

KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

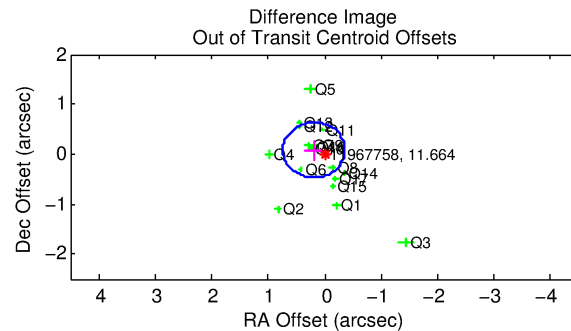
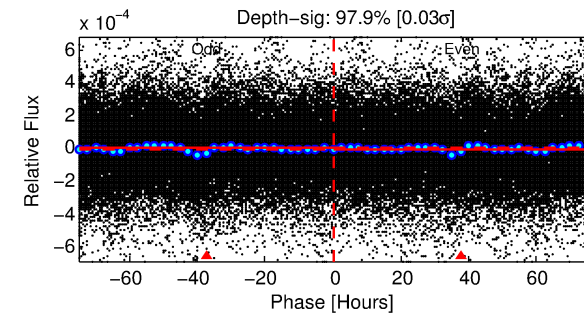
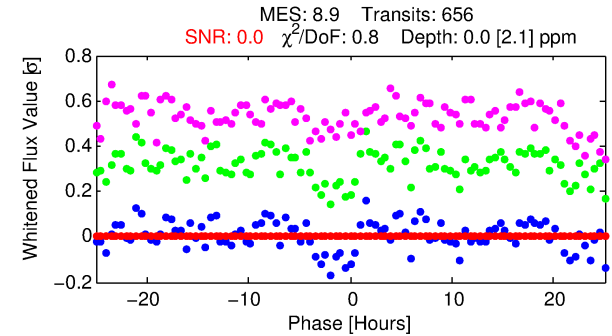
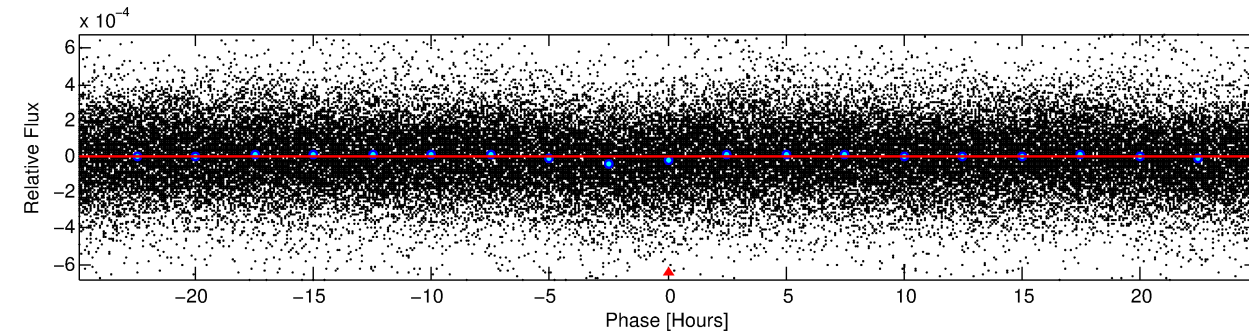
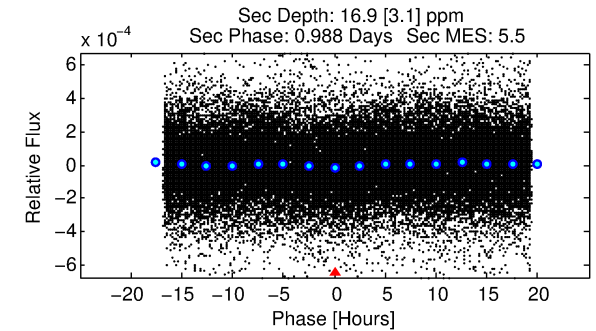
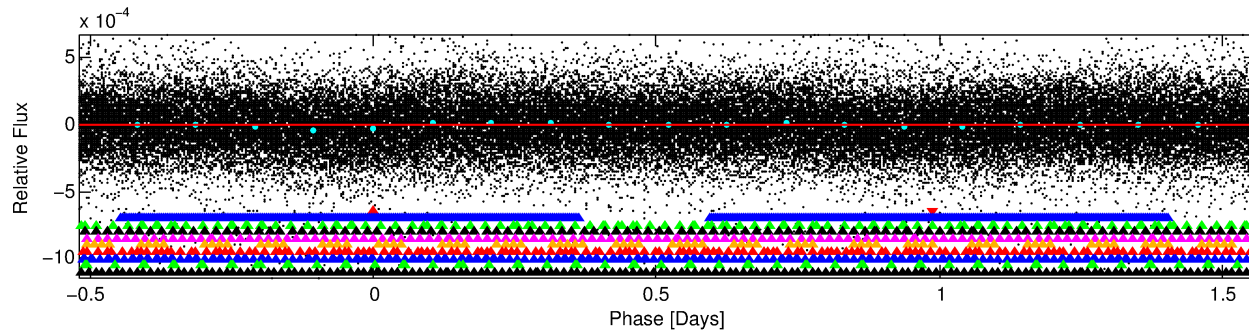
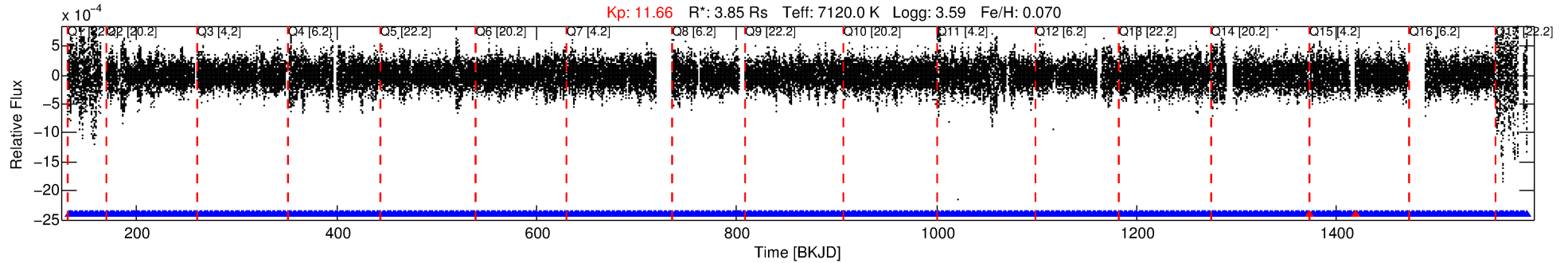
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-01

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 1 of 10 Period: 2.083 d



DV Fit Results:

Period = 2.08257 [0.01627] d
Epoch = 132.1987 [3.1856] BKJD
 $R_p/R^* = 0.0002$ [0.0068]
 $a/R^* = 1.09$ [3.51]
 $b = 0.90$ [4.64]
 $S_{\text{eff}} = 20390.64$ [11340.77]
 $T_{\text{eq}} = 3047$ [424] K
 $R_p = 0.07$ [2.86] R_e
 $a = 0.0409$ [0.0140] AU
 $A_g = 2839.43$ [219361.75] [0.01σ]
 $T_{\text{eff}} = 34390$ [664211] K [0.05σ]

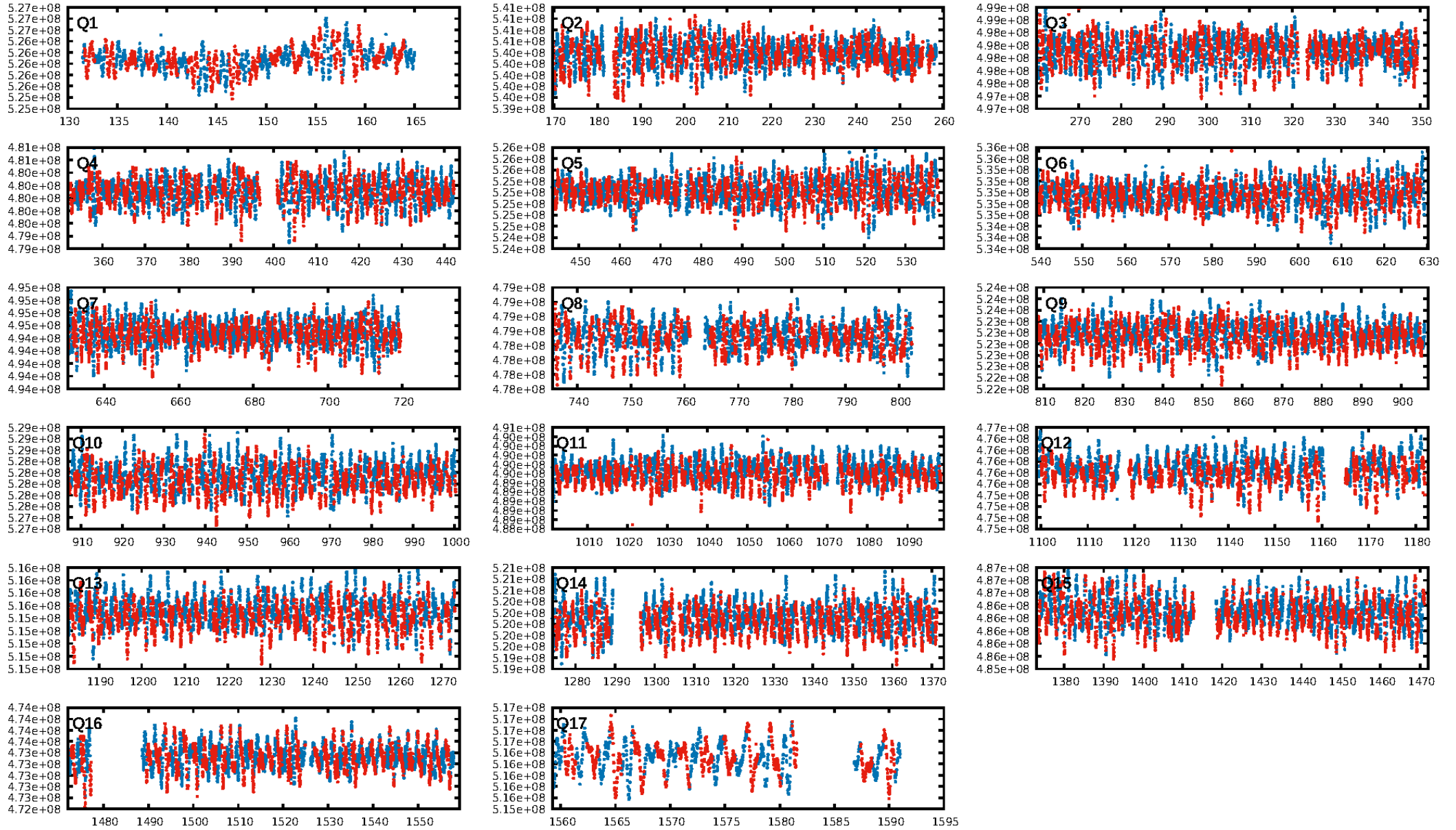
DV Diagnostic Results:

ShortPeriod-sig: 92.4% [1.78σ]
LongPeriod-sig: 100.0% [6.25σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [625/627]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.208 arcsec [1.14σ]
KicOffset-rm: 0.258 arcsec [1.54σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
DiffImageOverlap-fno: 0.00 [0/17]

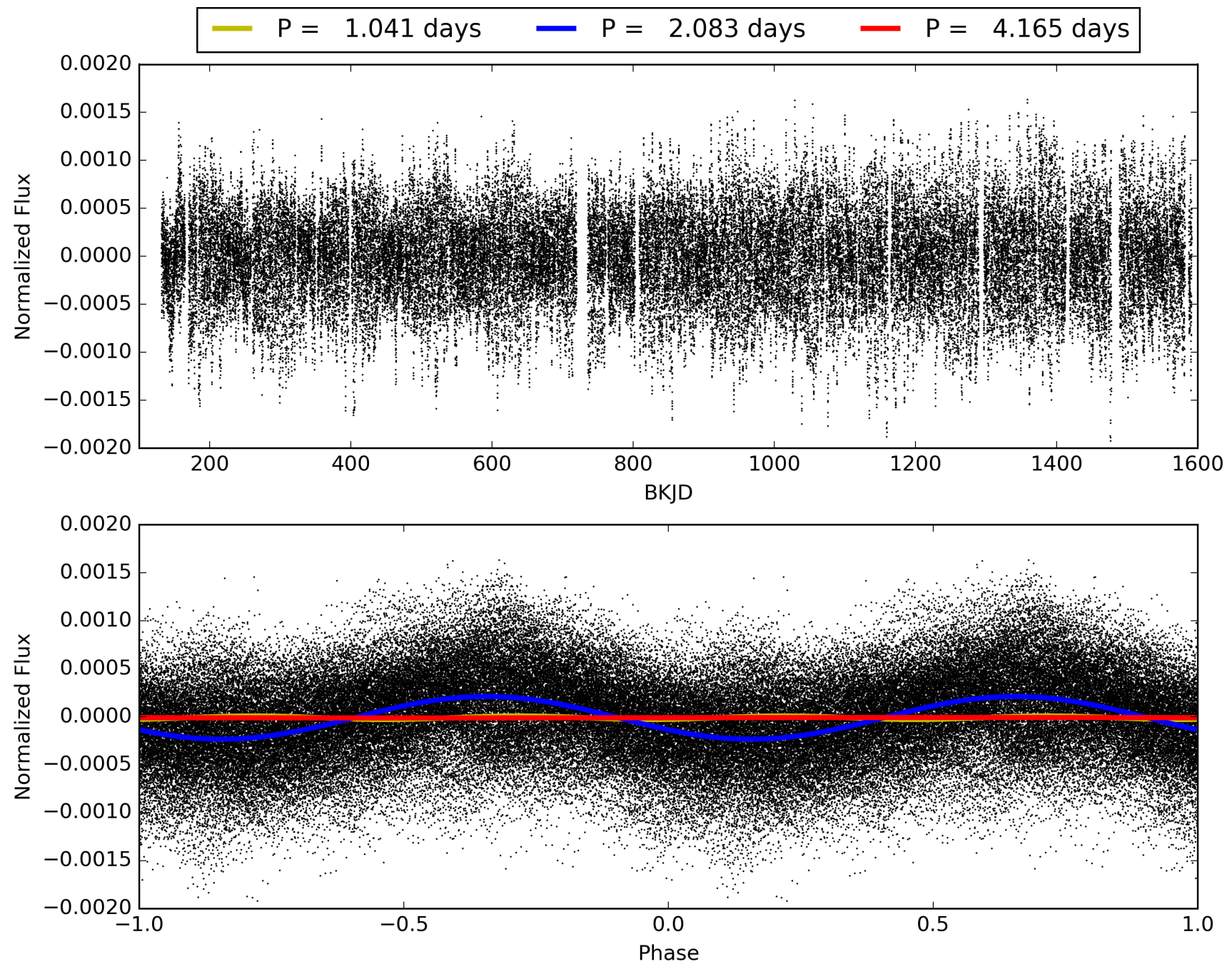
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:14:57 Z

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

TCE 011967758-01, PDC Light Curves

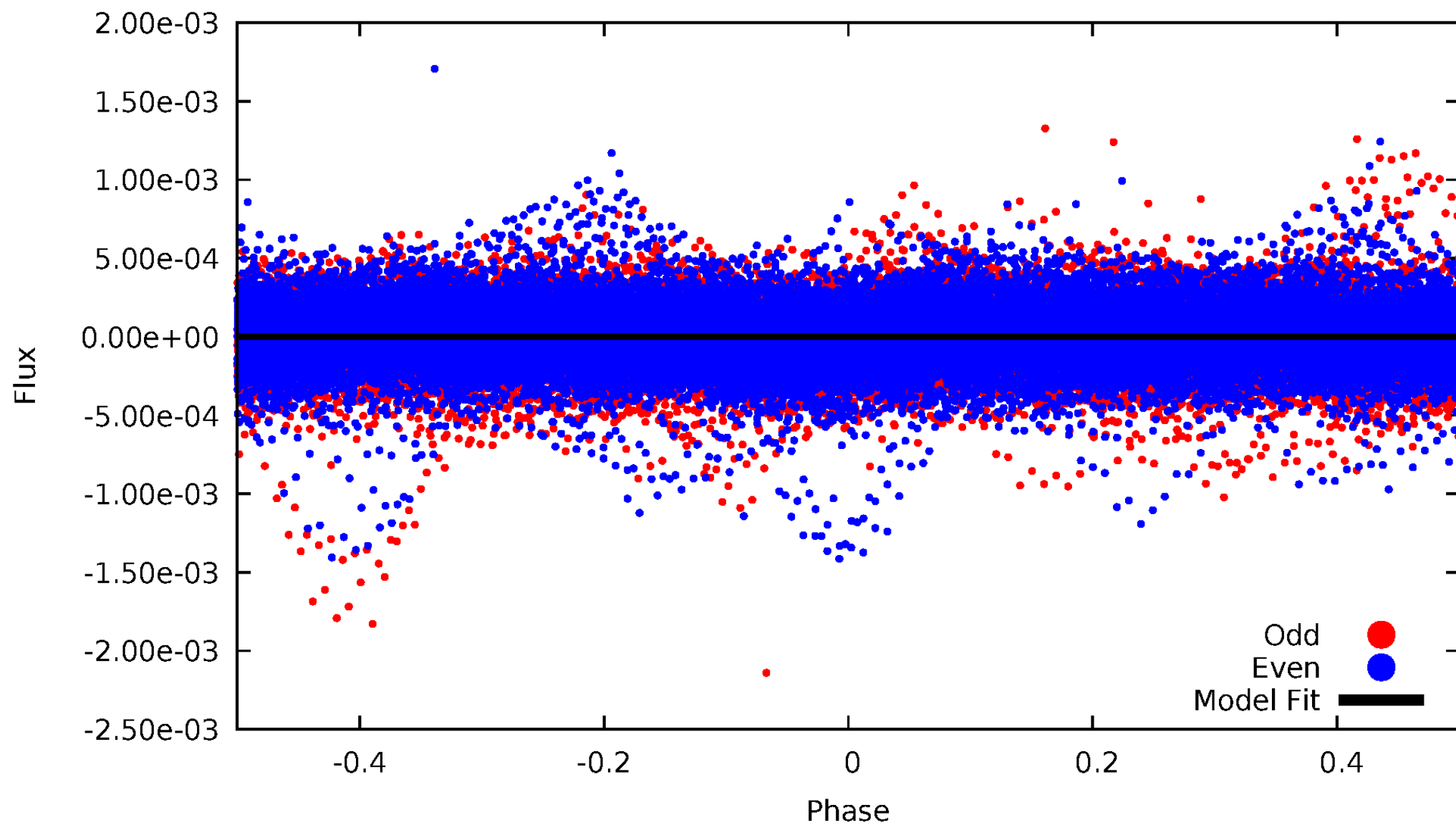


TCE 011967758-01



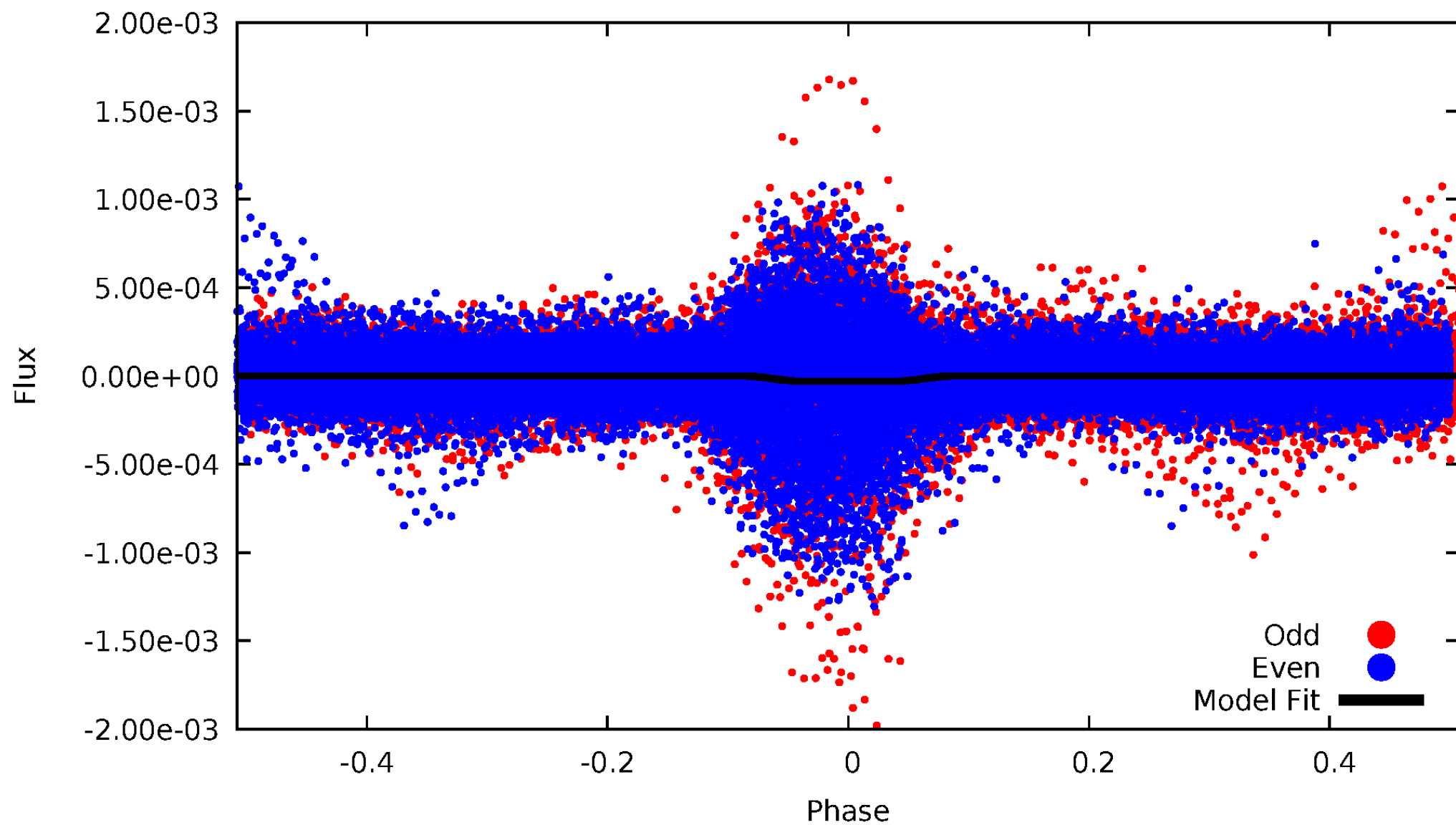
DV Odd/Even

TCE 011967758-01



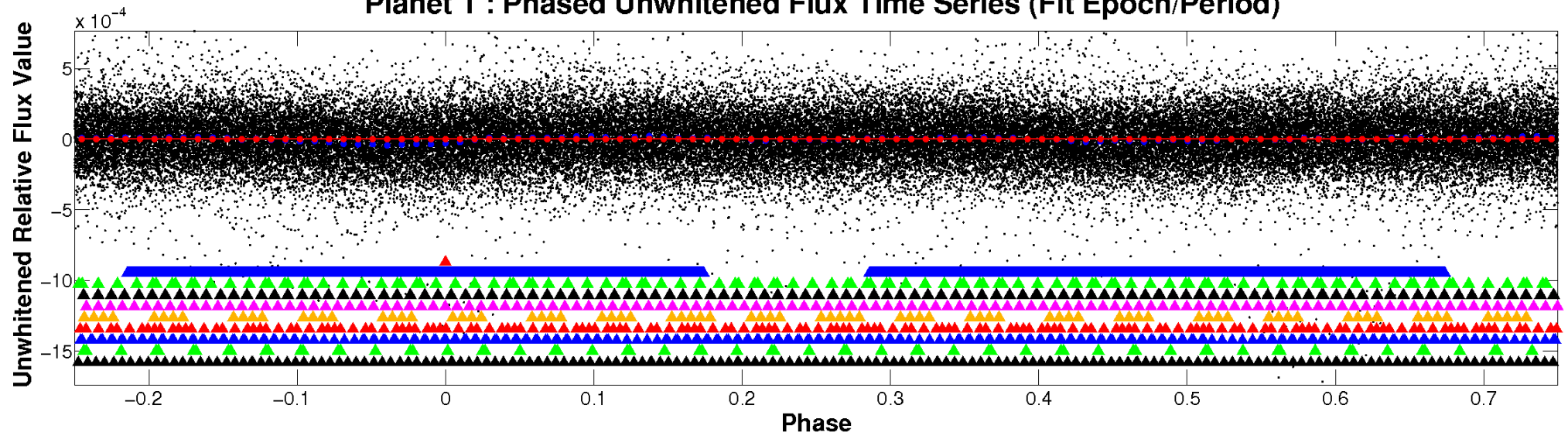
ALT Odd/Even

TCE 011967758-01

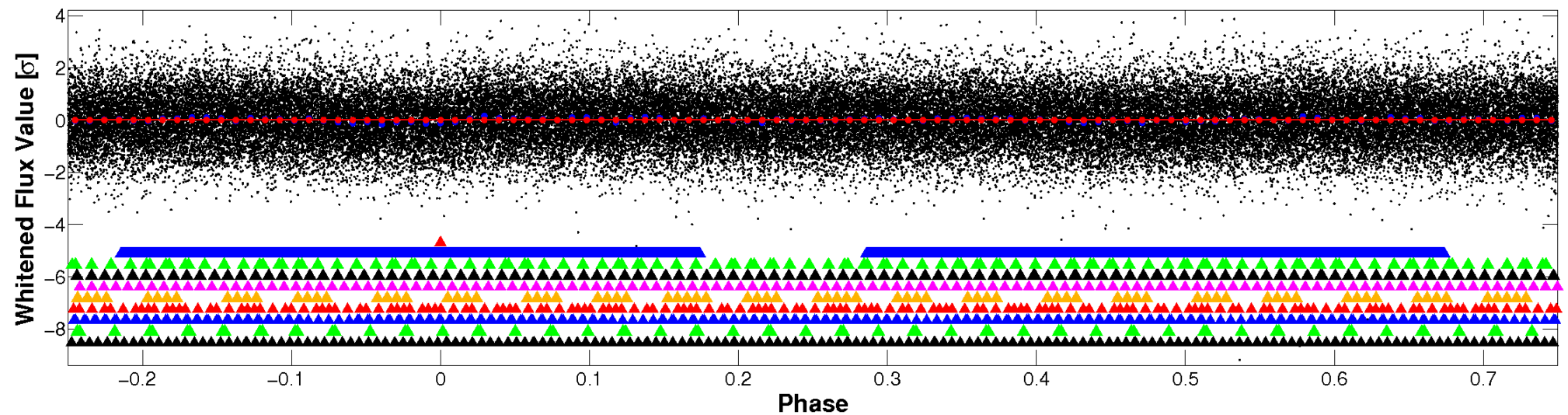


Non-Whitened Vs. Whitened Light Curve

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

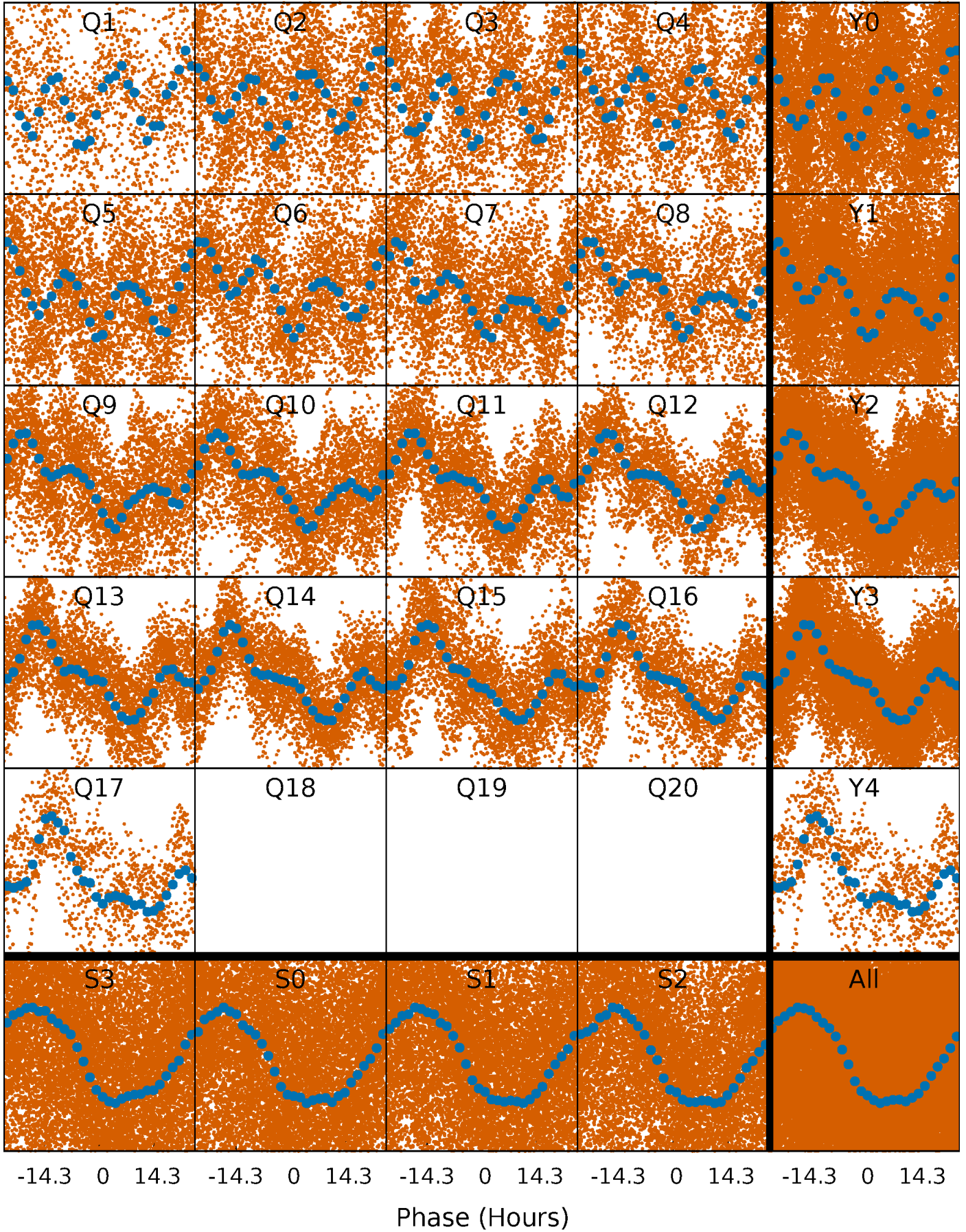


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



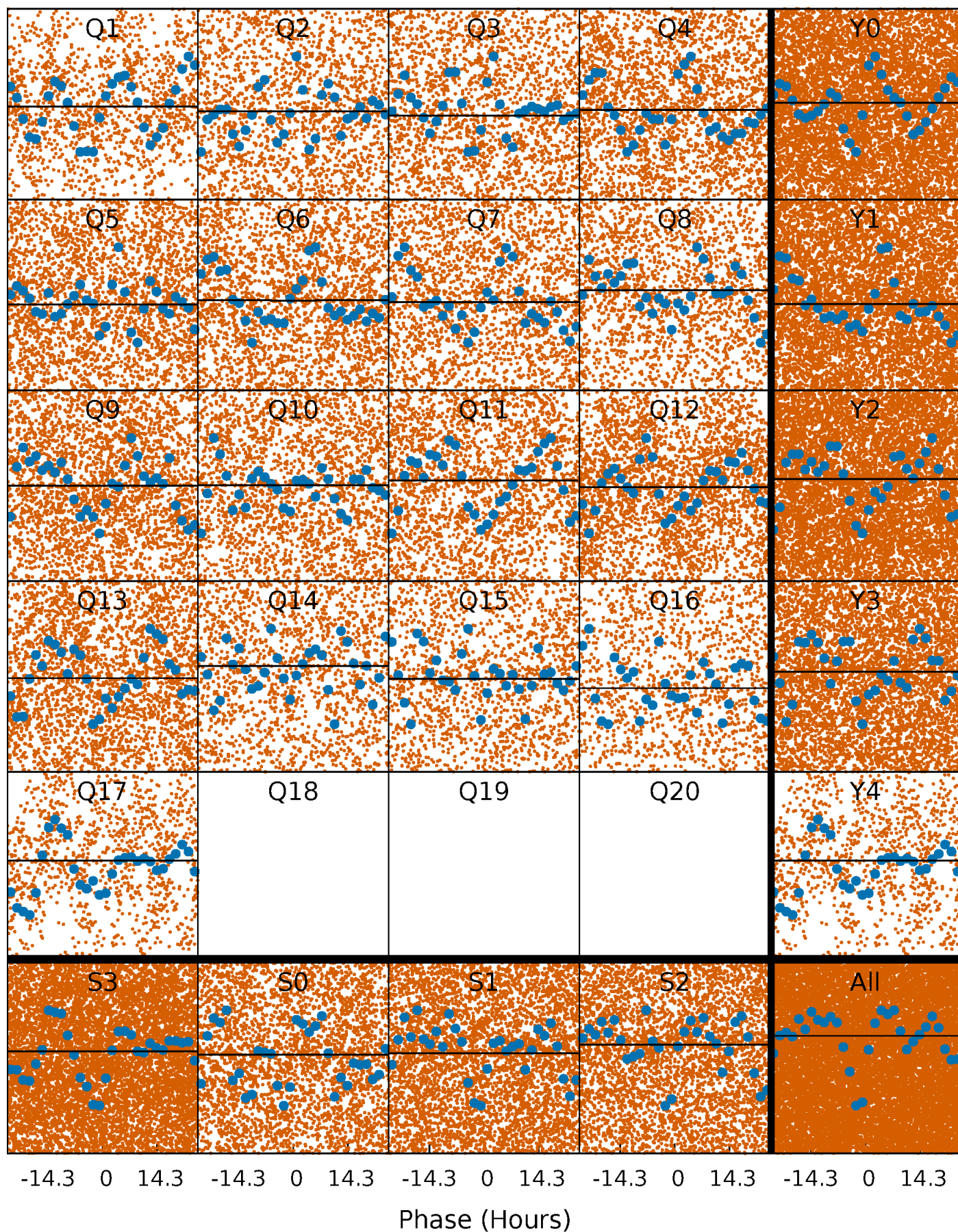
PDC Quarter-Phased Transit Curves

TCE 011967758-01 P= 2.082565 Days $T_0=132.198694$ (BKJD)



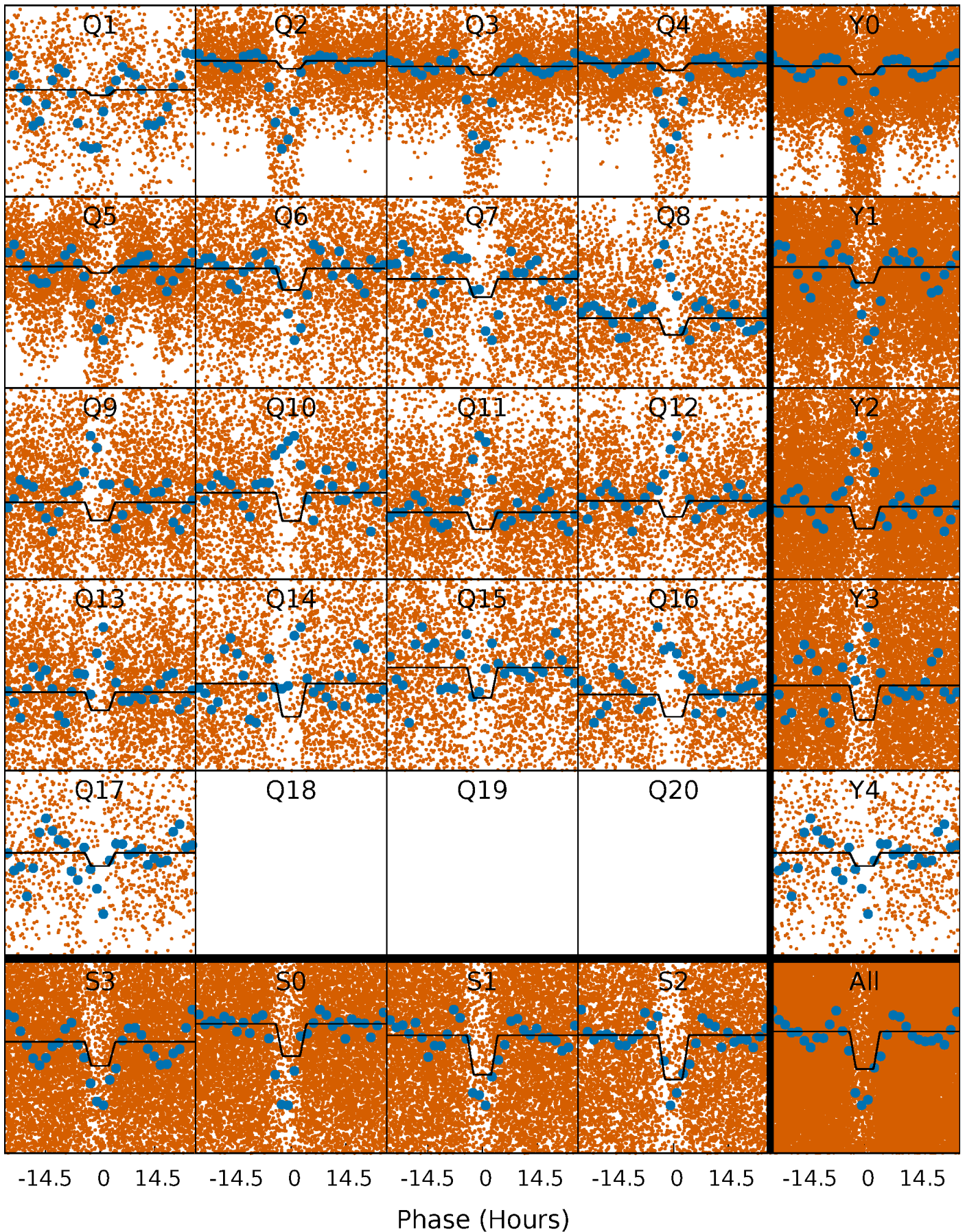
DV Quarter-Phased Transit Curves

TCE 011967758-01 P= 2.082565 Days $T_0=132.198694$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

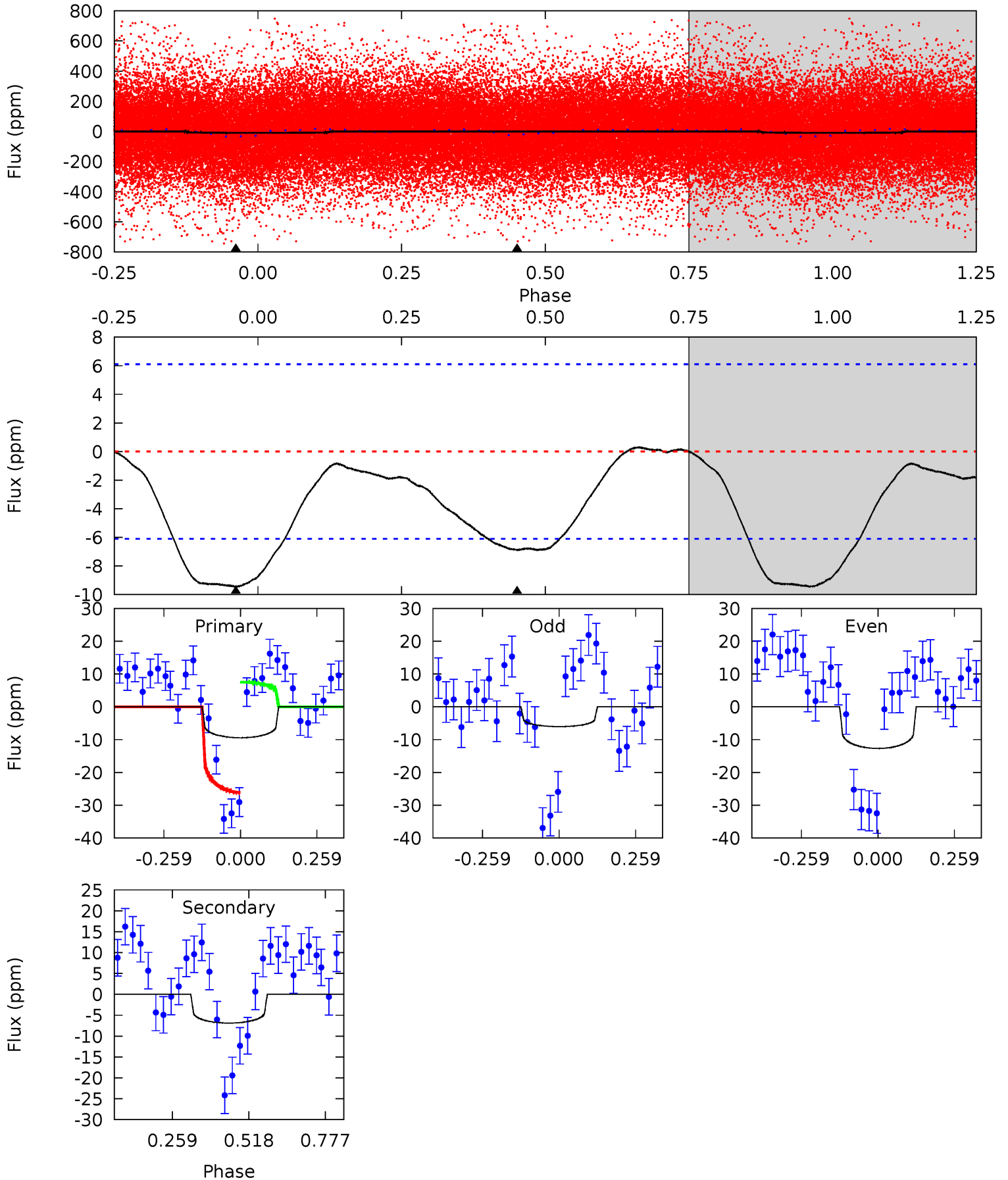
TCE 011967758-01 P= 2.082680 Days $T_0=132.136630$ (BKJD)



DV Model-Shift Uniqueness Test

011967758-01, P = 2.082565 Days, E = 130.116129 Days

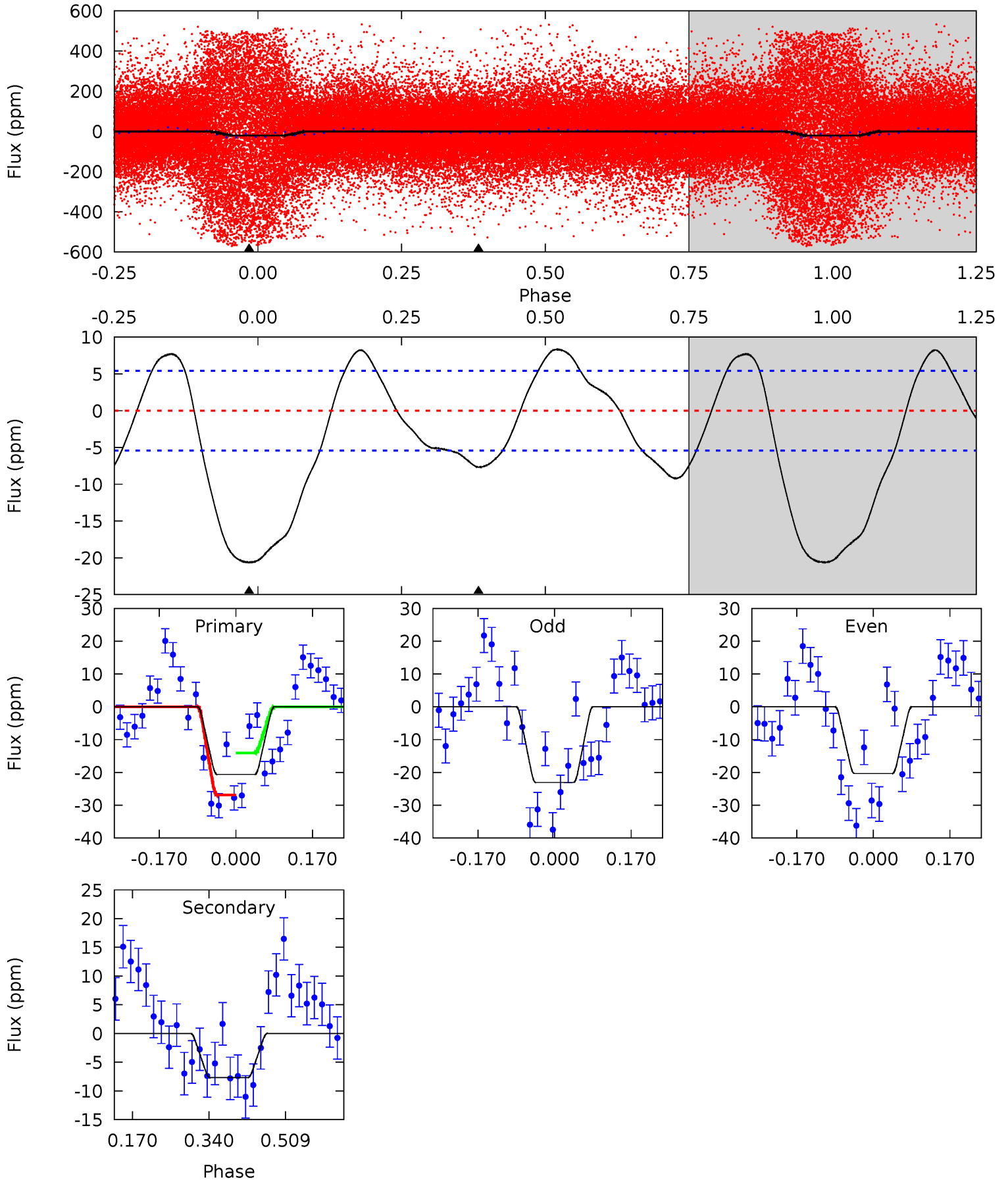
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.74	4.92	0	0	4.36	1.13	0.60	6.74	6.74	4.92	4.92	2.39	10.1	0.03	6.65



Alt Model-Shift Uniqueness Test

011967758-01, P = 2.082680 Days, E = 130.053950 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.9	6.31	0	0	4.45	1.37	4.65	16.9	16.9	6.31	6.31	1.12	1.53	0.29	5.38



Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-7 ± 1	$1.75^{+2.03}_{-1.27}$	4164^{+208}_{-358}	5246^{+5743}_{-1983}	$2.096^{+23.389}_{-1.669}$
Alt.	-8 ± 1	$2.89^{+2.54}_{-1.92}$	4137^{+224}_{-345}	4137^{+3325}_{-7039}	$0.915^{+6.328}_{-0.679}$

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 $A_{obs} \gg 1.0$

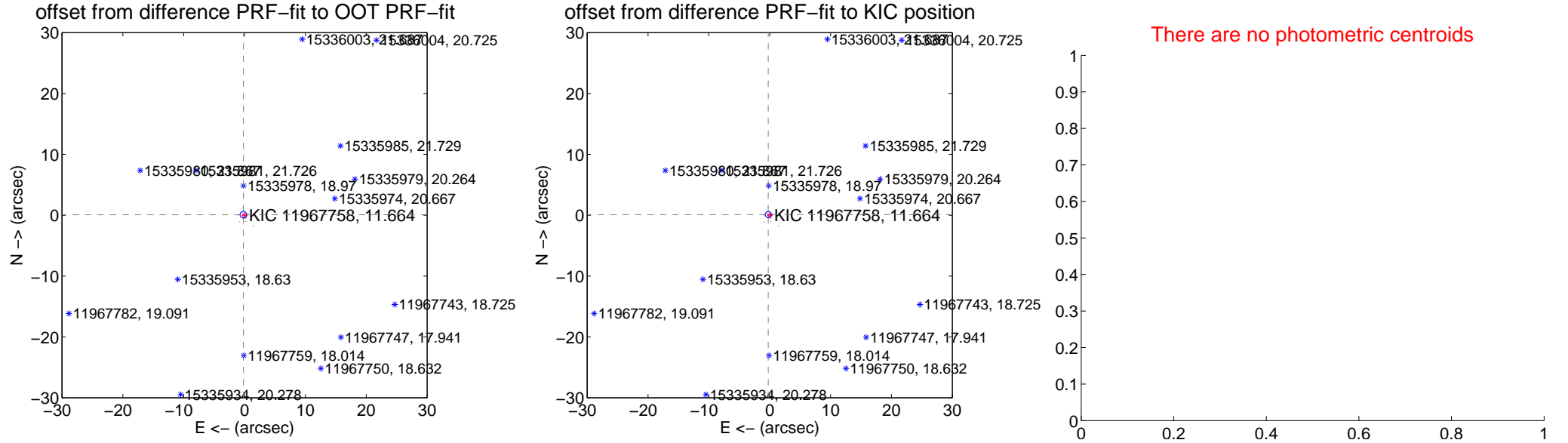
DV Centroid Data

Supplemental centroid analysis for 011967758-01. **Kepler magnitude: 11.66.** Transit SNR 0.01

There are 16 quarters with good PRF difference image offsets

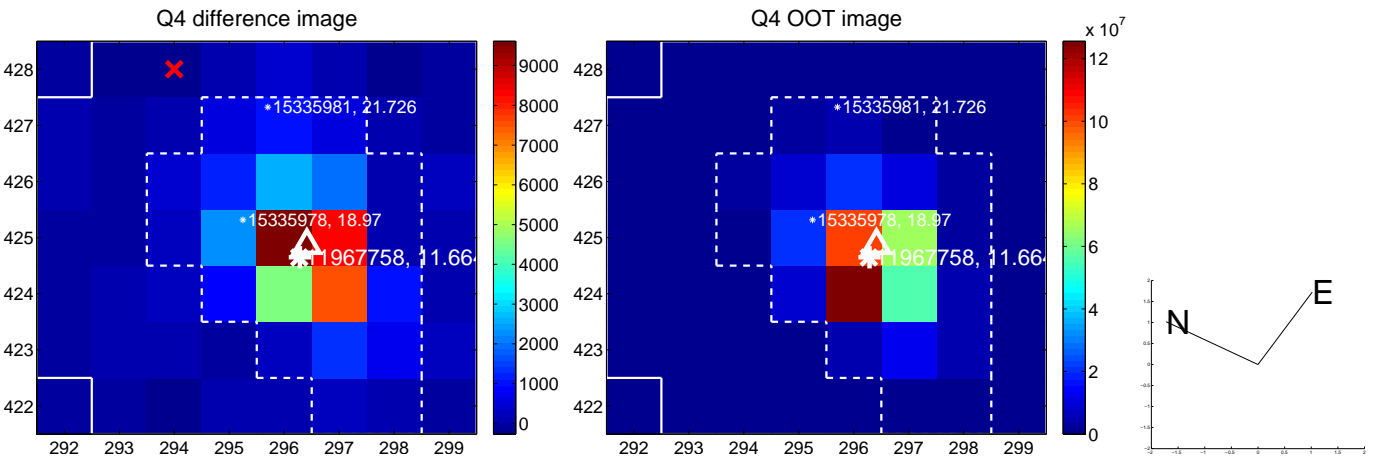
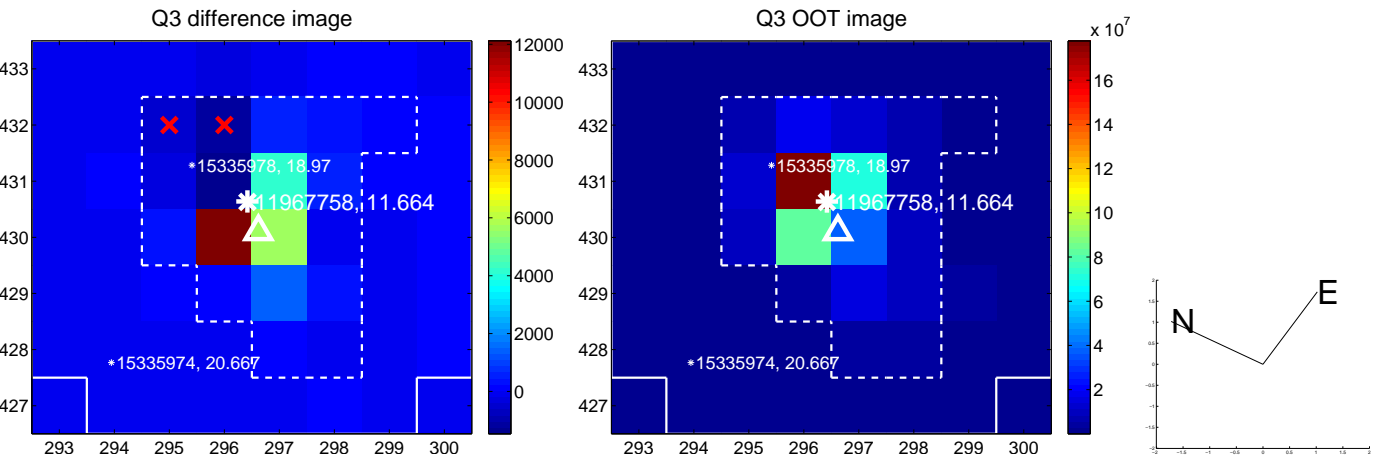
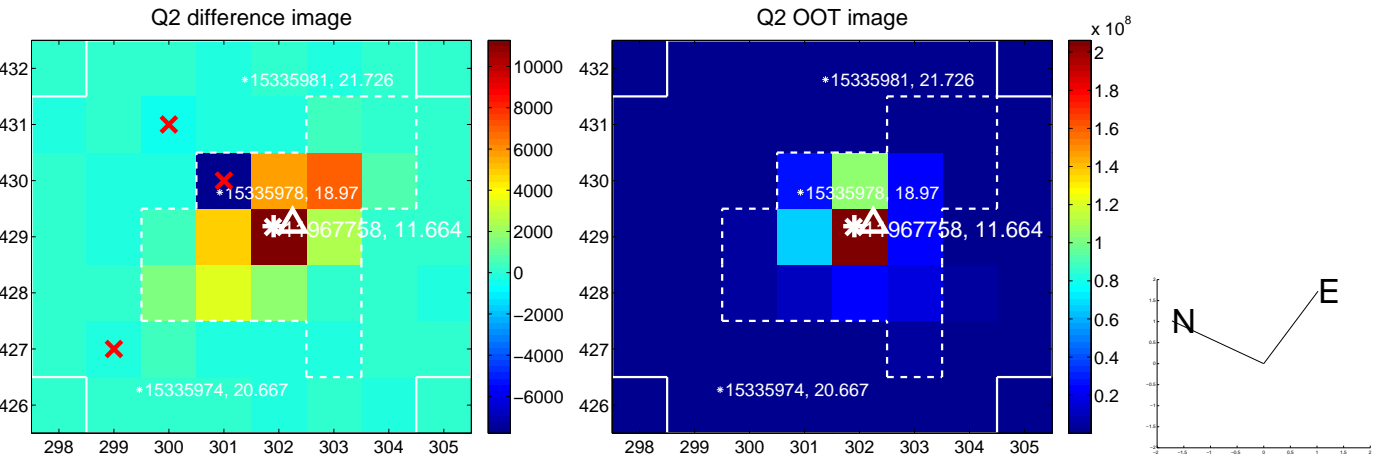
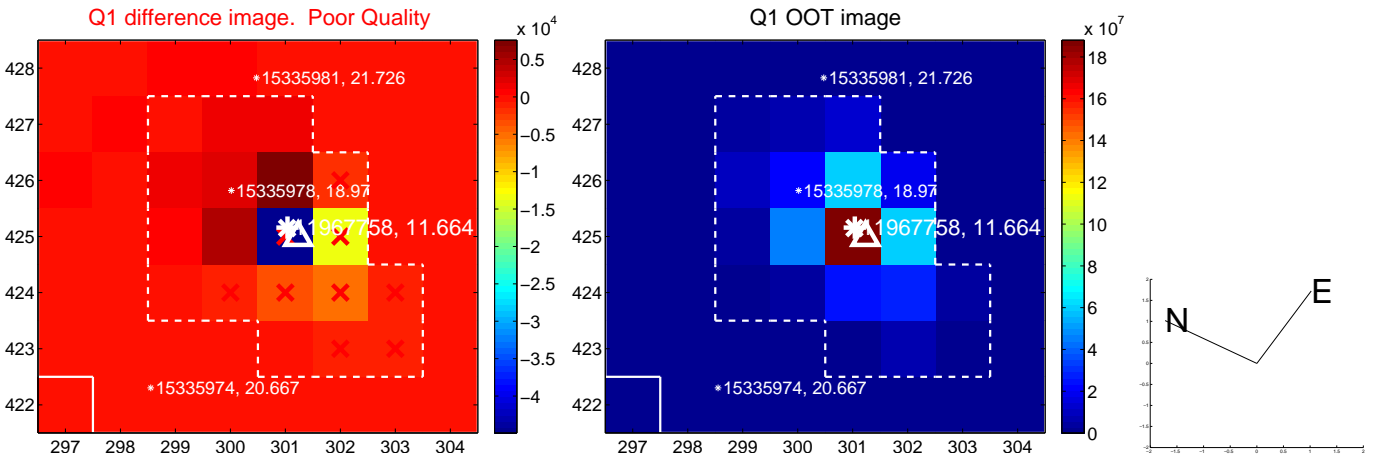
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.208 ± 0.183	1.14	0.191 ± 0.151	0.082 ± 0.182
PRF-fit source offset from KIC position	0.258 ± 0.168	1.54	0.242 ± 0.145	0.091 ± 0.179
photometric centroid source offset	—	—	—	—

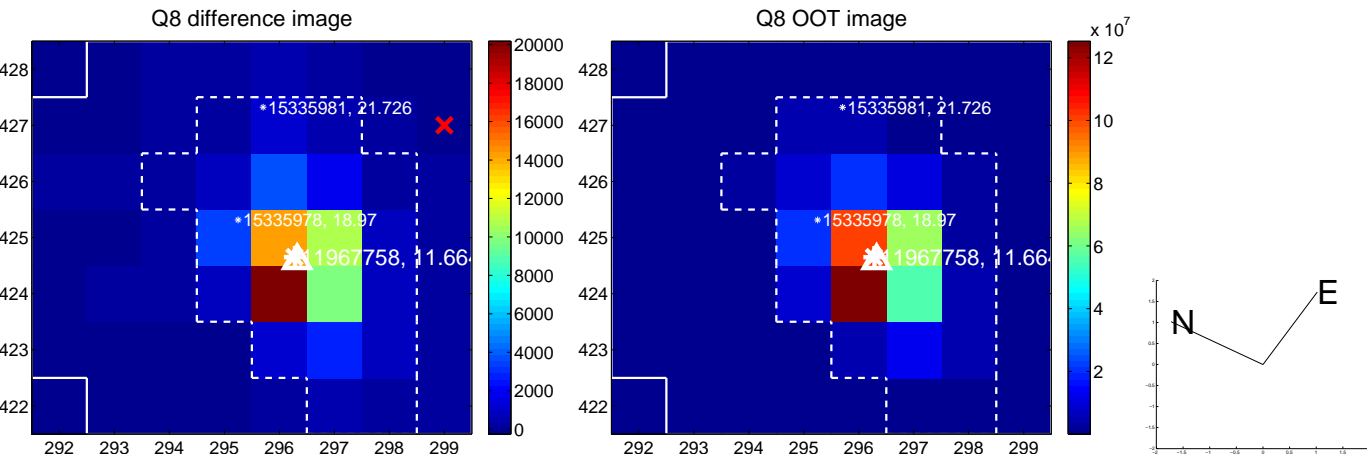
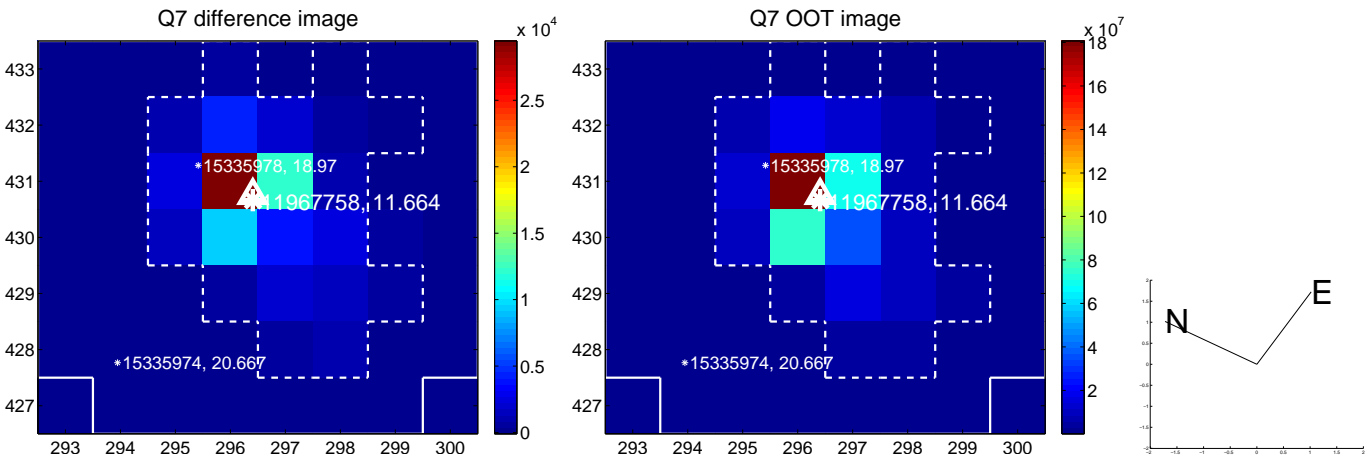
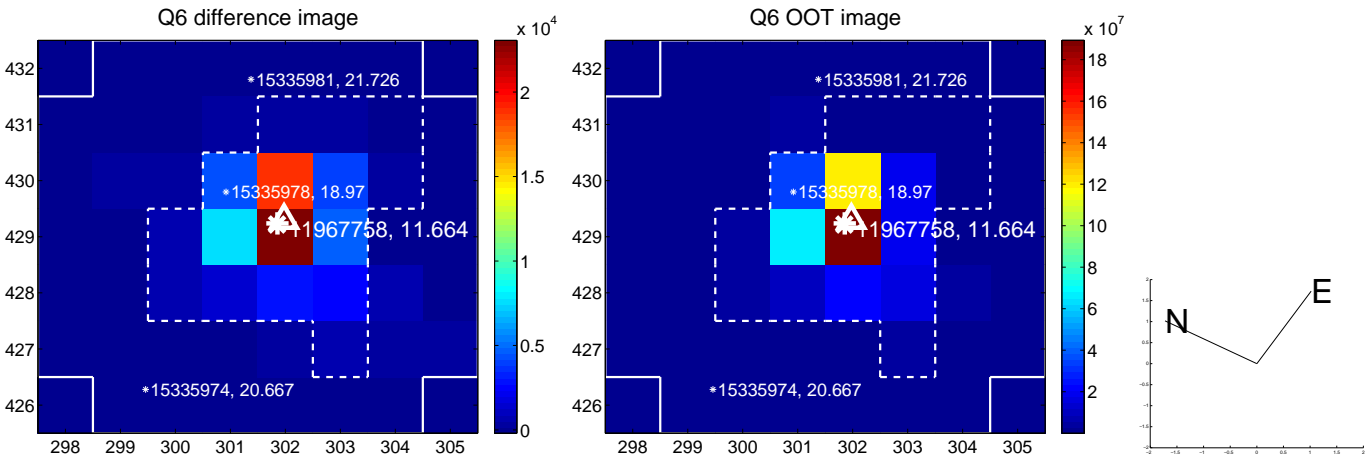
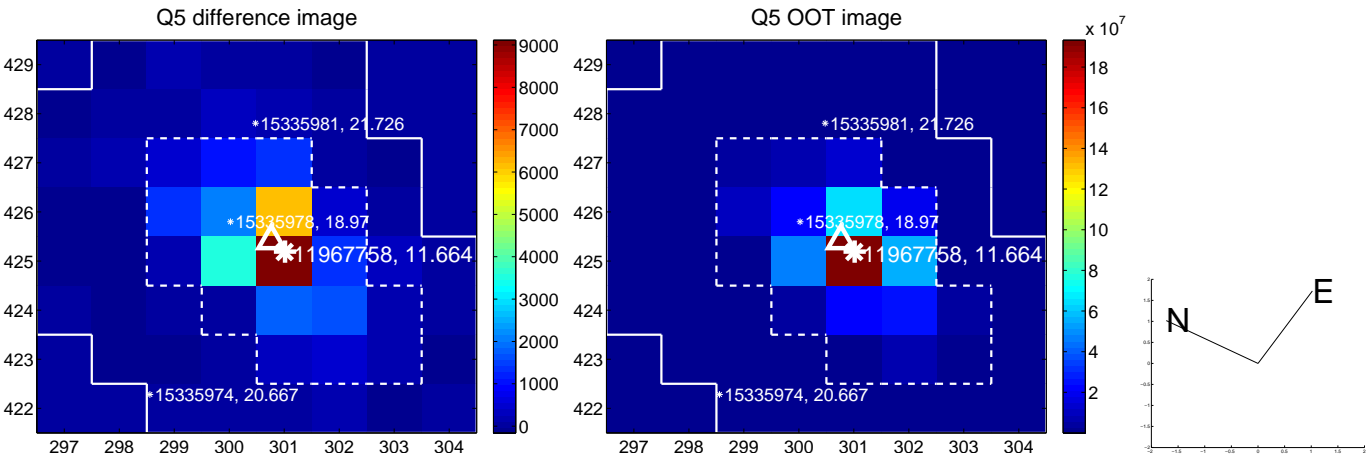


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

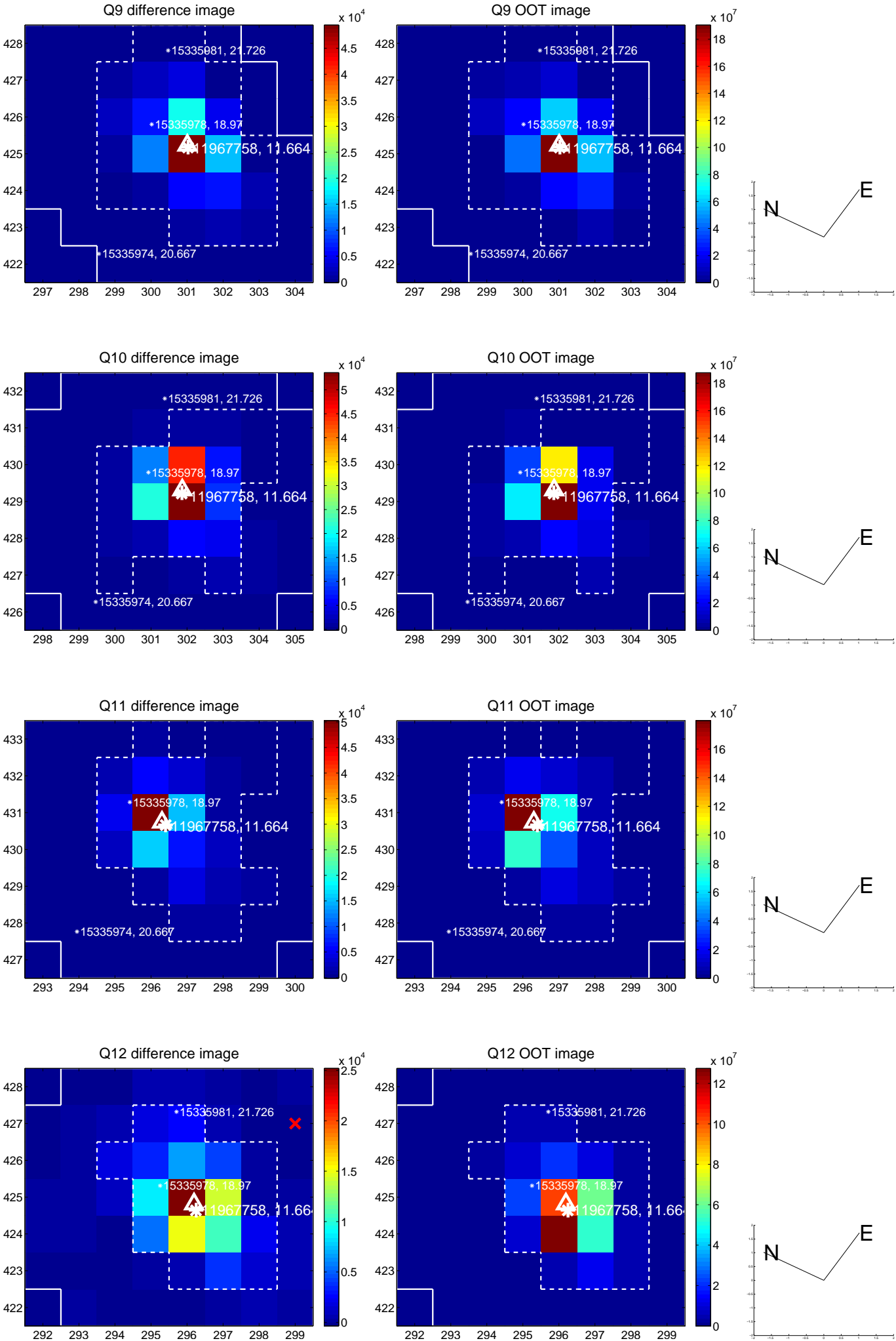
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



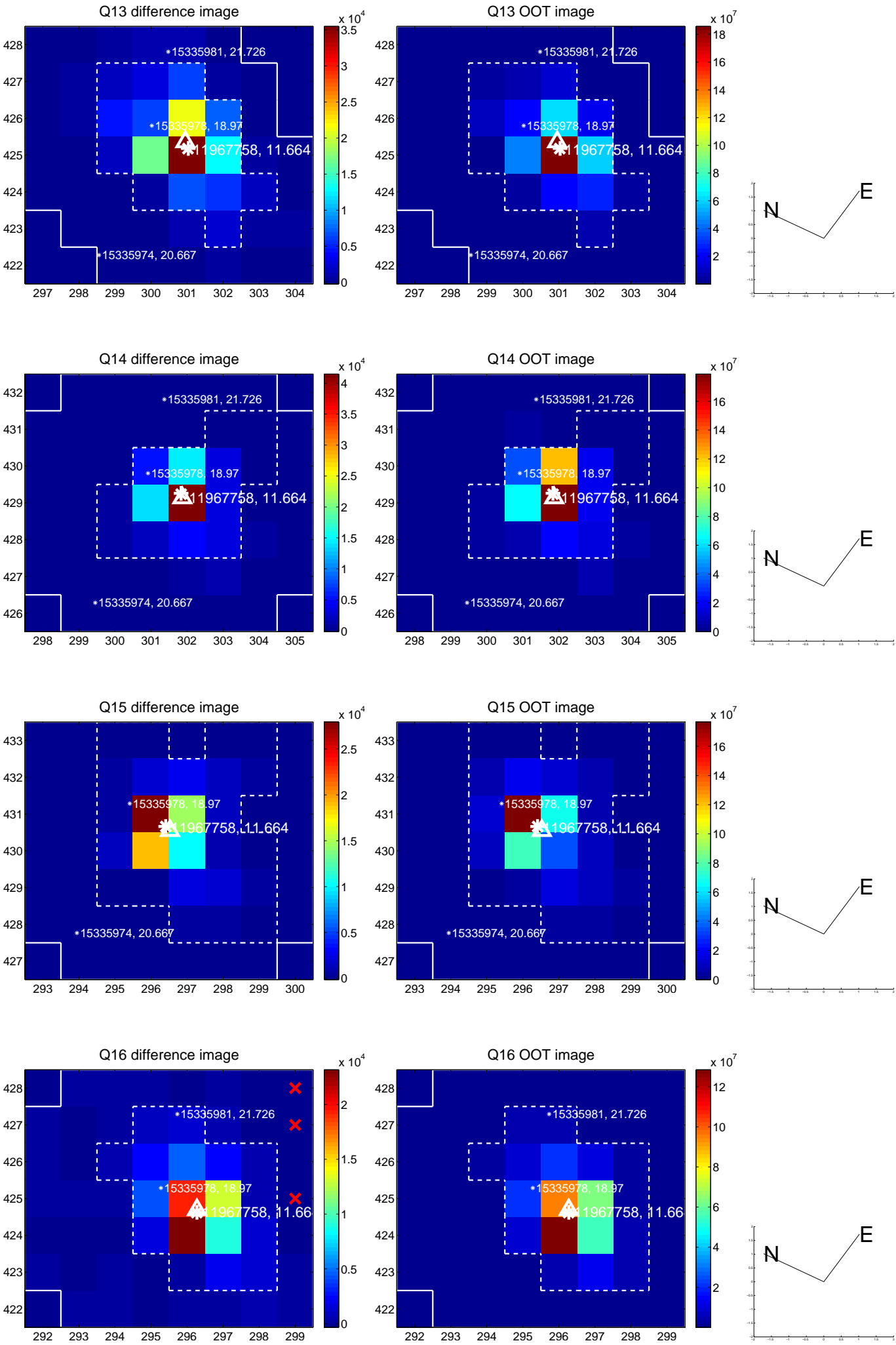
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



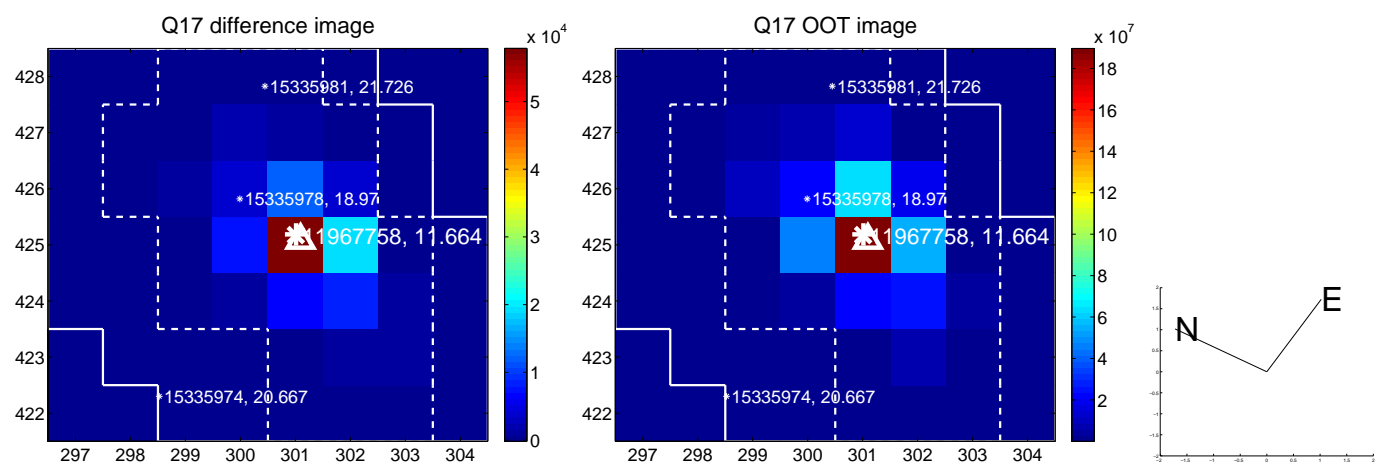
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



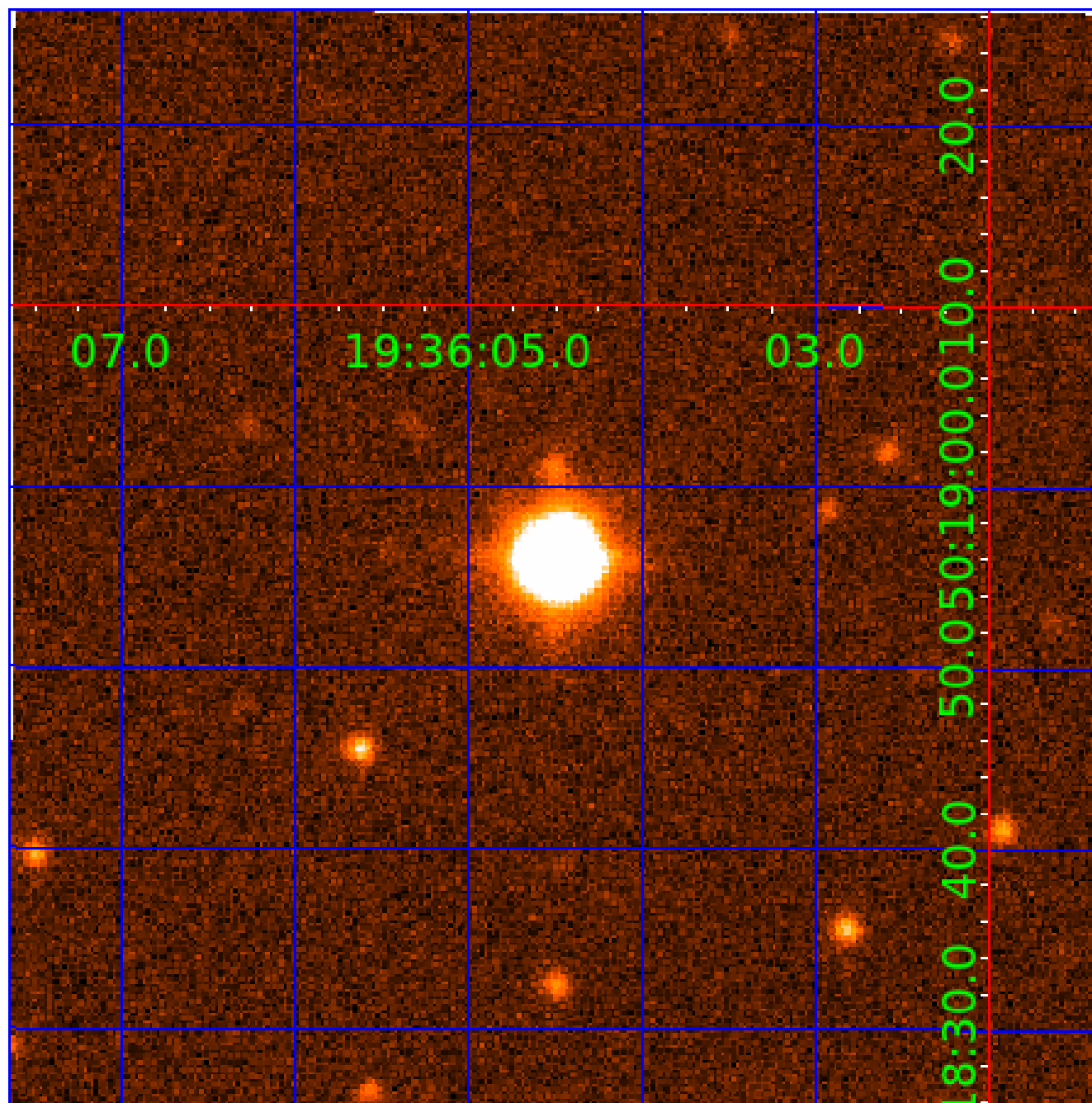
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

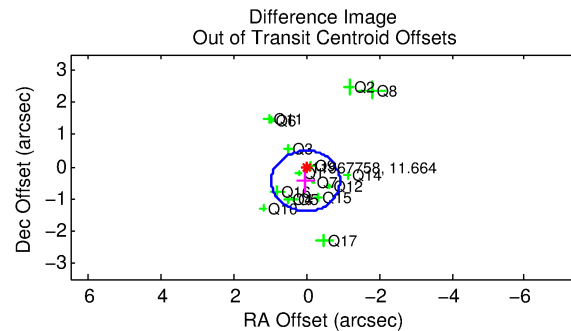
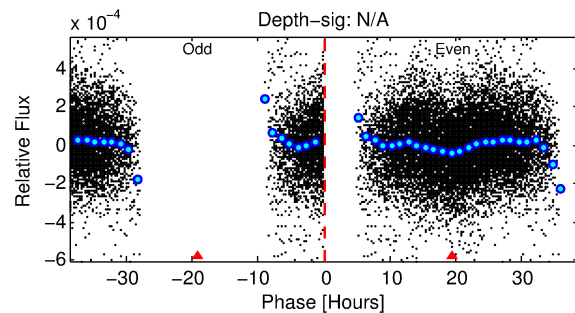
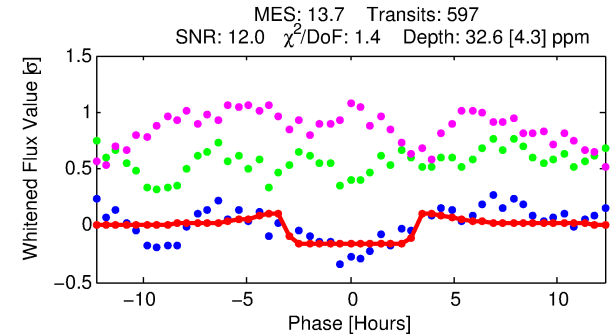
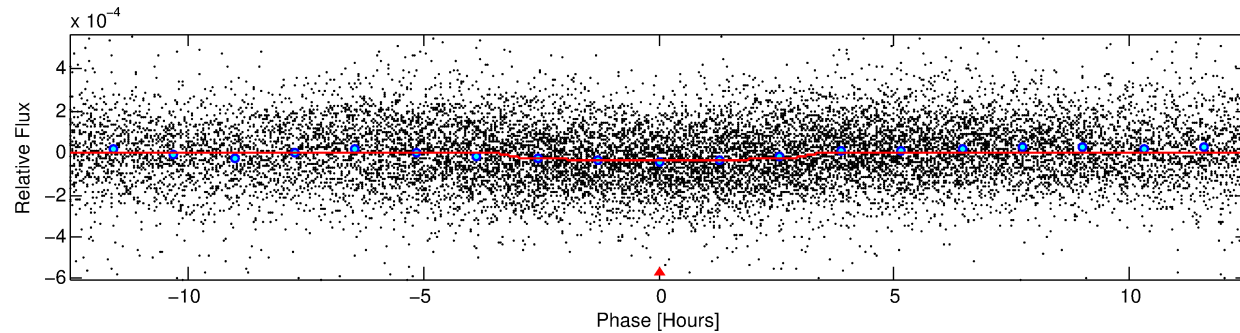
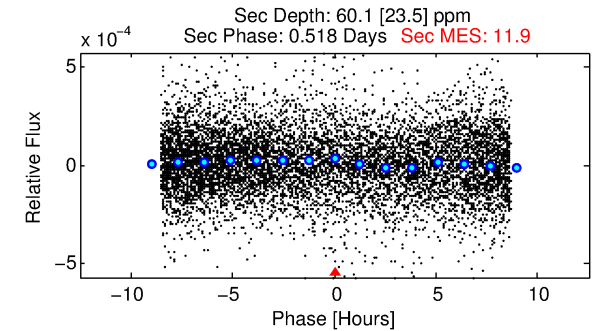
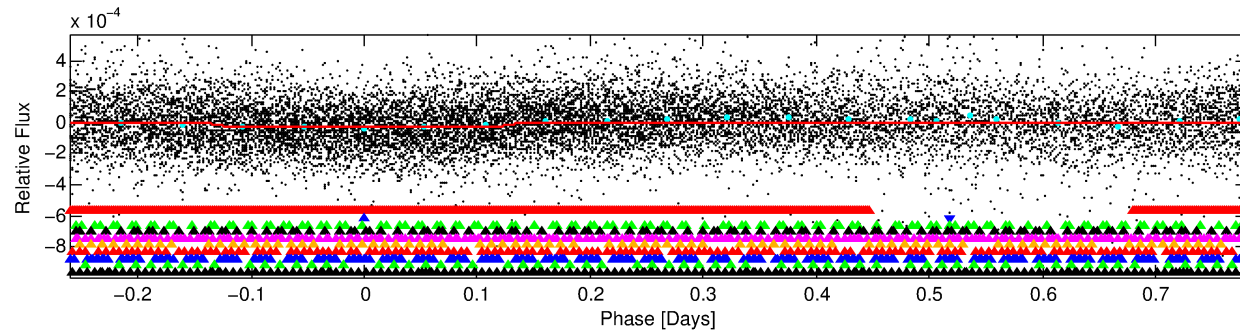
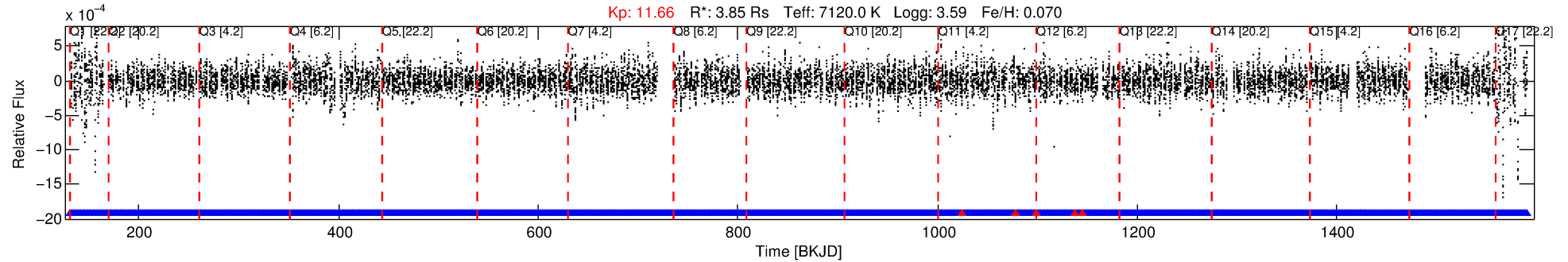
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-02

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 2 of 10 Period: 1.042 d



DV Fit Results:

Period = 1.04186 [0.00001] d
Epoch = 131.7520 [0.0037] BKJD
Rp/R* = 0.0054 [0.0028]
a/R* = 1.29 [1.54]
b = 0.54 [3.92]
Seff = 51343.19 [28550.80]
Teq = 3838 [534] K
Rp = 2.29 [1.43] Re
a = 0.0258 [0.0088] AU
Ag = 4.19 [5.10] [0.63σ]
Teffp = 8493 [2329] K [1.95σ]

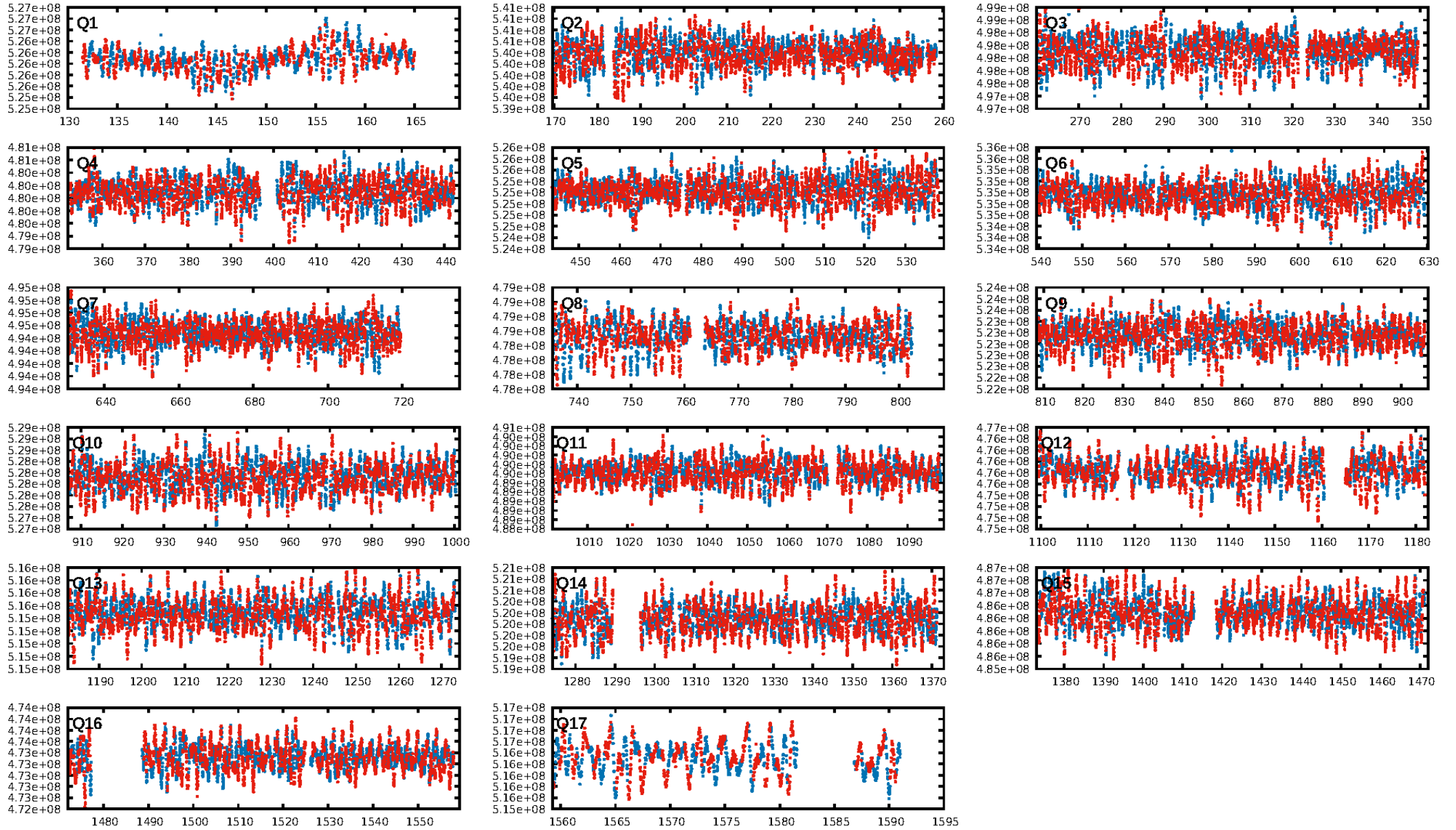
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 92.4% [1.78σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGo-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [579/584]
GhostDiagnostic-chr: 2.166
Centroid-sig: 21.1%
Centroid-so: 0.357 arcsec [1.23σ]
OotOffset-rm: 0.447 arcsec [1.42σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-rm: 0.442 arcsec [1.38σ]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.75 [12/16]
DiffImageOverlap-fno: 0.59 [10/17]

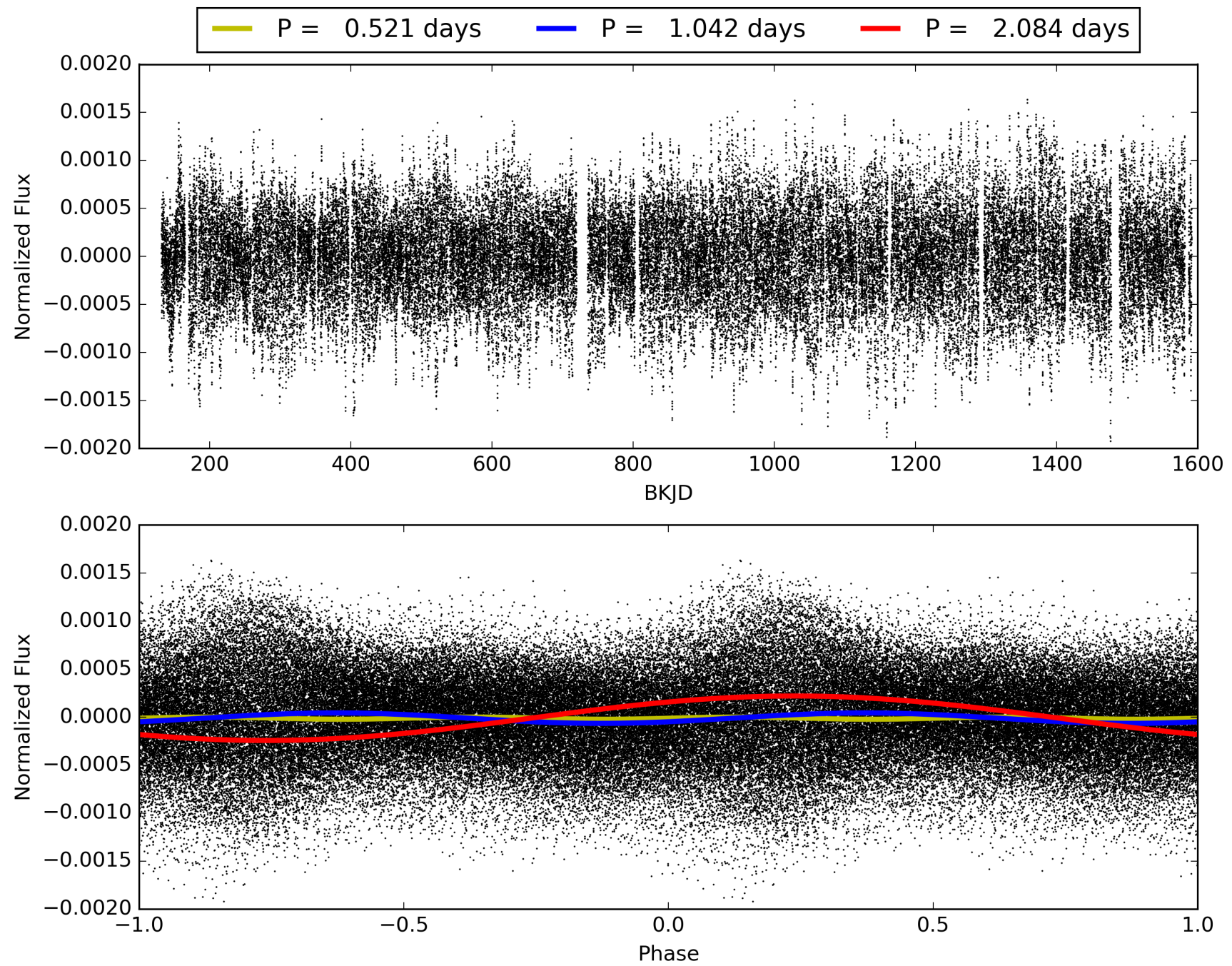
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:15:12 Z

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

TCE 011967758-02, PDC Light Curves

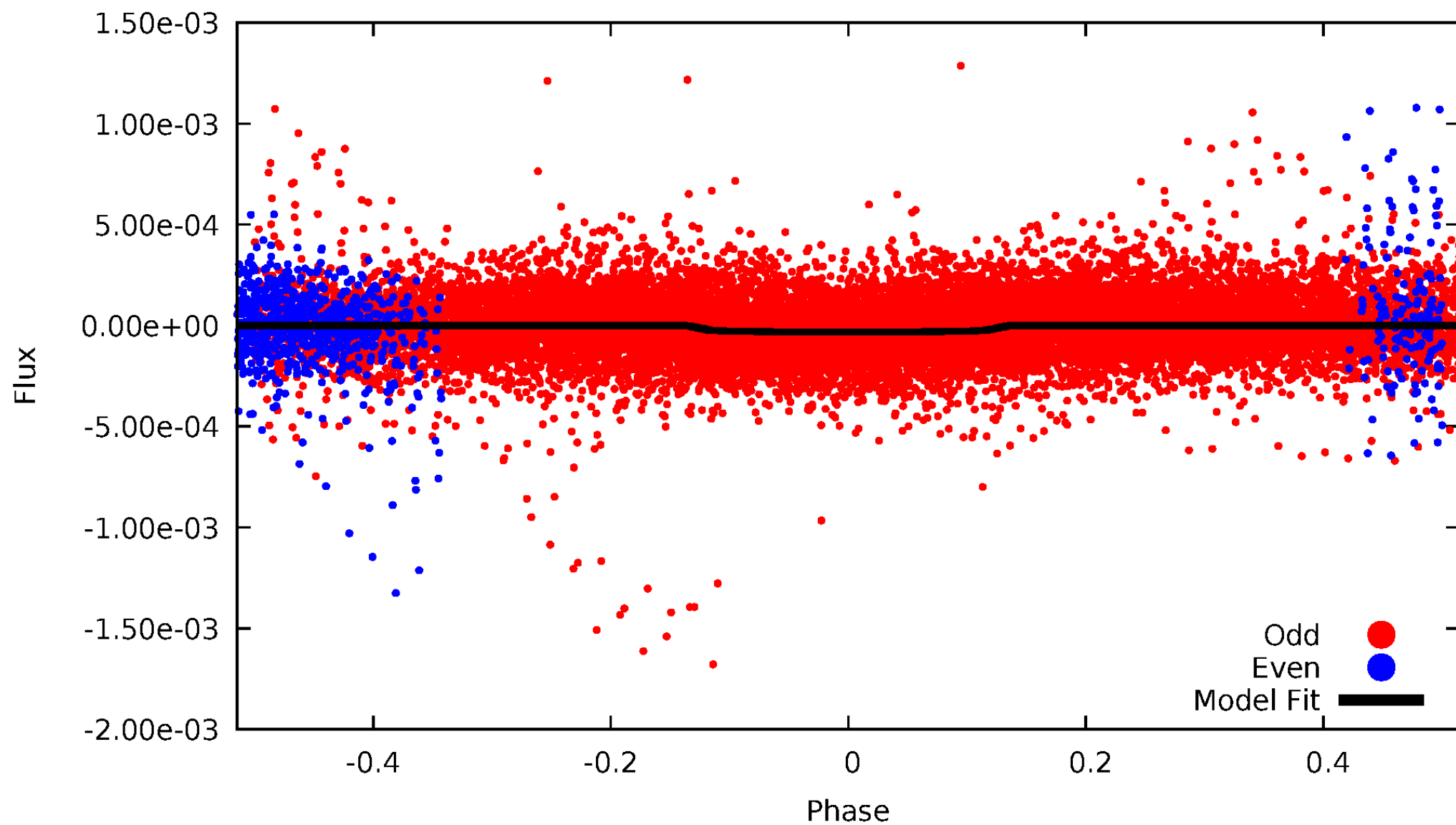


TCE 011967758-02



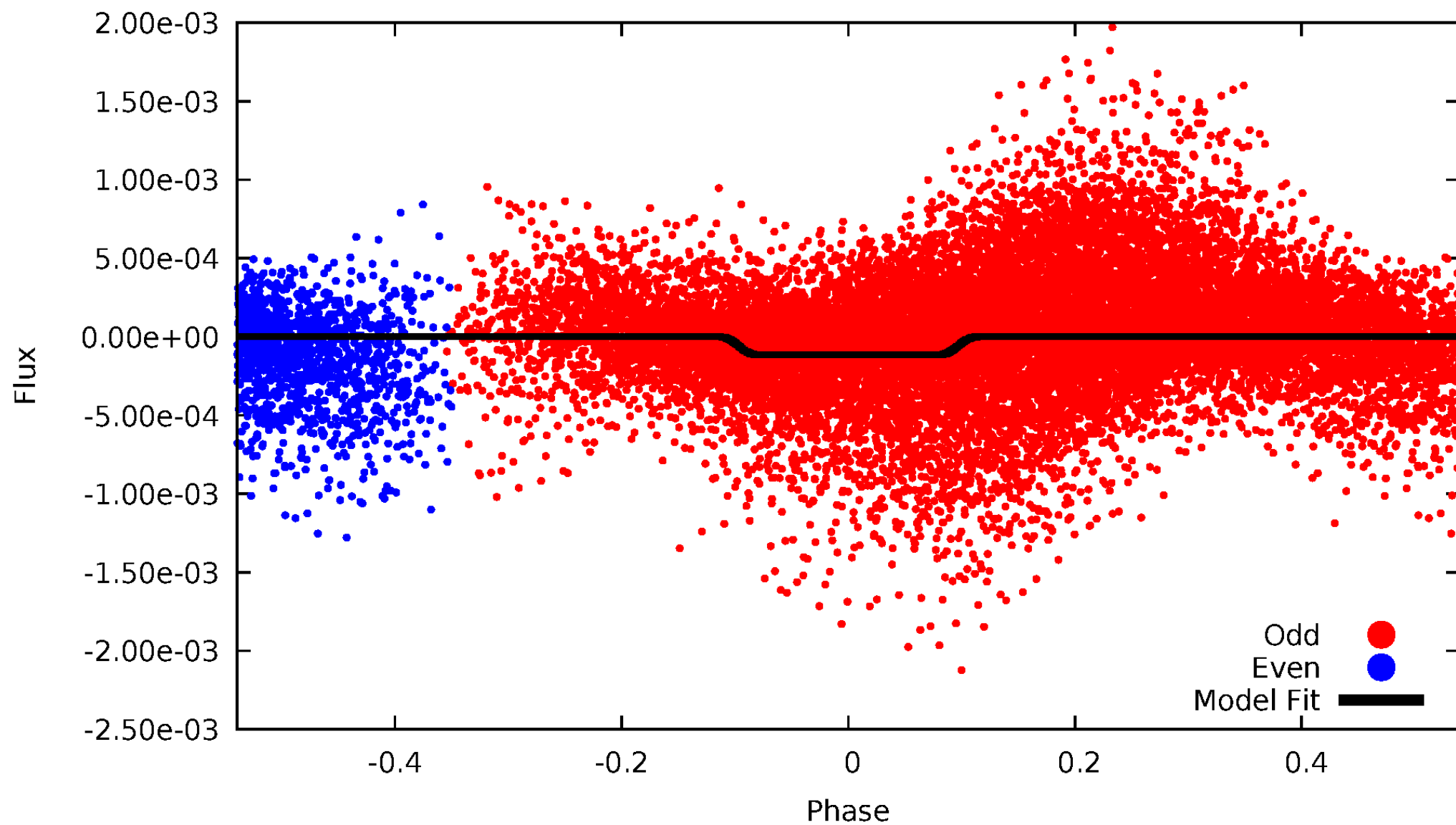
DV Odd/Even

TCE 011967758-02



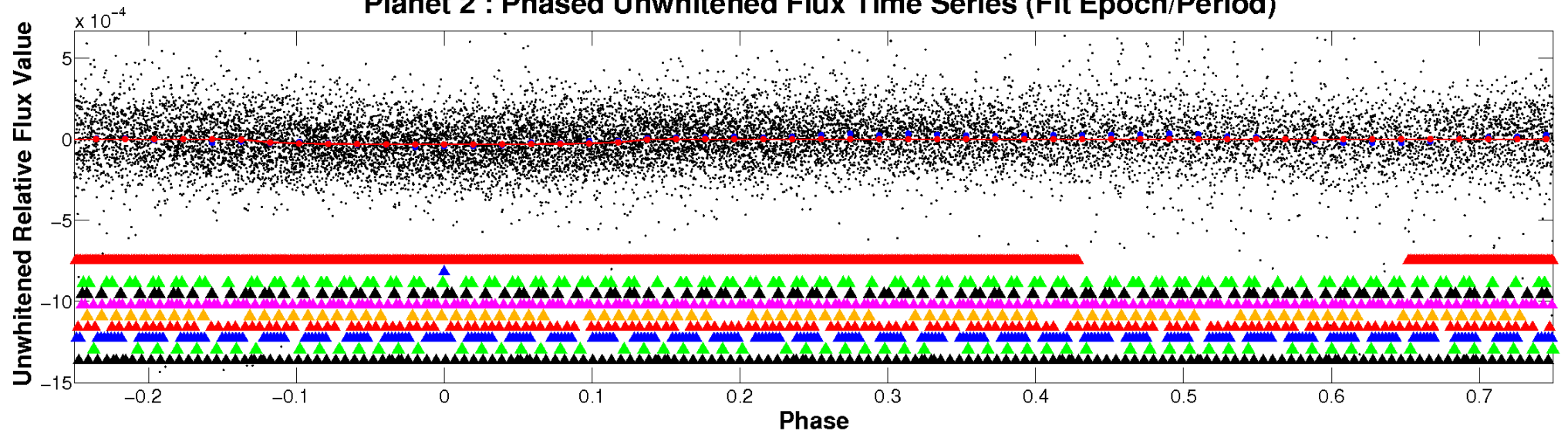
ALT Odd/Even

TCE 011967758-02

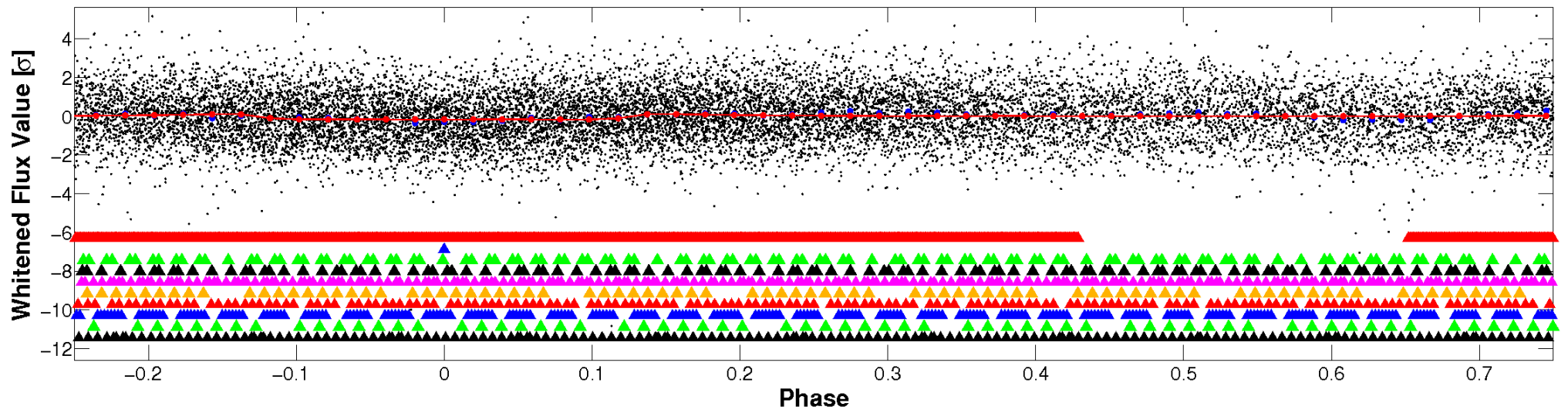


Non-Whitened Vs. Whitened Light Curve

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

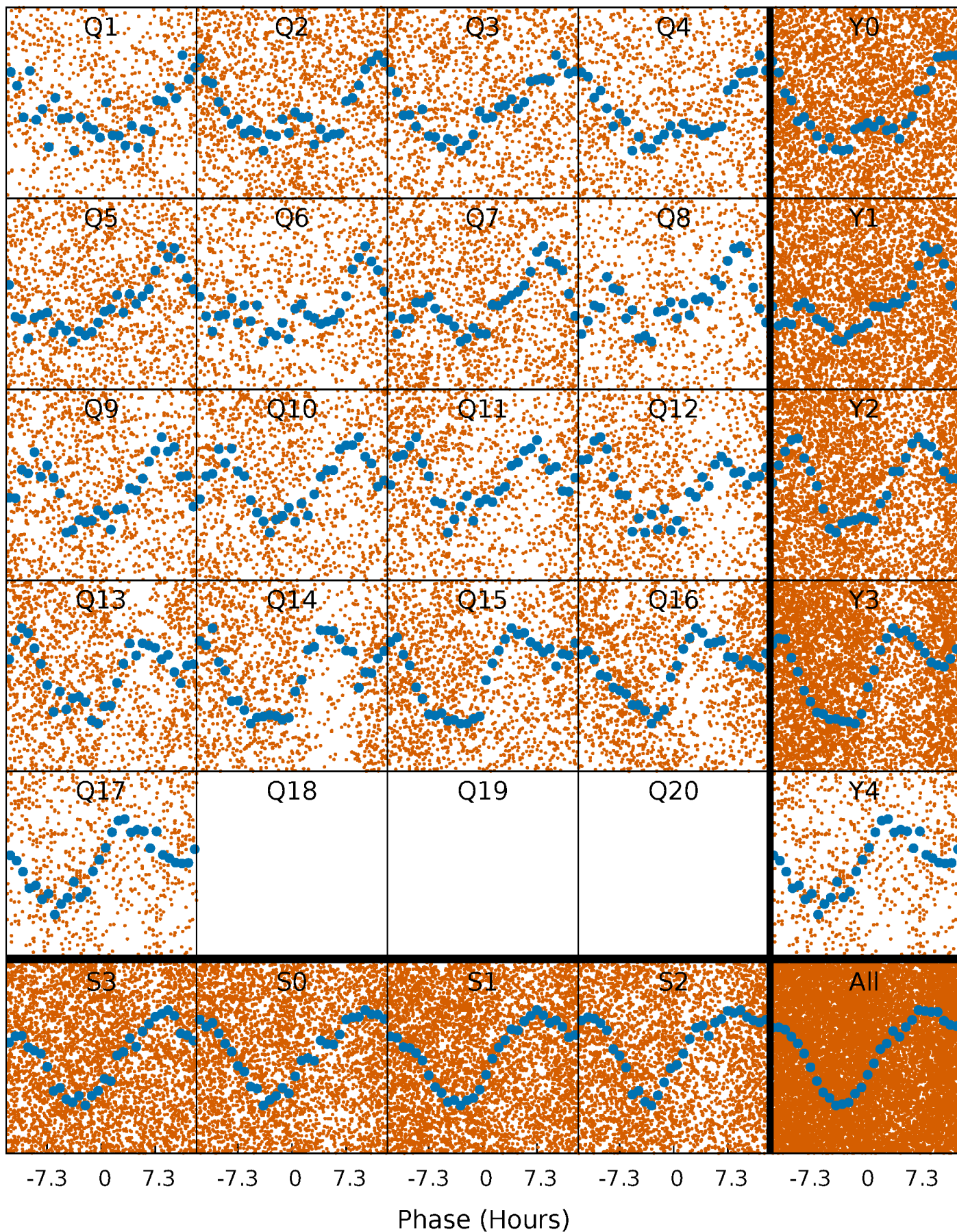


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



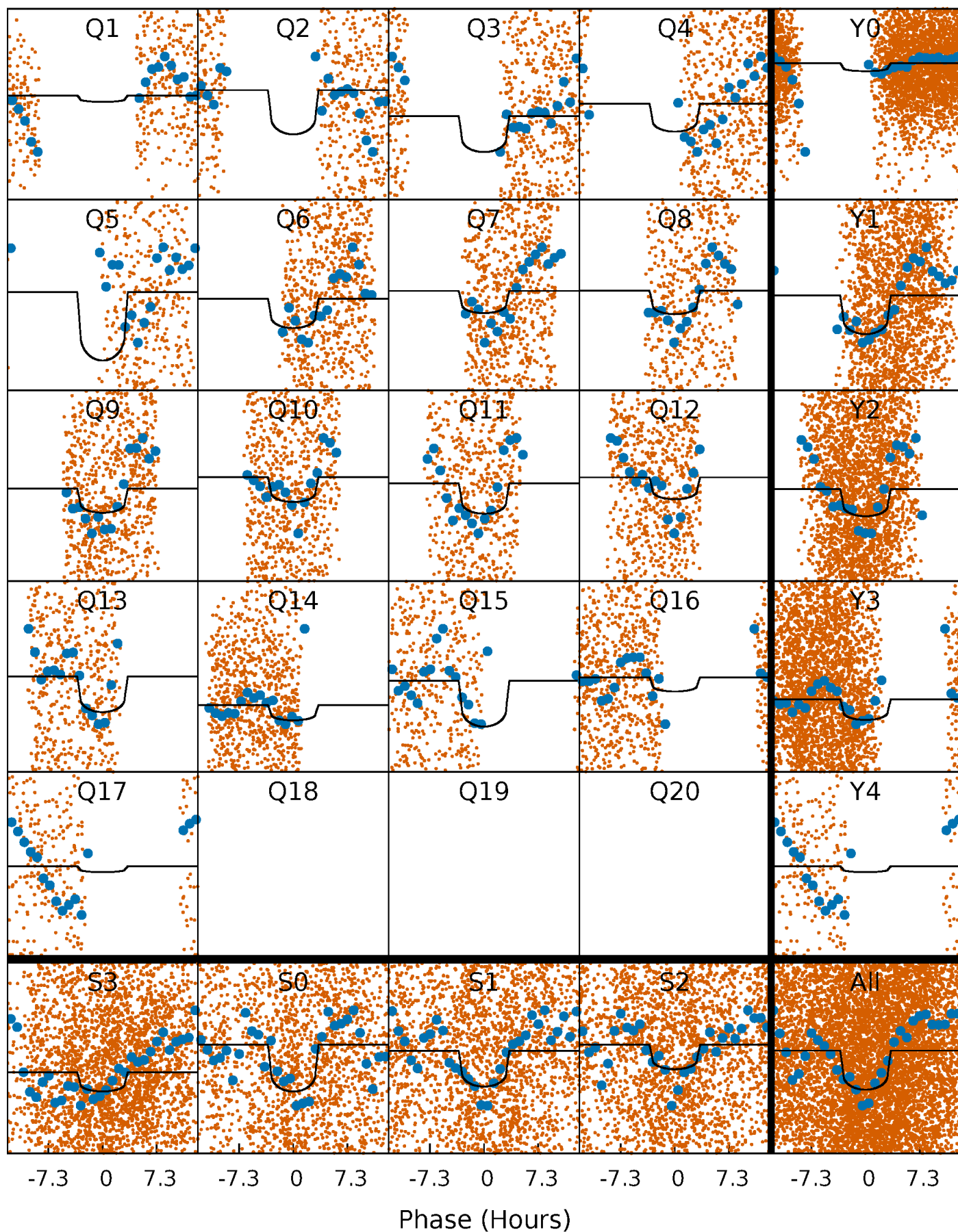
PDC Quarter-Phased Transit Curves

TCE 011967758-02 P= 1.041861 Days $T_0=131.752048$ (BKJD)



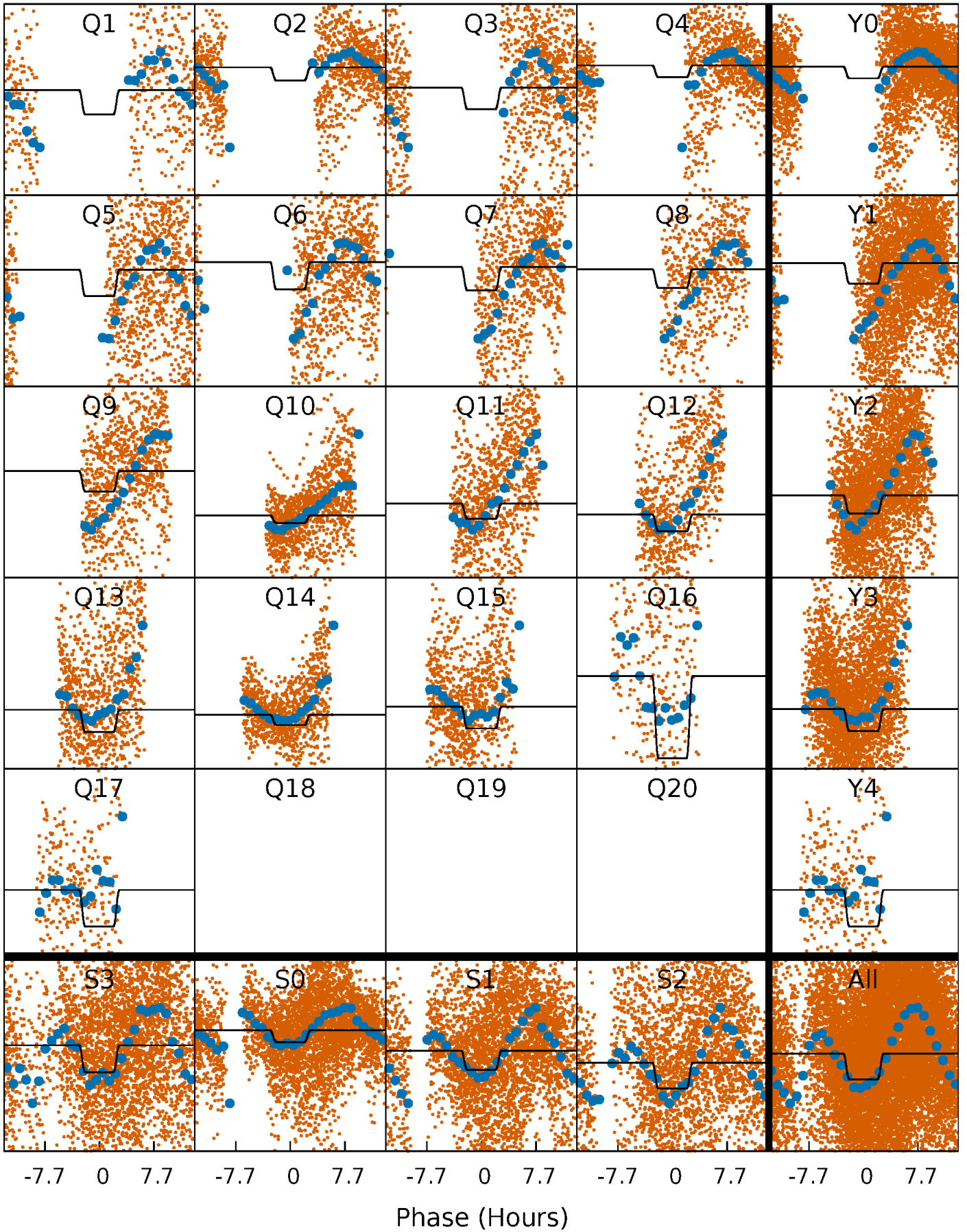
DV Quarter-Phased Transit Curves

TCE 011967758-02 P= 1.041861 Days $T_0=131.752048$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

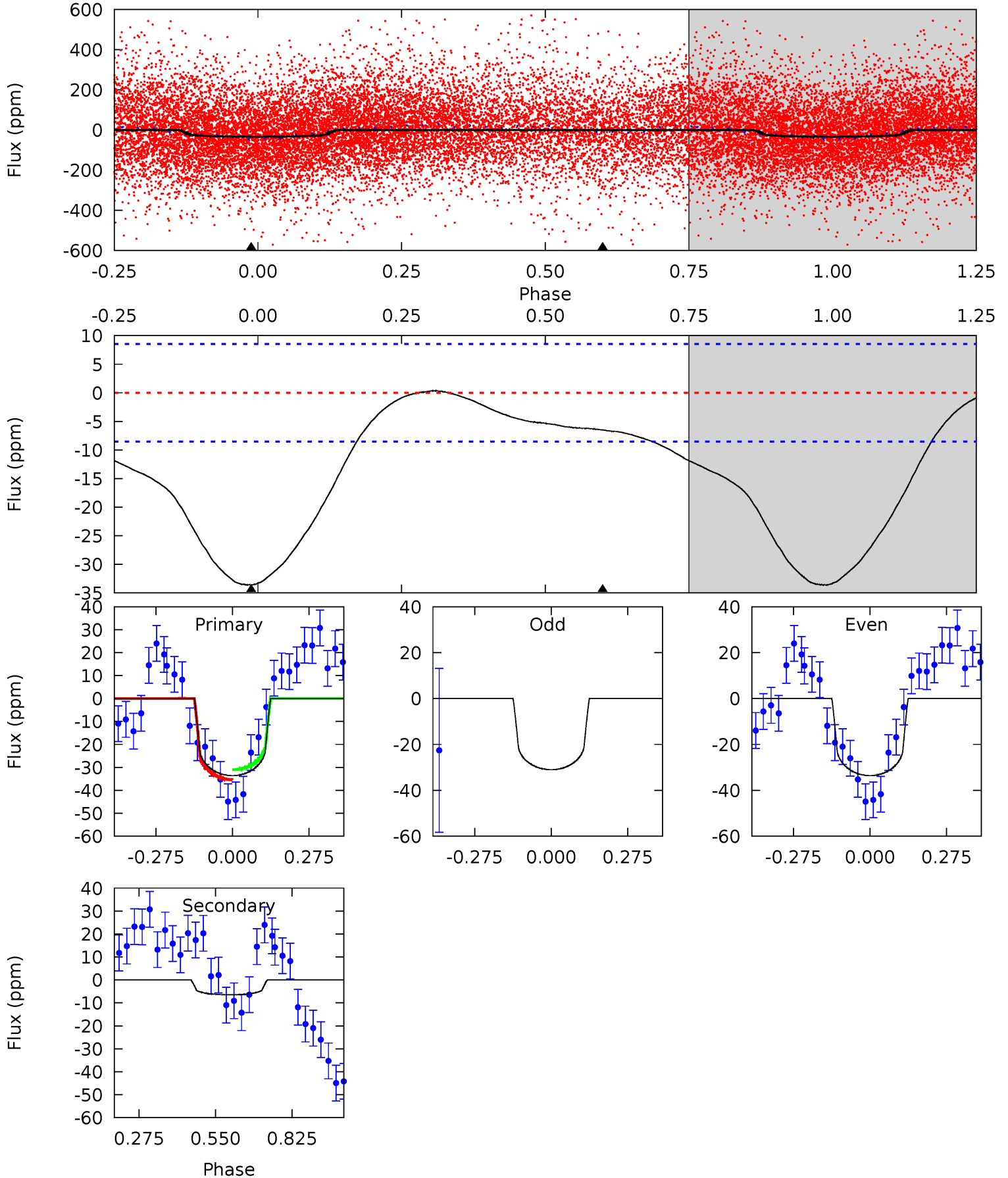
TCE 011967758-02 P= 1.041682 Days $T_0=131.763323$ (BKJD)



DV Model-Shift Uniqueness Test

011967758-02, P = 1.041861 Days, E = 131.752048 Days

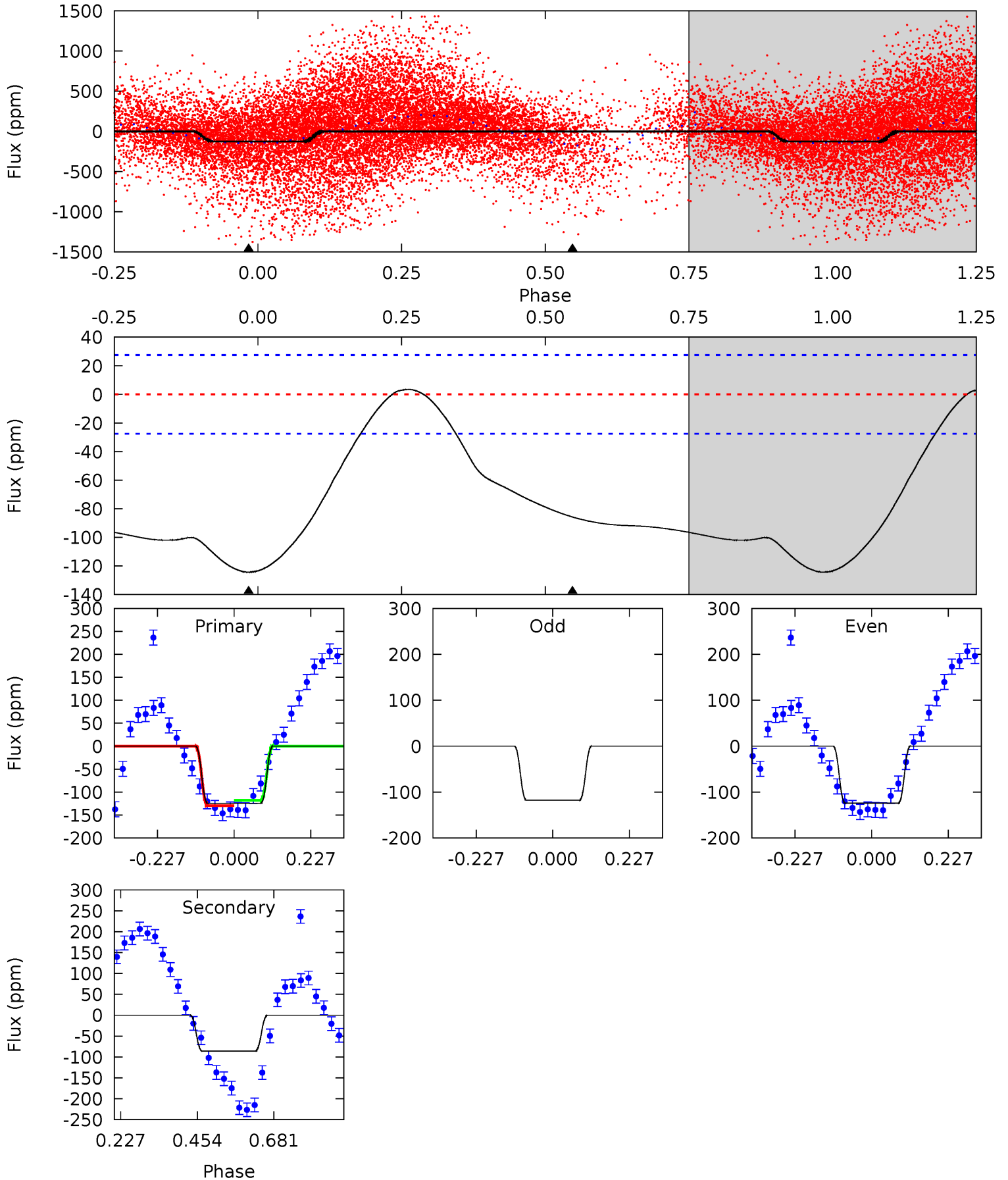
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.1	3.30	0	0	4.35	1.09	0.21	17.1	17.1	3.30	3.30	0.76	1.32	0.01	1.04



Alt Model-Shift Uniqueness Test

011967758-02, P = 1.041682 Days, E = 131.763323 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	13.7	0	0	4.39	1.21	0.72	19.8	19.8	13.7	13.7	0.60	1.75	0.03	1.11



Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-6 ± 2	$2.17^{+1.19}_{-1.02}$	5235^{+254}_{-447}	3902^{+2218}_{-7634}	$0.468^{+1.438}_{-0.275}$
Alt.	-86 ± 6	$4.10^{+1.30}_{-1.19}$	5224^{+270}_{-431}	6307^{+1240}_{-863}	$1.818^{+1.803}_{-0.735}$

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 $A_{obs} \gg 1.0$

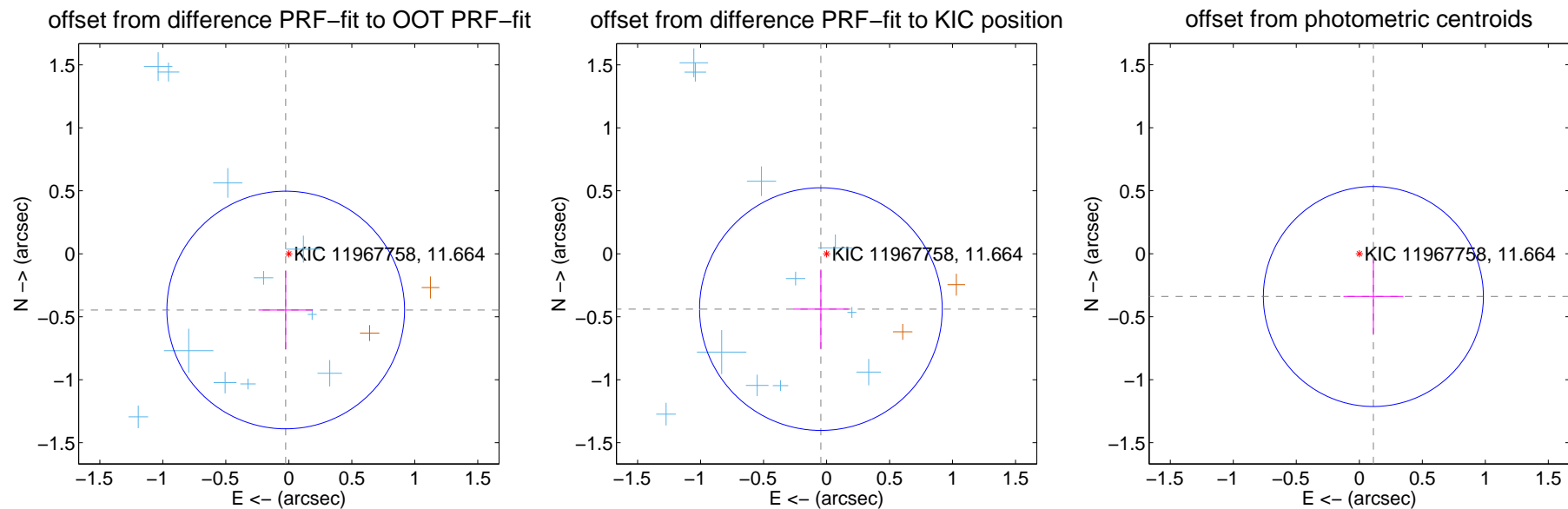
DV Centroid Data

Supplemental centroid analysis for 011967758-02. **Kepler magnitude: 11.66.** Transit SNR 11.97

There are 12 quarters with good PRF difference image offsets

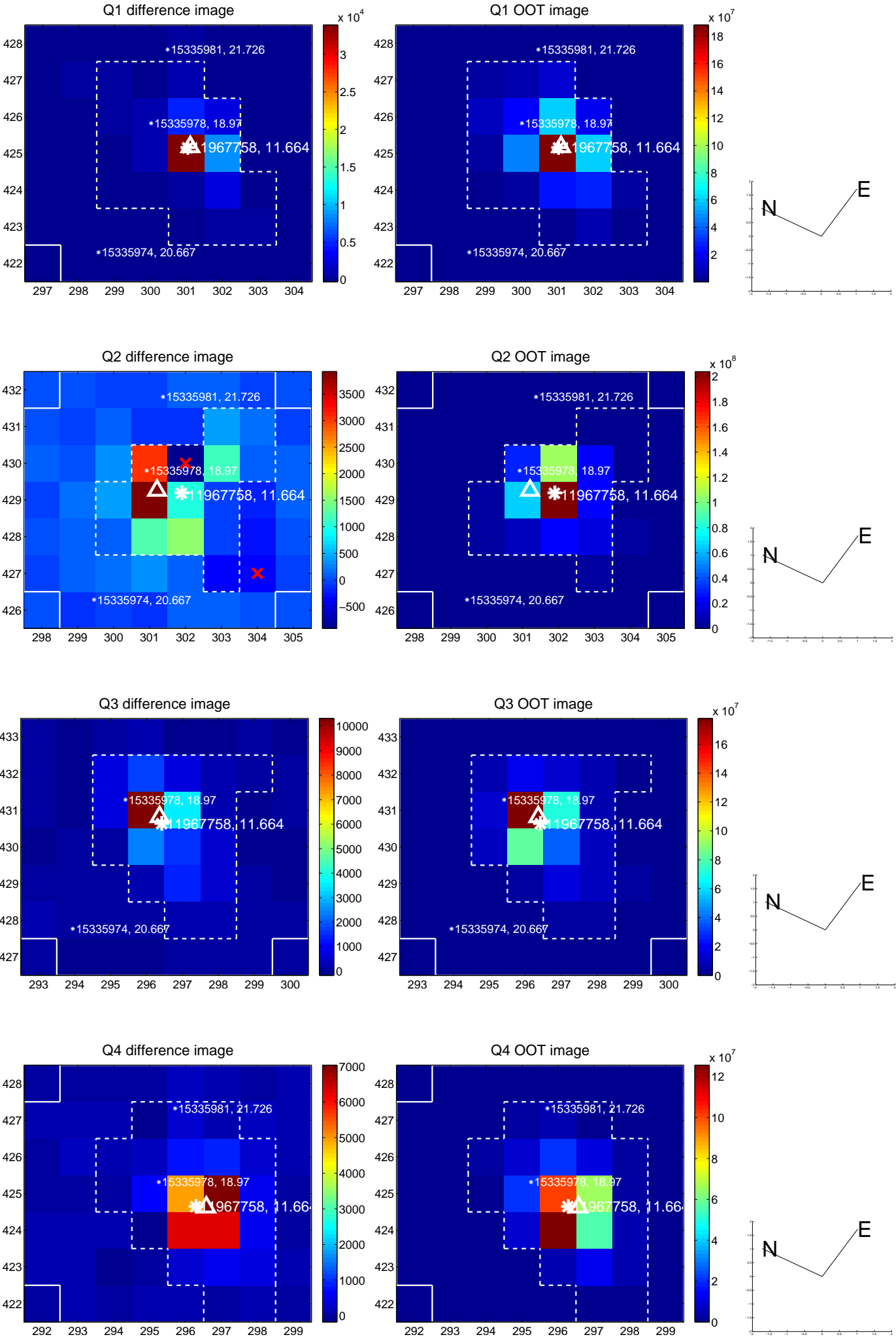
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.447 ± 0.314	1.42	0.025 ± 0.216	-0.446 ± 0.312
PRF-fit source offset from KIC position	0.442 ± 0.321	1.38	0.045 ± 0.219	-0.439 ± 0.314
photometric centroid source offset	0.36 ± 0.29	1.23	-0.11 ± 0.24	-0.34 ± 0.30

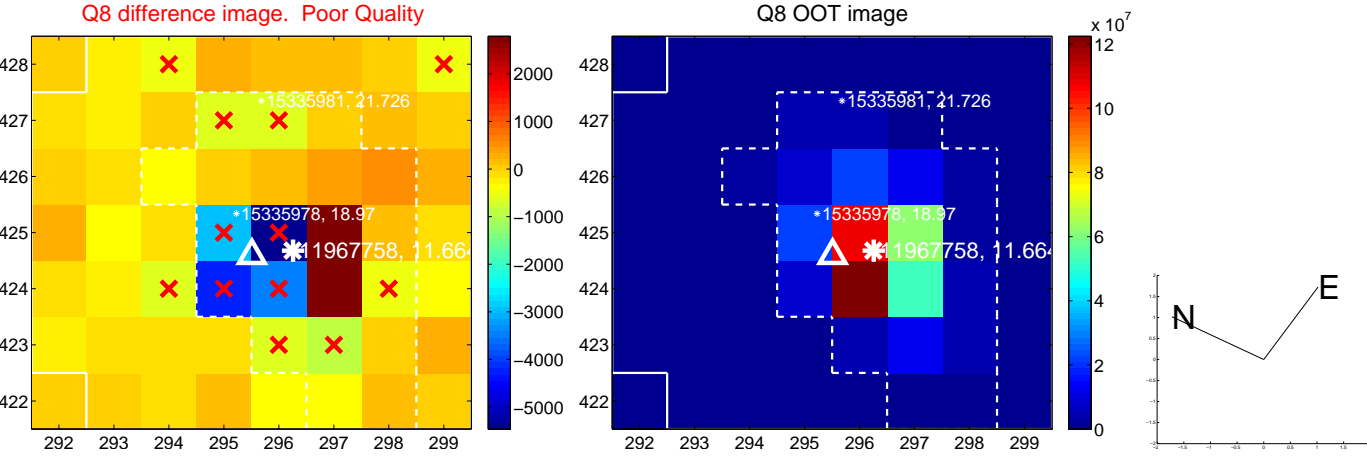
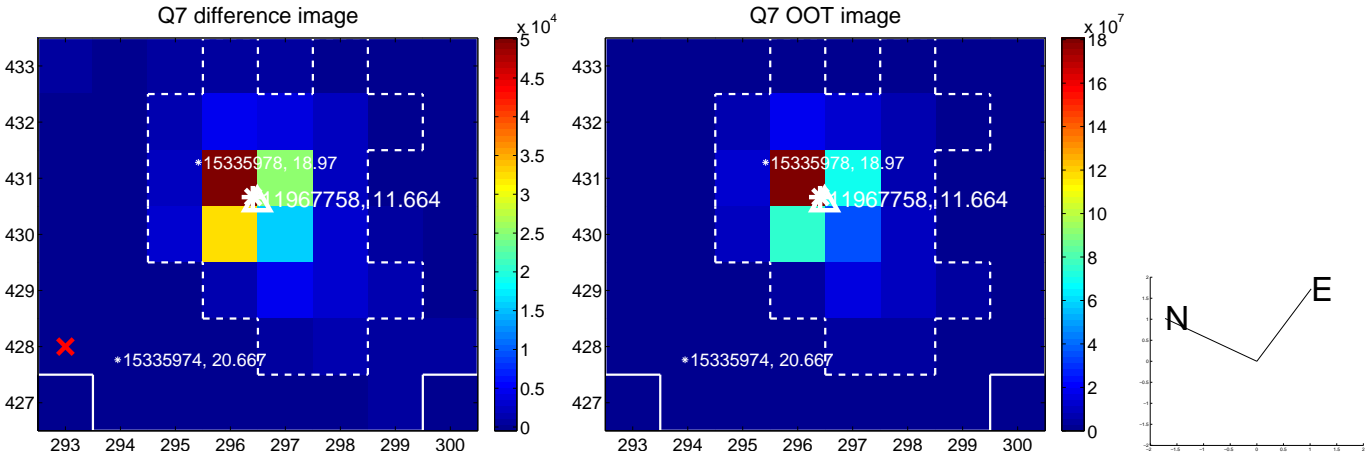
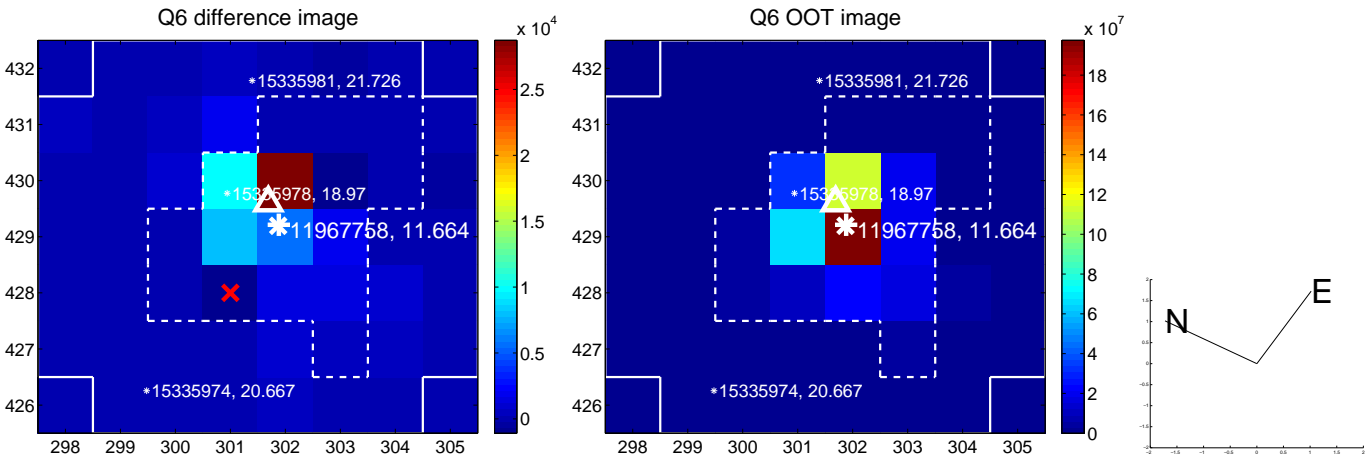
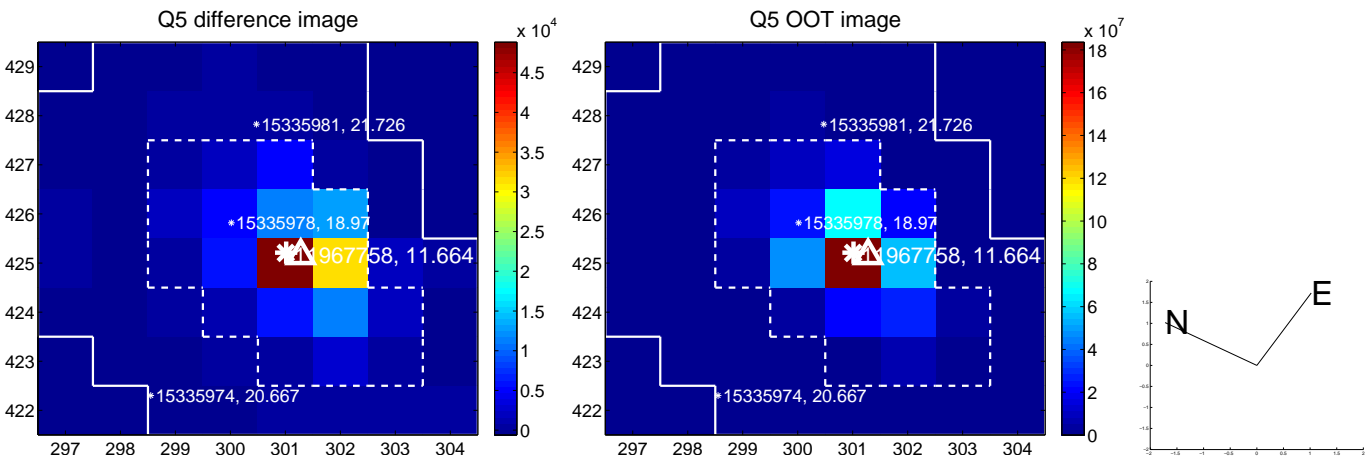


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

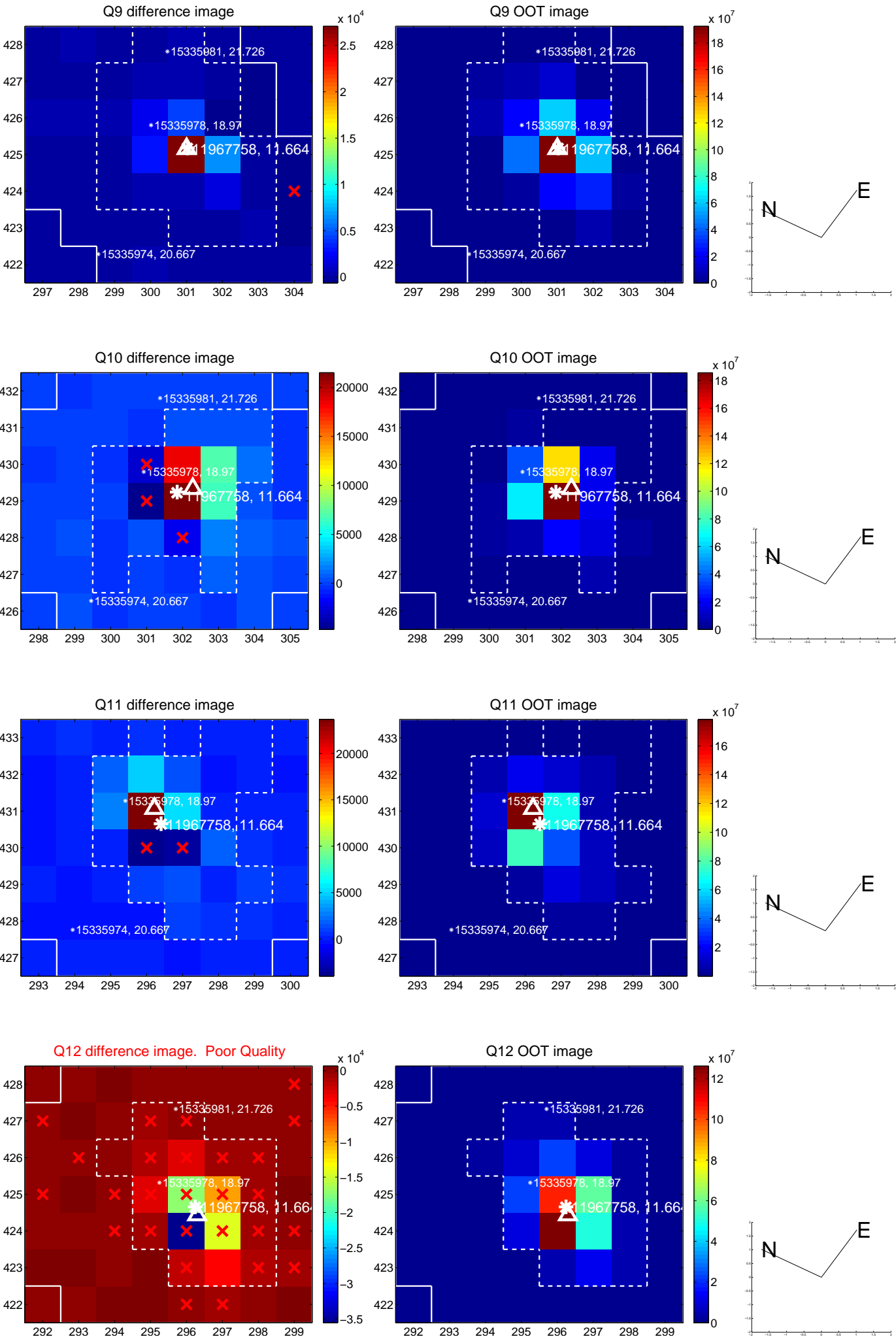
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



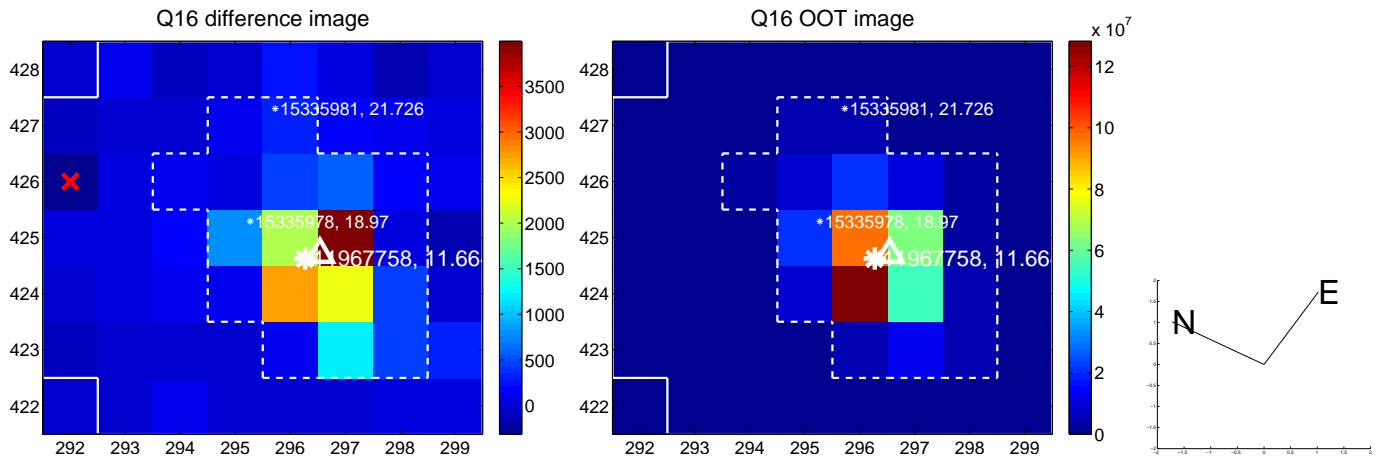
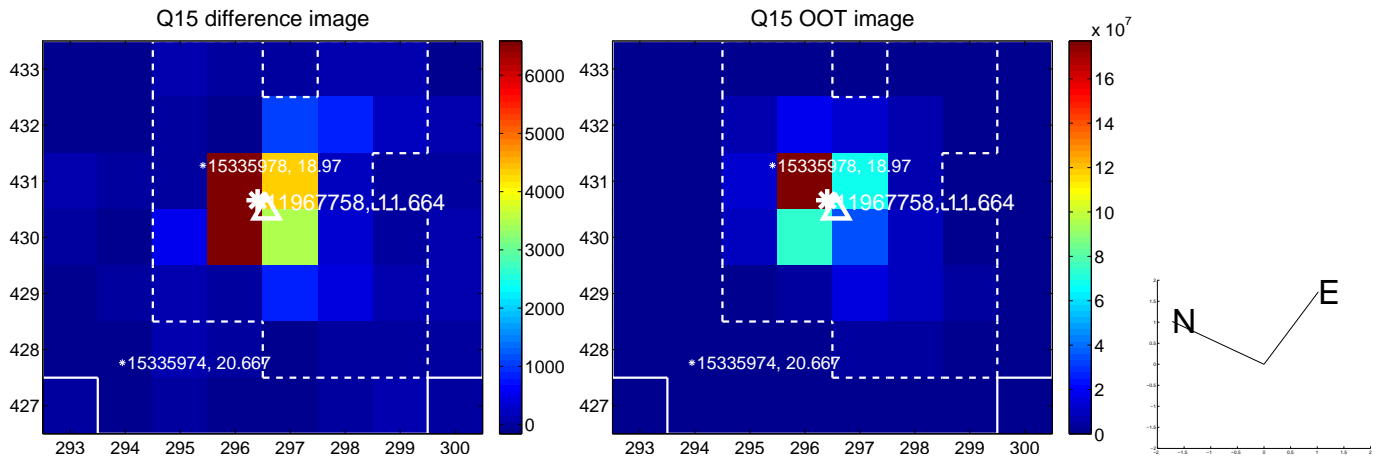
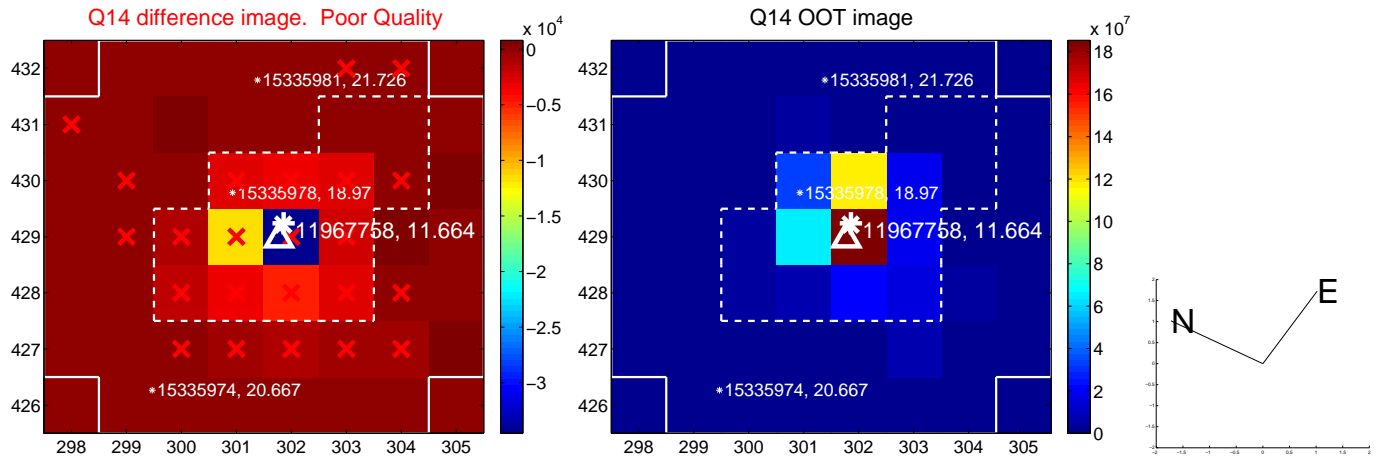
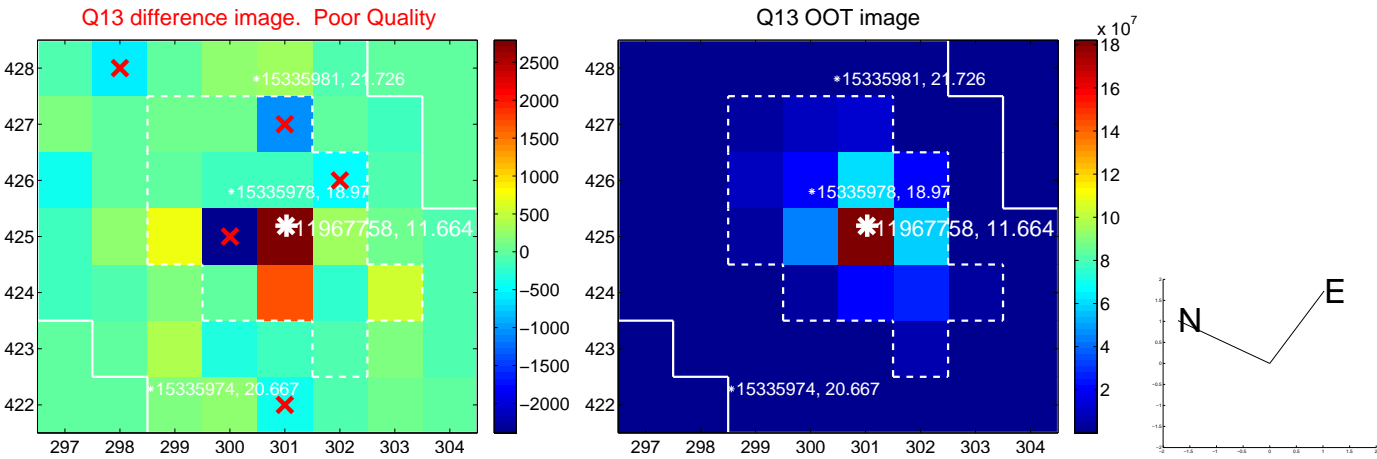
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



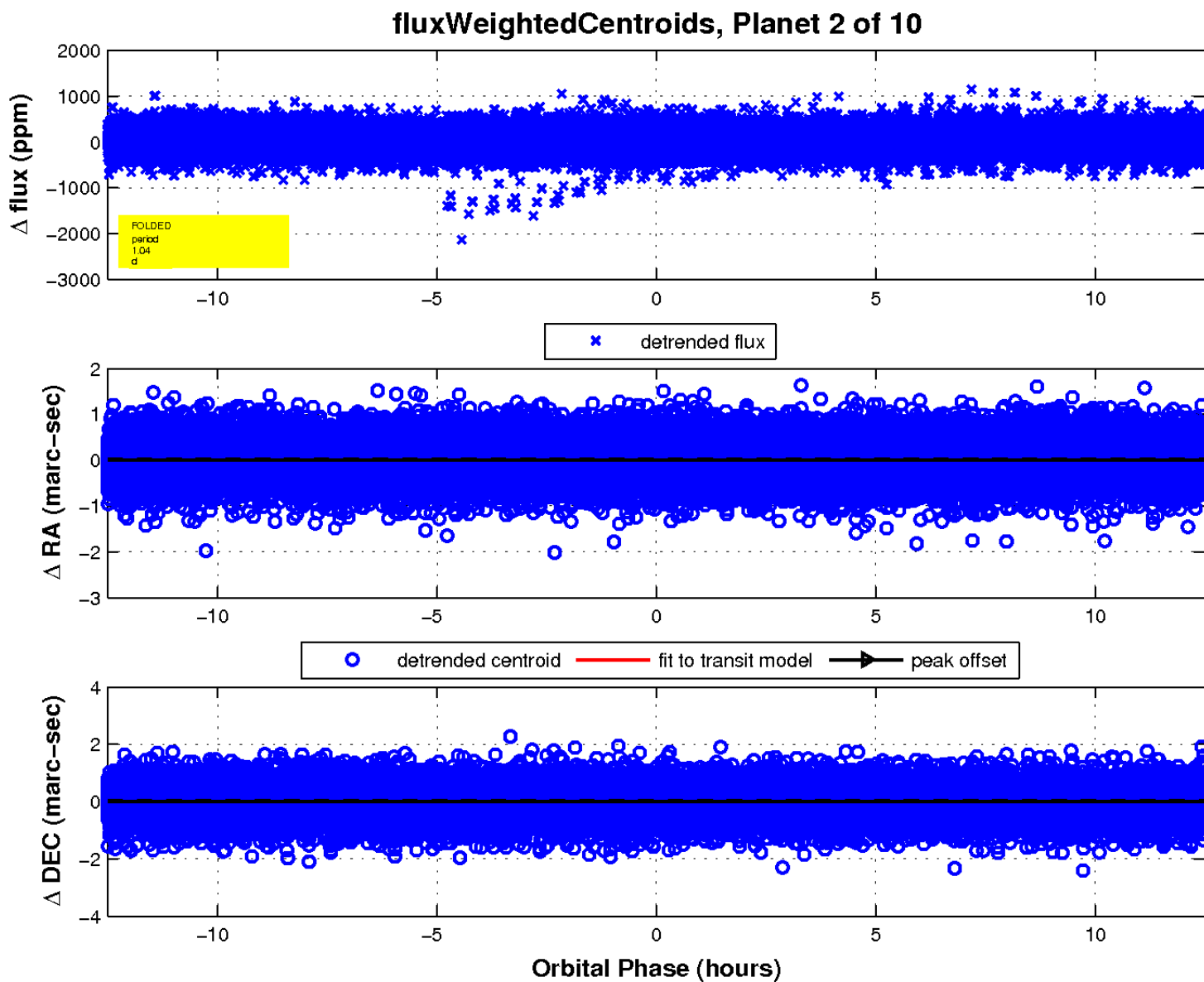
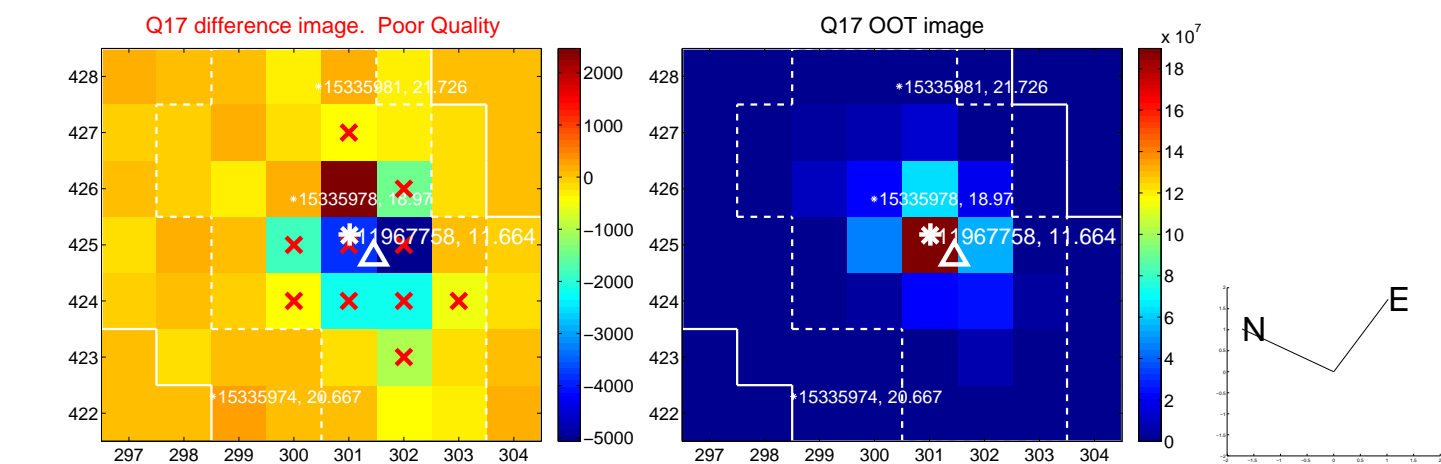
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

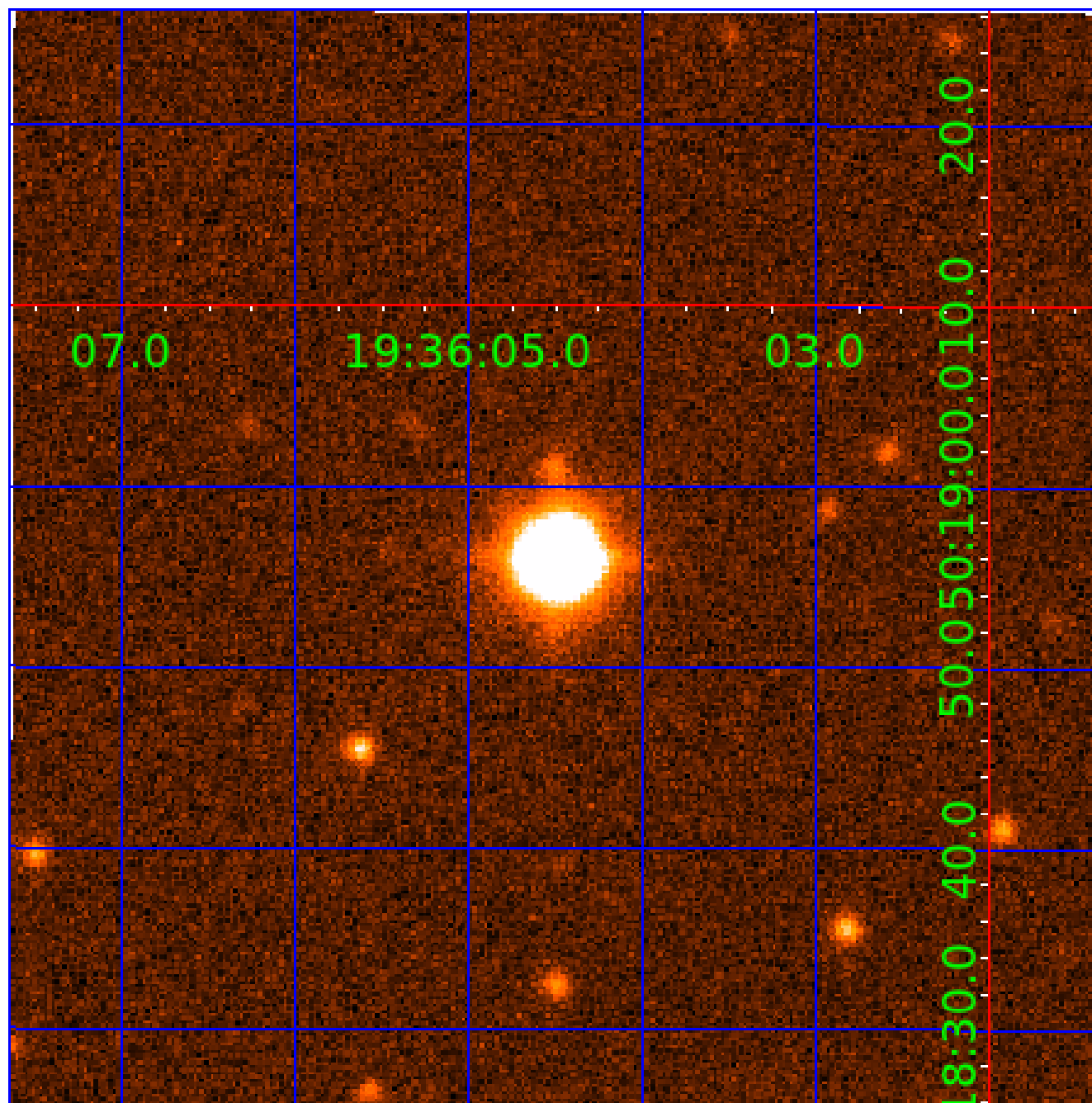


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

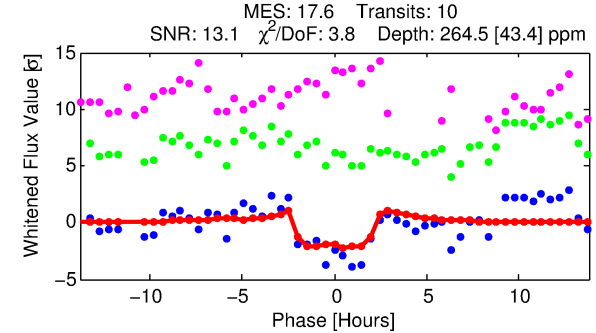
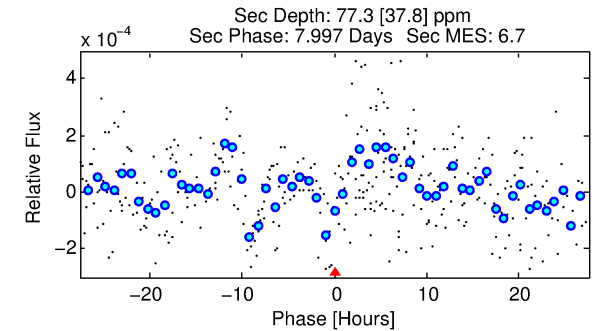
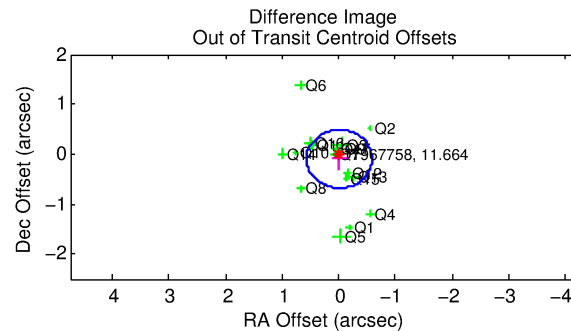
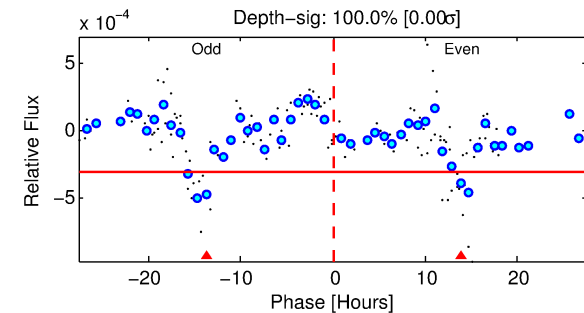
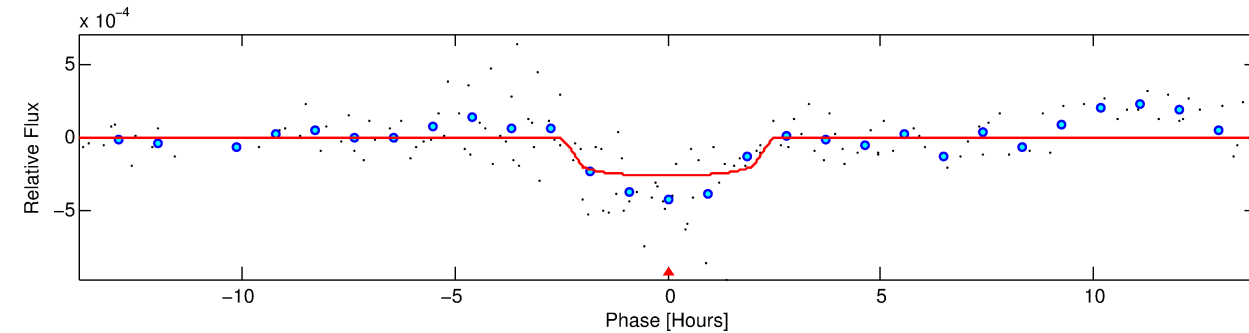
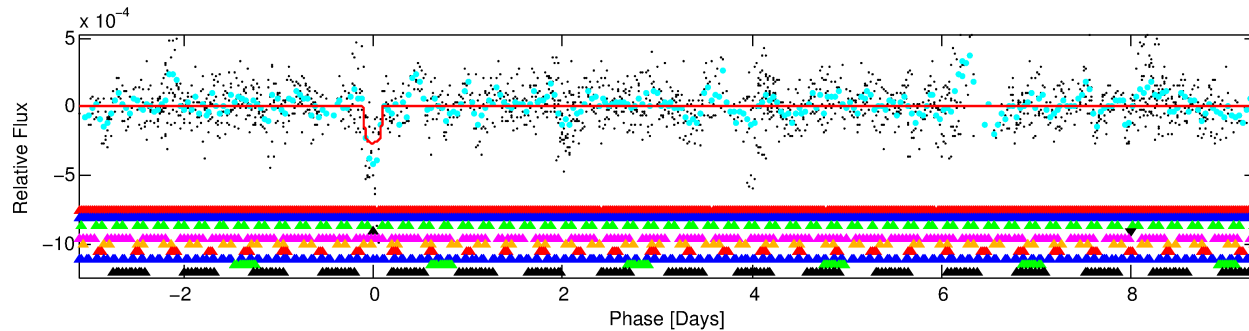
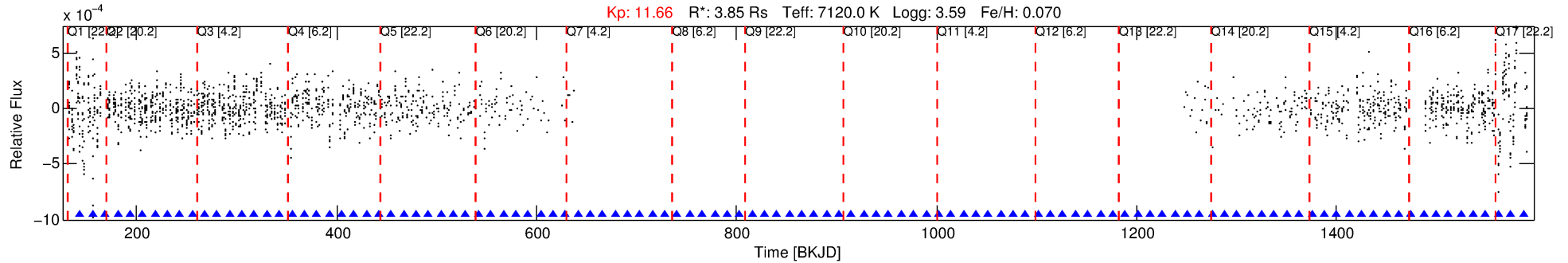
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-04

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 4 of 10 Period: 12.438 d



DV Fit Results:

Period = 12.43806 [0.00010] d
Epoch = 143.8439 [0.0067] BKJD
Rp/R* = 0.0155 [0.0163]
a/R* = 17.93 [108.98]
b = 0.53 [8.46]
Seff = 1881.74 [1046.39]
Teq = 1679 [233] K
Rp = 6.51 [7.24] Re
a = 0.1346 [0.0460] AU
Ag = 18.18 [40.46] [0.42 σ]
Teffp = 5362 [2899] K [1.27 σ]

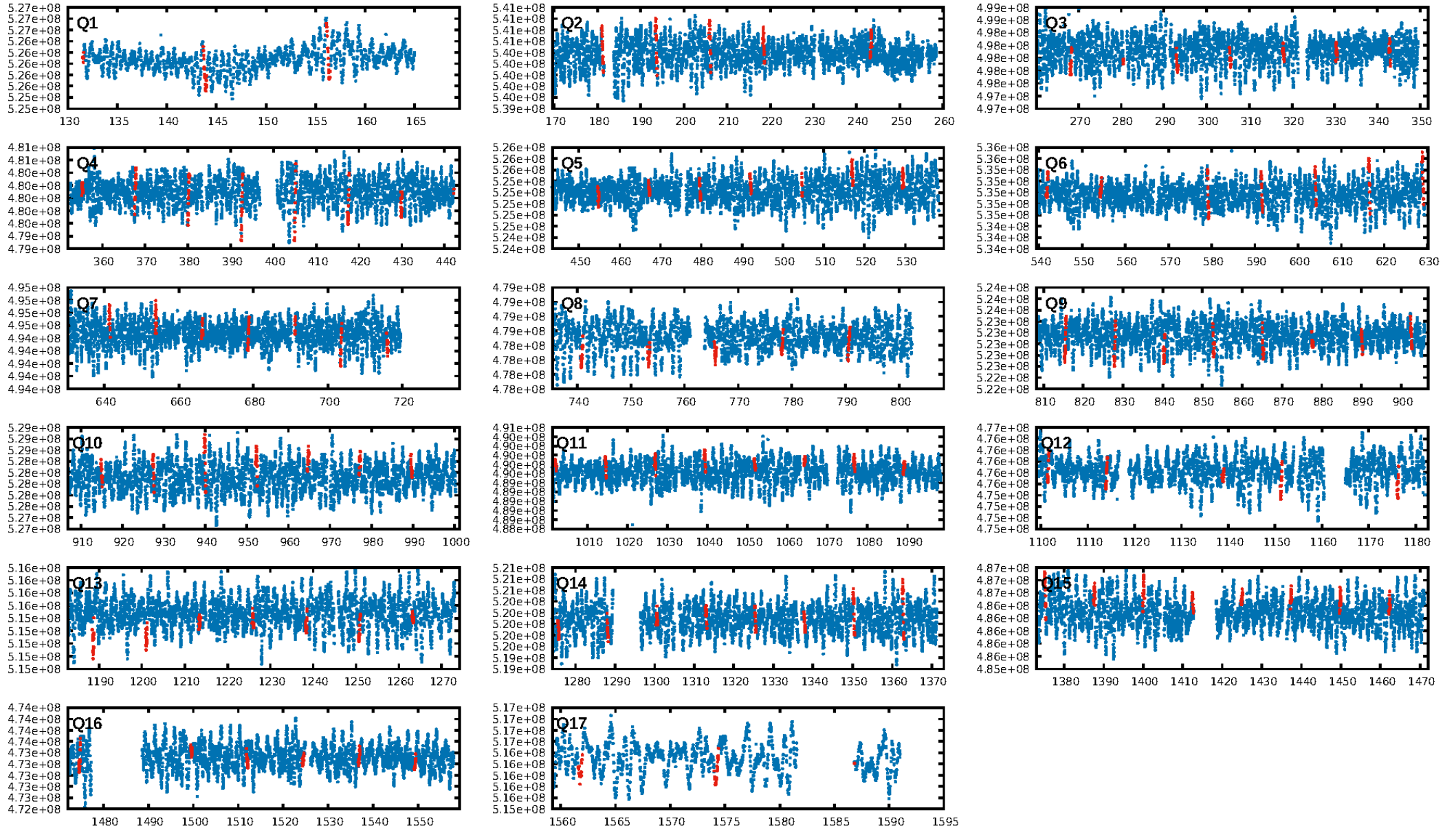
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [17.29 σ]
LongPeriod-sig: 35.8% [0.47 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 72.2%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 0.3848
Centroid-sig: 21.2%
Centroid-so: 0.225 arcsec [1.50 σ]
OotOffset-rm: 0.097 arcsec [0.50 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.097 arcsec [0.50 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

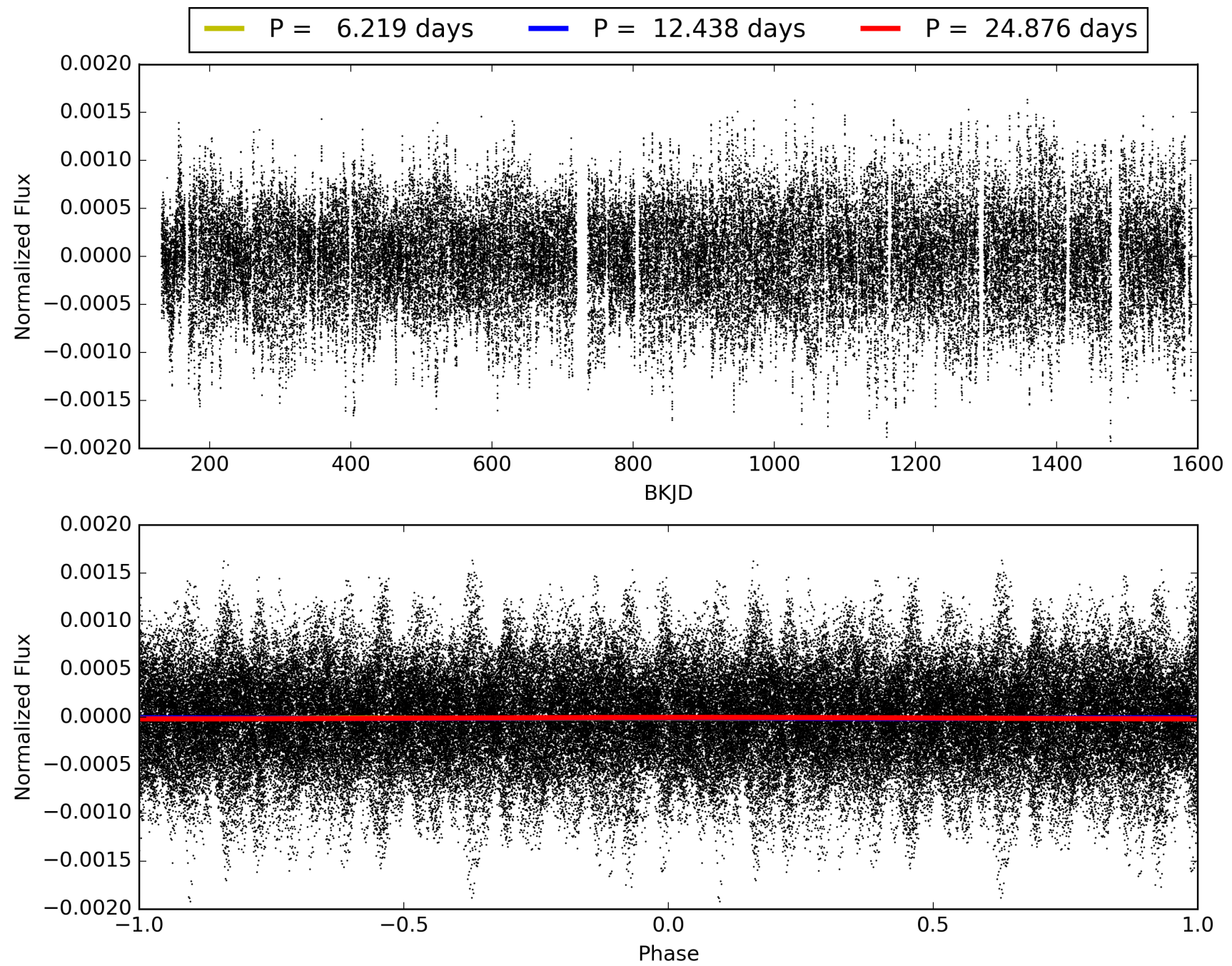
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:15:22 Z

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

TCE 011967758-04, PDC Light Curves

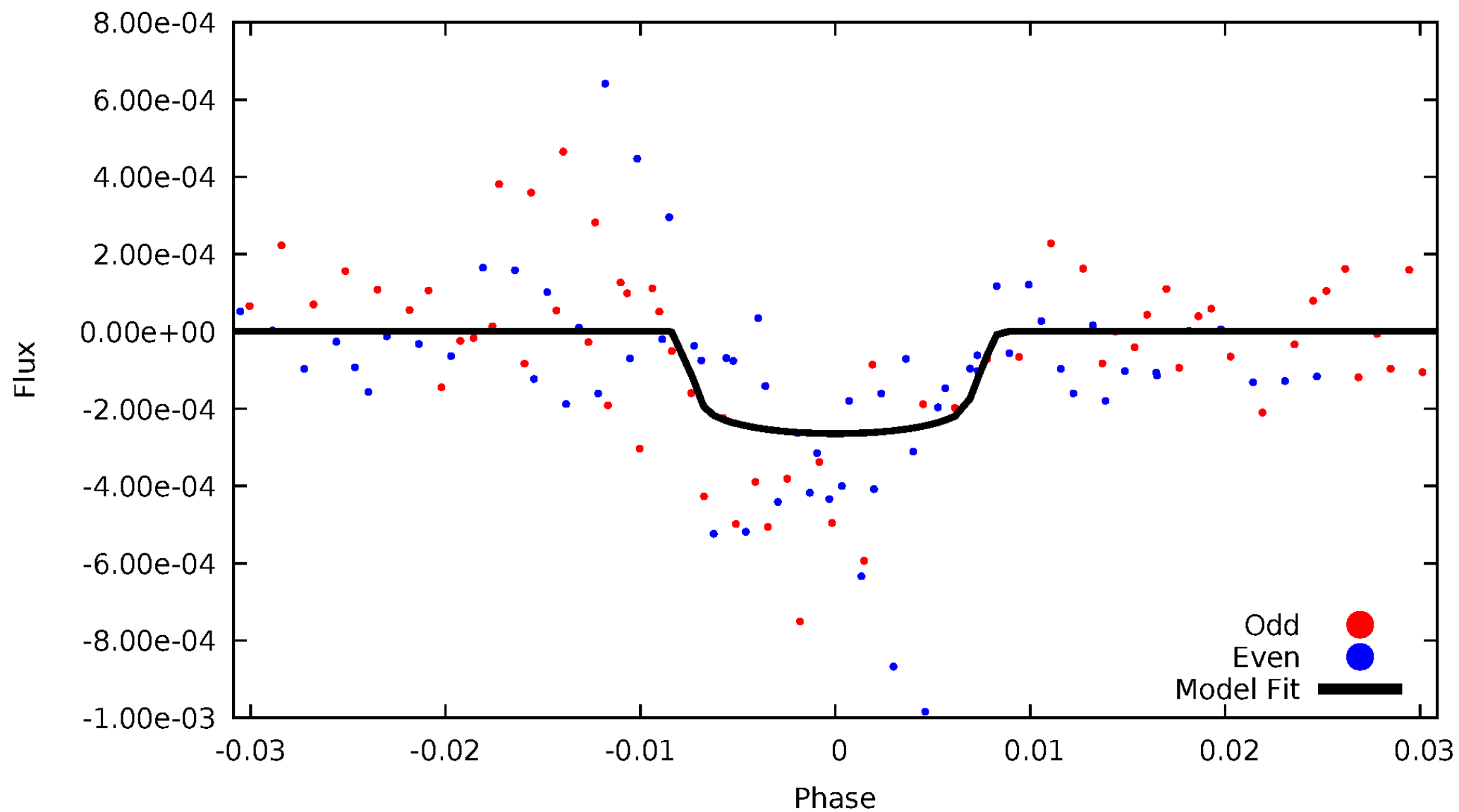


TCE 011967758-04



DV Odd/Even

TCE 011967758-04

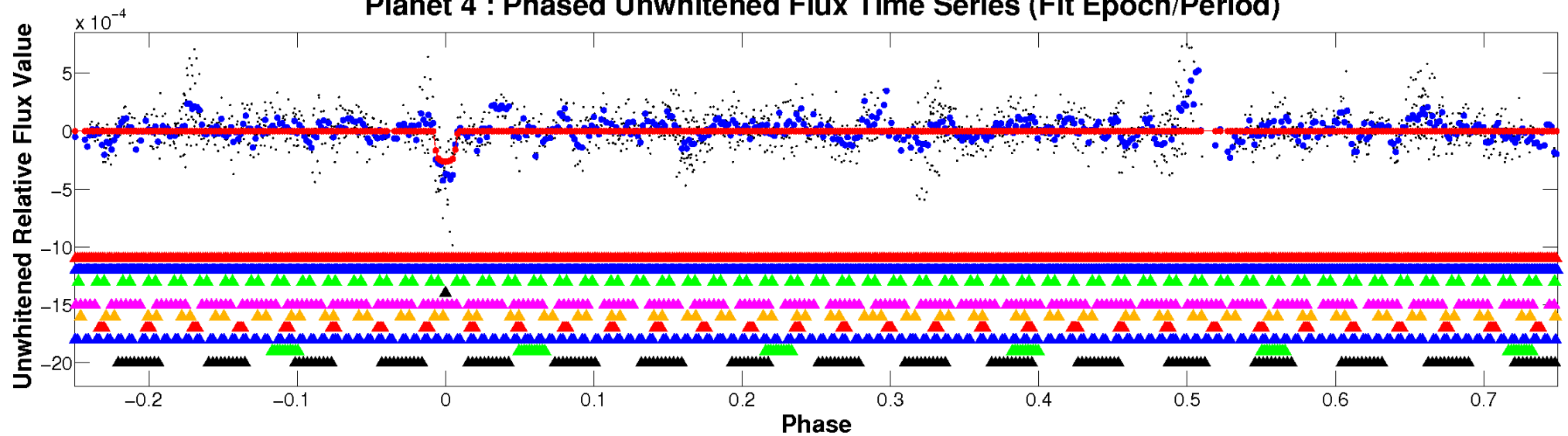


ALT Odd/Even

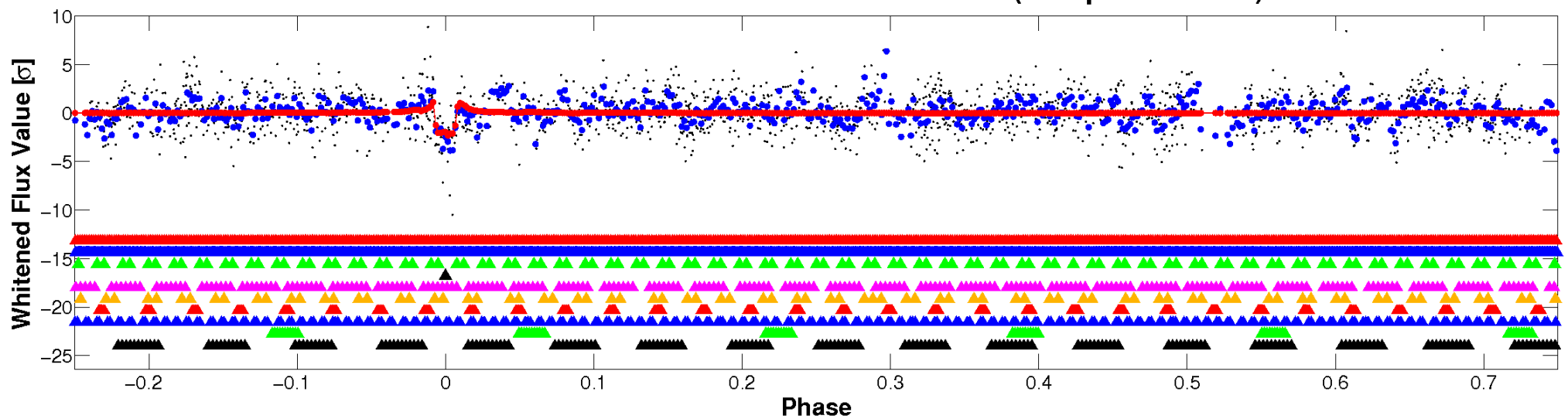
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

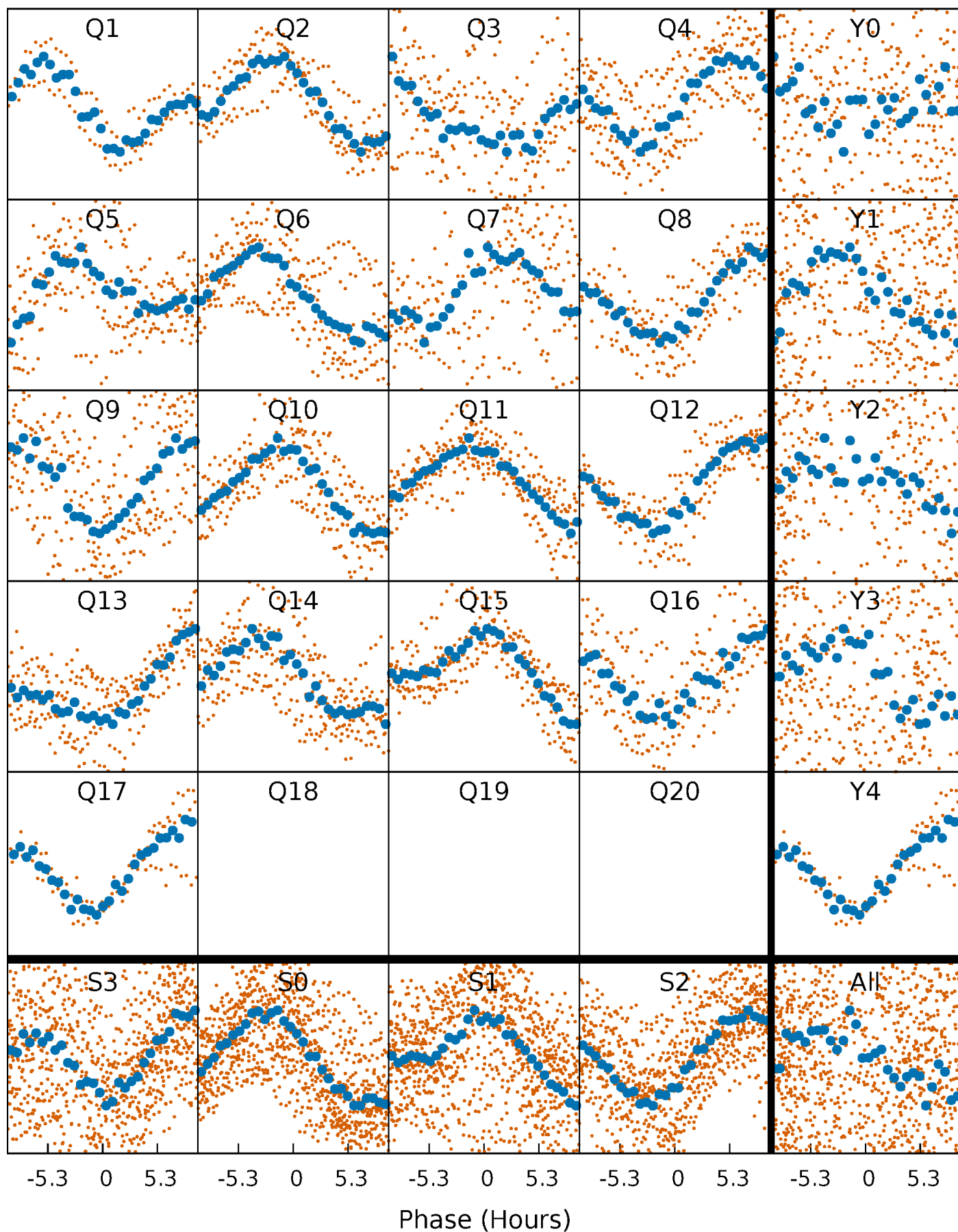


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



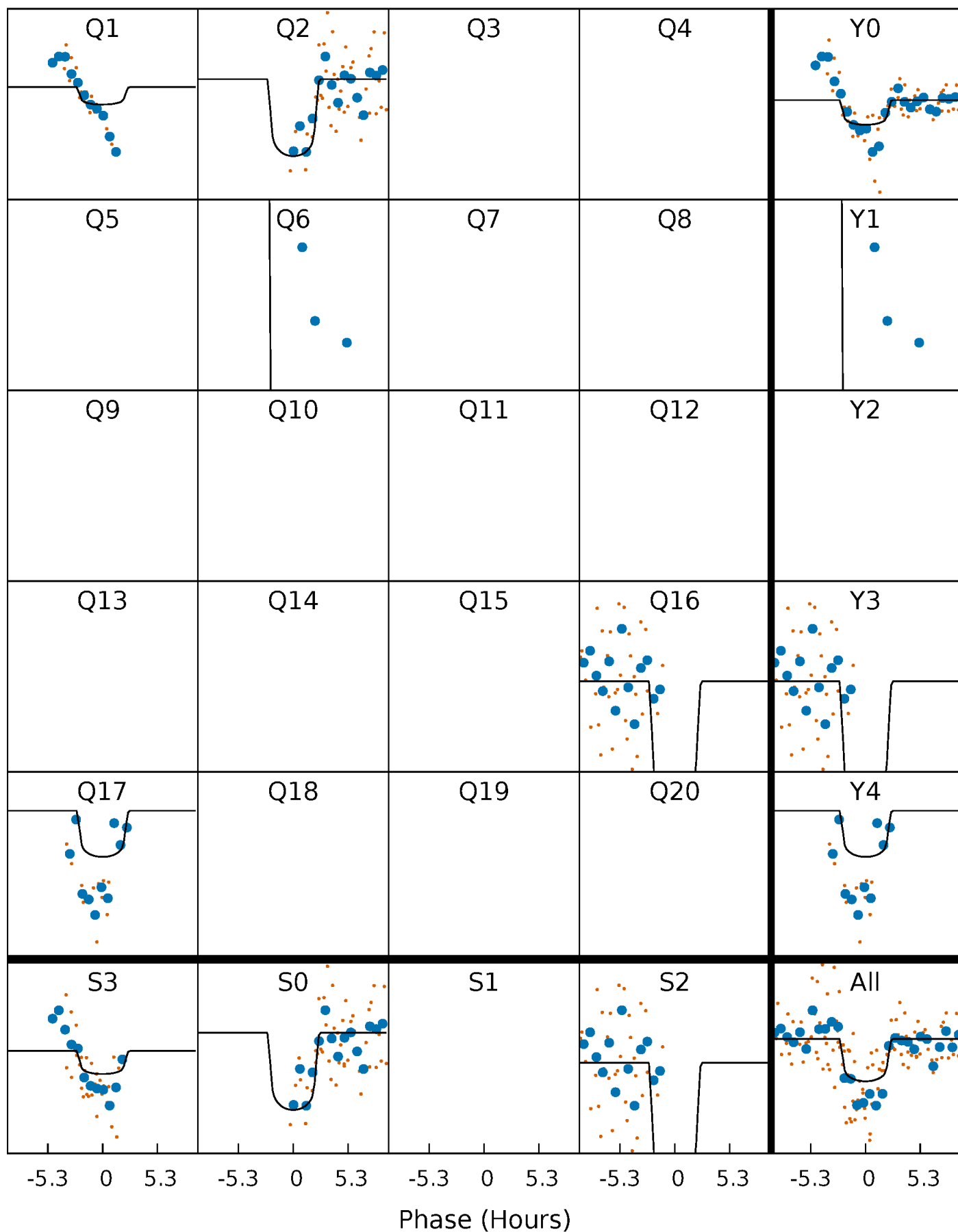
PDC Quarter-Phased Transit Curves

TCE 011967758-04 P= 12.438057 Days $T_0=143.843872$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-04 P= 12.438057 Days $T_0=143.843872$ (BKJD)

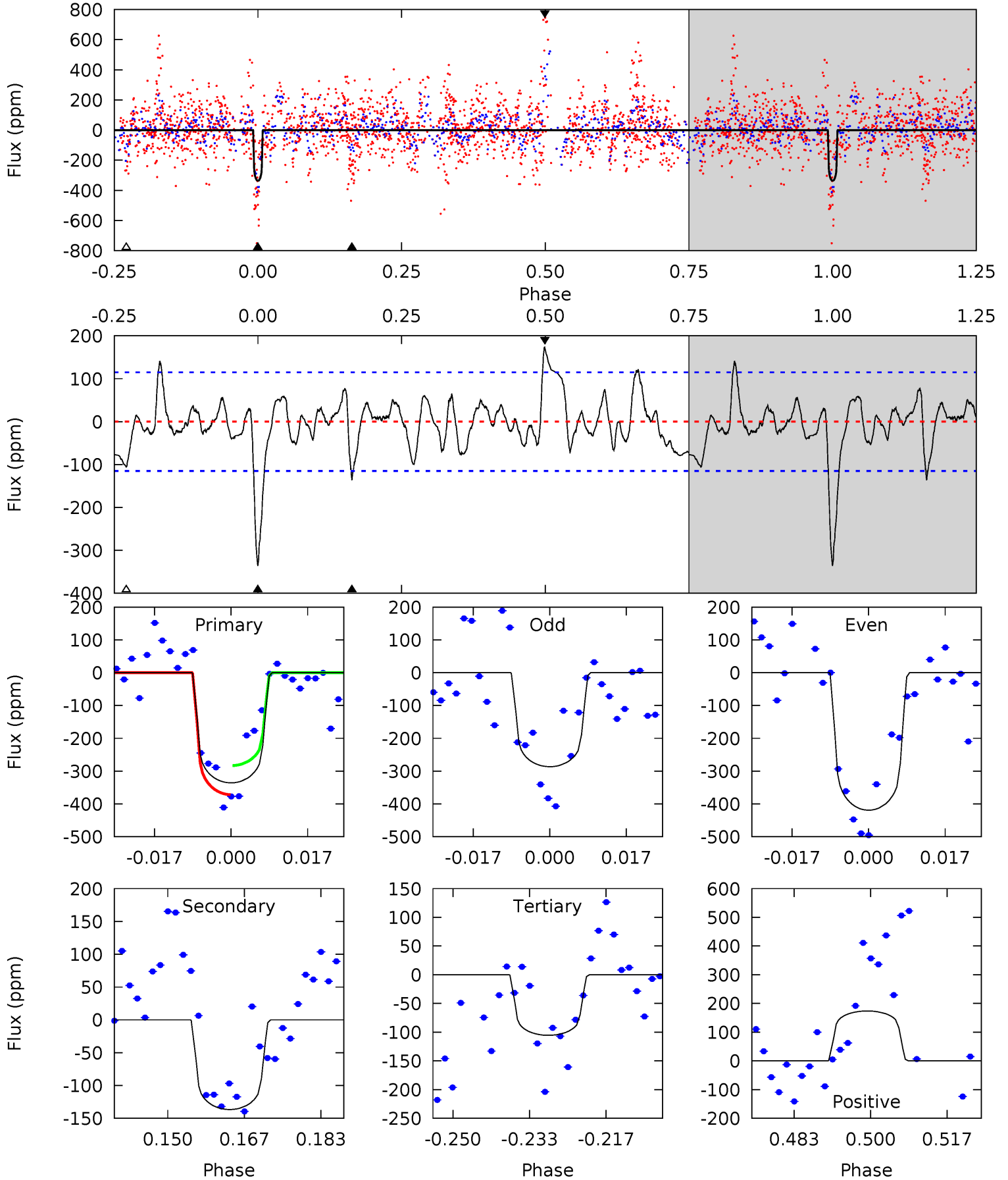


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-04, P = 12.438057 Days, E = 131.405815 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.4	5.85	4.52	7.44	4.93	2.39	2.01	9.87	6.94	1.33	-1.59	2.70	0.91	0.34	1.97



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-137 ± 23	$7.05^{+6.32}_{-4.24}$	2286^{+107}_{-207}	5579^{+3626}_{-1284}	26^{+143}_{-19}
Alt.	N/A	N/A	N/A	N/A	N/A

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

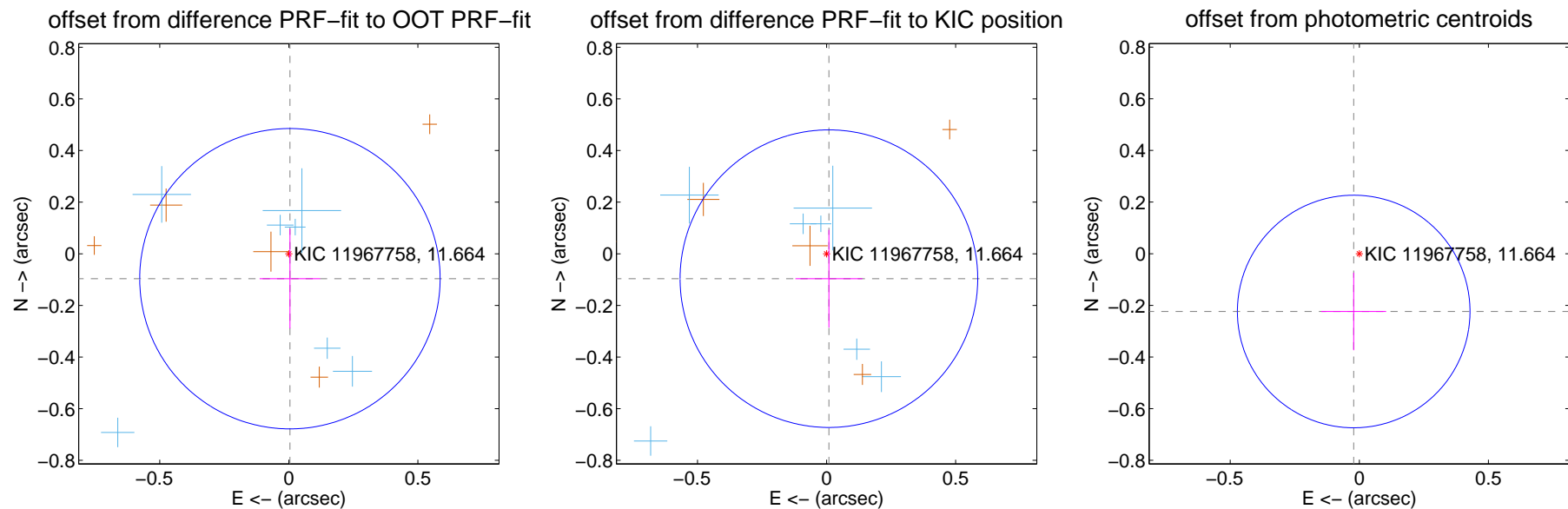
DV Centroid Data

Supplemental centroid analysis for 011967758-04. **Kepler magnitude: 11.66.** Transit SNR 13.06

There are 9 quarters with good PRF difference image offsets

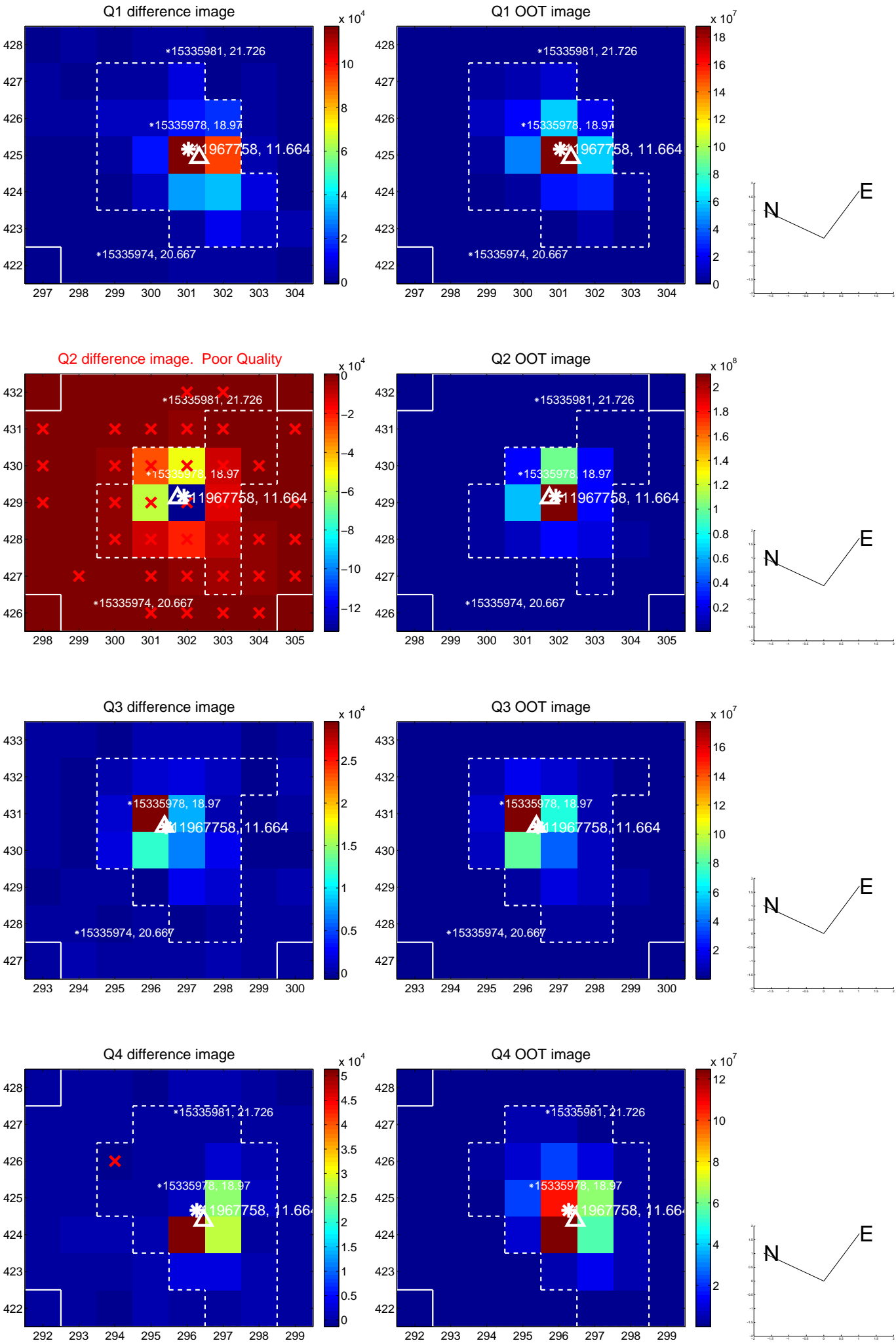
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.097 ± 0.194	0.50	-0.004 ± 0.117	-0.097 ± 0.193
PRF-fit source offset from KIC position	0.097 ± 0.192	0.50	-0.009 ± 0.130	-0.096 ± 0.189
photometric centroid source offset	0.22 ± 0.15	1.50	0.02 ± 0.13	-0.22 ± 0.15

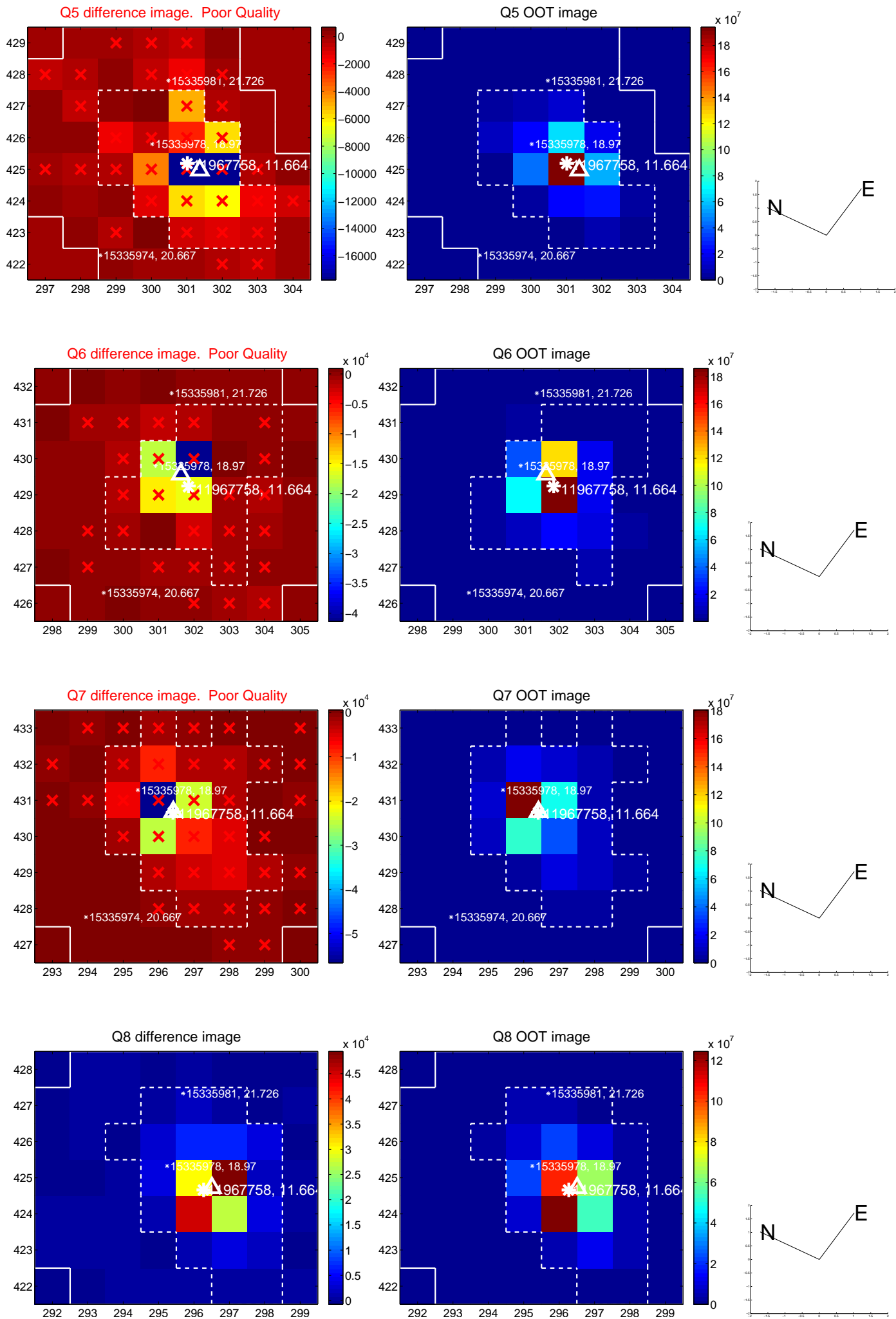


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

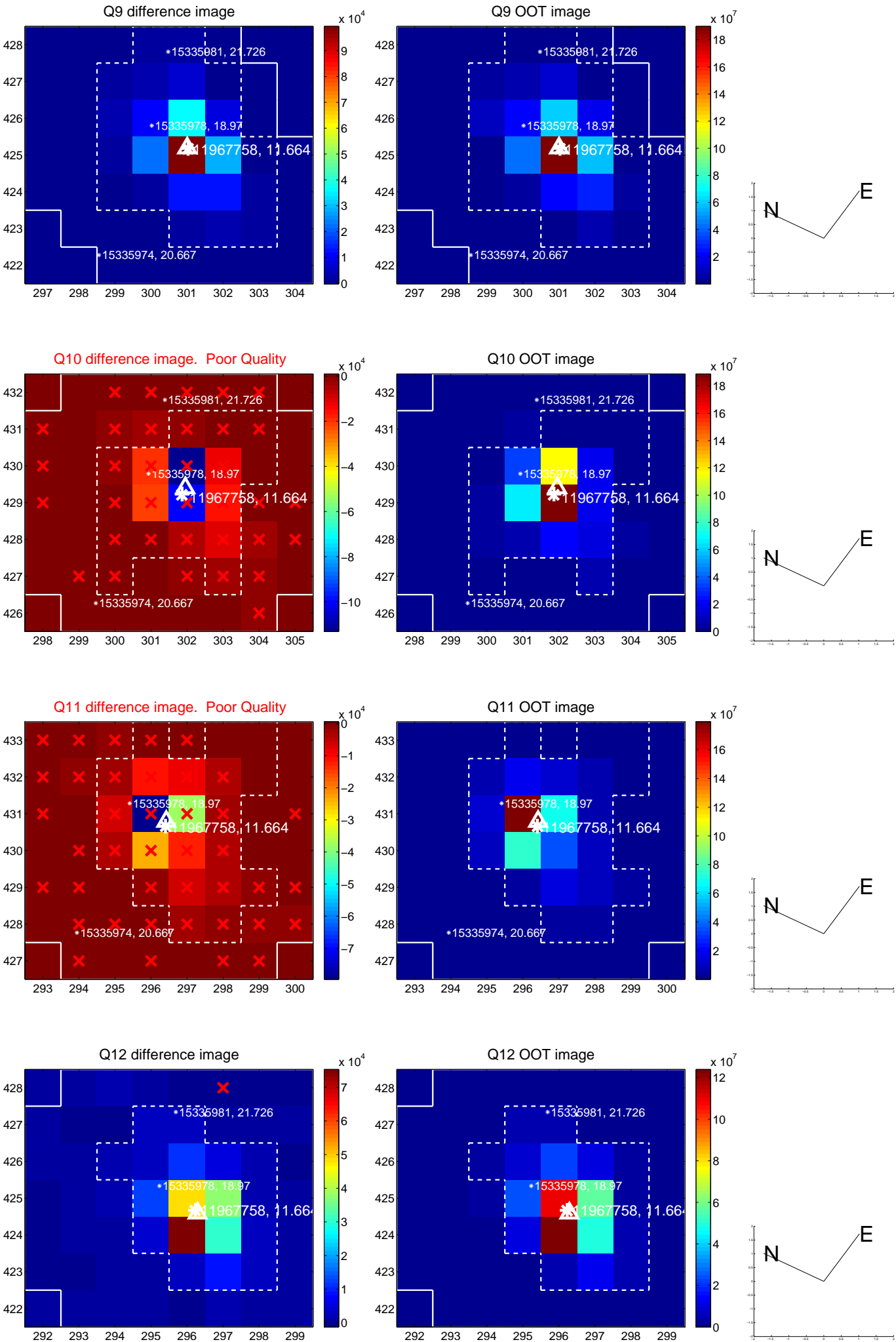
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



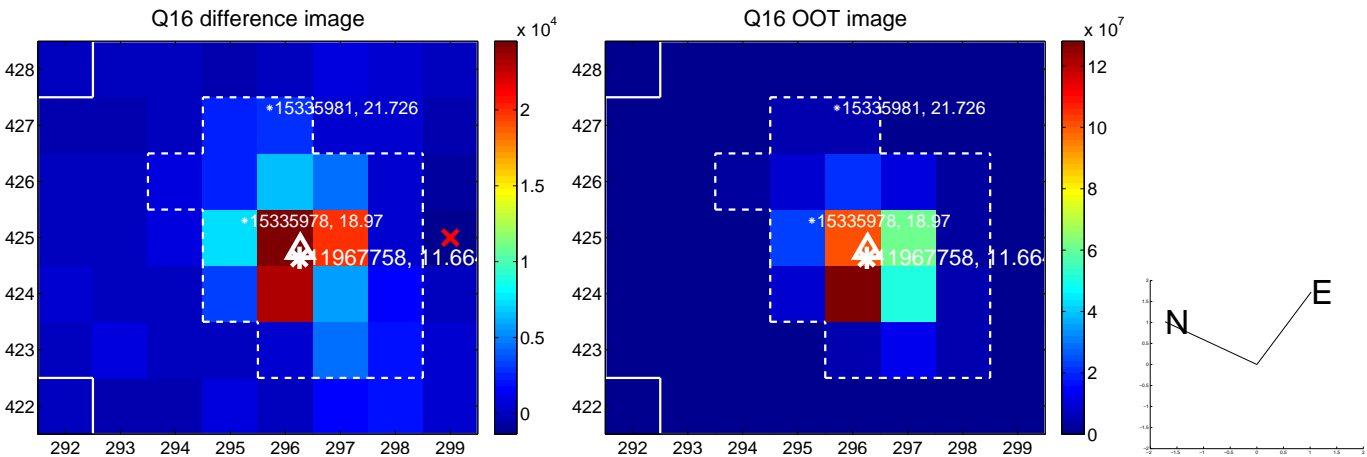
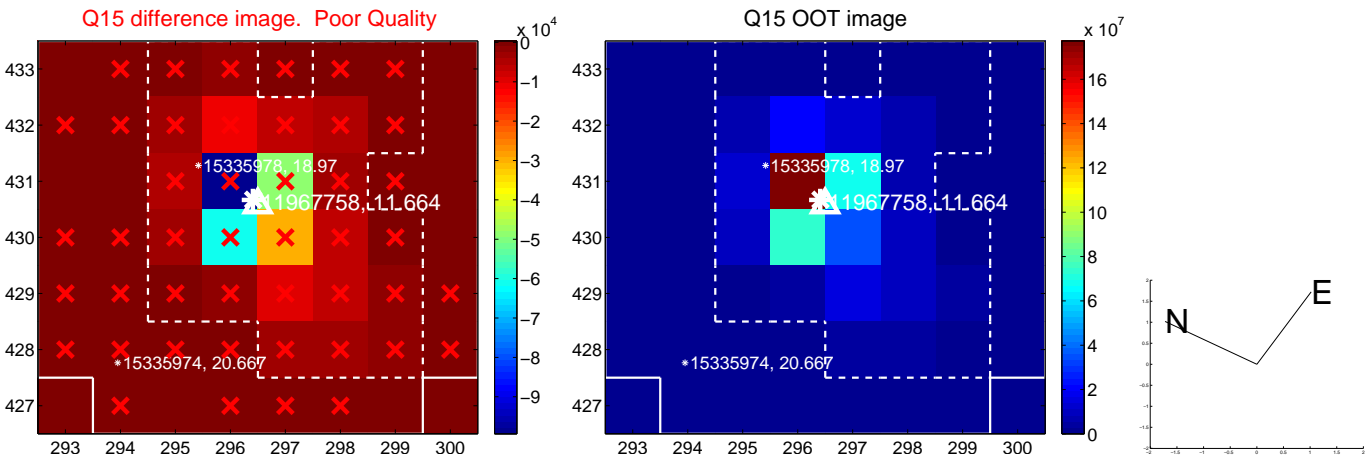
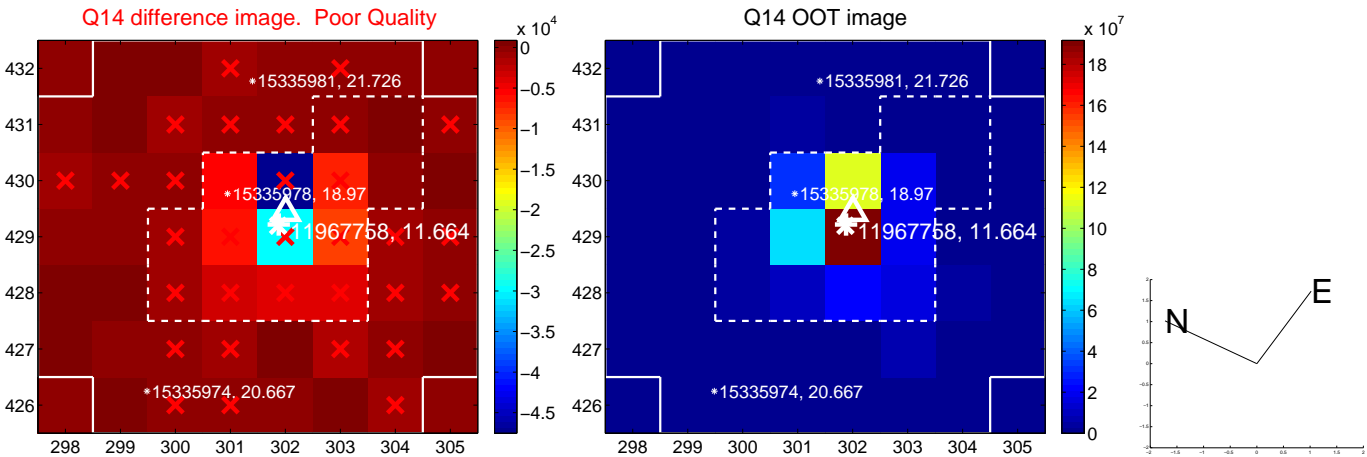
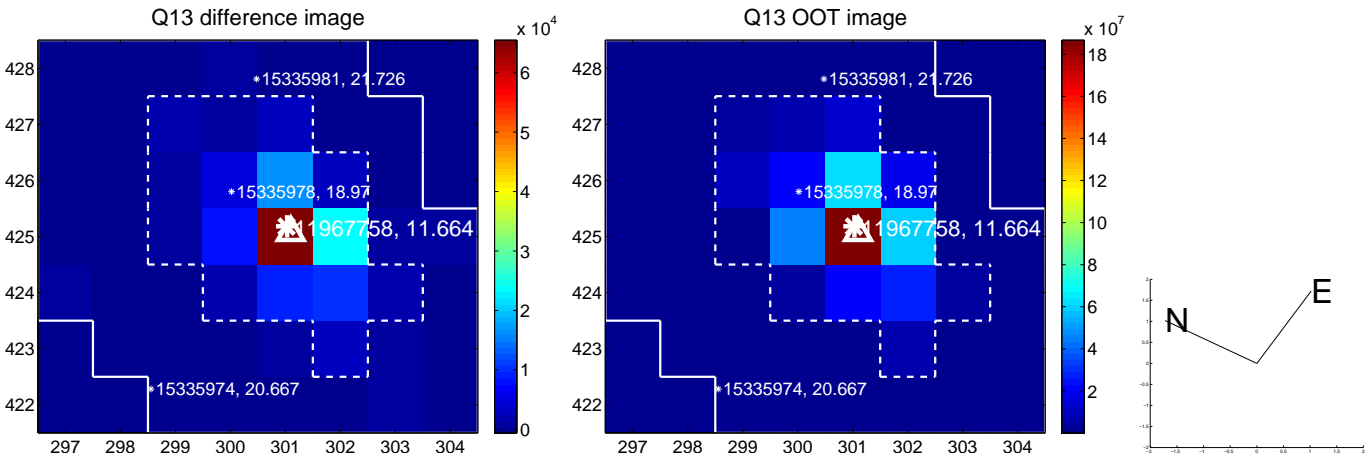
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



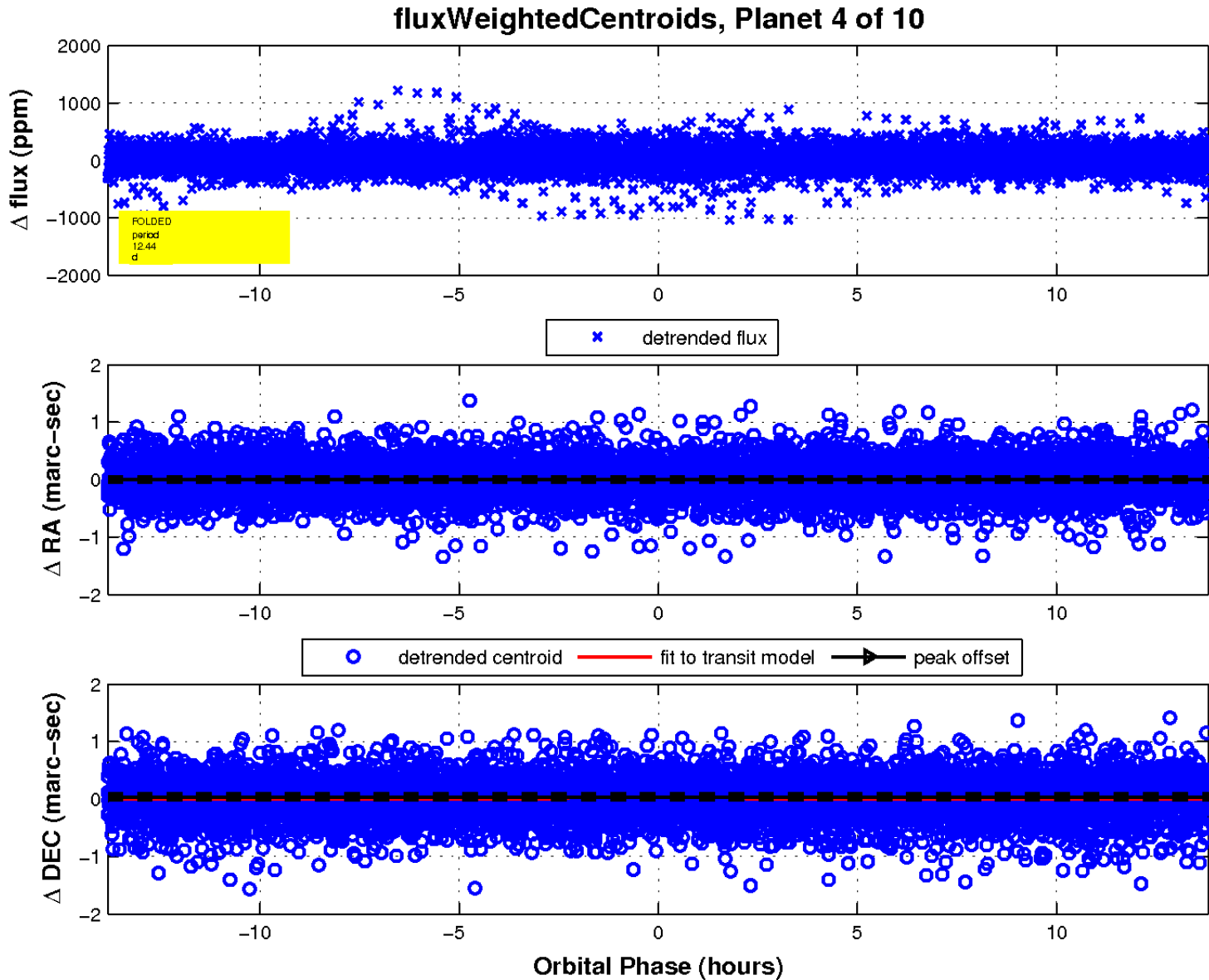
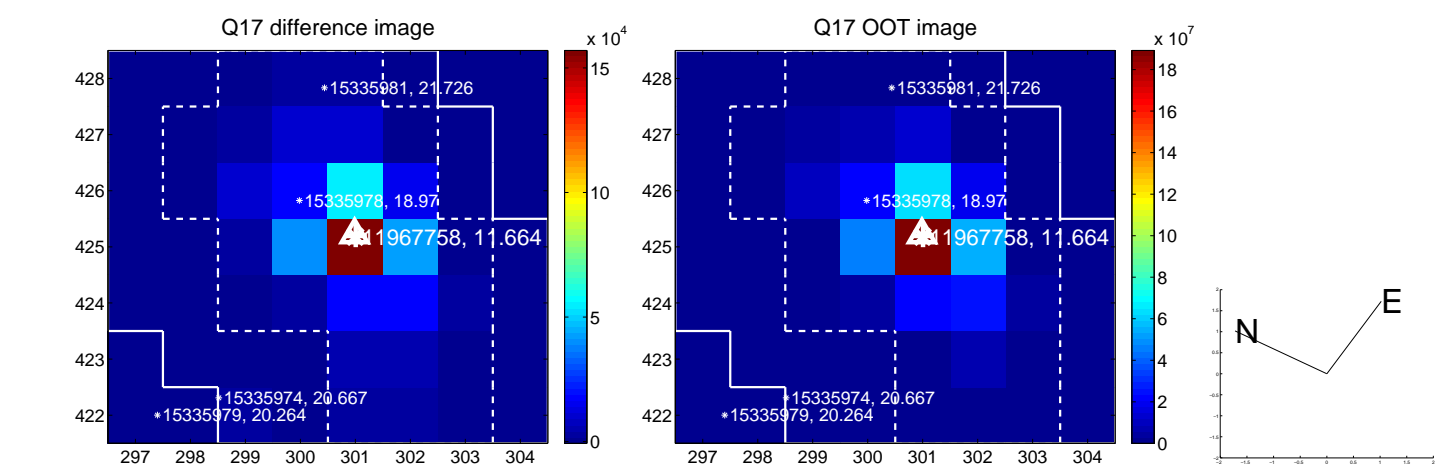
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

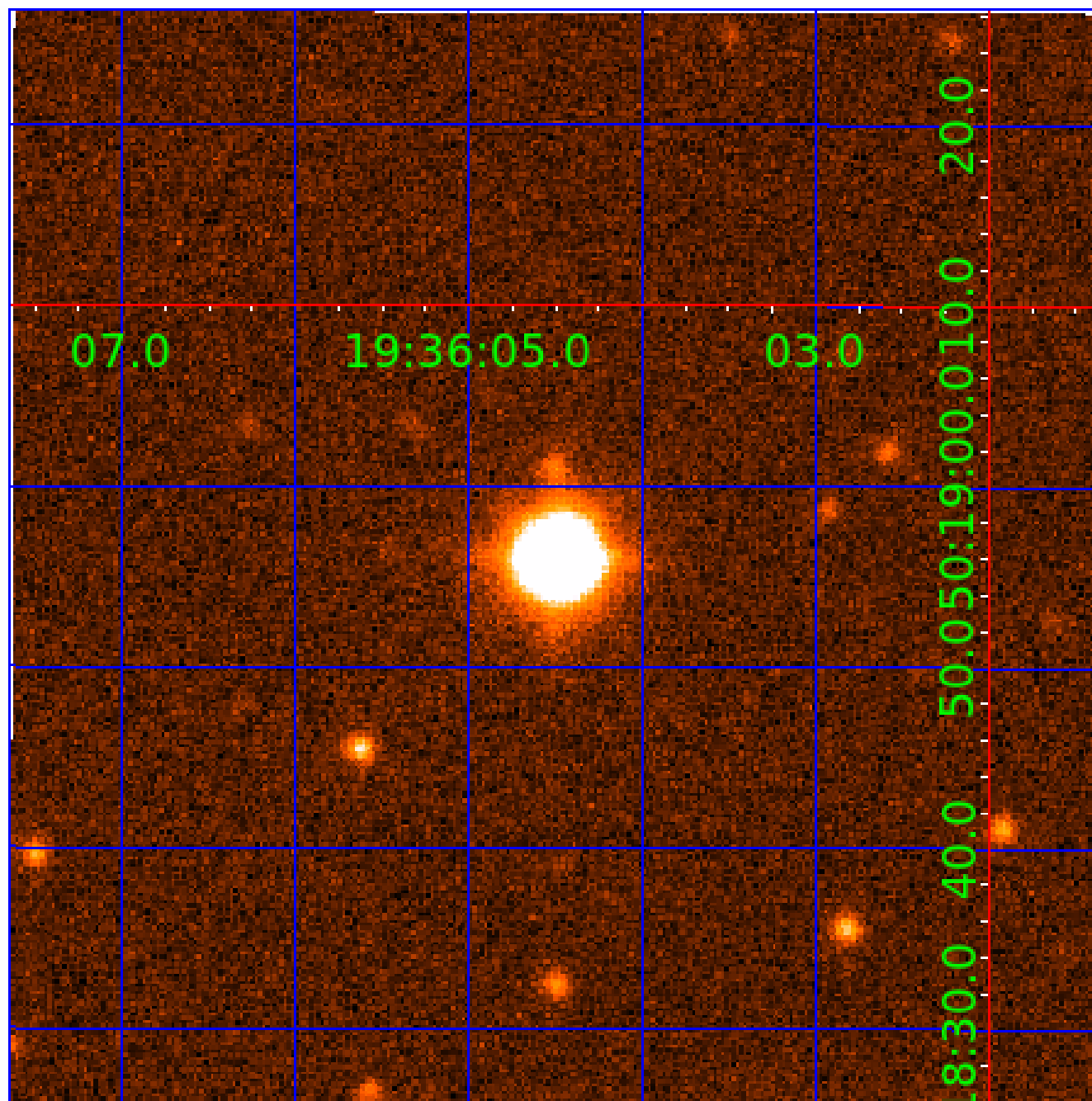


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

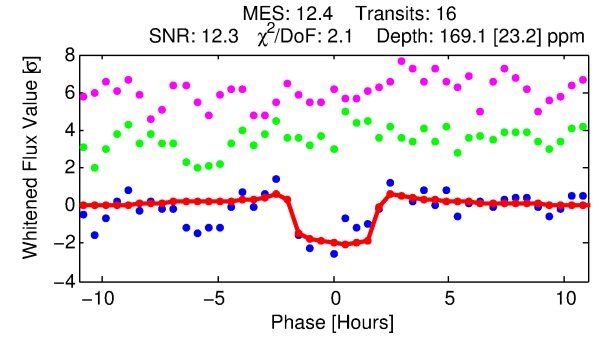
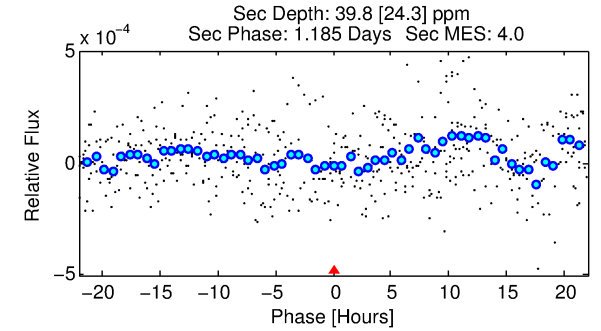
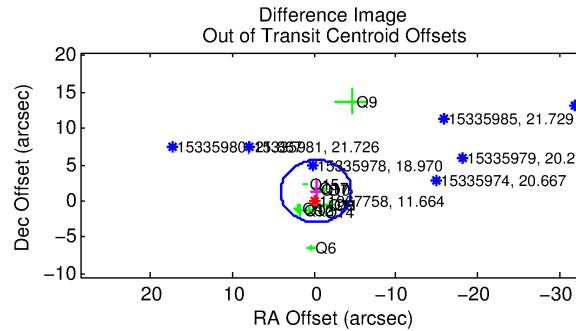
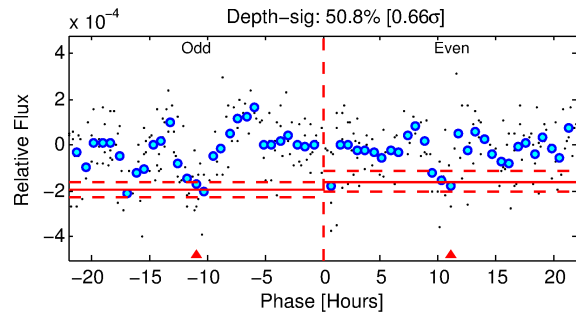
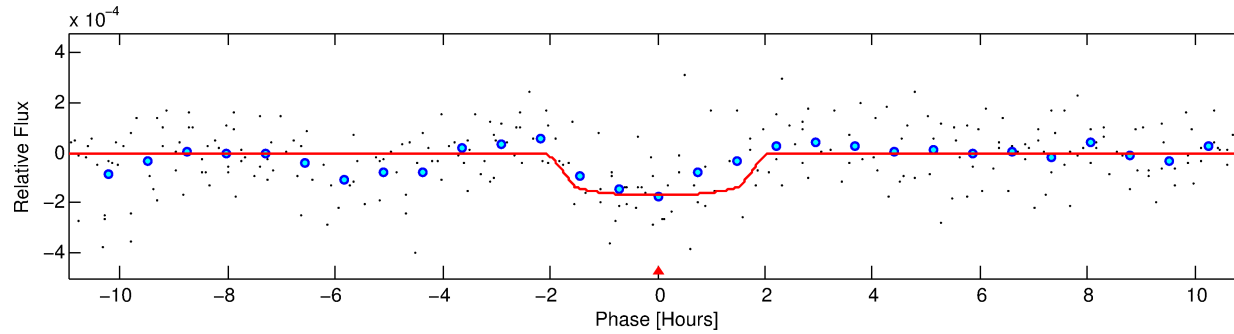
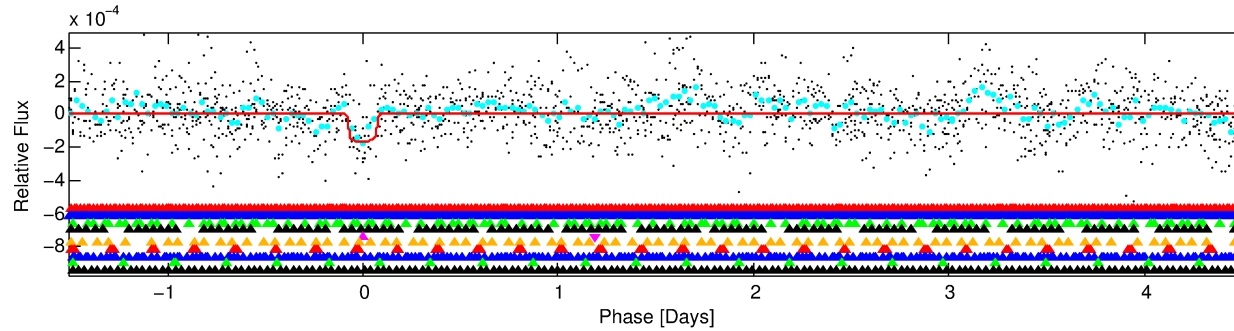
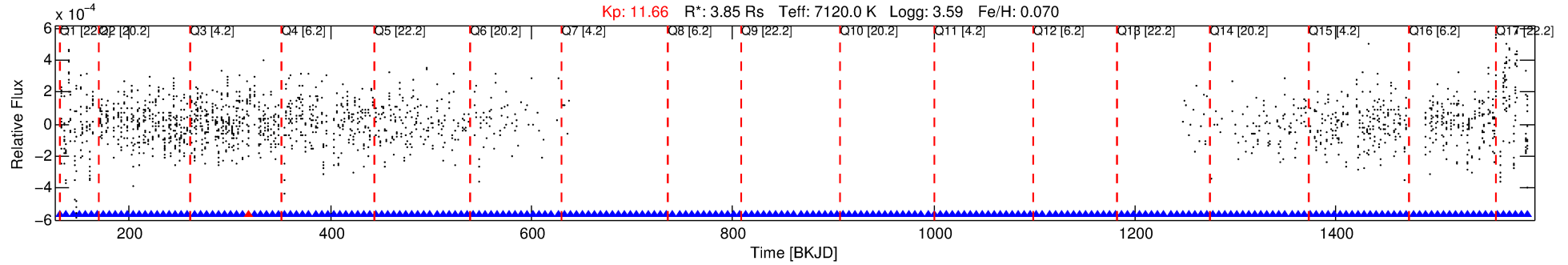
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-05

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 5 of 10 Period: 6.029 d



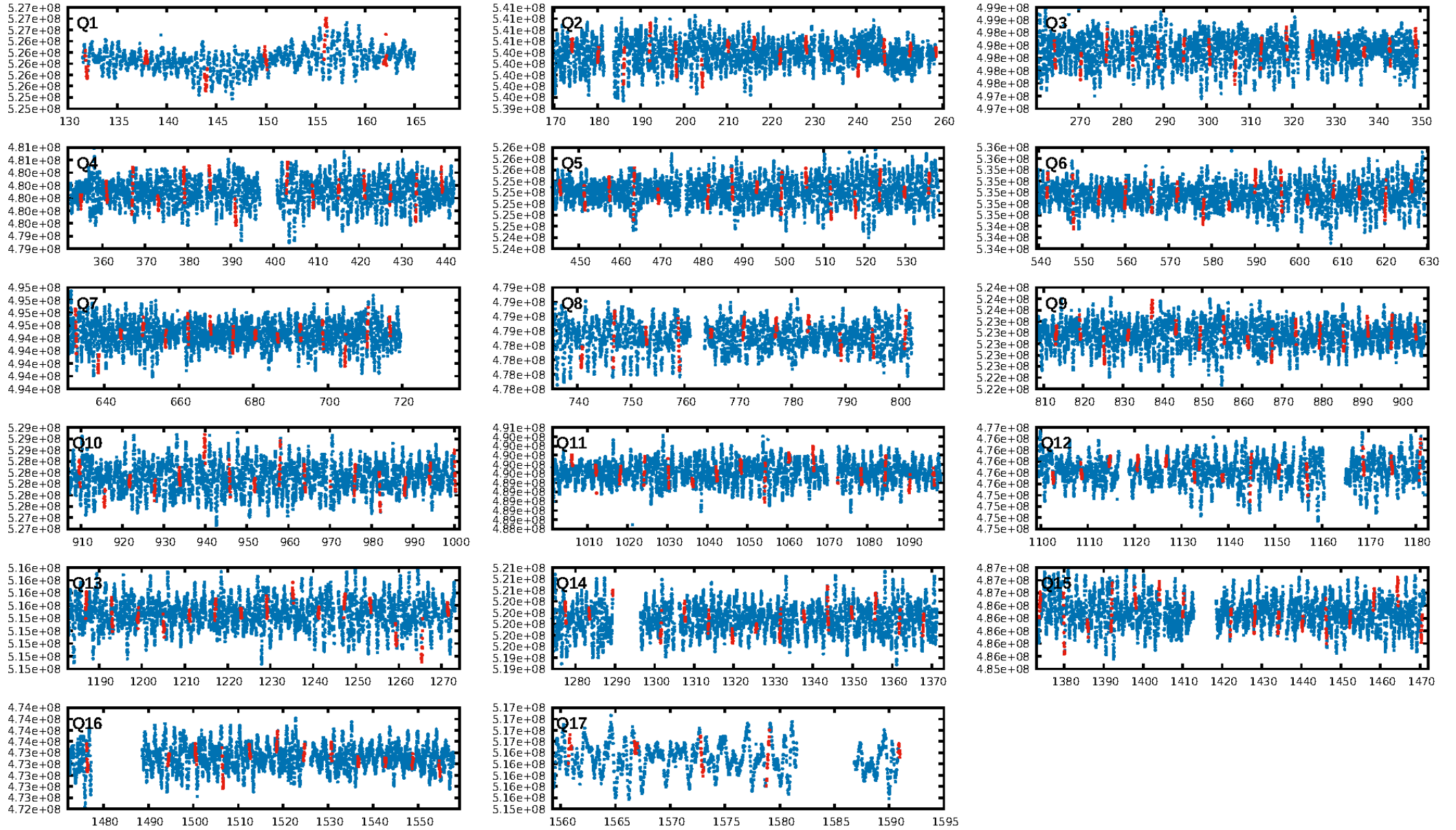
DV Fit Results:

Period = 6.02936 [0.00006] d
Epoch = 131.8790 [0.0057] BKJD
Rp/R* = 0.0121 [0.0121]
a/R* = 12.74 [70.98]
b = 0.06 [98.92]
Seff = 4941.59 [2747.91]
Teq = 2138 [297] K
Rp = 5.06 [5.38] Re
a = 0.0830 [0.0284] AU
Ag = 5.90 [12.73] [0.38 σ]
Teffp = 5151 [2698] K [1.11 σ]

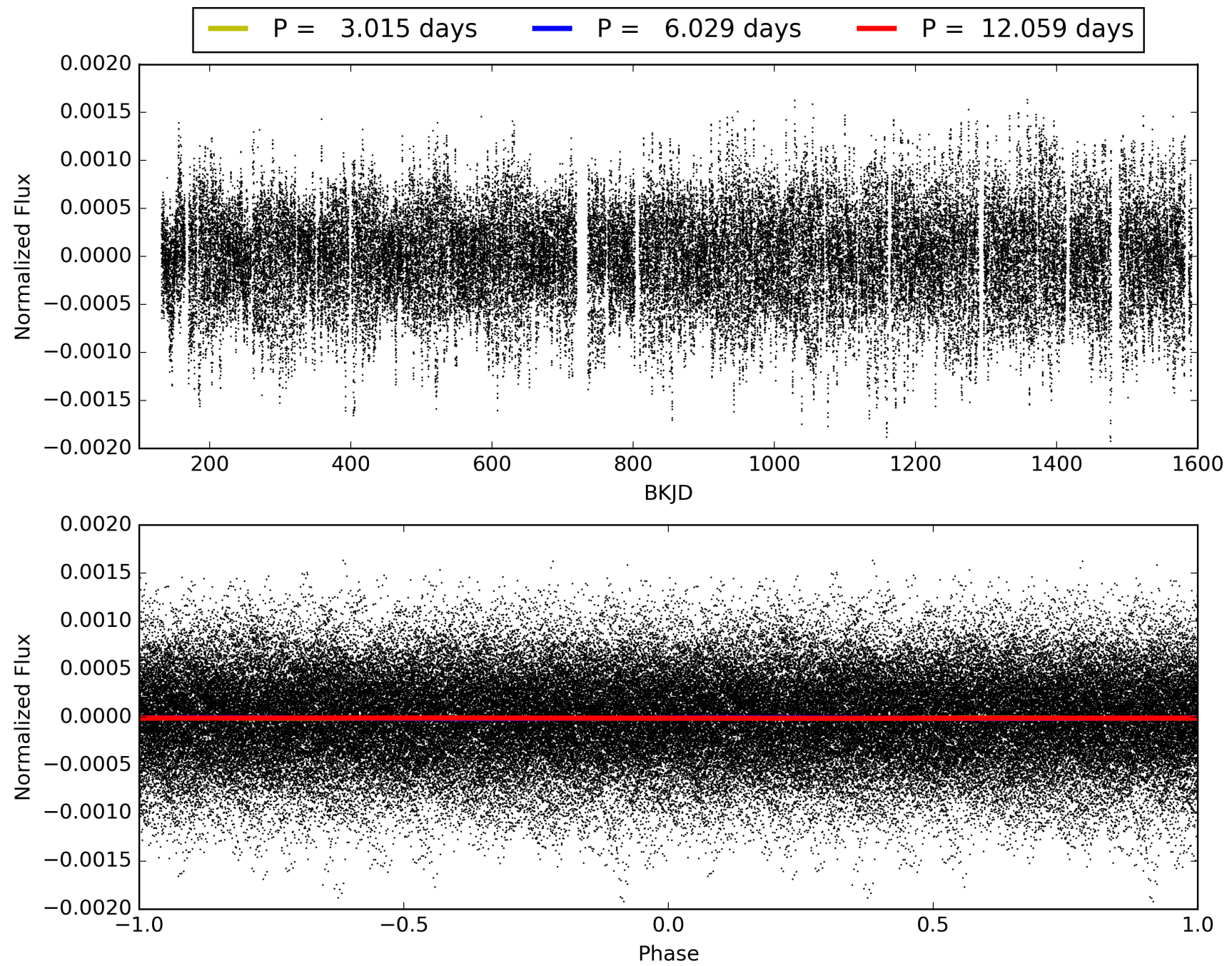
DV Diagnostic Results:

ShortPeriod-sig: 99.9% [3.28 σ]
LongPeriod-sig: 100.0% [12.27 σ]
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.93 [14/15]
GhostDiagnostic-chr: 1.502
Centroid-sig: 2.8%
Centroid-so: 0.169 arcsec [0.98 σ]
OotOffset-rm: 1.341 arcsec [0.93 σ]
OotOffset-st: 3/4/3/2 [12]
KicOffset-rm: 1.332 arcsec [1.02 σ]
KicOffset-st: 3/4/3/2 [12]
DiffImageQuality-fgm: 0.42 [5/12]
DiffImageOverlap-fno: 0.12 [2/17]

TCE 011967758-05, PDC Light Curves

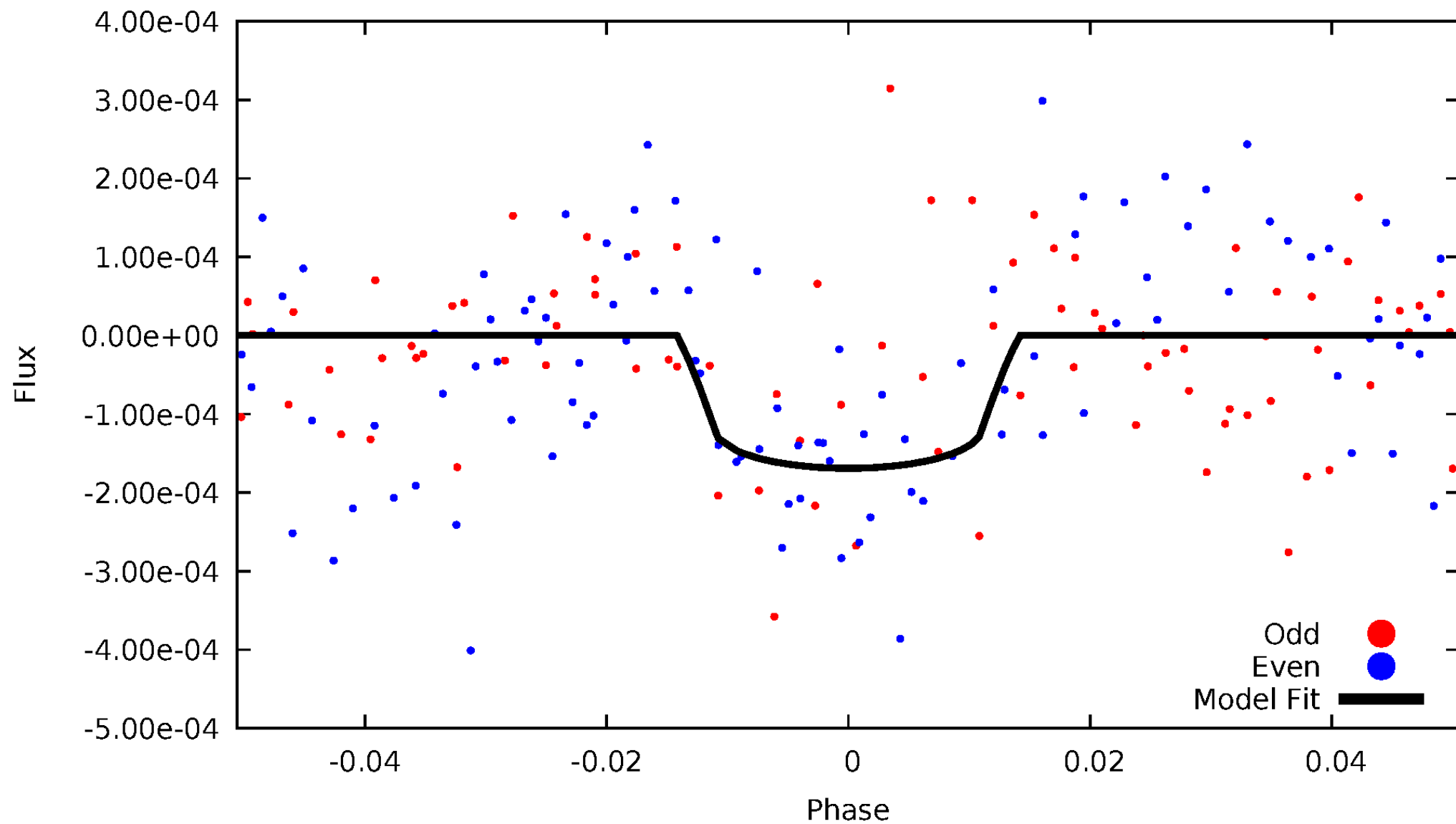


TCE 011967758-05



DV Odd/Even

TCE 011967758-05

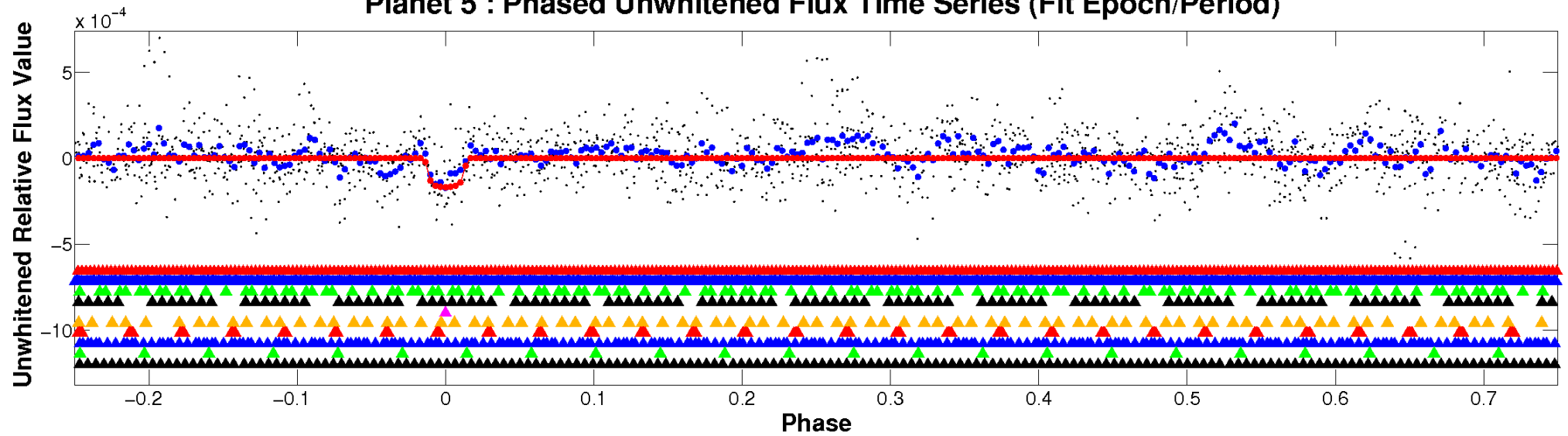


ALT Odd/Even

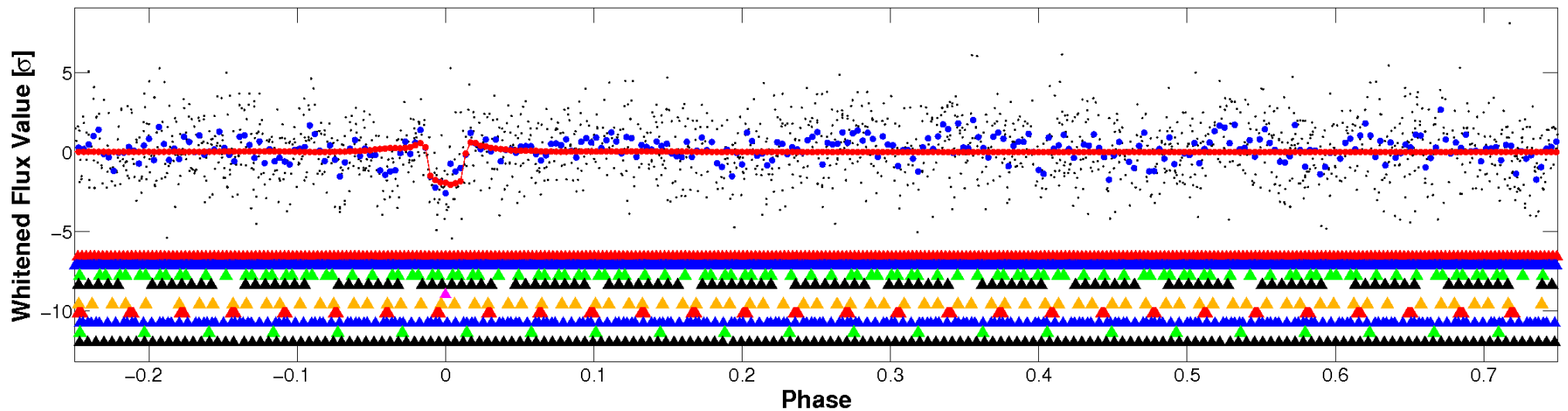
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

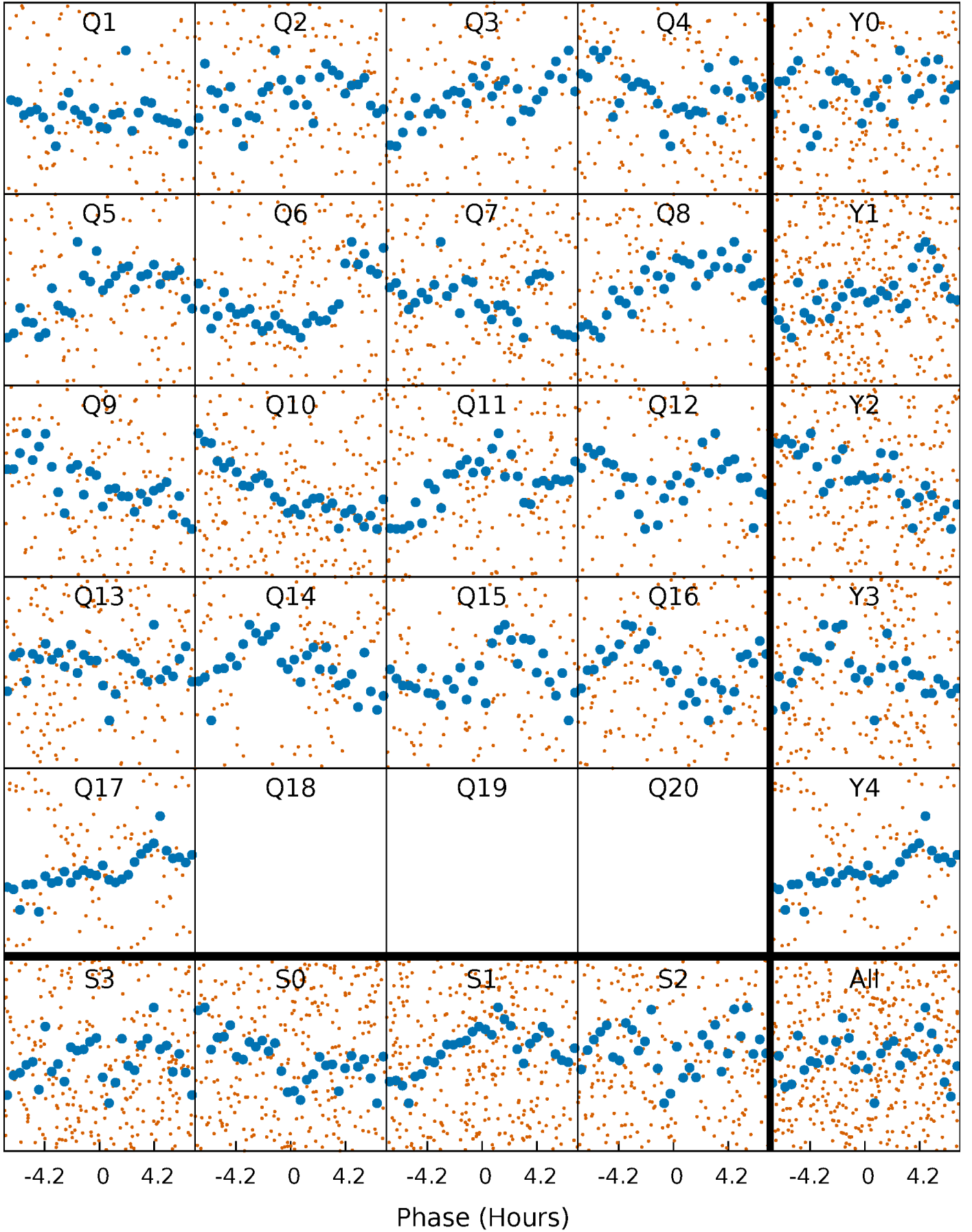


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



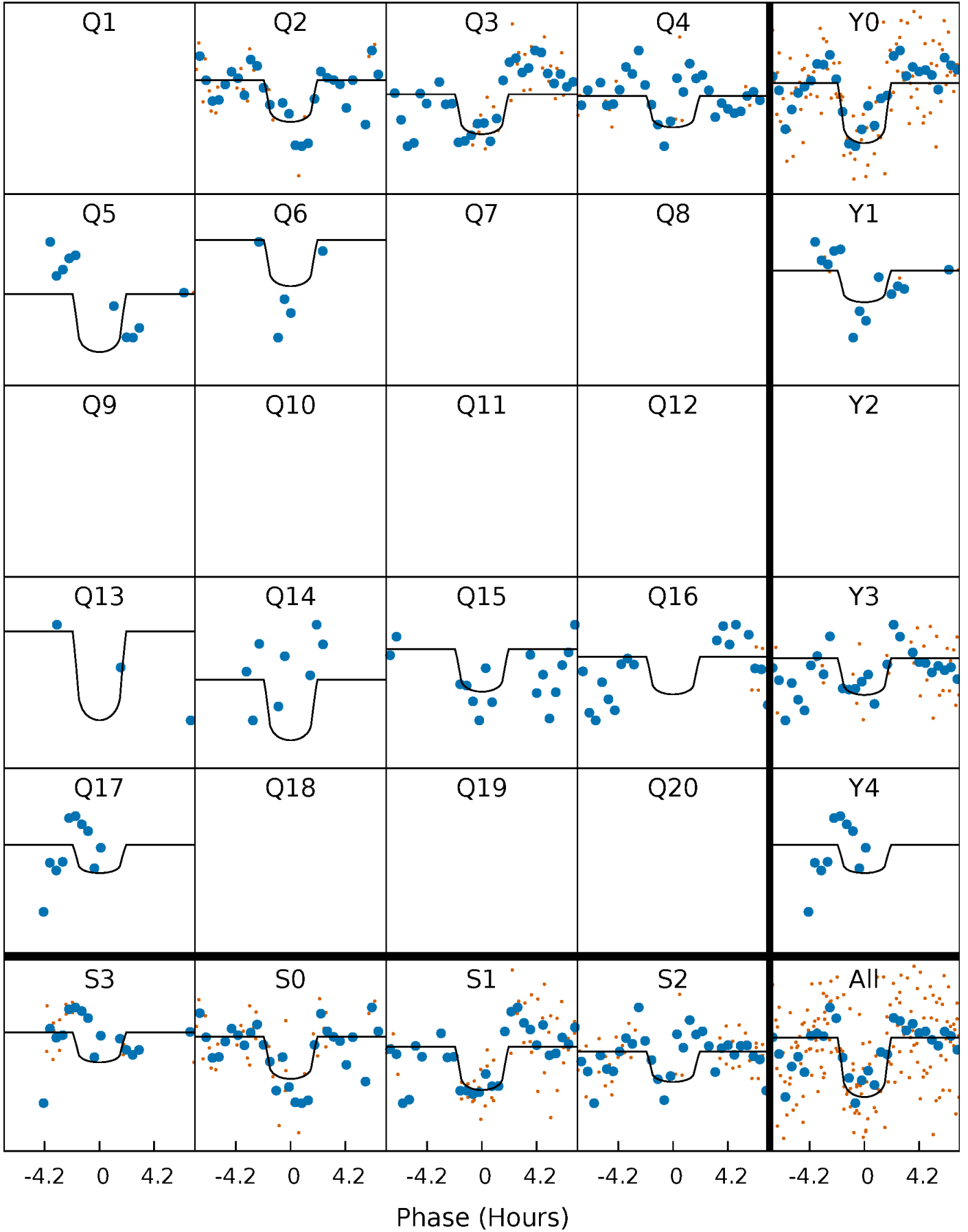
PDC Quarter-Phased Transit Curves

TCE 011967758-05 $P = 6.029365$ Days $T_0 = 131.879015$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-05 $P = 6.029365$ Days $T_0 = 131.879015$ (BKJD)

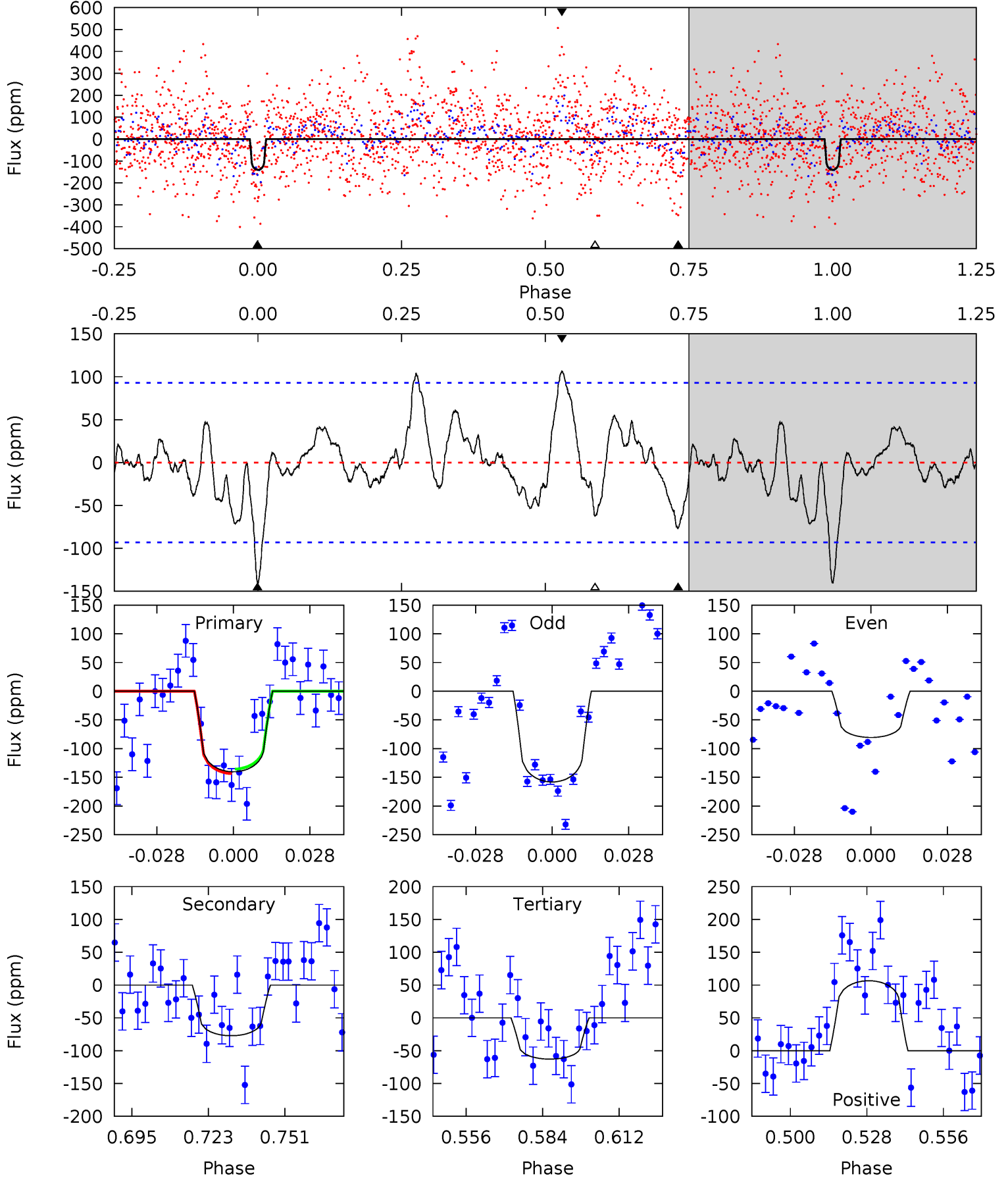


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-05, P = 6.029365 Days, E = 131.879015 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.28	4.01	3.26	5.53	4.83	2.20	1.75	4.02	1.75	0.75	-1.52	1.98	0.70	0.43	0.20



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-77 ± 19	$5.60^{+4.39}_{-3.46}$	2918^{+140}_{-264}	5444^{+4236}_{-1197}	$9.434^{+54.133}_{-6.531}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

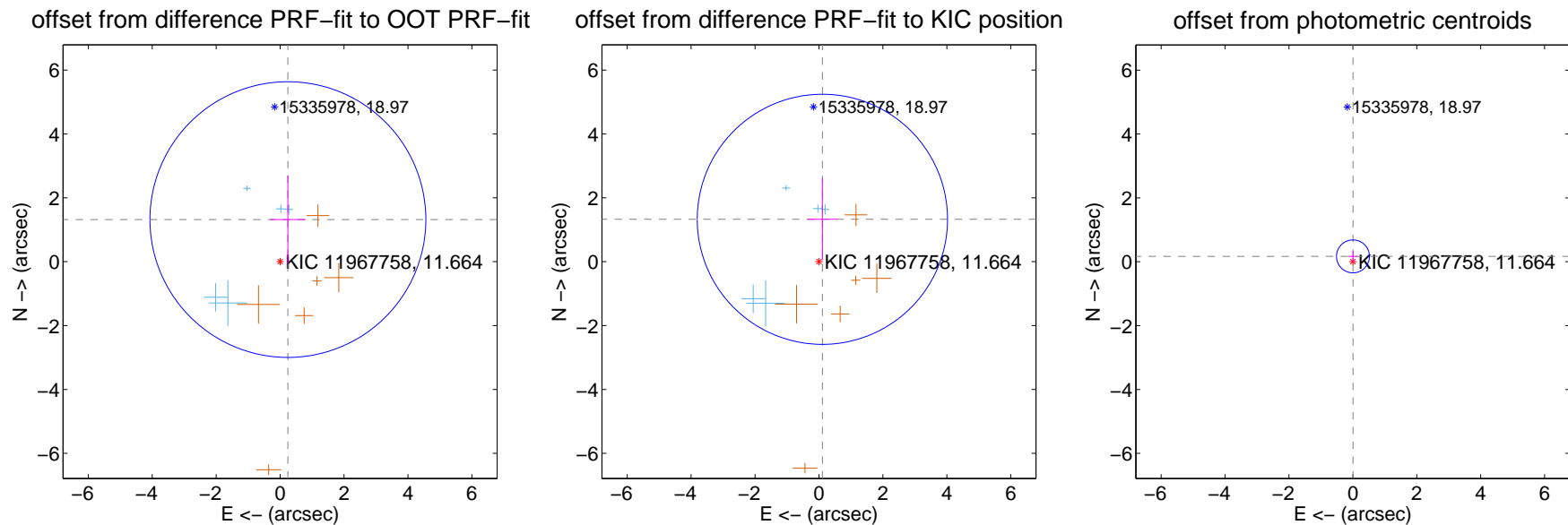
DV Centroid Data

Supplemental centroid analysis for 011967758-05. **Kepler magnitude: 11.66.** Transit SNR 12.26

There are 5 quarters with good PRF difference image offsets

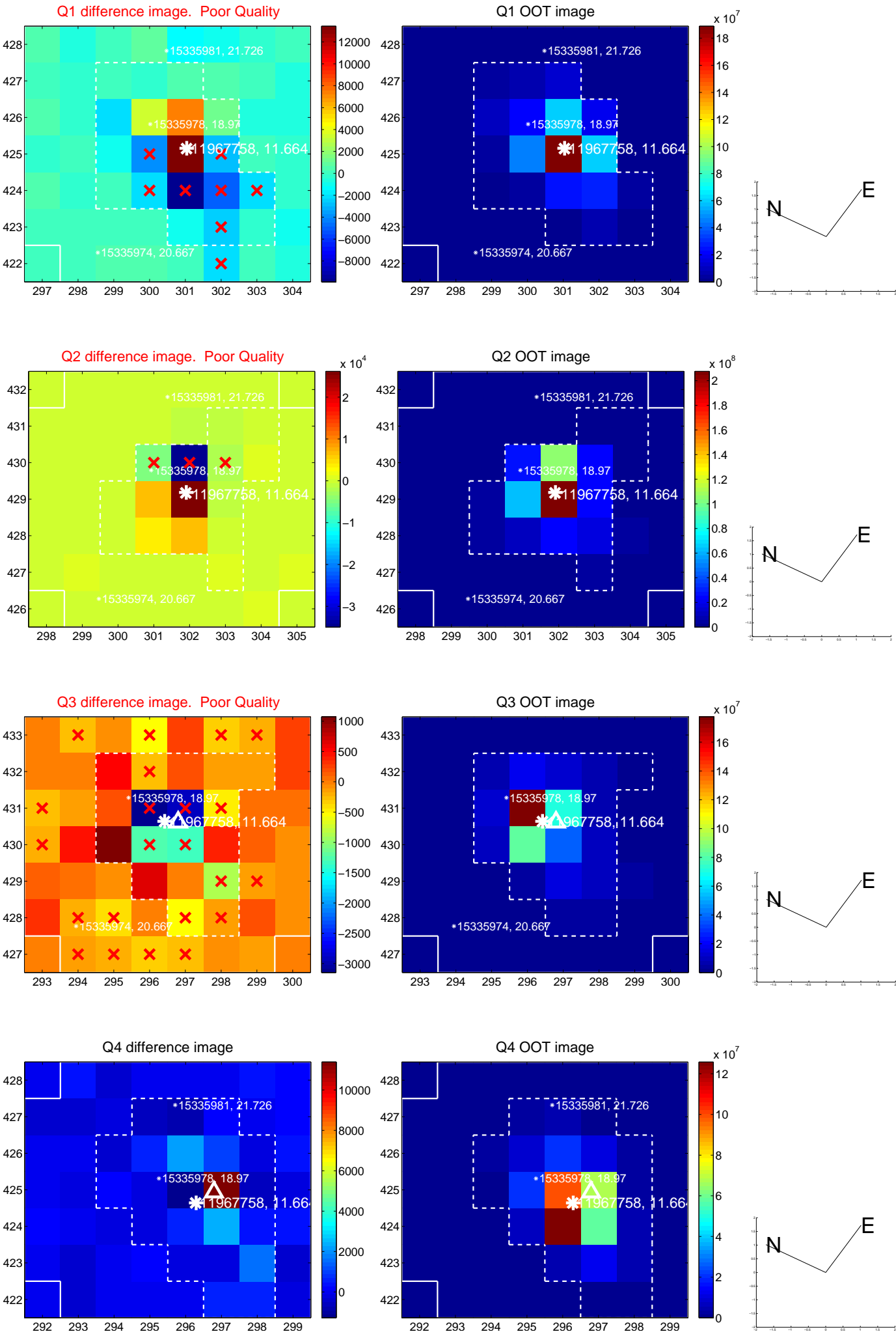
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.341 ± 1.439	0.93	-0.244 ± 0.552	1.319 ± 1.388
PRF-fit source offset from KIC position	1.332 ± 1.305	1.02	-0.107 ± 0.476	1.327 ± 1.284
photometric centroid source offset	0.17 ± 0.17	0.98	-0.00 ± 0.14	0.17 ± 0.17

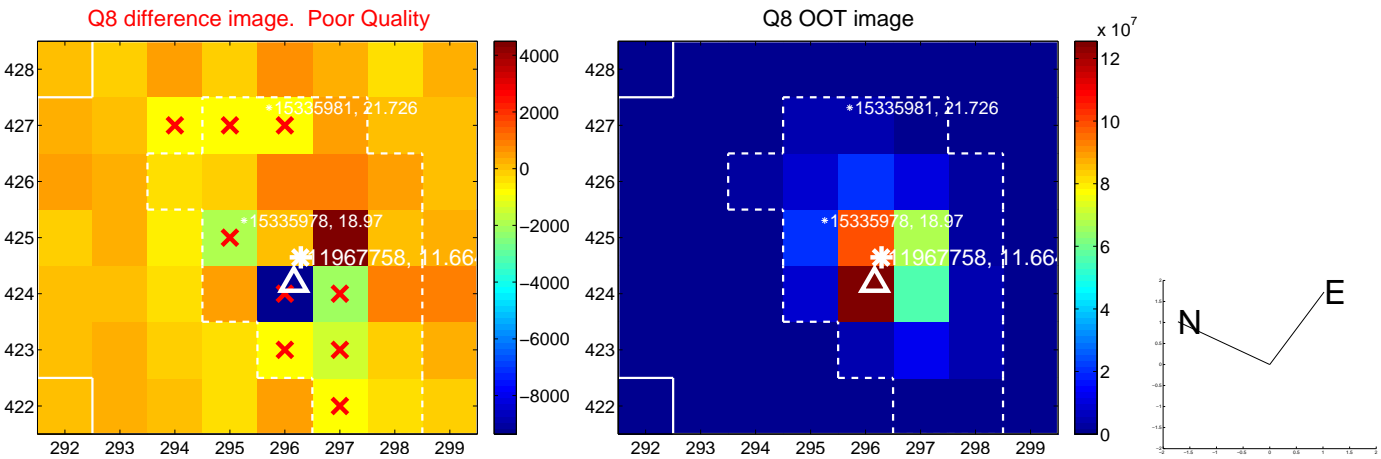
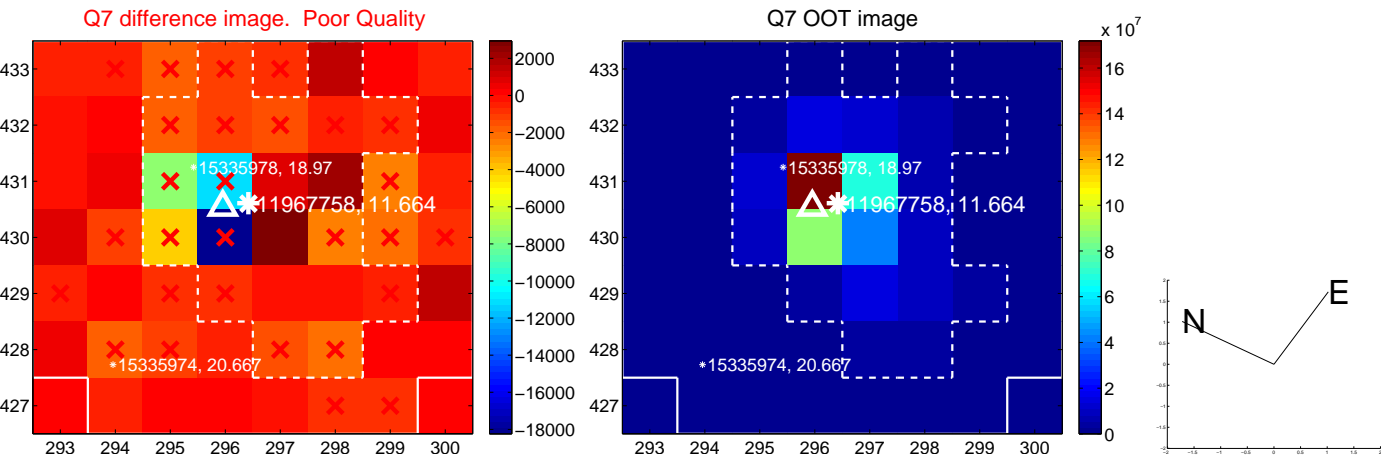
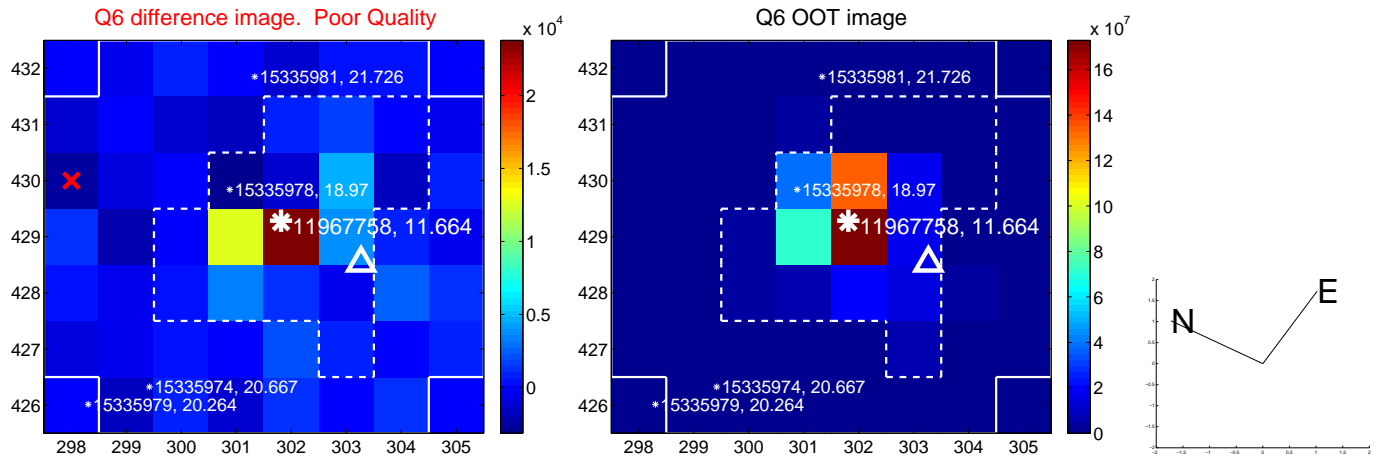
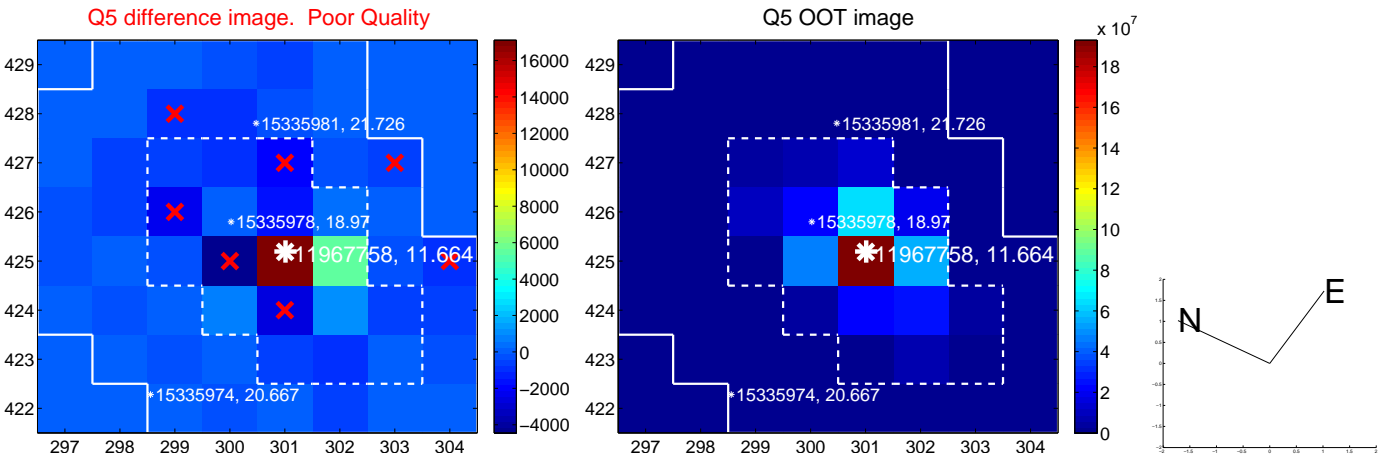


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

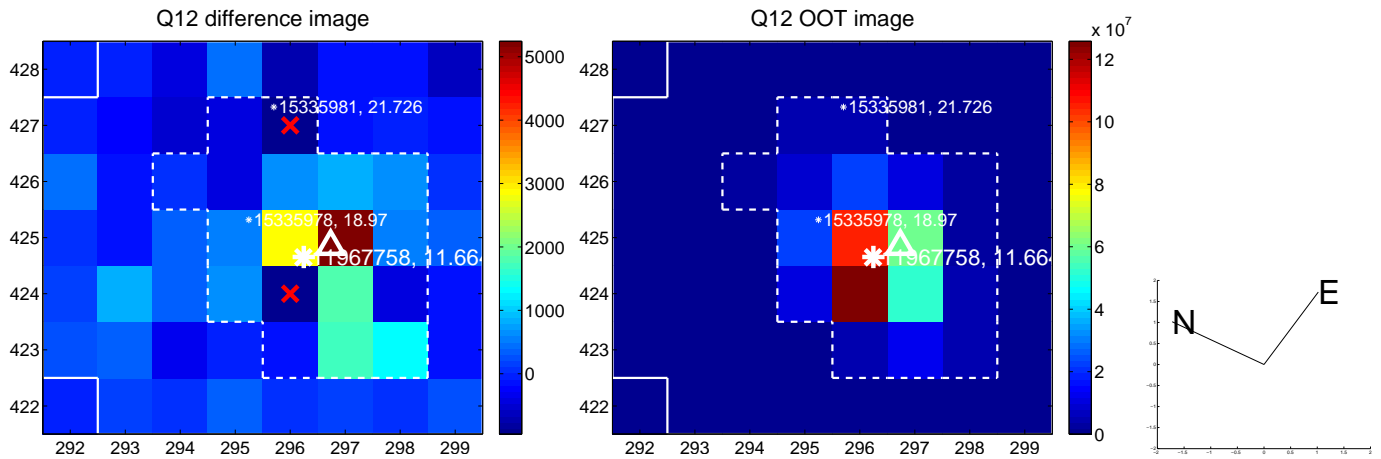
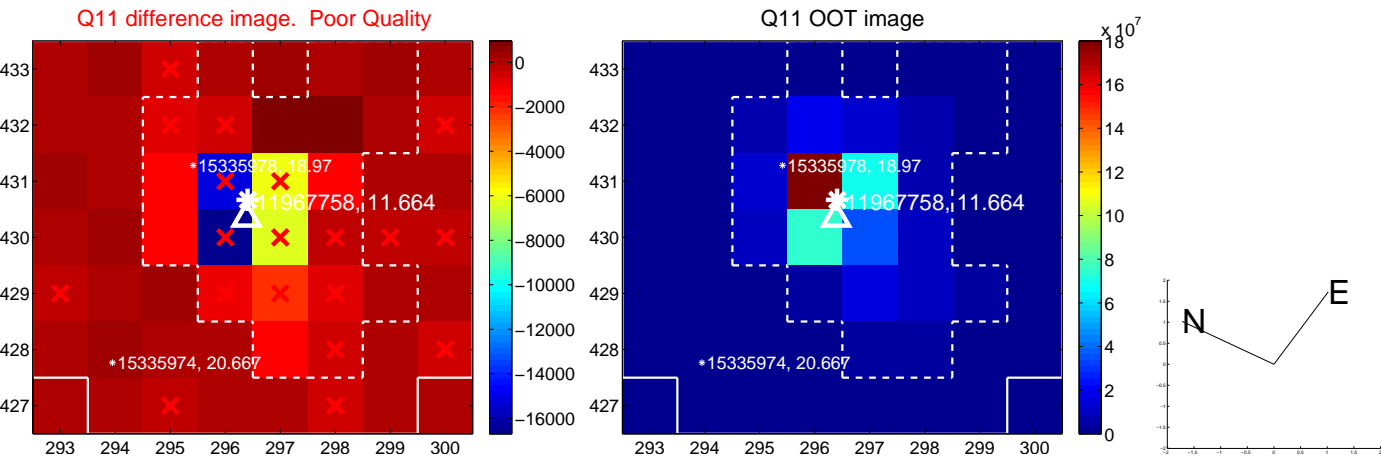
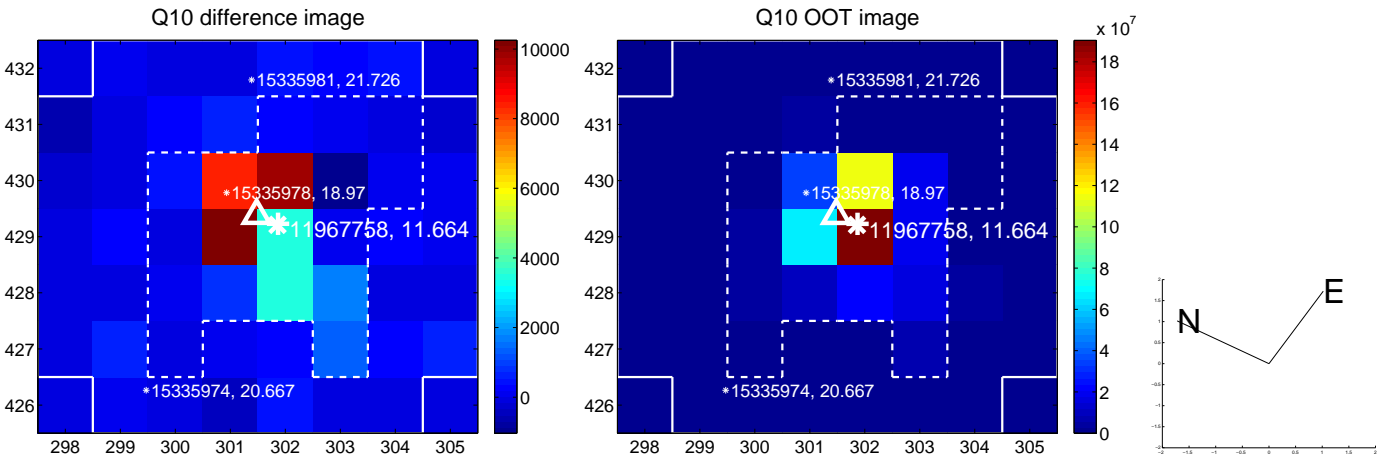
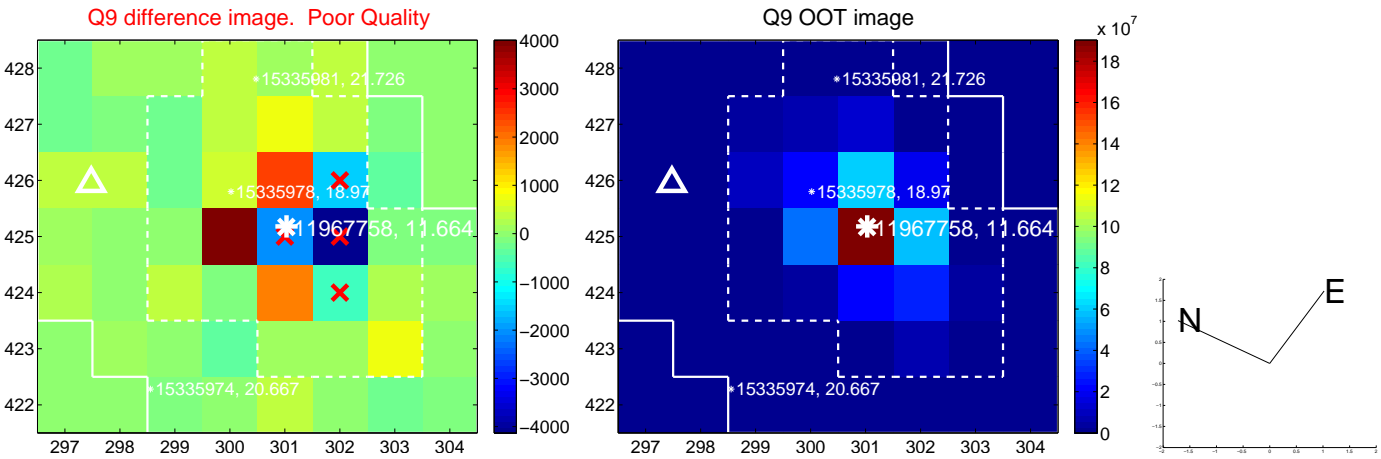
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



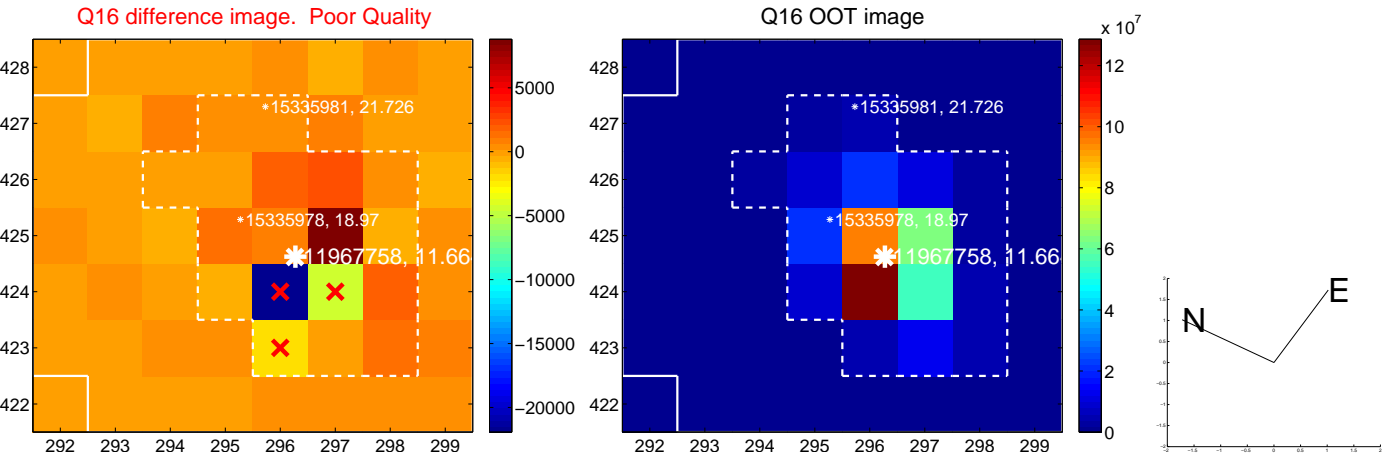
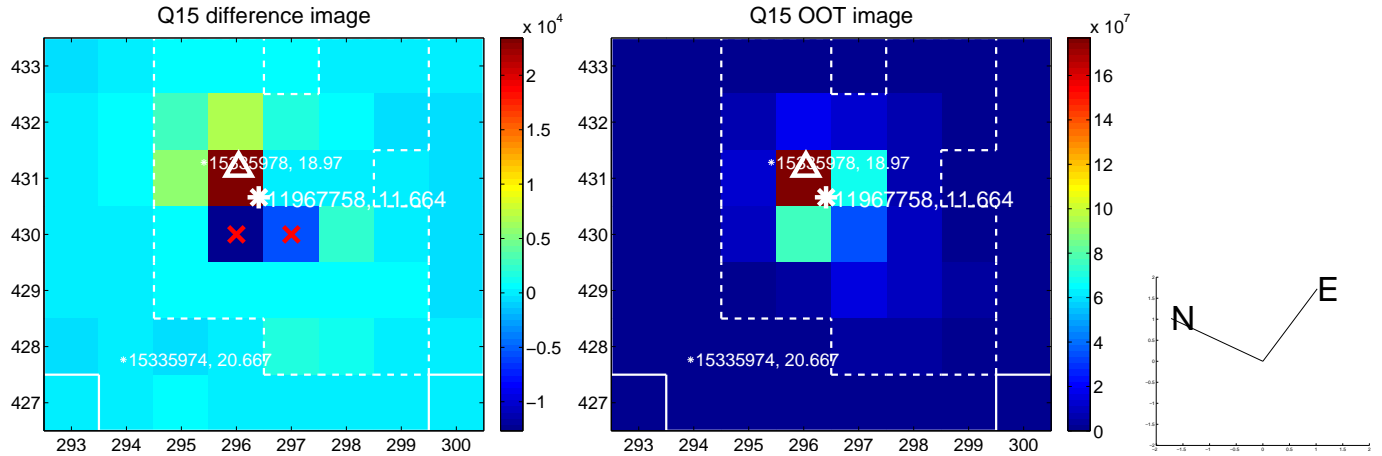
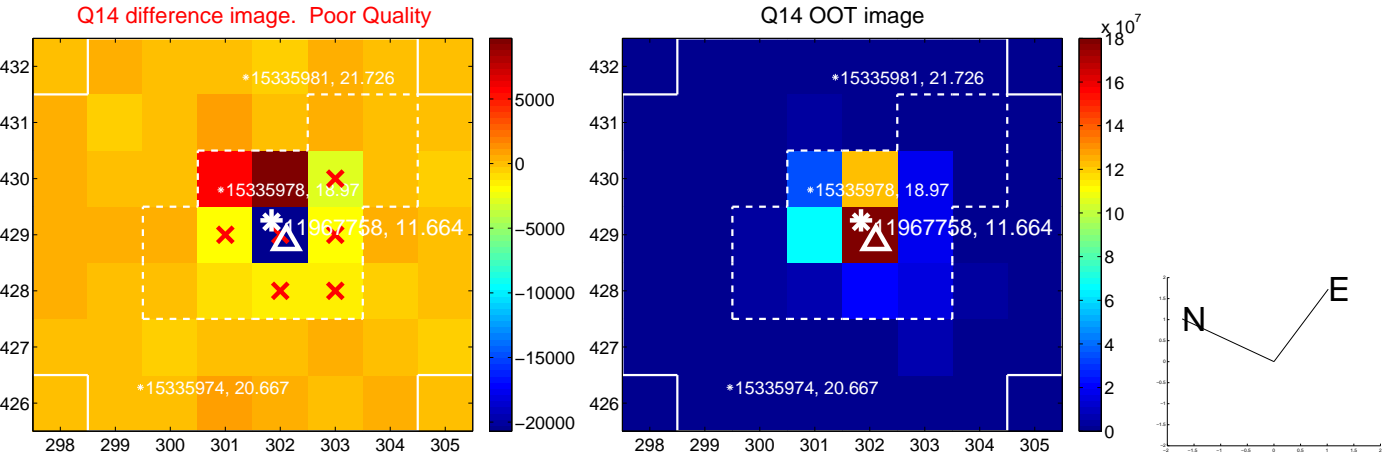
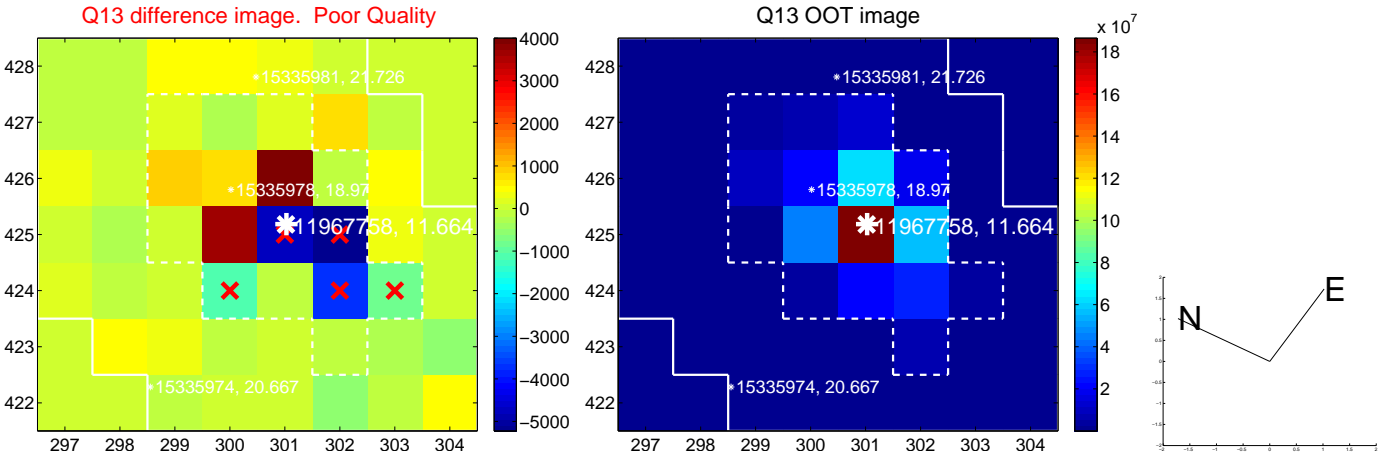
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



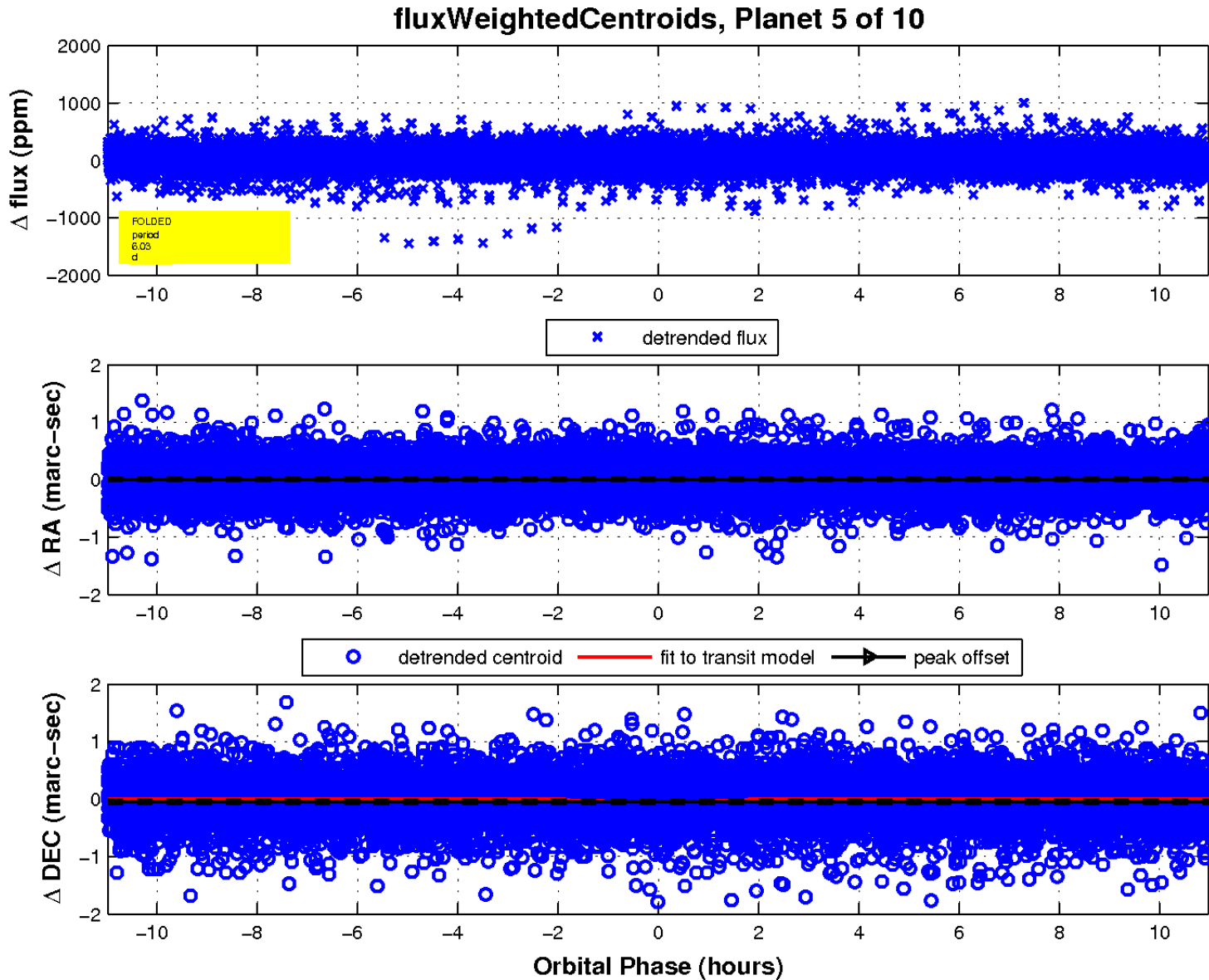
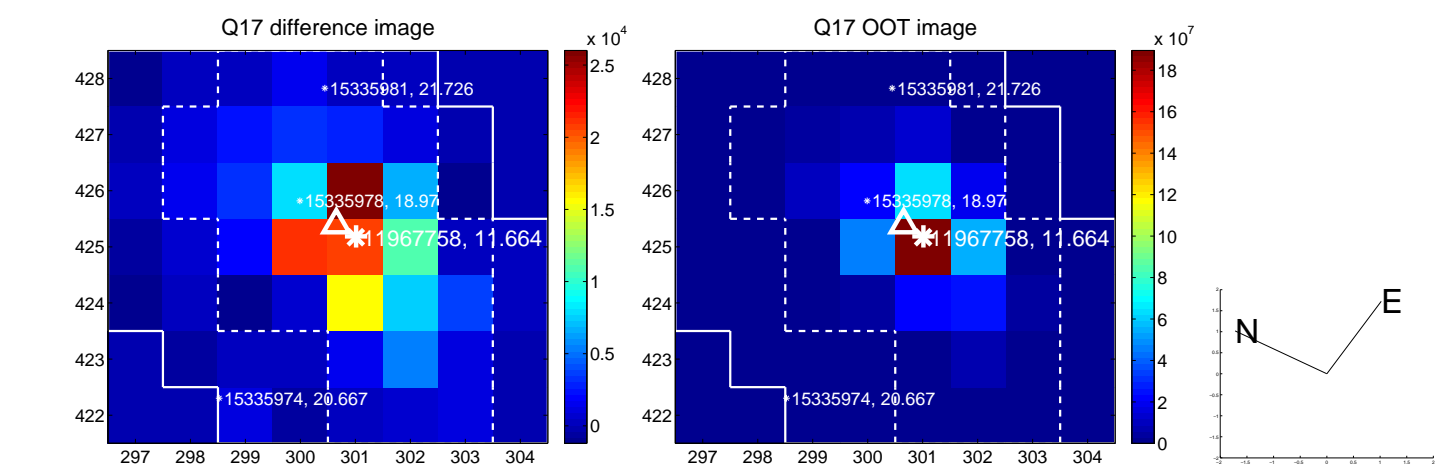
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

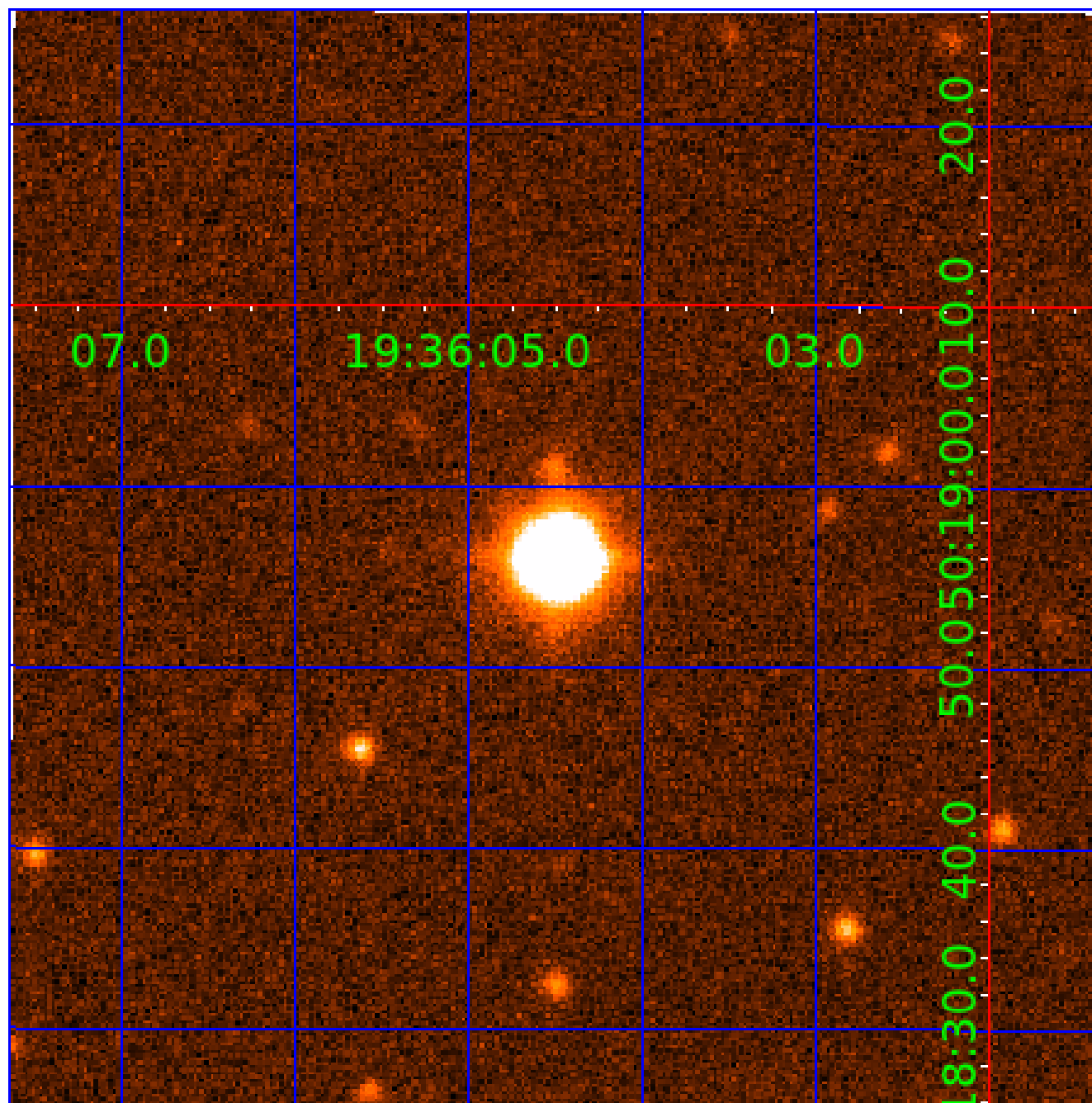


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

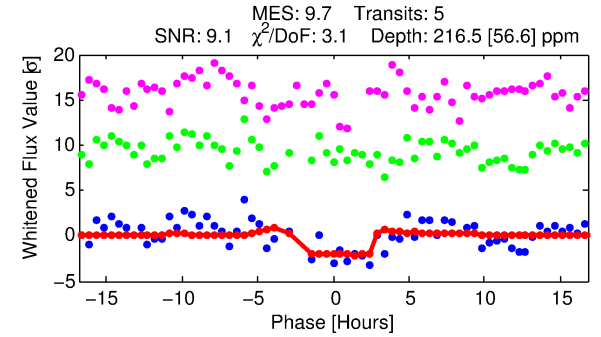
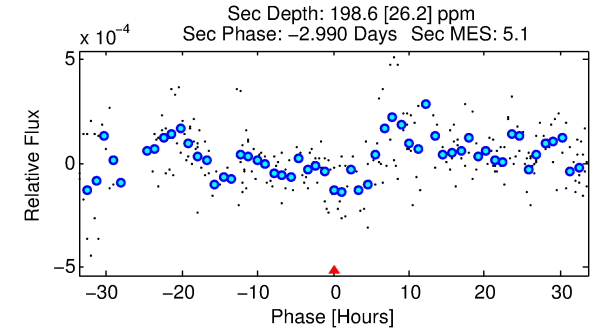
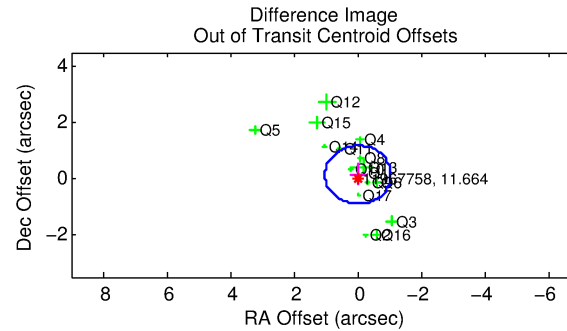
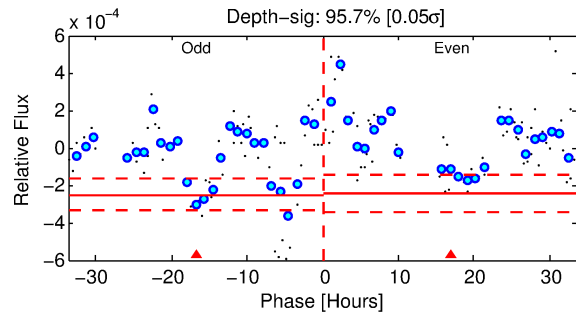
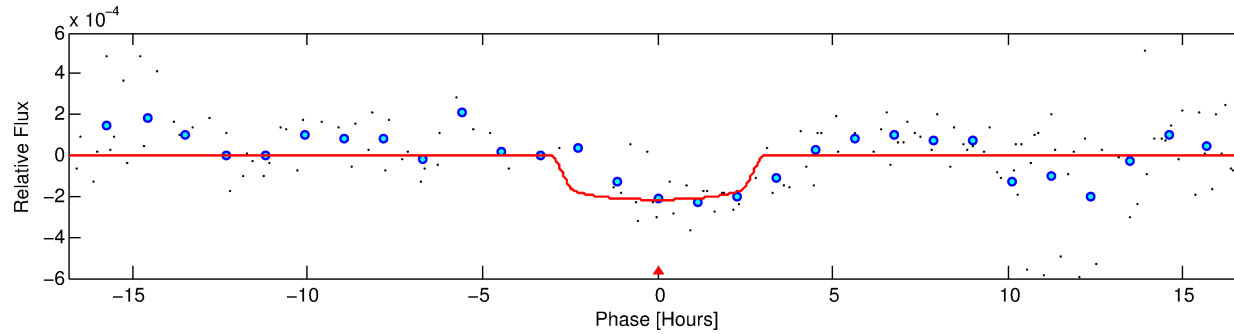
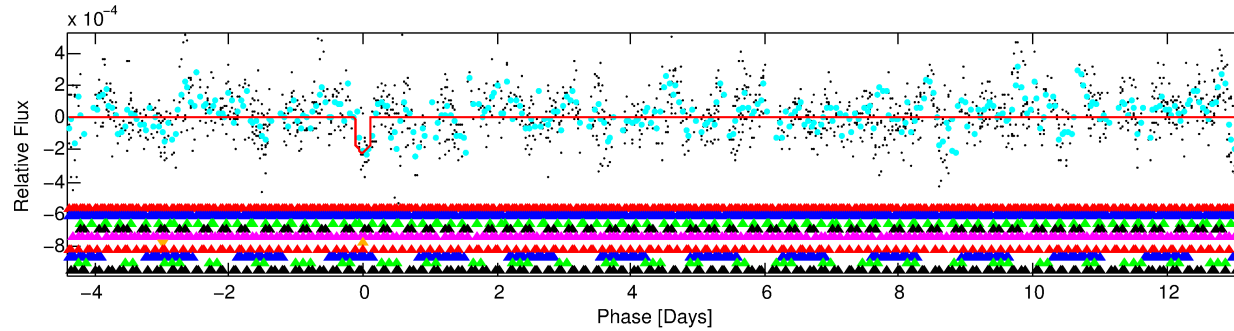
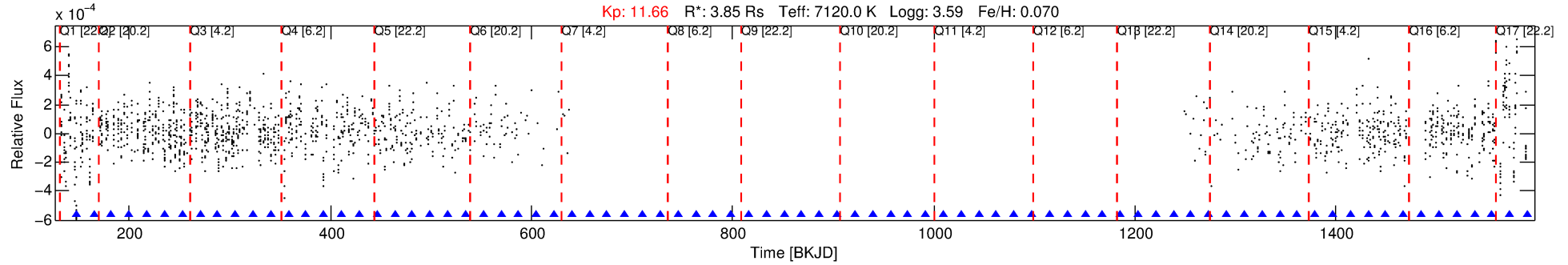
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-06

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 6 of 10 Period: 17.597 d



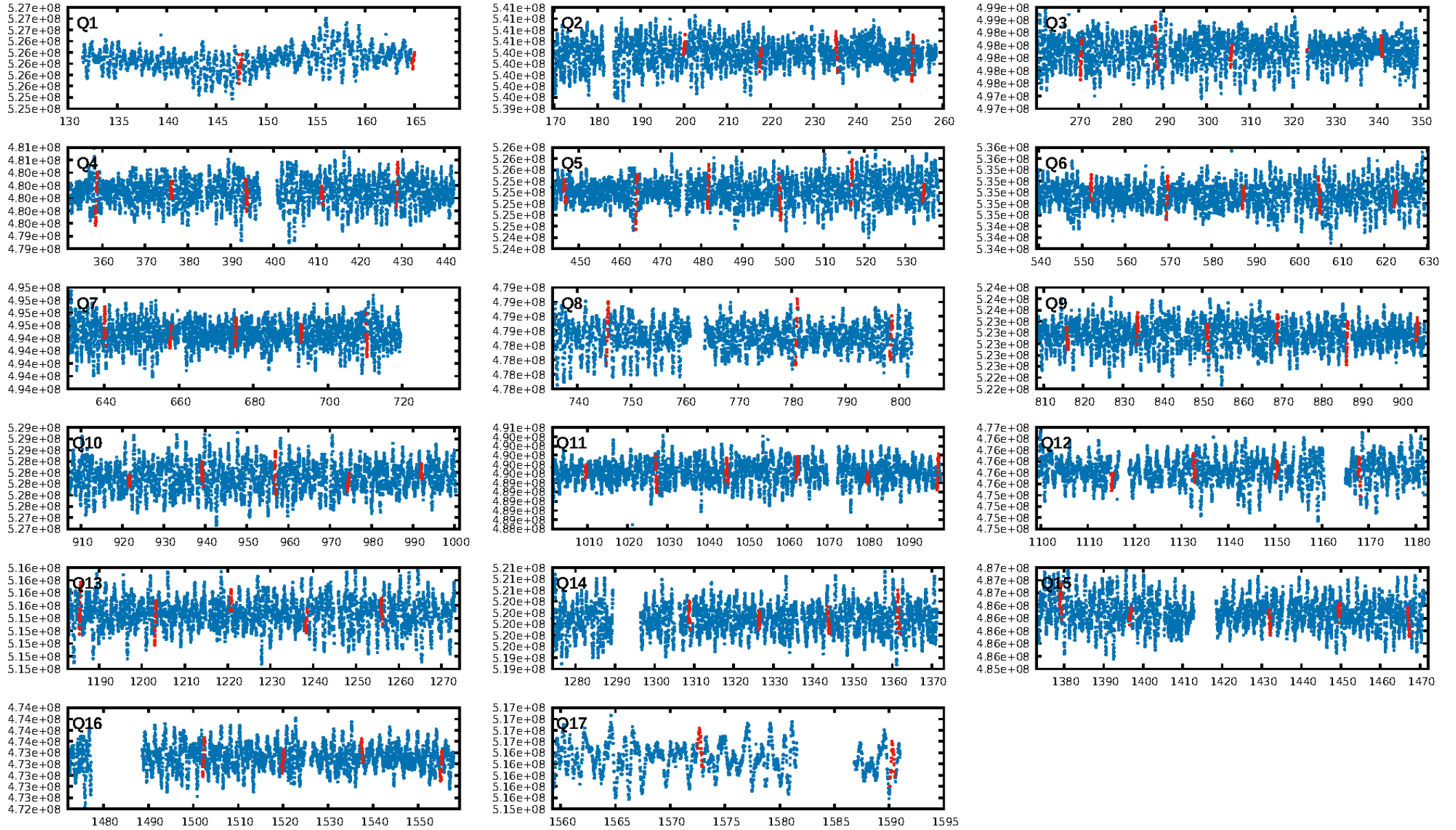
DV Fit Results:

Period = 17.59701 [0.00075] d
Epoch = 147.3577 [0.0129] BKJD
Rp/R* = 0.0138 [0.0466]
a/R* = 22.47 [431.52]
b = 0.38 [43.19]
Seff = 1184.80 [658.84]
Teq = 1496 [208] K
Rp = 5.80 [19.67] Re
a = 0.1696 [0.0579] AU
Ag = 93.30 [630.94] [0.15 σ]
Teffp = 7189 [12117] K [0.47 σ]

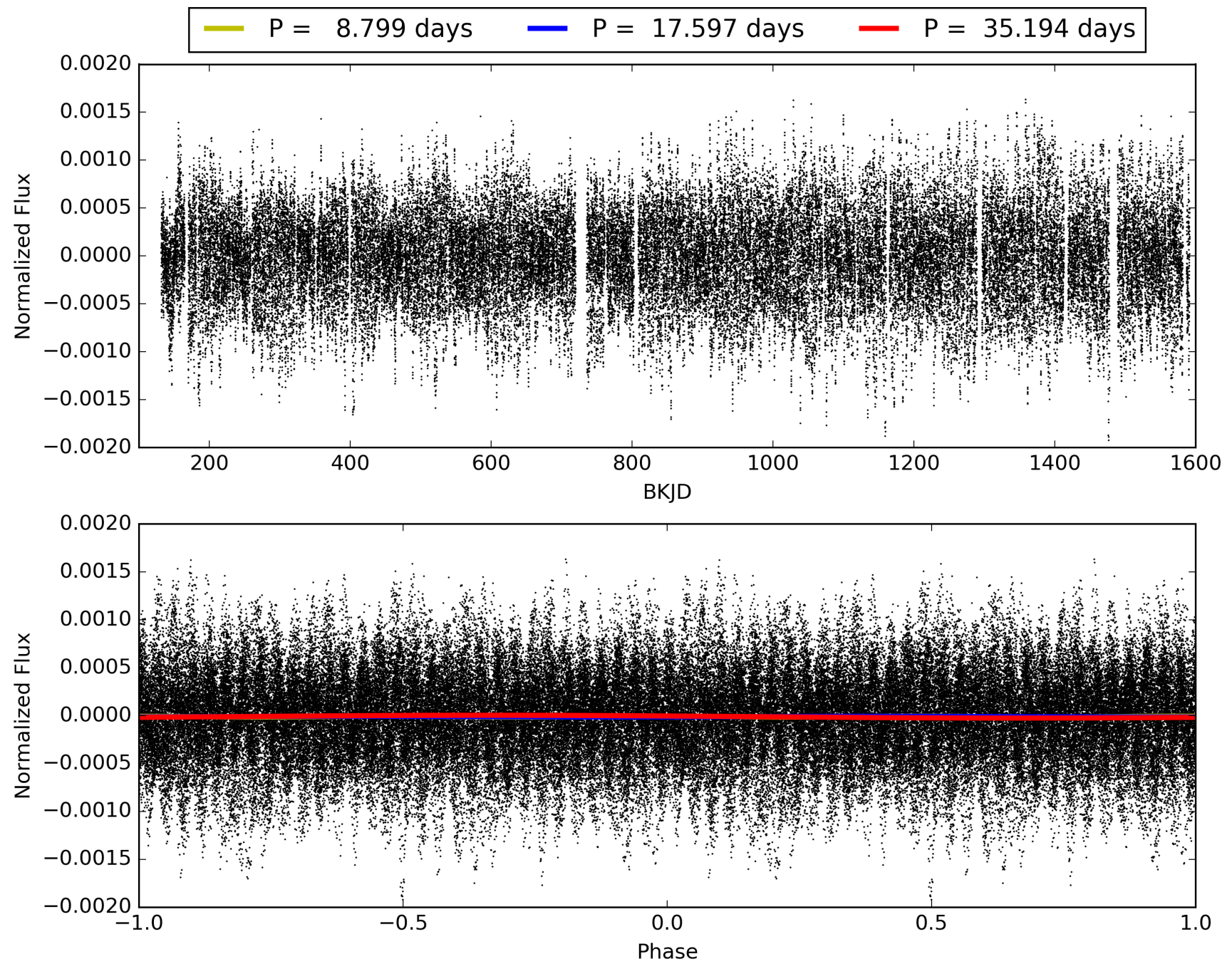
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [10.25 σ]
LongPeriod-sig: 100.0% [20.18 σ]
ModelChiSquare2-sig: 5.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -0.1017
Centroid-sig: 75.8%
Centroid-so: 0.010 arcsec [0.06 σ]
OotOffset-rm: 0.141 arcsec [0.41 σ]
KicOffset-rm: 0.146 arcsec [0.40 σ]
OotOffset-st: 4/3/4/5 [16]
KicOffset-st: 4/3/4/5 [16]
DiffImageQuality-fgm: 0.25 [4/16]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 011967758-06, PDC Light Curves

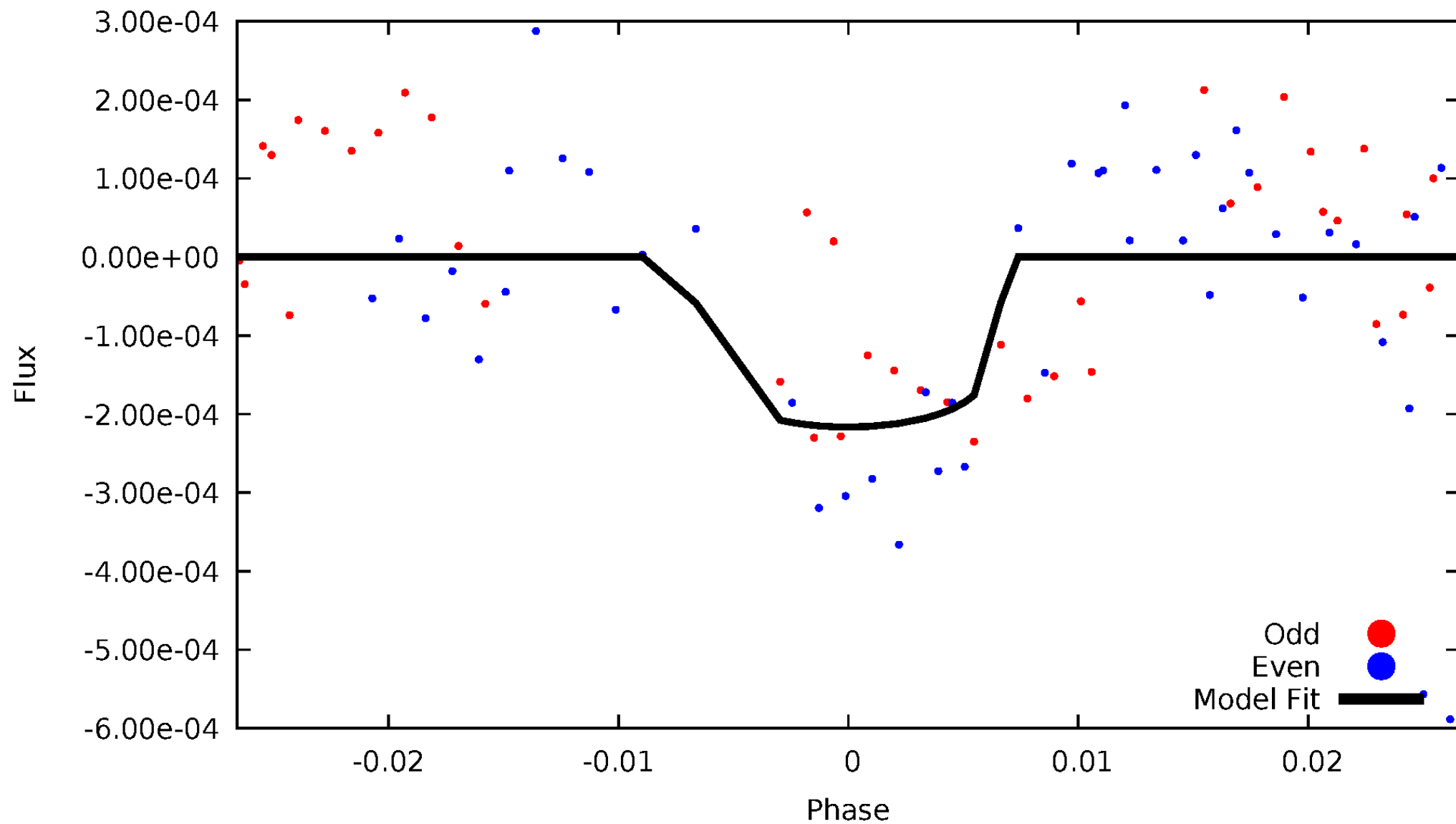


TCE 011967758-06



DV Odd/Even

TCE 011967758-06

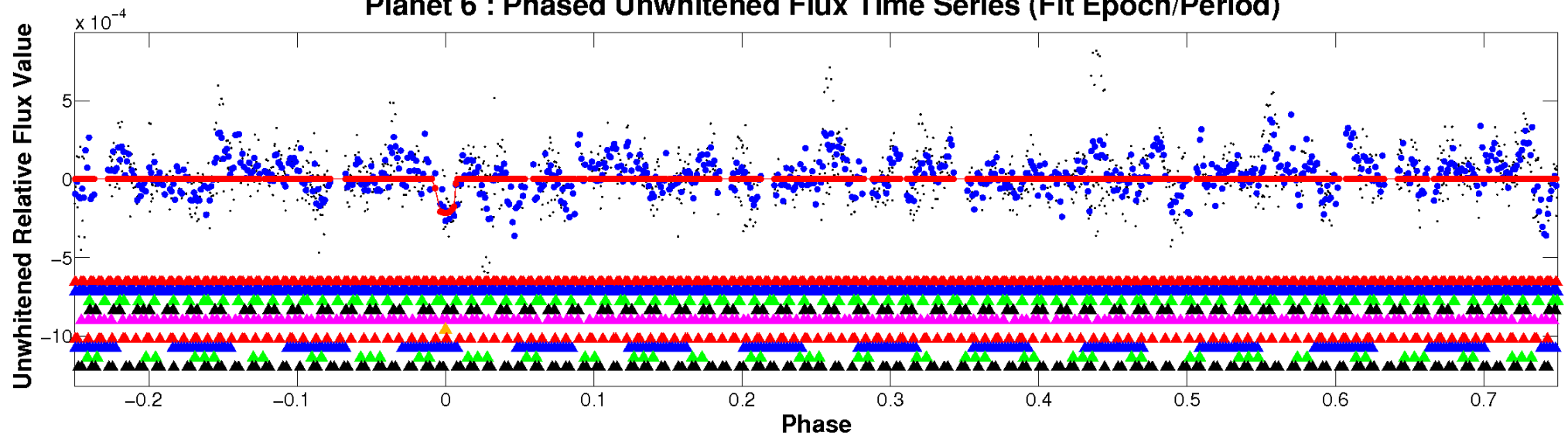


ALT Odd/Even

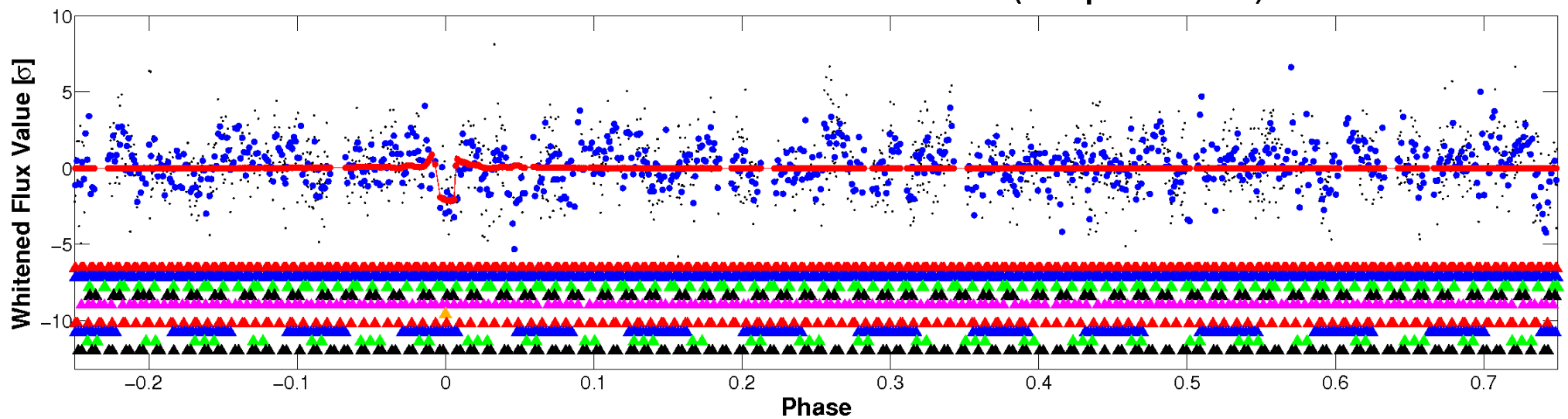
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

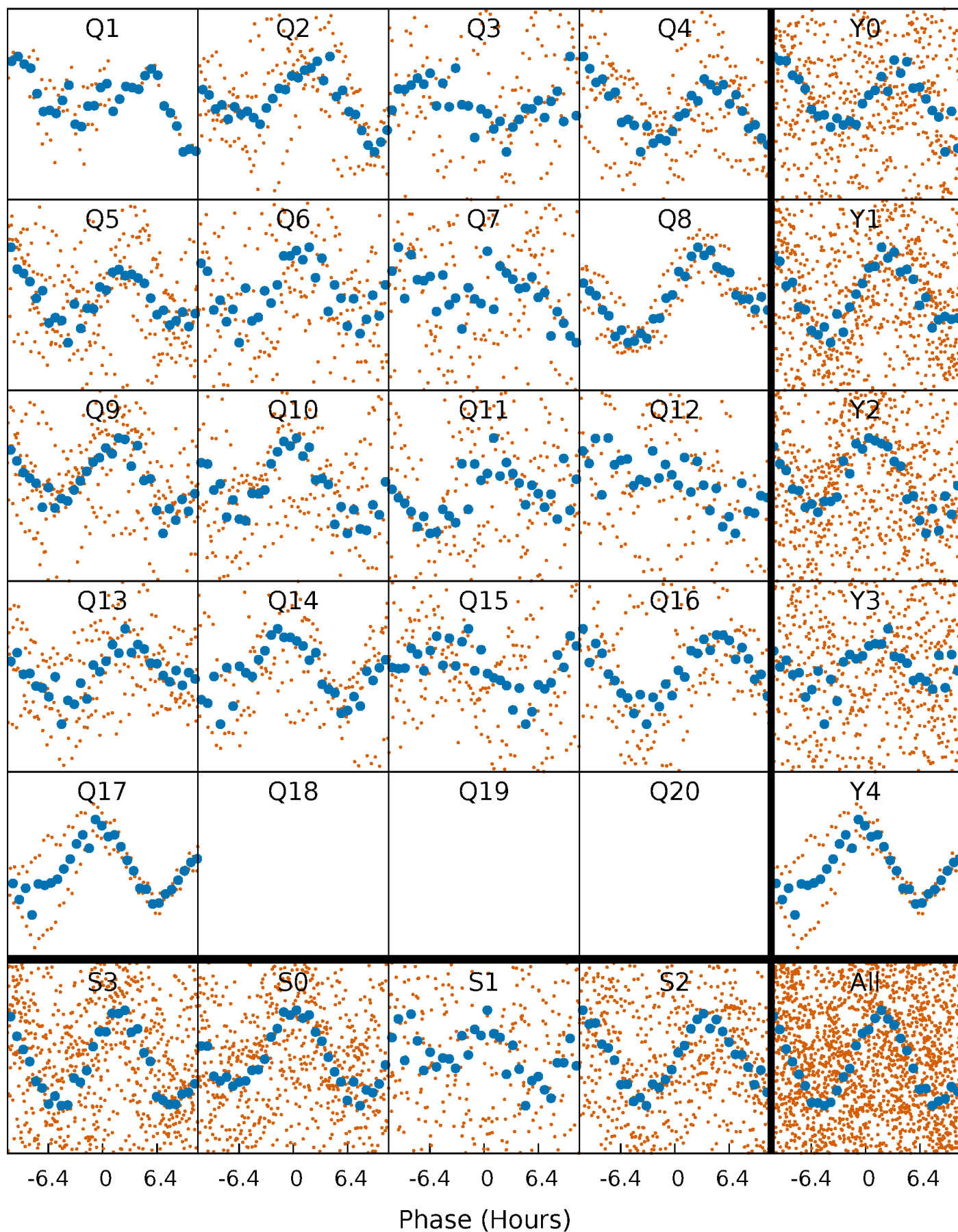


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



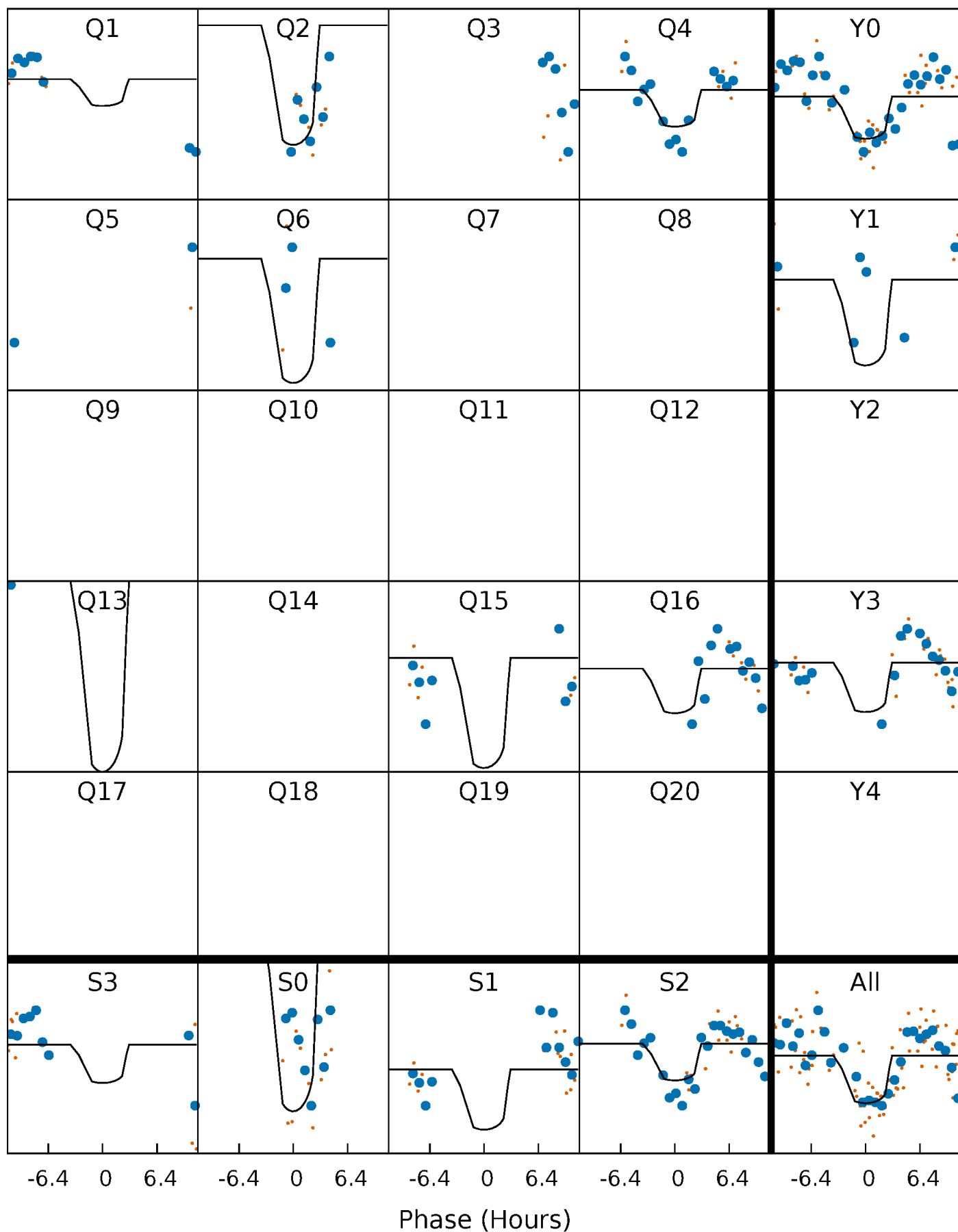
PDC Quarter-Phased Transit Curves

TCE 011967758-06 P= 17.597009 Days $T_0=147.357674$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-06 P= 17.597009 Days $T_0=147.357674$ (BKJD)

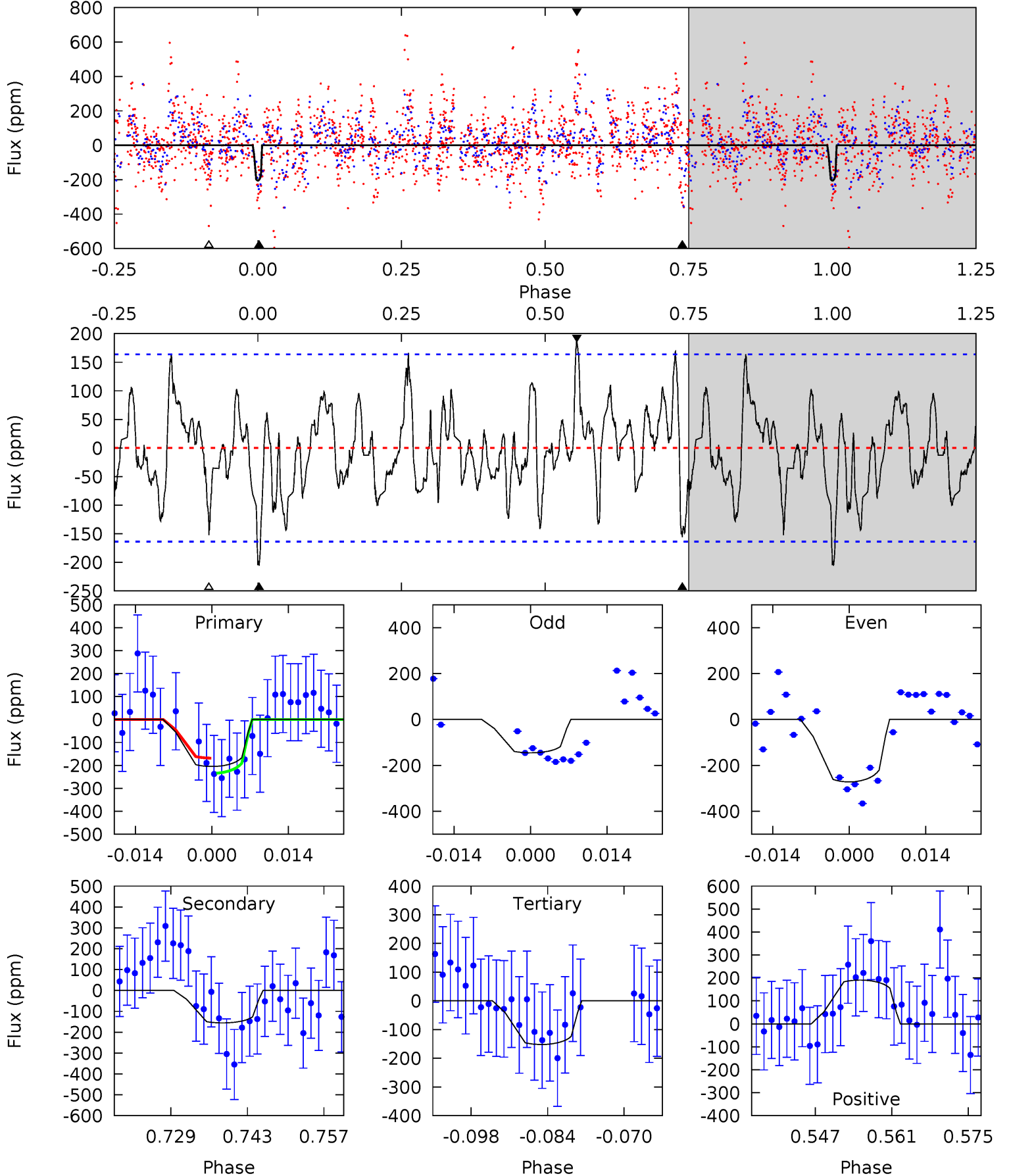


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-06, P = 17.597009 Days, E = 129.760665 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.21	4.72	4.61	5.77	4.96	2.46	1.90	1.60	0.43	0.11	-1.06	1.89	0.85	0.48	0.99



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-156 ± 33	$14.85^{+13.97}_{-9.88}$	2031^{+110}_{-178}	4232^{+2690}_{-914}	12^{+87}_{-9}
Alt.	N/A	N/A	N/A	N/A	N/A

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

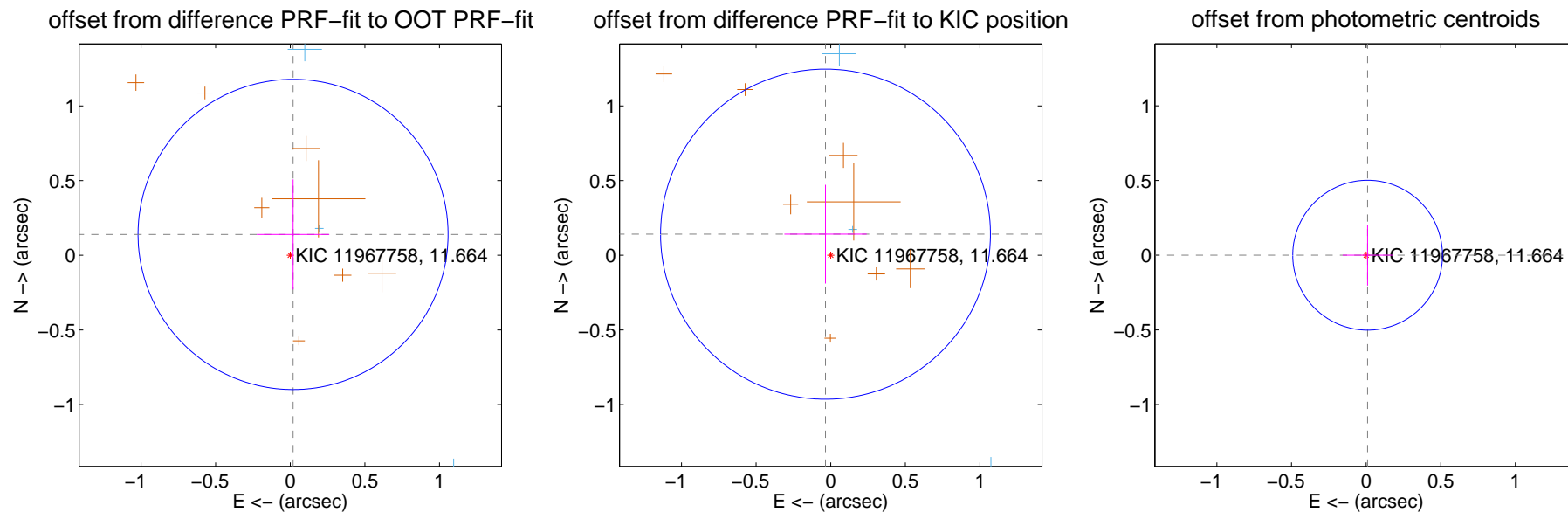
DV Centroid Data

Supplemental centroid analysis for 011967758-06. **Kepler magnitude: 11.66.** Transit SNR 9.11

There are 4 quarters with good PRF difference image offsets

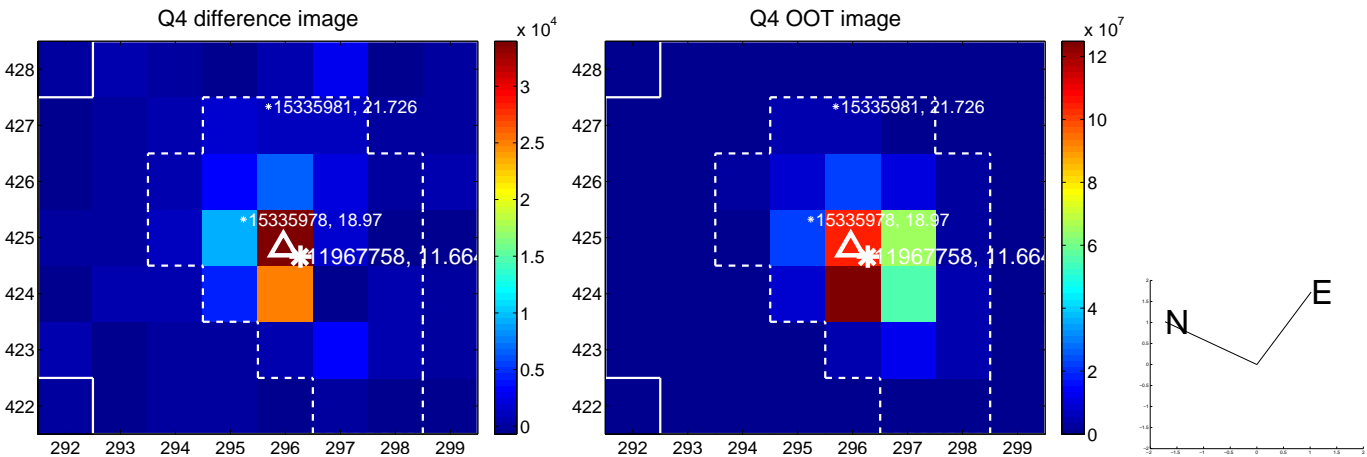
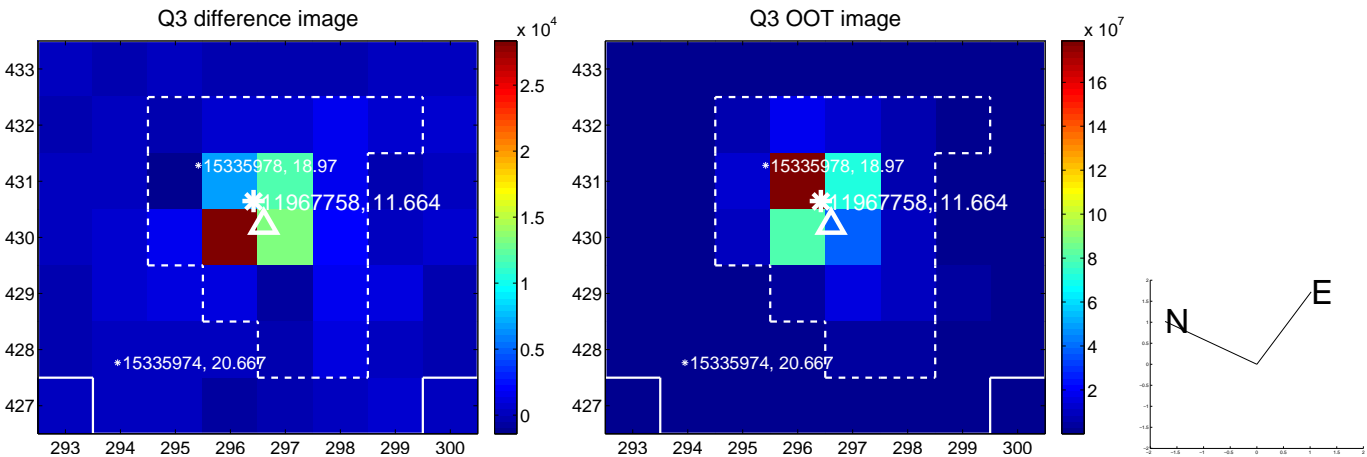
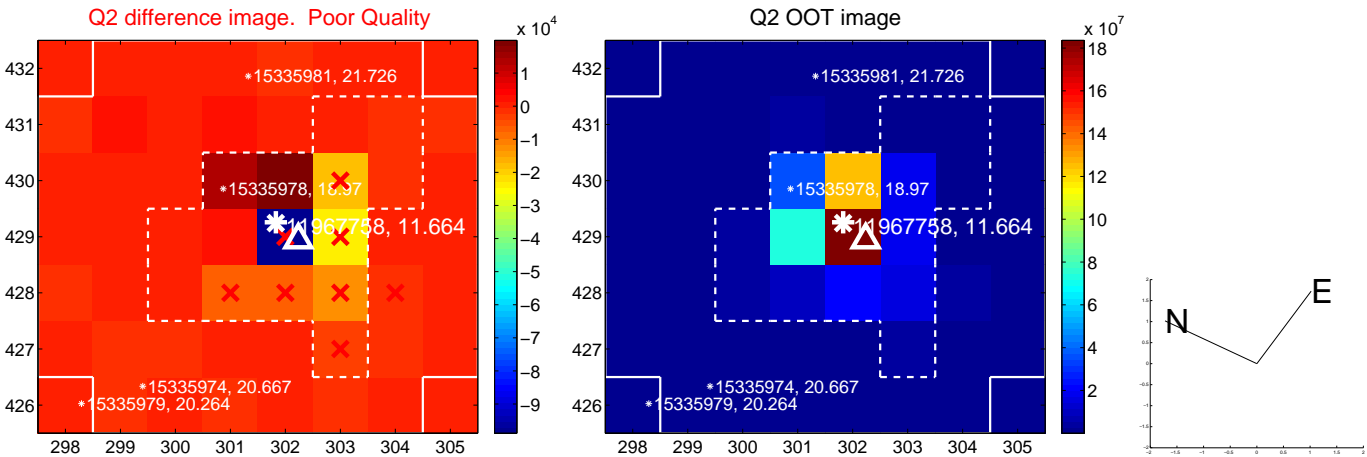
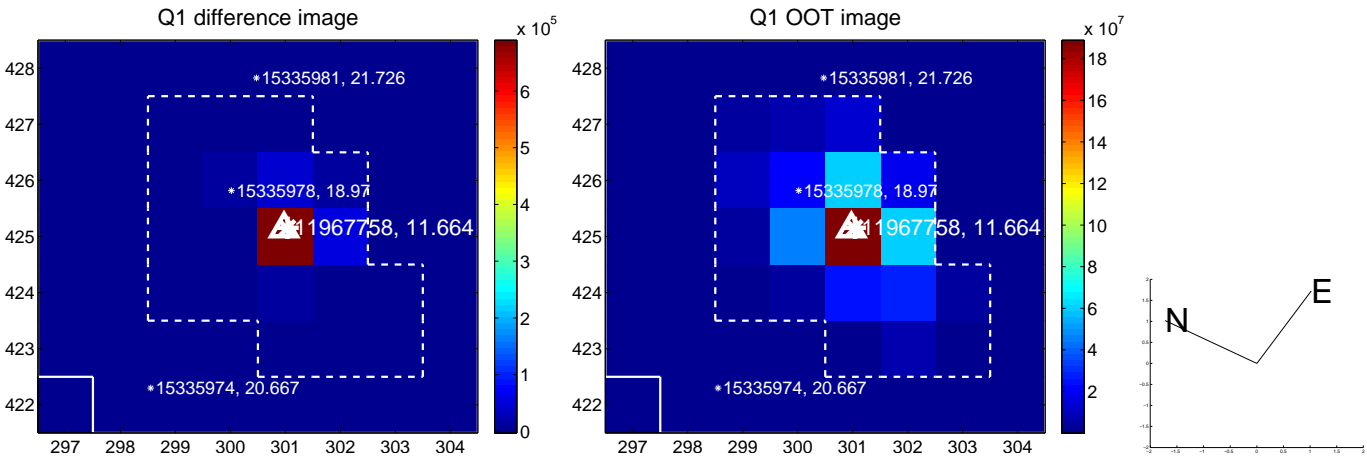
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.141 ± 0.346	0.41	-0.019 ± 0.243	0.140 ± 0.369
PRF-fit source offset from KIC position	0.146 ± 0.369	0.40	0.035 ± 0.276	0.141 ± 0.331
photometric centroid source offset	0.01 ± 0.17	0.06	-0.01 ± 0.17	0.00 ± 0.20

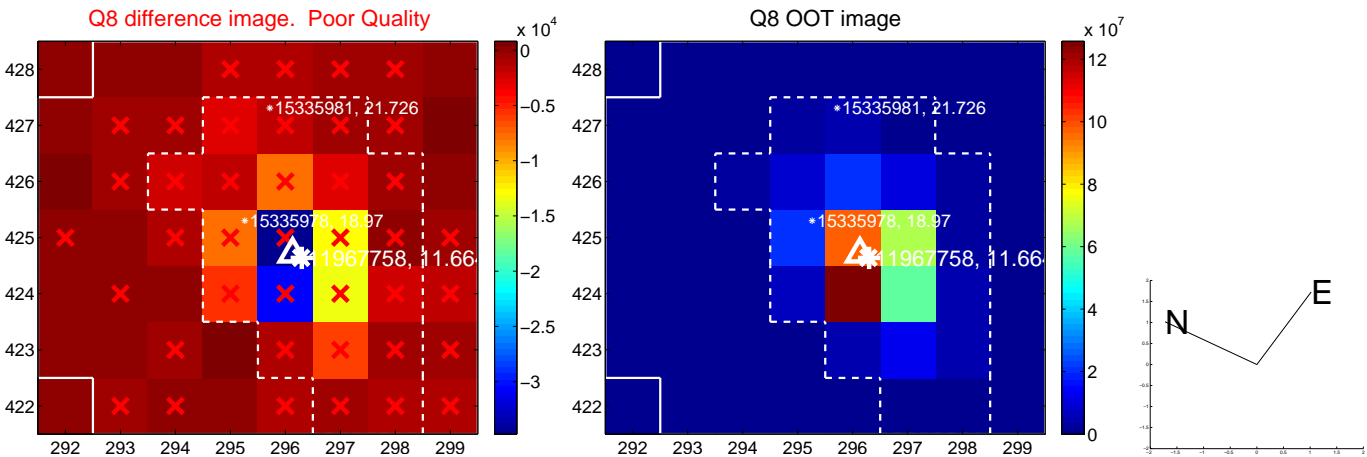
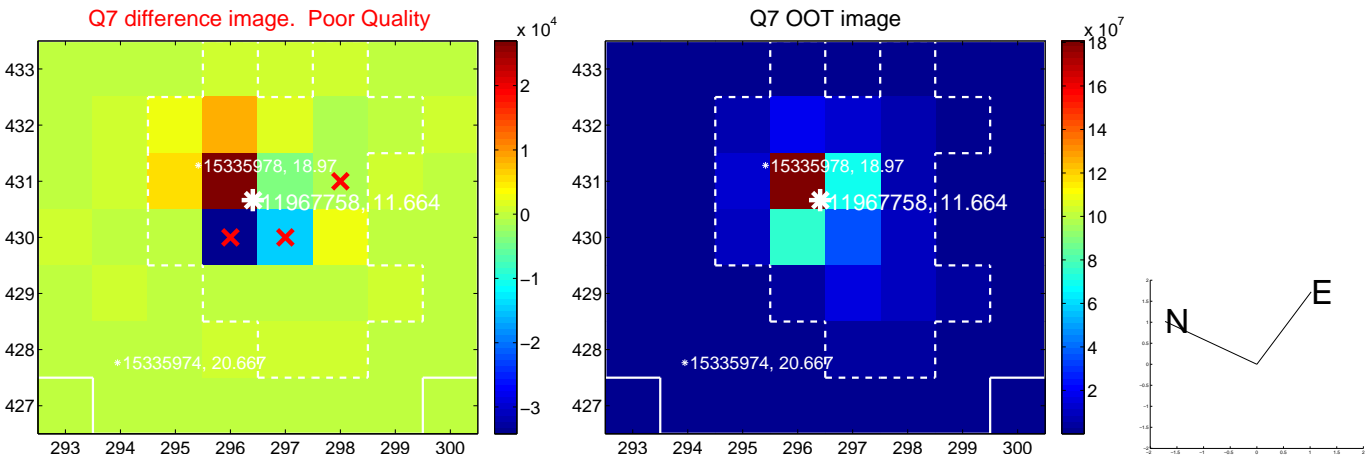
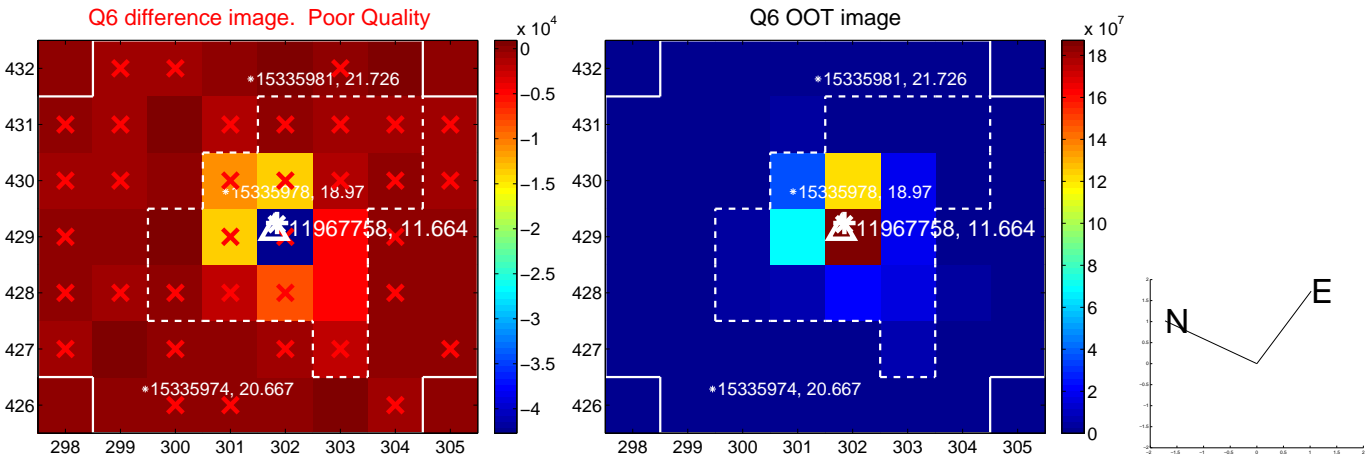
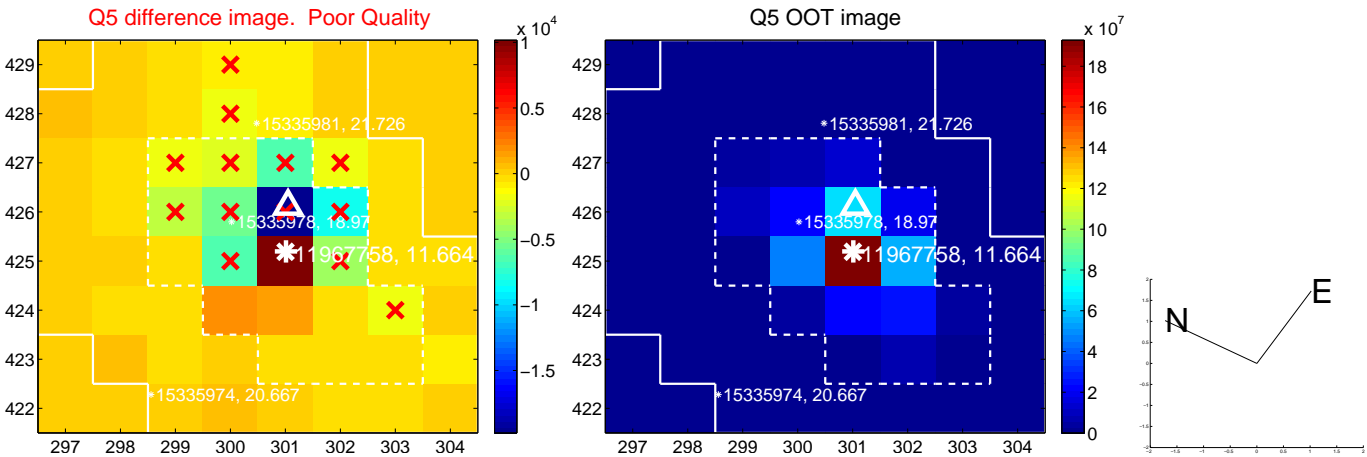


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

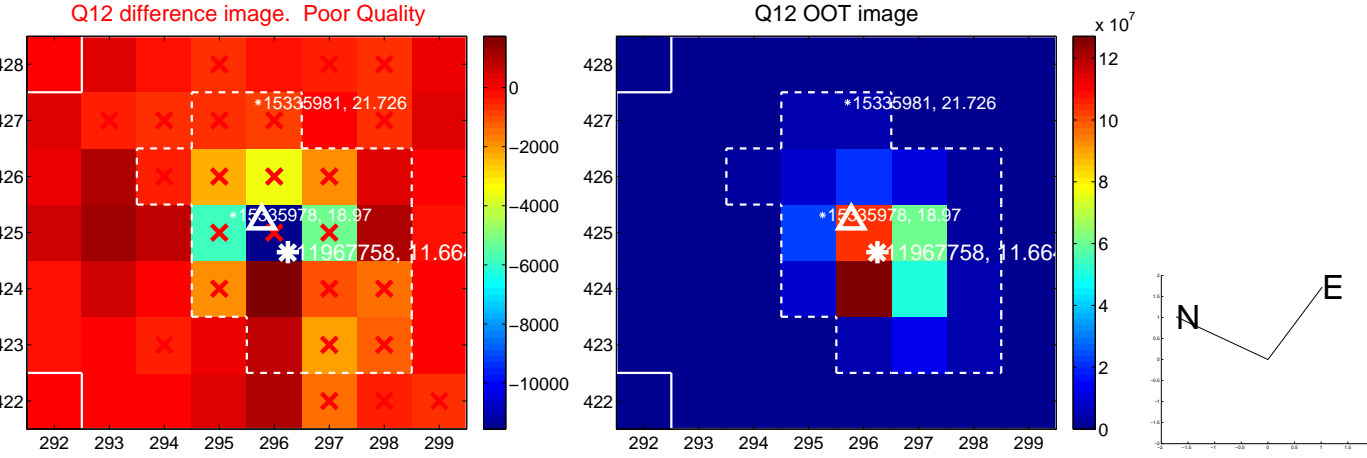
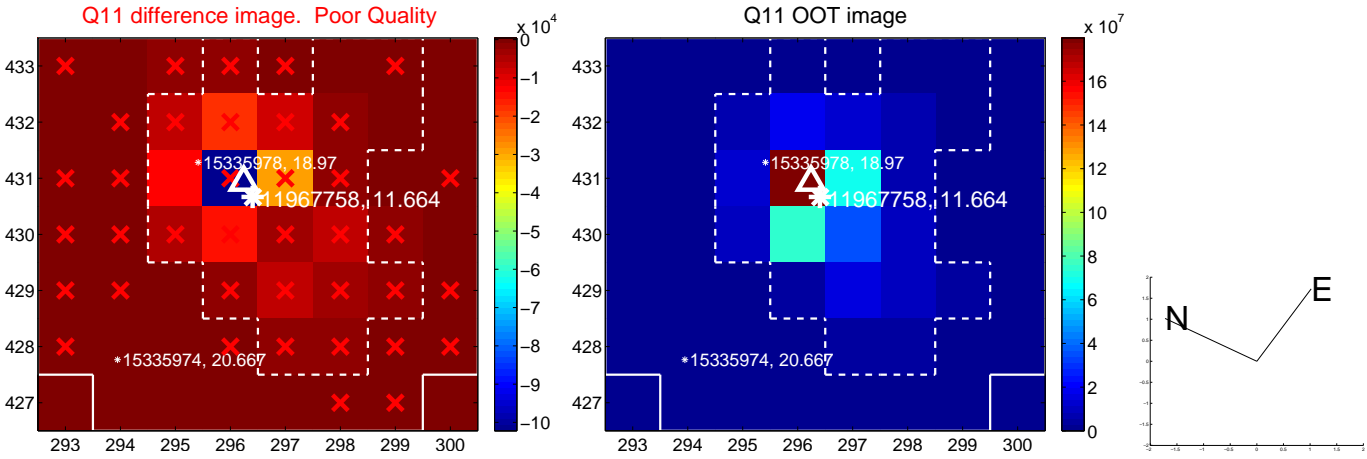
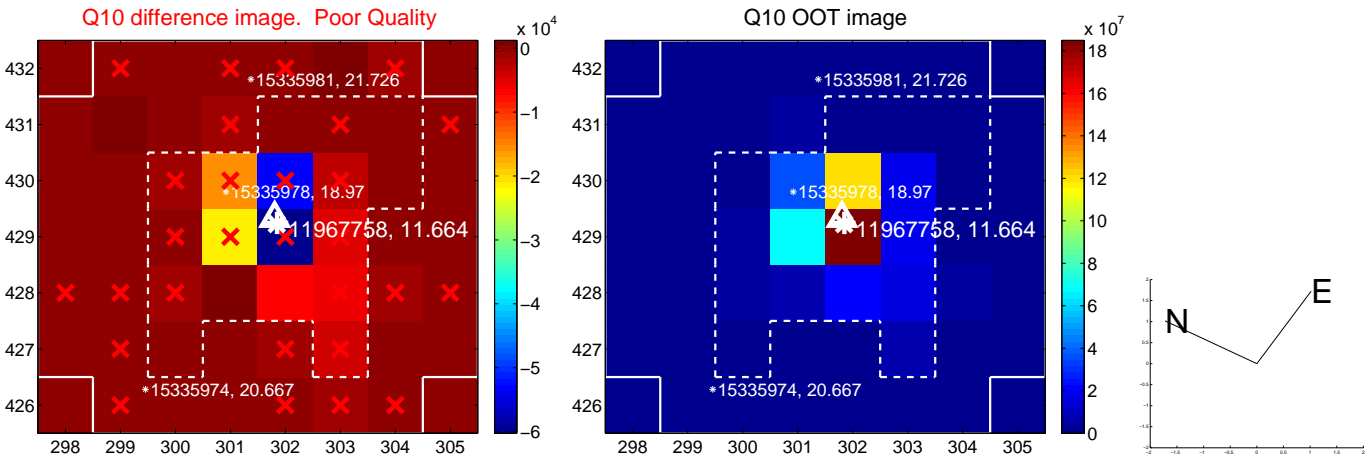
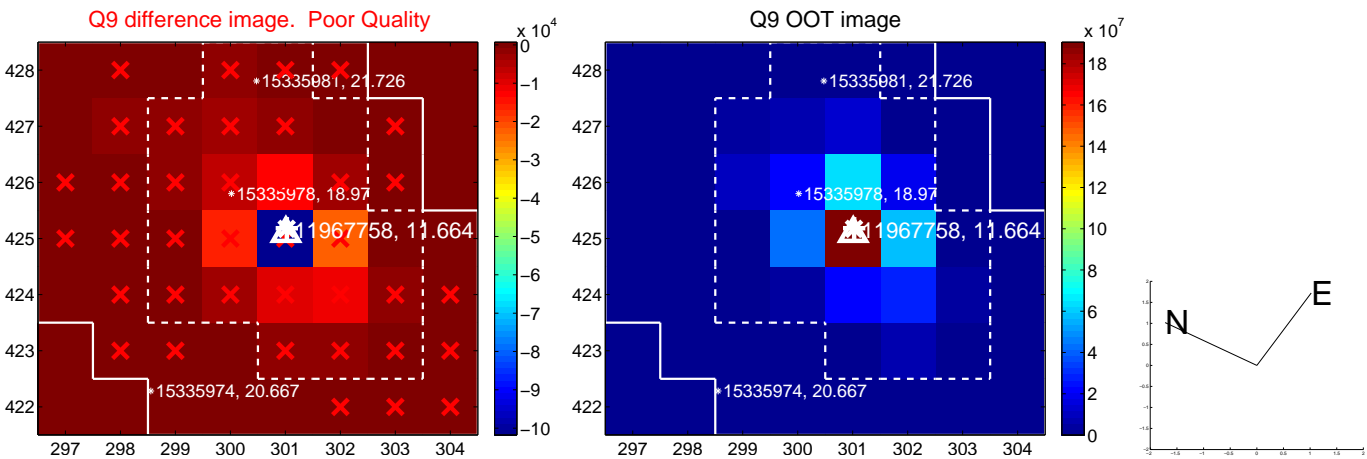
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



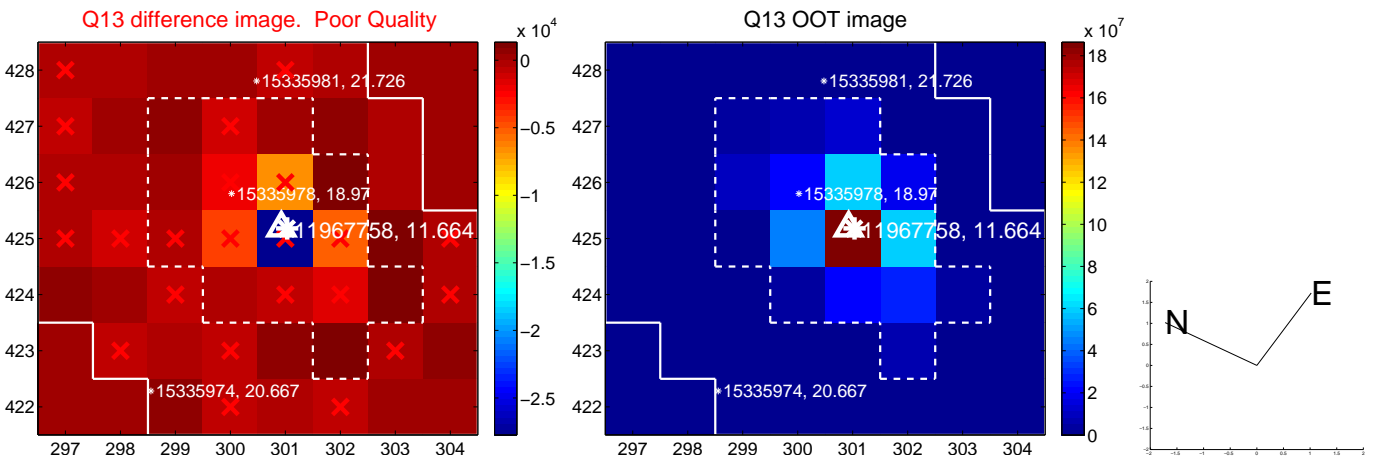
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



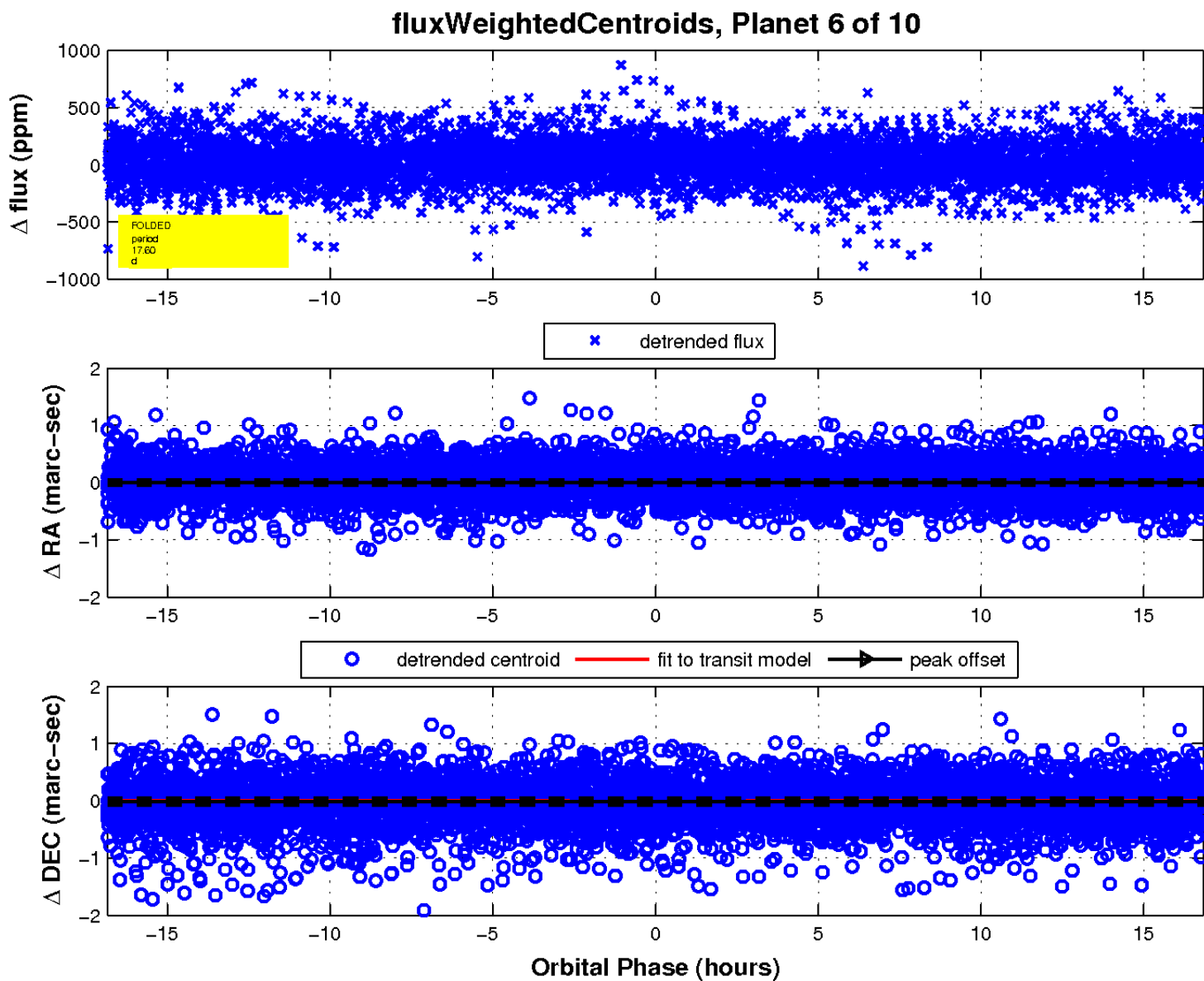
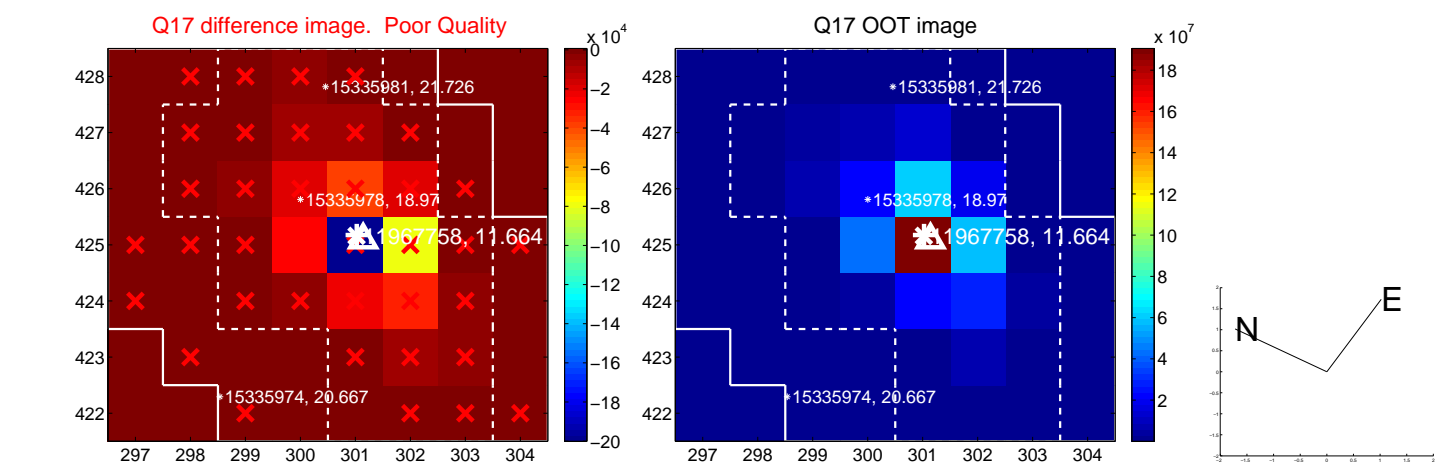
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

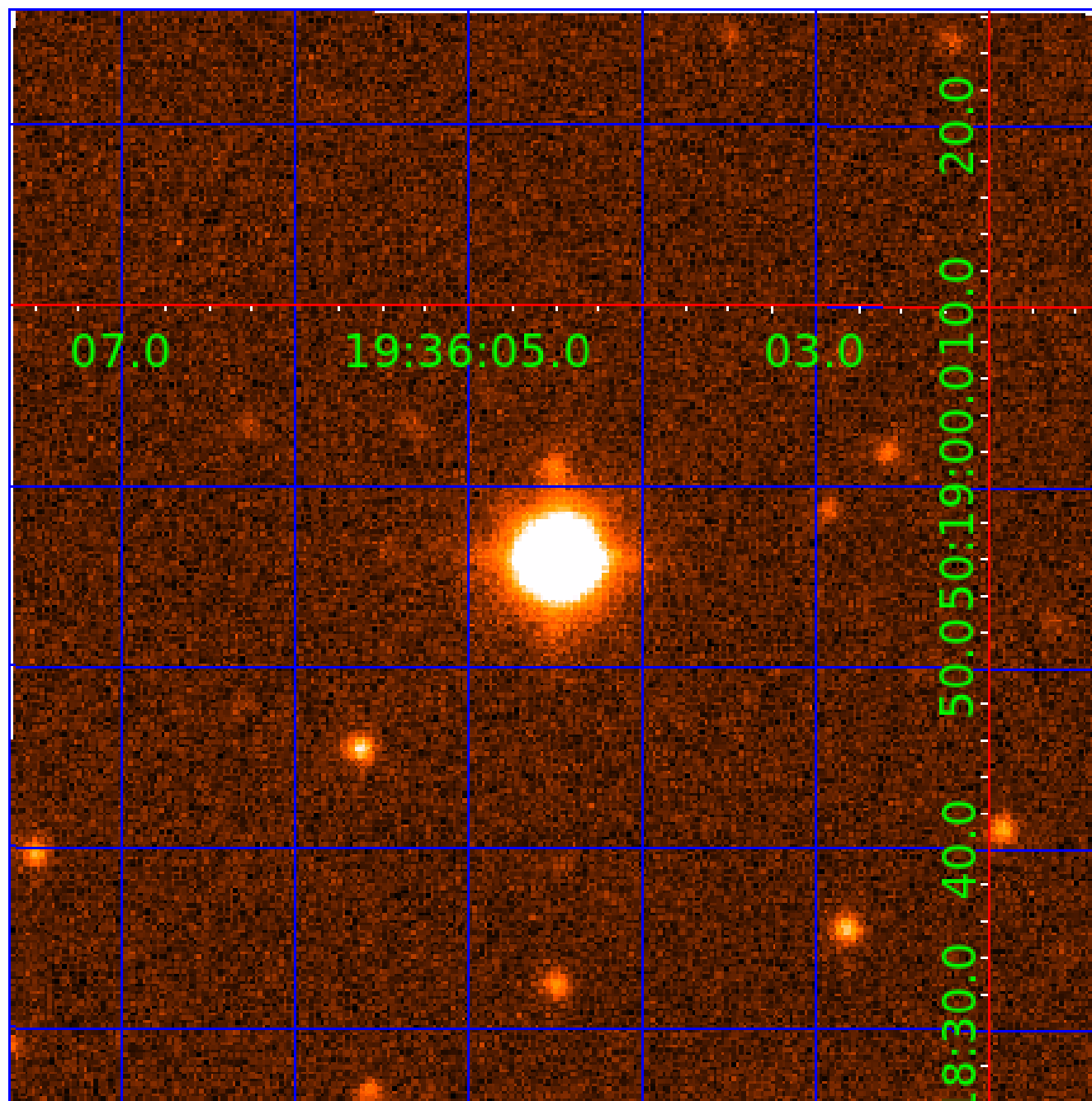


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

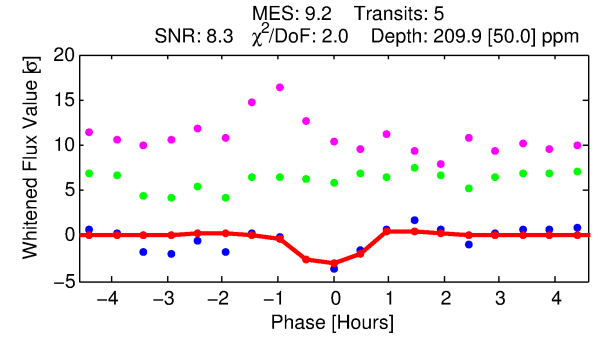
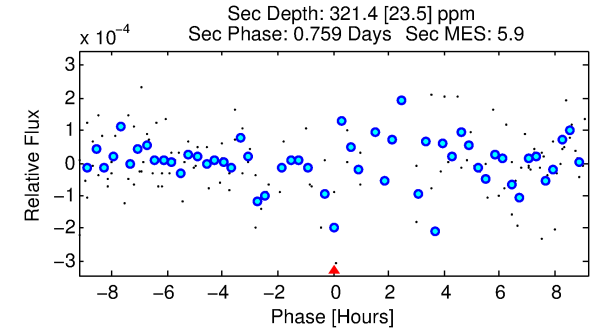
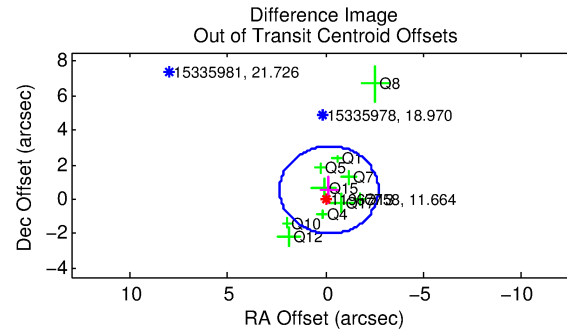
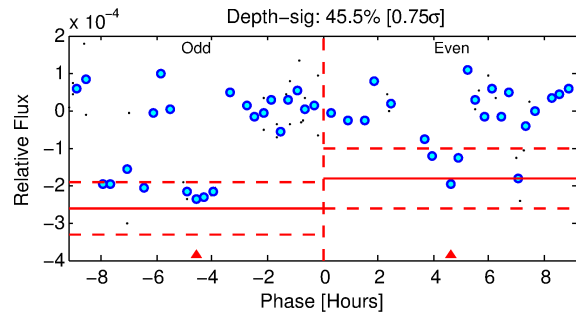
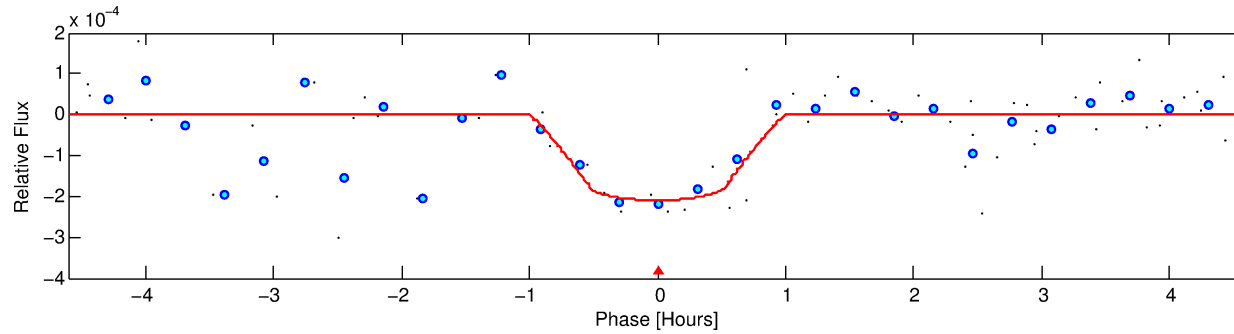
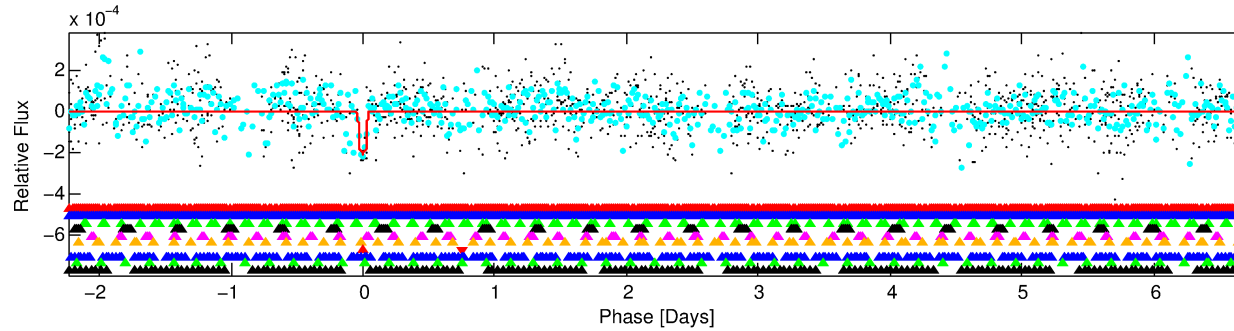
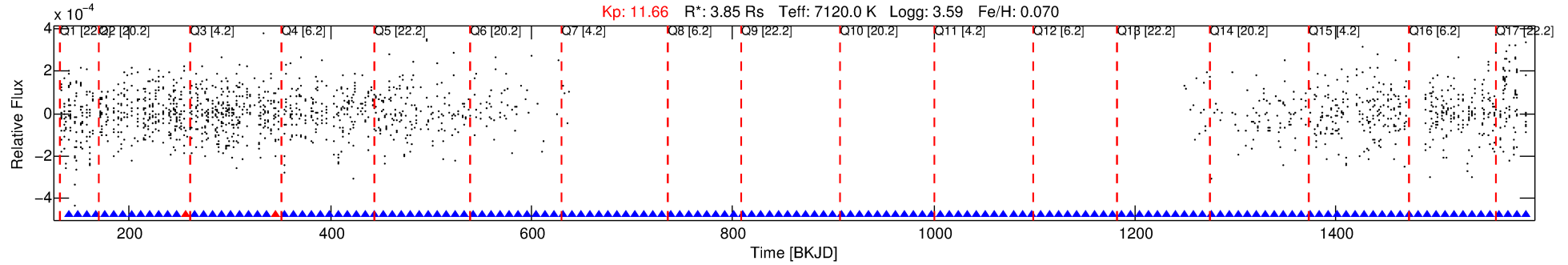
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-07

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 7 of 10 Period: 8.940 d



DV Fit Results:

Period = 8.94022 [0.00010] d
Epoch = 140.1546 [0.0055] BKJD
Rp/R* = 0.0135 [0.0221]
a/R* = 45.10 [429.14]
b = 0.01 [823.05]
Seff = 2922.57 [1625.17]
Teq = 1875 [261] K
Rp = 5.65 [9.49] Re
a = 0.1080 [0.0369] AU
Ag = 64.60 [214.71] [0.30 σ]
Teffp = 8218 [6743] K [0.94 σ]

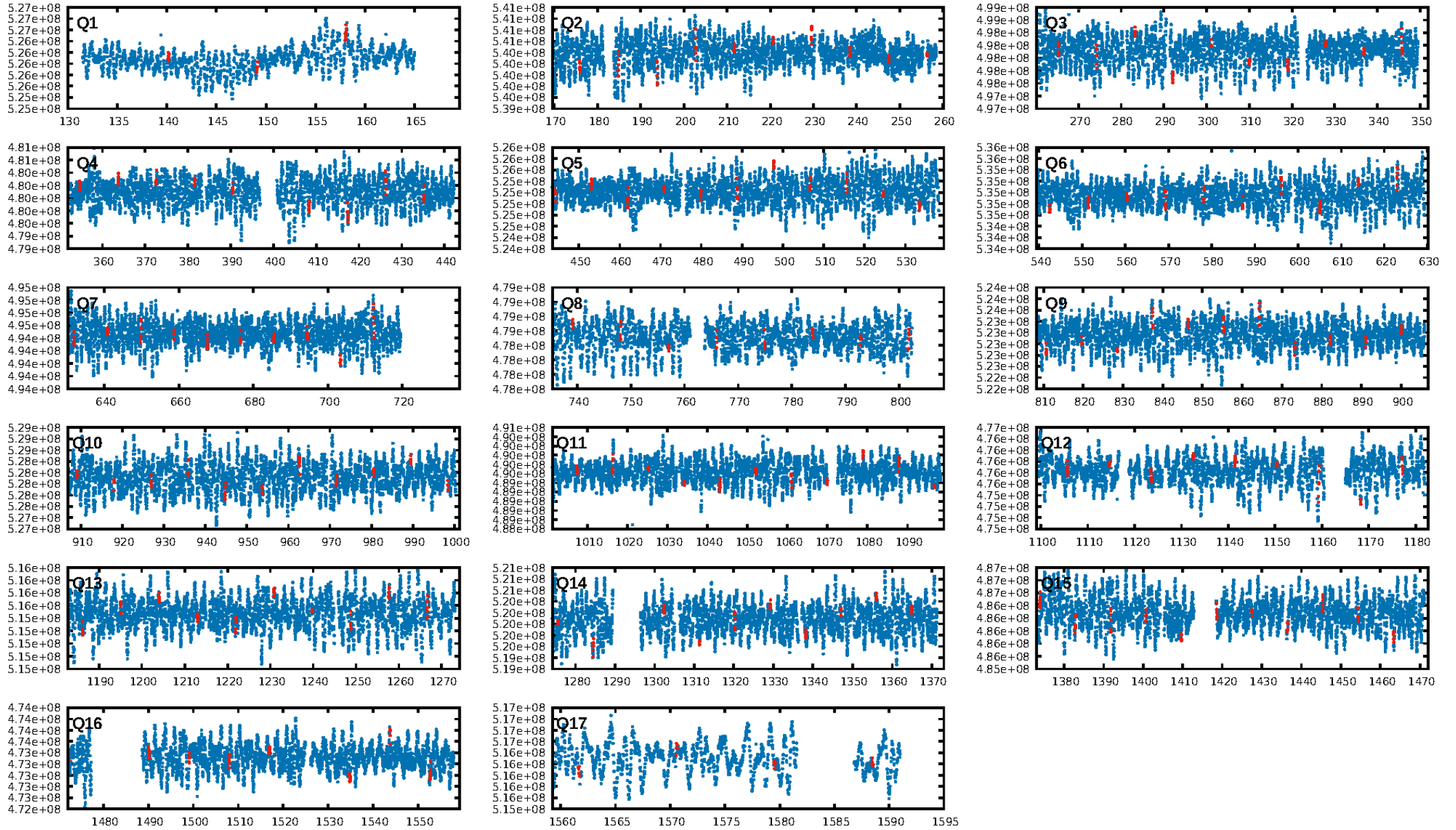
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [9.95 σ]
LongPeriod-sig: 100.0% [17.29 σ]
ModelChiSquare2-sig: 5.8%
ModelChiSquareGof-sig: 96.6%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.60 [3/5]
GhostDiagnostic-chr: -0.7795
Centroid-sig: 25.6%
Centroid-so: 0.266 arcsec [1.31 σ]
OotOffset-rm: 0.567 arcsec [0.67 σ]
OotOffset-st: 1/2/3/4 [10]
KicOffset-rm: 0.542 arcsec [0.67 σ]
KicOffset-st: 1/2/3/4 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 0.59 [10/17]

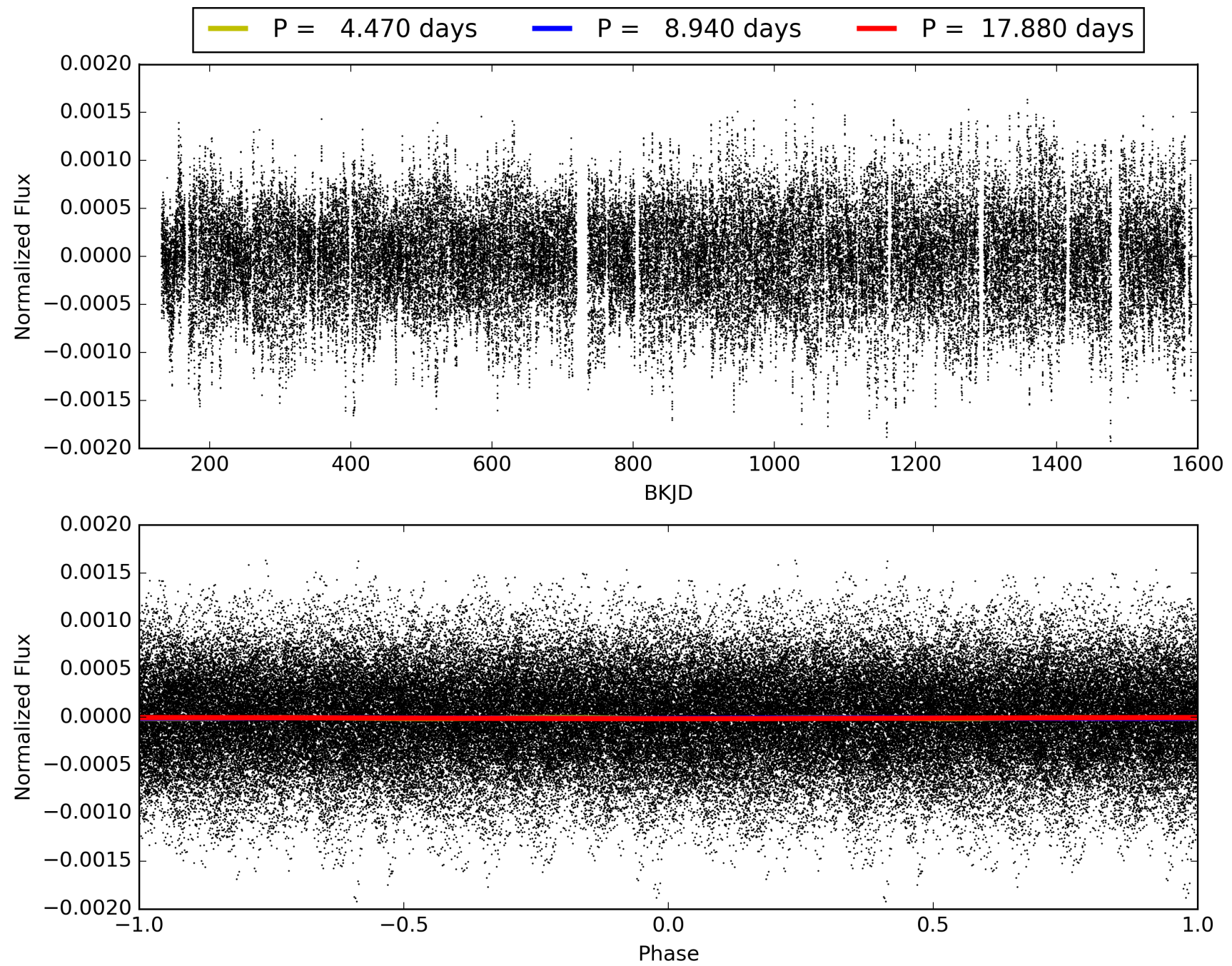
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:15:31 Z

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

TCE 011967758-07, PDC Light Curves

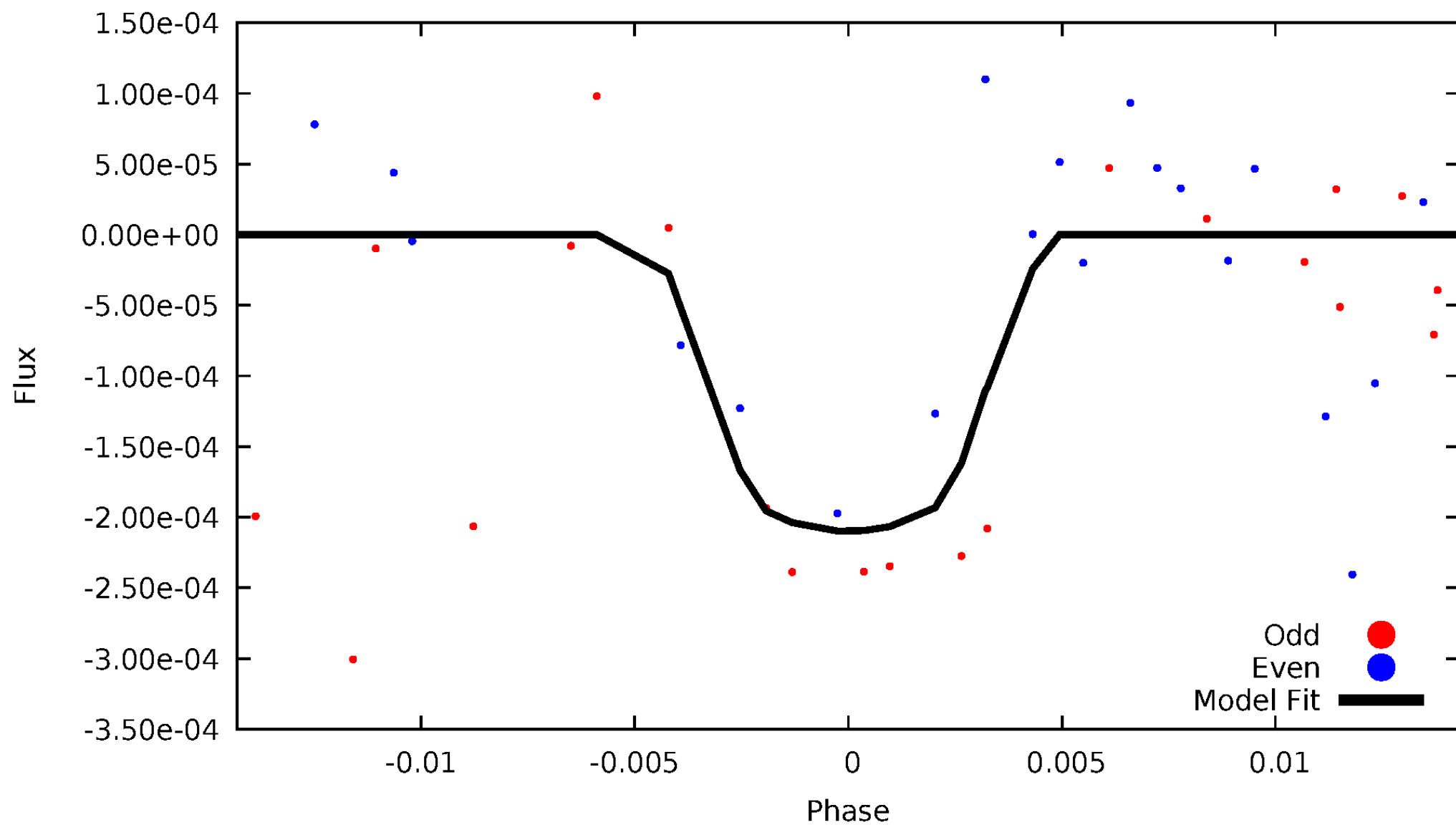


TCE 011967758-07



DV Odd/Even

TCE 011967758-07

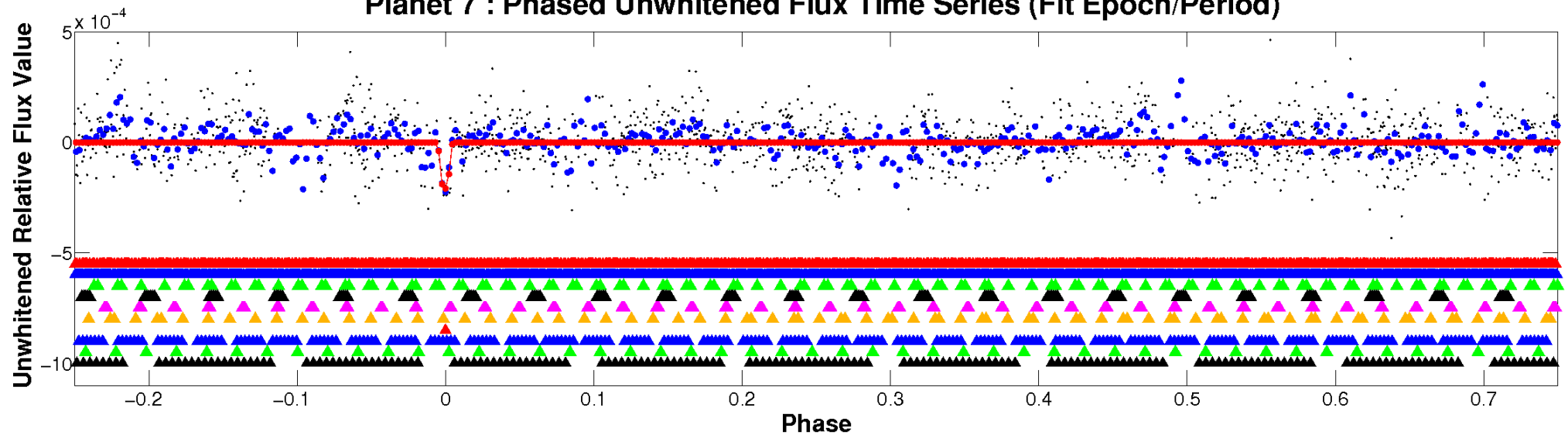


ALT Odd/Even

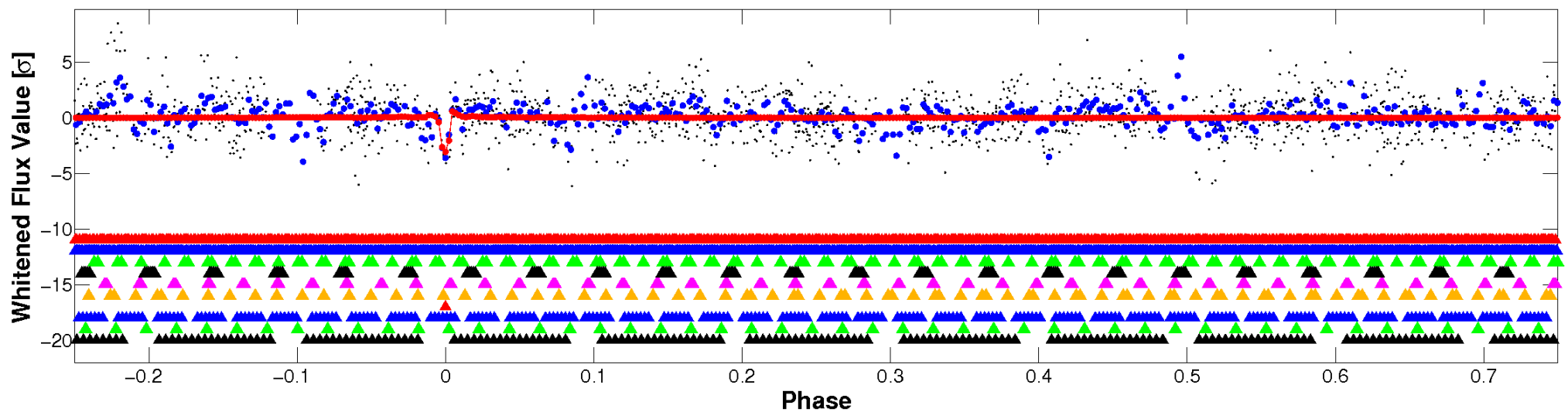
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

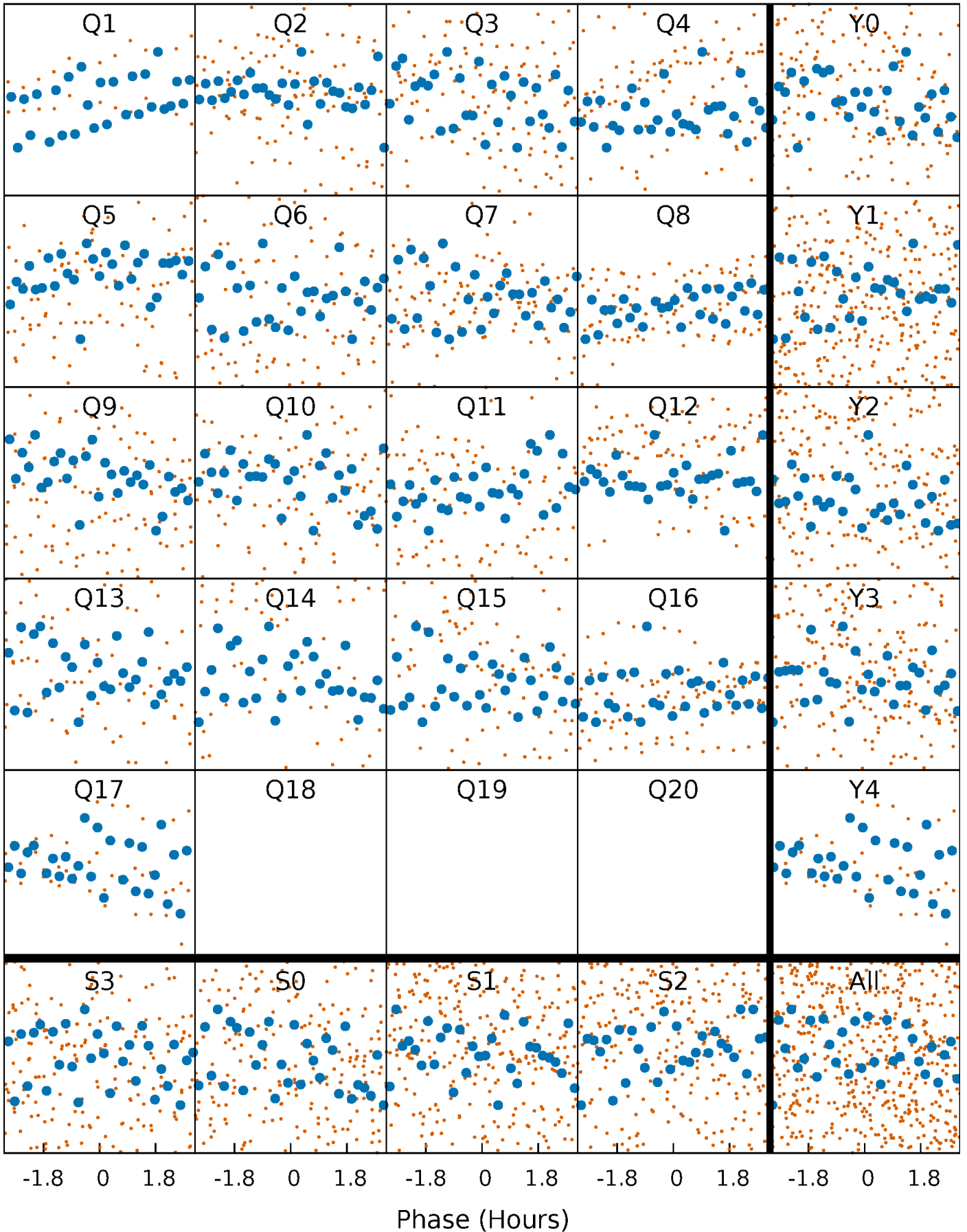


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



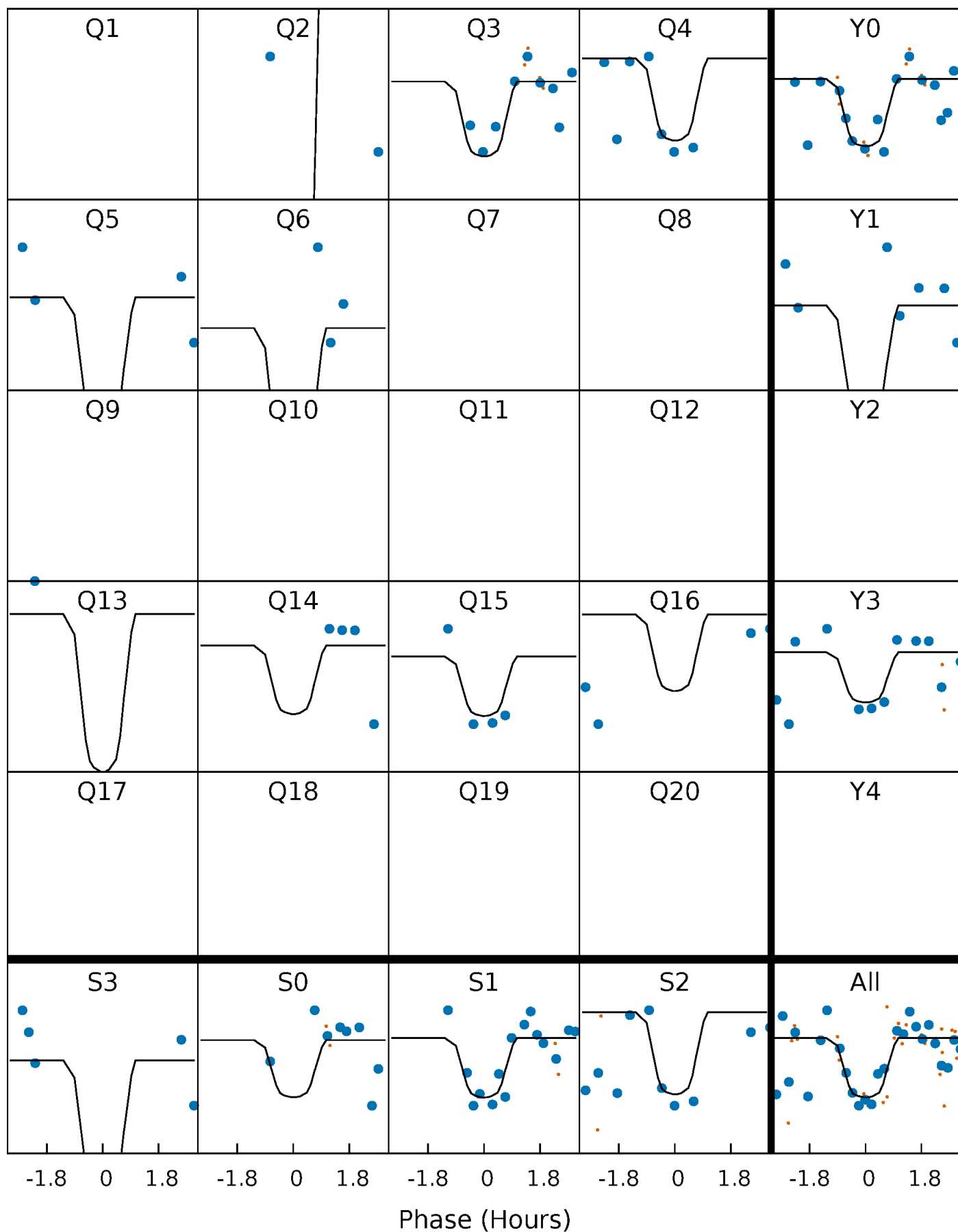
PDC Quarter-Phased Transit Curves

TCE 011967758-07 P= 8.940224 Days $T_0=140.154598$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-07 P= 8.940224 Days $T_0=140.154598$ (BKJD)

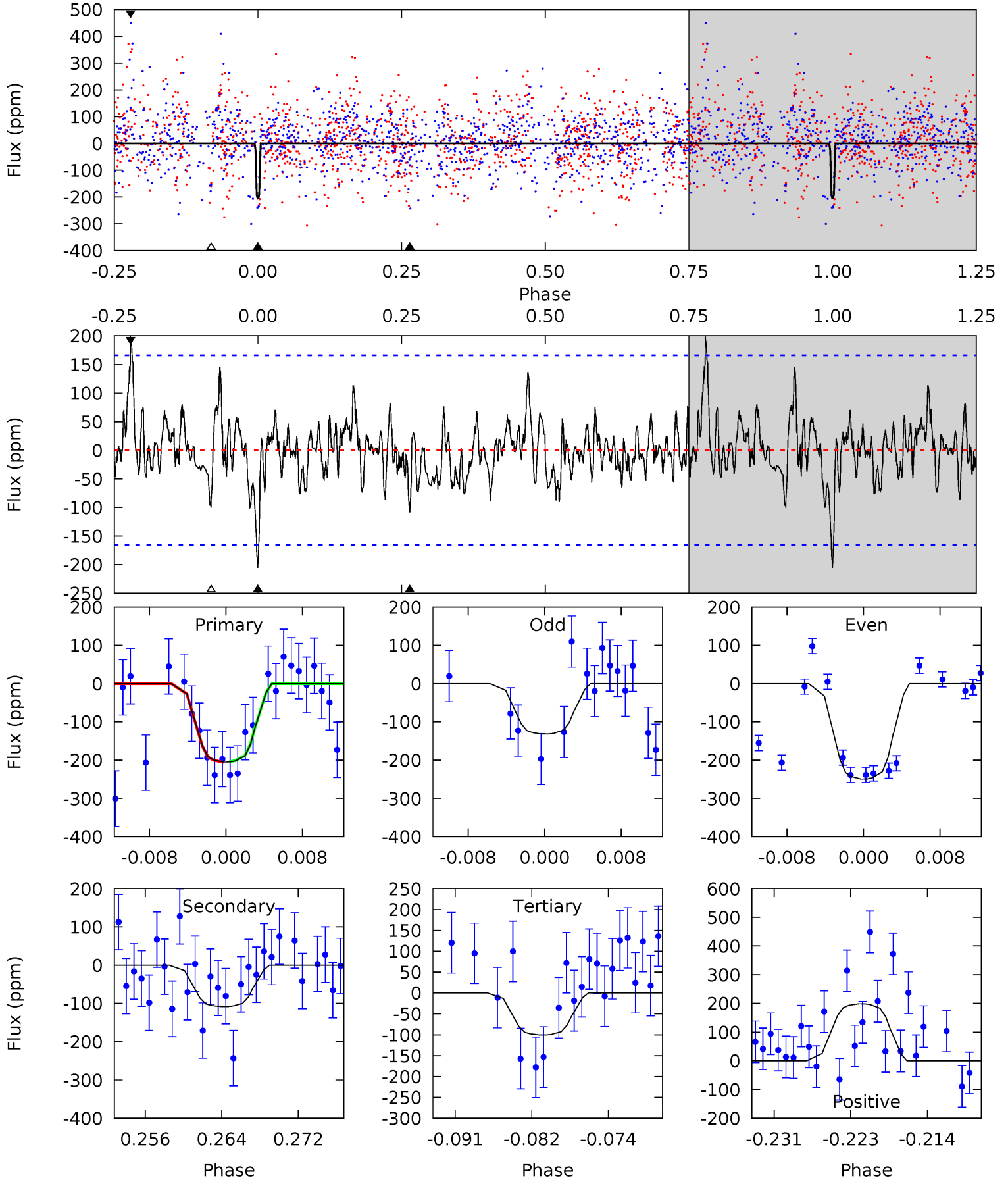


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-07, P = 8.940224 Days, E = 131.214374 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.27	3.31	3.07	6.07	5.06	2.64	1.28	3.20	0.19	0.24	-2.76	1.76	0.93	0.49	0.03



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-108 ± 33	$8.24^{+7.55}_{-5.38}$	2549^{+135}_{-232}	5016^{+3328}_{-1165}	$9.996^{+61.983}_{-7.336}$
Alt.	N/A	N/A	N/A	N/A	N/A

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

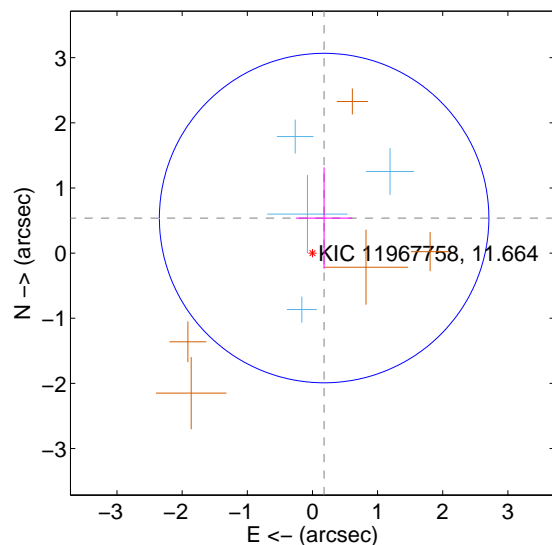
Supplemental centroid analysis for 011967758-07. **Kepler magnitude: 11.66.** Transit SNR 8.34

There are 4 quarters with good PRF difference image offsets

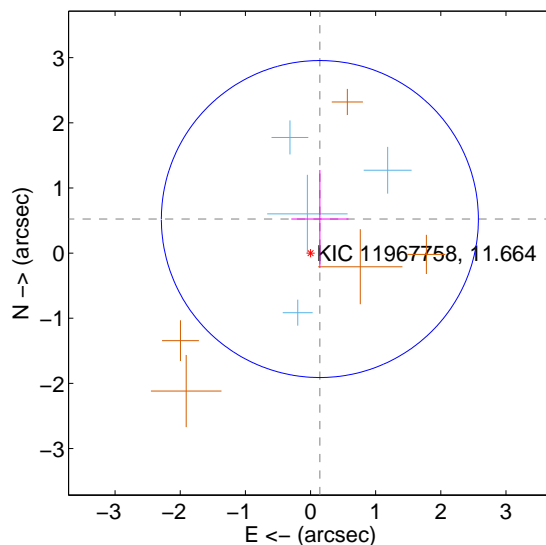
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.567 ± 0.843	0.67	-0.179 ± 0.432	0.538 ± 0.778
PRF-fit source offset from KIC position	0.542 ± 0.811	0.67	-0.144 ± 0.439	0.523 ± 0.753
photometric centroid source offset	0.27 ± 0.20	1.31	0.27 ± 0.20	0.02 ± 0.24

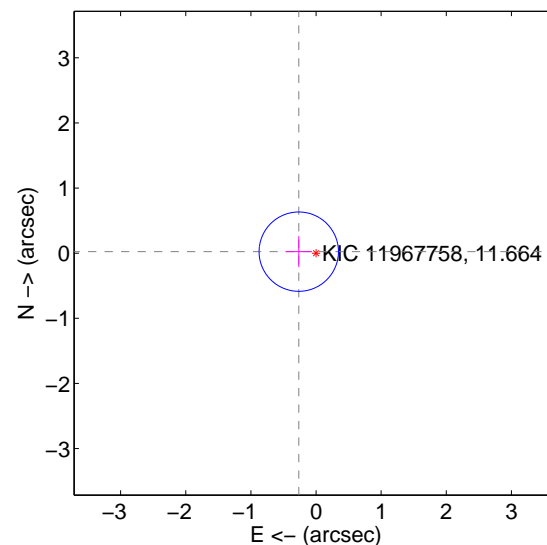
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

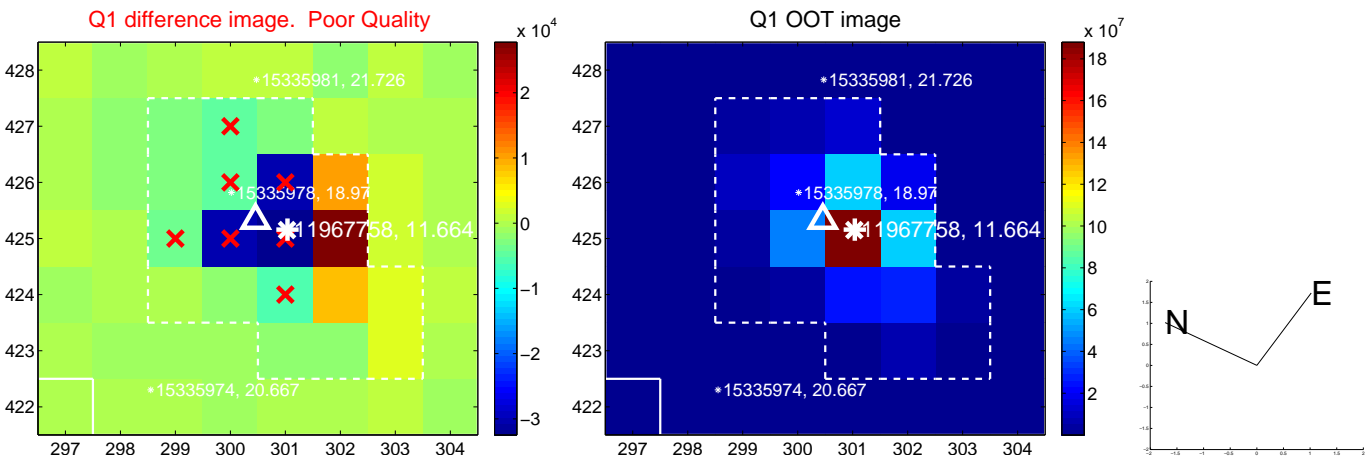


offset from photometric centroids

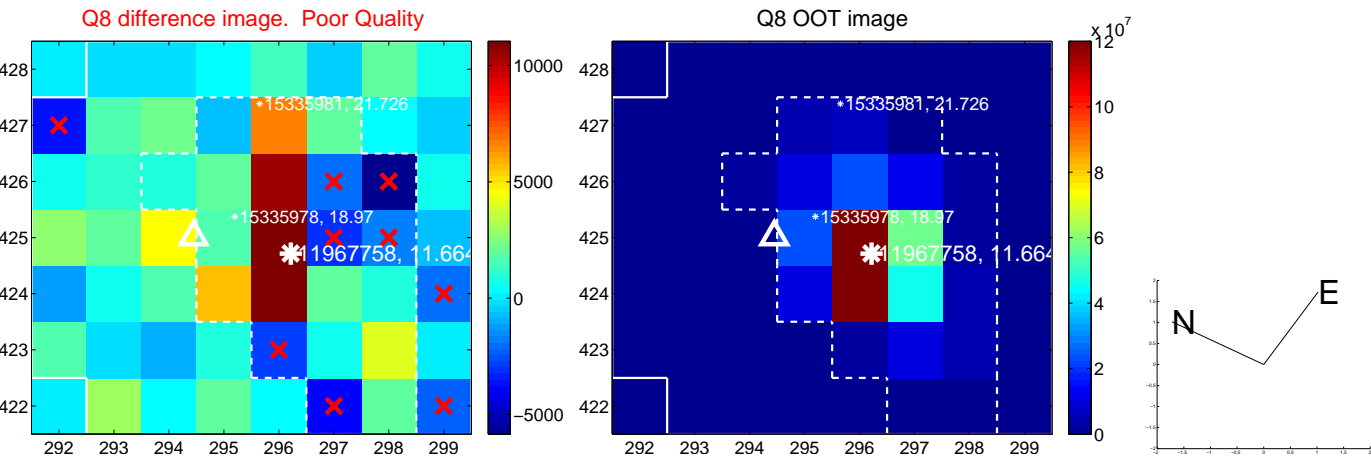
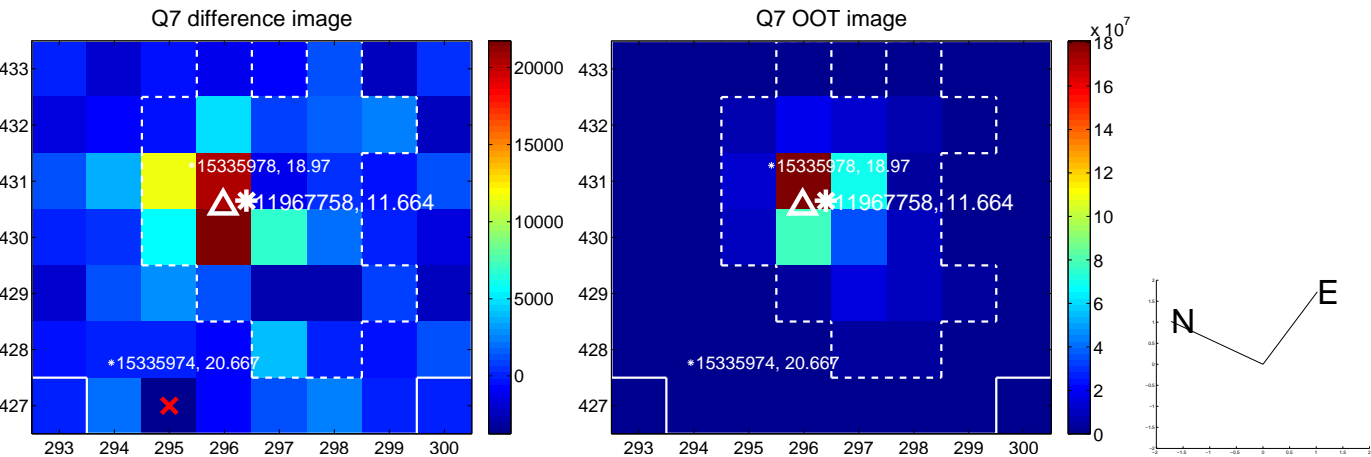
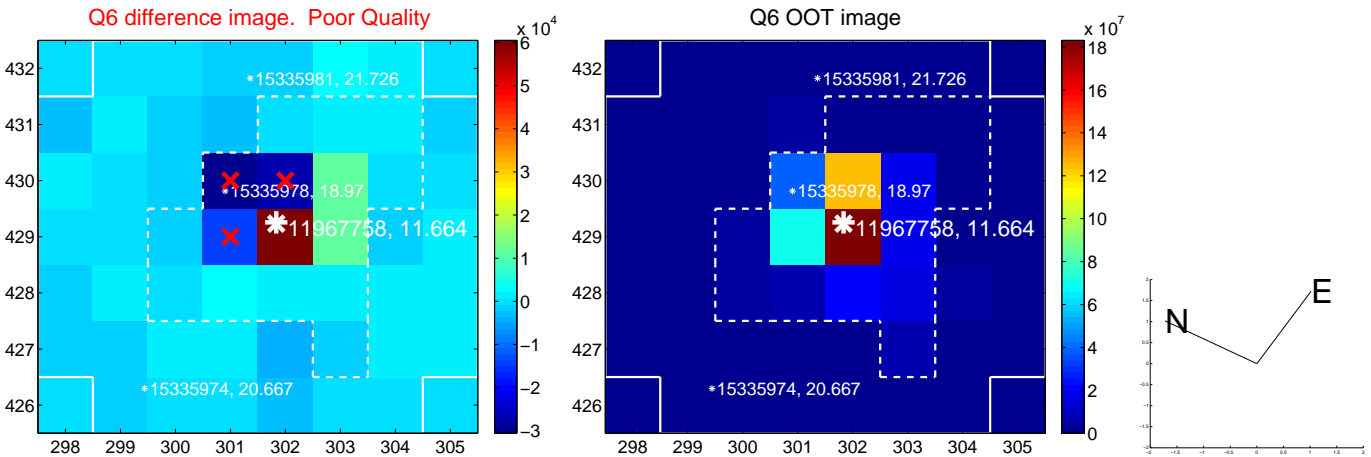
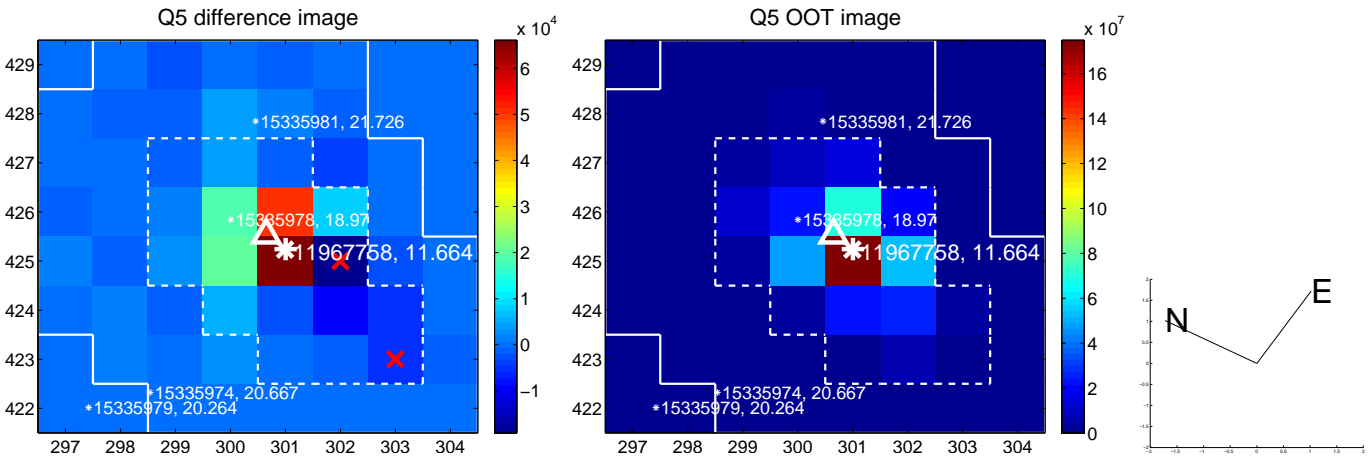


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

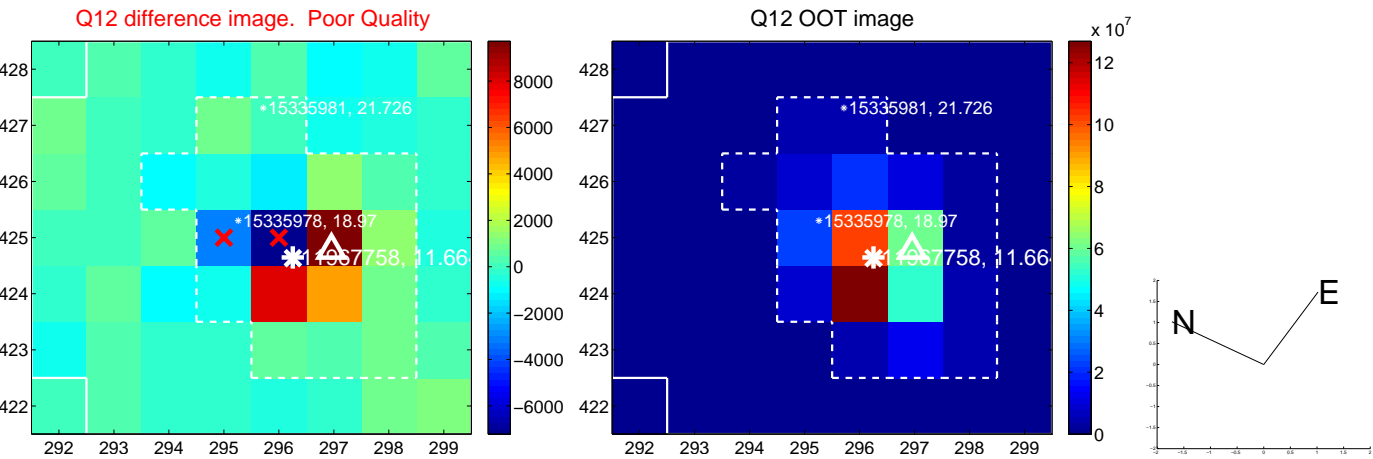
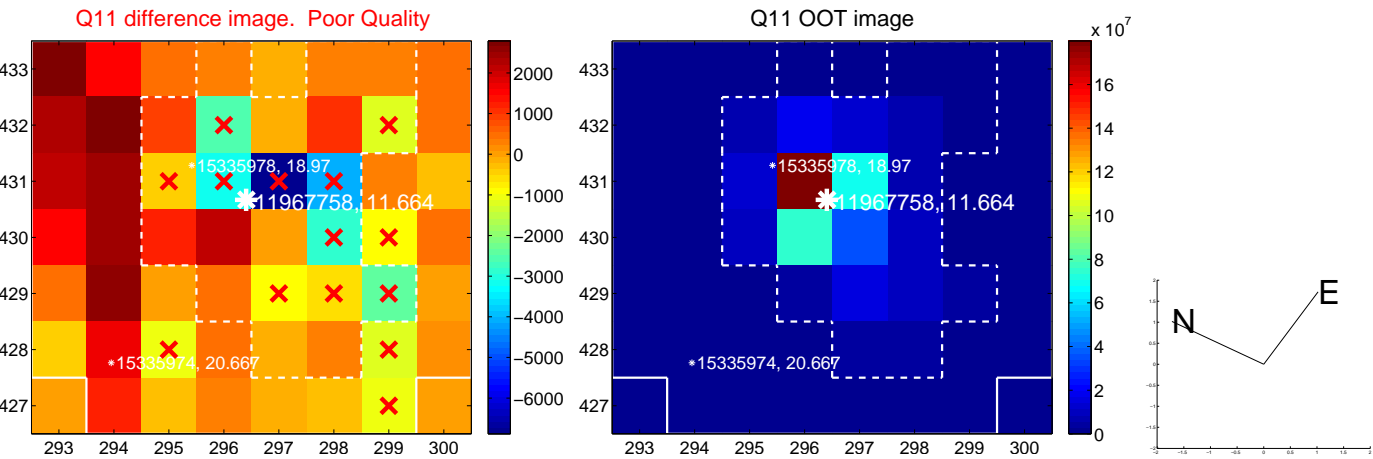
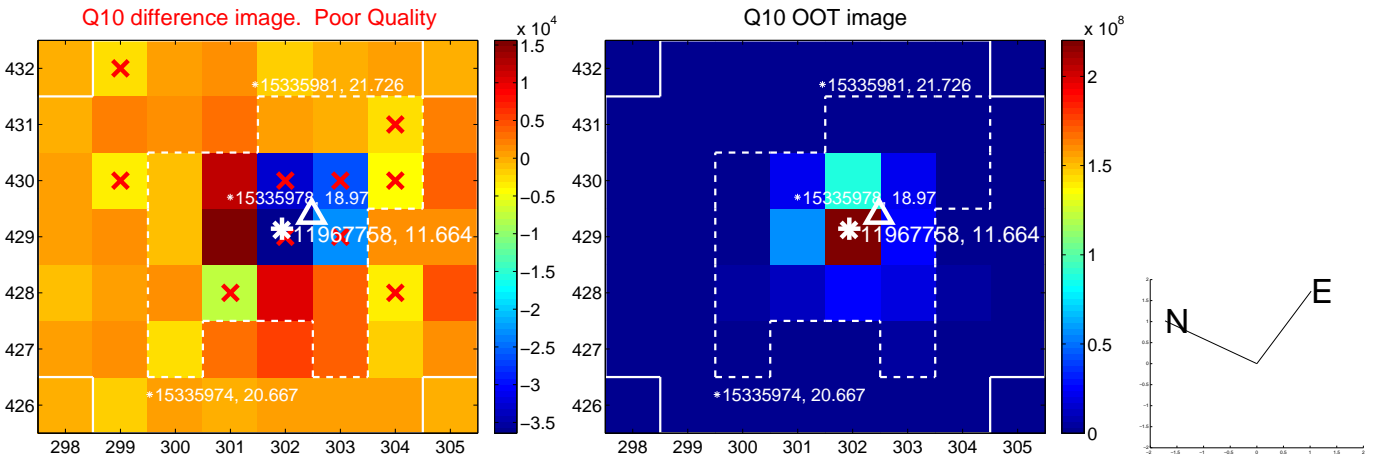
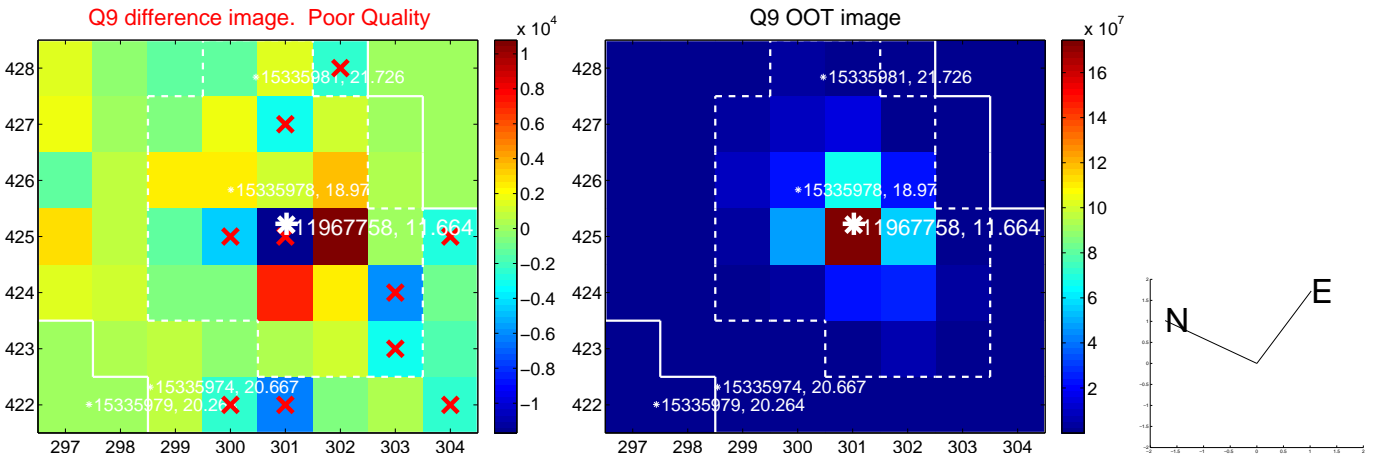
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



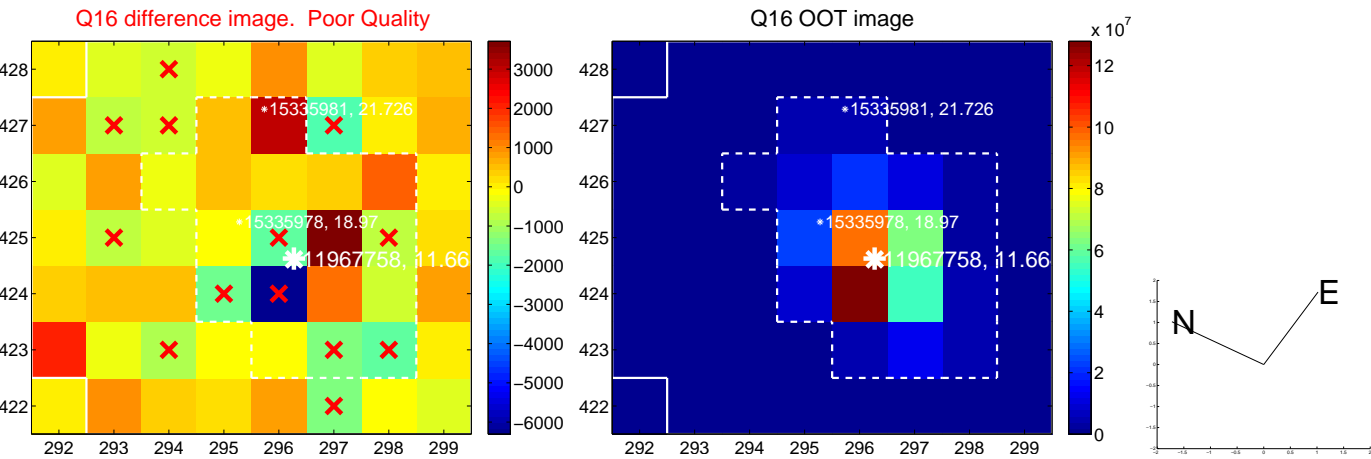
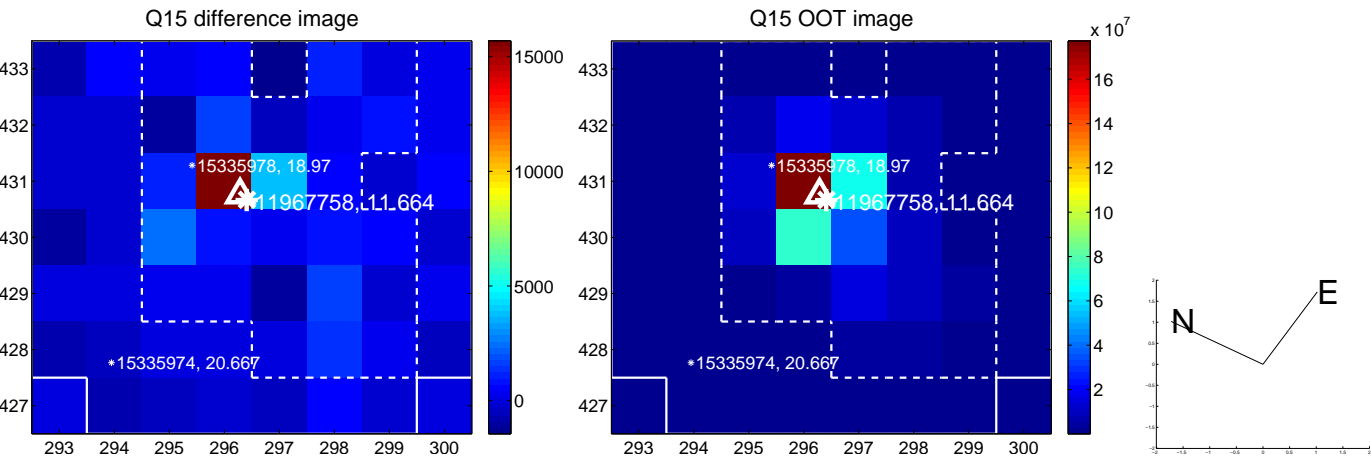
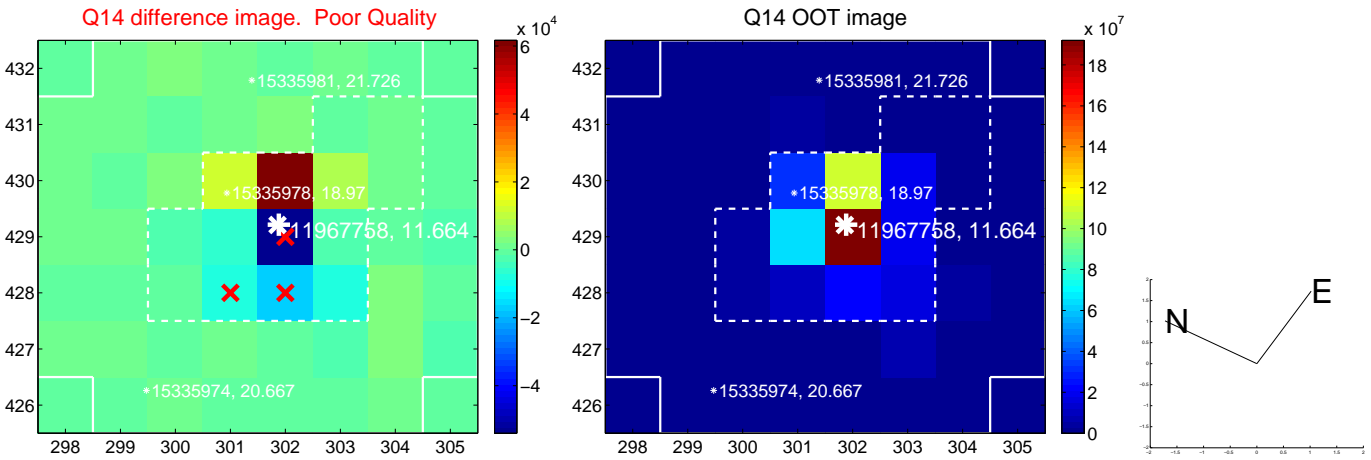
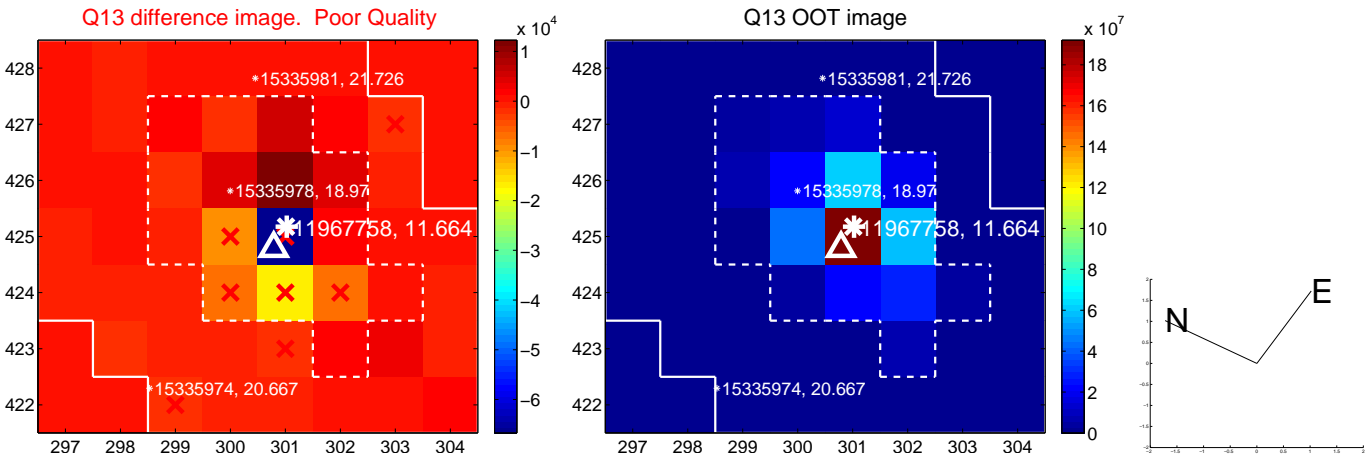
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



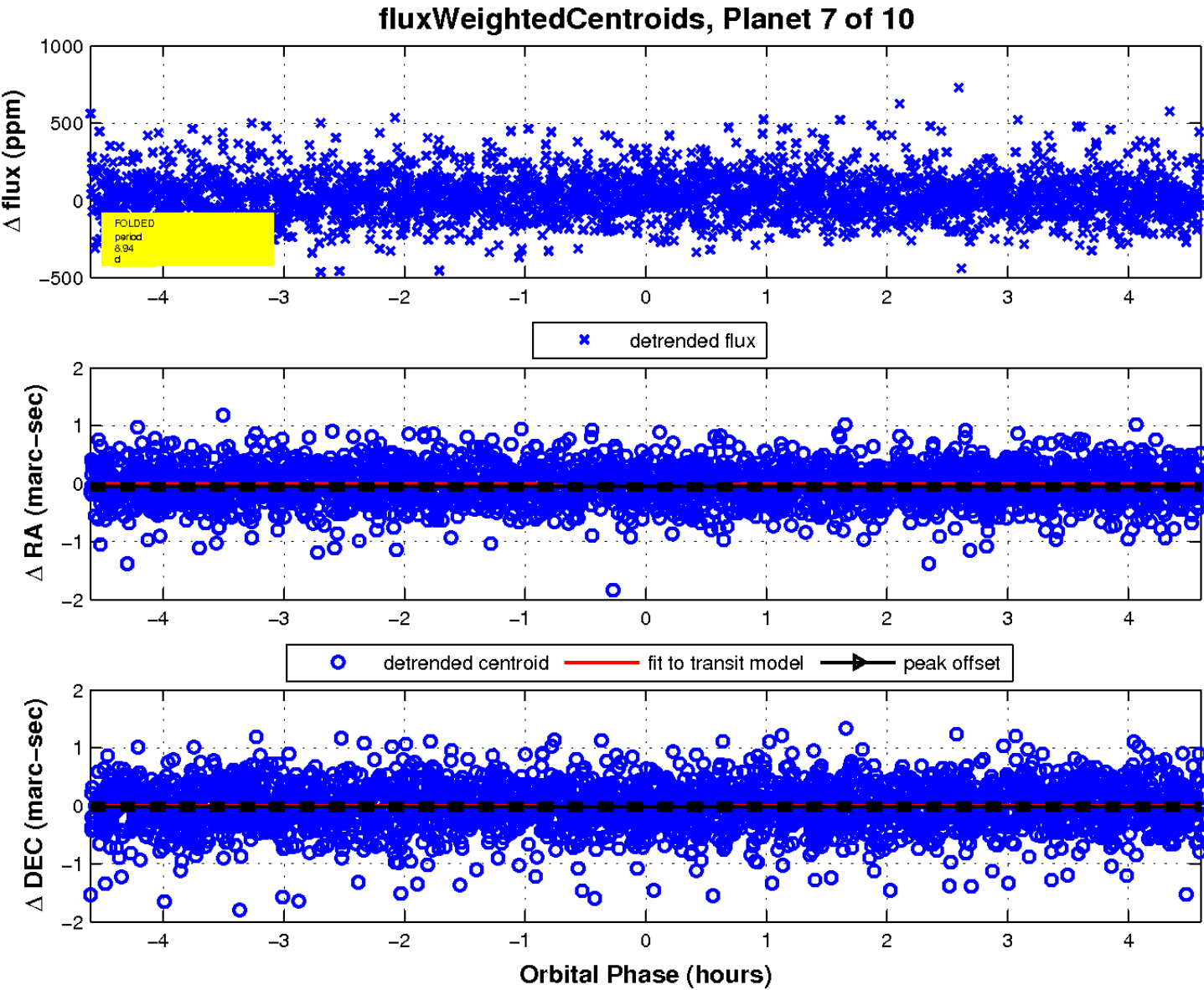
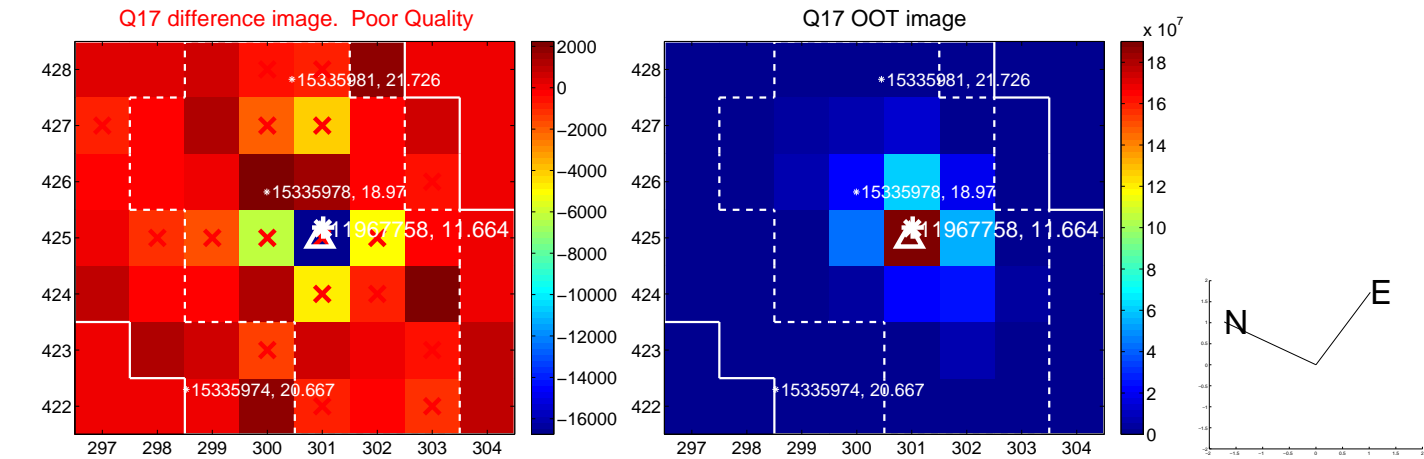
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

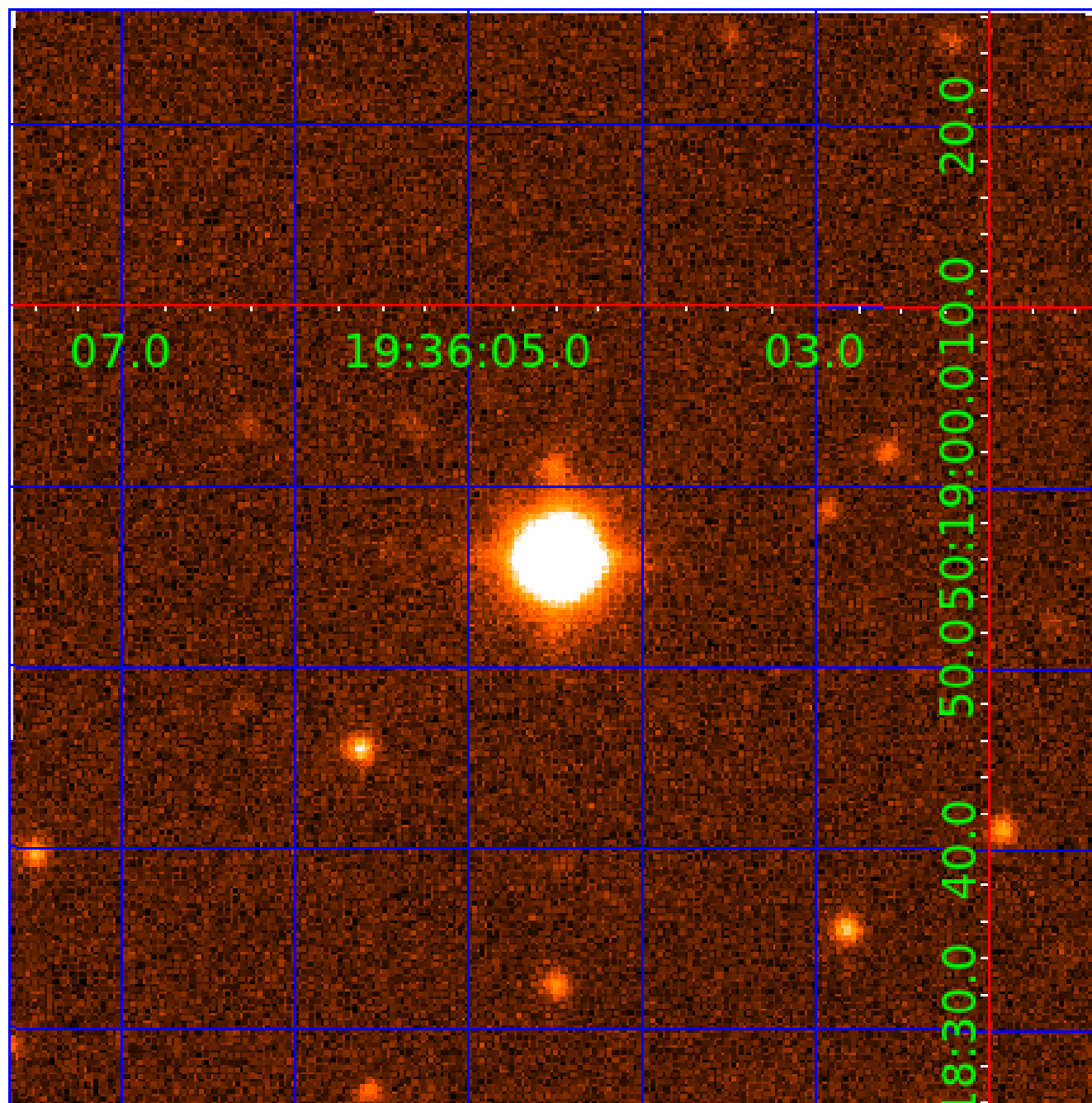


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

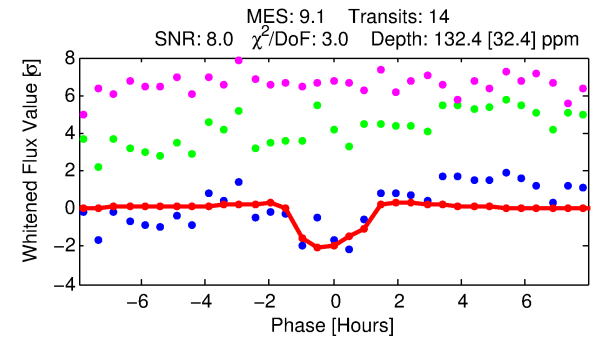
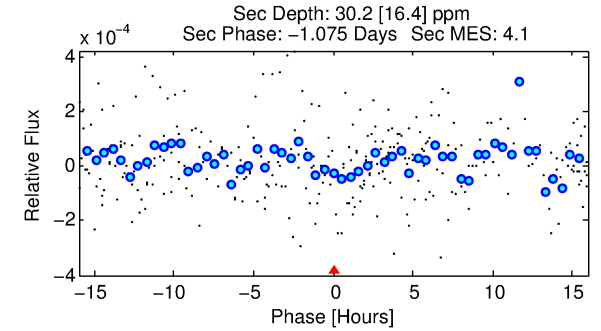
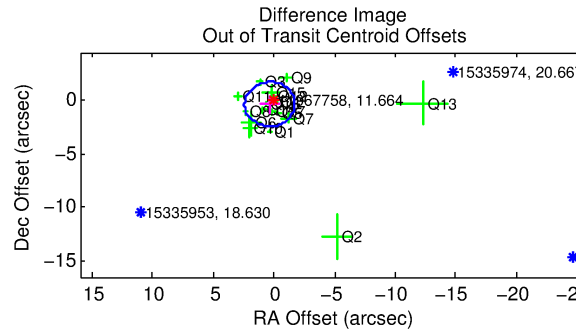
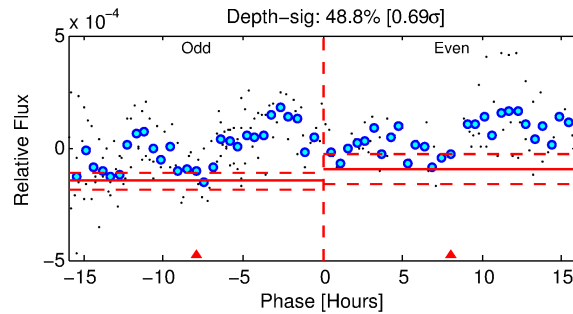
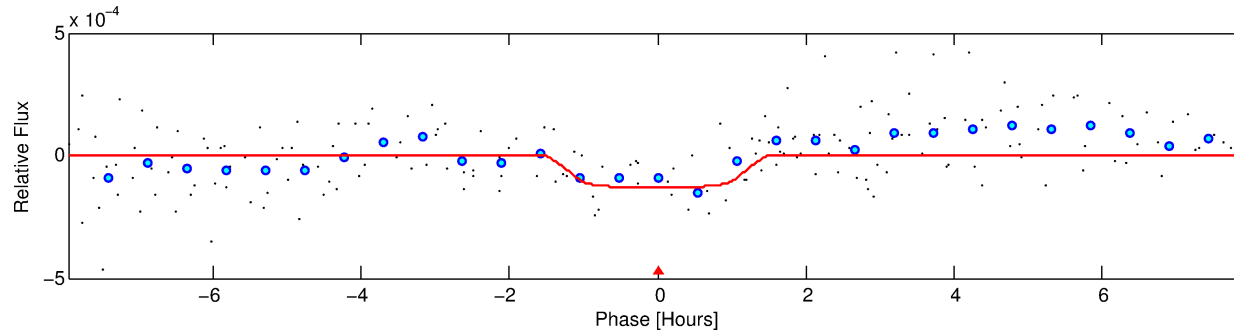
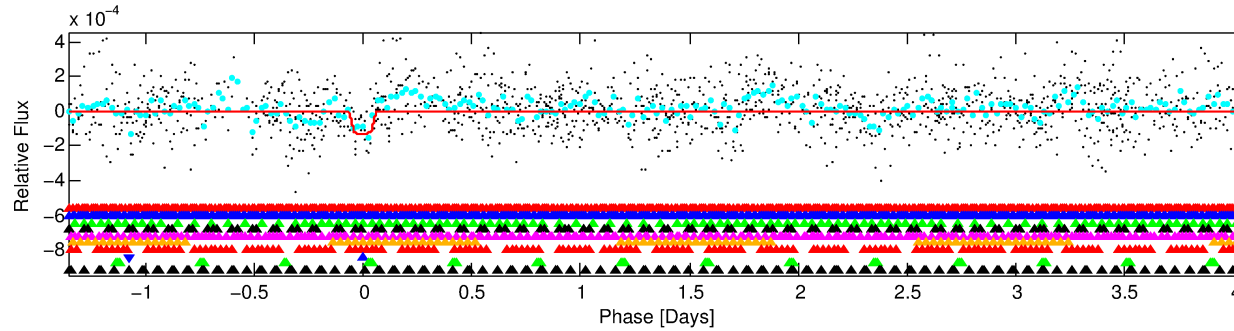
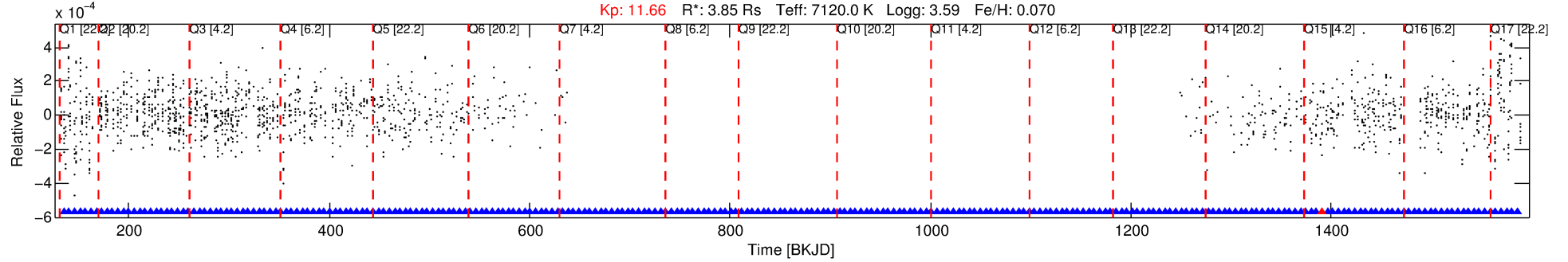
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-08

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 8 of 10 Period: 5.412 d



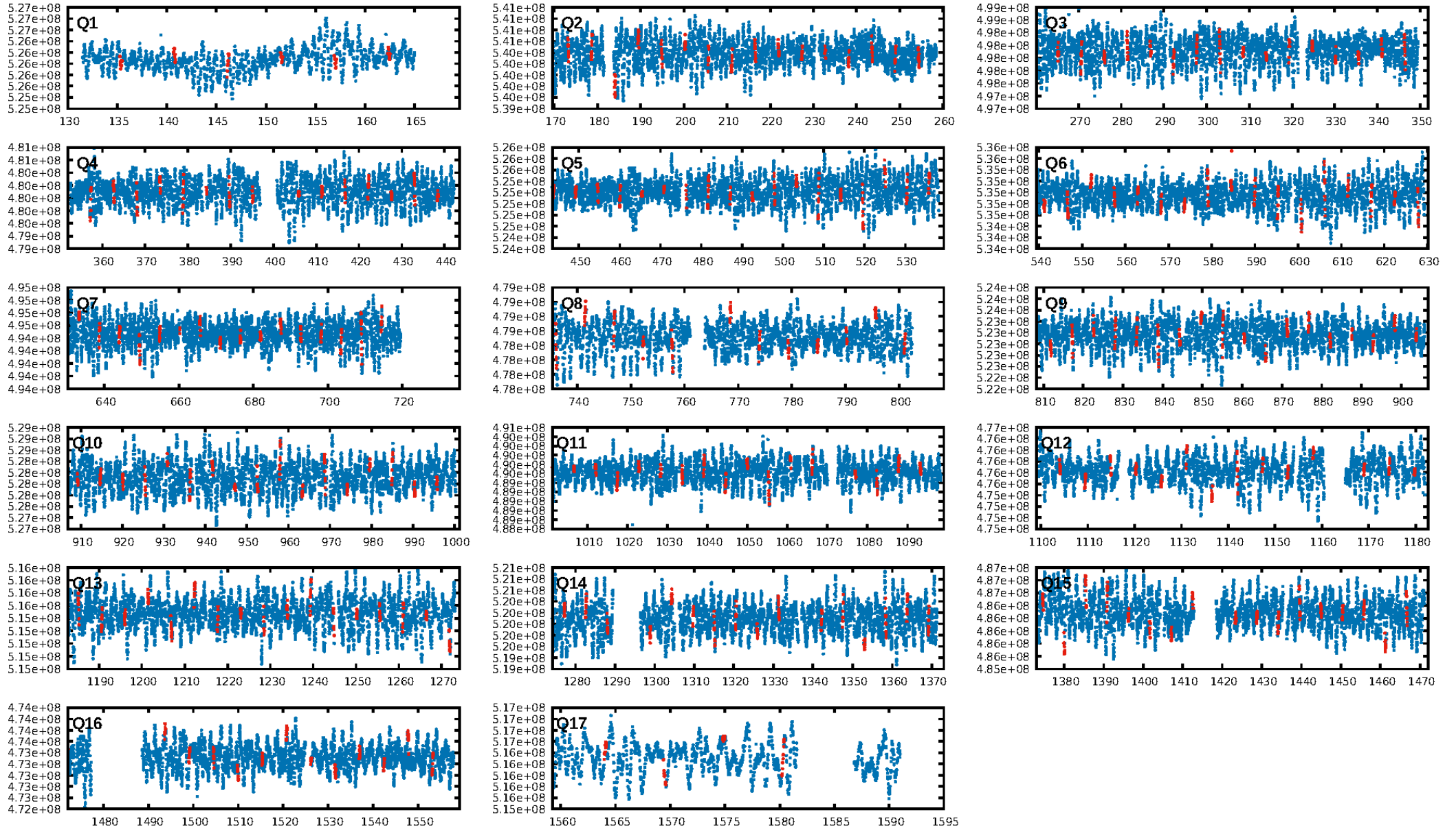
DV Fit Results:

Period = 5.41182 [0.00005] d
Epoch = 135.3456 [0.0070] BKJD
Rp/R* = 0.0123 [0.0111]
a/R* = 7.26 [39.88]
b = 0.90 [1.20]
Seff = 5707.39 [3173.75]
Teq = 2216 [308] K
Rp = 5.14 [5.00] Re
Teff = 4767 [2251] K [1.12 σ]
Ag = 3.74 [7.34] [0.37 σ]

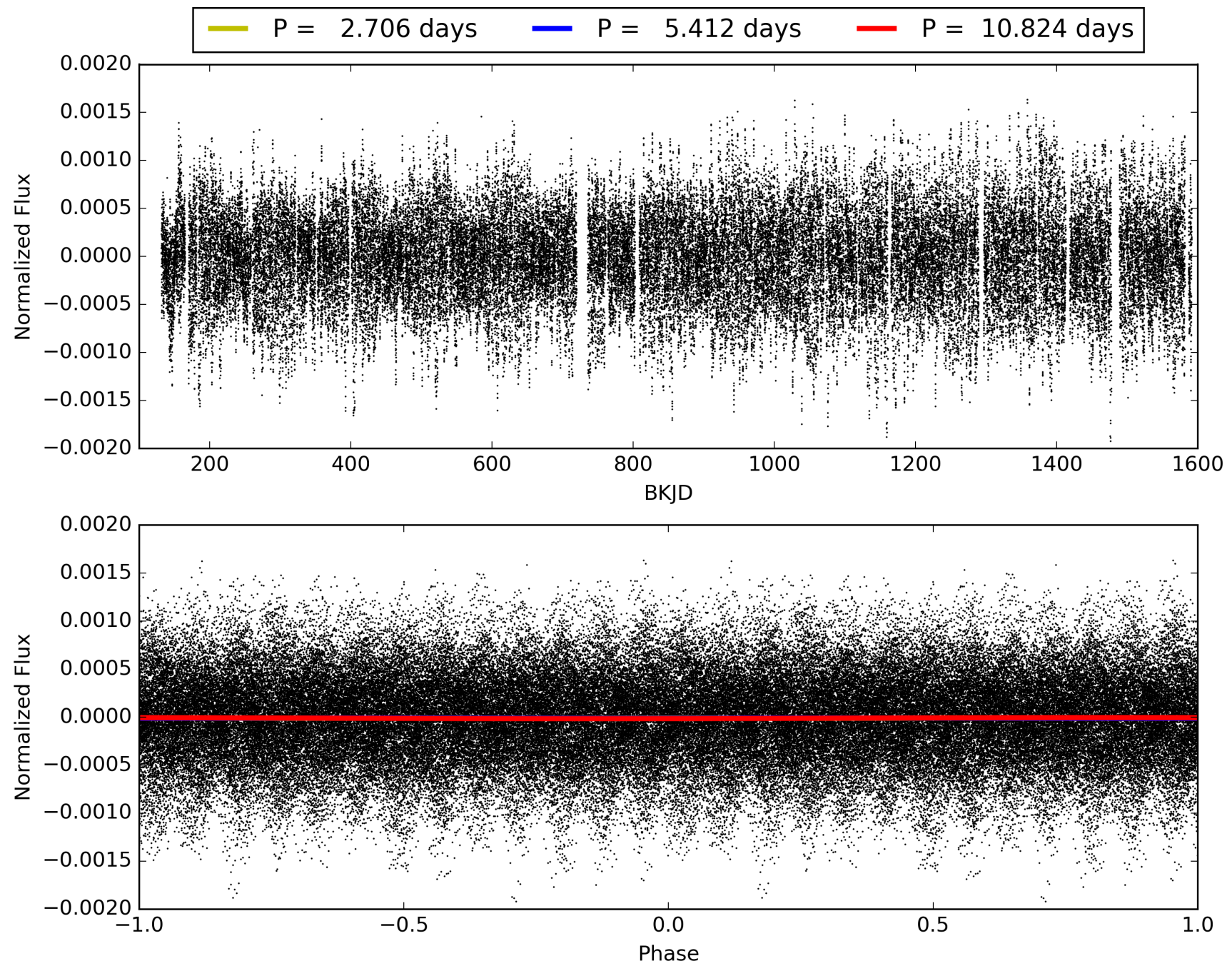
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [6.25 σ]
LongPeriod-sig: 99.9% [3.28 σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 93.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 0.92 [12/13]
GhostDiagnostic-chr: 1.11
Centroid-sig: 59.9%
Centroid-so: 0.162 arcsec [0.81 σ]
OotOffset-rm: 0.494 arcsec [0.72 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 0.544 arcsec [0.80 σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.29 [5/17]
DiffImageOverlap-fno: 0.29 [5/17]

TCE 011967758-08, PDC Light Curves

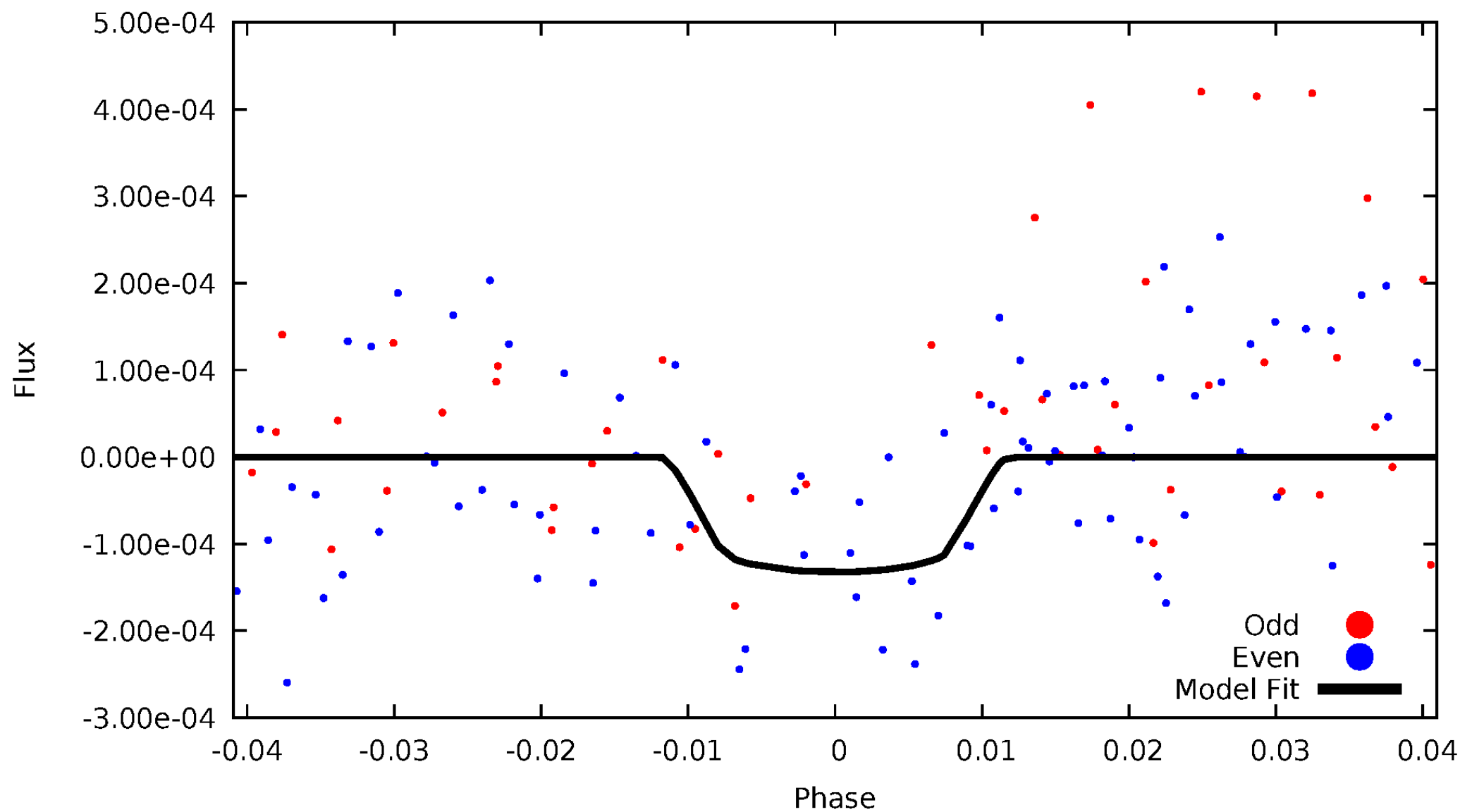


TCE 011967758-08



DV Odd/Even

TCE 011967758-08

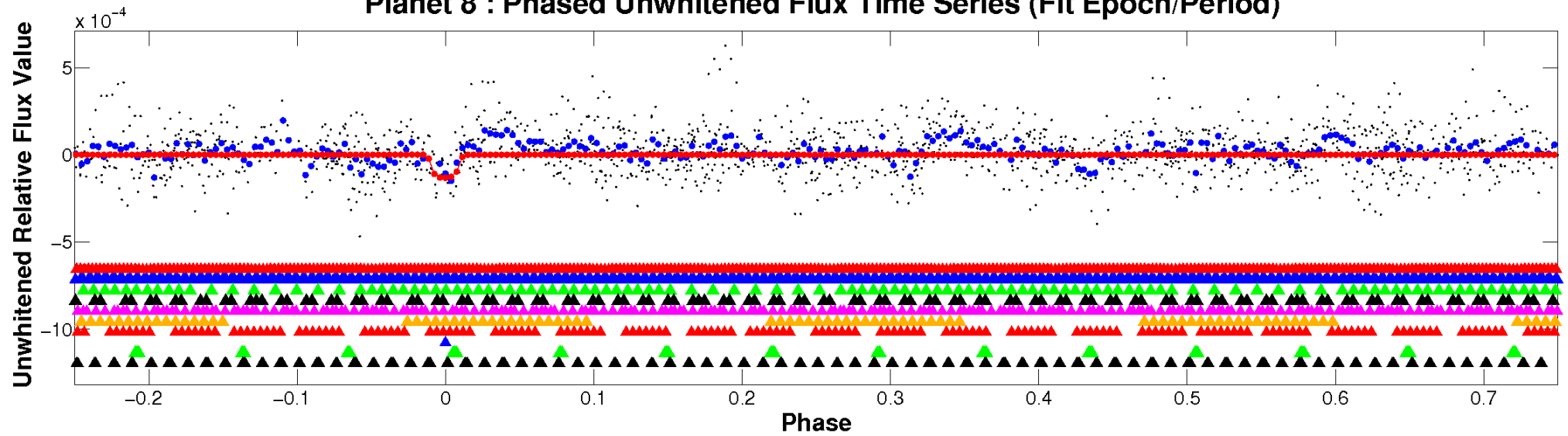


ALT Odd/Even

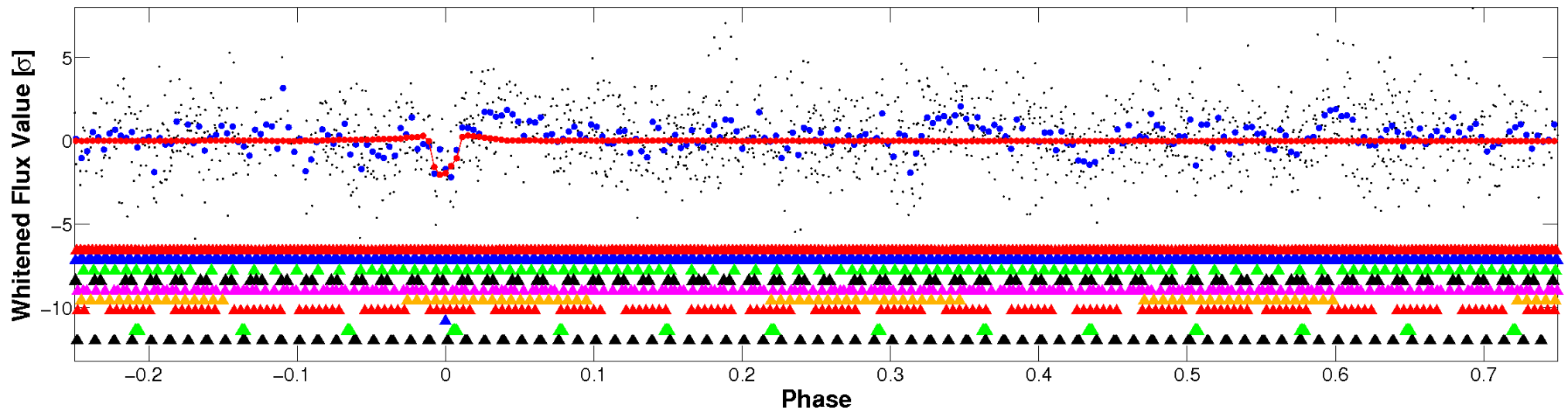
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

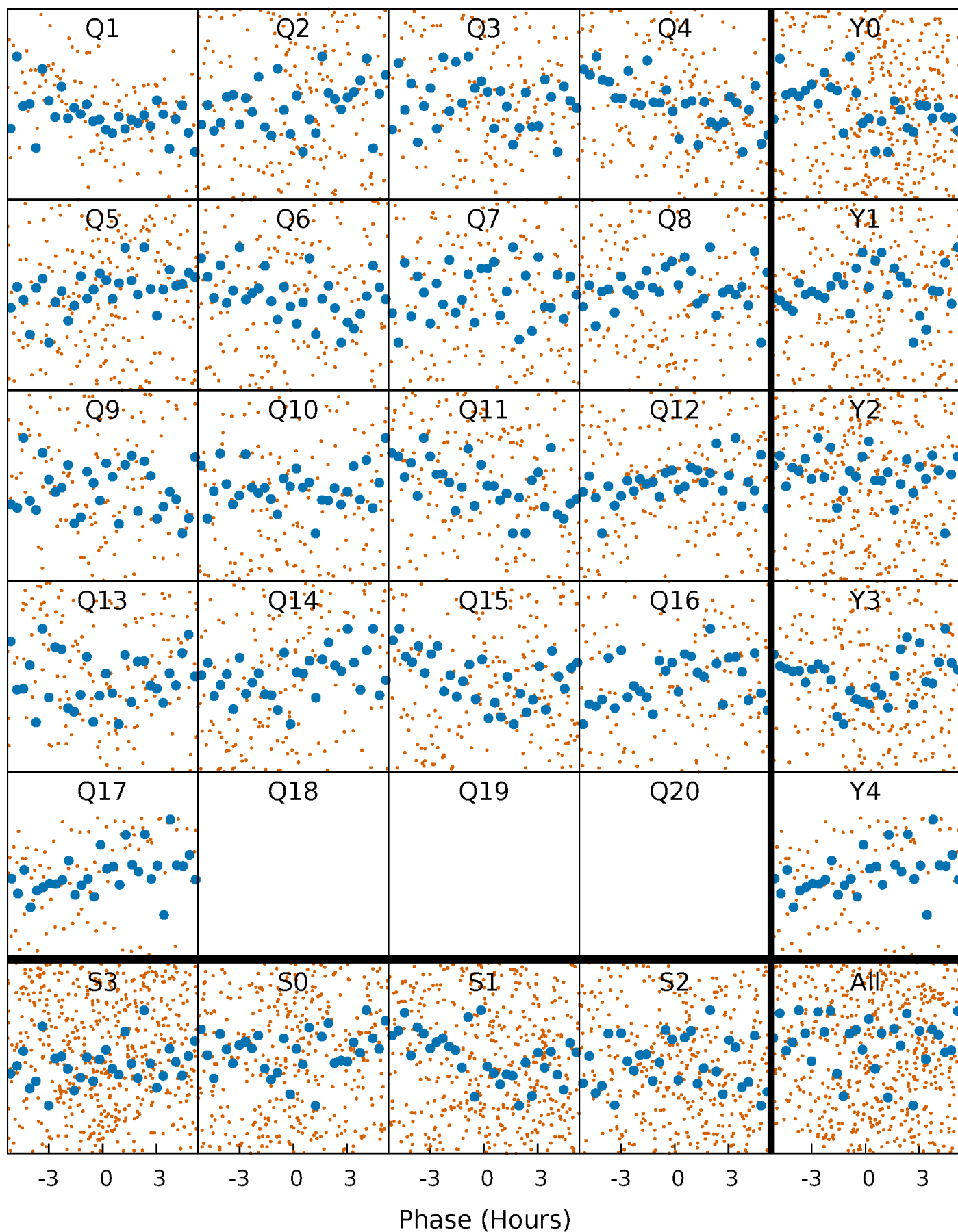


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



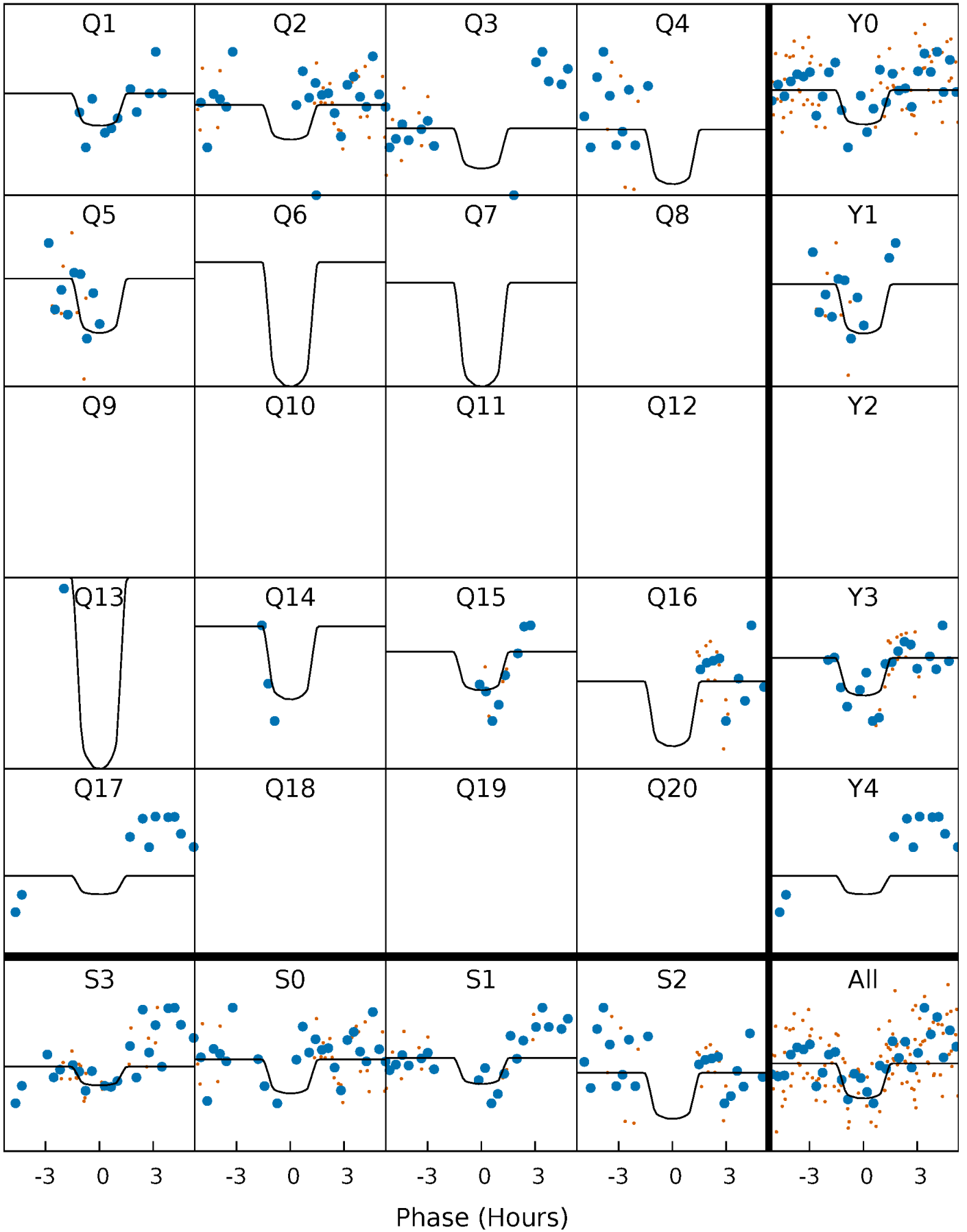
PDC Quarter-Phased Transit Curves

TCE 011967758-08 P= 5.411821 Days $T_0=135.345631$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-08 P= 5.411821 Days $T_0=135.345631$ (BKJD)

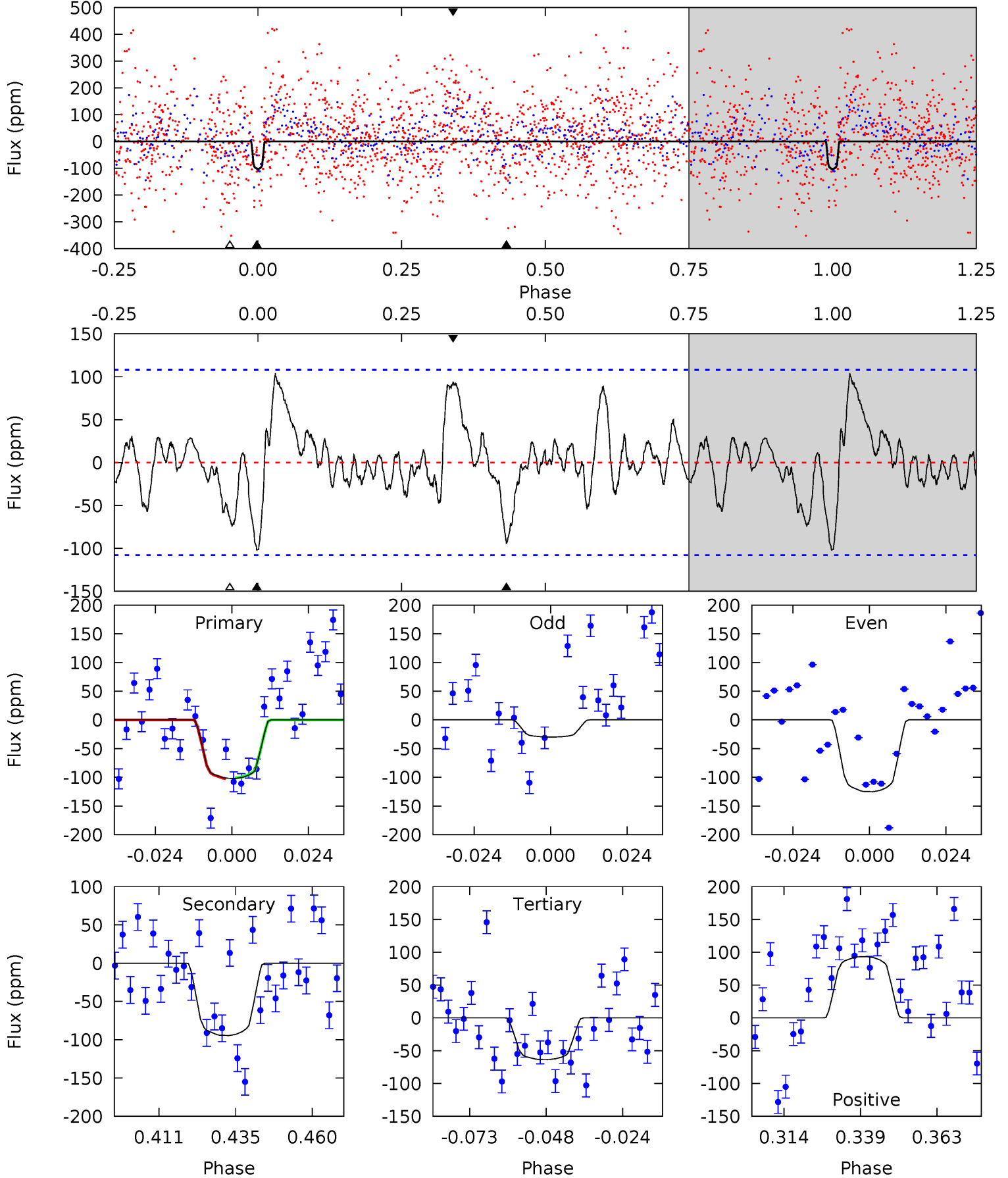


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-08, P = 5.411821 Days, E = 129.933810 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.59	4.25	2.86	4.20	4.85	2.25	1.47	1.73	0.39	1.39	0.05	2.07	0.62	0.51	0.02



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-94 ± 22	$5.53^{+4.17}_{-3.28}$	3027^{+143}_{-276}	5711^{+3895}_{-1266}	$9.780^{+47.497}_{-6.604}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

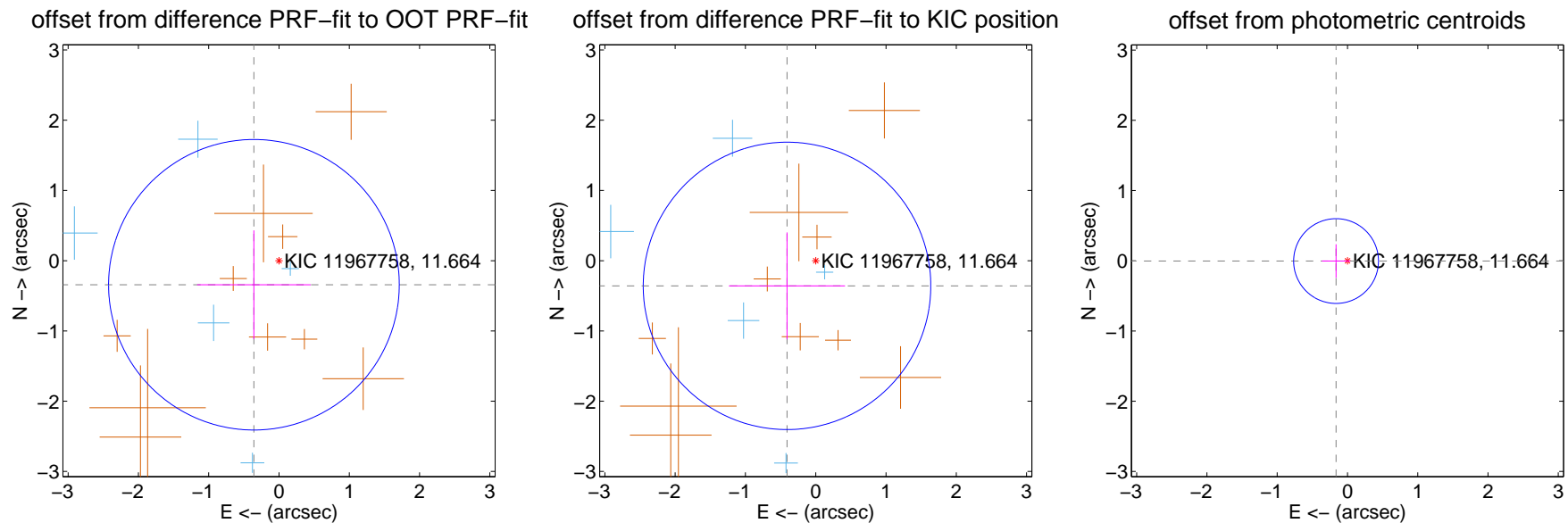
DV Centroid Data

Supplemental centroid analysis for 011967758-08. **Kepler magnitude: 11.66.** Transit SNR 8.02

There are 5 quarters with good PRF difference image offsets

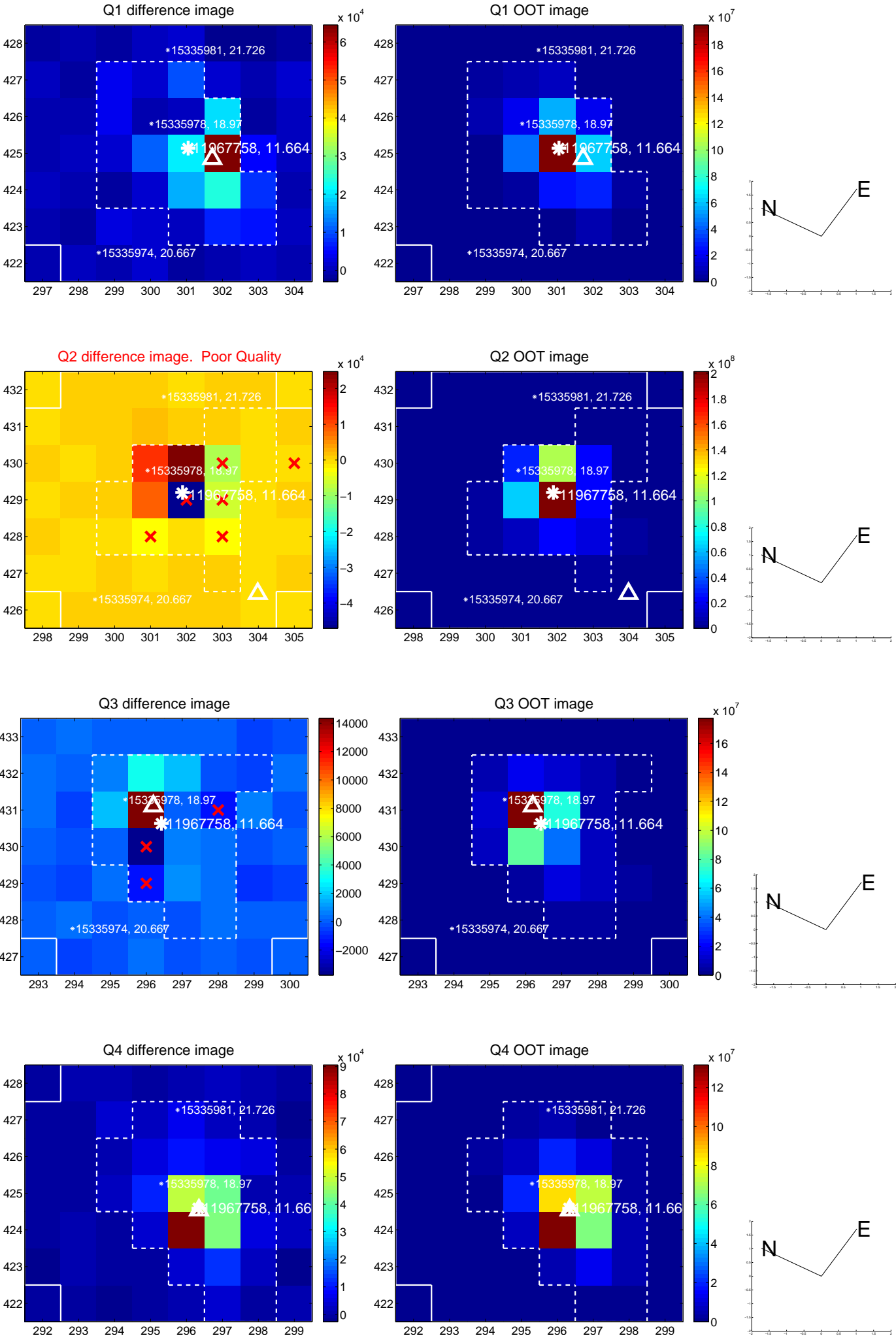
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.494 ± 0.689	0.72	0.357 ± 0.808	-0.343 ± 0.773
PRF-fit source offset from KIC position	0.544 ± 0.682	0.80	0.409 ± 0.826	-0.358 ± 0.761
photometric centroid source offset	0.16 ± 0.20	0.81	0.16 ± 0.20	-0.00 ± 0.24

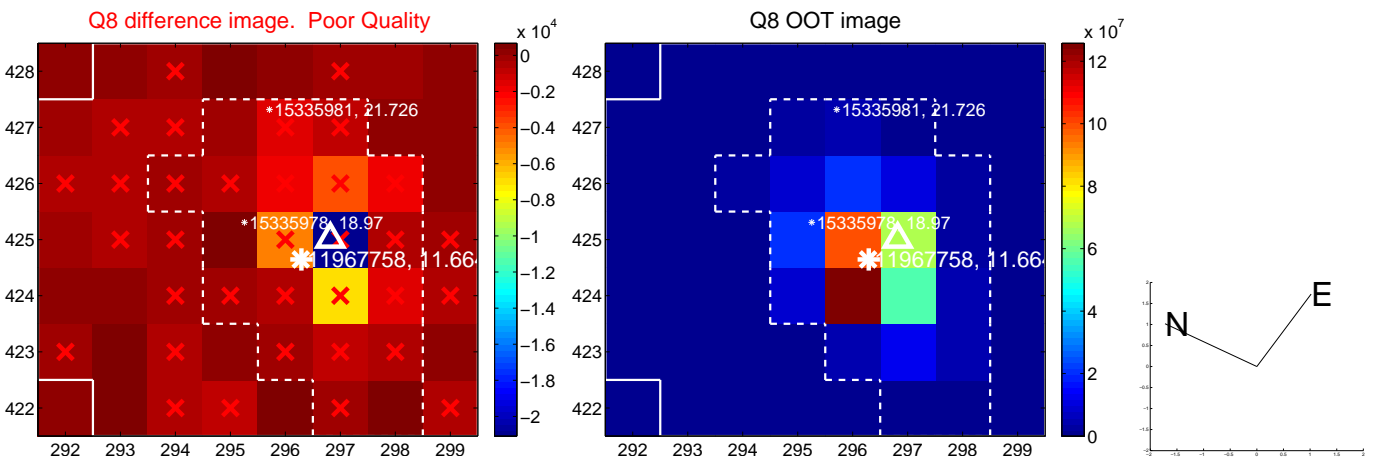
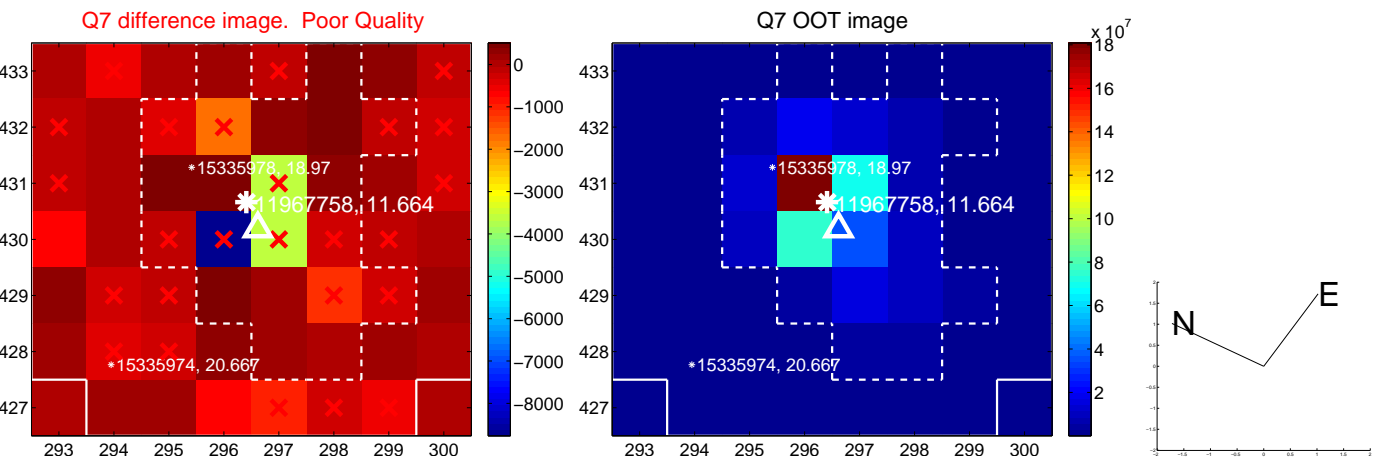
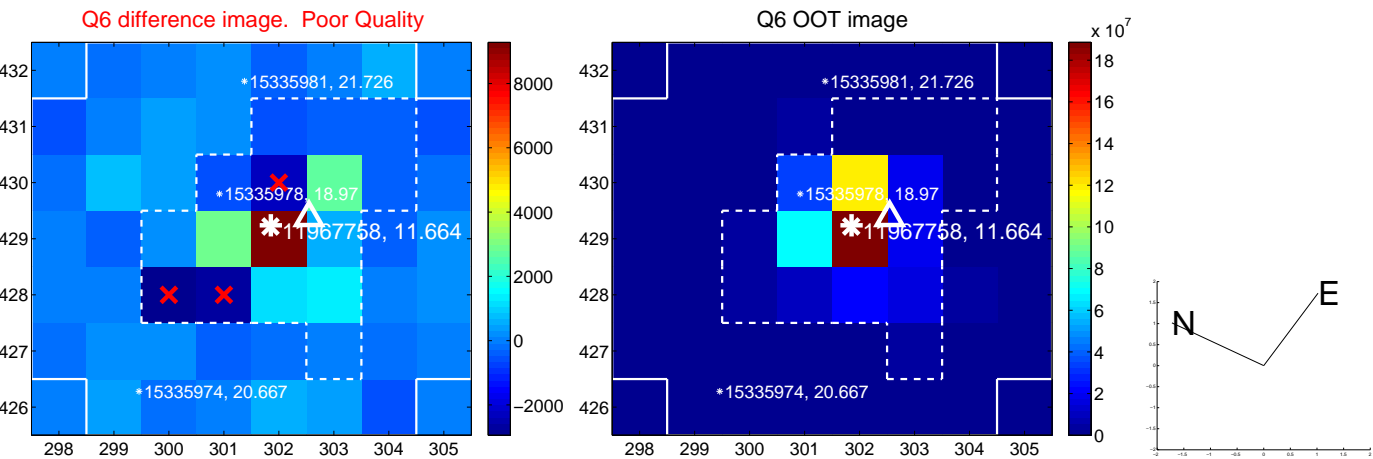
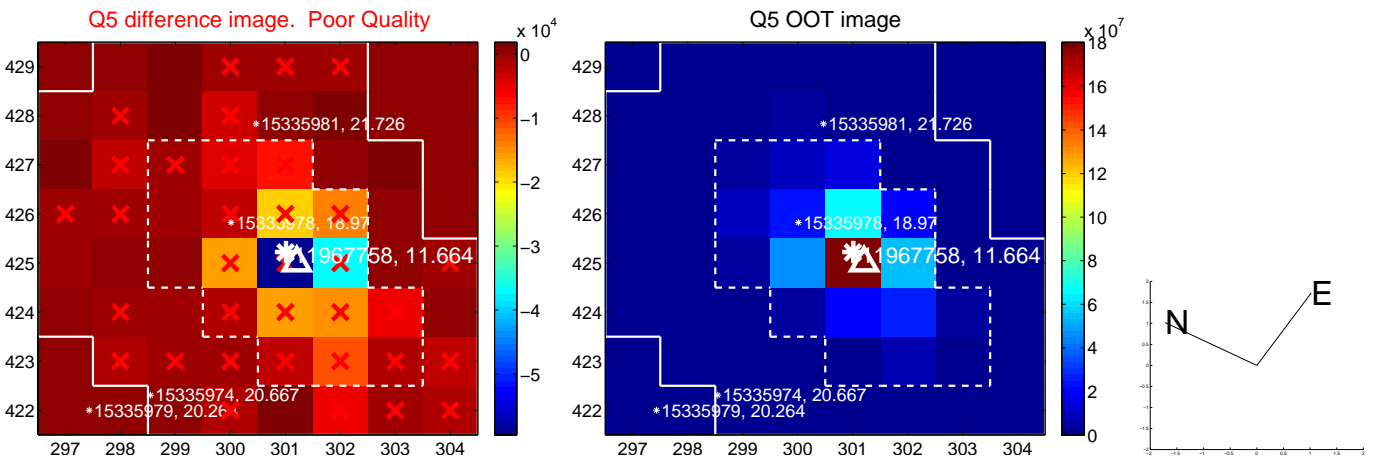


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

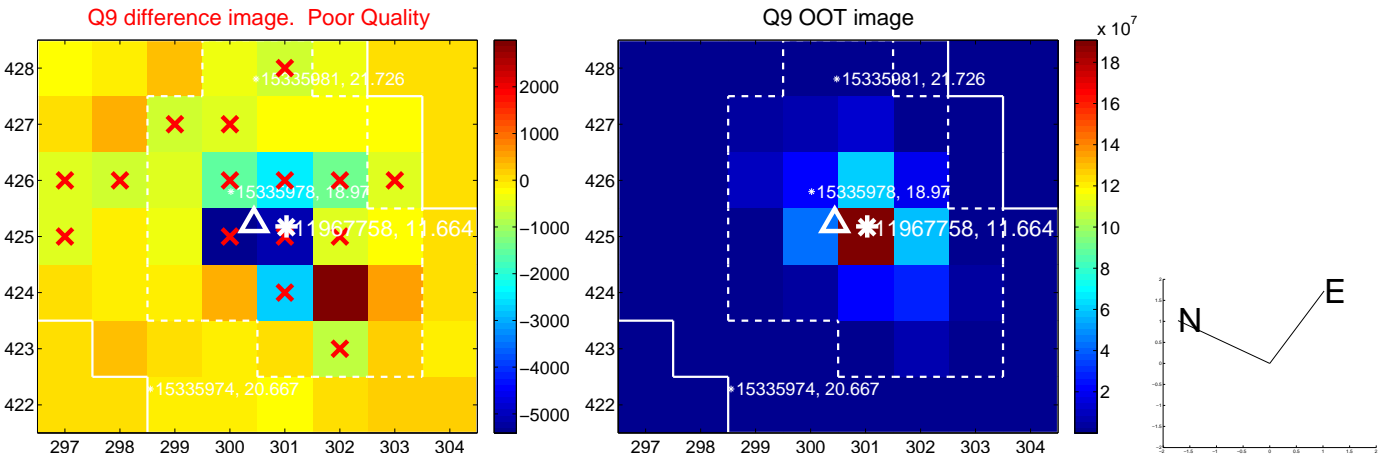
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



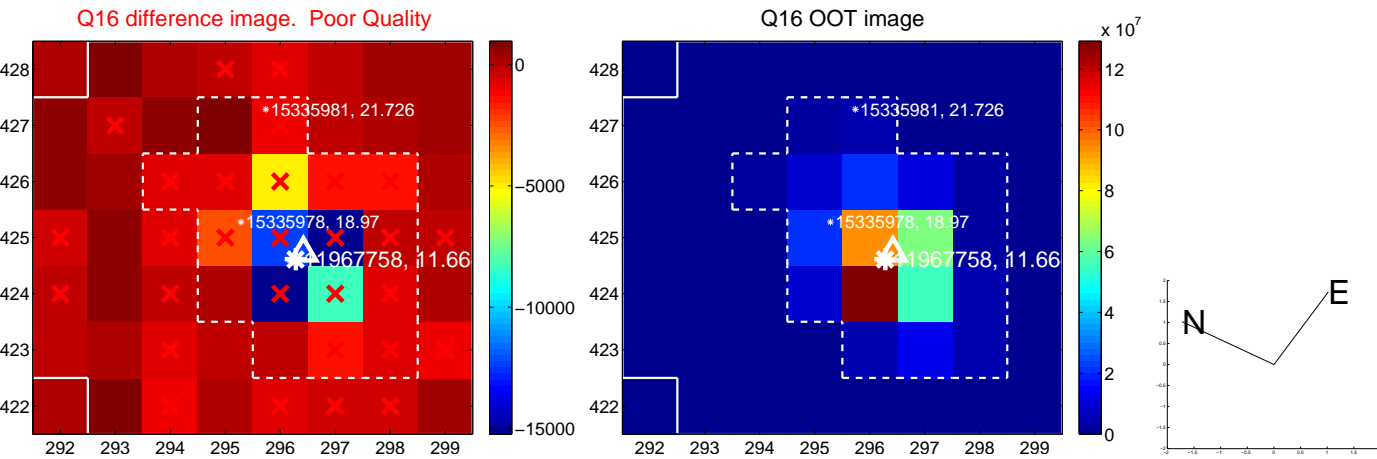
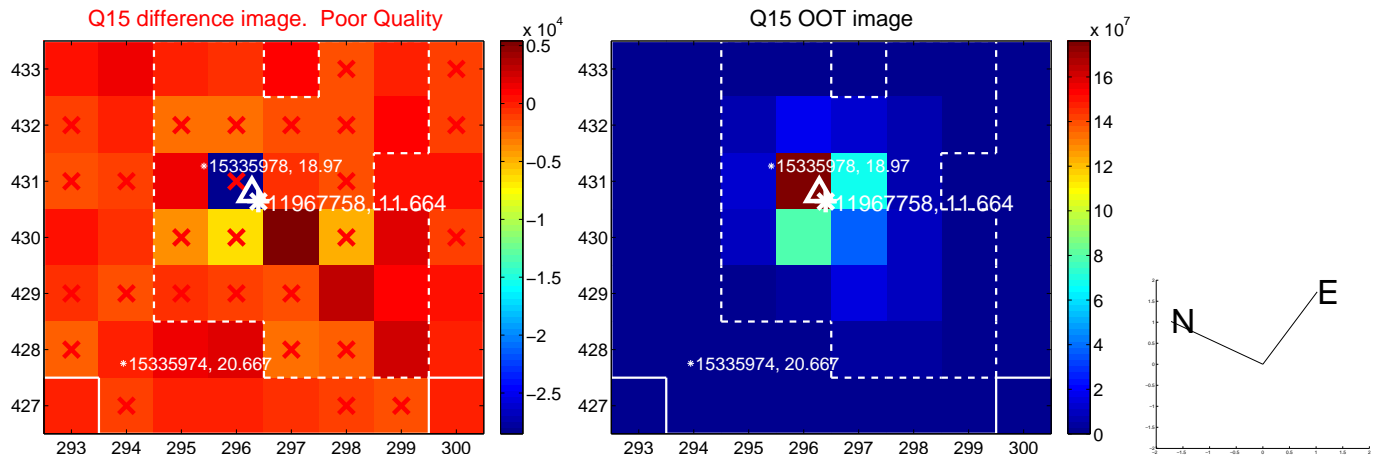
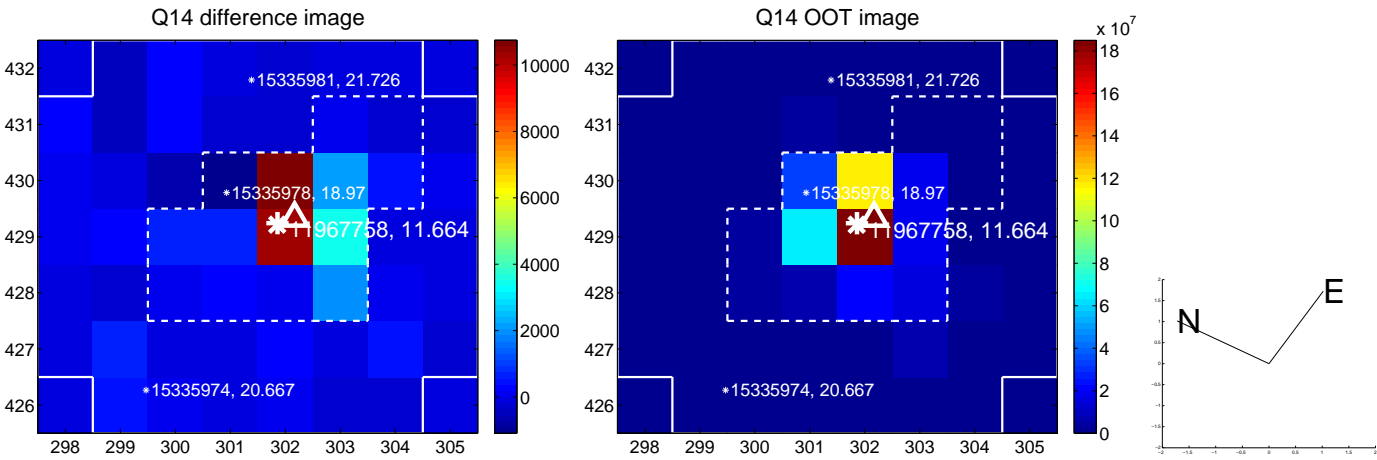
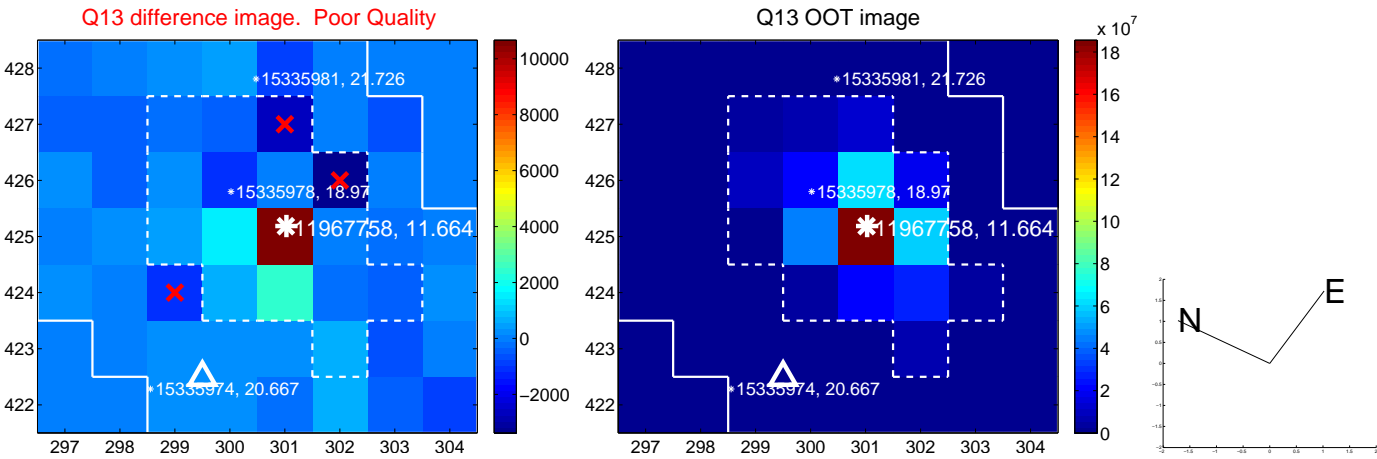
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



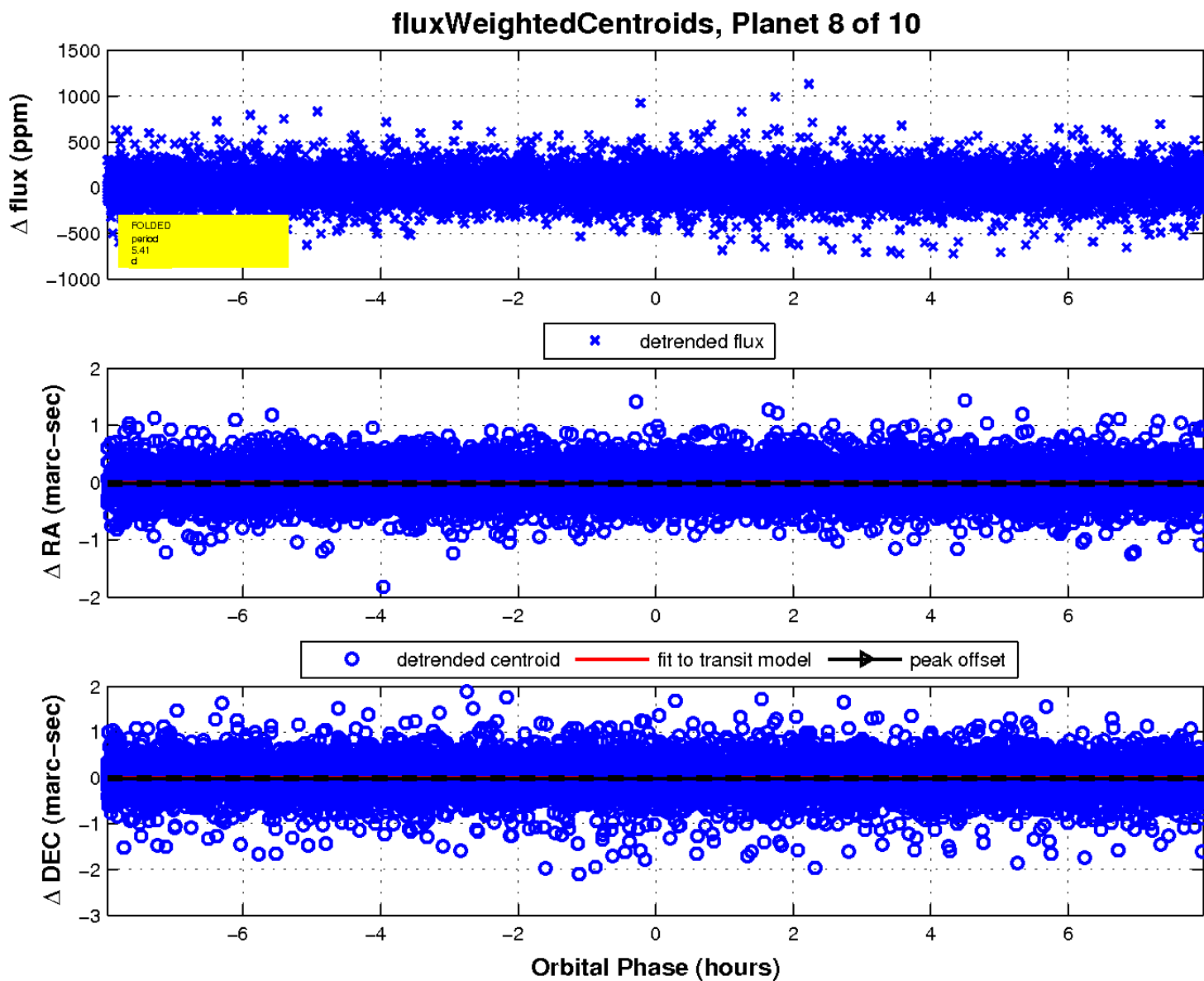
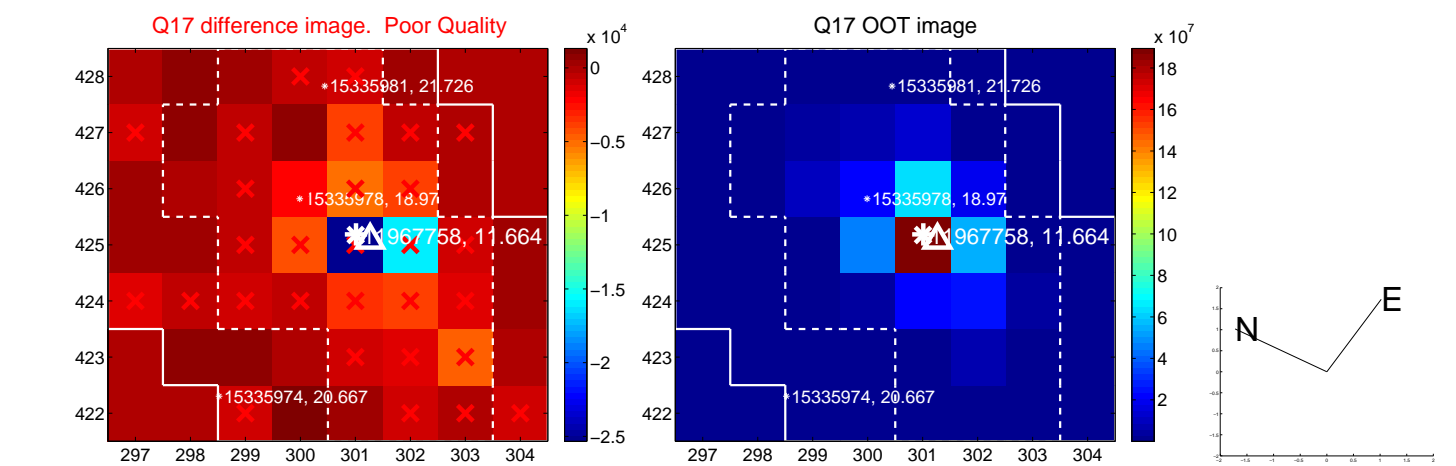
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

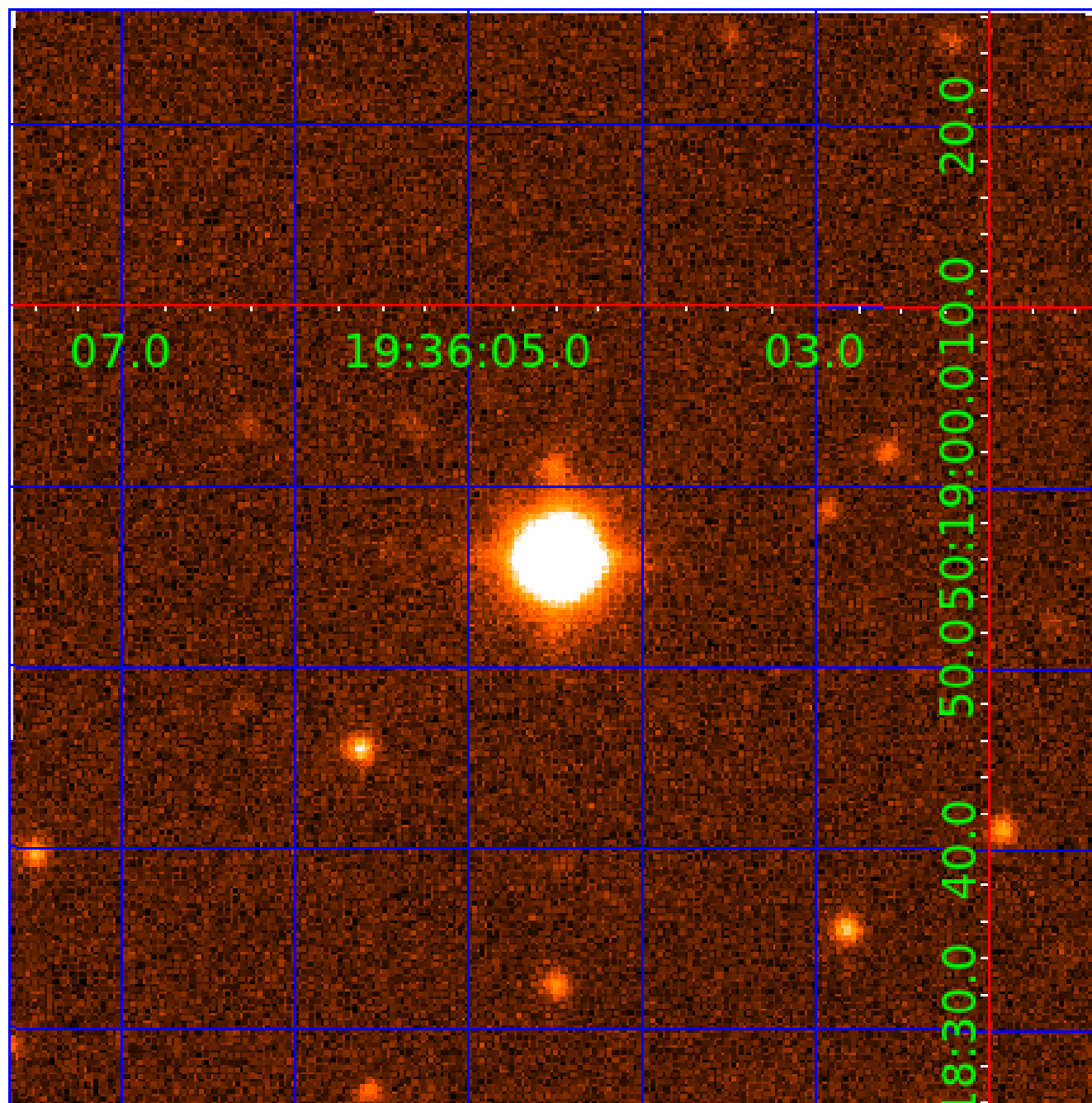


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011967758

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})
011967758-01	OBS	No	2.082565	132.198694	0.0	12.498	8.9	0.0	3.85	7120	0.07	20390.64
011967758-02	OBS	No	1.041861	131.752048	32.6	6.431	13.7	12.0	3.85	7120	2.29	51343.19
011967758-04	OBS	No	12.438057	143.843872	264.5	4.607	17.6	13.1	3.85	7120	6.51	1881.74
011967758-05	OBS	No	6.029365	131.879015	169.1	3.659	12.4	12.3	3.85	7120	5.06	4941.59
011967758-06	OBS	No	17.597009	147.357674	216.5	5.614	9.7	9.1	3.85	7120	5.80	1184.80
011967758-07	OBS	No	8.940224	140.154598	209.9	1.535	9.2	8.3	3.85	7120	5.65	2922.57
011967758-08	OBS	No	5.411821	135.345631	132.4	2.658	9.1	8.0	3.85	7120	5.14	5707.39
011967758-10	OBS	No	8.050142	133.048494	151.6	1.500	8.4	-1.0	3.85	7120	4.81	3361.17

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967758-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT
011967758-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT
011967758-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
011967758-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
011967758-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_NOFITS

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

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

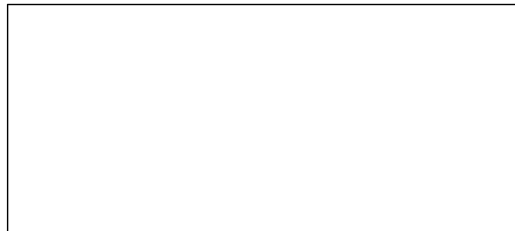
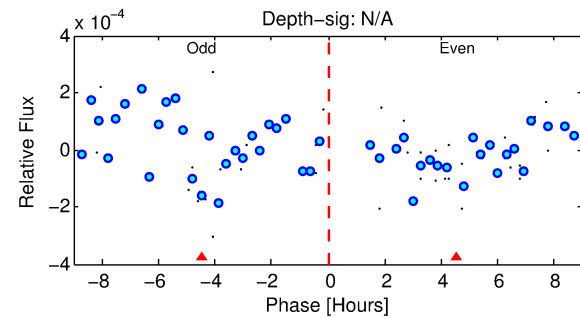
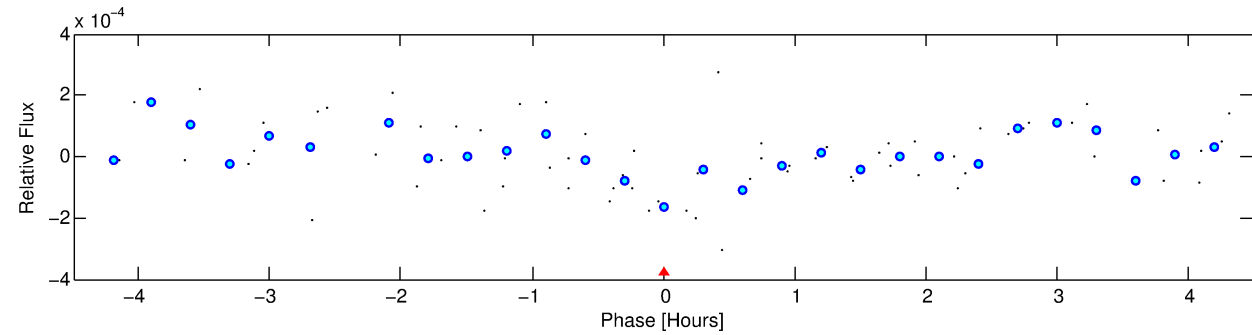
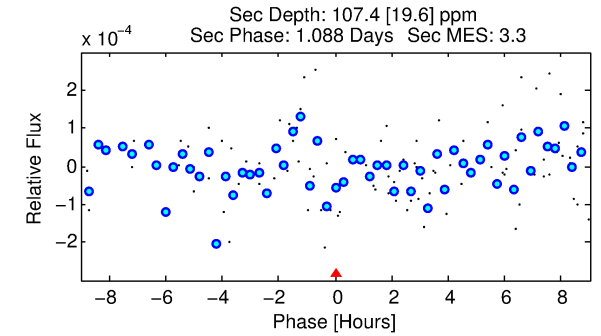
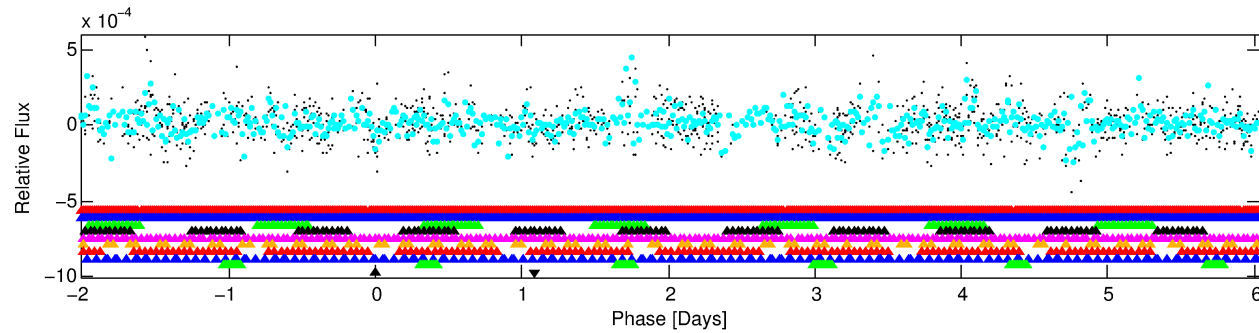
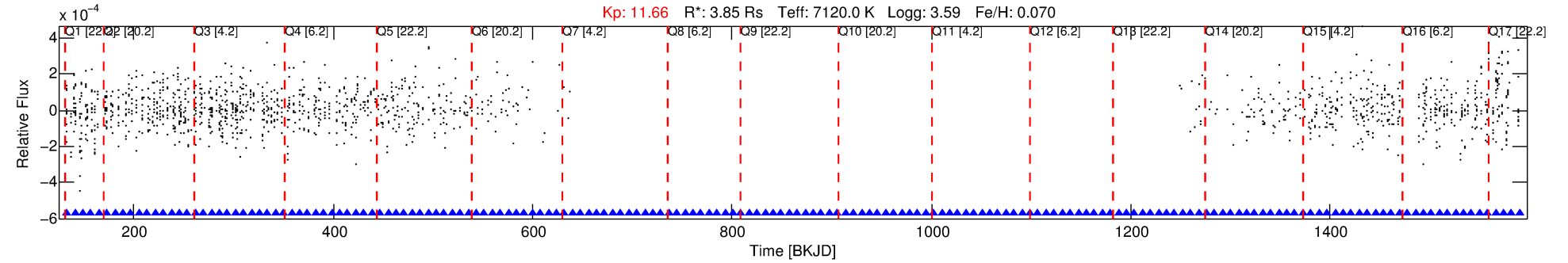
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967758-10

No Significant Match Found

DV One-Page Summary

KIC: 11967758 Candidate: 10 of 10 Period: 8.050 d



TPS TCE Results:

Period = 8.05014 d
Epoch = 133.0485 BKJD

DV fit results are unavailable

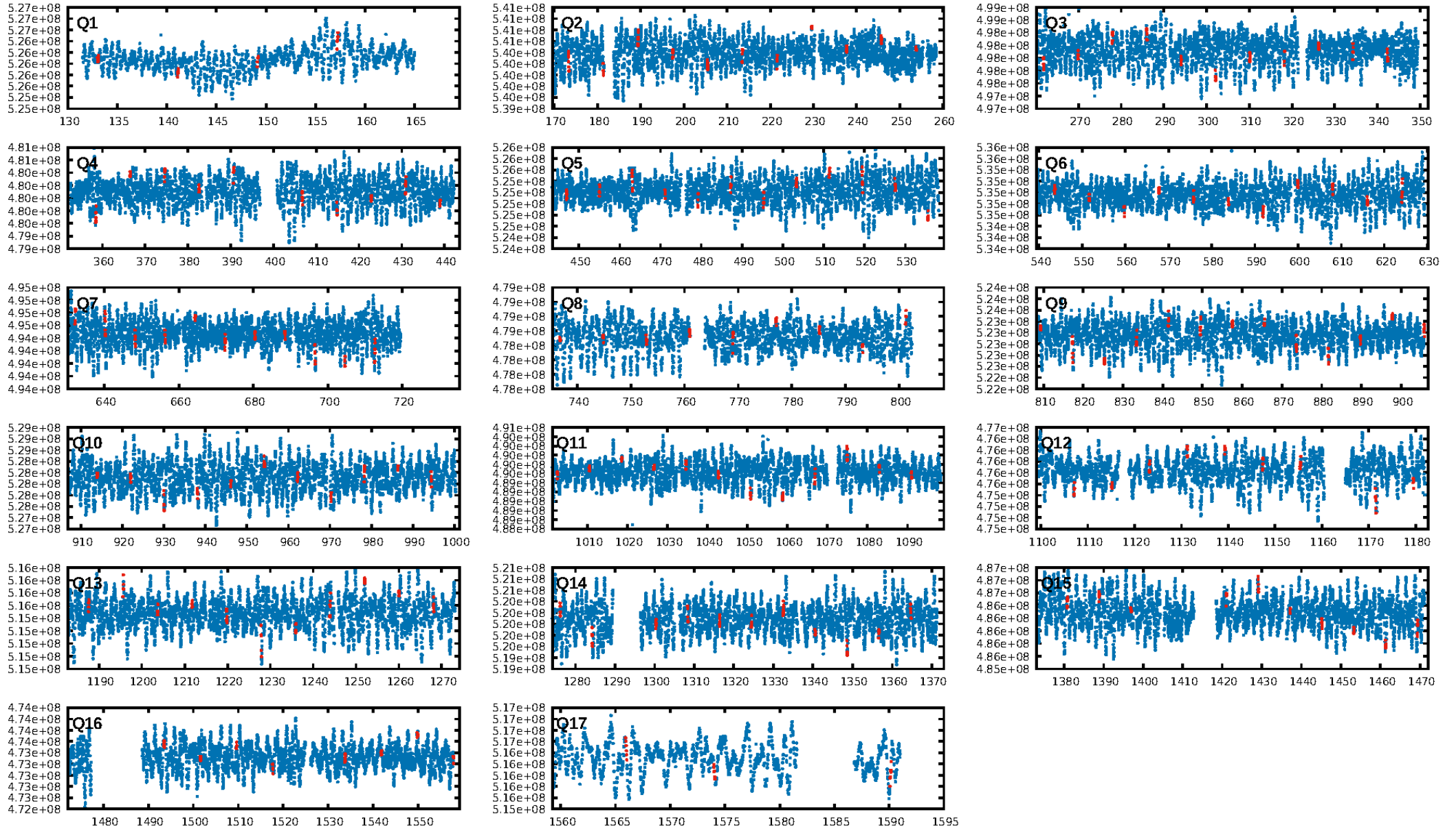
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [12.27σ]
LongPeriod-sig: 100.0% [9.95σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

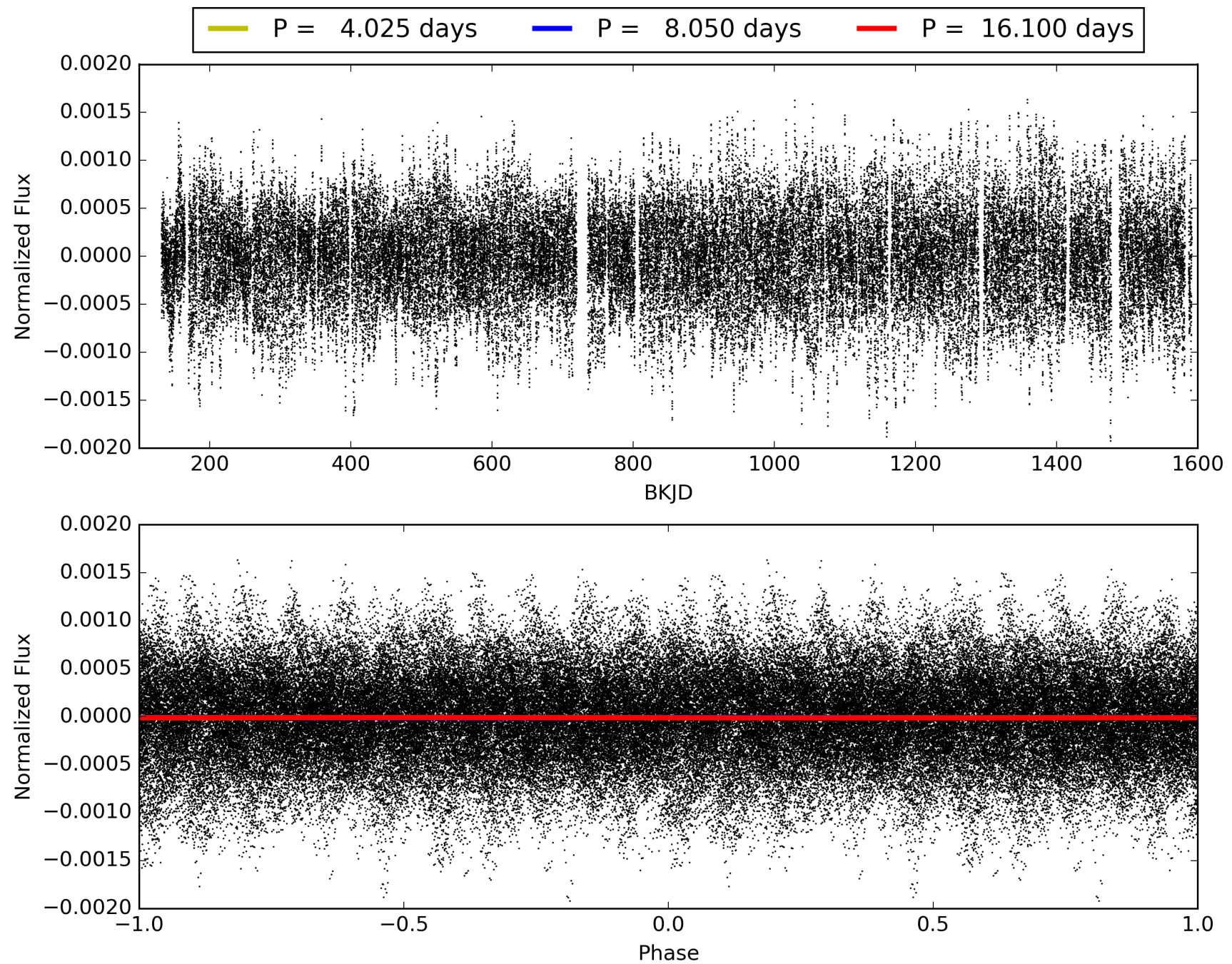
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:15:39 Z

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

TCE 011967758-10, PDC Light Curves

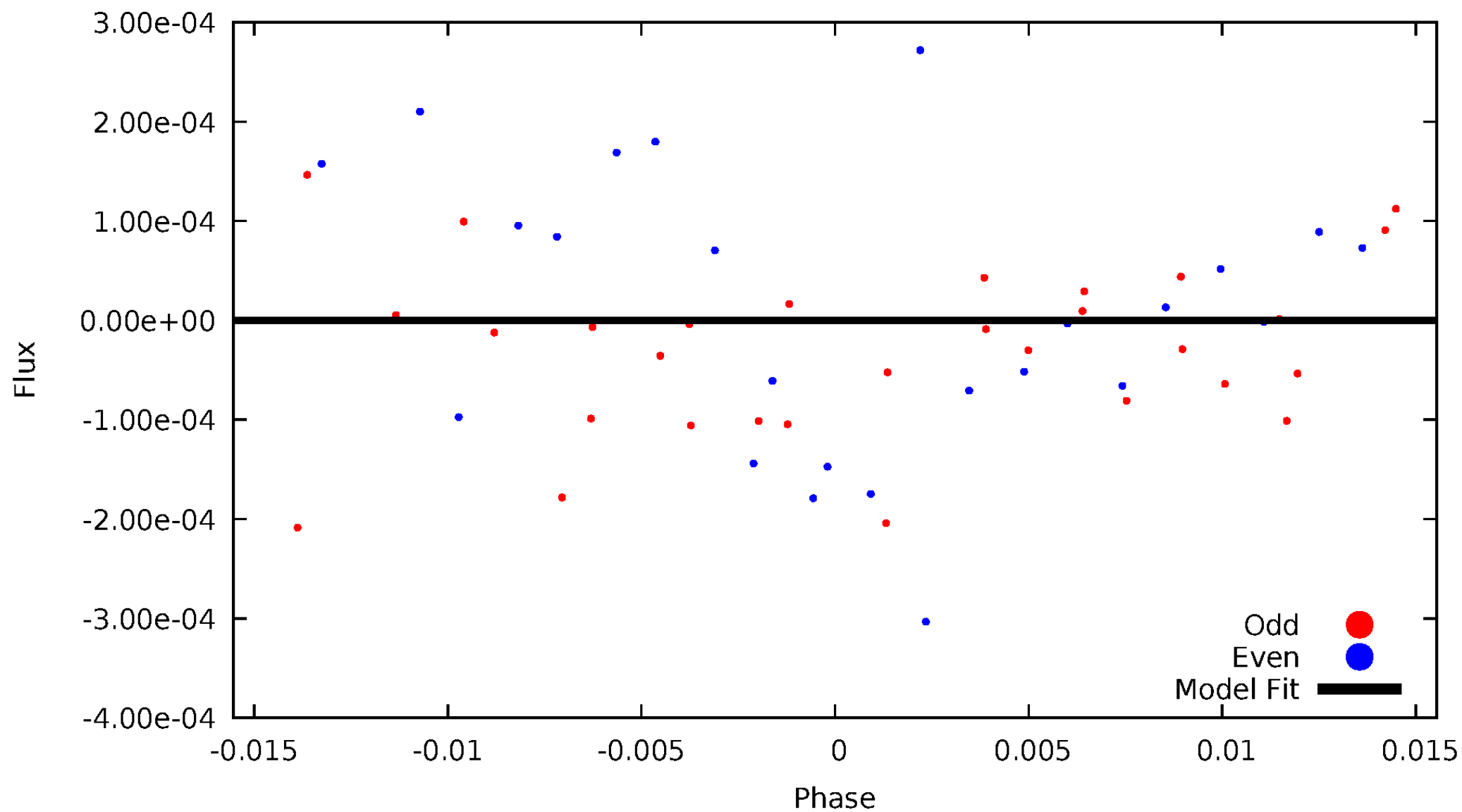


TCE 011967758-10



DV Odd/Even

TCE 011967758-10

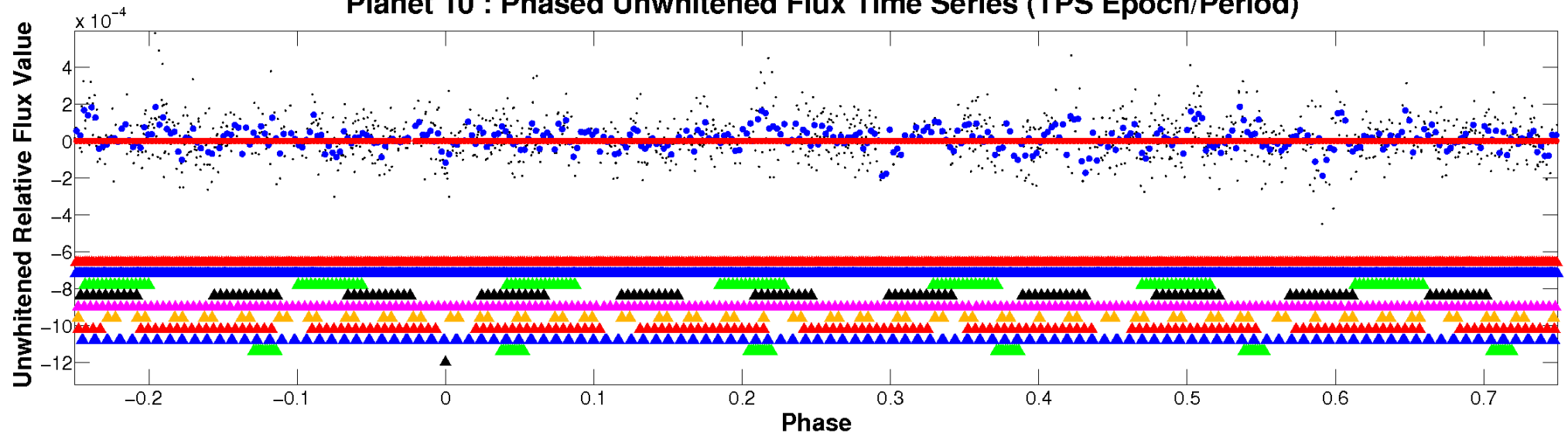


ALT Odd/Even

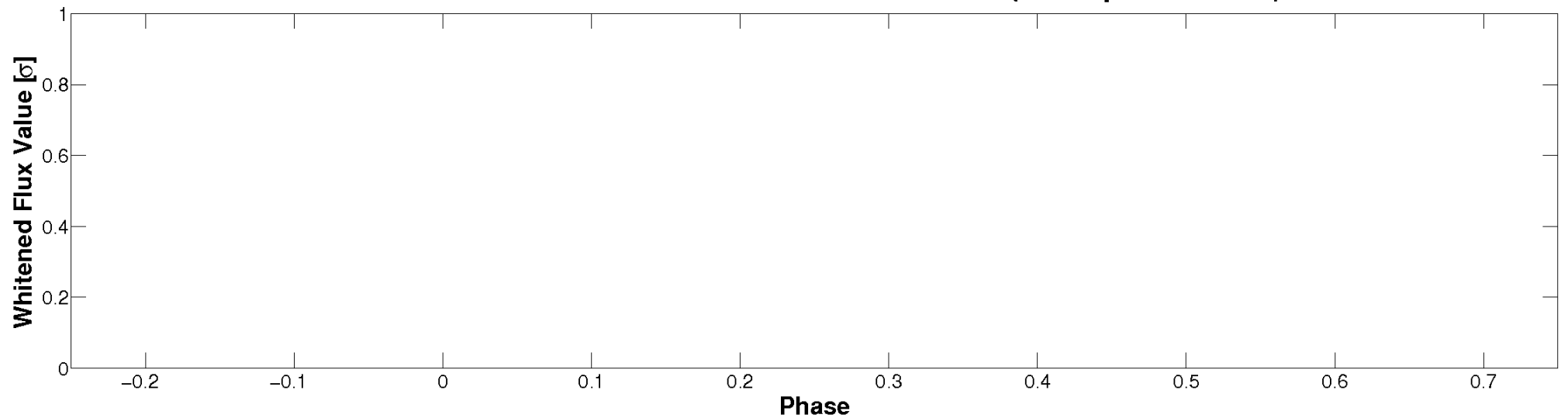
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 10 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

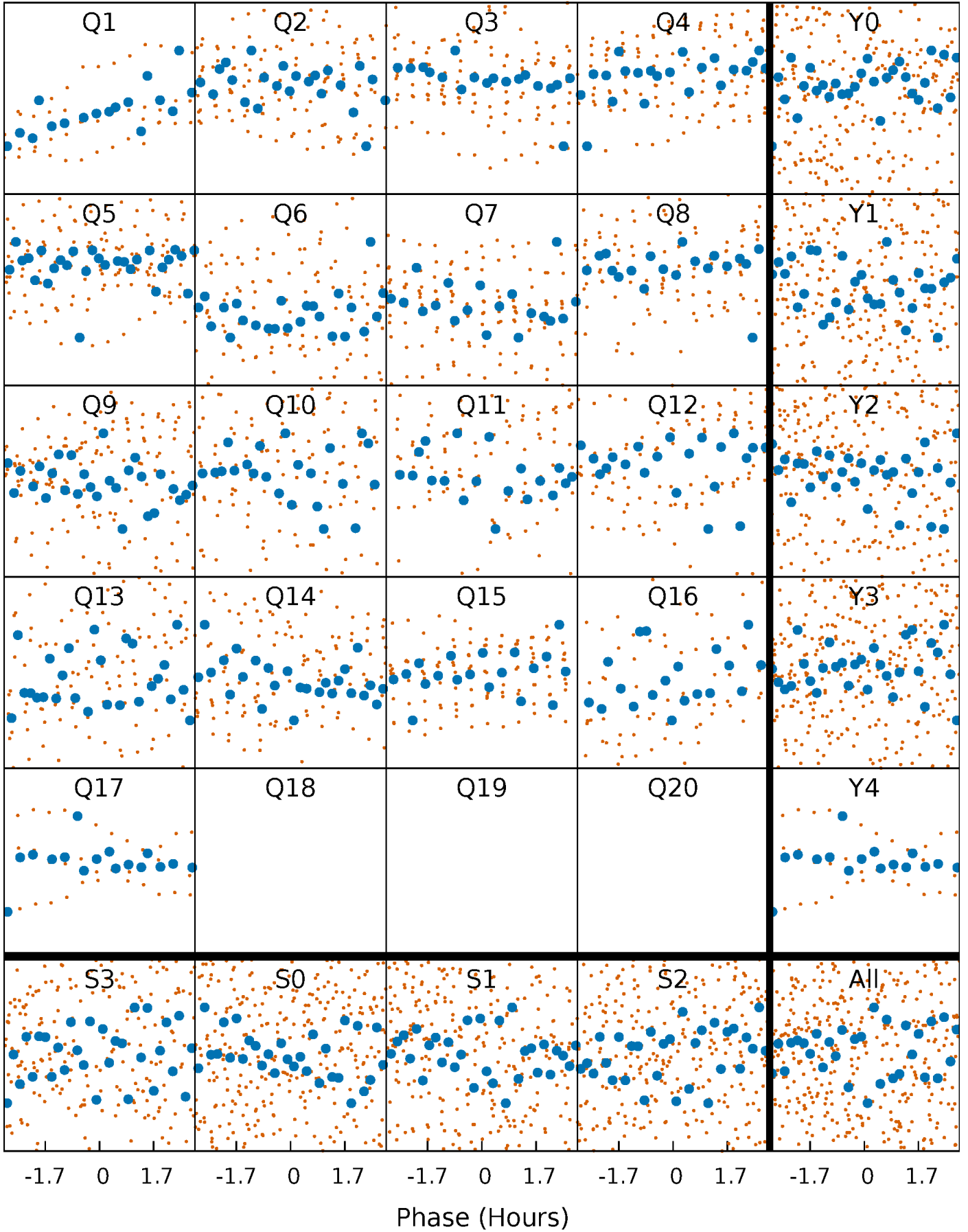


Planet 10 : Phased Whitened Flux Time Series (TPS Epoch/Period)



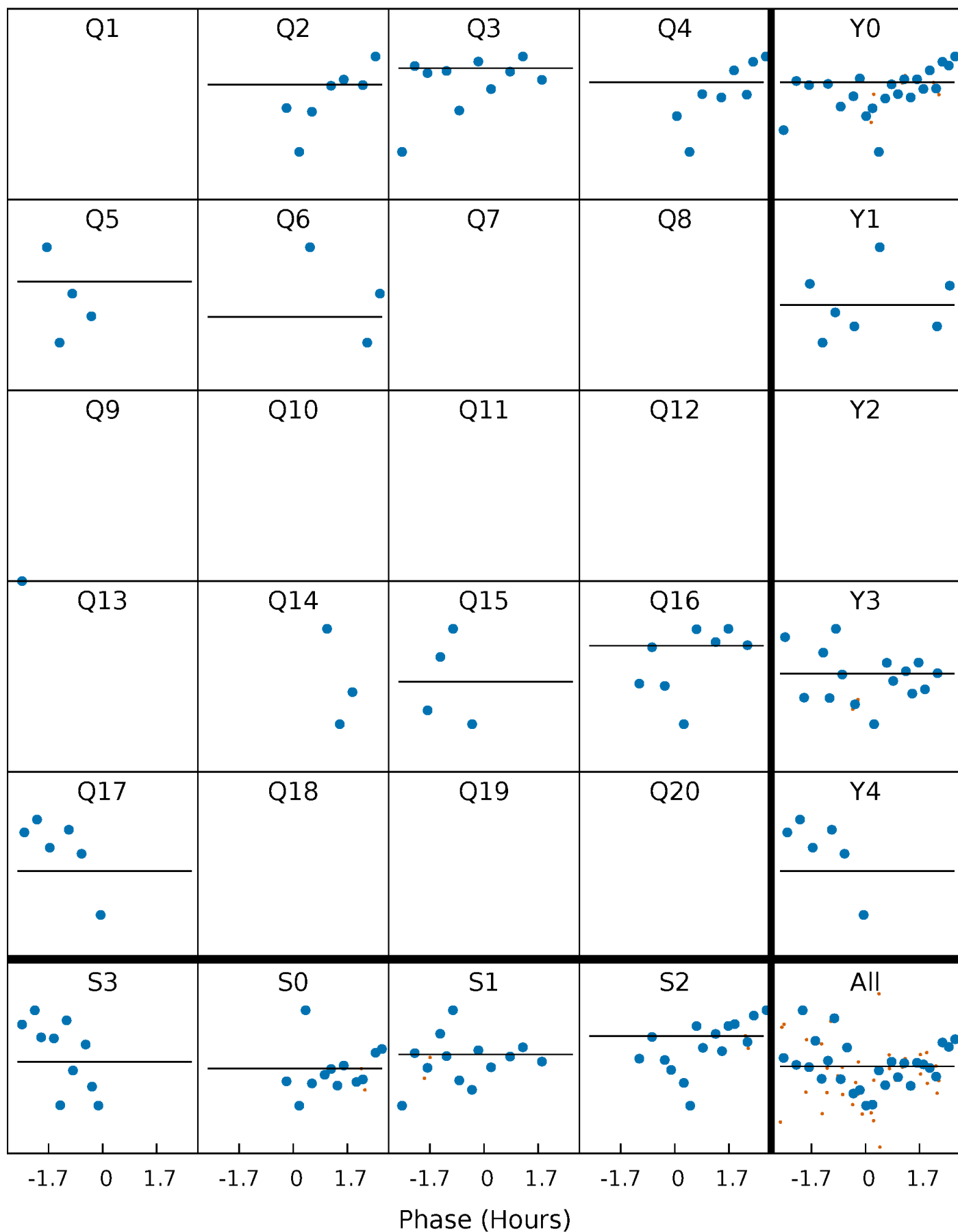
PDC Quarter-Phased Transit Curves

TCE 011967758-10 P= 8.050142 Days $T_0=133.048494$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011967758-10 P= 8.050142 Days $T_0=133.048494$ (BKJD)

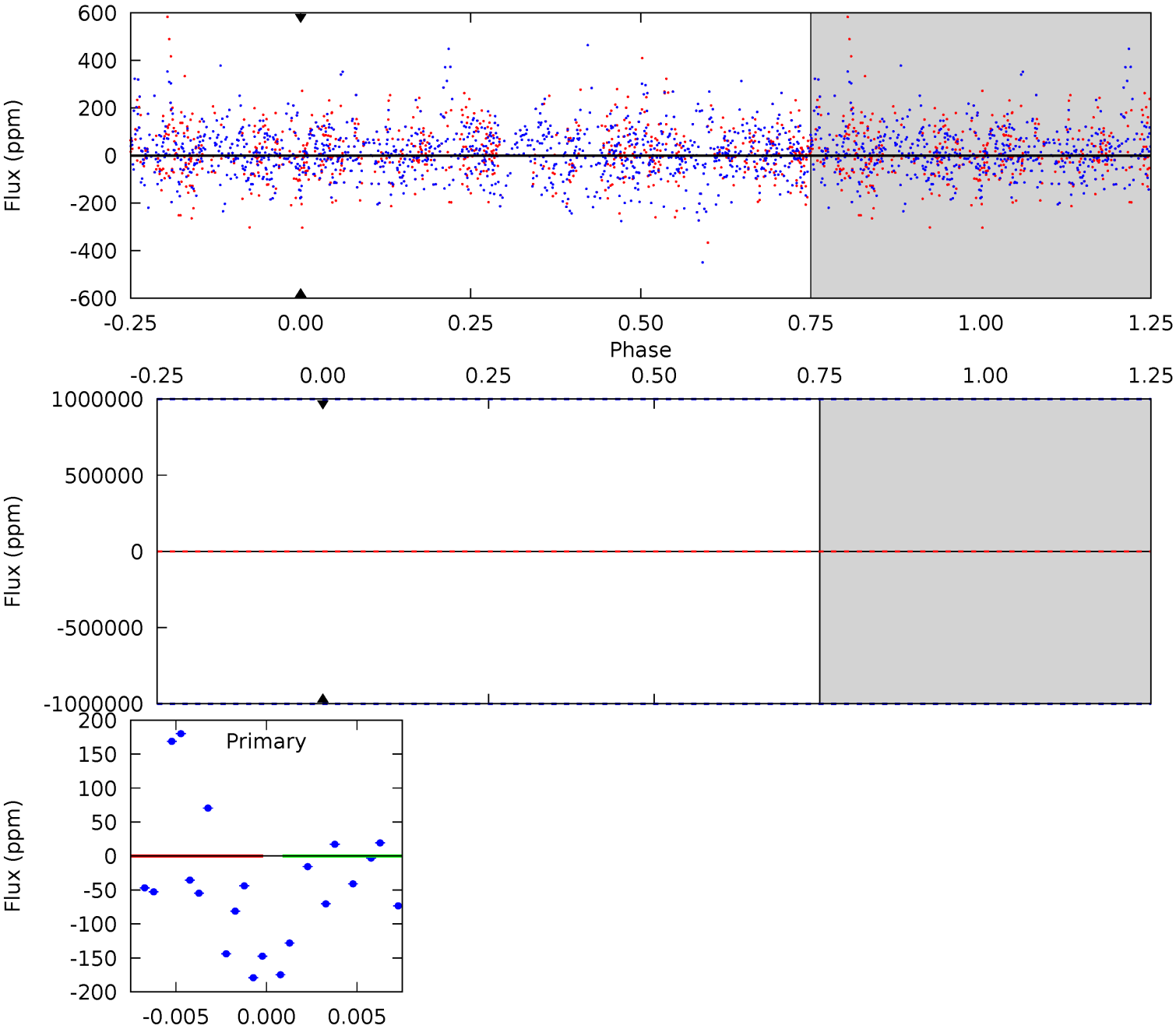


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

011967758-10, P = 8.050142 Days, E = 133.048494 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

This plot does not exist for this TCE.

Stellar Parameters For KIC 011967758

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7120^{+169}_{-233}	$3.590^{+0.315}_{-0.056}$	$0.070^{+0.200}_{-0.250}$	$3.847^{+0.348}_{-1.393}$	$2.100^{+0.163}_{-0.434}$	$0.052^{+0.118}_{-0.010}$
	+2%/-3%	+9%/-2%	+286%/-357%	+9%/-36%	+8%/-21%	+228%/-19%
Source	PHO1	FLK73	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 011967758-10 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$28.16^{+27.28}_{-19.80}$	2642^{+142}_{-229}	-3885^{+36795}_{-36192}	$-2.241^{+1127.143}_{-1389.668}$
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

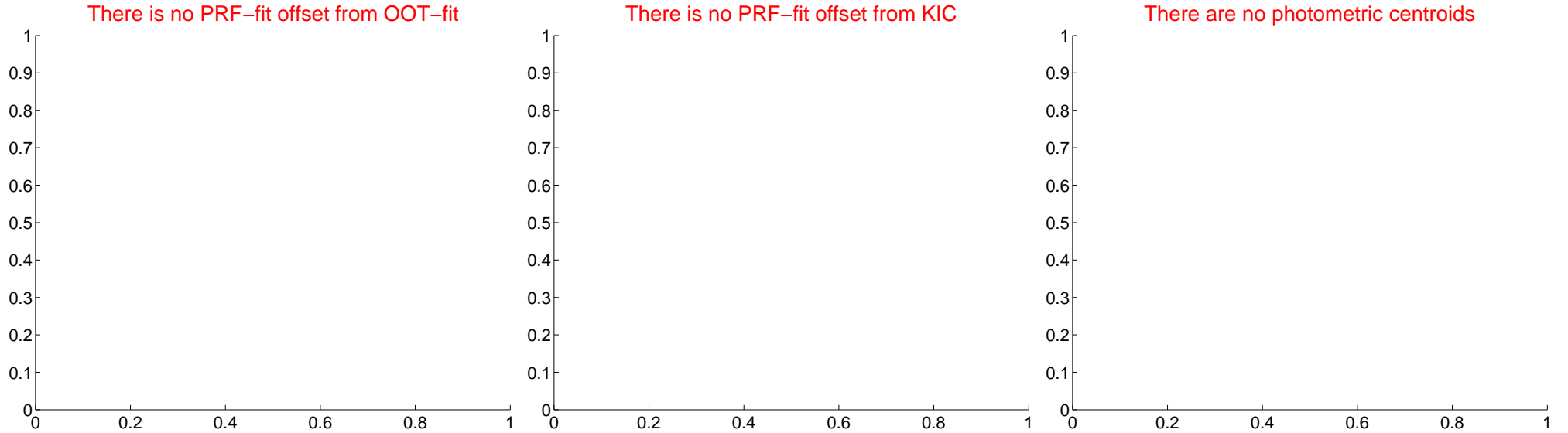
DV Centroid Data

Supplemental centroid analysis for 011967758-10. **Kepler magnitude: 11.66.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

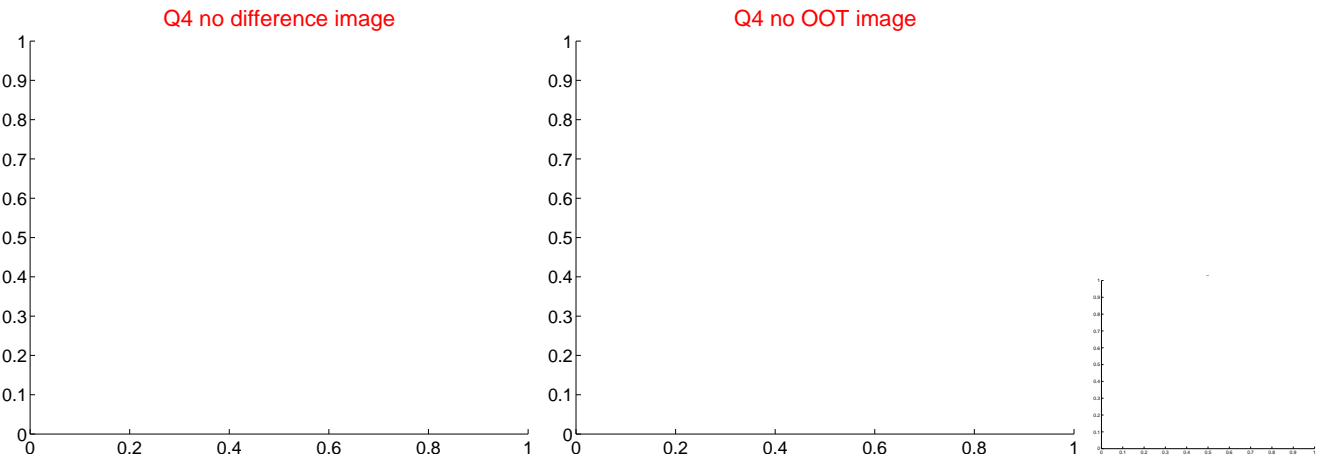
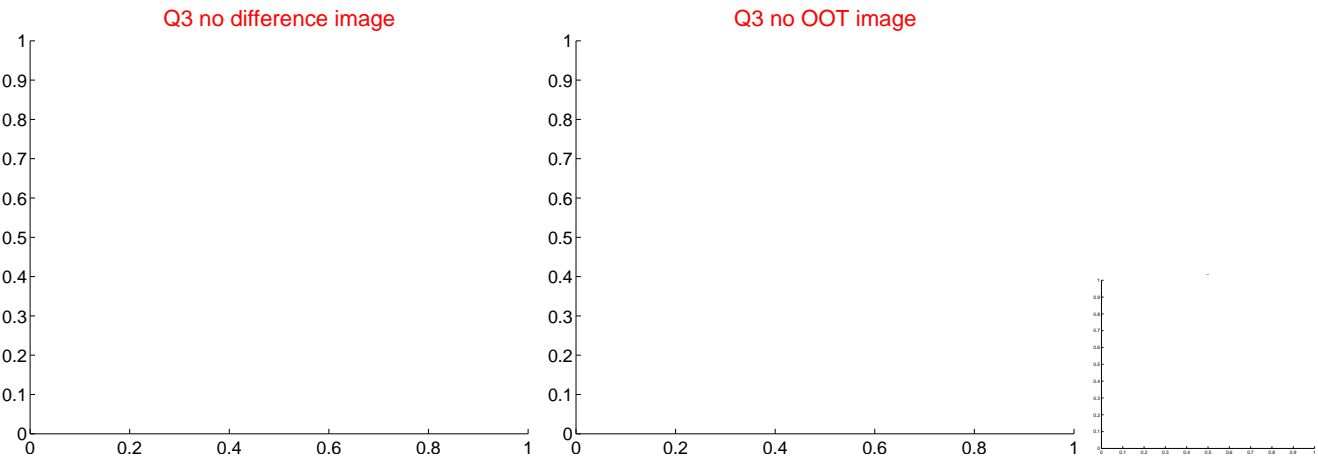
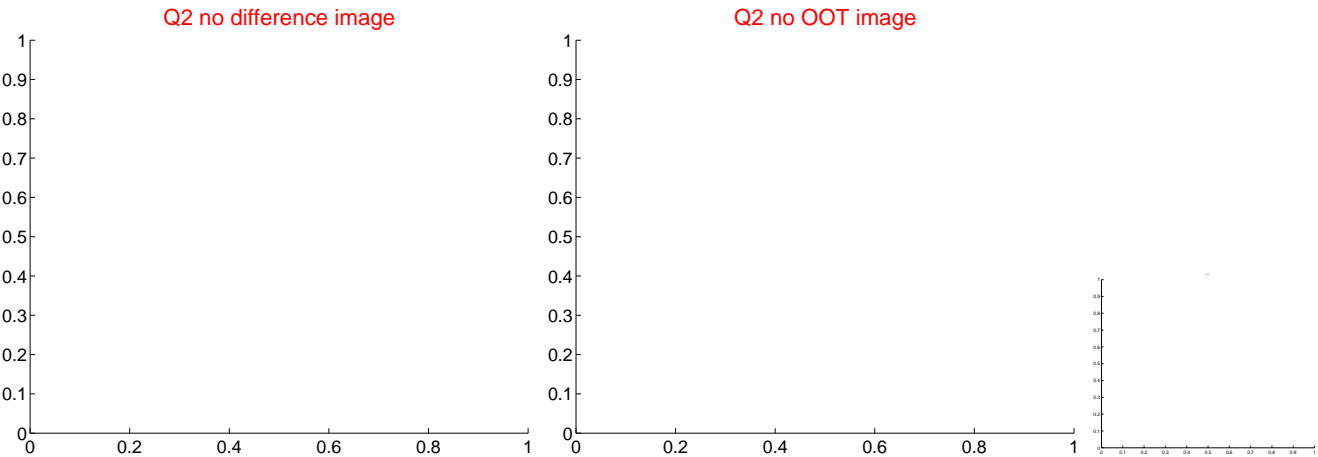
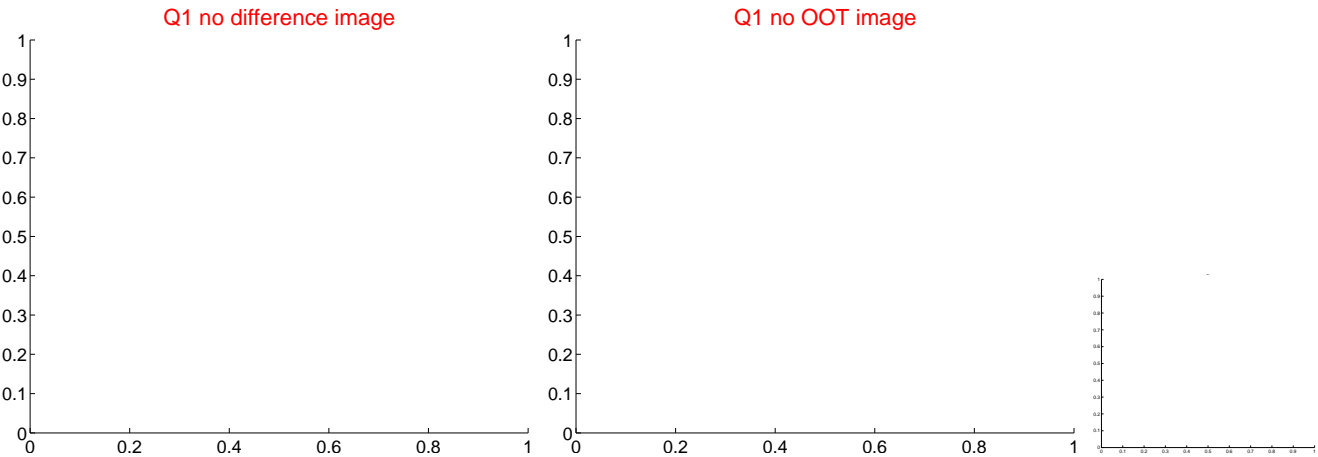
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	—	—	—	—

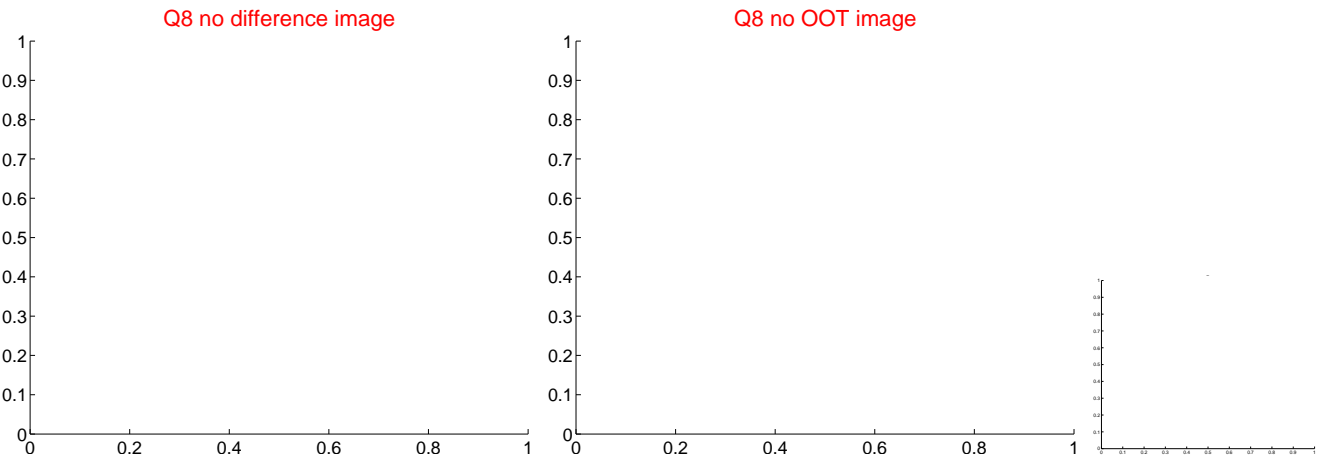
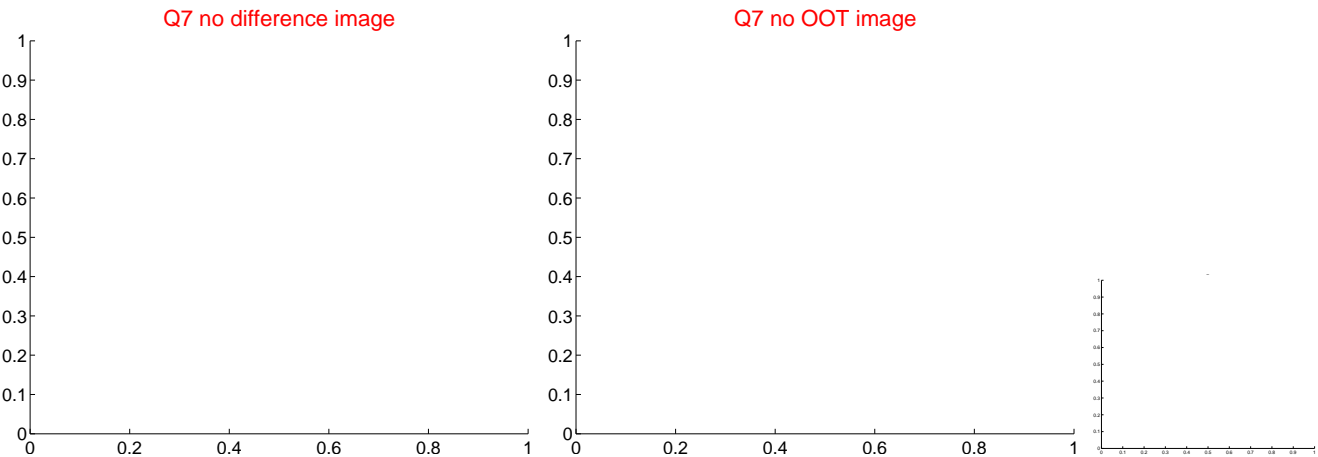
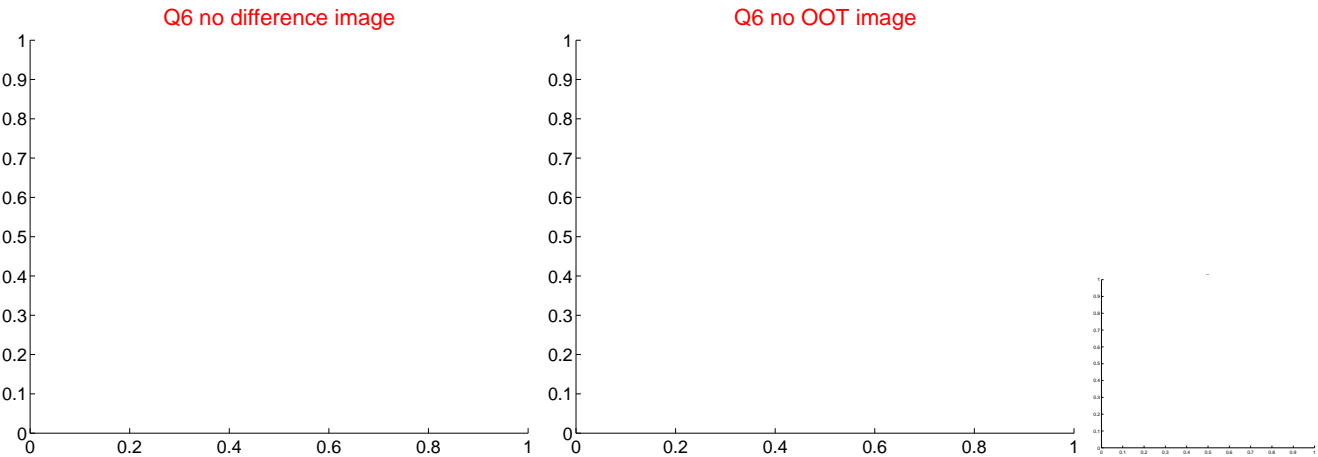
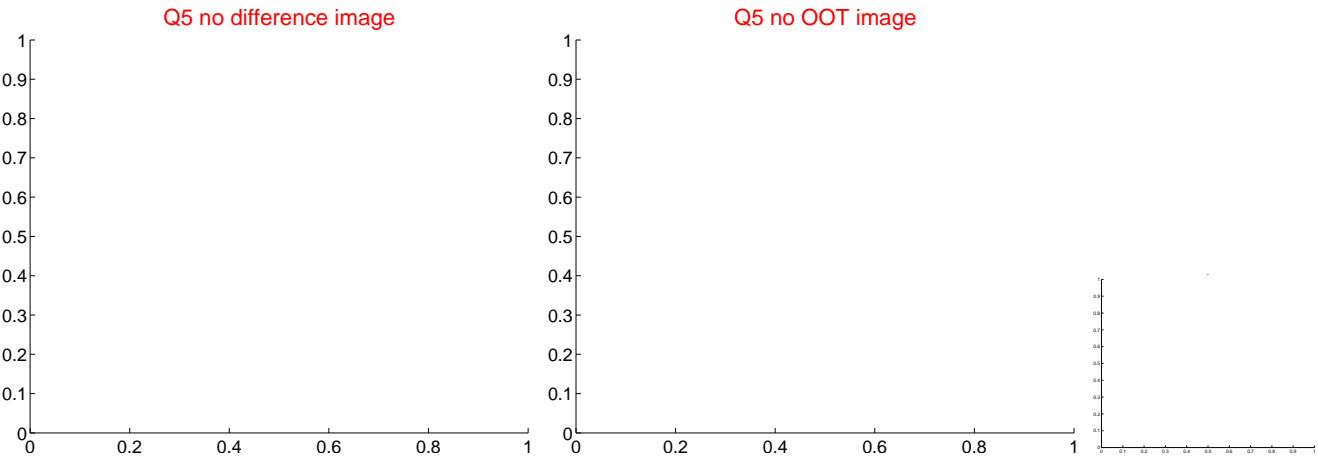


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

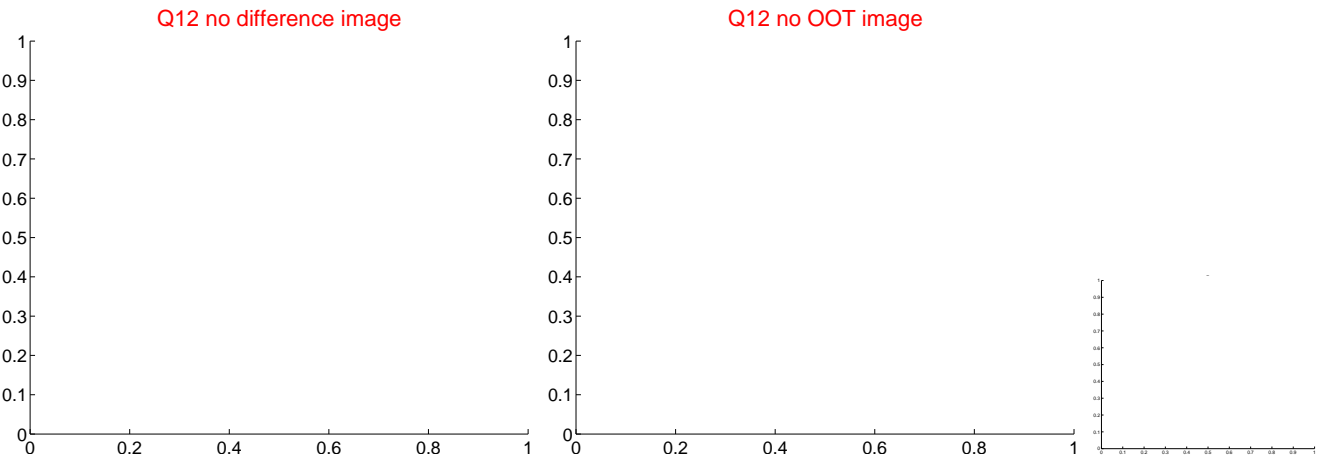
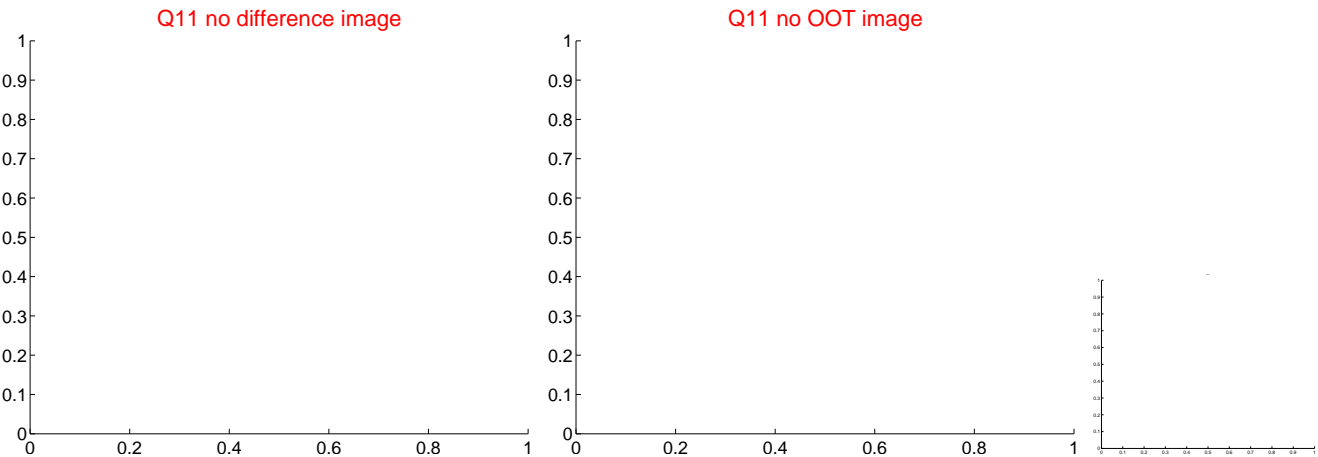
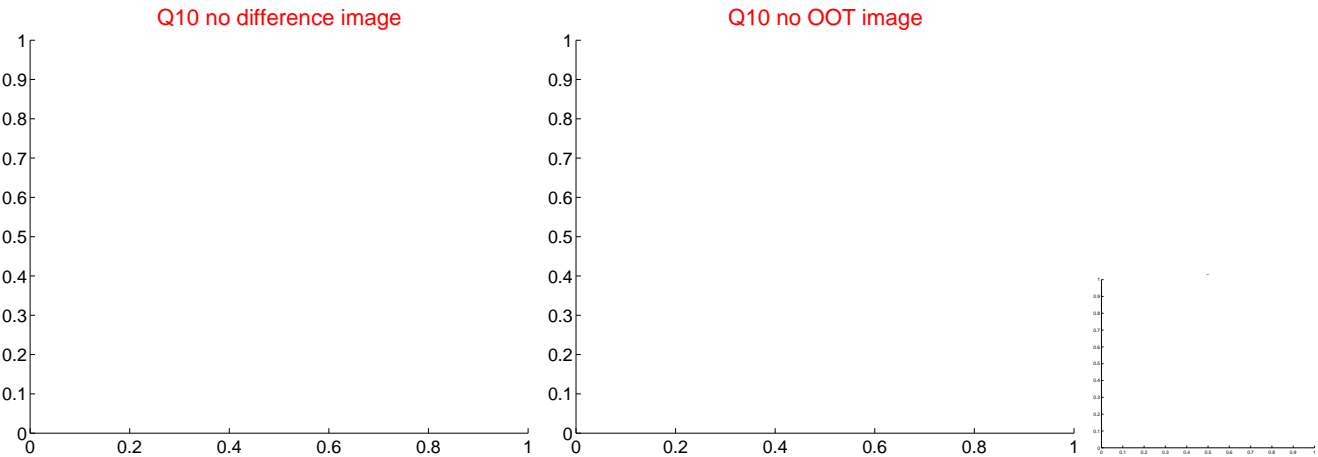
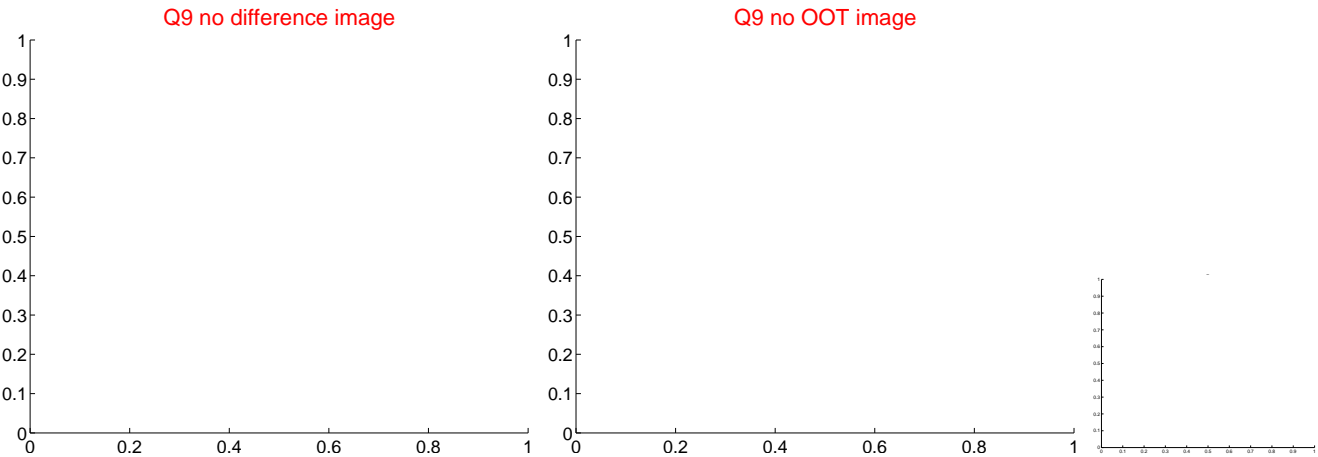
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



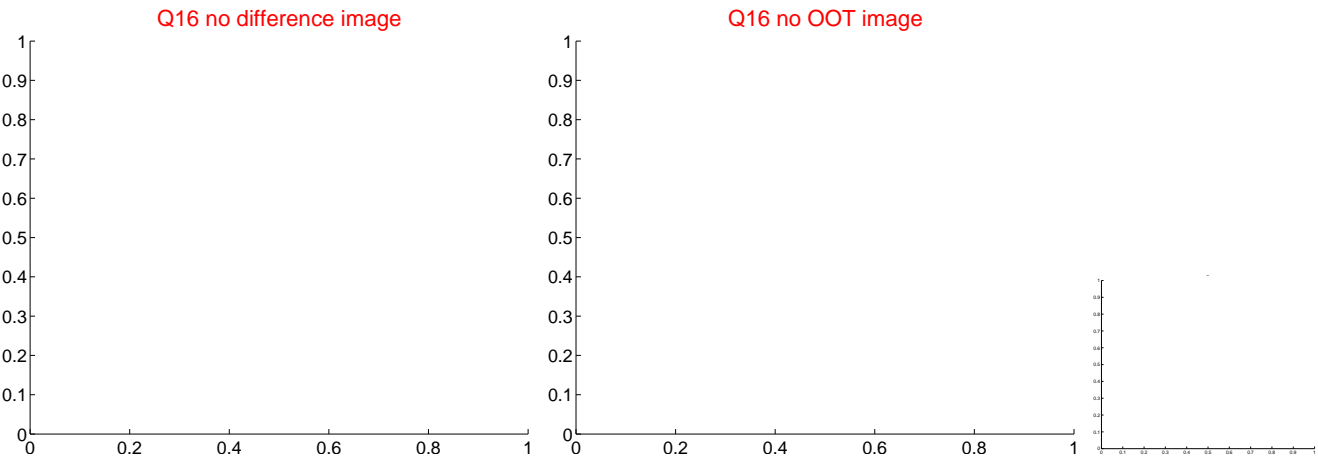
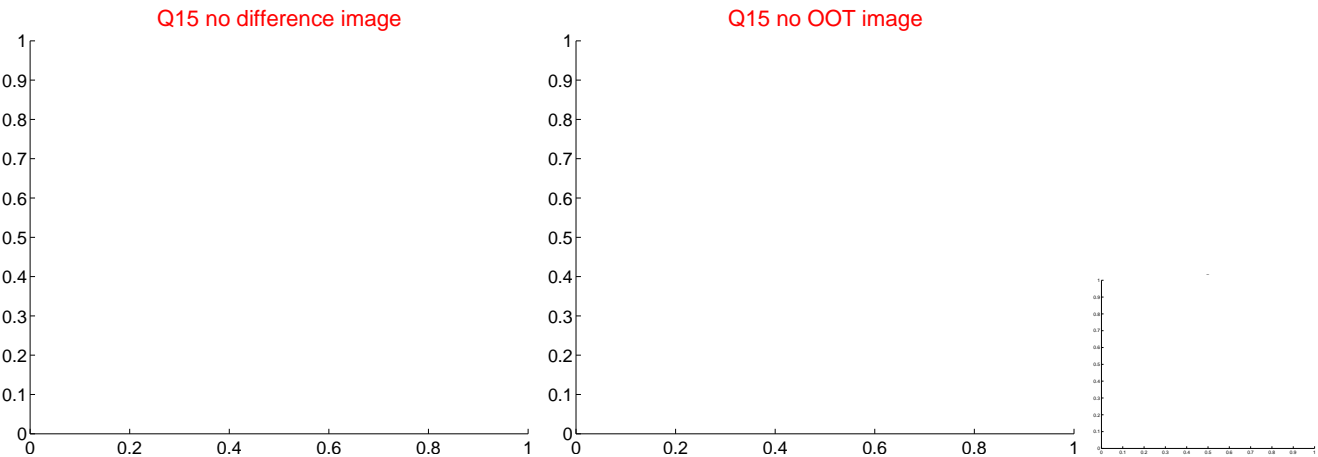
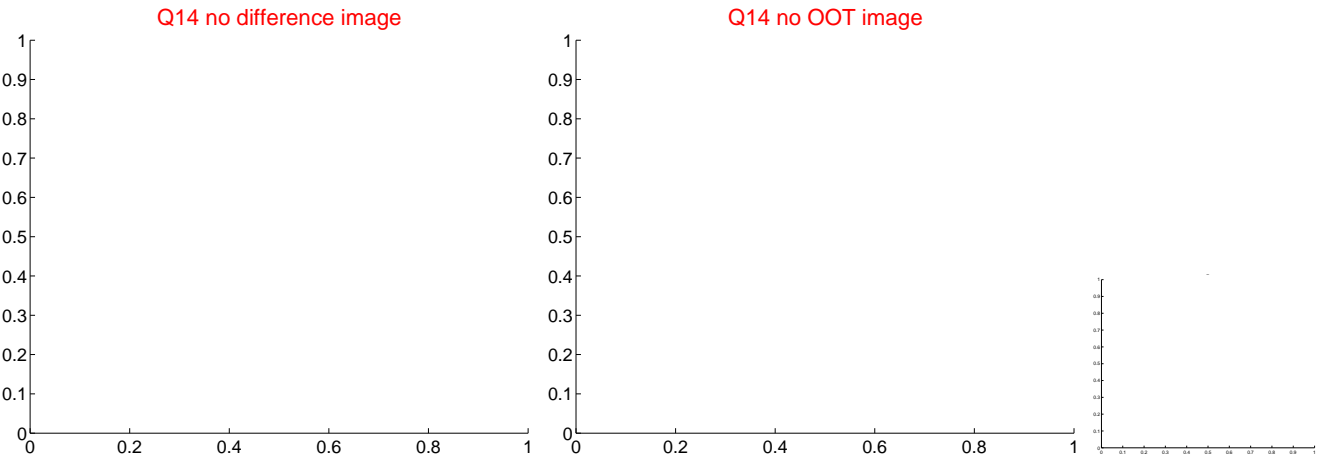
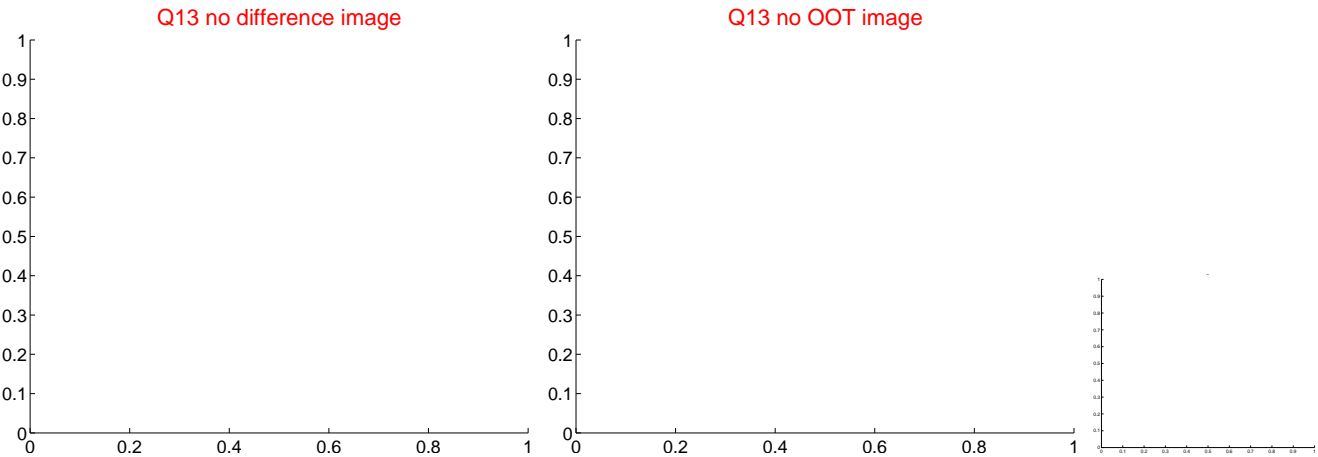
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



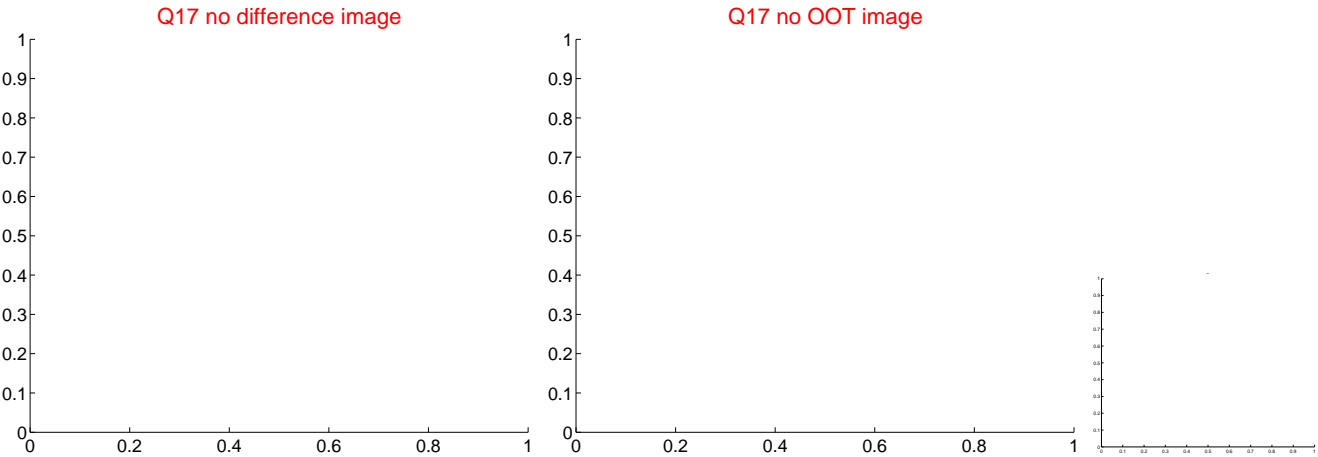
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



folded centroid time series figure for this object.

UKIRT Image

Declination

