

KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
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007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

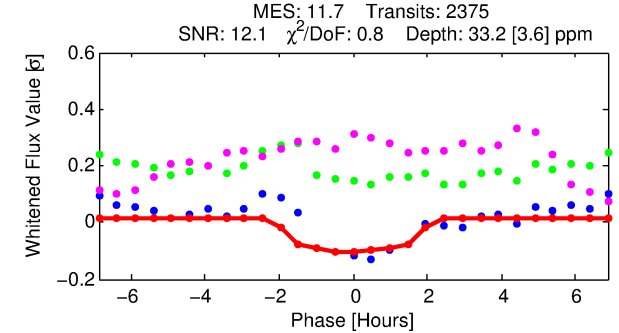
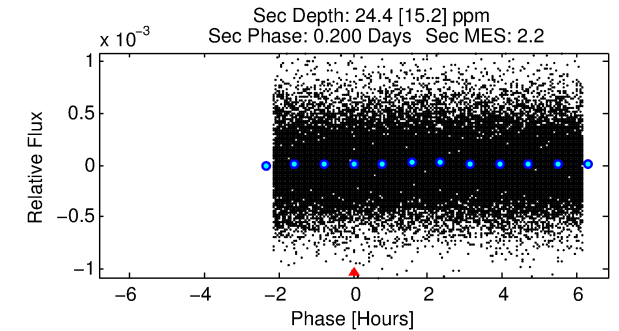
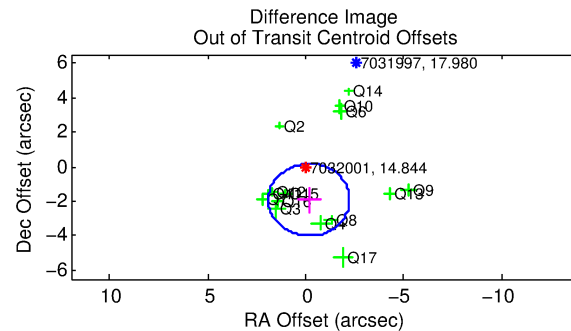
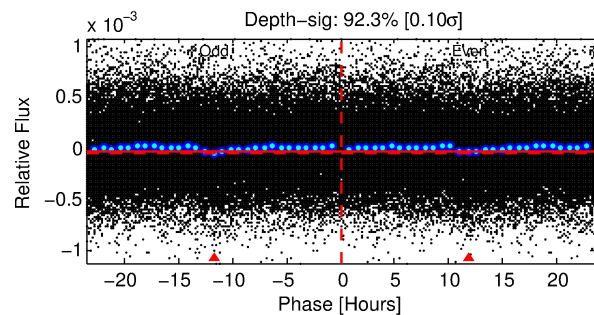
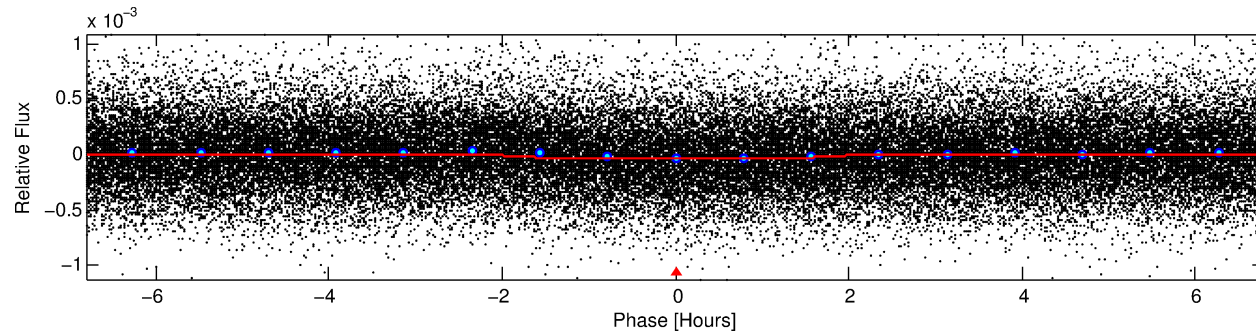
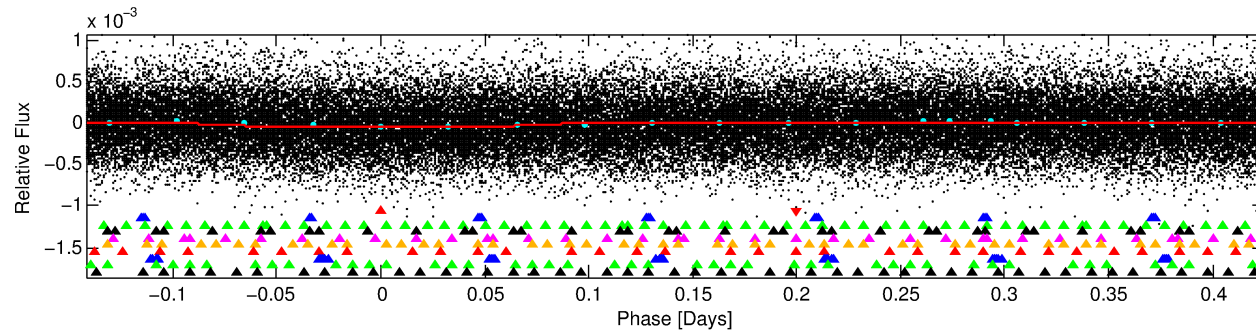
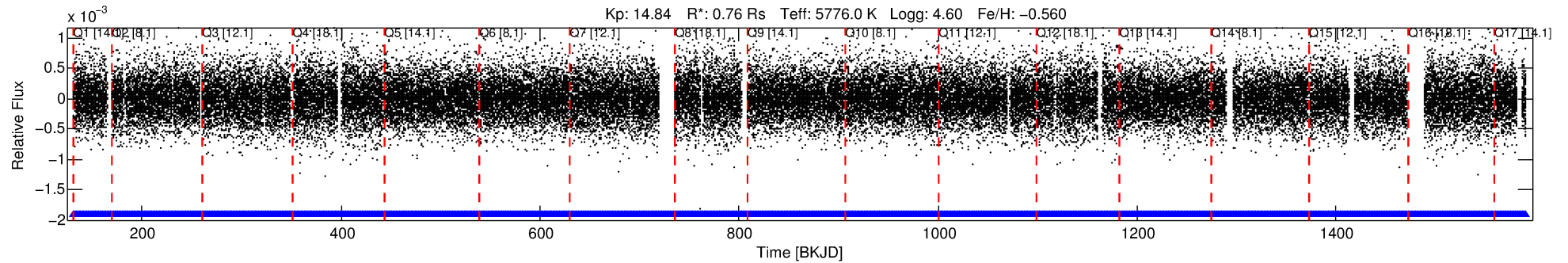
Ephemeris Match Information For 007032001-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (″)	ΔRow	ΔCol	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007032001-01	7032001	RR-Lyr-pri	7198959	1:1	919.0	157	-170	7.86	14.84	18888.00	Direct-PRF	0	2.85	18.84

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. ΔRow and ΔCol are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ 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: 7032001 Candidate: 1 of 10 Period: 0.567 d
KOI: K04518.01 Corr: 0.878



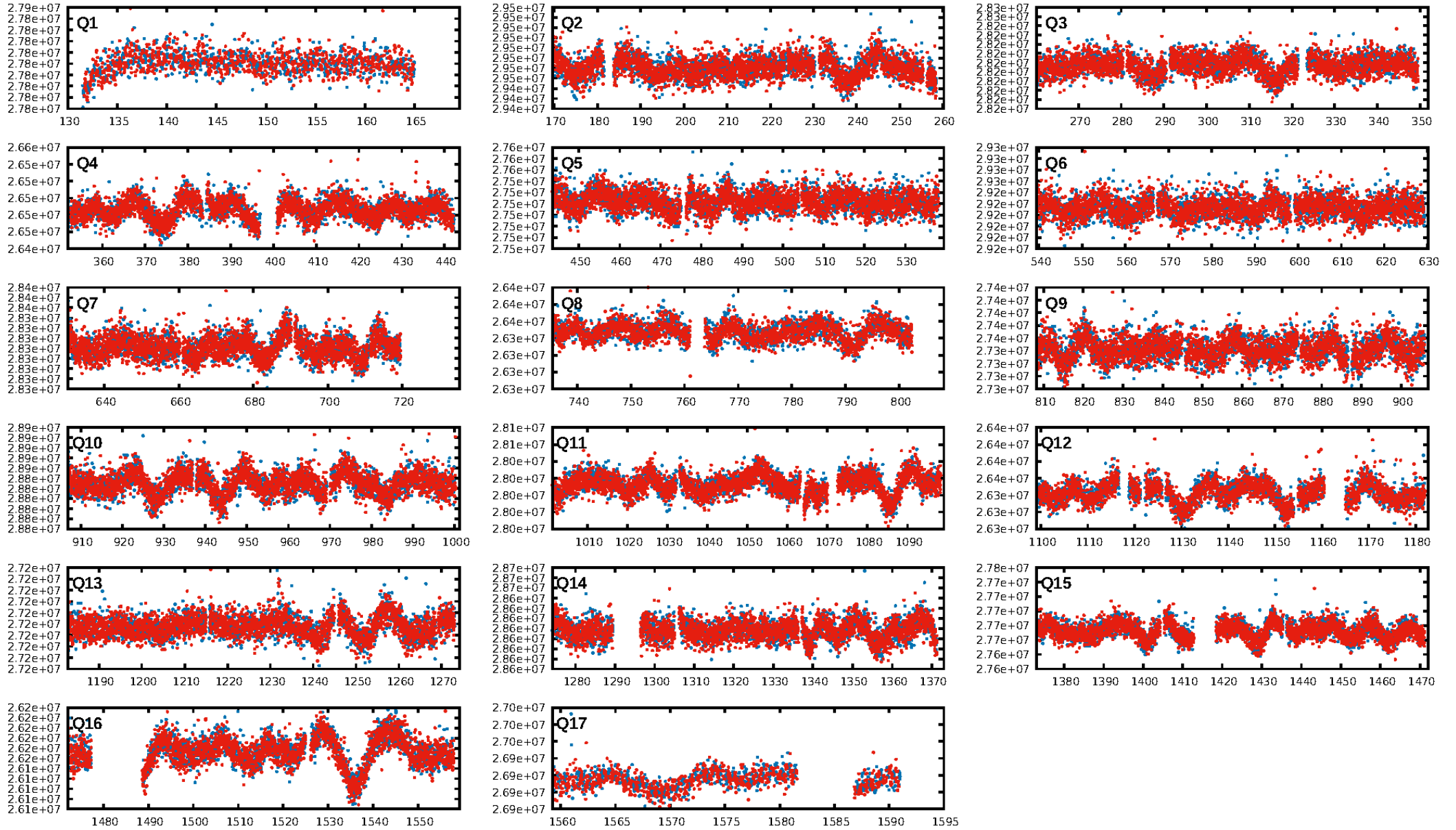
DV Fit Results:

Period = 0.56678 [0.00001] d
Epoch = 131.8266 [0.0035] BKJD
Rp/R* = 0.0057 [0.0050]
a/R* = 1.14 [1.09]
b = 0.75 [2.55]
Seff = 3608.22 [1139.74]
Teff = 1976 [156] K
Rp = 0.47 [0.43] Re
a = 0.0126 [0.0026] AU
Ag = 9.46 [17.77] [0.48 σ]
Teffp = 5358 [2489] K [1.36 σ]

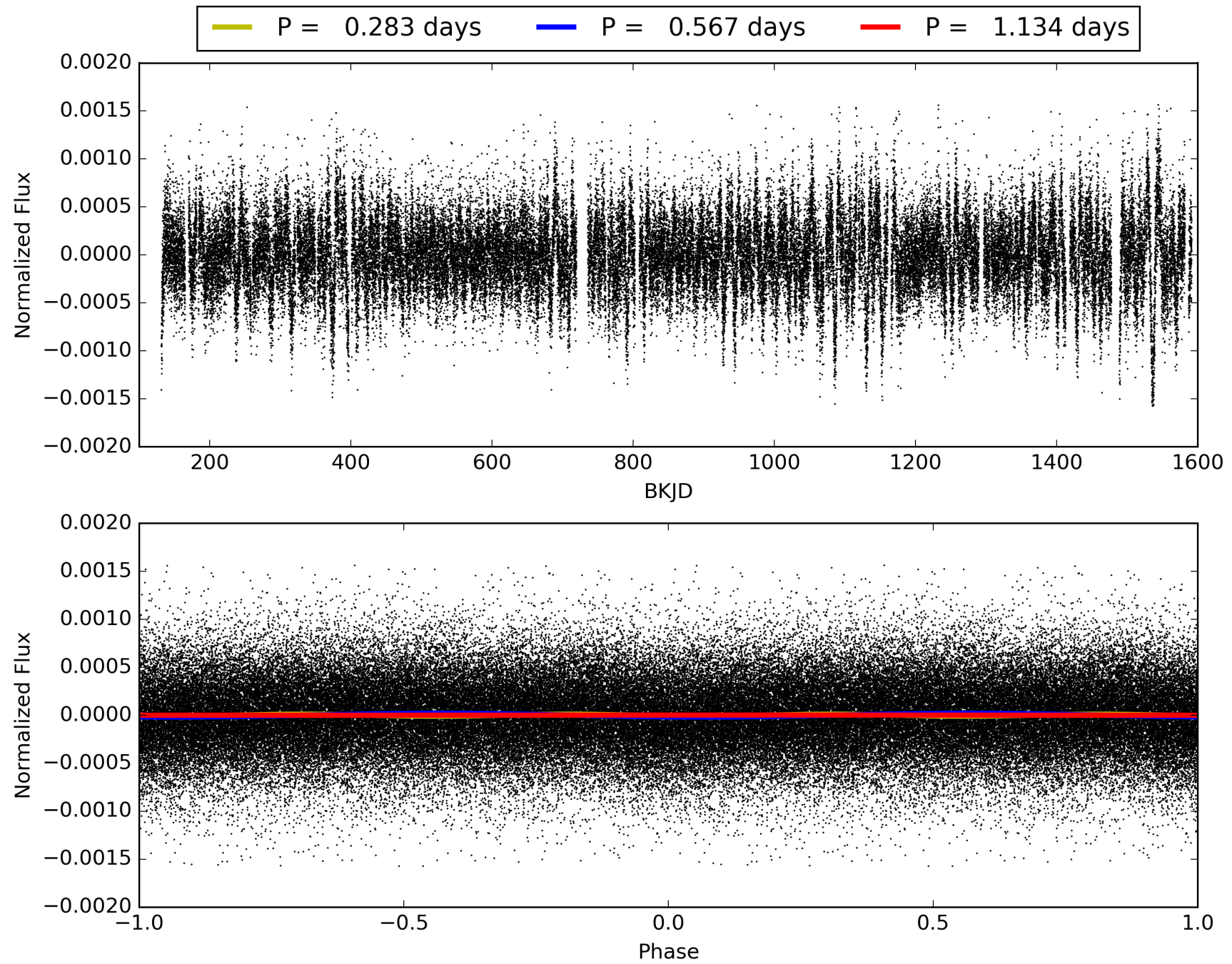
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [129.41 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2268/2268]
GhostDiagnostic-chr: -0.01021
Centroid-sig: N/A
Centroid-so: 1.745 arcsec [1.51 σ]
OotOffset-rm: 1.928 arcsec [2.77 σ]
KicOffset-rm: 1.887 arcsec [2.67 σ]
OotOffset-st: 4/4/4/3 [15]
KicOffset-st: 4/4/4/3 [15]
DiffImageQuality-fgm: 0.40 [6/15]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 007032001-01, PDC Light Curves

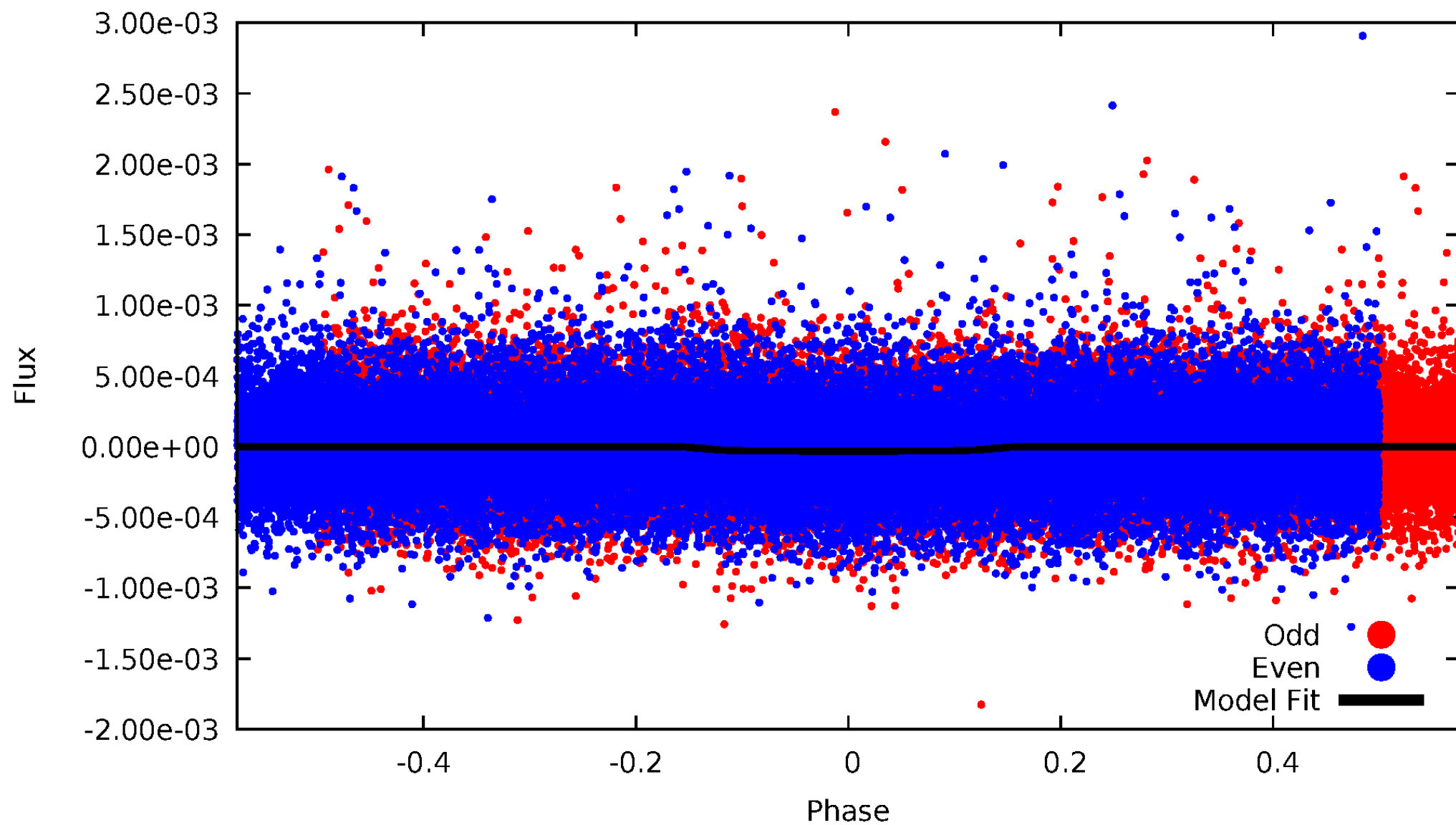


TCE 007032001-01



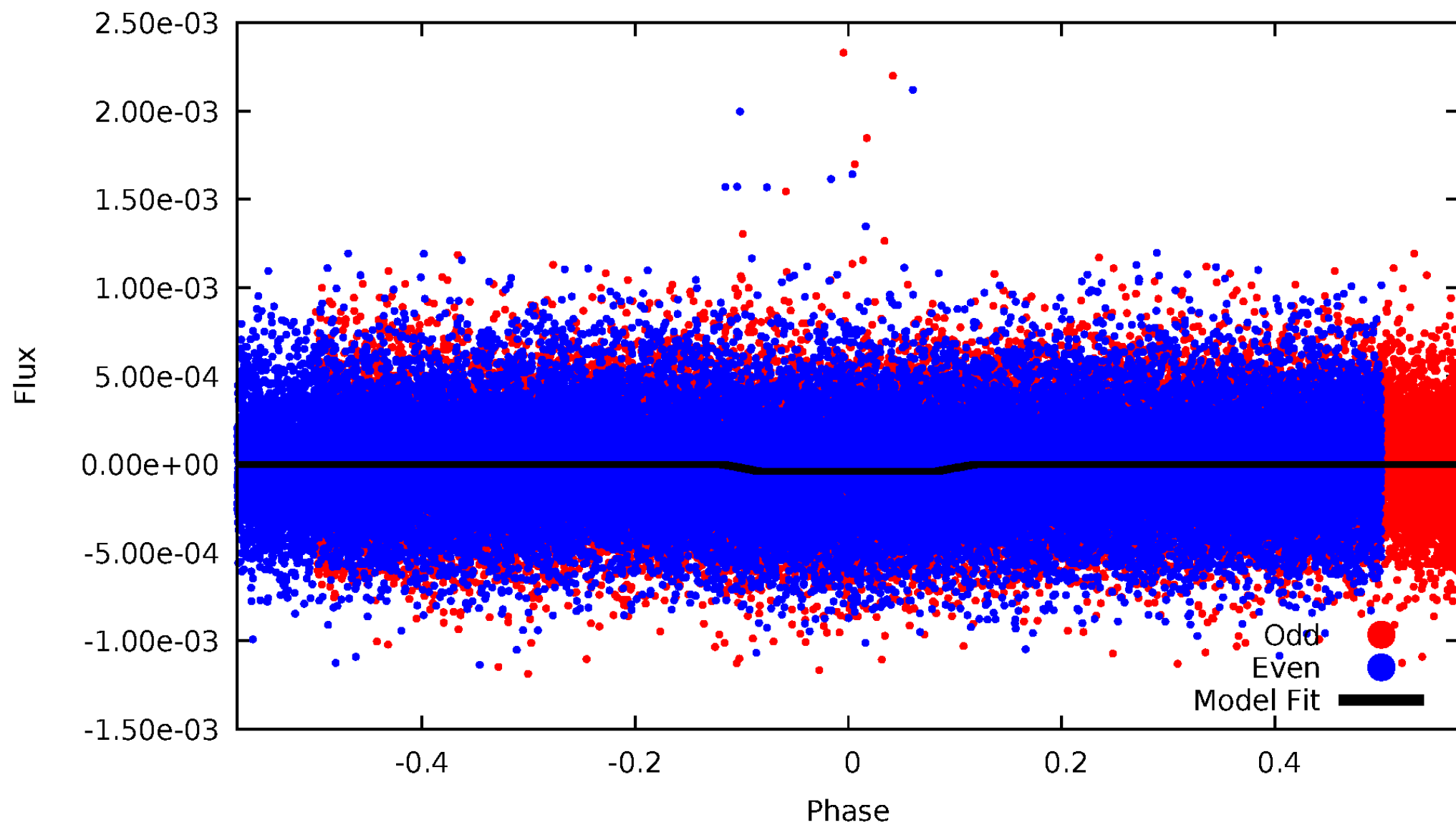
DV Odd/Even

TCE 007032001-01



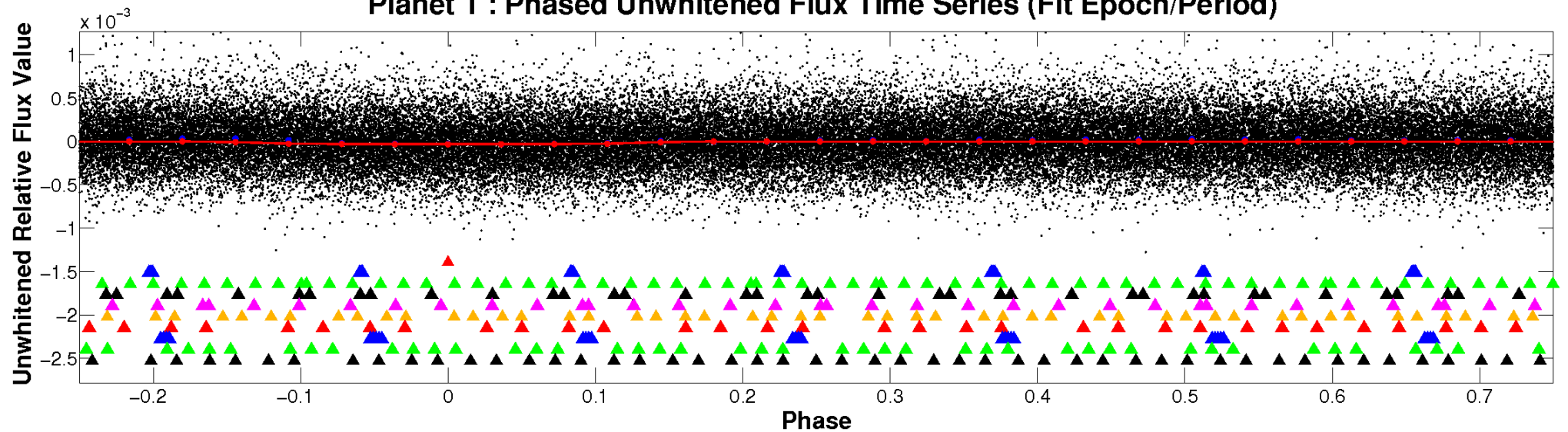
ALT Odd/Even

TCE 007032001-01

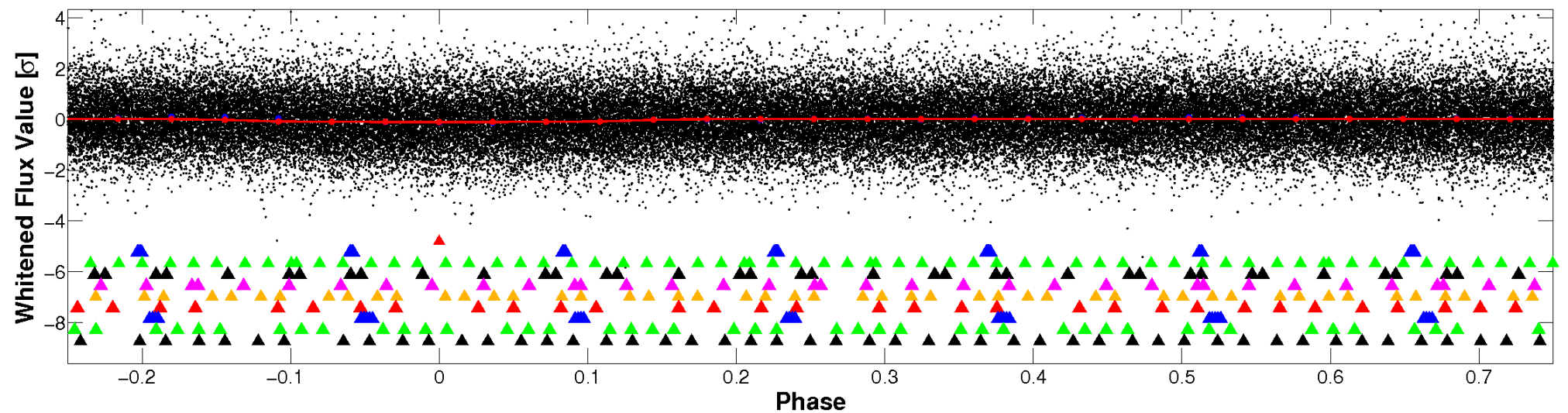


Non-Whitened Vs. Whitened Light Curve

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

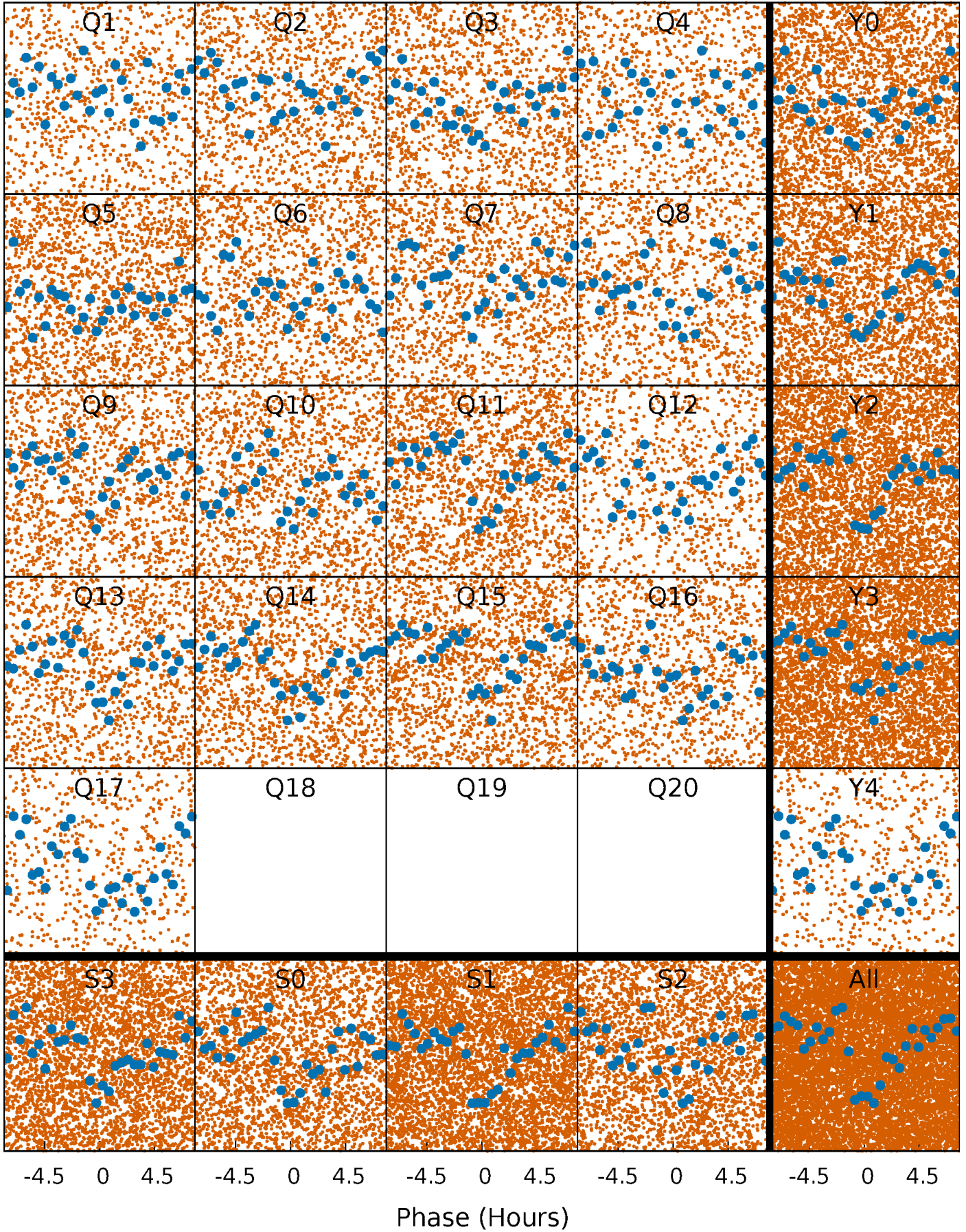


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



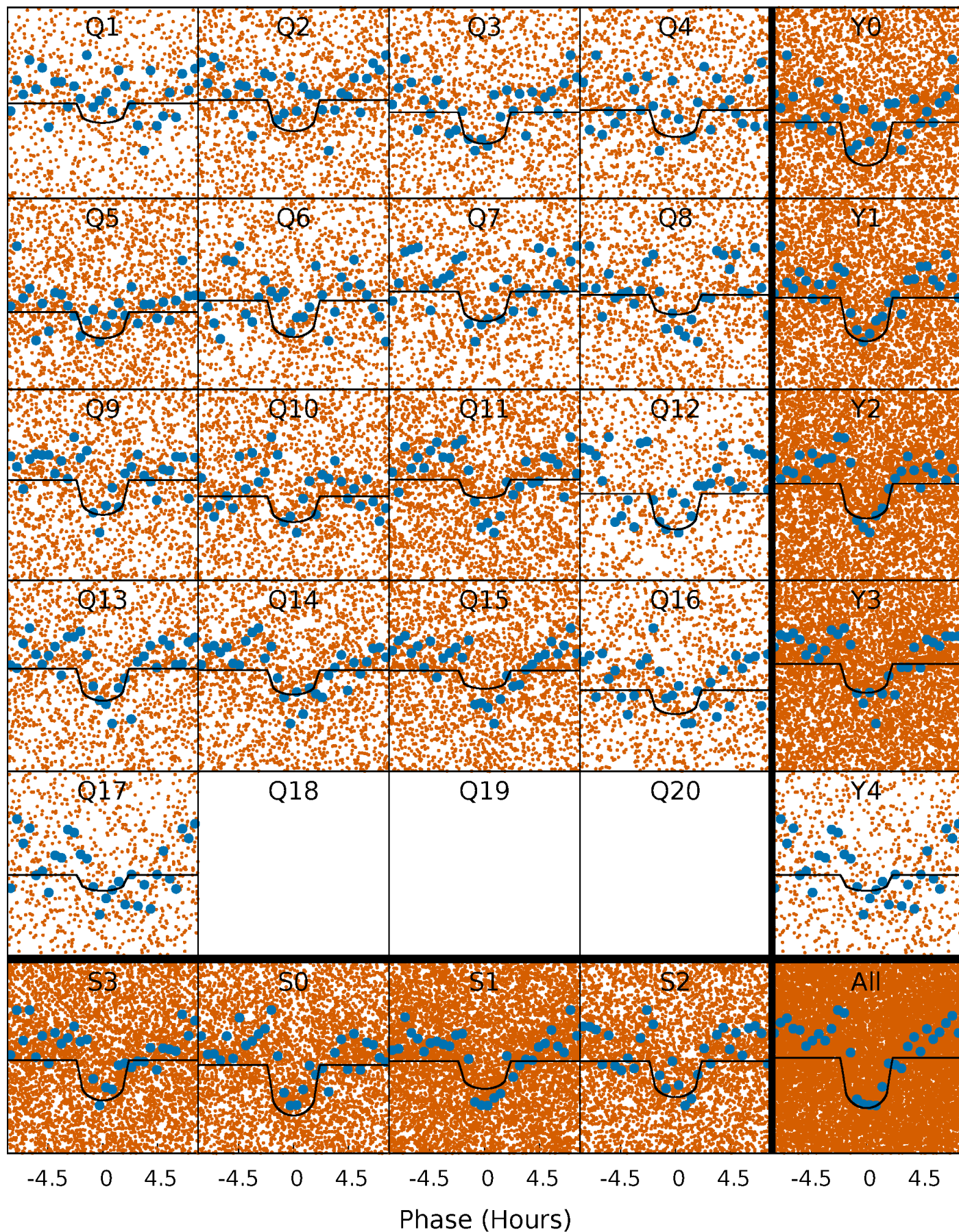
PDC Quarter-Phased Transit Curves

TCE 007032001-01 P= 0.566784 Days $T_0=131.826593$ (BKJD)



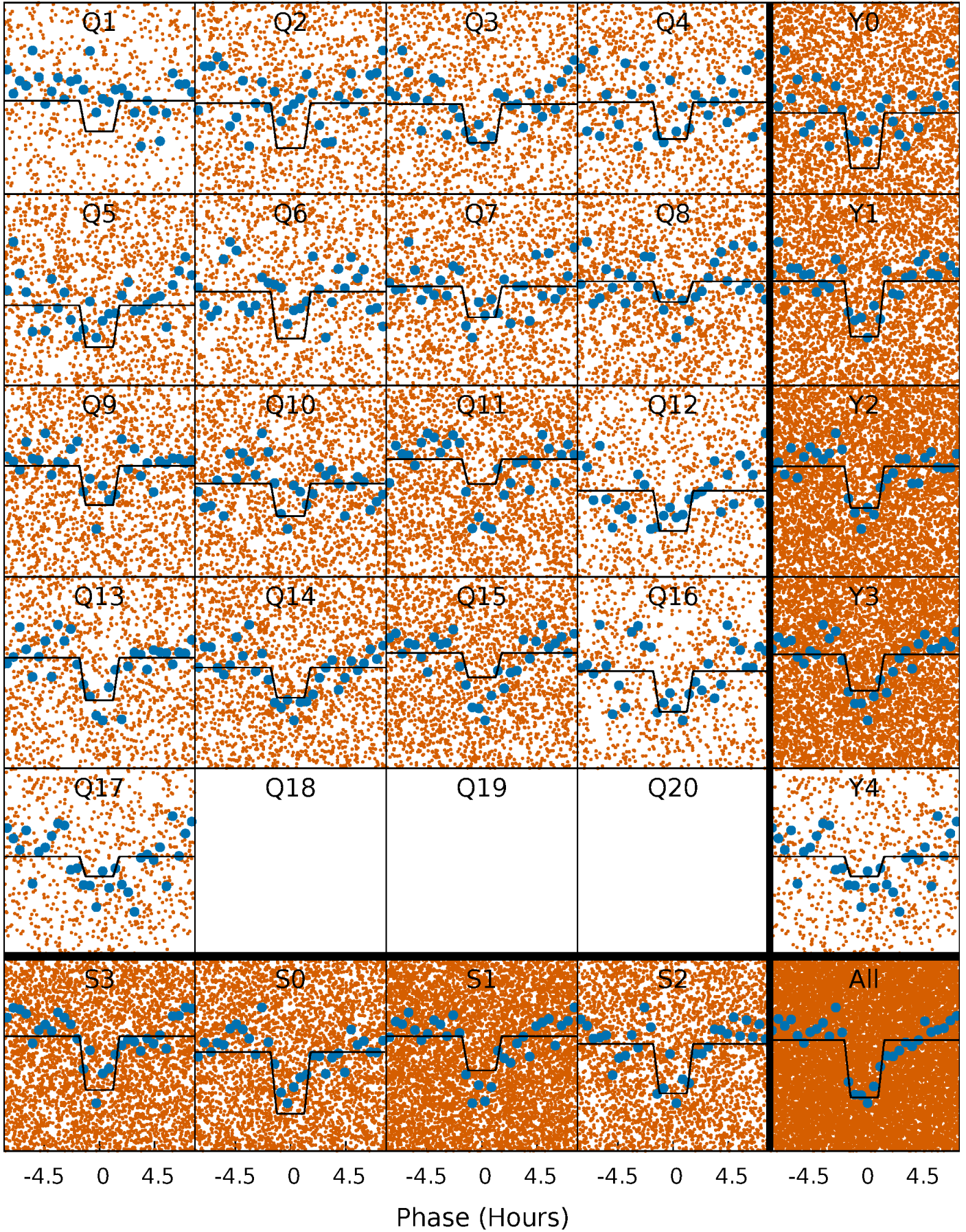
DV Quarter-Phased Transit Curves

TCE 007032001-01 P= 0.566784 Days $T_0=131.826593$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

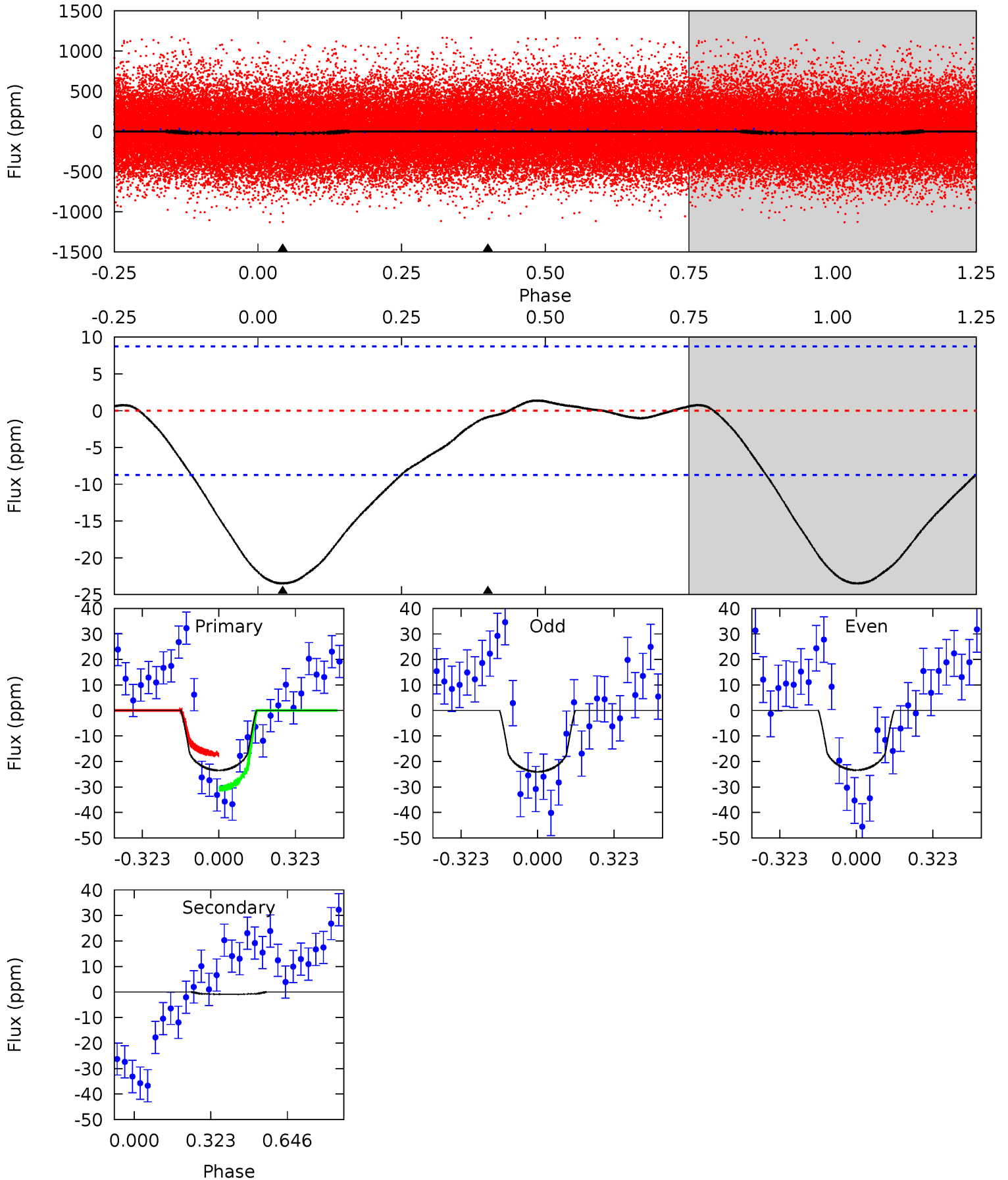
TCE 007032001-01 P= 0.566801 Days $T_0=131.813267$ (BKJD)



DV Model-Shift Uniqueness Test

007032001-01, P = 0.566784 Days, E = 131.259809 Days

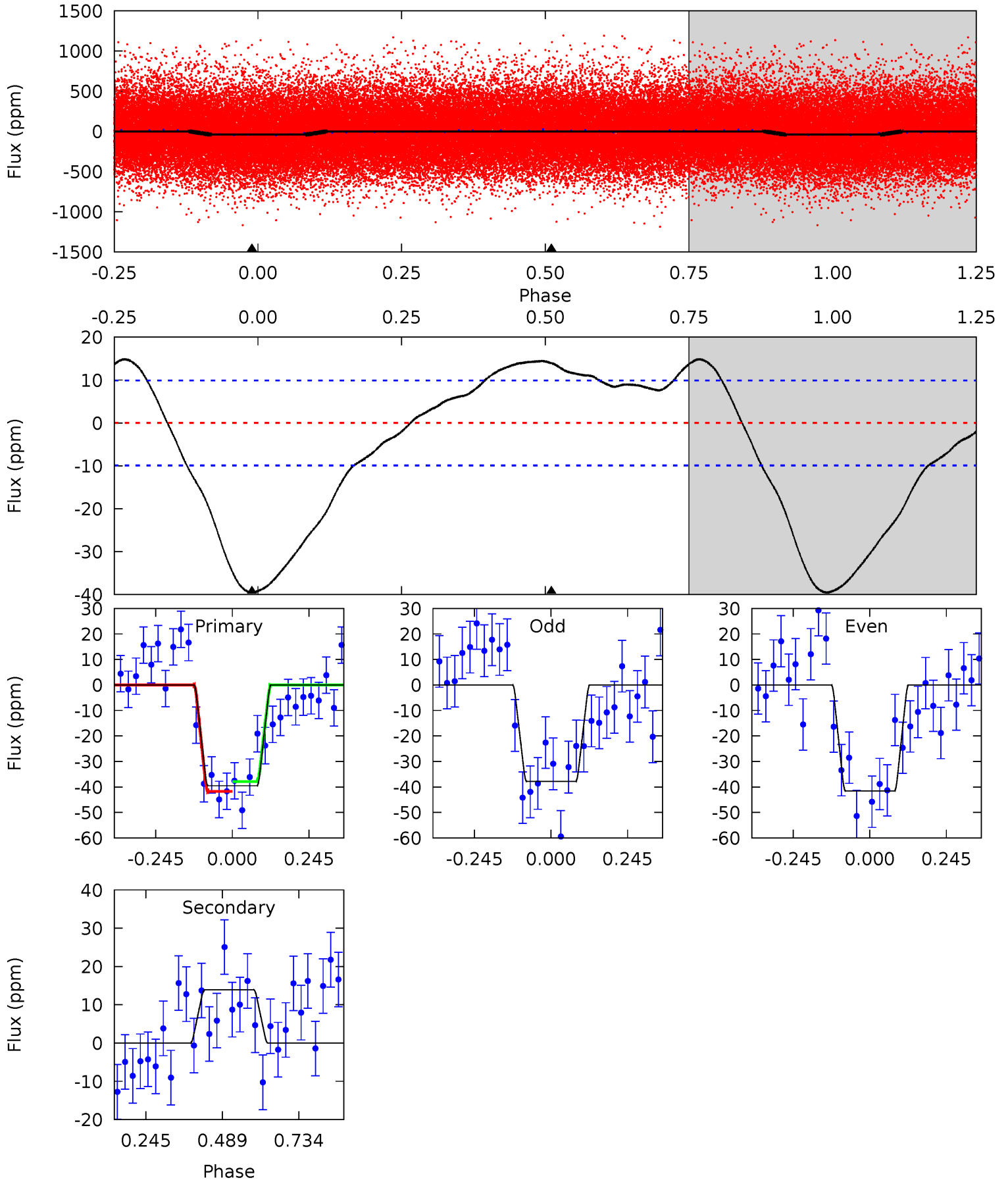
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	0.44	0	0	4.31	0.99	0.29	11.6	11.6	0.44	0.44	0.16	1.01	0.06	3.39



Alt Model-Shift Uniqueness Test

007032001-01, P = 0.566801 Days, E = 131.246466 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.5	-6.14	0	0	4.37	1.16	3.19	17.5	17.5	-6.14	-6.14	0.82	0.95	0.27	0.86



Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-01 / KOI 4518.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1 ± 2	$0.58^{+0.38}_{-0.36}$	2799^{+175}_{-106}	-2691^{+6378}_{-653}	$0.163^{+1.240}_{-0.488}$
Alt.	14 ± 2	$0.63^{+0.40}_{-0.36}$	2803^{+165}_{-112}	-4431^{+652}_{-1939}	$-3.062^{+1.908}_{-13.783}$

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 $A_{obs} \gg 1.0$

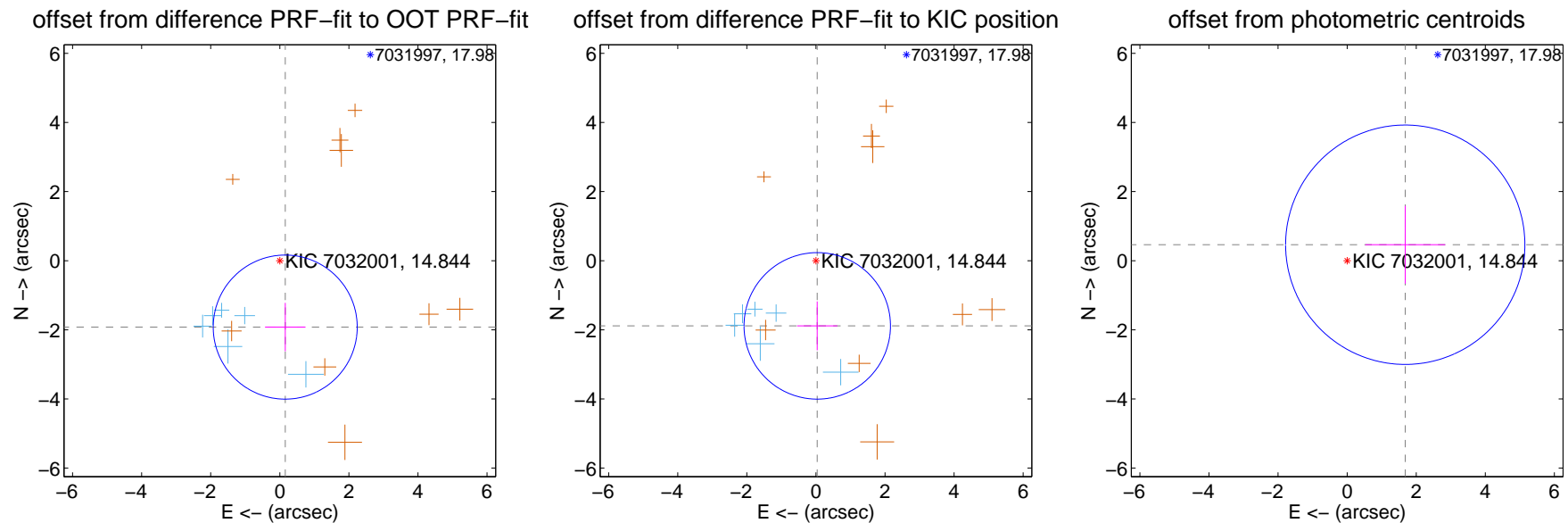
DV Centroid Data

Supplemental centroid analysis for 007032001-01. Kepler magnitude: 14.84. Transit SNR 12.10

There are 6 quarters with good PRF difference image offsets

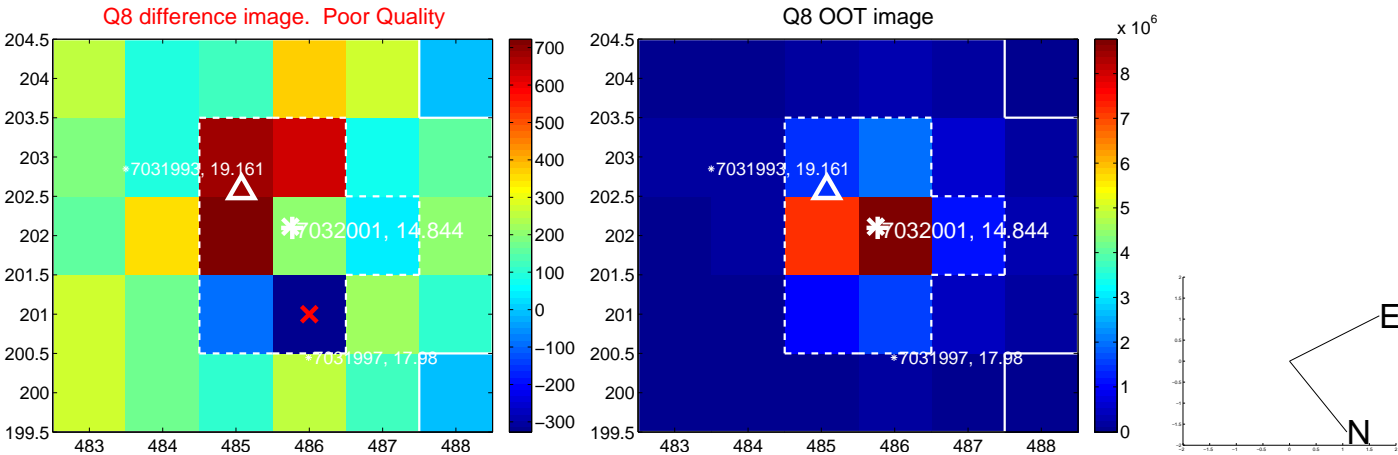
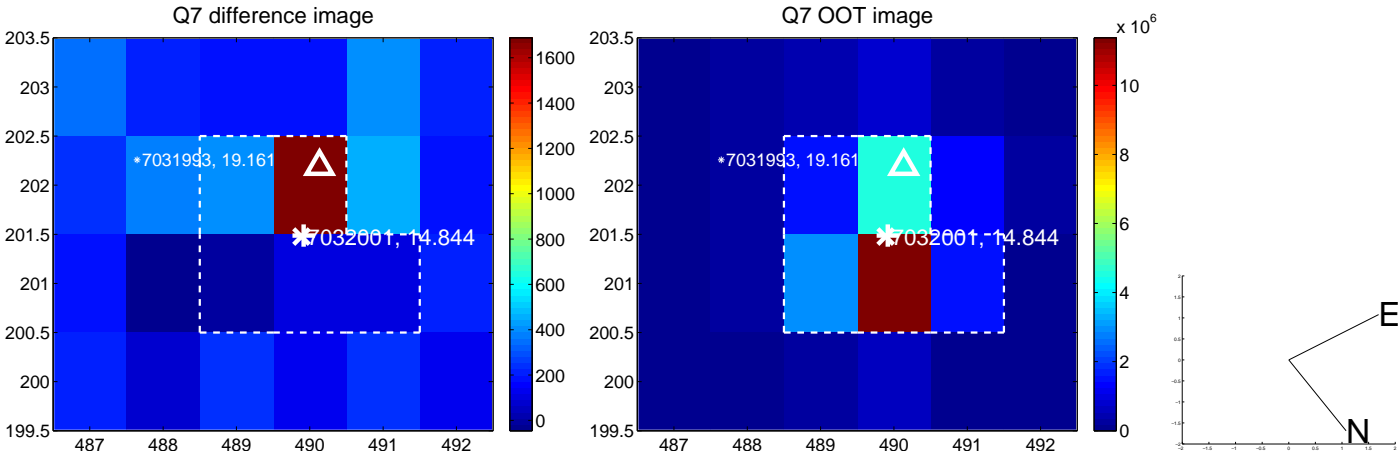
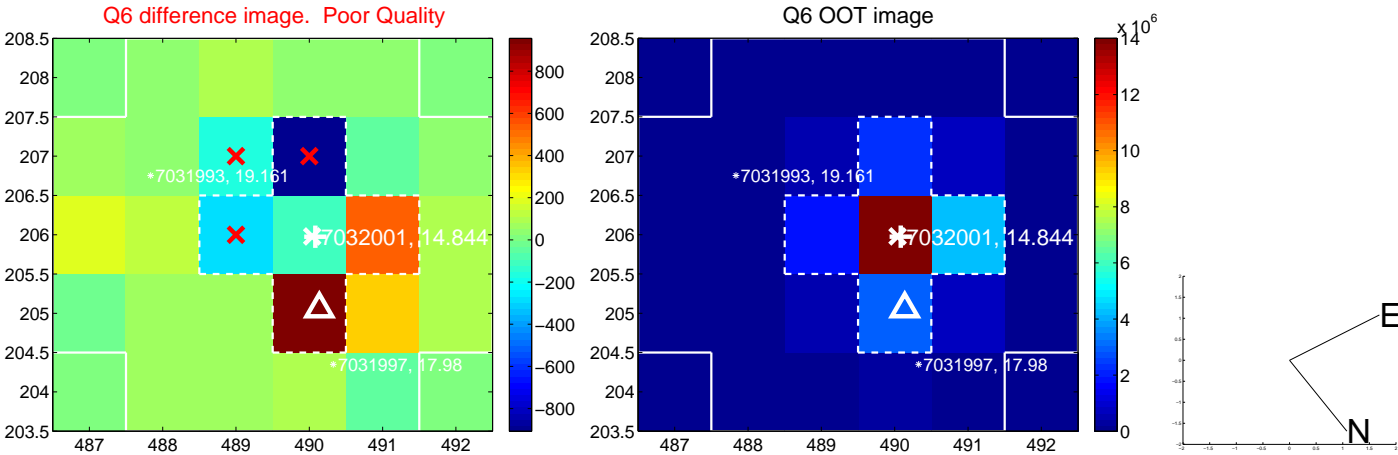
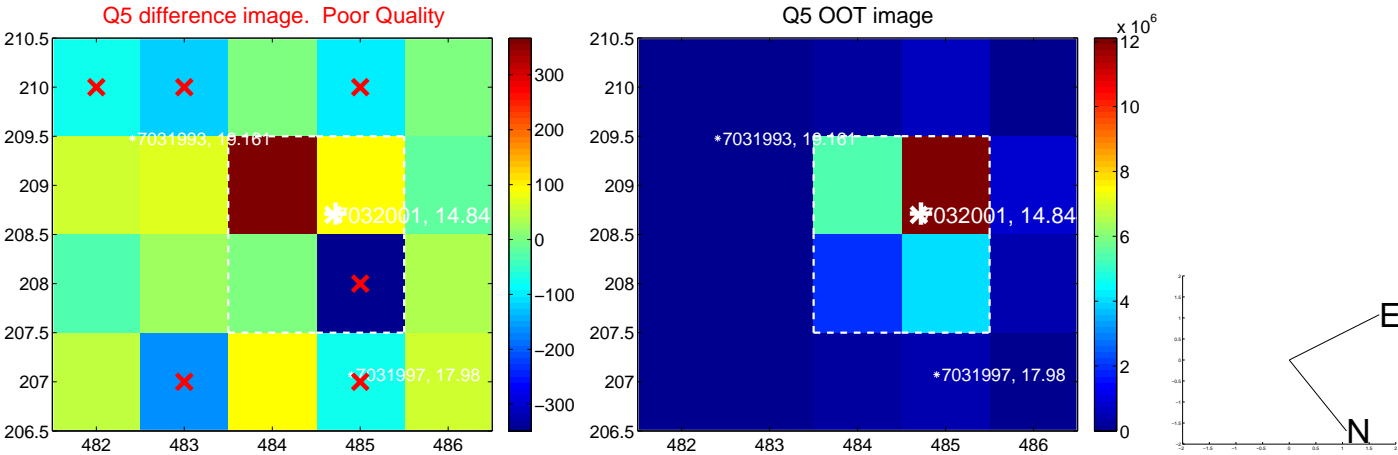
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.928 ± 0.695	2.77	-0.157 ± 0.585	-1.922 ± 0.701
PRF-fit source offset from KIC position	1.887 ± 0.707	2.67	-0.038 ± 0.584	-1.886 ± 0.707
photometric centroid source offset	1.74 ± 1.15	1.51	-1.68 ± 1.16	0.46 ± 1.13

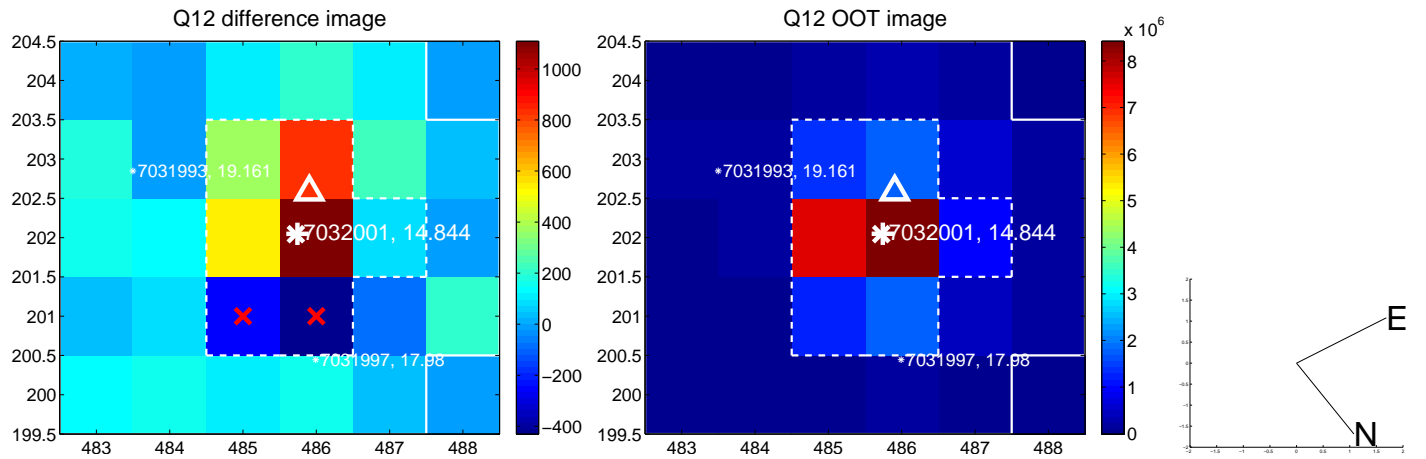
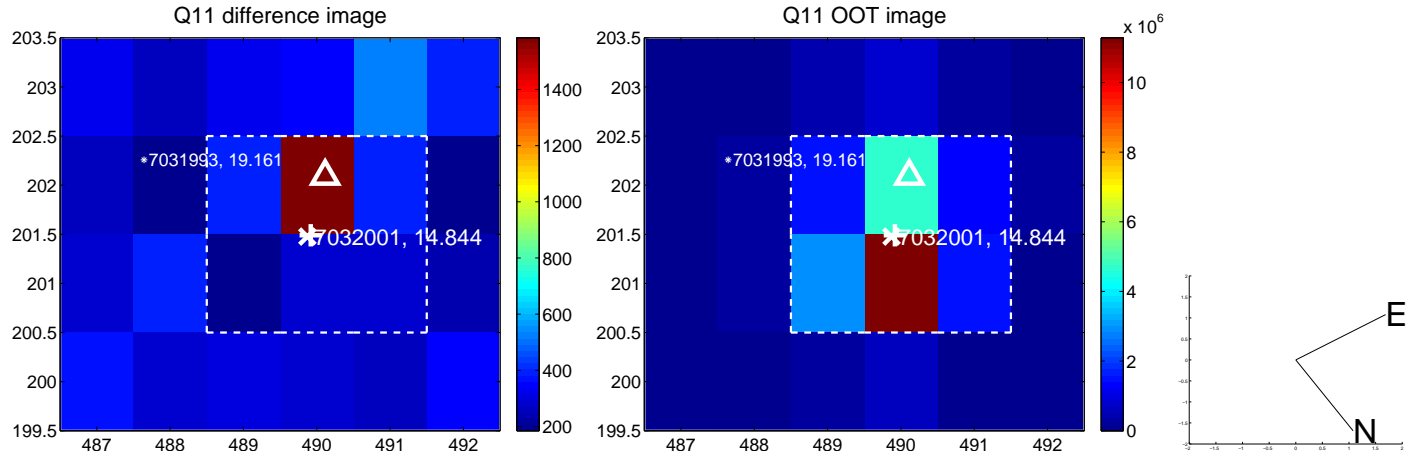
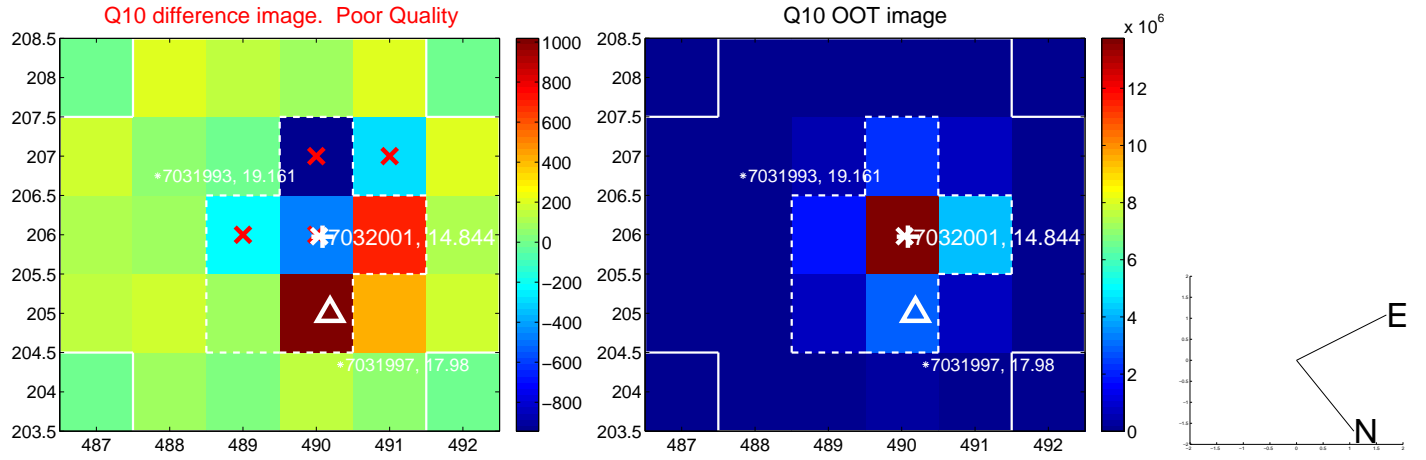
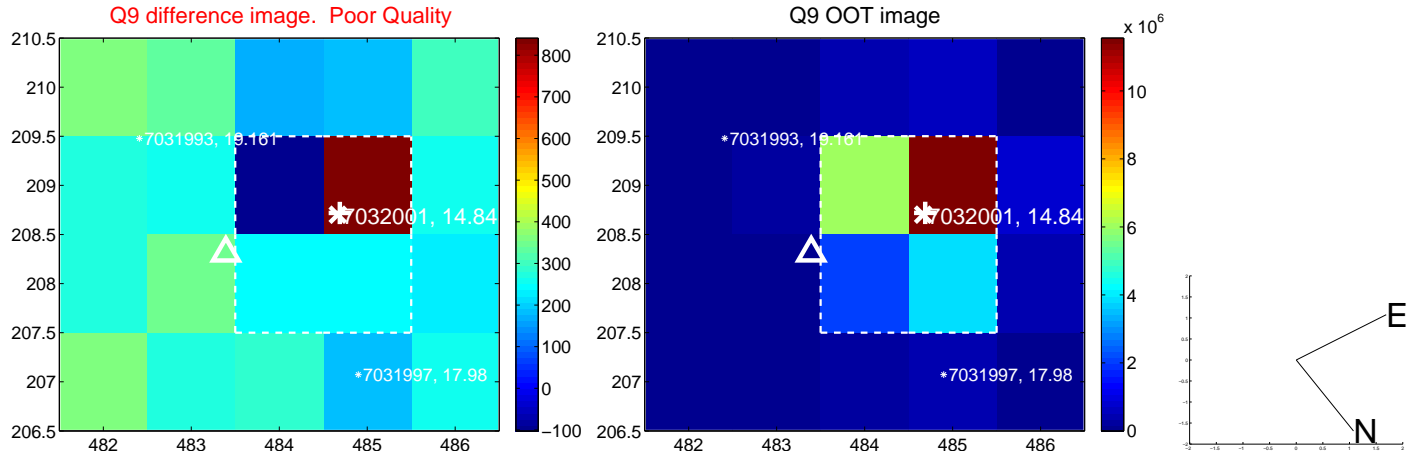


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

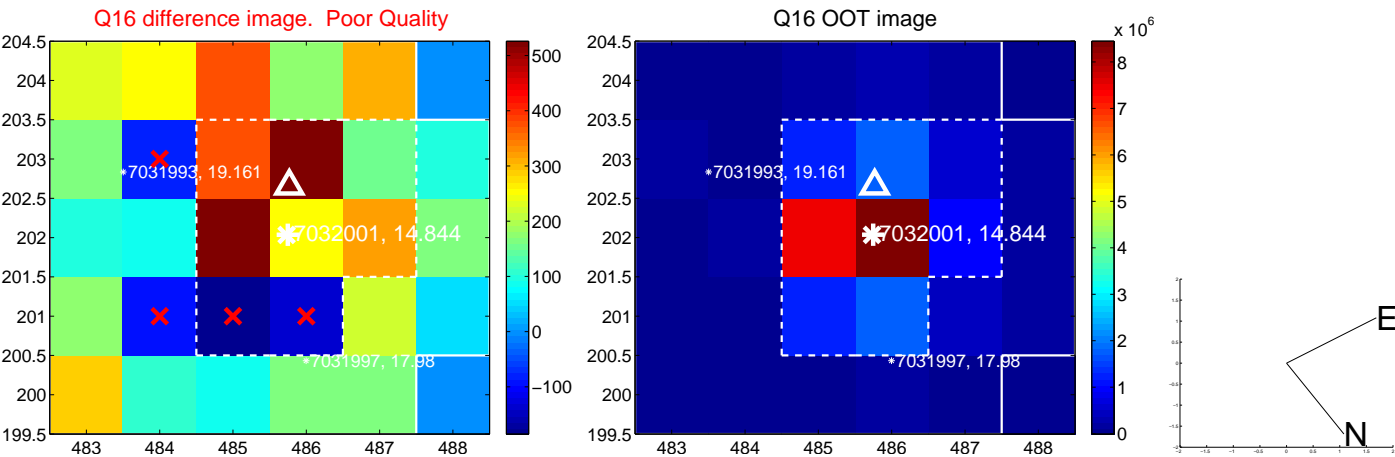
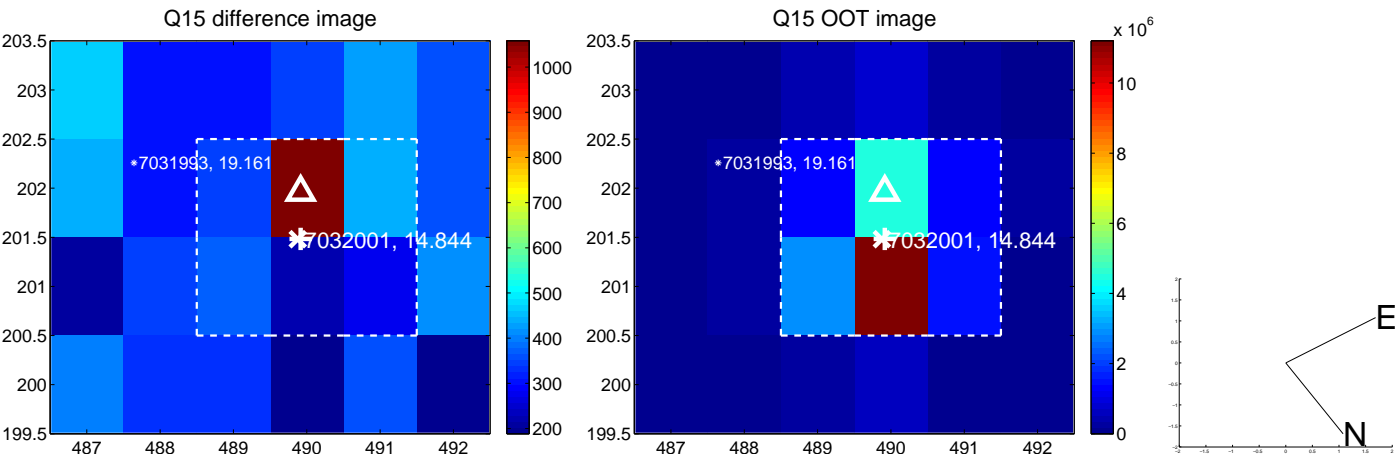
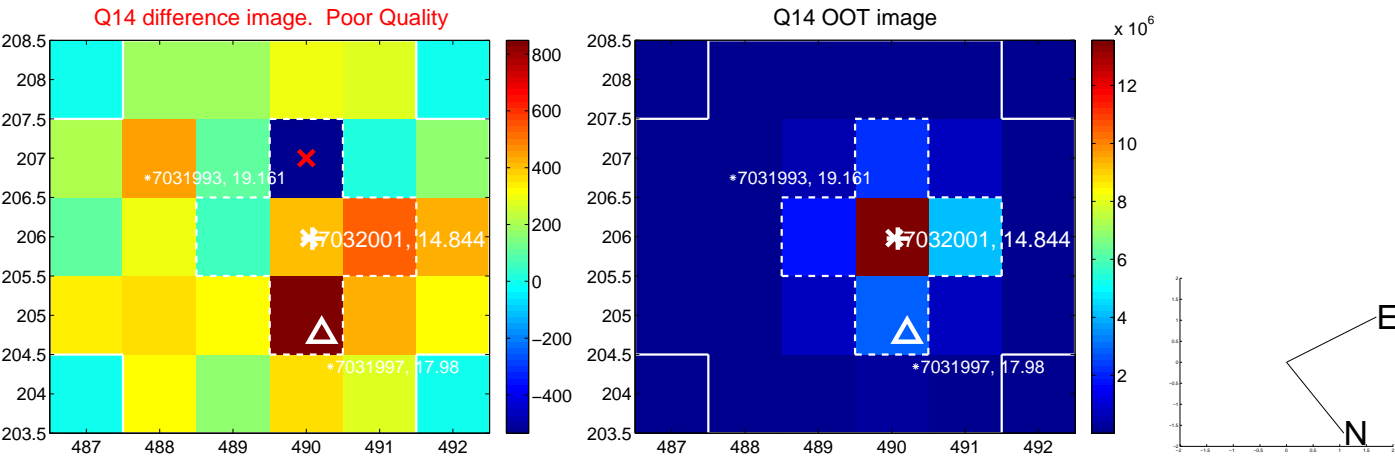
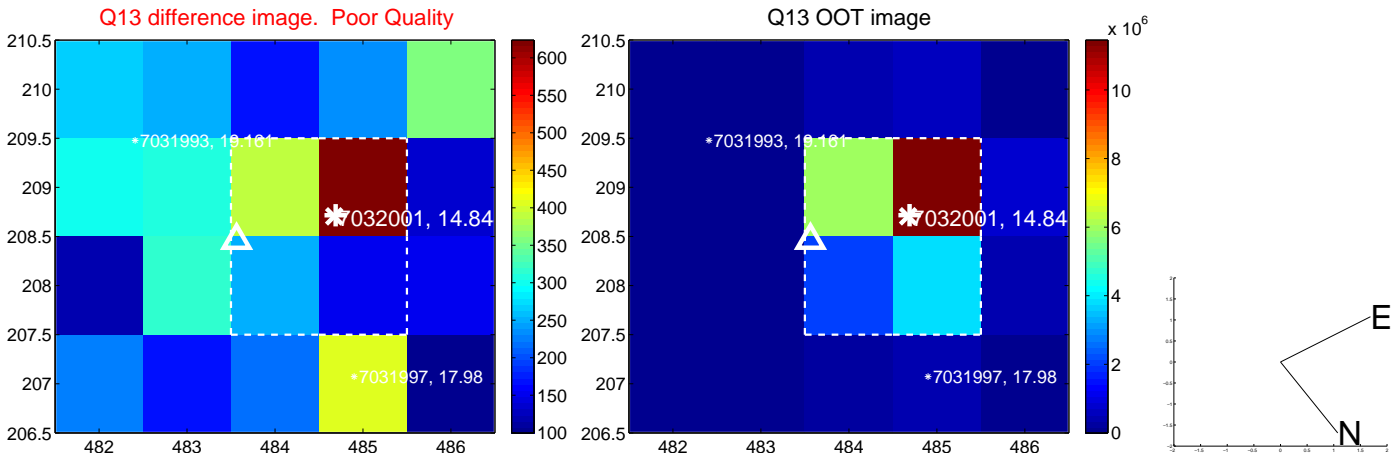
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



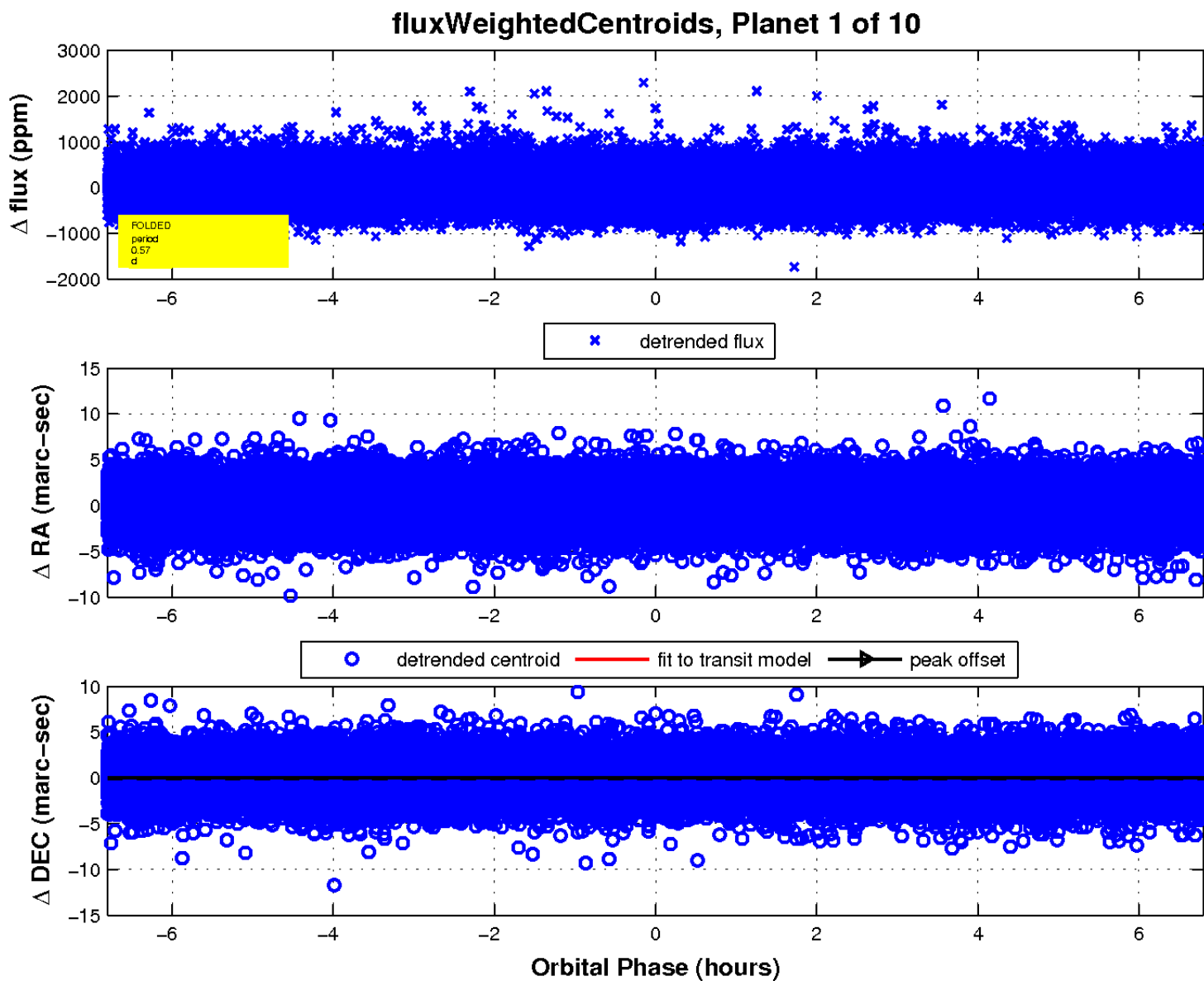
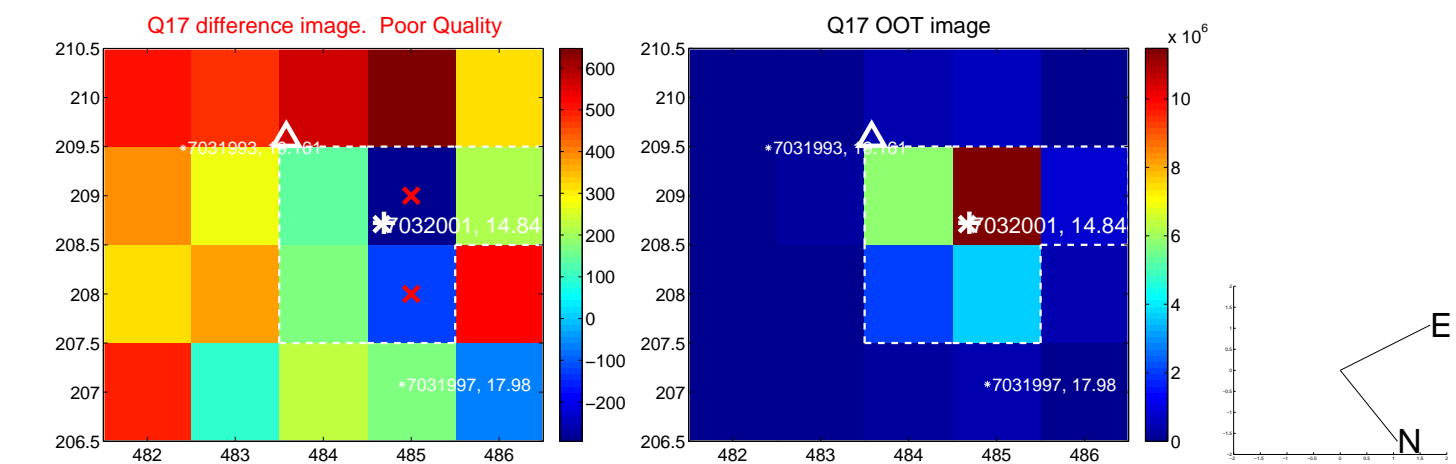
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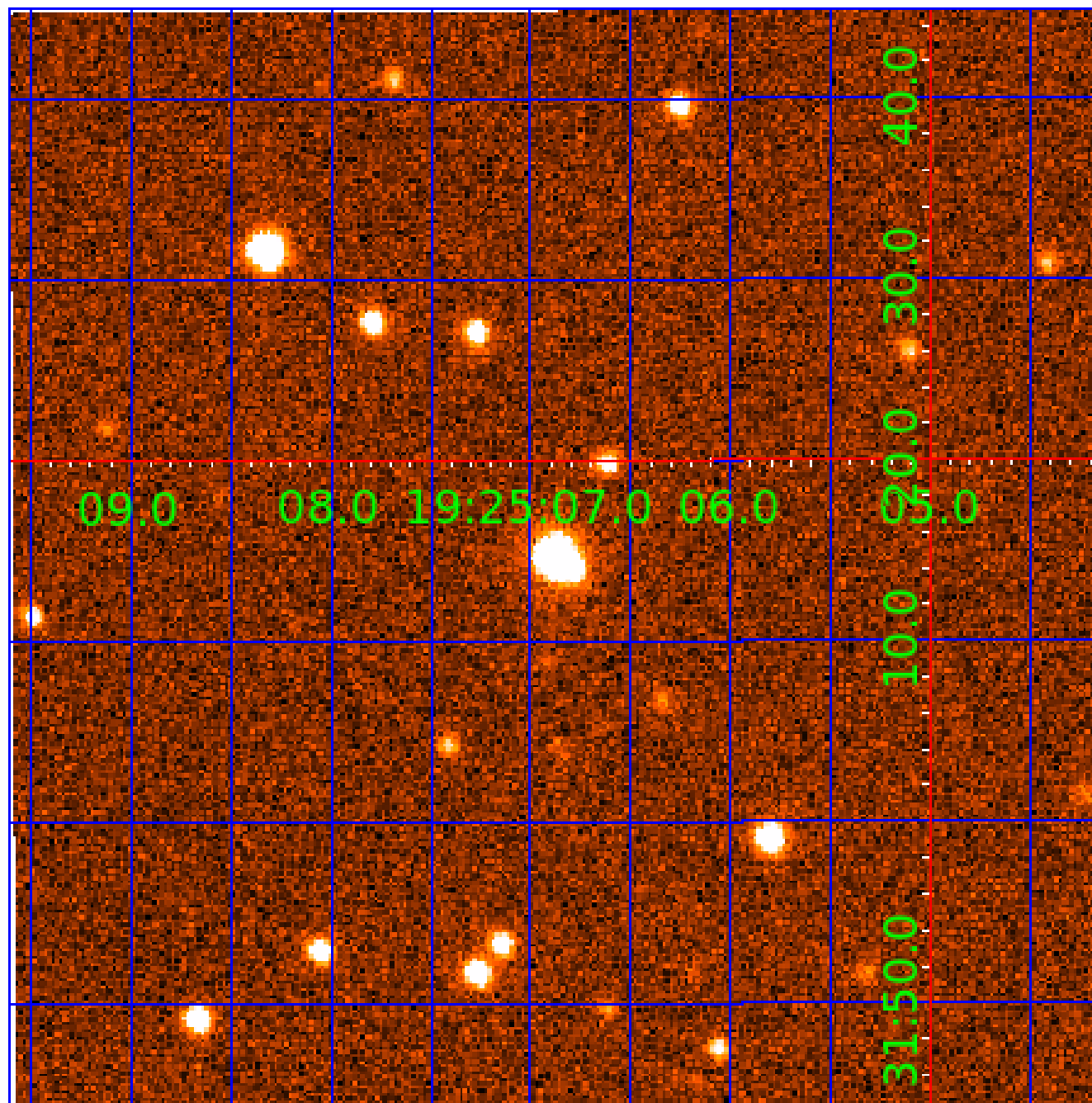


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UKIRT Image

Declination



KIC 007032001

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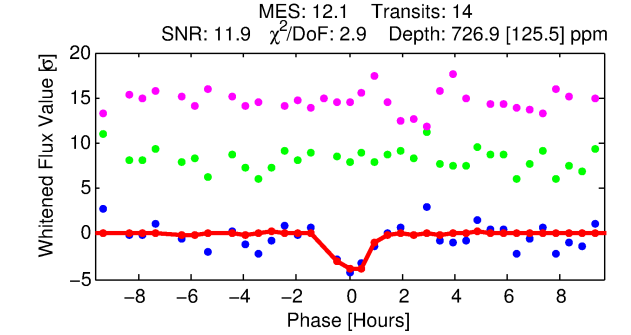
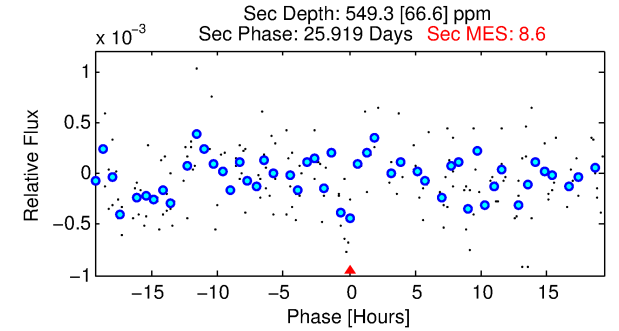
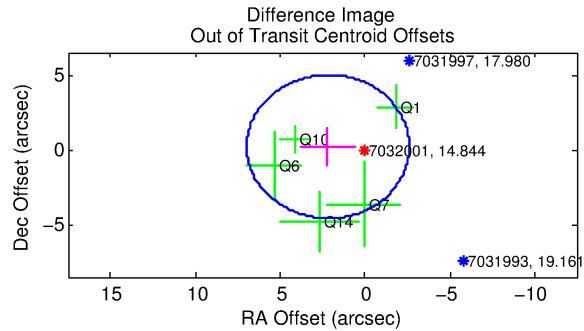
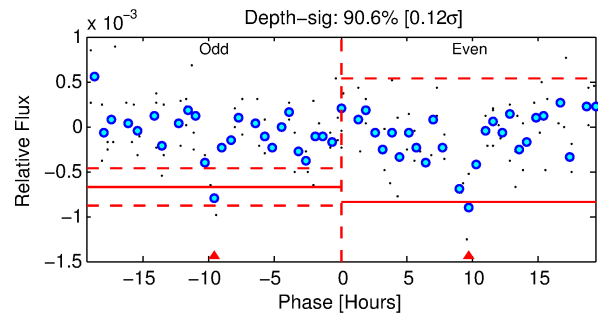
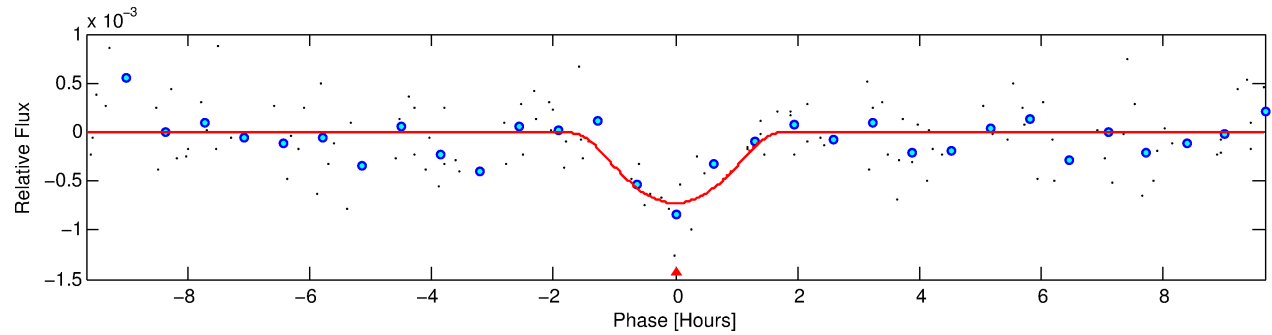
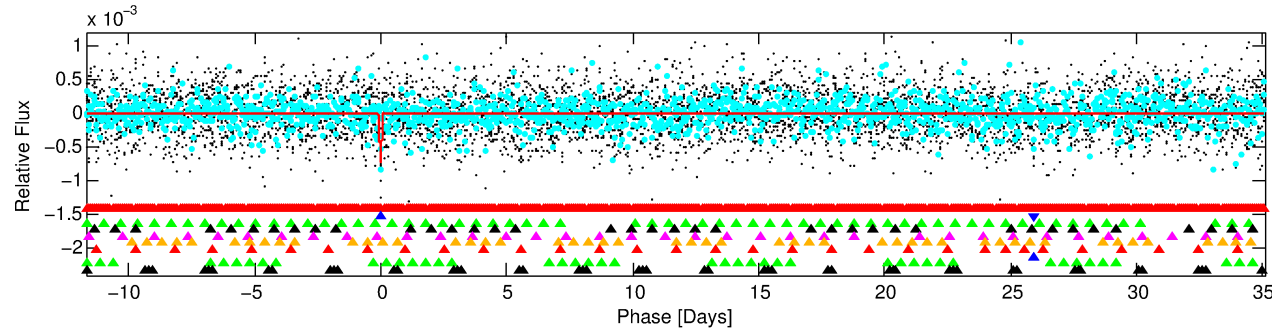
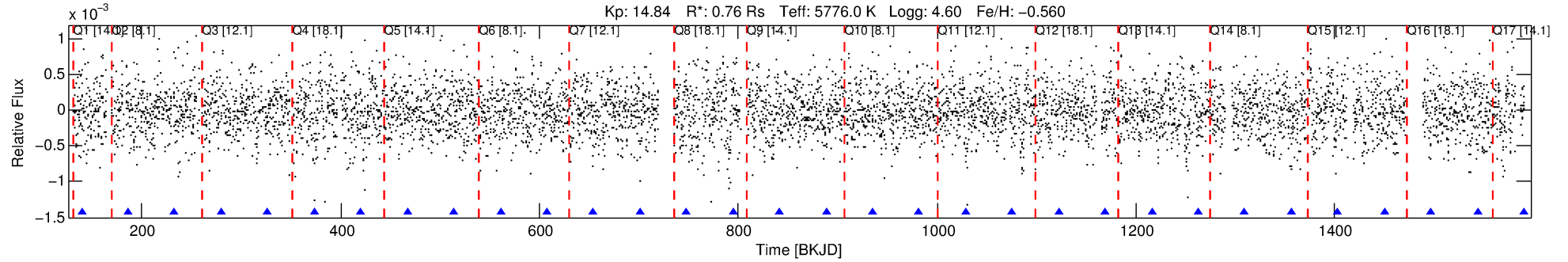
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007032001-02

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 2 of 10 Period: 46.800 d
KOI: K04518 Corr: No Ephemeris Match



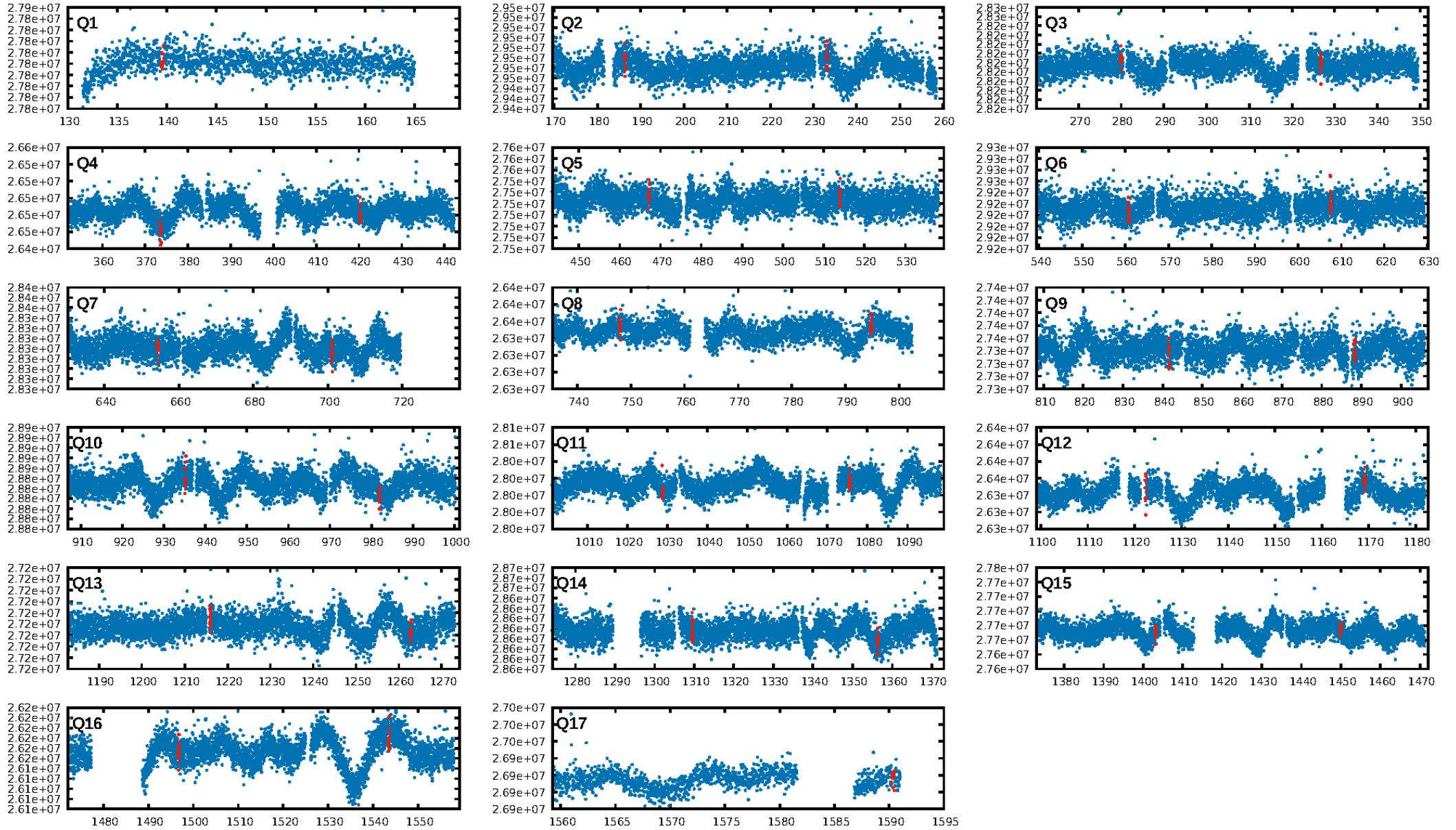
DV Fit Results:

Period = 46.80020 [0.00079] d
Epoch = 139.5654 [0.0154] BKJD
Rp/R* = 0.0432 [0.2750]
a/R* = 35.76 [65.20]
b = 0.99 [0.45]
Seff = 10.04 [3.17]
Teff = 454 [36] K
Rp = 3.57 [22.77] Re
a = 0.2390 [0.0494] AU
Ag = 1350.29 [17190.68] [0.08 σ]
Teffp = 4254 [13535] K [0.28 σ]

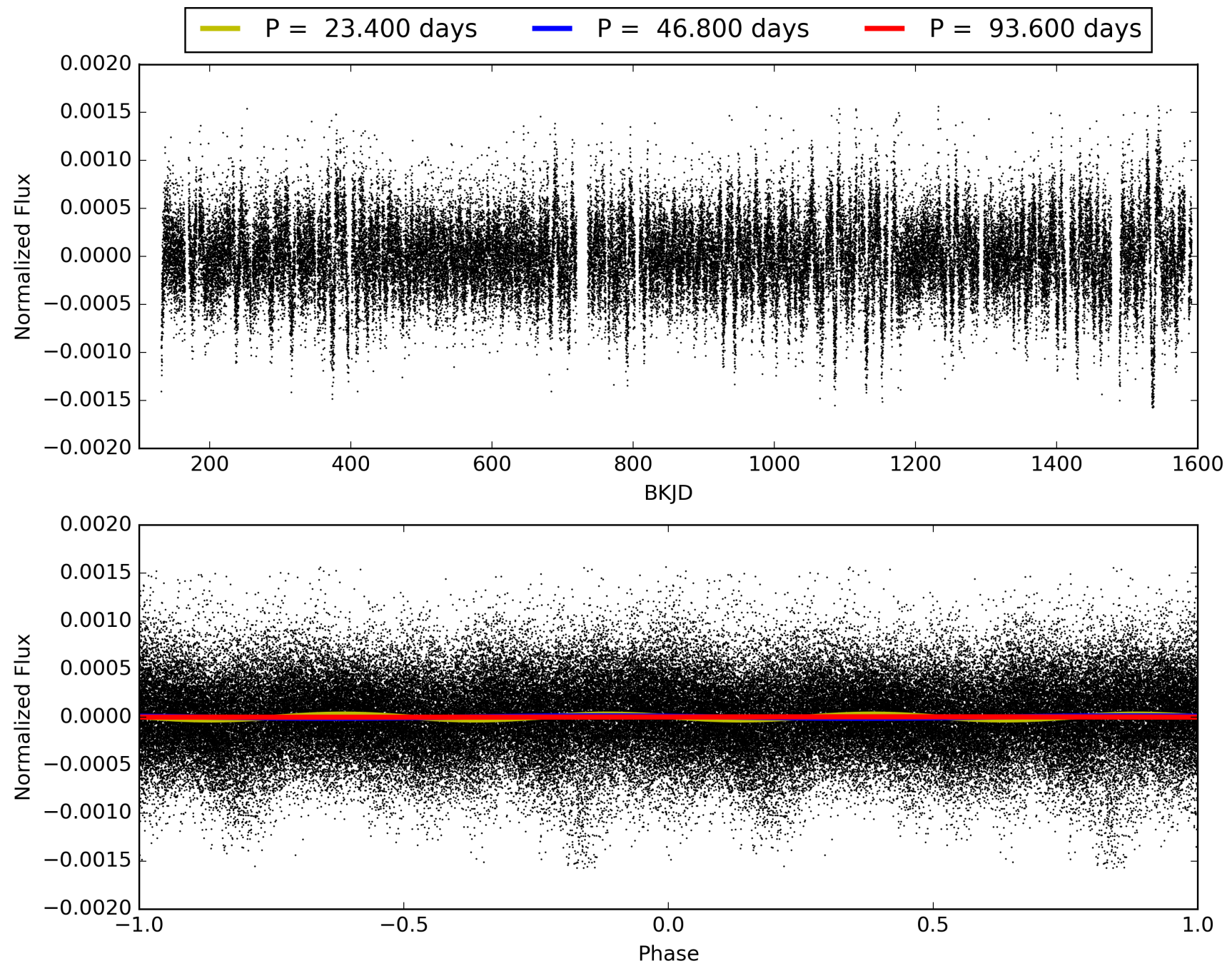
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 6.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [12/12]
GhostDiagnostic-chr: 0.1805
Centroid-sig: N/A
Centroid-so: 1.096 arcsec [1.74 σ]
OotOffset-rm: 2.182 arcsec [1.37 σ]
KicOffset-rm: 2.320 arcsec [1.45 σ]
OotOffset-st: 3/1/0/1 [5]
KicOffset-st: 3/1/0/1 [5]
DiffImageQuality-fgm: 0.00 [0/5]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007032001-02, PDC Light Curves

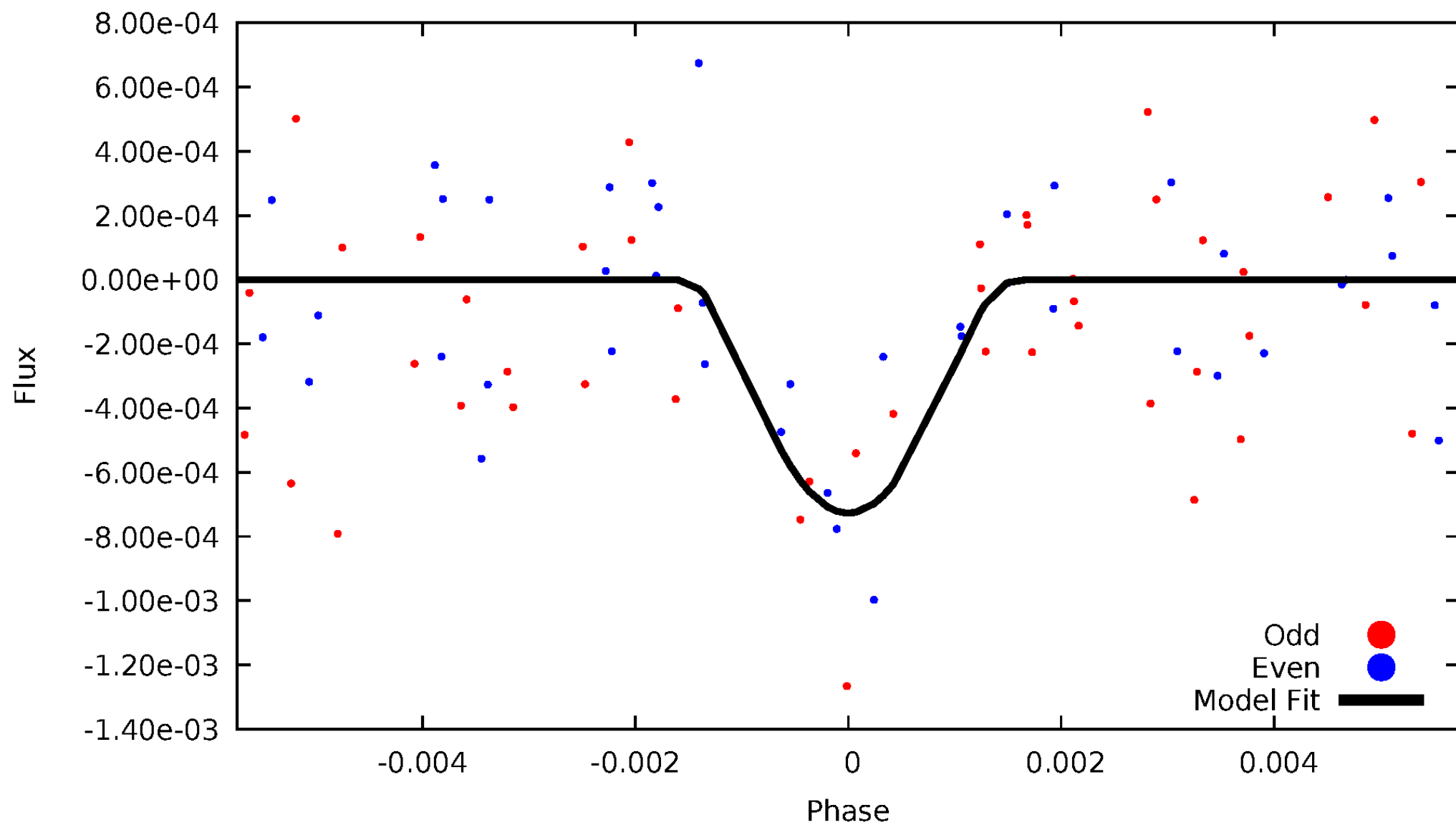


TCE 007032001-02



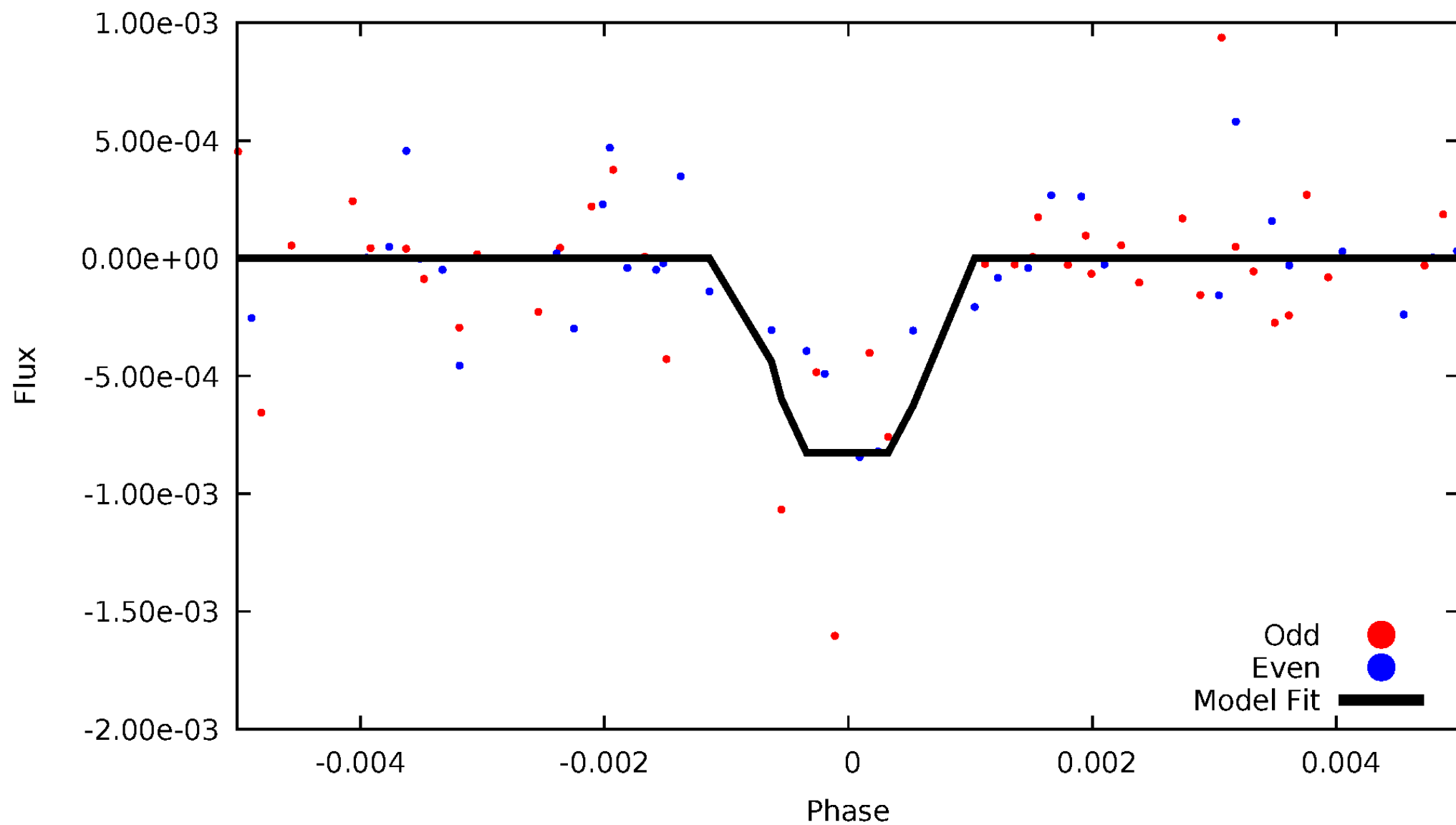
DV Odd/Even

TCE 007032001-02



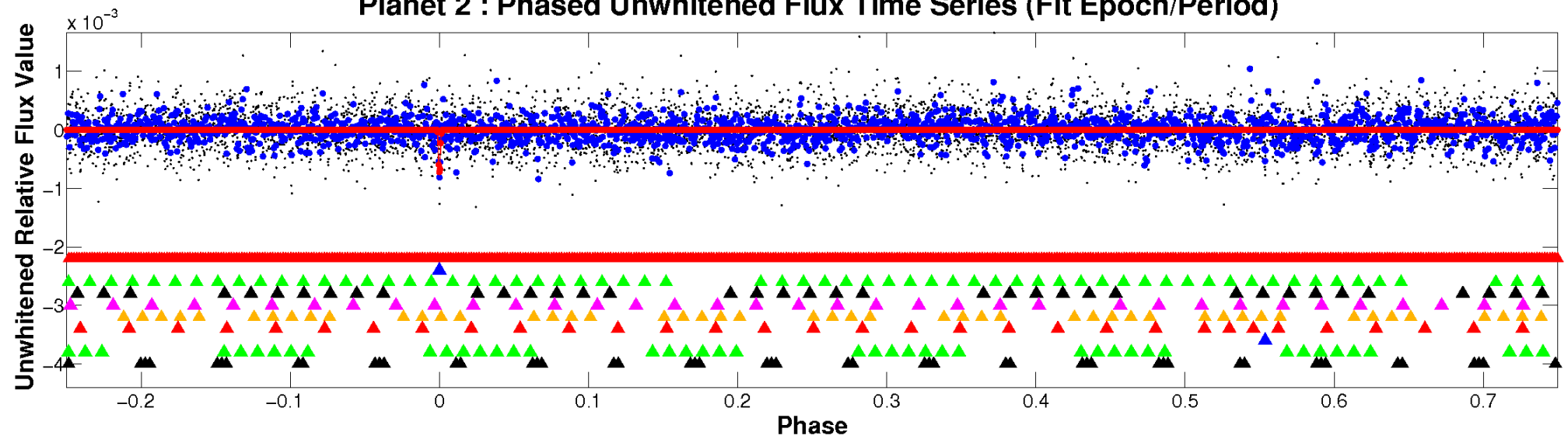
ALT Odd/Even

TCE 007032001-02

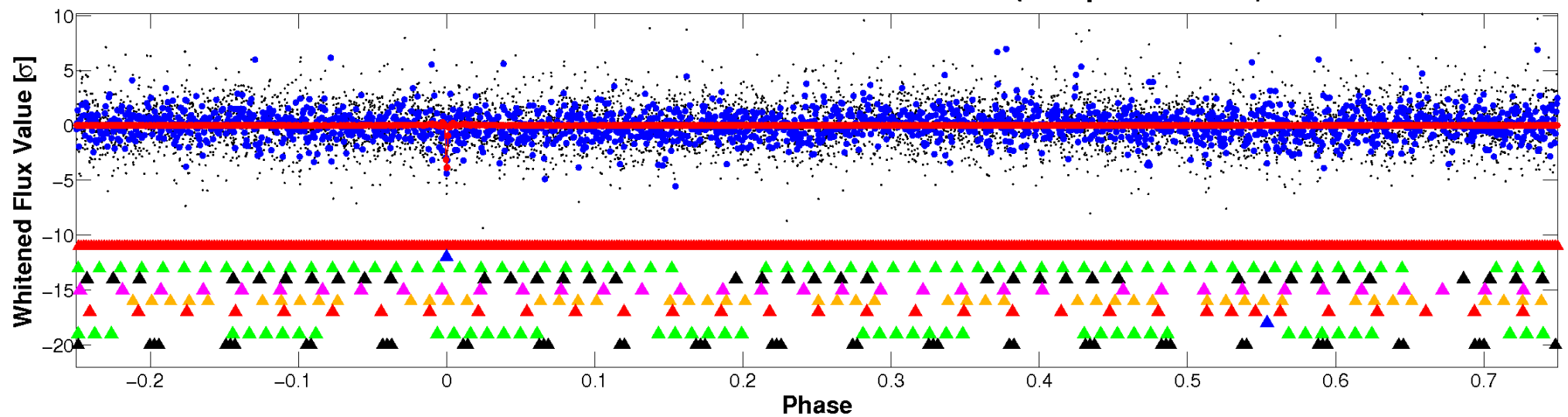


Non-Whitened Vs. Whitened Light Curve

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

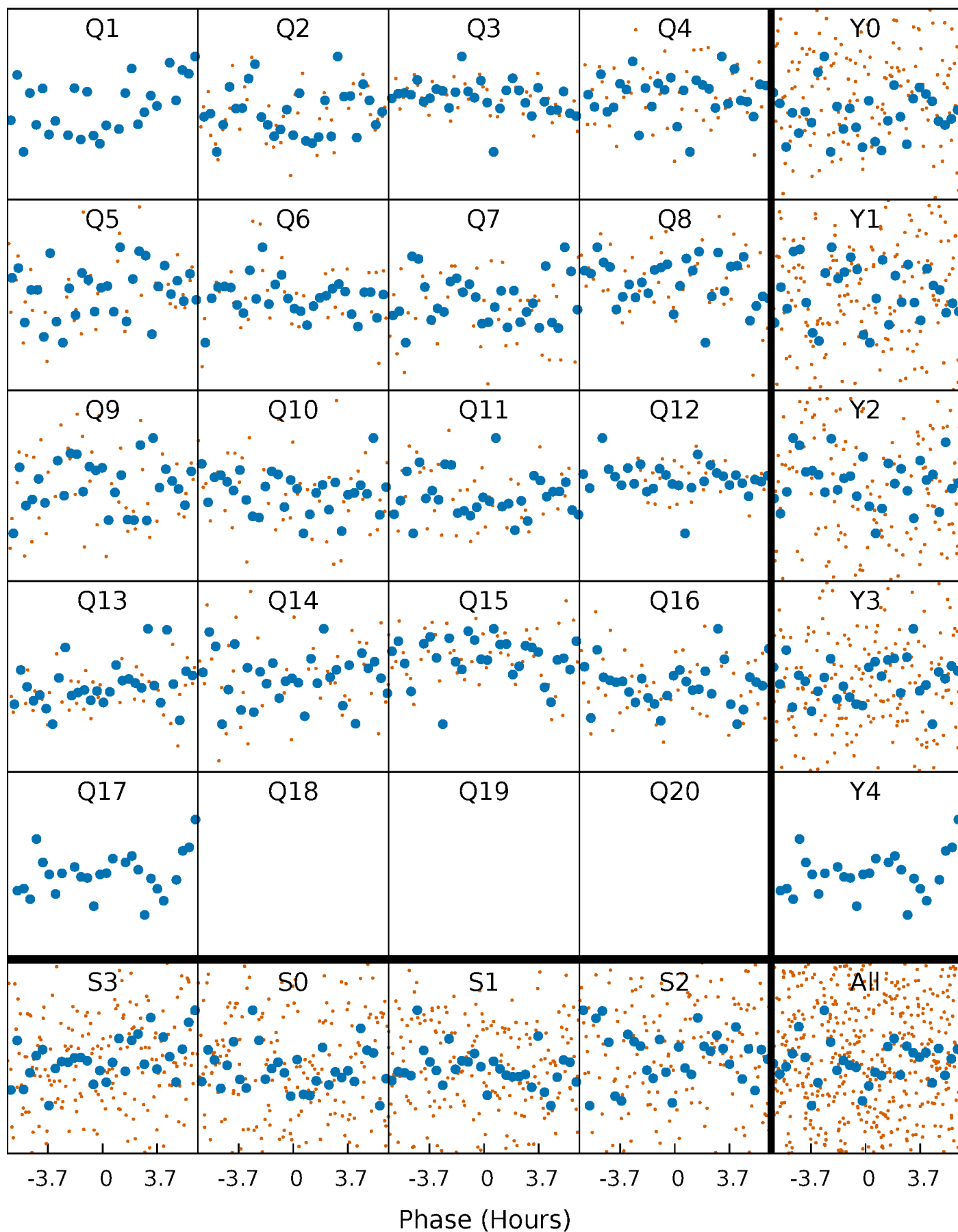


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



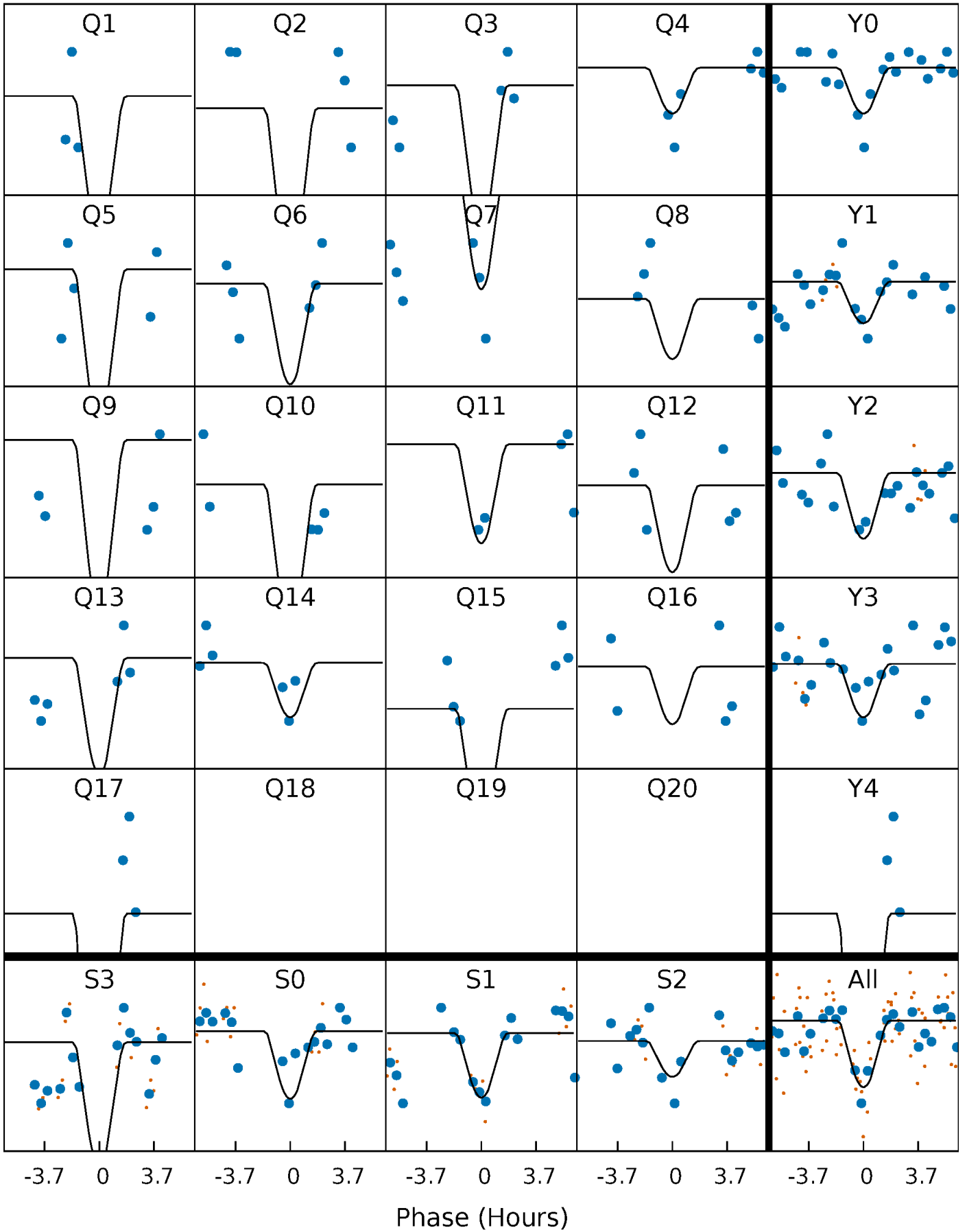
PDC Quarter-Phased Transit Curves

TCE 007032001-02 $P = 46.800195$ Days $T_0 = 139.565379$ (BKJD)



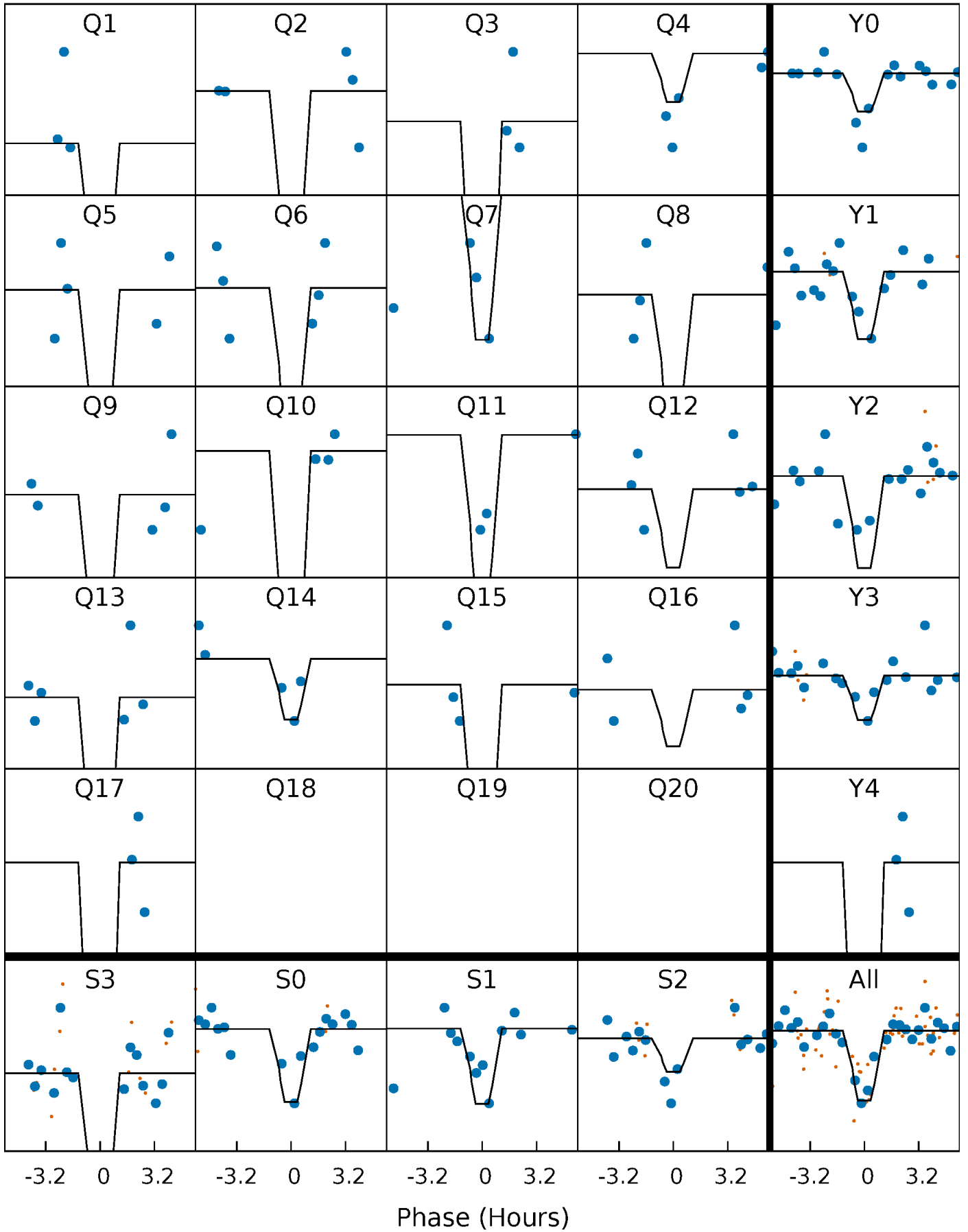
DV Quarter-Phased Transit Curves

TCE 007032001-02 P= 46.800195 Days $T_0=139.565379$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

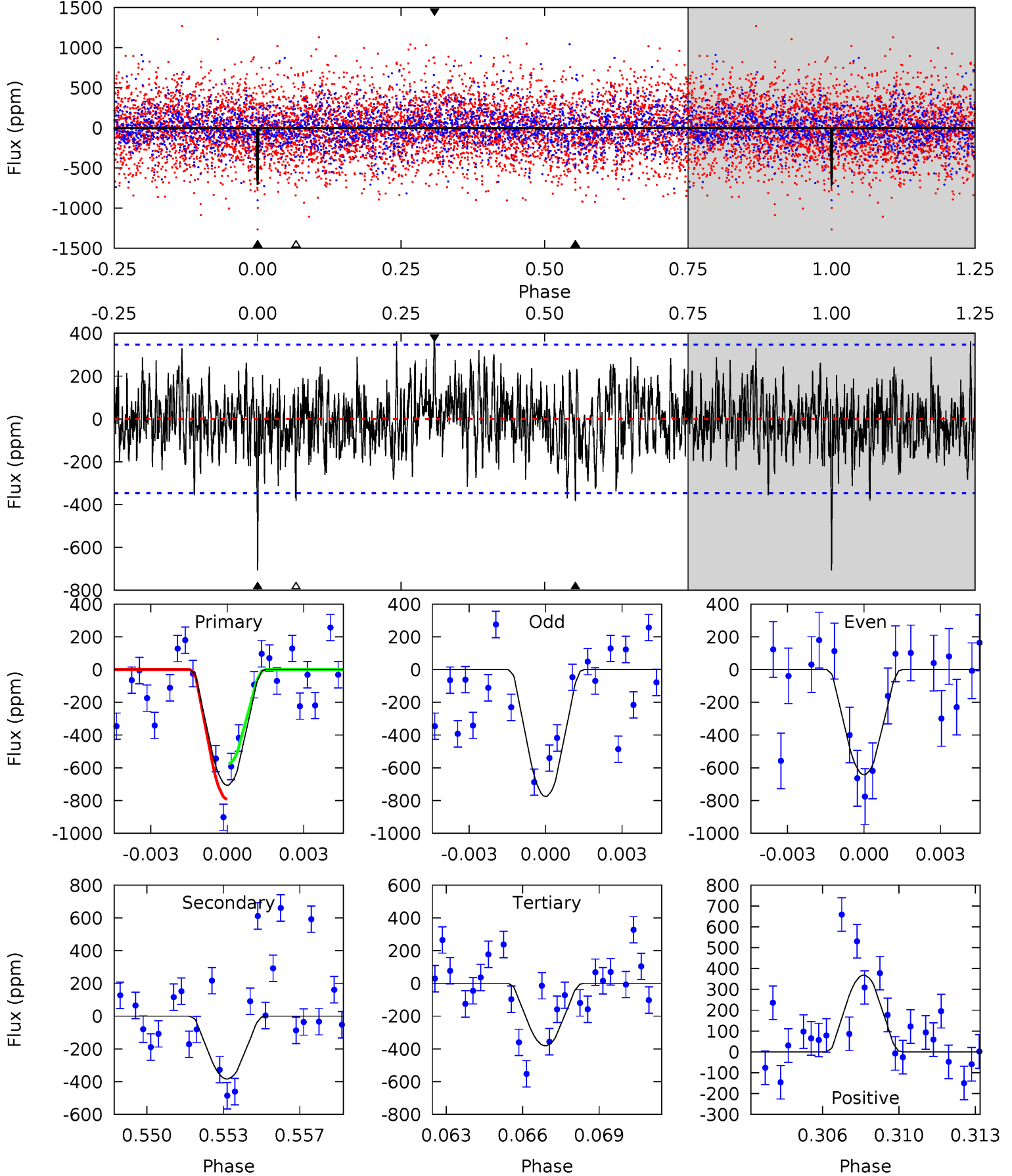
TCE 007032001-02 $P = 46.799526$ Days $T_0 = 139.573297$ (BKJD)



DV Model-Shift Uniqueness Test

007032001-02, P = 46.800195 Days, E = 92.765184 Days

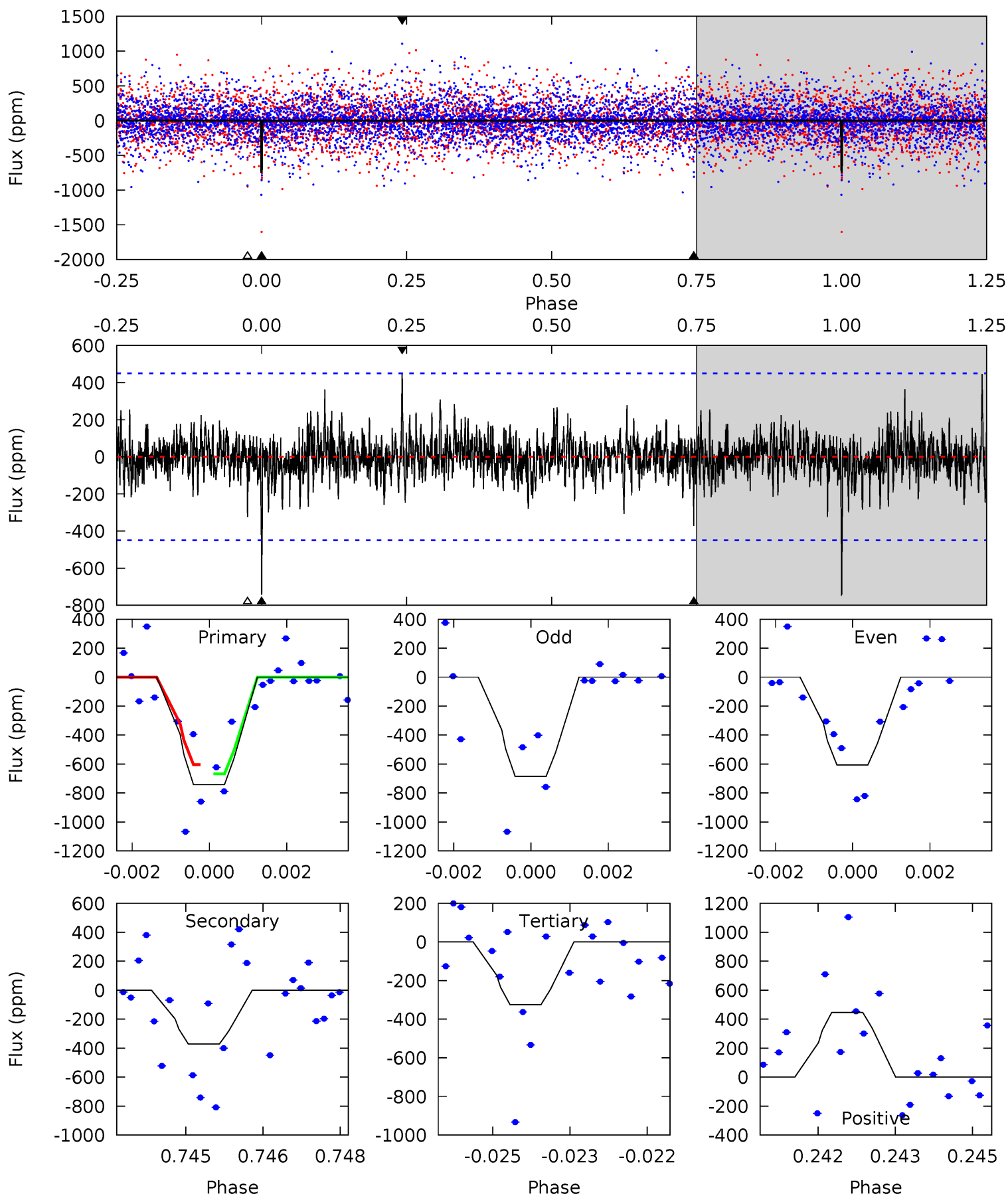
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	5.79	5.75	5.56	5.24	2.94	1.72	4.92	5.11	0.04	0.23	0.99	1.08	0.34	1.62



Alt Model-Shift Uniqueness Test

007032001-02, P = 46.799526 Days, E = 92.773771 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.84	4.43	3.87	5.32	5.36	3.14	1.00	4.98	3.52	0.56	-0.89	0.45	1.19	0.38	0



Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-384 ± 66	$18.23^{+18.36}_{-12.68}$	645^{+40}_{-27}	2570^{+1065}_{-391}	35^{+338}_{-27}
Alt.	-372 ± 84	$16.61^{+19.46}_{-11.30}$	644^{+41}_{-25}	2613^{+1013}_{-425}	39^{+355}_{-30}

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 $A_{obs} \gg 1.0$

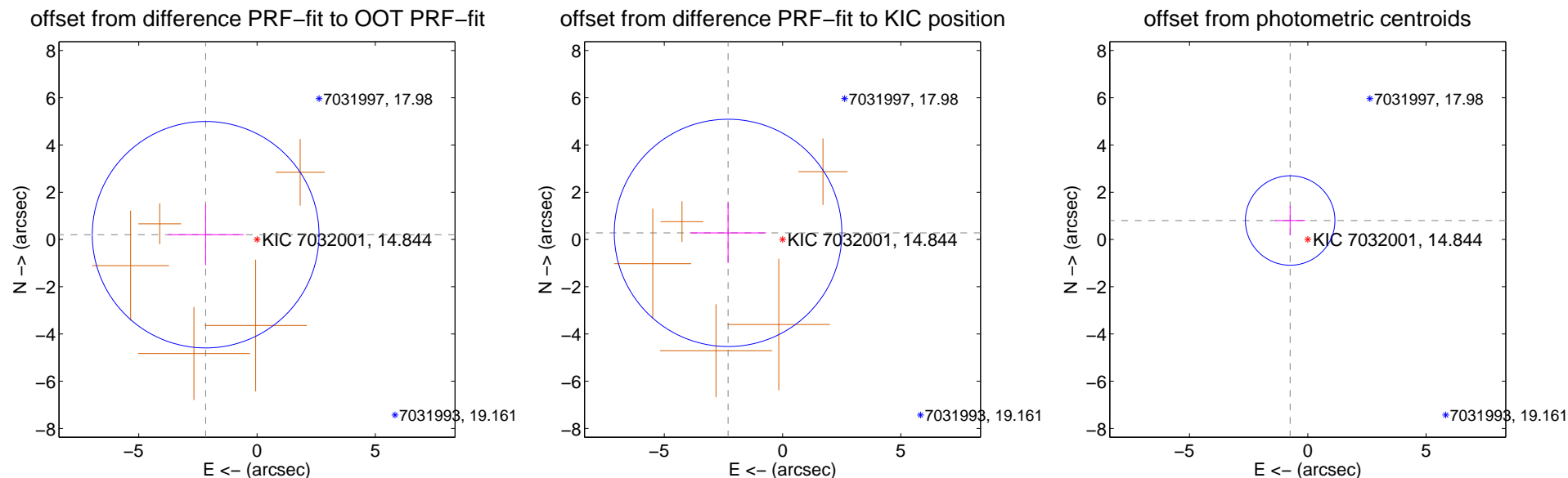
DV Centroid Data

Supplemental centroid analysis for 007032001-02. Kepler magnitude: 14.84. Transit SNR 11.85

There are 0 quarters with good PRF difference image offsets

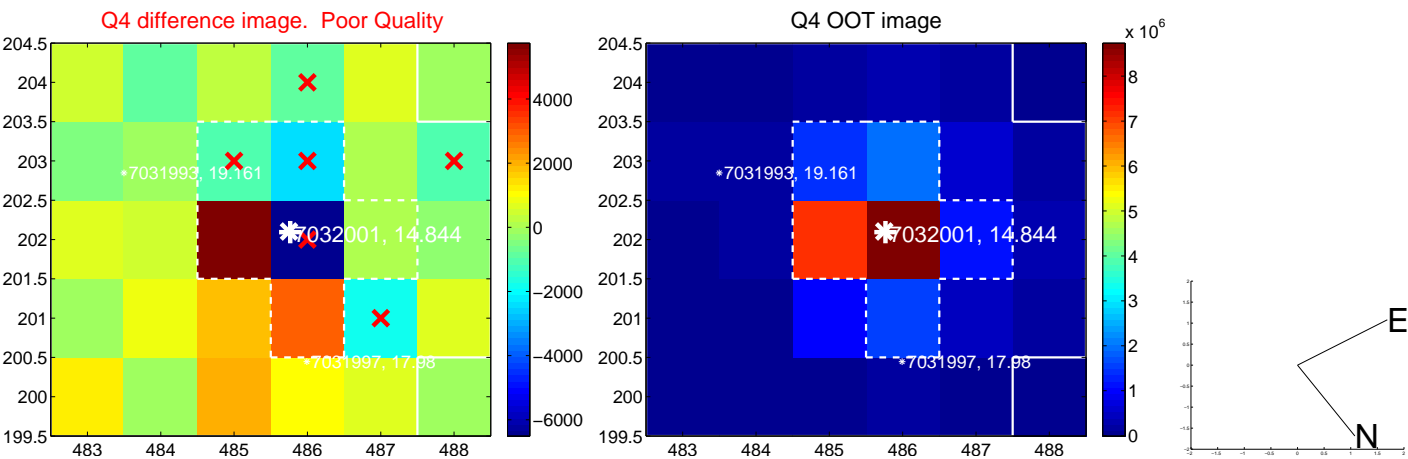
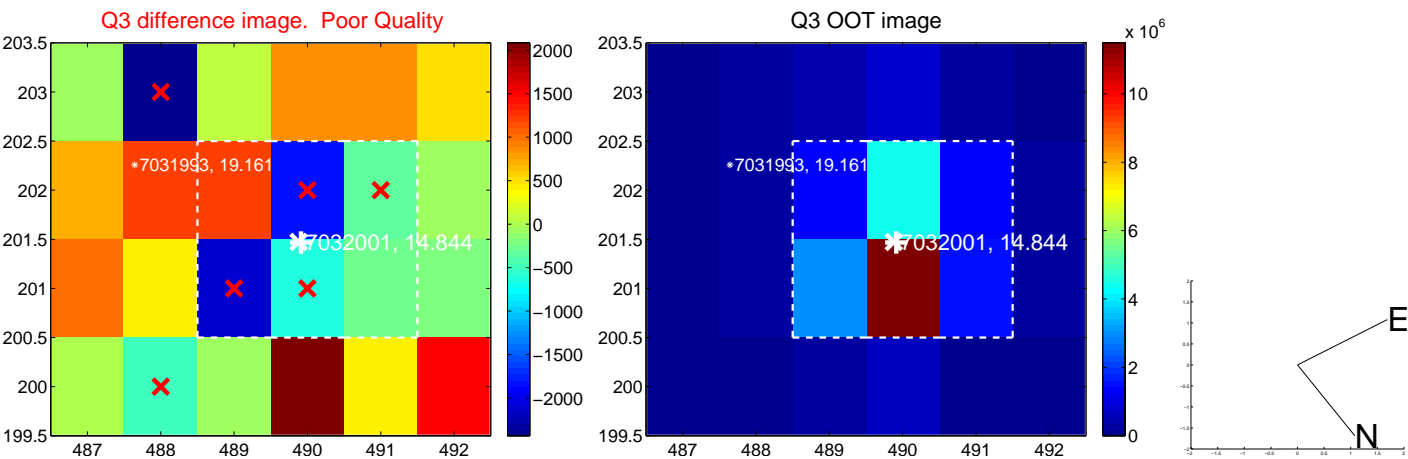
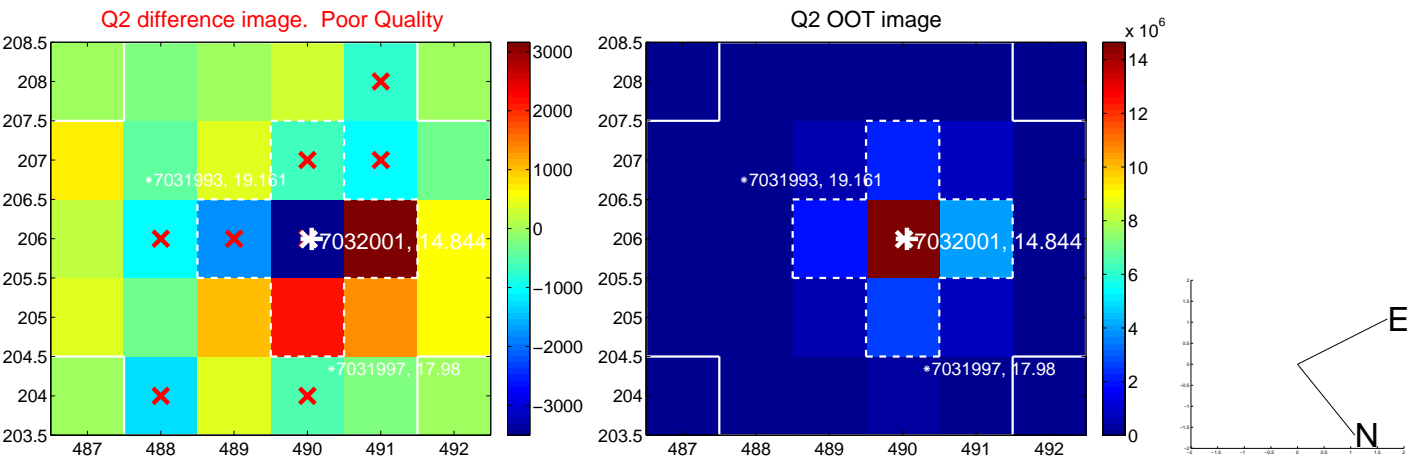
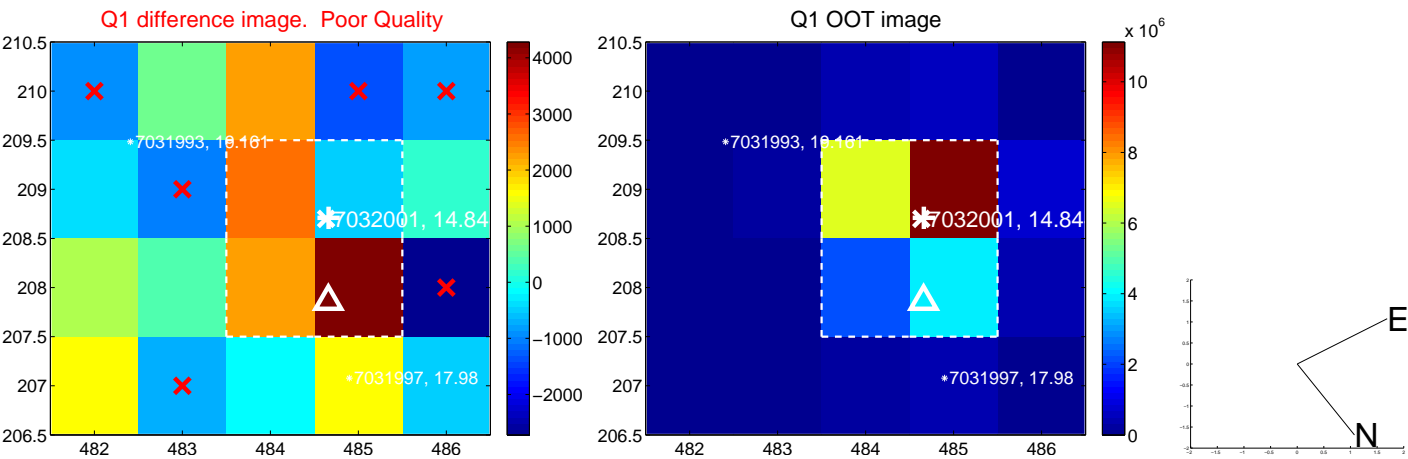
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.182 ± 1.597	1.37	2.173 ± 1.600	0.202 ± 1.288
PRF-fit source offset from KIC position	2.320 ± 1.603	1.45	2.304 ± 1.608	0.279 ± 1.274
photometric centroid source offset	1.10 ± 0.63	1.74	0.74 ± 0.64	0.80 ± 0.63

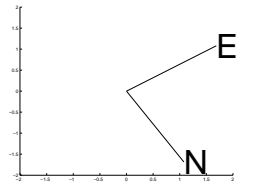
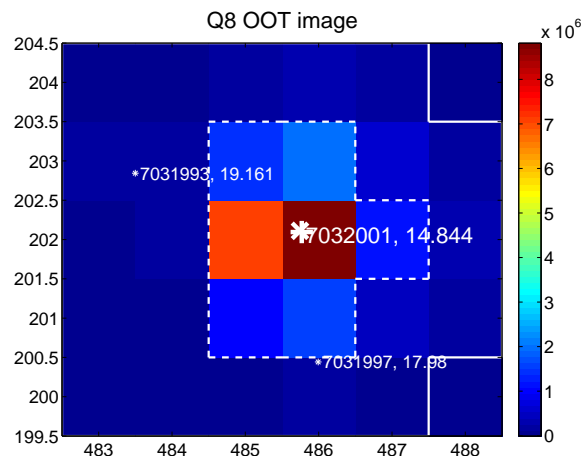
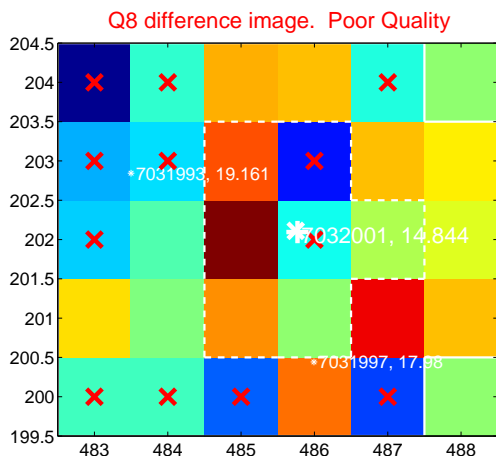
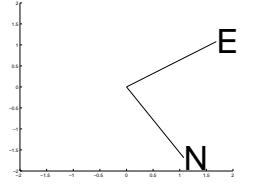
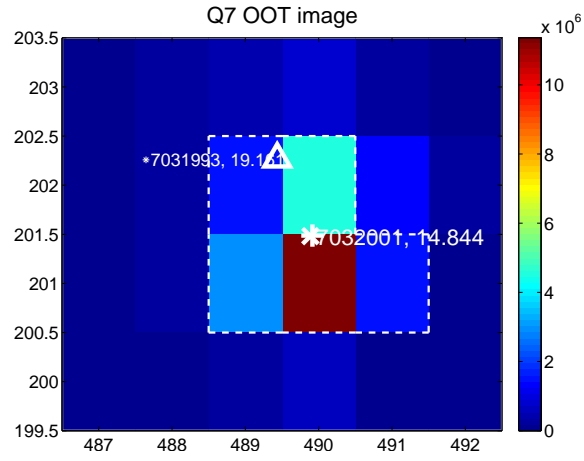
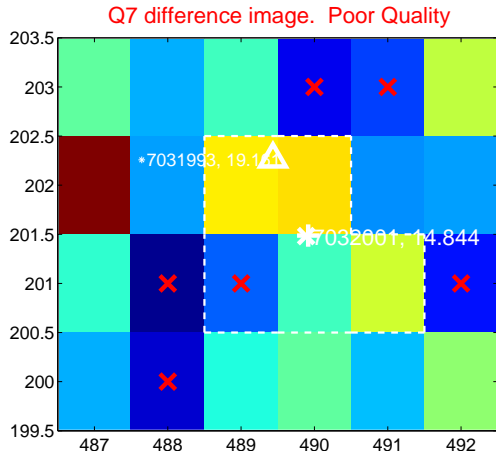
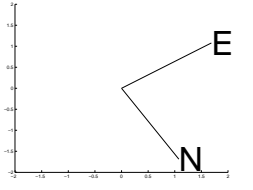
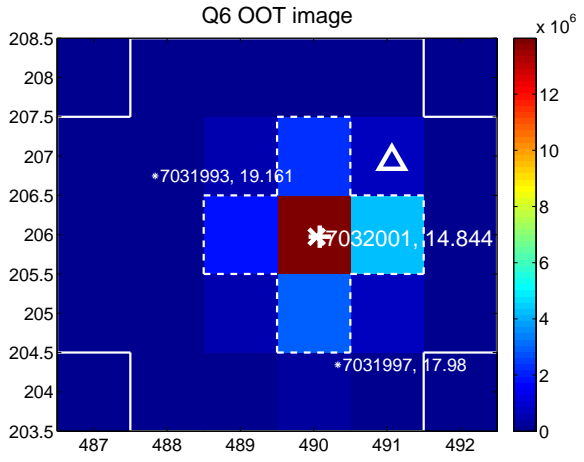
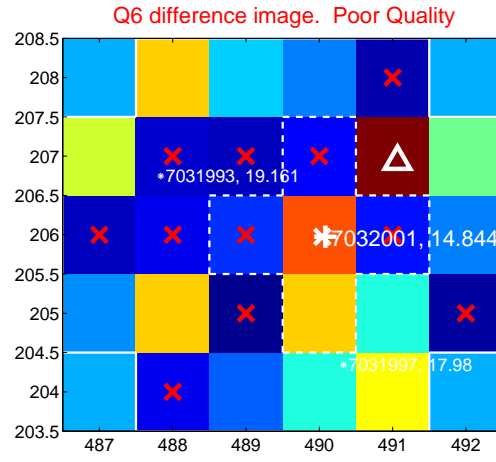
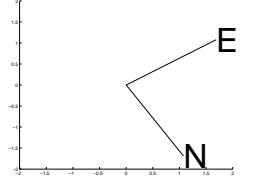
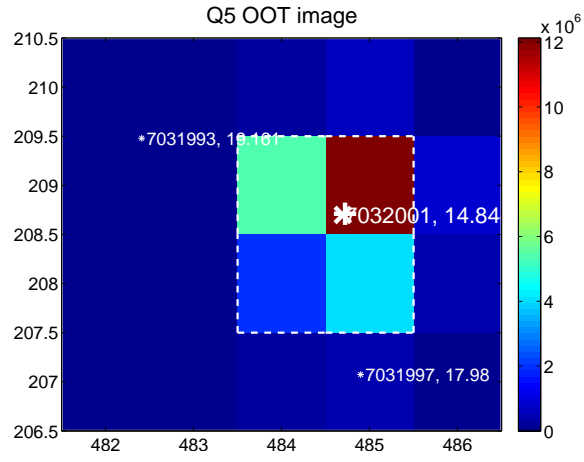
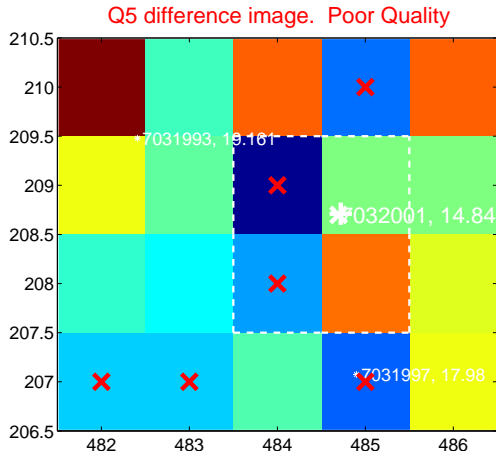


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

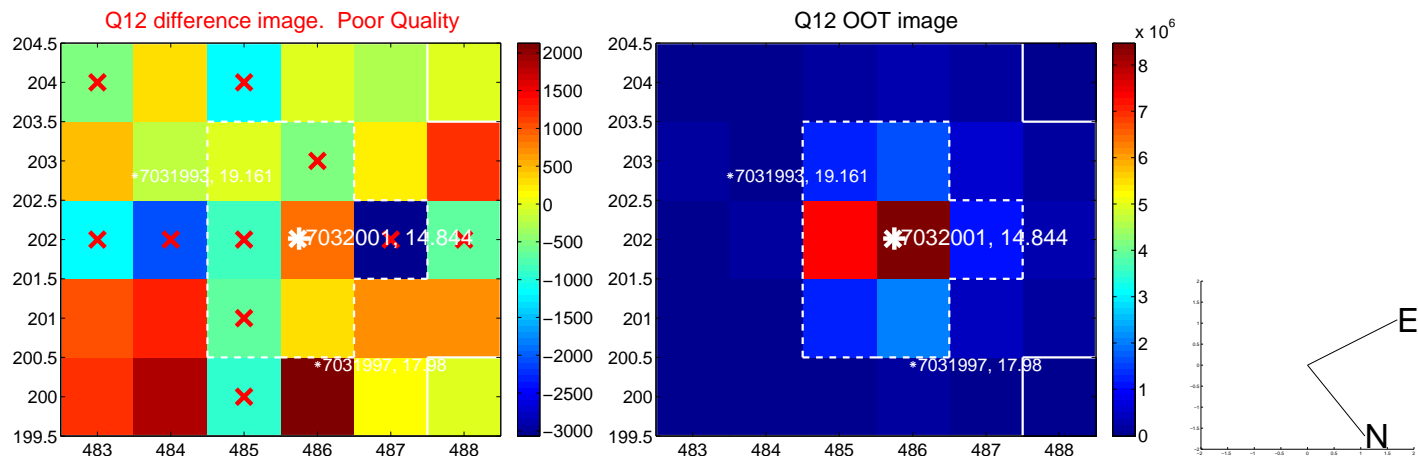
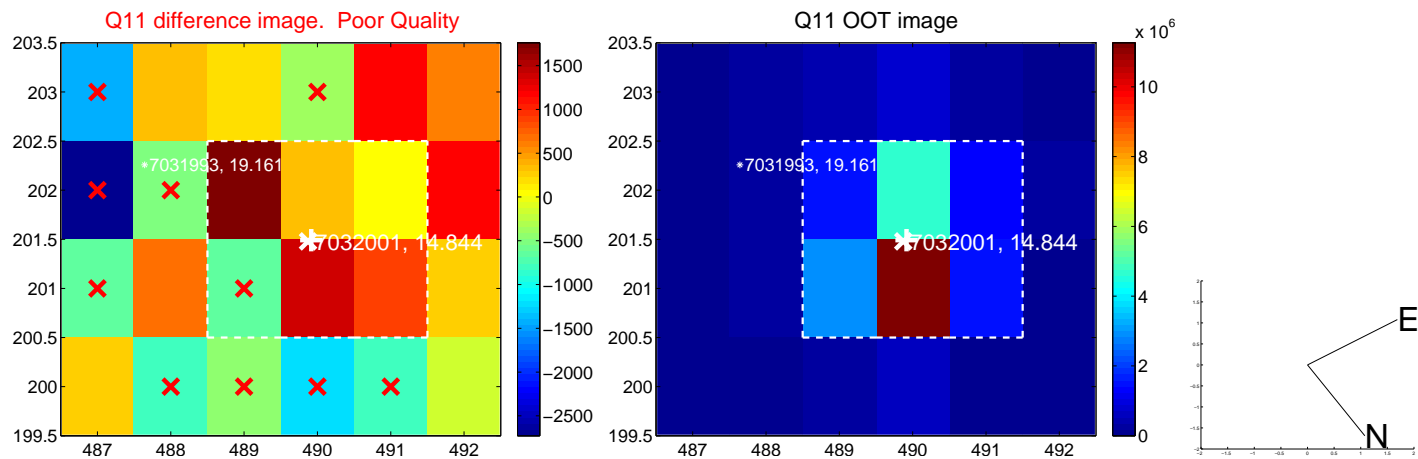
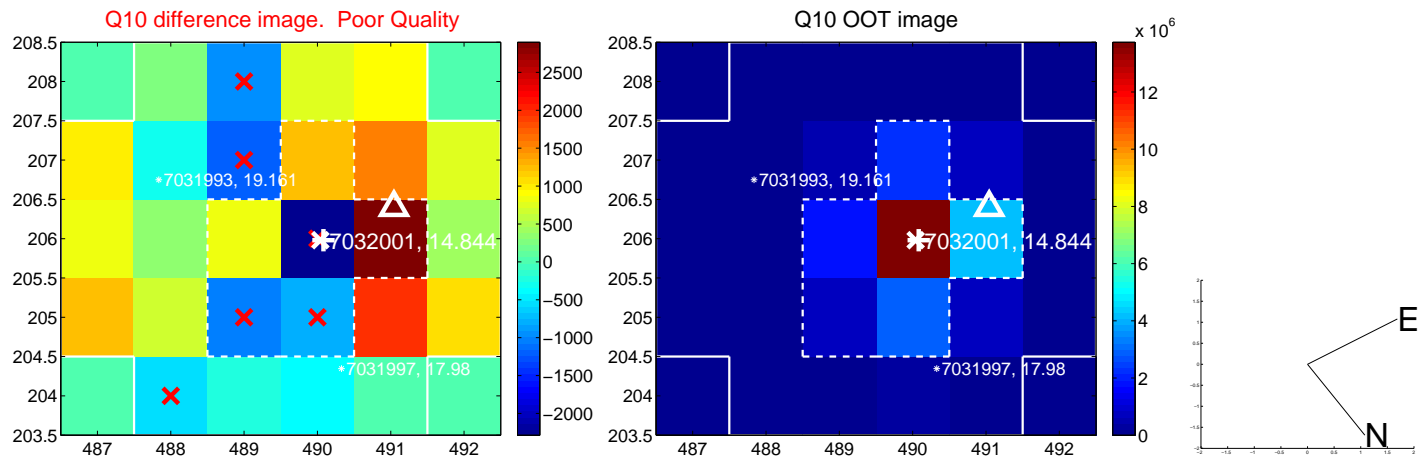
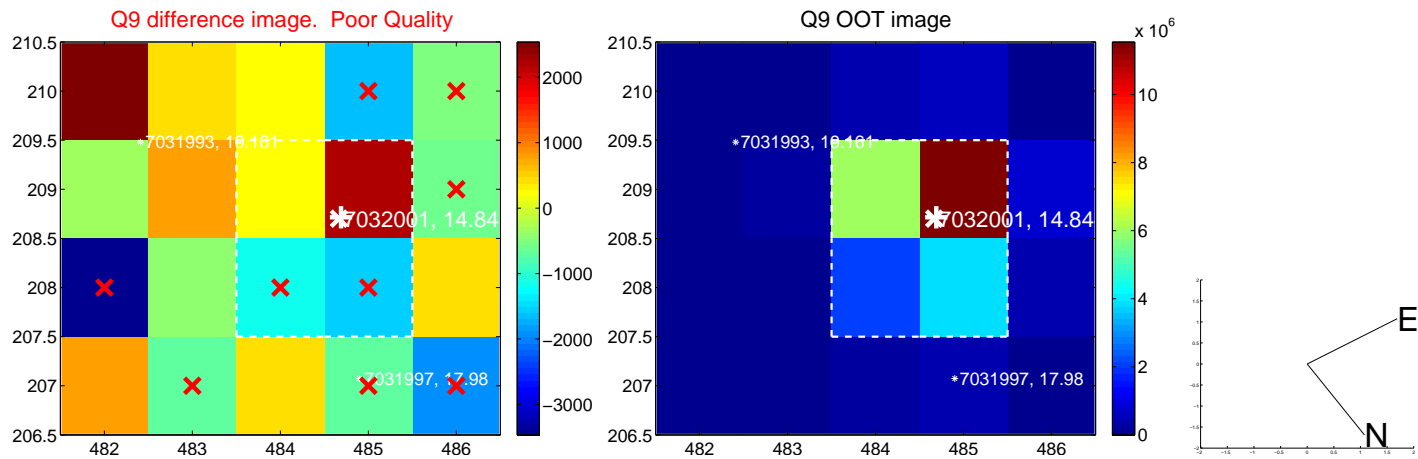
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



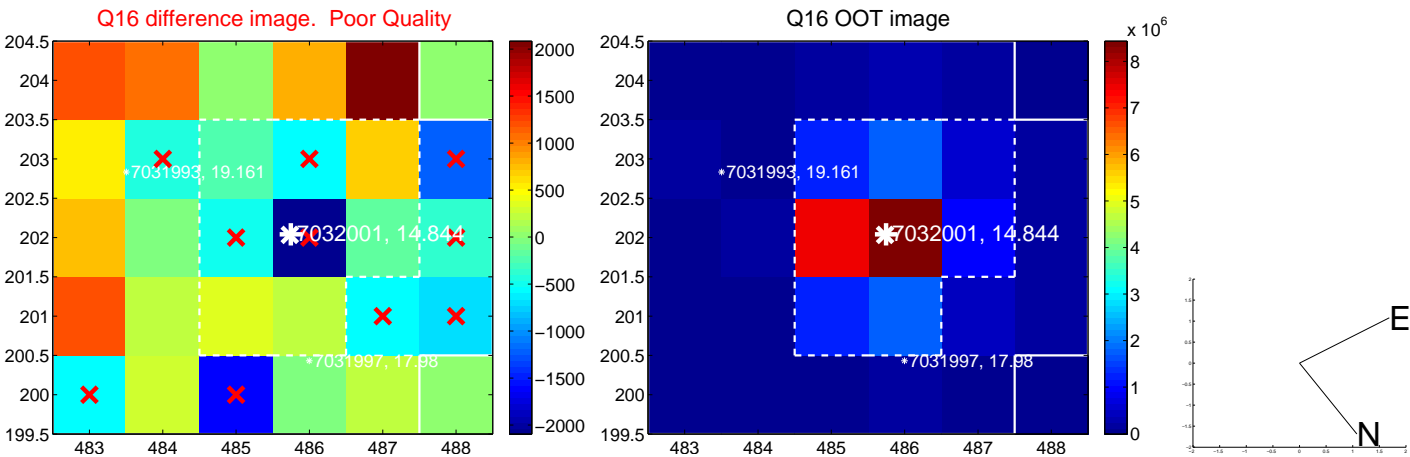
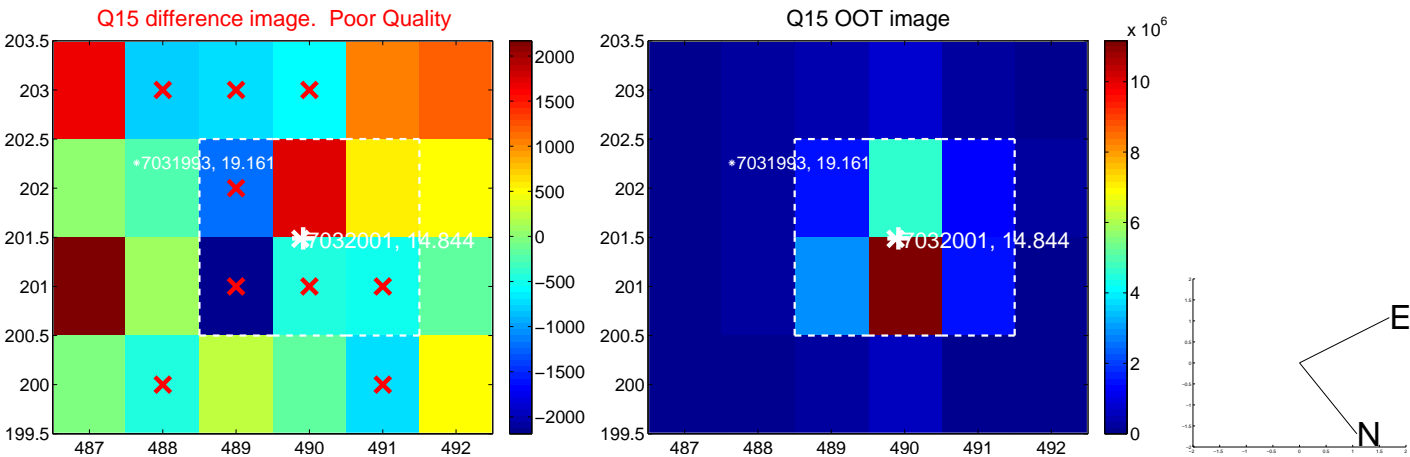
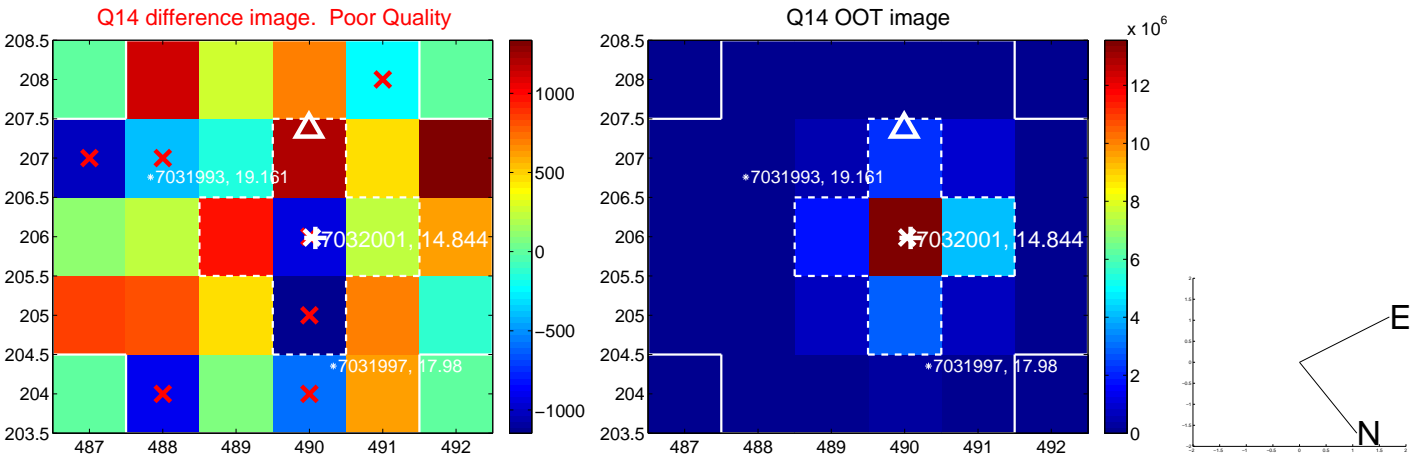
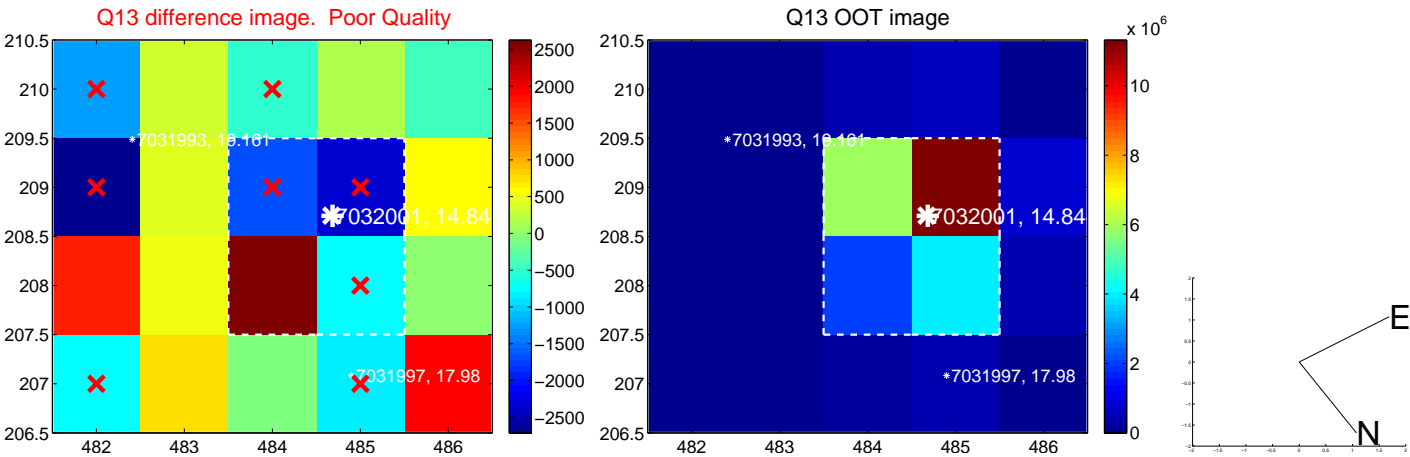
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



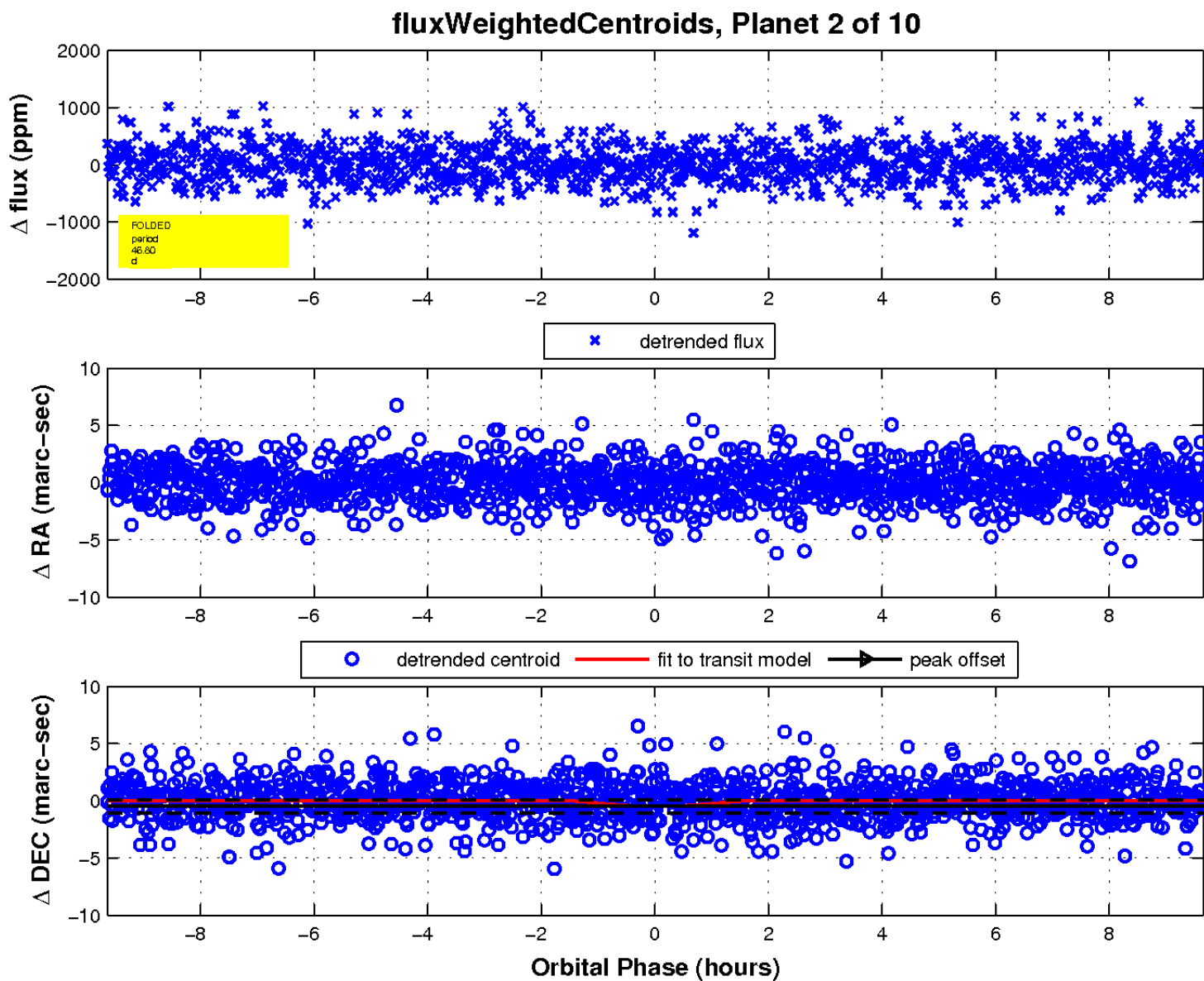
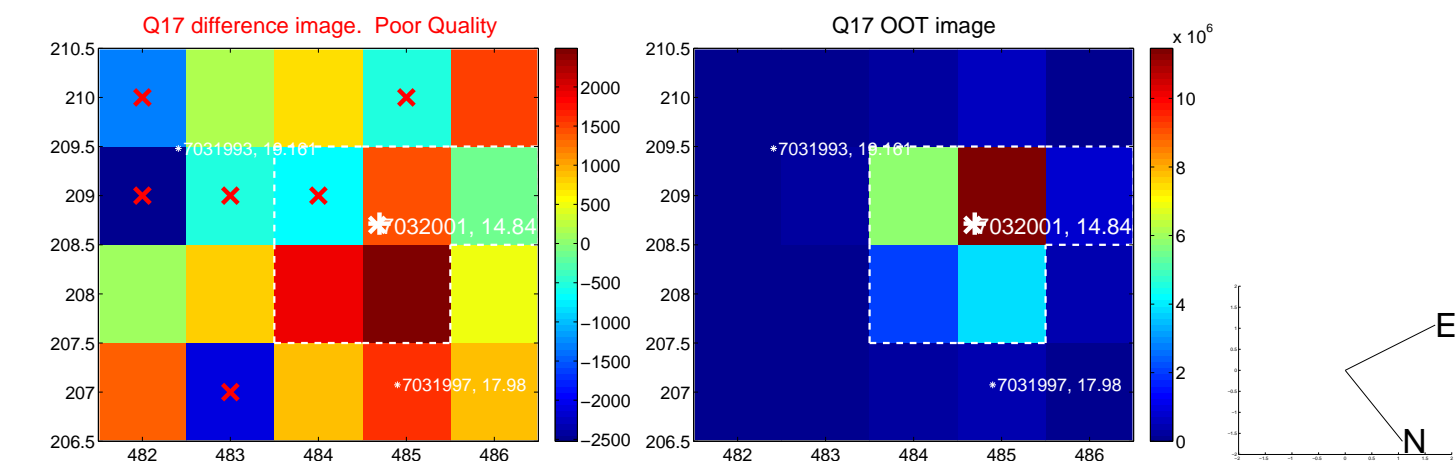
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

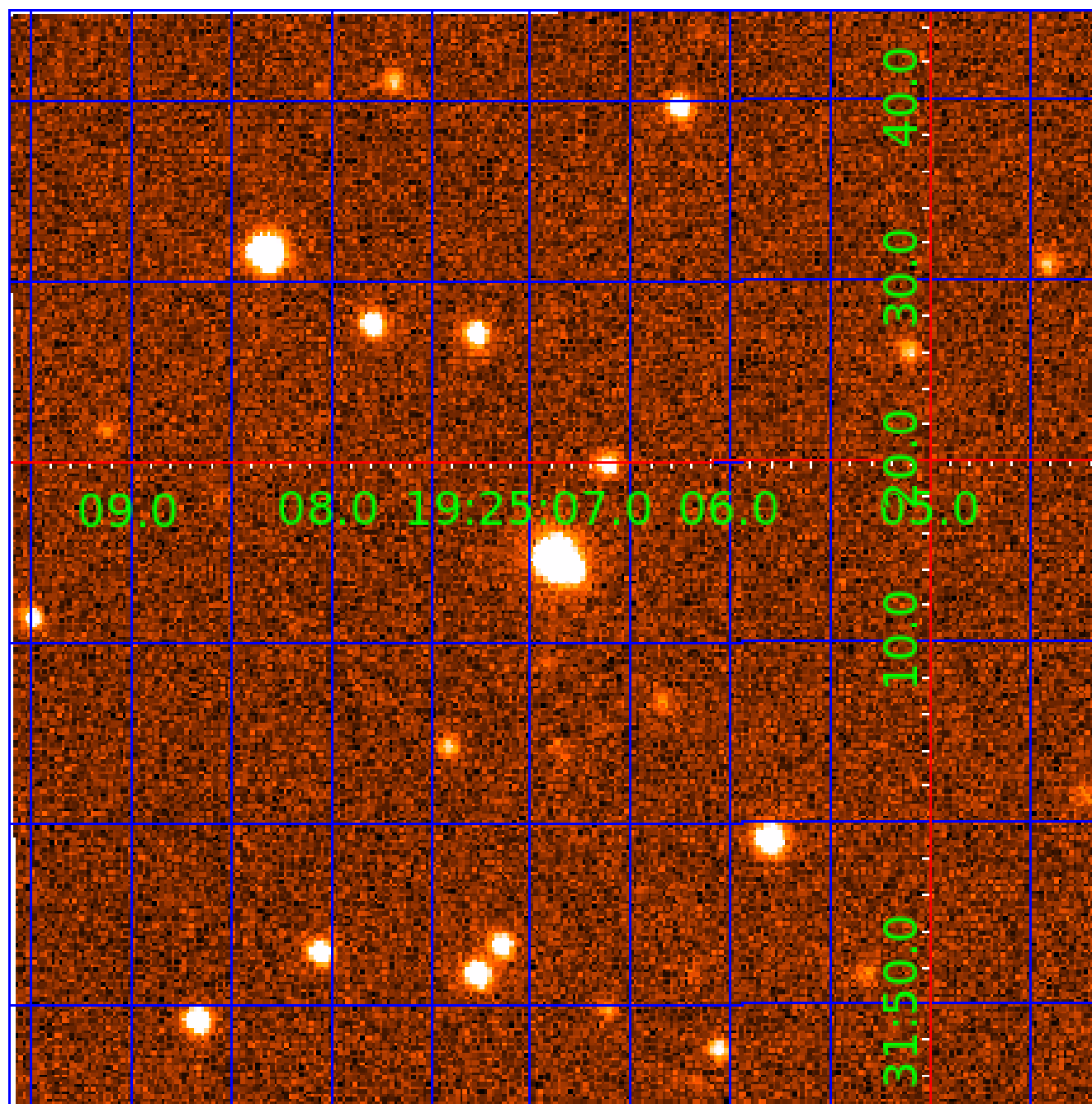


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

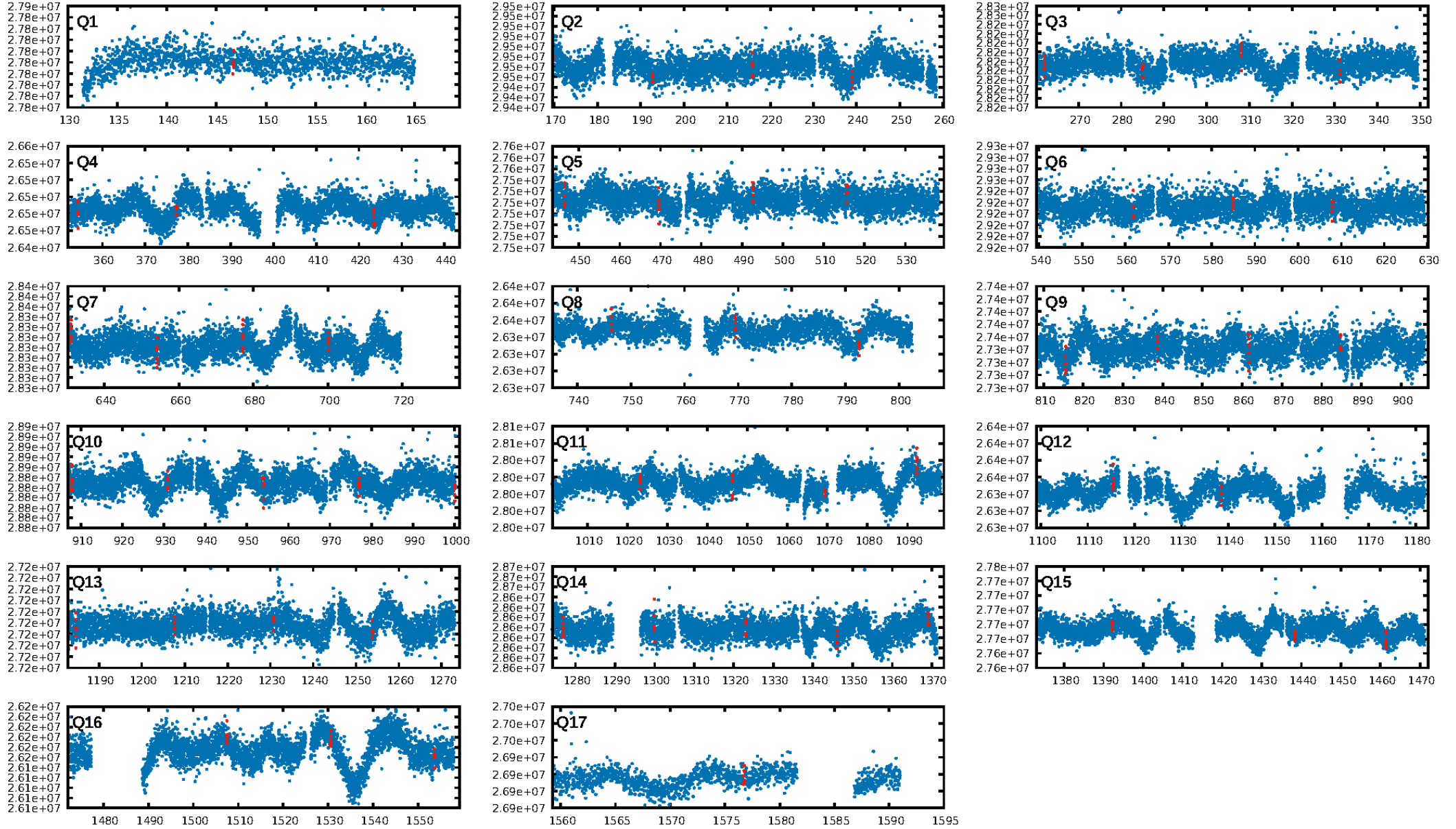
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007032001-03

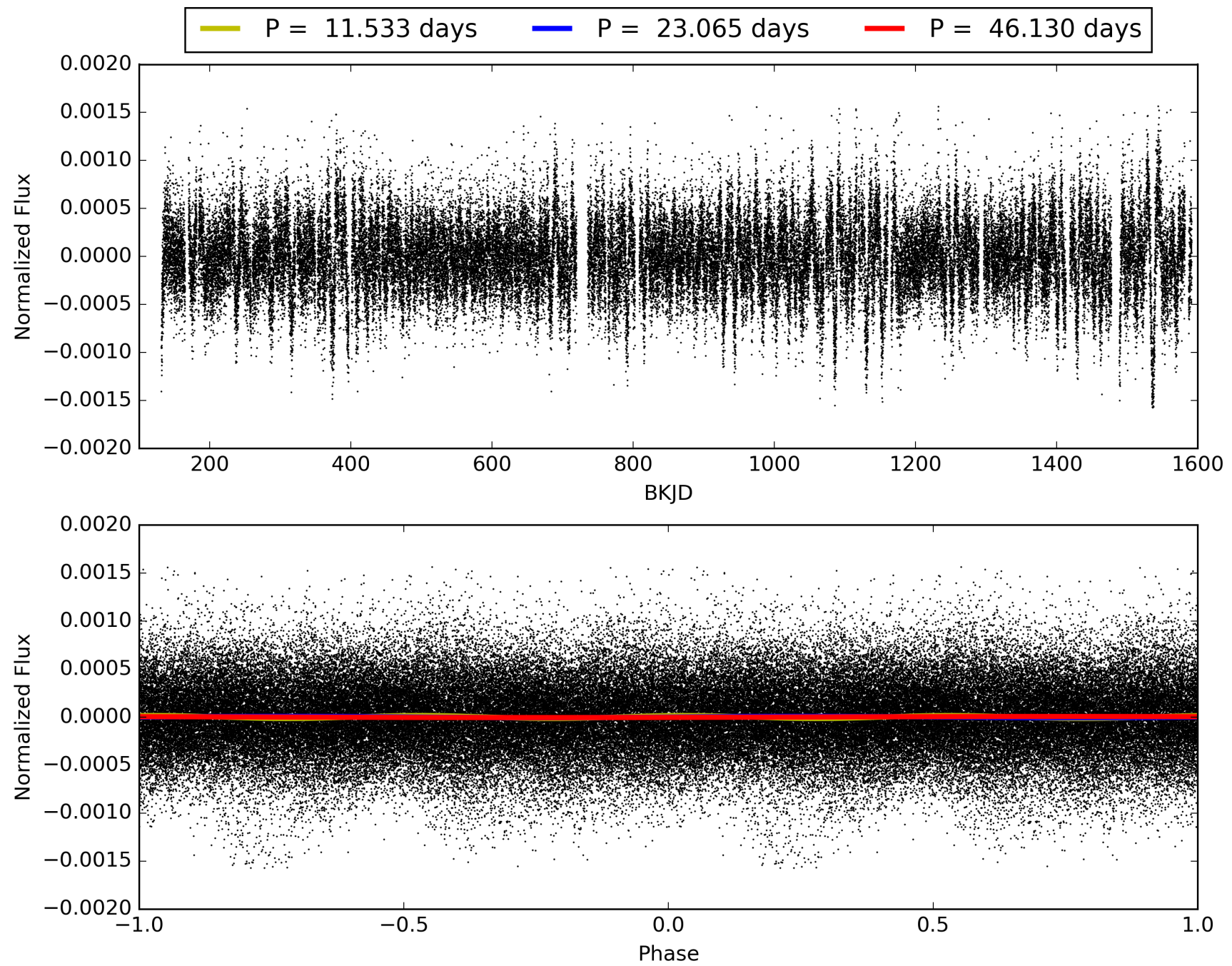
No Significant Match Found

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

TCE 007032001-03, PDC Light Curves

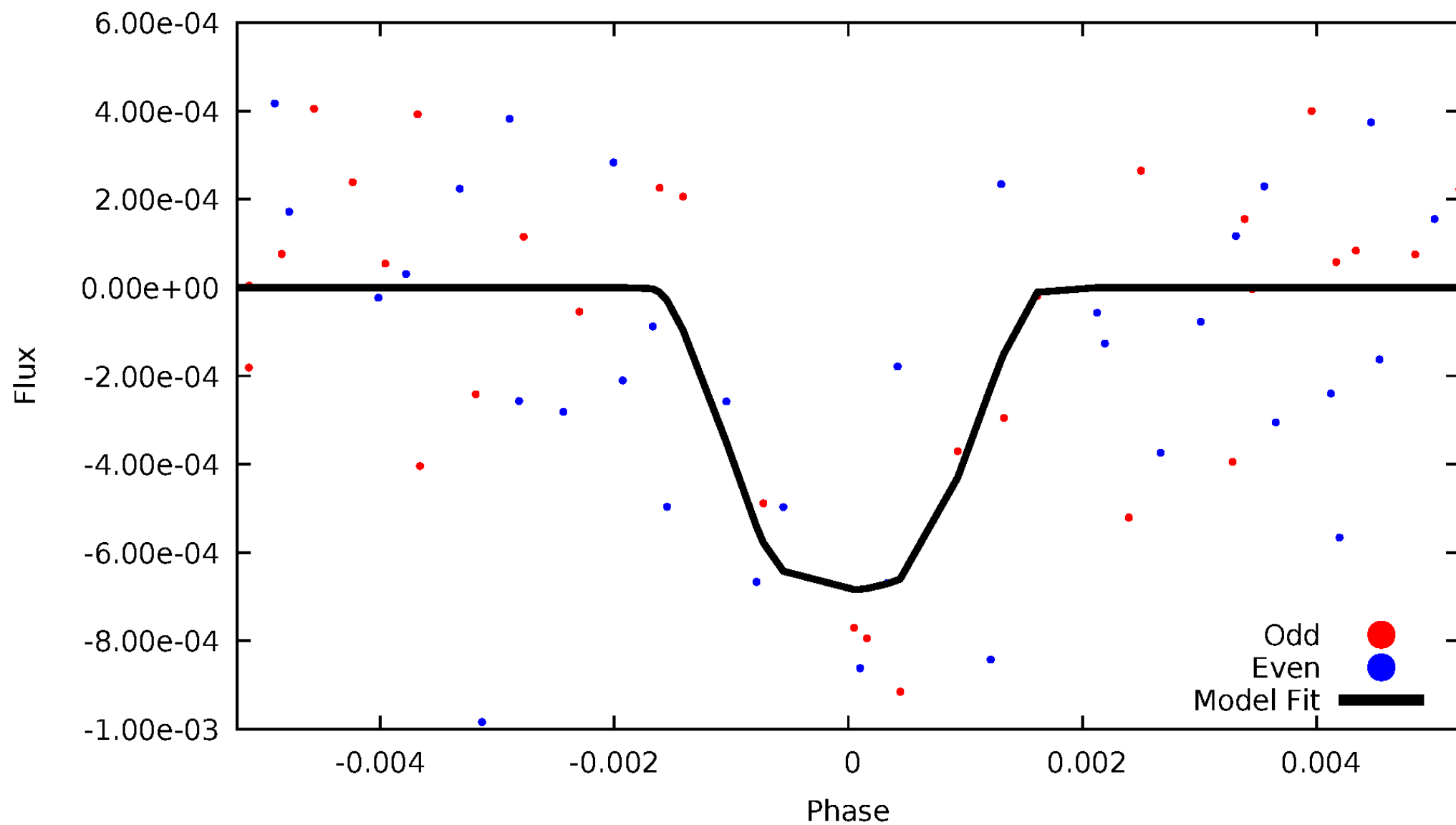


TCE 007032001-03



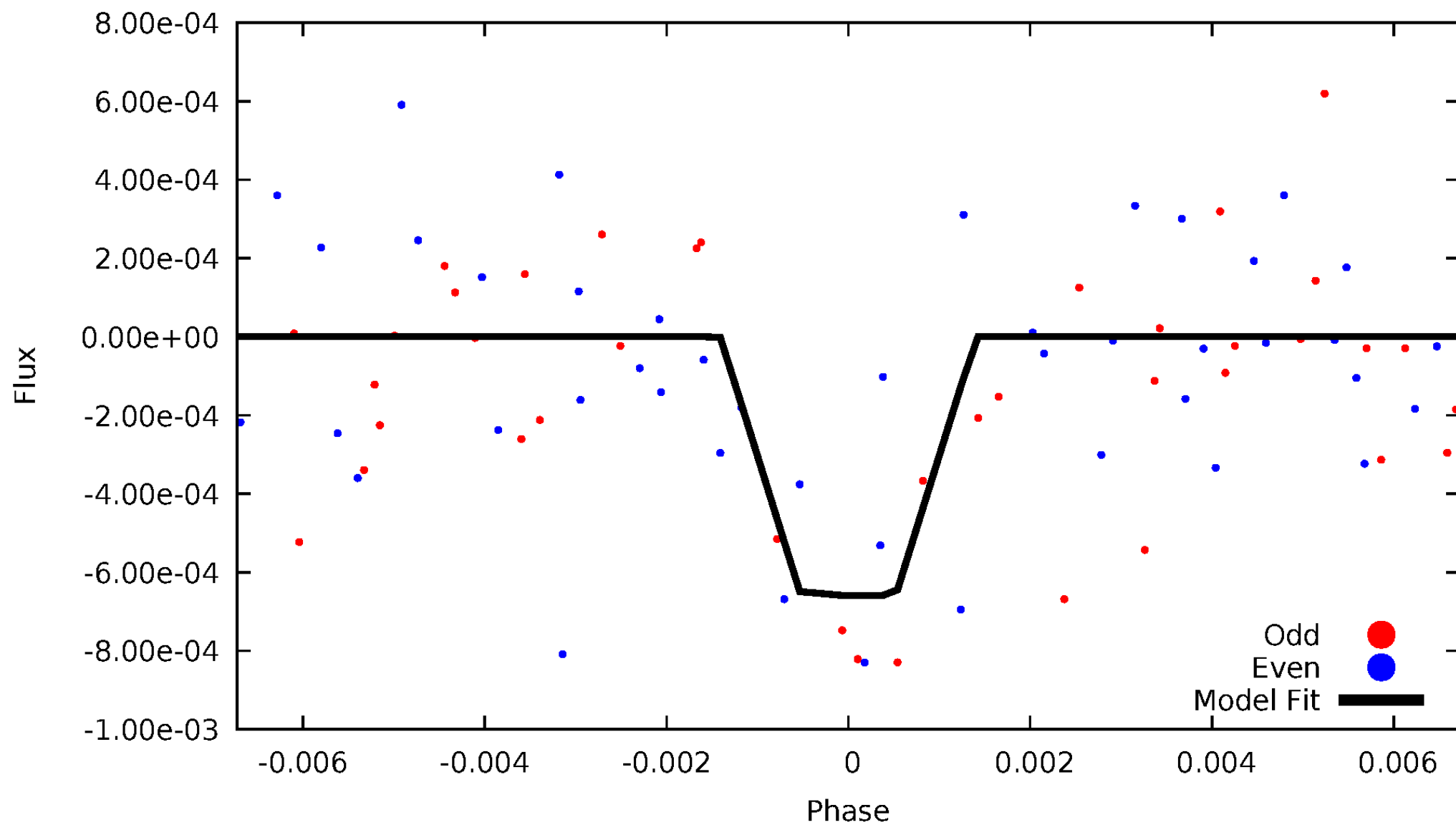
DV Odd/Even

TCE 007032001-03



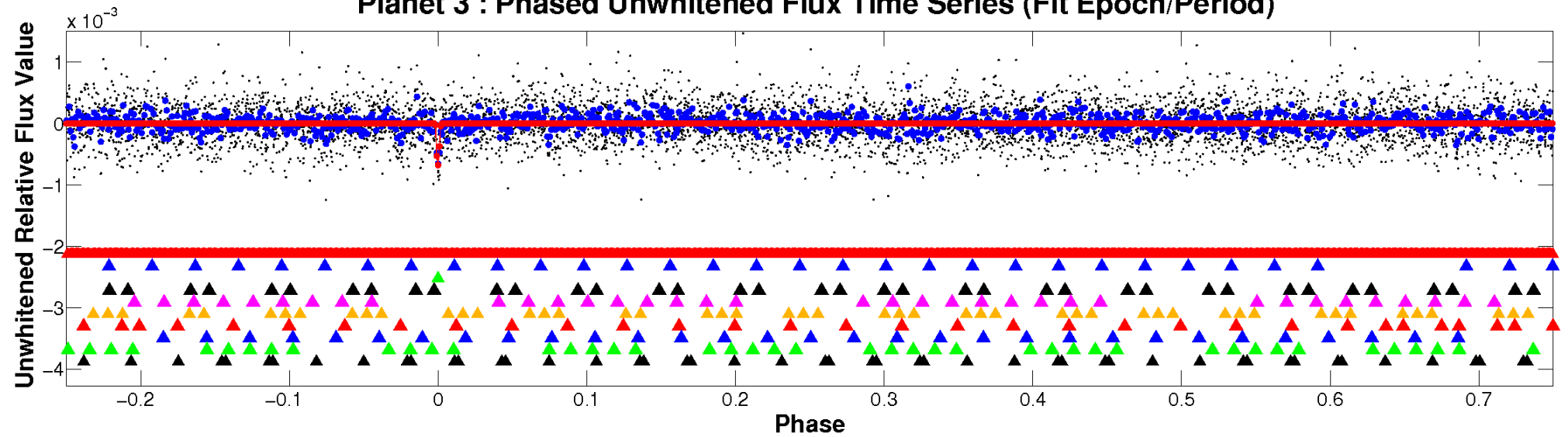
ALT Odd/Even

TCE 007032001-03

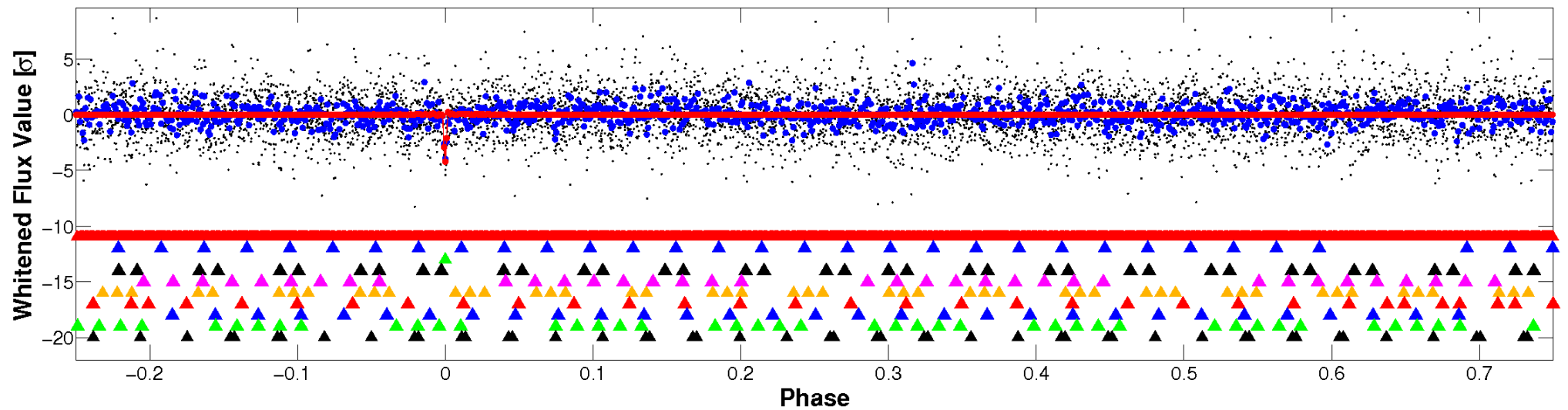


Non-Whitened Vs. Whitened Light Curve

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

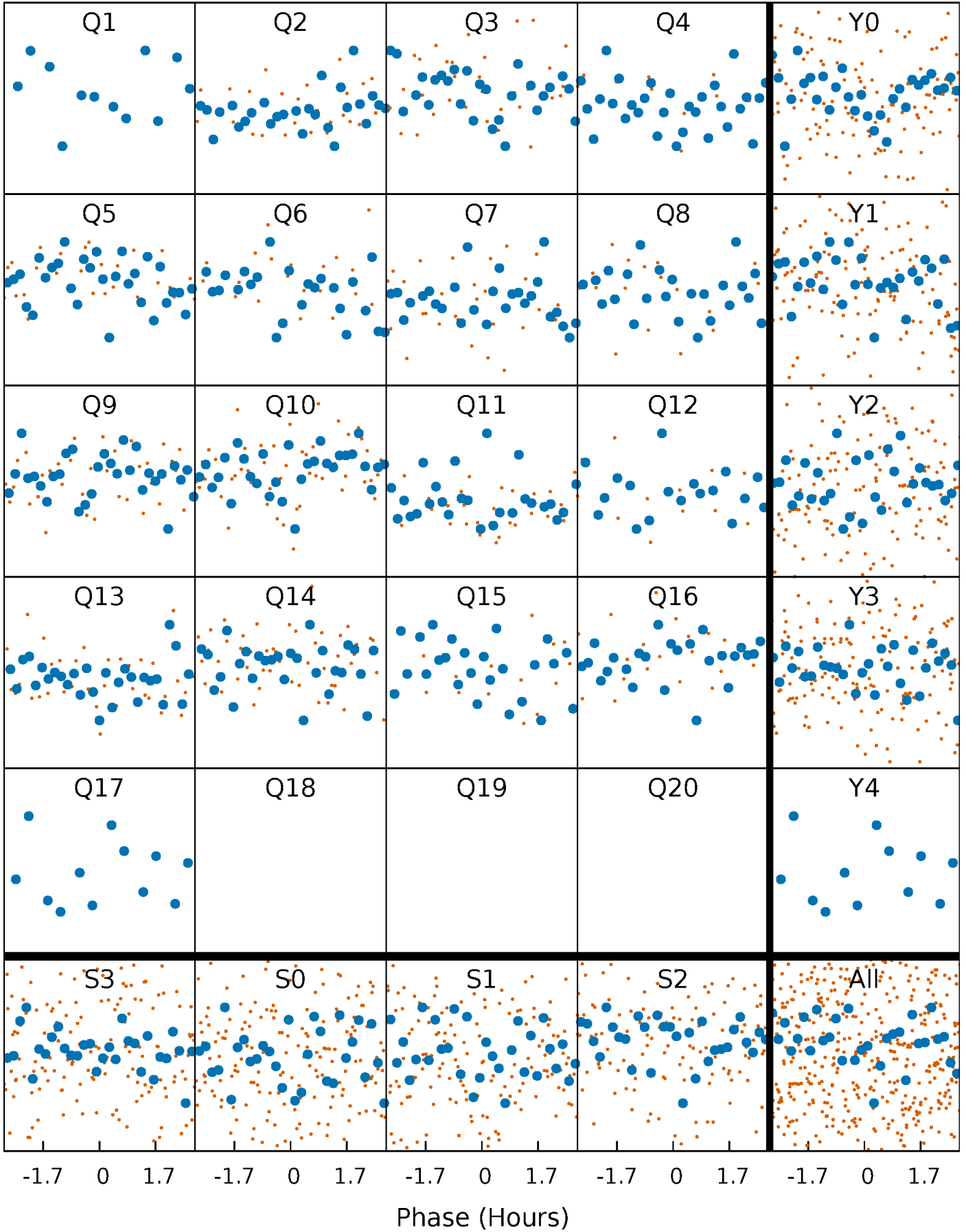


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



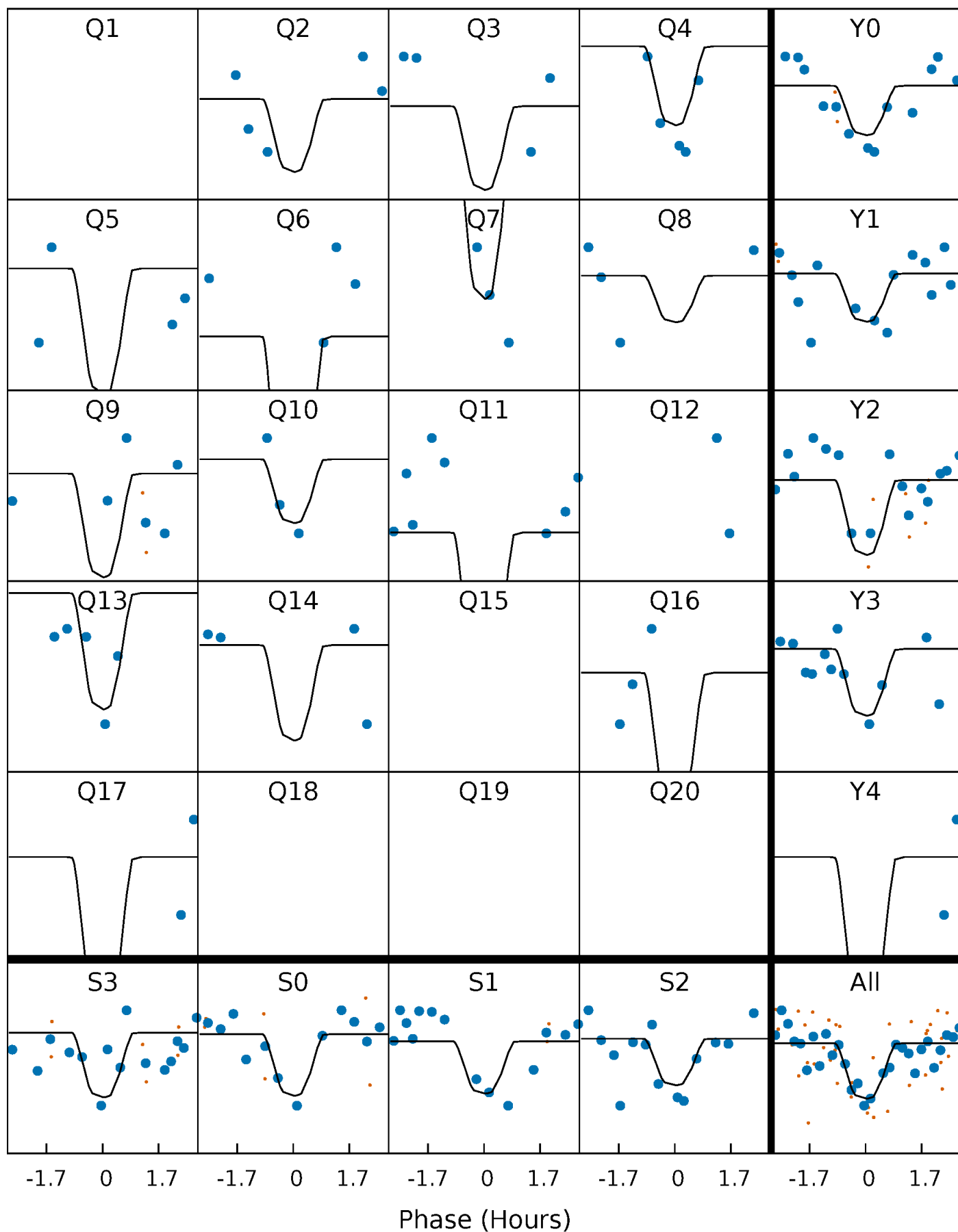
PDC Quarter-Phased Transit Curves

TCE 007032001-03 $P = 23.065248$ Days $T_0 = 146.679429$ (BKJD)



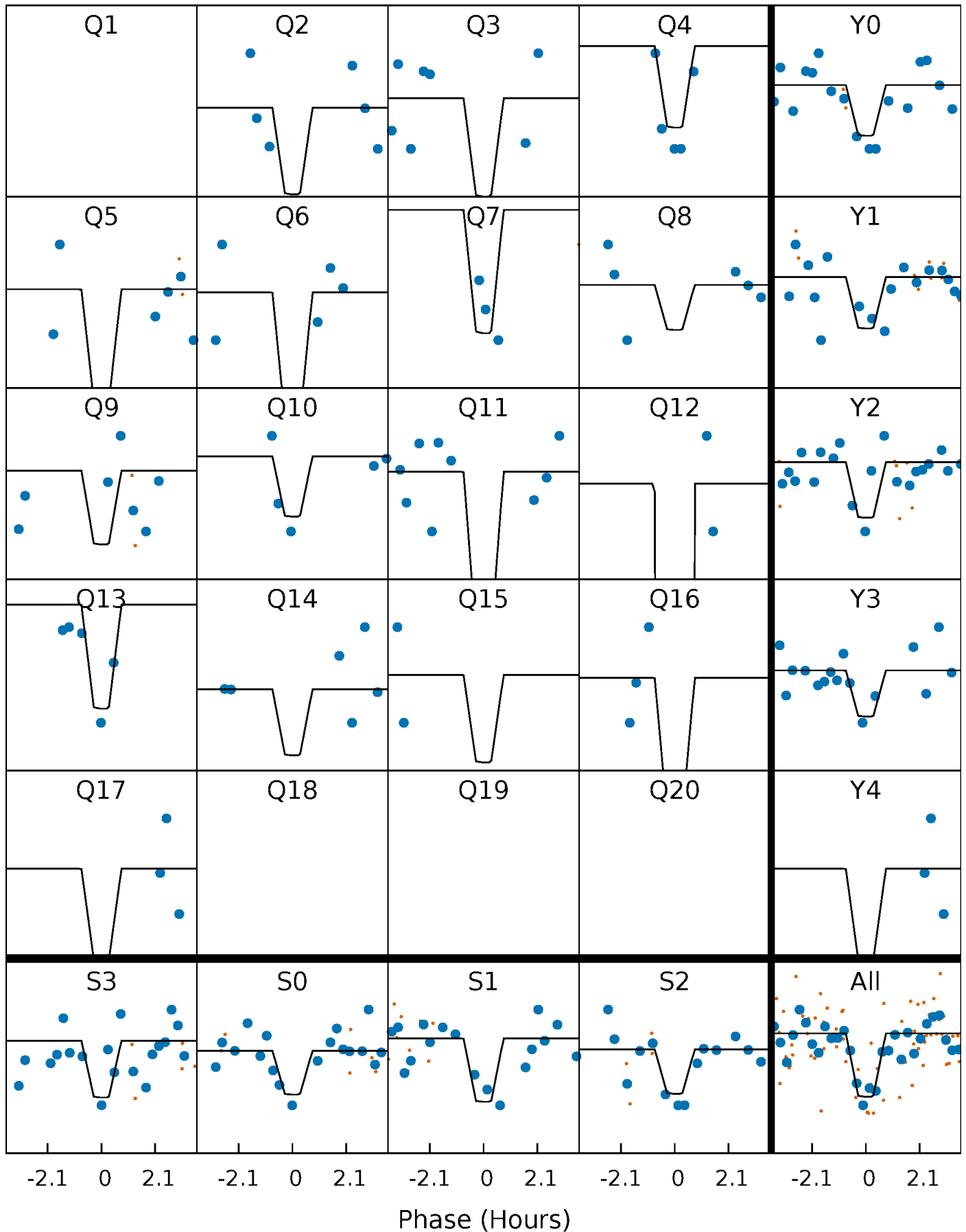
DV Quarter-Phased Transit Curves

TCE 007032001-03 P= 23.065248 Days $T_0=146.679429$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

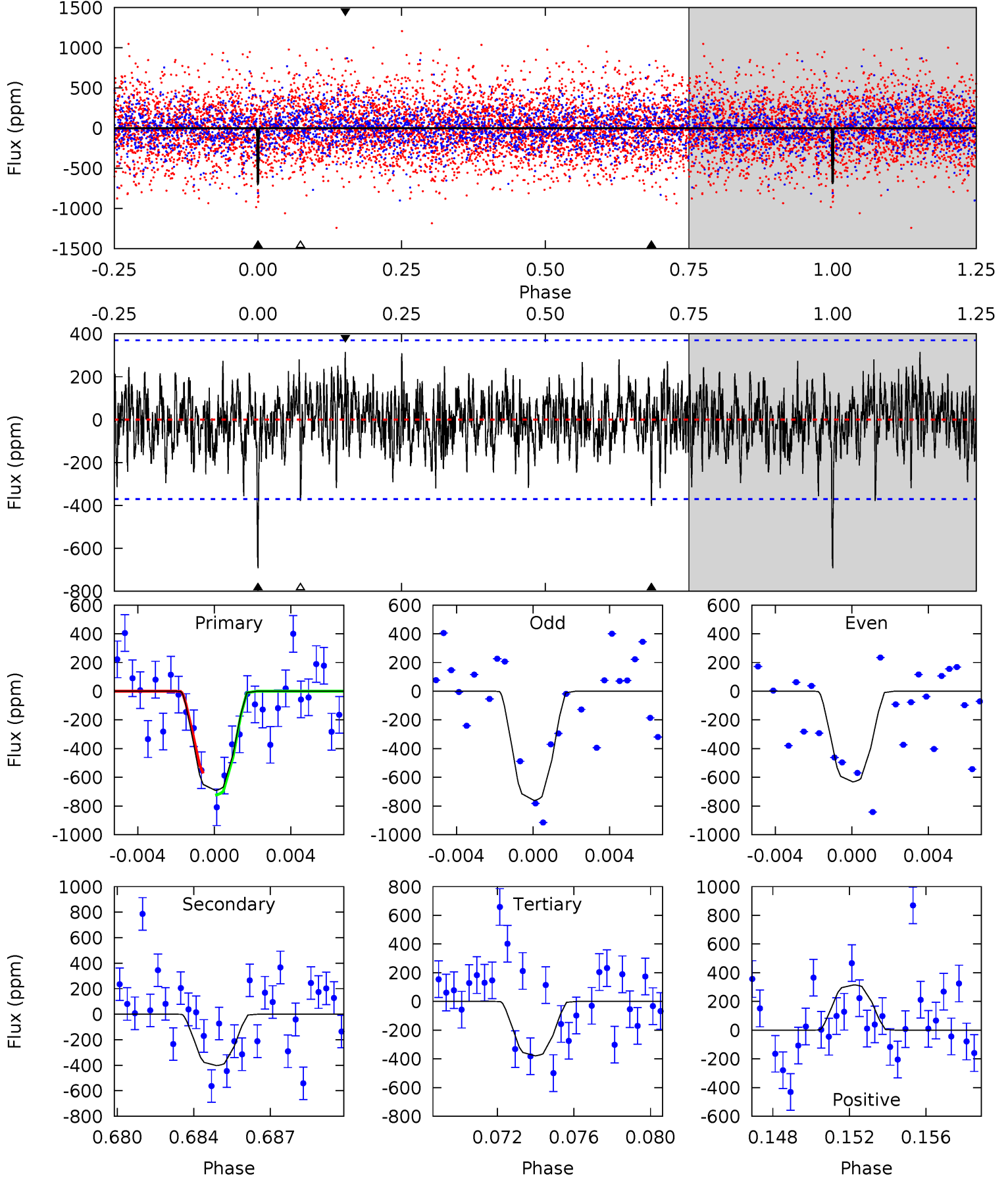
TCE 007032001-03 P= 23.065385 Days $T_0=146.675937$ (BKJD)



DV Model-Shift Uniqueness Test

007032001-03, P = 23.065248 Days, E = 123.614181 Days

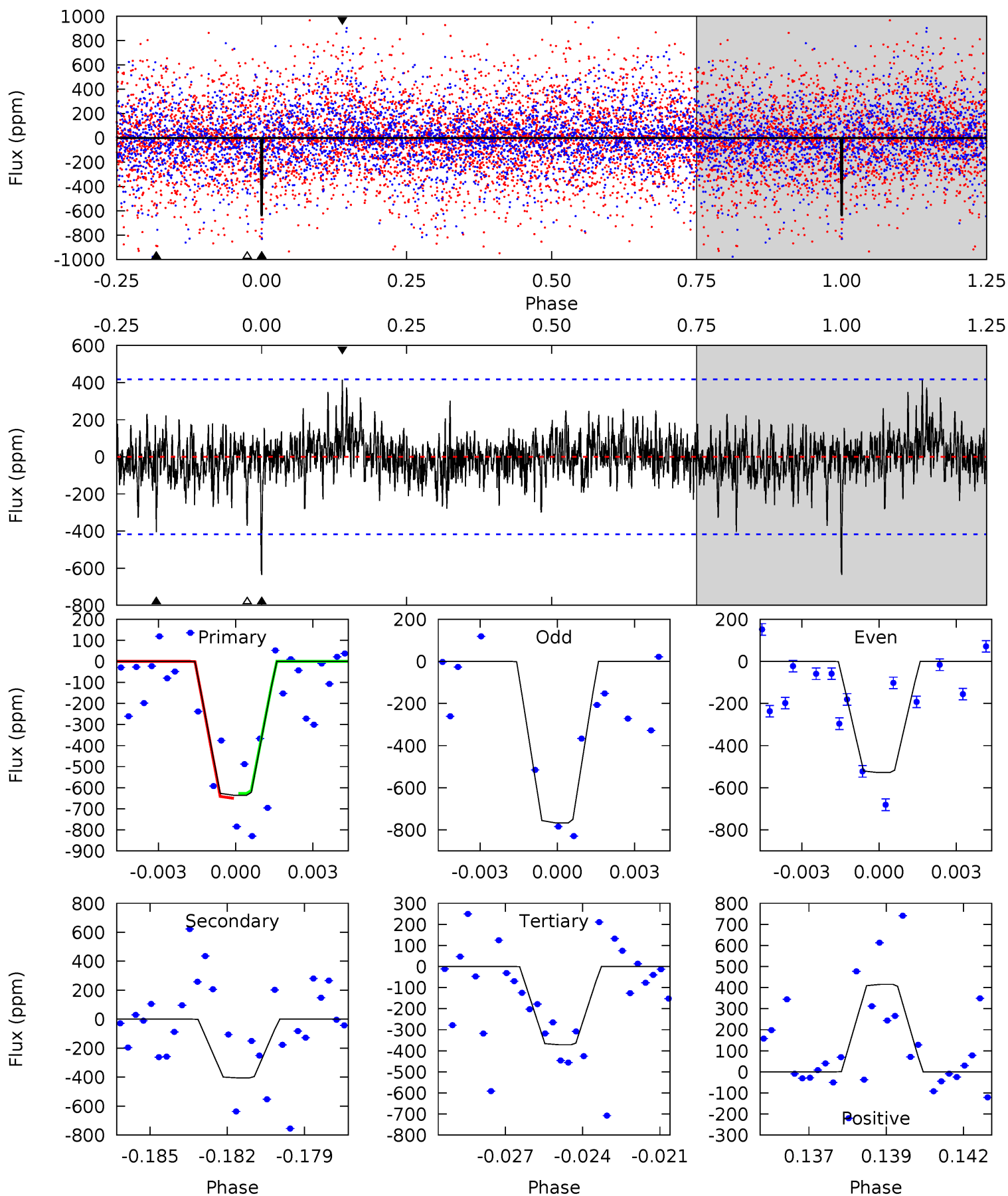
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.74	5.66	5.32	4.44	5.21	2.89	1.47	4.41	5.30	0.34	1.22	0.92	0.95	0.31	1.04



Alt Model-Shift Uniqueness Test

007032001-03, P = 23.065385 Days, E = 123.610552 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.02	5.11	4.68	5.23	5.27	3.00	1.17	3.34	2.78	0.43	-0.12	1.49	0.84	0.39	0.15



Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-402 ± 71	$2.62^{+1.57}_{-1.57}$	813^{+45}_{-31}	4813^{+2647}_{-851}	724^{+3940}_{-462}
Alt.	-405 ± 79	$2.50^{+1.48}_{-1.47}$	816^{+44}_{-32}	4870^{+2729}_{-818}	747^{+4116}_{-446}

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 $A_{obs} \gg 1.0$

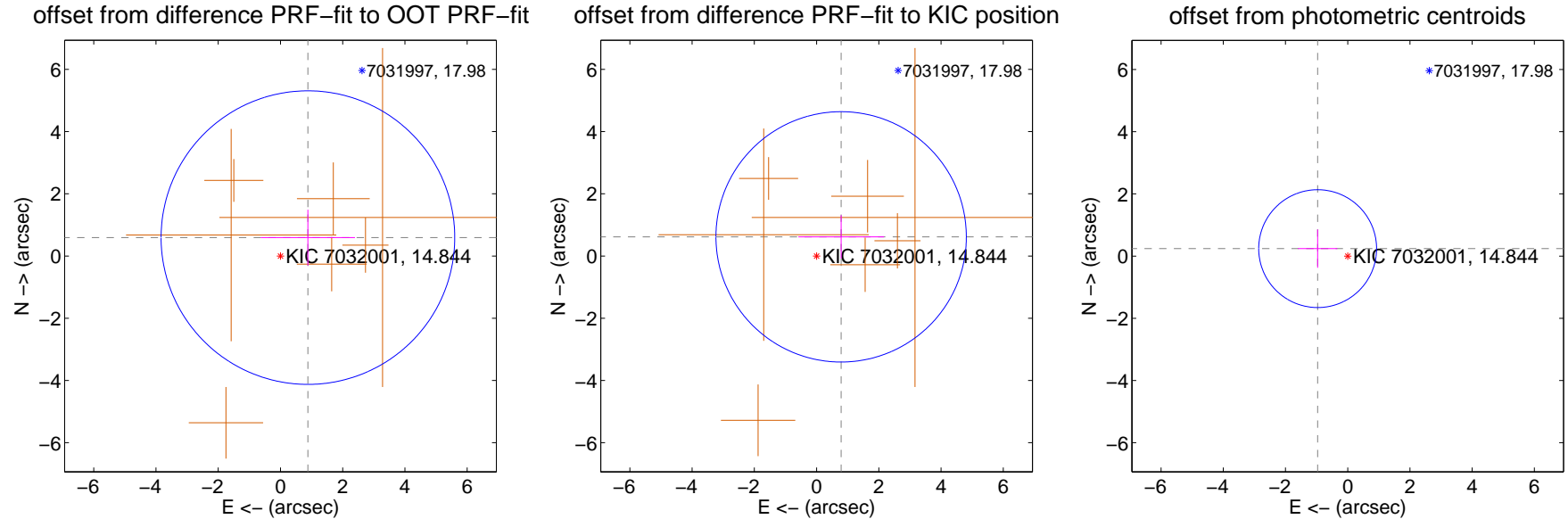
DV Centroid Data

Supplemental centroid analysis for 007032001-03. Kepler magnitude: 14.84. Transit SNR 12.09

There are 0 quarters with good PRF difference image offsets

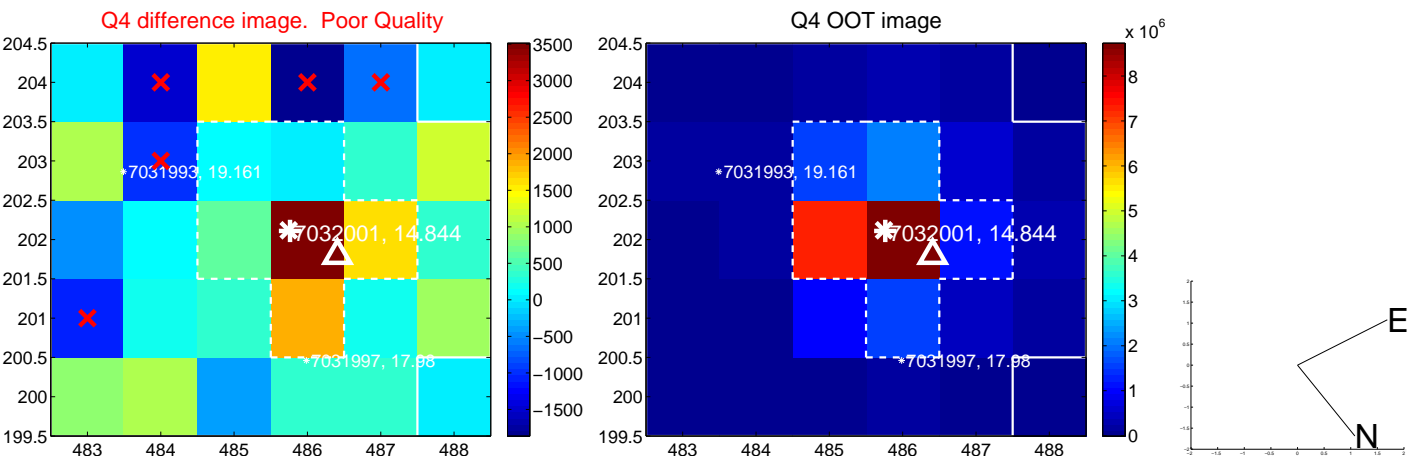
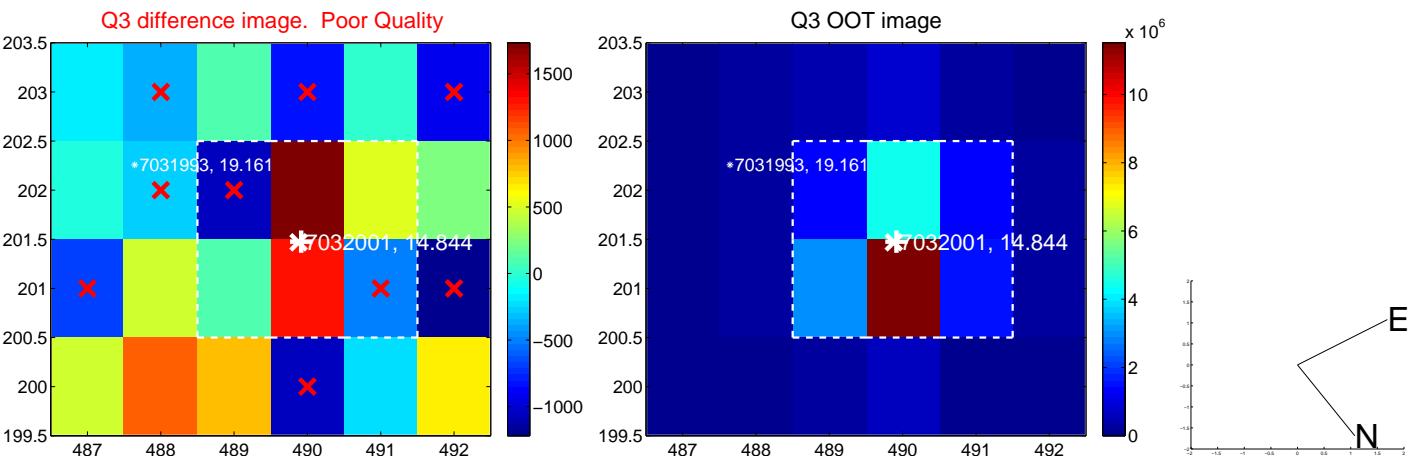
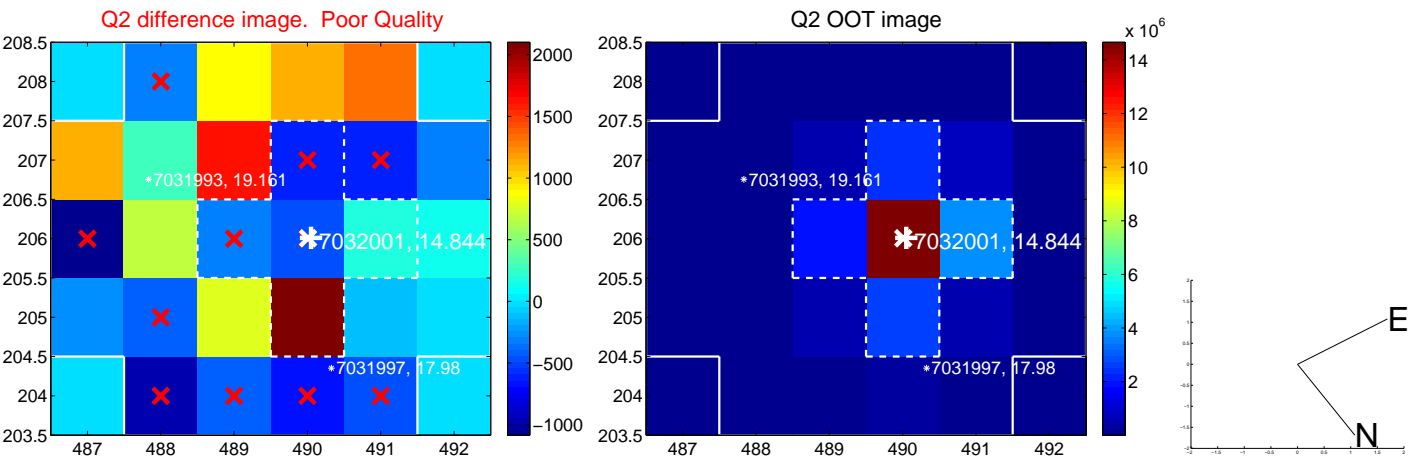
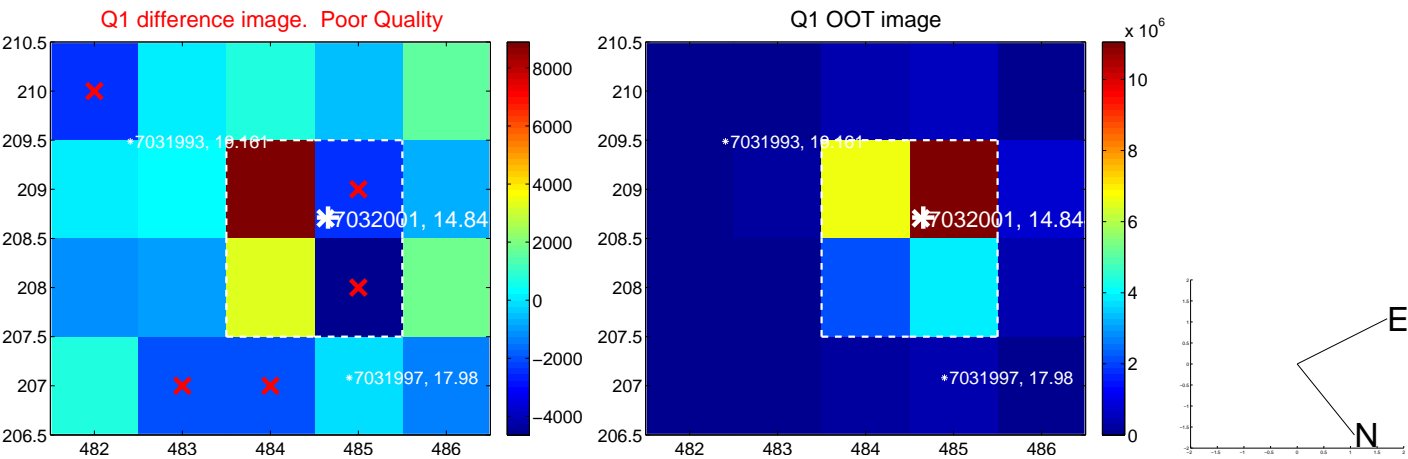
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.062 ± 1.573	0.68	-0.882 ± 1.513	0.592 ± 0.896
PRF-fit source offset from KIC position	1.001 ± 1.341	0.75	-0.789 ± 1.376	0.616 ± 0.696
photometric centroid source offset	1.00 ± 0.63	1.58	0.97 ± 0.63	0.24 ± 0.62

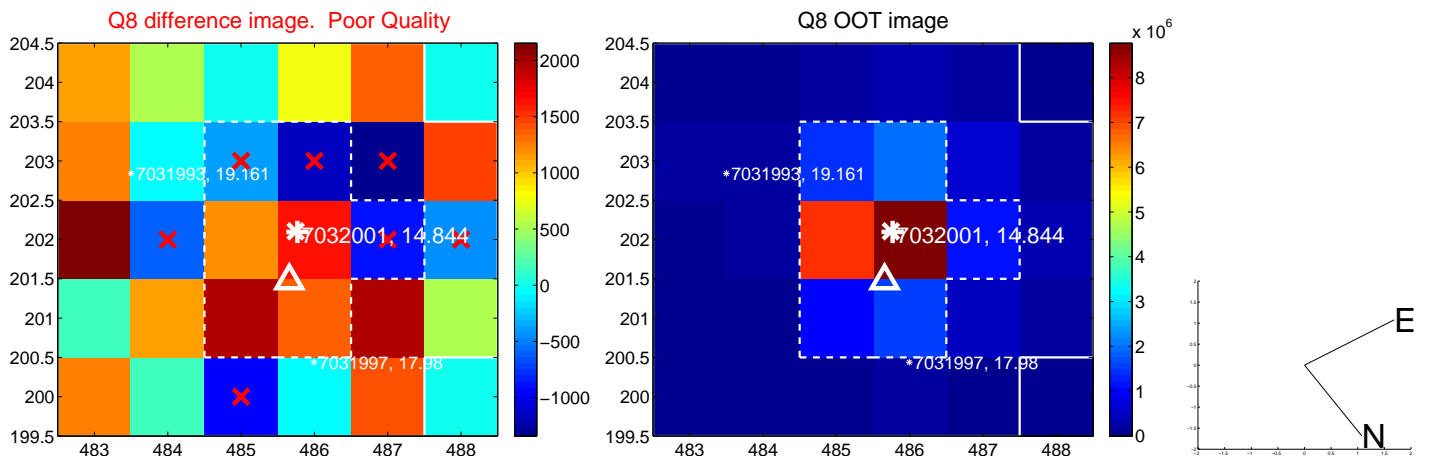
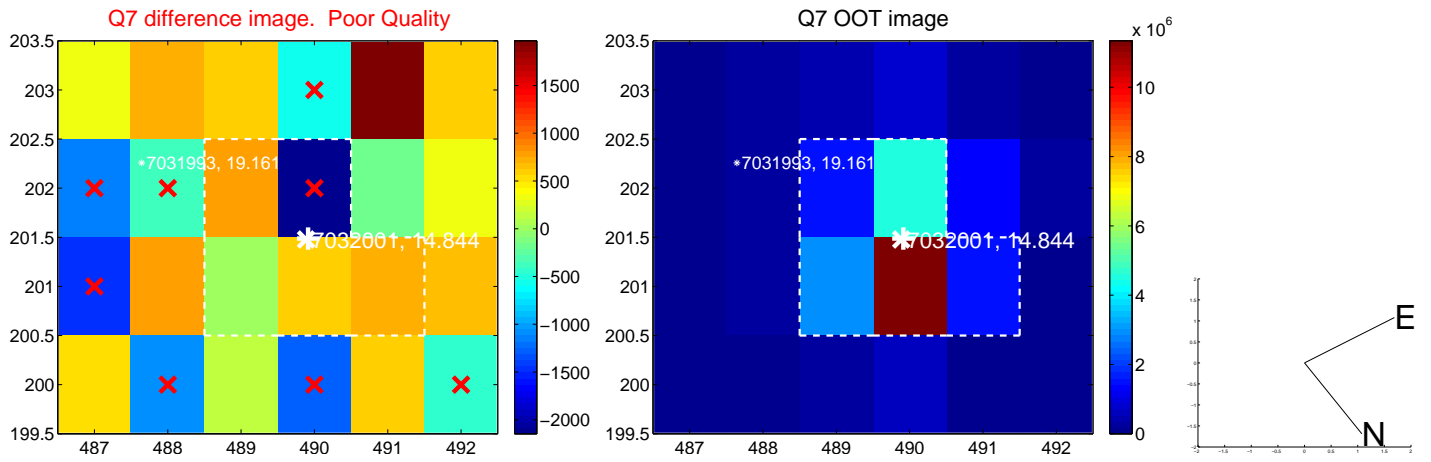
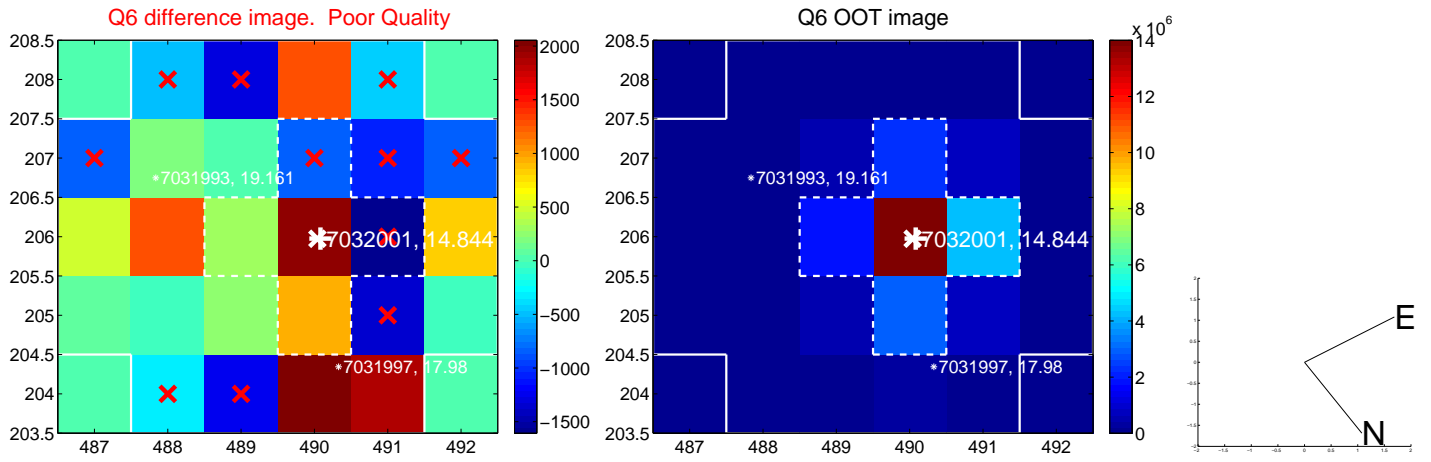
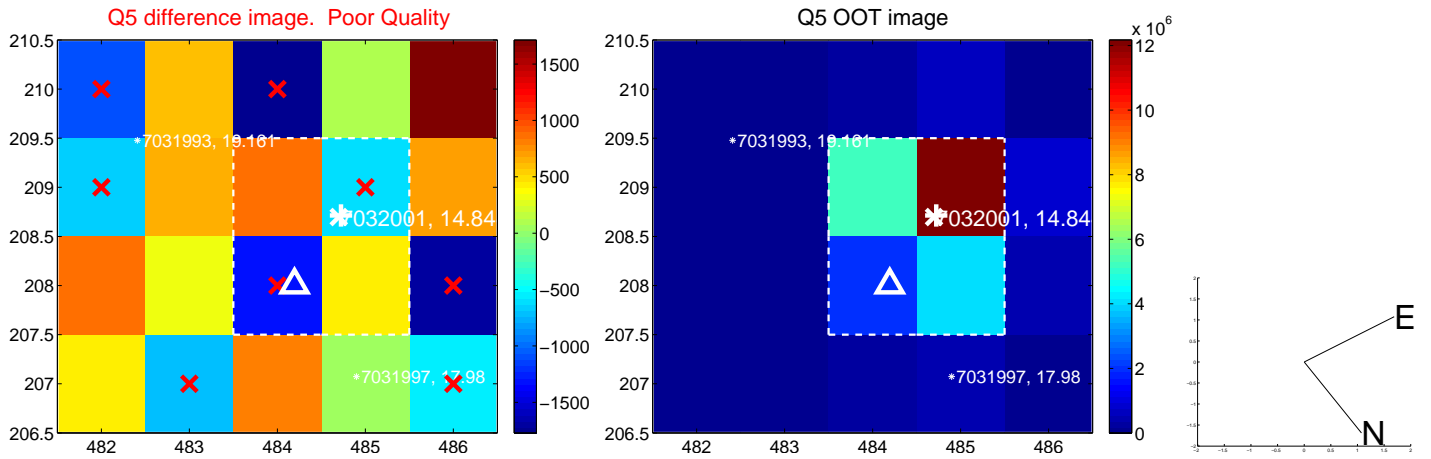


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

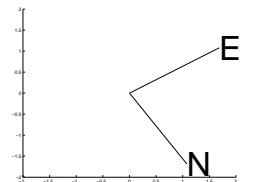
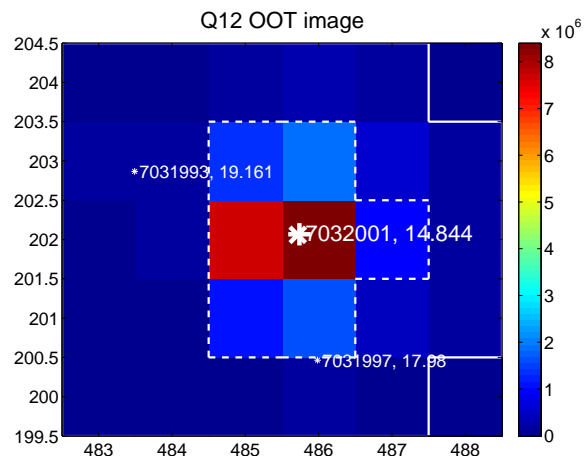
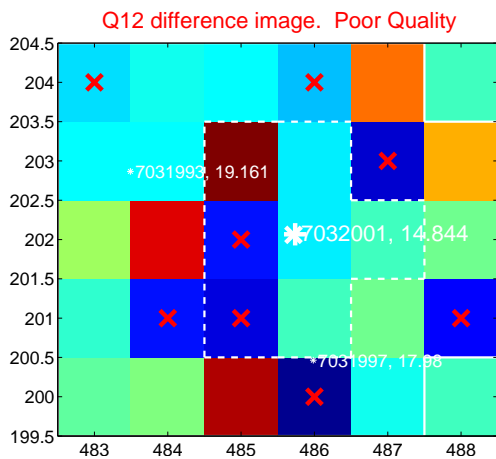
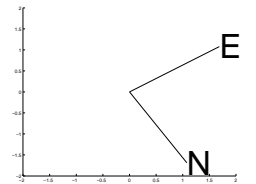
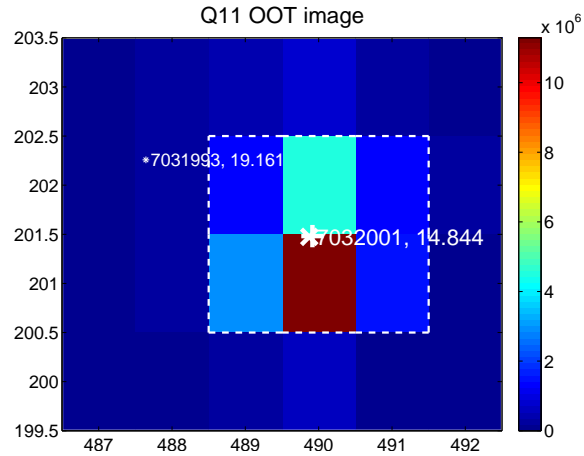
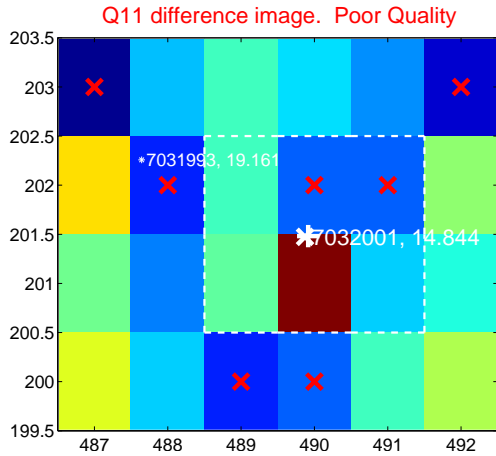
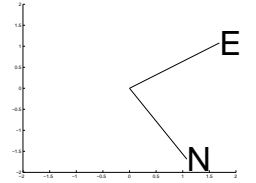
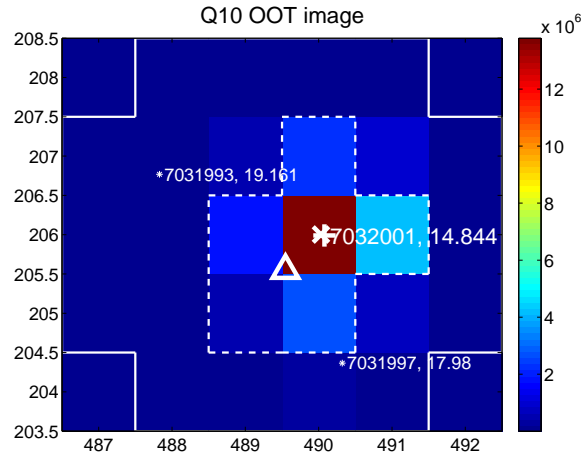
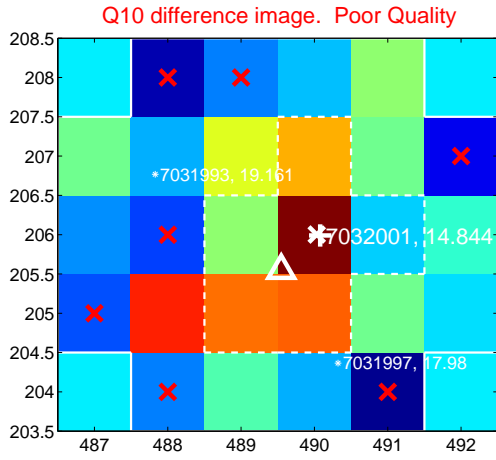
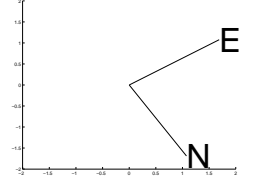
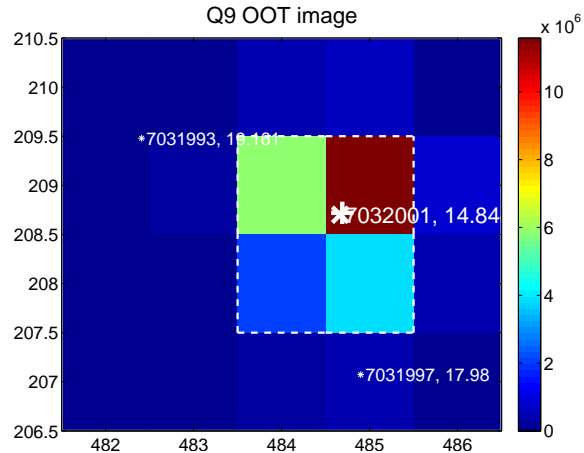
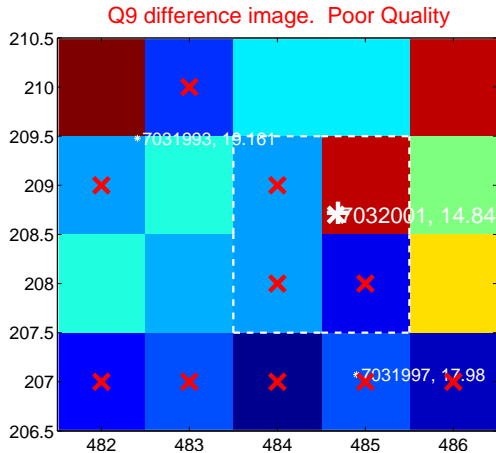
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



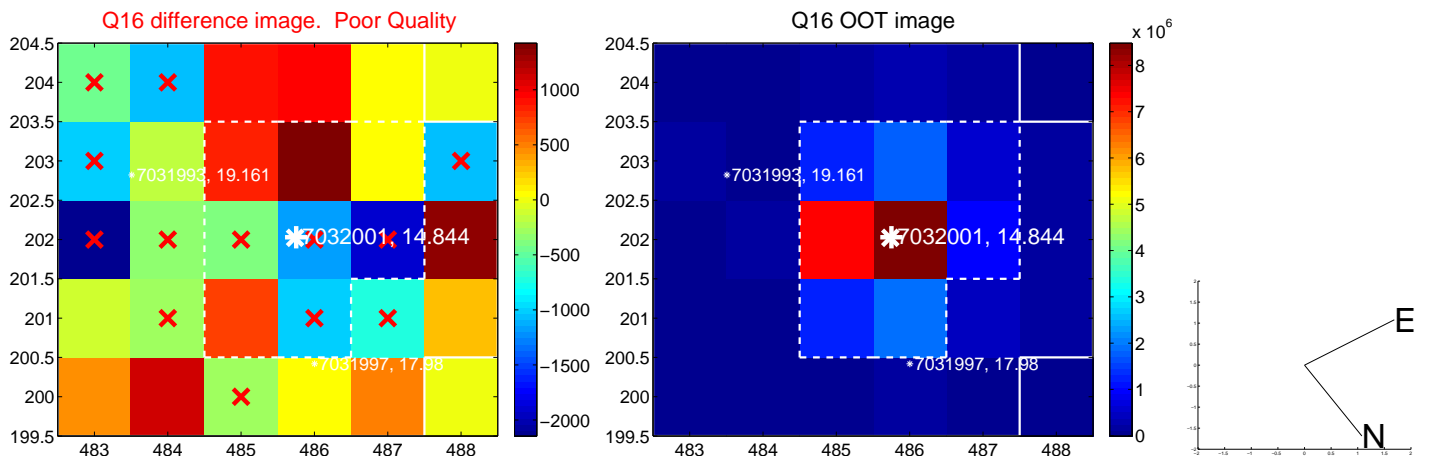
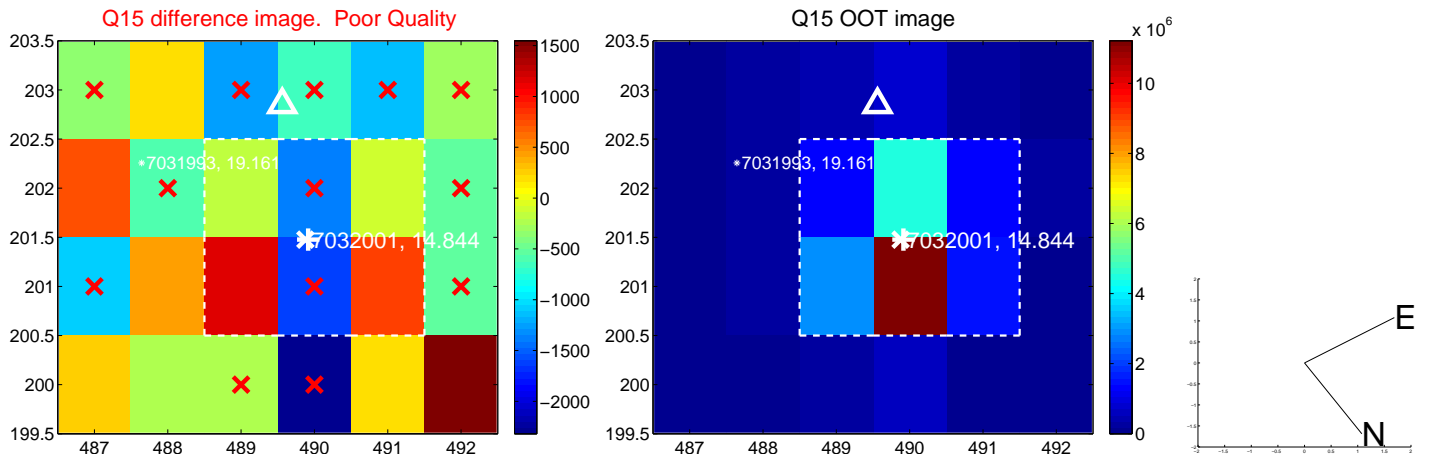
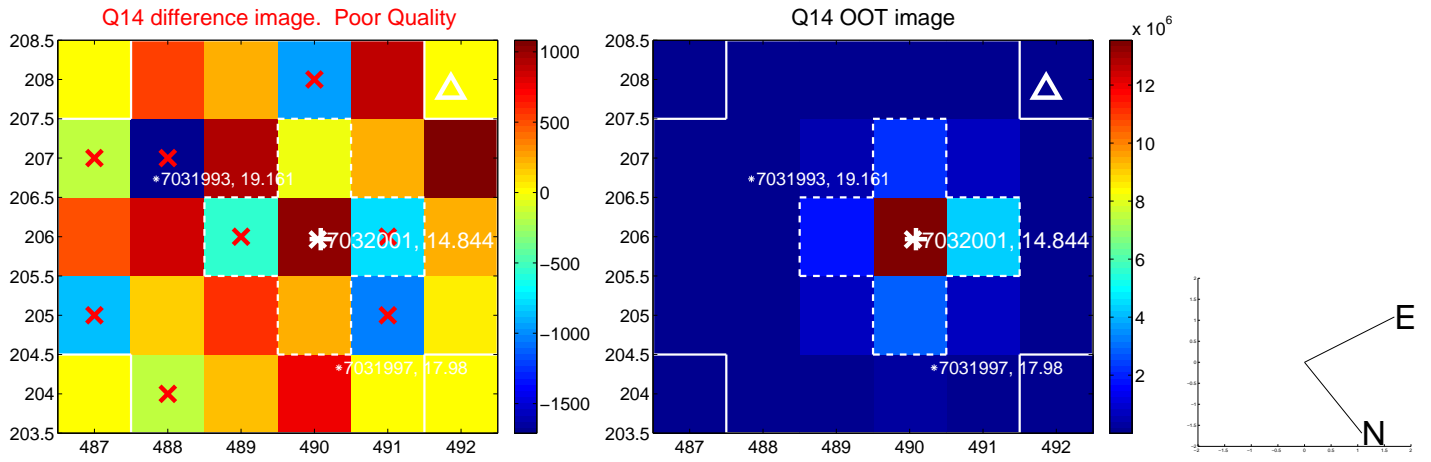
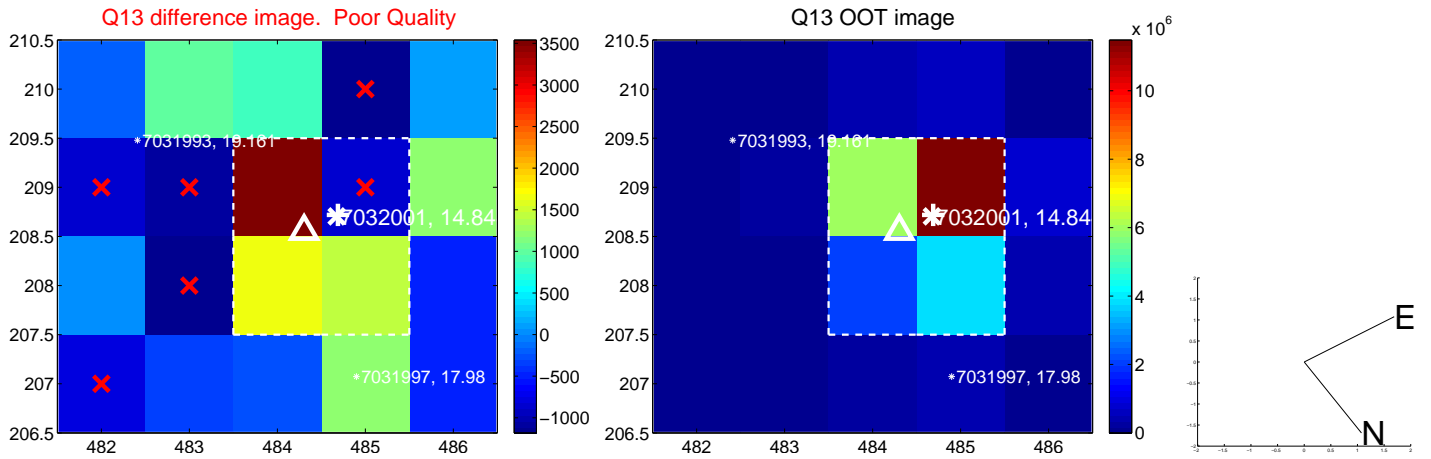
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



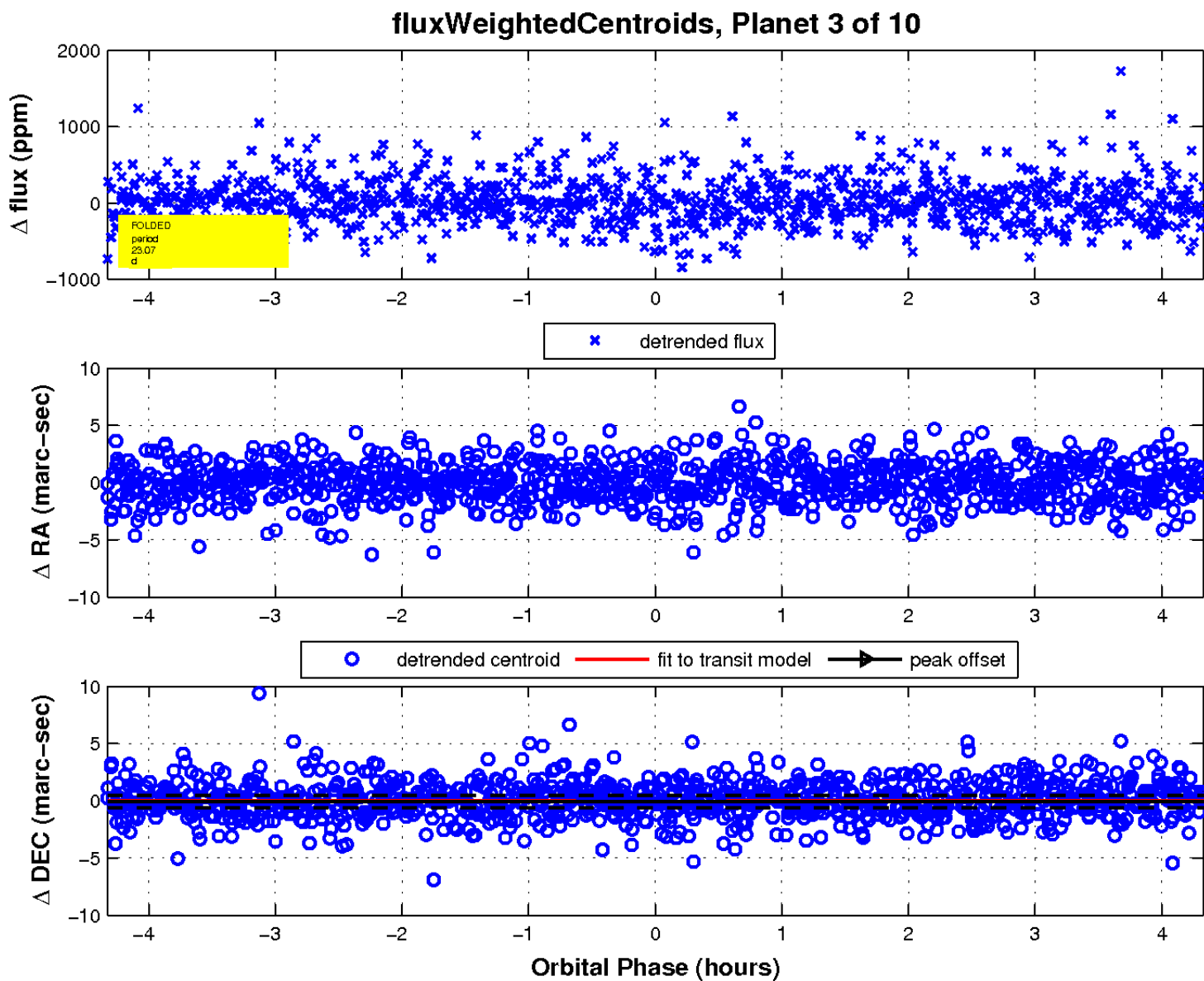
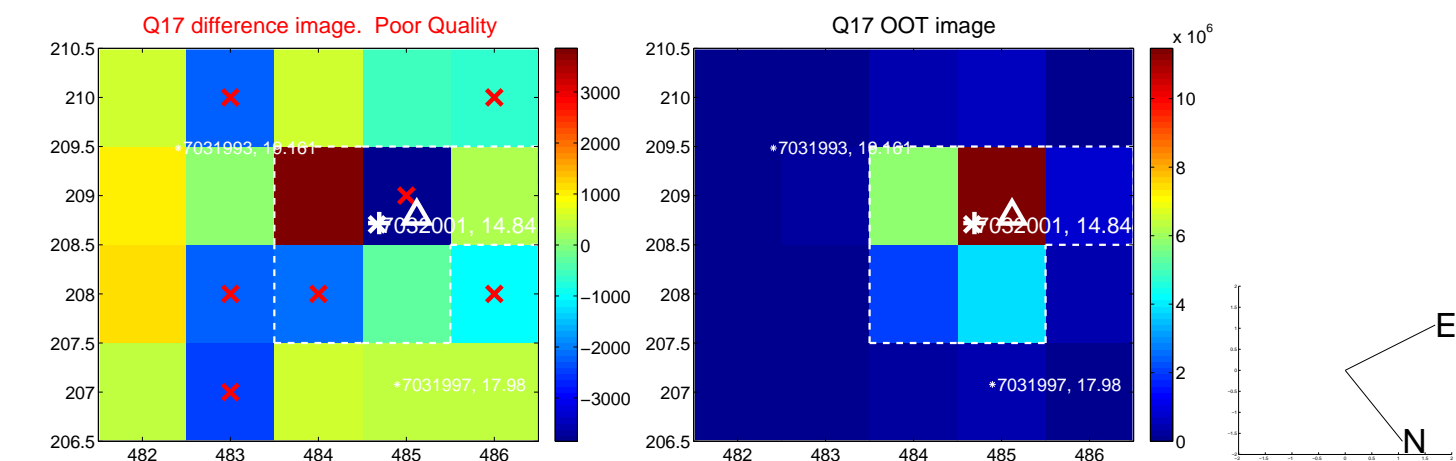
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

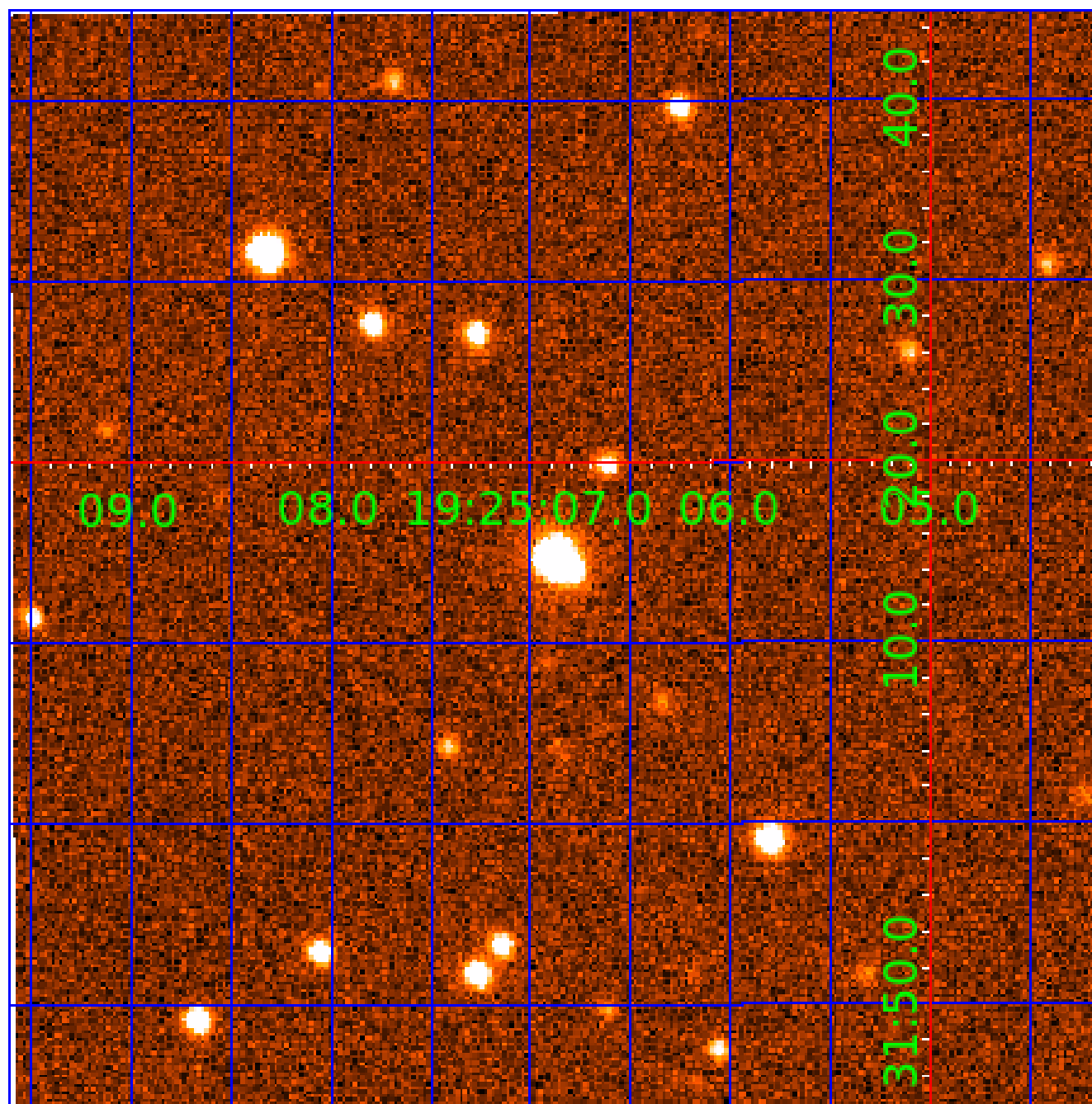


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

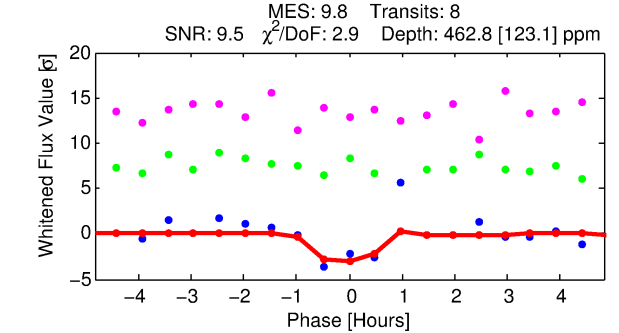
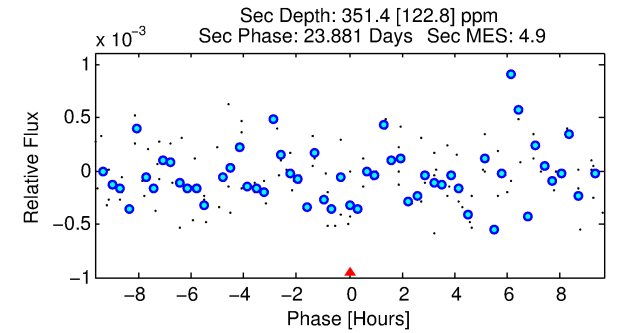
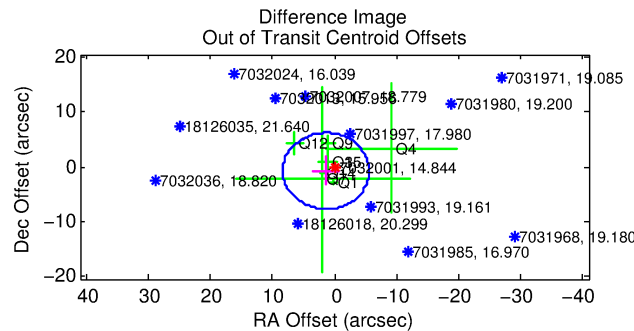
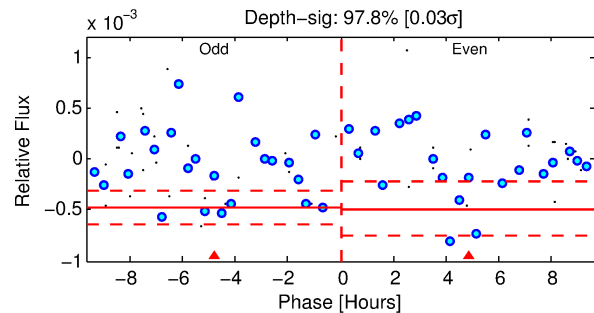
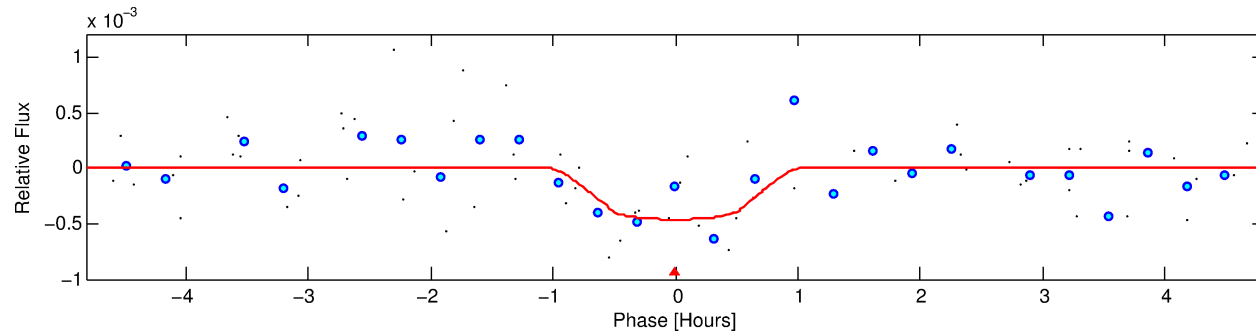
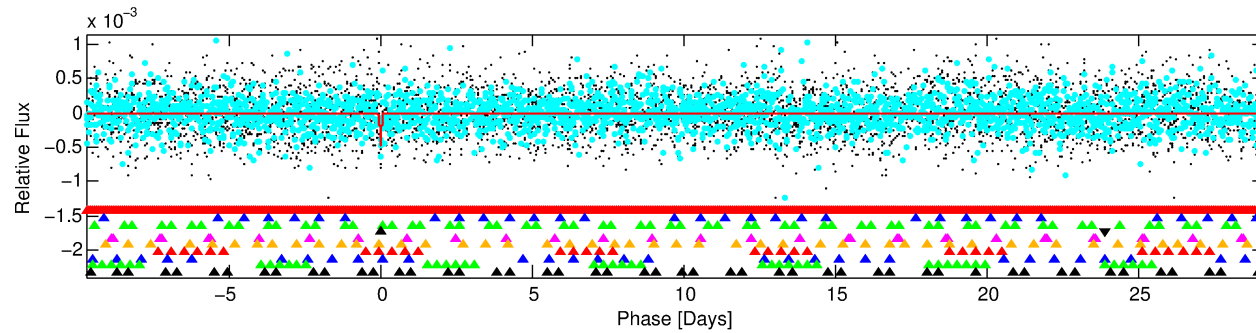
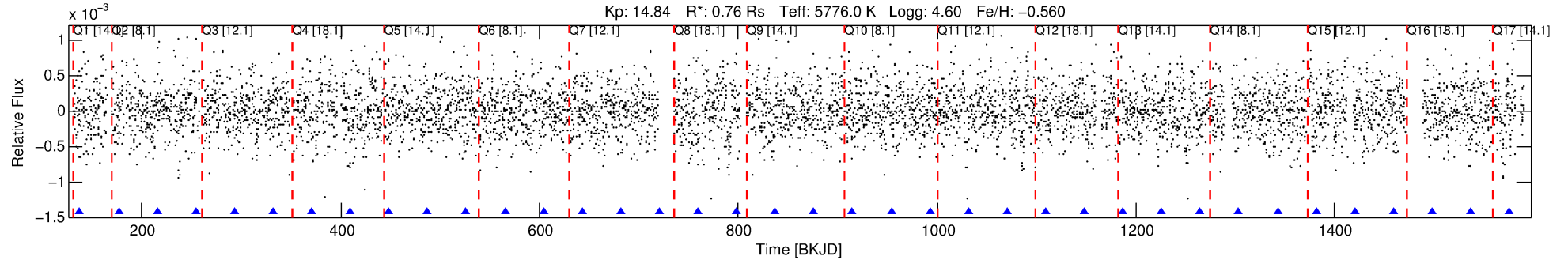
Ephemeris Match Information For 007032001-04

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 4 of 10 Period: 38.862 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



DV Fit Results:

Period = 38.86182 [0.00062] d
Epoch = 137.8047 [0.0158] BKJD
Rp/R* = 0.0226 [0.0401]
a/R* = 102.40 [881.76]
b = 0.86 [2.69]
Seff = 12.86 [4.06]
Teq = 483 [38] K
Rp = 1.87 [3.35] Re
a = 0.2111 [0.0436] AU
Ag = 2462.11 [8813.52] [0.28σ]
Teff = 5259 [4692] K [1.02σ]

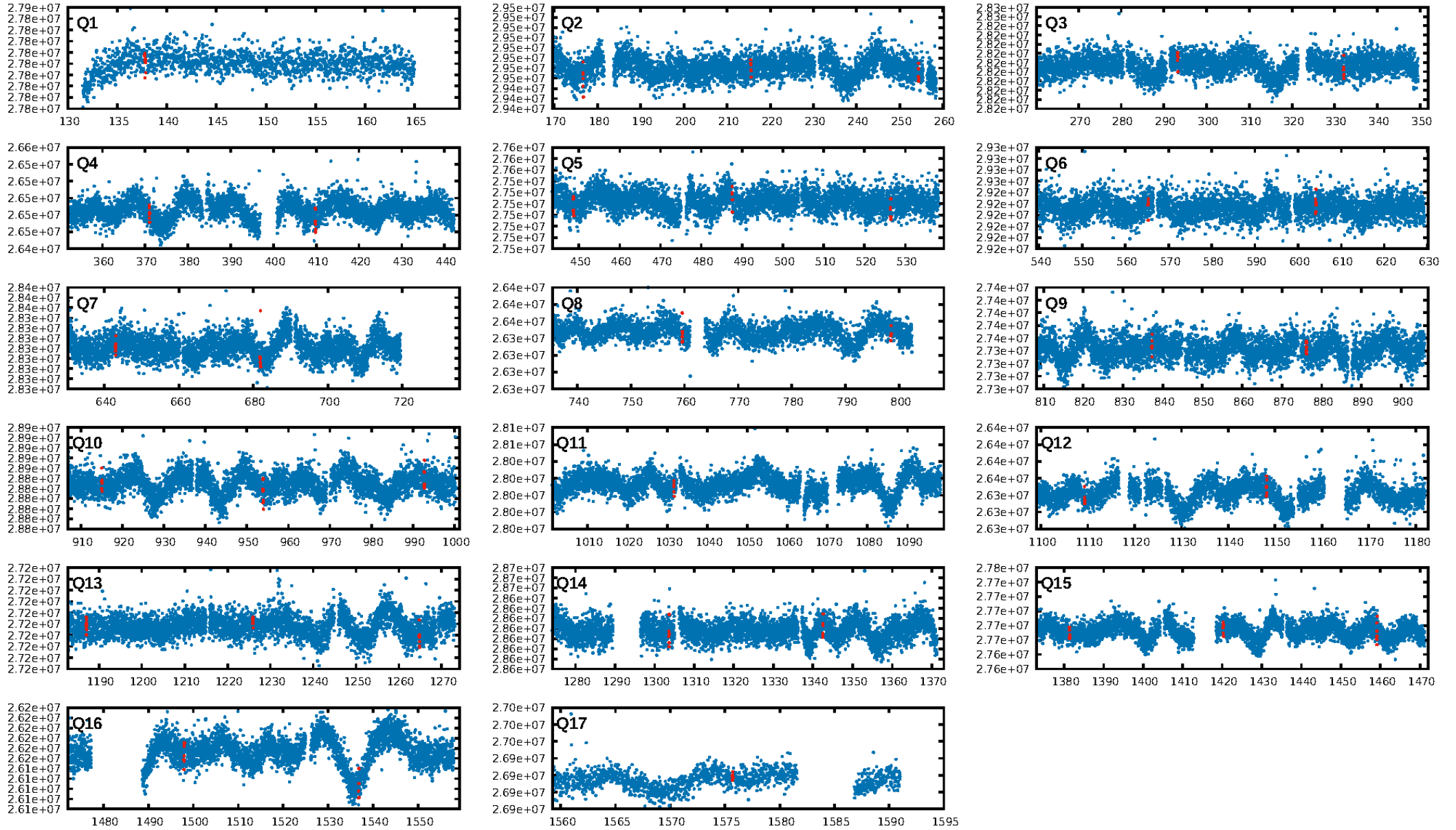
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [66.24σ]
LongPeriod-sig: 100.0% [18.35σ]
ModelChiSquare2-sig: 3.7%
ModelChiSquareGof-sig: 78.7%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -0.2449
Centroid-sig: N/A
Centroid-so: 0.660 arcsec [0.63σ]
OotOffset-rm: 1.598 arcsec [0.69σ]
KicOffset-rm: 1.659 arcsec [0.73σ]
OotOffset-st: 1/3/2/2 [8]
KicOffset-st: 1/3/2/2 [8]
DiffImageQuality-fgm: 0.25 [2/8]
DiffImageOverlap-fno: 0.00 [0/17]

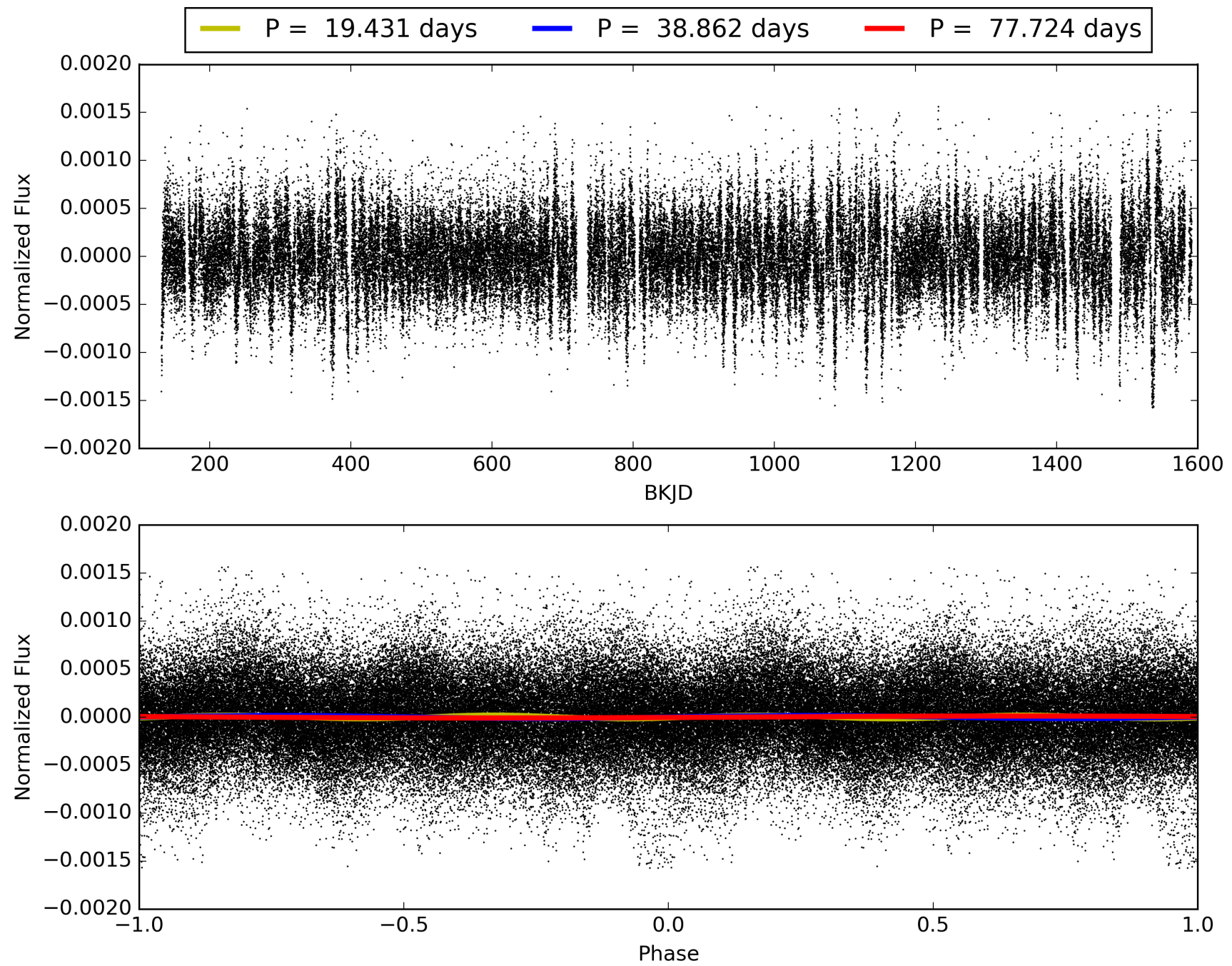
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:47:38 Z

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

TCE 007032001-04, PDC Light Curves

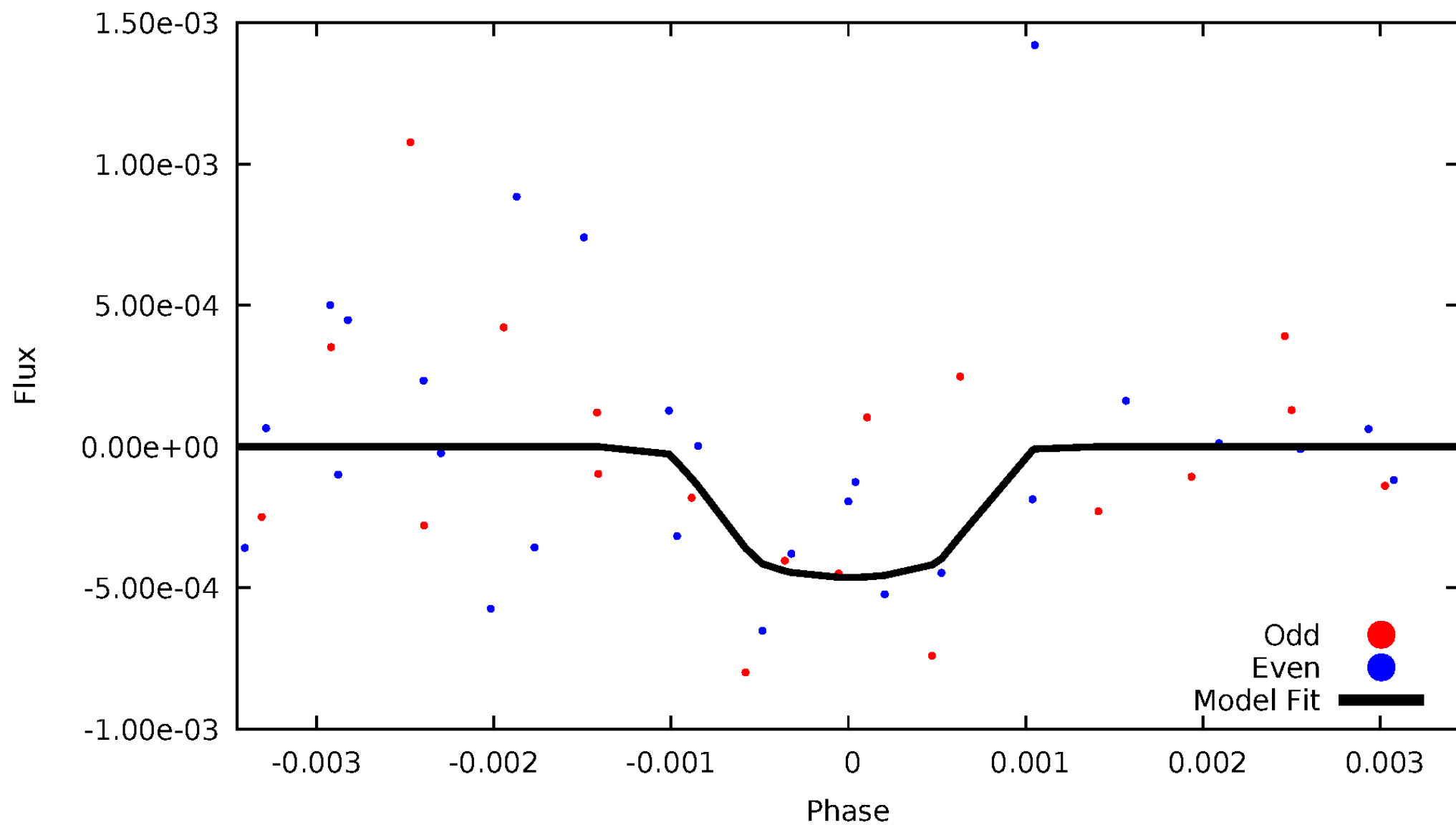


TCE 007032001-04



DV Odd/Even

TCE 007032001-04

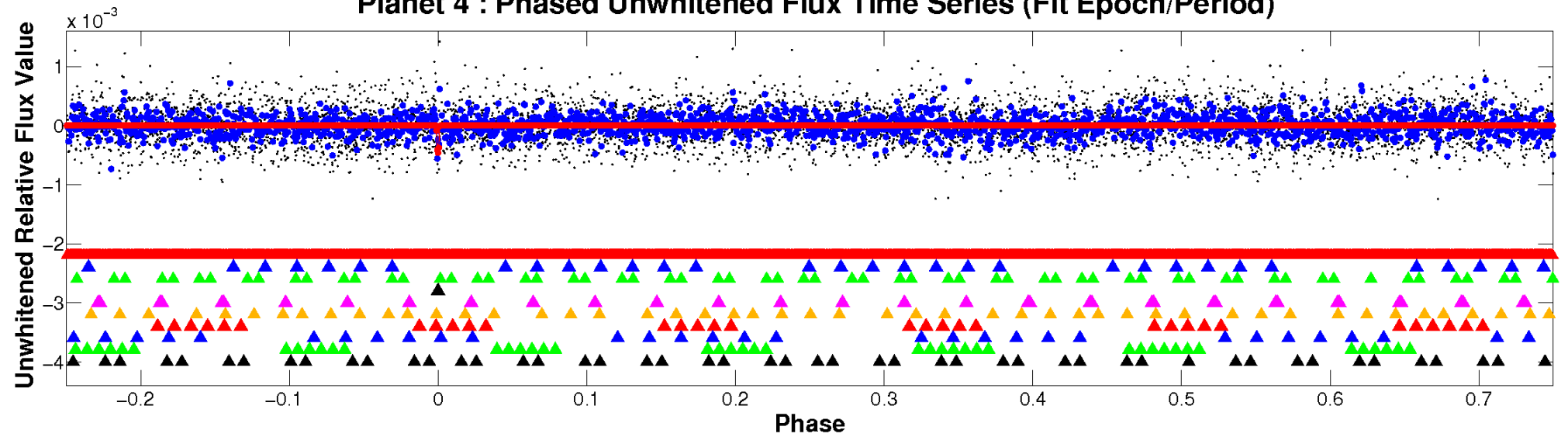


ALT Odd/Even

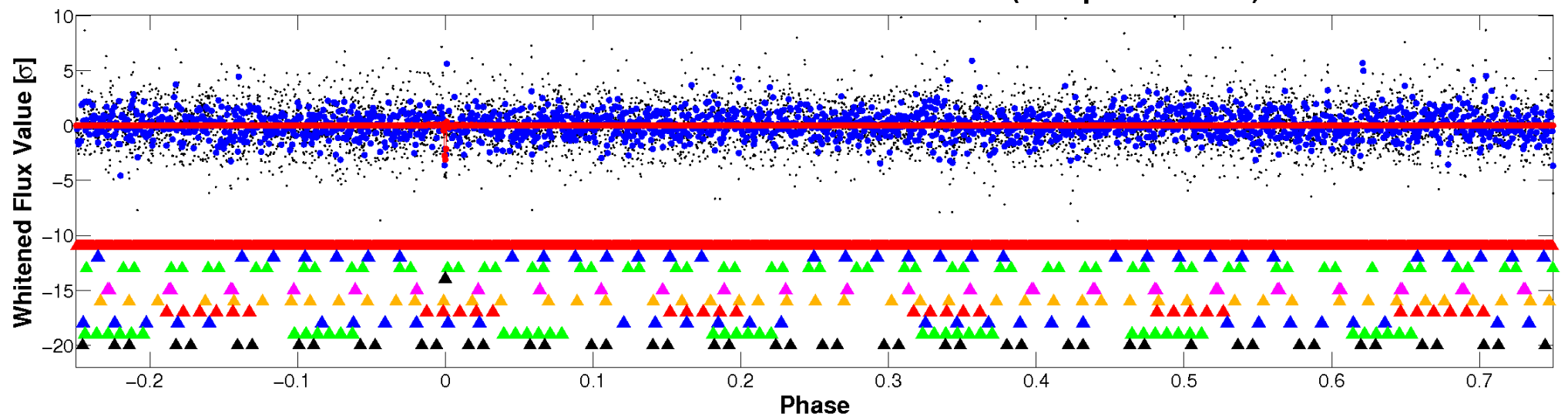
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

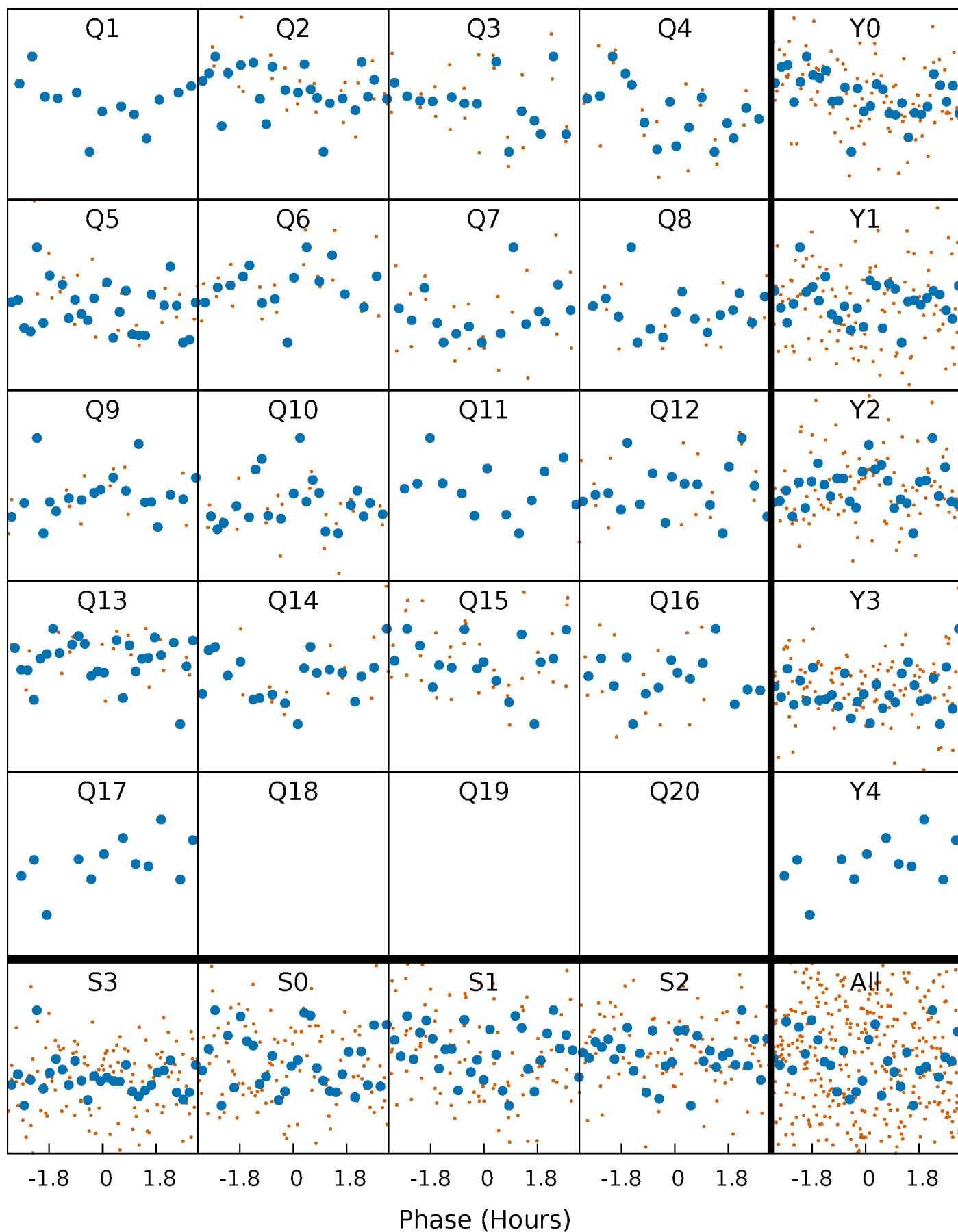


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



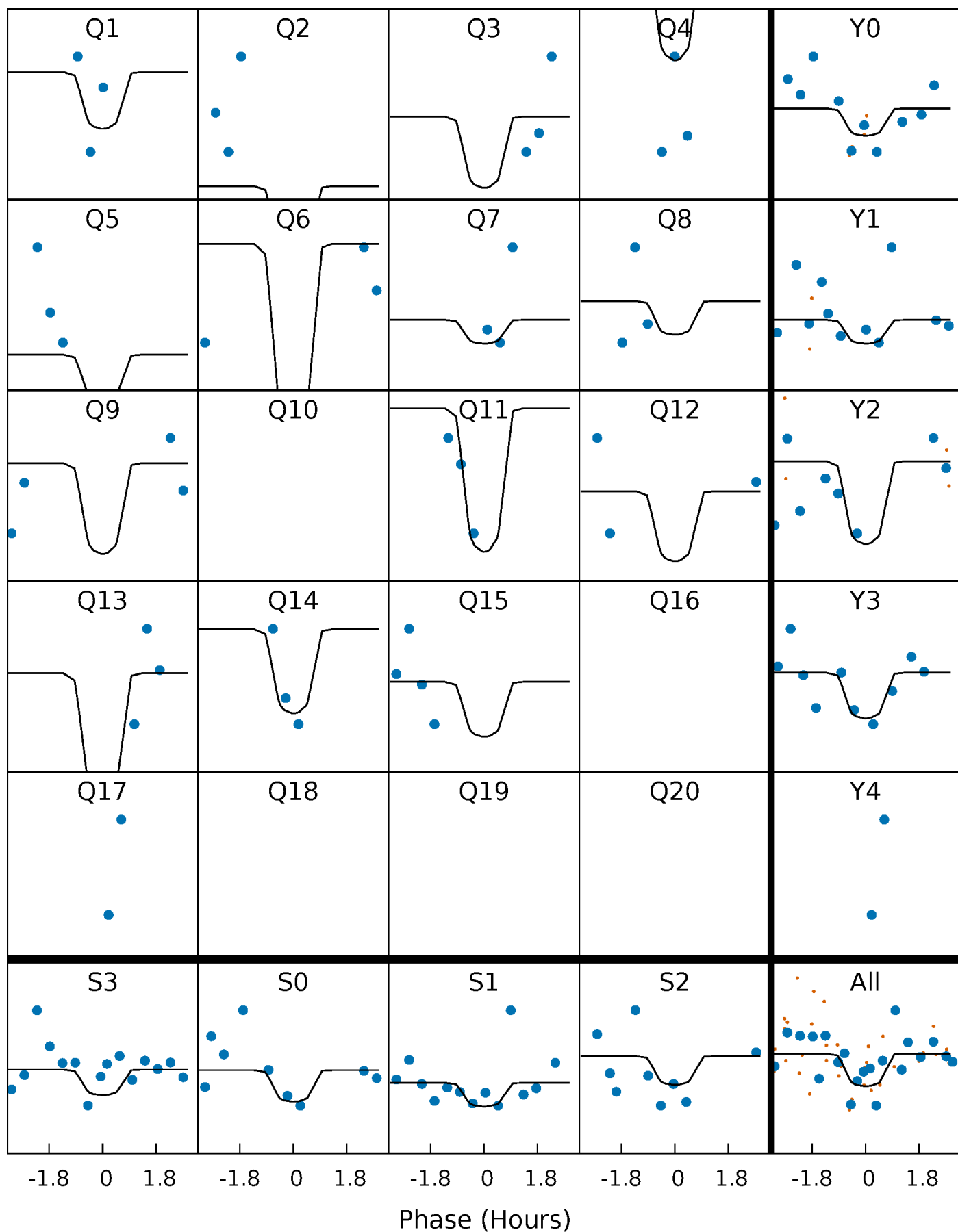
PDC Quarter-Phased Transit Curves

TCE 007032001-04 P= 38.861819 Days $T_0=137.804650$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007032001-04 P= 38.861819 Days $T_0=137.804650$ (BKJD)

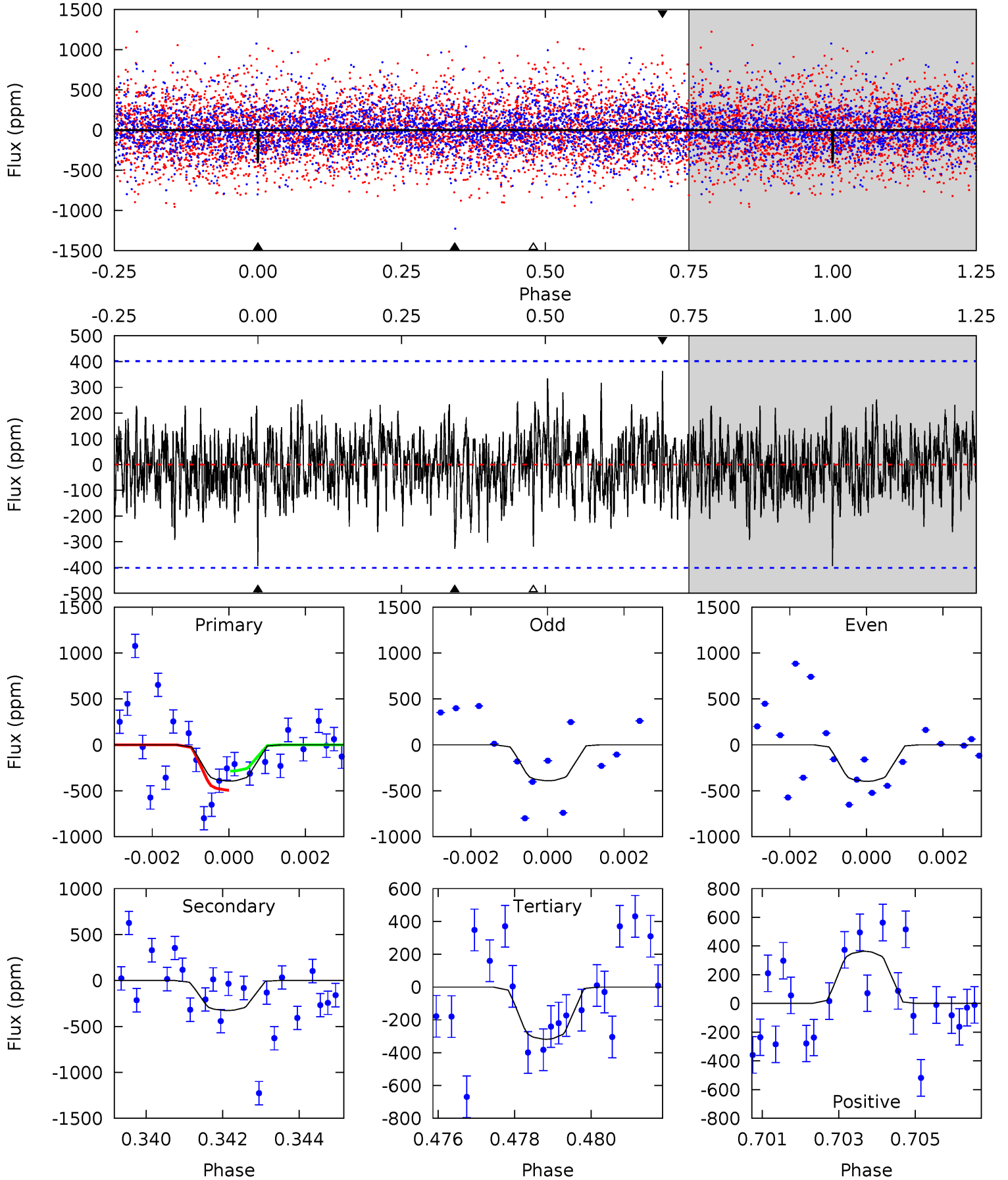


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007032001-04, P = 38.861819 Days, E = 98.942831 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.23	4.33	4.22	4.81	5.32	3.08	1.26	1.01	0.42	0.11	-0.48	0.04	0.85	0.48	1.37



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-327 ± 75	$3.36^{+2.84}_{-2.26}$	687^{+38}_{-28}	4146^{+2788}_{-752}	671^{+6161}_{-479}
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 $A_{obs} \gg 1.0$

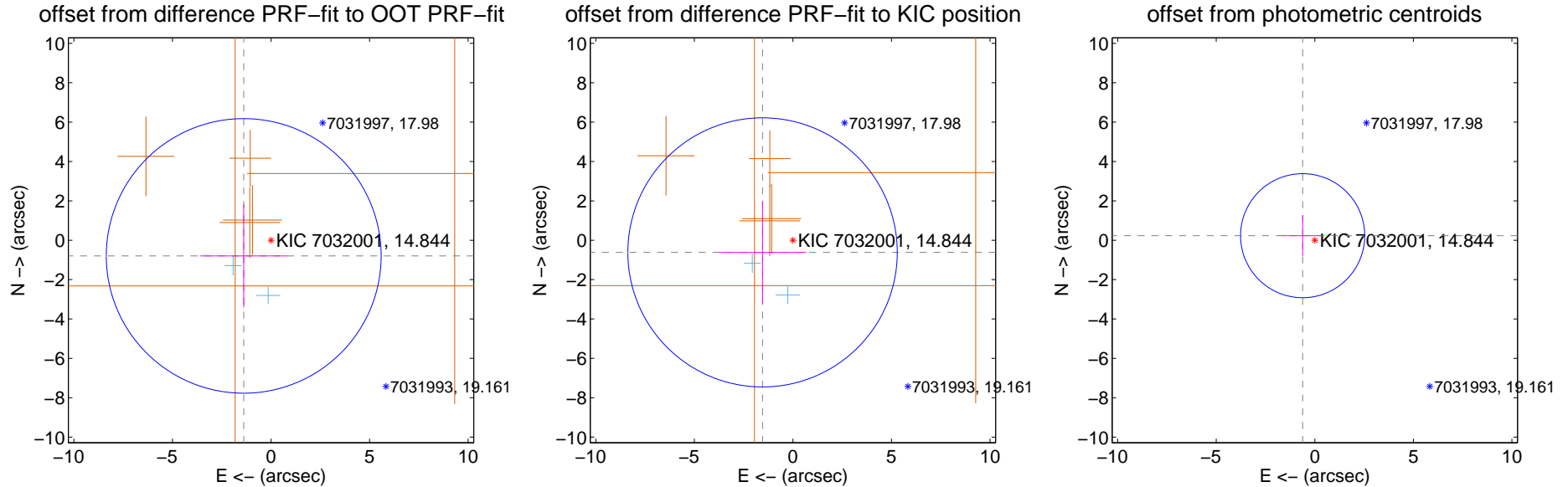
DV Centroid Data

Supplemental centroid analysis for 007032001-04. Kepler magnitude: 14.84. Transit SNR 9.51

There are 2 quarters with good PRF difference image offsets

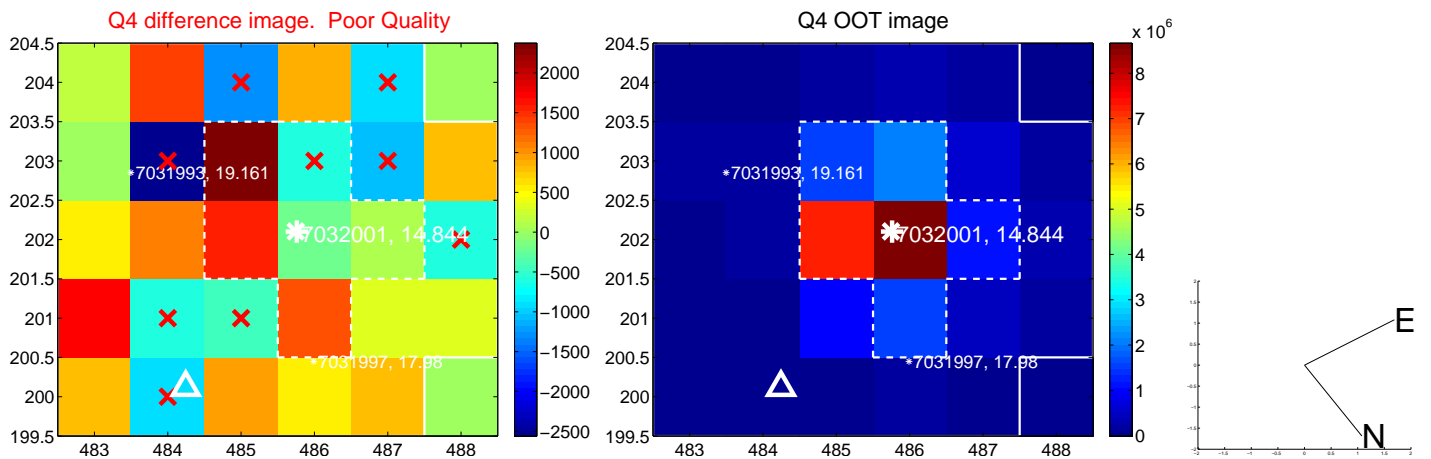
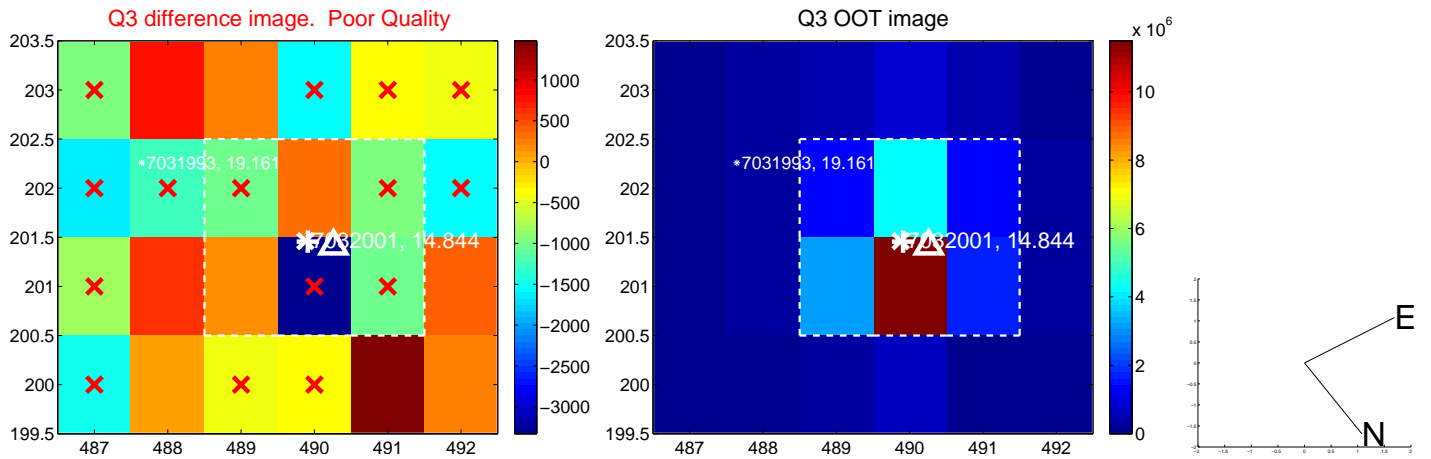
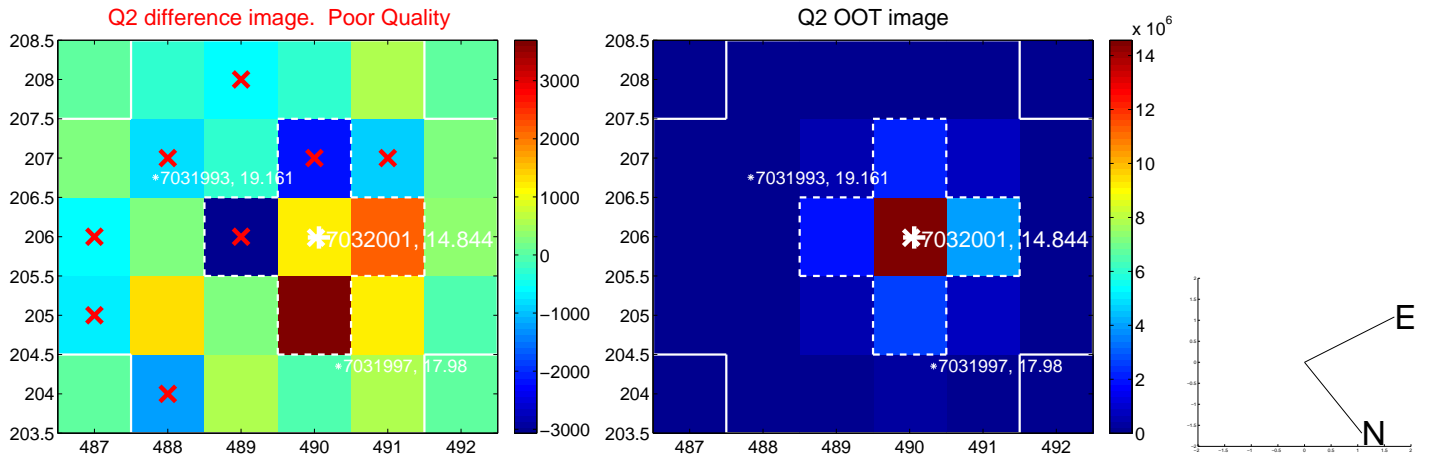
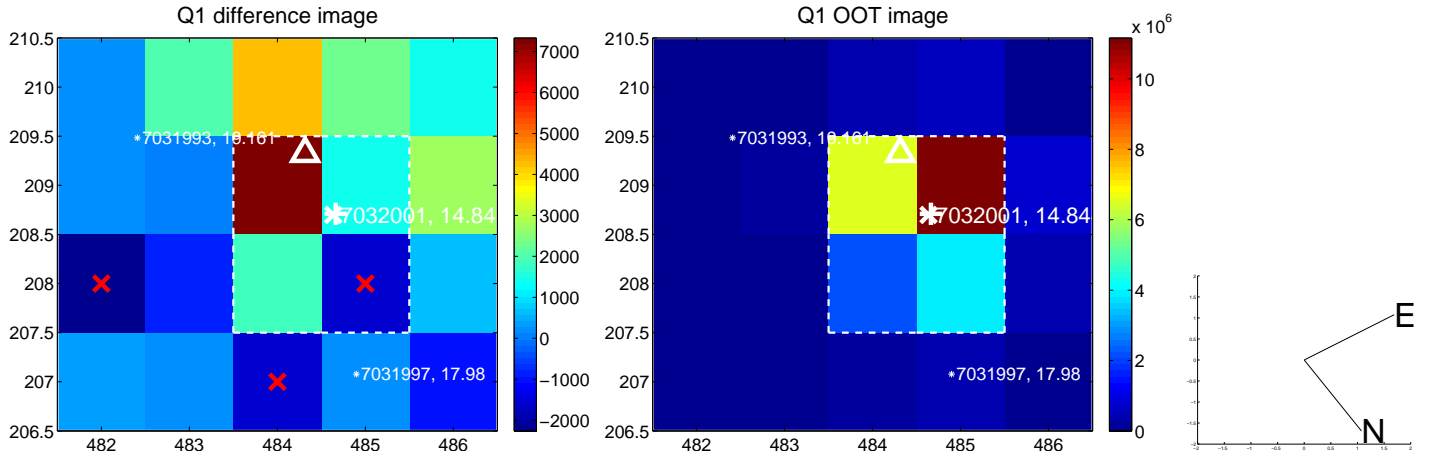
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.598 ± 2.325	0.69	1.386 ± 2.219	-0.797 ± 2.618
PRF-fit source offset from KIC position	1.659 ± 2.278	0.73	1.540 ± 2.219	-0.617 ± 2.618
photometric centroid source offset	0.66 ± 1.05	0.63	0.62 ± 1.05	0.23 ± 1.04

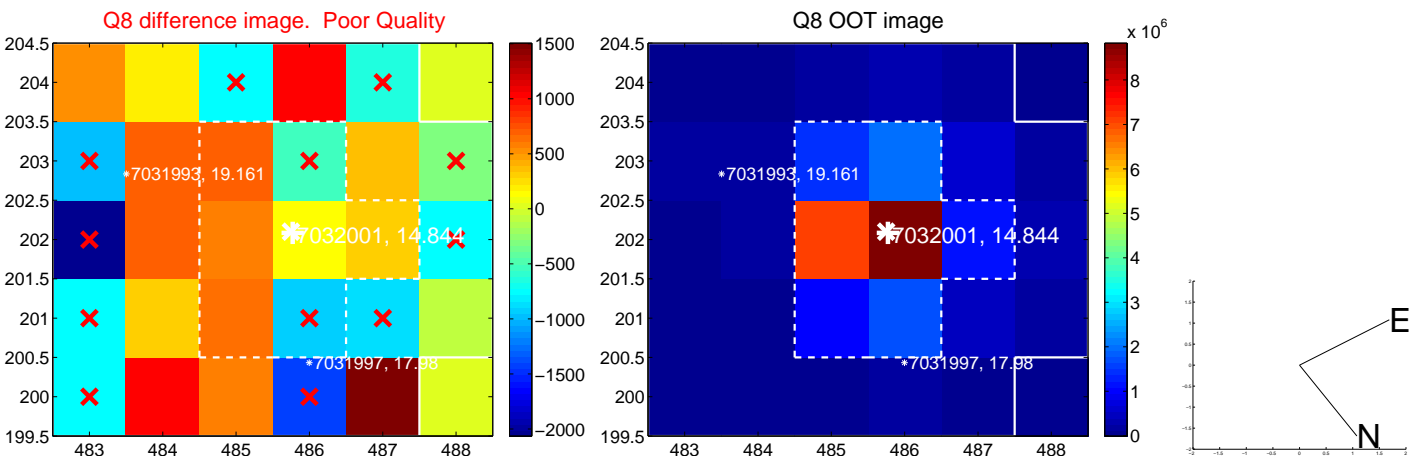
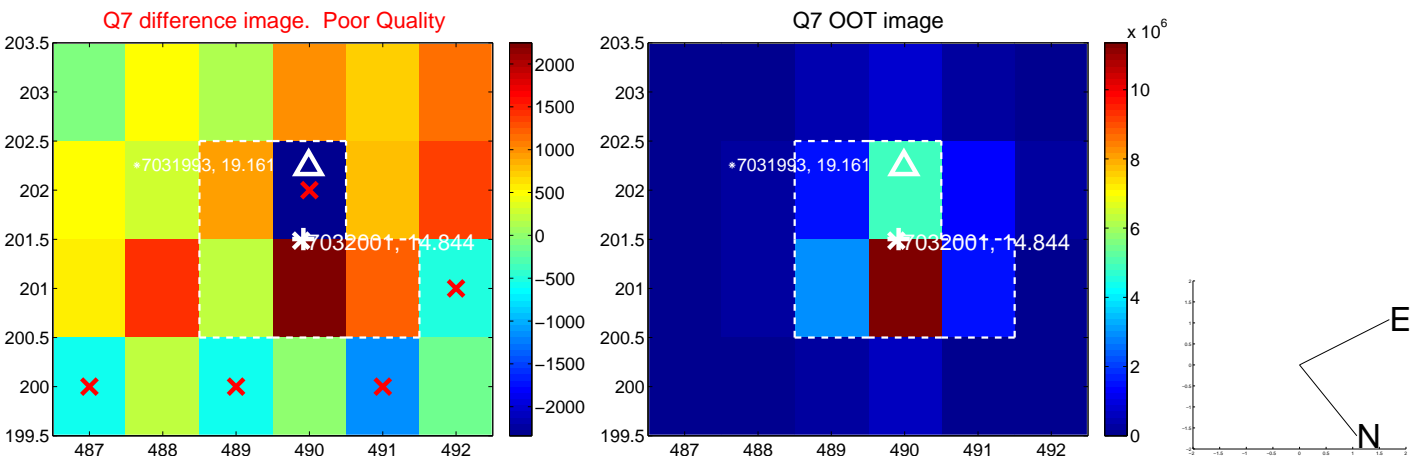
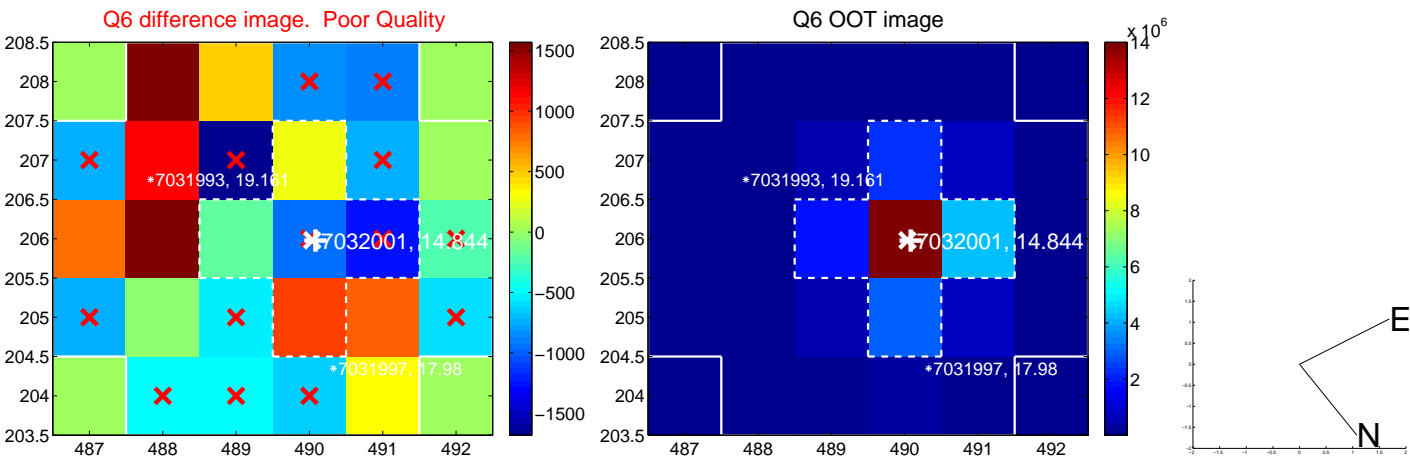
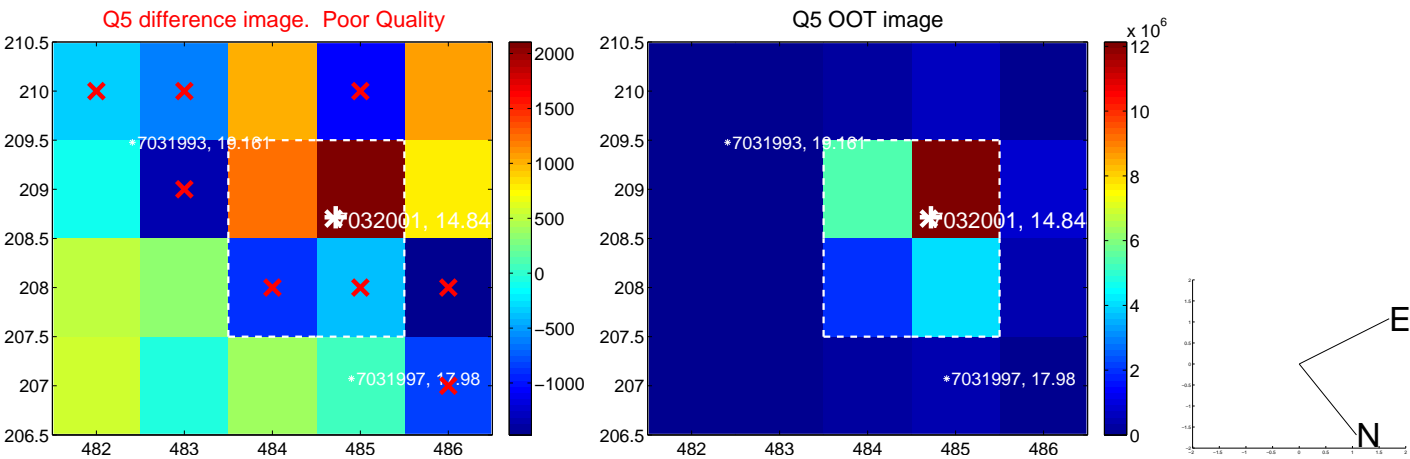


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

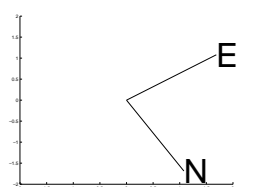
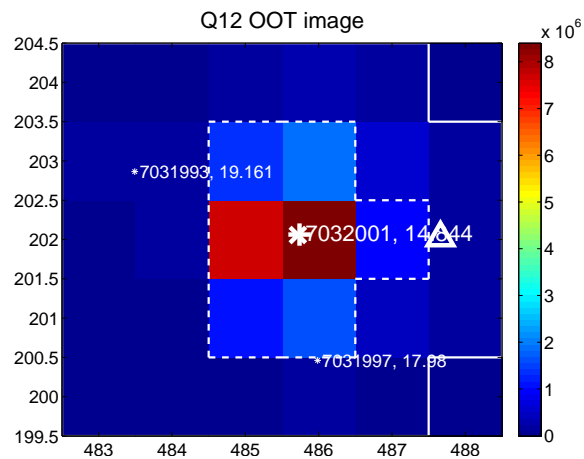
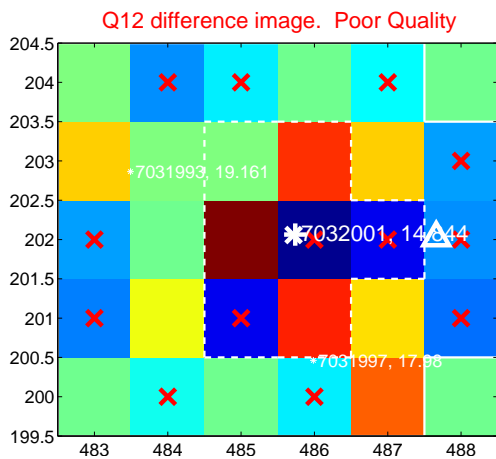
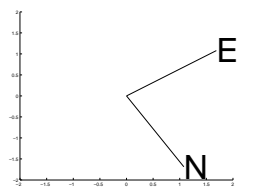
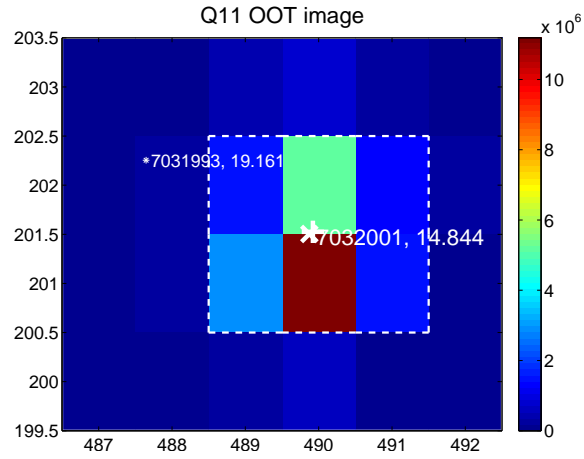
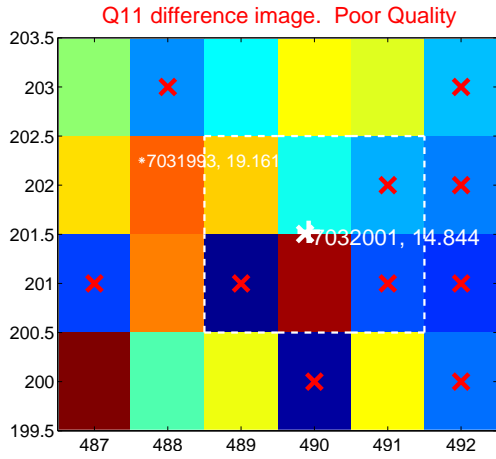
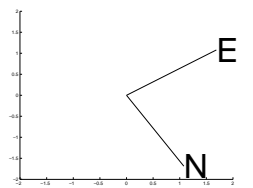
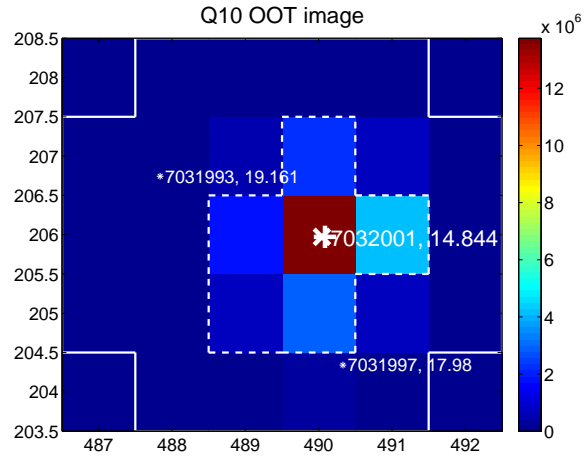
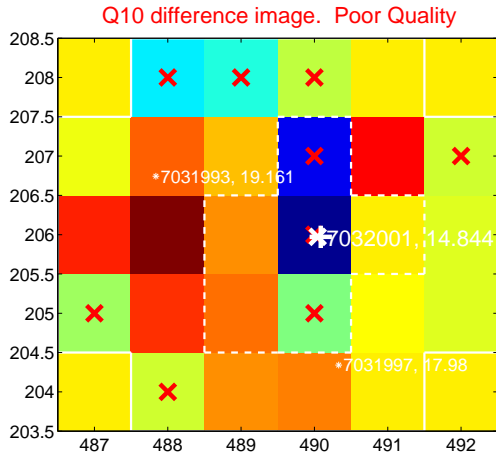
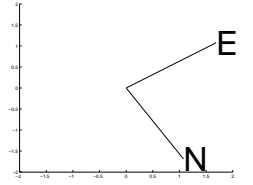
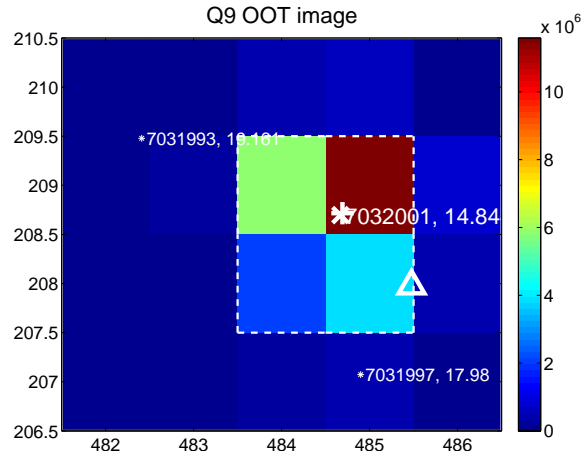
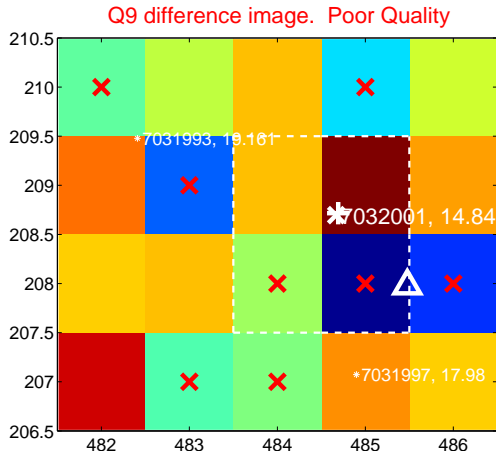
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



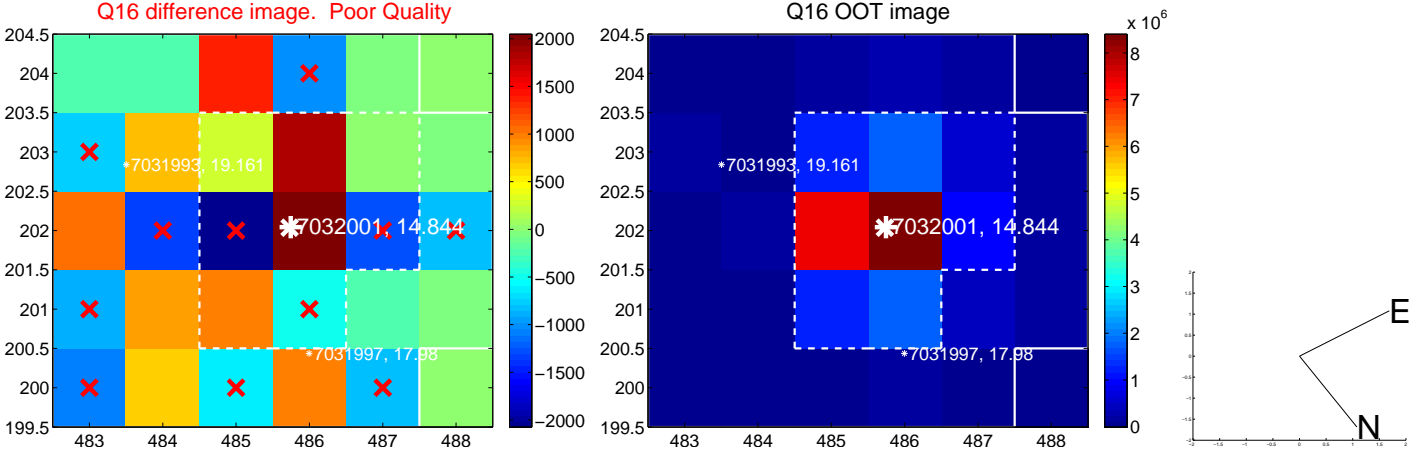
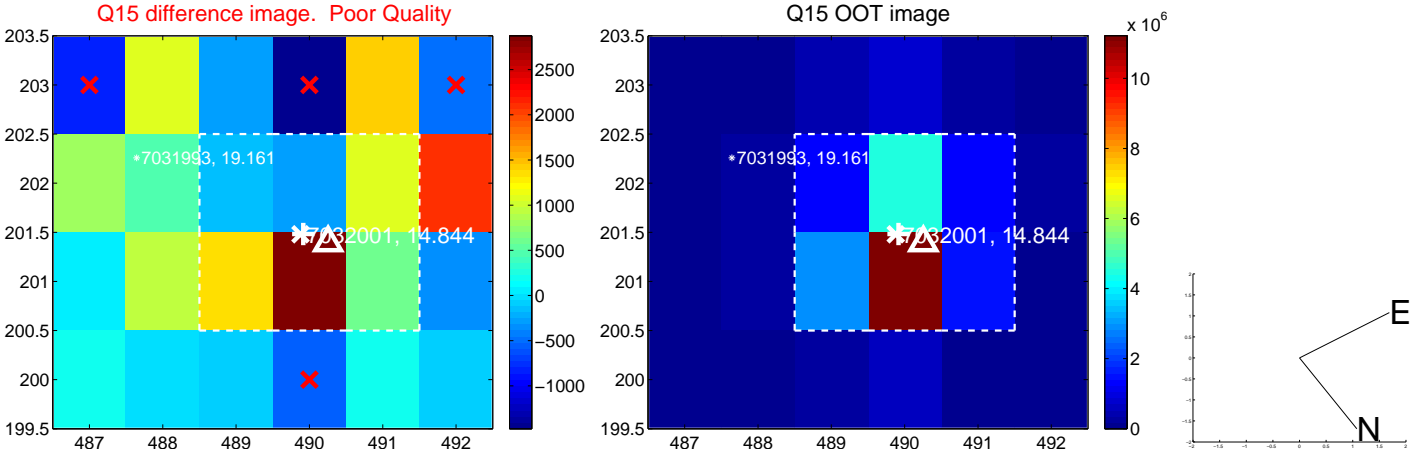
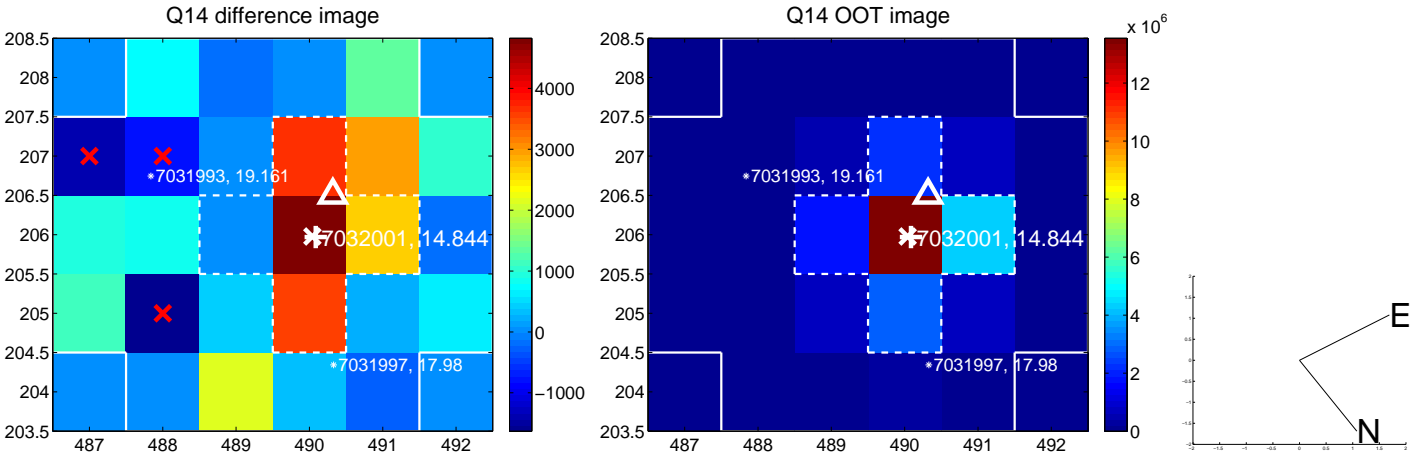
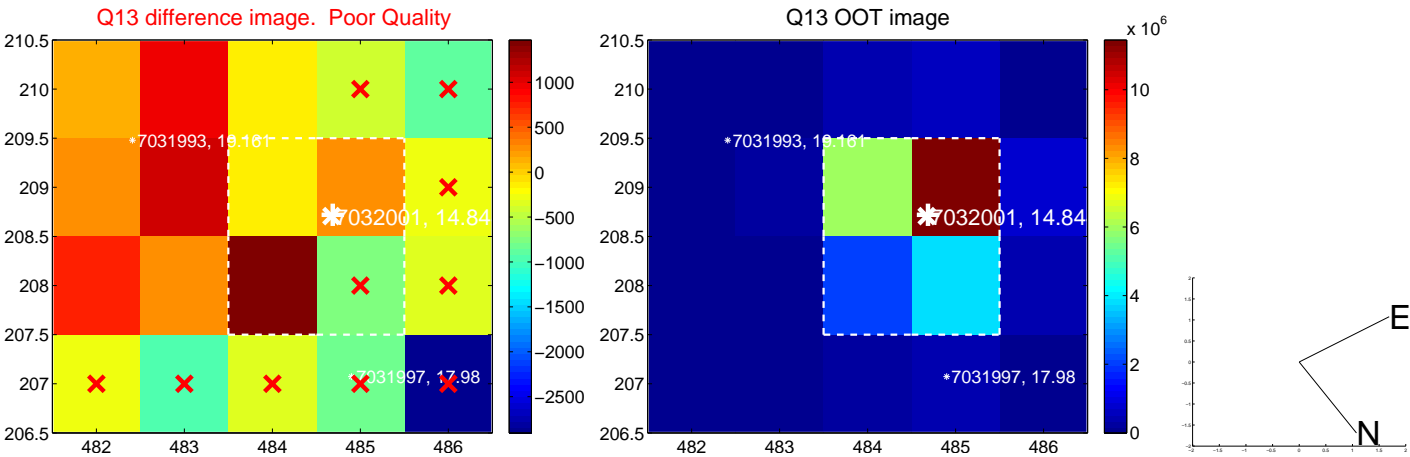
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



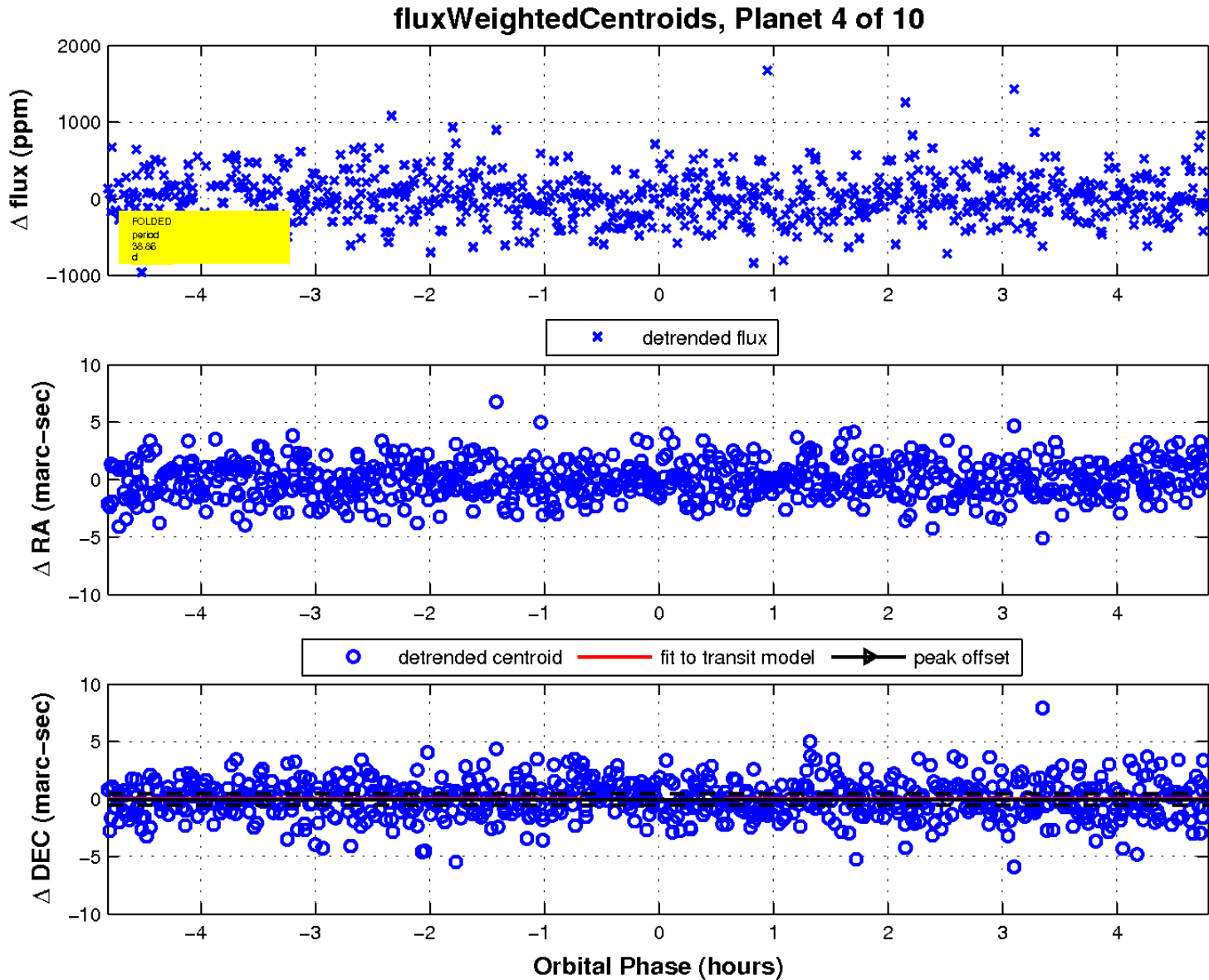
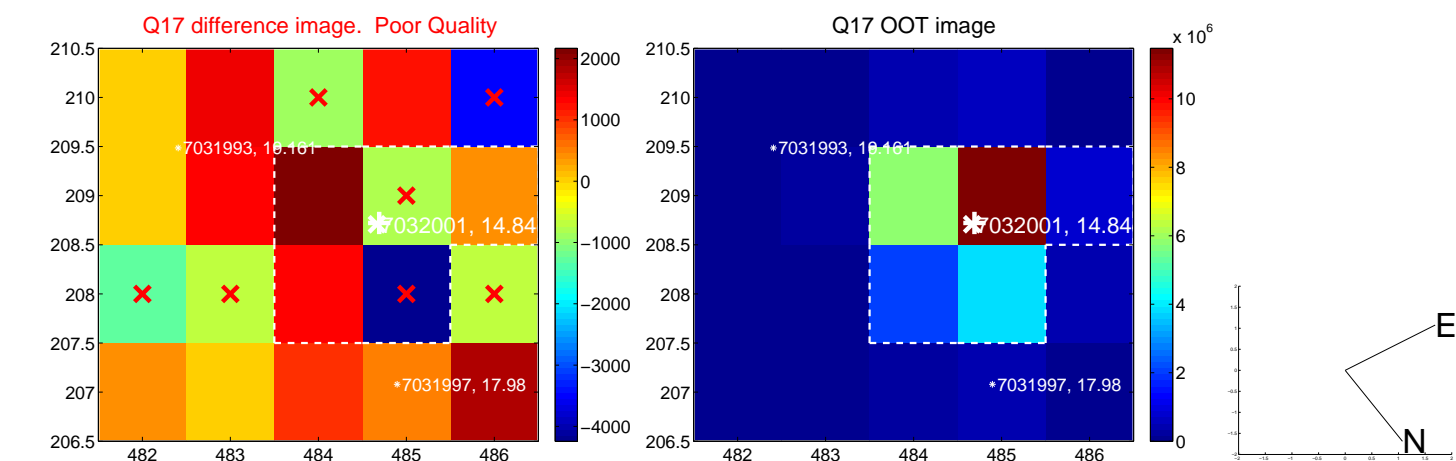
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

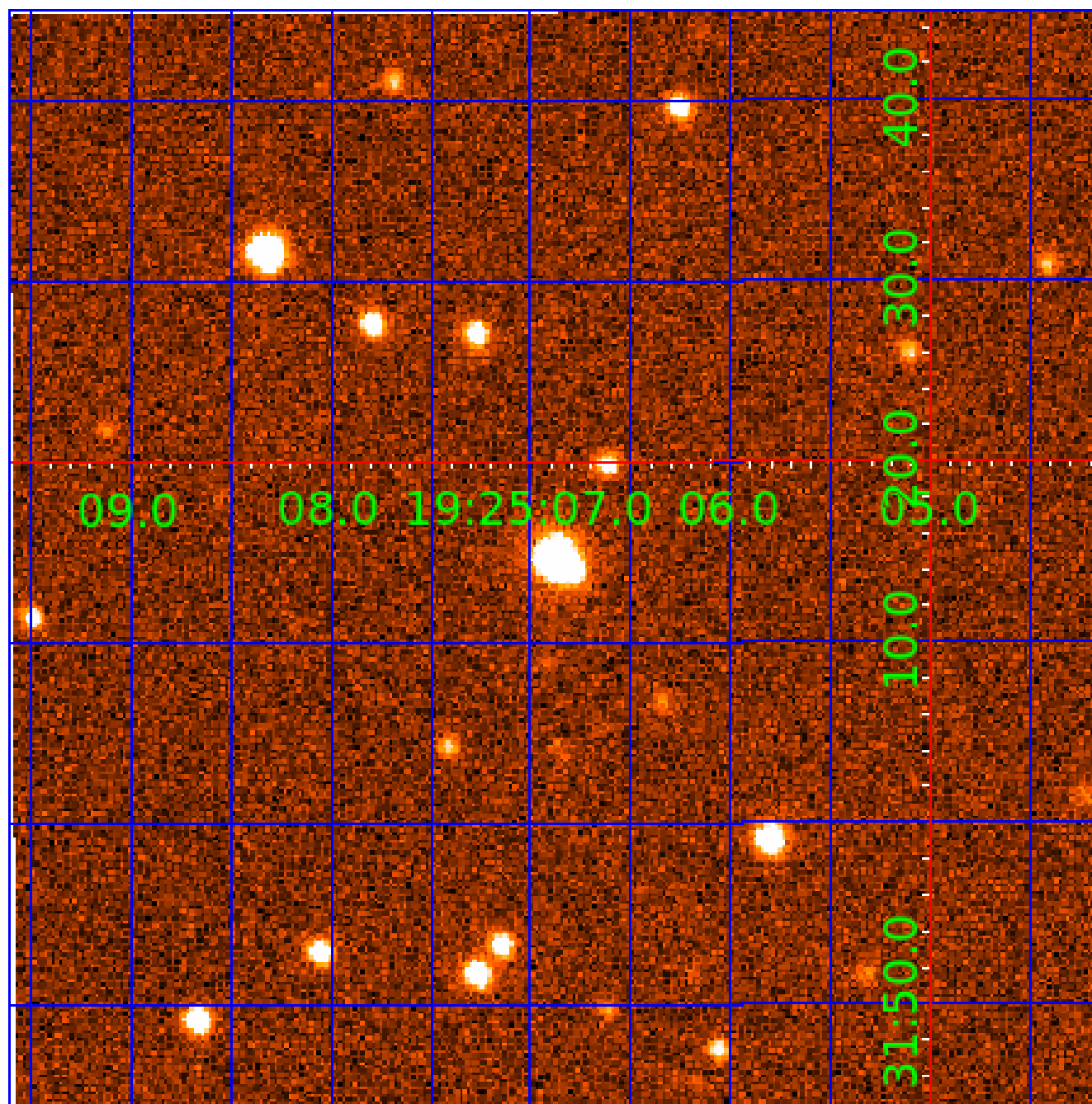


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

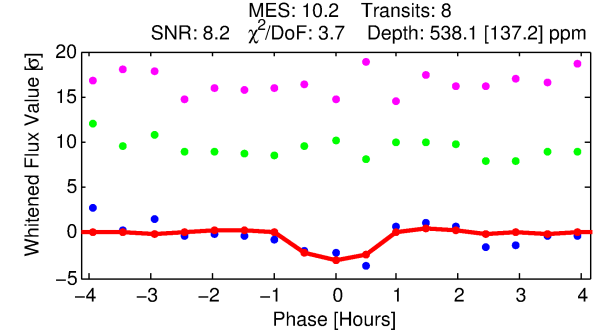
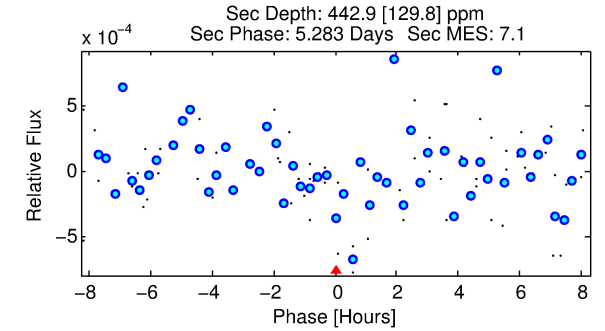
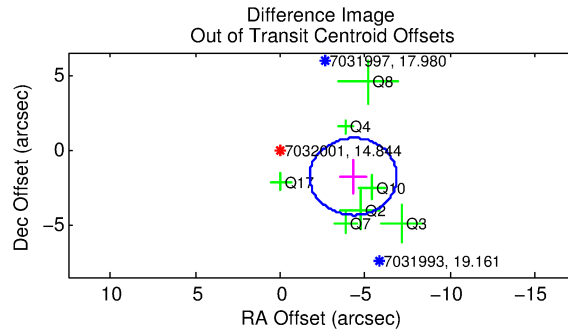
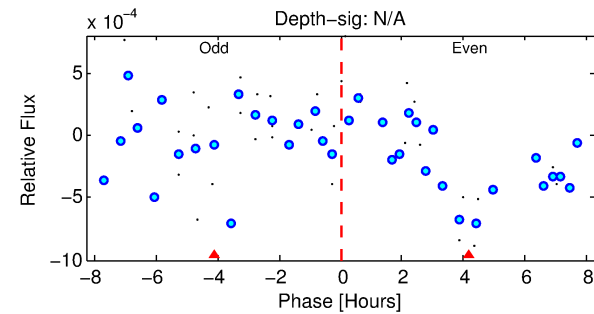
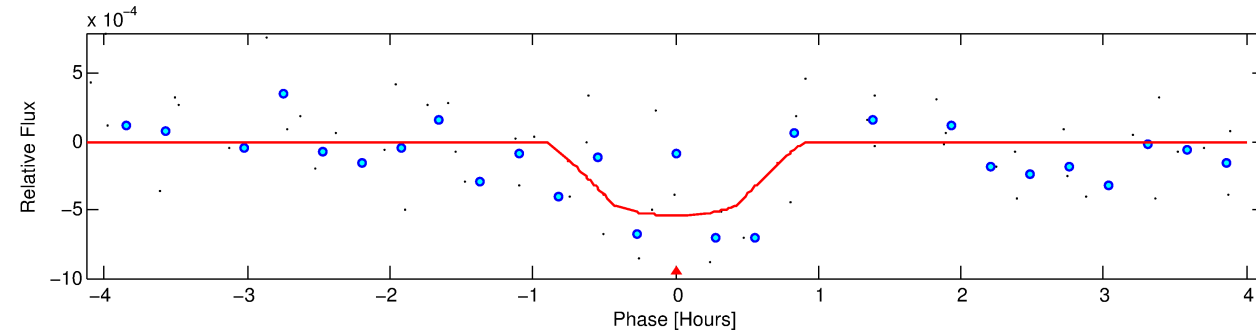
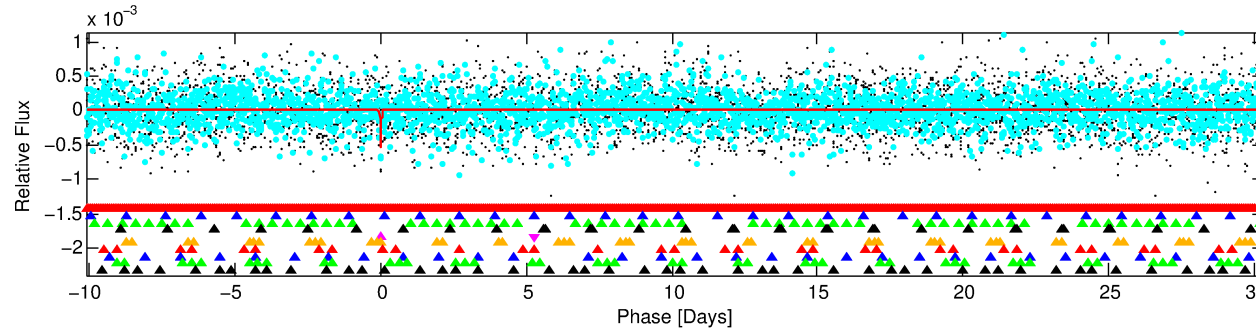
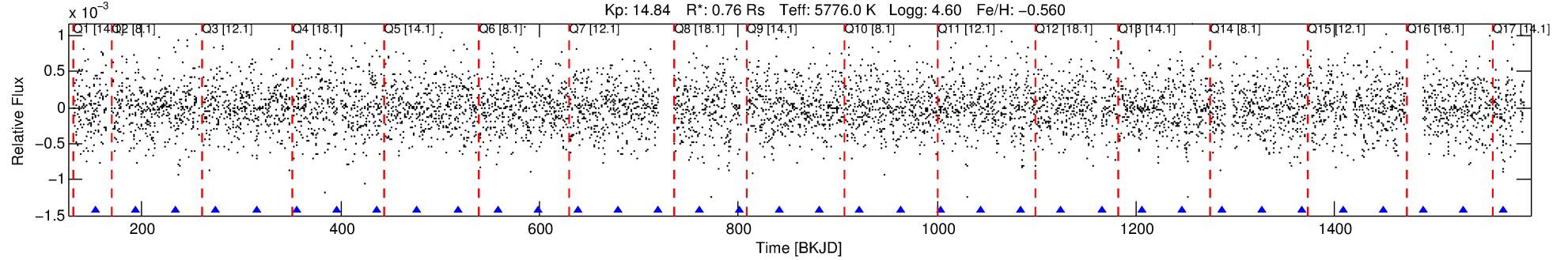
Ephemeris Match Information For 007032001-05

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 5 of 10 Period: 40.479 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



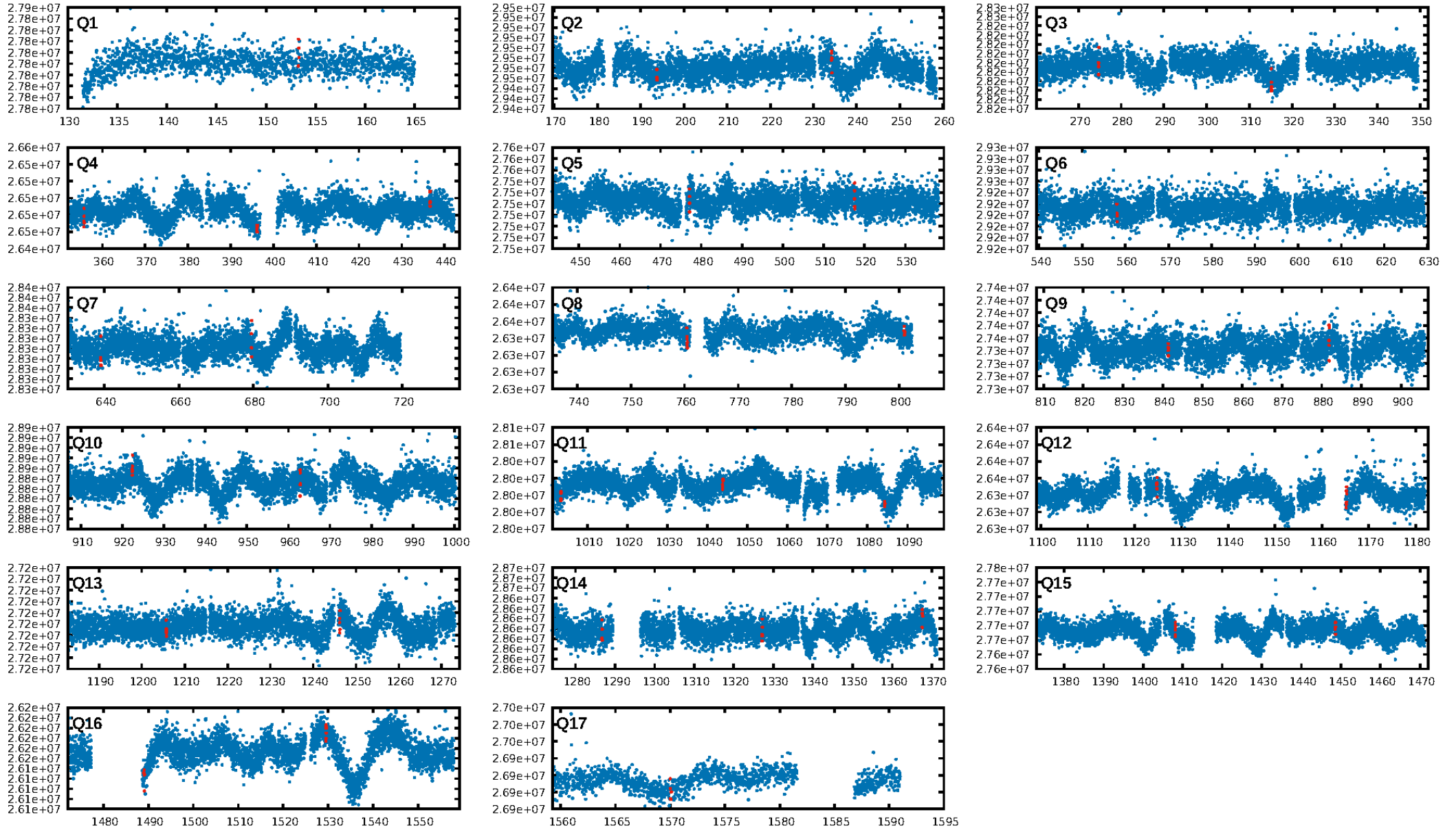
DV Fit Results:

Period = 40.47925 [0.00041] d
Epoch = 153.2724 [0.0099] BKJD
Rp/R* = 0.0213 [0.0840]
a/R* = 227.01 [4219.96]
b = 0.15 [122.06]
Seff = 12.18 [3.85]
Teq = 476 [38] K
Rp = 1.76 [6.96] Re
a = 0.2169 [0.0448] AU
Ag = 3684.45 [29065.99] [0.13σ]
Teff = 5738 [11309] K [0.47σ]

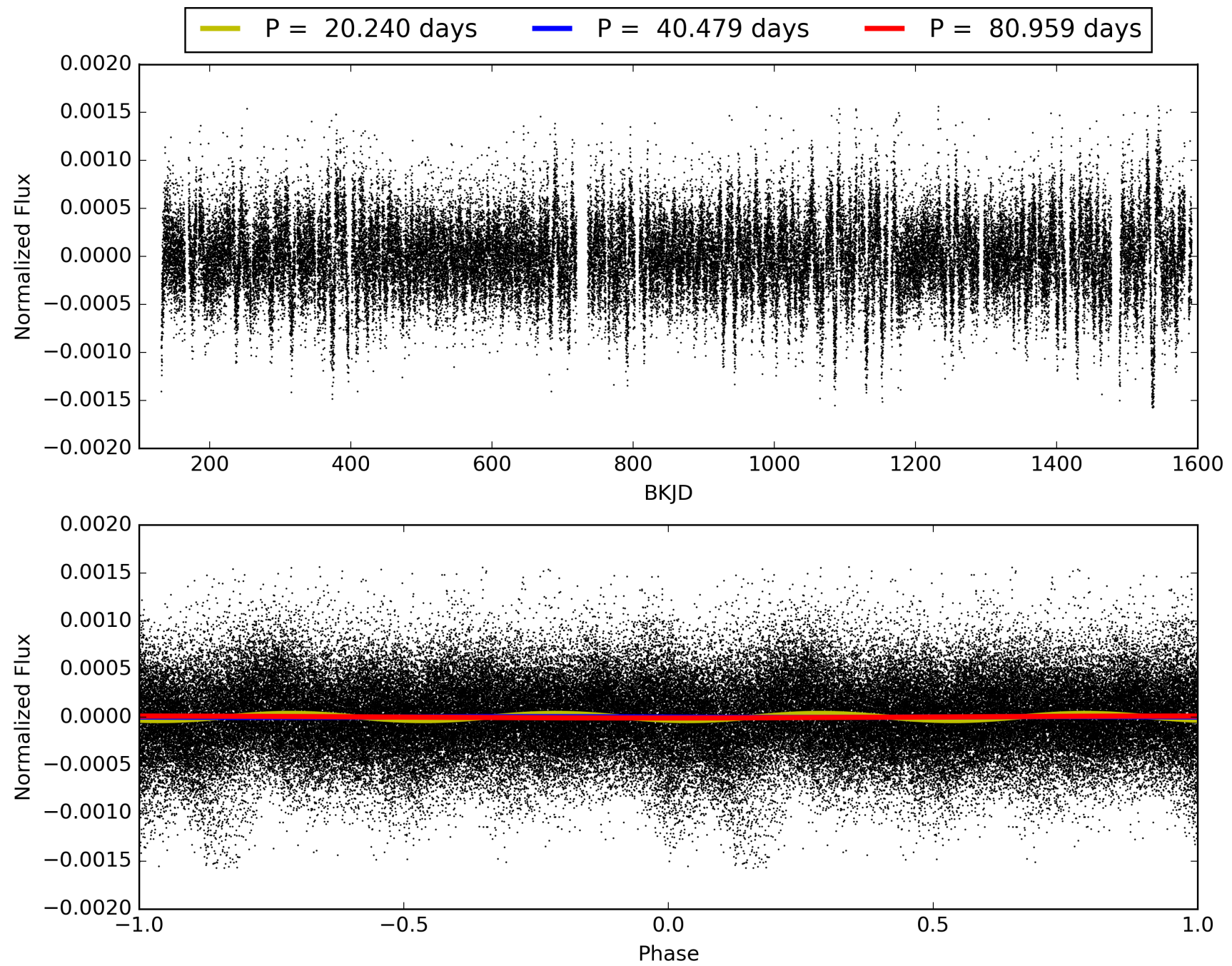
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [18.35σ]
LongPeriod-sig: 100.0% [69.91σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: -2.994
Centroid-sig: N/A
Centroid-so: 2.631 arcsec [2.61σ]
OotOffset-rm: 4.681 arcsec [5.46σ]
KicOffset-rm: 4.616 arcsec [4.95σ]
OotOffset-st: 2/2/2/1 [7]
KicOffset-st: 2/2/2/1 [7]
DiffImageQuality-fgm: 0.29 [2/7]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007032001-05, PDC Light Curves

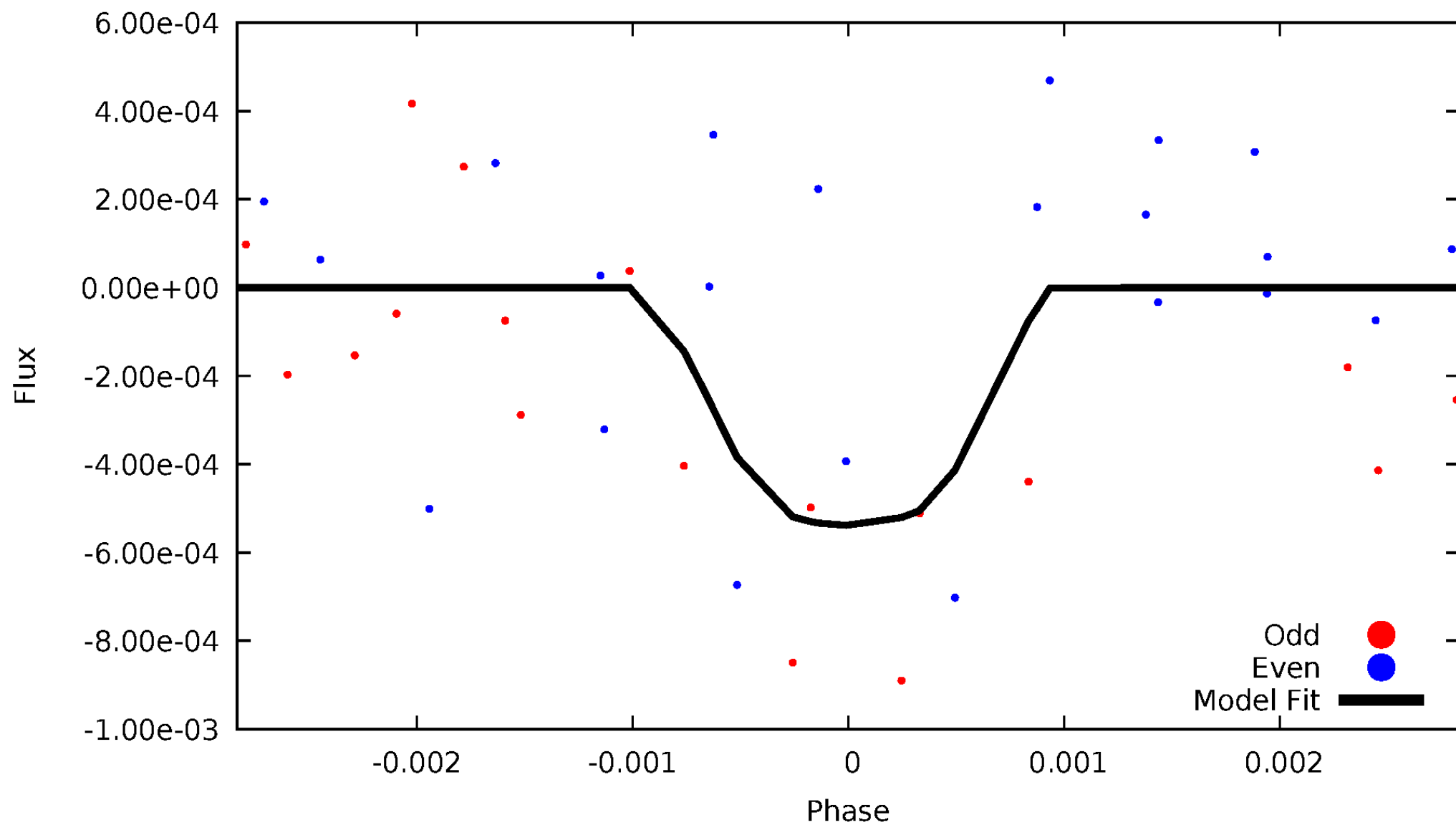


TCE 007032001-05



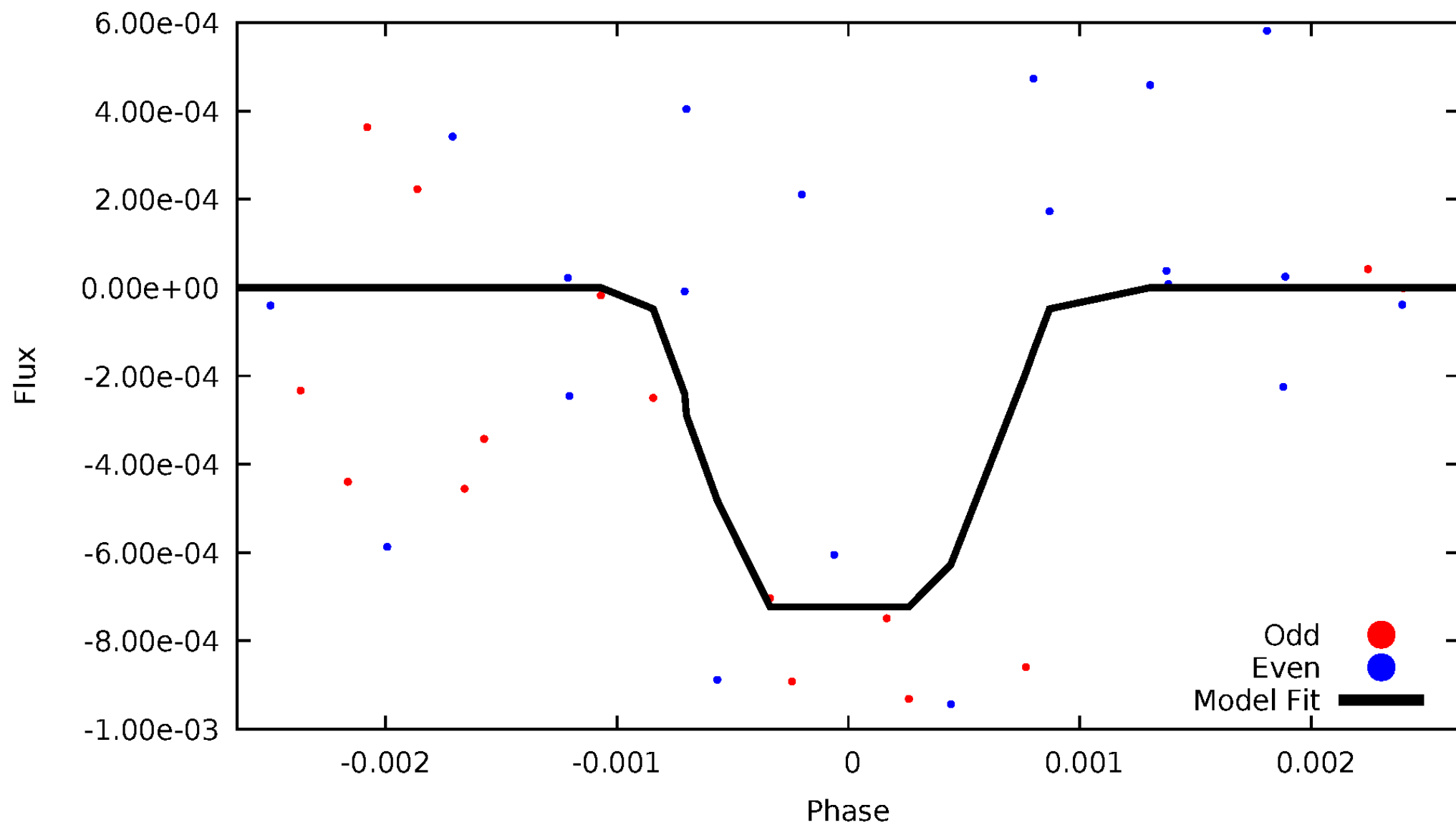
DV Odd/Even

TCE 007032001-05



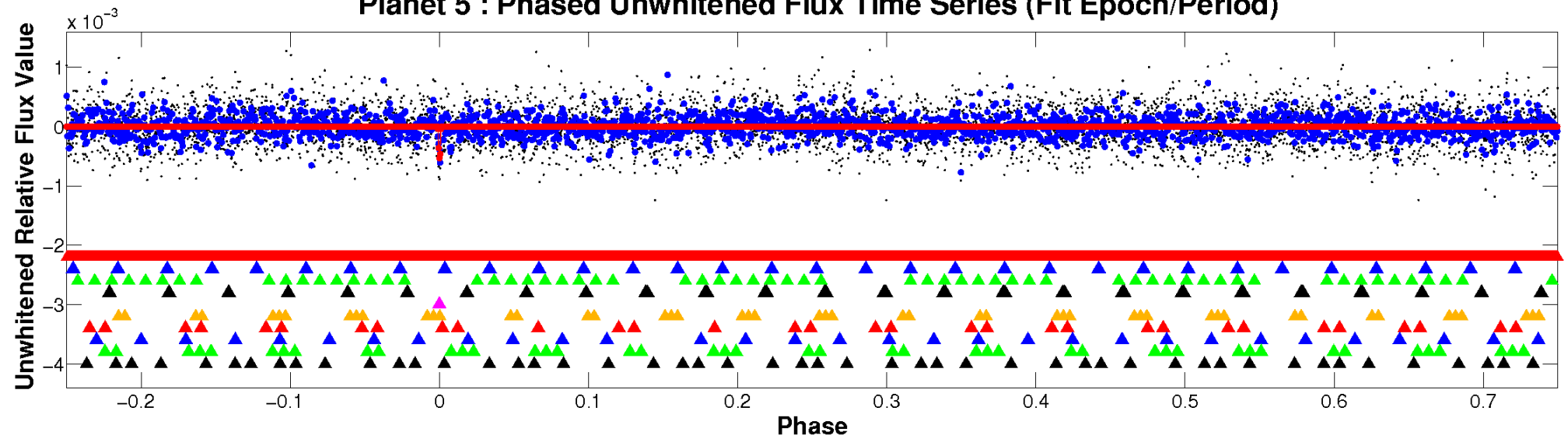
ALT Odd/Even

TCE 007032001-05

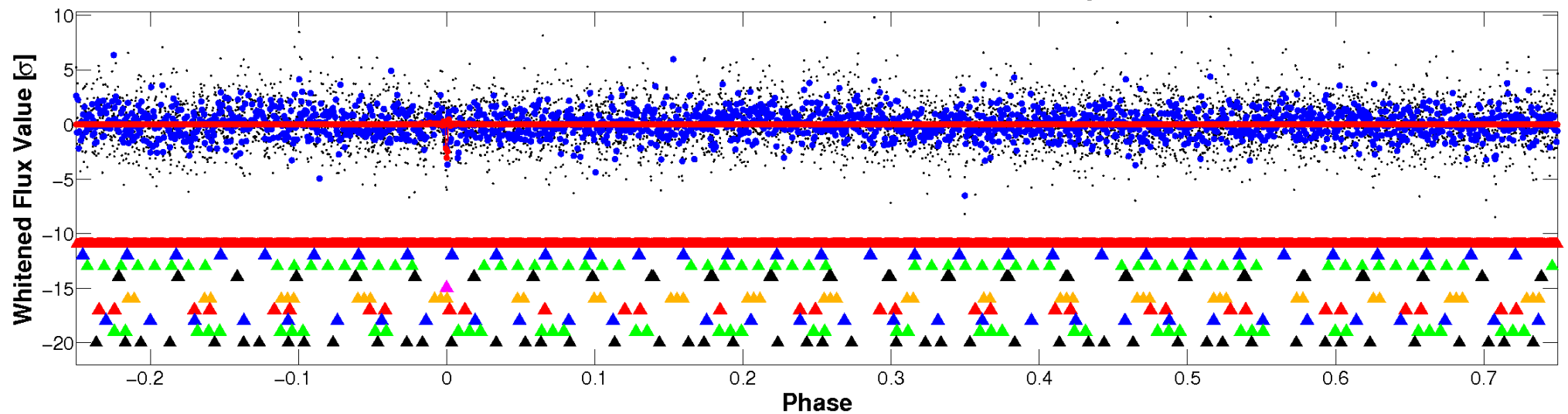


Non-Whitened Vs. Whitened Light Curve

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

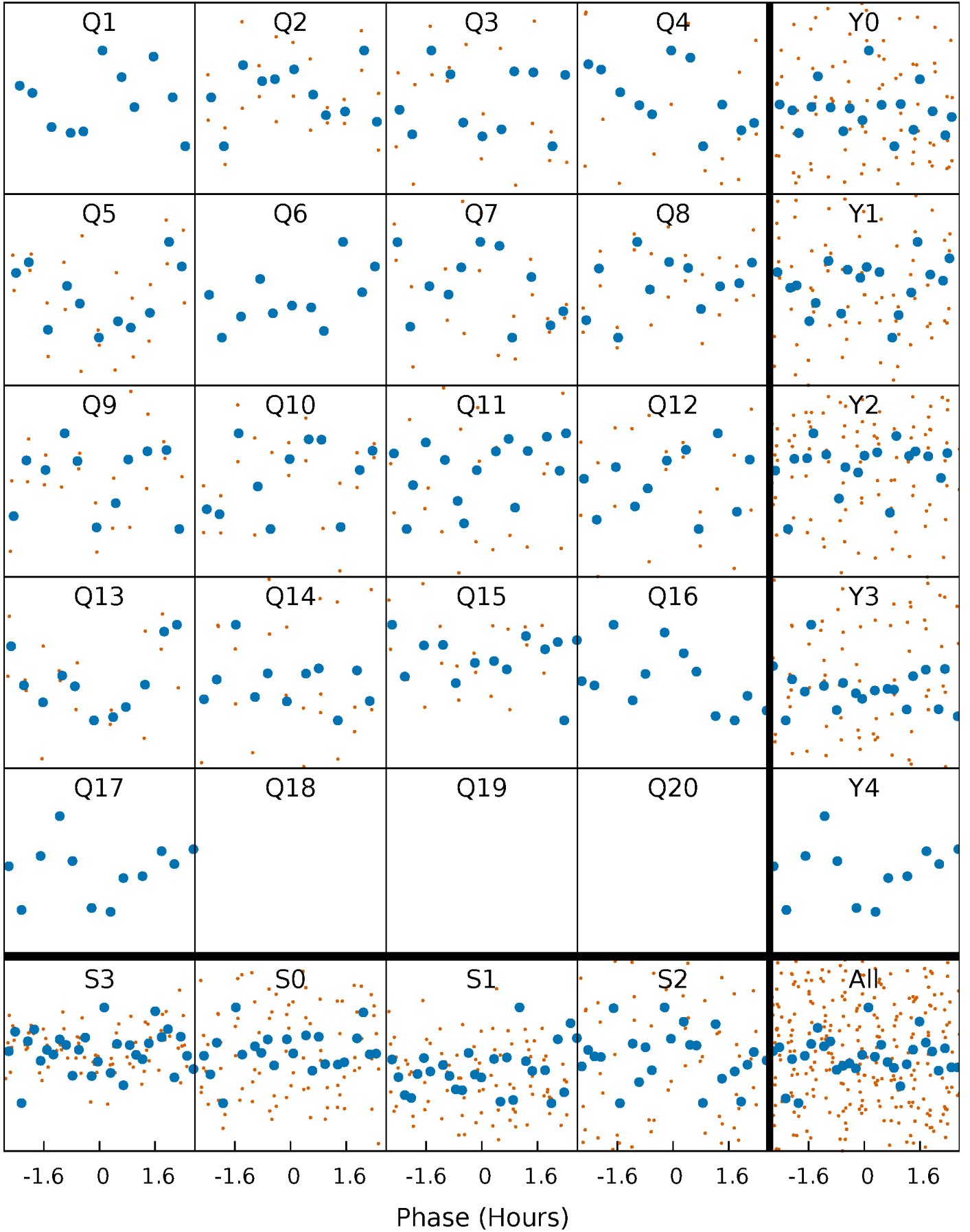


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



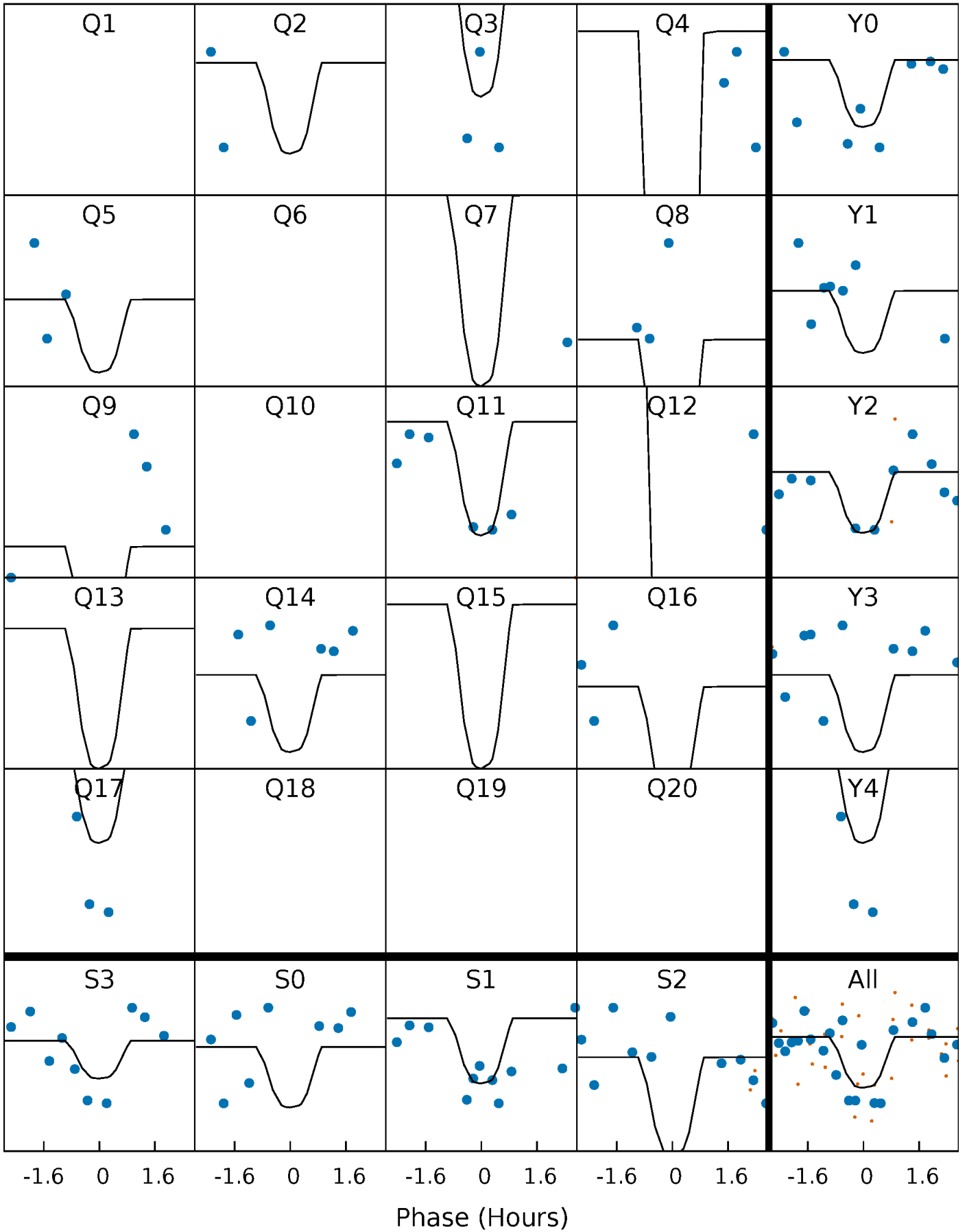
PDC Quarter-Phased Transit Curves

TCE 007032001-05 $P = 40.479251$ Days $T_0 = 153.272365$ (BKJD)



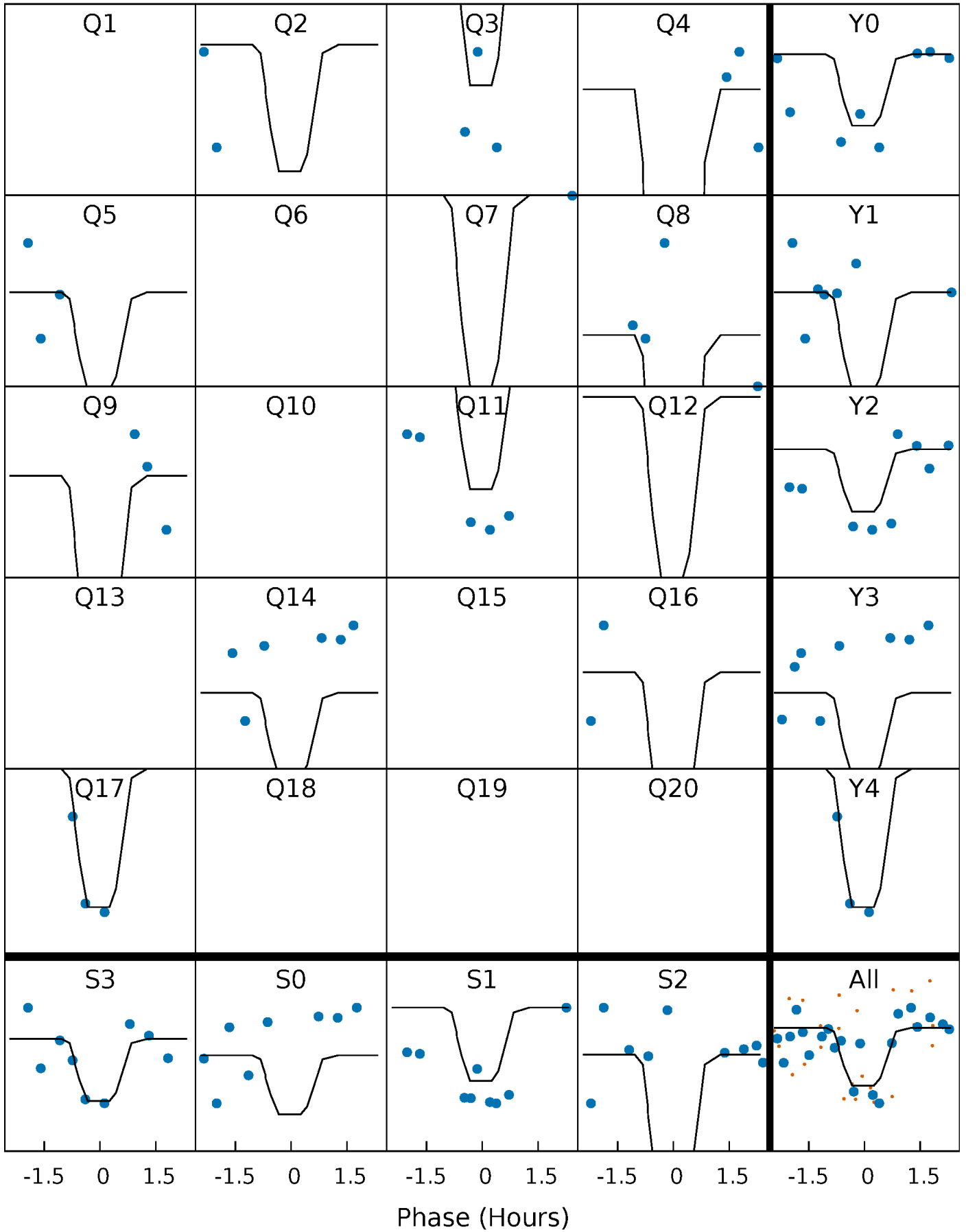
DV Quarter-Phased Transit Curves

TCE 007032001-05 $P = 40.479251$ Days $T_0 = 153.272365$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

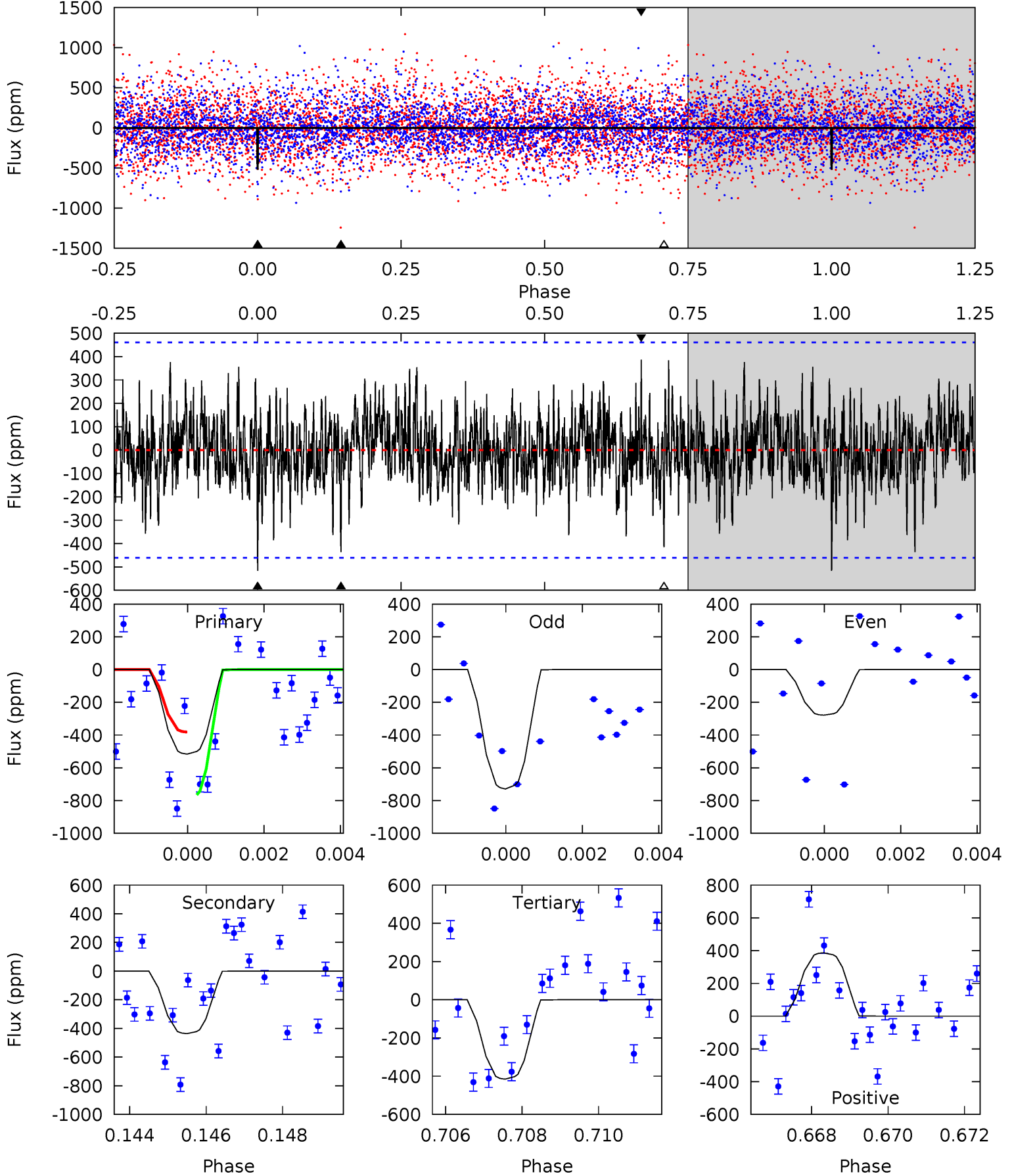
TCE 007032001-05 $P = 40.479290$ Days $T_0 = 153.274260$ (BKJD)



DV Model-Shift Uniqueness Test

007032001-05, $P = 40.479251$ Days, $E = 112.793114$ Days

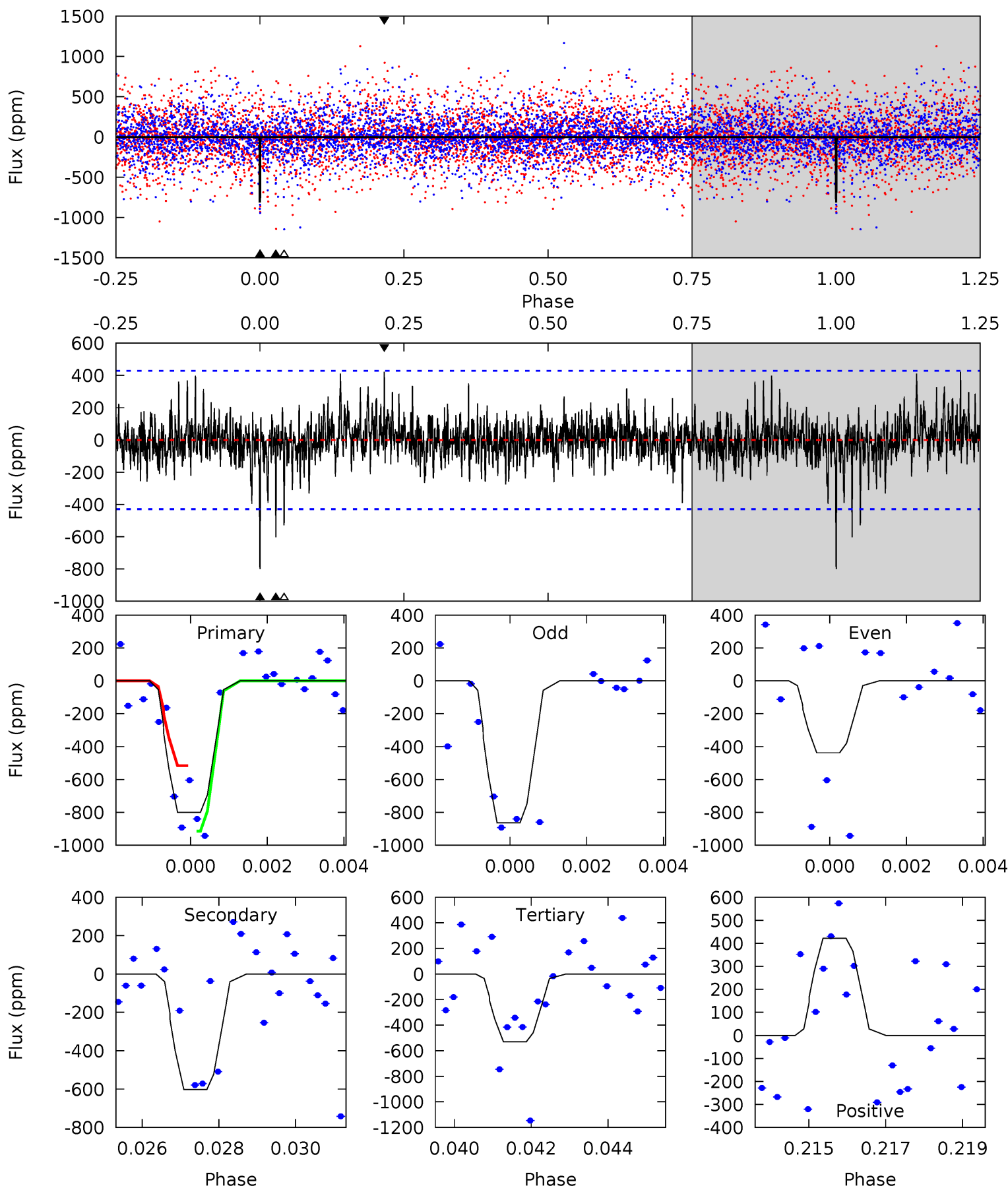
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.97	5.04	4.80	4.47	5.32	3.09	1.38	1.17	1.50	0.24	0.57	2.64	0.80	0.43	2.22



Alt Model-Shift Uniqueness Test

007032001-05, P = 40.479290 Days, E = 112.794970 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.95	7.49	6.58	5.25	5.33	3.09	1.25	3.37	4.70	0.91	2.24	2.71	0.74	0.35	2.62



Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-437 ± 87	$5.75^{+5.88}_{-3.97}$	676^{+41}_{-25}	3665^{+2198}_{-713}	333^{+3314}_{-250}
Alt.	-603 ± 80	$6.04^{+5.82}_{-4.02}$	678^{+37}_{-29}	3788^{+2085}_{-707}	426^{+3252}_{-319}

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

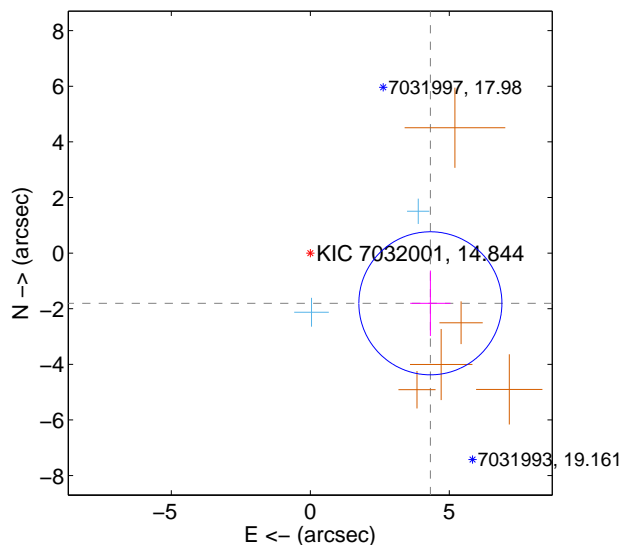
Supplemental centroid analysis for 007032001-05. Kepler magnitude: 14.84. Transit SNR 8.22

There are 2 quarters with good PRF difference image offsets

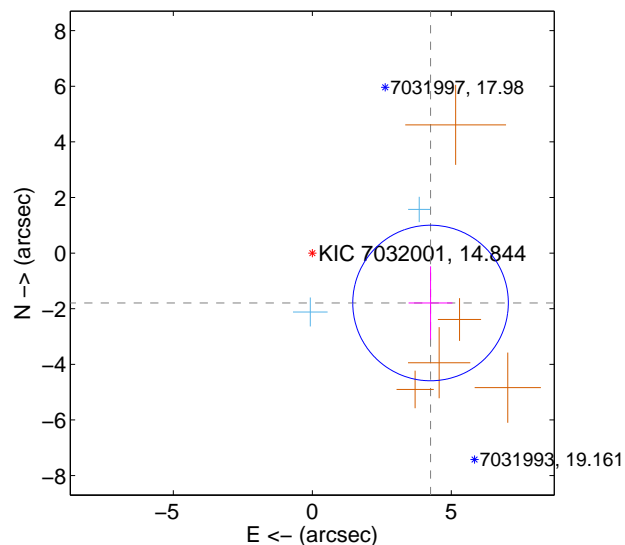
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.681 ± 0.857	5.46	-4.319 ± 0.723	-1.806 ± 1.176
PRF-fit source offset from KIC position	4.616 ± 0.932	4.95	-4.252 ± 0.789	-1.795 ± 1.317
photometric centroid source offset	2.63 ± 1.01	2.61	2.23 ± 1.01	1.39 ± 1.01

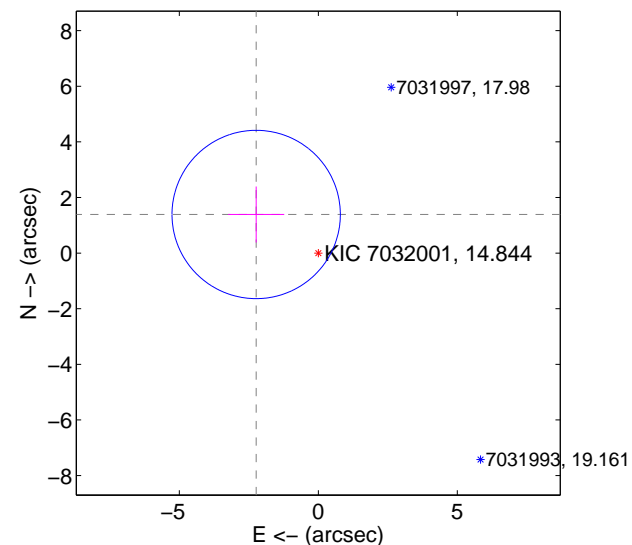
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

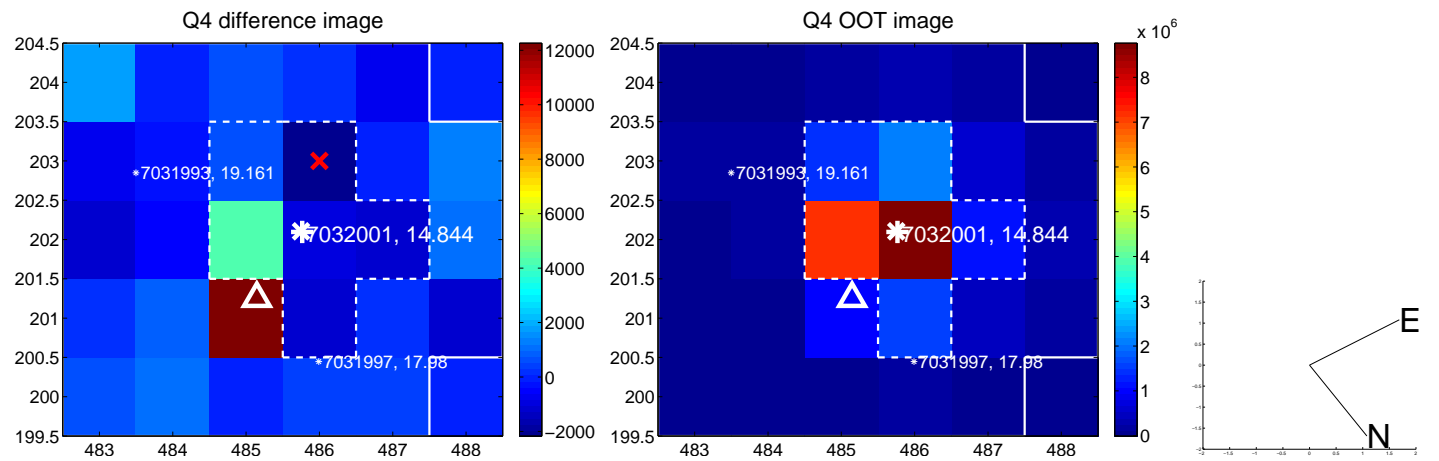
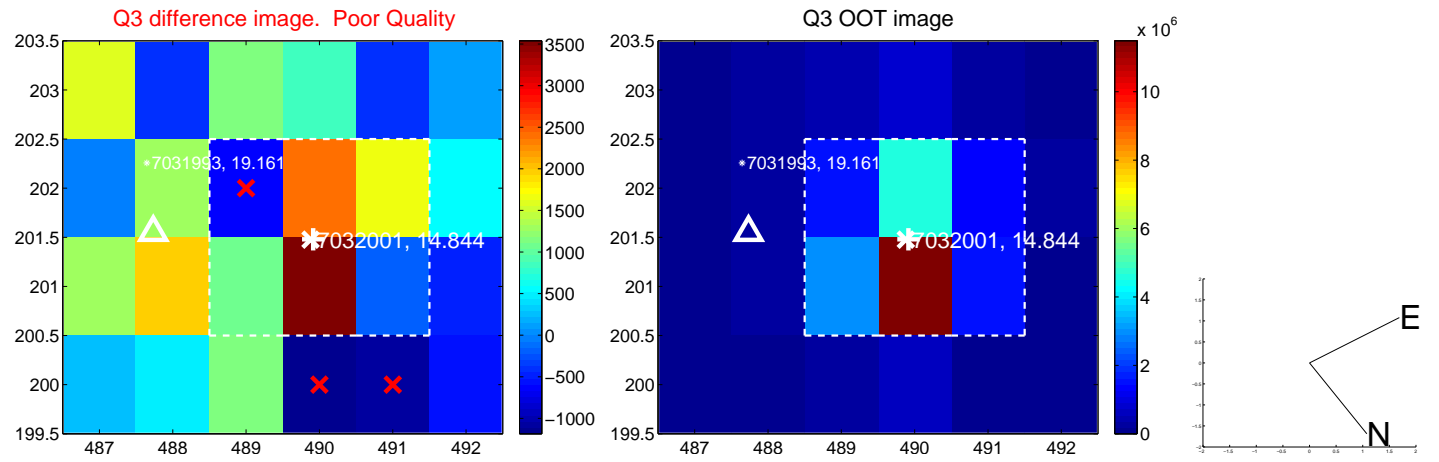
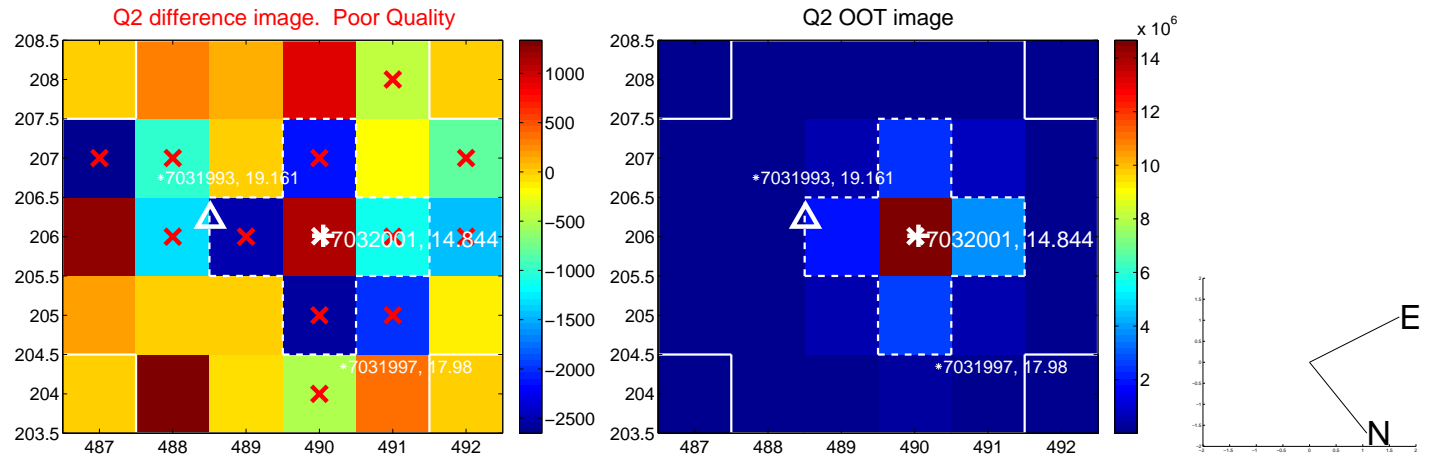
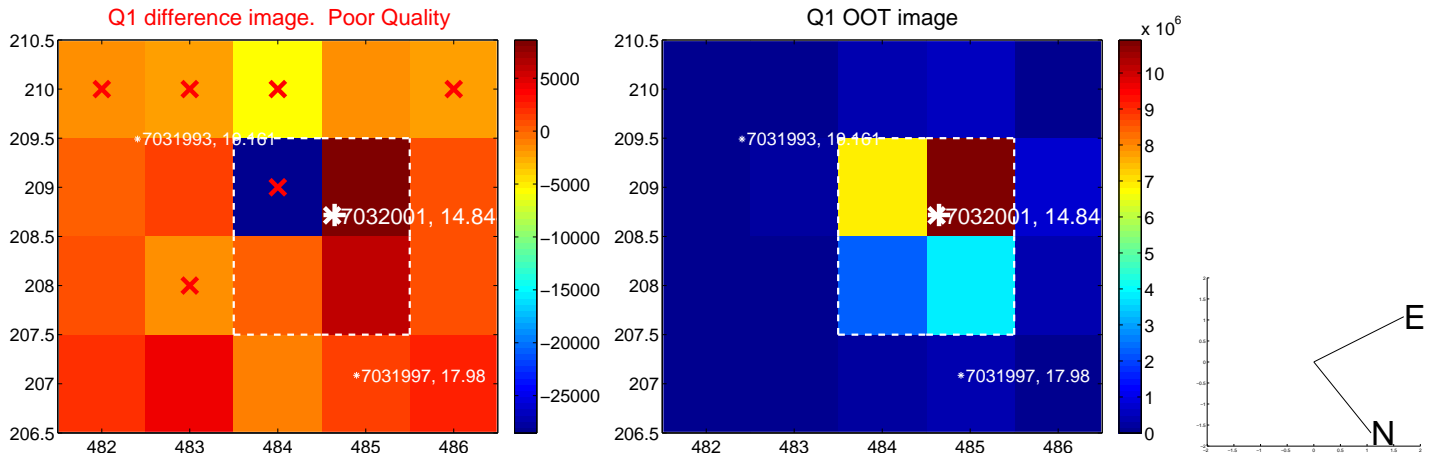


offset from photometric centroids

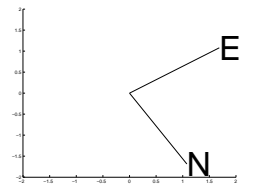
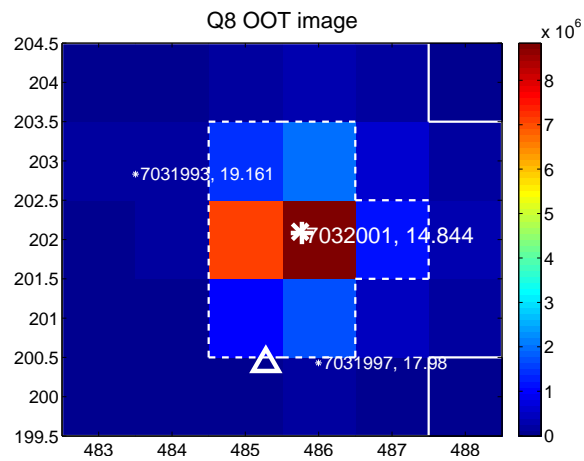
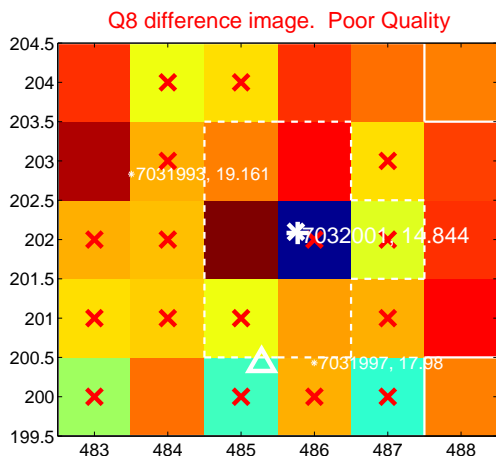
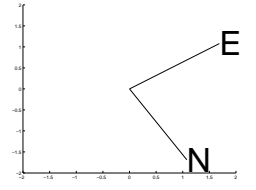
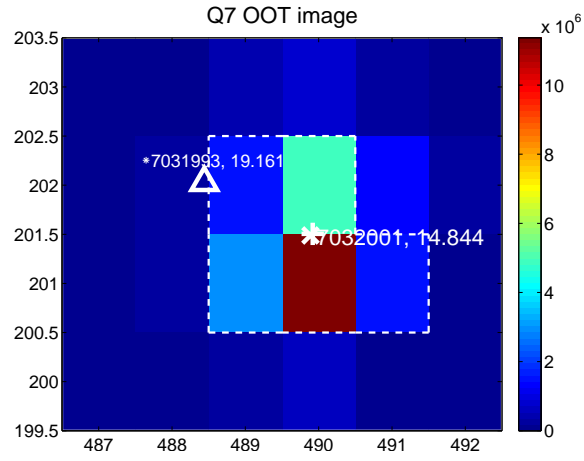
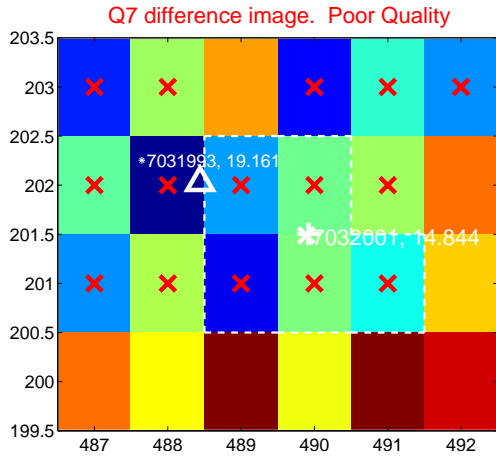
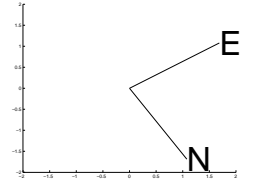
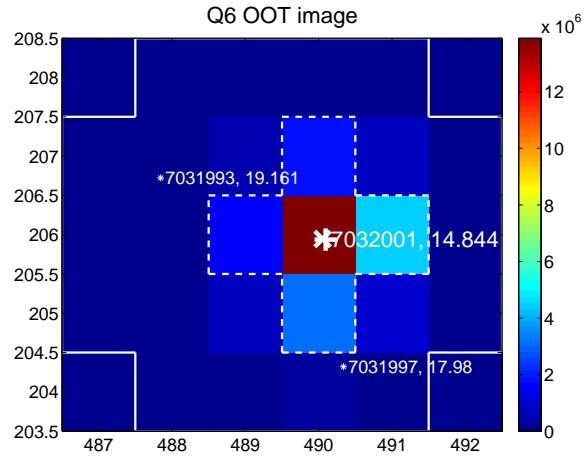
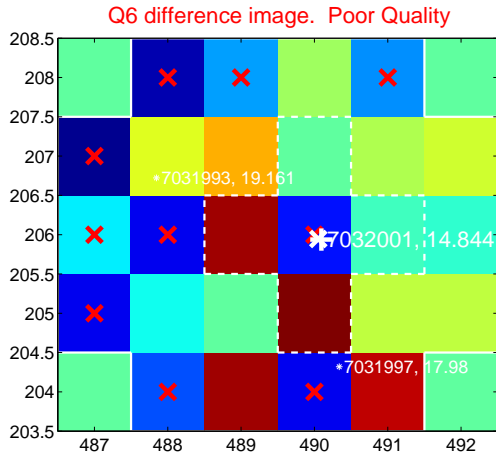
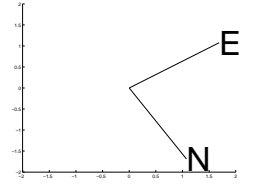
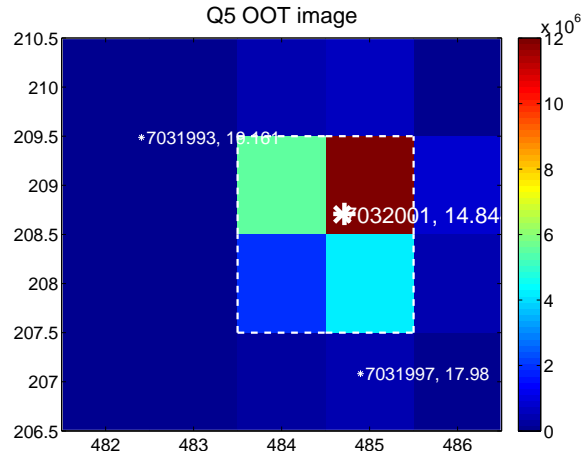
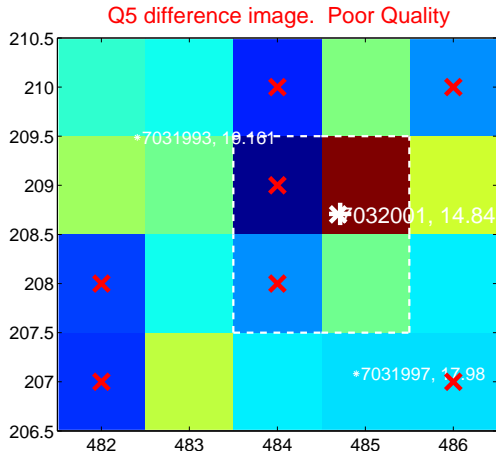


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

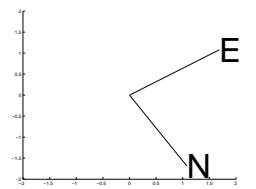
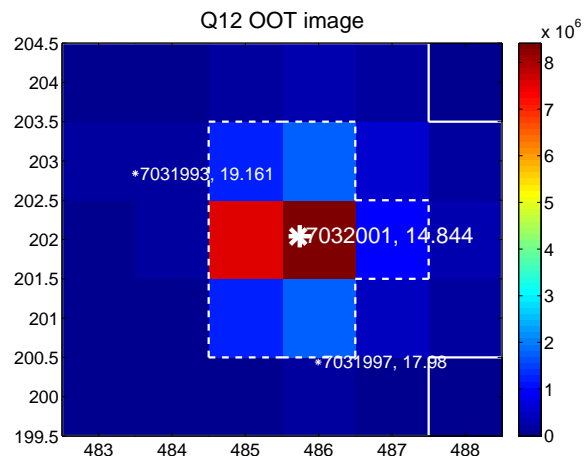
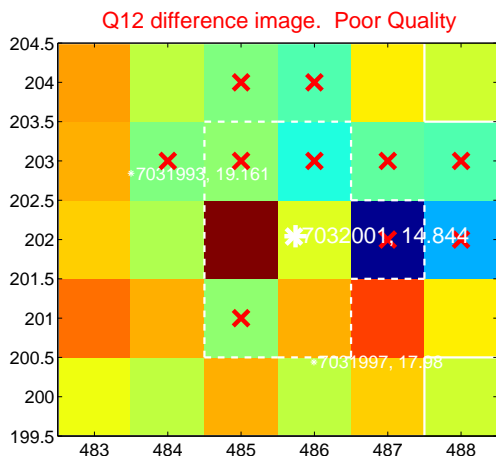
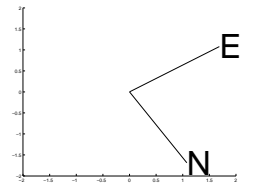
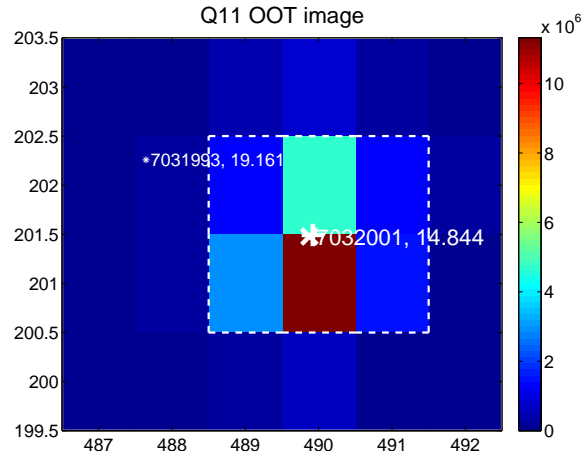
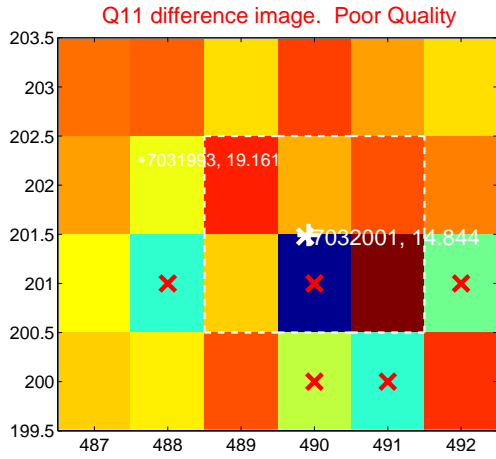
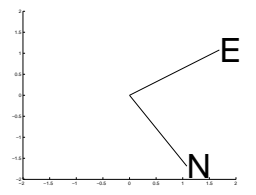
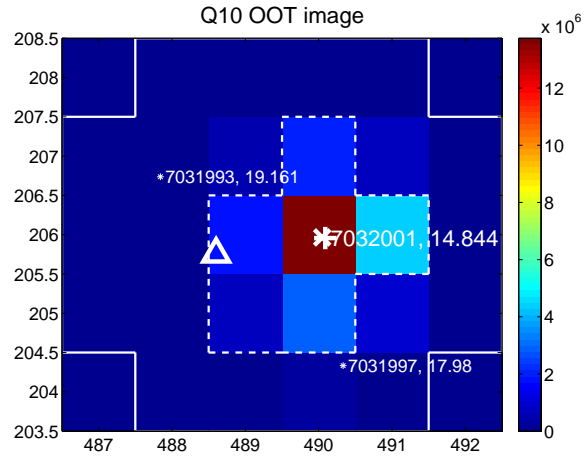
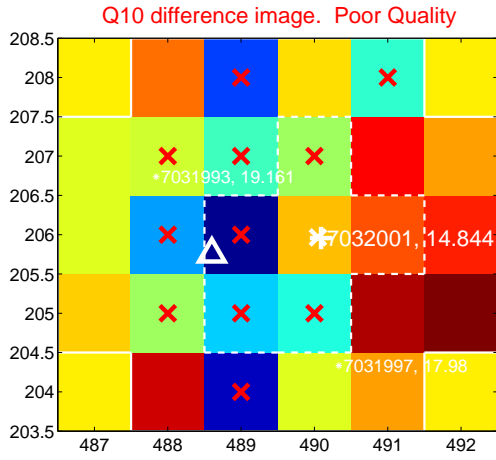
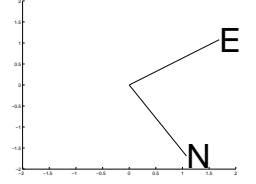
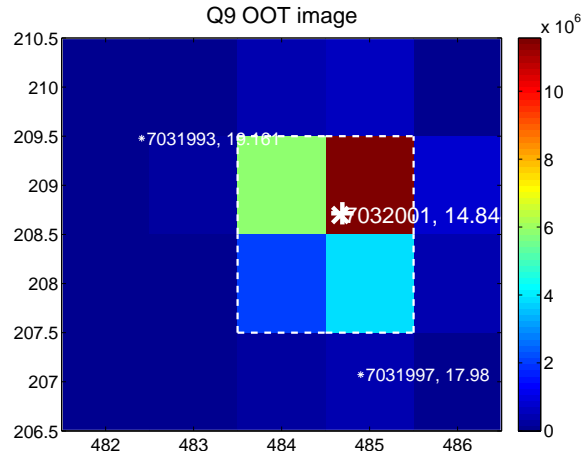
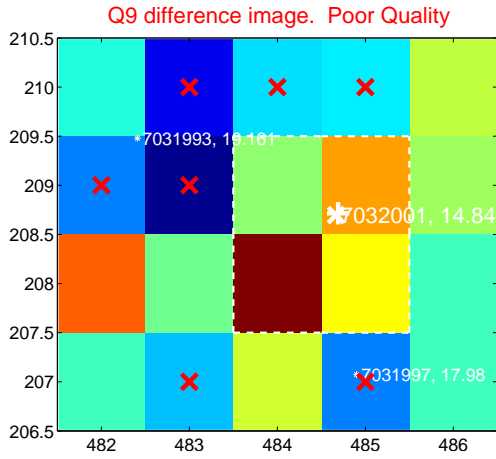
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



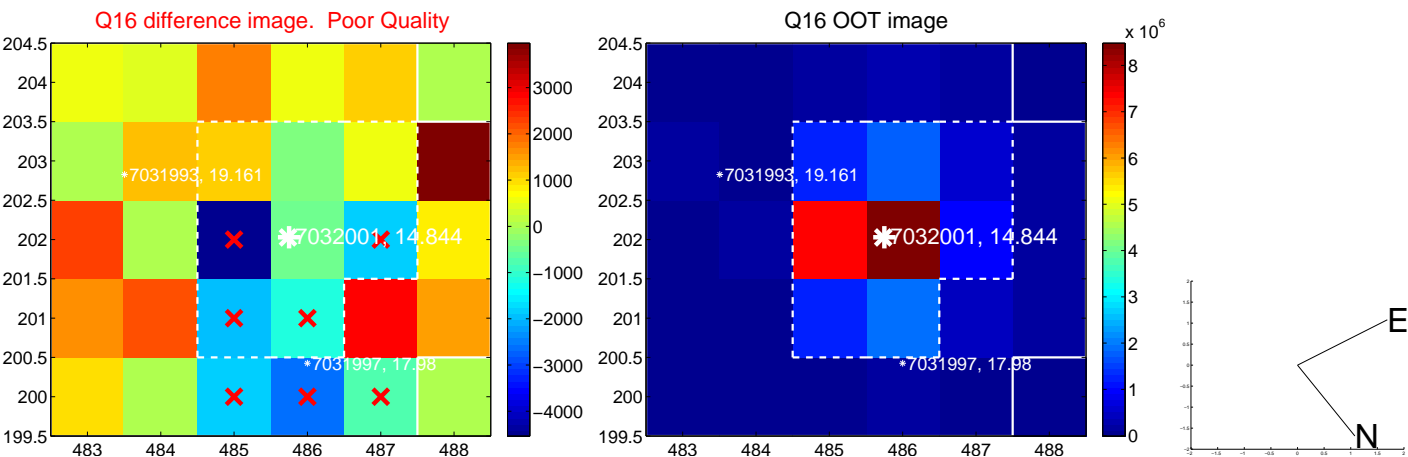
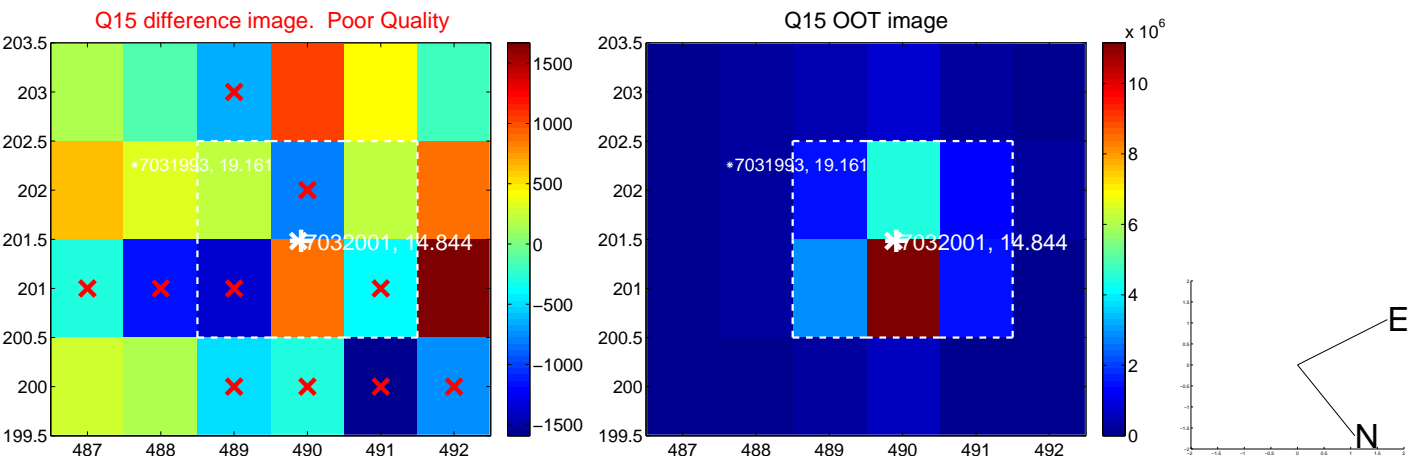
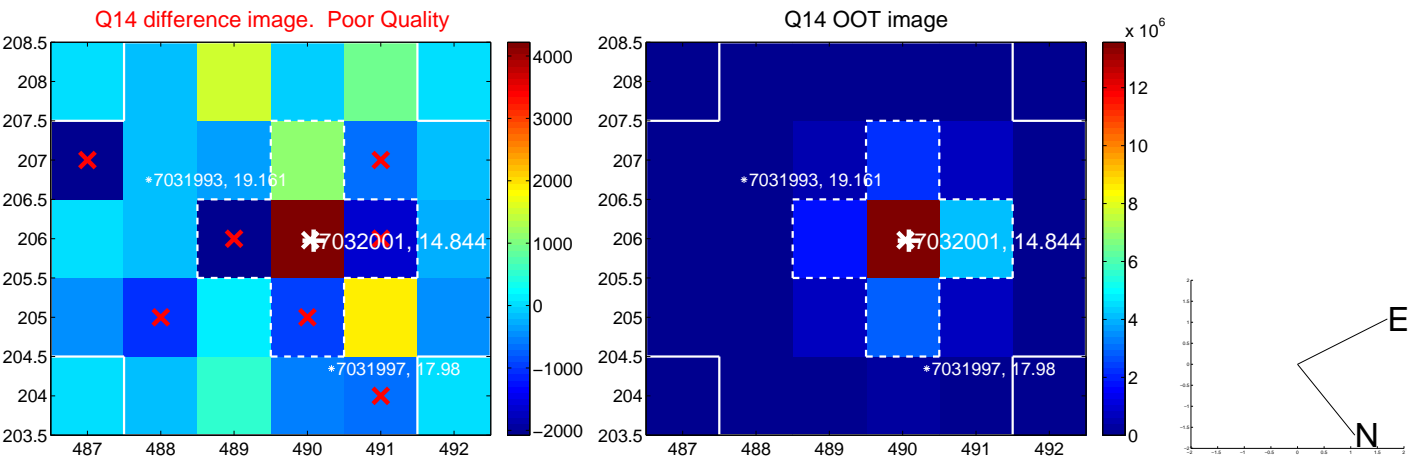
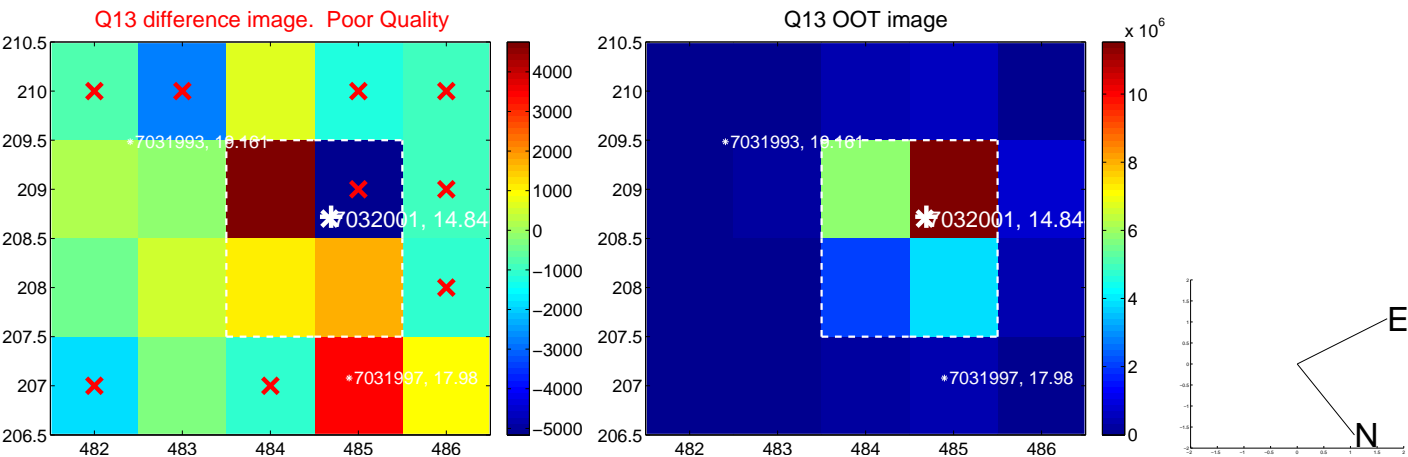
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



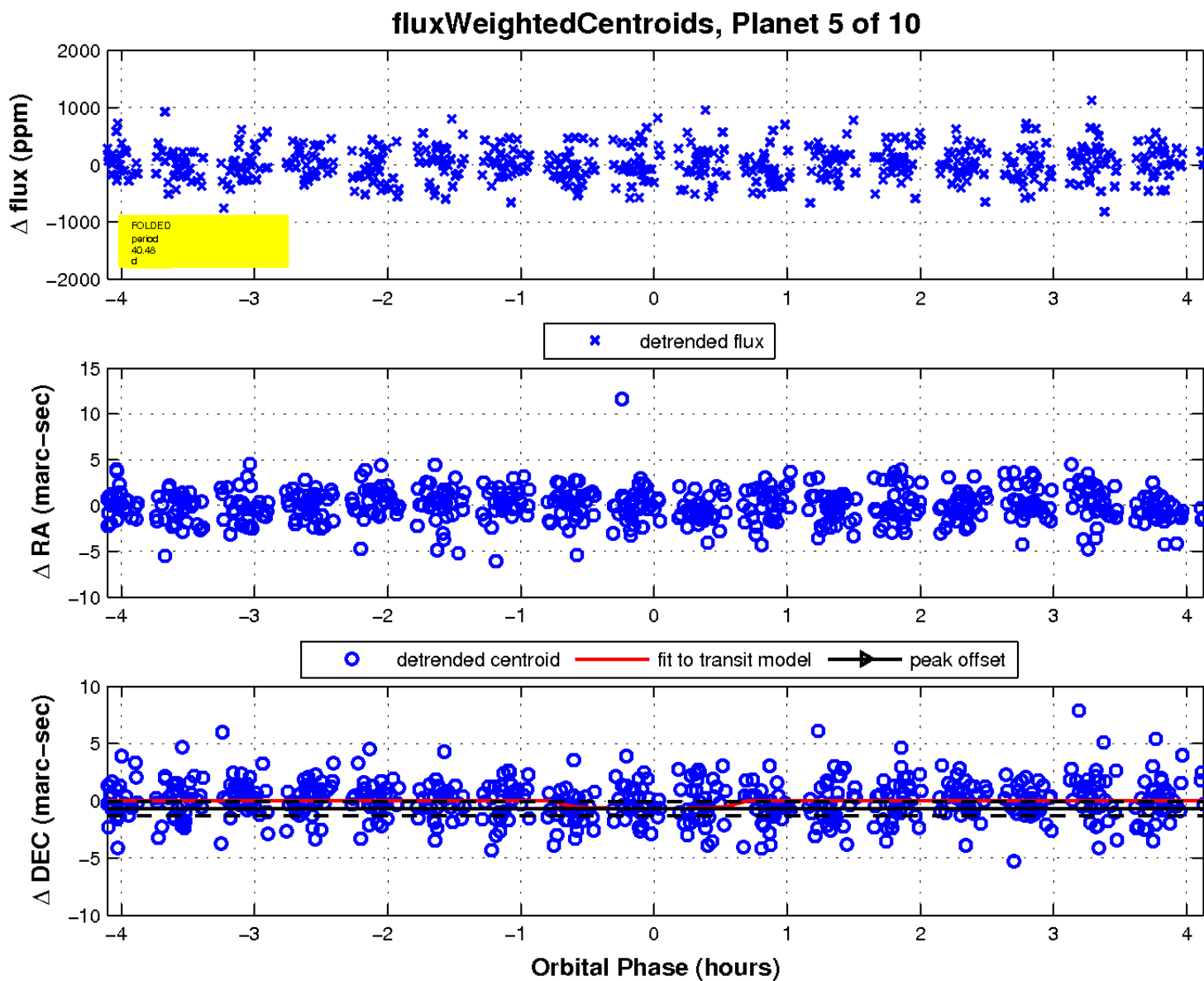
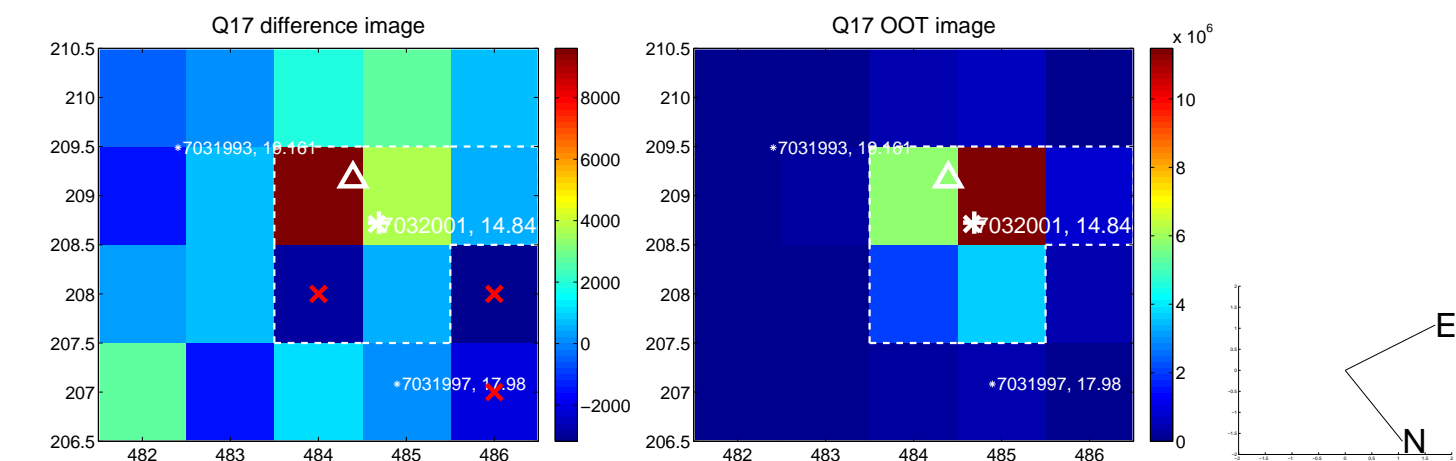
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

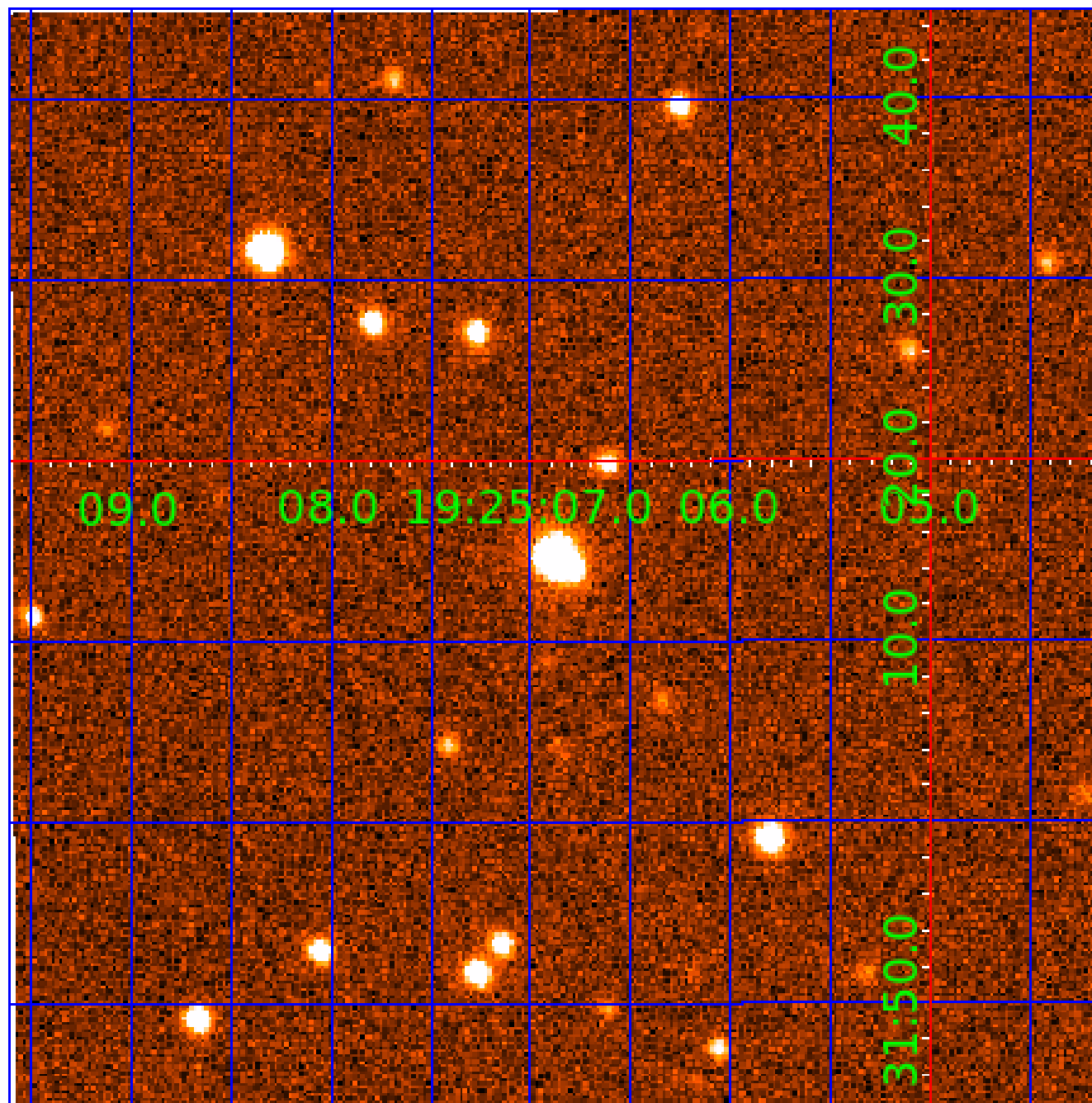


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

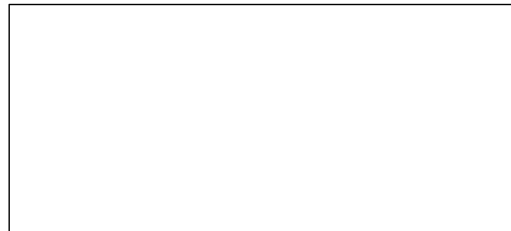
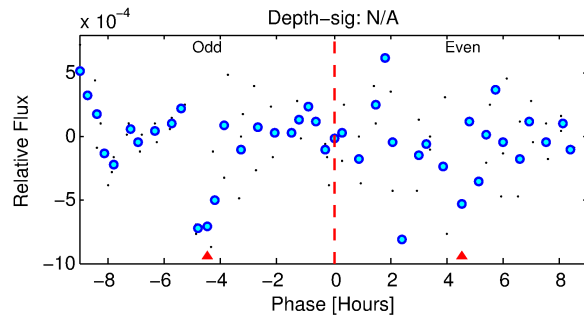
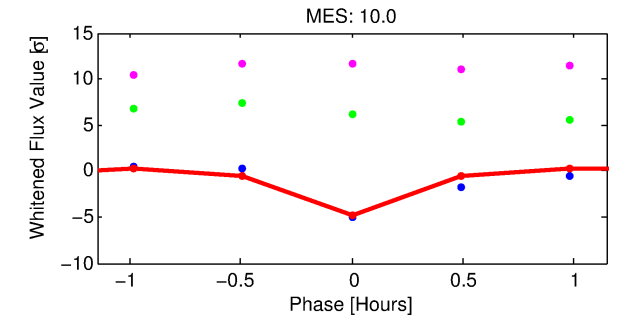
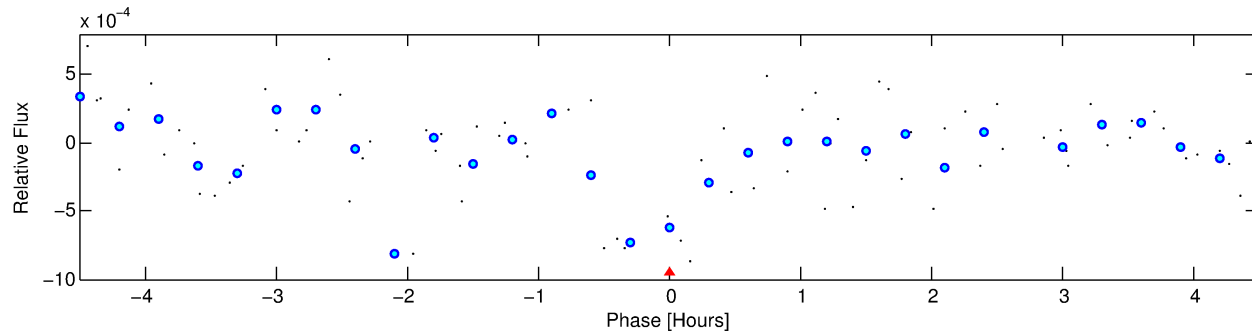
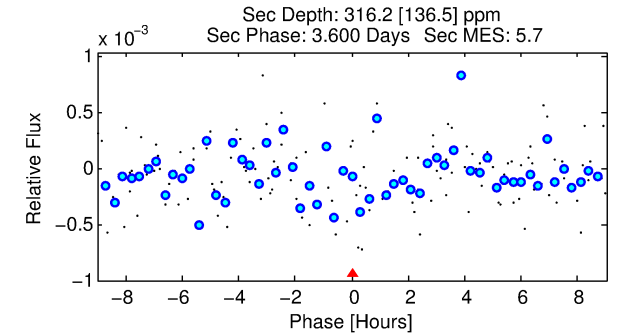
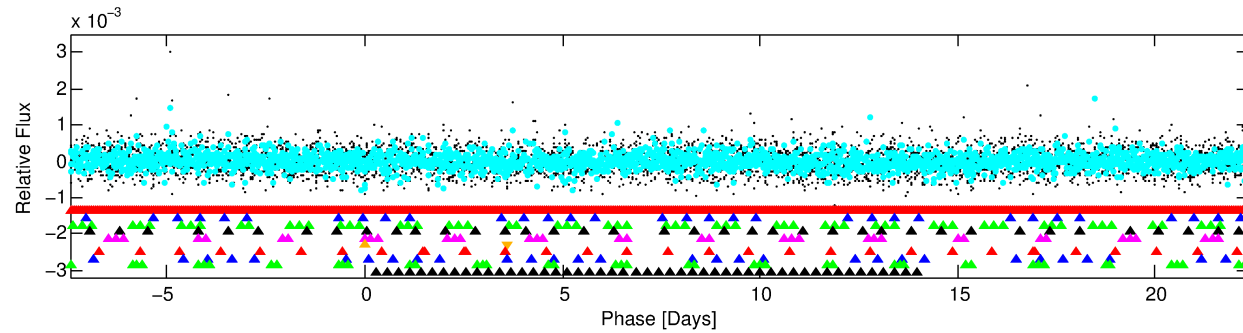
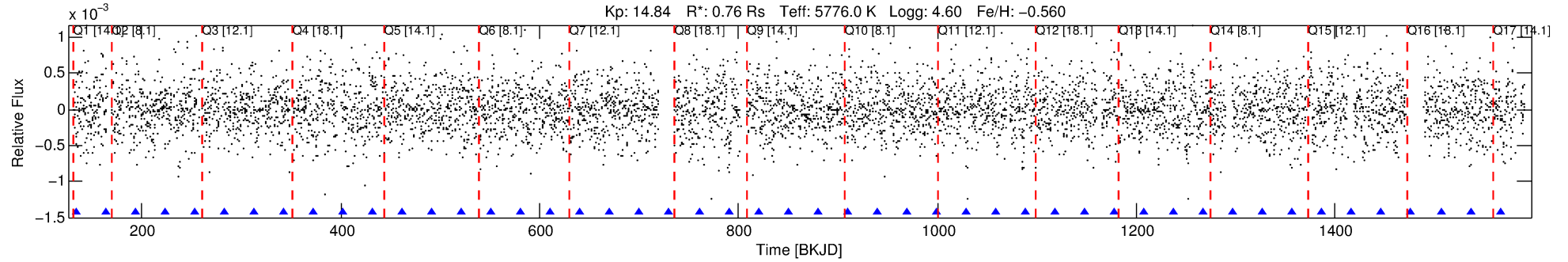
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007032001-06

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 6 of 10 Period: 29.836 d
KOI: K04518 Corr: No Ephemeris Match



TPS TCE Results:

Period = 29.83579 d
Epoch = 133.7516 BKJD

DV fit results are unavailable

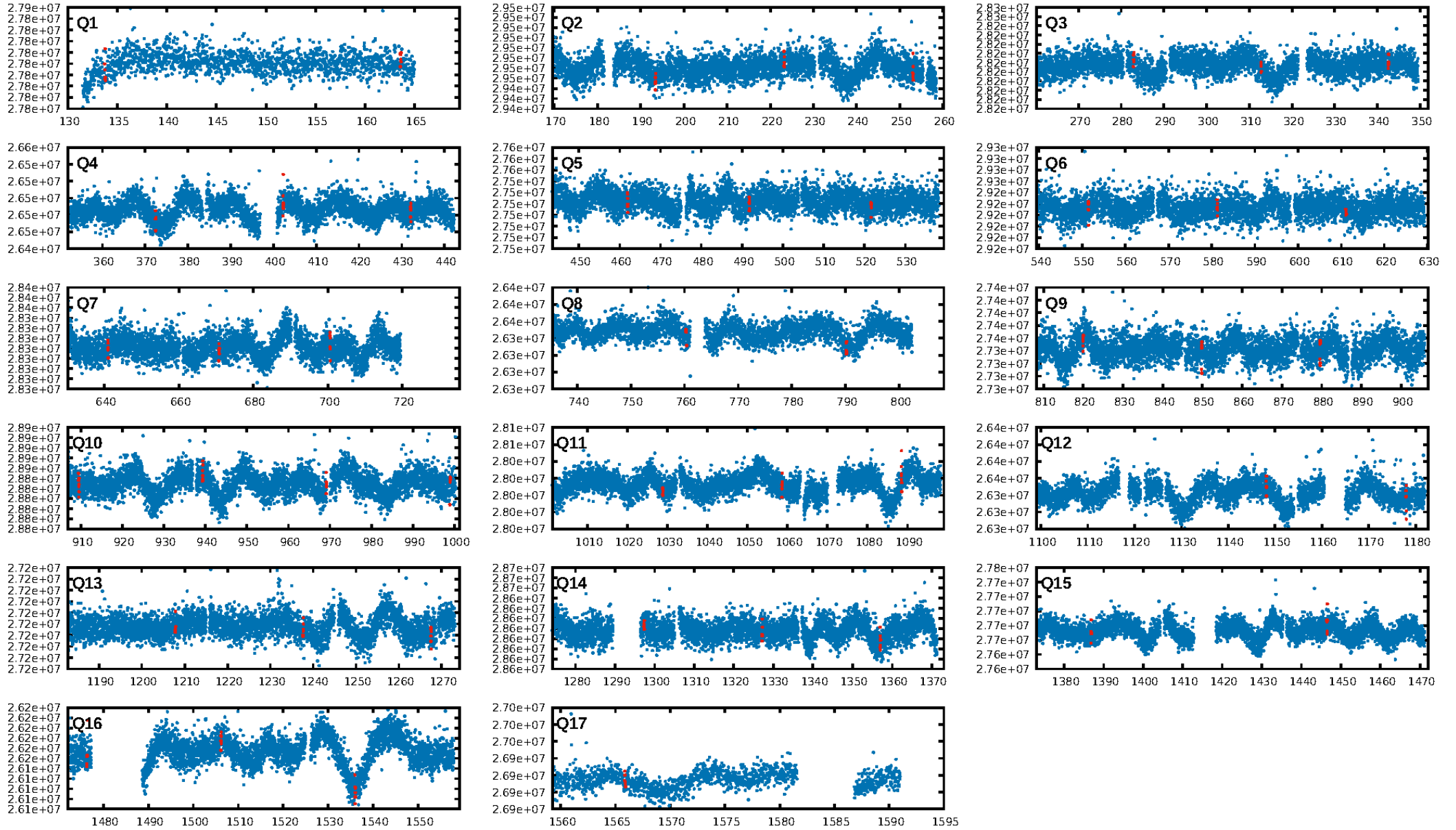
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [3.48σ]
LongPeriod-sig: 100.0% [44.19σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: N/A
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

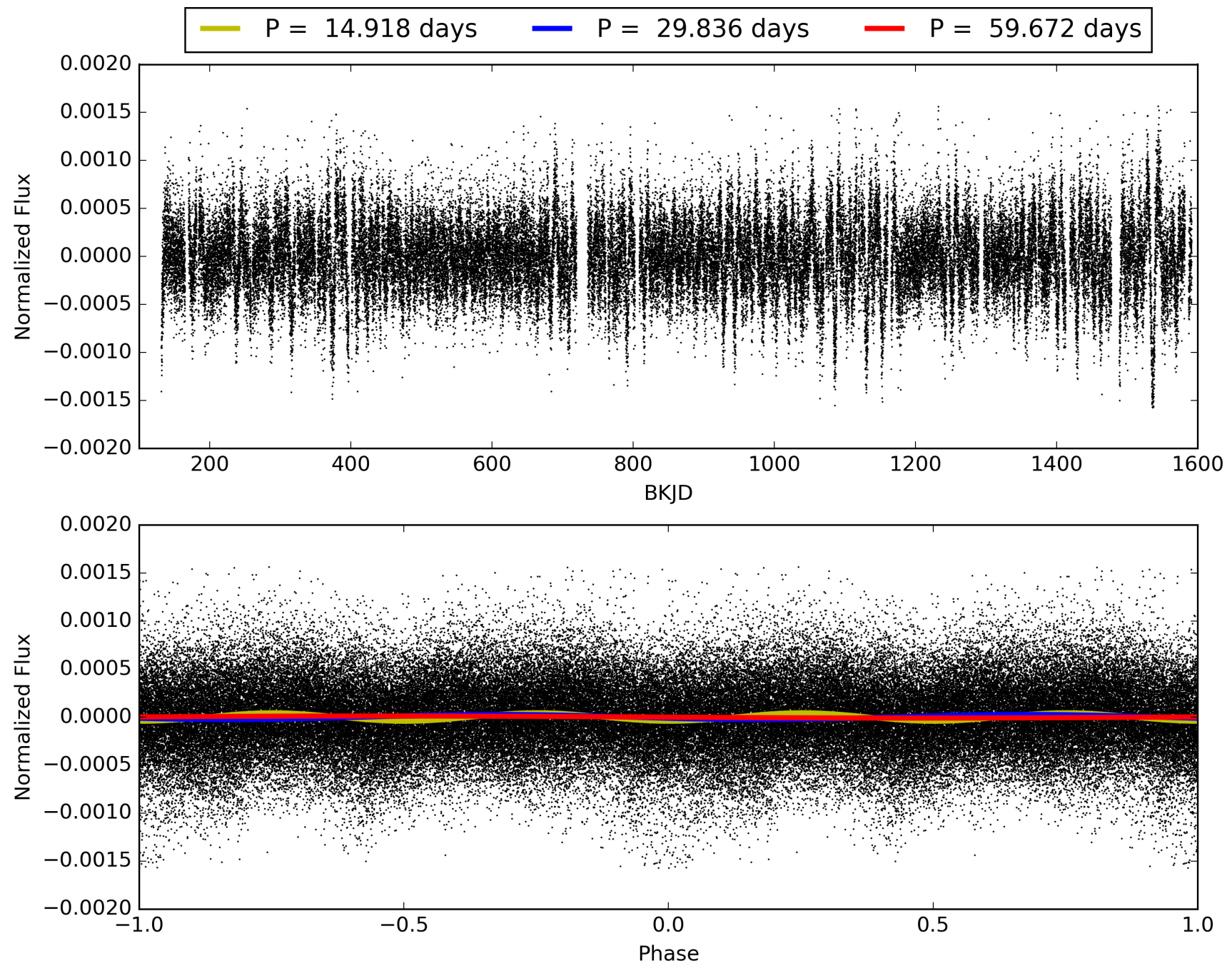
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:47:45 Z

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

TCE 007032001-06, PDC Light Curves

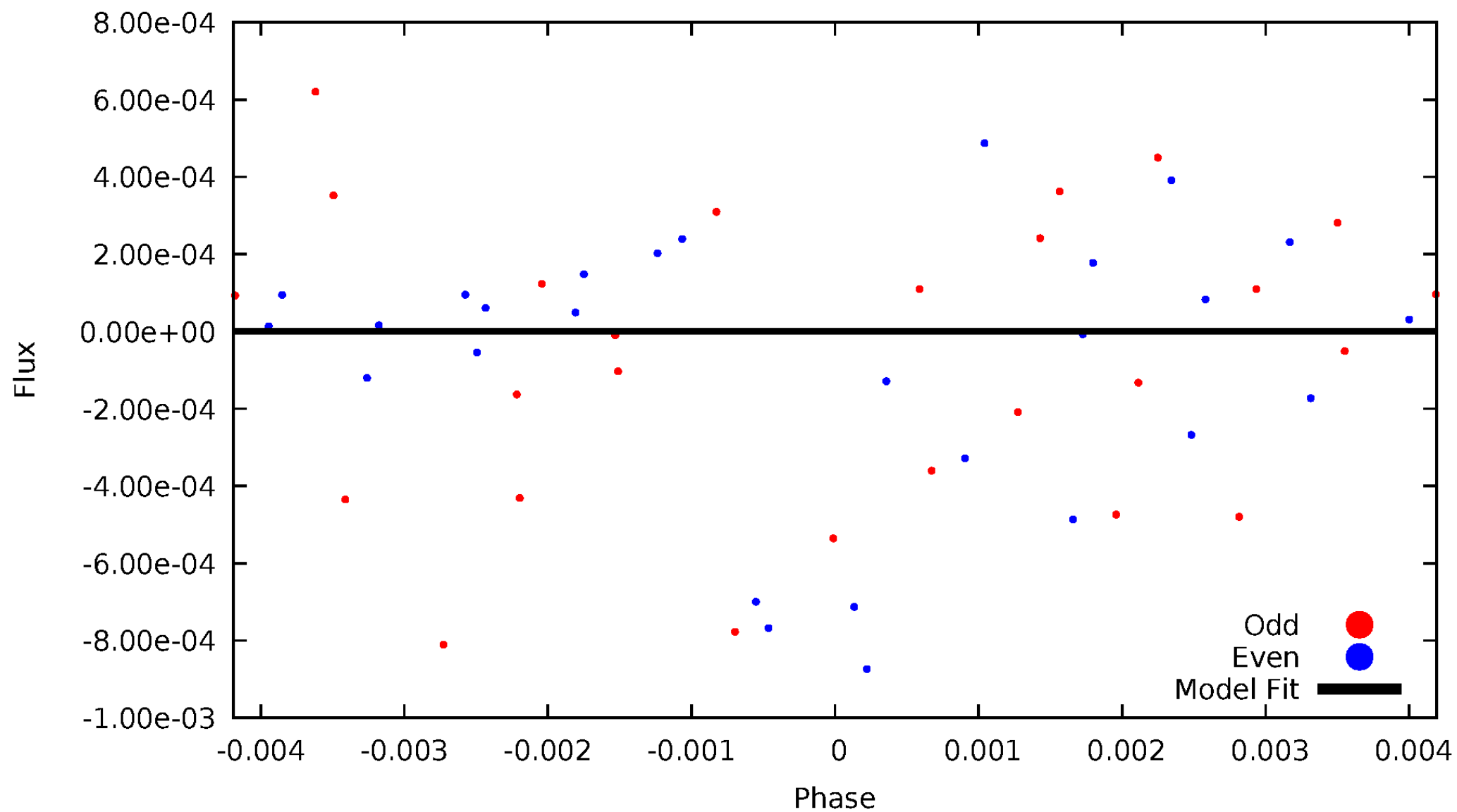


TCE 007032001-06



DV Odd/Even

TCE 007032001-06

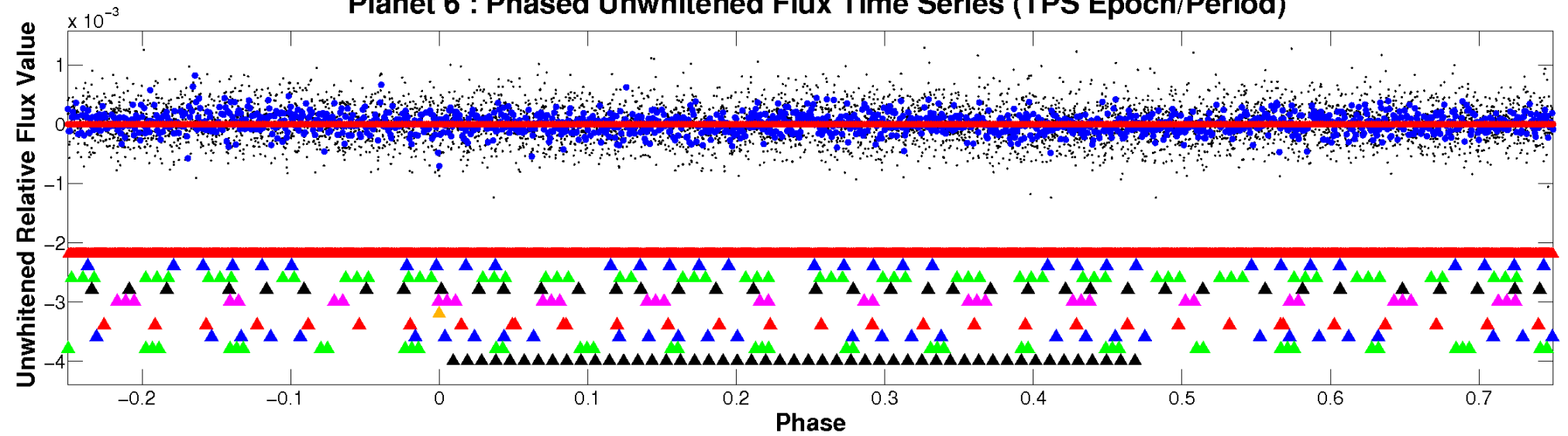


ALT Odd/Even

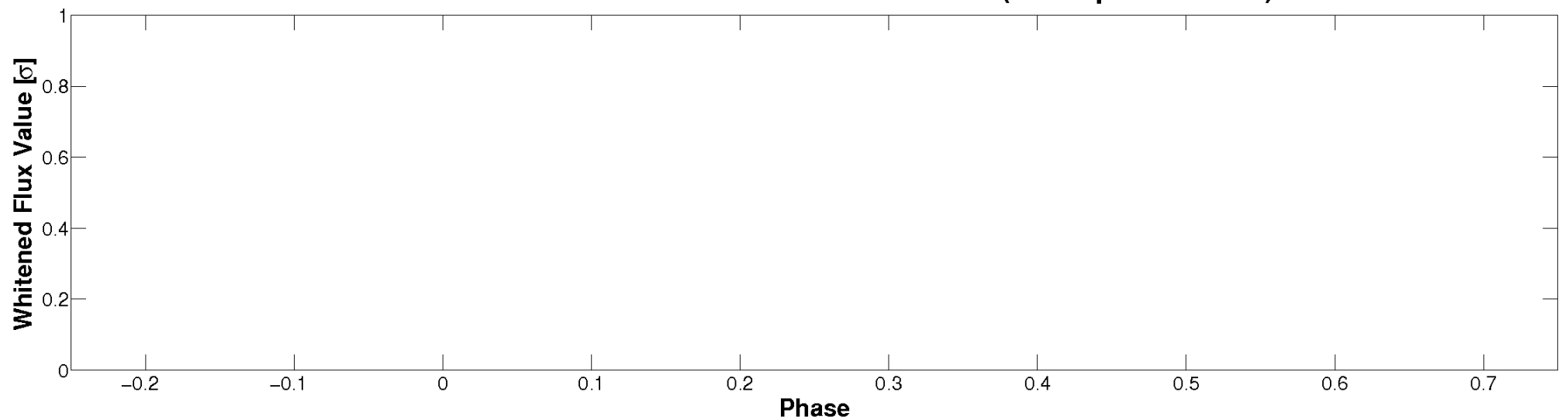
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

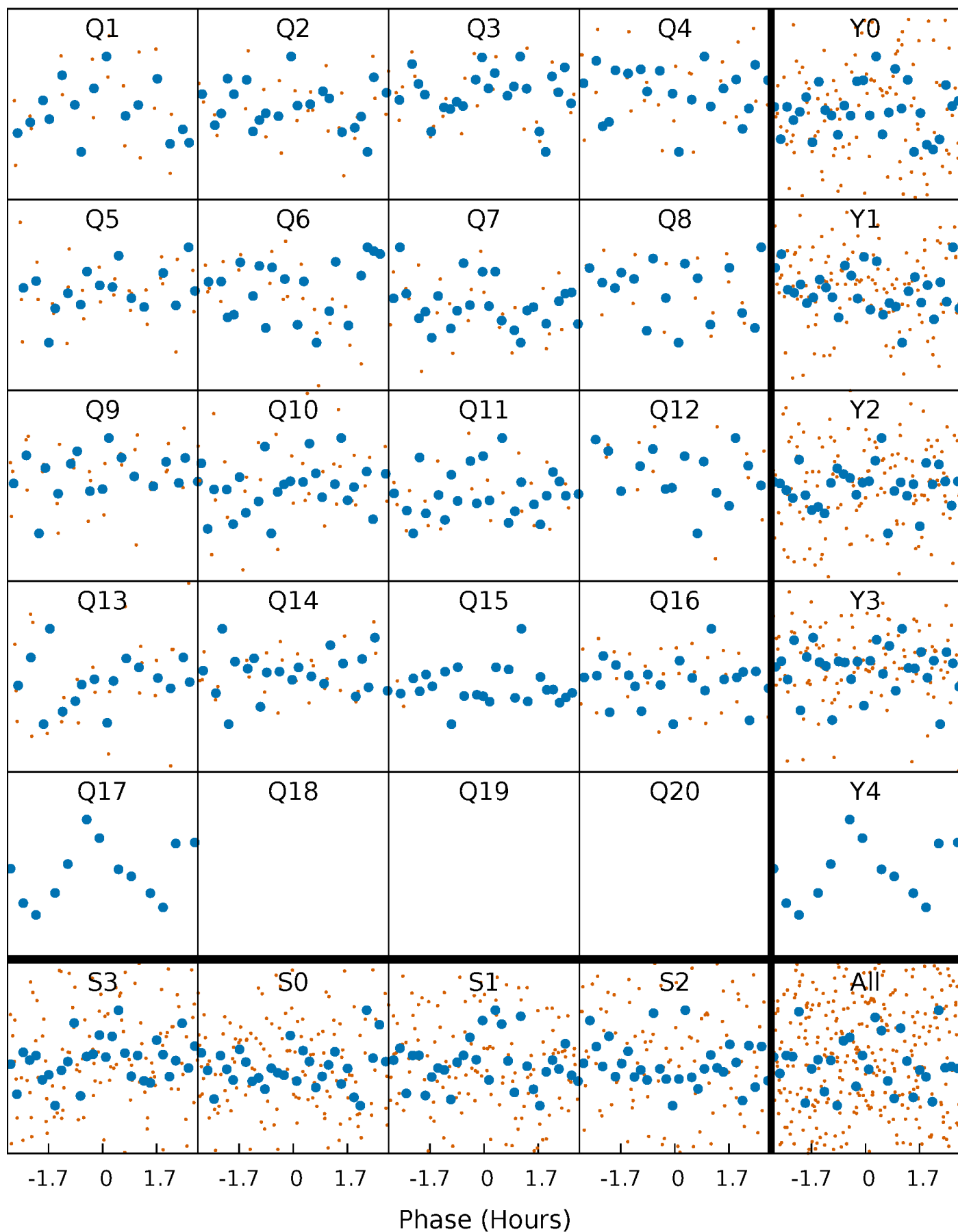


Planet 6 : Phased Whitened Flux Time Series (TPS Epoch/Period)



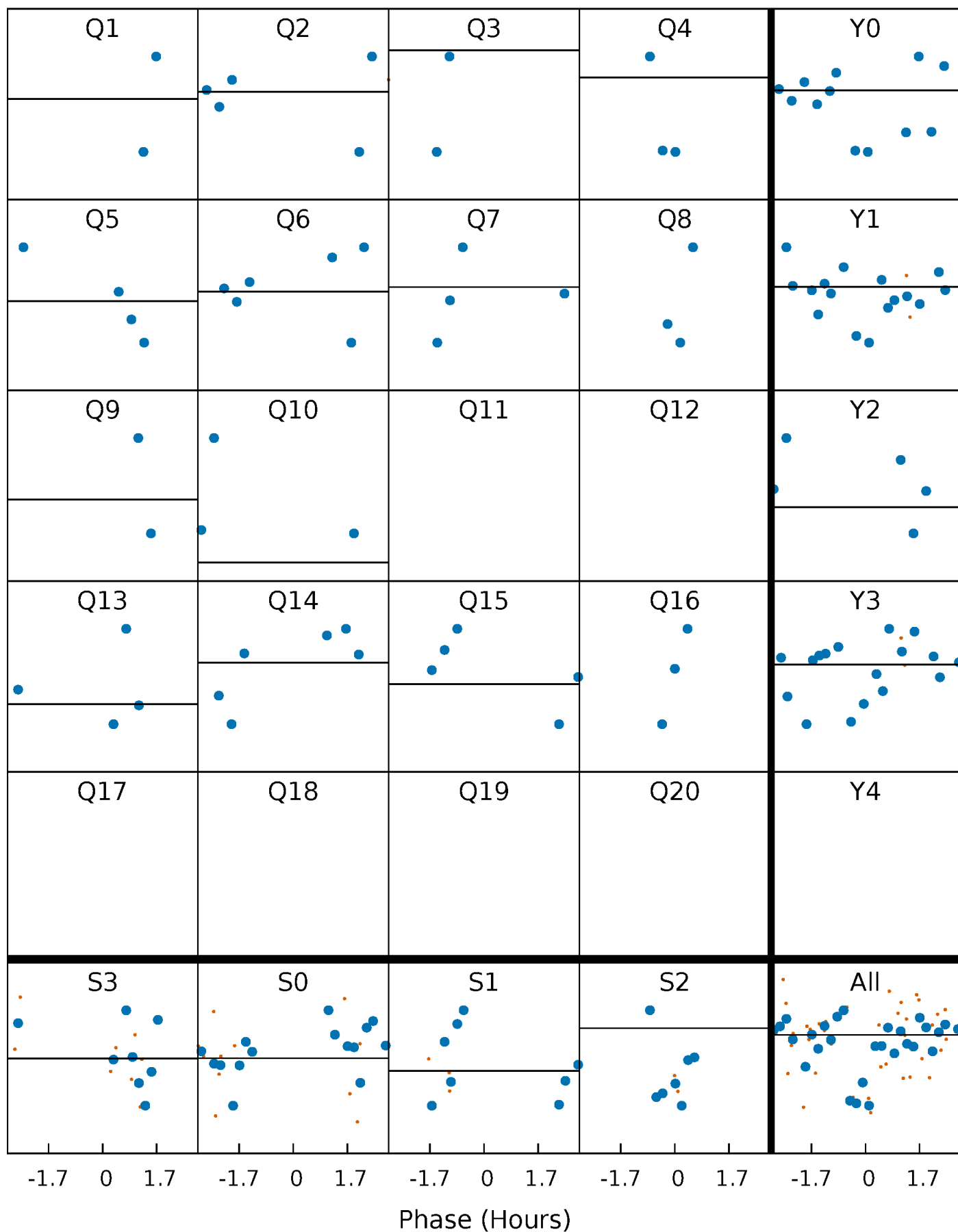
PDC Quarter-Phased Transit Curves

TCE 007032001-06 $P = 29.835786$ Days $T_0 = 133.751619$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007032001-06 P= 29.835786 Days $T_0=133.751619$ (BKJD)

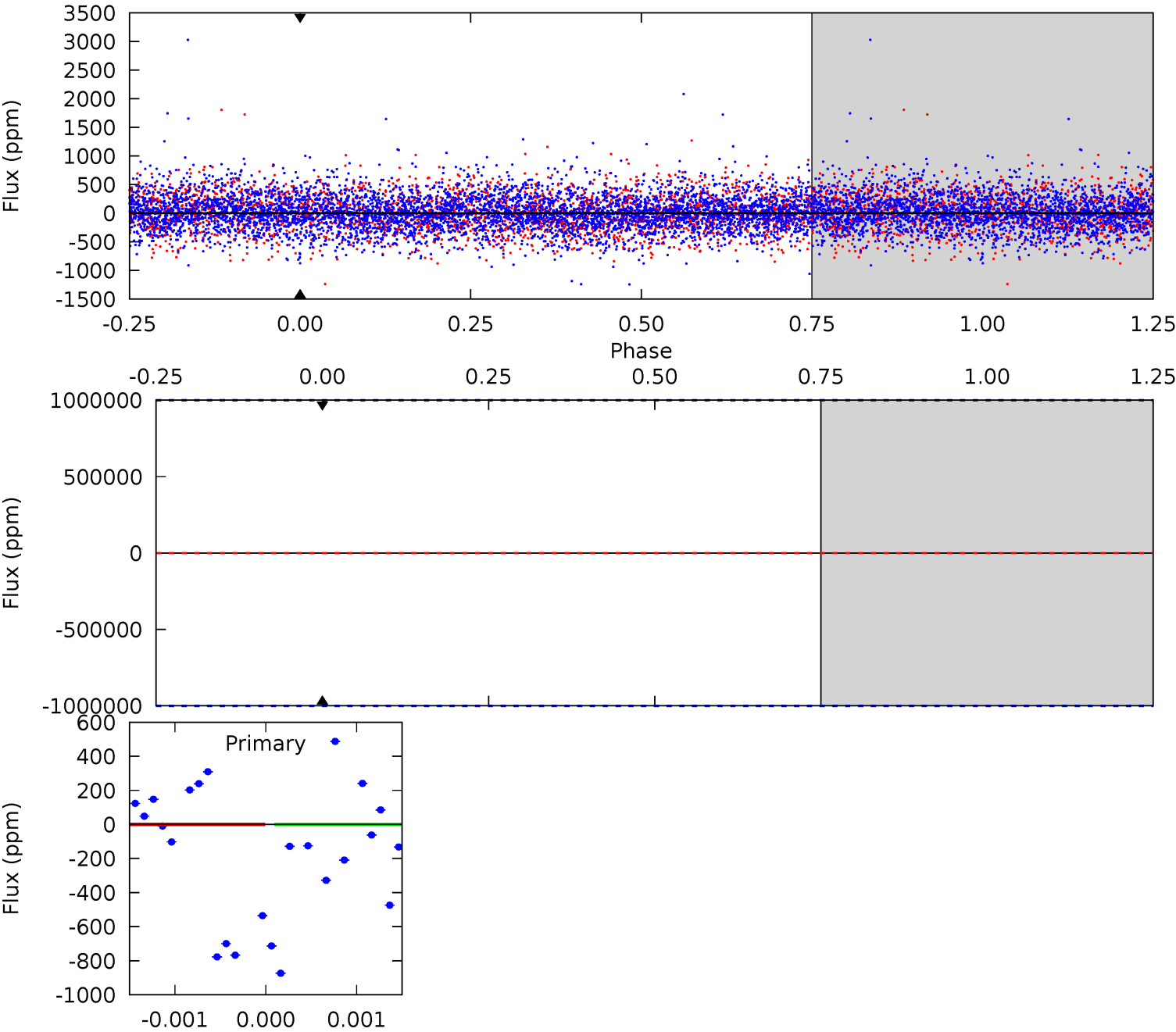


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007032001-06, P = 29.835786 Days, E = 103.915833 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 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$6.94^{+7.27}_{-4.81}$	749^{+41}_{-30}	3559^{+18009}_{-21335}	187^{+82093}_{-59605}
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 $A_{obs} \gg 1.0$

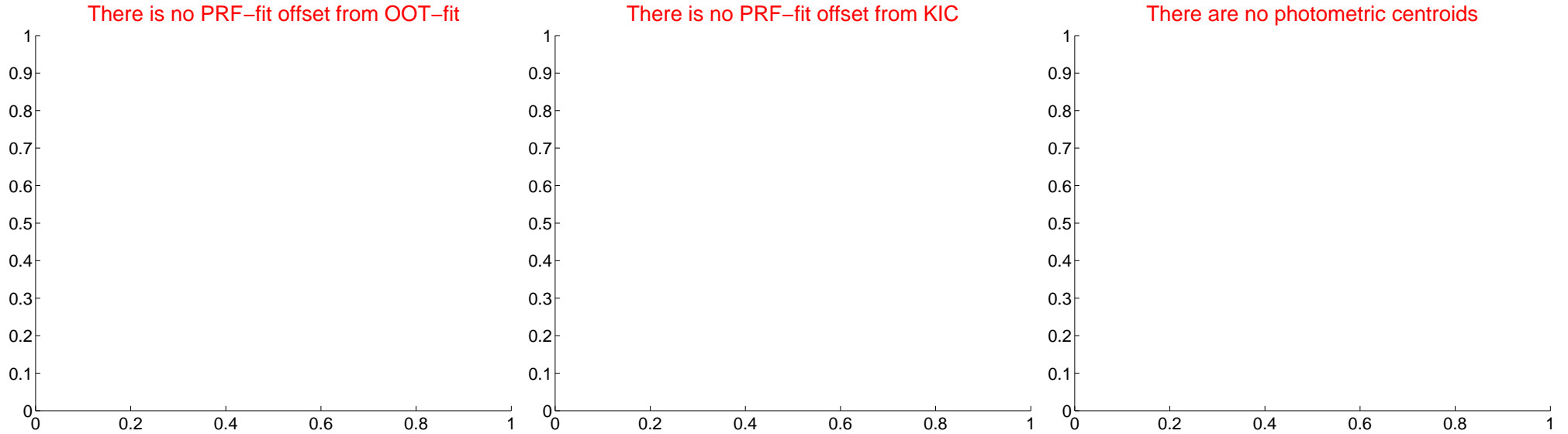
DV Centroid Data

Supplemental centroid analysis for 007032001-06. Kepler magnitude: 14.84. 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.



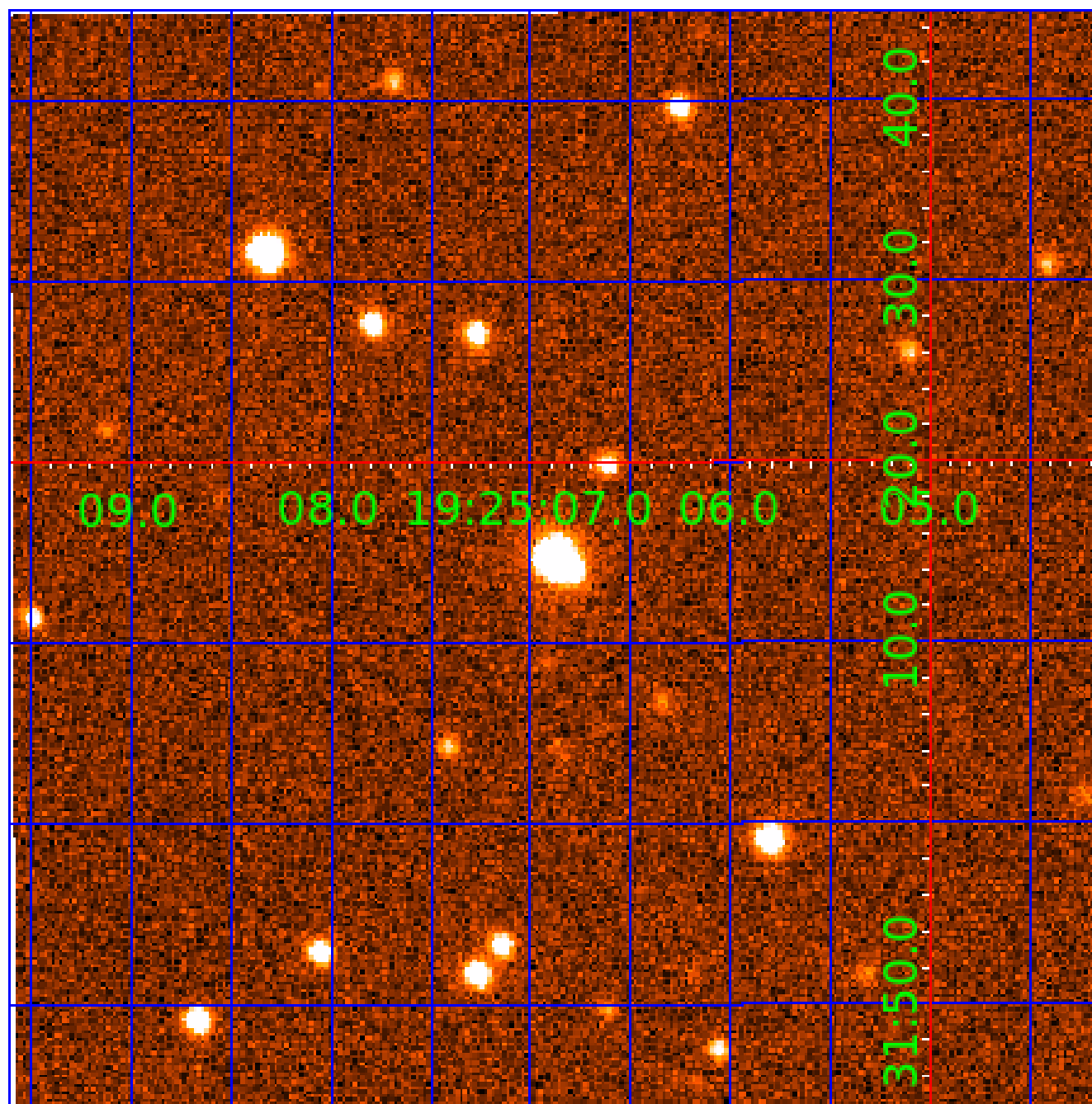
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

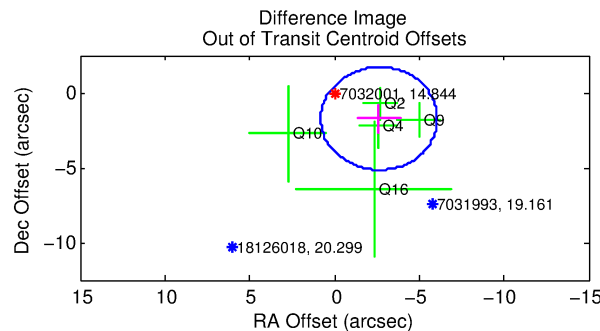
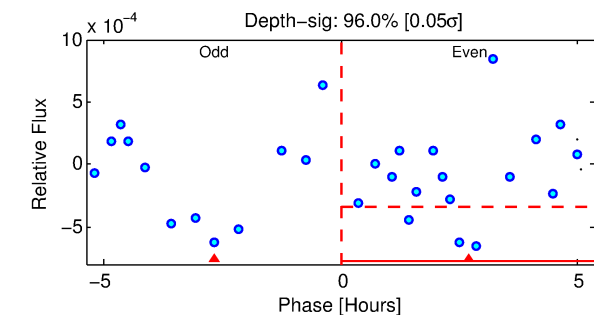
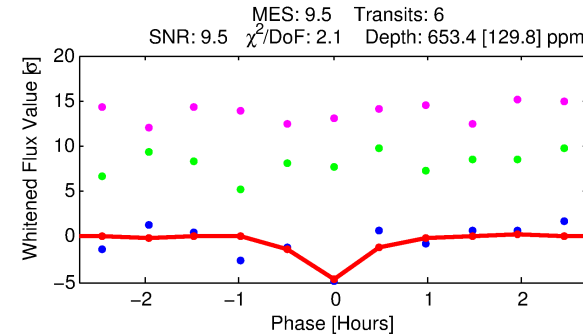
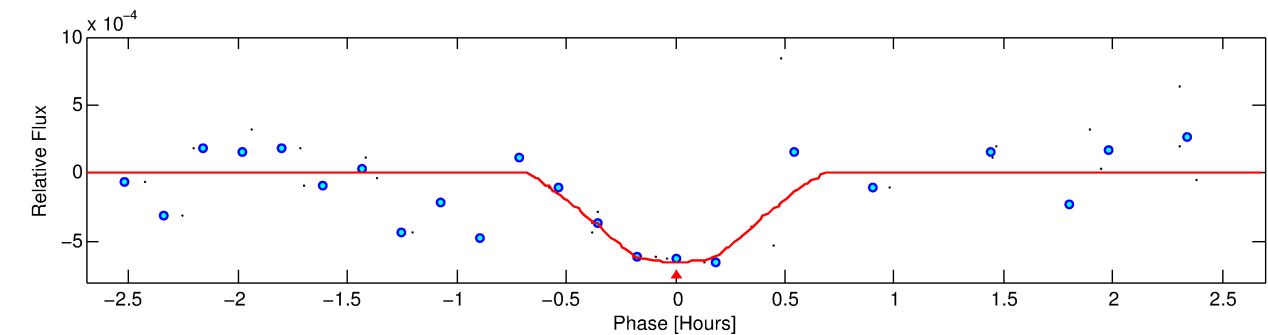
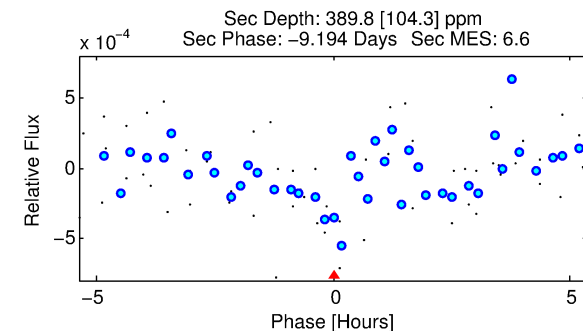
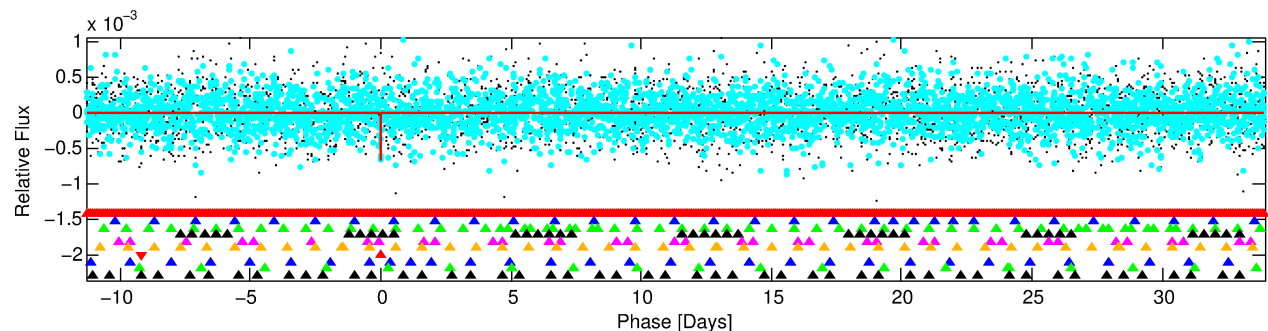
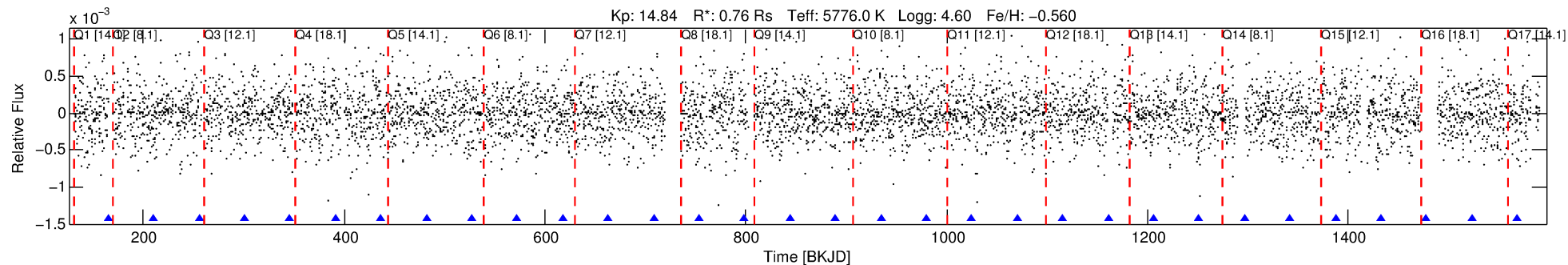
Ephemeris Match Information For 007032001-07

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 7 of 10 Period: 45.266 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



DV Fit Results:

Period = 45.26623 [0.00040] d
Epoch = 165.1108 [0.0075] BKJD
Rp/R* = 0.0236 [0.0448]
a/R* = 393.91 [3498.88]
b = 0.02 [496.37]
Seff = 10.49 [3.31]
Teq = 459 [36] K
Rp = 1.95 [3.73] Re
a = 0.2337 [0.0483] AU
Ag = 3070.65 [11703.99] [0.26σ]
Teff = 5282 [5020] K [0.96σ]

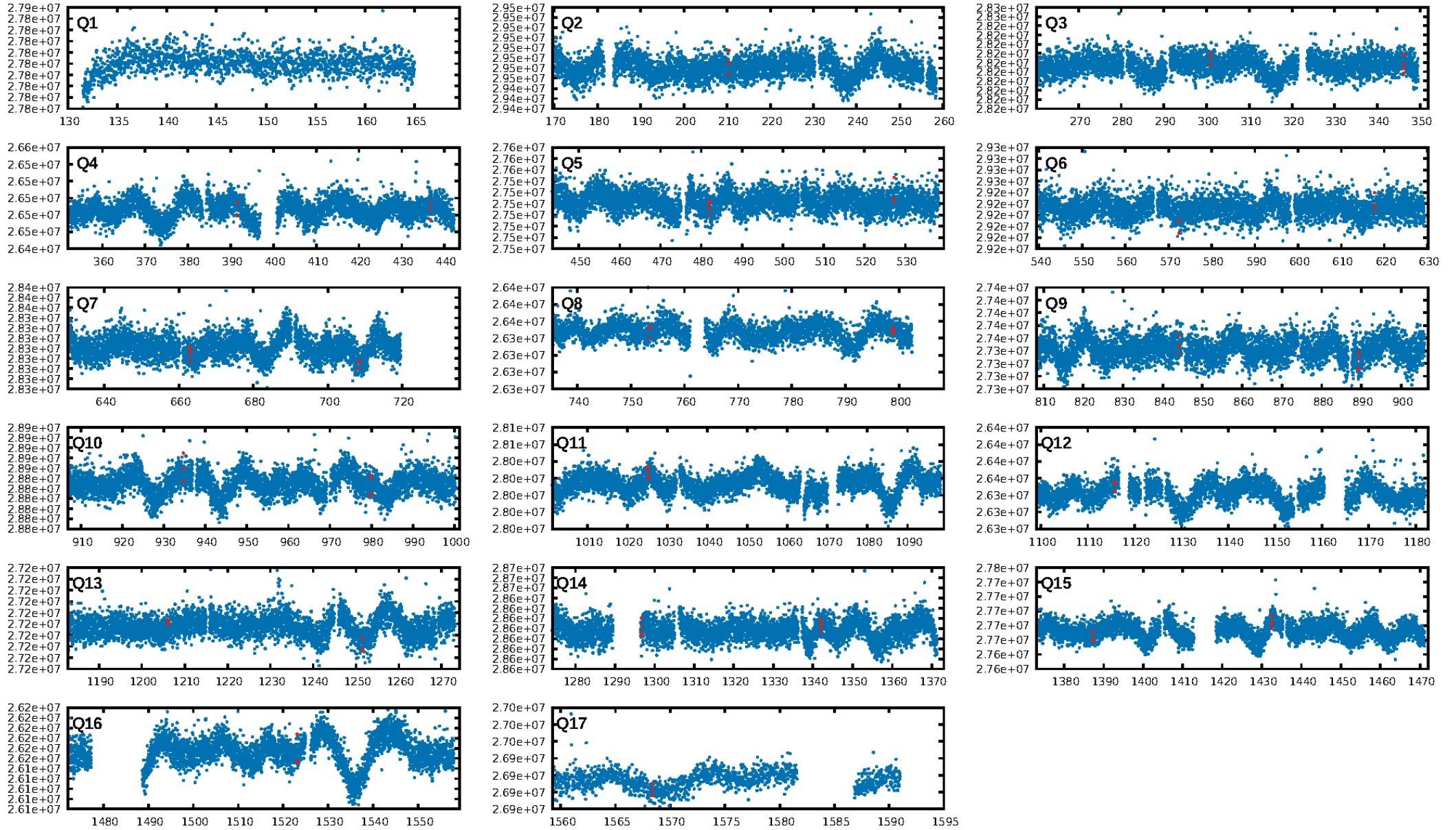
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [69.91σ]
LongPeriod-sig: 100.0% [20.84σ]
ModelChiSquare2-sig: 94.7%
ModelChiSquareGof-sig: 99.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 24.03
Centroid-sig: N/A
Centroid-so: 1.523 arcsec [1.32σ]
OotOffset-rm: 3.141 arcsec [2.75σ]
KicOffset-rm: 3.055 arcsec [2.73σ]
OotOffset-st: 2/0/2/1 [5]
KicOffset-st: 2/0/2/1 [5]
DiffImageQuality-fgm: 0.00 [0/5]
DiffImageOverlap-fno: 0.00 [0/16]

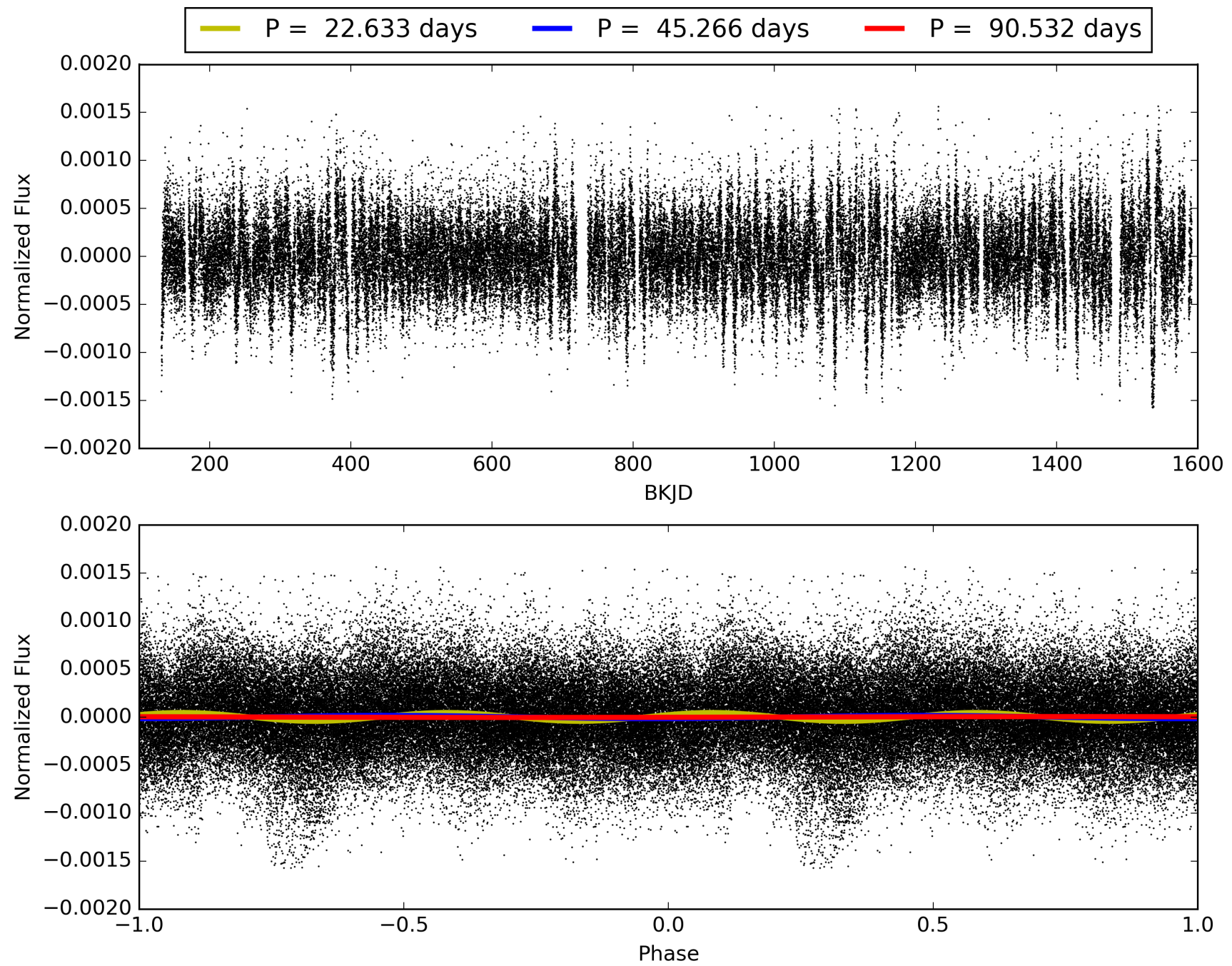
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:47:48 Z

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

TCE 007032001-07, PDC Light Curves

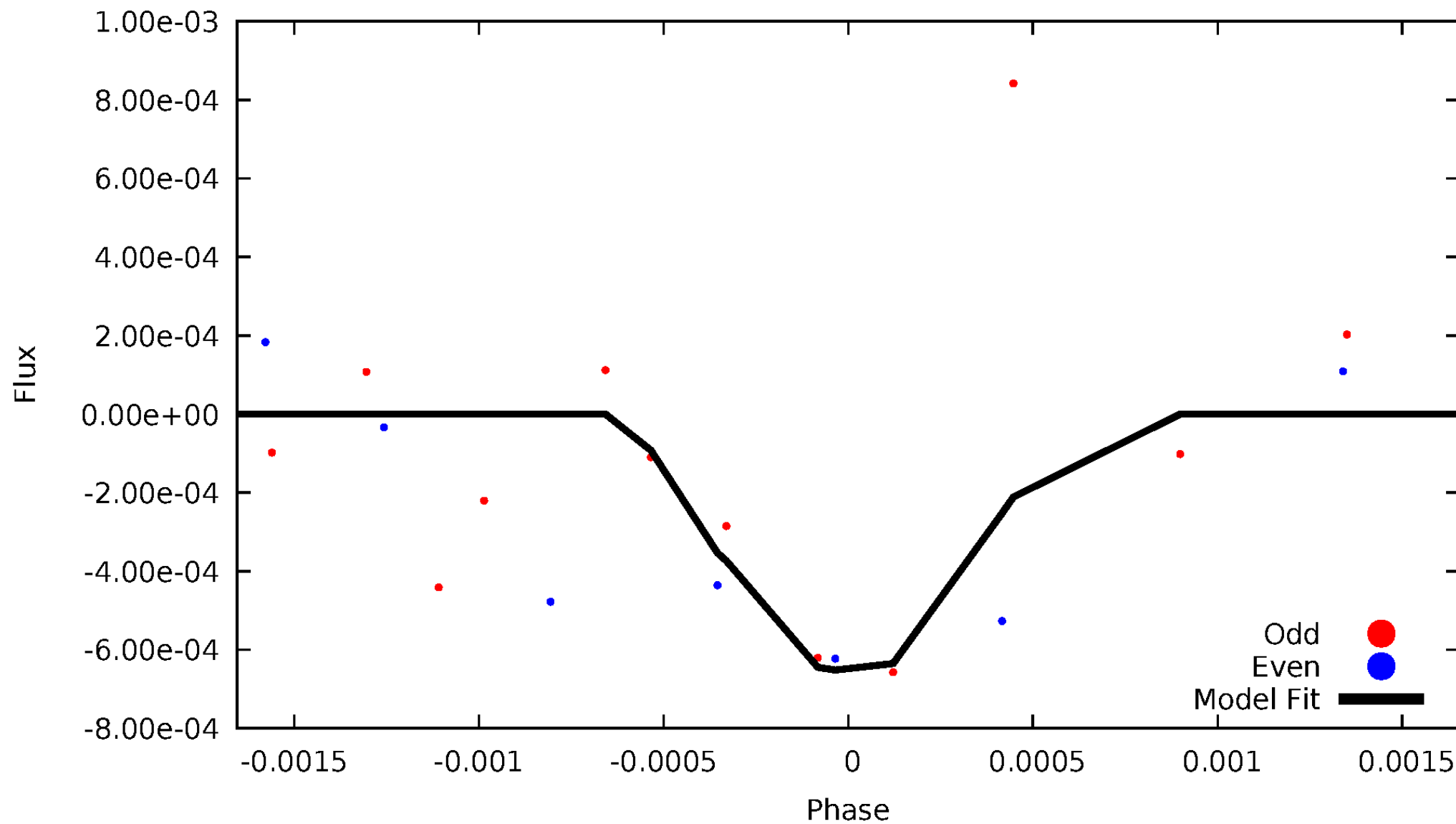


TCE 007032001-07



DV Odd/Even

TCE 007032001-07

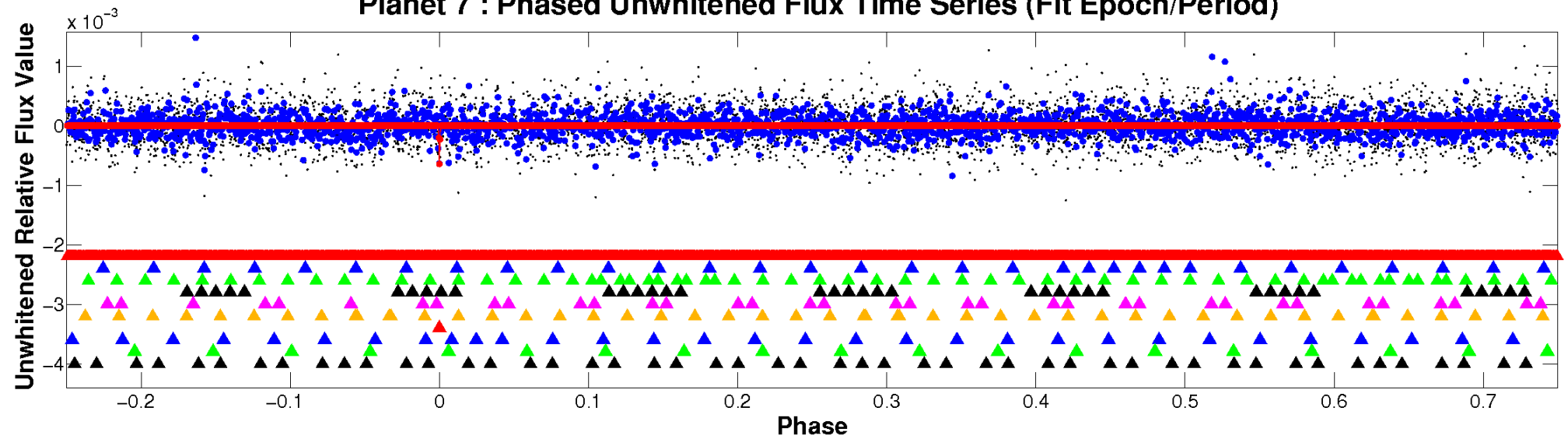


ALT Odd/Even

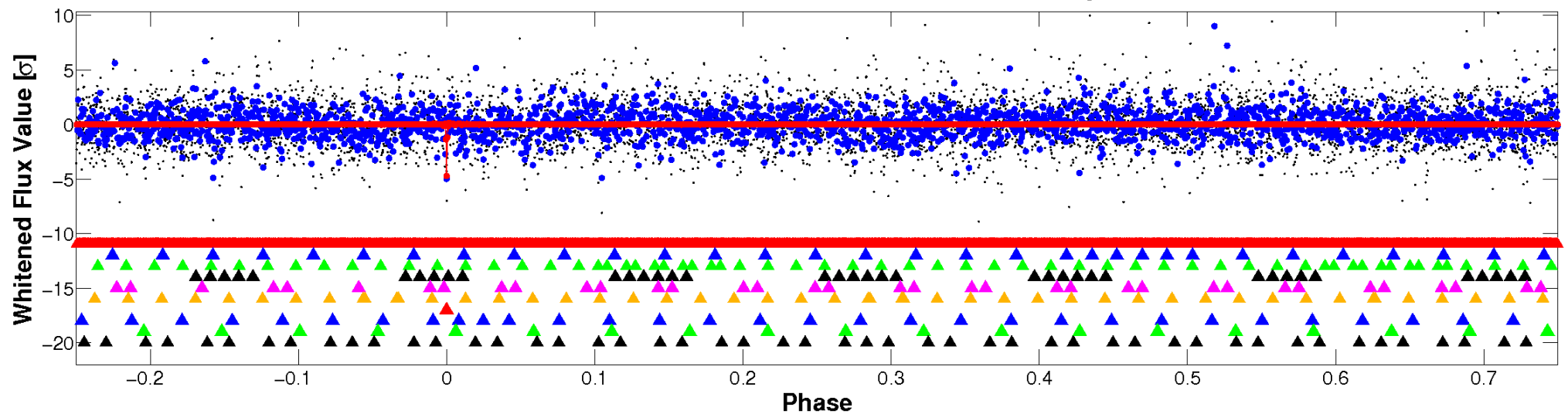
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

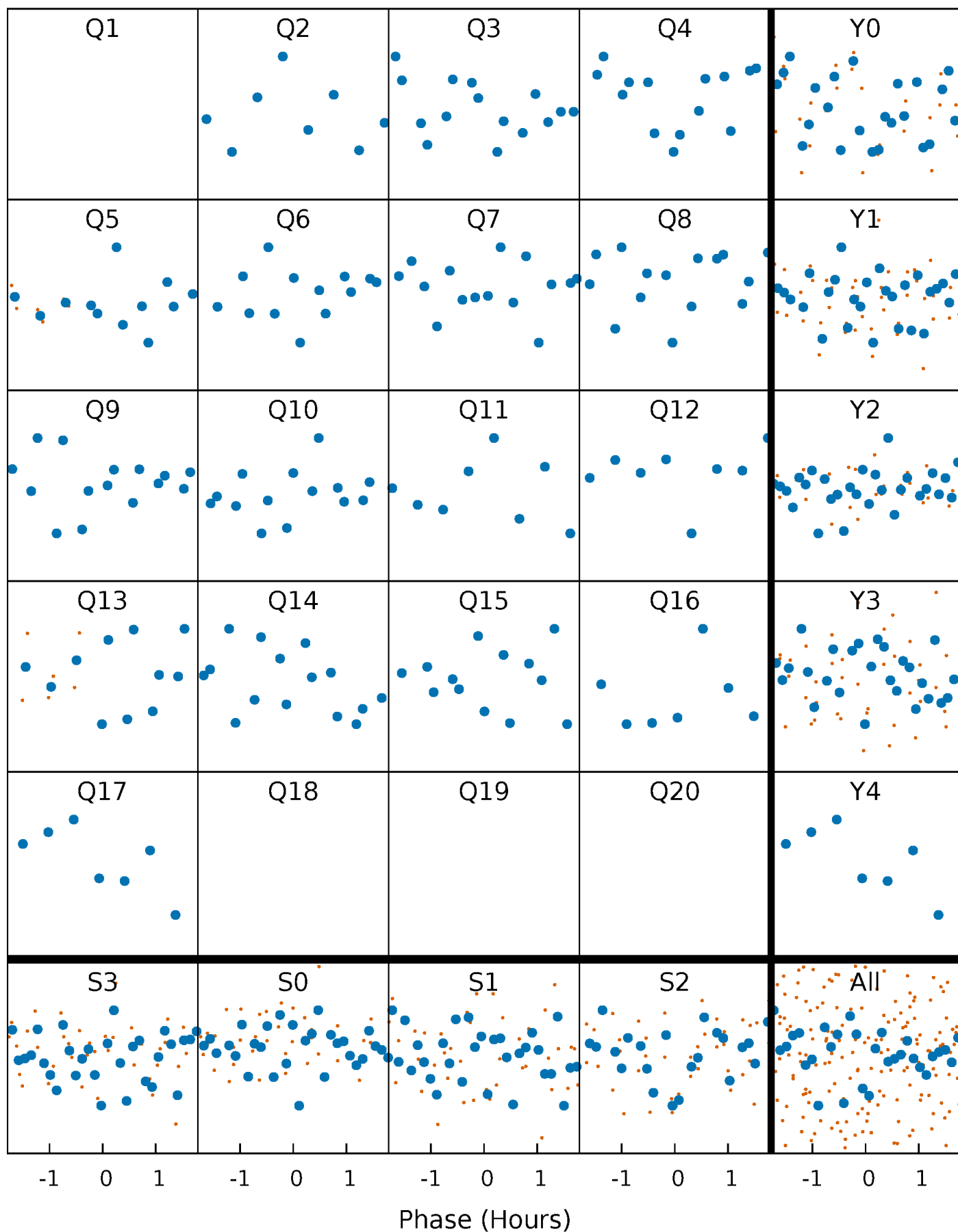


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



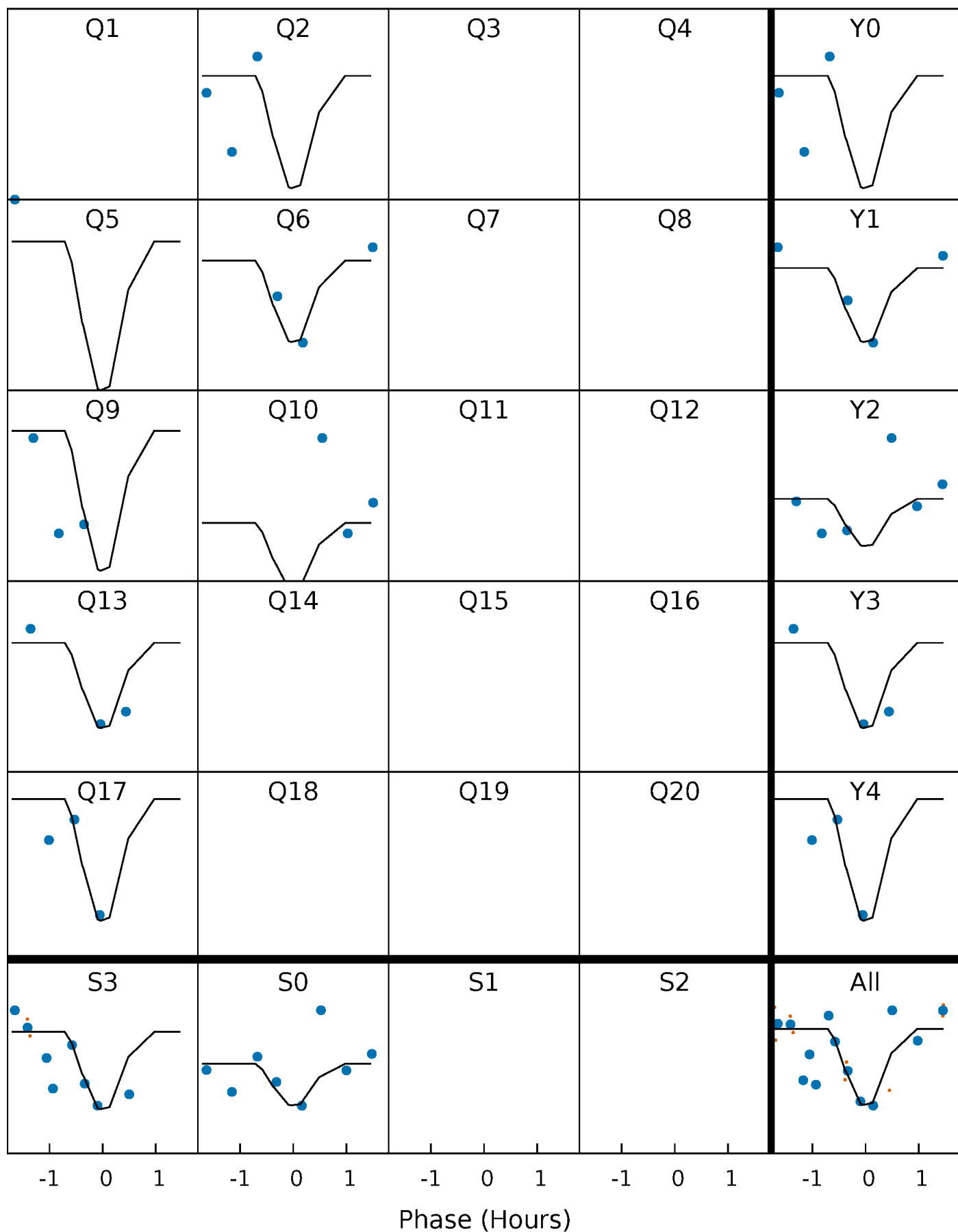
PDC Quarter-Phased Transit Curves

TCE 007032001-07 $P = 45.266228$ Days $T_0 = 165.110759$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007032001-07 P= 45.266228 Days $T_0=165.110759$ (BKJD)

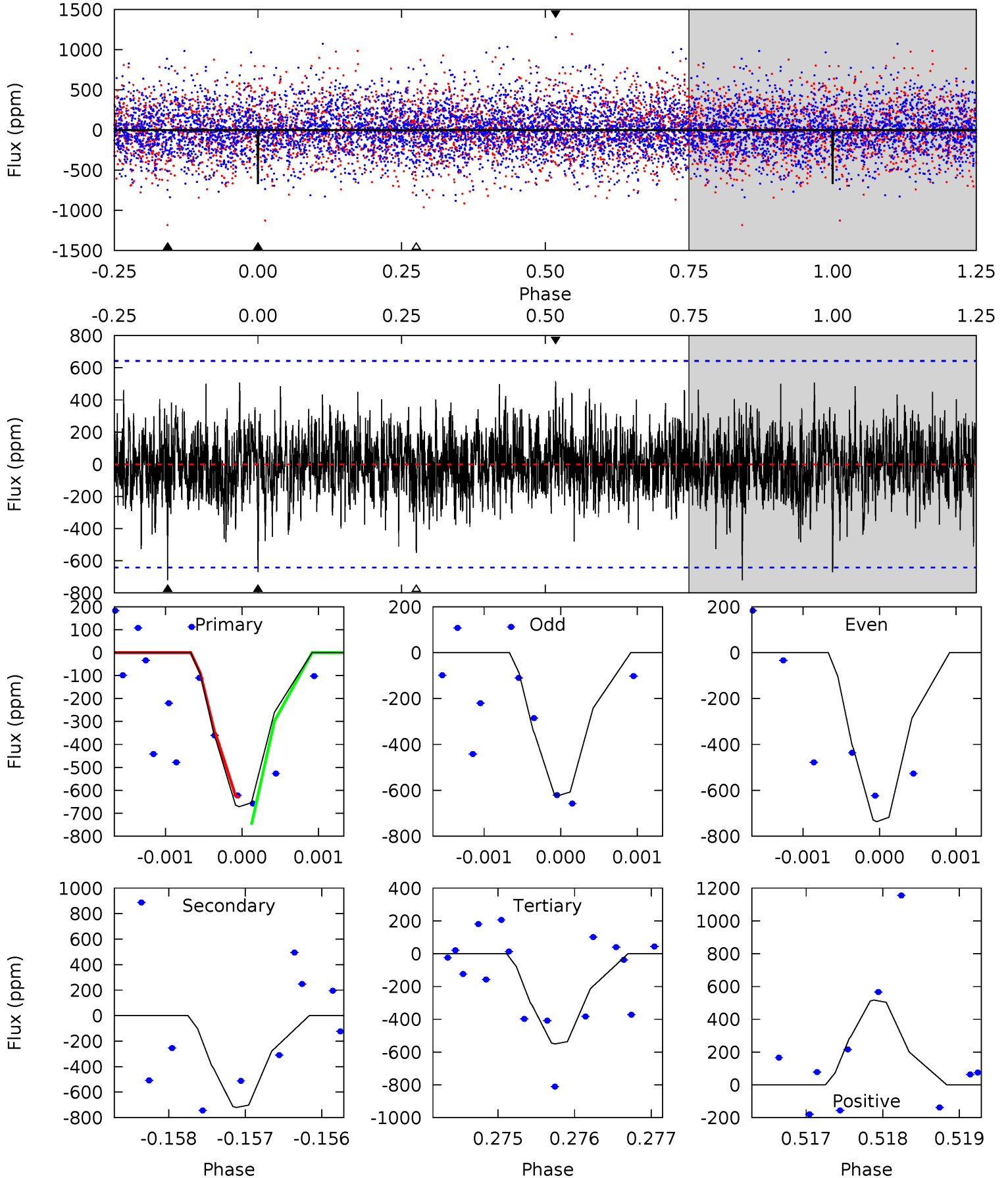


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007032001-07, $P = 45.266228$ Days, $E = 119.844531$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.70	6.12	4.68	4.39	5.45	3.30	1.28	1.03	1.31	1.44	1.73	0.48	1.05	0.42	0.48



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-720 ± 118	$3.53^{+3.14}_{-2.47}$	653^{+34}_{-25}	4800^{+4055}_{-1037}	1651^{+17142}_{-1181}
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

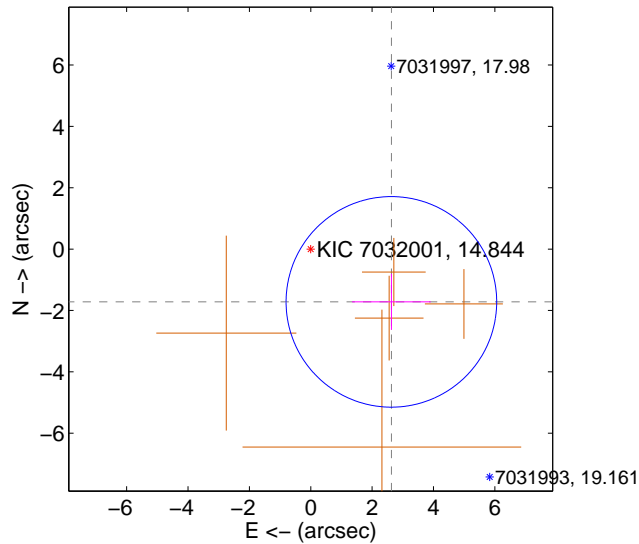
Supplemental centroid analysis for 007032001-07. Kepler magnitude: 14.84. Transit SNR 9.54

There are 0 quarters with good PRF difference image offsets

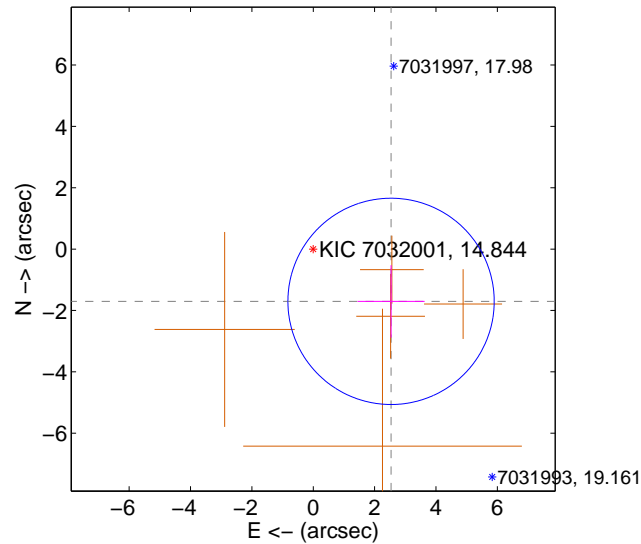
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.141 ± 1.144	2.75	-2.628 ± 1.283	-1.720 ± 0.914
PRF-fit source offset from KIC position	3.055 ± 1.121	2.73	-2.536 ± 1.094	-1.704 ± 1.178
photometric centroid source offset	1.52 ± 1.15	1.32	0.67 ± 1.16	1.37 ± 1.15

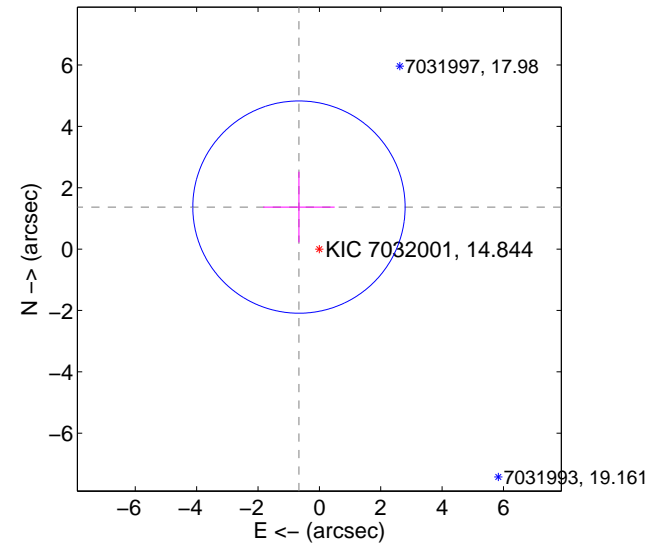
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

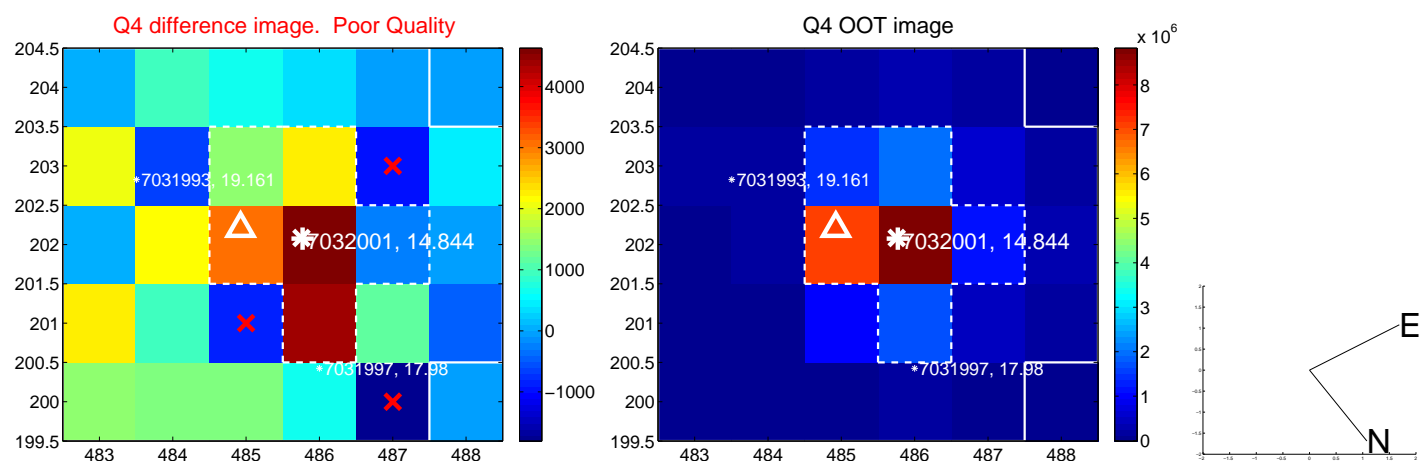
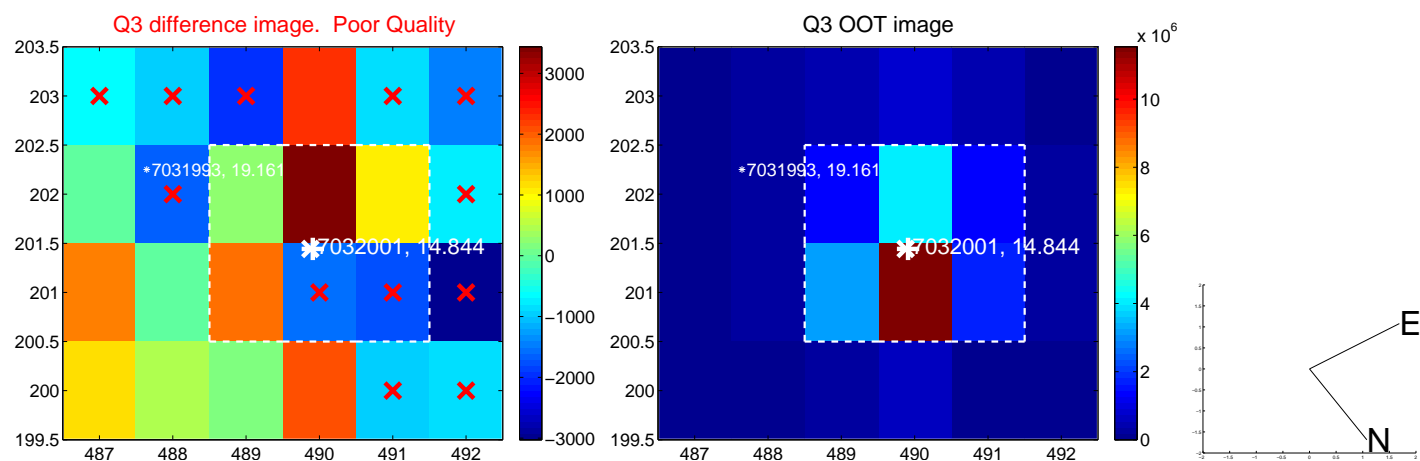
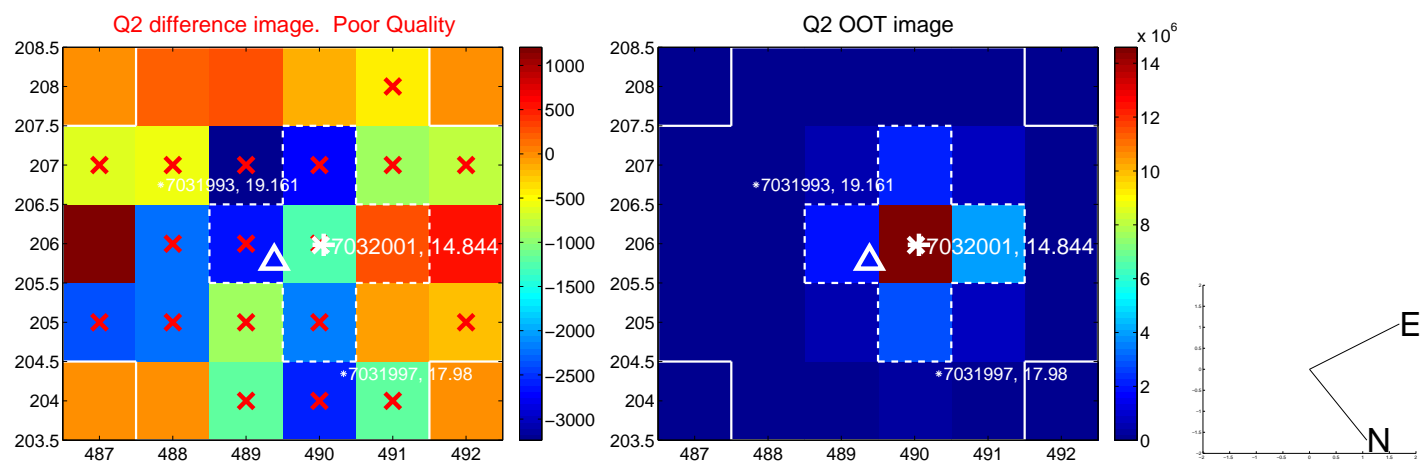
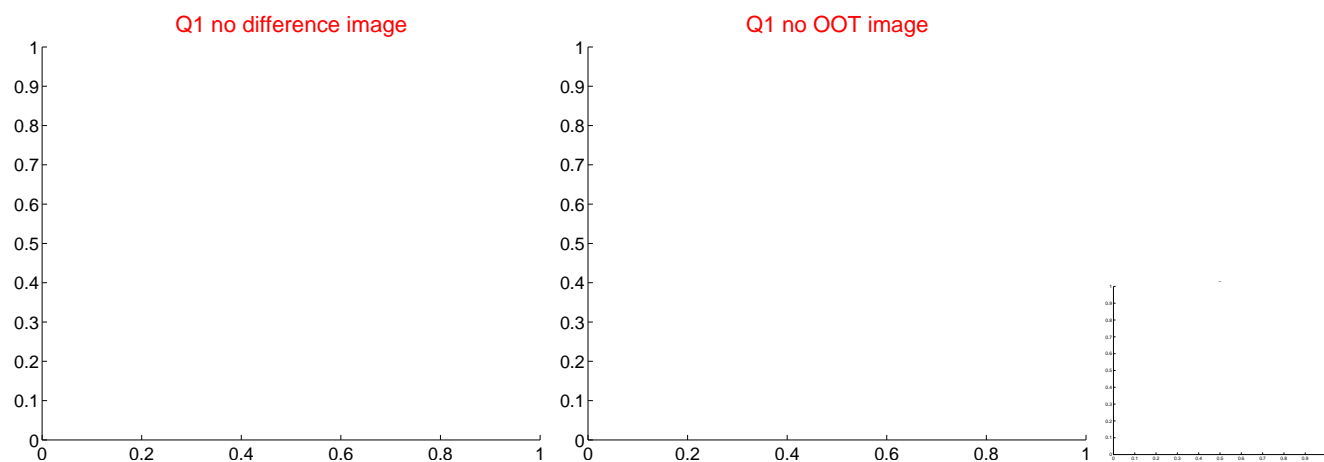


offset from photometric centroids

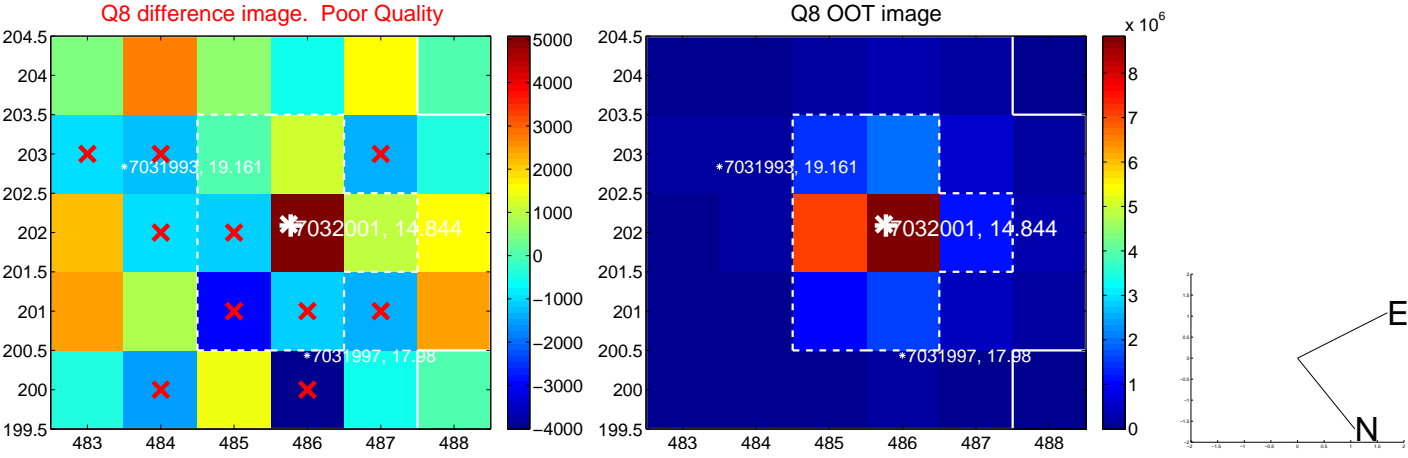
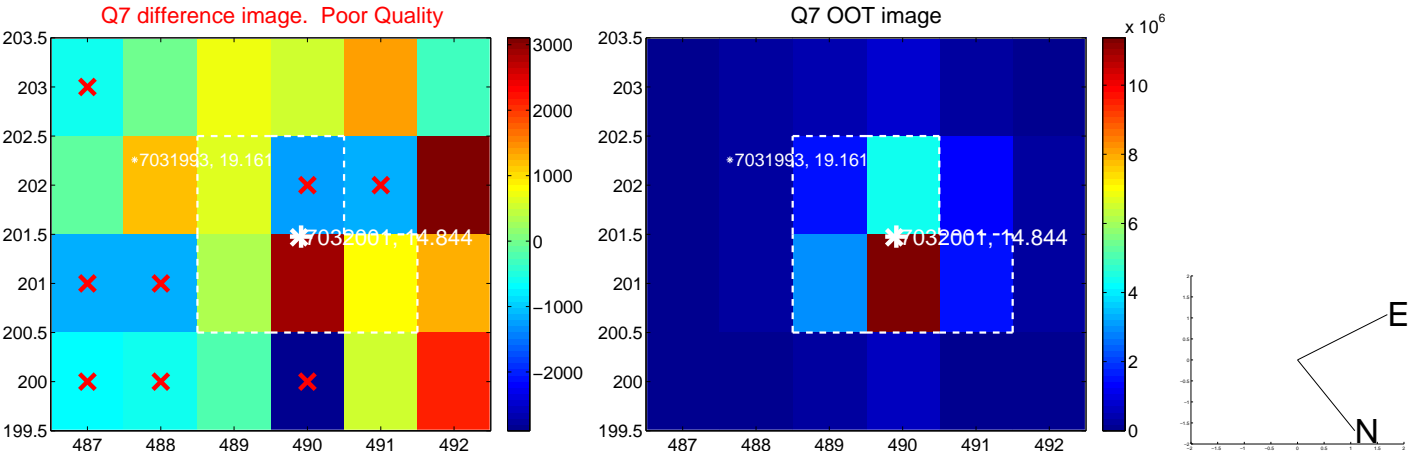
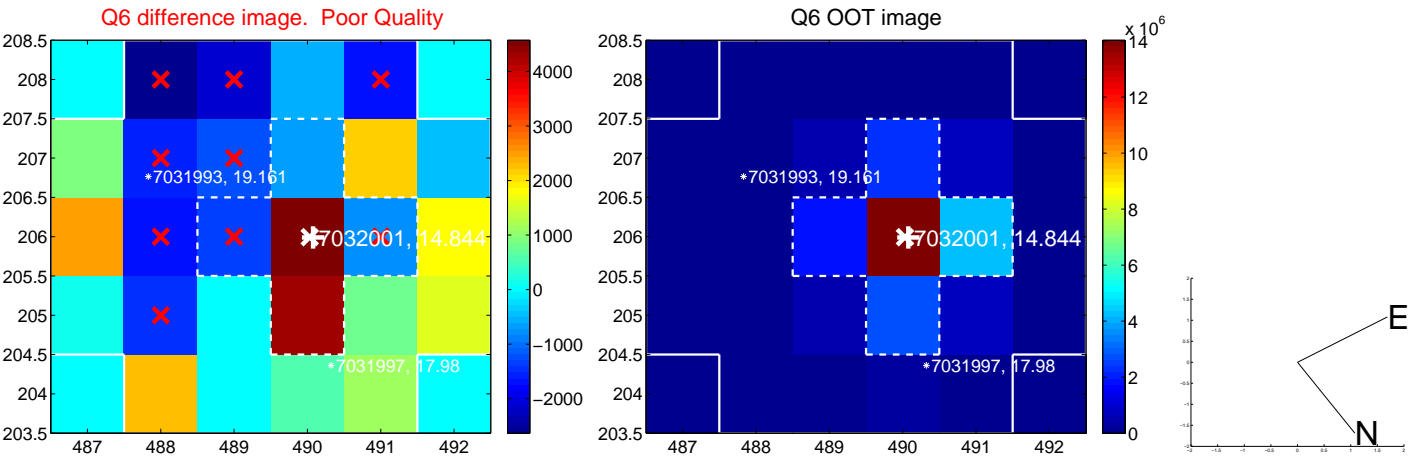
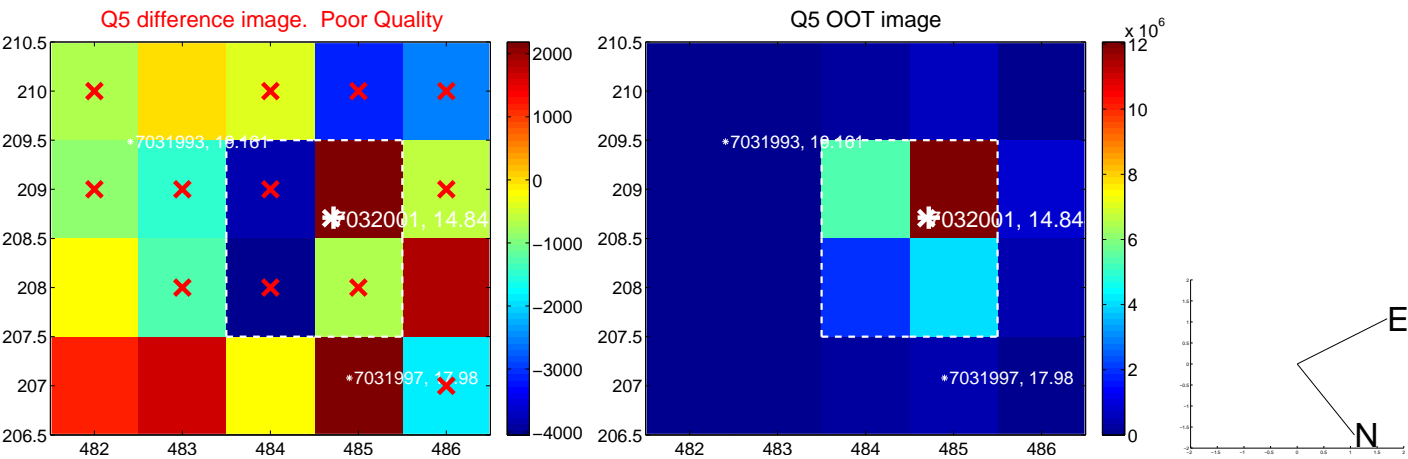


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

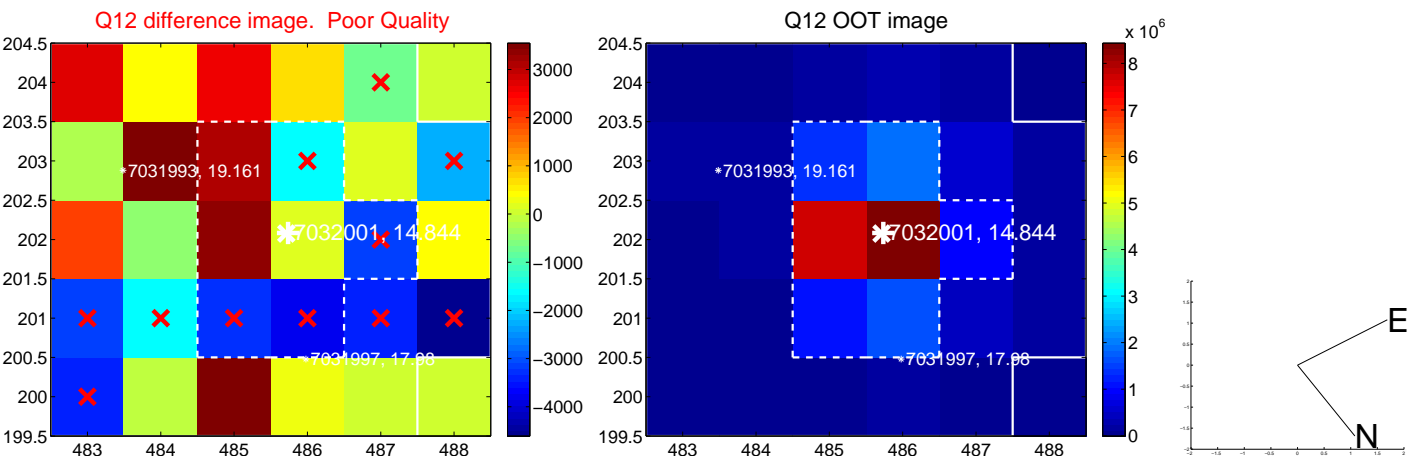
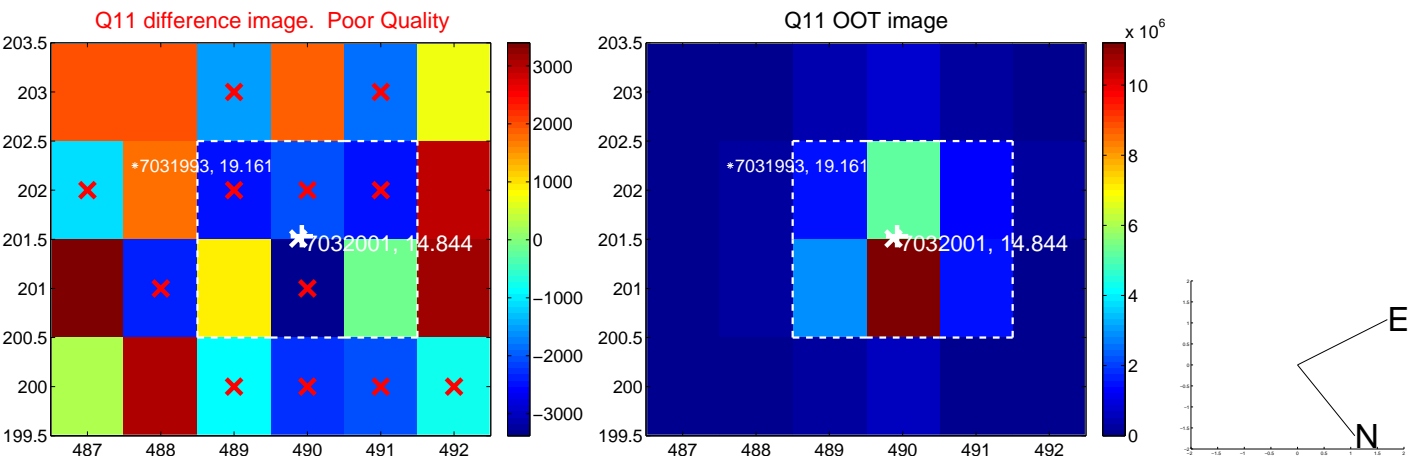
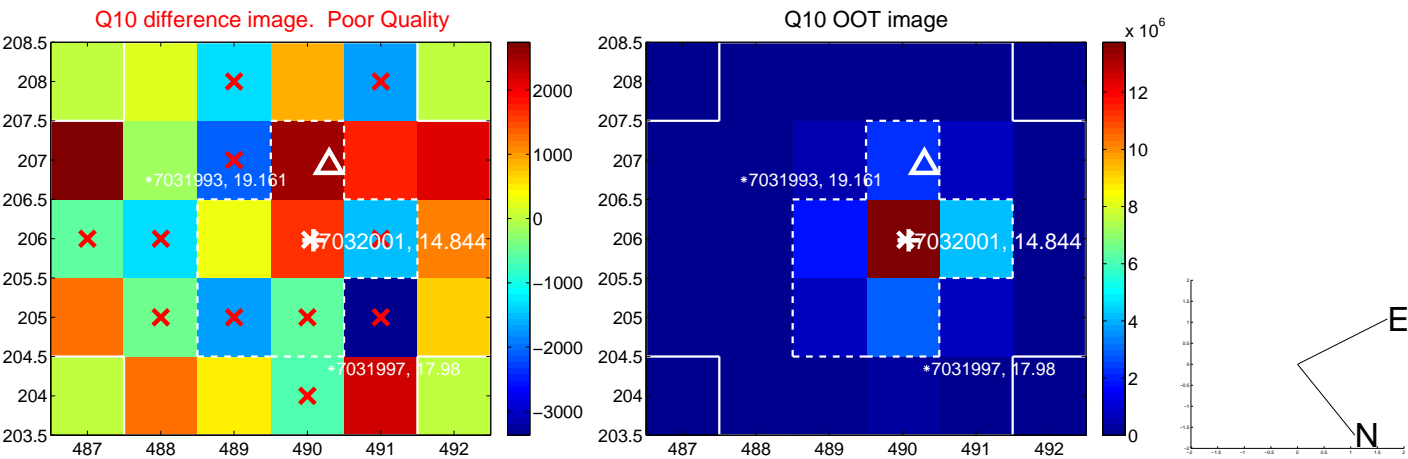
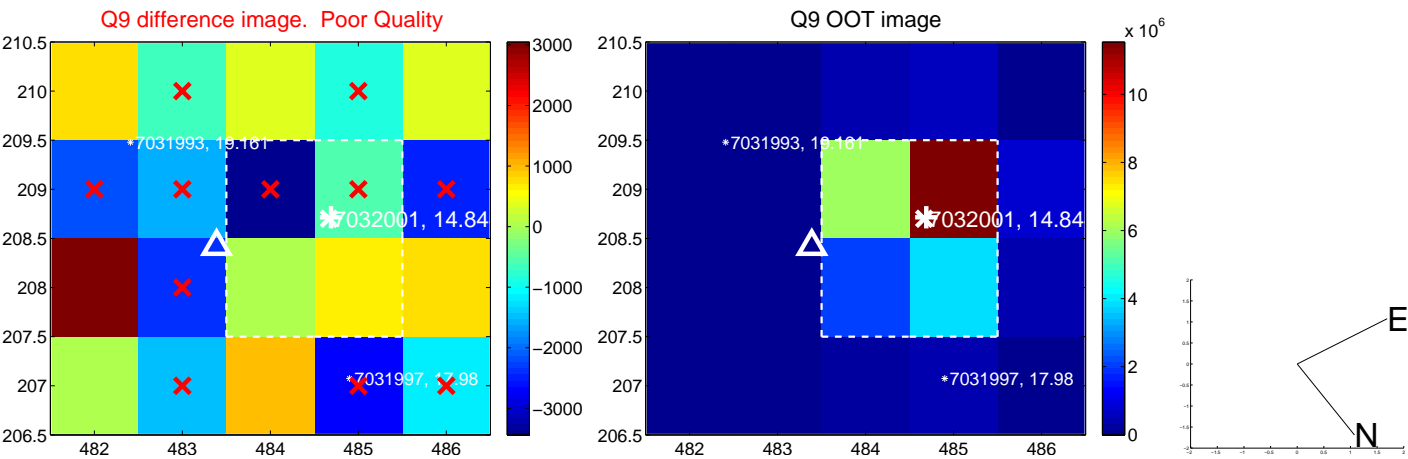
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



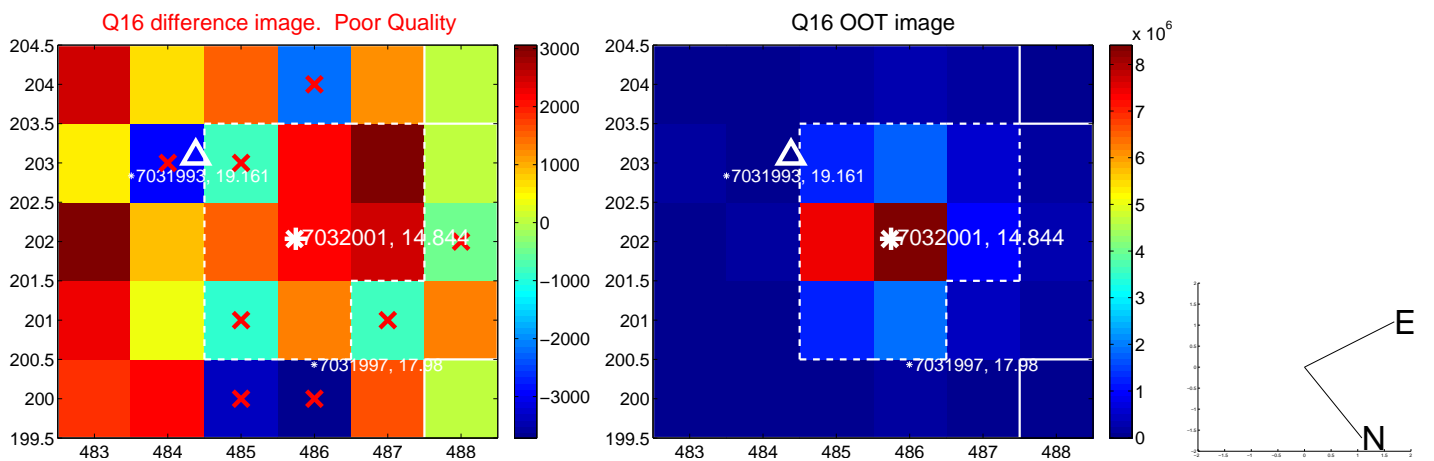
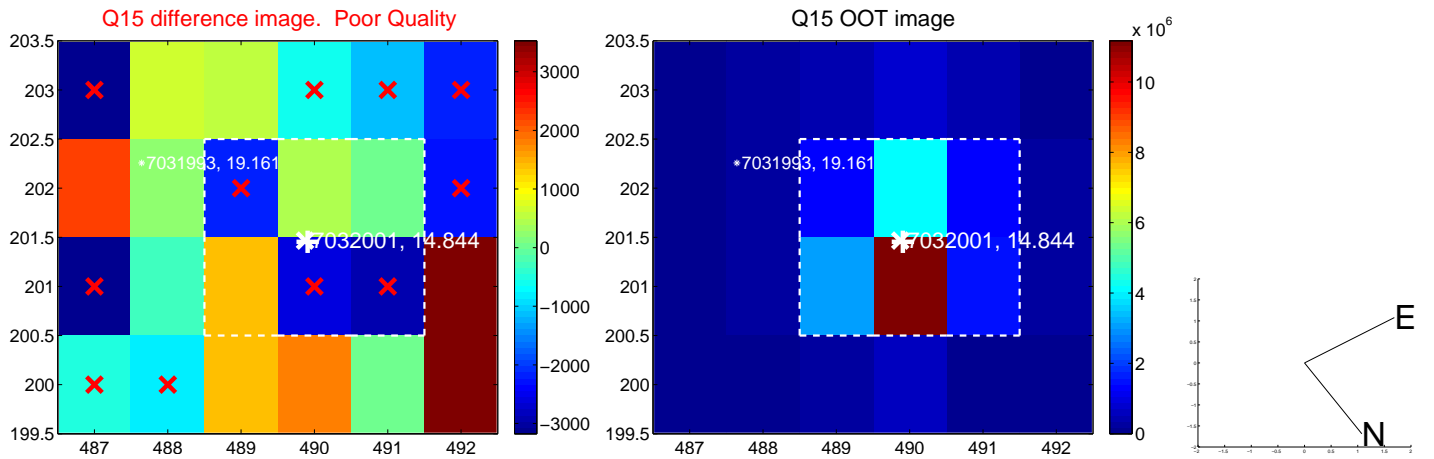
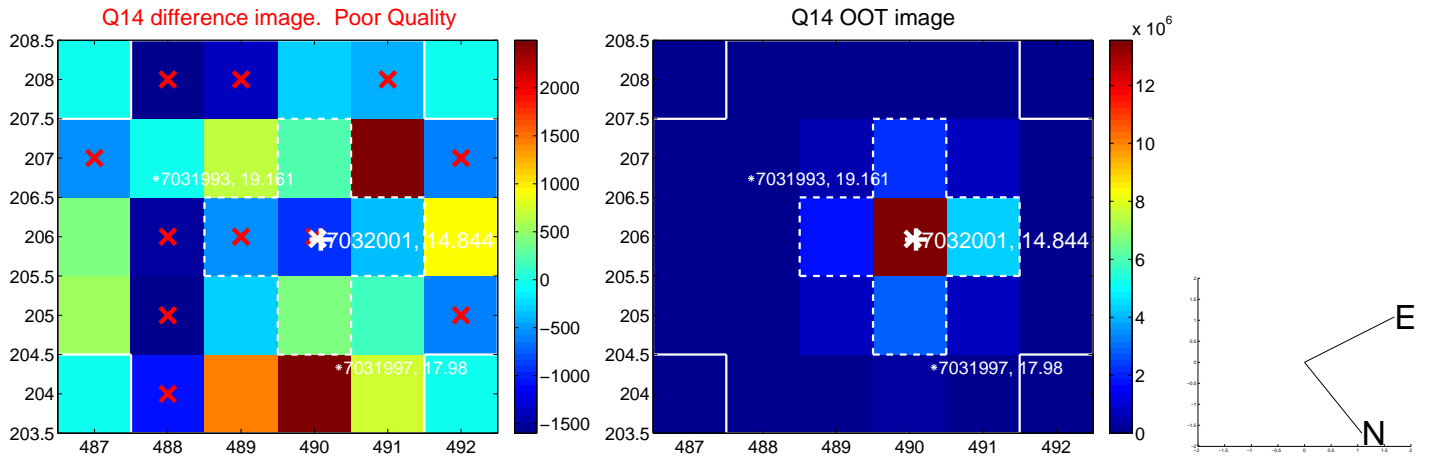
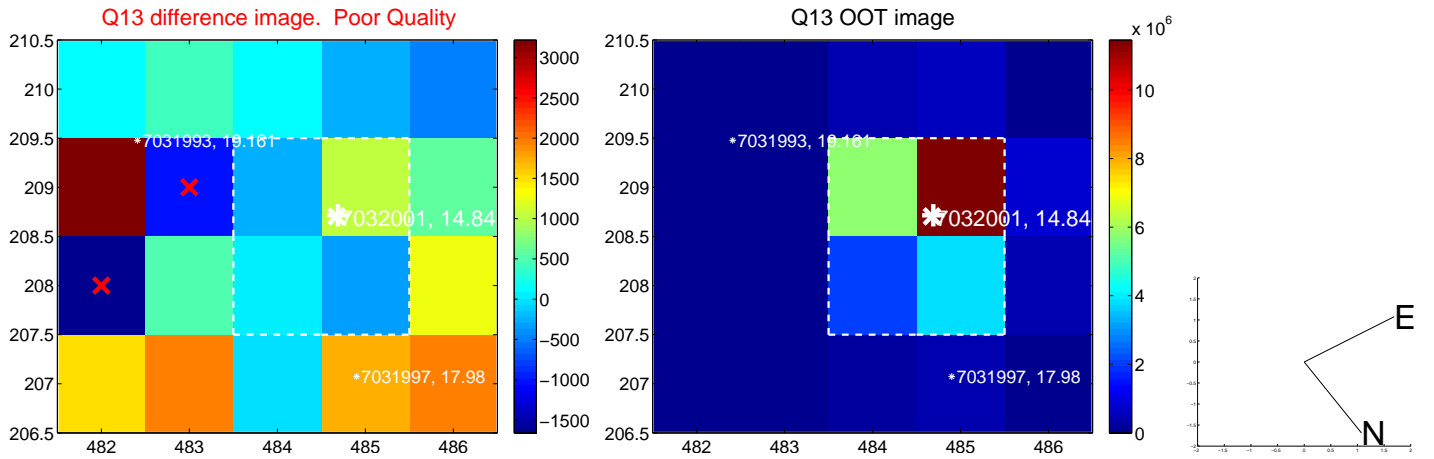
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

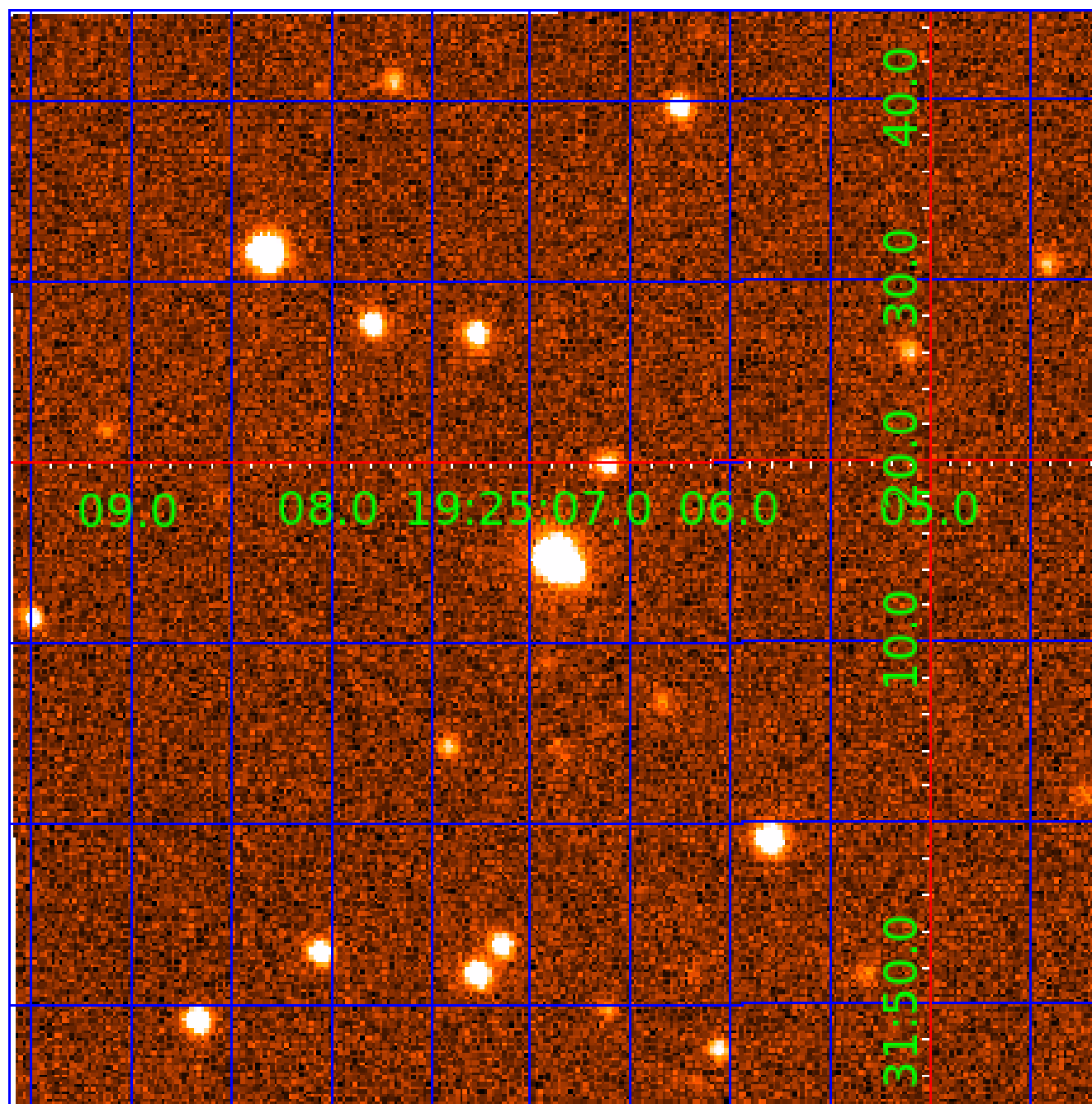


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

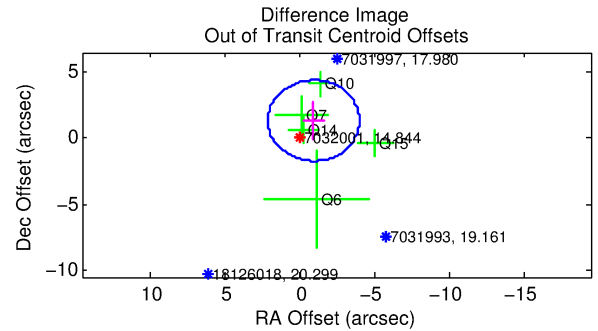
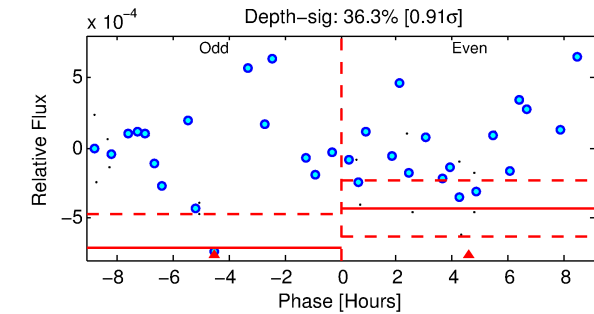
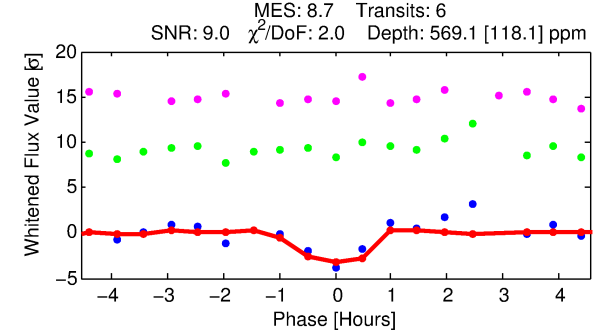
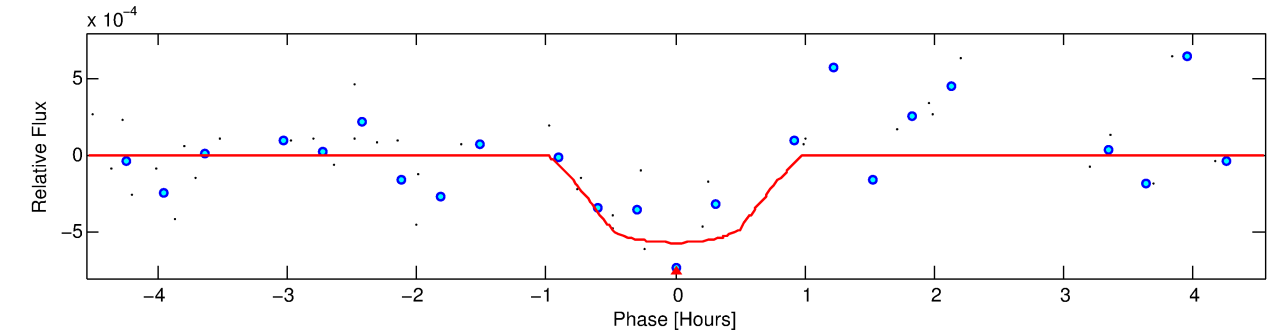
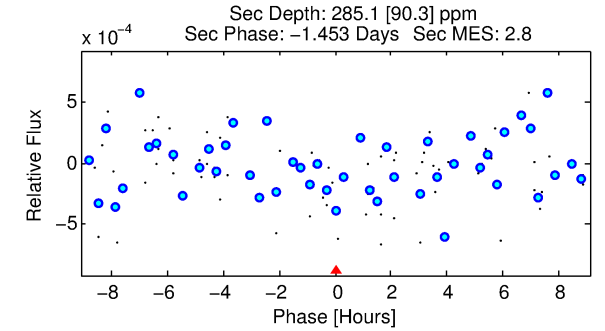
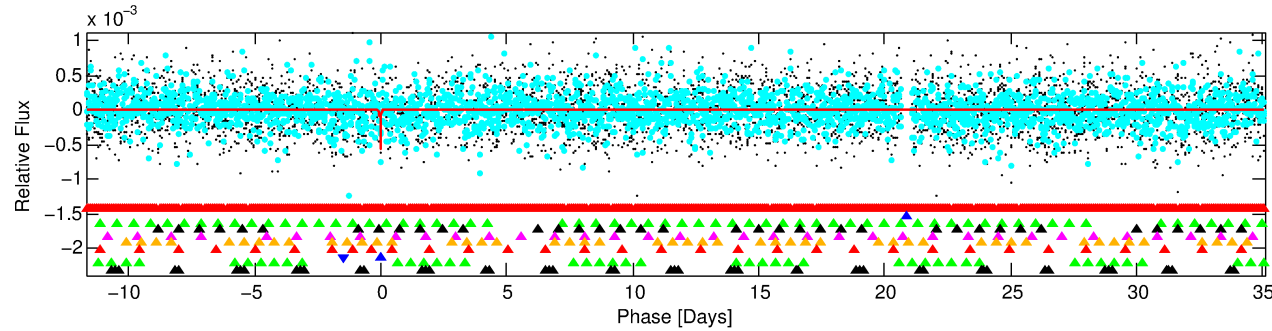
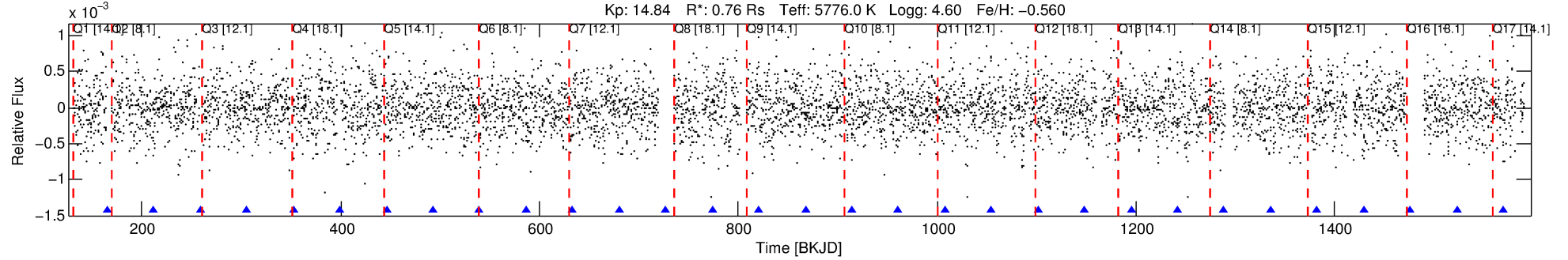
Ephemeris Match Information For 007032001-08

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 8 of 10 Period: 46.800 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



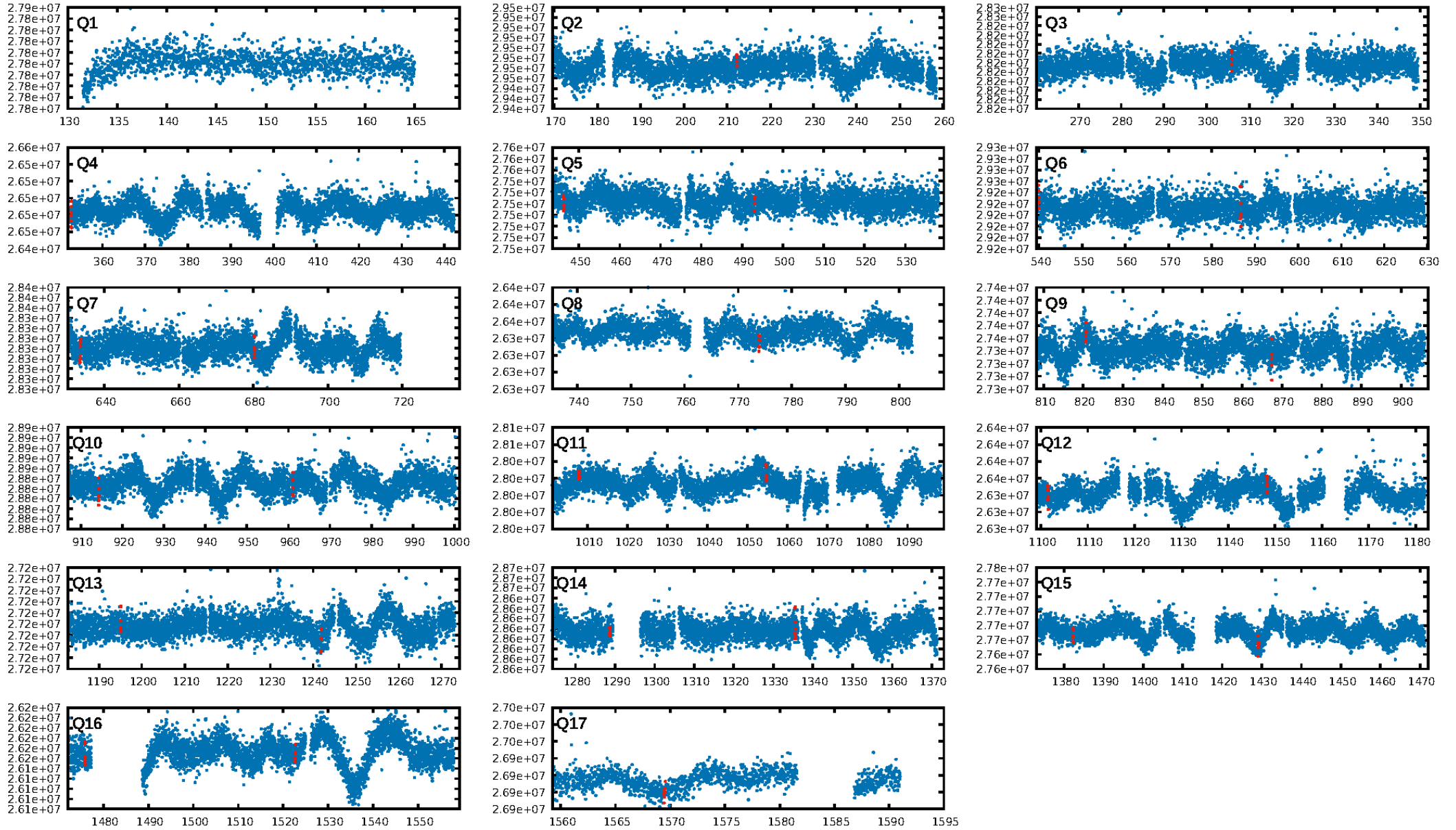
DV Fit Results:

Period = 46.79998 [0.00064] d
Epoch = 165.4844 [0.0120] BKJD
Rp/R* = 0.0221 [0.0649]
a/R* = 229.78 [3221.27]
b = 0.30 [42.77]
Seff = 10.04 [3.17]
Teq = 454 [36] K
Rp = 1.83 [5.39] Re
a = 0.2390 [0.0494] AU
Ag = 2685.70 [15835.90] [0.17] σ
Teff = 5051 [7438] K [0.62] σ

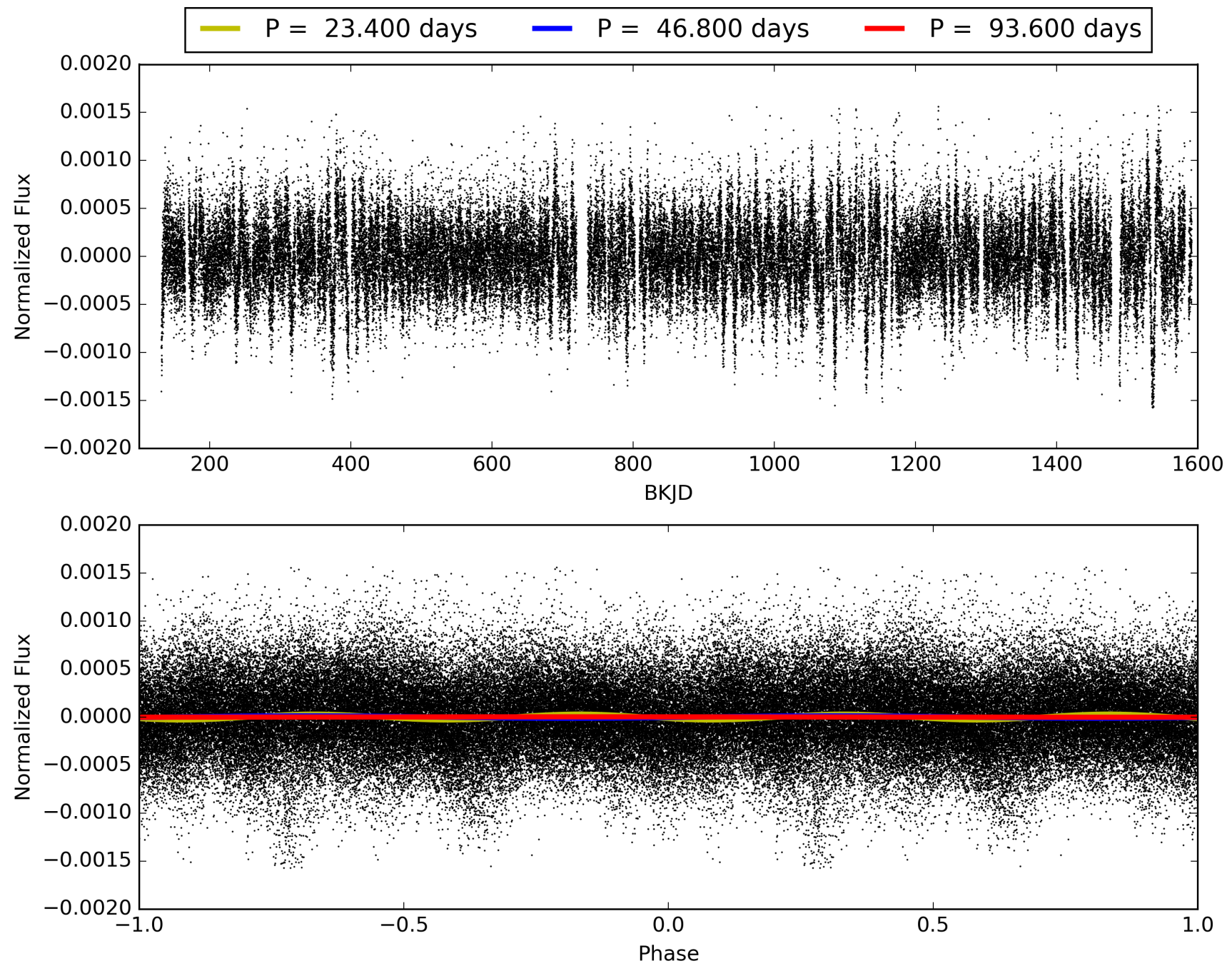
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [20.84] σ
LongPeriod-sig: 0.1% [0.00] σ
ModelChiSquare2-sig: 50.2%
ModelChiSquareGof-sig: 96.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 4.291
Centroid-sig: N/A
Centroid-so: 1.604 arcsec [1.61] σ
OotOffset-rm: 1.650 arcsec [1.62] σ
OotOffset-st: 3/2/0/0 [5]
KicOffset-rm: 1.646 arcsec [1.63] σ
KicOffset-st: 3/2/0/0 [5]
DiffImageQuality-fgm: 0.00 [0/5]
DiffImageOverlap-fno: 0.00 [0/15]

TCE 007032001-08, PDC Light Curves

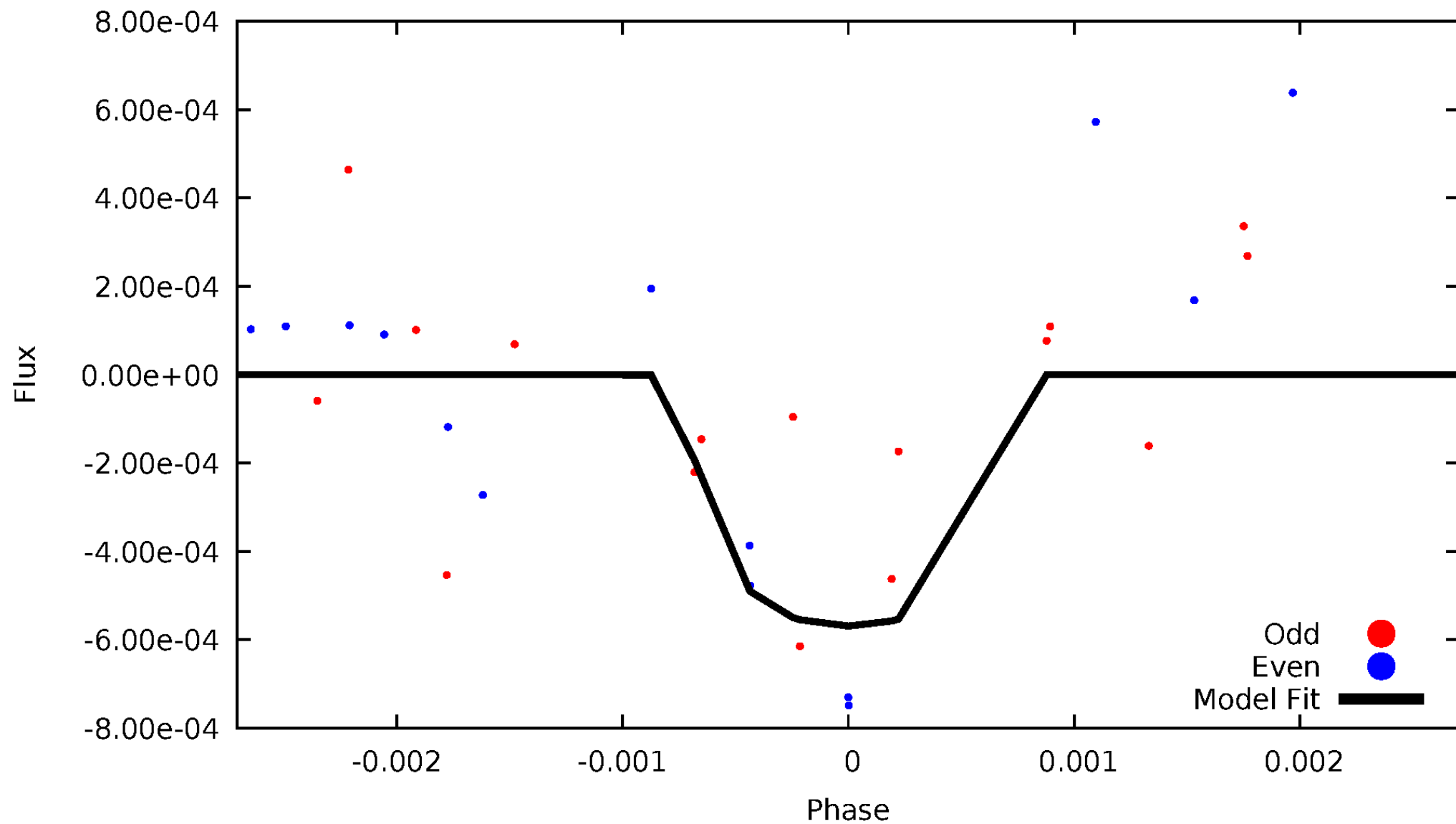


TCE 007032001-08



DV Odd/Even

TCE 007032001-08

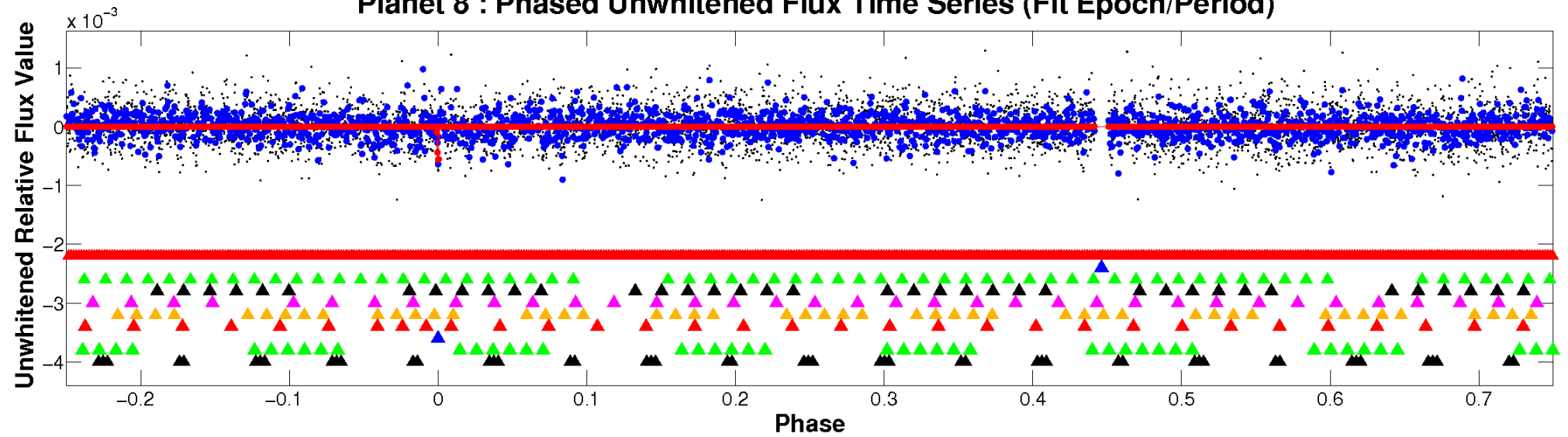


ALT Odd/Even

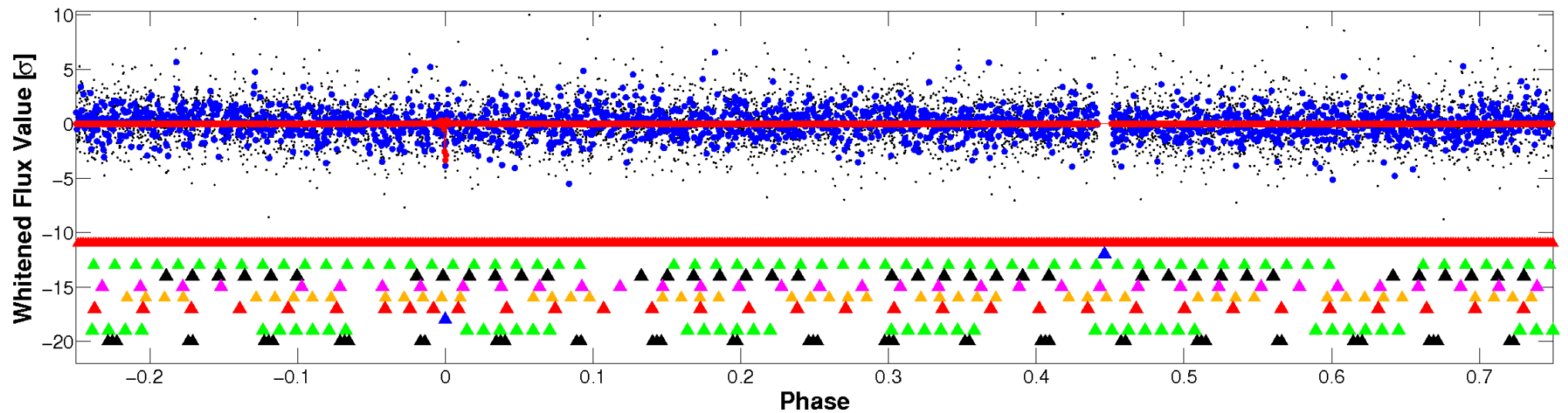
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

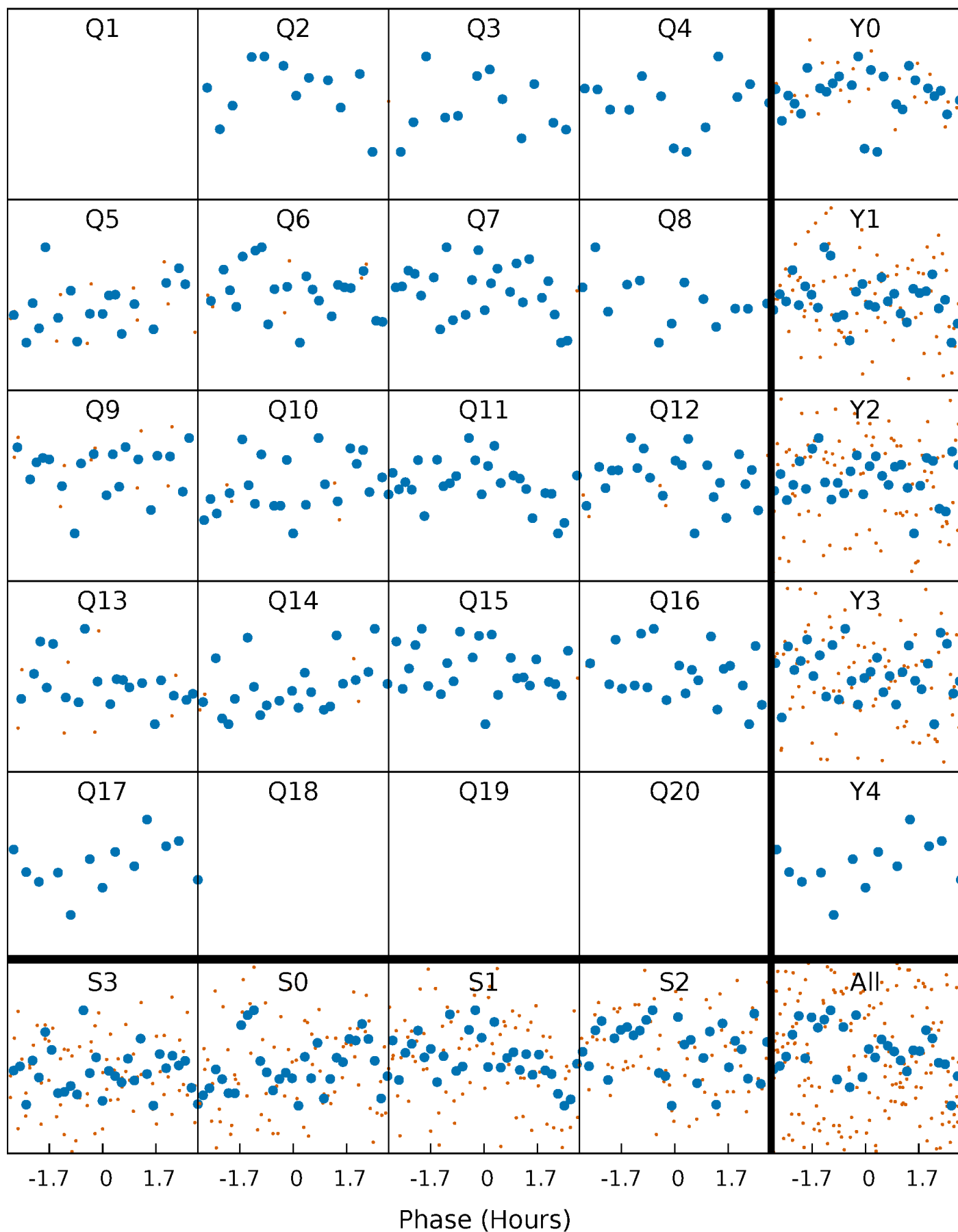


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



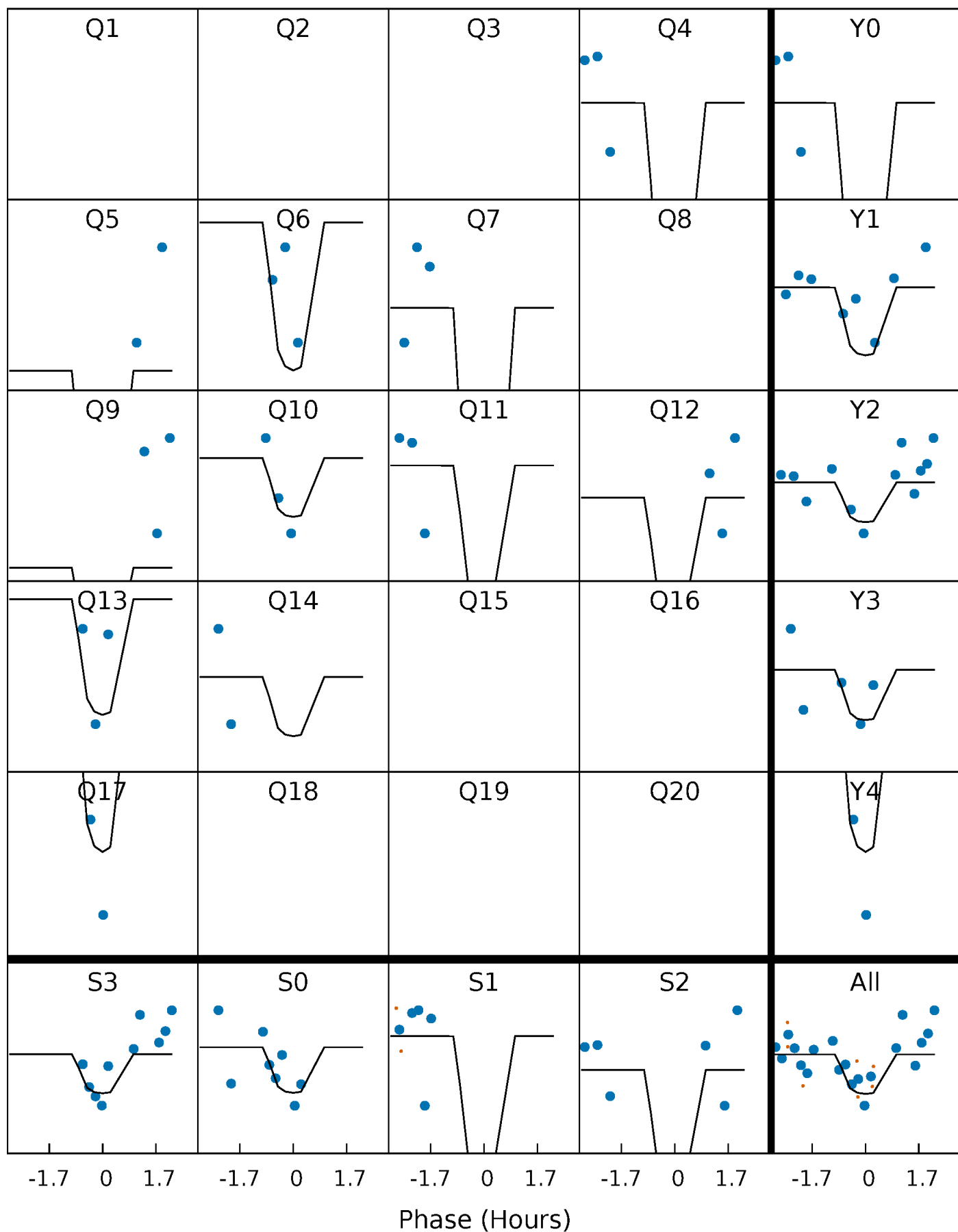
PDC Quarter-Phased Transit Curves

TCE 007032001-08 P= 46.799982 Days $T_0=165.484445$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007032001-08 P= 46.799982 Days $T_0=165.484445$ (BKJD)

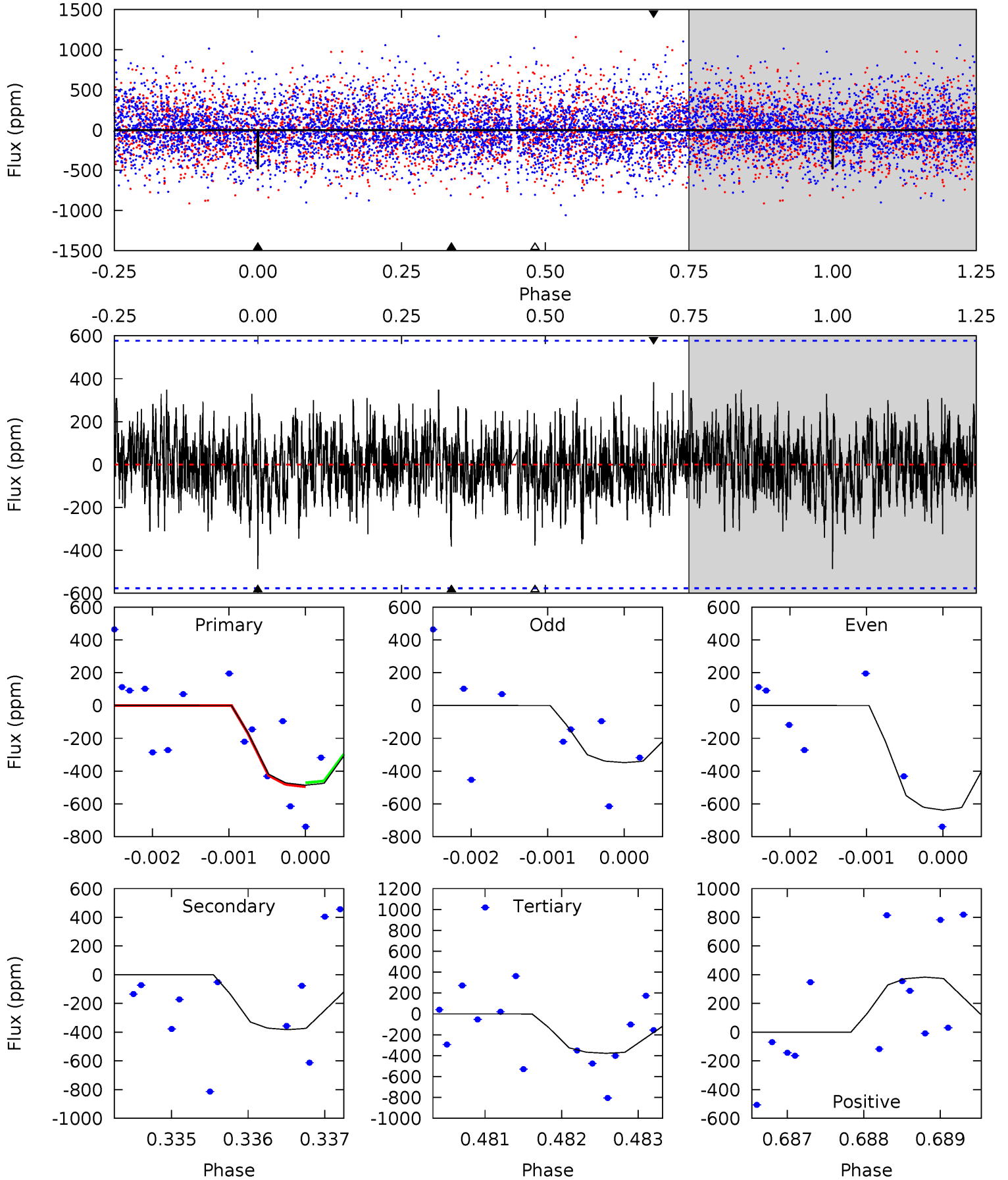


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007032001-08, P = 46.799982 Days, E = 118.684463 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.61	3.63	3.58	3.63	5.47	3.32	1.09	1.03	0.98	0.05	-0.00	1.37	0.98	0.44	0.10



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-383 ± 106	$4.51^{+4.89}_{-3.27}$	644^{+34}_{-26}	3869^{+2758}_{-804}	576^{+6678}_{-450}
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 $A_{obs} \gg 1.0$

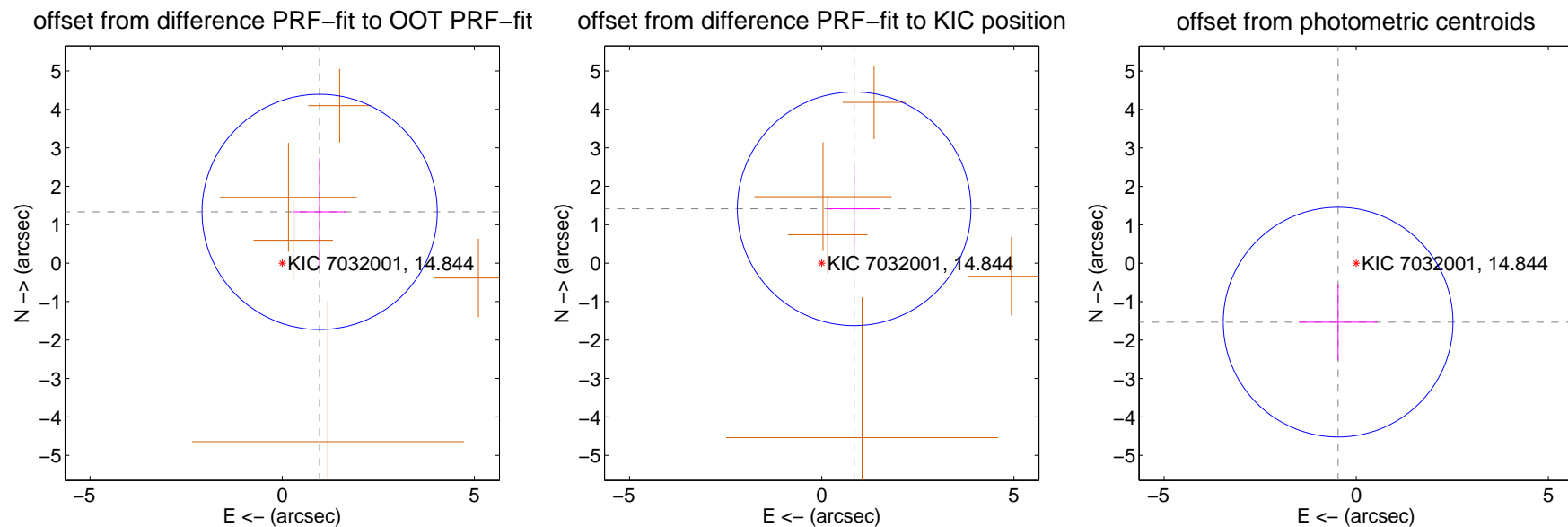
DV Centroid Data

Supplemental centroid analysis for 007032001-08. Kepler magnitude: 14.84. Transit SNR 9.00

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.650 ± 1.020	1.62	-0.973 ± 0.671	1.332 ± 1.392
PRF-fit source offset from KIC position	1.646 ± 1.013	1.63	-0.844 ± 0.682	1.414 ± 1.107
photometric centroid source offset	1.60 ± 1.00	1.61	0.47 ± 1.03	-1.53 ± 0.99



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.

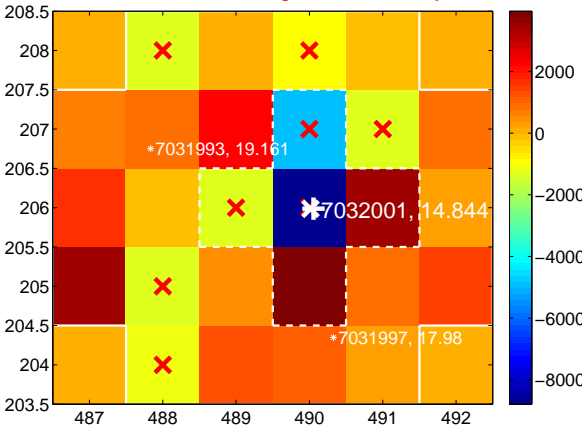
Q1 no difference image



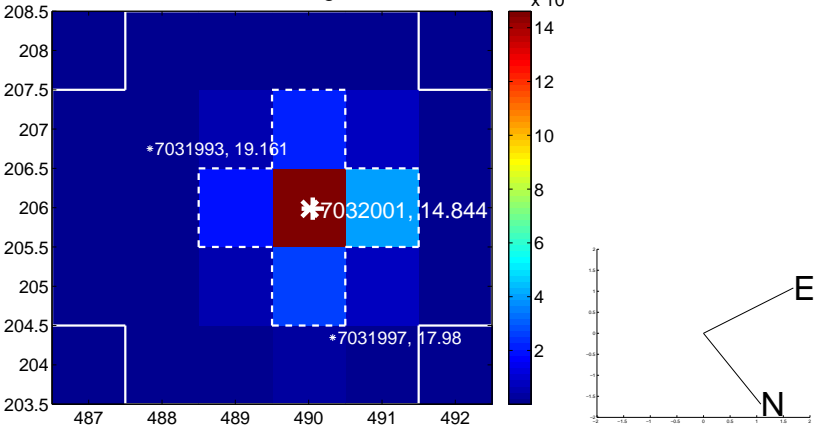
Q1 no OOT image



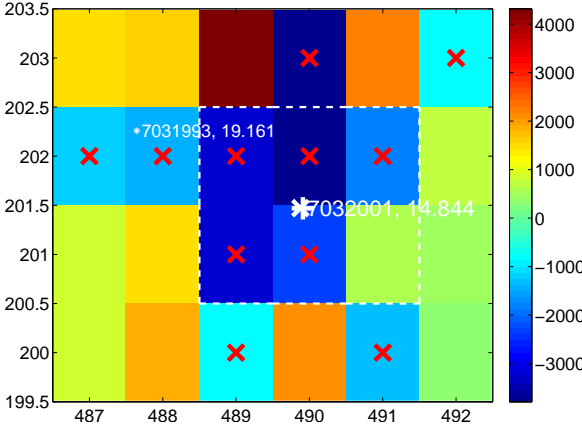
Q2 difference image. Poor Quality



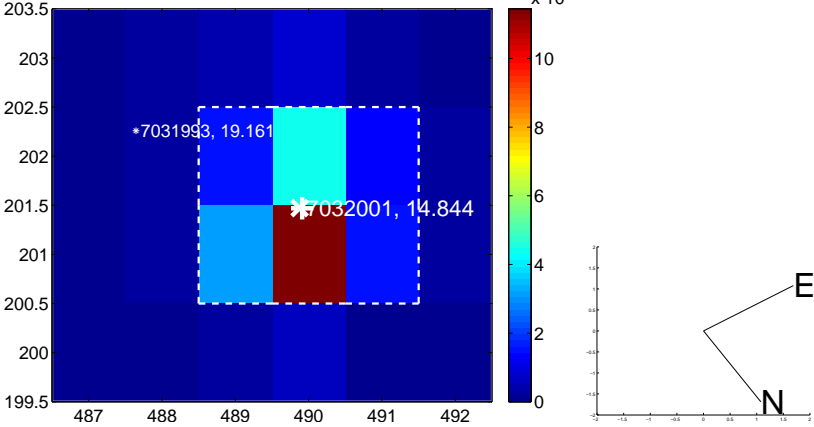
Q2 OOT image



Q3 difference image. Poor Quality



Q3 OOT image



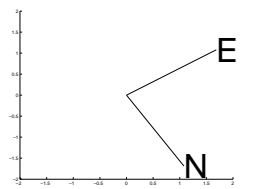
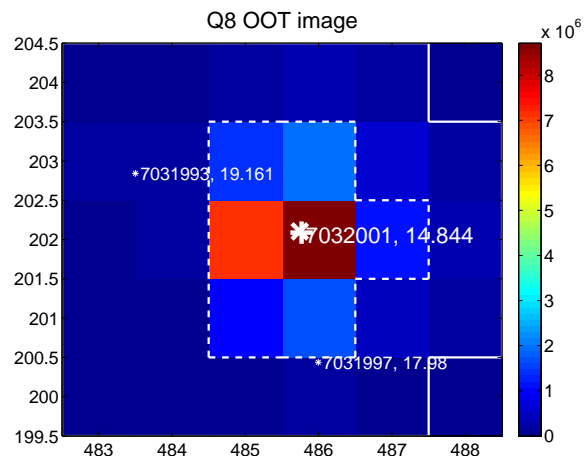
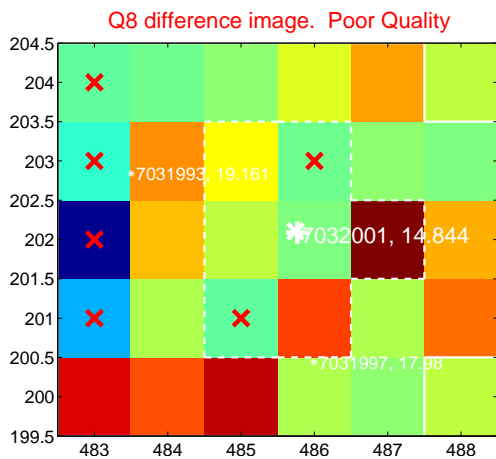
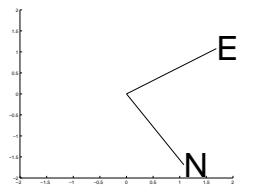
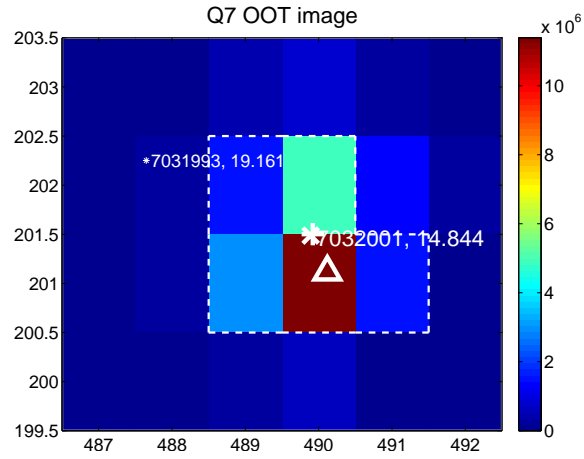
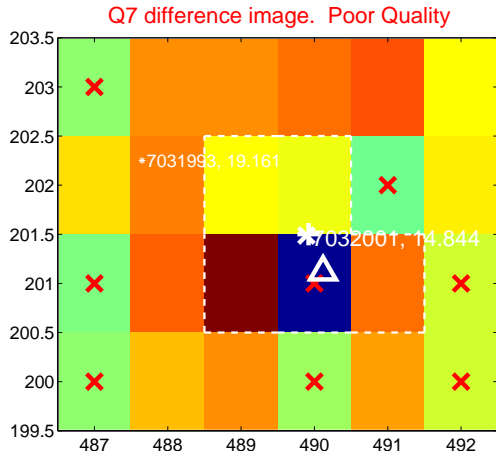
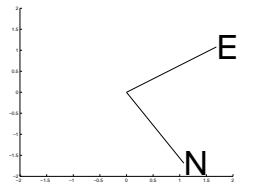
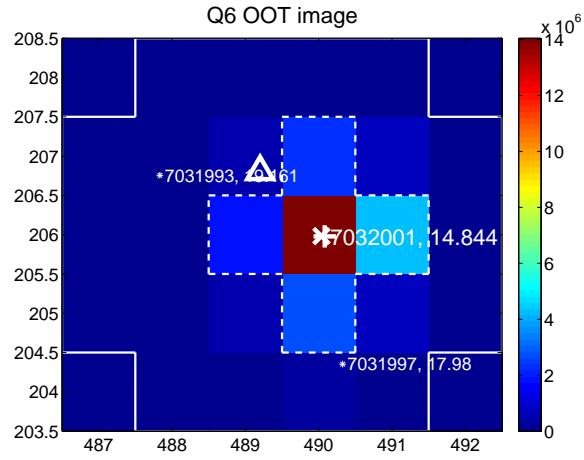
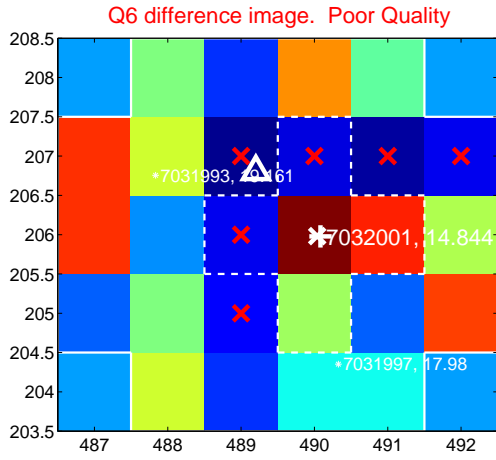
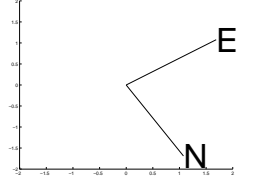
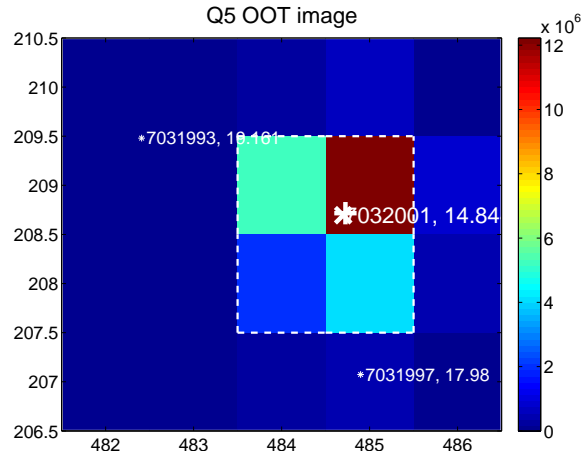
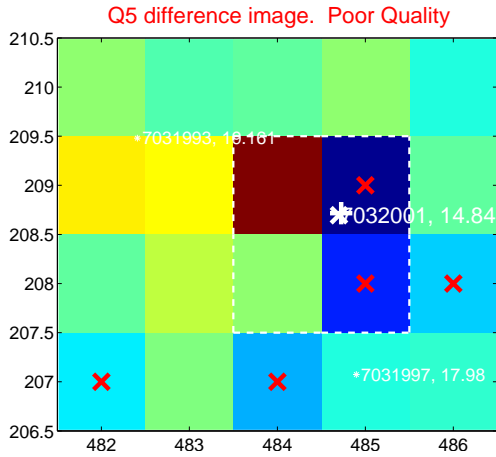
Q4 no difference image



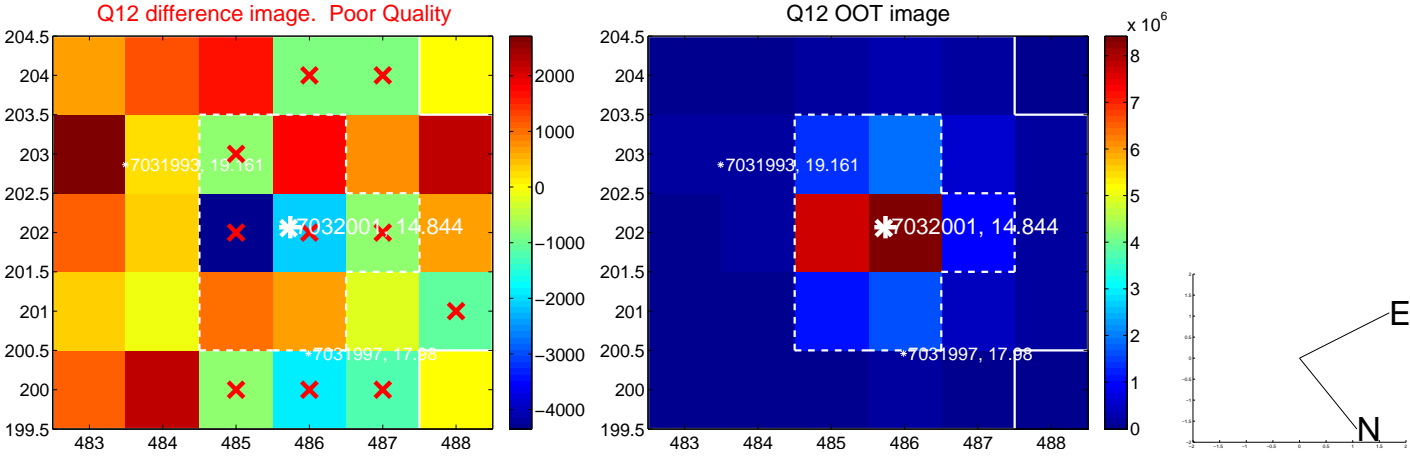
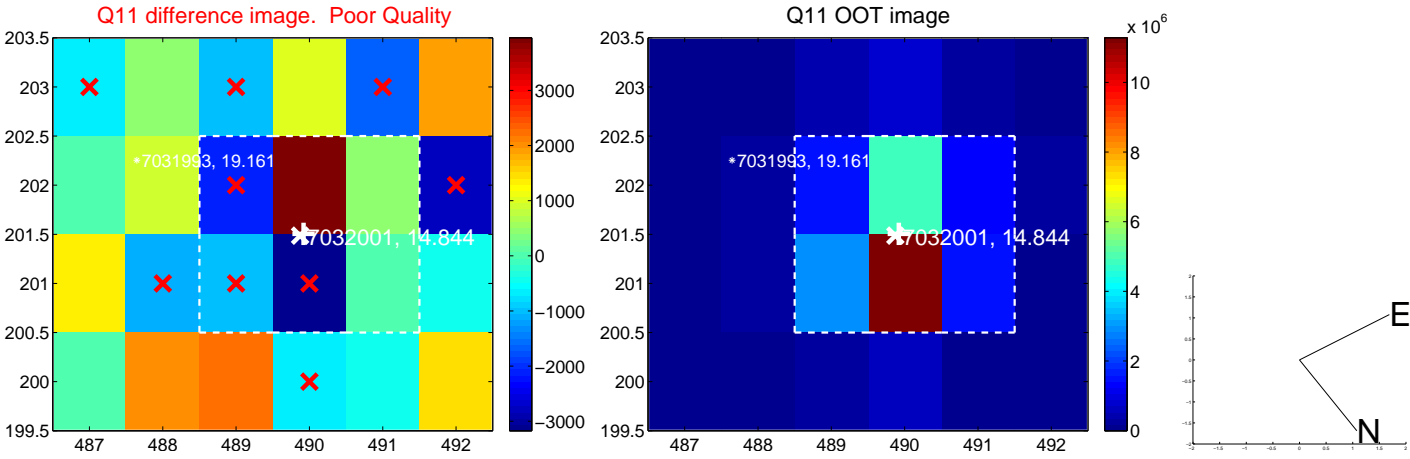
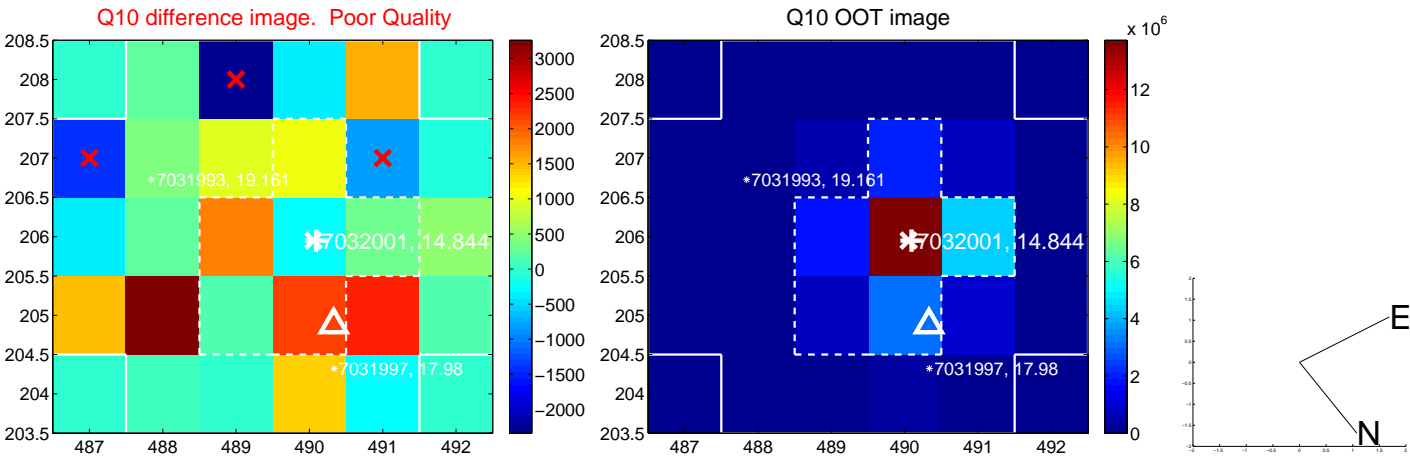
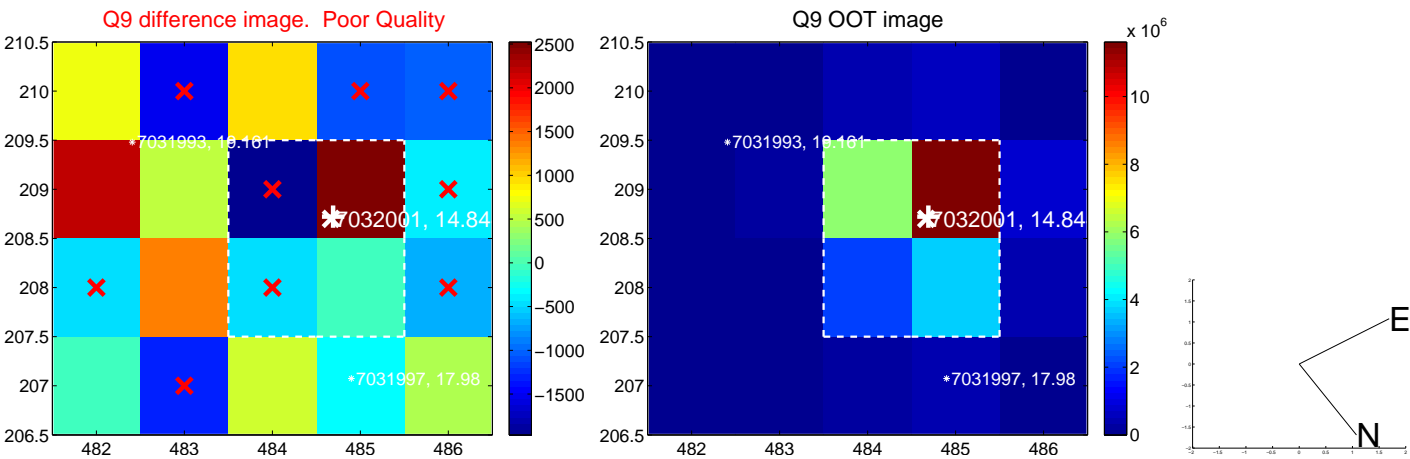
Q4 no OOT image



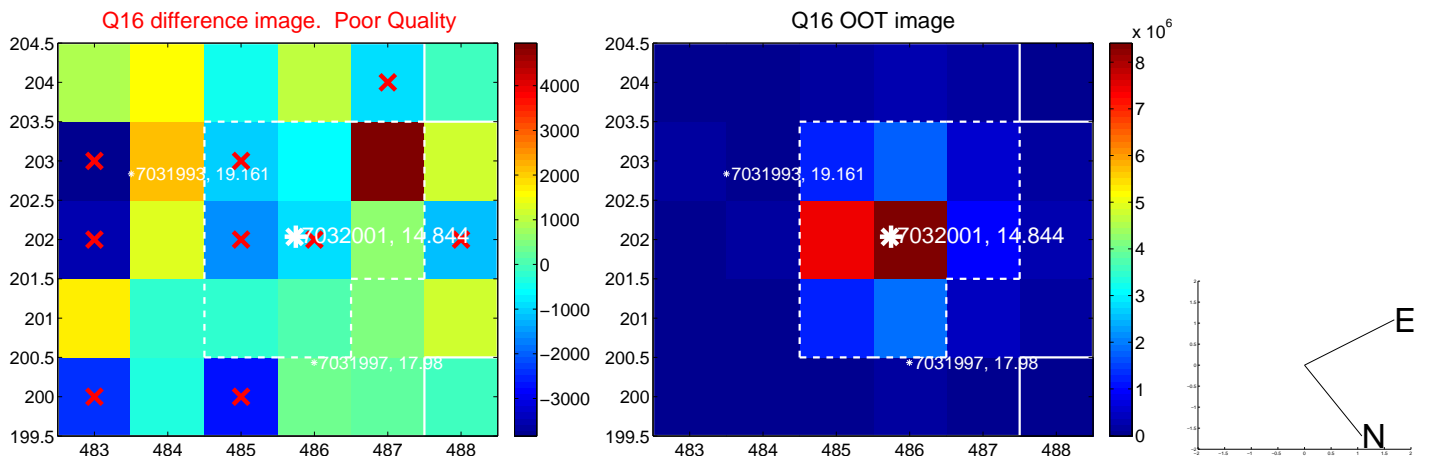
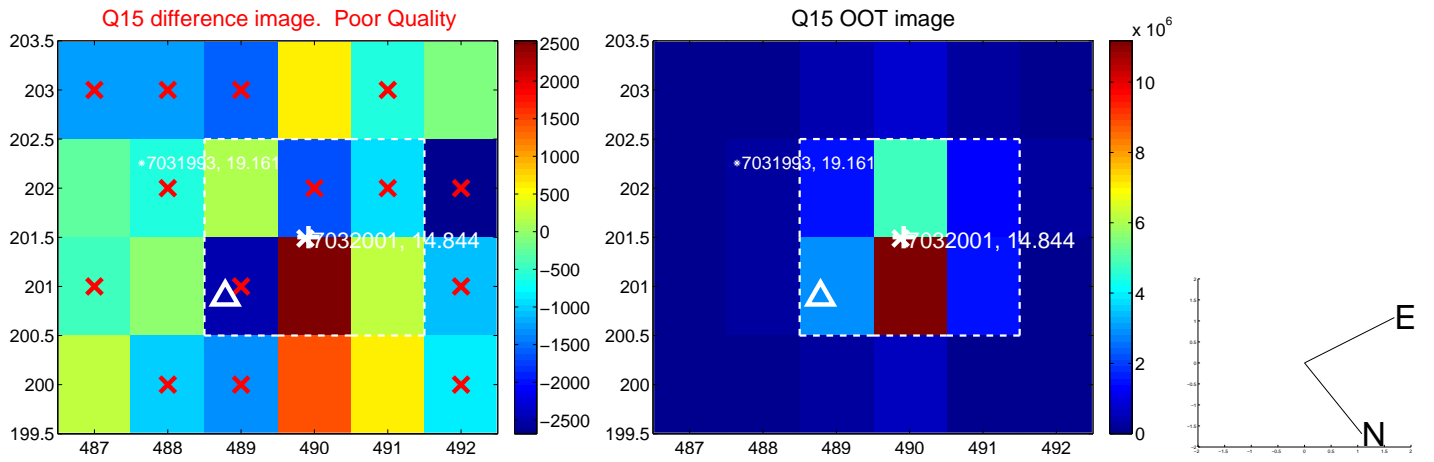
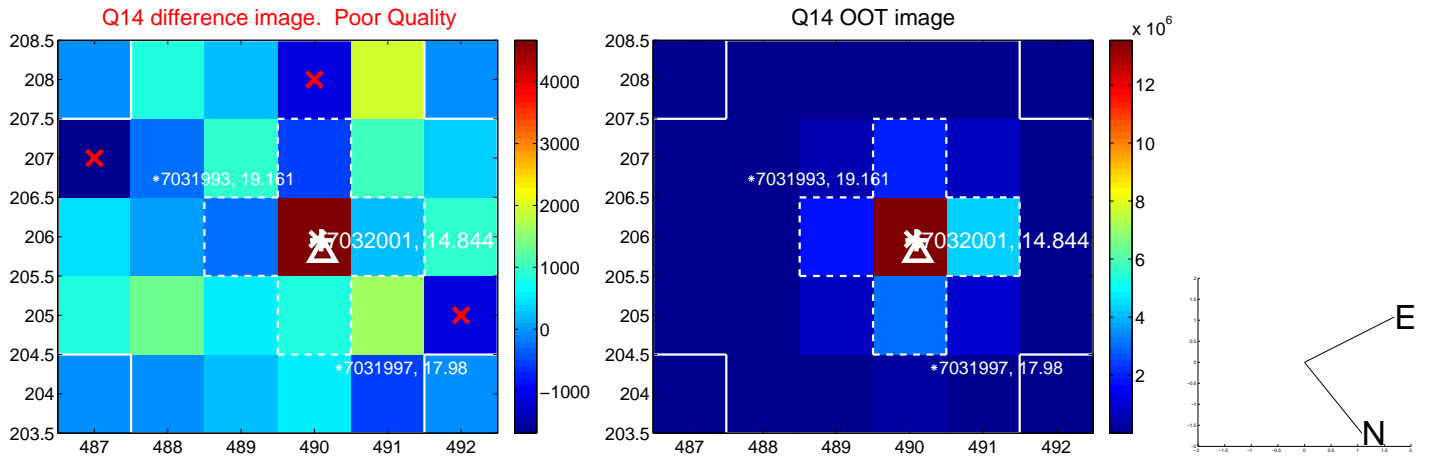
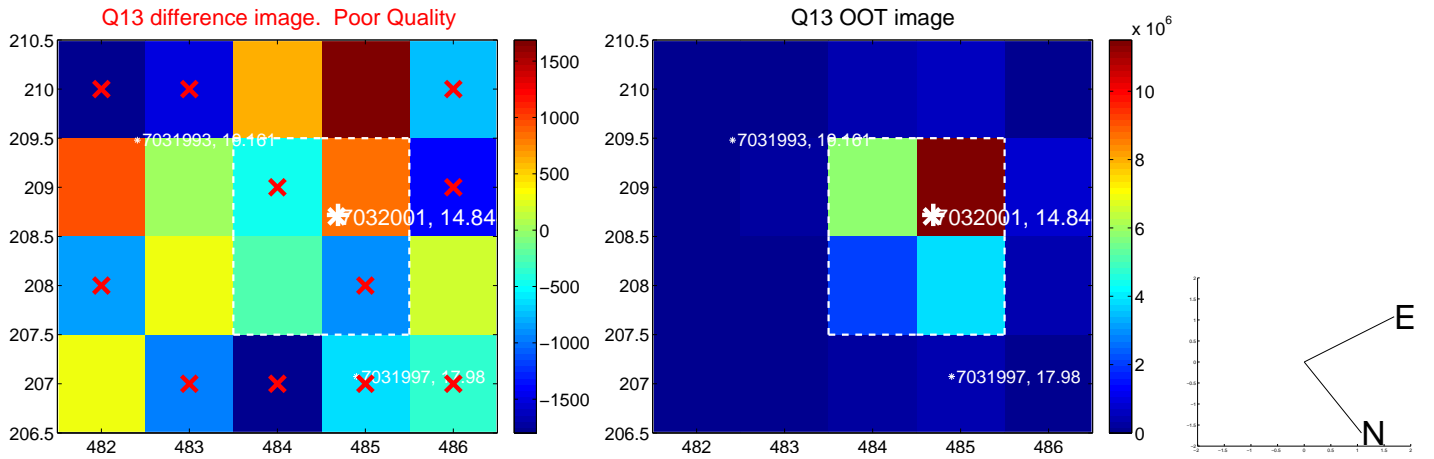
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



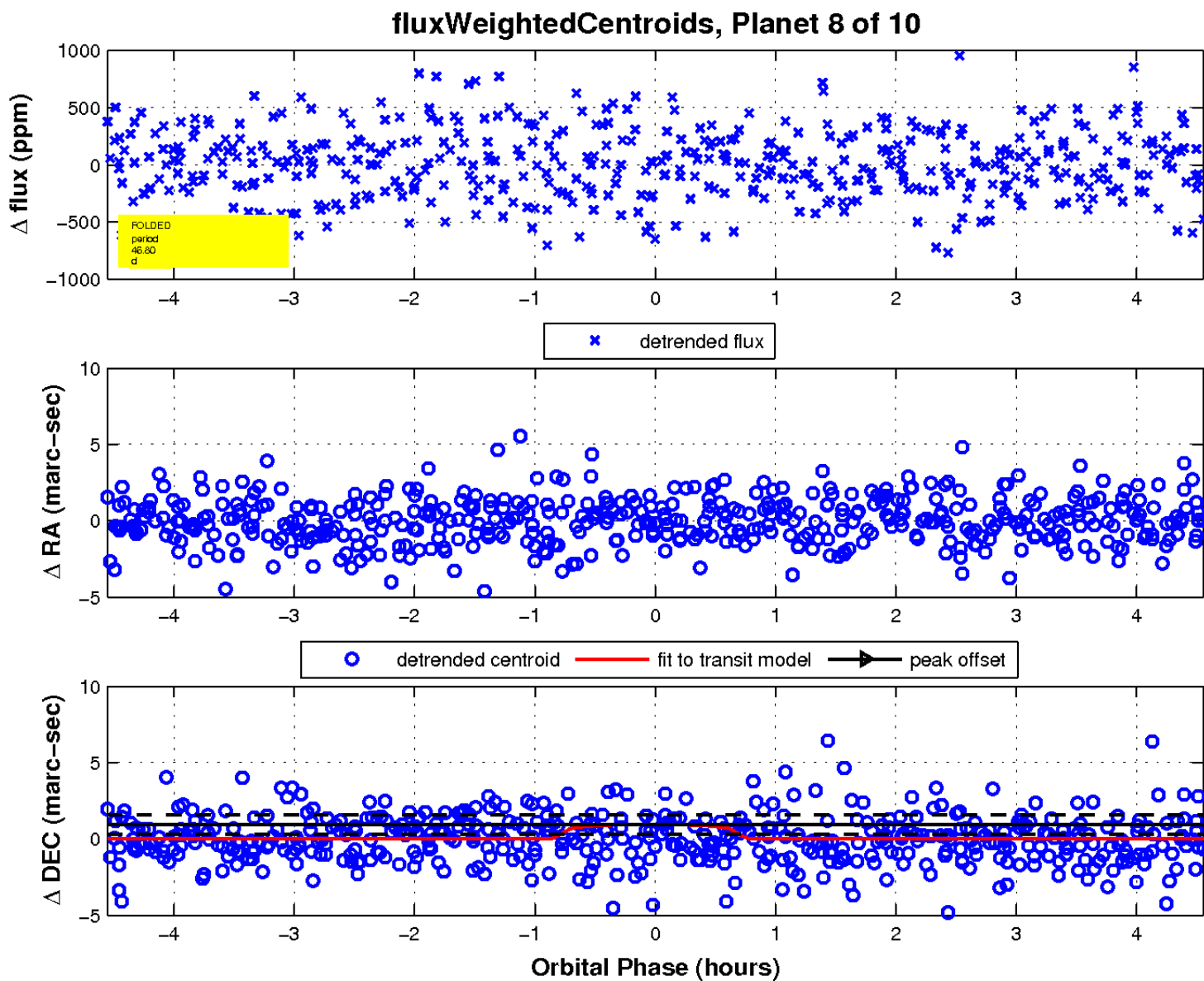
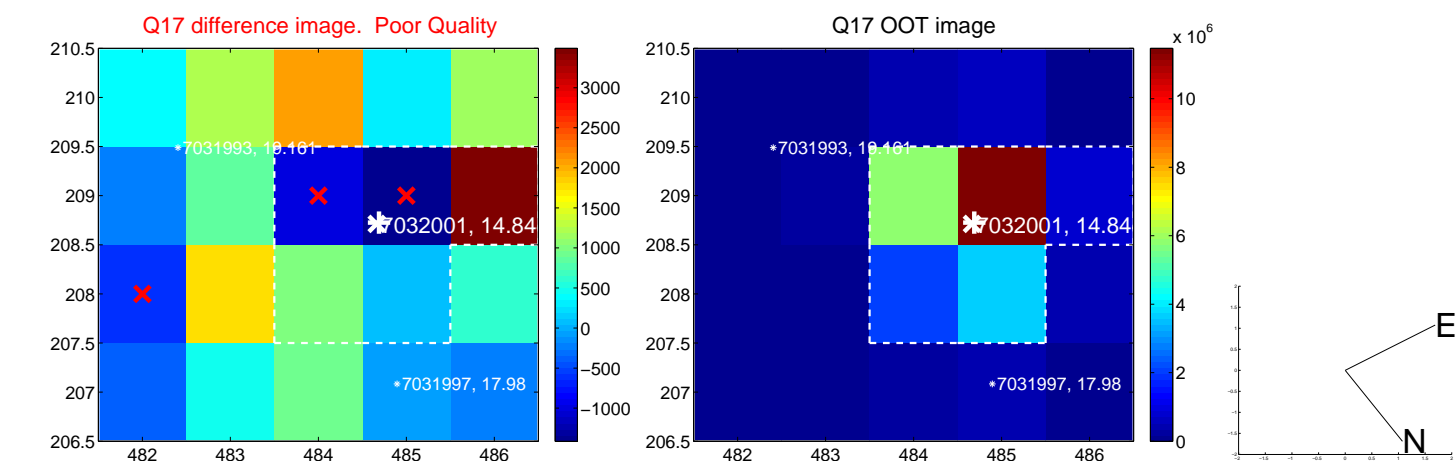
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

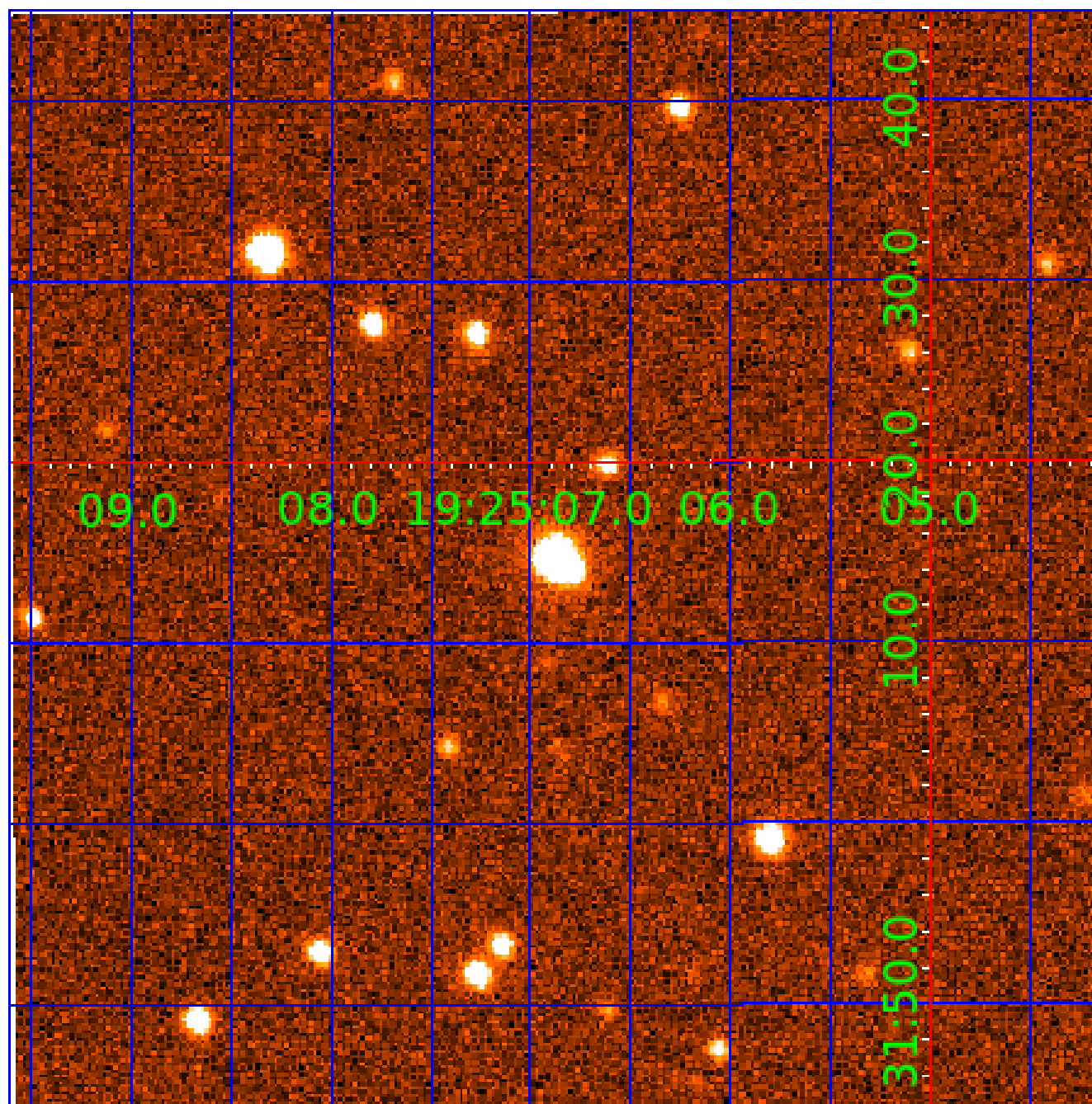


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

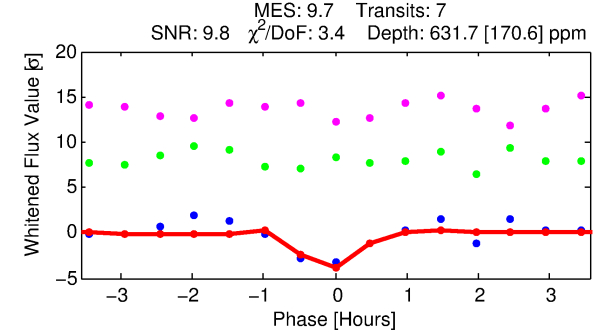
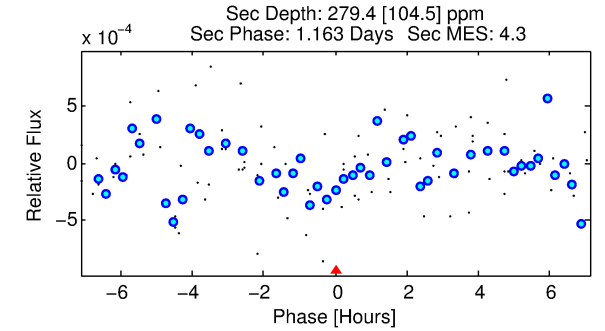
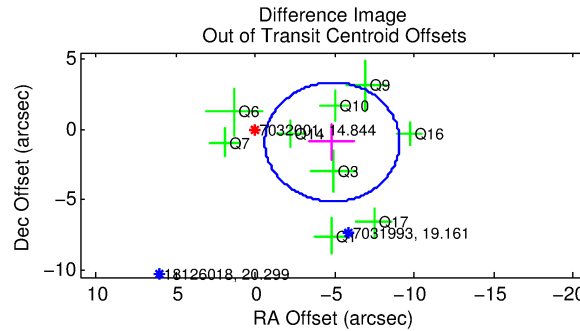
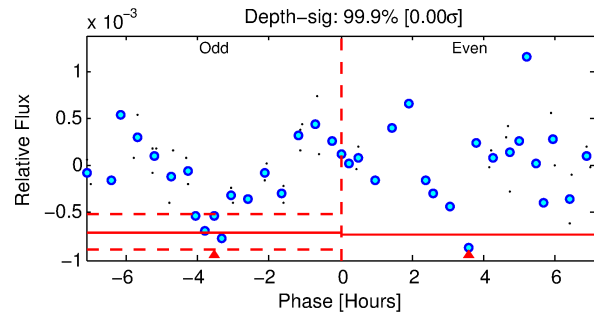
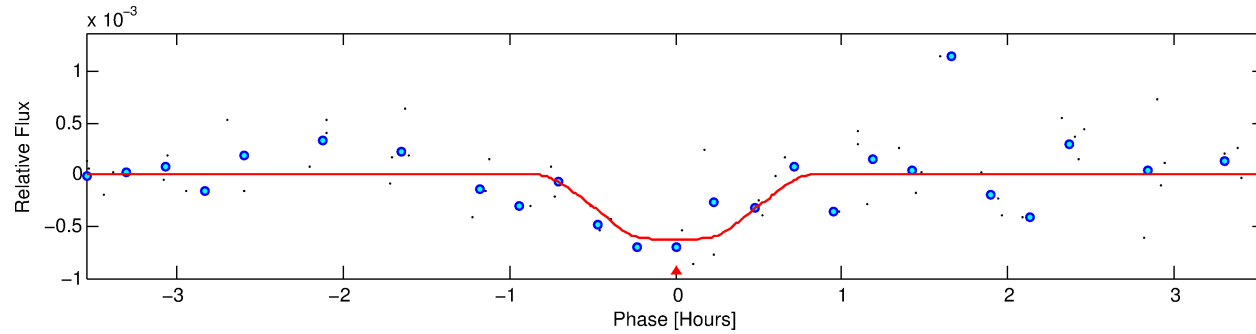
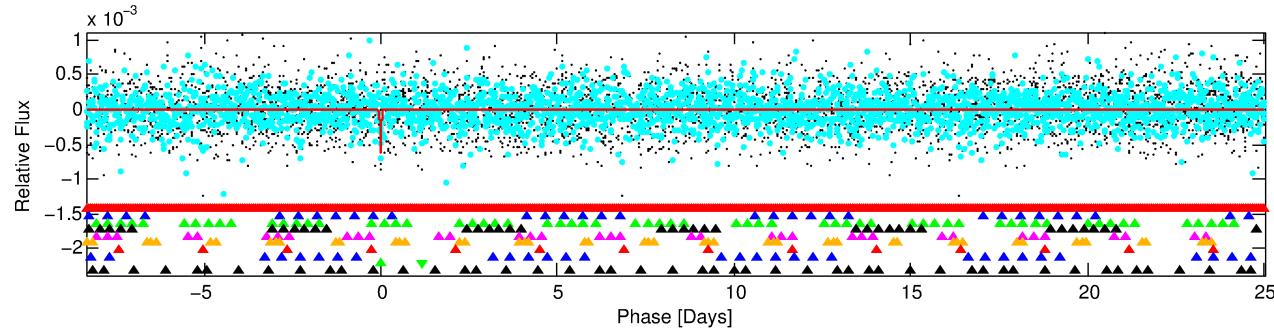
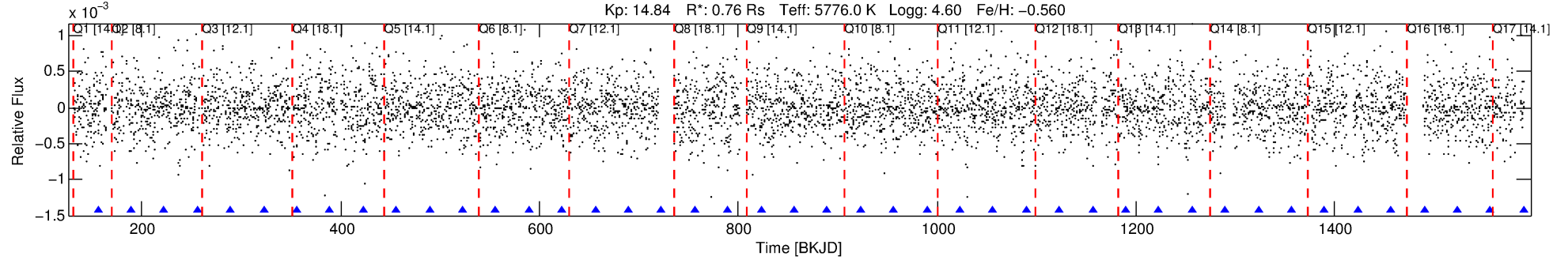
Ephemeris Match Information For 007032001-09

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 9 of 10 Period: 33.354 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



DV Fit Results:

Period = 33.35367 [0.00036] d
Epoch = 155.8698 [0.0066] BKJD
Rp/R* = 0.0269 [0.0362]
a/R* = 114.55 [738.29]
b = 0.88 [1.73]
Seff = 15.76 [4.98]
Teq = 508 [40] K
Rp = 2.22 [3.05] Re
a = 0.1907 [0.0394] AU
Ag = 1130.89 [3096.13] [0.36σ]
Teffp = 4556 [3102] K [1.30σ]

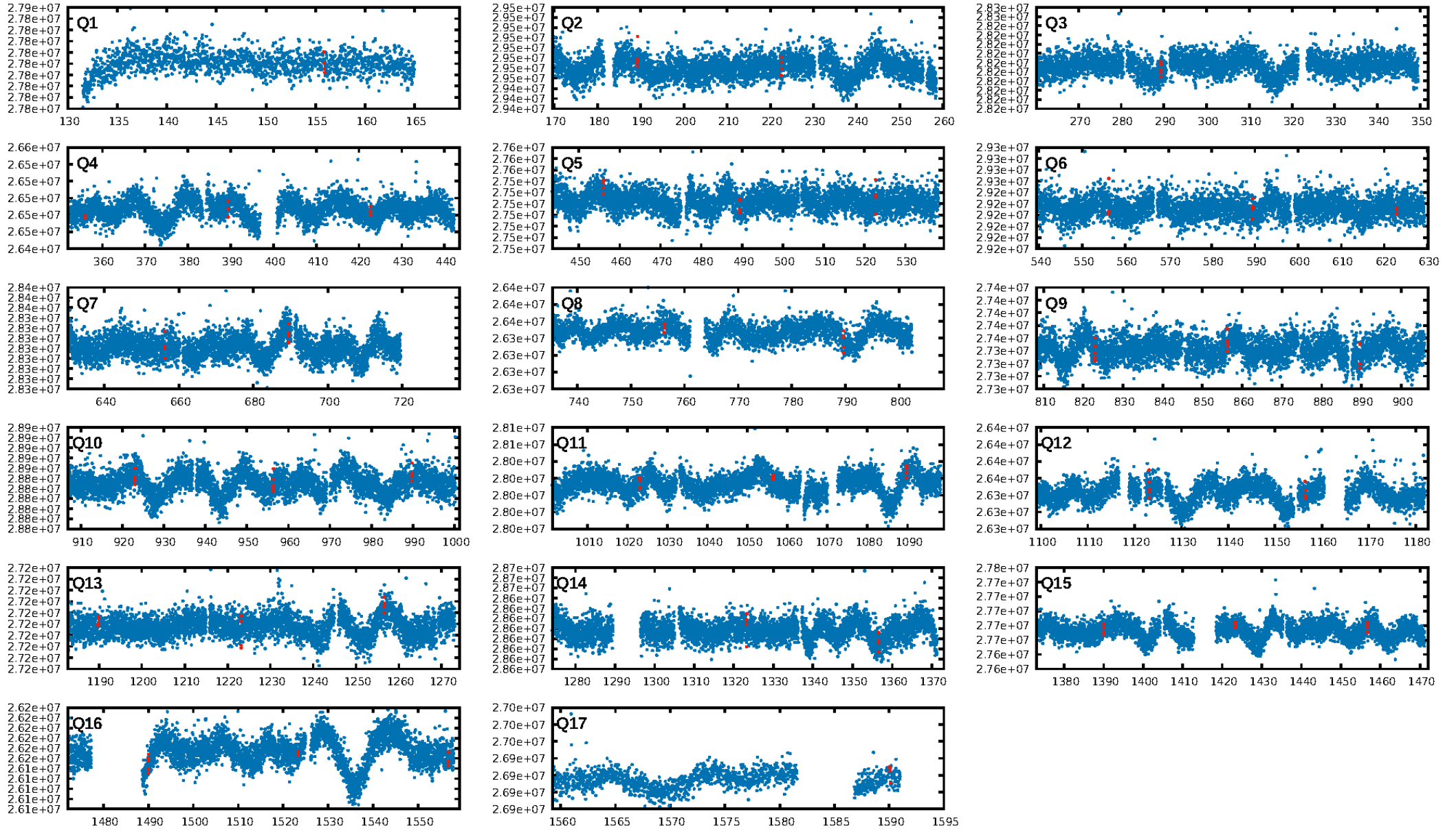
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [44.19σ]
LongPeriod-sig: 100.0% [66.24σ]
ModelChiSquare2-sig: 1.6%
ModelChiSquareGof-sig: 65.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 1.731
Centroid-sig: N/A
Centroid-so: 1.601 arcsec [1.86σ]
OotOffset-rm: 4.947 arcsec [3.50σ]
KicOffset-rm: 4.814 arcsec [3.39σ]
OotOffset-st: 3/2/1/3 [9]
KicOffset-st: 3/2/1/3 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 0.00 [0/17]

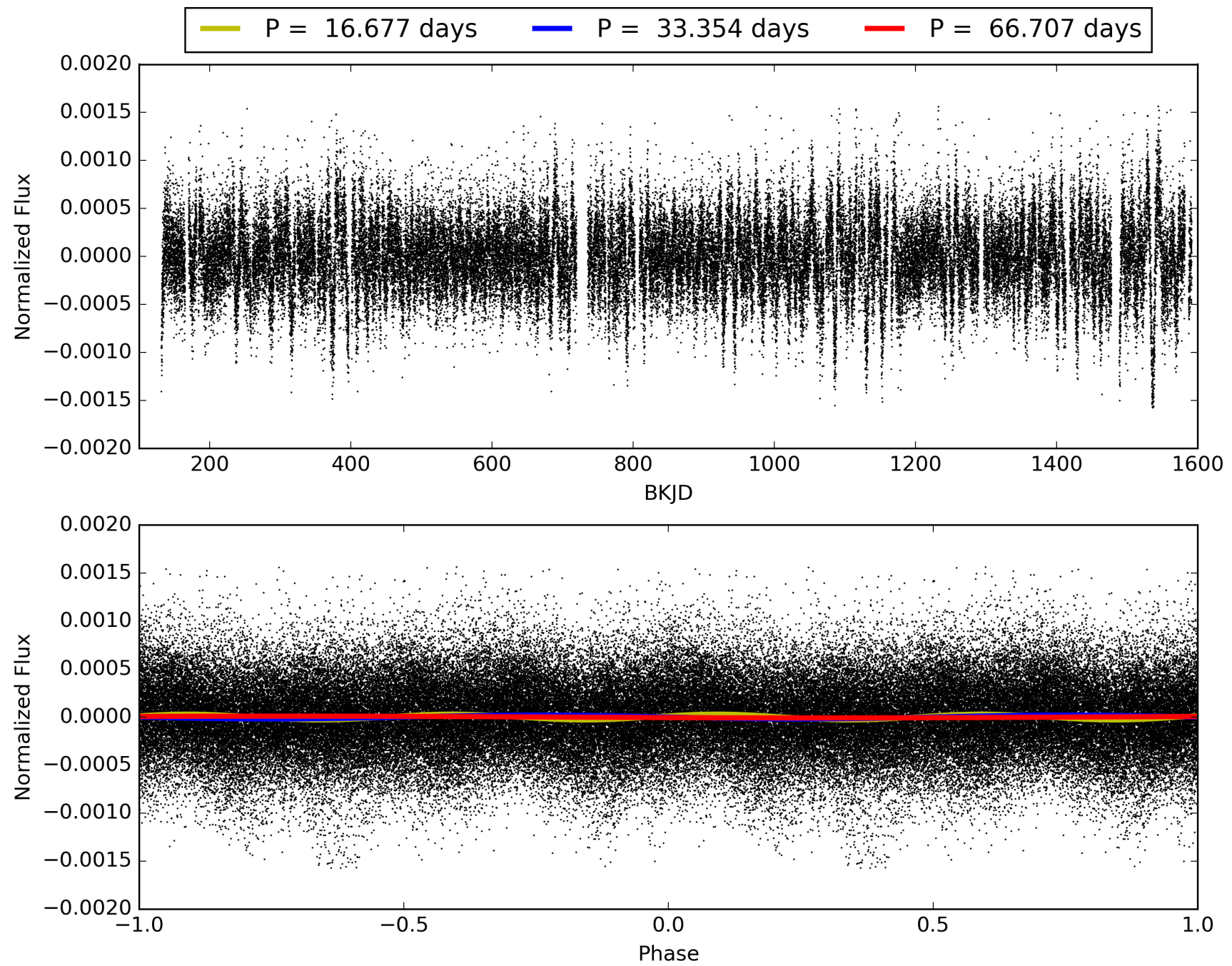
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 10:47:55 Z

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

TCE 007032001-09, PDC Light Curves

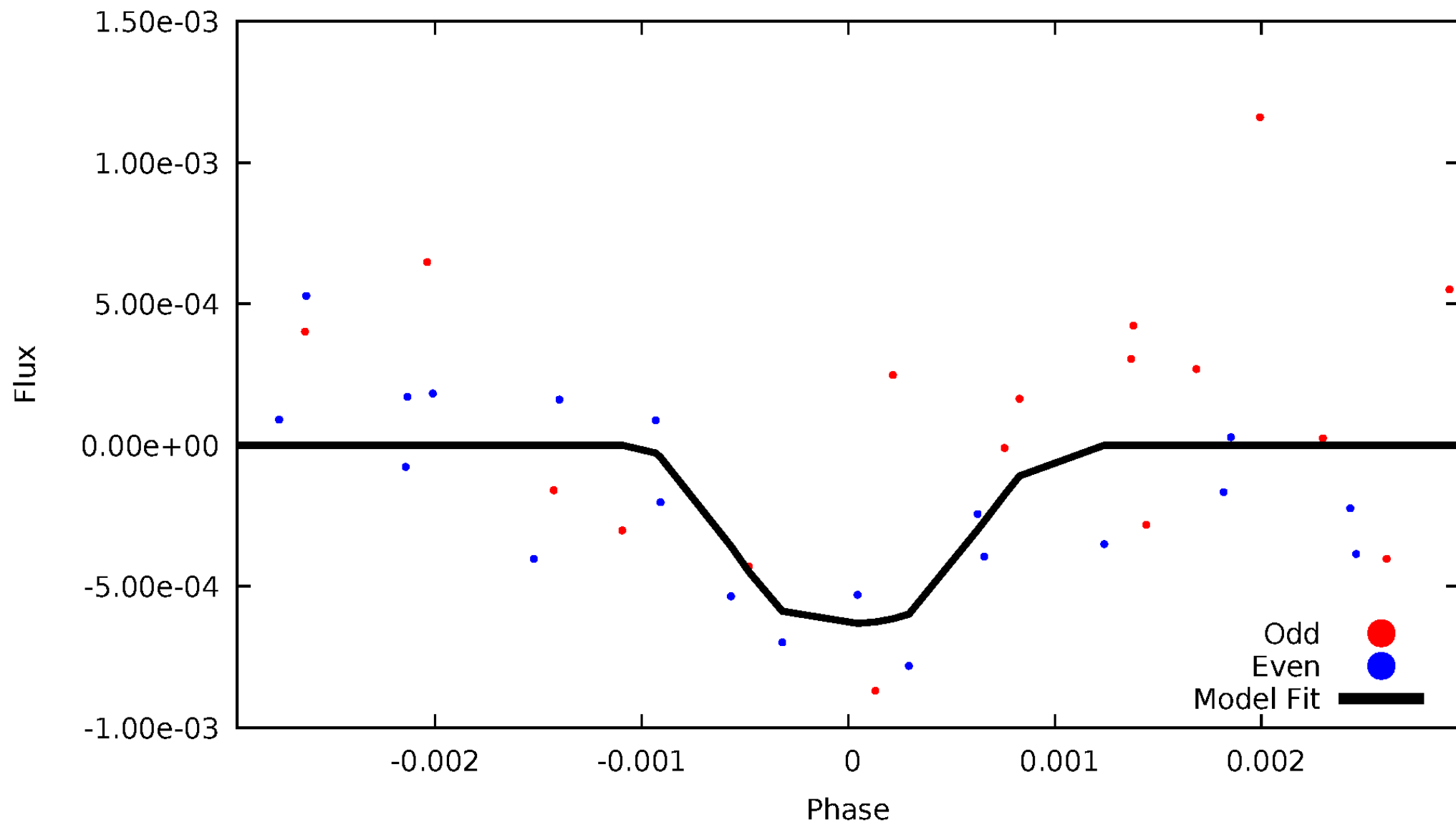


TCE 007032001-09



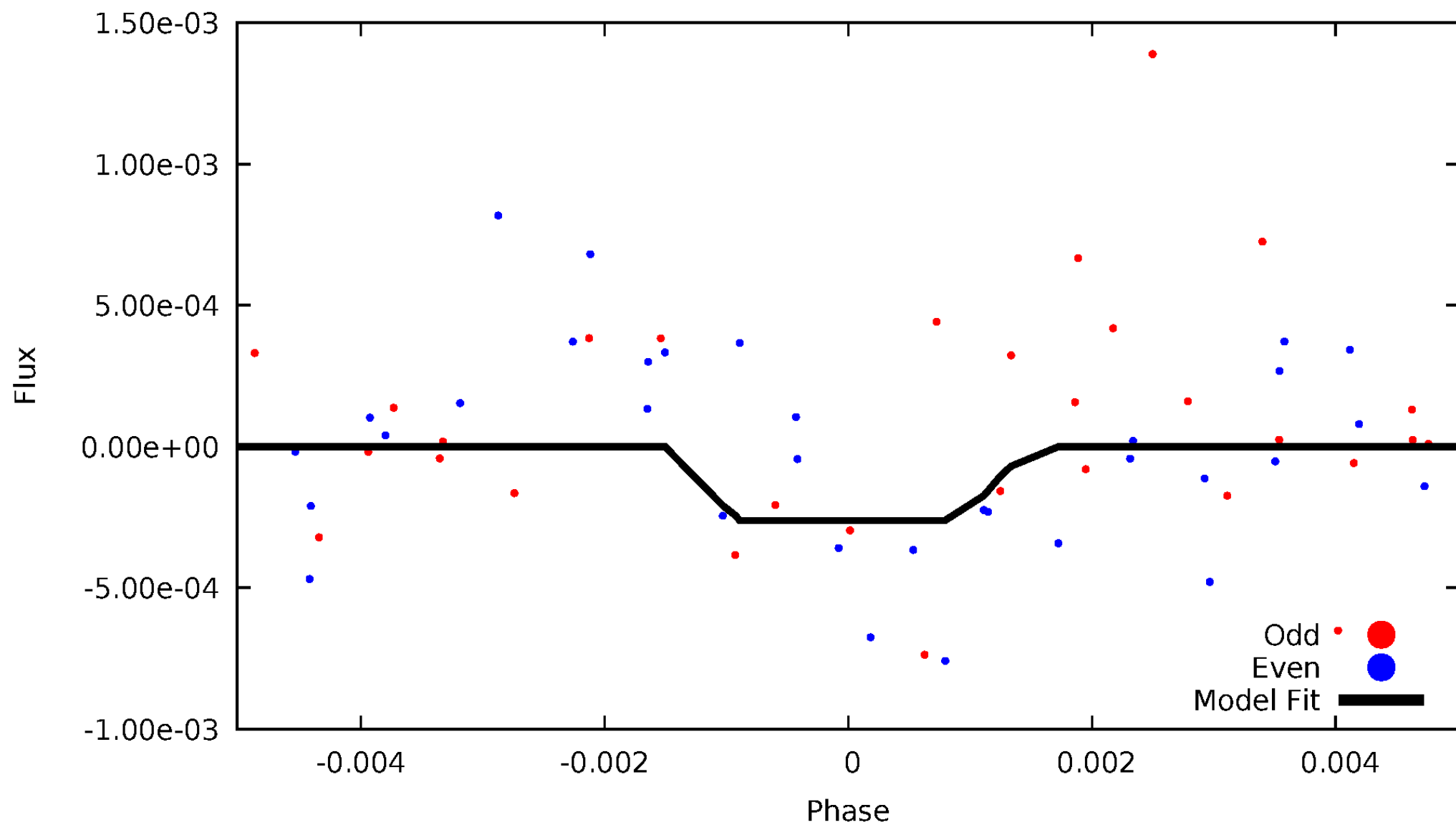
DV Odd/Even

TCE 007032001-09



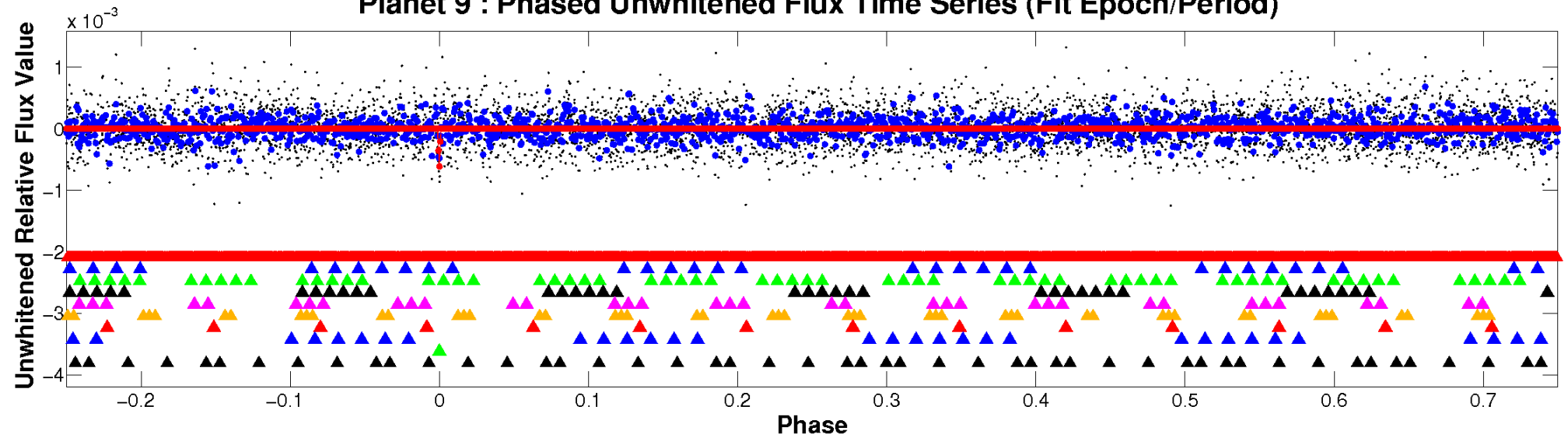
ALT Odd/Even

TCE 007032001-09

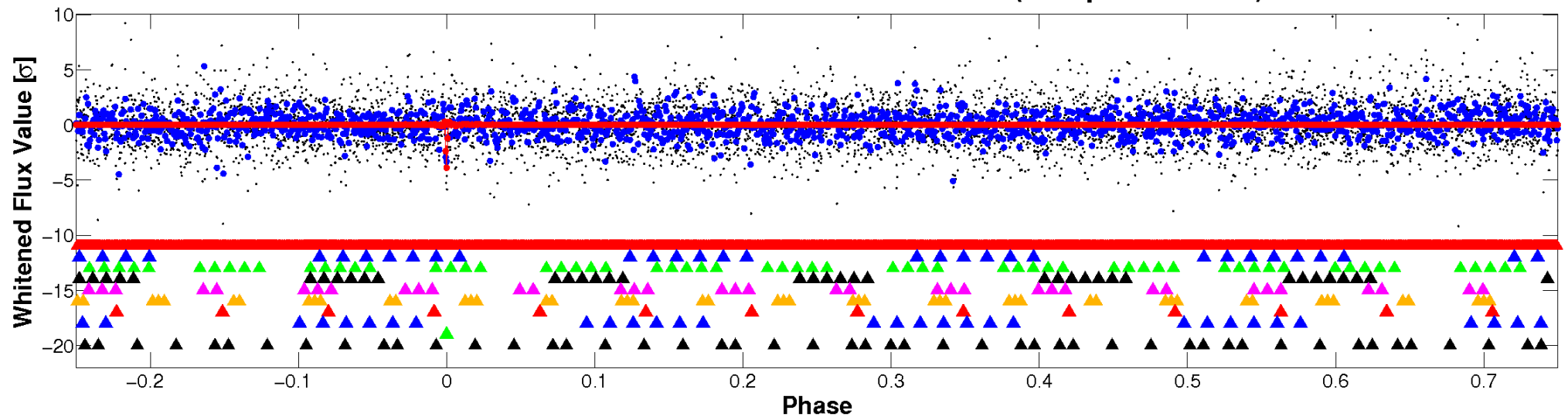


Non-Whitened Vs. Whitened Light Curve

Planet 9 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

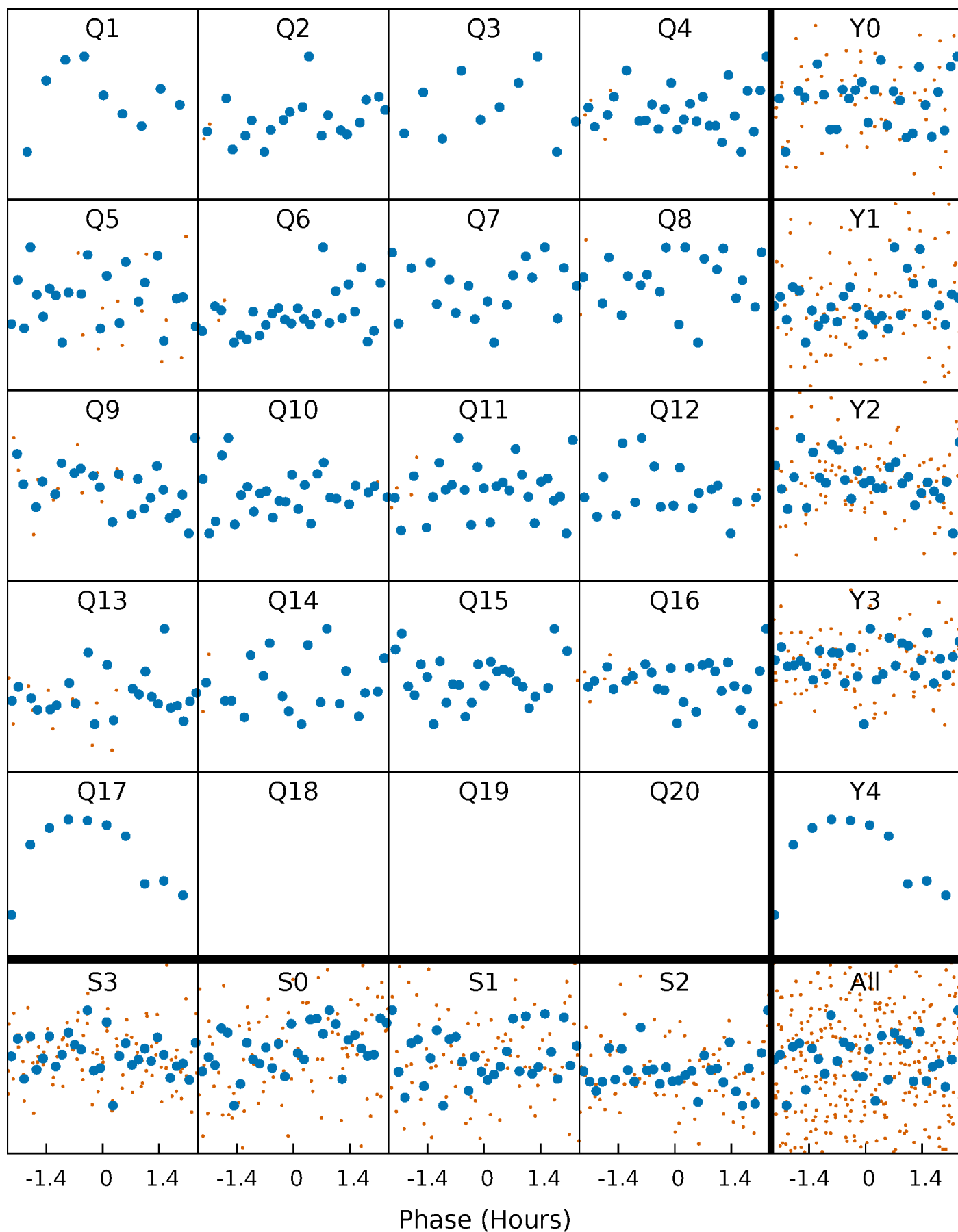


Planet 9 : Phased Whitened Flux Time Series (Fit Epoch/Period)



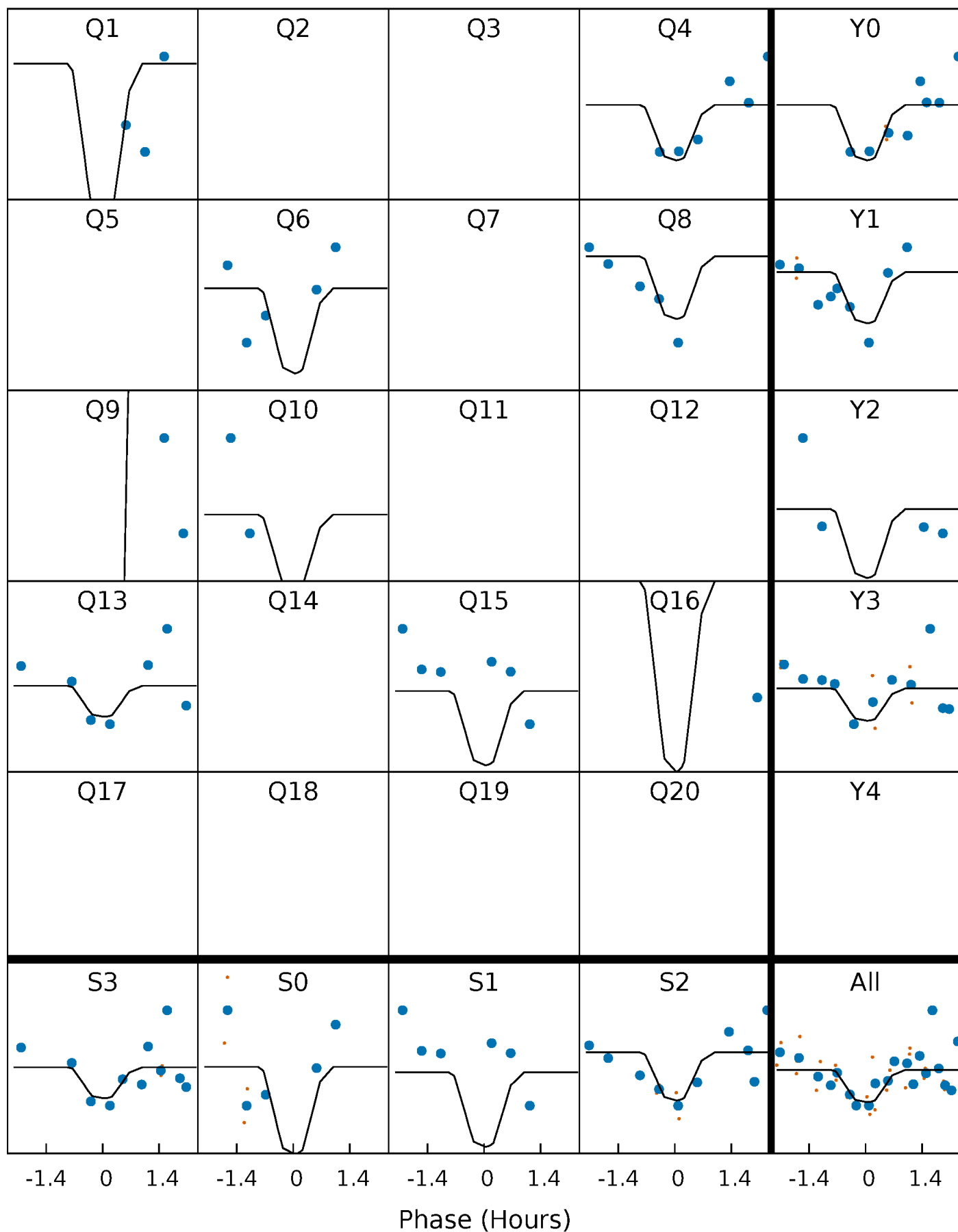
PDC Quarter-Phased Transit Curves

TCE 007032001-09 P= 33.353667 Days $T_0=155.869780$ (BKJD)



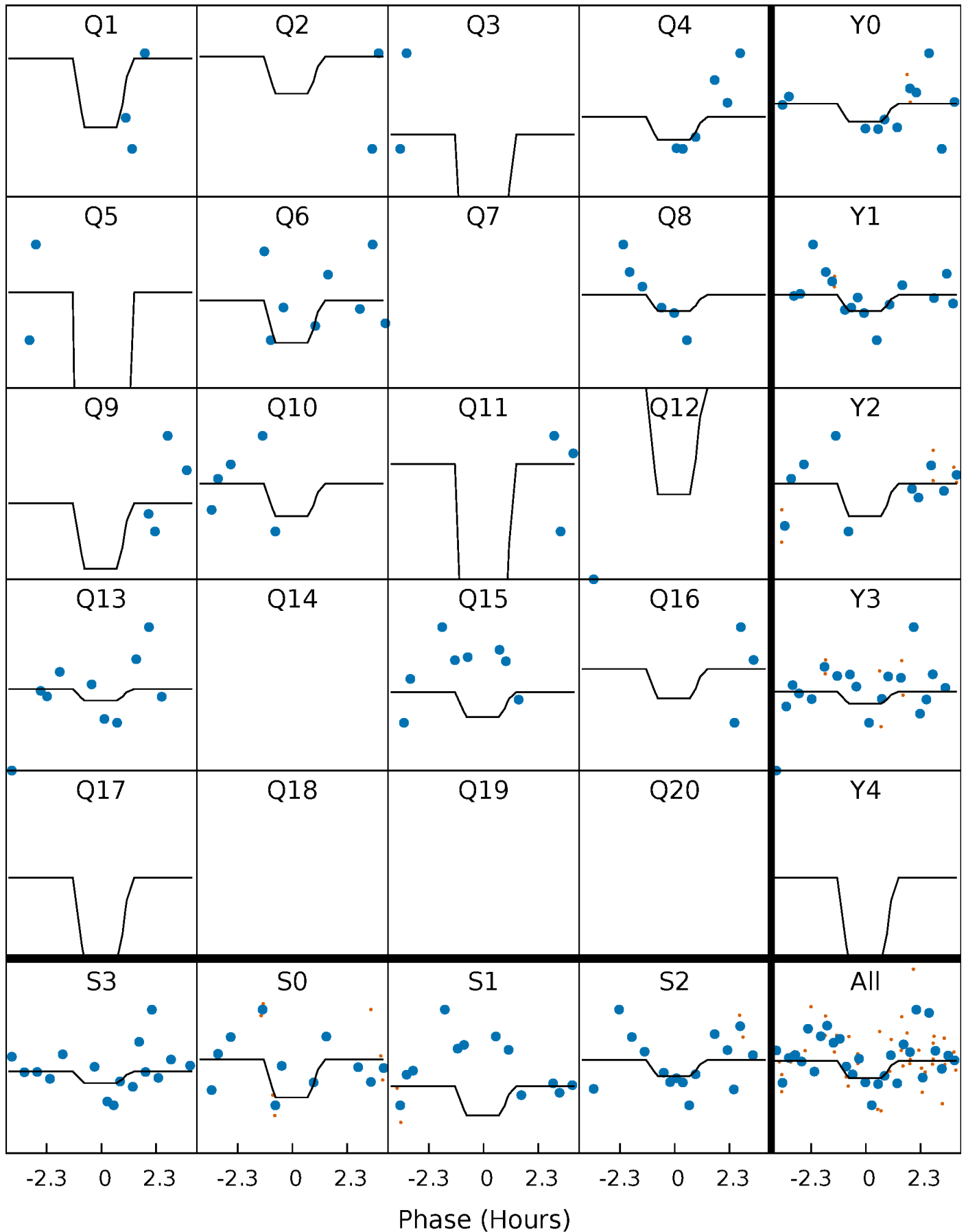
DV Quarter-Phased Transit Curves

TCE 007032001-09 P= 33.353667 Days $T_0=155.869780$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

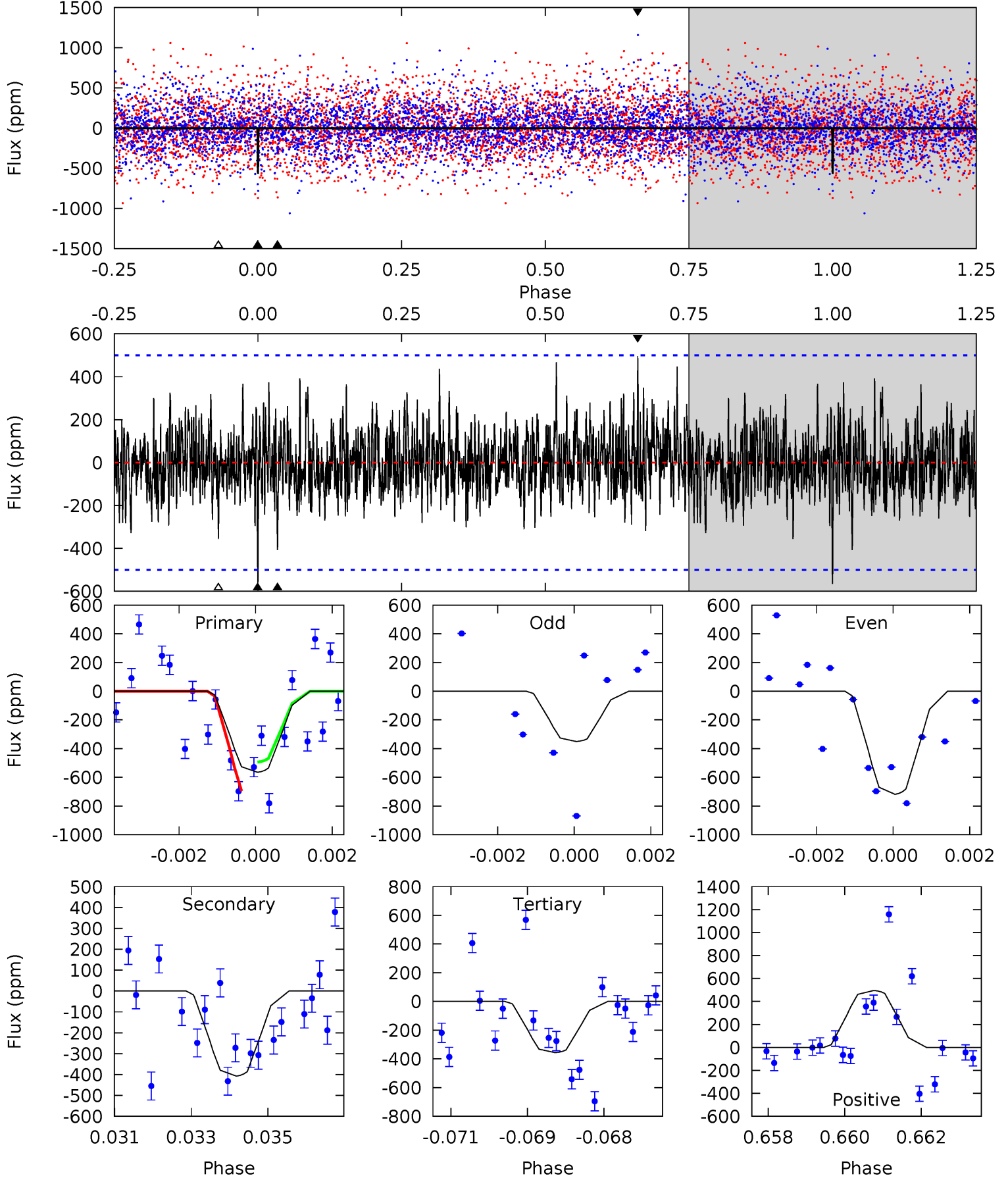
TCE 007032001-09 P= 33.353647 Days $T_0=155.853612$ (BKJD)



DV Model-Shift Uniqueness Test

007032001-09, P = 33.353667 Days, E = 122.516113 Days

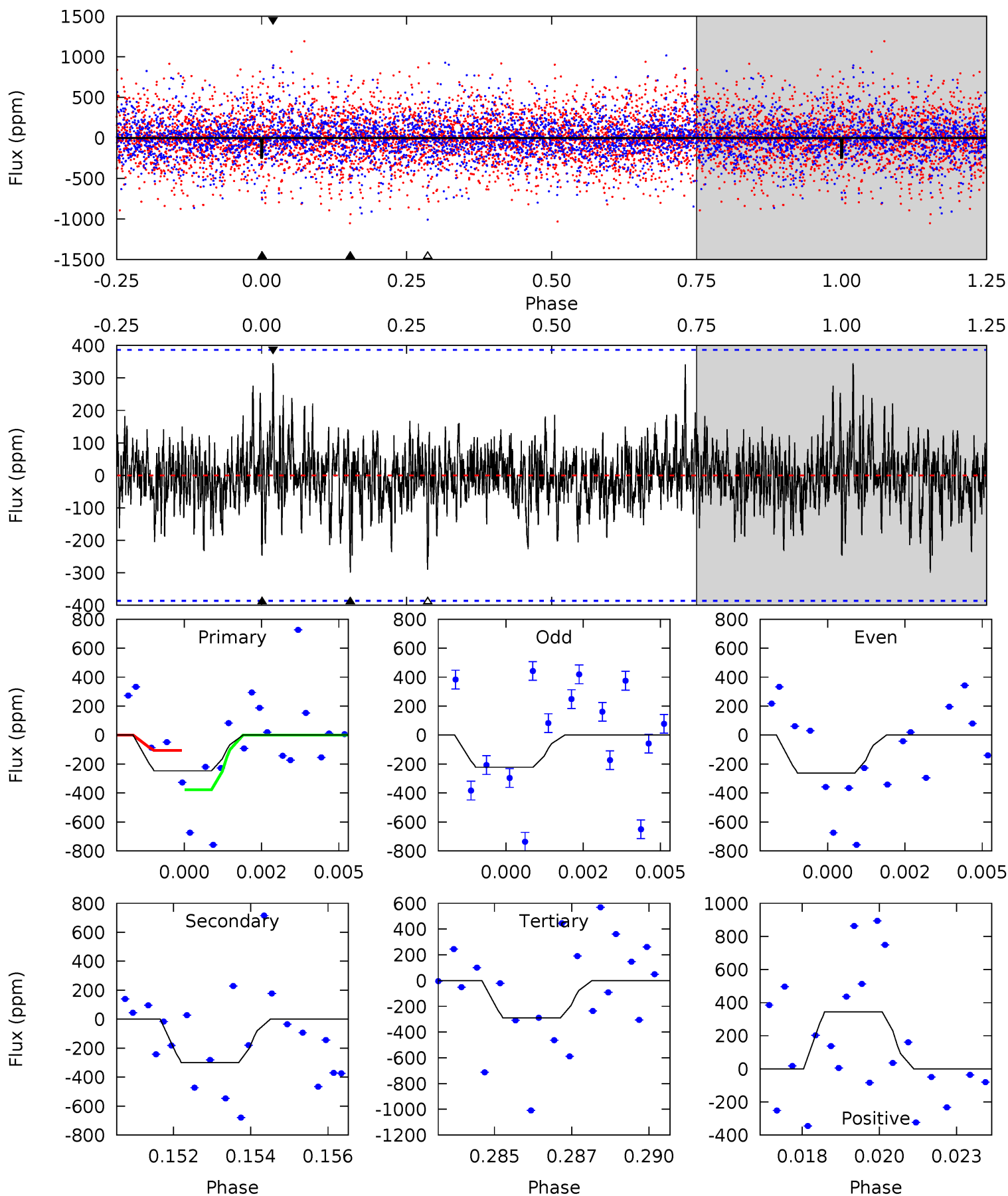
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.05	4.36	3.82	5.31	5.35	3.13	1.29	2.23	0.74	0.55	-0.94	2.00	0.68	0.47	0.98



Alt Model-Shift Uniqueness Test

007032001-09, P = 33.353647 Days, E = 122.499965 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.39	4.11	3.98	4.74	5.30	3.05	1.03	-0.59	-1.35	0.13	-0.63	0.26	0.48	0.54	1.81



Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-09 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-408 ± 93	$3.22^{+2.75}_{-2.08}$	722^{+37}_{-30}	4399^{+2946}_{-828}	758^{+5332}_{-548}
Alt.	-299 ± 73	$2.67^{+2.59}_{-1.79}$	723^{+40}_{-26}	4502^{+3209}_{-963}	809^{+7218}_{-603}

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 $A_{obs} \gg 1.0$

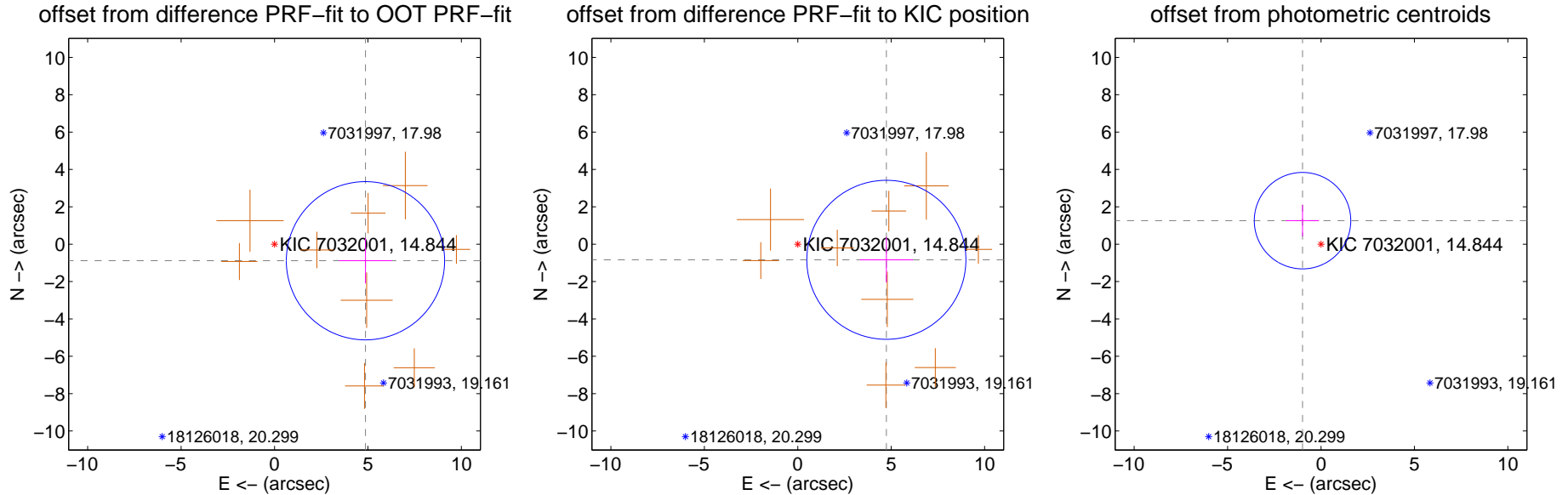
DV Centroid Data

Supplemental centroid analysis for 007032001-09. Kepler magnitude: 14.84. Transit SNR 9.80

There are 0 quarters with good PRF difference image offsets

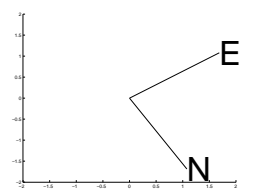
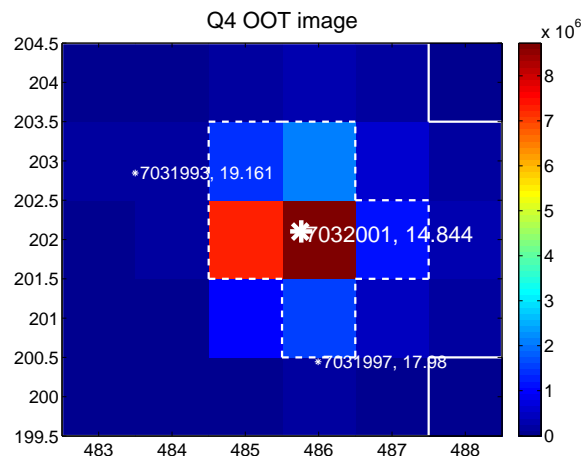
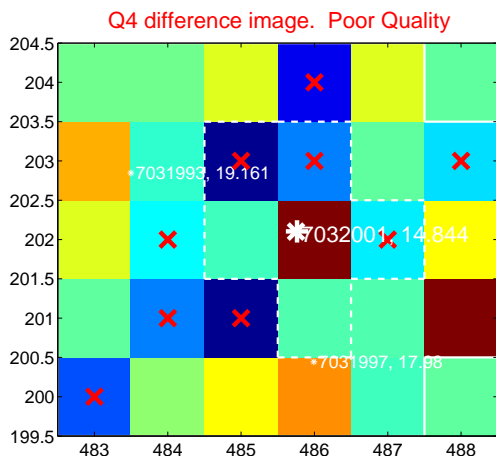
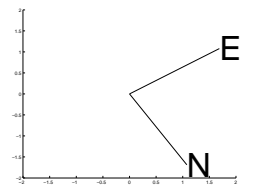
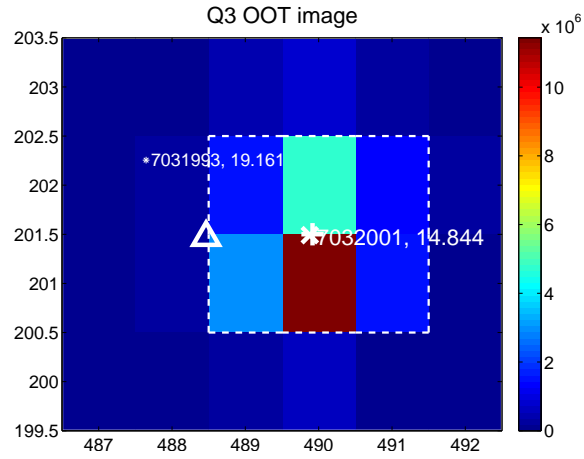
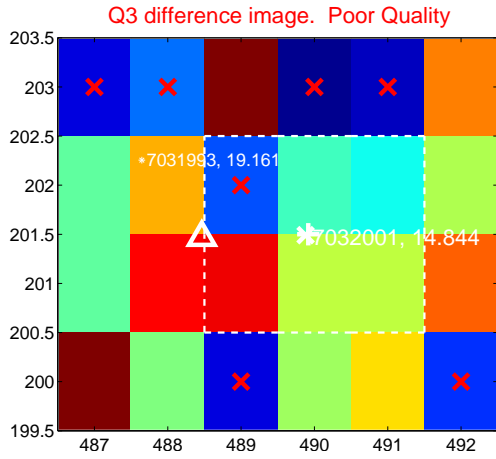
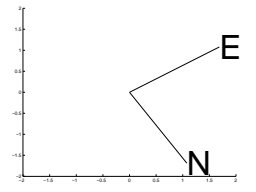
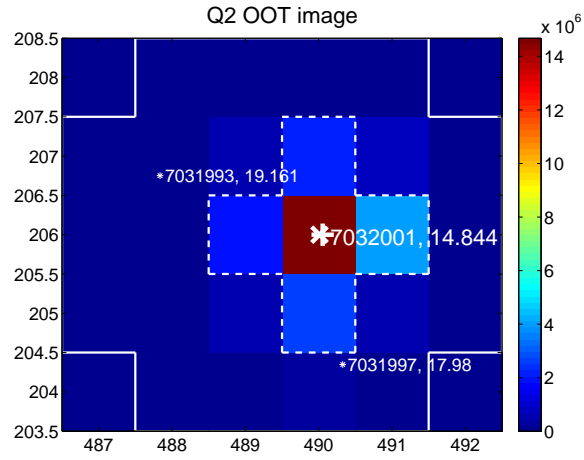
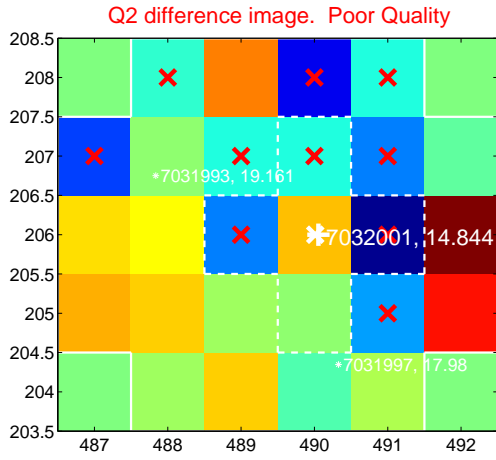
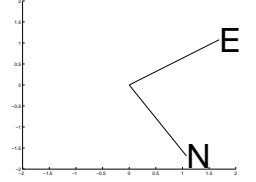
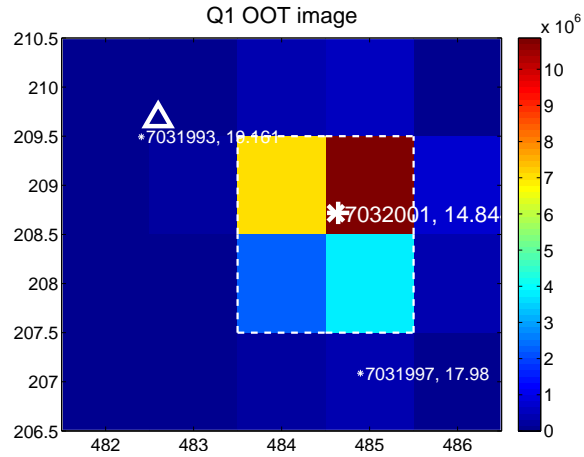
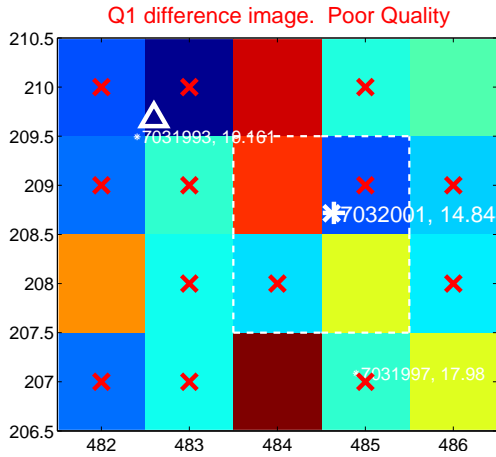
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.947 ± 1.412	3.50	-4.867 ± 1.418	-0.886 ± 1.218
PRF-fit source offset from KIC position	4.814 ± 1.419	3.39	-4.741 ± 1.424	-0.836 ± 1.223
photometric centroid source offset	1.60 ± 0.86	1.86	0.99 ± 0.88	1.26 ± 0.85

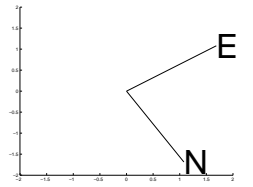
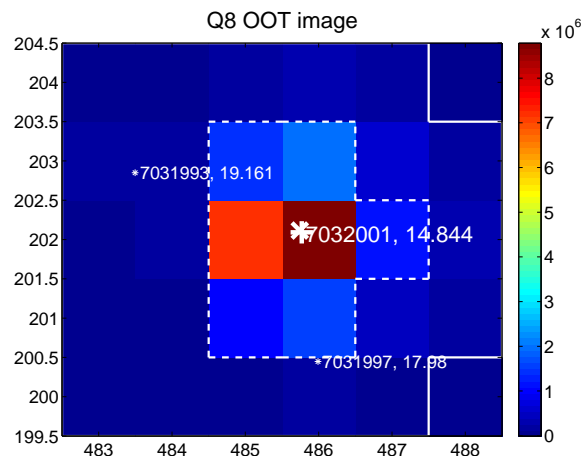
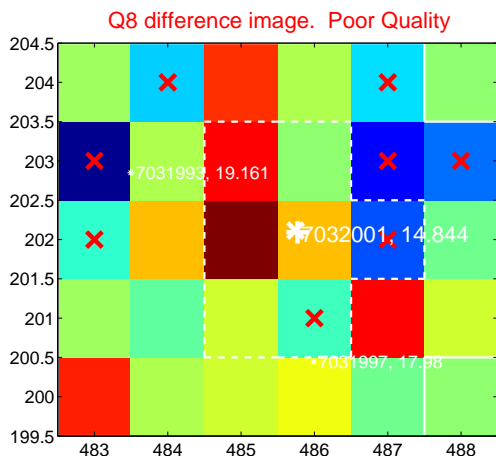
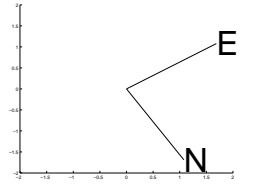
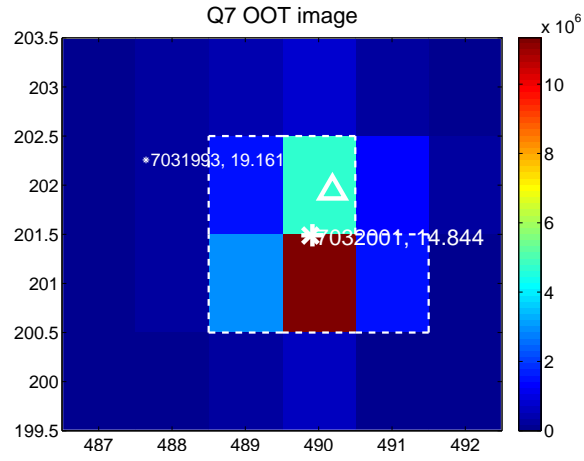
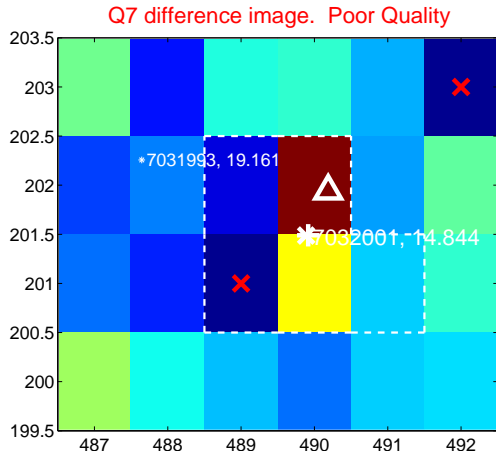
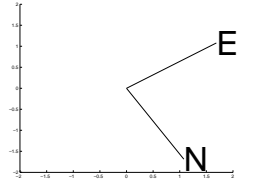
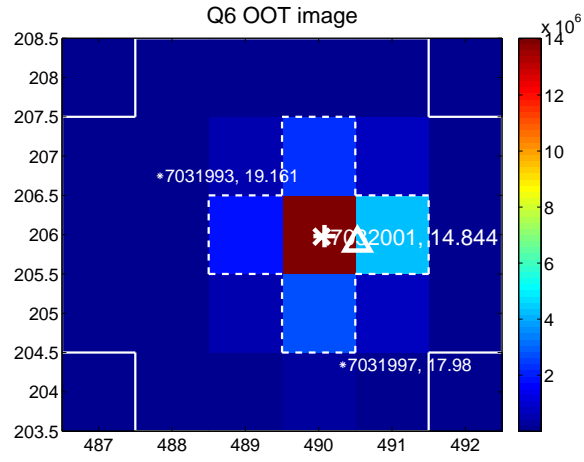
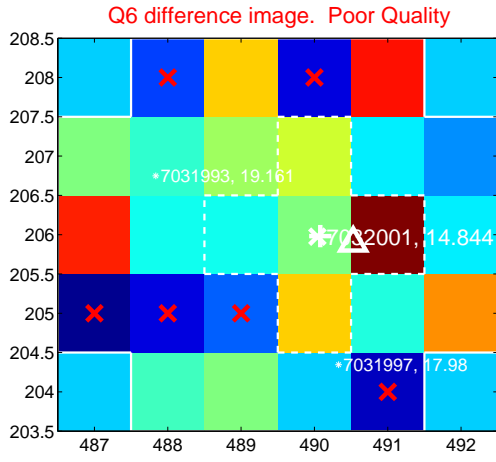
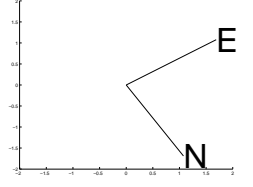
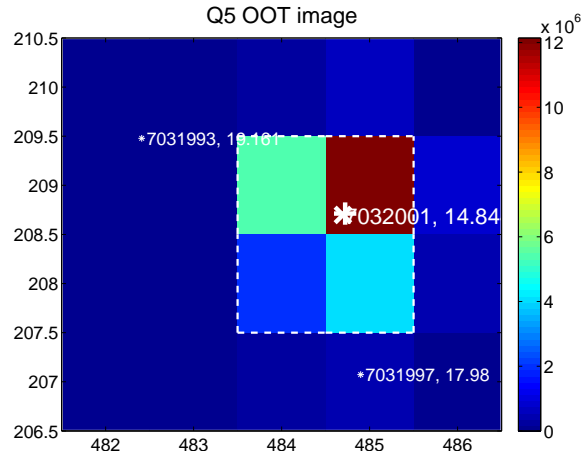
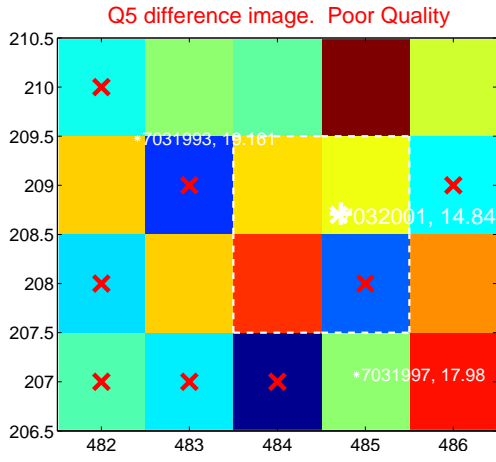


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

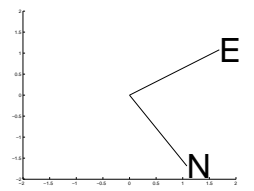
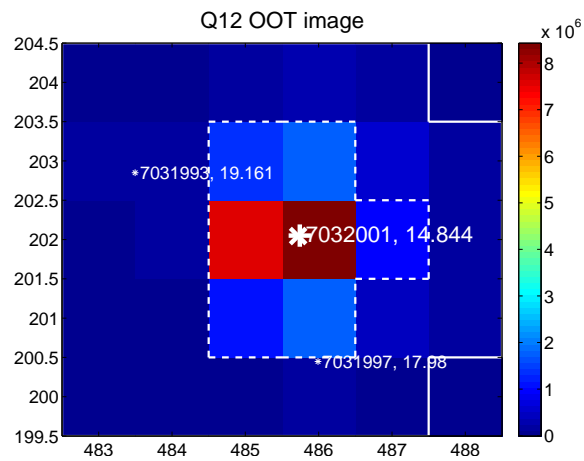
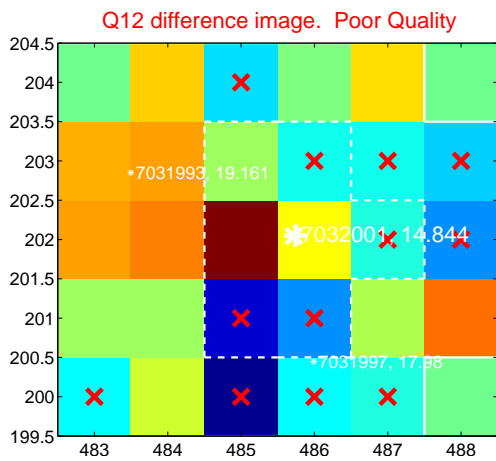
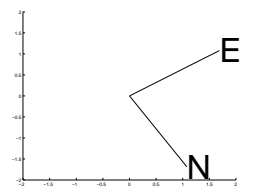
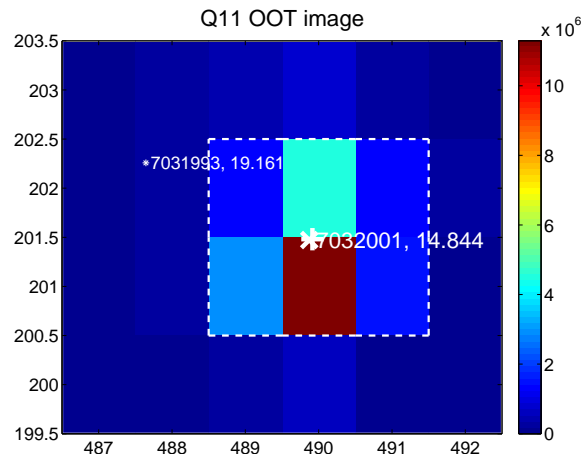
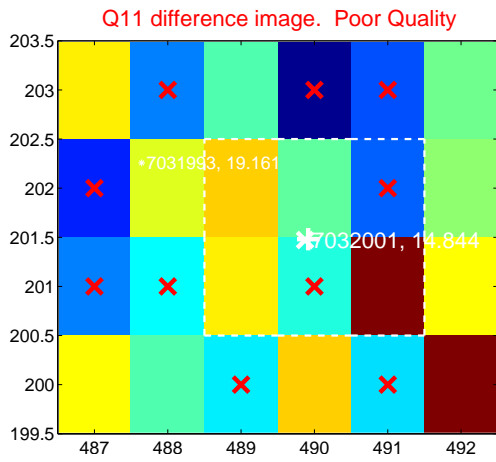
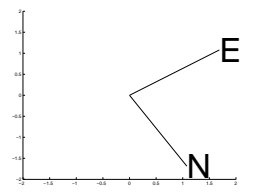
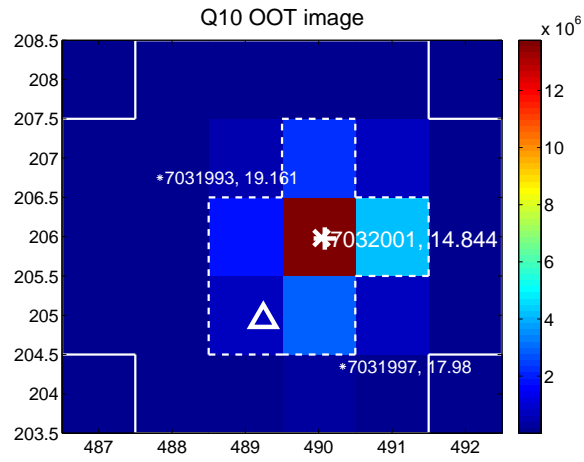
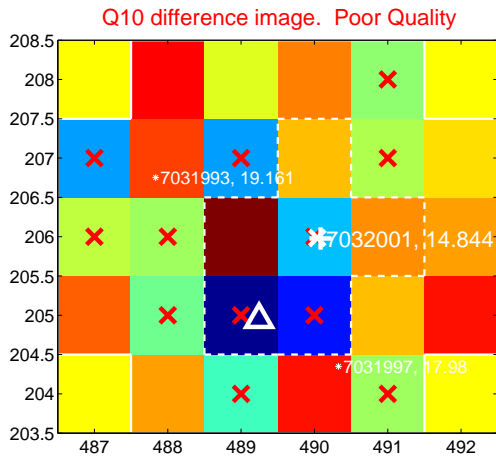
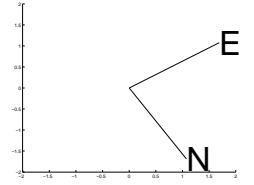
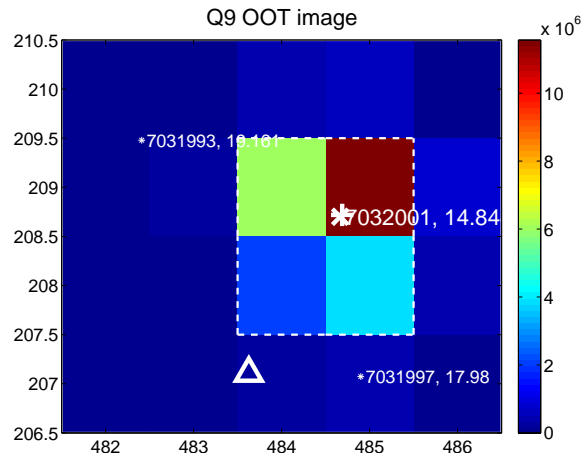
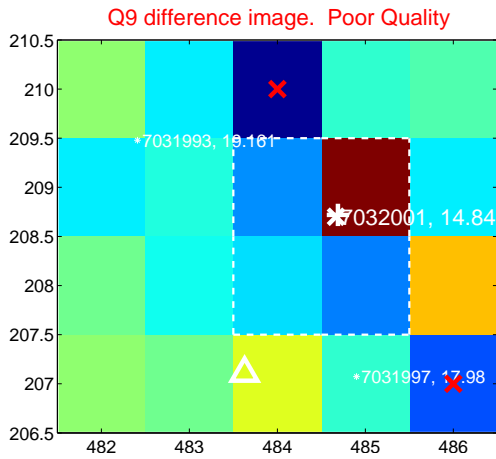
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



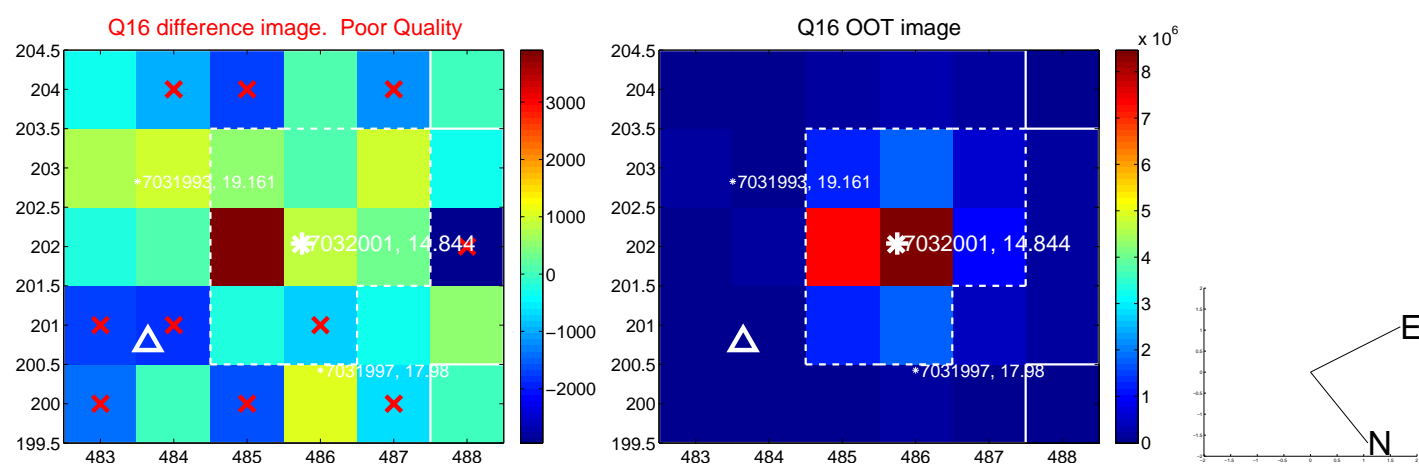
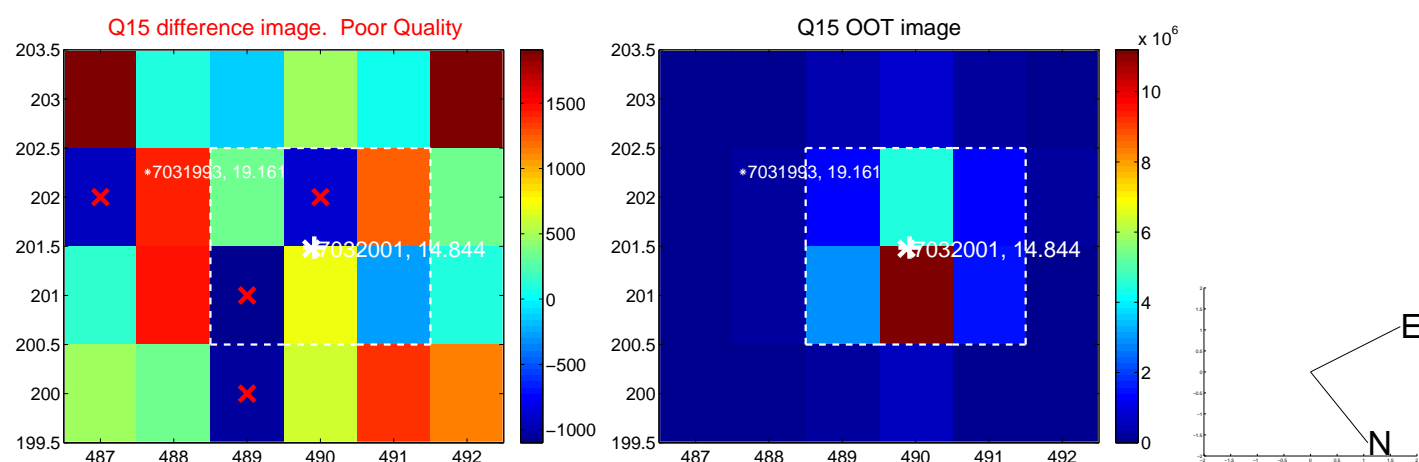
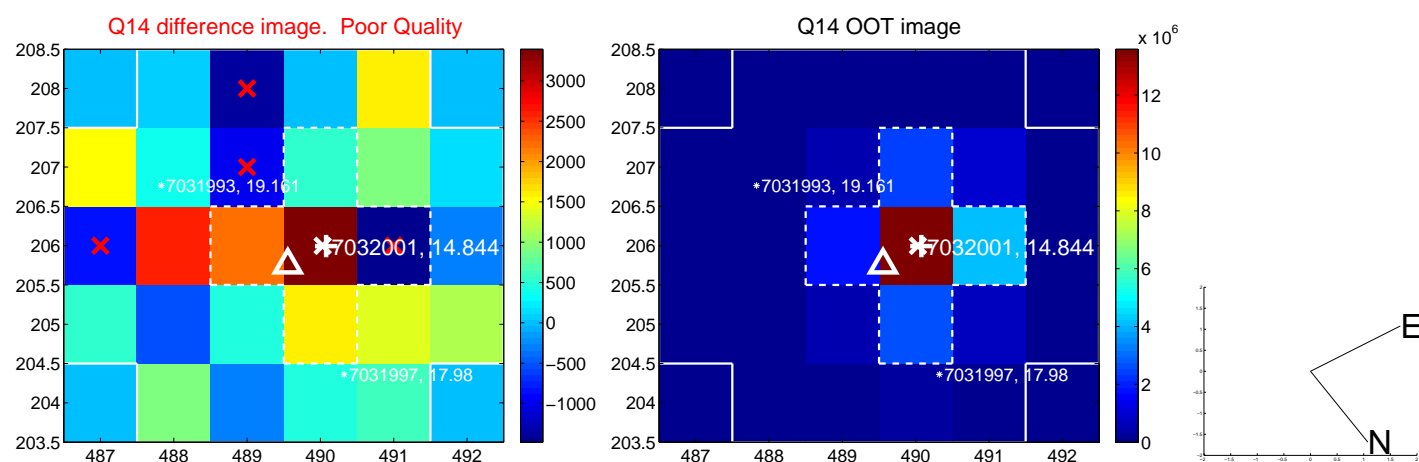
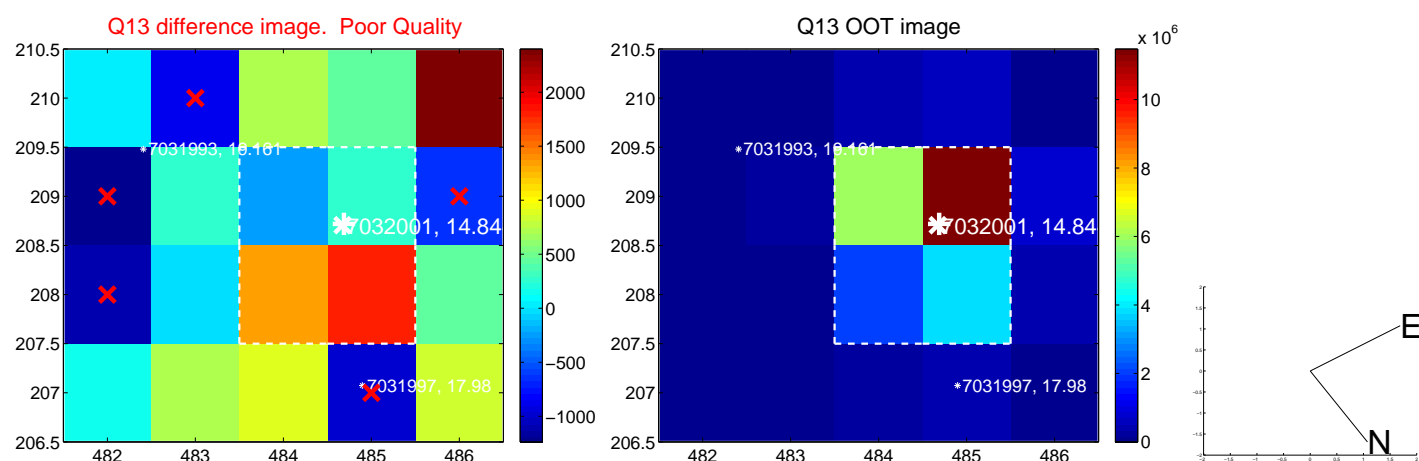
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



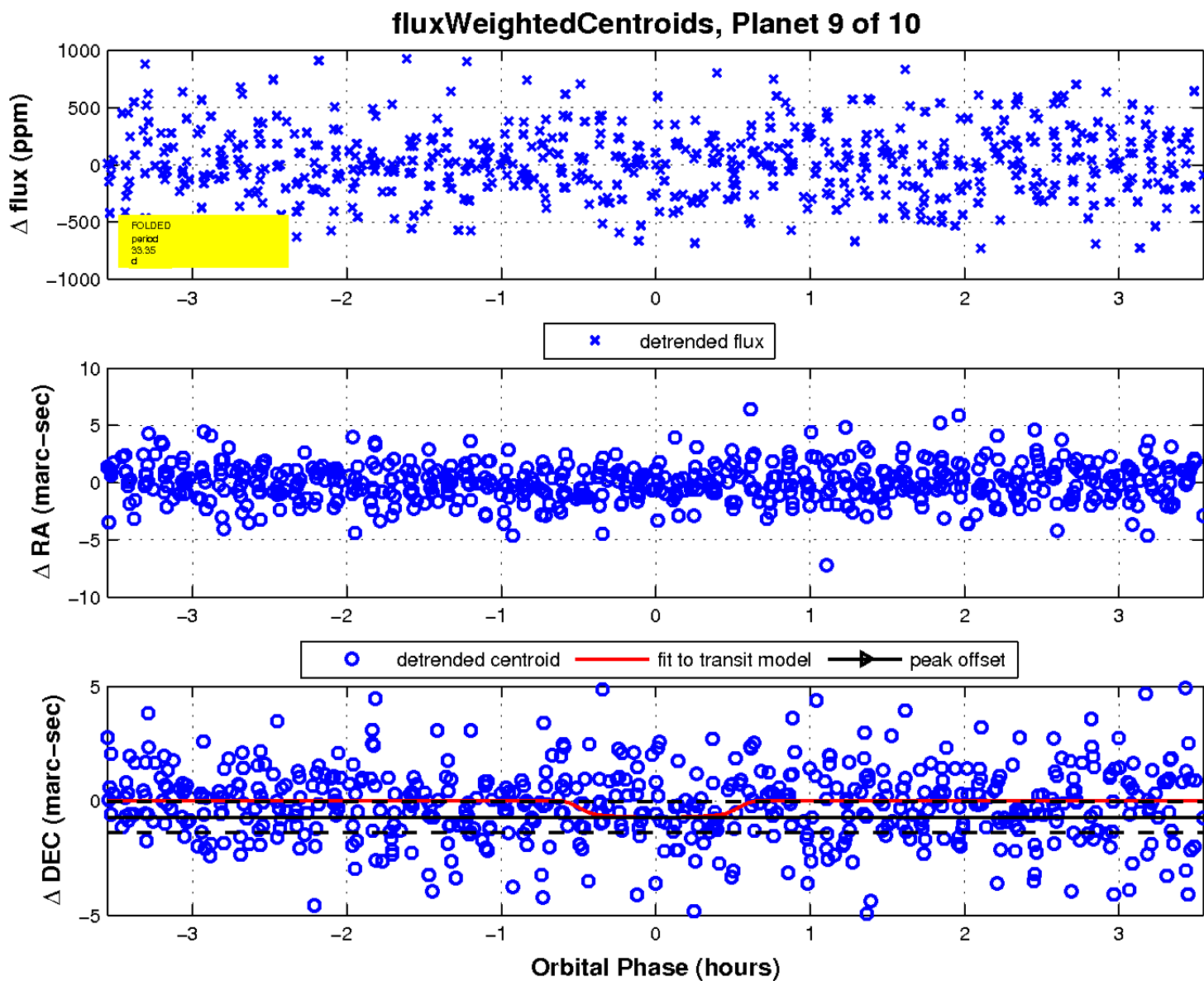
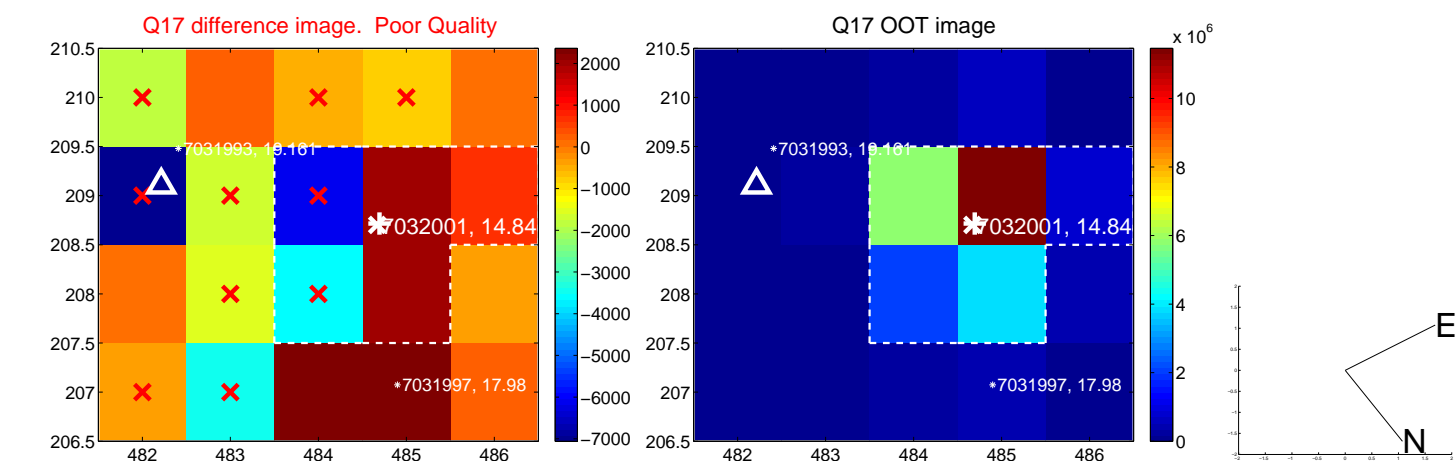
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

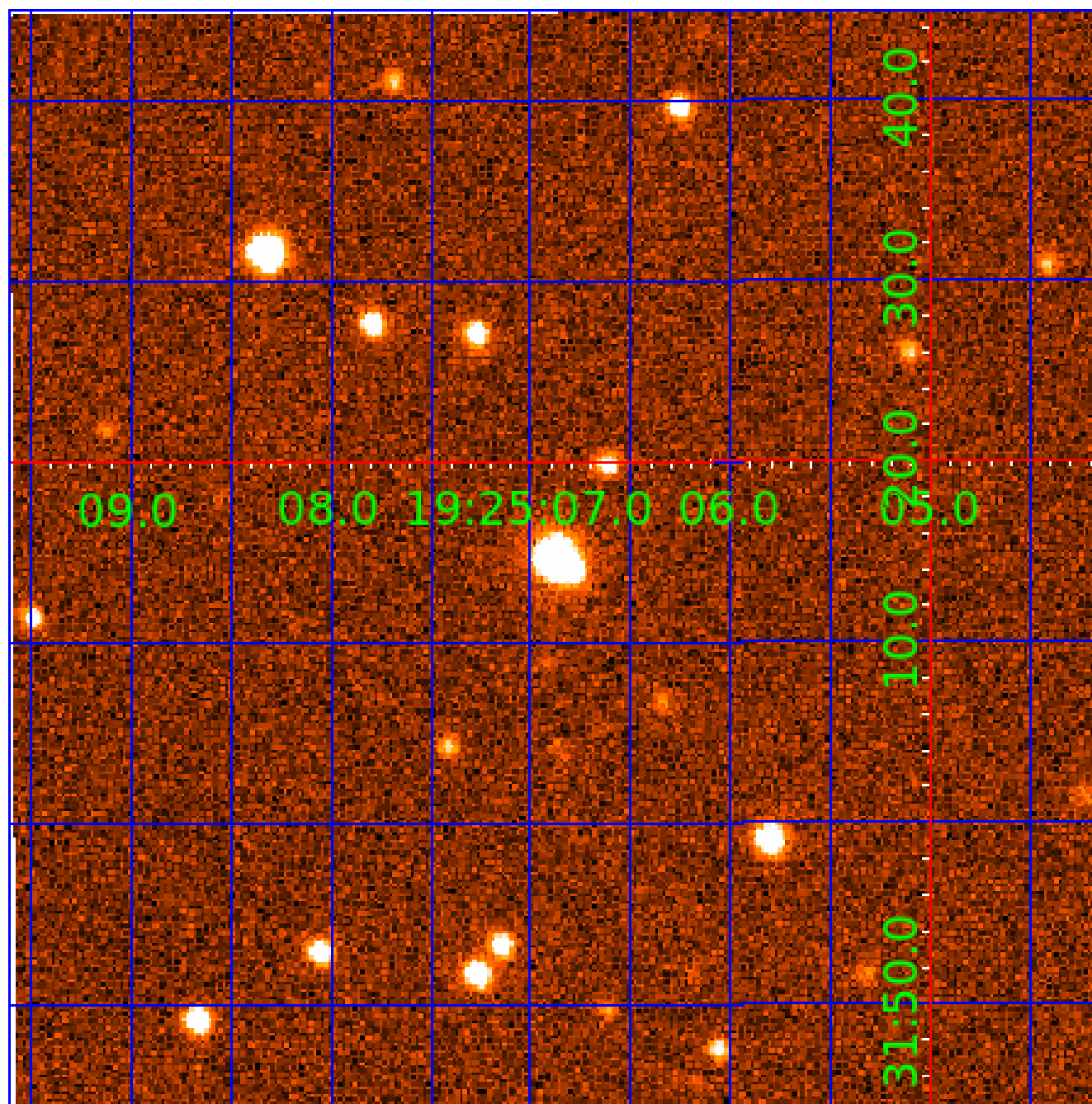


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007032001

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})
007032001-01	OBS	4518.01	0.566784	131.826593	33.2	3.914	11.7	12.1	0.76	5776	0.47	3608.22
007032001-02	OBS	No	46.800195	139.565379	726.9	3.224	12.1	11.9	0.76	5776	3.58	10.04
007032001-03	OBS	No	23.065248	146.679429	684.1	1.445	12.7	12.1	0.76	5776	2.35	25.78
007032001-04	OBS	No	38.861819	137.804650	462.8	1.607	9.8	9.5	0.76	5776	1.87	12.86
007032001-05	OBS	No	40.479251	153.272365	538.1	1.376	10.2	8.2	0.76	5776	1.76	12.18
007032001-06	OBS	No	29.835786	133.751619	1238.4	1.500	10.0	-1.0	0.76	5776	2.67	18.29
007032001-07	OBS	No	45.266228	165.110758	653.4	0.898	9.5	9.5	0.76	5776	1.95	10.49
007032001-08	OBS	No	46.799982	165.484445	569.1	1.520	8.7	9.0	0.76	5776	1.83	10.04
007032001-09	OBS	No	33.353667	155.869780	631.7	1.184	9.7	9.8	0.76	5776	2.22	15.76
007032001-10	OBS	No	29.550491	147.727849	489.3	1.270	8.7	10.2	0.76	5776	1.68	18.52

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007032001-01	OBS	FP	0.00	1	0	1	1	LPP_DV—MOD_NONUNIQ_ALT—HALO_GHOST—EPHEM_MATCH
007032001-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—HALO_GHOST
007032001-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007032001-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_TER_DV—HALO_GHOST
007032001-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
007032001-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—NO_FITS—CENT_NOFITS
007032001-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—CENT_FEW_DIFFS
007032001-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—SAME_NTL_PERIOD—CENT_FEW_DIFFS
007032001-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
007032001-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—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.

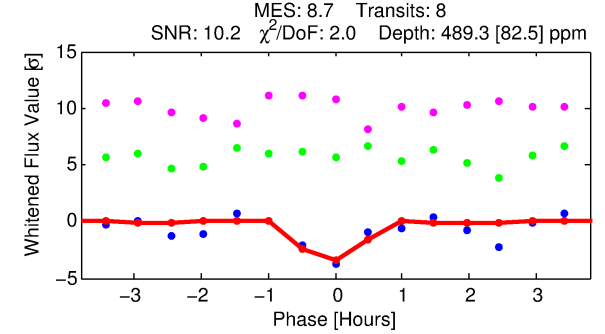
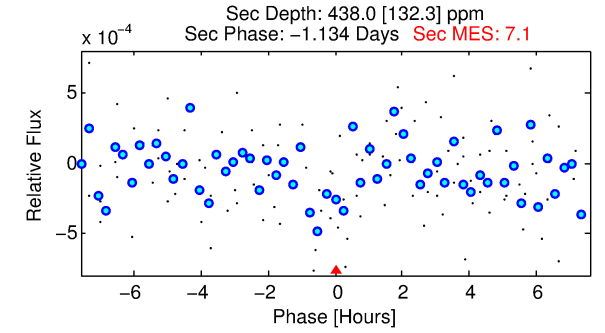
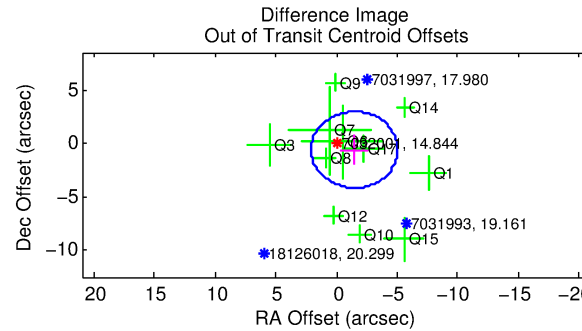
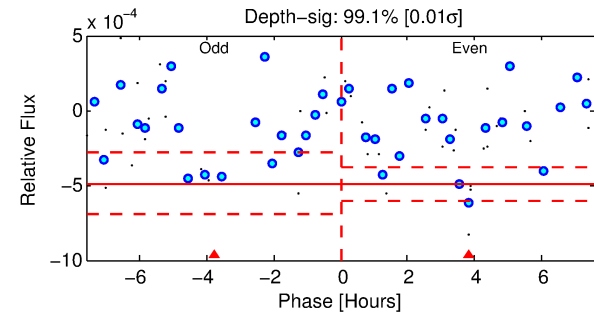
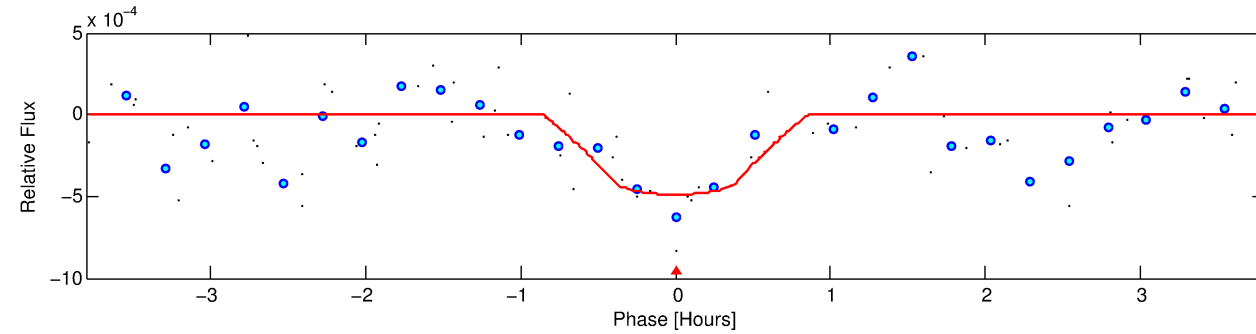
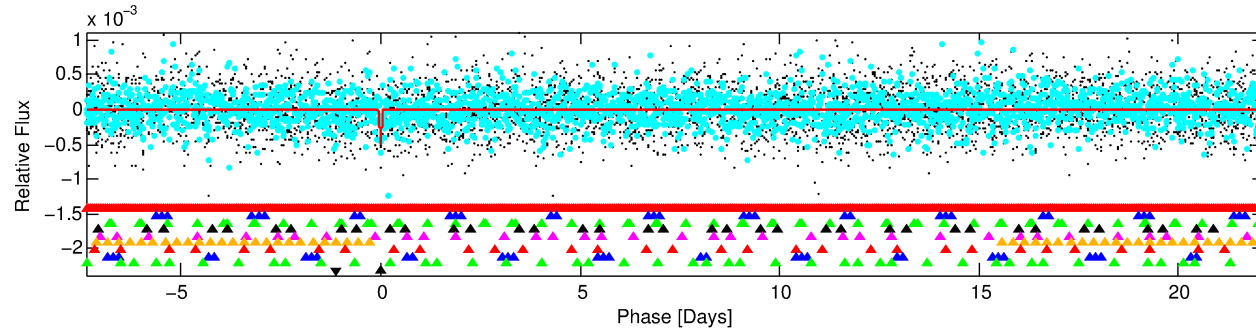
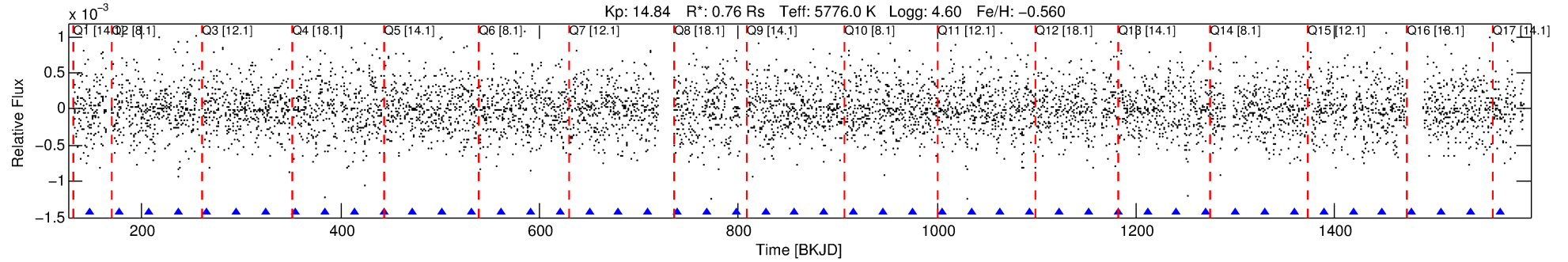
Ephemeris Match Information For 007032001-10

No Significant Match Found

DV One-Page Summary

KIC: 7032001 Candidate: 10 of 10 Period: 29.550 d
KOI: K04518 Corr: No Ephemeris Match

Kp: 14.84 R*: 0.76 Rs Teff: 5776.0 K Logg: 4.60 Fe/H: -0.560



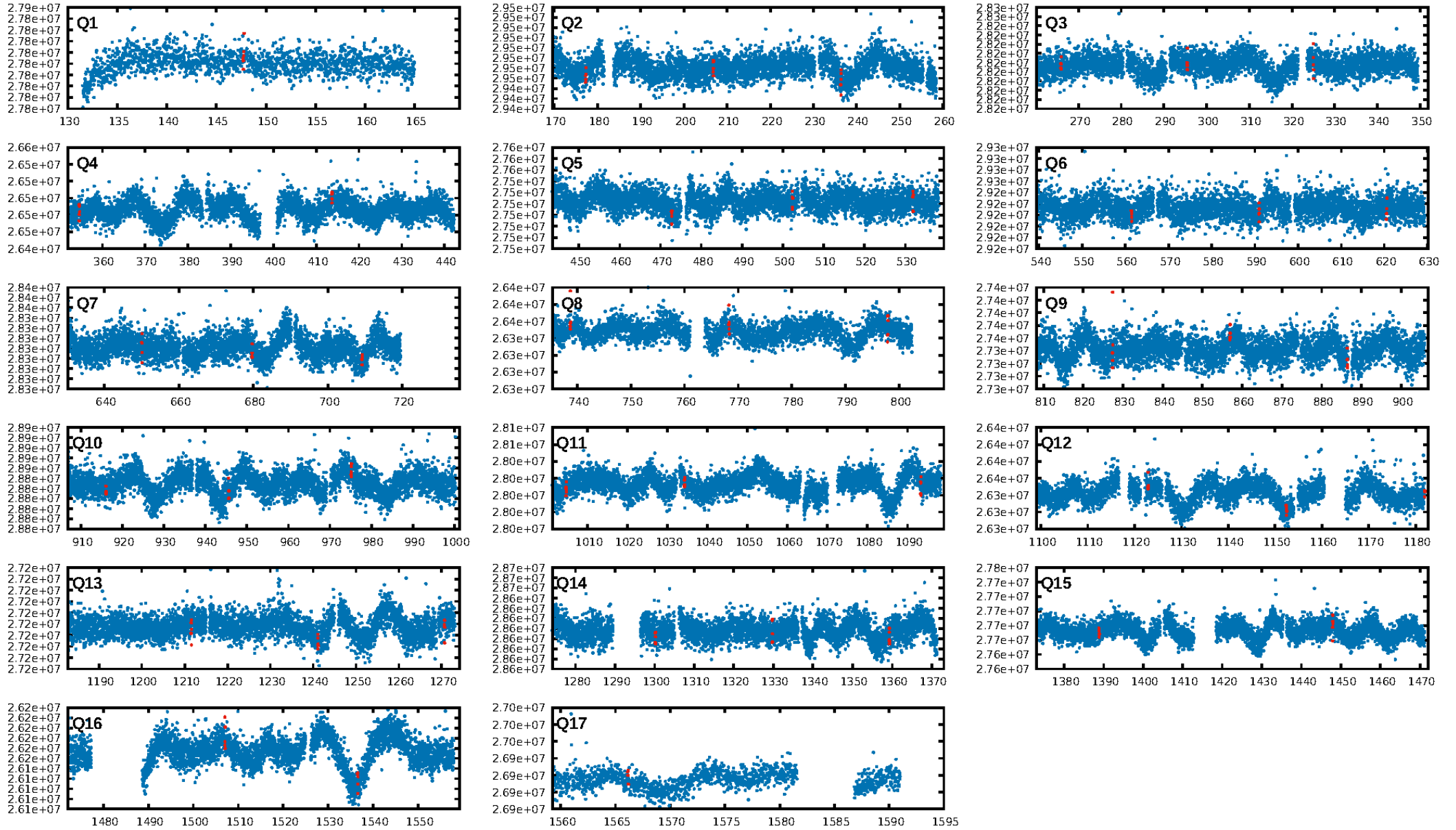
DV Fit Results:

Period = 29.55049 [0.00023] d
Epoch = 147.7278 [0.0071] BKJD
Rp/R* = 0.0203 [0.0404]
a/R* = 180.41 [1718.25]
b = 0.11 [89.81]
Seff = 18.53 [5.85]
Teq = 529 [42] K
Rp = 1.68 [3.37] Re
a = 0.1759 [0.0363] AU
Ag = 2635.68 [10533.58] [0.25σ]
Teffp = 5860 [5841] K [0.91σ]

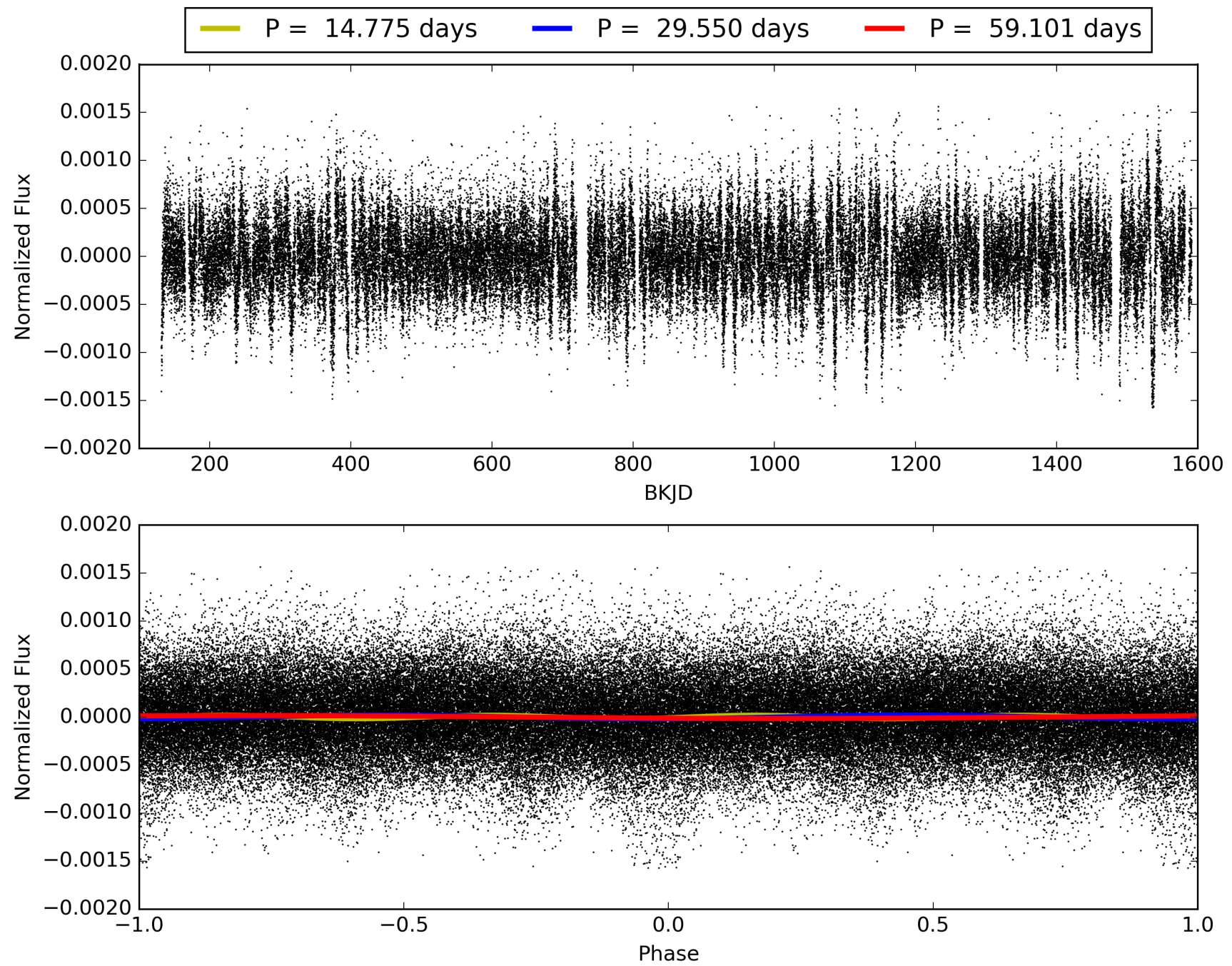
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [80.90σ]
LongPeriod-sig: 100.0% [3.48σ]
ModelChiSquare2-sig: 9.4%
ModelChiSquareGof-sig: 82.3%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -17.66
Centroid-sig: N/A
Centroid-so: 2.356 arcsec [2.34σ]
OotOffset-rm: 1.596 arcsec [1.34σ]
KicOffset-rm: 1.392 arcsec [1.31σ]
OotOffset-st: 3/3/2/3 [11]
KicOffset-st: 3/3/2/3 [11]
DiffImageQuality-fgm: 0.00 [0/11]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 007032001-10, PDC Light Curves

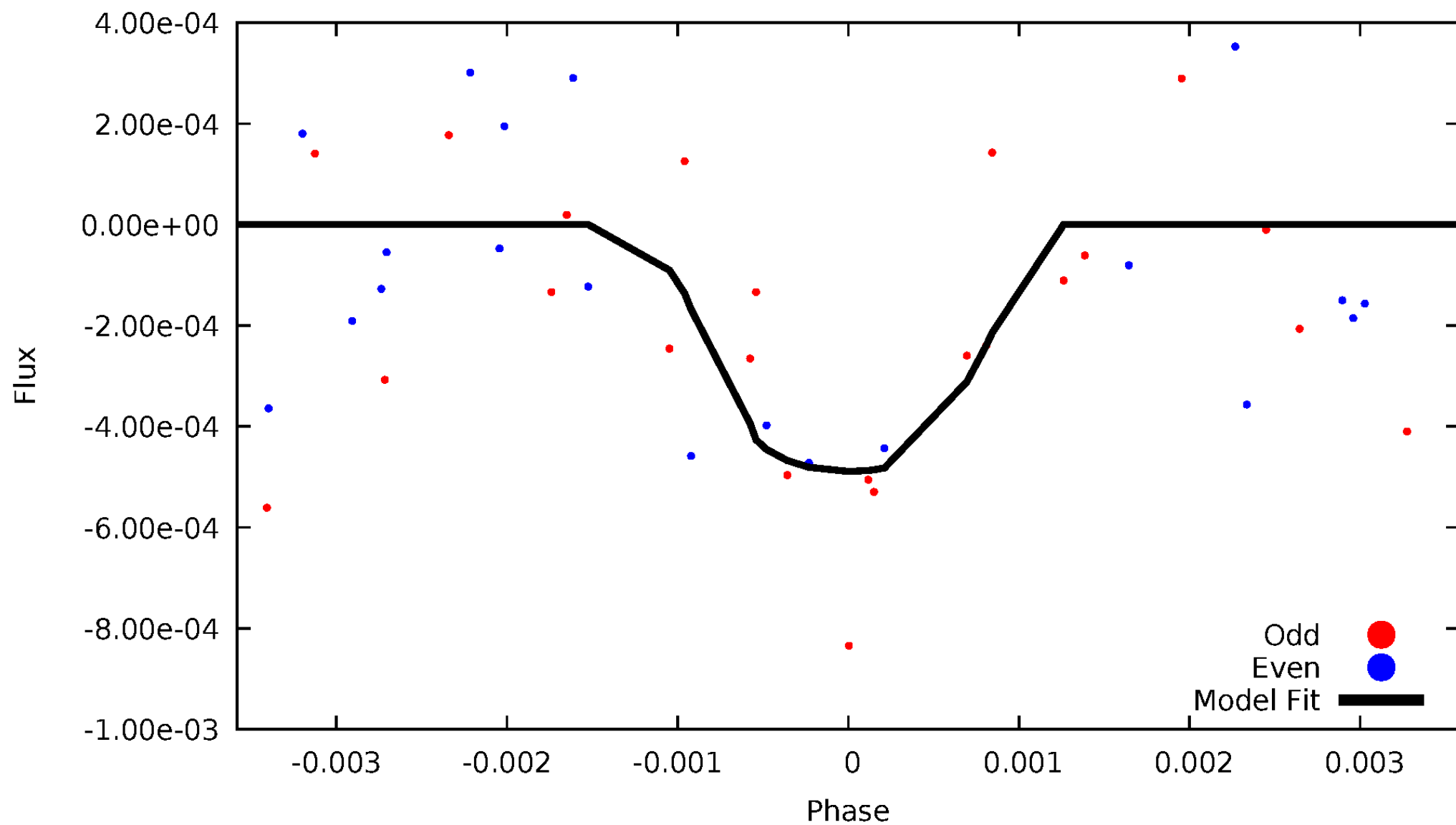


TCE 007032001-10



DV Odd/Even

TCE 007032001-10

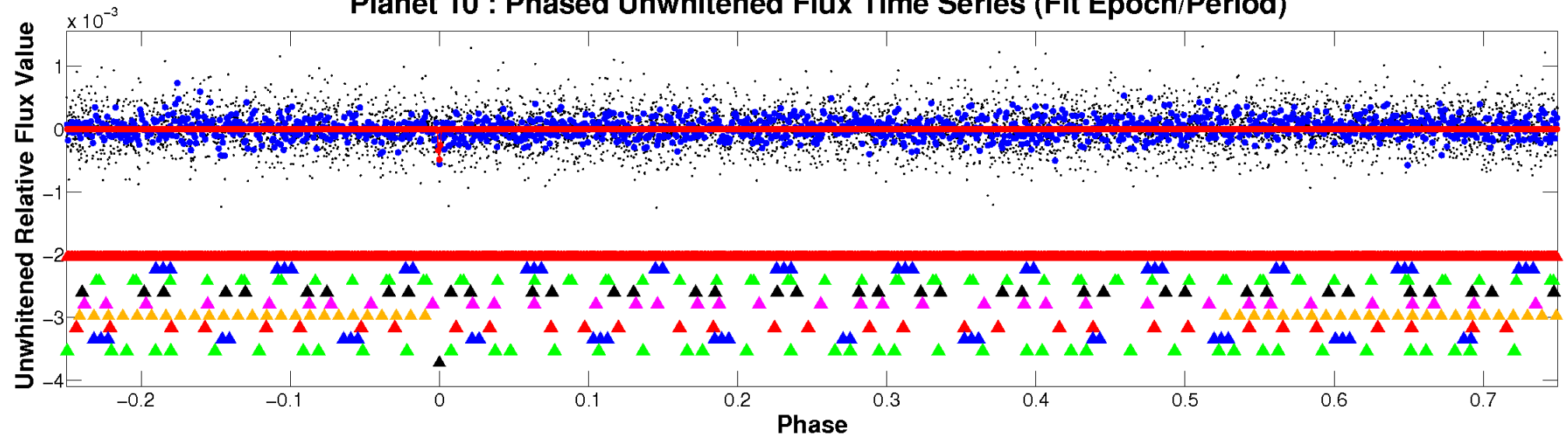


ALT Odd/Even

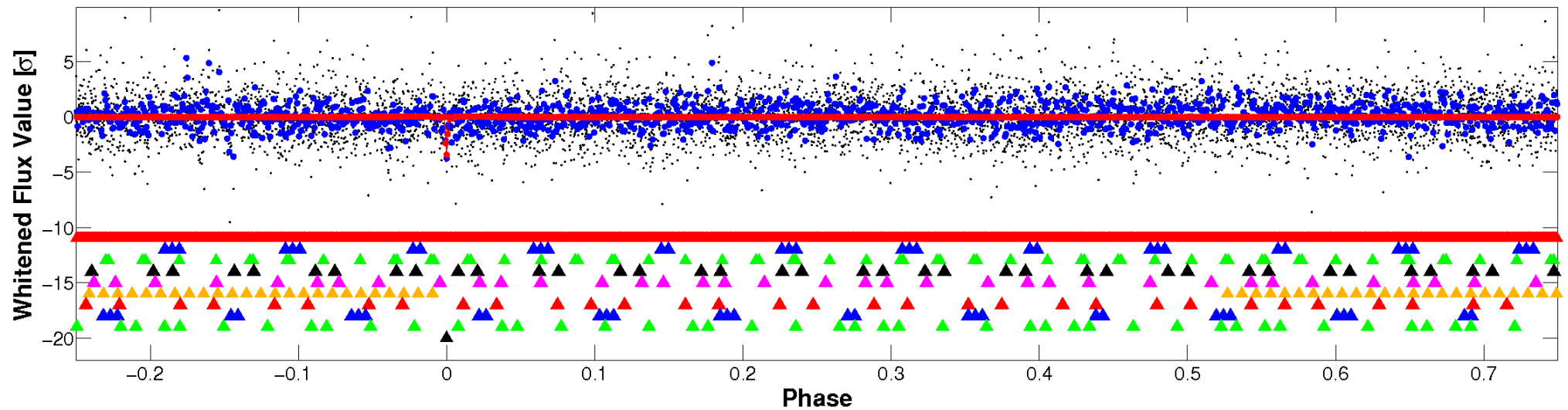
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

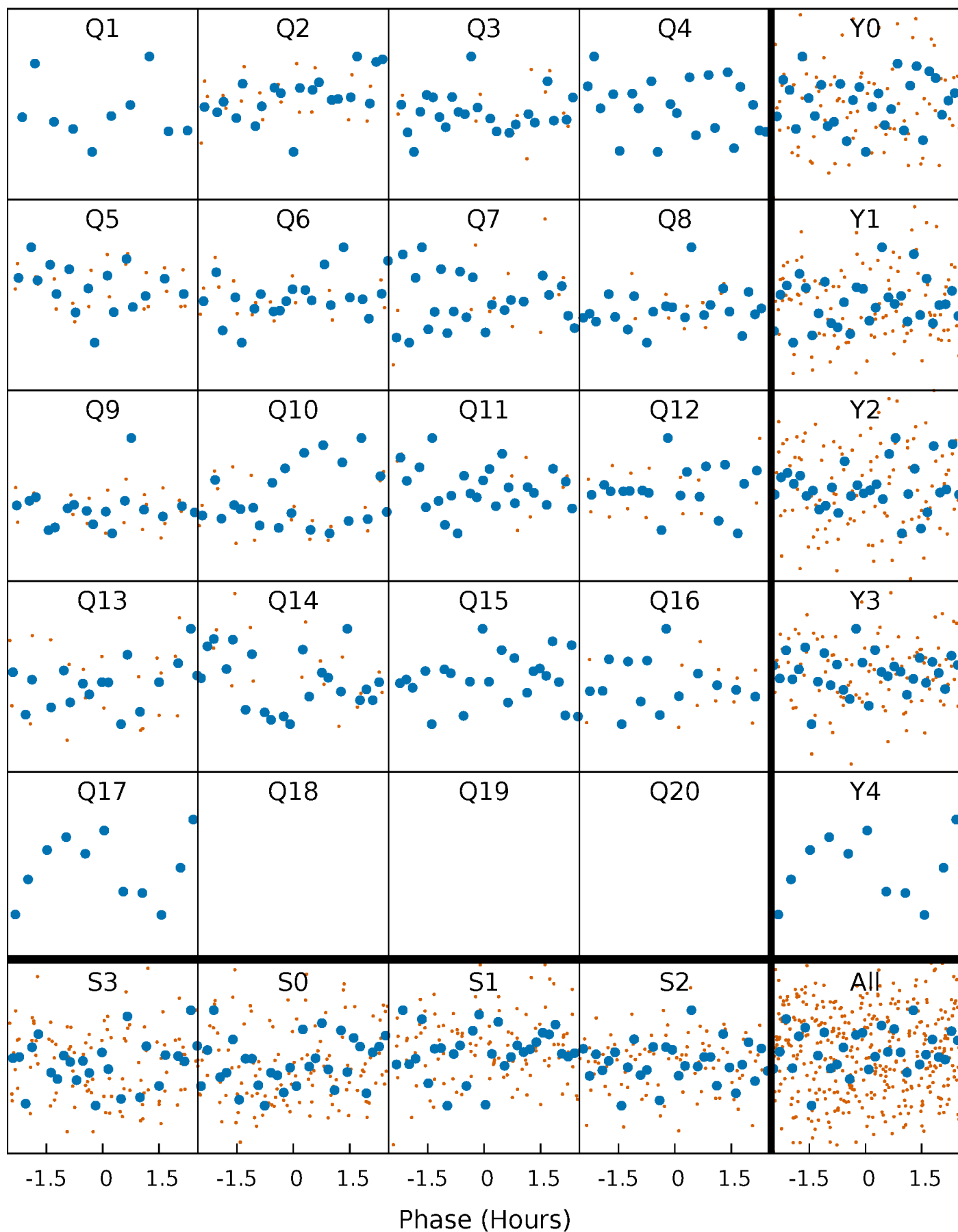


Planet 10 : Phased Whitened Flux Time Series (Fit Epoch/Period)



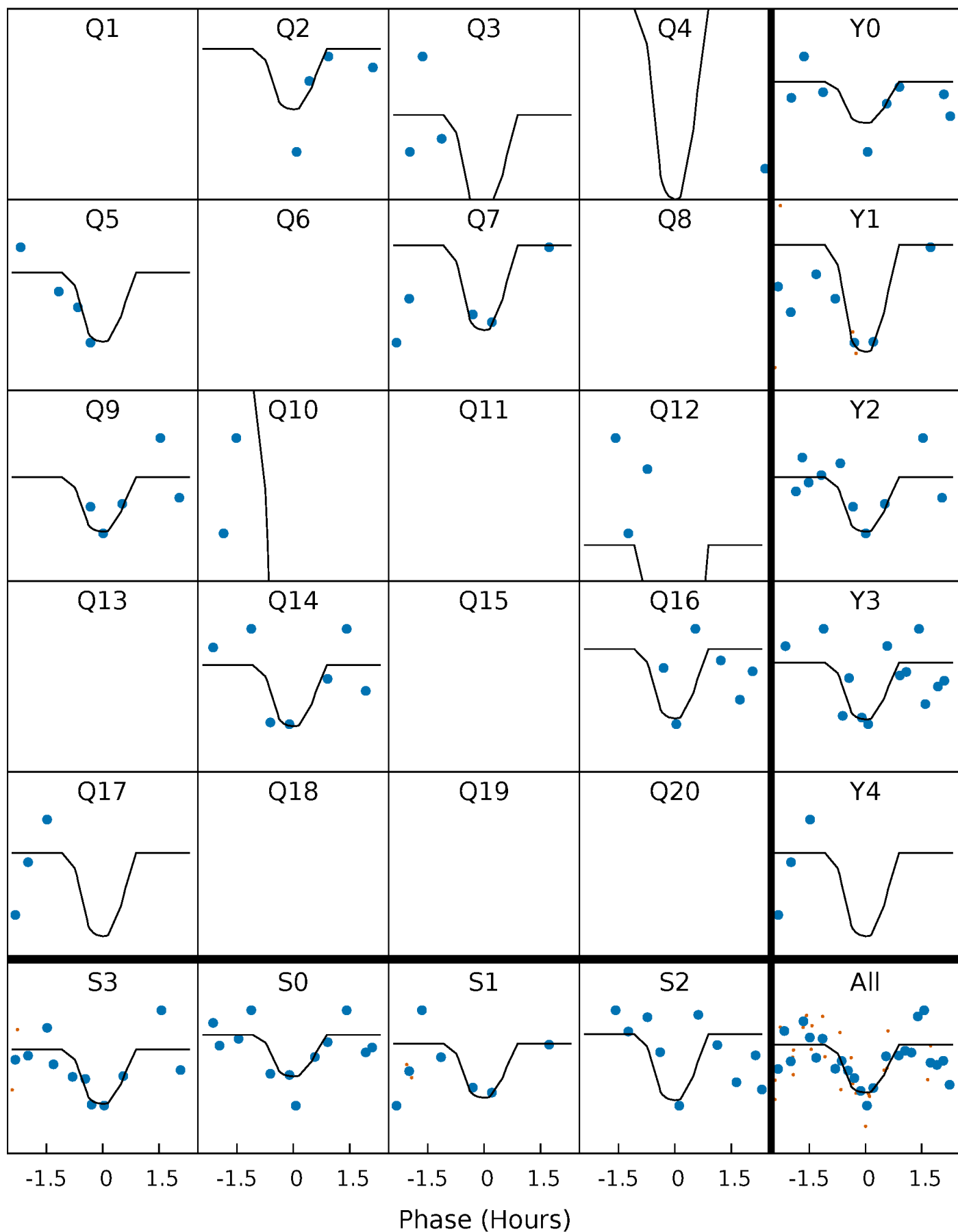
PDC Quarter-Phased Transit Curves

TCE 007032001-10 P= 29.550491 Days $T_0=147.727849$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007032001-10 P= 29.550491 Days $T_0=147.727849$ (BKJD)

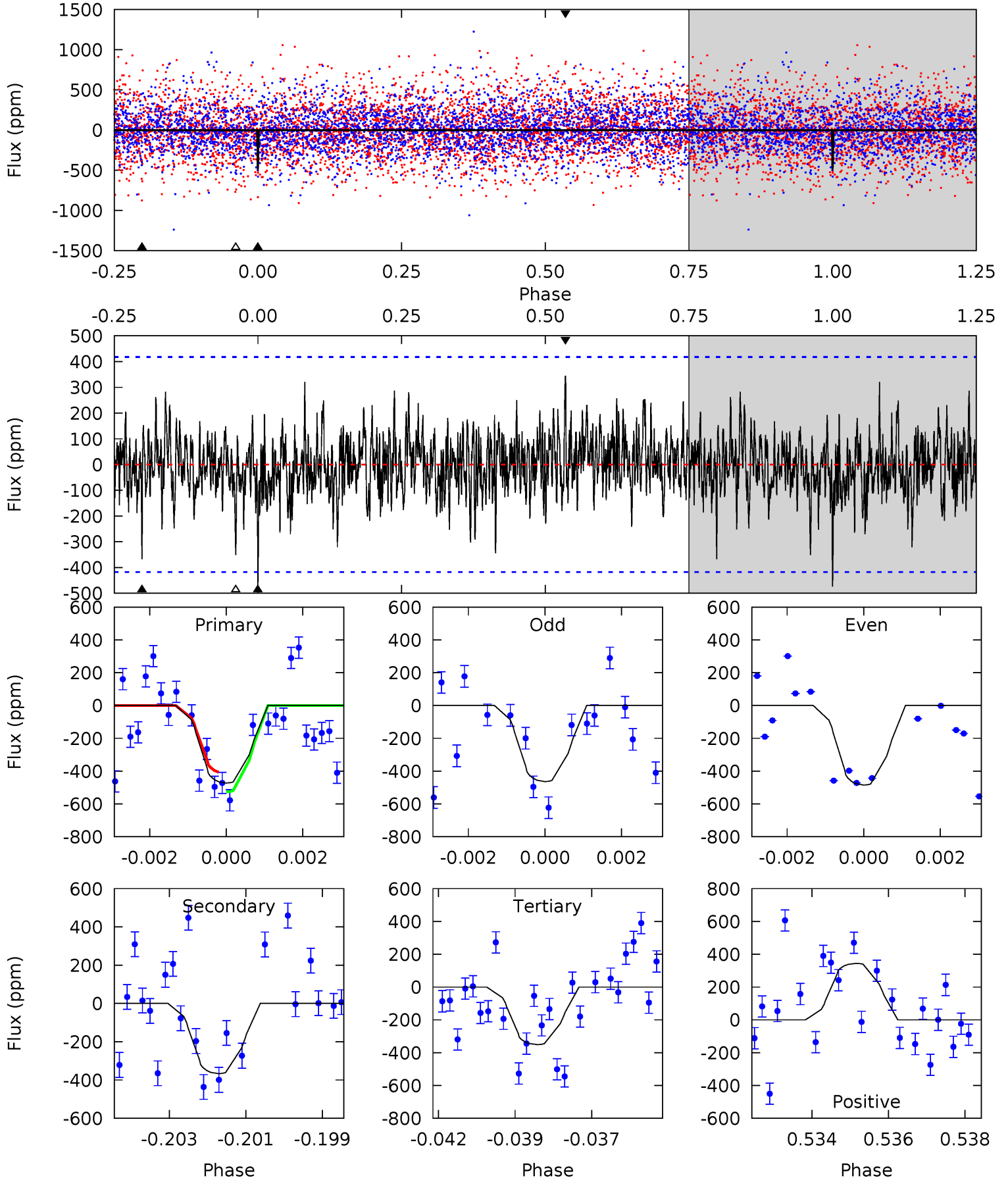


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007032001-10, P = 29.550491 Days, E = 118.177358 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.01	4.65	4.45	4.37	5.30	3.05	1.23	1.55	1.63	0.20	0.28	0.12	1.01	0.42	0.77



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007032001

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5776^{+157}_{-157}	$4.598^{+0.040}_{-0.160}$	$-0.560^{+0.300}_{-0.300}$	$0.758^{+0.189}_{-0.050}$	$0.832^{+0.085}_{-0.077}$	$2.693^{+0.435}_{-1.221}$
	+3%/-3%	+1%/-3%	+54%/-54%	+25%/-7%	+10%/-9%	+16%/-45%
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 007032001-10 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-367 ± 79	$2.96^{+3.08}_{-1.92}$	750^{+41}_{-28}	4455^{+2648}_{-1018}	684^{+4754}_{-529}
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

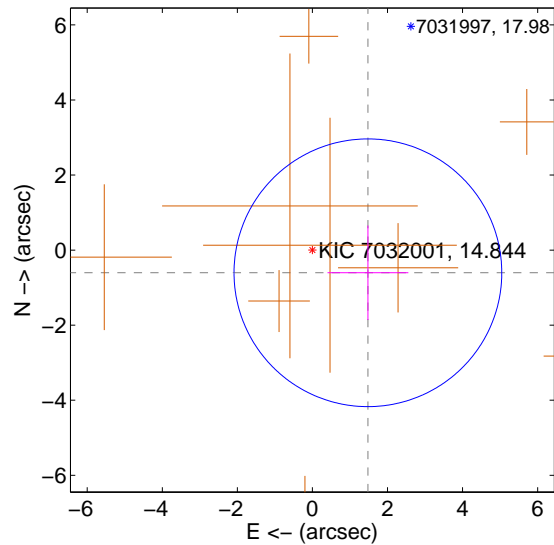
Supplemental centroid analysis for 007032001-10. Kepler magnitude: 14.84. Transit SNR 10.17

There are 0 quarters with good PRF difference image offsets

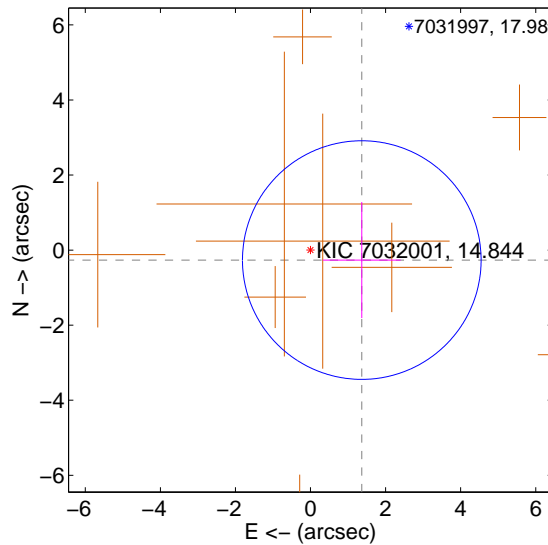
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.596 ± 1.189	1.34	-1.478 ± 1.077	-0.604 ± 1.260
PRF-fit source offset from KIC position	1.392 ± 1.060	1.31	-1.366 ± 1.037	-0.266 ± 1.545
photometric centroid source offset	2.36 ± 1.01	2.34	-2.18 ± 1.01	-0.89 ± 0.99

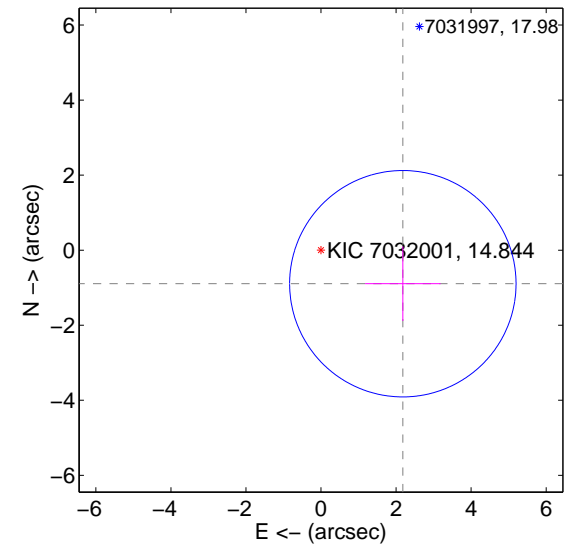
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

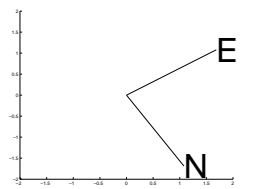
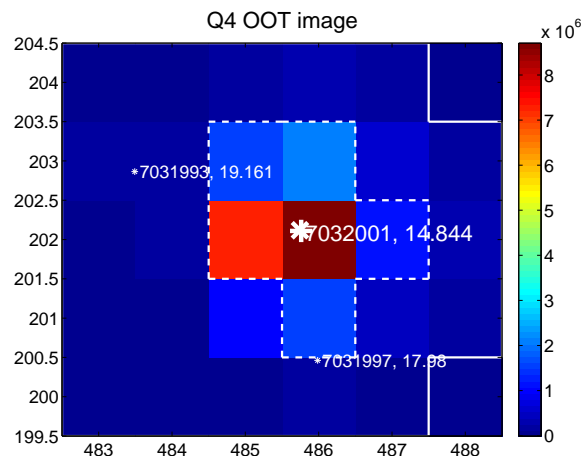
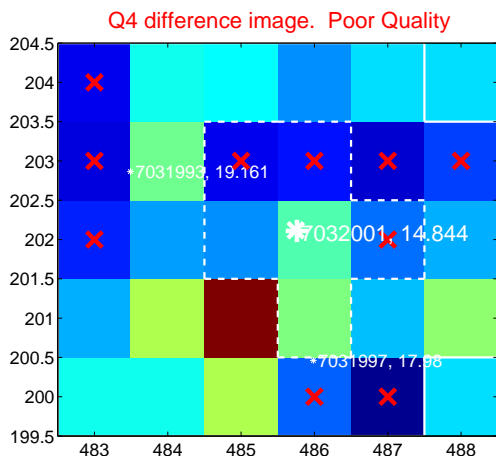
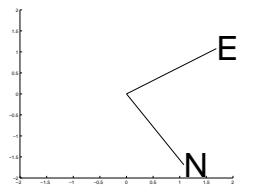
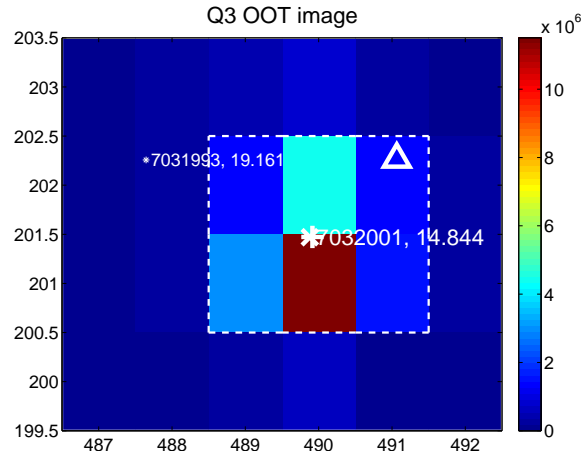
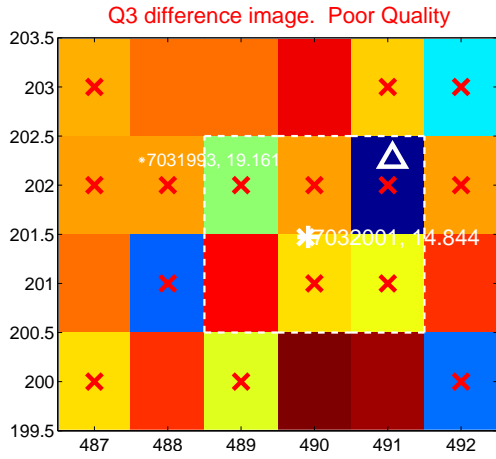
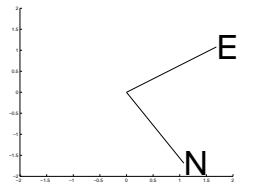
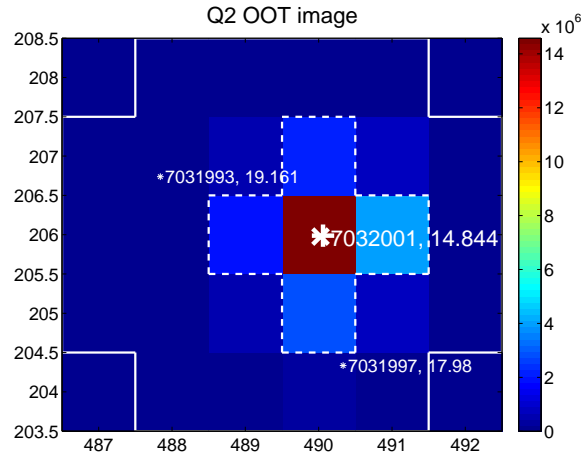
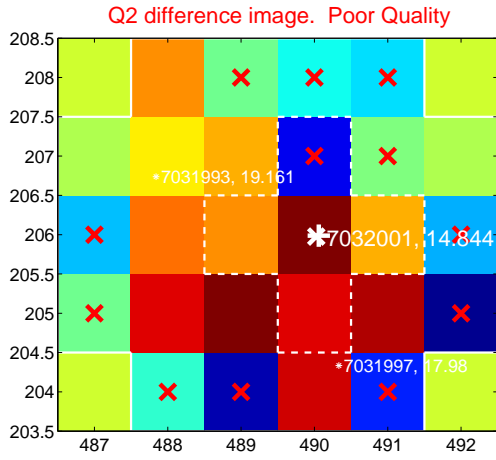
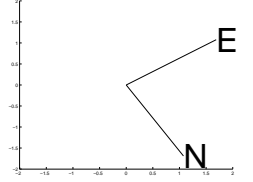
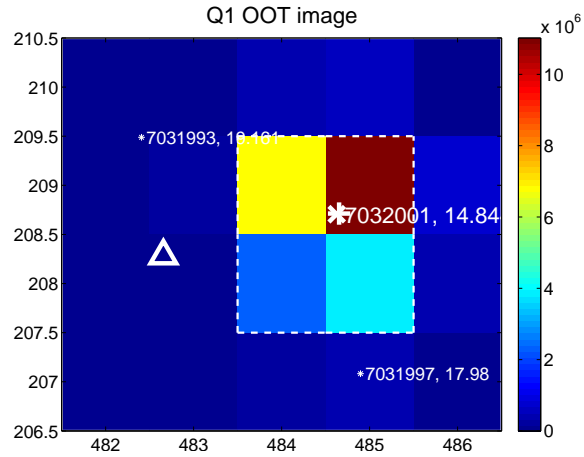
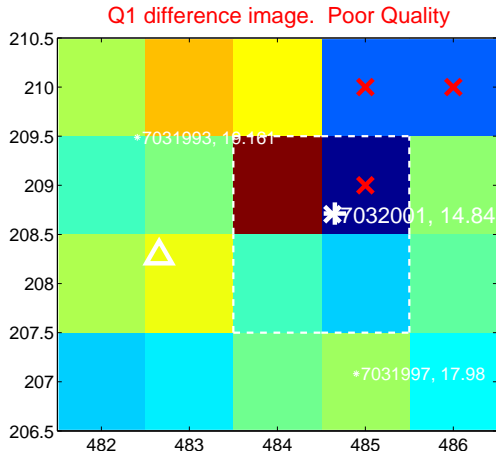


offset from photometric centroids

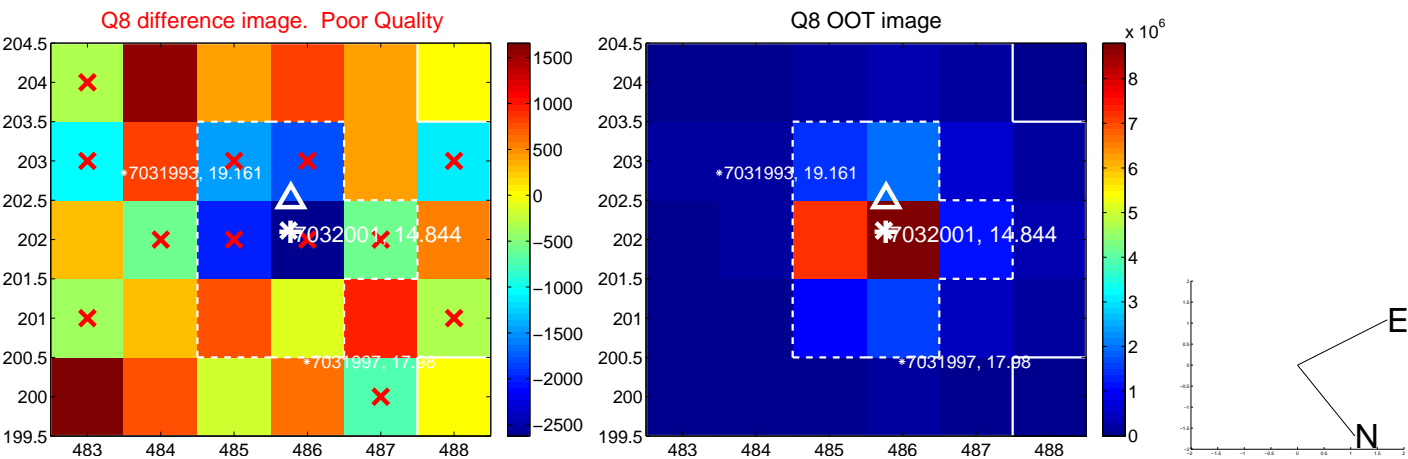
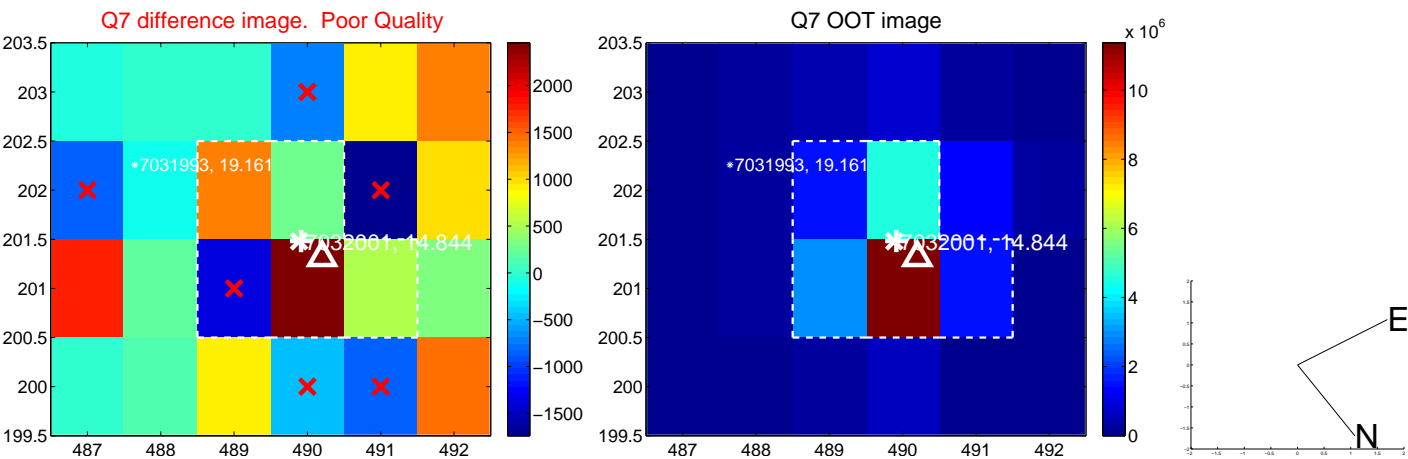
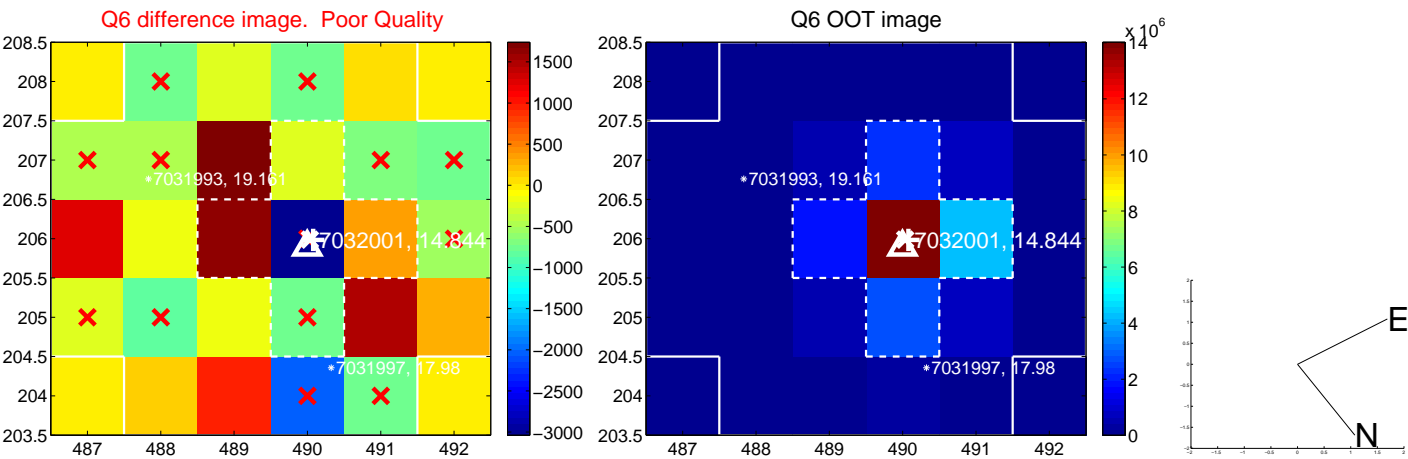
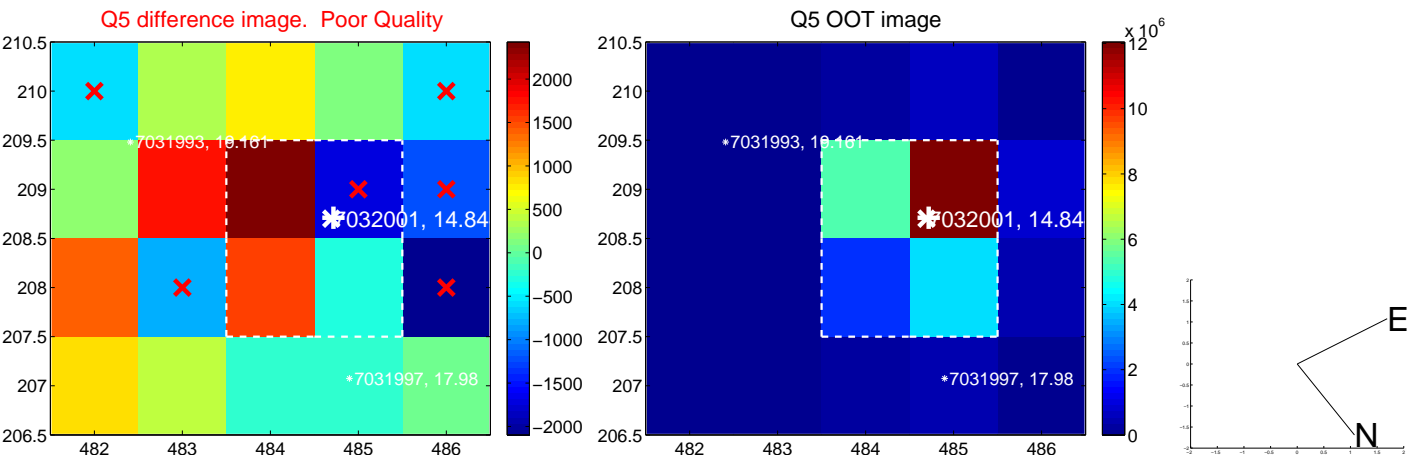


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

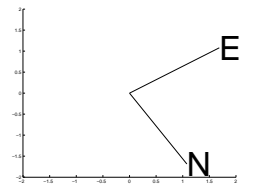
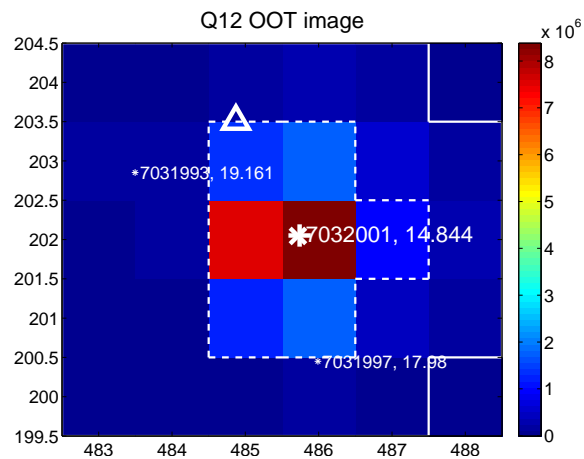
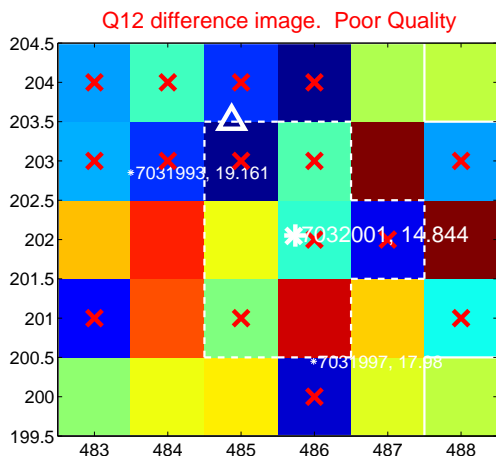
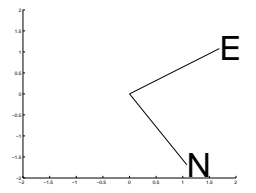
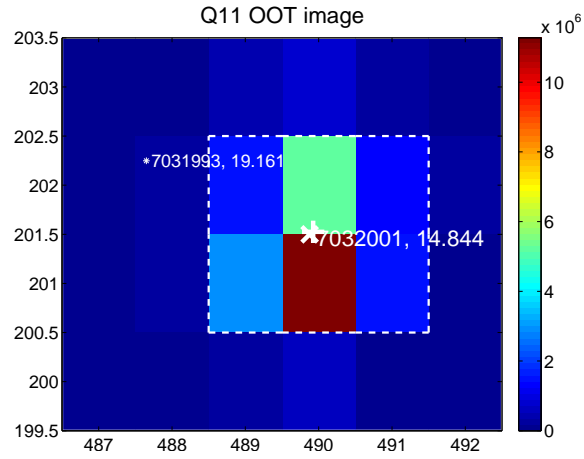
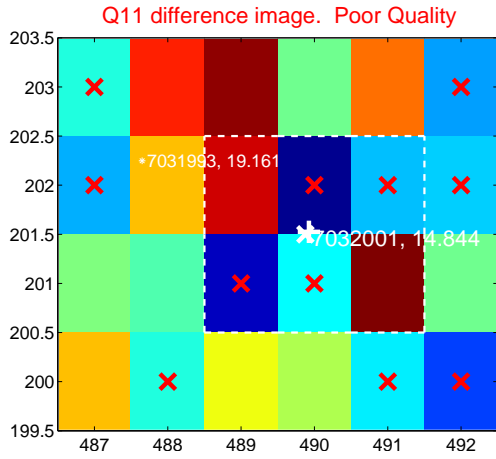
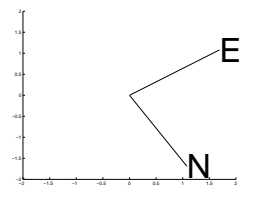
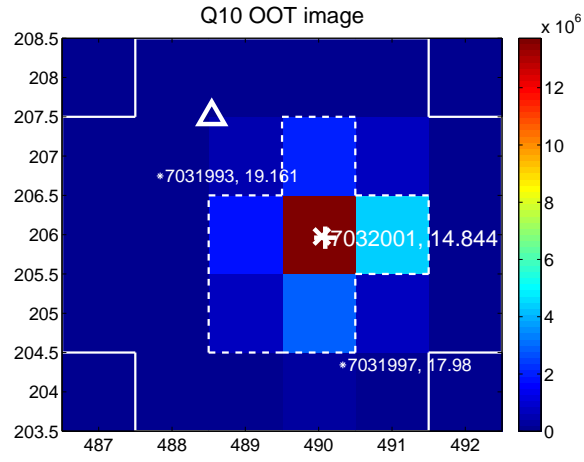
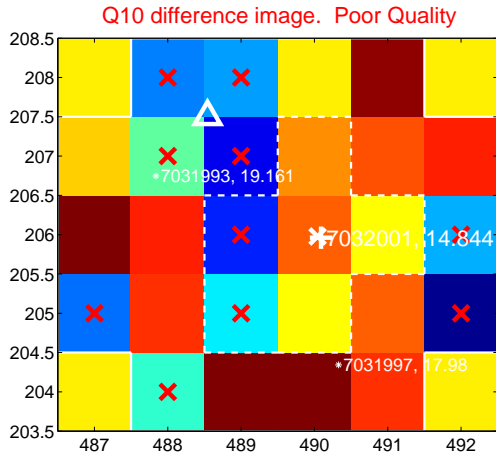
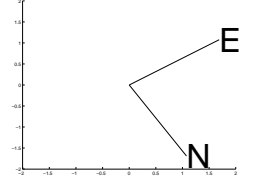
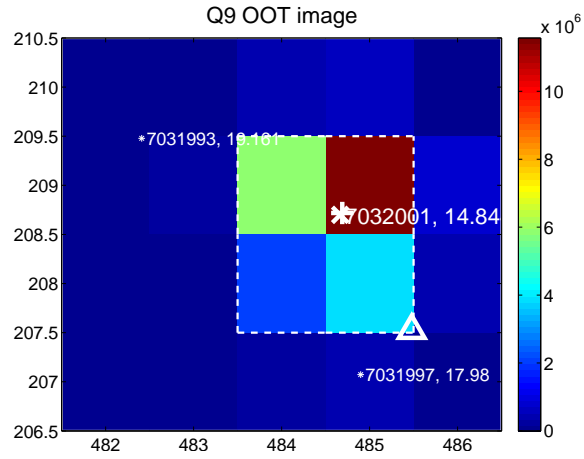
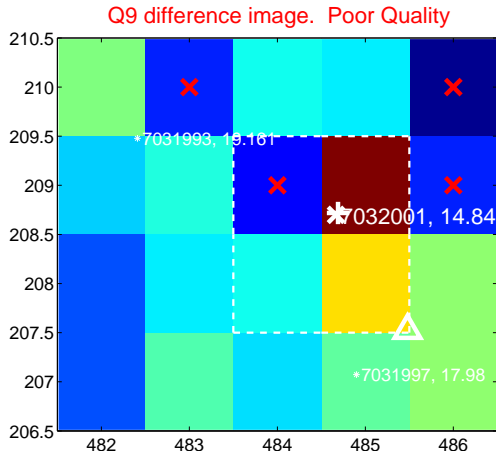
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



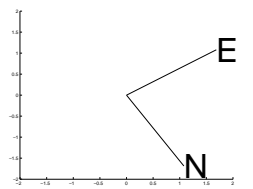
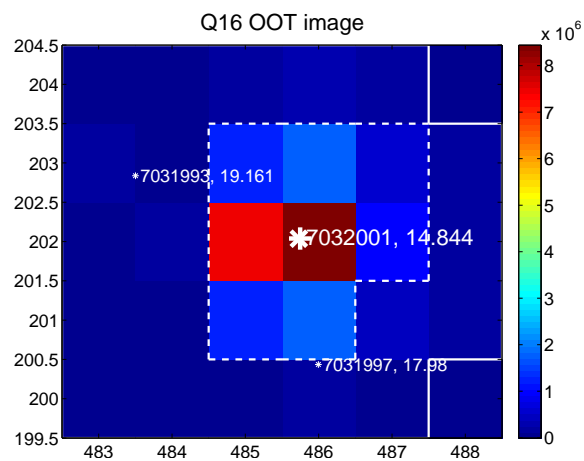
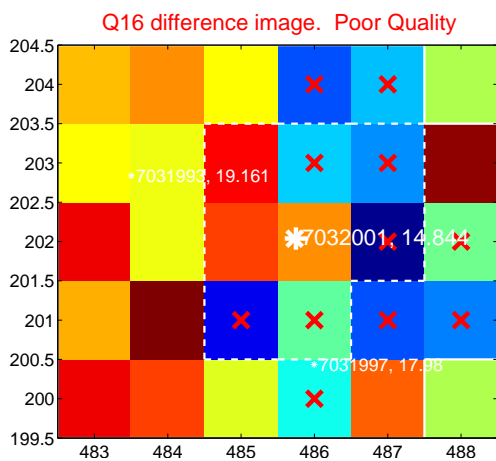
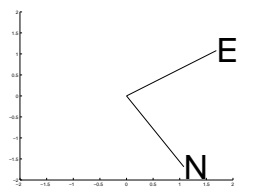
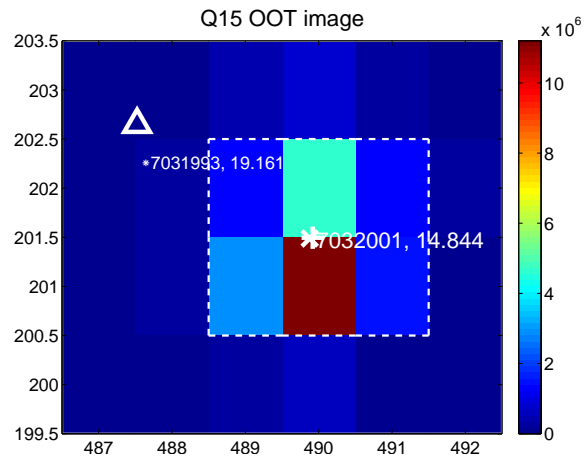
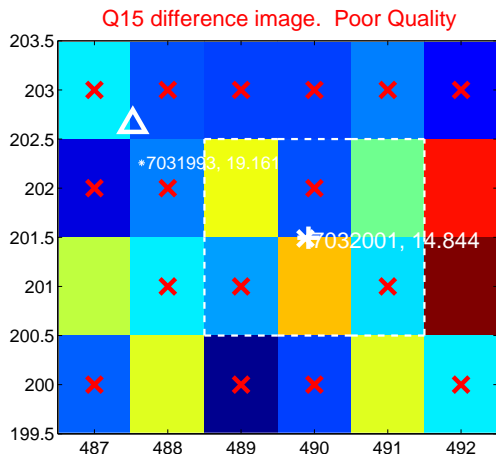
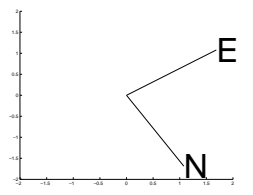
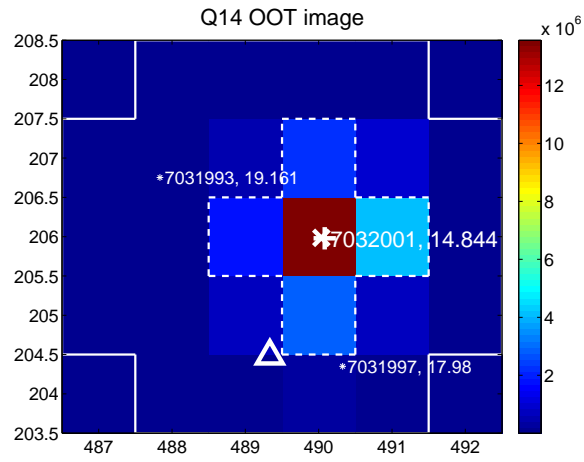
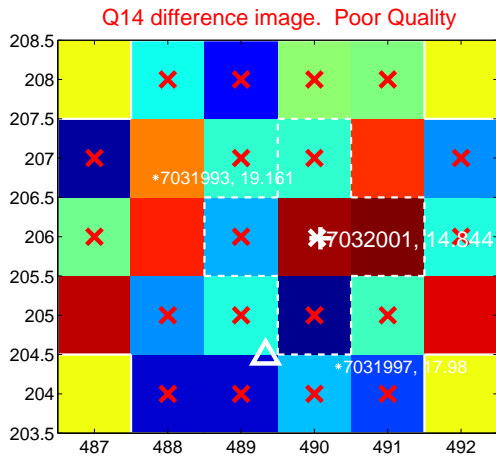
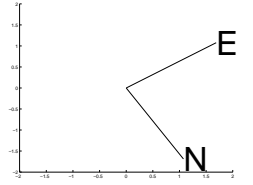
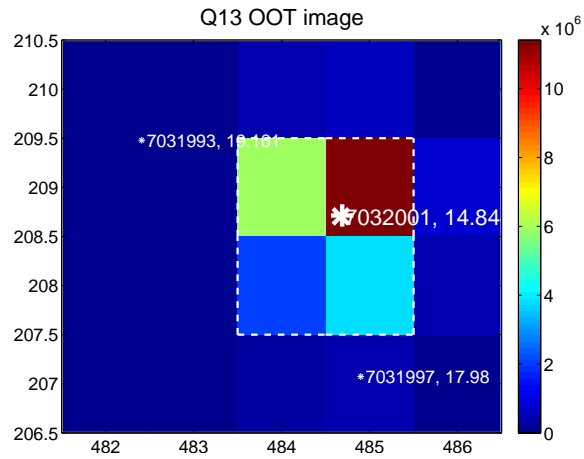
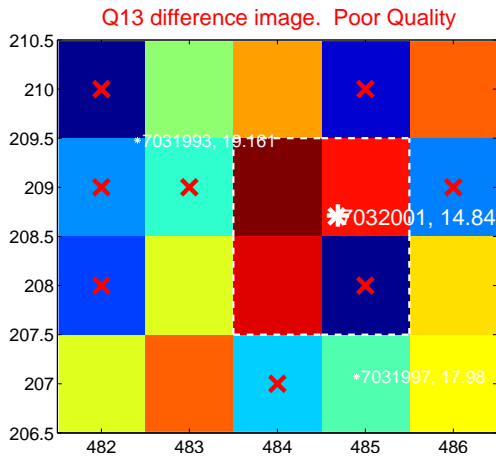
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

