

KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

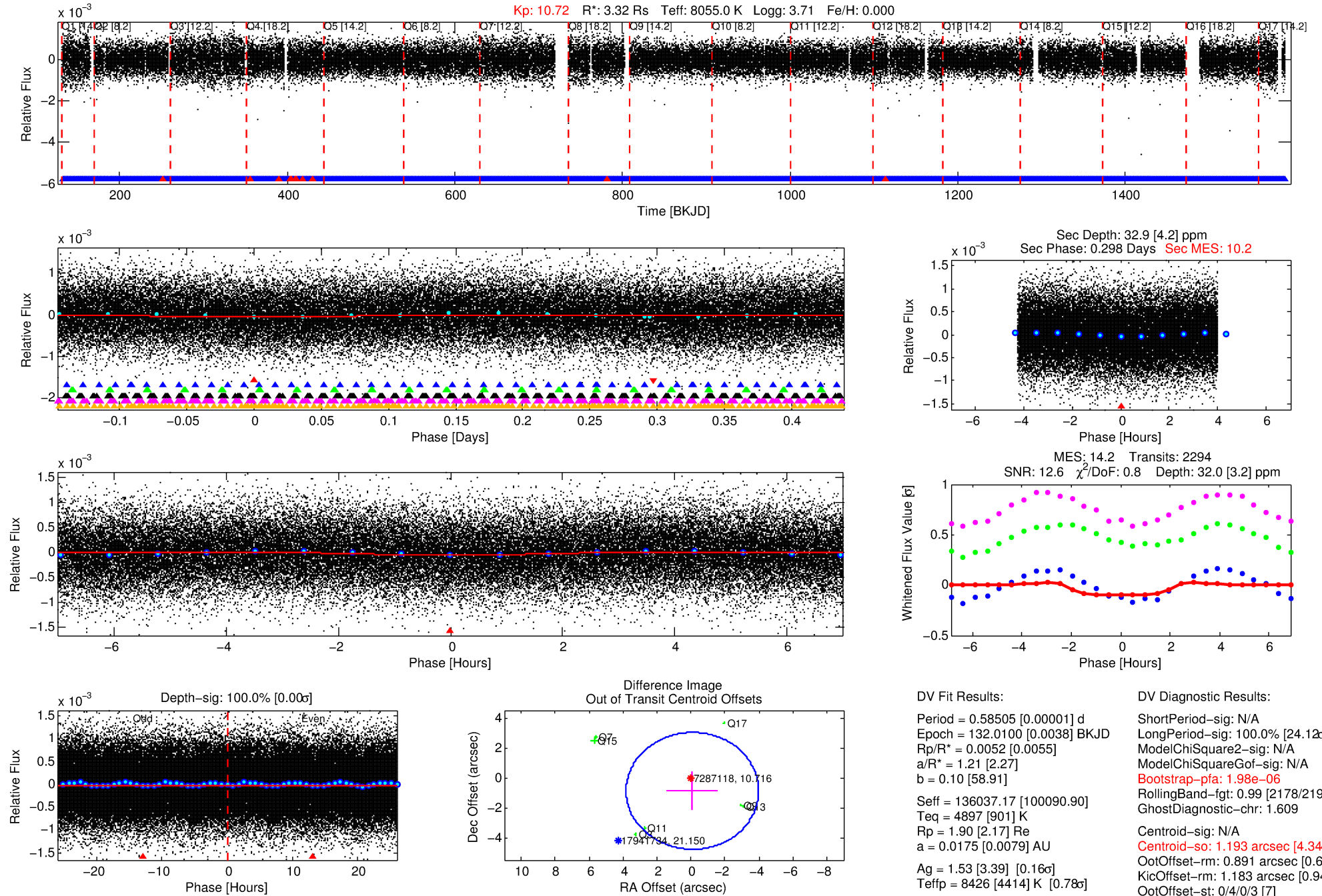
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-01

No Significant Match Found

DV One-Page Summary

KIC: 7287118 Candidate: 1 of 6 Period: 0.585 d



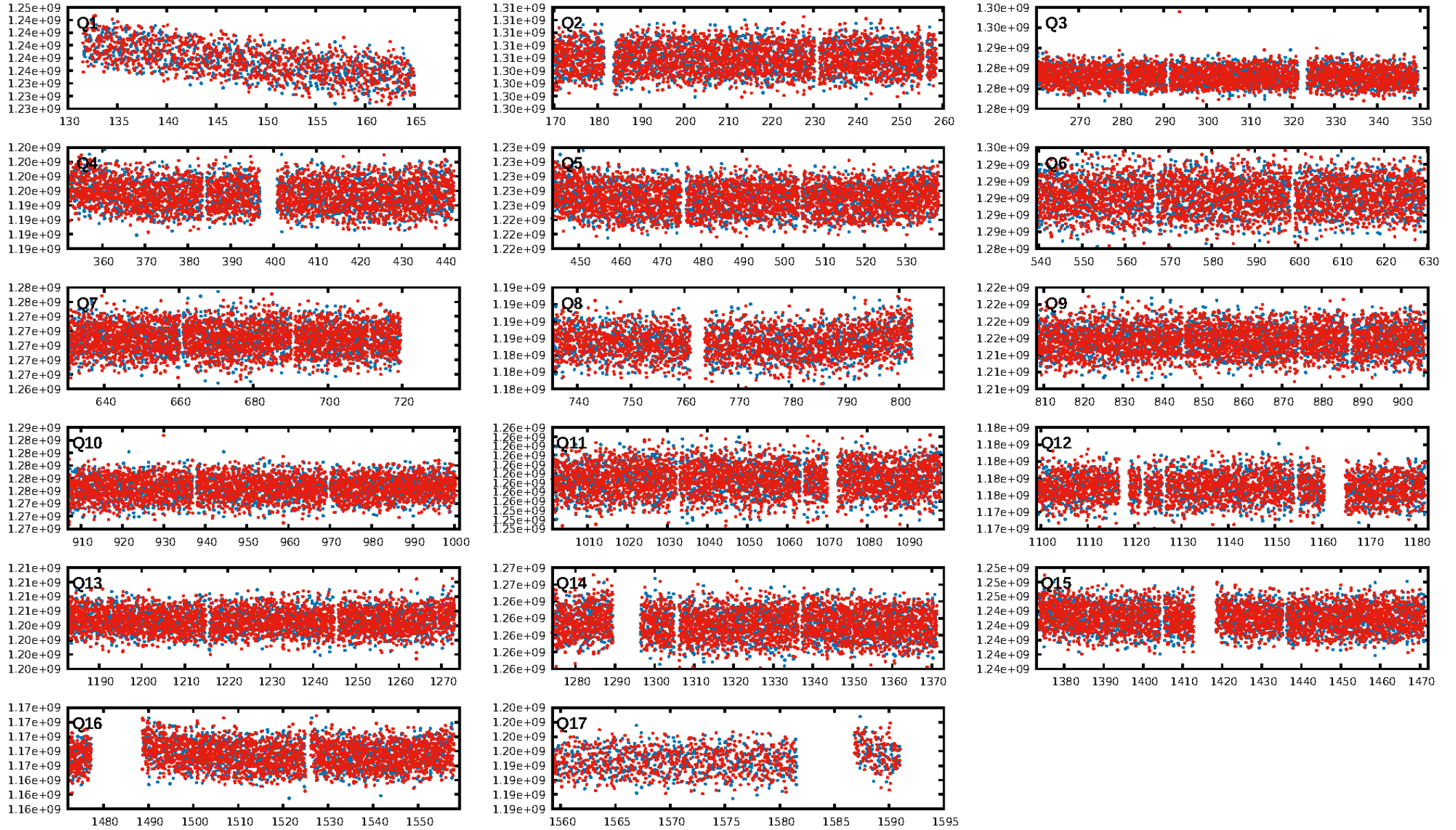
DV Fit Results:

Period = 0.58505 [0.00001] d
Epoch = 132.0100 [0.0038] BKJD
Rp/R* = 0.0052 [0.0055]
a/R* = 1.21 [2.27]
b = 0.10 [58.91]
Seff = 136037.17 [100090.90]
Teq = 4897 [901] K
Rp = 1.90 [2.17] Re
a = 0.0175 [0.0079] AU
Ag = 1.53 [3.39] [0.16σ]
Teffp = 8426 [4414] K [0.78σ]

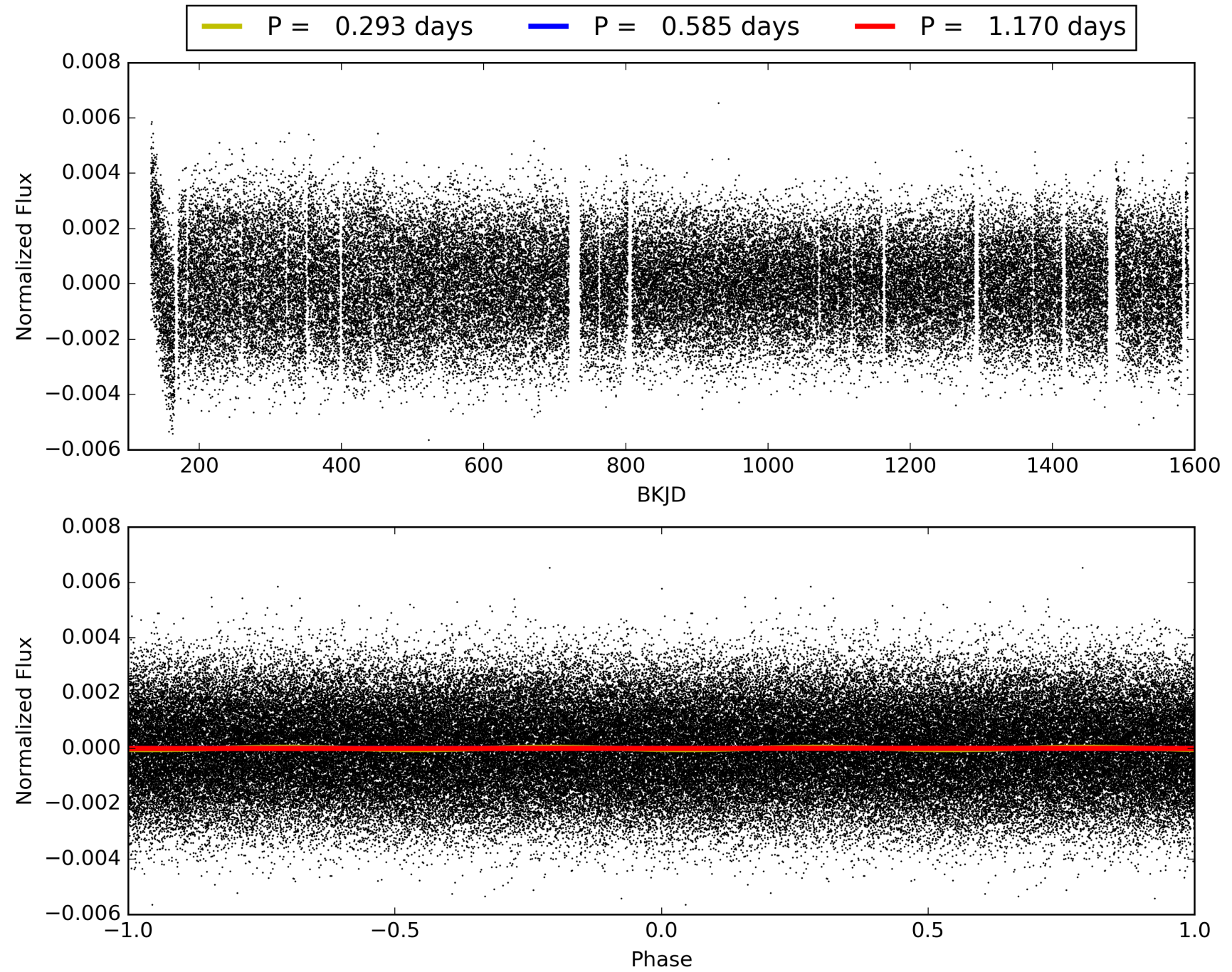
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [24.12σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.98e-06
RollingBand-fgt: 0.99 [2178/2191]
GhostDiagnostic-chr: 1.609
Centroid-sig: N/A
Centroid-so: 1.193 arcsec [4.34σ]
OotOffset-rm: 0.891 arcsec [0.68σ]
KicOffset-rm: 1.183 arcsec [0.94σ]
OotOffset-st: 0/4/0/3 [7]
KicOffset-st: 0/4/0/3 [7]
DiffImageQuality-fgm: 0.00 [0/7]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007287118-01, PDC Light Curves

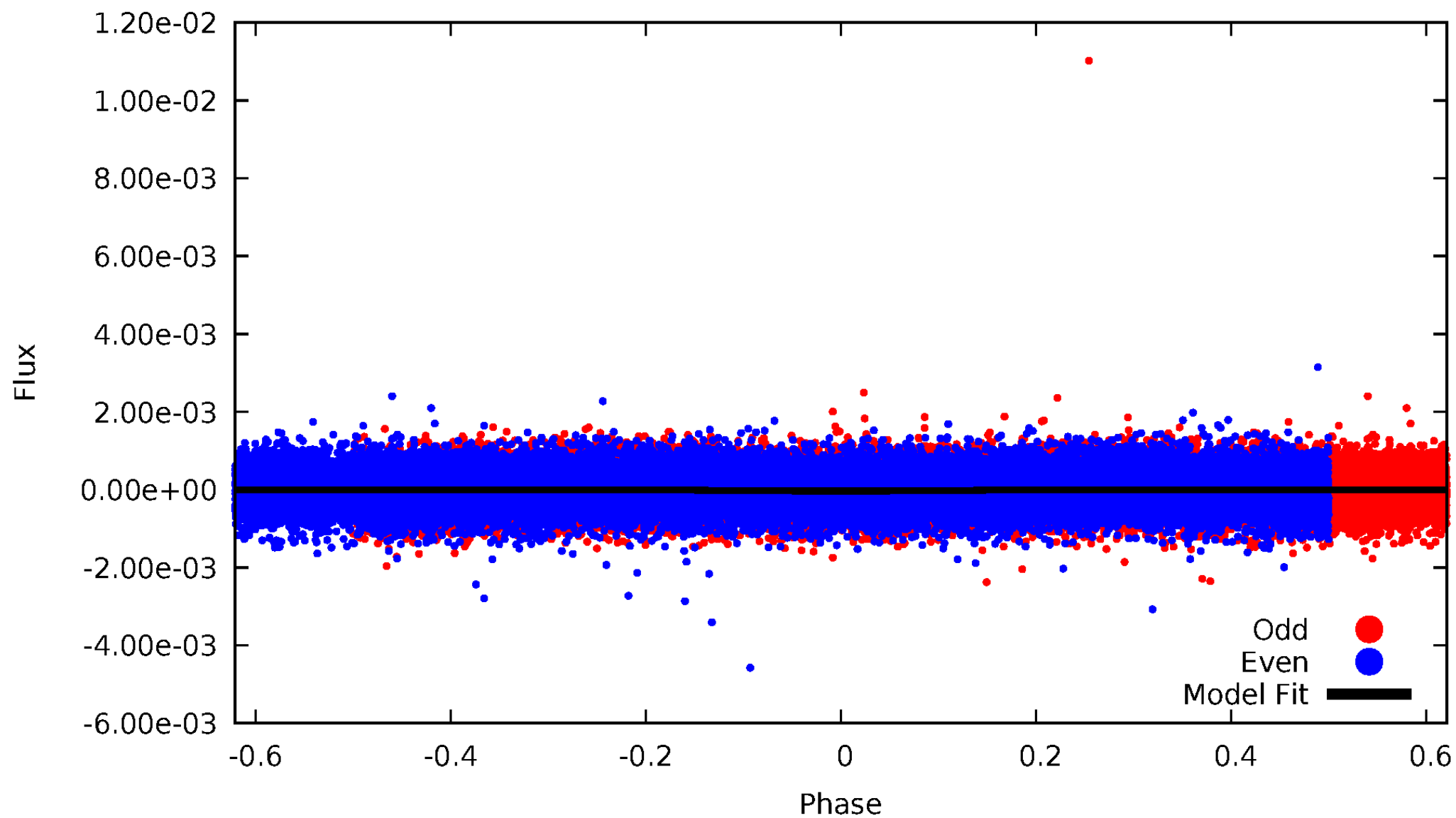


TCE 007287118-01



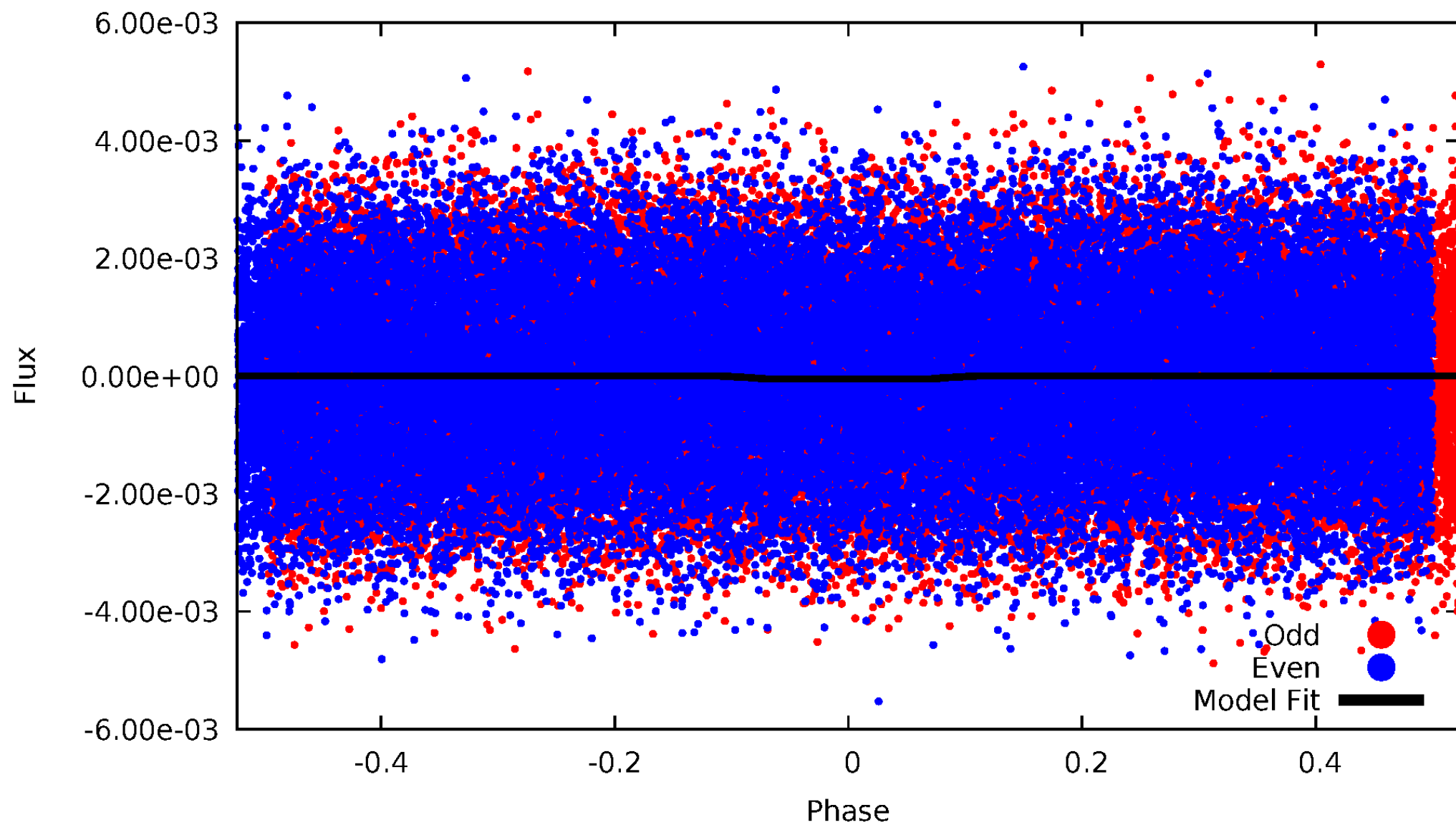
DV Odd/Even

TCE 007287118-01

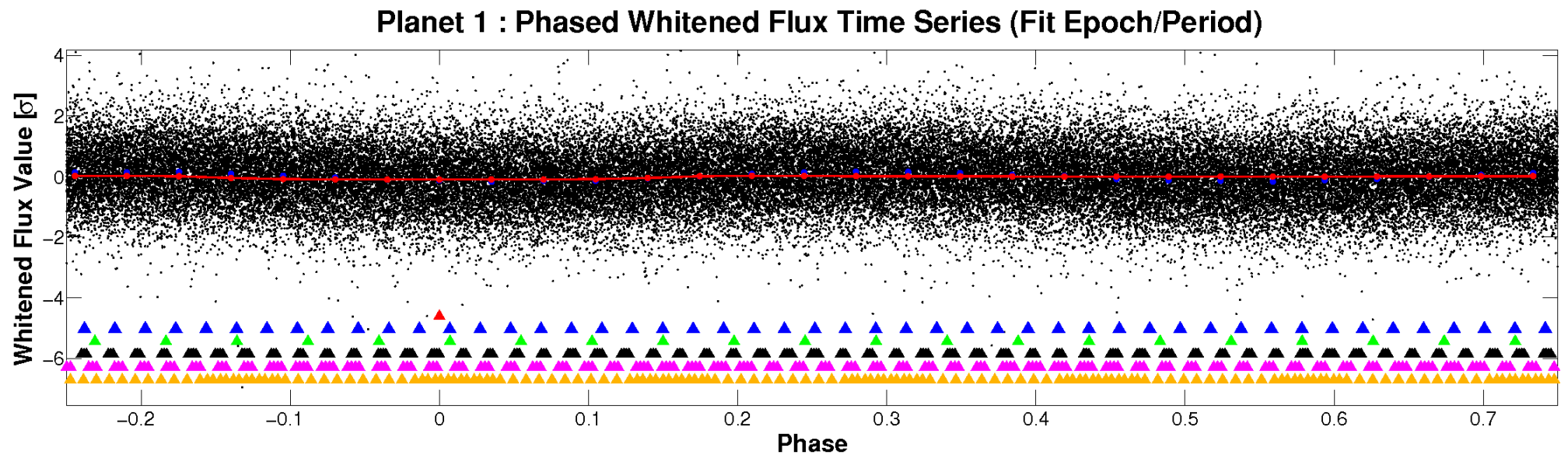
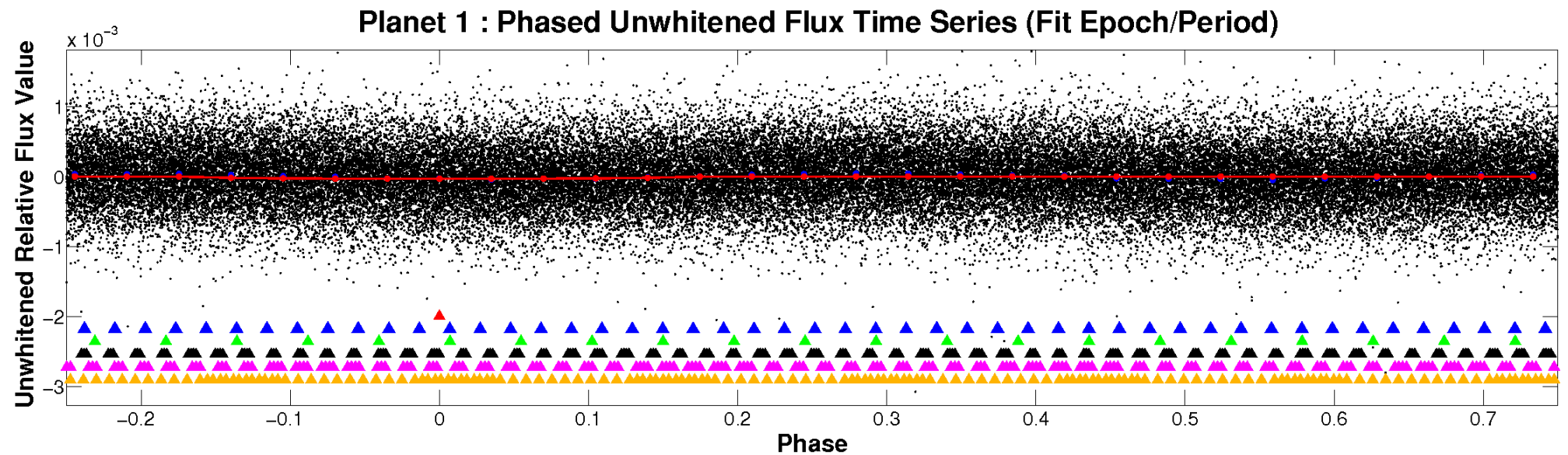


ALT Odd/Even

TCE 007287118-01

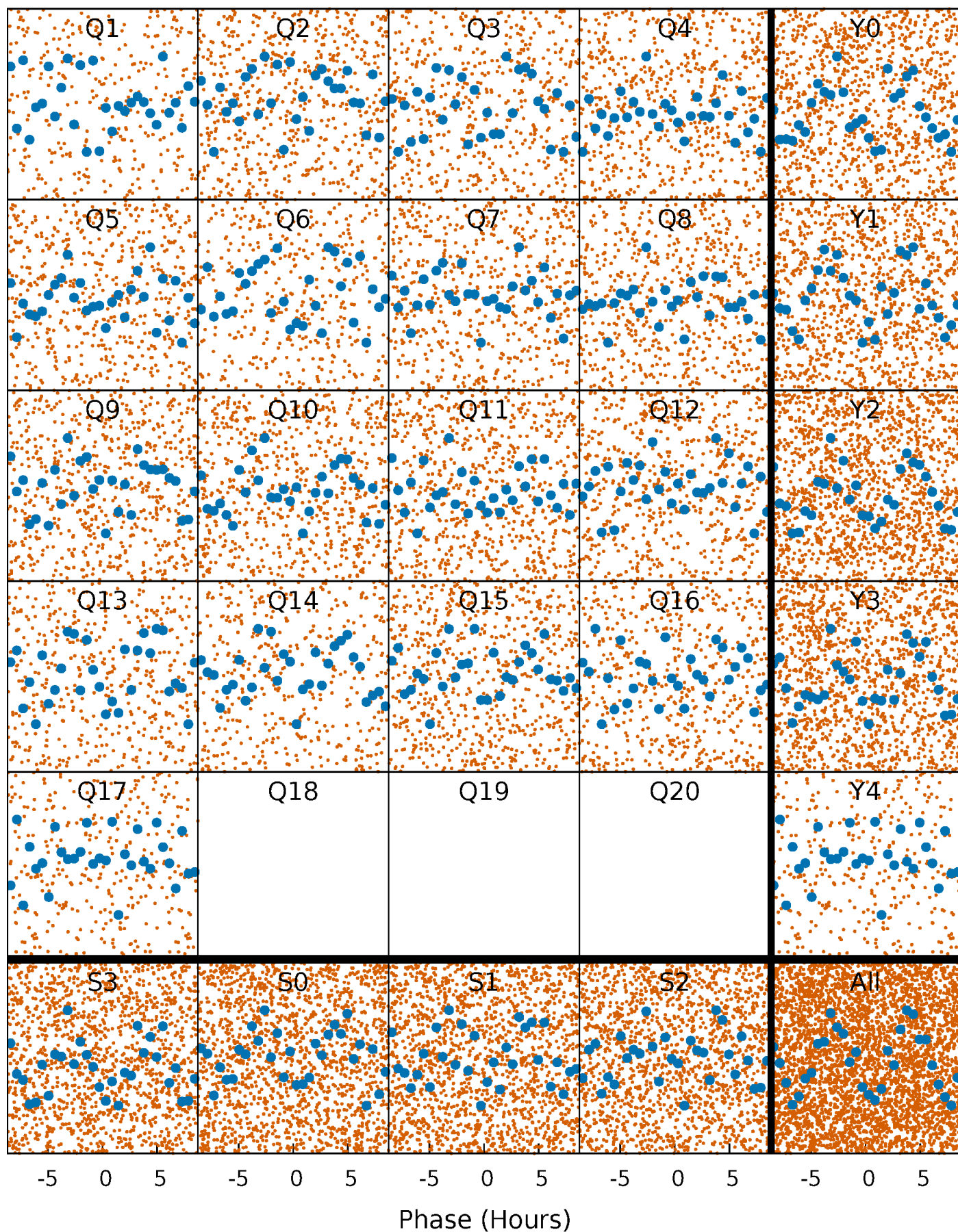


Non-Whitened Vs. Whitened Light Curve



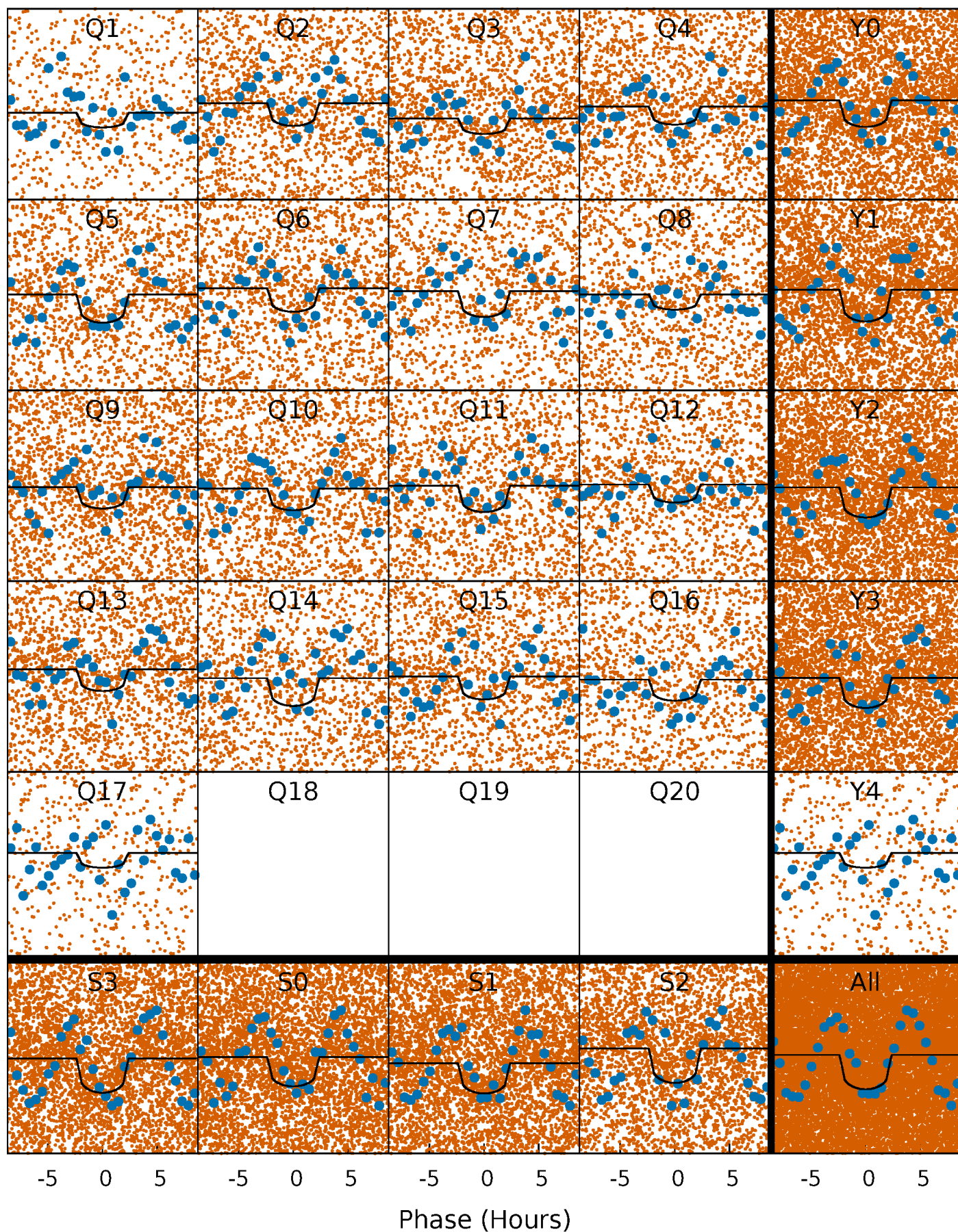
PDC Quarter-Phased Transit Curves

TCE 007287118-01 P= 0.585050 Days $T_0=132.010013$ (BKJD)



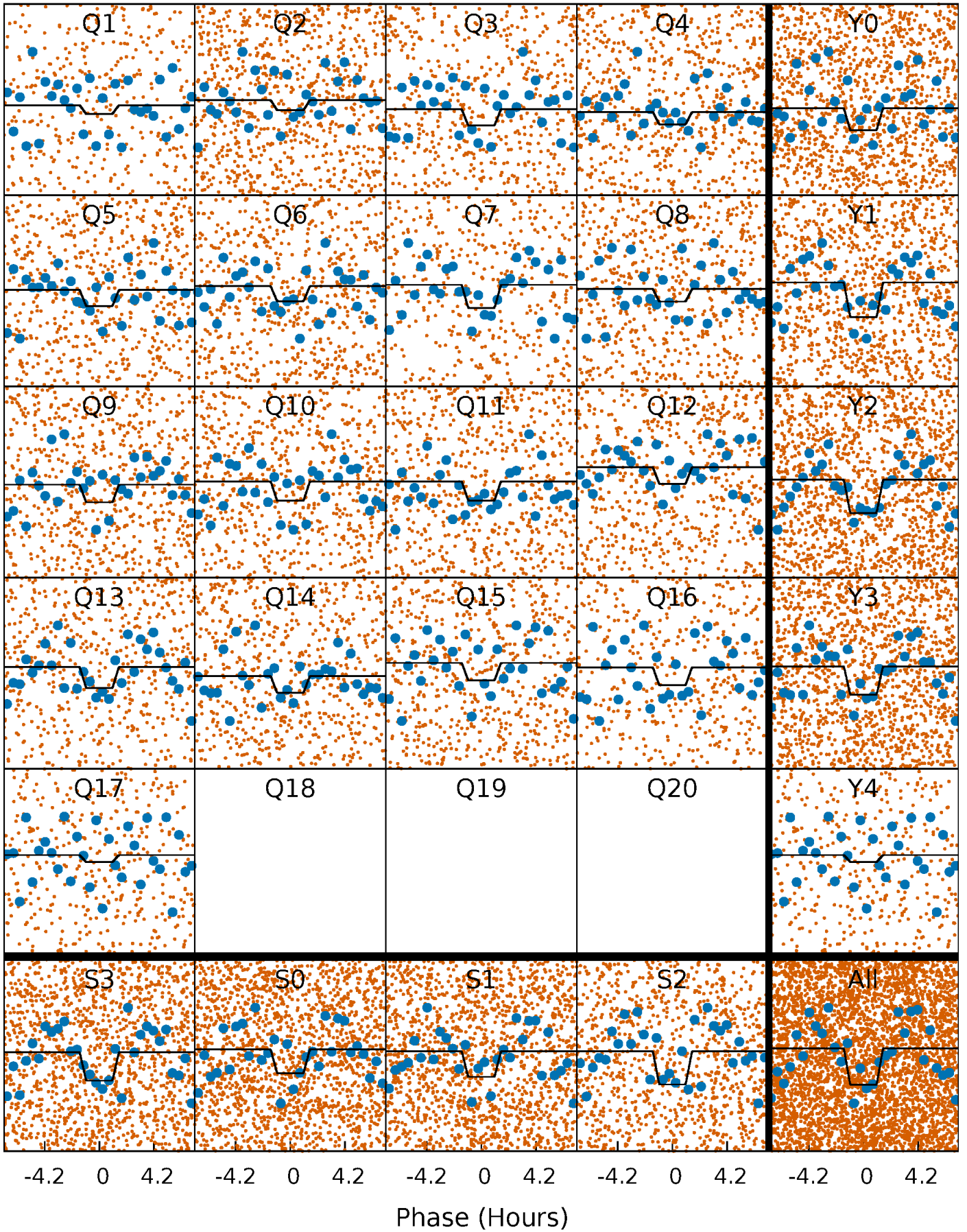
DV Quarter-Phased Transit Curves

TCE 007287118-01 P= 0.585050 Days $T_0=132.010013$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

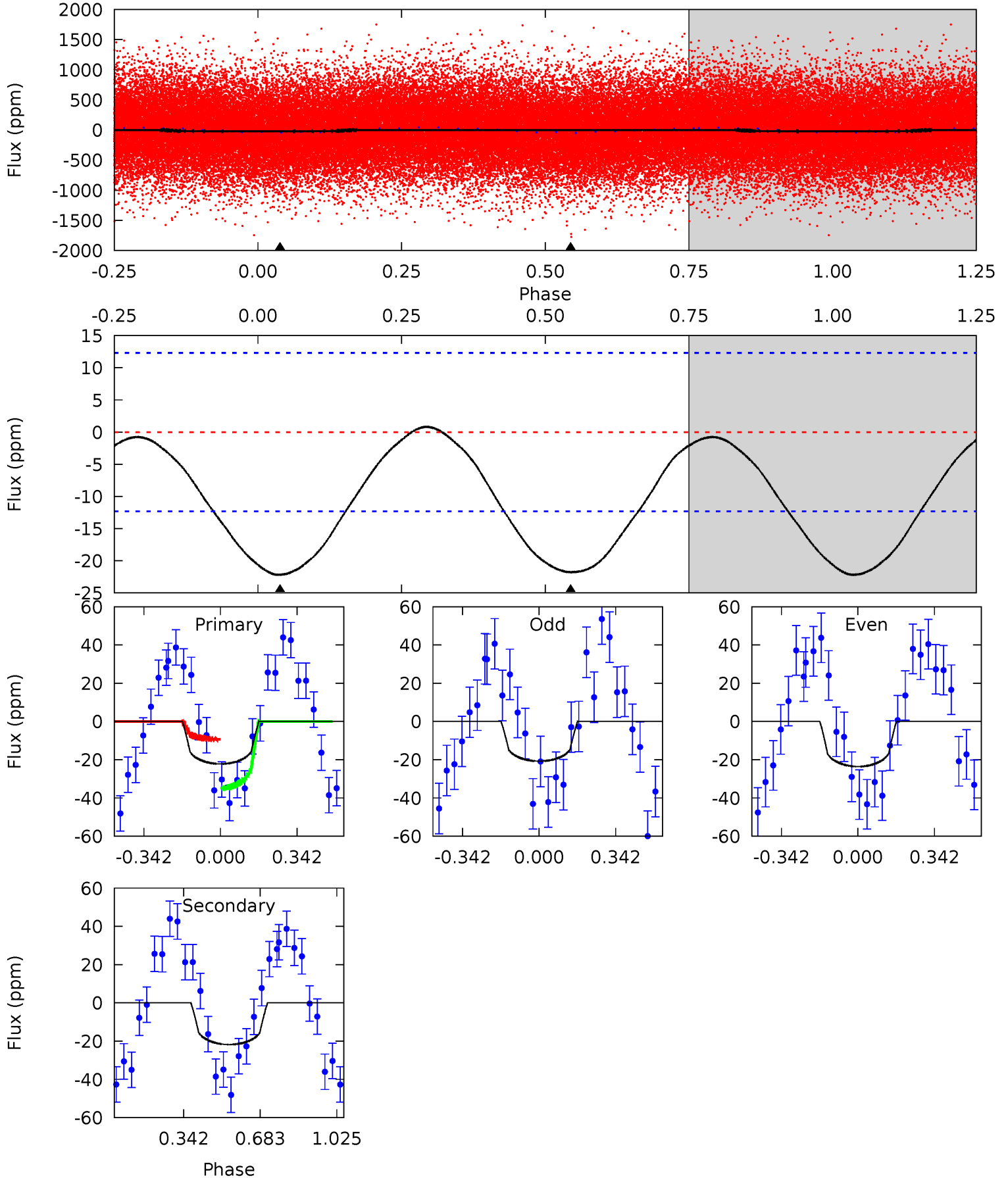
TCE 007287118-01 P= 0.585073 Days $T_0=132.005982$ (BKJD)



DV Model-Shift Uniqueness Test

007287118-01, P = 0.585050 Days, E = 131.424963 Days

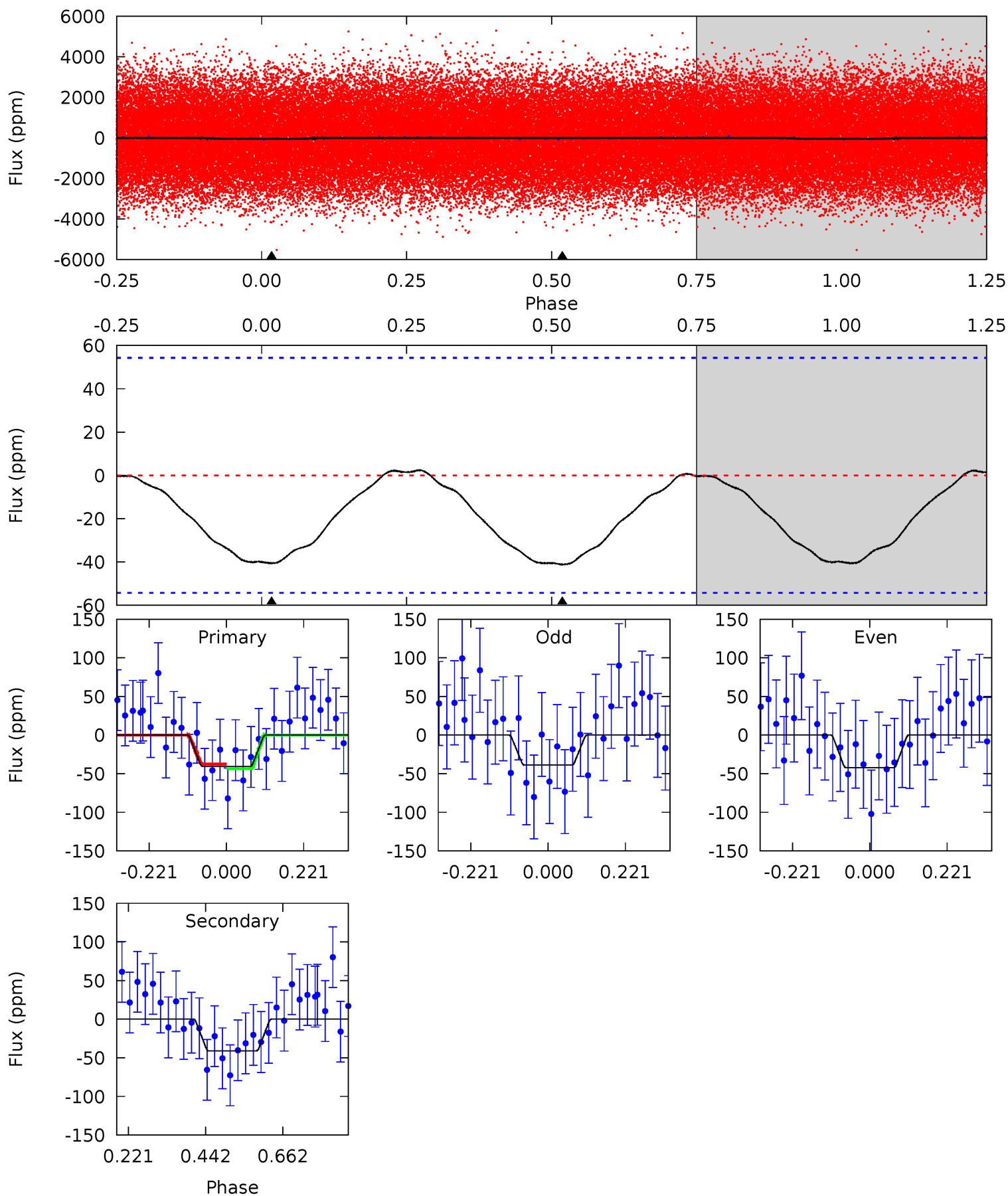
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.75	7.61	0	0	4.30	0.95	0.26	7.75	7.75	7.61	7.61	0.49	0.98	0.04	4.50



Alt Model-Shift Uniqueness Test

007287118-01, P = 0.585073 Days, E = 131.420909 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.29	3.33	0	0	4.40	1.22	0.11	3.29	3.29	3.33	3.33	0.14	0.95	0.05	0.25



Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-22 ± 3	$2.07^{+1.86}_{-1.29}$	6587^{+580}_{-768}	5891^{+6414}_{-9635}	$0.821^{+5.000}_{-0.570}$
Alt.	-41 ± 12	$2.38^{+1.83}_{-1.42}$	6592^{+545}_{-782}	6658^{+6991}_{-2625}	$1.125^{+6.213}_{-0.746}$

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 $A_{obs} \gg 1.0$

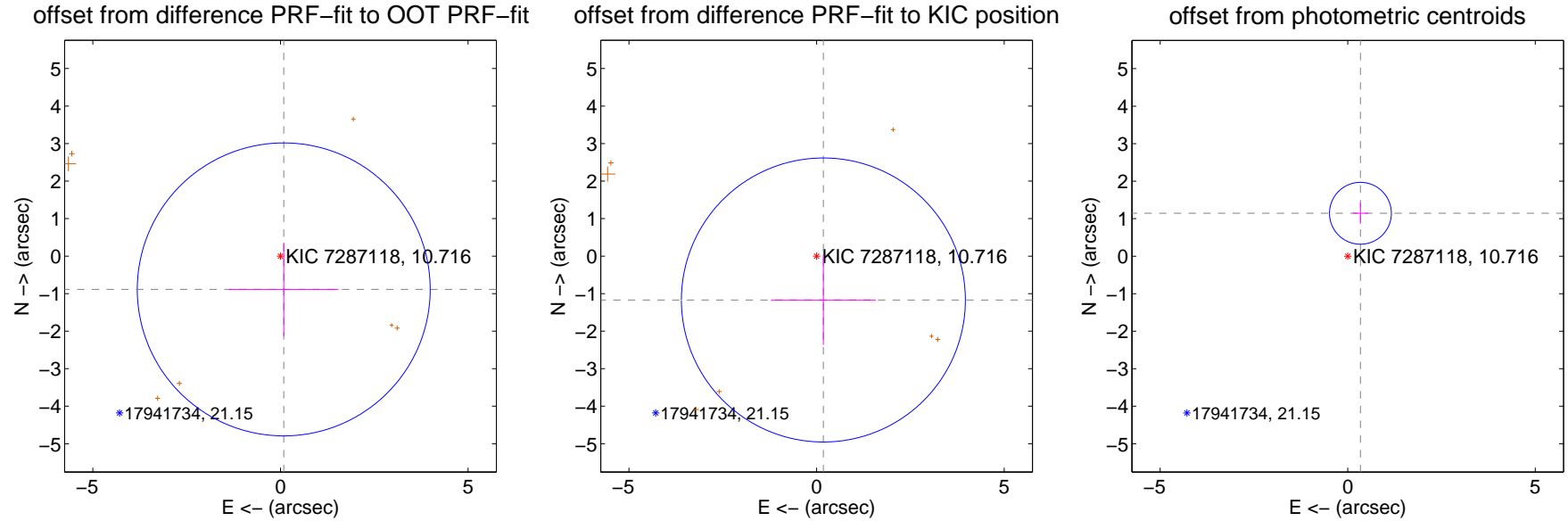
DV Centroid Data

Supplemental centroid analysis for 007287118-01. **Kepler magnitude: 10.72.** Transit SNR 12.61

There are 0 quarters with good PRF difference image offsets

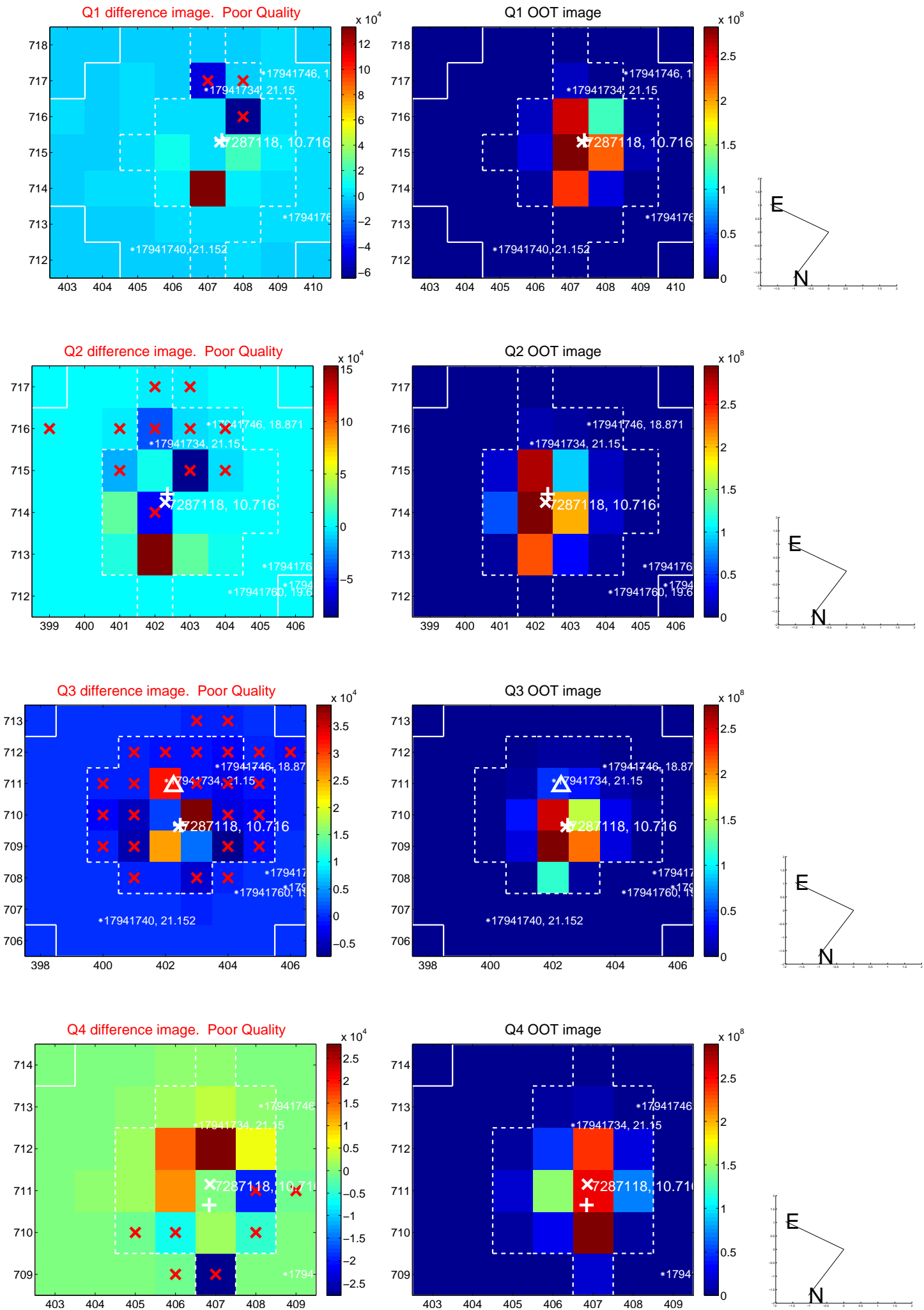
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.891 ± 1.301	0.68	-0.088 ± 1.457	-0.887 ± 1.244
PRF-fit source offset from KIC position	1.183 ± 1.262	0.94	-0.181 ± 1.399	-1.169 ± 1.196
photometric centroid source offset	1.19 ± 0.27	4.34	-0.34 ± 0.21	1.14 ± 0.28

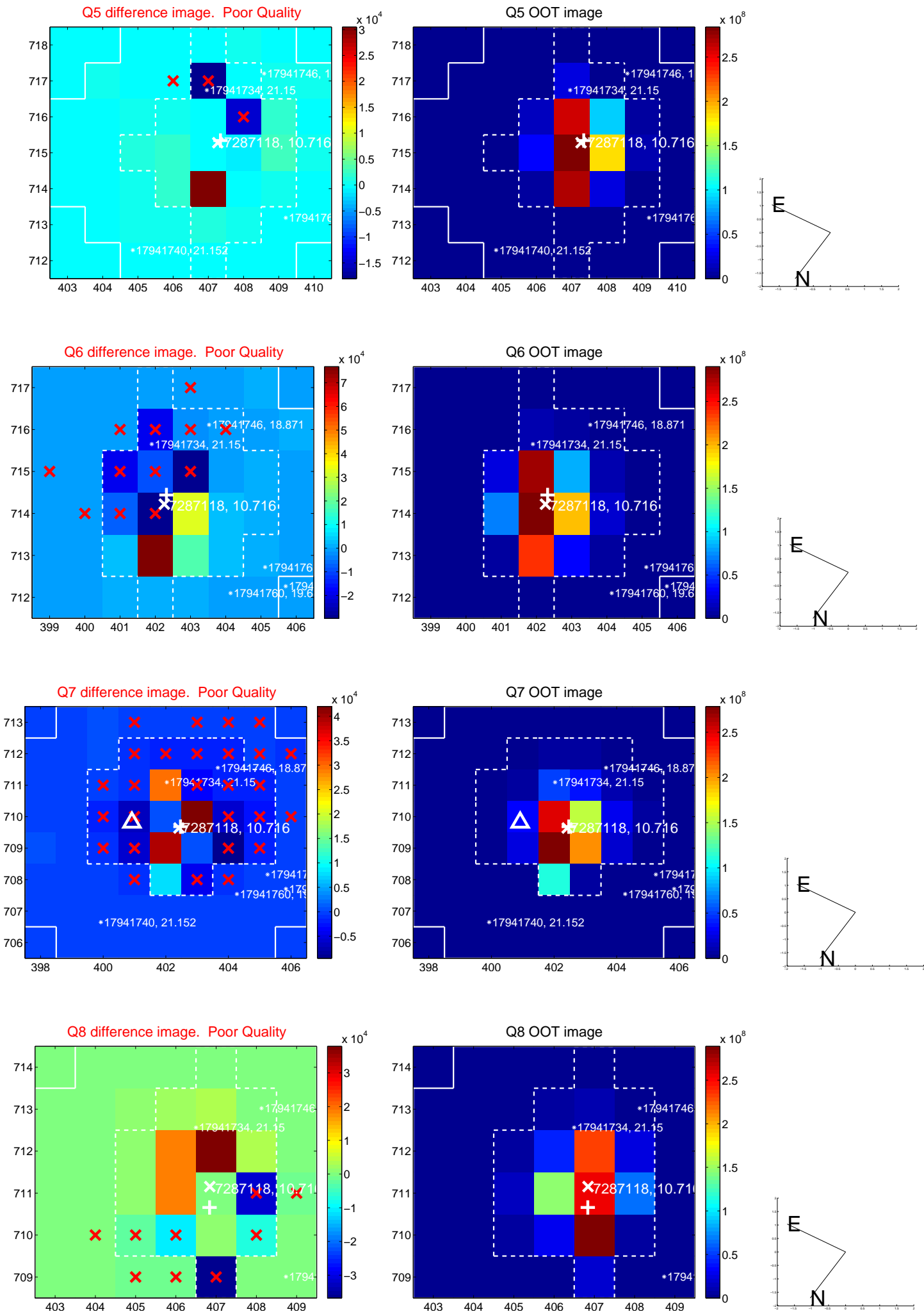


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

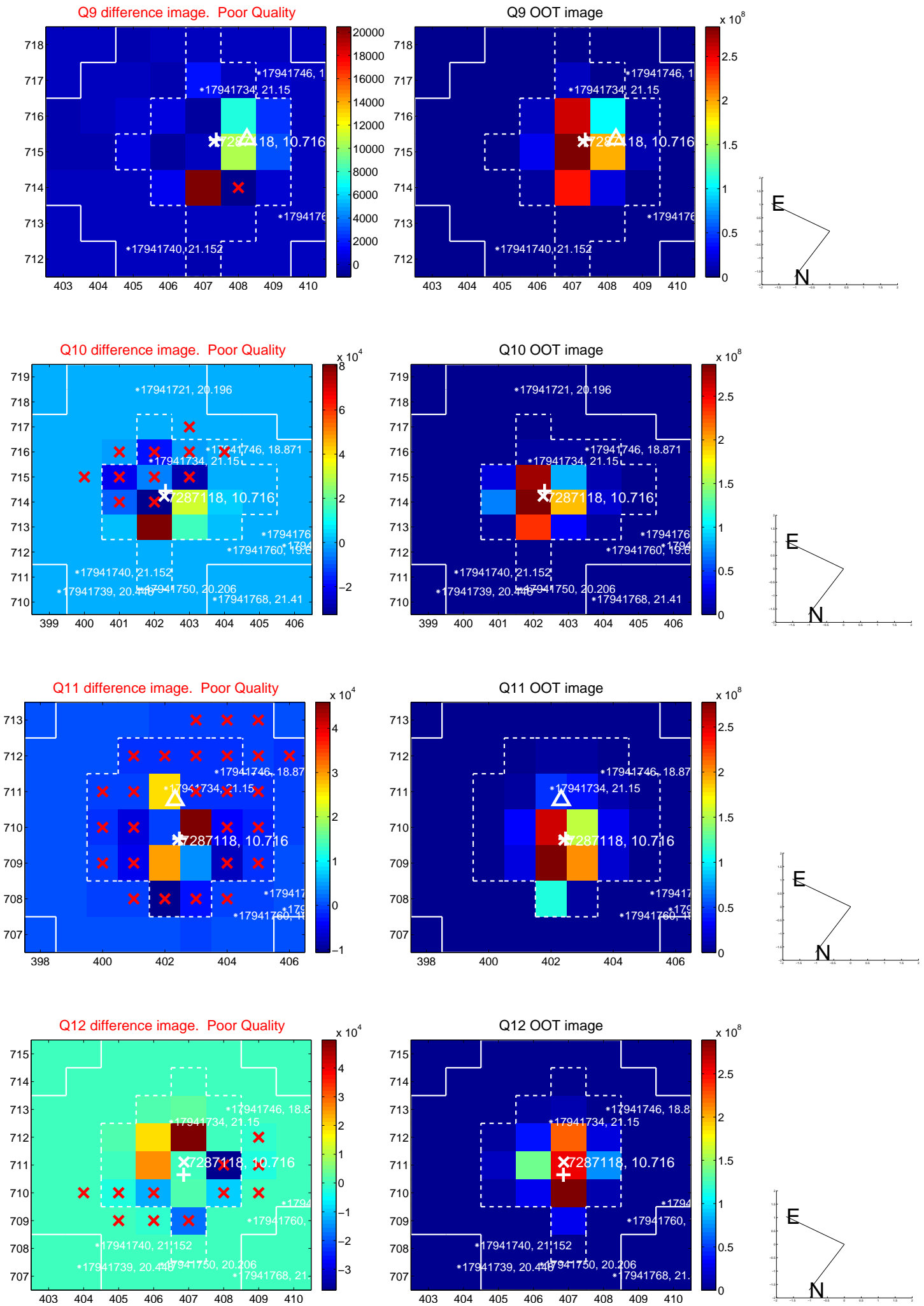
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



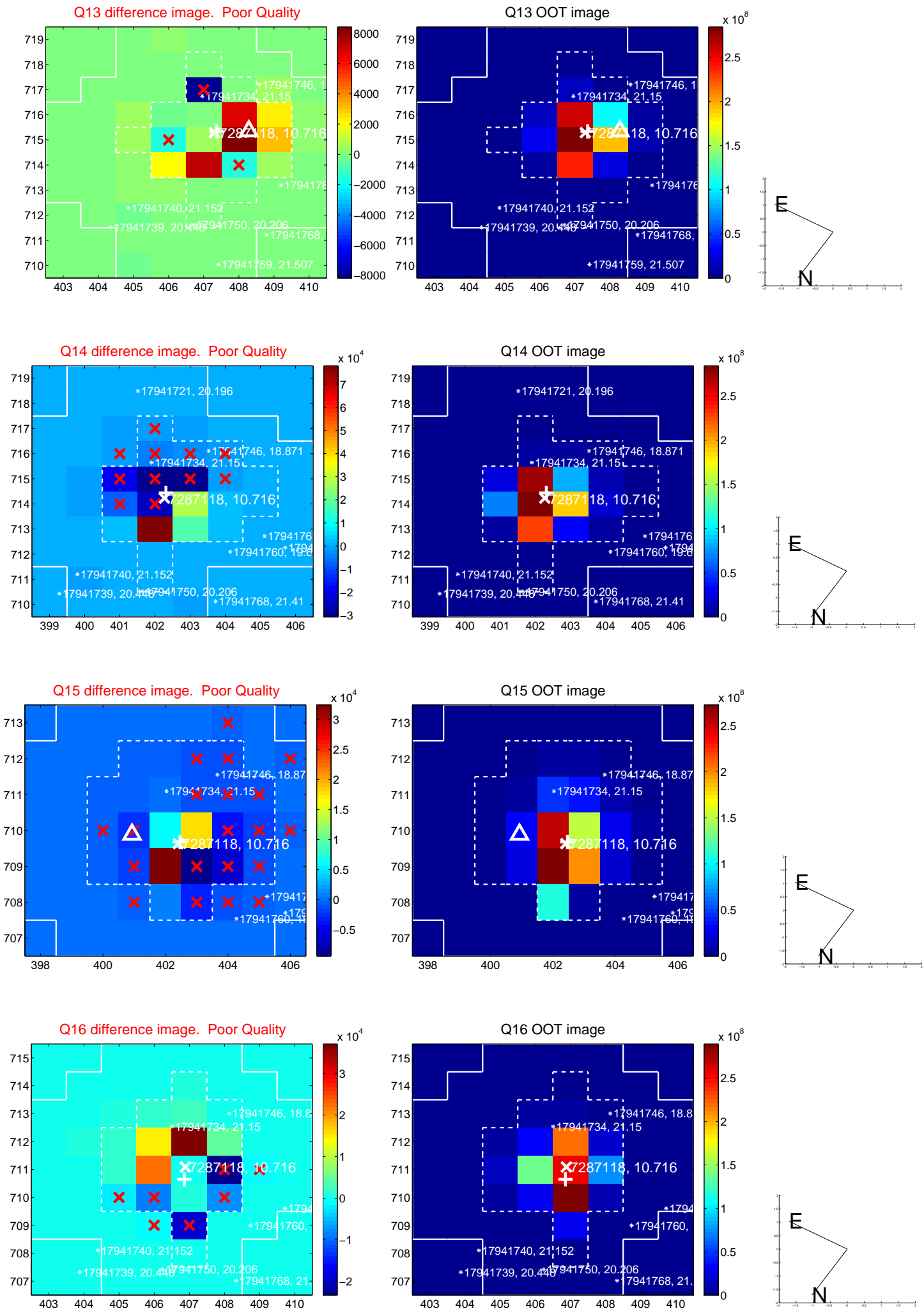
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



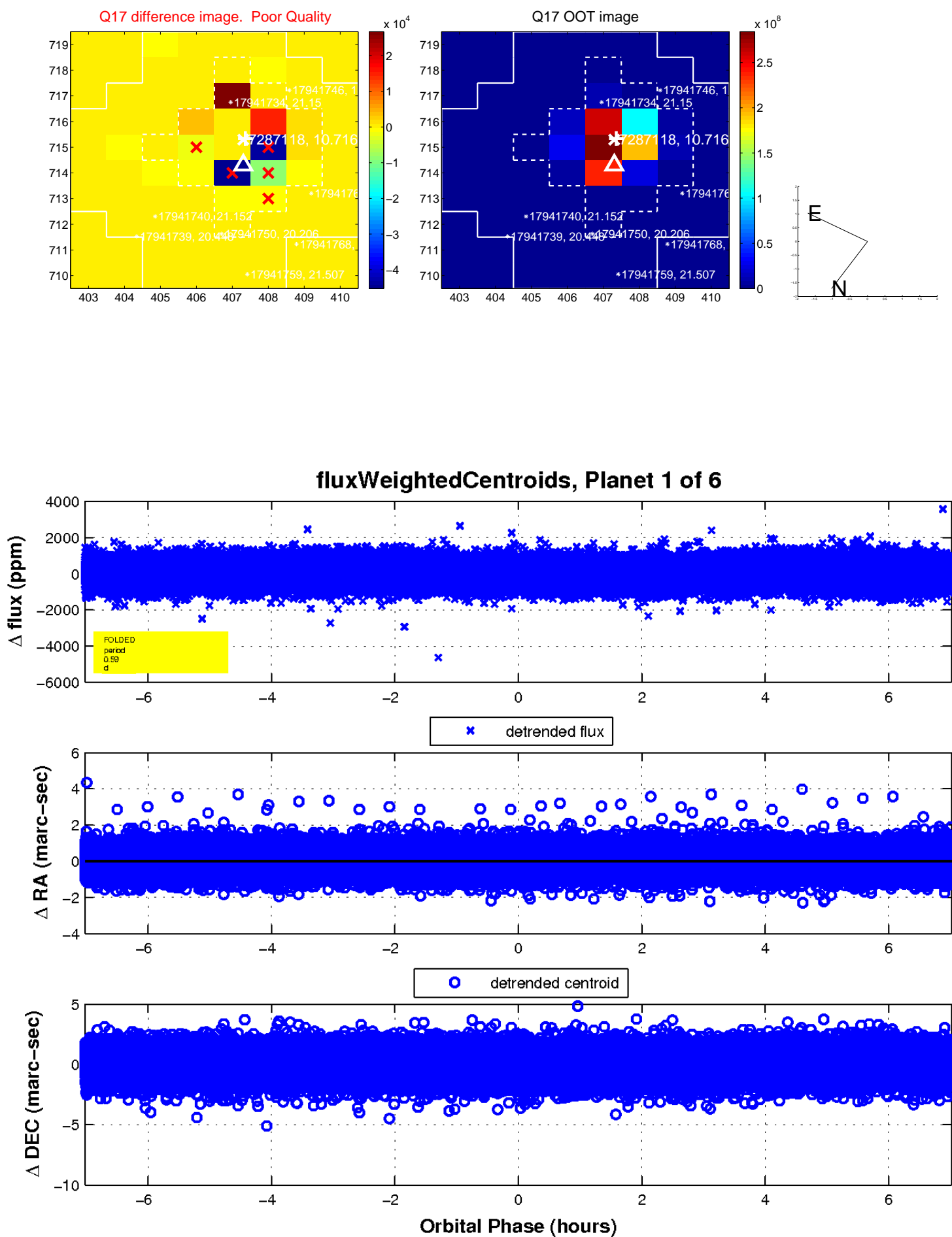
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

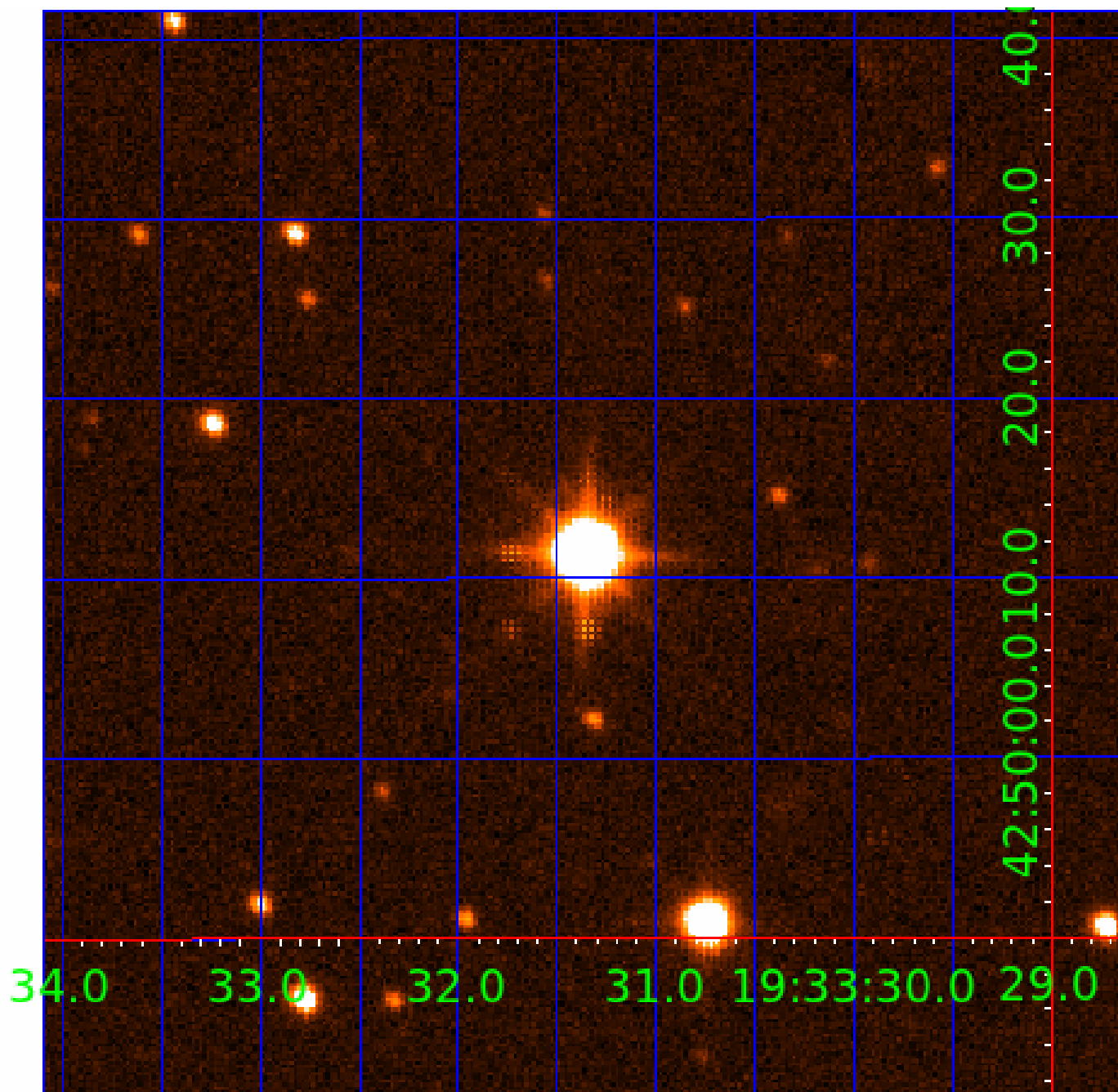


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

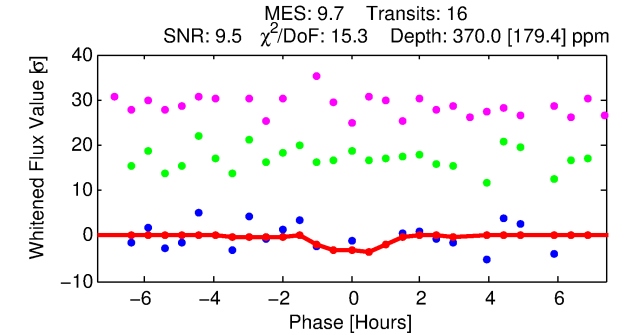
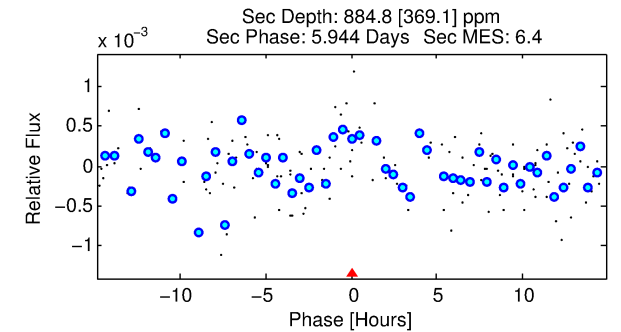
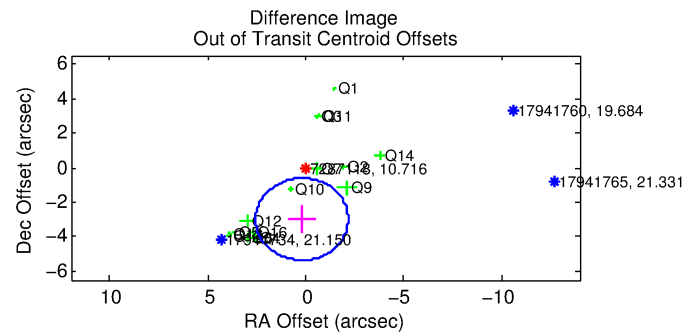
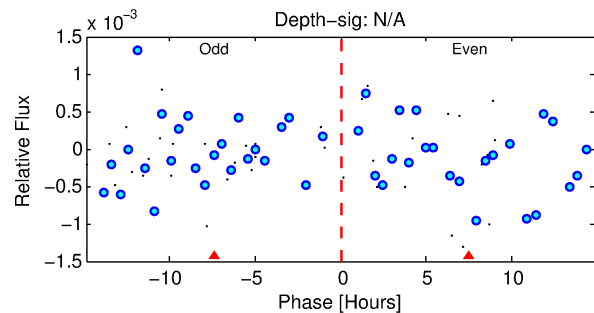
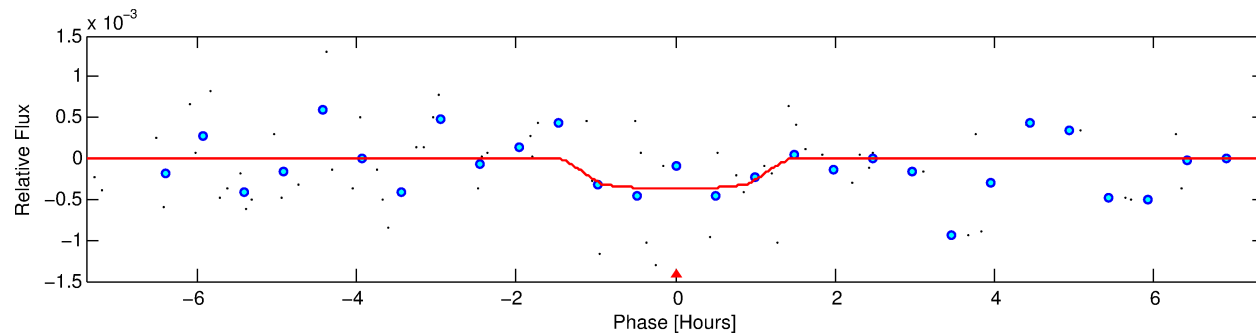
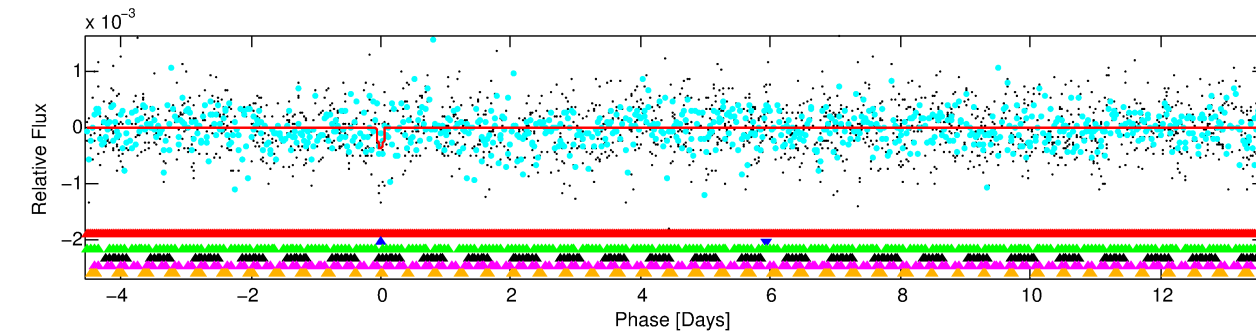
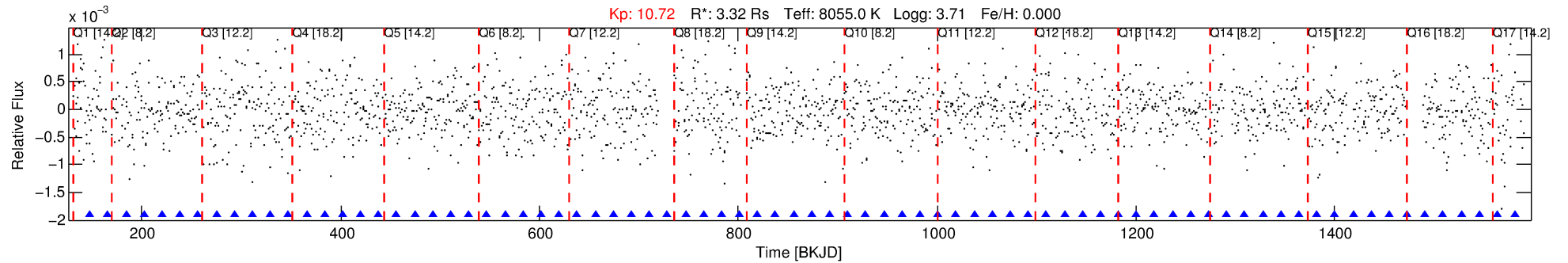
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-02

No Significant Match Found

DV One-Page Summary

KIC: 7287118 Candidate: 2 of 6 Period: 18.148 d



DV Fit Results:

Period = 18.14850 [0.00061] d
Epoch = 148.0016 [0.0187] BKJD
Rp/R* = 0.0186 [0.0768]
a/R* = 45.69 [1070.98]
b = 0.61 [23.96]
Seff = 1395.71 [1026.91]
Teq = 1559 [287] K
Rp = 6.73 [27.99] Re
a = 0.1726 [0.0776] AU
Ag = 320.17 [2659.81] [0.12σ]
Teffp = 10193 [21095] K [0.41σ]

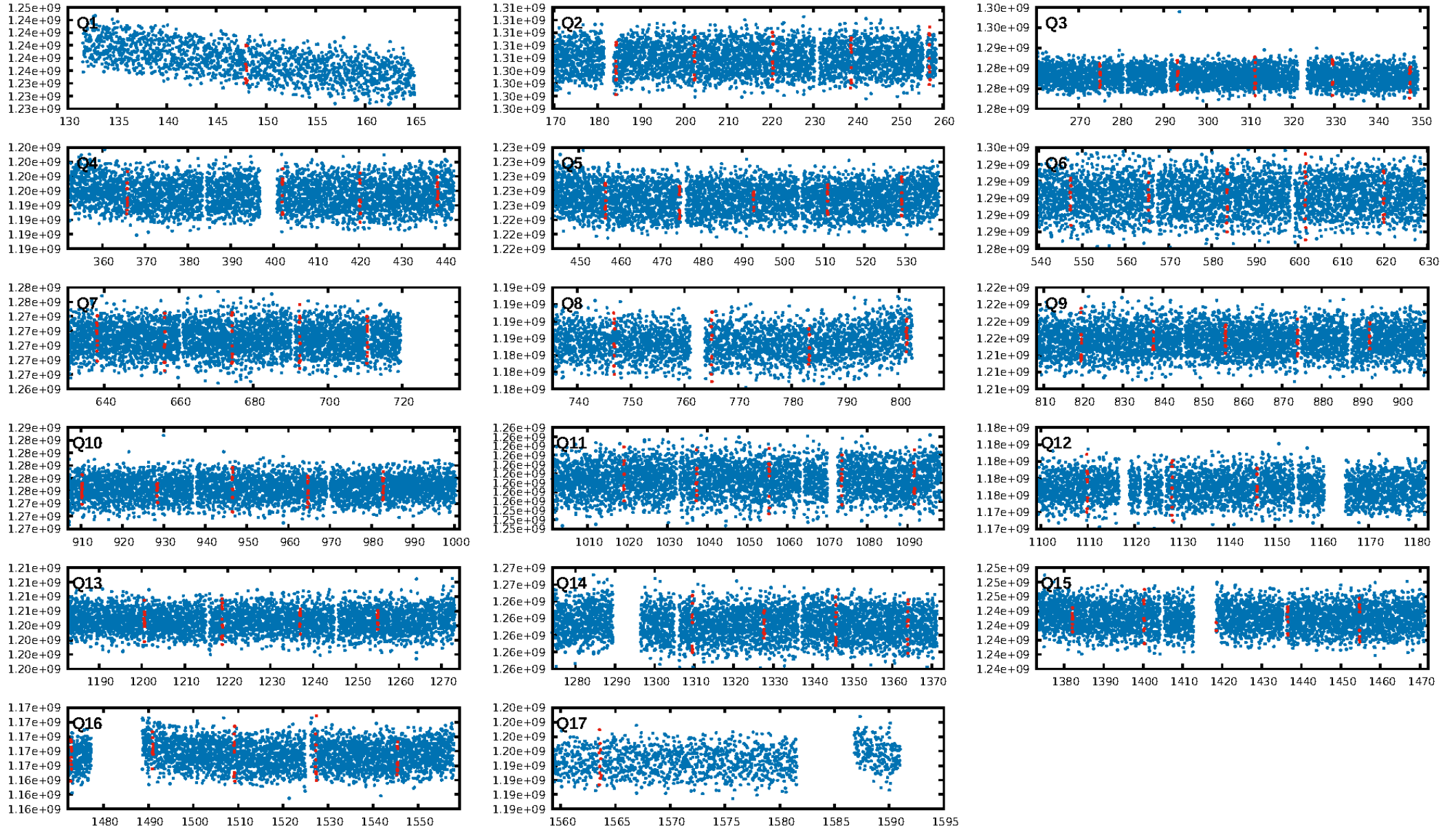
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [56.25σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 4.49e-07
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: 0.2974
Centroid-sig: N/A
Centroid-so: 0.431 arcsec [2.48σ]
OotOffset-rm: 2.994 arcsec [3.78σ]
KicOffset-rm: 3.201 arcsec [4.53σ]
OotOffset-st: 4/3/3/5 [15]
KicOffset-st: 4/3/3/5 [15]
DiffImageQuality-fgm: 0.40 [6/15]
DiffImageOverlap-fno: 0.00 [0/17]

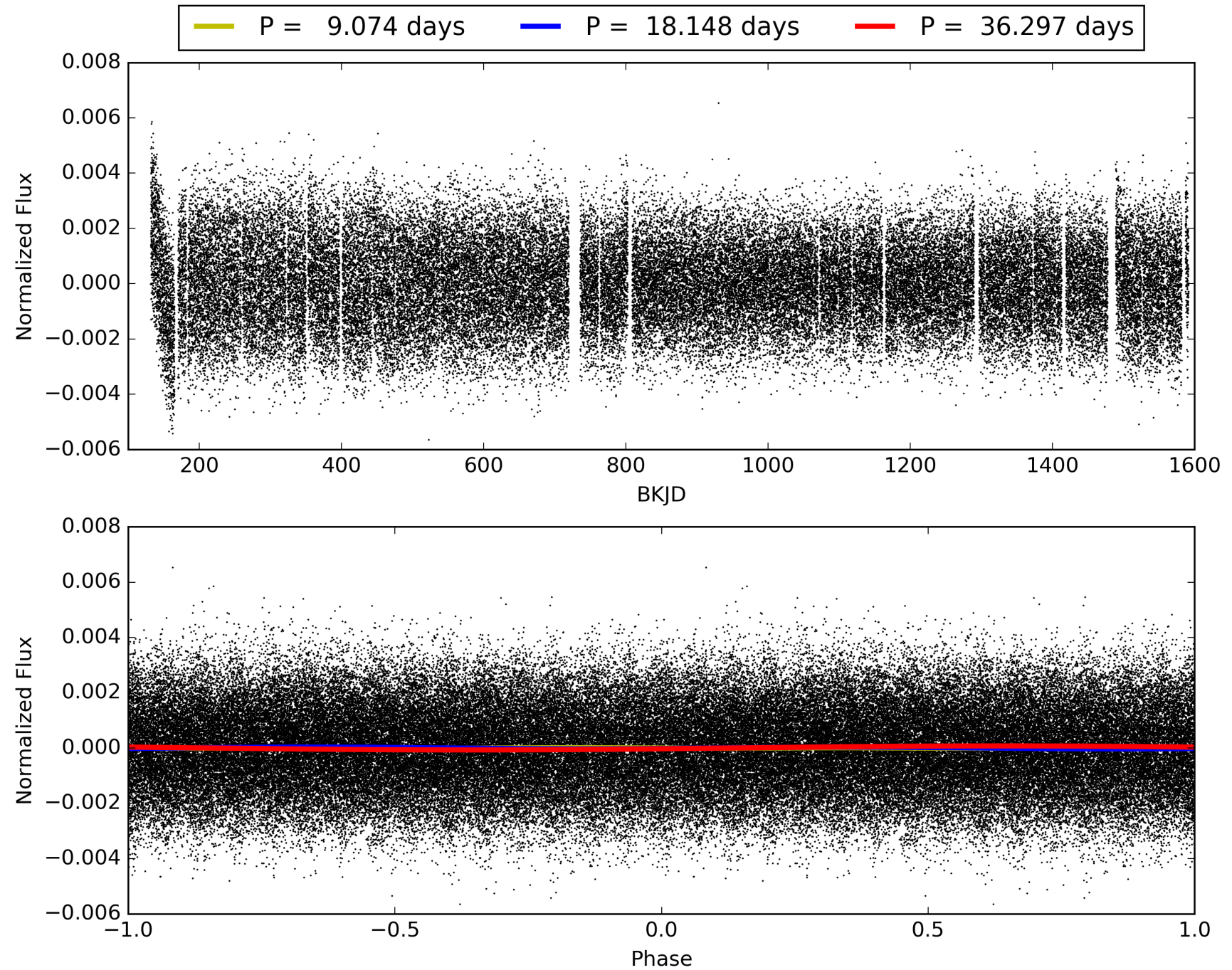
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:02:38 Z

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

TCE 007287118-02, PDC Light Curves

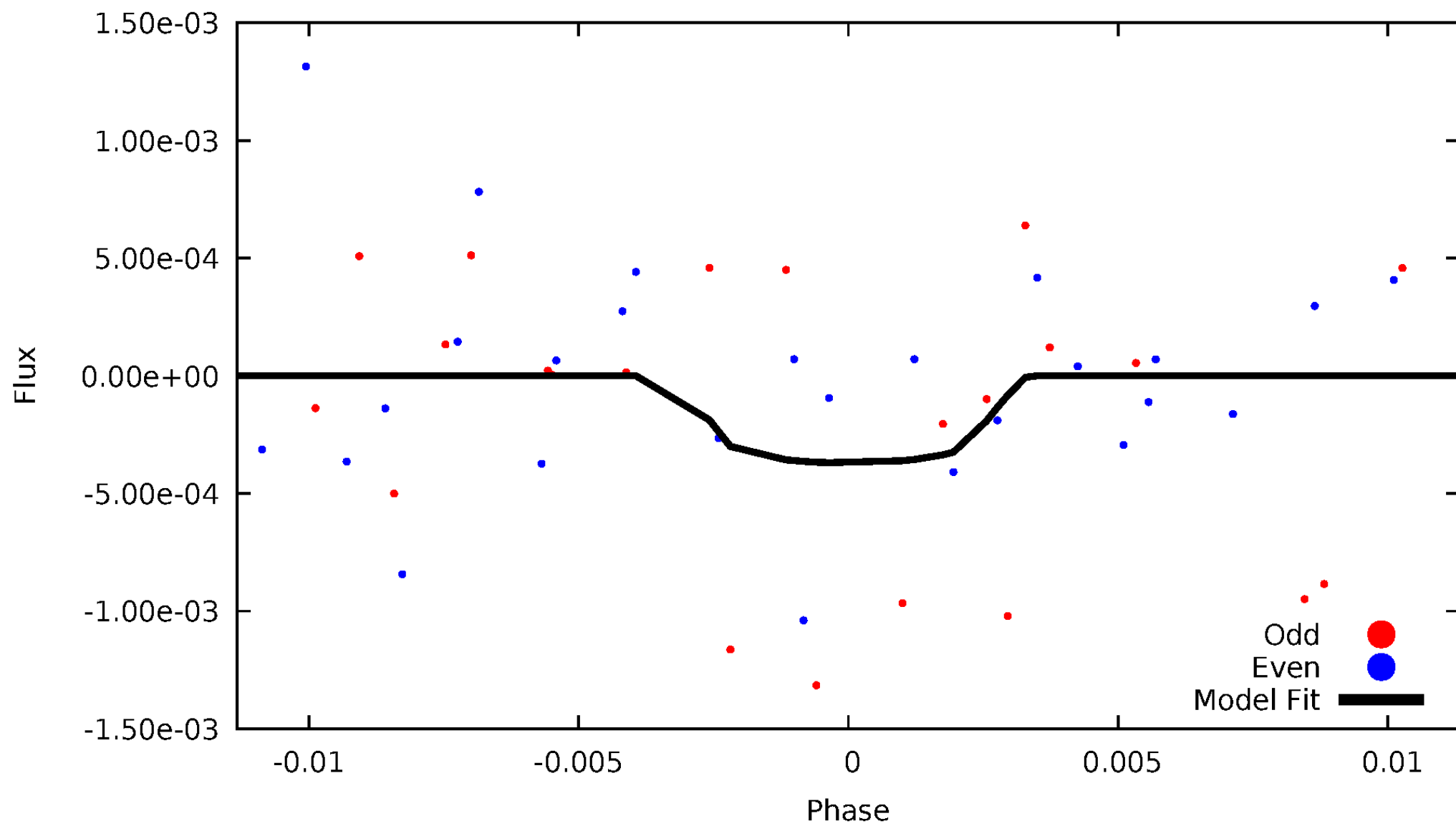


TCE 007287118-02



DV Odd/Even

TCE 007287118-02

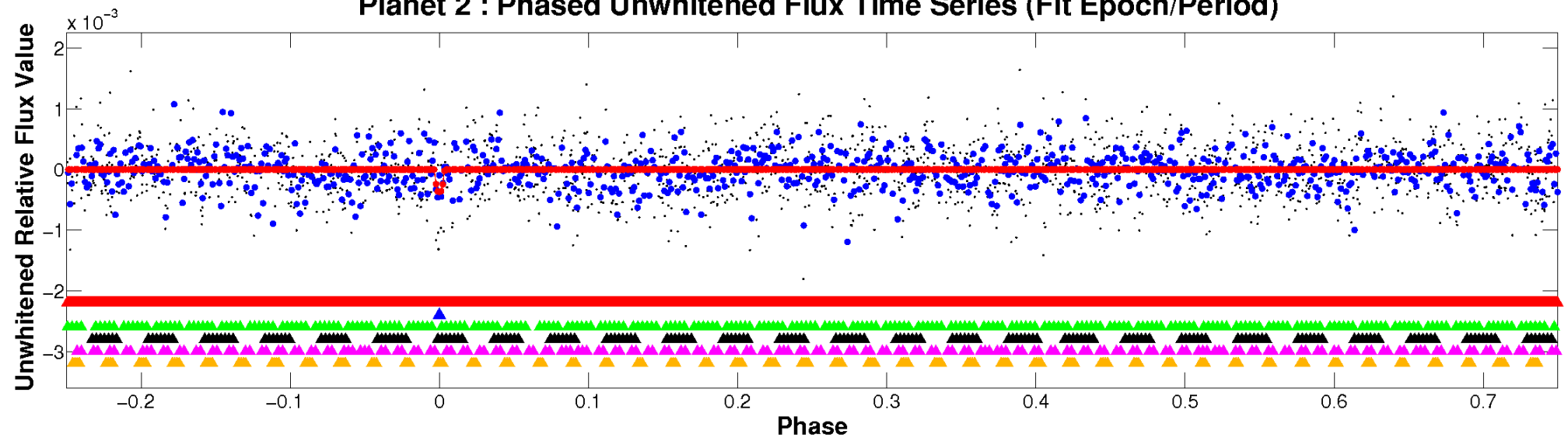


ALT Odd/Even

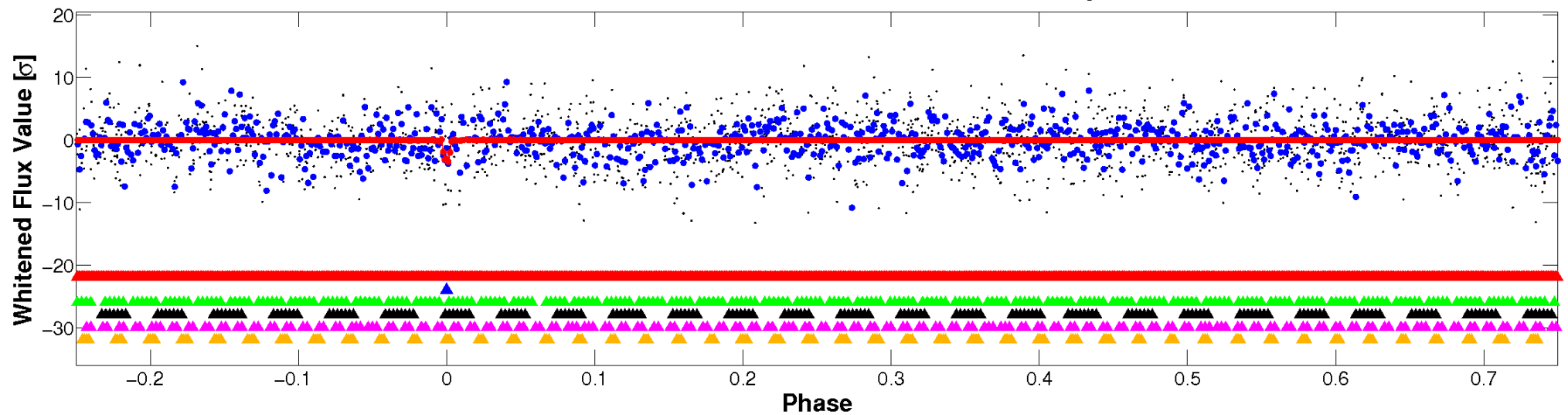
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

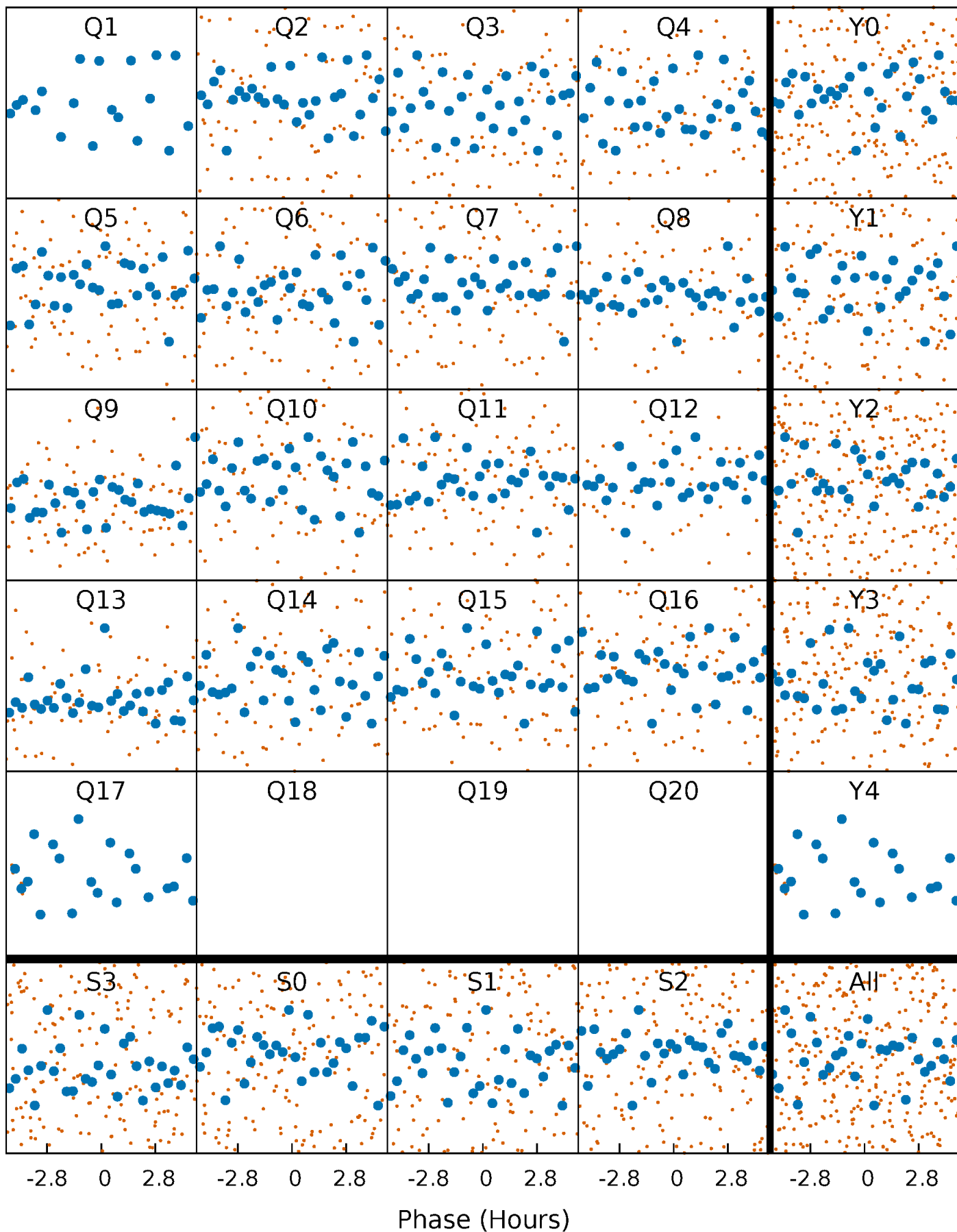


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



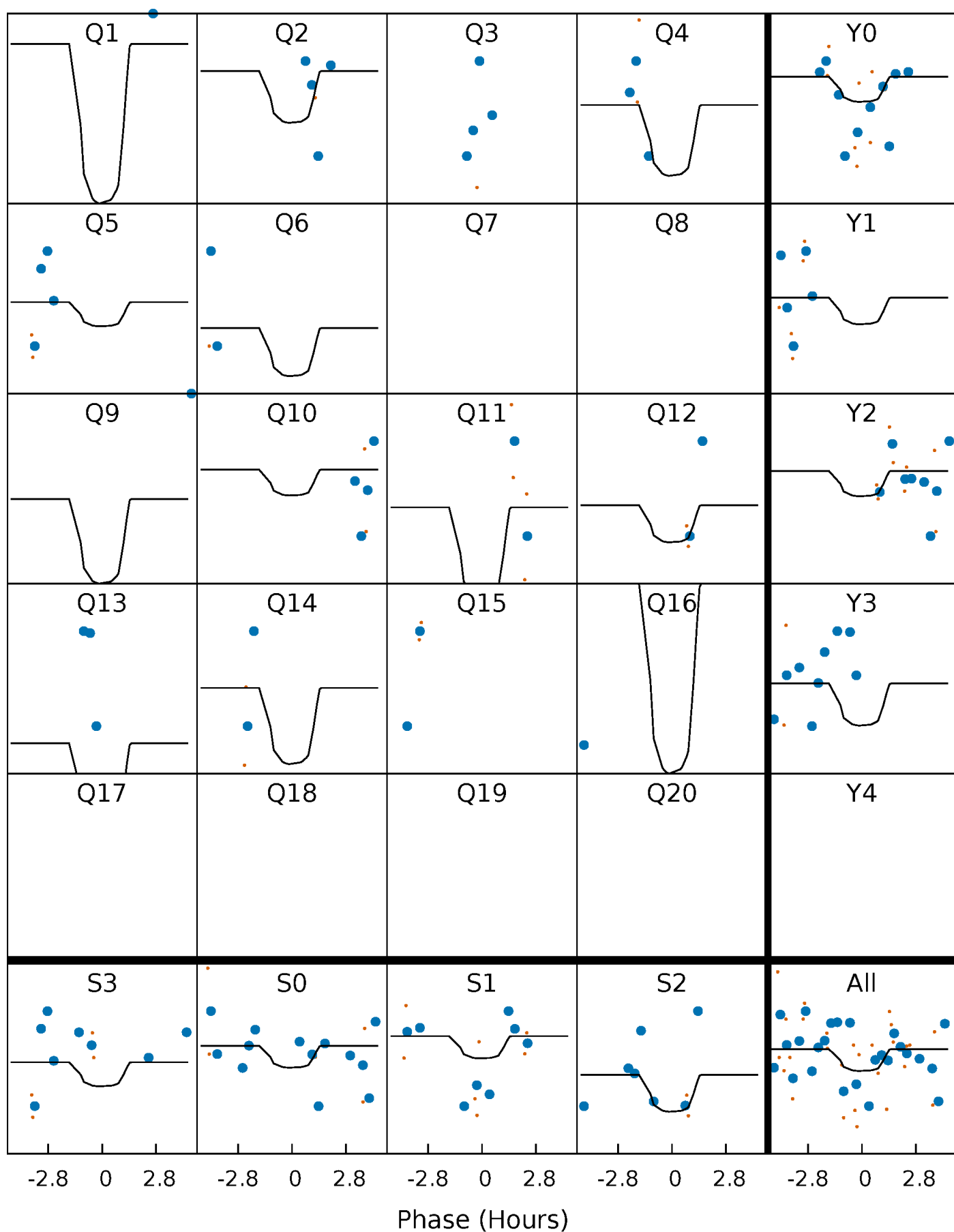
PDC Quarter-Phased Transit Curves

TCE 007287118-02 P= 18.148497 Days $T_0=148.001610$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007287118-02 P= 18.148497 Days $T_0=148.001610$ (BKJD)

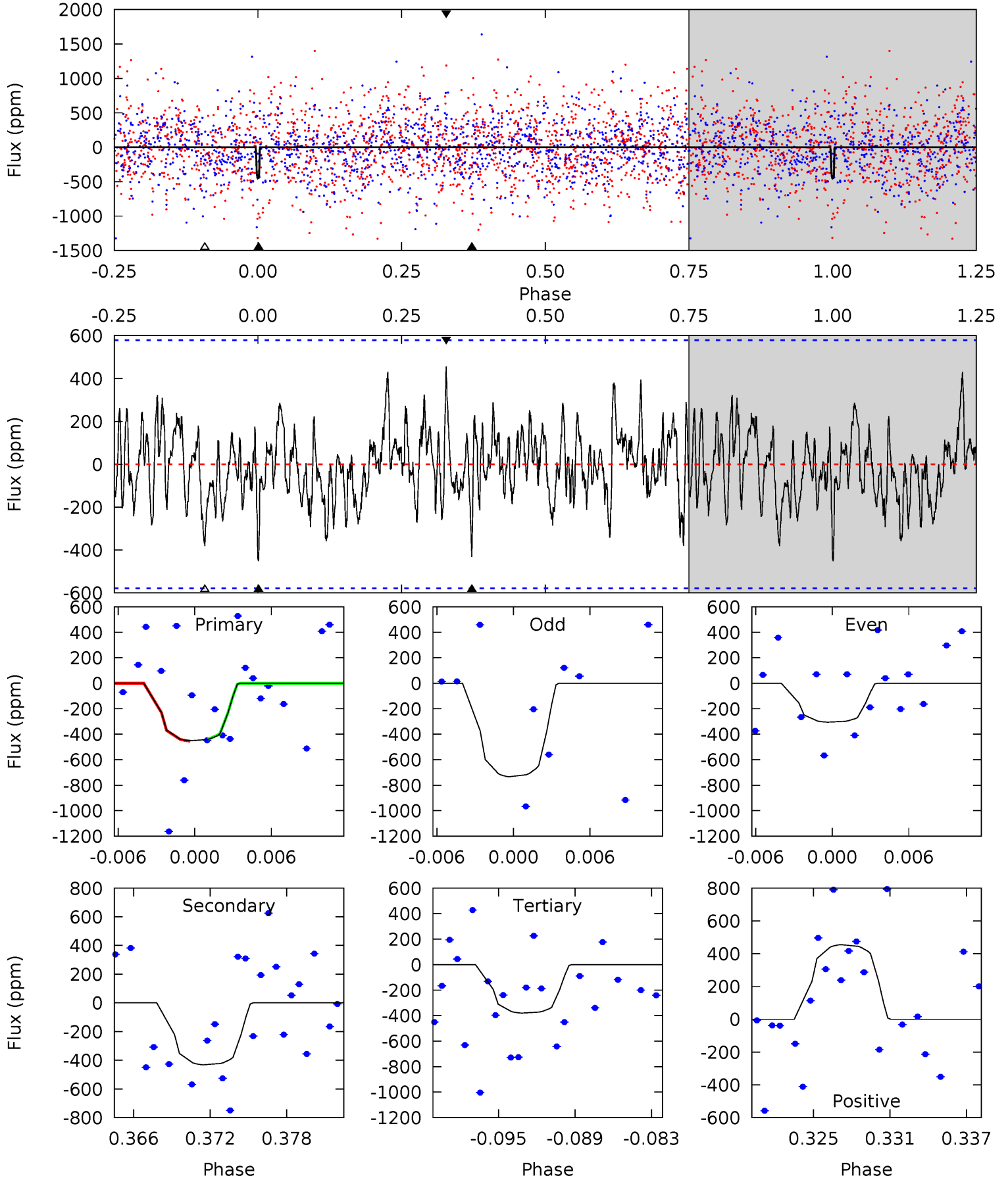


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007287118-02, P = 18.148497 Days, E = 129.853113 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.00	3.83	3.37	4.03	5.13	2.75	1.29	0.63	-0.03	0.46	-0.20	1.74	0	0.50	0.07



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-432±113	$18.84^{+21.23}_{-12.45}$	2107^{+161}_{-263}	4720^{+3799}_{-1074}	19^{+156}_{-15}
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 $A_{obs} \gg 1.0$

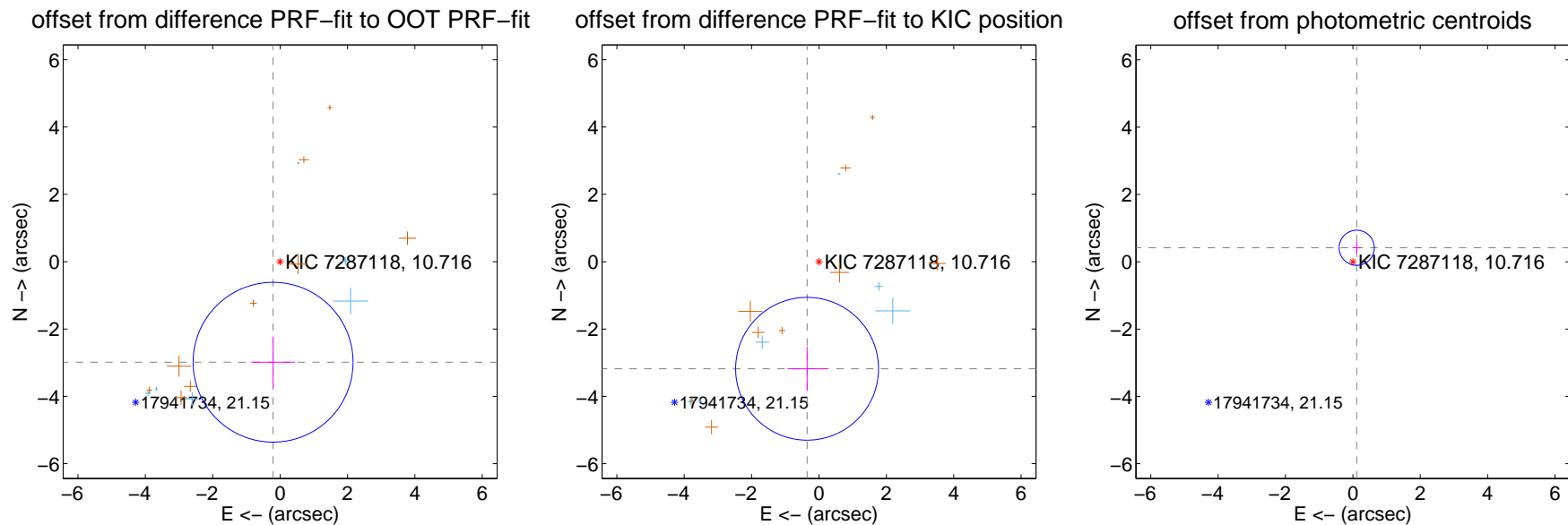
DV Centroid Data

Supplemental centroid analysis for 007287118-02. **Kepler magnitude: 10.72.** Transit SNR 9.47

There are 6 quarters with good PRF difference image offsets

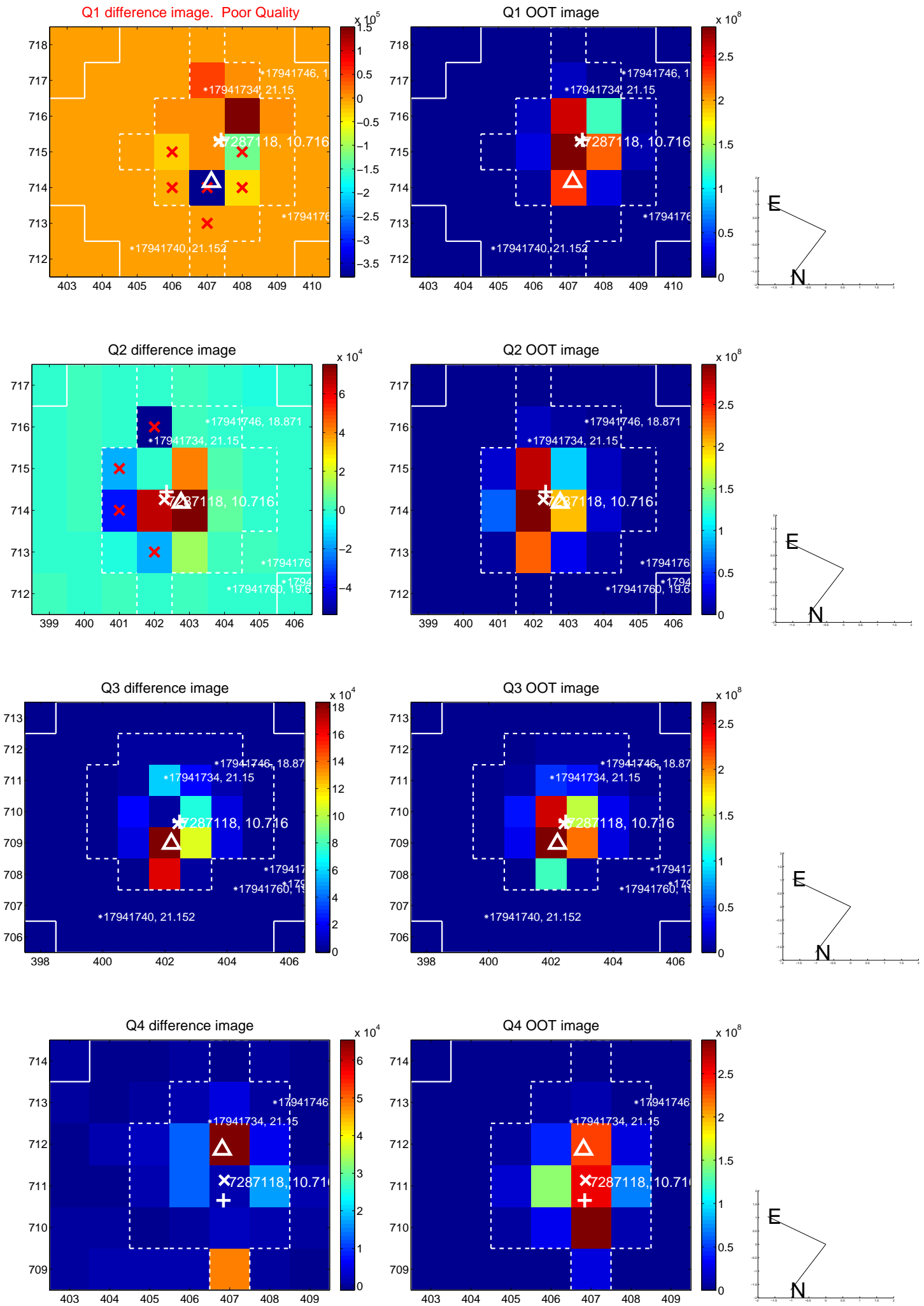
The direct PRF centroid is offset from the target star catalog position by about 0.28 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.994 ± 0.791	3.78	0.208 ± 0.651	-2.987 ± 0.757
PRF-fit source offset from KIC position	3.201 ± 0.707	4.53	0.353 ± 0.580	-3.181 ± 0.661
photometric centroid source offset	0.43 ± 0.17	2.48	-0.11 ± 0.13	0.42 ± 0.18

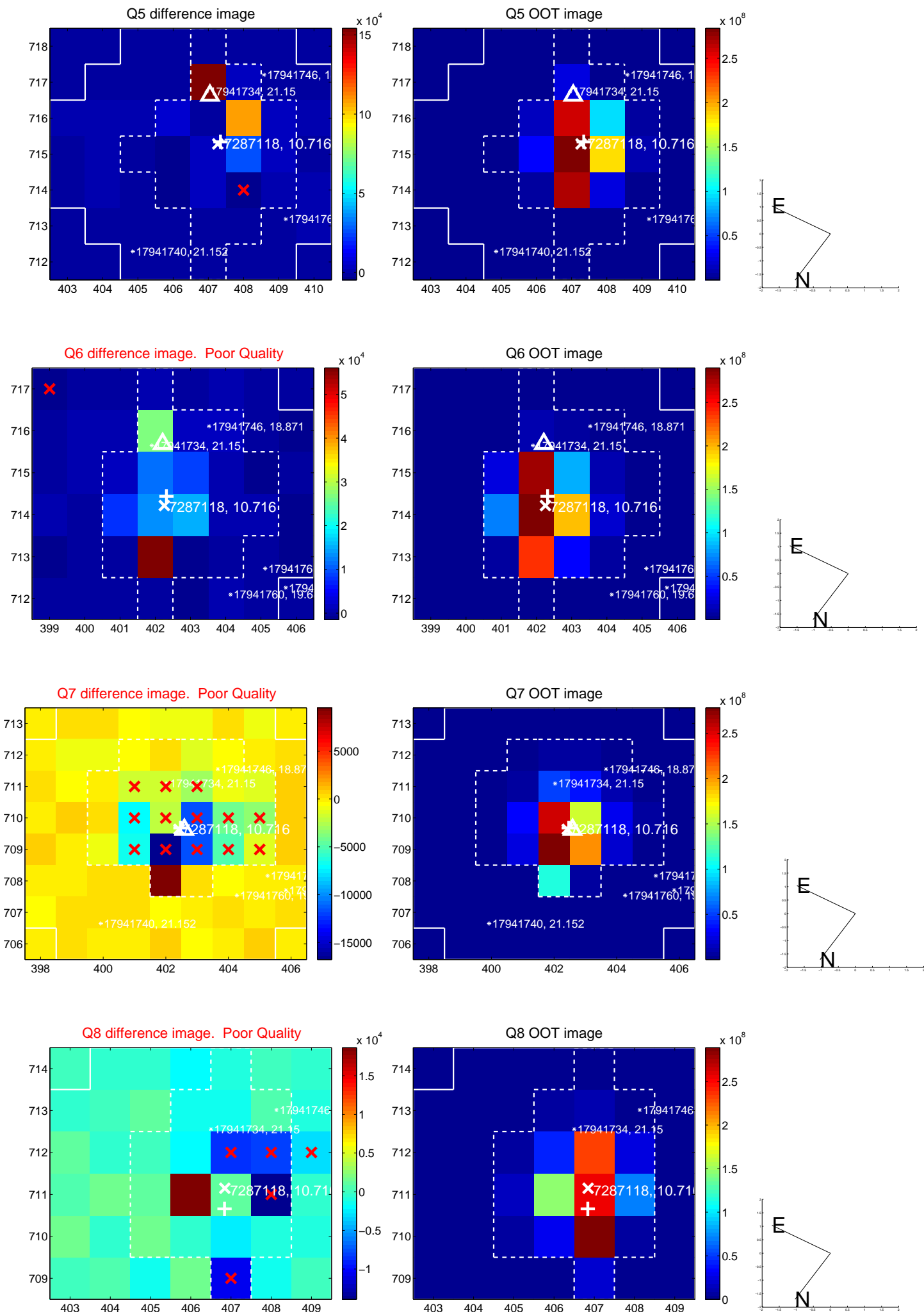


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

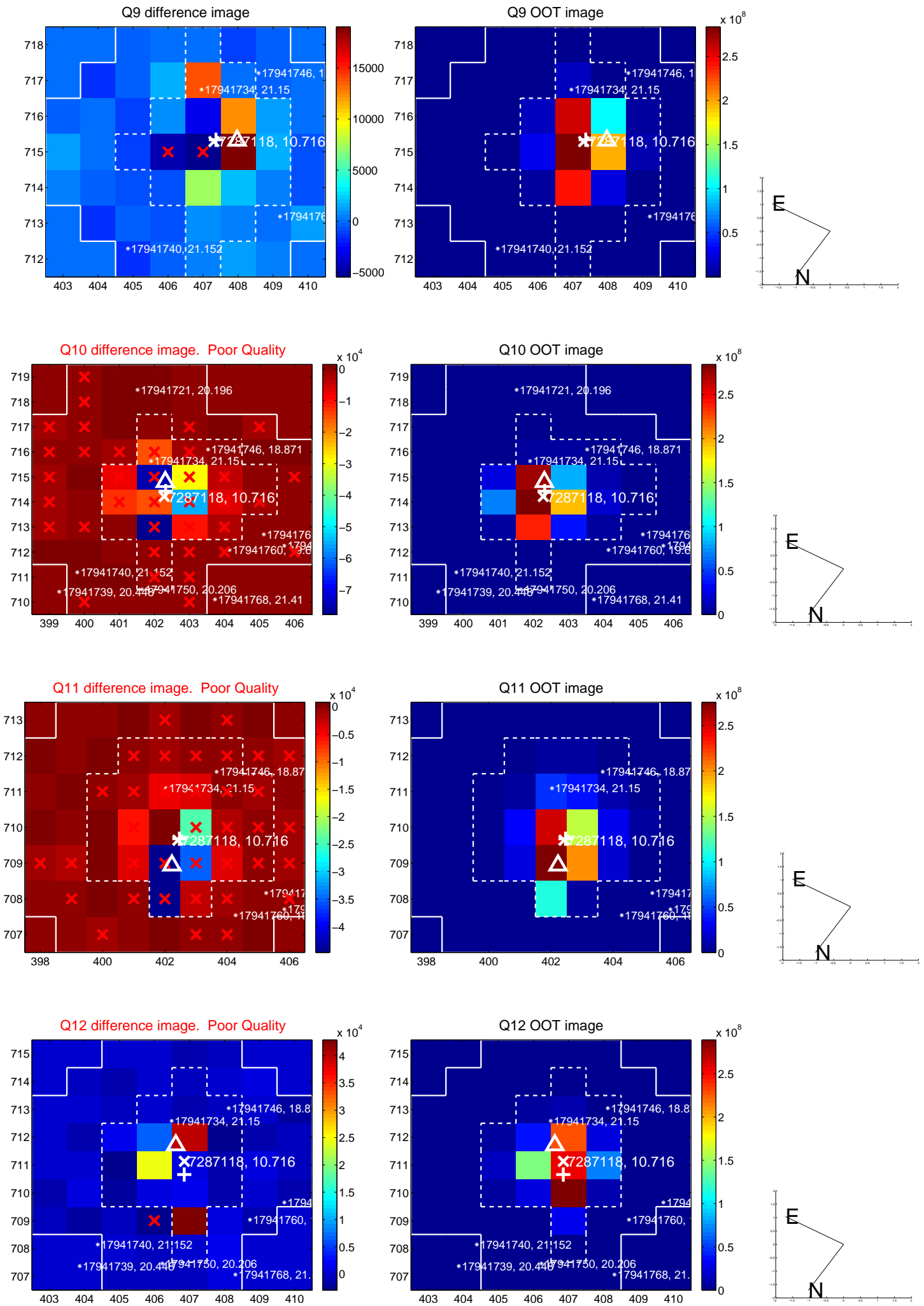
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



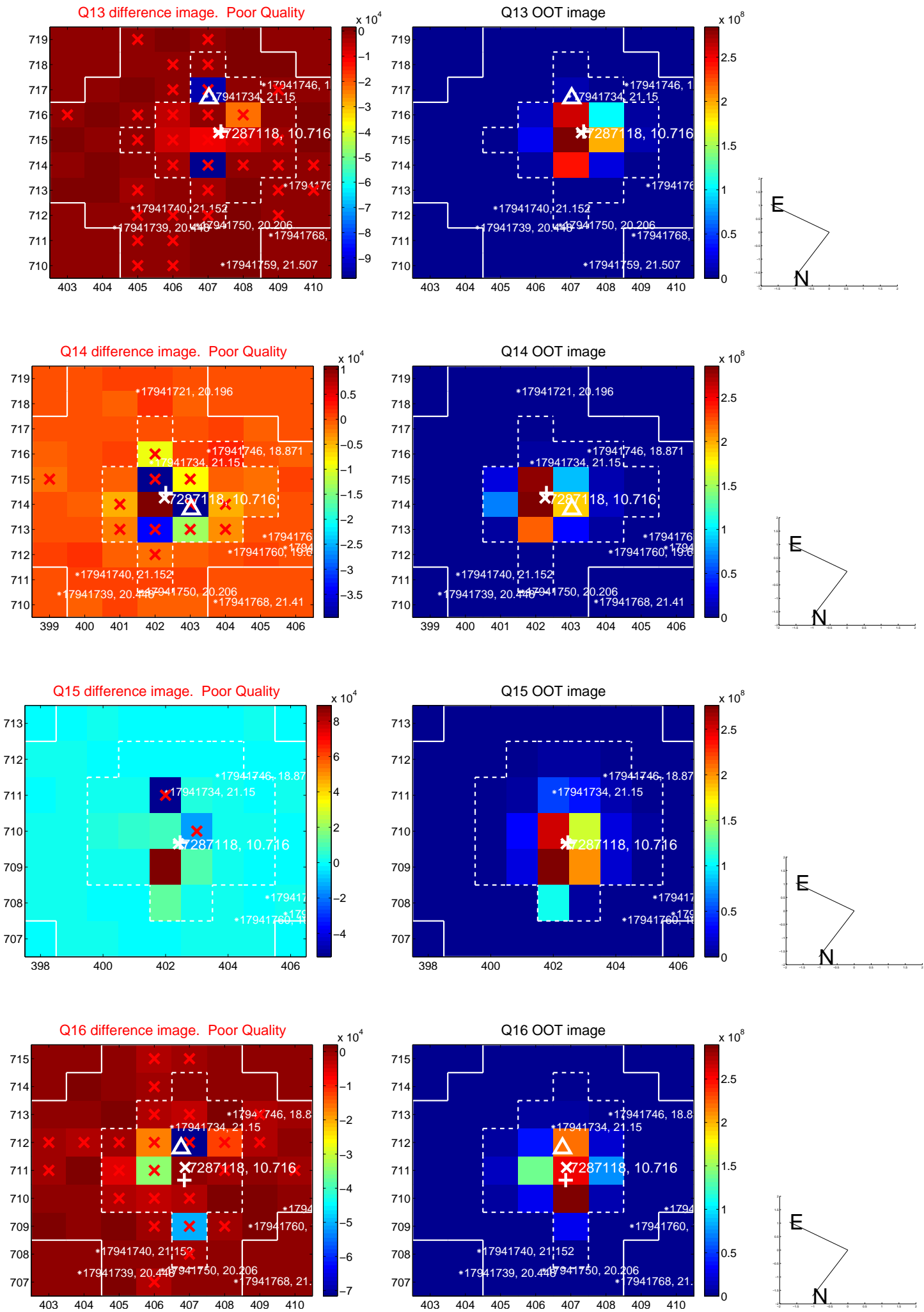
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



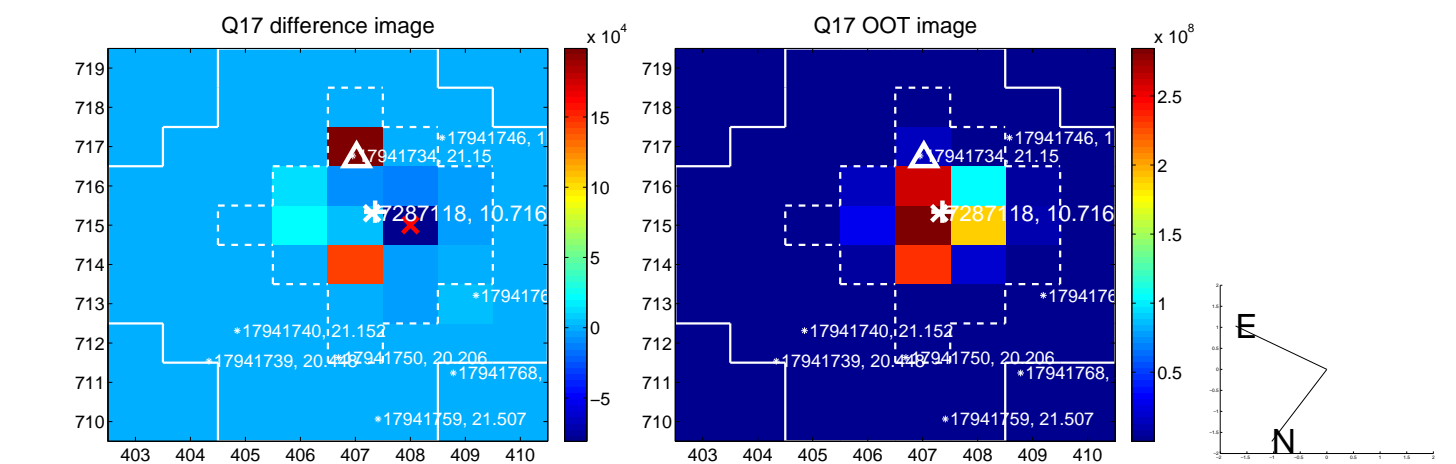
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



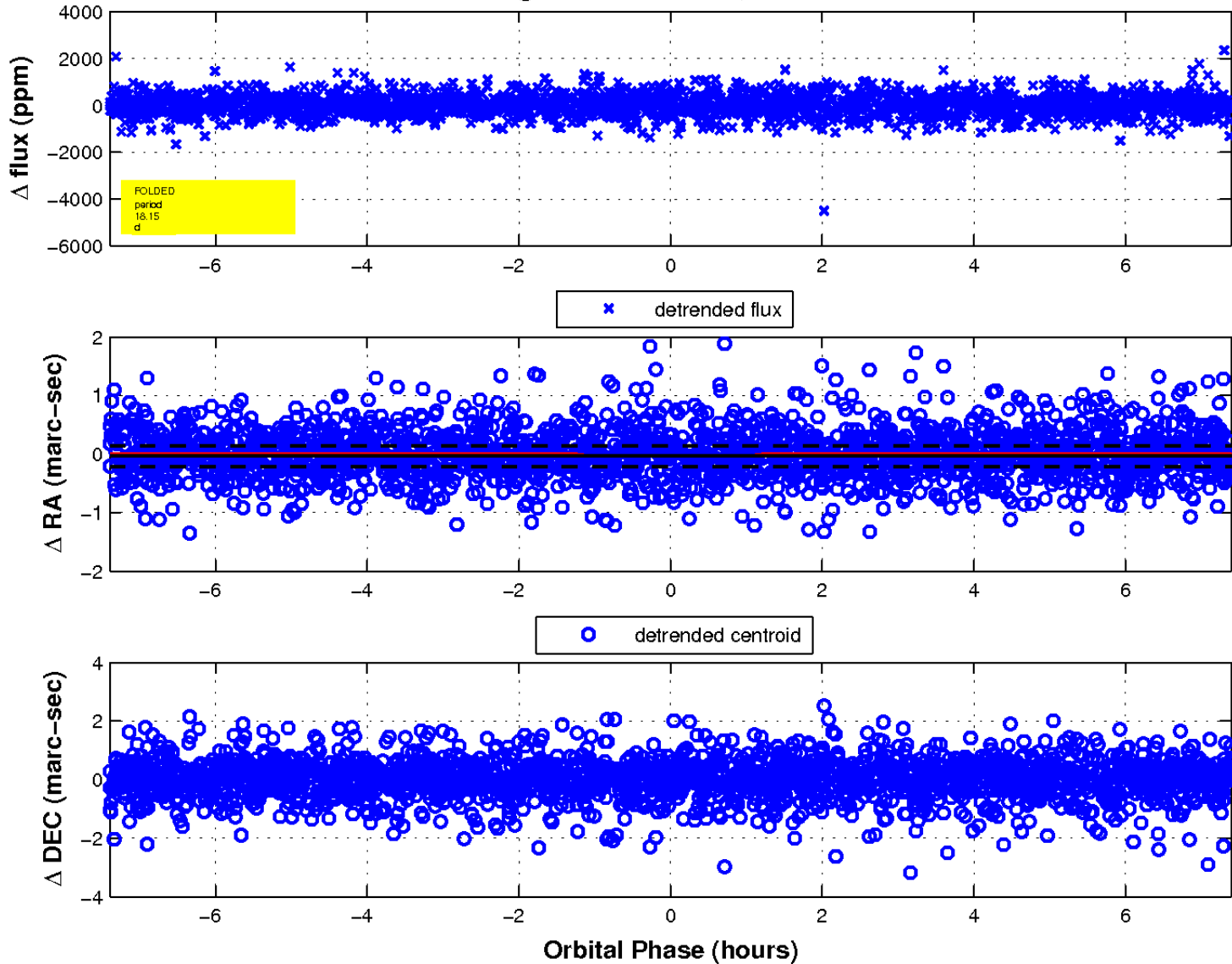
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

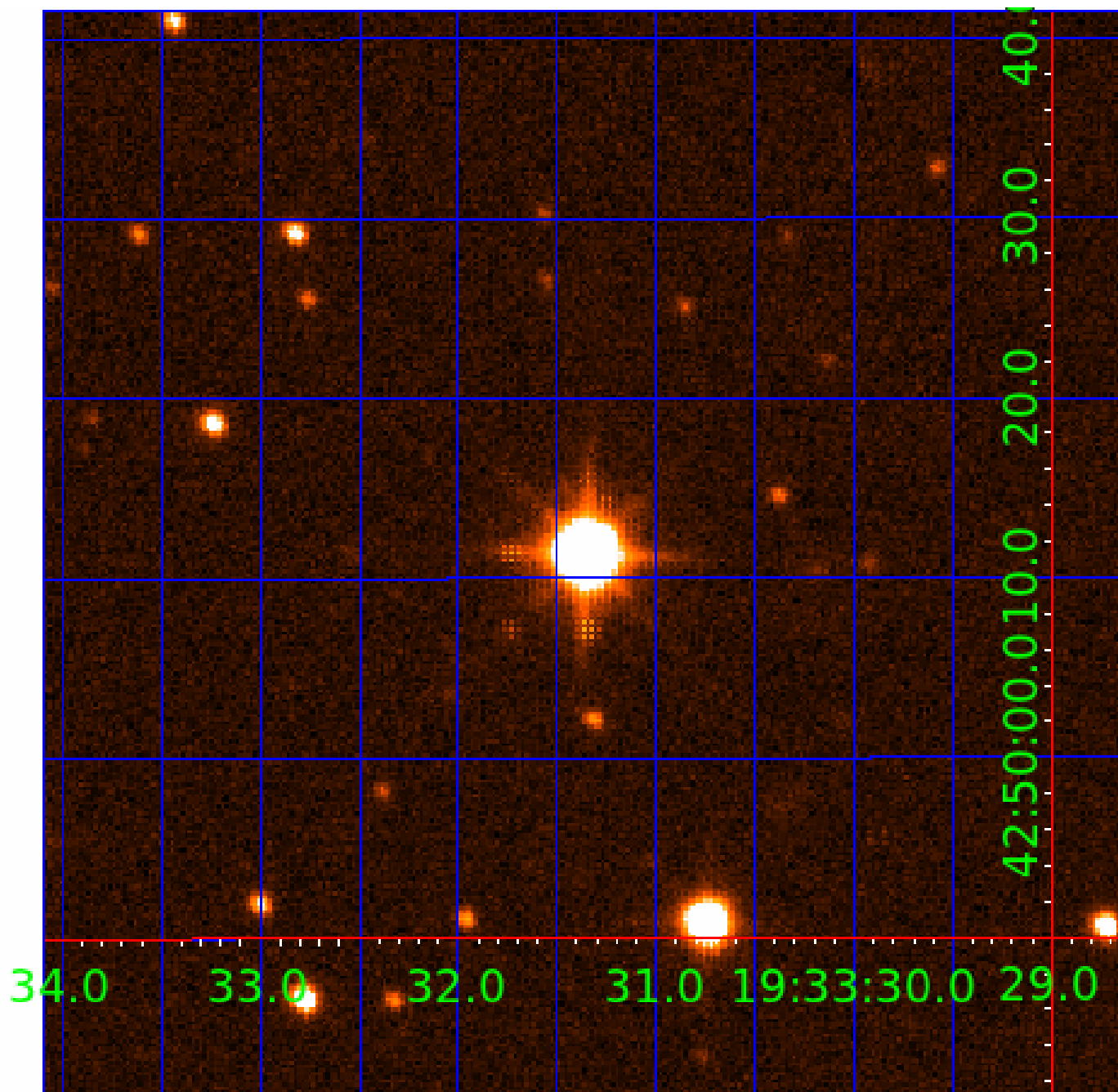


fluxWeightedCentroids, Planet 2 of 6



UKIRT Image

Declination



KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

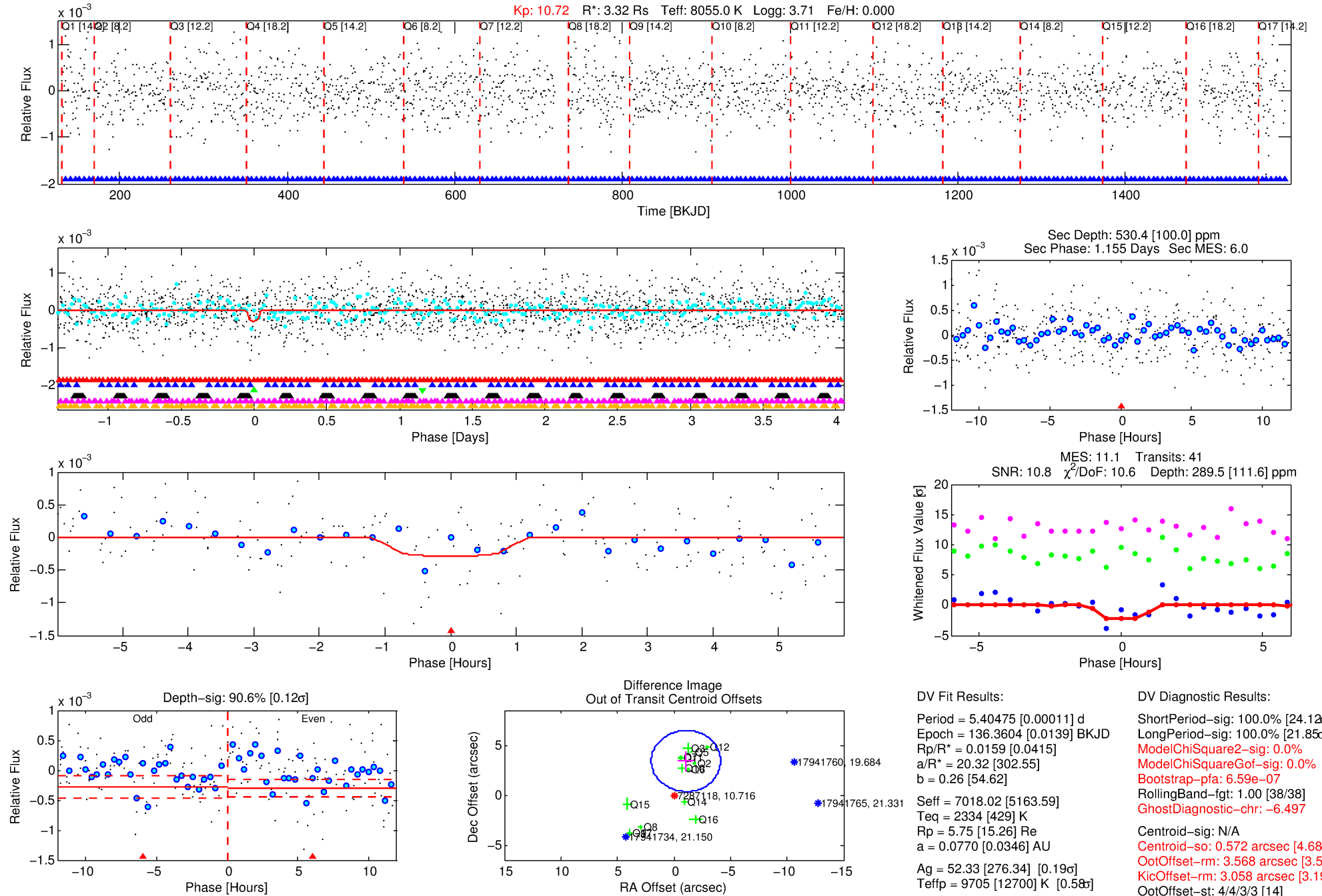
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-03

No Significant Match Found

DV One-Page Summary

KIC: 7287118 Candidate: 3 of 6 Period: 5.405 d



DV Fit Results:

Period = 5.40475 [0.00011] d
Epoch = 136.3604 [0.0139] BKJD
Rp/R* = 0.0159 [0.0415]
a/R* = 20.32 [302.55]
b = 0.26 [54.62]
Seff = 7018.02 [5163.59]
Teq = 2334 [429] K
Rp = 5.75 [15.26] Re
a = 0.0770 [0.0346] AU
Ag = 52.33 [276.34] [0.19σ]
Teffp = 9705 [12700] K [0.58σ]

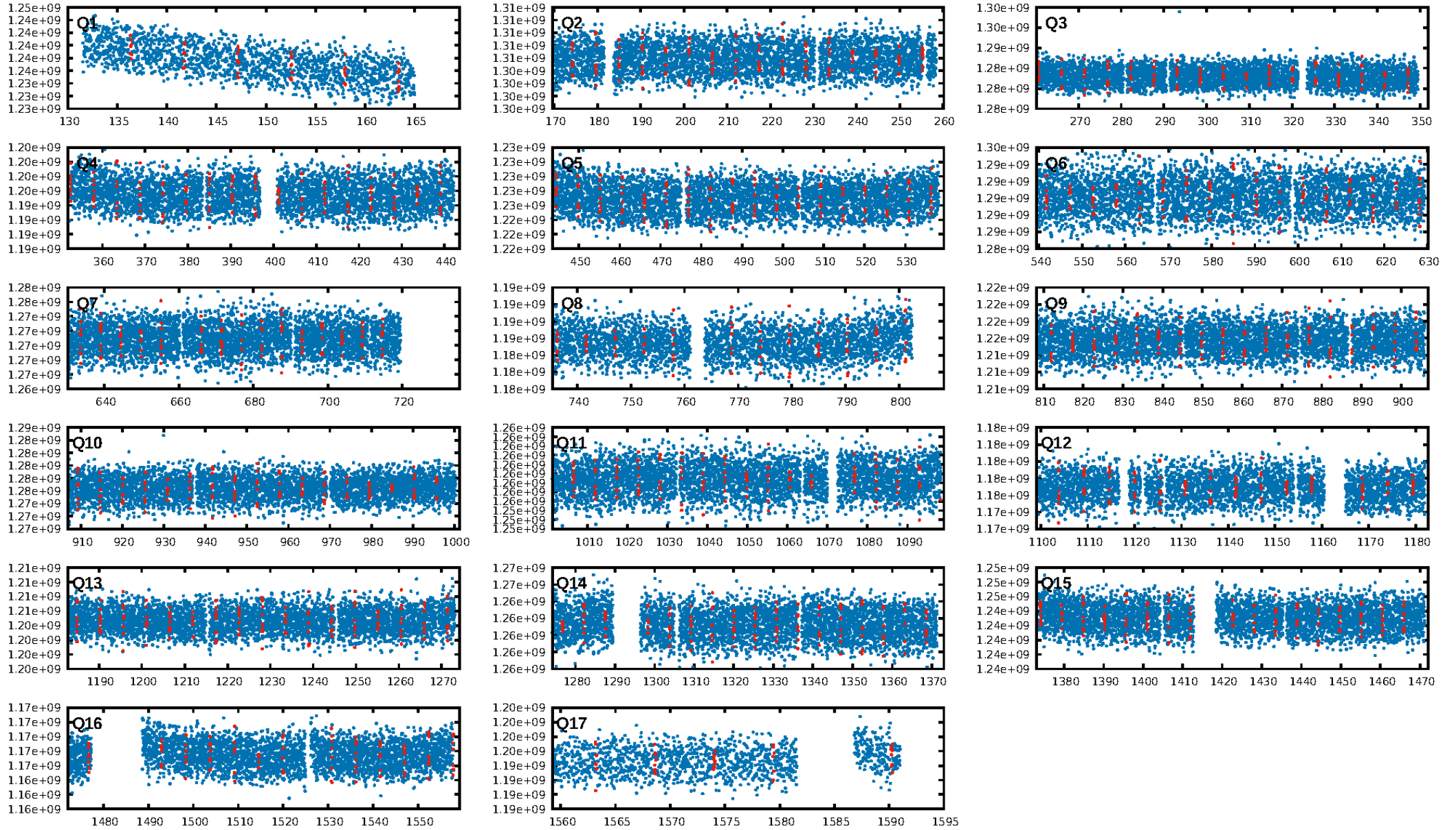
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [24.12σ]
LongPeriod-sig: 100.0% [21.85σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 6.59e-07
RollingBand-fgt: 1.00 [38/38]
GhostDiagnostic-chr: -6.497
Centroid-sig: N/A
Centroid-so: 0.572 arcsec [4.68σ]
OotOffset-rm: 3.568 arcsec [3.50σ]
KicOffset-rm: 3.058 arcsec [3.19σ]
OotOffset-st: 4/4/3/3 [14]
KicOffset-st: 4/4/3/3 [14]
DiffImageQuality-fgm: 0.43 [6/14]
DiffImageOverlap-fno: 0.00 [0/17]

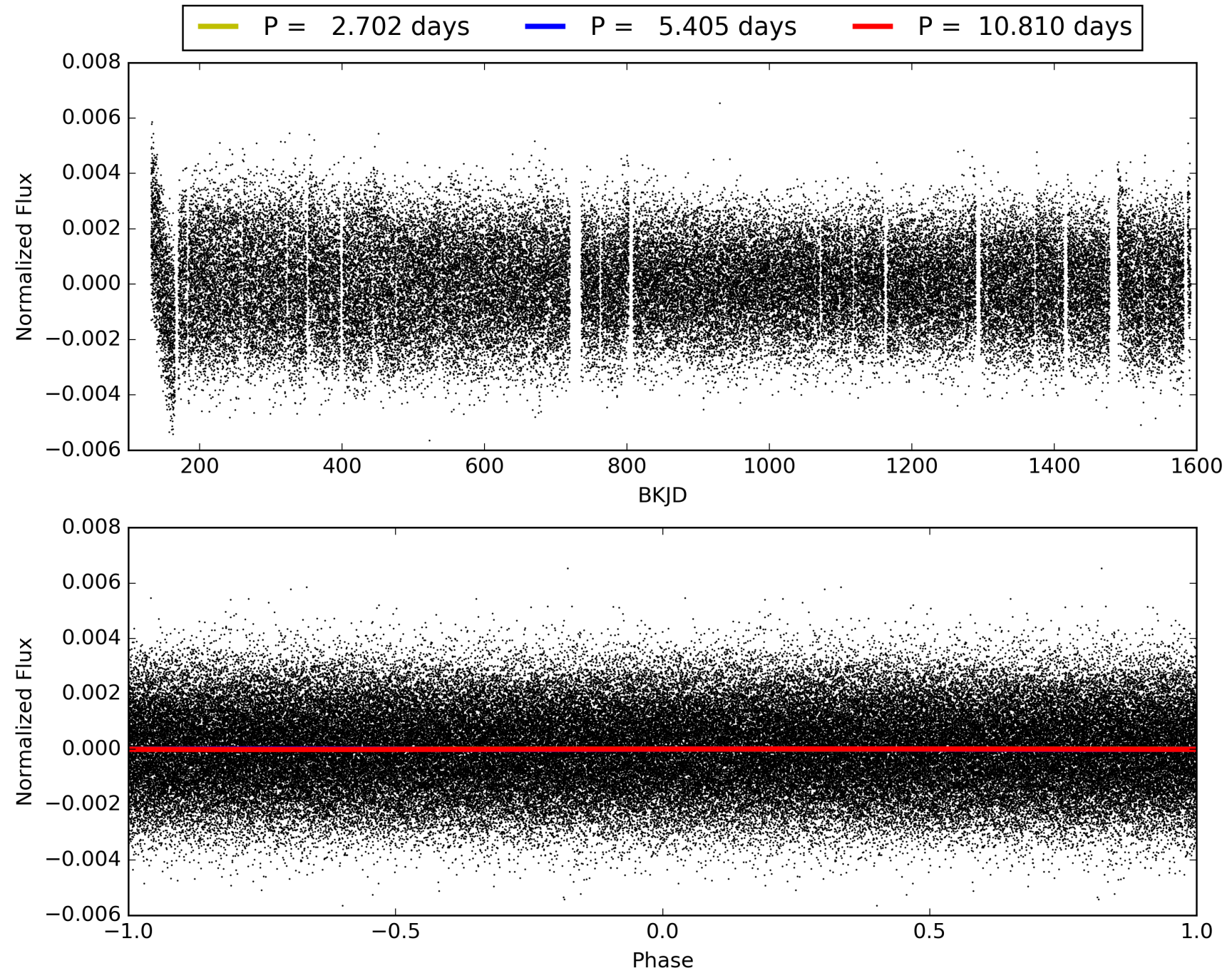
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:02:41 Z

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

TCE 007287118-03, PDC Light Curves

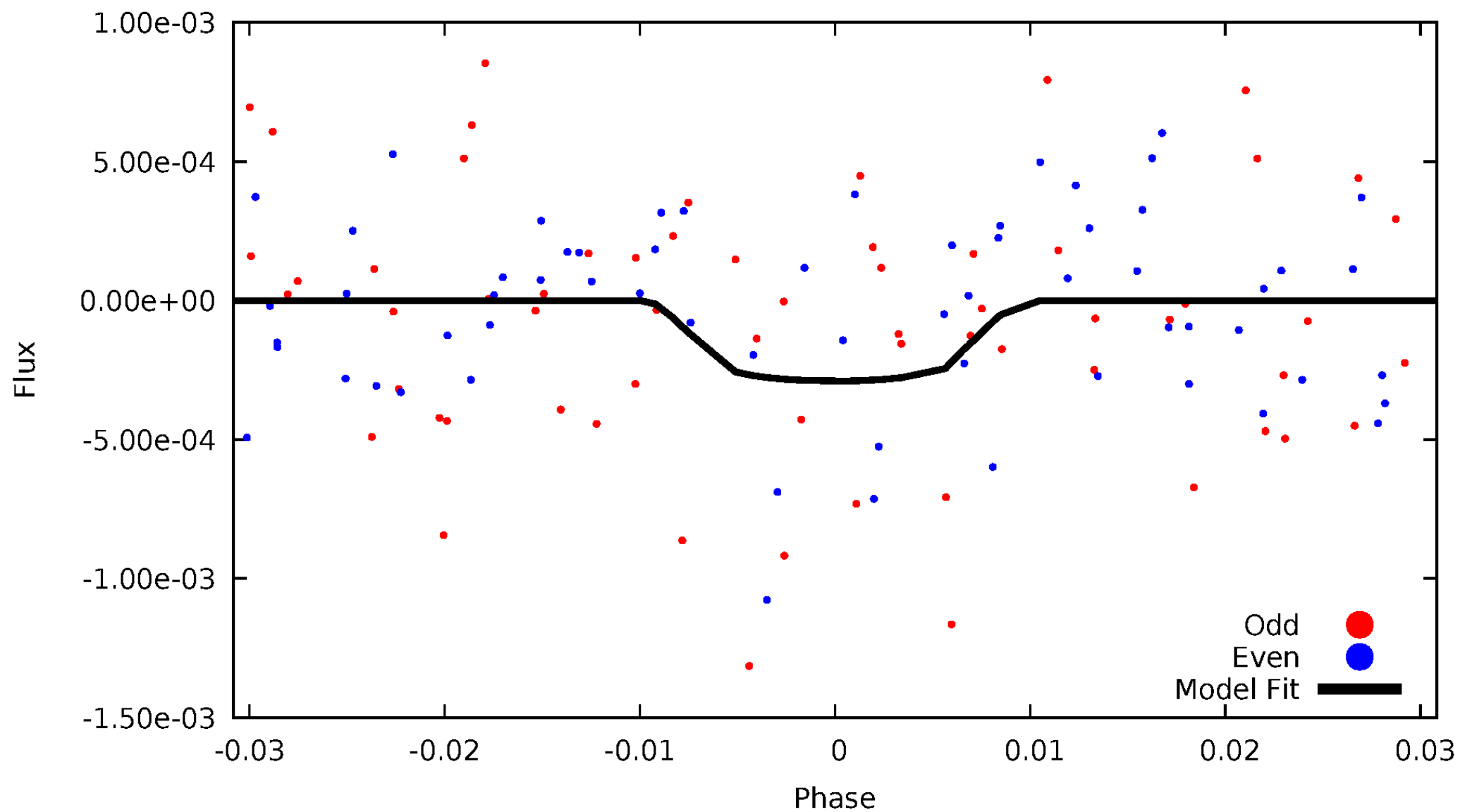


TCE 007287118-03



DV Odd/Even

TCE 007287118-03

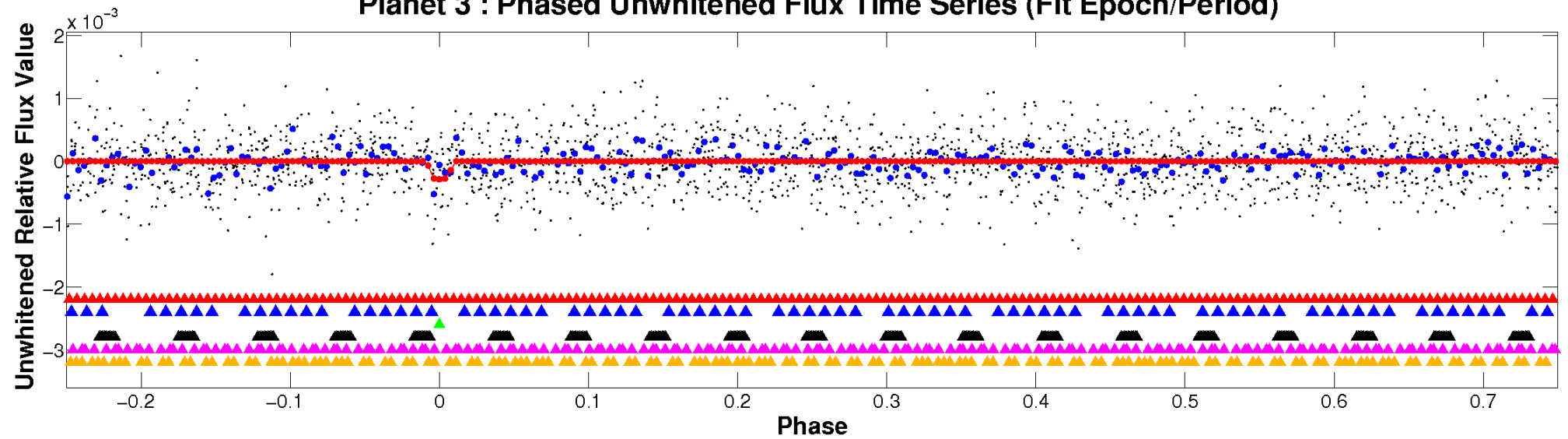


ALT Odd/Even

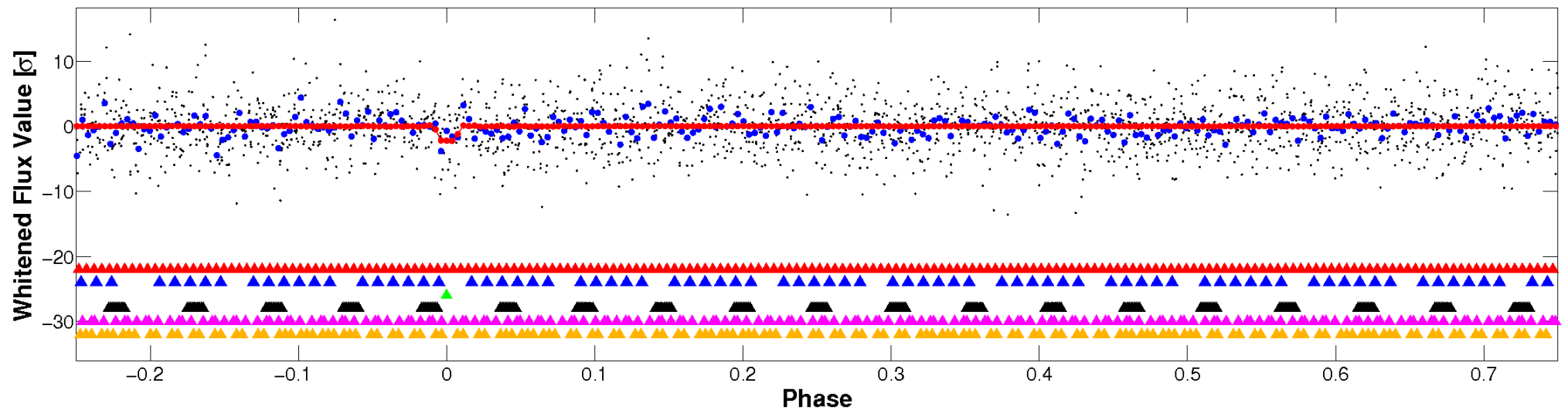
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

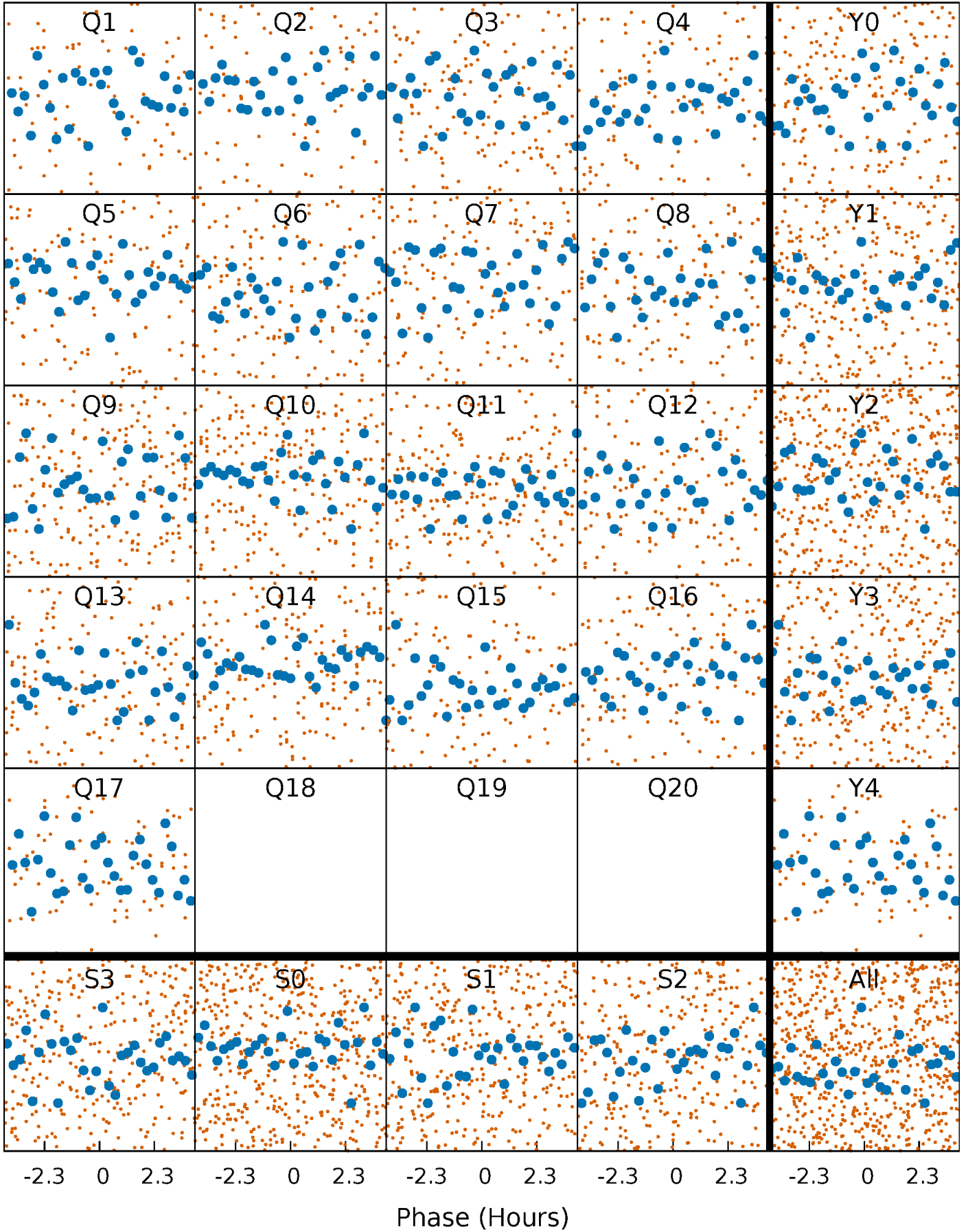


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



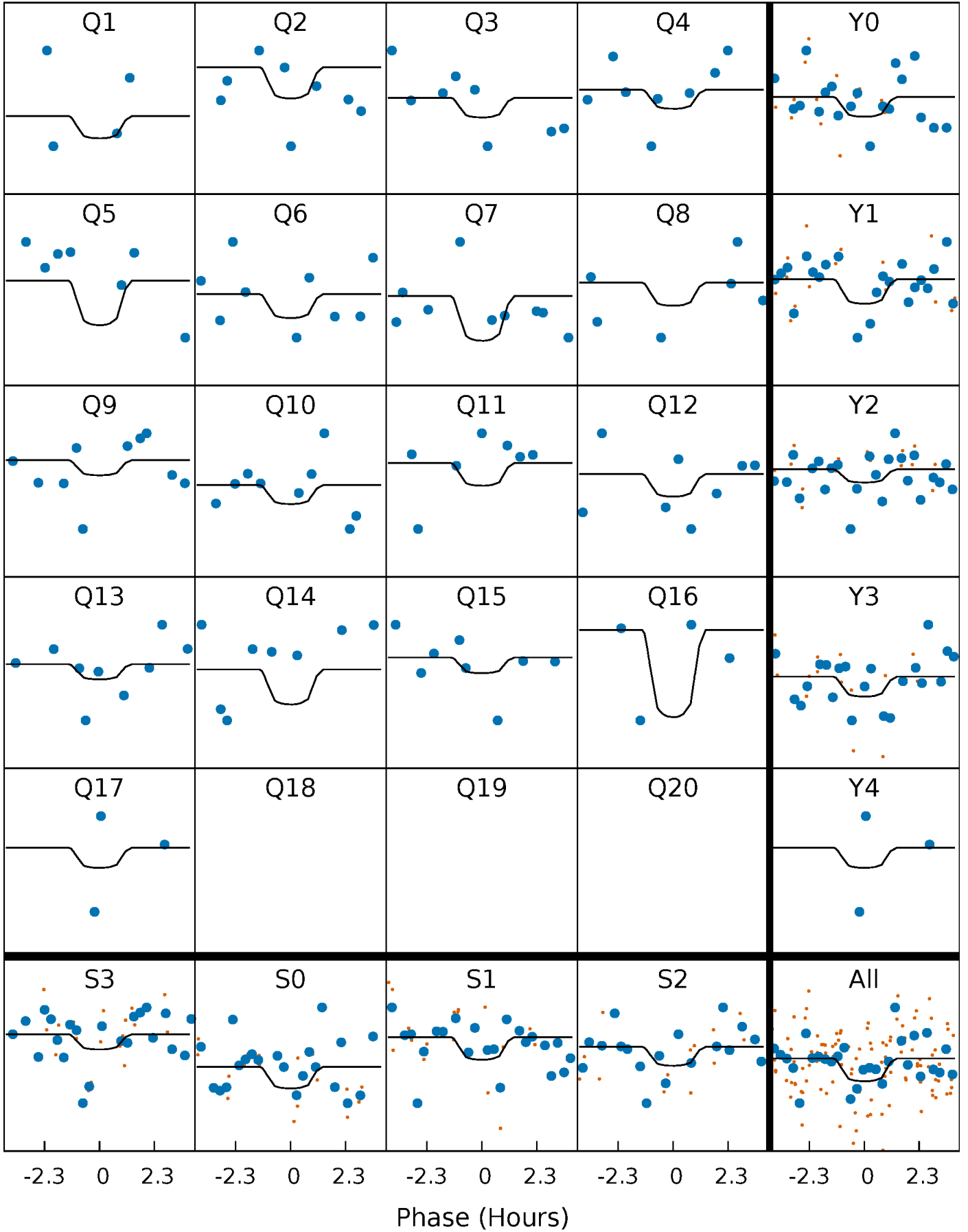
PDC Quarter-Phased Transit Curves

TCE 007287118-03 P= 5.404750 Days $T_0=136.360354$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007287118-03 P= 5.404750 Days $T_0=136.360354$ (BKJD)

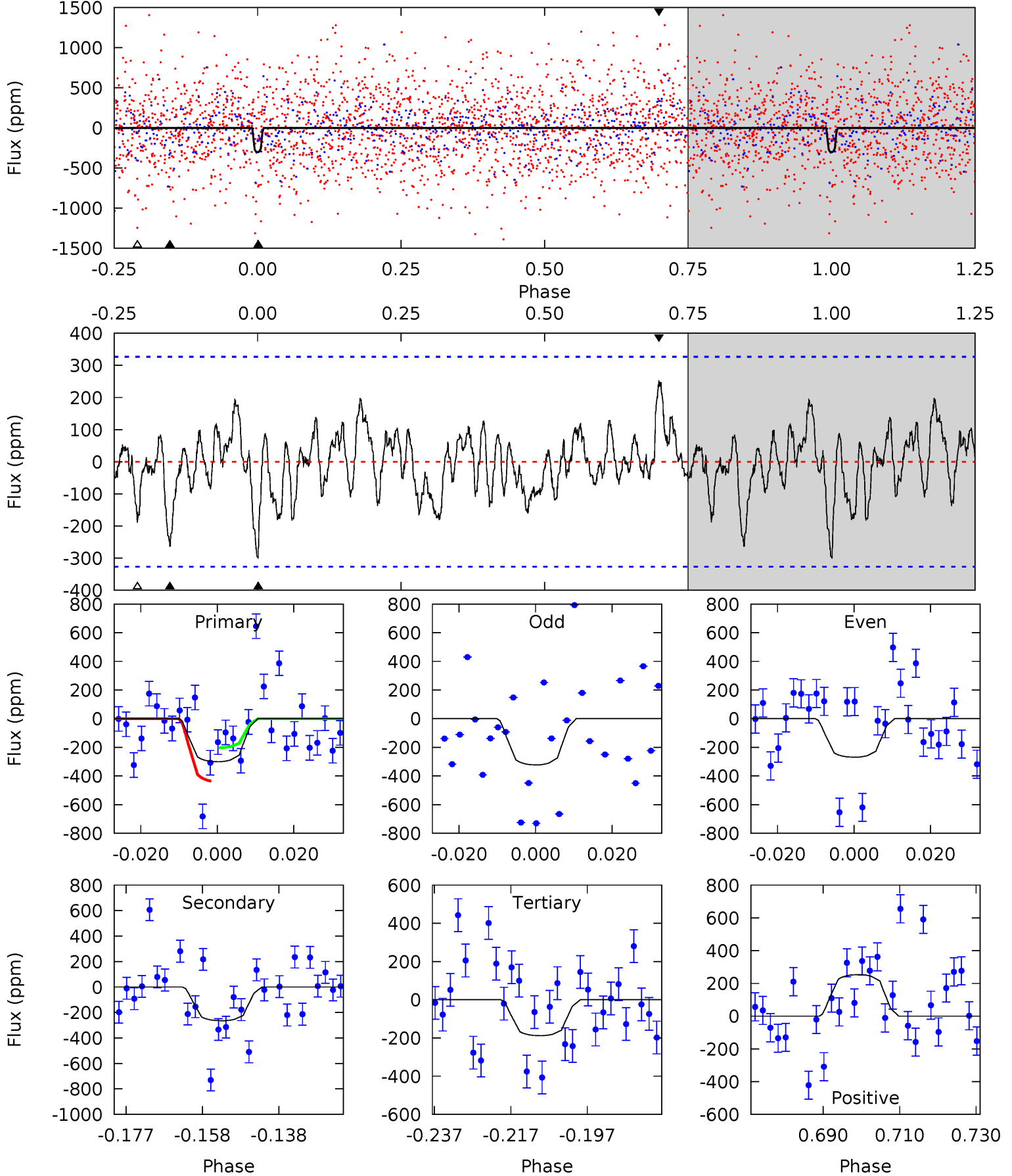


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007287118-03, P = 5.404750 Days, E = 130.955604 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.51	3.96	2.82	3.80	4.89	2.33	1.23	1.69	0.70	1.15	0.16	0.41	0	0.46	1.74



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-265 ± 67	$10.82^{+11.95}_{-7.06}$	3155^{+237}_{-388}	5268^{+4153}_{-1356}	$6.459^{+50.144}_{-4.899}$
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 $A_{obs} \gg 1.0$

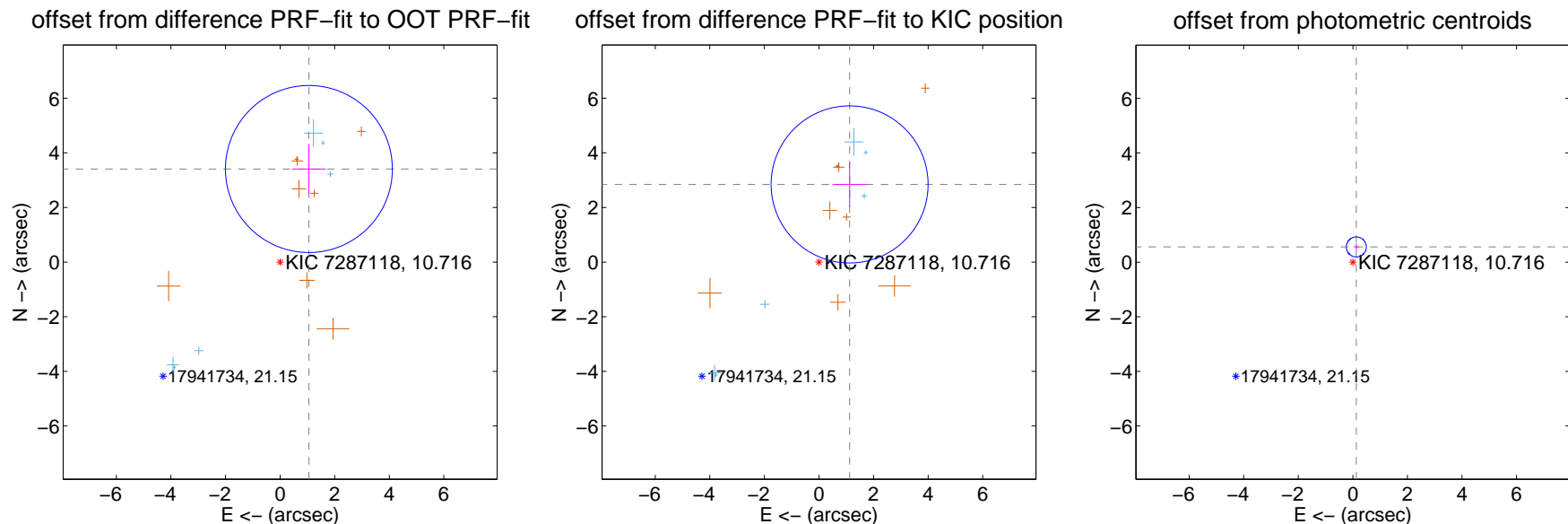
DV Centroid Data

Supplemental centroid analysis for 007287118-03. **Kepler magnitude: 10.72.** Transit SNR 10.77

There are 6 quarters with good PRF difference image offsets

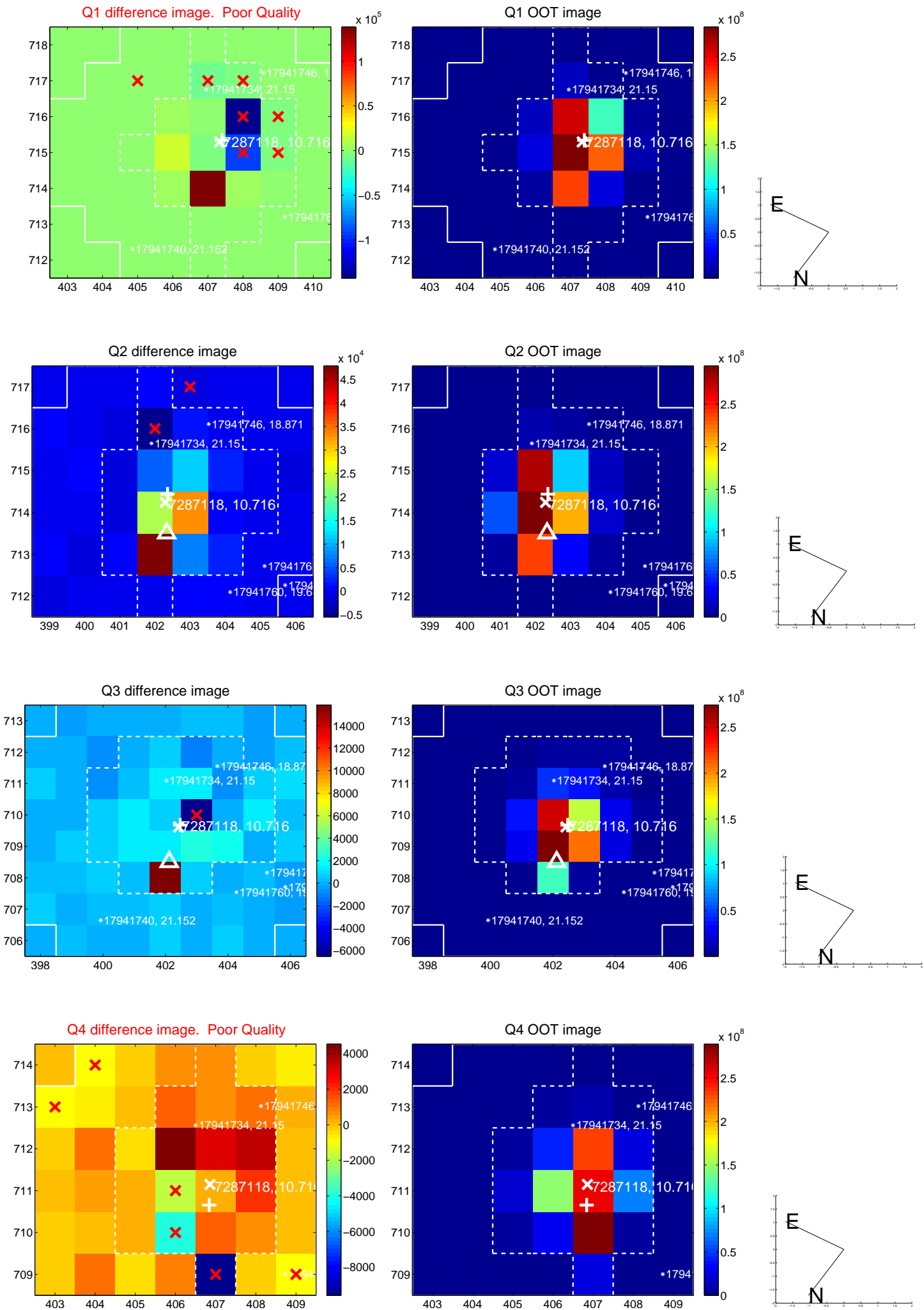
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.568 ± 1.019	3.50	-1.055 ± 0.620	3.408 ± 0.920
PRF-fit source offset from KIC position	3.058 ± 0.959	3.19	-1.122 ± 0.620	2.844 ± 0.836
photometric centroid source offset	0.57 ± 0.12	4.68	-0.13 ± 0.09	0.56 ± 0.12

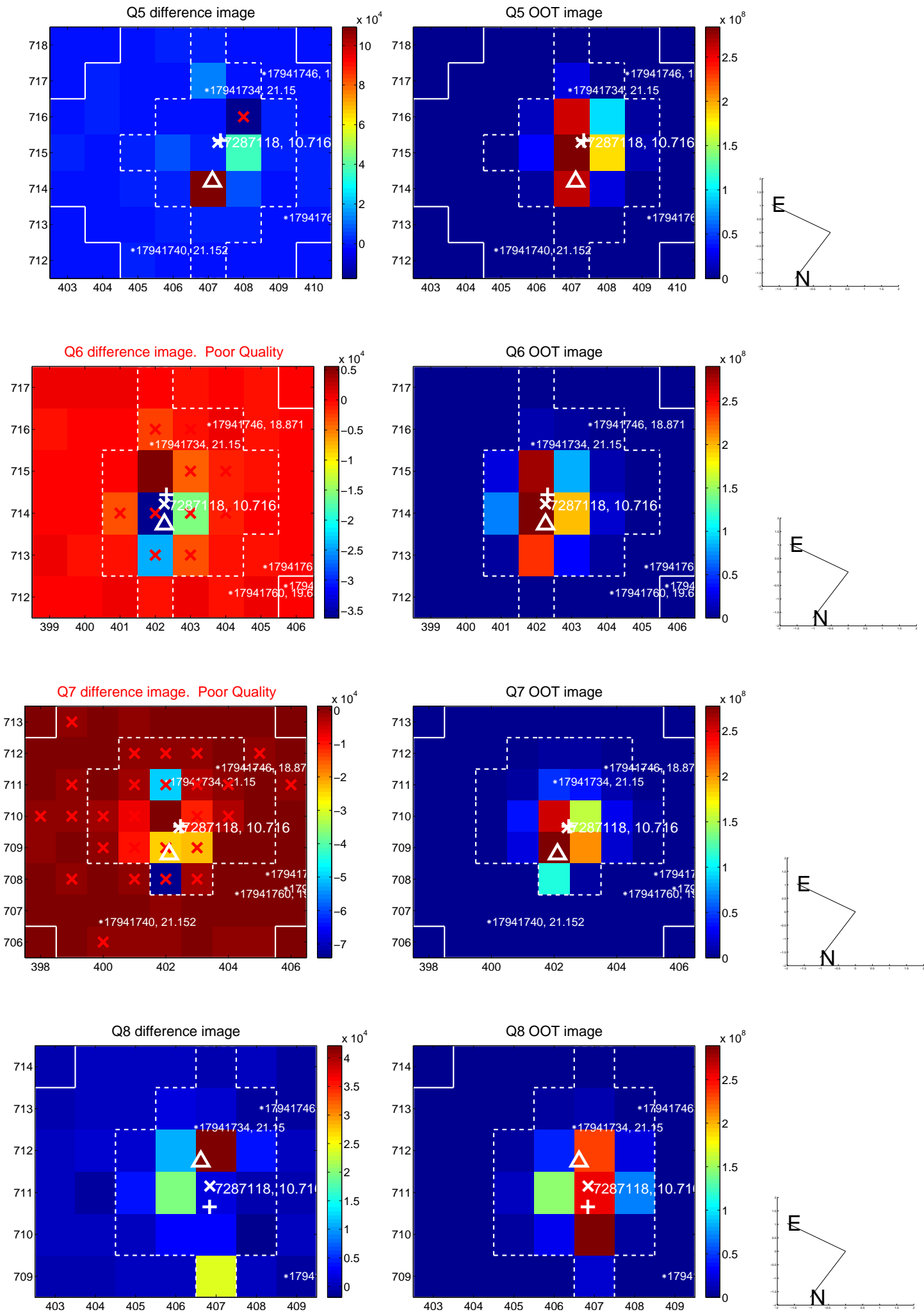


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

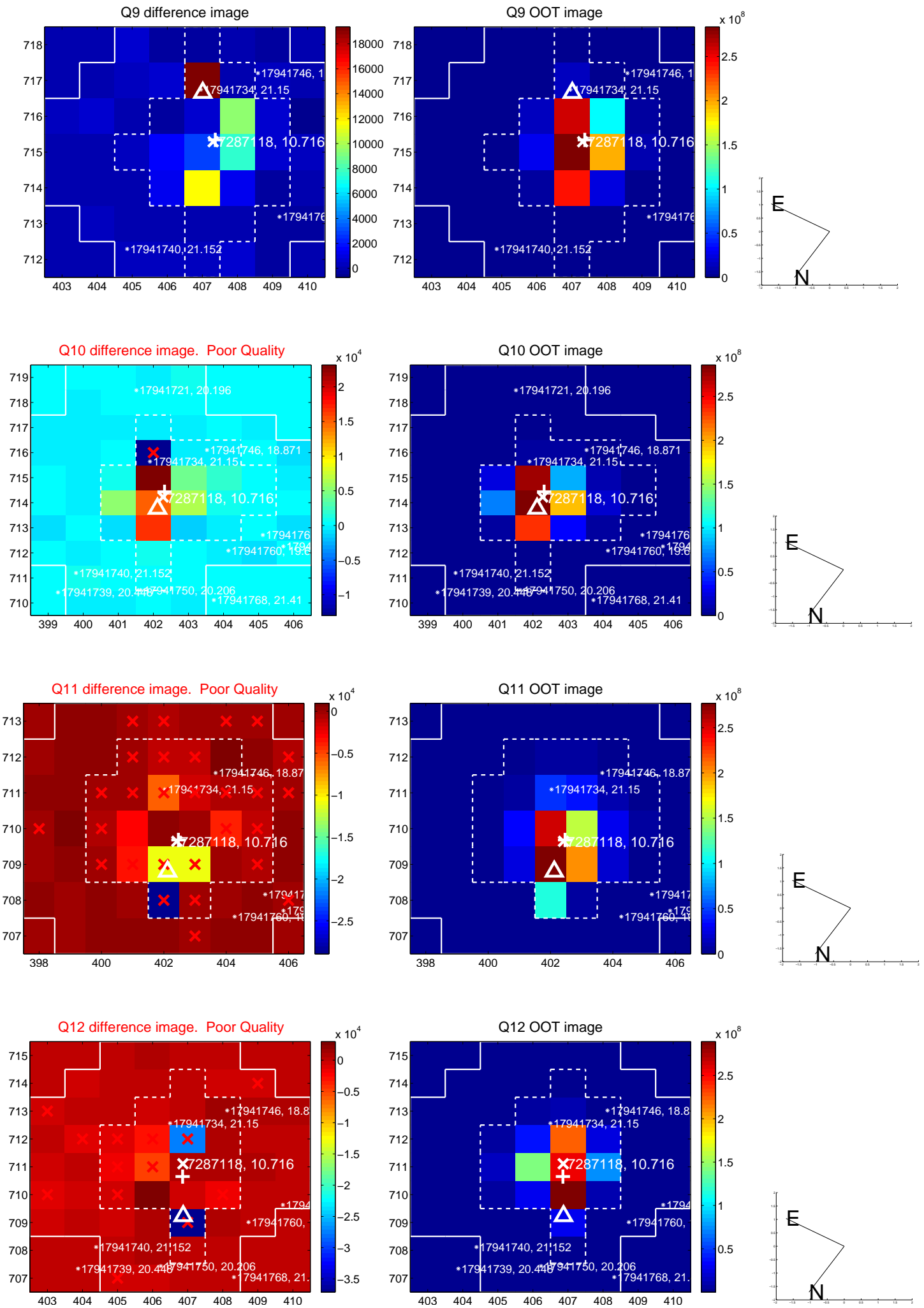
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



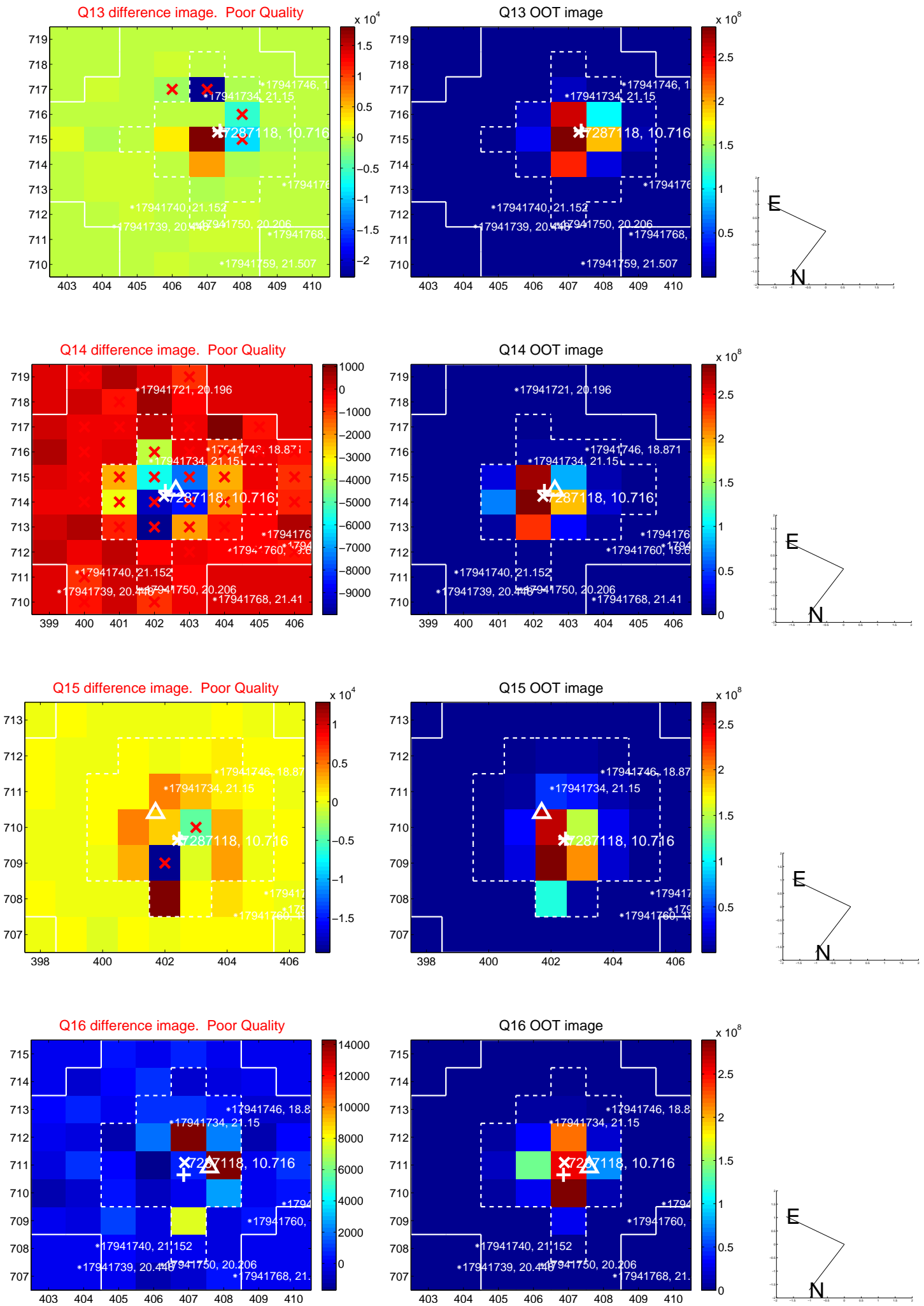
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



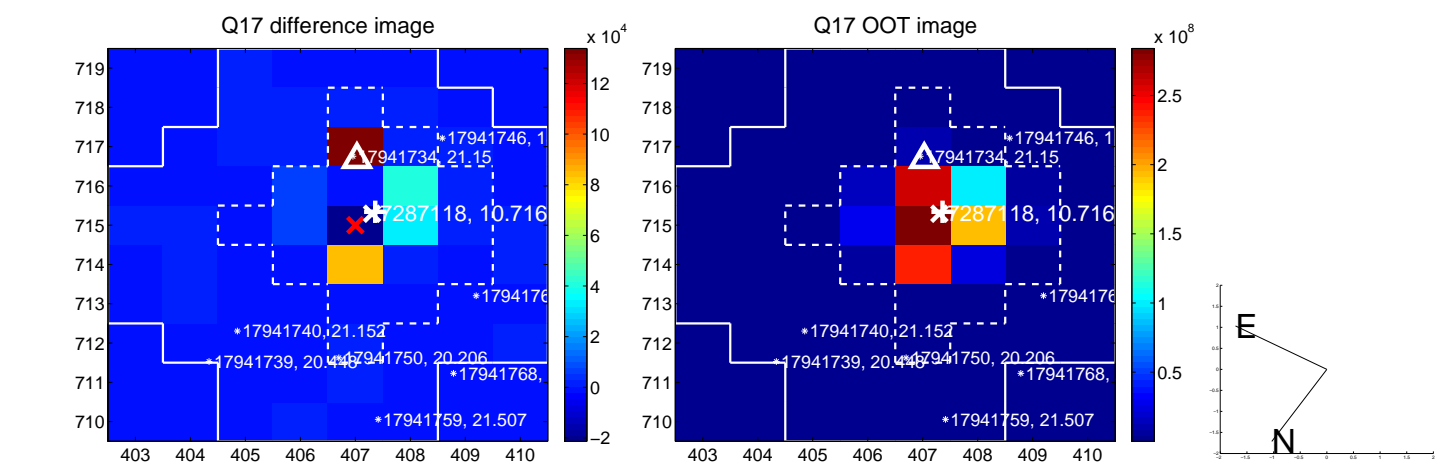
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



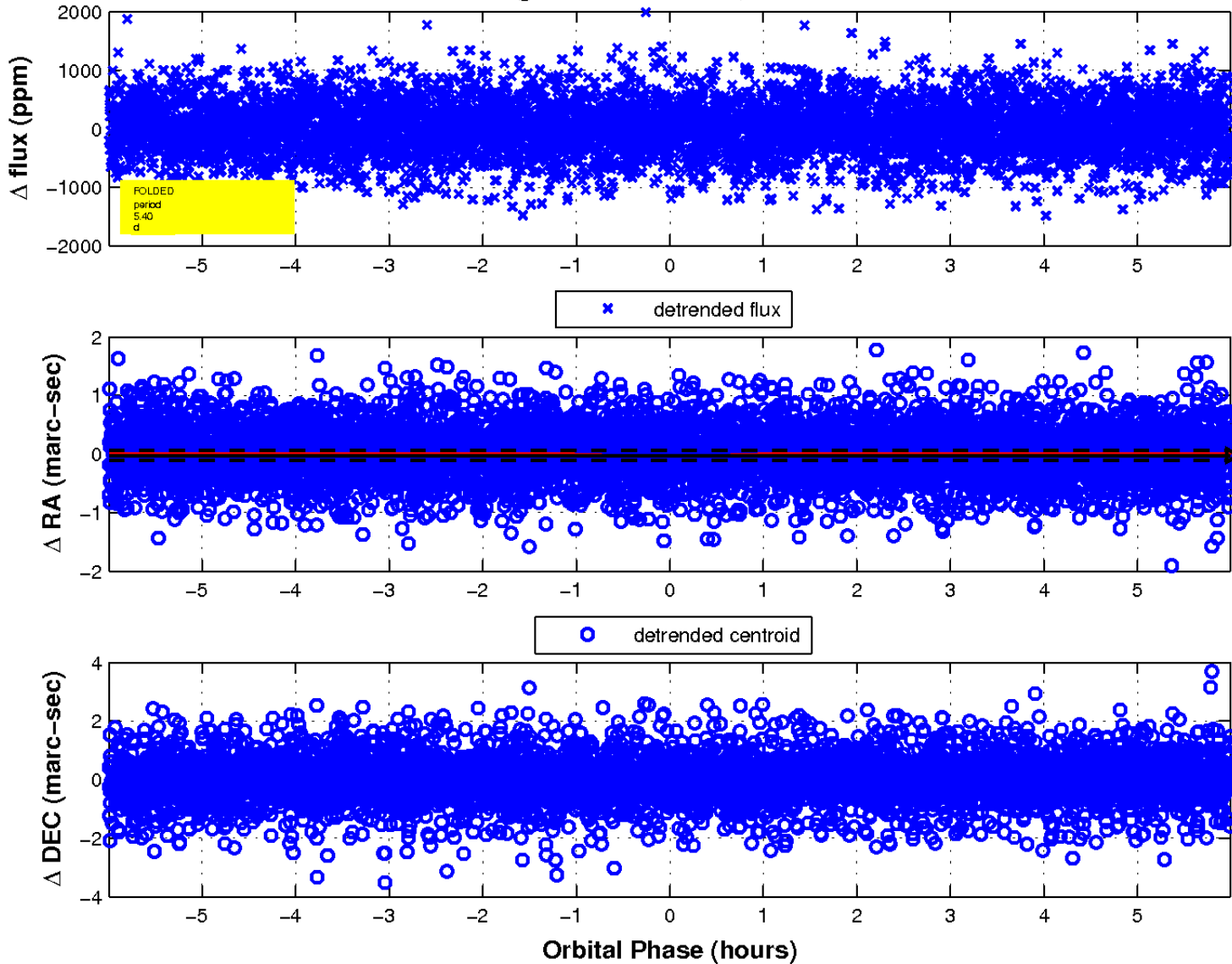
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

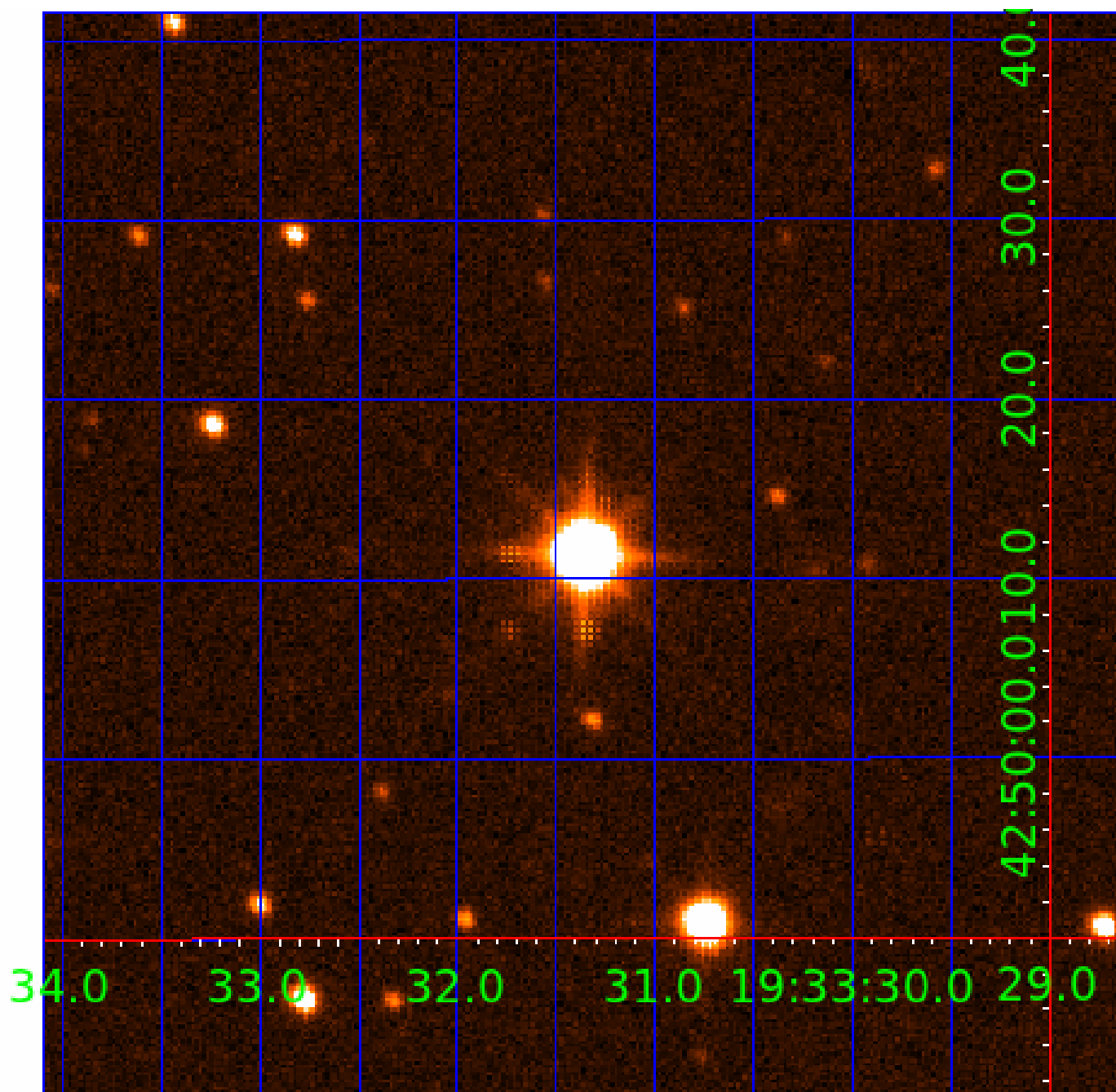


fluxWeightedCentroids, Planet 3 of 6



UKIRT Image

Declination



KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

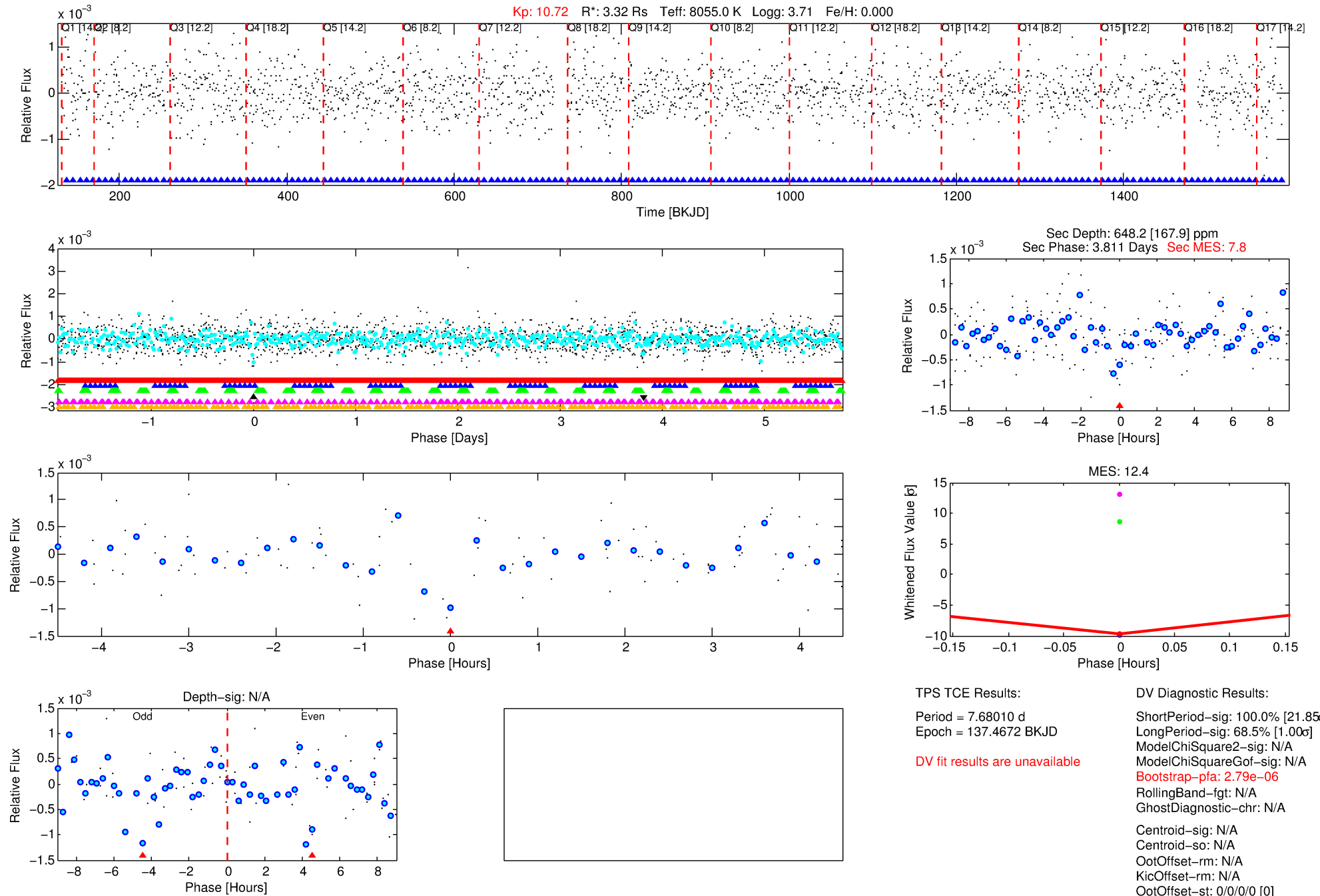
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-04

No Significant Match Found

DV One-Page Summary

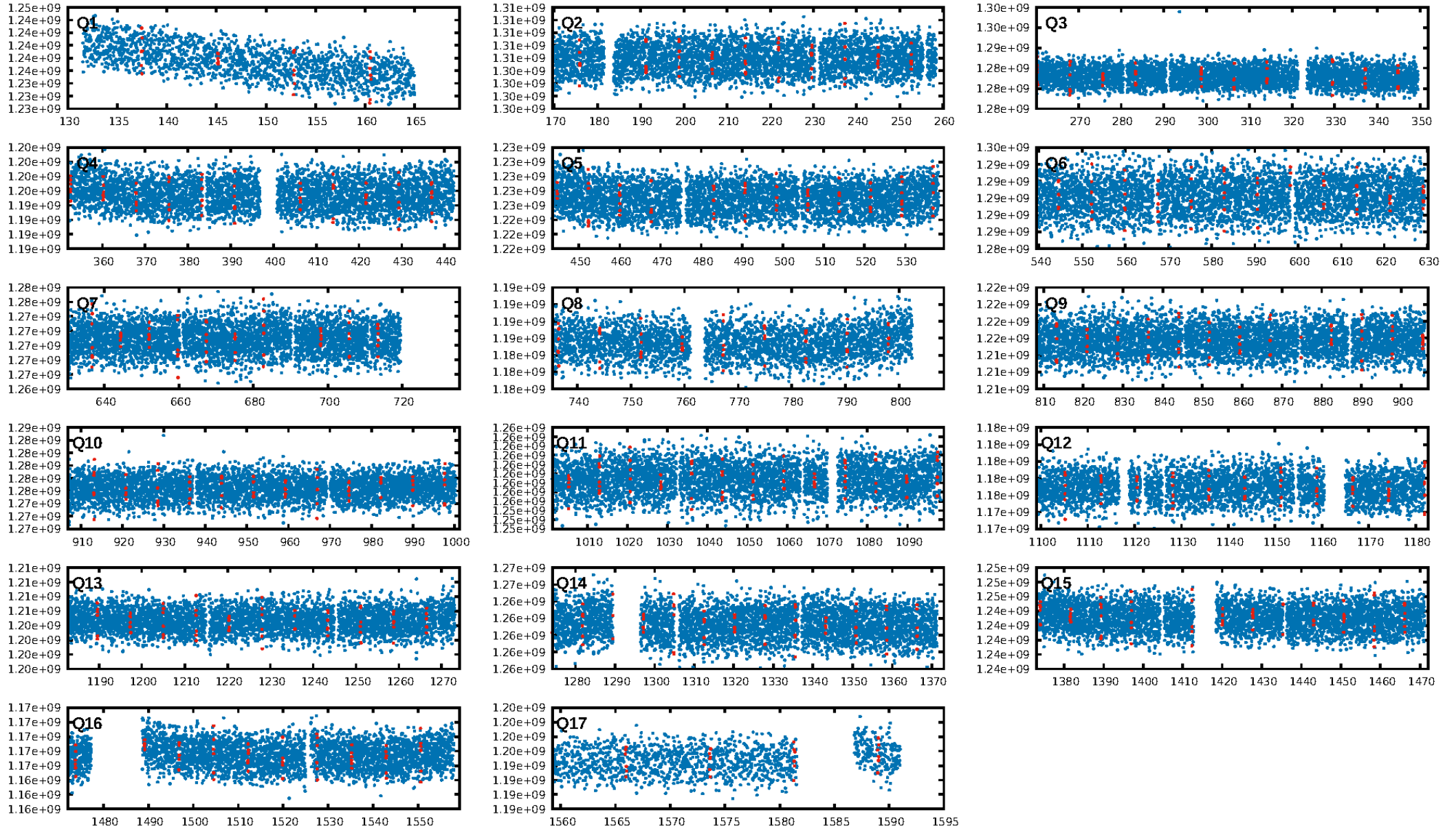
KIC: 7287118 Candidate: 4 of 6 Period: 7.680 d



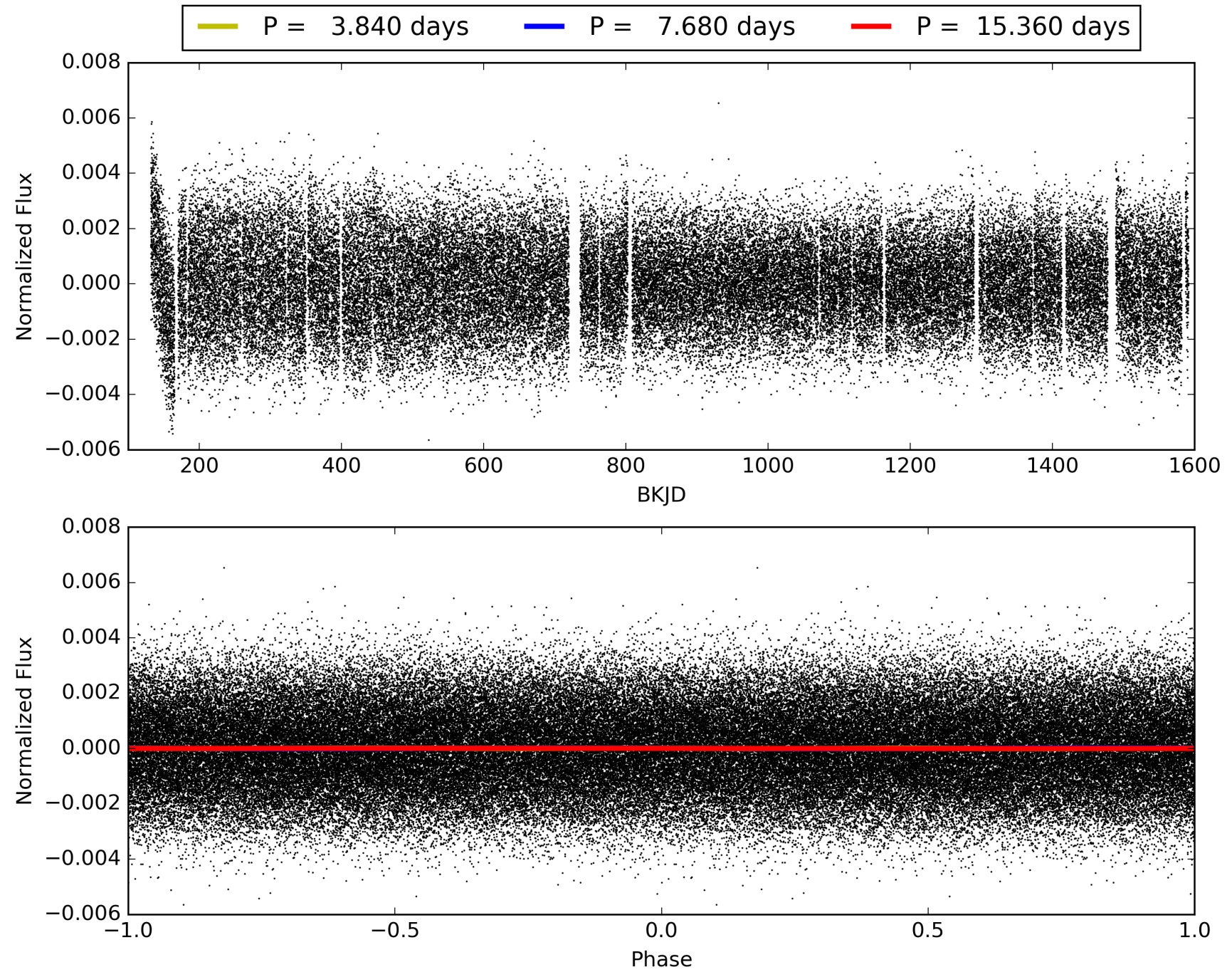
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:02:43 Z

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

TCE 007287118-04, PDC Light Curves

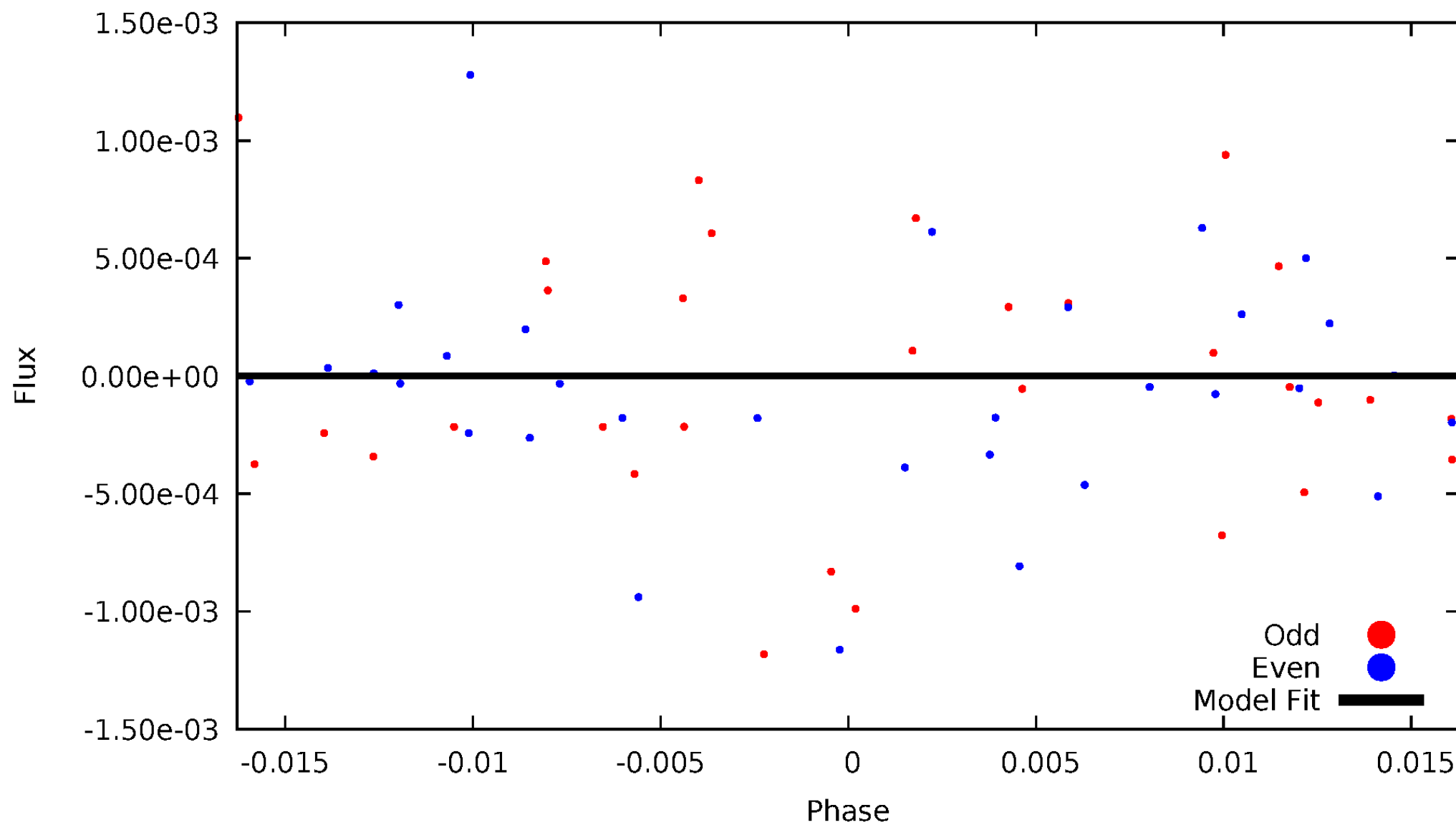


TCE 007287118-04



DV Odd/Even

TCE 007287118-04

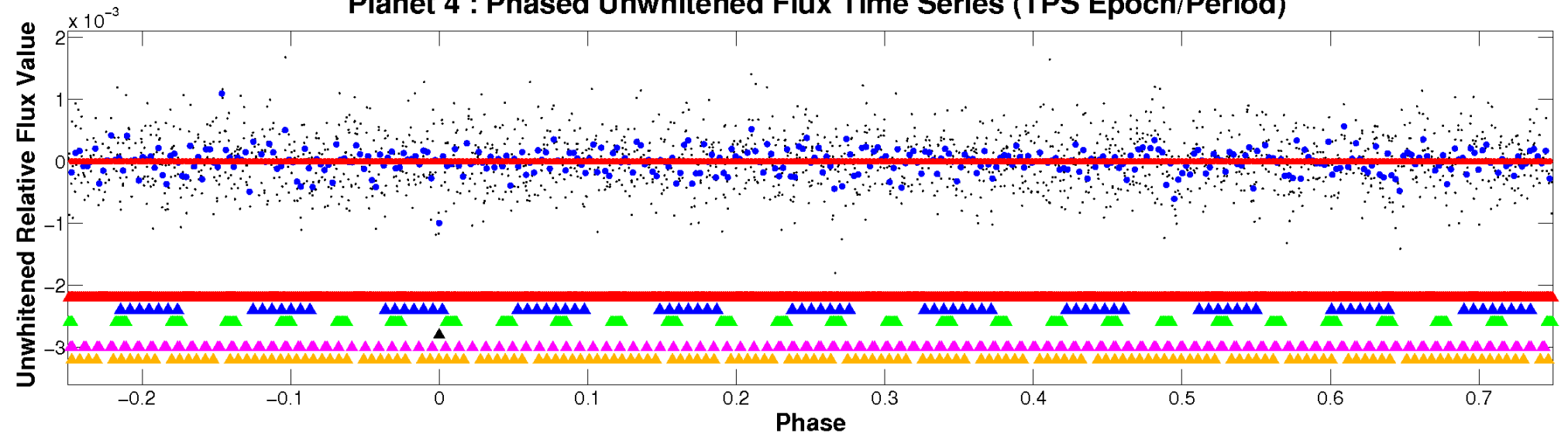


ALT Odd/Even

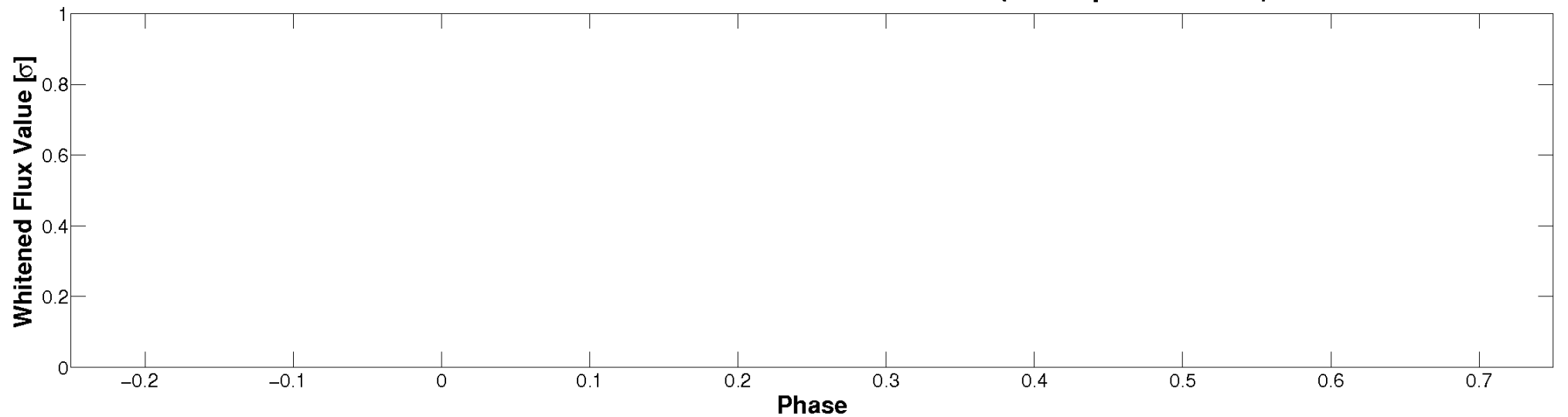
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

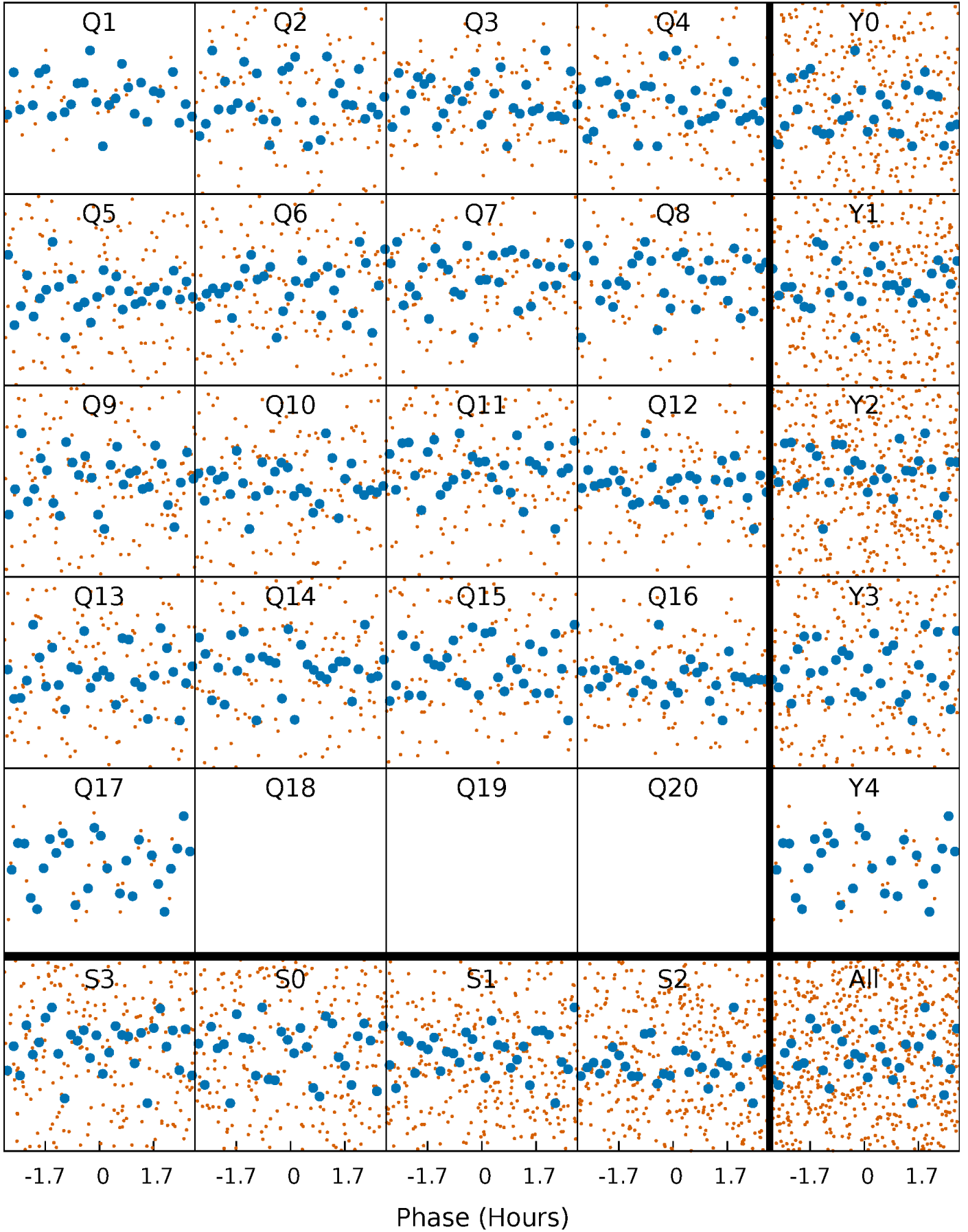


Planet 4 : Phased Whitened Flux Time Series (TPS Epoch/Period)



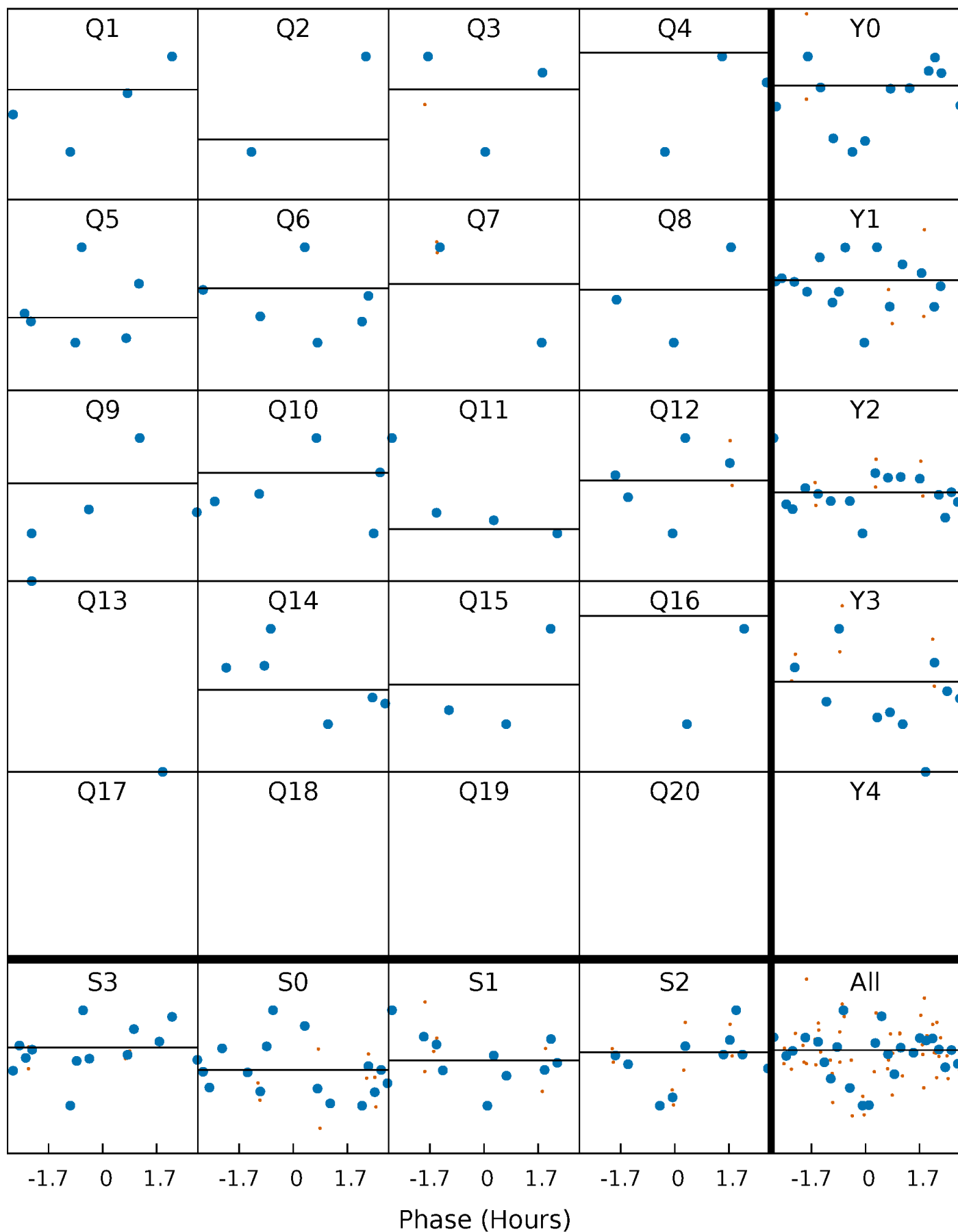
PDC Quarter-Phased Transit Curves

TCE 007287118-04 P= 7.680098 Days $T_0=137.467245$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007287118-04 P= 7.680098 Days $T_0=137.467245$ (BKJD)

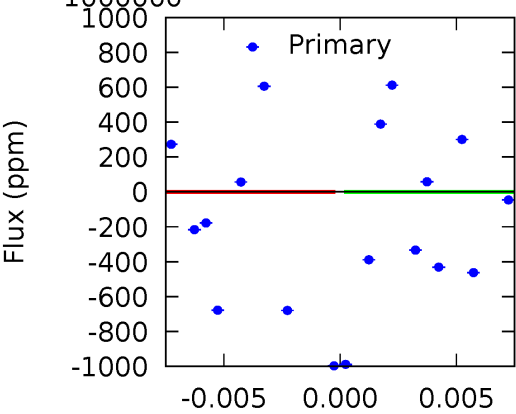
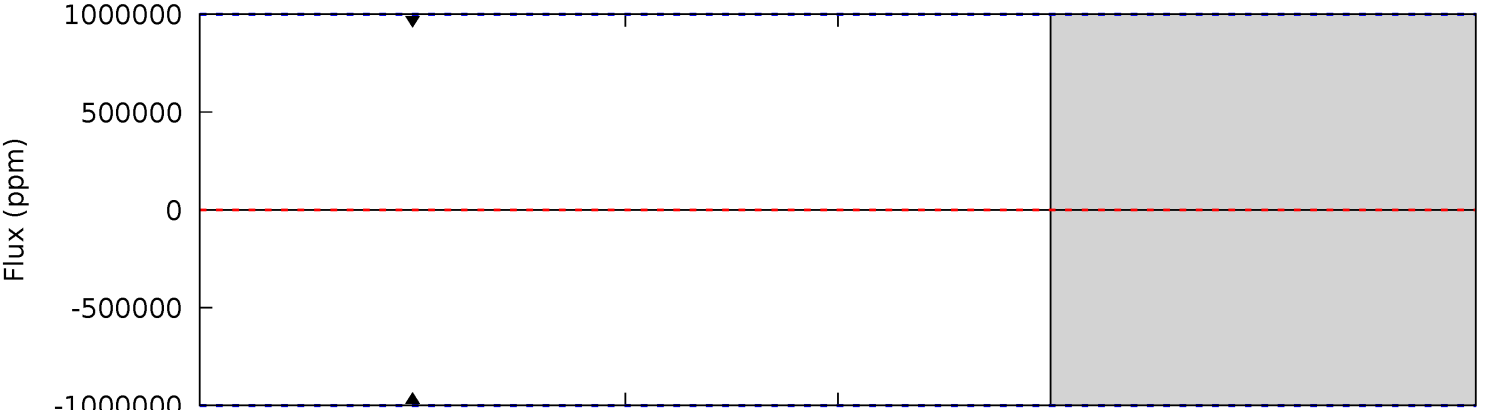
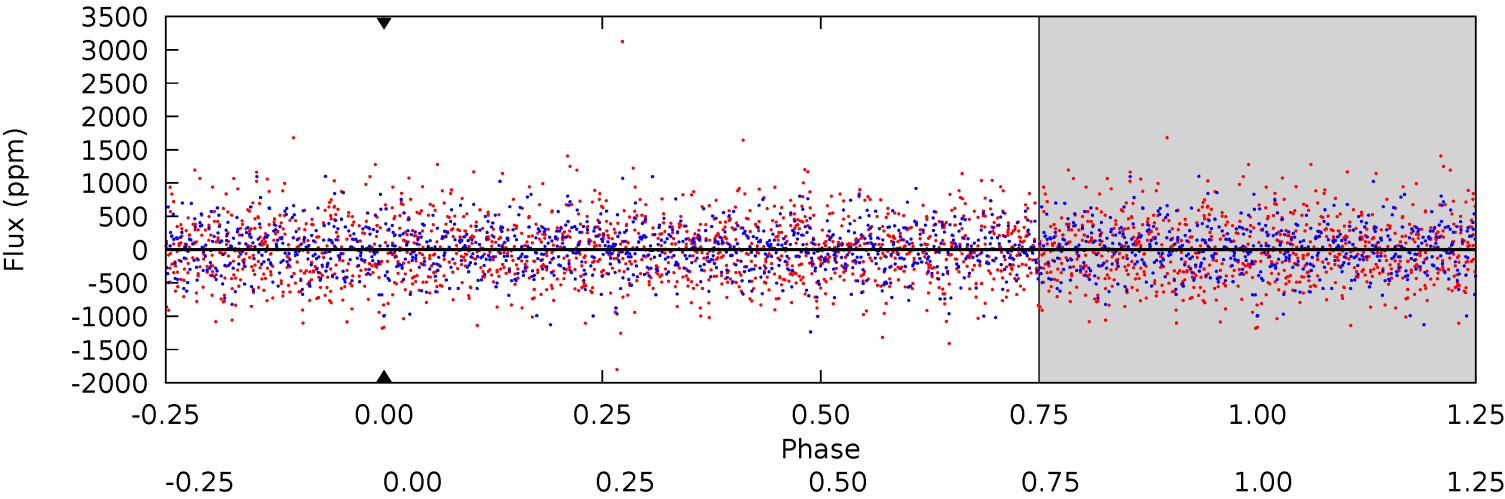


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007287118-04, P = 7.680098 Days, E = 129.787147 Days

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



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$23.43^{+28.26}_{-15.91}$	2798^{+213}_{-330}	-7014^{+50953}_{-36369}	$-21.383^{+1784.507}_{-1507.766}$
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 007287118-04. **Kepler magnitude: 10.72.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

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

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



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

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



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



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



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



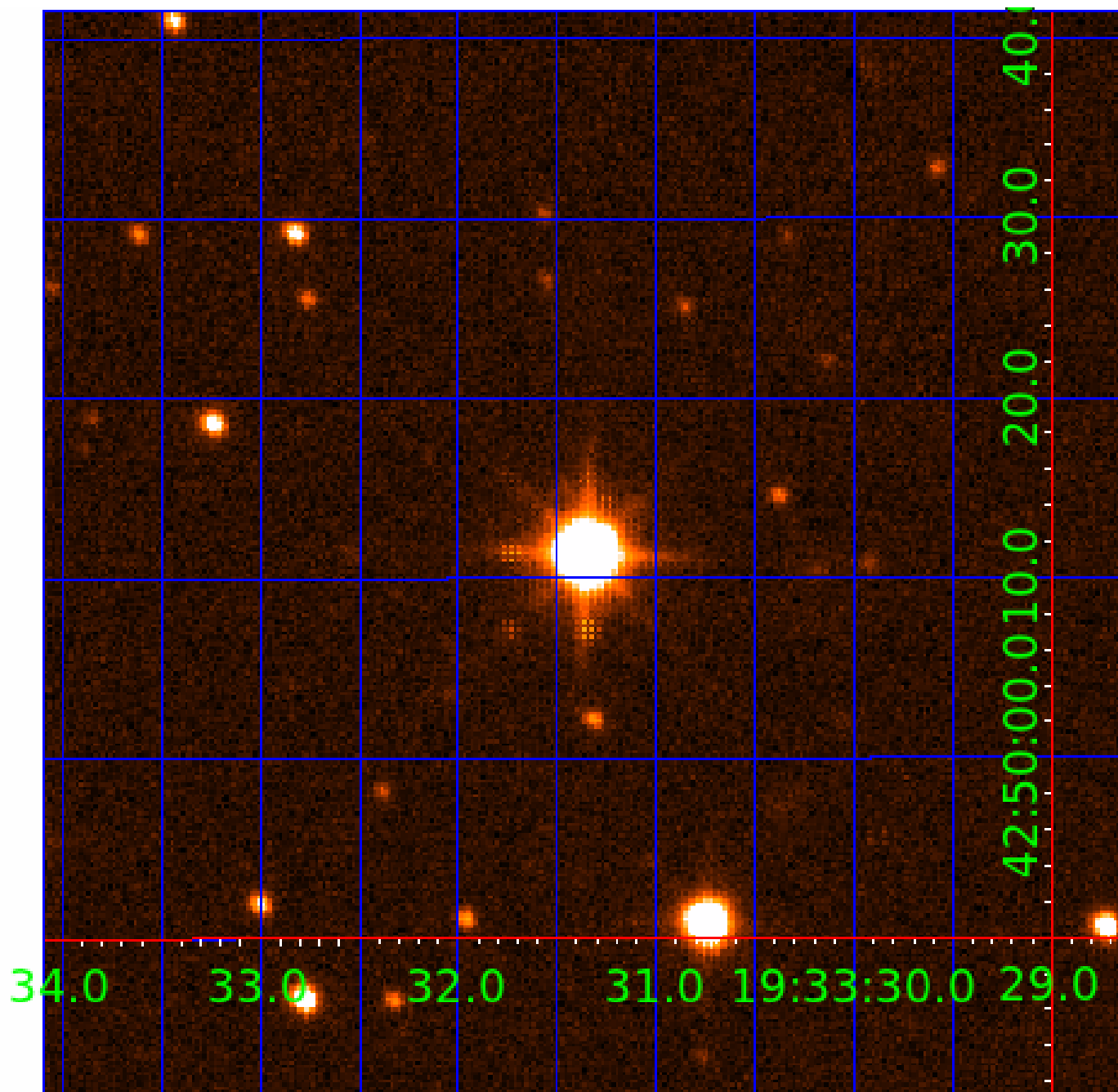
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

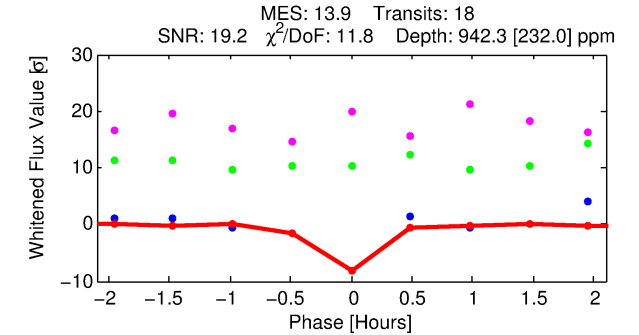
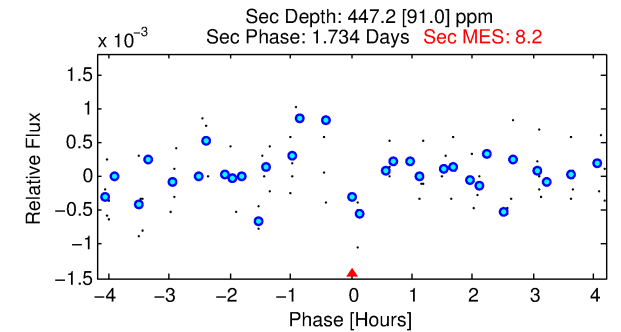
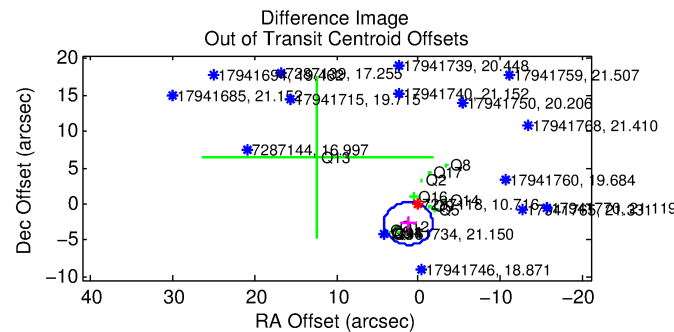
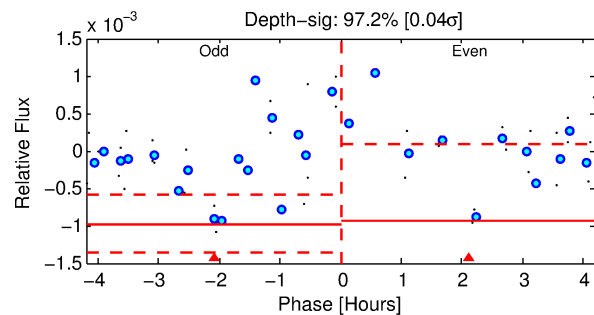
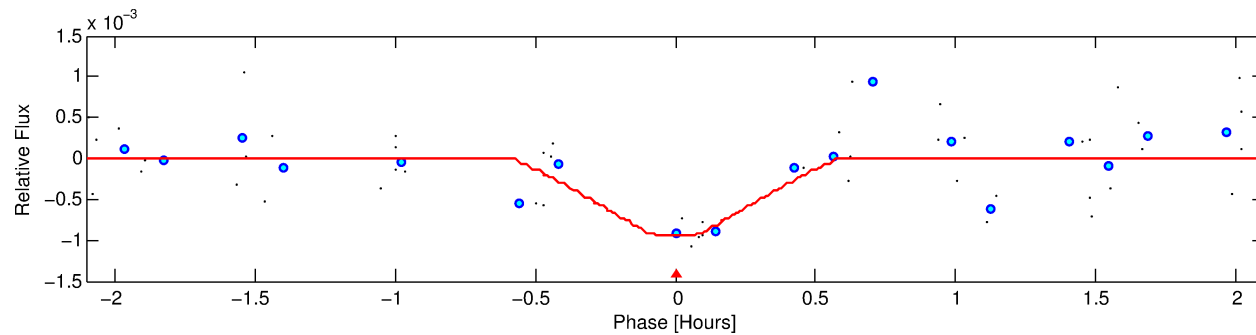
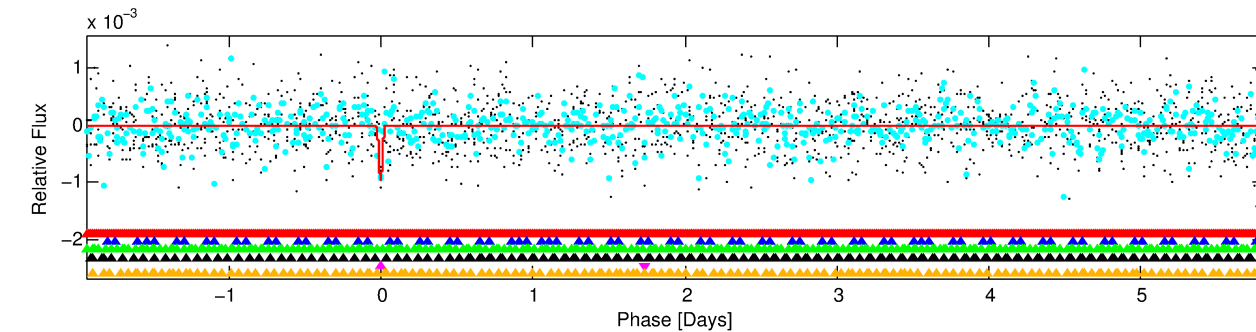
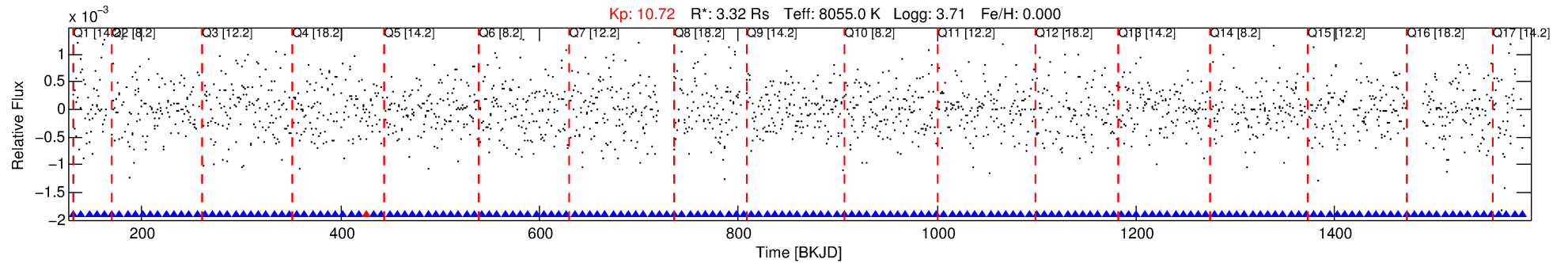
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-05

No Significant Match Found

DV One-Page Summary

KIC: 7287118 Candidate: 5 of 6 Period: 7.749 d



DV Fit Results:

Period = 7.74938 [0.00007] d
Epoch = 131.5429 [0.0084] BKJD
 $R_p/R^* = 0.0290$ [0.0717]
 $a/R^* = 86.13$ [1221.20]
 $b = 0.14$ [99.44]
Seff = 4340.70 [3193.72]
Teff = 2070 [381] K
 $R_p = 10.49$ [26.44] R_e
 $a = 0.0979$ [0.0440] AU
 $Ag = 21.40$ [107.16] [0.19 σ]
Teffp = 6883 [8531] K [0.56 σ]

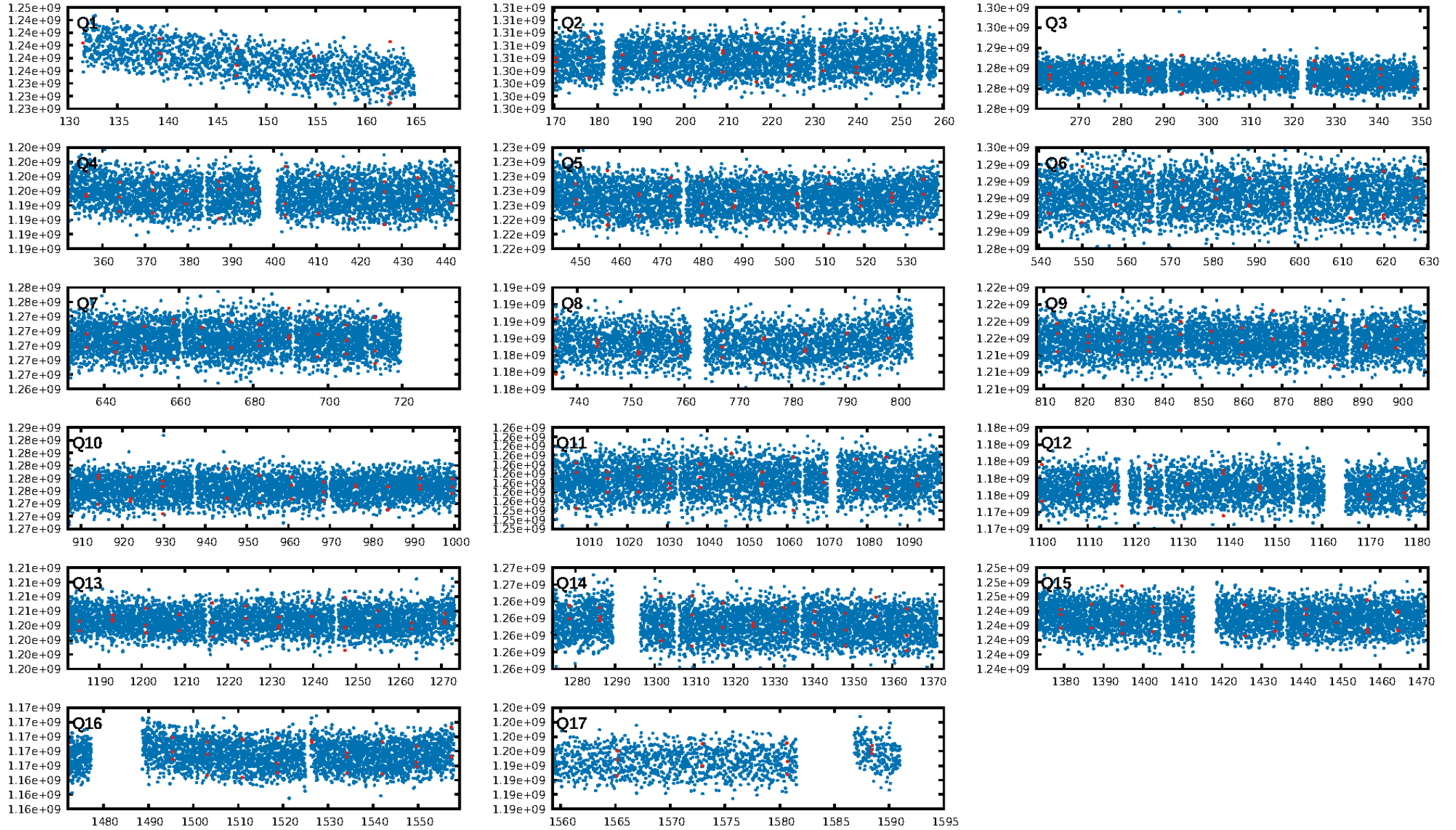
DV Diagnostic Results:

ShortPeriod-sig: 68.5% [1.00 σ]
LongPeriod-sig: 100.0% [12.40 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 6.5%
Bootstrap-pfa: 1.24e-07
RollingBand-fgt: 0.94 [16/17]
GhostDiagnostic-chr: -0.3744
Centroid-sig: N/A
Centroid-so: 0.563 arcsec [7.24 σ]
OotOffset-rm: 2.968 arcsec [3.03 σ]
KicOffset-rm: 1.935 arcsec [1.72 σ]
OotOffset-st: 2/3/4/5 [14]
KicOffset-st: 2/3/4/5 [14]
DiffImageQuality-fgm: 0.14 [2/14]
DiffImageOverlap-fno: 0.00 [0/17]

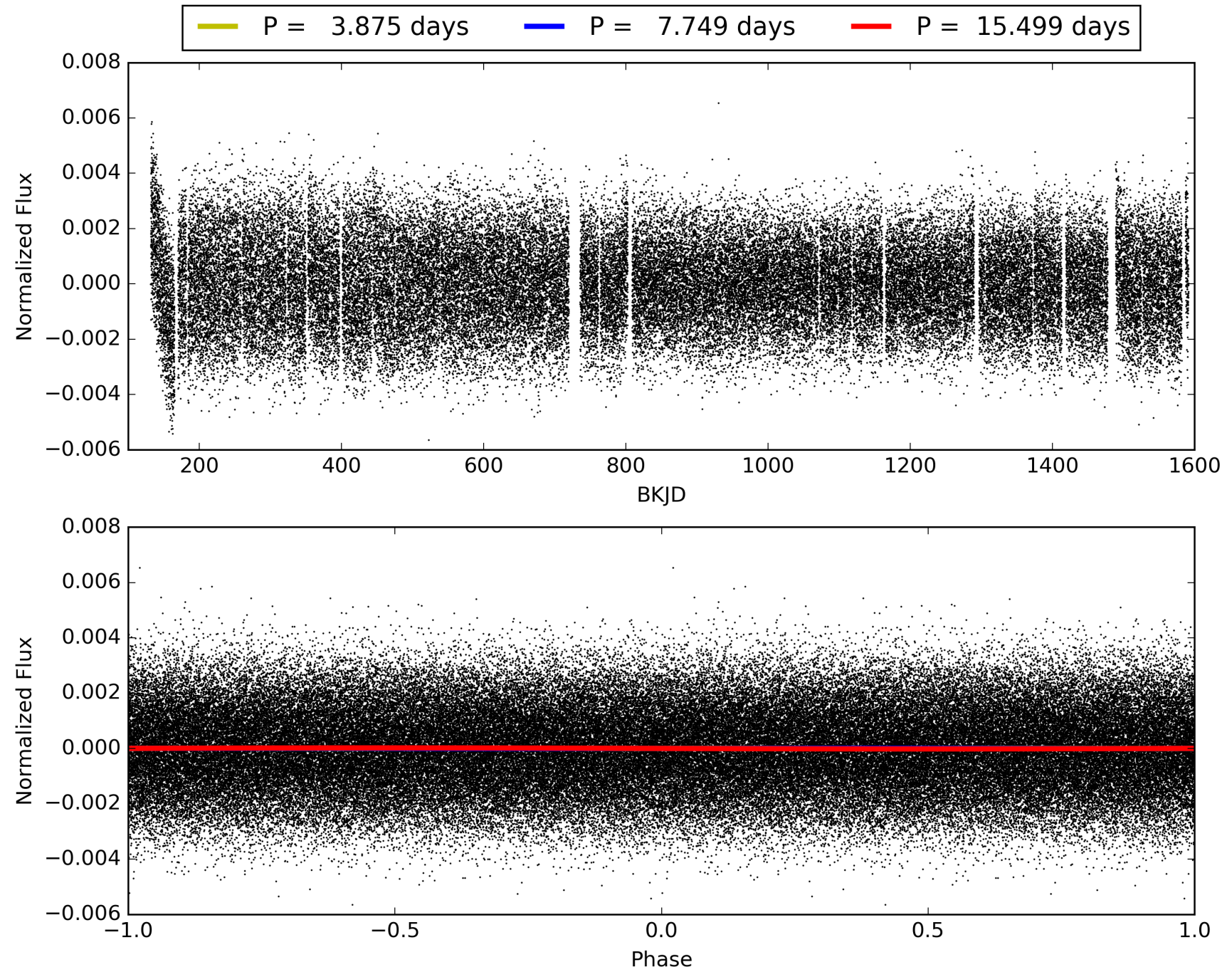
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:02:46 Z

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

TCE 007287118-05, PDC Light Curves

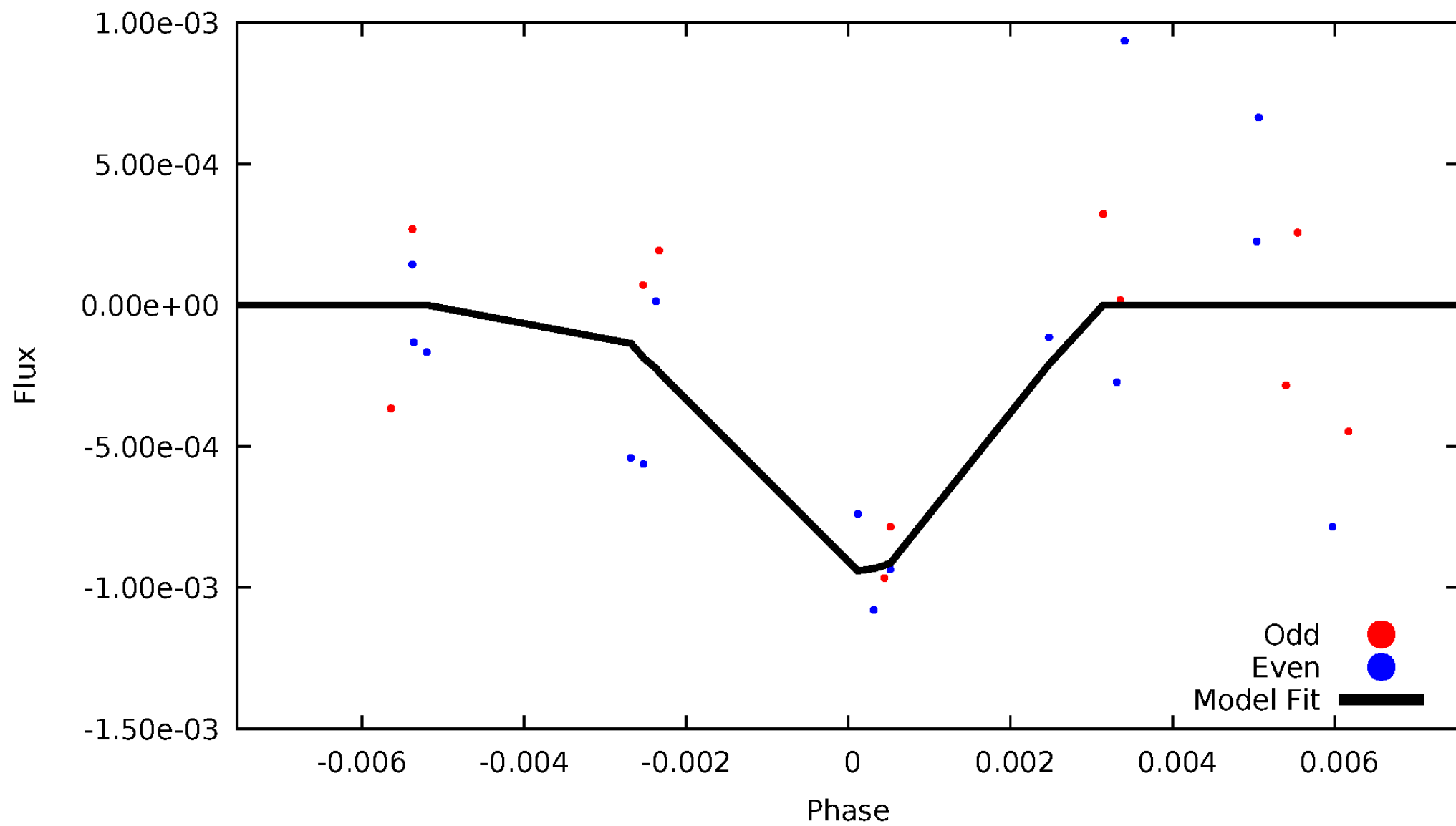


TCE 007287118-05



DV Odd/Even

TCE 007287118-05

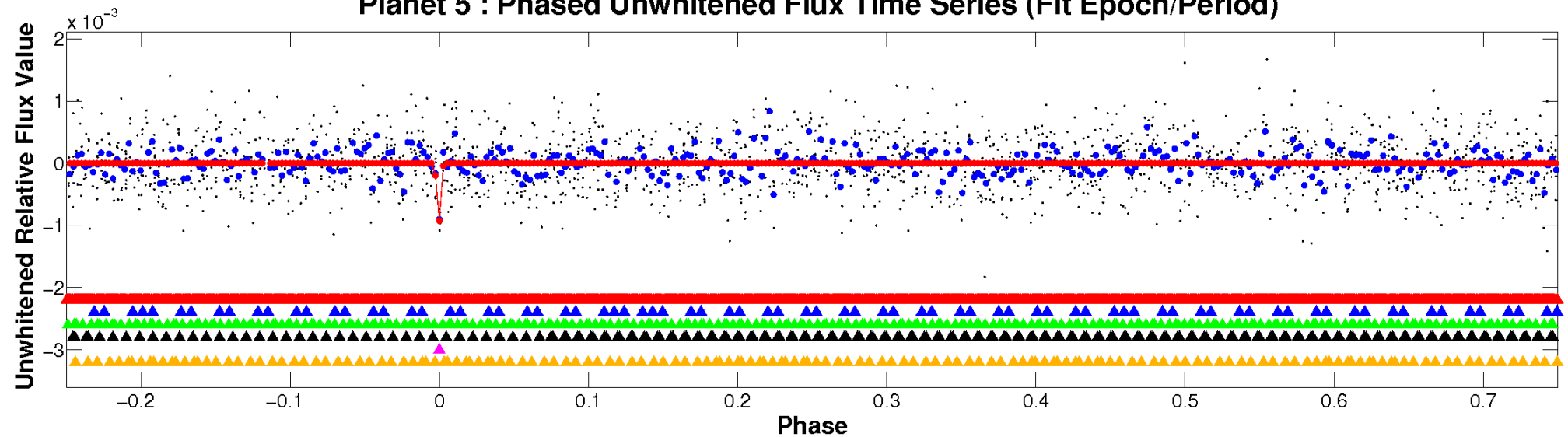


ALT Odd/Even

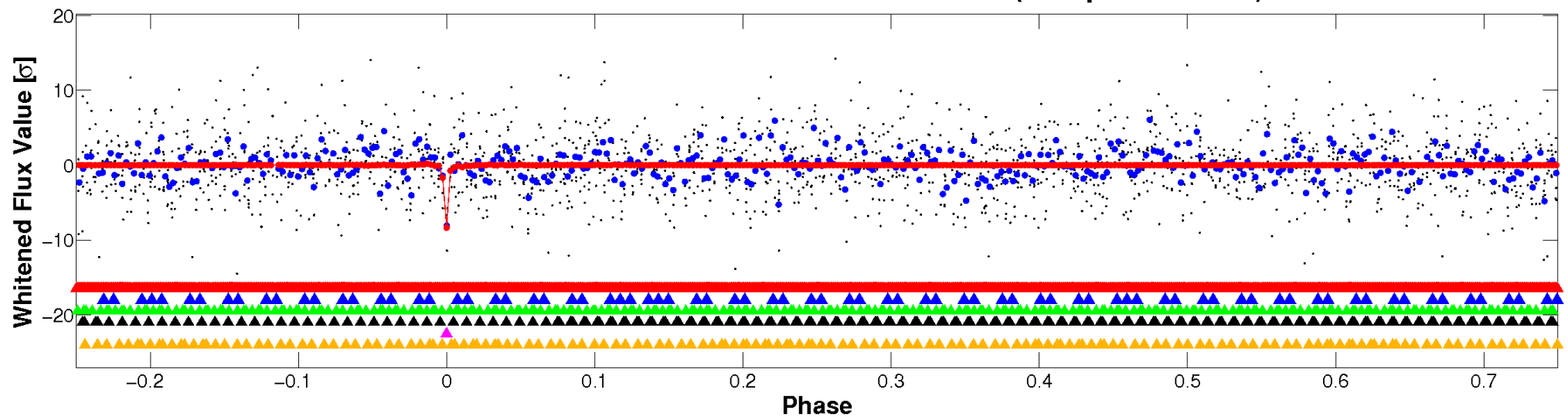
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

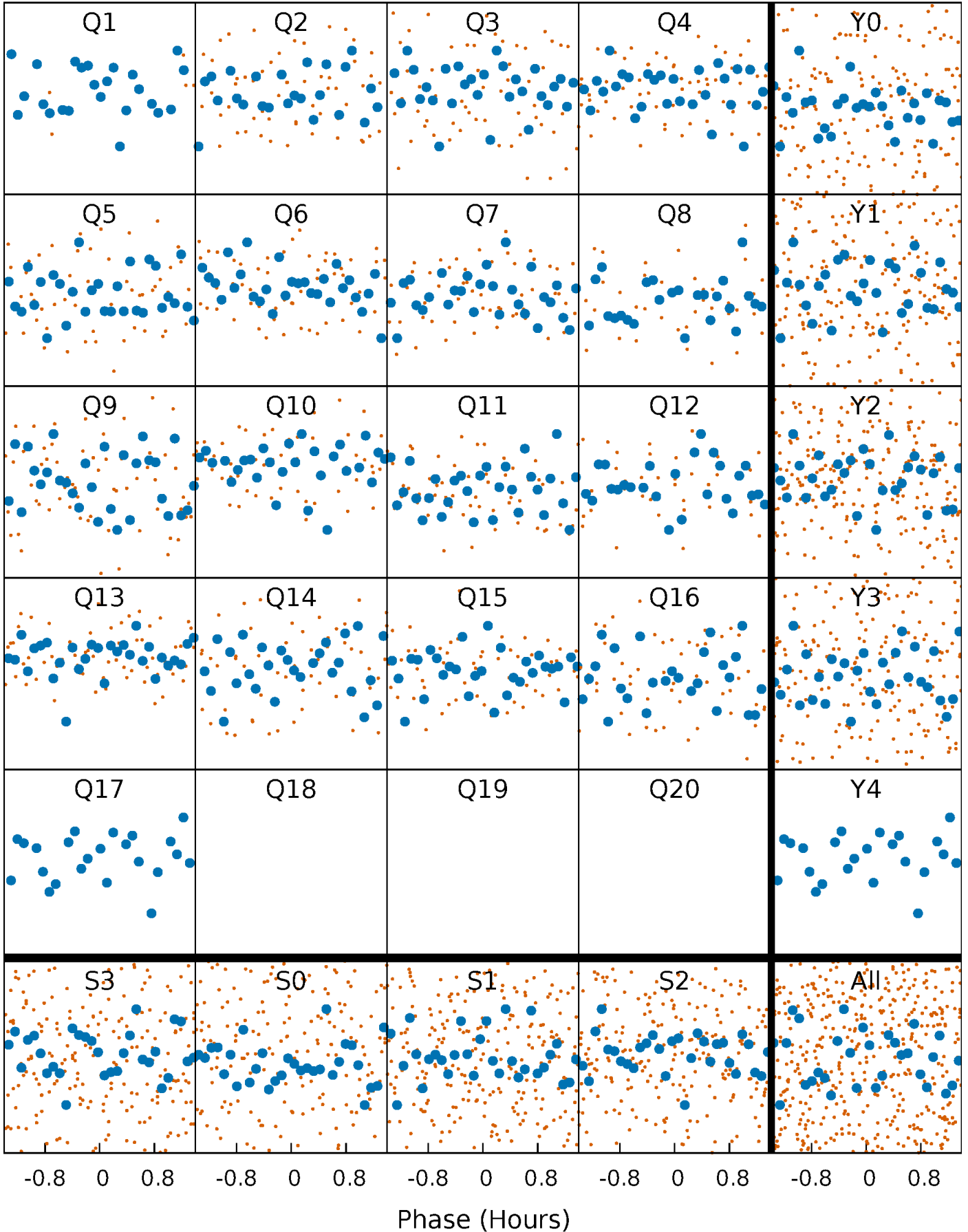


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



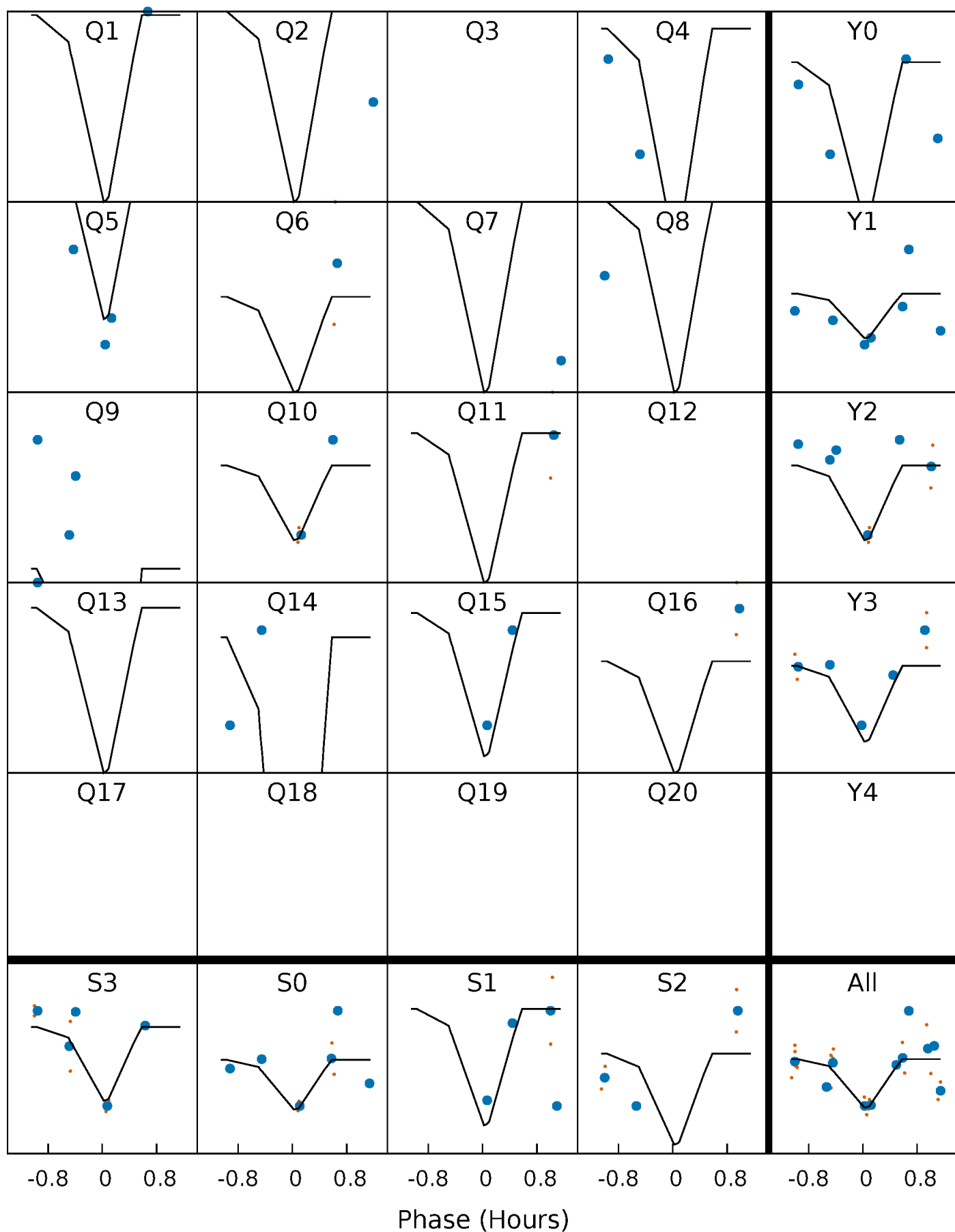
PDC Quarter-Phased Transit Curves

TCE 007287118-05 P= 7.749378 Days $T_0=131.542850$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007287118-05 P= 7.749378 Days $T_0=131.542850$ (BKJD)

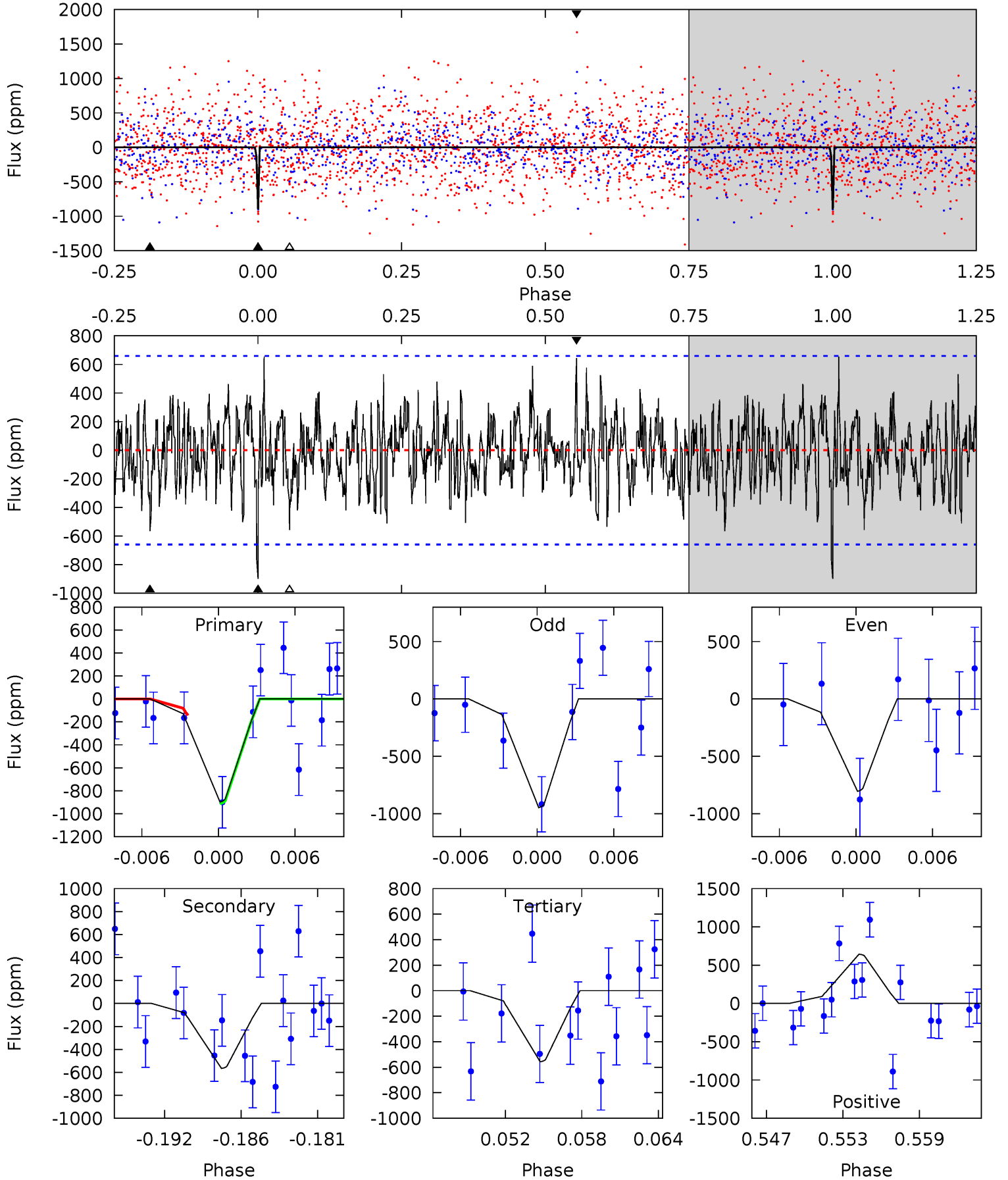


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007287118-05, P = 7.749378 Days, E = 131.542850 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.99	4.41	4.34	5.01	5.13	2.76	1.53	2.65	1.98	0.07	-0.61	0.54	0	0.42	2.94



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-566 ± 128	$19.88^{+21.50}_{-13.58}$	2782^{+249}_{-326}	4964^{+4080}_{-1275}	$7.801^{+71.781}_{-6.079}$
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

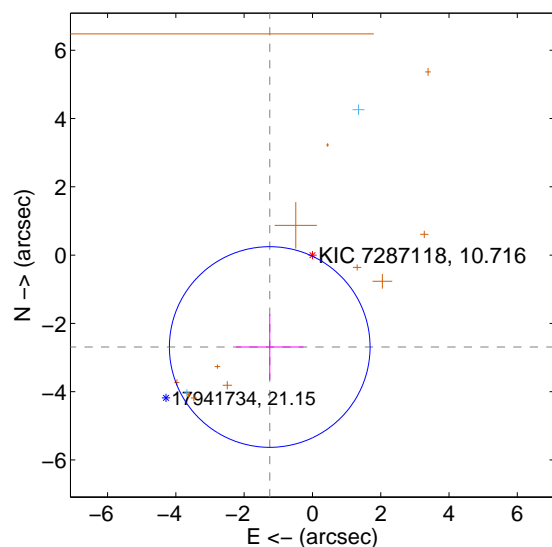
Supplemental centroid analysis for 007287118-05. **Kepler magnitude: 10.72.** Transit SNR 19.24

There are 2 quarters with good PRF difference image offsets

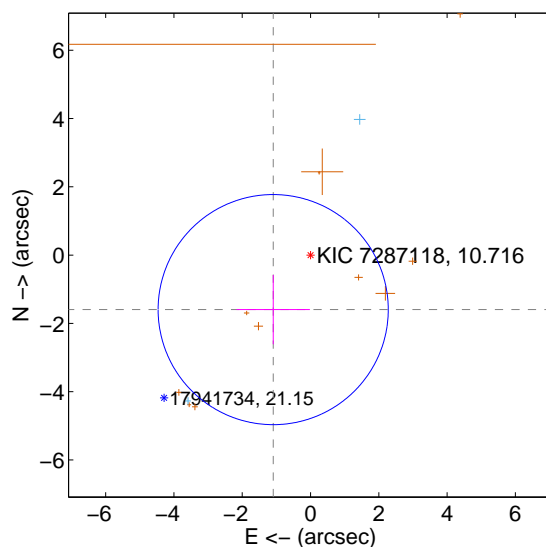
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.968 ± 0.979	3.03	1.250 ± 0.990	-2.692 ± 0.964
PRF-fit source offset from KIC position	1.935 ± 1.123	1.72	1.093 ± 1.075	-1.596 ± 1.015
photometric centroid source offset	0.56 ± 0.08	7.24	-0.29 ± 0.06	0.49 ± 0.08

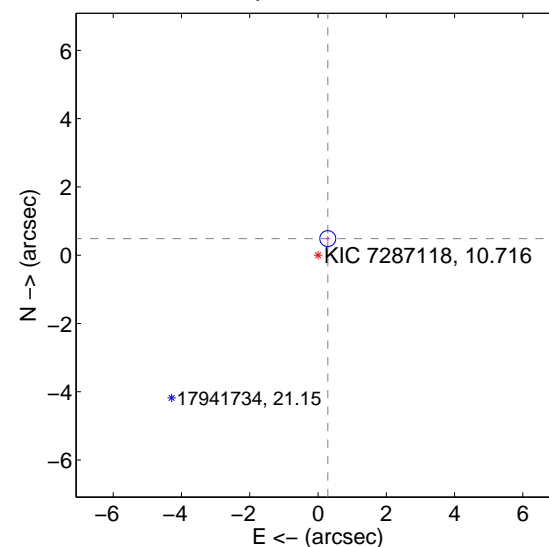
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

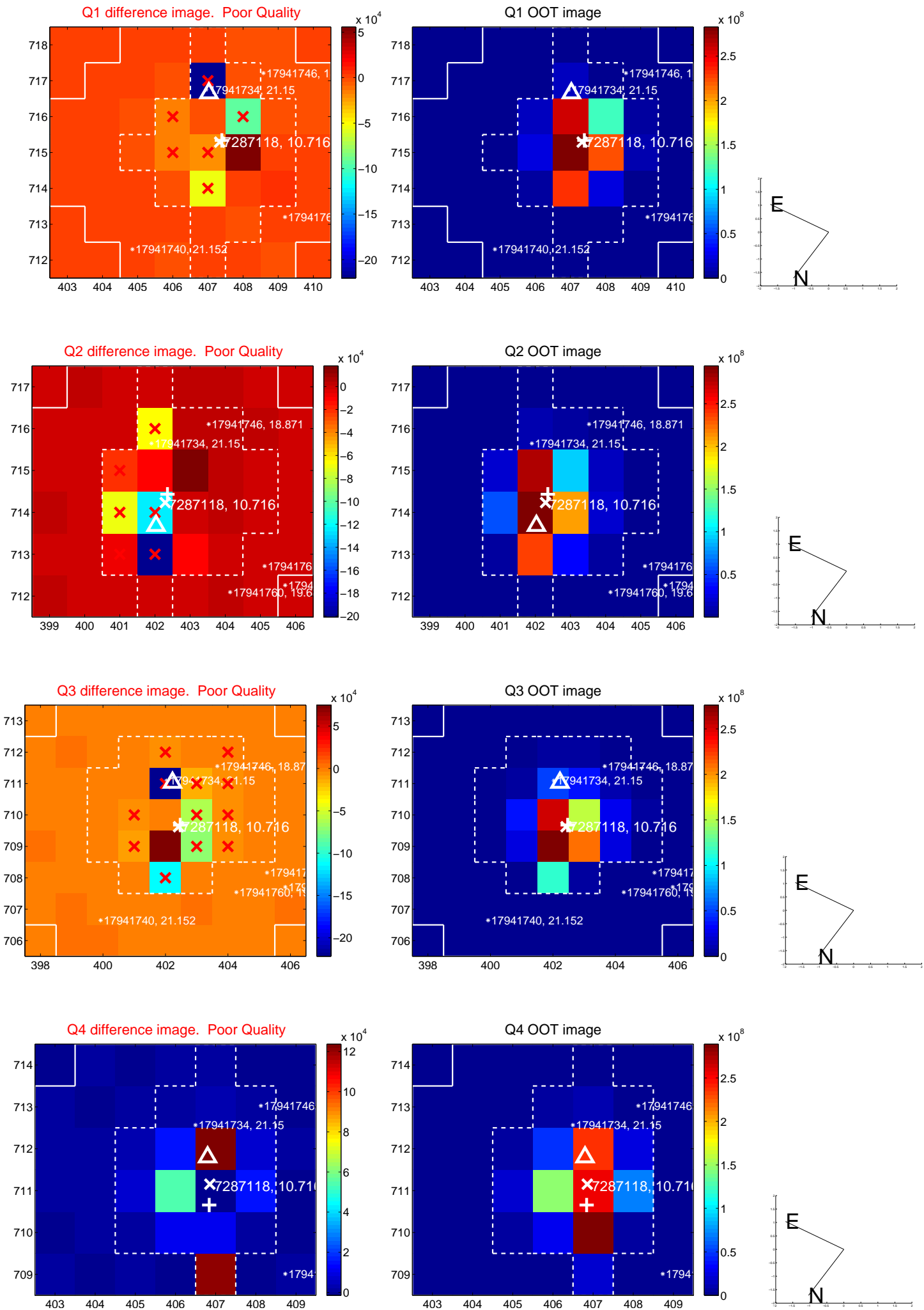


offset from photometric centroids

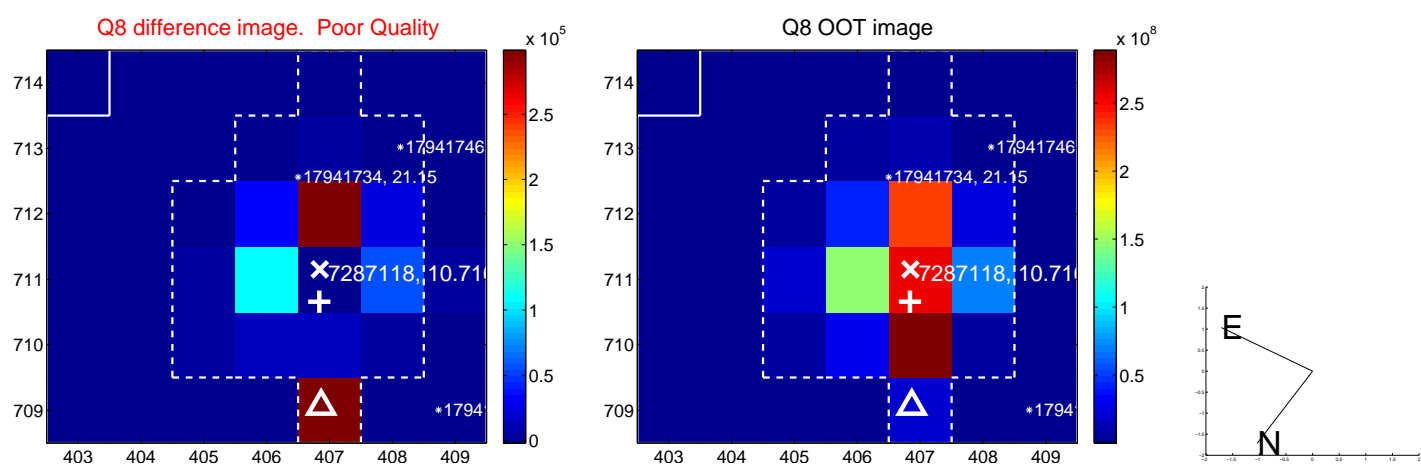
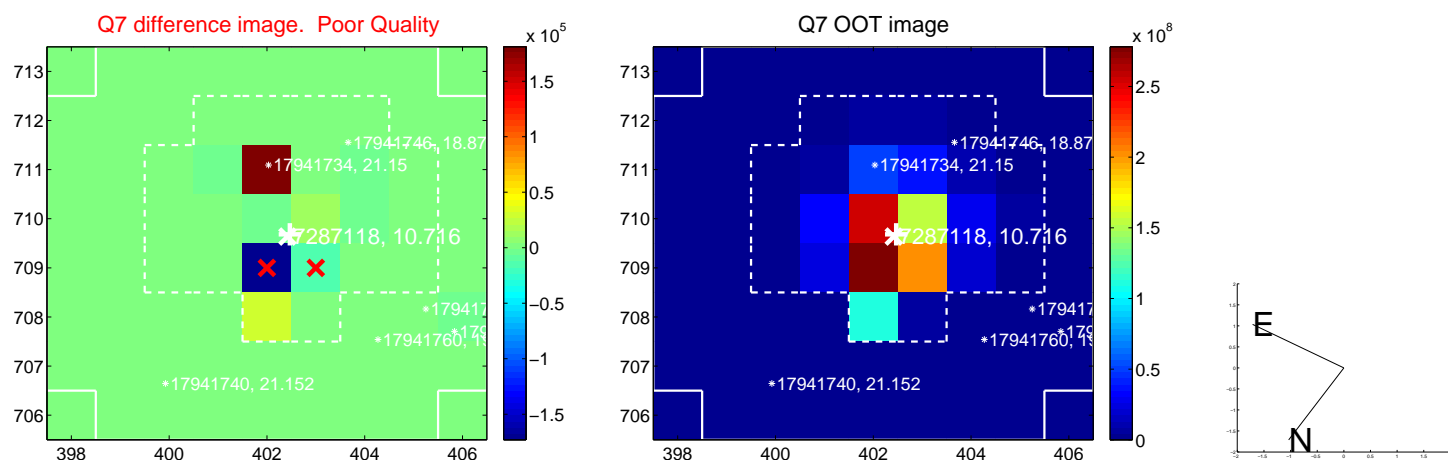
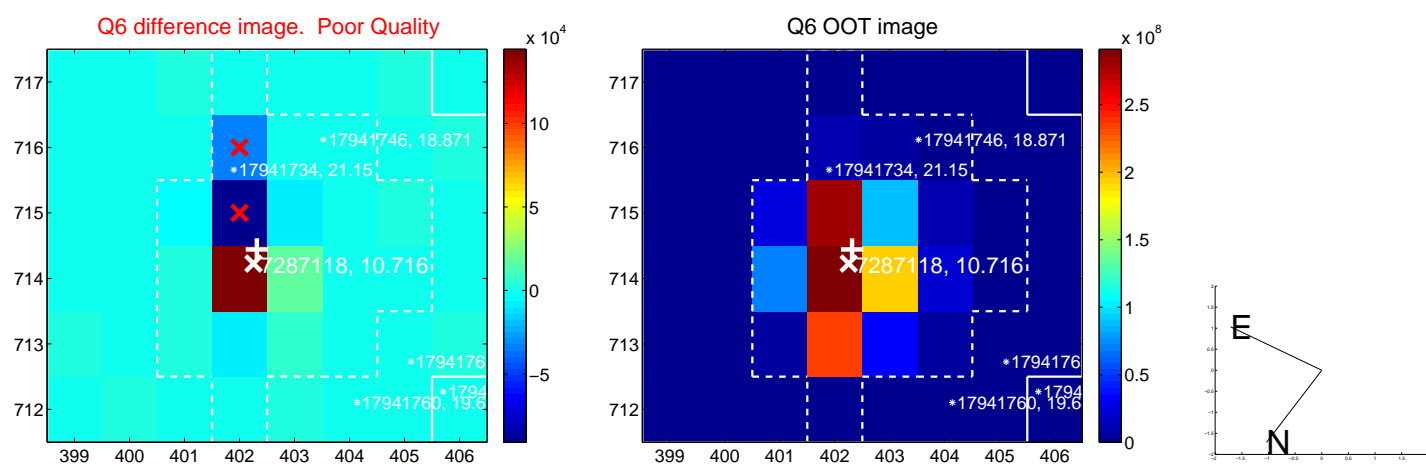
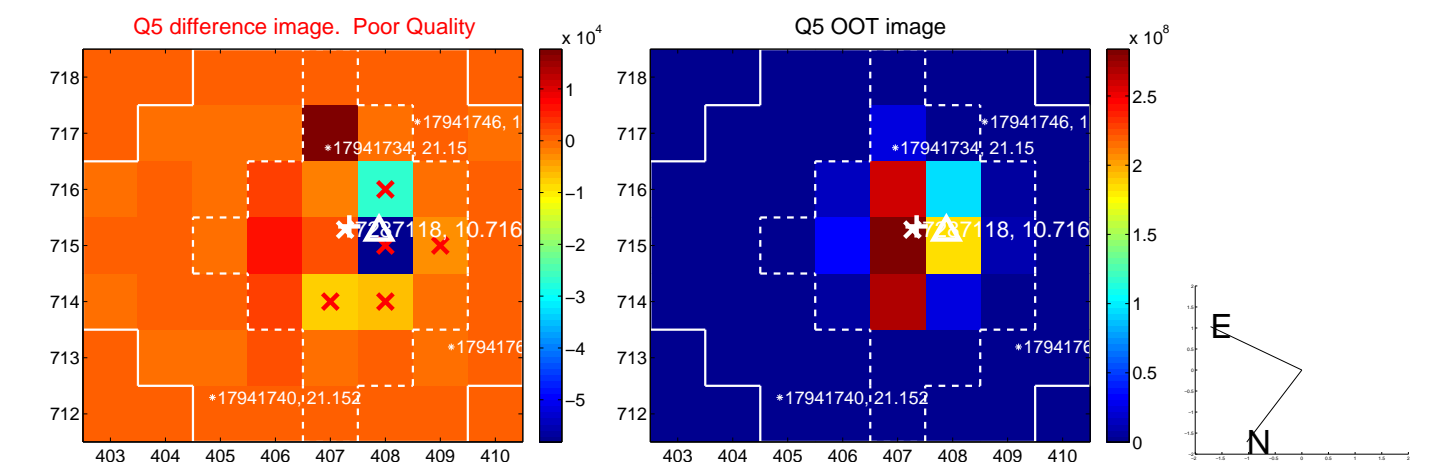


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

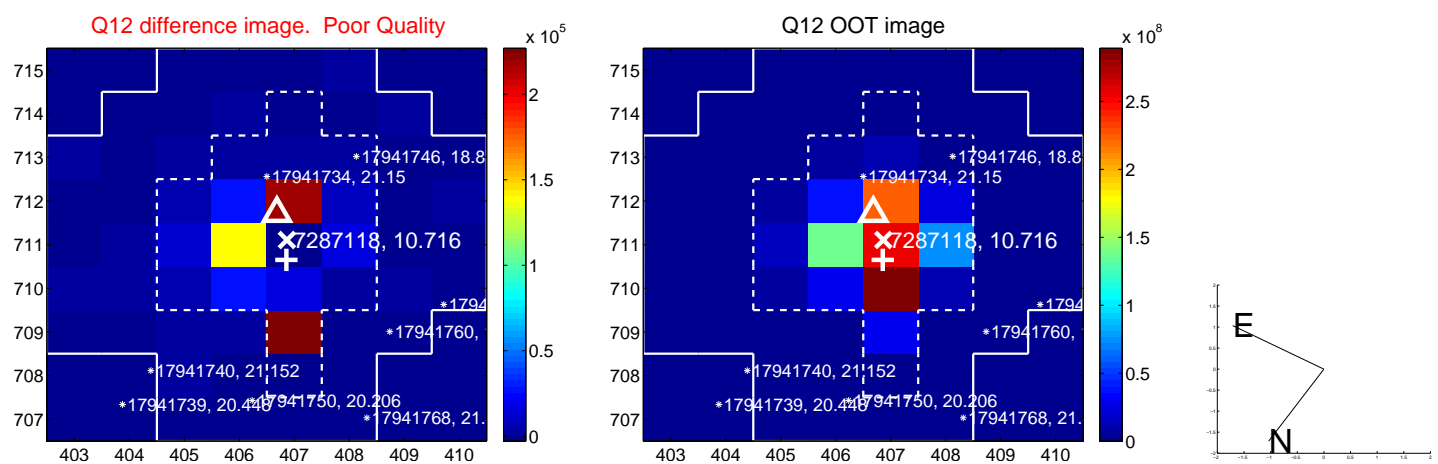
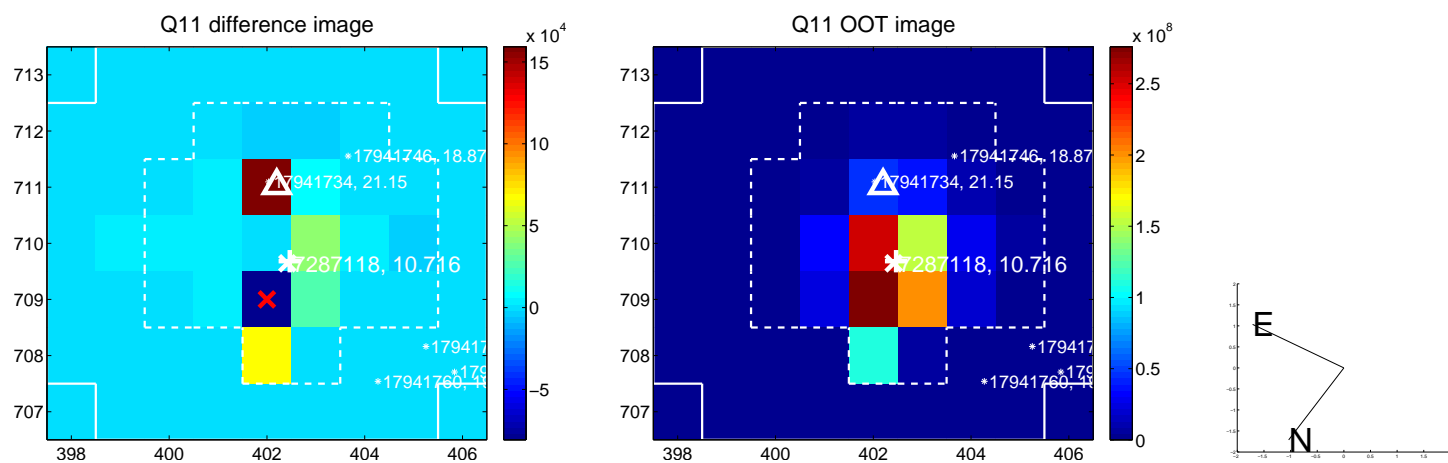
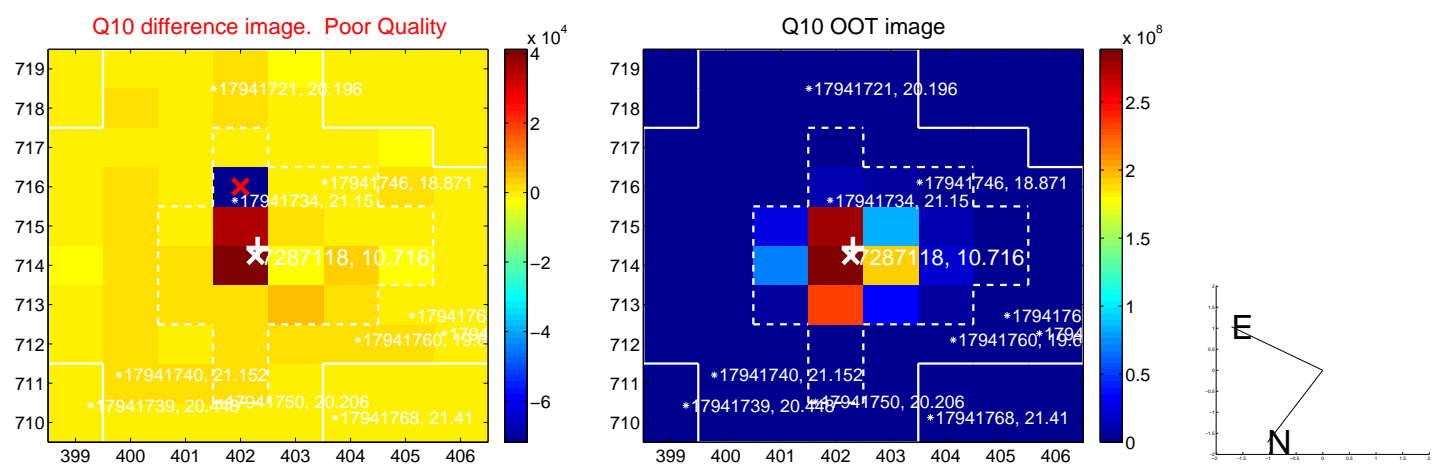
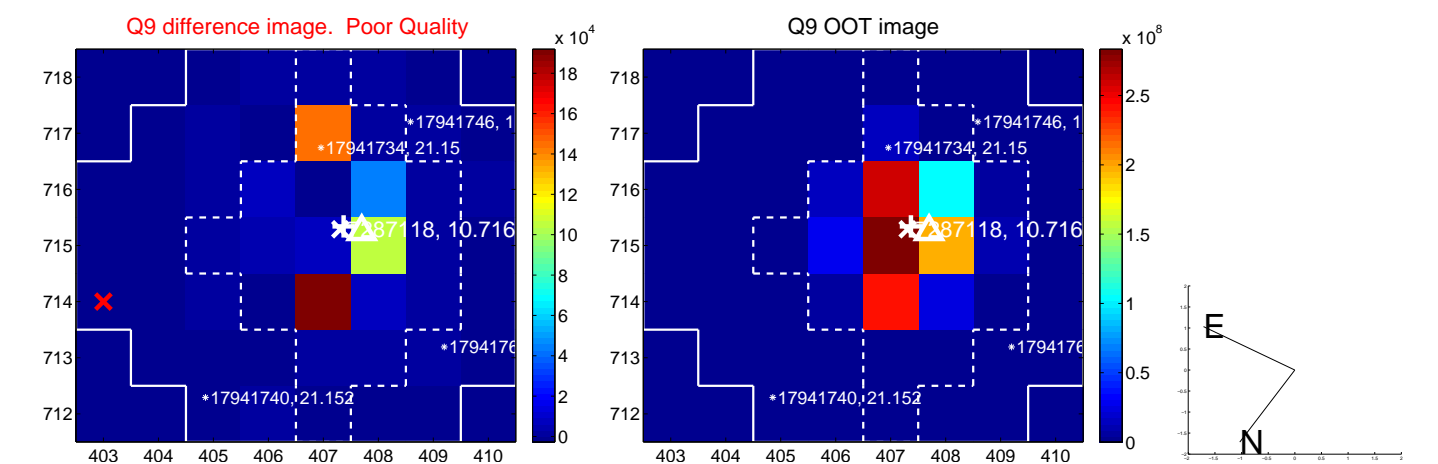
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



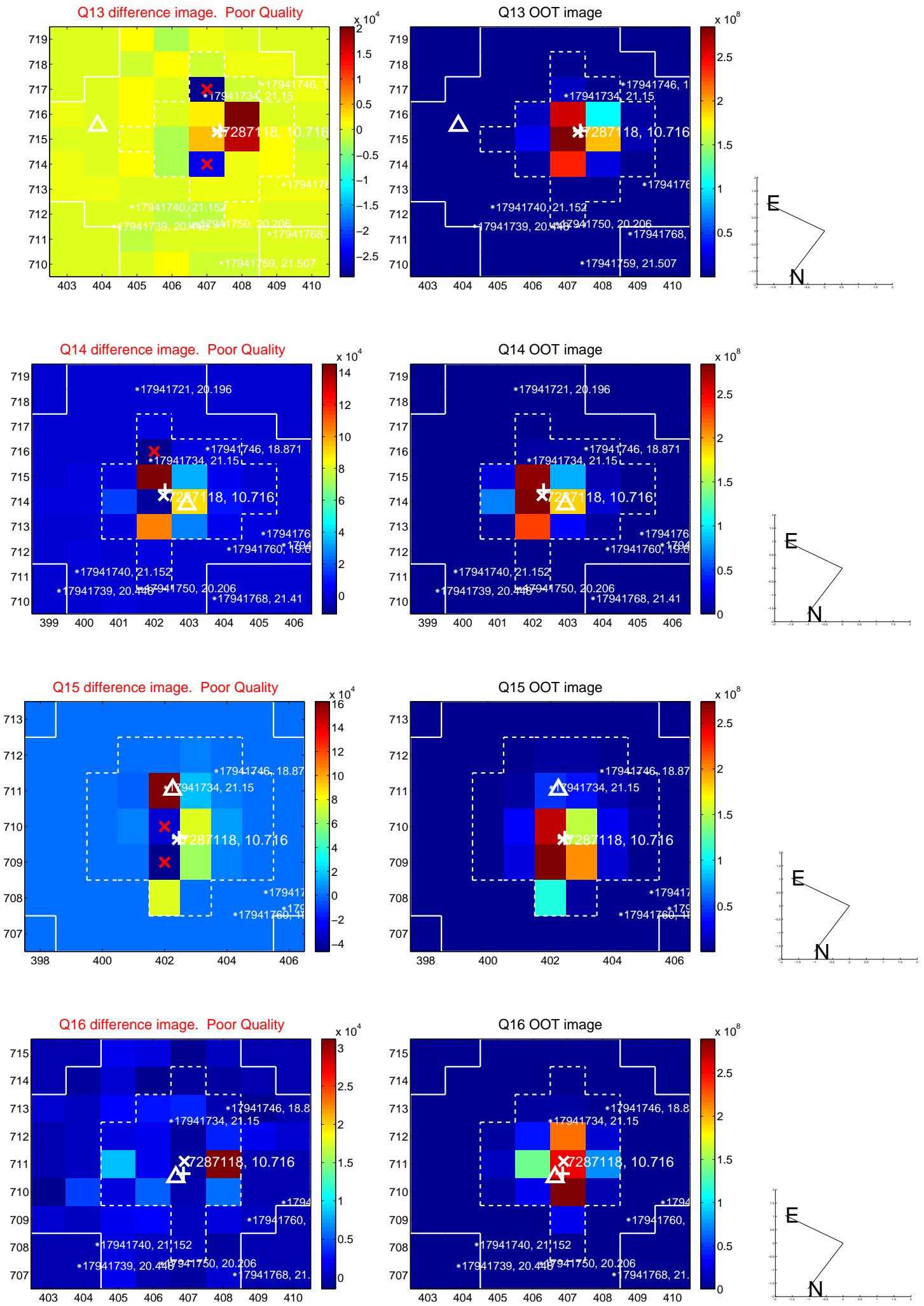
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



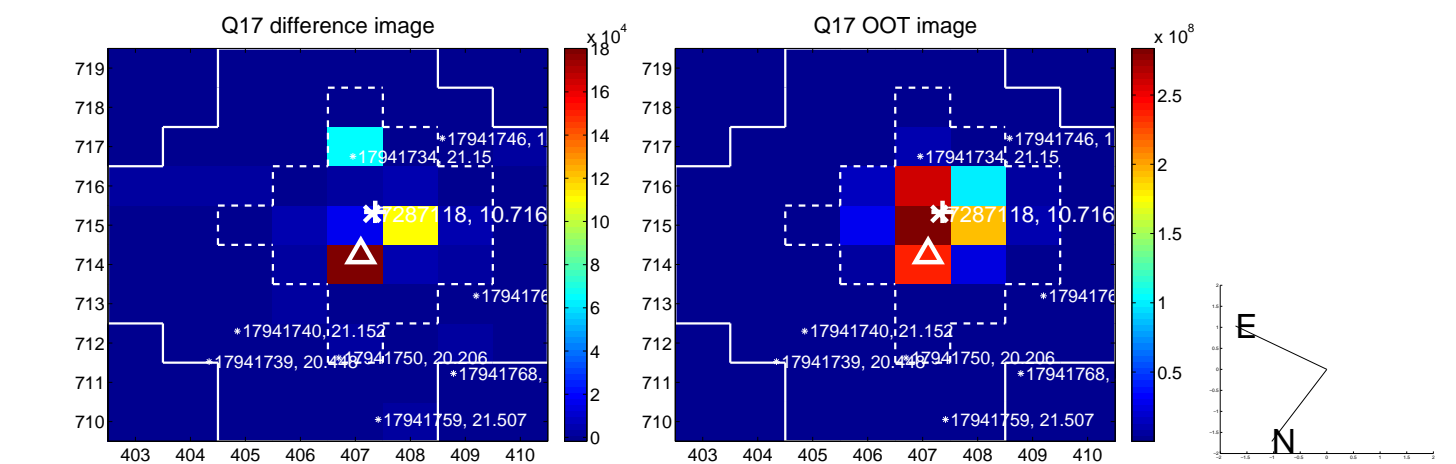
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



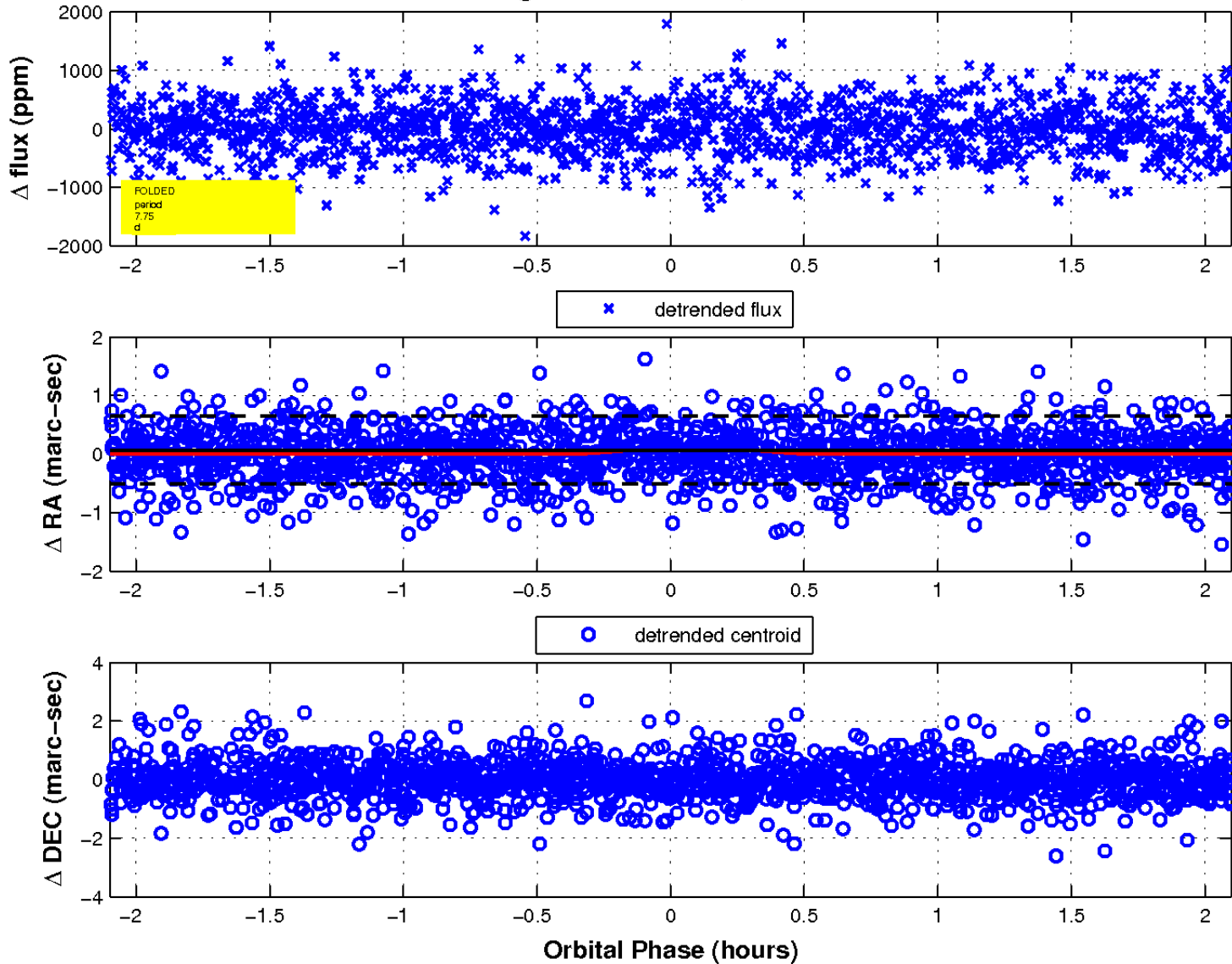
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

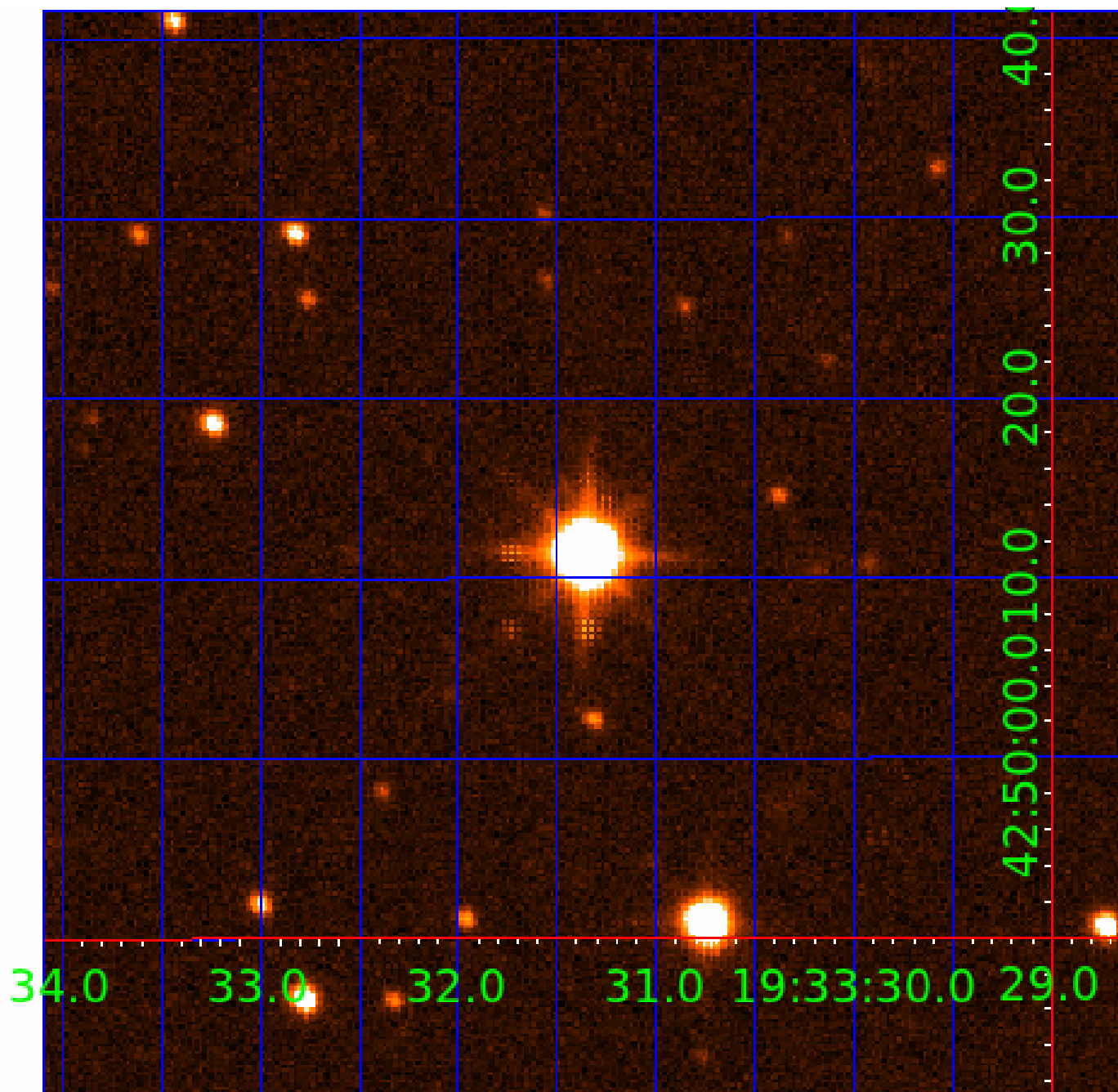


fluxWeightedCentroids, Planet 5 of 6



UKIRT Image

Declination



KIC 007287118

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})
007287118-01	OBS	No	0.585050	132.010013	32.0	4.359	14.2	12.6	3.32	8055	1.90	136037.17
007287118-02	OBS	No	18.148497	148.001610	370.0	2.466	9.7	9.5	3.32	8055	6.73	1395.71
007287118-03	OBS	No	5.404750	136.360354	289.5	1.999	11.1	10.8	3.32	8055	5.75	7018.02
007287118-04	OBS	No	7.680098	137.467245	139.7	1.500	12.4	-1.0	3.32	8055	3.98	4392.98
007287118-05	OBS	No	7.749378	131.542850	942.3	0.701	13.9	19.2	3.32	8055	10.49	4340.70
007287118-06	OBS	No	9.276500	133.453970	399.9	2.872	11.8	12.4	3.32	8055	6.97	3415.10

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007287118-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_SATURATED
007287118-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_SATURATED
007287118-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_TRACKER—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—NO_FITS—CENT_SATURATED
007287118-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED
007287118-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST

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

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

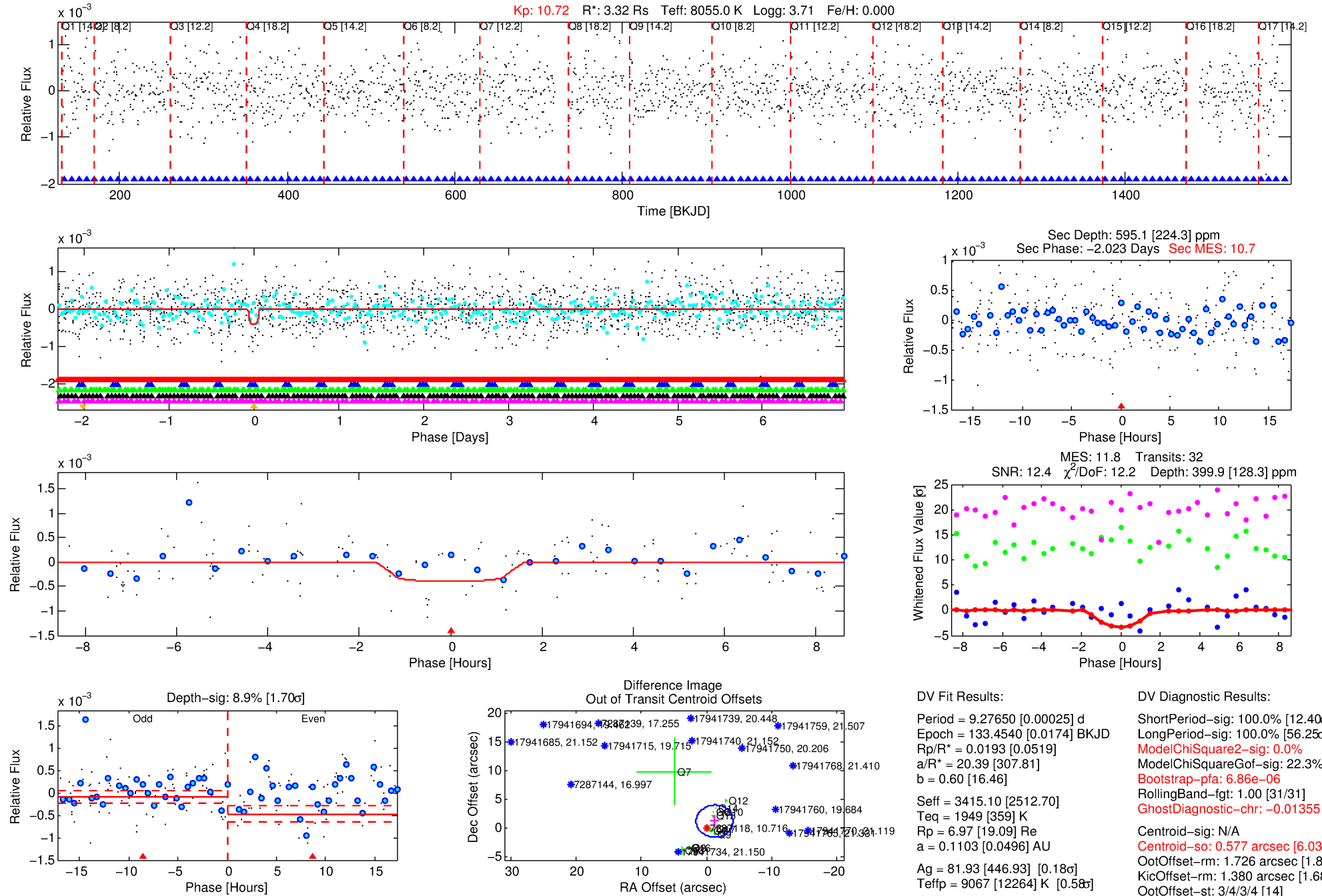
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007287118-06

No Significant Match Found

DV One-Page Summary

KIC: 7287118 Candidate: 6 of 6 Period: 9.277 d



DV Fit Results:

Period = 9.27650 [0.00025] d
Epoch = 133.4540 [0.0174] BKJD
Rp/R* = 0.0193 [0.0519]
a/R* = 20.39 [307.81]
b = 0.60 [16.46]
Seff = 3415.10 [2512.70]
Teff = 1949 [359] K
Rp = 6.97 [19.09] Re
a = 0.1103 [0.0496] AU
Ag = 81.93 [446.93] [0.18σ]
Teffp = 9067 [12264] K [0.58σ]

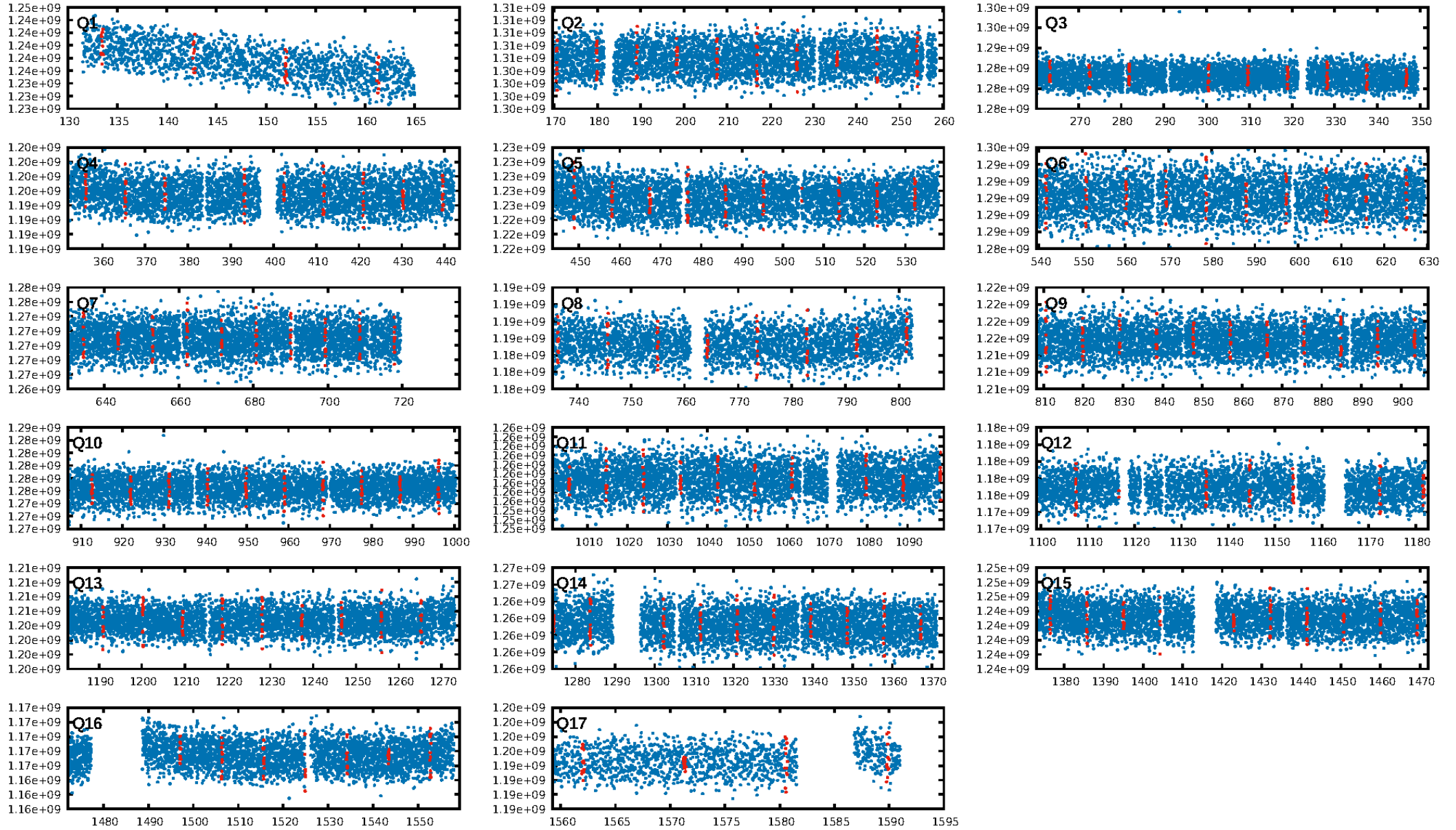
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [12.40σ]
LongPeriod-sig: 100.0% [56.25σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 22.3%
Bootstrap-pfa: 6.86e-06
RollingBand-fgt: 1.00 [31/31]
GhostDiagnostic-chr: -0.01355
Centroid-sig: N/A
Centroid-so: 0.577 arcsec [6.03σ]
OotOffset-rm: 1.726 arcsec [1.84σ]
KicOffset-rm: 1.380 arcsec [1.68σ]
OotOffset-st: 3/4/3/4 [14]
KicOffset-st: 3/4/3/4 [14]
DiffImageQuality-fgm: 0.36 [5/14]
DiffImageOverlap-fno: 0.00 [0/17]

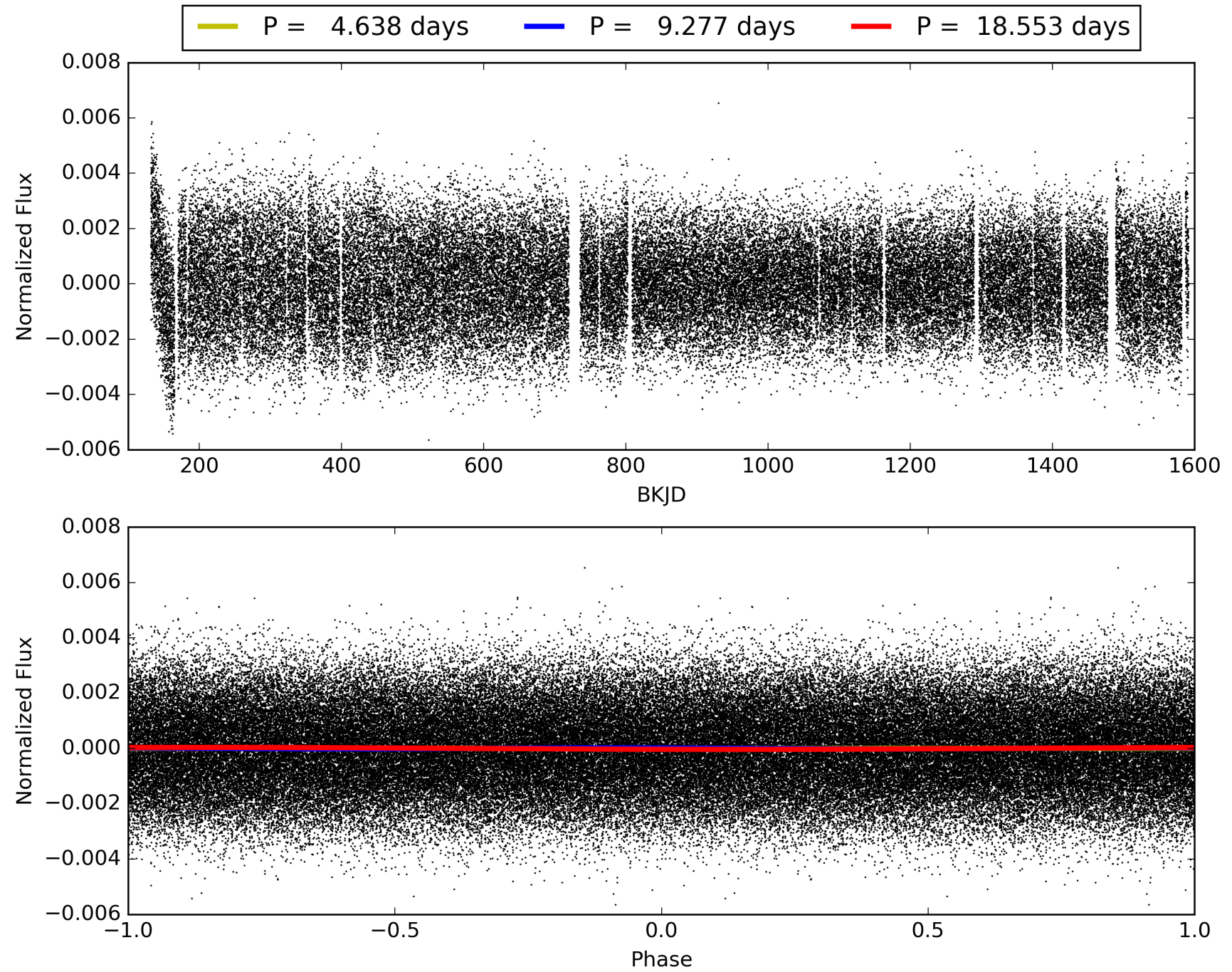
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:02:49 Z

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

TCE 007287118-06, PDC Light Curves

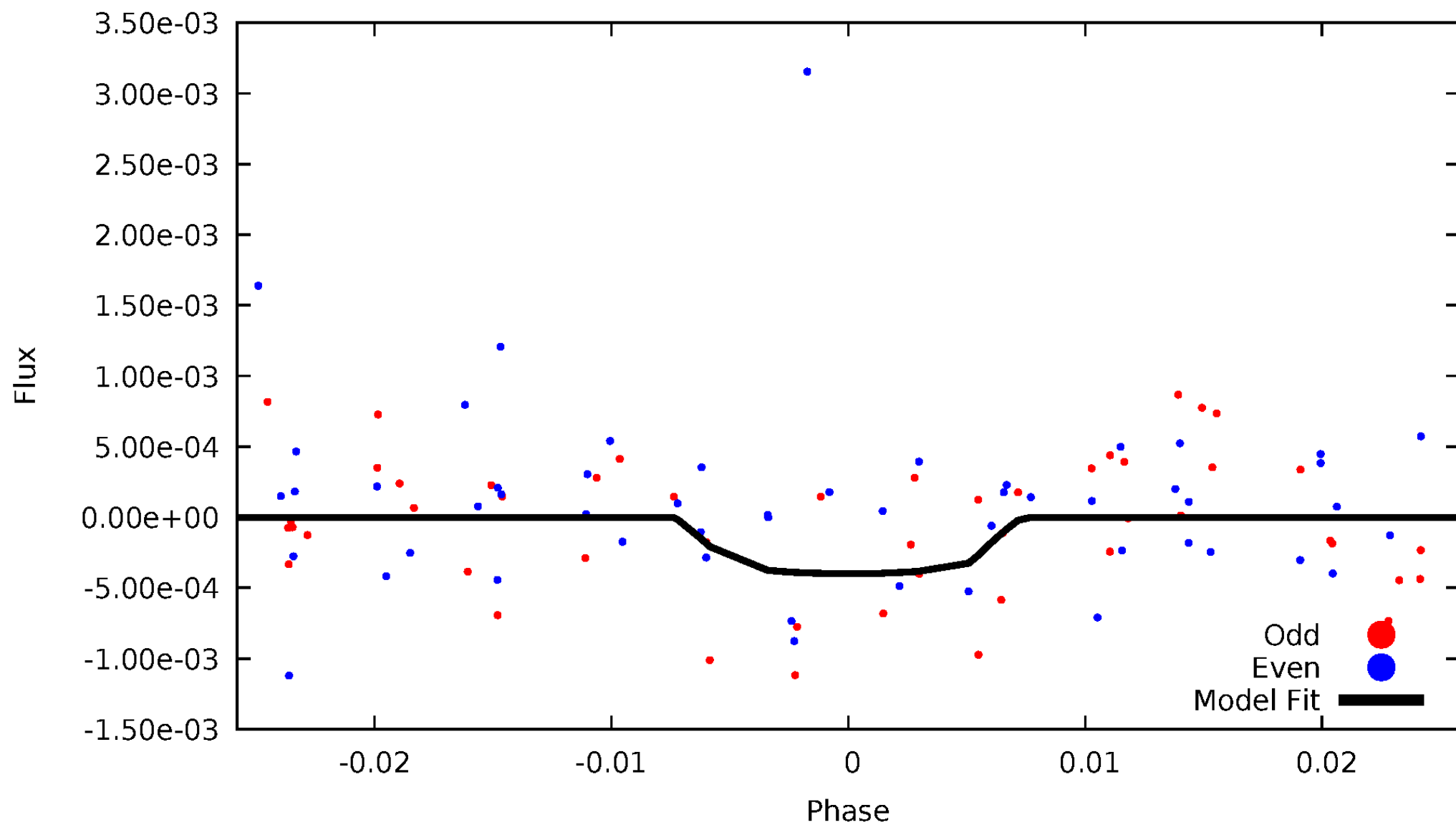


TCE 007287118-06



DV Odd/Even

TCE 007287118-06

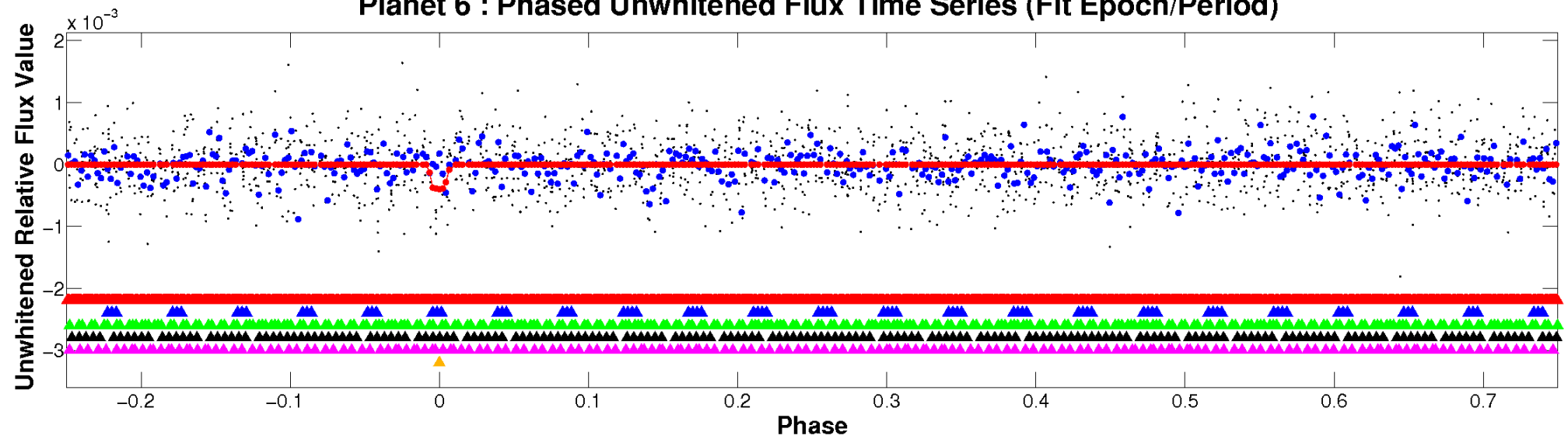


ALT Odd/Even

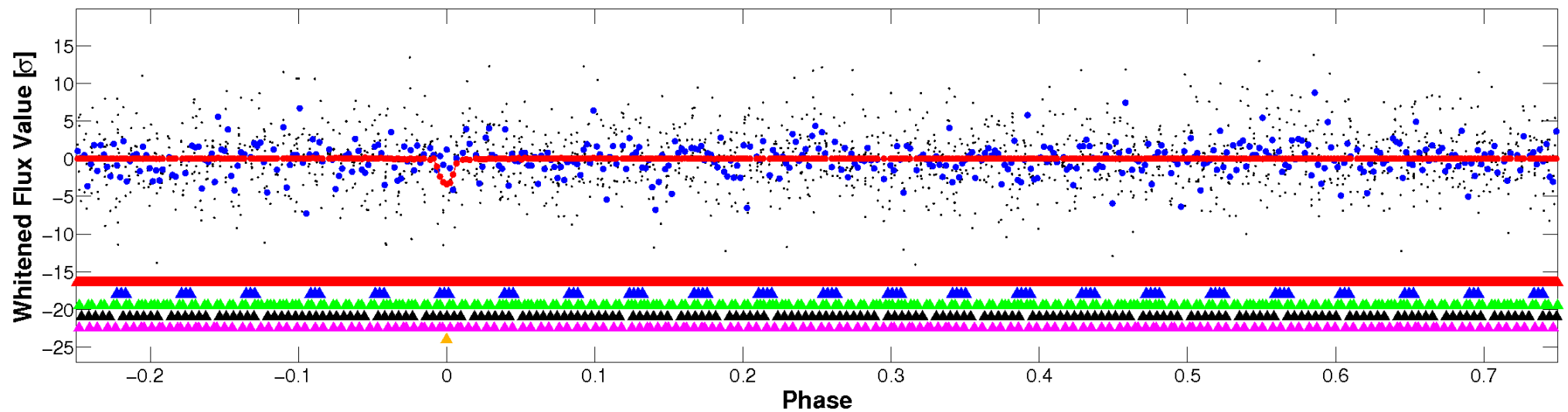
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

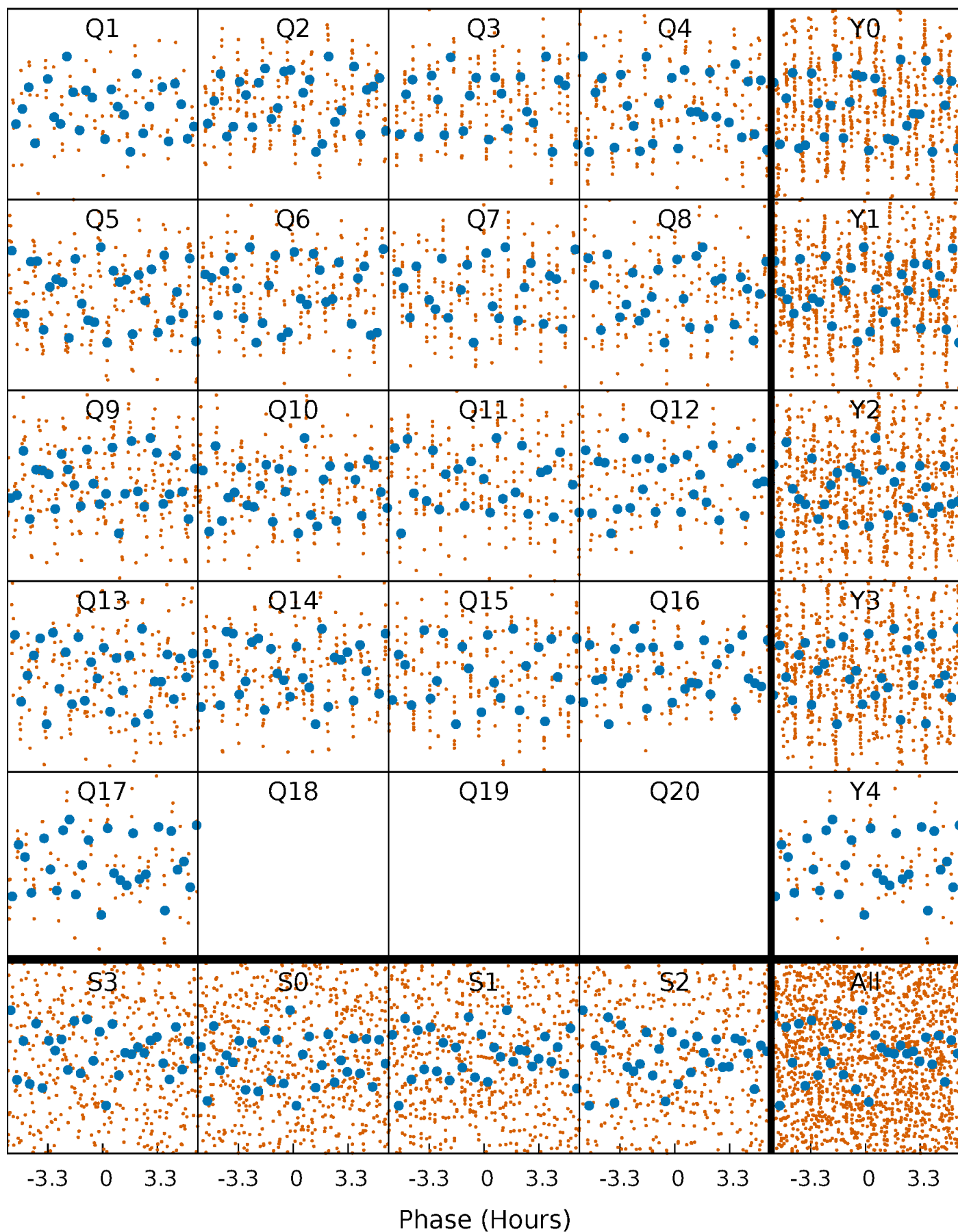


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



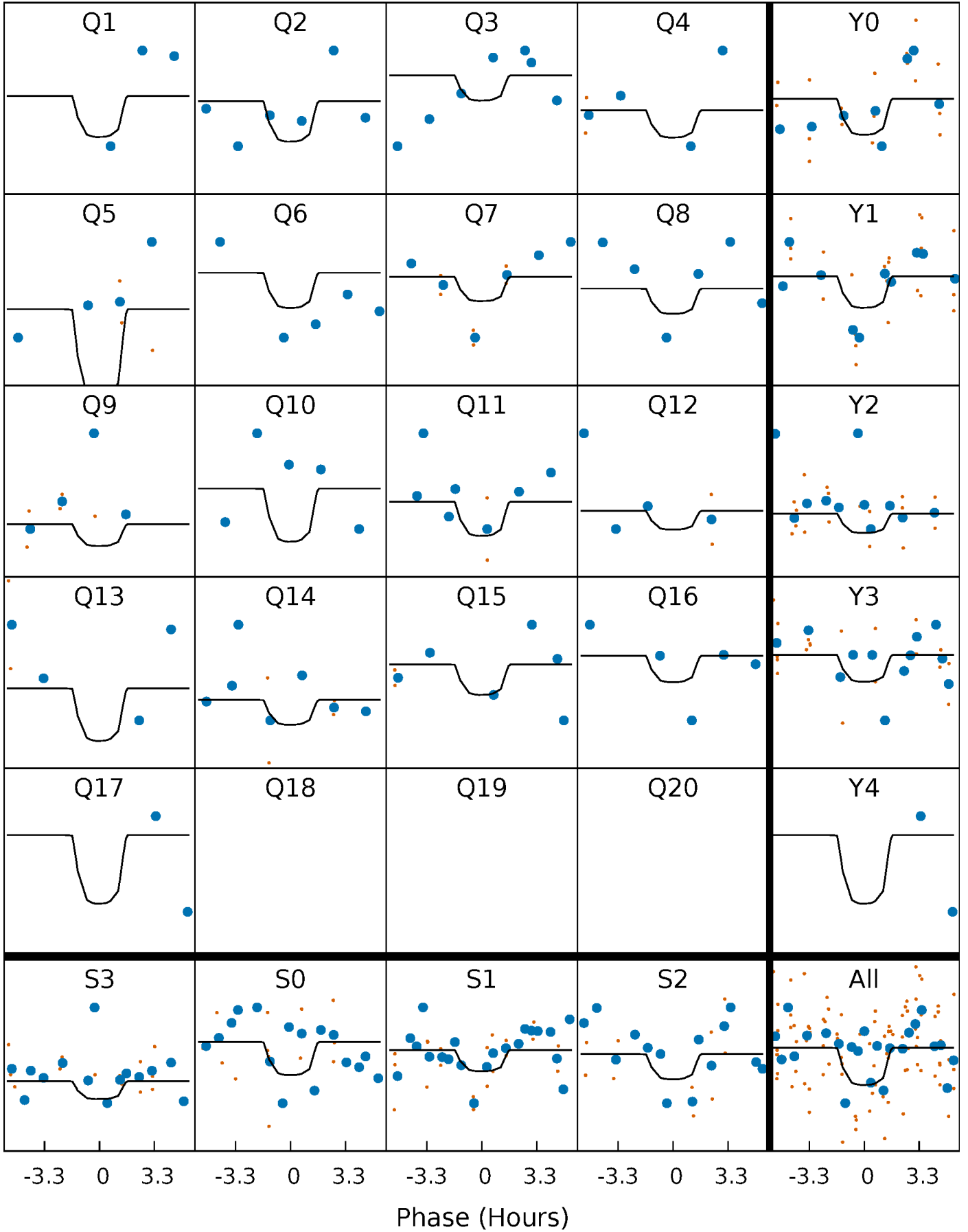
PDC Quarter-Phased Transit Curves

TCE 007287118-06 P= 9.276500 Days $T_0=133.453970$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007287118-06 P= 9.276500 Days $T_0=133.453970$ (BKJD)

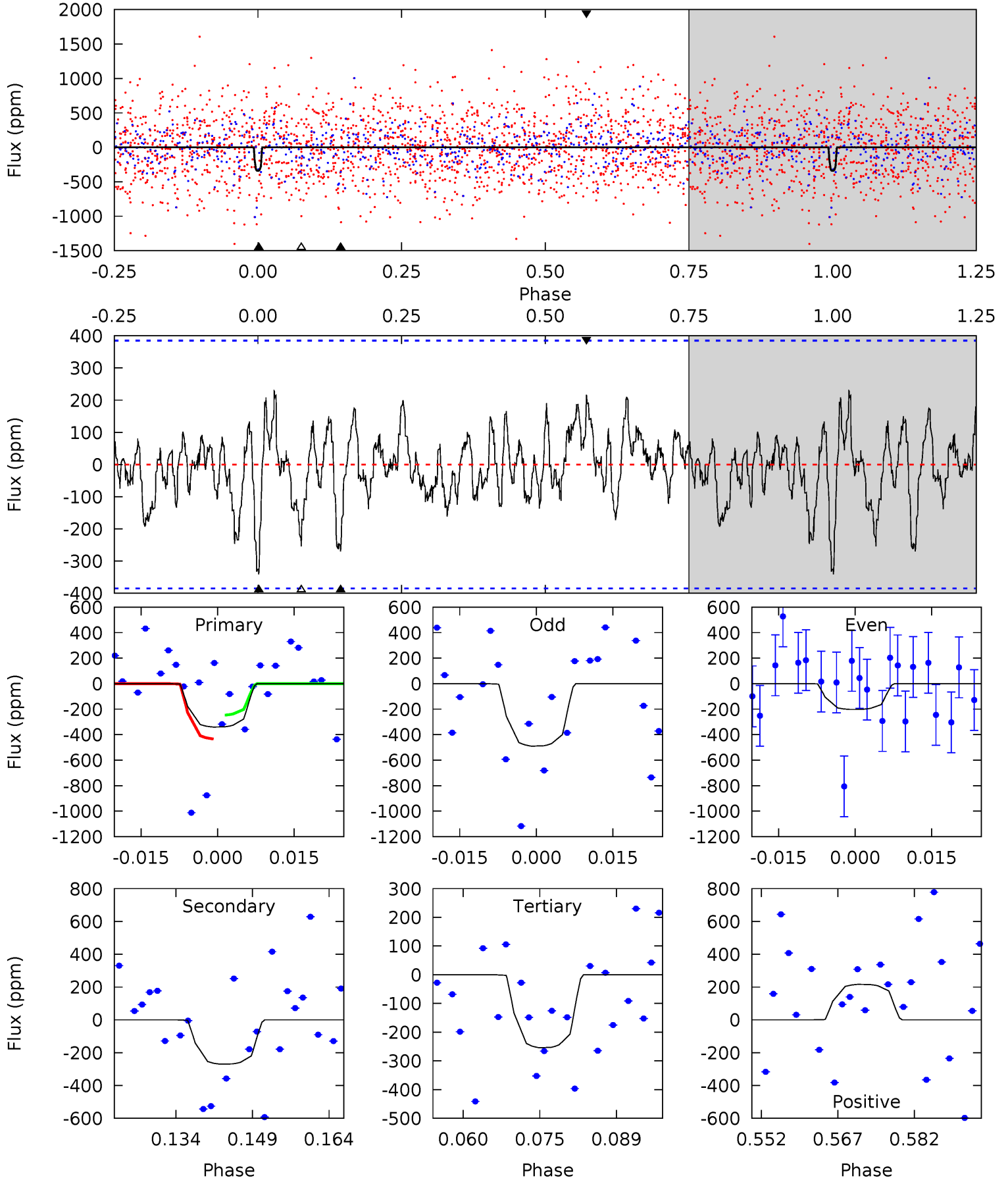


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007287118-06, P = 9.276500 Days, E = 124.177470 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.38	3.47	3.27	2.78	4.95	2.43	1.12	1.11	1.59	0.20	0.69	1.90	0	0.40	1.21



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007287118

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	8055^{+223}_{-335}	$3.714^{+0.420}_{-0.112}$	$0.000^{+0.200}_{-0.400}$	$3.320^{+0.839}_{-1.559}$	$2.081^{+0.322}_{-0.482}$	$0.080^{+0.333}_{-0.035}$
	+3%/-4%	+11%/-3%	+inf%/-inf%	+25%/-47%	+15%/-23%	+415%/-43%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007287118-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-270 ± 78	$13.53^{+14.79}_{-9.10}$	2638^{+204}_{-316}	4878^{+3941}_{-1200}	$9.361^{+74.378}_{-7.197}$
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

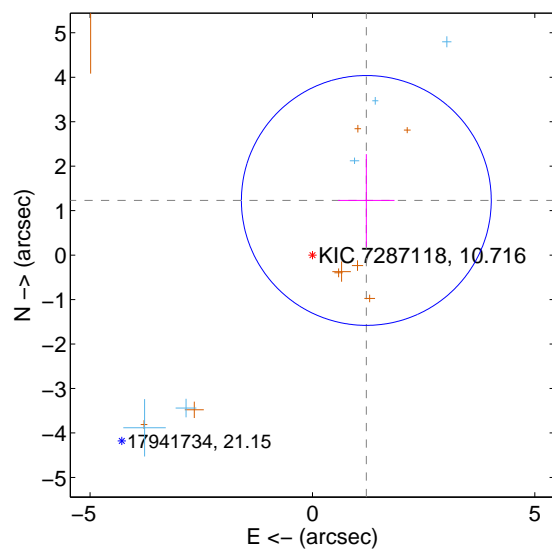
Supplemental centroid analysis for 007287118-06. **Kepler magnitude: 10.72.** Transit SNR 12.36

There are 5 quarters with good PRF difference image offsets

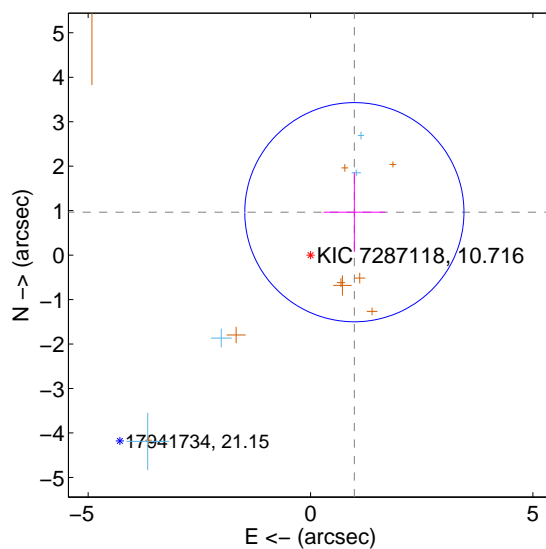
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.726 ± 0.937	1.84	-1.212 ± 0.635	1.229 ± 1.042
PRF-fit source offset from KIC position	1.380 ± 0.822	1.68	-0.986 ± 0.694	0.965 ± 0.895
photometric centroid source offset	0.58 ± 0.10	6.03	-0.34 ± 0.08	0.46 ± 0.10

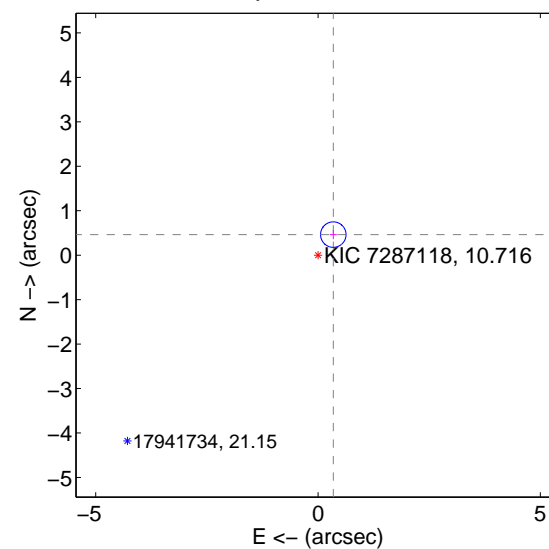
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

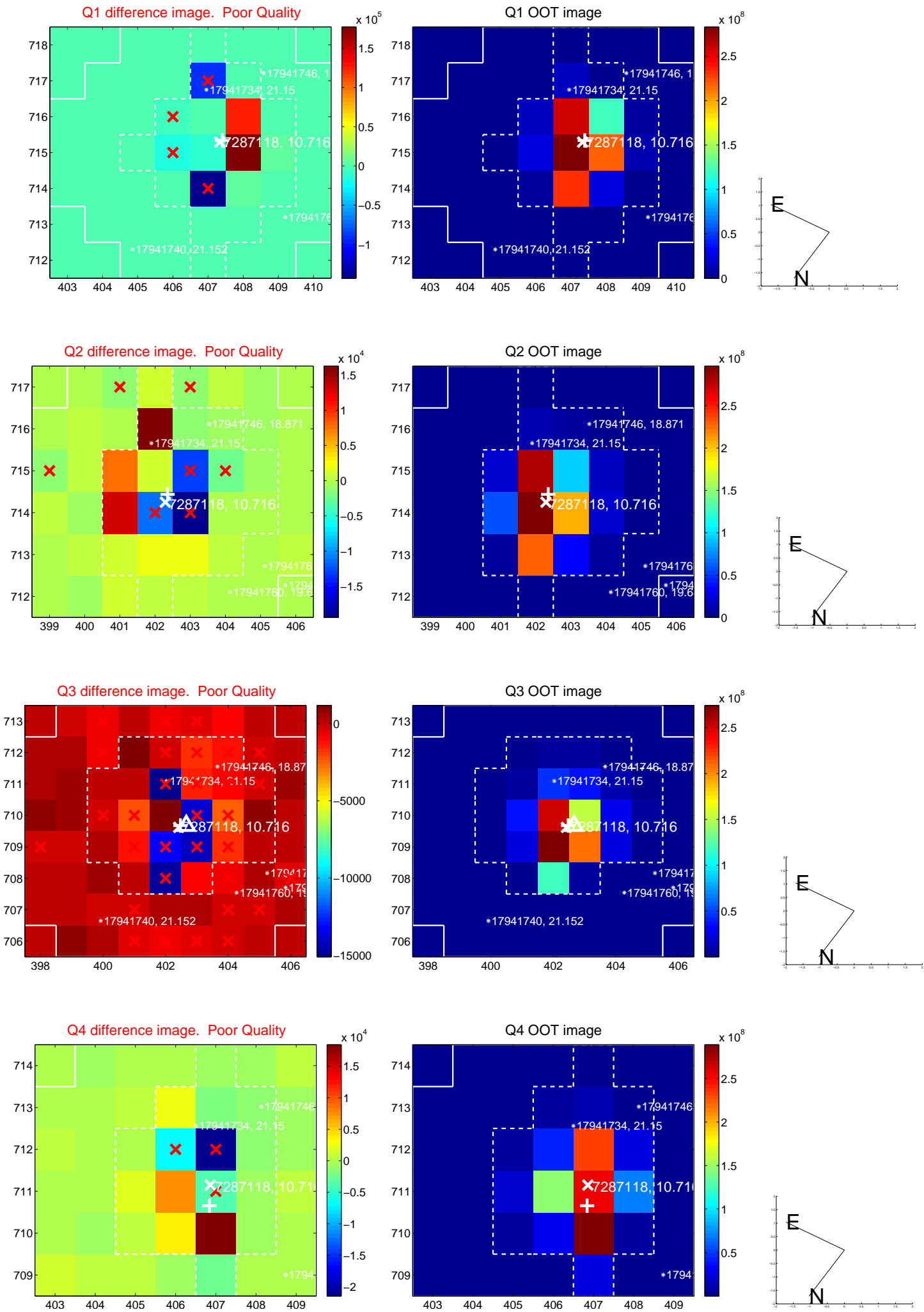


offset from photometric centroids

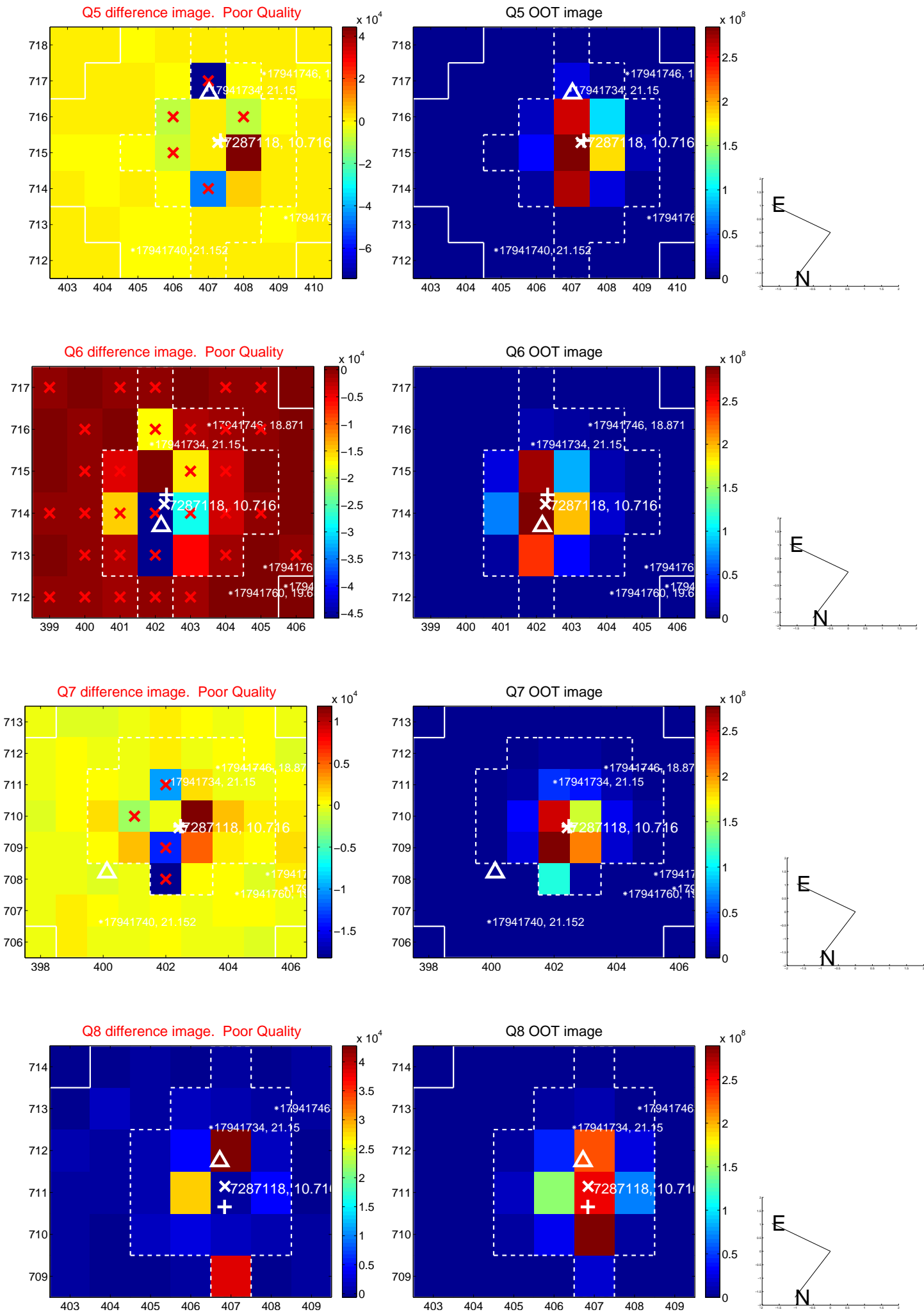


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

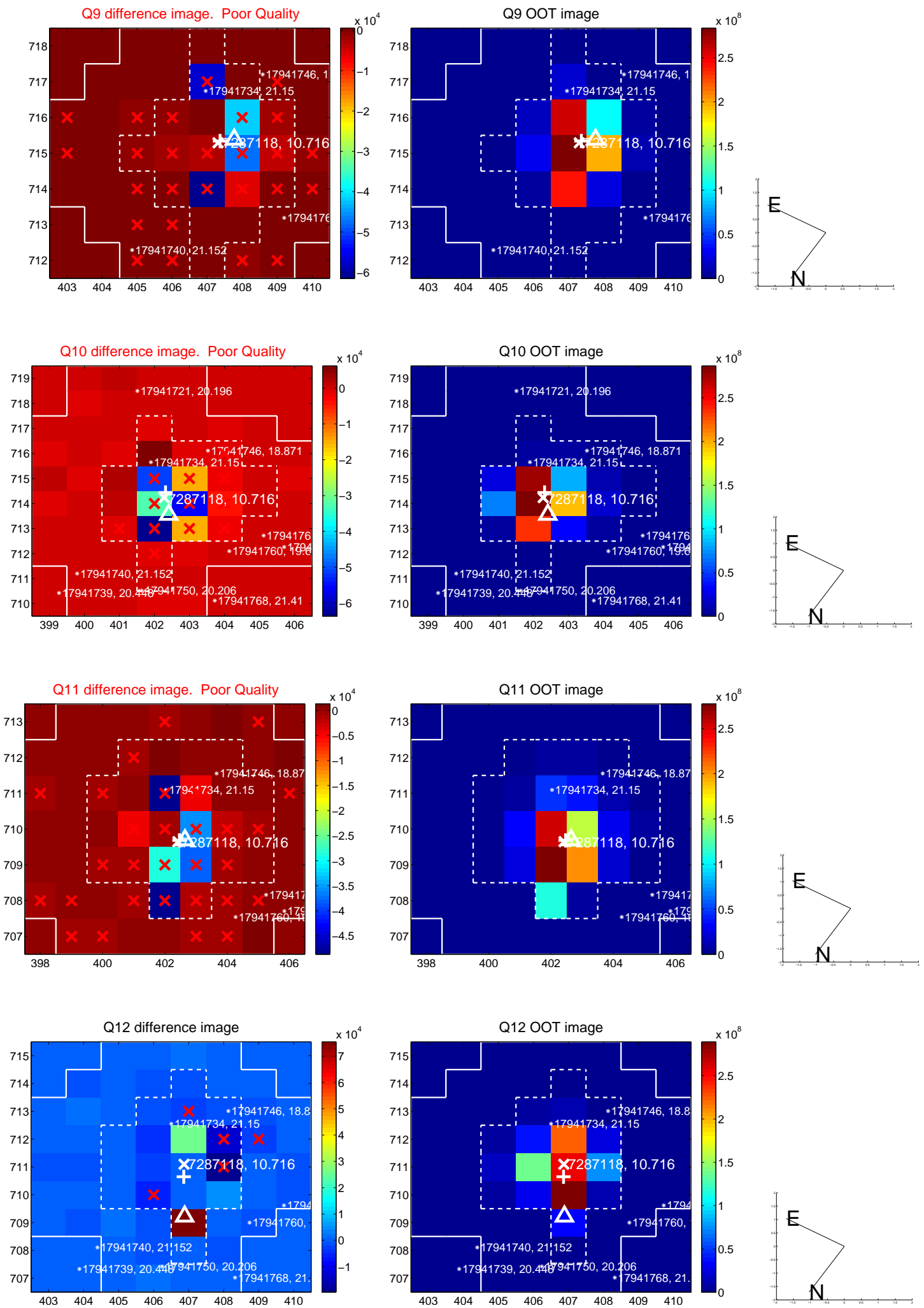
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



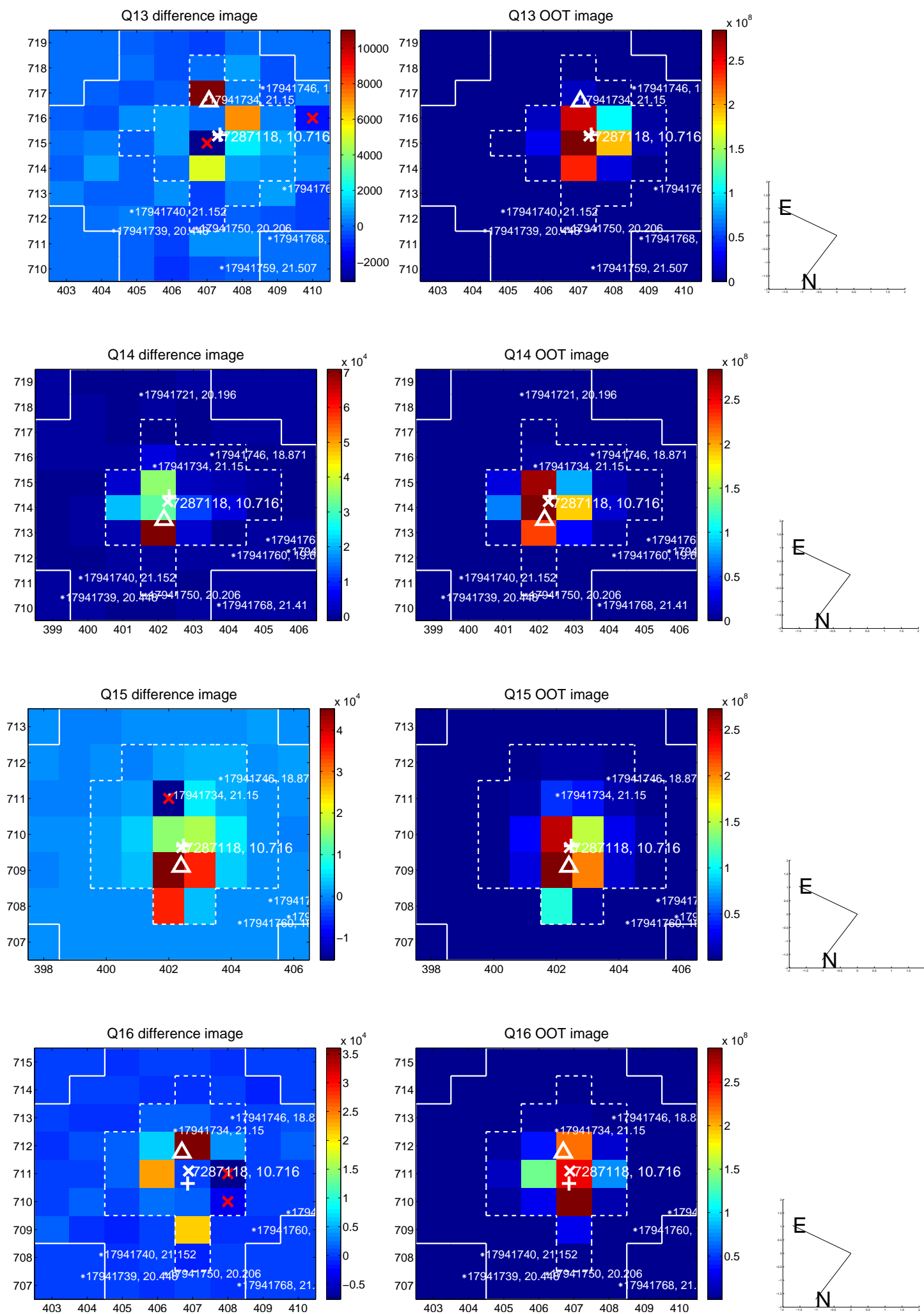
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



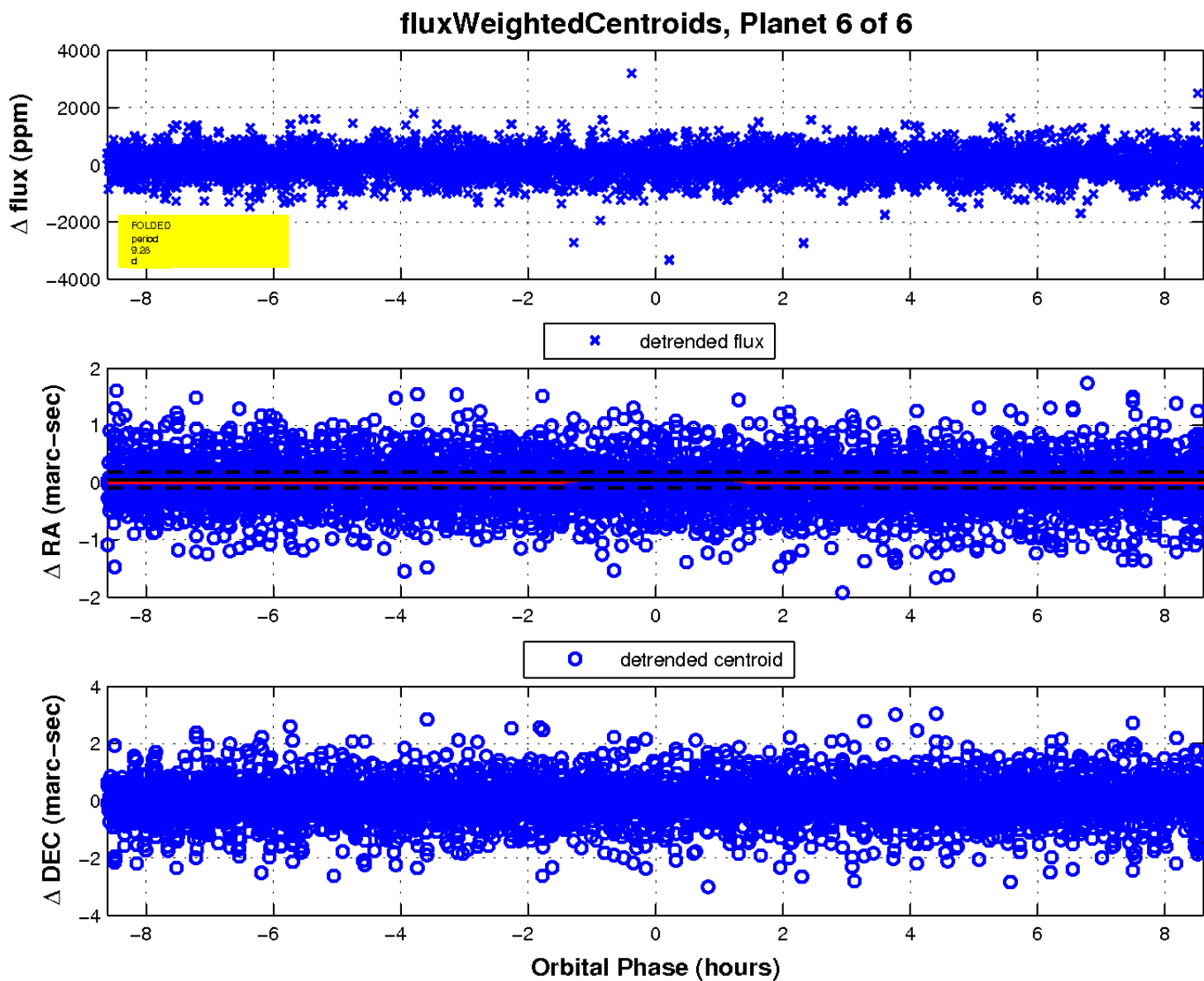
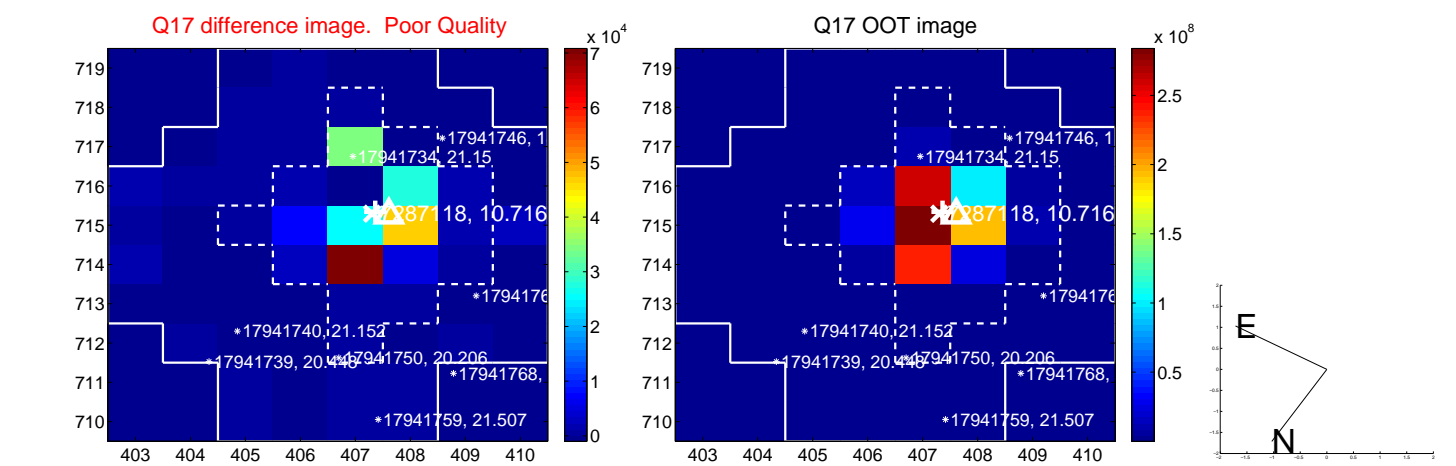
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

