

KIC 007798339

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})
007798339-01	OBS	No	1.584118	132.192178	28.9	5.753	8.3	8.3	2.33	6878	1.47	11286.28
007798339-02	OBS	No	6.085325	131.925443	117.0	19.816	10.1	12.1	2.33	6878	3.38	1875.96
007798339-03	OBS	No	1.926976	132.464978	84.1	23.124	10.0	14.7	2.33	6878	2.29	8691.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007798339-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007798339-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007798339-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—CENT_SATURATED

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

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

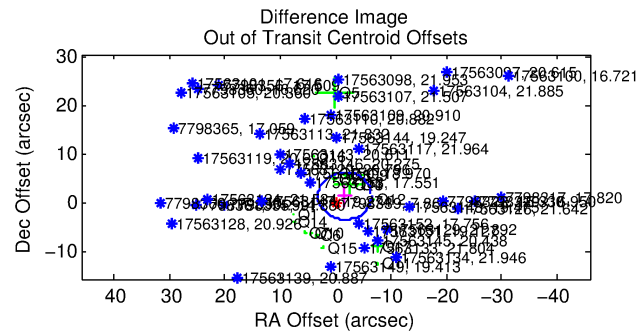
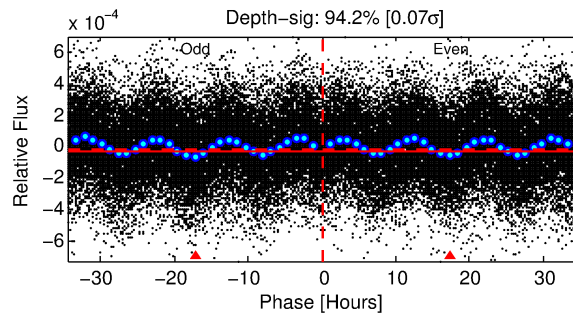
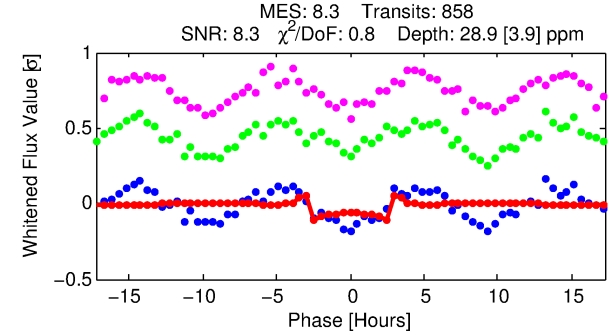
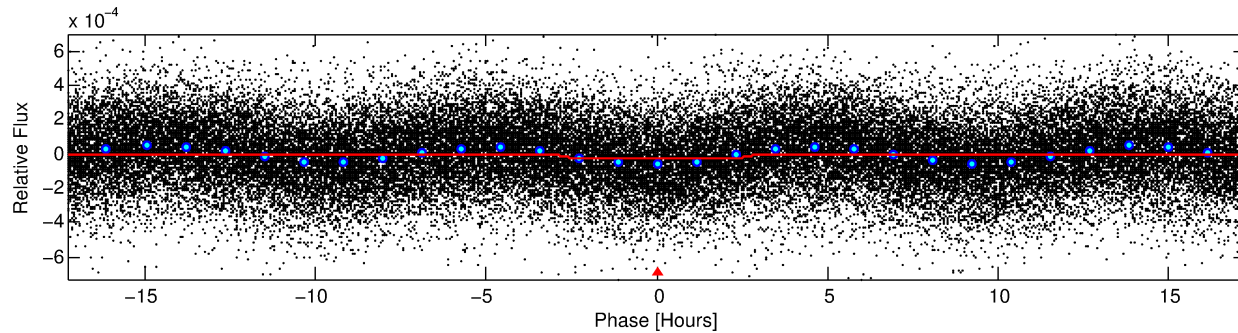
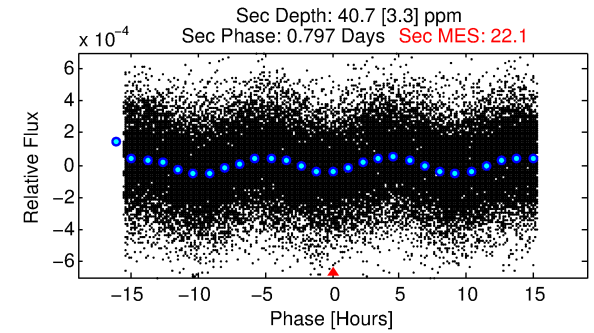
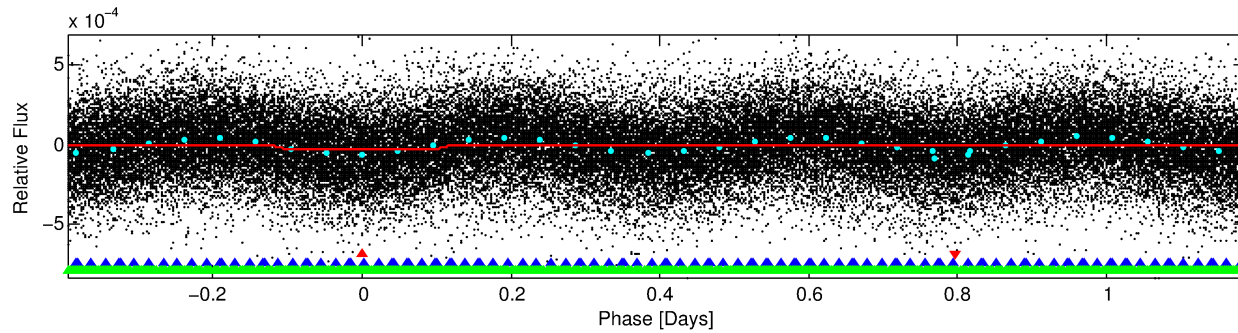
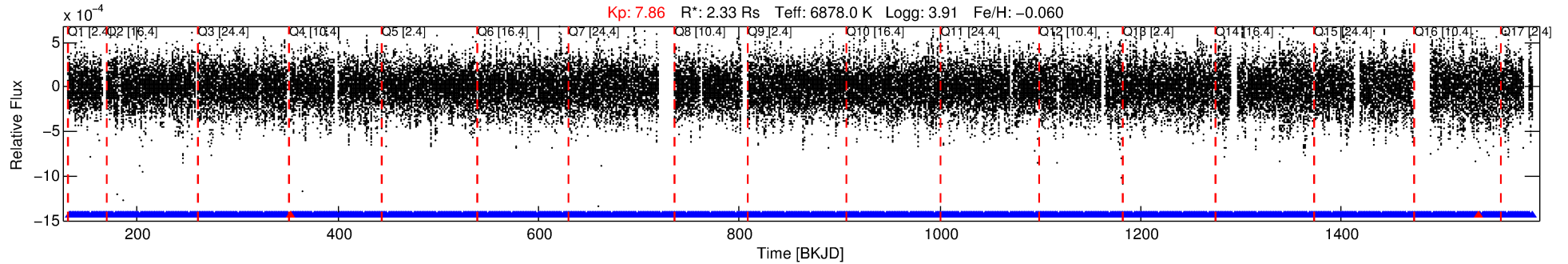
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007798339-01

No Significant Match Found

DV One-Page Summary

KIC: 7798339 Candidate: 1 of 3 Period: 1.584 d



DV Fit Results:

Period = 1.58412 [0.00001] d
Epoch = 132.1922 [0.0021] BKJD
Rp/R* = 0.0058 [0.0008]
a/R* = 1.31 [0.39]
b = 0.91 [0.14]
Seff = 11286.28 [3948.77]
Teq = 2628 [230] K
Rp = 1.47 [0.41] Re
a = 0.0311 [0.0068] AU
Ag = 10.03 [4.50] [2.01σ]
Teffp = 7232 [555] K [7.66σ]

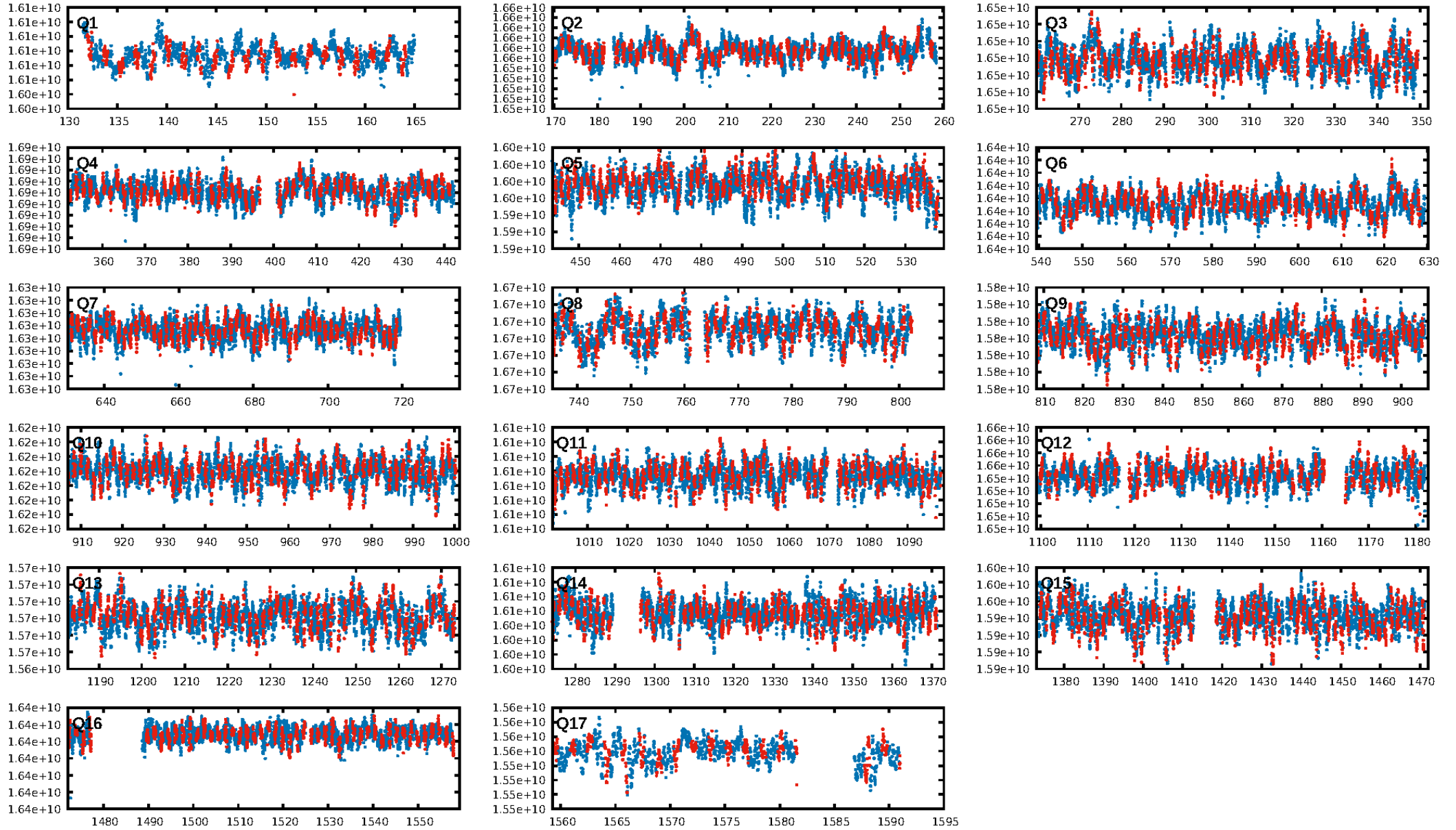
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 27.0% [0.35σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [818/820]
GhostDiagnostic-chr: N/A
Centroid-sig: 55.2%
Centroid-so: 1.036 arcsec [1.22σ]
OotOffset-rm: 2.204 arcsec [1.37σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-rm: 1.824 arcsec [1.17σ]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.00 [0/17]

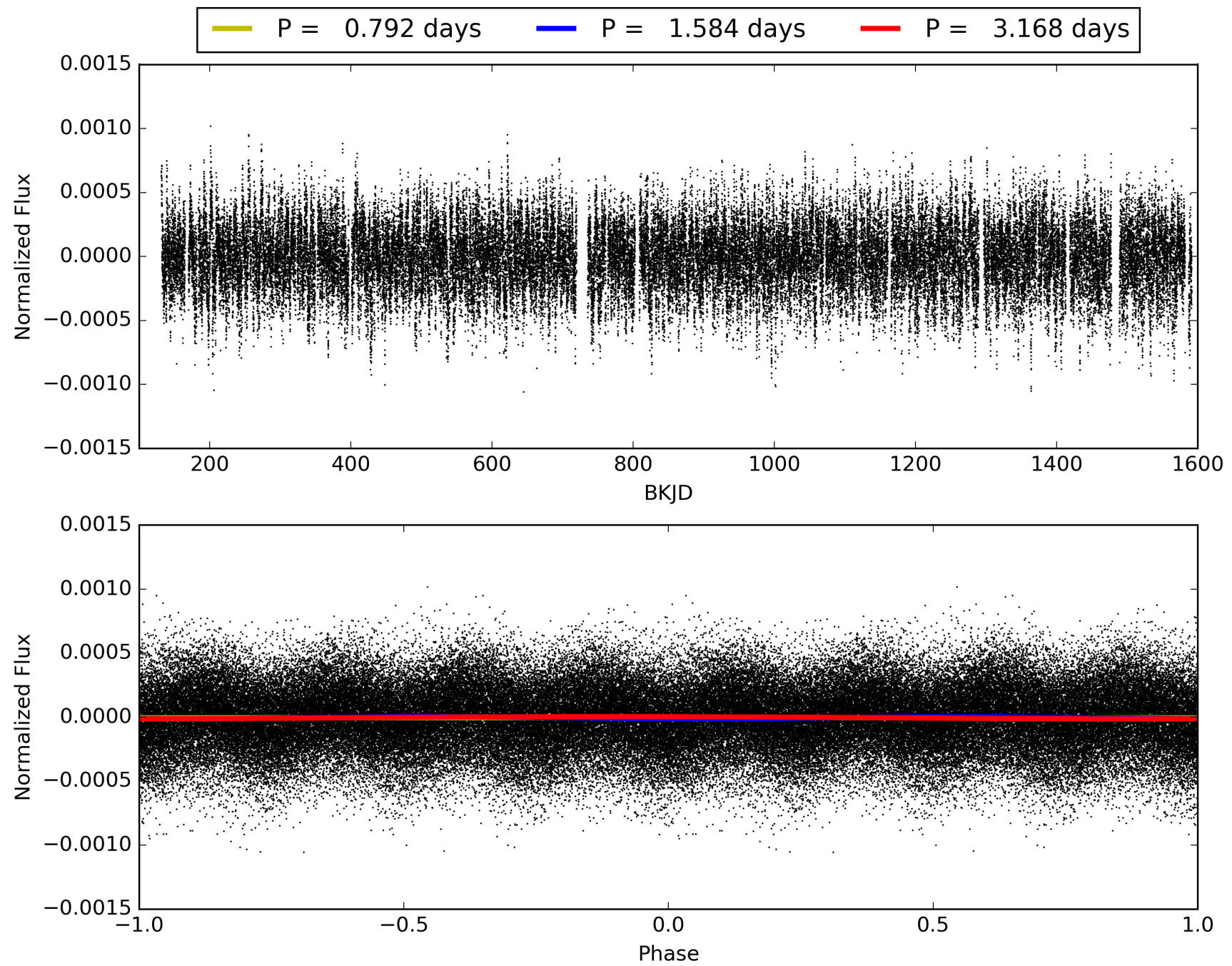
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007798339-01, PDC Light Curves

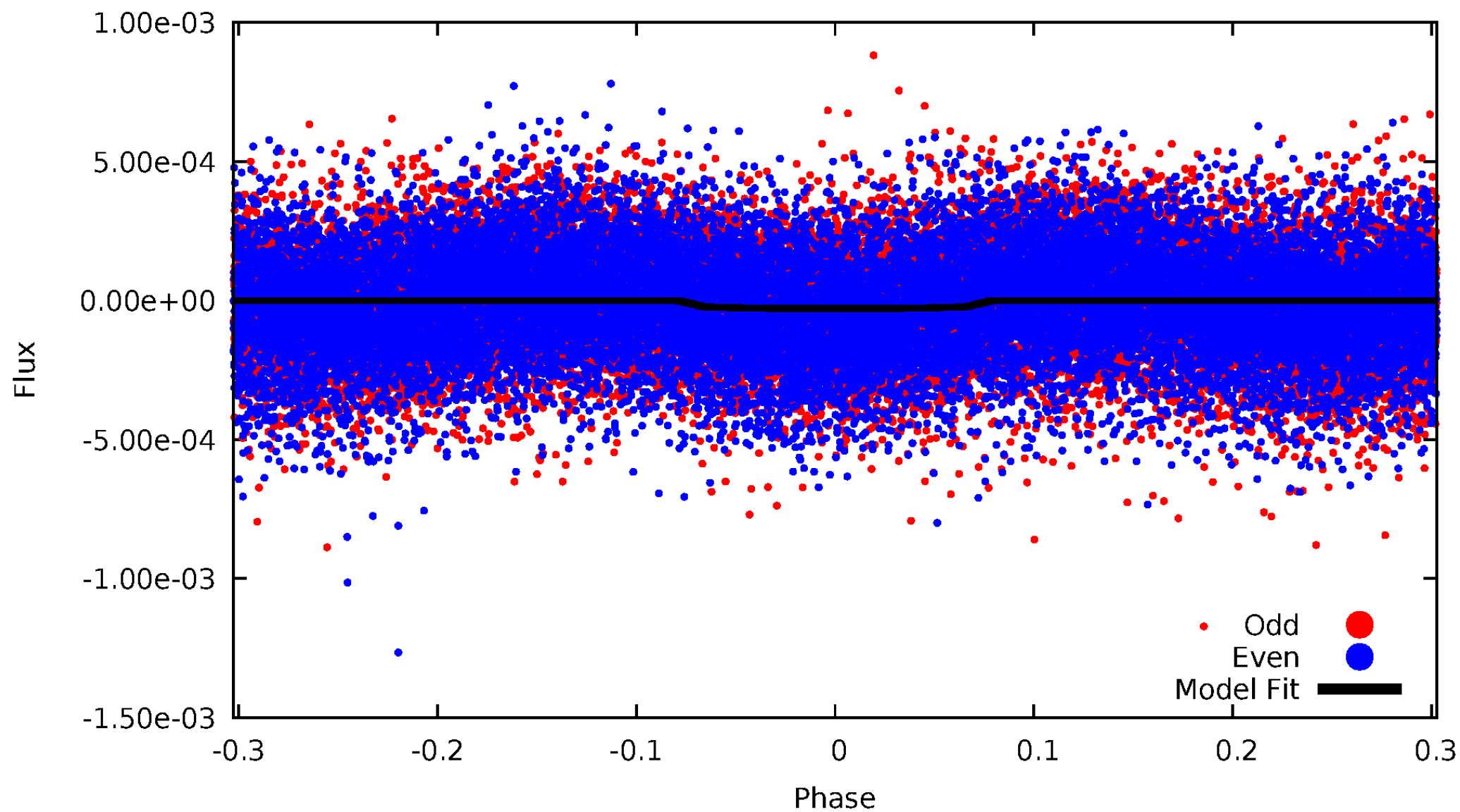


TCE 007798339-01



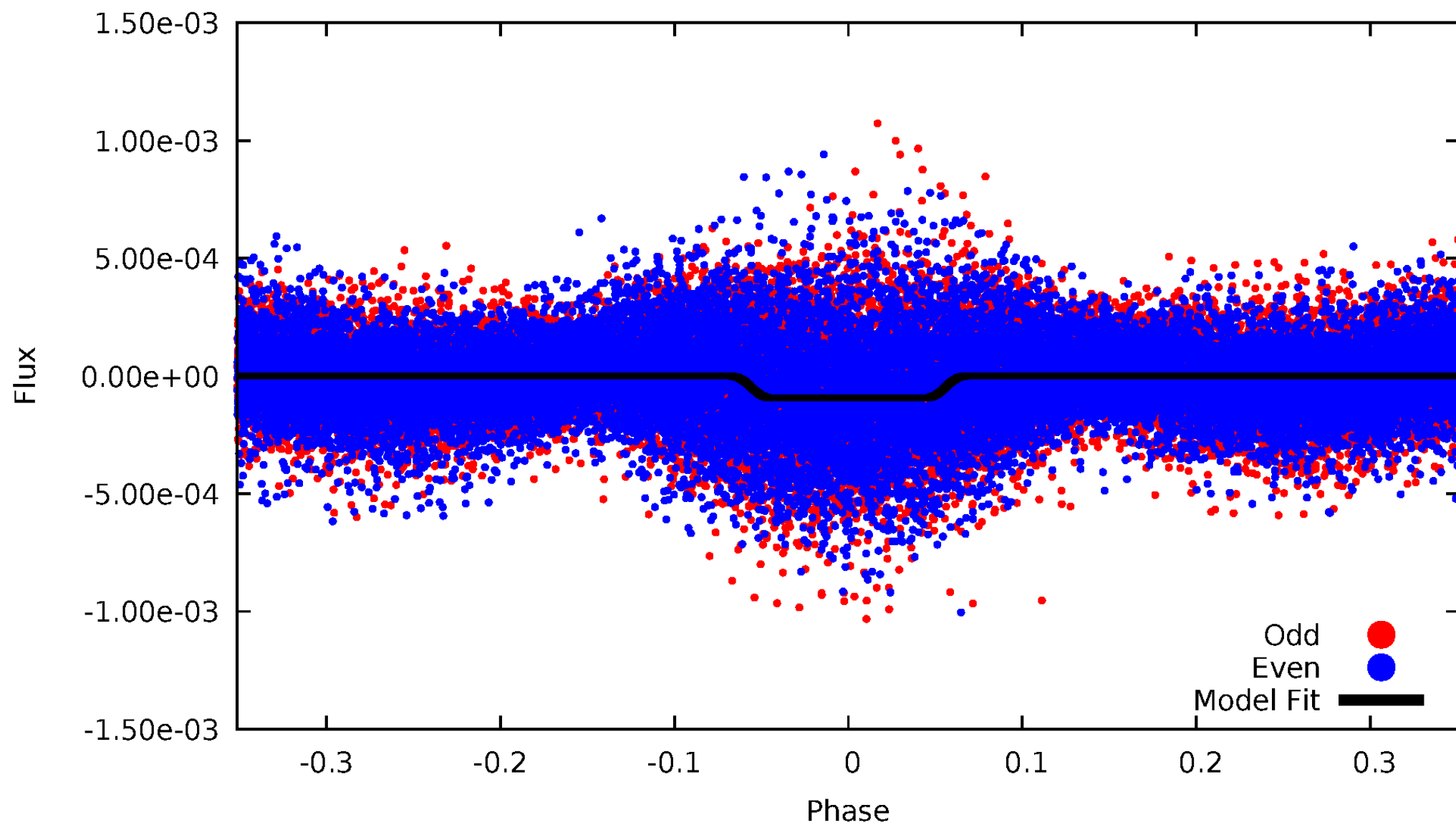
DV Odd/Even

TCE 007798339-01

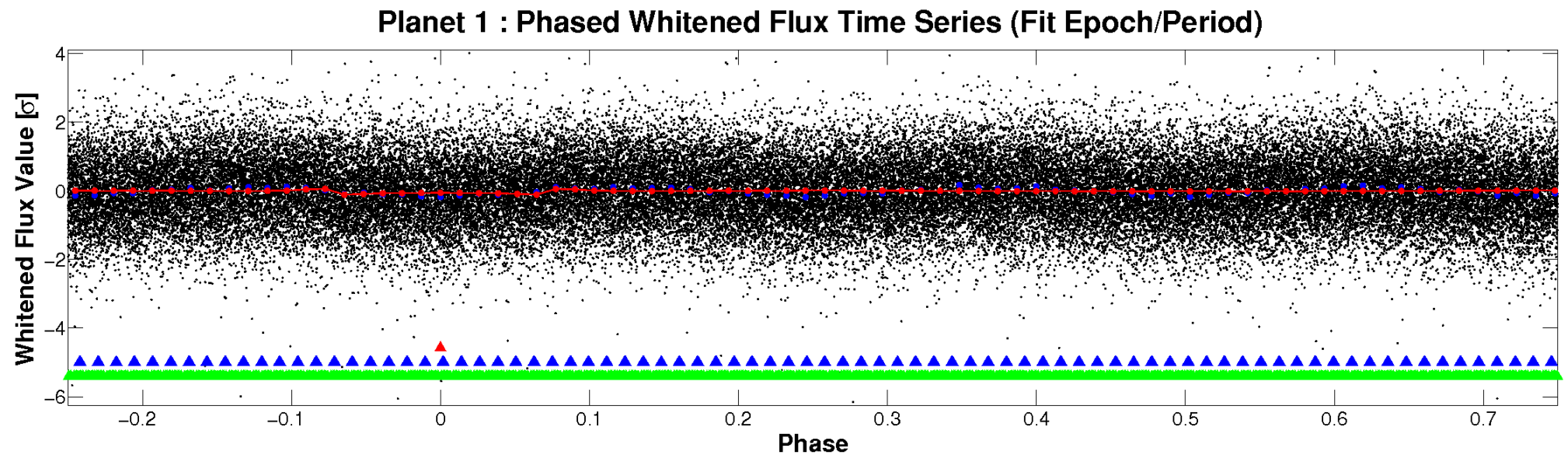
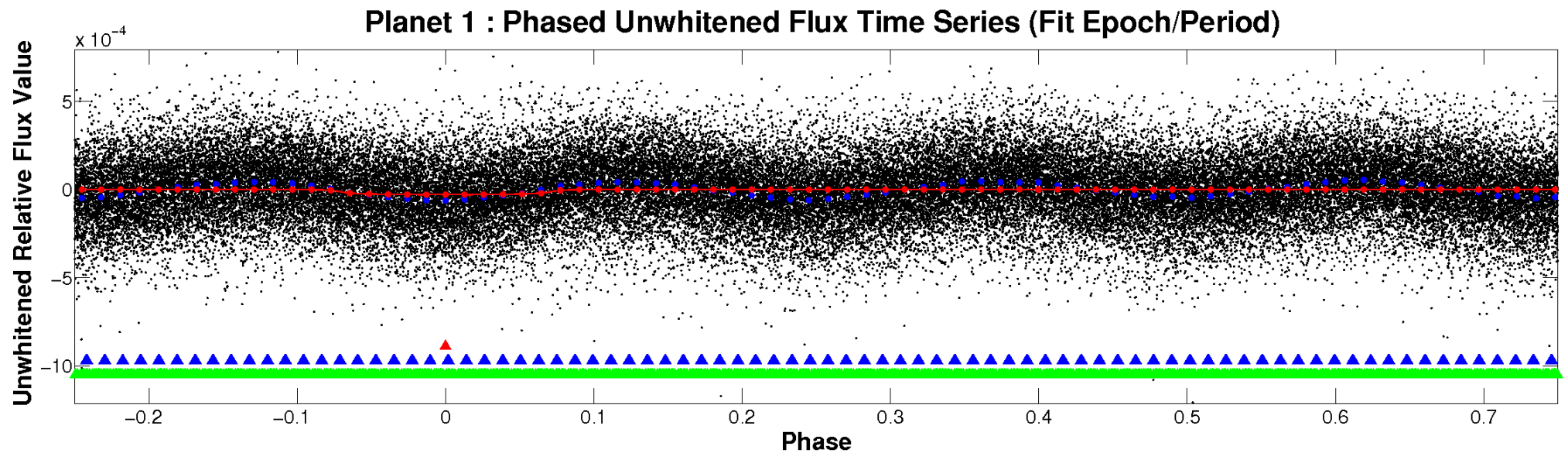


ALT Odd/Even

TCE 007798339-01

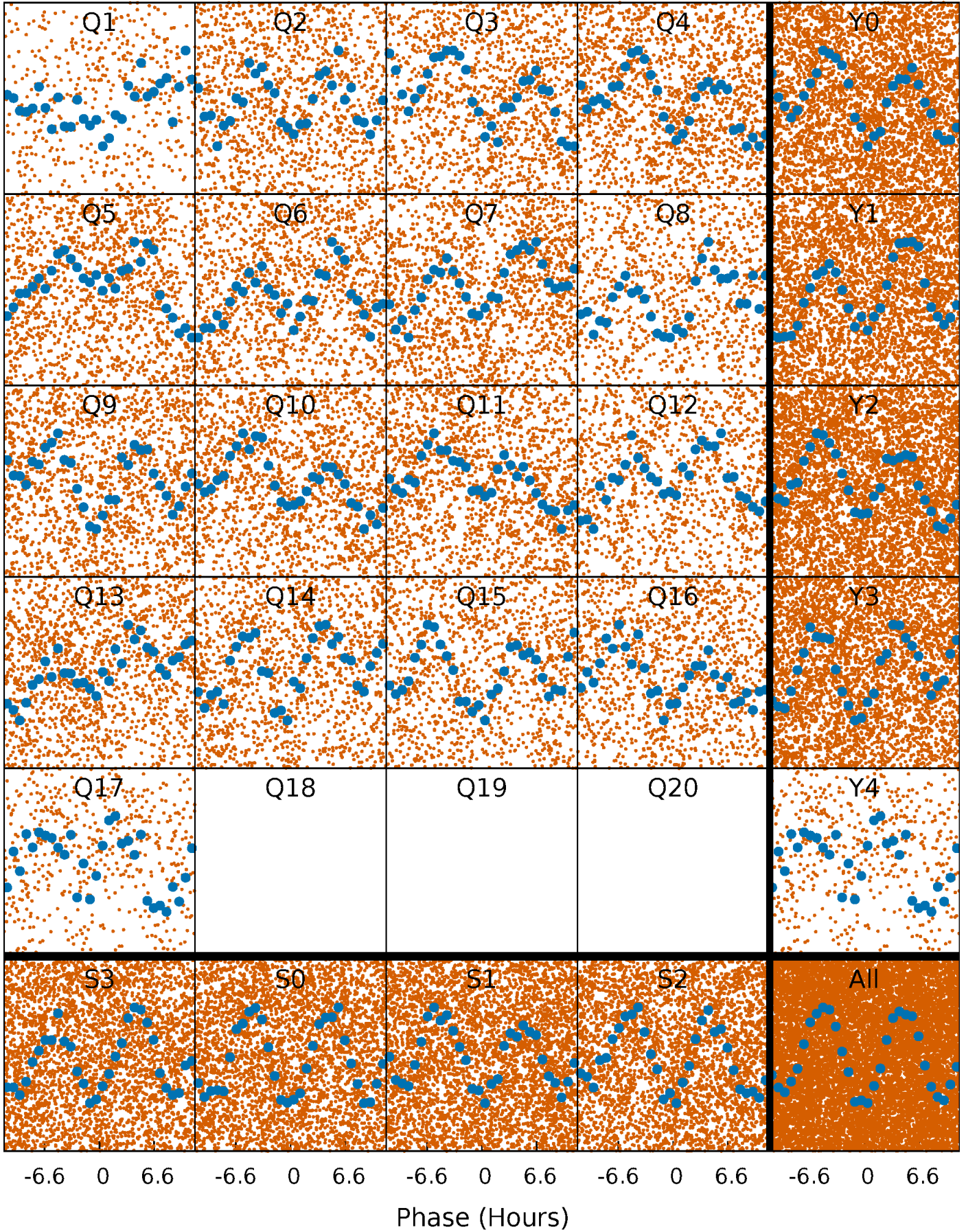


Non-Whitened Vs. Whitened Light Curve



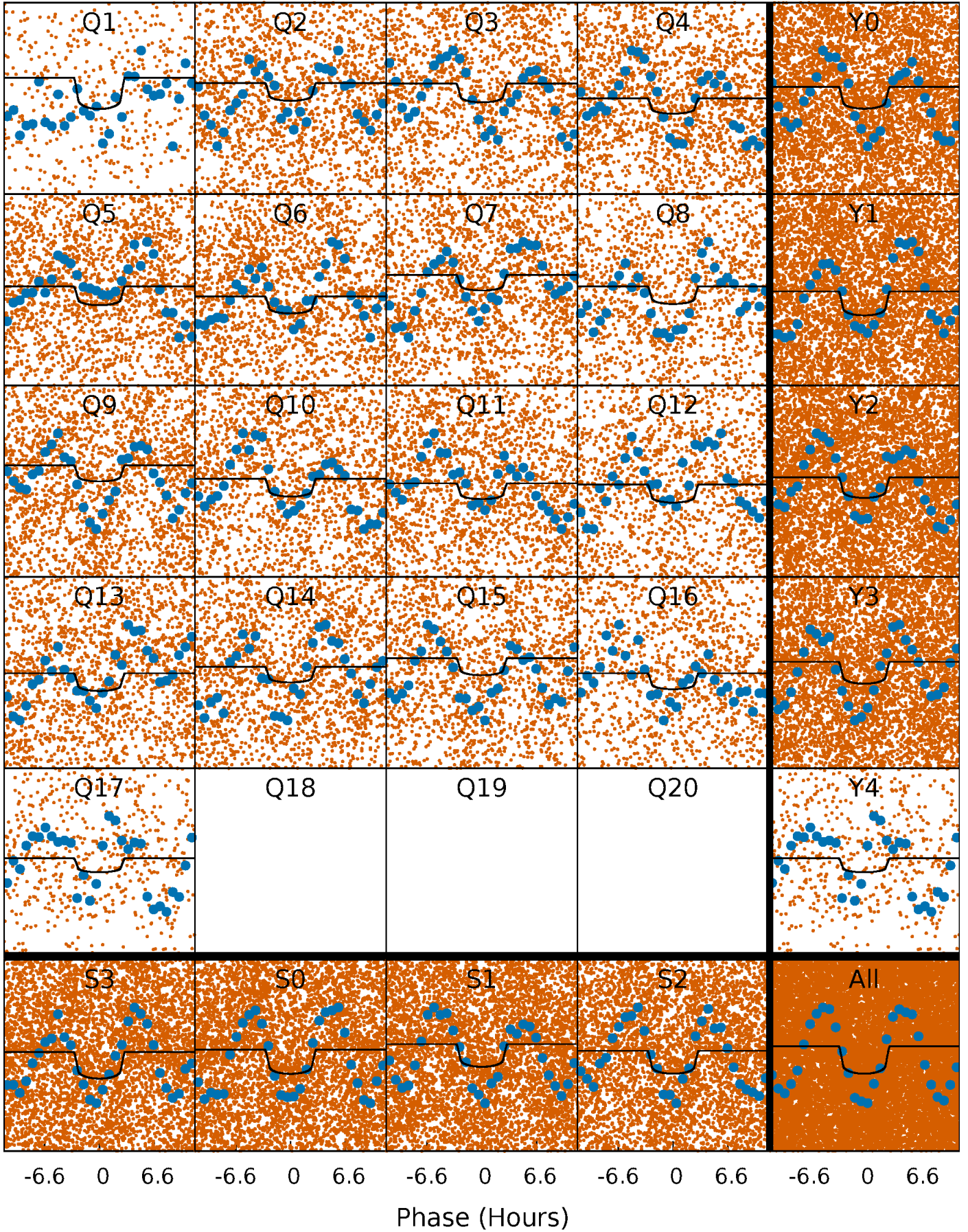
PDC Quarter-Phased Transit Curves

TCE 007798339-01 P= 1.584118 Days $T_0=132.192178$ (BKJD)



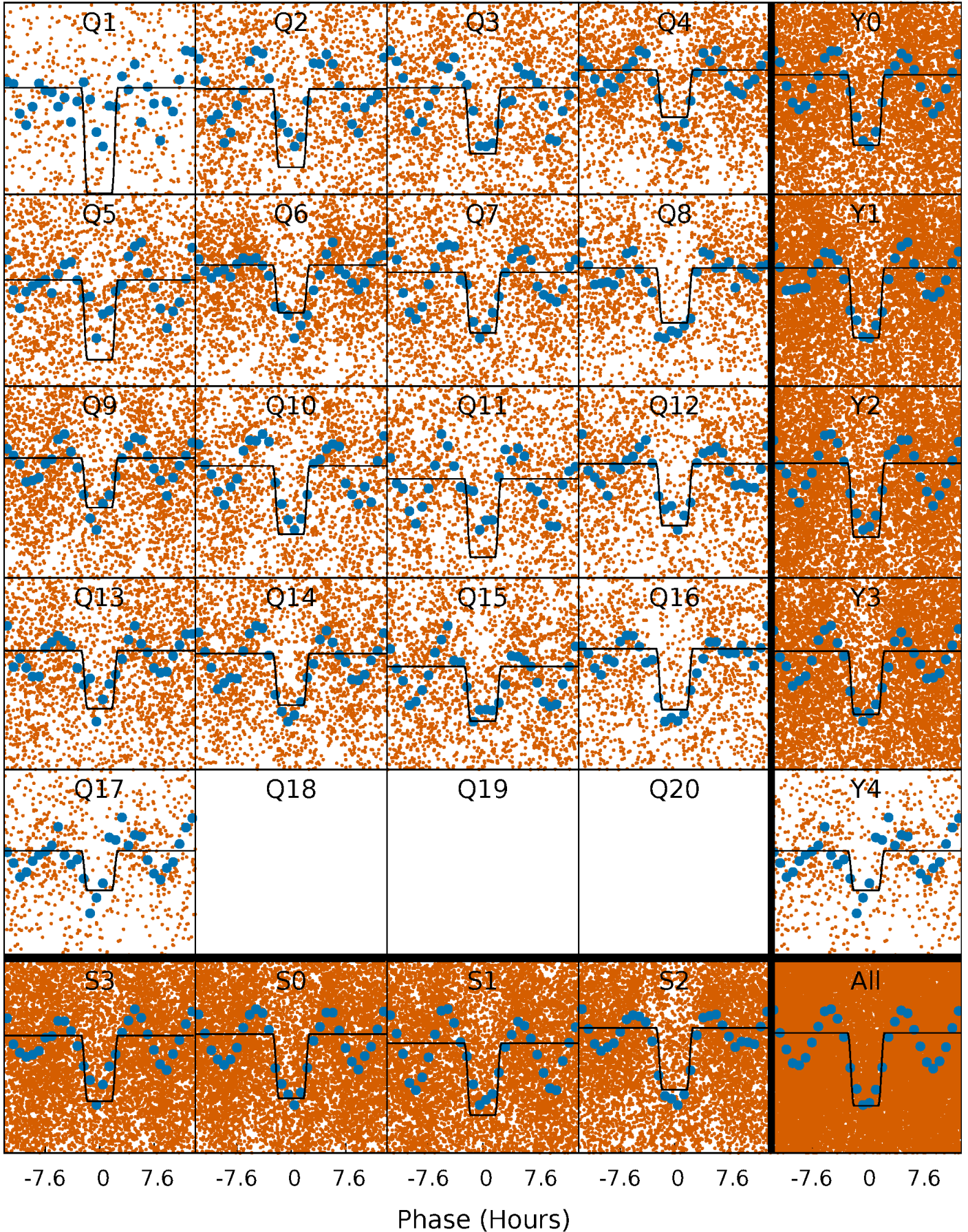
DV Quarter-Phased Transit Curves

TCE 007798339-01 P= 1.584118 Days $T_0=132.192178$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

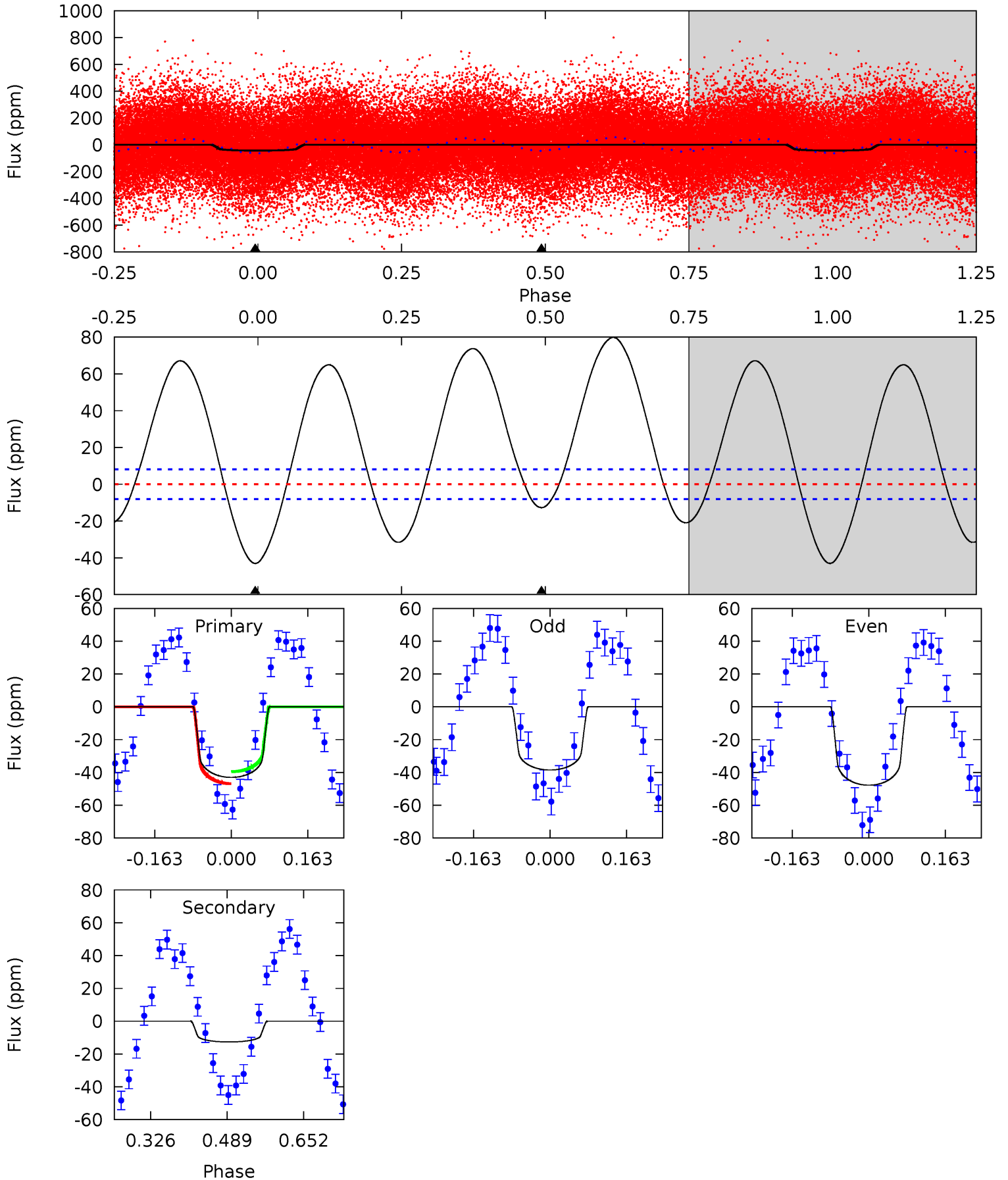
TCE 007798339-01 P= 1.584047 Days $T_0=132.218097$ (BKJD)



DV Model-Shift Uniqueness Test

007798339-01, P = 1.584118 Days, E = 130.608060 Days

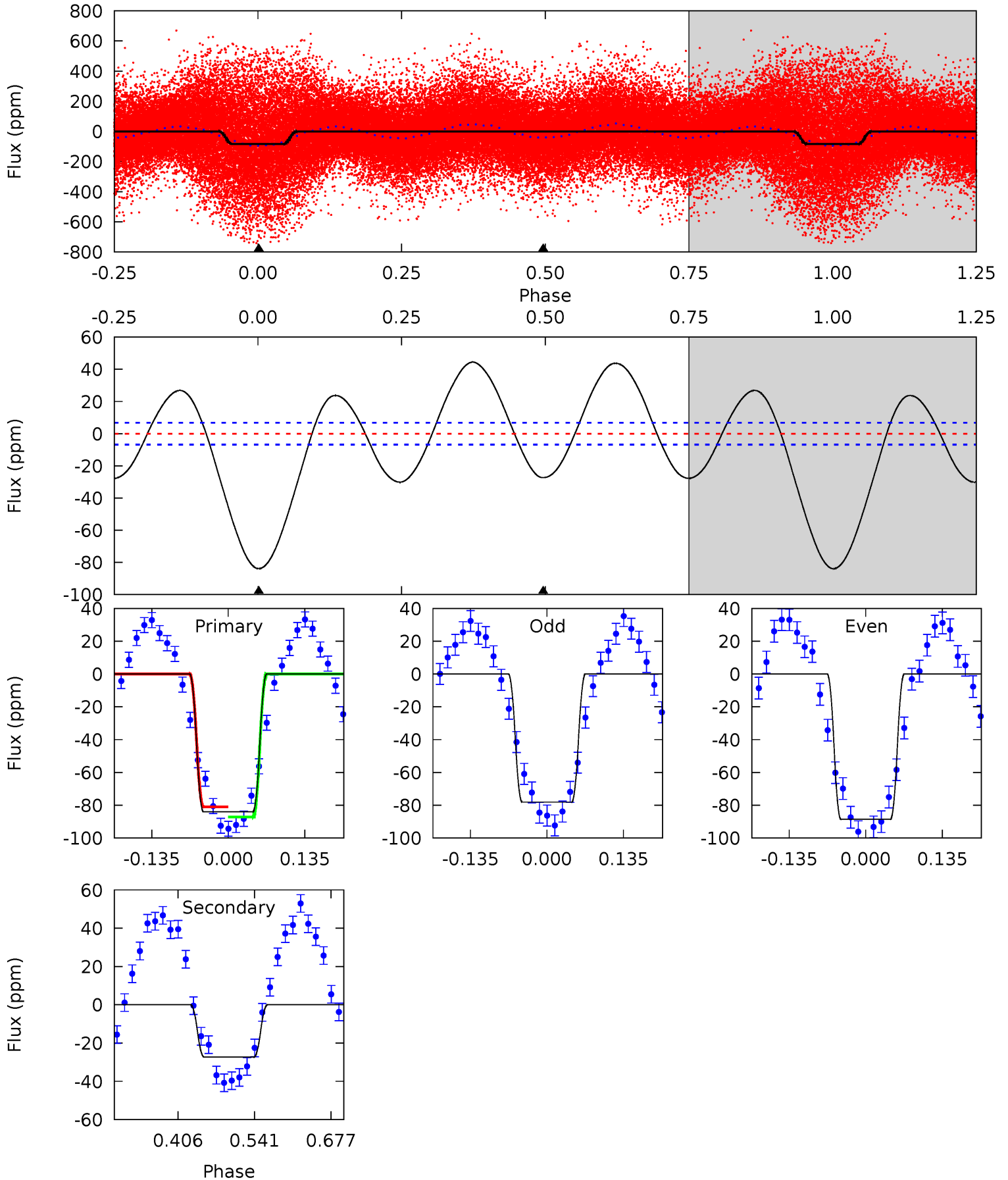
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.8	7.03	0	0	4.46	1.39	13.8	23.8	23.8	7.03	7.03	2.61	1.09	0.65	2.06



Alt Model-Shift Uniqueness Test

007798339-01, P = 1.584047 Days, E = 130.634050 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
55.3	18.0	0	0	4.50	1.49	14.6	55.3	55.3	18.0	18.0	3.45	0.95	0.35	2.03



Stellar Parameters For KIC 007798339

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6878^{+123}_{-150}	$3.906^{+0.195}_{-0.105}$	$-0.060^{+0.150}_{-0.150}$	$2.335^{+0.455}_{-0.556}$	$1.602^{+0.130}_{-0.211}$	$0.177^{+0.193}_{-0.057}$
	+2%/-2%	+5%/-3%	+250%/-250%	+19%/-24%	+8%/-13%	+109%/-32%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 007798339-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-13 ± 2	$1.42^{+0.29}_{-0.25}$	3628^{+193}_{-240}	5265^{+495}_{-399}	$3.261^{+1.704}_{-1.070}$
Alt.	-27 ± 2	$2.42^{+0.34}_{-0.36}$	3633^{+189}_{-218}	4952^{+251}_{-222}	$2.454^{+0.953}_{-0.545}$

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

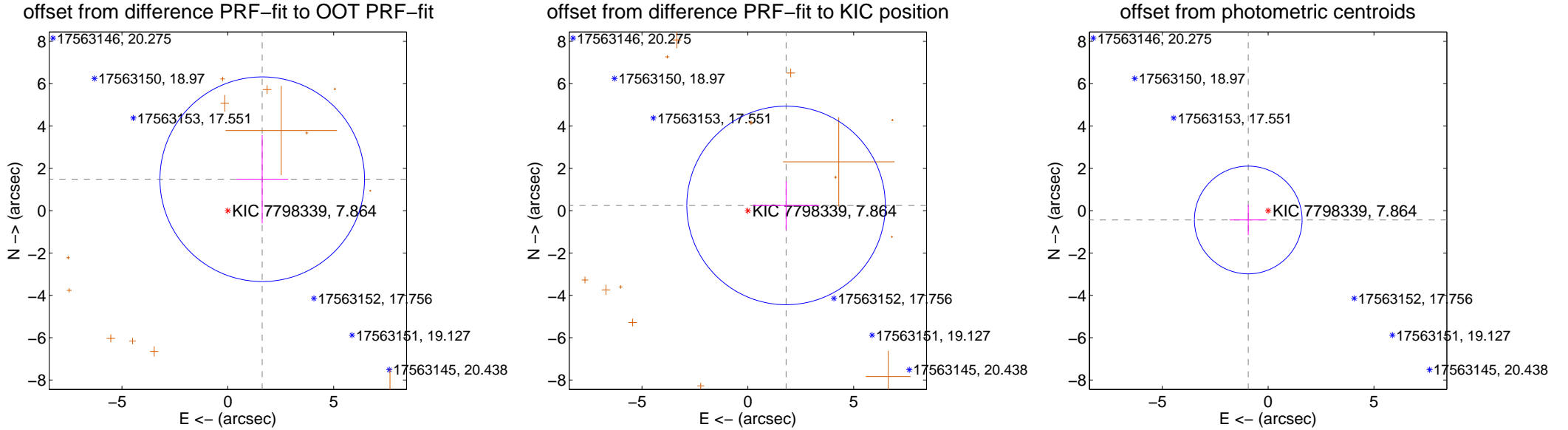
DV Centroid Data

Supplemental centroid analysis for 007798339-01. **Kepler magnitude: 7.86.** Transit SNR 8.30

There are 0 quarters with good PRF difference image offsets

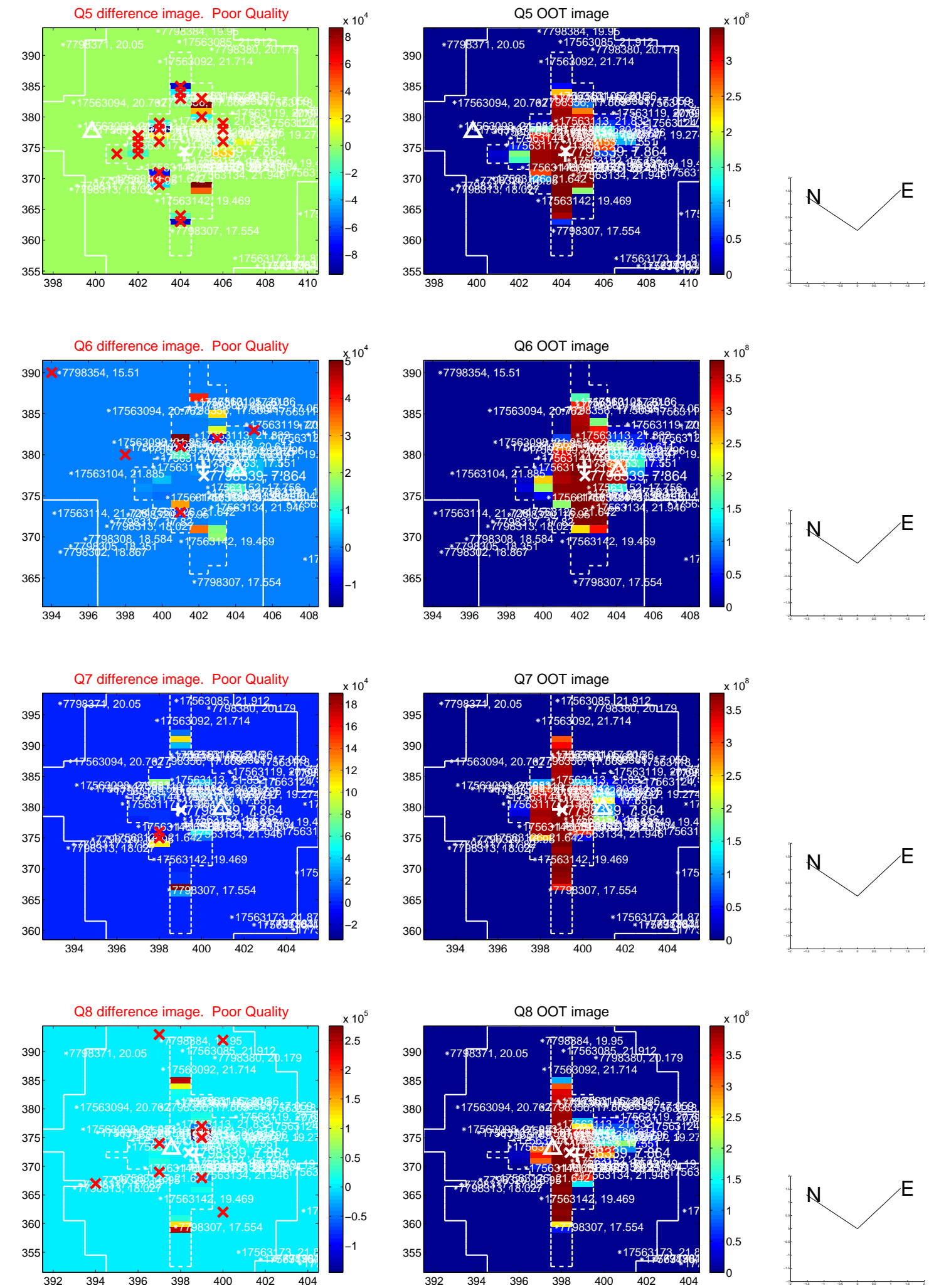
The direct PRF centroid is offset from the target star catalog position by about 1.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.204 ± 1.611	1.37	-1.626 ± 1.228	1.487 ± 2.085
PRF-fit source offset from KIC position	1.824 ± 1.563	1.17	-1.807 ± 1.570	0.247 ± 1.140
photometric centroid source offset	1.04 ± 0.85	1.22	0.94 ± 0.88	-0.44 ± 0.71

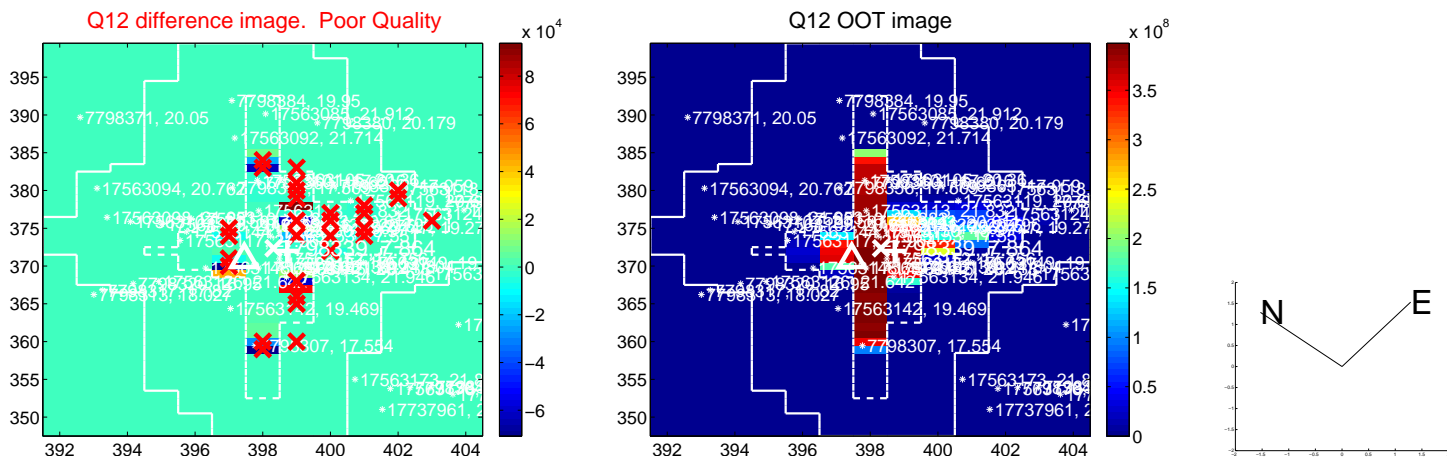
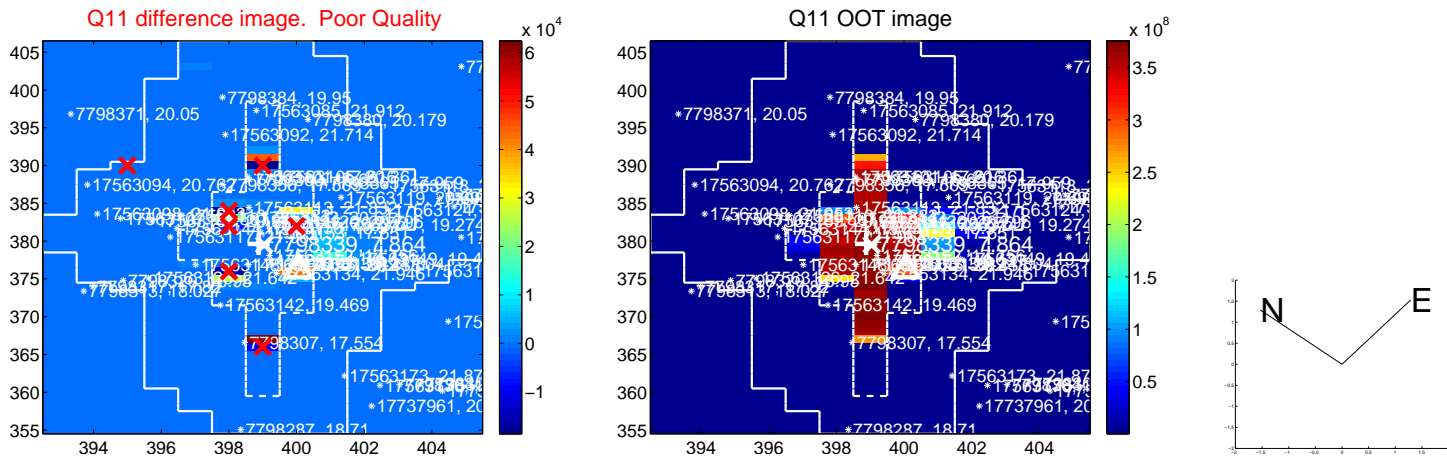
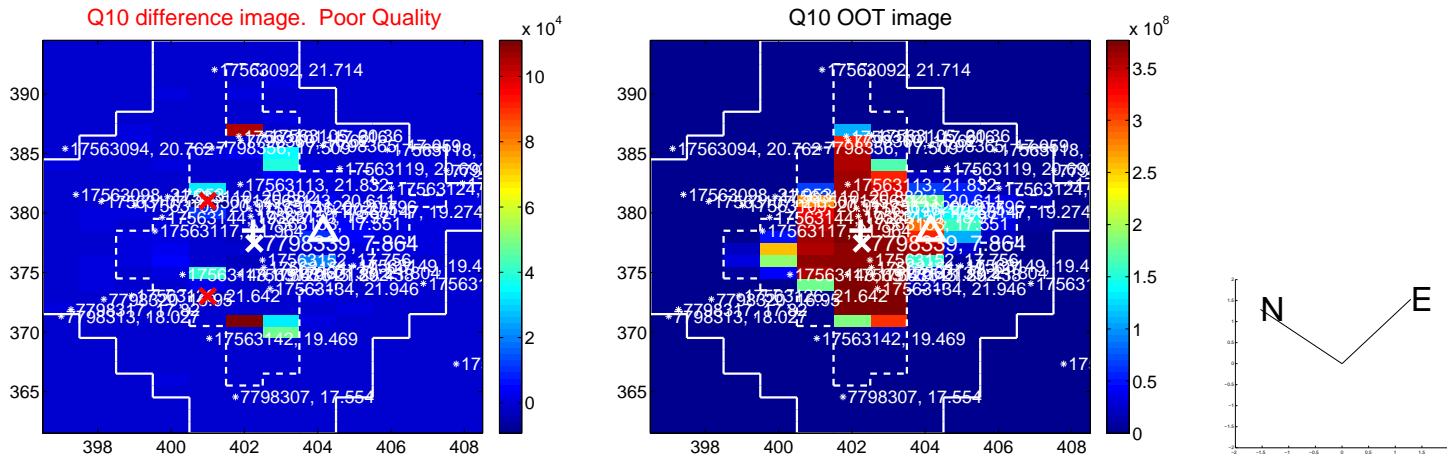
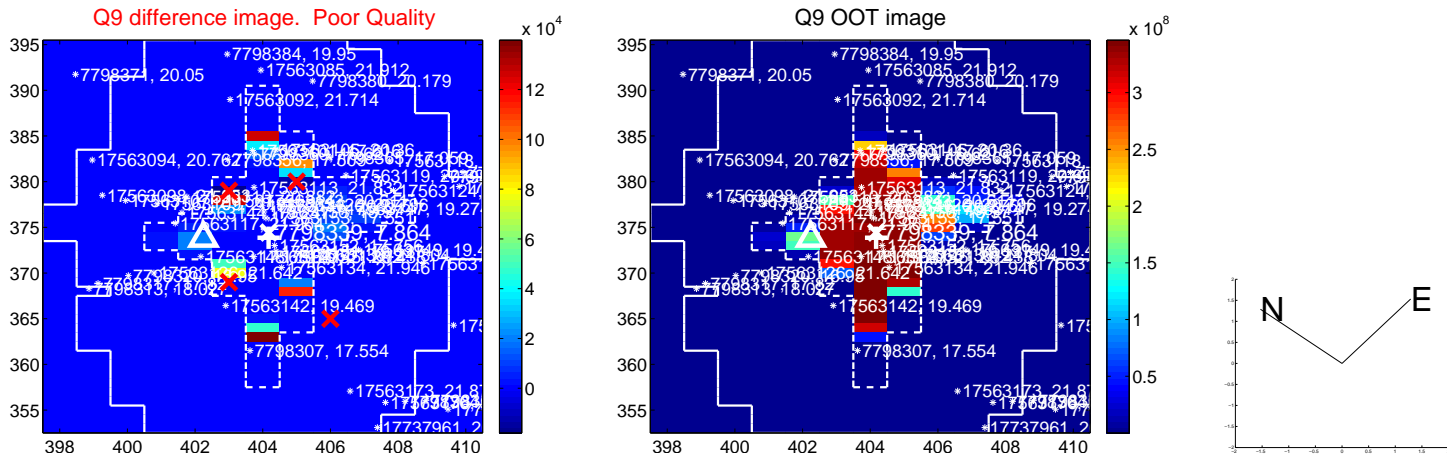


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

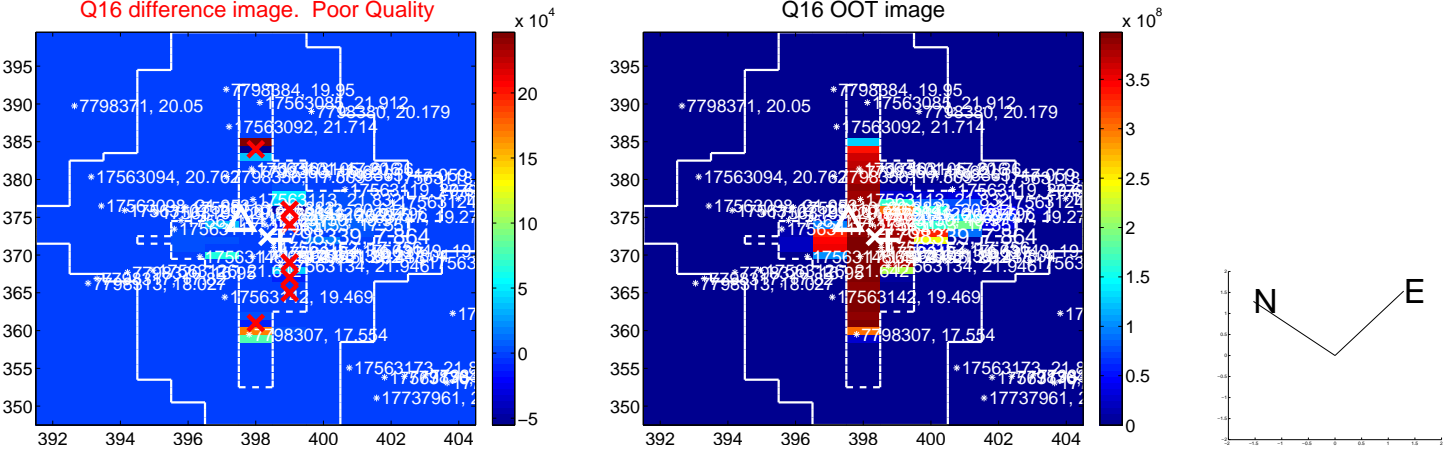
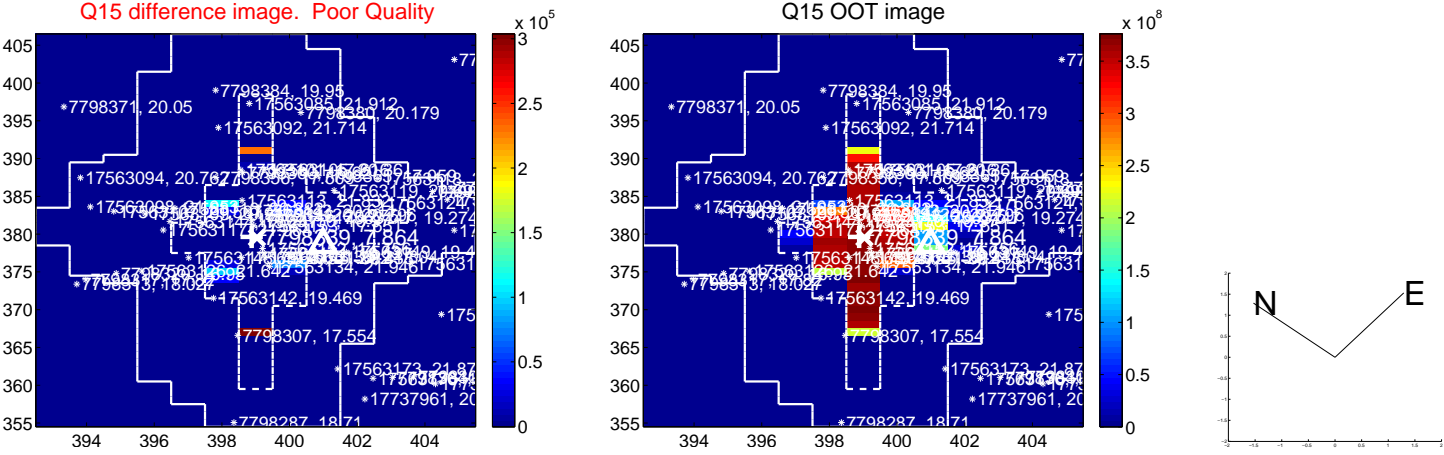
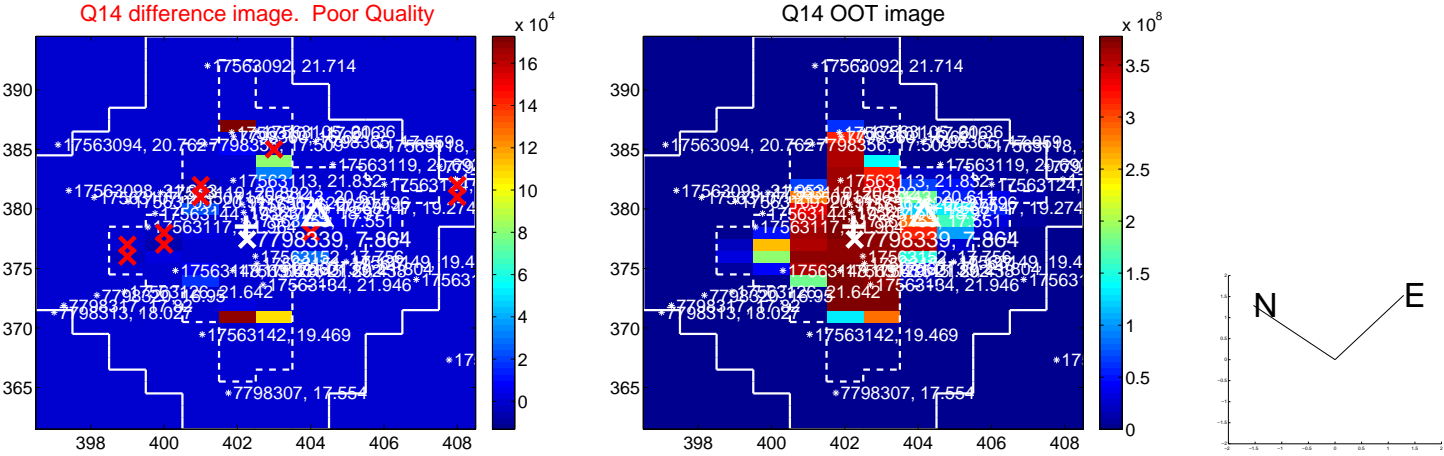
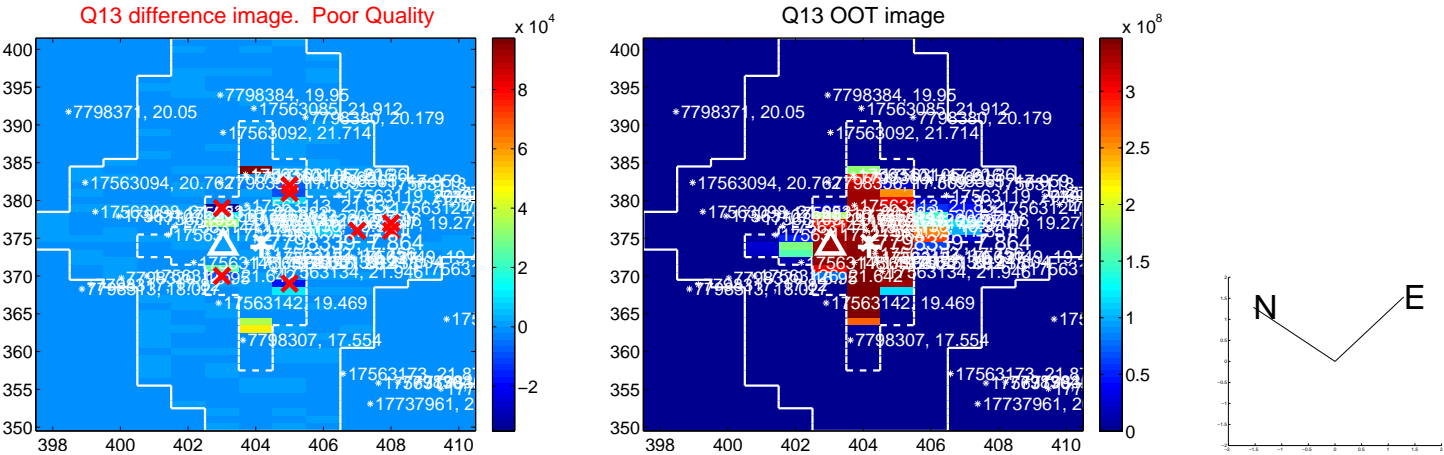
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



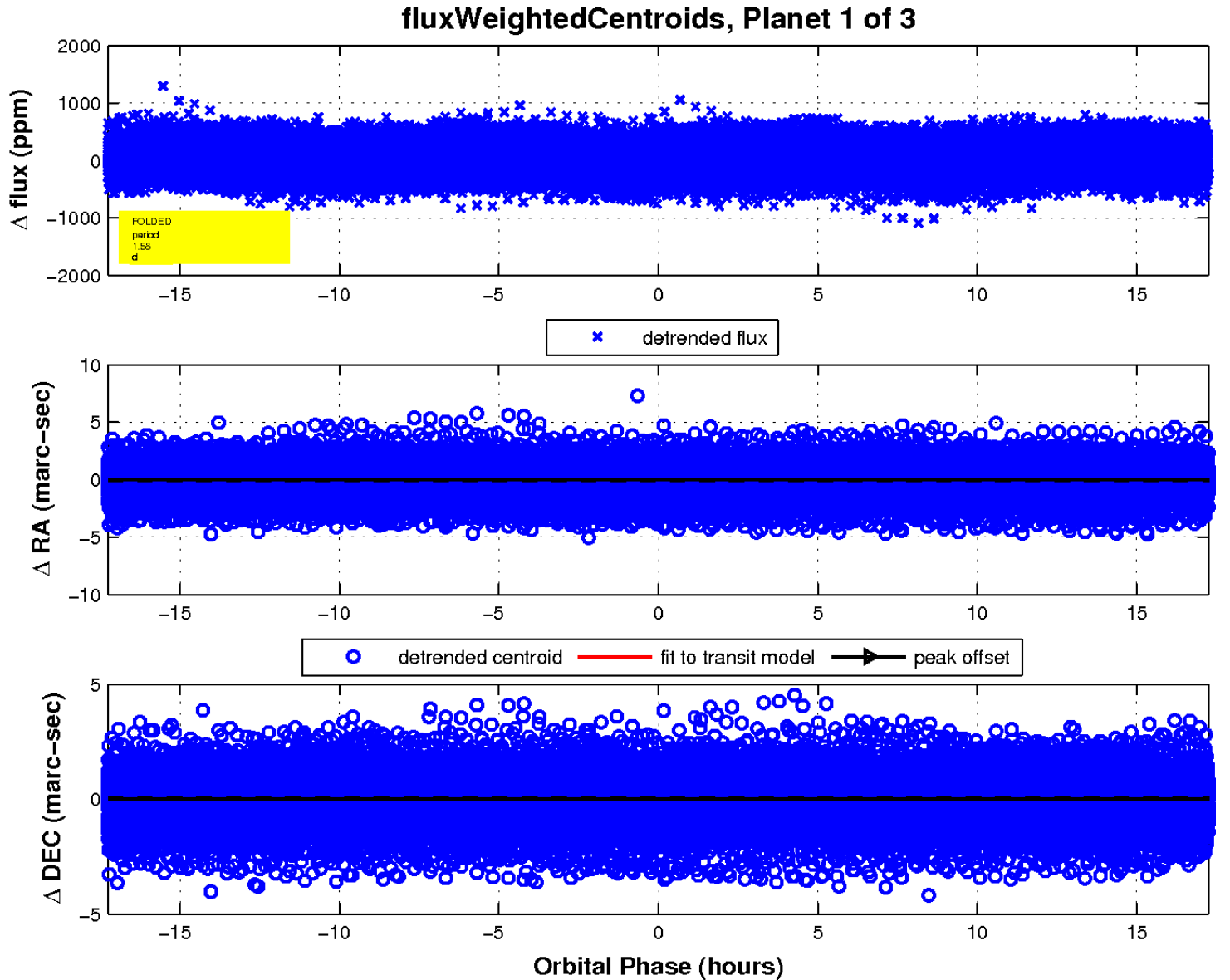
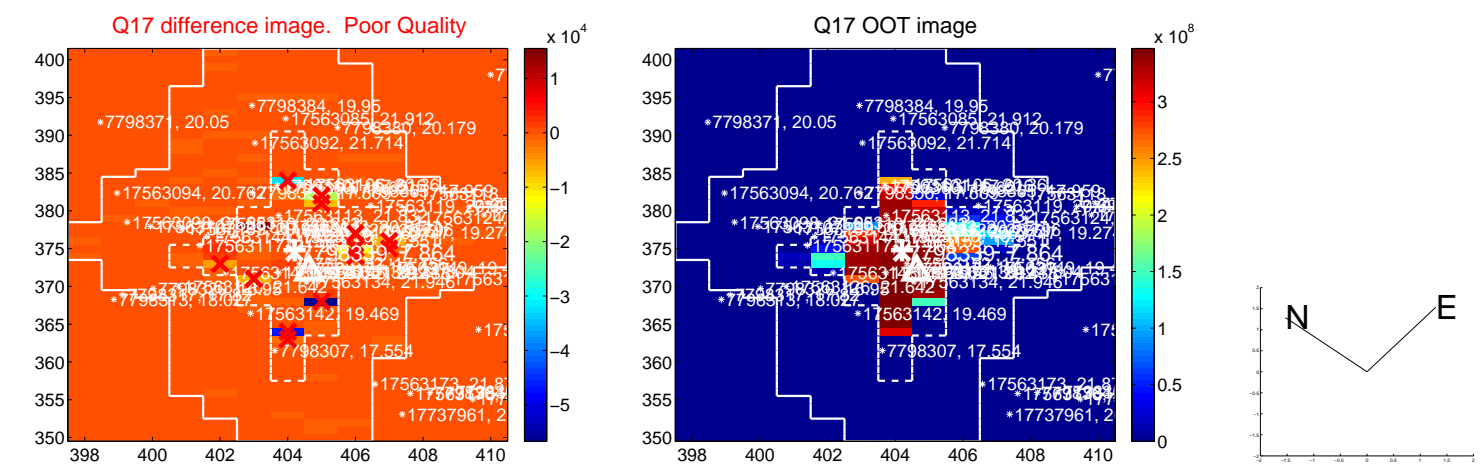
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

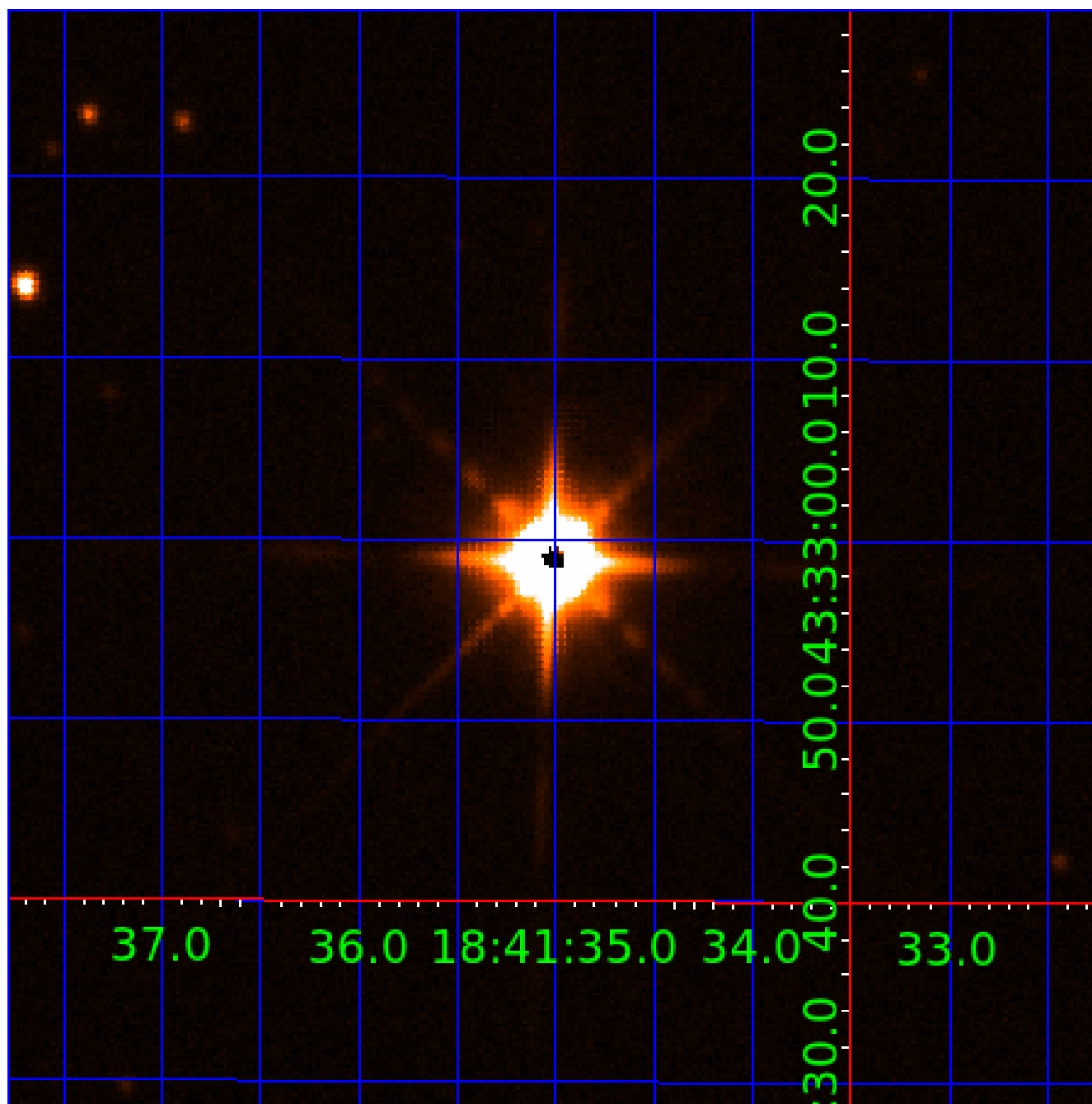


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007798339

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})
007798339-01	OBS	No	1.584118	132.192178	28.9	5.753	8.3	8.3	2.33	6878	1.47	11286.28
007798339-02	OBS	No	6.085325	131.925443	117.0	19.816	10.1	12.1	2.33	6878	3.38	1875.96
007798339-03	OBS	No	1.926976	132.464978	84.1	23.124	10.0	14.7	2.33	6878	2.29	8691.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007798339-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007798339-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007798339-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—CENT_SATURATED

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

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

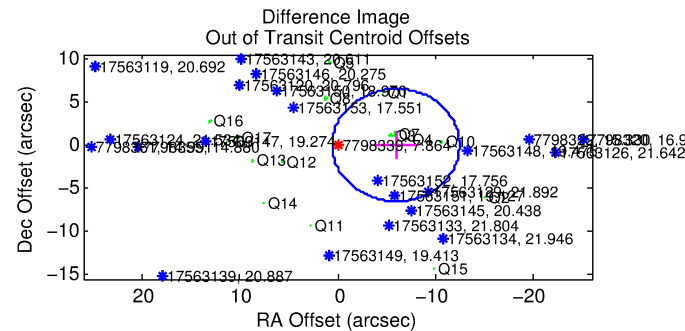
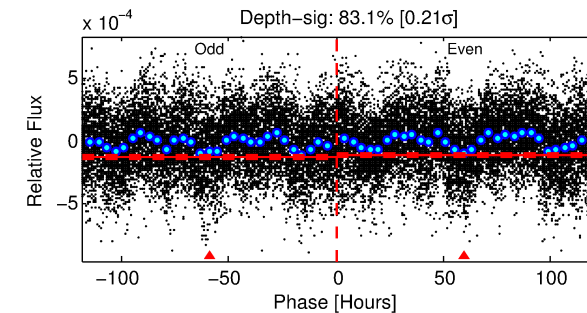
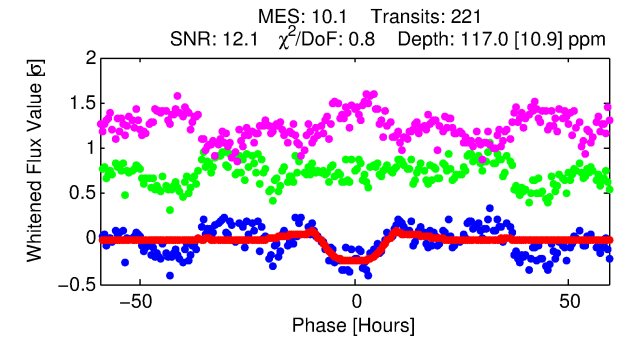
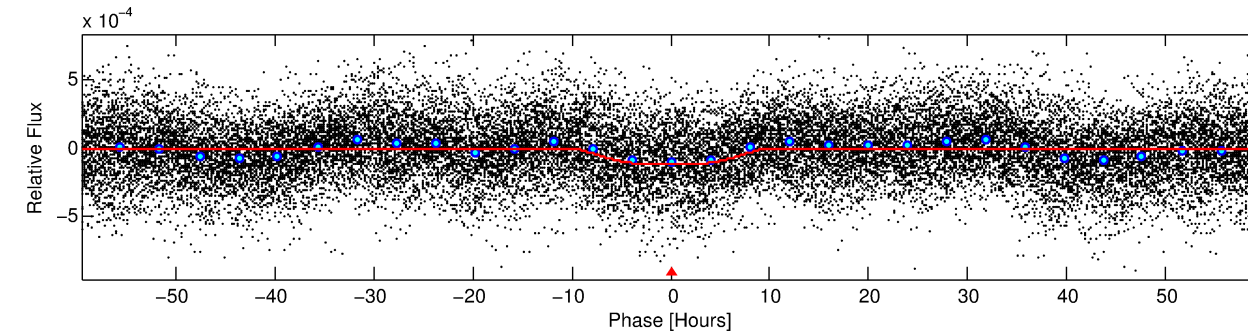
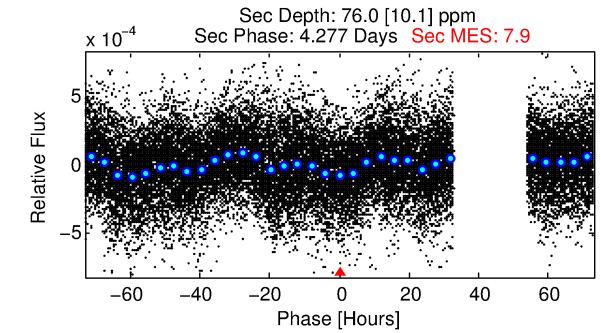
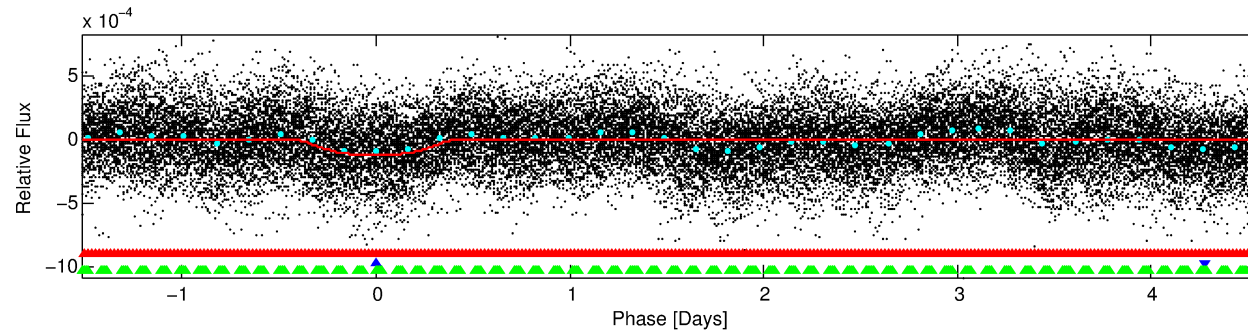
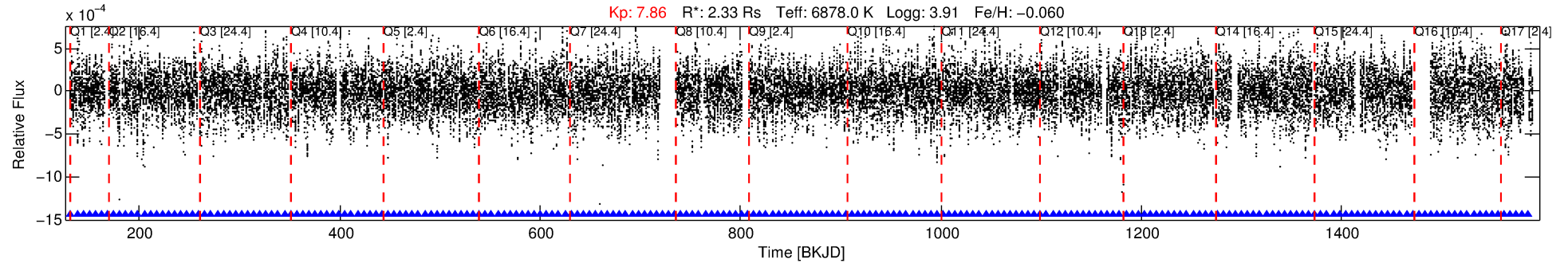
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007798339-02

No Significant Match Found

DV One-Page Summary

KIC: 7798339 Candidate: 2 of 3 Period: 6.085 d



DV Fit Results:

Period = 6.08533 [0.00020] d
Epoch = 131.9254 [0.0264] BKJD
Rp/R* = 0.0133 [0.0007]
a/R* = 1.14 [0.02]
b = 0.98 [0.00]
Seff = 1875.96 [656.35]
Teq = 1678 [147] K
Rp = 3.38 [0.83] Re
a = 0.0763 [0.0167] AU
Ag = 21.36 [8.13] [2.50σ]
Teff = 5578 [271] K [12.67σ]

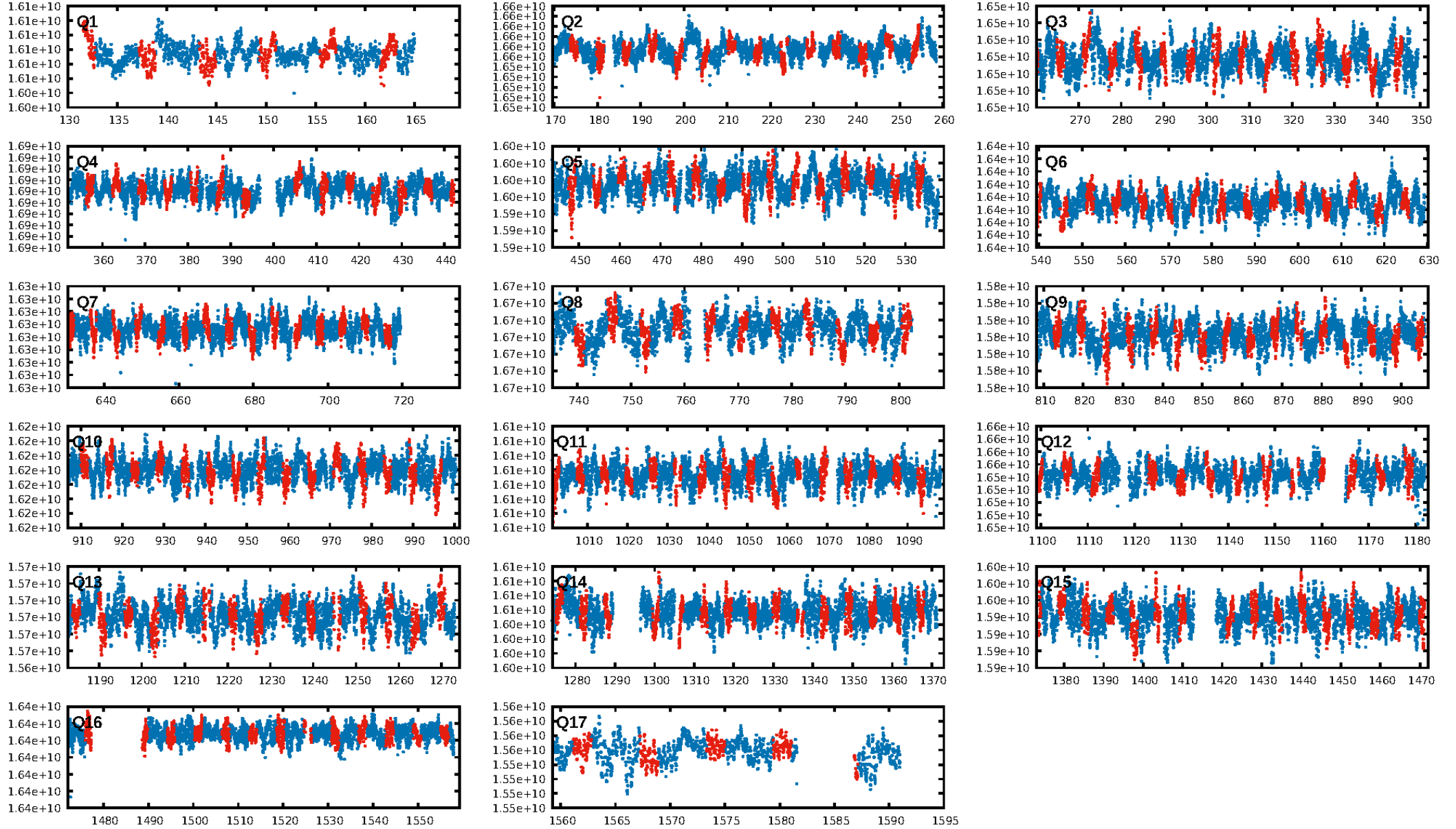
DV Diagnostic Results:

ShortPeriod-sig: 99.9% [3.28σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [211/211]
GhostDiagnostic-chr: N/A
Centroid-sig: 19.6%
Centroid-so: 1.087 arcsec [2.05σ]
OotOffset-rm: 5.945 arcsec [2.74σ]
KicOffset-rm: 6.607 arcsec [3.13σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-st: 3/4/4/5 [16]
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DiffImageOverlap-fno: 0.00 [0/17]

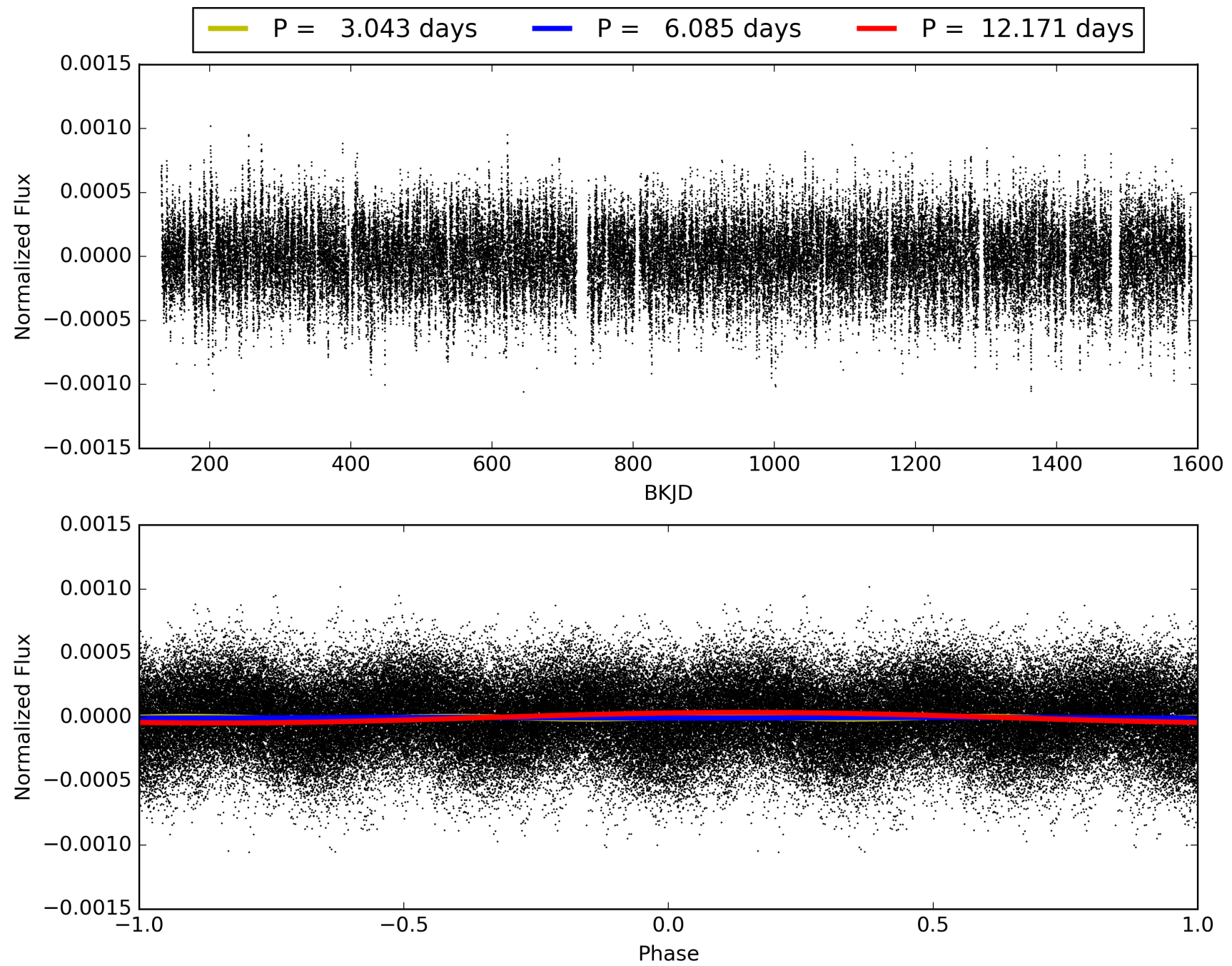
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:58:26 Z

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

TCE 007798339-02, PDC Light Curves

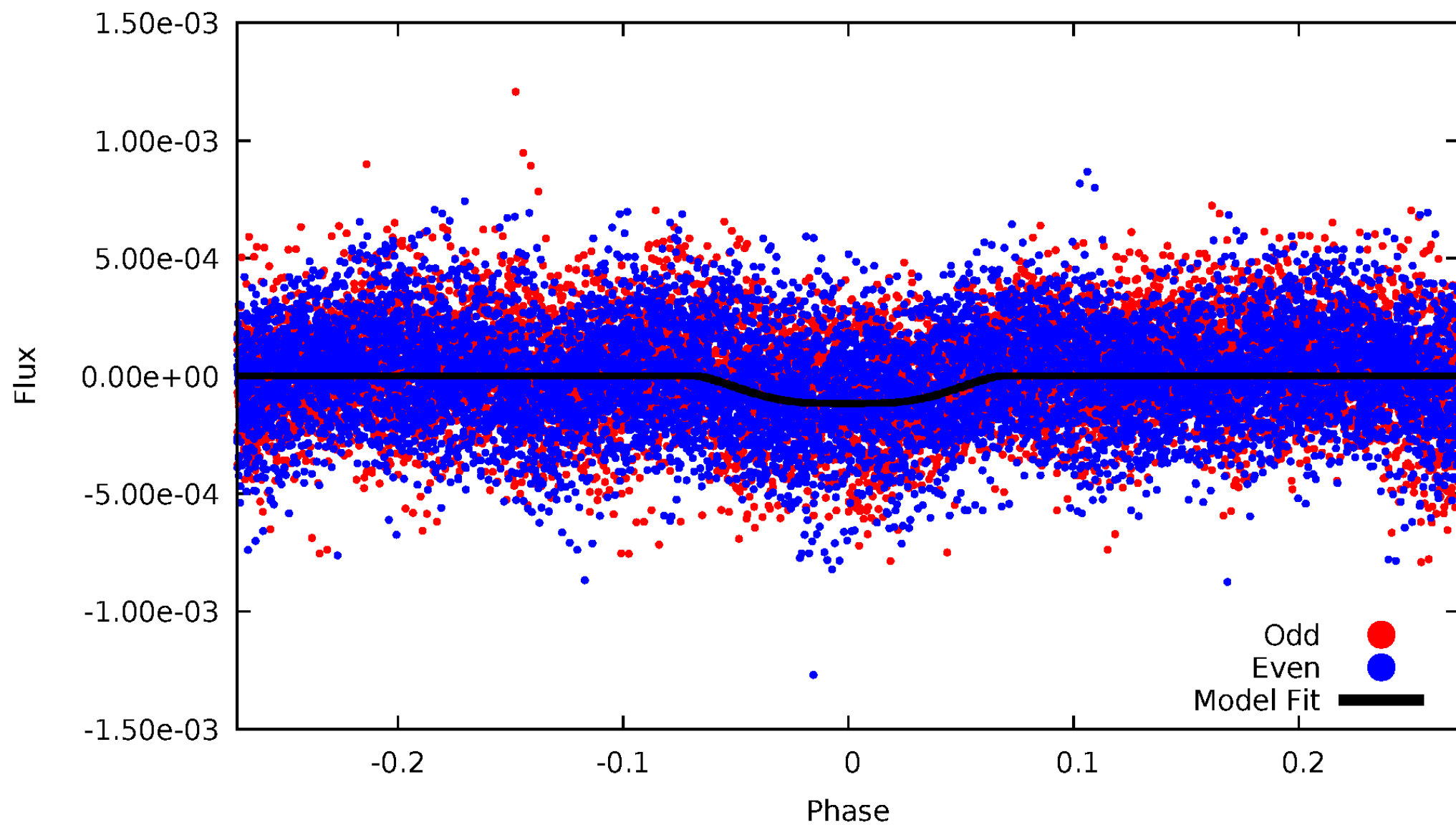


TCE 007798339-02



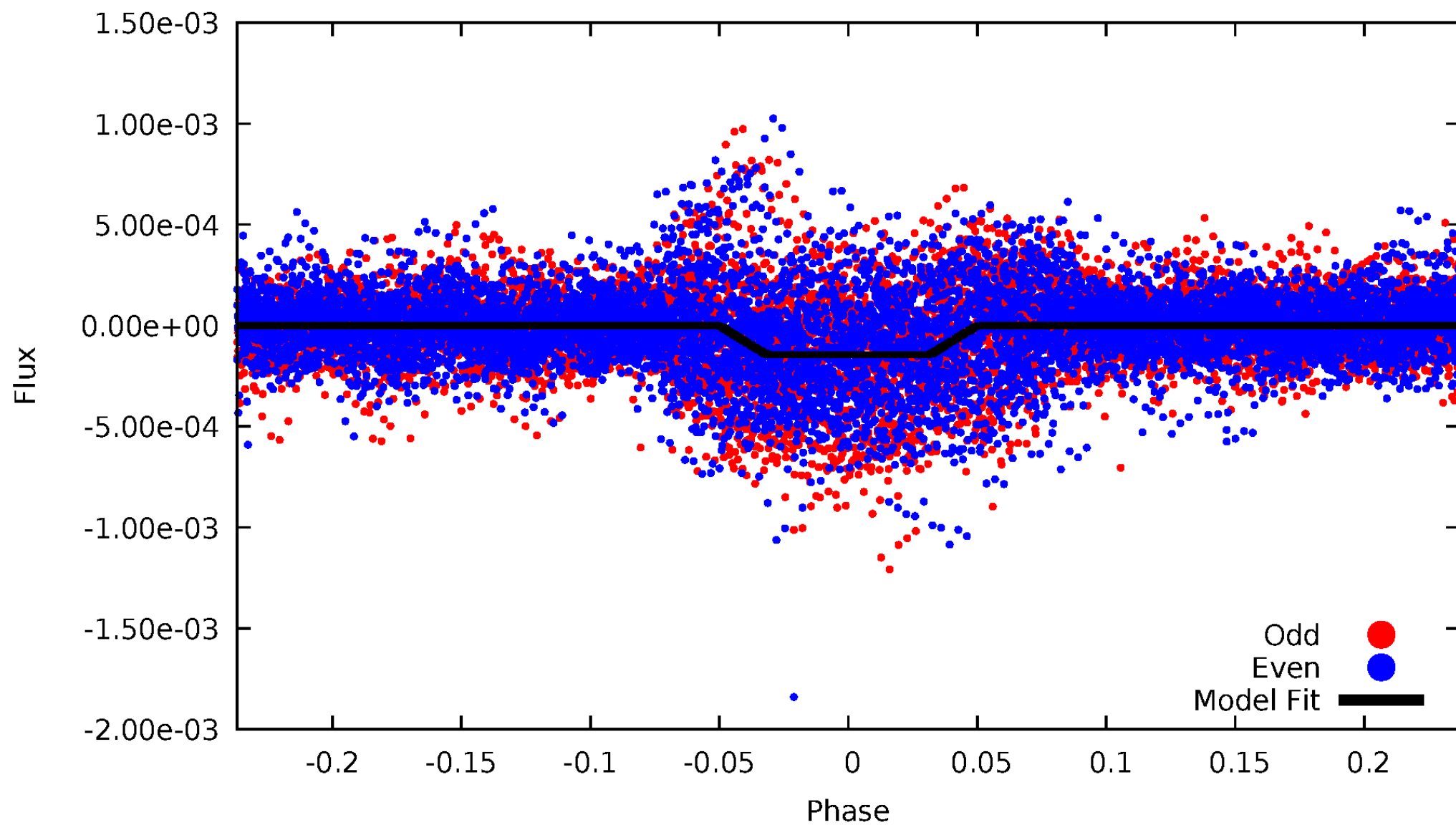
DV Odd/Even

TCE 007798339-02



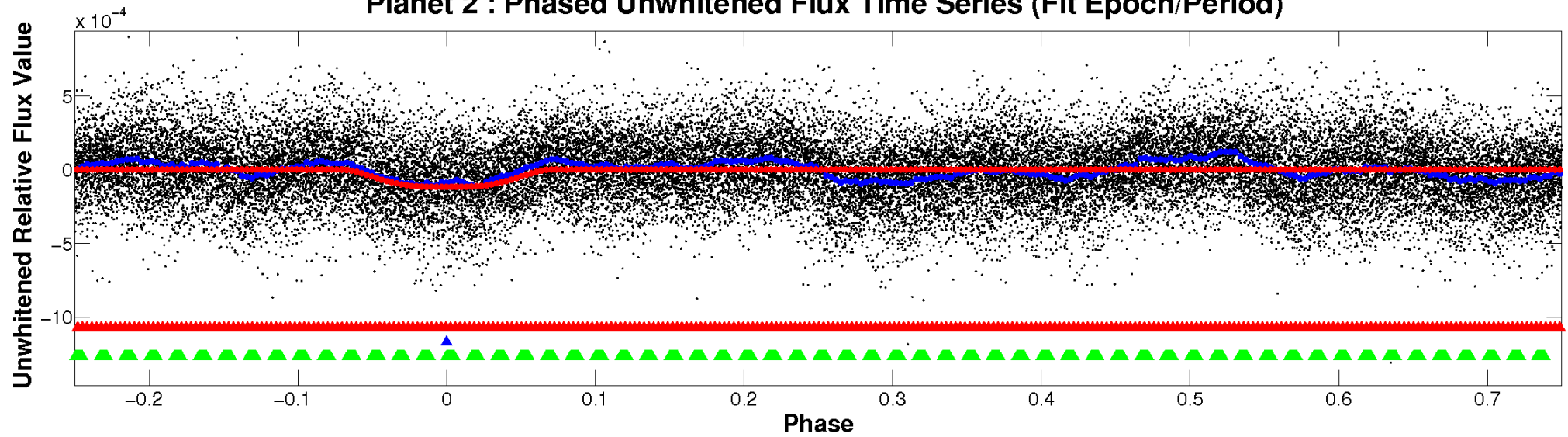
ALT Odd/Even

TCE 007798339-02

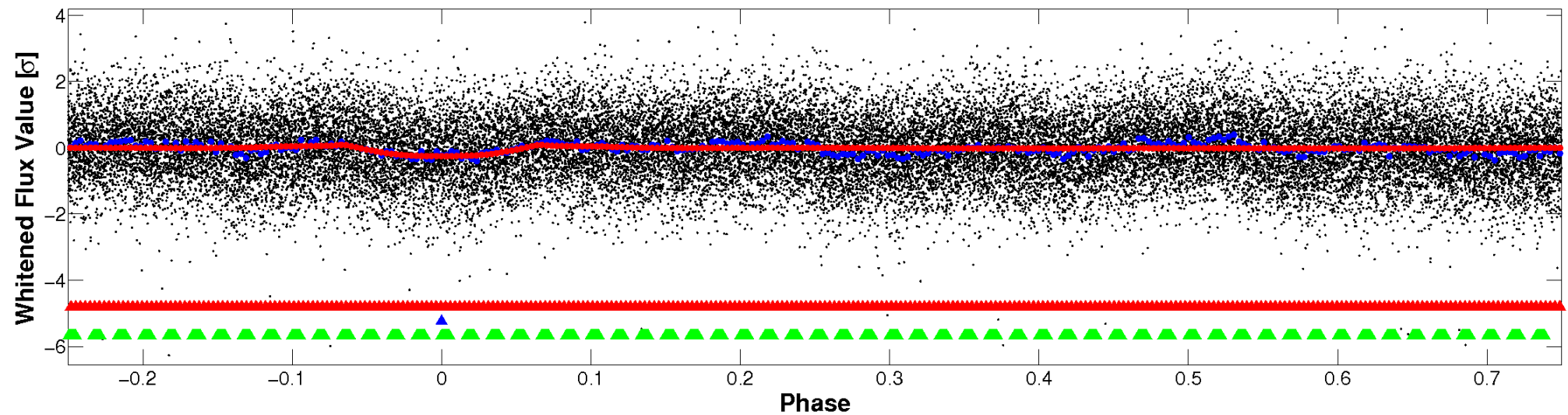


Non-Whitened Vs. Whitened Light Curve

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

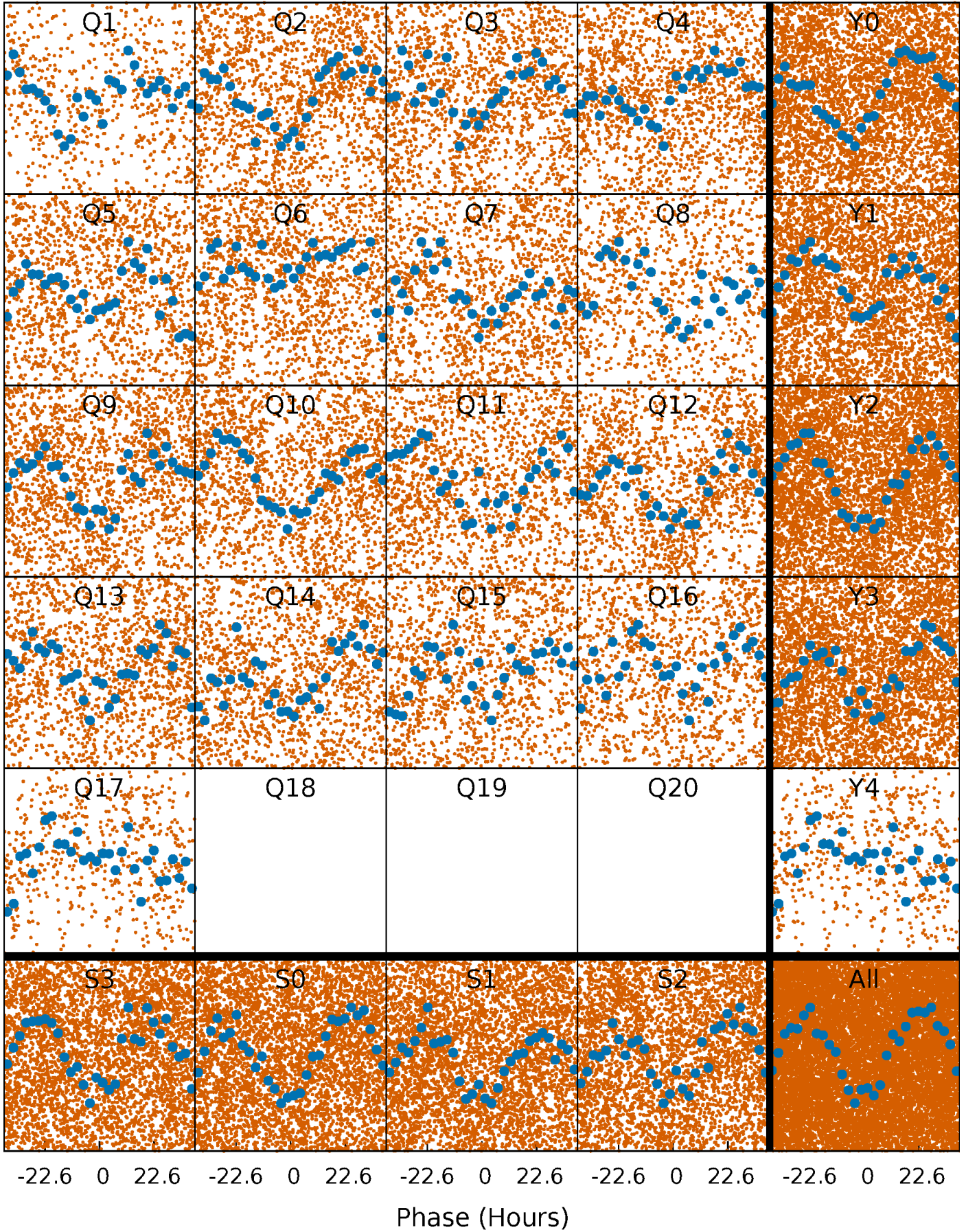


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



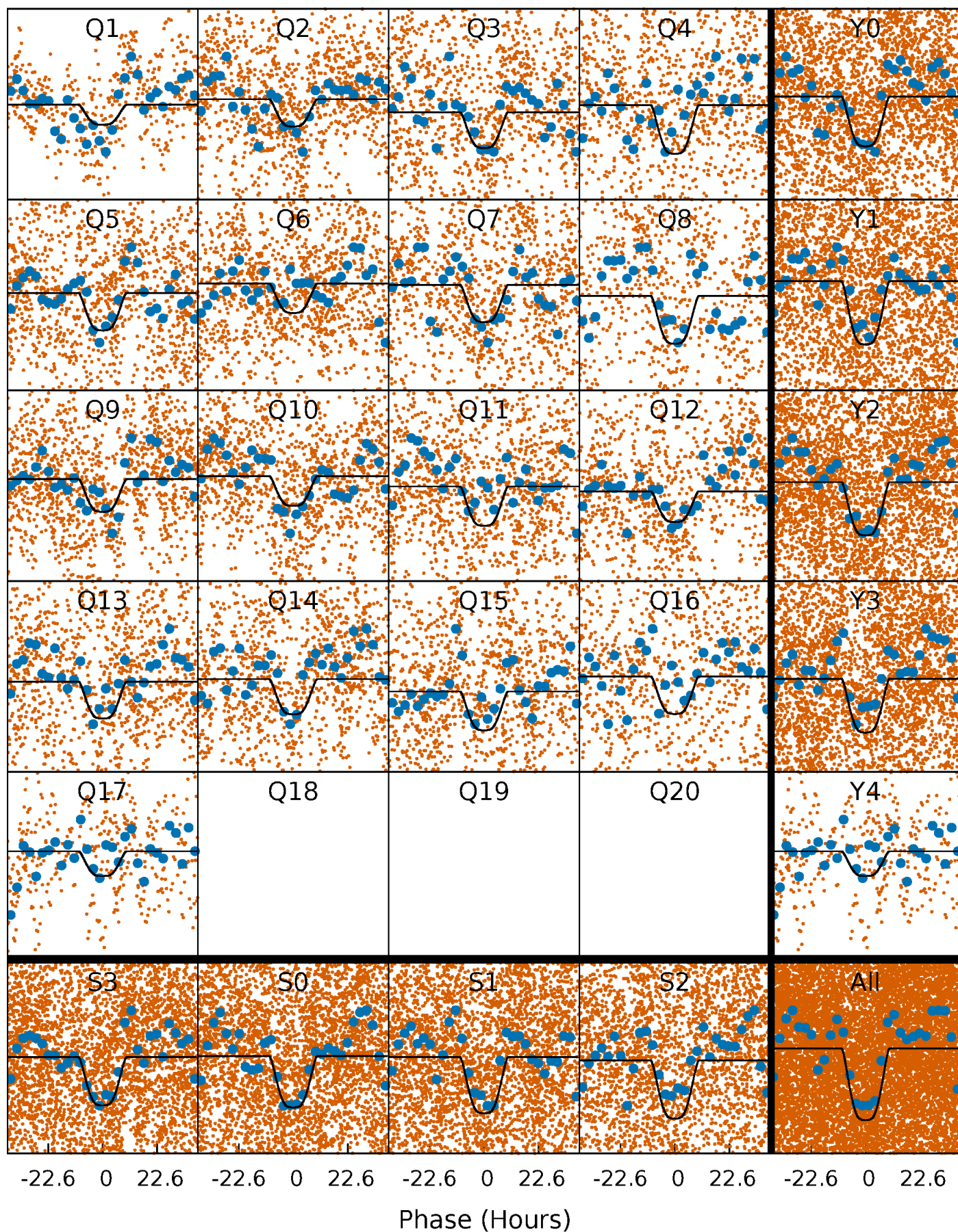
PDC Quarter-Phased Transit Curves

TCE 007798339-02 P= 6.085325 Days $T_0=131.925443$ (BKJD)



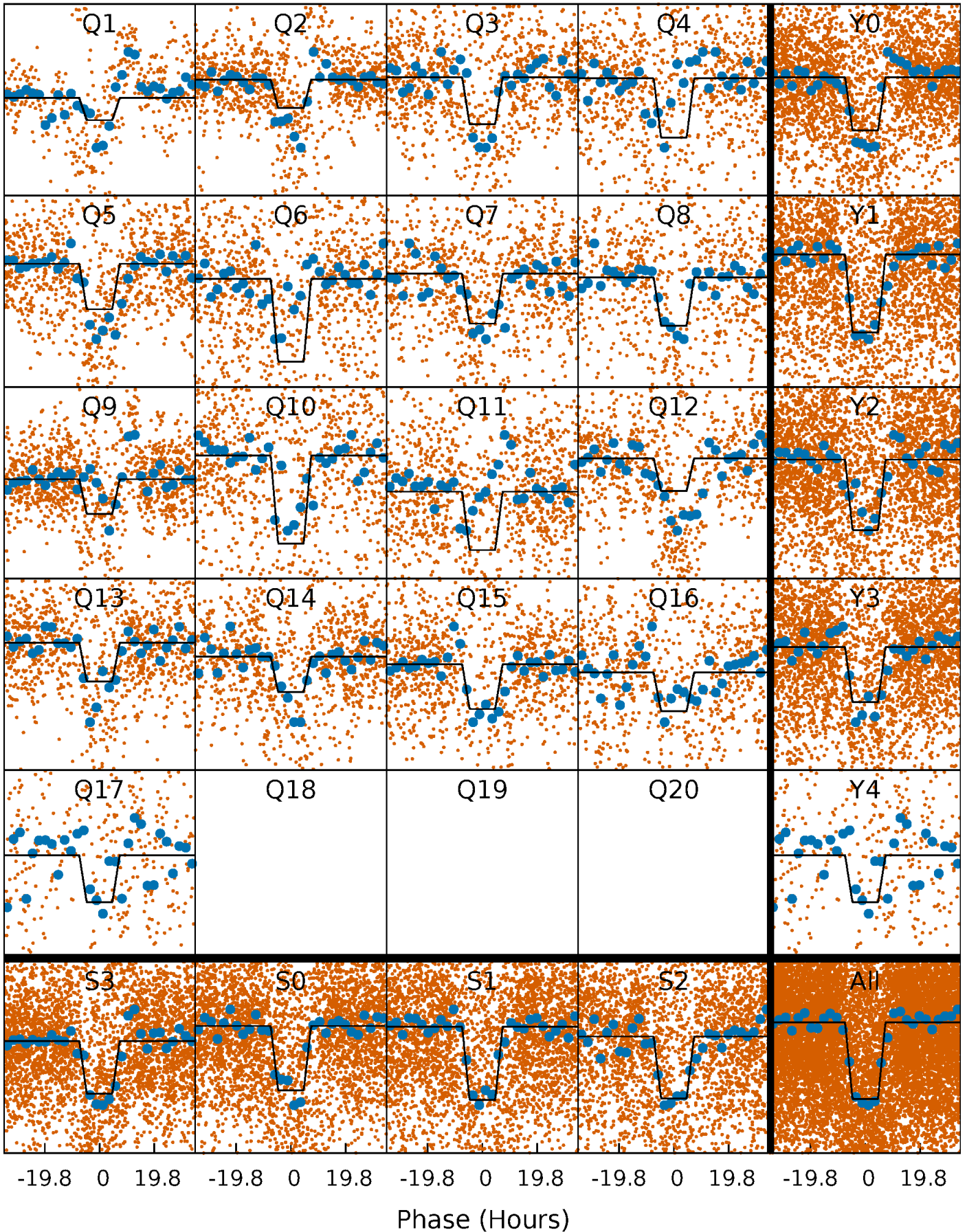
DV Quarter-Phased Transit Curves

TCE 007798339-02 P= 6.085325 Days $T_0=131.925443$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

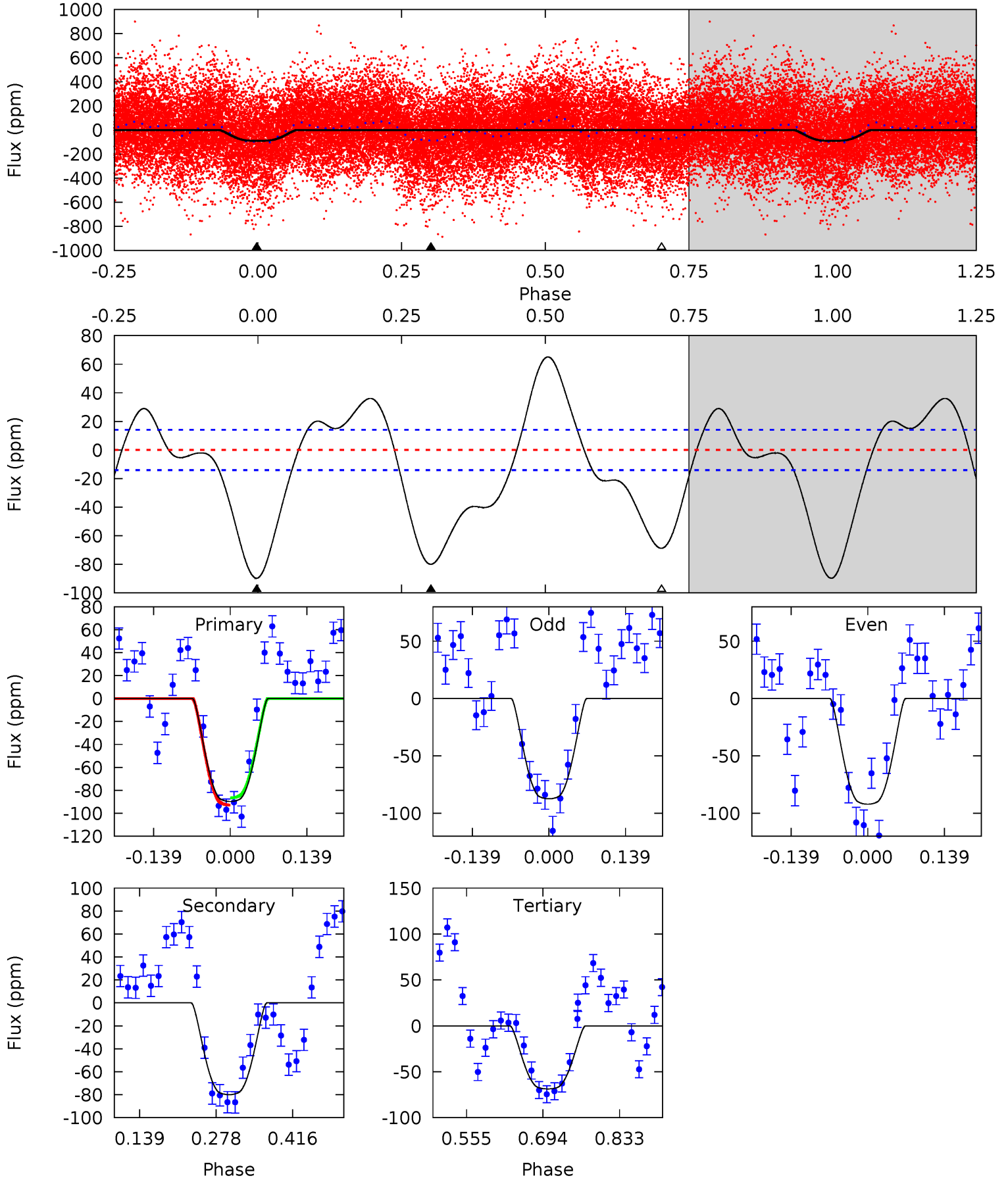
TCE 007798339-02 P= 6.084820 Days $T_0=131.963994$ (BKJD)



DV Model-Shift Uniqueness Test

007798339-02, P = 6.085325 Days, E = 125.840118 Days

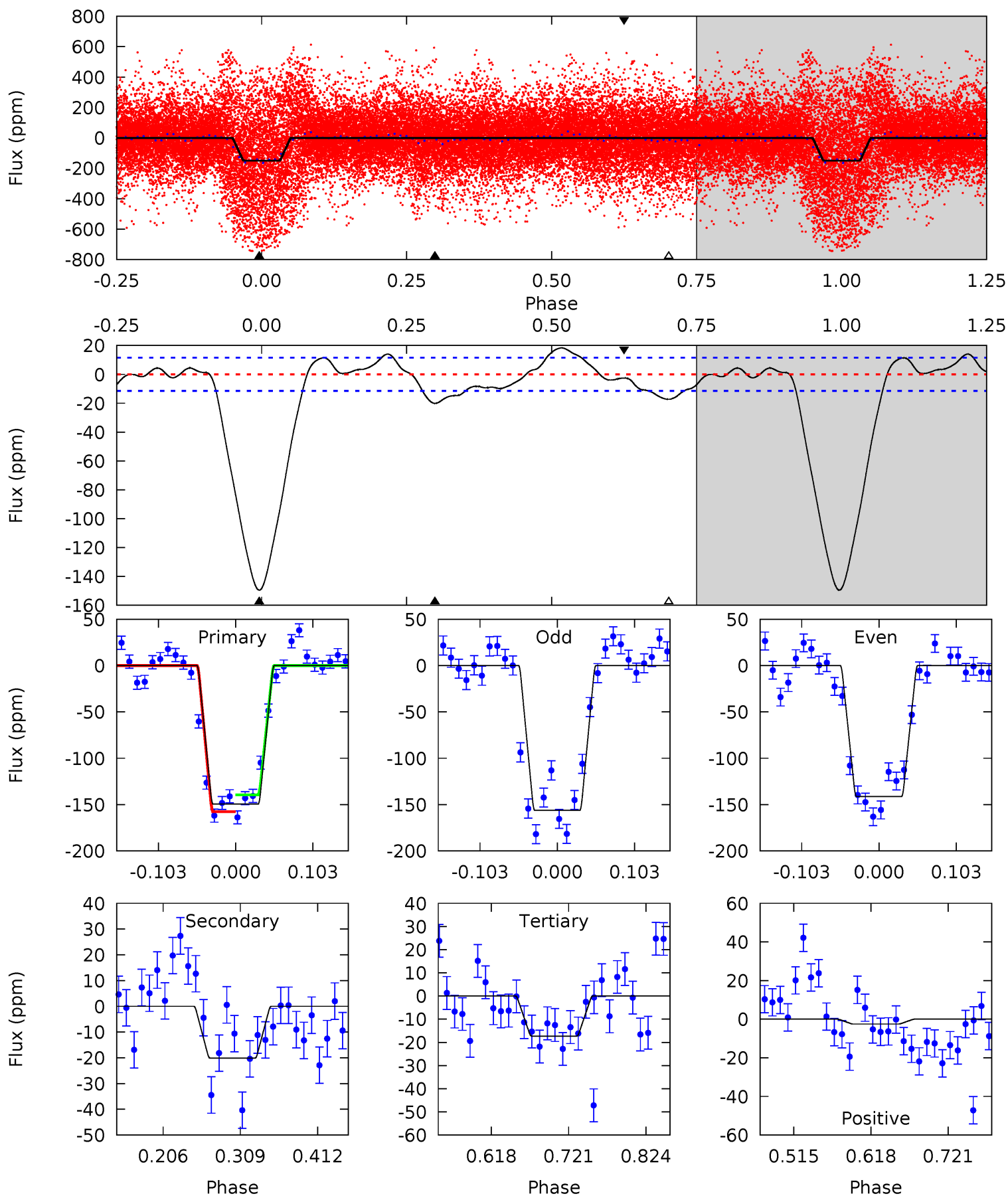
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
28.6	25.5	21.9	0	4.50	1.48	11.6	6.69	28.6	3.57	25.5	0.76	0.82	0.42	1.03



Alt Model-Shift Uniqueness Test

007798339-02, P = 6.084820 Days, E = 125.879174 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
59.1	7.95	6.84	-1.00	4.56	1.63	3.42	52.3	60.1	1.11	8.95	2.92	0.53	0.11	3.53



Stellar Parameters For KIC 007798339

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6878^{+123}_{-150}	$3.906^{+0.195}_{-0.105}$	$-0.060^{+0.150}_{-0.150}$	$2.335^{+0.455}_{-0.556}$	$1.602^{+0.130}_{-0.211}$	$0.177^{+0.193}_{-0.057}$
	+2%/-2%	+5%/-3%	+250%/-250%	+19%/-24%	+8%/-13%	+109%/-32%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 007798339-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-80 ± 3	$3.27^{+0.41}_{-0.42}$	2314^{+122}_{-143}	5626^{+180}_{-188}	24^{+7}_{-5}
Alt.	-20 ± 3	$2.99^{+0.37}_{-0.40}$	2321^{+128}_{-143}	4365^{+158}_{-172}	$7.200^{+2.385}_{-1.664}$

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

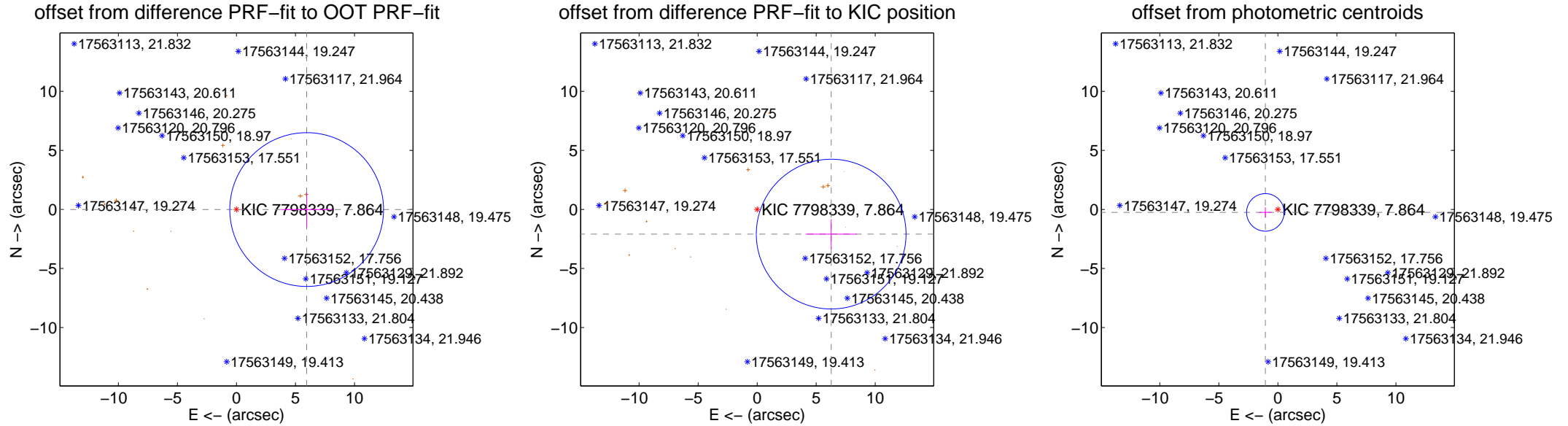
DV Centroid Data

Supplemental centroid analysis for 007798339-02. **Kepler magnitude: 7.86.** Transit SNR 12.06

There are 0 quarters with good PRF difference image offsets

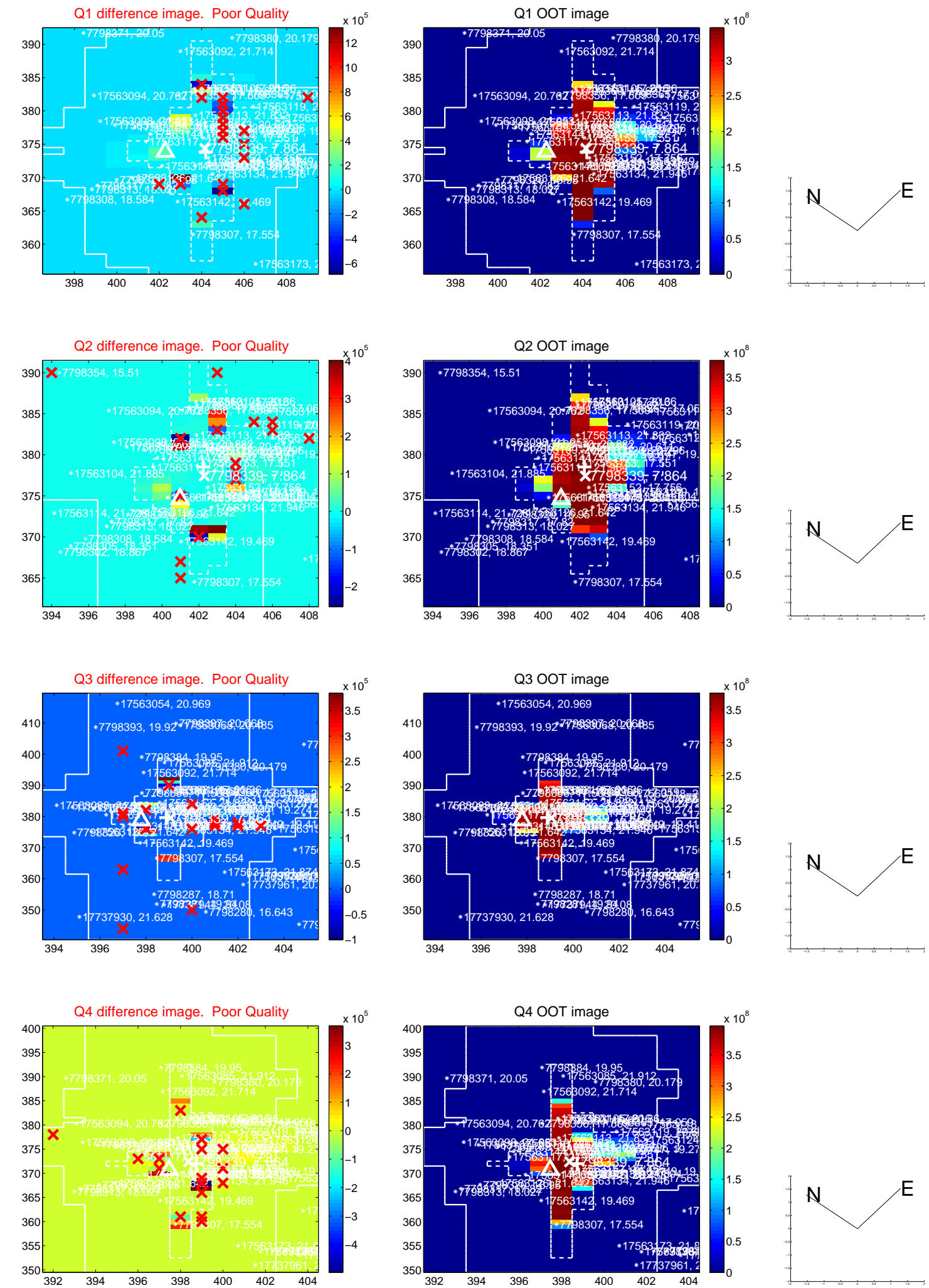
The direct PRF centroid is offset from the target star catalog position by about 1.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.945 ± 2.170	2.74	-5.945 ± 2.169	-0.011 ± 1.463
PRF-fit source offset from KIC position	6.607 ± 2.113	3.13	-6.267 ± 2.160	-2.090 ± 1.260
photometric centroid source offset	1.09 ± 0.53	2.05	1.06 ± 0.53	-0.25 ± 0.43

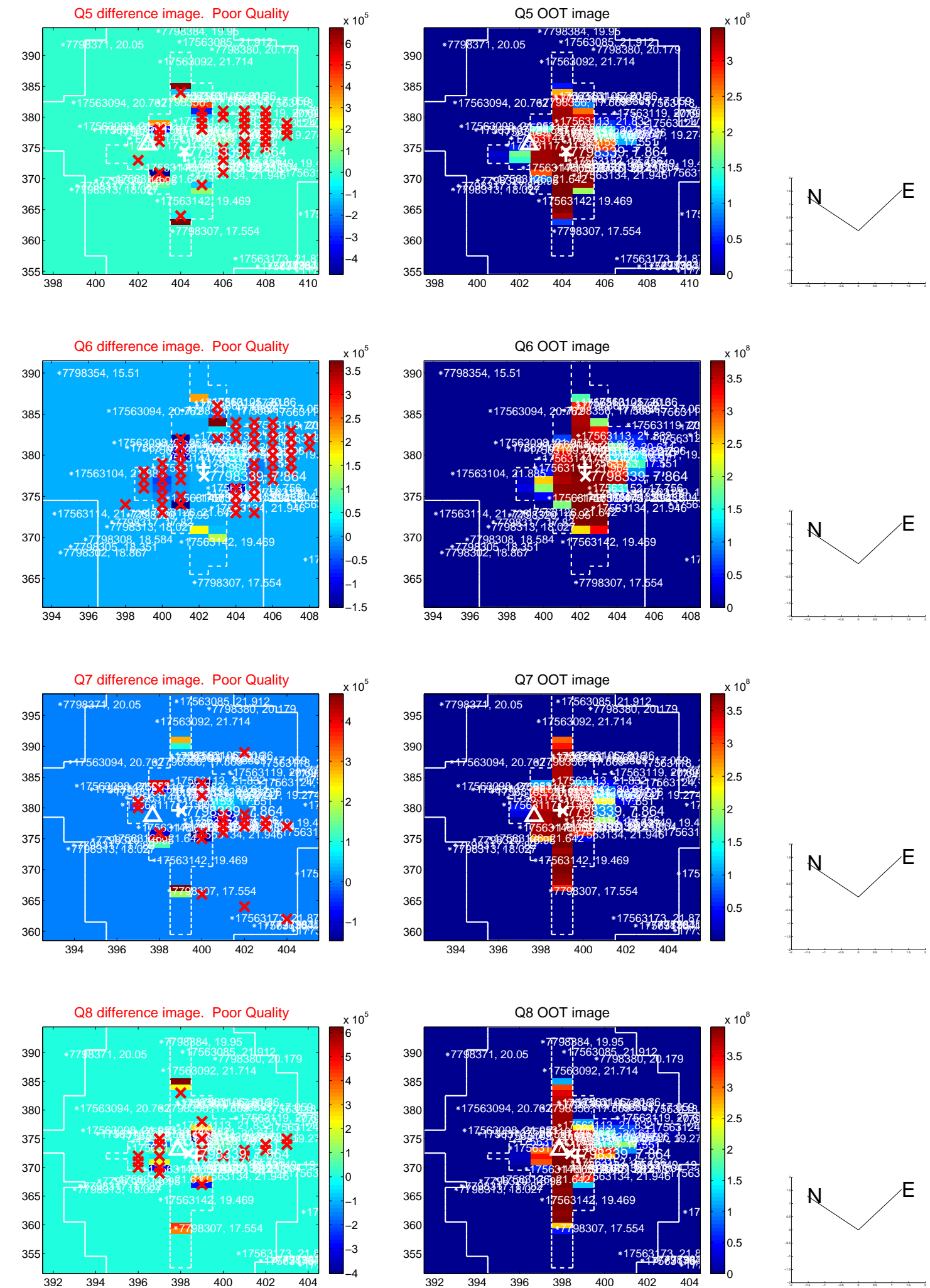


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

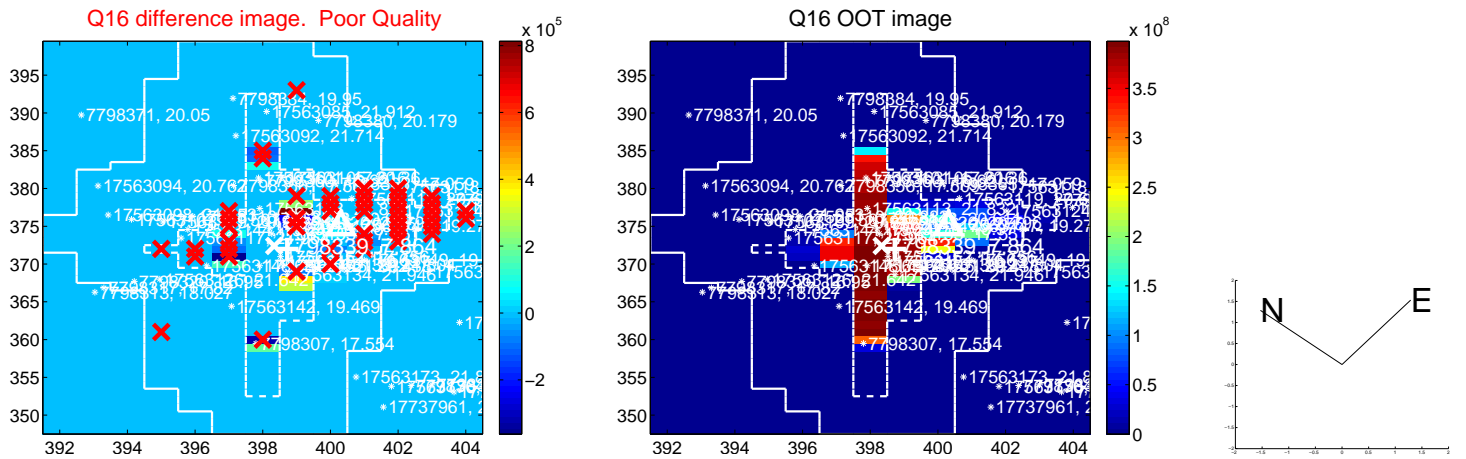
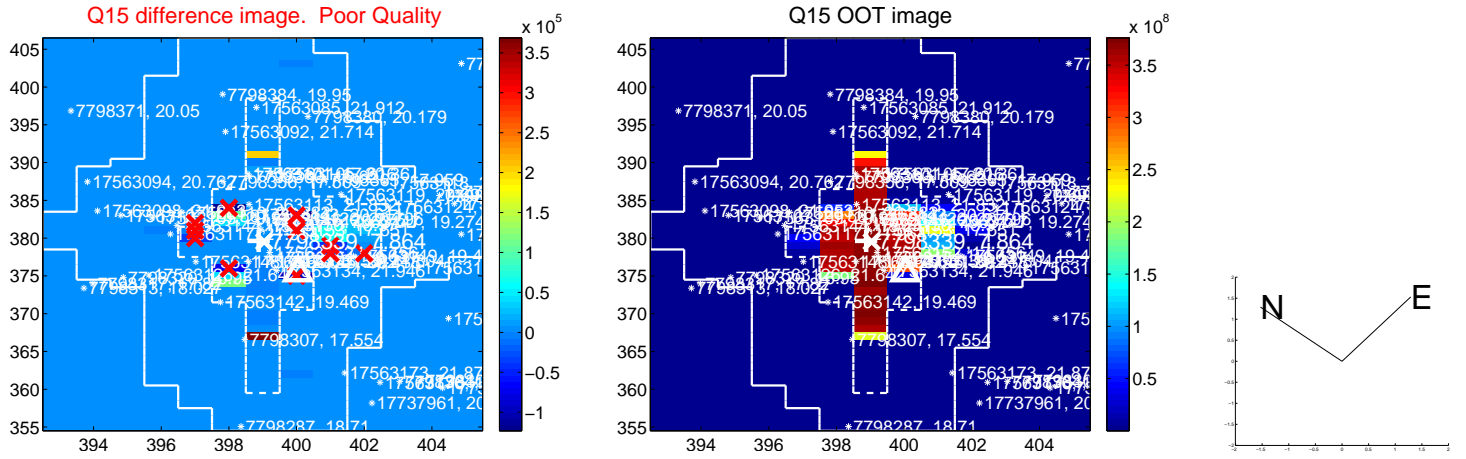
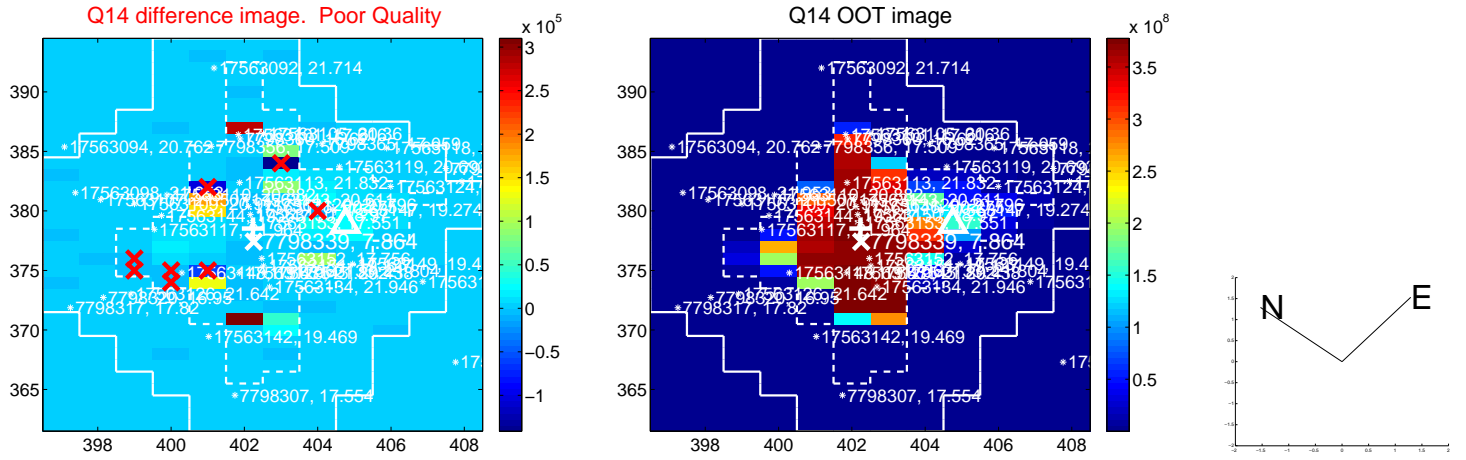
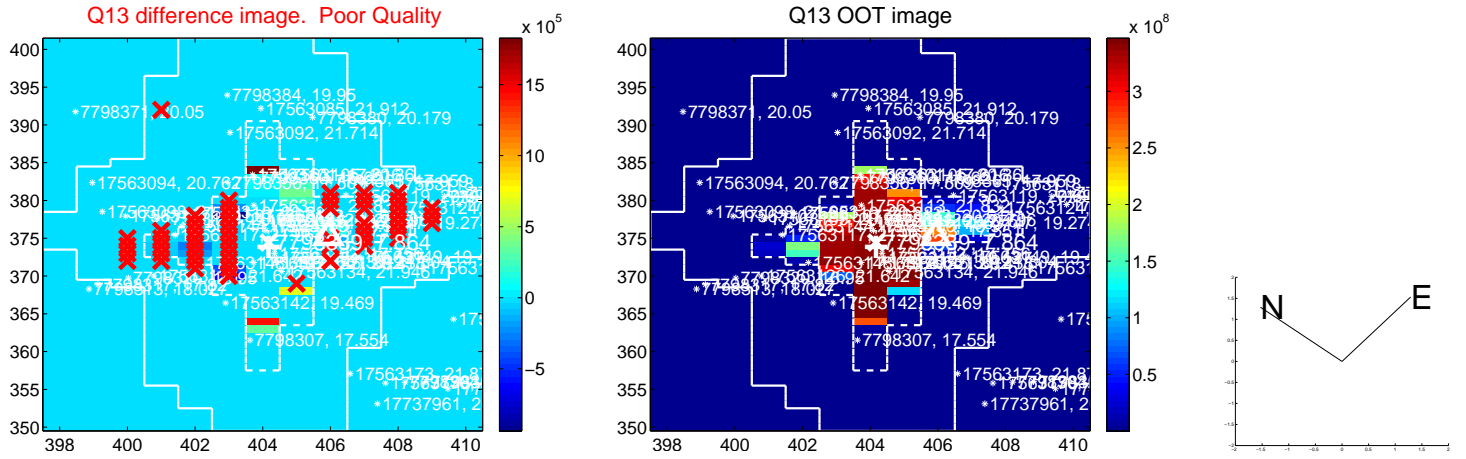
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



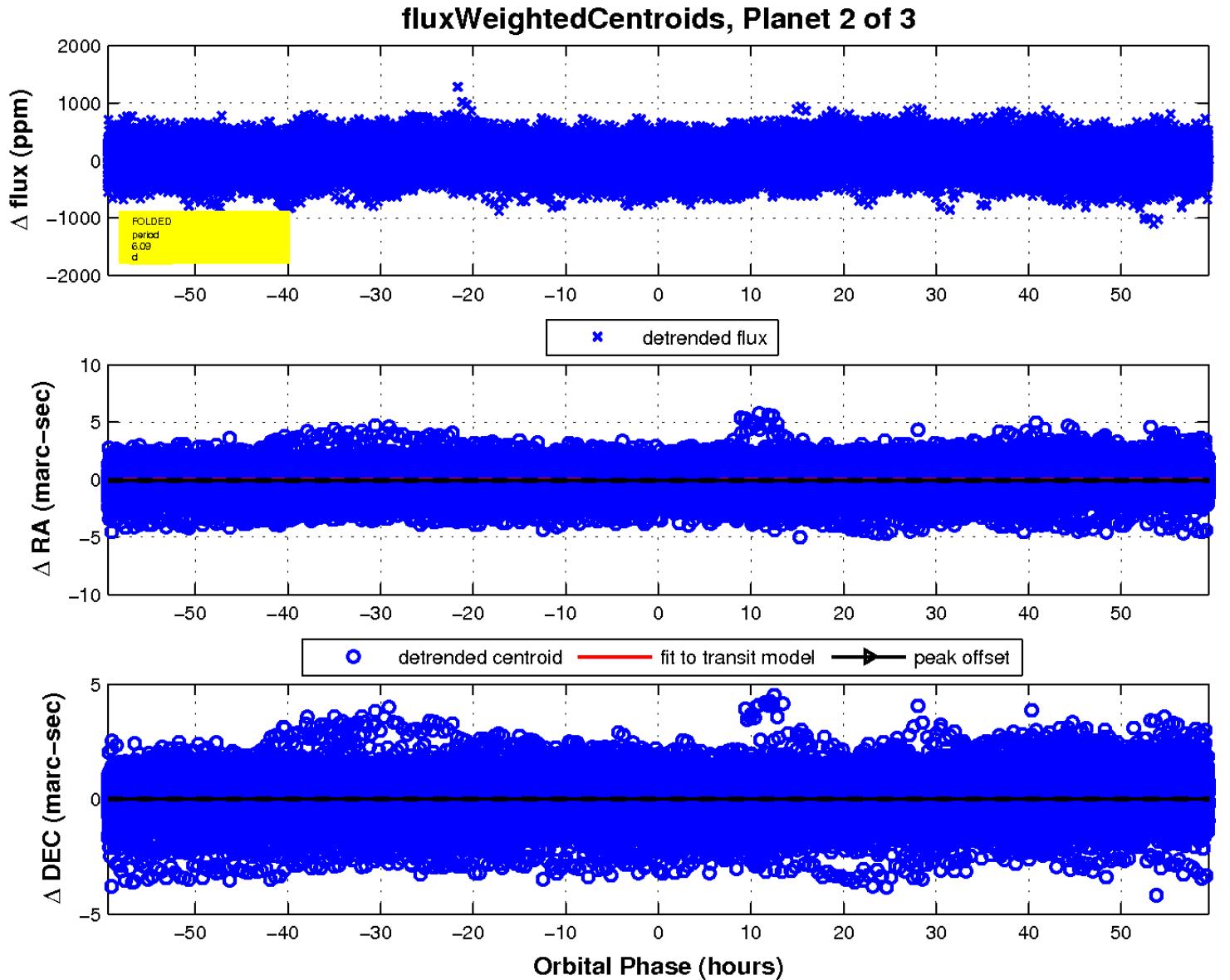
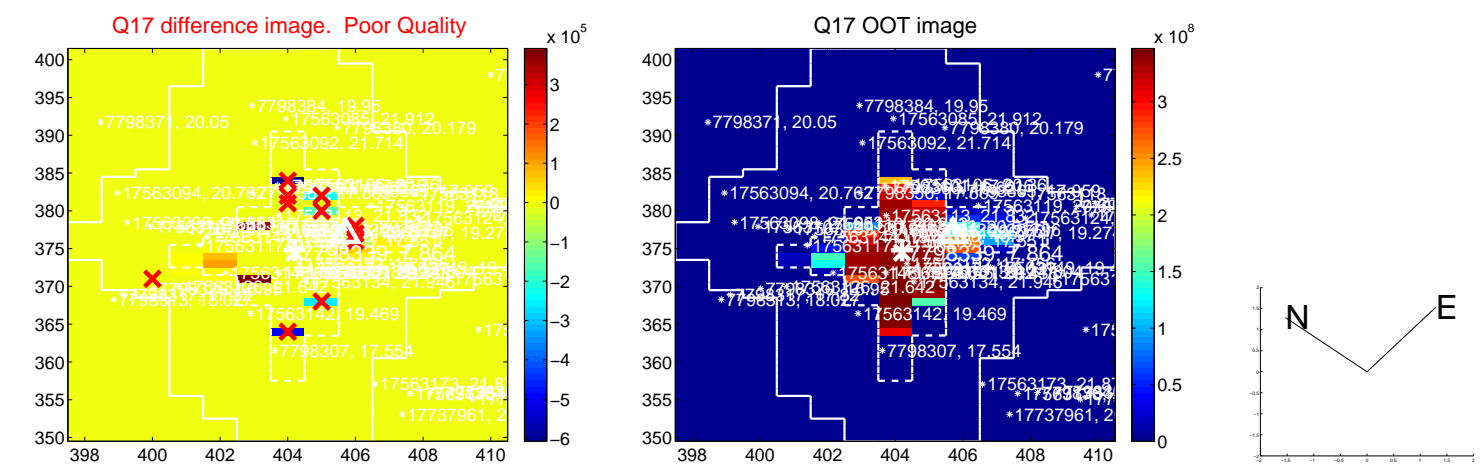
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

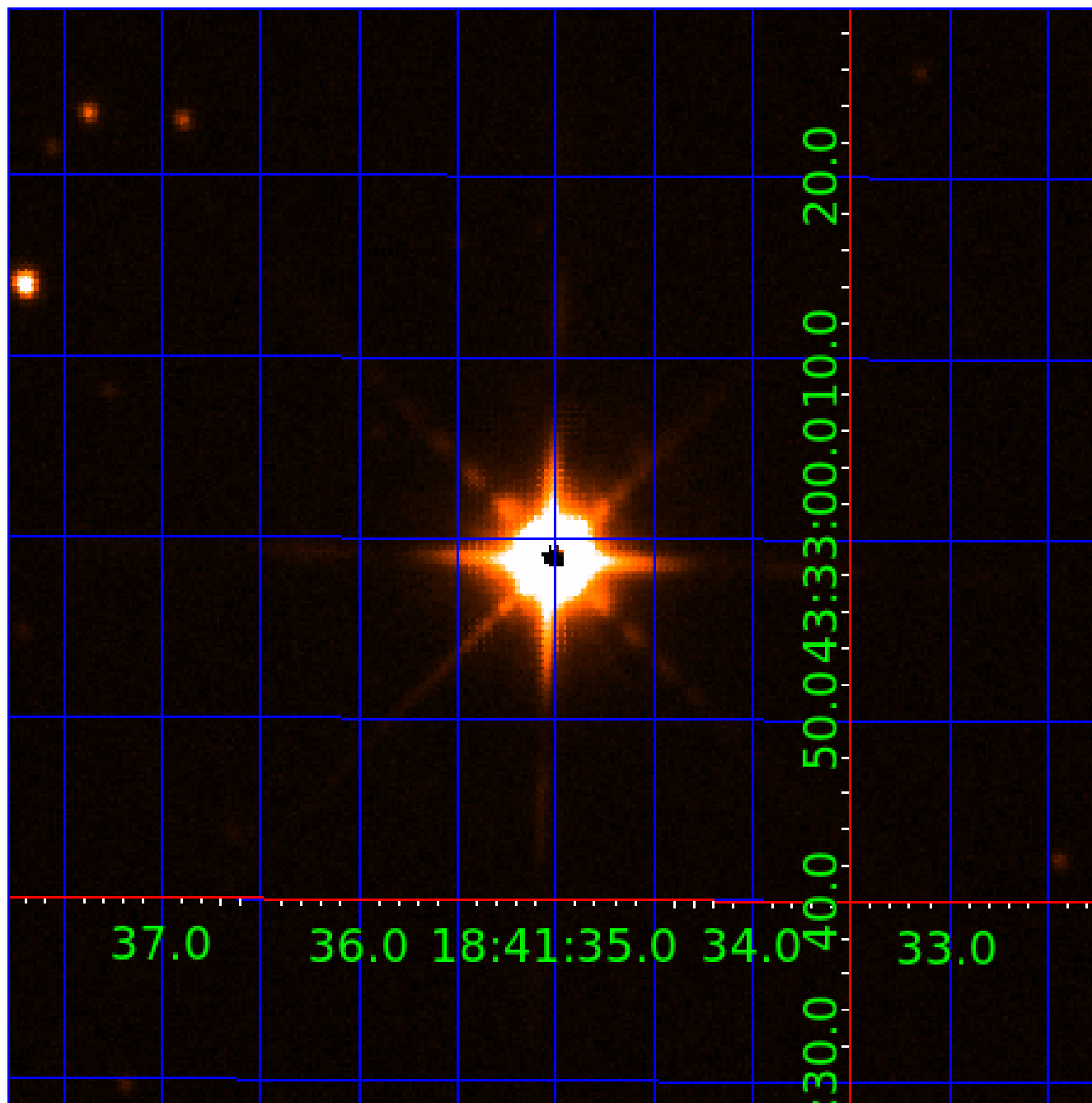


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007798339

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})
007798339-01	OBS	No	1.584118	132.192178	28.9	5.753	8.3	8.3	2.33	6878	1.47	11286.28
007798339-02	OBS	No	6.085325	131.925443	117.0	19.816	10.1	12.1	2.33	6878	3.38	1875.96
007798339-03	OBS	No	1.926976	132.464978	84.1	23.124	10.0	14.7	2.33	6878	2.29	8691.59

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007798339-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
007798339-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007798339-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—TRANS_GAPPED—LPP_DV—CENT_SATURATED

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

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

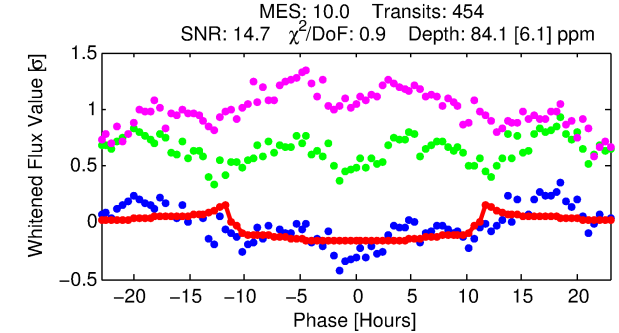
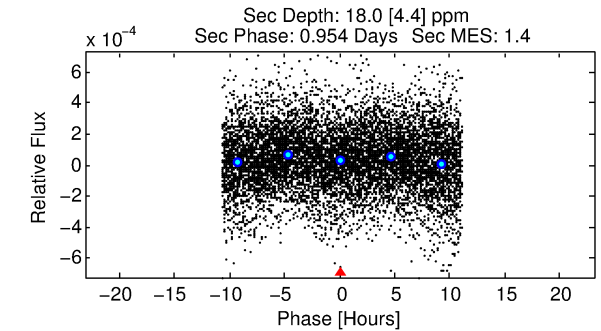
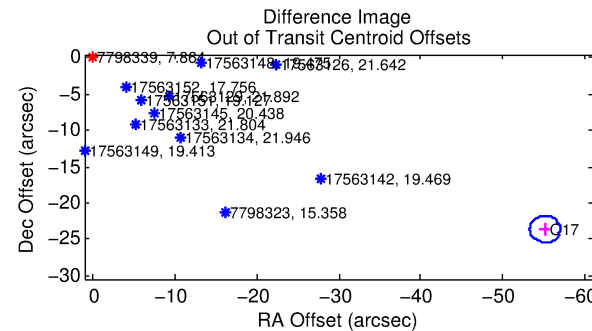
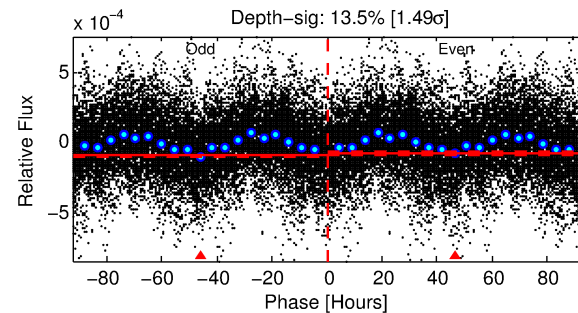
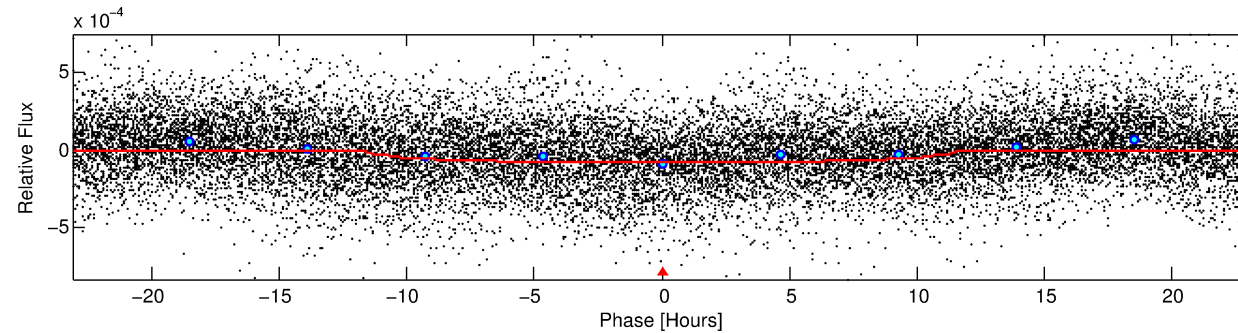
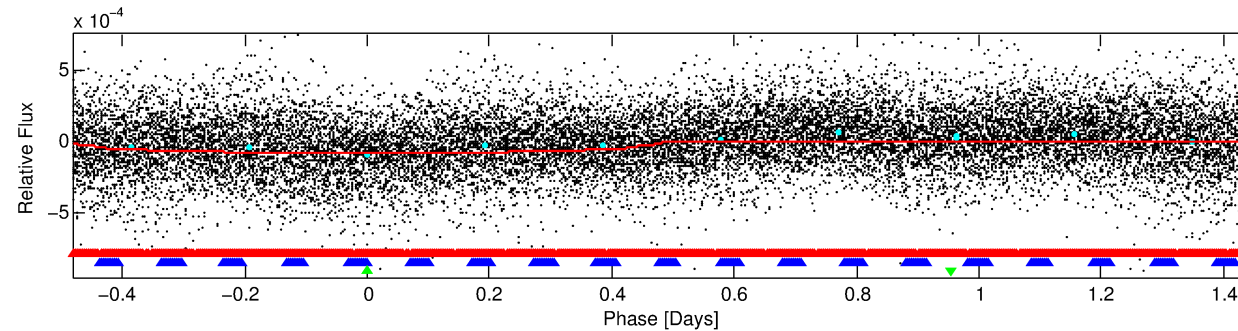
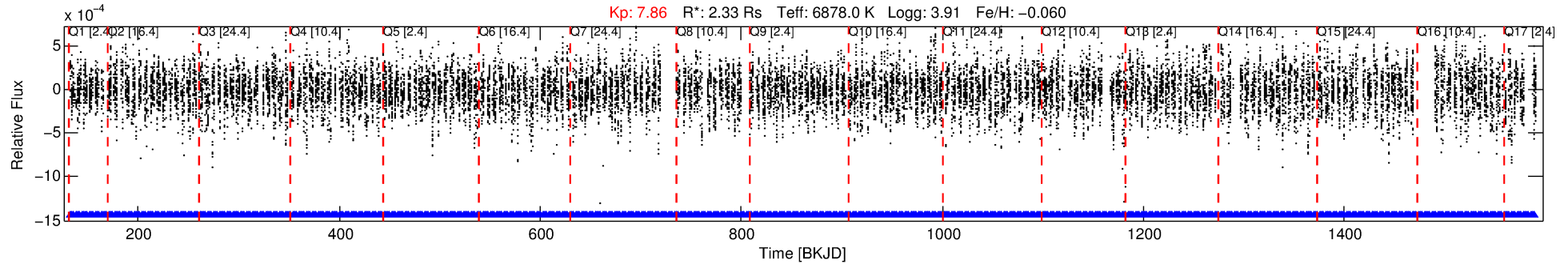
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007798339-03

No Significant Match Found

DV One-Page Summary

KIC: 7798339 Candidate: 3 of 3 Period: 1.927 d



DV Fit Results:

Period = 1.92698 [0.00002] d
Epoch = 132.4650 [0.0049] BKJD
R/R* = 0.0090 [0.0005]
a/R* = 1.00 [0.00]
b = 0.70 [0.19]
Seff = 8691.59 [3040.96]
Teq = 2462 [215] K
Rp = 2.29 [0.56] Re
a = 0.0355 [0.0077] AU
Ag = 2.37 [1.03] [1.34 σ]
Teff = 4725 [333] K [5.71 σ]

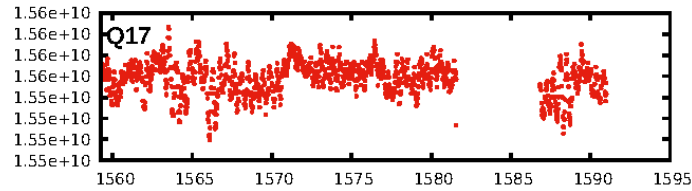
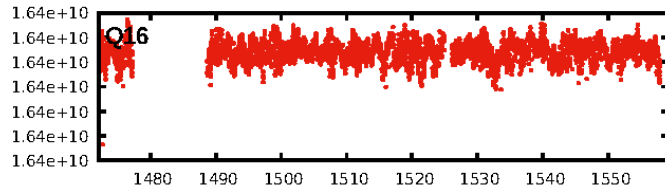
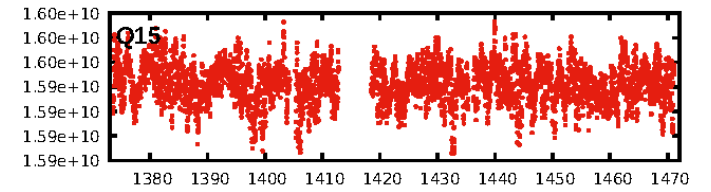
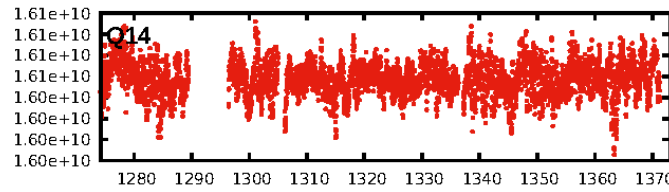
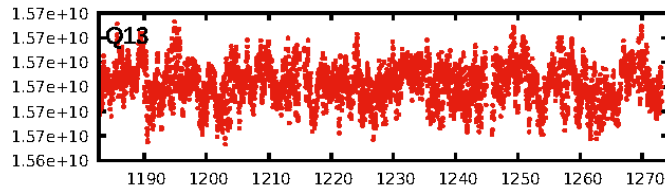
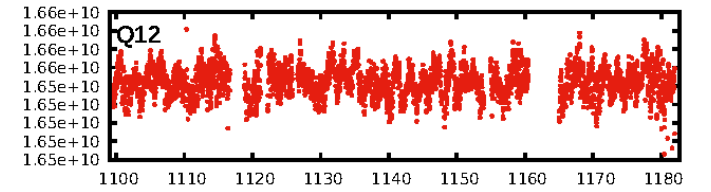
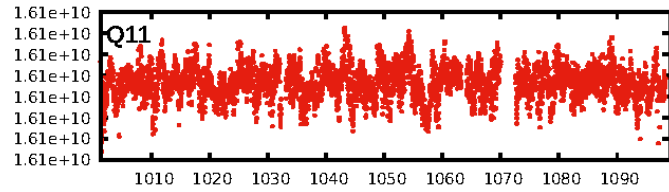
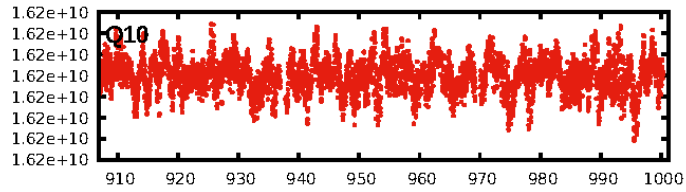
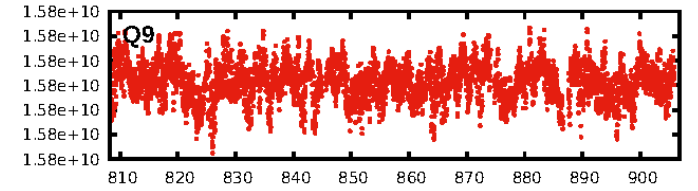
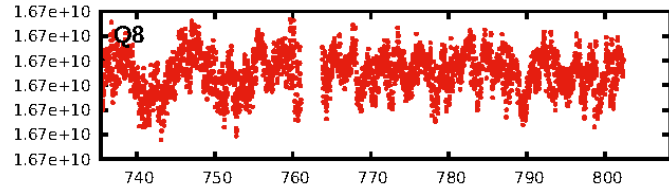
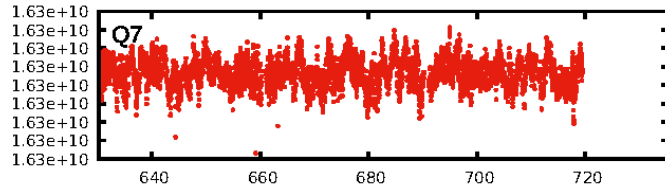
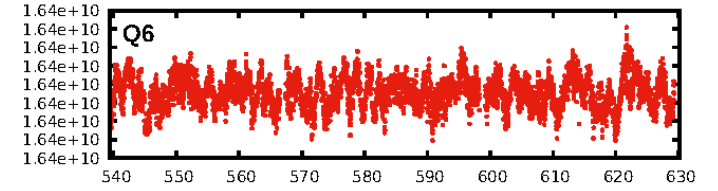
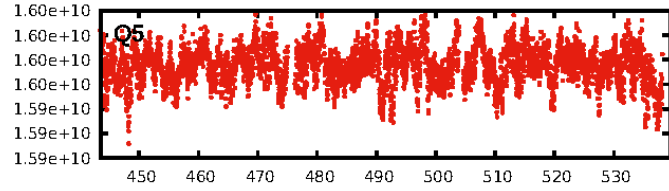
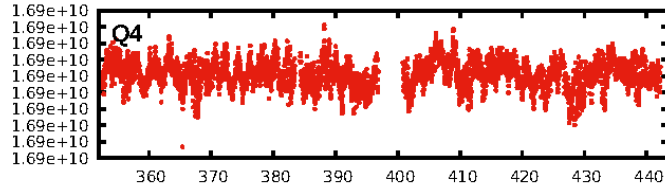
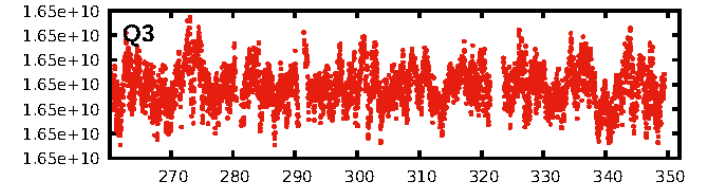
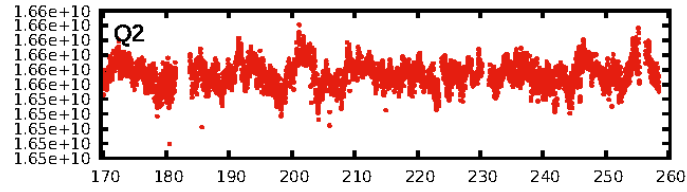
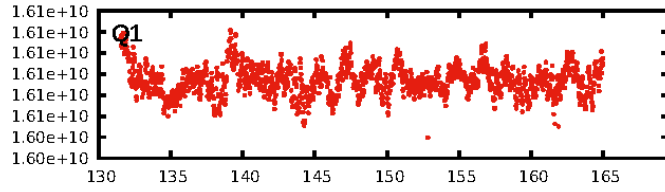
DV Diagnostic Results:

ShortPeriod-sig: 27.0% [0.35 σ]
LongPeriod-sig: 99.9% [3.28 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [432/432]
GhostDiagnostic-chr: N/A
Centroid-sig: 0.0%
Centroid-so: 1.203 arcsec [4.15 σ]
OotOffset-rm: 59.938 arcsec [96.83 σ]
KicOffset-rm: 58.656 arcsec [94.91 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.00 [0/17]

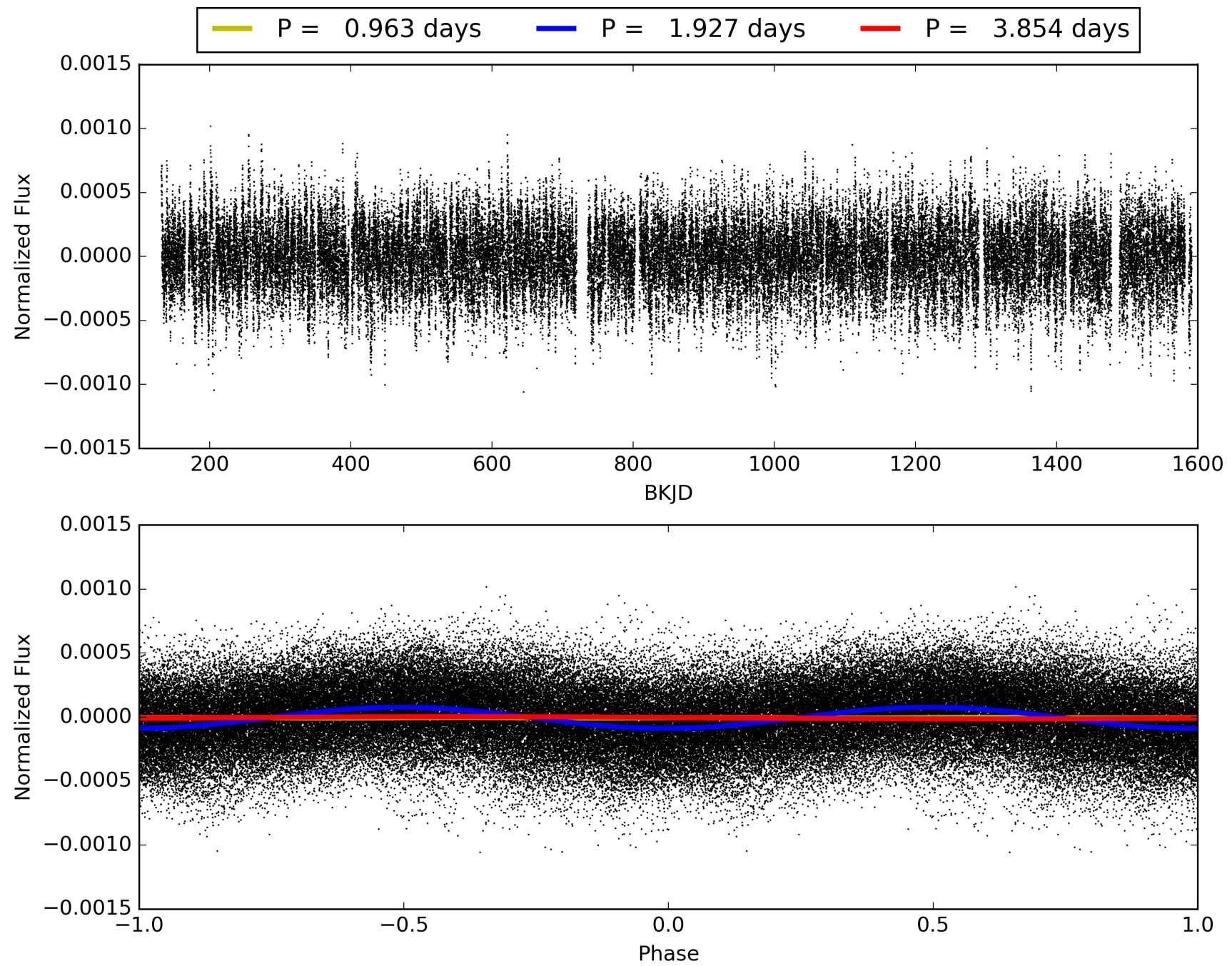
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 23:58:40 Z

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

TCE 007798339-03, PDC Light Curves

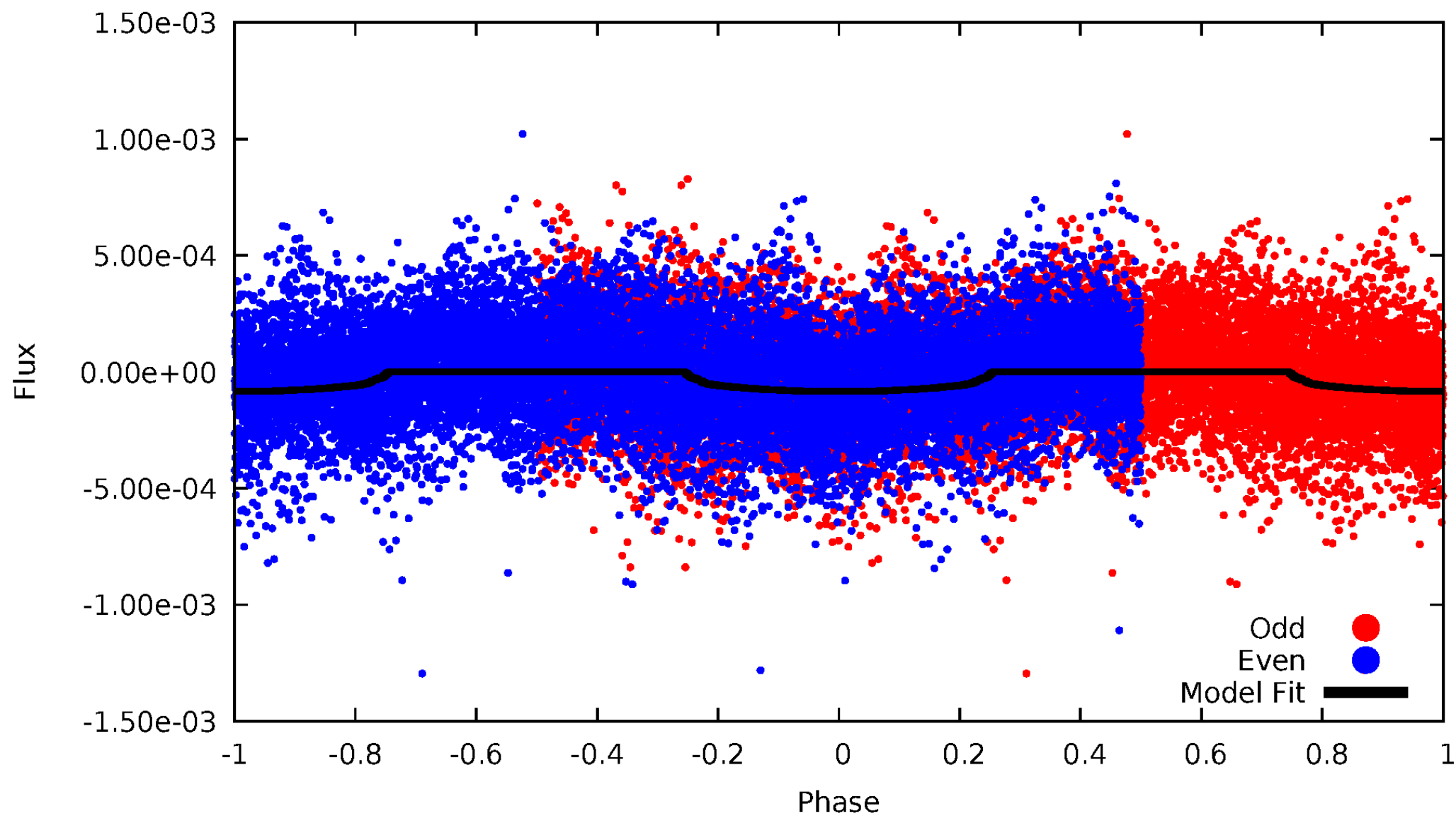


TCE 007798339-03



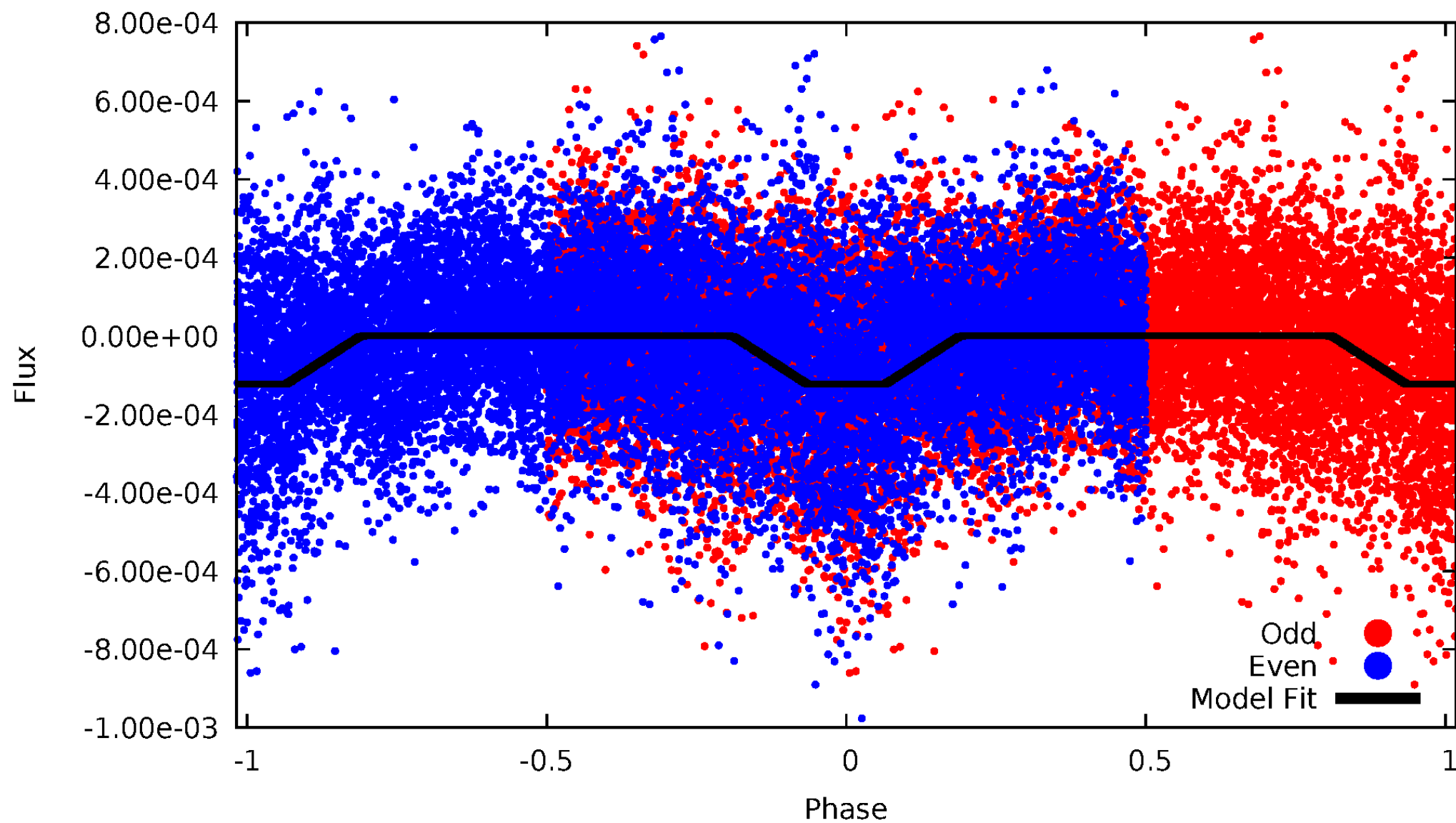
DV Odd/Even

TCE 007798339-03



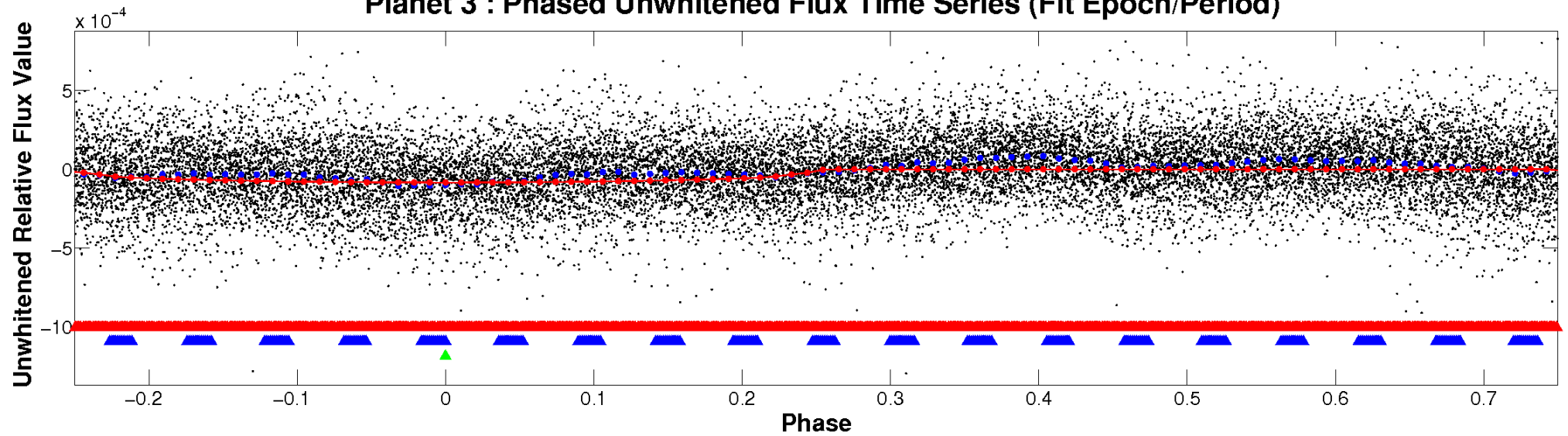
ALT Odd/Even

TCE 007798339-03

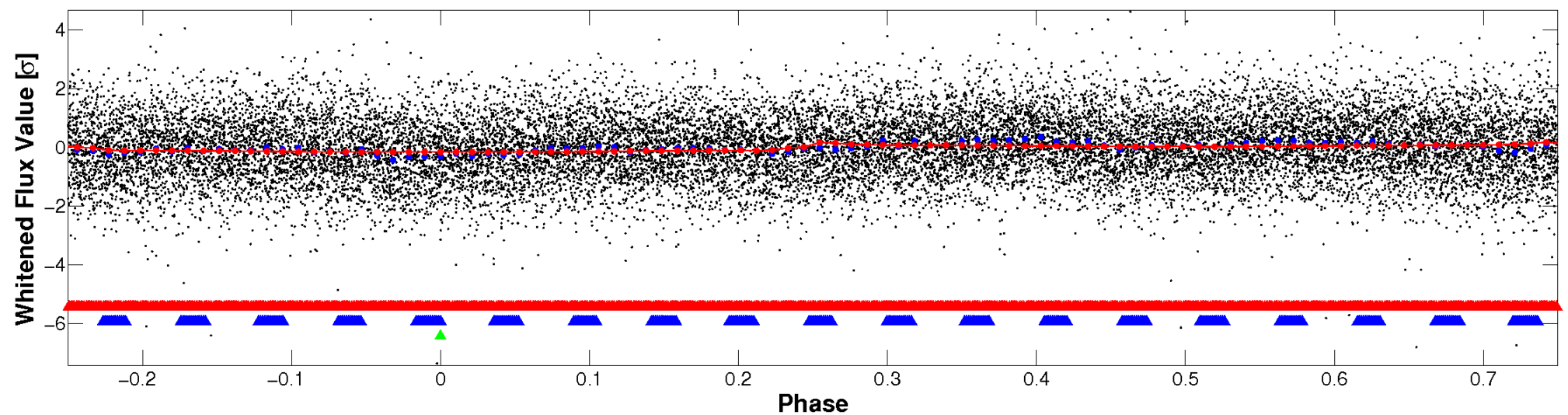


Non-Whitened Vs. Whitened Light Curve

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

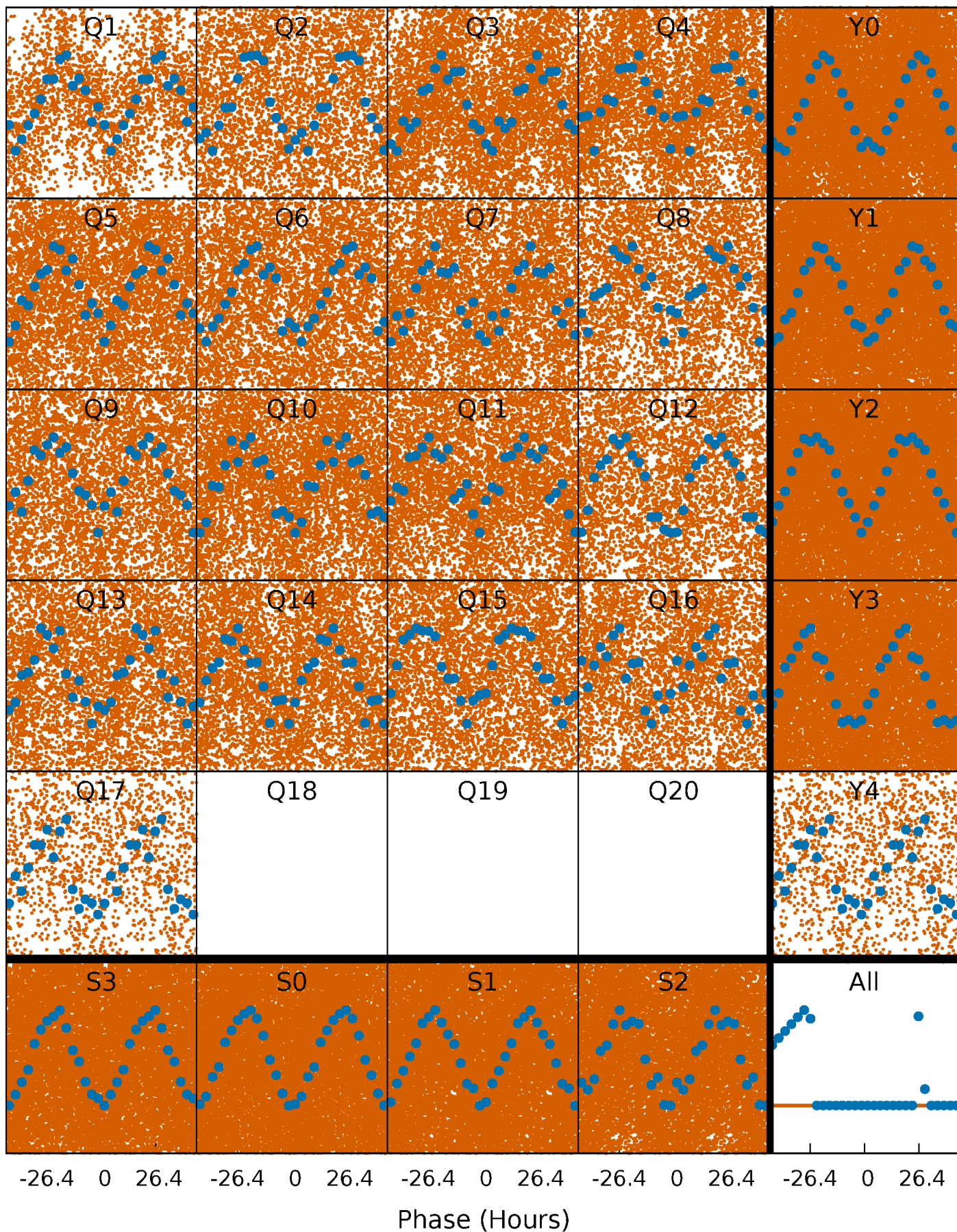


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



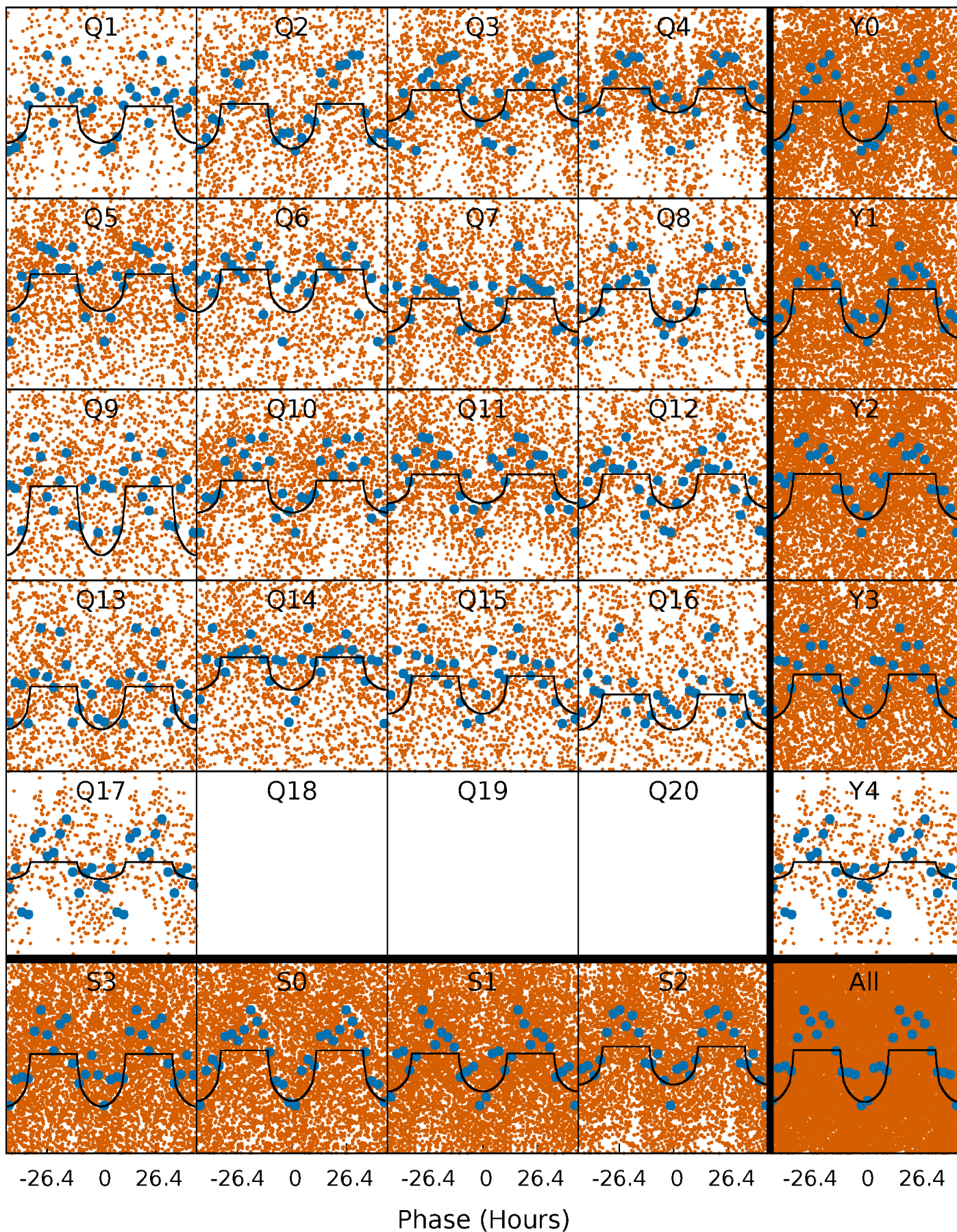
PDC Quarter-Phased Transit Curves

TCE 007798339-03 P= 1.926976 Days $T_0=132.464979$ (BKJD)



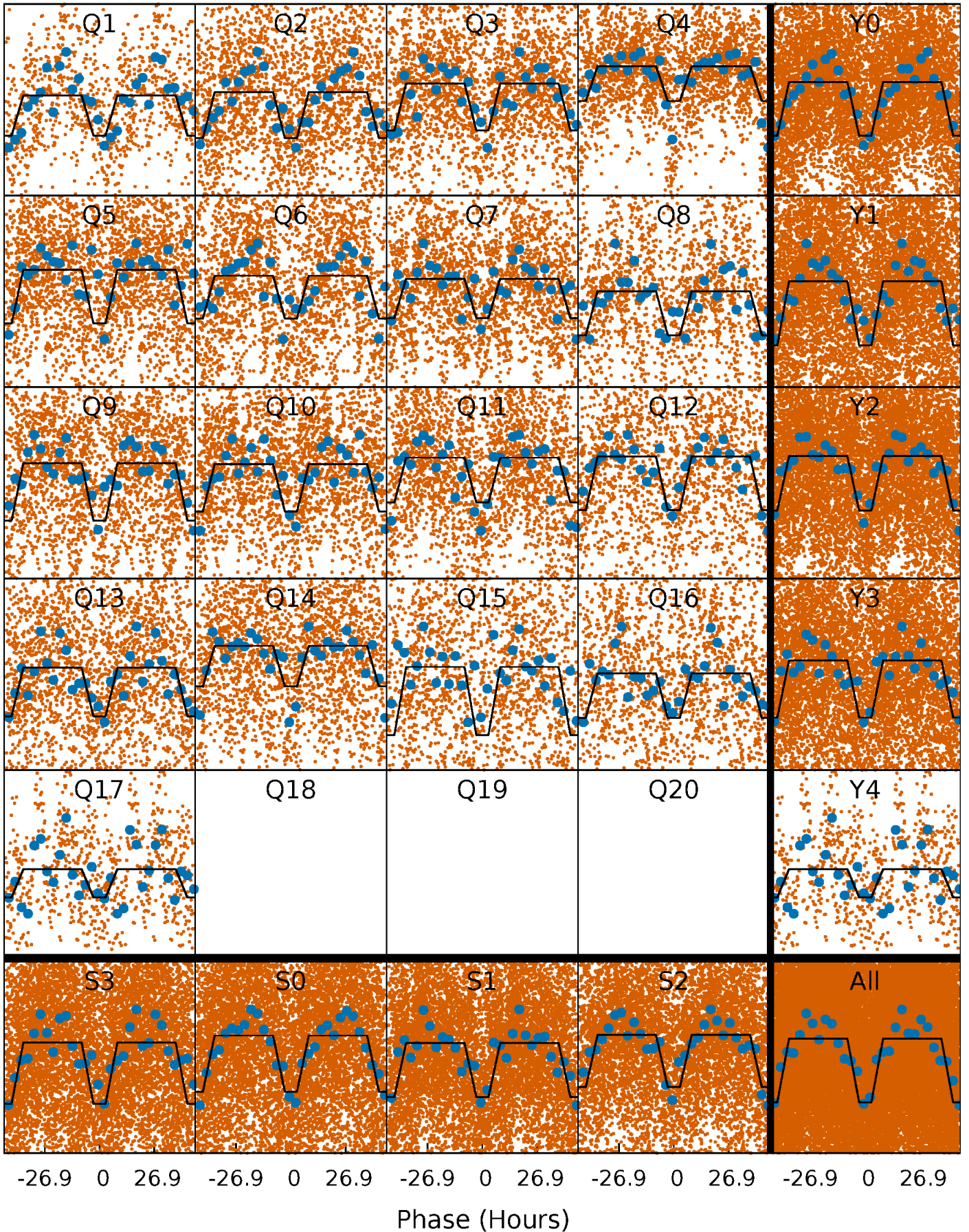
DV Quarter-Phased Transit Curves

TCE 007798339-03 P= 1.926976 Days $T_0=132.464979$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

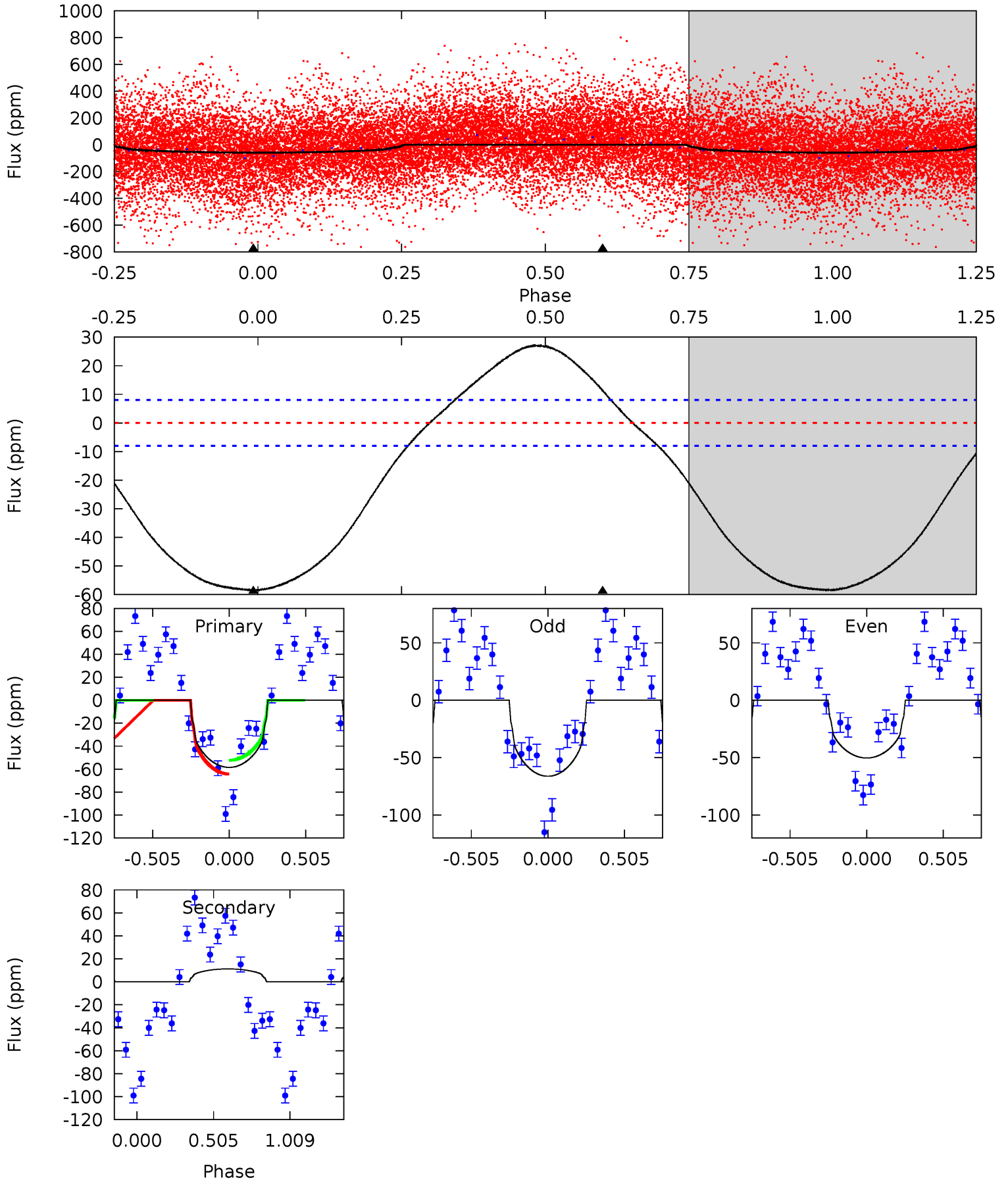
TCE 007798339-03 P= 1.926917 Days $T_0=132.471313$ (BKJD)



DV Model-Shift Uniqueness Test

007798339-03, P = 1.926976 Days, E = 132.464979 Days

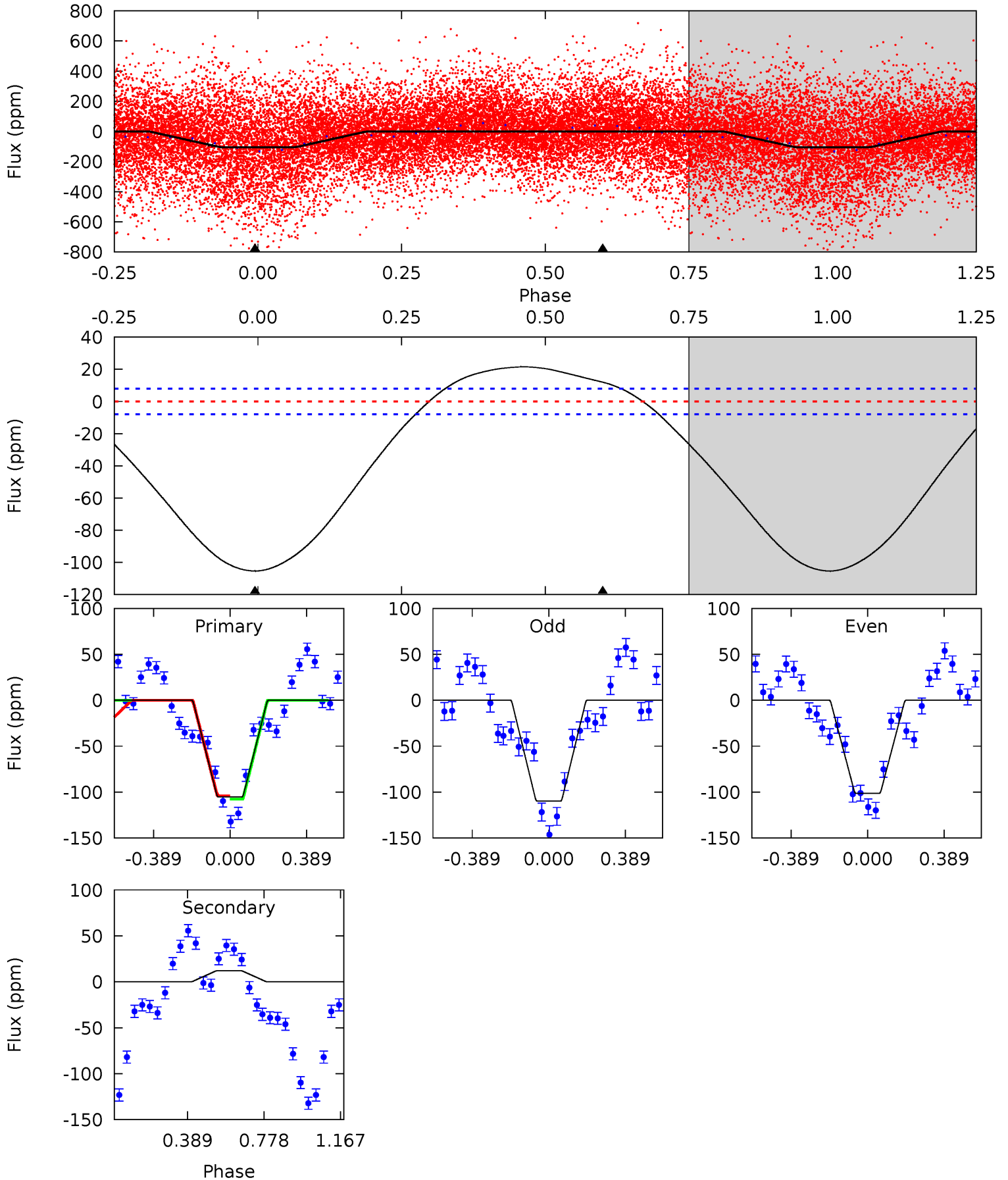
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.7	-5.91	0	0	4.21	0.67	2.94	30.7	30.7	-5.91	-5.91	4.26	0.85	0.32	3.02



Alt Model-Shift Uniqueness Test

007798339-03, P = 1.926917 Days, E = 132.471313 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
56.1	-6.41	0	0	4.27	0.86	4.73	56.1	56.1	-6.41	-6.41	2.26	1.43	0.17	0.90



Stellar Parameters For KIC 007798339

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6878^{+123}_{-150}	$3.906^{+0.195}_{-0.105}$	$-0.060^{+0.150}_{-0.150}$	$2.335^{+0.455}_{-0.556}$	$1.602^{+0.130}_{-0.211}$	$0.177^{+0.193}_{-0.057}$
	+2%/-2%	+5%/-3%	+250%/-250%	+19%/-24%	+8%/-13%	+109%/-32%
Source	SPE4	SPE4	SPE4	DSEP		

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

Secondary Eclipse Parameters for KIC 007798339-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	11 ± 2	$2.24^{+0.27}_{-0.32}$	3403^{+167}_{-216}	-4543^{+160}_{-165}	$-1.546^{+0.389}_{-0.577}$
Alt.	12 ± 2	$2.78^{+0.32}_{-0.35}$	3424^{+165}_{-217}	-4293^{+137}_{-142}	$-1.057^{+0.264}_{-0.381}$

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 $A_{obs} \gg 1.0$

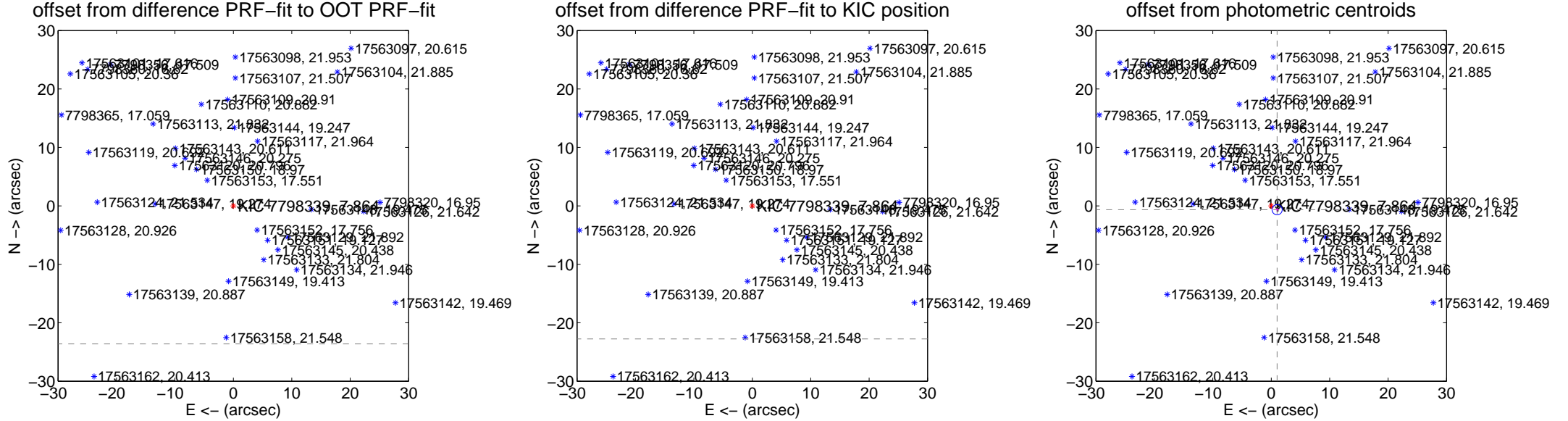
DV Centroid Data

Supplemental centroid analysis for 007798339-03. **Kepler magnitude: 7.86.** Transit SNR 14.65

There are 0 quarters with good PRF difference image offsets

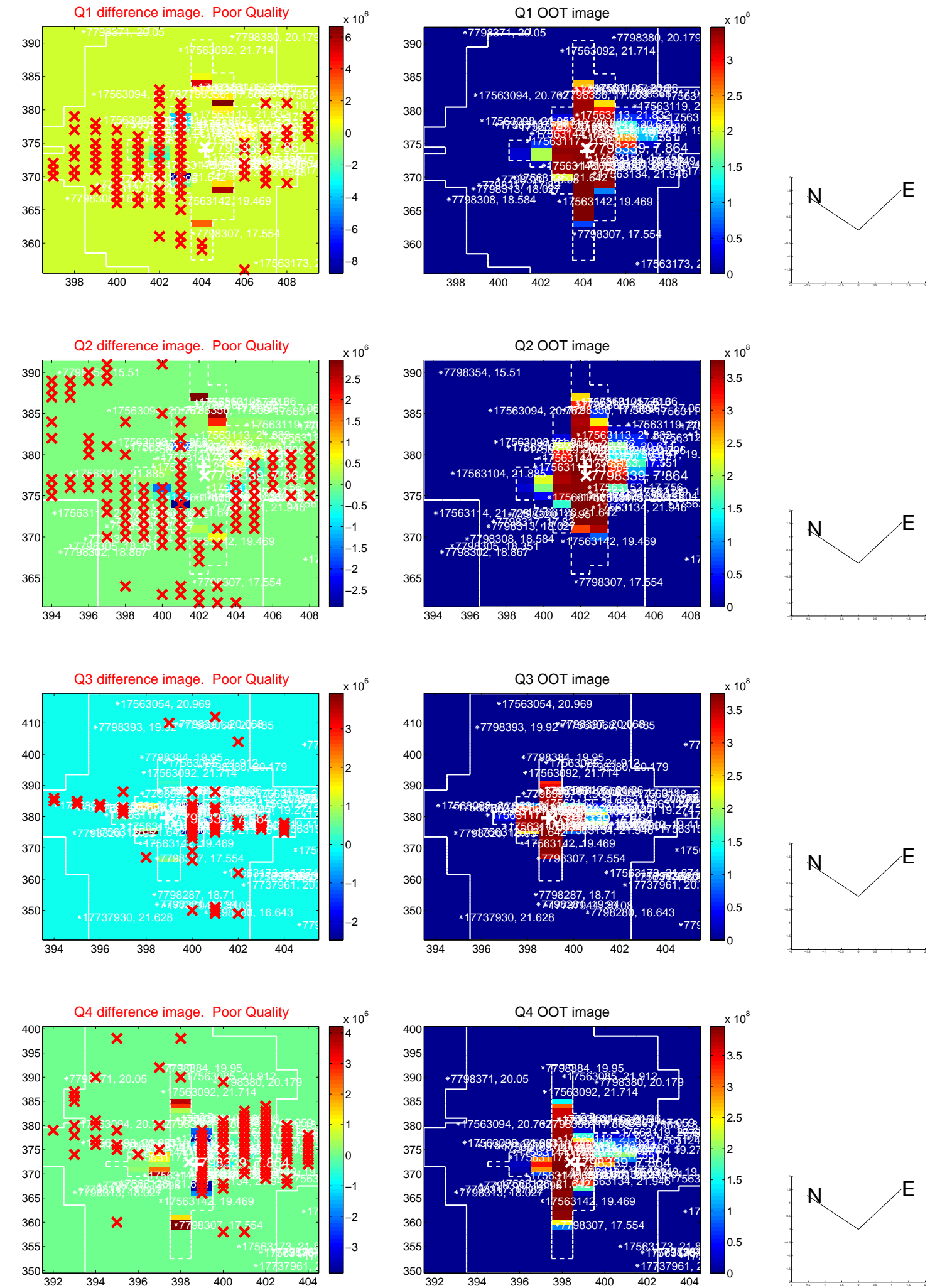
The direct PRF centroid is offset from the target star catalog position by about 1.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	59.938 \pm 0.619	96.83	-55.091 \pm 0.585	-23.612 \pm 0.779
PRF-fit source offset from KIC position	58.656 \pm 0.618	94.91	-54.060 \pm 0.585	-22.760 \pm 0.779
photometric centroid source offset	1.20 \pm 0.29	4.15	-1.01 \pm 0.31	-0.66 \pm 0.24

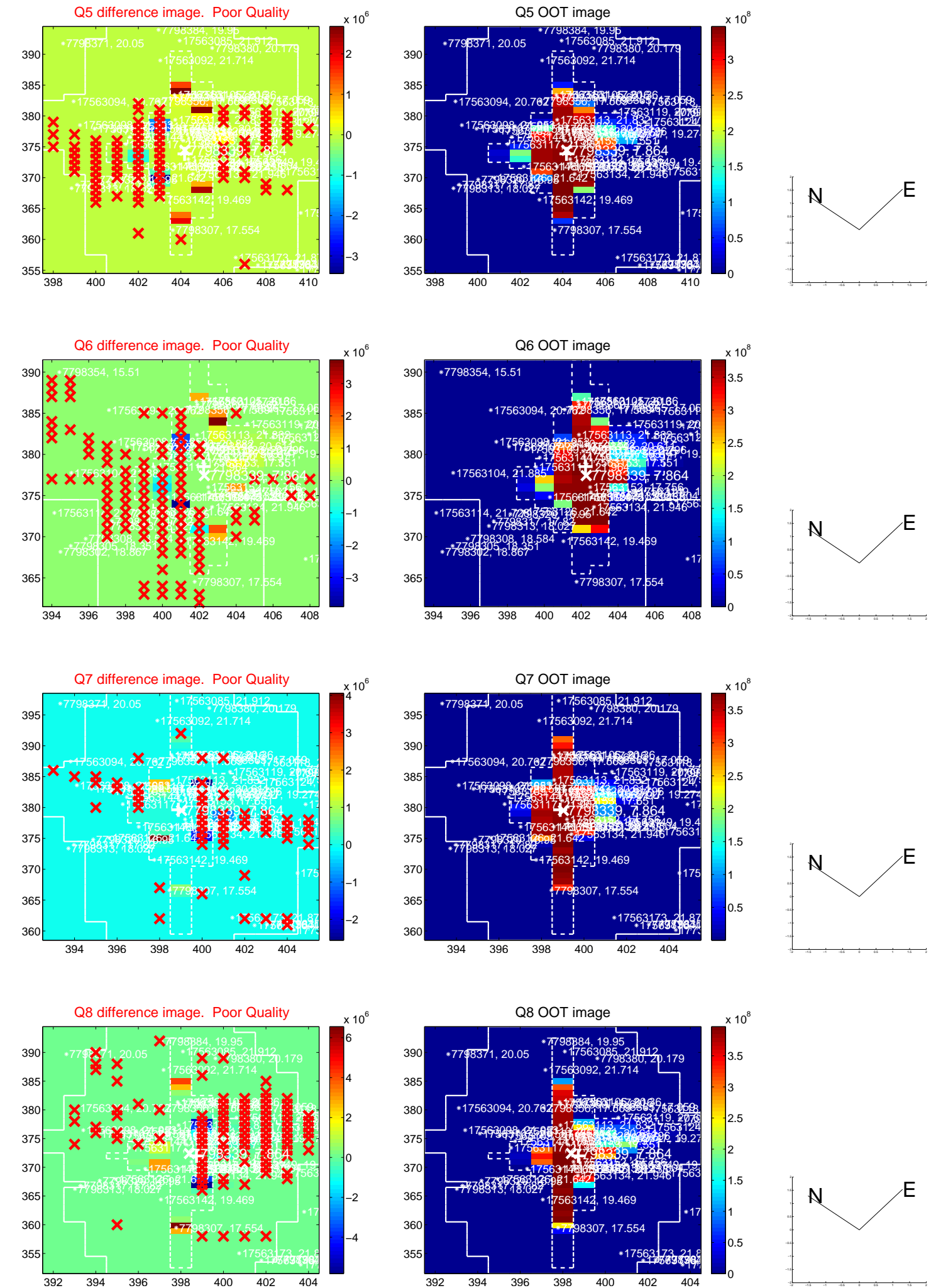


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

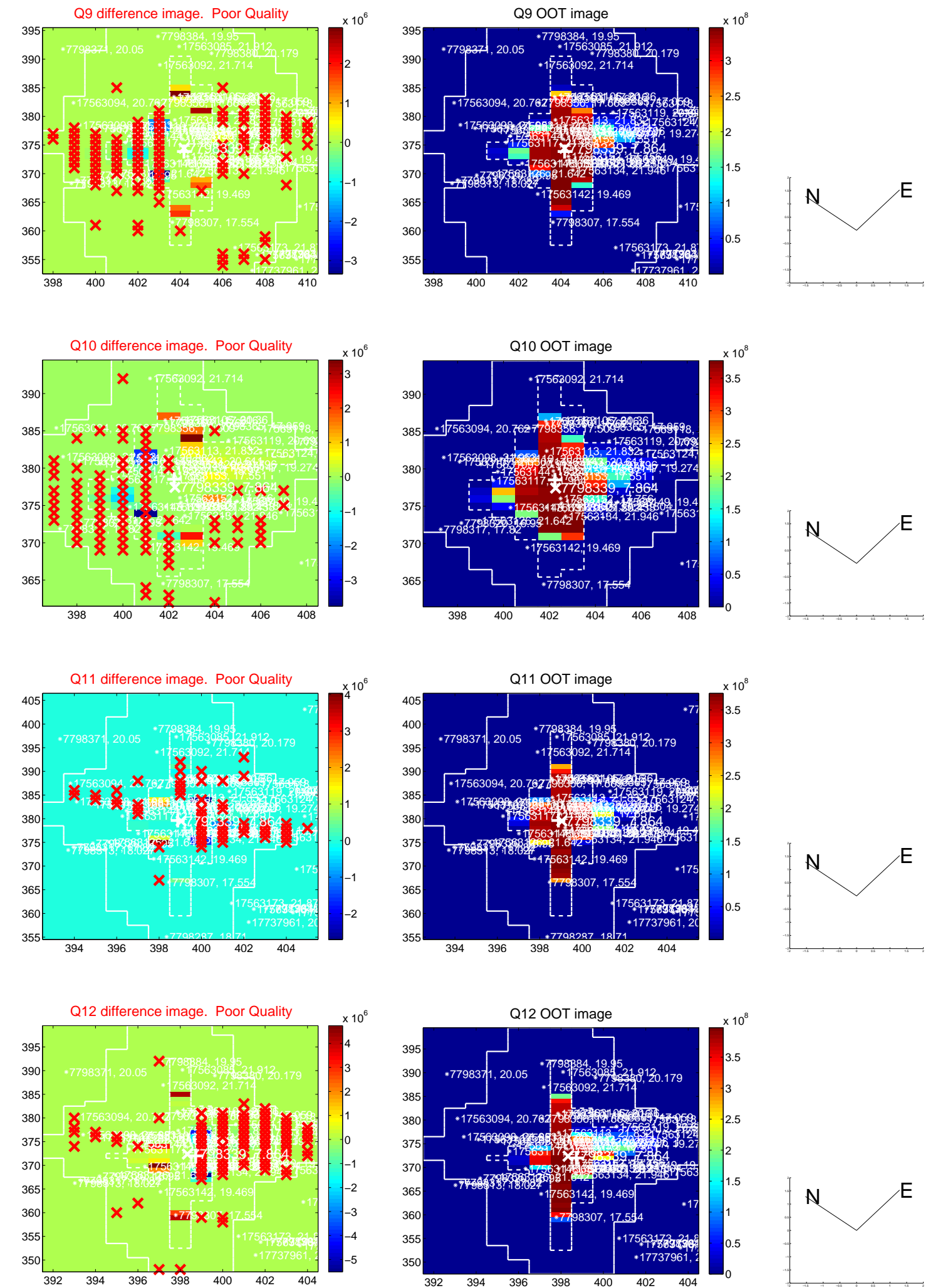
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



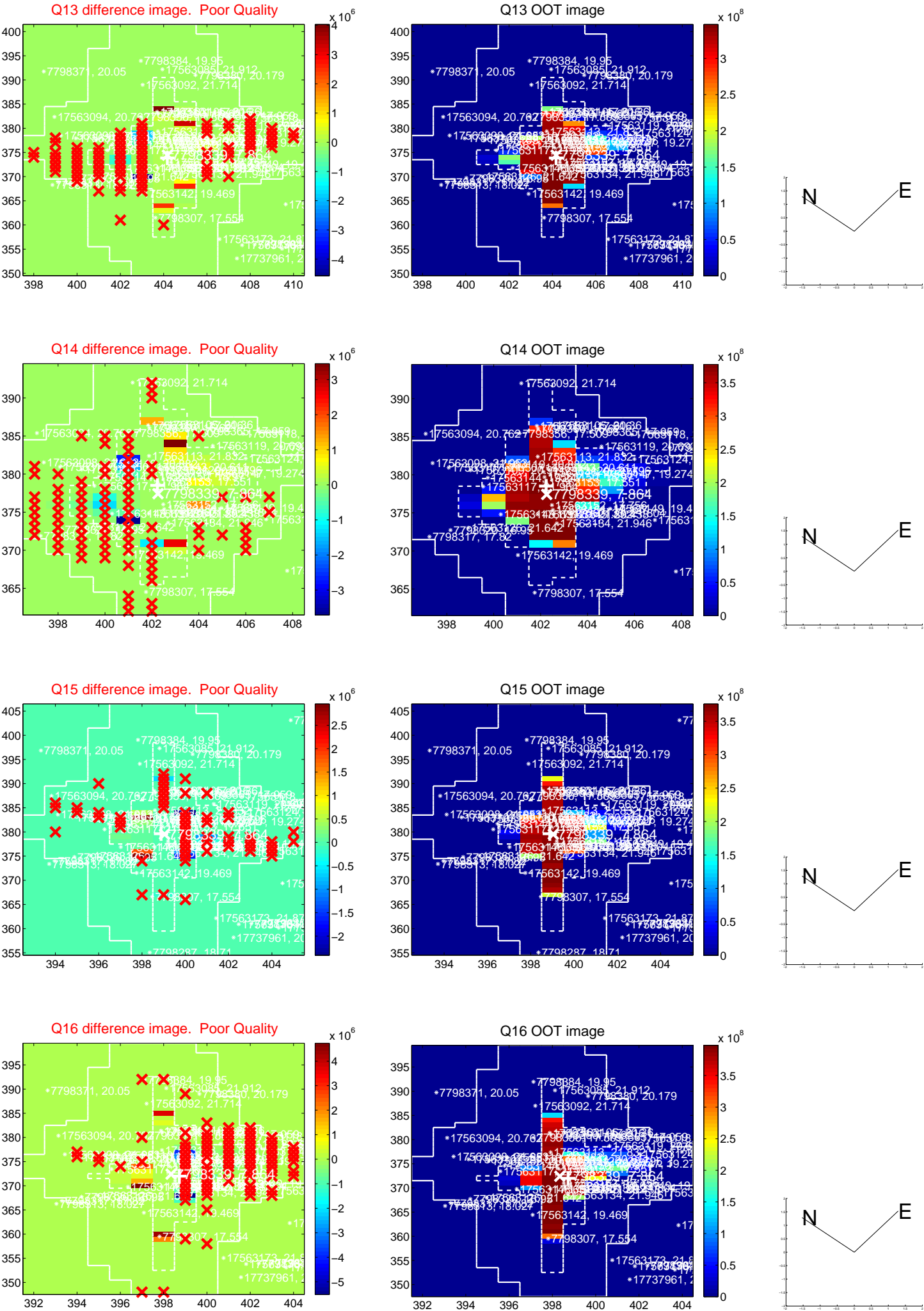
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



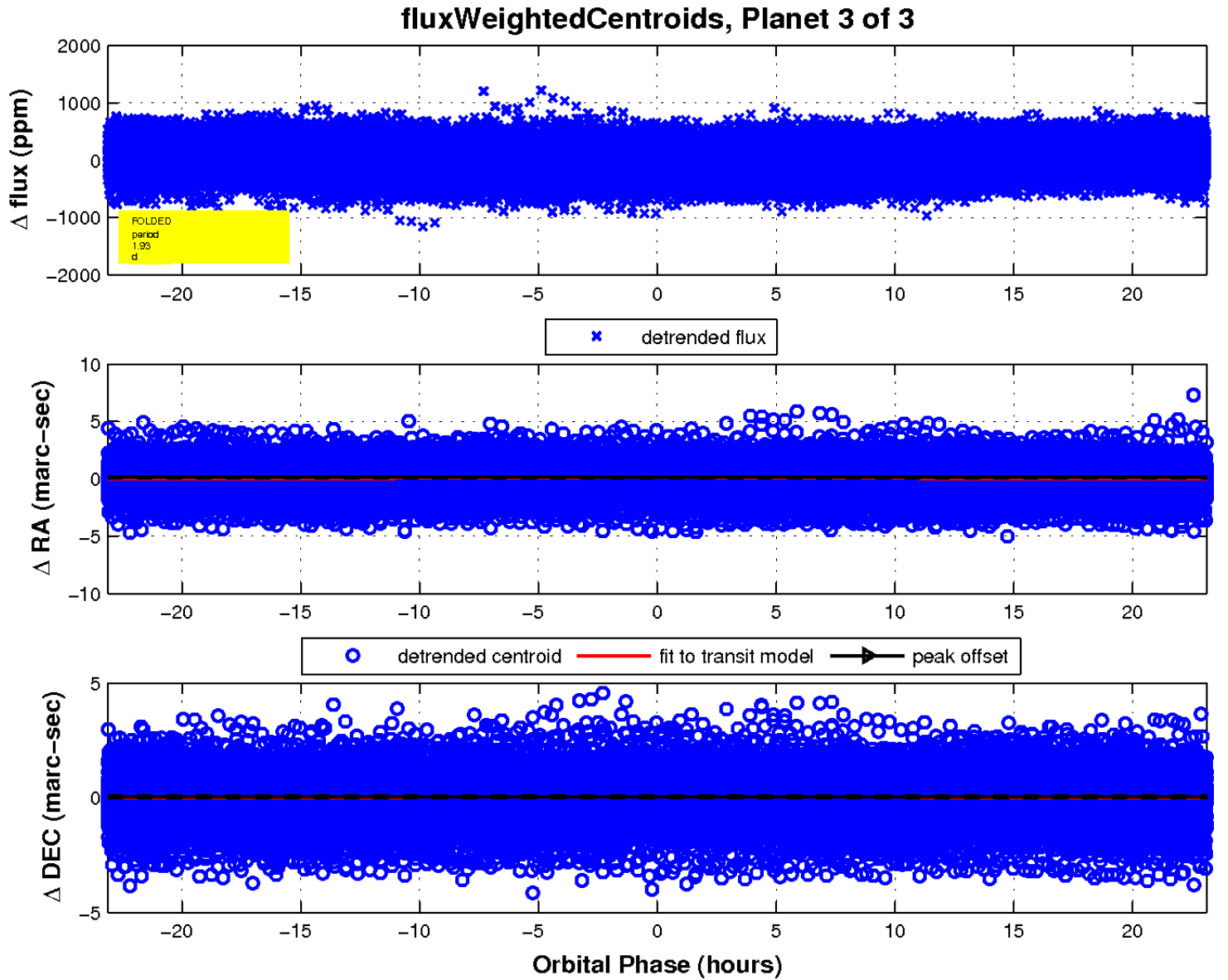
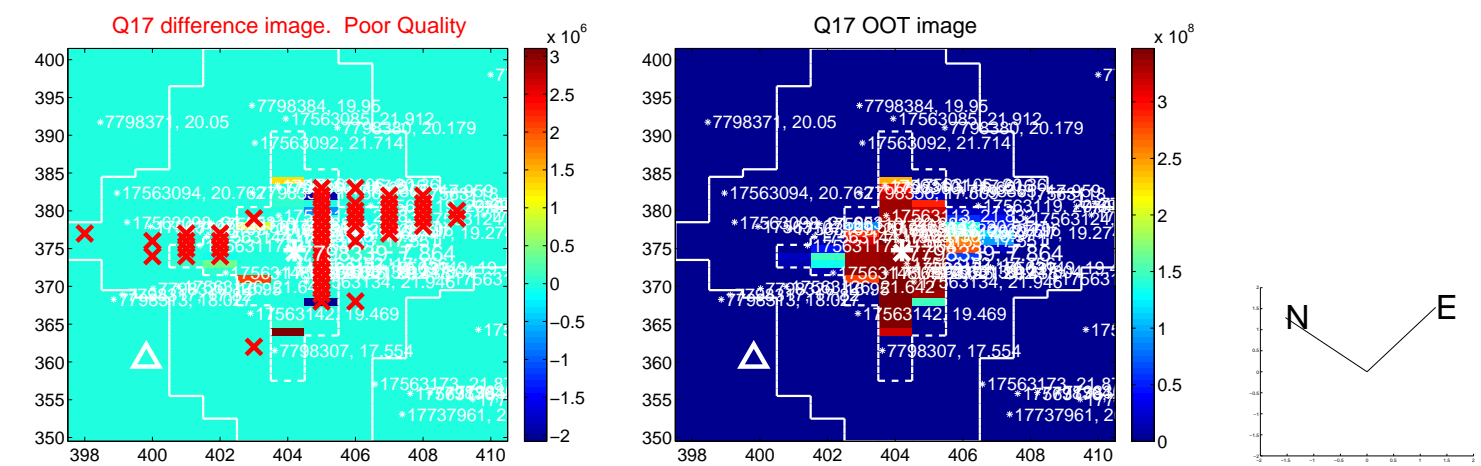
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

