

KIC 006941075

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})
006941075-01	OBS	No	373.535198	490.882358	987.7	14.574	10.6	9.6	0.90	5580	2.86	0.72
006941075-02	OBS	No	372.079378	307.742600	1405.0	16.065	9.5	9.3	0.90	5580	6.53	0.72
006941075-03	OBS	No	373.718867	305.924336	1157.8	24.424	8.7	7.3	0.90	5580	5.97	0.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006941075-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006941075-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—CENT_FEW_DIFFS
006941075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—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.

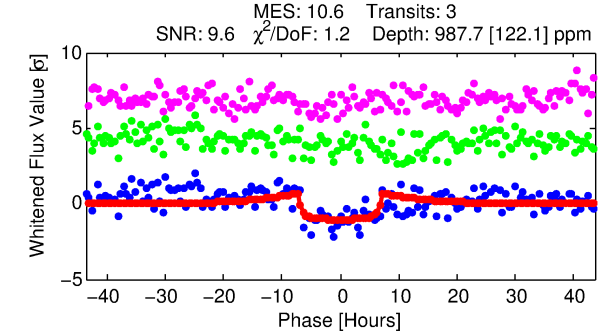
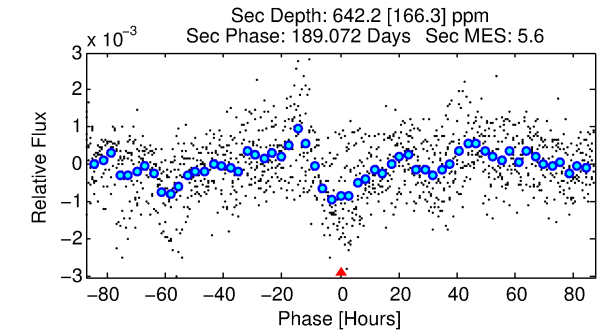
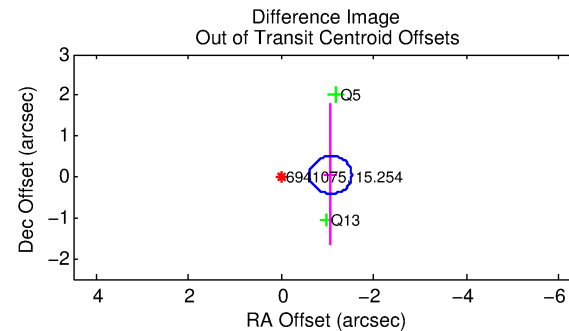
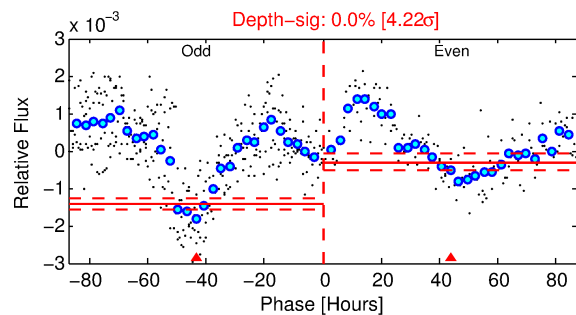
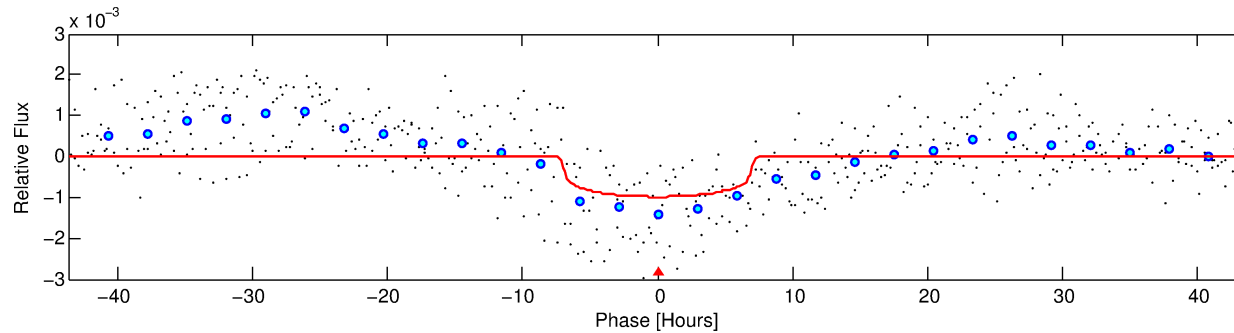
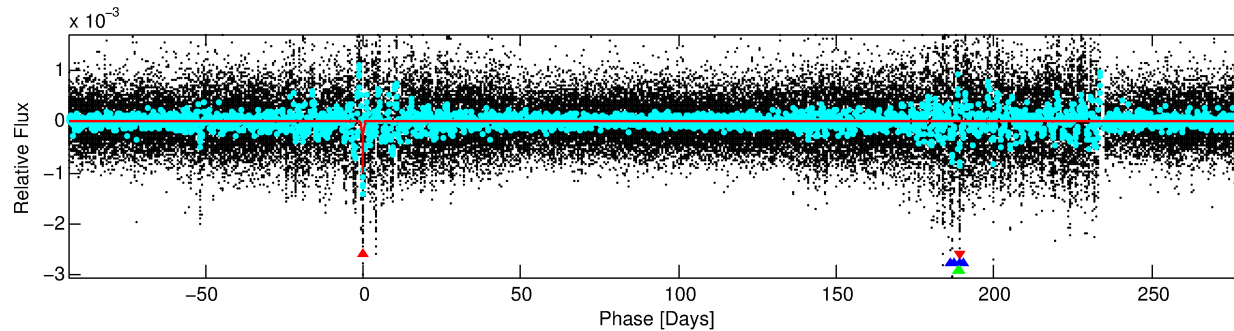
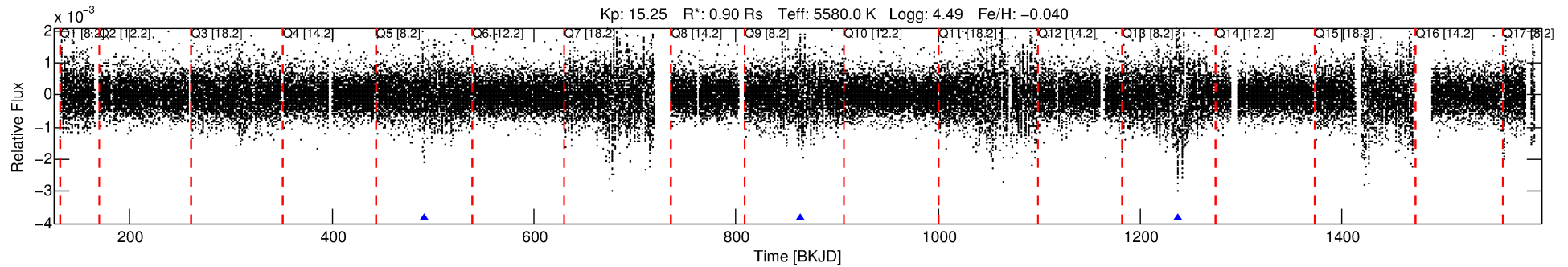
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006941075-01

No Significant Match Found

DV One-Page Summary

KIC: 6941075 Candidate: 1 of 3 Period: 373.535 d



DV Fit Results:

Period = 373.53520 [0.01126] d
Epoch = 490.8824 [0.0146] BKJD
Rp/R* = 0.0293 [0.0124]
a/R* = 177.73 [304.46]
b = 0.49 [2.72]
Seff = 0.72 [0.24]
Teq = 235 [20] K
Rp = 2.86 [1.42] Re
a = 0.9828 [0.2131] AU
Ag = 41761.00 [39184.15] [1.07σ]
Teffp = 5192 [1159] K [4.28σ]

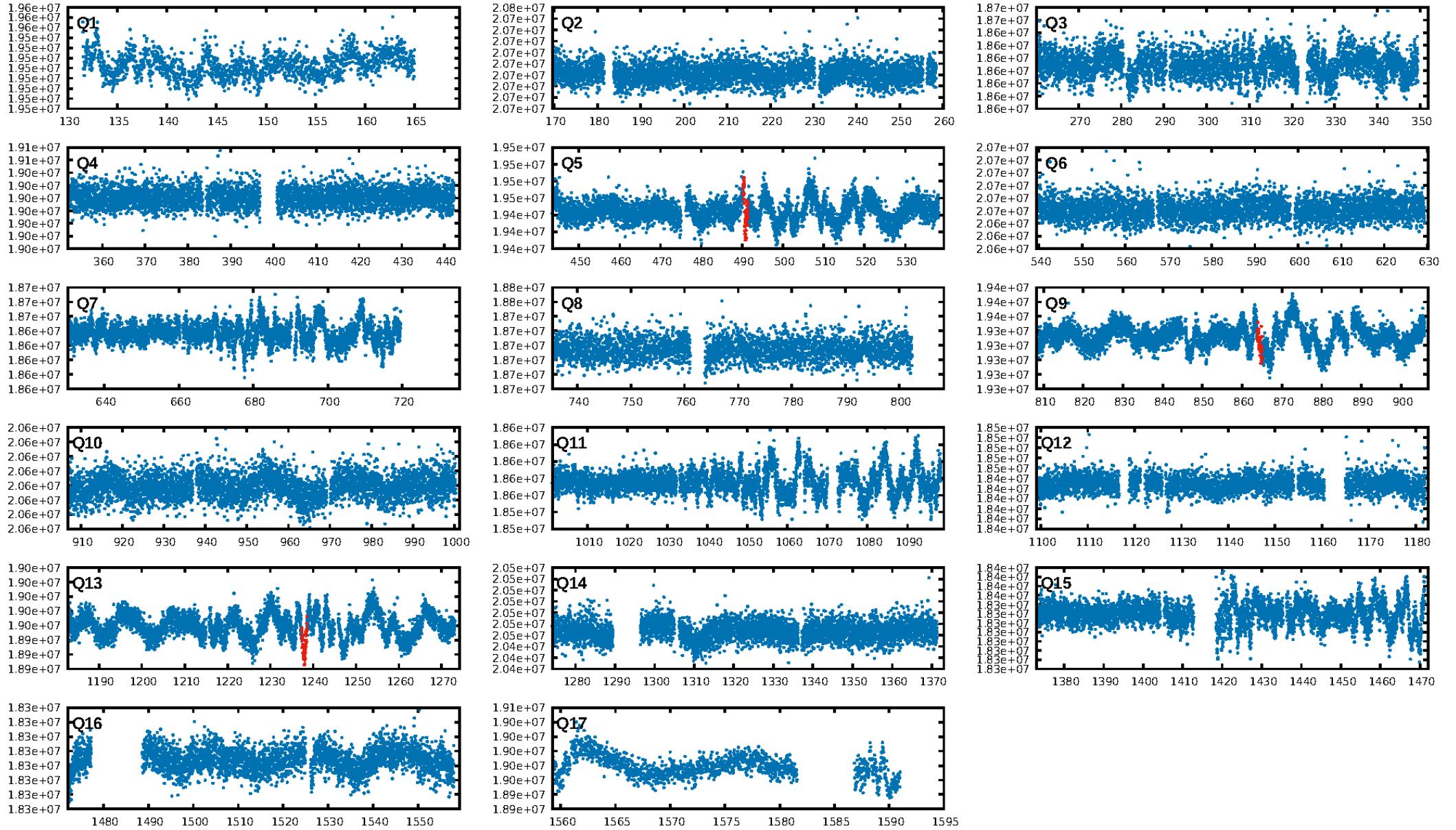
DV Diagnostic Results:

ShortPeriod-sig: 89.3% [1.61σ]
LongPeriod-sig: 12.3% [0.15σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 83.2%
Bootstrap-pfa: 1.07e-13
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.071
Centroid-sig: 61.9%
Centroid-so: 1.046 arcsec [0.75σ]
OotOffset-rm: 1.070 arcsec [7.01σ]
KicOffset-rm: 1.145 arcsec [9.54σ]
OotOffset-st: 0/0/0/2 [2]
KicOffset-st: 0/0/0/2 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

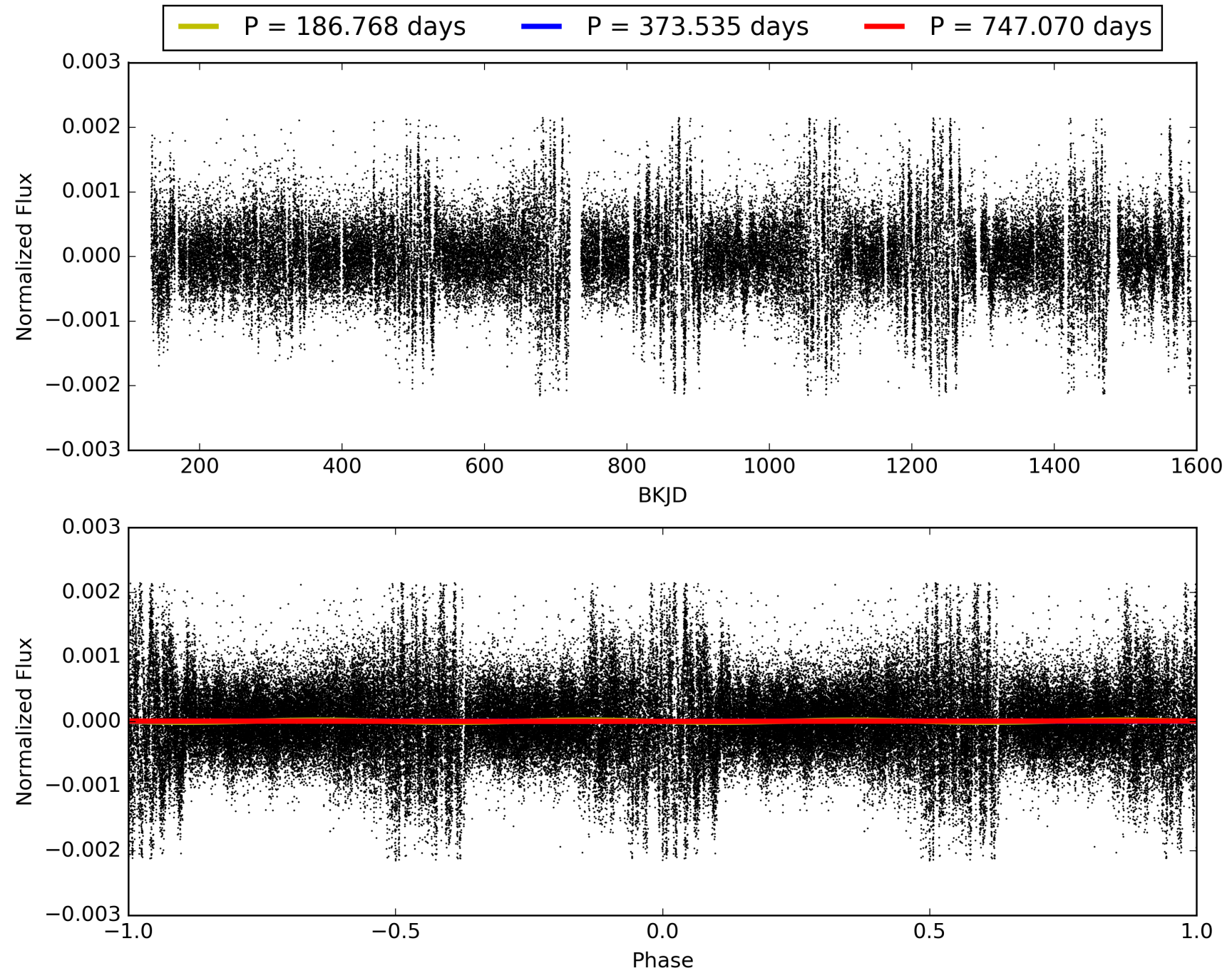
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:17:26 Z

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

TCE 006941075-01, PDC Light Curves

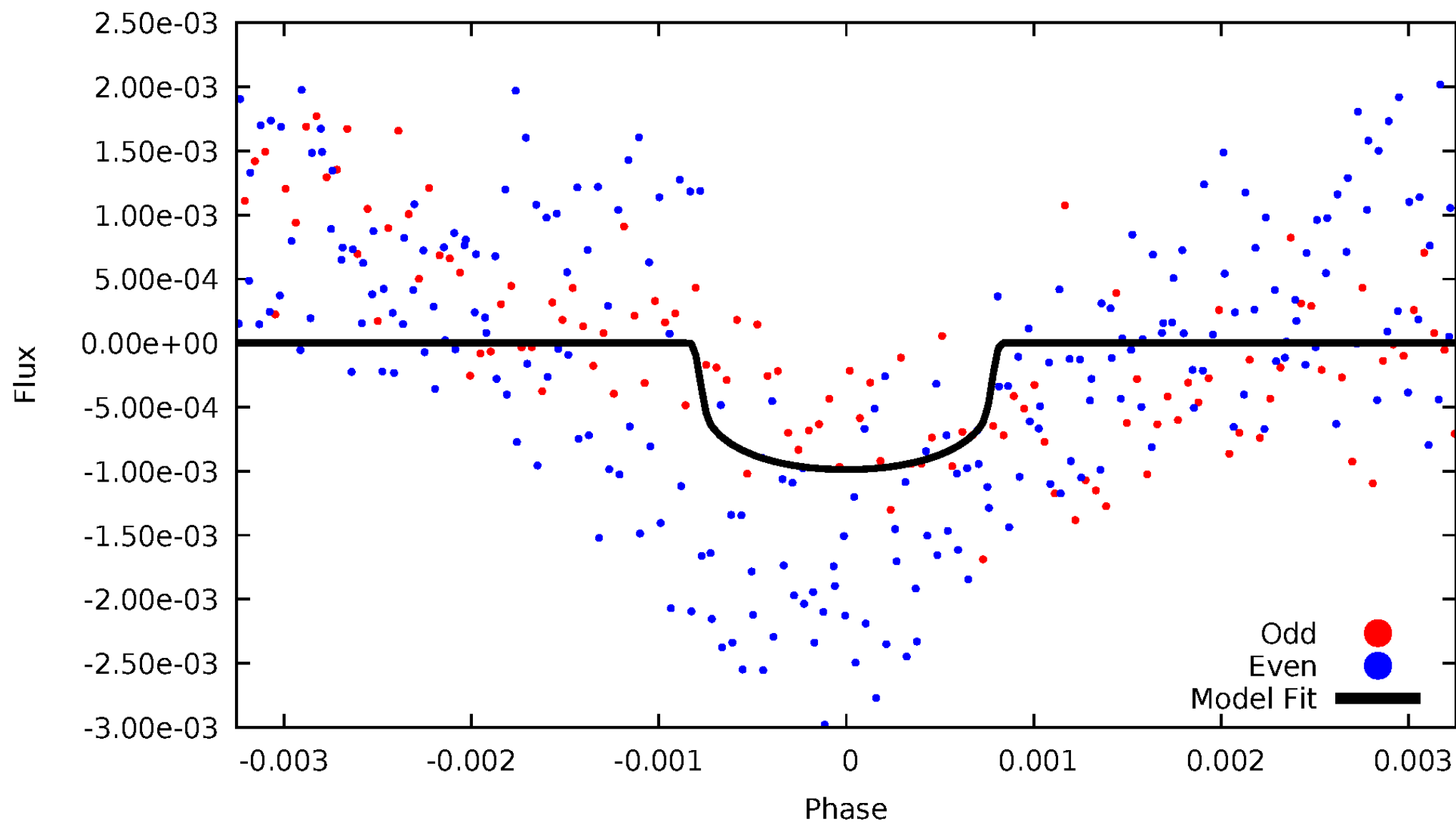


TCE 006941075-01



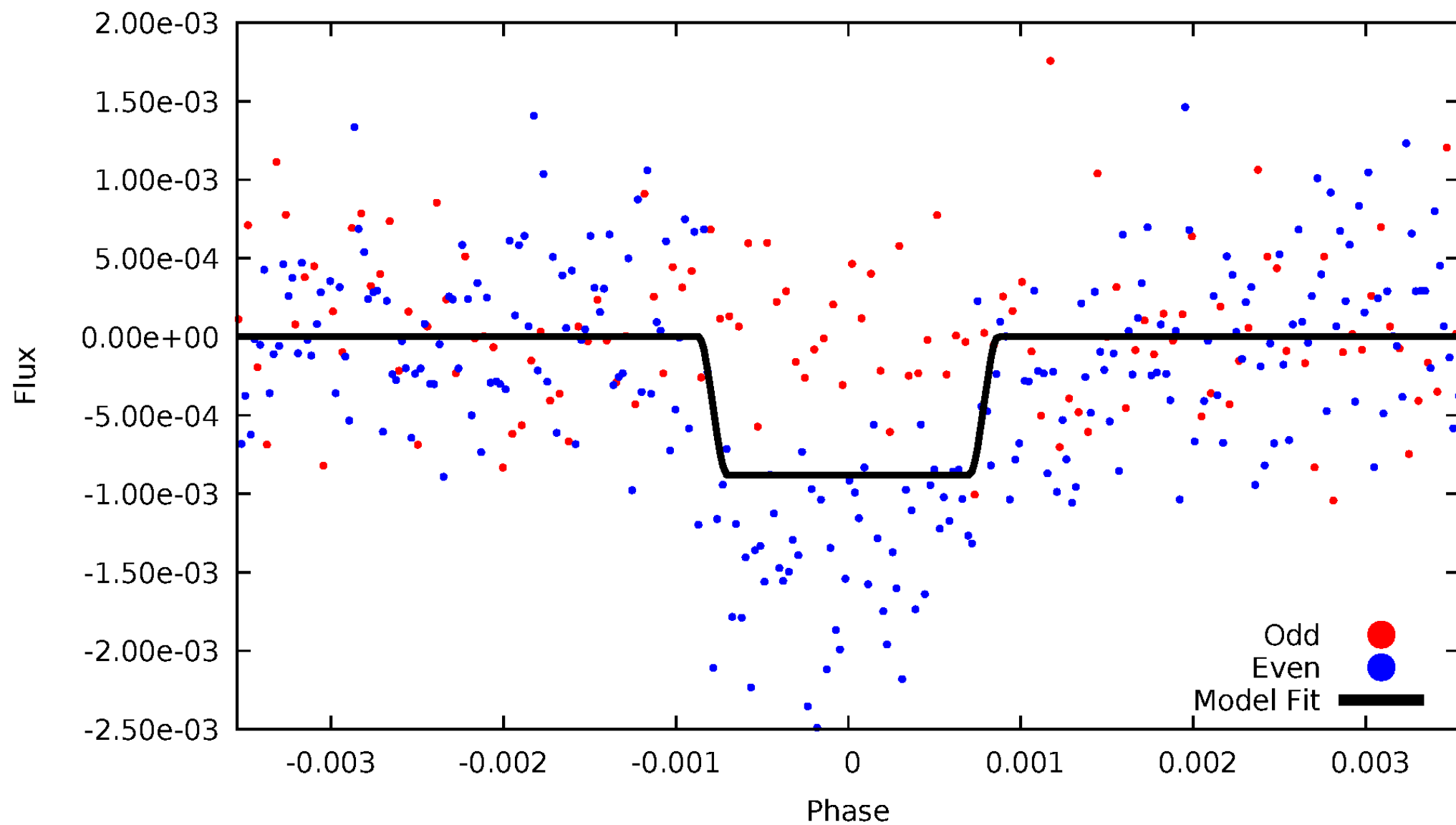
DV Odd/Even

TCE 006941075-01



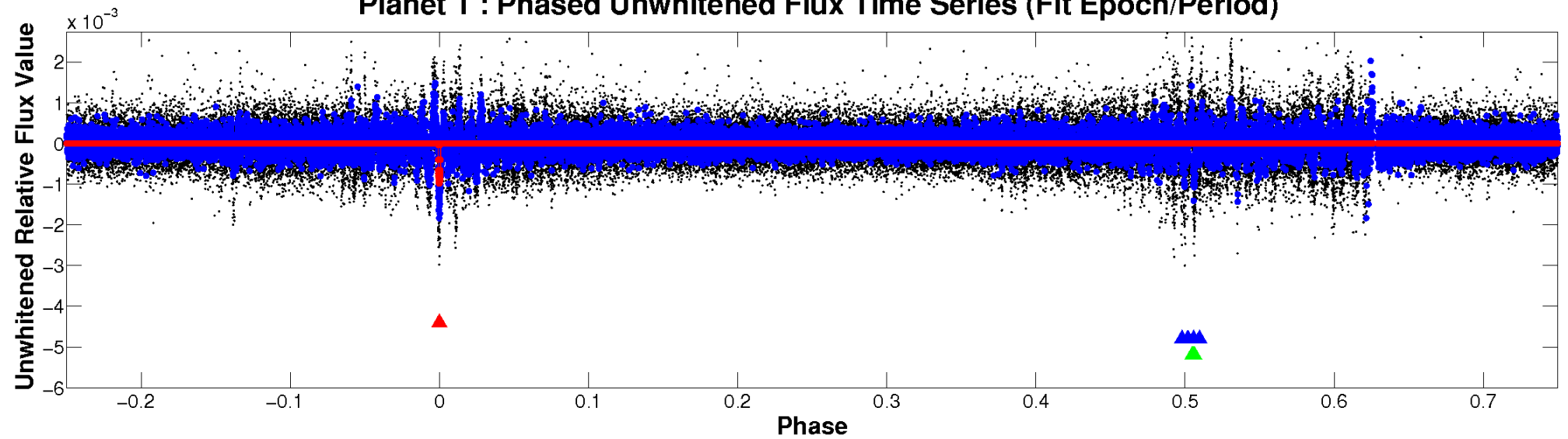
ALT Odd/Even

TCE 006941075-01

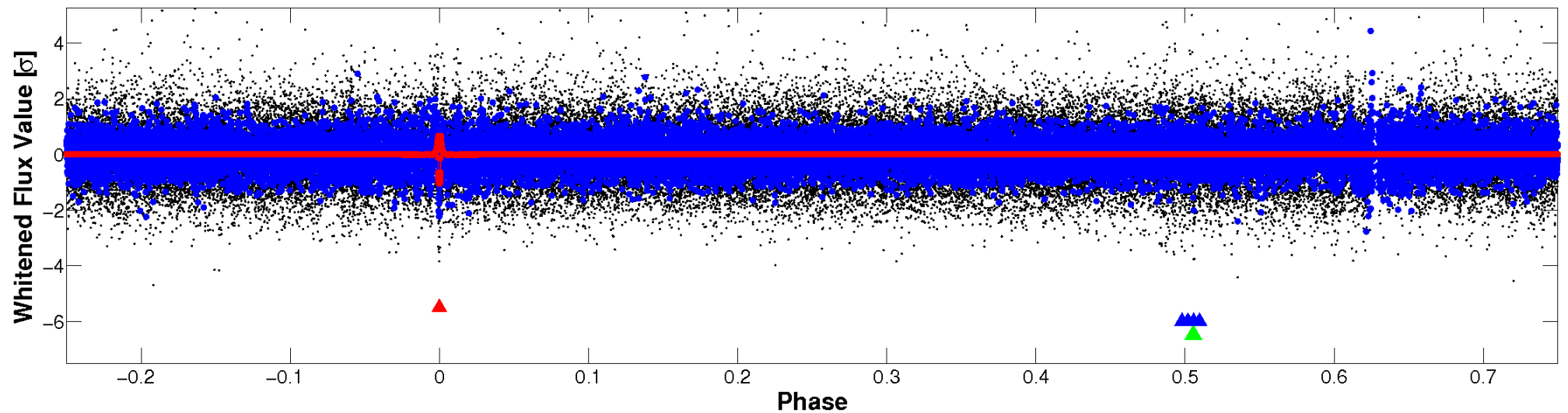


Non-Whitened Vs. Whitened Light Curve

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

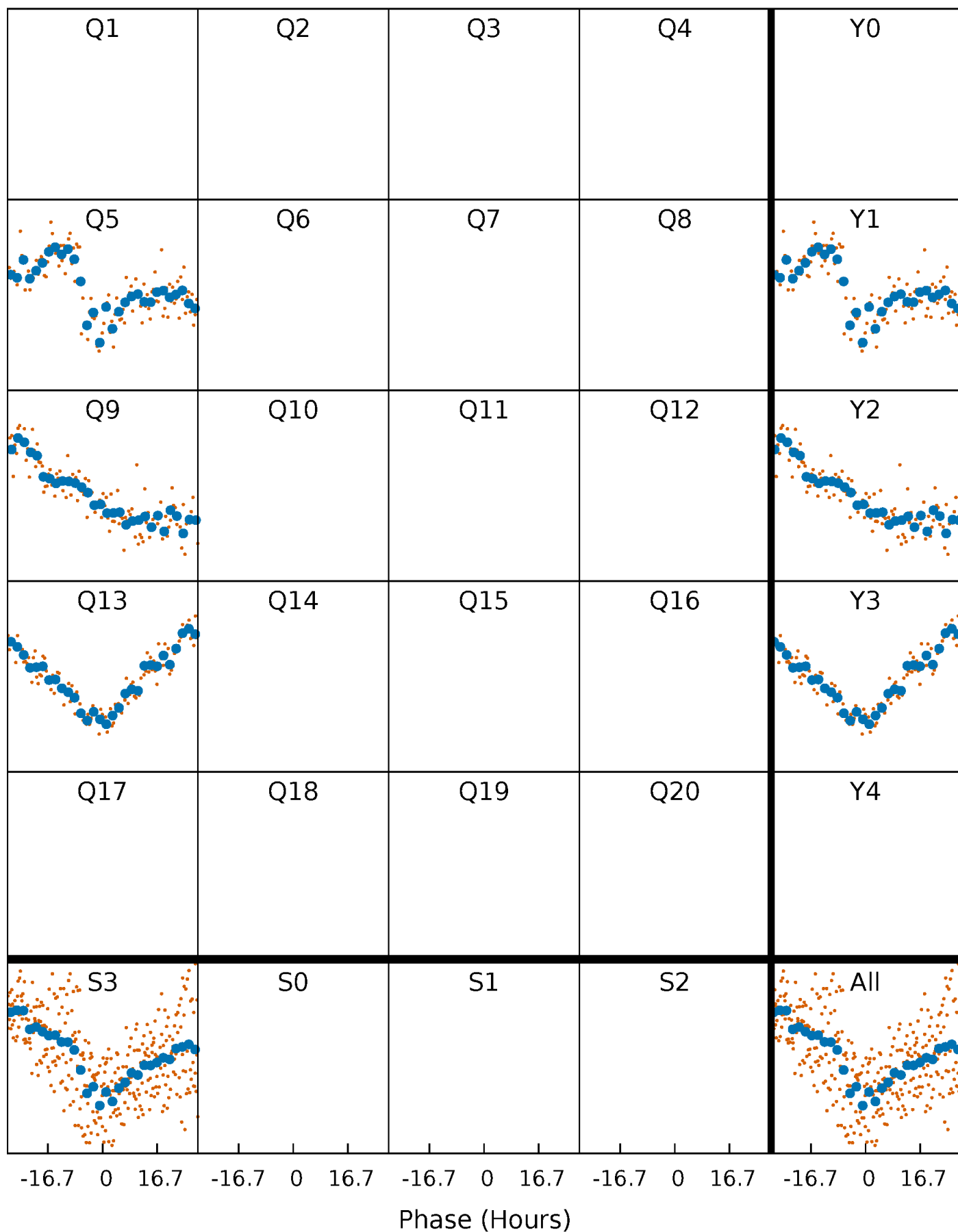


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



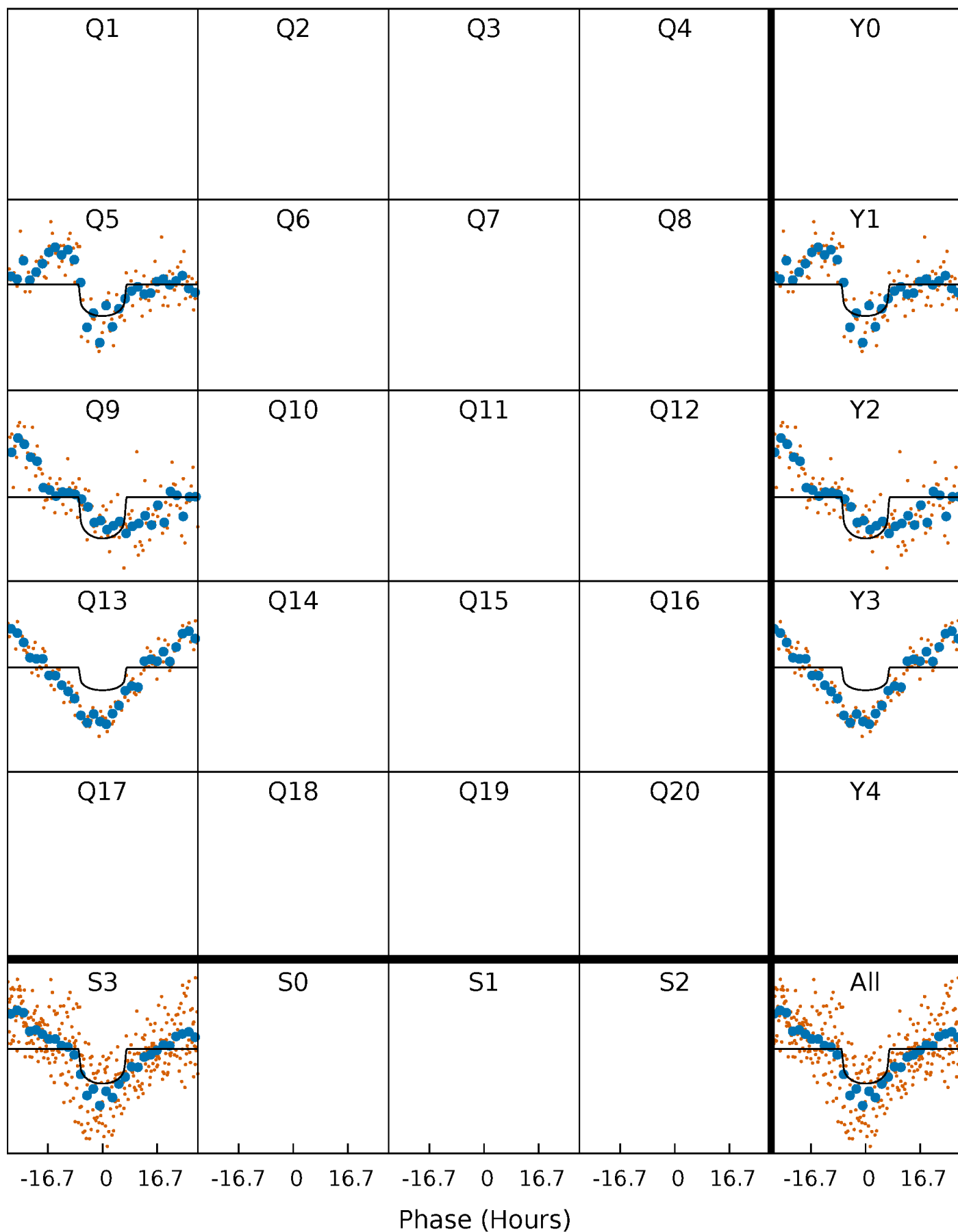
PDC Quarter-Phased Transit Curves

TCE 006941075-01 P=373.535198 Days $T_0=490.882358$ (BKJD)



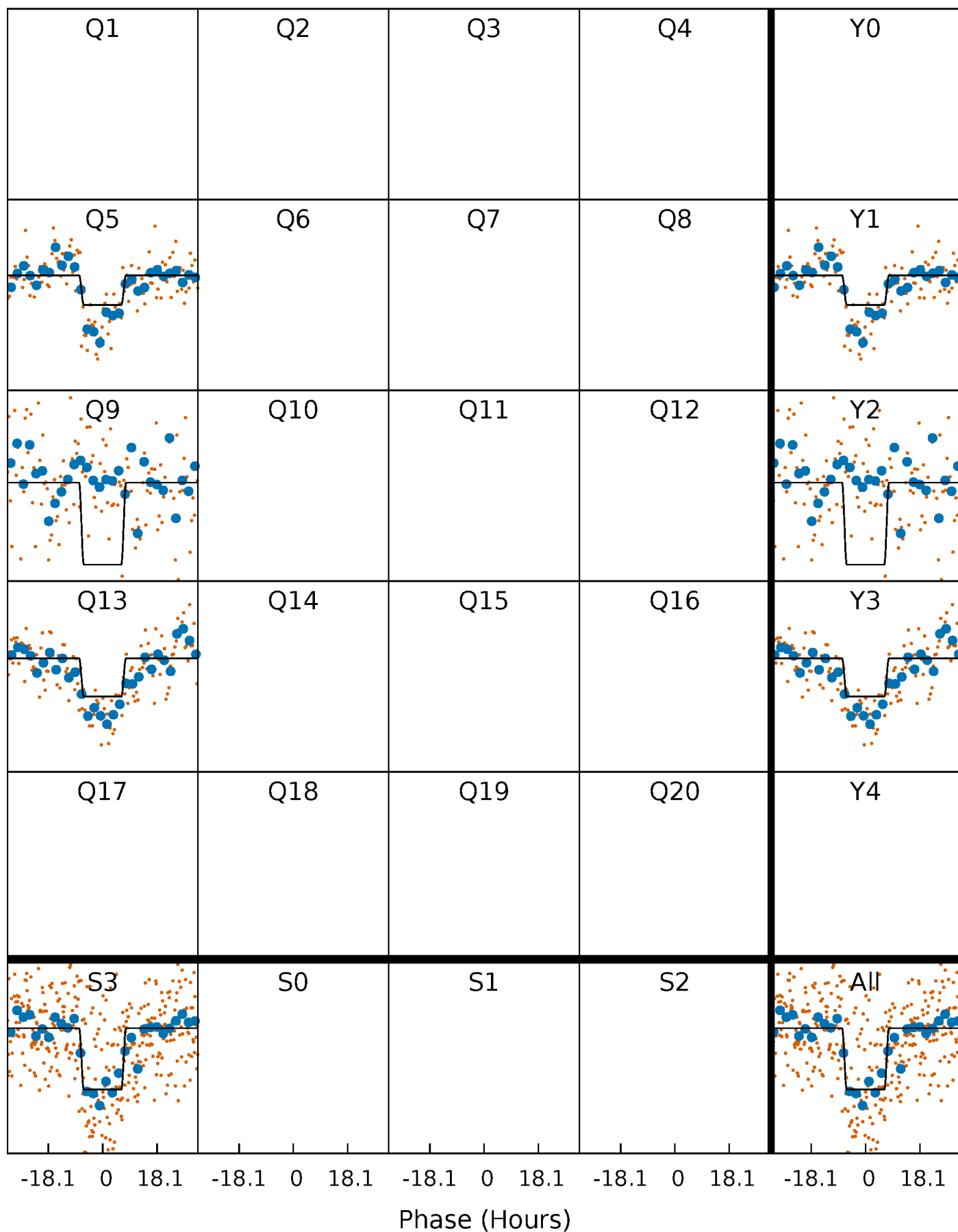
DV Quarter-Phased Transit Curves

TCE 006941075-01 P=373.535198 Days $T_0=490.882358$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

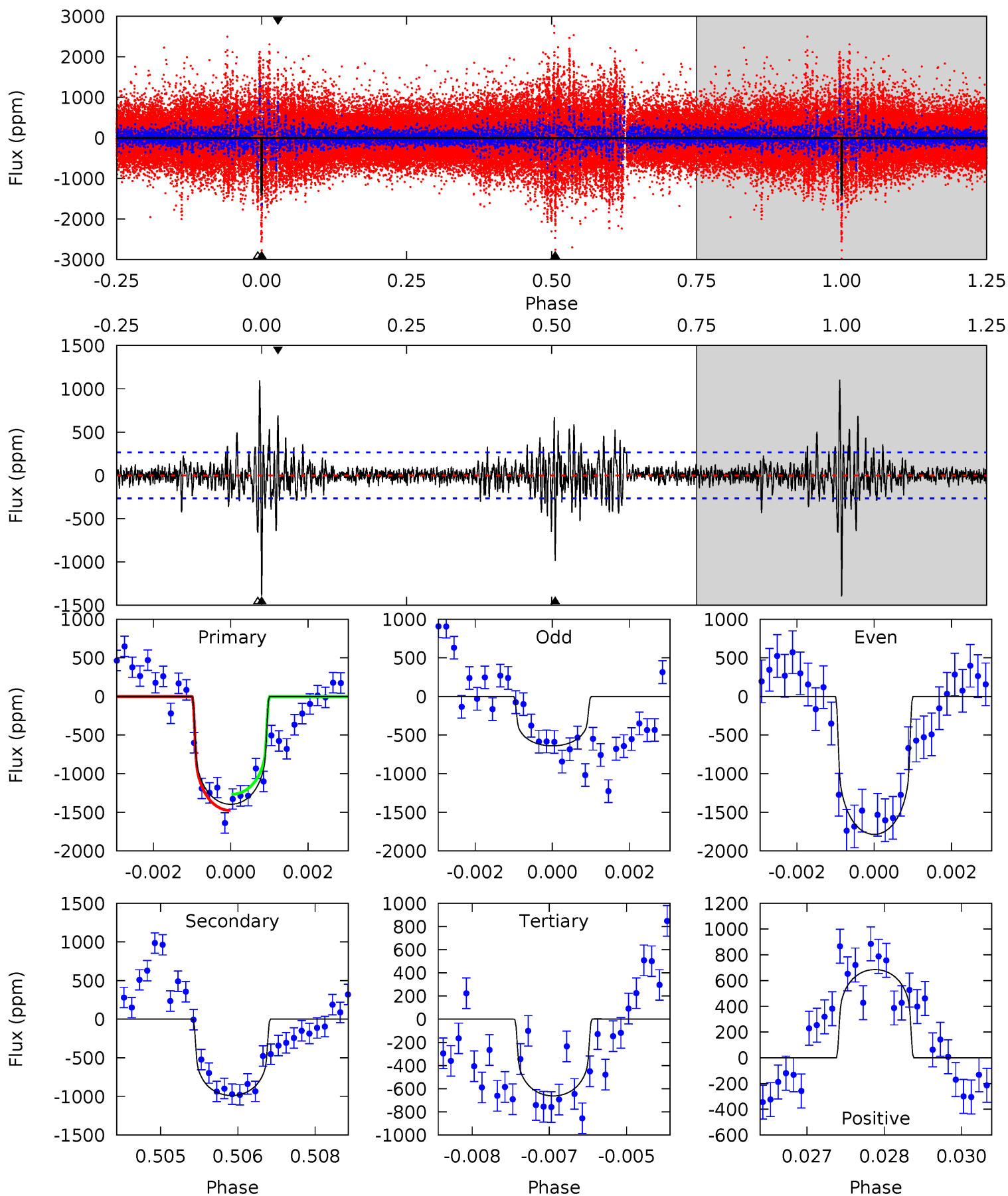
TCE 006941075-01 P=373.511854 Days $T_0=490.904413$ (BKJD)



DV Model-Shift Uniqueness Test

006941075-01, P = 373.535198 Days, E = 117.347160 Days

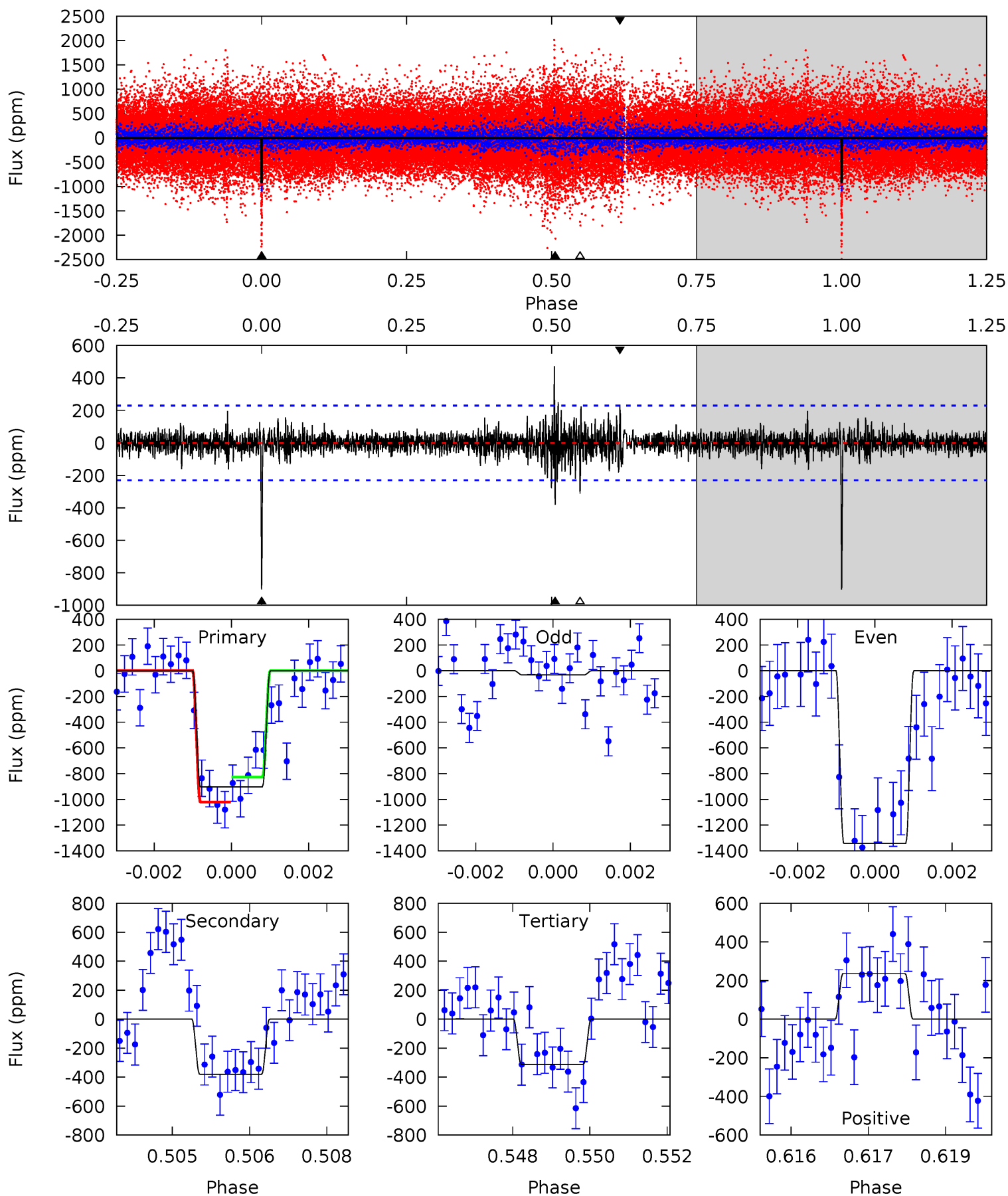
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.1	19.9	13.3	13.8	5.36	3.14	2.70	14.7	14.3	6.55	6.08	10.8	1.15	0.44	2.08



Alt Model-Shift Uniqueness Test

006941075-01, P = 373.511854 Days, E = 117.392559 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	8.86	7.26	5.51	5.35	3.13	1.15	13.8	15.5	1.59	3.35	14.4	0.70	0.34	2.24



Stellar Parameters For KIC 006941075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5580^{+166}_{-166}	$4.492^{+0.060}_{-0.168}$	$-0.040^{+0.300}_{-0.300}$	$0.895^{+0.234}_{-0.100}$	$0.907^{+0.102}_{-0.091}$	$1.782^{+0.535}_{-0.816}$
	+3%/-3%	+1%/-4%	+750%/-750%	+26%/-11%	+11%/-10%	+30%/-46%
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 006941075-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-988 ± 50	$2.94^{+1.24}_{-1.33}$	333^{+23}_{-15}	5805^{+2235}_{-819}	$61054^{+144926}_{-30648}$
Alt.	-380 ± 43	$3.05^{+1.26}_{-1.34}$	334^{+23}_{-16}	4637^{+1262}_{-597}	21786^{+43559}_{-11302}

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 $A_{obs} \gg 1.0$

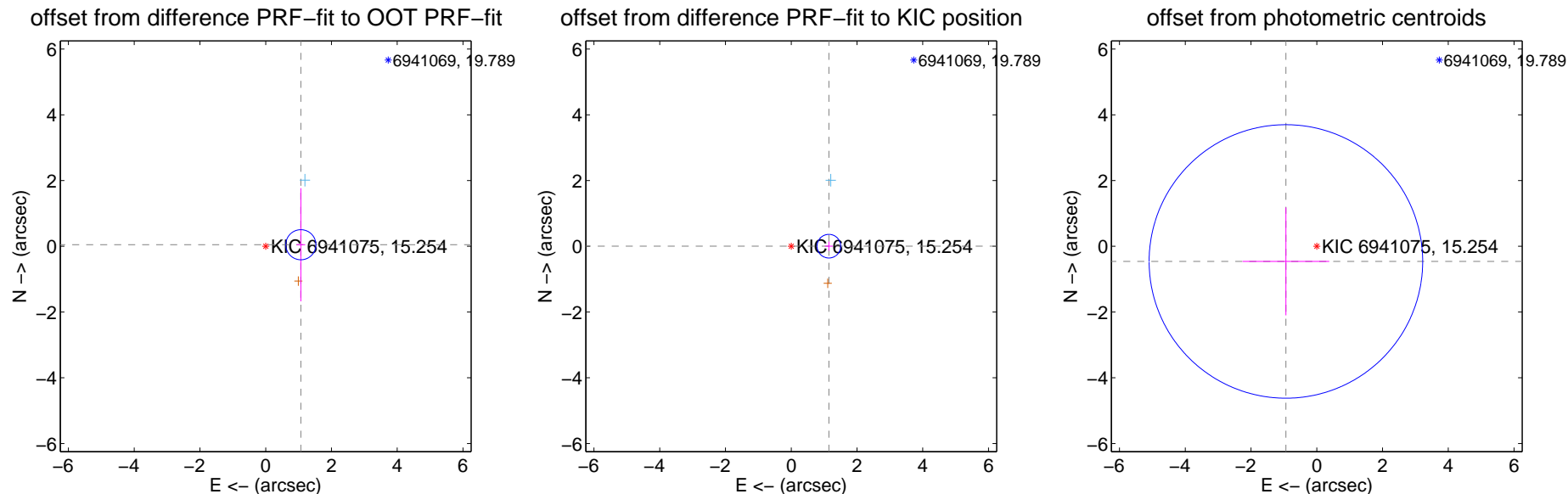
DV Centroid Data

Supplemental centroid analysis for 006941075-01. Kepler magnitude: 15.25. Transit SNR 9.56

There are 1 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.070 ± 0.153	7.01	-1.069 ± 0.132	0.048 ± 1.723
PRF-fit source offset from KIC position	1.145 ± 0.120	9.54	-1.145 ± 0.120	0.004 ± 0.137
photometric centroid source offset	1.05 ± 1.39	0.75	0.94 ± 1.32	-0.46 ± 1.64

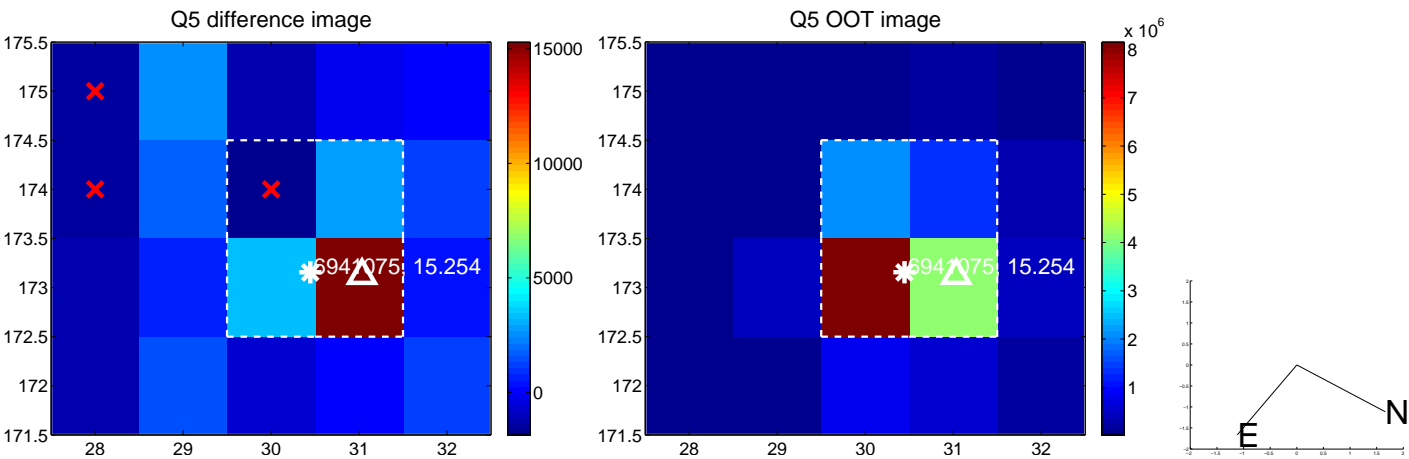


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

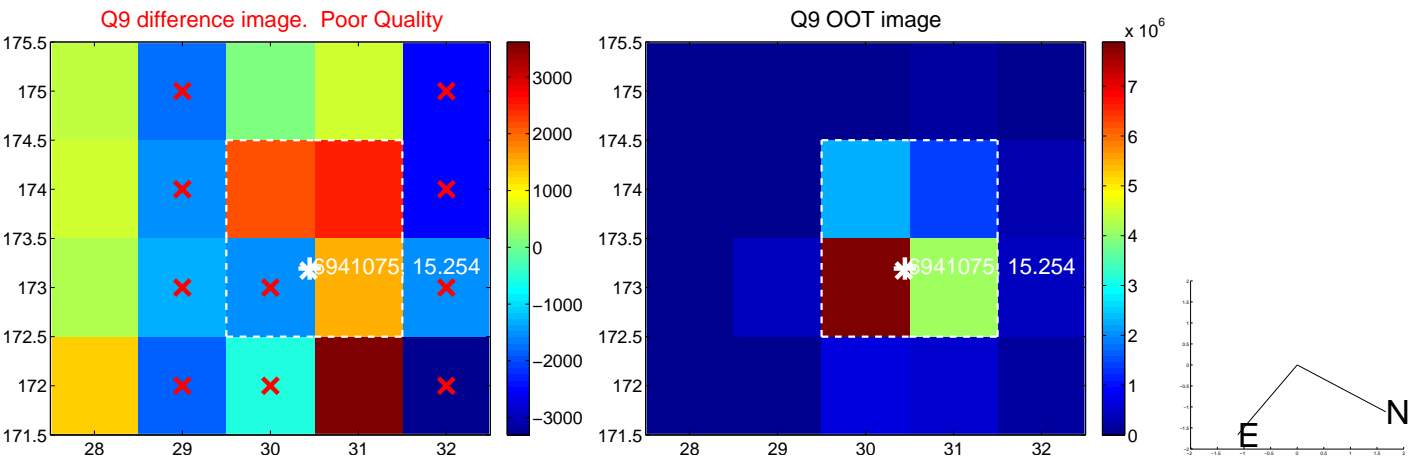
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



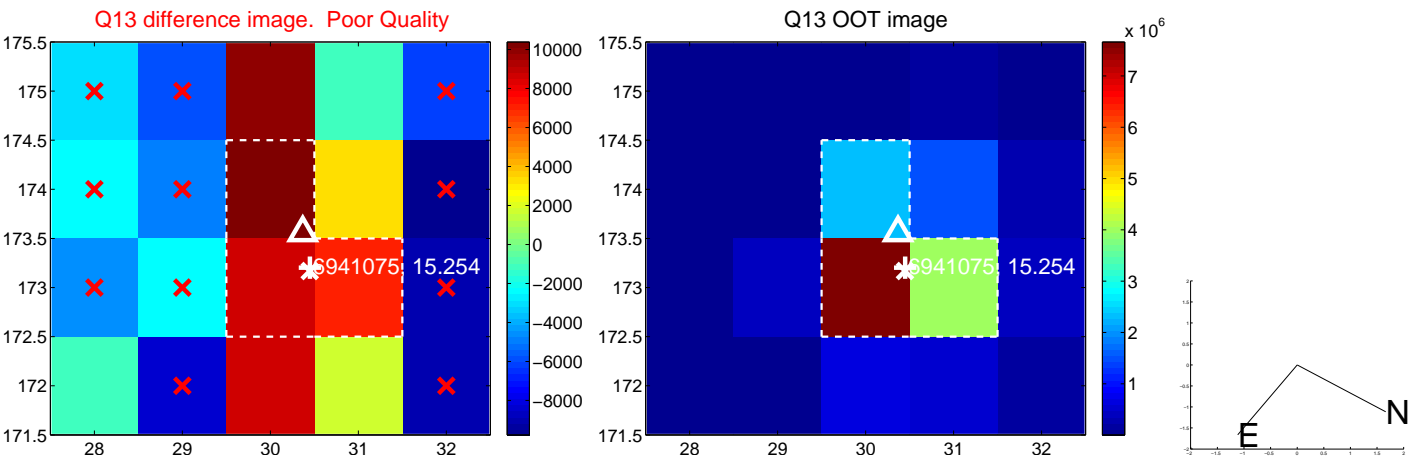
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



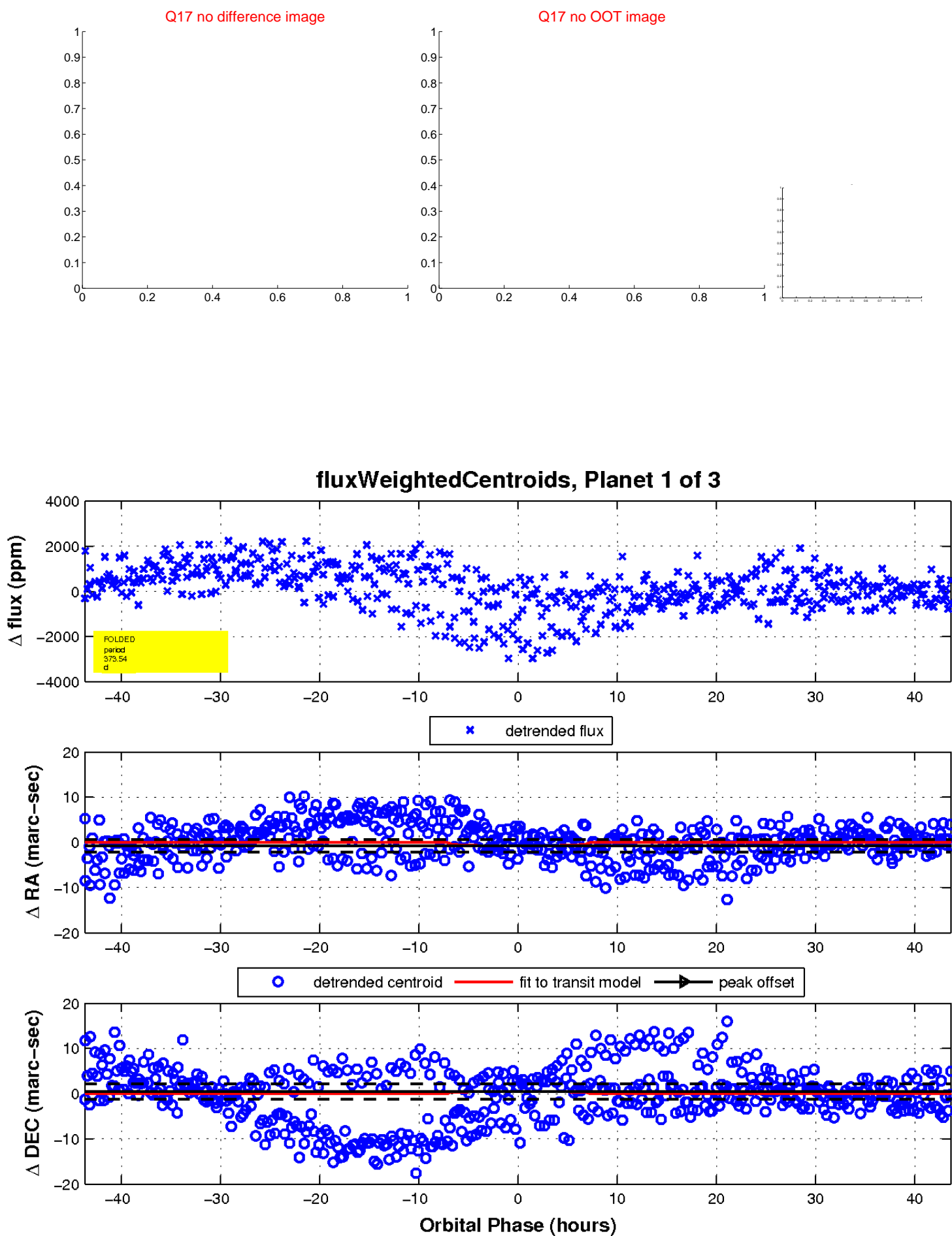
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

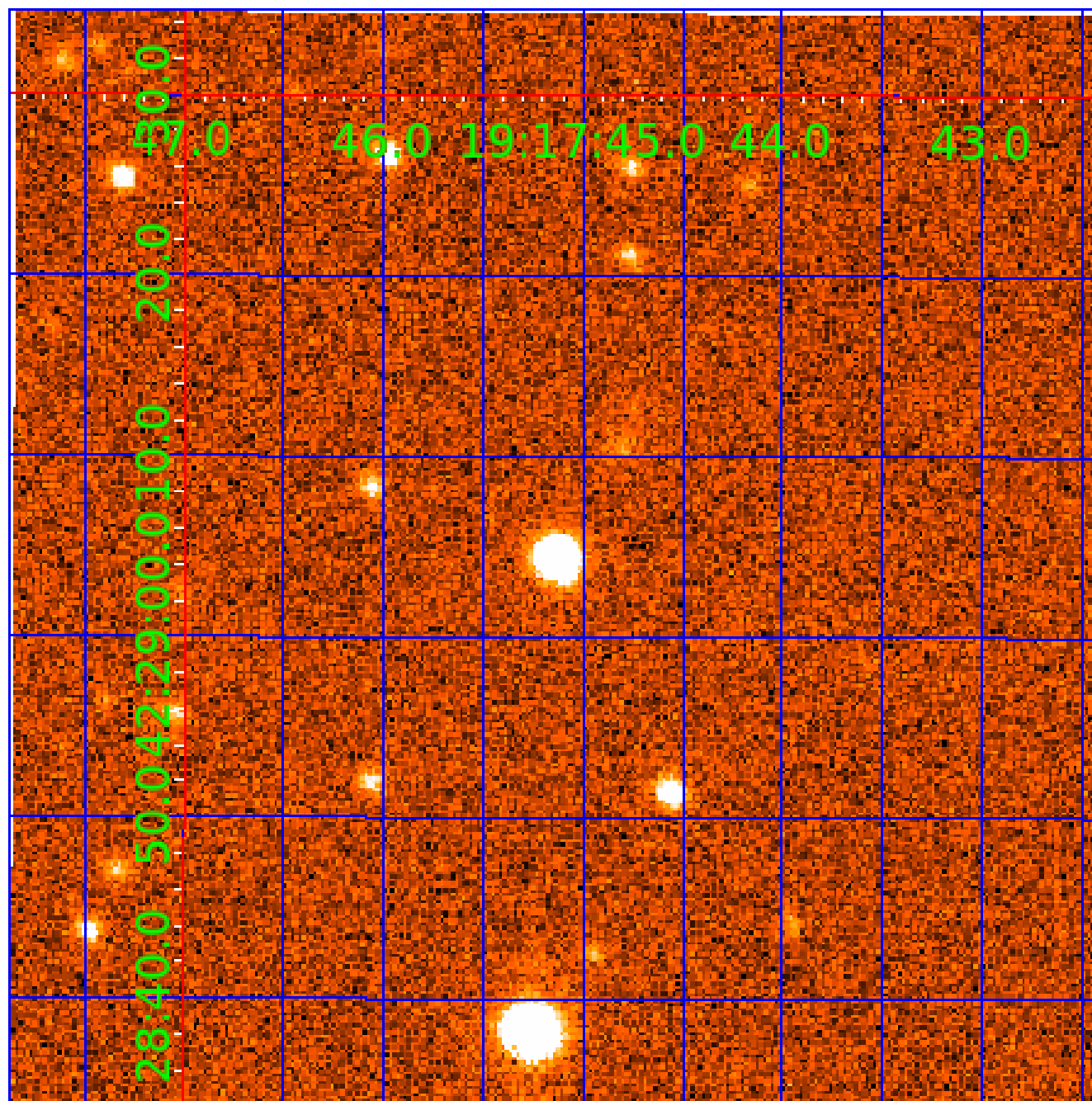


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006941075

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})
006941075-01	OBS	No	373.535198	490.882358	987.7	14.574	10.6	9.6	0.90	5580	2.86	0.72
006941075-02	OBS	No	372.079378	307.742600	1405.0	16.065	9.5	9.3	0.90	5580	6.53	0.72
006941075-03	OBS	No	373.718867	305.924336	1157.8	24.424	8.7	7.3	0.90	5580	5.97	0.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006941075-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006941075-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—CENT_FEW_DIFFS
006941075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—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.

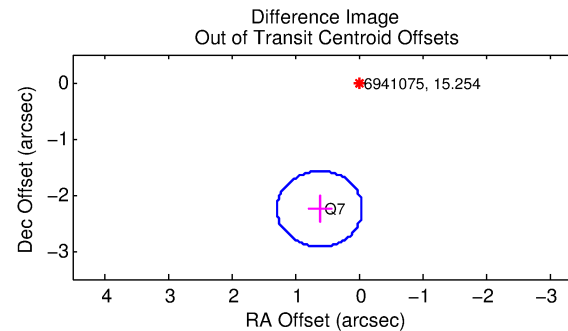
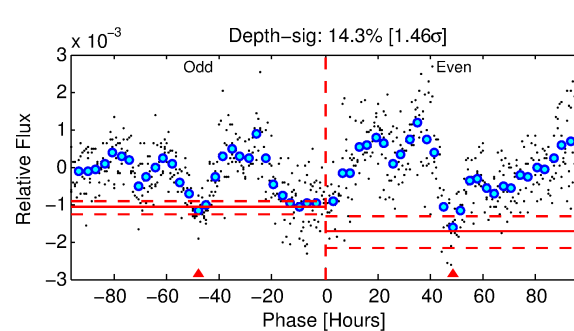
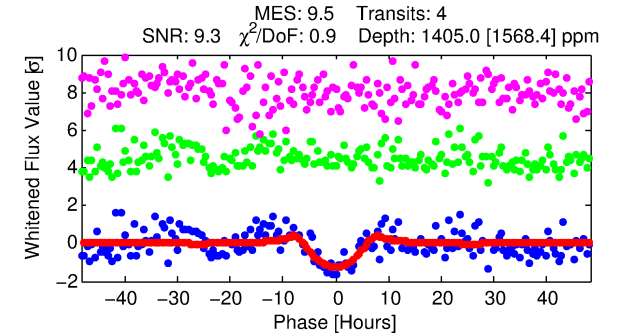
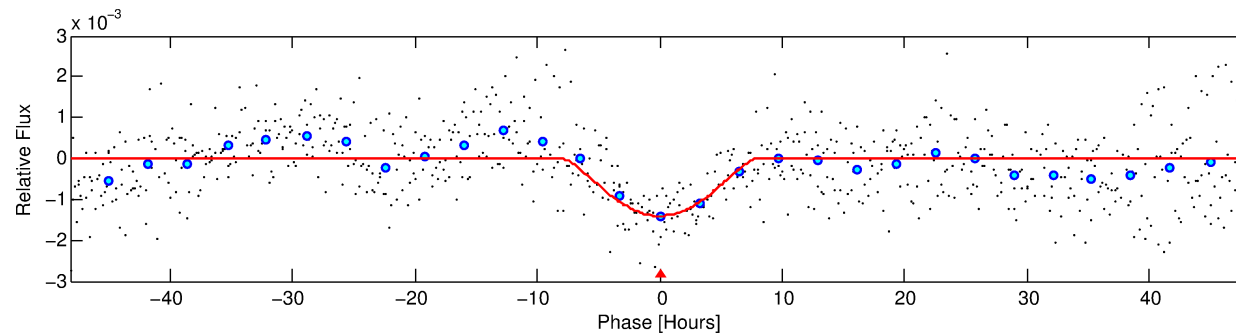
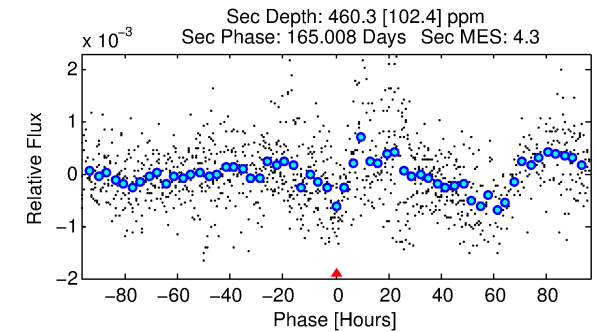
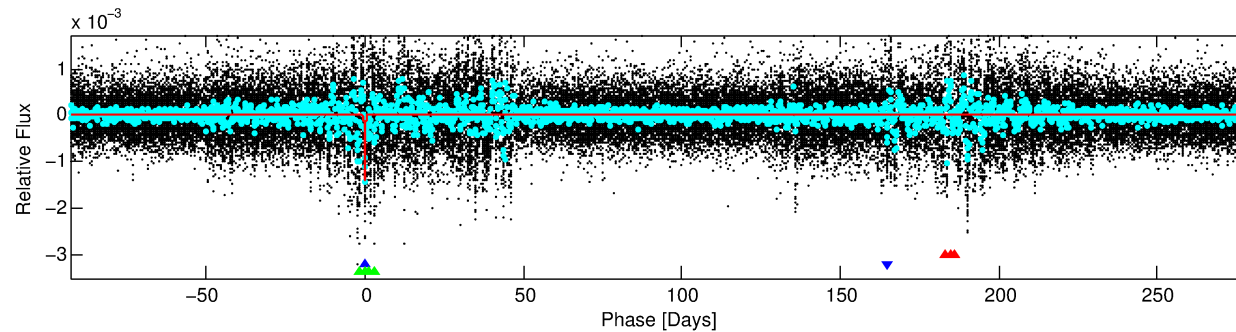
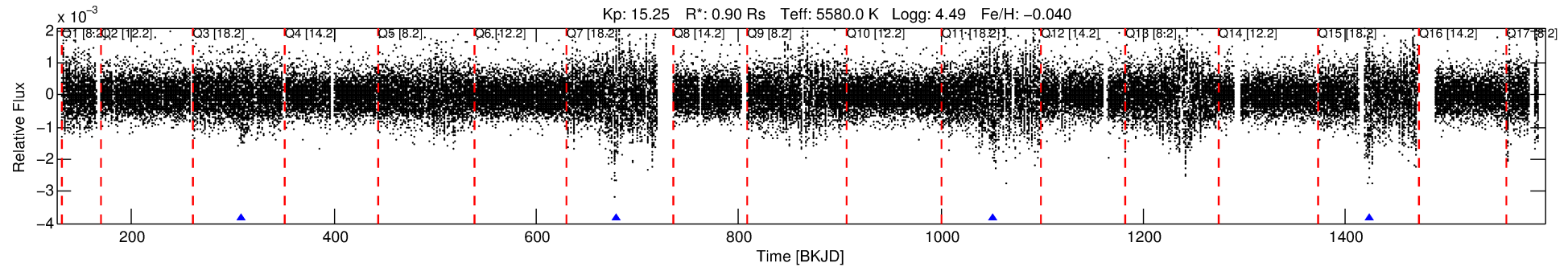
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006941075-02

No Significant Match Found

DV One-Page Summary

KIC: 6941075 Candidate: 2 of 3 Period: 372.079 d



DV Fit Results:

Period = 372.07938 [0.01399] d
Epoch = 307.7426 [0.0254] BKJD
Rp/R* = 0.0669 [0.1726]
a/R* = 65.78 [37.87]
b = 1.00 [0.20]
Seff = 0.72 [0.24]
Teq = 235 [20] K
Rp = 6.53 [16.95] Re
a = 0.9802 [0.2125] AU
Ag = 5707.09 [29552.95] [0.19σ]
Teff = 3161 [4086] K [0.72σ]

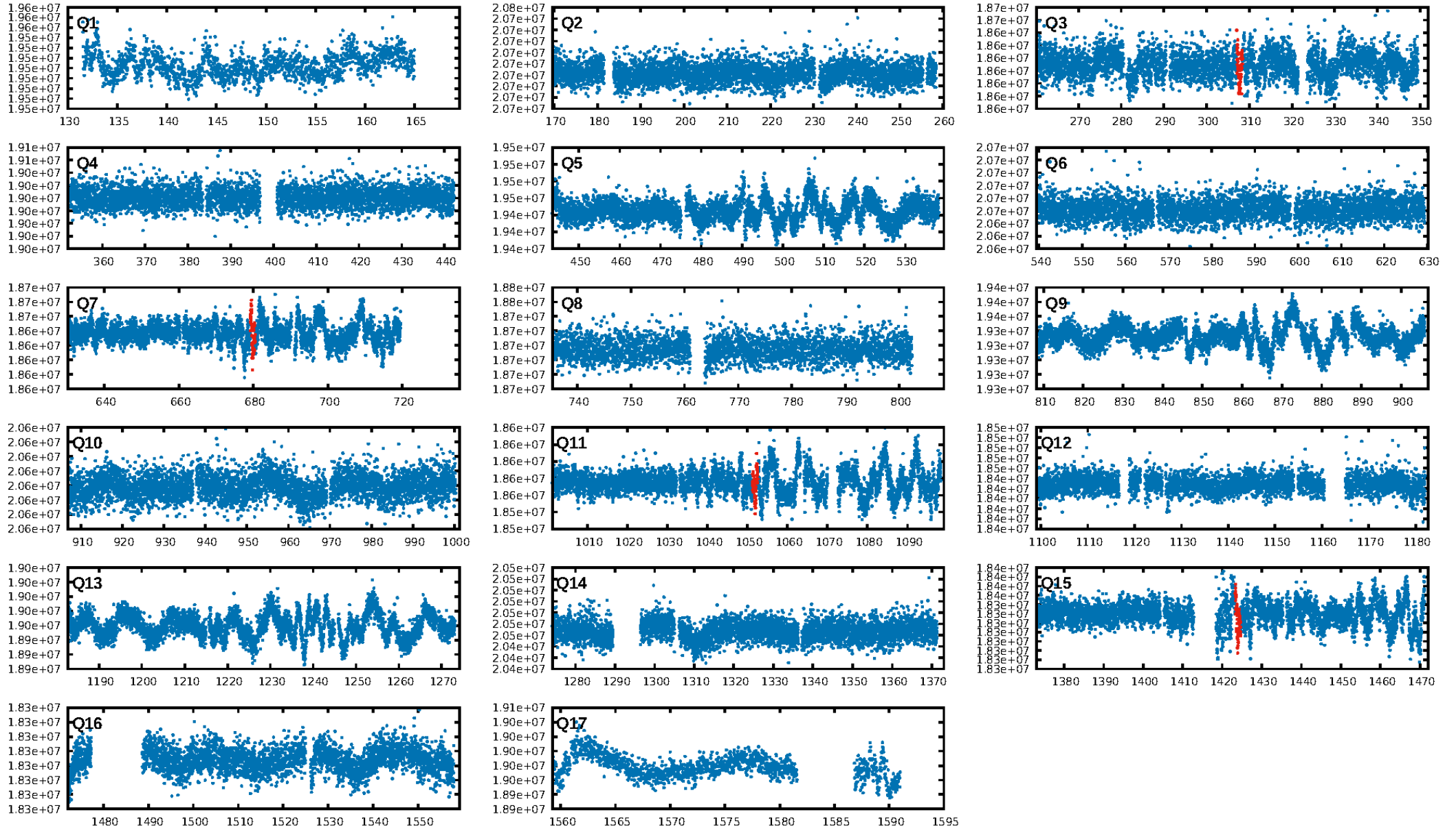
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 89.3% [1.61σ]
ModelChiSquare2-sig: 20.3%
ModelChiSquareGoF-sig: 100.0%
Bootstrap-pfa: 1.25e-11
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.168
Centroid-sig: 0.0%
Centroid-so: 5.494 arcsec [3.21σ]
OotOffset-rm: 2.335 arcsec [10.43σ]
KicOffset-rm: 2.349 arcsec [10.52σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.50 [2/4]

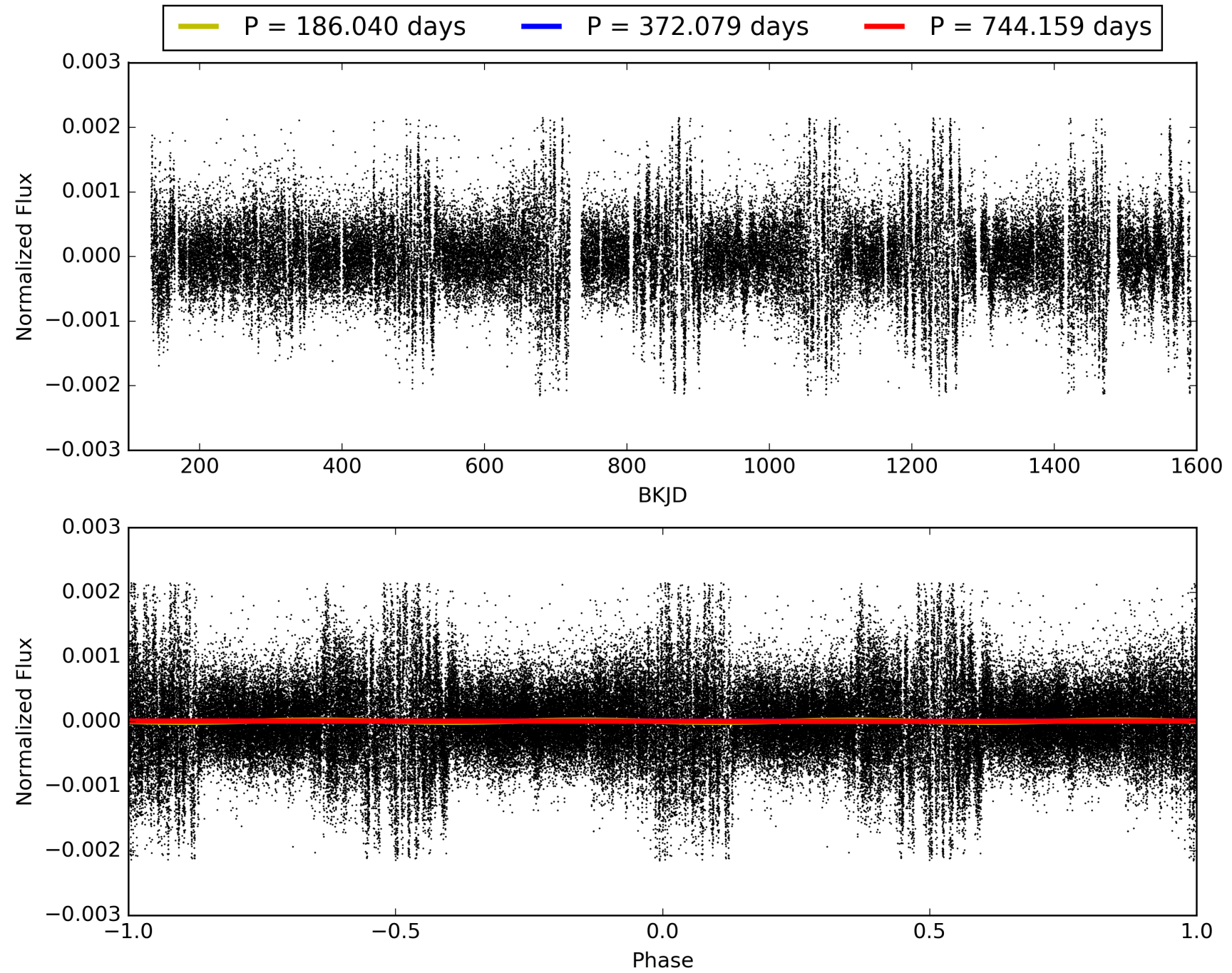
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:17:34 Z

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

TCE 006941075-02, PDC Light Curves

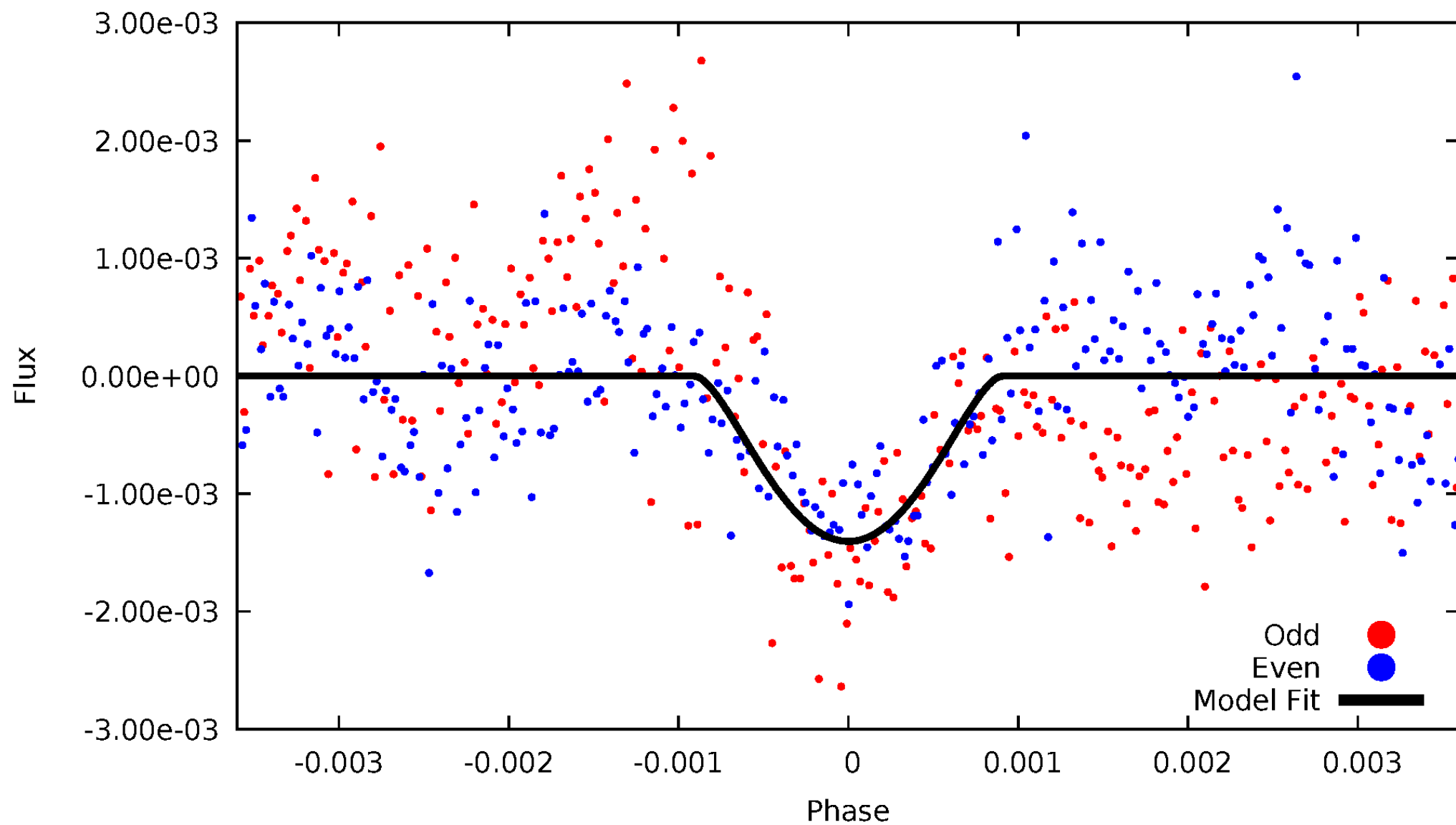


TCE 006941075-02



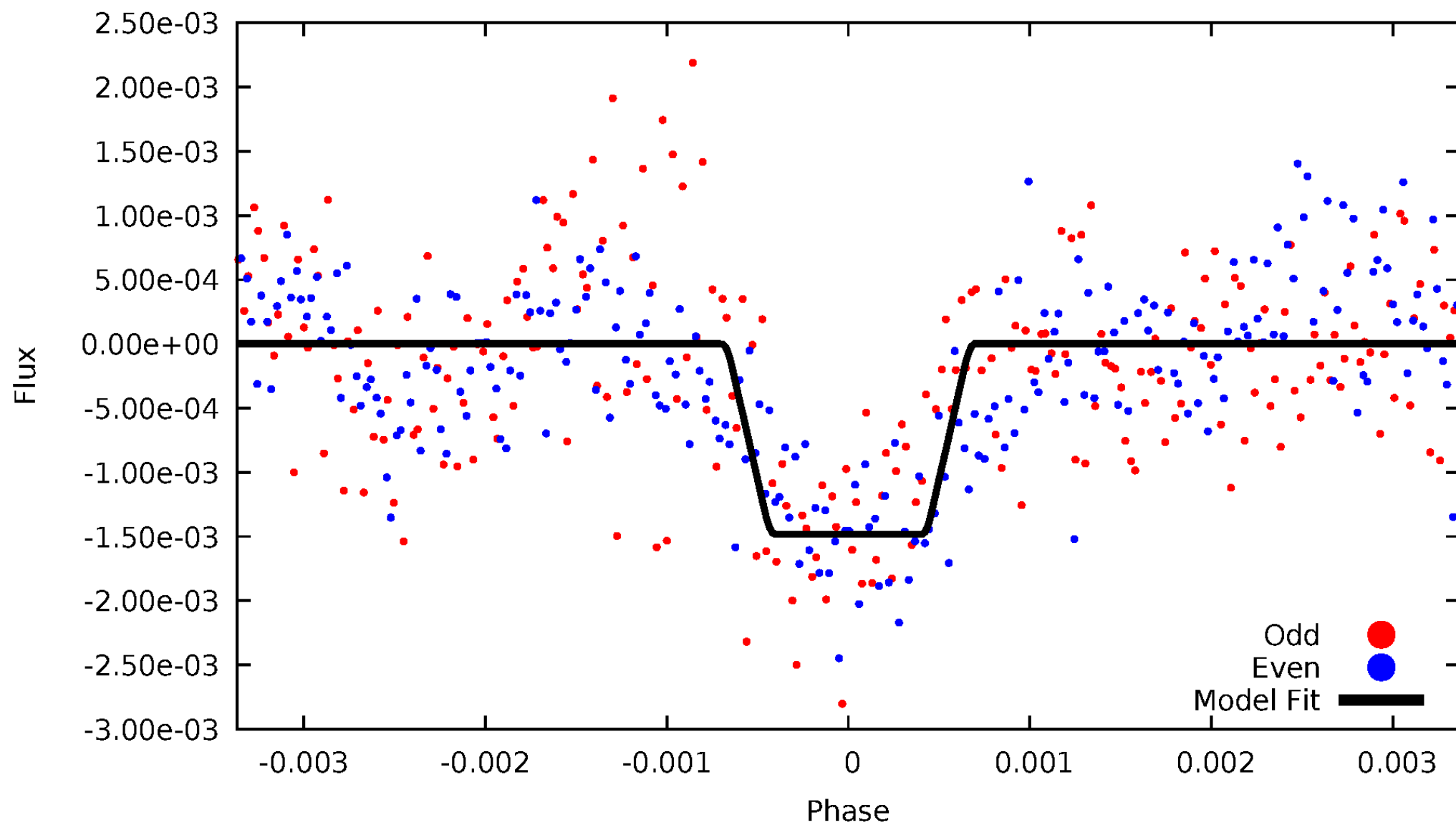
DV Odd/Even

TCE 006941075-02



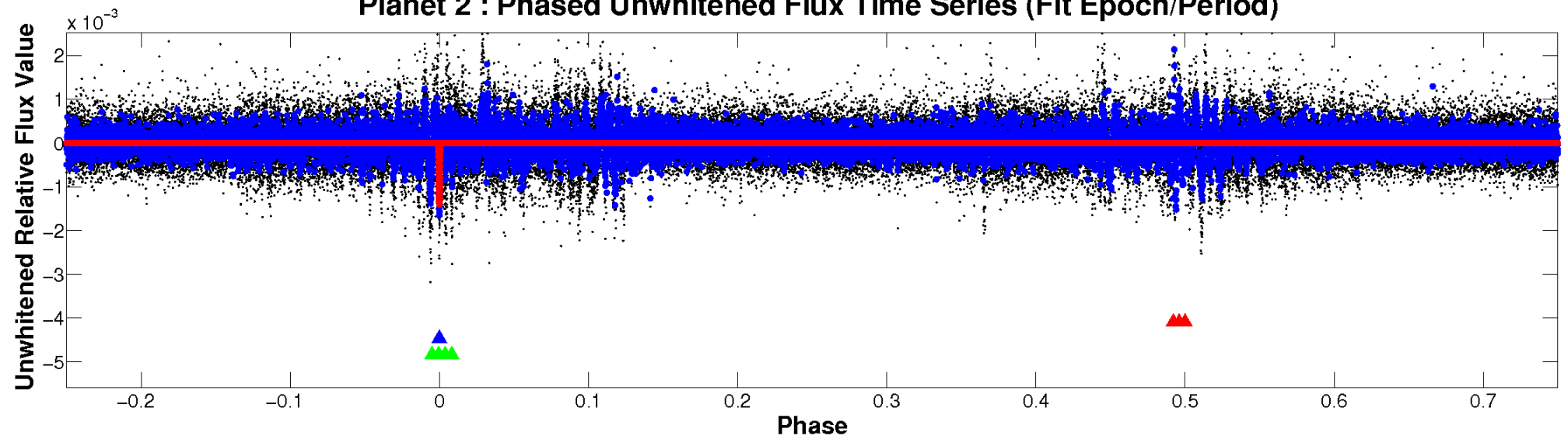
ALT Odd/Even

TCE 006941075-02

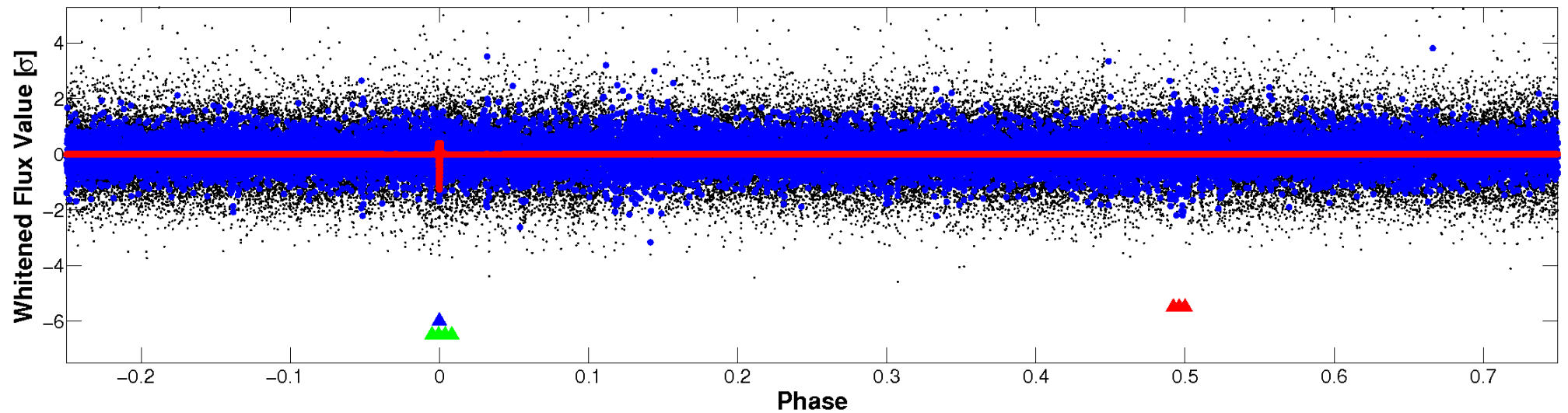


Non-Whitened Vs. Whitened Light Curve

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 006941075-02 P=372.079378 Days $T_0=307.742600$ (BKJD)



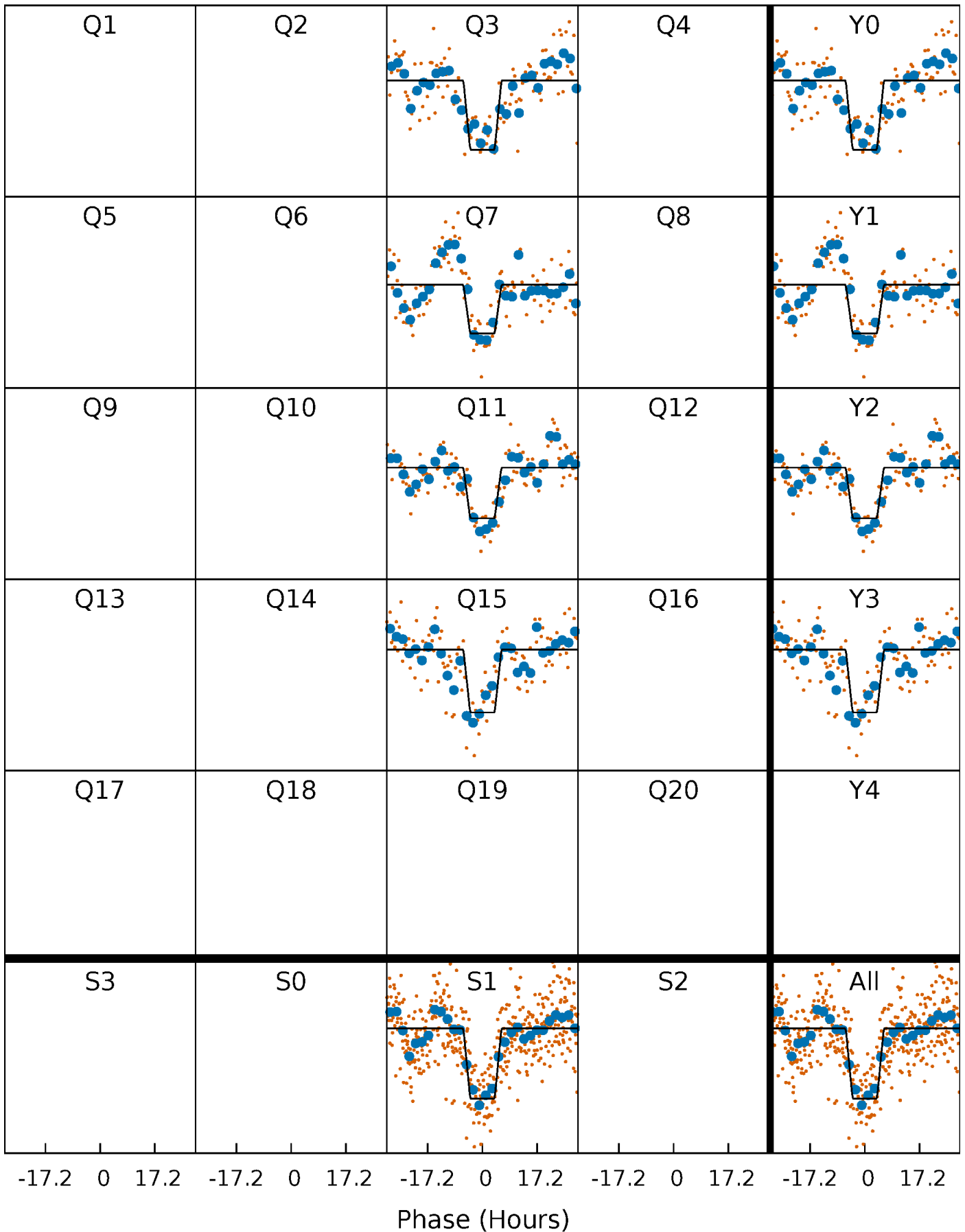
DV Quarter-Phased Transit Curves

TCE 006941075-02 P=372.079378 Days $T_0=307.742600$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

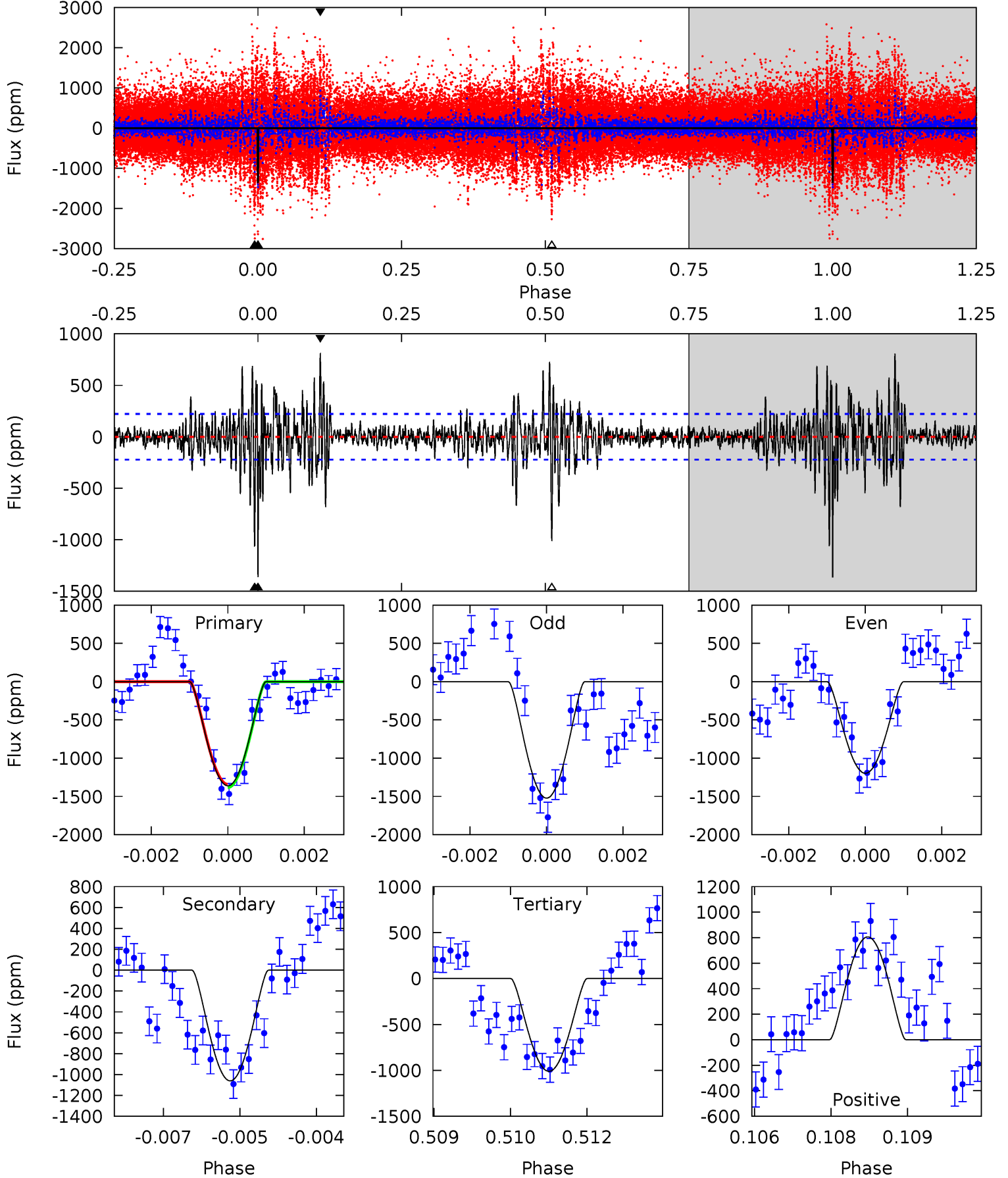
TCE 006941075-02 P=372.101939 Days $T_0=307.717050$ (BKJD)



DV Model-Shift Uniqueness Test

006941075-02, $P = 372.079378$ Days, $E = 307.742600$ Days

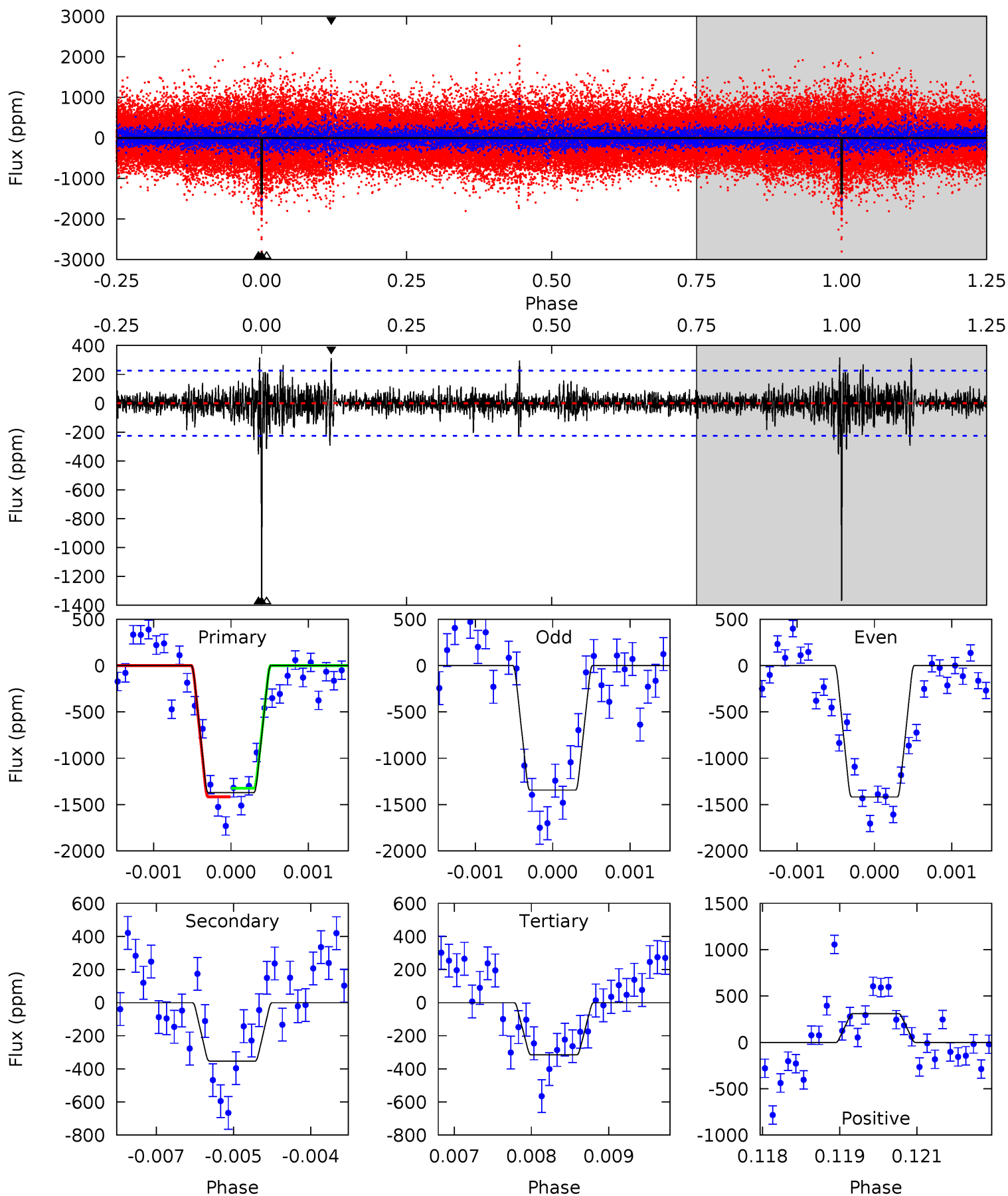
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.8	25.5	24.3	19.4	5.34	3.12	3.74	8.43	13.4	1.21	6.13	3.90	1.07	0.37	0.49



Alt Model-Shift Uniqueness Test

006941075-02, P = 372.101939 Days, E = 307.717050 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.7	8.43	7.52	7.39	5.40	3.20	1.30	25.2	25.3	0.91	1.04	0.89	1.03	0.19	1.11



Stellar Parameters For KIC 006941075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5580^{+166}_{-166}	$4.492^{+0.060}_{-0.168}$	$-0.040^{+0.300}_{-0.300}$	$0.895^{+0.234}_{-0.100}$	$0.907^{+0.102}_{-0.091}$	$1.782^{+0.535}_{-0.816}$
	+3%/-3%	+1%/-4%	+750%/-750%	+26%/-11%	+11%/-10%	+30%/-46%
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 006941075-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1061 ± 42	$14.39^{+14.99}_{-9.14}$	333^{+22}_{-14}	3224^{+1346}_{-583}	2582^{+17723}_{-1938}
Alt.	-354 ± 42	$13.46^{+13.10}_{-9.20}$	335^{+22}_{-16}	2841^{+1152}_{-456}	1025^{+8959}_{-767}

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 $A_{obs} \gg 1.0$

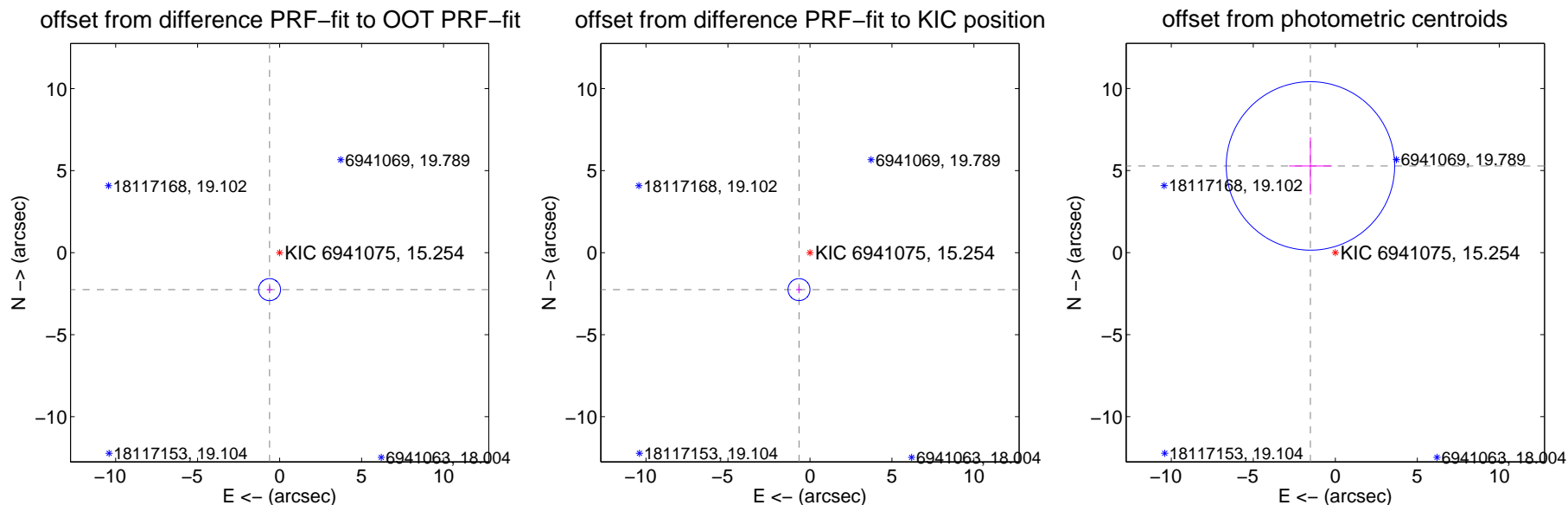
DV Centroid Data

Supplemental centroid analysis for 006941075-02. Kepler magnitude: 15.25. Transit SNR 9.28

There are 1 quarters with good PRF difference image offsets

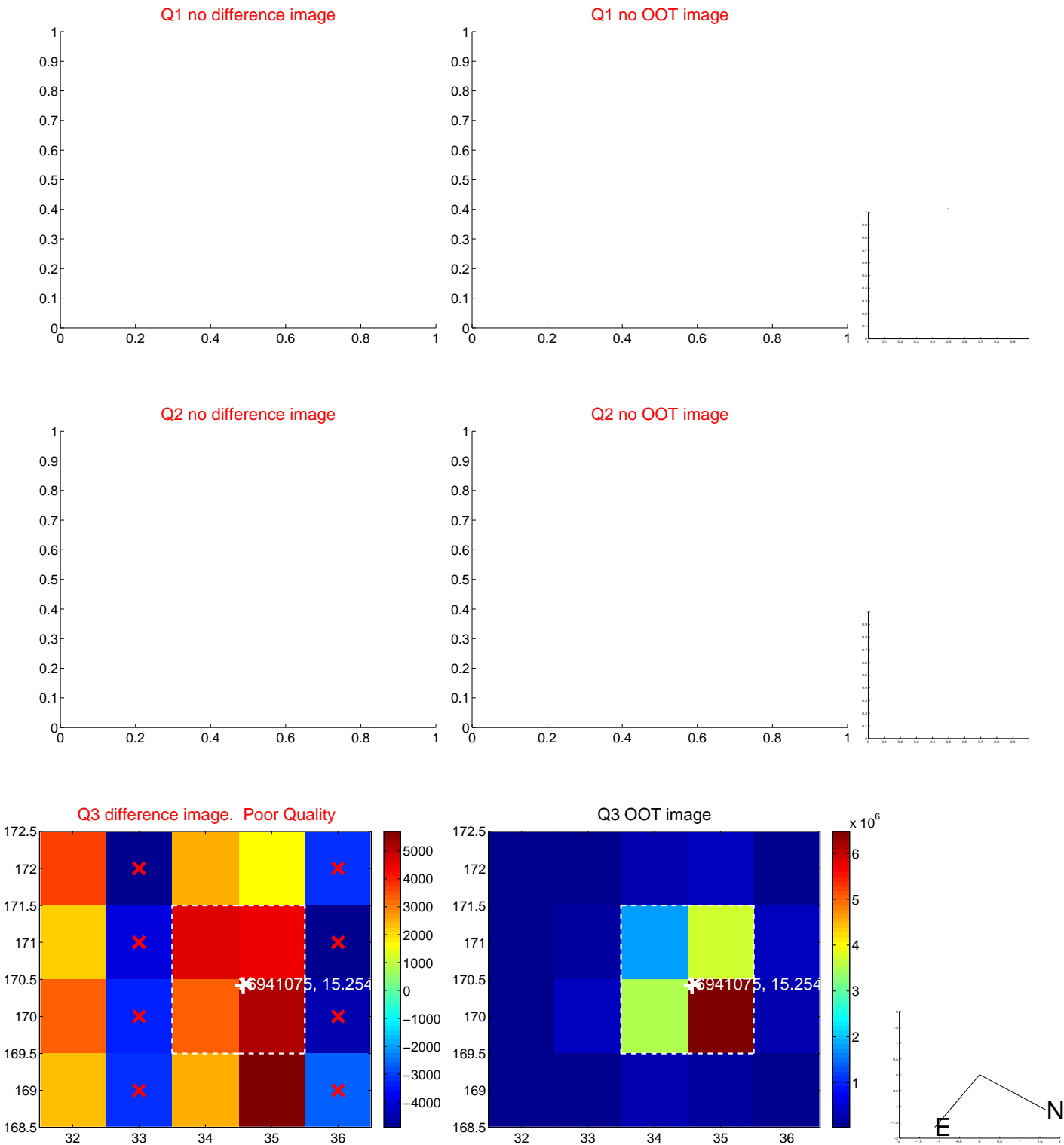
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.335 ± 0.224	10.43	0.614 ± 0.175	-2.253 ± 0.227
PRF-fit source offset from KIC position	2.349 ± 0.223	10.52	0.667 ± 0.175	-2.253 ± 0.227
photometric centroid source offset	5.49 ± 1.71	3.21	1.52 ± 1.31	5.28 ± 1.74

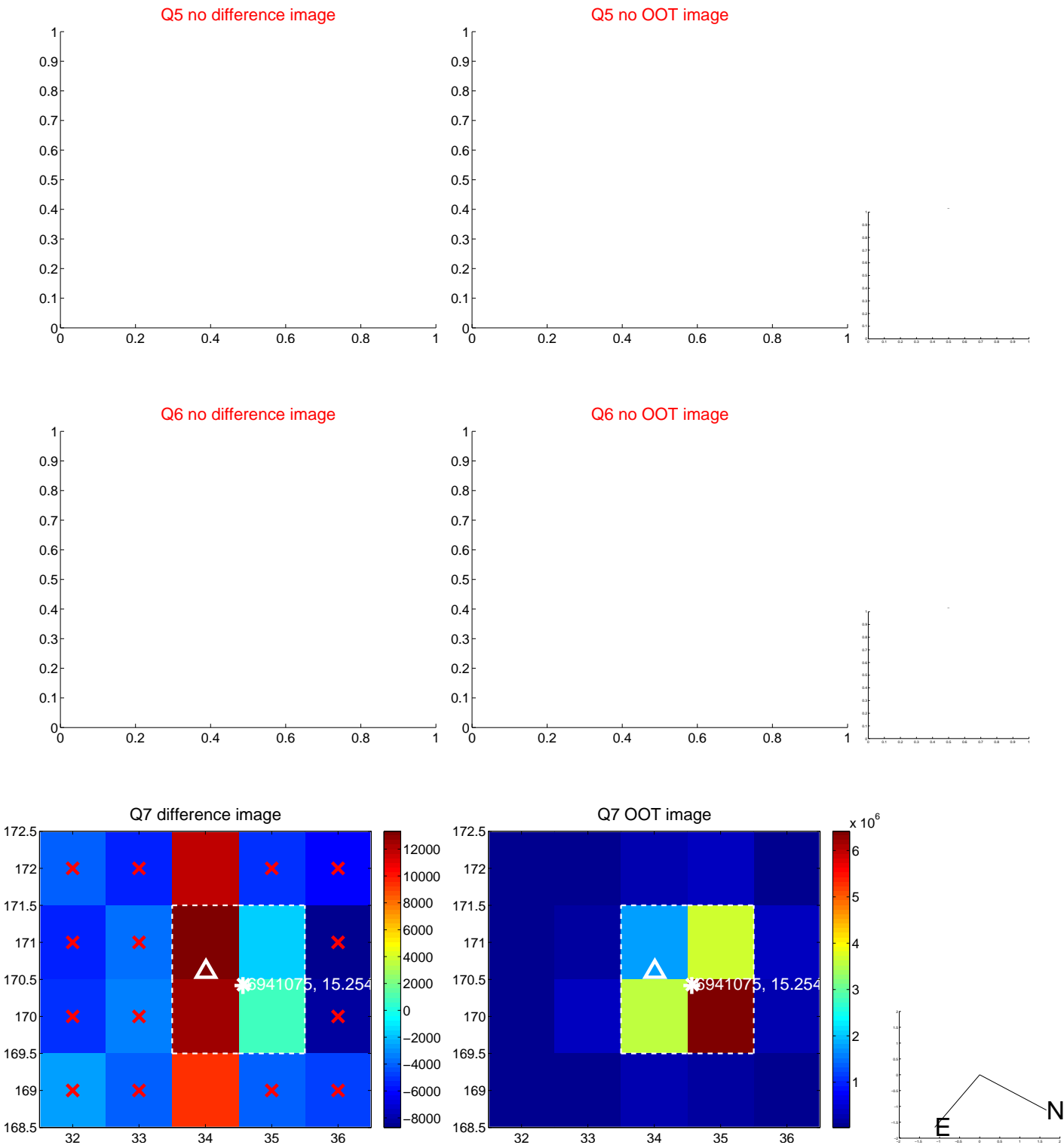


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

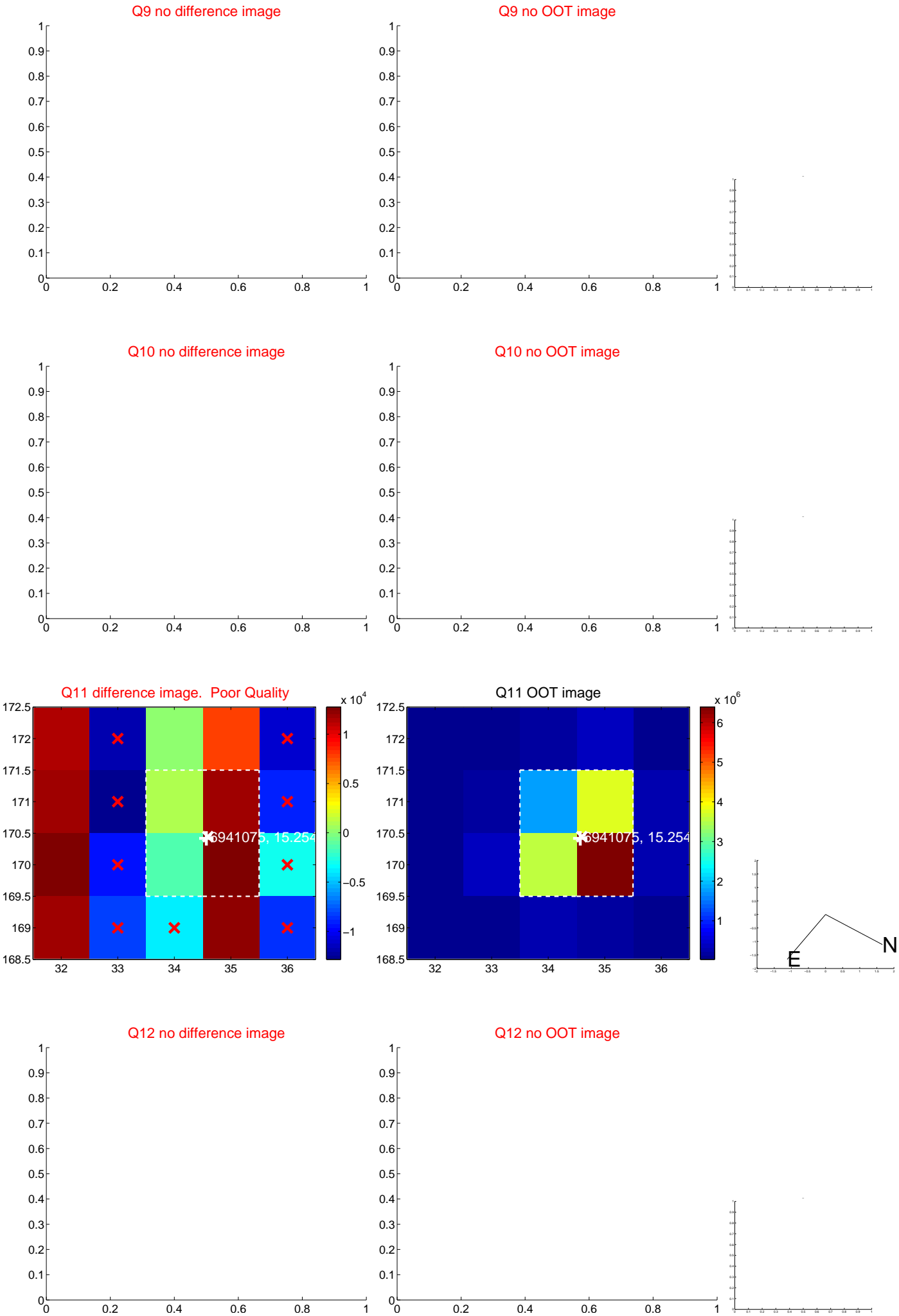
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



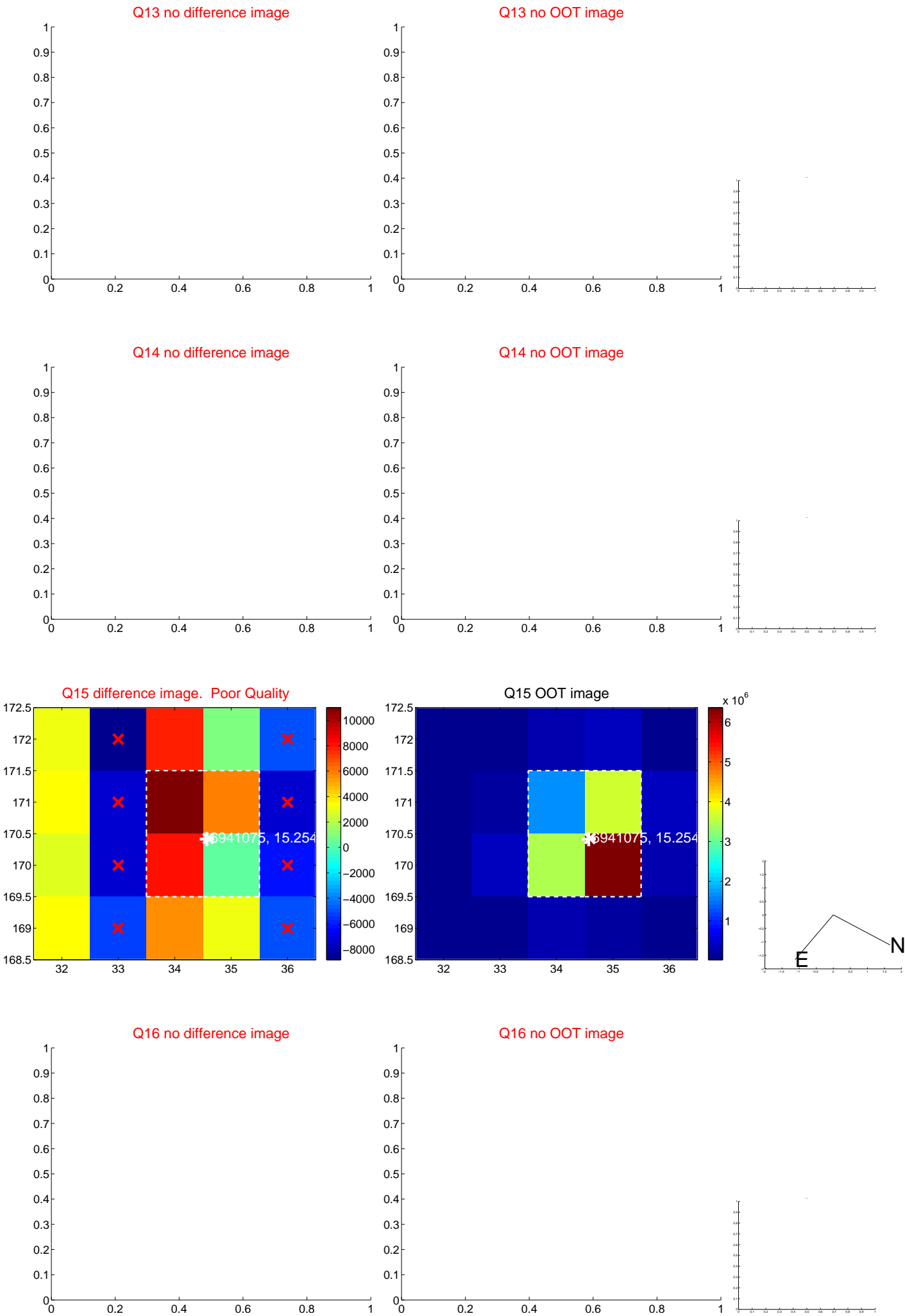
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



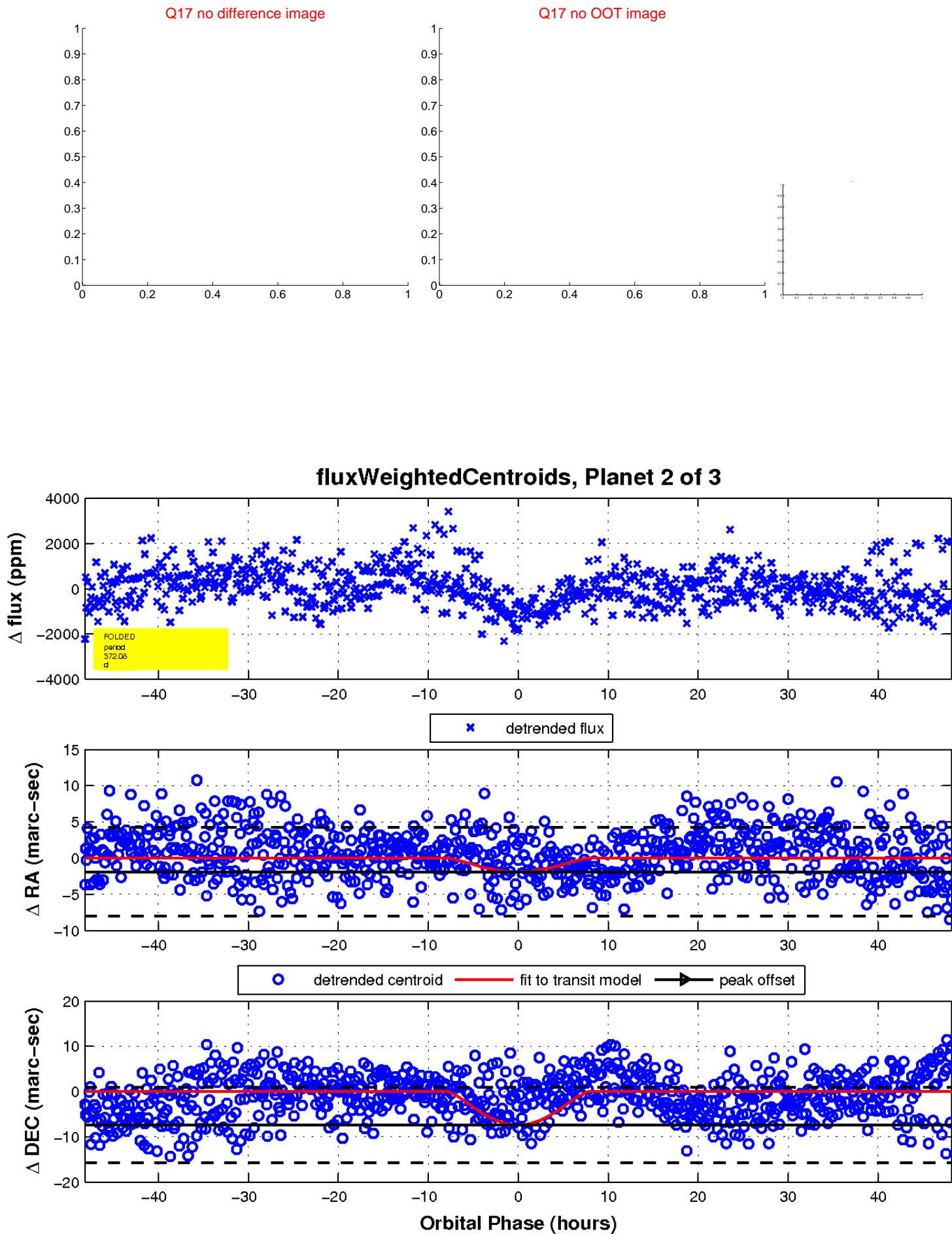
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

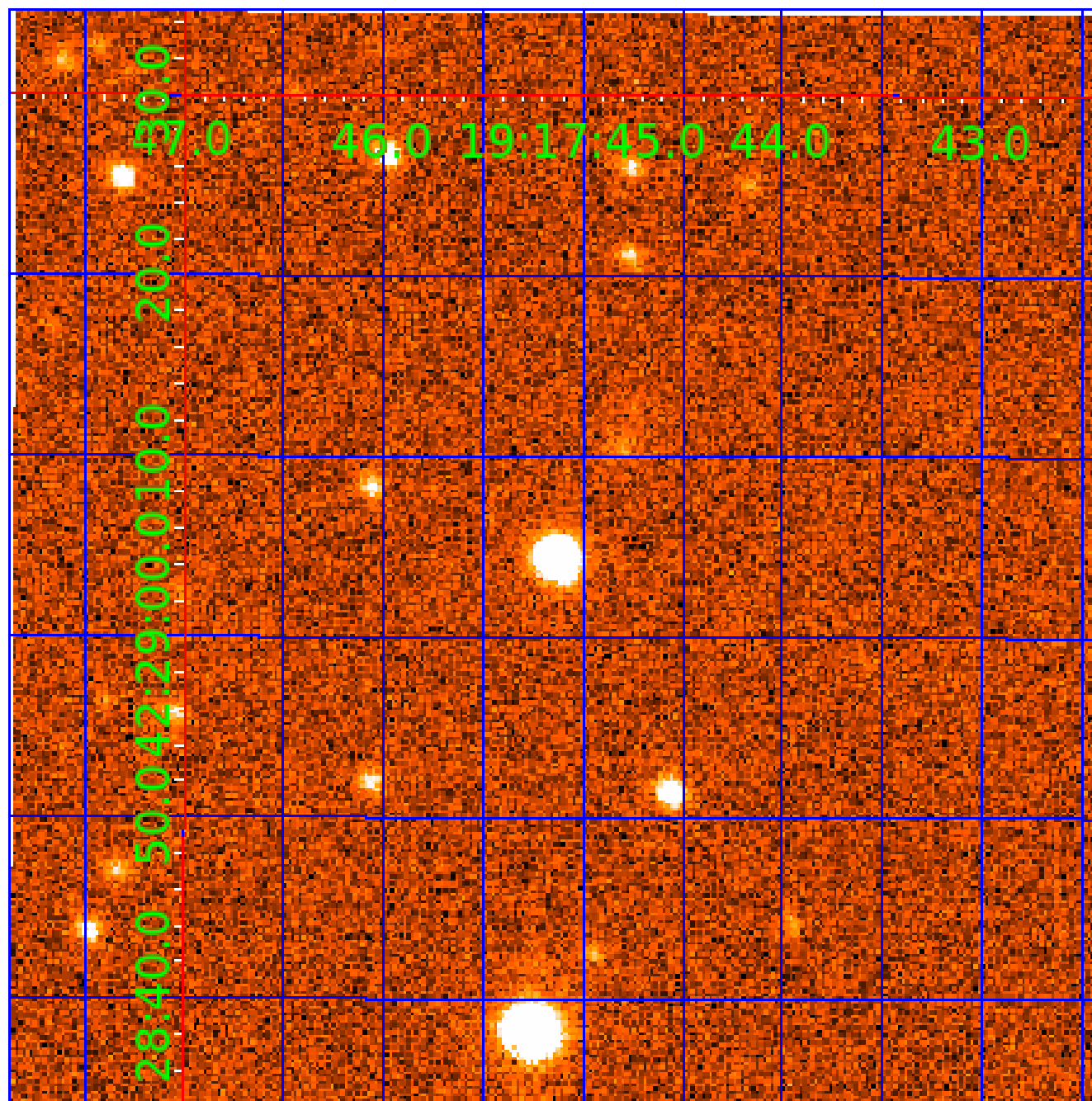


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006941075

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})
006941075-01	OBS	No	373.535198	490.882358	987.7	14.574	10.6	9.6	0.90	5580	2.86	0.72
006941075-02	OBS	No	372.079378	307.742600	1405.0	16.065	9.5	9.3	0.90	5580	6.53	0.72
006941075-03	OBS	No	373.718867	305.924336	1157.8	24.424	8.7	7.3	0.90	5580	5.97	0.72

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006941075-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006941075-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—ALL_TRANS_CHASES—CENT_FEW_DIFFS
006941075-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—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.

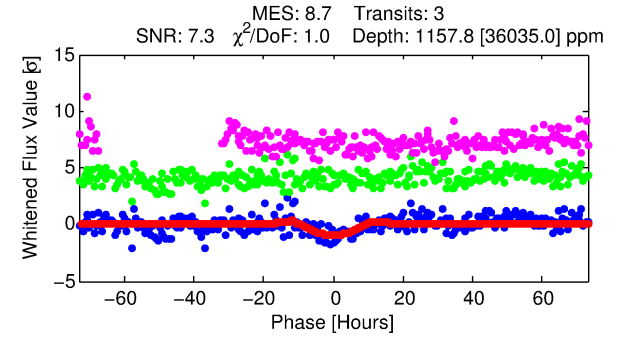
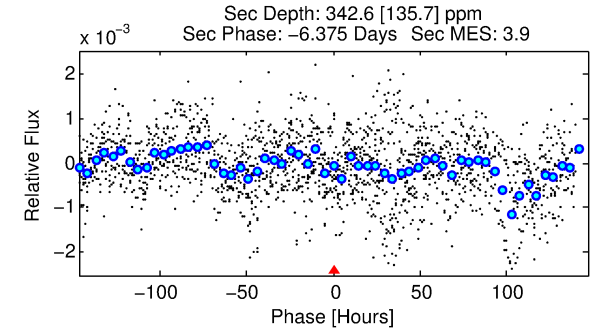
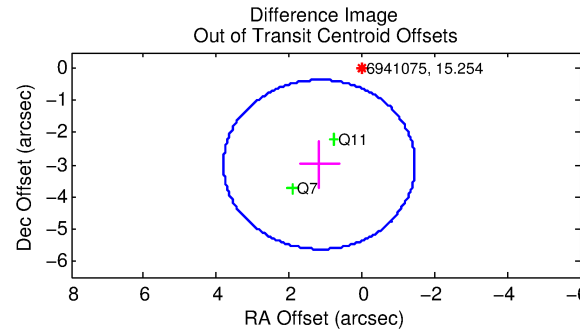
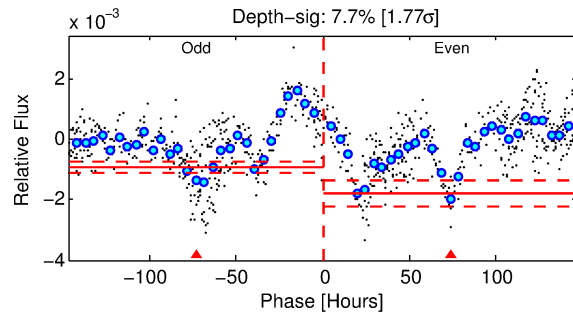
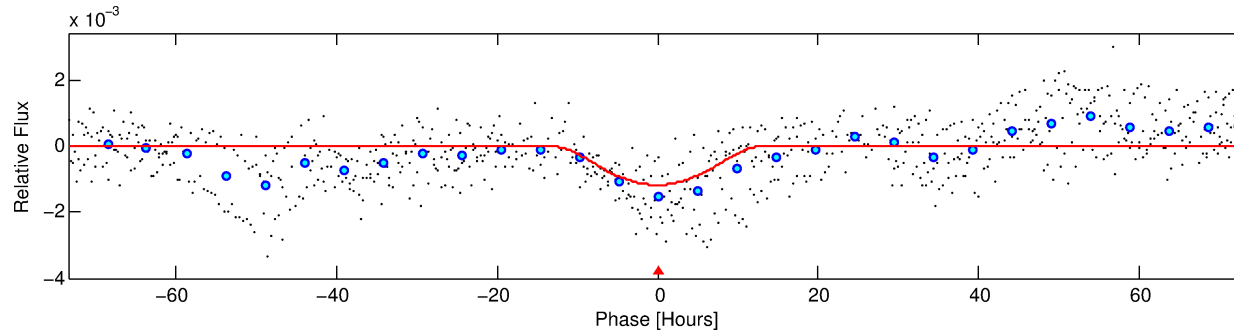
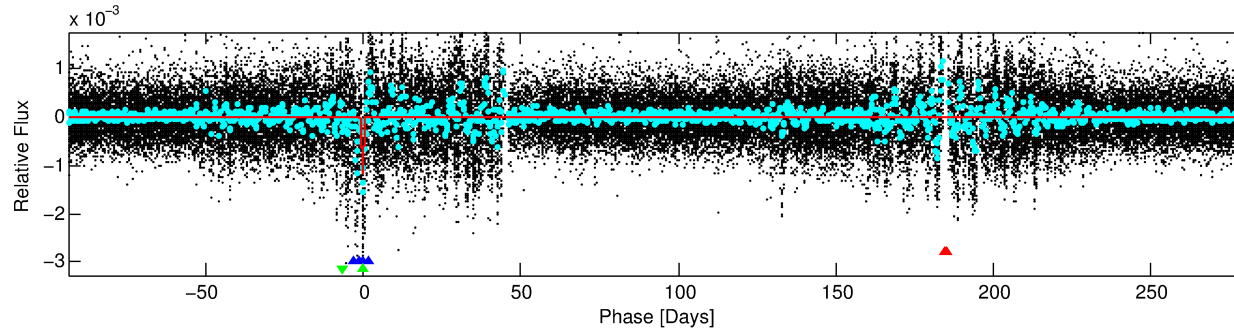
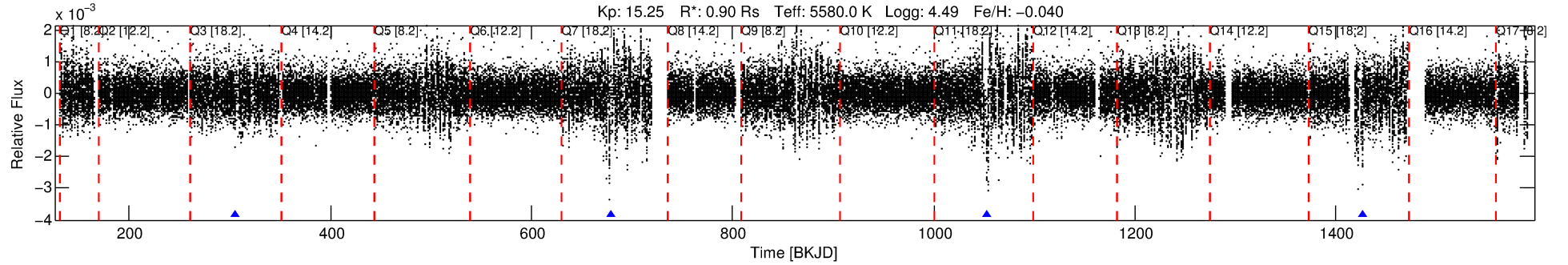
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006941075-03

No Significant Match Found

DV One-Page Summary

KIC: 6941075 Candidate: 3 of 3 Period: 373.719 d



DV Fit Results:

Period = 373.71887 [0.02411] d
Epoch = 305.9243 [0.0464] BKJD
Rp/R* = 0.0611 [0.1941]
a/R* = 41.49 [30.12]
b = 1.00 [0.99]
Seff = 0.72 [0.24]
Teq = 235 [20] K
Rp = 5.97 [19.03] Re
a = 0.9831 [0.2132] AU
Ag = 5116.59 [32621.44] [0.16 σ]
Teffp = 3071 [4890] K [0.58 σ]

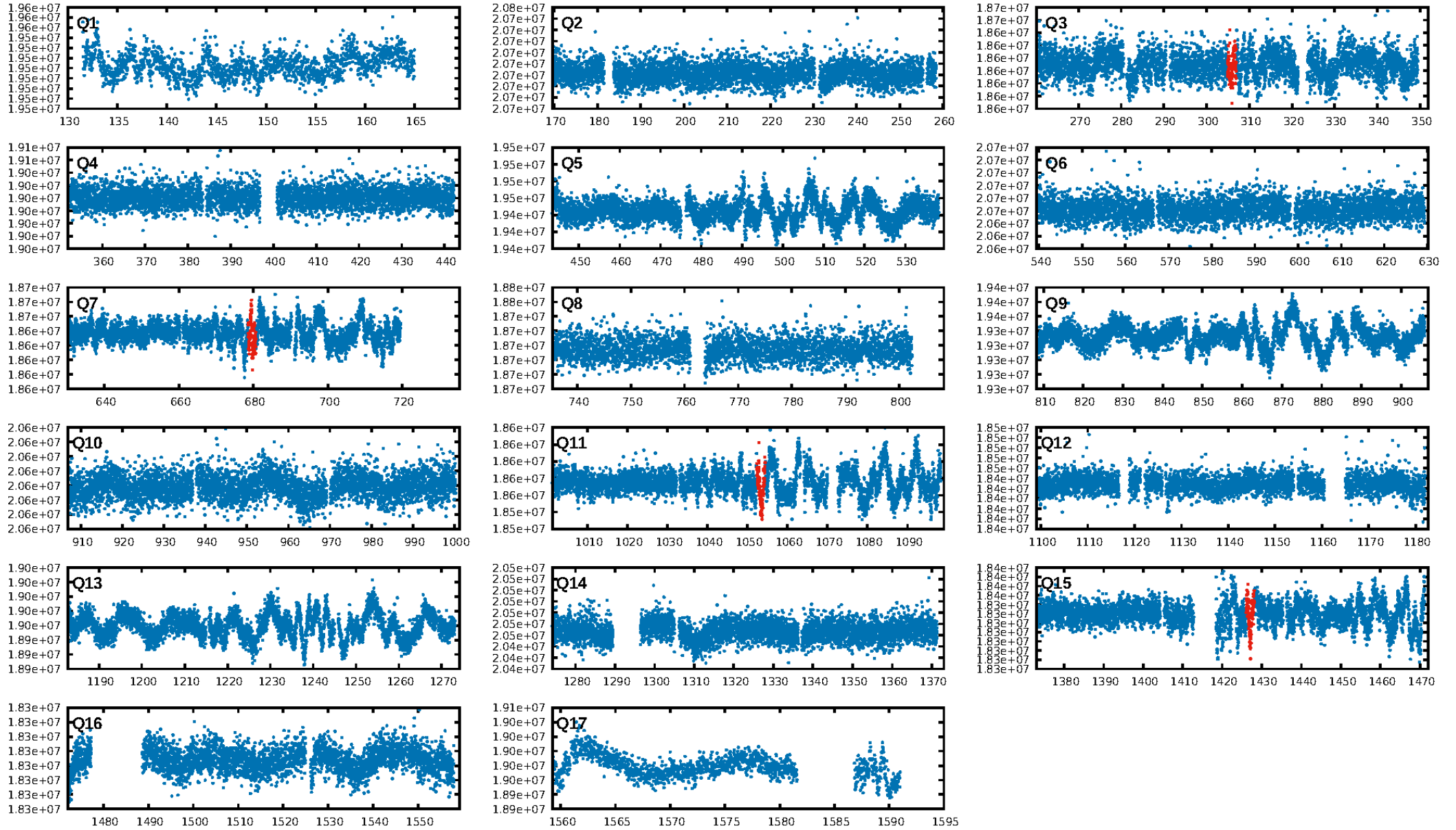
DV Diagnostic Results:

ShortPeriod-sig: 12.3% [0.15 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 5.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 6.83e-11
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -2.412
Centroid-sig: 8.3%
Centroid-so: 2.949 arcsec [1.36 σ]
OotOffset-rm: 3.218 arcsec [3.66 σ]
KicOffset-rm: 3.275 arcsec [3.90 σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.25 [1/4]

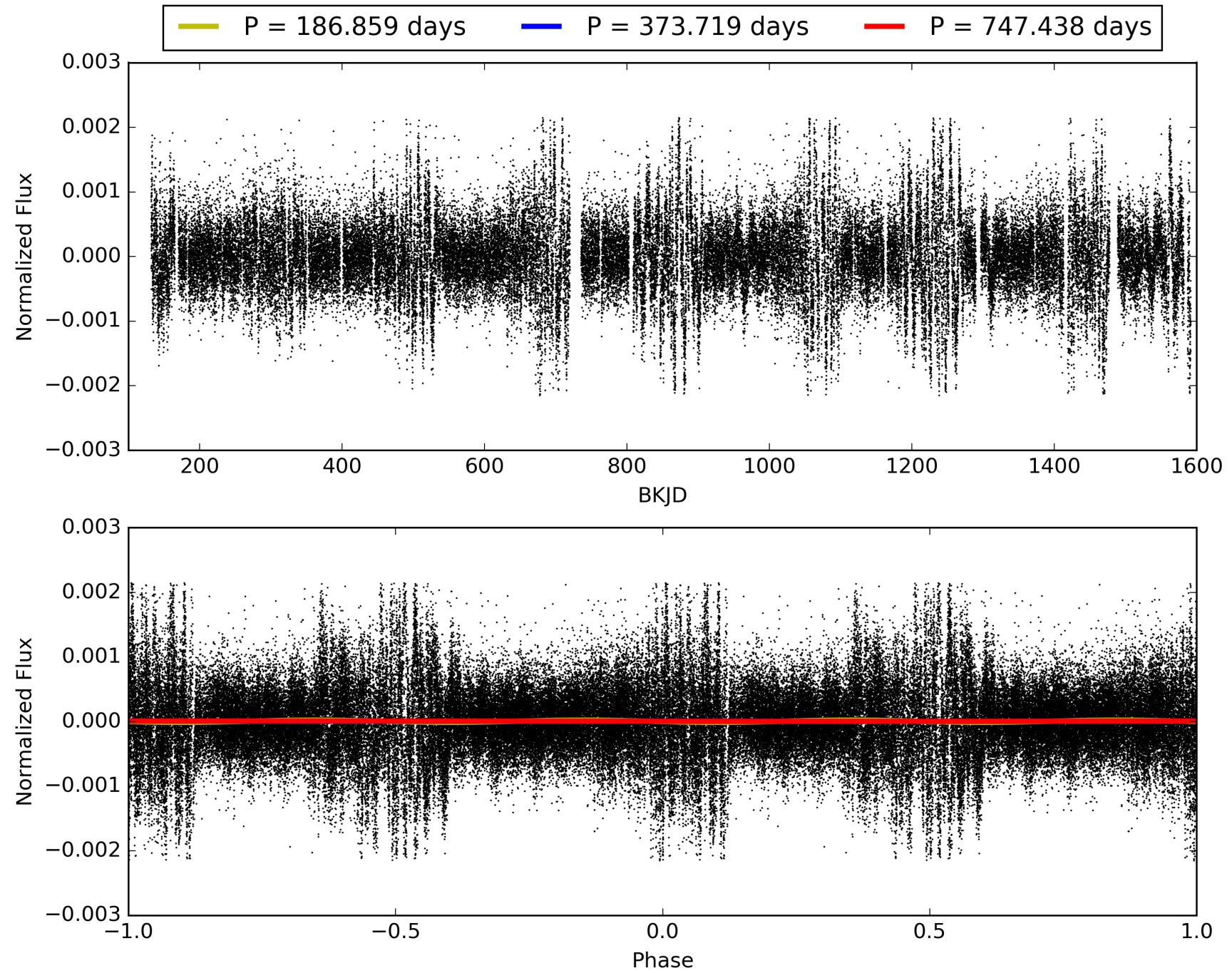
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:17:42 Z

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

TCE 006941075-03, PDC Light Curves

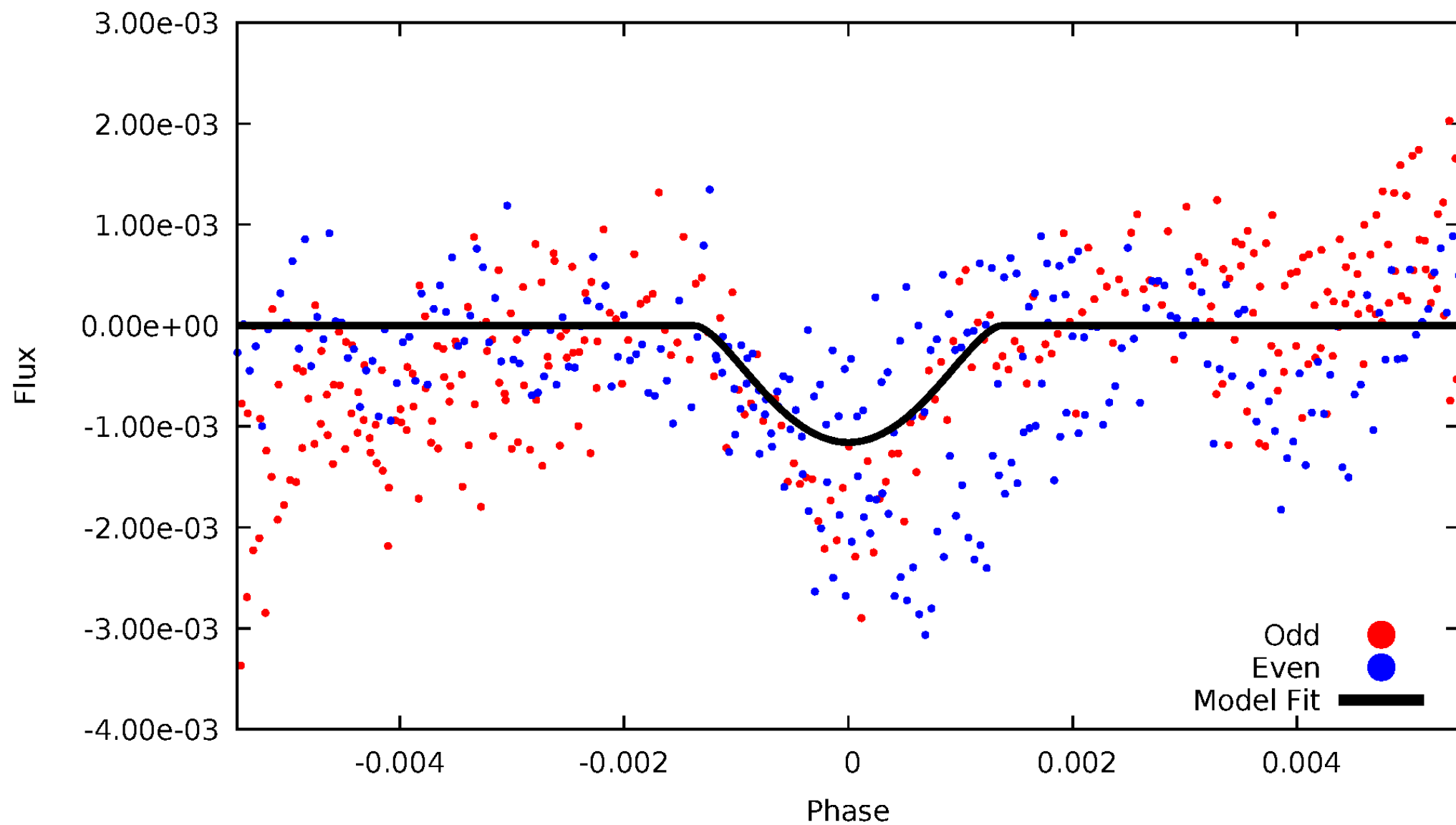


TCE 006941075-03



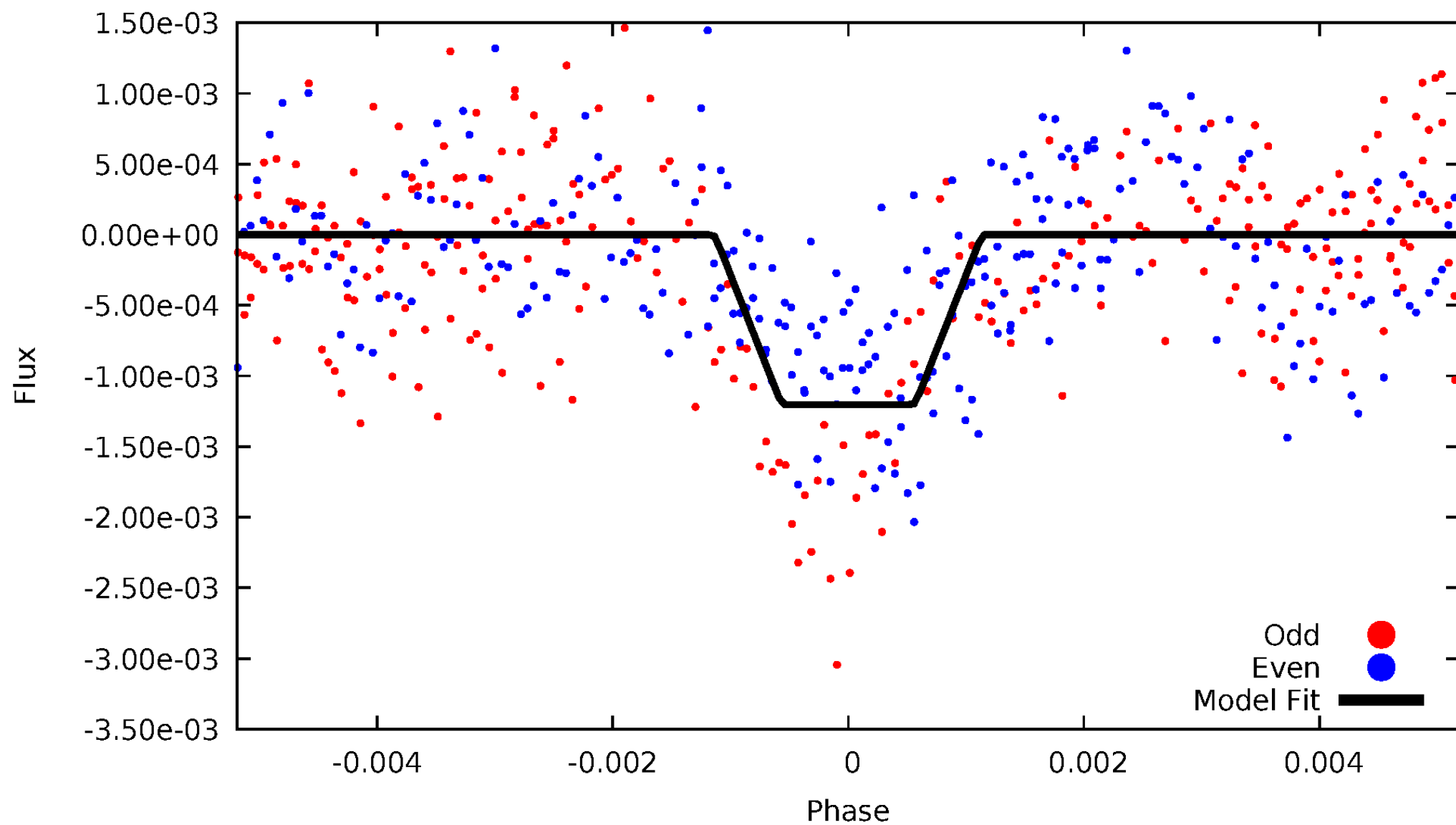
DV Odd/Even

TCE 006941075-03



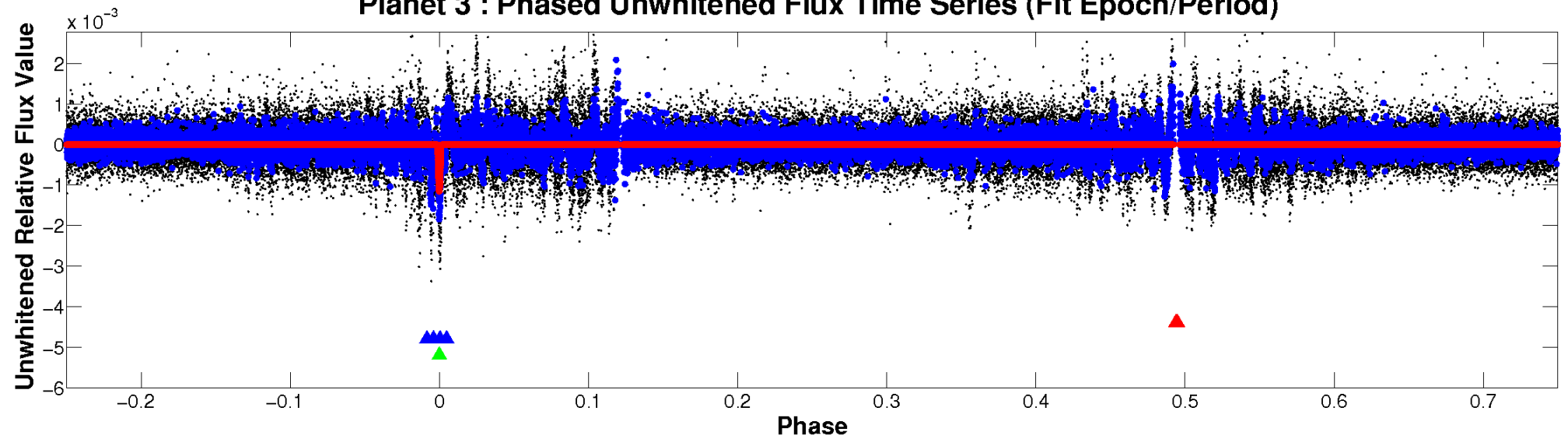
ALT Odd/Even

TCE 006941075-03

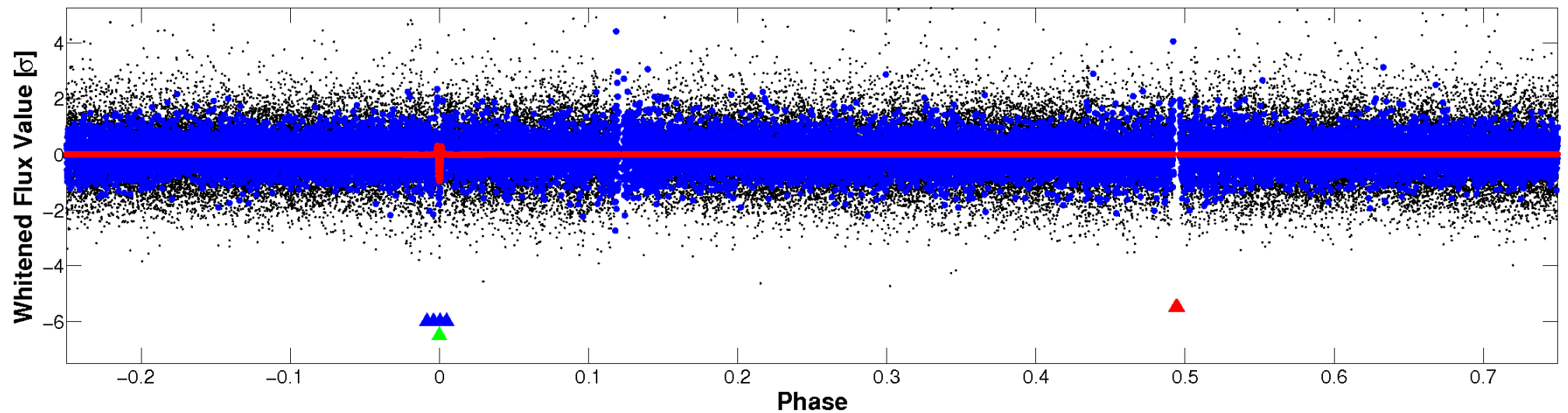


Non-Whitened Vs. Whitened Light Curve

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

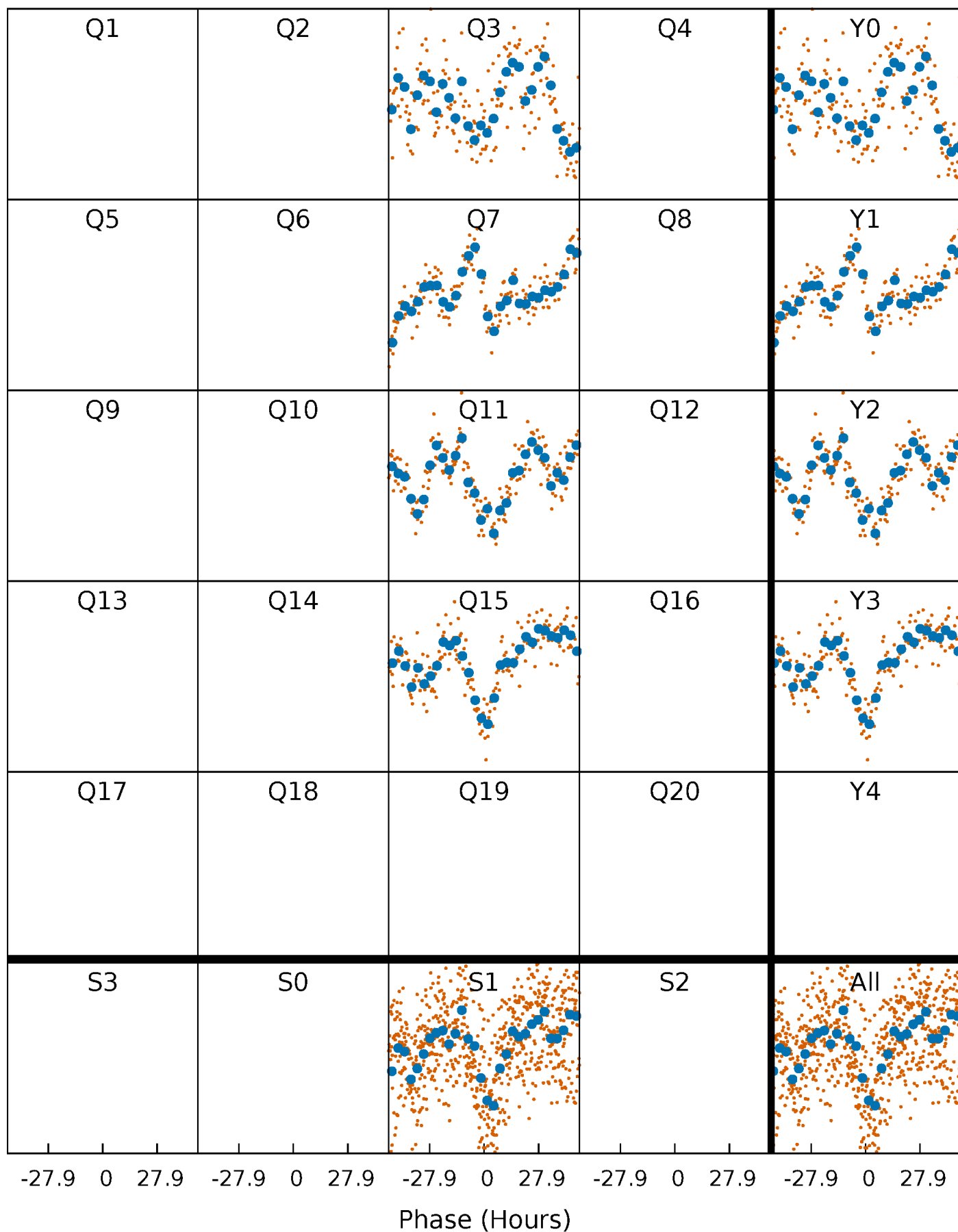


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



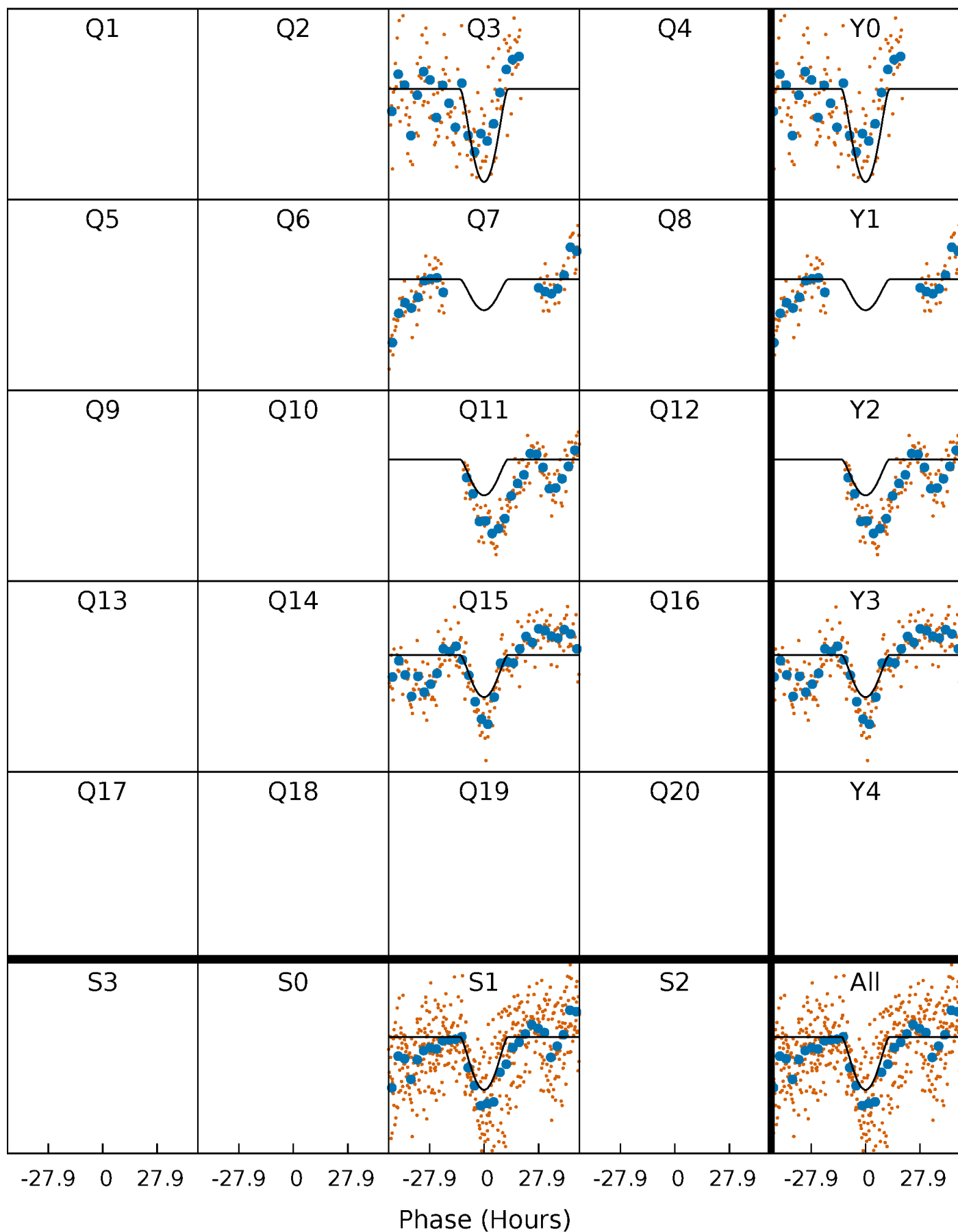
PDC Quarter-Phased Transit Curves

TCE 006941075-03 $P=373.718867$ Days $T_0=305.924336$ (BKJD)



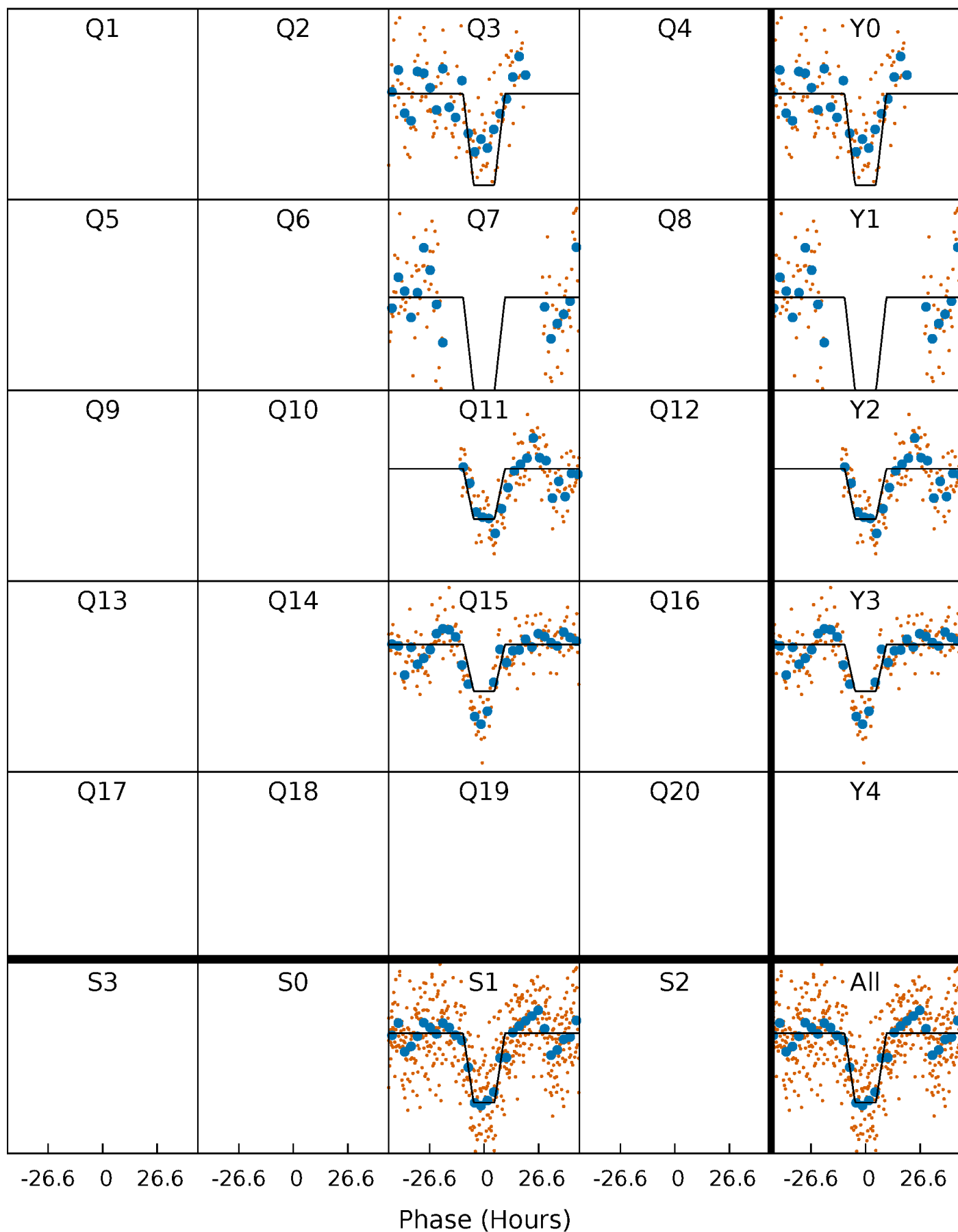
DV Quarter-Phased Transit Curves

TCE 006941075-03 P=373.718867 Days $T_0=305.924336$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

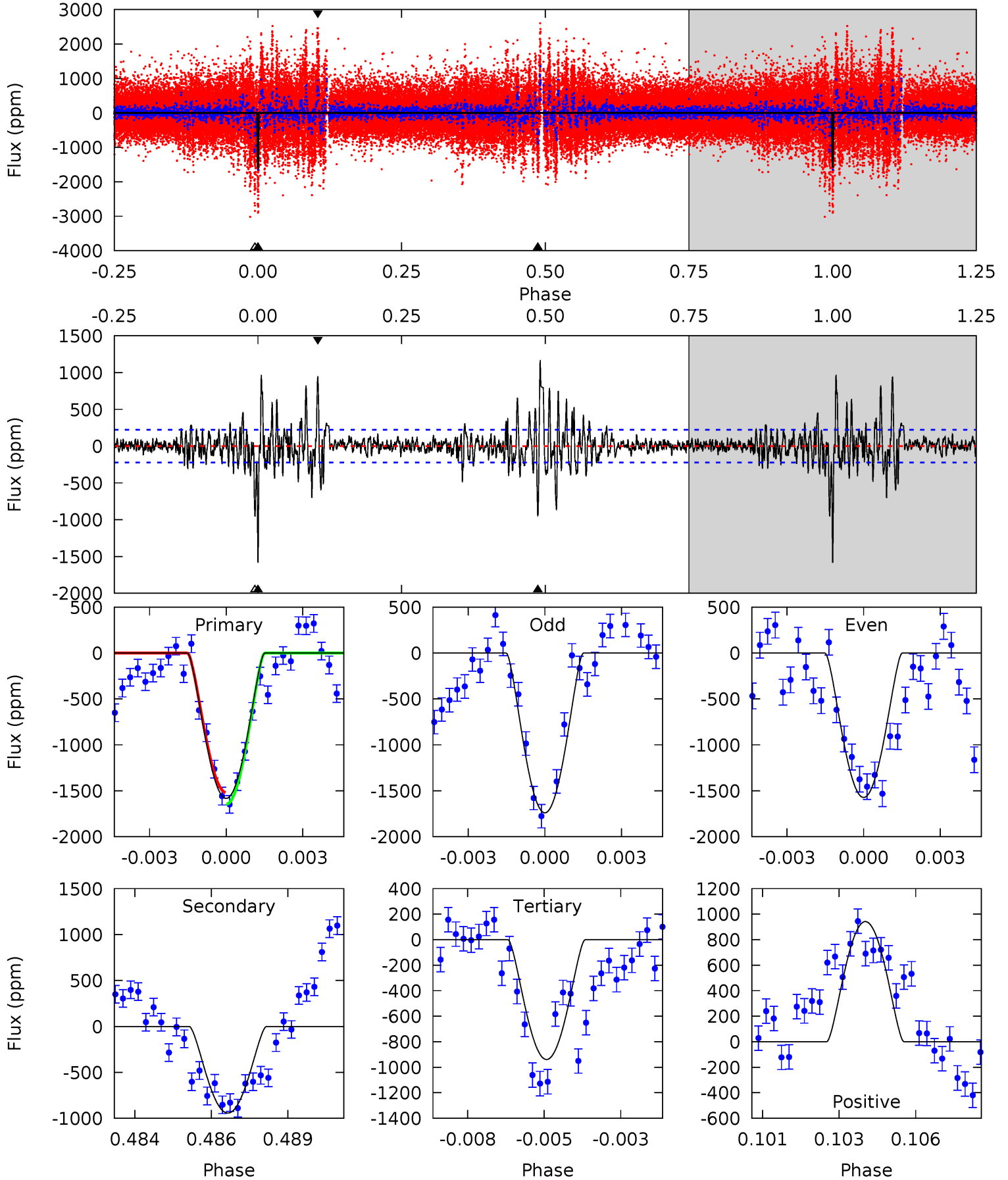
TCE 006941075-03 P=373.750246 Days $T_0=305.909407$ (BKJD)



DV Model-Shift Uniqueness Test

006941075-03, P = 373.718867 Days, E = 305.924336 Days

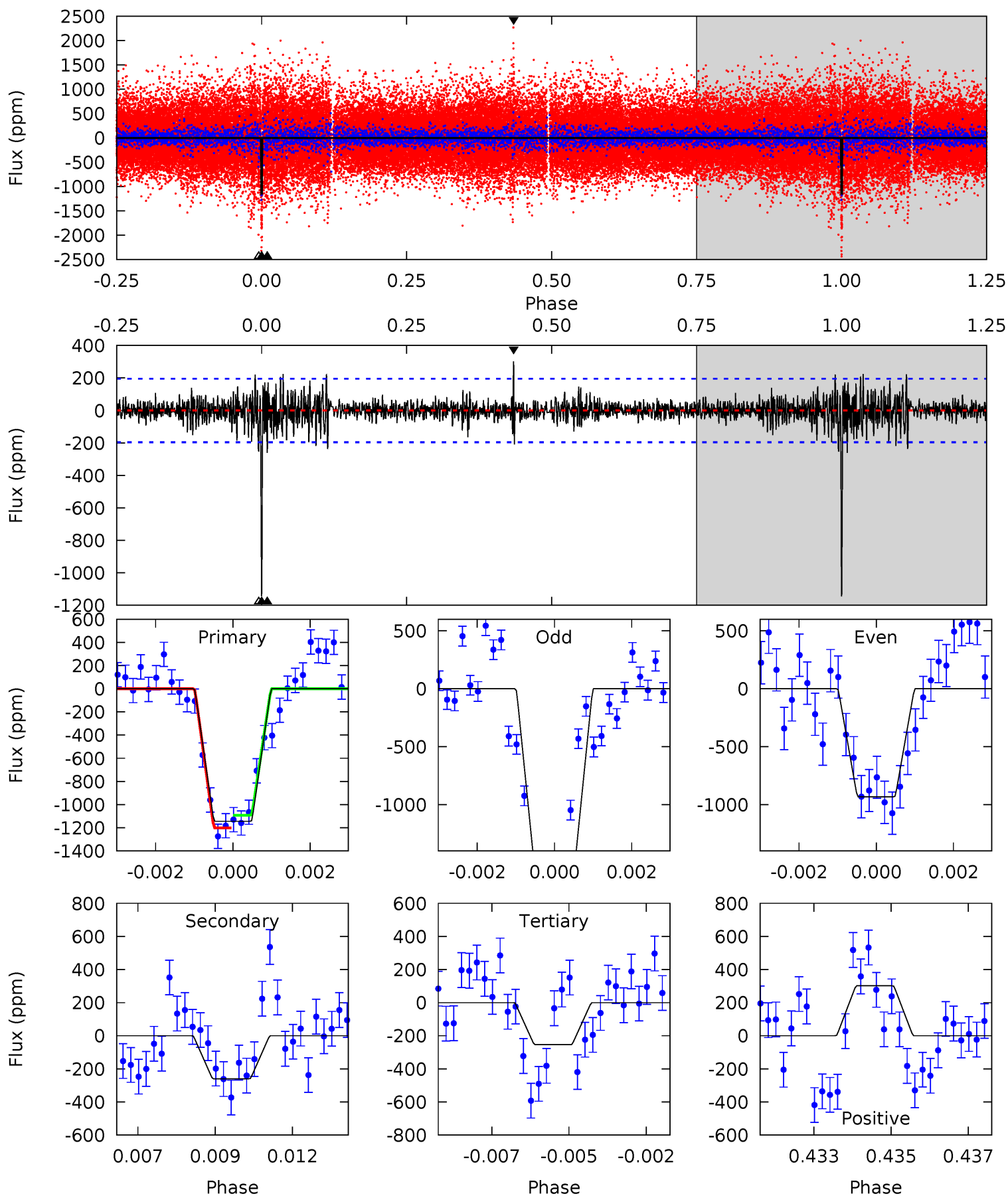
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
37.6	22.4	22.3	22.4	5.27	3.00	4.32	15.3	15.2	0.09	0.04	1.90	0.93	0.42	1.53



Alt Model-Shift Uniqueness Test

006941075-03, P = 373.750246 Days, E = 305.909407 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.0	7.05	6.87	8.18	5.30	3.05	1.33	24.2	22.9	0.18	-1.13	8.96	0.97	0.21	1.50



Stellar Parameters For KIC 006941075

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5580^{+166}_{-166}	$4.492^{+0.060}_{-0.168}$	$-0.040^{+0.300}_{-0.300}$	$0.895^{+0.234}_{-0.100}$	$0.907^{+0.102}_{-0.091}$	$1.782^{+0.535}_{-0.816}$
	+3%/-3%	+1%/-4%	+750%/-750%	+26%/-11%	+11%/-10%	+30%/-46%
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 006941075-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-943 ± 42	$16.54^{+15.12}_{-11.25}$	334^{+20}_{-16}	3057^{+1421}_{-465}	1825^{+16265}_{-1329}
Alt.	-260 ± 37	$13.65^{+15.34}_{-9.13}$	334^{+21}_{-16}	2708^{+1071}_{-461}	745^{+6006}_{-586}

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

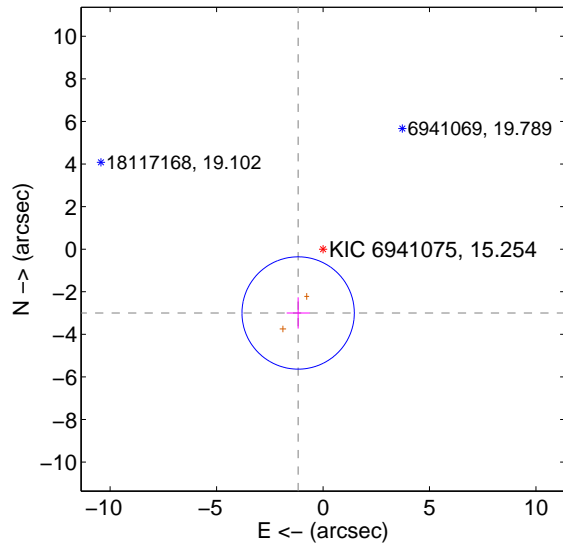
Supplemental centroid analysis for 006941075-03. Kepler magnitude: 15.25. Transit SNR 7.32

There are 0 quarters with good PRF difference image offsets

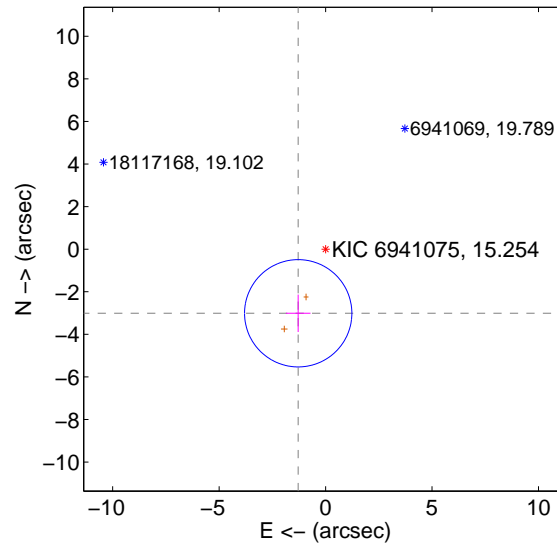
The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.218 ± 0.879	3.66	1.170 ± 0.541	-2.998 ± 0.735
PRF-fit source offset from KIC position	3.275 ± 0.840	3.90	1.286 ± 0.578	-3.012 ± 0.879
photometric centroid source offset	2.95 ± 2.17	1.36	0.58 ± 1.55	-2.89 ± 2.20

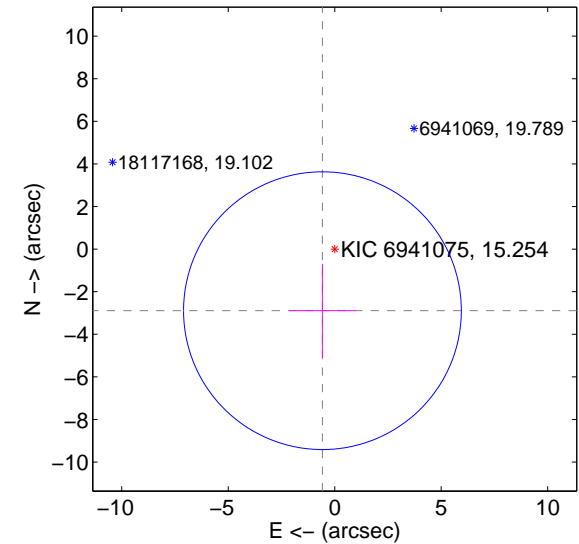
offset from difference PRF-fit to OOT PRF-fit



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



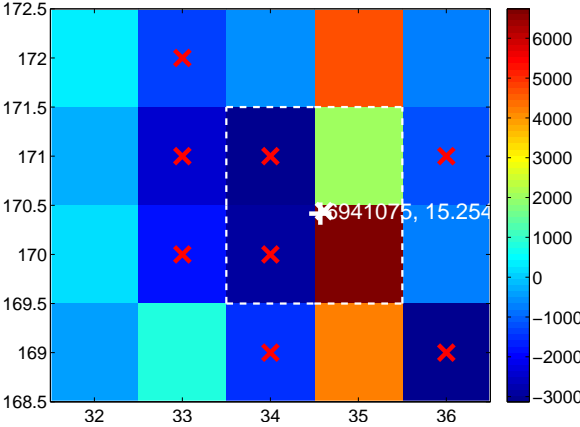
Q2 no difference image



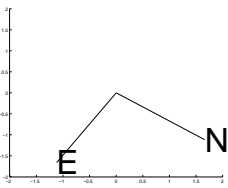
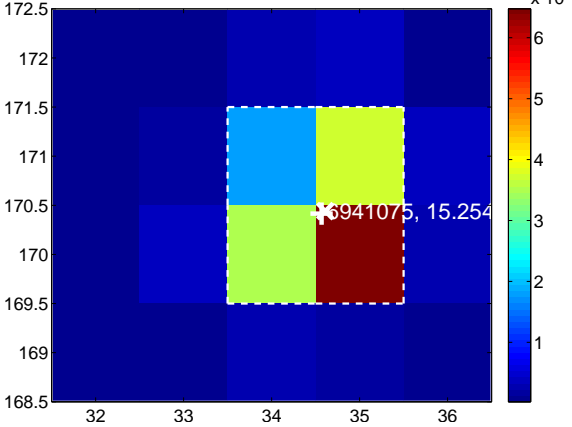
Q2 no OOT image



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.

Q5 no difference image



Q5 no OOT image



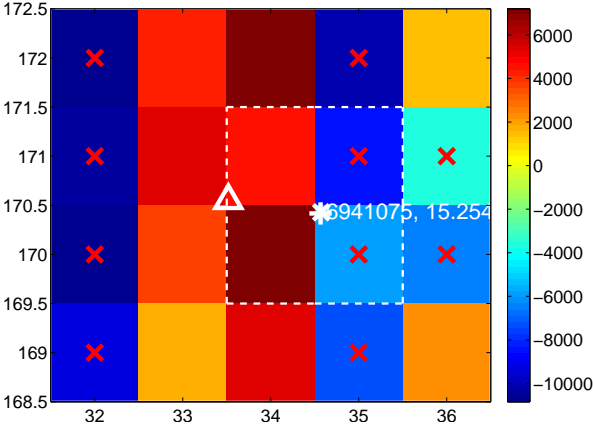
Q6 no difference image



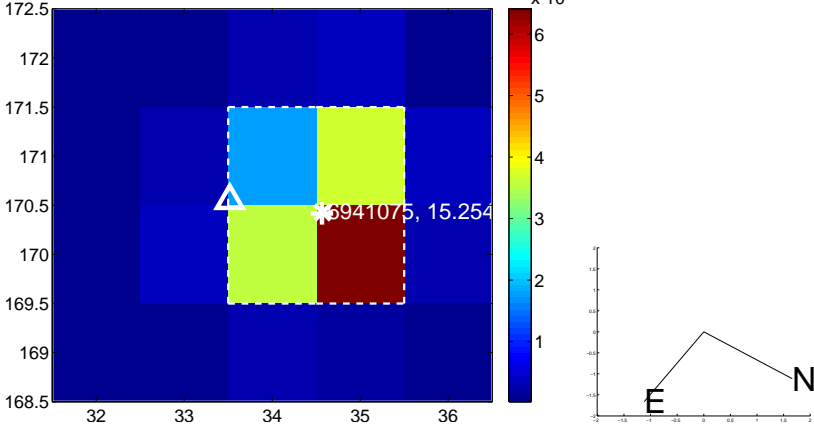
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



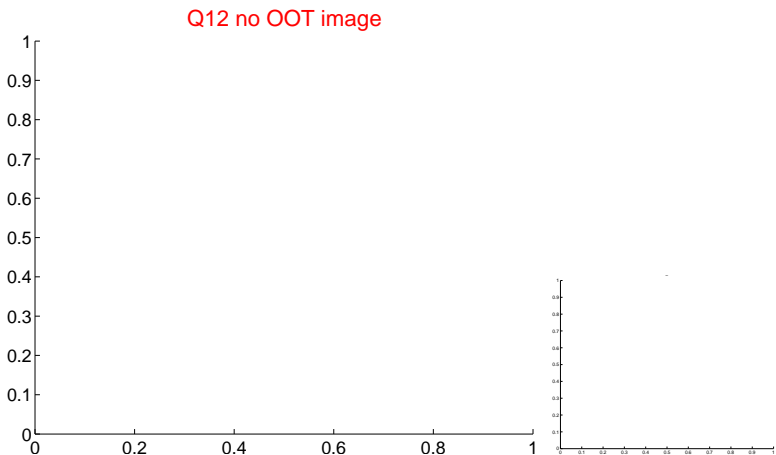
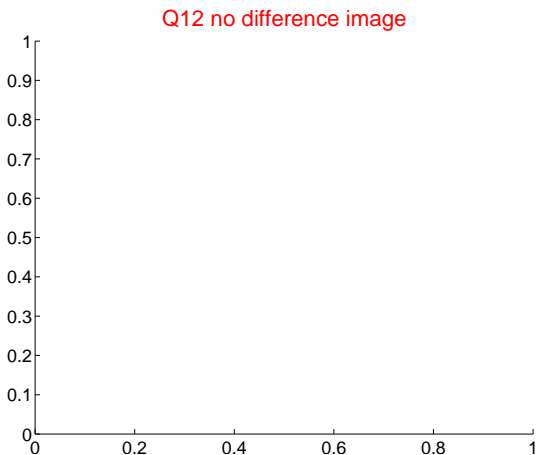
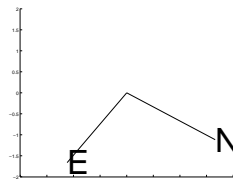
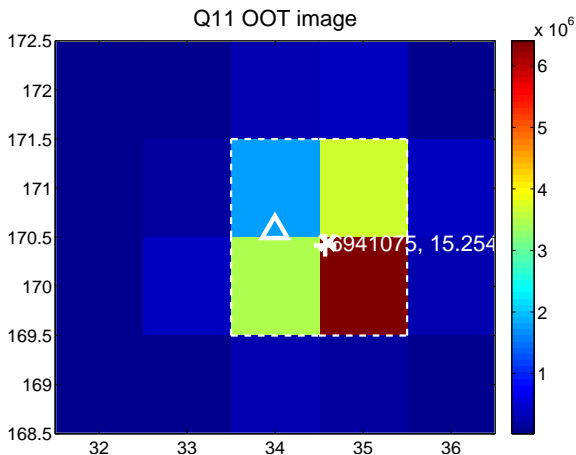
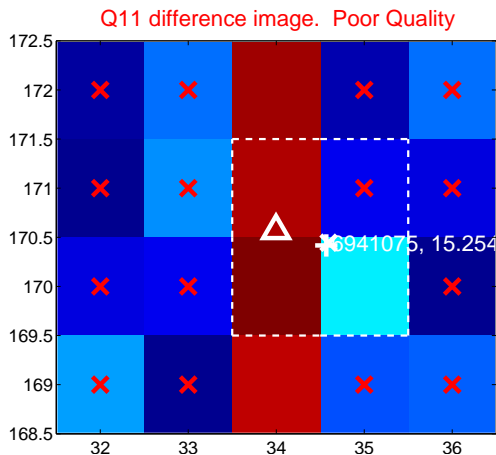
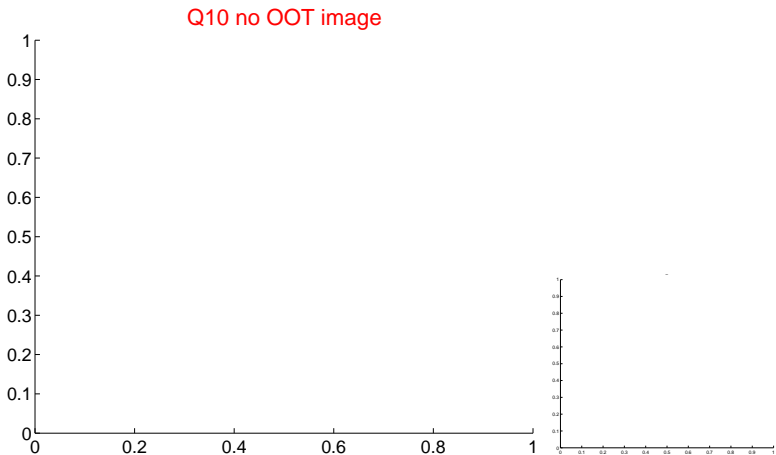
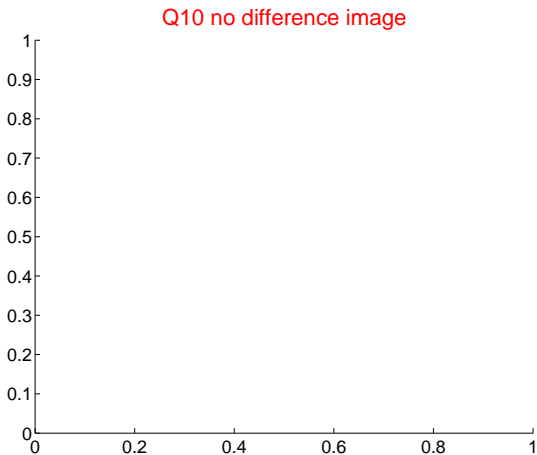
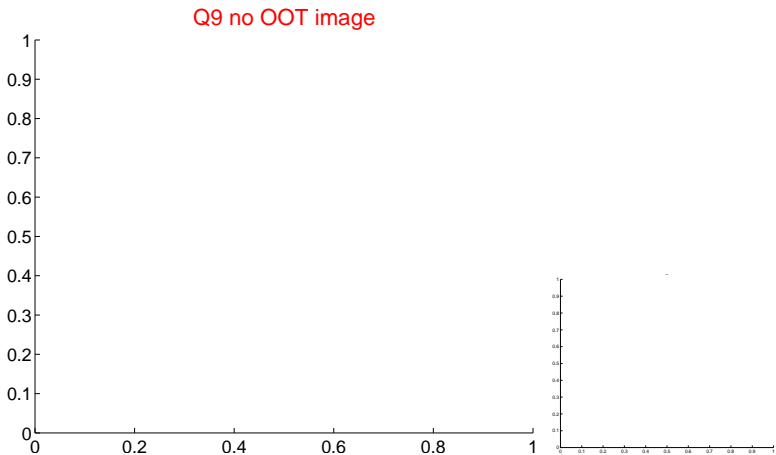
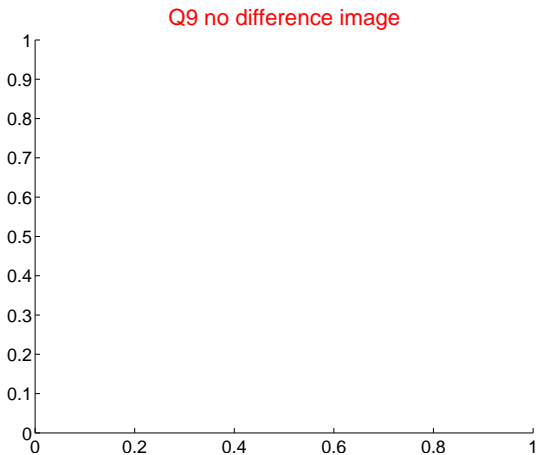
Q8 no difference image



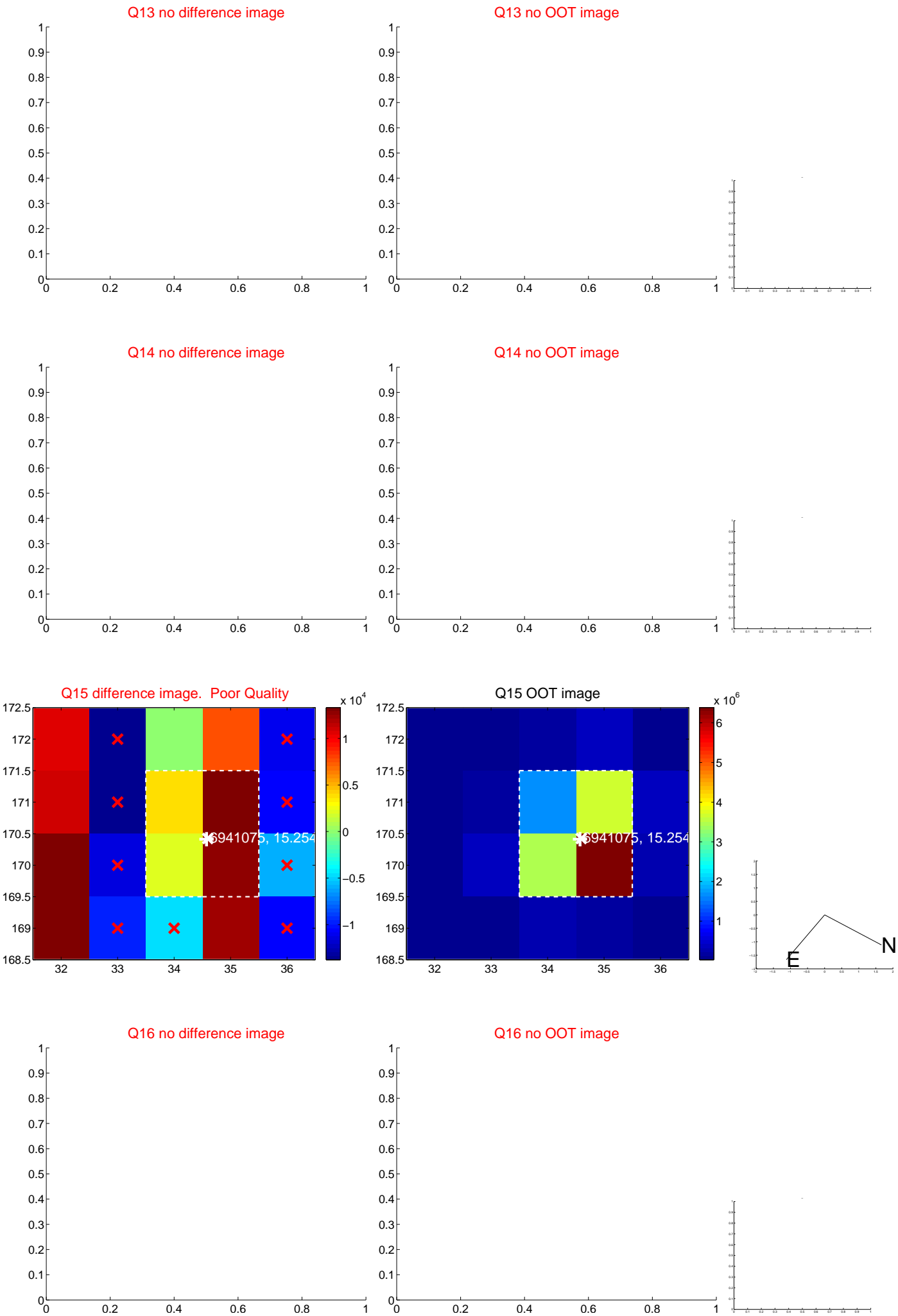
Q8 no OOT image



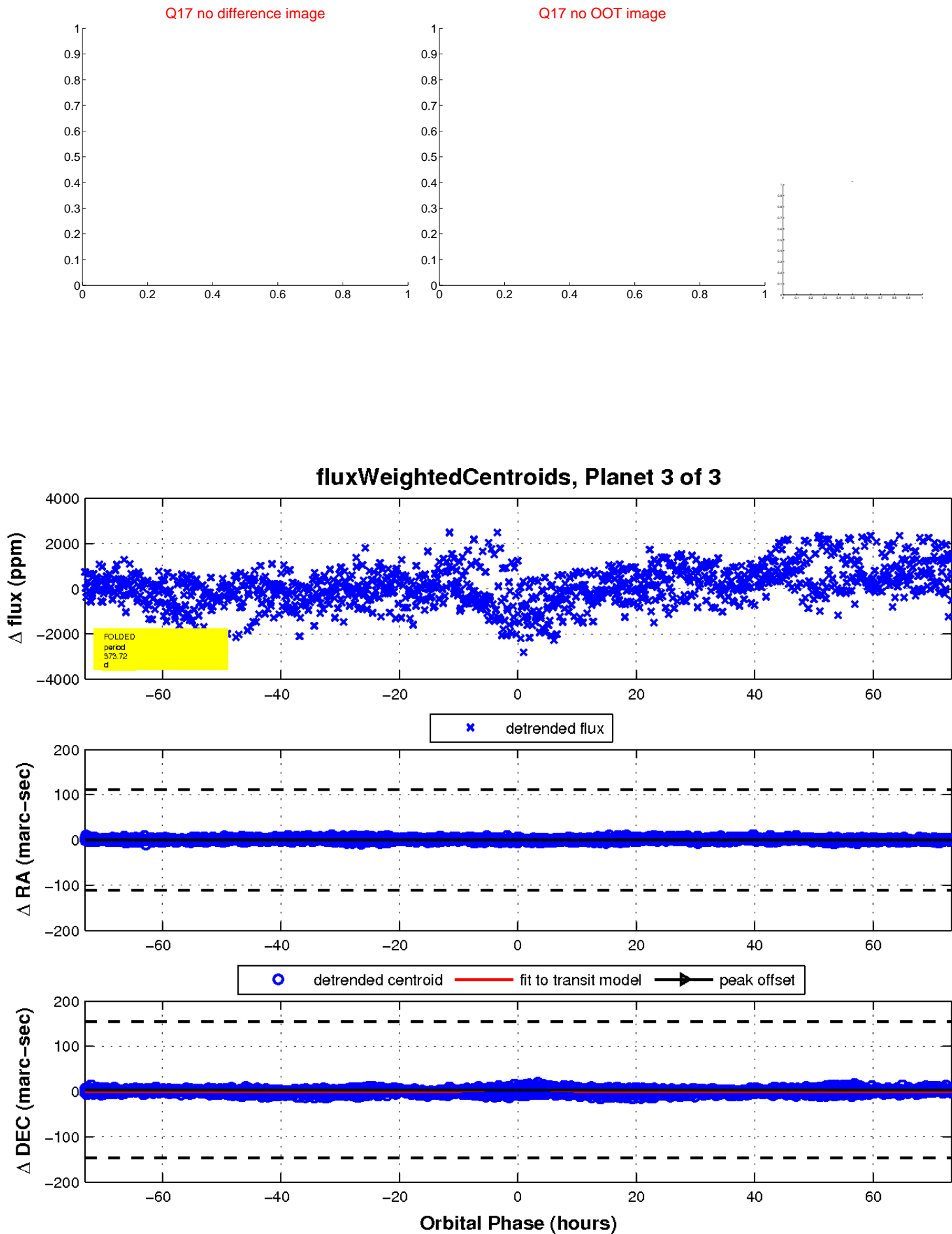
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

