

KIC 003448132

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})
003448132-01	OBS	No	0.513509	131.724709	27.9	3.220	8.5	8.6	1.02	6240	0.56	8540.54
003448132-02	OBS	No	33.367170	149.706268	109.6	2.336	10.6	1.3	1.02	6240	1.26	32.69
003448132-03	OBS	No	66.705051	186.401782	979.1	2.559	8.1	6.6	1.02	6240	3.32	12.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003448132-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_KIC_POS—HALO_GHOST—EPHEM_MATCH
003448132-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
003448132-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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.

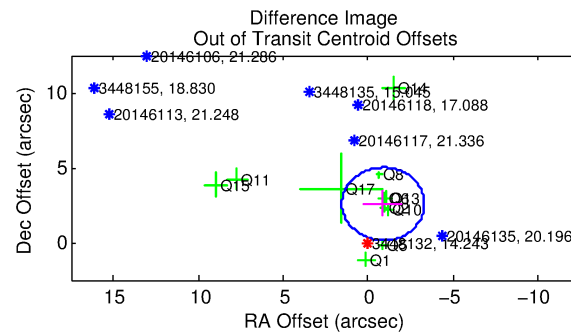
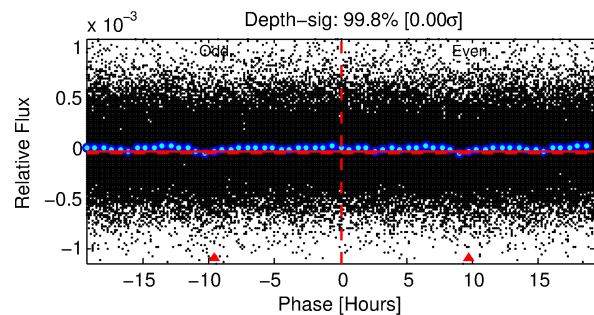
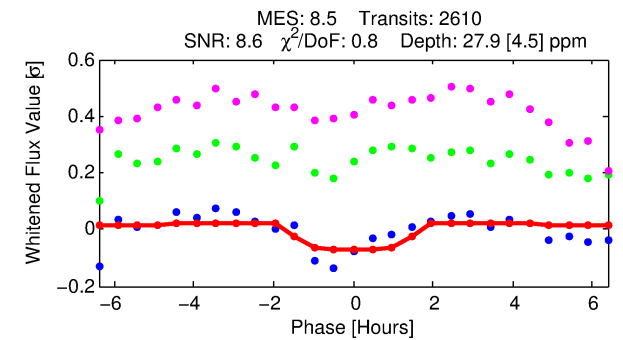
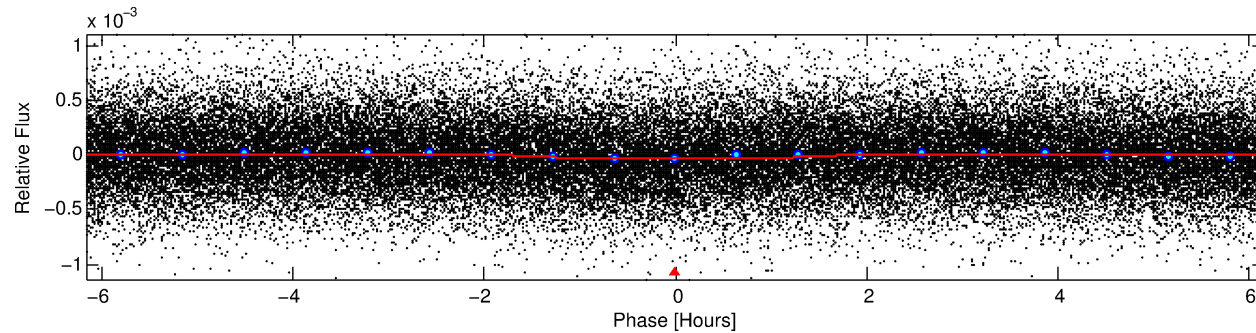
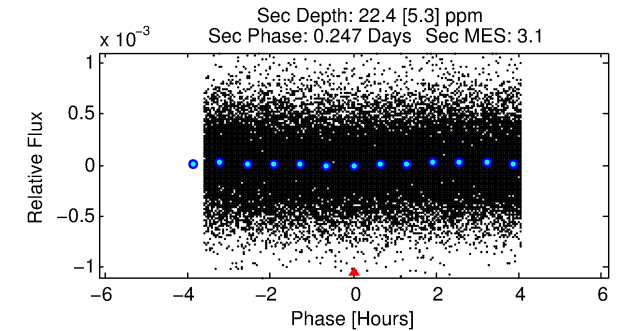
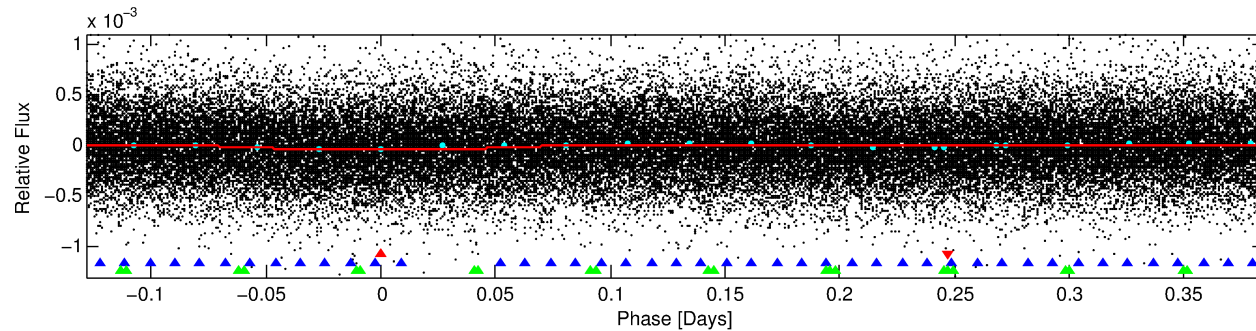
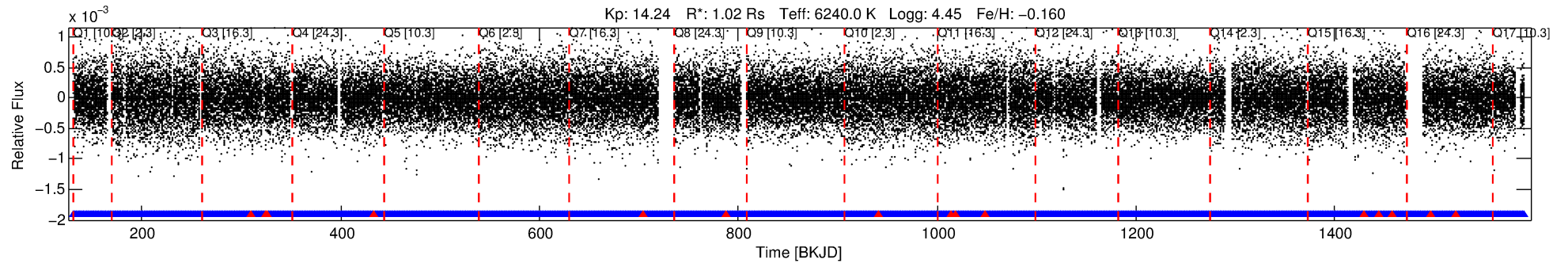
Ephemeris Match Information For 003448132-01

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist (μ)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
003448132-01	3448132	003448245-pri	3448245	1:1	86.5	11	20	11.86	14.24	11811.00	Direct-PRF	0	4.46	1.10

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 3448132 Candidate: 1 of 3 Period: 0.514 d



DV Fit Results:

Period = 0.51351 [0.00001] d
Epoch = 131.7247 [0.0038] BKJD
Rp/R* = 0.0050 [0.0036]
a/R* = 1.29 [1.88]
b = 0.52 [5.27]
Seff = 8540.54 [3388.90]
Teff = 2451 [243] K
Rp = 0.56 [0.44] Re
a = 0.0129 [0.0033] AU
Ag = 6.59 [10.05] [0.56σ]
Teffp = 6073 [2255] K [1.60σ]

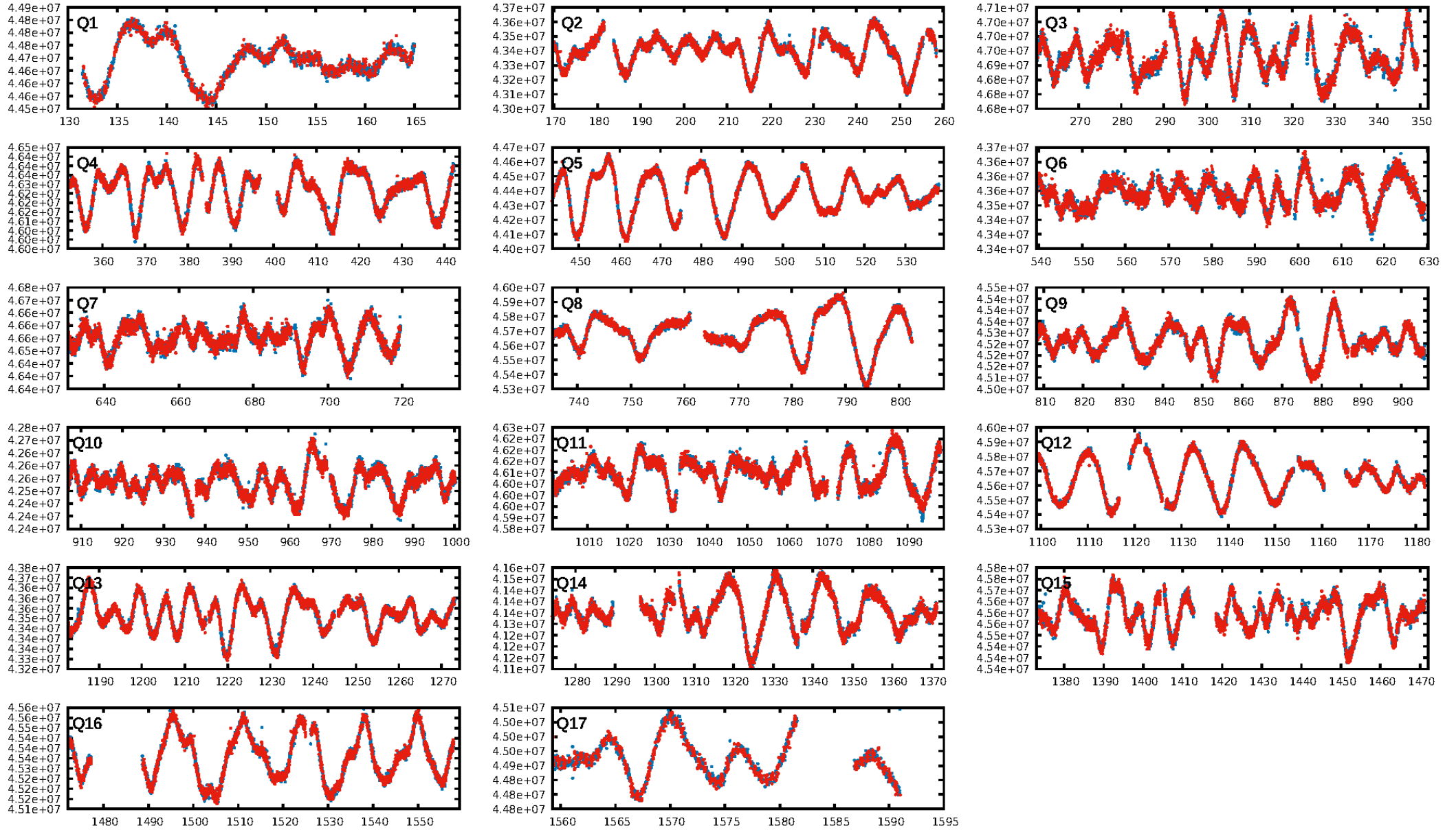
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [198.18σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 7.45e-17
RollingBand-fgt: 0.99 [2478/2493]
GhostDiagnostic-chr: -0.0428
Centroid-sig: N/A
Centroid-so: 1.795 arcsec [2.68σ]
OotOffset-rm: 2.726 arcsec [3.36σ]
OotOffset-st: 4/2/1/4 [11]
KicOffset-rm: 2.213 arcsec [2.05σ]
KicOffset-st: 4/2/1/4 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 1.00 [17/17]

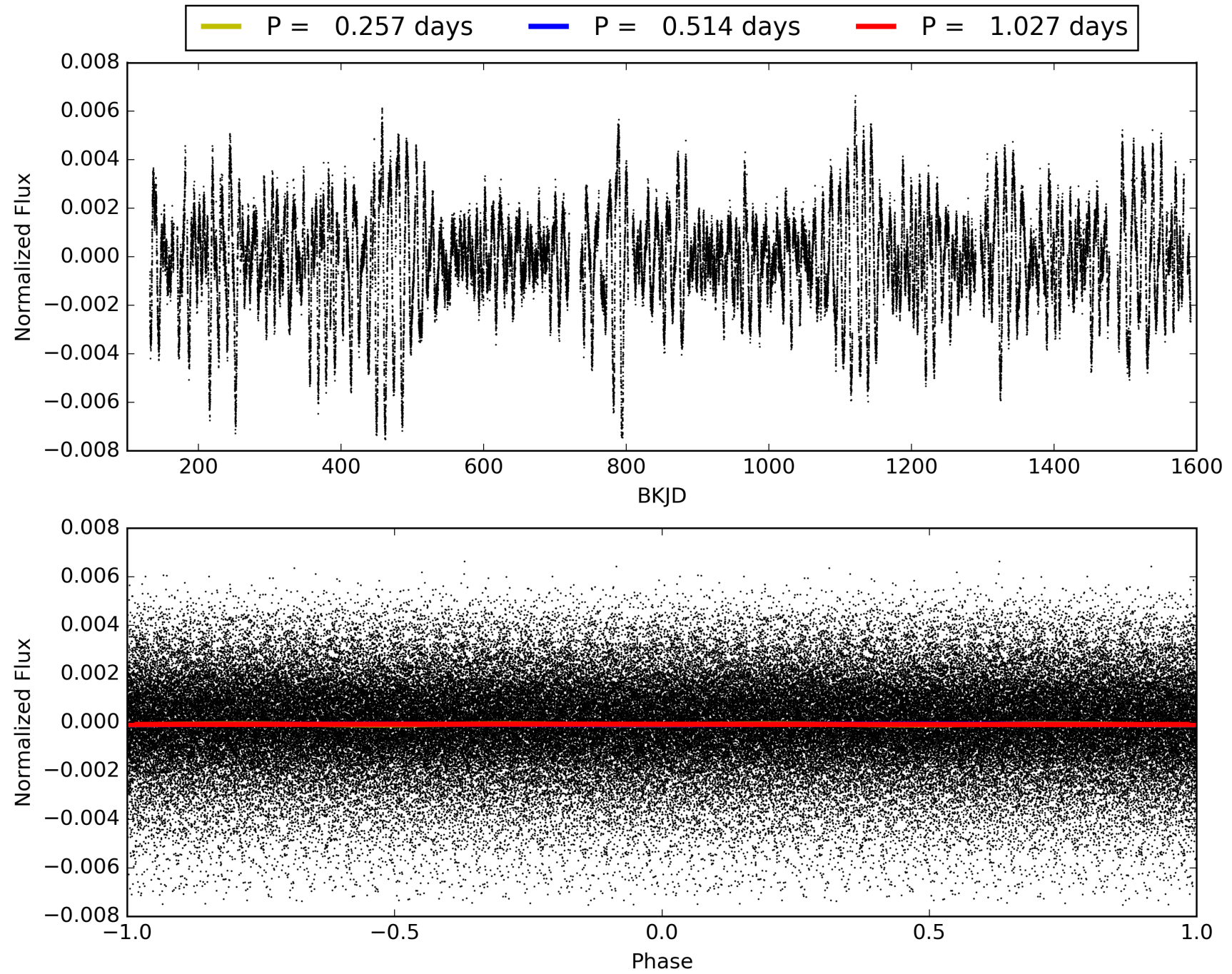
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:29:13 Z

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

TCE 003448132-01, PDC Light Curves

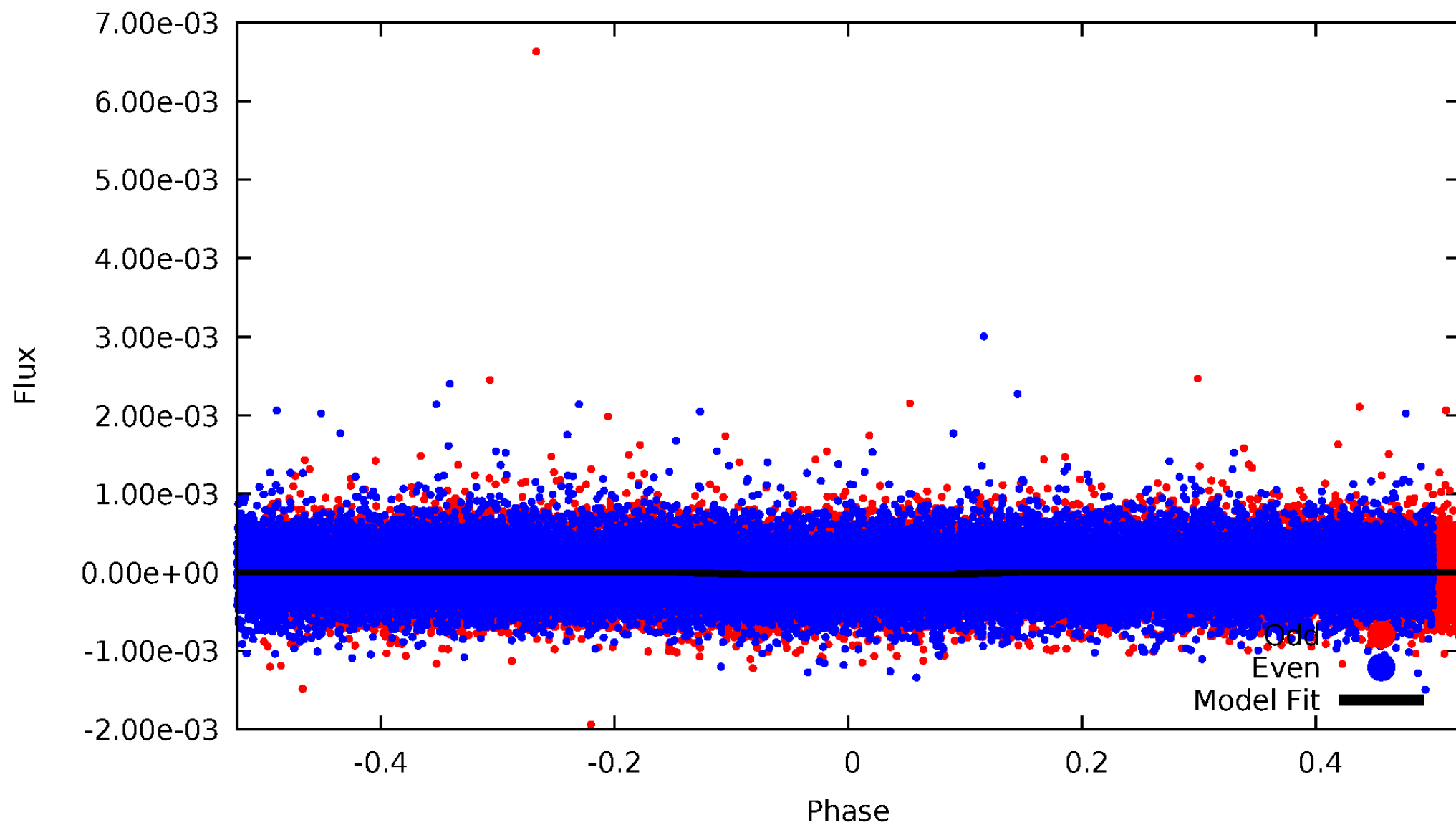


TCE 003448132-01



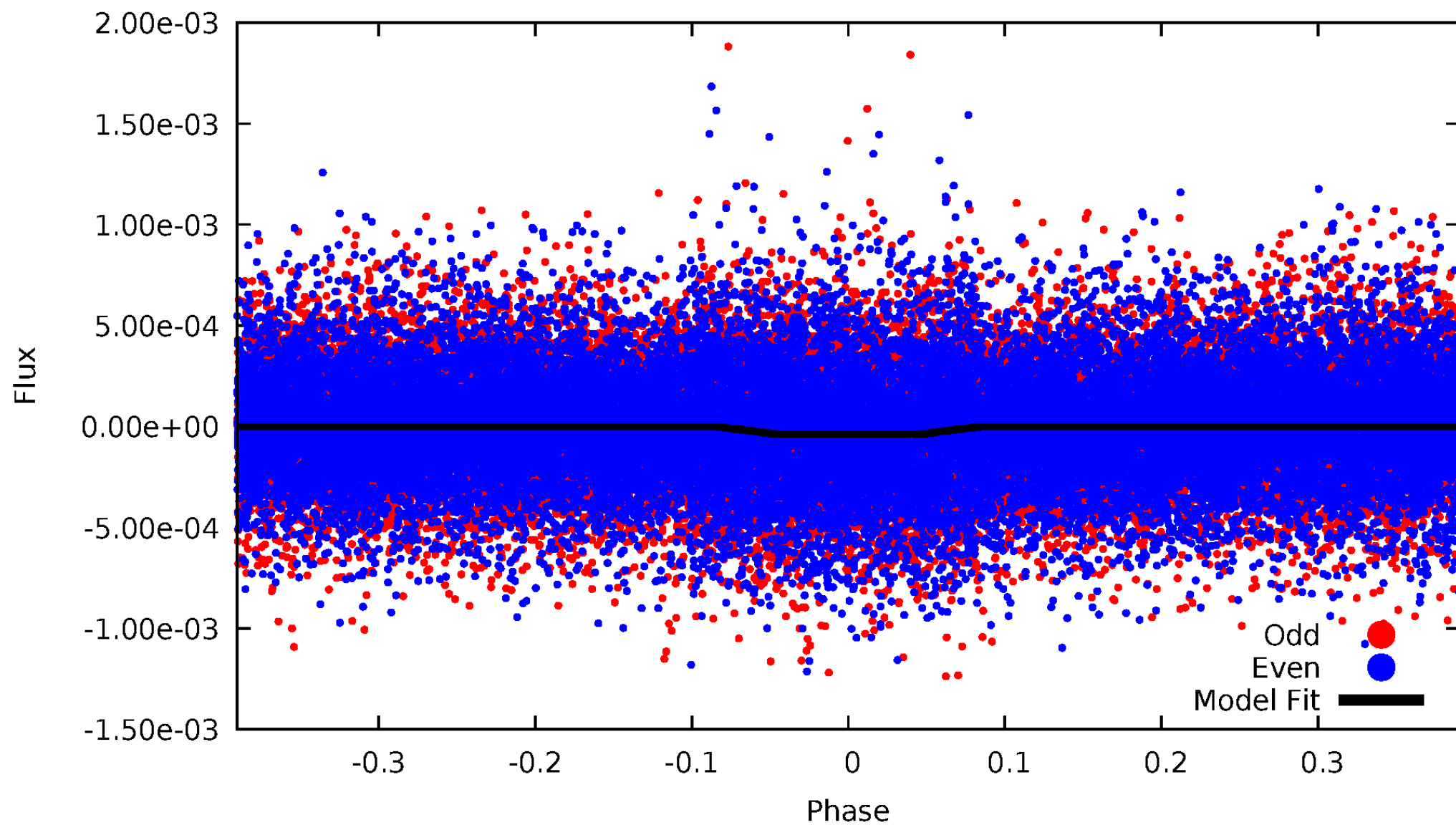
DV Odd/Even

TCE 003448132-01



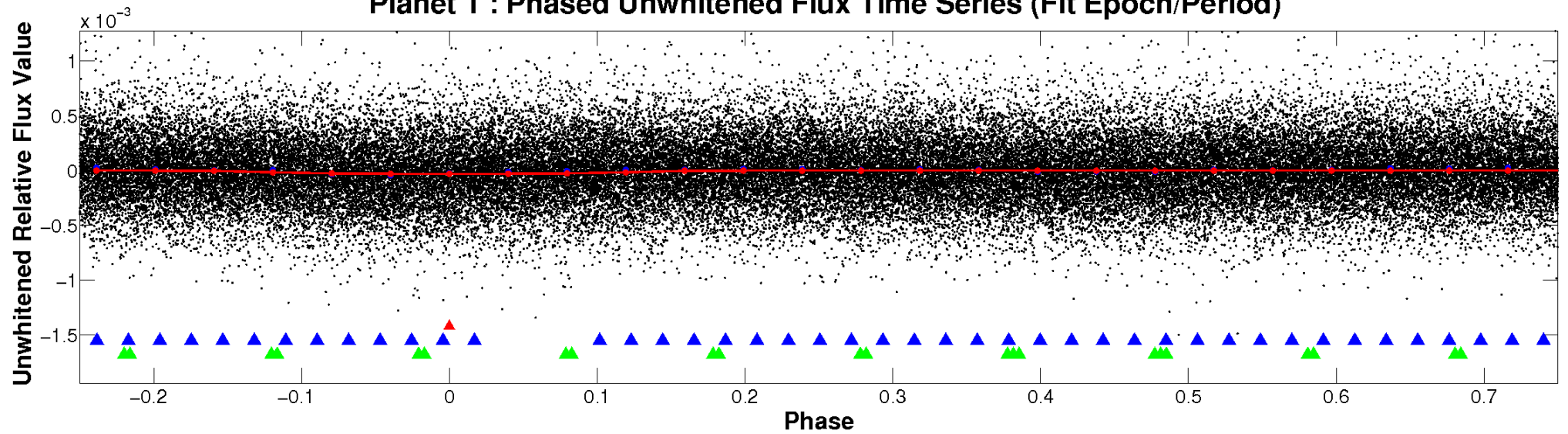
ALT Odd/Even

TCE 003448132-01

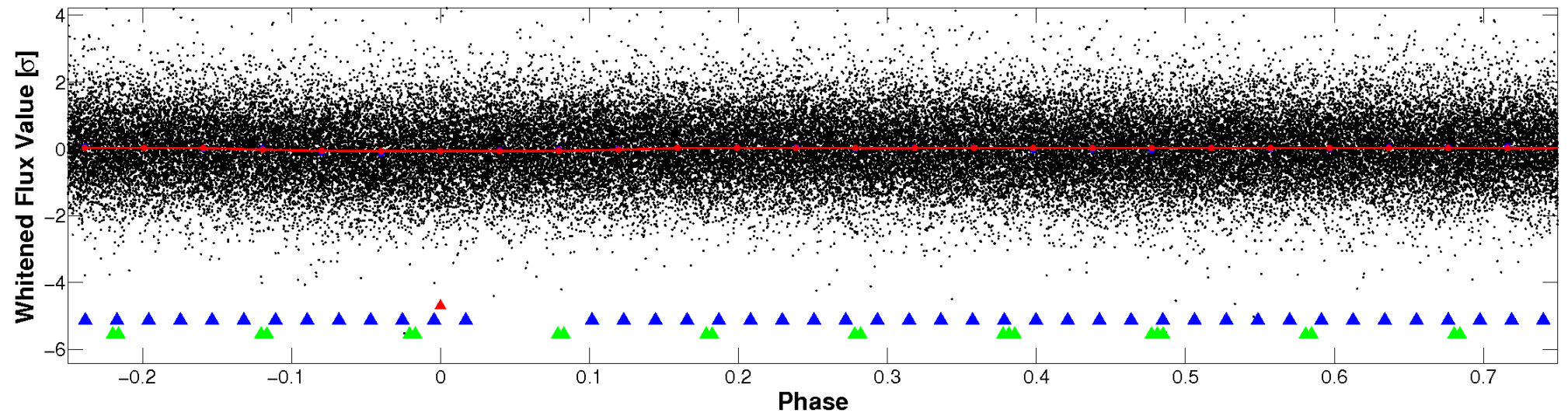


Non-Whitened Vs. Whitened Light Curve

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

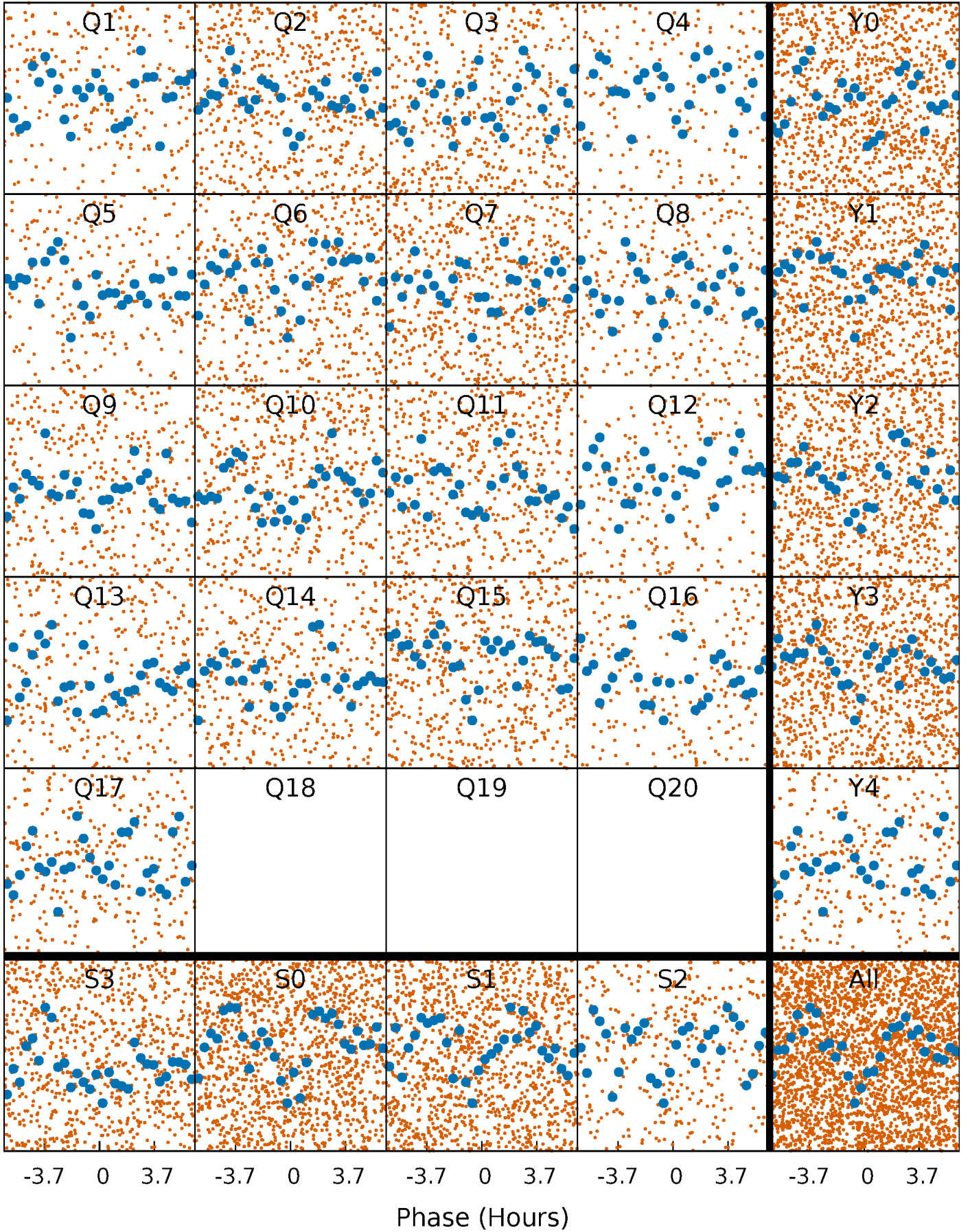


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



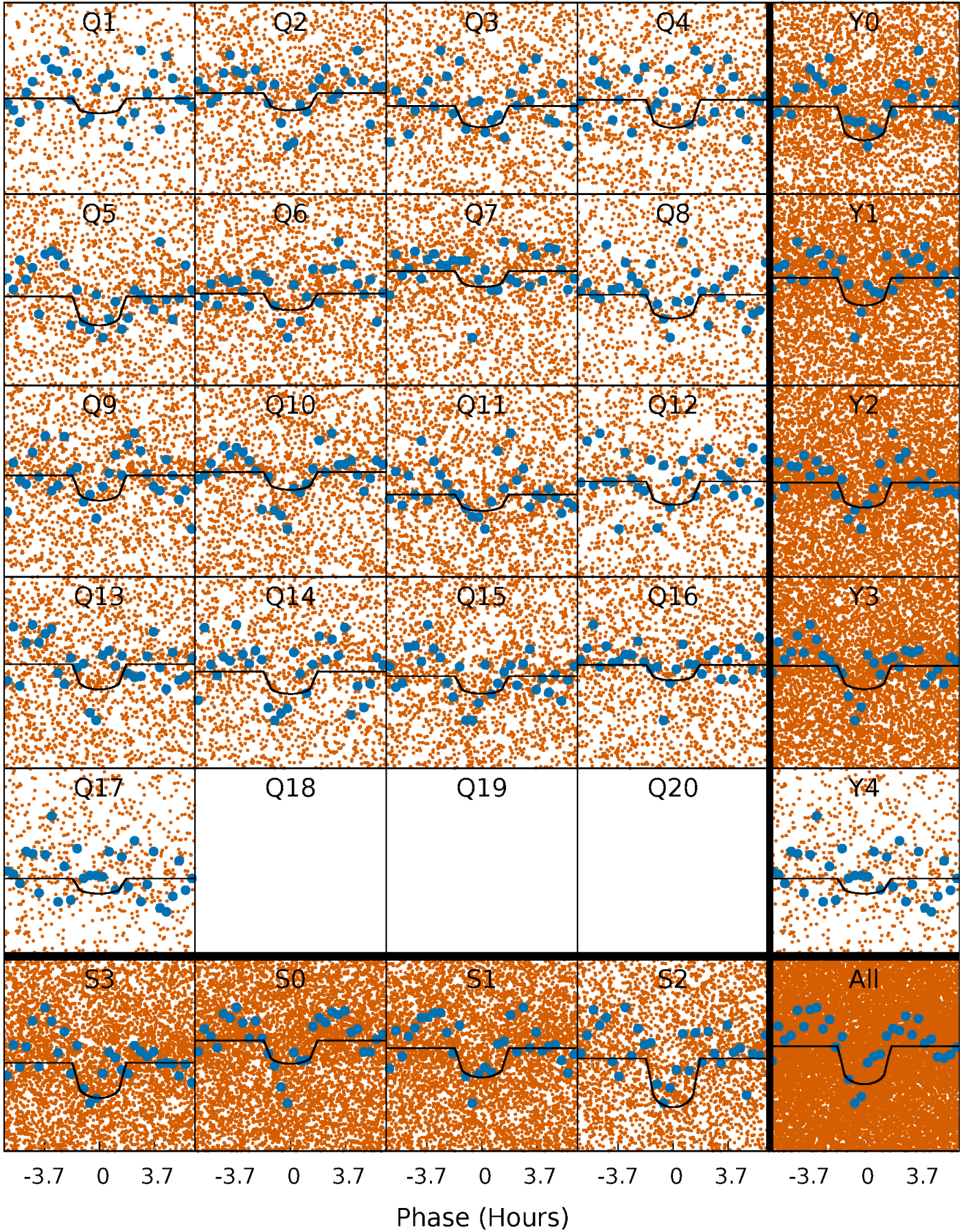
PDC Quarter-Phased Transit Curves

TCE 003448132-01 P= 0.513509 Days $T_0=131.724709$ (BKJD)



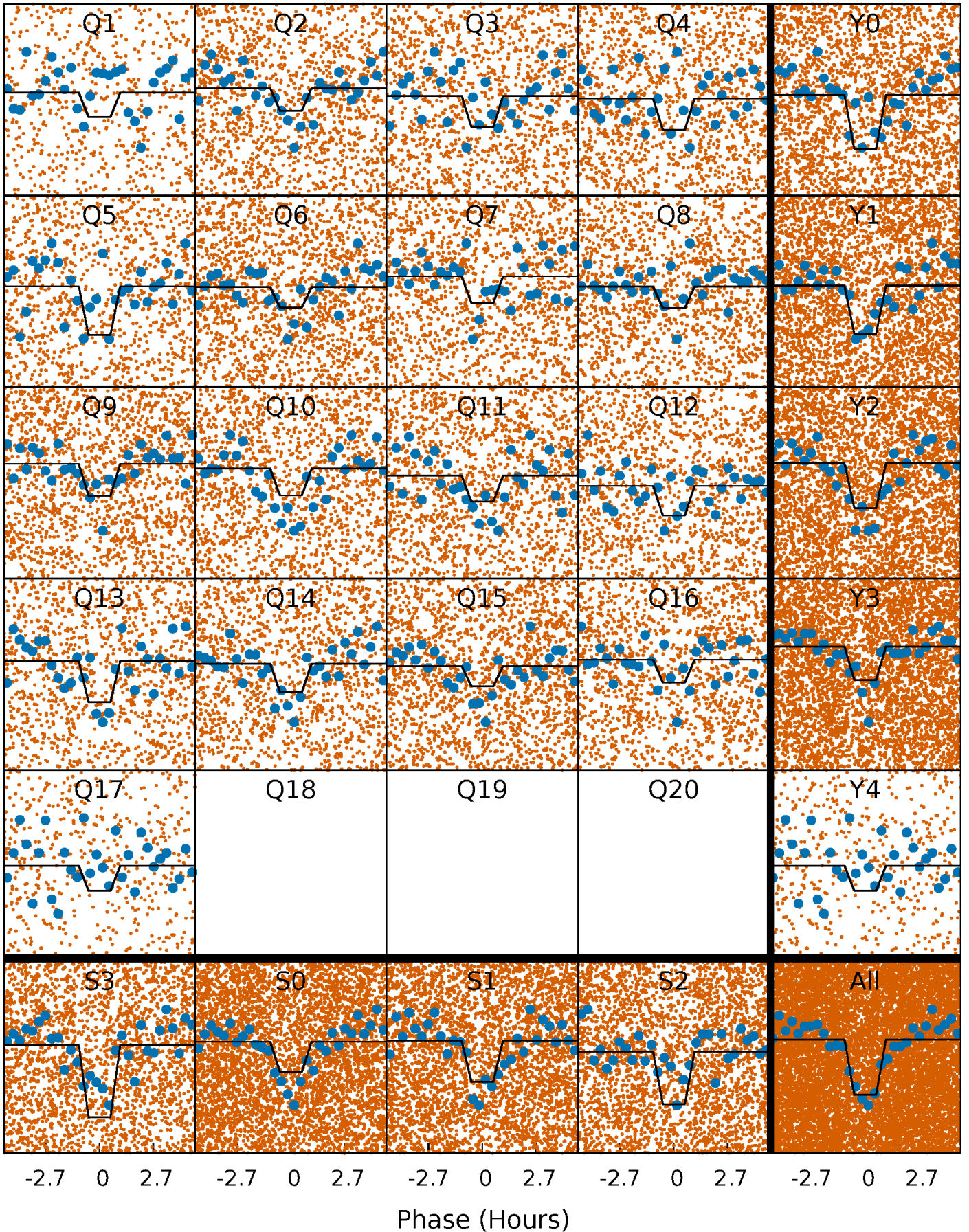
DV Quarter-Phased Transit Curves

TCE 003448132-01 P= 0.513509 Days $T_0=131.724709$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

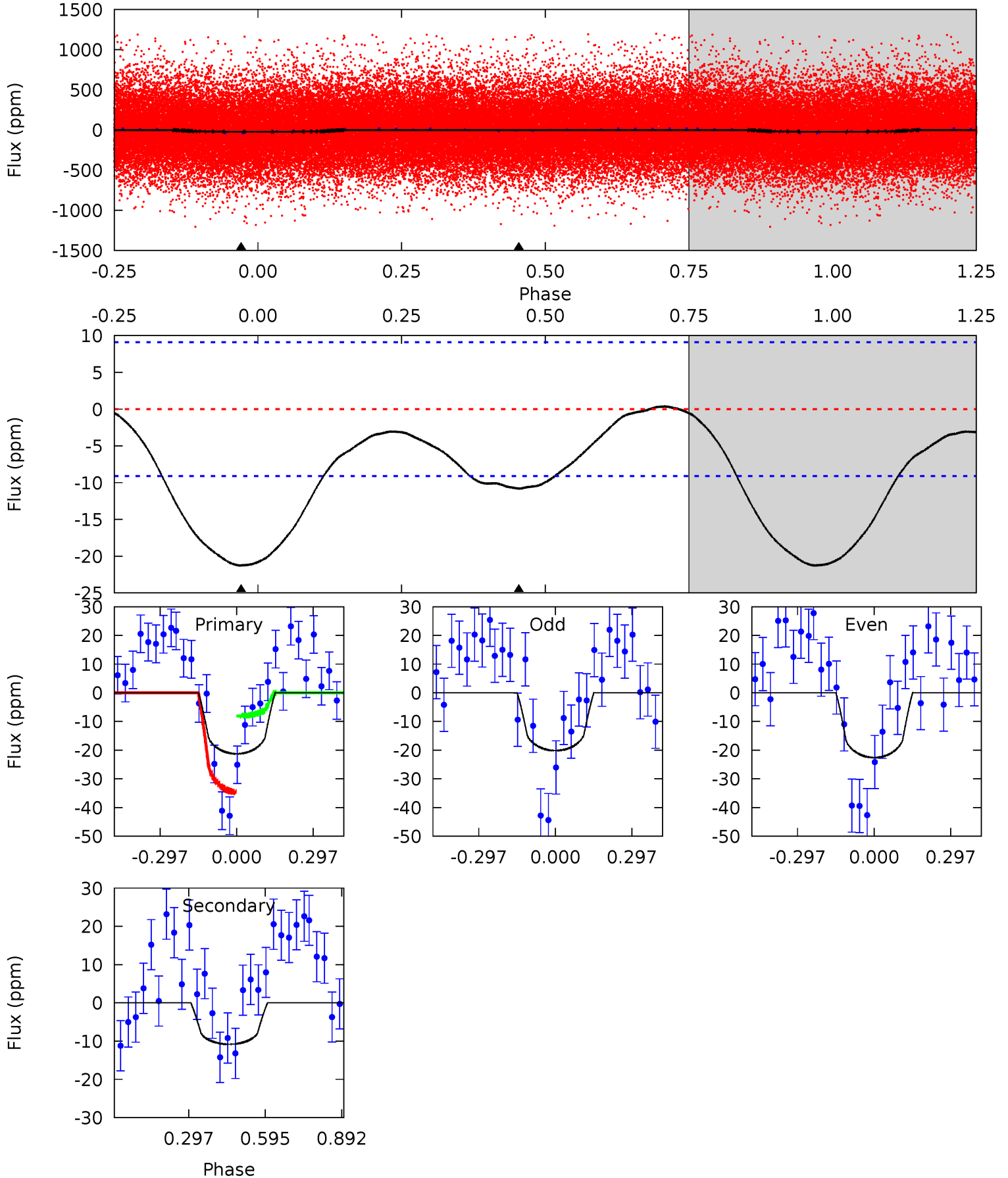
TCE 003448132-01 P= 0.513499 Days $T_0=131.721929$ (BKJD)



DV Model-Shift Uniqueness Test

003448132-01, P = 0.513509 Days, E = 131.211200 Days

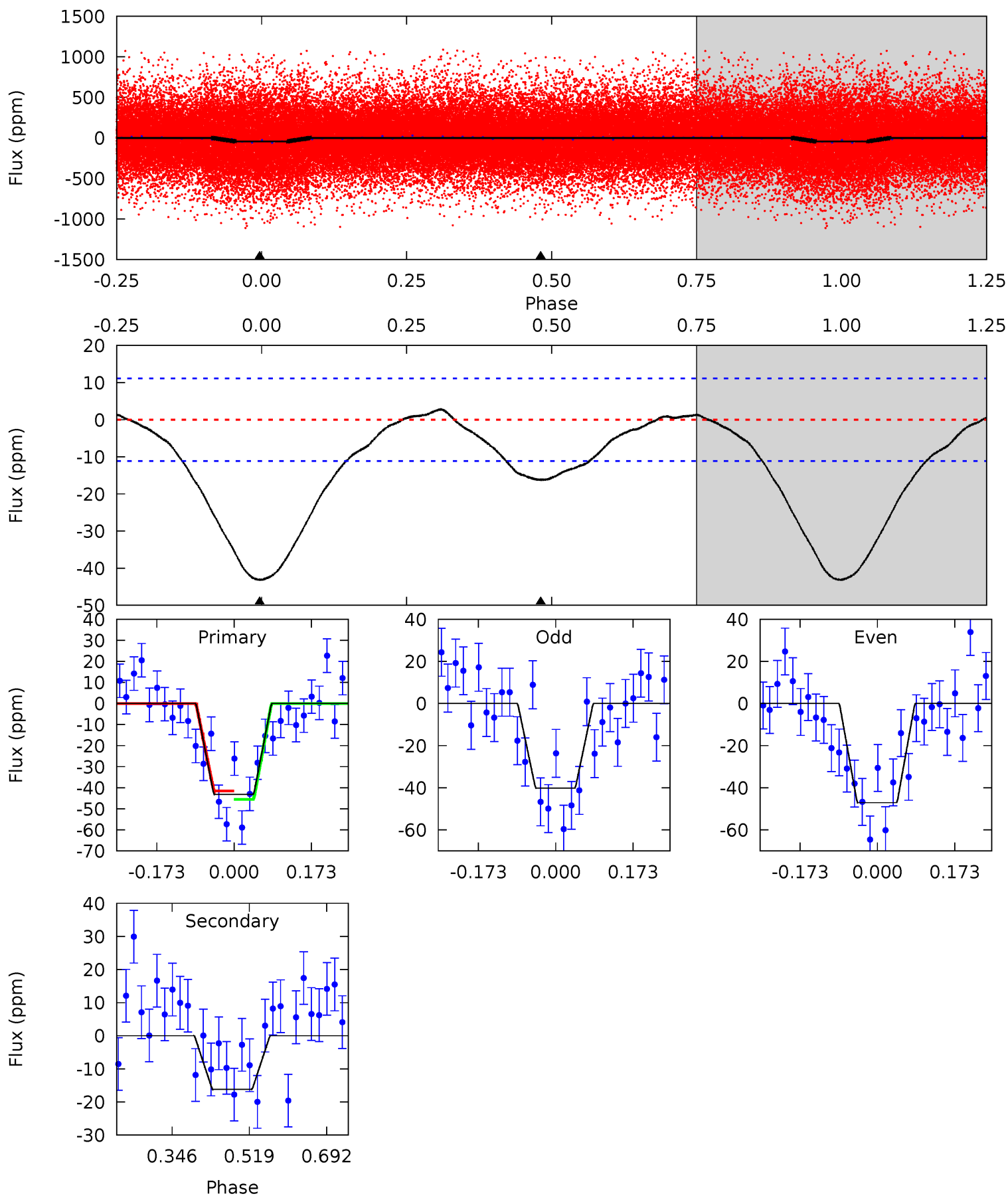
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	5.15	0	0	4.33	1.04	0.79	10.1	10.1	5.15	5.15	0.58	1.13	0.02	6.20



Alt Model-Shift Uniqueness Test

003448132-01, P = 0.513499 Days, E = 131.208430 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.3	6.49	0	0	4.45	1.36	0.98	17.3	17.3	6.49	6.49	1.39	0.98	0.06	0.80



Stellar Parameters For KIC 003448132

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6240^{+175}_{-219}	$4.454^{+0.050}_{-0.200}$	$-0.160^{+0.250}_{-0.350}$	$1.023^{+0.320}_{-0.107}$	$1.081^{+0.144}_{-0.144}$	$1.423^{+0.390}_{-0.736}$
	+3%/-4%	+1%/-4%	+156%/-219%	+31%/-10%	+13%/-13%	+27%/-52%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003448132-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-11 ± 2	$0.62^{+0.42}_{-0.37}$	3490^{+240}_{-170}	4855^{+3011}_{-1091}	$2.567^{+12.962}_{-1.688}$
Alt.	-16 ± 3	$0.77^{+0.48}_{-0.38}$	3492^{+245}_{-177}	4804^{+1977}_{-949}	$2.448^{+7.037}_{-1.533}$

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

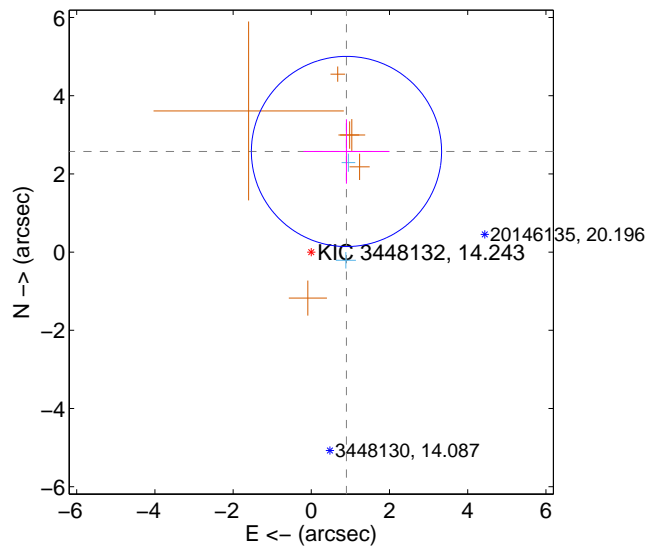
Supplemental centroid analysis for 003448132-01. Kepler magnitude: 14.24. Transit SNR 8.61

There are 2 quarters with good PRF difference image offsets

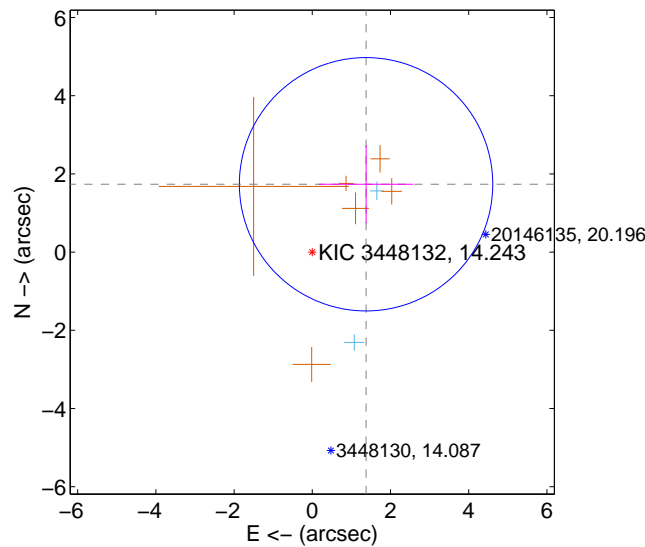
The direct PRF centroid is offset from the target star catalog position by about 1.93 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.726 ± 0.811	3.36	-0.899 ± 1.099	2.573 ± 0.823
PRF-fit source offset from KIC position	2.213 ± 1.080	2.05	-1.374 ± 1.204	1.735 ± 0.997
photometric centroid source offset	1.79 ± 0.67	2.68	1.33 ± 0.56	1.20 ± 0.79

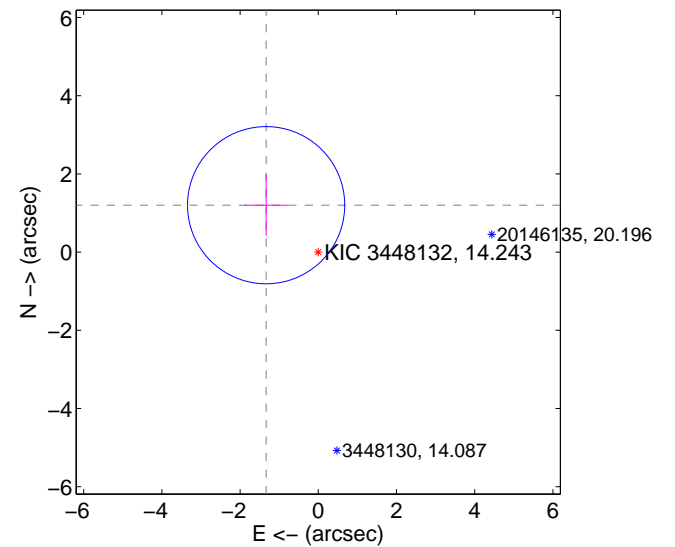
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

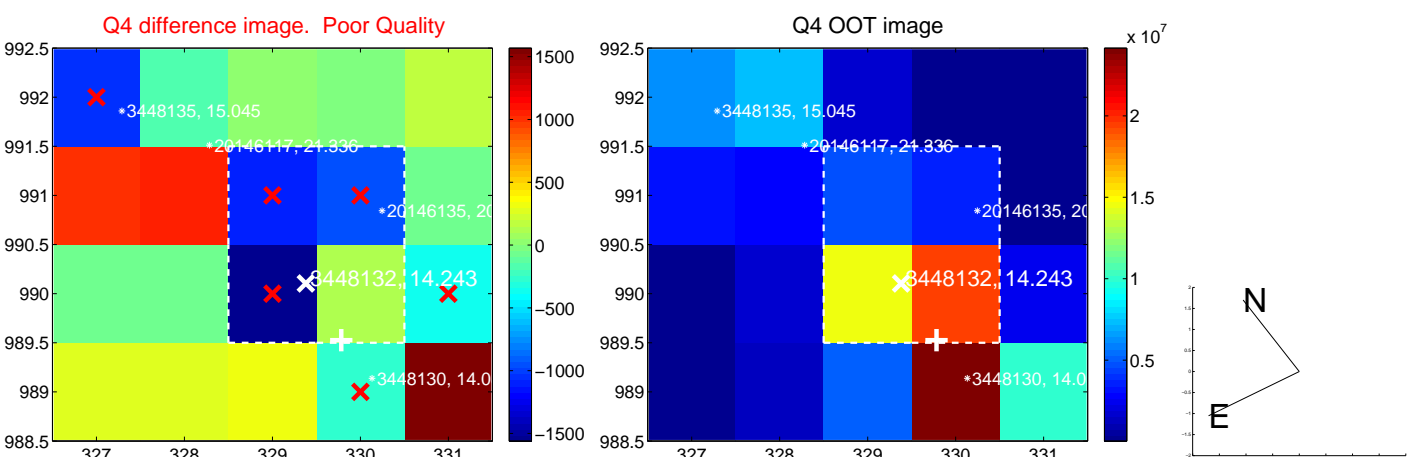
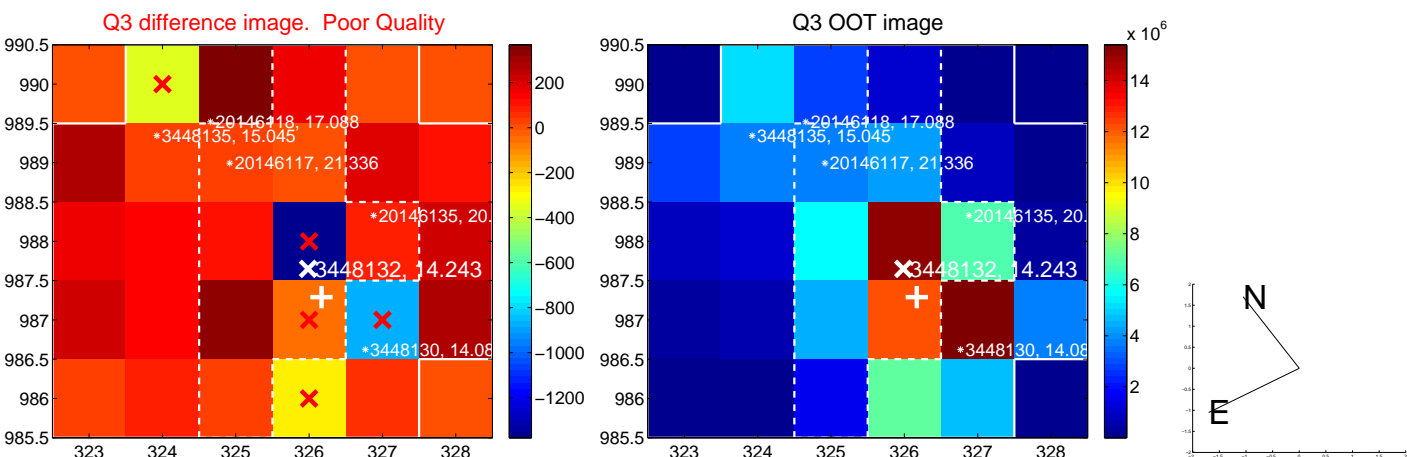
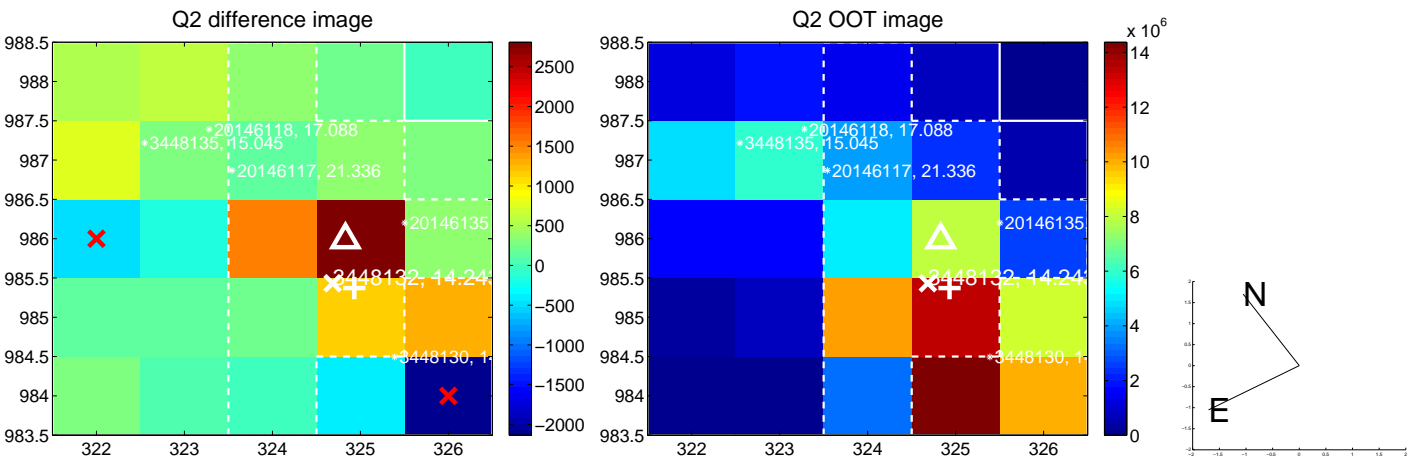
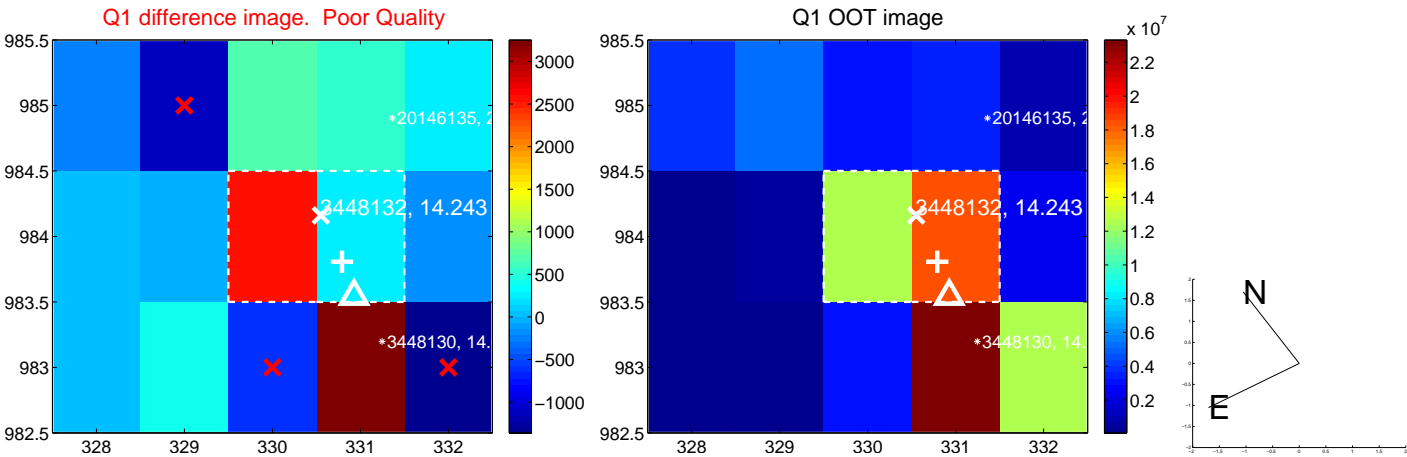


offset from photometric centroids

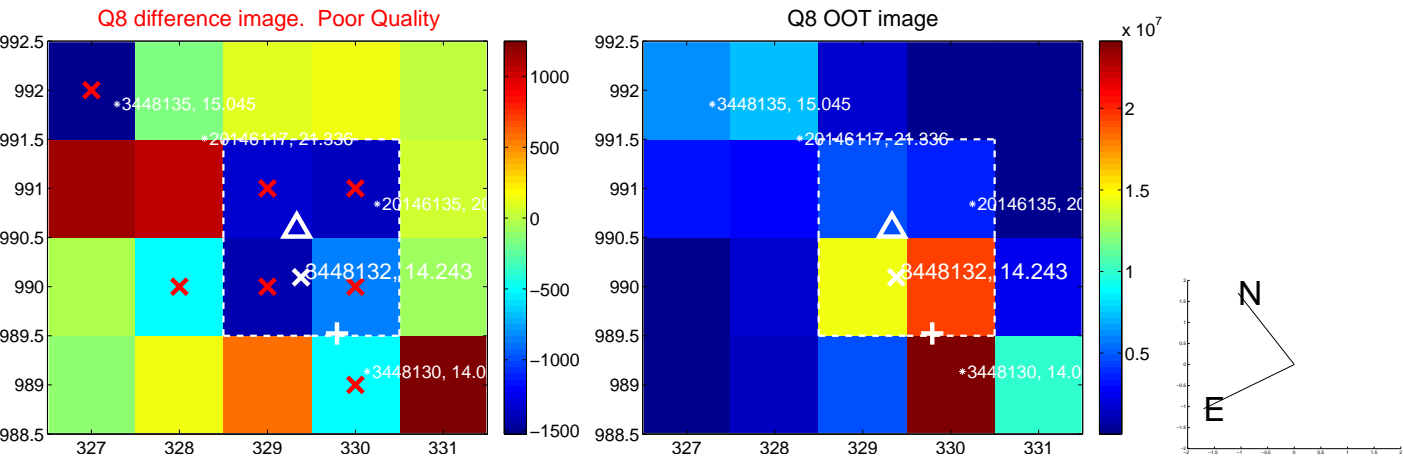
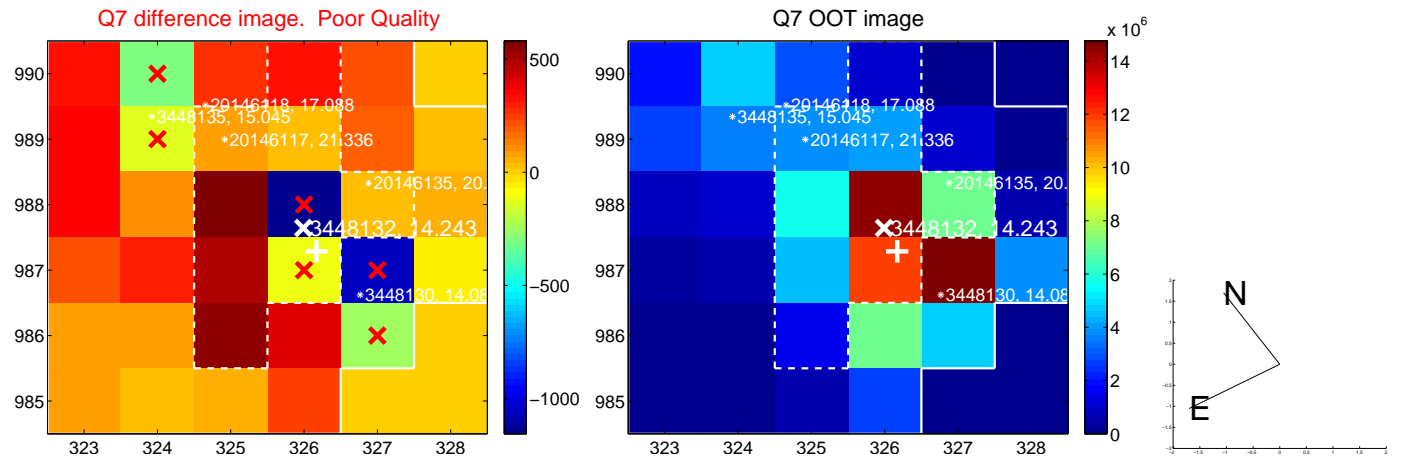
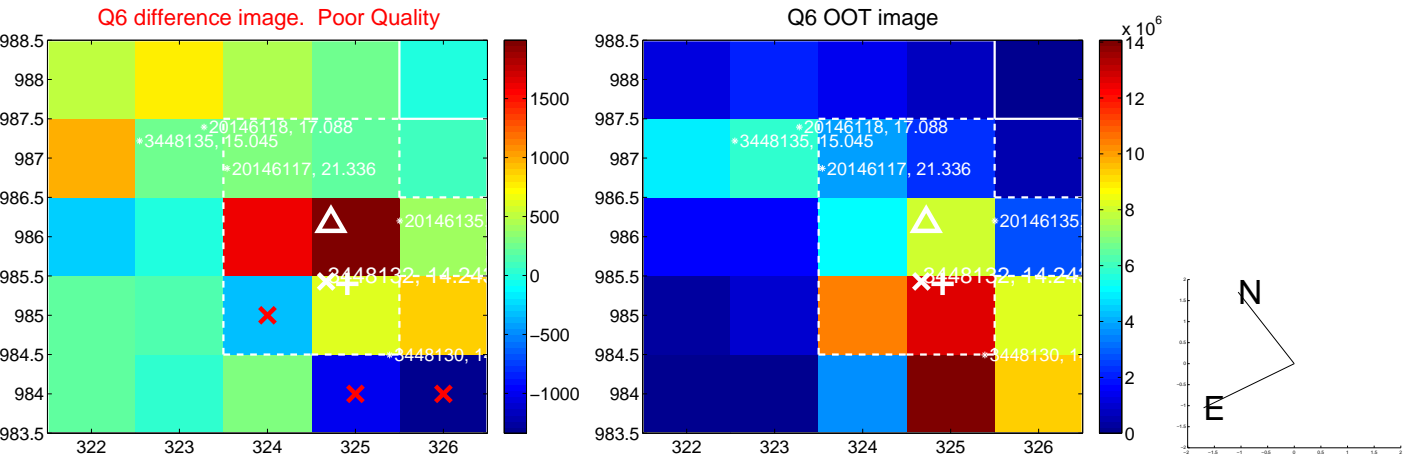
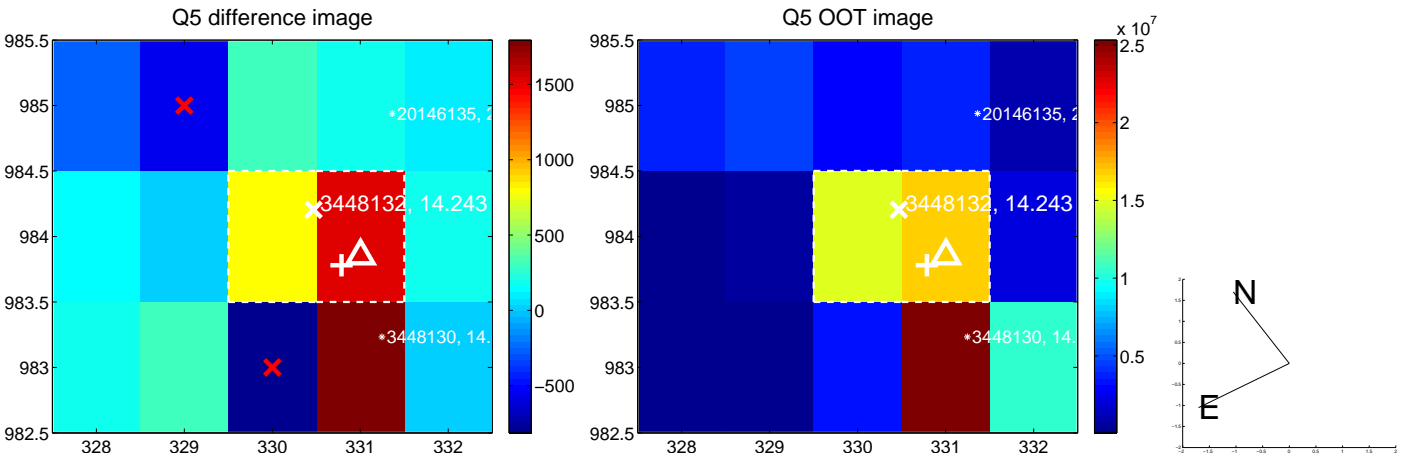


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

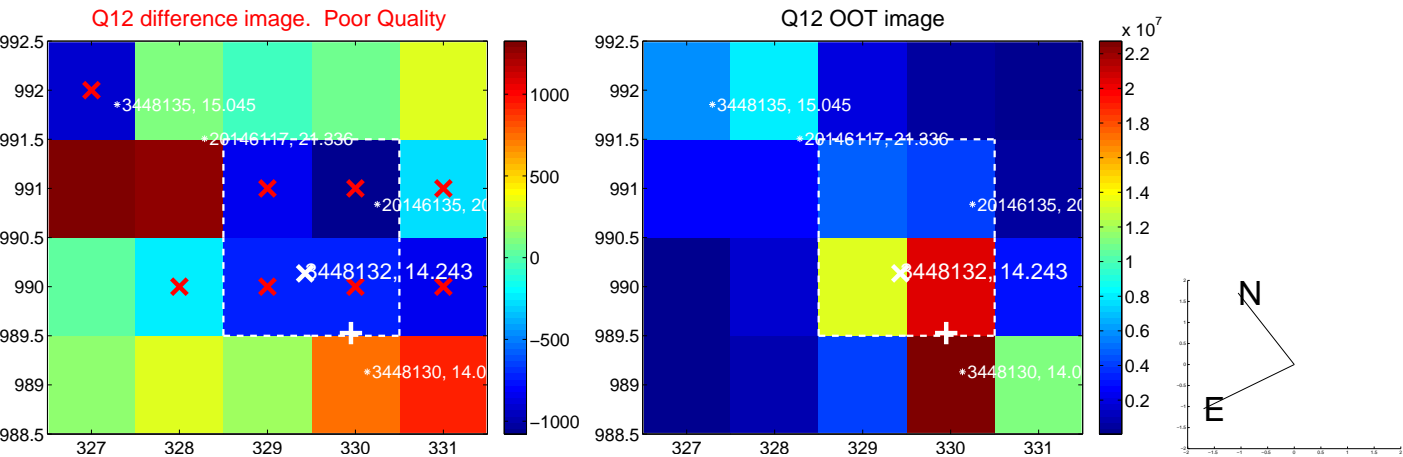
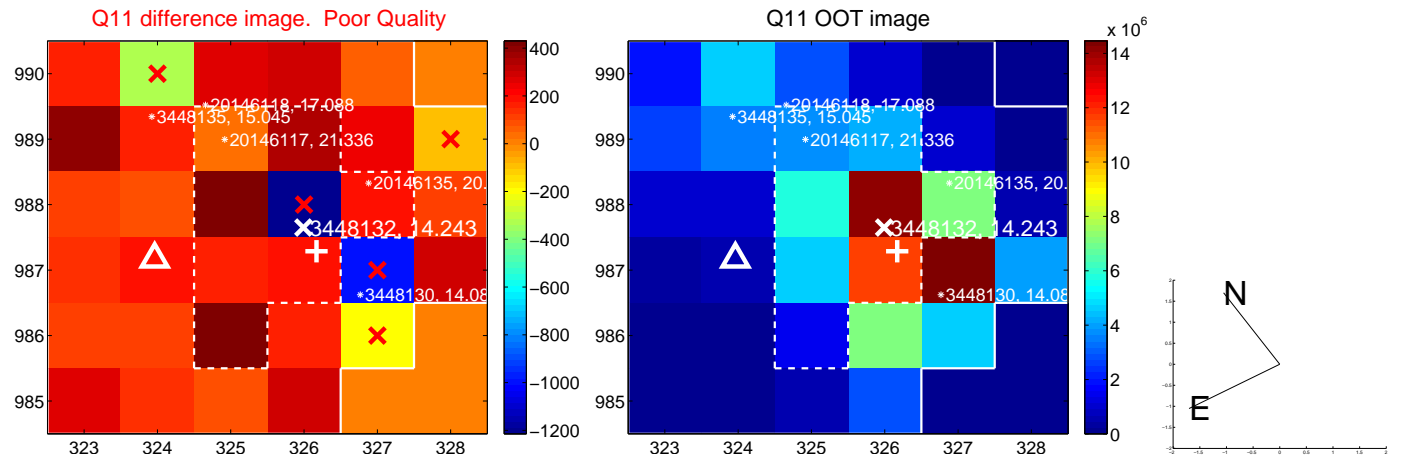
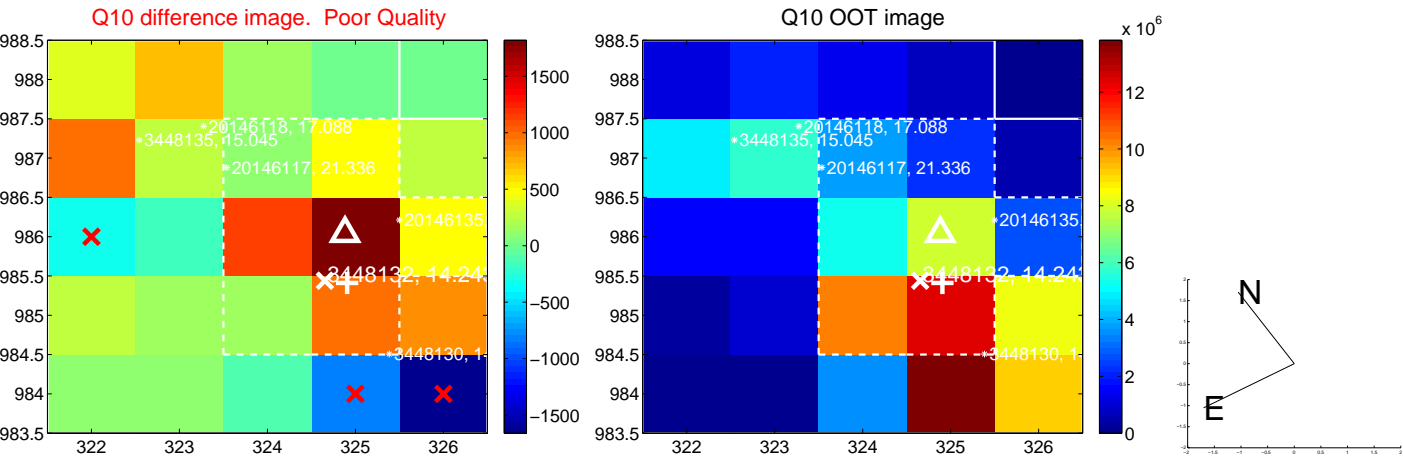
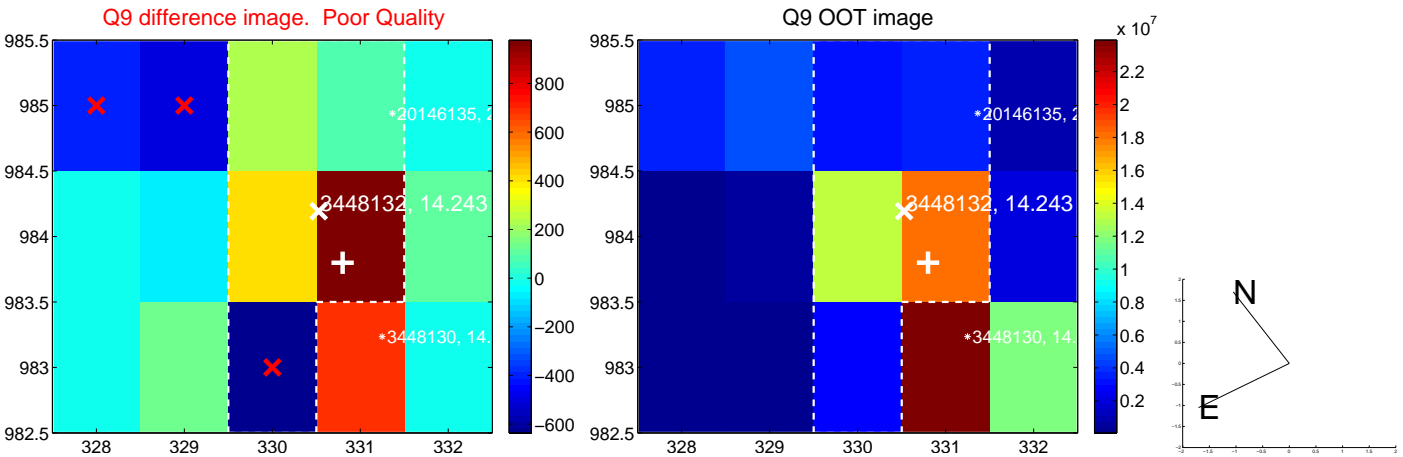
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



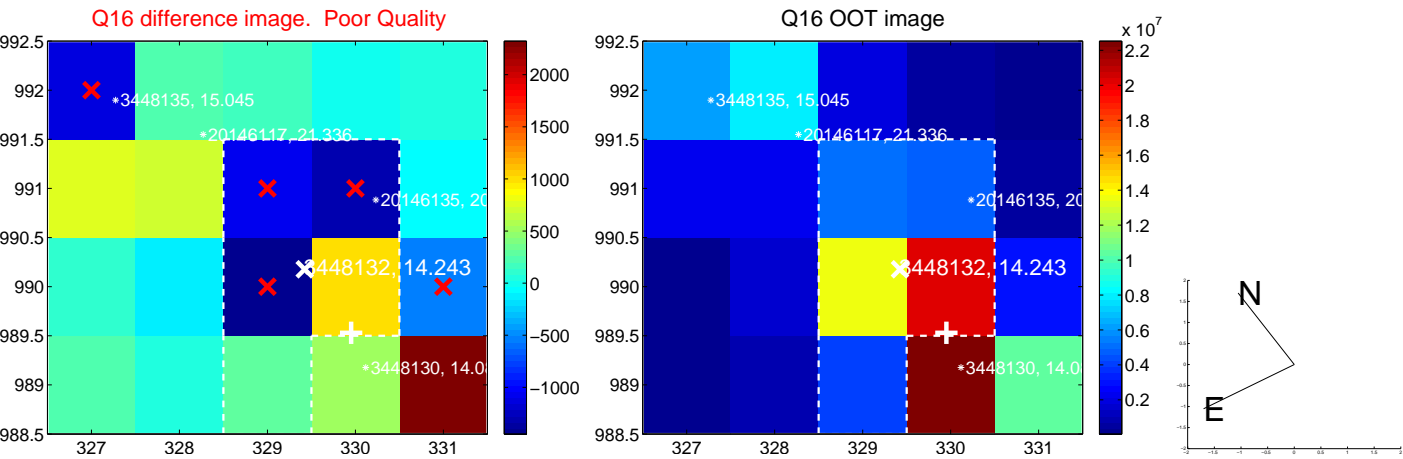
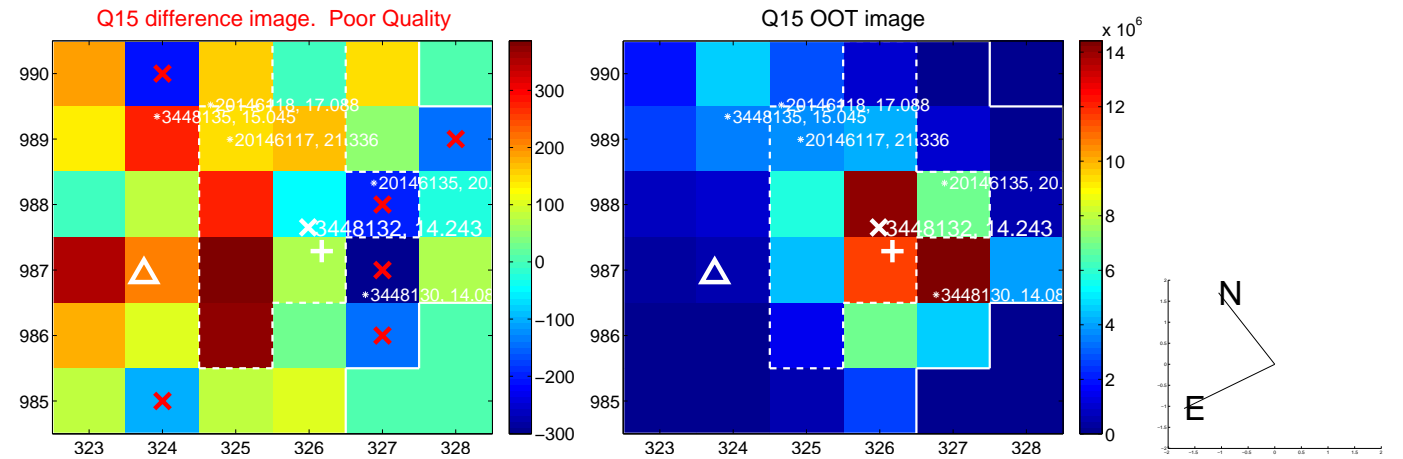
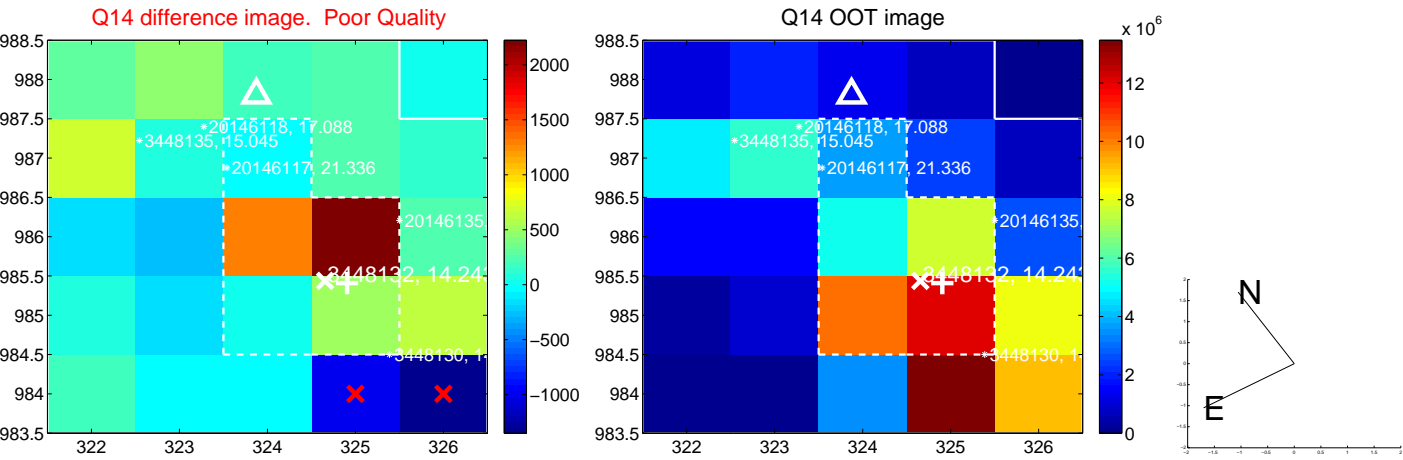
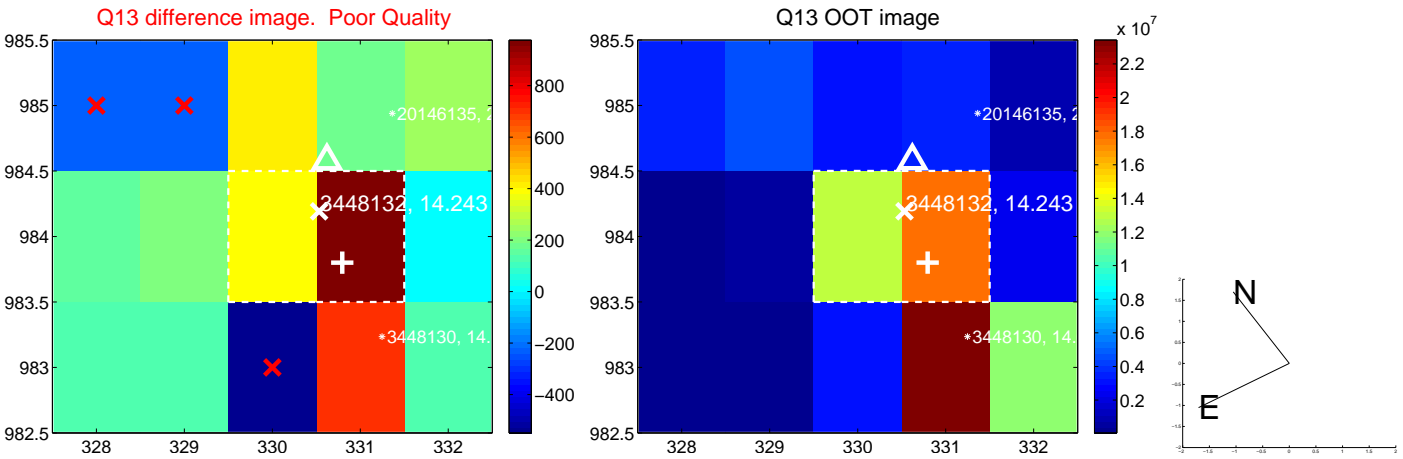
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



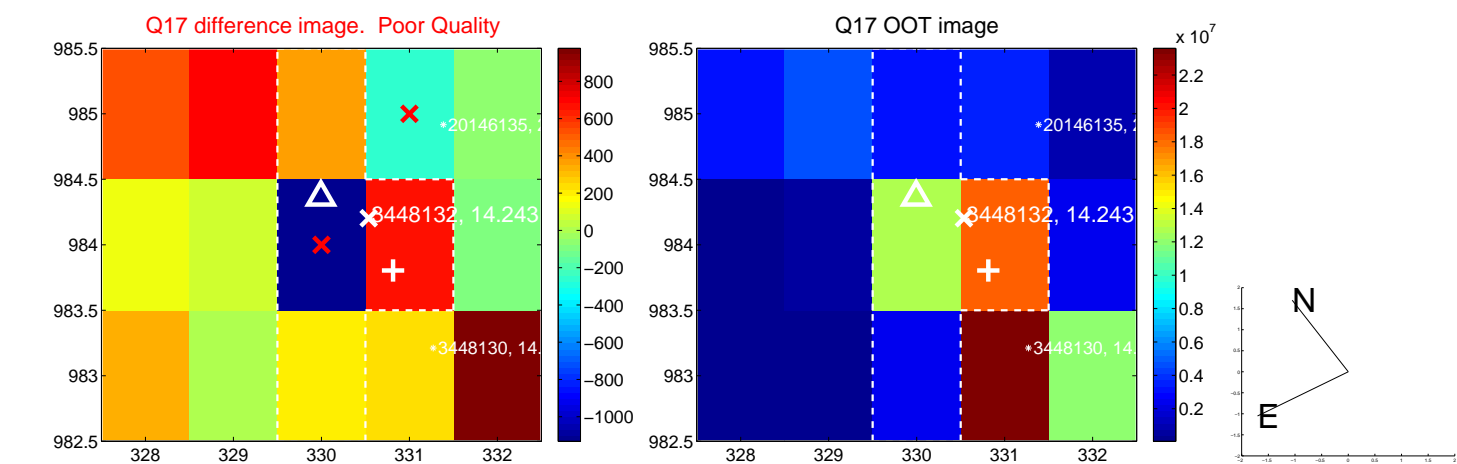
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



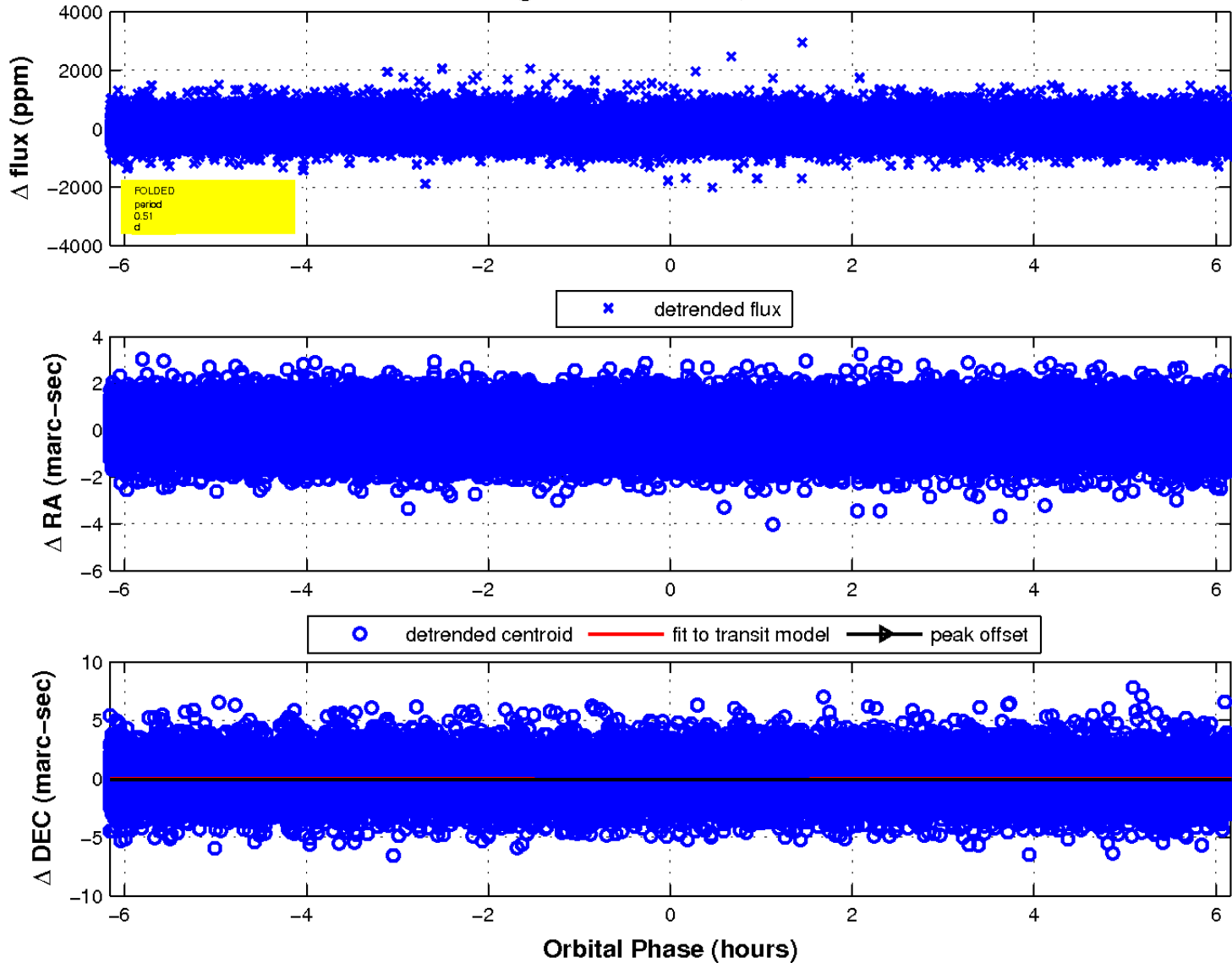
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

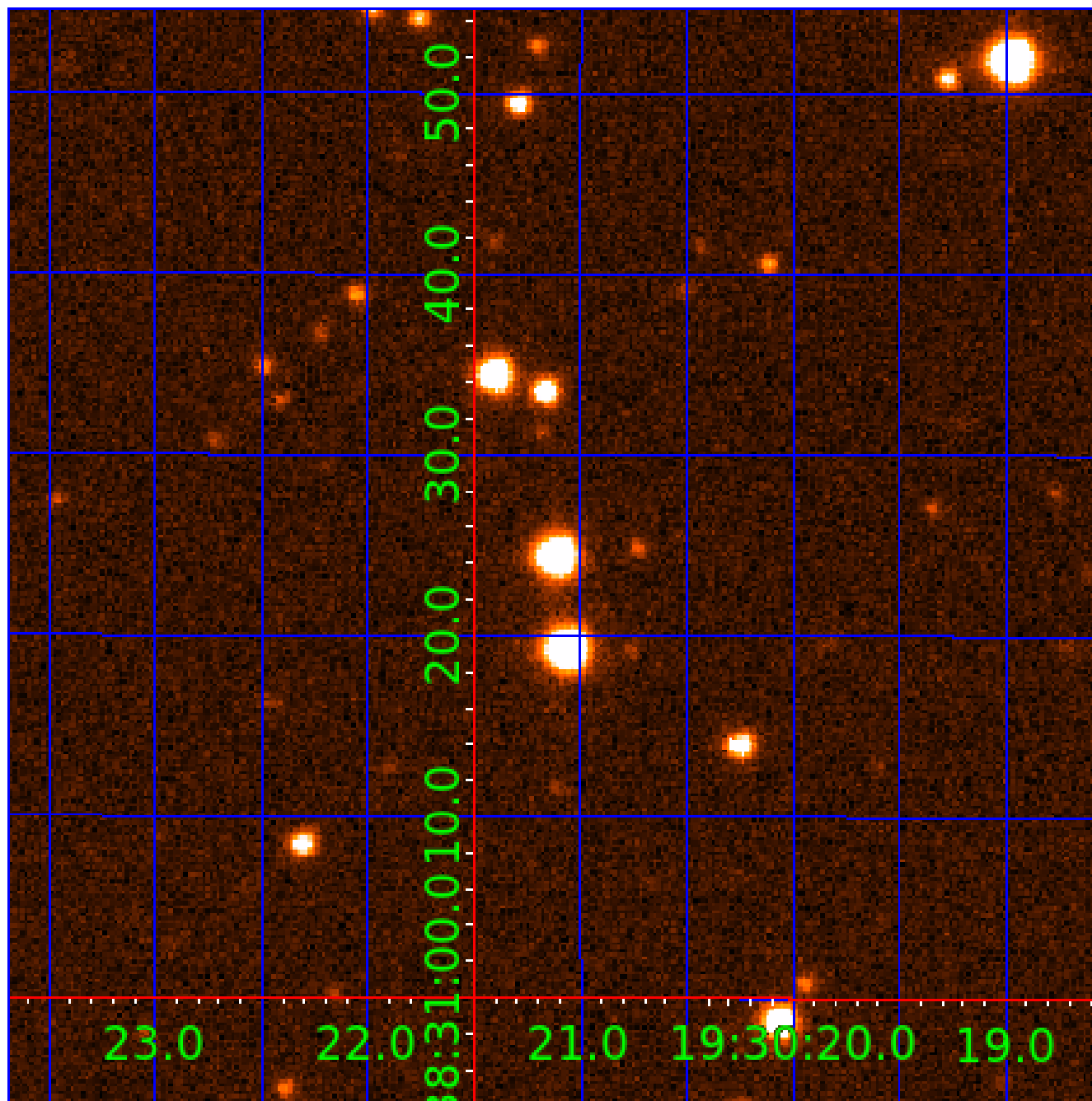


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 003448132

Q1-17 DR25 TCE Parameters

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003448132-02	OBS	No	33.367170	149.706268	109.6	2.336	10.6	1.3	1.02	6240	1.26	32.69
003448132-03	OBS	No	66.705051	186.401782	979.1	2.559	8.1	6.6	1.02	6240	3.32	12.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003448132-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_KIC_POS—HALO_GHOST—EPHEM_MATCH
003448132-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
003448132-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

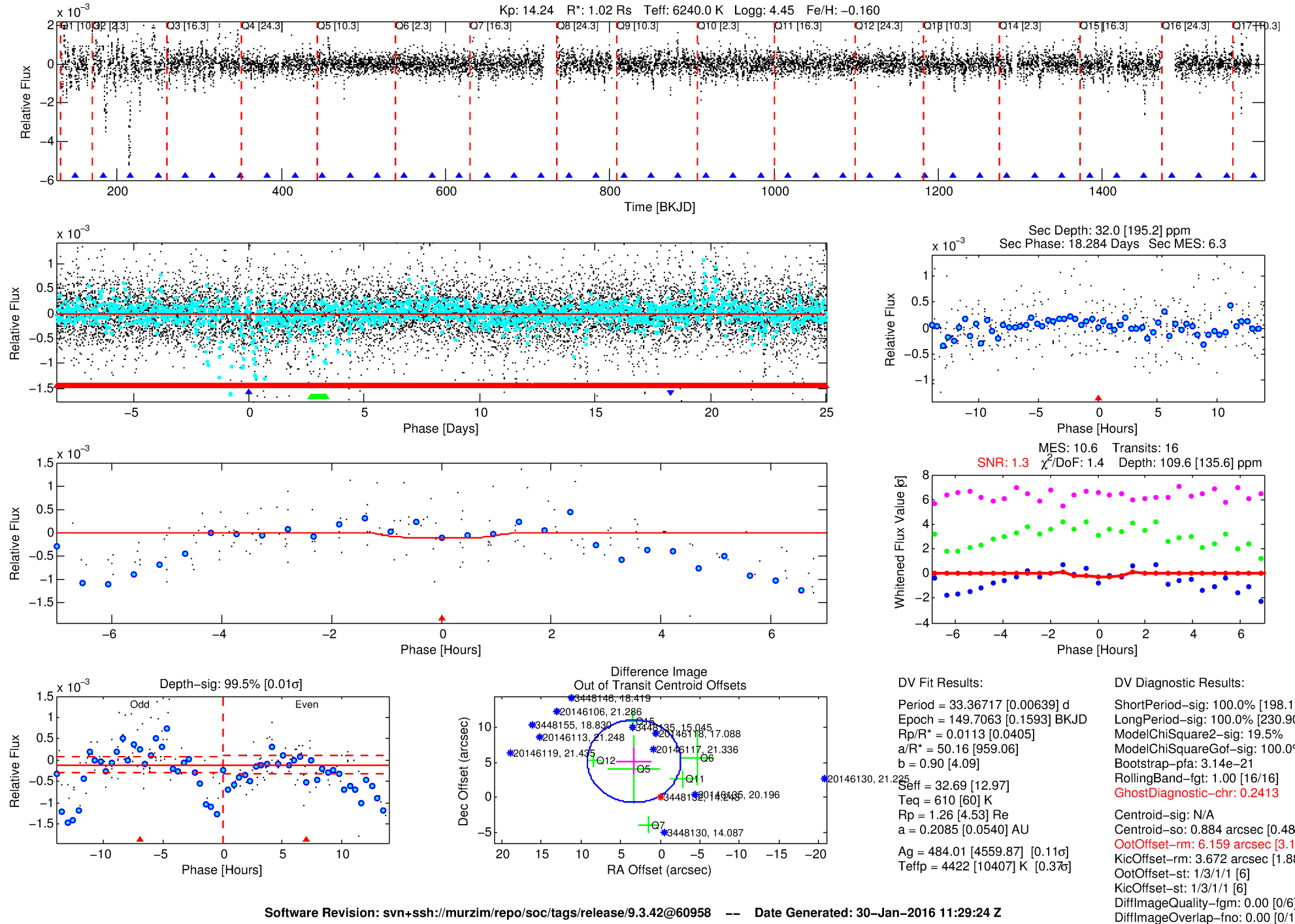
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003448132-02

No Significant Match Found

DV One-Page Summary

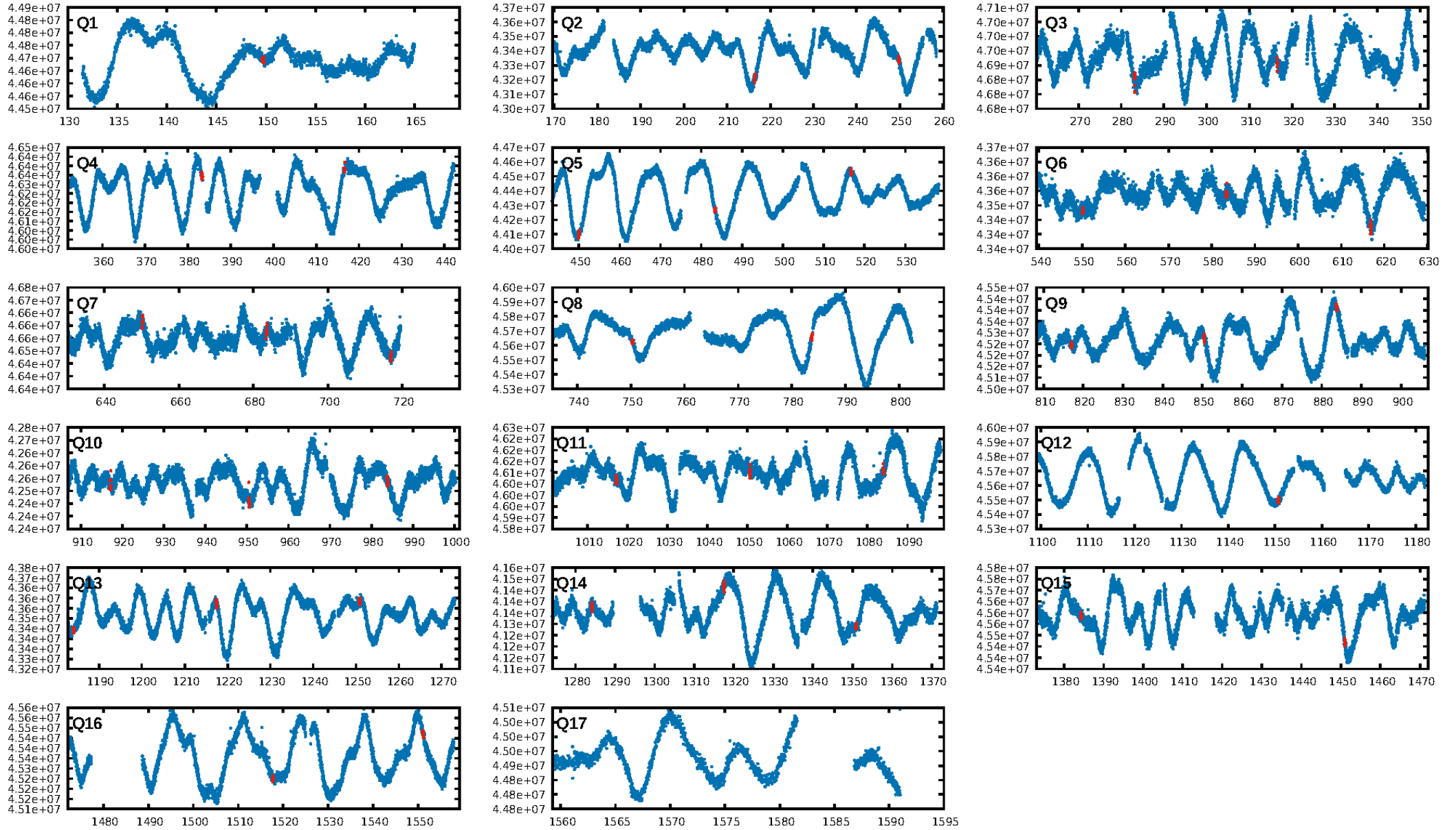
KIC: 3448132 Candidate: 2 of 3 Period: 33.367 d



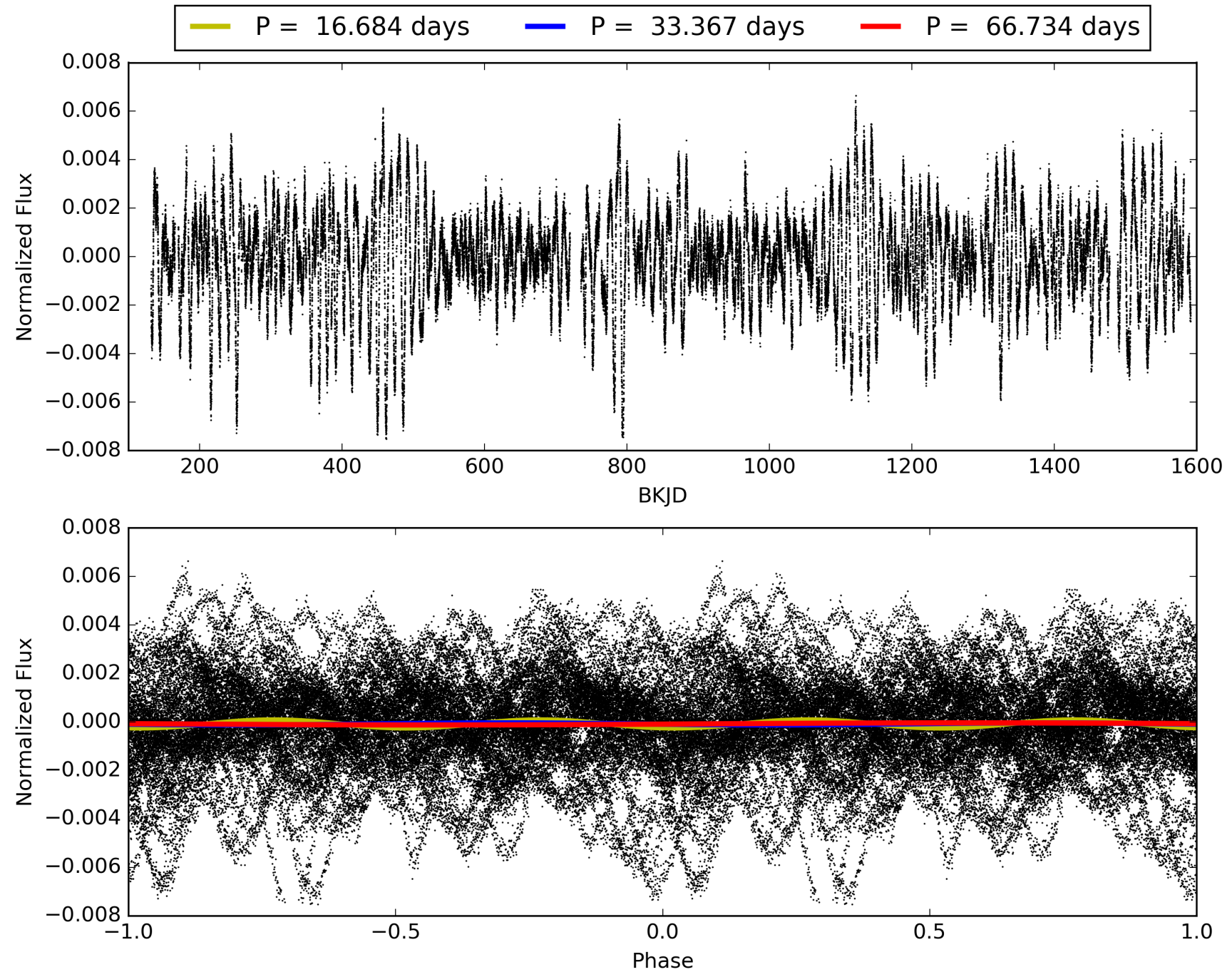
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:29:24 Z

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

TCE 003448132-02, PDC Light Curves

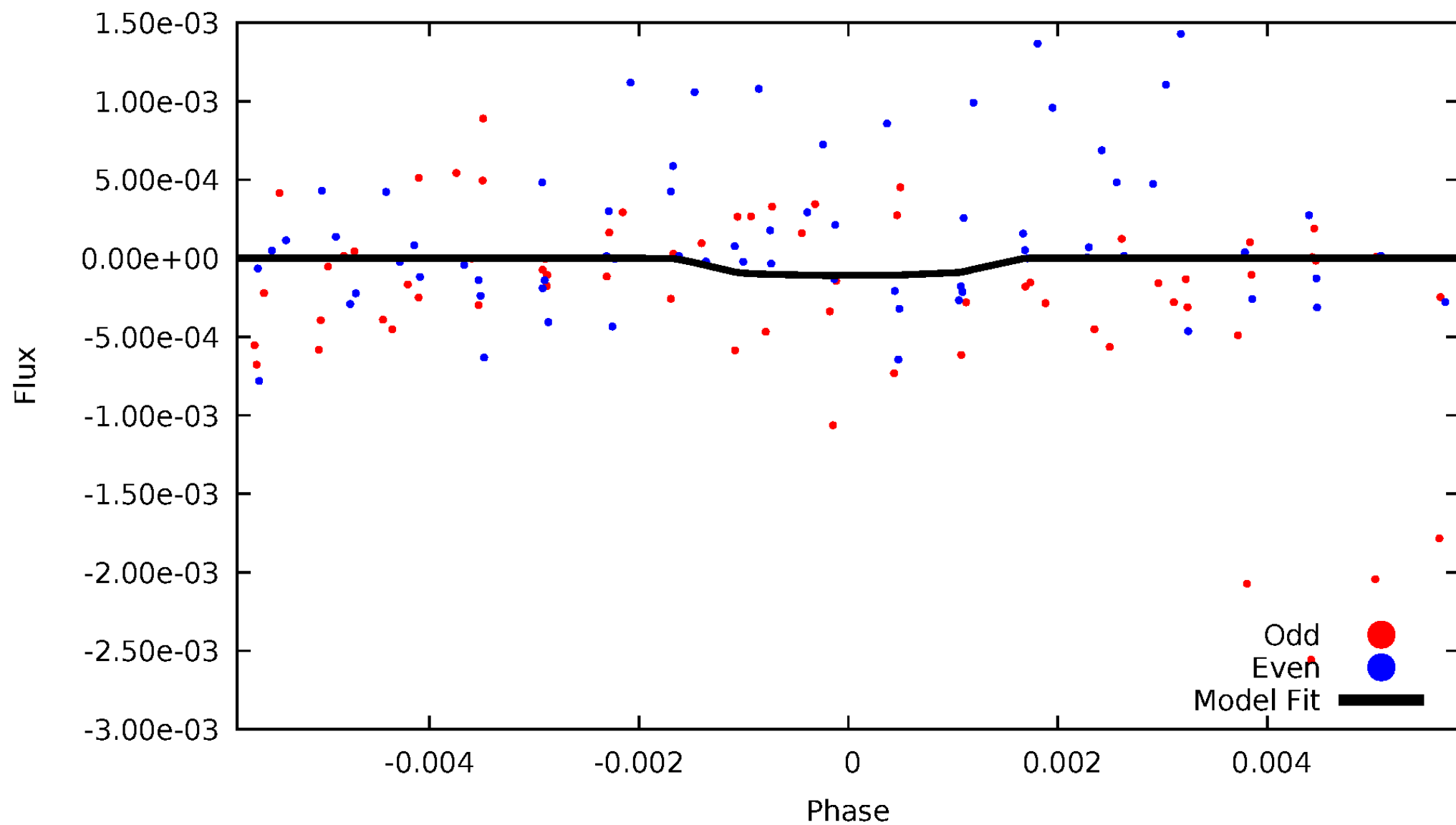


TCE 003448132-02



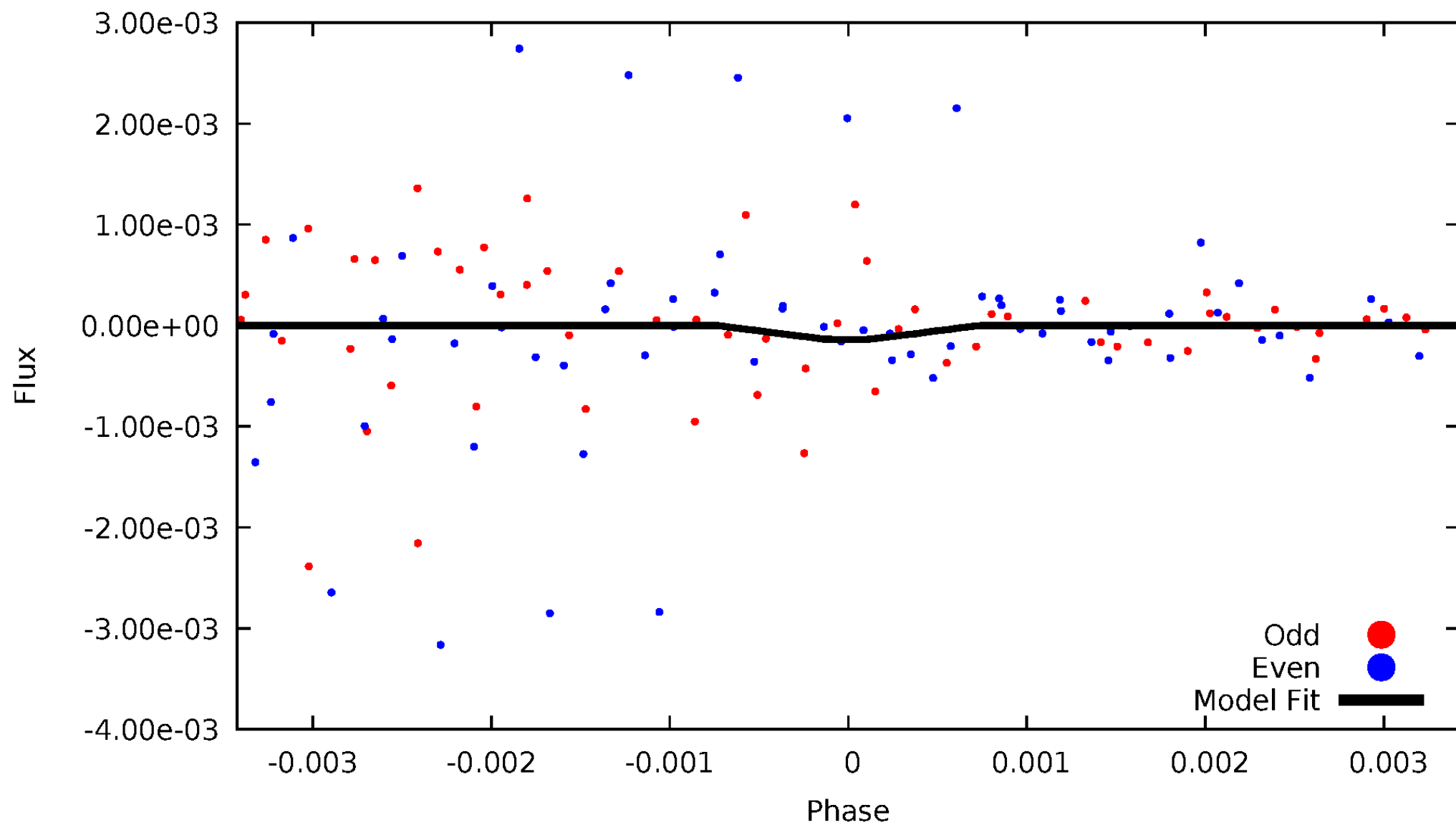
DV Odd/Even

TCE 003448132-02



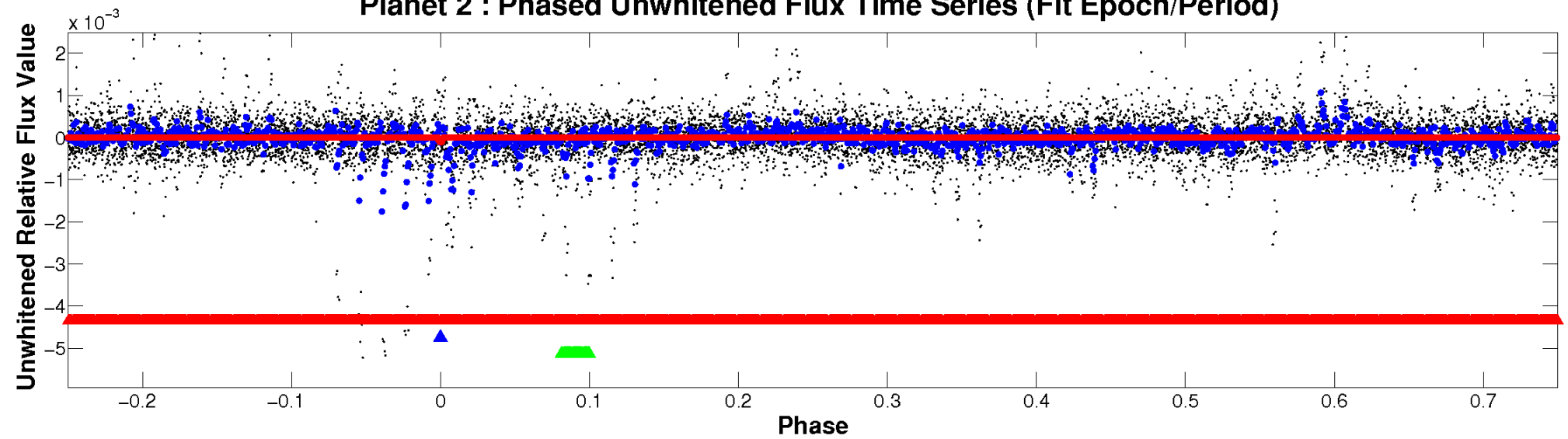
ALT Odd/Even

TCE 003448132-02

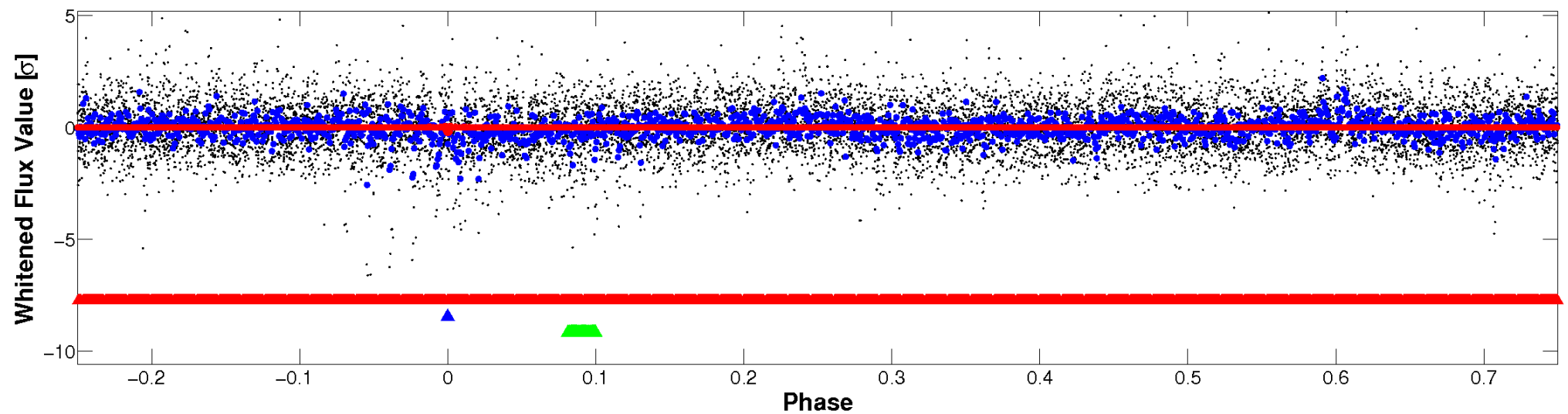


Non-Whitened Vs. Whitened Light Curve

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

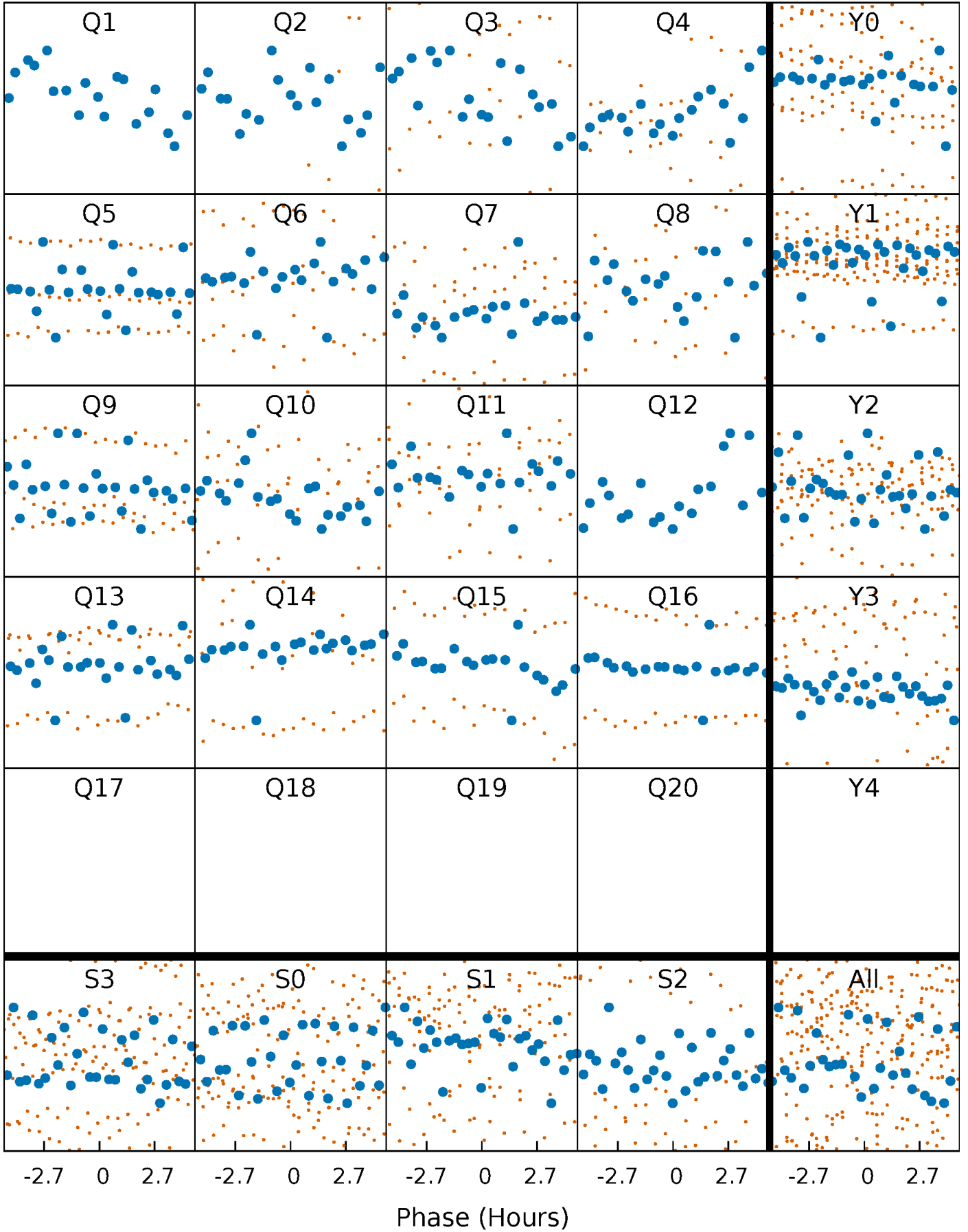


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



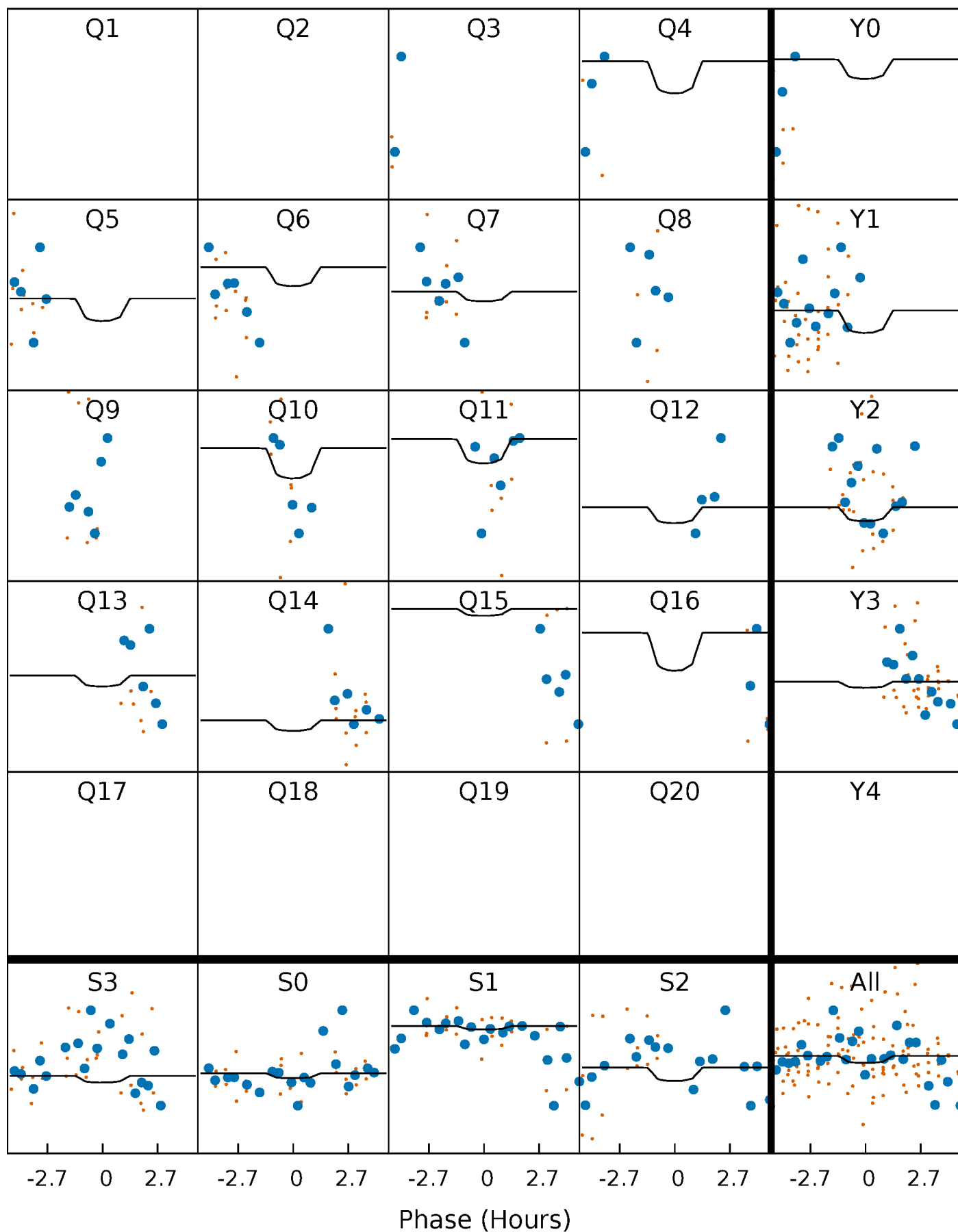
PDC Quarter-Phased Transit Curves

TCE 003448132-02 P= 33.367170 Days $T_0=149.706268$ (BKJD)



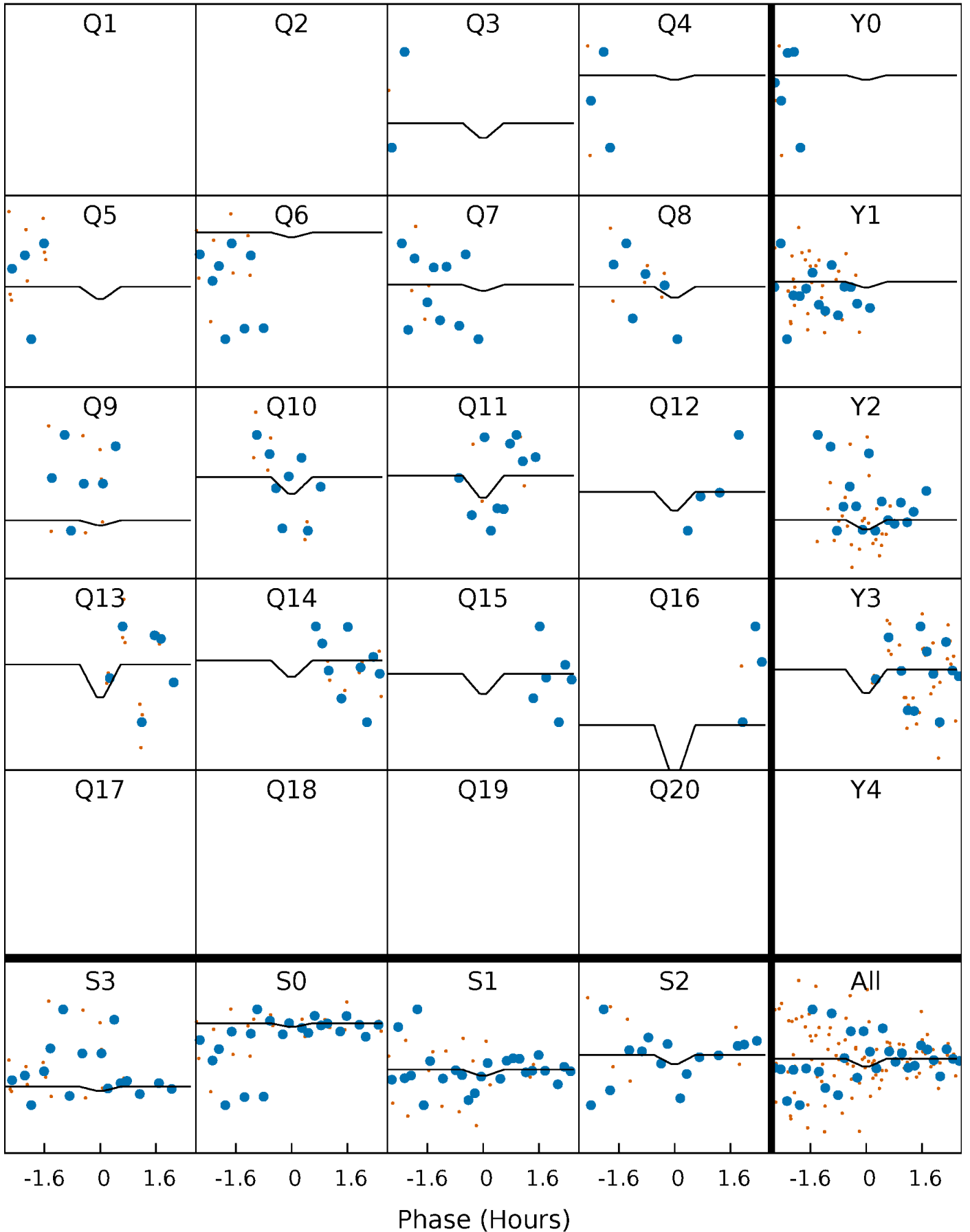
DV Quarter-Phased Transit Curves

TCE 003448132-02 P= 33.367170 Days $T_0=149.706268$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

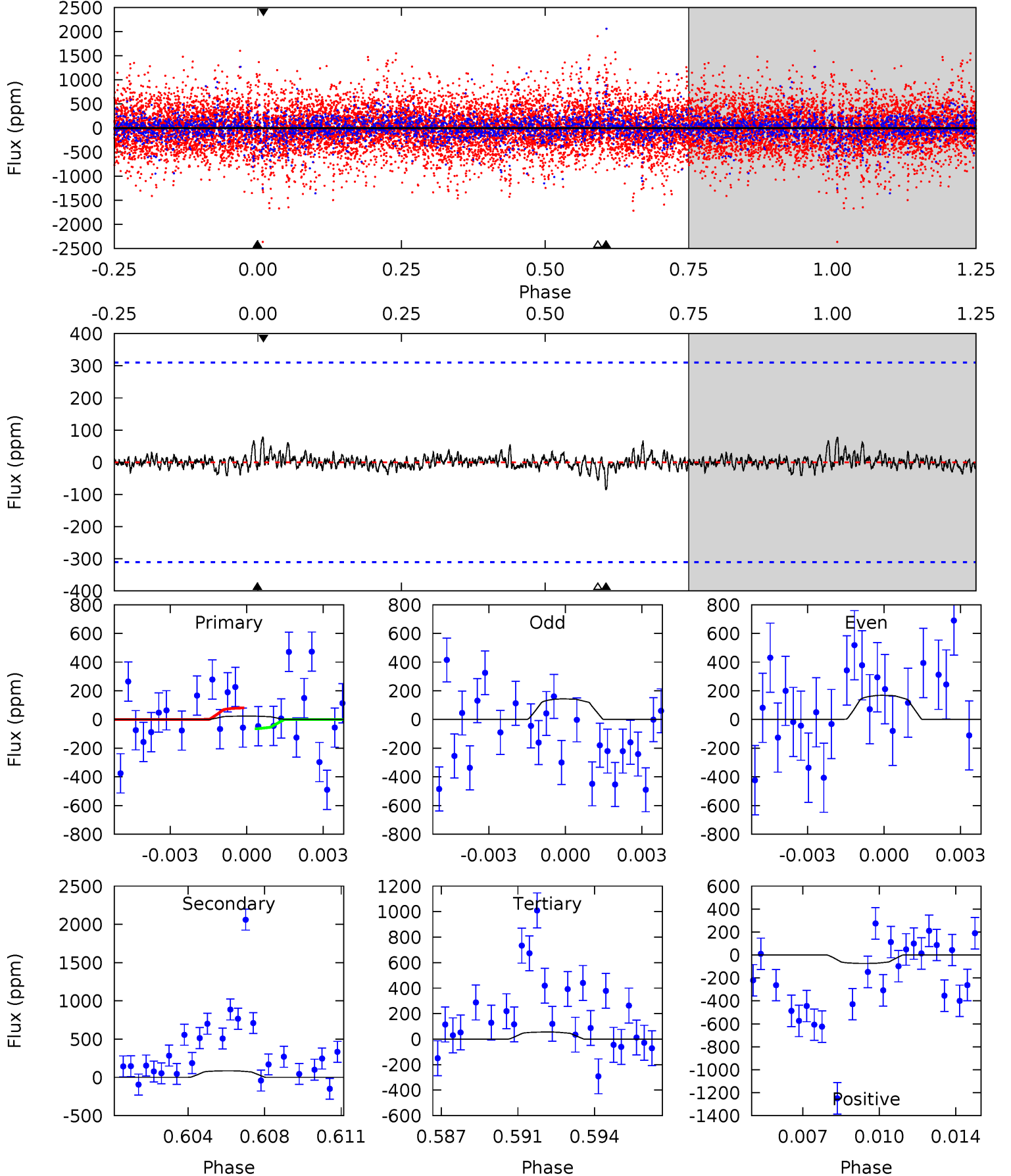
TCE 003448132-02 P= 33.371168 Days $T_0=149.610438$ (BKJD)



DV Model-Shift Uniqueness Test

003448132-02, P = 33.367170 Days, E = 116.339098 Days

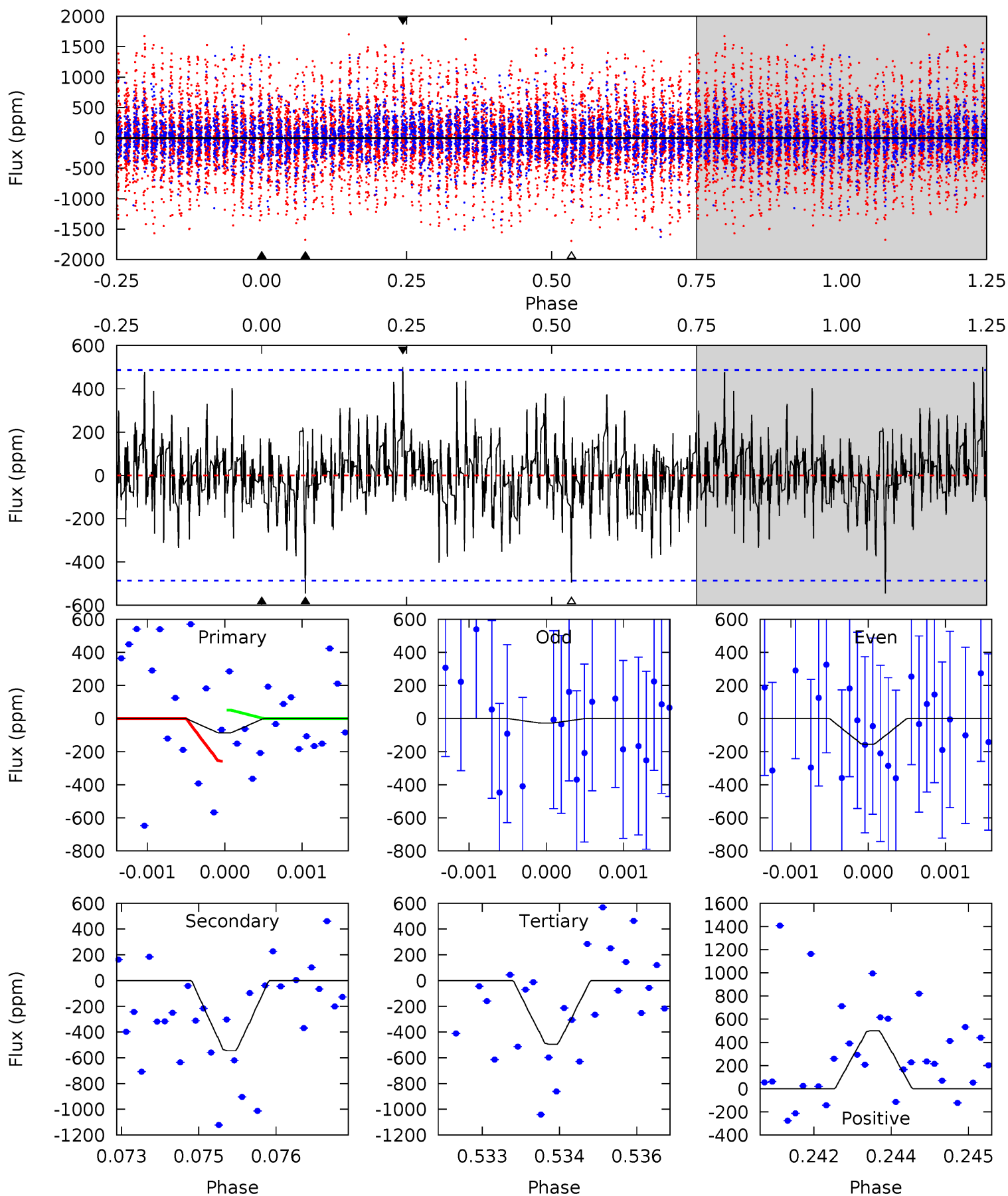
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.39	1.45	0.94	1.25	5.23	2.93	0.26	-0.54	-0.85	0.51	0.20	0.20	0.55	0.48	0.13



Alt Model-Shift Uniqueness Test

003448132-02, P = 33.371168 Days, E = 116.239270 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.97	6.04	5.48	5.54	5.38	3.18	1.42	-4.51	-4.58	0.56	0.50	0.71	-1.85	0.48	0



Stellar Parameters For KIC 003448132

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6240^{+175}_{-219}	$4.454^{+0.050}_{-0.200}$	$-0.160^{+0.250}_{-0.350}$	$1.023^{+0.320}_{-0.107}$	$1.081^{+0.144}_{-0.144}$	$1.423^{+0.390}_{-0.736}$
	+3%/-4%	+1%/-4%	+156%/-219%	+31%/-10%	+13%/-13%	+27%/-52%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003448132-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-86 ± 59	$3.62^{+3.94}_{-2.53}$	869^{+61}_{-43}	3658^{+2162}_{-834}	127^{+1217}_{-105}
Alt.	-545 ± 90	$3.87^{+3.98}_{-2.74}$	871^{+59}_{-45}	5336^{+5523}_{-1327}	861^{+8783}_{-660}

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

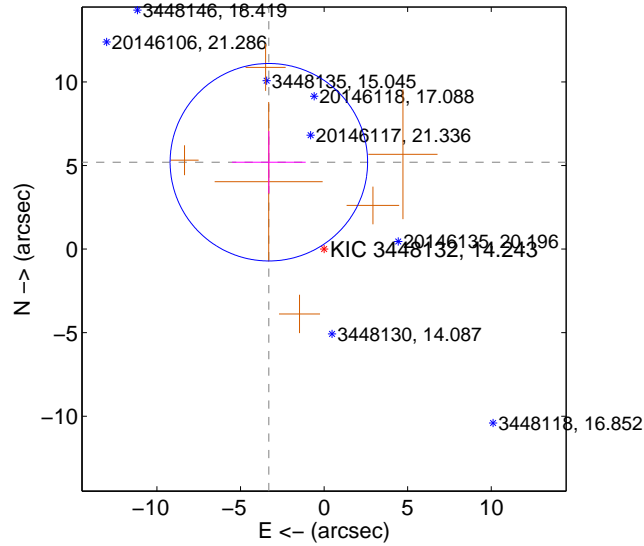
Supplemental centroid analysis for 003448132-02. Kepler magnitude: 14.24. Transit SNR 1.26

There are 0 quarters with good PRF difference image offsets

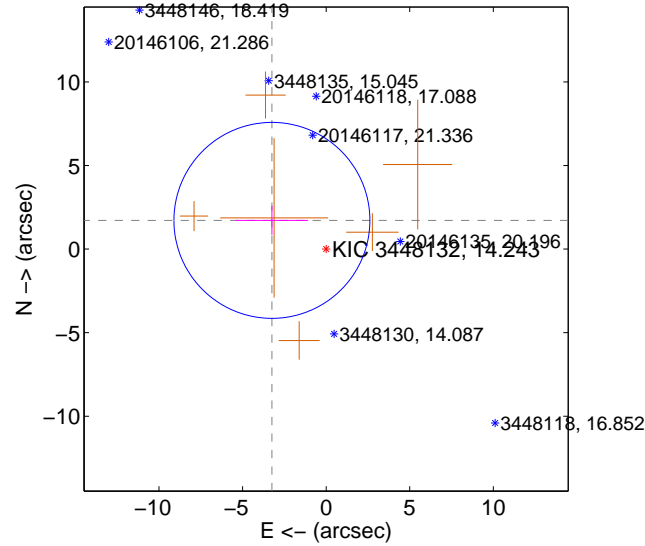
The direct PRF centroid is offset from the target star catalog position by about 1.66 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	6.159 ± 1.969	3.13	3.304 ± 2.203	5.198 ± 1.866
PRF-fit source offset from KIC position	3.672 ± 1.954	1.88	3.245 ± 2.163	1.718 ± 0.866
photometric centroid source offset	0.88 ± 1.86	0.48	0.39 ± 1.44	-0.79 ± 1.94

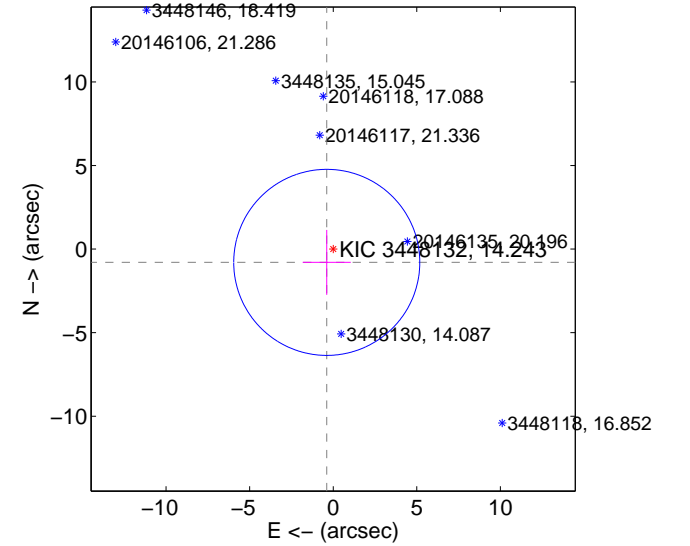
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

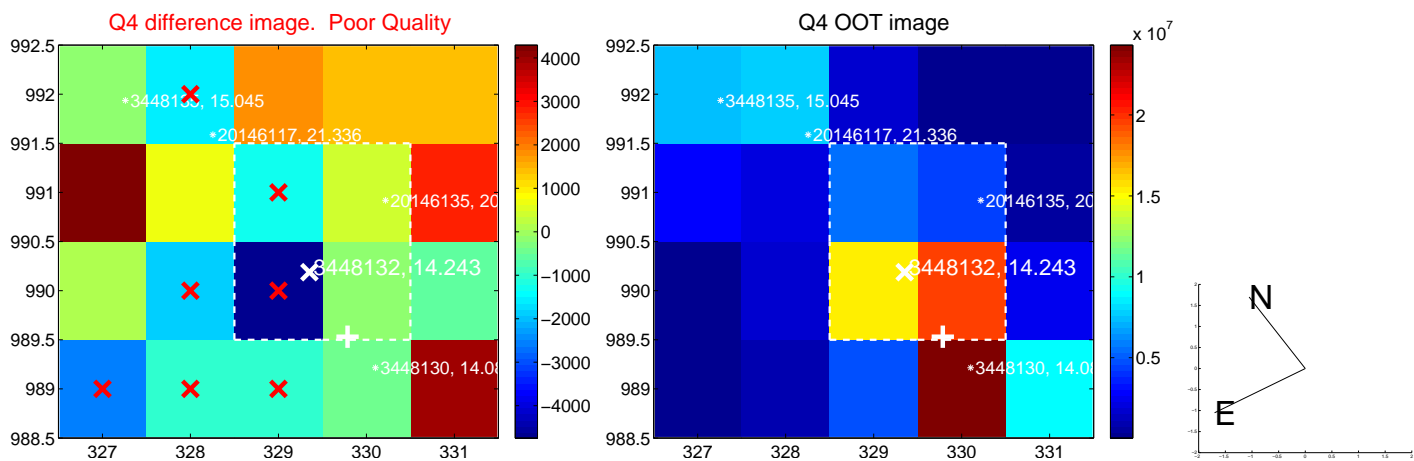
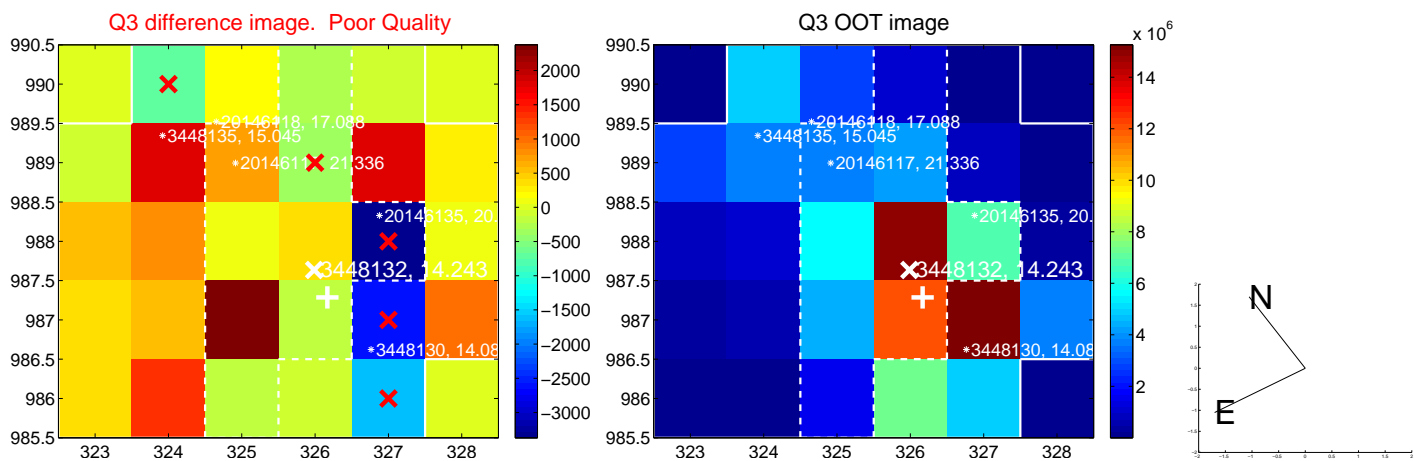
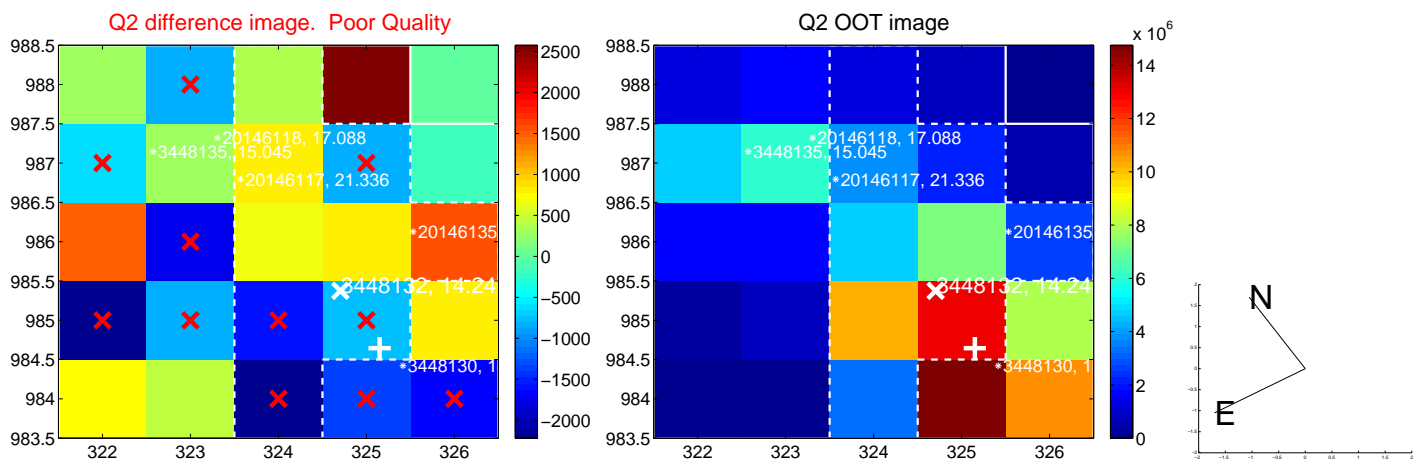
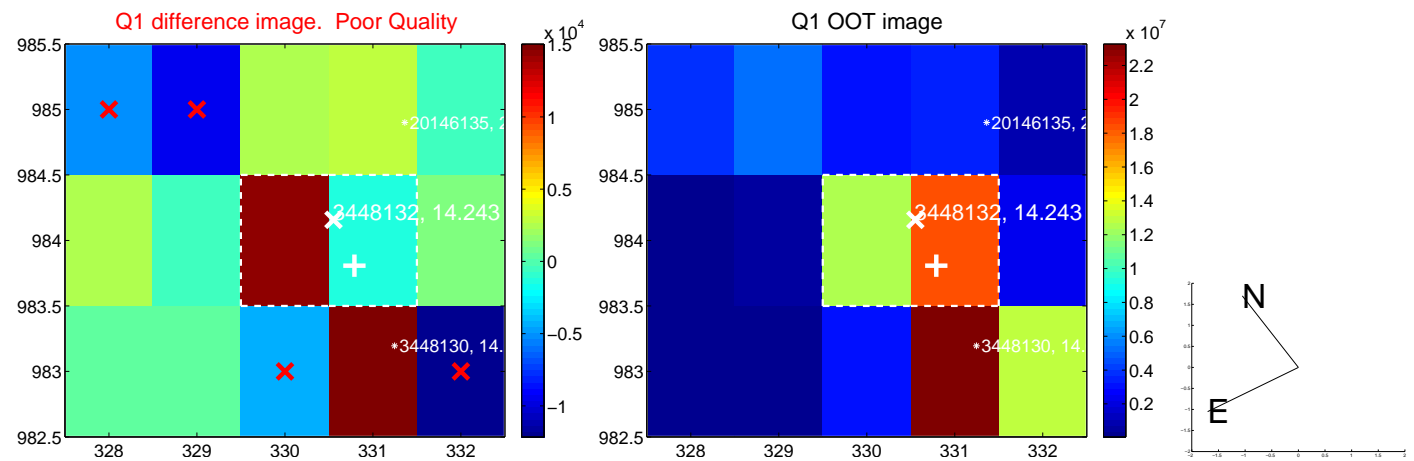


offset from photometric centroids

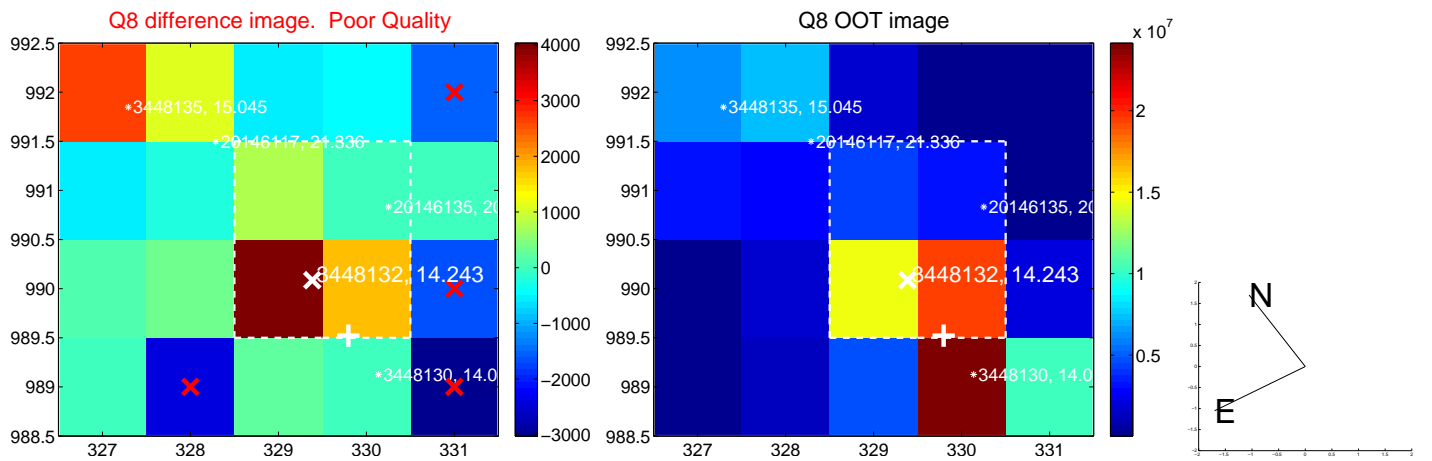
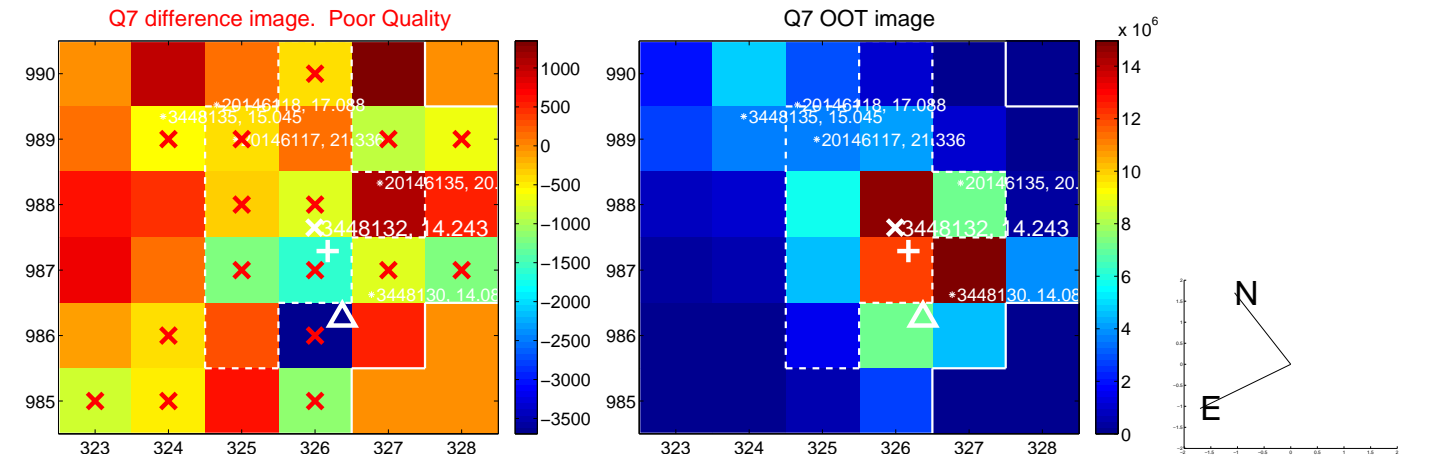
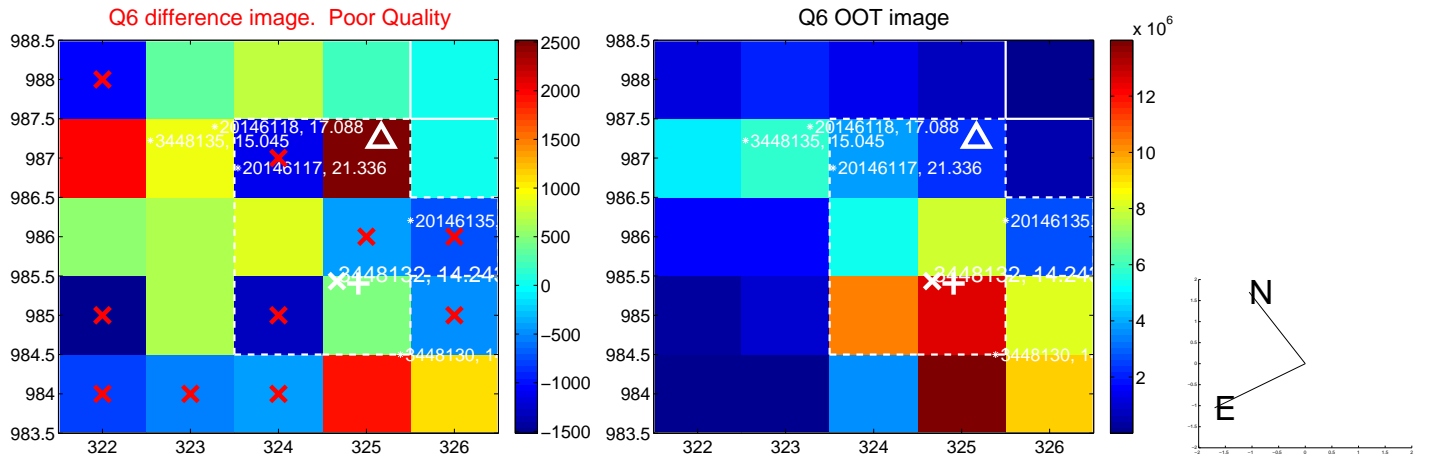
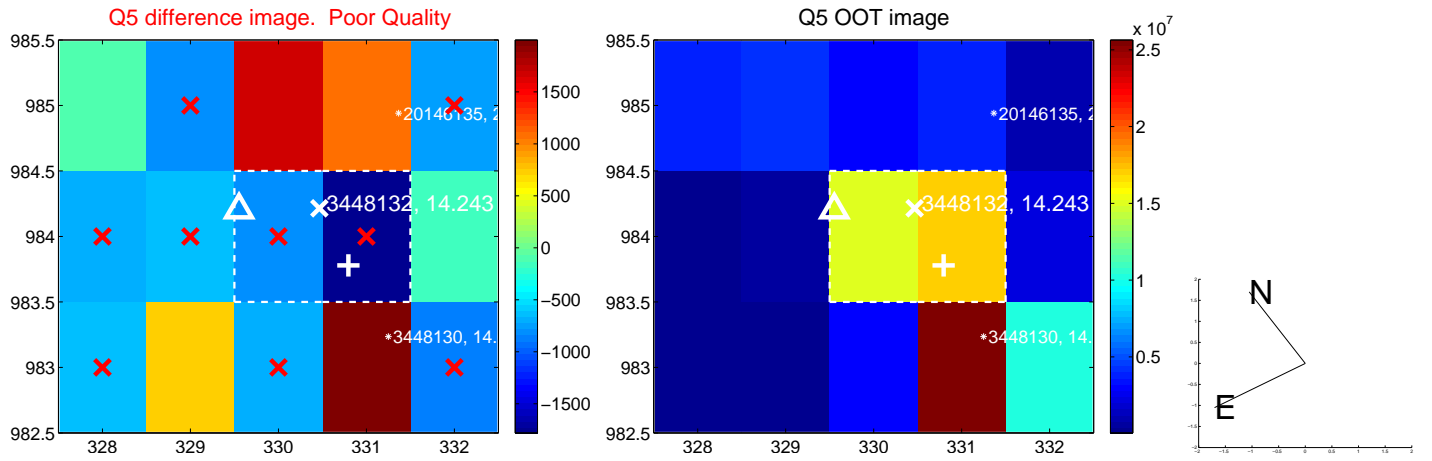


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

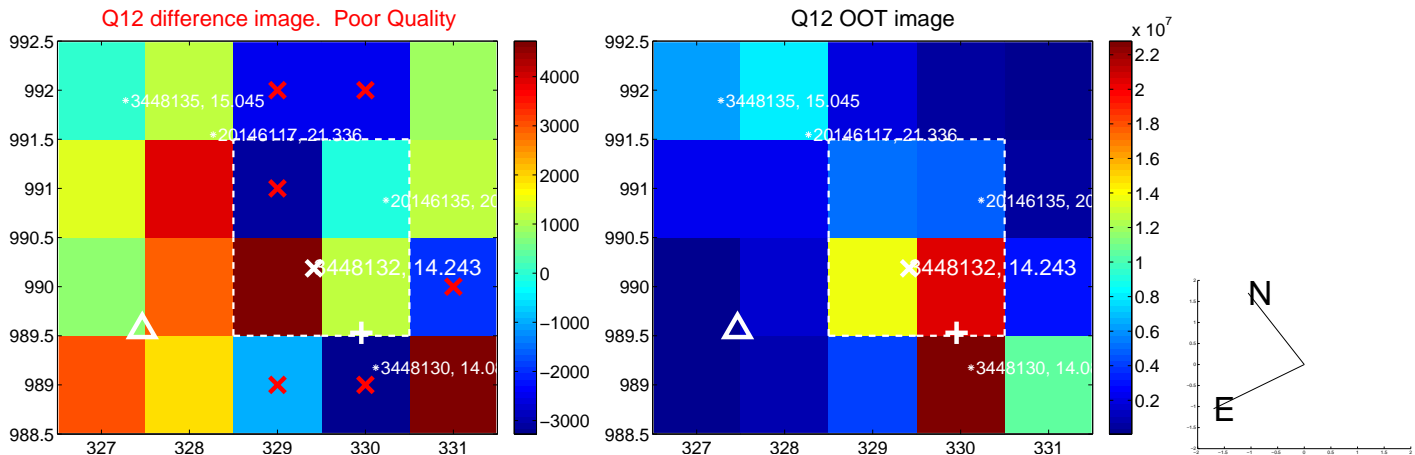
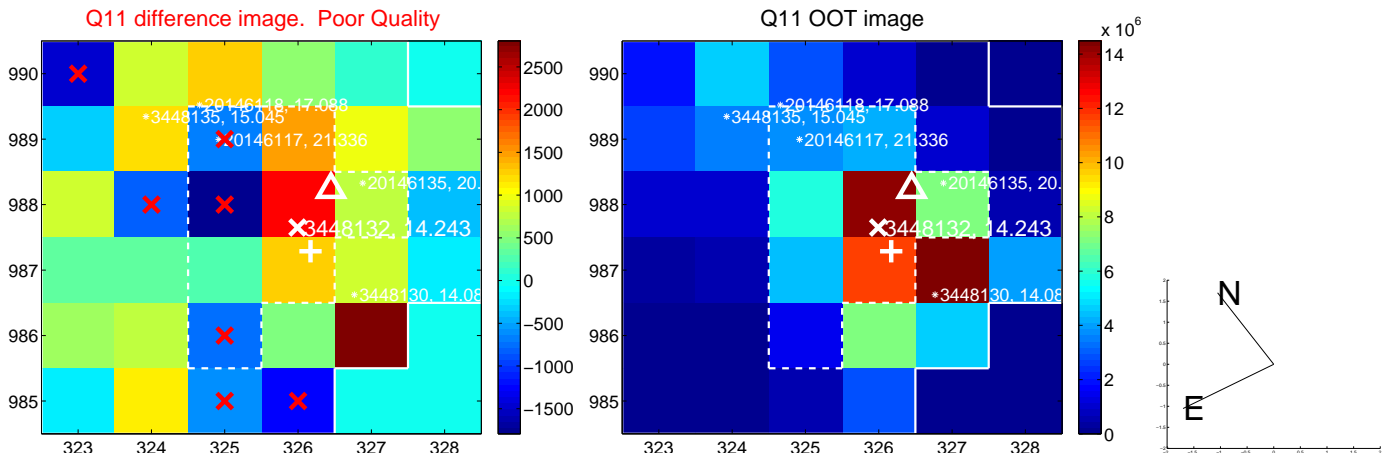
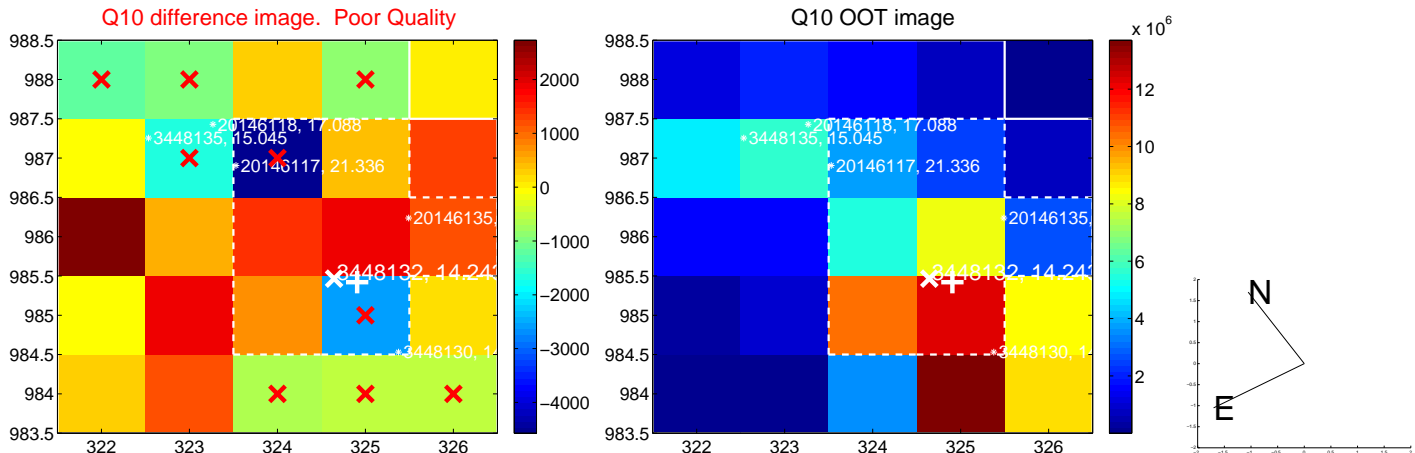
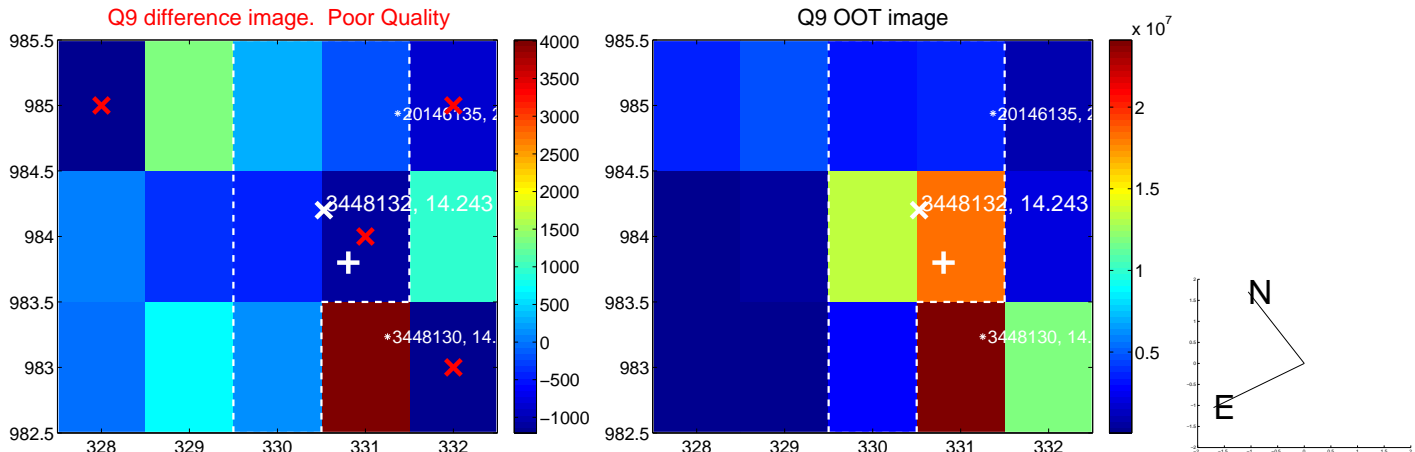
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



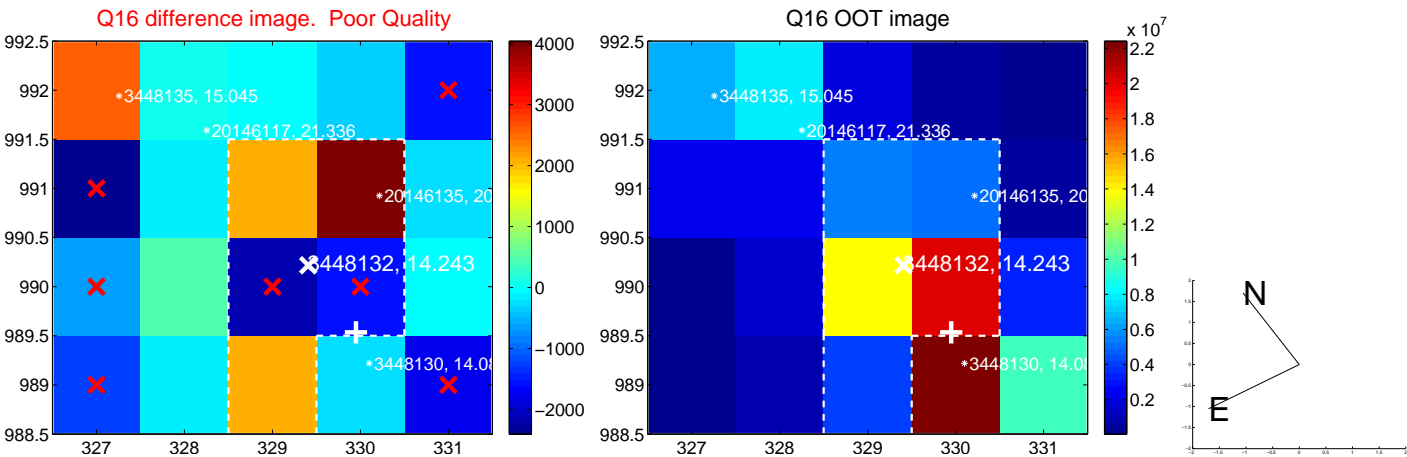
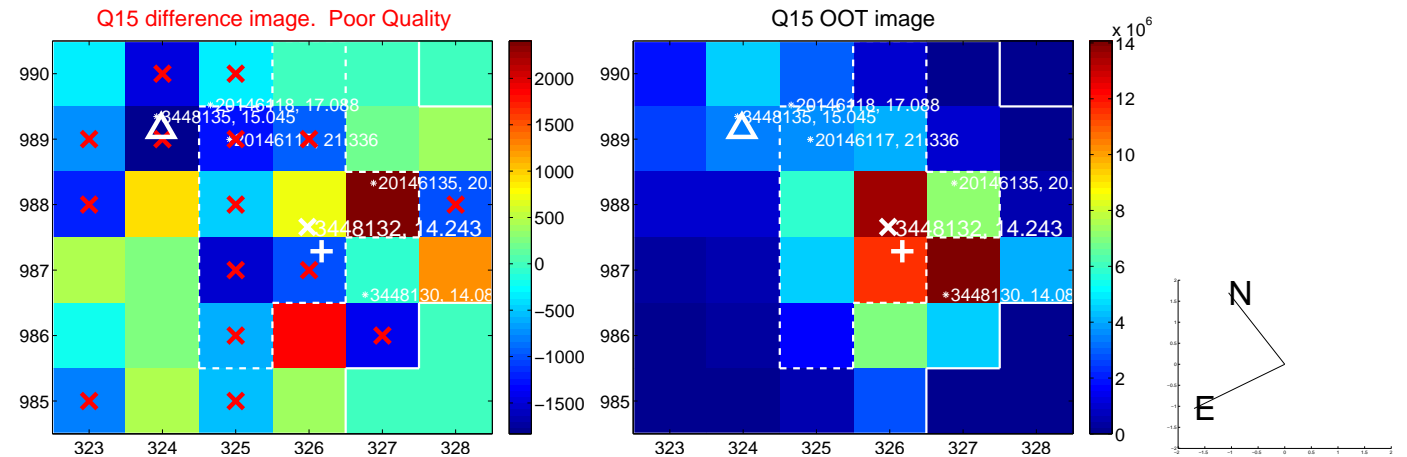
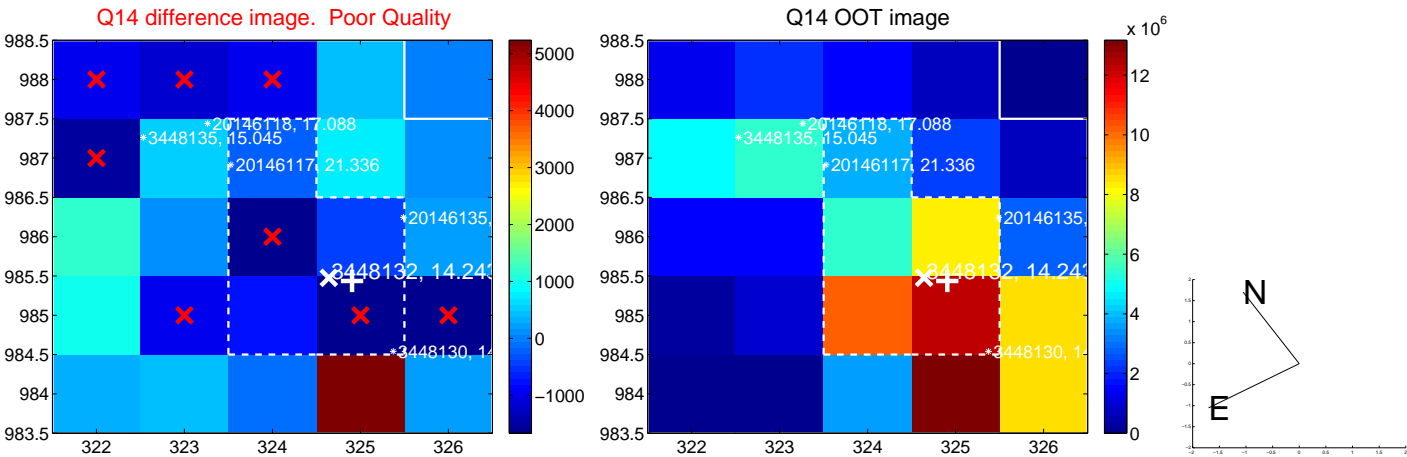
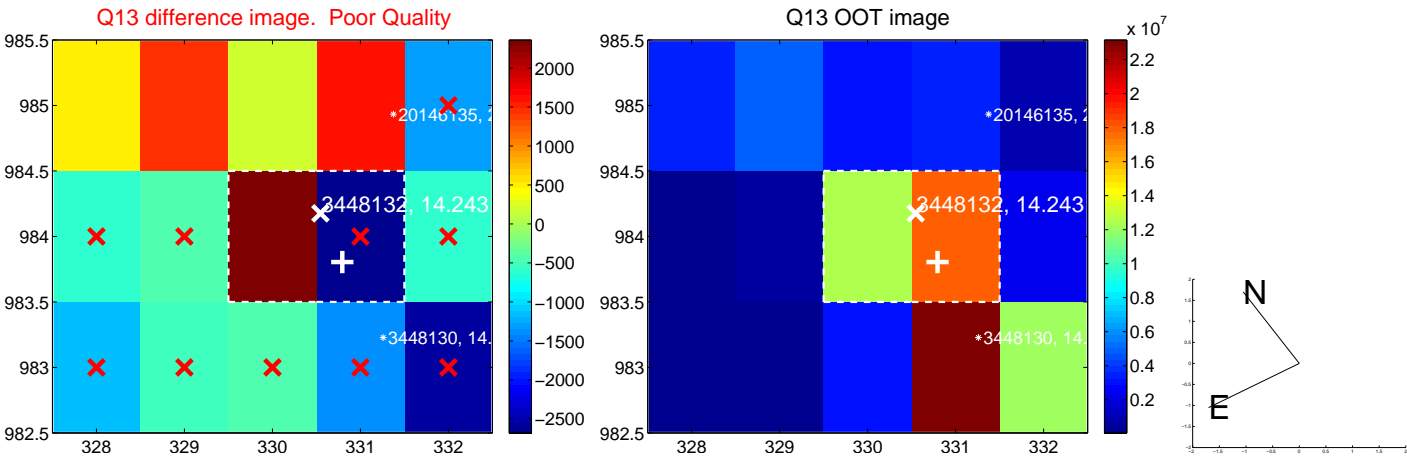
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



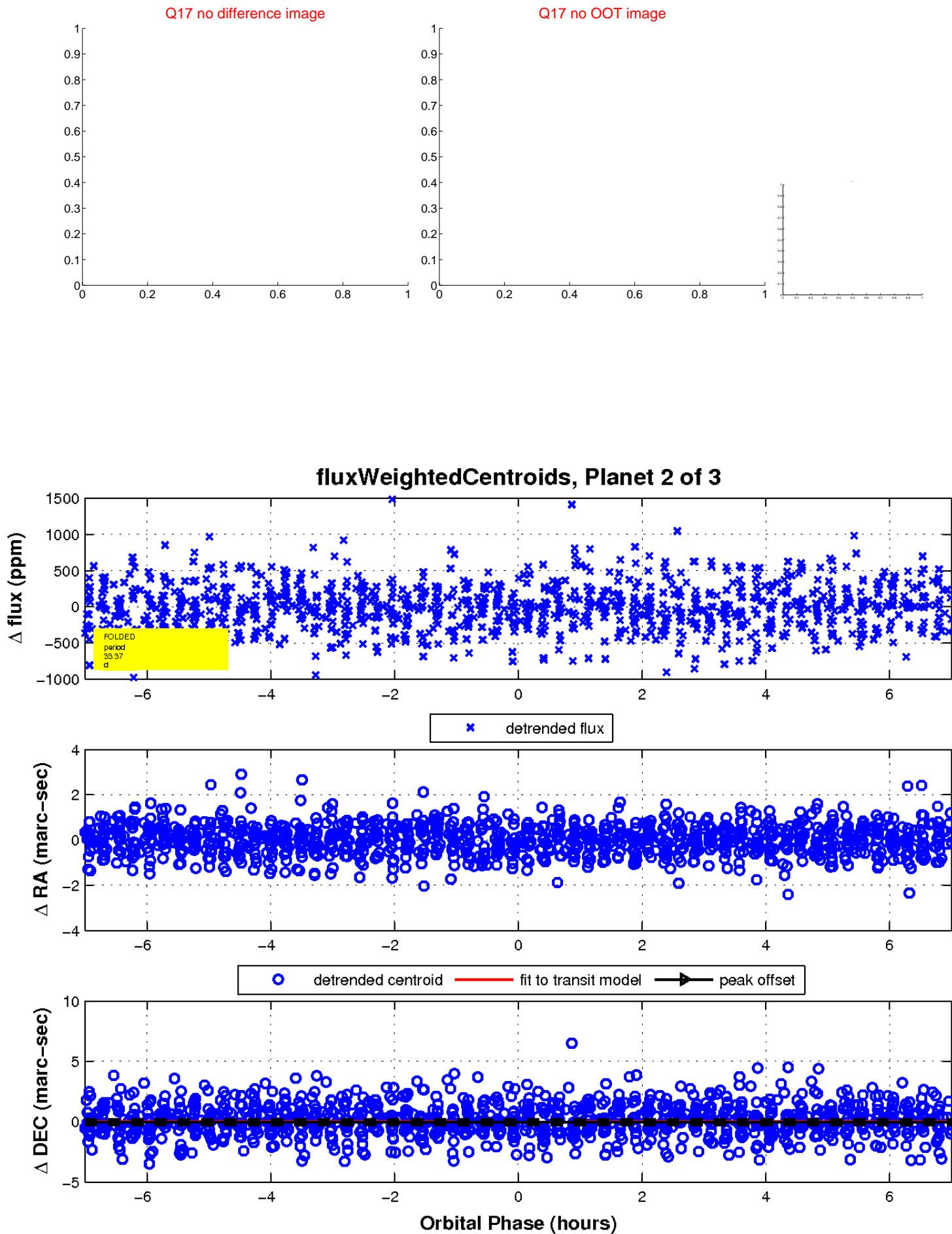
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

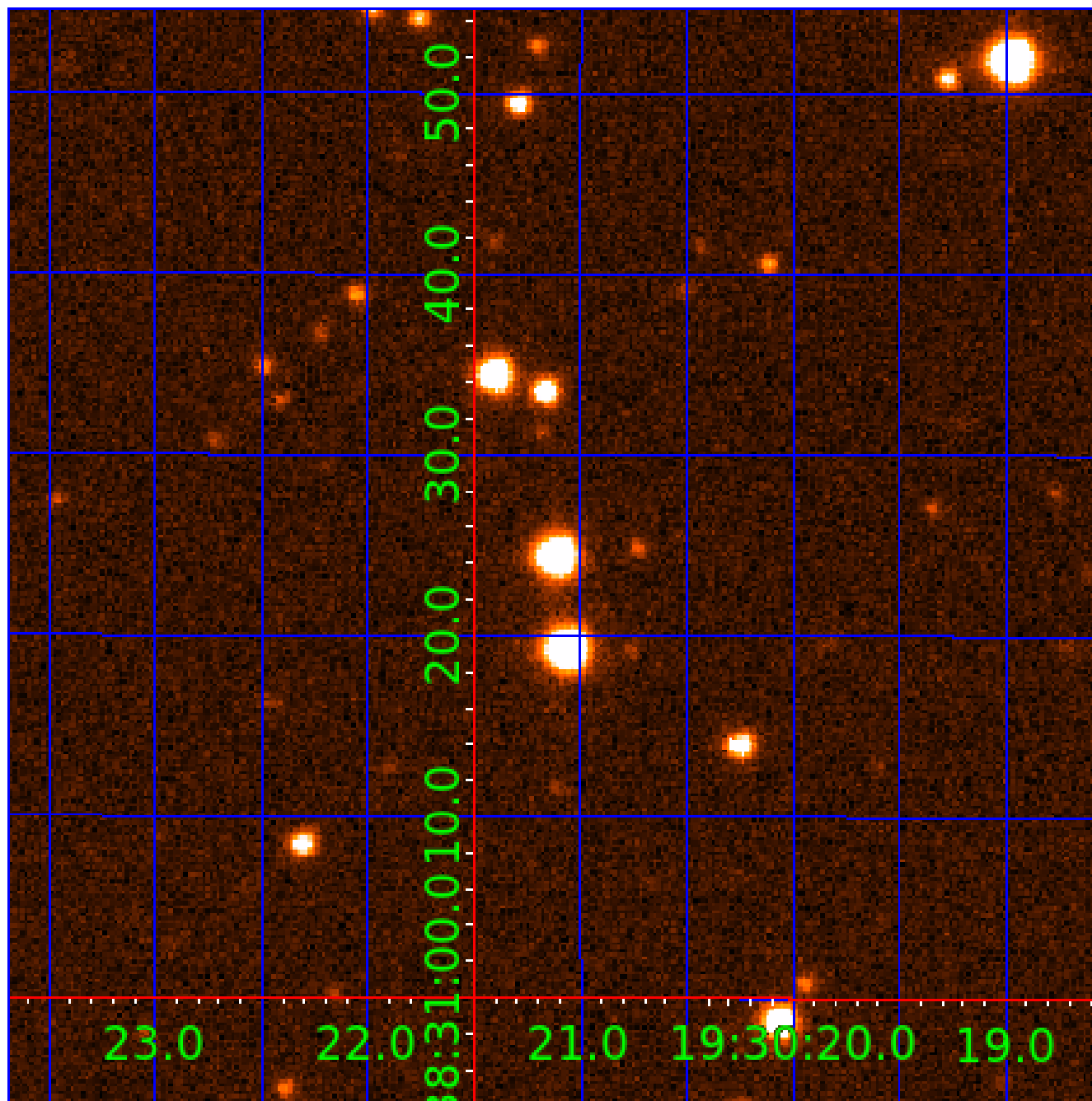


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 003448132

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})
003448132-01	OBS	No	0.513509	131.724709	27.9	3.220	8.5	8.6	1.02	6240	0.56	8540.54
003448132-02	OBS	No	33.367170	149.706268	109.6	2.336	10.6	1.3	1.02	6240	1.26	32.69
003448132-03	OBS	No	66.705051	186.401782	979.1	2.559	8.1	6.6	1.02	6240	3.32	12.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003448132-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_KIC_POS—HALO_GHOST—EPHEM_MATCH
003448132-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS—HALO_GHOST
003448132-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

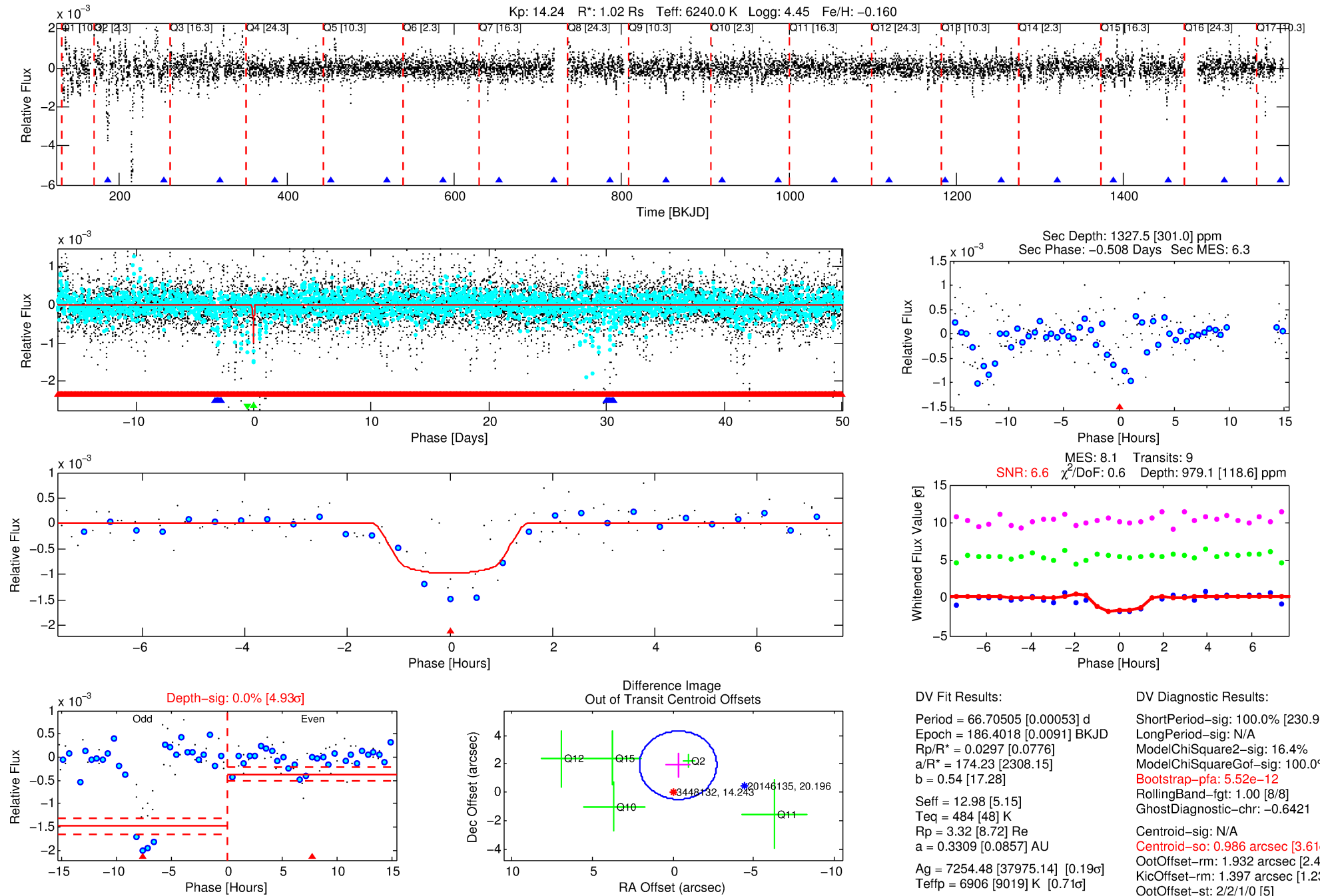
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003448132-03

No Significant Match Found

DV One-Page Summary

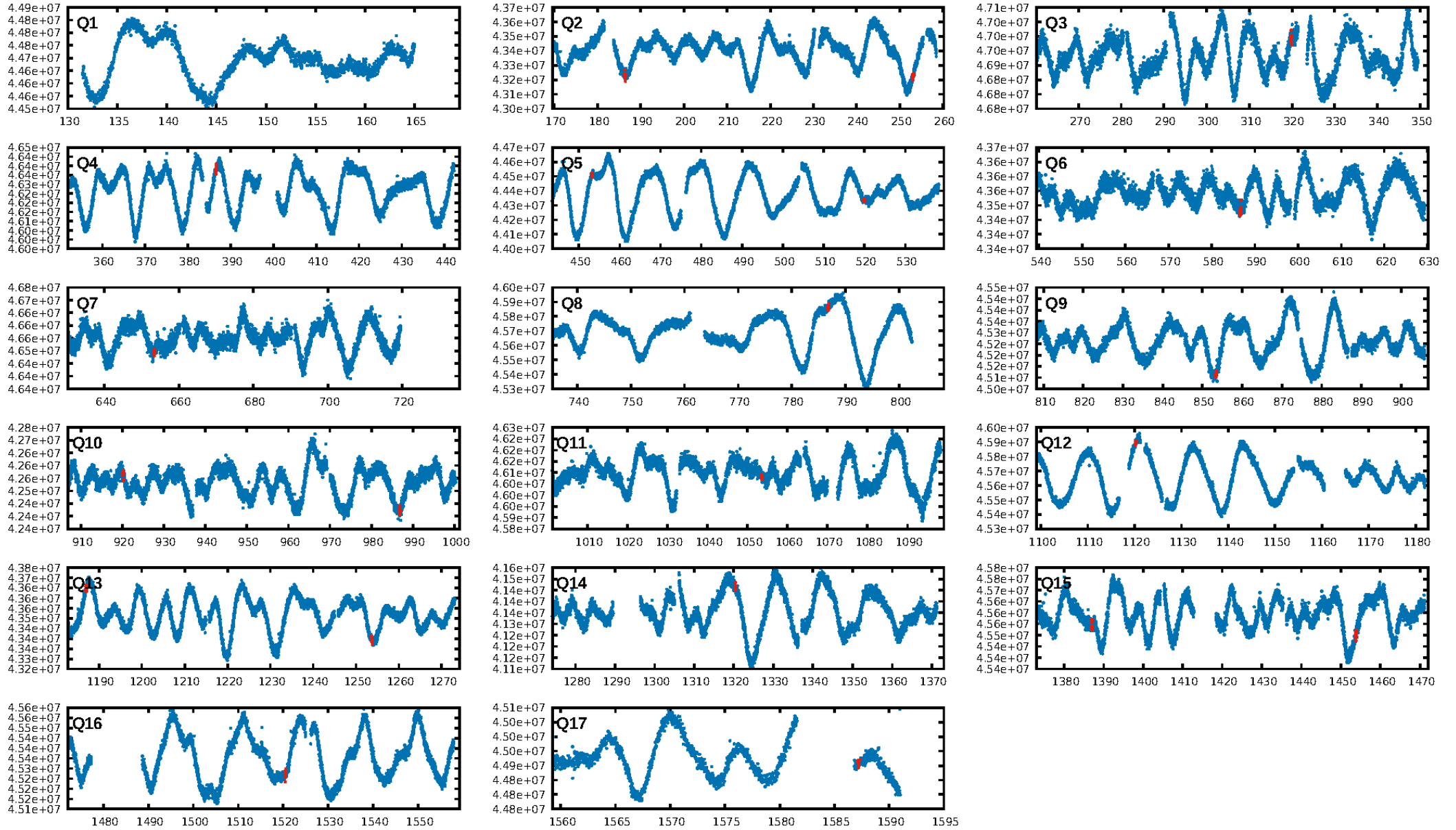
KIC: 3448132 Candidate: 3 of 3 Period: 66.705 d



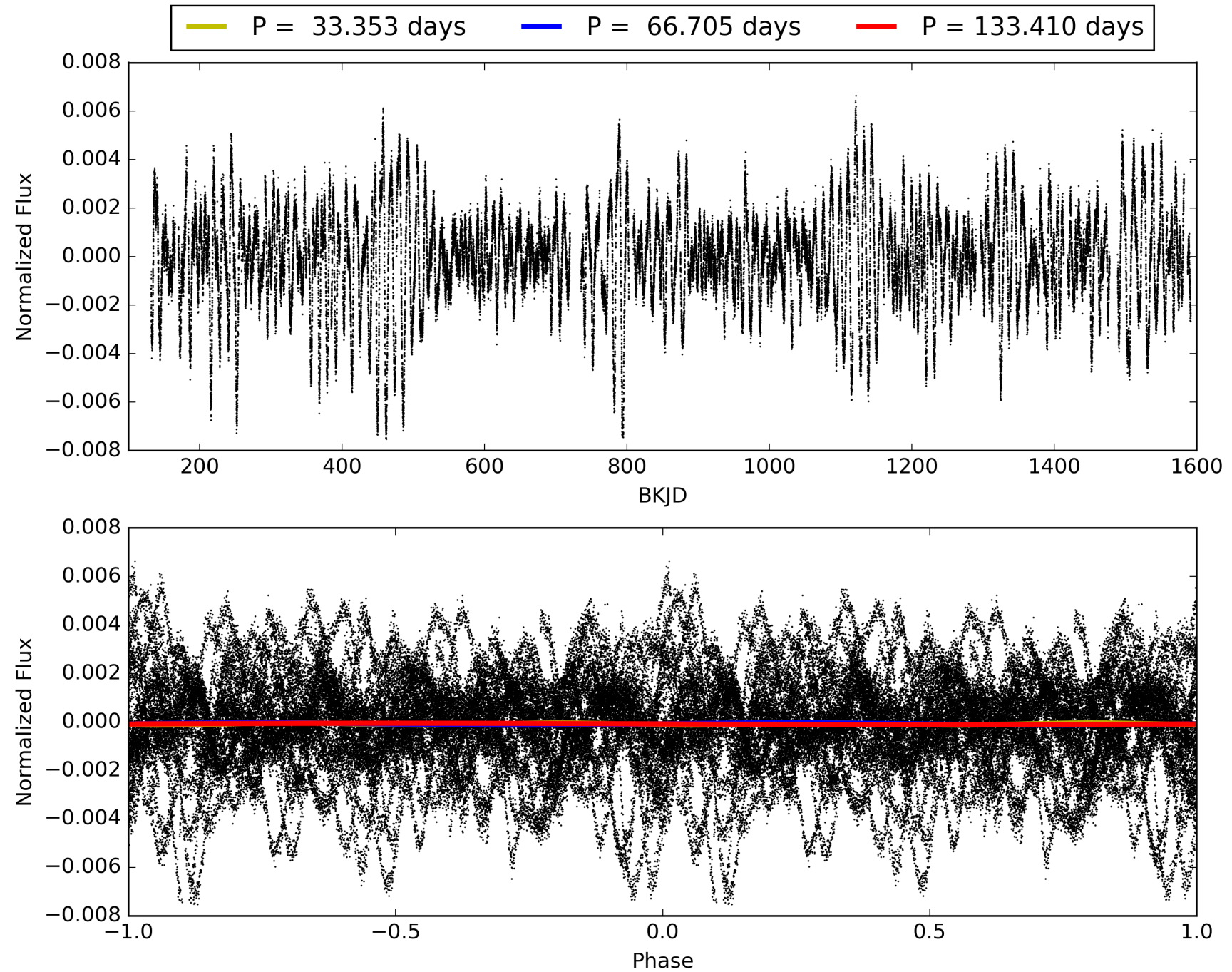
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:29:28 Z

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

TCE 003448132-03, PDC Light Curves

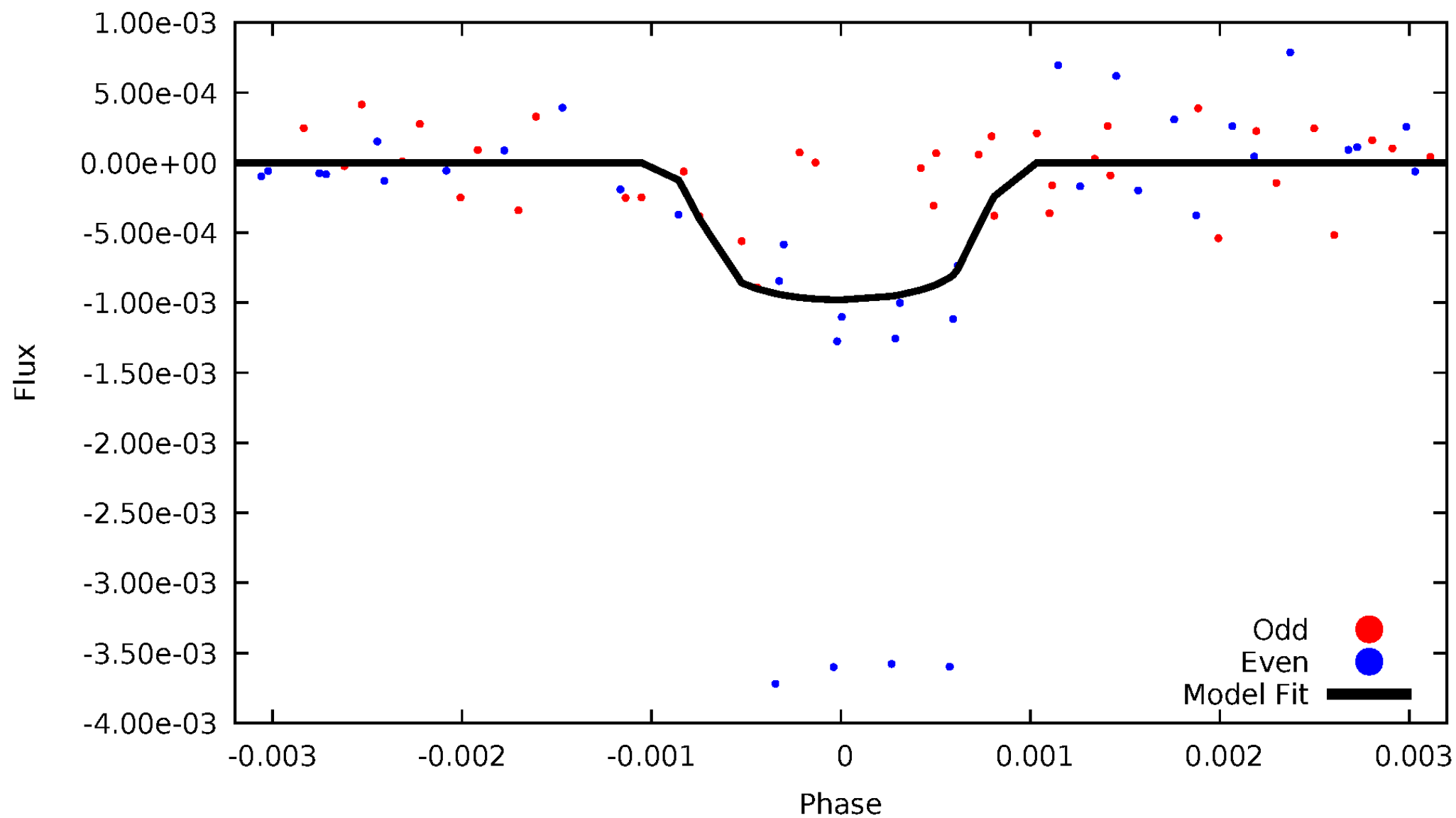


TCE 003448132-03



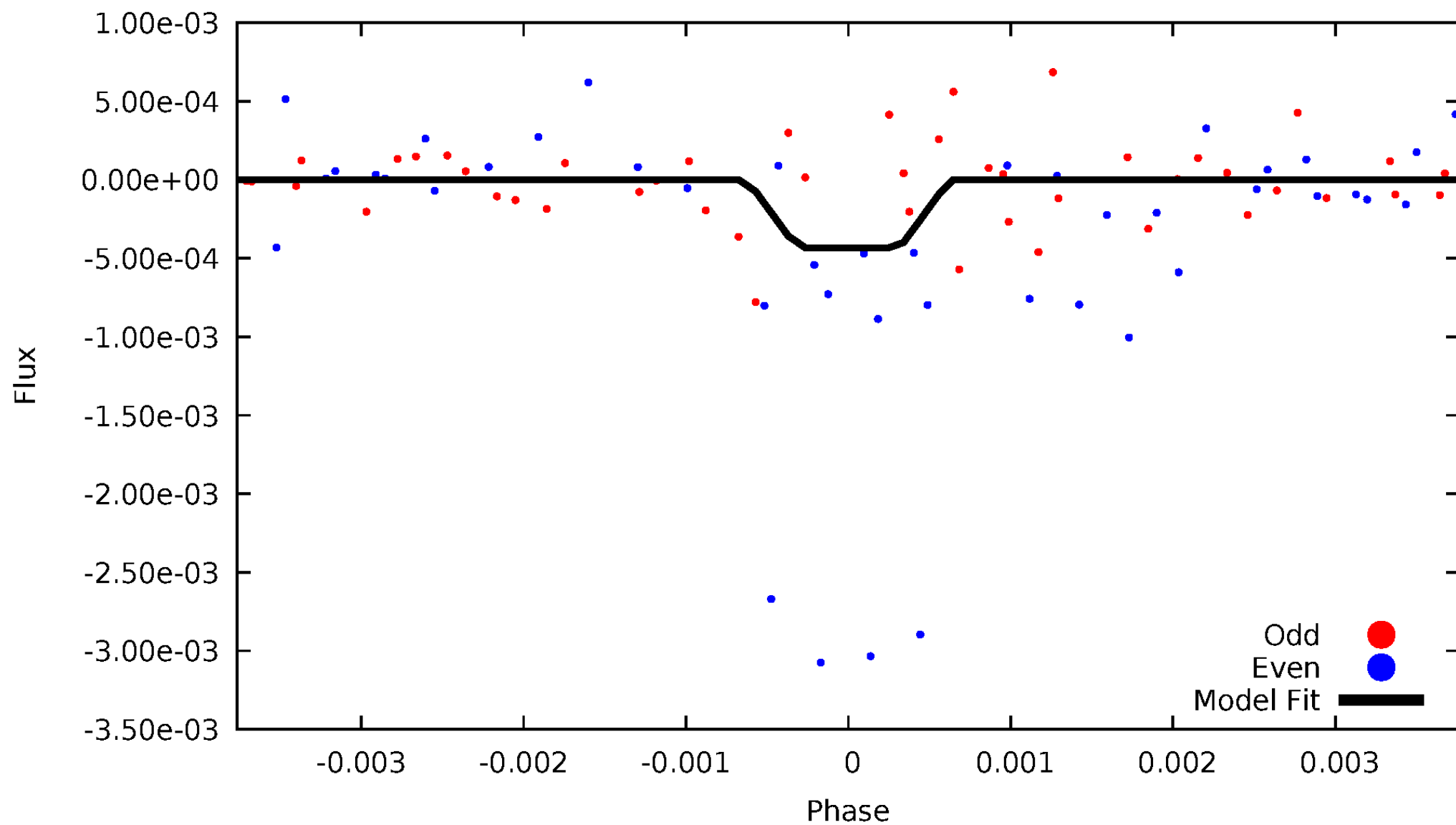
DV Odd/Even

TCE 003448132-03



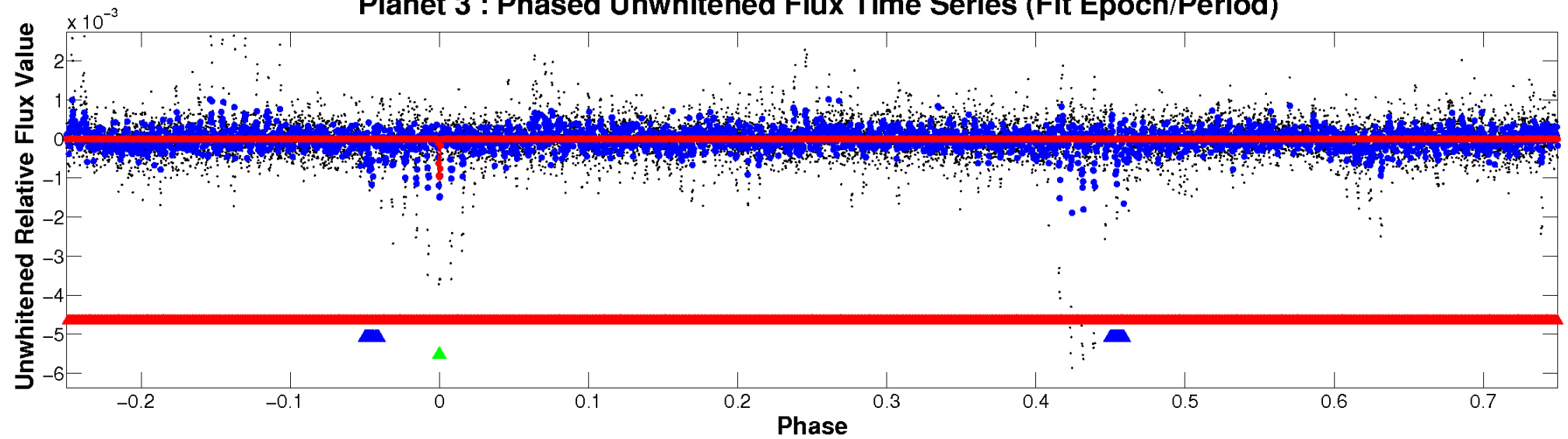
ALT Odd/Even

TCE 003448132-03

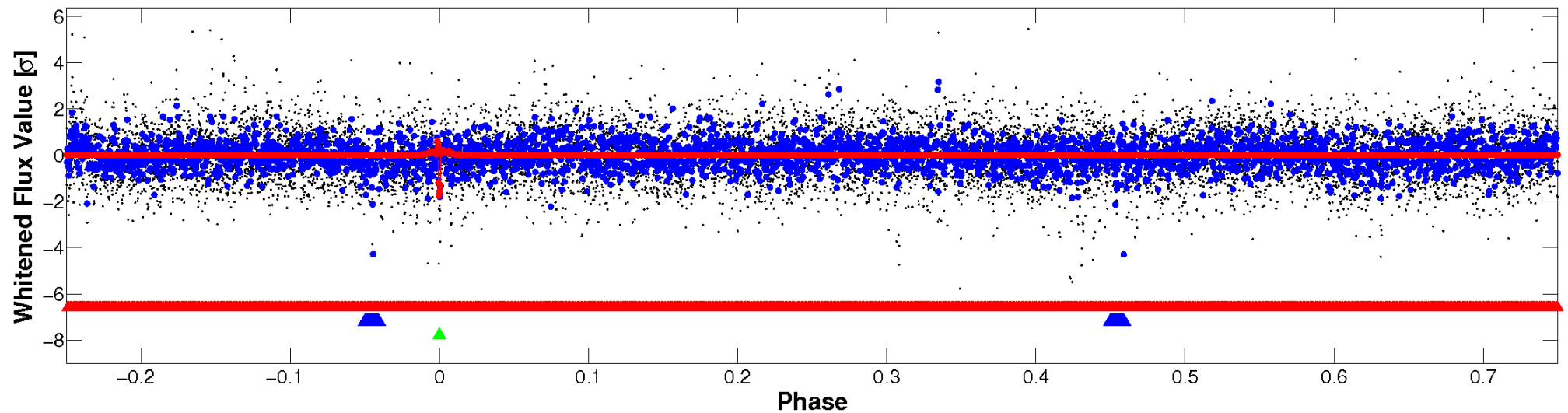


Non-Whitened Vs. Whitened Light Curve

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

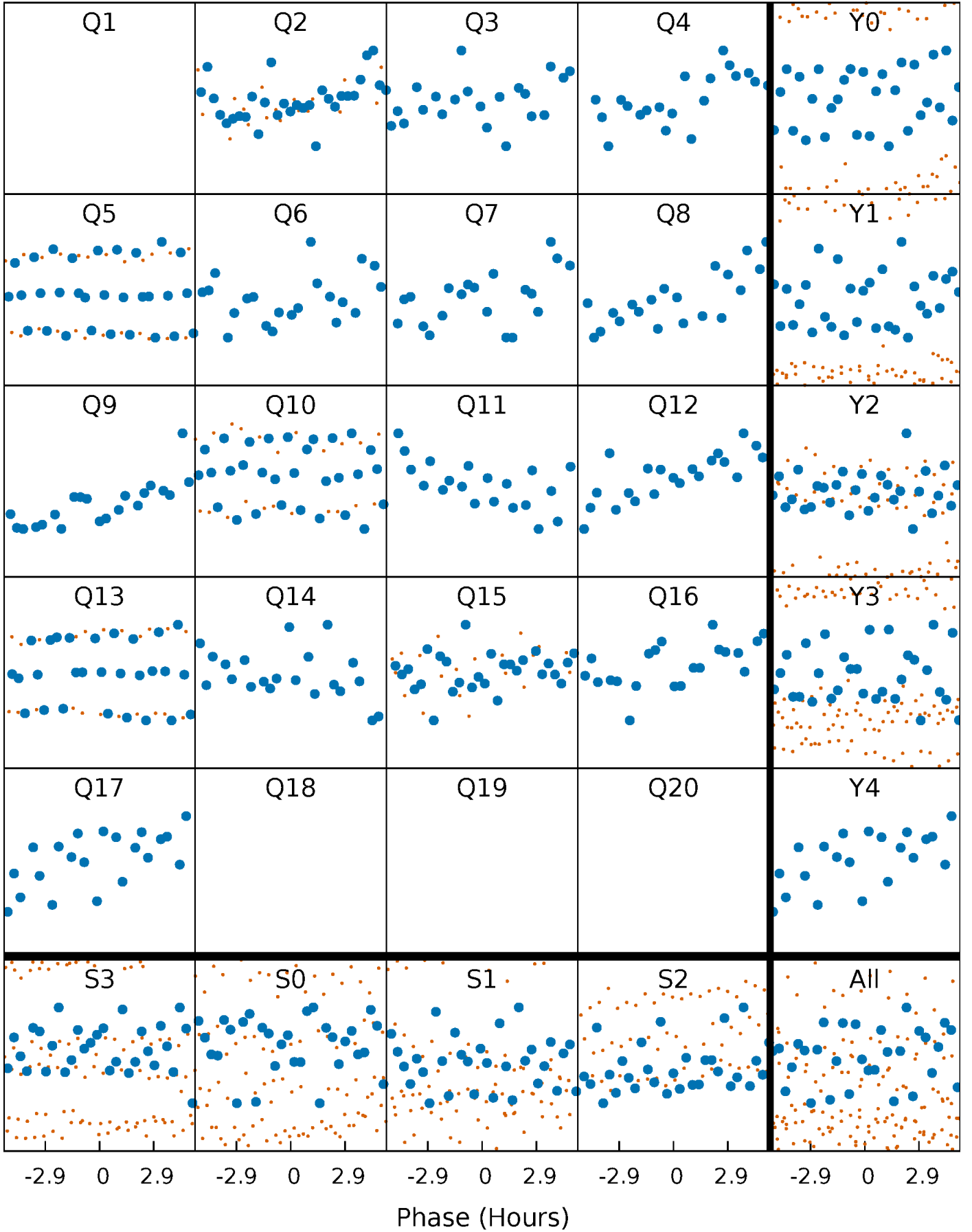


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



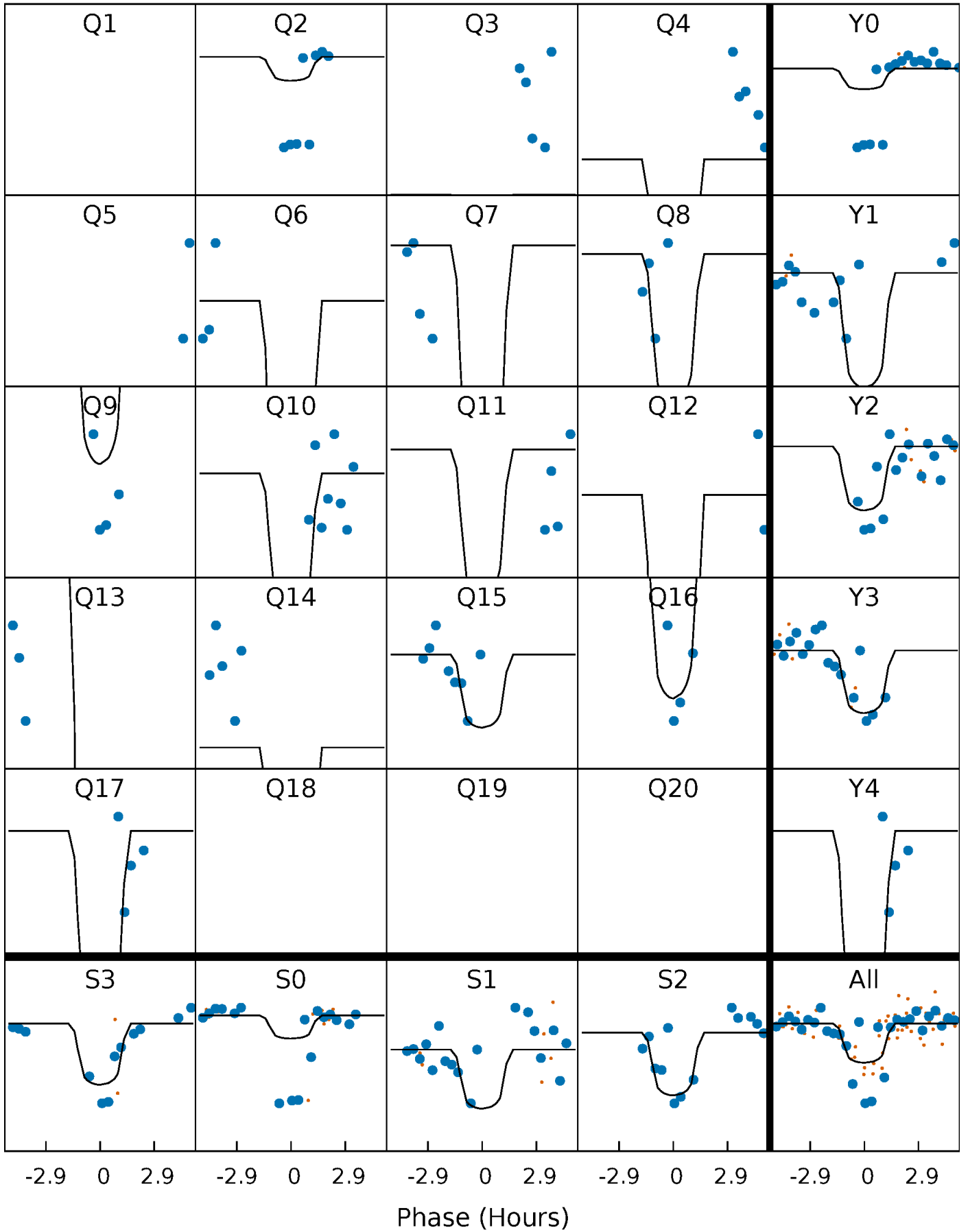
PDC Quarter-Phased Transit Curves

TCE 003448132-03 P= 66.705051 Days $T_0=186.401781$ (BKJD)



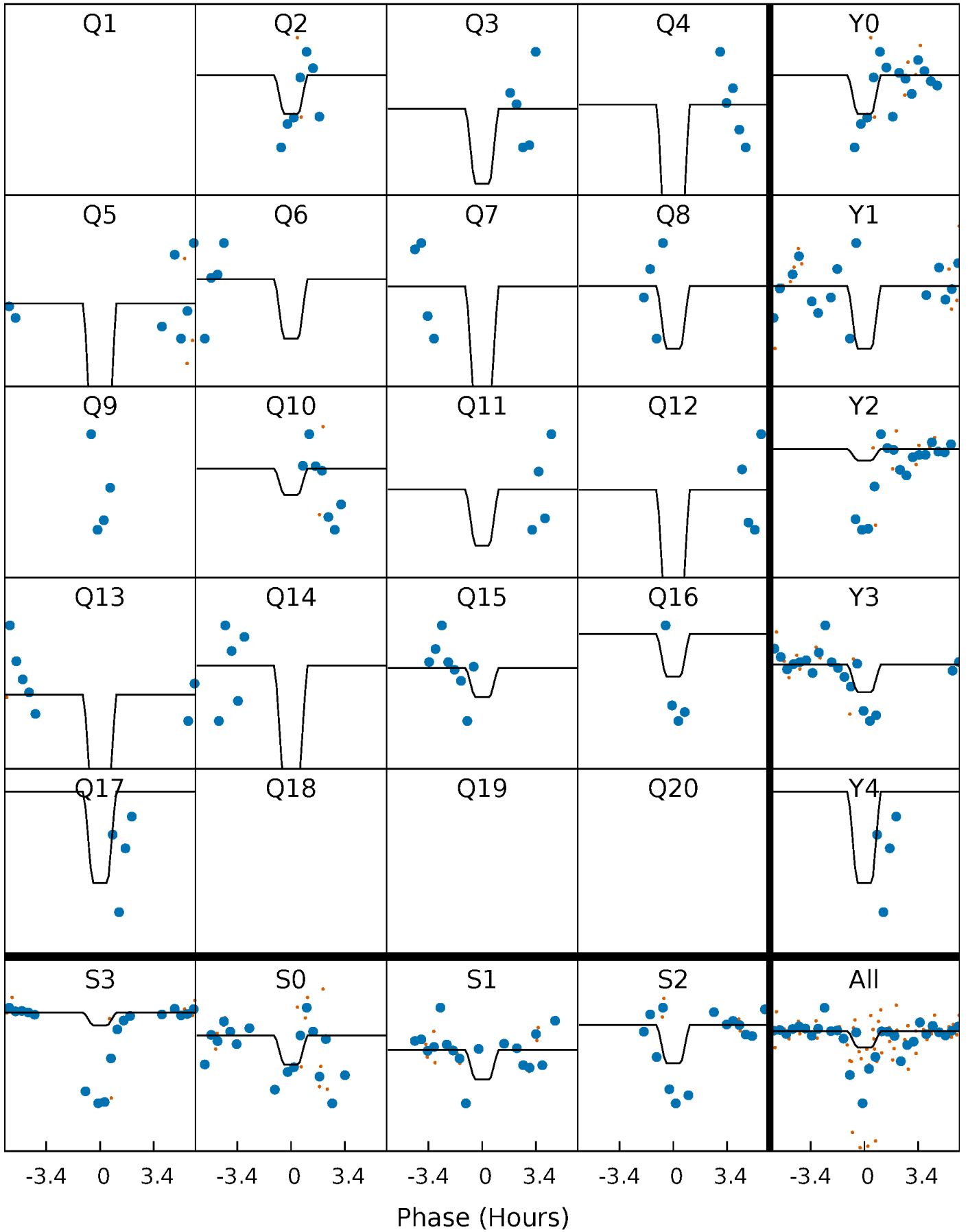
DV Quarter-Phased Transit Curves

TCE 003448132-03 P= 66.705051 Days $T_0=186.401781$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

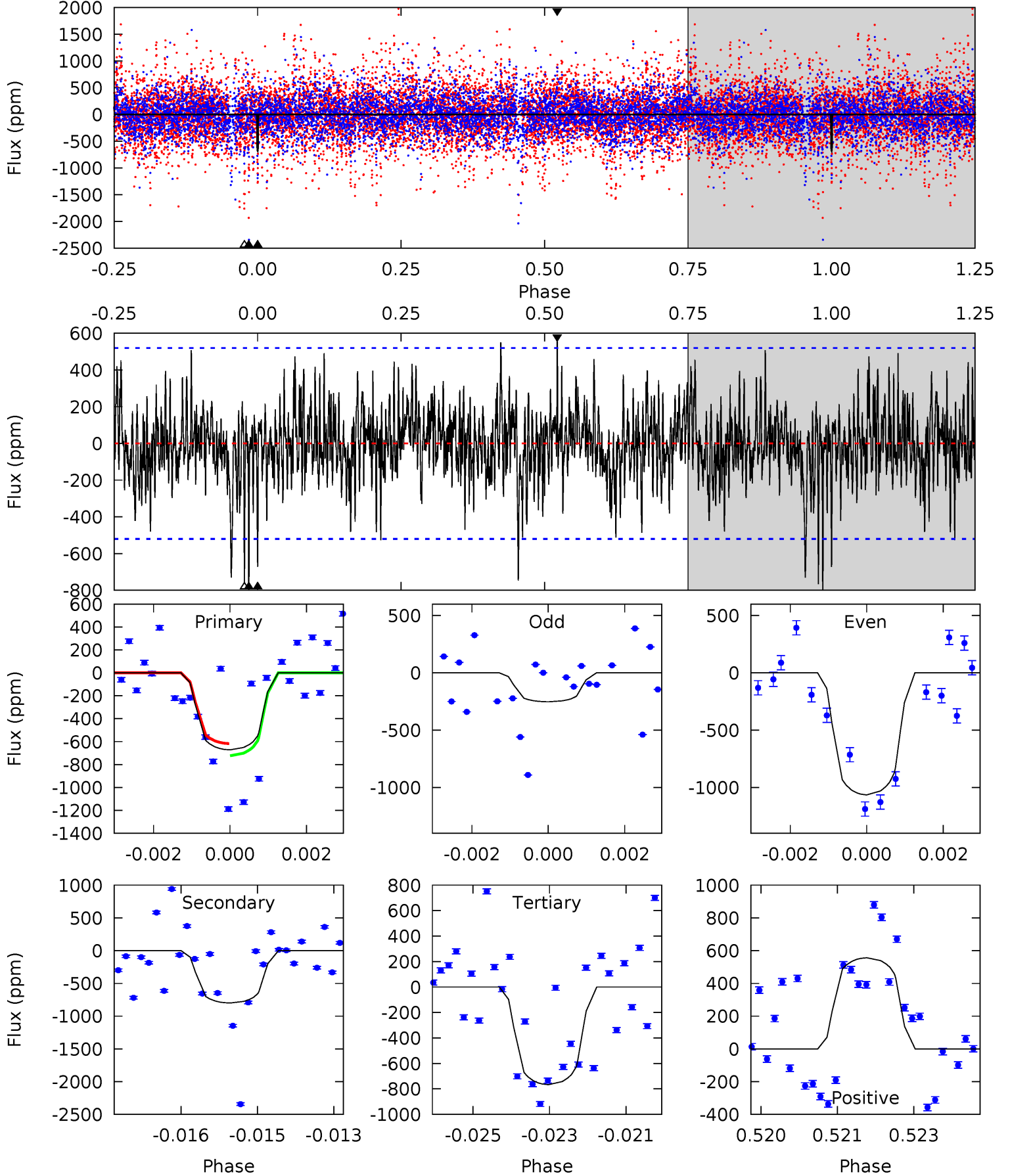
TCE 003448132-03 P= 66.704909 Days $T_0=186.413201$ (BKJD)



DV Model-Shift Uniqueness Test

003448132-03, P = 66.705051 Days, E = 119.696730 Days

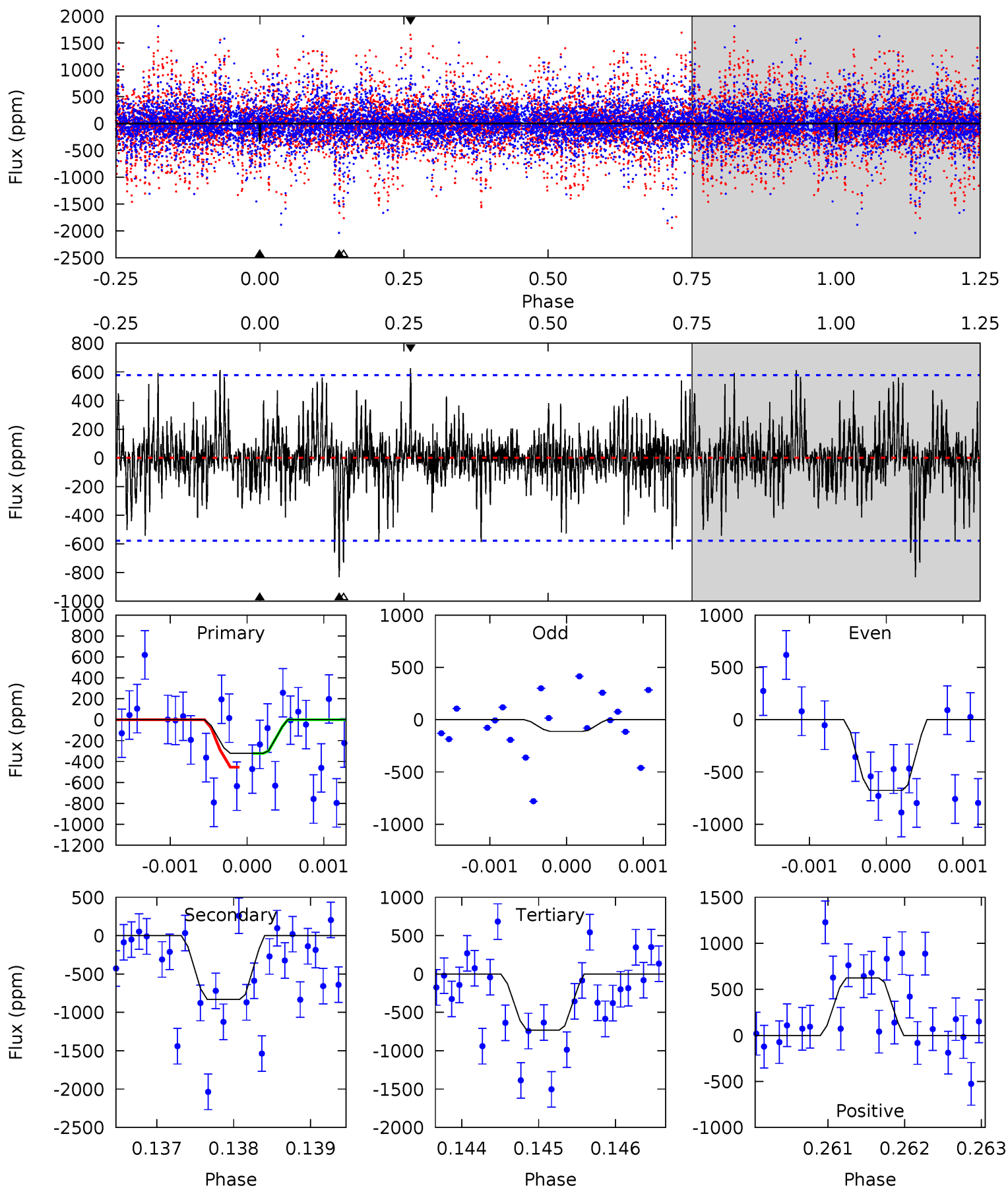
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.93	8.24	7.90	5.73	5.36	3.15	1.72	-0.97	1.19	0.35	2.51	4.01	2.36	0.41	0.55



Alt Model-Shift Uniqueness Test

003448132-03, P = 66.704909 Days, E = 119.708292 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.03	7.79	6.85	5.86	5.42	3.23	1.44	-3.83	-2.83	0.94	1.94	2.43	1.47	0.43	0.58



Stellar Parameters For KIC 003448132

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6240^{+175}_{-219}	$4.454^{+0.050}_{-0.200}$	$-0.160^{+0.250}_{-0.350}$	$1.023^{+0.320}_{-0.107}$	$1.081^{+0.144}_{-0.144}$	$1.423^{+0.390}_{-0.736}$
	+3%/-4%	+1%/-4%	+156%/-219%	+31%/-10%	+13%/-13%	+27%/-52%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 003448132-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-800 ± 97	$7.71^{+7.33}_{-5.22}$	691^{+45}_{-33}	4322^{+2911}_{-904}	820^{+7137}_{-624}
Alt.	-831 ± 107	$7.15^{+6.82}_{-4.91}$	691^{+48}_{-36}	4478^{+3456}_{-961}	958^{+9537}_{-711}

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 $A_{obs} \gg 1.0$

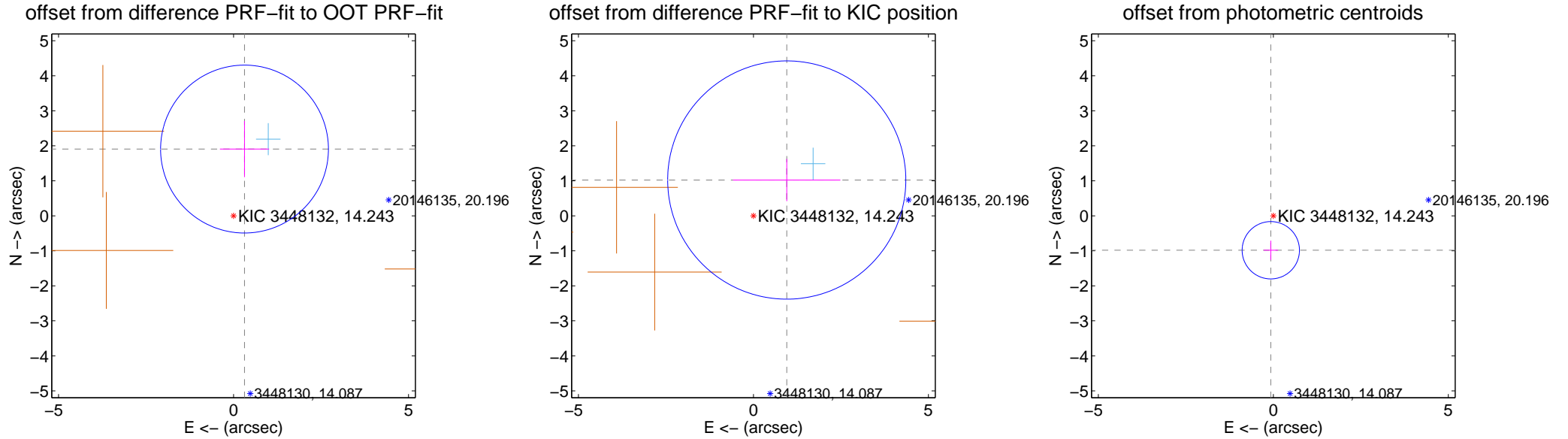
DV Centroid Data

Supplemental centroid analysis for 003448132-03. Kepler magnitude: 14.24. Transit SNR 6.57

There are 1 quarters with good PRF difference image offsets

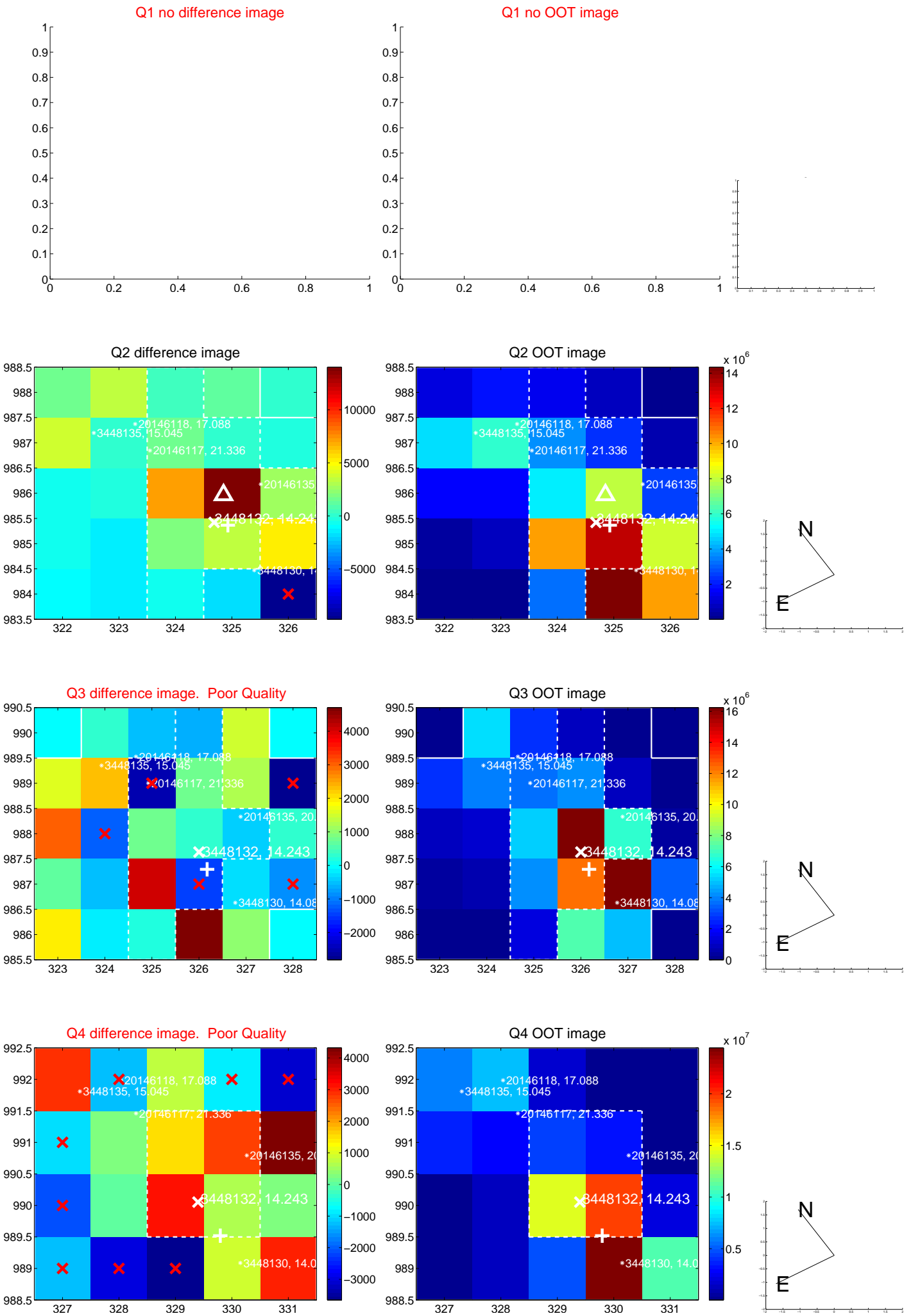
The direct PRF centroid is offset from the target star catalog position by about 1.61 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.932 ± 0.799	2.42	-0.313 ± 0.702	1.907 ± 0.802
PRF-fit source offset from KIC position	1.397 ± 1.134	1.23	-0.952 ± 1.534	1.022 ± 0.602
photometric centroid source offset	0.99 ± 0.27	3.61	0.07 ± 0.21	-0.98 ± 0.27

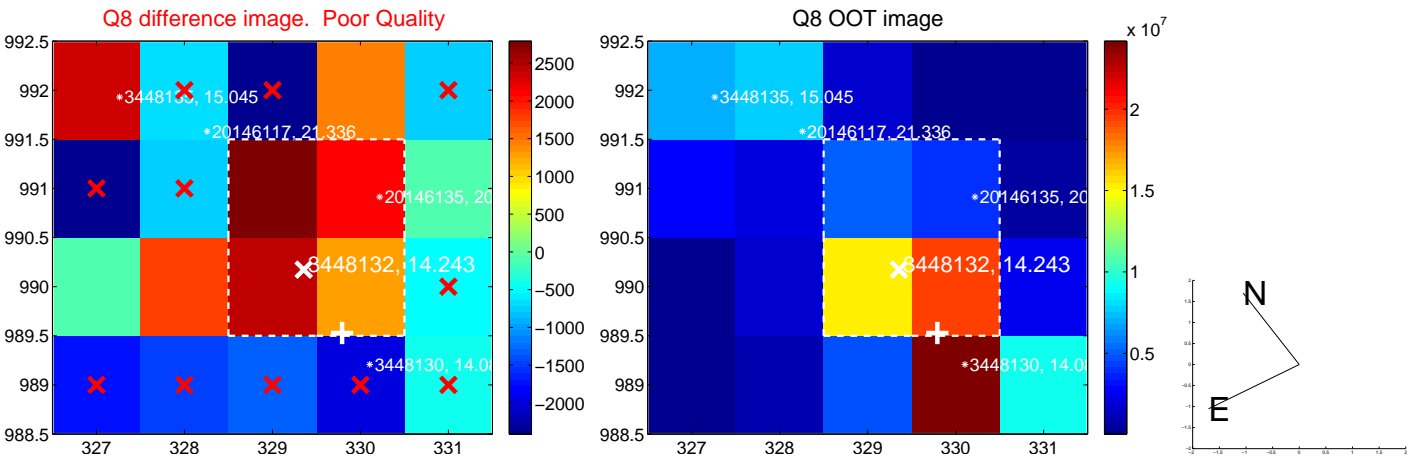
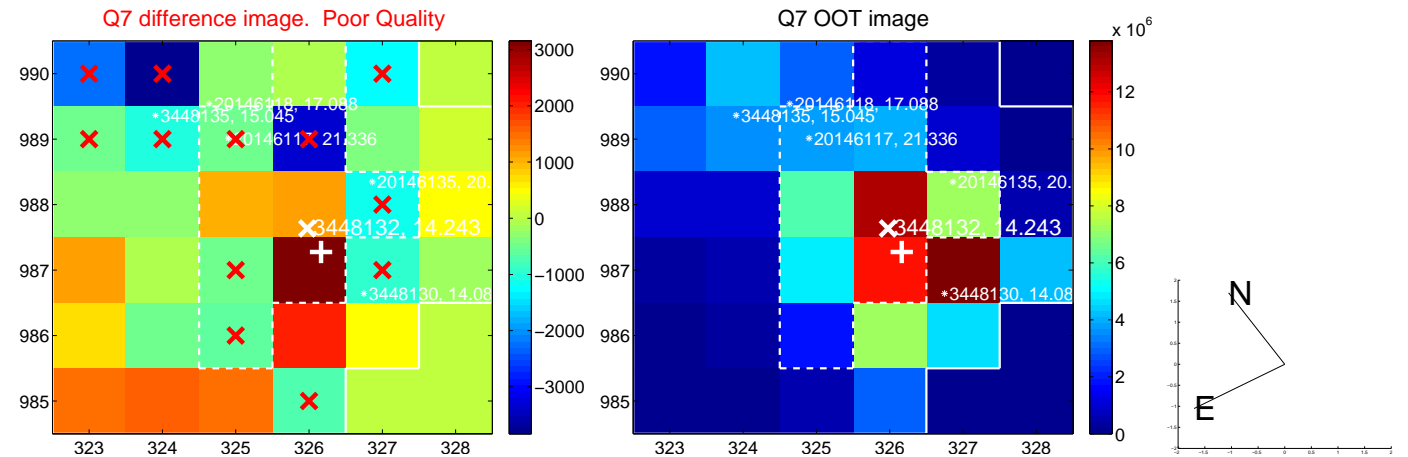
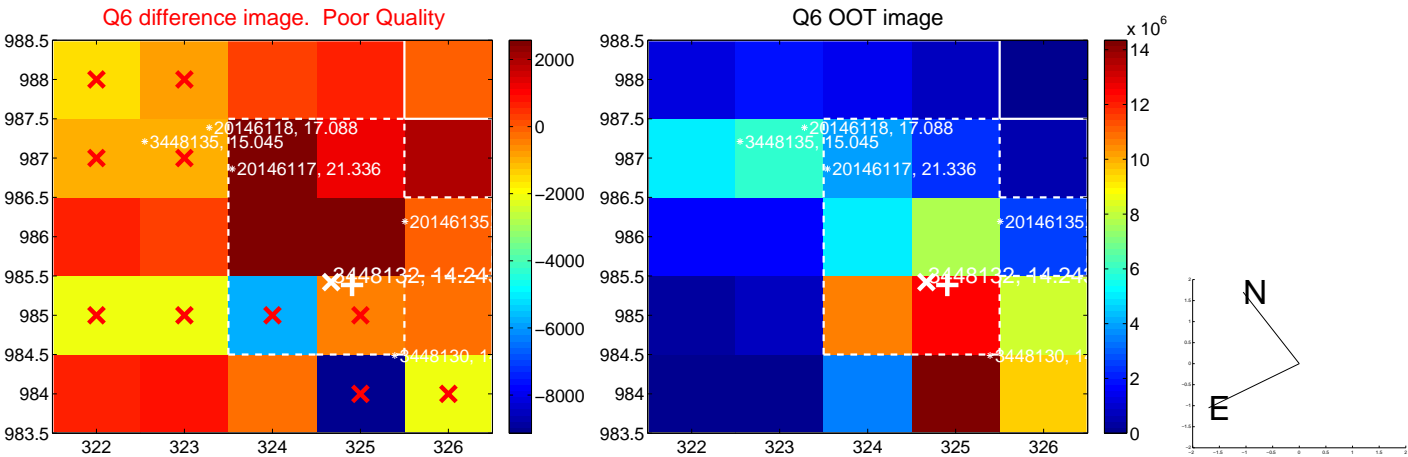
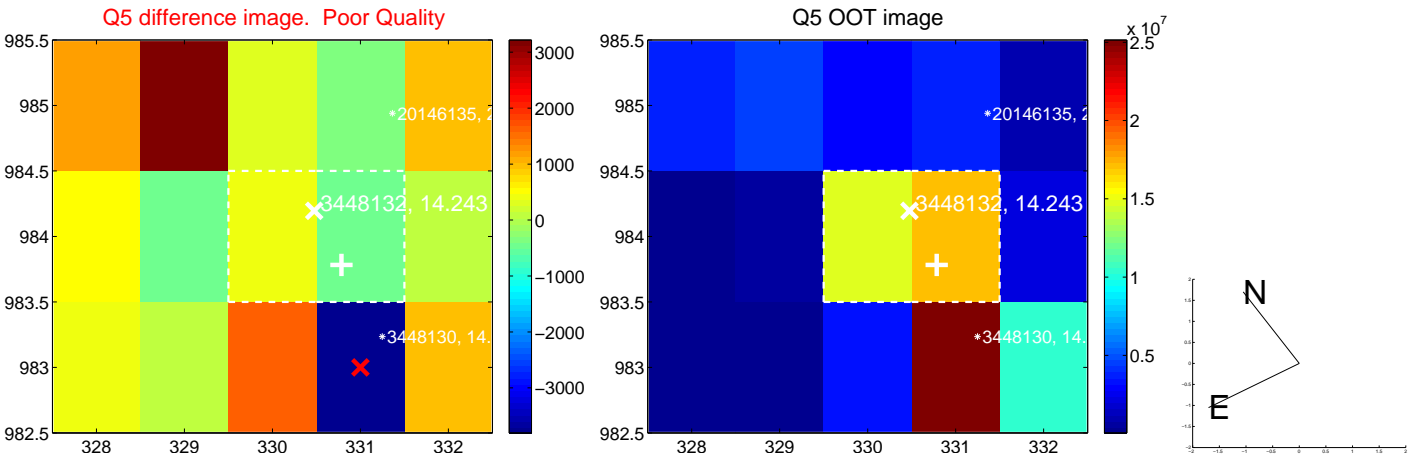


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

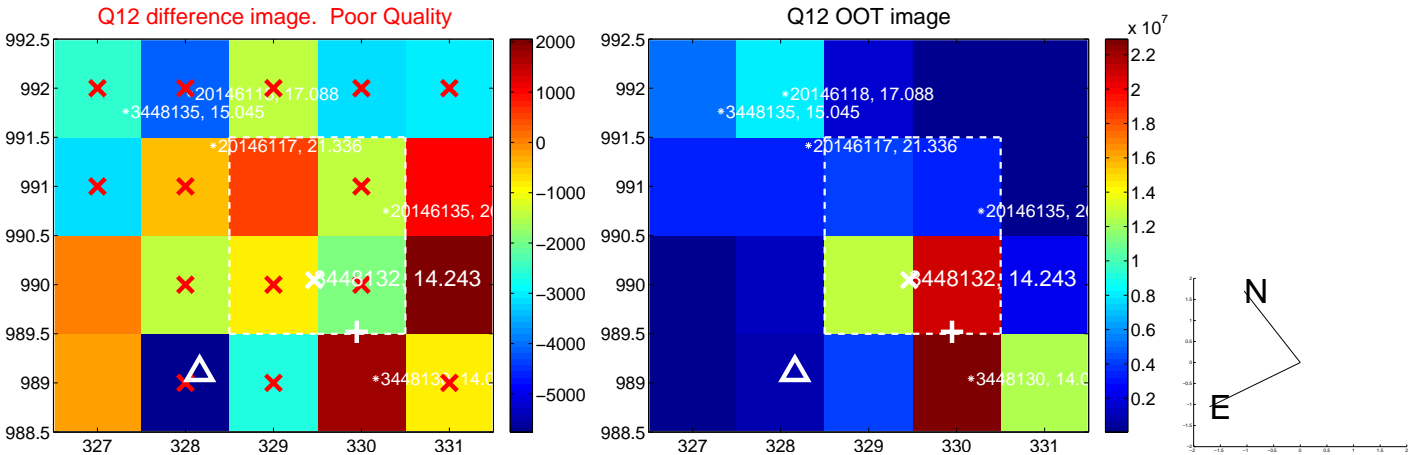
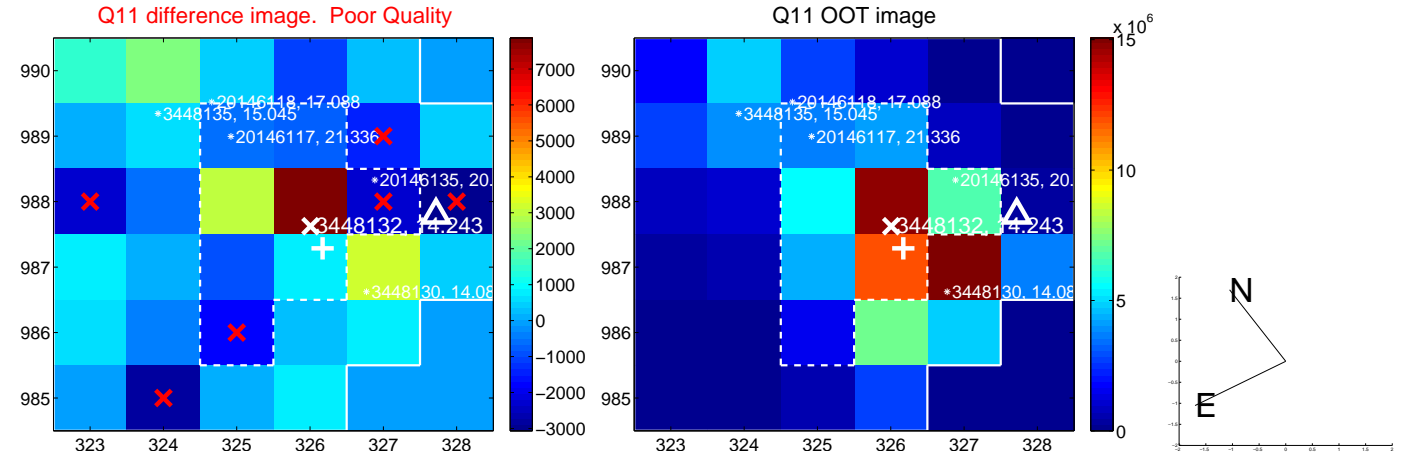
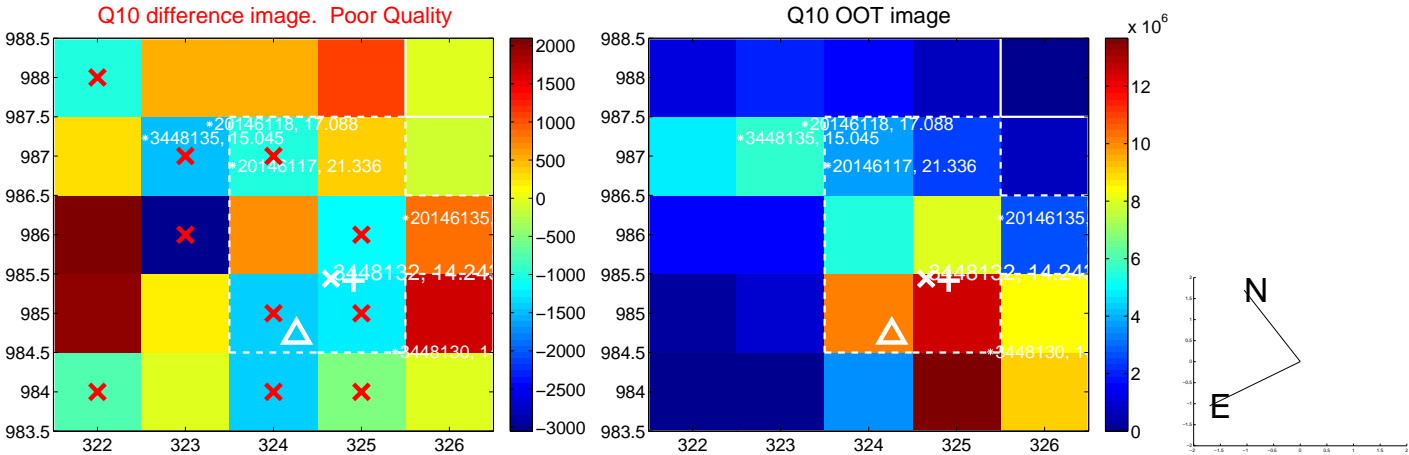
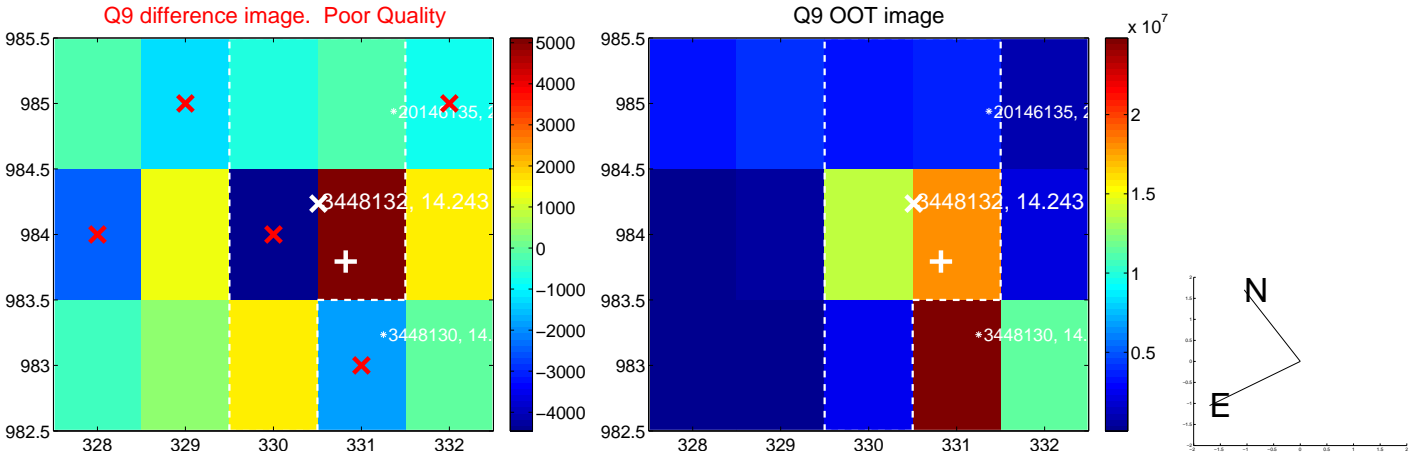
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



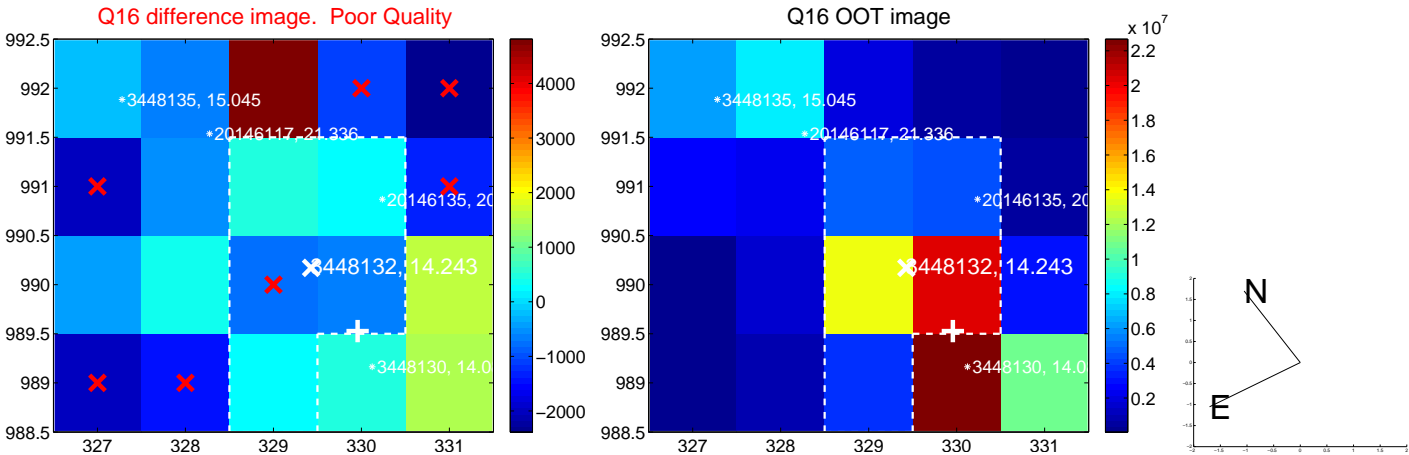
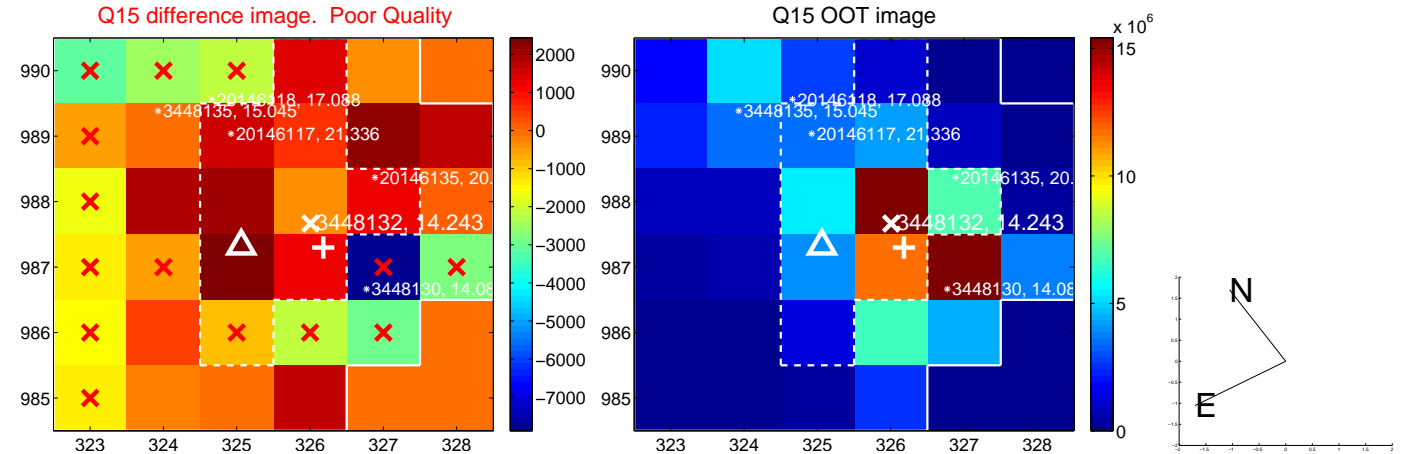
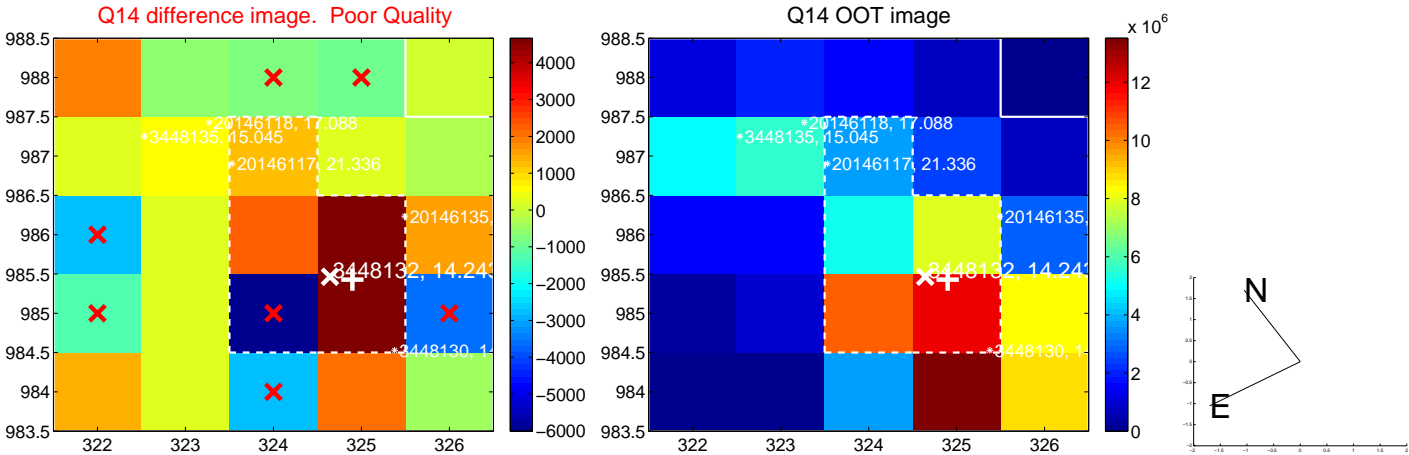
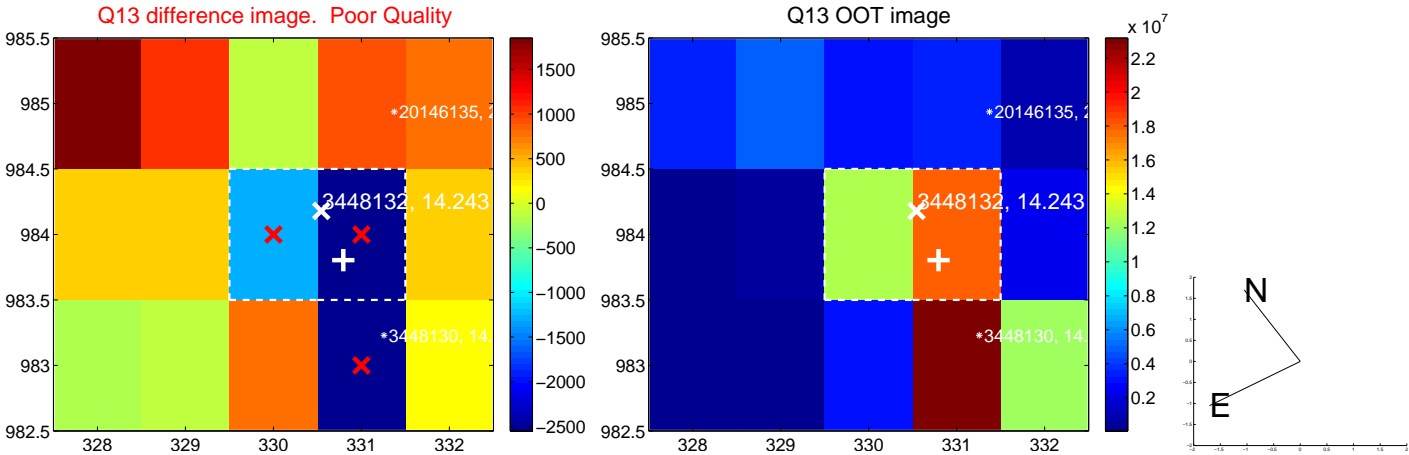
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



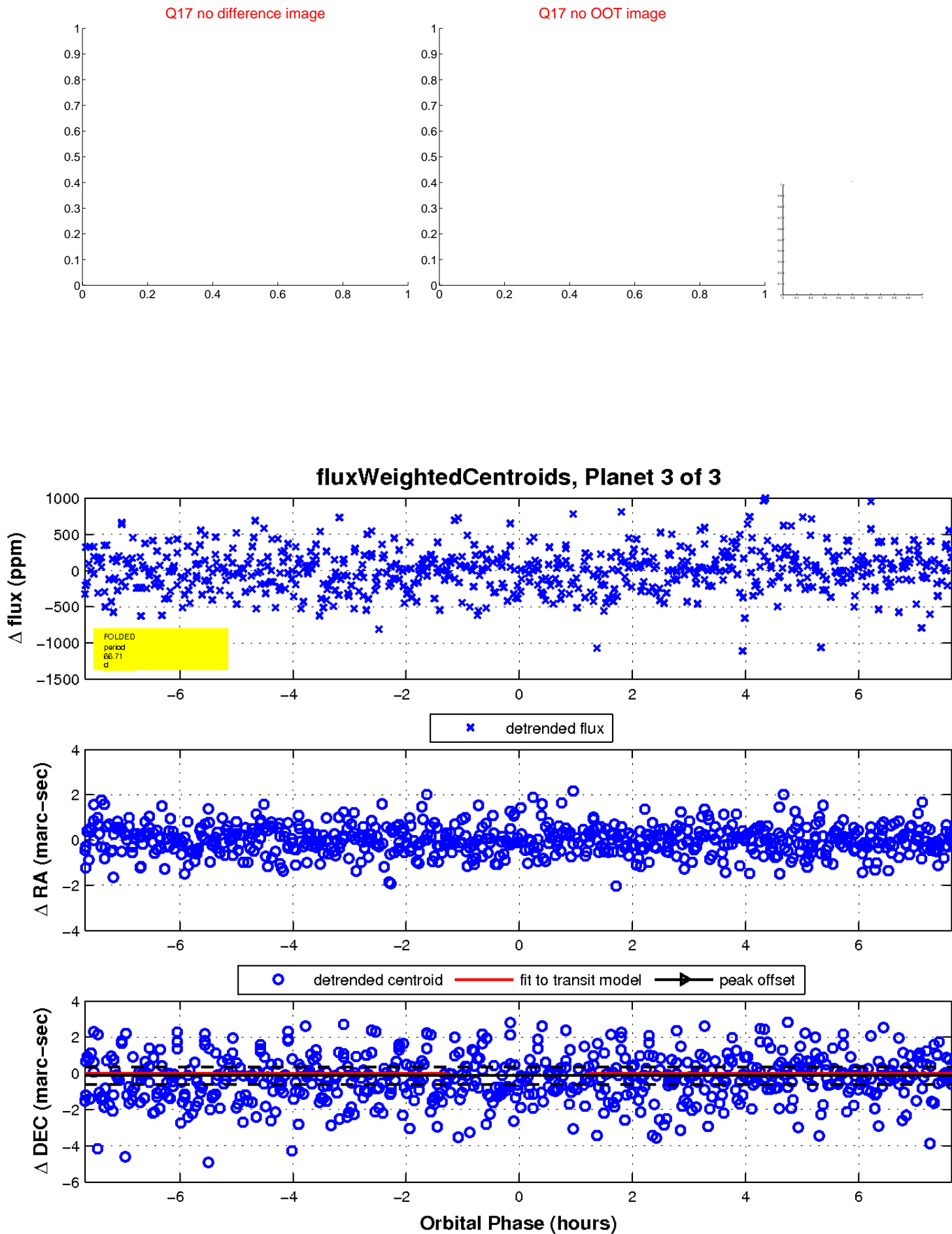
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

