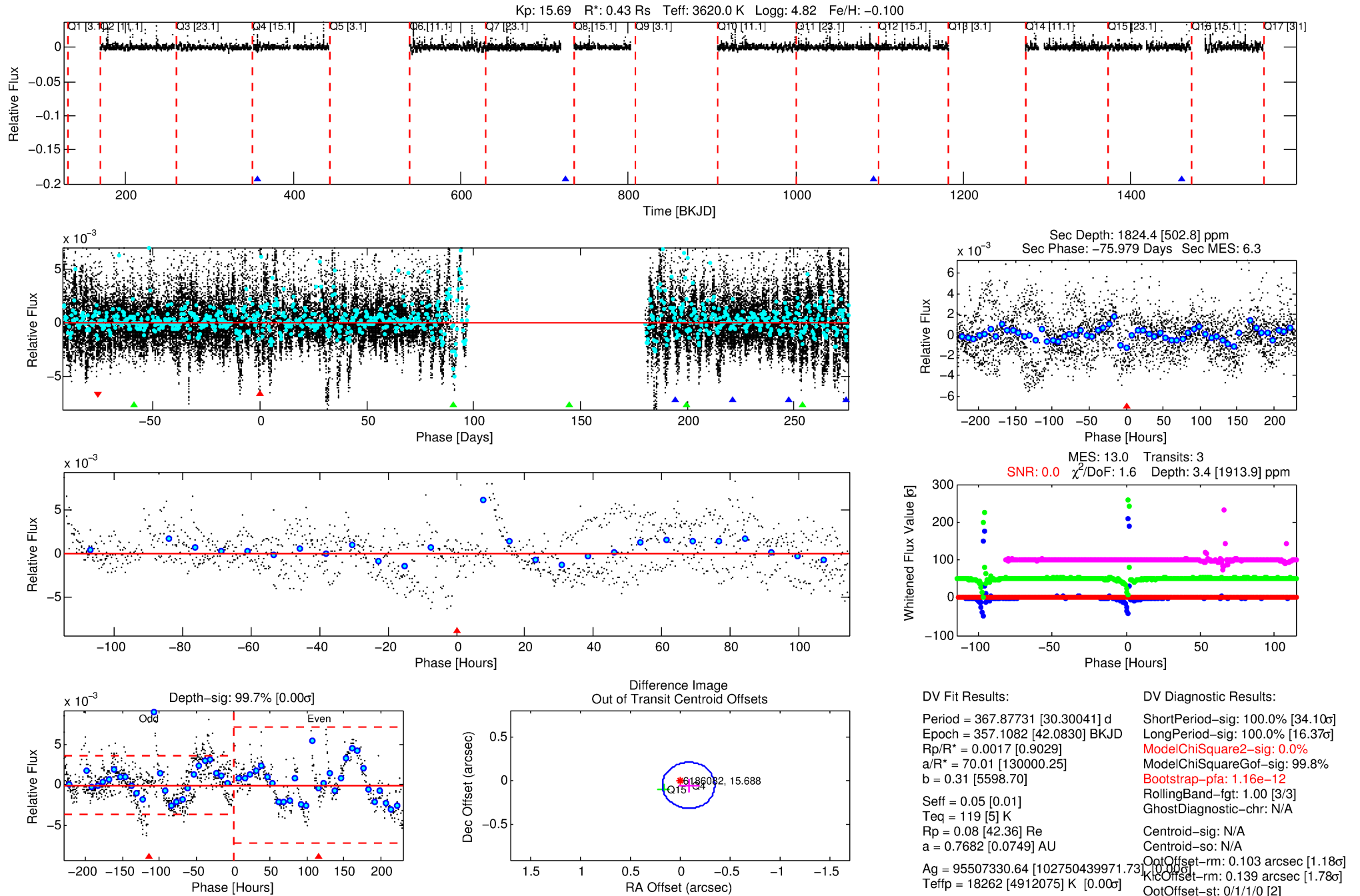
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006186082-01

No Significant Match Found

DV One-Page Summary

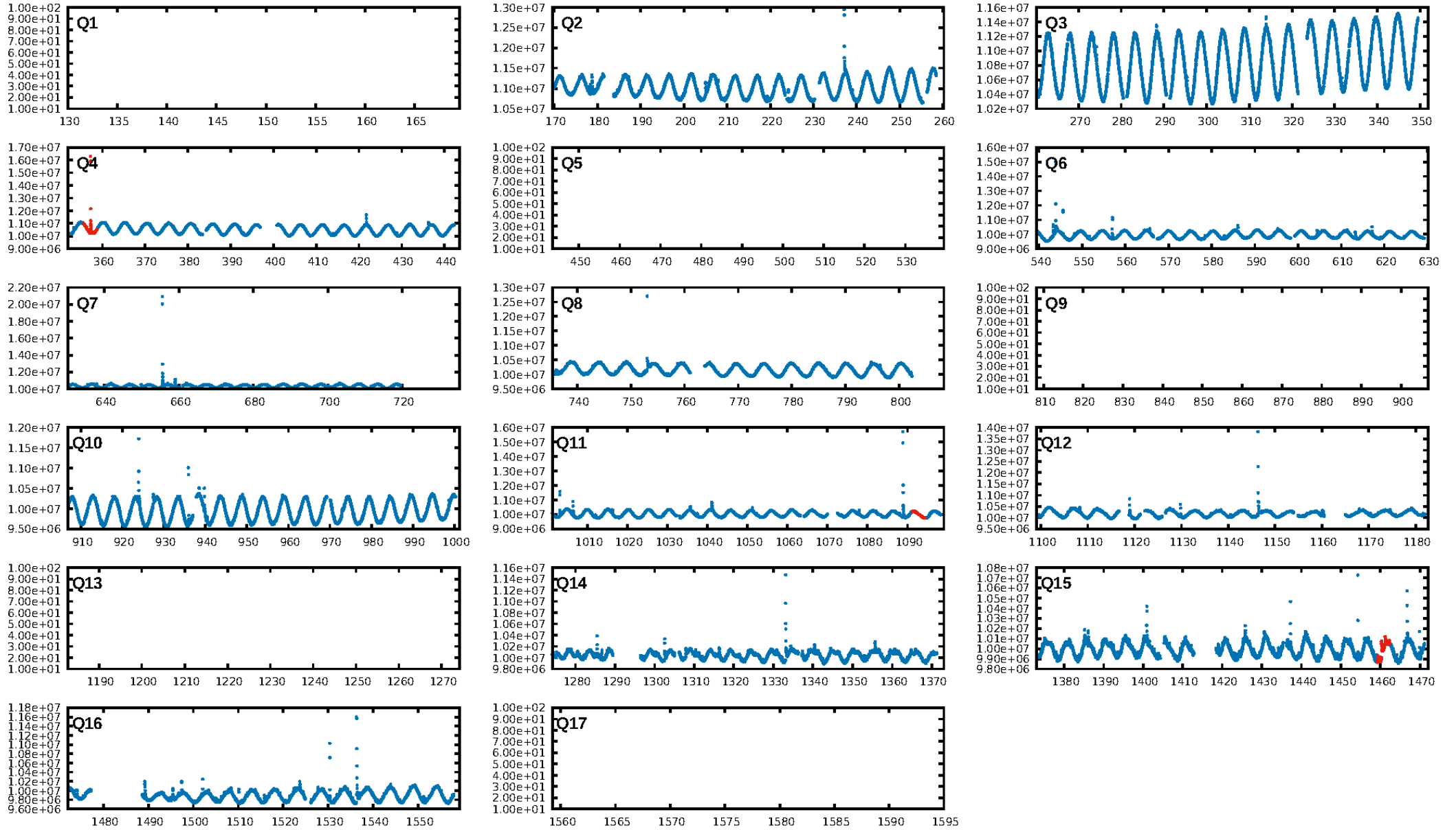
KIC: 6186082 Candidate: 1 of 3 Period: 367.877 d



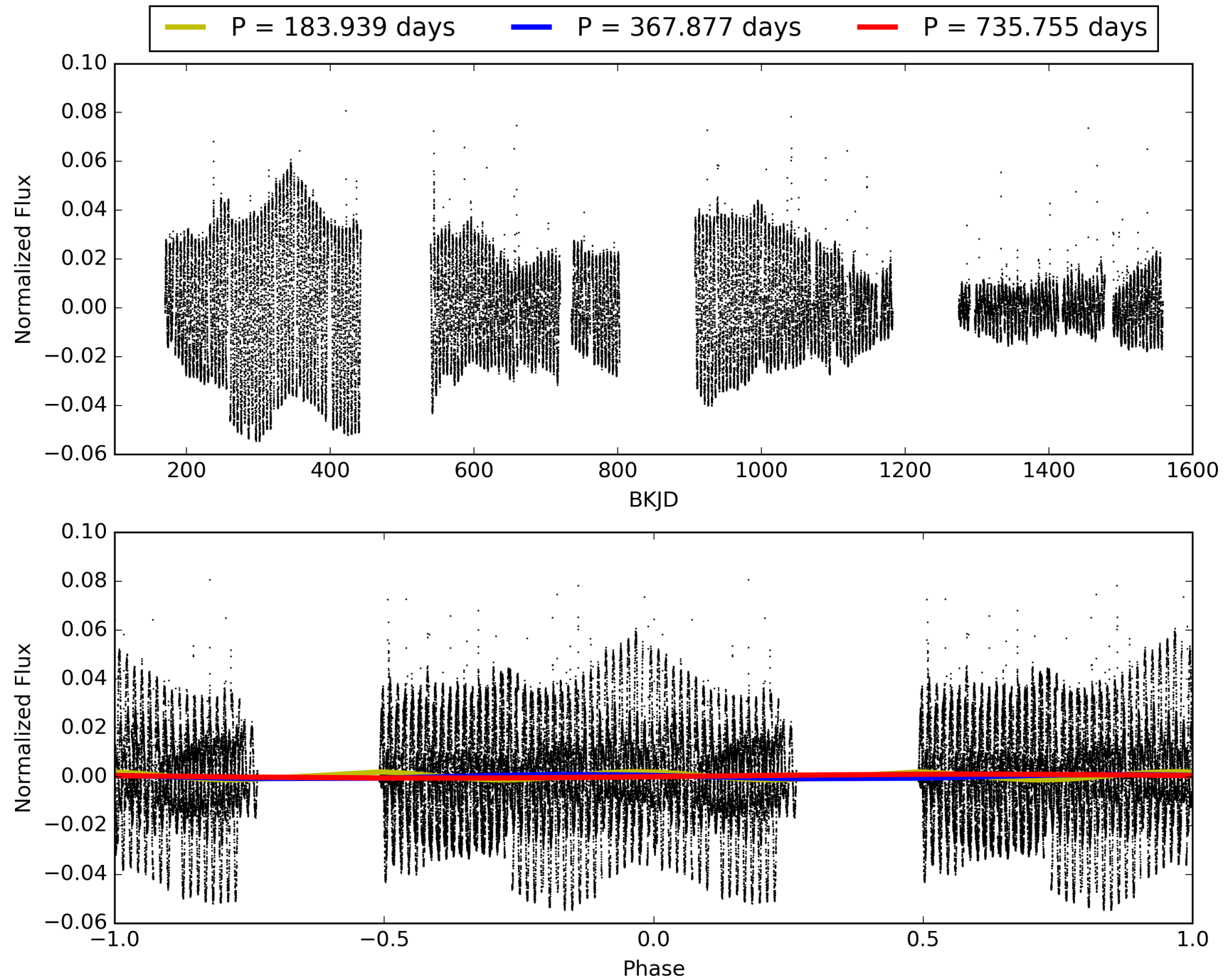
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:17:59 Z

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

TCE 006186082-01, PDC Light Curves

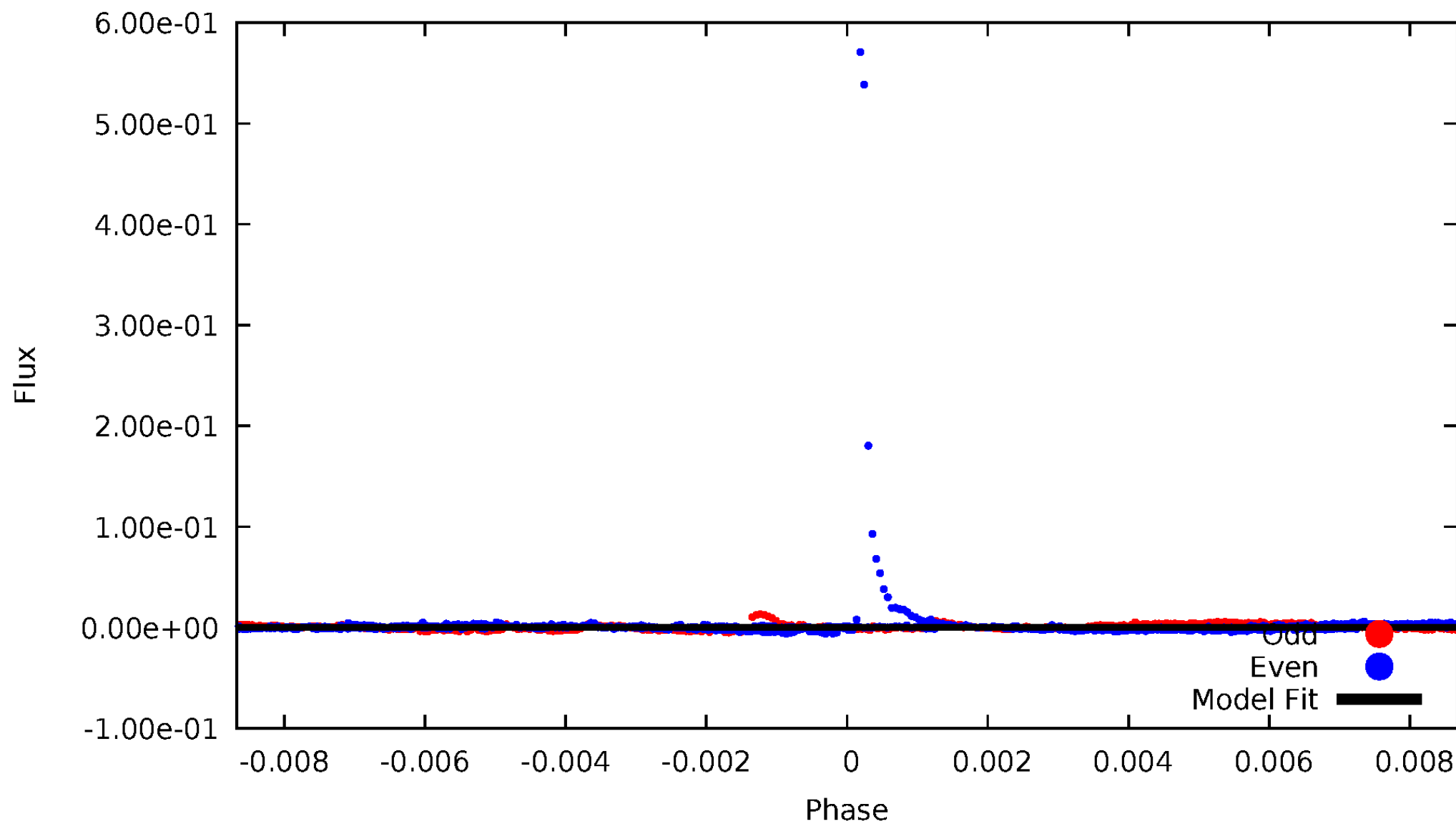


TCE 006186082-01



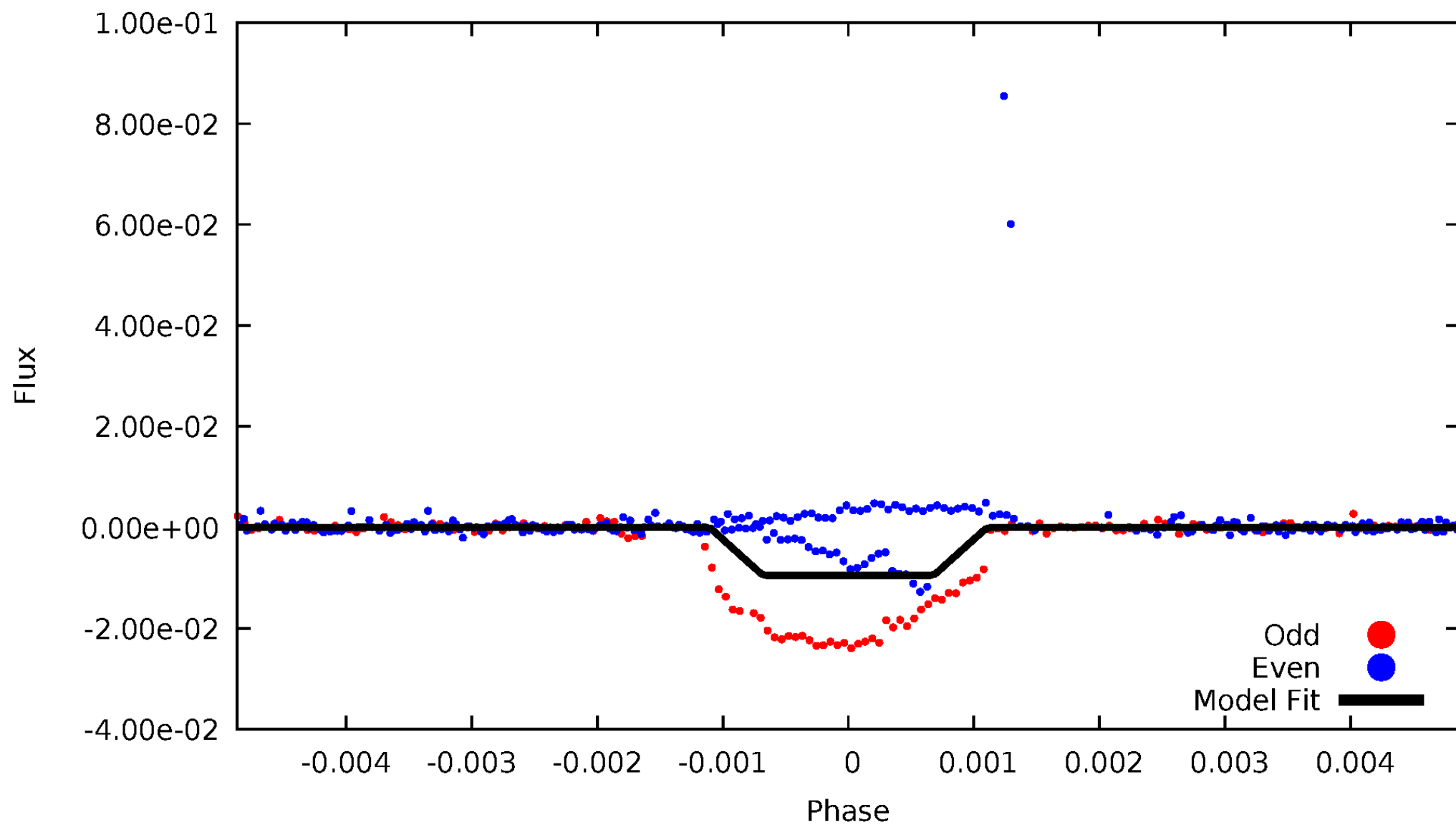
DV Odd/Even

TCE 006186082-01



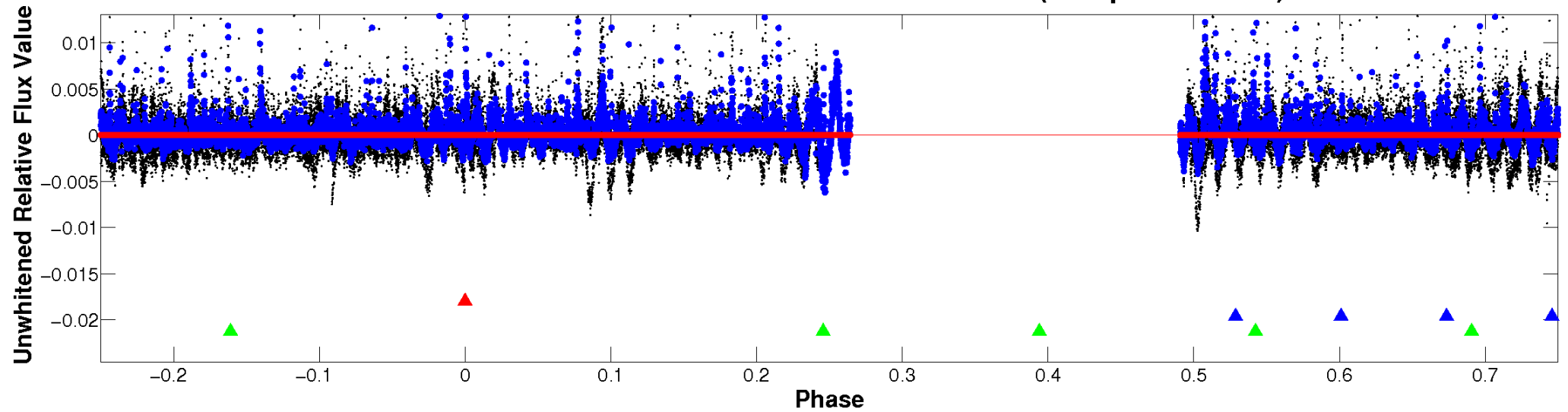
ALT Odd/Even

TCE 006186082-01

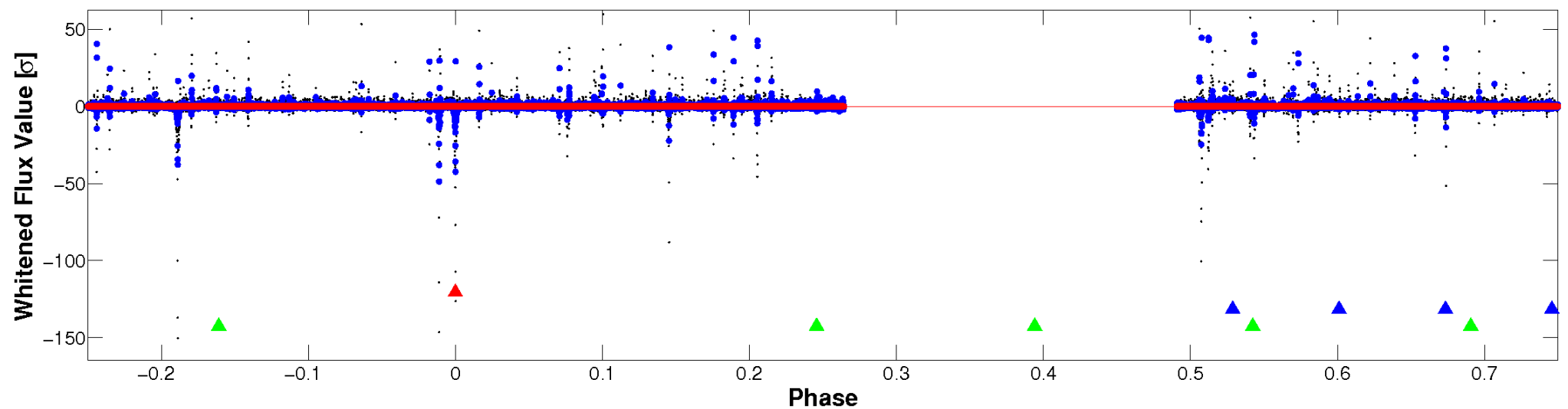


Non-Whitened Vs. Whitened Light Curve

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

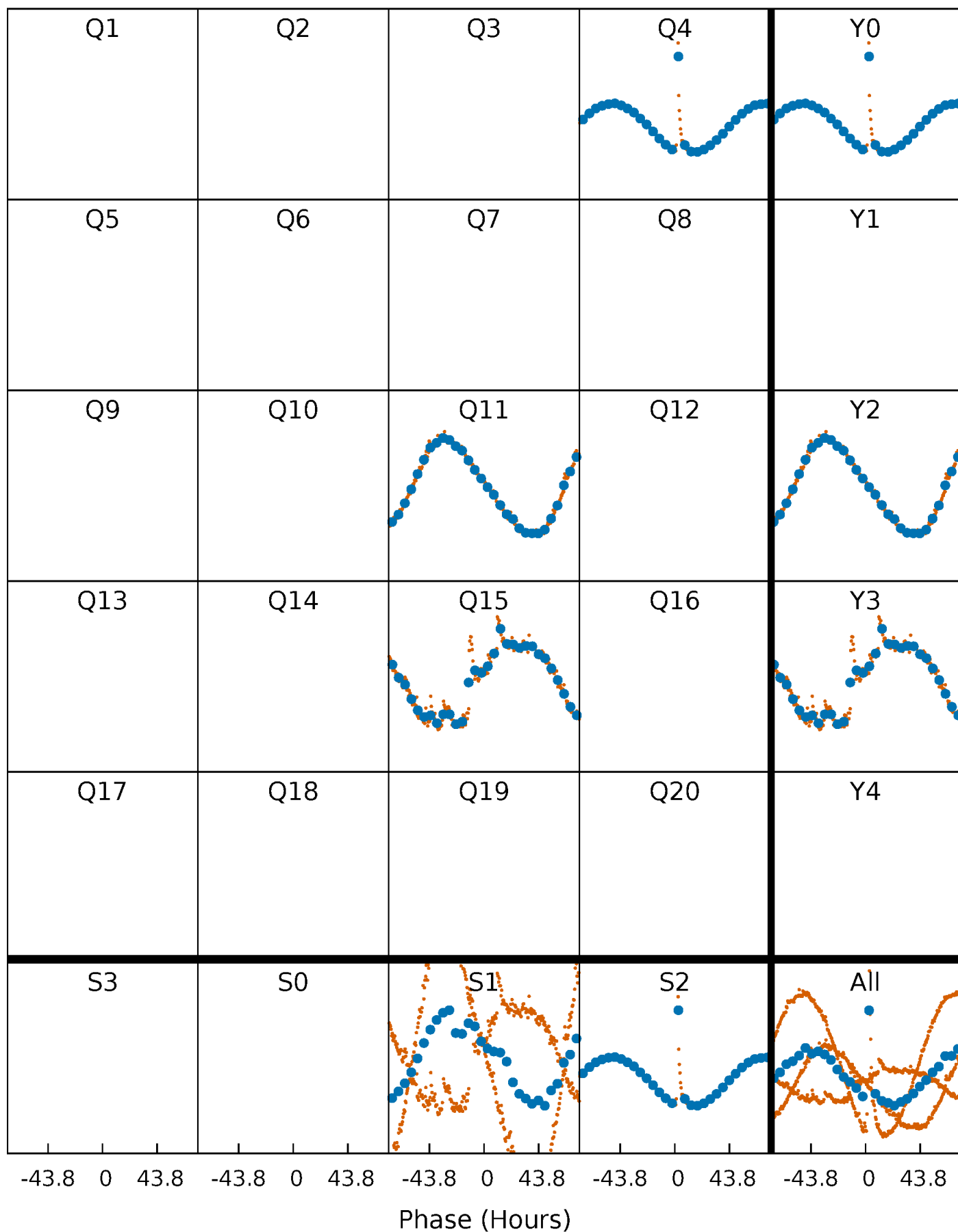


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



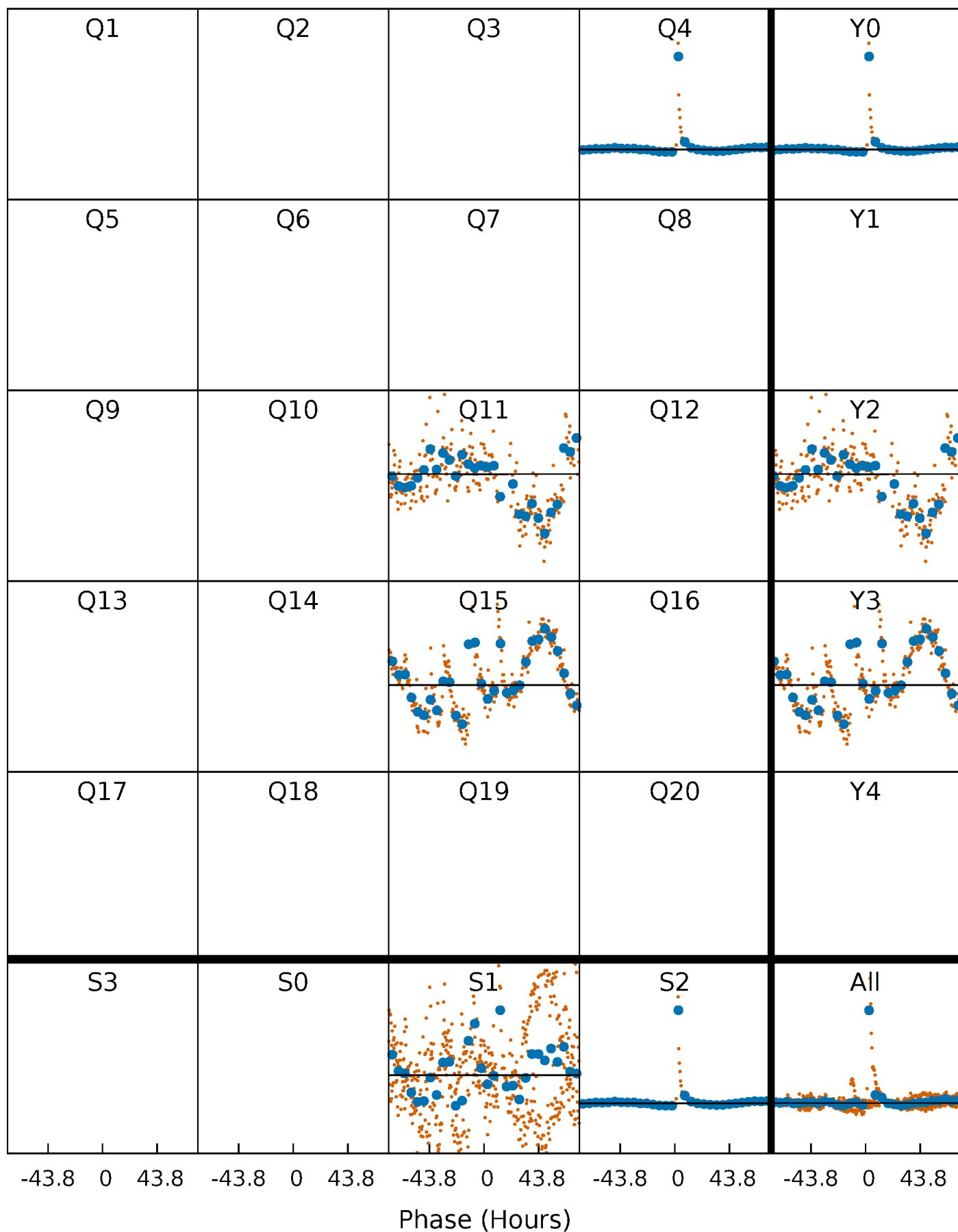
PDC Quarter-Phased Transit Curves

TCE 006186082-01 P=367.877310 Days $T_0=357.108216$ (BKJD)



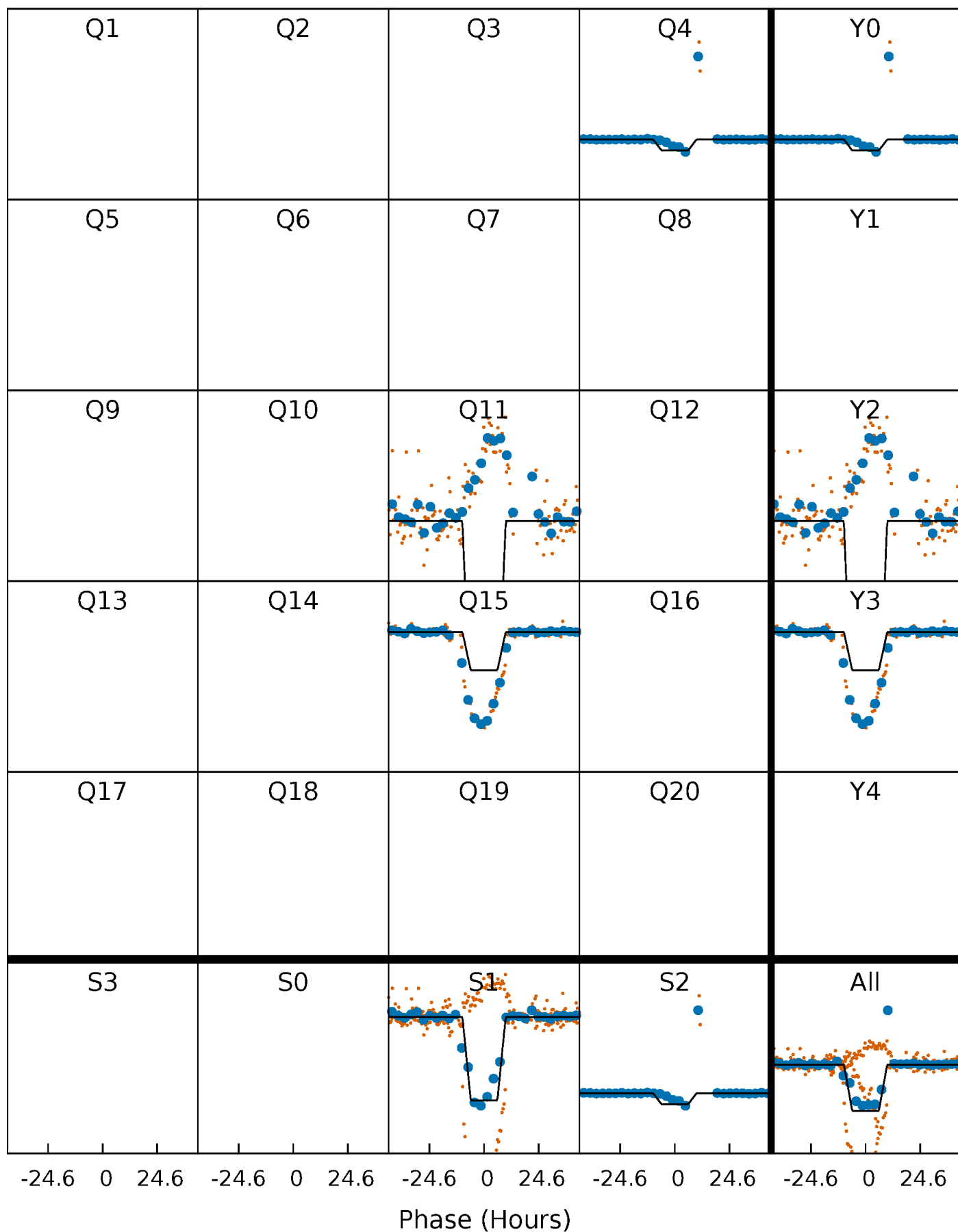
DV Quarter-Phased Transit Curves

TCE 006186082-01 P=367.877310 Days $T_0=357.108216$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

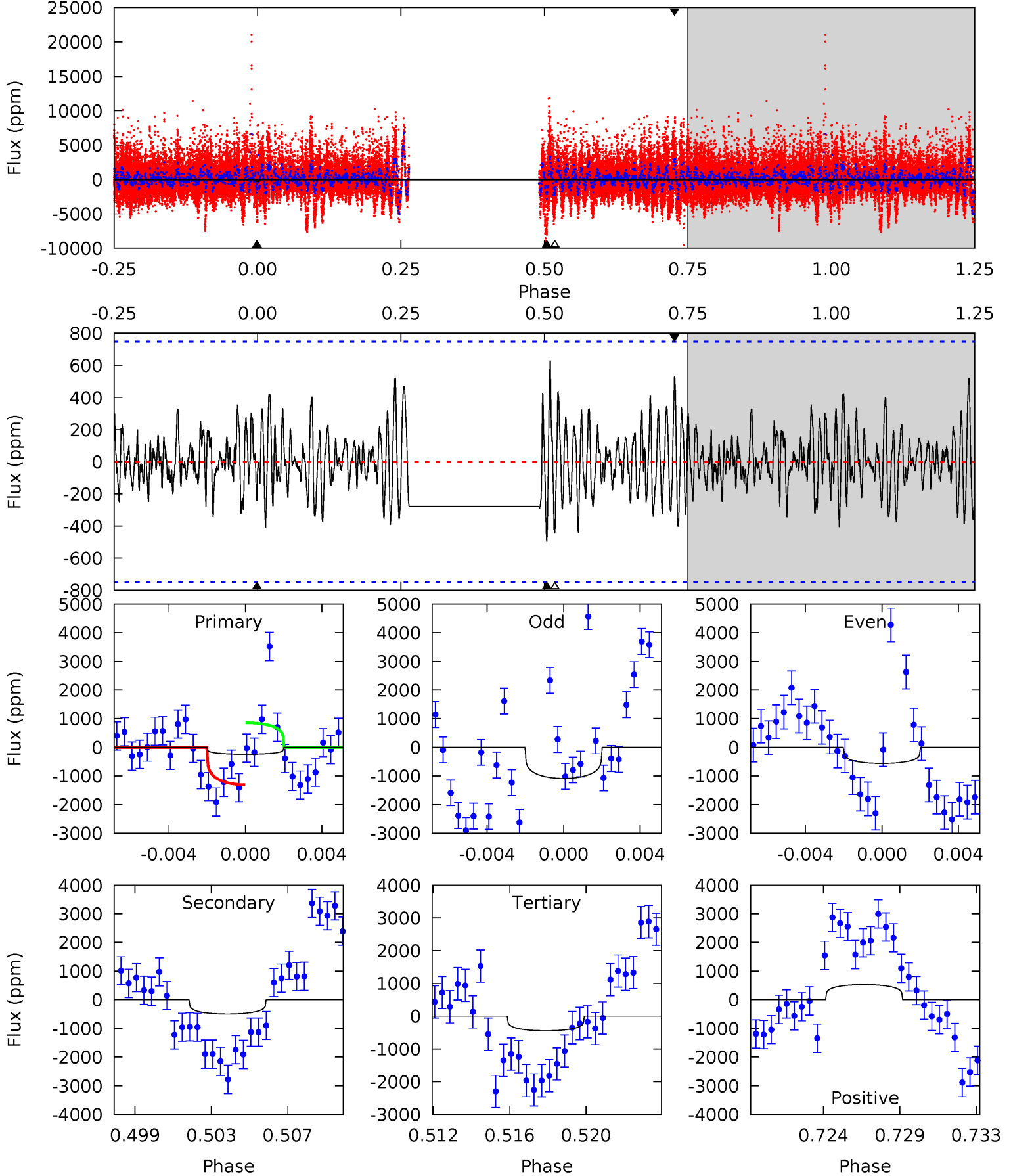
TCE 006186082-01 P=367.994793 Days $T_0=356.783609$ (BKJD)



DV Model-Shift Uniqueness Test

006186082-01, P = 367.877310 Days, E = 357.108216 Days

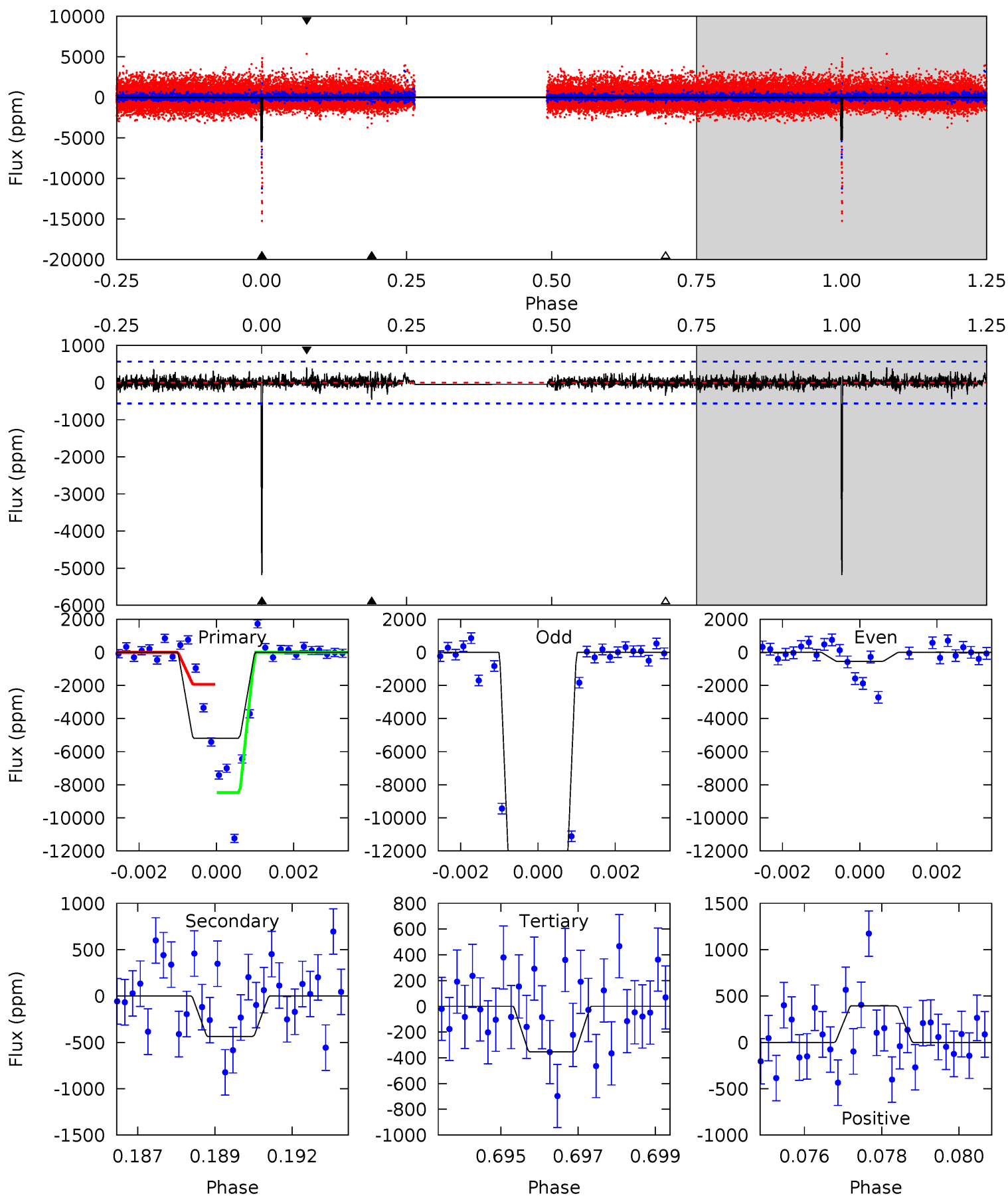
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.67	3.45	3.09	3.67	5.18	2.85	1.18	-1.42	-2.00	0.36	-0.22	1.46	8.38	0.56	1.57



Alt Model-Shift Uniqueness Test

006186082-01, P = 367.994793 Days, E = 356.783609 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
48.7	4.10	3.31	3.70	5.31	3.06	0.78	45.4	45.0	0.79	0.40	119.1	1.42	0.07	0



Stellar Parameters For KIC 006186082

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3620^{+65}_{-72}	$4.821^{+0.049}_{-0.036}$	$-0.100^{+0.100}_{-0.100}$	$0.430^{+0.034}_{-0.046}$	$0.446^{+0.036}_{-0.049}$	$7.920^{+2.088}_{-1.143}$
	+2%/-2%	+1%/-1%	+100%/-100%	+8%/-11%	+8%/-11%	+26%/-14%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006186082-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-497 ± 144	$30.82^{+30.94}_{-23.08}$	167^{+6}_{-6}	1635^{+502}_{-183}	172^{+2577}_{-133}
Alt.	-436 ± 106	$28.08^{+34.04}_{-19.97}$	167^{+6}_{-6}	1645^{+443}_{-207}	174^{+1854}_{-139}

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

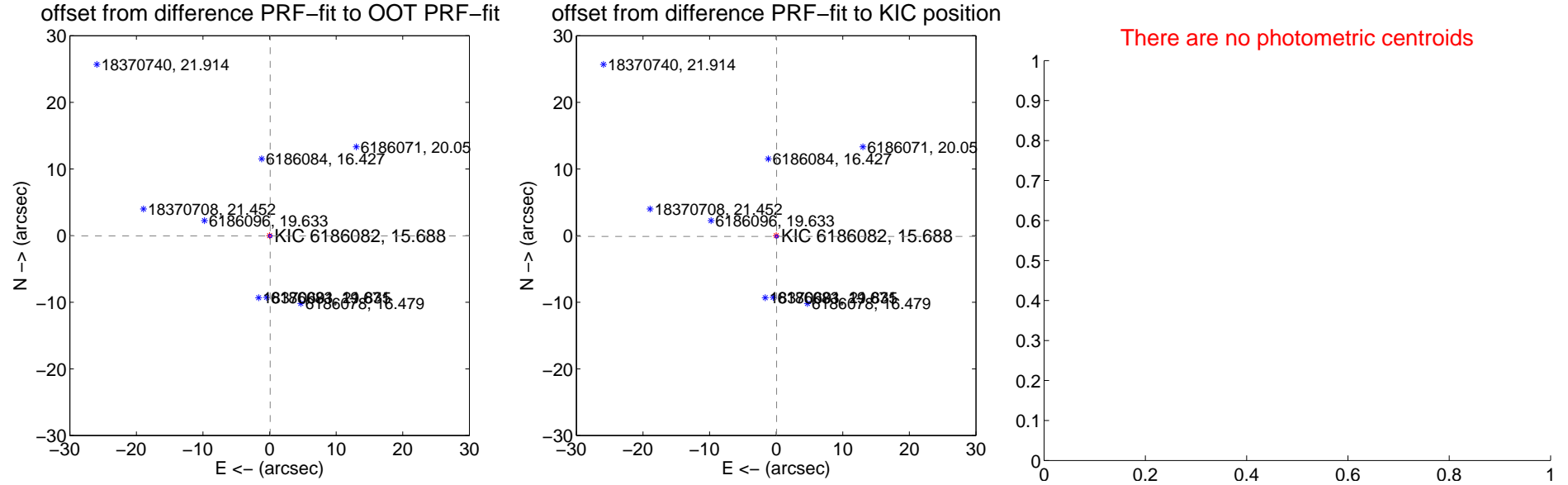
DV Centroid Data

Supplemental centroid analysis for 006186082-01. Kepler magnitude: 15.69. Transit SNR 0.01

There are 1 quarters with good PRF difference image offsets

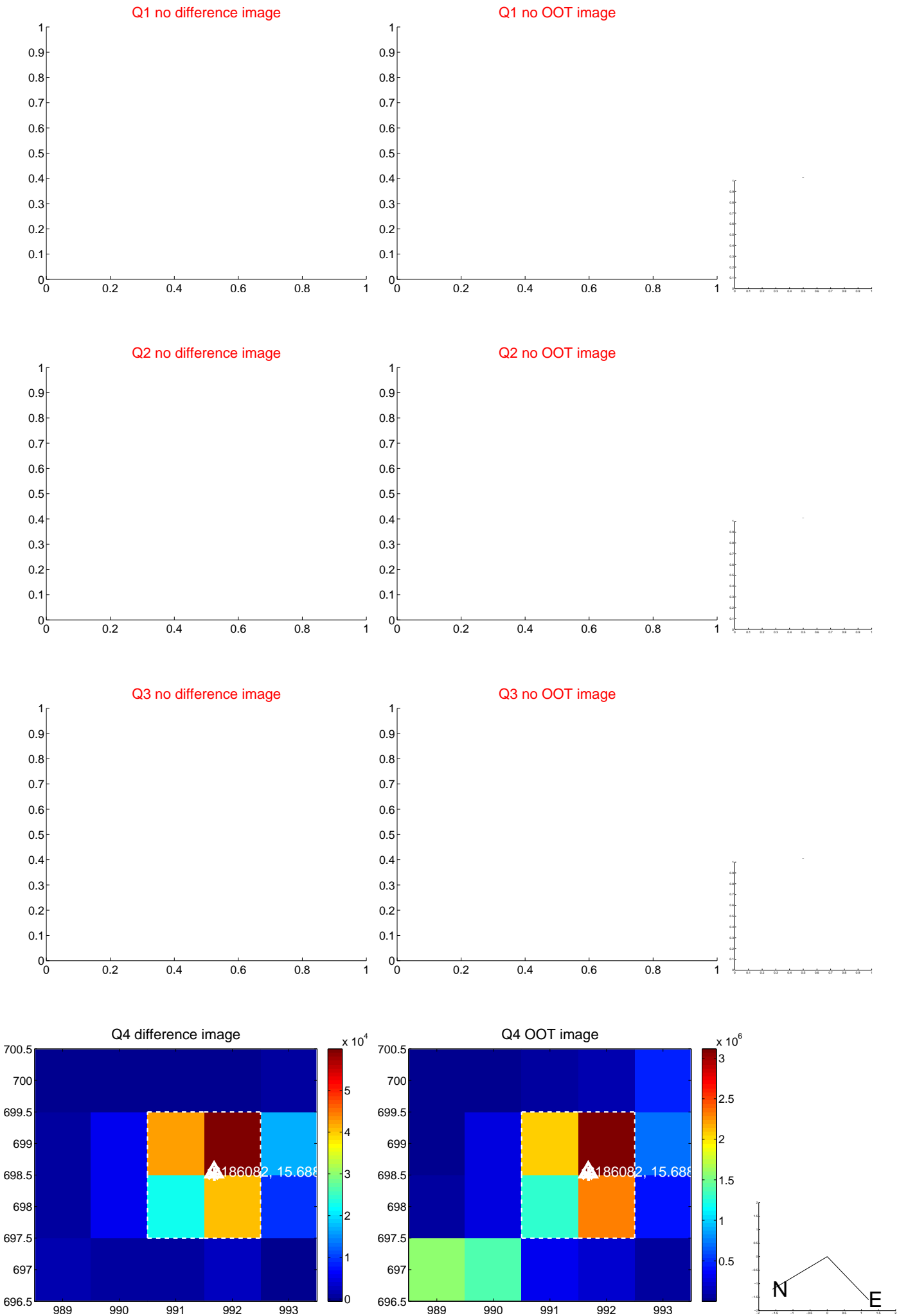
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.103 ± 0.087	1.18	-0.089 ± 0.100	-0.053 ± 0.068
PRF-fit source offset from KIC position	0.139 ± 0.079	1.78	-0.063 ± 0.070	-0.125 ± 0.075
photometric centroid source offset	—	—	—	—



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.



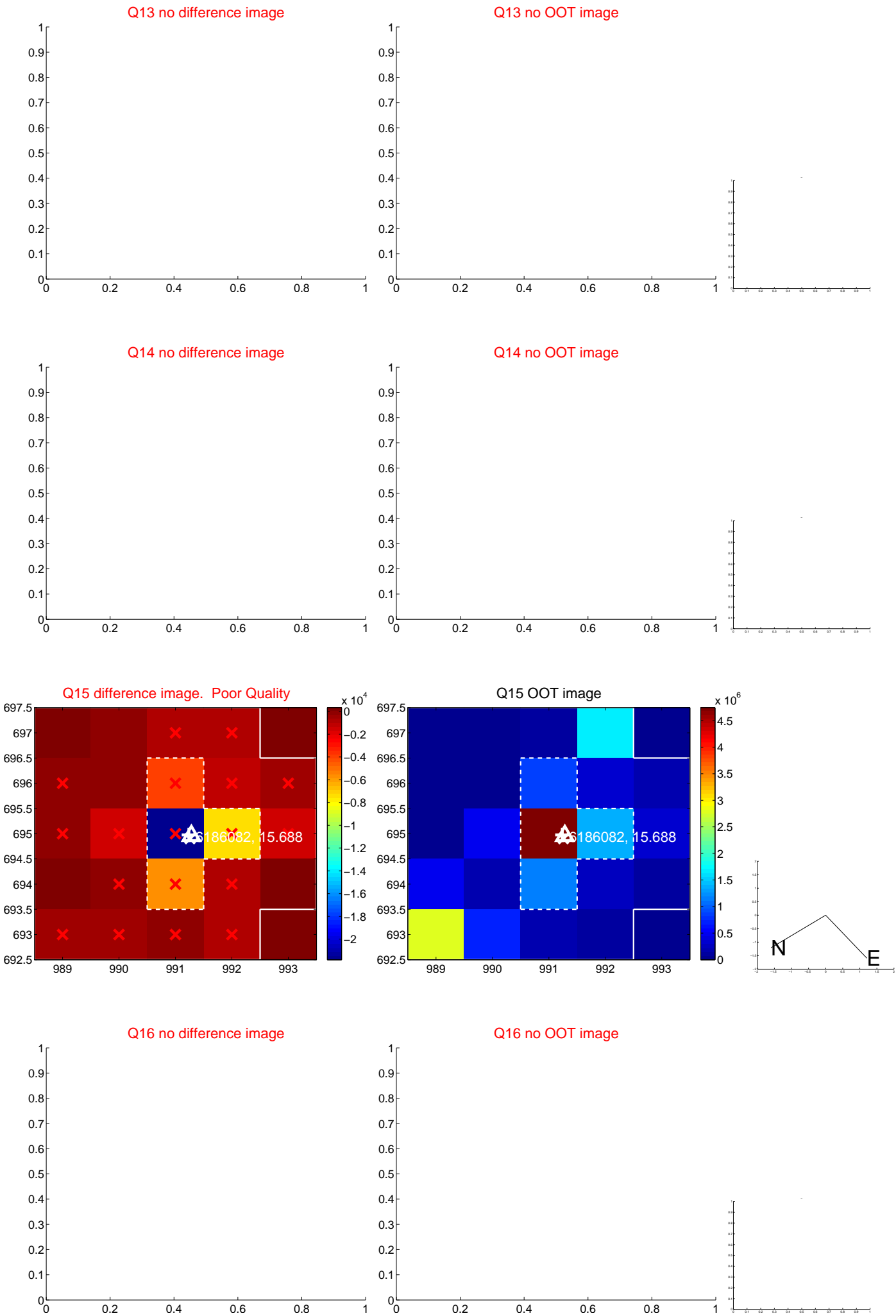
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



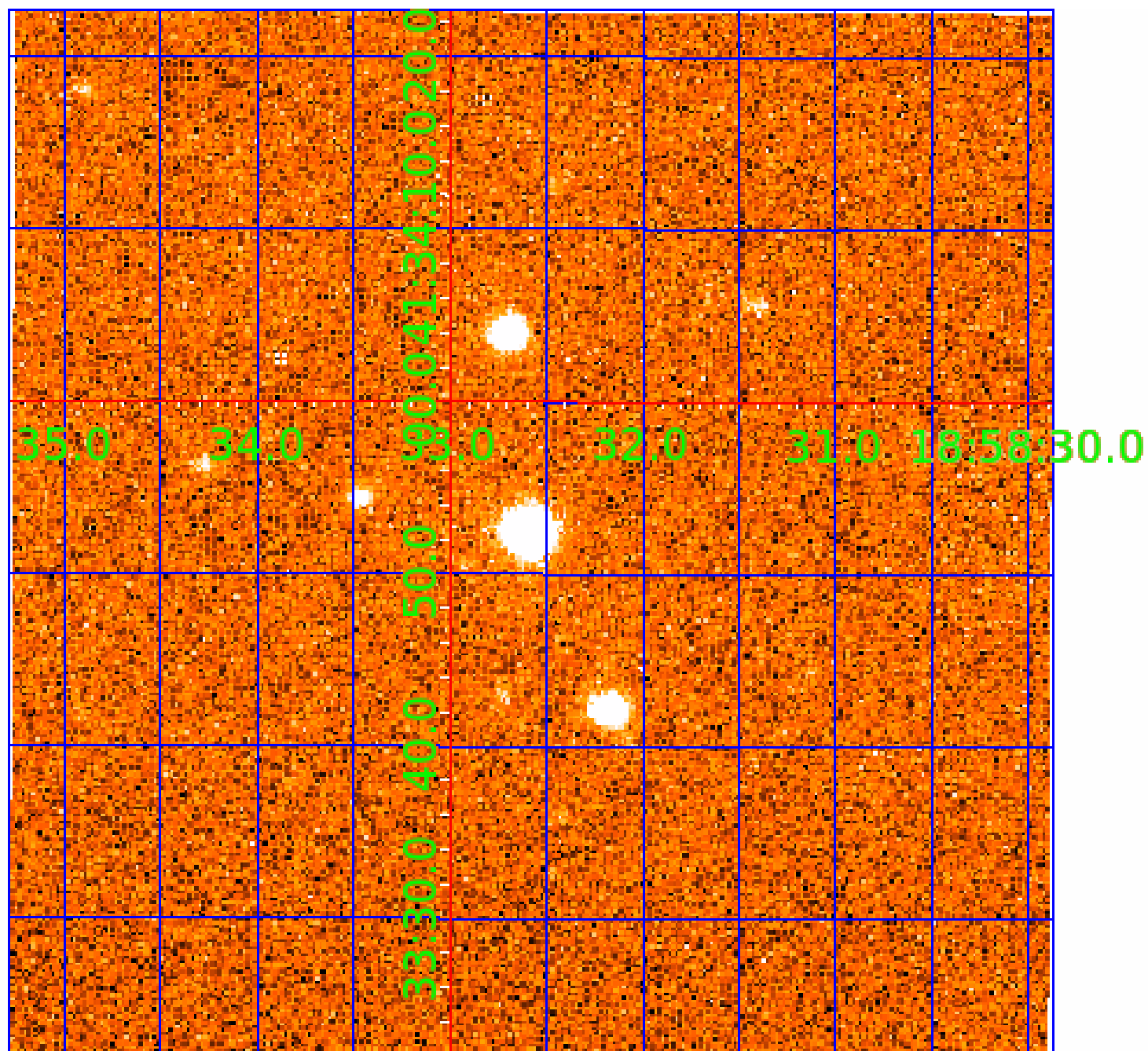
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folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 006186082

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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006186082-03	OBS	No	313.313342	297.894940	2116.9	2.978	11.1	7.2	0.43	3620	2.03	0.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006186082-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006186082-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS

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

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

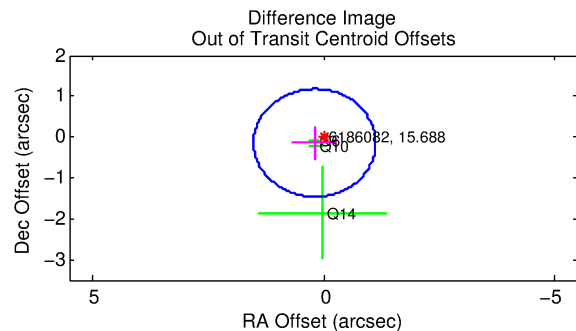
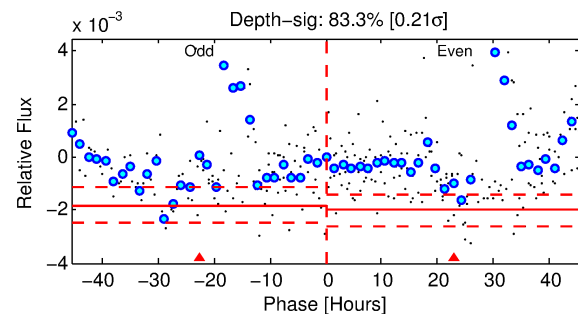
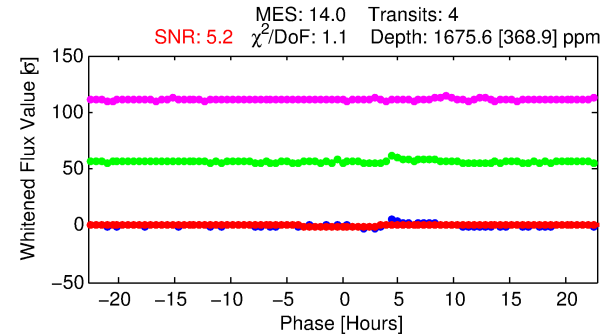
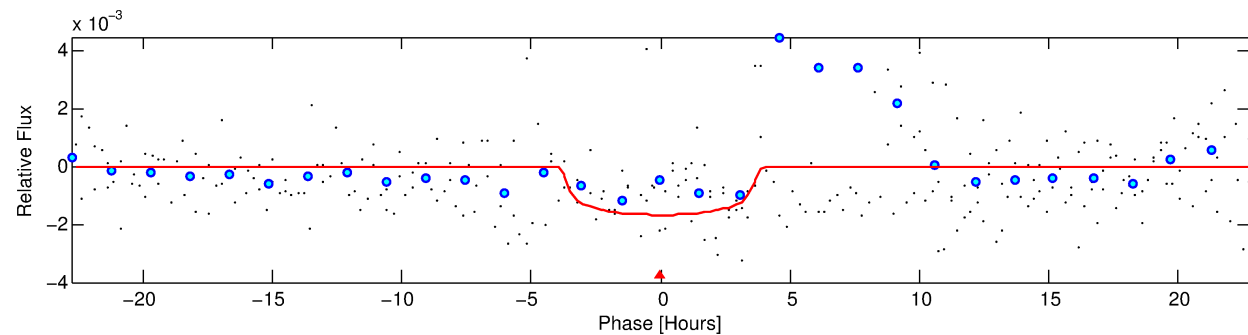
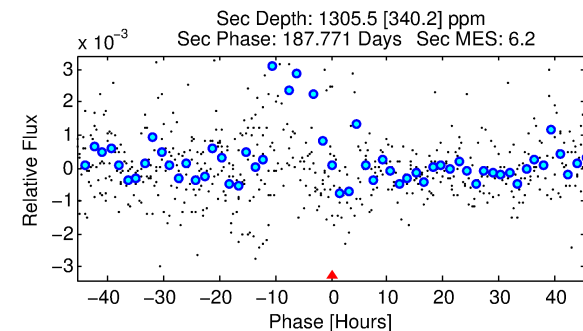
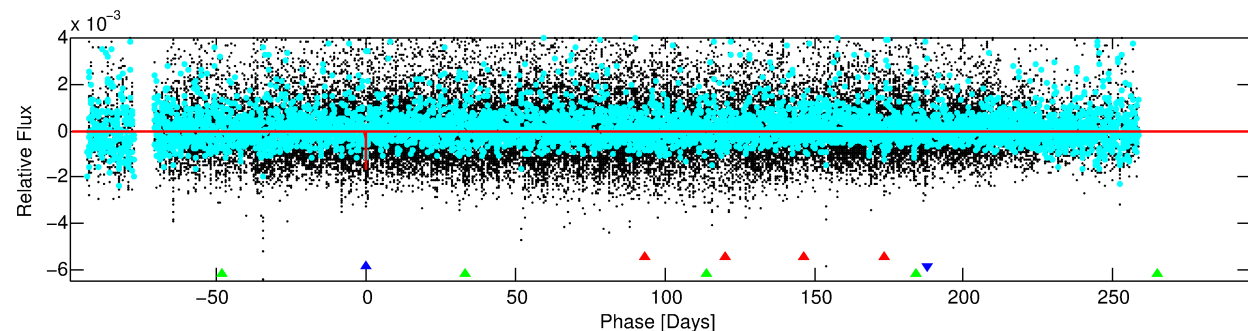
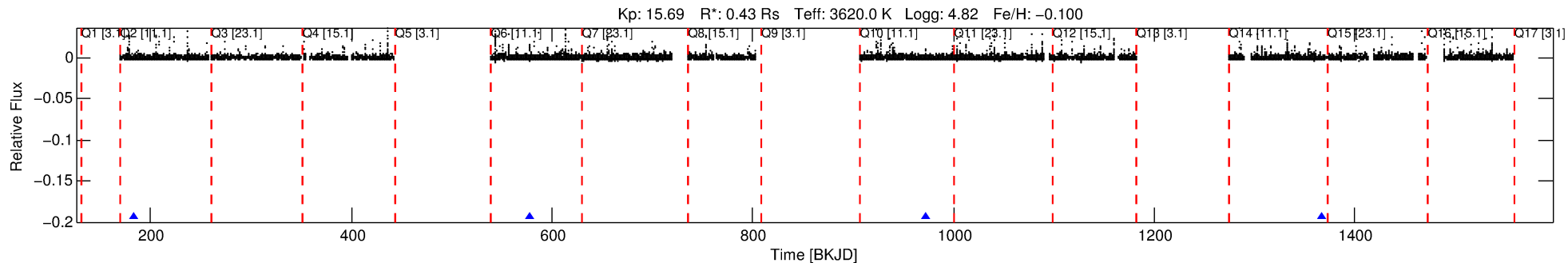
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006186082-02

No Significant Match Found

DV One-Page Summary

KIC: 6186082 Candidate: 2 of 3 Period: 394.501 d



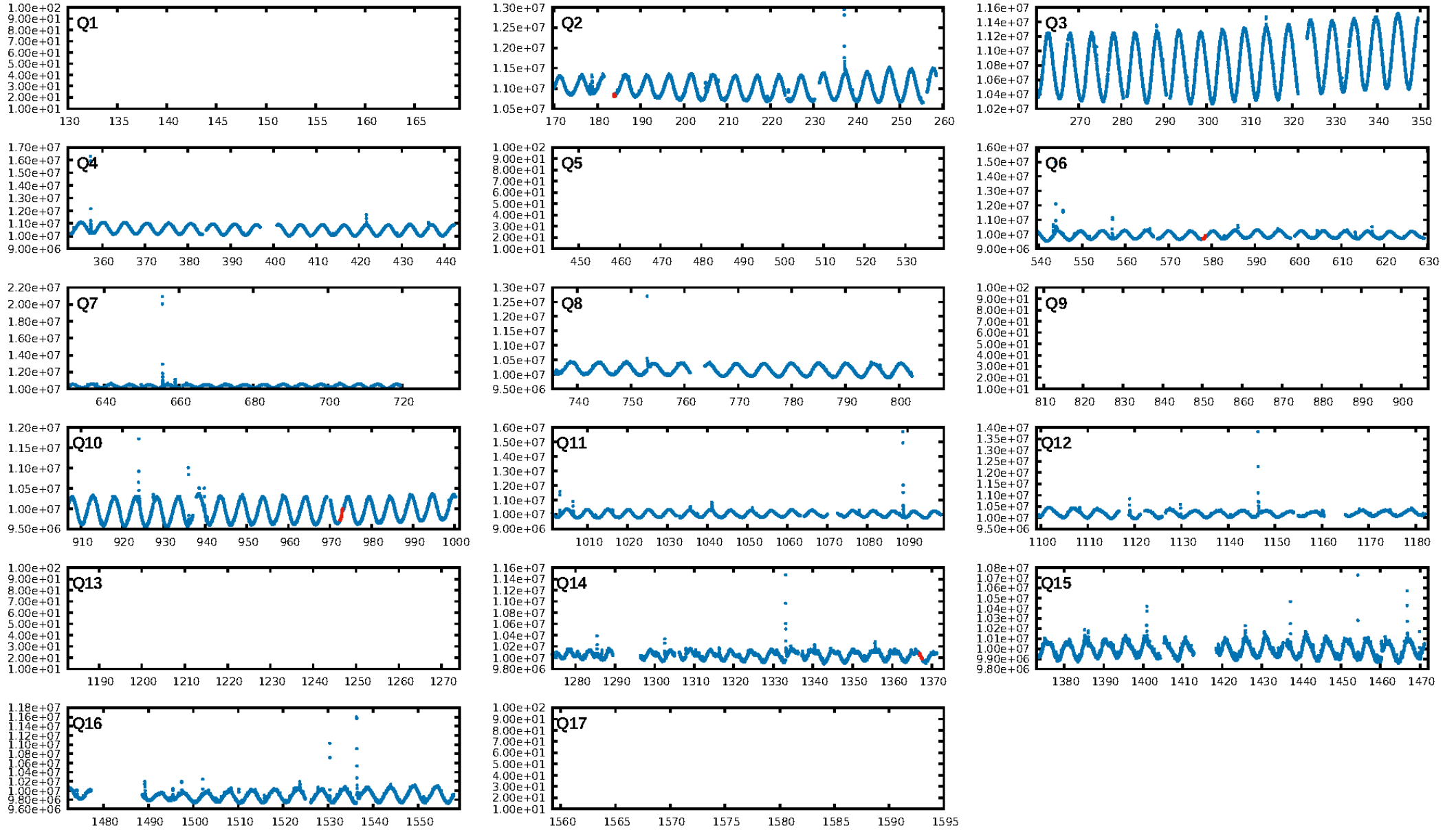
DV Fit Results:

Period = 394.50117 [0.00949] d
Epoch = 183.7442 [0.0195] BKJD
Rp/R* = 0.0371 [0.0414]
a/R* = 411.64 [1993.55]
b = 0.01 [443.29]
Seff = 0.04 [0.01]
Teq = 117 [4] K
Rp = 1.74 [1.95] Re
a = 0.8048 [0.0649] AU
Ag = 153906.04 [346888.99] [0.44σ]
Teffp = 3575 [2013] K [1.72σ]

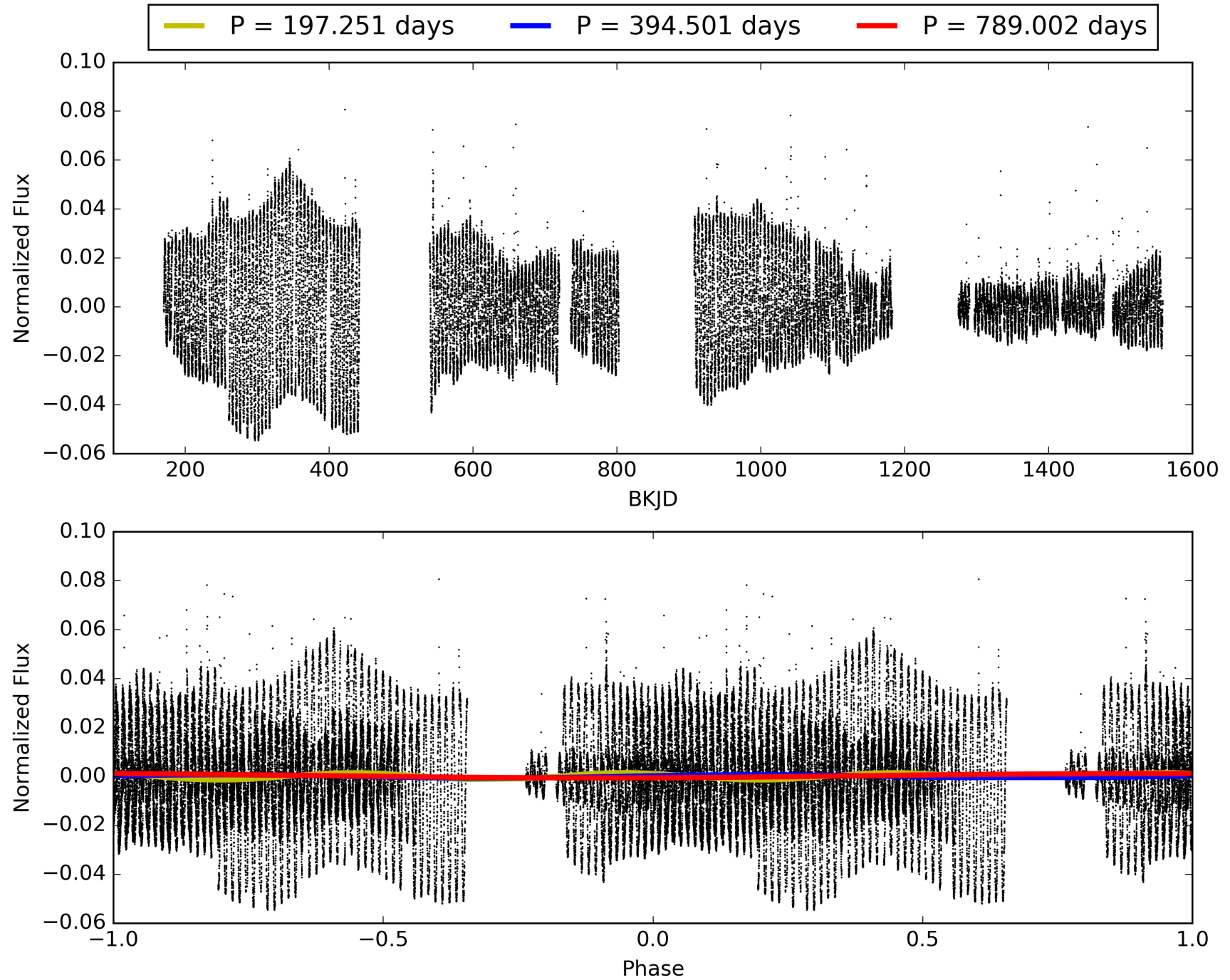
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [16.37σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 9.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.59e-12
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.1392
Centroid-sig: 2.2%
Centroid-so: 1.650 arcsec [1.18σ]
OotOffset-rm: 0.240 arcsec [0.55σ]
KicOffset-rm: 0.109 arcsec [0.27σ]
OotOffset-st: 3/0/0/0 [3]
KicOffset-st: 3/0/0/0 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

TCE 006186082-02, PDC Light Curves

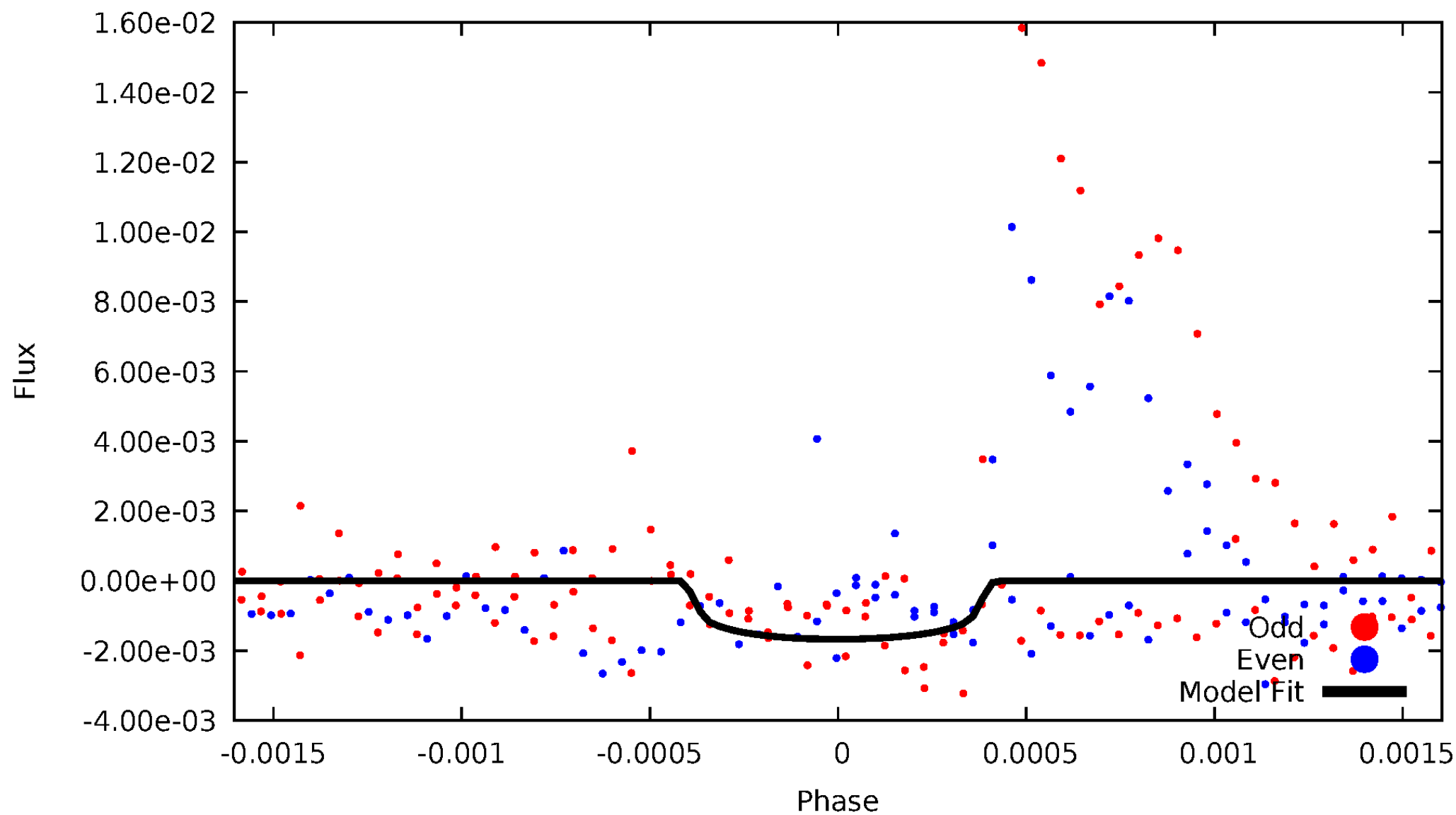


TCE 006186082-02



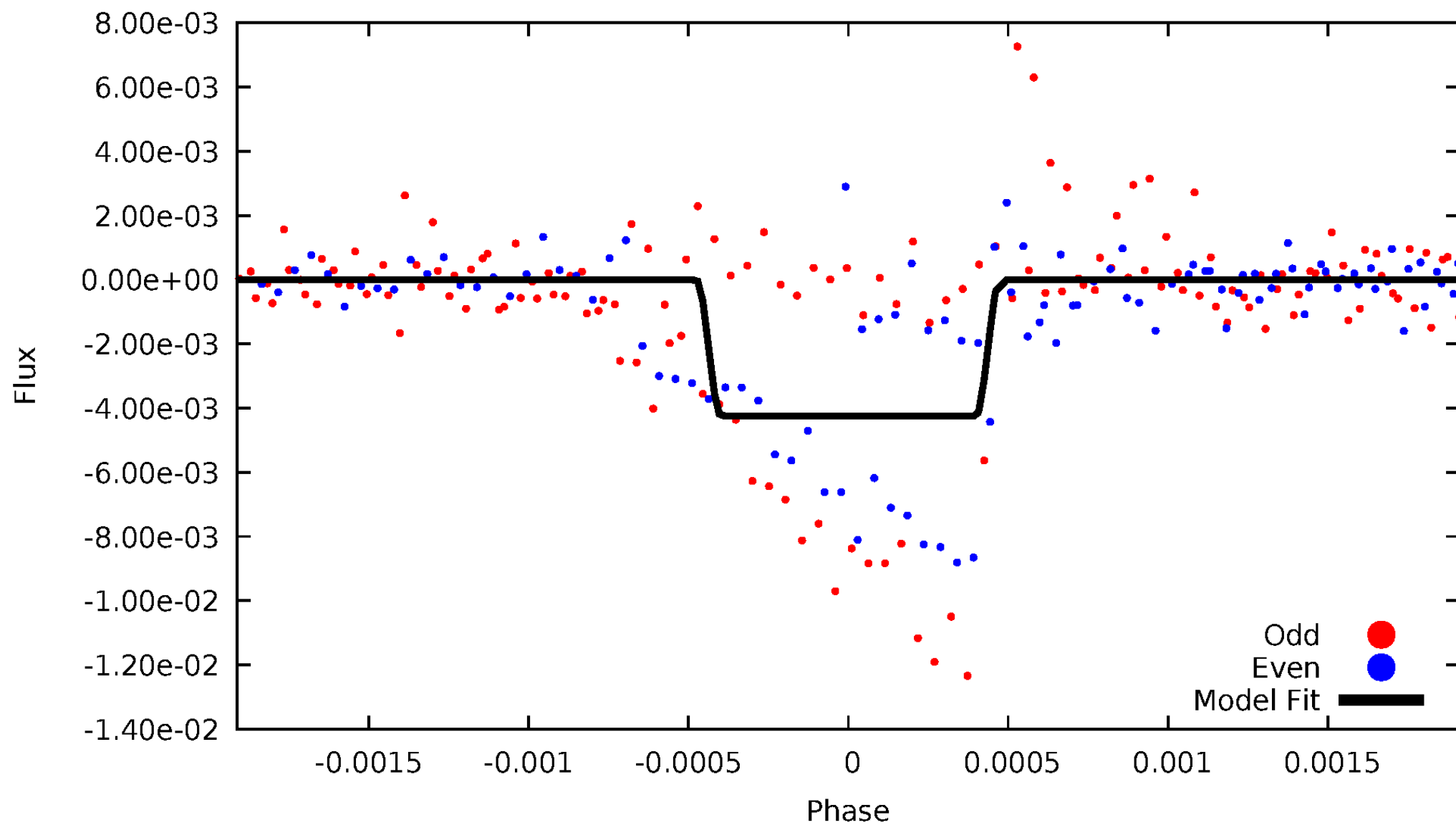
DV Odd/Even

TCE 006186082-02



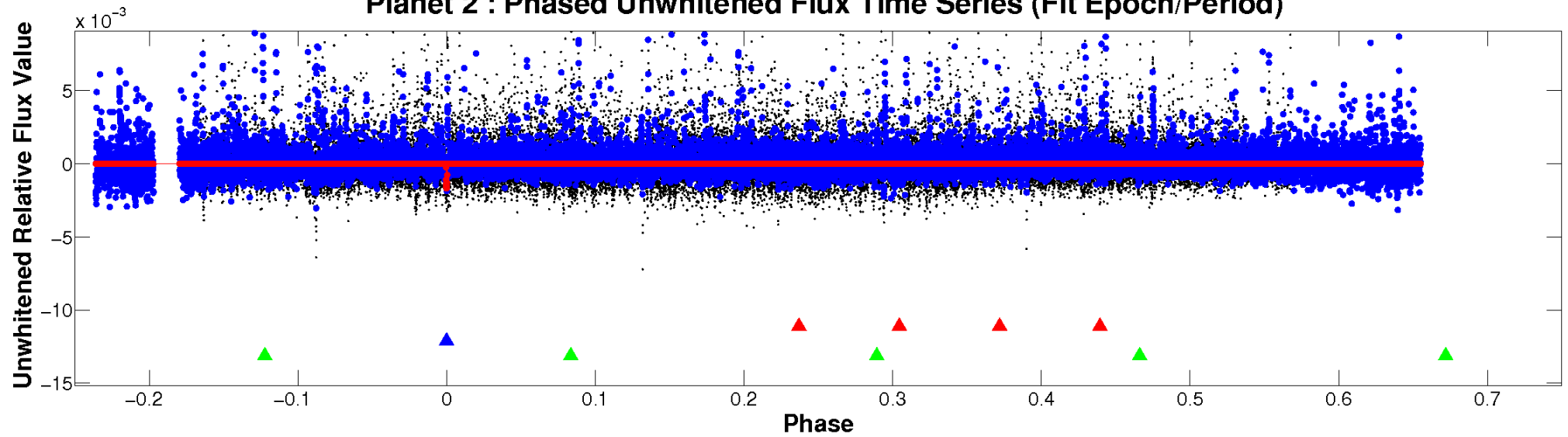
ALT Odd/Even

TCE 006186082-02

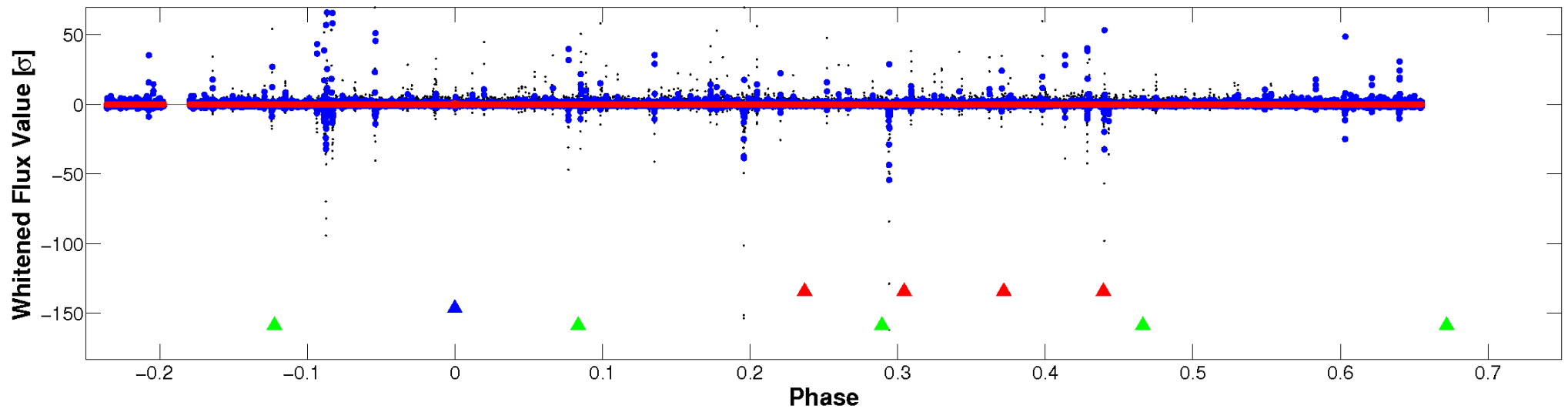


Non-Whitened Vs. Whitened Light Curve

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

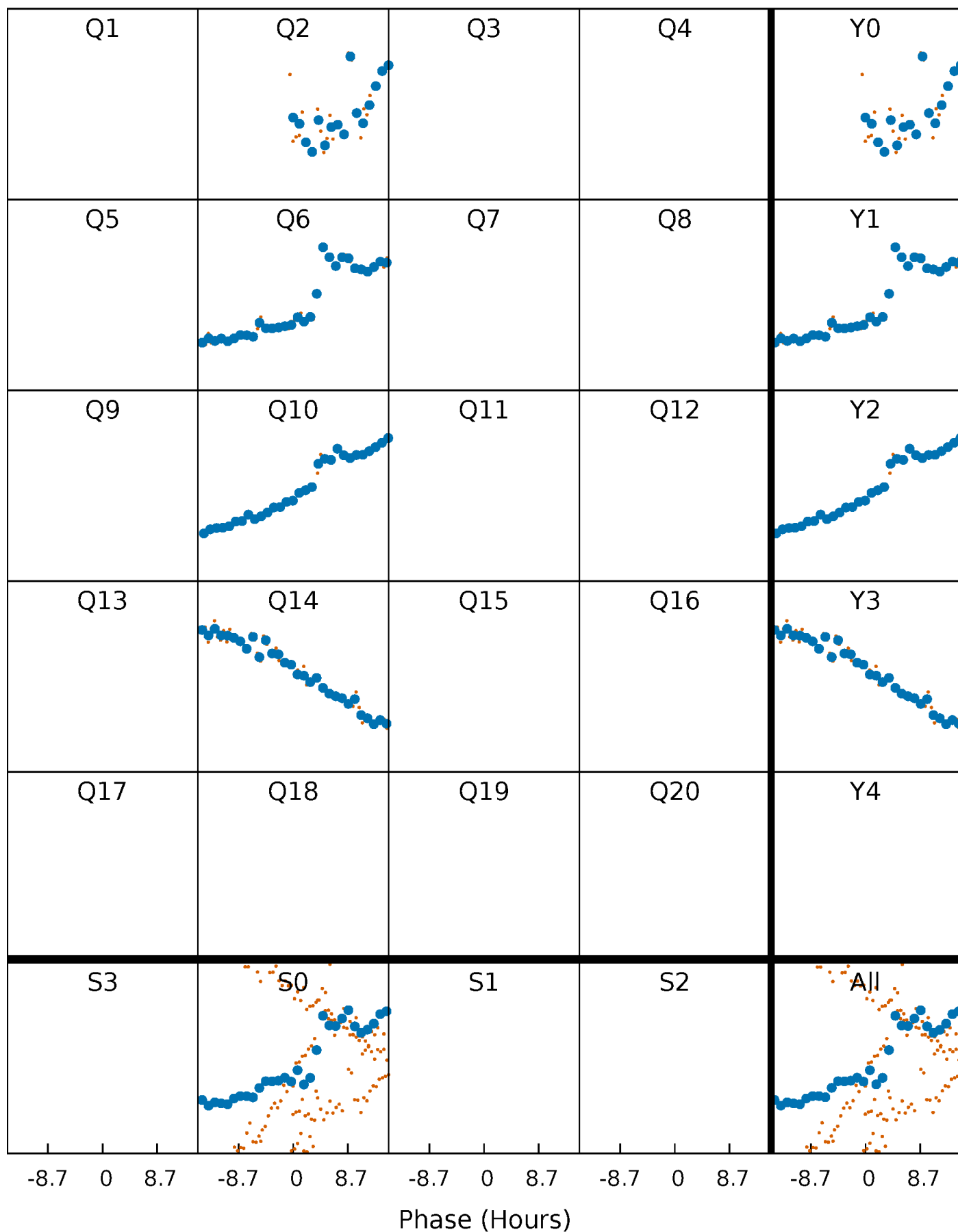


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



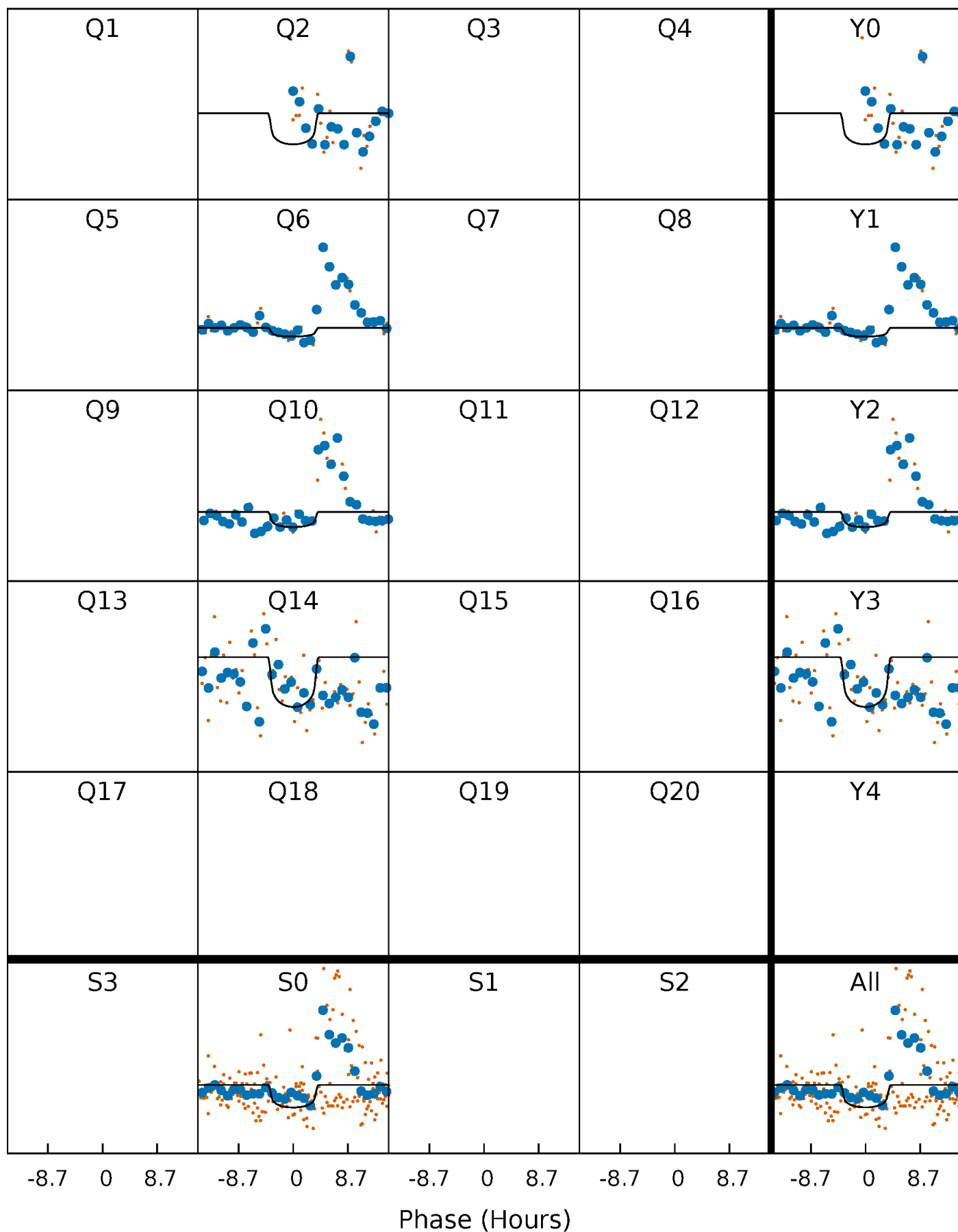
PDC Quarter-Phased Transit Curves

TCE 006186082-02 P=394.501169 Days $T_0=183.744213$ (BKJD)



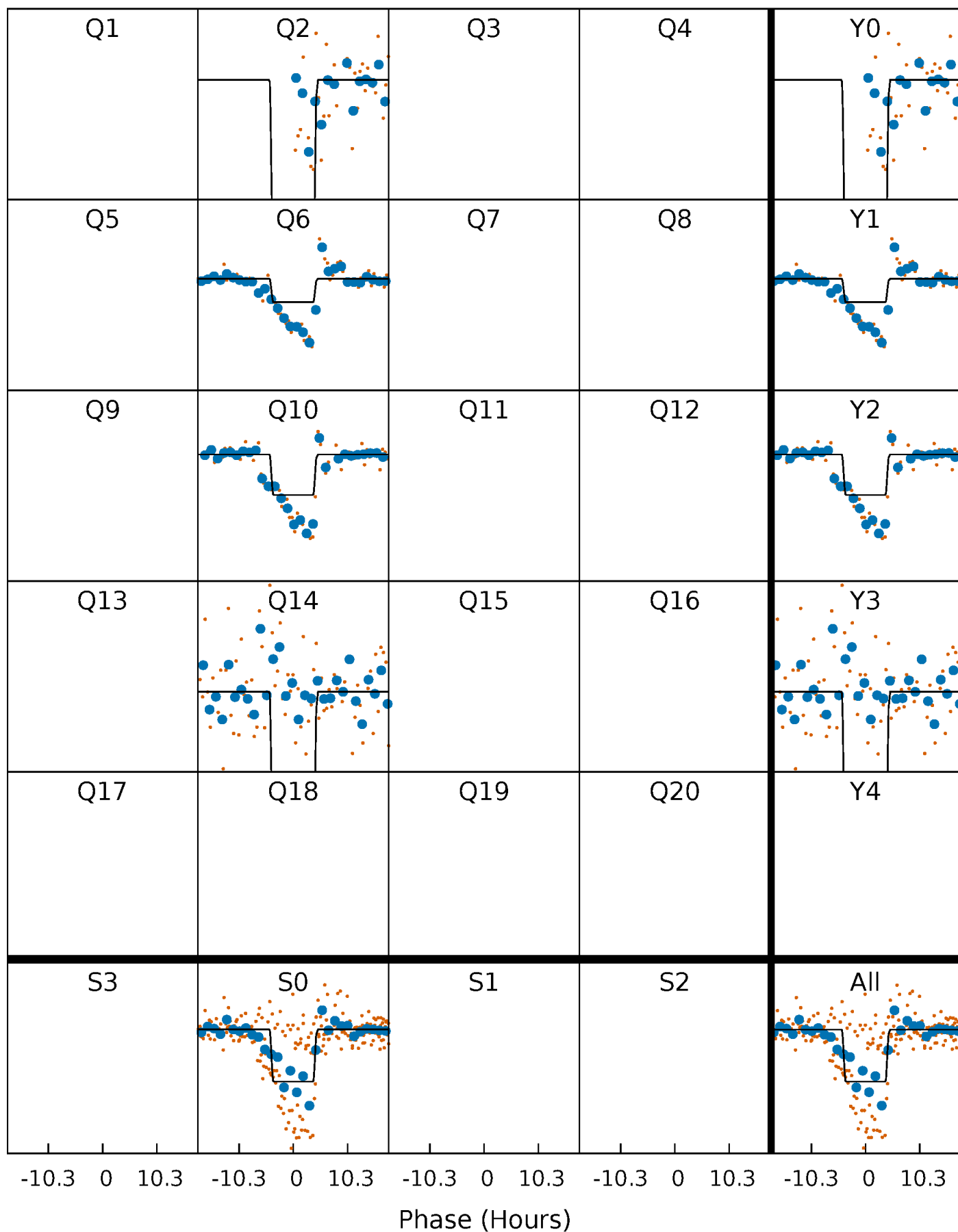
DV Quarter-Phased Transit Curves

TCE 006186082-02 P=394.501169 Days $T_0=183.744213$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

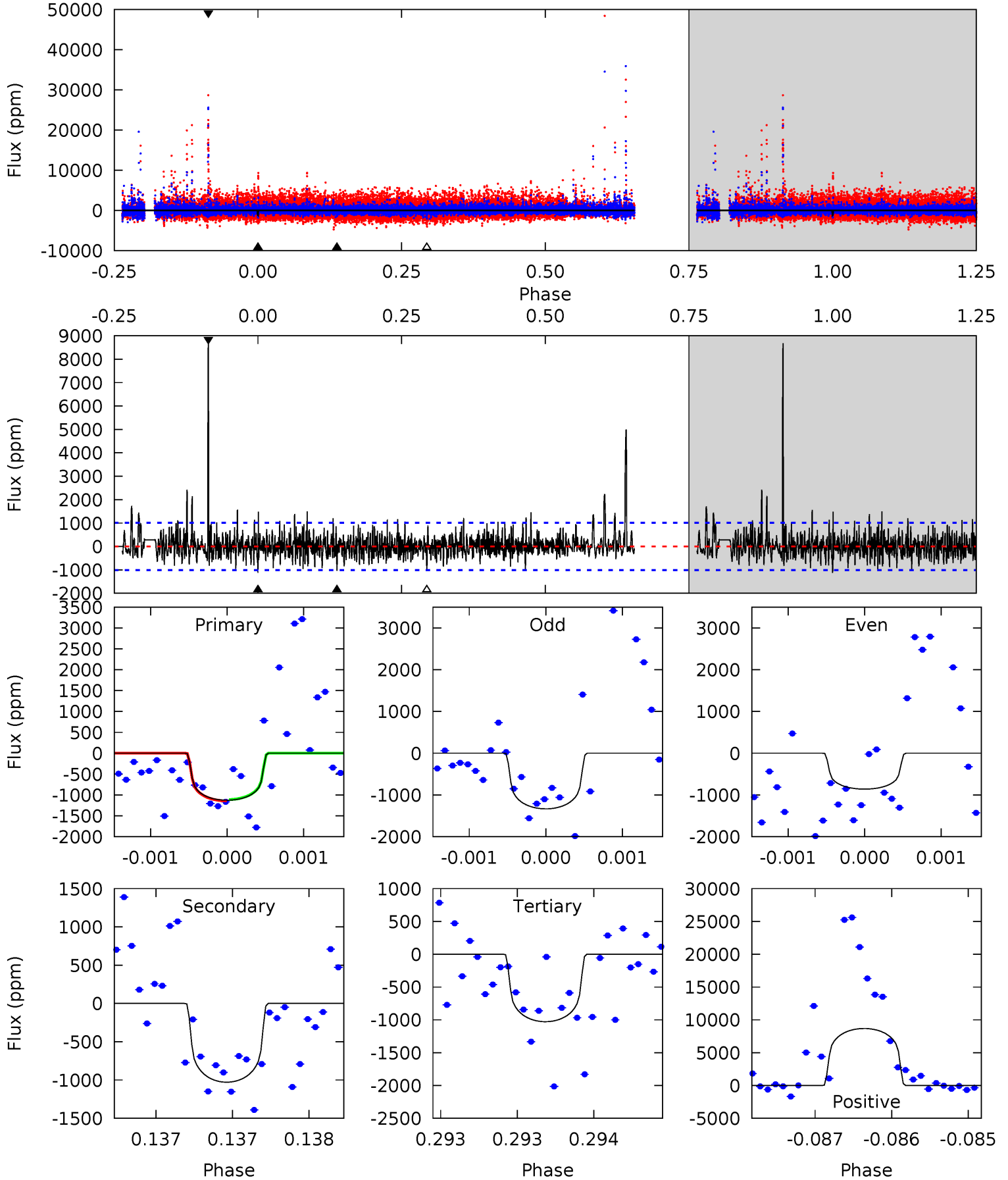
TCE 006186082-02 P=394.503932 Days $T_0=183.725583$ (BKJD)



DV Model-Shift Uniqueness Test

006186082-02, P = 394.501169 Days, E = 183.744213 Days

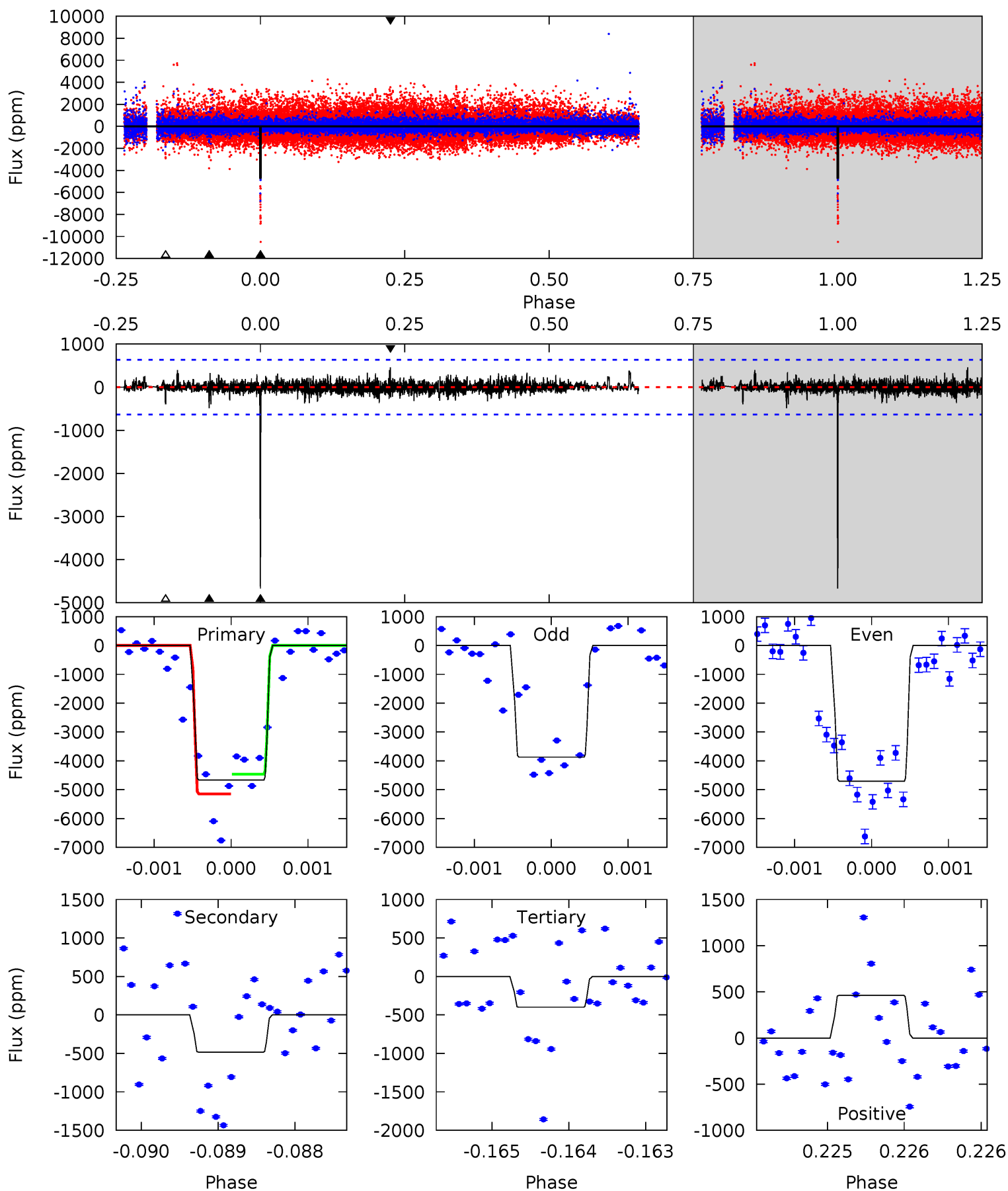
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.13	5.60	5.60	47.3	5.49	3.35	2.53	0.54	-41.1	0.00	-41.7	0.79	0.78	0.89	0.08



Alt Model-Shift Uniqueness Test

006186082-02, P = 394.503932 Days, E = 183.725583 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
40.1	4.16	3.44	3.96	5.47	3.31	0.74	36.7	36.2	0.72	0.19	3.36	1.07	0.09	2.80



Stellar Parameters For KIC 006186082

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3620^{+65}_{-72}	$4.821^{+0.049}_{-0.036}$	$-0.100^{+0.100}_{-0.100}$	$0.430^{+0.034}_{-0.046}$	$0.446^{+0.036}_{-0.049}$	$7.920^{+2.088}_{-1.143}$
	+2%/-2%	+1%/-1%	+100%/-100%	+8%/-11%	+8%/-11%	+26%/-14%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006186082-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1028 ± 184	$2.15^{+1.80}_{-1.40}$	162^{+4}_{-5}	3219^{+1383}_{-504}	$79866^{+540304}_{-56842}$
Alt.	-484 ± 116	$3.18^{+1.67}_{-1.72}$	163^{+4}_{-5}	2632^{+617}_{-288}	17757^{+61807}_{-11024}

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

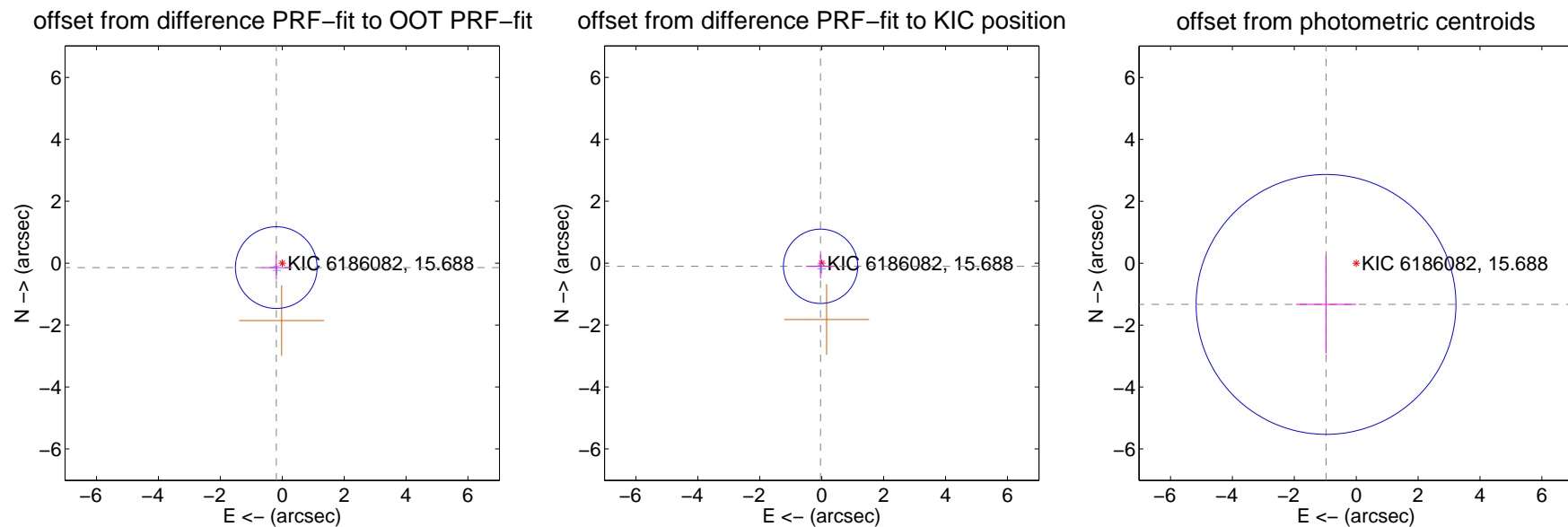
DV Centroid Data

Supplemental centroid analysis for 006186082-02. Kepler magnitude: 15.69. Transit SNR 5.22

There are 2 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.240 ± 0.440	0.55	0.192 ± 0.465	-0.144 ± 0.391
PRF-fit source offset from KIC position	0.109 ± 0.400	0.27	0.037 ± 0.465	-0.102 ± 0.391
photometric centroid source offset	1.65 ± 1.40	1.18	0.97 ± 0.97	-1.33 ± 1.58

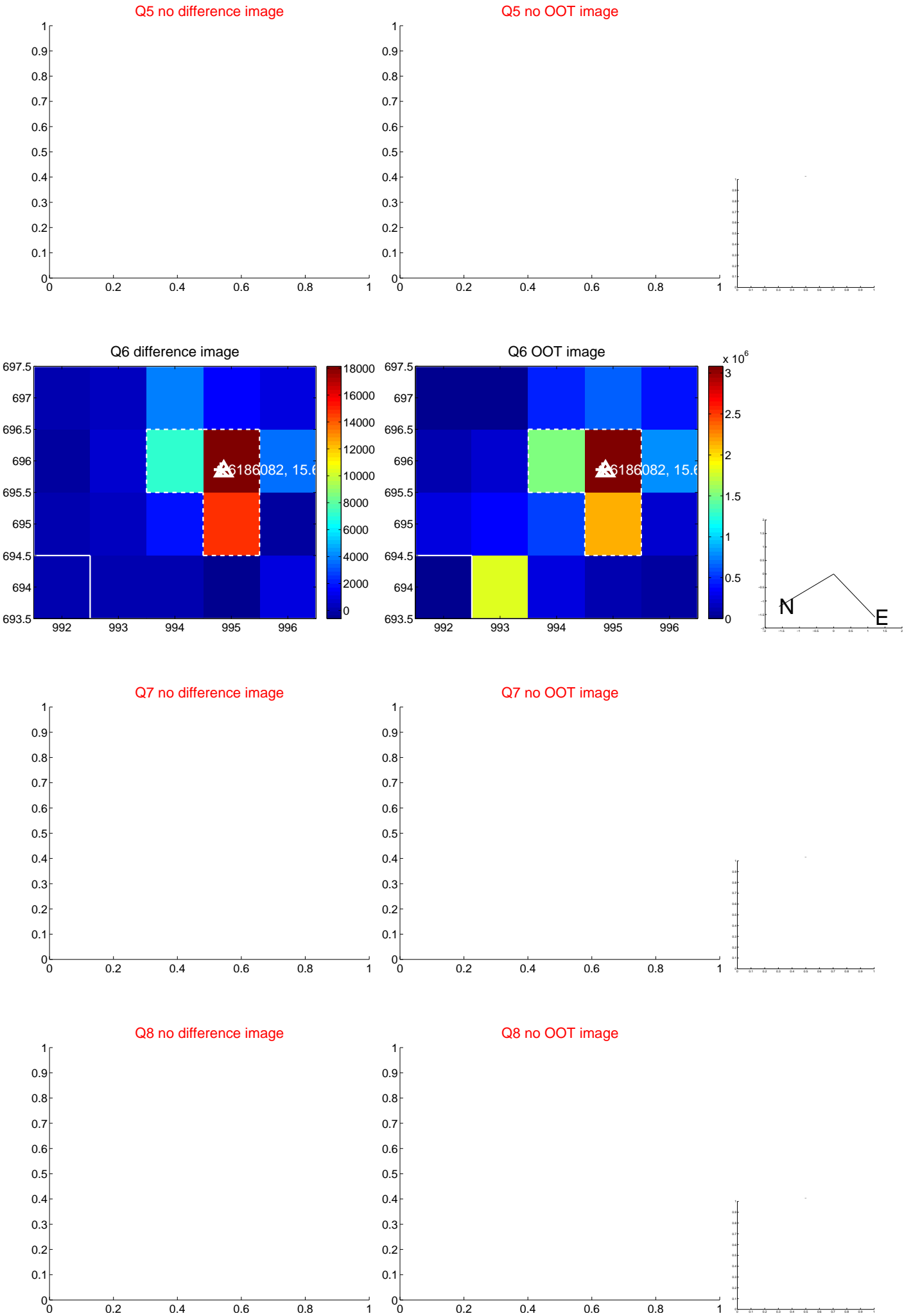


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

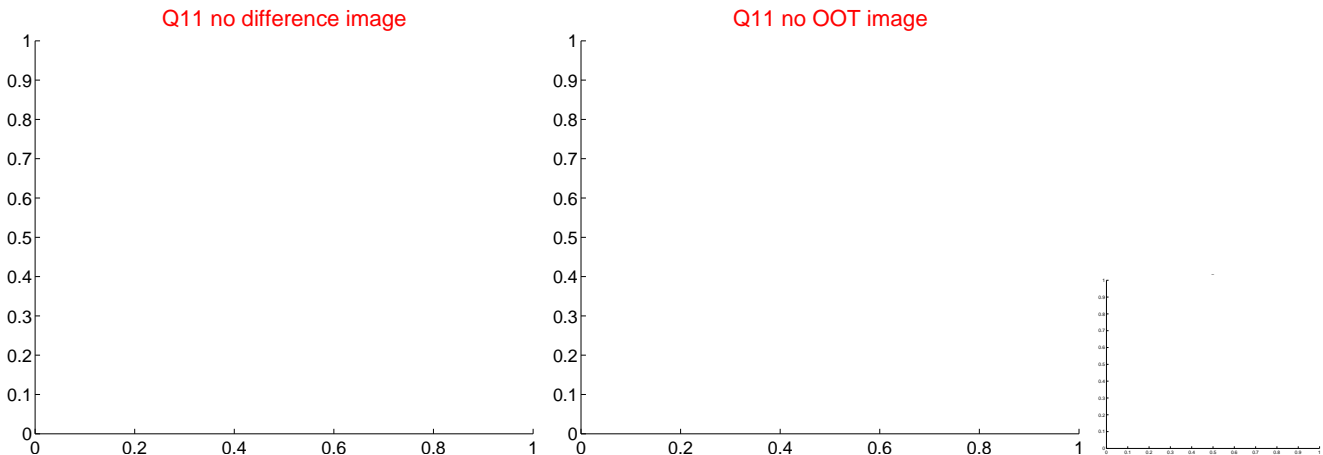
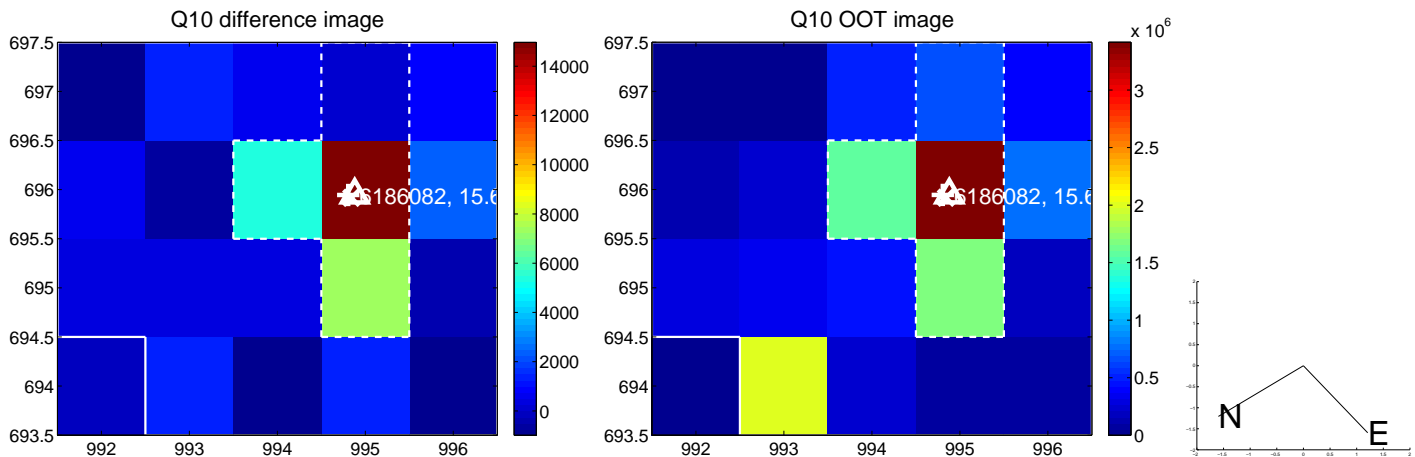
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



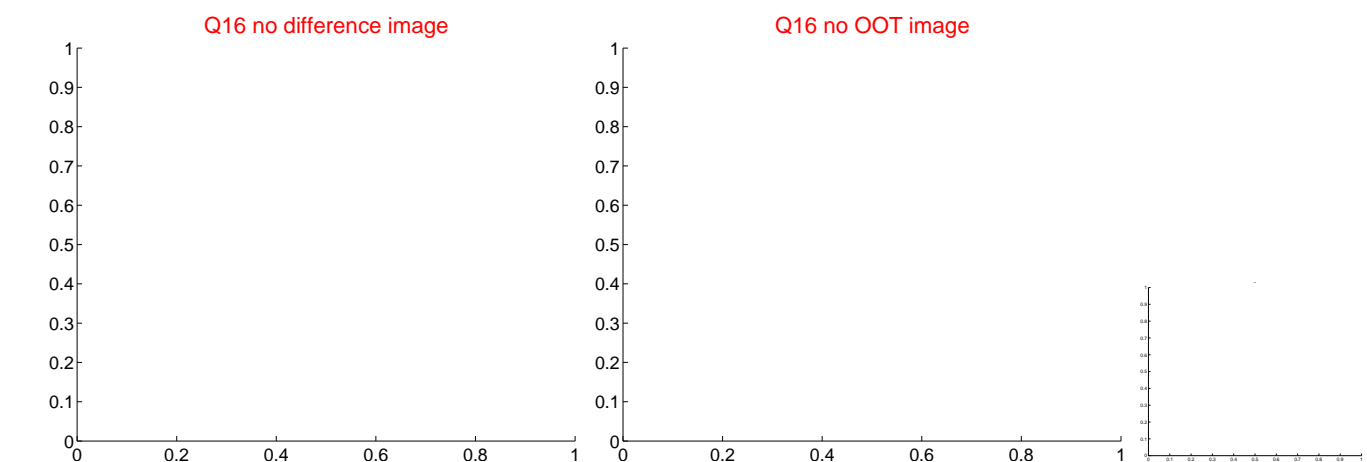
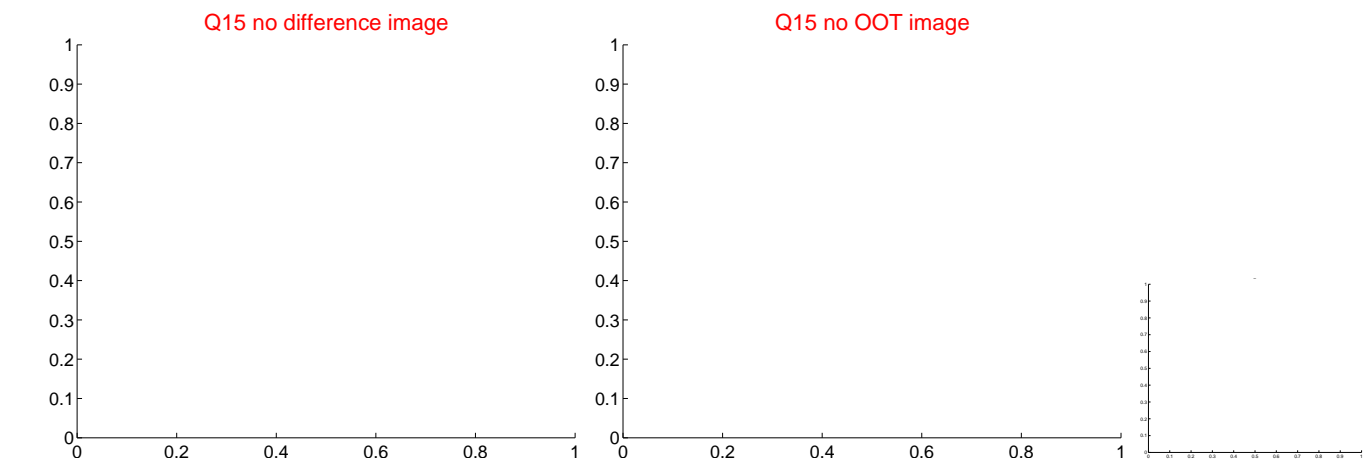
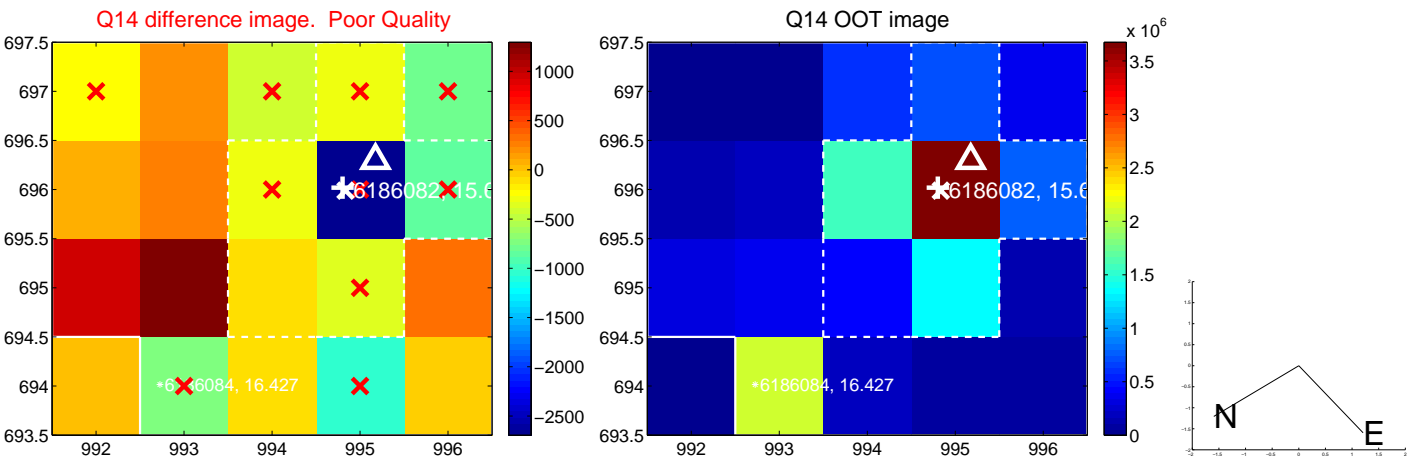
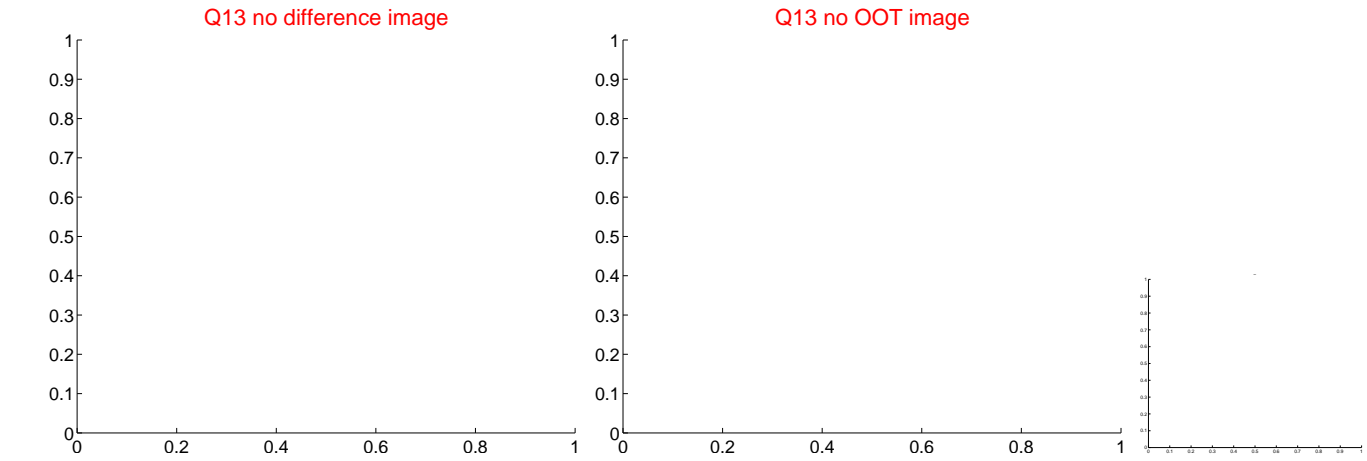
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



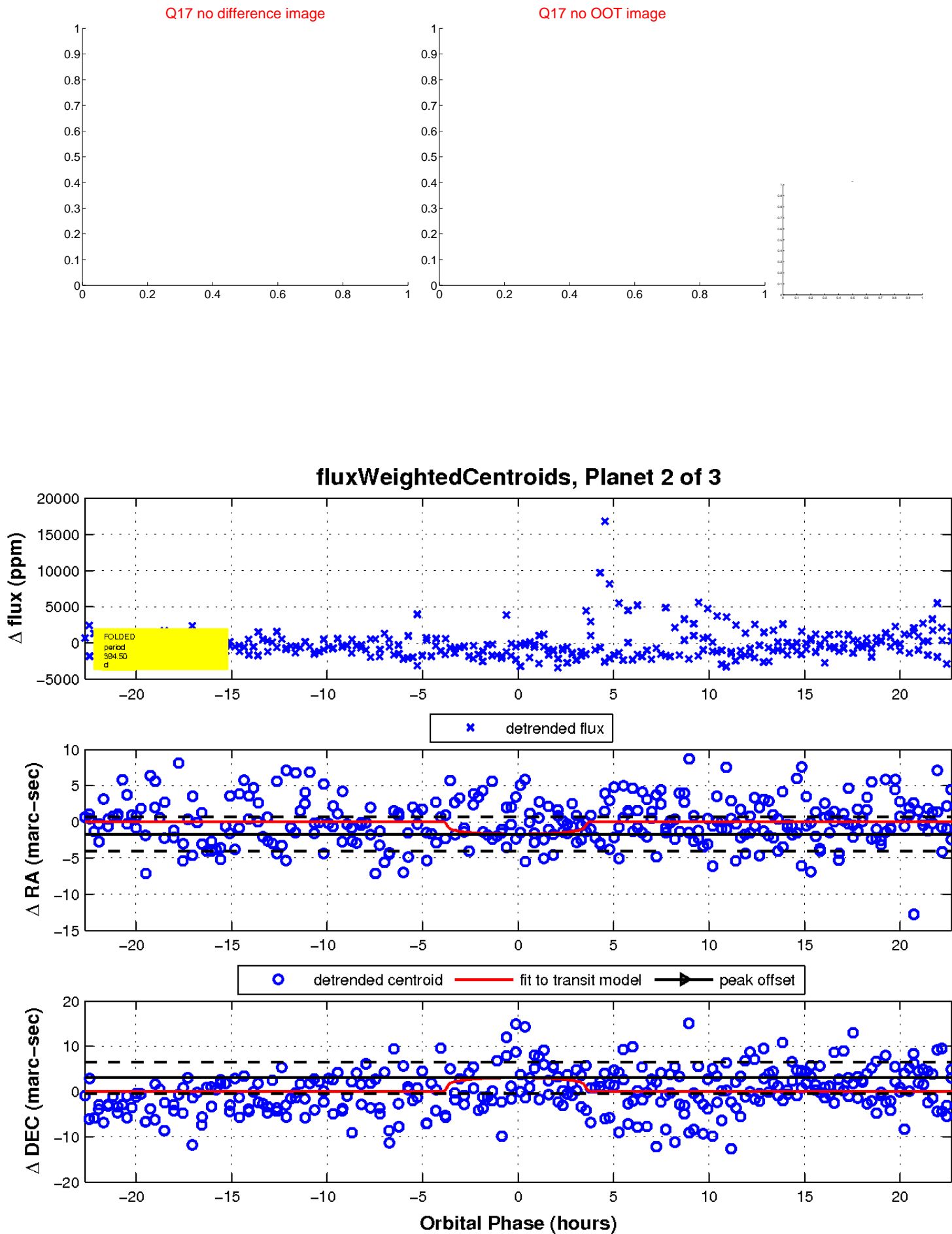
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

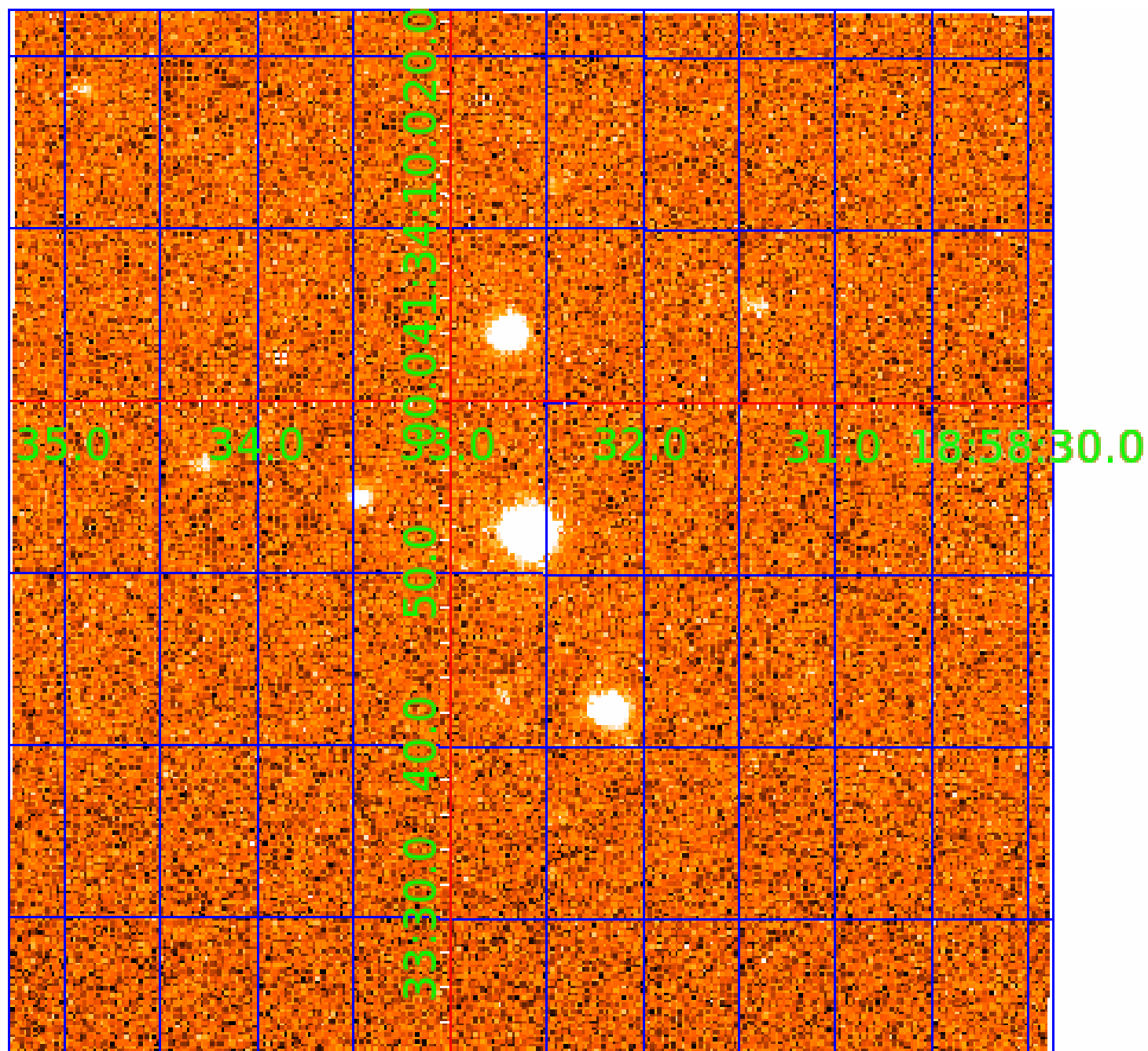


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006186082

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})
006186082-01	OBS	No	367.877310	357.108216	3.4	38.282	13.0	0.0	0.43	3620	0.08	0.05
006186082-02	OBS	No	394.501169	183.744213	1675.6	7.592	14.0	5.2	0.43	3620	1.74	0.04
006186082-03	OBS	No	313.313342	297.894940	2116.9	2.978	11.1	7.2	0.43	3620	2.03	0.06

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006186082-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006186082-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
006186082-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS

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

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

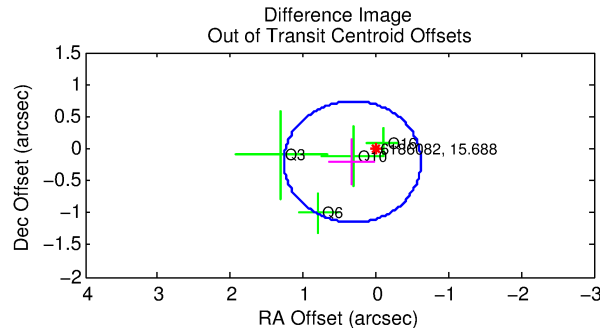
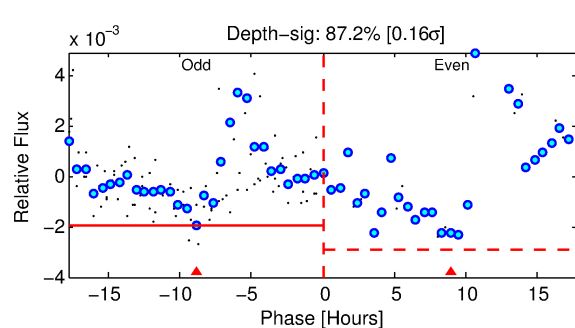
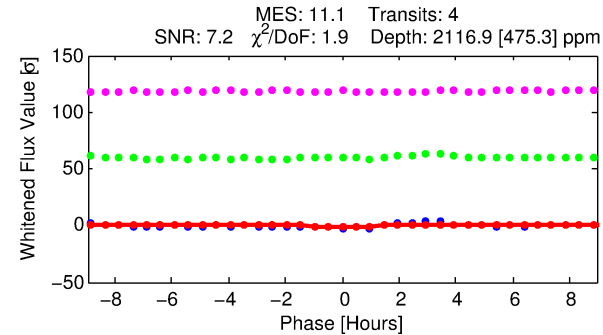
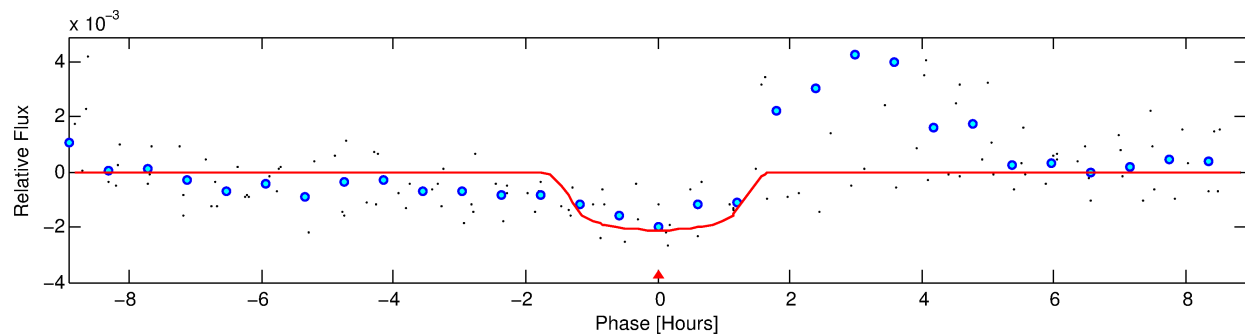
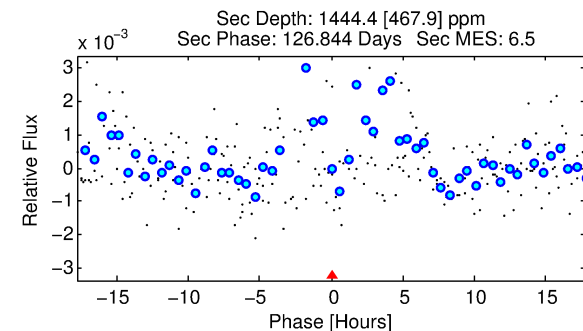
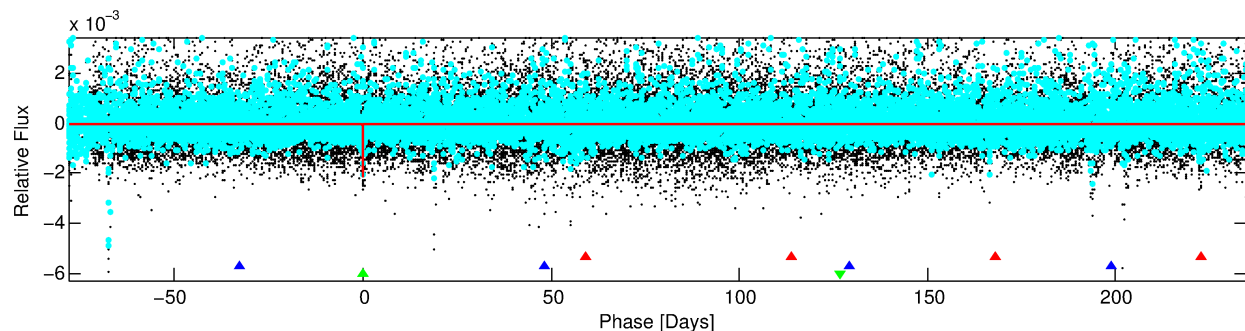
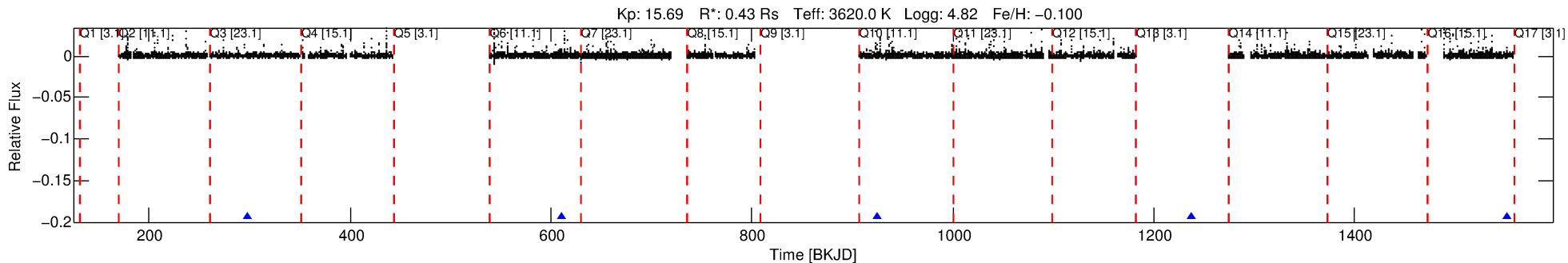
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006186082-03

No Significant Match Found

DV One-Page Summary

KIC: 6186082 Candidate: 3 of 3 Period: 313.313 d



DV Fit Results:

Period = 313.31334 [0.00389] d
Epoch = 297.8949 [0.0092] BKJD
Rp/R* = 0.0433 [0.0598]
a/R* = 717.64 [4254.81]
b = 0.54 [7.82]
Seff = 0.06 [0.01]
Teq = 126 [4] K
Rp = 2.03 [2.82] Re
a = 0.6902 [0.0557] AU
Ag = 91549.55 [254620.34] [0.36σ]
Teffp = 3390 [2356] K [1.39σ]

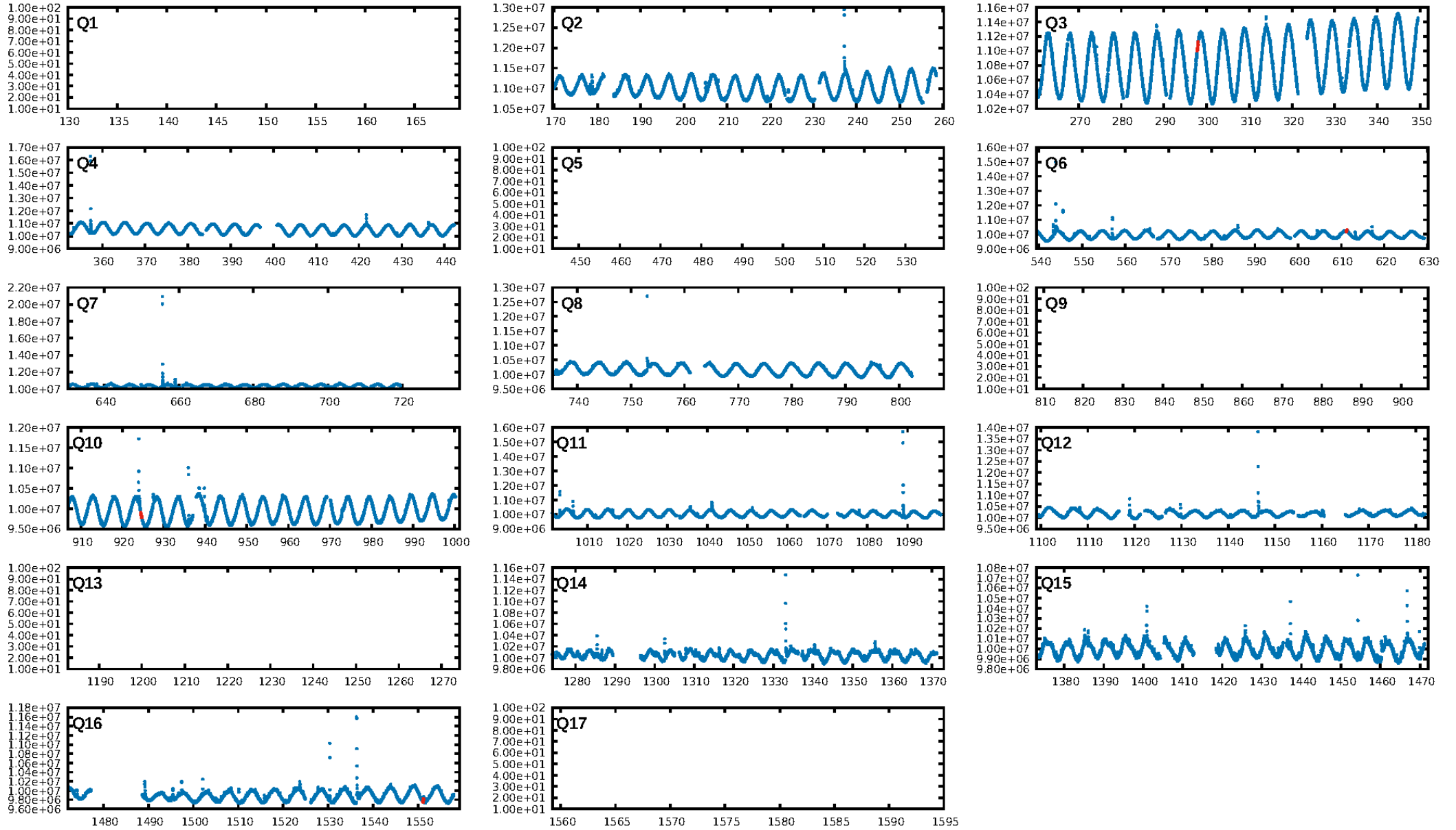
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [34.10σ]
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 27.4%
Bootstrap-pfa: 8.34e-11
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.8289
Centroid-sig: 46.3%
Centroid-so: 1.163 arcsec [0.95σ]
OotOffset-rm: 0.384 arcsec [1.22σ]
KicOffset-rm: 0.357 arcsec [1.29σ]
OotOffset-st: 2/1/1/0 [4]
KicOffset-st: 2/1/1/0 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

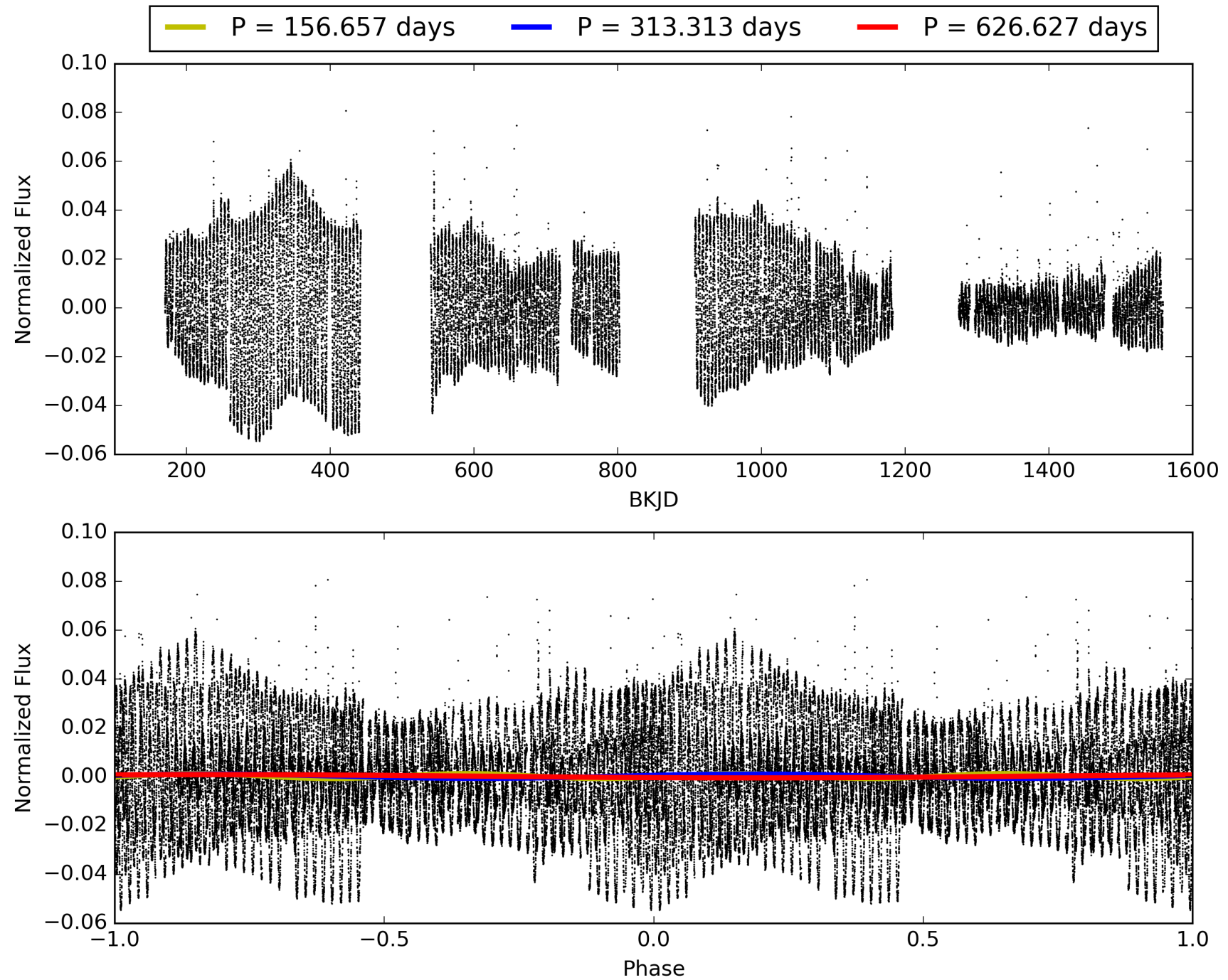
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:18:19 Z

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

TCE 006186082-03, PDC Light Curves

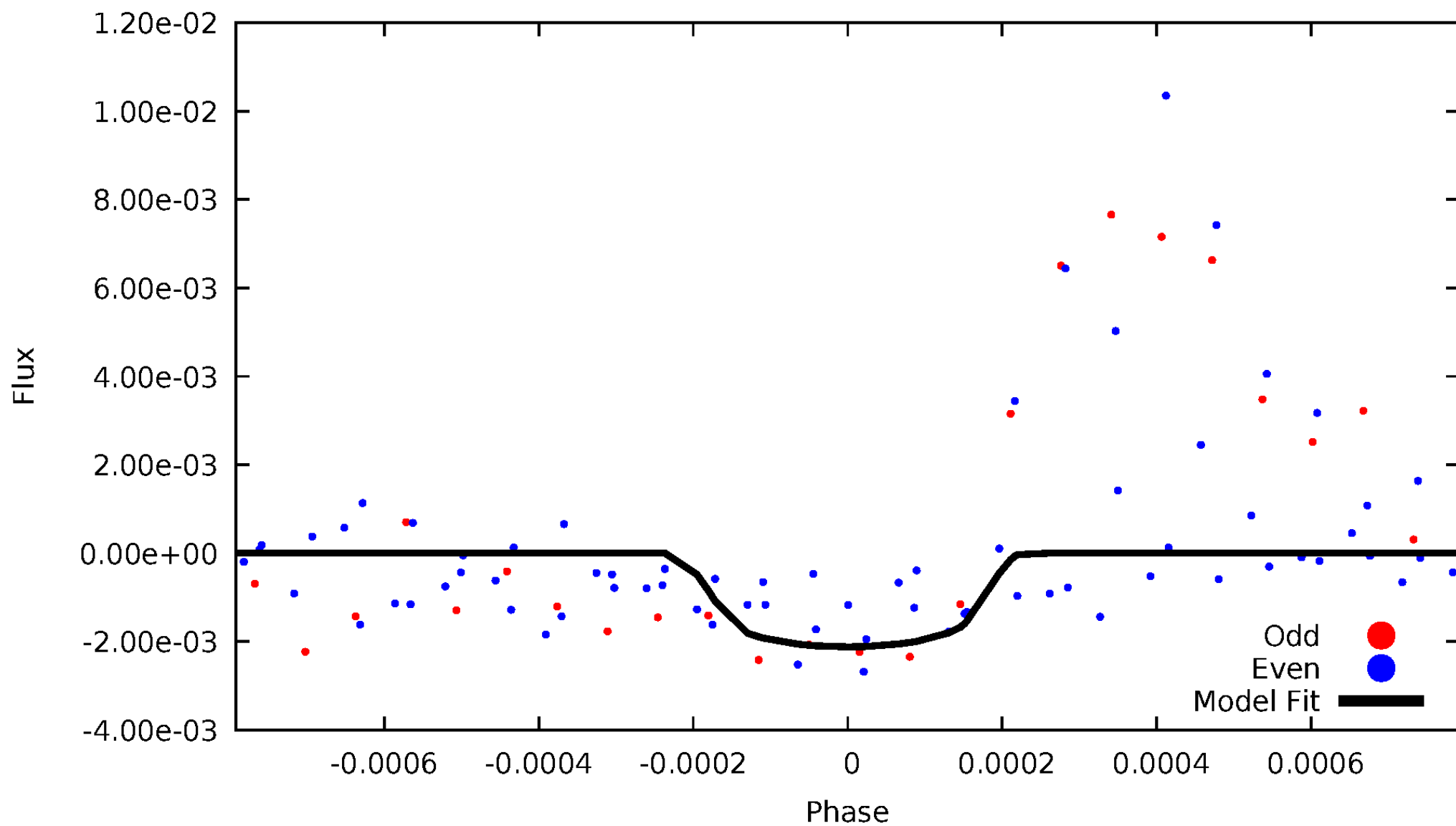


TCE 006186082-03



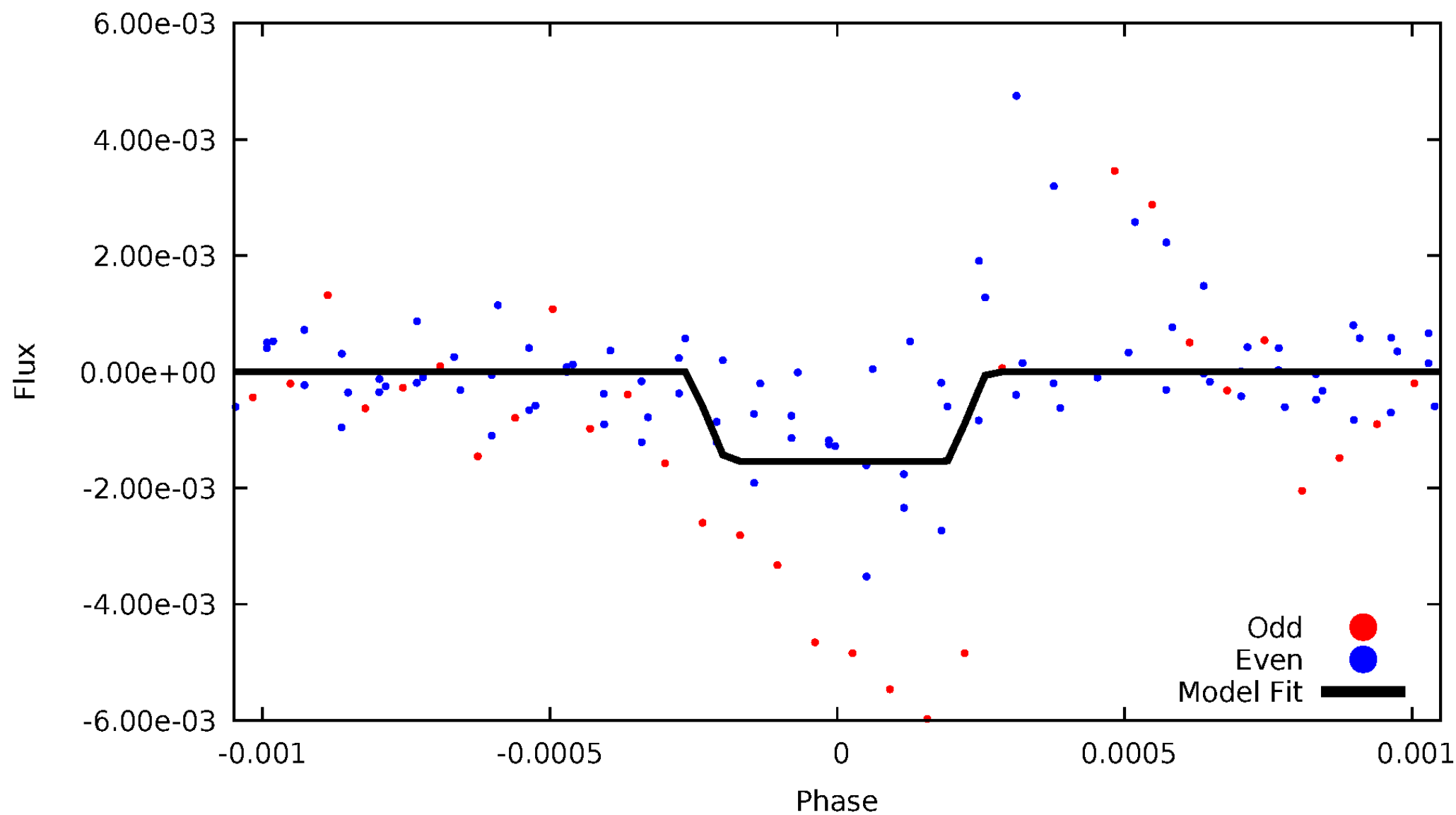
DV Odd/Even

TCE 006186082-03



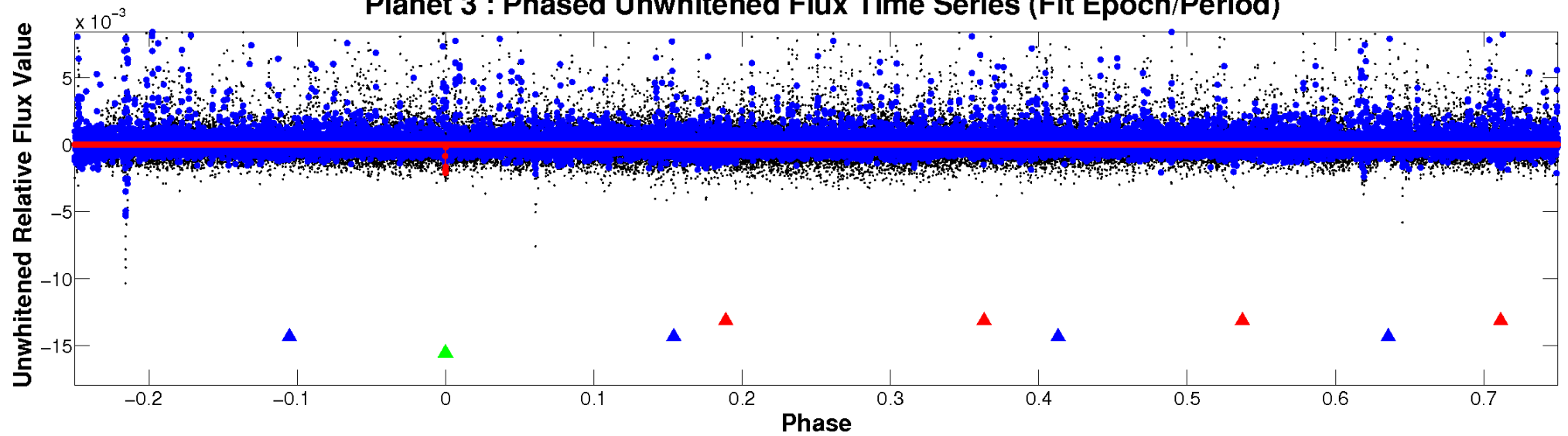
ALT Odd/Even

TCE 006186082-03

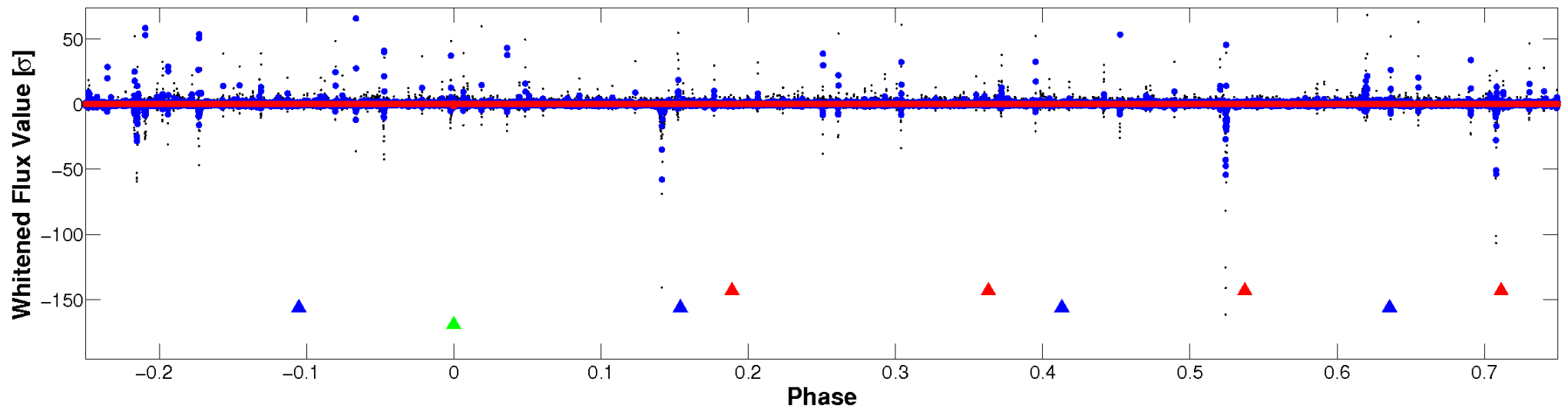


Non-Whitened Vs. Whitened Light Curve

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

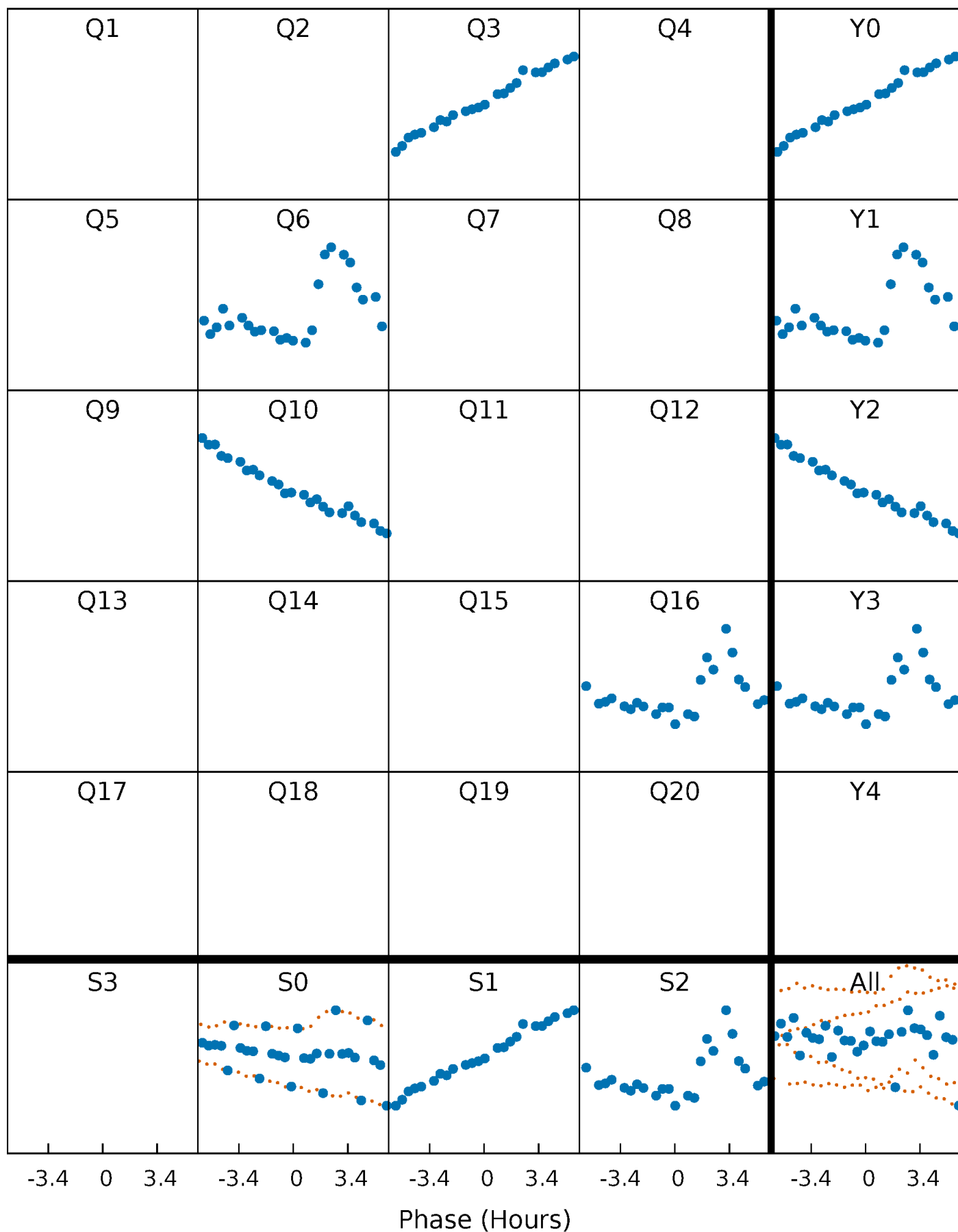


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



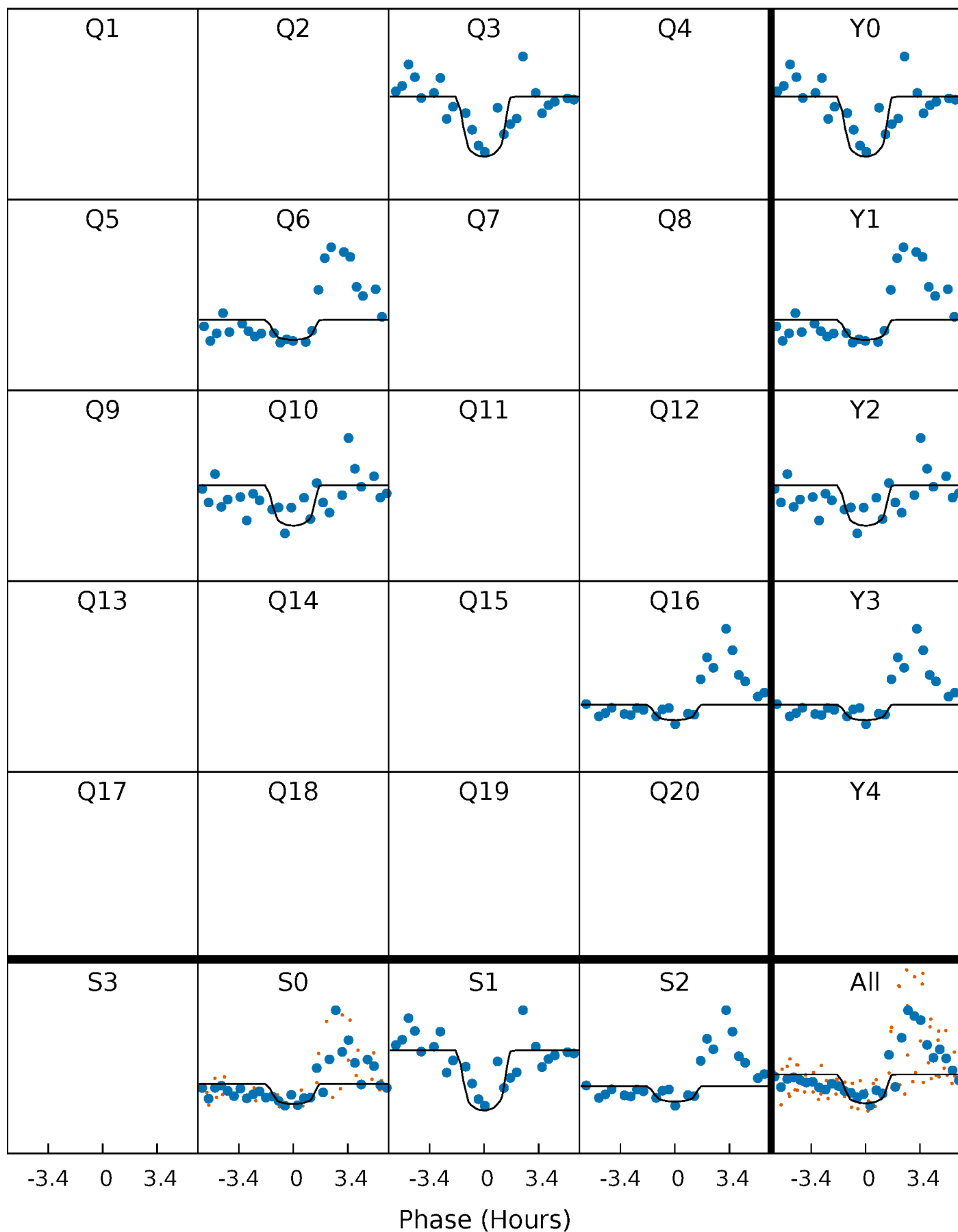
PDC Quarter-Phased Transit Curves

TCE 006186082-03 P=313.313342 Days $T_0=297.894941$ (BKJD)



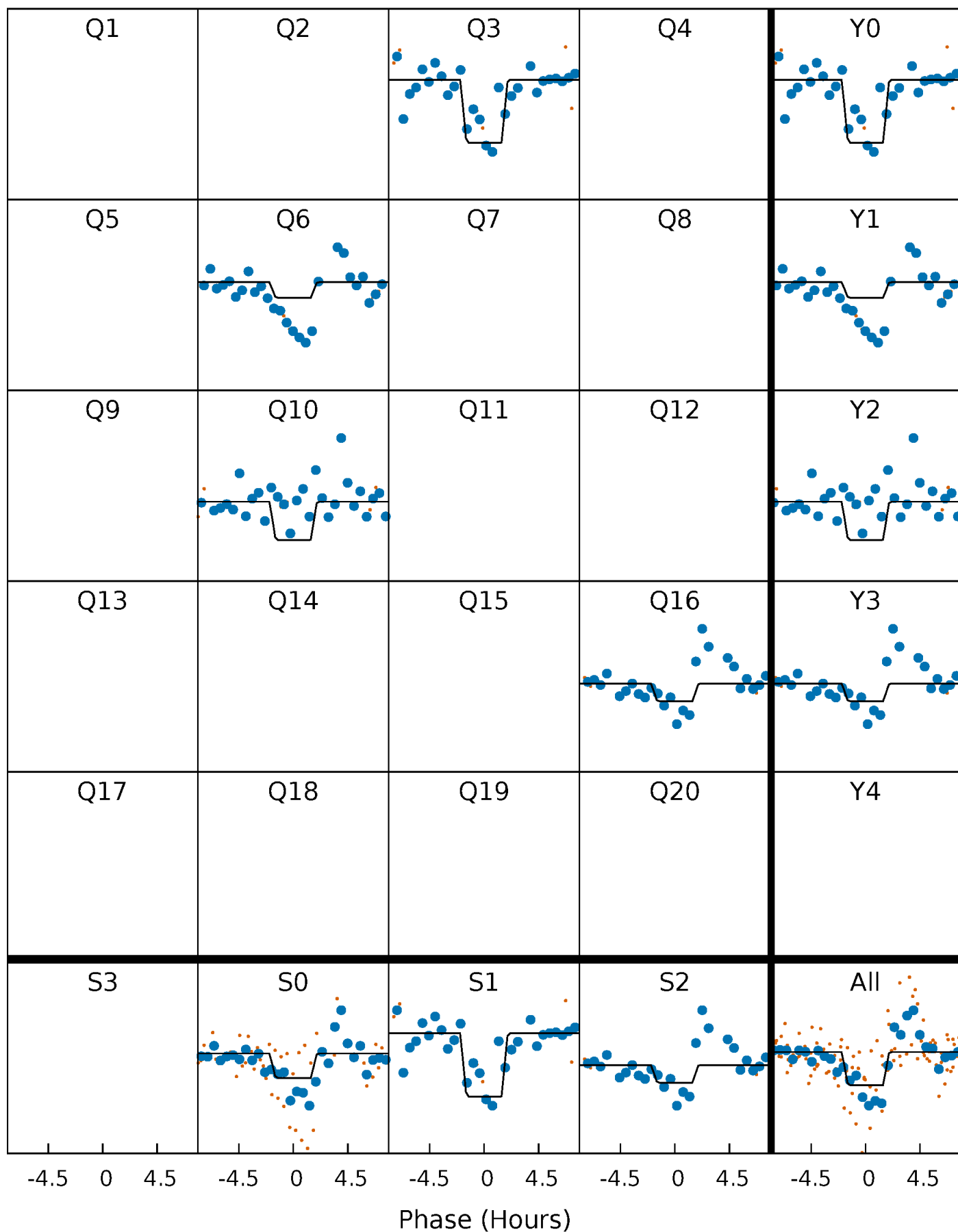
DV Quarter-Phased Transit Curves

TCE 006186082-03 P=313.313342 Days $T_0=297.894941$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

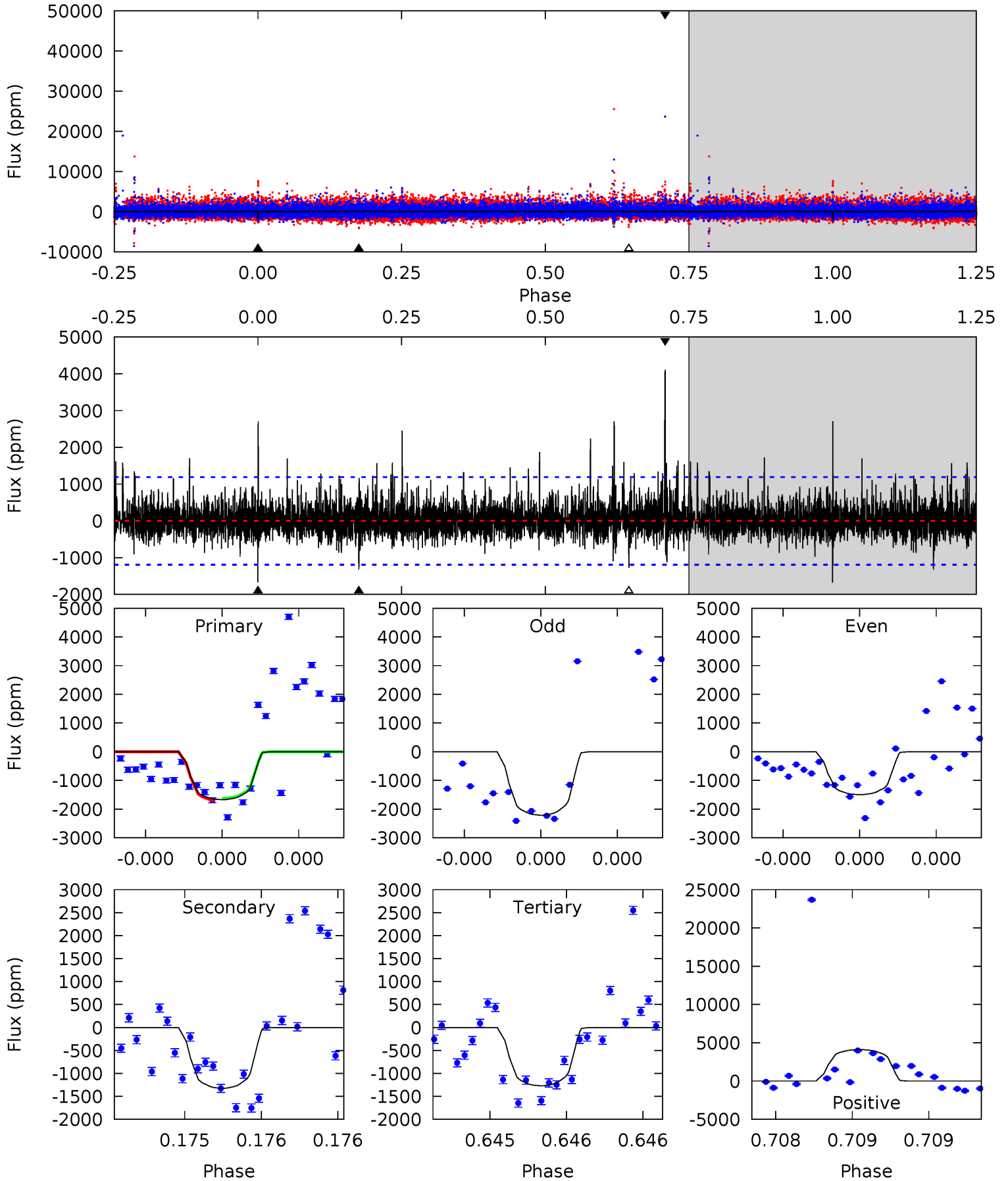
TCE 006186082-03 $P=313.318174$ Days $T_0=297.866136$ (BKJD)



DV Model-Shift Uniqueness Test

006186082-03, P = 313.313342 Days, E = 297.894941 Days

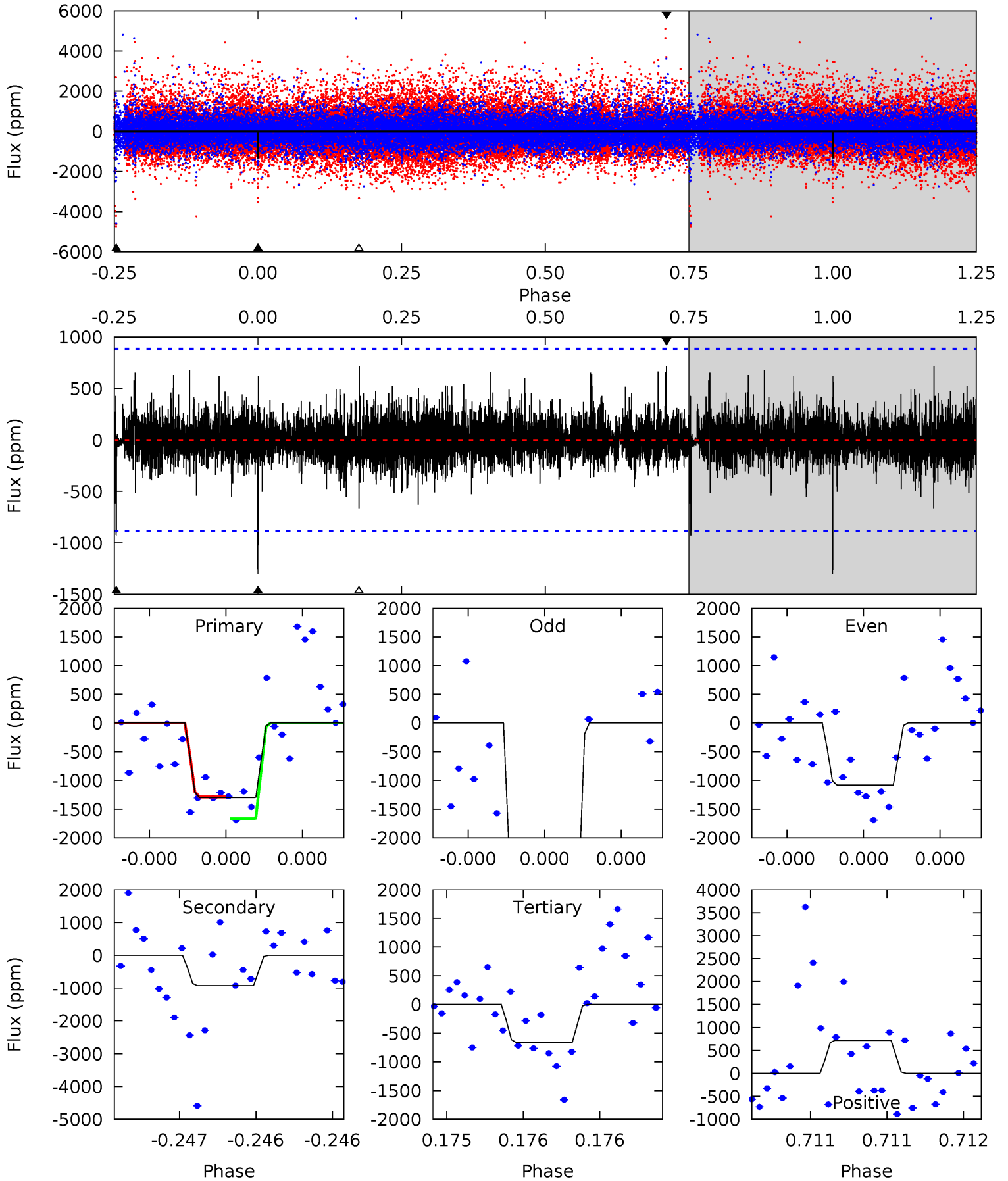
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.87	6.23	5.98	19.3	5.61	3.53	1.67	1.89	-11.5	0.26	-13.1	0.38	1.10	0.71	0.18



Alt Model-Shift Uniqueness Test

006186082-03, P = 313.318174 Days, E = 297.866136 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.21	5.84	4.17	4.54	5.58	3.49	0.91	4.03	3.66	1.67	1.30	9.14	1.30	0.36	1.21



Stellar Parameters For KIC 006186082

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3620^{+65}_{-72}	$4.821^{+0.049}_{-0.036}$	$-0.100^{+0.100}_{-0.100}$	$0.430^{+0.034}_{-0.046}$	$0.446^{+0.036}_{-0.049}$	$7.920^{+2.088}_{-1.143}$
	+2%/-2%	+1%/-1%	+100%/-100%	+8%/-11%	+8%/-11%	+26%/-14%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006186082-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1326 ± 213	$3.02^{+2.39}_{-1.94}$	176^{+4}_{-5}	3027^{+1223}_{-424}	$36458^{+251304}_{-24677}$
Alt.	-925 ± 158	$2.77^{+2.46}_{-1.86}$	176^{+5}_{-4}	2941^{+1314}_{-442}	$30305^{+248476}_{-21587}$

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

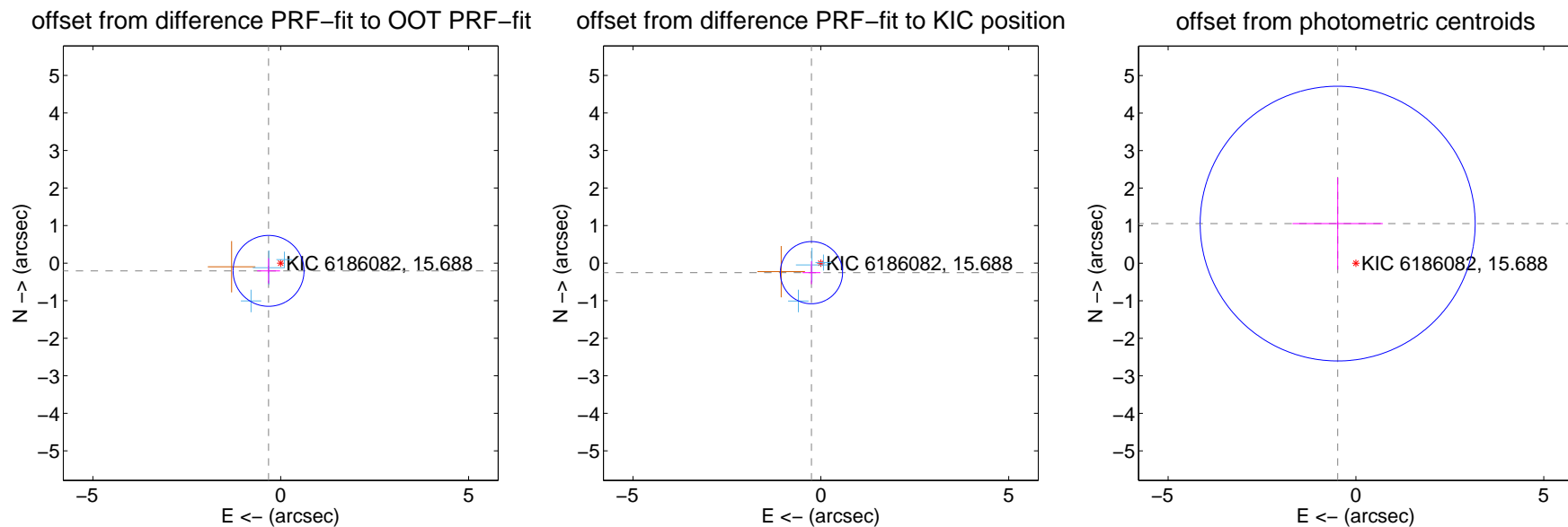
DV Centroid Data

Supplemental centroid analysis for 006186082-03. Kepler magnitude: 15.69. Transit SNR 7.16

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.384 ± 0.315	1.22	0.324 ± 0.305	-0.206 ± 0.337
PRF-fit source offset from KIC position	0.357 ± 0.276	1.29	0.251 ± 0.239	-0.253 ± 0.308
photometric centroid source offset	1.16 ± 1.22	0.95	0.49 ± 1.20	1.06 ± 1.22



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

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

Q1 no difference image



Q1 no OOT image



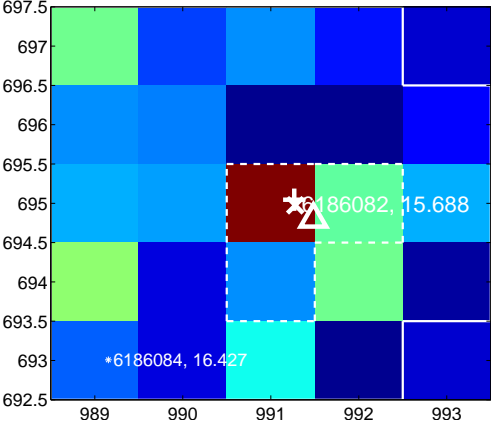
Q2 no difference image



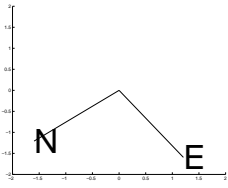
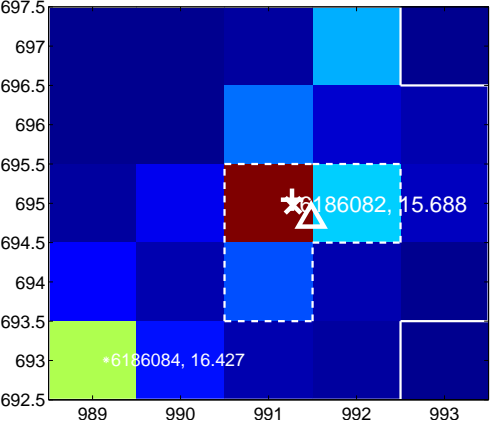
Q2 no OOT image



Q3 difference image. Poor Quality



Q3 OOT image



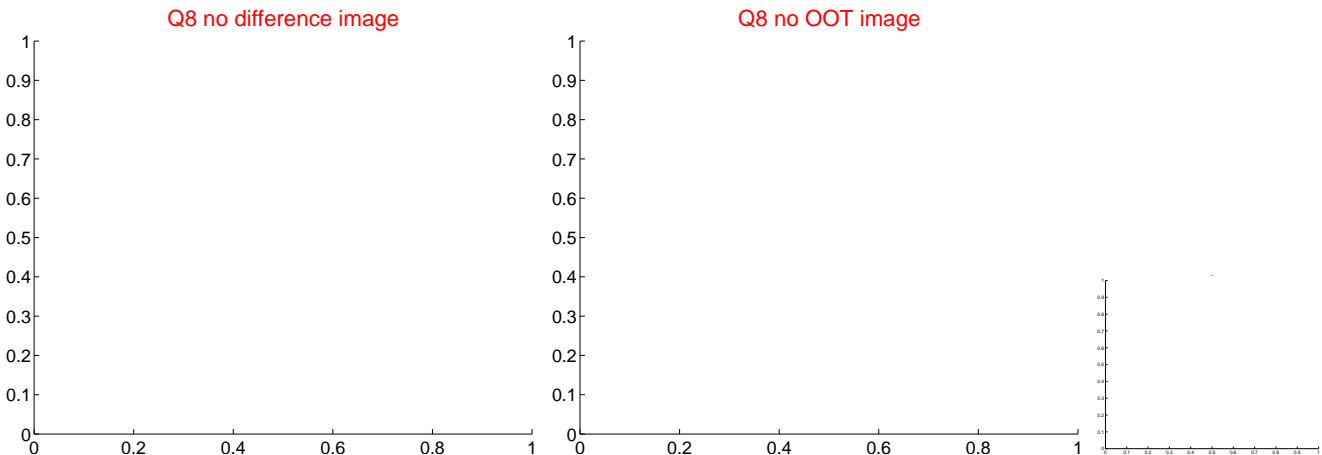
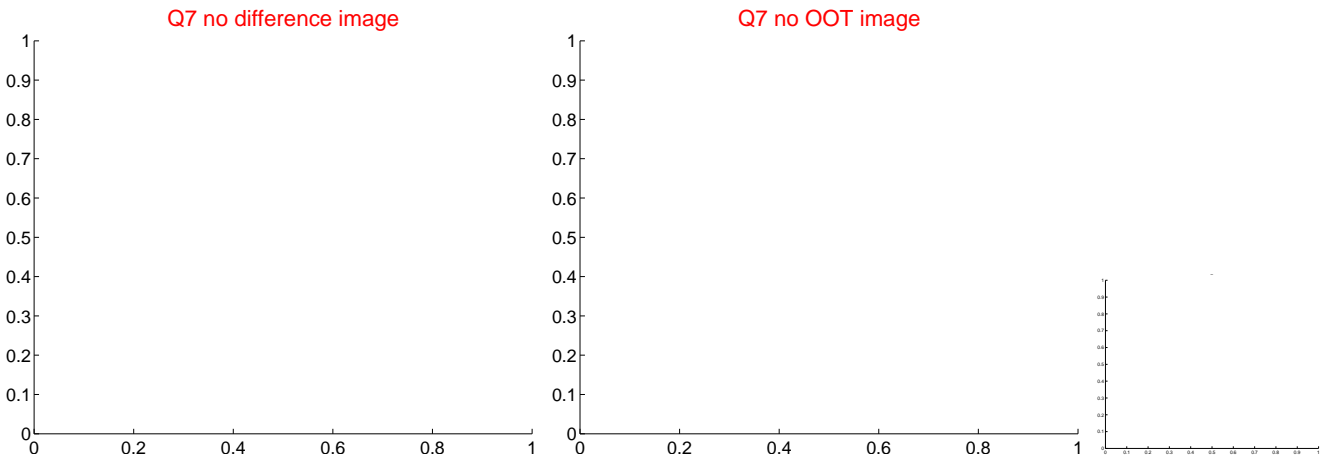
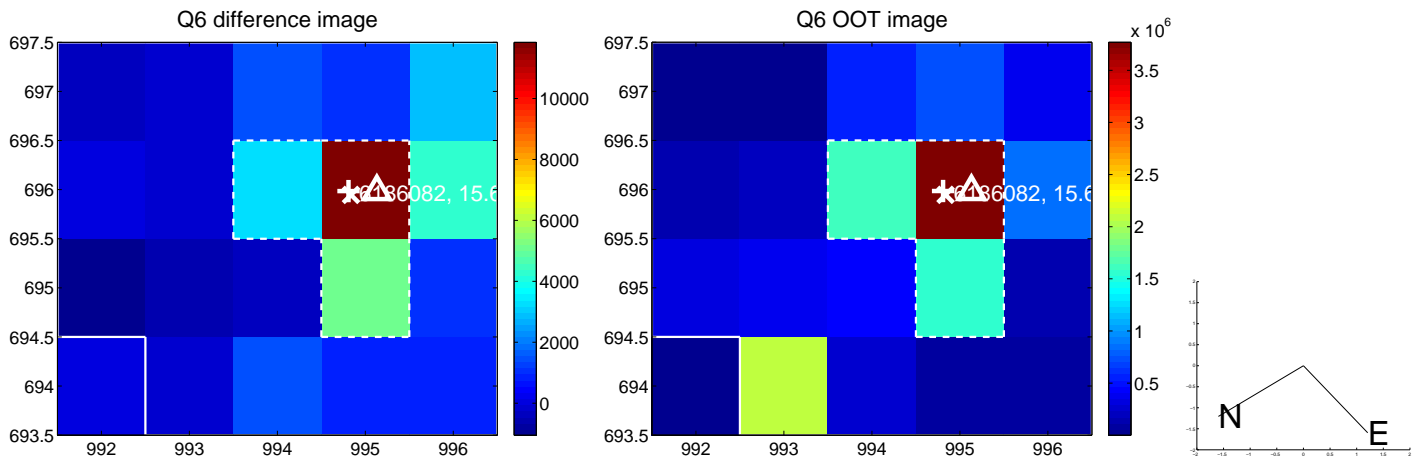
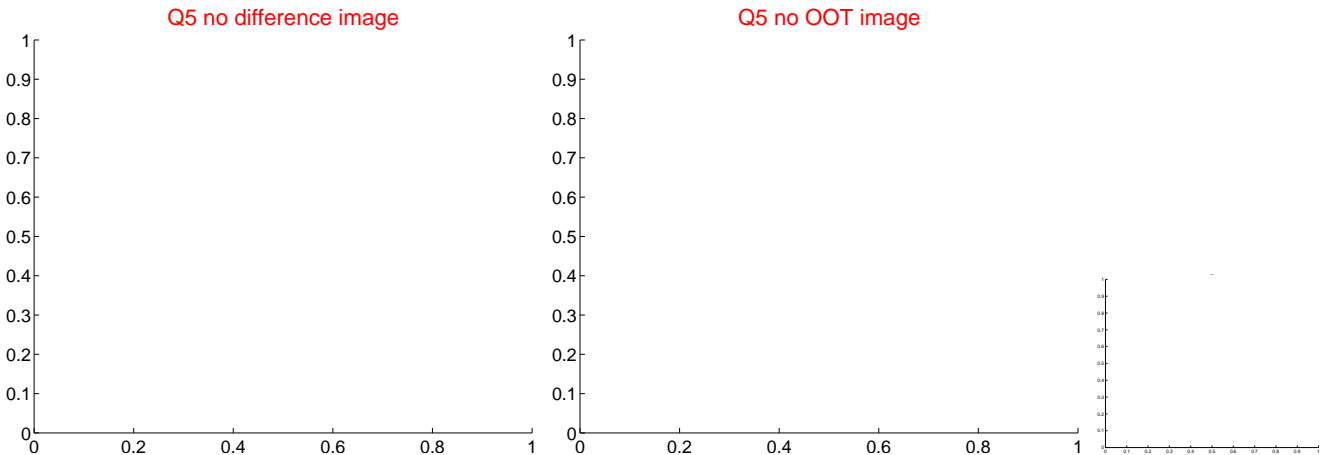
Q4 no difference image



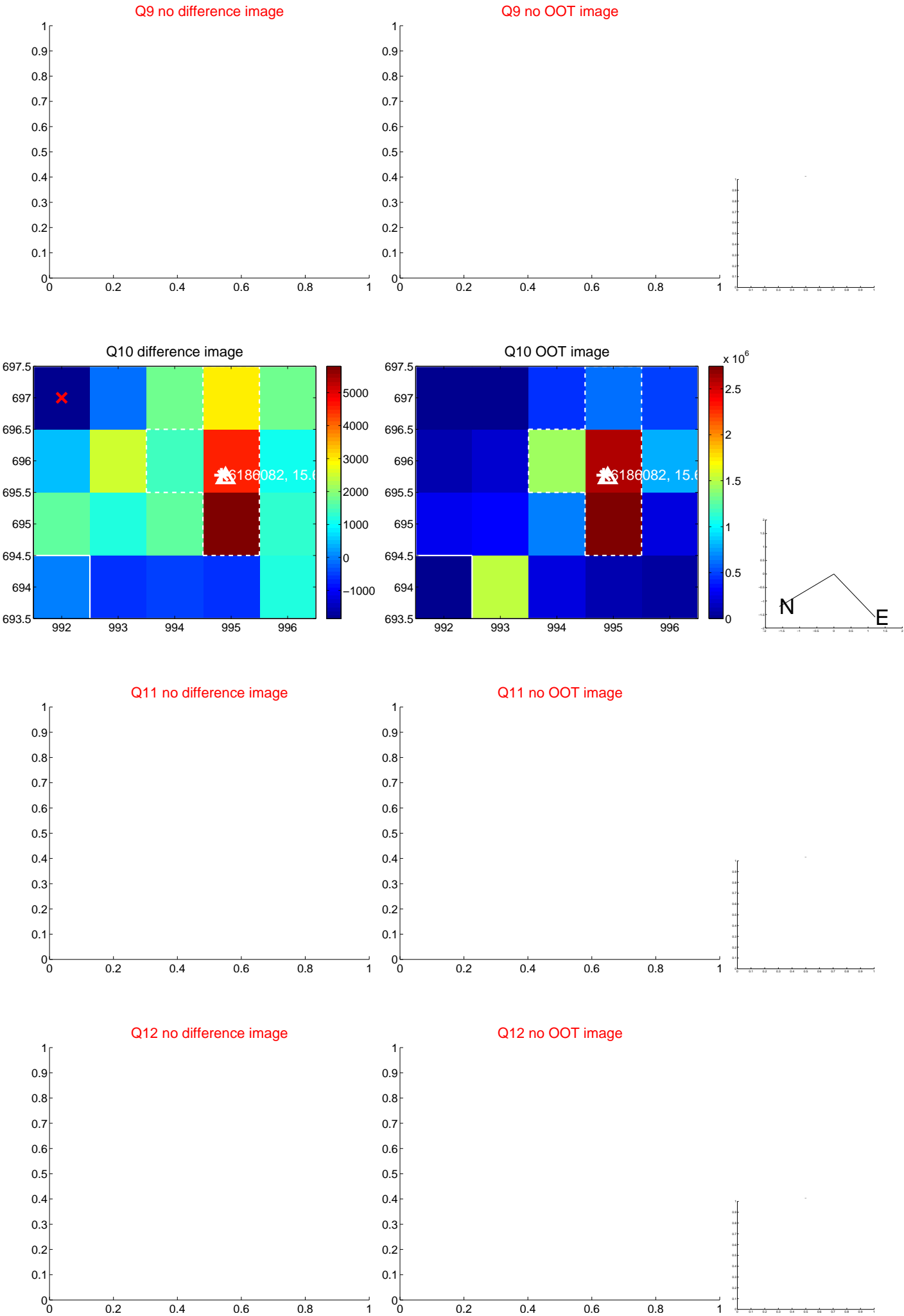
Q4 no OOT image



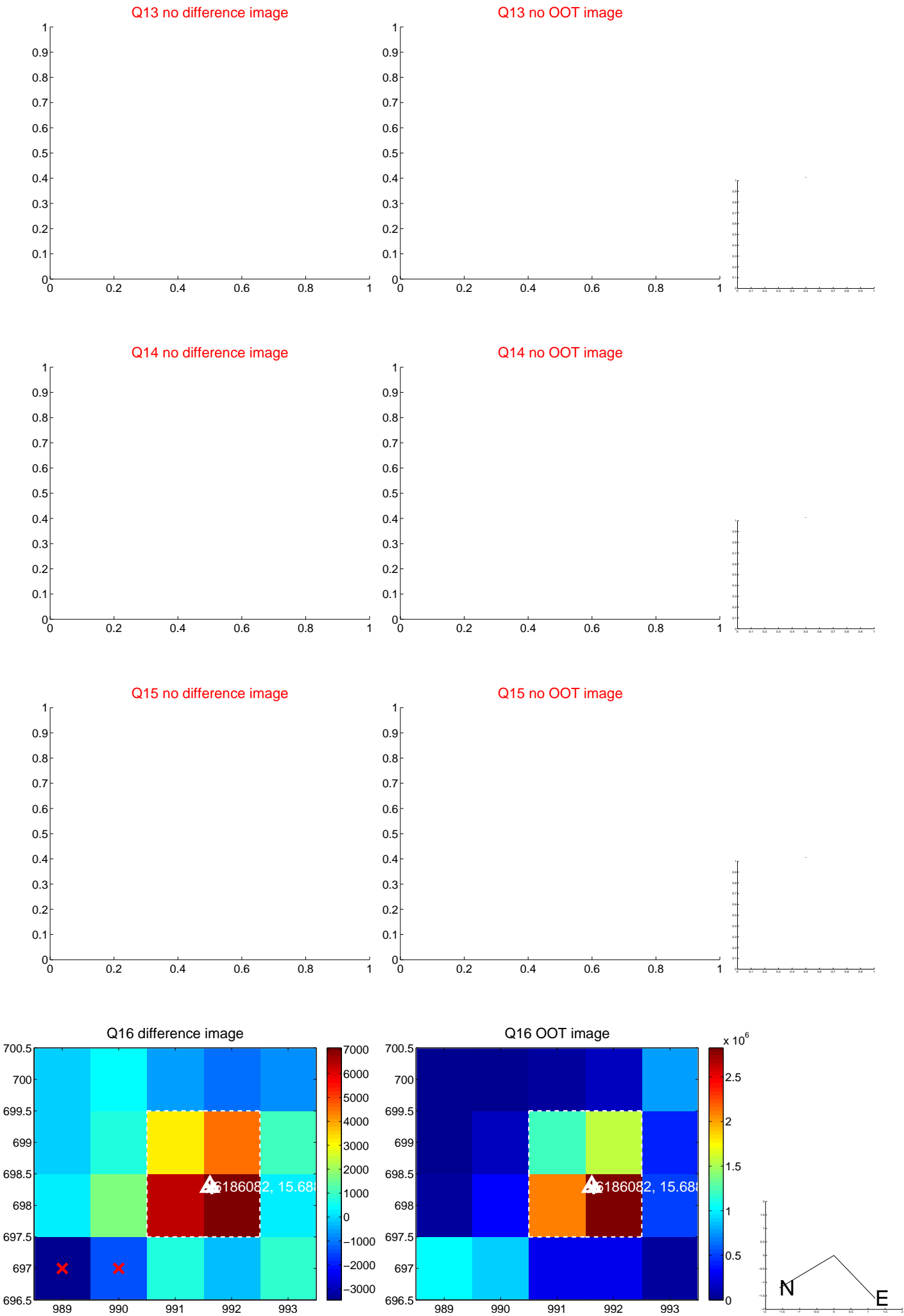
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



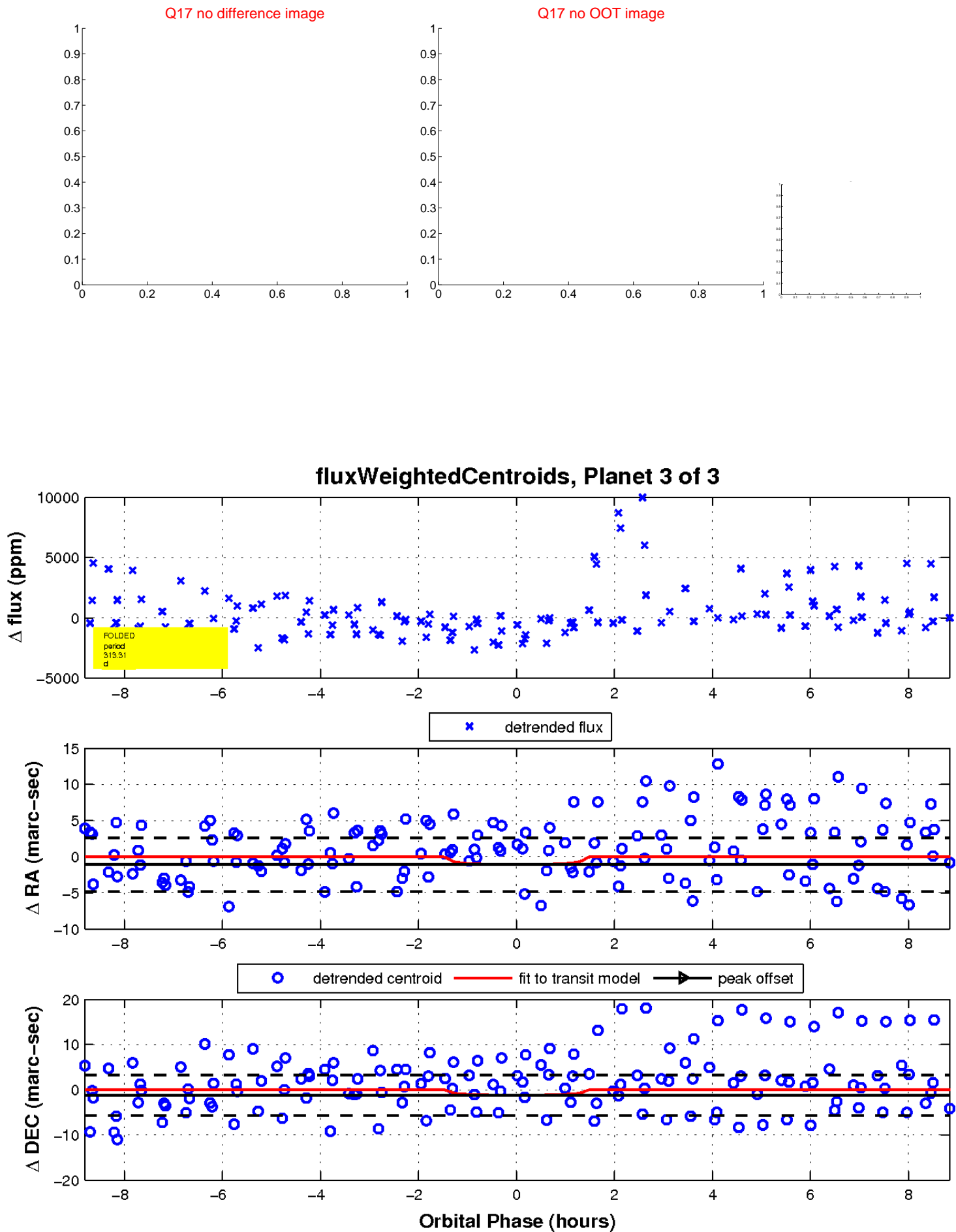
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

