

KIC 008380088

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})
008380088-01	OBS	No	0.664840	132.053481	16.8	5.067	10.7	6.4	7.88	6967	3.29	0.00
008380088-02	OBS	No	3.699405	133.023020	213.1	2.607	12.8	17.4	7.88	6967	12.45	29996.38
008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
008380088-06	OBS	No	5.229491	132.991932	425.1	1.320	12.9	18.7	7.88	6967	16.43	18907.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008380088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

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

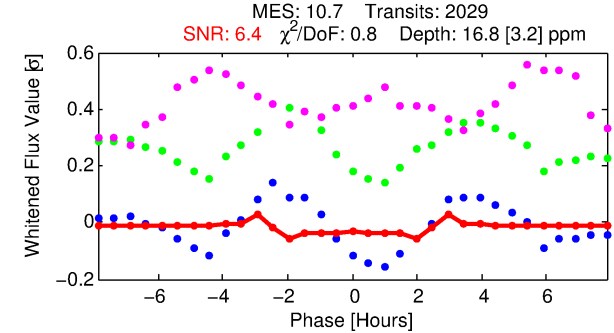
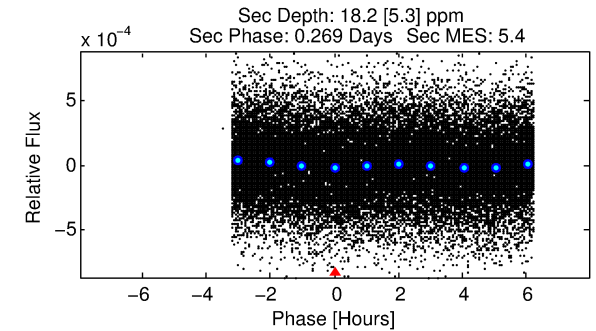
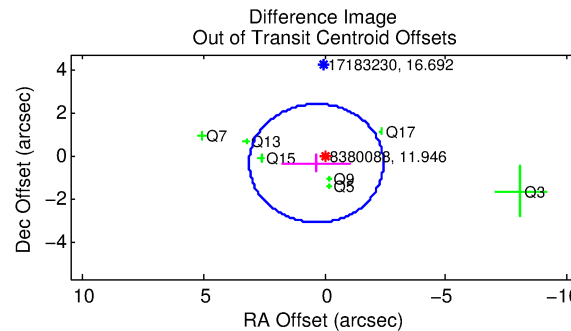
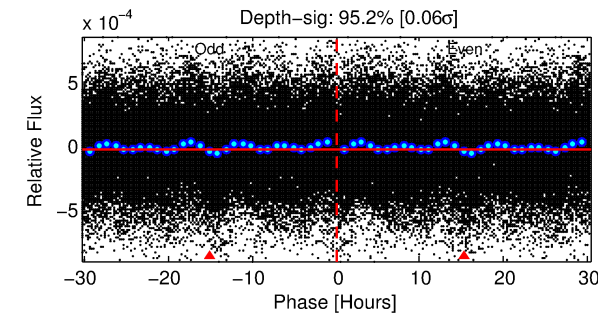
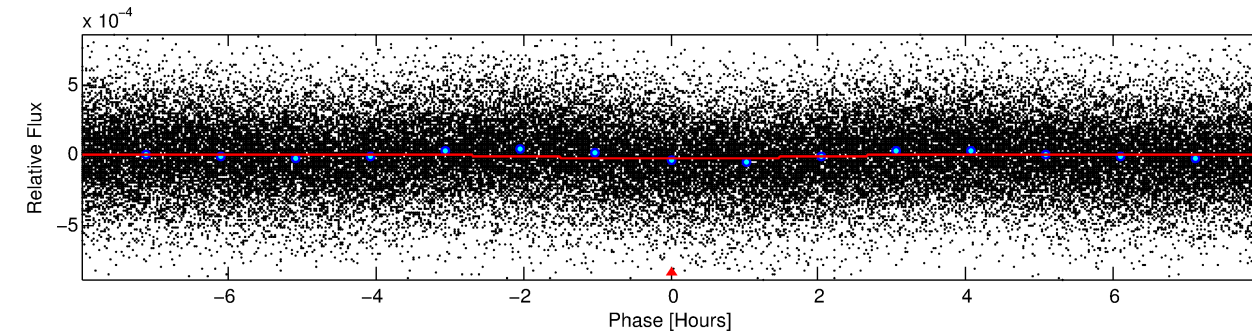
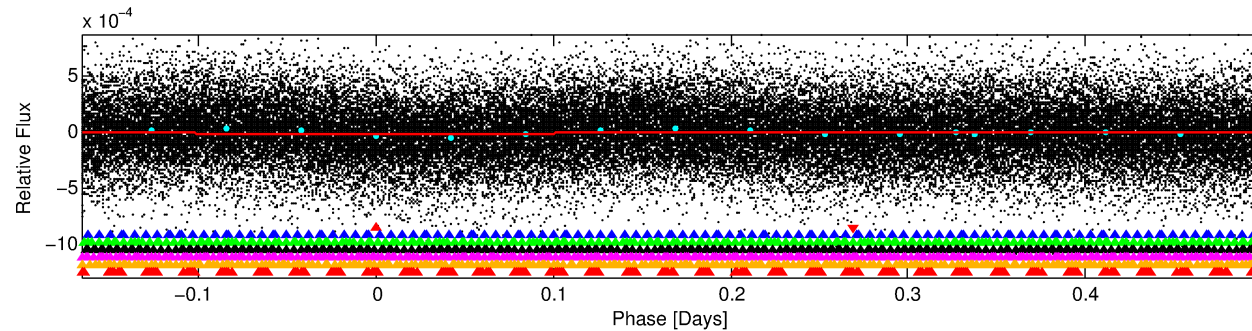
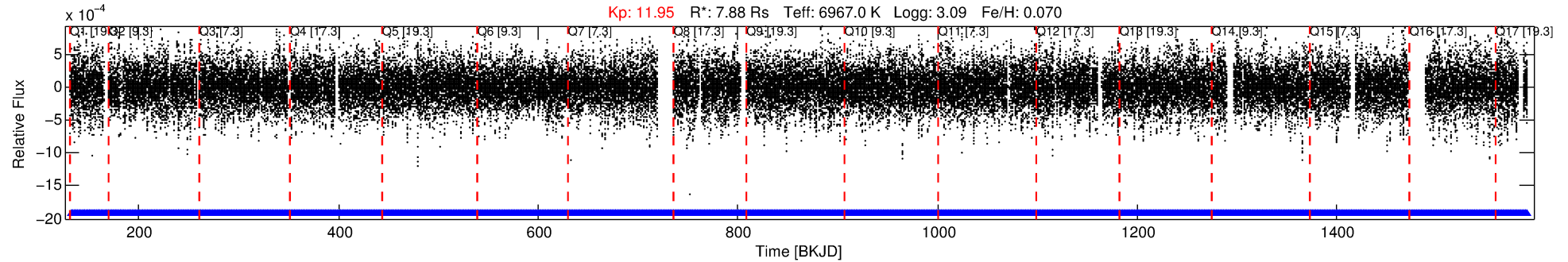
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008380088-01

No Significant Match Found

DV One-Page Summary

KIC: 8380088 Candidate: 1 of 7 Period: 0.665 d



DV Fit Results:

Period = 0.66484 [0.00002] d
Epoch = 132.0535 [0.0029] BKJD
Rp/R* = 0.0038 [0.0018]
a/R* = 1.17 [0.84]
b = 0.36 [6.41]
Seff = N/A
Teq = N/A
Rp = 3.29 [2.45] Re
a = N/A
Ag = N/A
Teffp = N/A

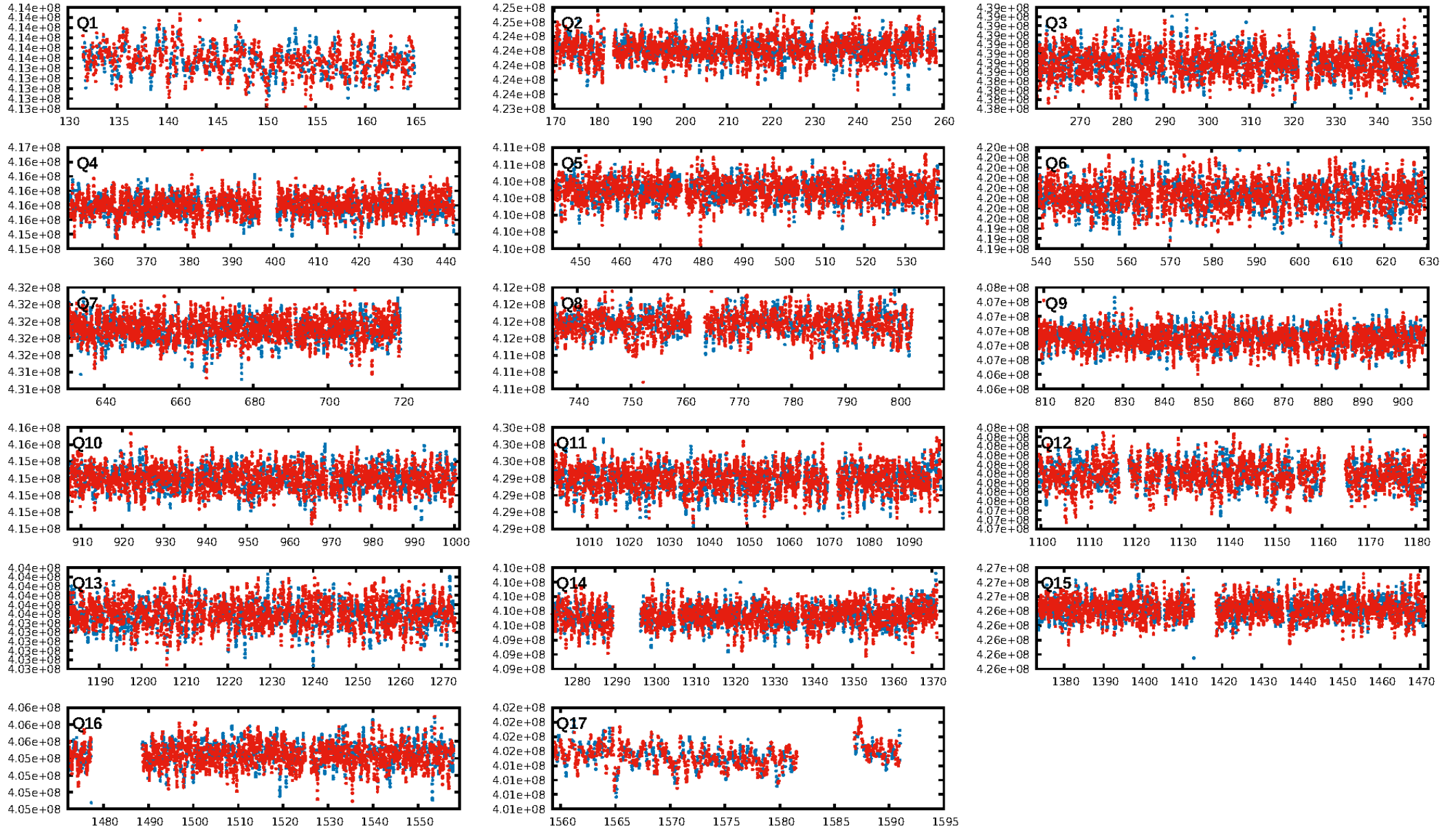
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [8.94 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 6.21e-04
RollingBand-fgt: 1.00 [1938/1938]
GhostDiagnostic-chr: 1.244
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.485 arcsec [0.52 σ]
KicOffset-rm: 0.411 arcsec [0.32 σ]
OotOffset-st: 0/3/0/4 [7]
KicOffset-st: 0/3/0/4 [7]
DiffImageQuality-fgm: 0.43 [3/7]
DiffImageOverlap-fno: 1.00 [17/17]

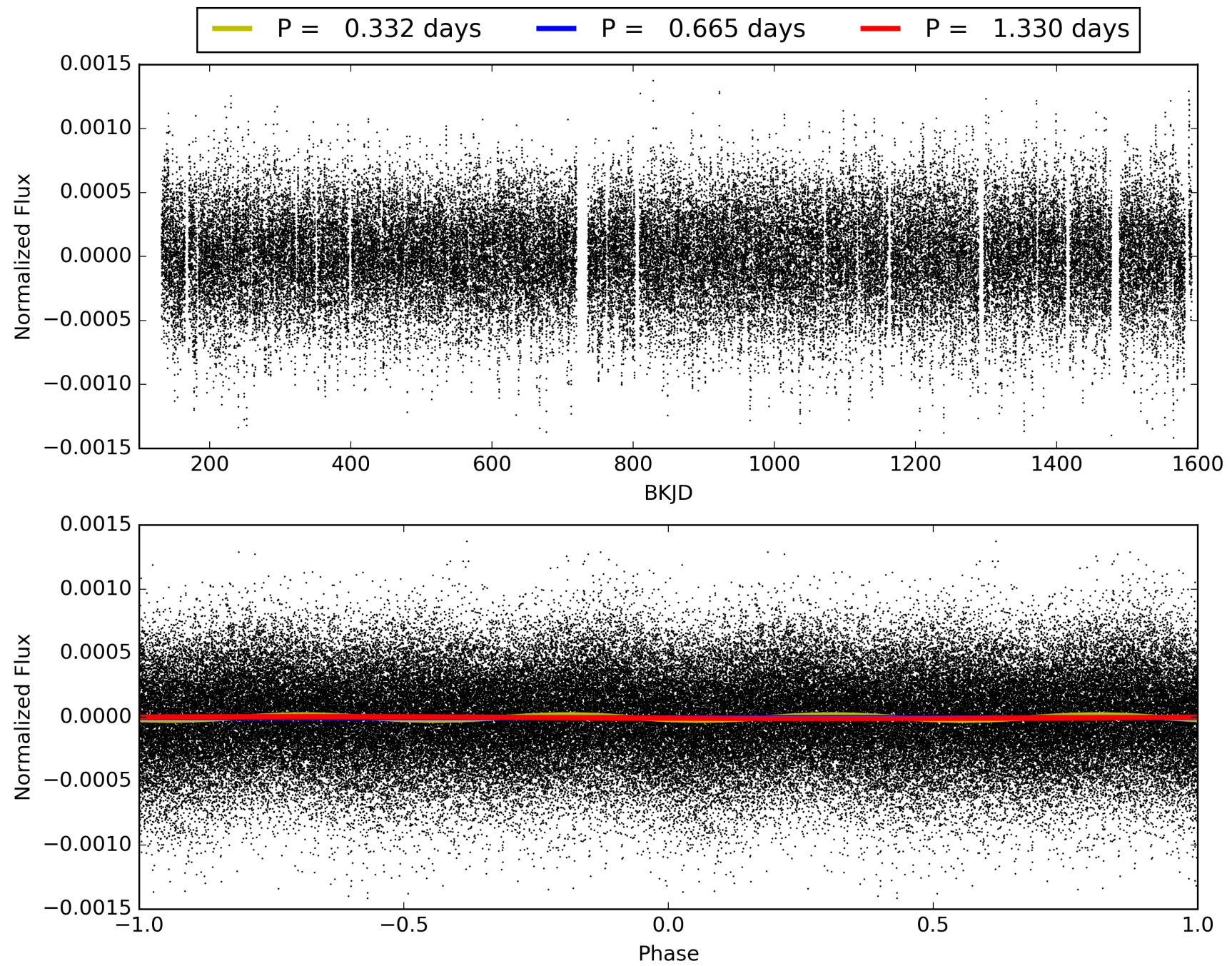
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:54:09 Z

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

TCE 008380088-01, PDC Light Curves

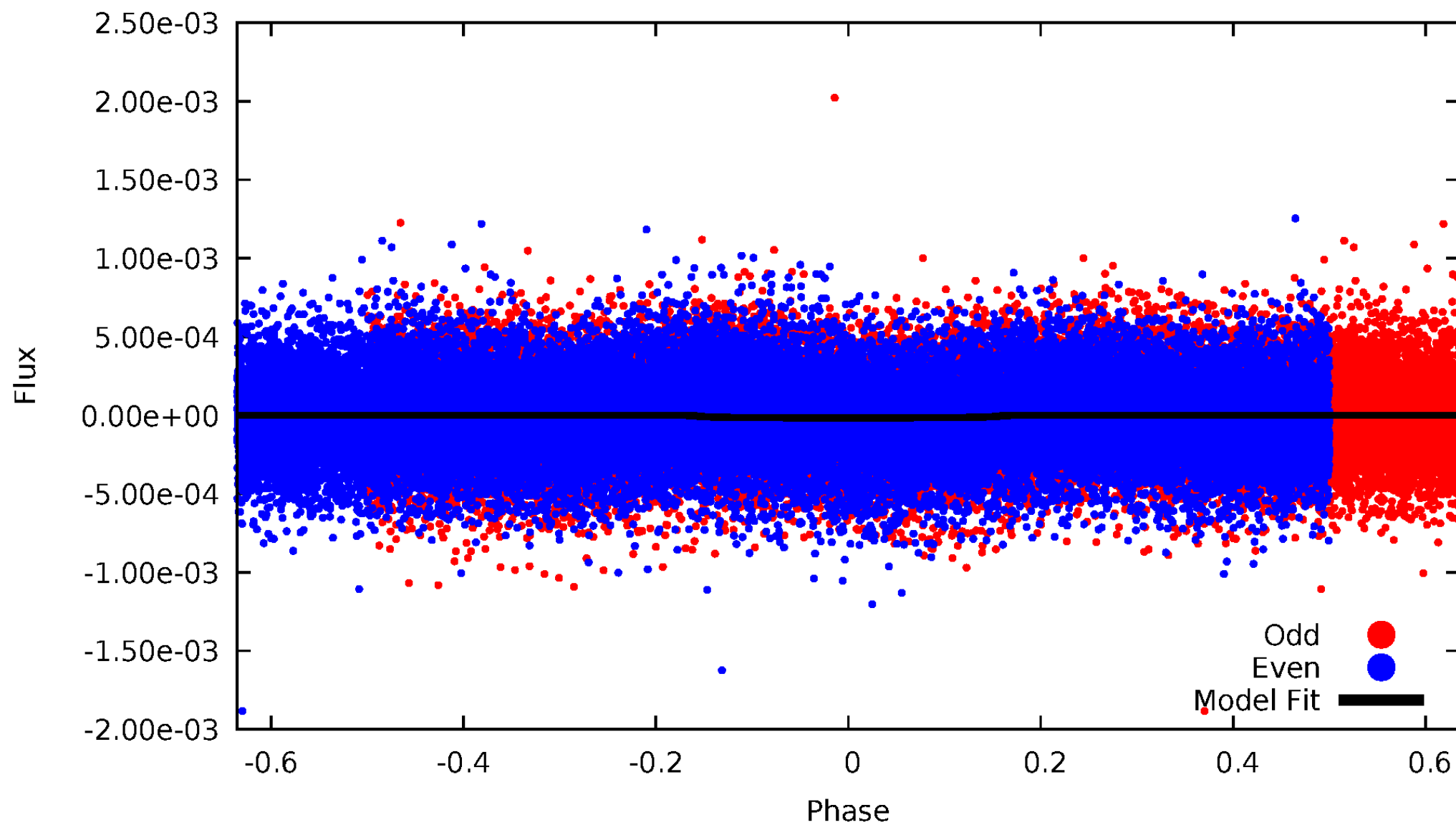


TCE 008380088-01



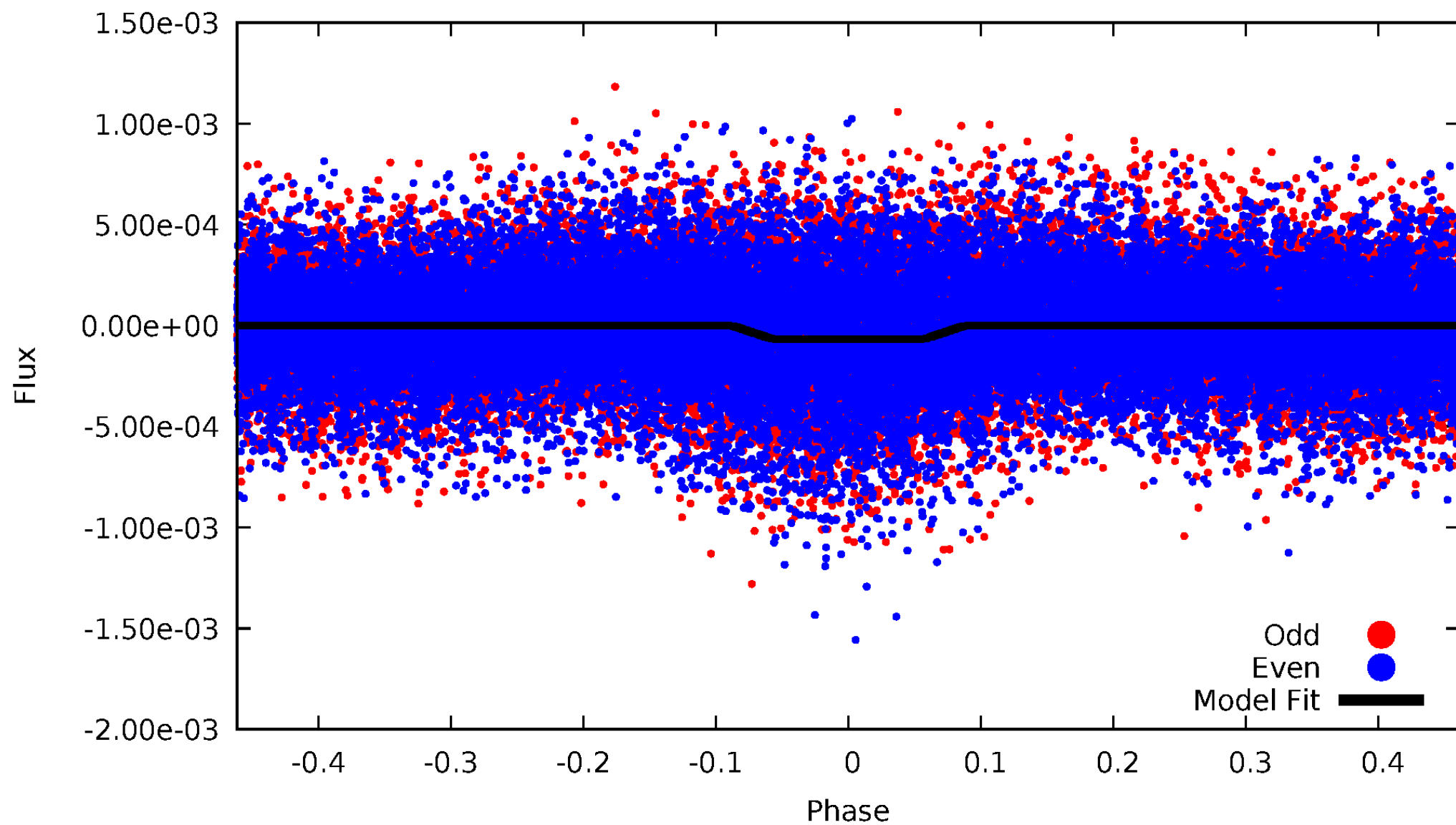
DV Odd/Even

TCE 008380088-01

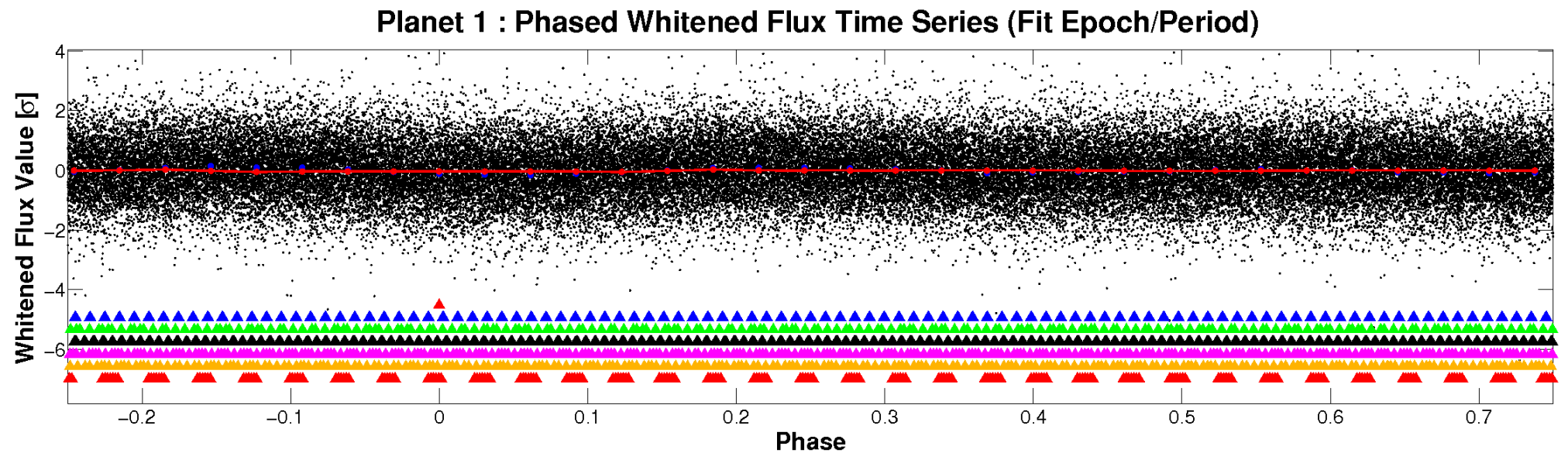
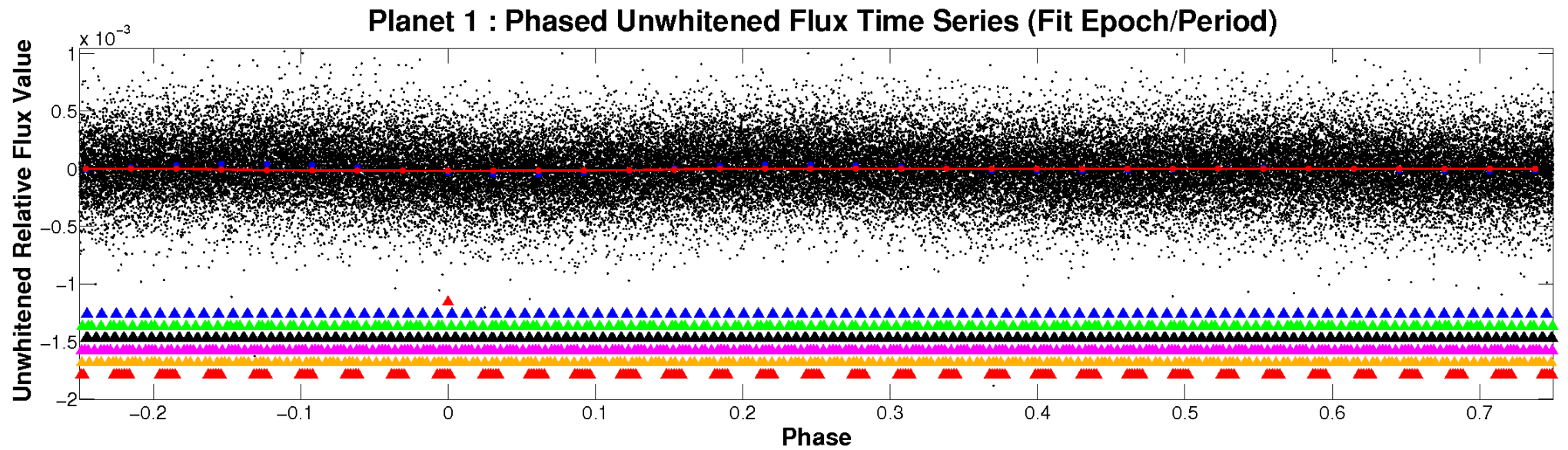


ALT Odd/Even

TCE 008380088-01

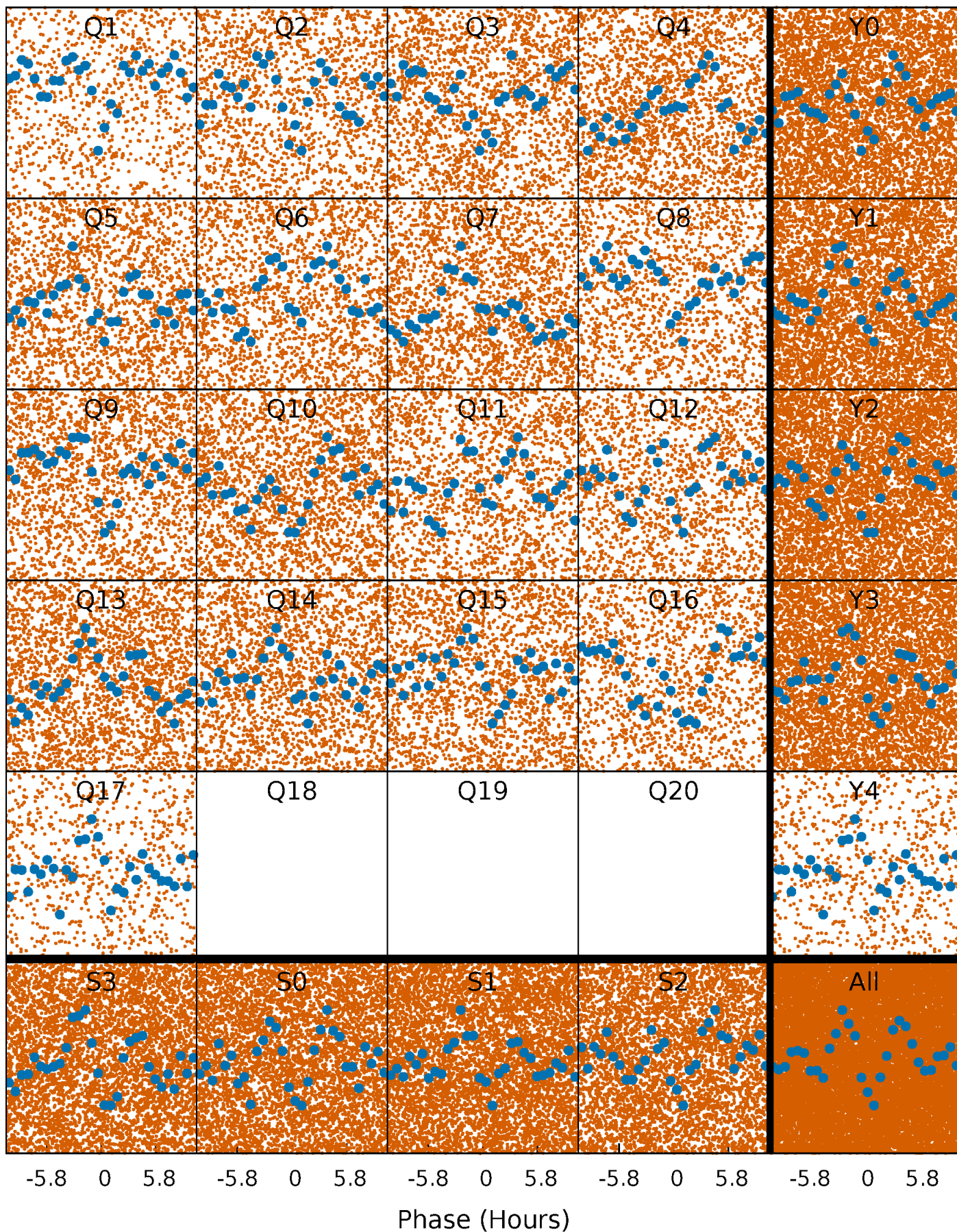


Non-Whitened Vs. Whitened Light Curve



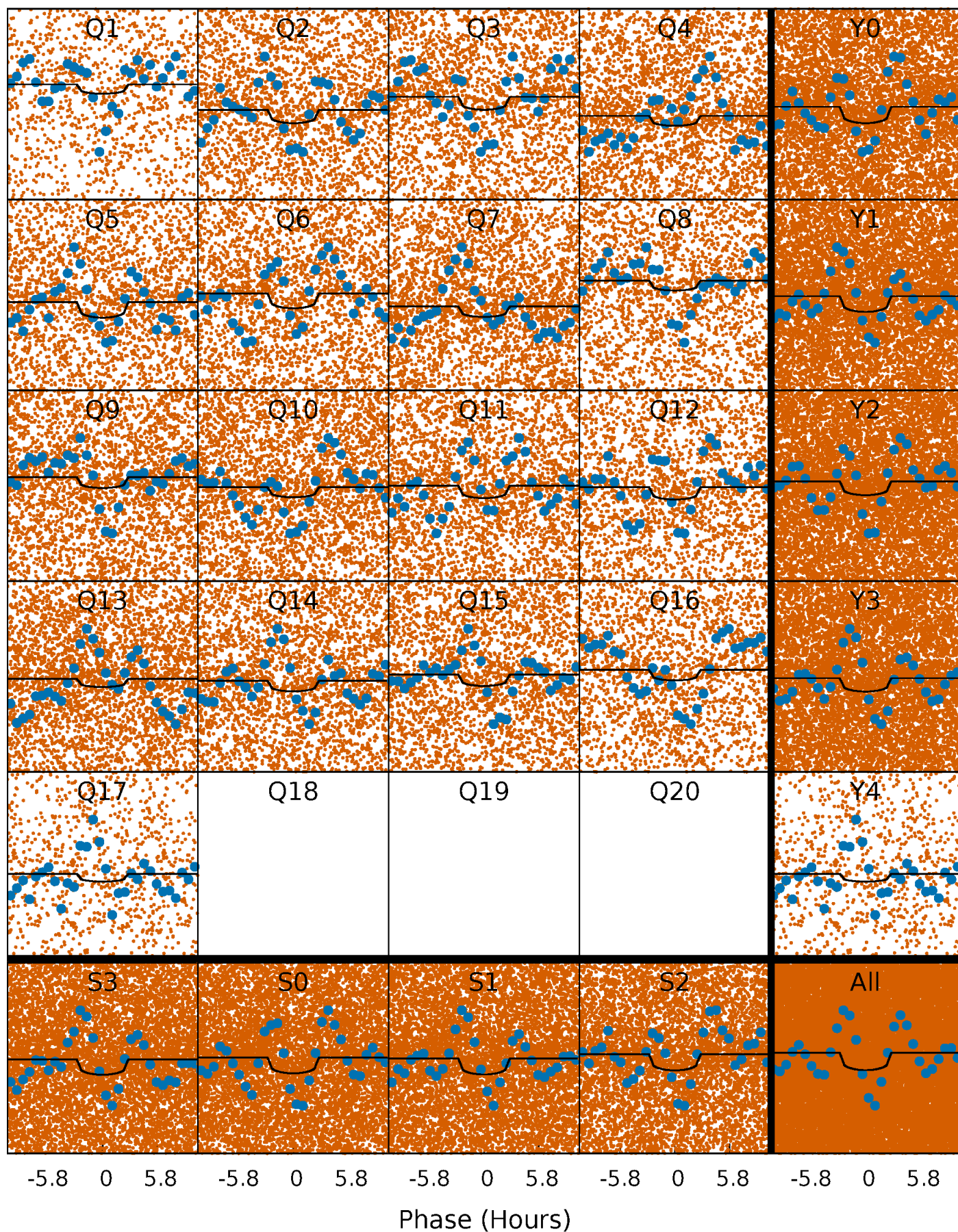
PDC Quarter-Phased Transit Curves

TCE 008380088-01 P= 0.664840 Days $T_0=132.053481$ (BKJD)



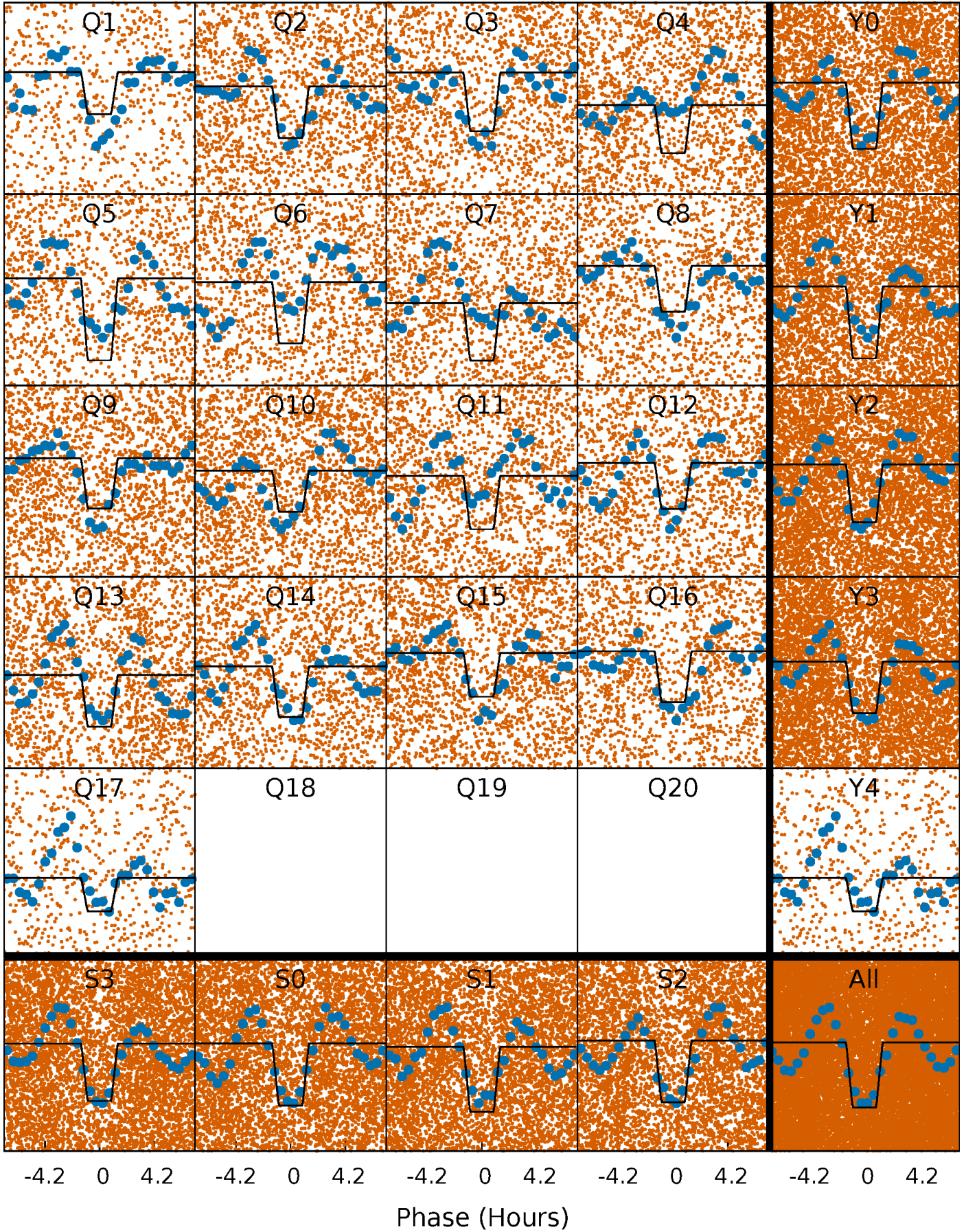
DV Quarter-Phased Transit Curves

TCE 008380088-01 P= 0.664840 Days $T_0=132.053481$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

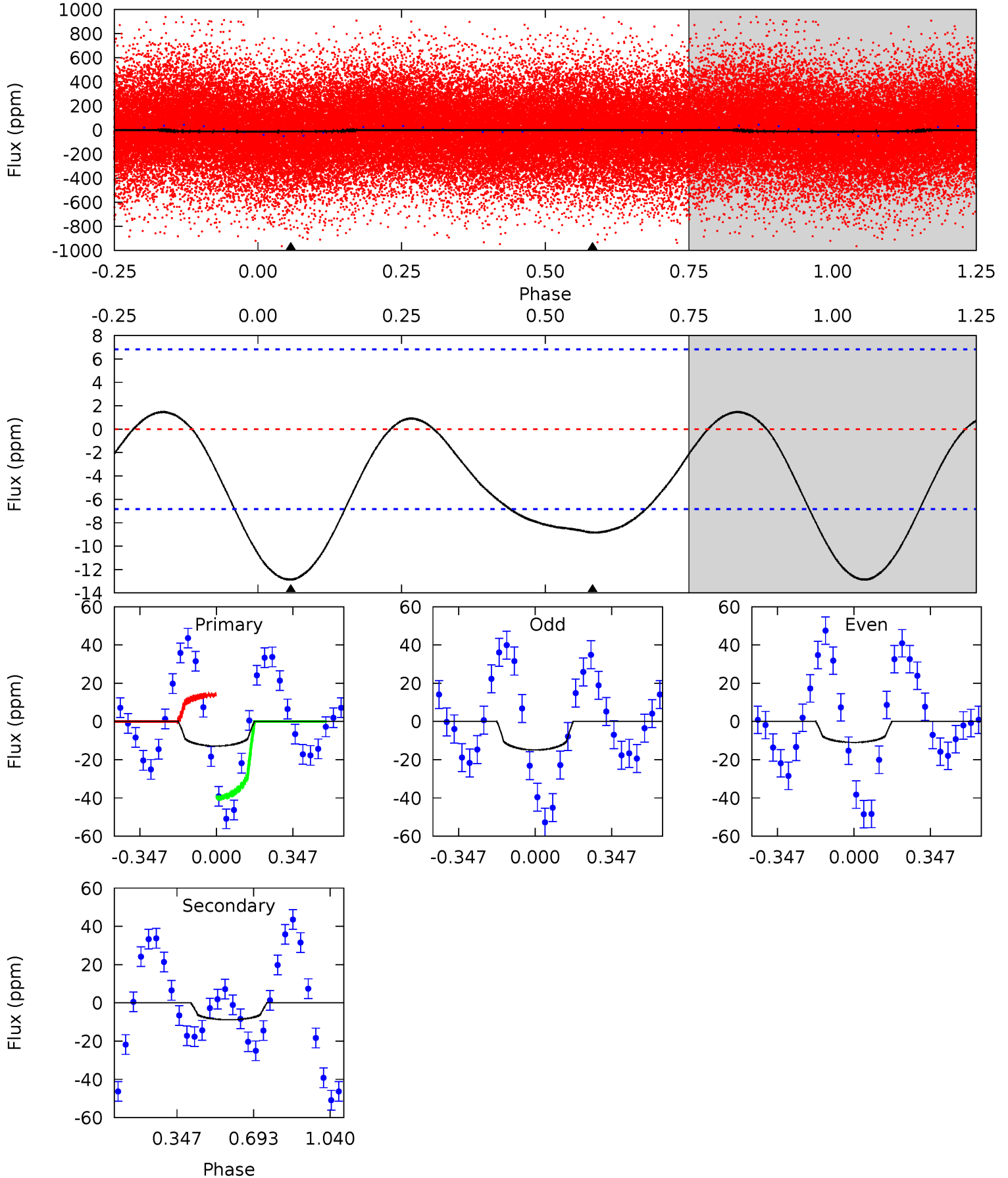
TCE 008380088-01 P= 0.664872 Days $T_0=132.049478$ (BKJD)



DV Model-Shift Uniqueness Test

008380088-01, P = 0.664840 Days, E = 131.388641 Days

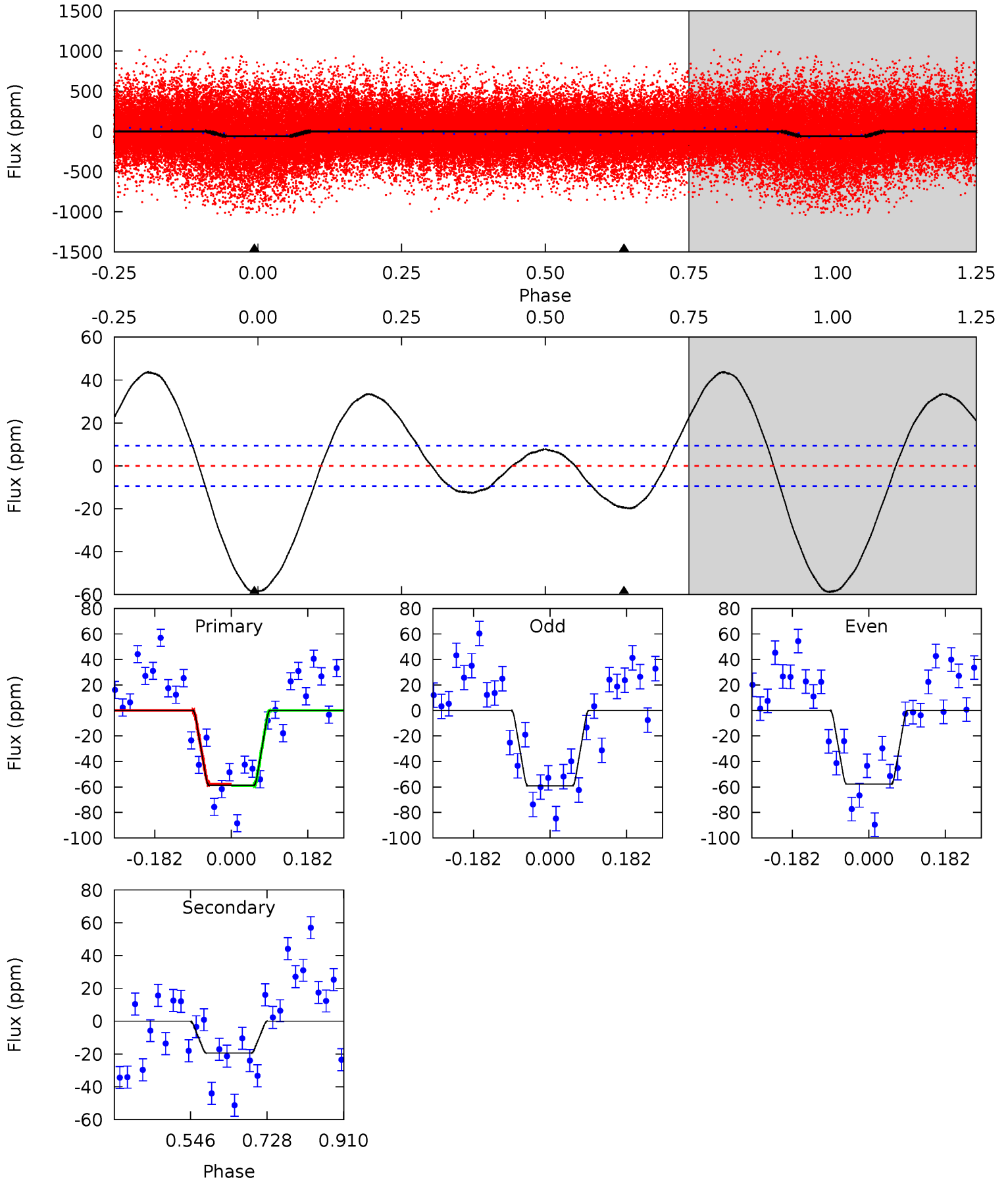
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.09	5.56	0	0	4.30	0.94	0.86	8.09	8.09	5.56	5.56	1.26	3.01	0.10	8.22



Alt Model-Shift Uniqueness Test

008380088-01, P = 0.664872 Days, E = 131.384606 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.5	9.12	0	0	4.44	1.33	7.75	27.5	27.5	9.12	9.12	0.33	1.26	0.43	0.24



Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-9 ± 2	$2.72^{+1.71}_{-1.28}$	7982^{+648}_{-1177}	-3665^{+11076}_{-2389}	$0.277^{+0.698}_{-0.174}$
Alt.	-19 ± 2	$6.29^{+2.21}_{-2.05}$	8022^{+605}_{-1167}	-5733^{+1698}_{-758}	$0.118^{+0.129}_{-0.053}$

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 $A_{obs} \gg 1.0$

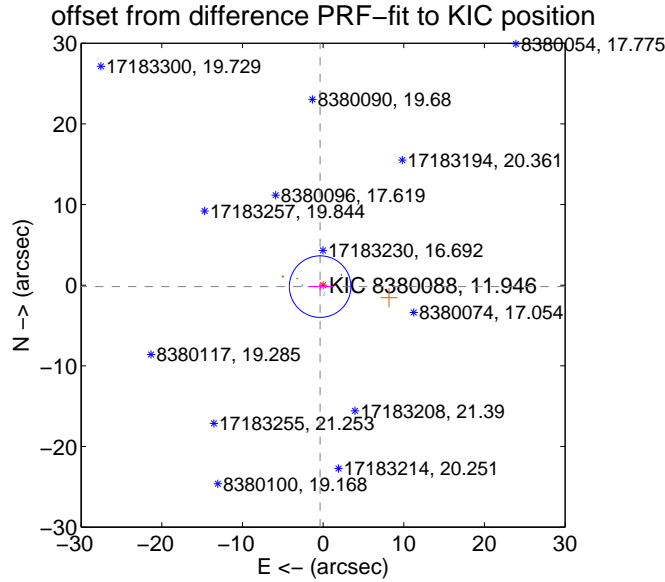
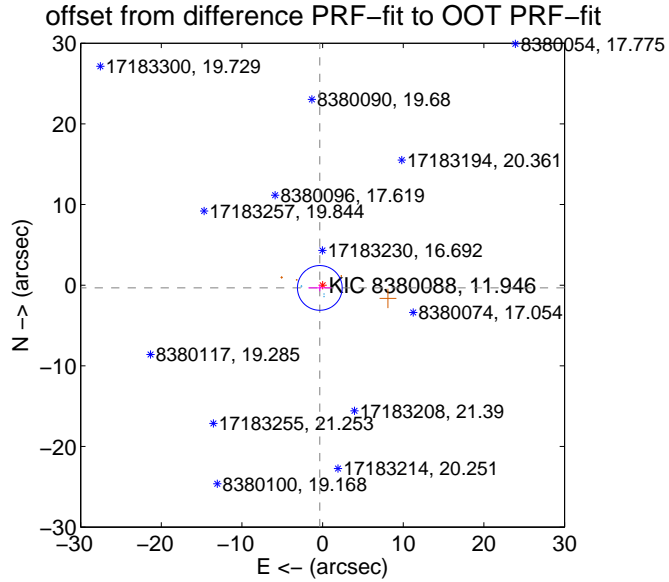
DV Centroid Data

Supplemental centroid analysis for 008380088-01. **Kepler magnitude: 11.95.** Transit SNR 6.45

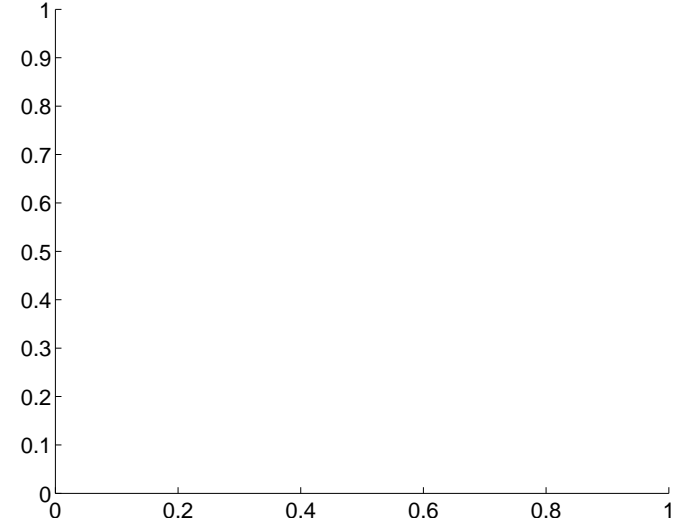
There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.485 ± 0.924	0.52	0.345 ± 1.424	-0.340 ± 0.416
PRF-fit source offset from KIC position	0.411 ± 1.272	0.32	0.370 ± 1.536	-0.178 ± 0.438
photometric centroid source offset	—	—	—	—

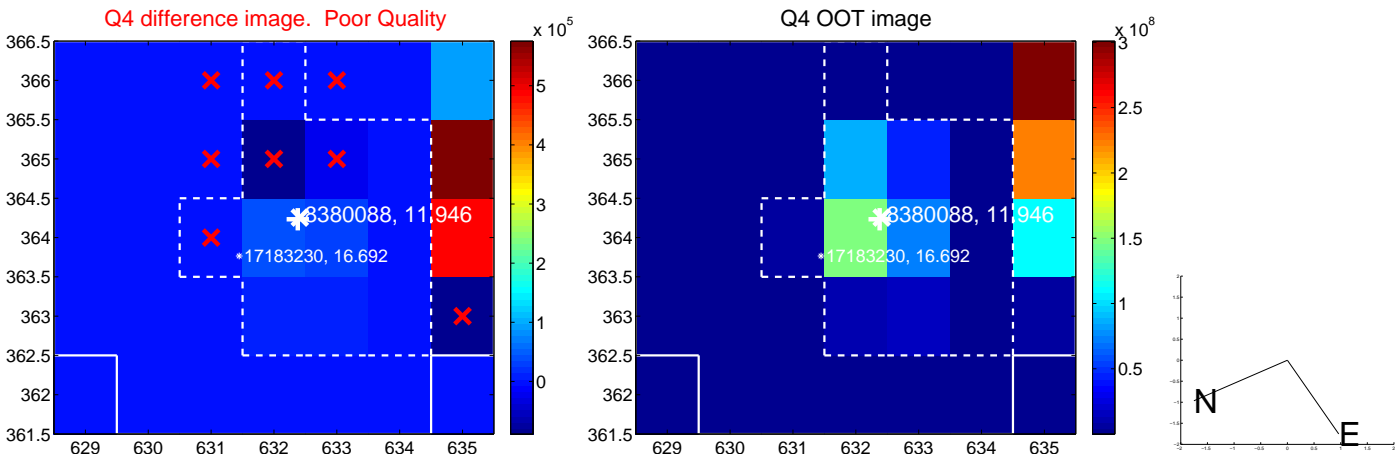
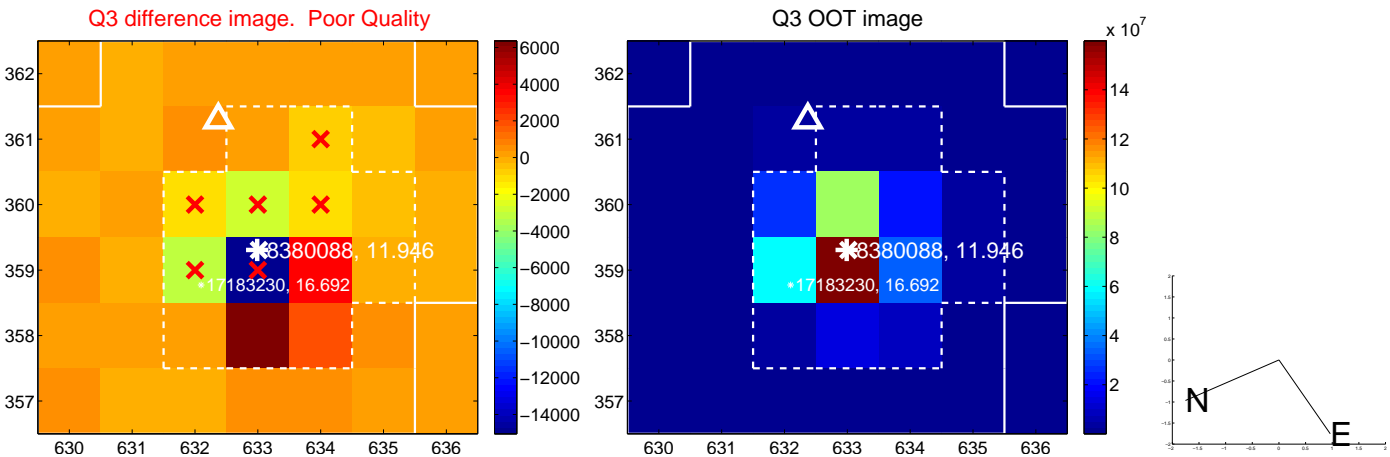
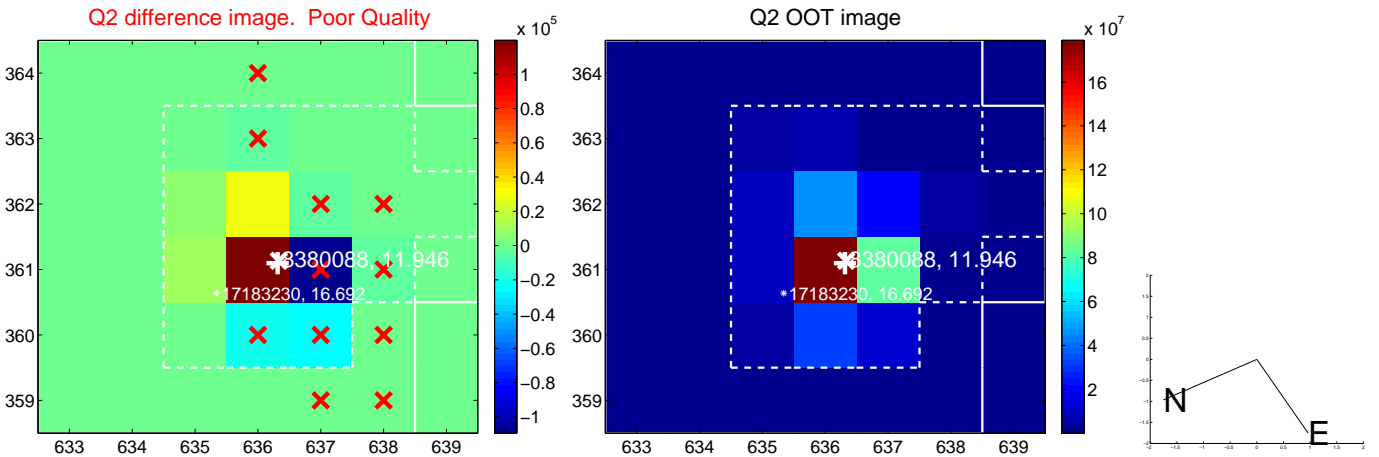
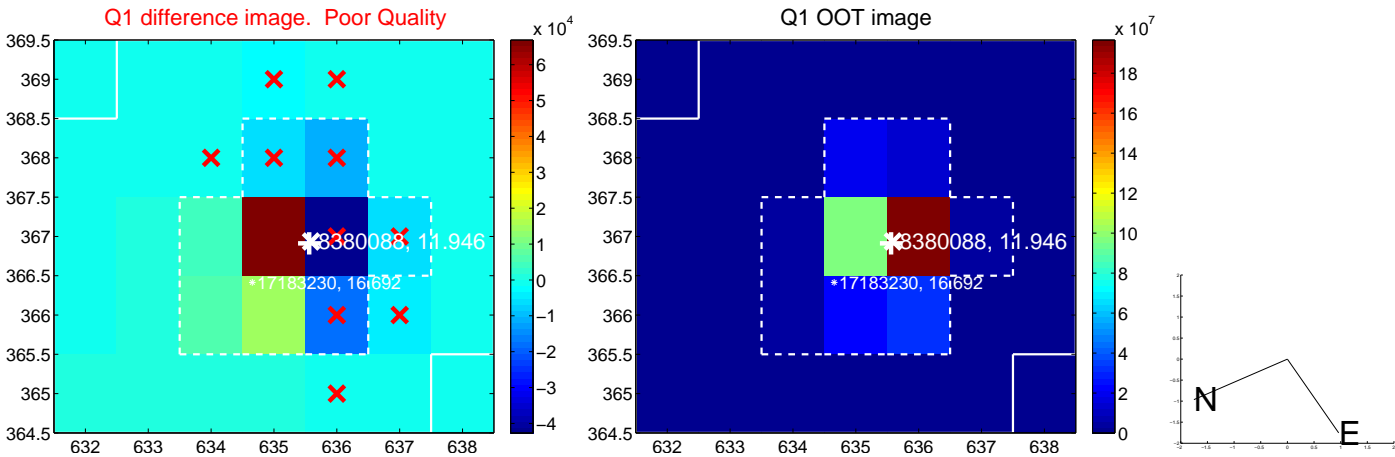


There are no photometric centroids

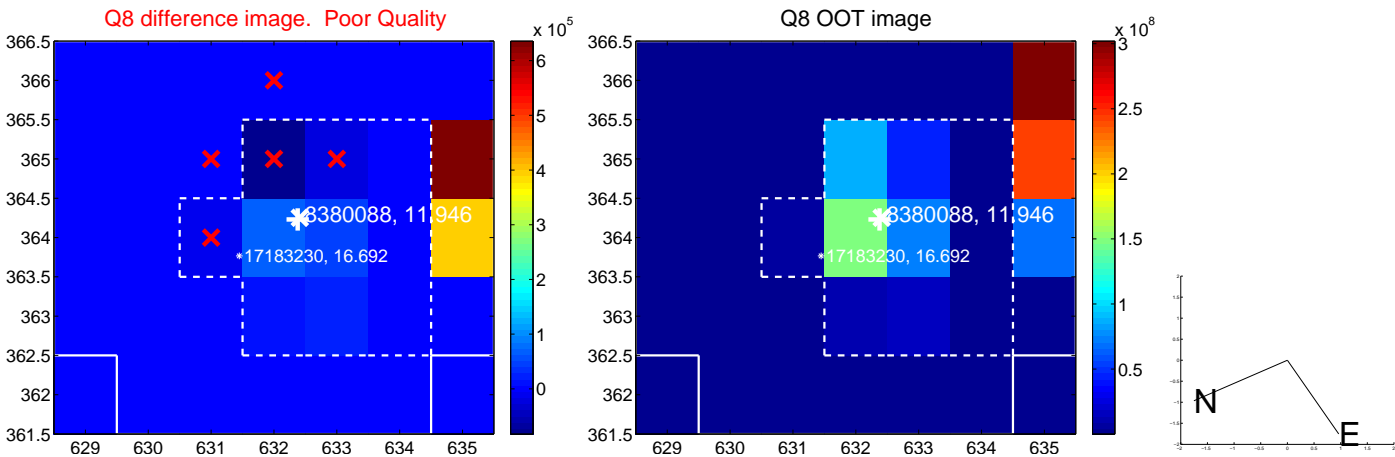
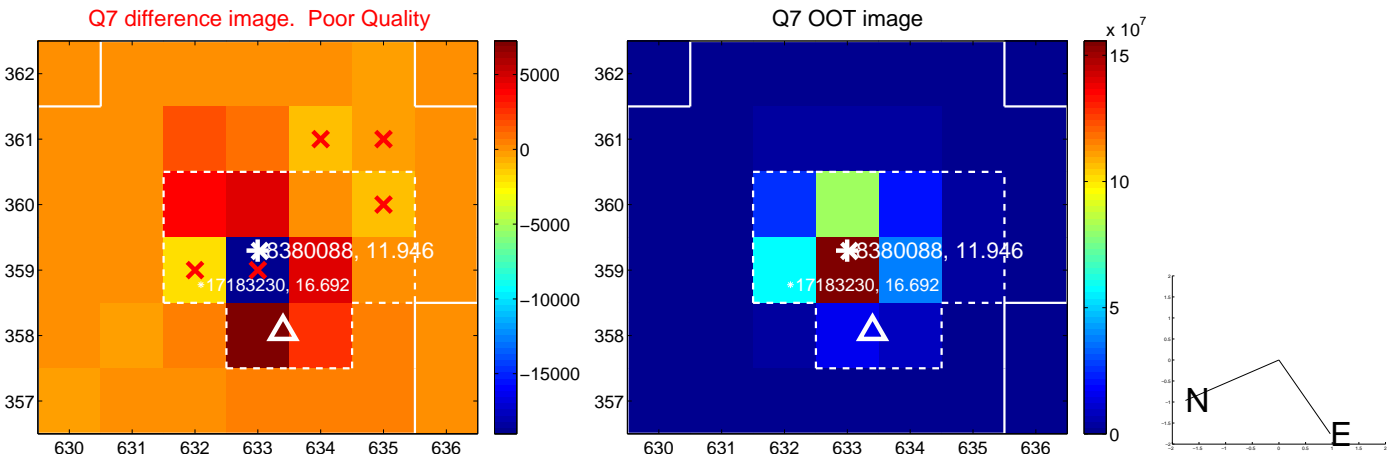
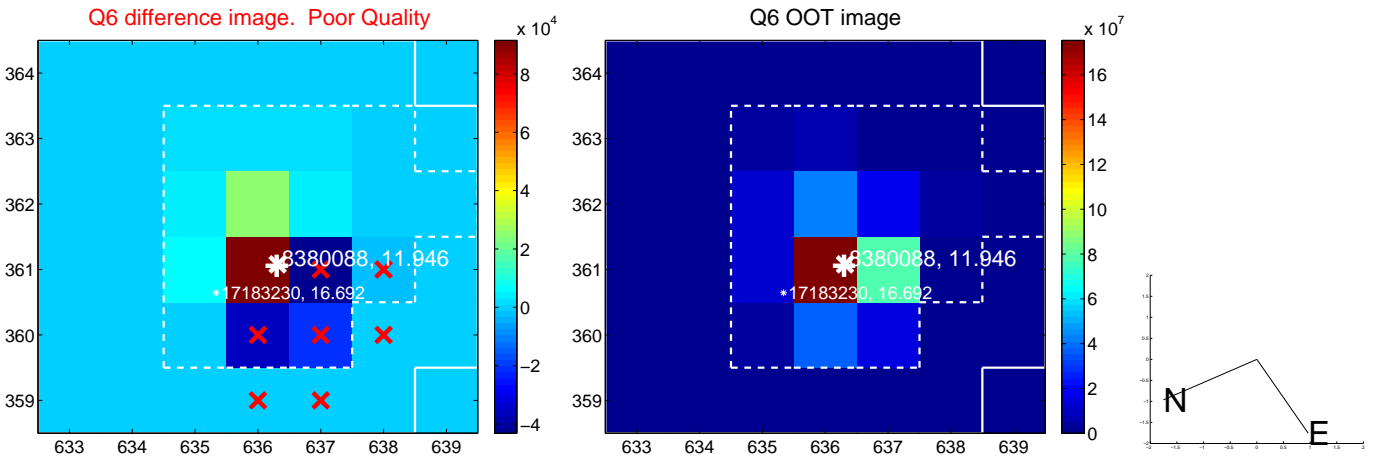
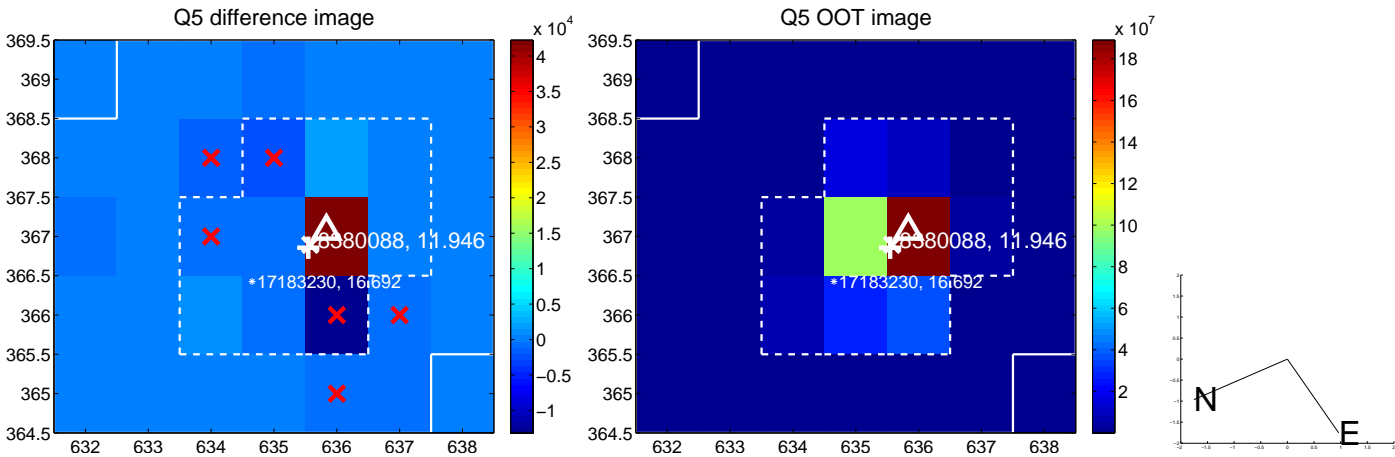


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

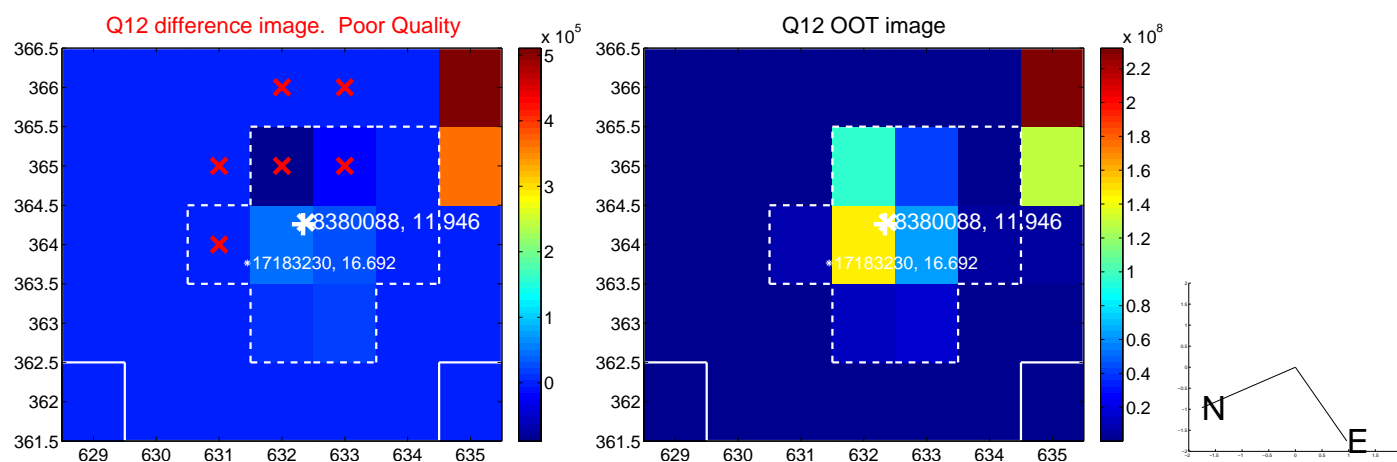
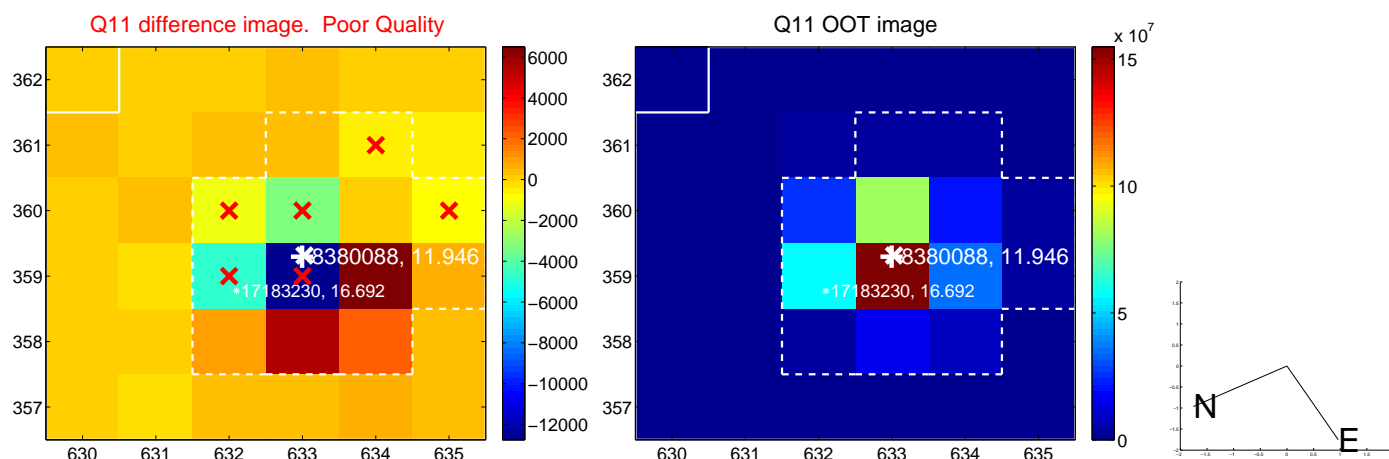
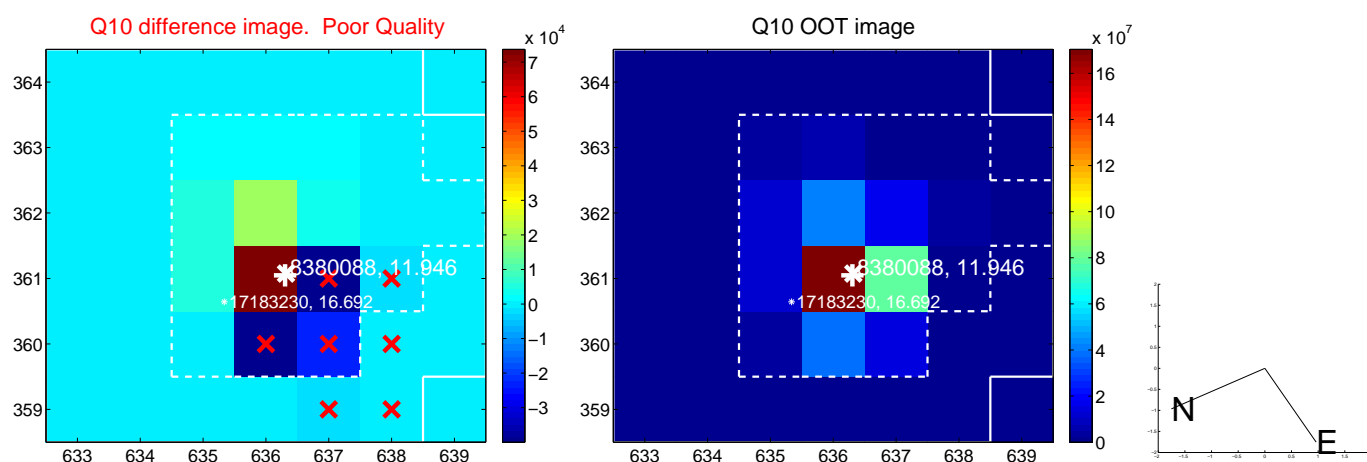
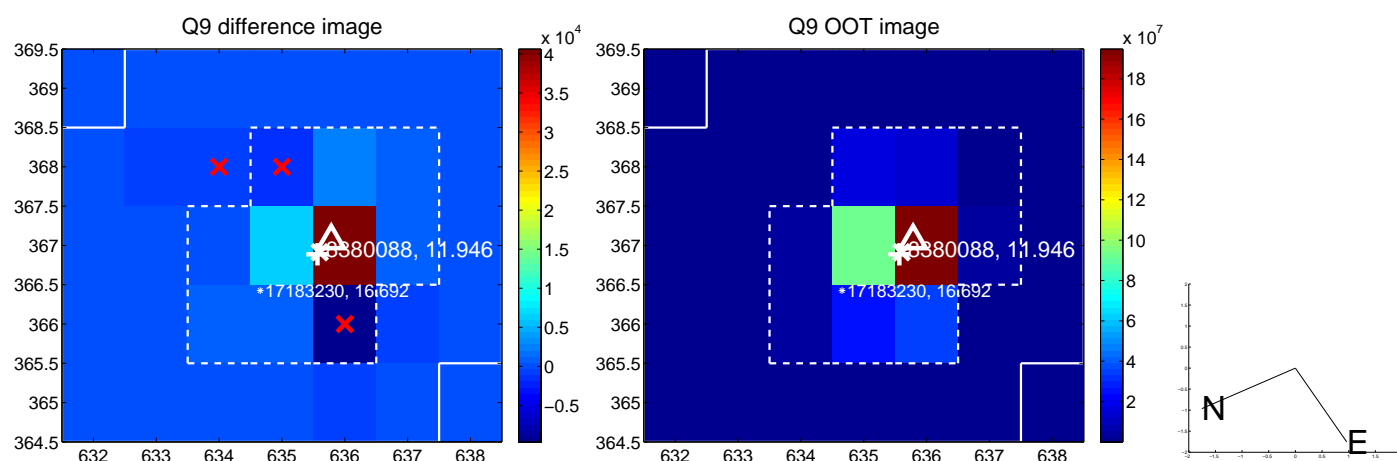
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



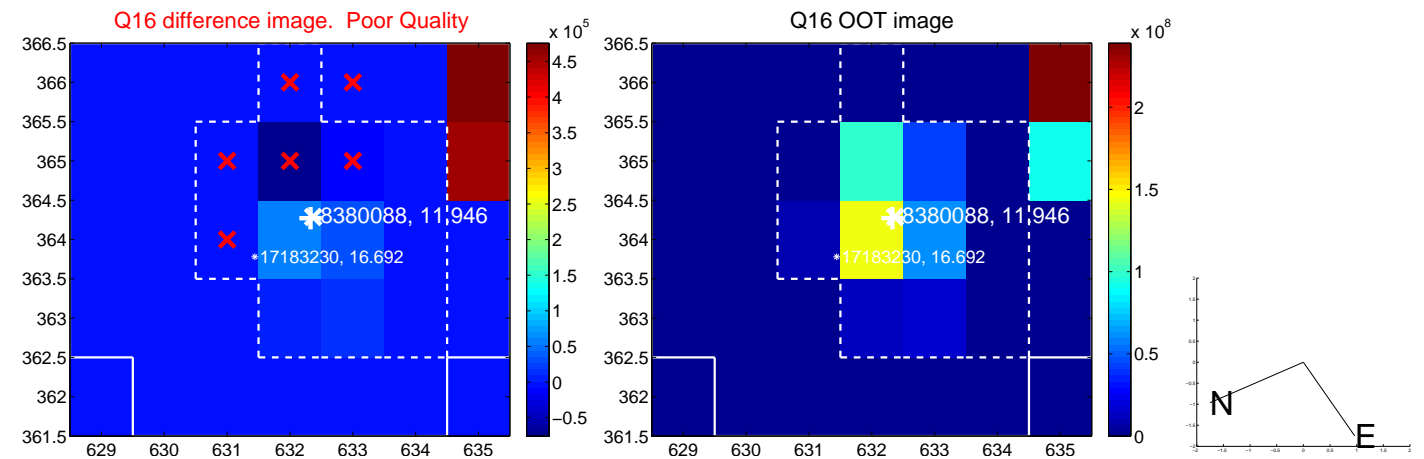
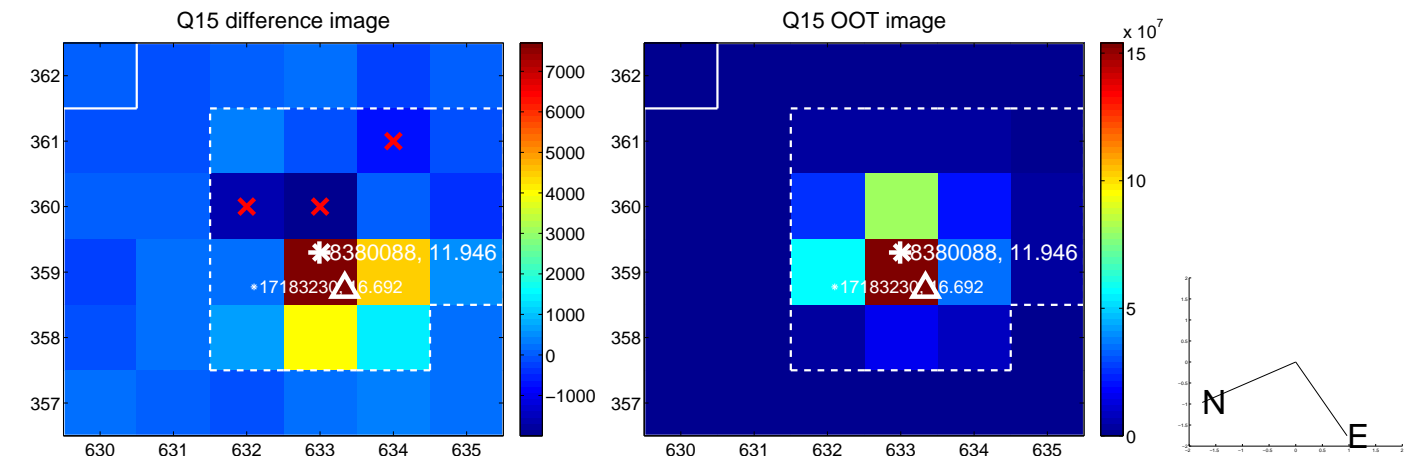
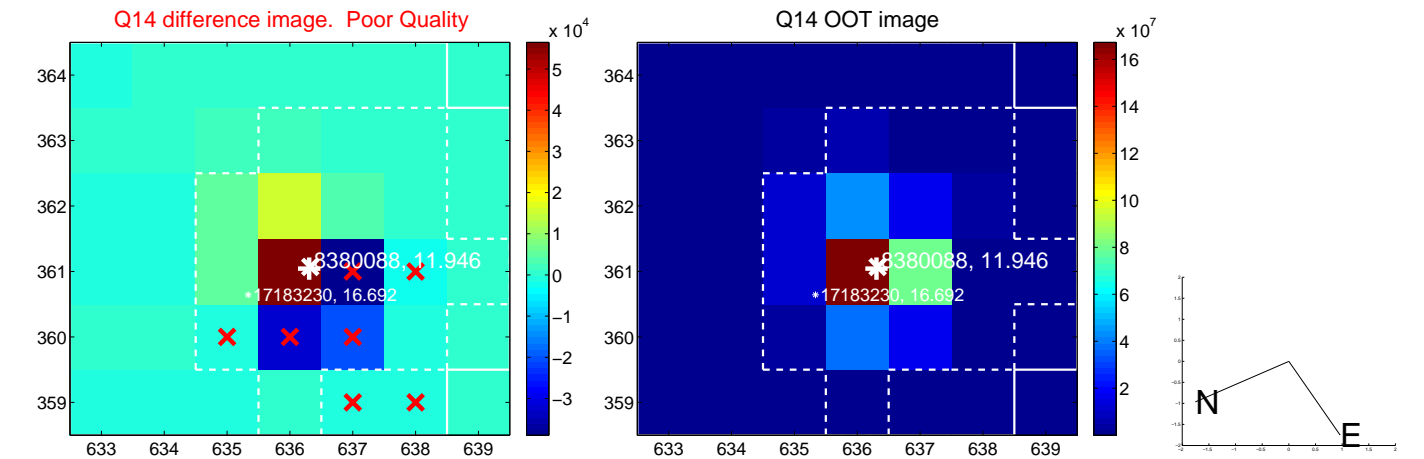
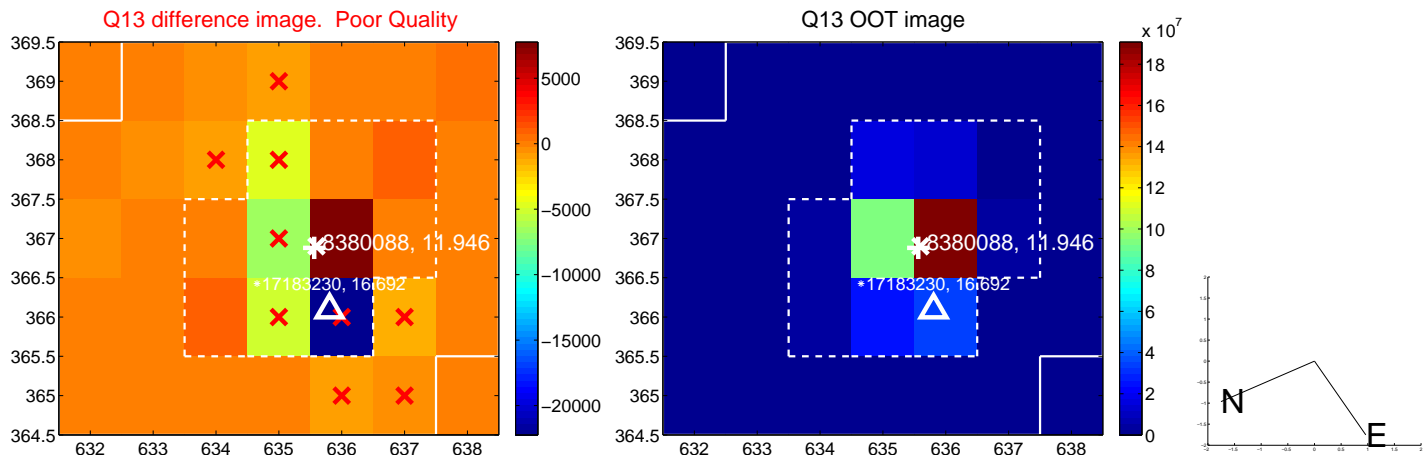
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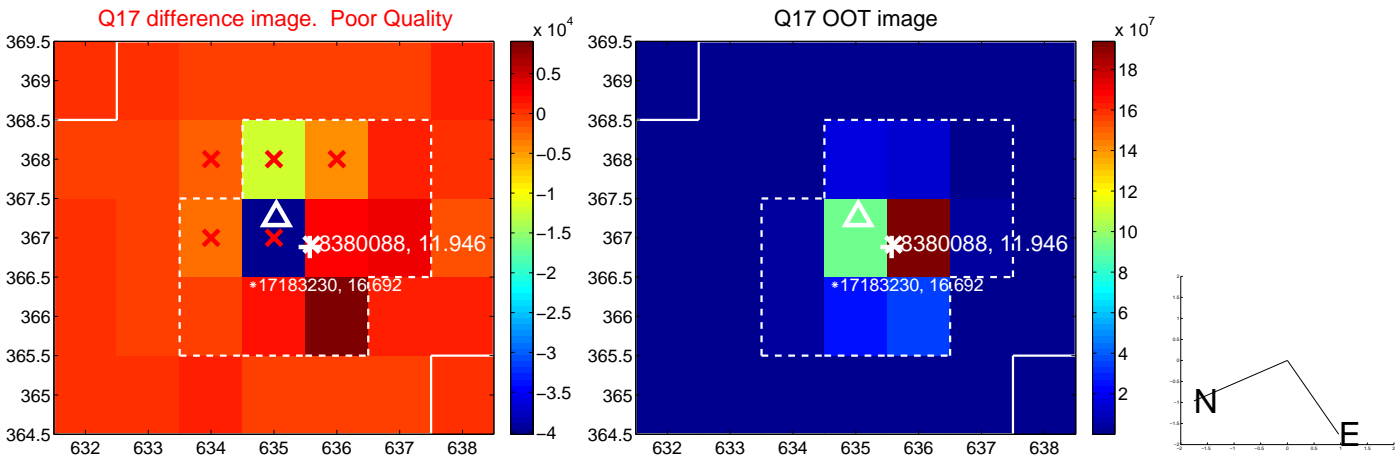
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



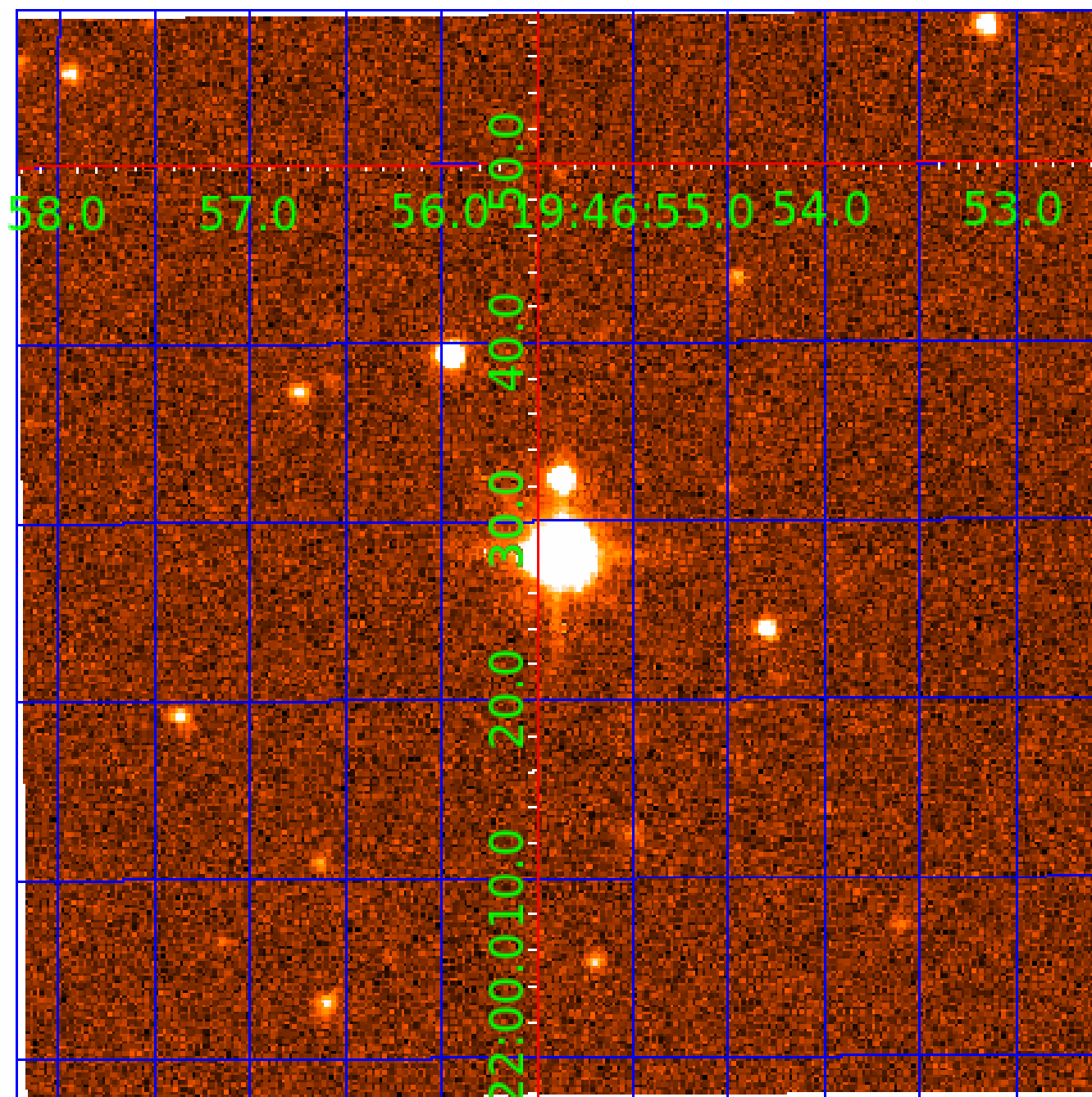
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008380088

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

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

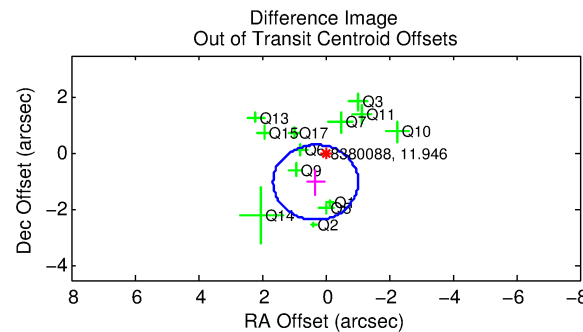
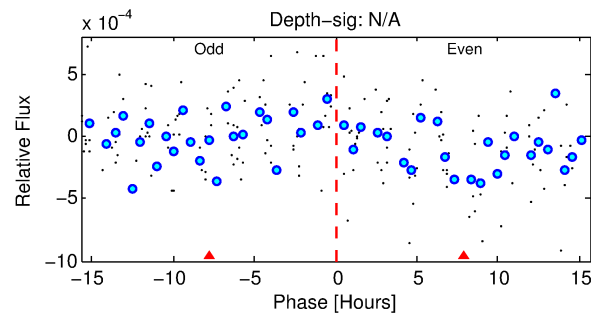
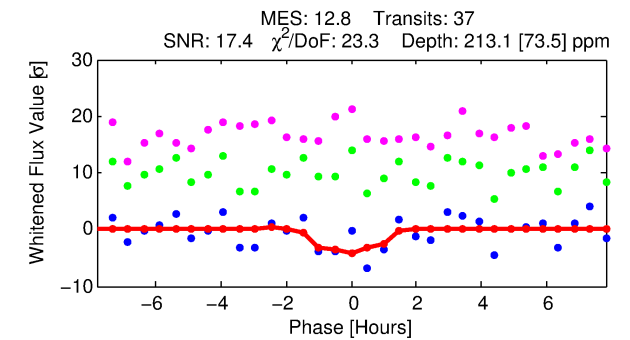
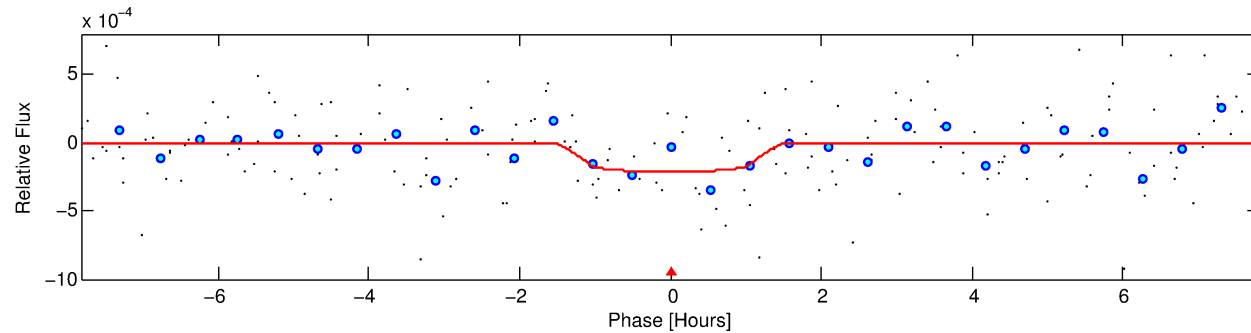
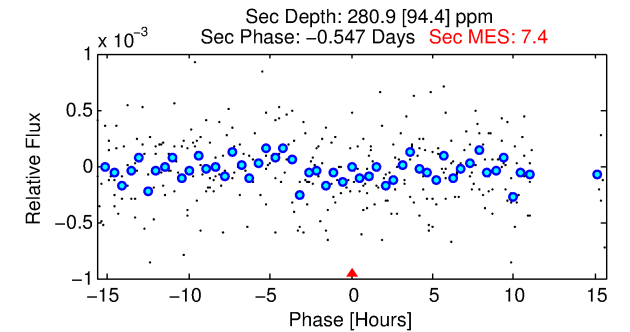
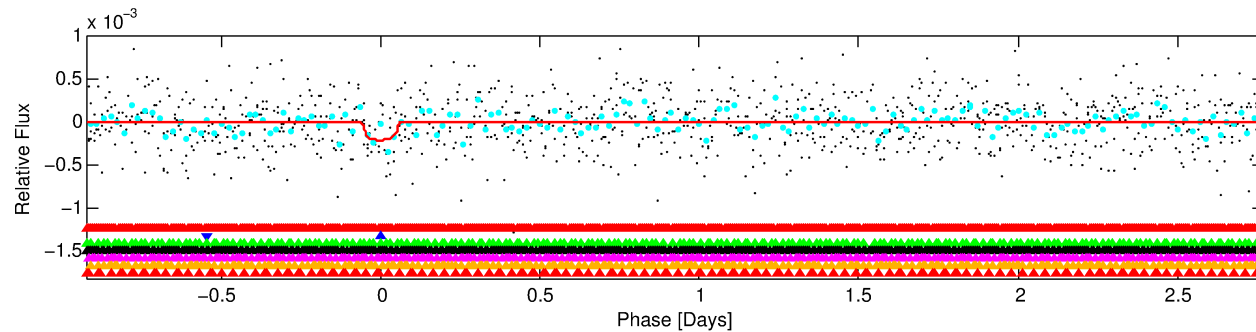
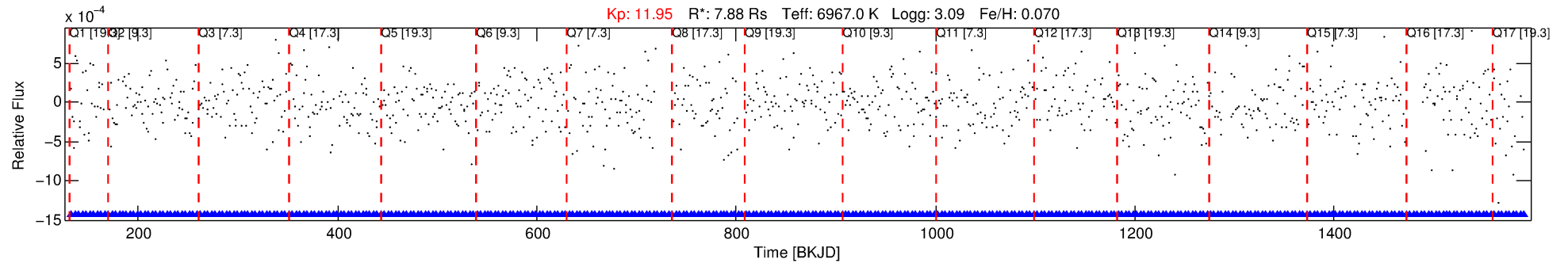
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008380088-02

No Significant Match Found

DV One-Page Summary

KIC: 8380088 Candidate: 2 of 7 Period: 3.699 d



DV Fit Results:

Period = 3.69940 [0.00009] d
Epoch = 133.0230 [0.0134] BKJD
 $R_p/R^* = 0.0145$ [0.0346]
 $a/R^* = 7.59$ [104.22]
 $b = 0.74$ [8.66]
 $\text{Seff} = 29996.38$ [29242.90]
 $\text{Teq} = 3356$ [818] K
 $R_p = 12.45$ [30.57] R_e
 $a = 0.0661$ [0.0388] AU
 $\text{Ag} = 4.35$ [21.22] [0.16 σ]
 $\text{Teffp} = 7492$ [8961] K [0.46 σ]

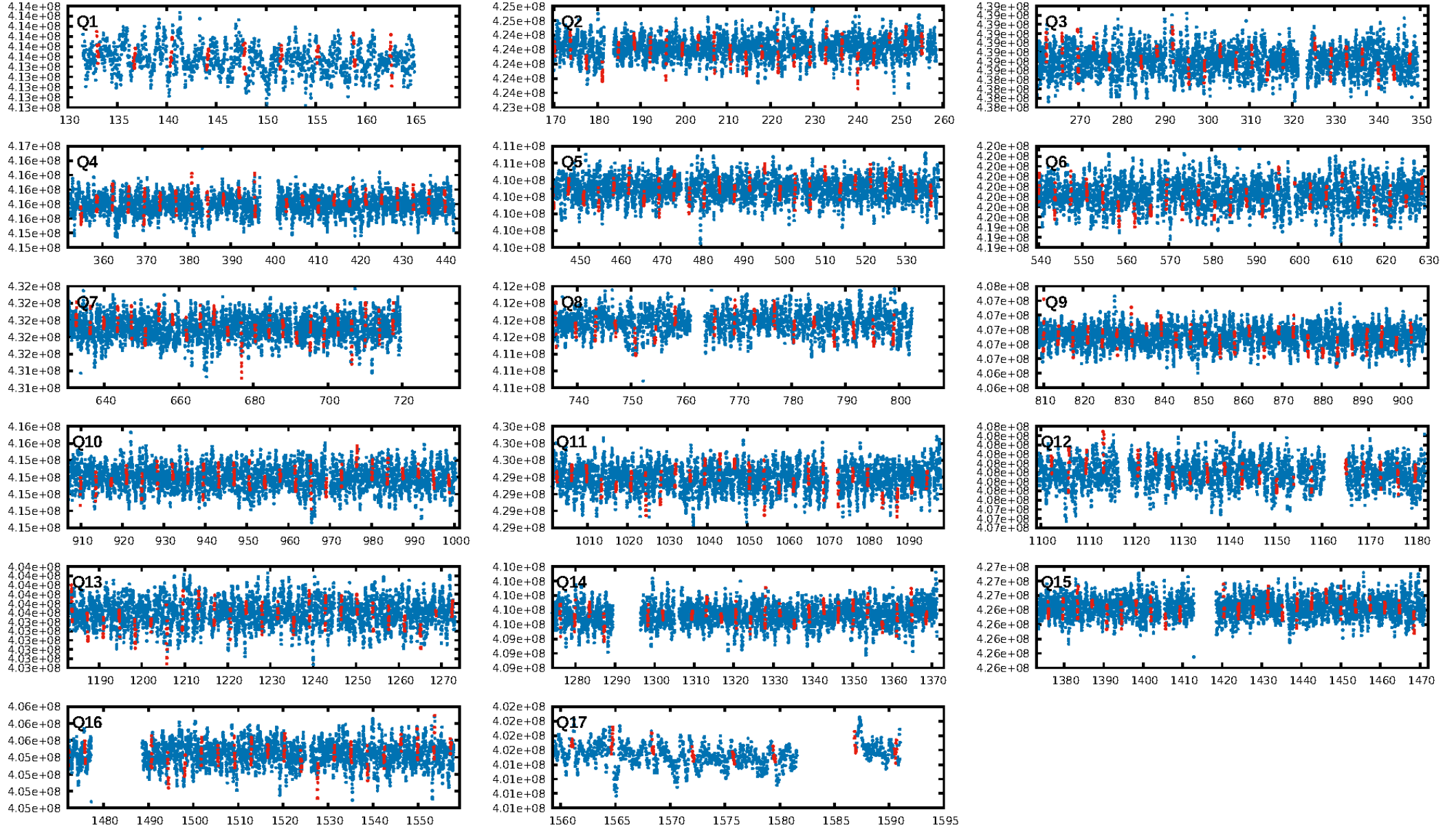
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [9.75 σ]
LongPeriod-sig: 100.0% [5.01 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 3.87e-06
RollingBand-fgt: 1.00 [34/34]
GhostDiagnostic-chr: 0.646
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.072 arcsec [2.40 σ]
KicOffset-rm: 0.941 arcsec [2.16 σ]
OotOffset-st: 4/4/0/5 [13]
KicOffset-st: 4/4/0/5 [13]
DiffImageQuality-fgm: 0.38 [5/13]
DiffImageOverlap-fno: 0.00 [0/17]

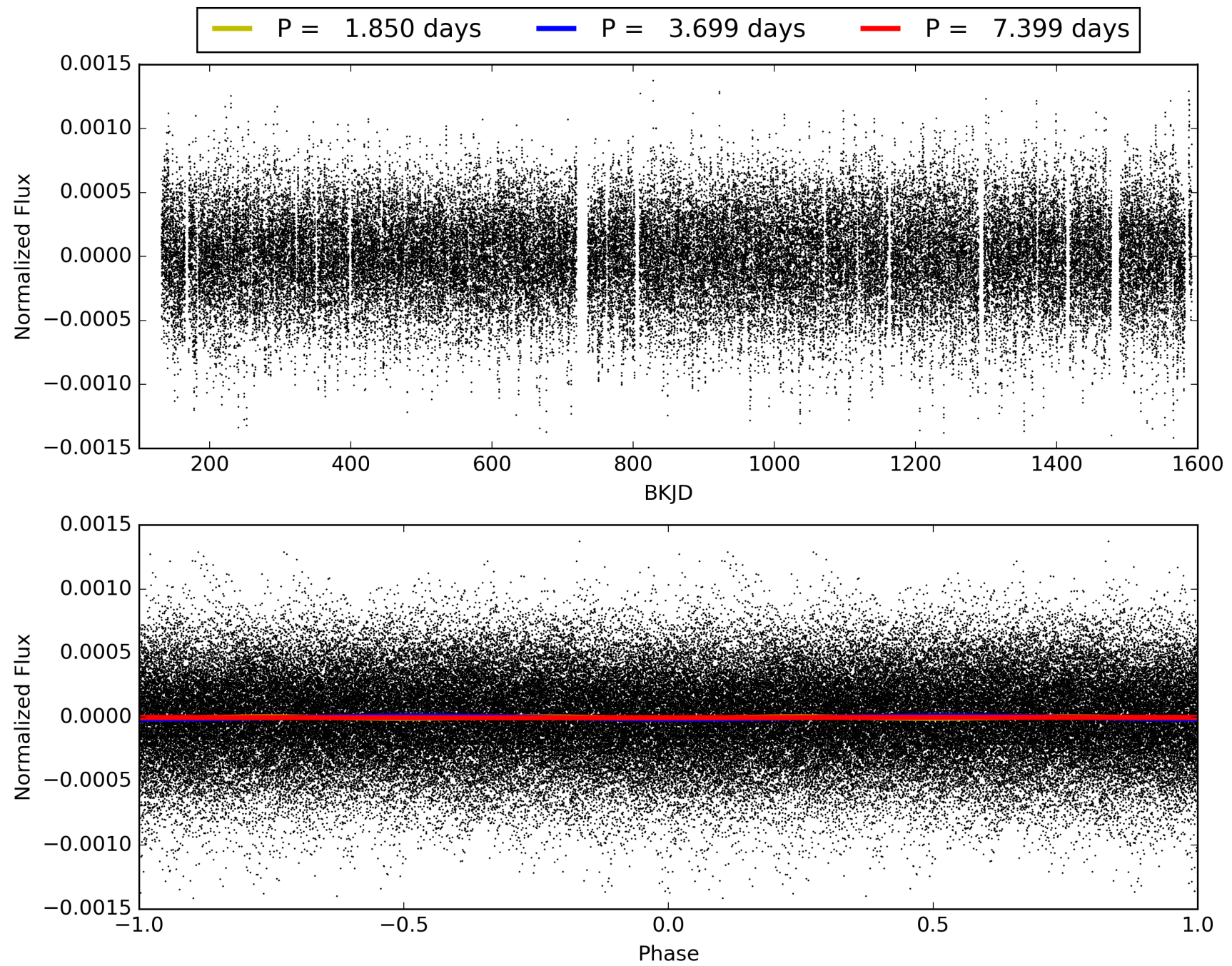
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:54:21 Z

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

TCE 008380088-02, PDC Light Curves

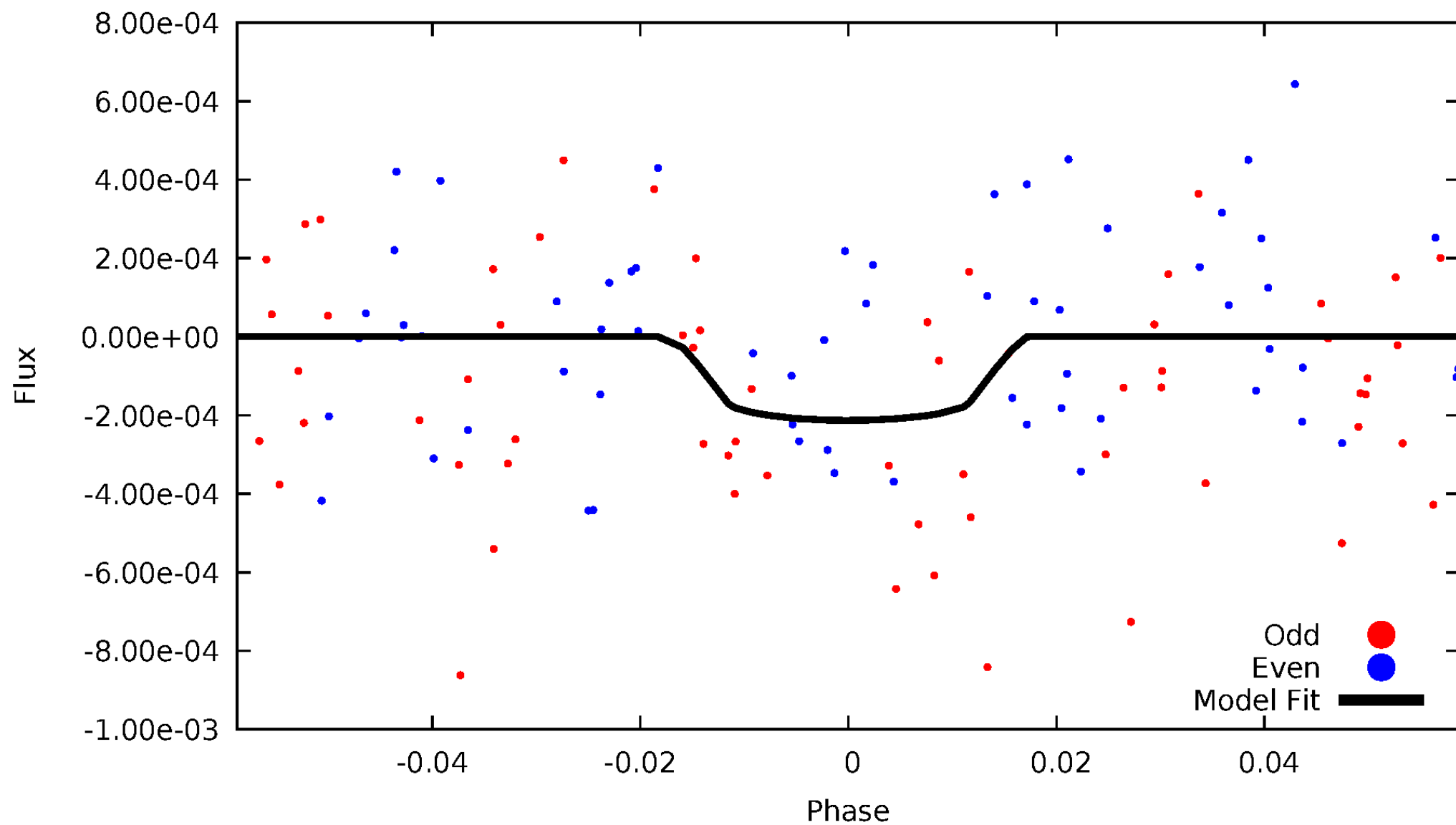


TCE 008380088-02



DV Odd/Even

TCE 008380088-02

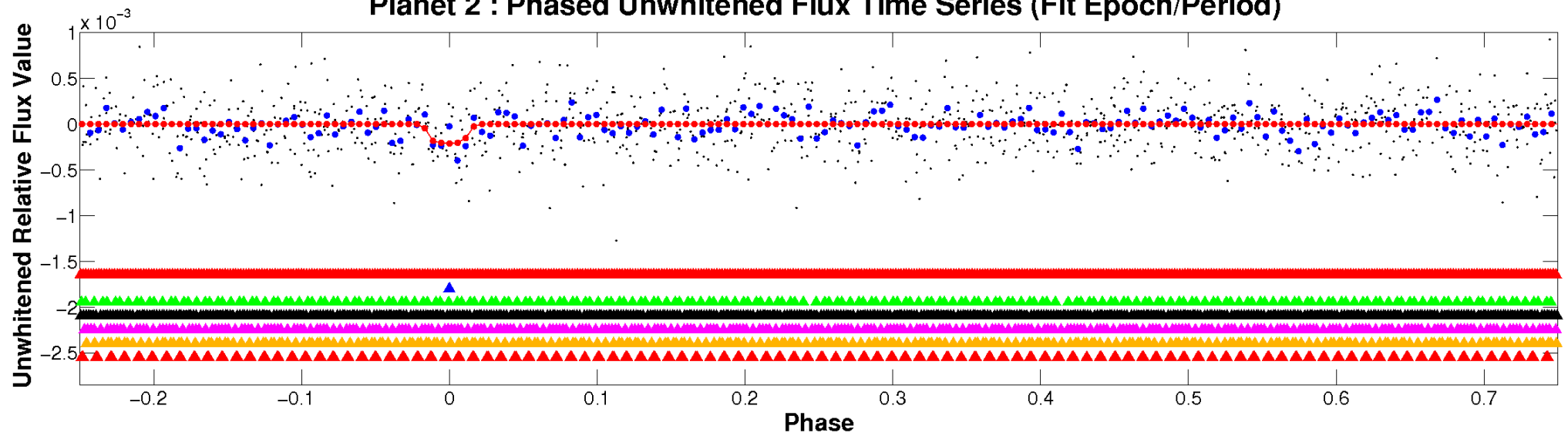


ALT Odd/Even

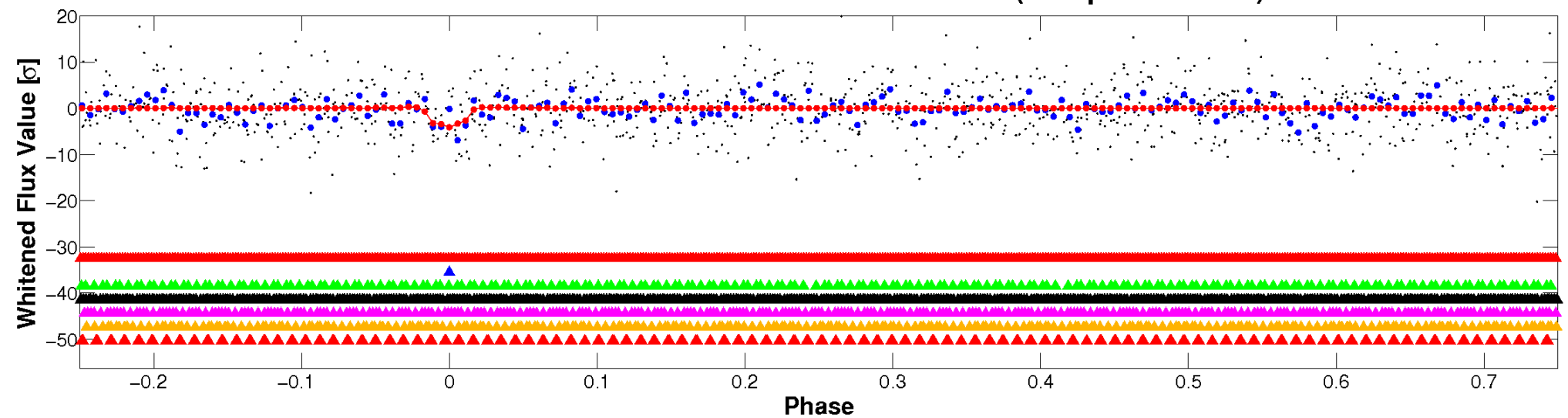
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

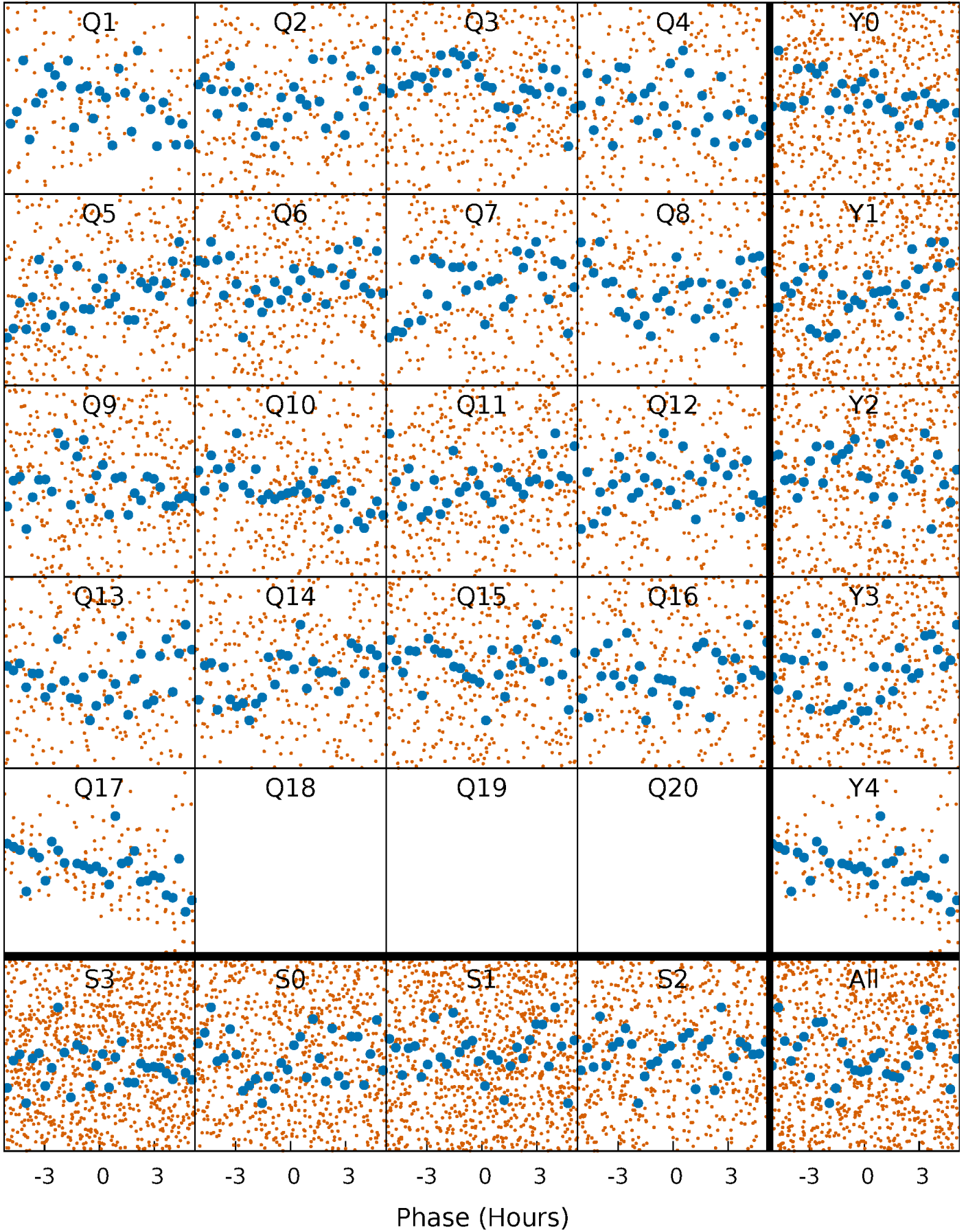


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



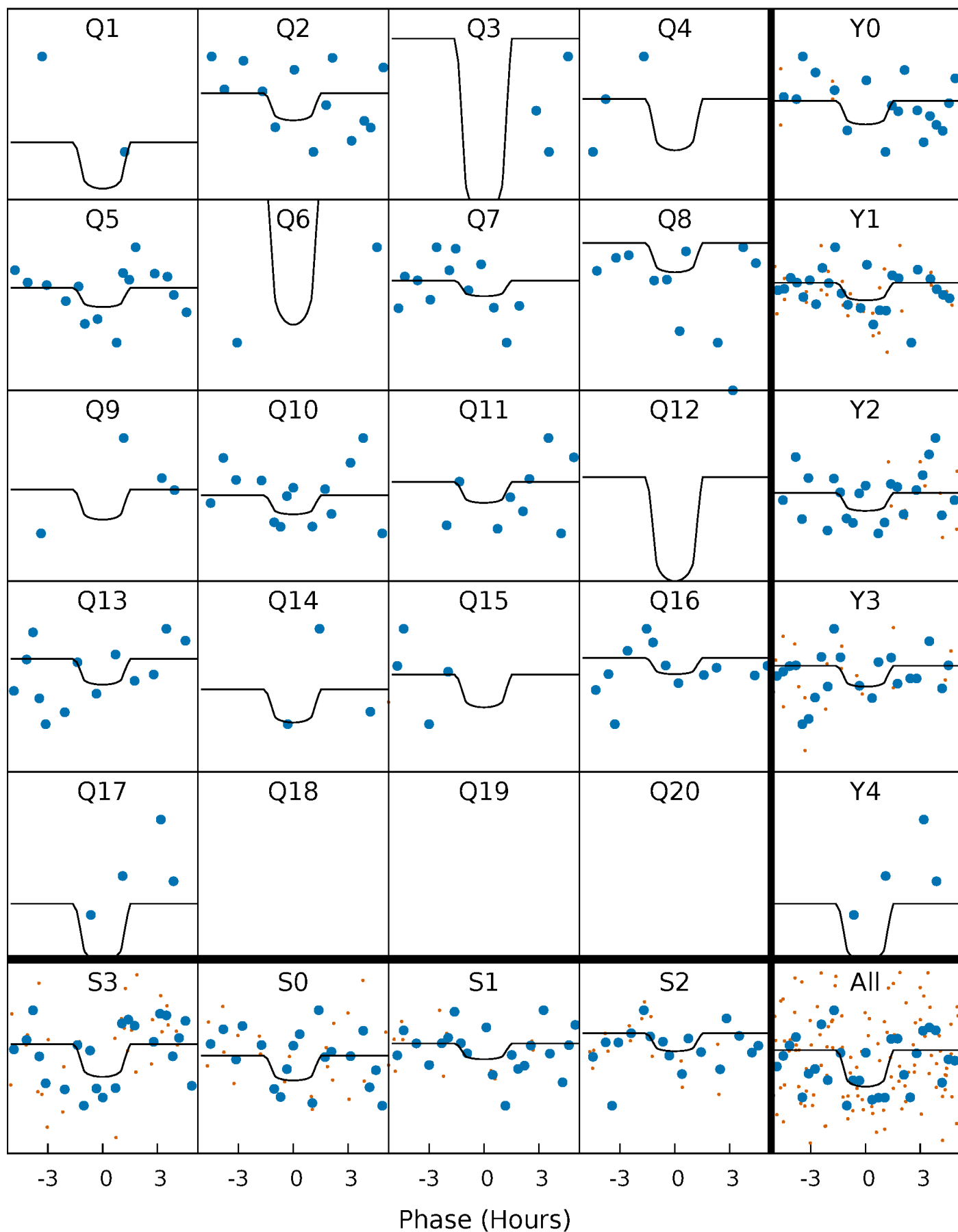
PDC Quarter-Phased Transit Curves

TCE 008380088-02 P= 3.699405 Days $T_0=133.023021$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008380088-02 P= 3.699405 Days $T_0=133.023021$ (BKJD)

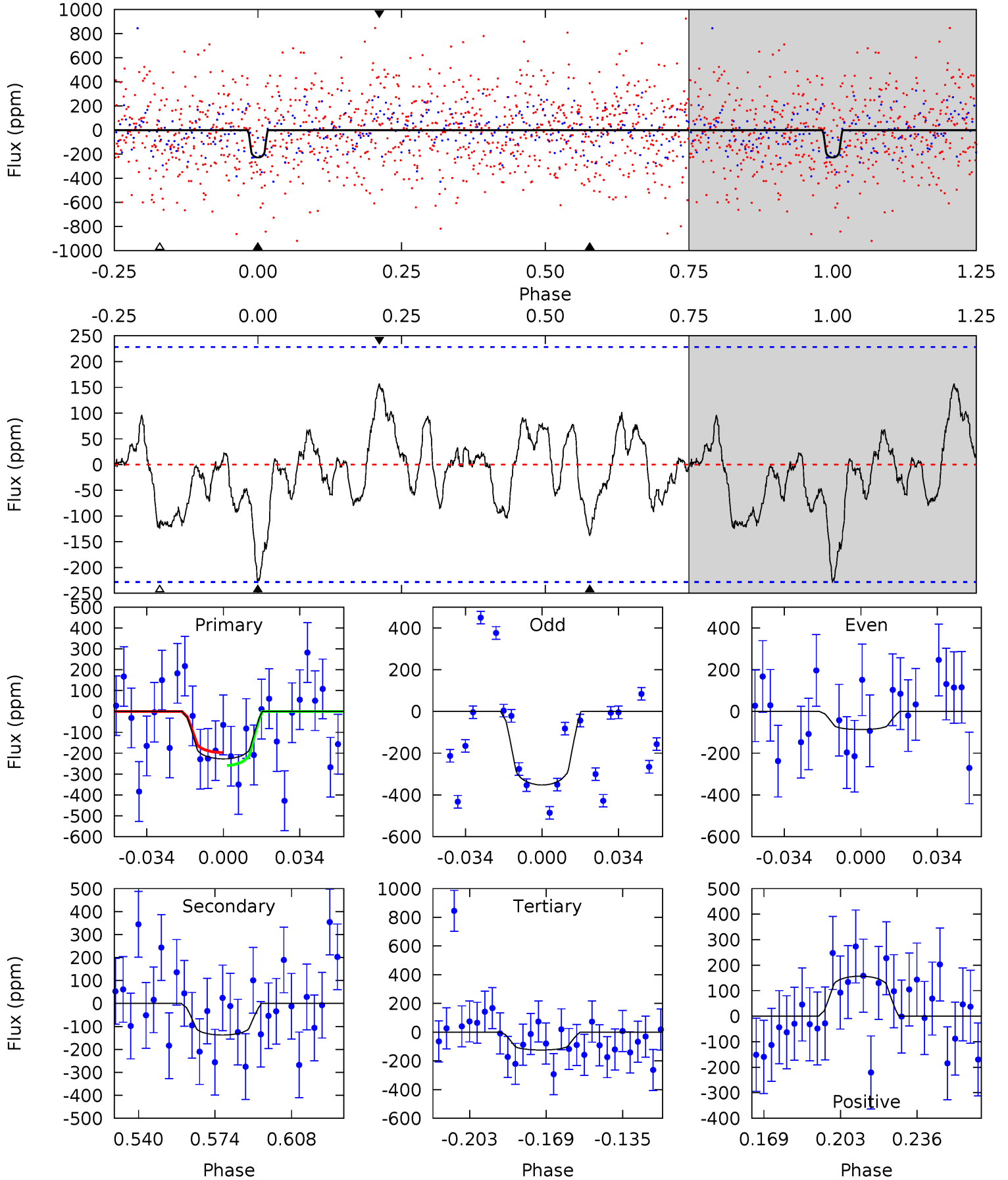


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008380088-02, P = 3.699405 Days, E = 129.323616 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.77	2.88	2.61	3.29	4.79	2.12	1.20	2.16	1.48	0.27	-0.41	2.78	0	0.41	0.65



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-137 ± 48	$22.46^{+25.89}_{-15.53}$	4569^{+301}_{-694}	3862^{+3726}_{-7541}	$0.614^{+6.206}_{-0.485}$
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 $A_{\text{obs}} \gg 1.0$

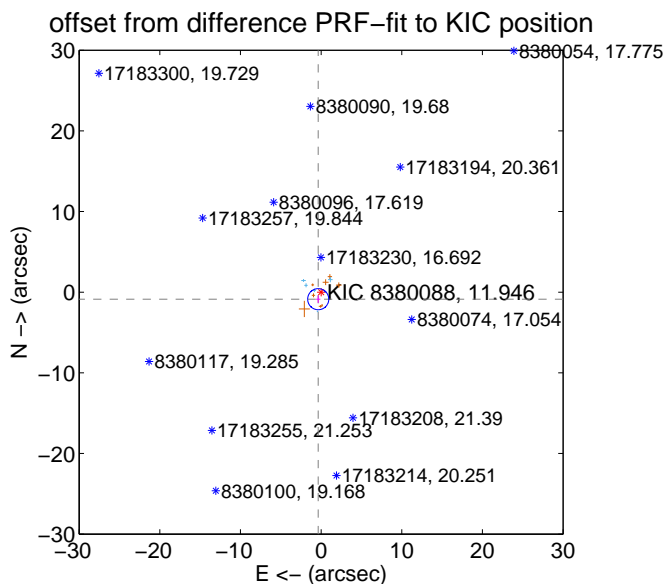
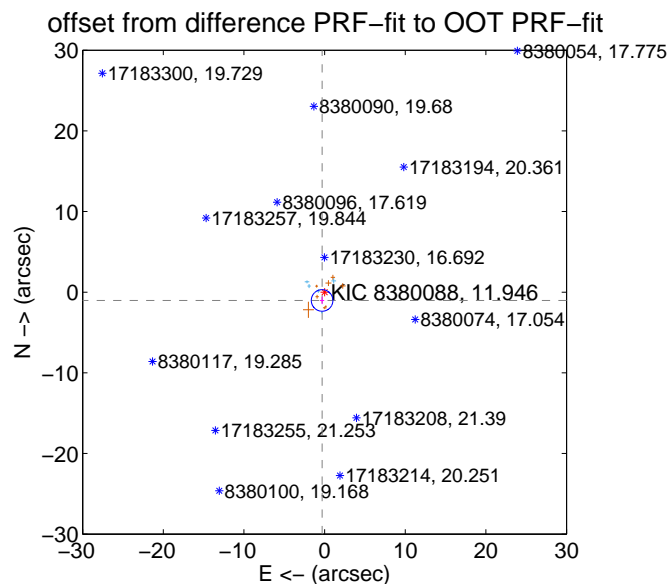
DV Centroid Data

Supplemental centroid analysis for 008380088-02. **Kepler magnitude: 11.95.** Transit SNR 17.36

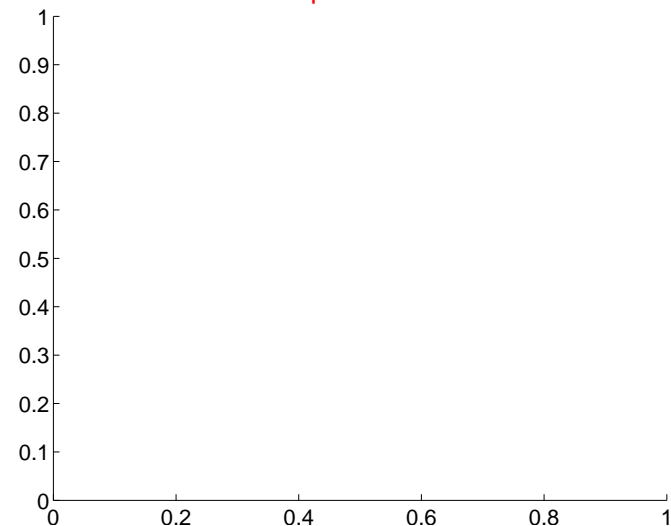
There are 5 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.072 ± 0.446	2.40	0.310 ± 0.259	-1.026 ± 0.460
PRF-fit source offset from KIC position	0.941 ± 0.436	2.16	0.358 ± 0.261	-0.870 ± 0.459
photometric centroid source offset	—	—	—	—

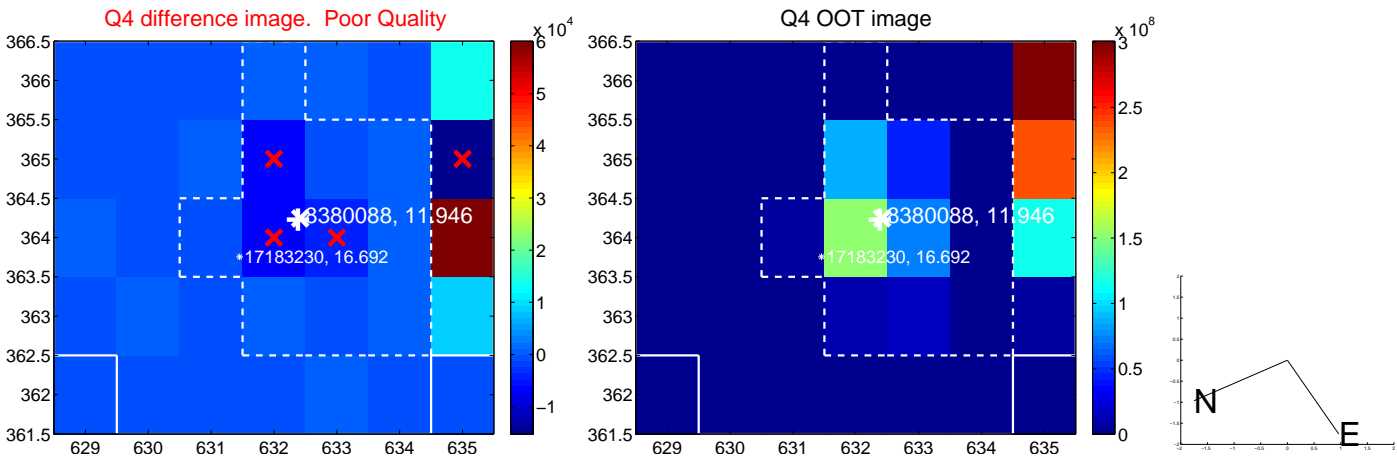
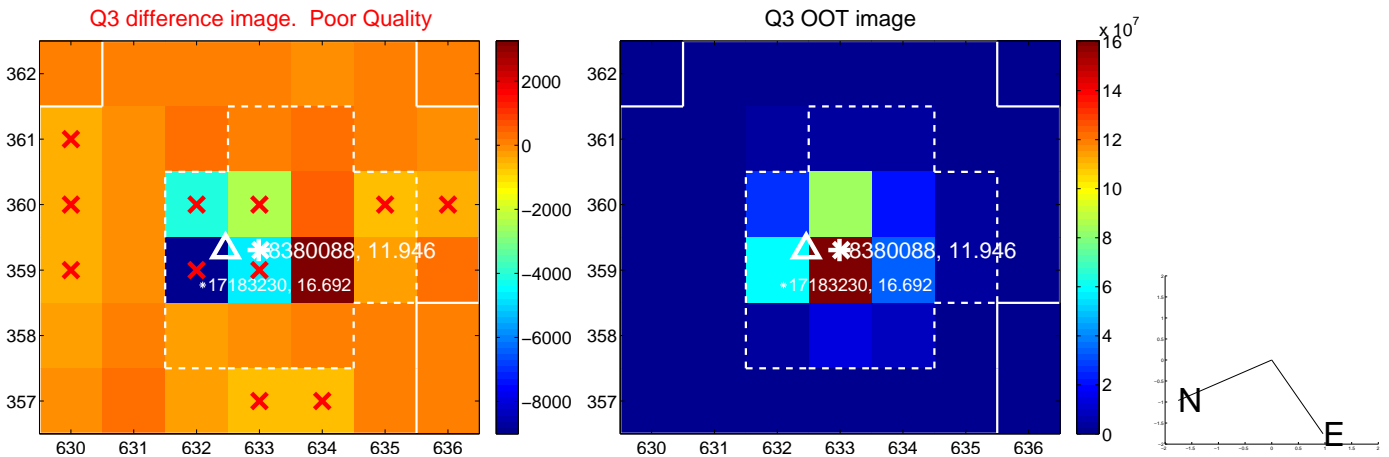
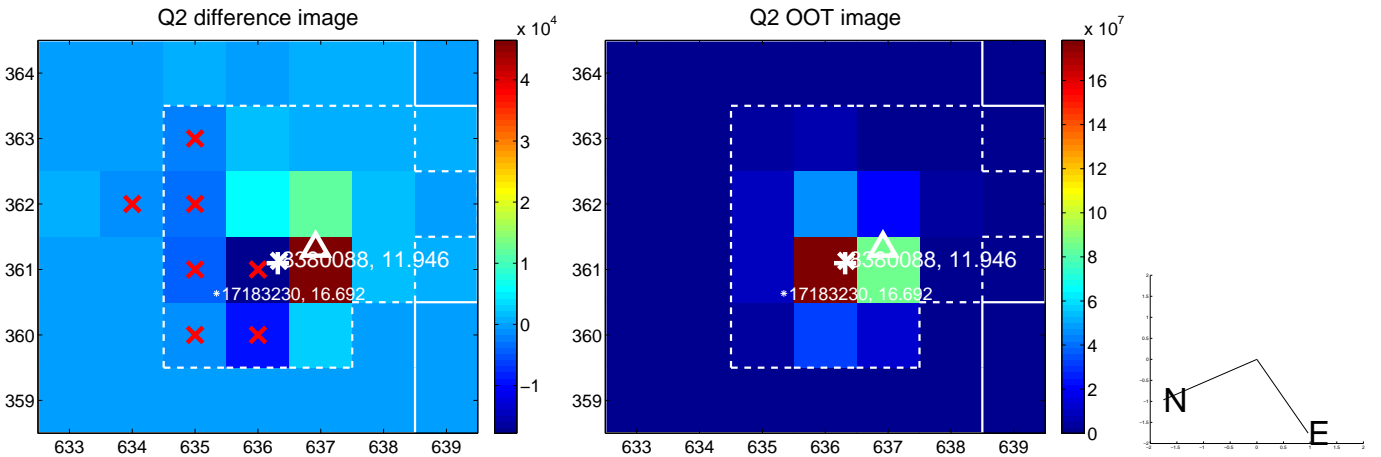
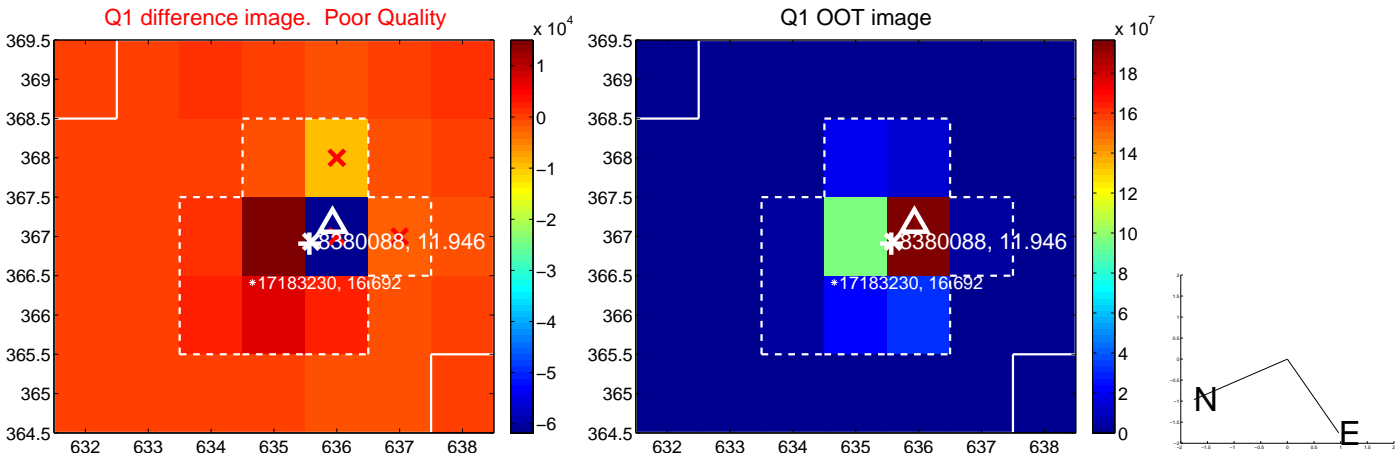


There are no photometric centroids

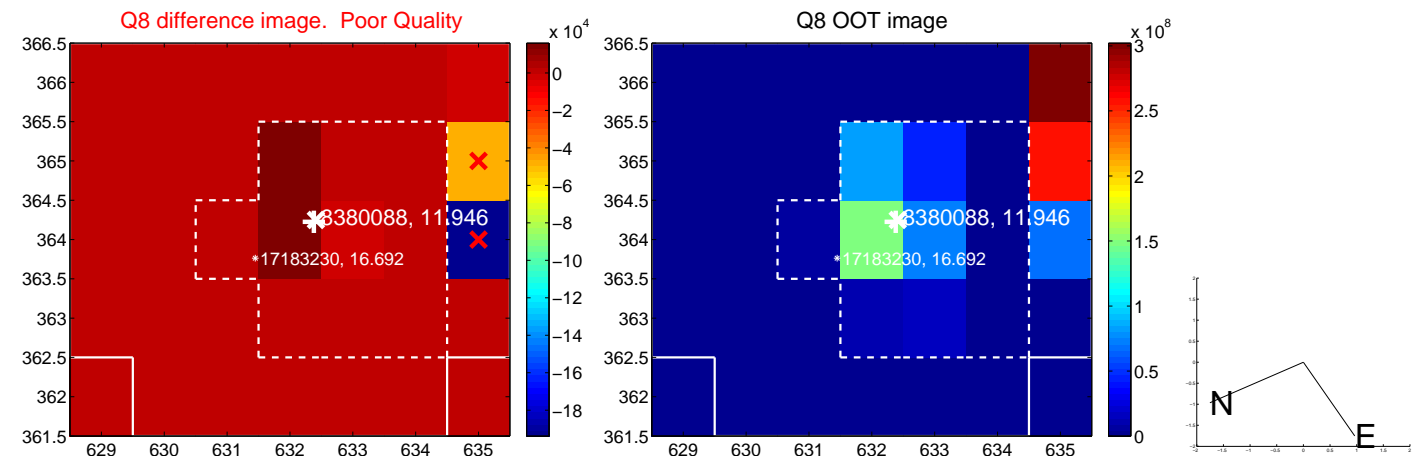
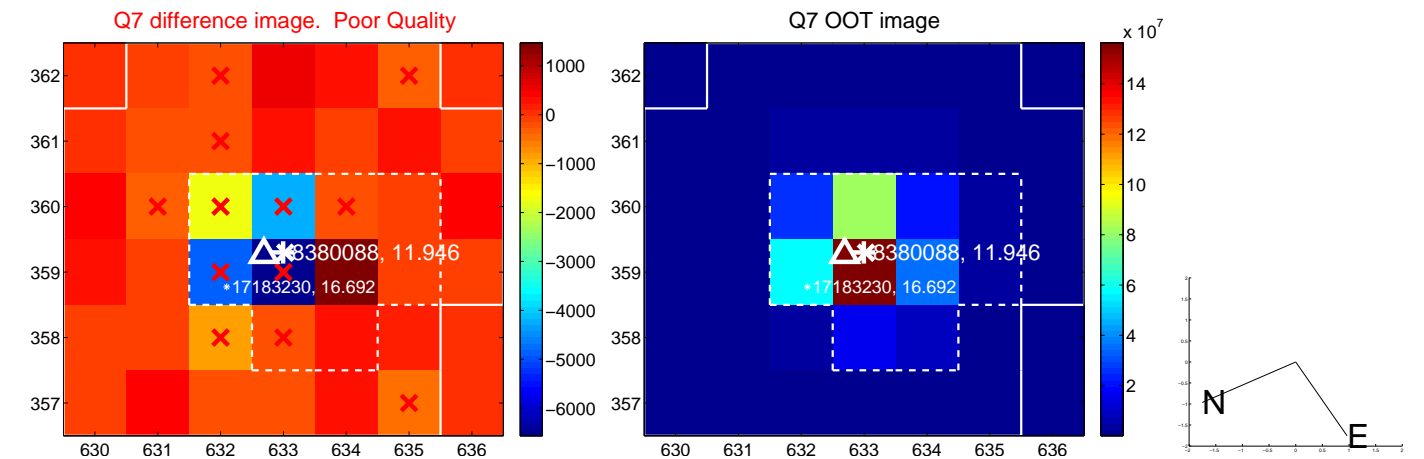
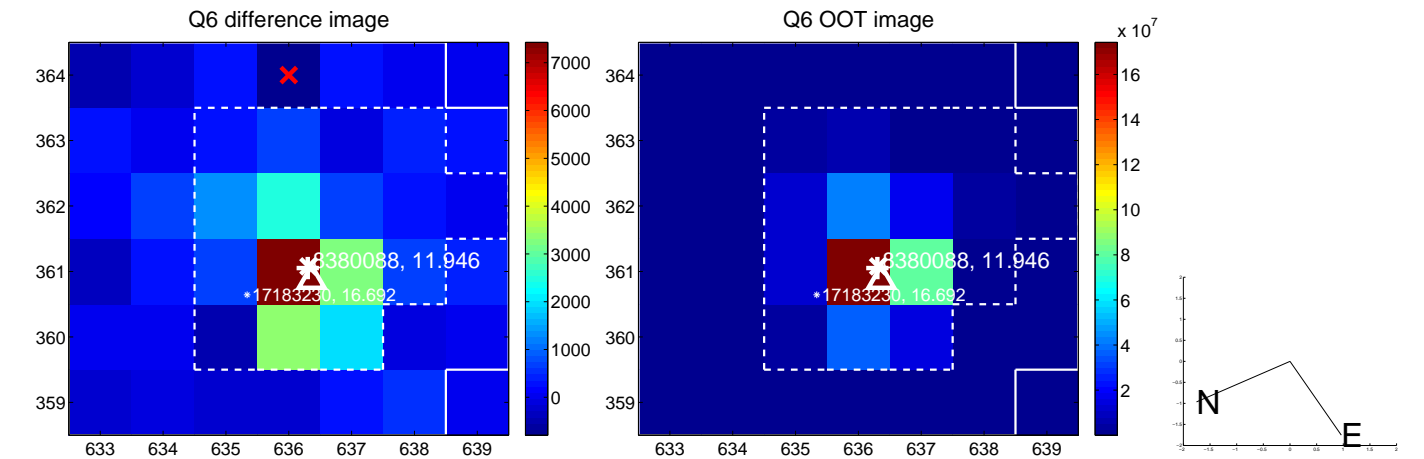
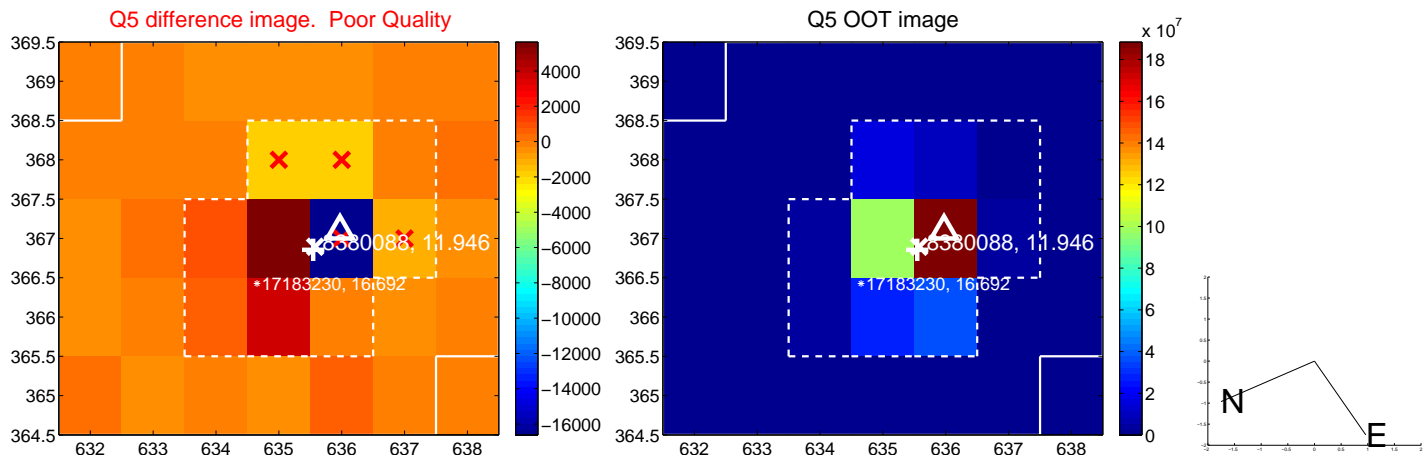


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

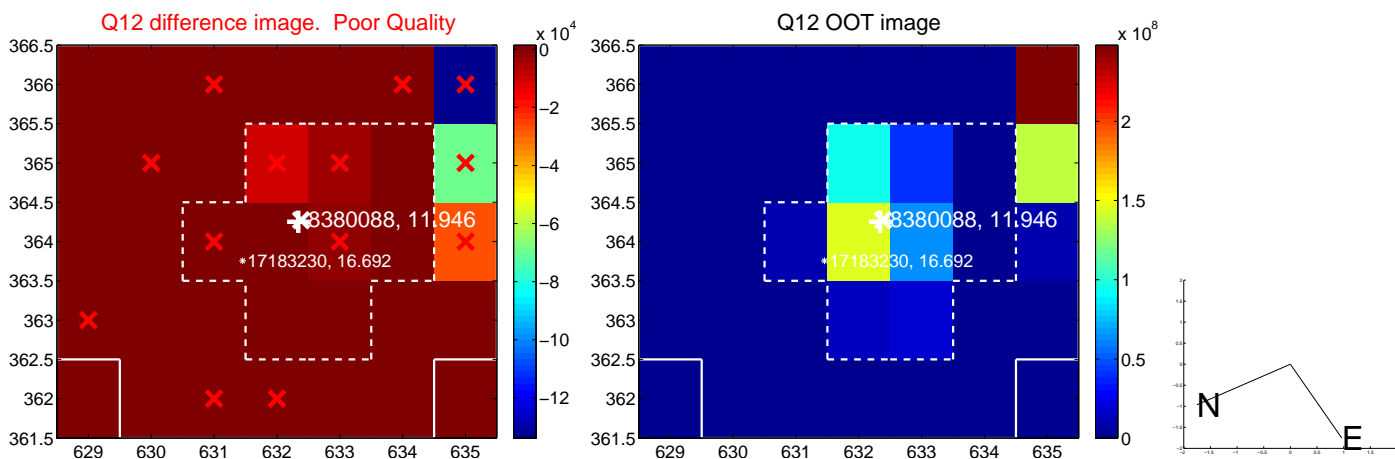
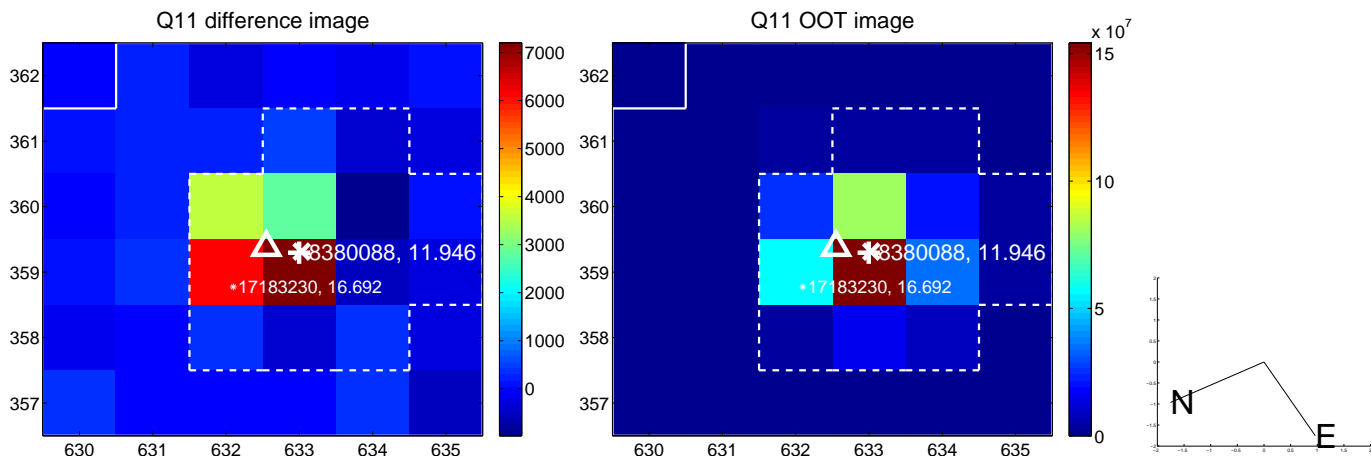
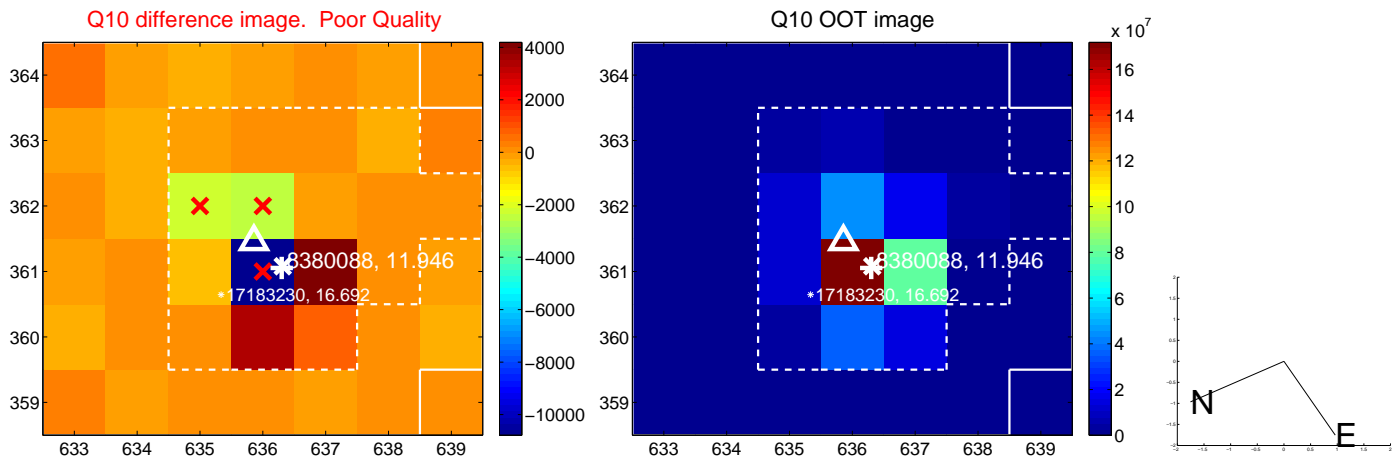
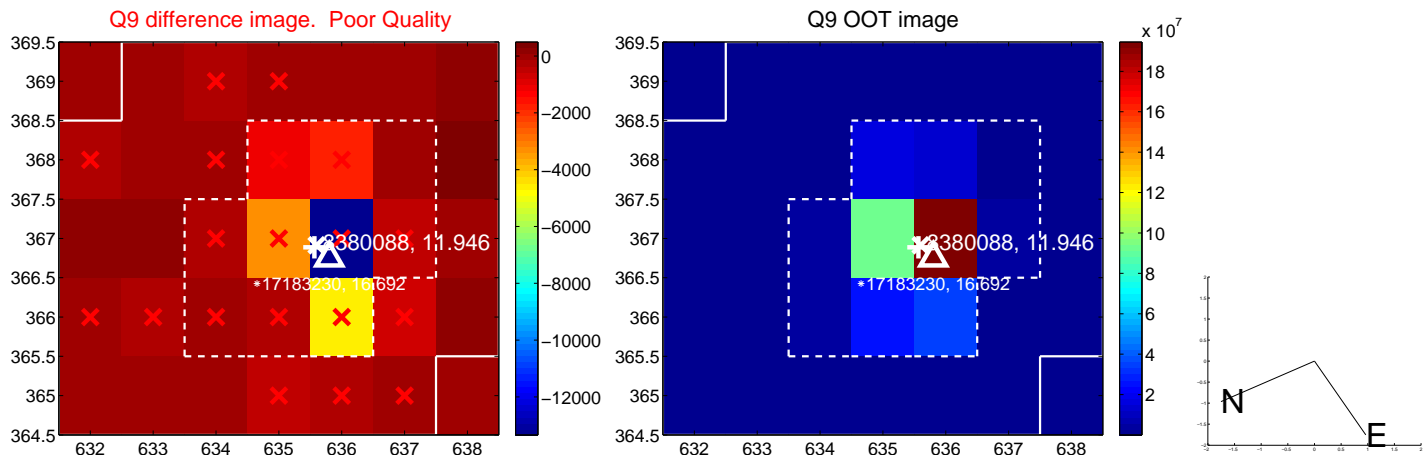
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



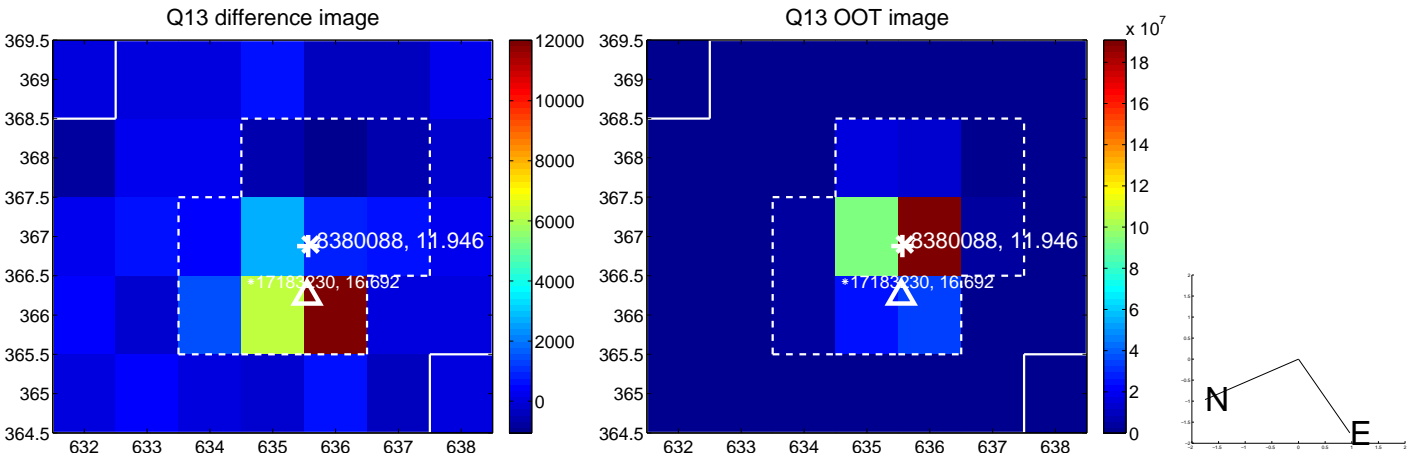
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



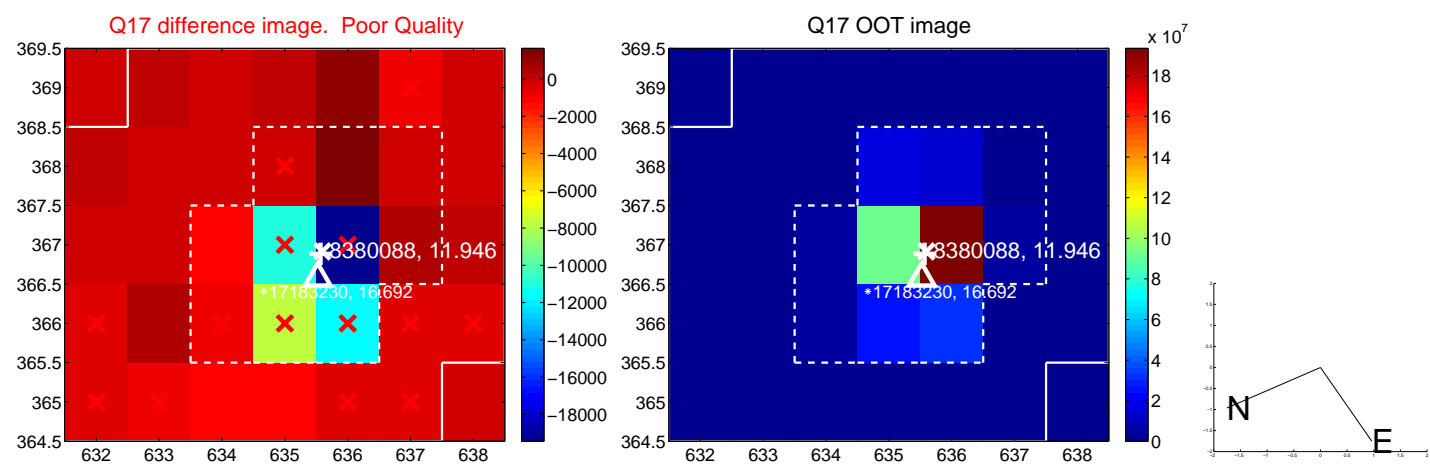
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



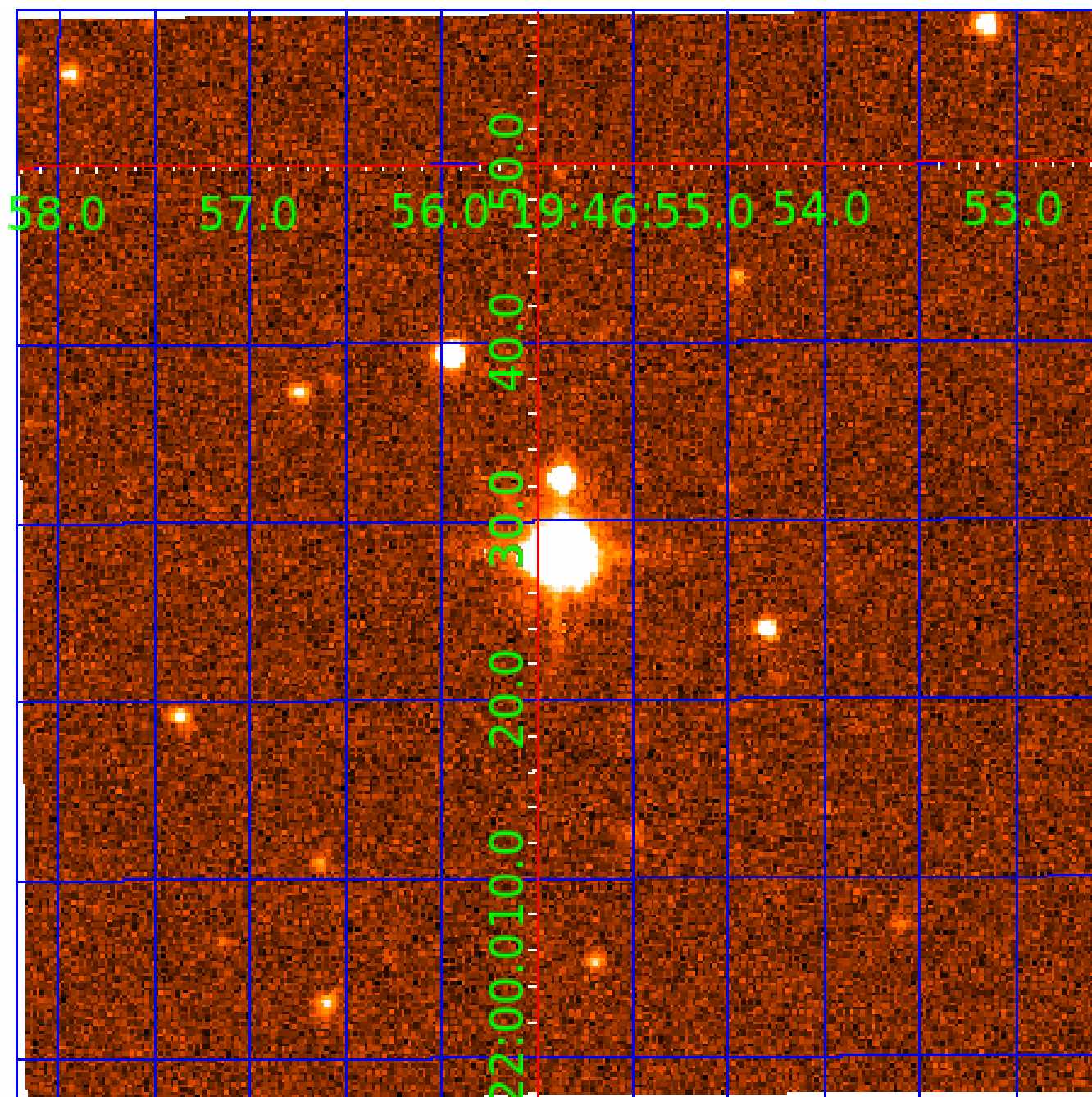
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008380088

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})
008380088-01	OBS	No	0.664840	132.053481	16.8	5.067	10.7	6.4	7.88	6967	3.29	0.00
008380088-02	OBS	No	3.699405	133.023020	213.1	2.607	12.8	17.4	7.88	6967	12.45	29996.38
008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
008380088-06	OBS	No	5.229491	132.991932	425.1	1.320	12.9	18.7	7.88	6967	16.43	18907.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008380088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

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

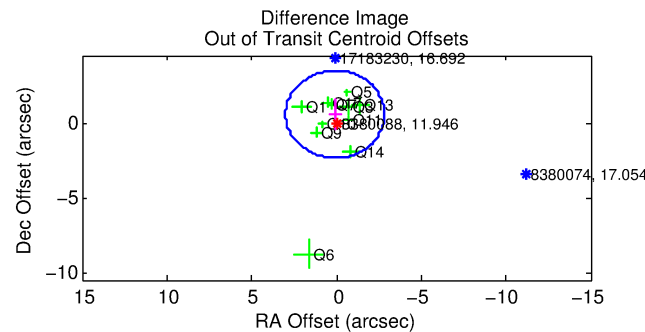
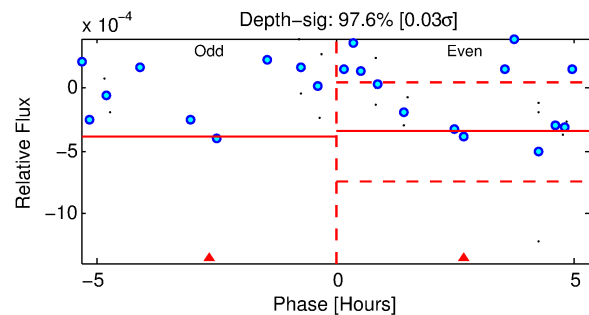
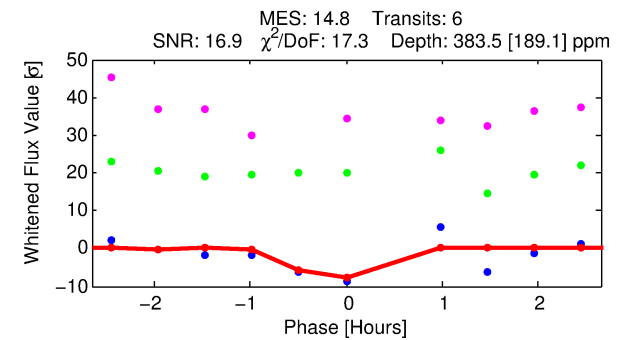
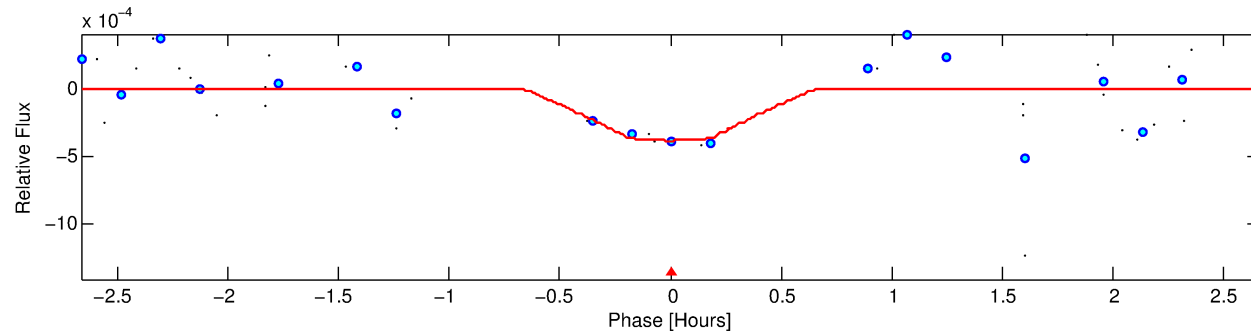
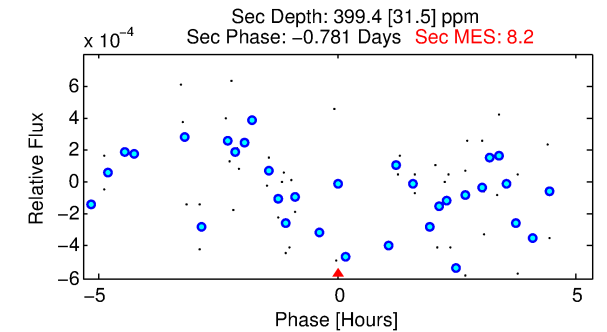
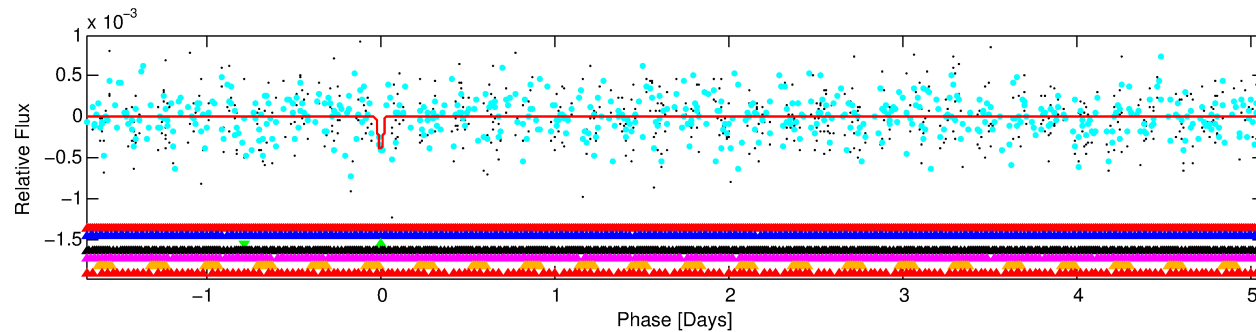
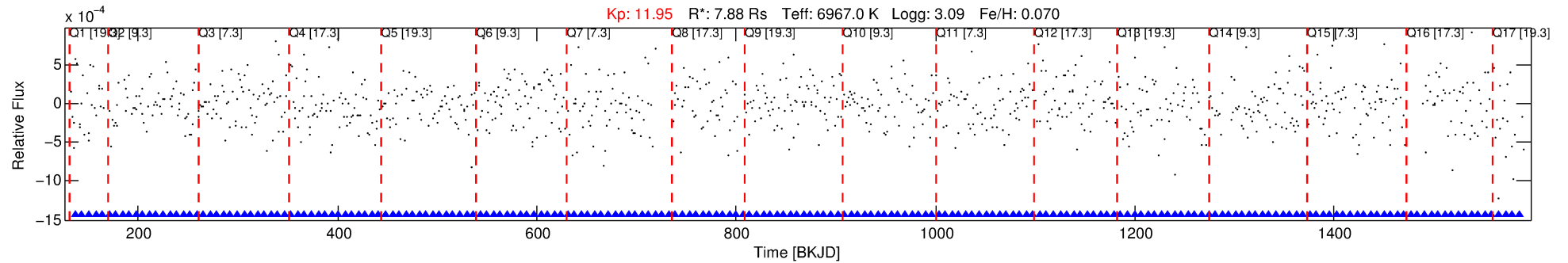
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008380088-03

No Significant Match Found

DV One-Page Summary

KIC: 8380088 Candidate: 3 of 7 Period: 6.768 d



DV Fit Results:

Period = 6.76798 [0.00012] d
Epoch = 136.9992 [0.0169] BKJD
 R_p/R^* = 0.0186 [0.3731]
 a/R^* = 54.51 [5698.67]
 b = 0.40 [224.09]
 S_{eff} = 13405.99 [13069.24]
 T_{eq} = 2744 [669] K
 R_p = 15.97 [320.72] R_e
 a = 0.0988 [0.0581] AU
 A_g = 8.42 [338.06] [0.02 σ]
 T_{eff} = 7226 [72537] K [0.06 σ]

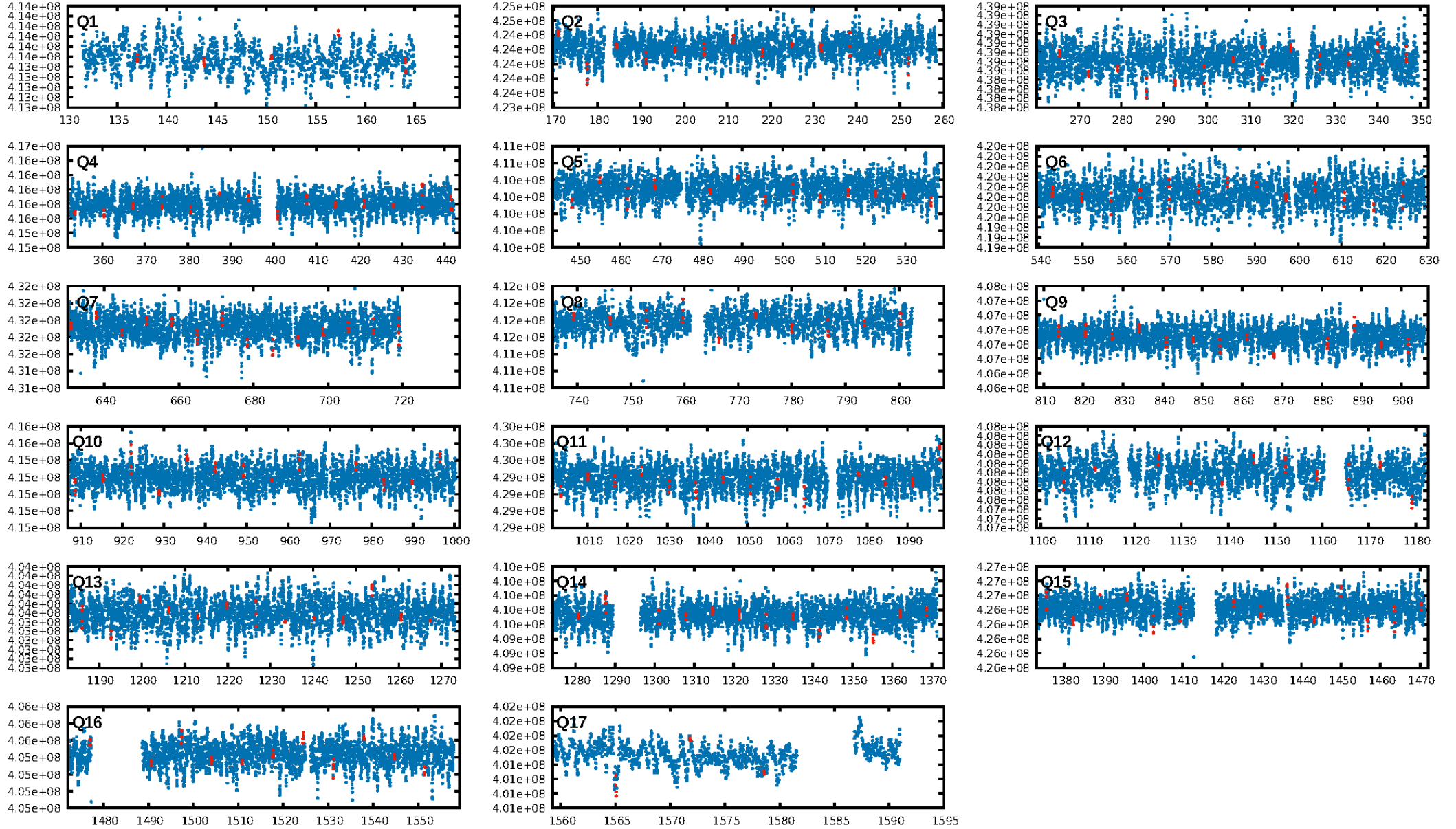
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [23.21 σ]
LongPeriod-sig: 100.0% [6.01 σ]
ModelChiSquare2-sig: 53.0%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 5.42e-05
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 0.6271
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.568 arcsec [0.58 σ]
KicOffset-rm: 0.707 arcsec [0.87 σ]
OotOffset-st: 3/3/0/5 [11]
KicOffset-st: 3/3/0/5 [11]
DiffImageQuality-fgm: 0.73 [8/11]
DiffImageOverlap-fno: 0.00 [0/17]

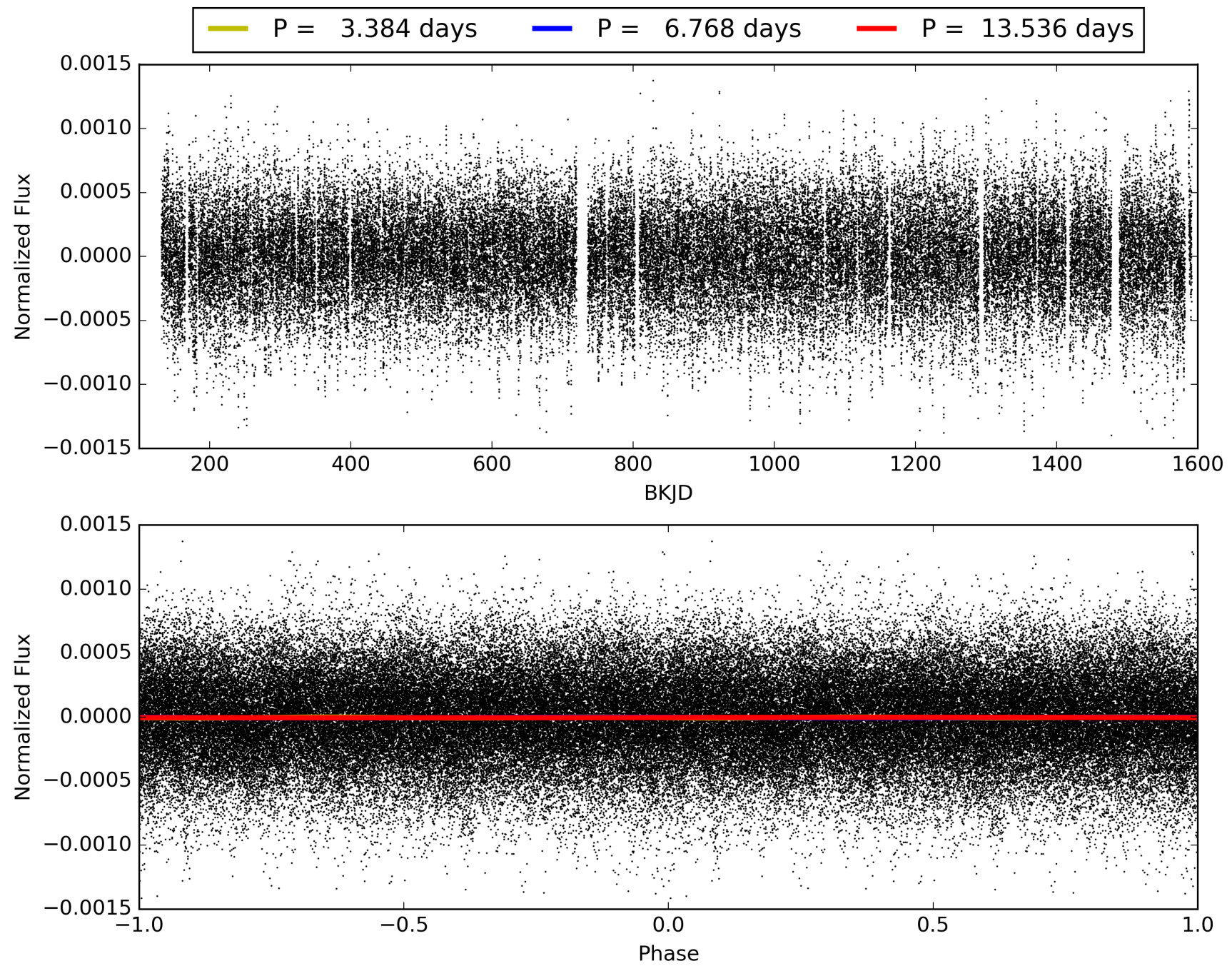
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:54:24 Z

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

TCE 008380088-03, PDC Light Curves

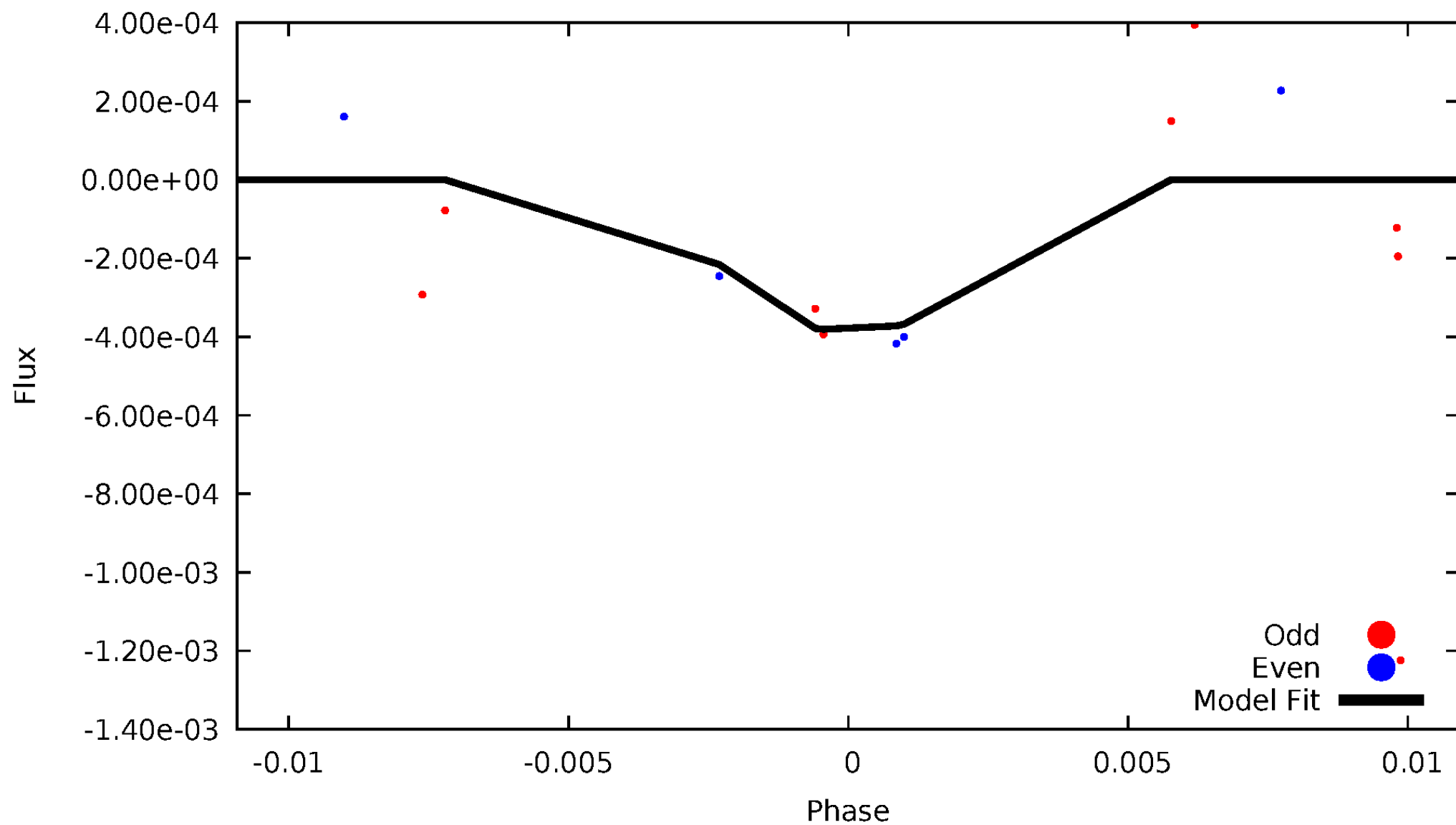


TCE 008380088-03



DV Odd/Even

TCE 008380088-03

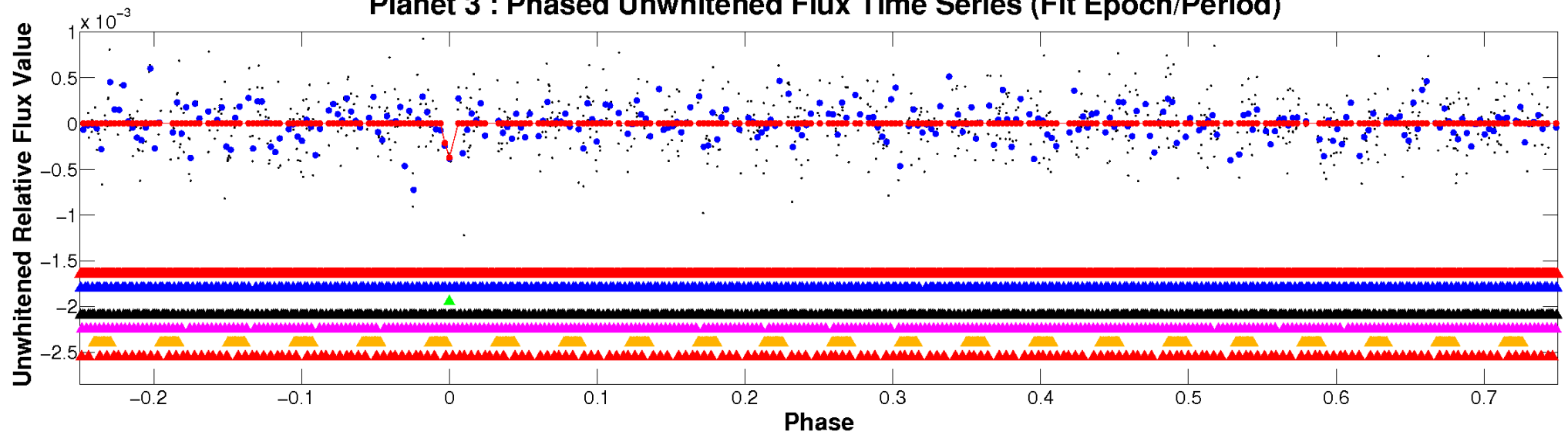


ALT Odd/Even

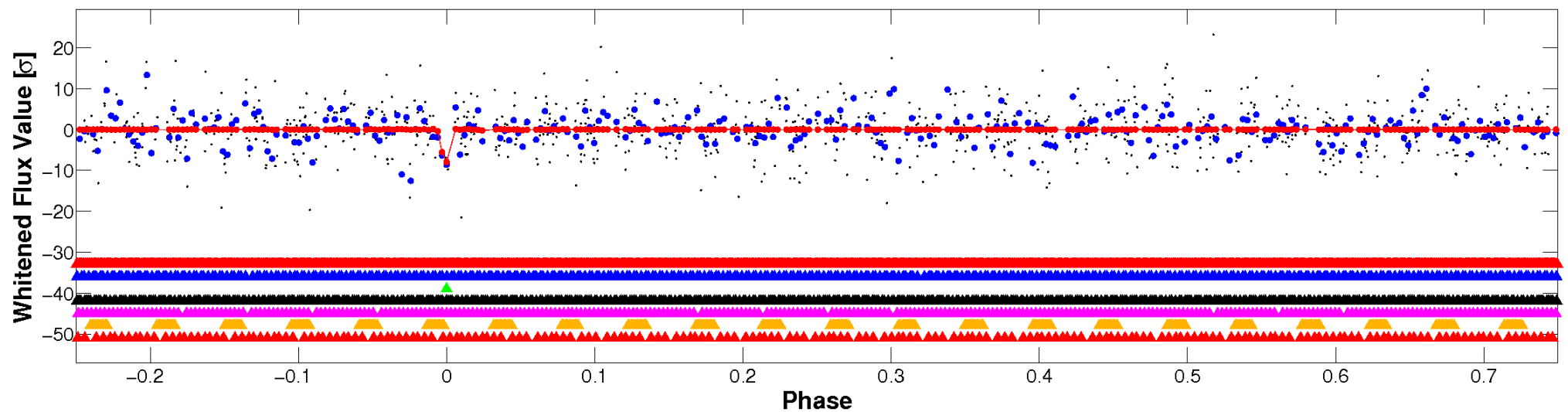
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

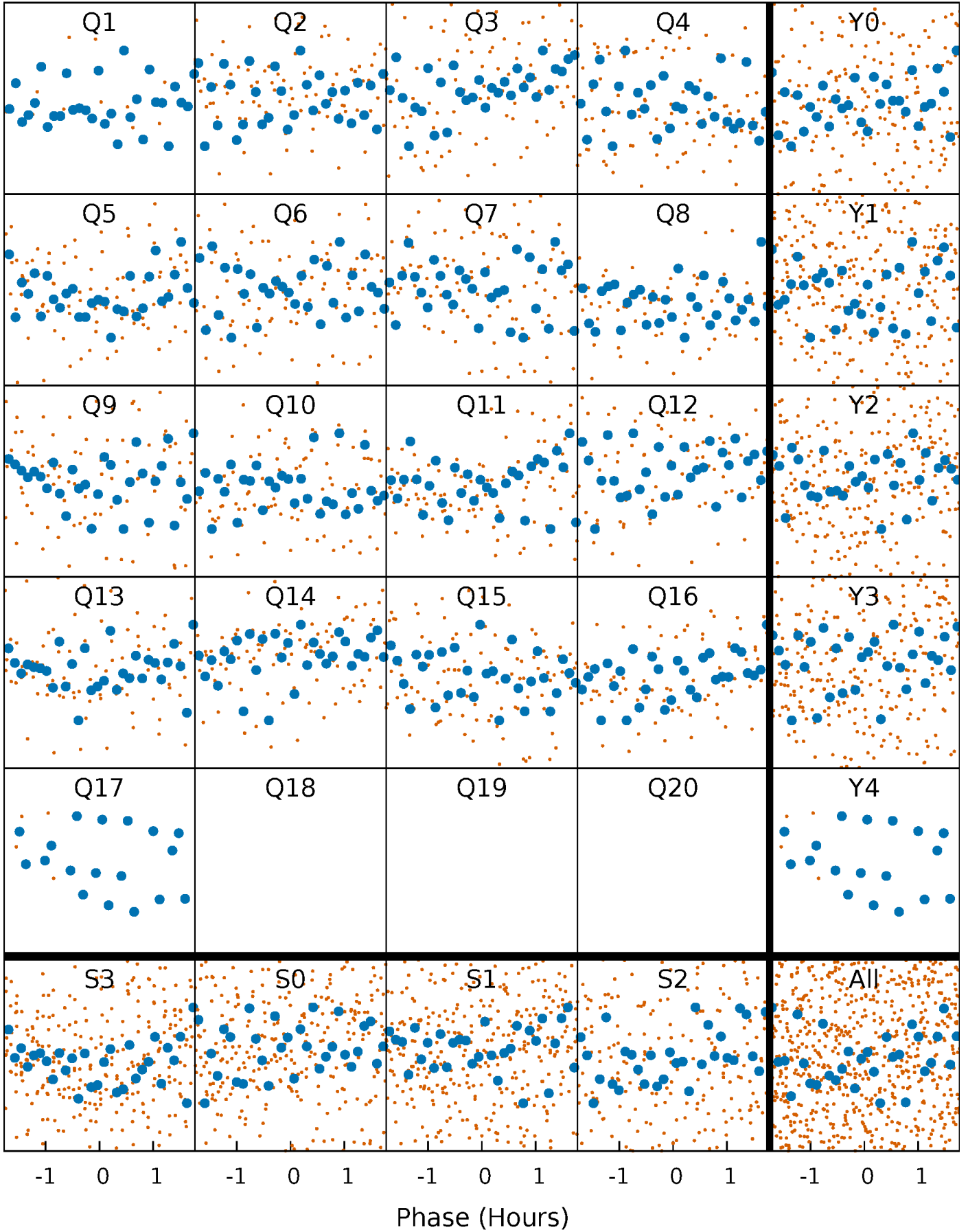


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



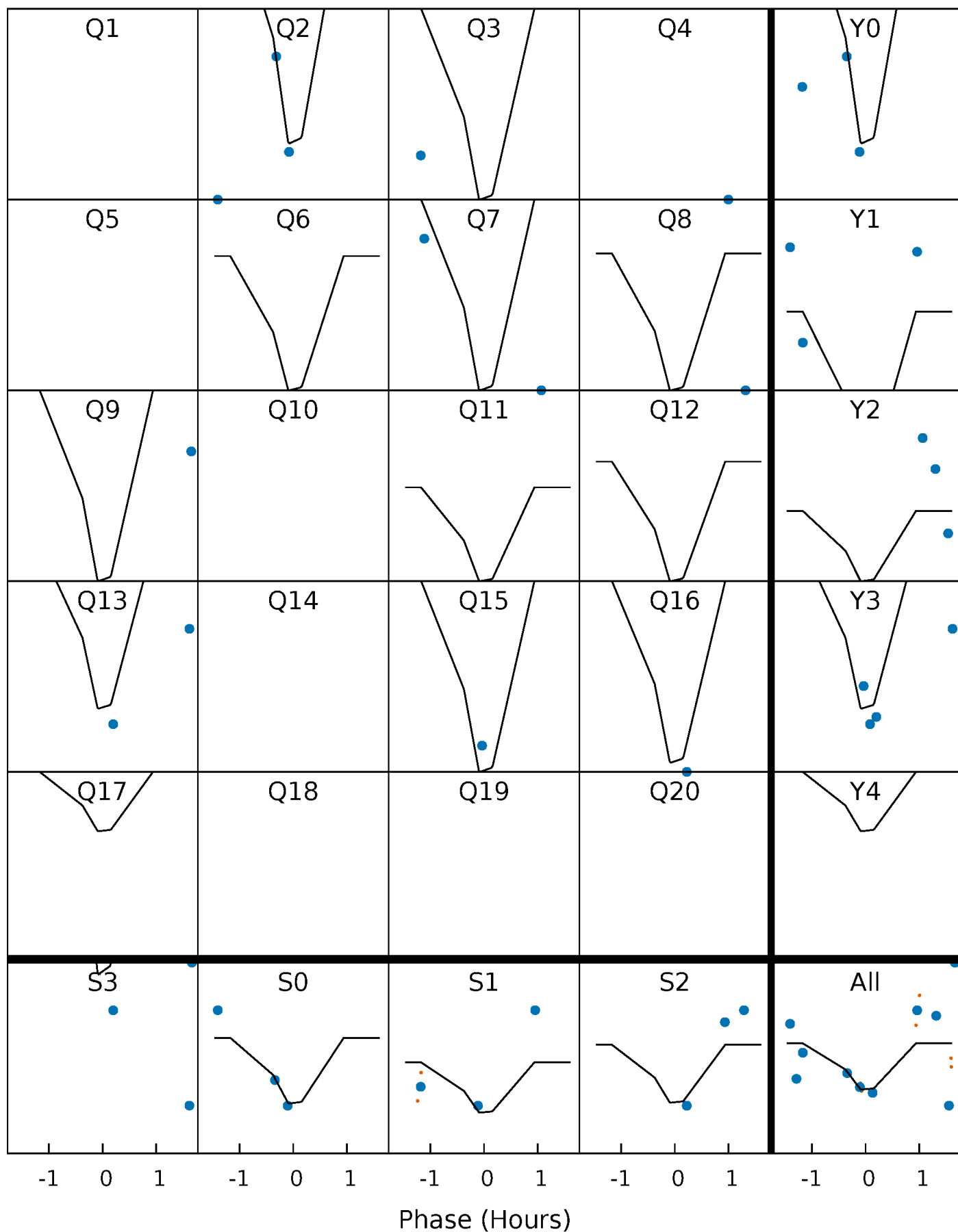
PDC Quarter-Phased Transit Curves

TCE 008380088-03 P= 6.767984 Days $T_0=136.999157$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008380088-03 P= 6.767984 Days $T_0=136.999157$ (BKJD)

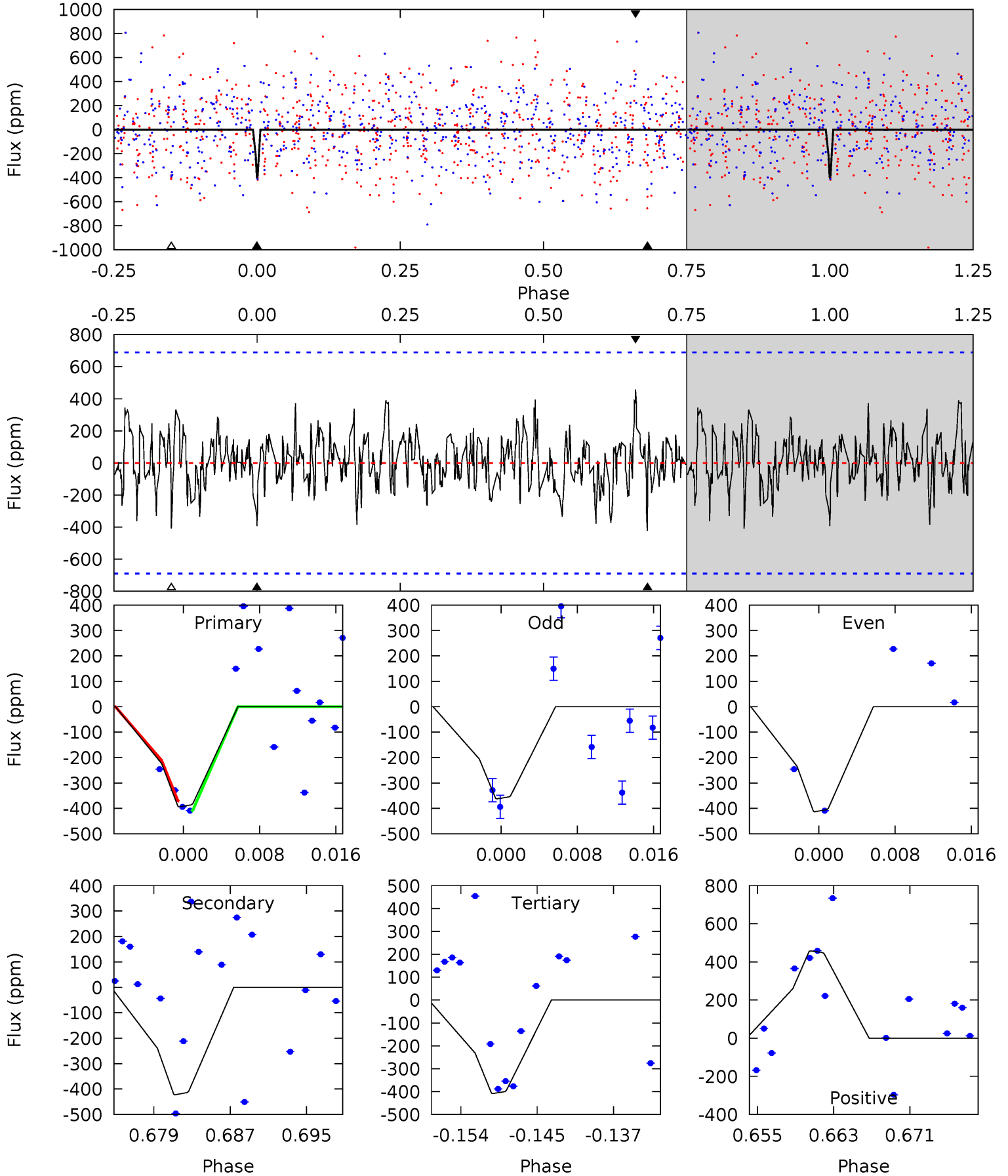


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008380088-03, P = 6.767984 Days, E = 130.231173 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.89	3.10	3.00	3.36	5.07	2.65	1.03	-0.11	-0.47	0.10	-0.26	0.19	0	0.52	0.15



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-423 ± 136	$184.72^{+206.56}_{-123.78}$	3702^{+280}_{-531}	-3243^{+6483}_{-333}	$0.060^{+0.481}_{-0.046}$
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 $A_{obs} \gg 1.0$

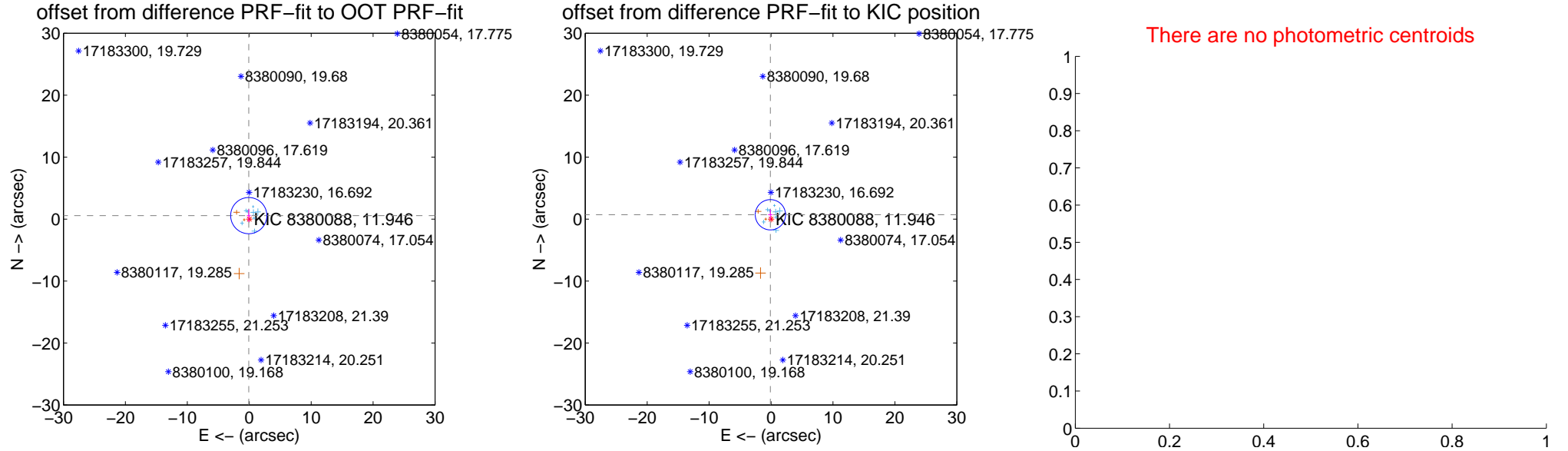
DV Centroid Data

Supplemental centroid analysis for 008380088-03. **Kepler magnitude: 11.95.** Transit SNR 16.86

There are 8 quarters with good PRF difference image offsets

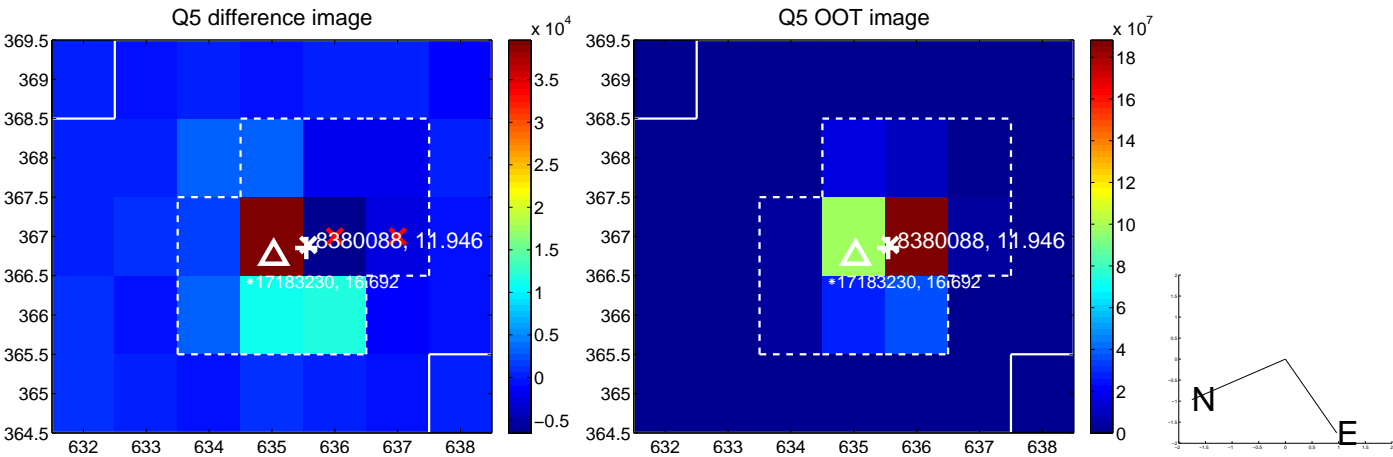
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.568 ± 0.974	0.58	0.081 ± 0.311	0.563 ± 1.002
PRF-fit source offset from KIC position	0.707 ± 0.815	0.87	0.103 ± 0.372	0.700 ± 0.838
photometric centroid source offset	—	—	—	—

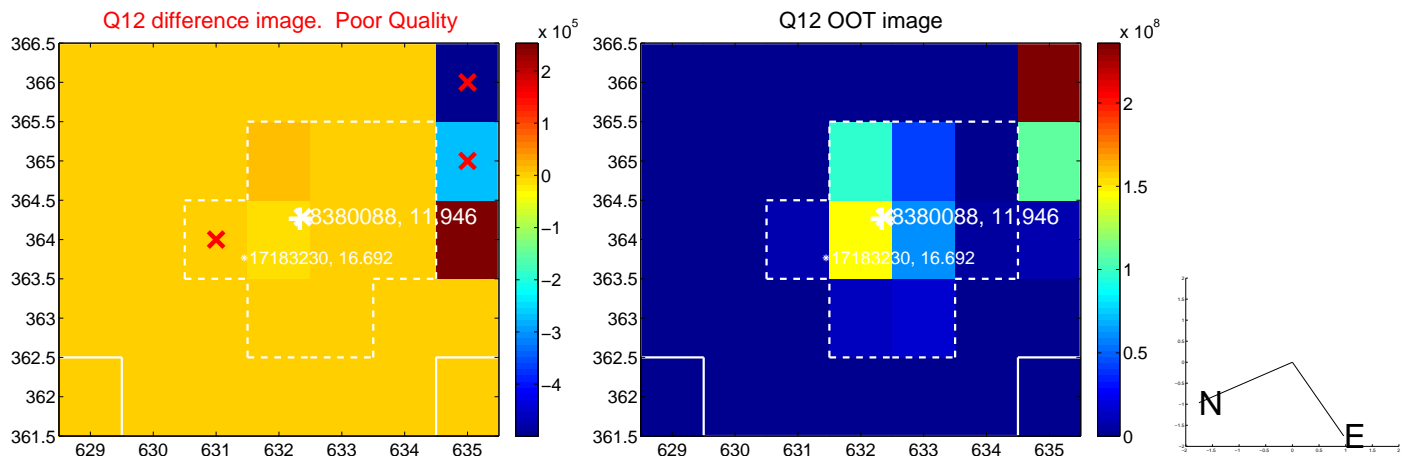
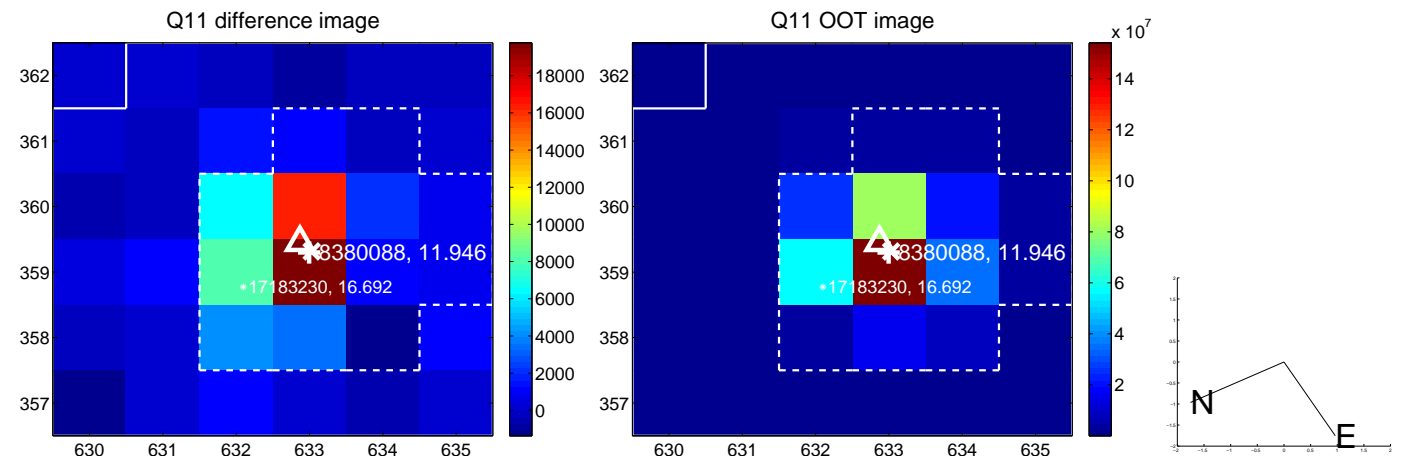
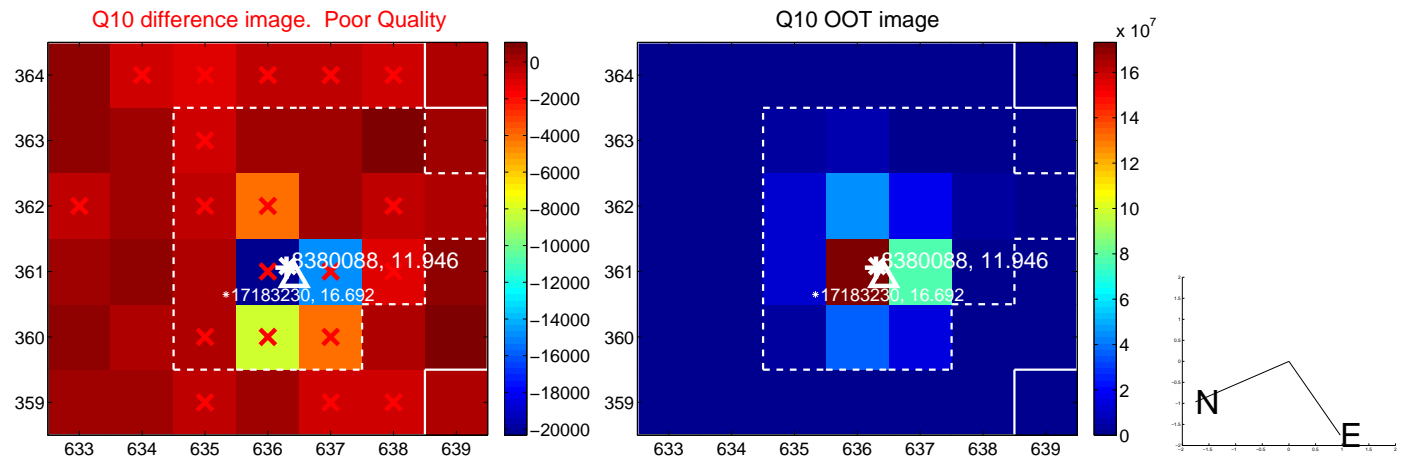
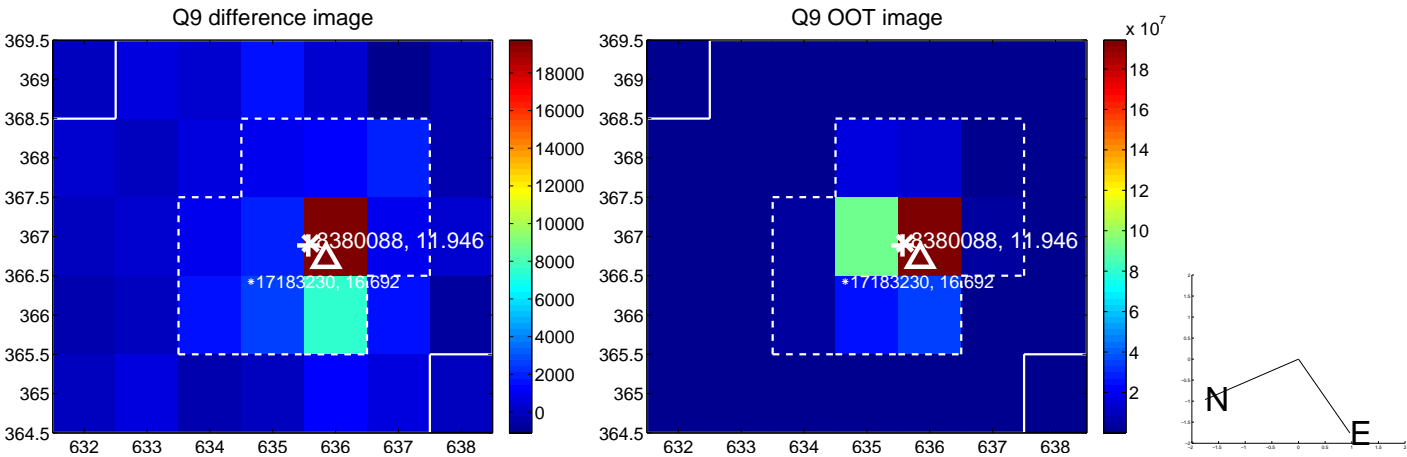


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

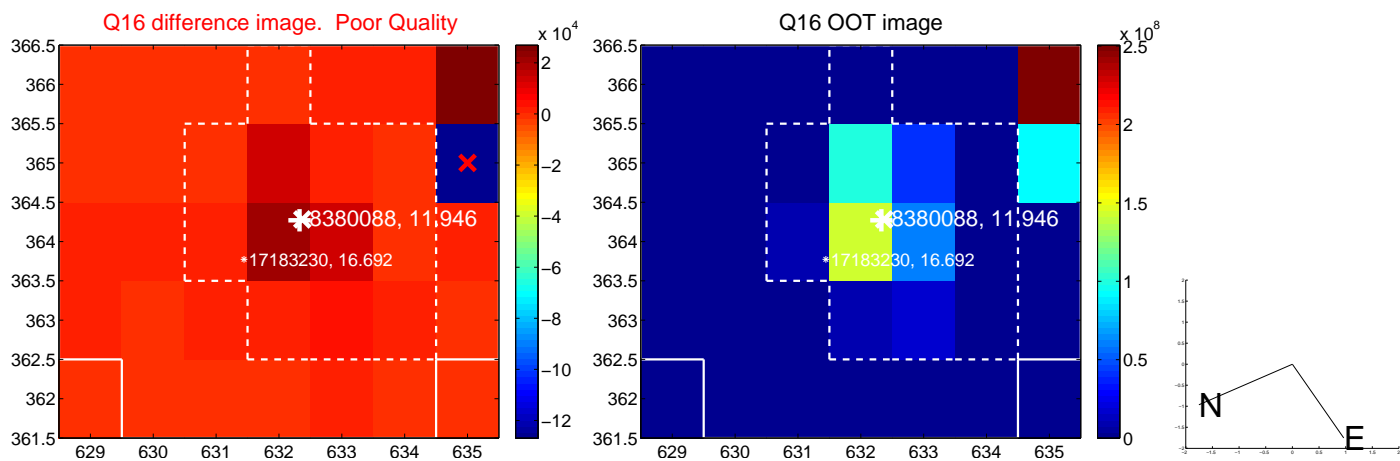
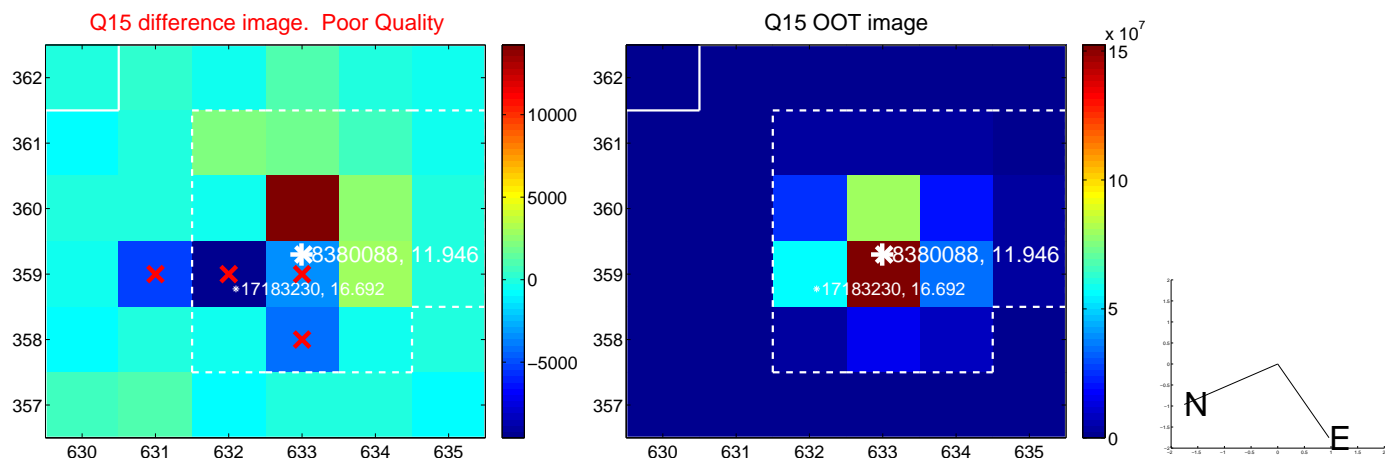
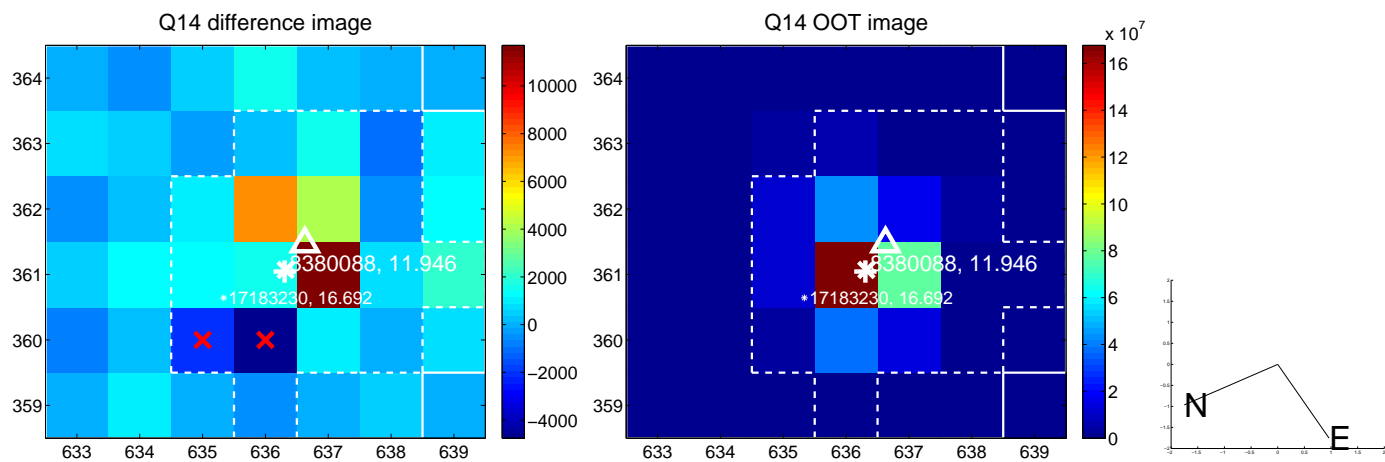
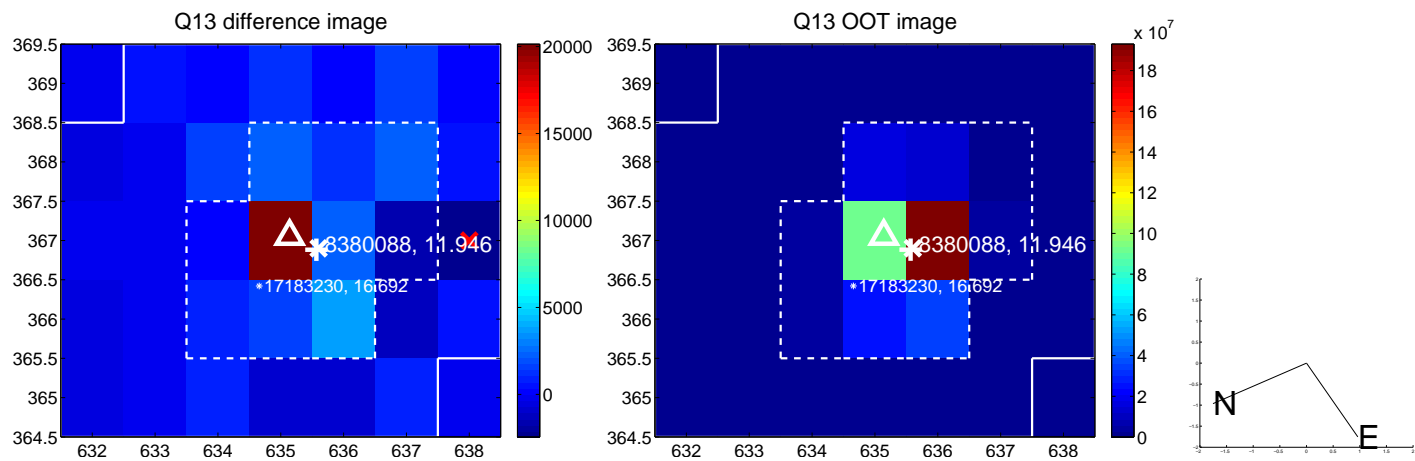
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



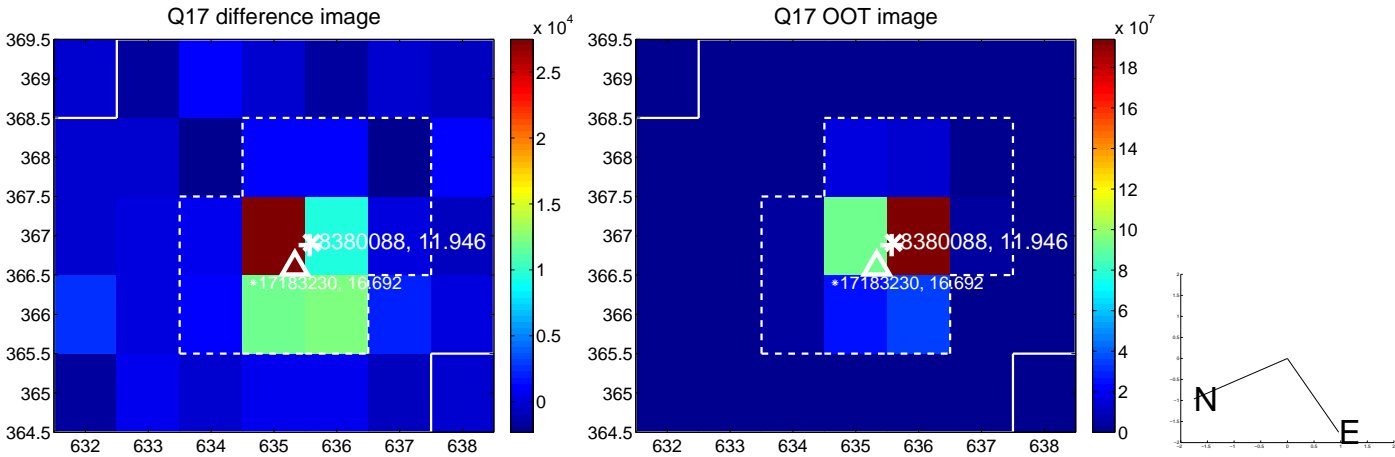
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



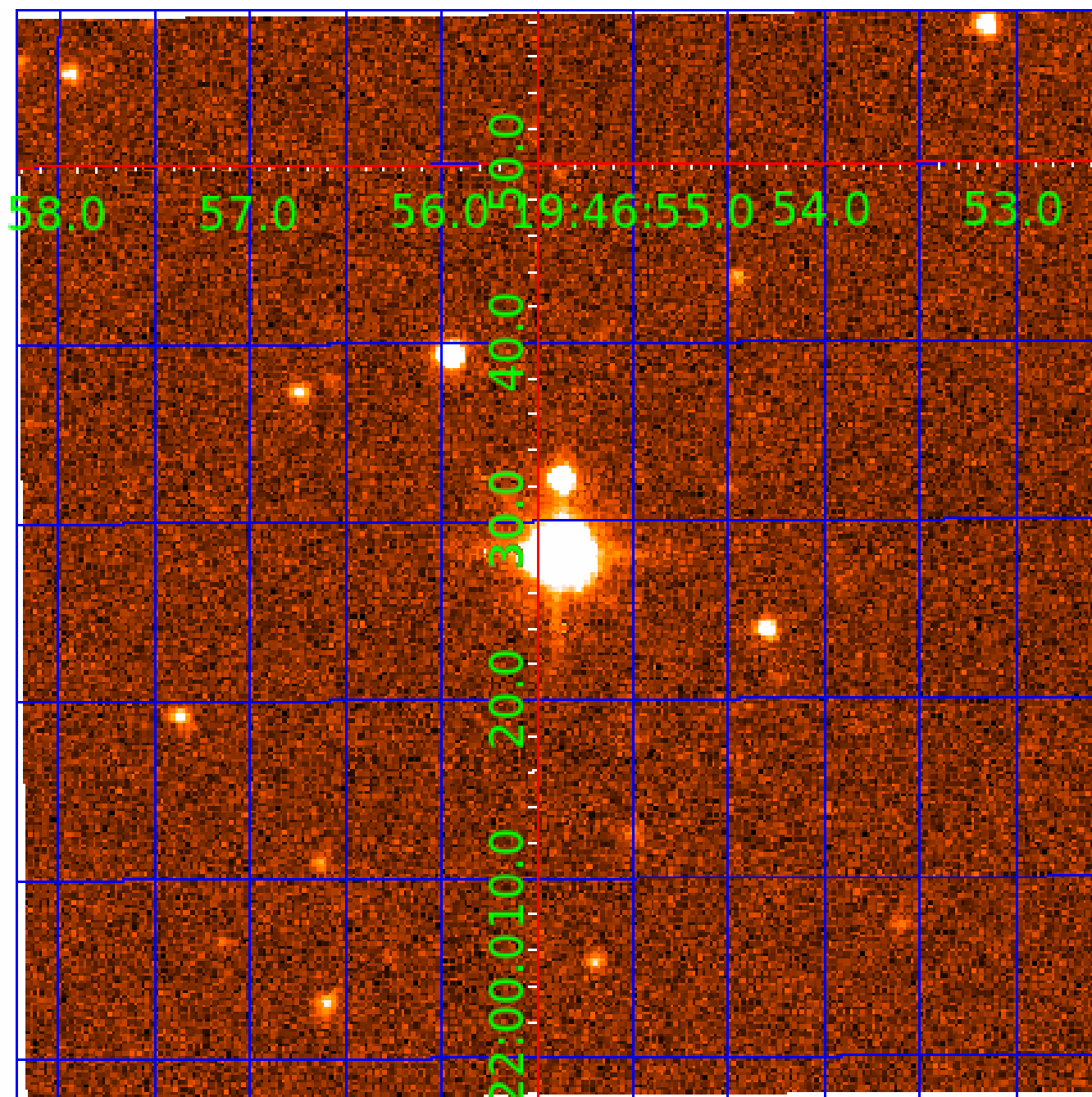
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008380088

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})
008380088-01	OBS	No	0.664840	132.053481	16.8	5.067	10.7	6.4	7.88	6967	3.29	0.00
008380088-02	OBS	No	3.699405	133.023020	213.1	2.607	12.8	17.4	7.88	6967	12.45	29996.38
008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
008380088-06	OBS	No	5.229491	132.991932	425.1	1.320	12.9	18.7	7.88	6967	16.43	18907.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008380088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

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

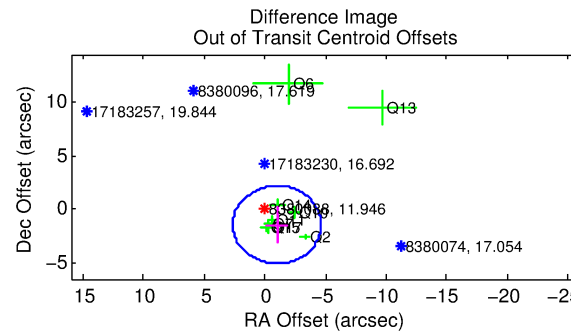
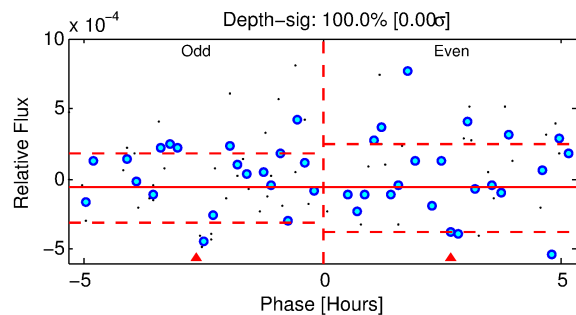
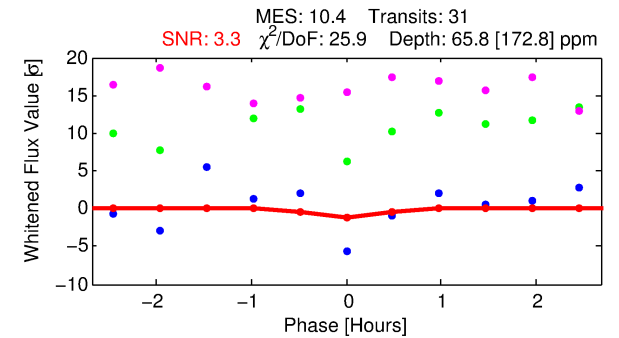
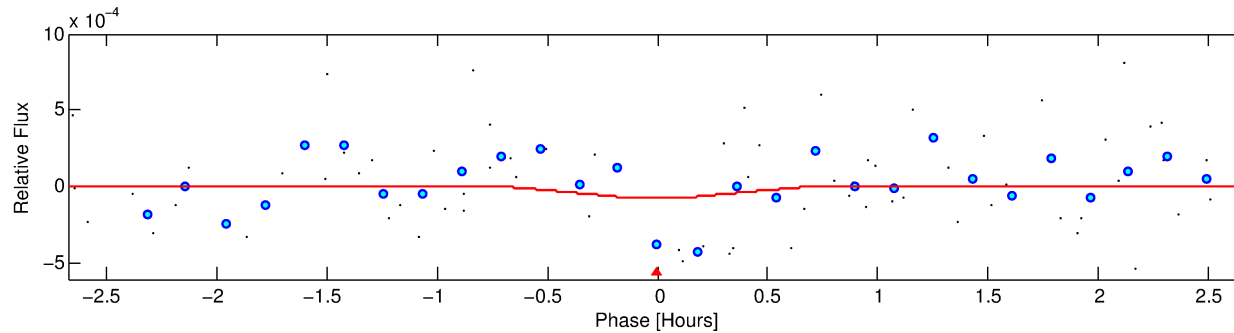
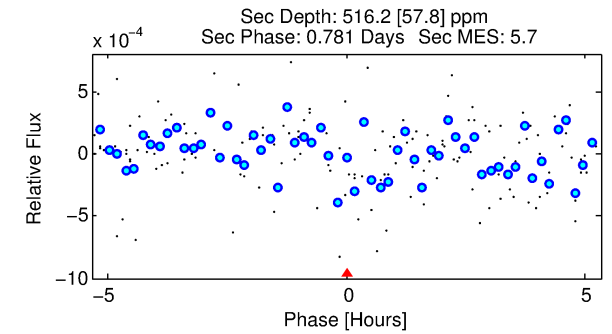
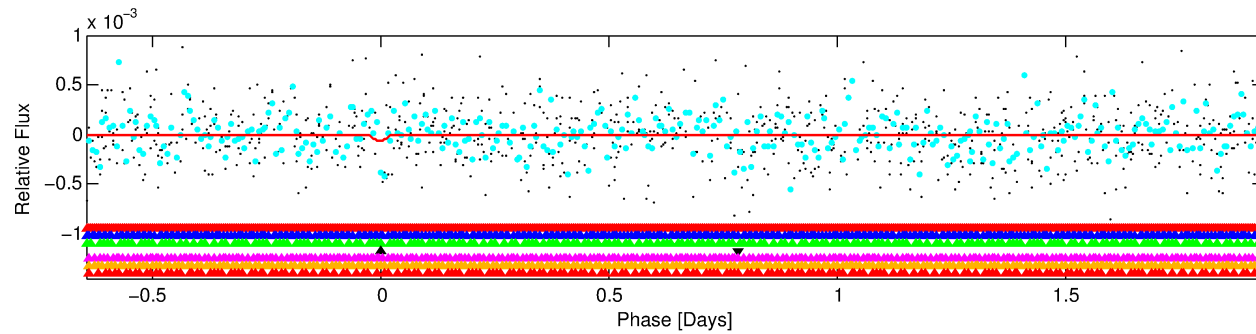
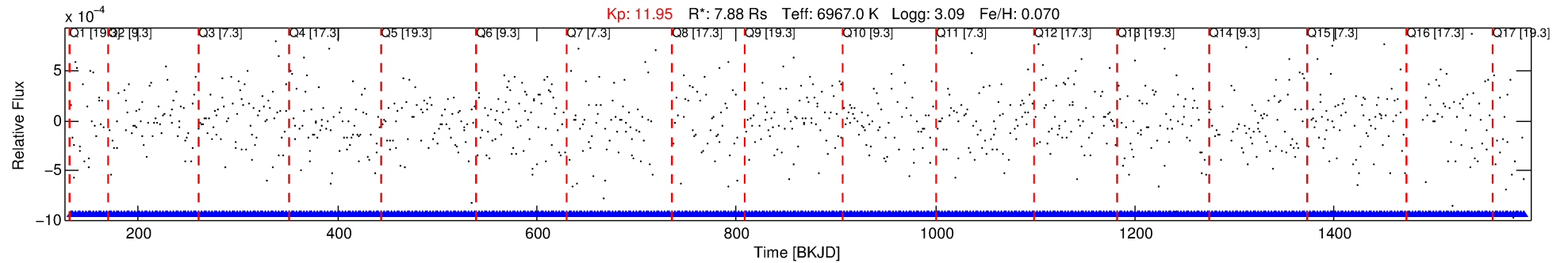
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008380088-04

No Significant Match Found

DV One-Page Summary

KIC: 8380088 Candidate: 4 of 7 Period: 2.580 d



DV Fit Results:

Period = 2.58041 [0.00017] d
Epoch = 131.9618 [0.0288] BKJD
Rp/R* = 0.0087 [0.0373]
a/R* = 10.12 [258.50]
b = 0.90 [5.49]
Seff = 48490.90 [47272.86]
Teff = 3784 [922] K
Rp = 7.50 [32.34] Re
a = 0.0520 [0.0305] AU
Ag = 13.61 [117.04] [0.11 σ]
Teffp = 11238 [24003] K [0.31 σ]

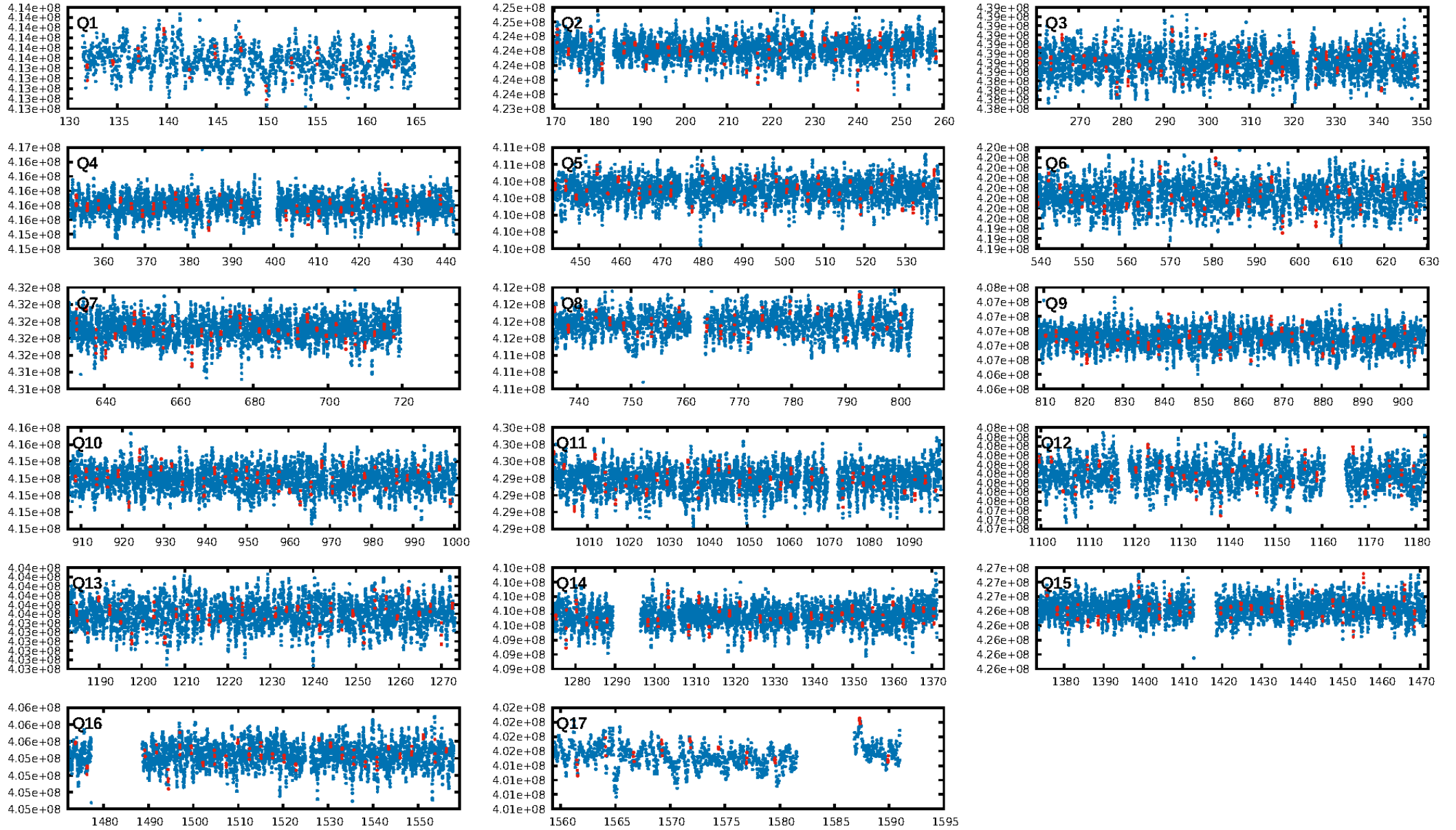
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [8.94 σ]
LongPeriod-sig: 100.0% [9.75 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 6.11e-05
RollingBand-fgt: 1.00 [30/30]
GhostDiagnostic-chr: -0.802
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.748 arcsec [1.44 σ]
KicOffset-rm: 1.416 arcsec [1.07 σ]
OotOffset-st: 4/3/0/2 [9]
KicOffset-st: 4/3/0/2 [9]
DiffImageQuality-fgm: 0.44 [4/9]
DiffImageOverlap-fno: 0.00 [0/17]

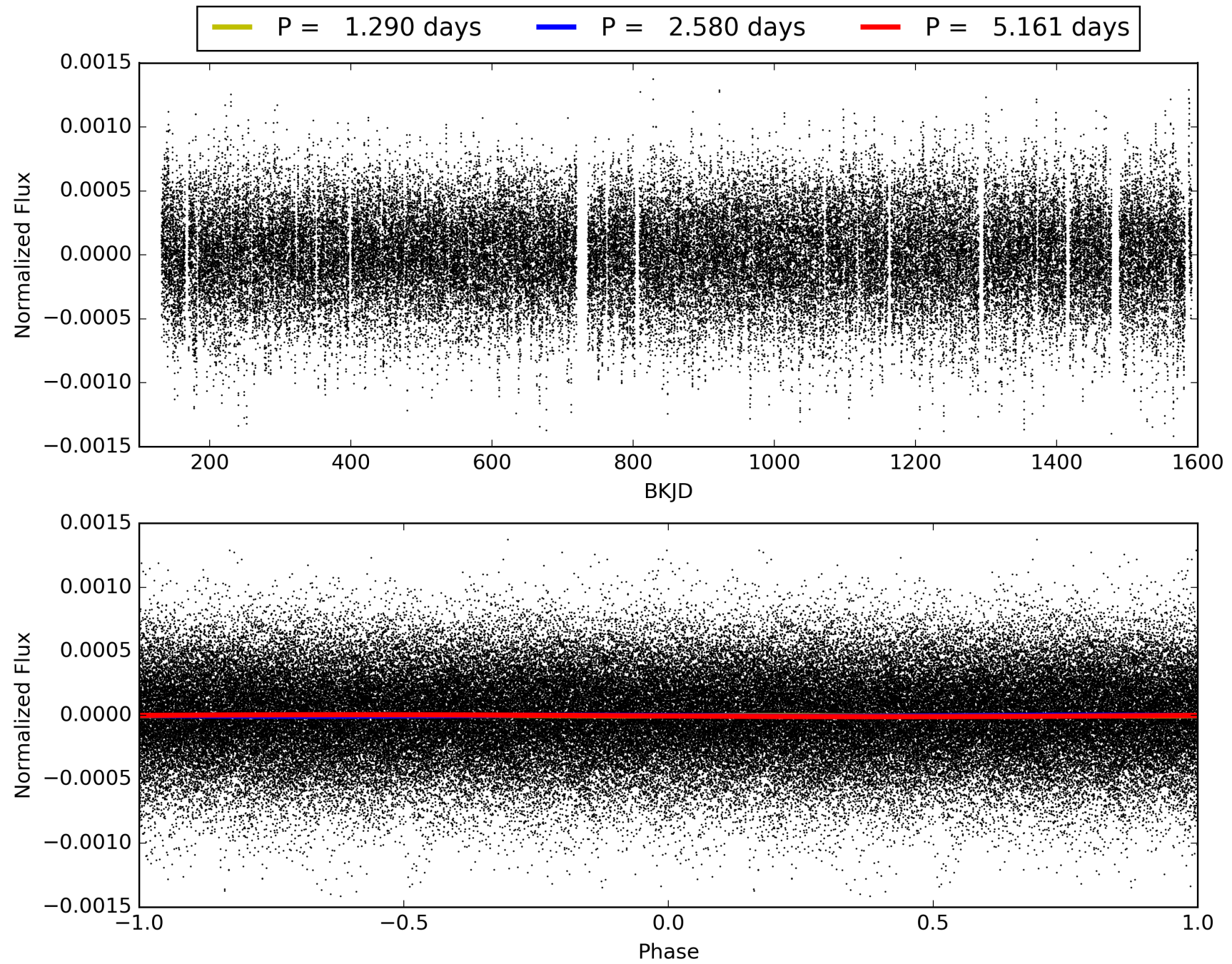
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 01:54:27 Z

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

TCE 008380088-04, PDC Light Curves

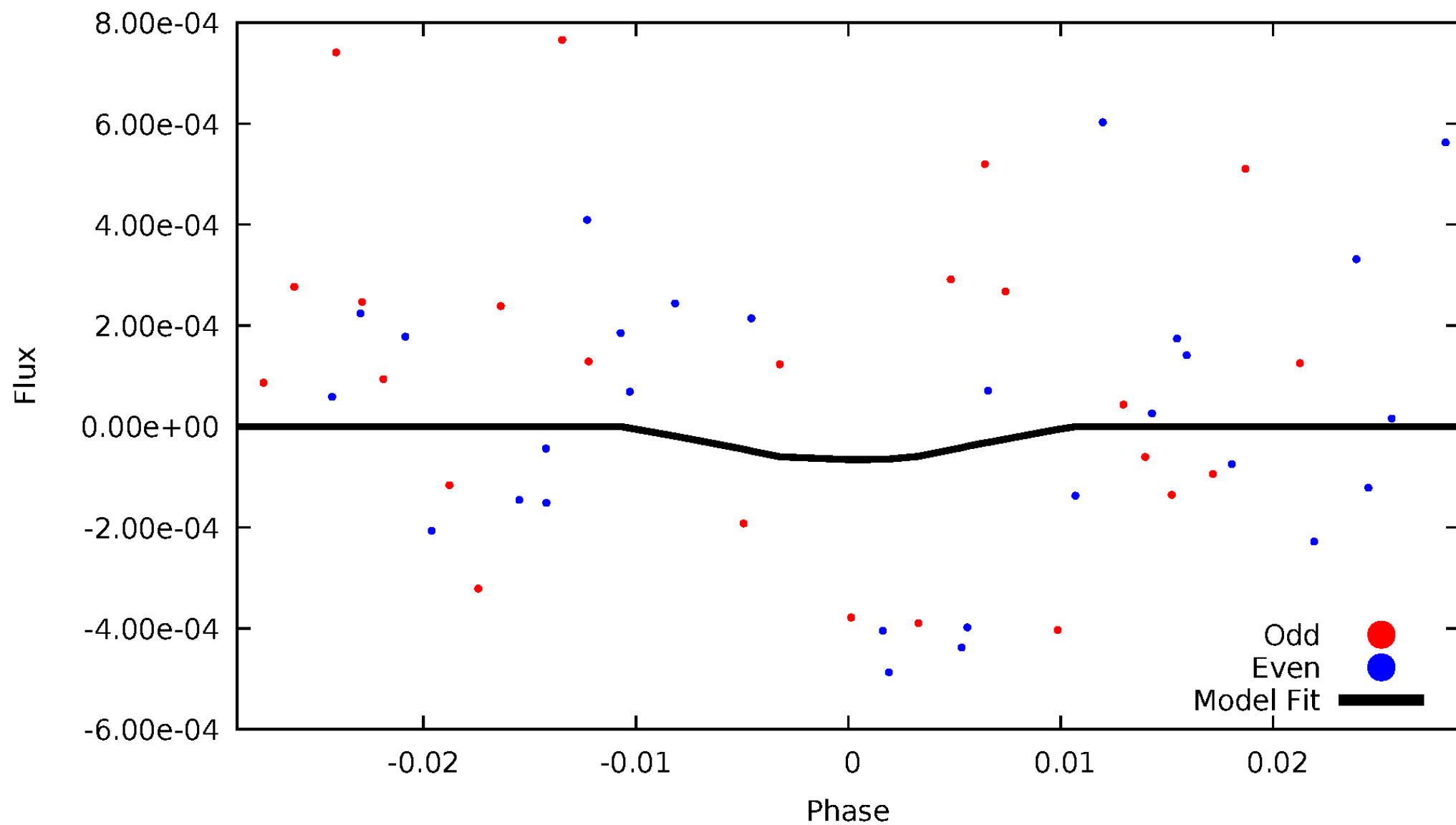


TCE 008380088-04



DV Odd/Even

TCE 008380088-04

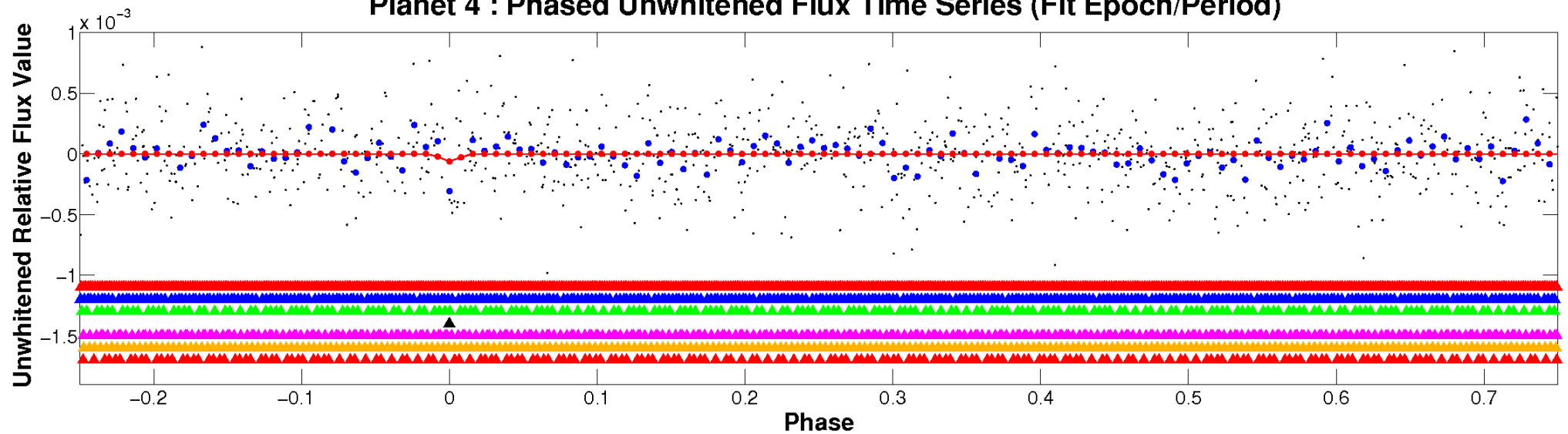


ALT Odd/Even

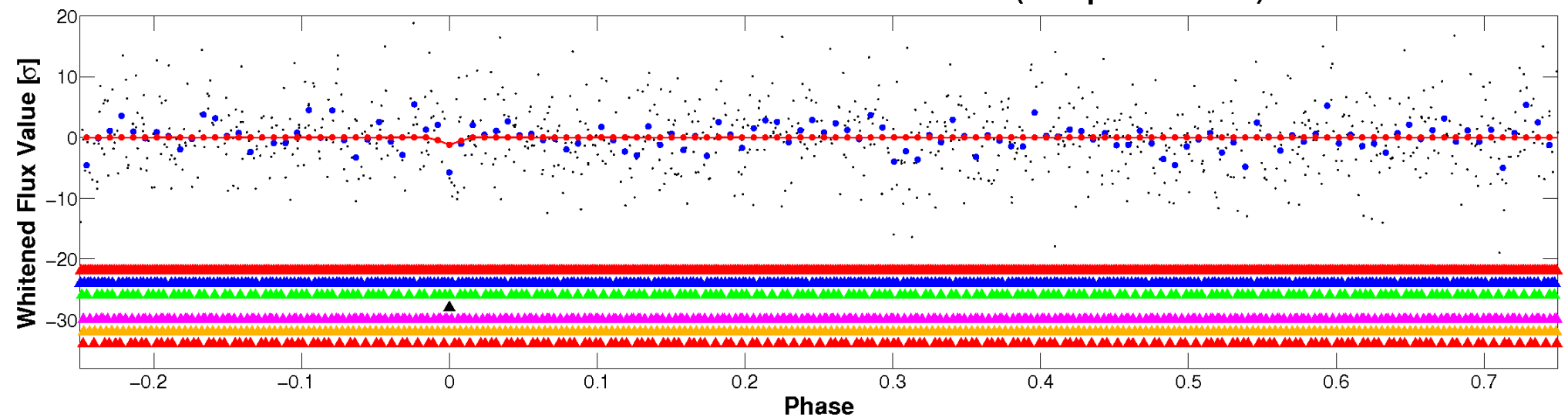
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

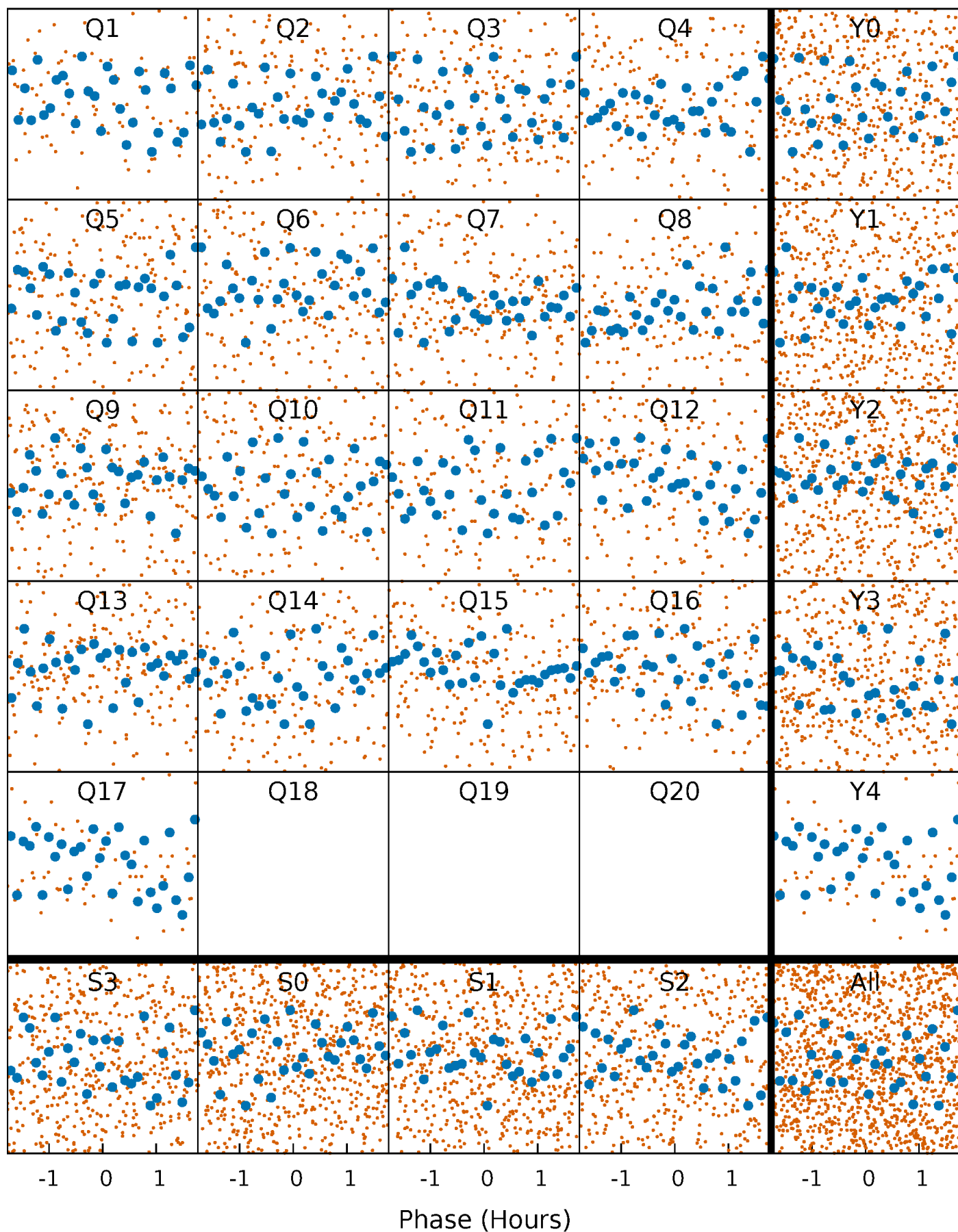


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



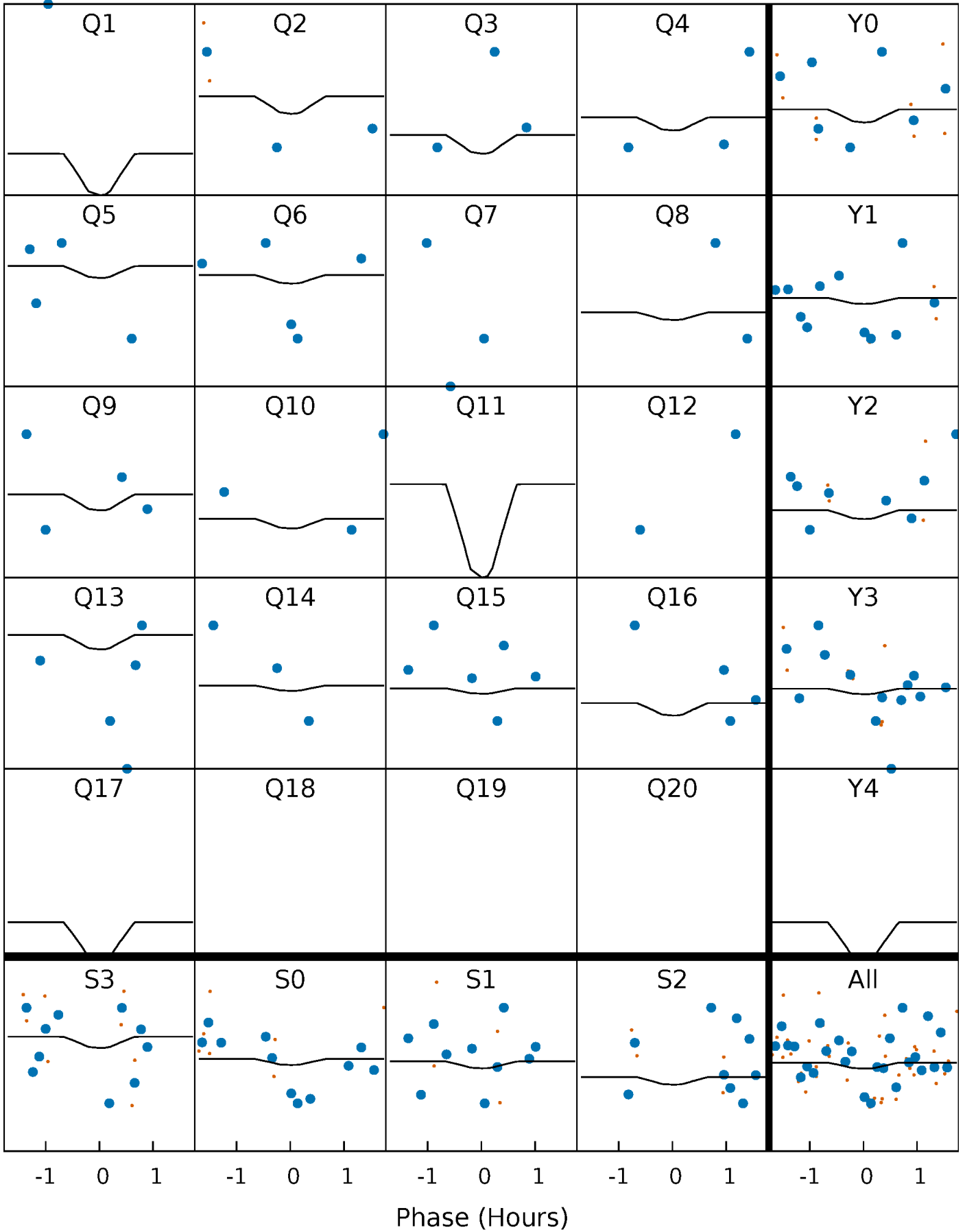
PDC Quarter-Phased Transit Curves

TCE 008380088-04 P= 2.580408 Days $T_0=131.961796$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008380088-04 $P = 2.580408$ Days $T_0 = 131.961796$ (BKJD)

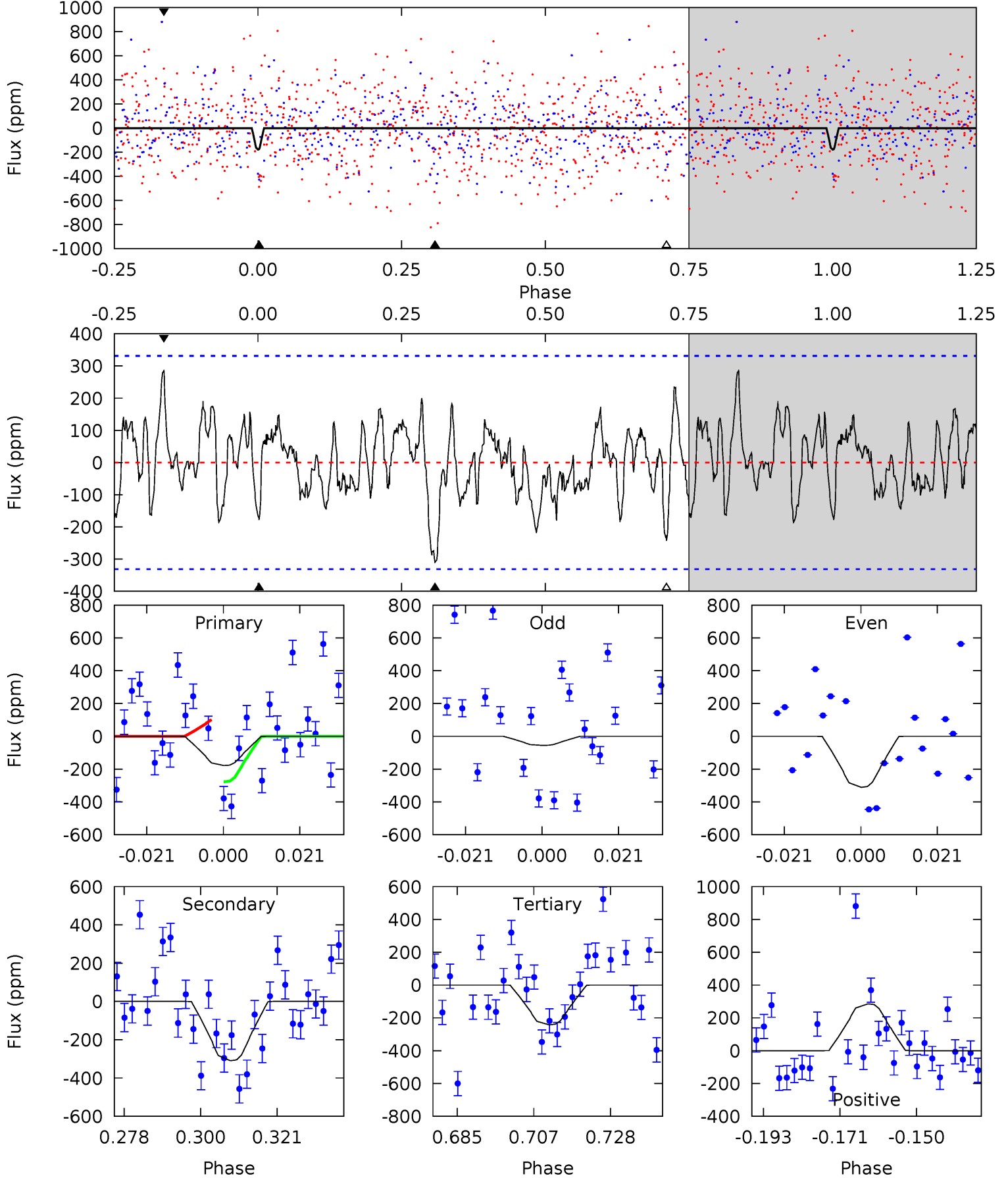


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008380088-04, P = 2.580408 Days, E = 129.381388 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.62	4.56	3.57	4.20	4.88	2.30	1.37	-0.95	-1.58	0.99	0.36	1.91	0	0.48	1.21



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-310 ± 68	$20.06^{+25.77}_{-13.87}$	5094^{+385}_{-745}	5066^{+5799}_{-8599}	$1.068^{+10.437}_{-0.851}$
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 $A_{\text{obs}} \gg 1.0$

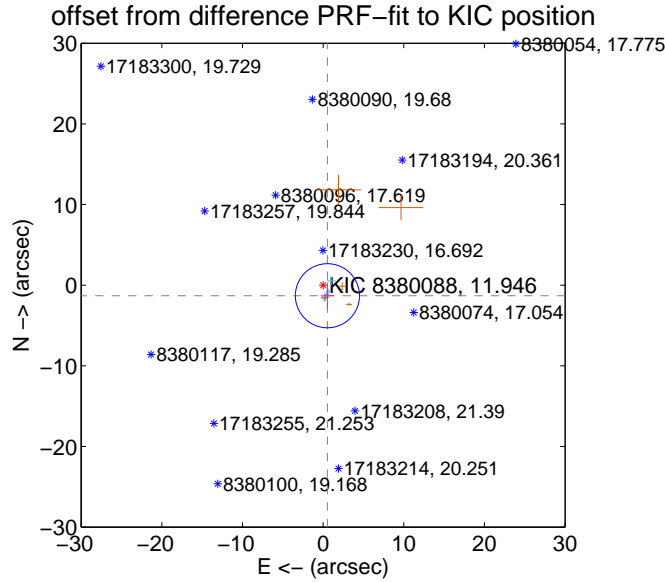
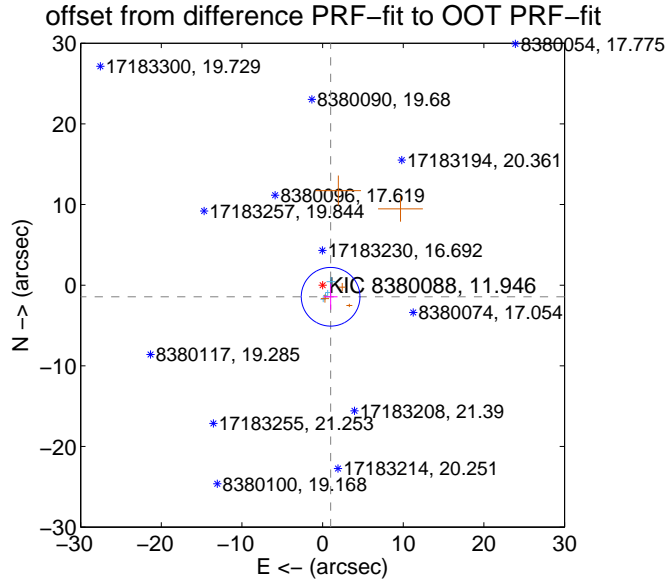
DV Centroid Data

Supplemental centroid analysis for 008380088-04. **Kepler magnitude: 11.95.** Transit SNR 3.28

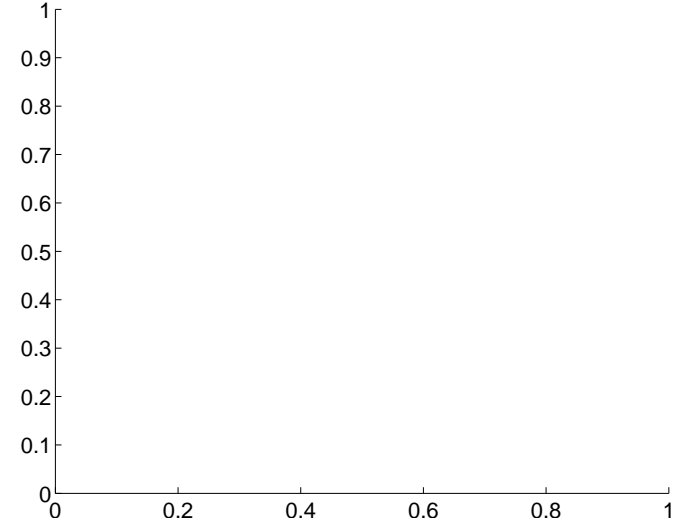
There are 4 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.748 ± 1.213	1.44	-0.994 ± 0.862	-1.438 ± 1.613
PRF-fit source offset from KIC position	1.416 ± 1.324	1.07	-0.533 ± 0.813	-1.311 ± 1.606
photometric centroid source offset	—	—	—	—

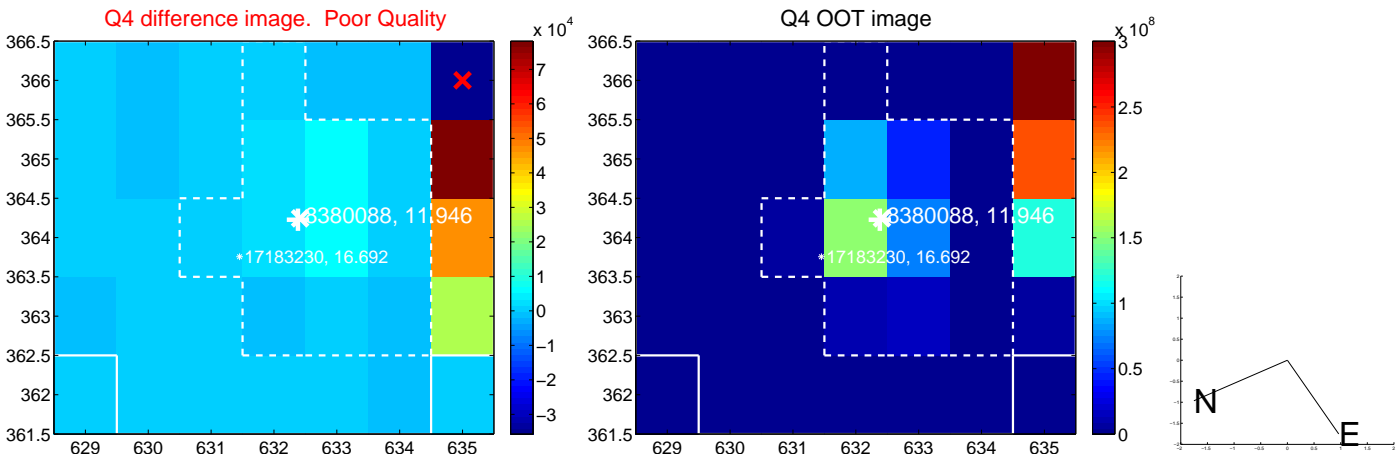
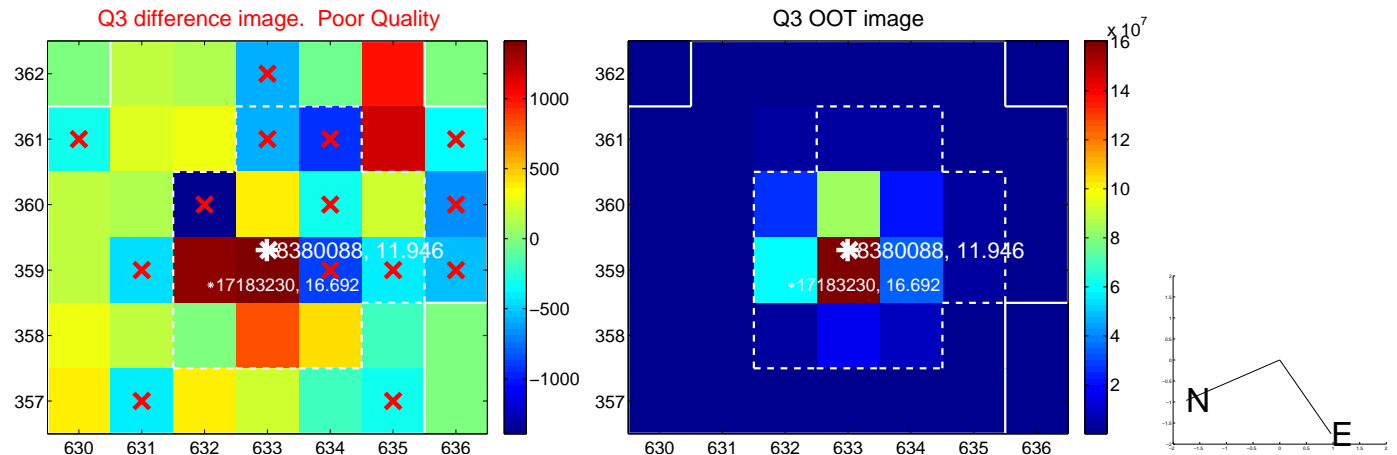
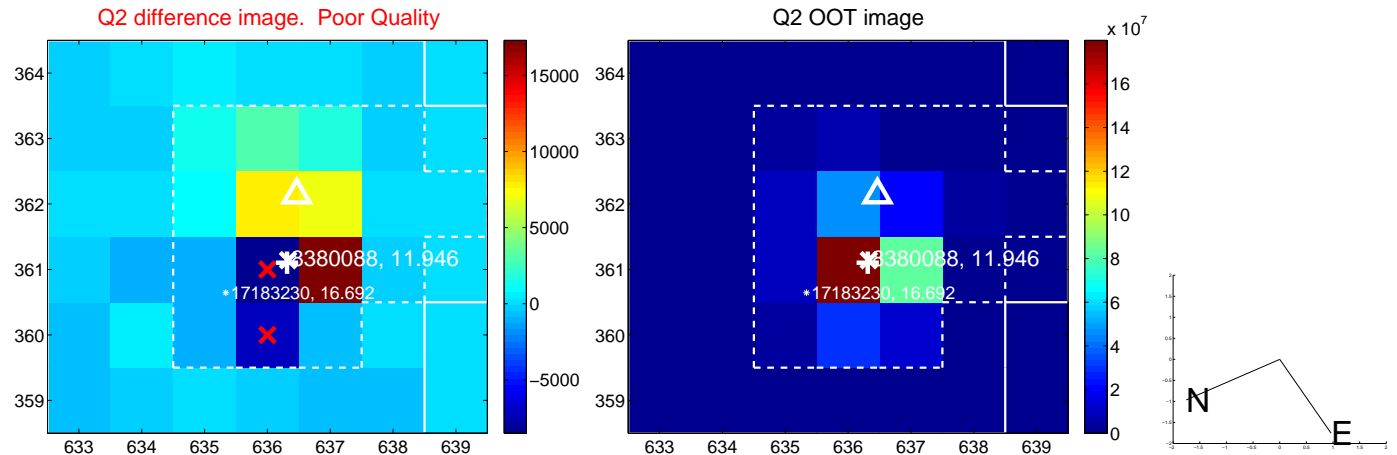
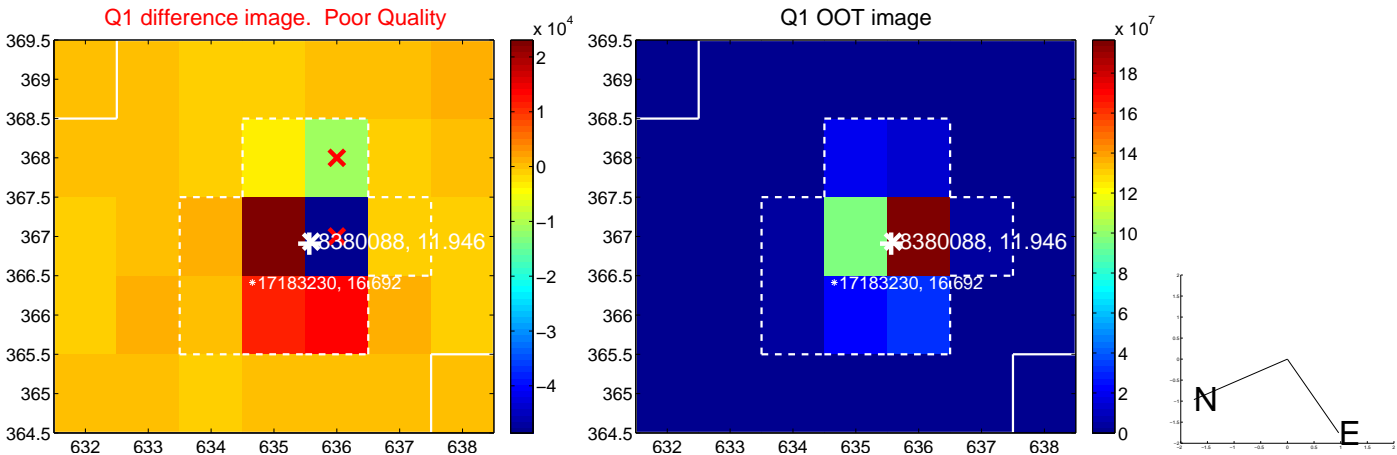


There are no photometric centroids

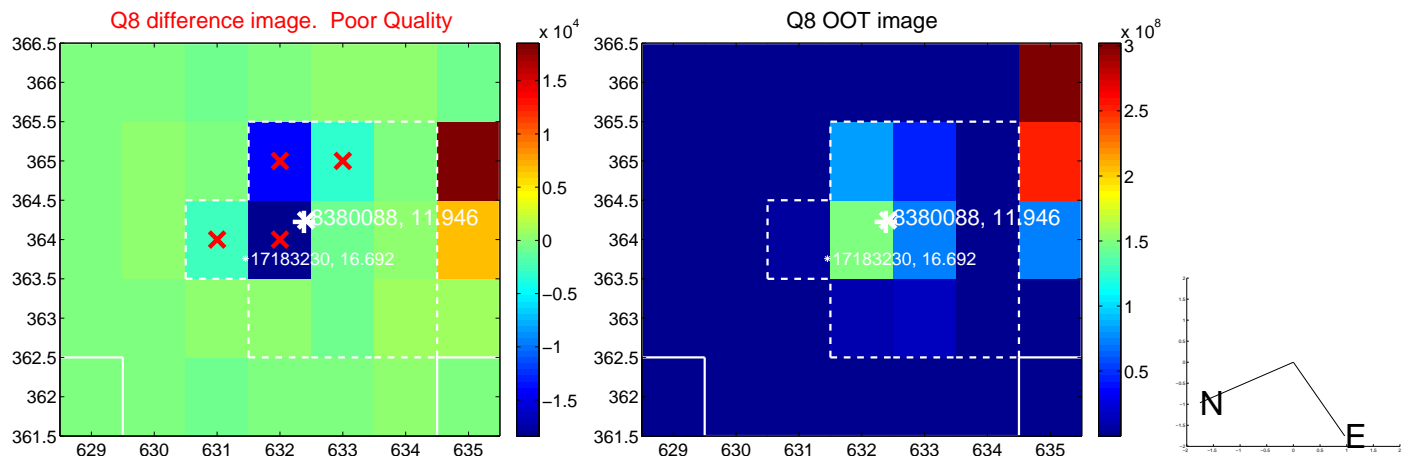
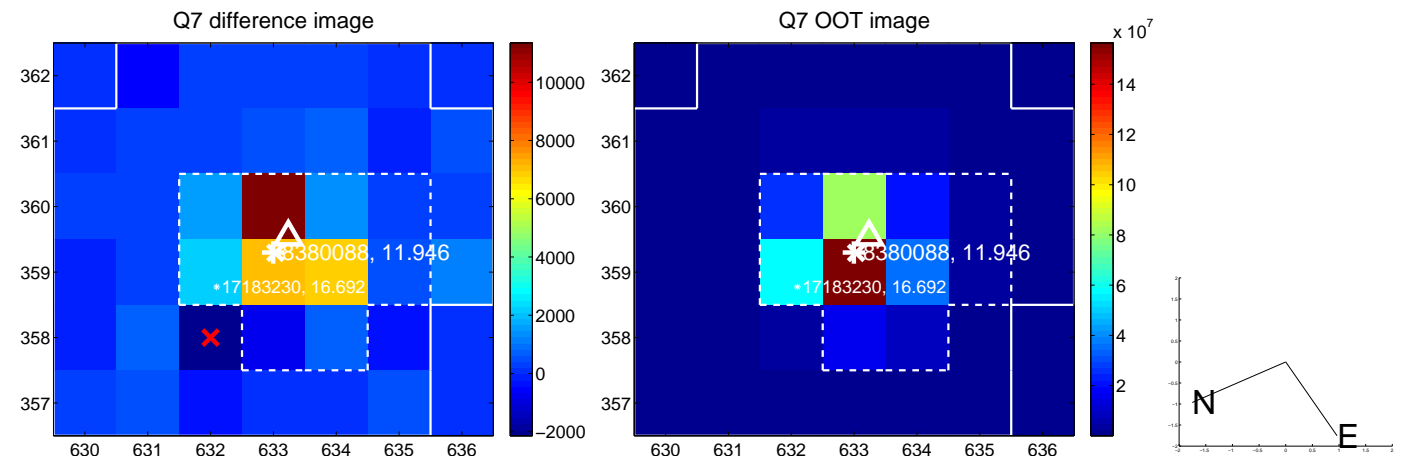
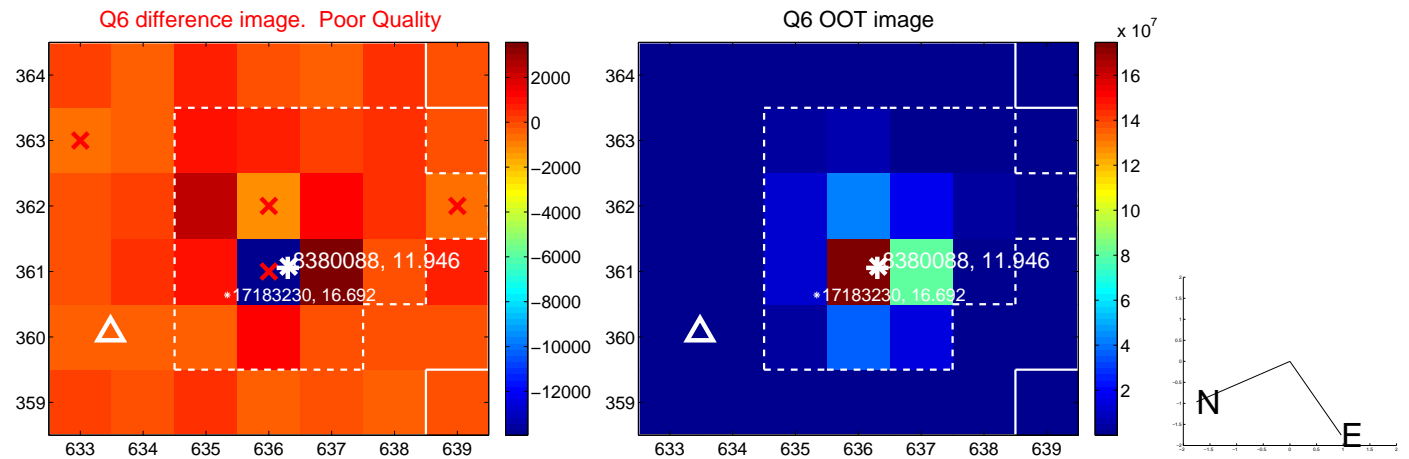
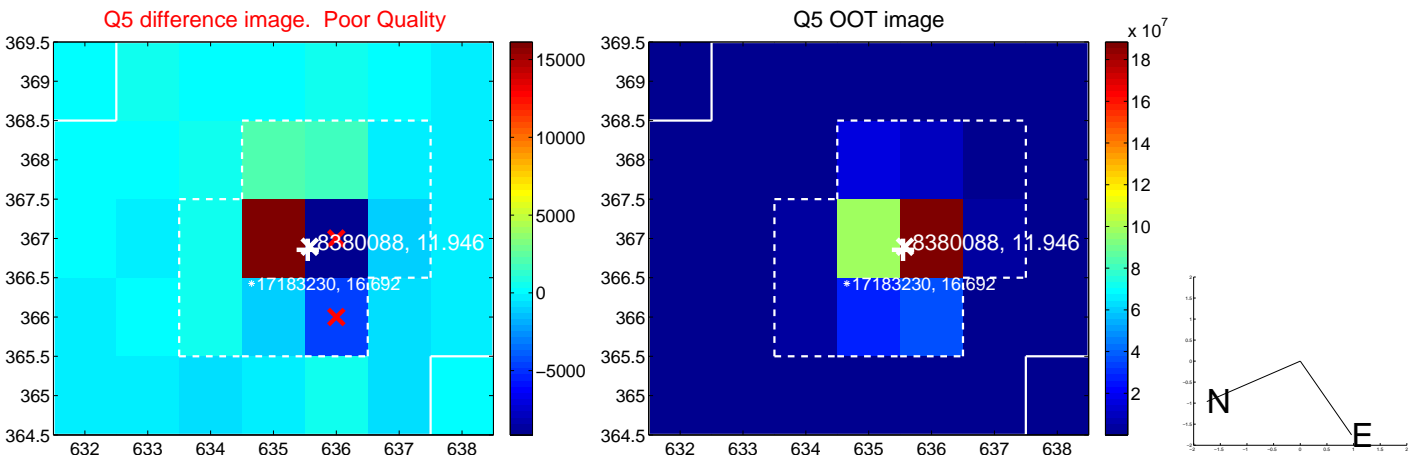


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

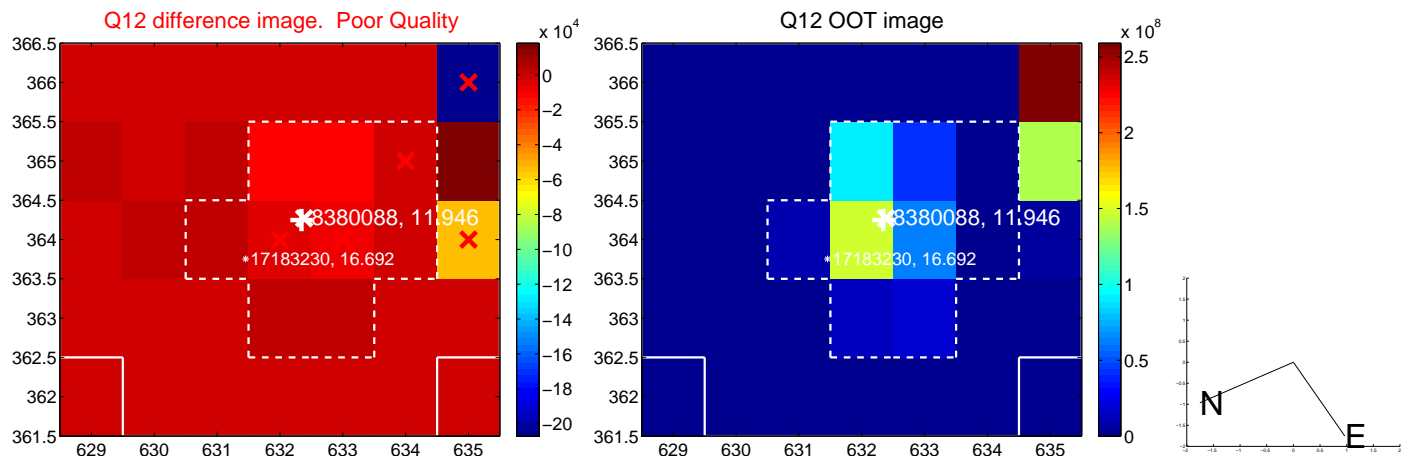
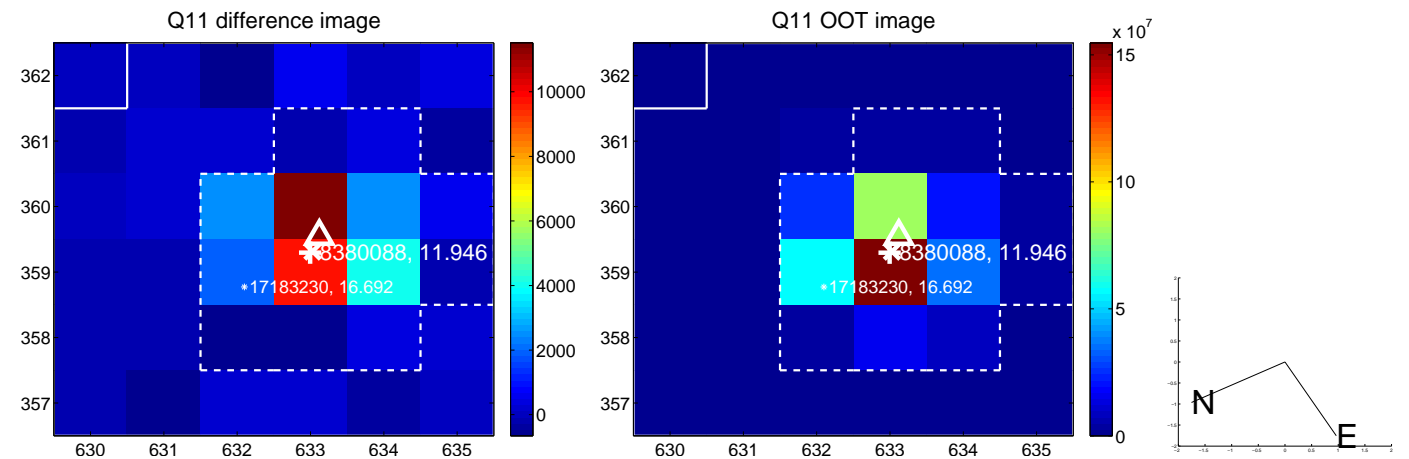
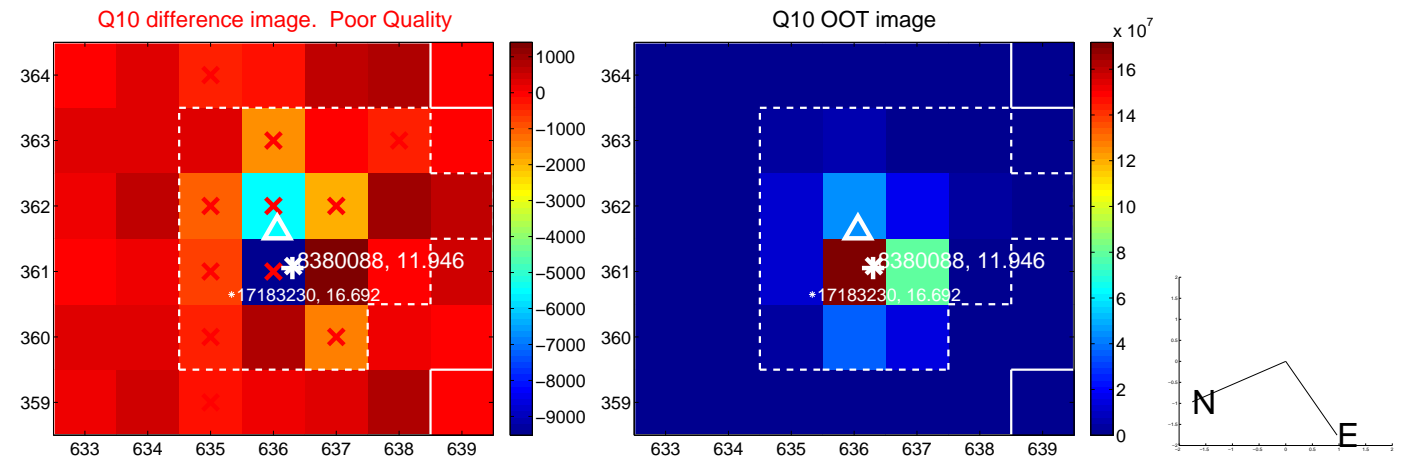
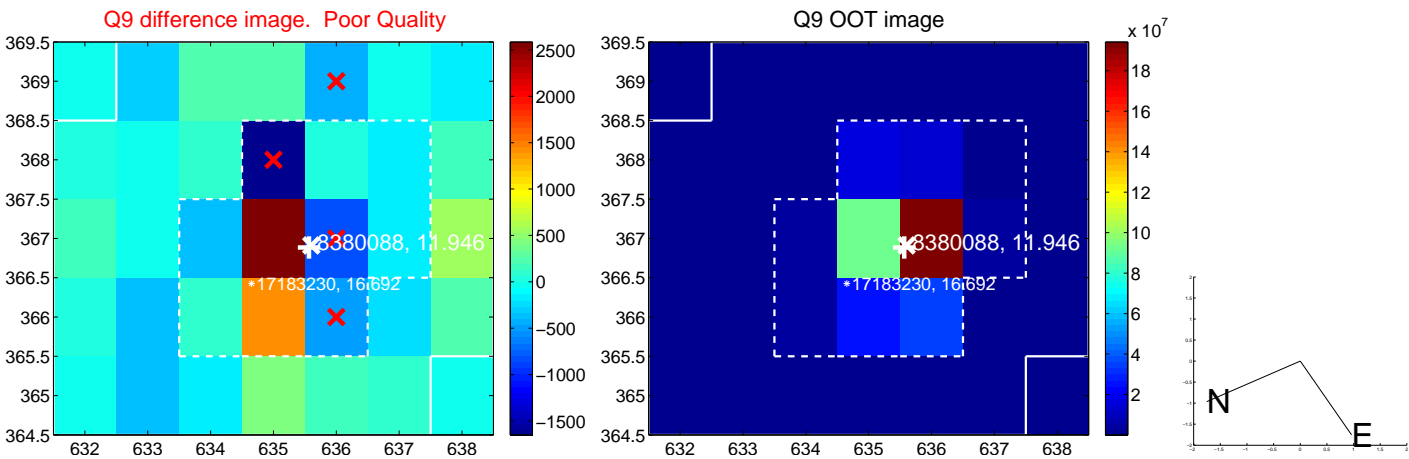
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



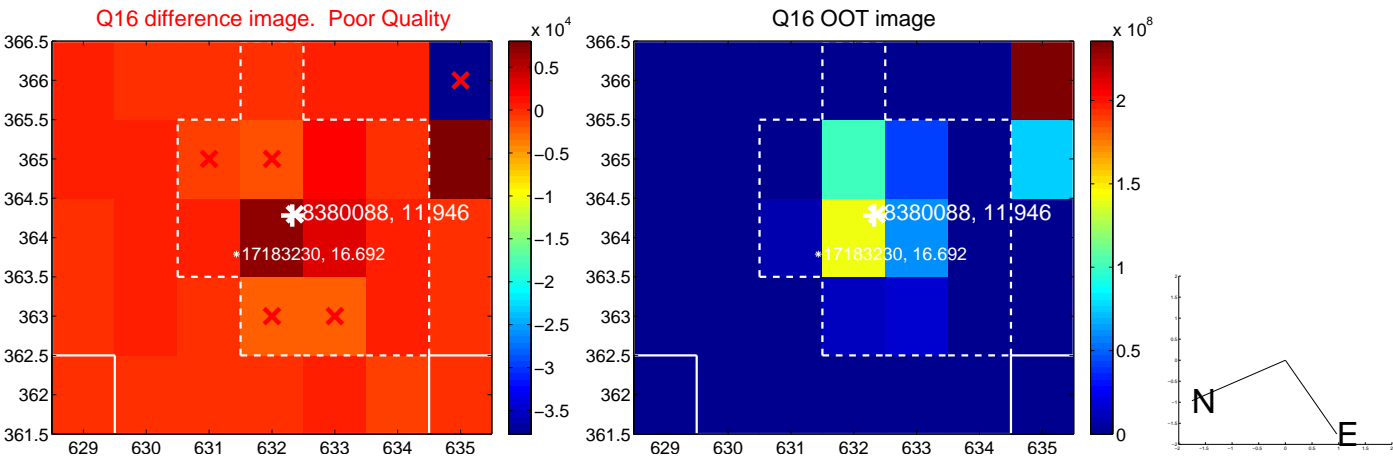
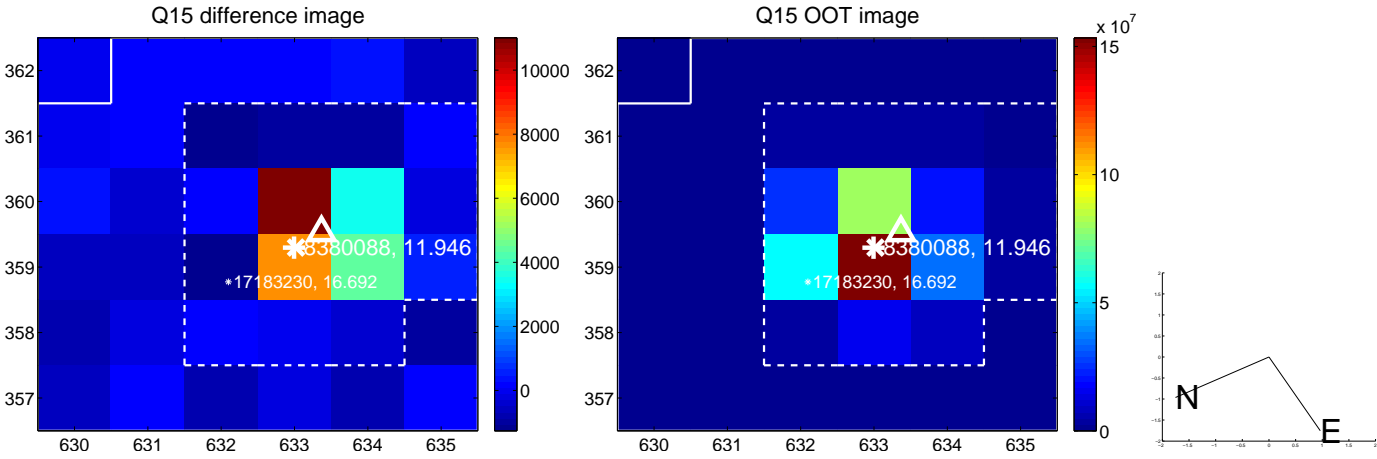
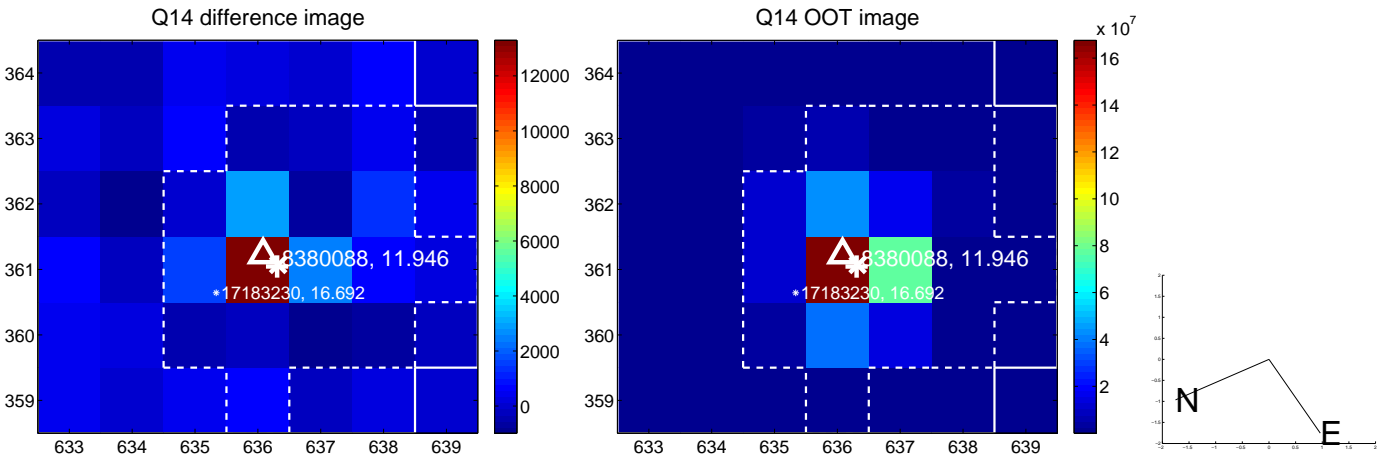
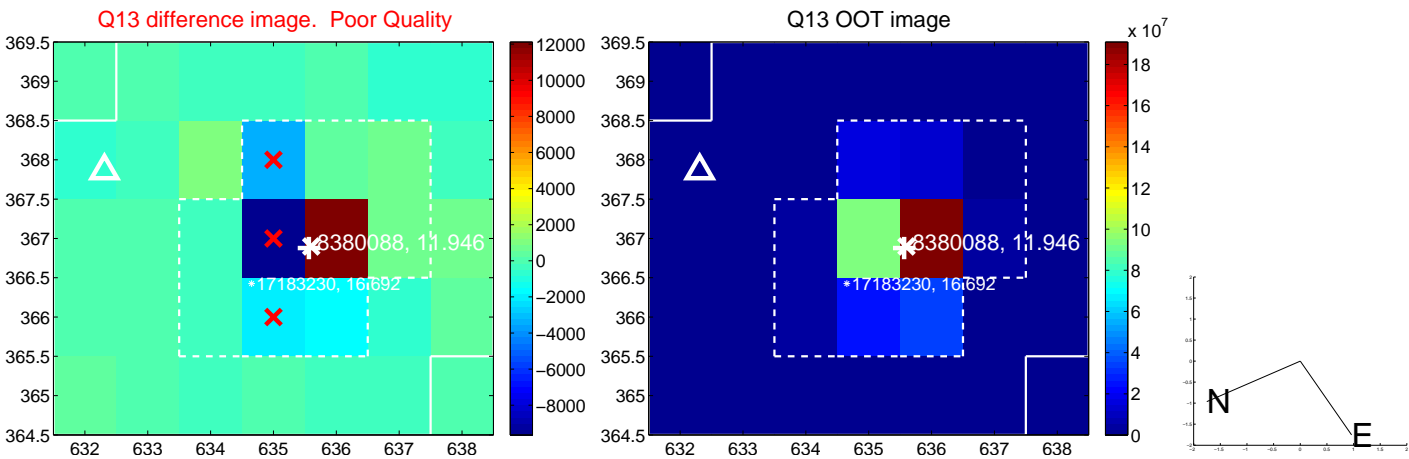
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



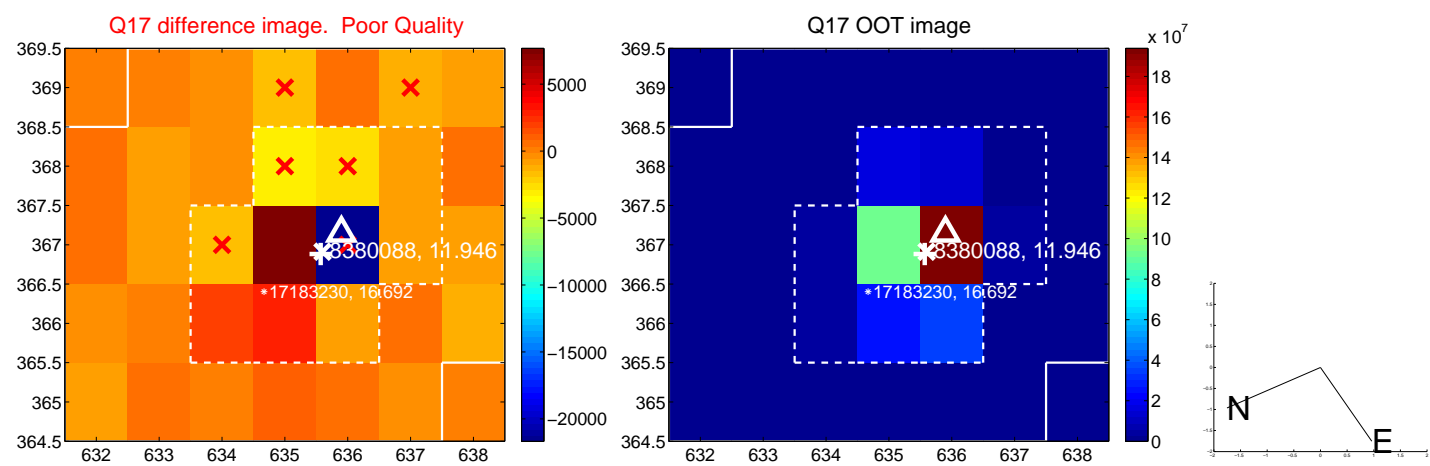
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



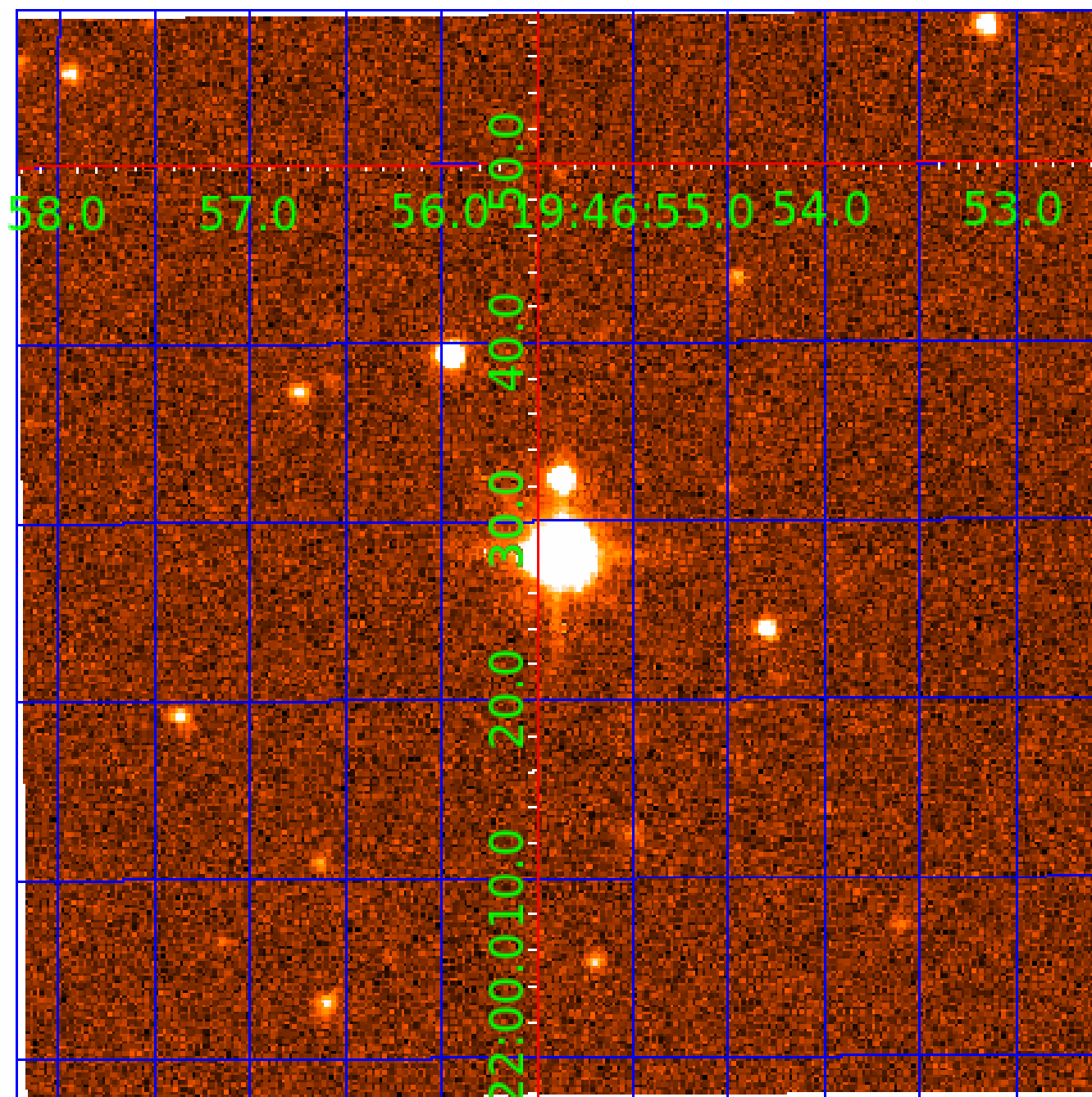
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008380088

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})
008380088-01	OBS	No	0.664840	132.053481	16.8	5.067	10.7	6.4	7.88	6967	3.29	0.00
008380088-02	OBS	No	3.699405	133.023020	213.1	2.607	12.8	17.4	7.88	6967	12.45	29996.38
008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
008380088-06	OBS	No	5.229491	132.991932	425.1	1.320	12.9	18.7	7.88	6967	16.43	18907.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008380088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

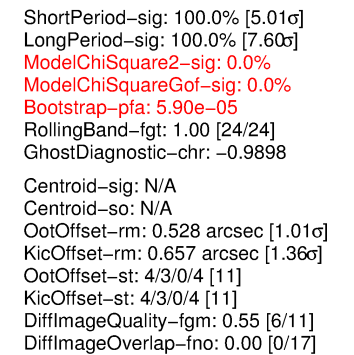
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

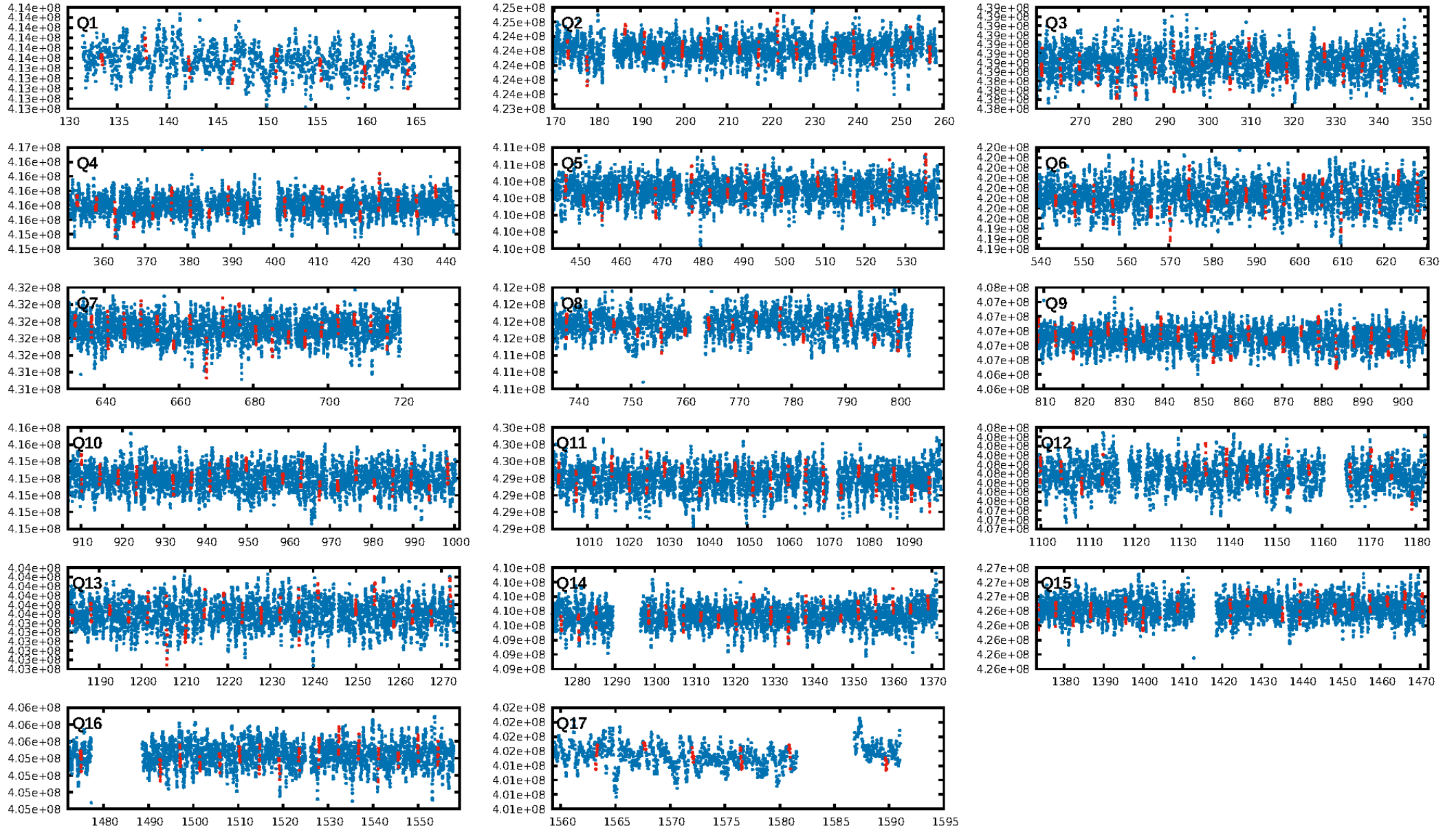
Ephemeris Match Information For 008380088-05

No Significant Match Found

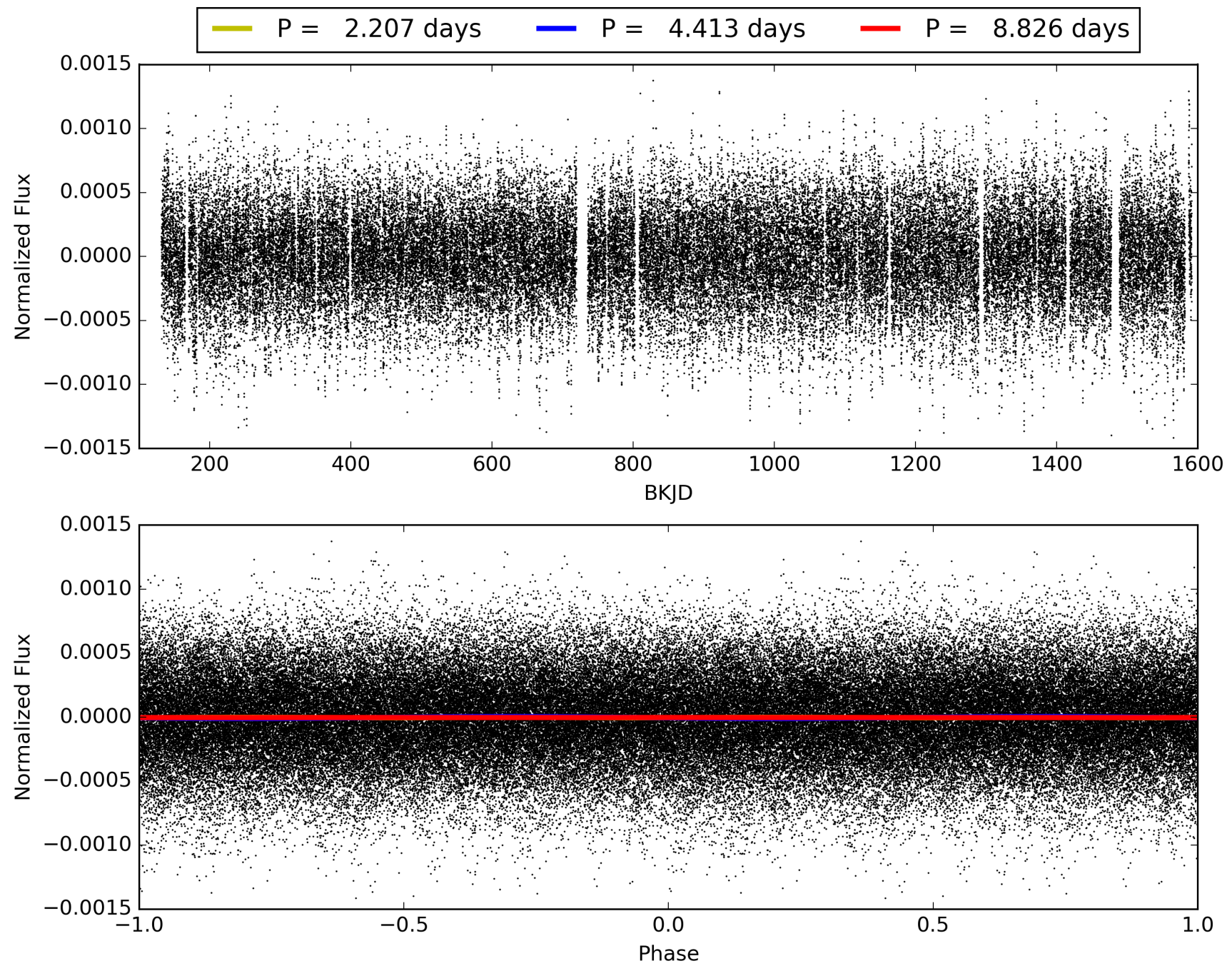
KIC: 8380088 Candidate: 5 of 7 Period: 4.413 d



TCE 008380088-05, PDC Light Curves

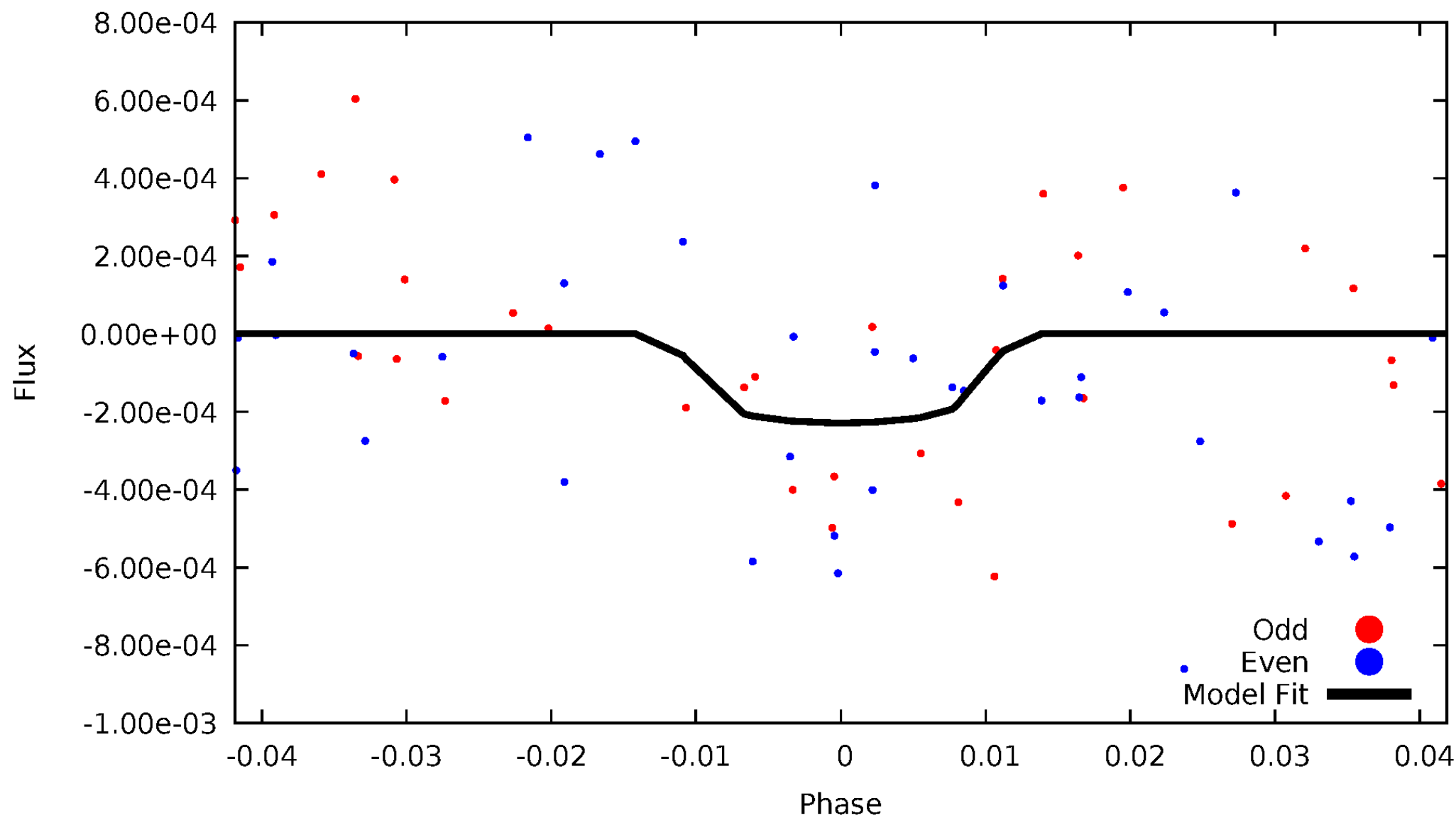


TCE 008380088-05



DV Odd/Even

TCE 008380088-05

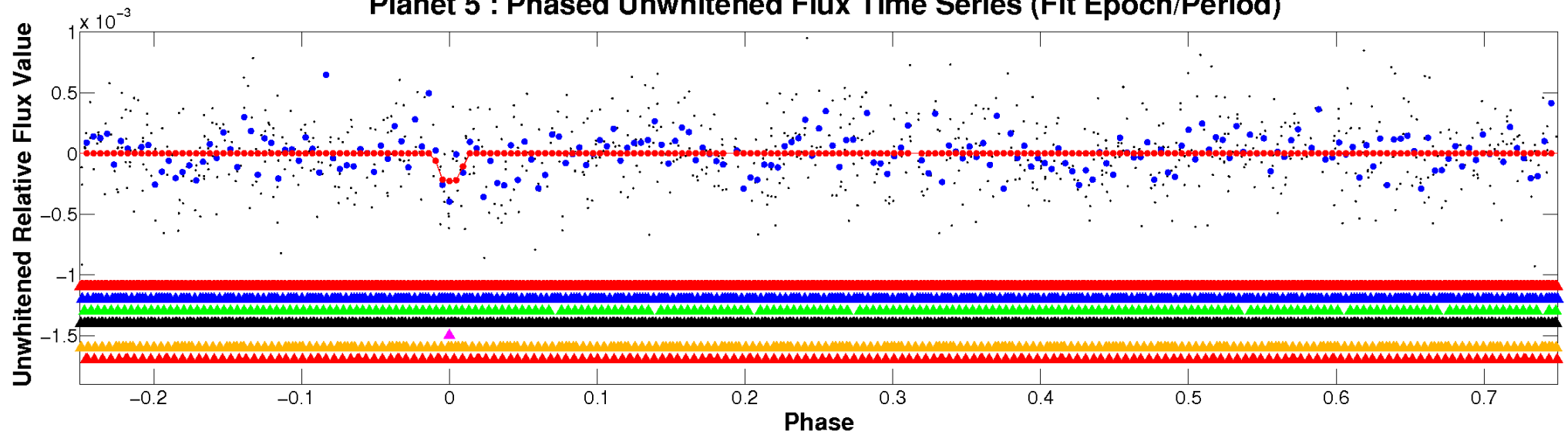


ALT Odd/Even

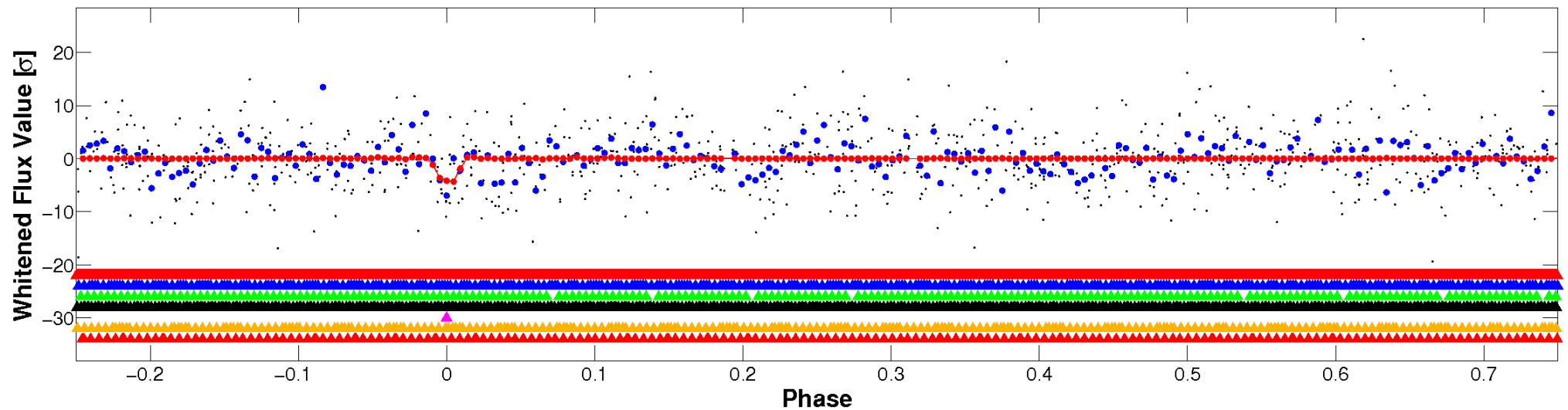
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

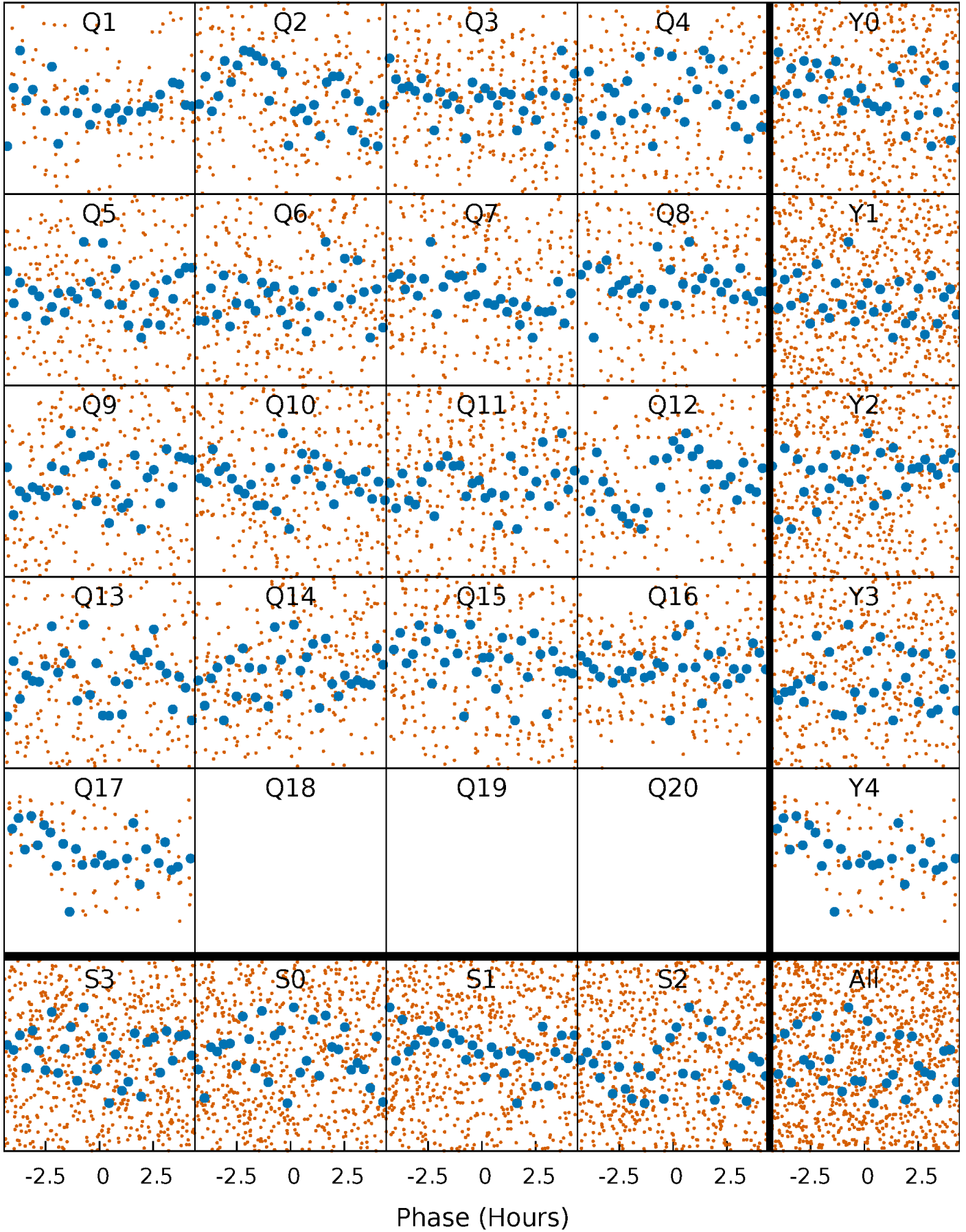


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



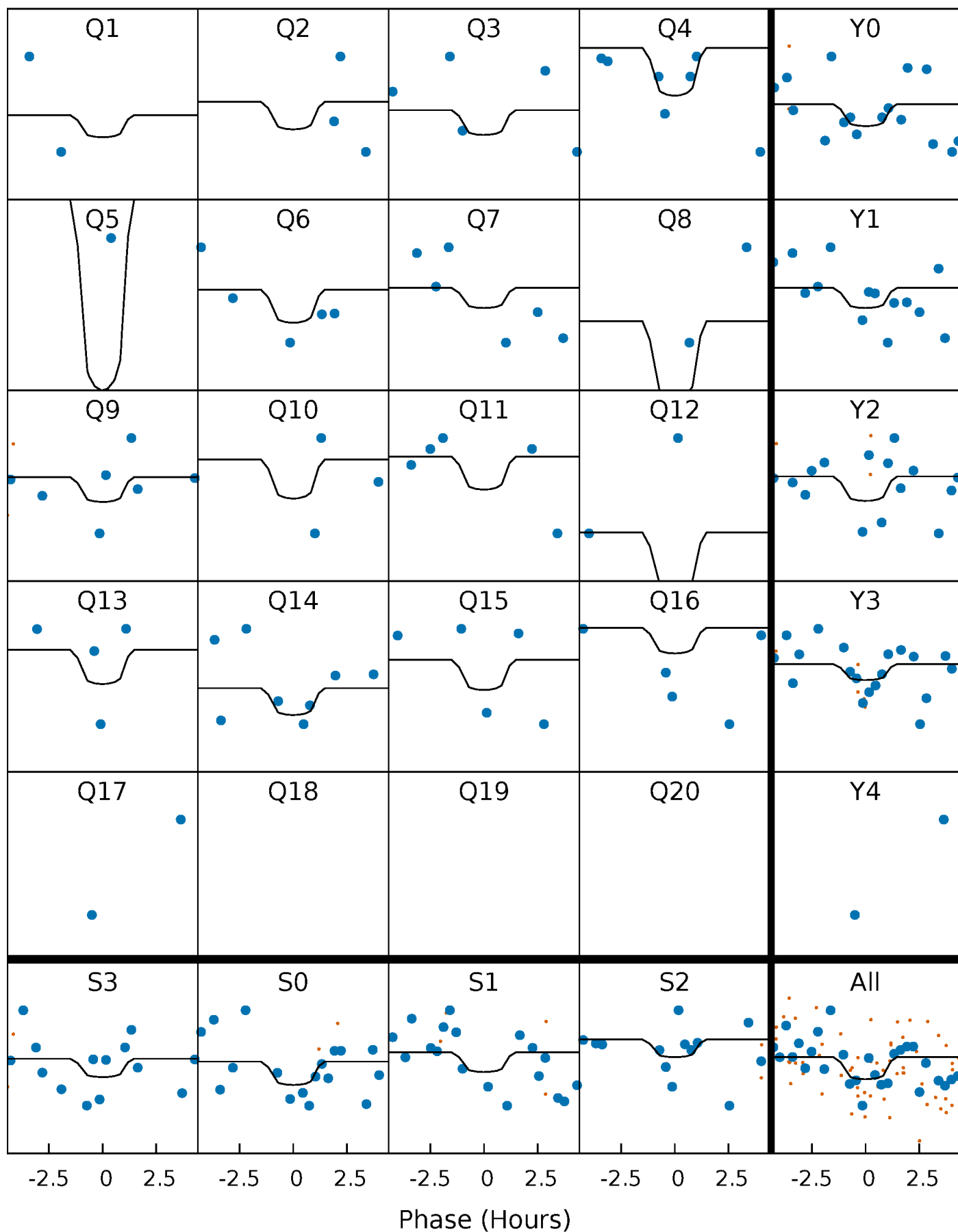
PDC Quarter-Phased Transit Curves

TCE 008380088-05 $P = 4.413036$ Days $T_0 = 133.438550$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008380088-05 $P = 4.413036$ Days $T_0 = 133.438550$ (BKJD)

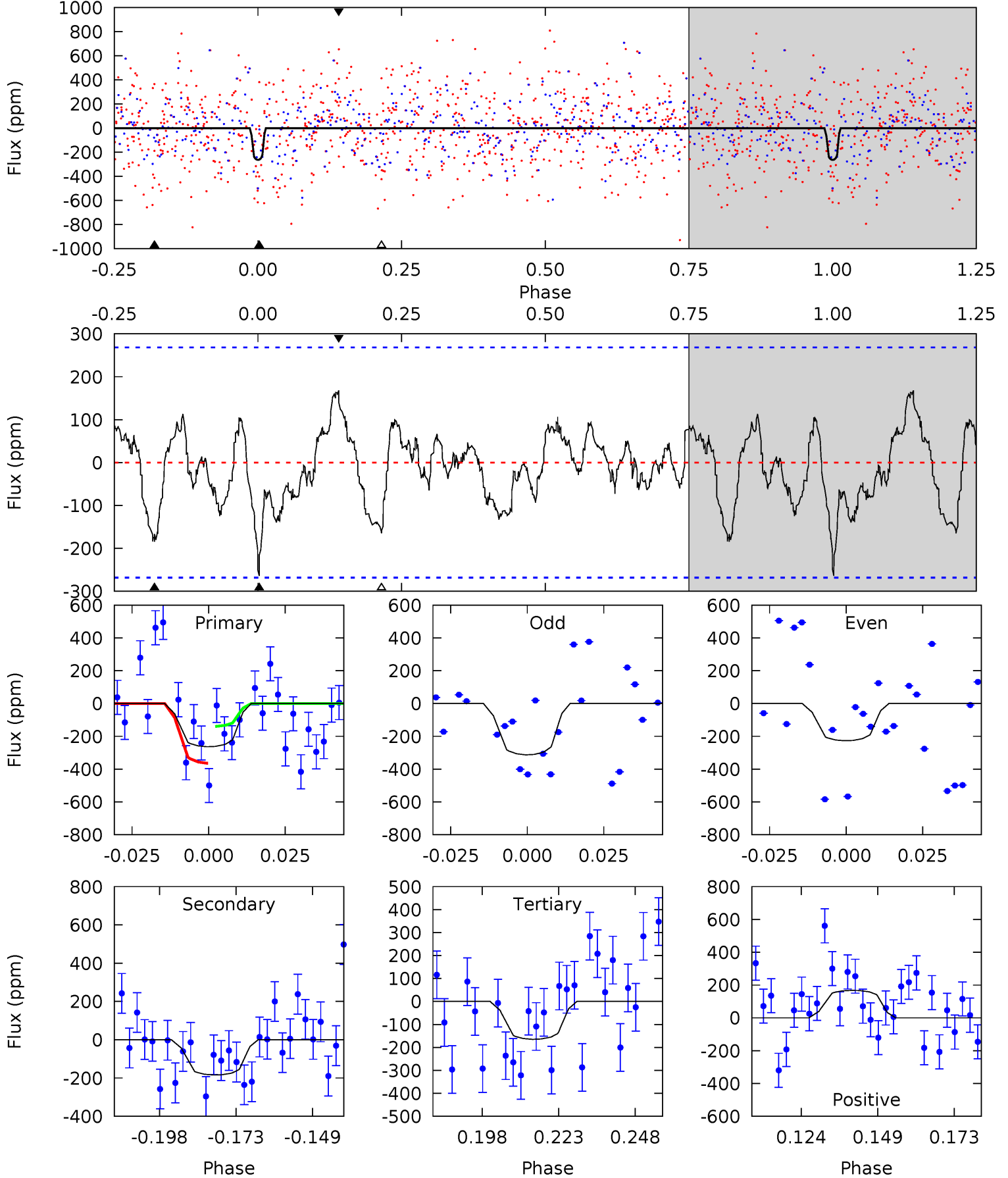


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008380088-05, P = 4.413036 Days, E = 129.025514 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.77	3.33	2.98	3.03	4.85	2.24	1.17	1.79	1.74	0.35	0.30	0.79	0	0.39	2.07



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-184 ± 55	$38.12^{+42.13}_{-27.79}$	4258^{+316}_{-616}	2910^{+3435}_{-6594}	$0.363^{+4.183}_{-0.284}$
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 $A_{\text{obs}} \gg 1.0$

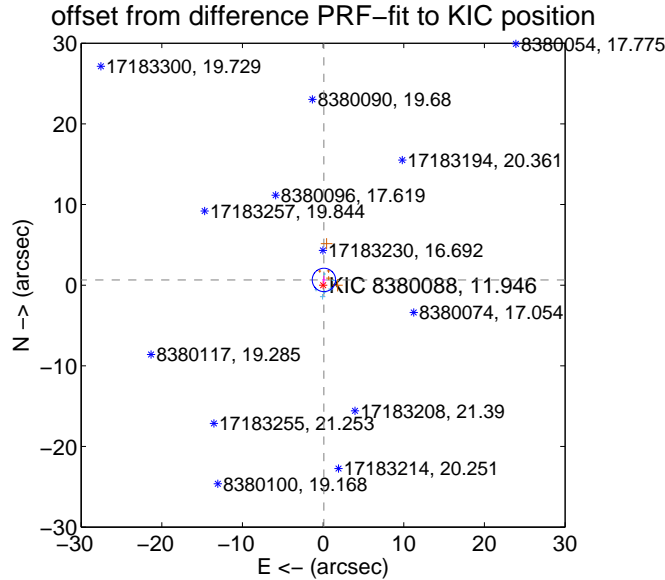
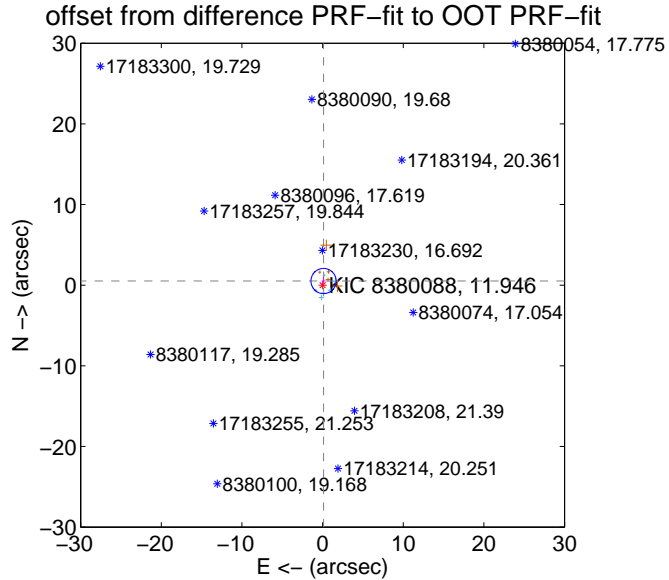
DV Centroid Data

Supplemental centroid analysis for 008380088-05. **Kepler magnitude: 11.95.** Transit SNR 16.85

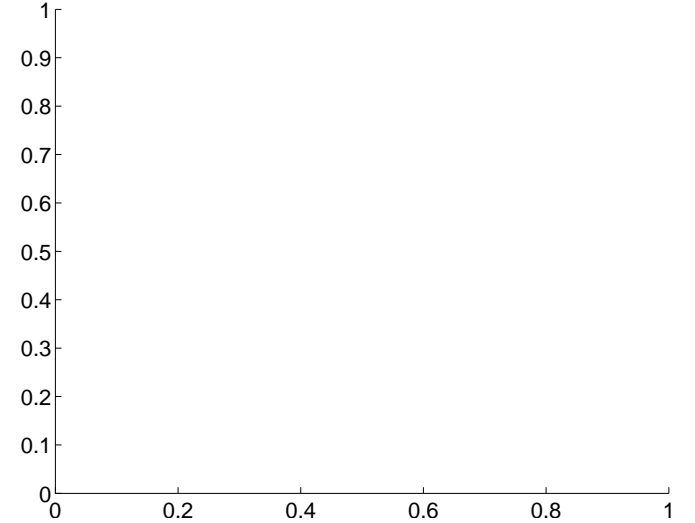
There are 6 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.528 ± 0.520	1.01	-0.120 ± 0.225	0.514 ± 0.528
PRF-fit source offset from KIC position	0.657 ± 0.483	1.36	-0.099 ± 0.232	0.650 ± 0.486
photometric centroid source offset	—	—	—	—

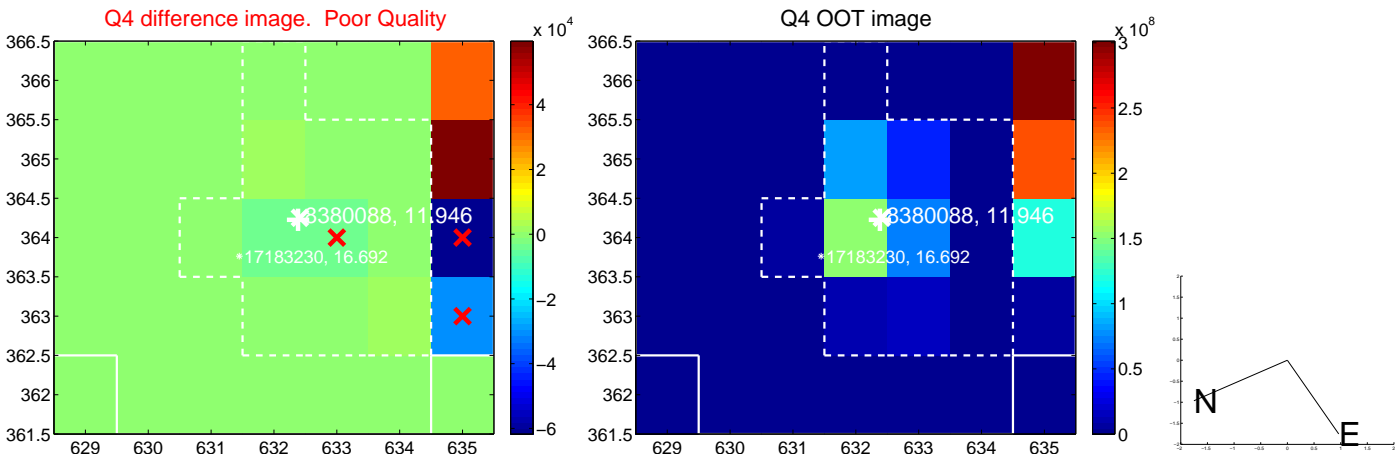
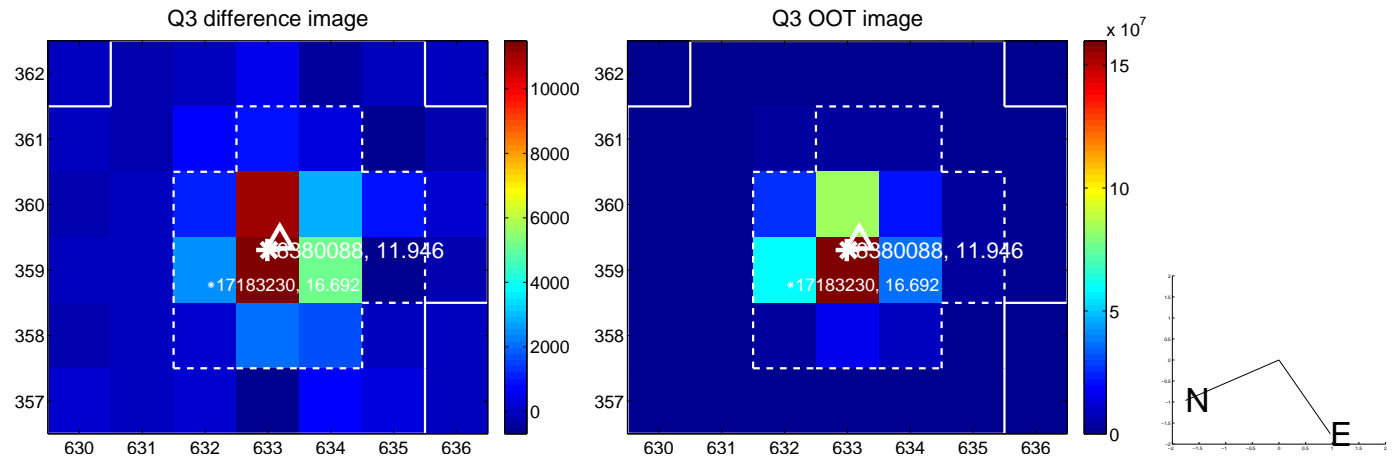
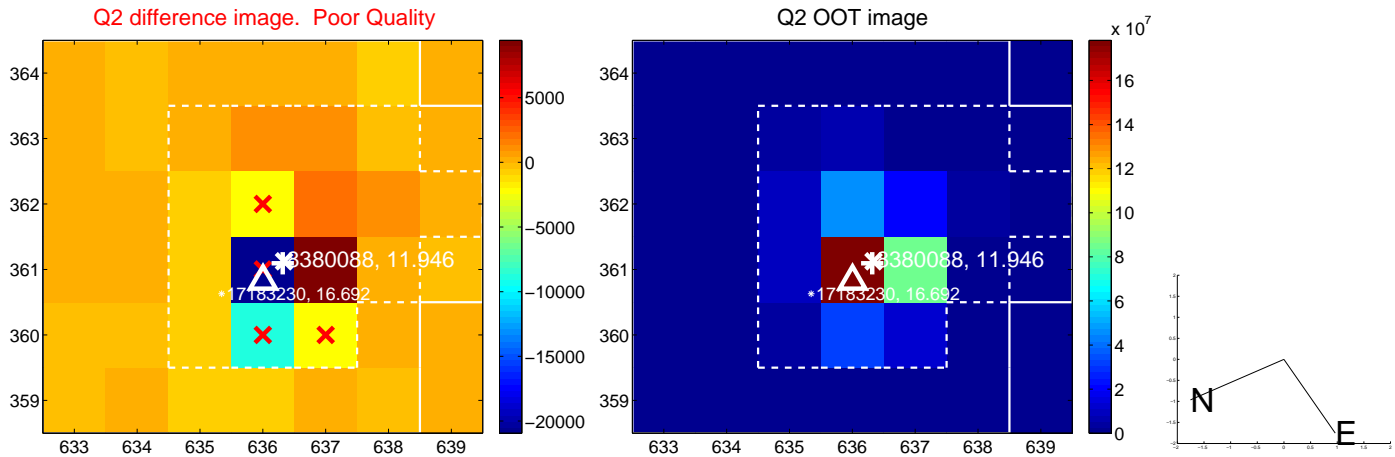
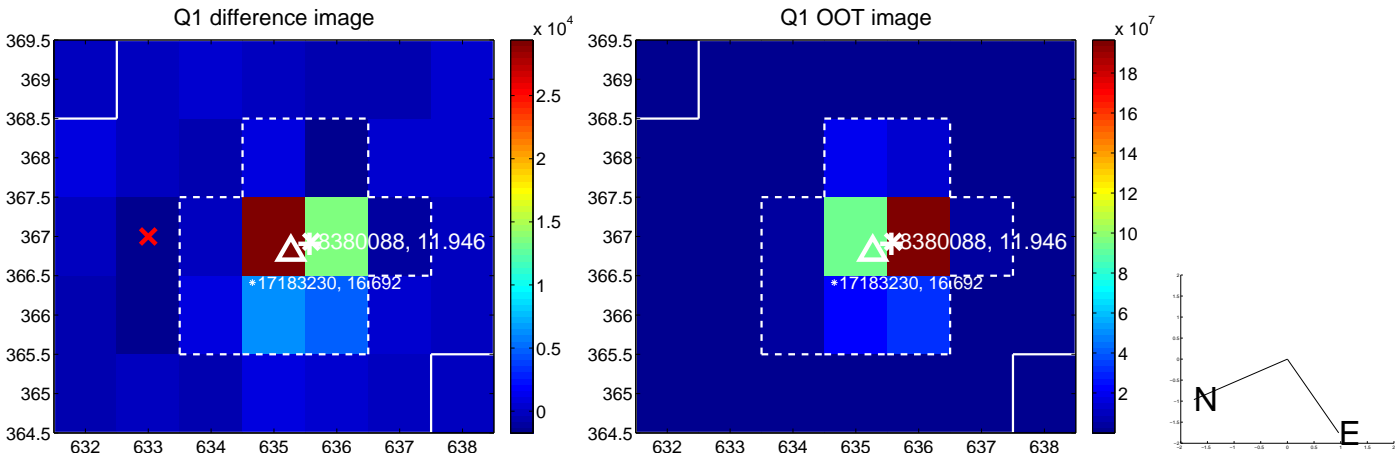


There are no photometric centroids

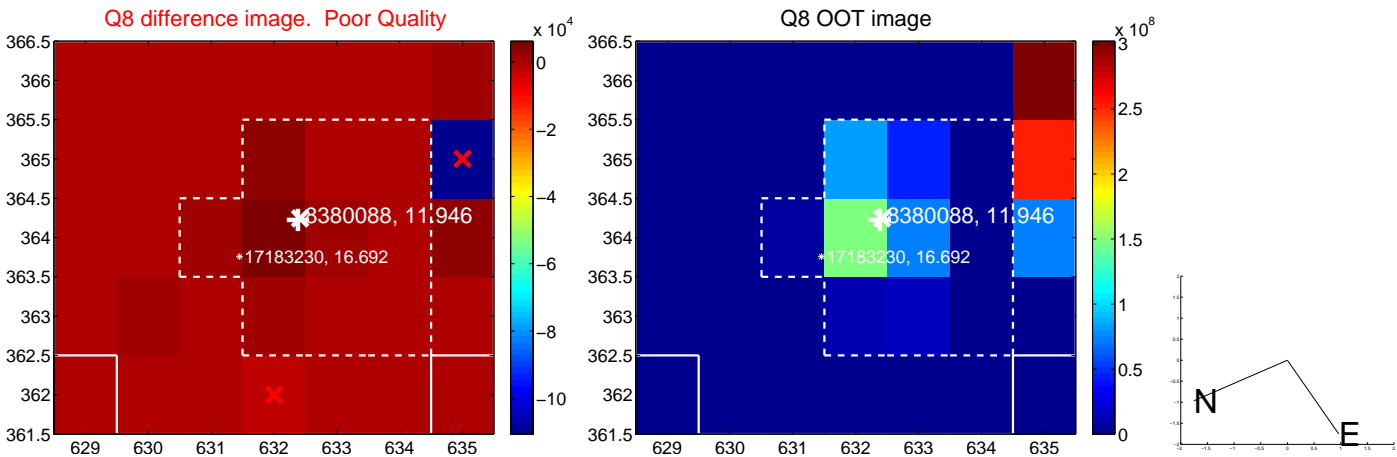
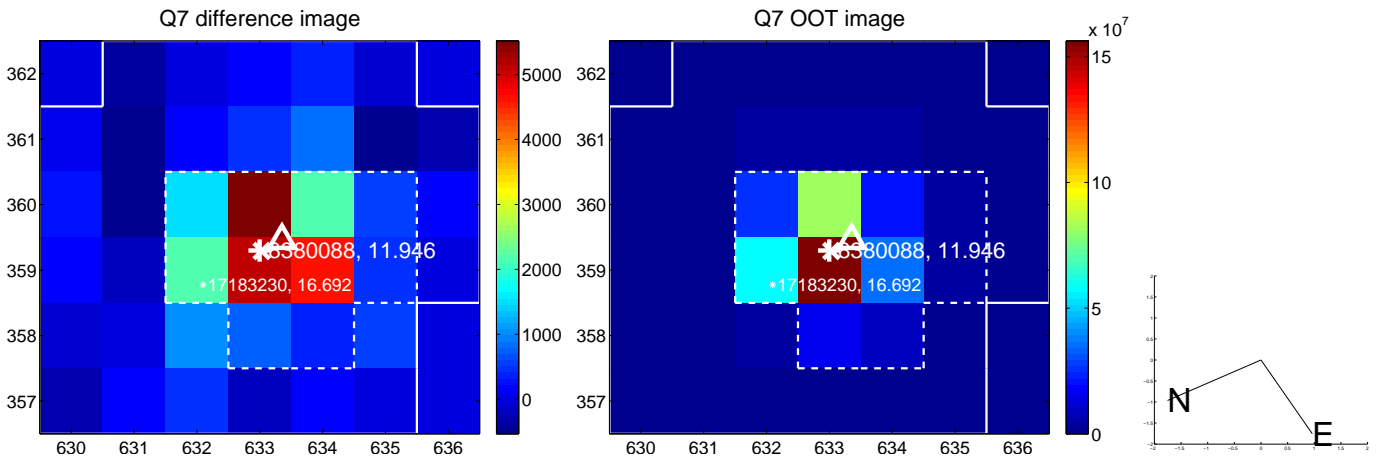
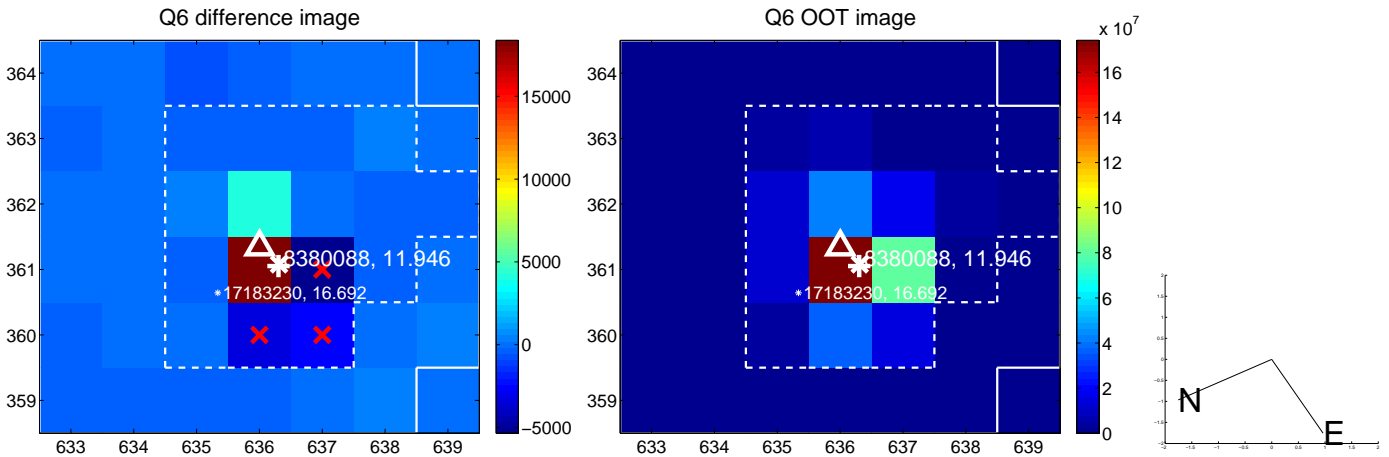
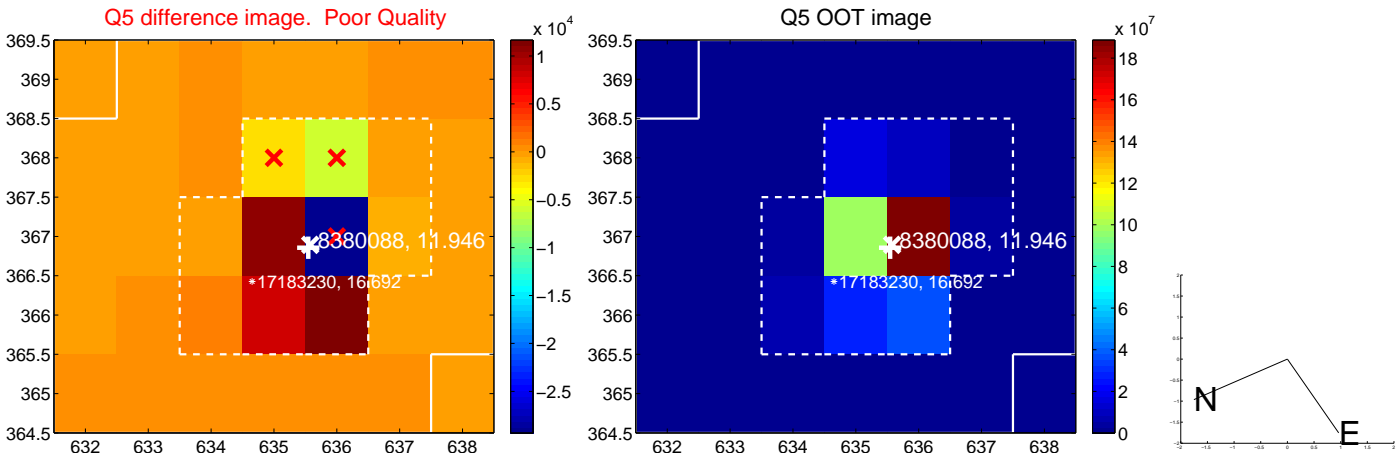


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

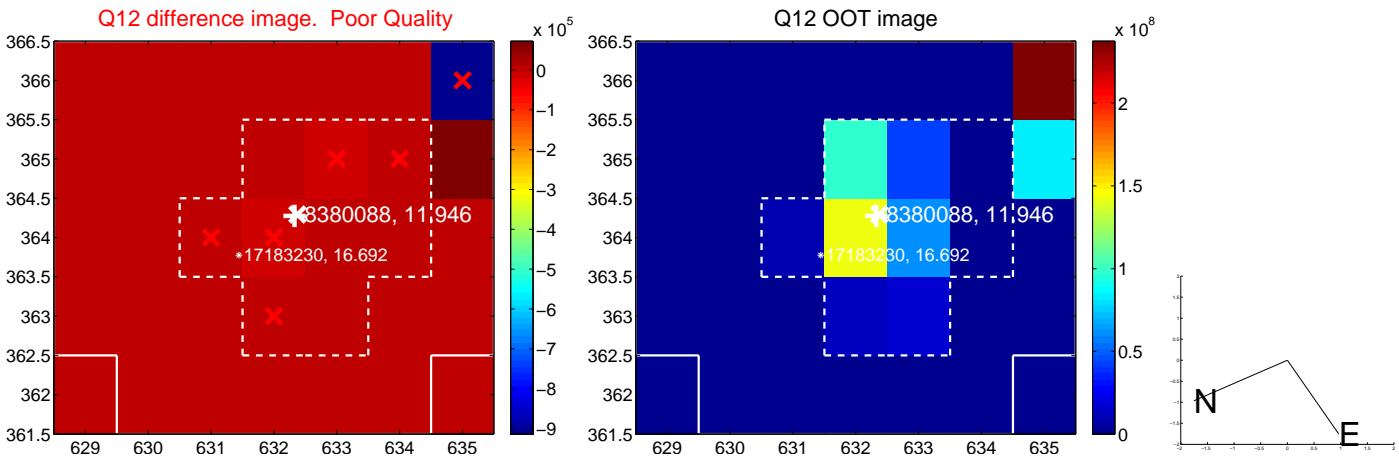
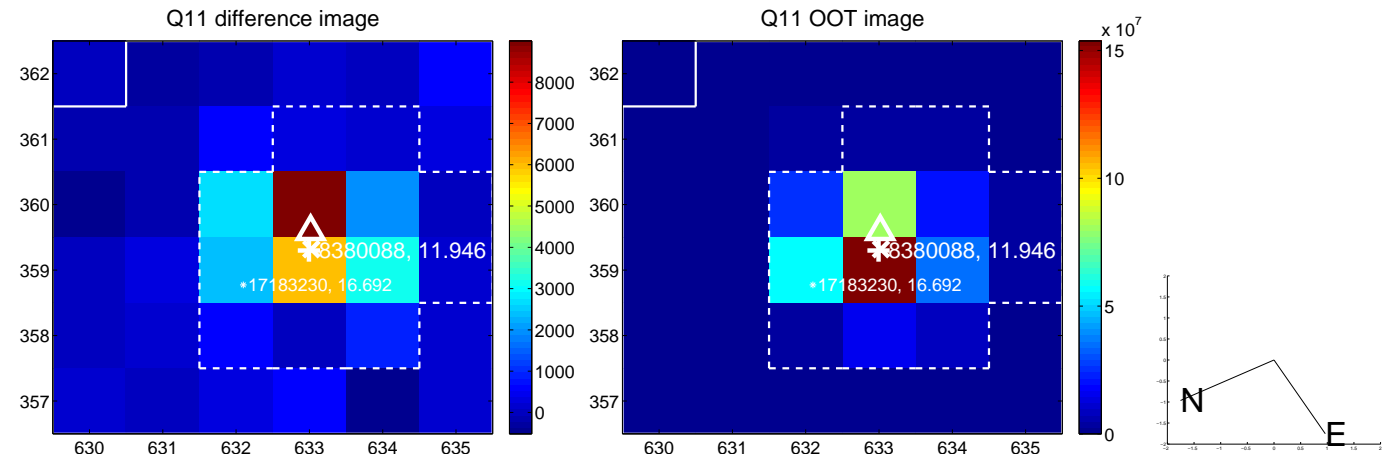
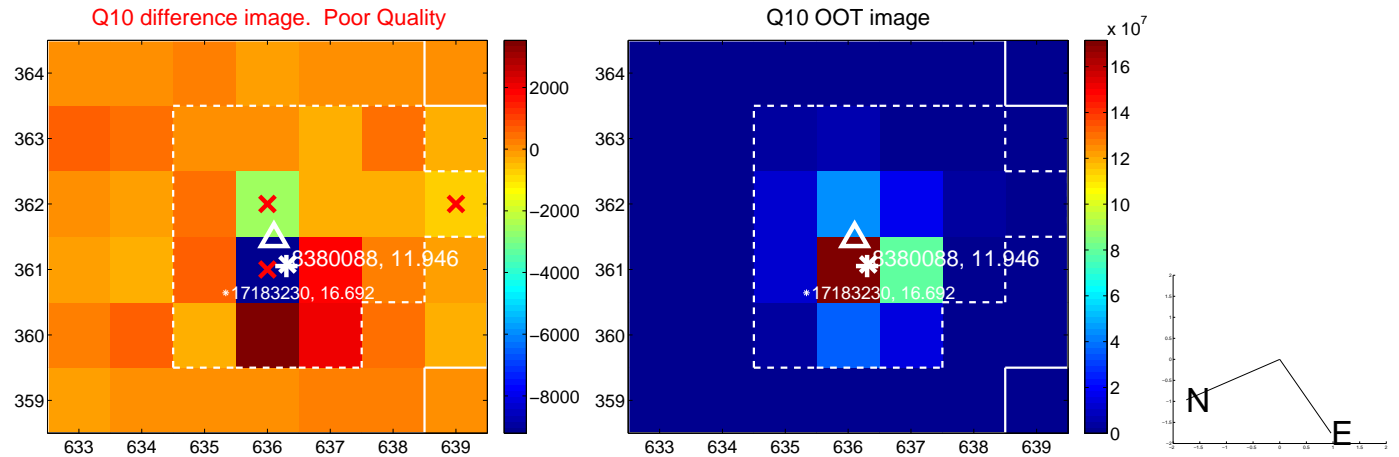
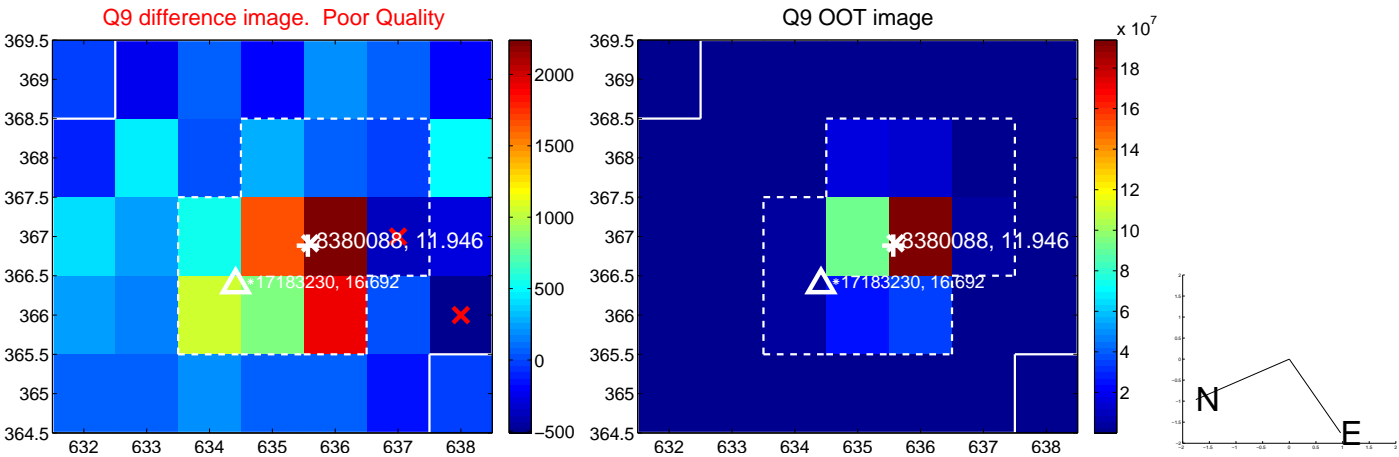
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



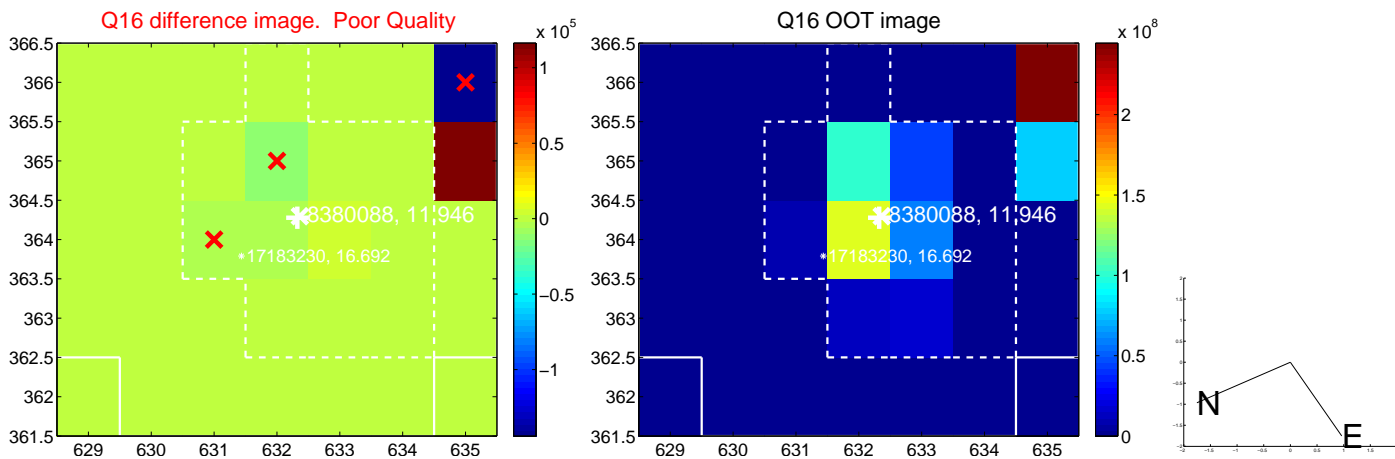
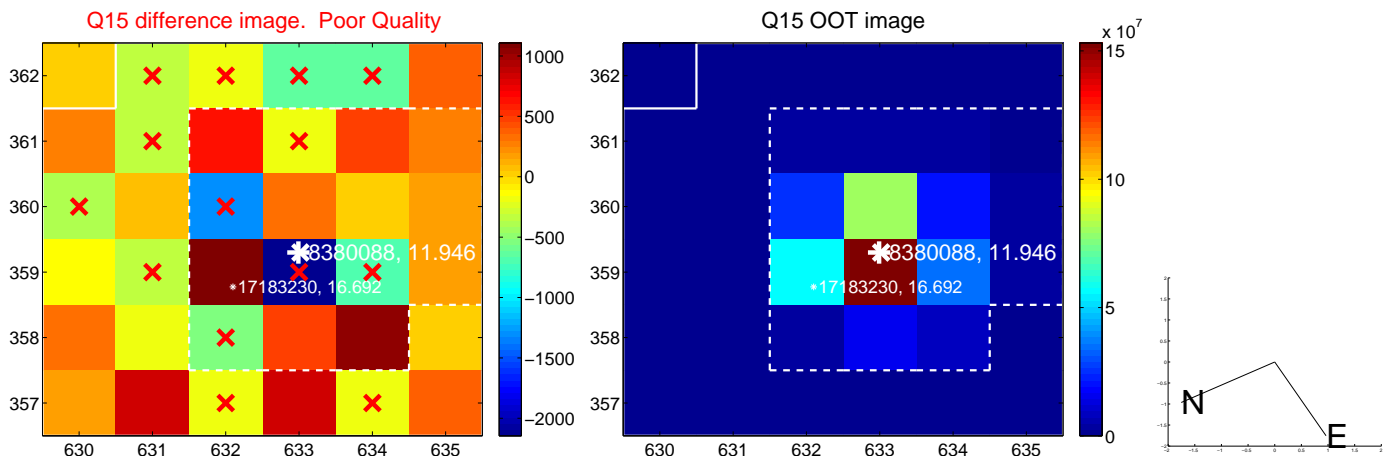
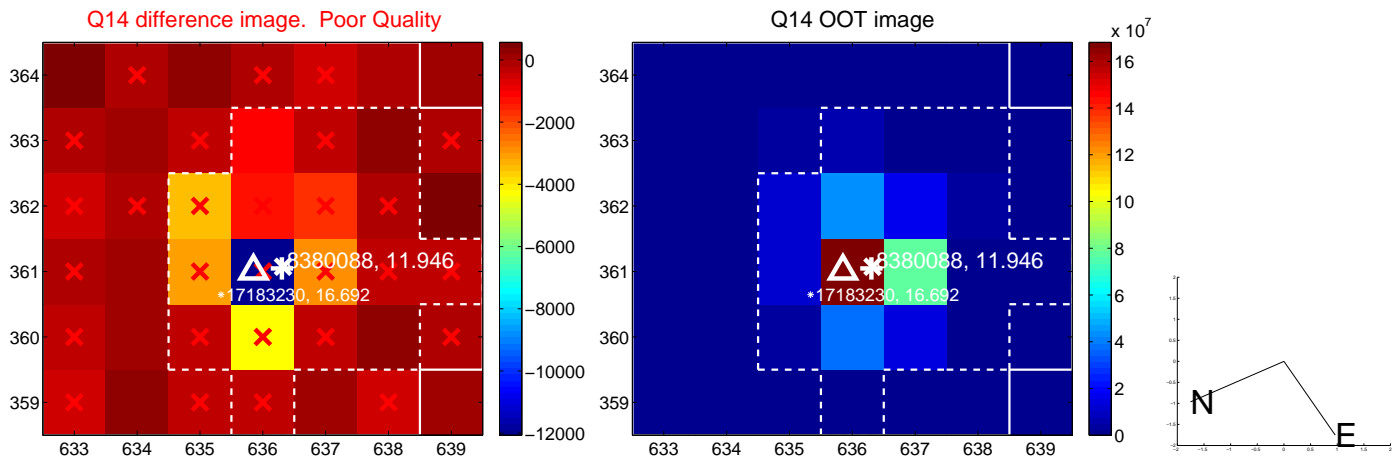
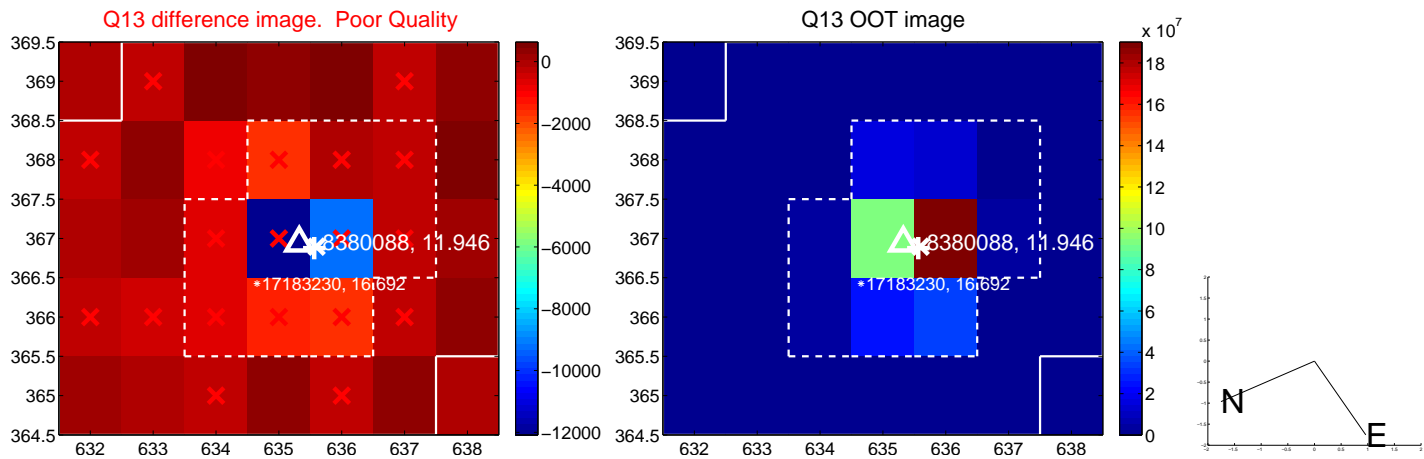
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



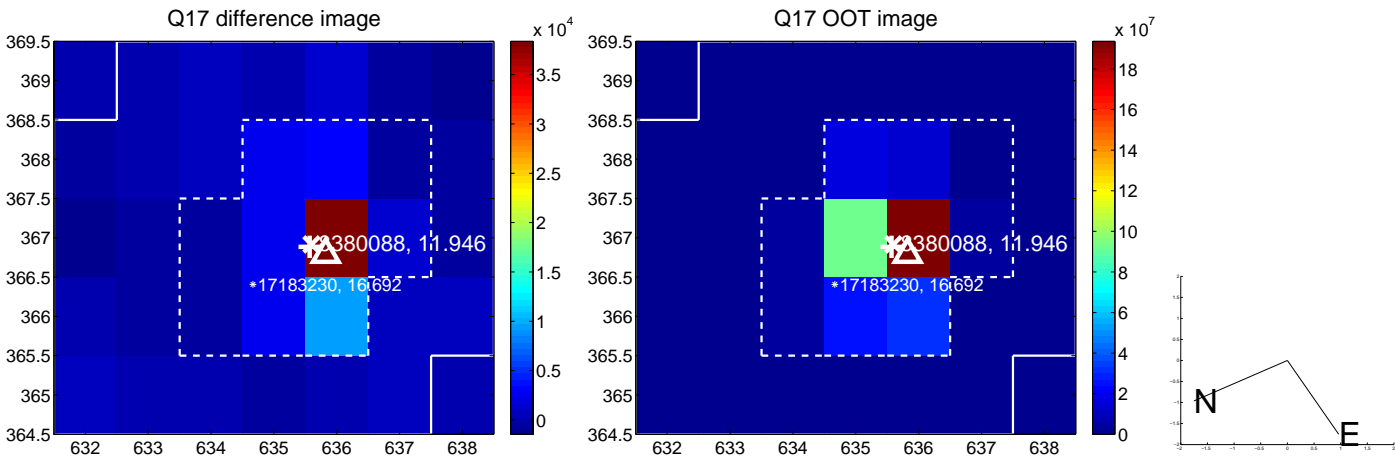
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



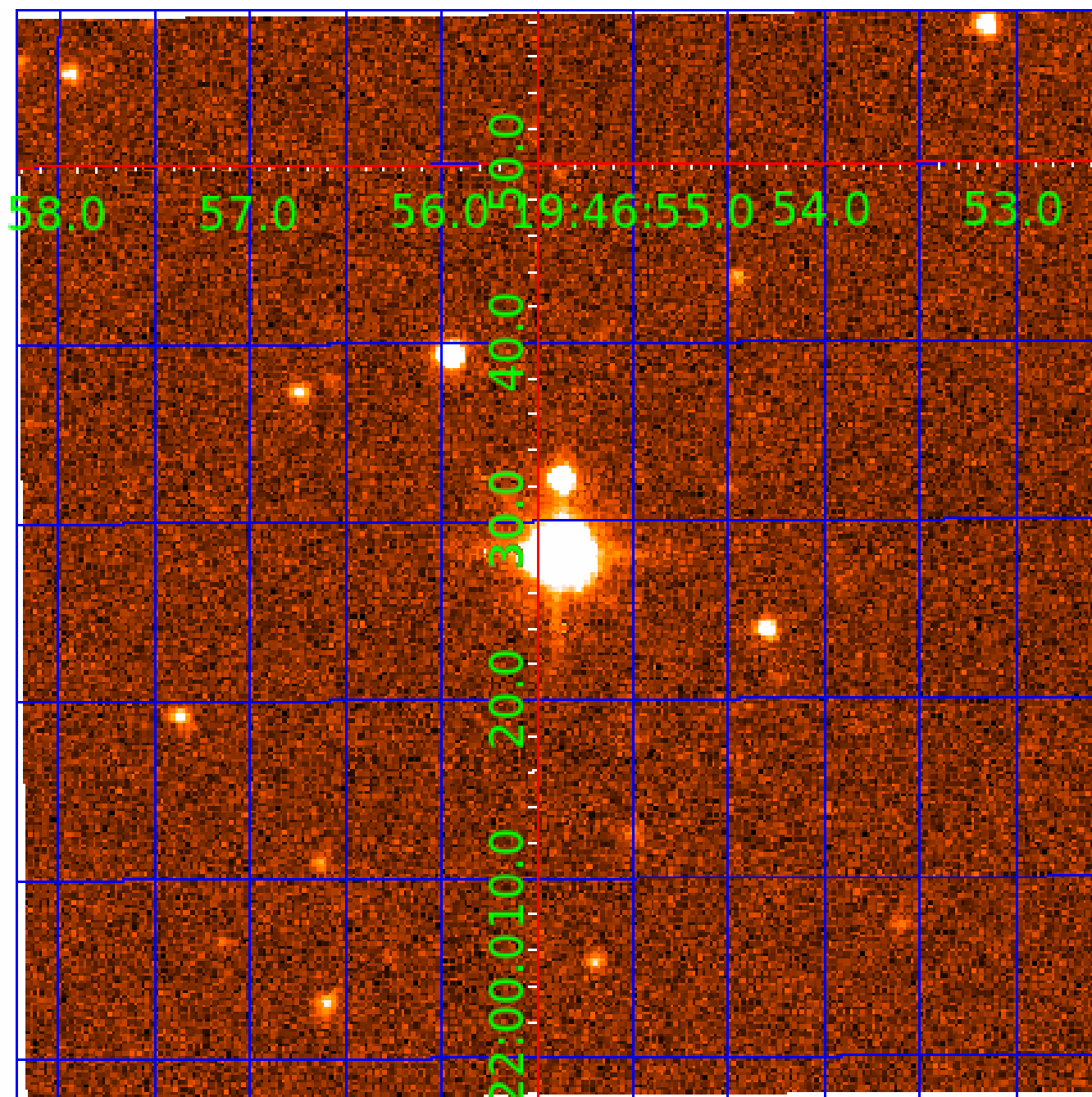
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008380088

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})
008380088-01	OBS	No	0.664840	132.053481	16.8	5.067	10.7	6.4	7.88	6967	3.29	0.00
008380088-02	OBS	No	3.699405	133.023020	213.1	2.607	12.8	17.4	7.88	6967	12.45	29996.38
008380088-03	OBS	No	6.767984	136.999157	383.5	0.887	14.8	16.9	7.88	6967	15.97	13405.99
008380088-04	OBS	No	2.580408	131.961796	65.8	0.891	10.4	3.3	7.88	6967	7.50	48490.90
008380088-05	OBS	No	4.413036	133.438550	229.0	2.216	15.1	16.8	7.88	6967	12.79	23709.81
008380088-06	OBS	No	5.229491	132.991932	425.1	1.320	12.9	18.7	7.88	6967	16.43	18907.41

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008380088-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
008380088-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV
008380088-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
008380088-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST

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

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

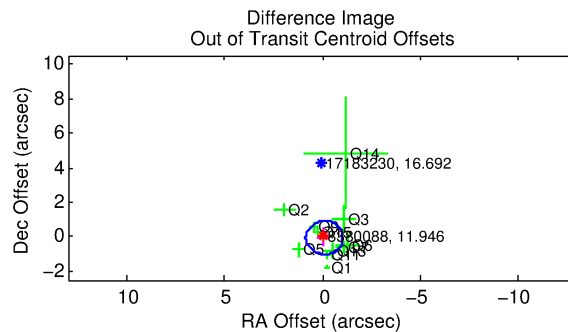
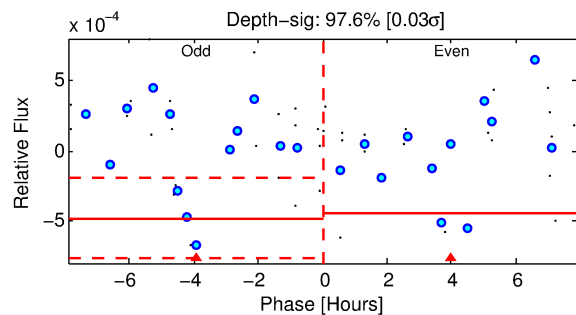
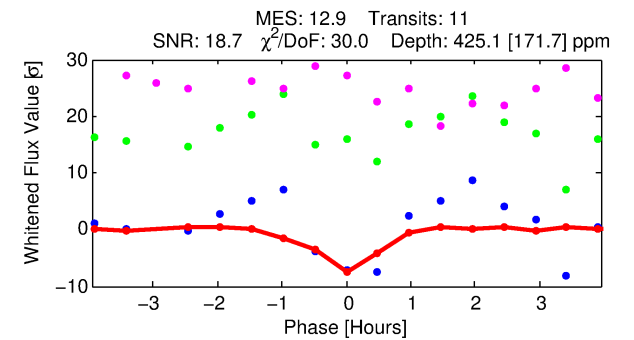
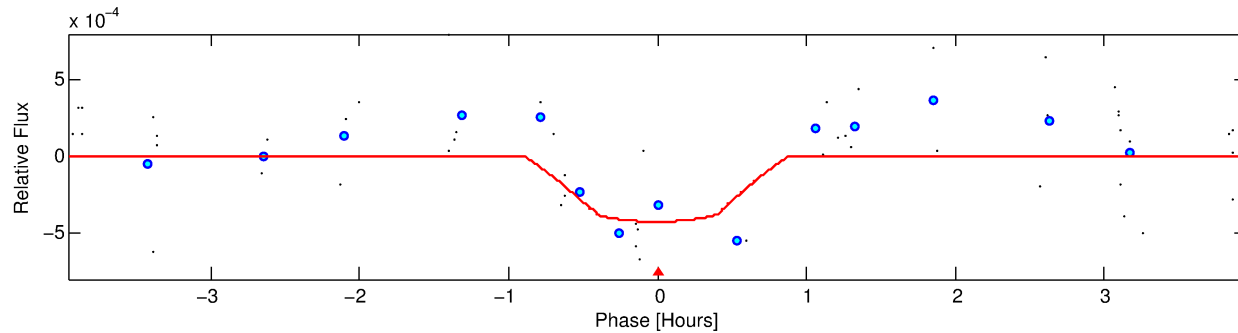
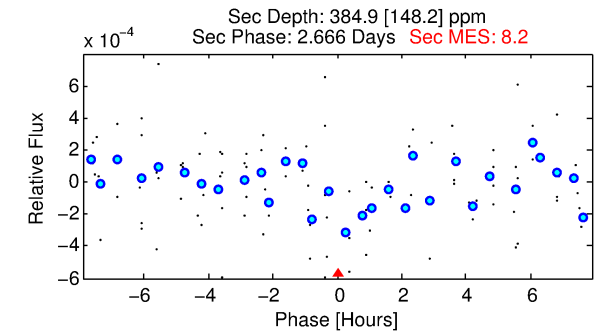
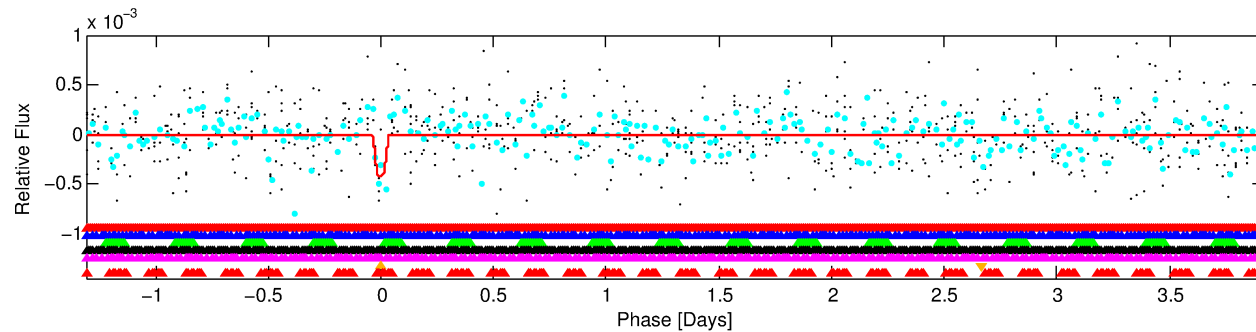
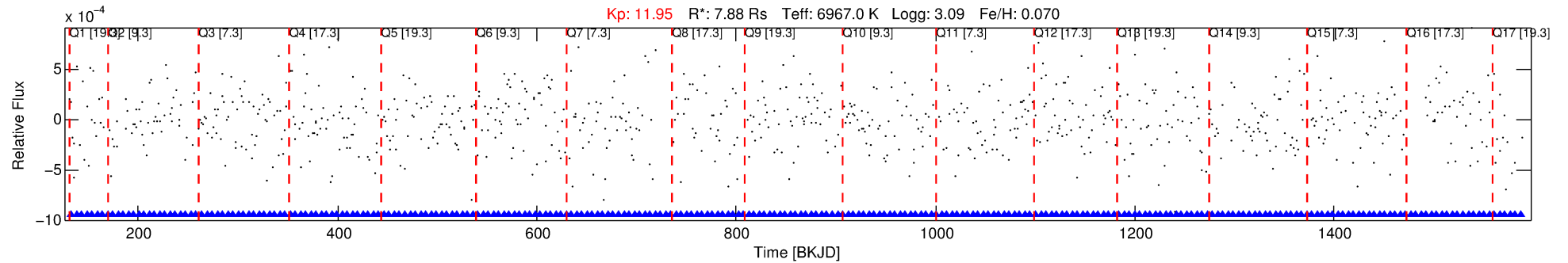
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008380088-06

No Significant Match Found

DV One-Page Summary

KIC: 8380088 Candidate: 6 of 7 Period: 5.229 d



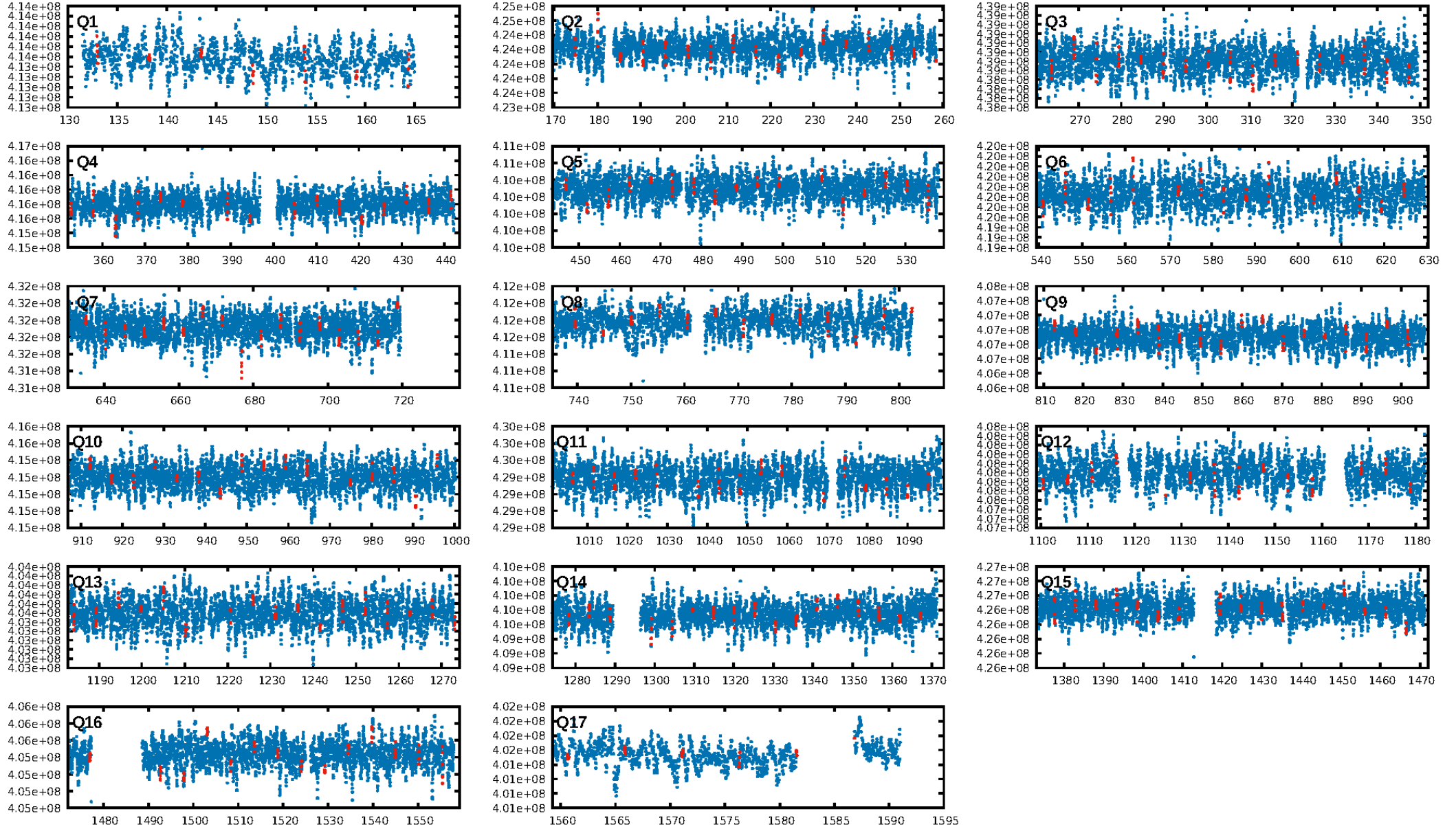
DV Fit Results:

Period = 5.22949 [0.00009] d
Epoch = 132.9919 [0.0124] BKJD
Rp/R* = 0.0191 [0.0680]
a/R* = 30.81 [572.06]
b = 0.05 [378.56]
Seff = 18907.41 [18432.48]
Teq = 2990 [729] K
Rp = 16.43 [59.23] Re
a = 0.0832 [0.0489] AU
Ag = 5.43 [39.04] [0.11 σ]
Teffp = 7057 [12573] K [0.32 σ]

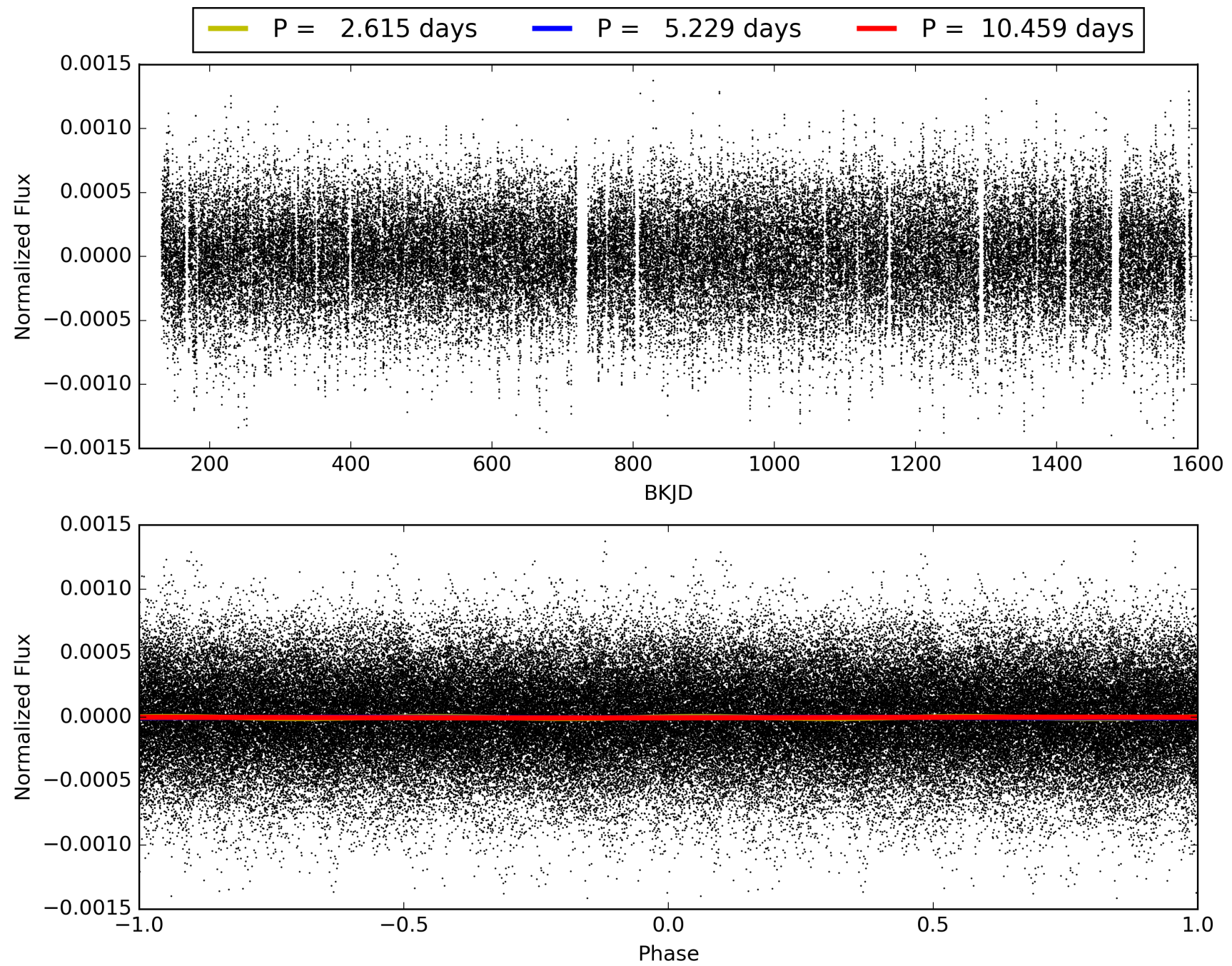
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [7.60 σ]
LongPeriod-sig: 100.0% [23.21 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 5.32e-04
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: -0.006553
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.108 arcsec [0.34 σ]
OotOffset-st: 3/4/0/4 [11]
KicOffset-rm: 0.121 arcsec [0.32 σ]
KicOffset-st: 3/4/0/4 [11]
DiffImageQuality-fgm: 0.64 [7/11]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 008380088-06, PDC Light Curves

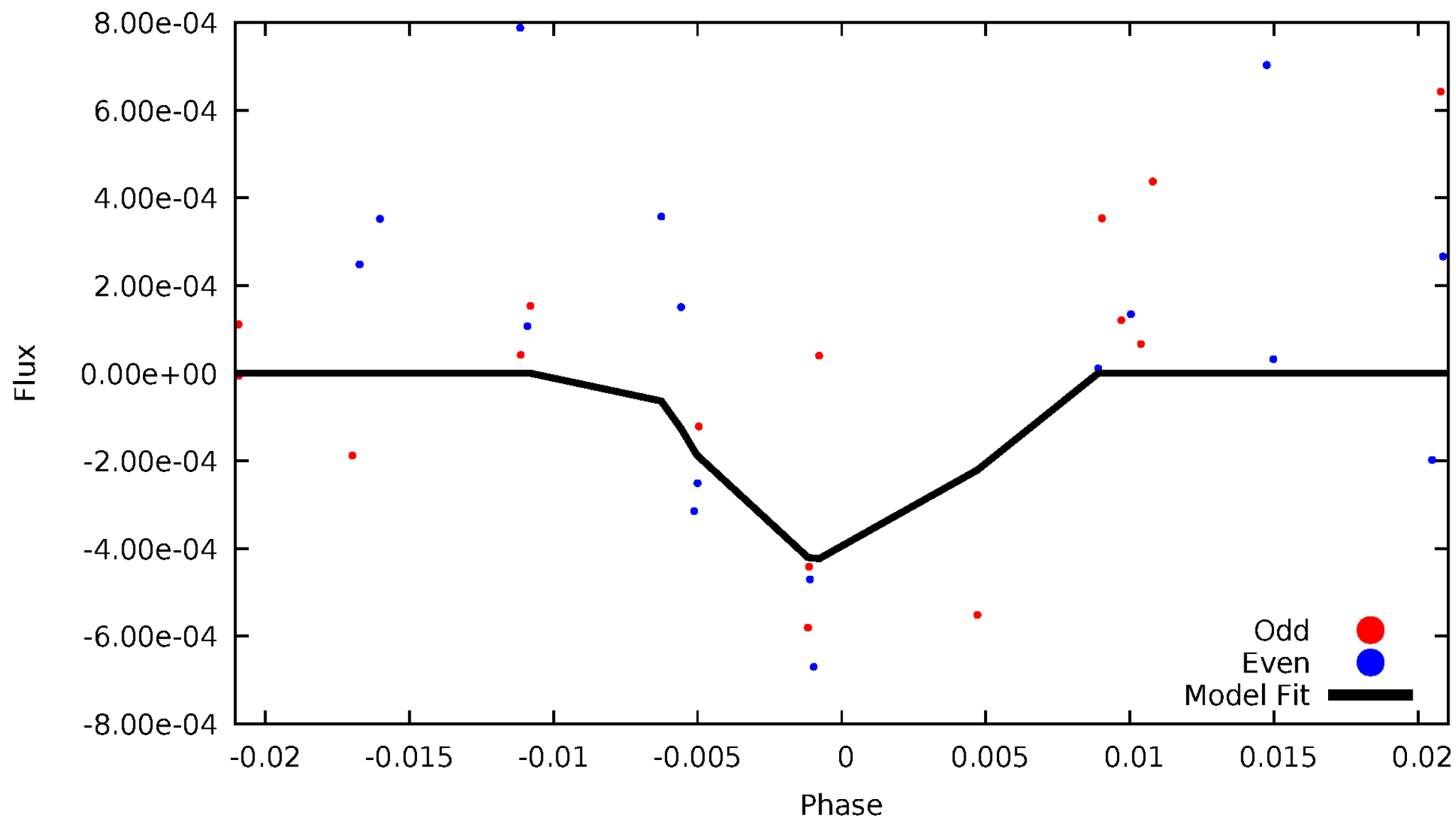


TCE 008380088-06



DV Odd/Even

TCE 008380088-06

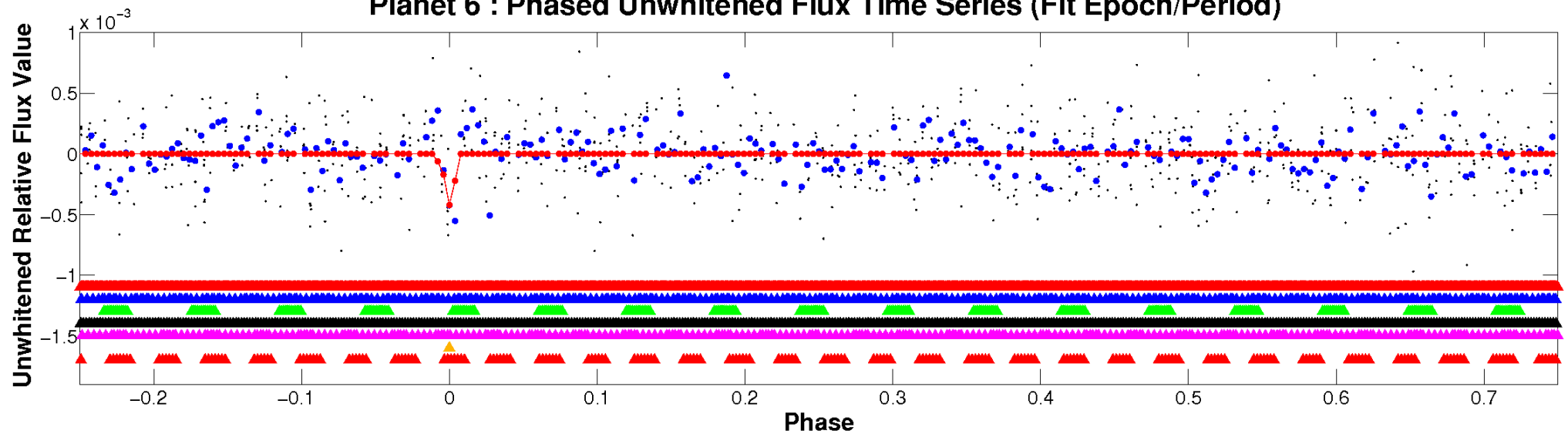


ALT Odd/Even

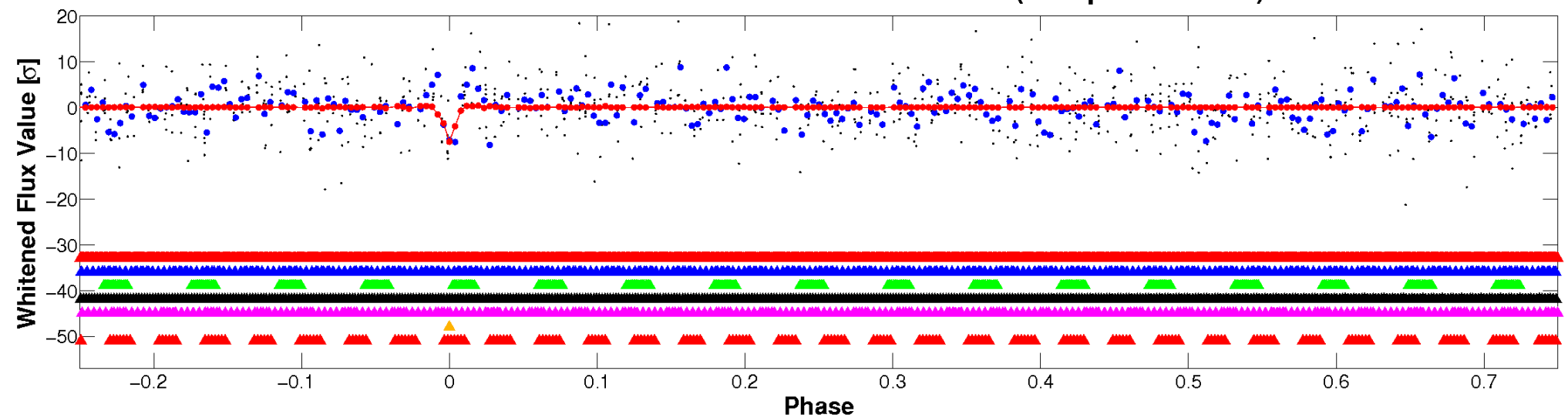
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

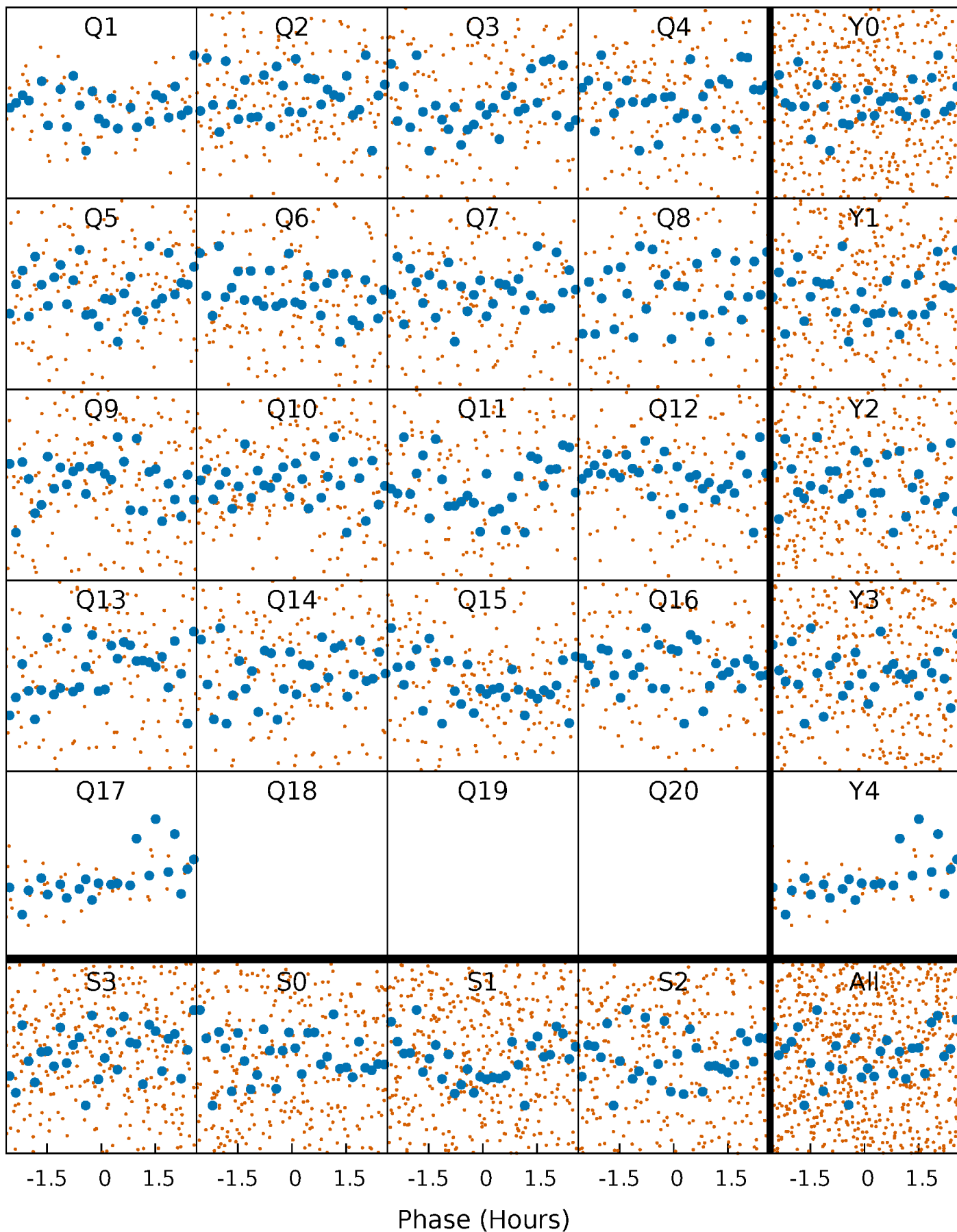


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



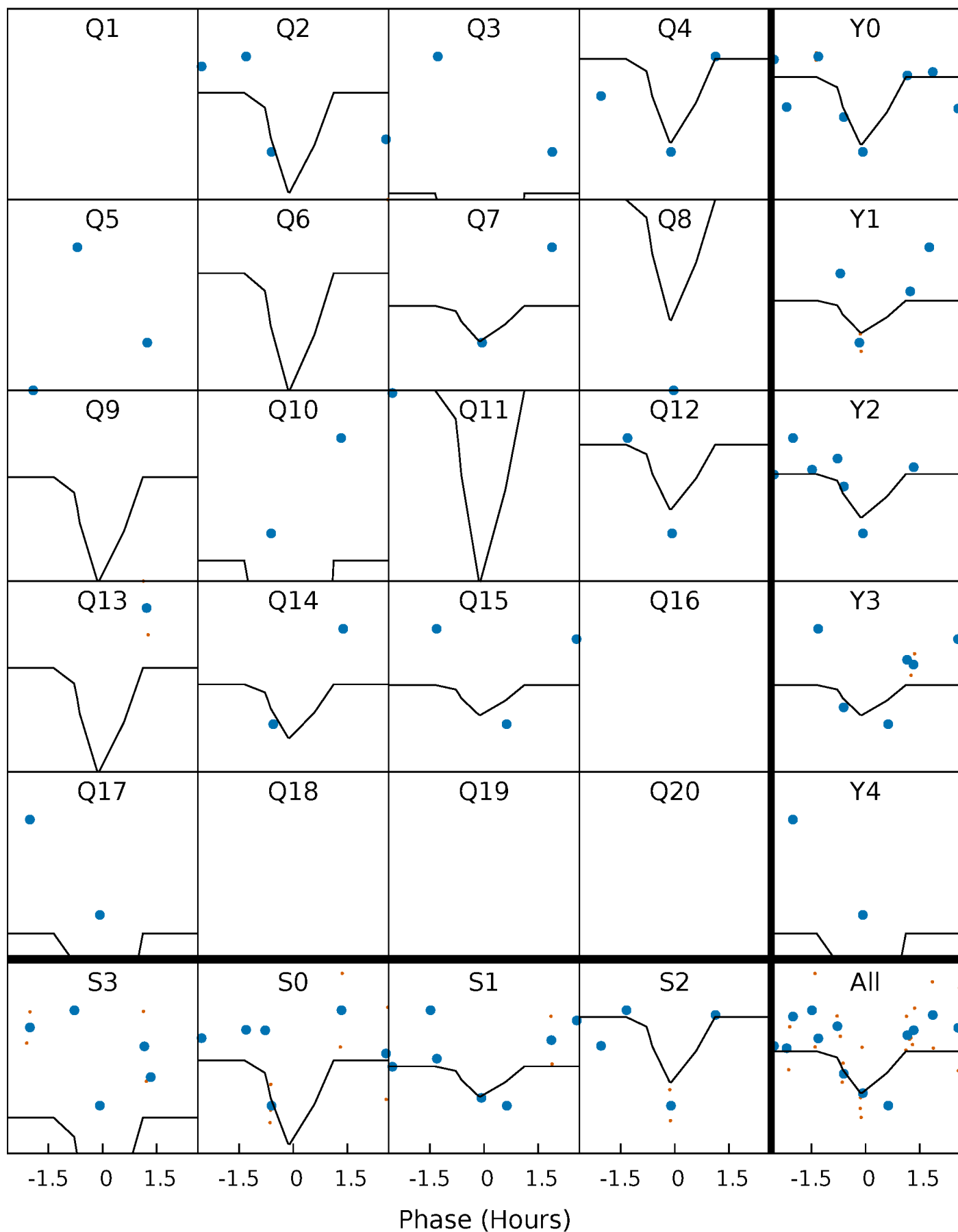
PDC Quarter-Phased Transit Curves

TCE 008380088-06 P= 5.229491 Days $T_0=132.991932$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 008380088-06 P= 5.229491 Days $T_0=132.991932$ (BKJD)

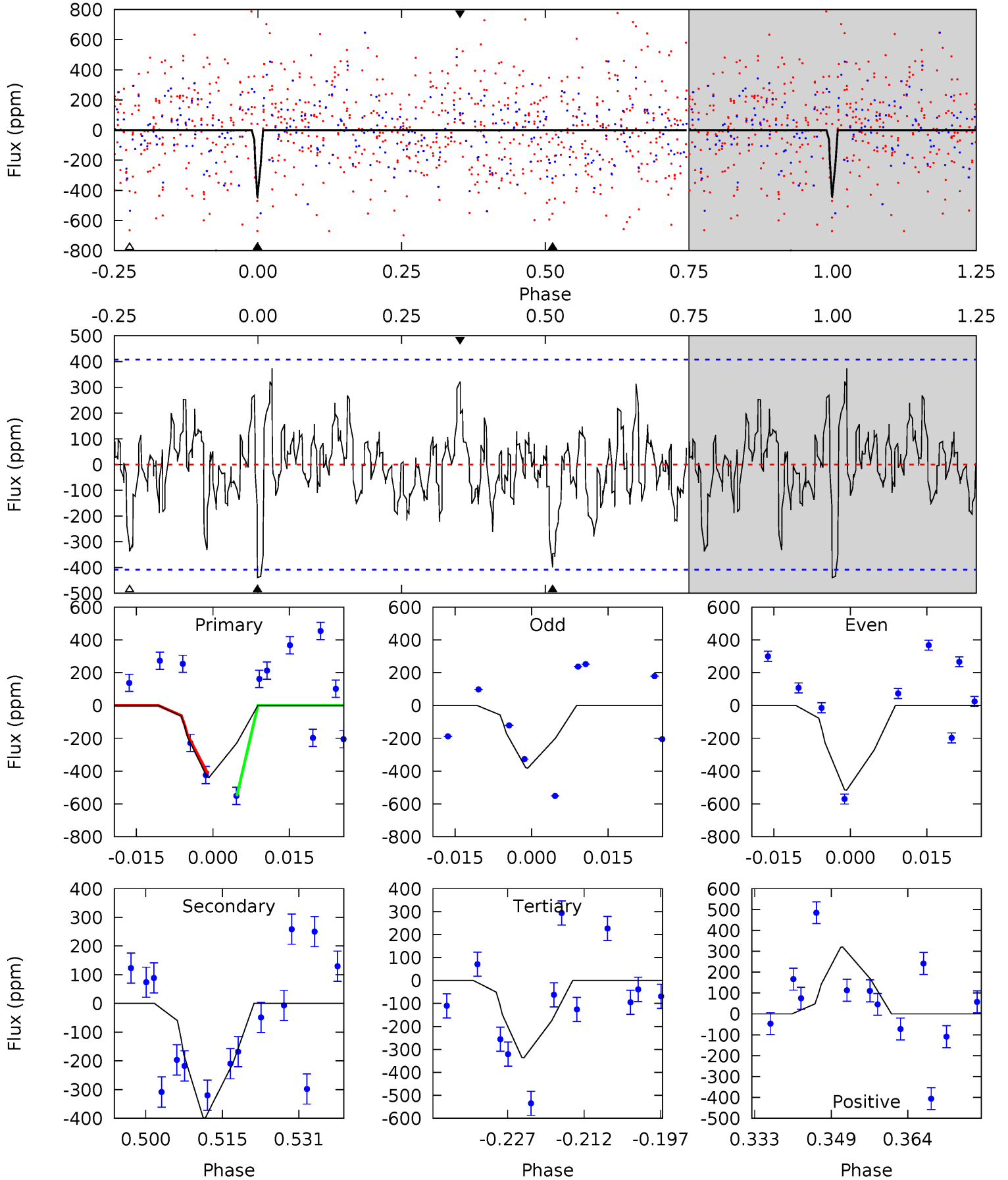


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

008380088-06, P = 5.229491 Days, E = 127.762441 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.32	4.84	4.09	3.88	4.95	2.43	1.37	1.23	1.44	0.76	0.96	0.83	0	0.46	0.53



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 008380088

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6967^{+167}_{-209}	$3.094^{+0.578}_{-0.102}$	$0.070^{+0.200}_{-0.300}$	$7.875^{+1.519}_{-4.556}$	$2.811^{+0.311}_{-0.995}$	$0.008^{+0.066}_{-0.003}$
	+2%/-3%	+19%/-3%	+286%/-429%	+19%/-58%	+11%/-35%	+812%/-31%
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 008380088-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-400 ± 82	$40.49^{+46.59}_{-29.07}$	4055^{+263}_{-610}	4125^{+3511}_{-7282}	$0.956^{+9.390}_{-0.759}$
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 $A_{\text{obs}} \gg 1.0$

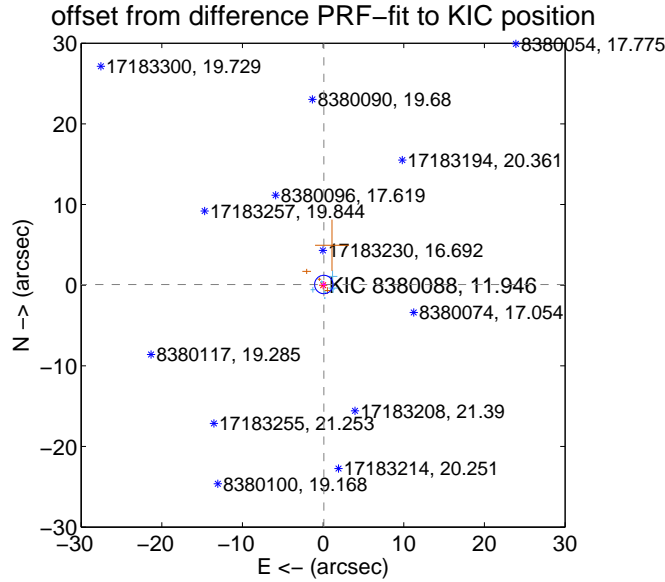
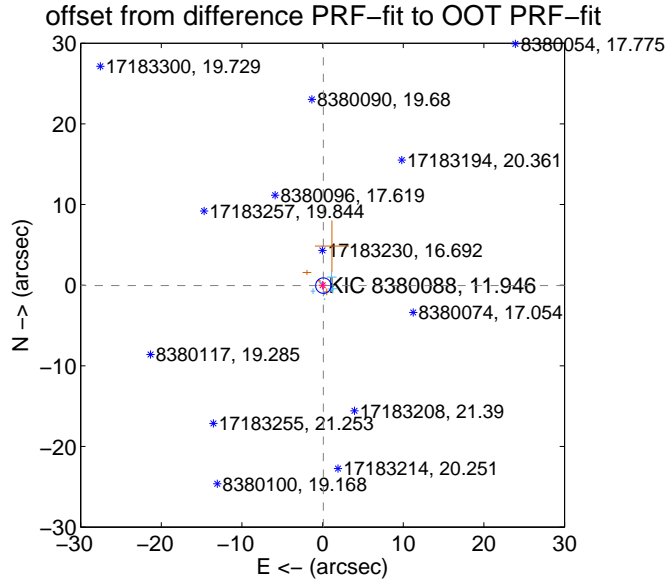
DV Centroid Data

Supplemental centroid analysis for 008380088-06. **Kepler magnitude: 11.95.** Transit SNR 18.69

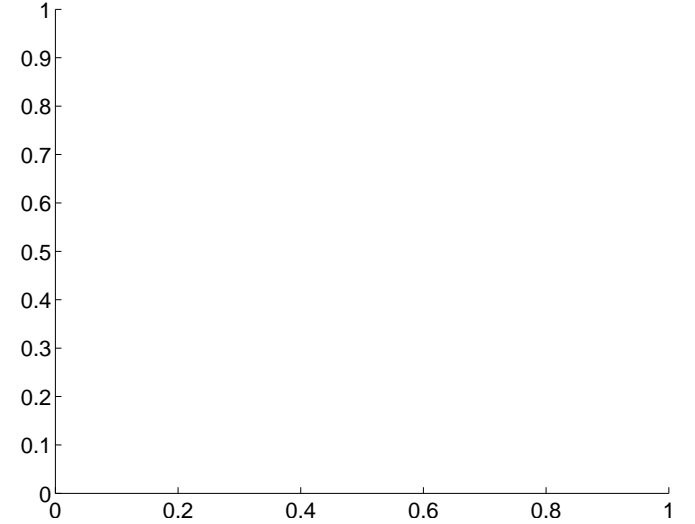
There are 7 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.108 ± 0.319	0.34	-0.094 ± 0.286	-0.054 ± 0.495
PRF-fit source offset from KIC position	0.121 ± 0.380	0.32	-0.087 ± 0.288	0.083 ± 0.455
photometric centroid source offset	—	—	—	—

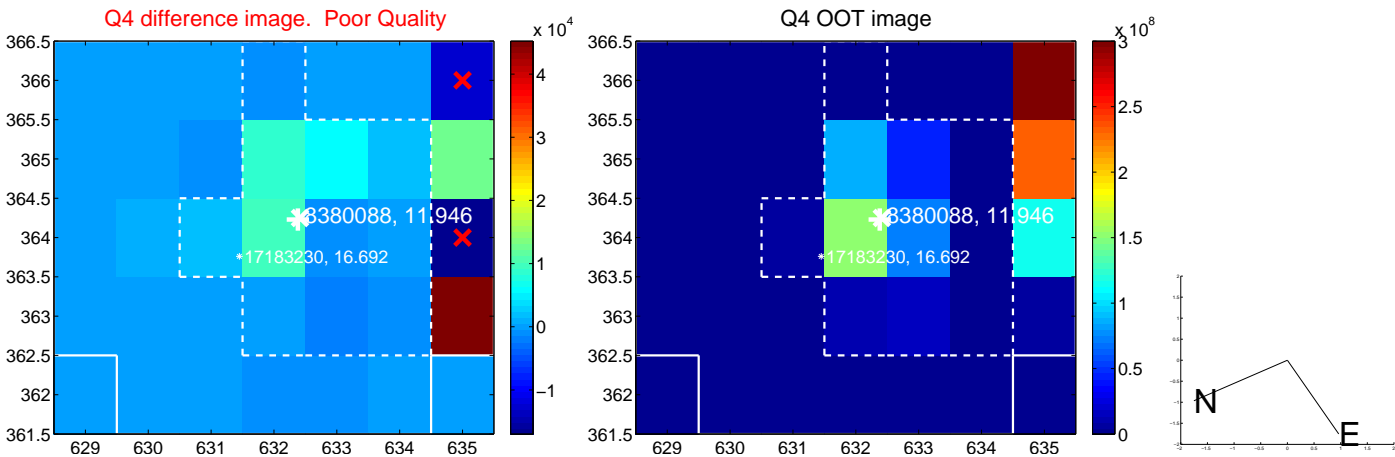
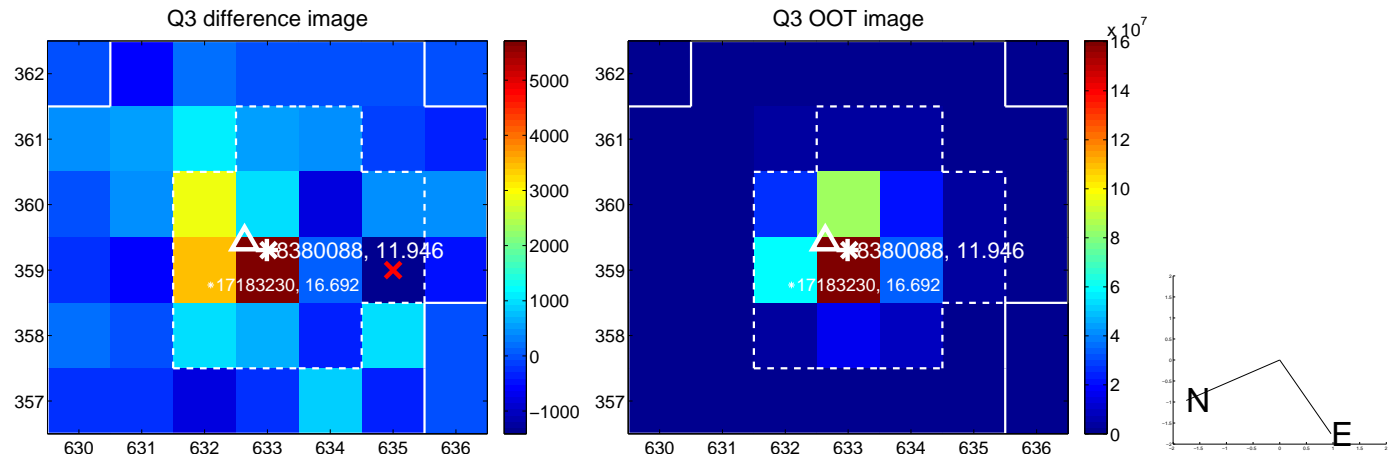
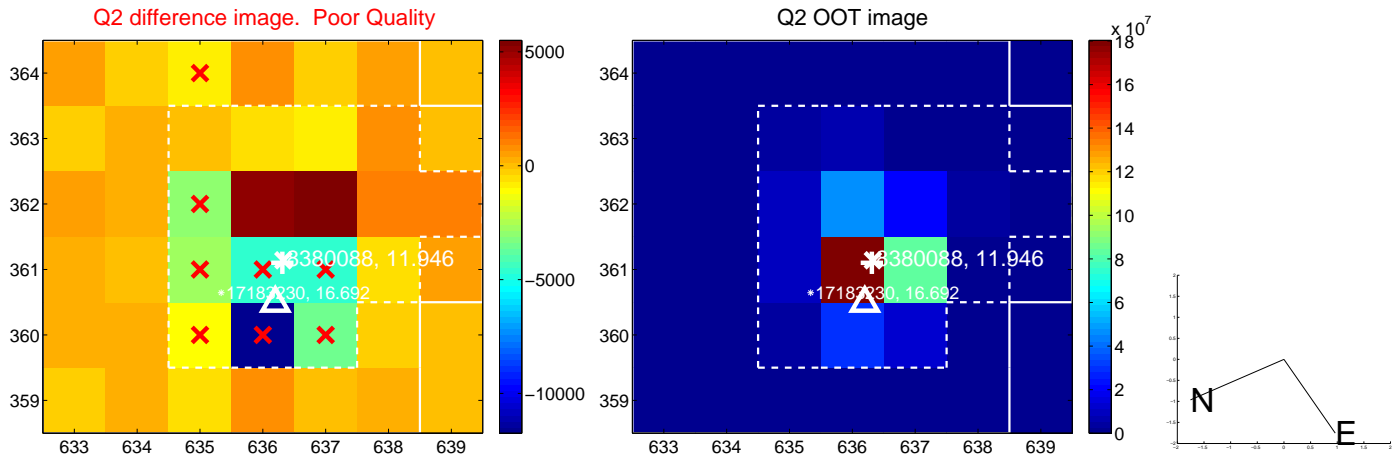
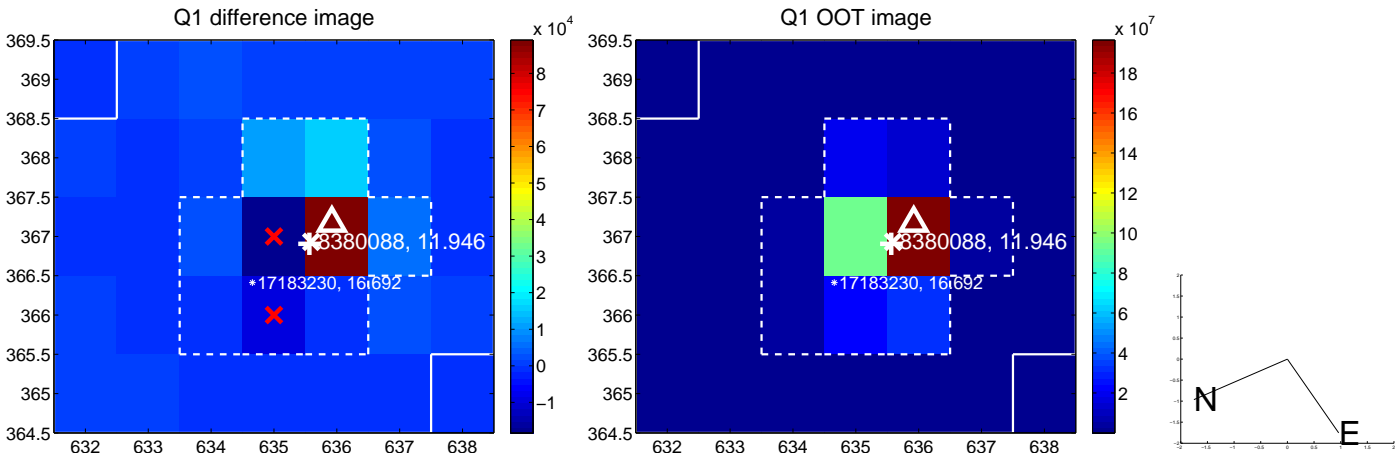


There are no photometric centroids

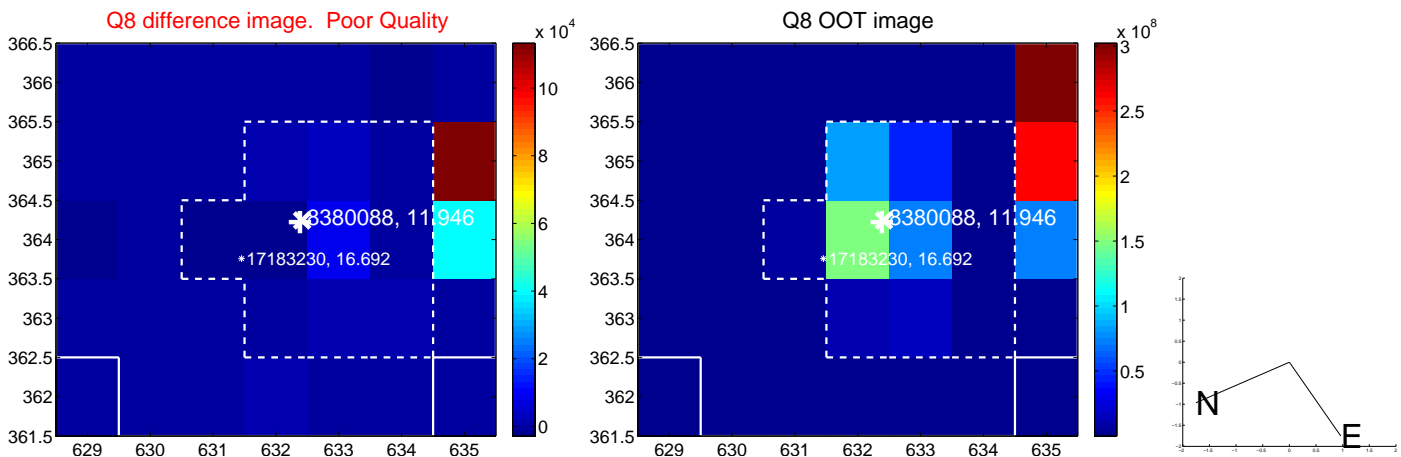
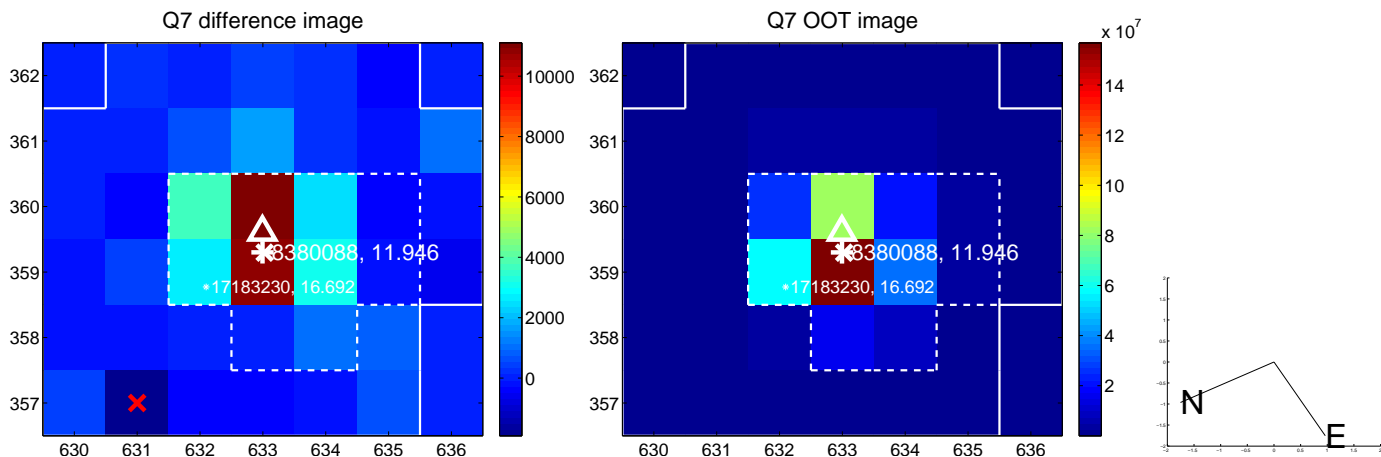
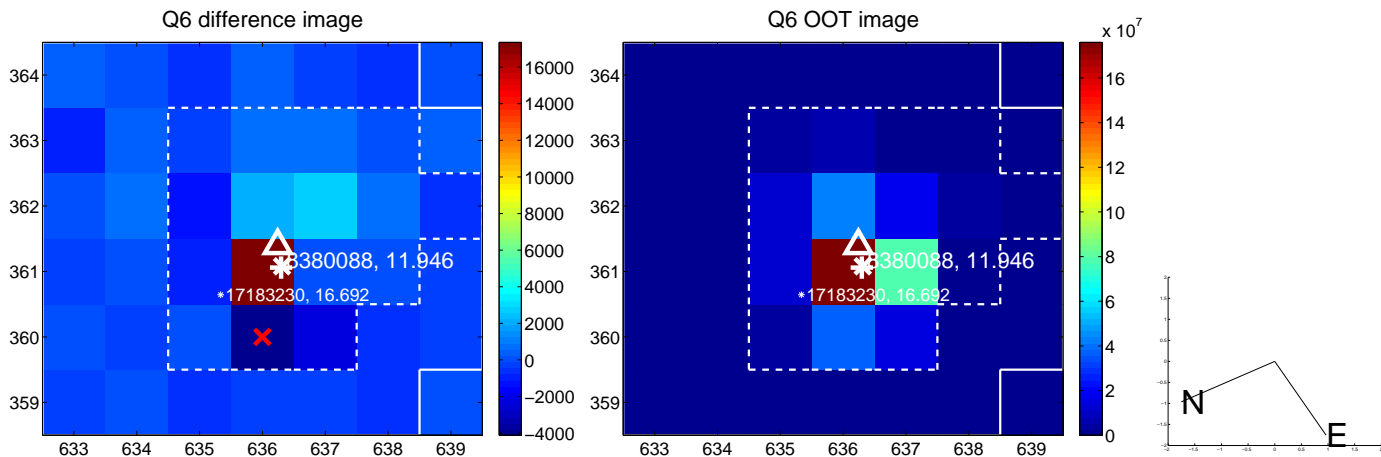
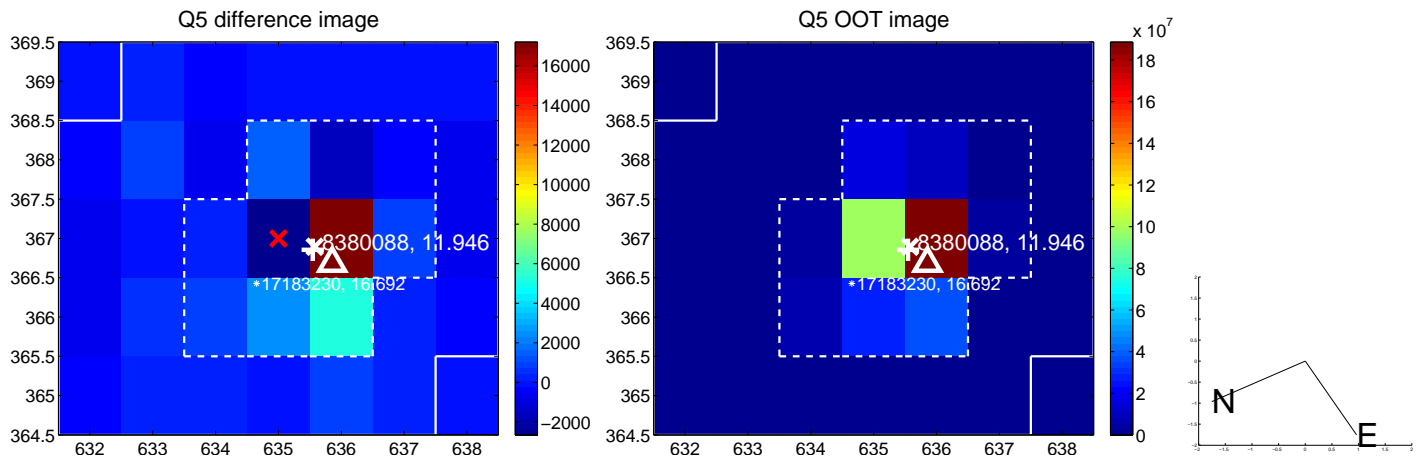


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

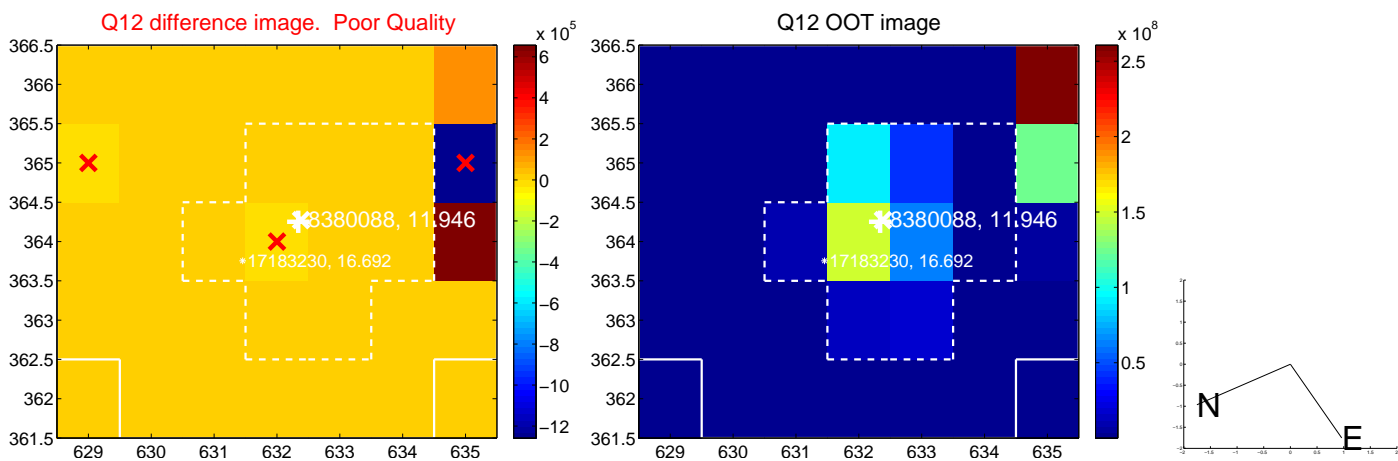
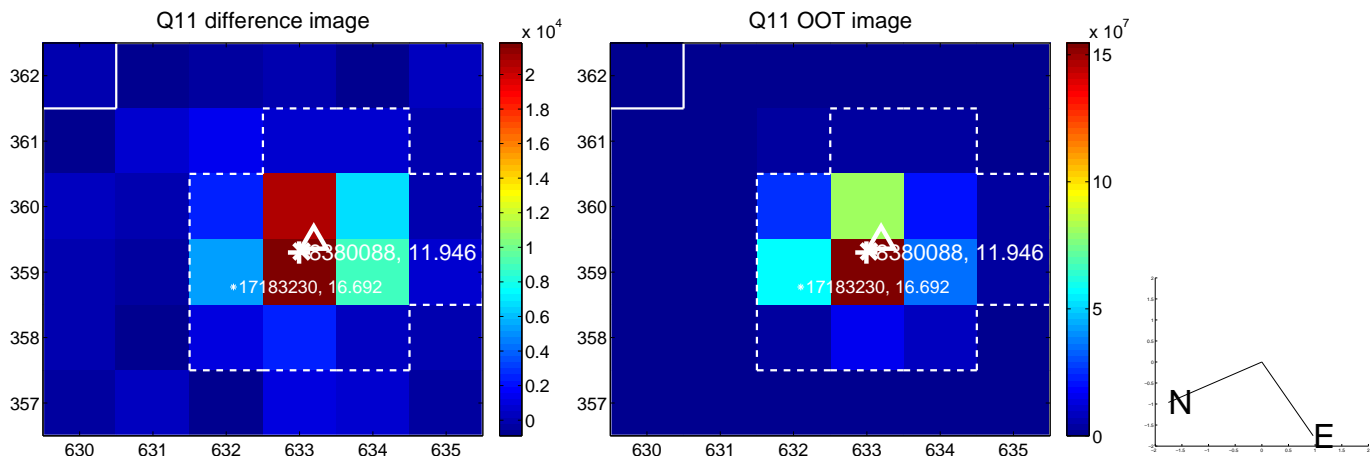
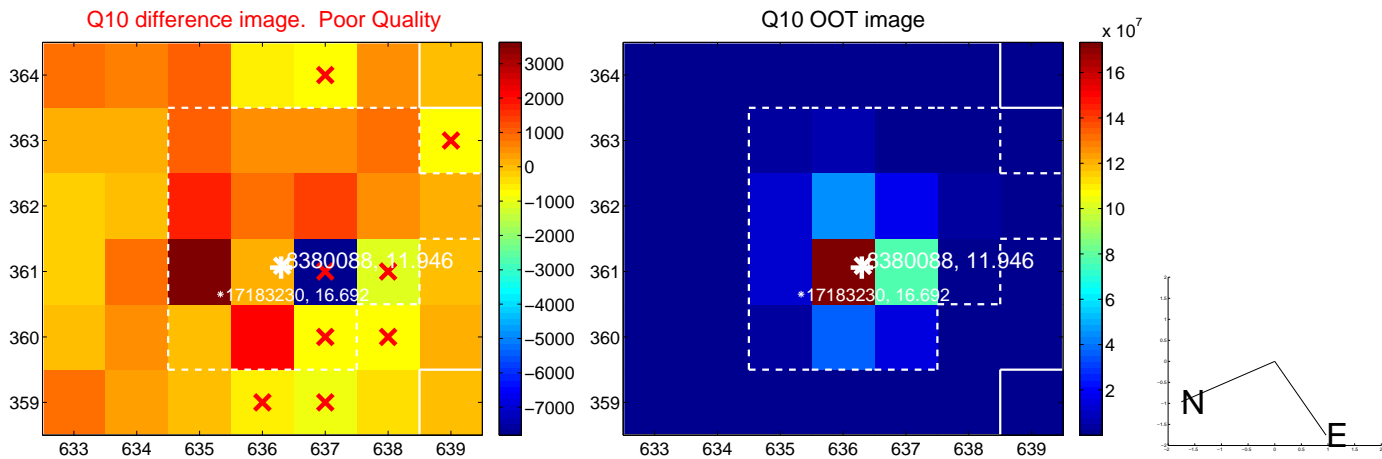
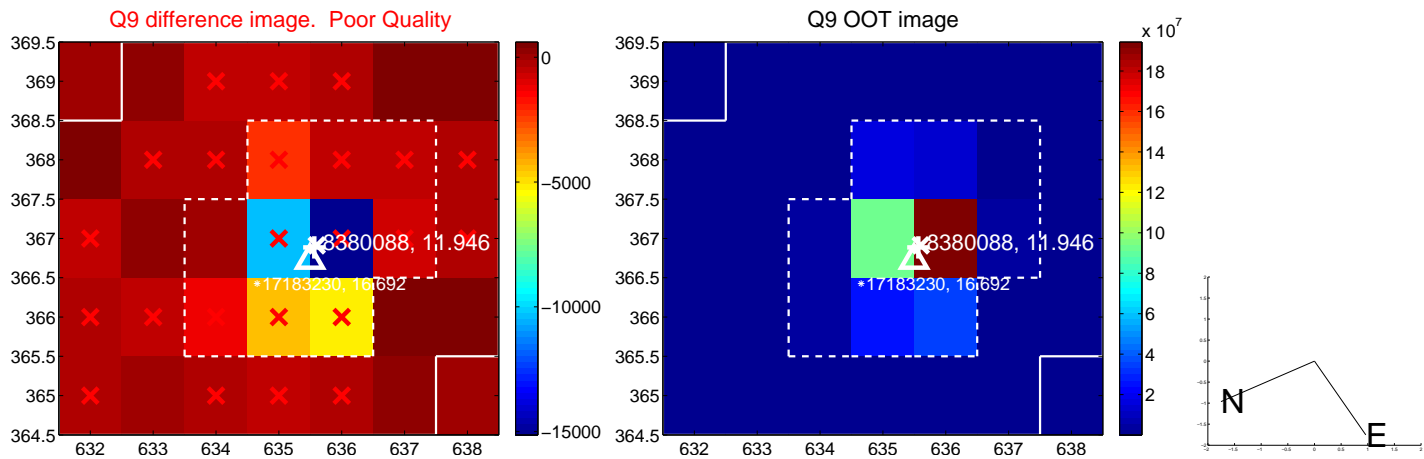
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



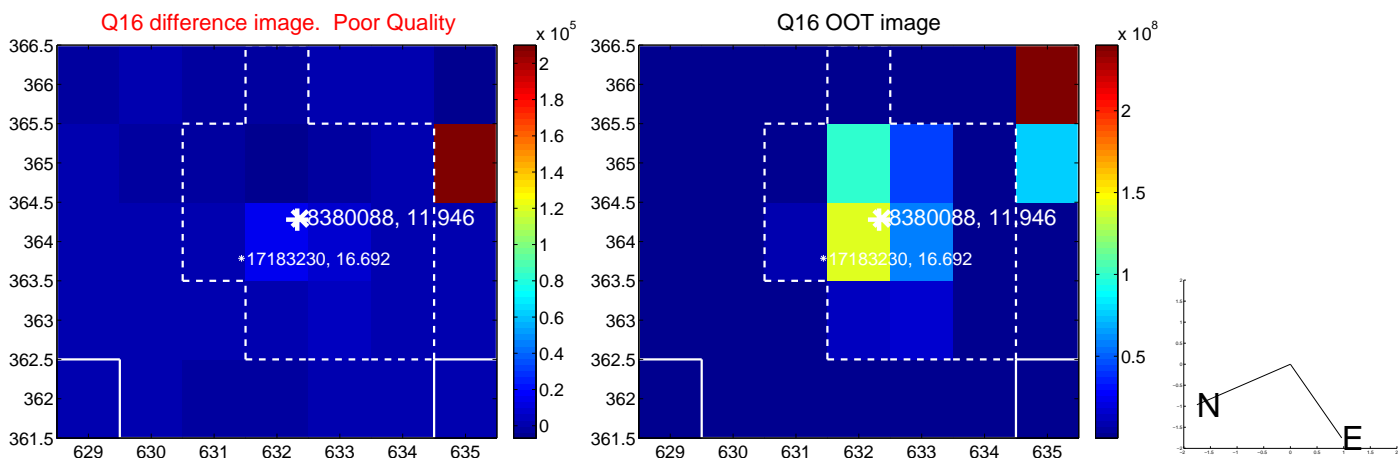
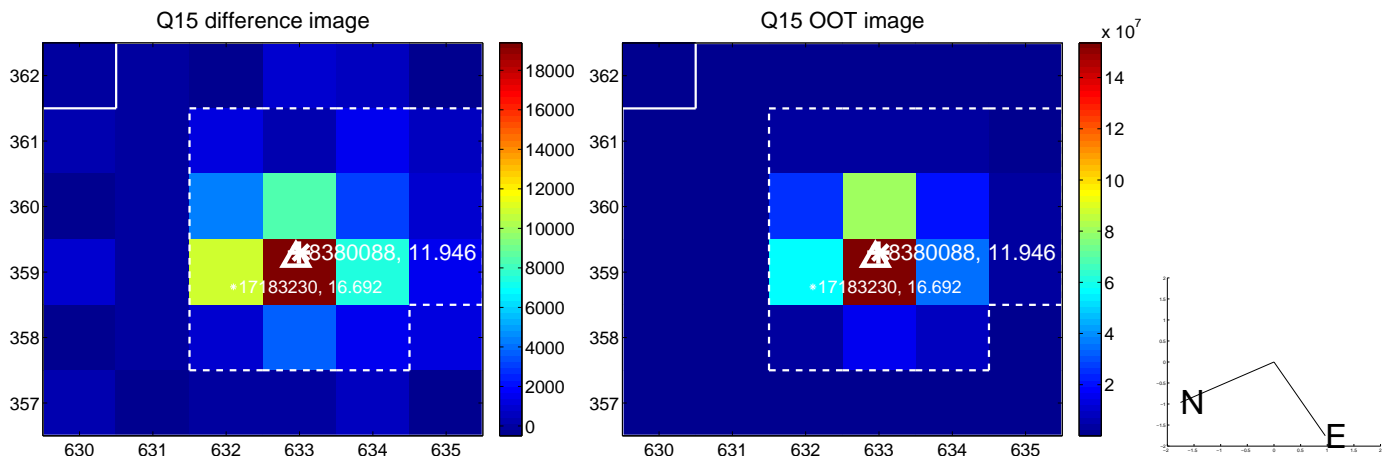
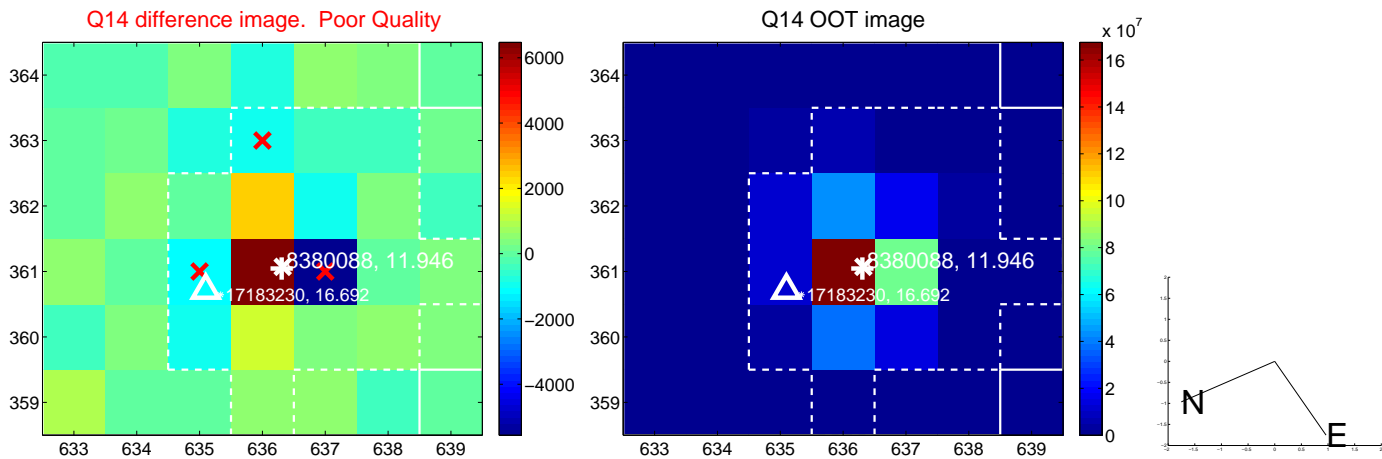
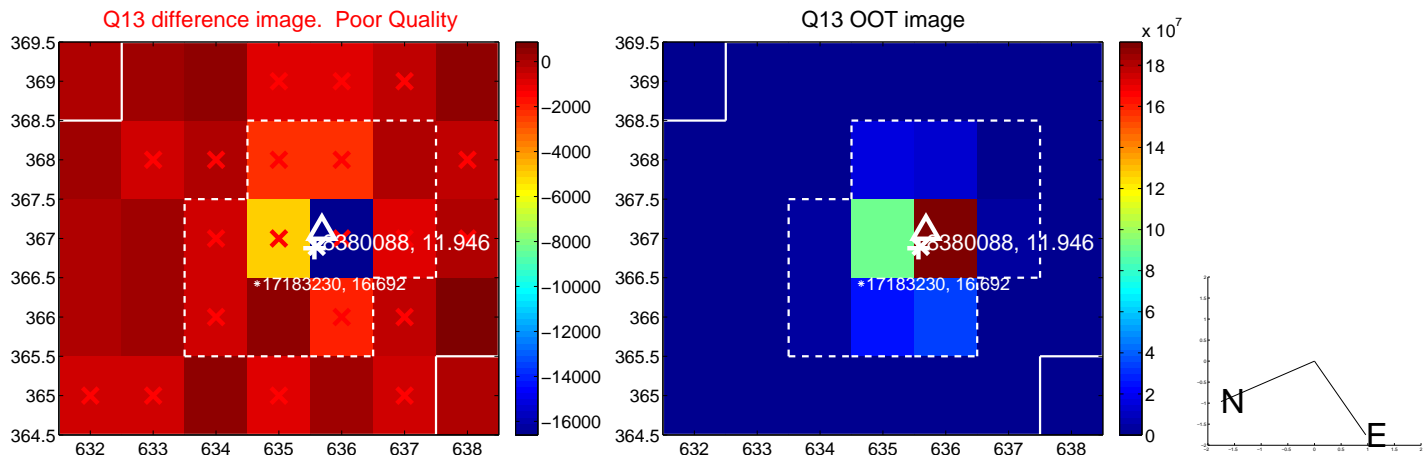
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



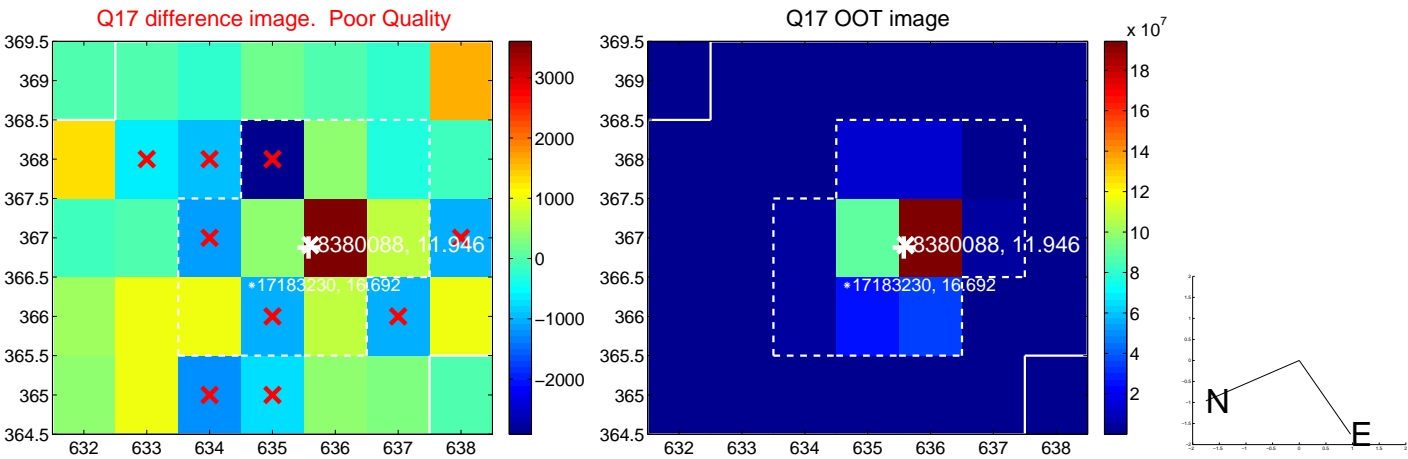
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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folded centroid time series figure for this object.

UKIRT Image

Declination

