

KIC 010753734

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})
010753734-01	OBS	7371.01	19.406512	149.813281	473278.8	3.000	24390.4	-1.0	0.78	5622	42.45	30.10
010753734-02	OBS	No	19.406668	146.025633	356494.9	4.500	18268.1	-1.0	0.78	5622	37.92	30.10
010753734-03	OBS	No	9.702870	139.902376	34844.2	15.000	3216.1	-1.0	0.78	5622	14.41	75.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010753734-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
010753734-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
010753734-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—RESIDUAL_TCE—CENT_NOFITS

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.

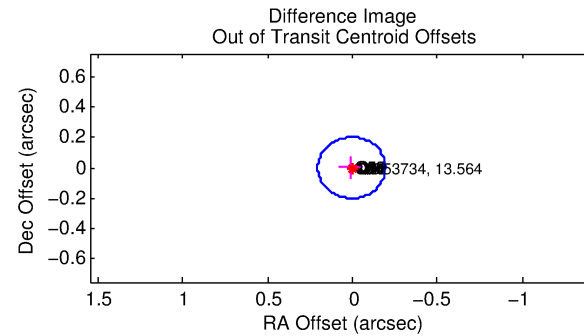
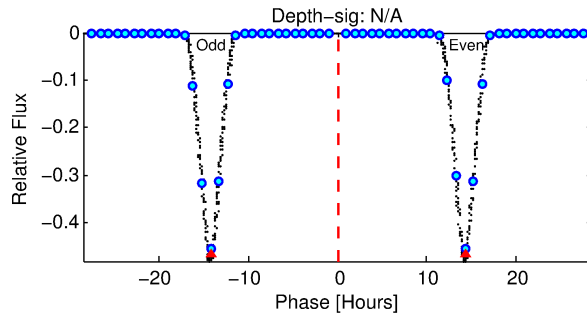
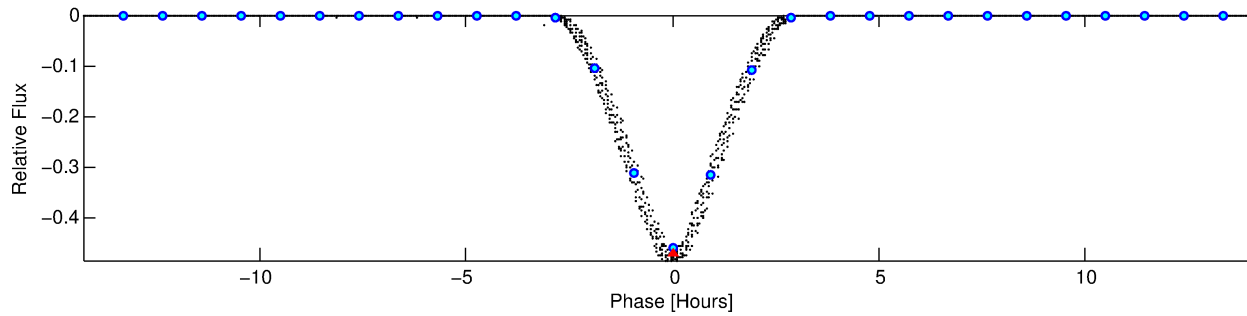
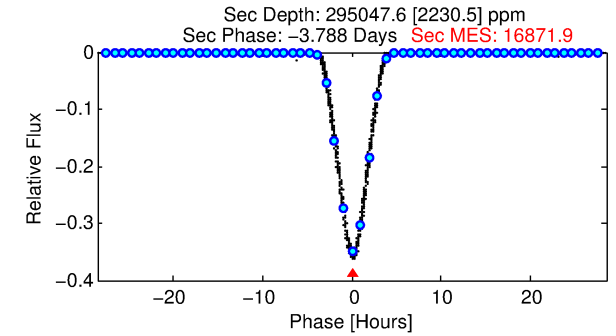
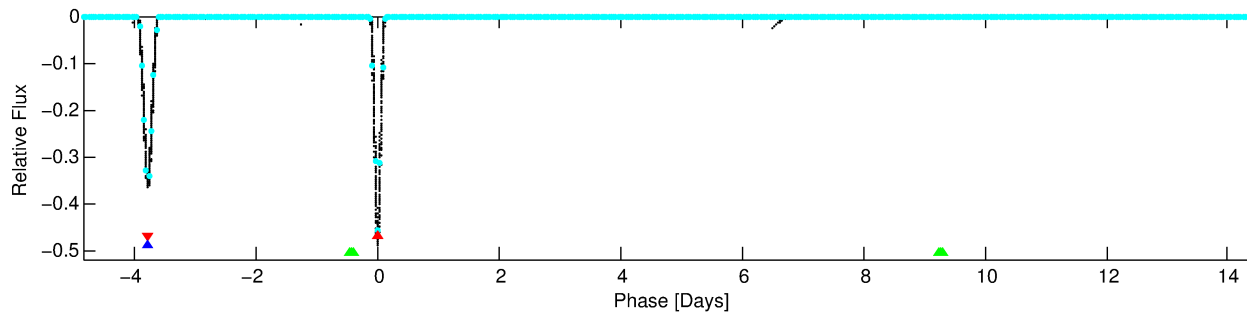
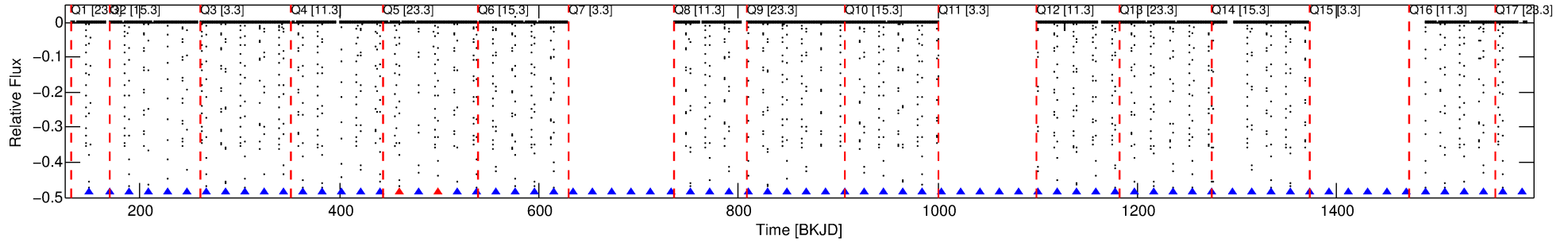
Ephemeris Match Information For 010753734-01

No Significant Match Found

DV One-Page Summary

KIC: 10753734 Candidate: 1 of 3 Period: 19.407 d
KOI: K07371.01 Corr: 0.754

Kp: 13.56 R*: 0.78 Rs Teff: 5622.0 K Logg: 4.59 Fe/H: -0.340



TPS TCE Results:

Period = 19.40651 d
Epoch = 149.8133 BKJD

DV fit results are unavailable

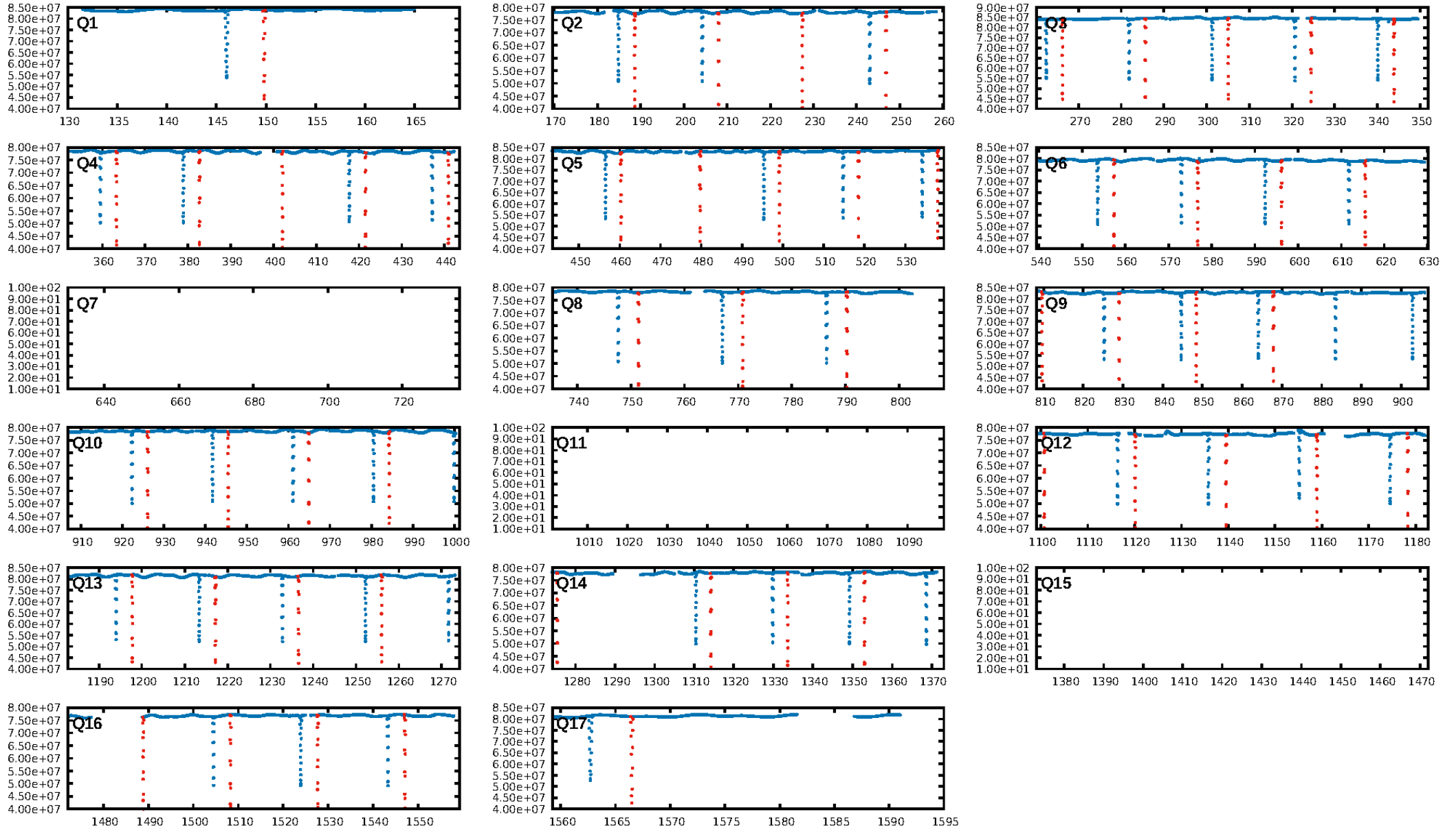
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [15.22 σ]
LongPeriod-sig: 0.1% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.96 [49/51]
GhostDiagnostic-chr: 0.7598
Centroid-sig: N/A
Centroid-so: 0.125 arcsec [255.38 σ]
OotOffset-rm: 0.007 arcsec [0.11 σ]
KicOffset-rm: 0.057 arcsec [0.83 σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 0.00 [0/14]

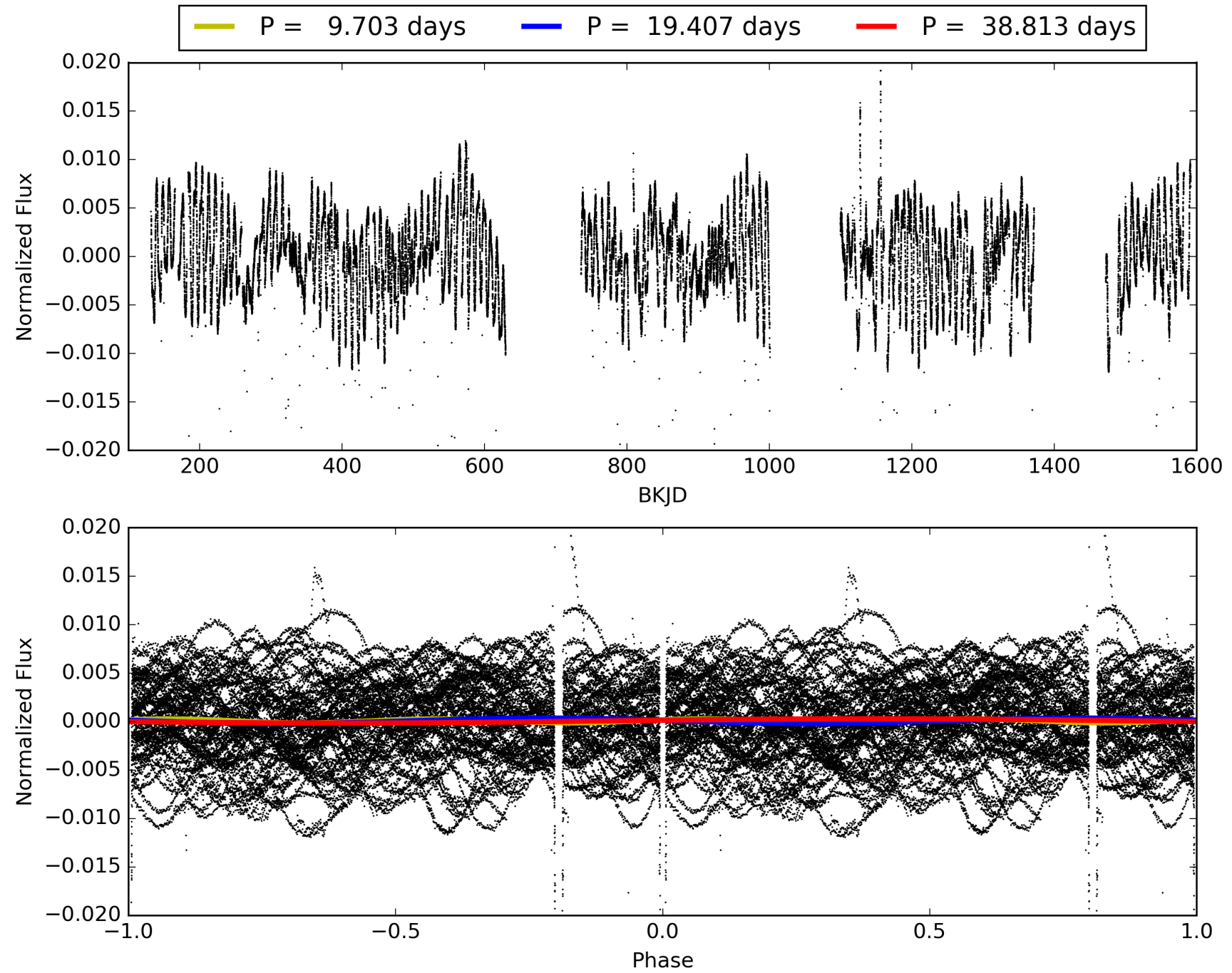
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:09:45 Z

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

TCE 010753734-01, PDC Light Curves

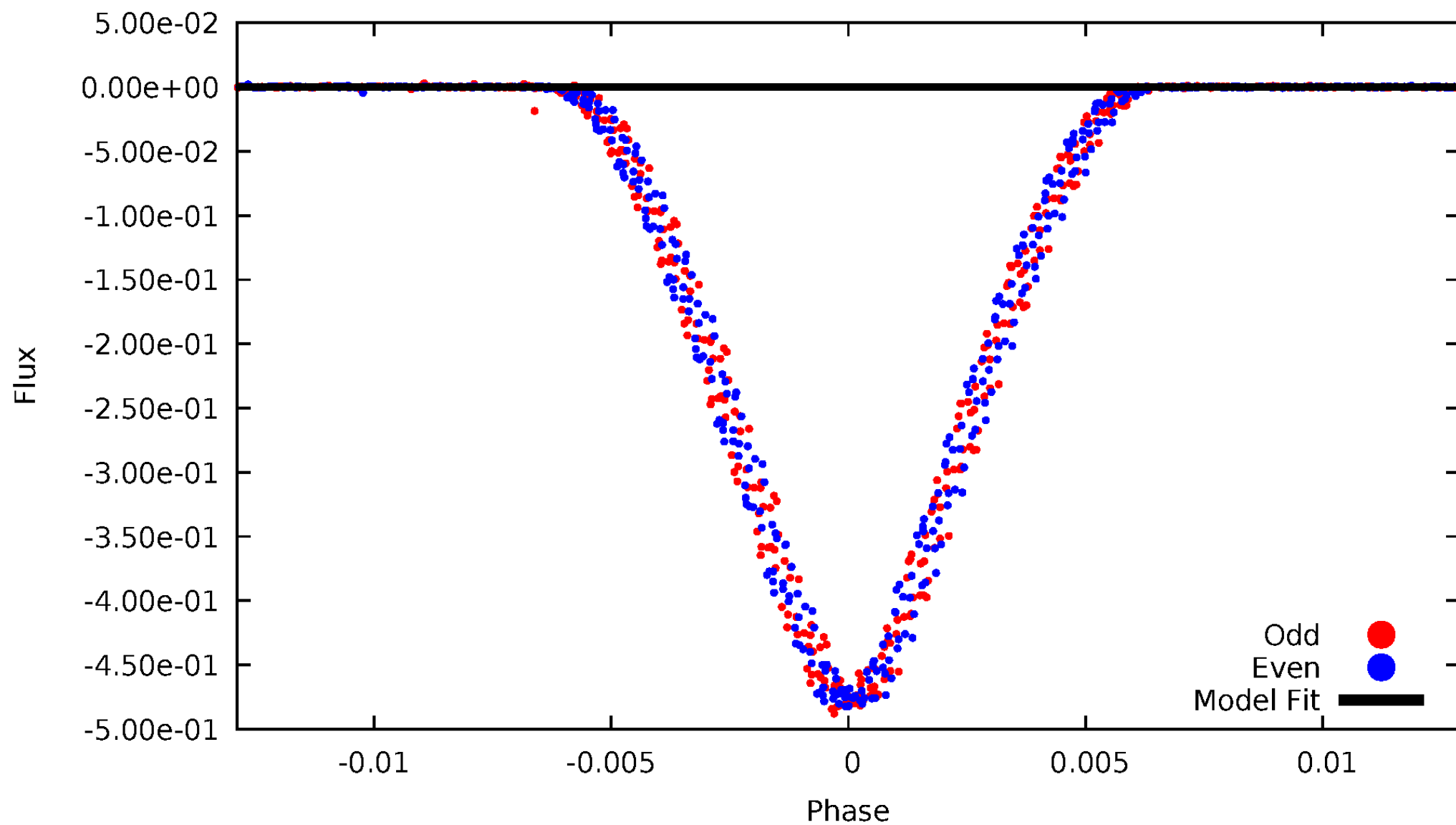


TCE 010753734-01



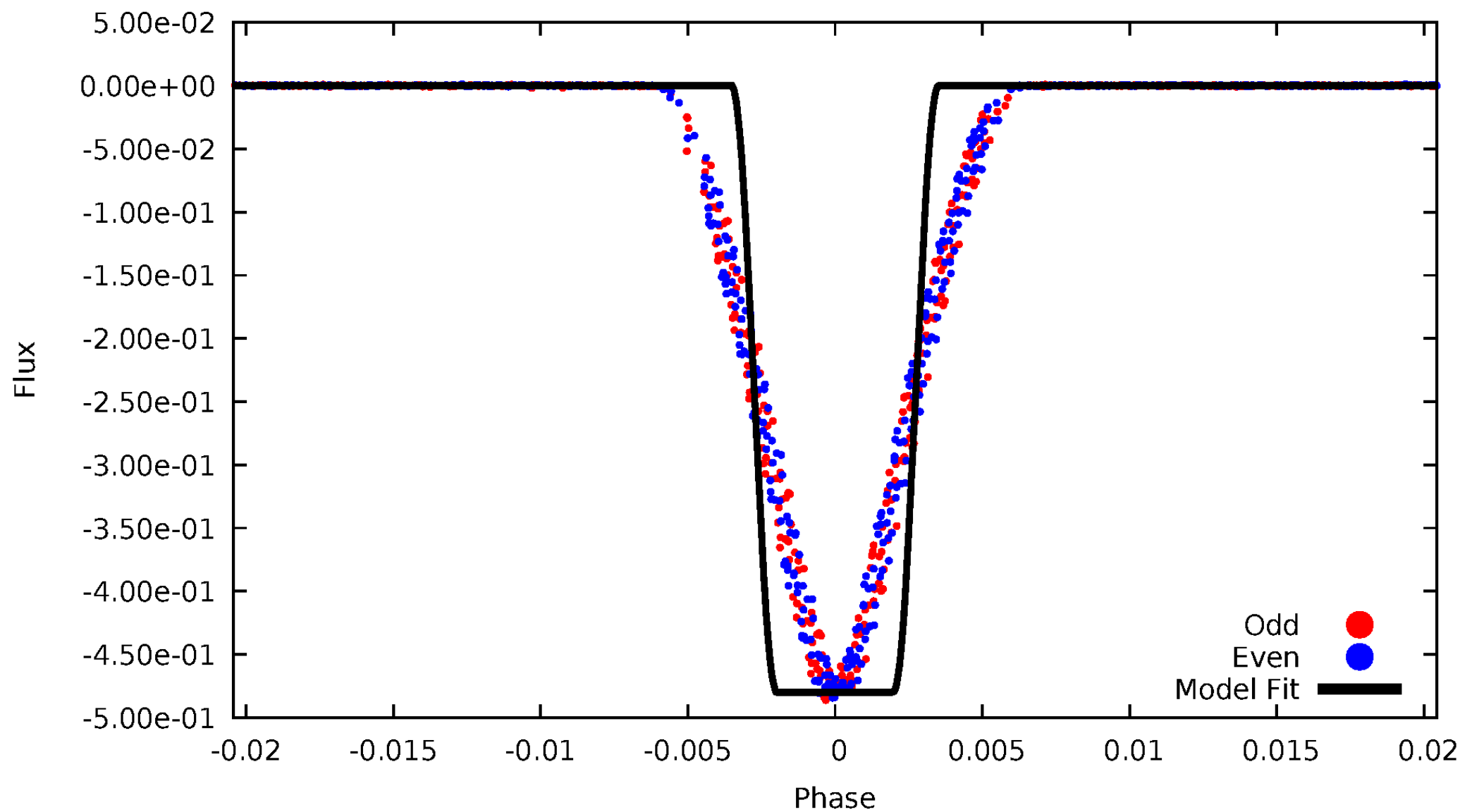
DV Odd/Even

TCE 010753734-01



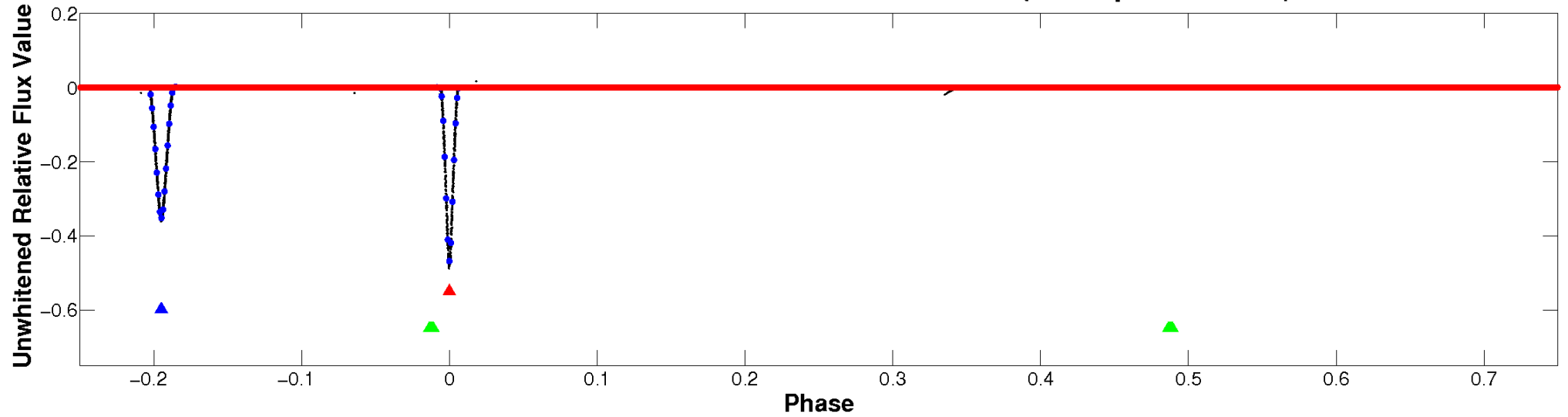
ALT Odd/Even

TCE 010753734-01

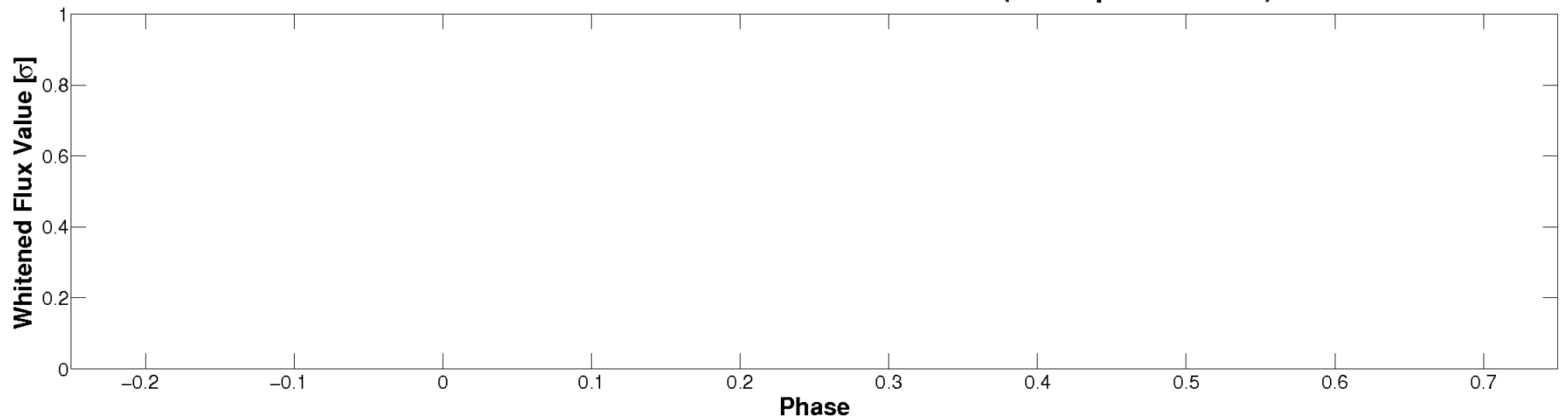


Non-Whitened Vs. Whitened Light Curve

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

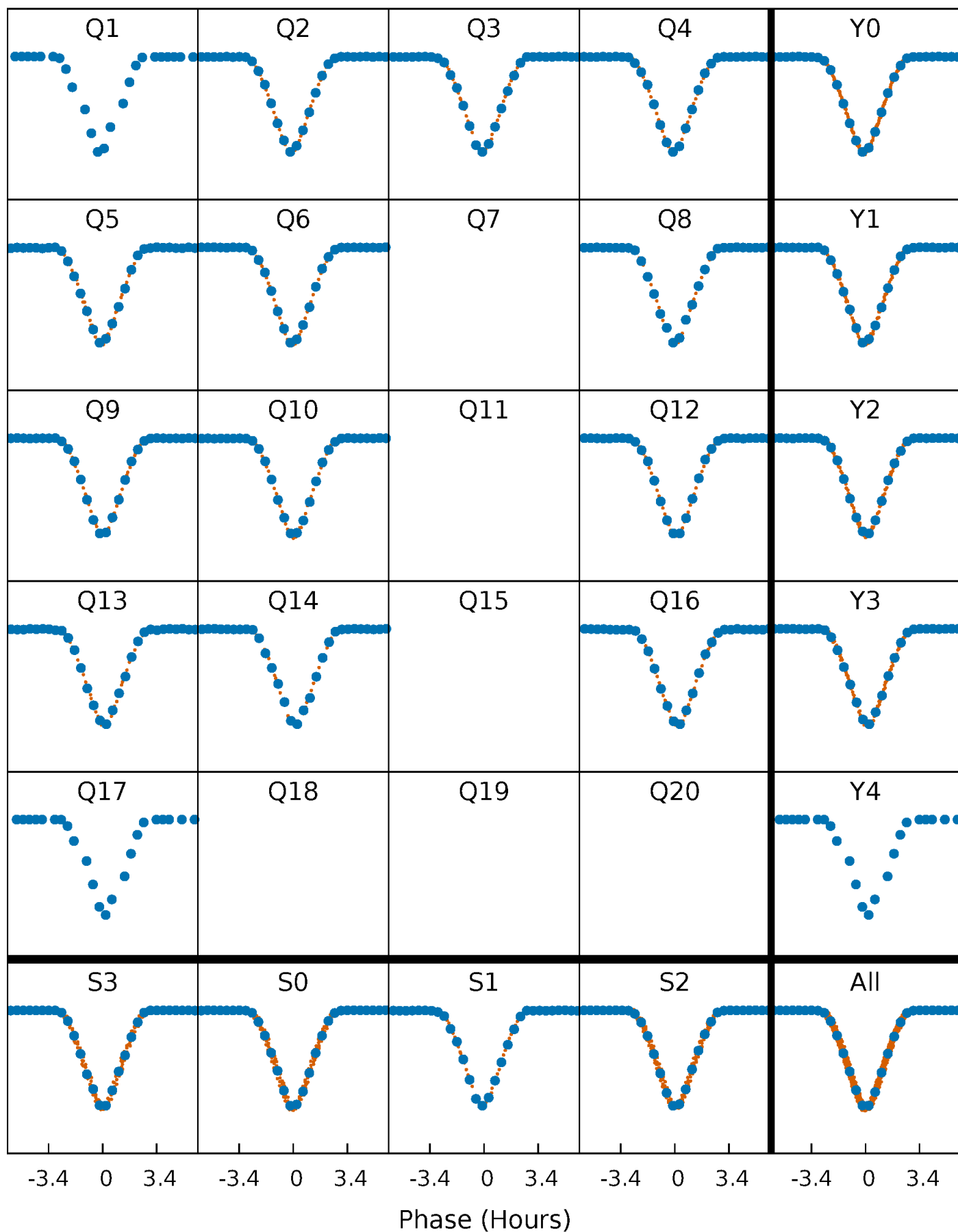


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



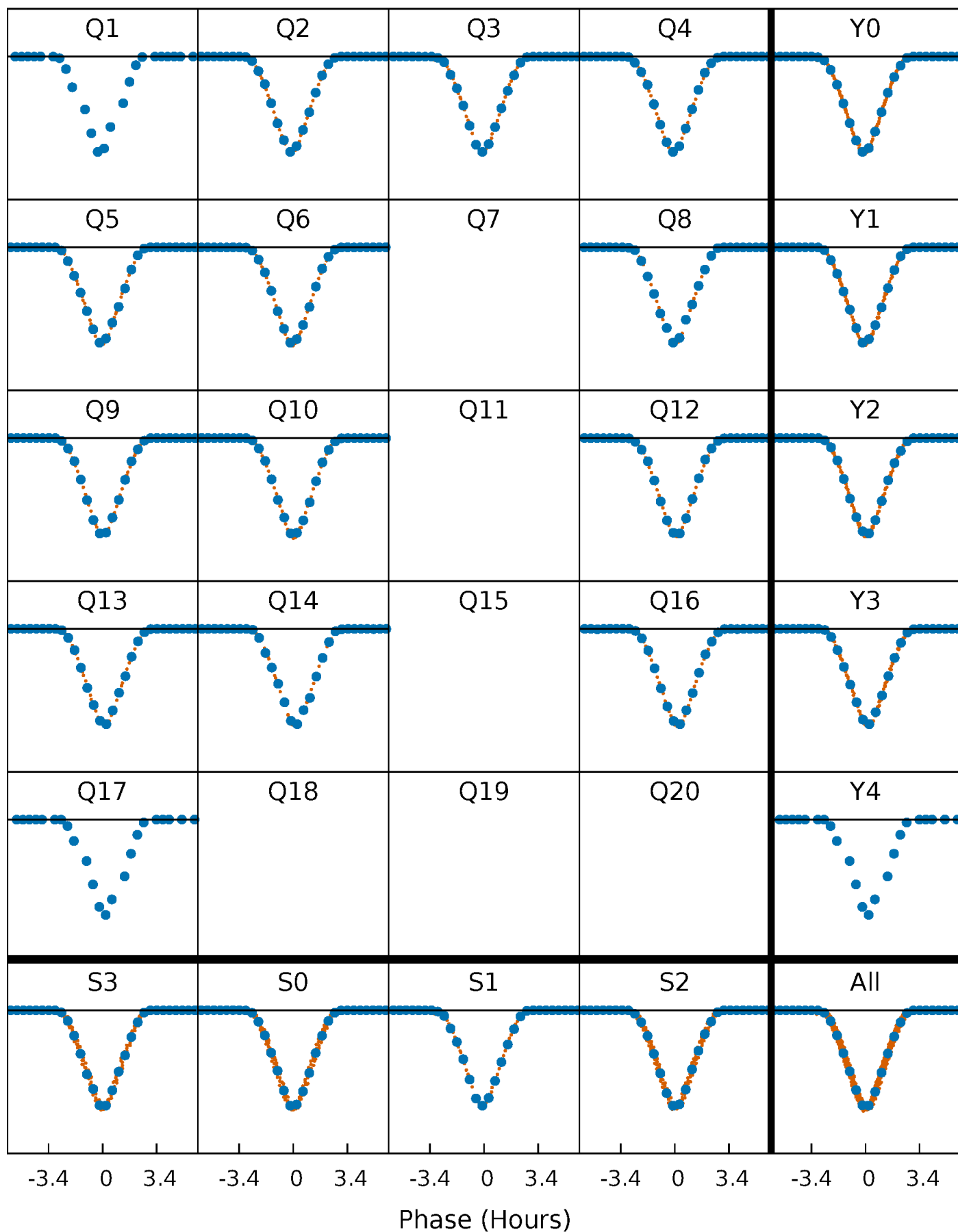
PDC Quarter-Phased Transit Curves

TCE 010753734-01 P= 19.406512 Days $T_0=149.813281$ (BKJD)



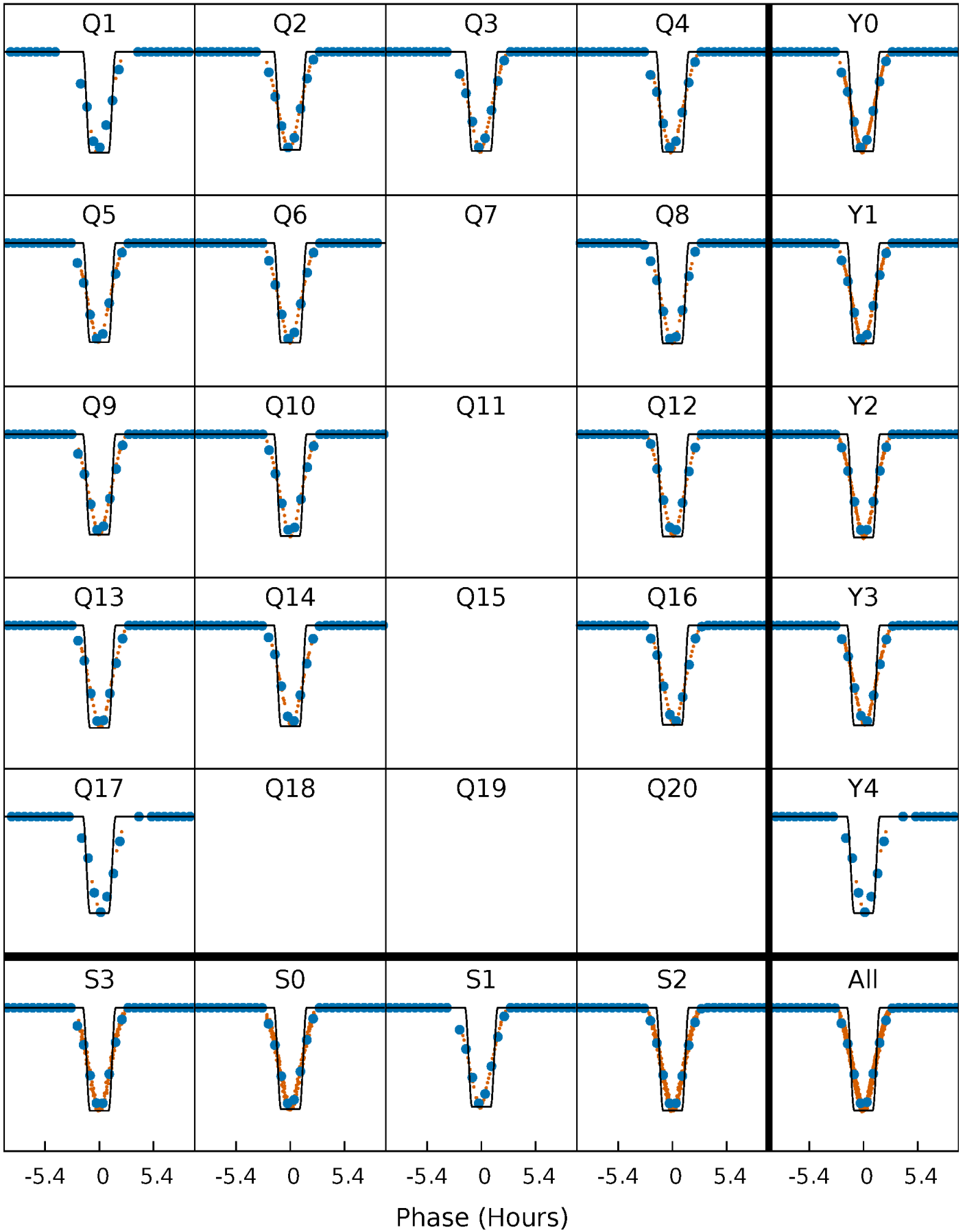
DV Quarter-Phased Transit Curves

TCE 010753734-01 P= 19.406512 Days $T_0=149.813281$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

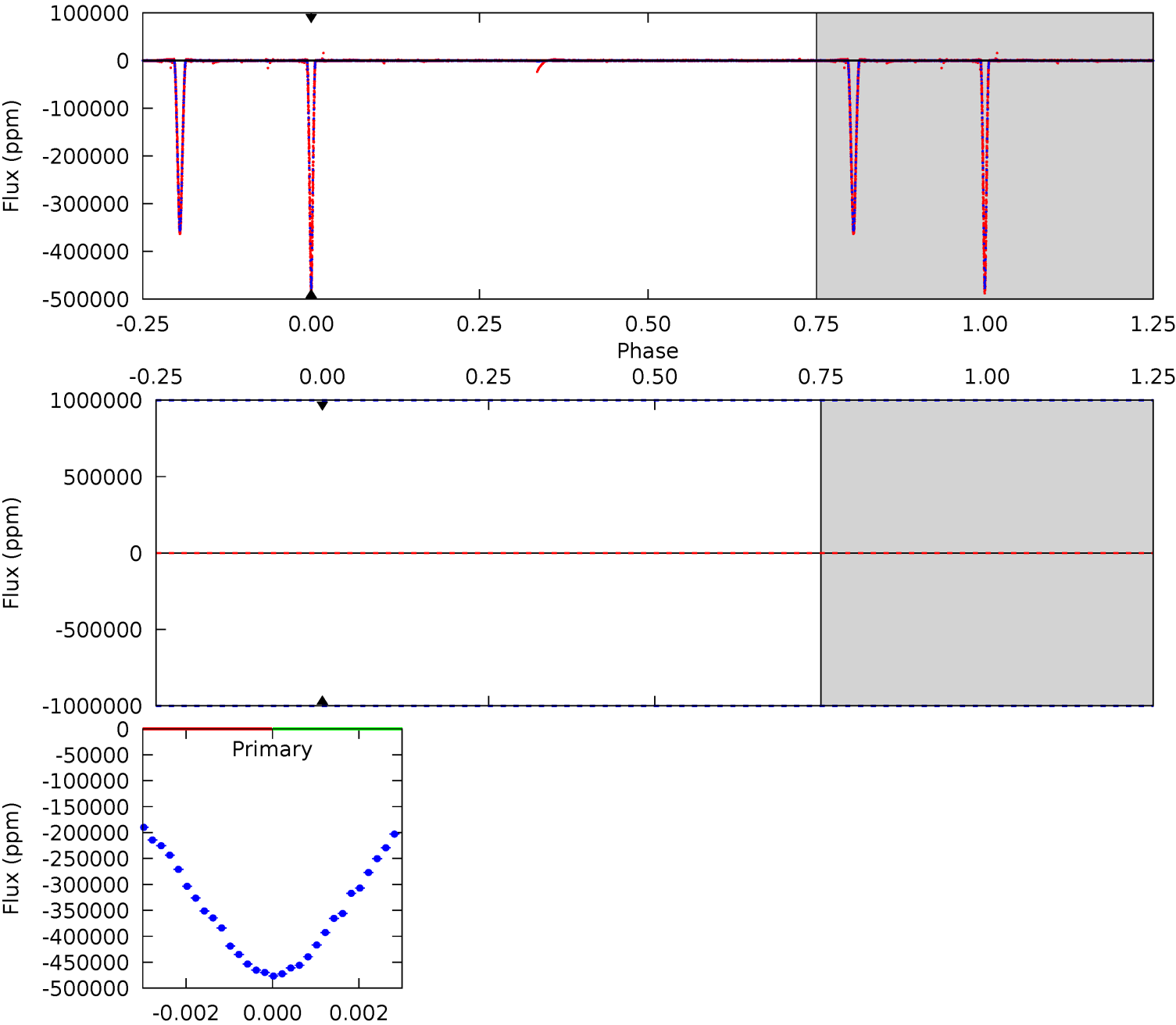
TCE 010753734-01 P= 19.406512 Days $T_0=149.813693$ (BKJD)



DV Model-Shift Uniqueness Test

010753734-01, P = 19.406512 Days, E = 130.406769 Days

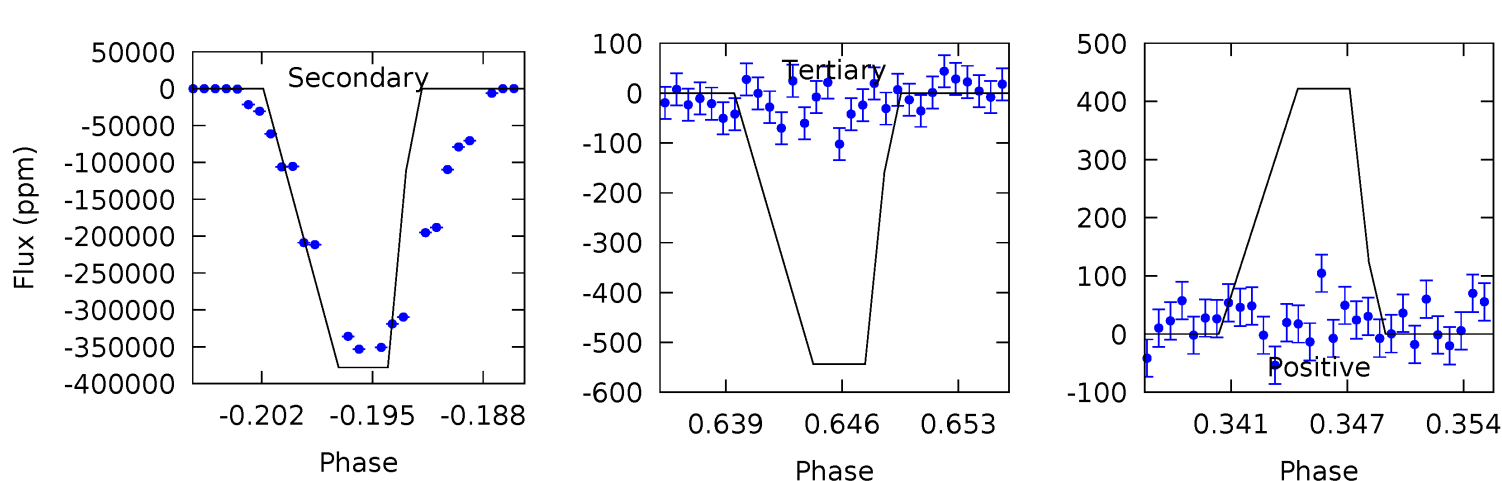
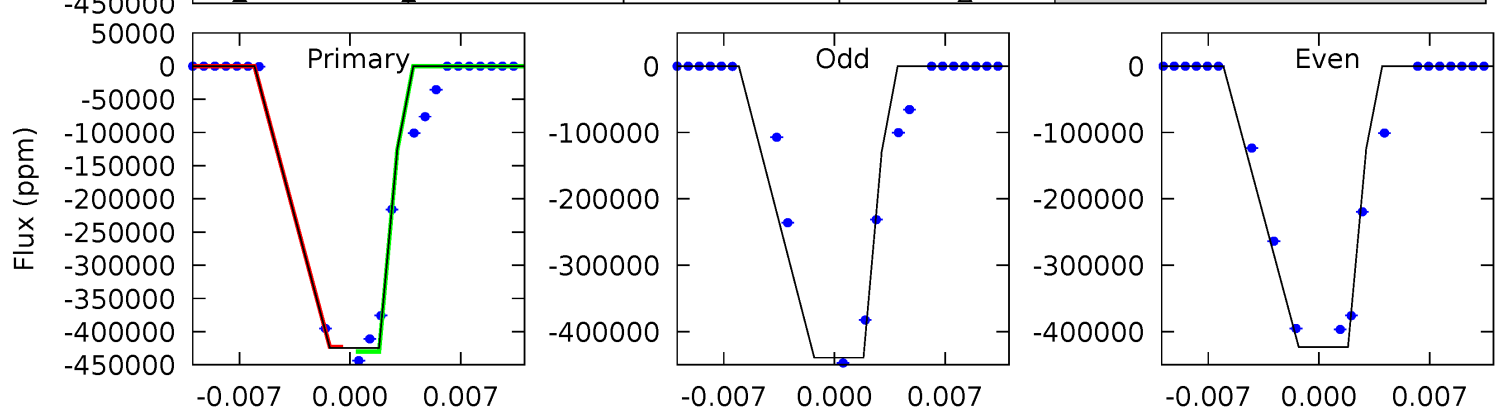
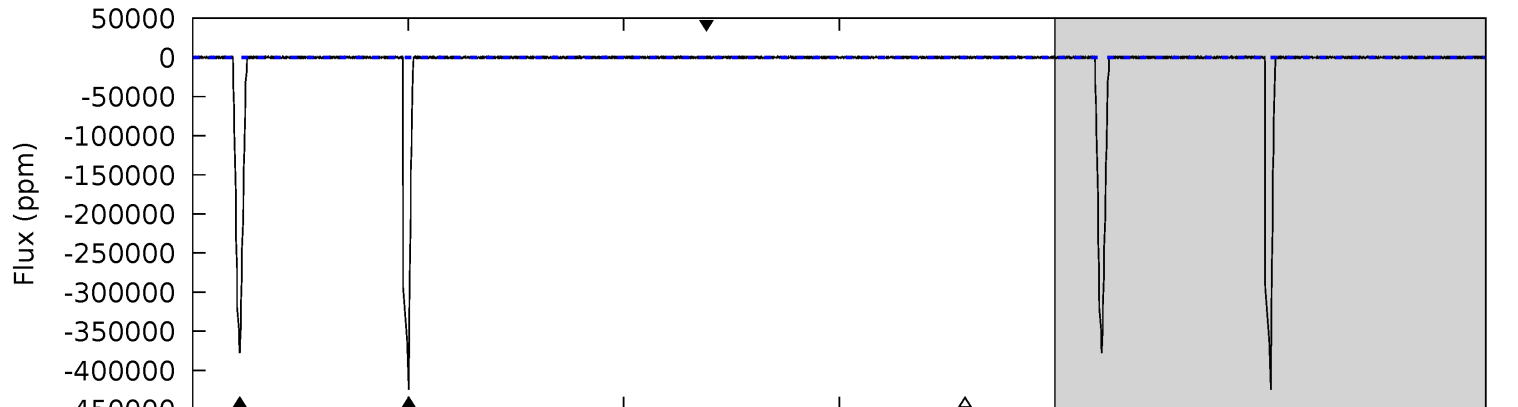
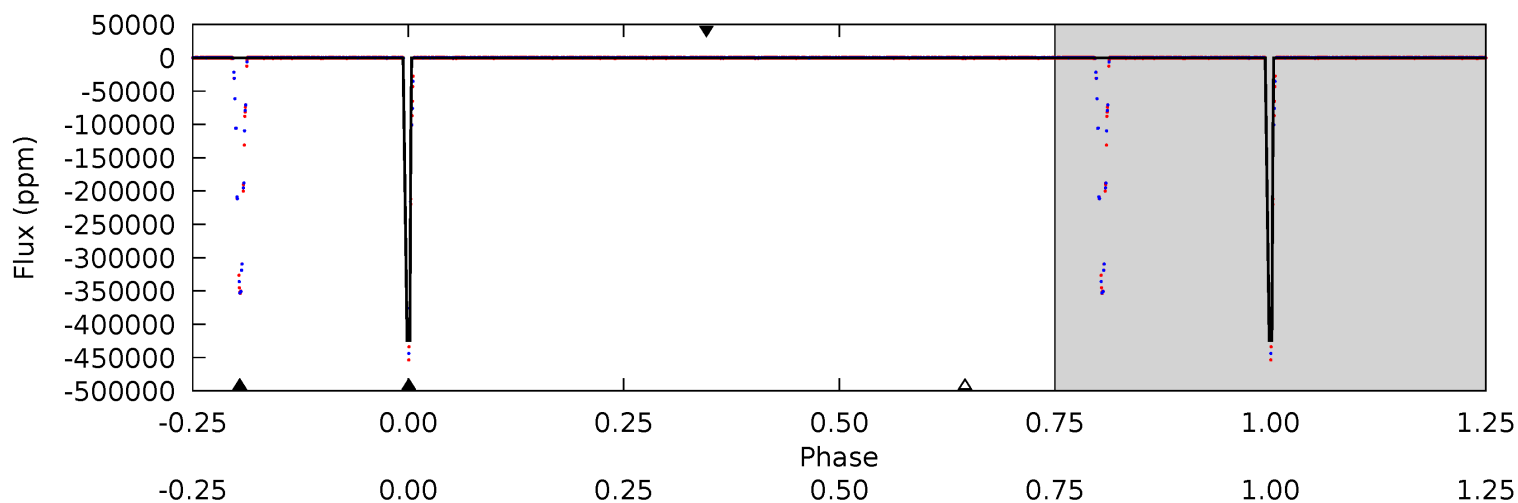
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010753734-01, P = 19.406512 Days, E = 130.407181 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4791	4265	6.14	4.76	5.10	2.70	2.56	4785	4786	4259	4261	38.2	1.00	0.00	0



Stellar Parameters For KIC 010753734

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5622^{+152}_{-152}	$4.588^{+0.038}_{-0.152}$	$-0.340^{+0.300}_{-0.300}$	$0.778^{+0.182}_{-0.061}$	$0.862^{+0.088}_{-0.097}$	$2.580^{+0.496}_{-1.053}$
	+3%/-3%	+1%/-3%	+88%/-88%	+23%/-8%	+10%/-11%	+19%/-41%
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 010753734-01 / KOI 7371.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$43.53^{+9.87}_{-8.99}$	850^{+46}_{-33}	2799^{+2020}_{-7445}	19^{+580}_{-538}
Alt.	-377949 ± 89	$61.37^{+9.61}_{-10.08}$	851^{+47}_{-35}	5949^{+485}_{-392}	1586^{+650}_{-410}

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 $A_{obs} \gg 1.0$

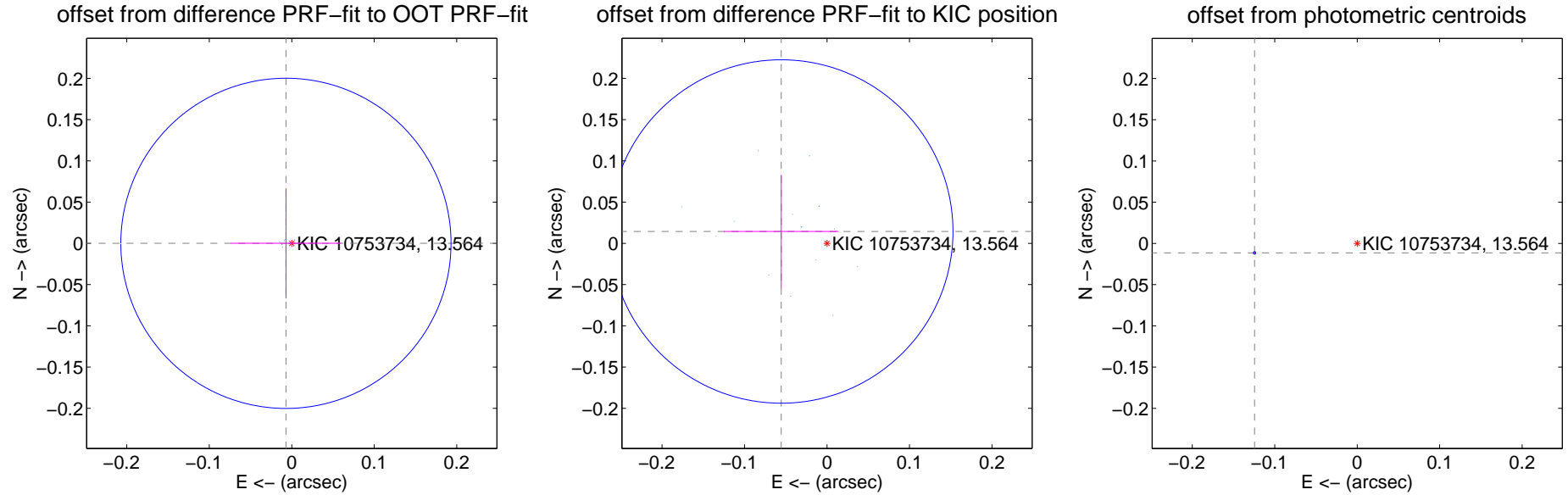
DV Centroid Data

Supplemental centroid analysis for 010753734-01. Kepler magnitude: 13.56. Transit SNR -1.00

There are 14 quarters with good PRF difference image offsets

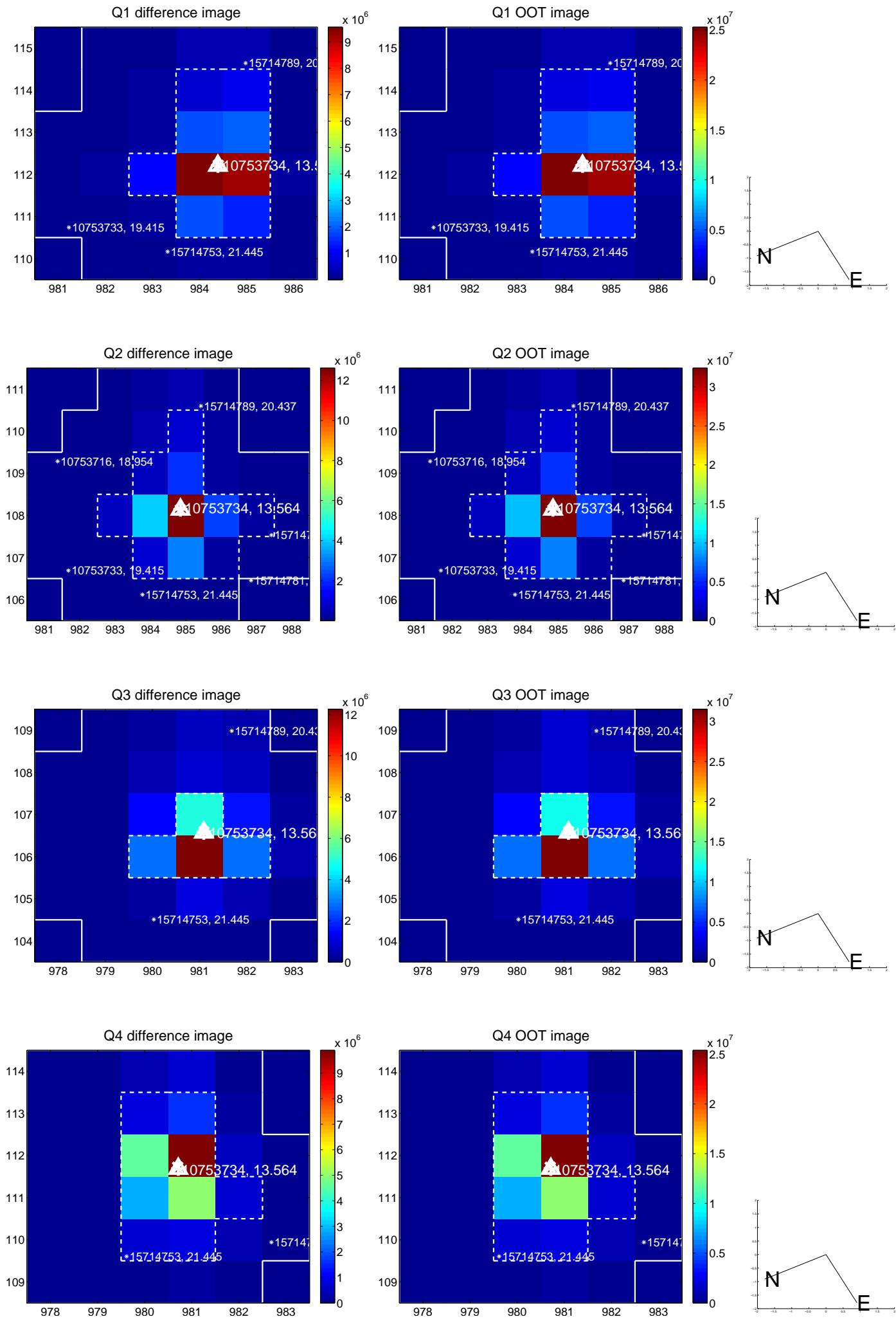
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.007 ± 0.067	0.11	0.007 ± 0.067	0.000 ± 0.067
PRF-fit source offset from KIC position	0.057 ± 0.069	0.83	0.055 ± 0.069	0.014 ± 0.069
photometric centroid source offset	0.12 ± 0.00	255.38	0.12 ± 0.00	-0.01 ± 0.00

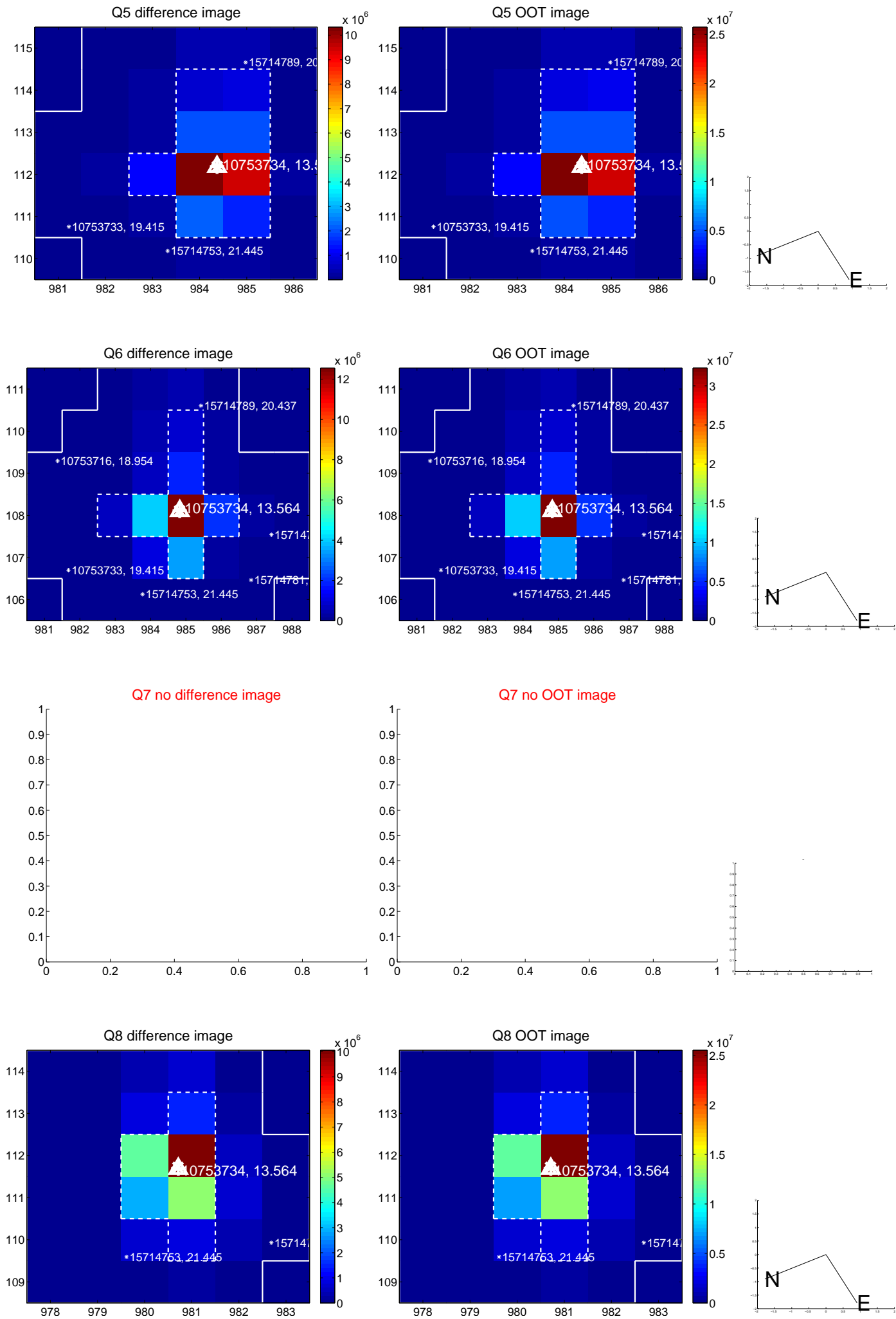


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

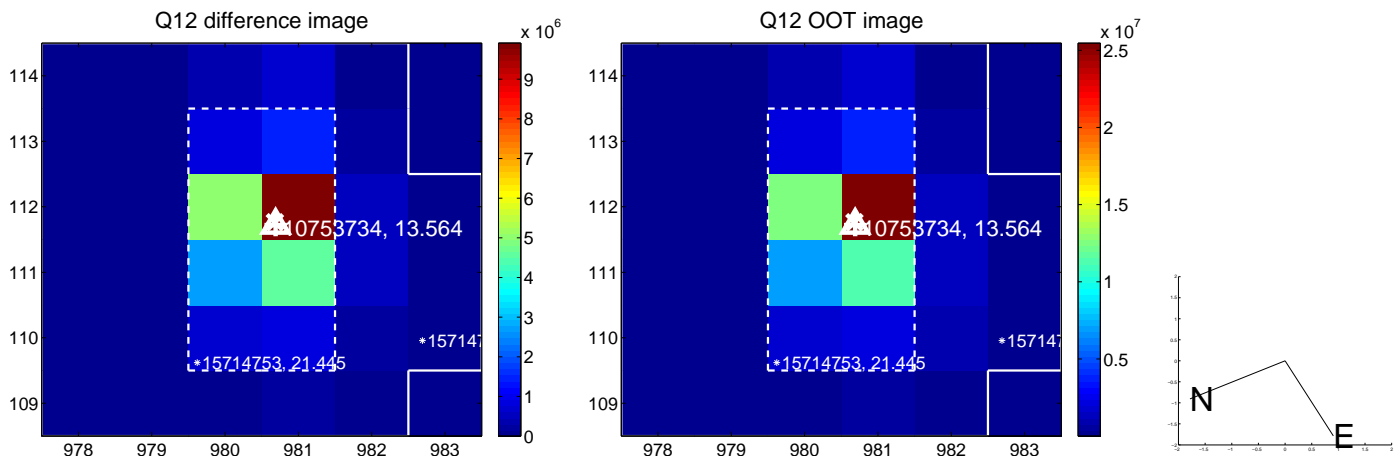
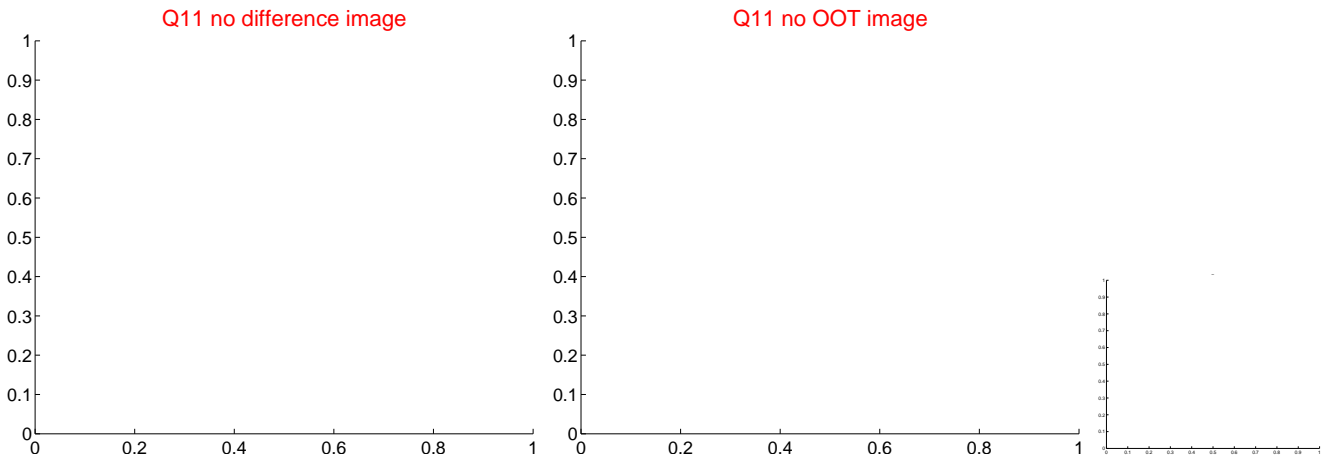
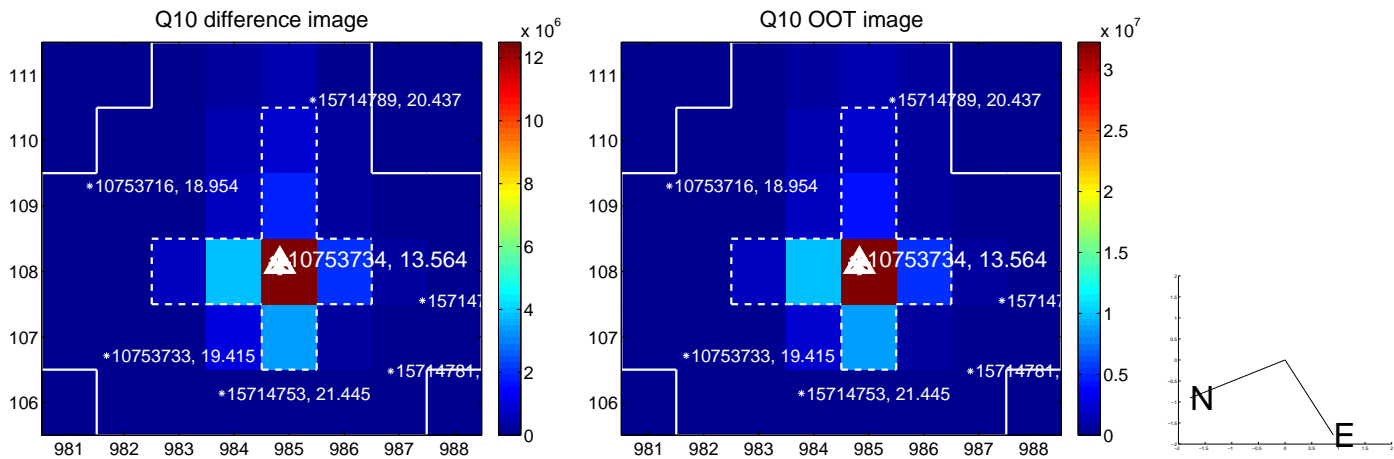
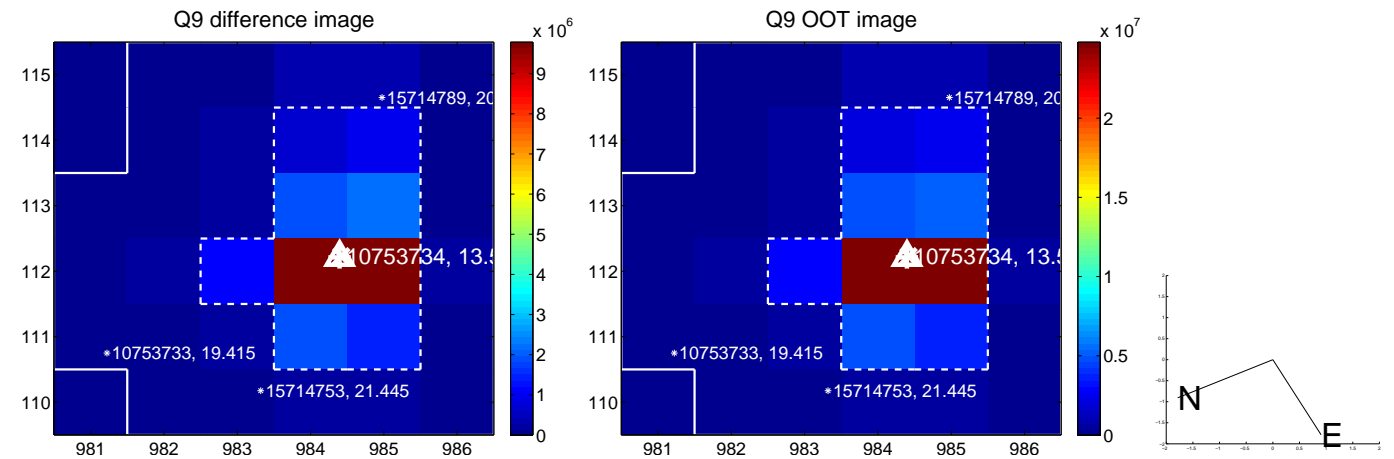
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



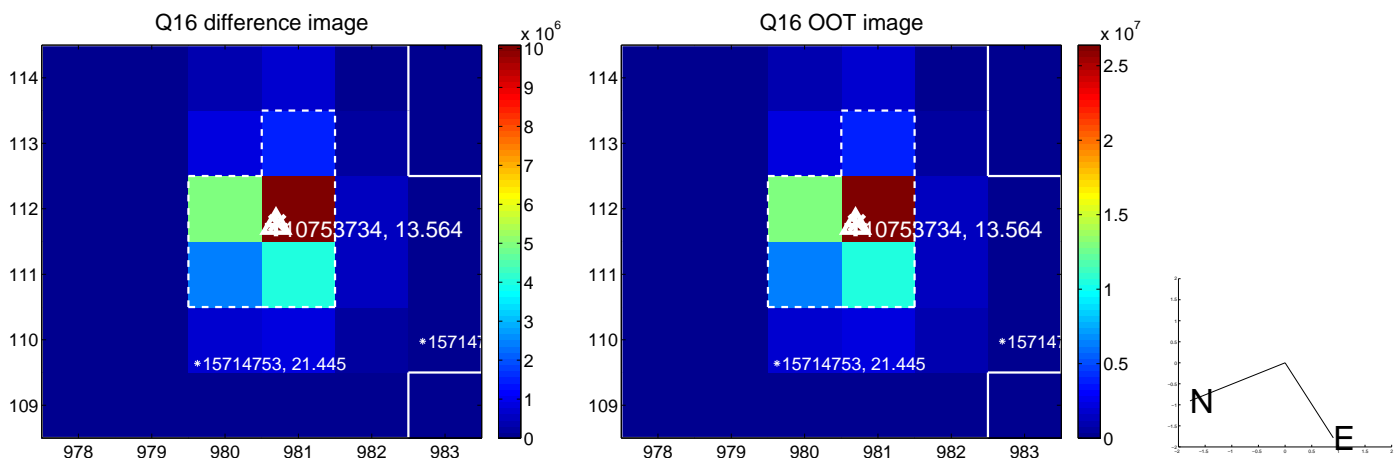
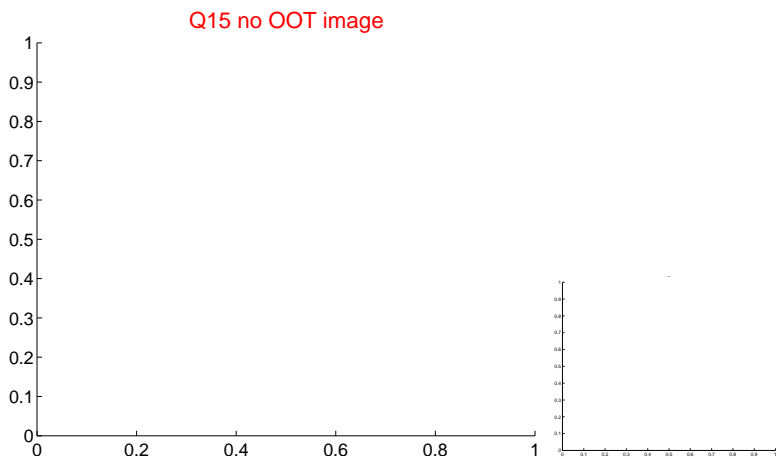
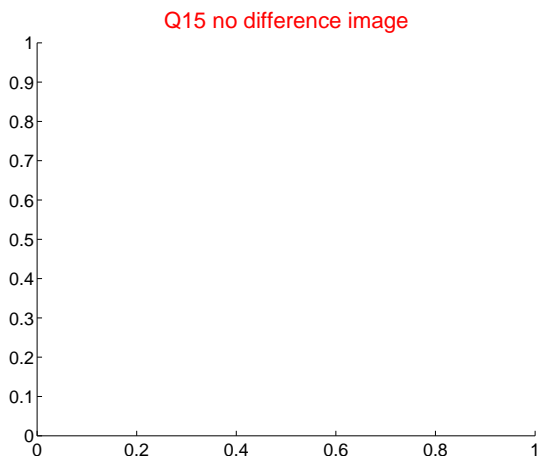
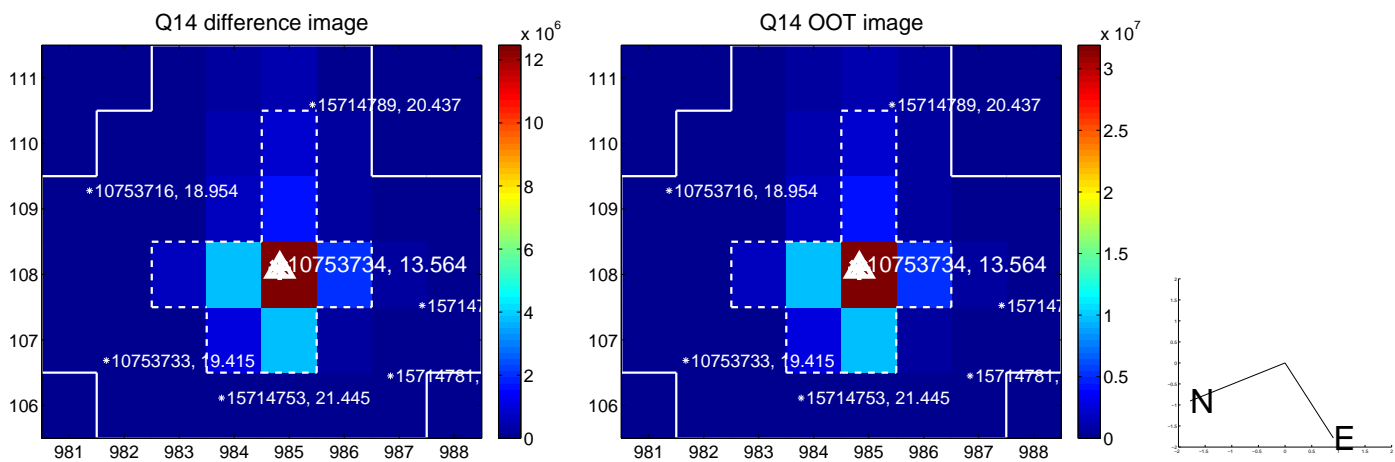
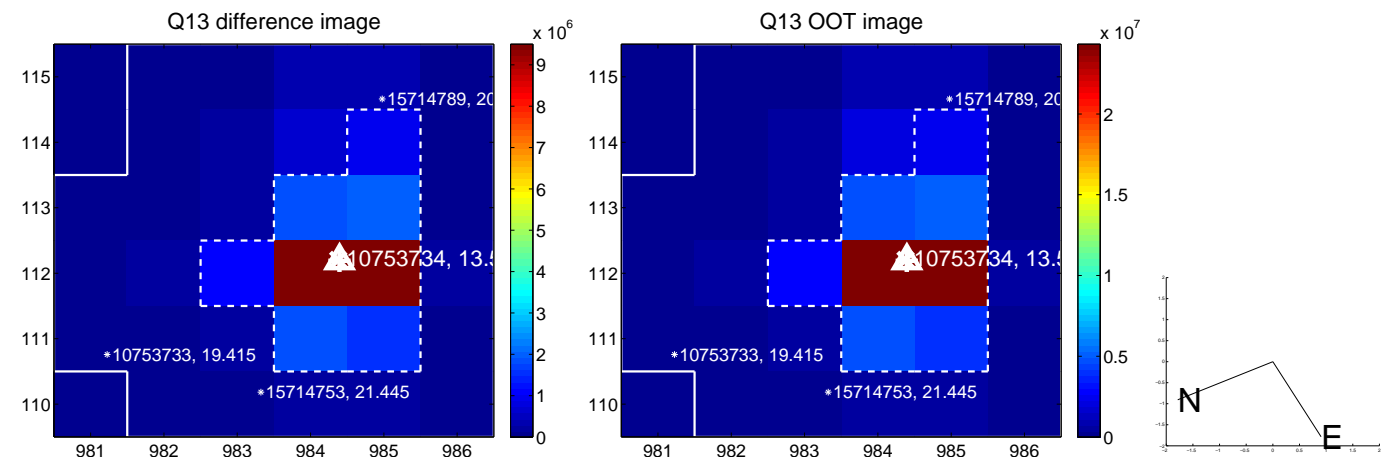
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



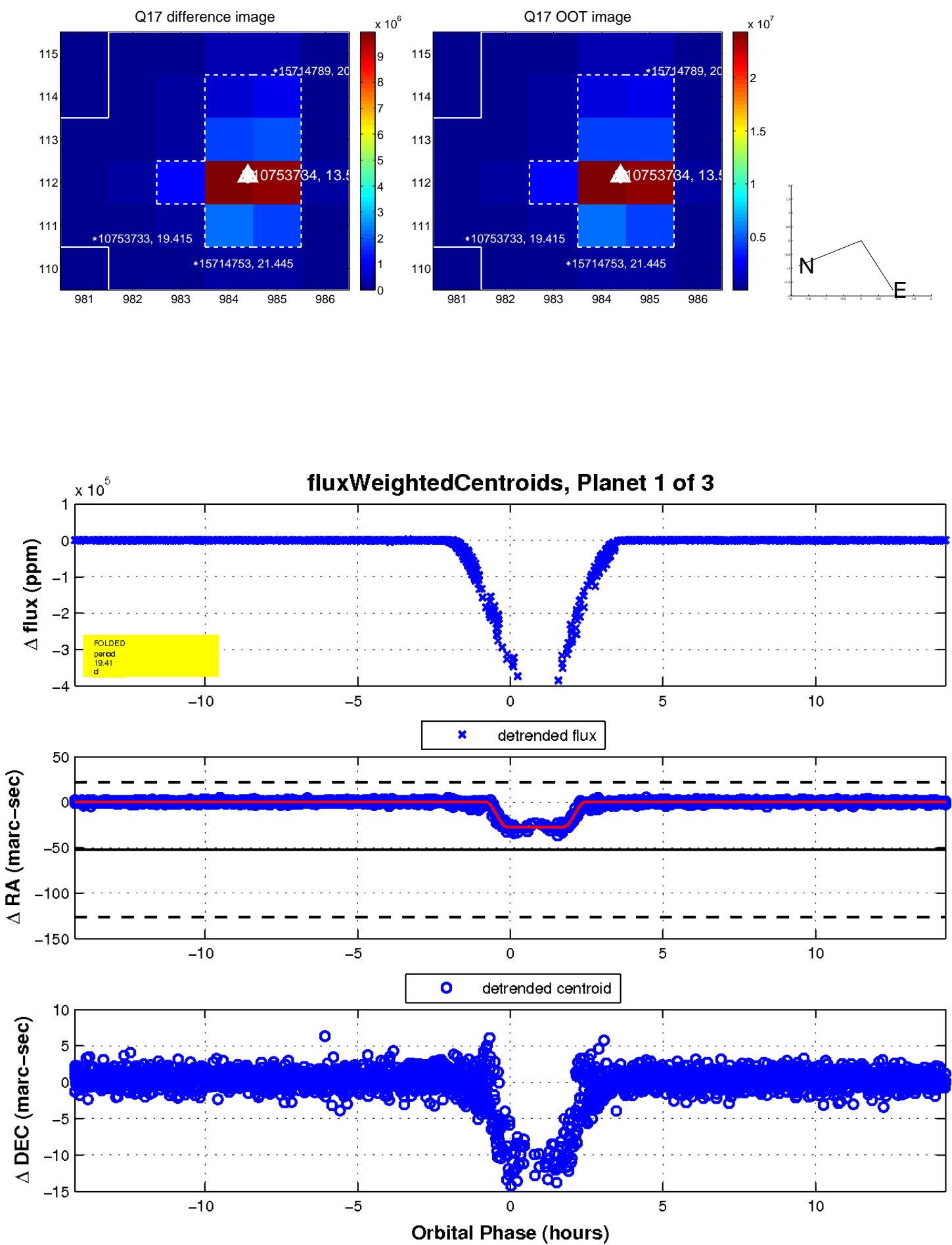
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

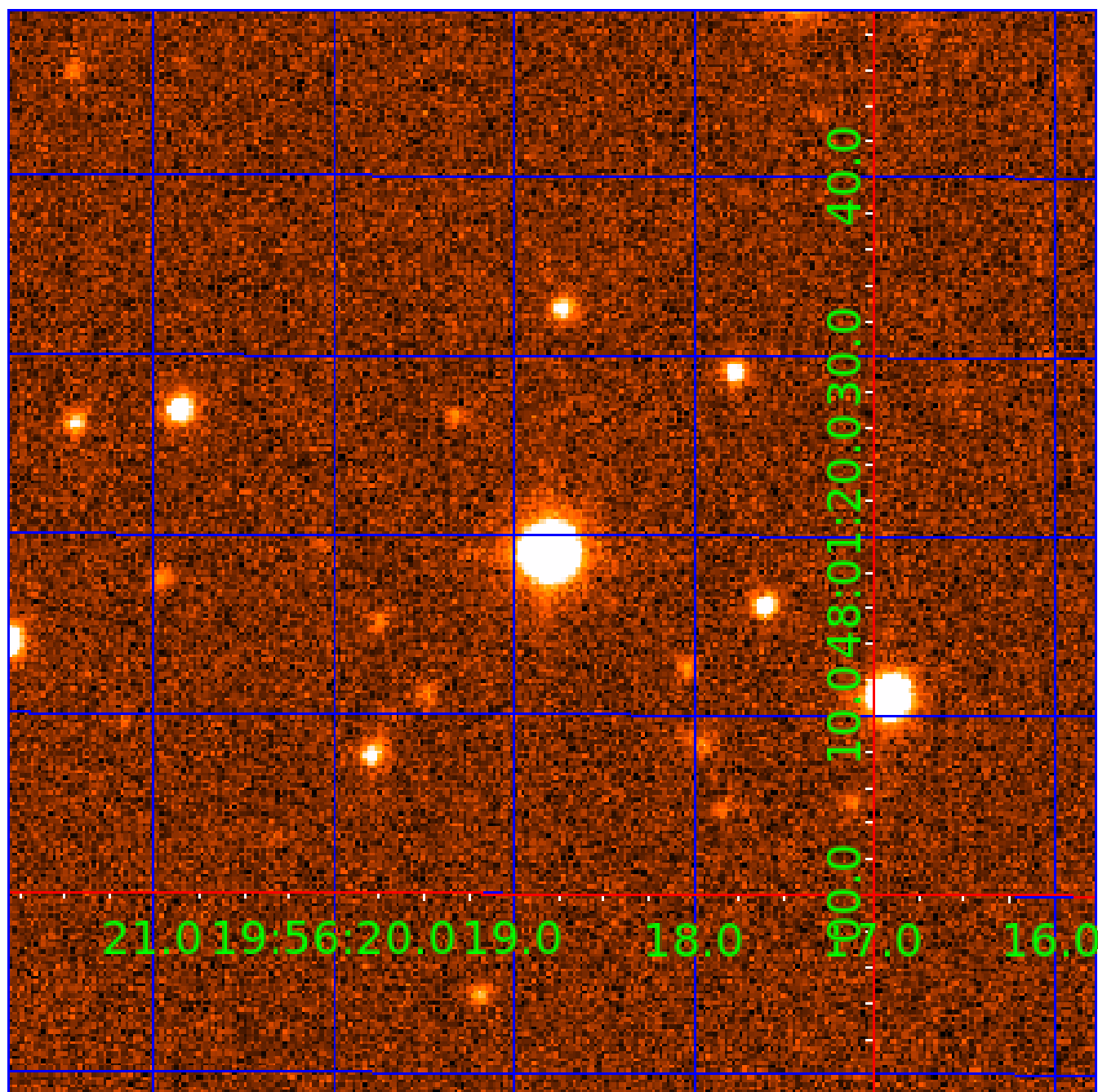


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010753734

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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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010753734-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
010753734-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
010753734-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—RESIDUAL_TCE—CENT_NOFITS

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 010753734-02

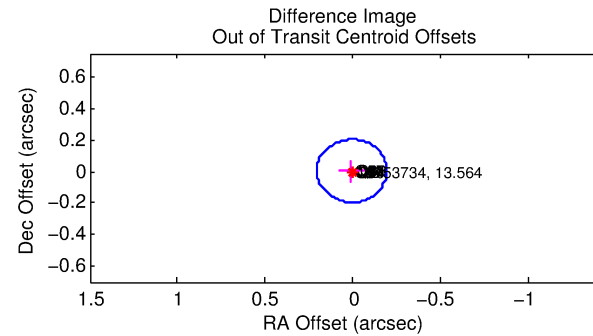
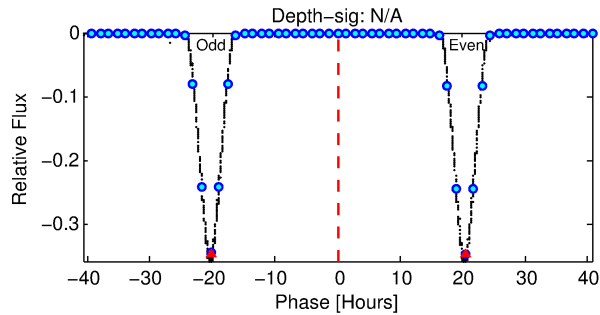
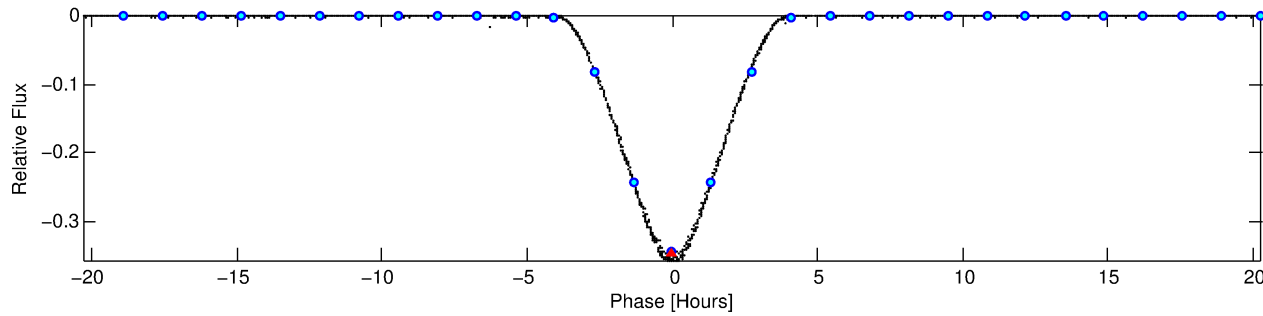
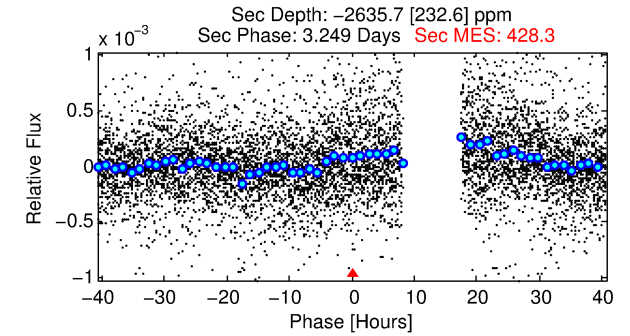
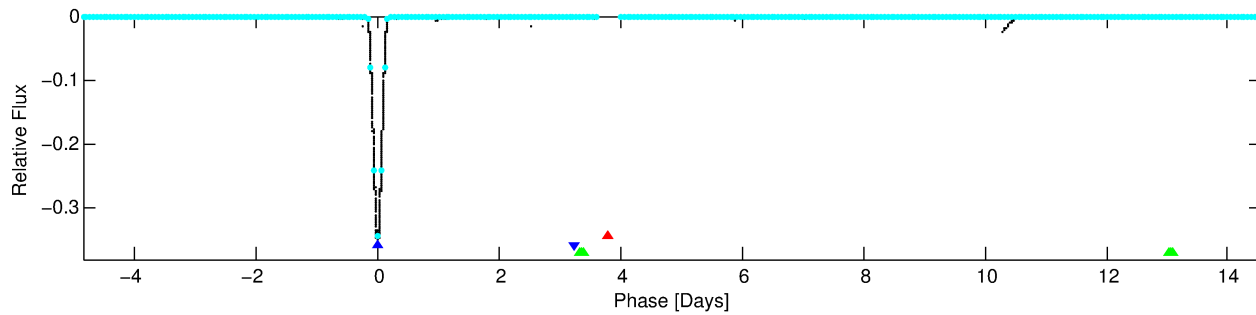
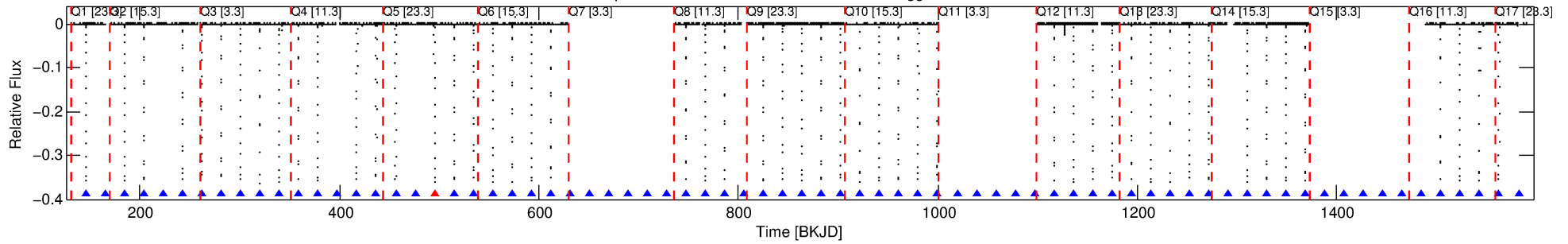
No Significant Match Found

DV One-Page Summary

KIC: 10753734 Candidate: 2 of 3 Period: 19.407 d

KOI: K07371 Corr: No Ephemeris Match

Kp: 13.56 R*: 0.78 Rs Teff: 5622.0 K Logg: 4.59 Fe/H: -0.340



TPS TCE Results:

Period = 19.40667 d
Epoch = 146.0256 BKJD

DV fit results are unavailable

DV Diagnostic Results:

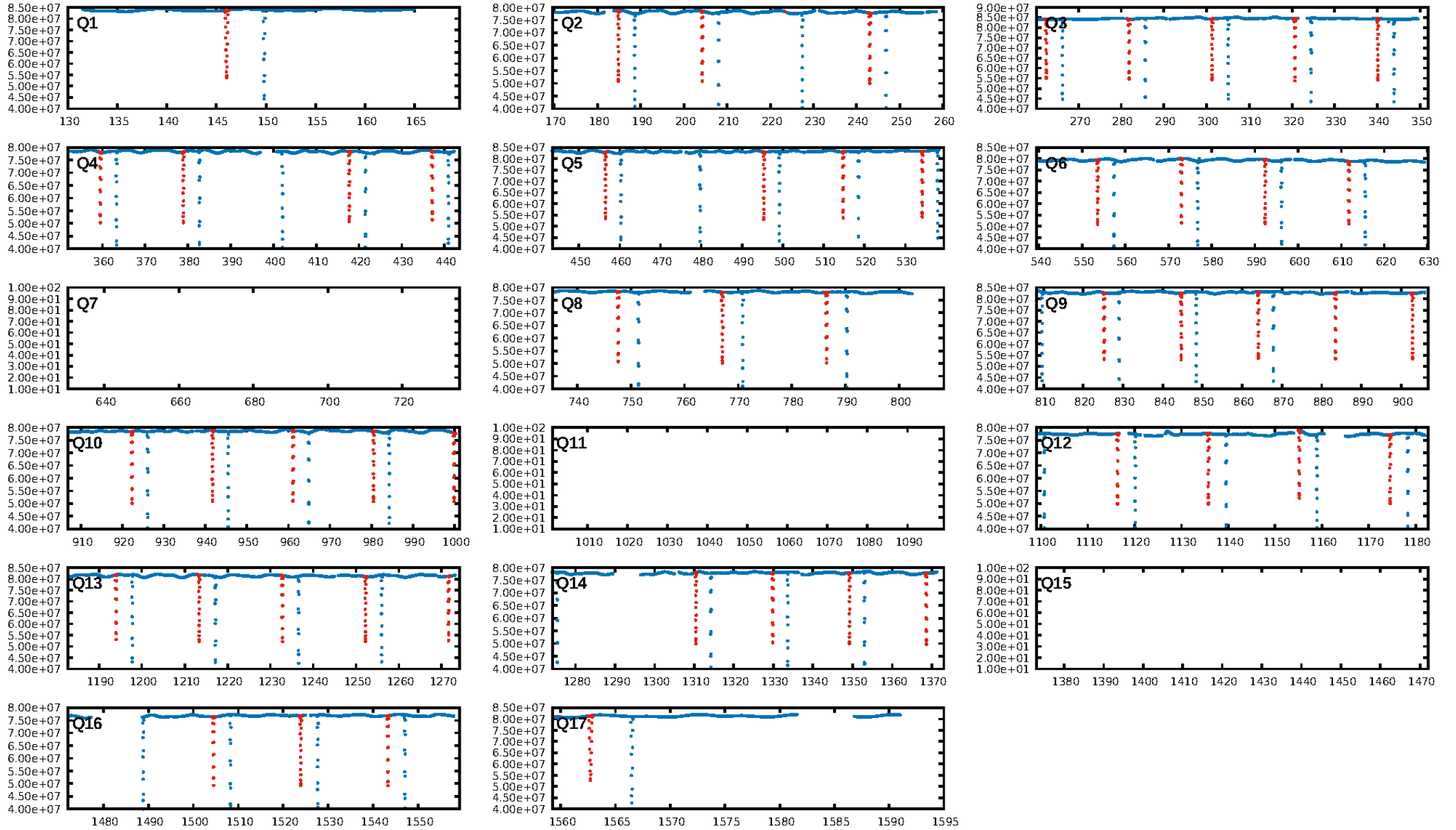
ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [48/49]
GhostDiagnostic-chr: 1.108

Centroid-sig: N/A
Centroid-so: 0.128 arcsec [233.87 σ]
OotOffset-rm: 0.009 arcsec [0.13 σ]
KicOffset-rm: 0.055 arcsec [0.80 σ]
OotOffset-st: 4/1/4/5 [14]
KicOffset-st: 4/1/4/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 1.00 [14/14]

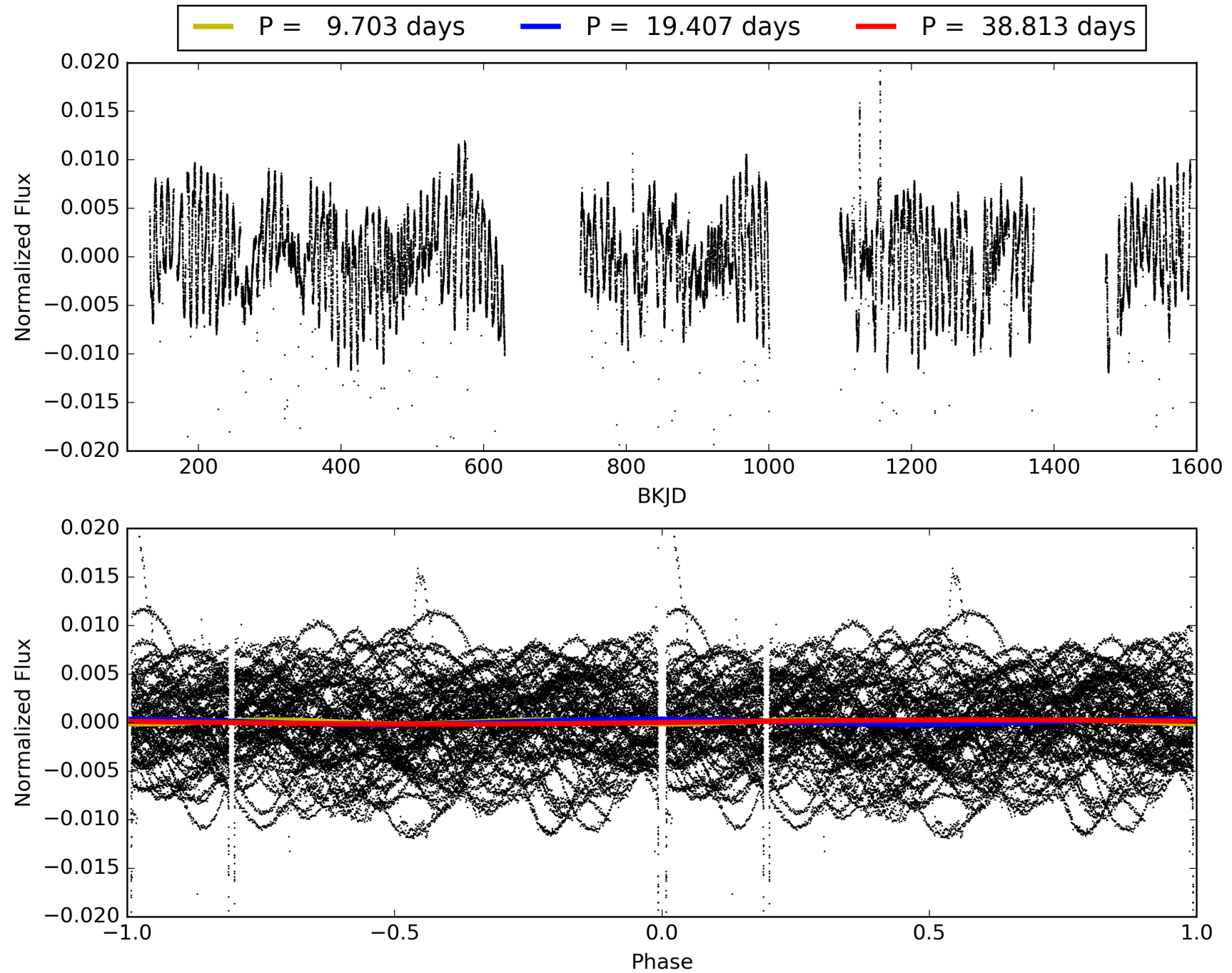
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:09:49 Z

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TCE 010753734-02, PDC Light Curves

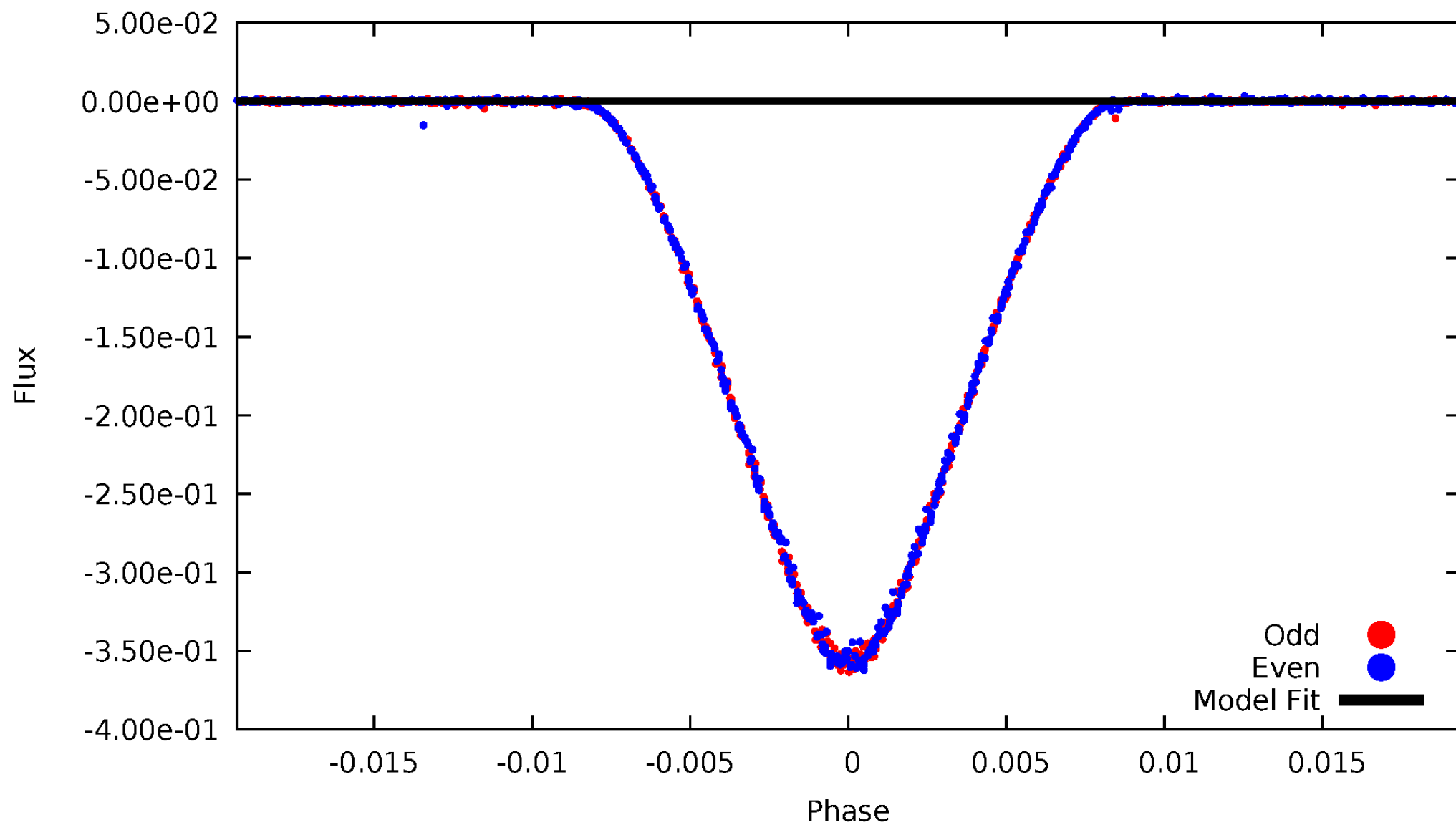


TCE 010753734-02



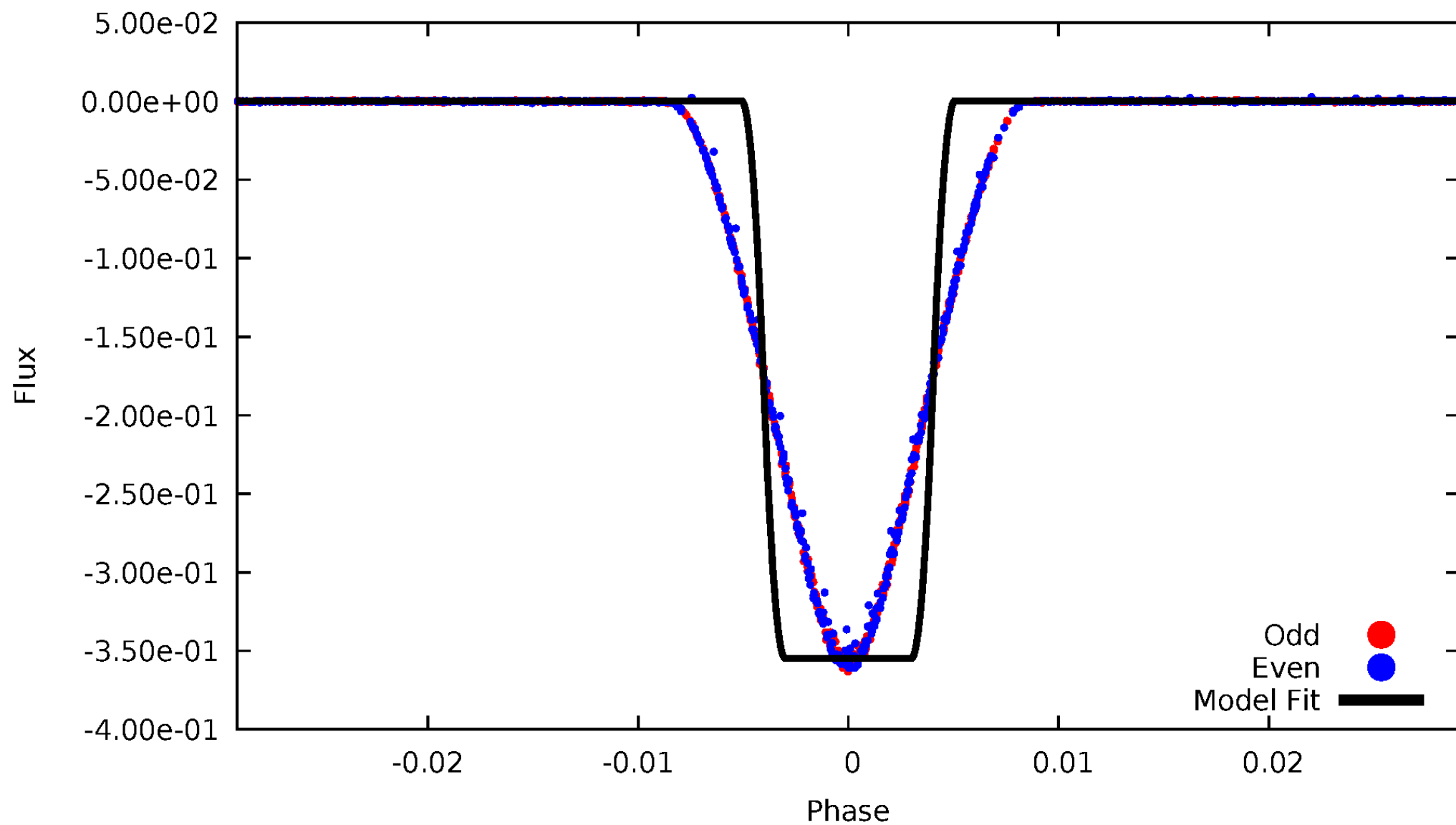
DV Odd/Even

TCE 010753734-02



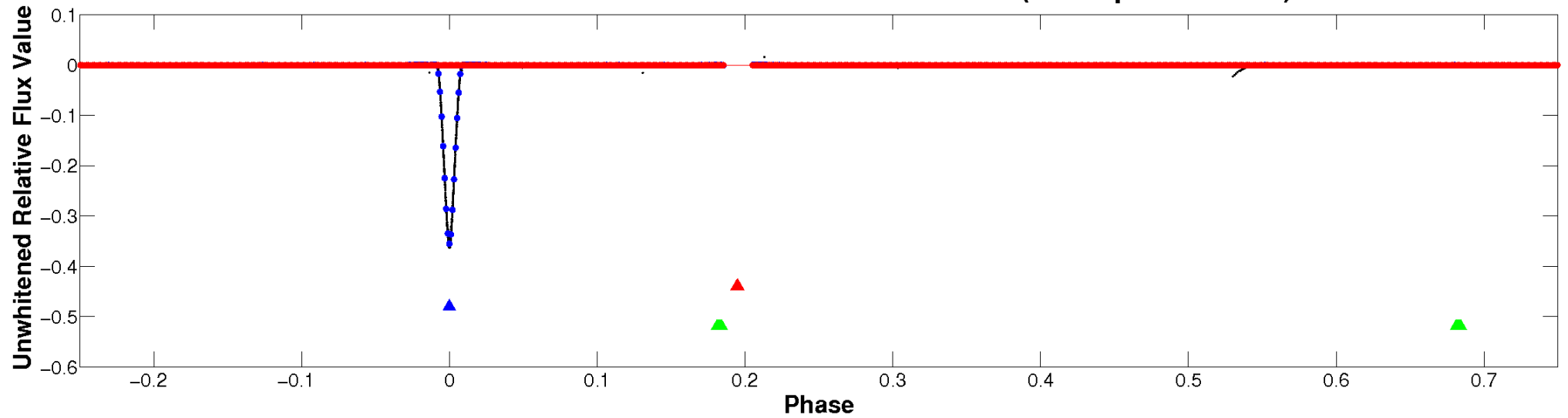
ALT Odd/Even

TCE 010753734-02

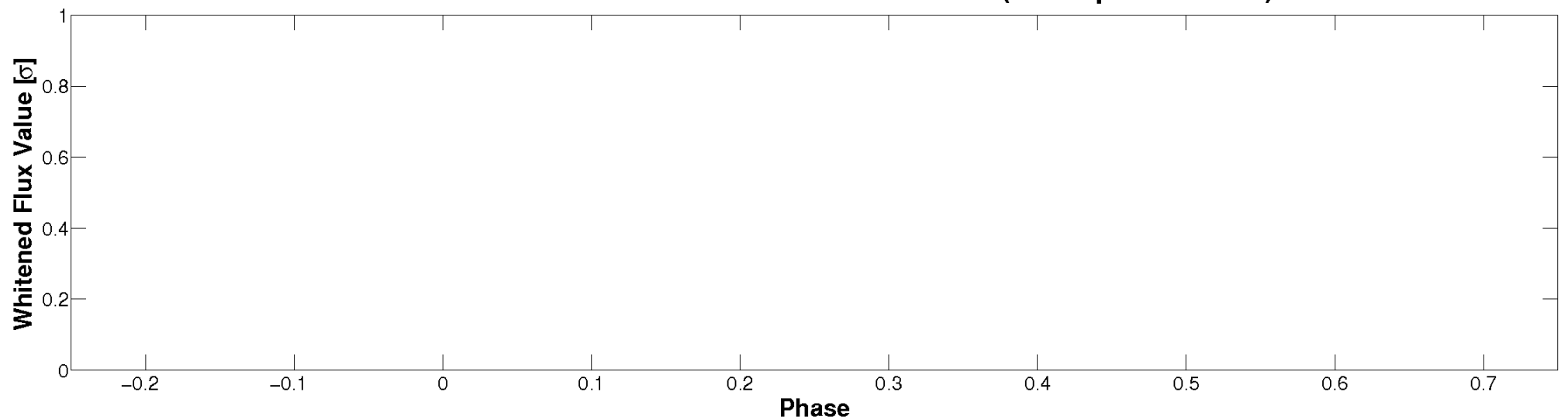


Non-Whitened Vs. Whitened Light Curve

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

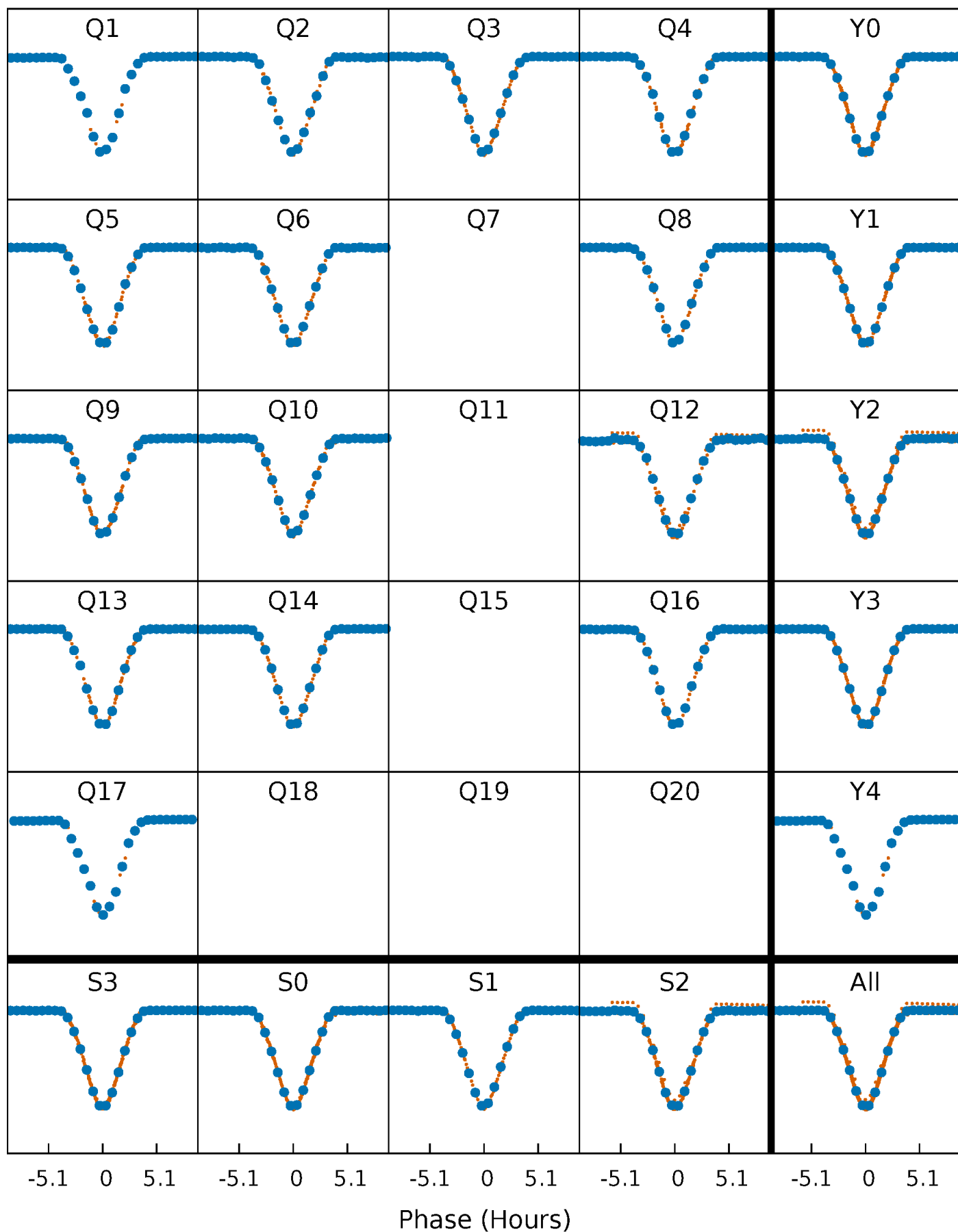


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



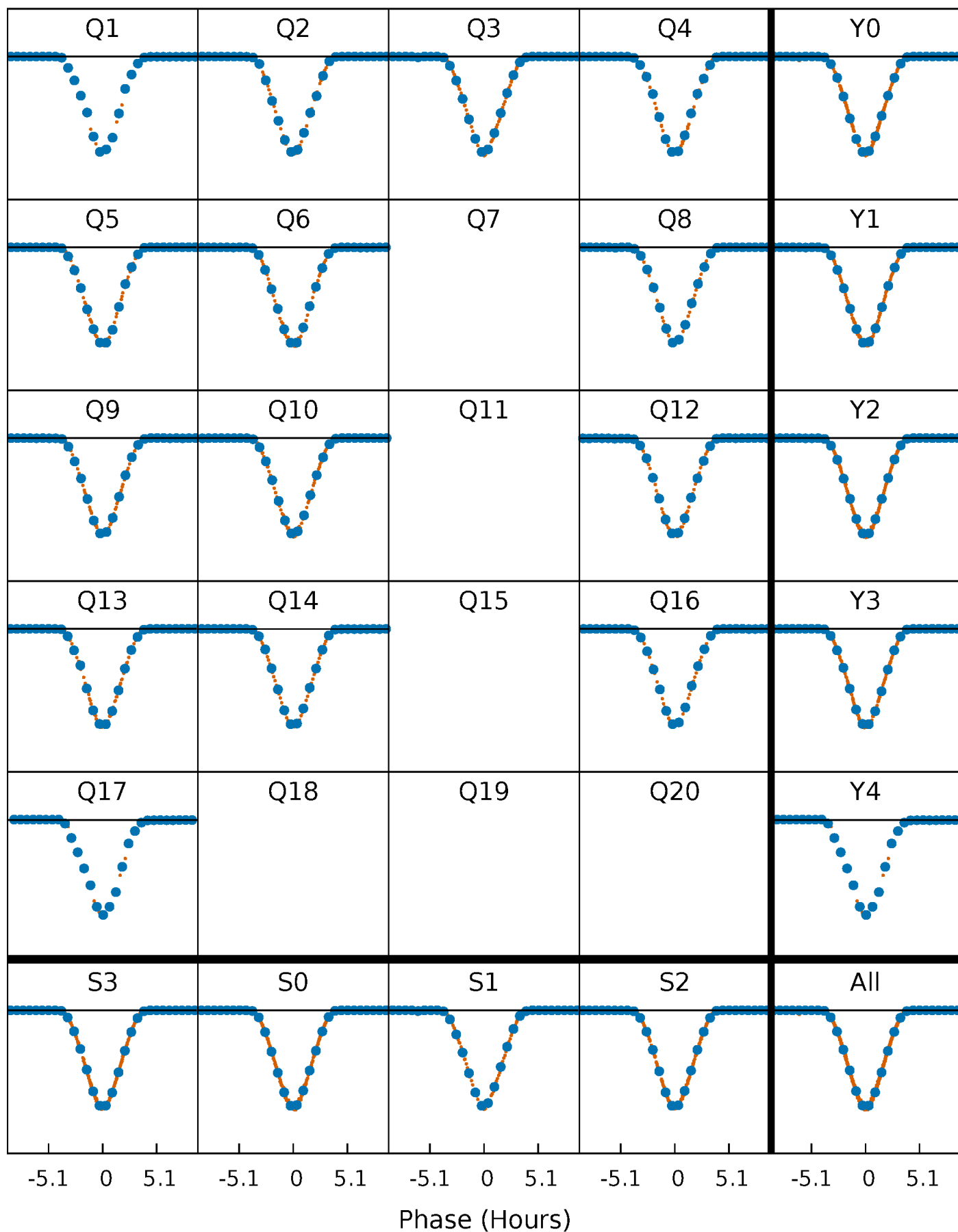
PDC Quarter-Phased Transit Curves

TCE 010753734-02 P= 19.406668 Days $T_0=146.025633$ (BKJD)



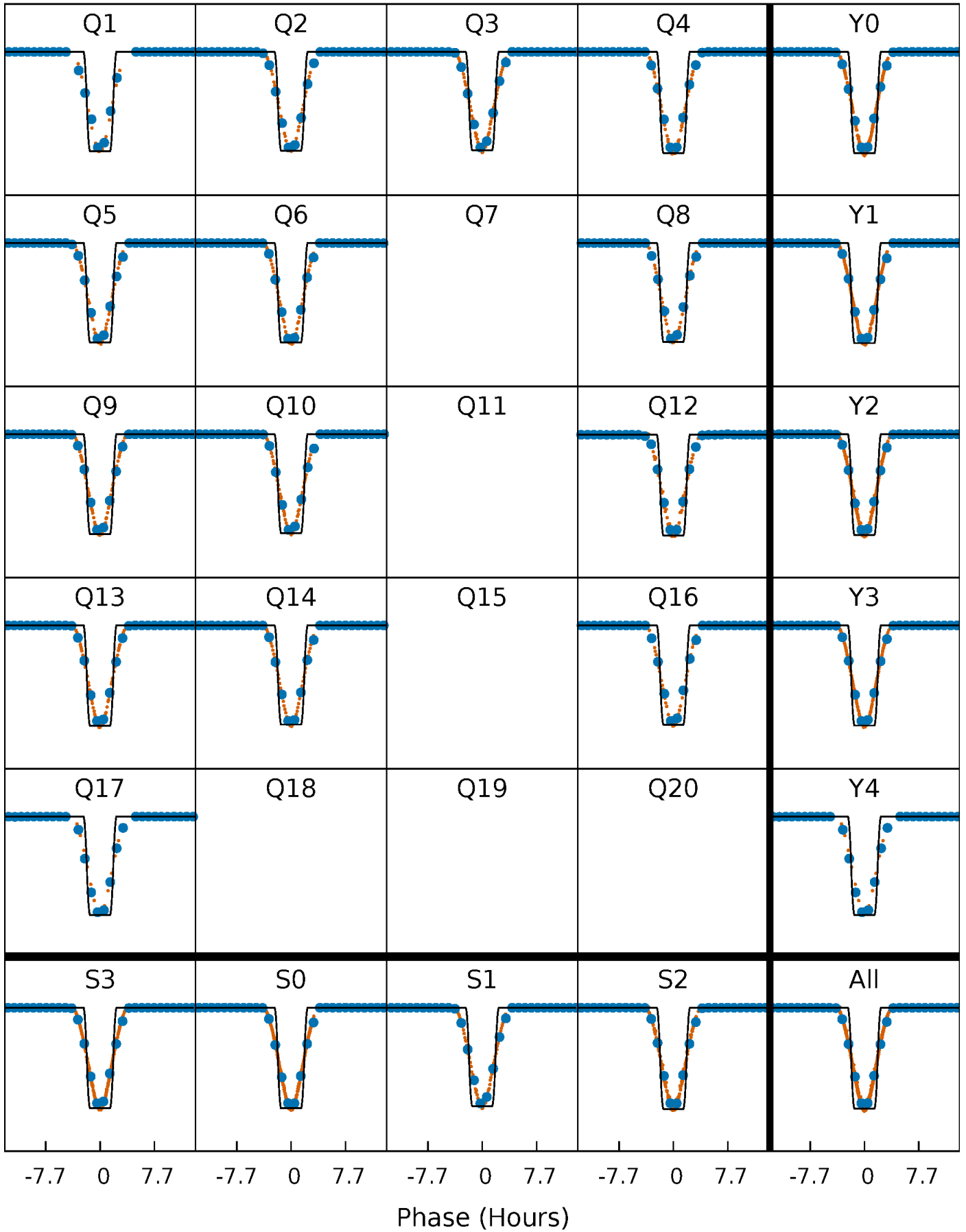
DV Quarter-Phased Transit Curves

TCE 010753734-02 P= 19.406668 Days $T_0=146.025633$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

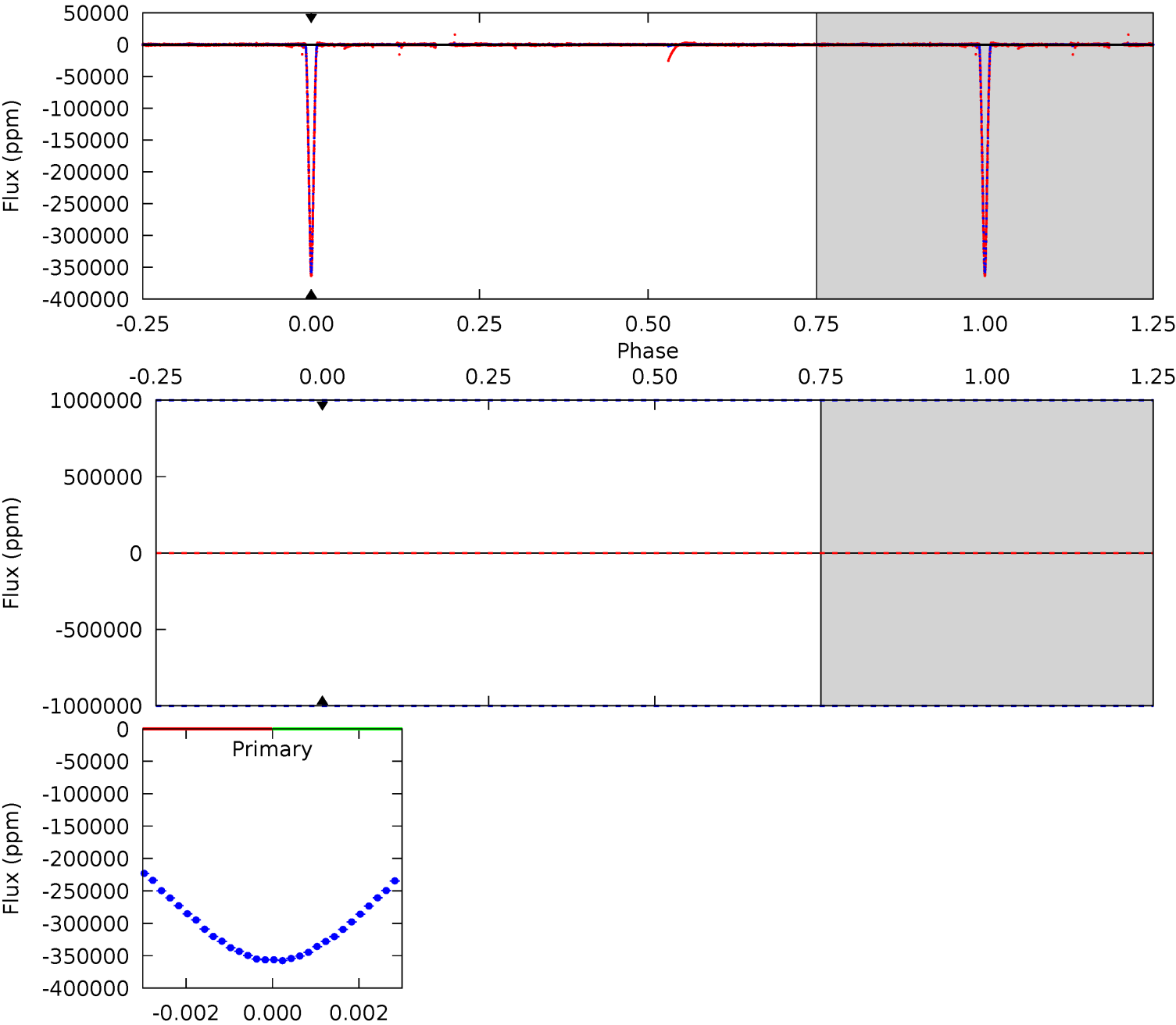
TCE 010753734-02 P= 19.406668 Days $T_0=146.026241$ (BKJD)



DV Model-Shift Uniqueness Test

010753734-02, P = 19.406668 Days, E = 126.618965 Days

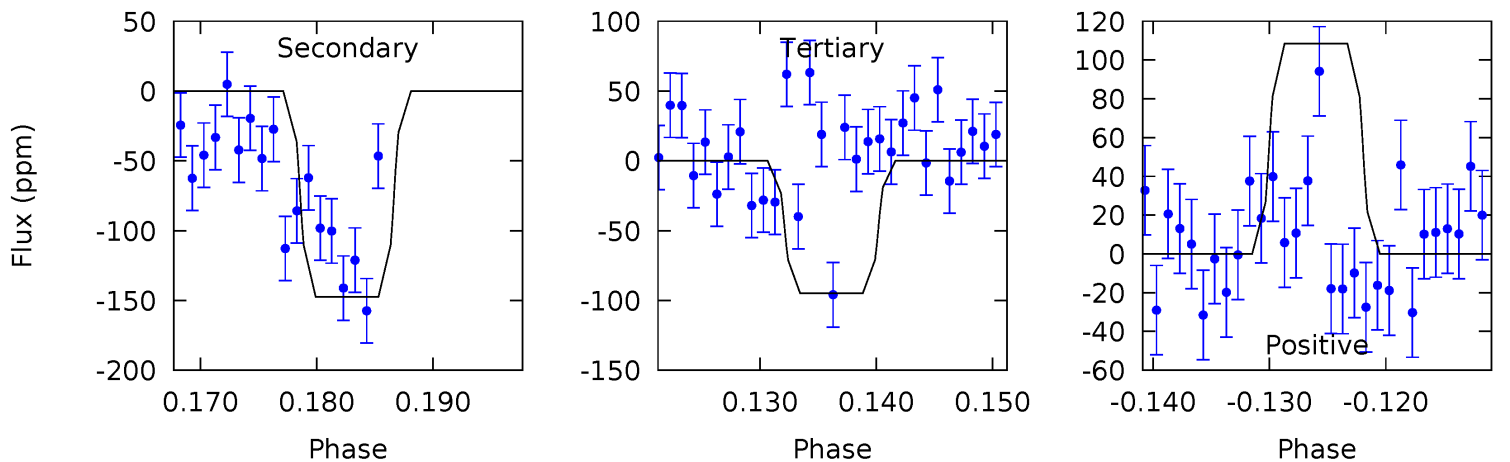
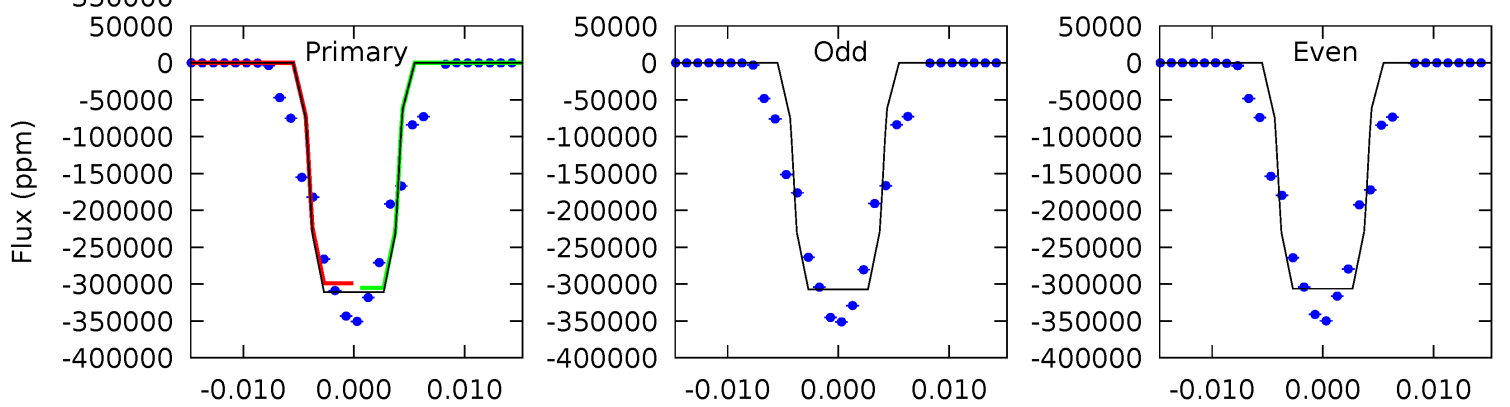
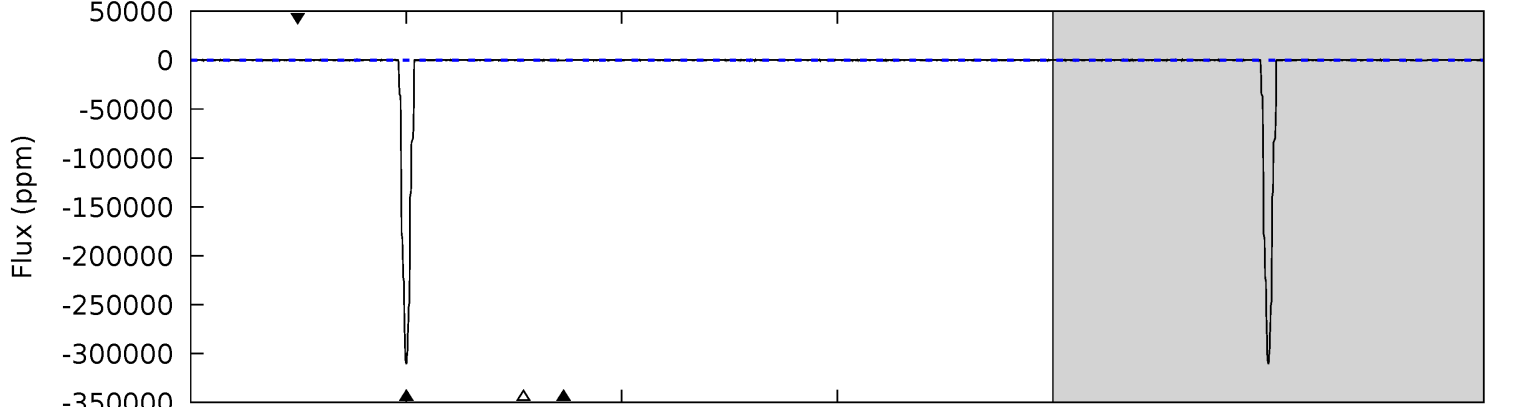
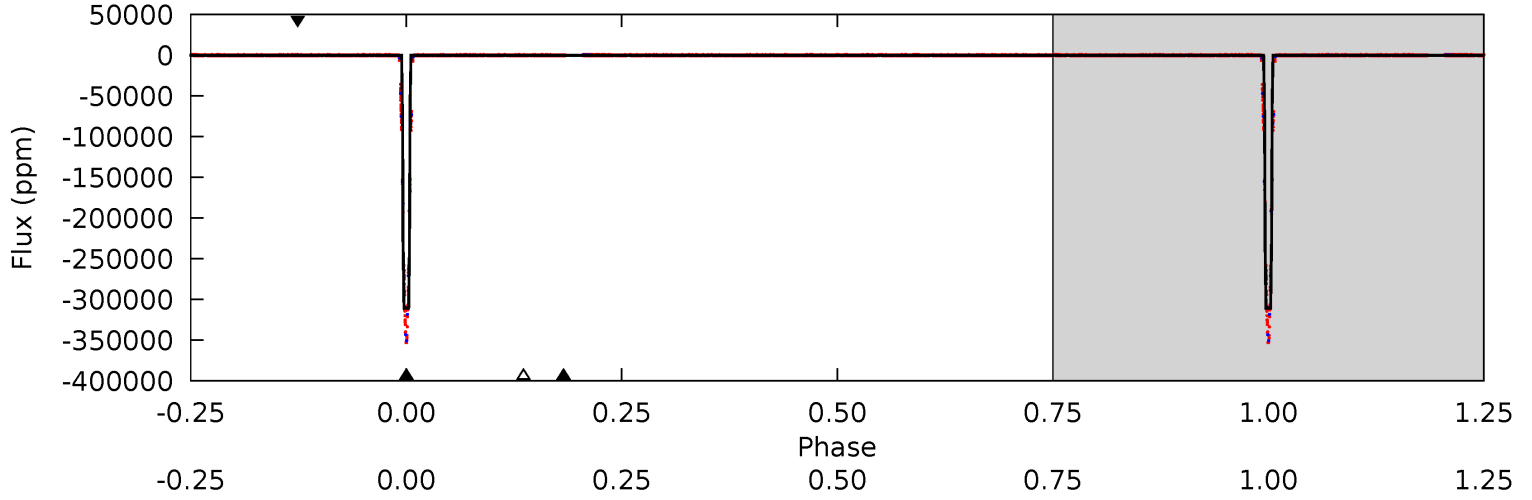
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010753734-02, P = 19.406668 Days, E = 126.619573 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12213	5.79	3.72	4.26	5.03	2.58	1.24	12210	12209	2.07	1.53	18.8	1.00	0.00	0



Stellar Parameters For KIC 010753734

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5622^{+152}_{-152}	$4.588^{+0.038}_{-0.152}$	$-0.340^{+0.300}_{-0.300}$	$0.778^{+0.182}_{-0.061}$	$0.862^{+0.088}_{-0.097}$	$2.580^{+0.496}_{-1.053}$
	$+3\%/-3\%$	$+1\%/-3\%$	$+88\%/-88\%$	$+23\%/-8\%$	$+10\%/-11\%$	$+19\%/-41\%$
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 010753734-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$40.13^{+9.65}_{-9.35}$	850^{+46}_{-34}	-2700^{+7724}_{-2067}	$-19.262^{+791.272}_{-586.541}$
Alt.	-147 ± 25	$52.77^{+9.94}_{-9.47}$	849^{+48}_{-33}	1688^{+131}_{-189}	$0.512^{+0.281}_{-0.159}$

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

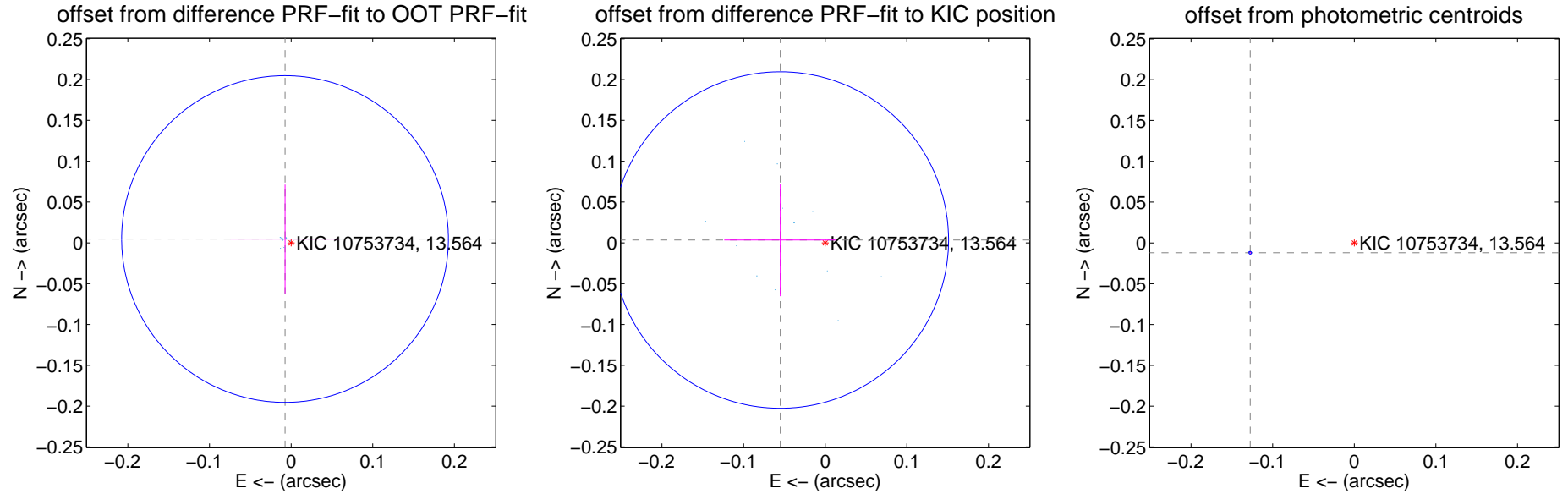
DV Centroid Data

Supplemental centroid analysis for 010753734-02. Kepler magnitude: 13.56. Transit SNR -1.00

There are 14 quarters with good PRF difference image offsets

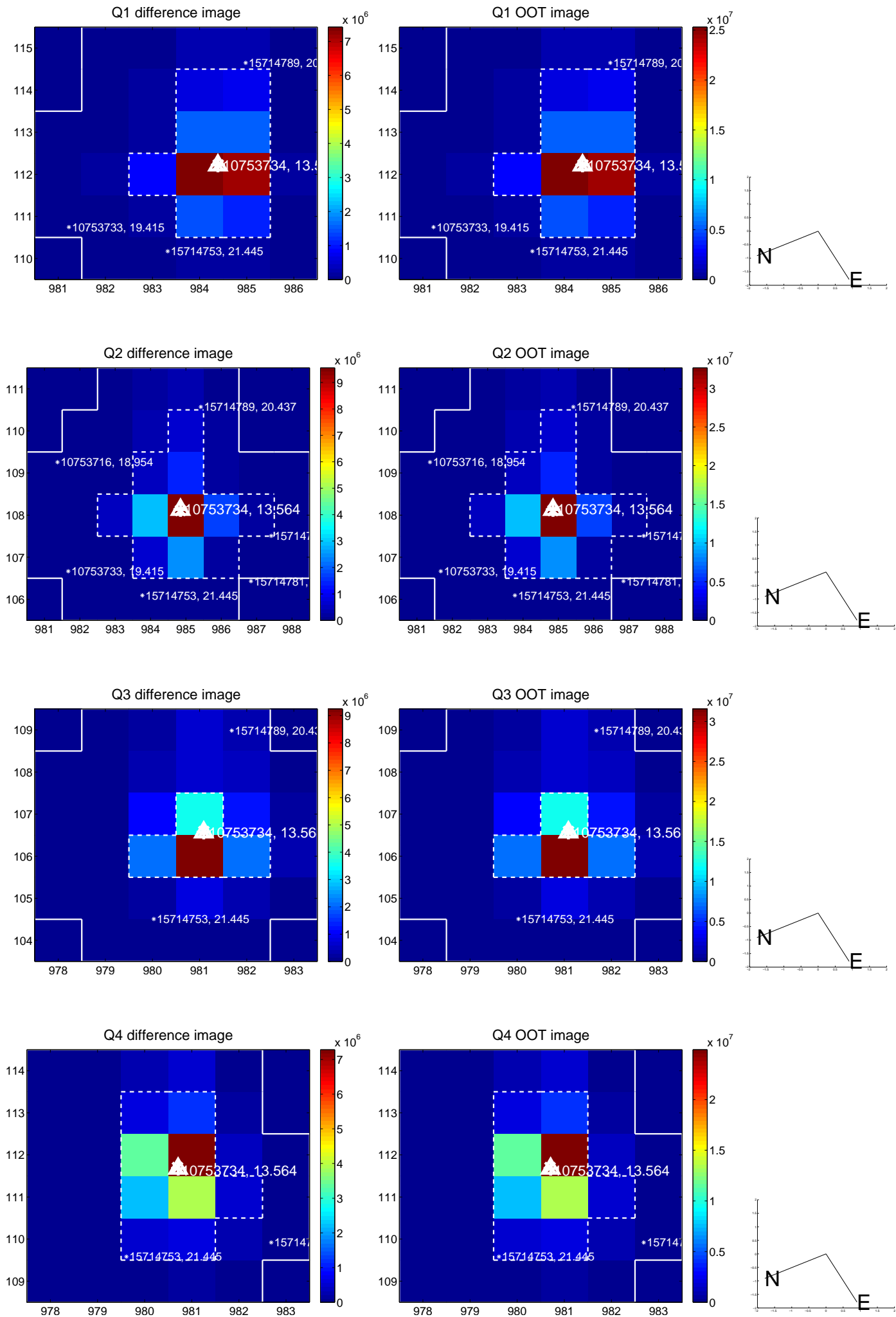
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.009 ± 0.067	0.13	0.007 ± 0.067	0.005 ± 0.067
PRF-fit source offset from KIC position	0.055 ± 0.069	0.80	0.055 ± 0.069	0.003 ± 0.069
photometric centroid source offset	0.13 ± 0.00	233.87	0.13 ± 0.00	-0.01 ± 0.00

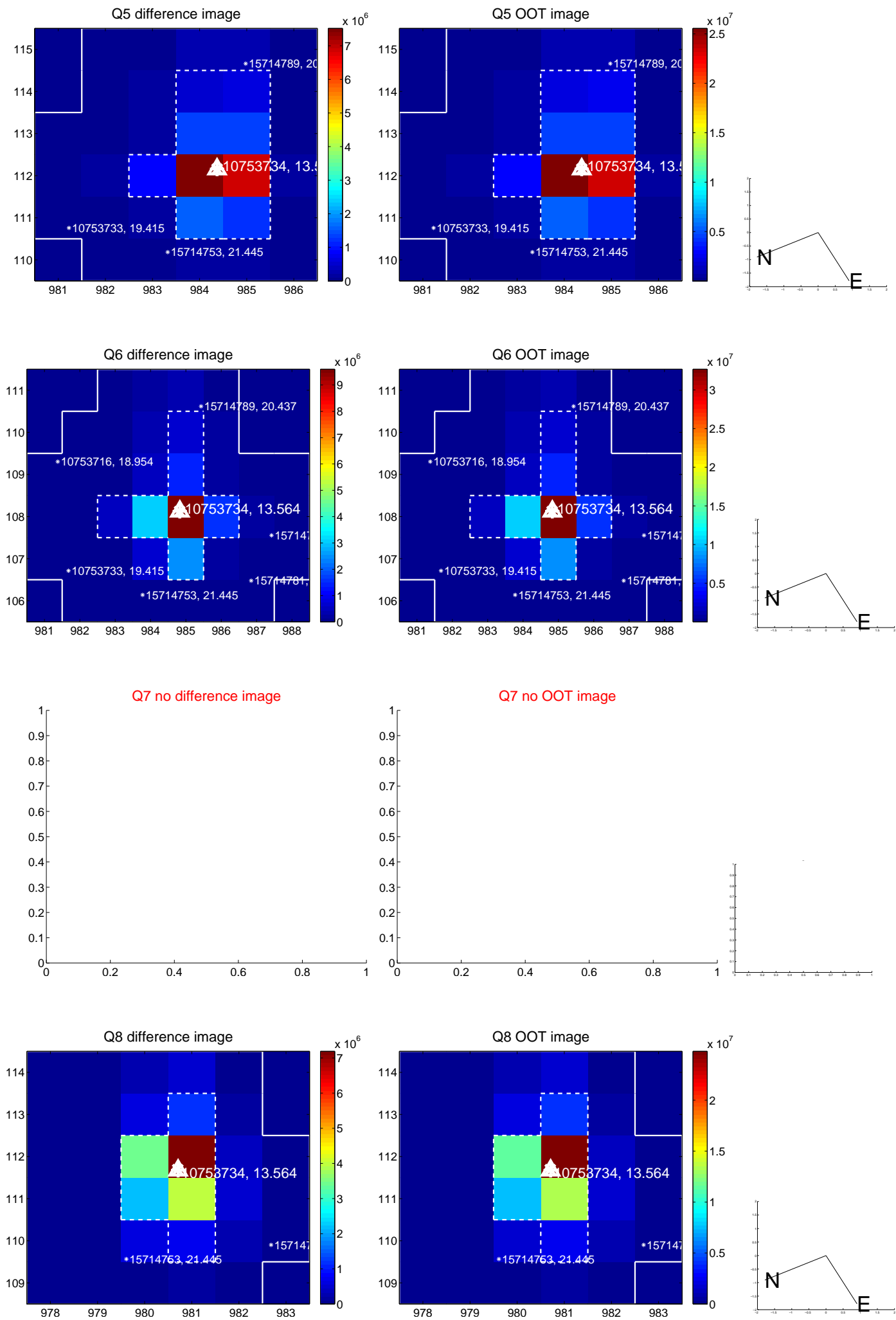


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

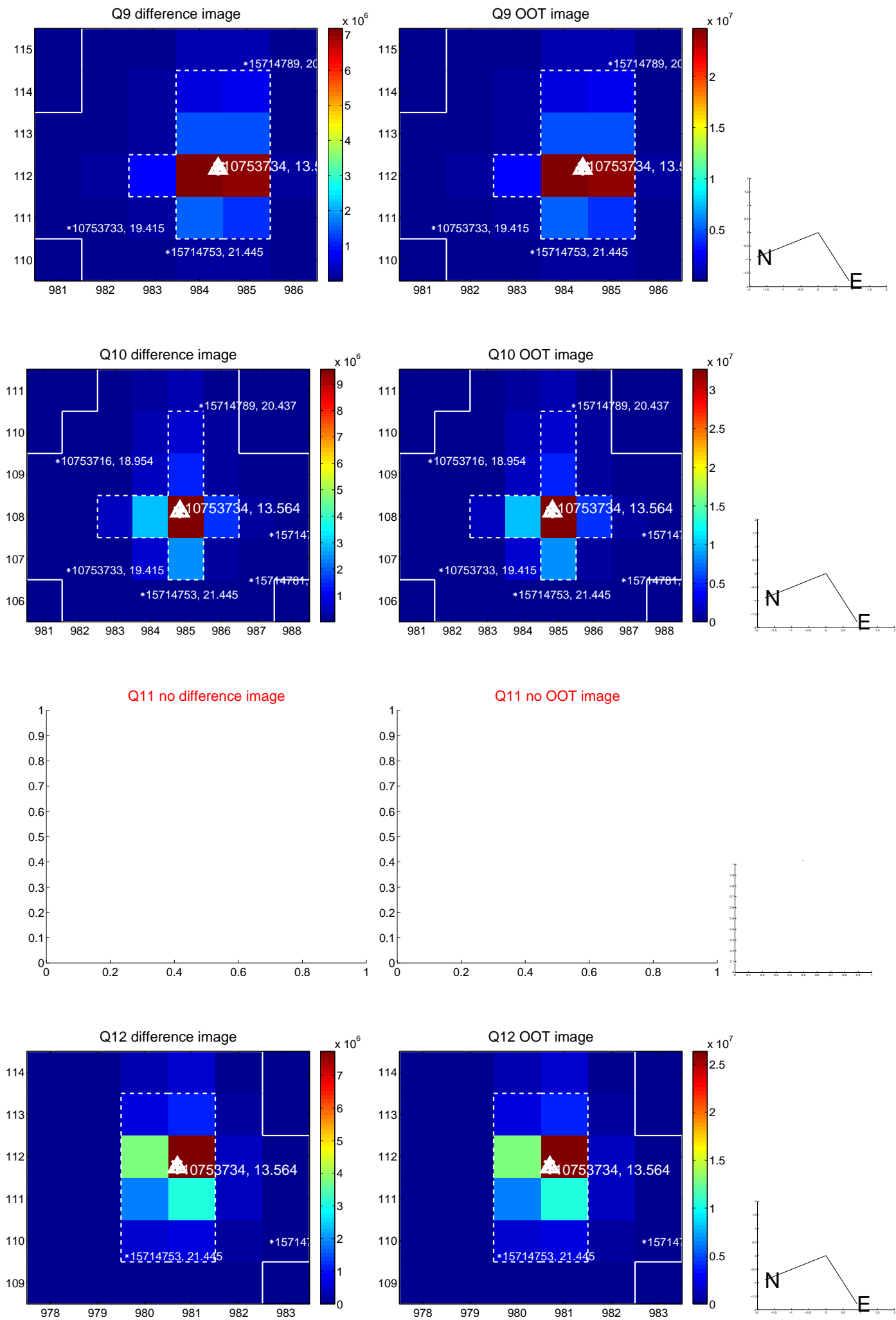
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



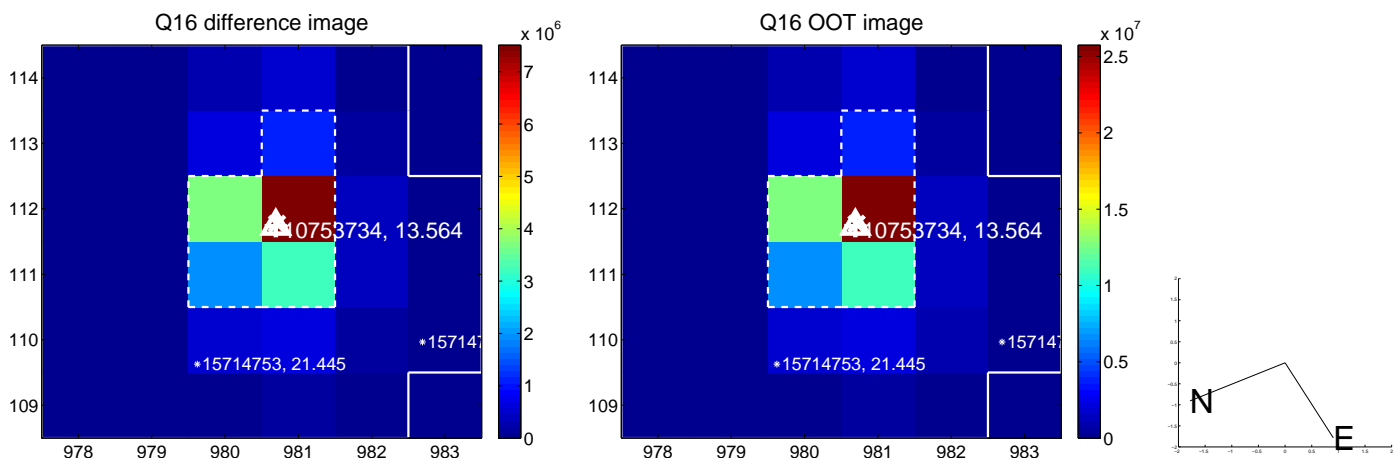
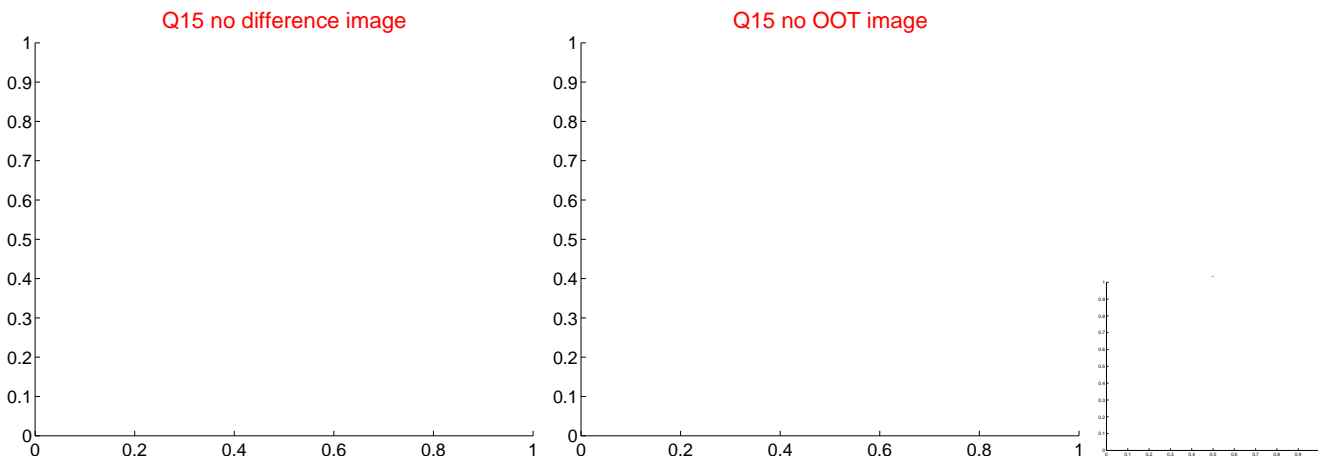
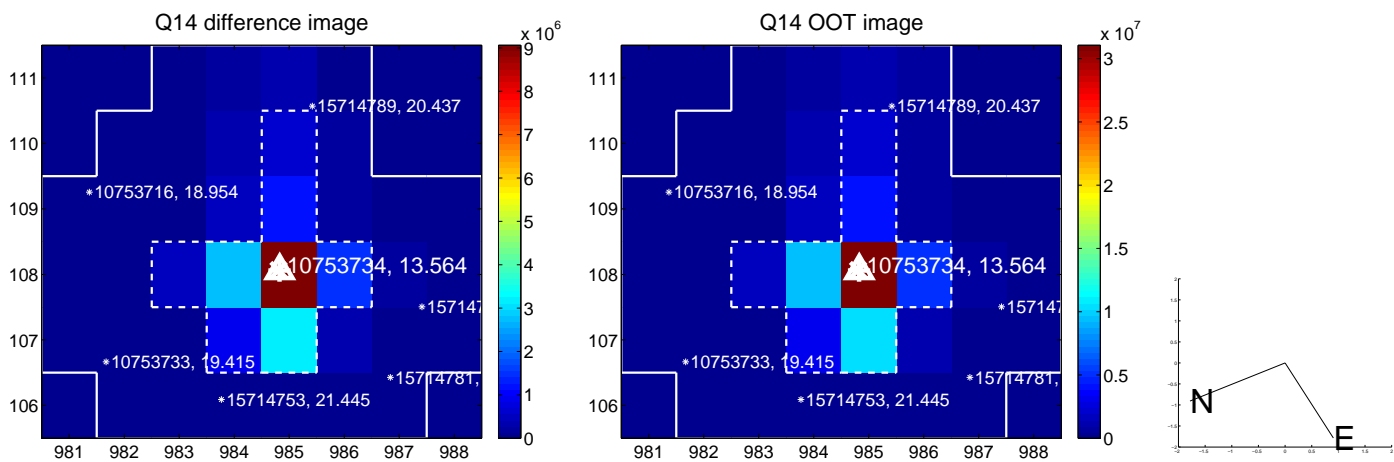
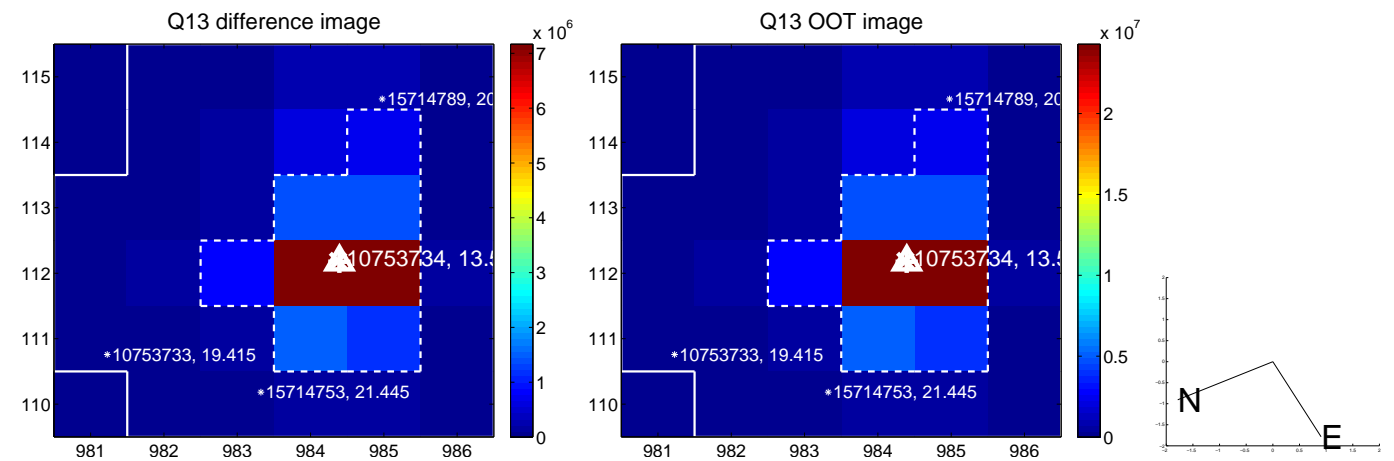
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



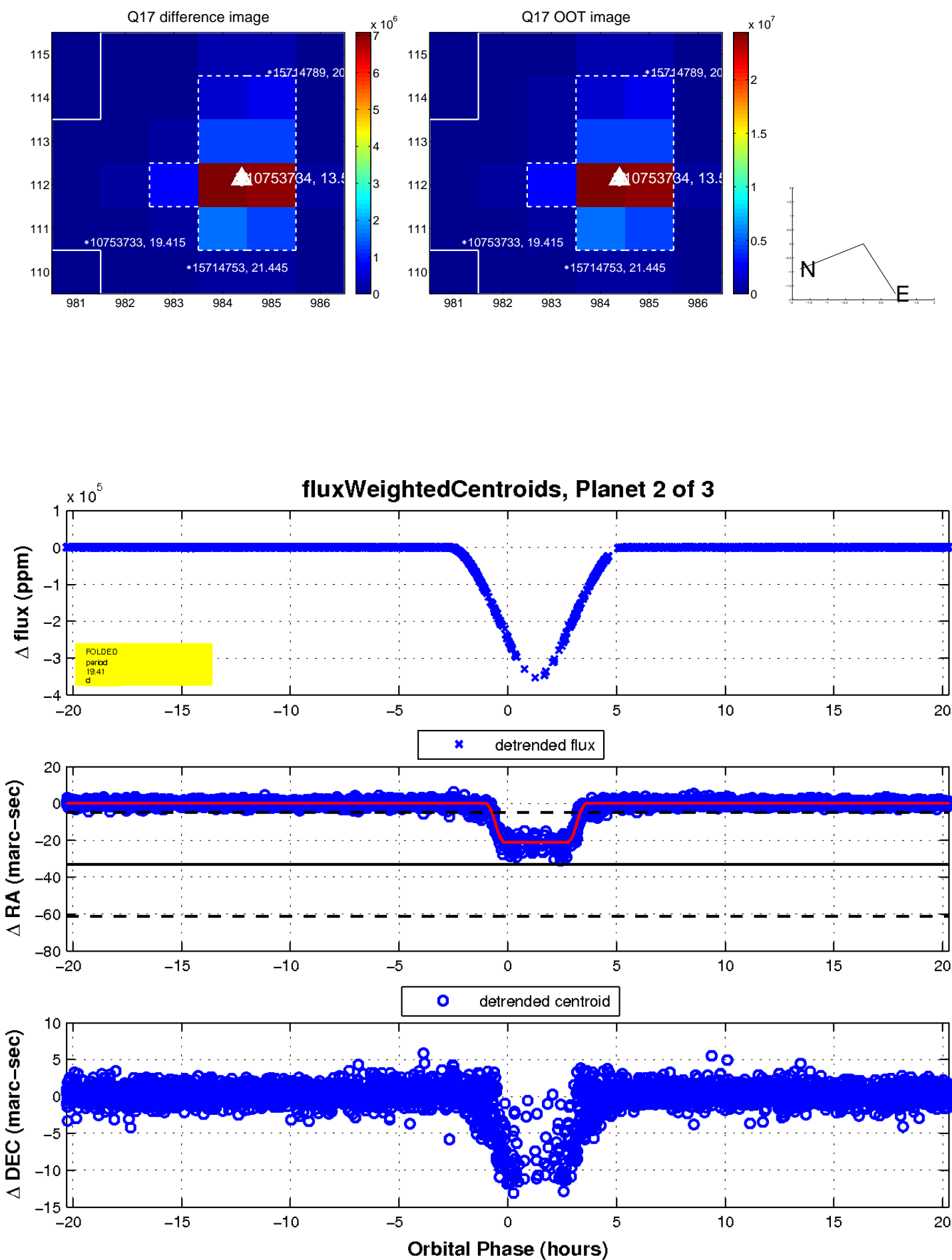
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

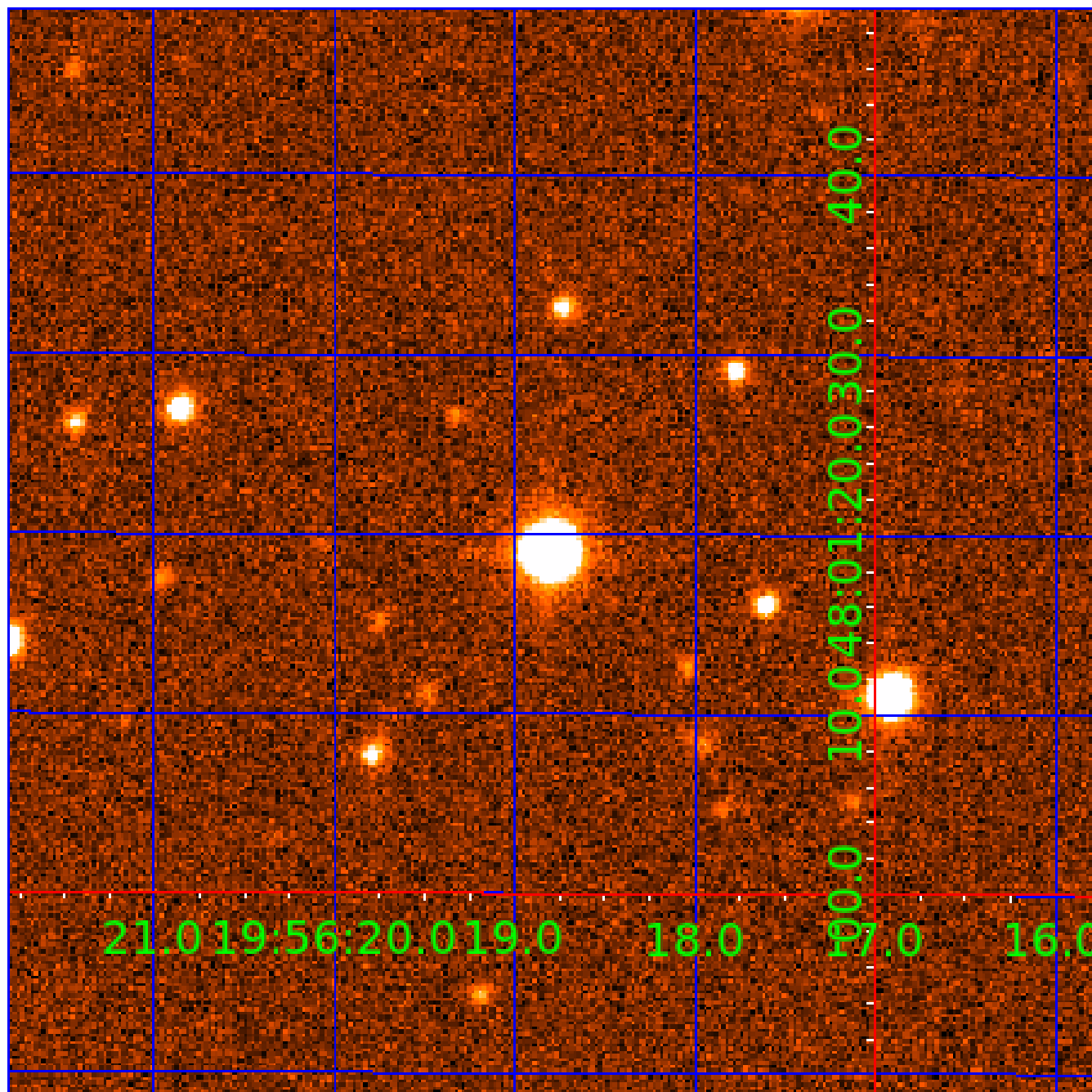


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010753734

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})
010753734-01	OBS	7371.01	19.406512	149.813281	473278.8	3.000	24390.4	-1.0	0.78	5622	42.45	30.10
010753734-02	OBS	No	19.406668	146.025633	356494.9	4.500	18268.1	-1.0	0.78	5622	37.92	30.10
010753734-03	OBS	No	9.702870	139.902376	34844.2	15.000	3216.1	-1.0	0.78	5622	14.41	75.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010753734-01	OBS	FP	0.00	0	1	0	0	MOD_SEC_ALT—MOD_ODDEVEN_ALT—HAS_SEC_TCE—CENT_NOFITS
010753734-02	OBS	FP	0.00	1	1	0	0	IS_SEC_TCE—CENT_NOFITS
010753734-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—RESIDUAL_TCE—CENT_NOFITS

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 010753734-03

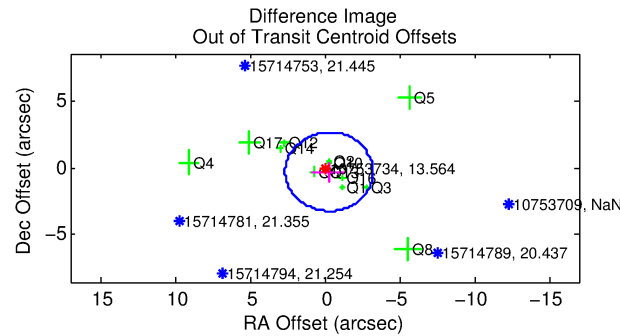
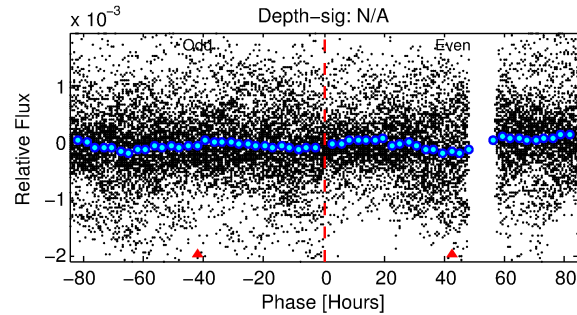
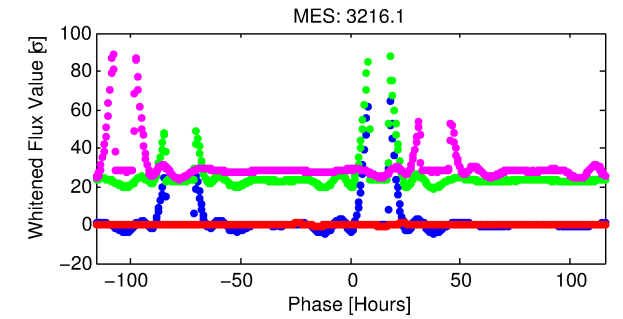
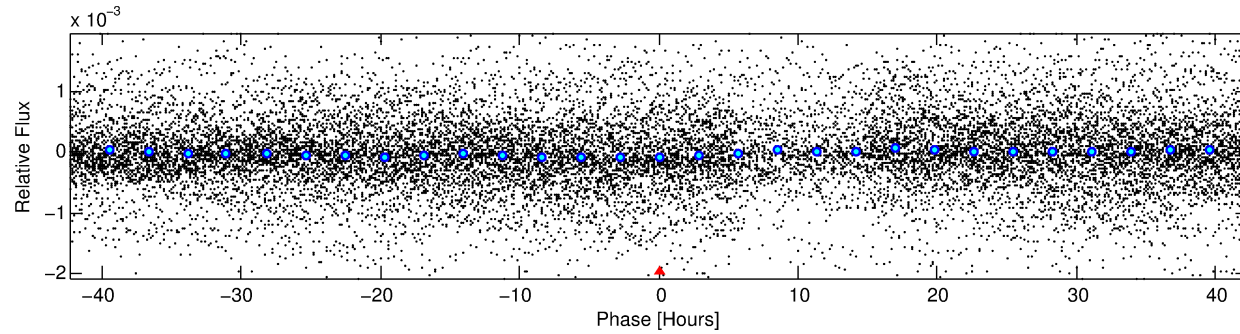
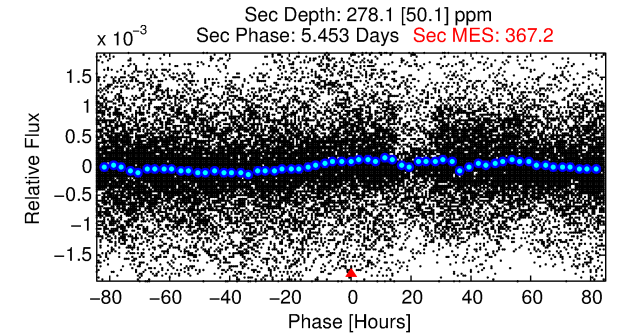
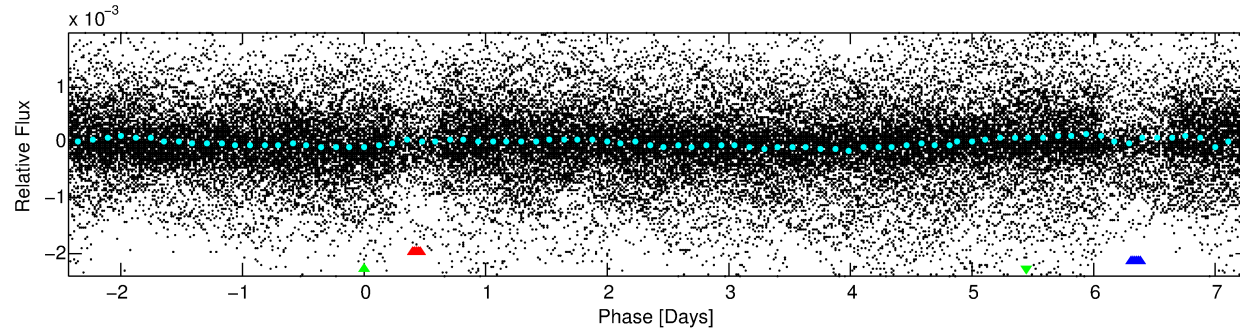
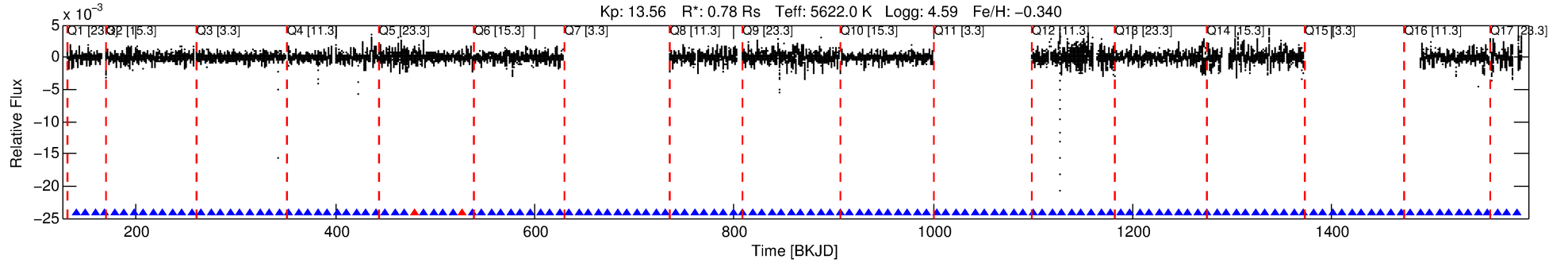
No Significant Match Found

DV One-Page Summary

KIC: 10753734 Candidate: 3 of 3 Period: 9.703 d

KOI: K07371 Corr: No Ephemeris Match

Kp: 13.56 R*: 0.78 Rs Teff: 5622.0 K Logg: 4.59 Fe/H: -0.340



TPS TCE Results:

Period = 9.70287 d
Epoch = 139.9024 BKJD

DV fit results are unavailable

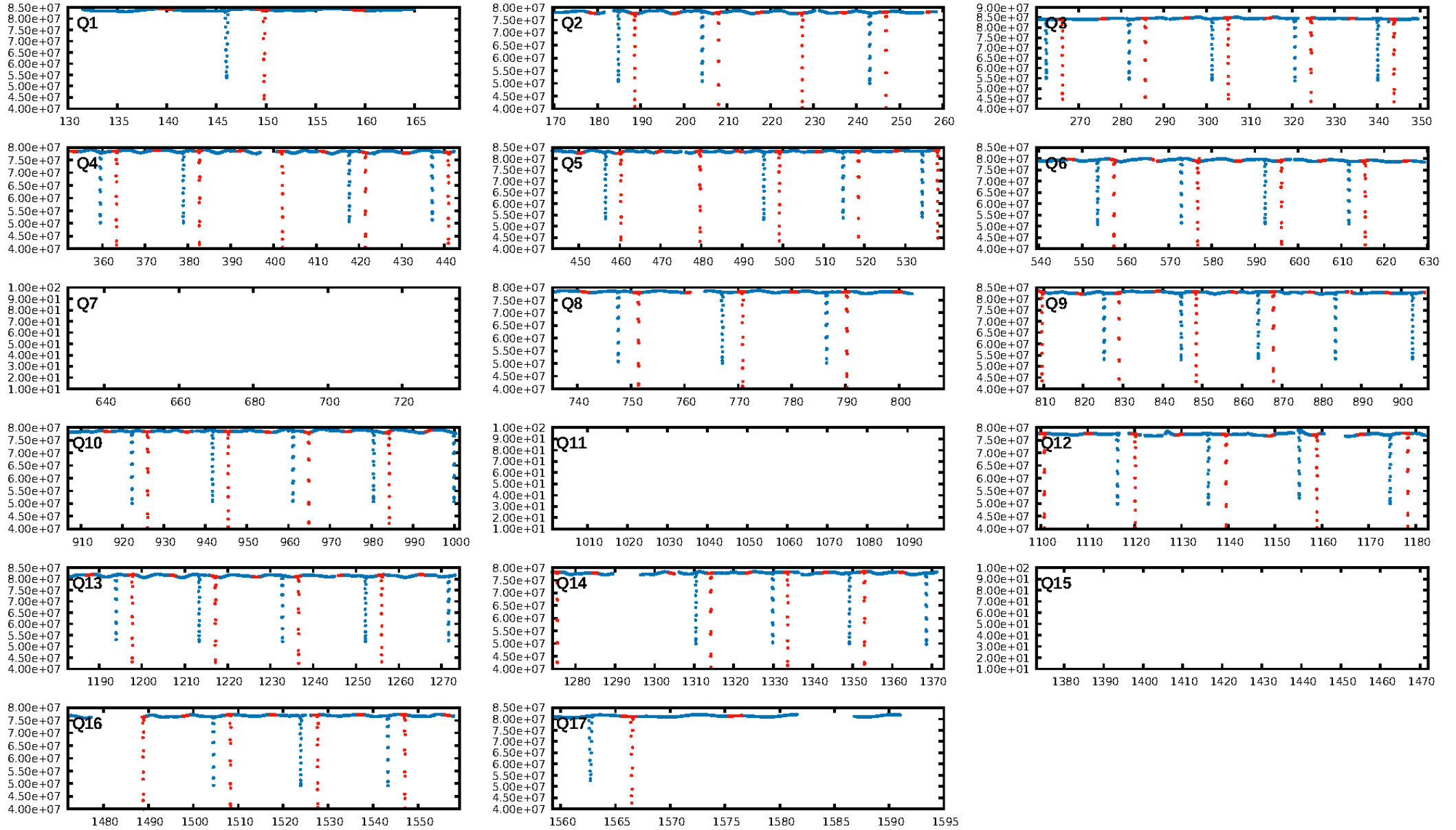
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [15.22 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.98 [105/107]
GhostDiagnostic-chr: 0.2523
Centroid-sig: N/A
Centroid-so: 1.127 arcsec [1.49 σ]
OotOffset-rm: 0.417 arcsec [0.43 σ]
KicOffset-rm: 0.416 arcsec [0.41 σ]
OotOffset-st: 4/1/4/4 [13]
KicOffset-st: 4/1/4/4 [13]
DiffImageQuality-fgm: 0.31 [4/13]
DiffImageOverlap-fno: 1.00 [14/14]

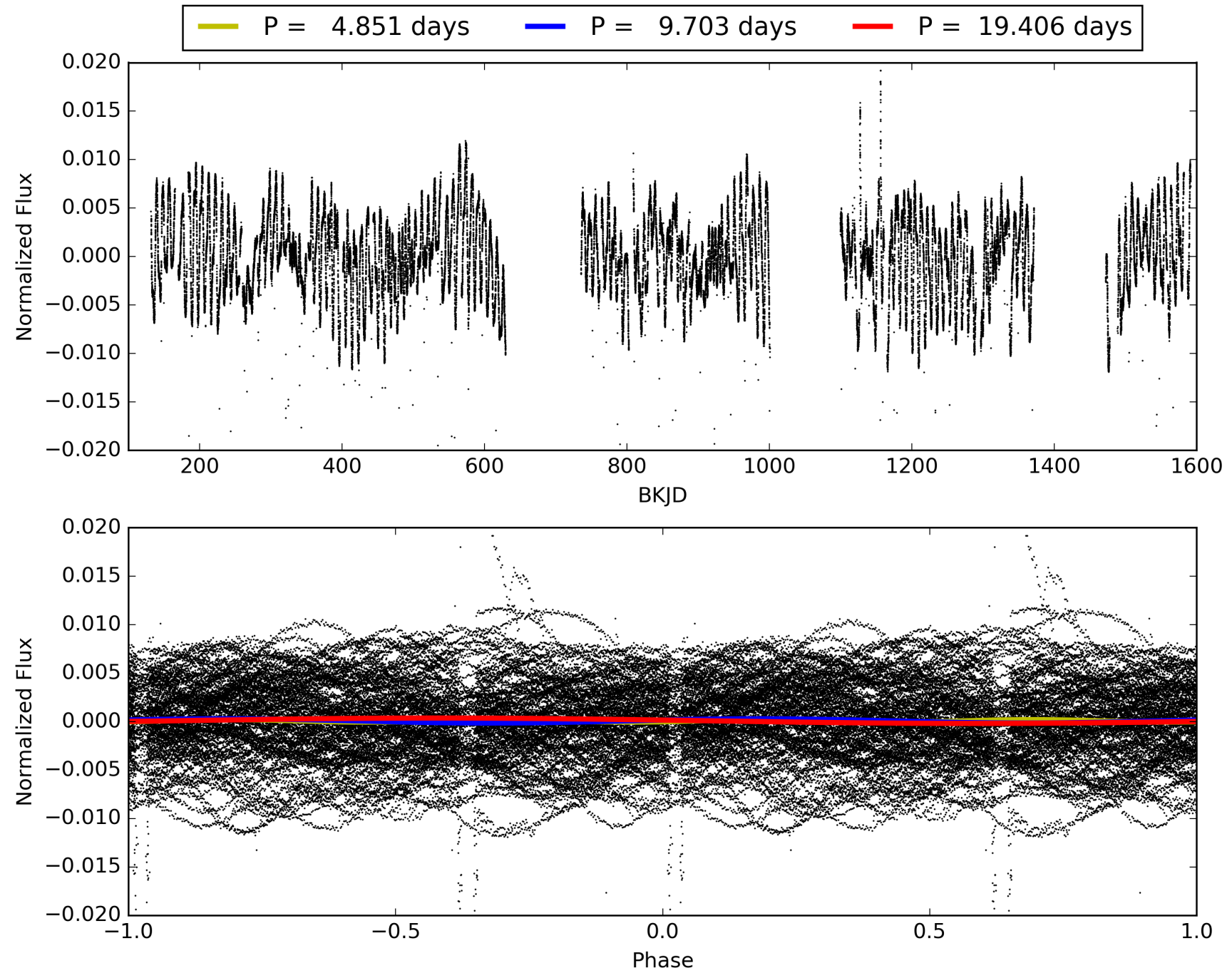
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:09:53 Z

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

TCE 010753734-03, PDC Light Curves

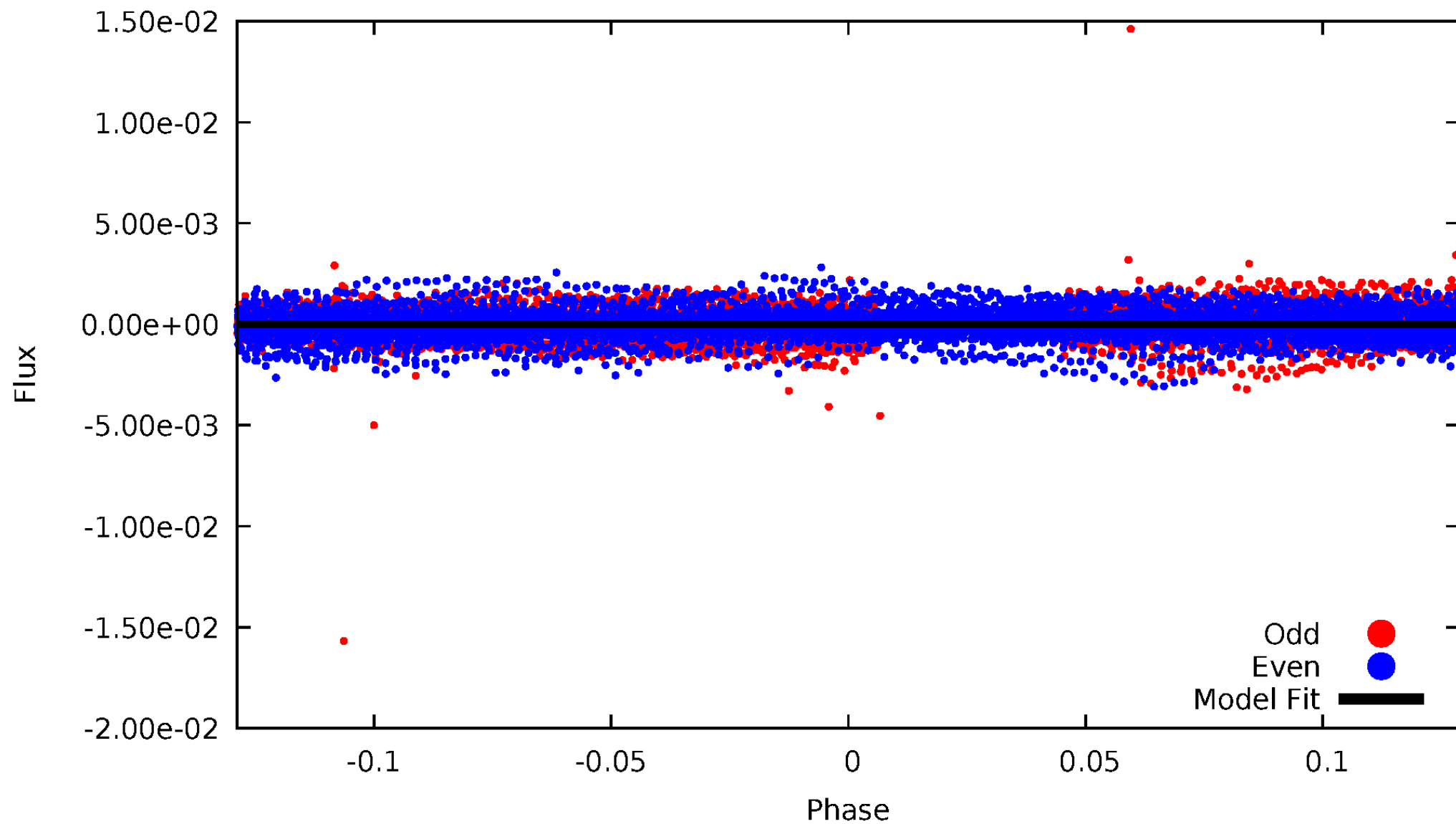


TCE 010753734-03



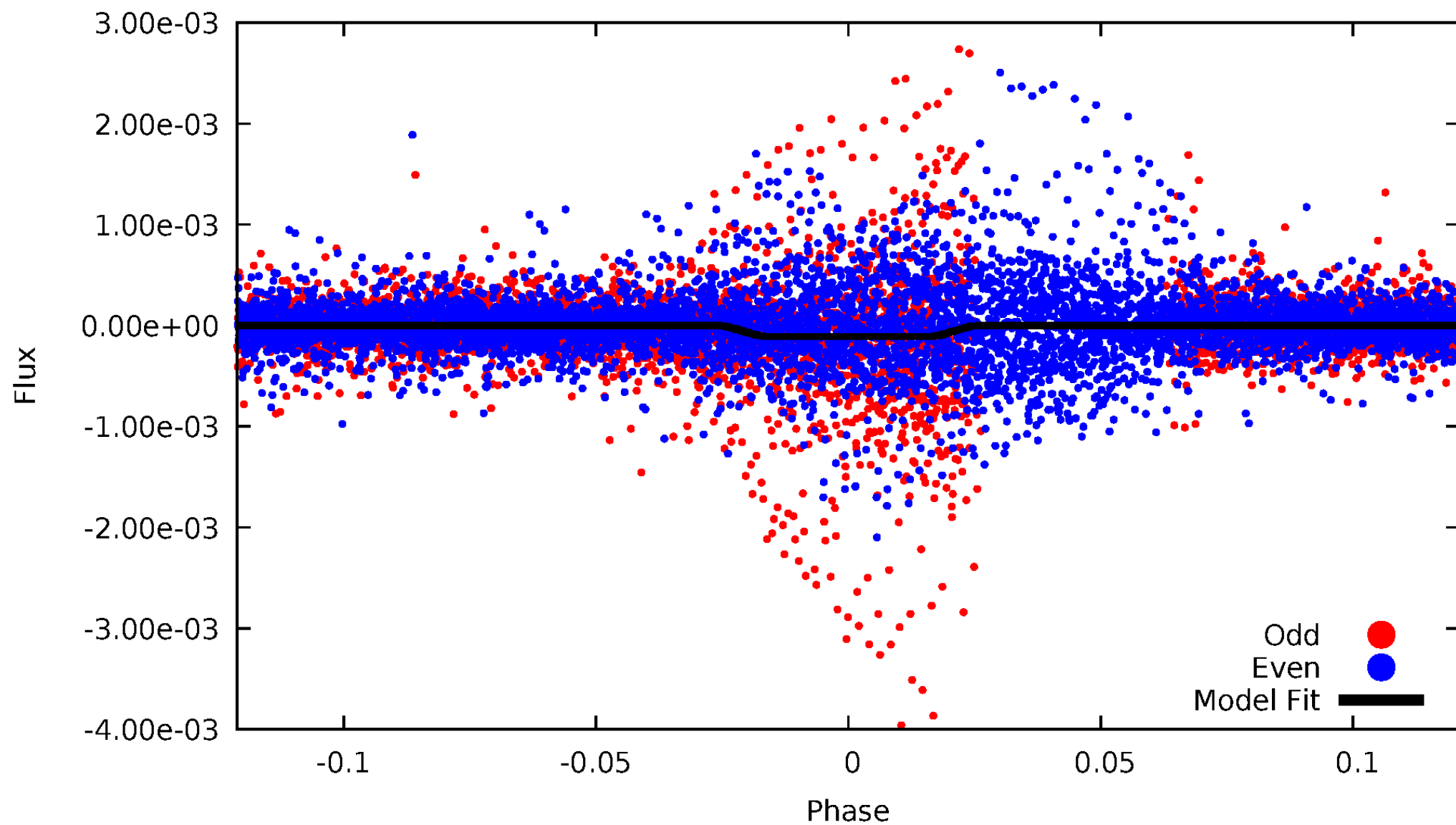
DV Odd/Even

TCE 010753734-03

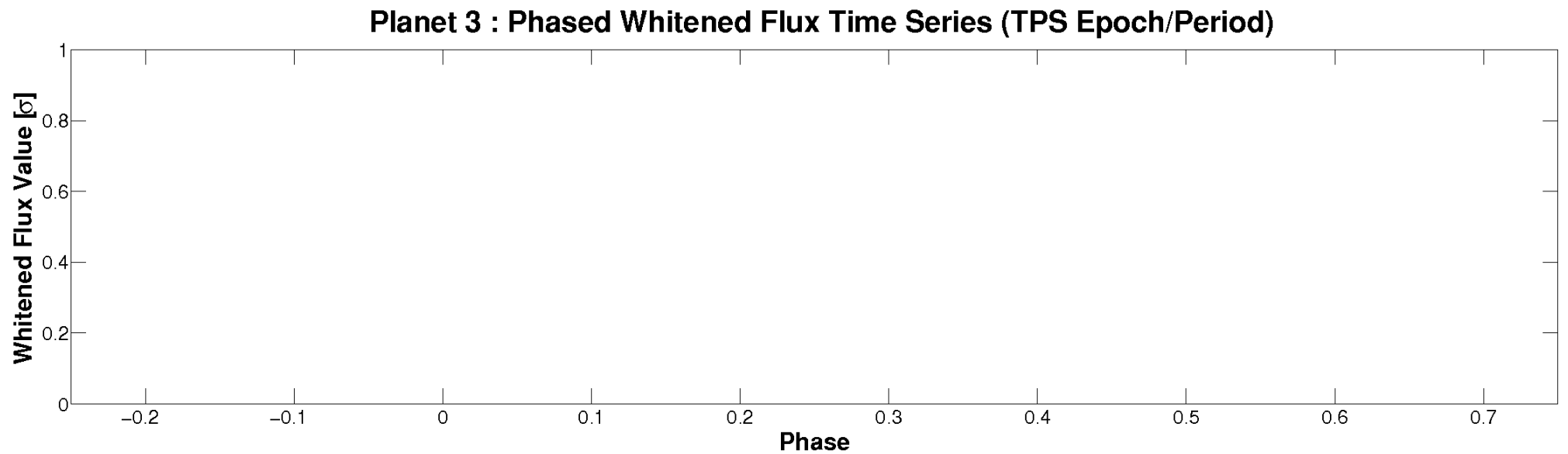
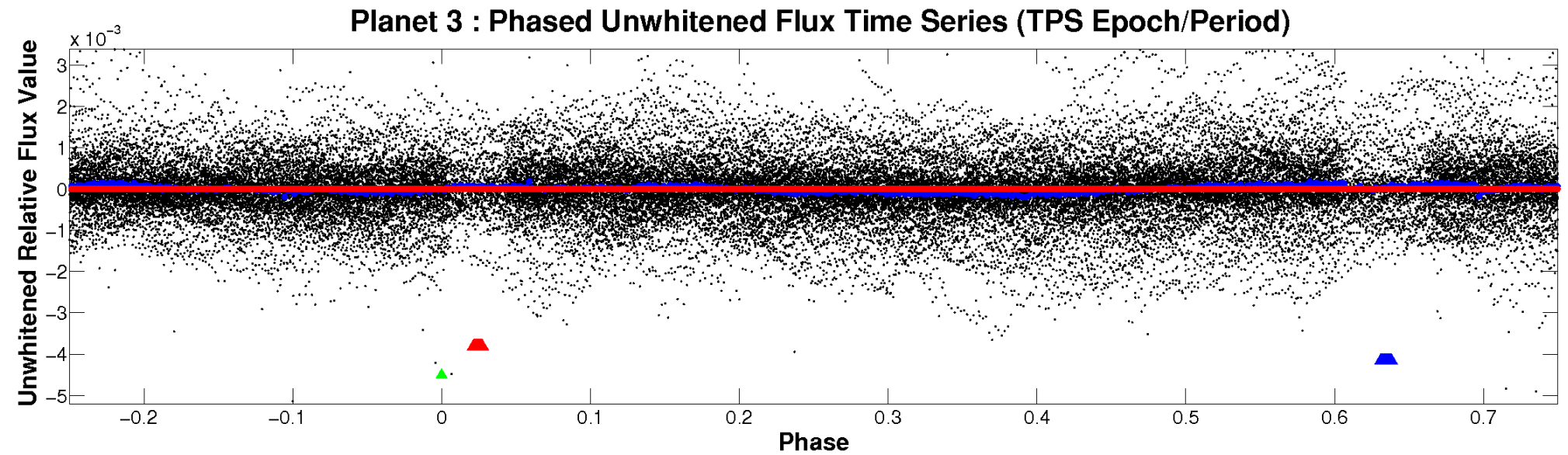


ALT Odd/Even

TCE 010753734-03

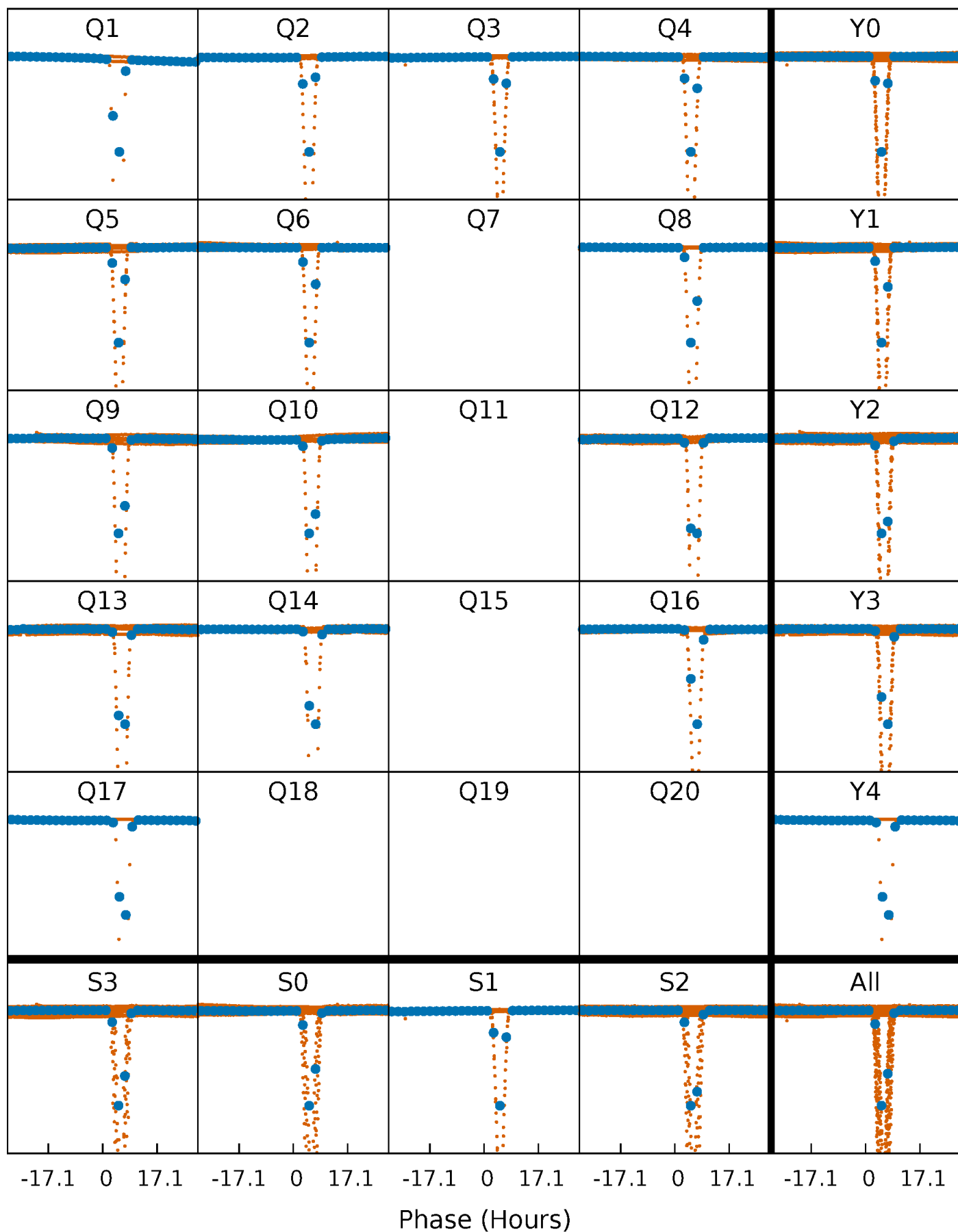


Non-Whitened Vs. Whitened Light Curve



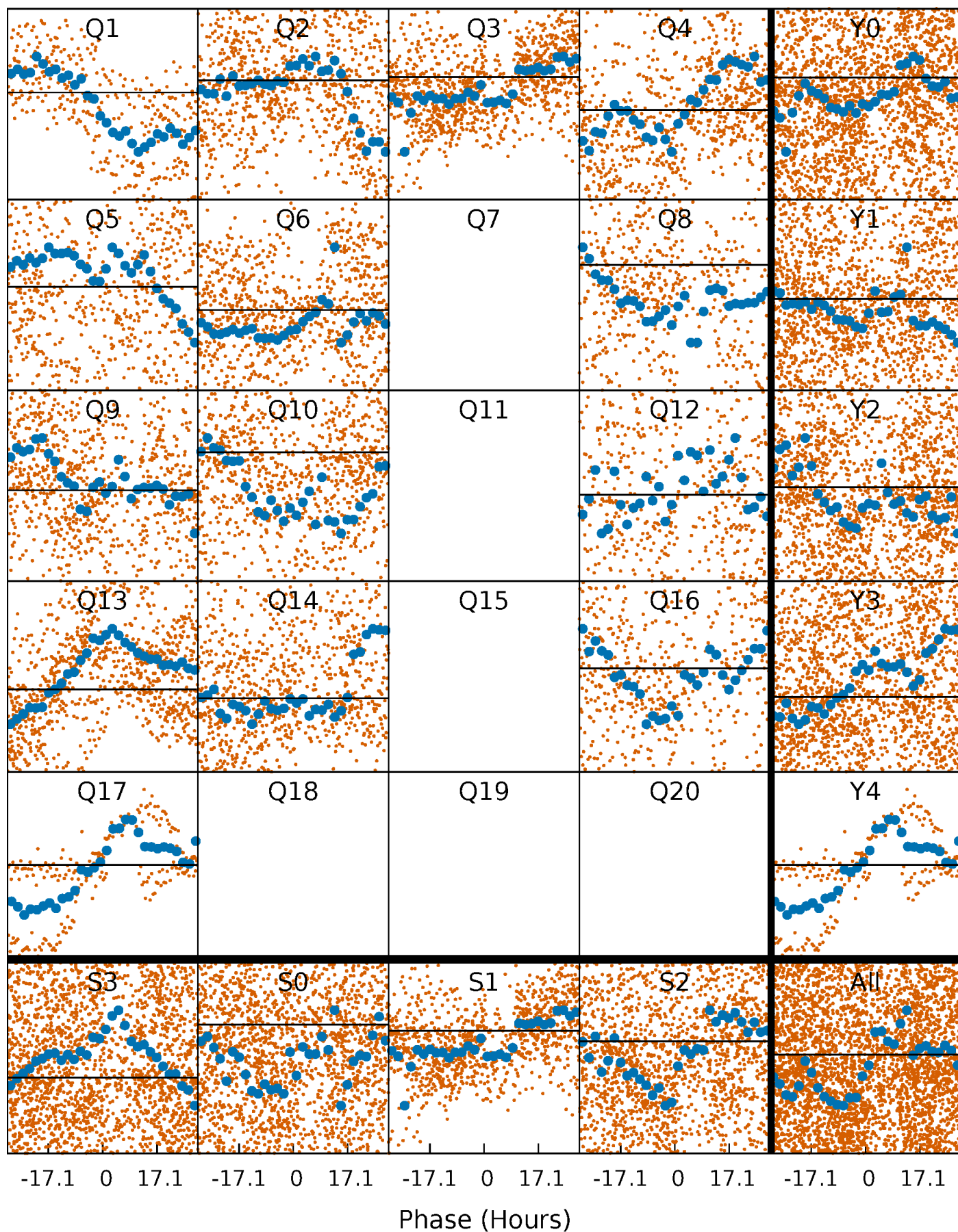
PDC Quarter-Phased Transit Curves

TCE 010753734-03 P= 9.702870 Days $T_0=139.902376$ (BKJD)



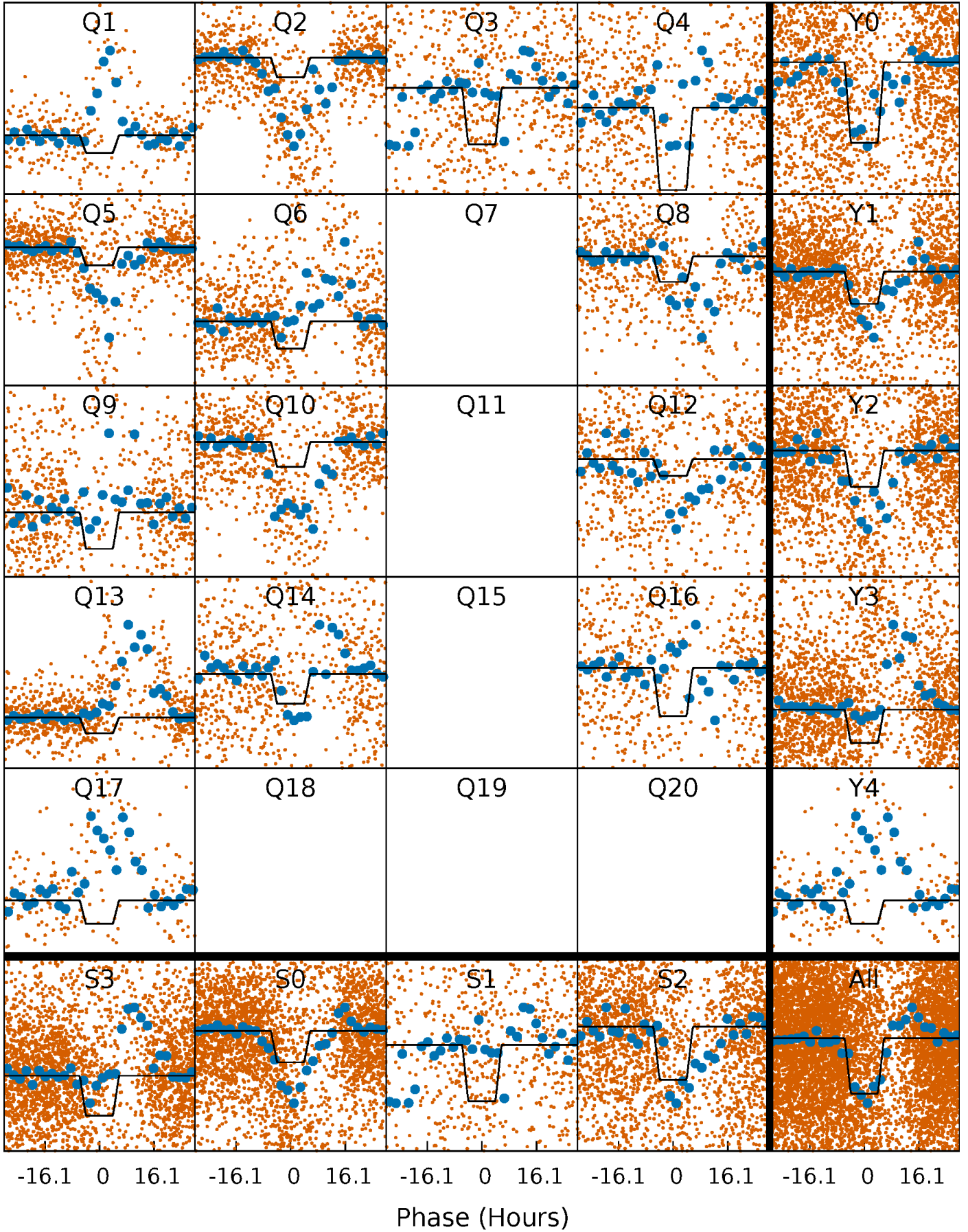
DV Quarter-Phased Transit Curves

TCE 010753734-03 P= 9.702870 Days $T_0=139.902376$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

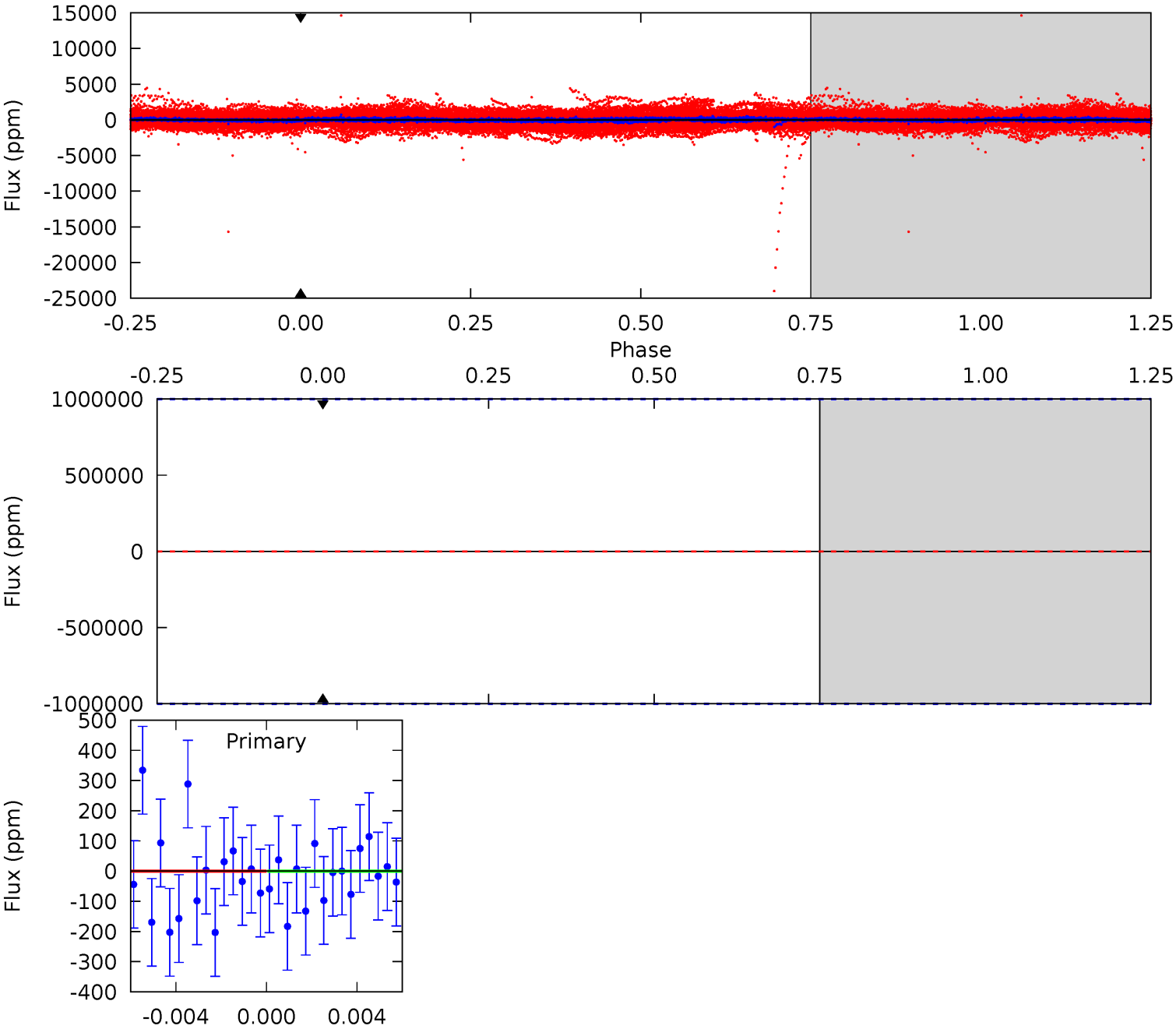
TCE 010753734-03 P= 9.702870 Days $T_0=139.704054$ (BKJD)



DV Model-Shift Uniqueness Test

010753734-03, P = 9.702870 Days, E = 130.199506 Days

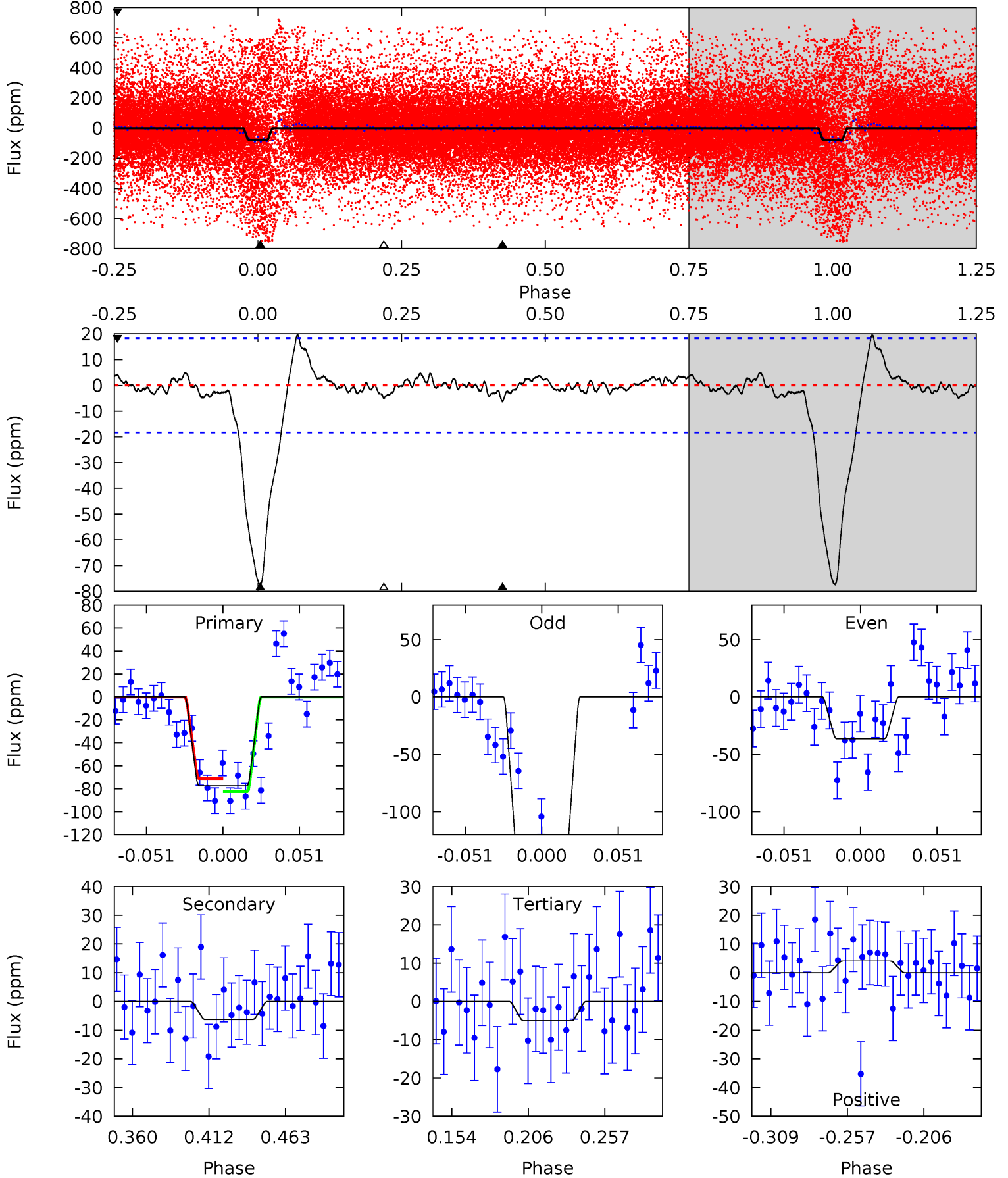
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010753734-03, P = 9.702870 Days, E = 130.001184 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.8	1.60	1.30	1.04	4.70	1.95	0.92	18.5	18.8	0.31	0.56	12.9	2.05	0.20	0



Stellar Parameters For KIC 010753734

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5622^{+152}_{-152}	$4.588^{+0.038}_{-0.152}$	$-0.340^{+0.300}_{-0.300}$	$0.778^{+0.182}_{-0.061}$	$0.862^{+0.088}_{-0.097}$	$2.580^{+0.496}_{-1.053}$
	+3%/-3%	+1%/-3%	+88%/-88%	+23%/-8%	+10%/-11%	+19%/-41%
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 010753734-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$15.74^{+8.80}_{-8.52}$	1069^{+60}_{-42}	3544^{+5094}_{-11329}	49^{+2468}_{-1769}
Alt.	-6 ± 4	$6.54^{+6.47}_{-4.47}$	1069^{+53}_{-45}	1798^{+772}_{-3640}	$0.464^{+4.409}_{-0.386}$

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

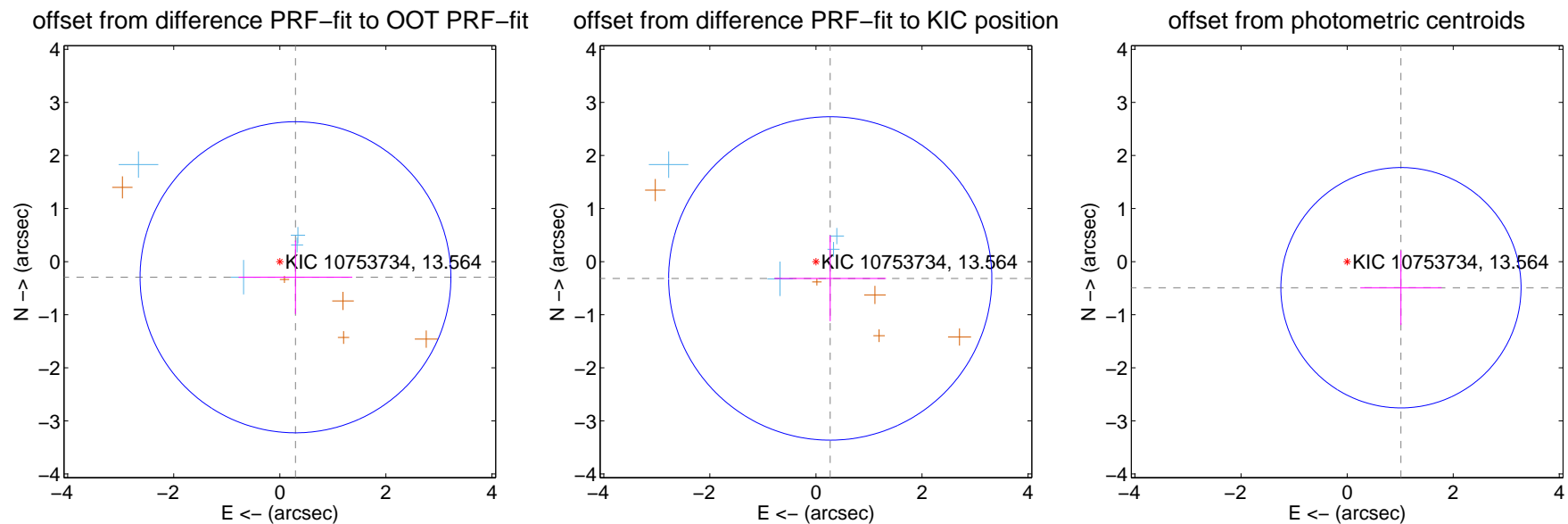
DV Centroid Data

Supplemental centroid analysis for 010753734-03. Kepler magnitude: 13.56. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

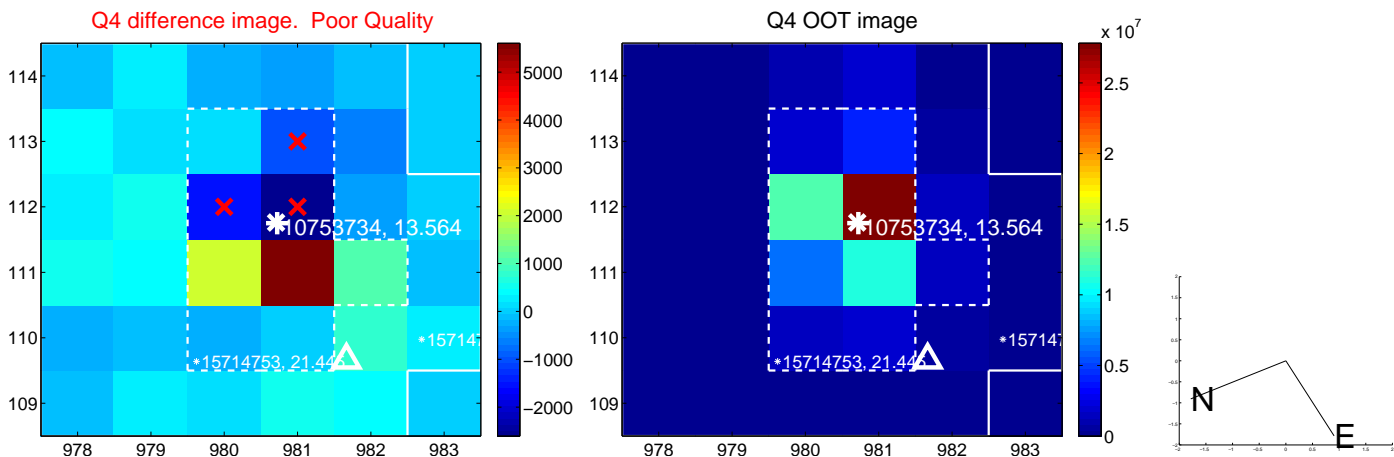
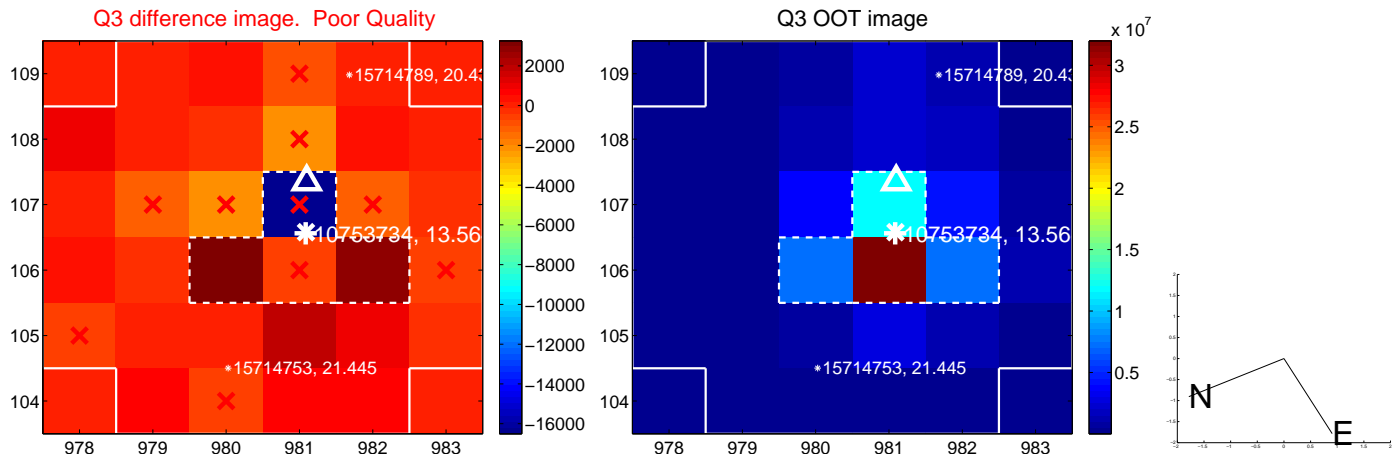
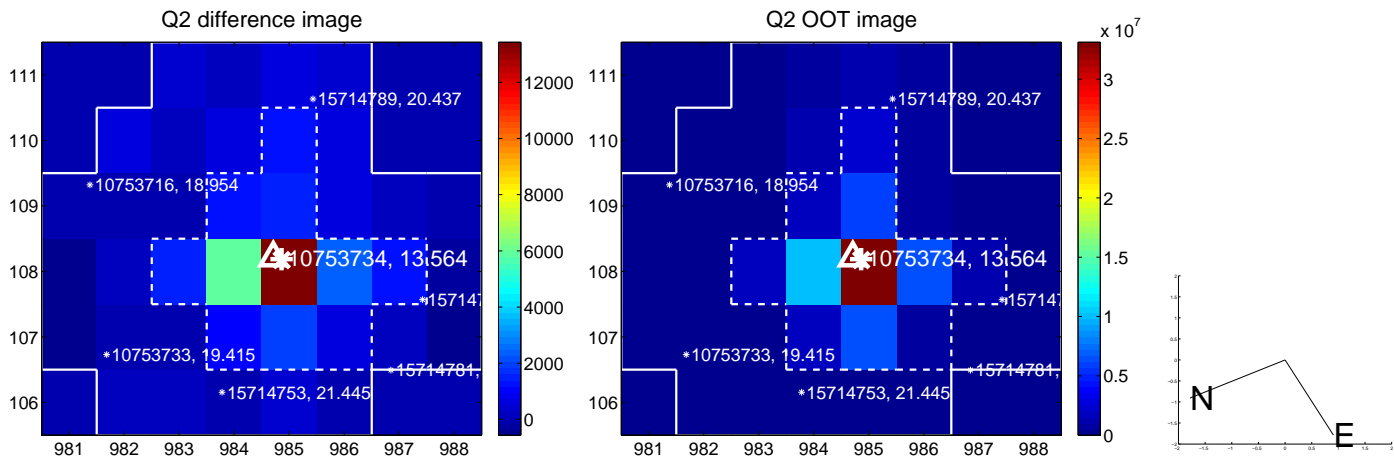
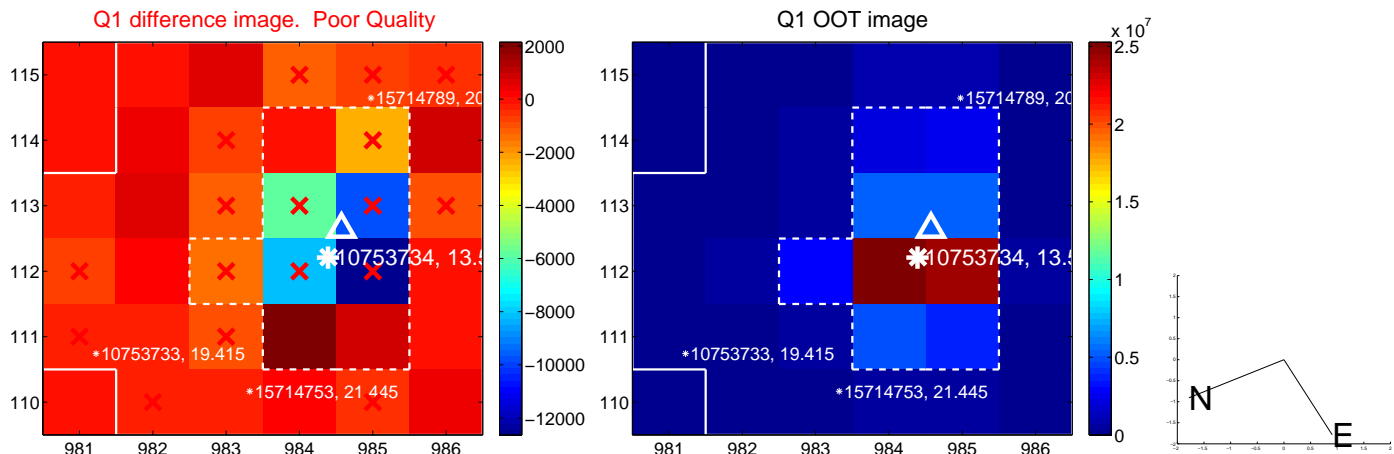
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.417 ± 0.977	0.43	-0.296 ± 1.070	-0.294 ± 0.692
PRF-fit source offset from KIC position	0.416 ± 1.016	0.41	-0.270 ± 1.051	-0.316 ± 0.806
photometric centroid source offset	1.13 ± 0.75	1.49	-1.01 ± 0.77	-0.49 ± 0.70

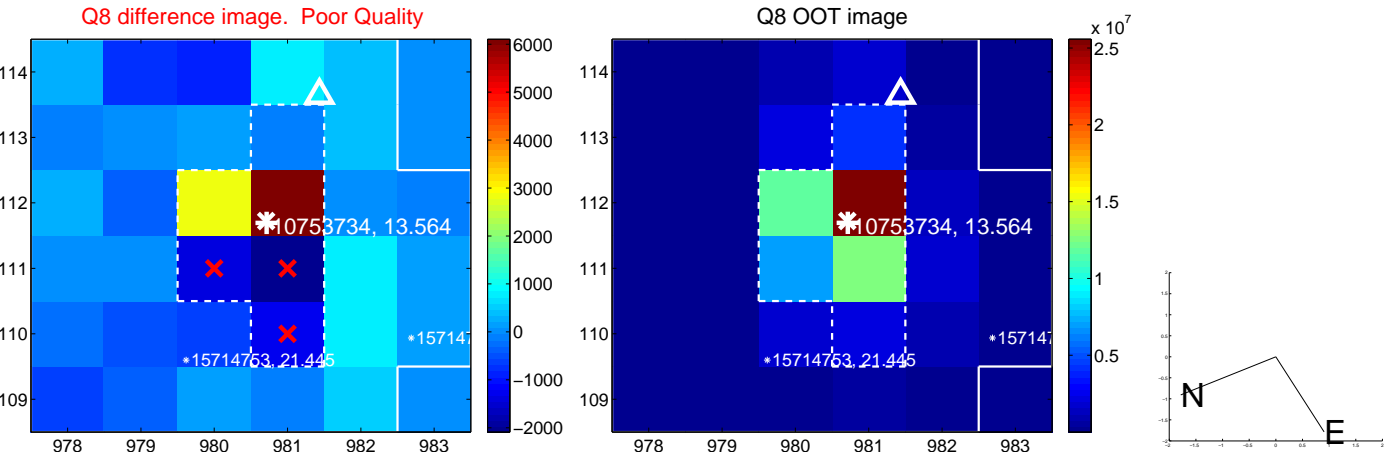
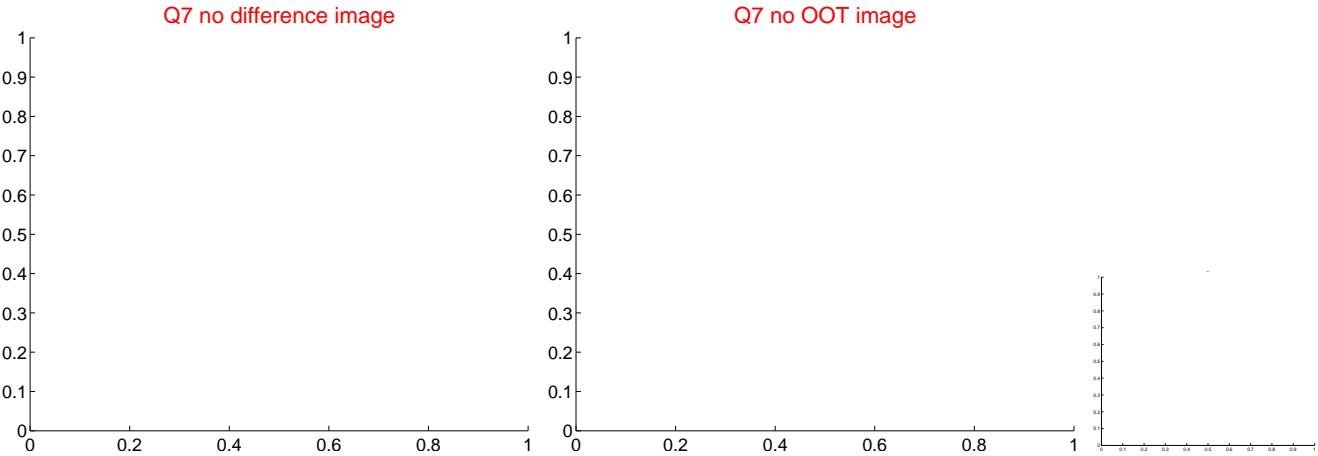
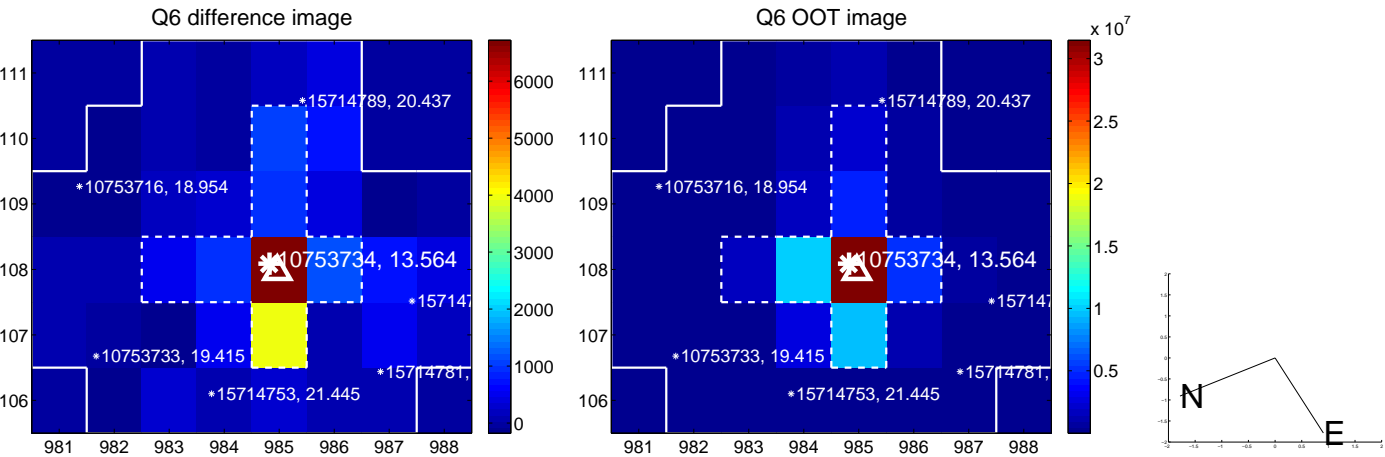
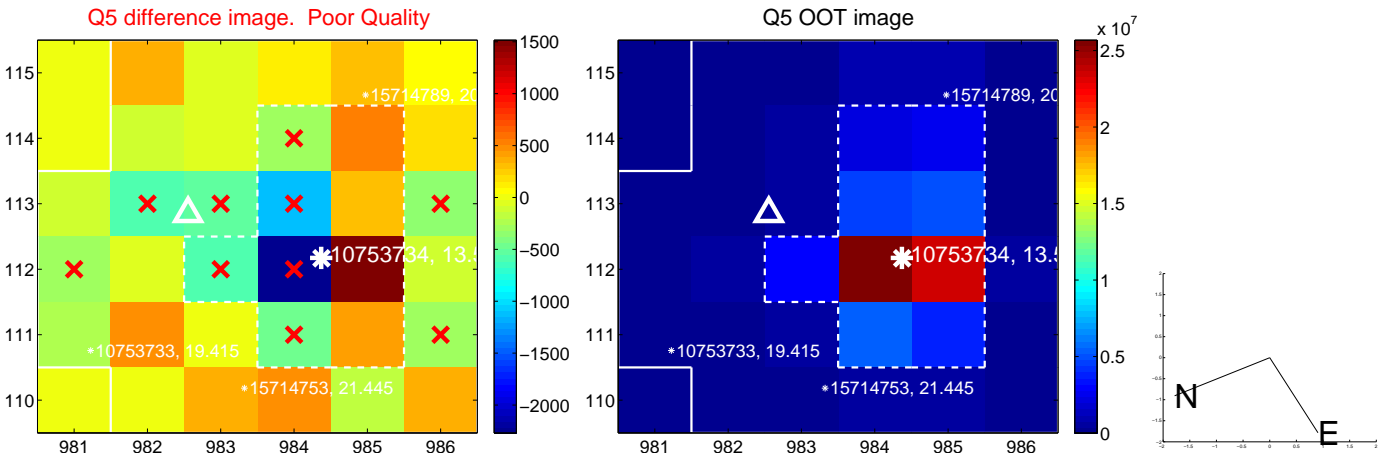


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

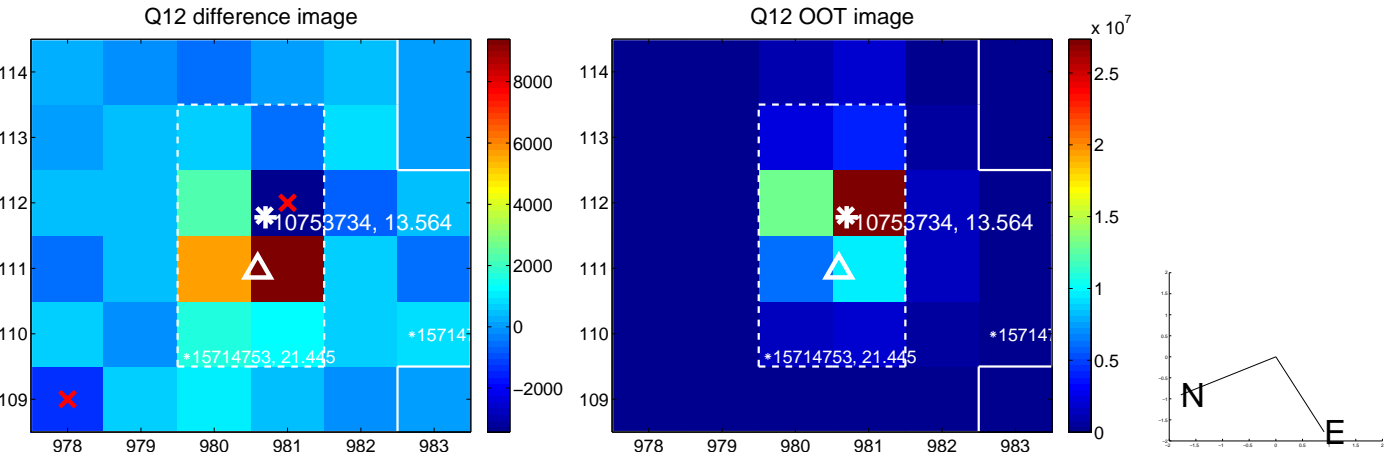
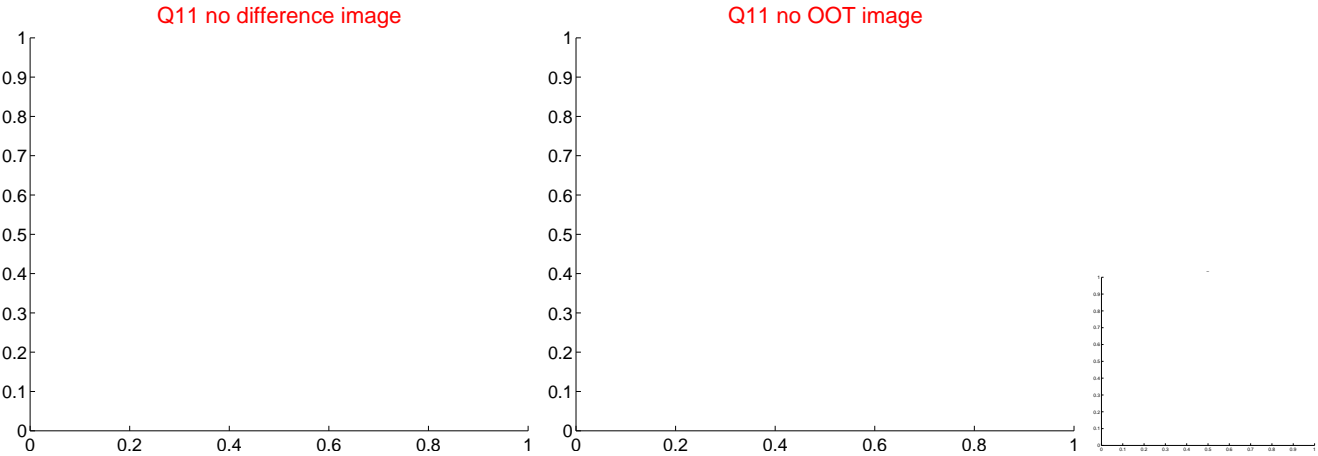
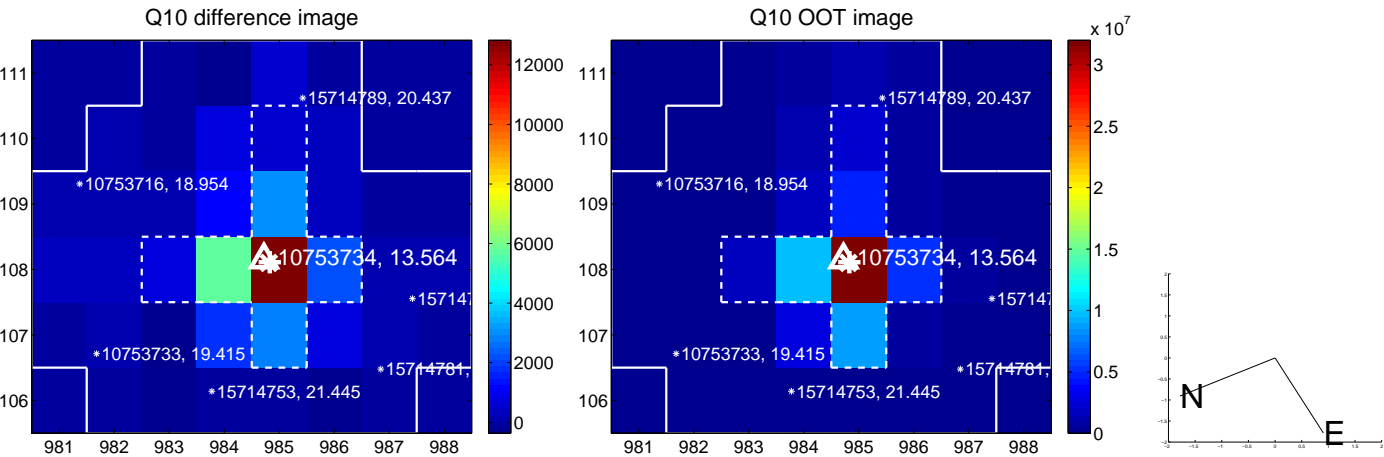
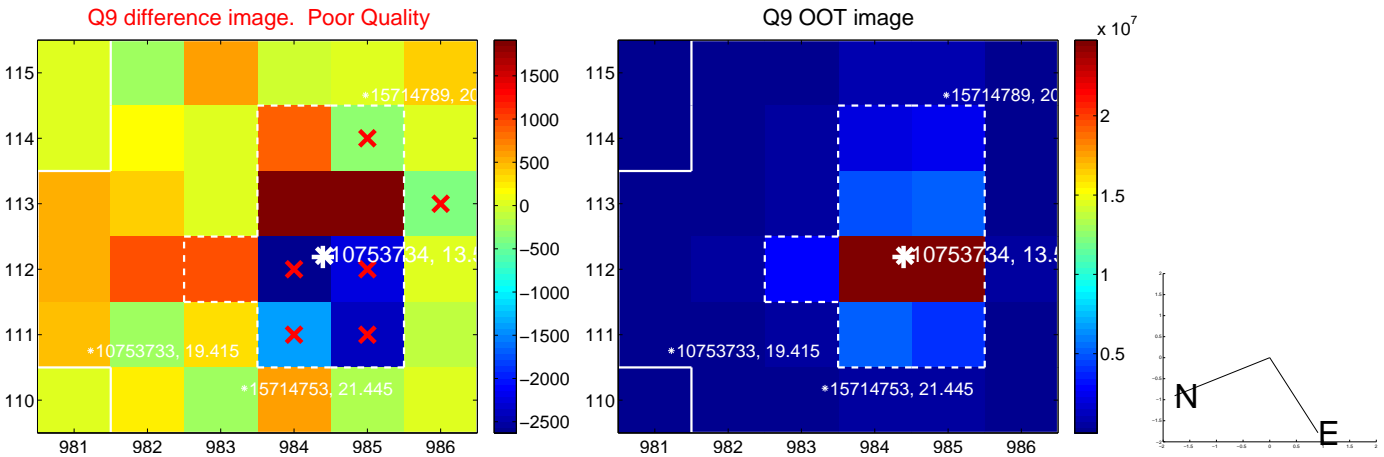
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



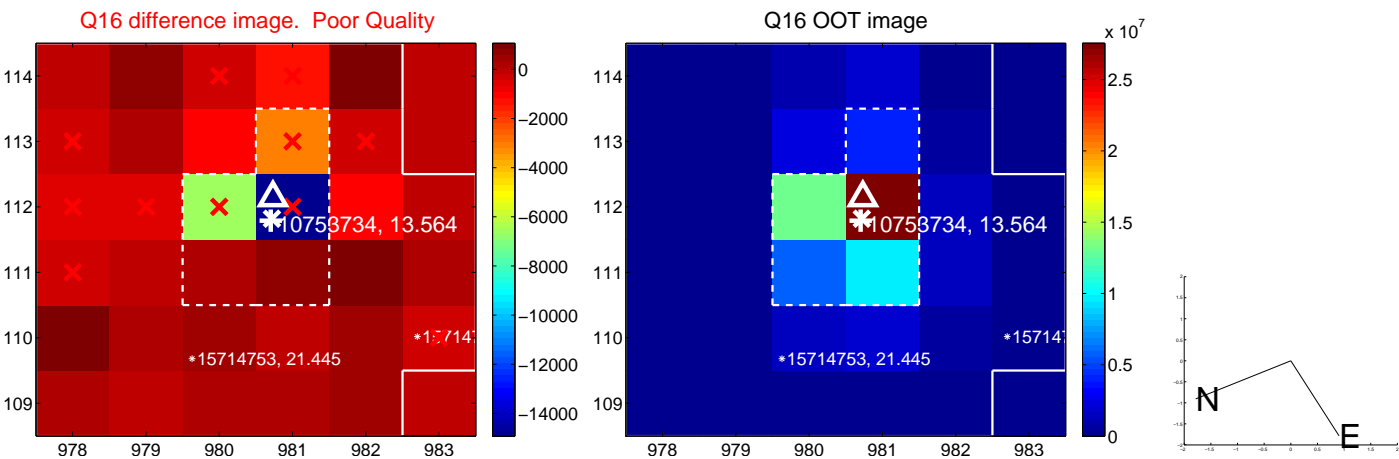
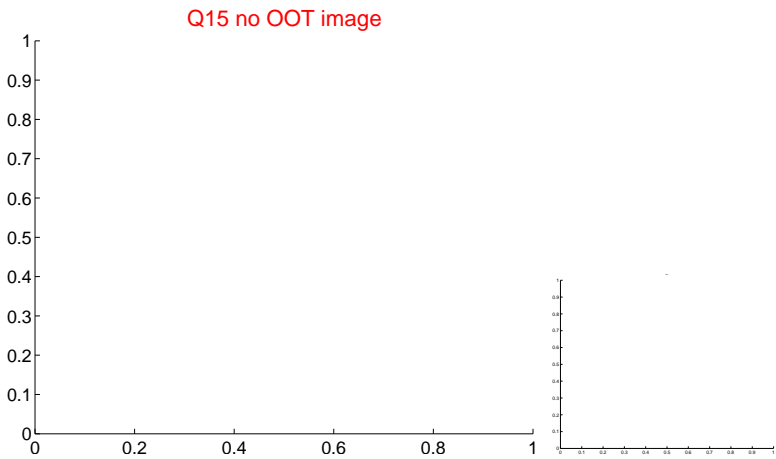
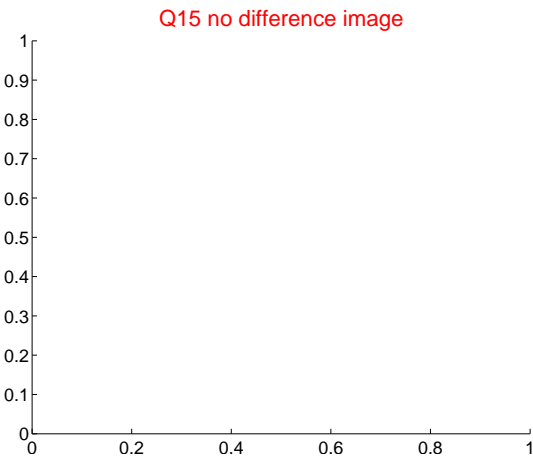
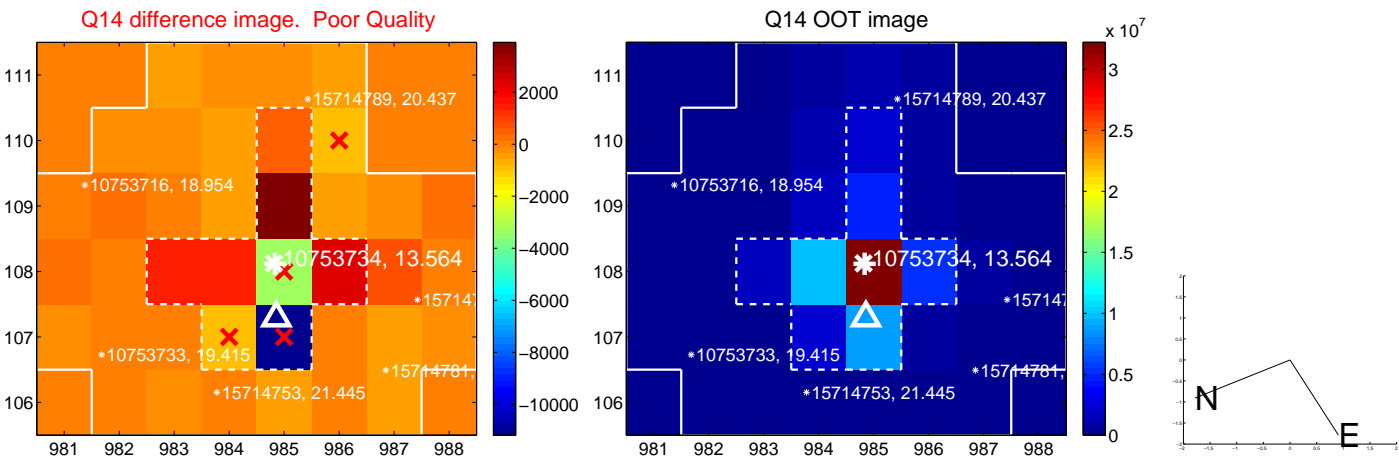
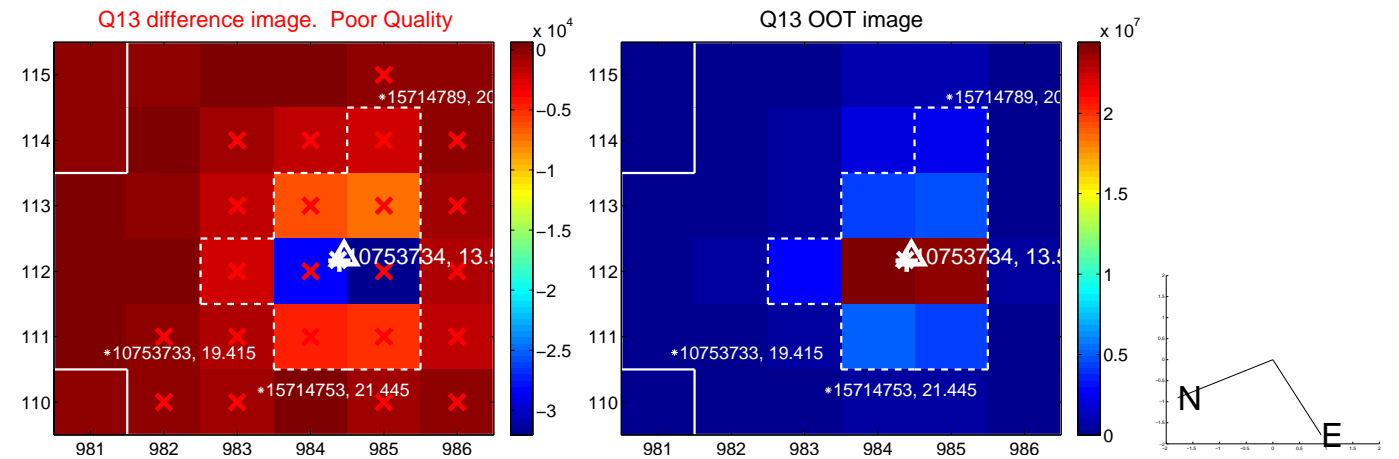
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



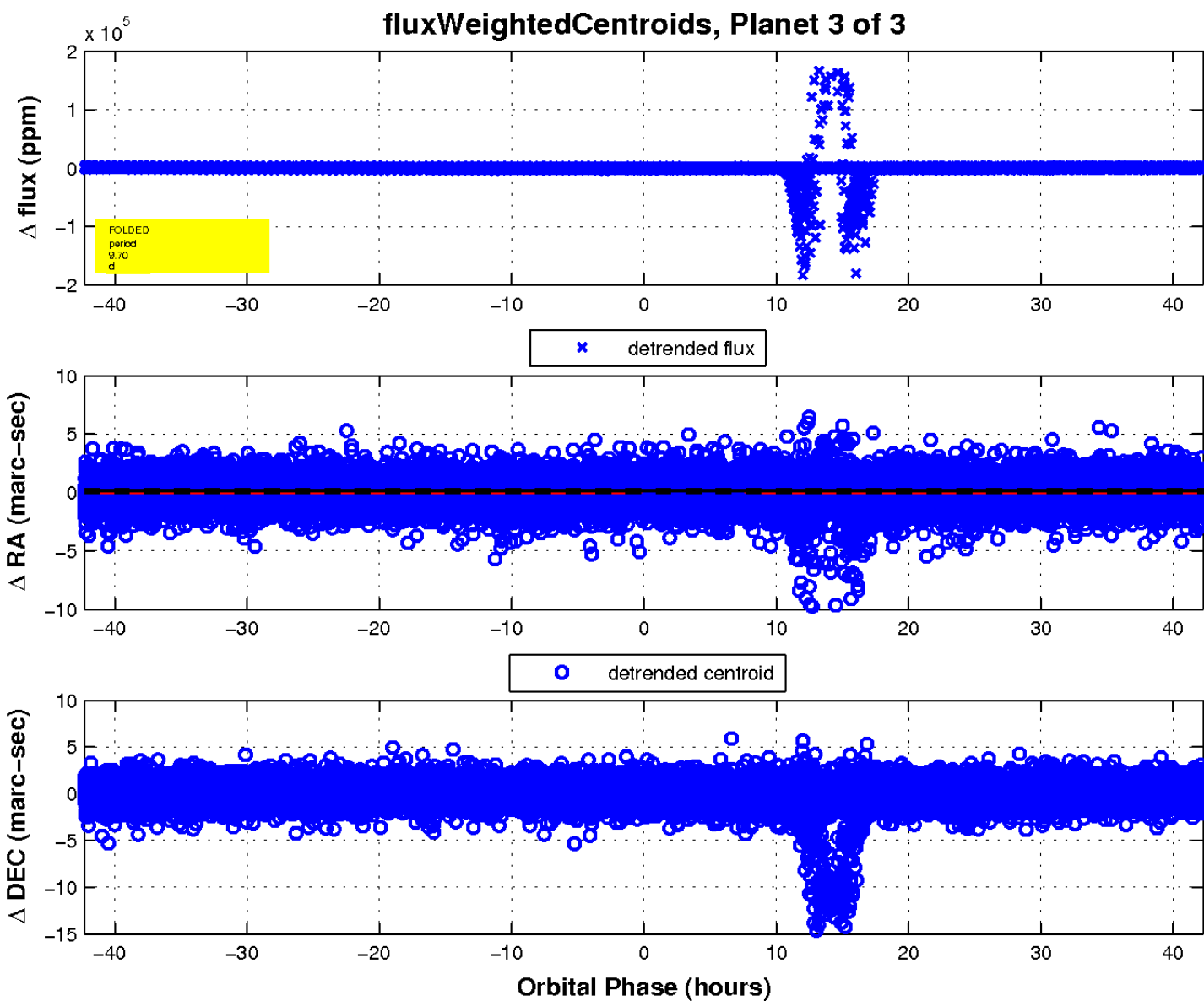
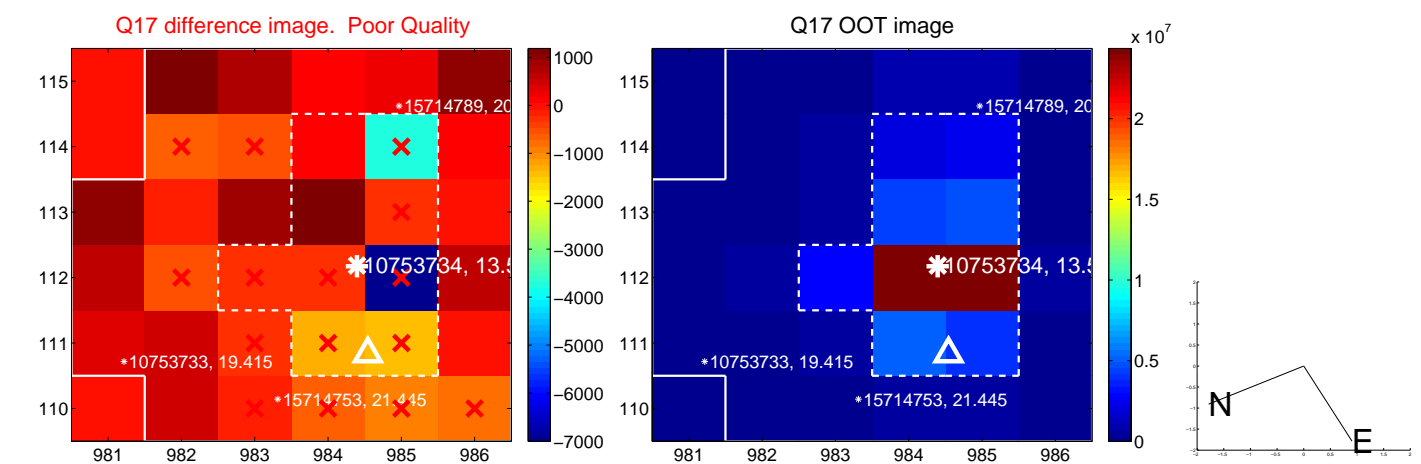
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

