

KIC 005703256

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})
005703256-01	OBS	No	0.731435	131.632246	15.5	5.351	9.4	10.3	0.93	6003	0.43	4380.03
005703256-02	OBS	No	20.461120	132.004744	197.9	4.622	12.3	5.4	0.93	6003	1.52	51.58
005703256-03	OBS	No	16.046324	138.531275	758.0	1.253	10.6	9.4	0.93	6003	2.58	71.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005703256-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
005703256-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_POS_ALT—CENT_FEW_DIFFS
005703256-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED

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

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

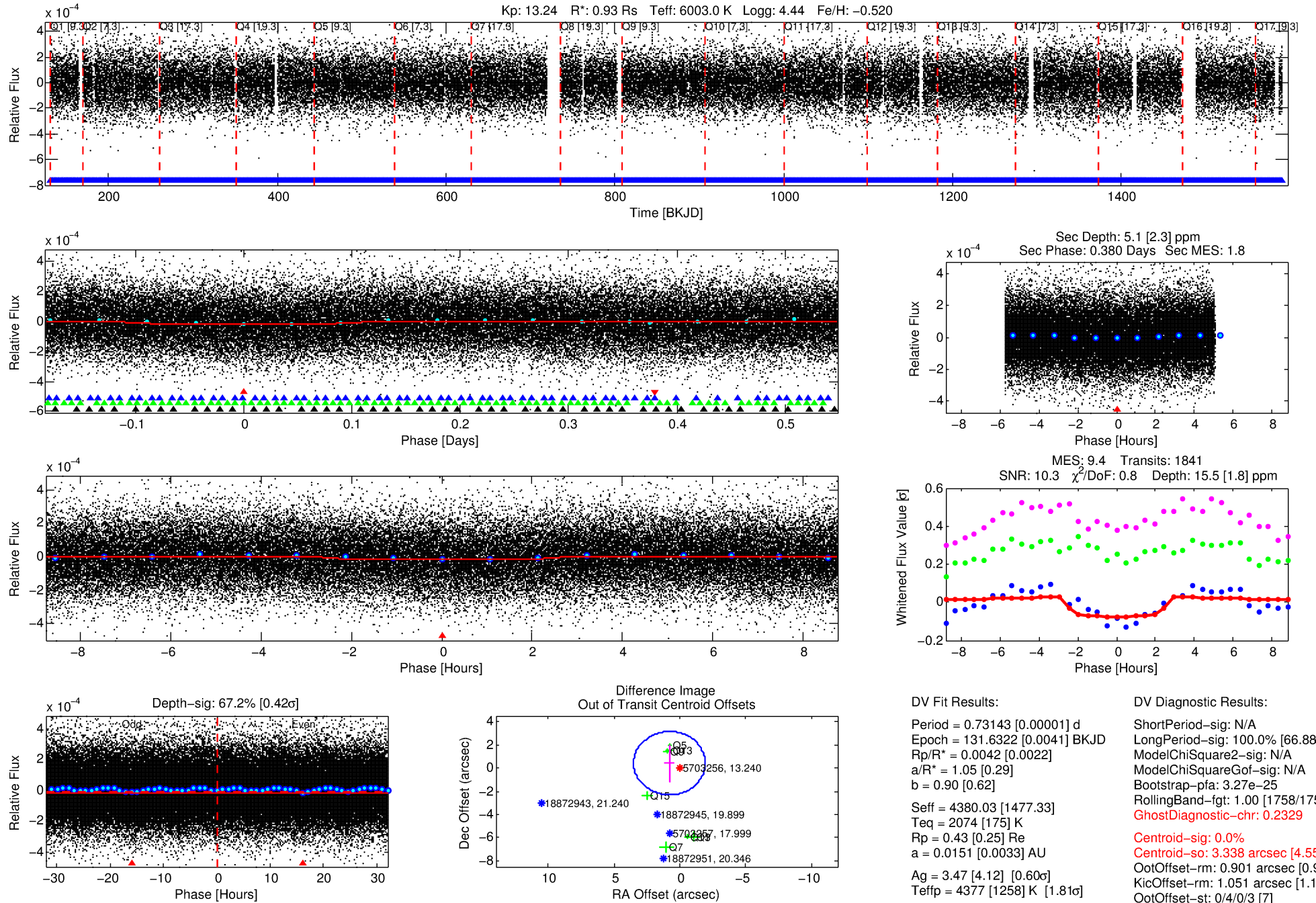
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005703256-01

No Significant Match Found

DV One-Page Summary

KIC: 5703256 Candidate: 1 of 4 Period: 0.731 d



DV Fit Results:

Period = 0.73143 [0.00001] d
Epoch = 131.6322 [0.0041] BKJD
Rp/R* = 0.0042 [0.0022]
a/R* = 1.05 [0.29]
b = 0.90 [0.62]
Seff = 4380.03 [1477.33]
Teq = 2074 [175] K
Rp = 0.43 [0.25] Re
a = 0.0151 [0.0033] AU
Ag = 3.47 [4.12] [0.60 σ]
Teff = 4377 [1258] K [1.81 σ]

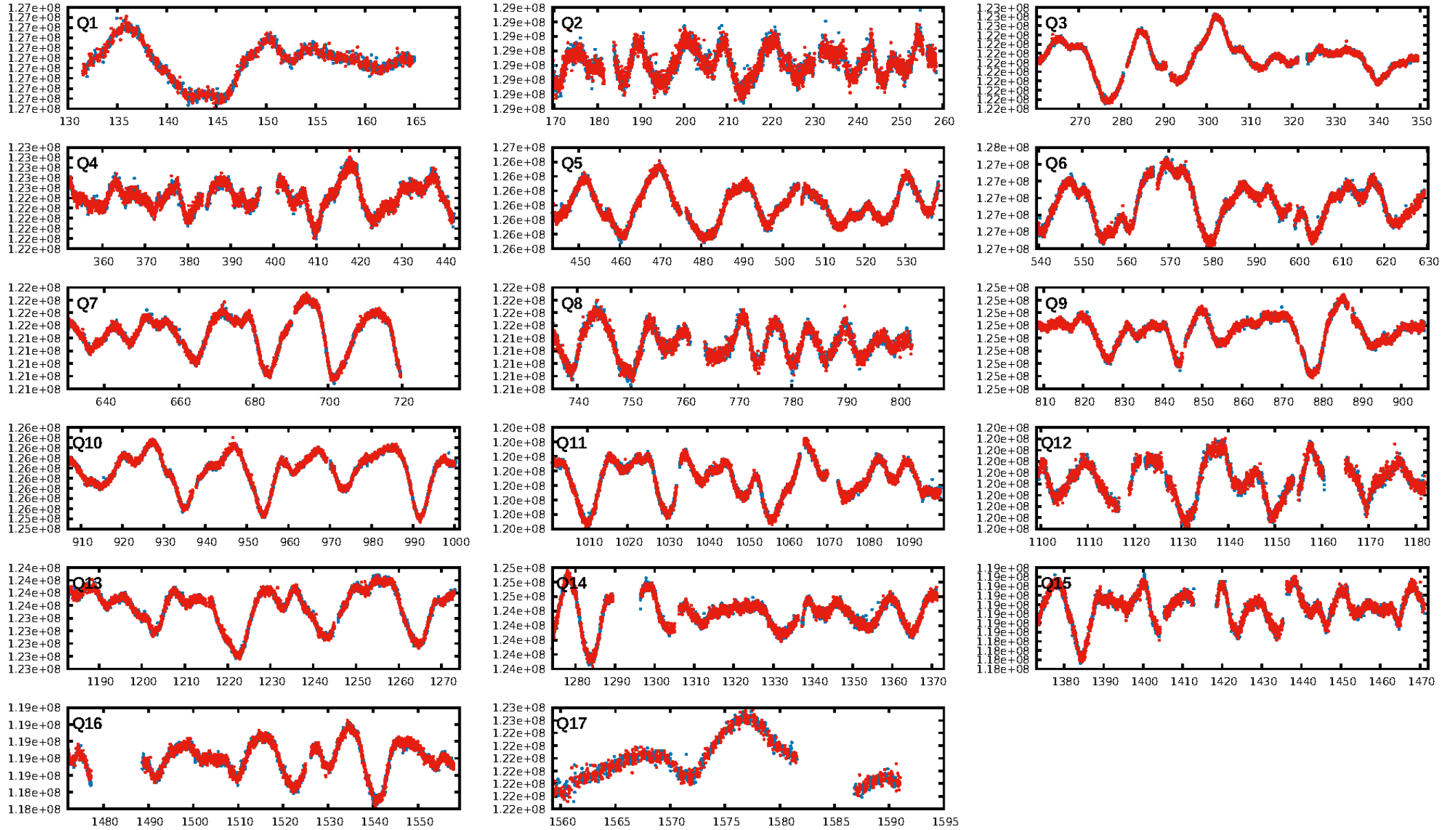
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [66.88 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.27e-25
RollingBand-fgt: 1.00 [1758/1758]
GhostDiagnostic-chr: 0.2329
Centroid-sig: 0.0%
Centroid-so: 3.338 arcsec [4.55 σ]
OotOffset-rm: 0.901 arcsec [0.99 σ]
KicOffset-rm: 1.051 arcsec [1.18 σ]
OotOffset-st: 0/4/0/3 [7]
KicOffset-st: 0/4/0/3 [7]
DiffImageQuality-fgm: 0.57 [4/7]
DiffImageOverlap-fno: 1.00 [17/17]

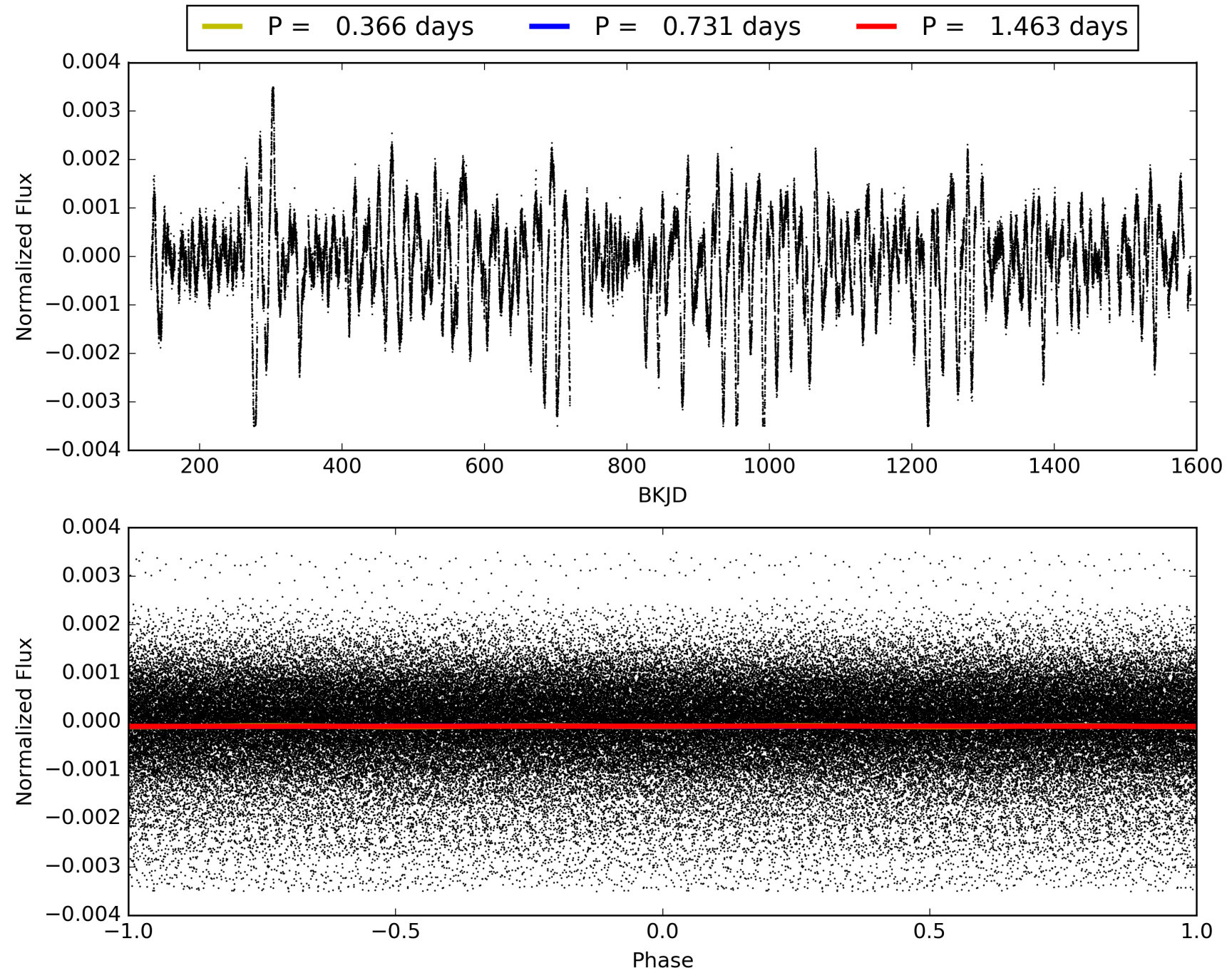
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 06:30:50 Z

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

TCE 005703256-01, PDC Light Curves

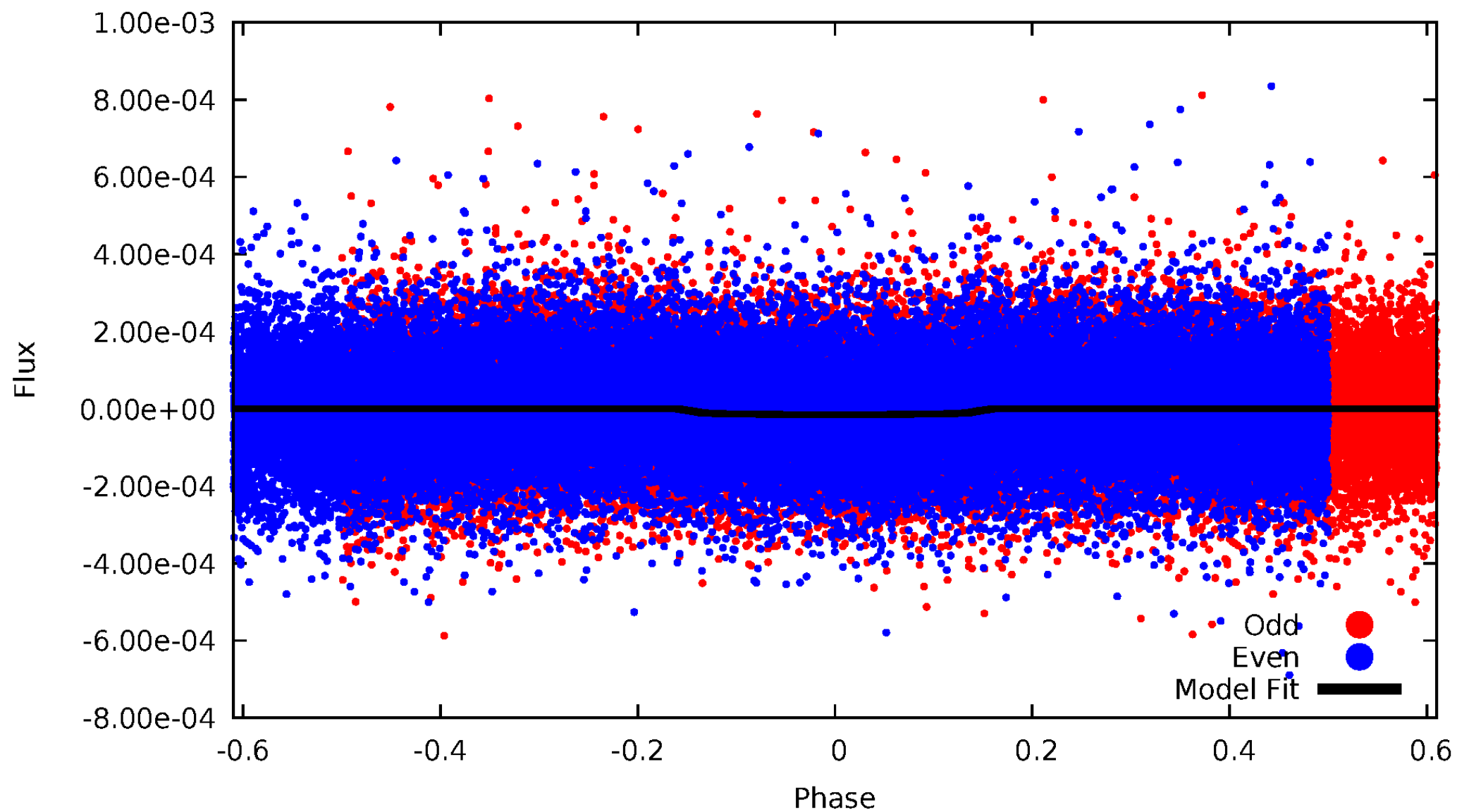


TCE 005703256-01



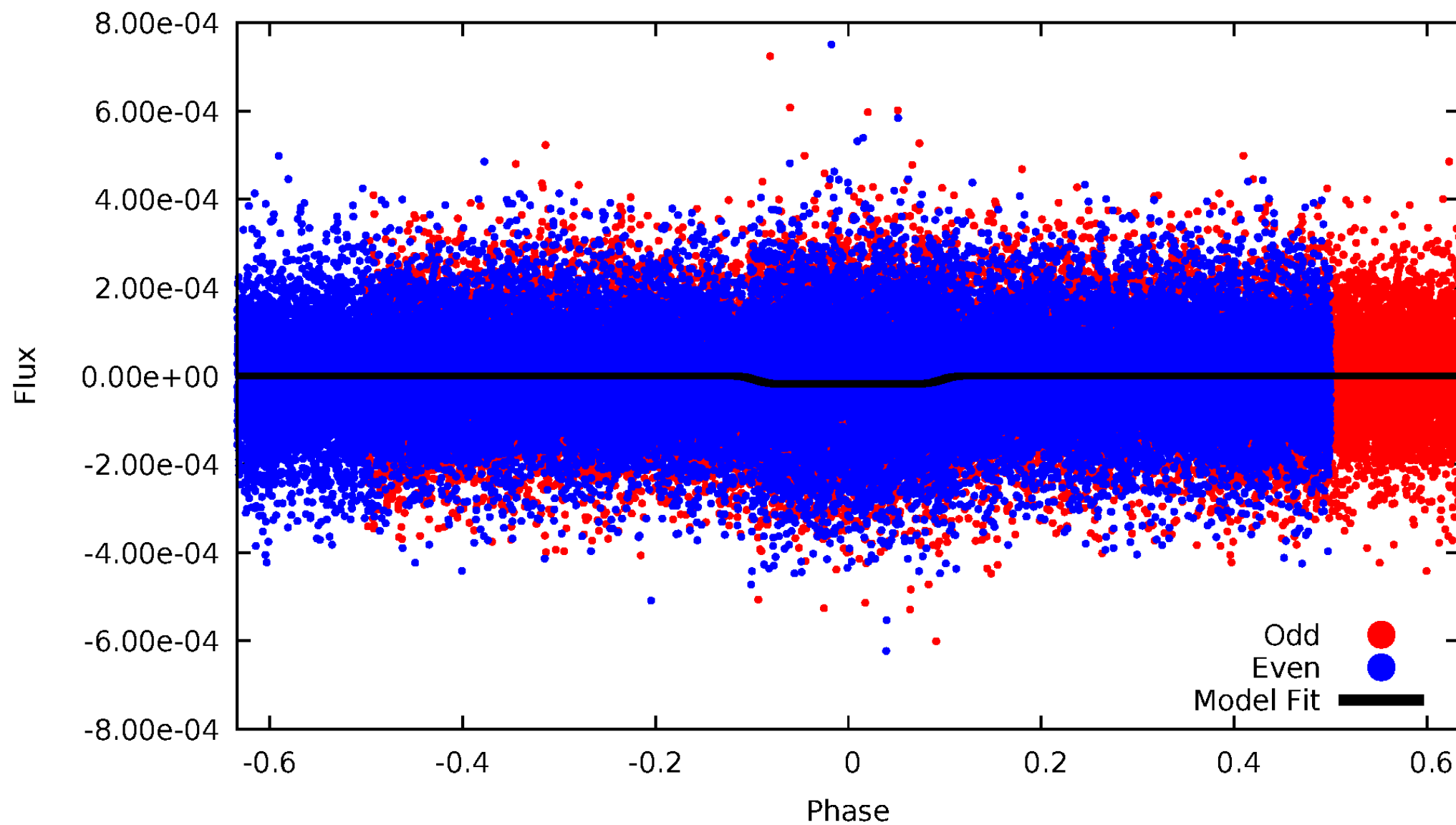
DV Odd/Even

TCE 005703256-01



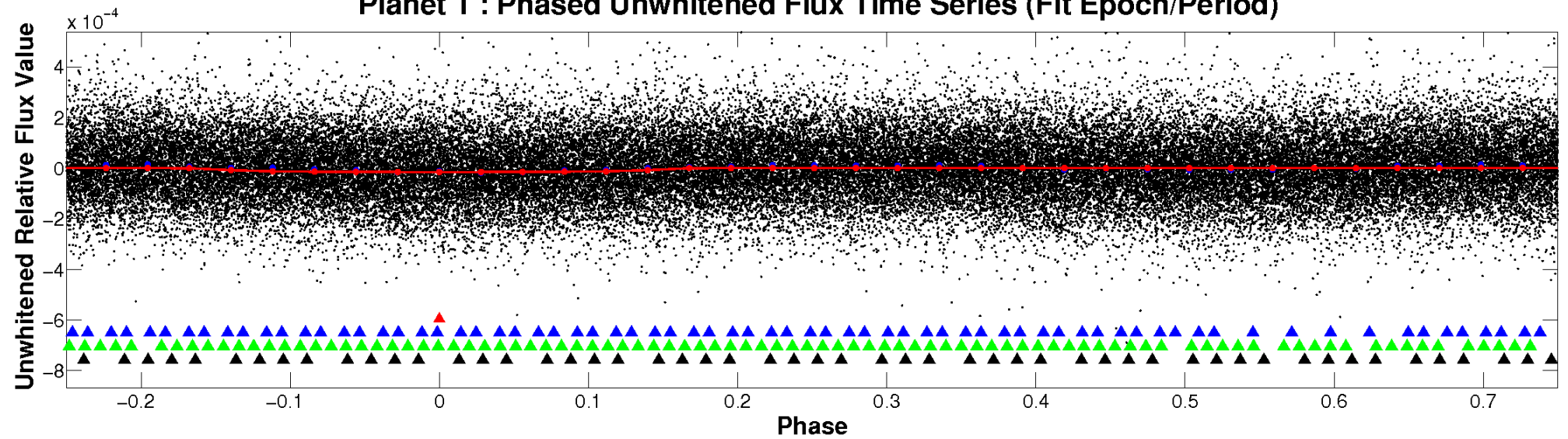
ALT Odd/Even

TCE 005703256-01

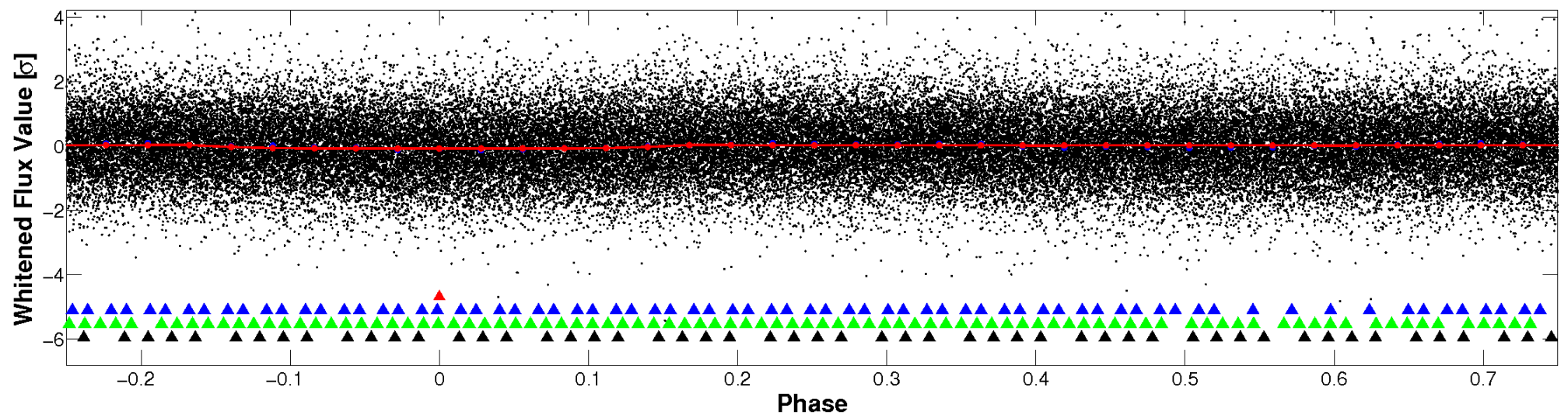


Non-Whitened Vs. Whitened Light Curve

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

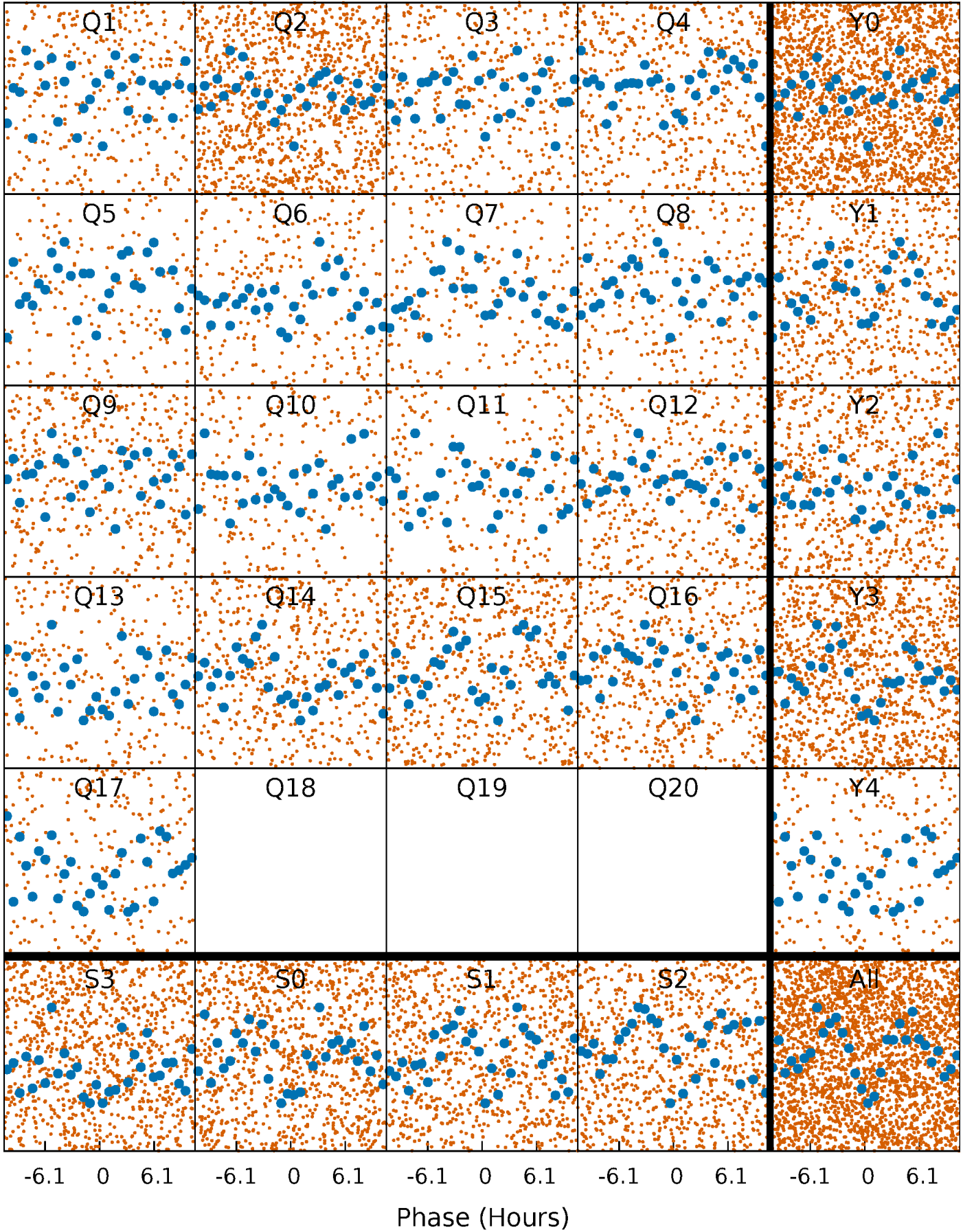


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



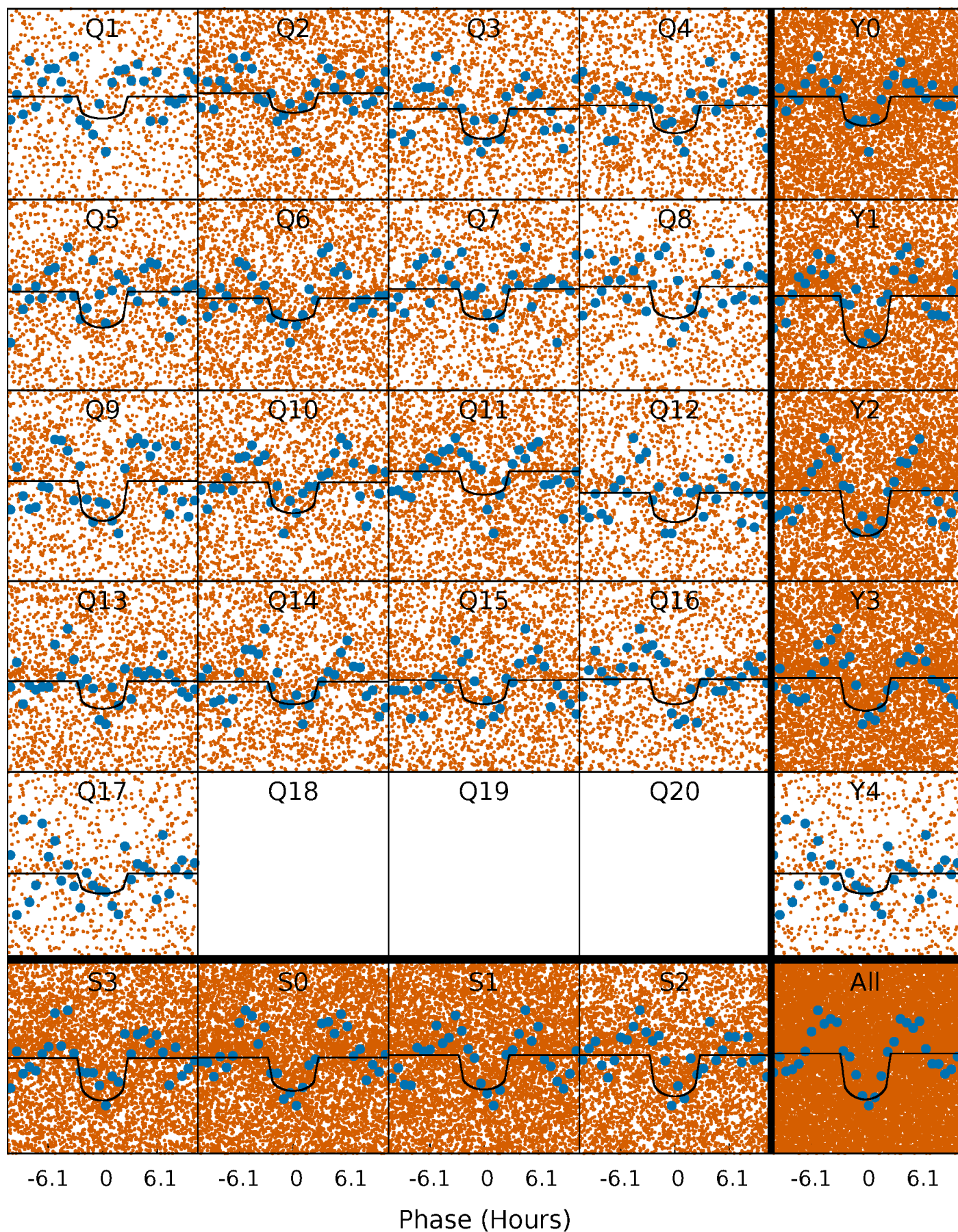
PDC Quarter-Phased Transit Curves

TCE 005703256-01 P= 0.731435 Days $T_0=131.632247$ (BKJD)



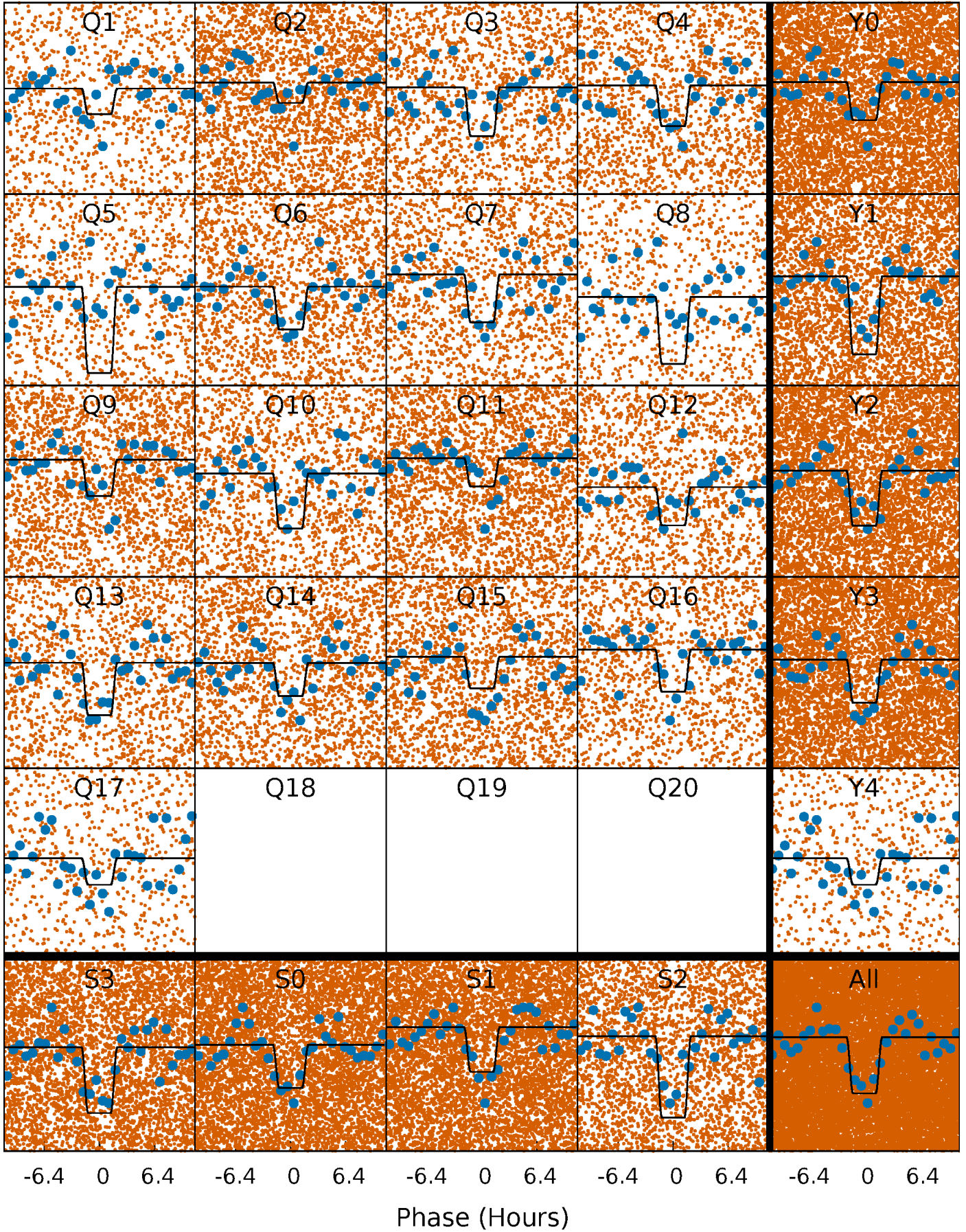
DV Quarter-Phased Transit Curves

TCE 005703256-01 P= 0.731435 Days $T_0=131.632247$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

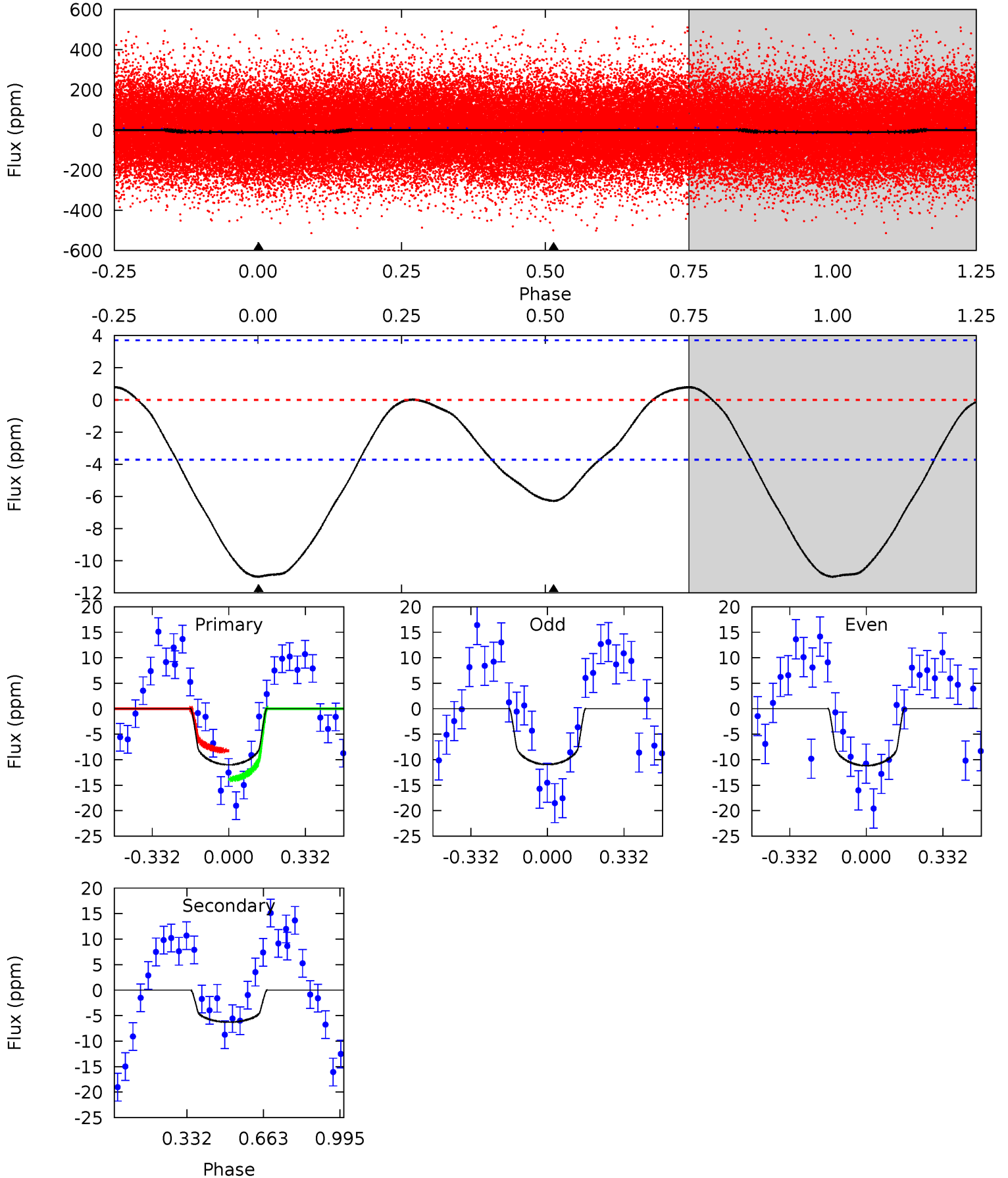
TCE 005703256-01 P= 0.731446 Days $T_0=131.631763$ (BKJD)



DV Model-Shift Uniqueness Test

005703256-01, P = 0.731435 Days, E = 130.900812 Days

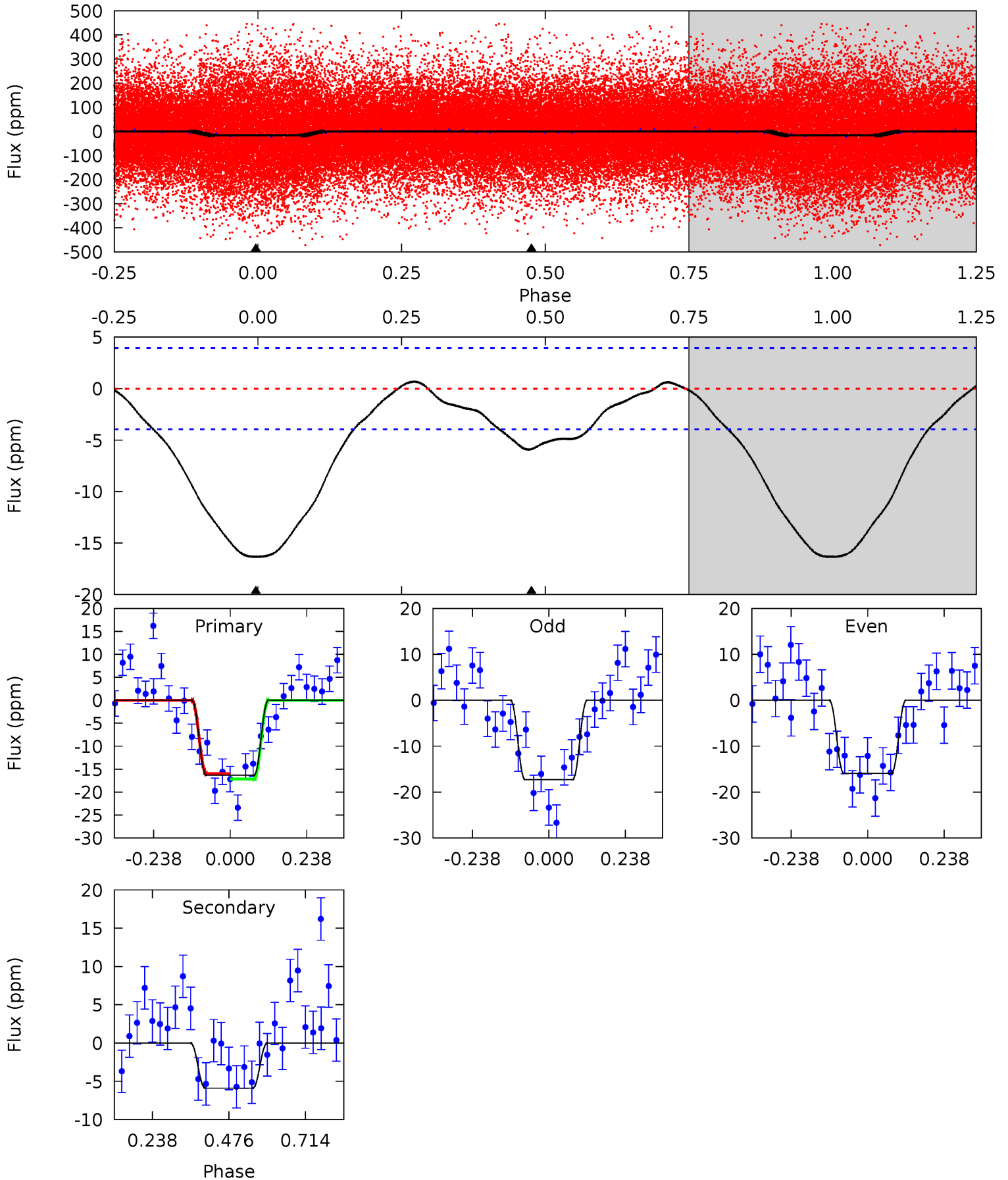
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.8	7.29	0	0	4.31	0.97	0.54	12.8	12.8	7.29	7.29	0.13	0.97	0.07	3.22



Alt Model-Shift Uniqueness Test

005703256-01, P = 0.731446 Days, E = 130.900317 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	6.51	0	0	4.38	1.18	0.55	18.1	18.1	6.51	6.51	0.77	0.91	0.04	0.67



Stellar Parameters For KIC 005703256

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6003^{+161}_{-161}	$4.439^{+0.116}_{-0.174}$	$-0.520^{+0.300}_{-0.300}$	$0.929^{+0.245}_{-0.132}$	$0.864^{+0.108}_{-0.081}$	$1.520^{+0.678}_{-0.718}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-14%	+12%/-9%	+45%/-47%
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 005703256-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-6 ± 1	$0.45^{+0.23}_{-0.23}$	2920^{+199}_{-151}	4642^{+1850}_{-748}	$3.993^{+14.242}_{-2.302}$
Alt.	-6 ± 1	$0.46^{+0.23}_{-0.23}$	2915^{+194}_{-165}	4508^{+1771}_{-711}	$3.504^{+10.620}_{-1.956}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

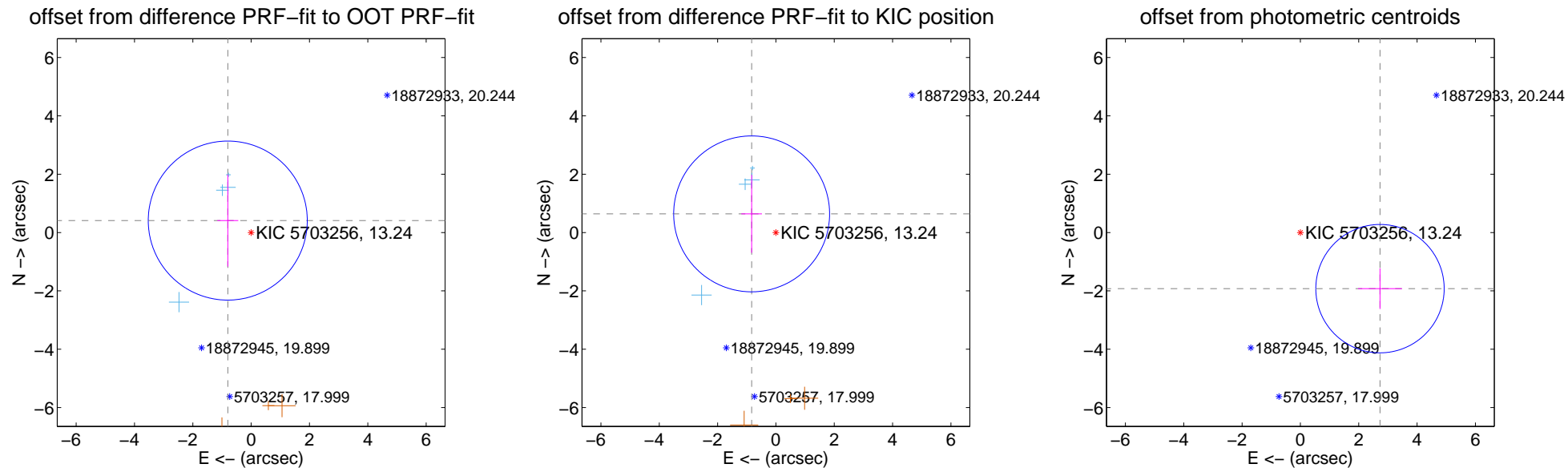
DV Centroid Data

Supplemental centroid analysis for 005703256-01. Kepler magnitude: 13.24. Transit SNR 10.27

There are 4 quarters with good PRF difference image offsets

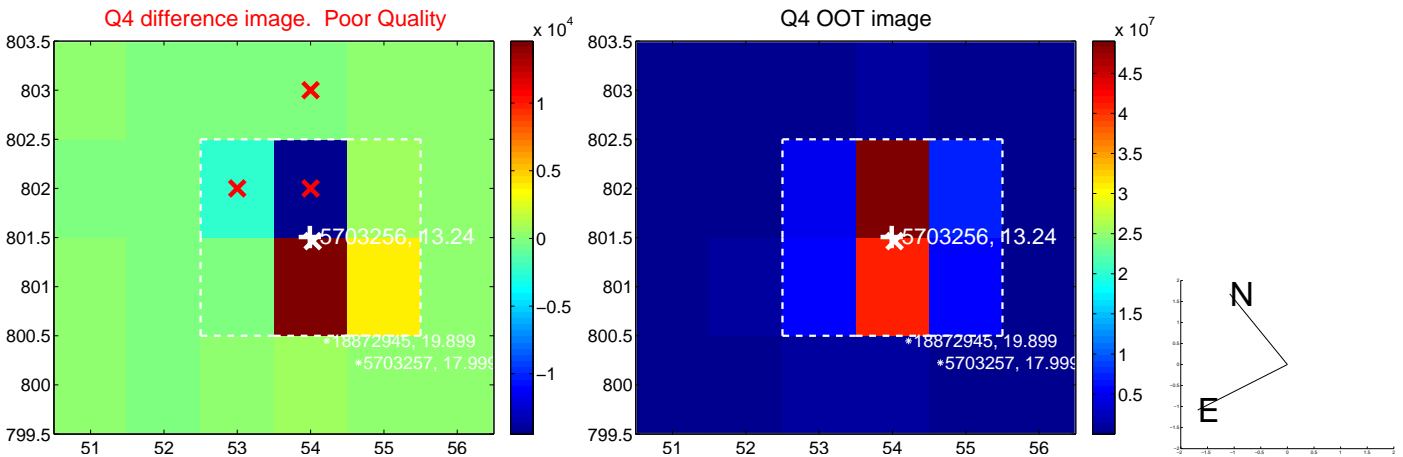
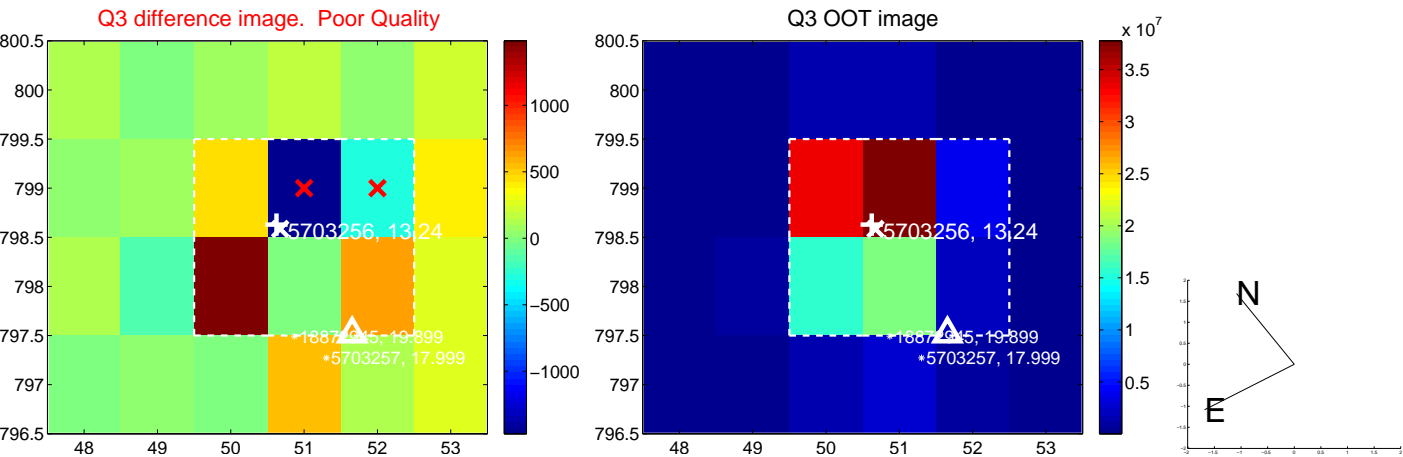
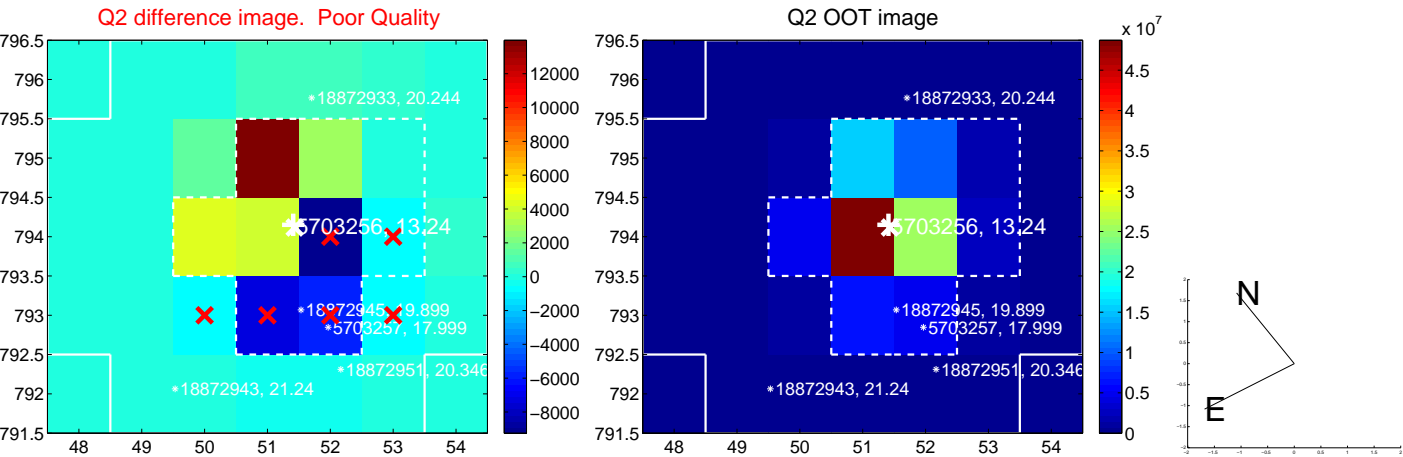
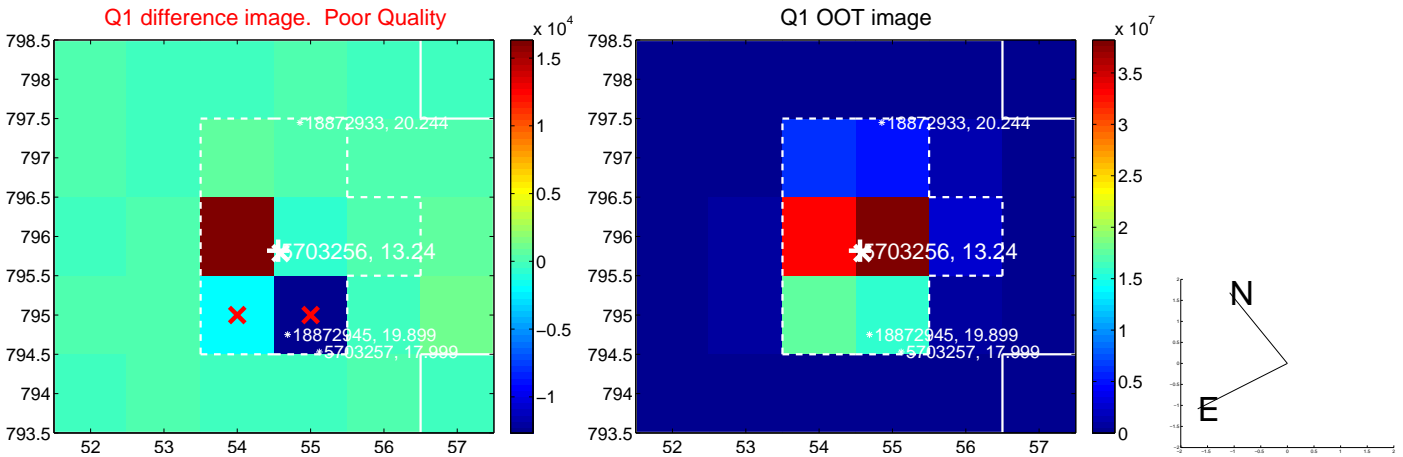
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.901 ± 0.909	0.99	0.802 ± 0.361	0.410 ± 1.577
PRF-fit source offset from KIC position	1.051 ± 0.891	1.18	0.833 ± 0.353	0.640 ± 1.333
photometric centroid source offset	3.34 ± 0.73	4.55	-2.73 ± 0.75	-1.92 ± 0.70

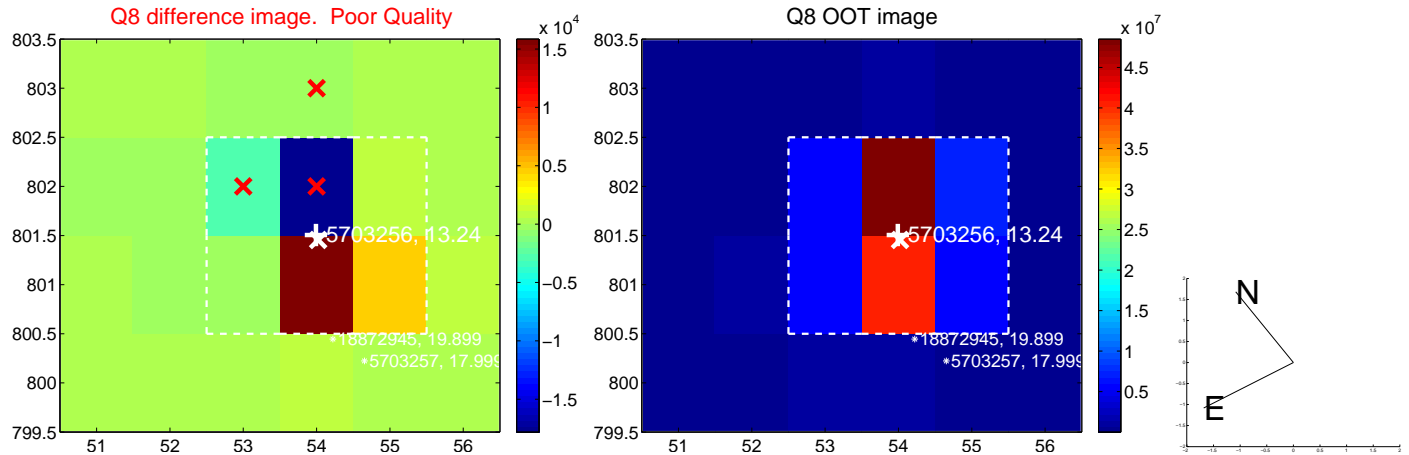
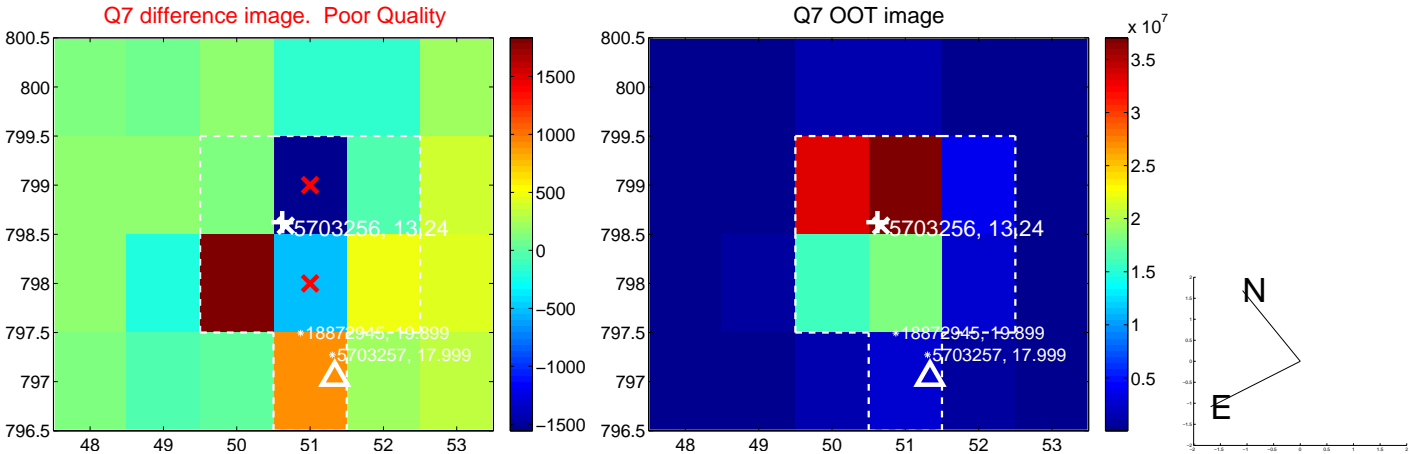
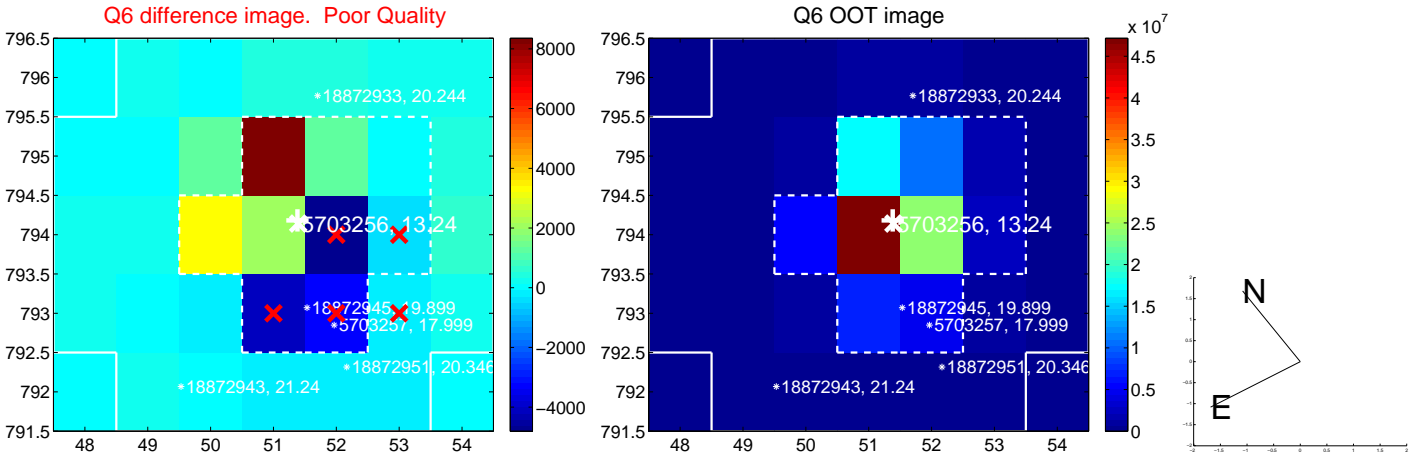
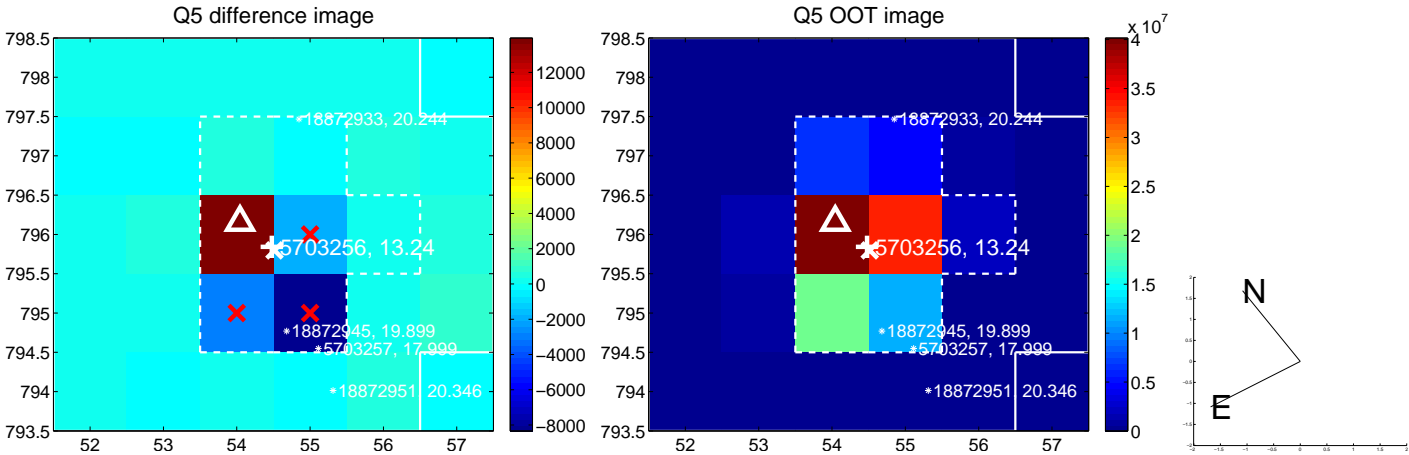


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

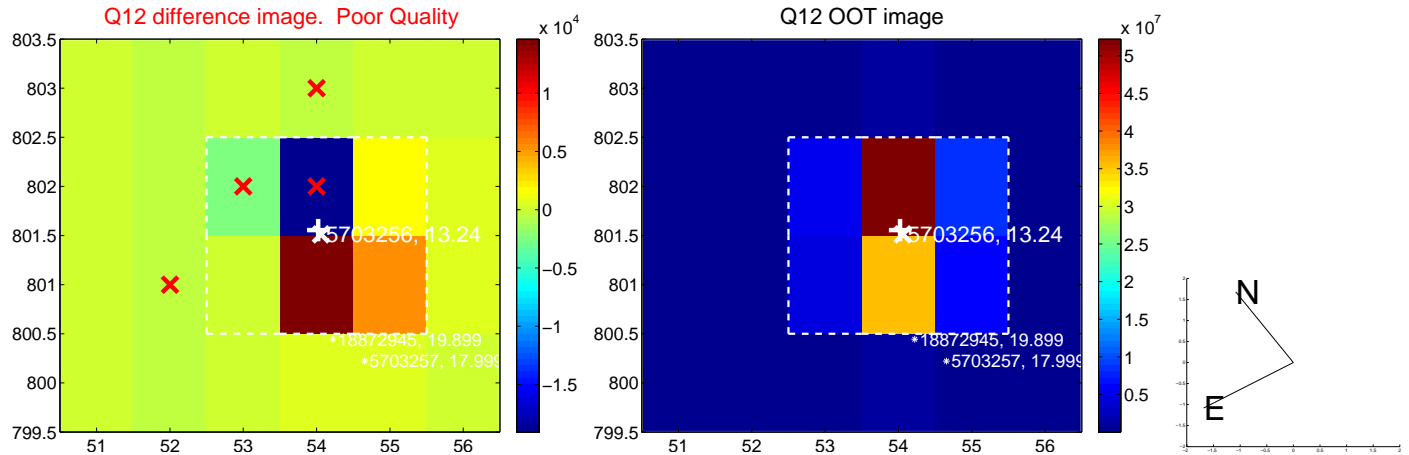
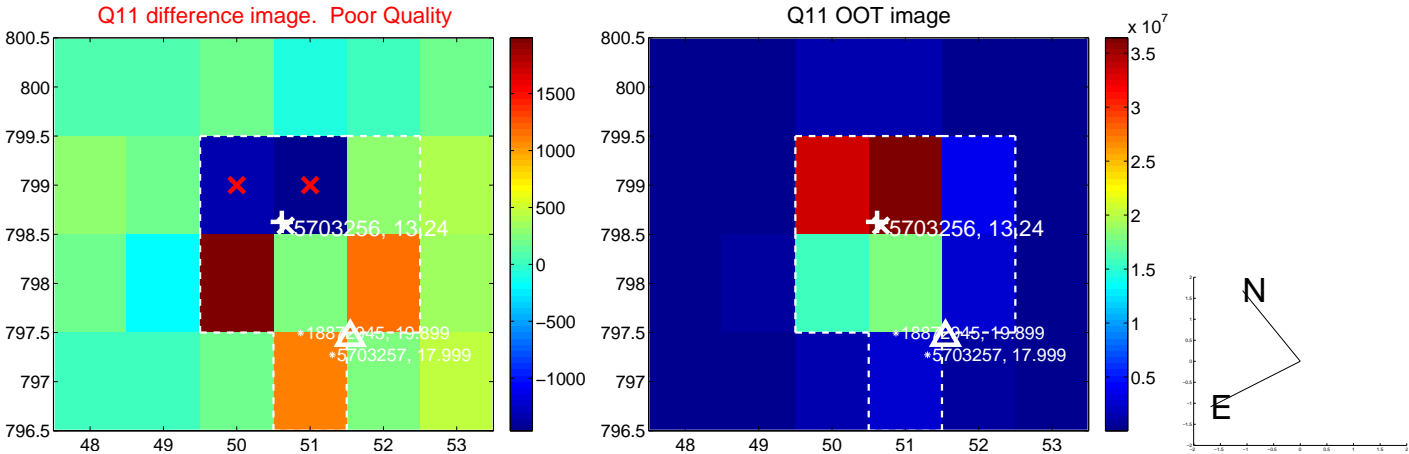
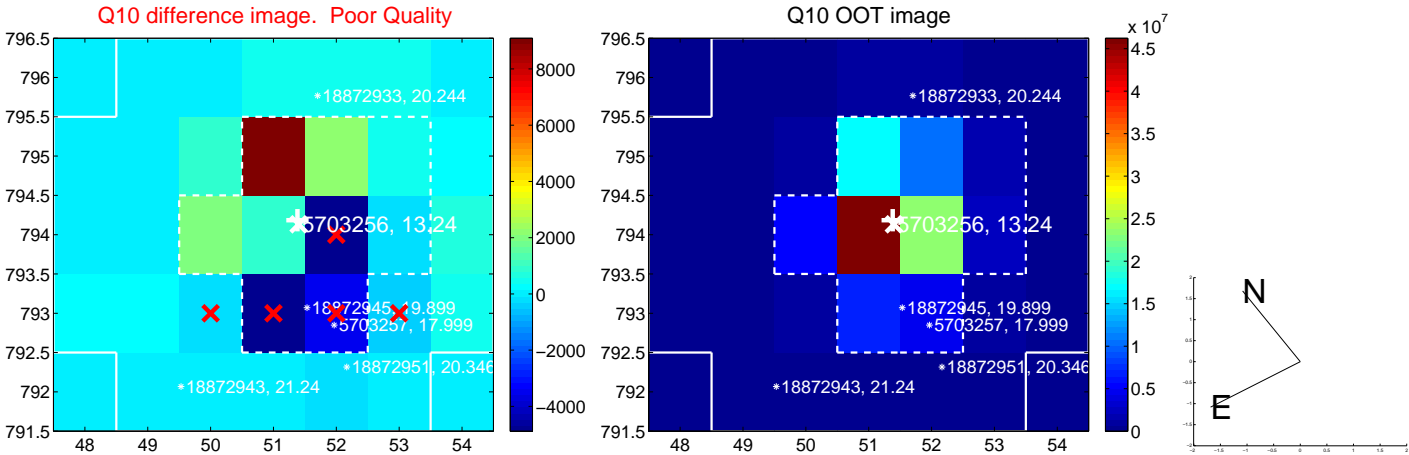
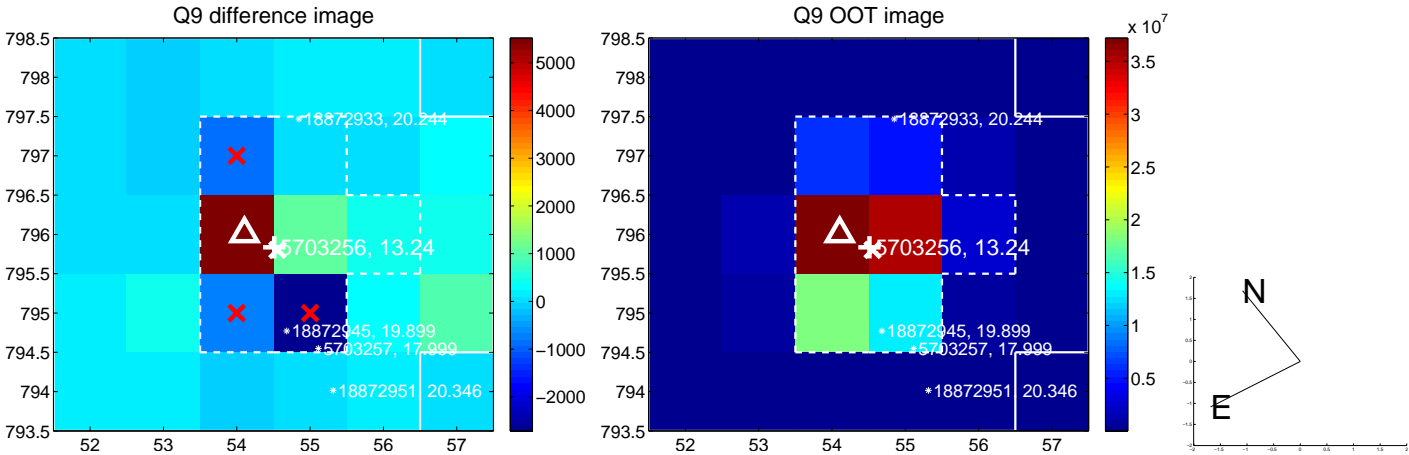
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



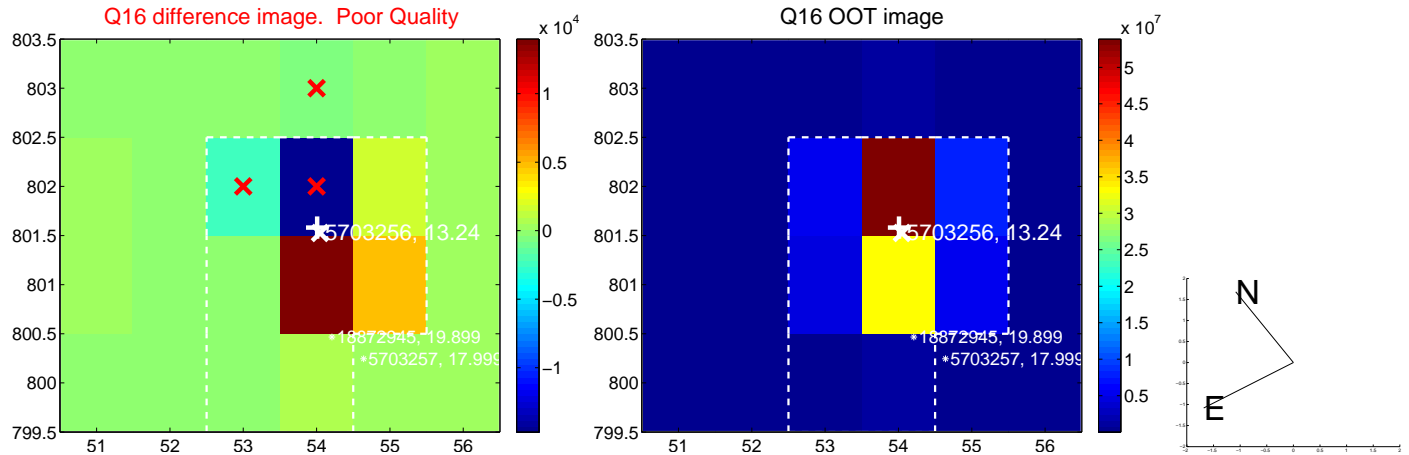
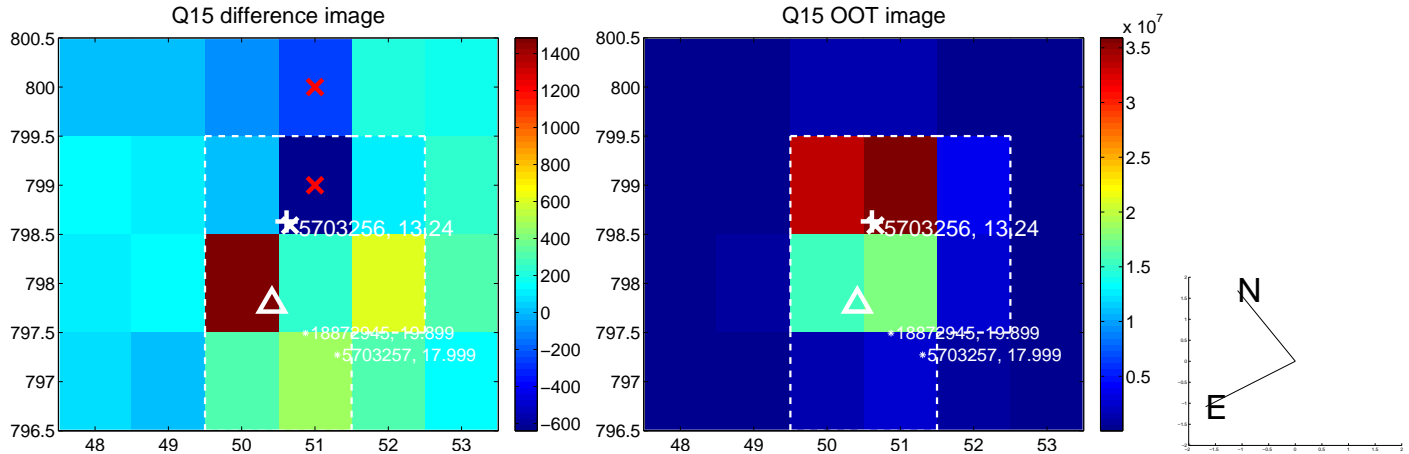
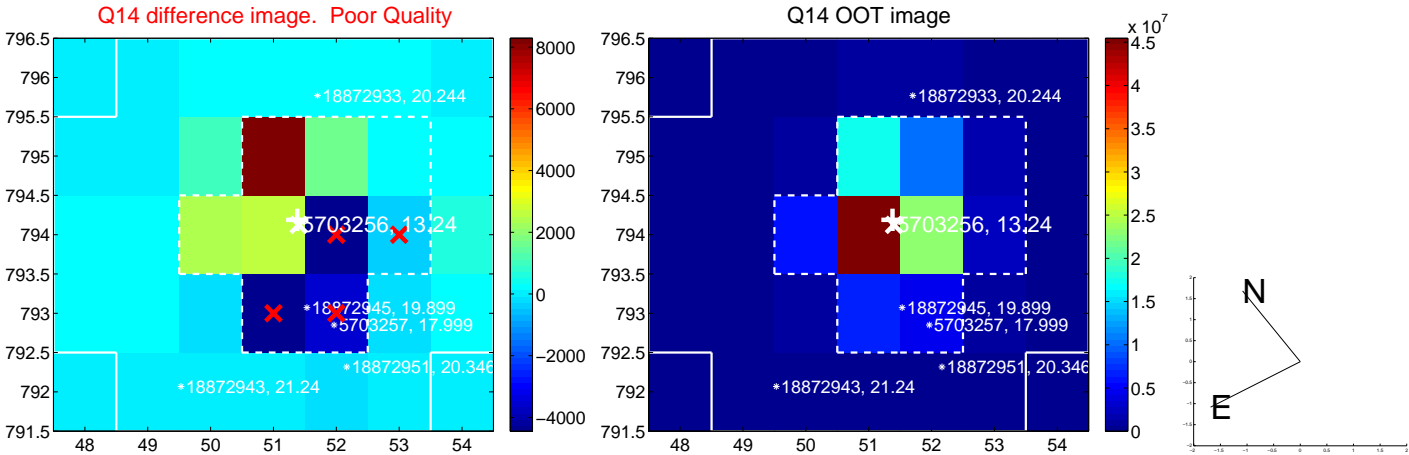
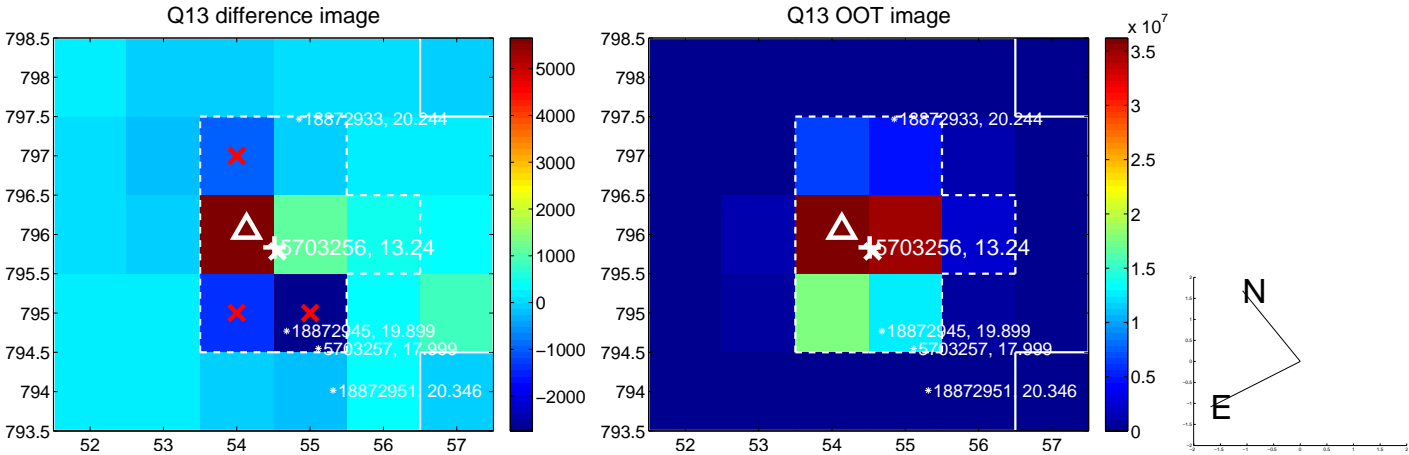
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



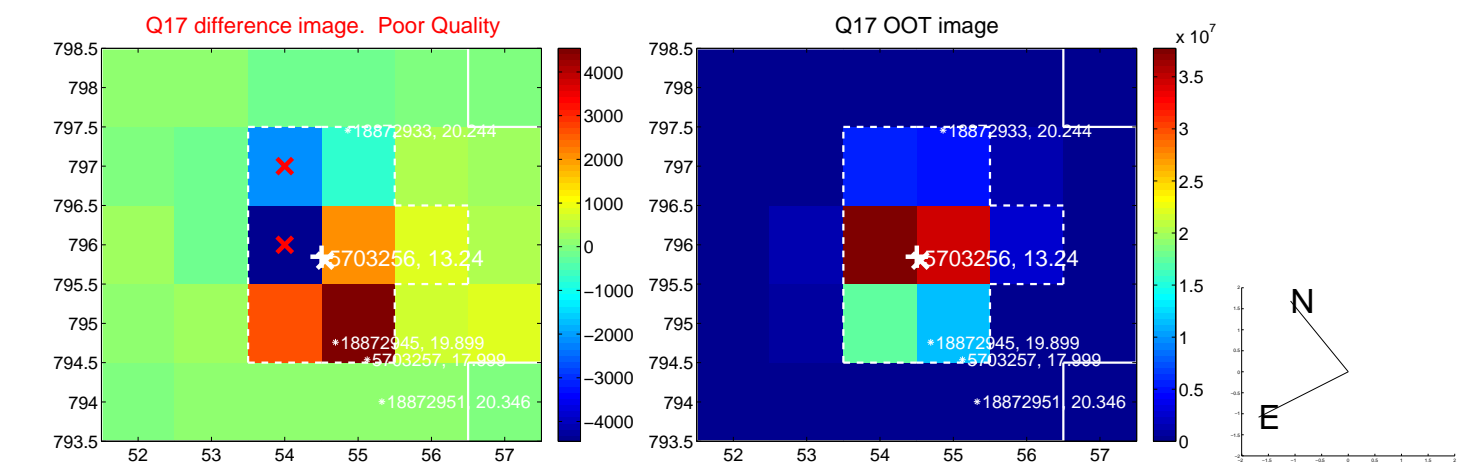
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



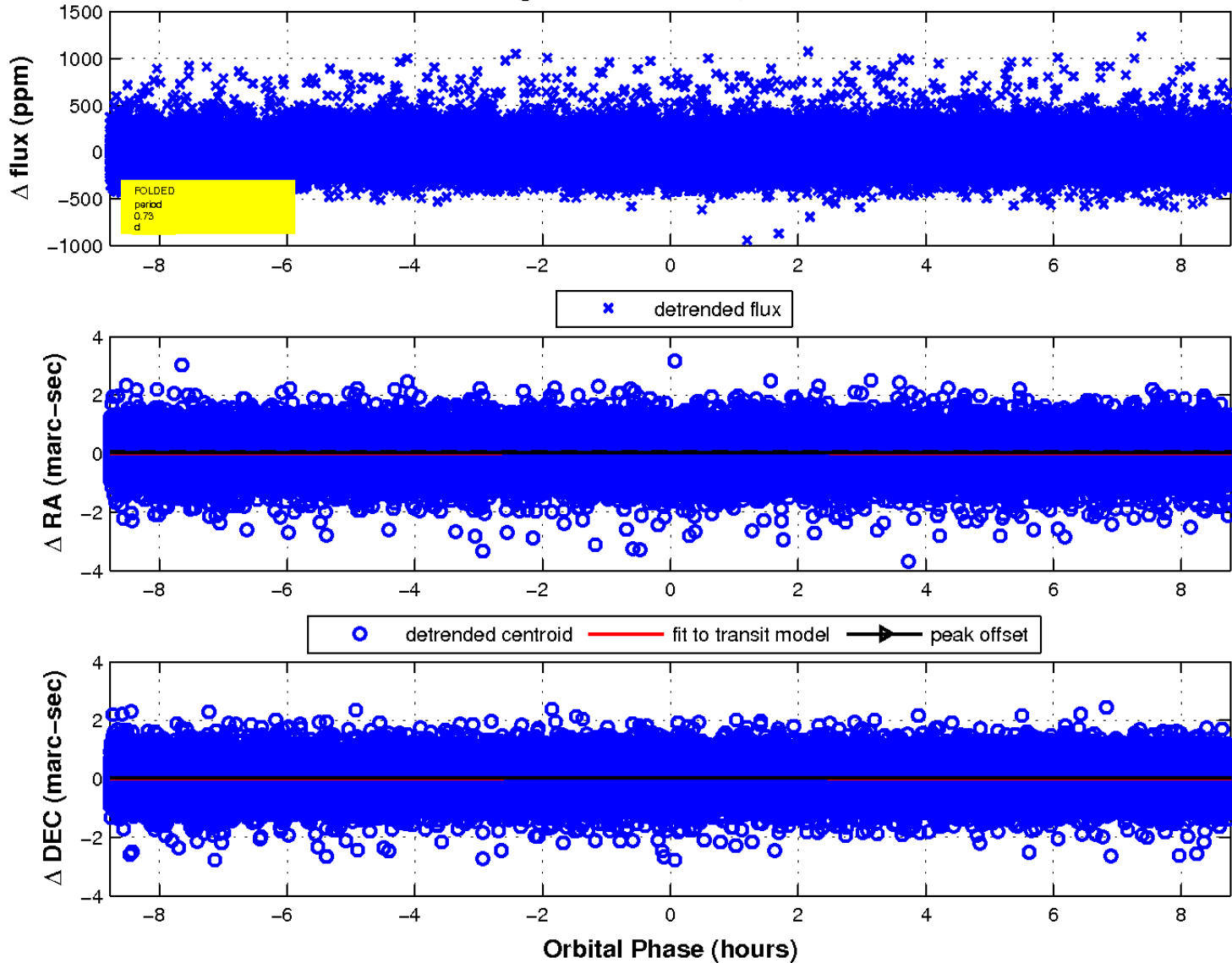
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



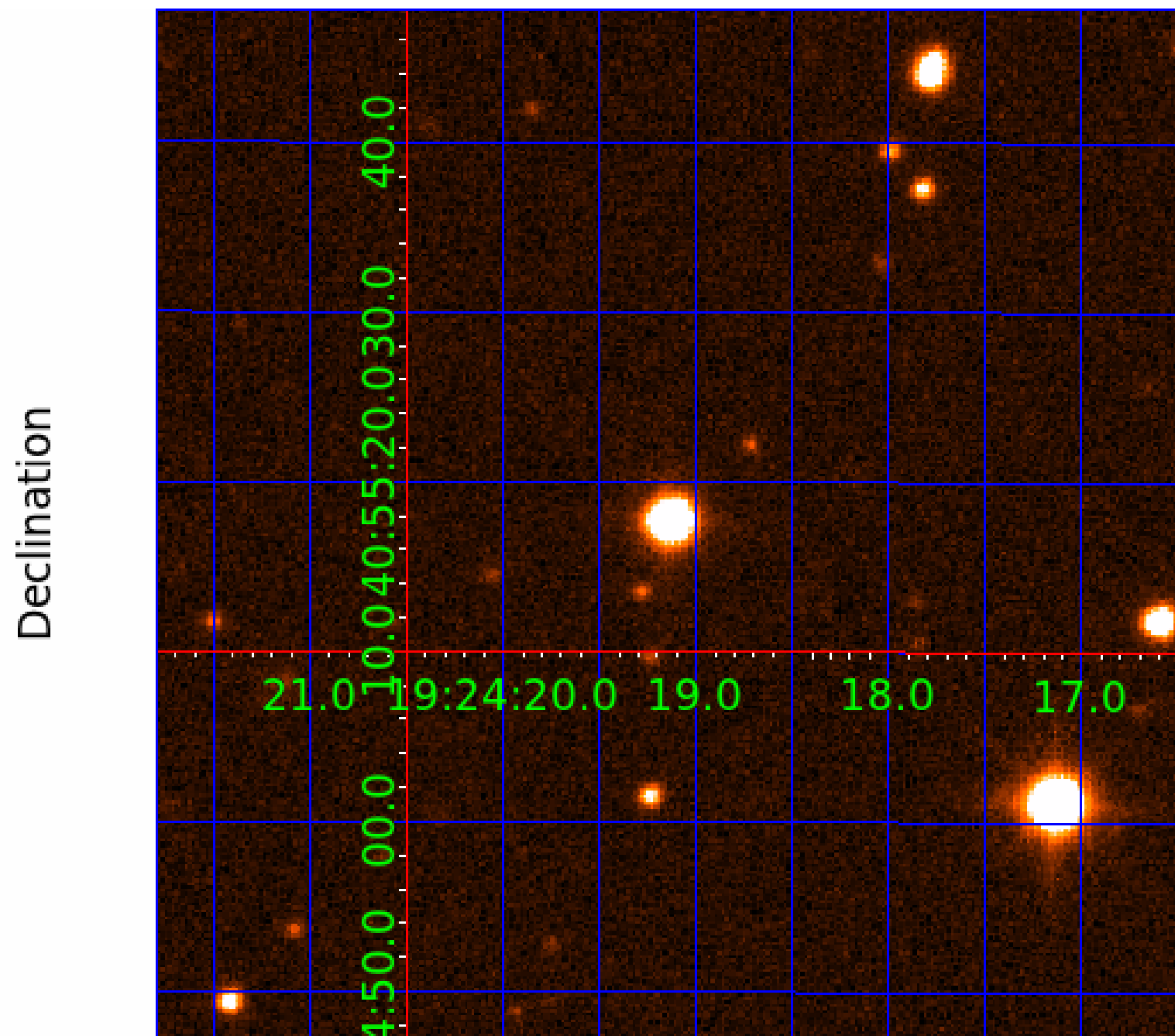
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 4



UKIRT Image



KIC 005703256

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})
005703256-01	OBS	No	0.731435	131.632246	15.5	5.351	9.4	10.3	0.93	6003	0.43	4380.03
005703256-02	OBS	No	20.461120	132.004744	197.9	4.622	12.3	5.4	0.93	6003	1.52	51.58
005703256-03	OBS	No	16.046324	138.531275	758.0	1.253	10.6	9.4	0.93	6003	2.58	71.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005703256-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
005703256-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_POS_ALT—CENT_FEW_DIFFS
005703256-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED

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

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

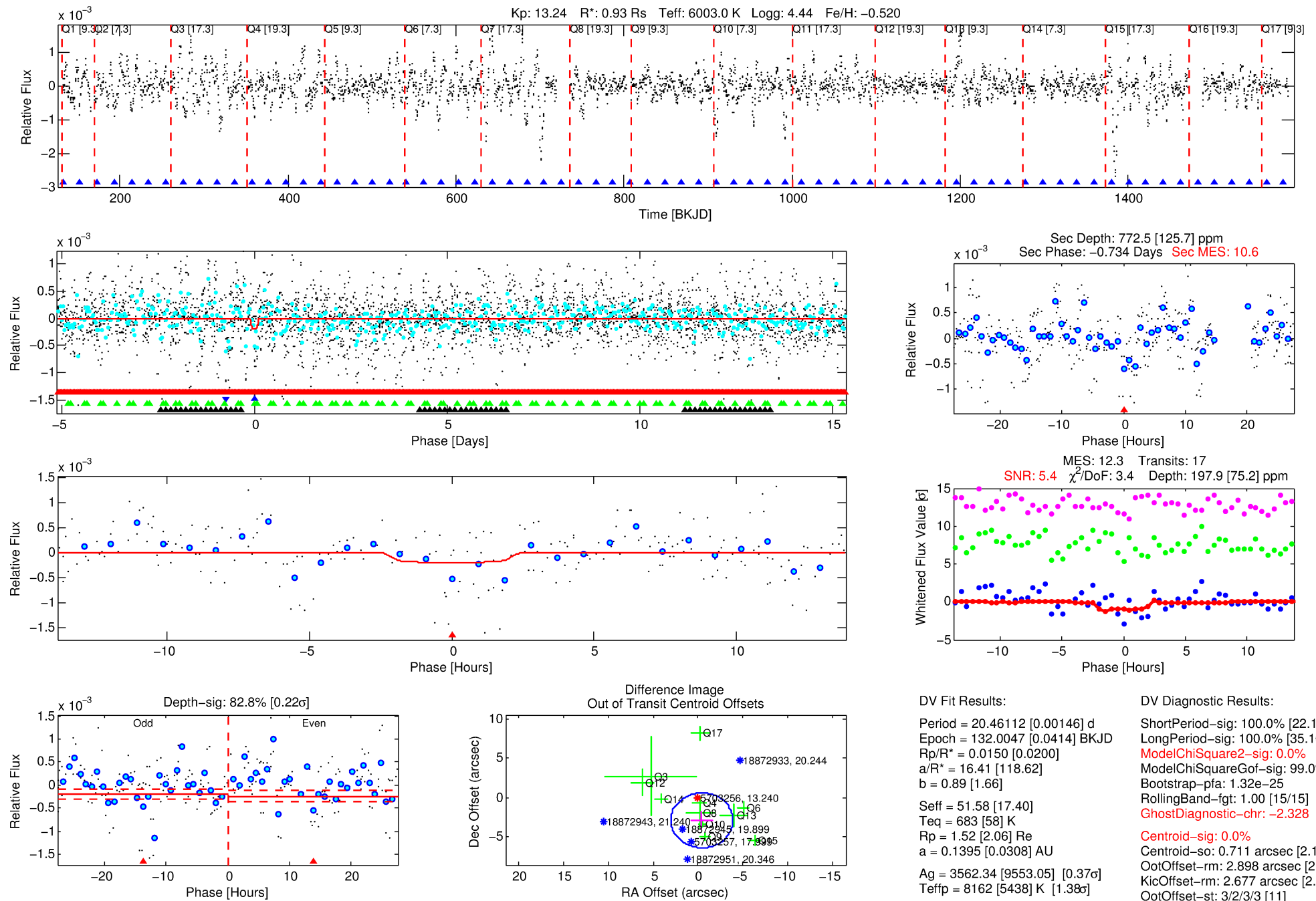
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005703256-02

No Significant Match Found

DV One-Page Summary

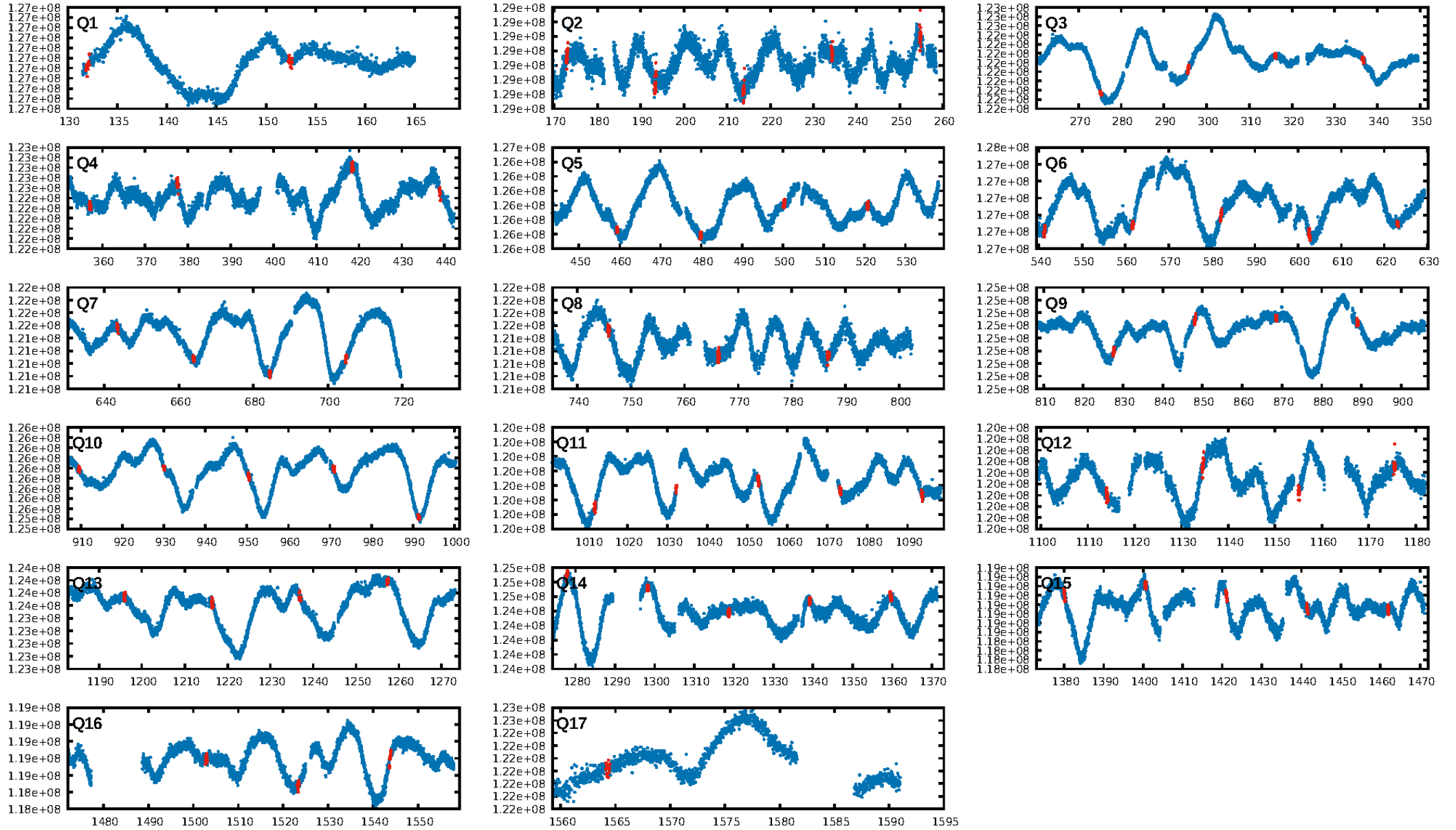
KIC: 5703256 Candidate: 2 of 4 Period: 20.461 d



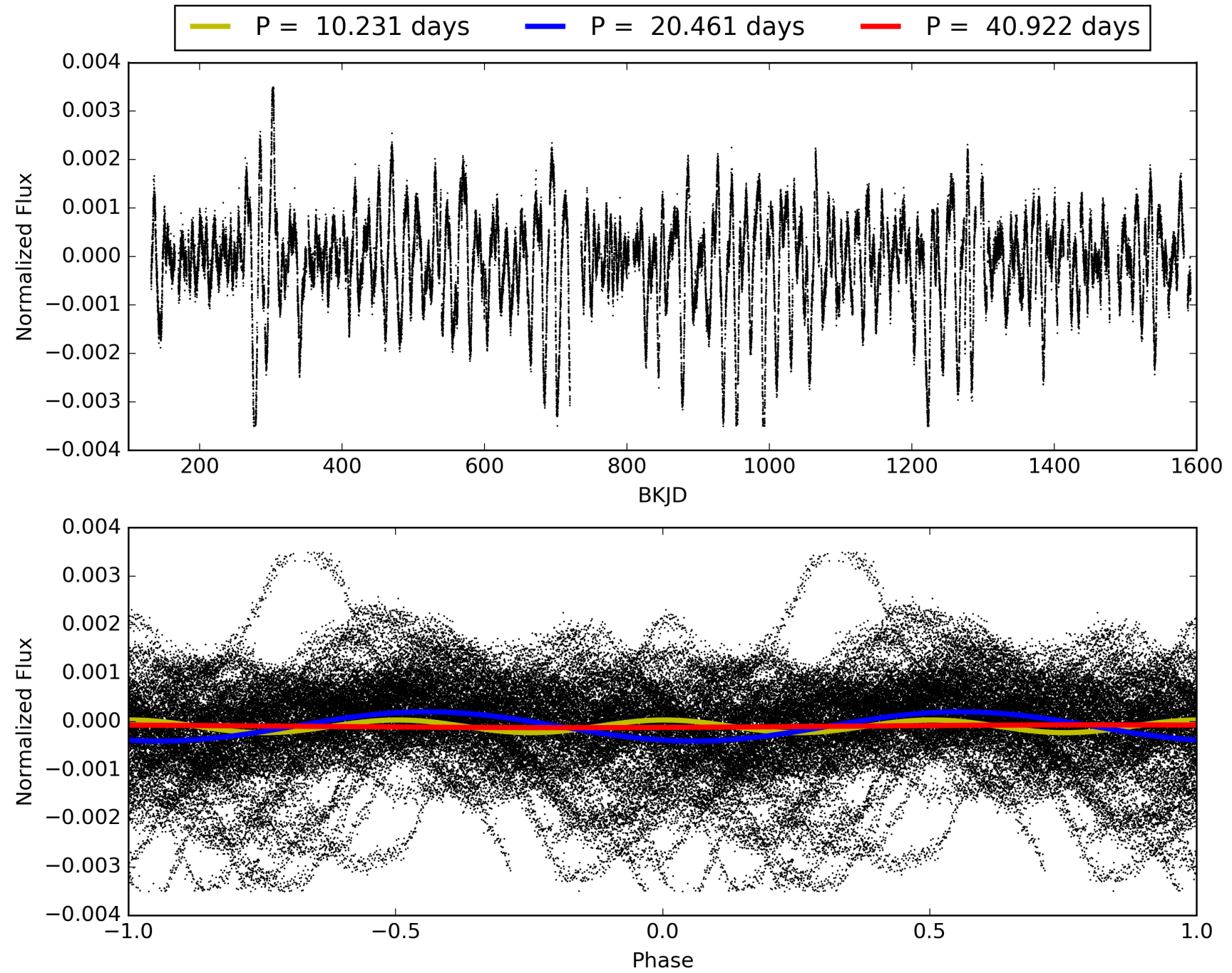
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 06:31:02 Z

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

TCE 005703256-02, PDC Light Curves

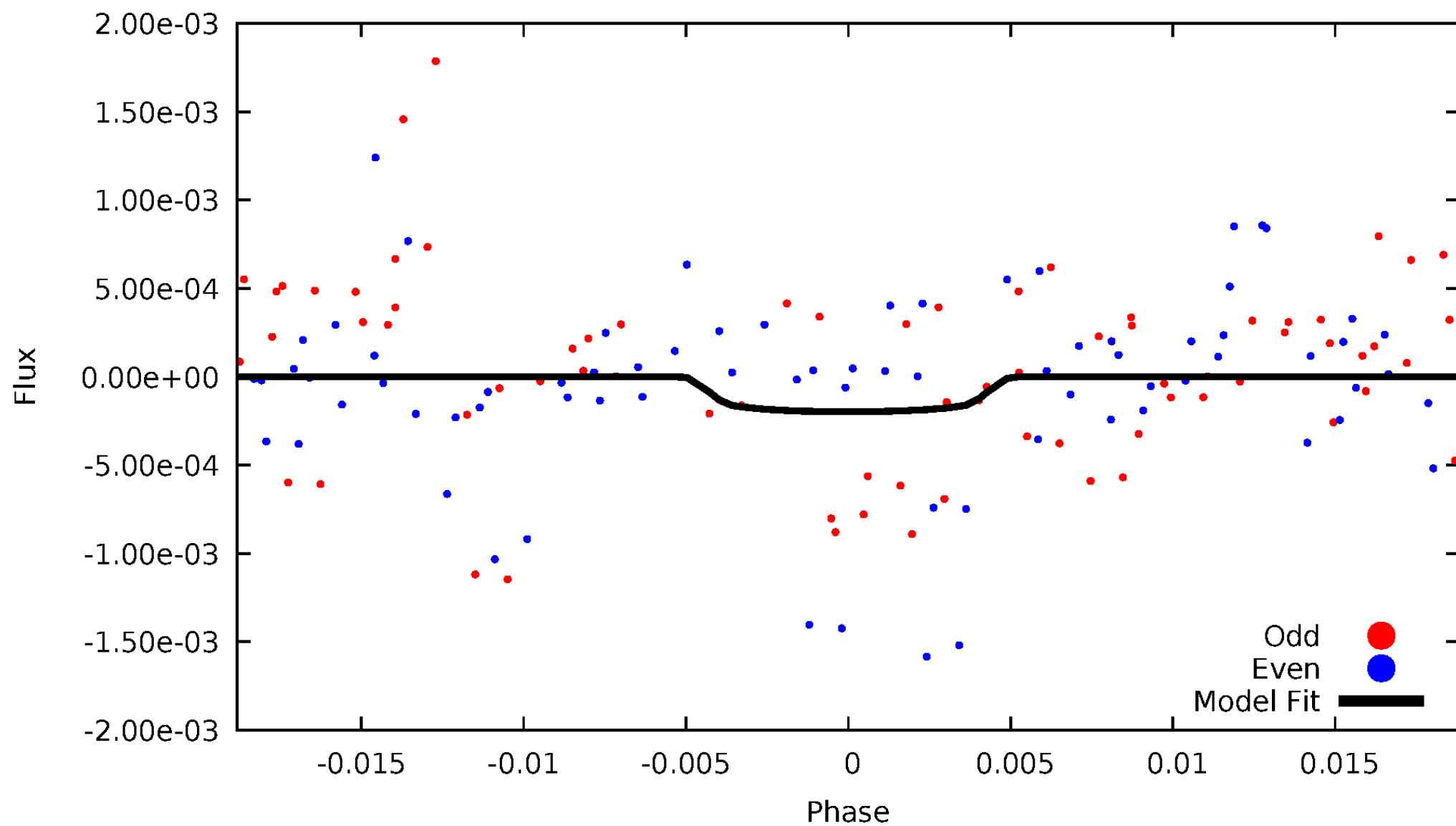


TCE 005703256-02



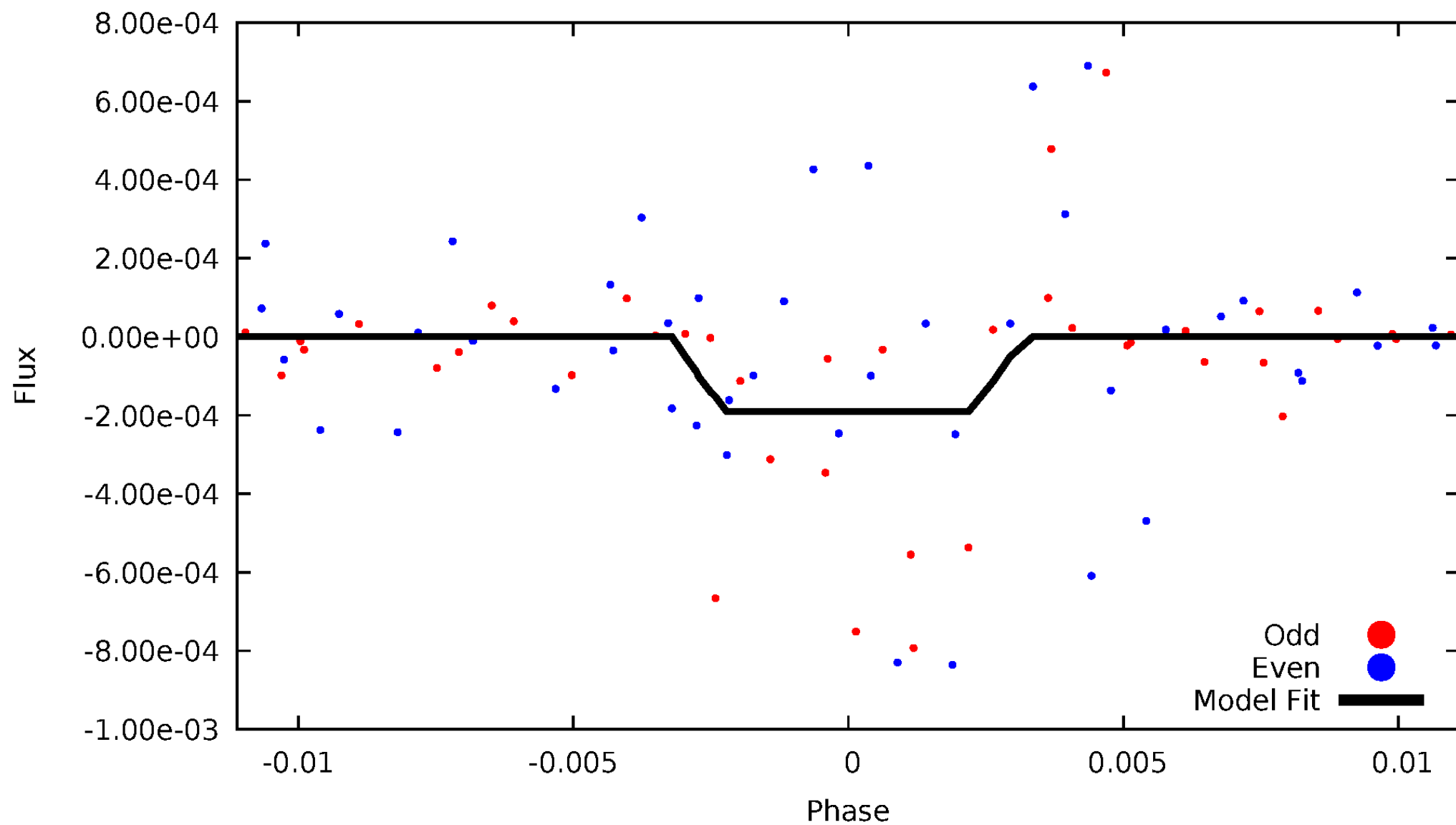
DV Odd/Even

TCE 005703256-02



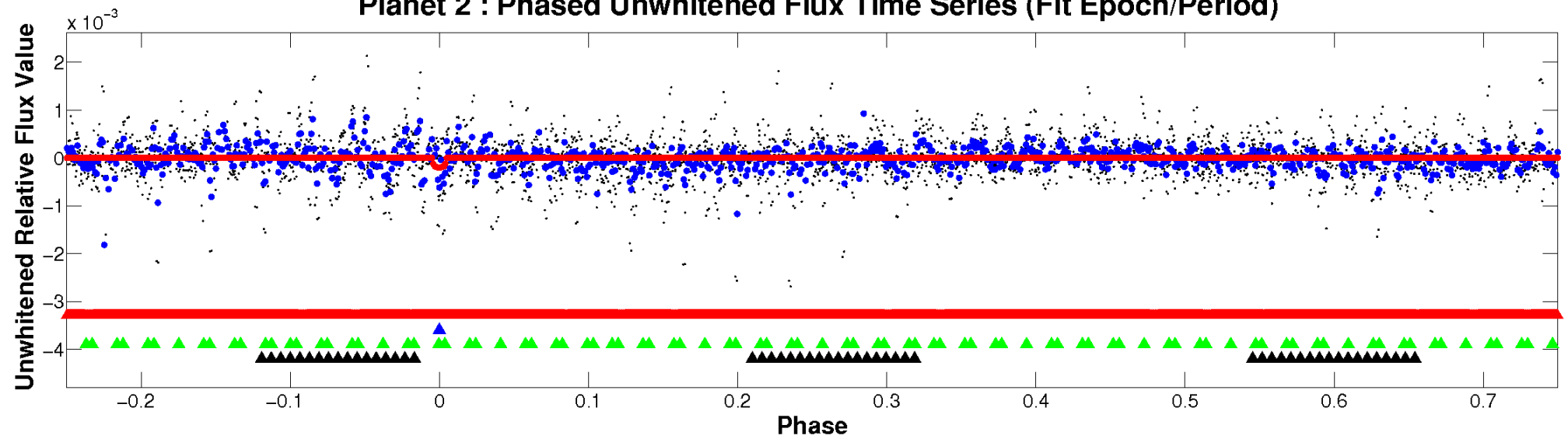
ALT Odd/Even

TCE 005703256-02

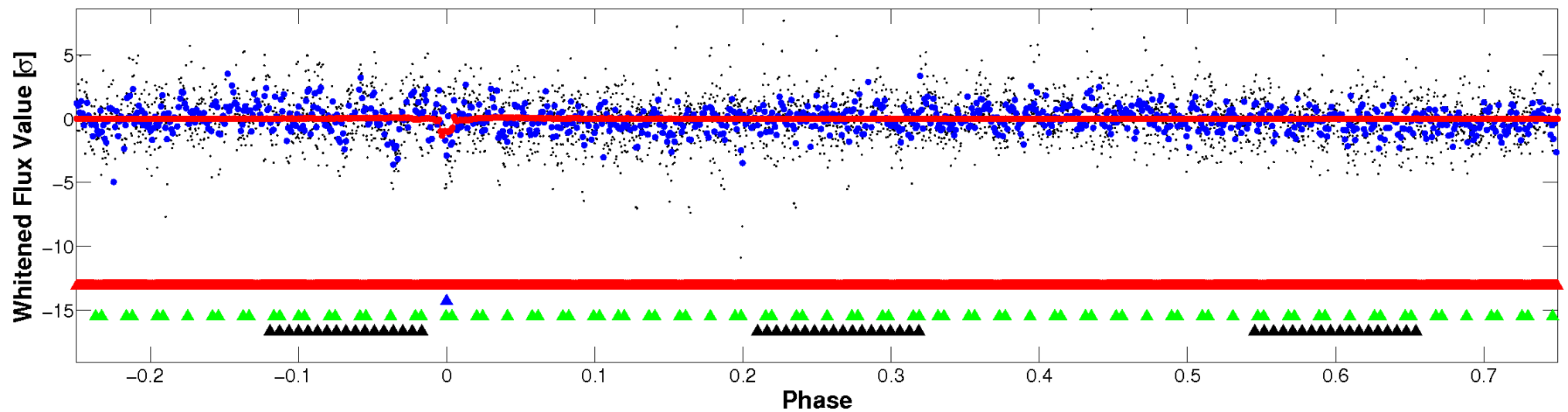


Non-Whitened Vs. Whitened Light Curve

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

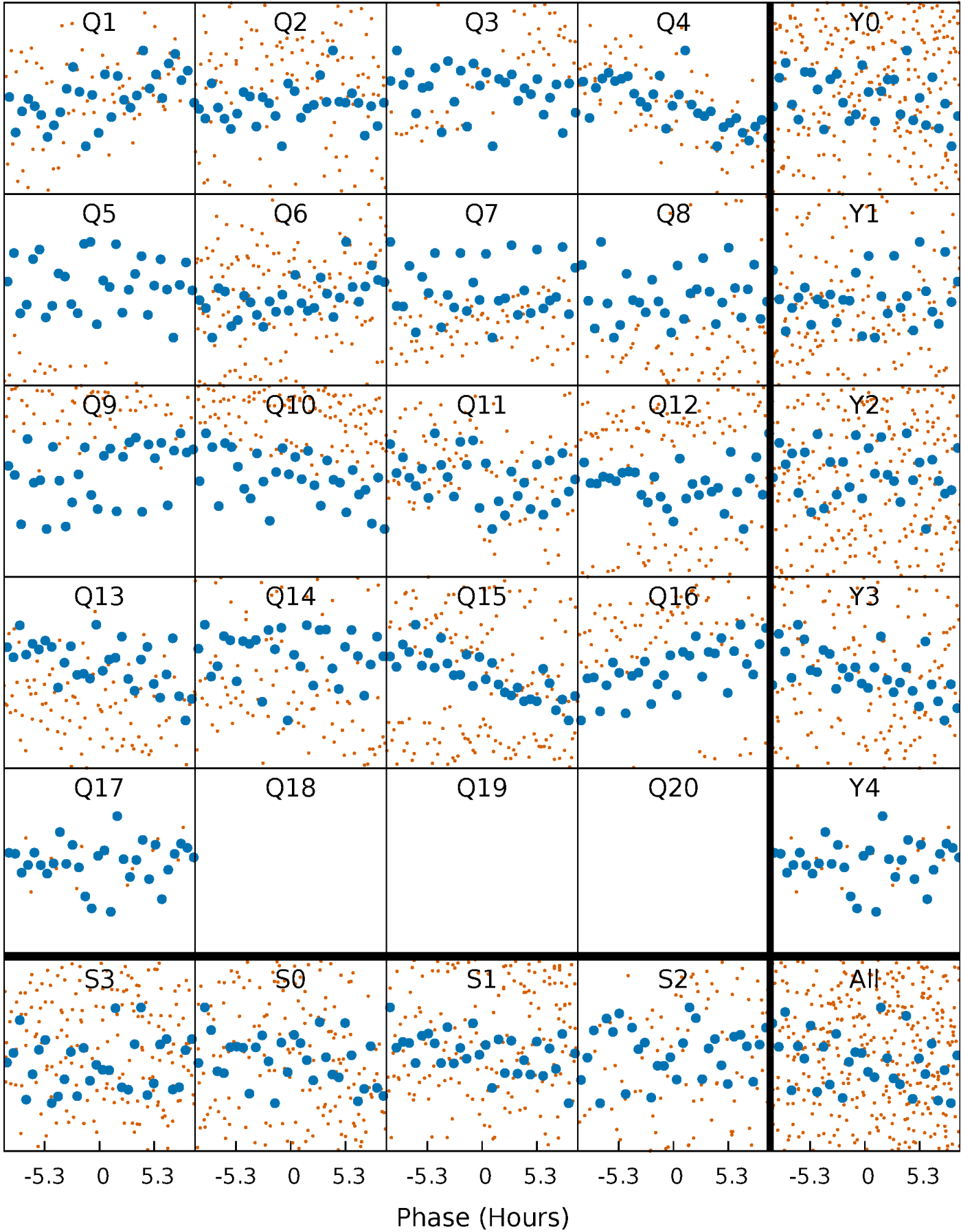


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



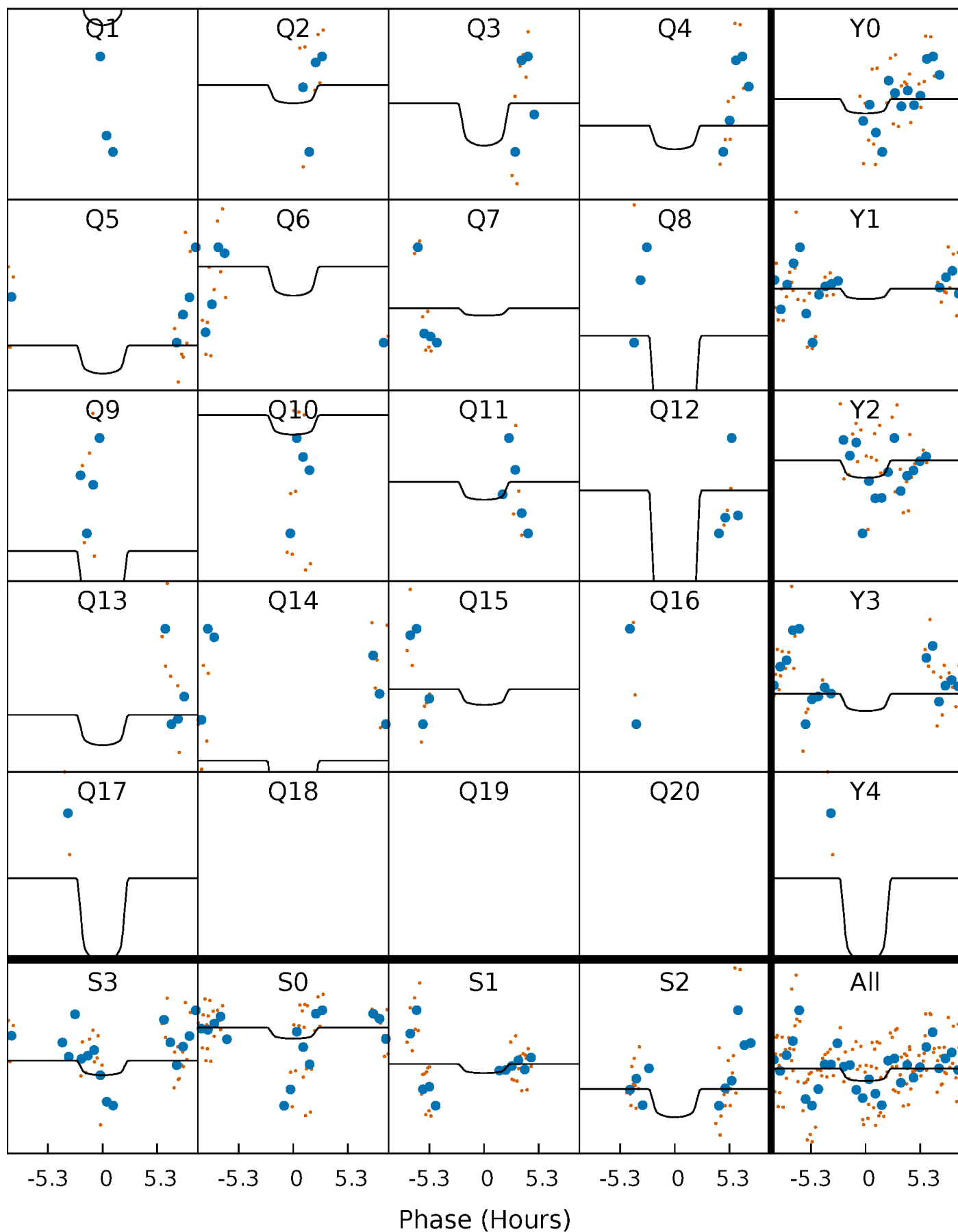
PDC Quarter-Phased Transit Curves

TCE 005703256-02 P= 20.461120 Days $T_0=132.004744$ (BKJD)



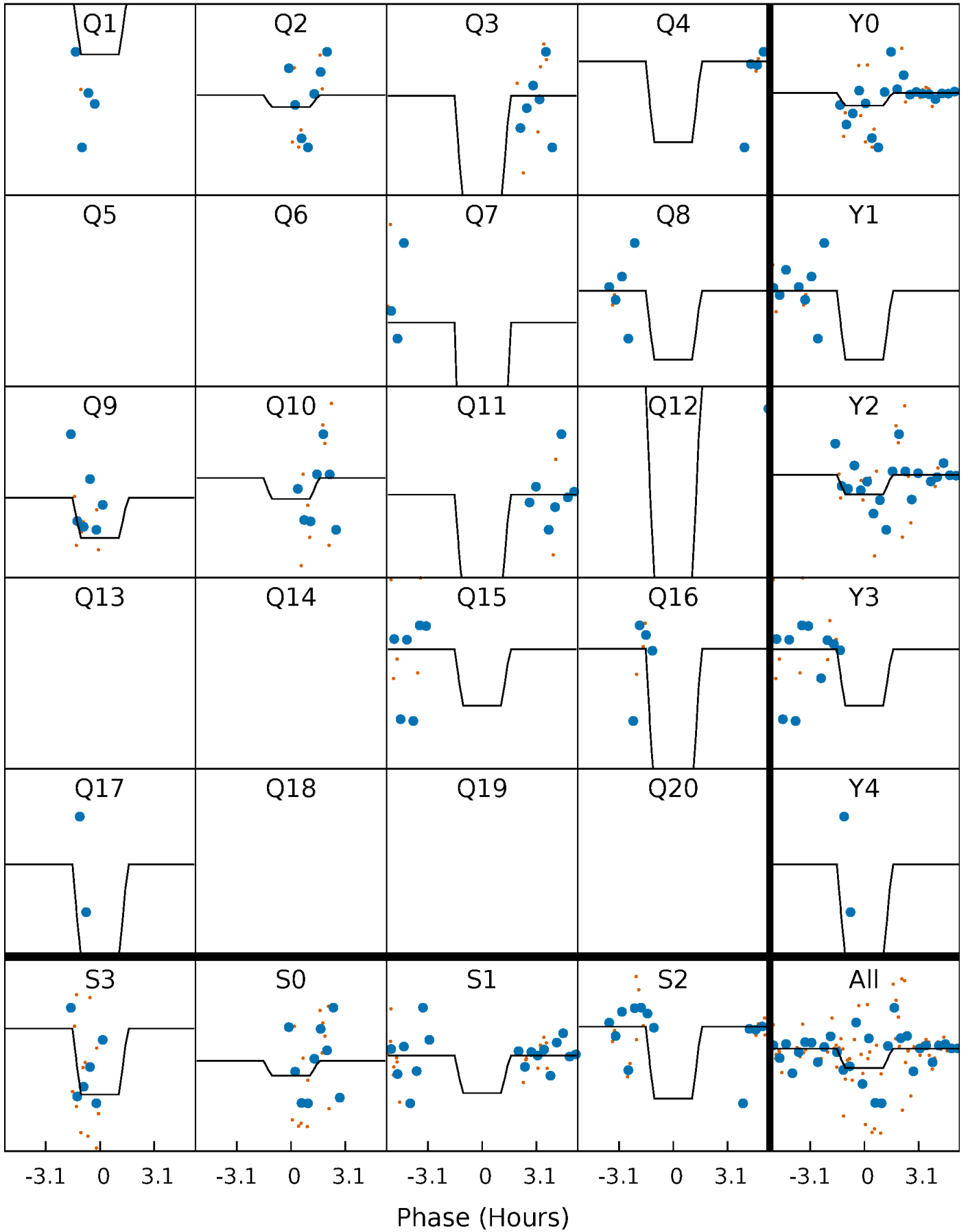
DV Quarter-Phased Transit Curves

TCE 005703256-02 P= 20.461120 Days $T_0=132.004744$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

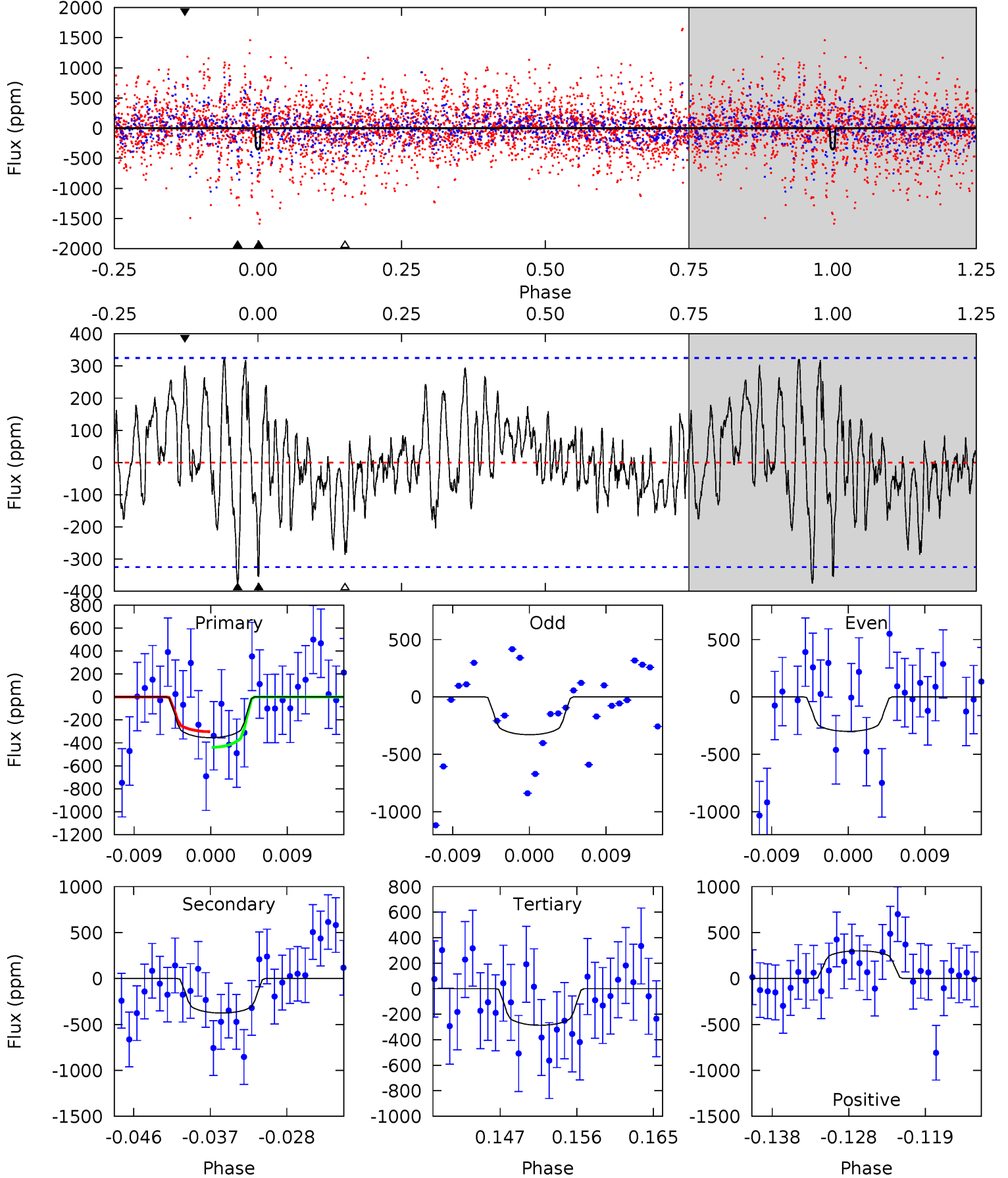
TCE 005703256-02 P= 20.459111 Days $T_0=132.048131$ (BKJD)



DV Model-Shift Uniqueness Test

005703256-02, P = 20.461120 Days, E = 111.543624 Days

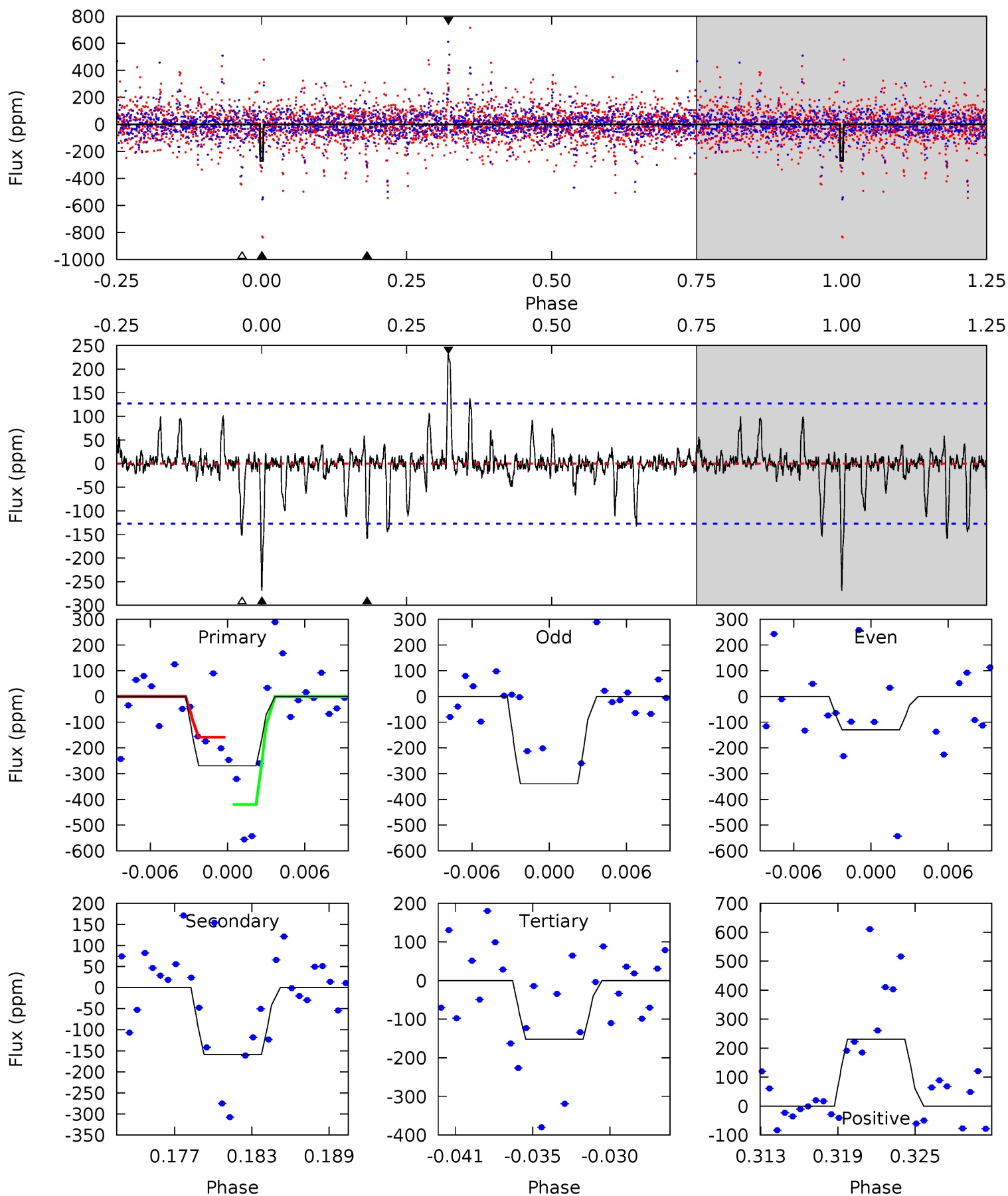
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.51	5.84	4.45	4.67	5.04	2.61	1.68	1.06	0.84	1.39	1.17	0.21	1.90	0.46	1.05



Alt Model-Shift Uniqueness Test

005703256-02, P = 20.459111 Days, E = 111.589020 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.8	6.41	6.13	9.31	5.13	2.75	1.33	4.72	1.54	0.28	-2.90	3.82	2.33	0.46	5.28



Stellar Parameters For KIC 005703256

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6003^{+161}_{-161}	$4.439^{+0.116}_{-0.174}$	$-0.520^{+0.300}_{-0.300}$	$0.929^{+0.245}_{-0.132}$	$0.864^{+0.108}_{-0.081}$	$1.520^{+0.678}_{-0.718}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-14%	+12%/-9%	+45%/-47%
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 005703256-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-376 ± 64	$2.13^{+1.90}_{-1.42}$	963^{+62}_{-52}	5815^{+5767}_{-1350}	909^{+6760}_{-659}
Alt.	-159 ± 25	$2.02^{+1.84}_{-1.28}$	956^{+66}_{-48}	4846^{+3282}_{-1022}	398^{+2551}_{-287}

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 $A_{obs} \gg 1.0$

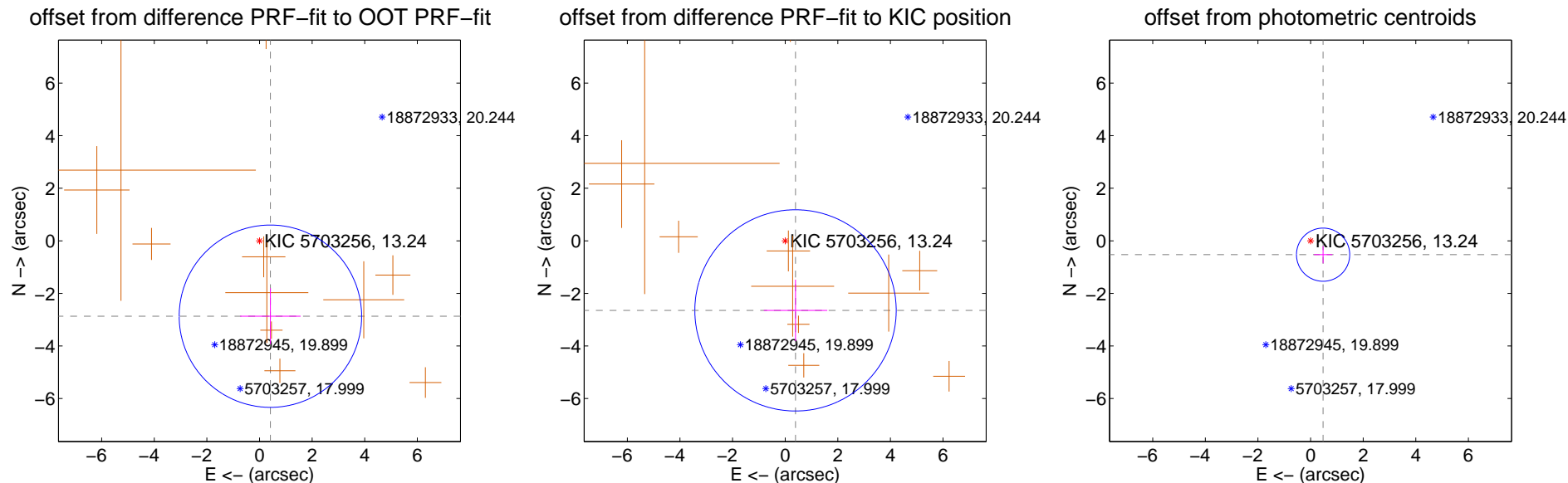
DV Centroid Data

Supplemental centroid analysis for 005703256-02. Kepler magnitude: 13.24. Transit SNR 5.41

There are 0 quarters with good PRF difference image offsets

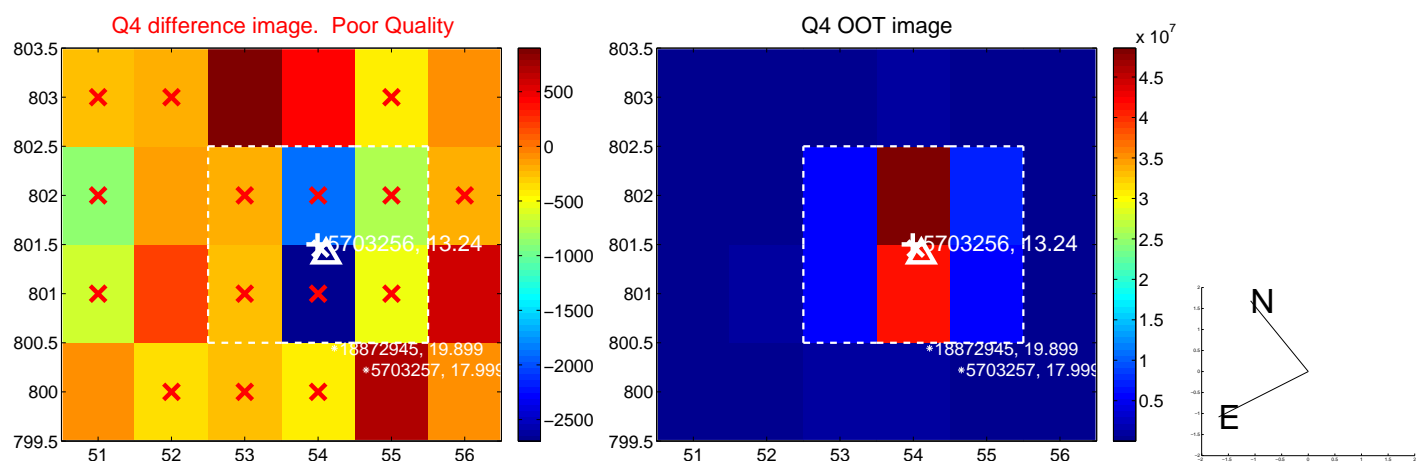
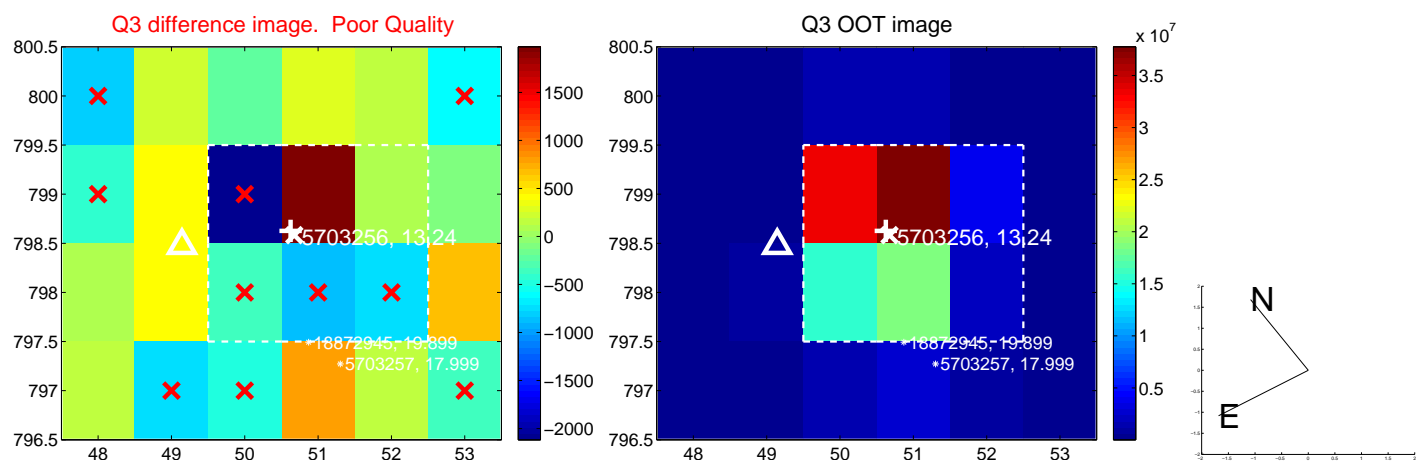
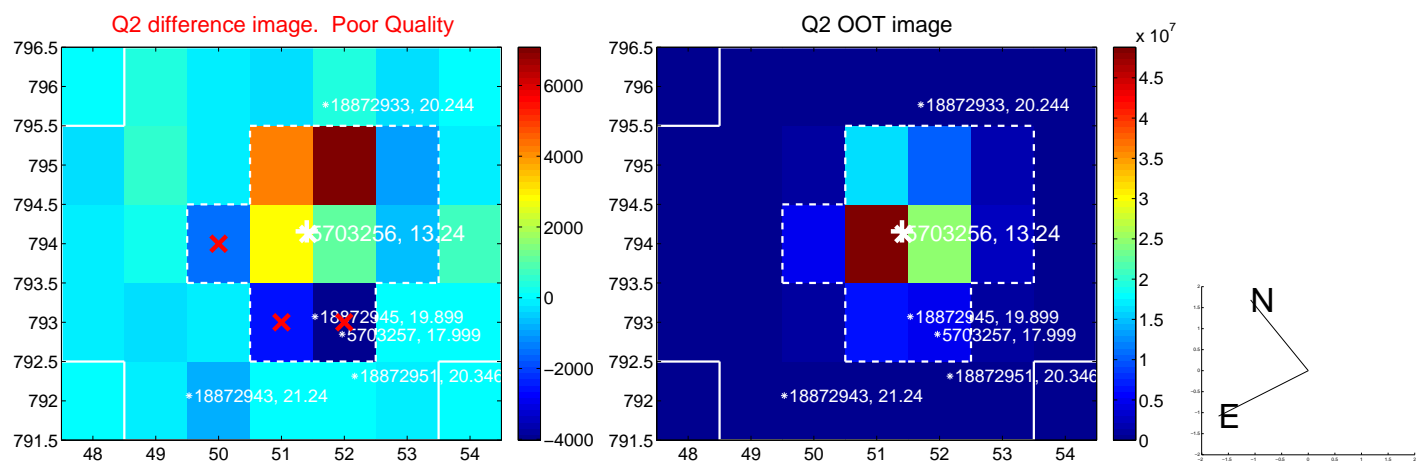
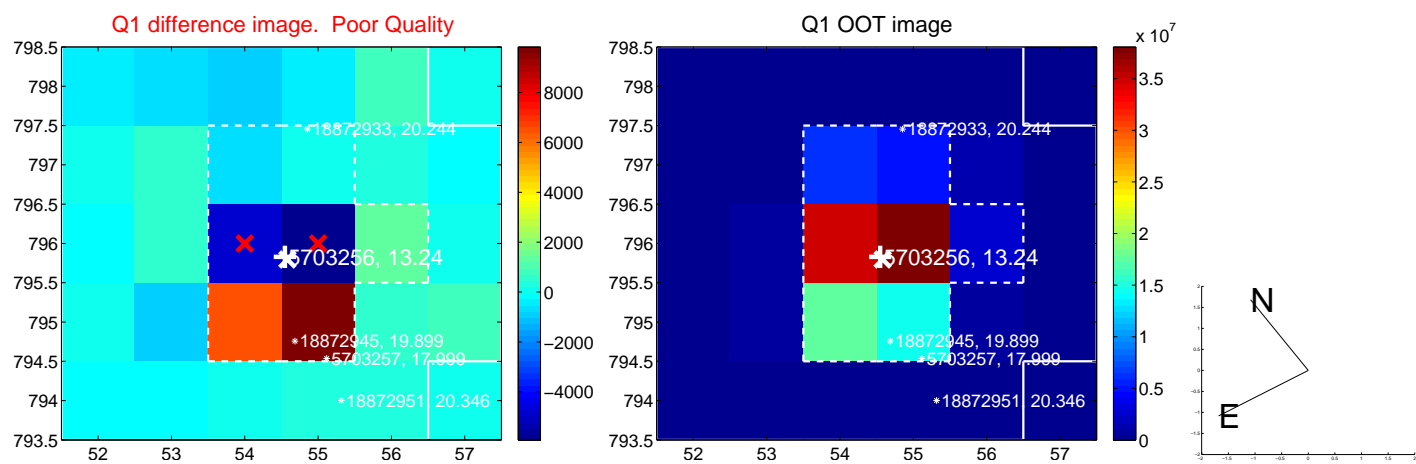
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.898 ± 1.156	2.51	-0.414 ± 1.151	-2.869 ± 1.067
PRF-fit source offset from KIC position	2.677 ± 1.276	2.10	-0.393 ± 1.206	-2.648 ± 1.171
photometric centroid source offset	0.71 ± 0.34	2.11	-0.48 ± 0.35	-0.53 ± 0.33

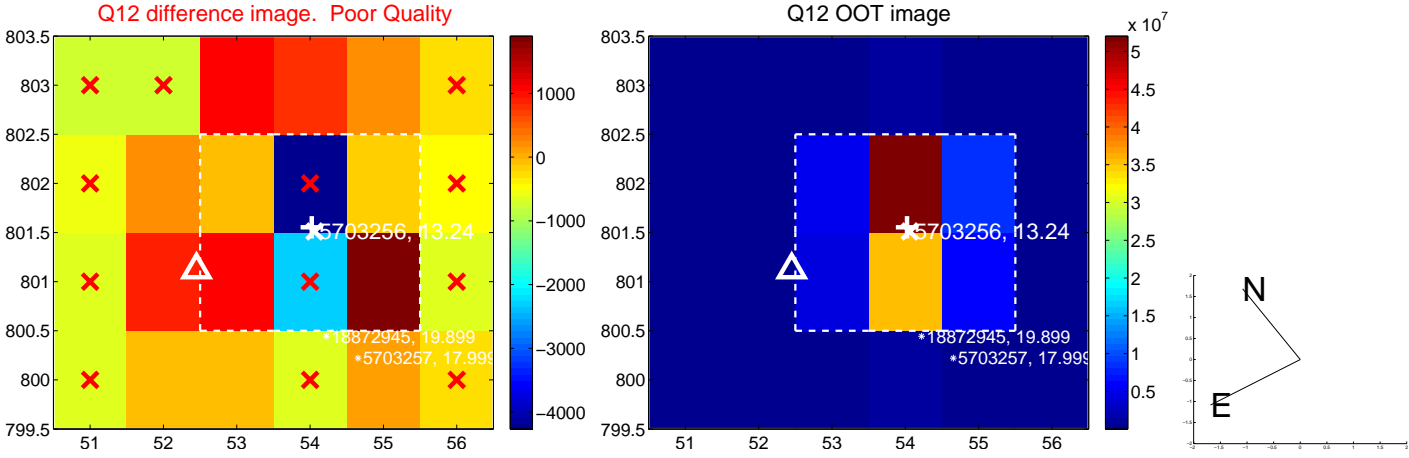
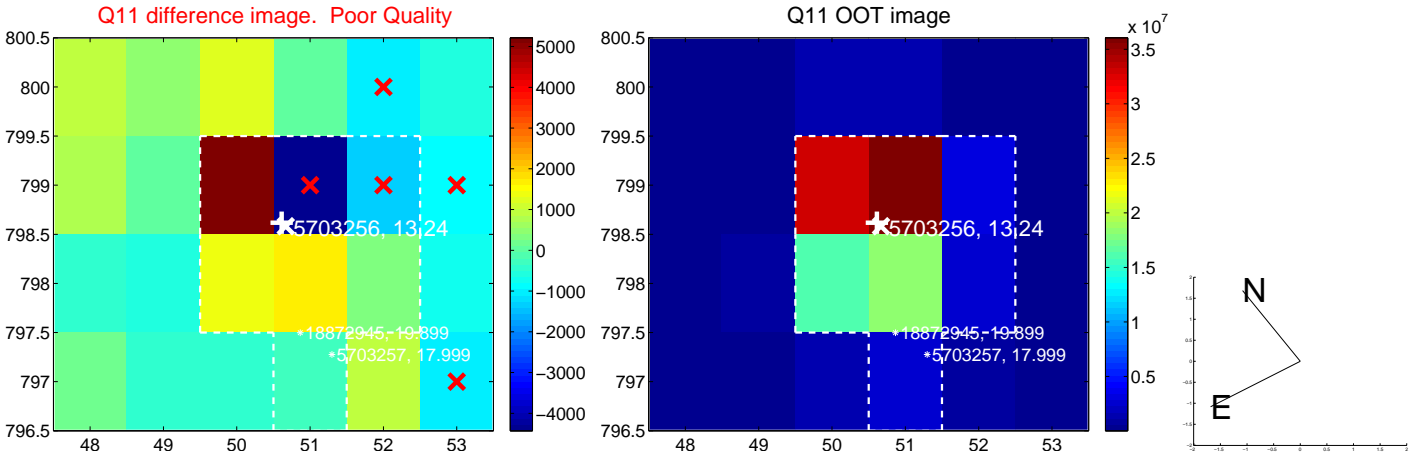
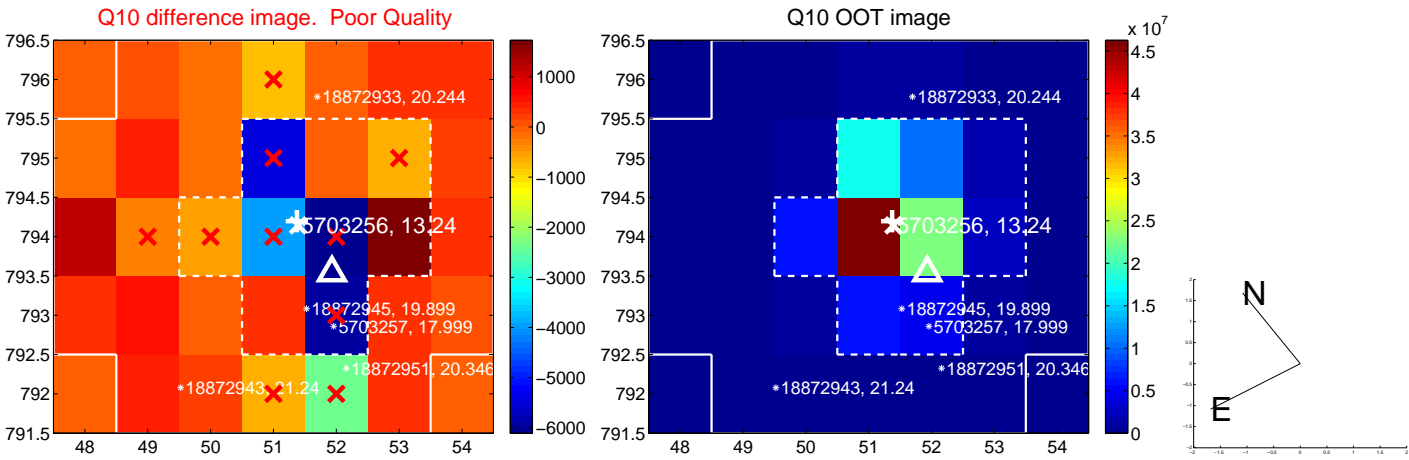
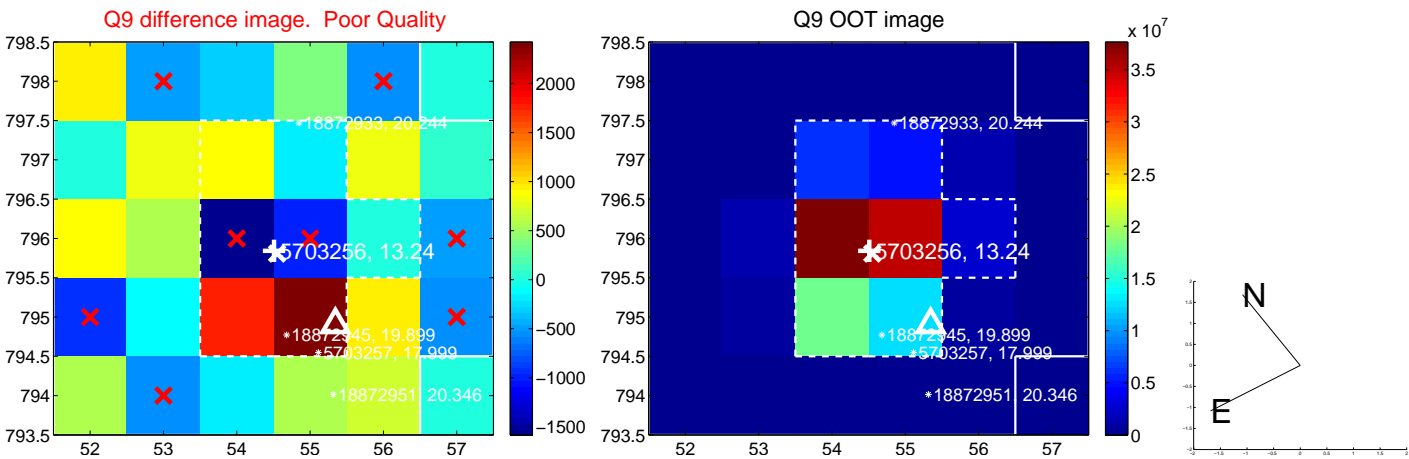


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

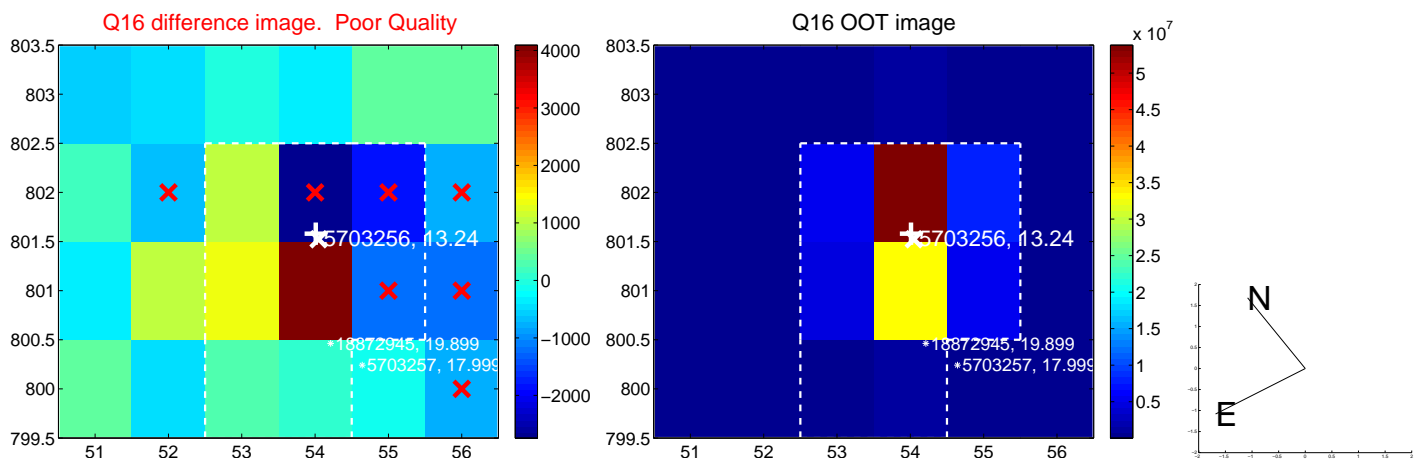
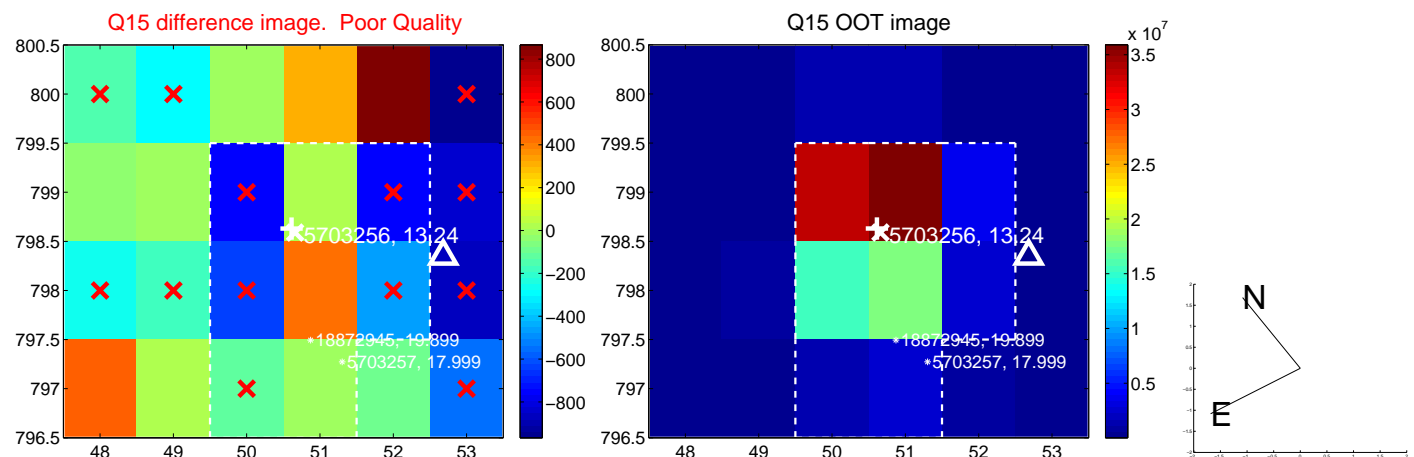
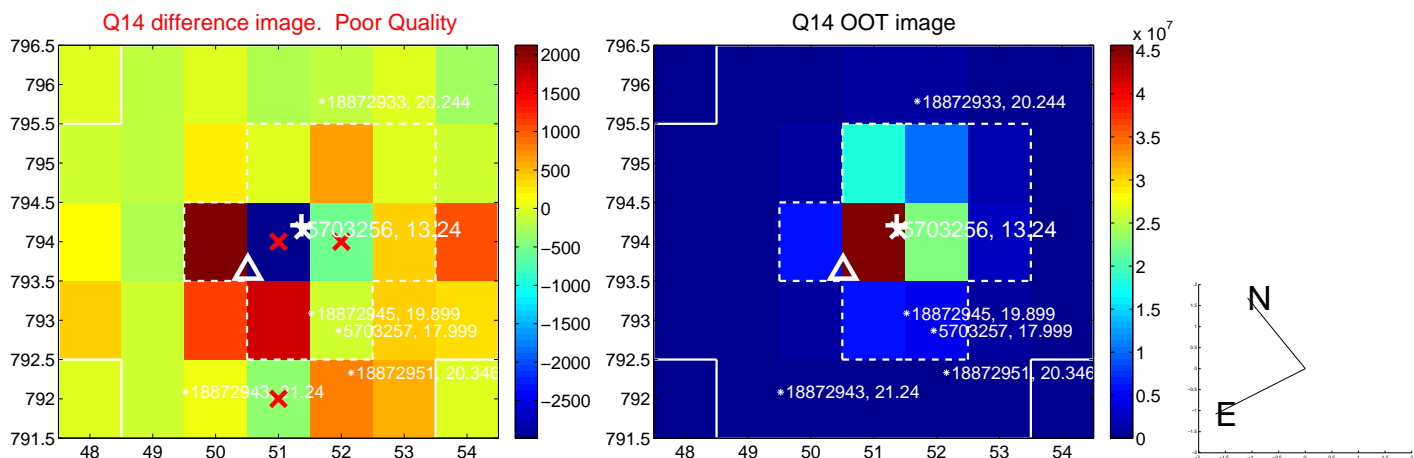
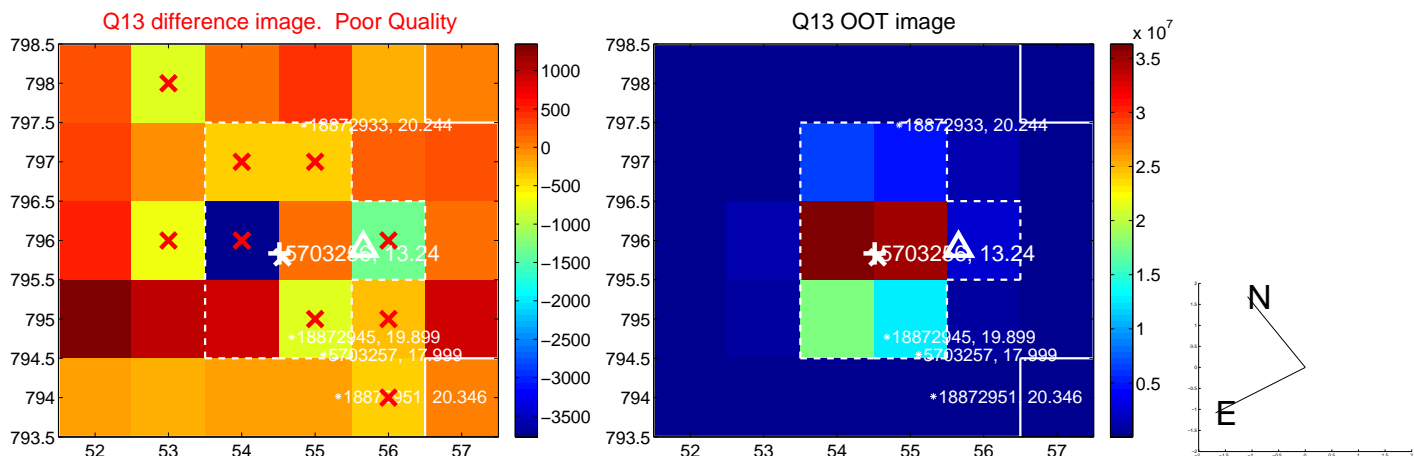
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



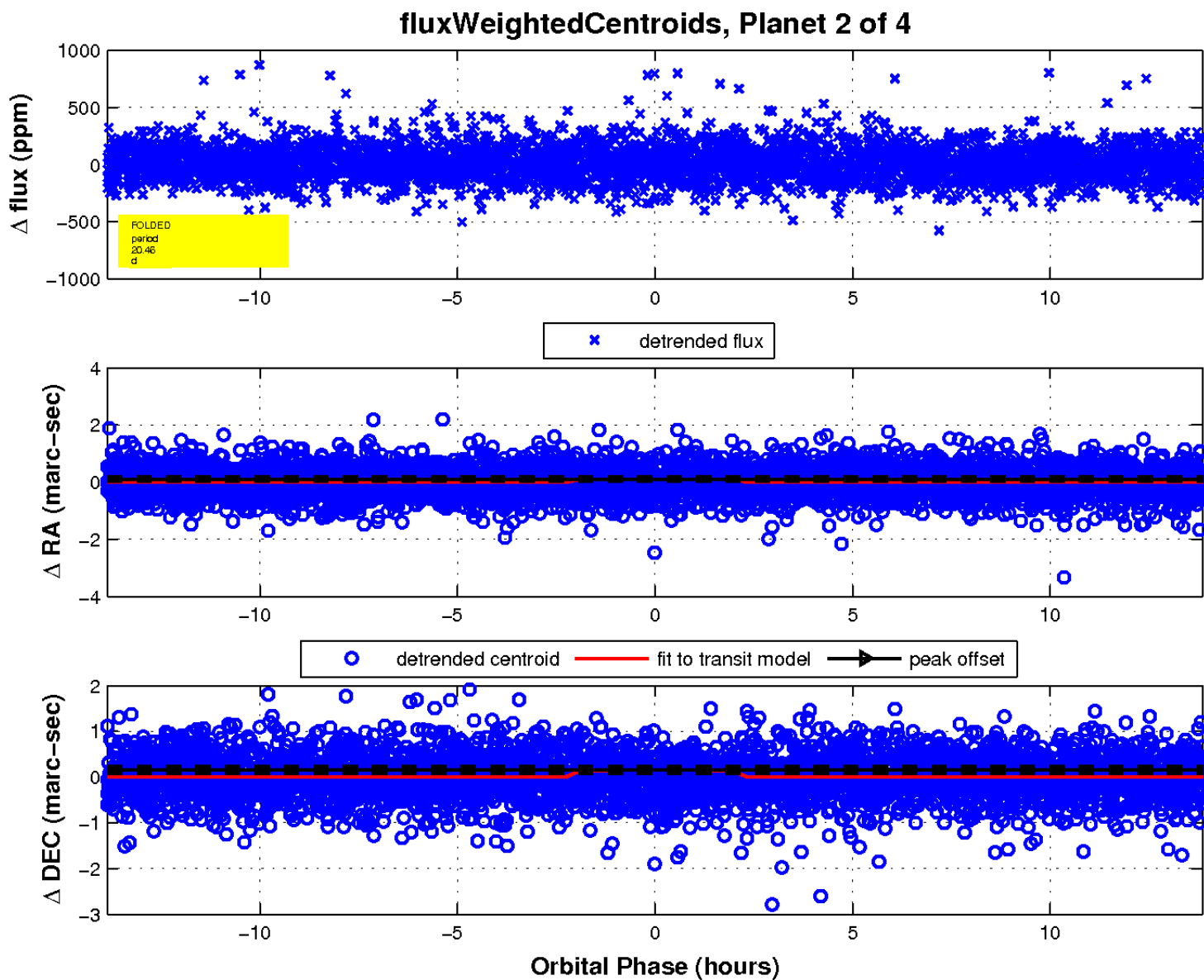
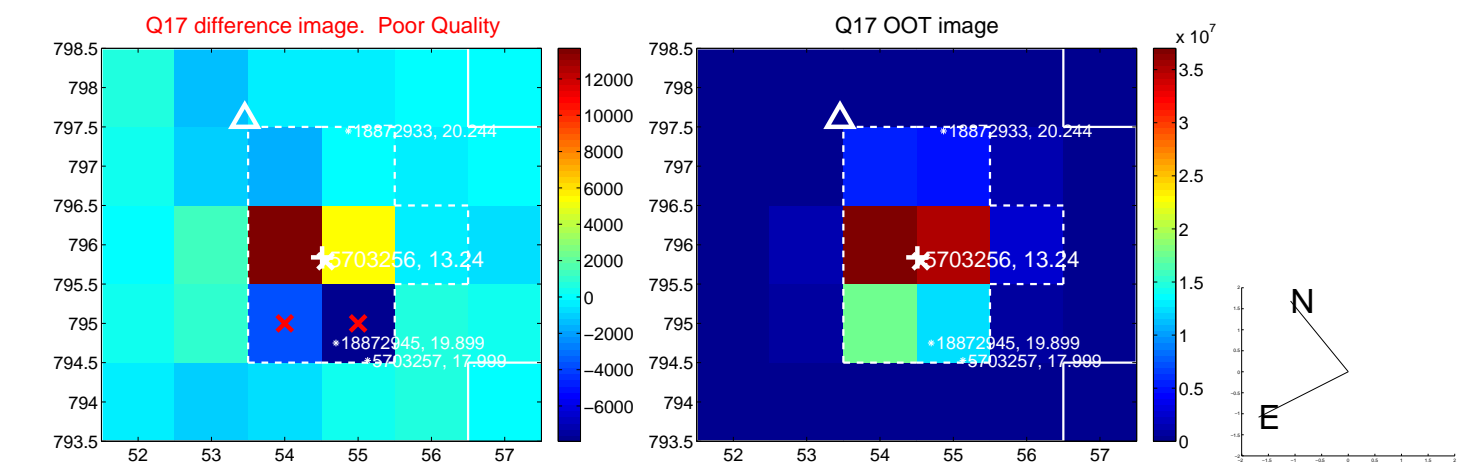
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



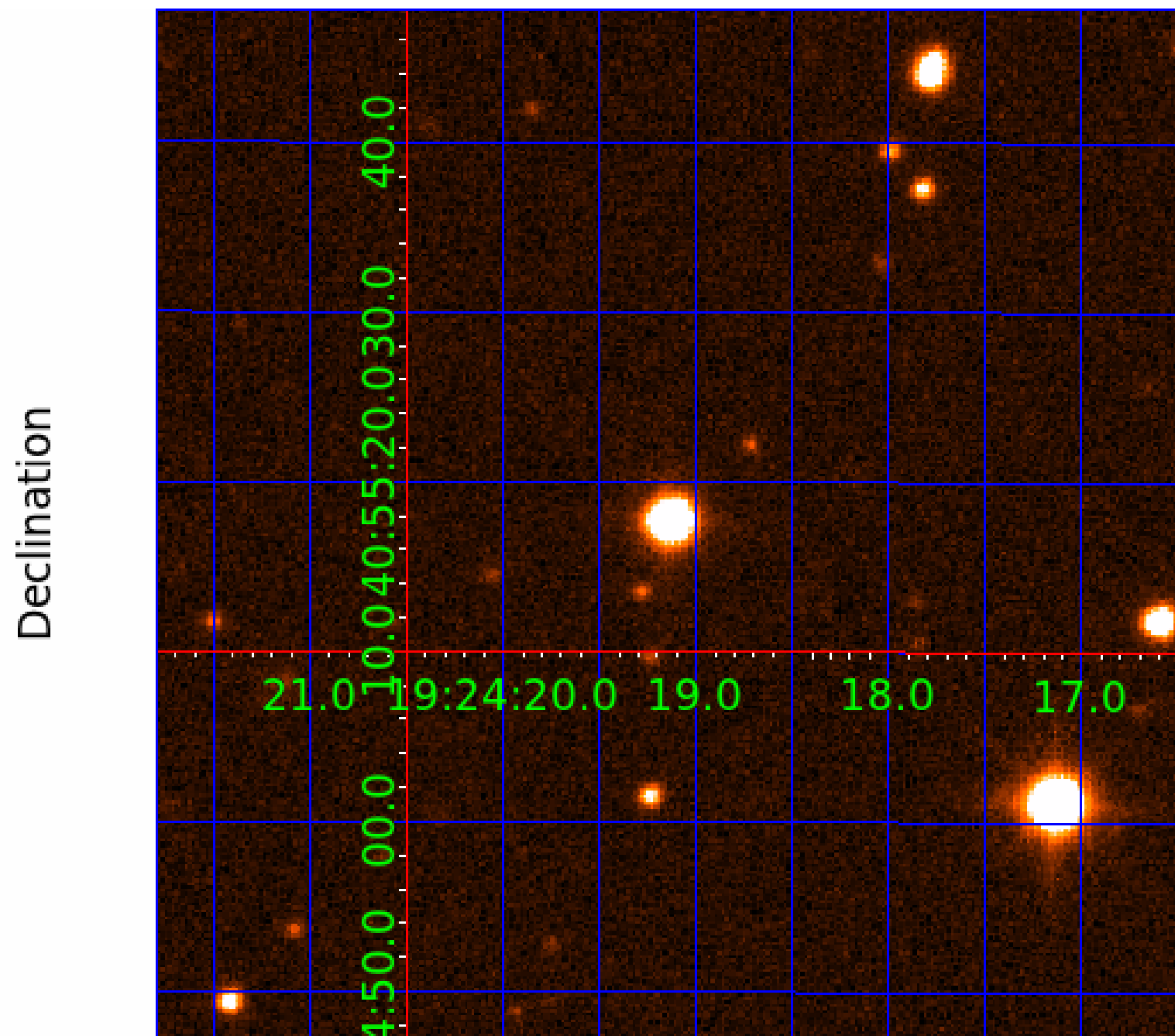
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 005703256

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})
005703256-01	OBS	No	0.731435	131.632246	15.5	5.351	9.4	10.3	0.93	6003	0.43	4380.03
005703256-02	OBS	No	20.461120	132.004744	197.9	4.622	12.3	5.4	0.93	6003	1.52	51.58
005703256-03	OBS	No	16.046324	138.531275	758.0	1.253	10.6	9.4	0.93	6003	2.58	71.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005703256-01	OBS	FP	0.00	1	0	1	0	LPP_DV—CENT_FEW_DIFFS—HALO_GHOST
005703256-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_POS_ALT—CENT_FEW_DIFFS
005703256-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED

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

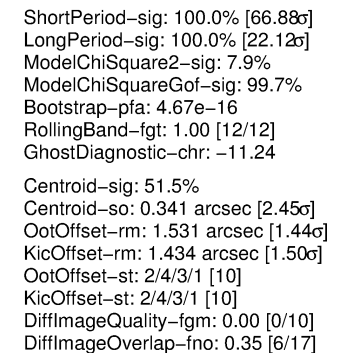
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

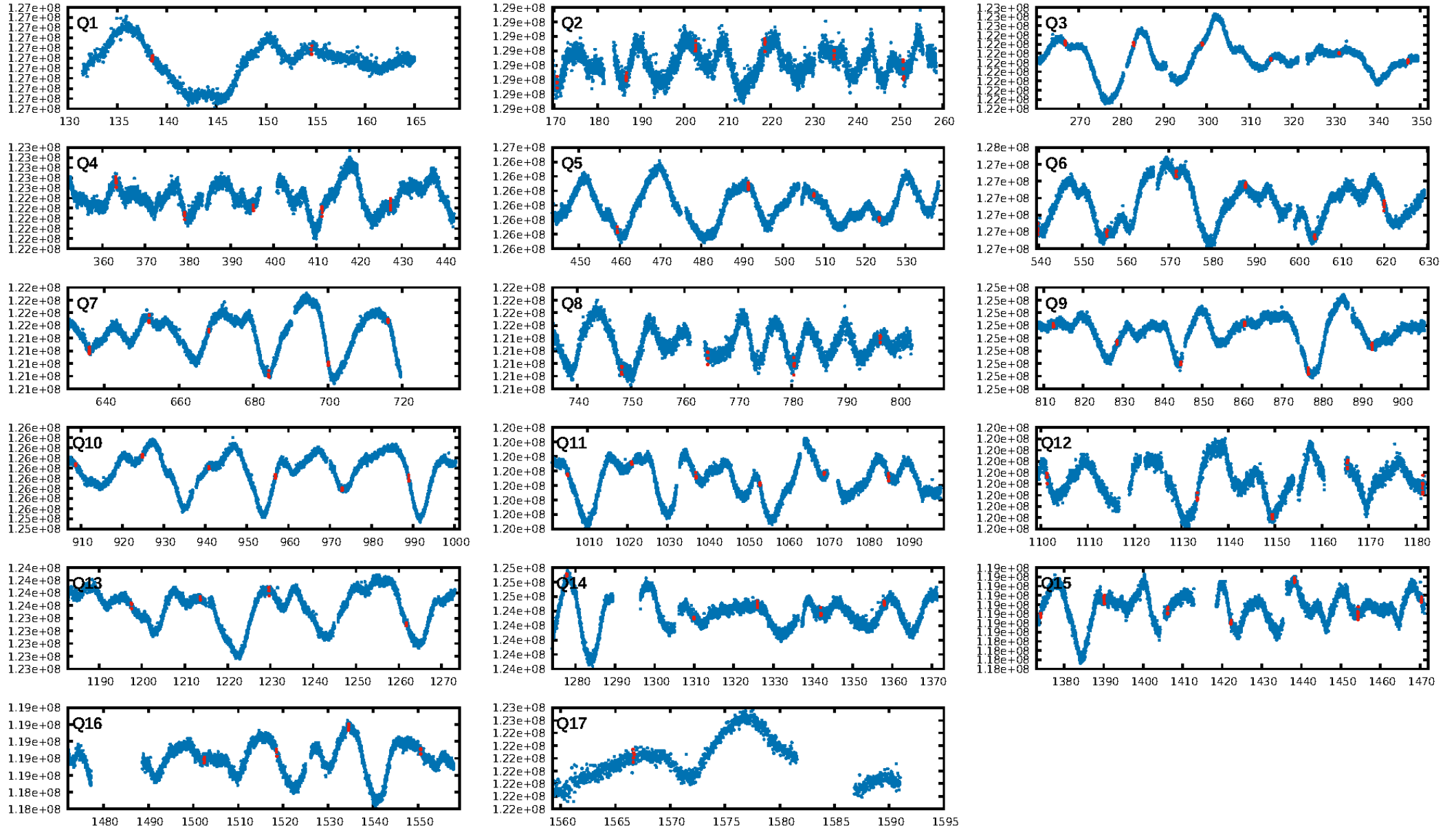
Ephemeris Match Information For 005703256-03

No Significant Match Found

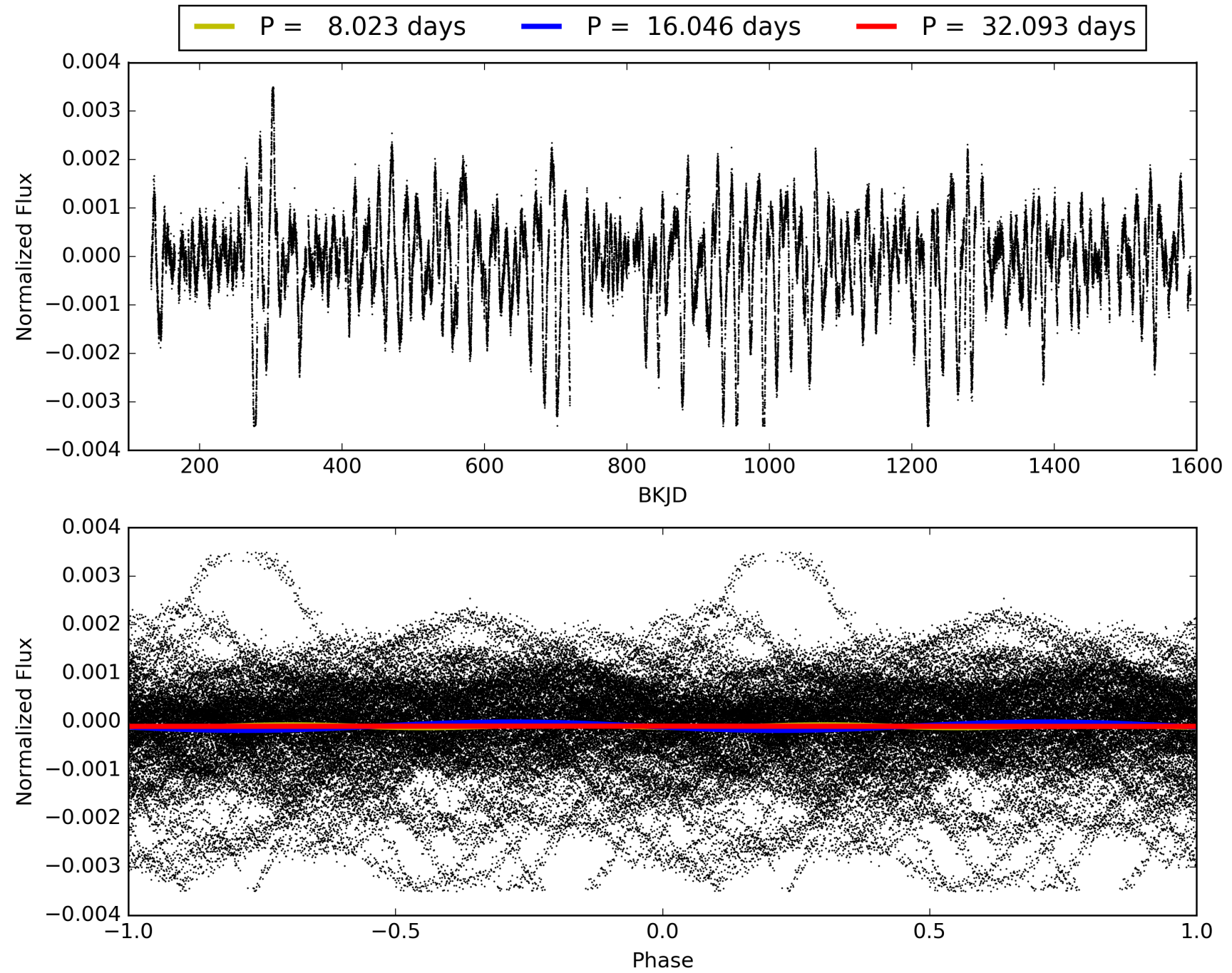
KIC: 5703256 Candidate: 3 of 4 Period: 16.046 d



TCE 005703256-03, PDC Light Curves

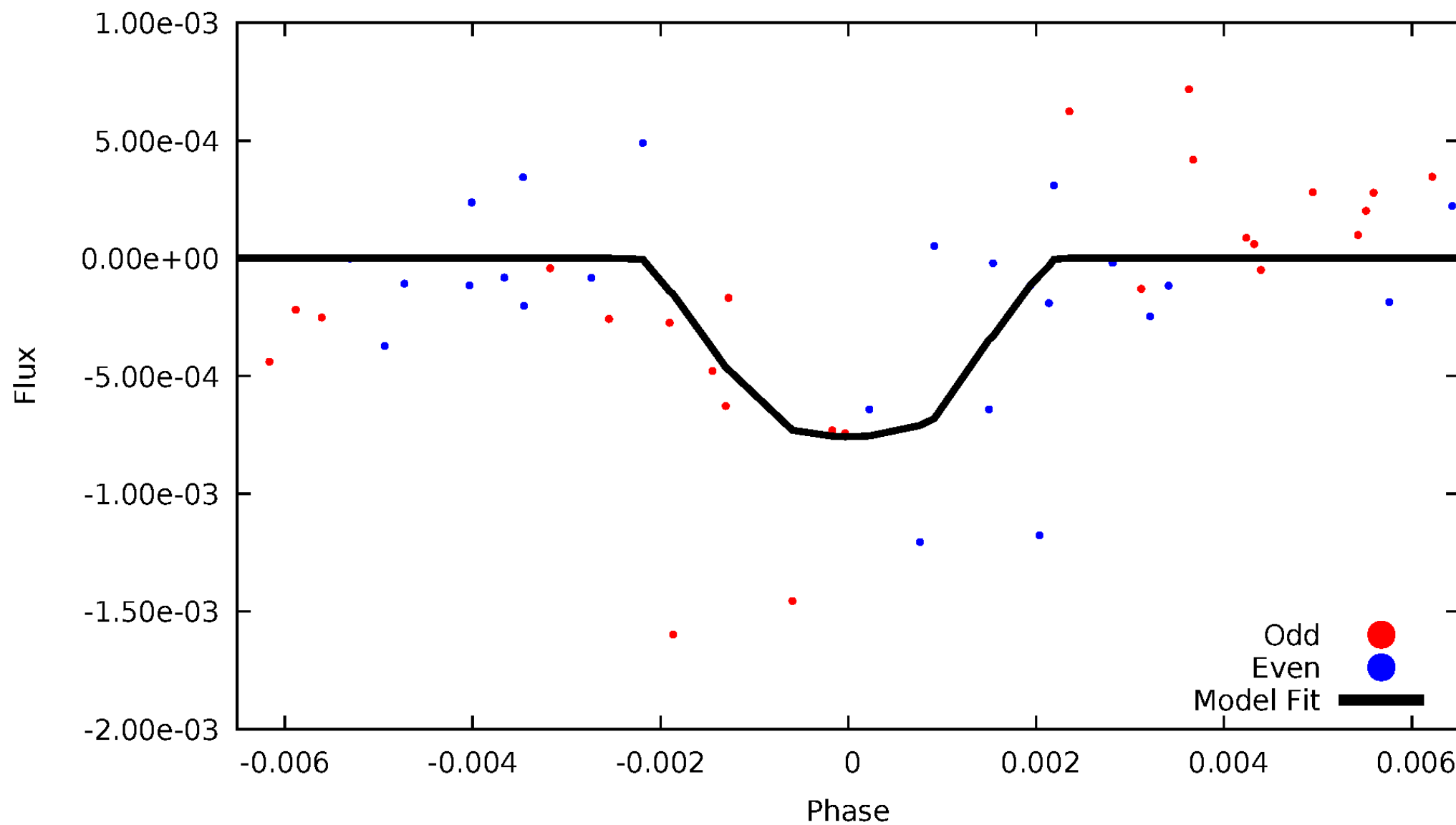


TCE 005703256-03



DV Odd/Even

TCE 005703256-03

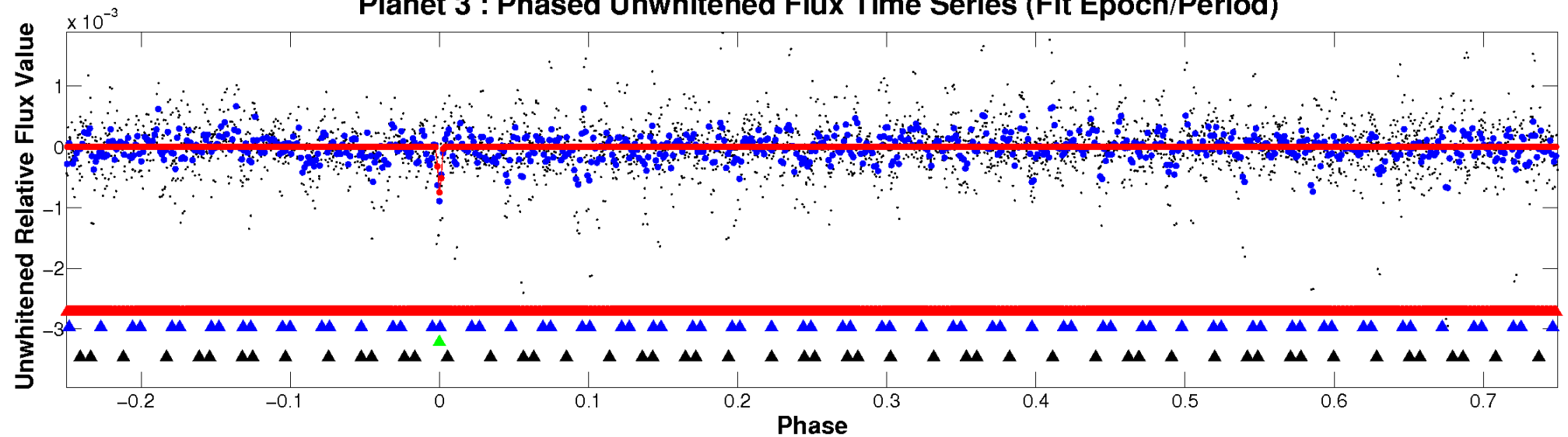


ALT Odd/Even

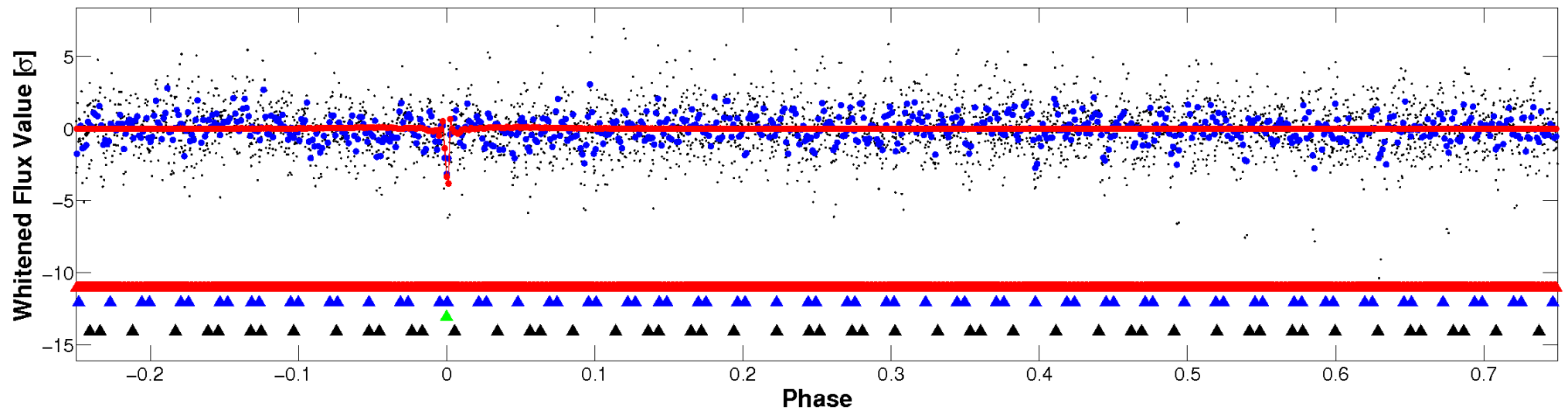
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

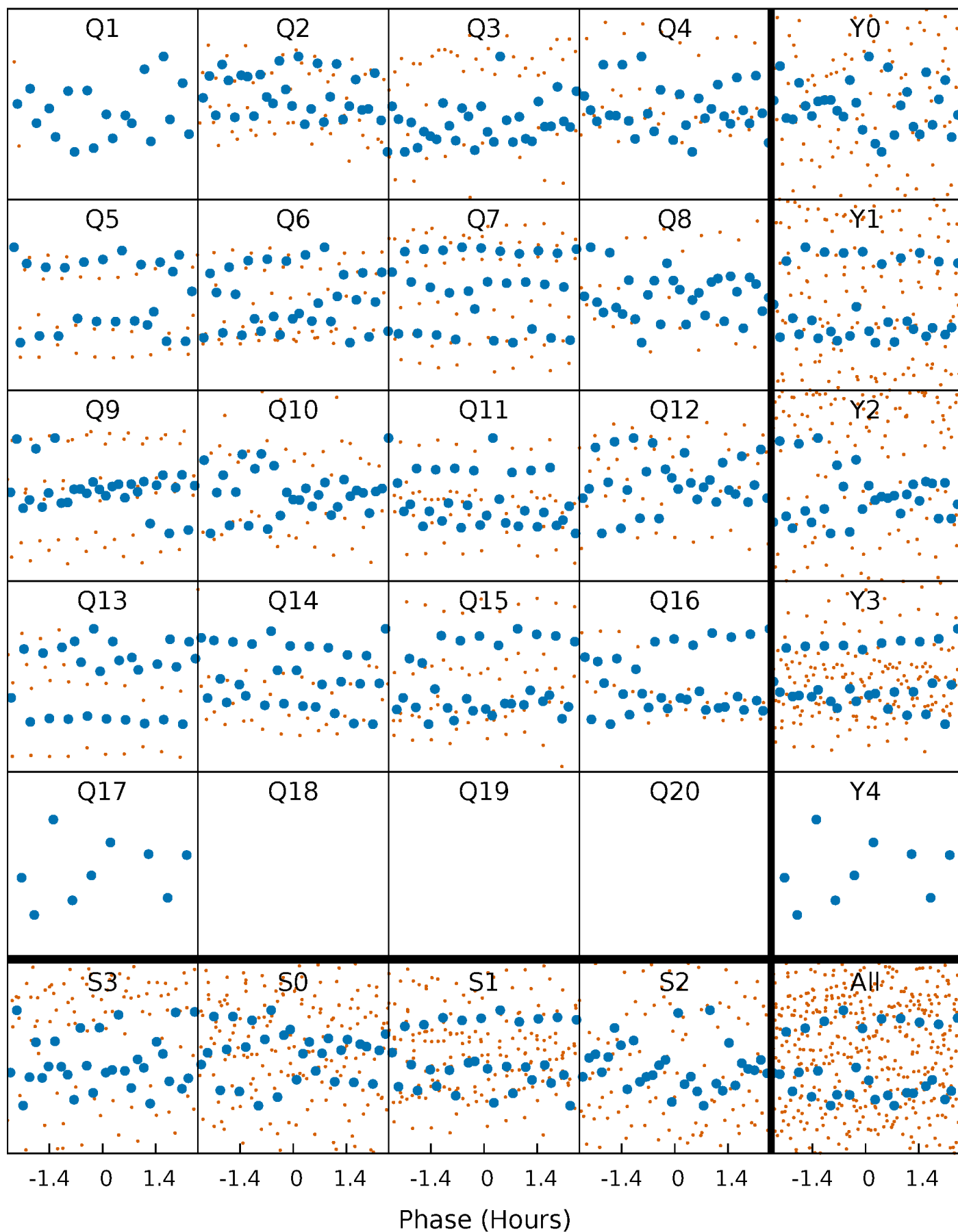


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



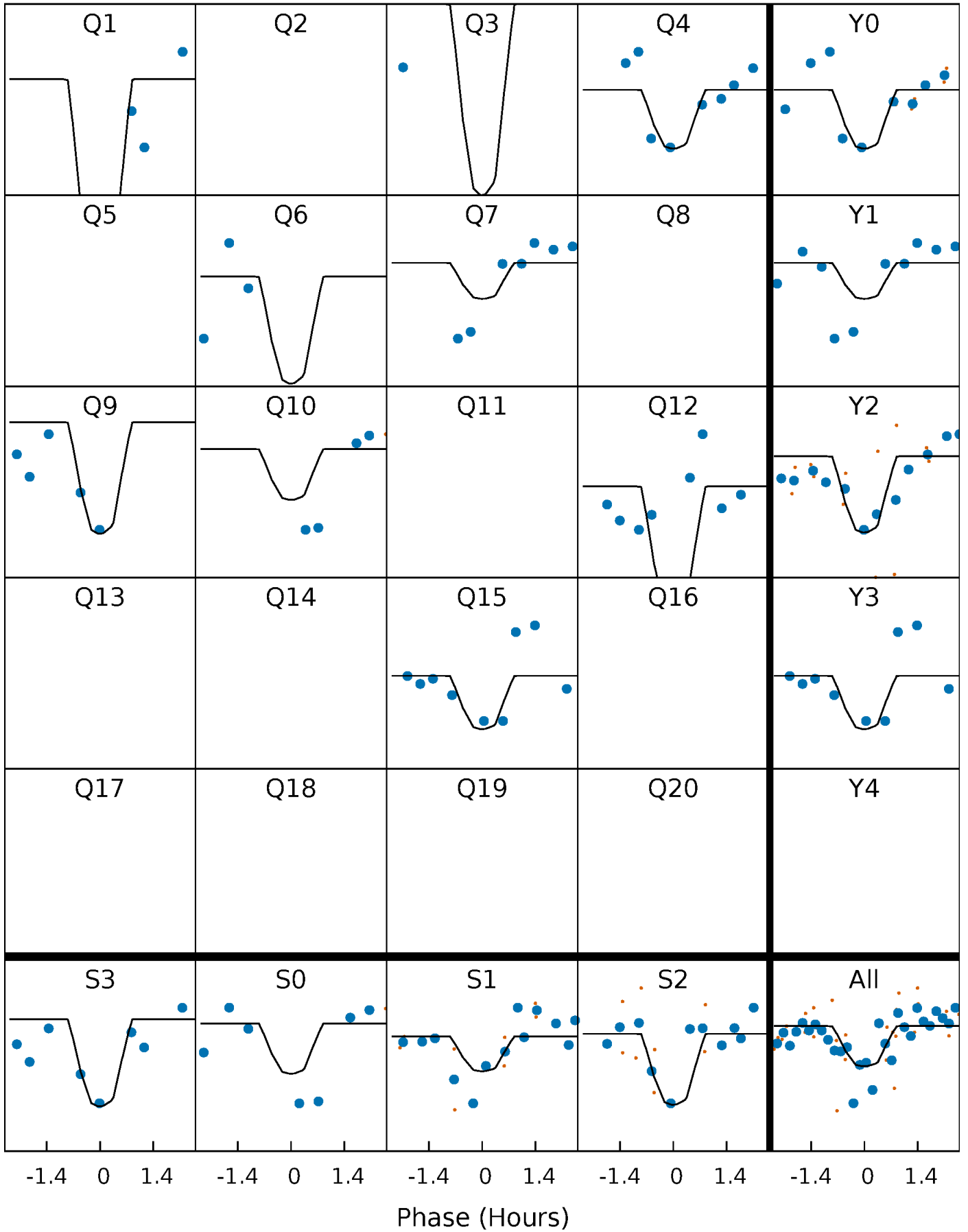
PDC Quarter-Phased Transit Curves

TCE 005703256-03 P= 16.046324 Days $T_0=138.531275$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005703256-03 P= 16.046324 Days $T_0=138.531275$ (BKJD)

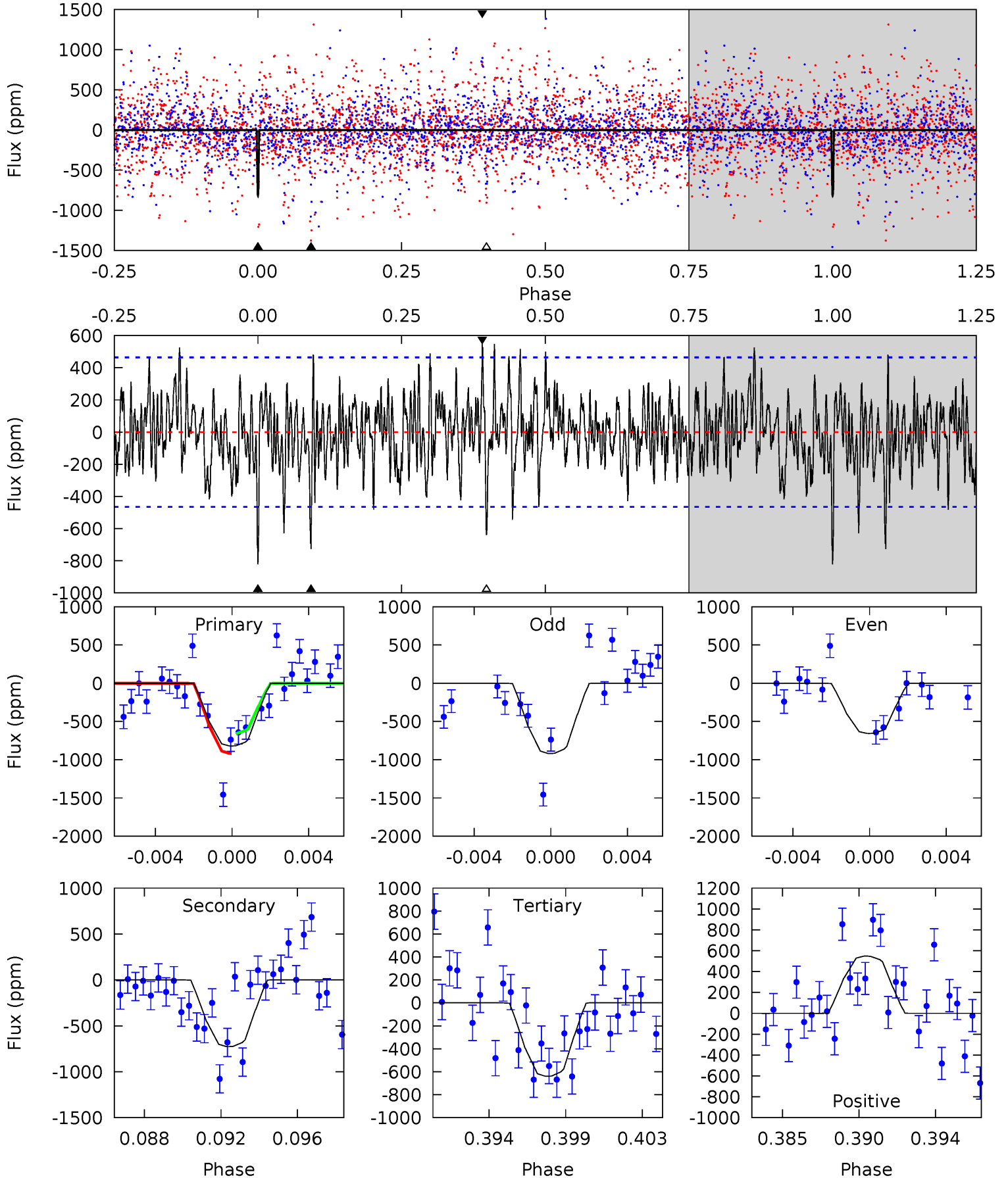


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005703256-03, $P = 16.046324$ Days, $E = 122.484951$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.16	8.11	7.14	6.12	5.18	2.85	1.98	2.02	3.04	0.97	1.99	1.39	1.15	0.40	1.43



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005703256

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6003^{+161}_{-161}	$4.439^{+0.116}_{-0.174}$	$-0.520^{+0.300}_{-0.300}$	$0.929^{+0.245}_{-0.132}$	$0.864^{+0.108}_{-0.081}$	$1.520^{+0.678}_{-0.718}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-14%	+12%/-9%	+45%/-47%
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 005703256-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-727 ± 90	$3.05^{+2.11}_{-1.81}$	1040^{+72}_{-52}	5732^{+3906}_{-1147}	600^{+3130}_{-392}
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

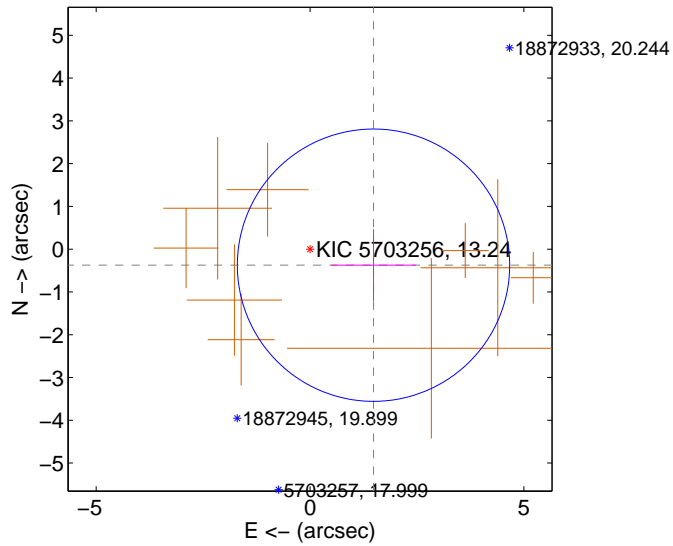
Supplemental centroid analysis for 005703256-03. Kepler magnitude: 13.24. Transit SNR 9.41

There are 0 quarters with good PRF difference image offsets

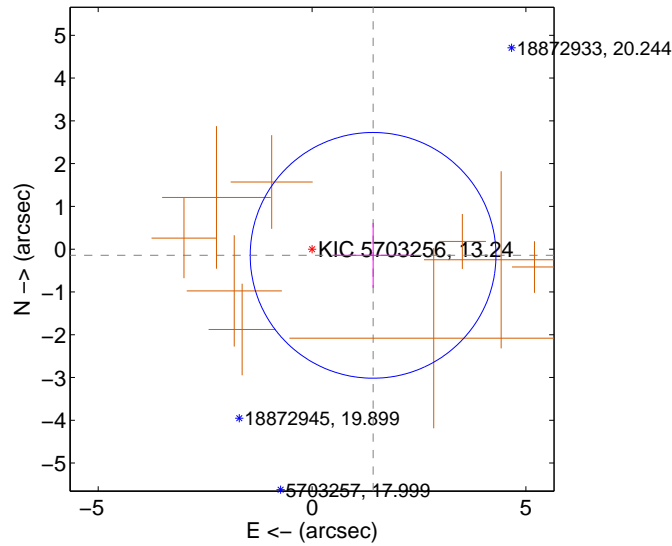
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.531 ± 1.061	1.44	-1.484 ± 0.987	-0.375 ± 0.841
PRF-fit source offset from KIC position	1.434 ± 0.957	1.50	-1.427 ± 0.932	-0.144 ± 0.758
photometric centroid source offset	0.34 ± 0.14	2.45	0.09 ± 0.15	0.33 ± 0.14

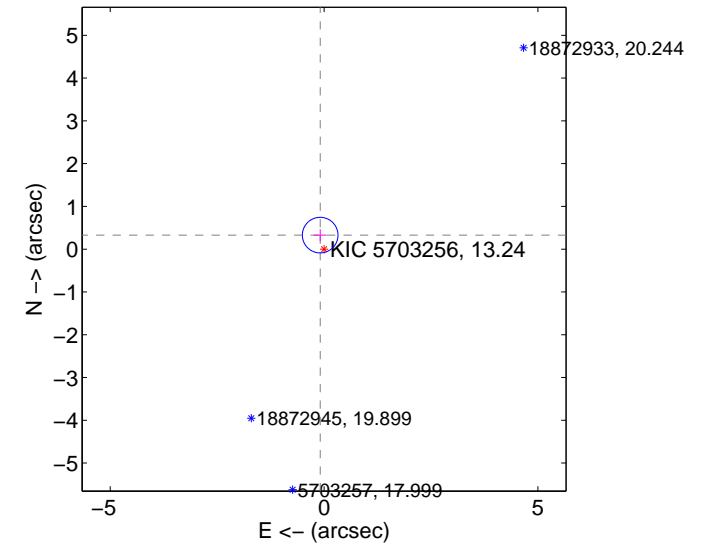
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

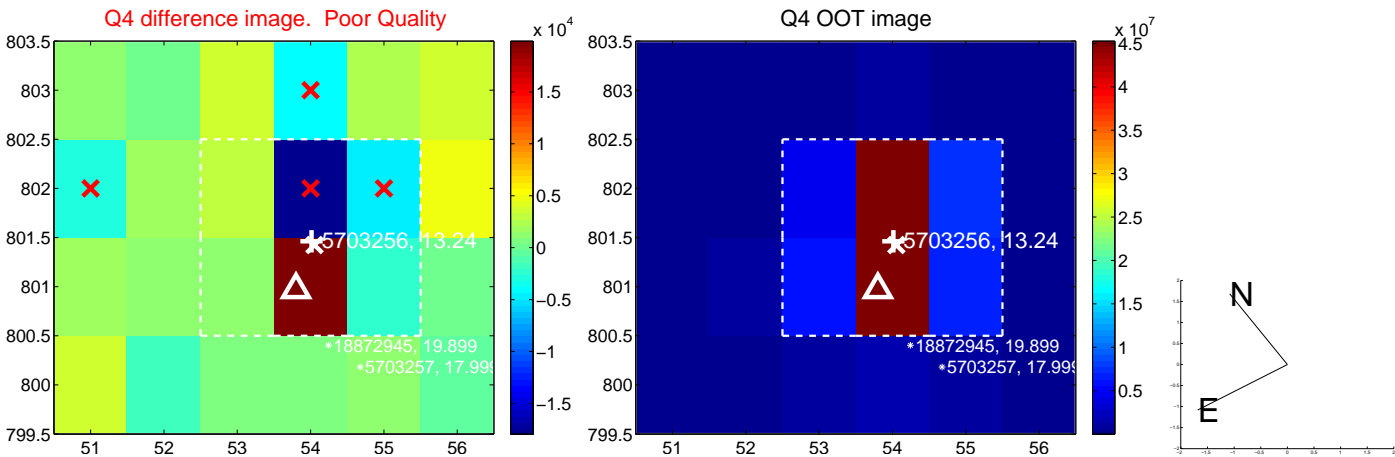
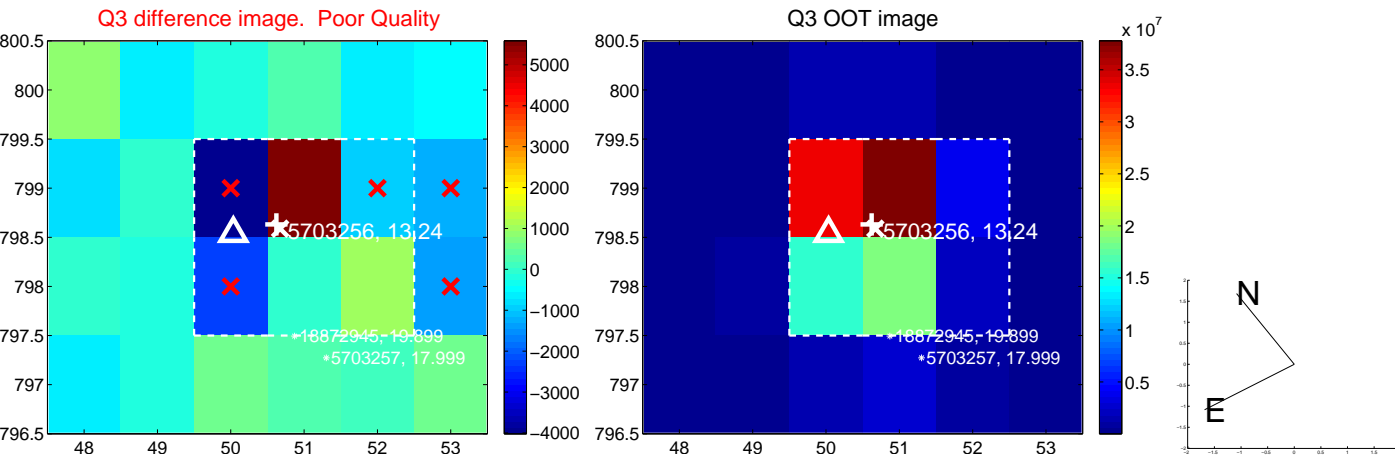
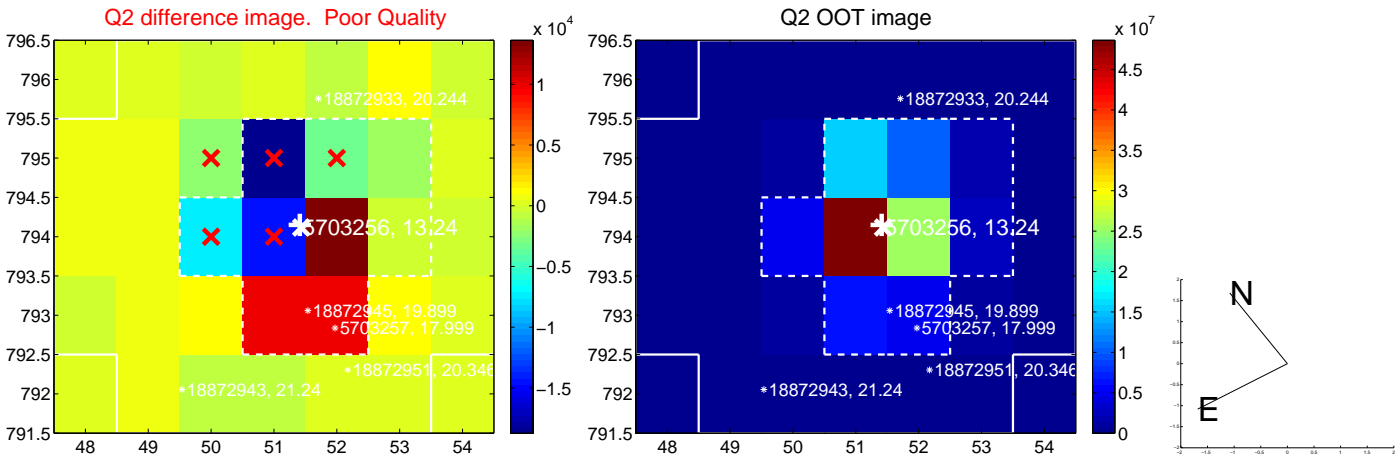
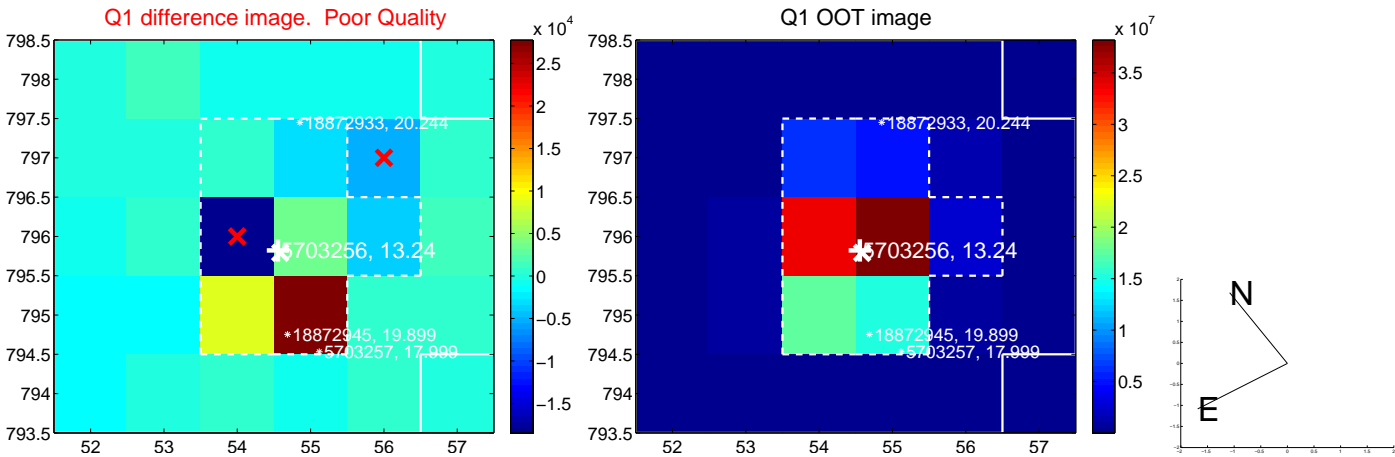


offset from photometric centroids

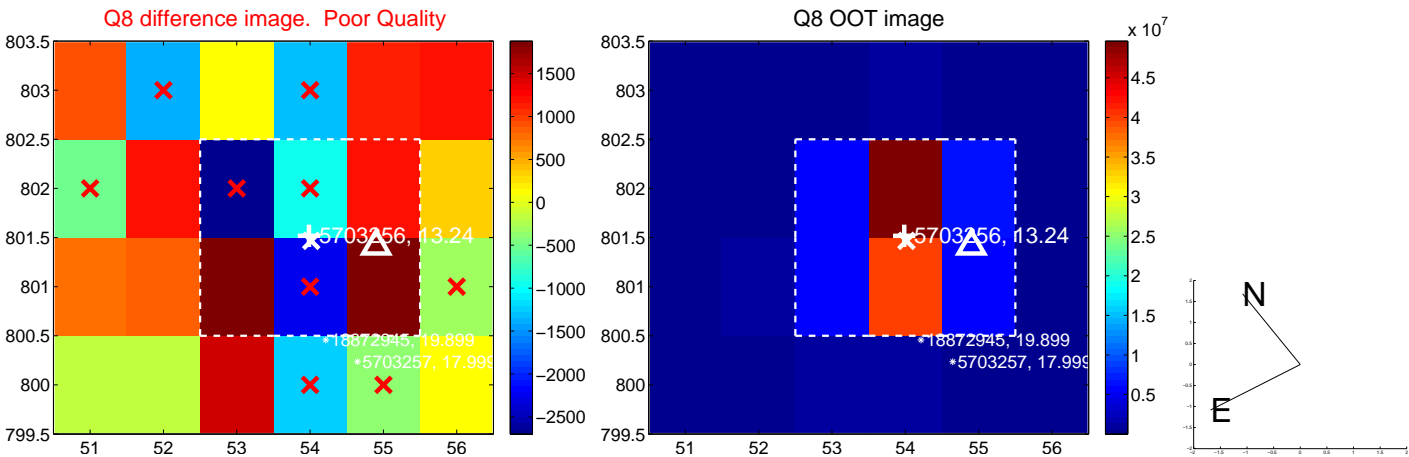
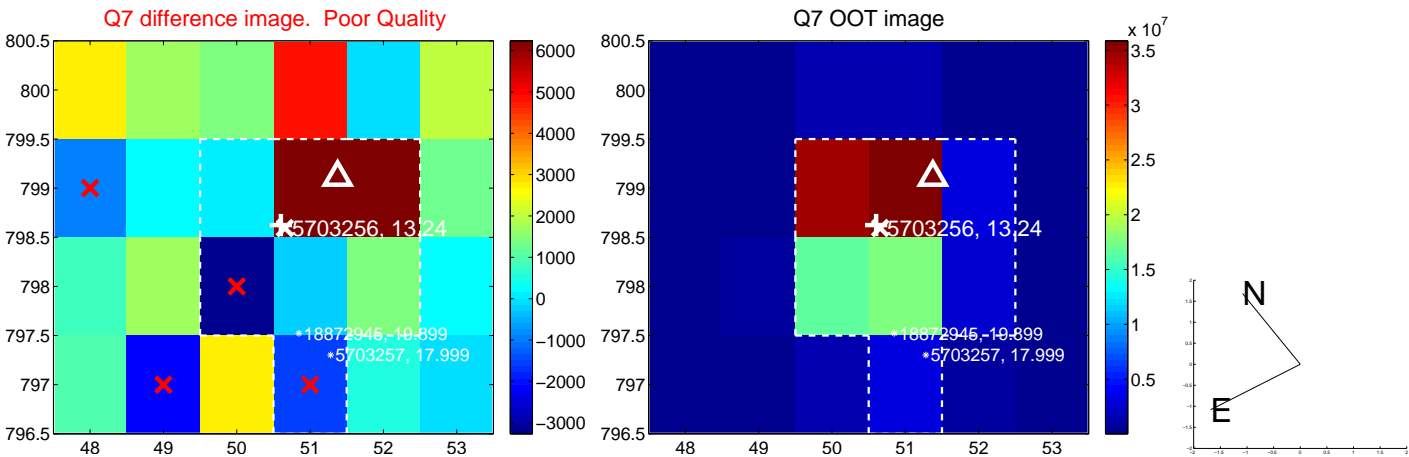
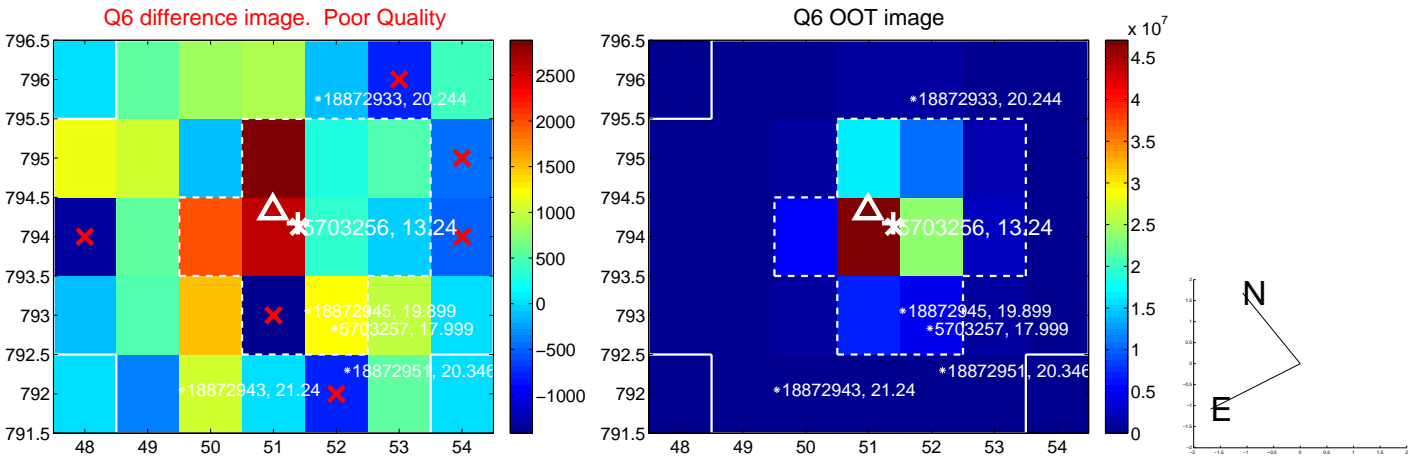
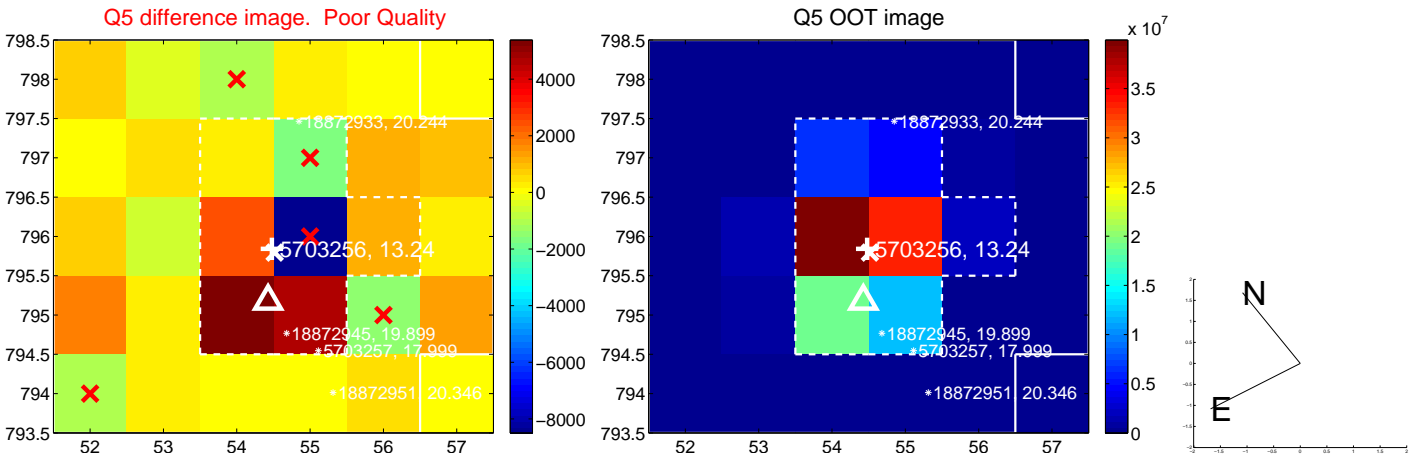


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

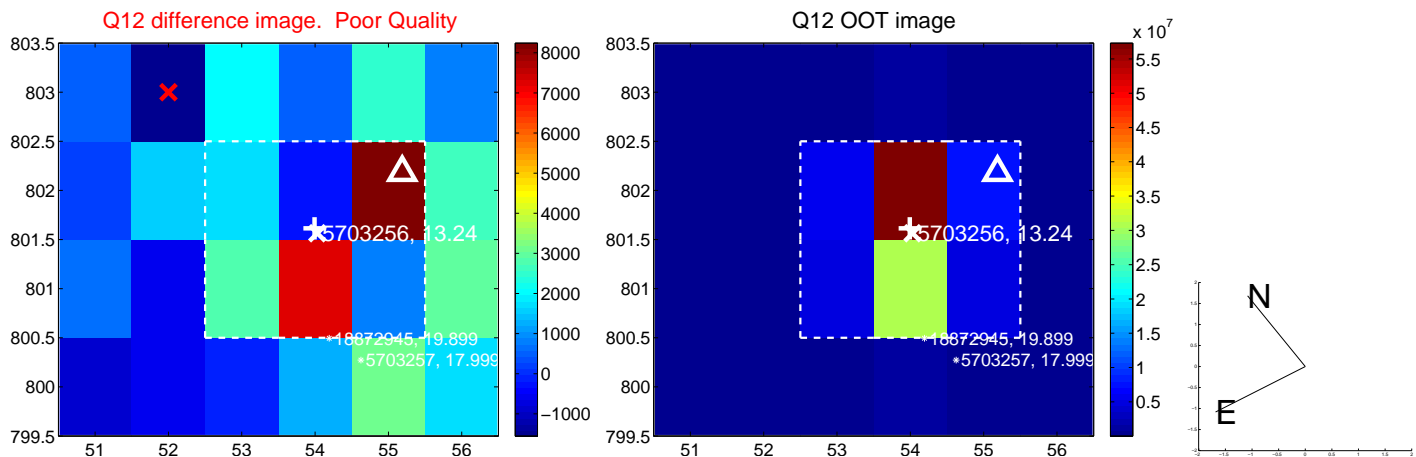
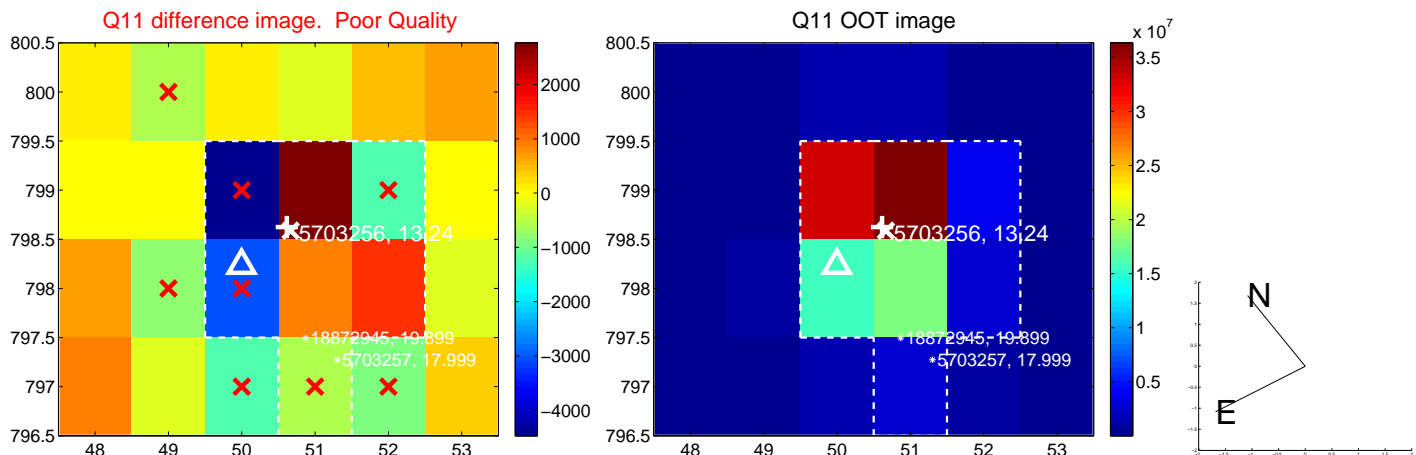
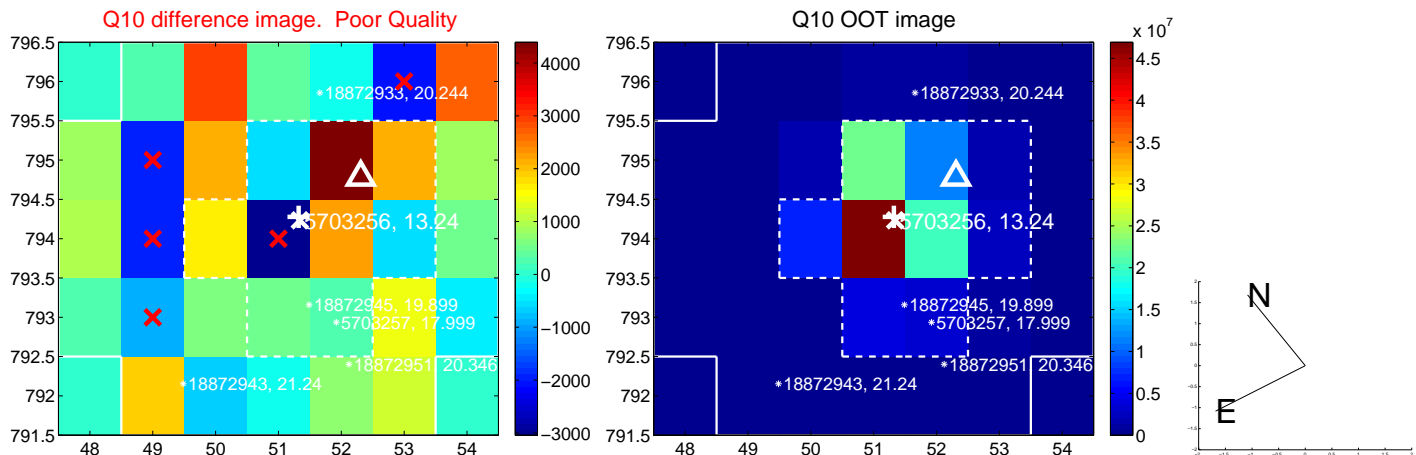
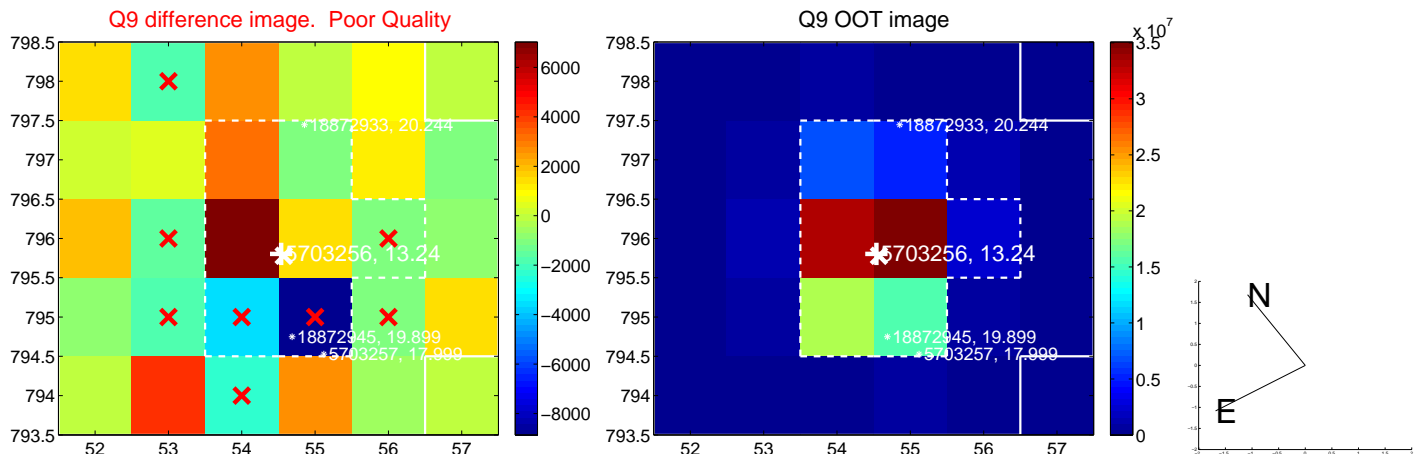
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



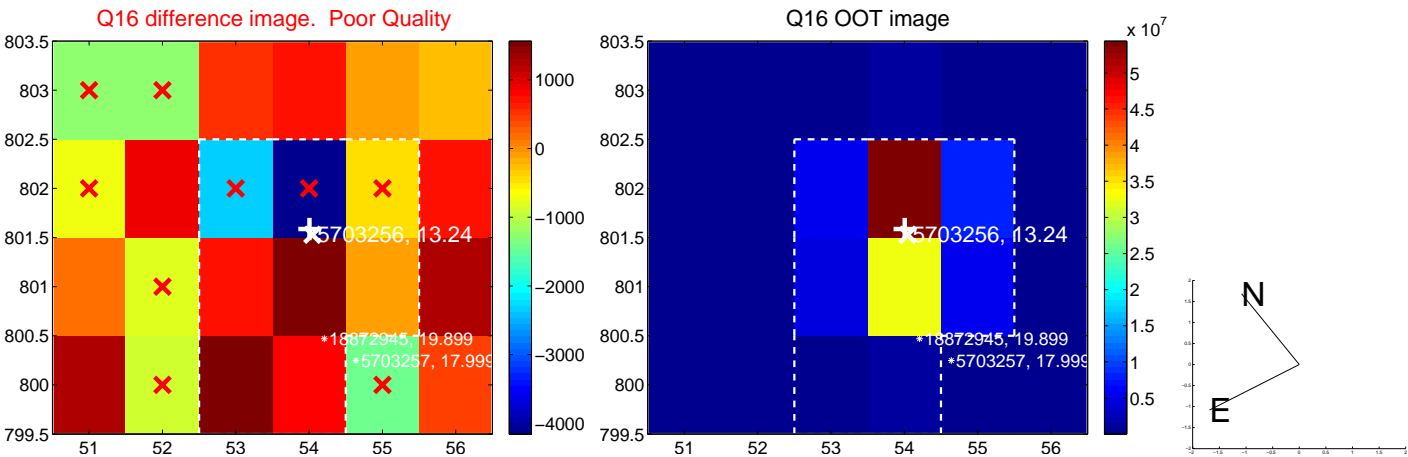
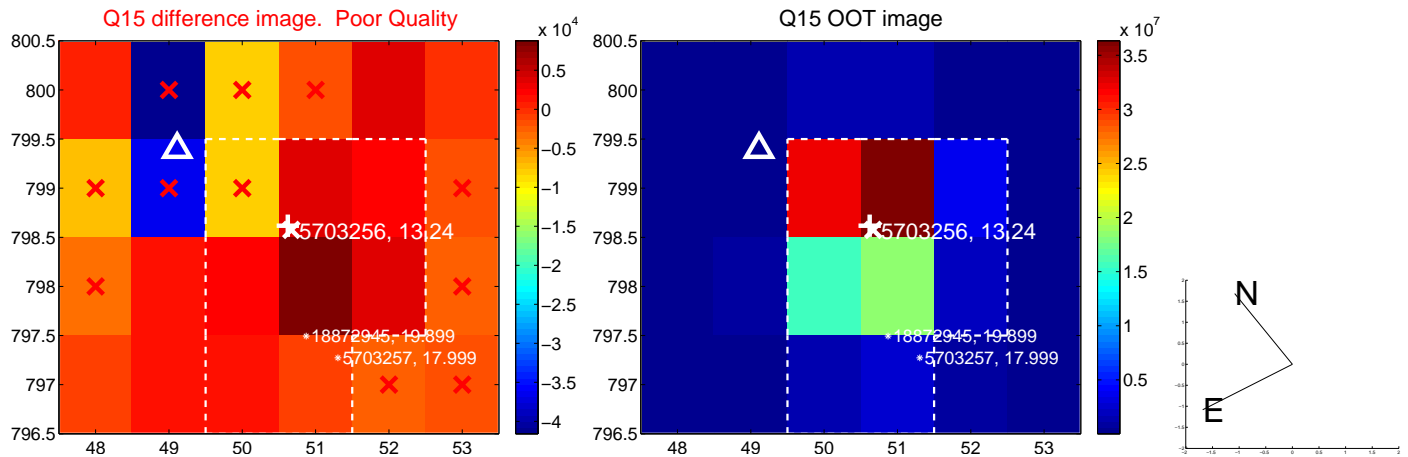
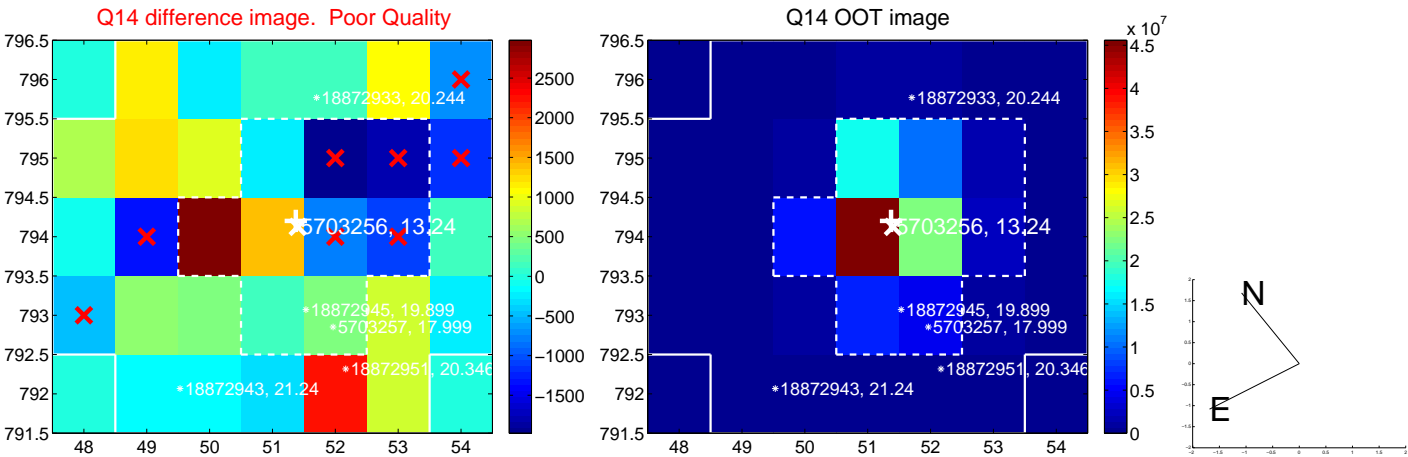
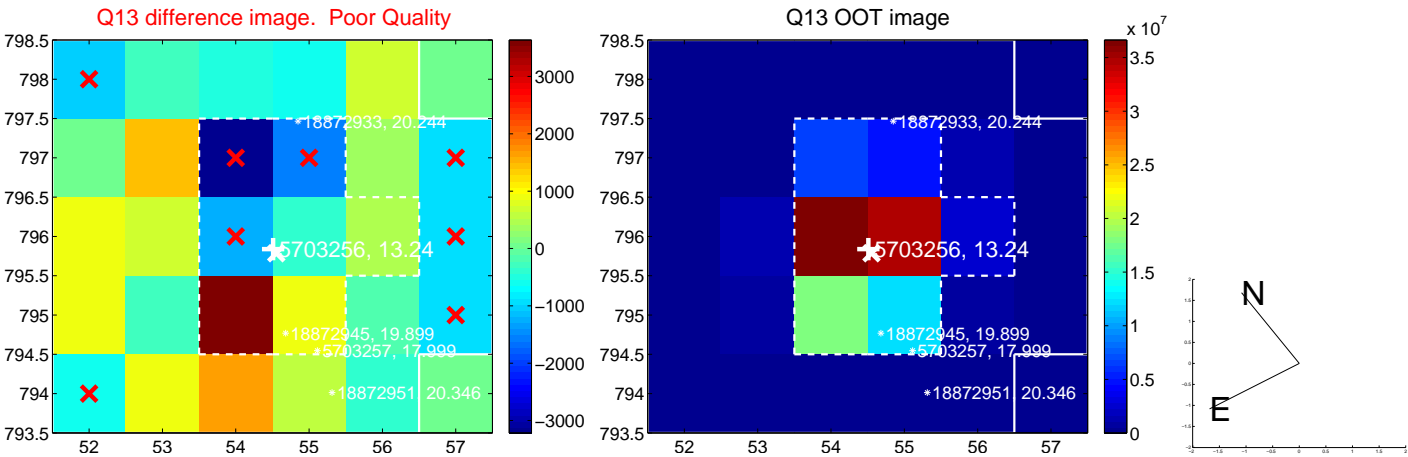
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



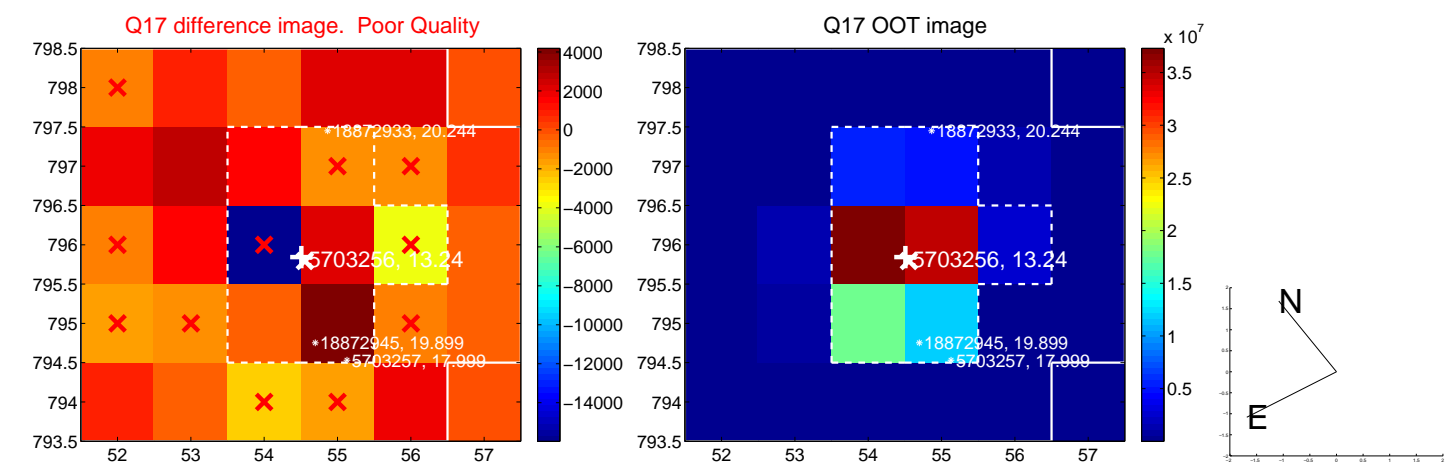
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



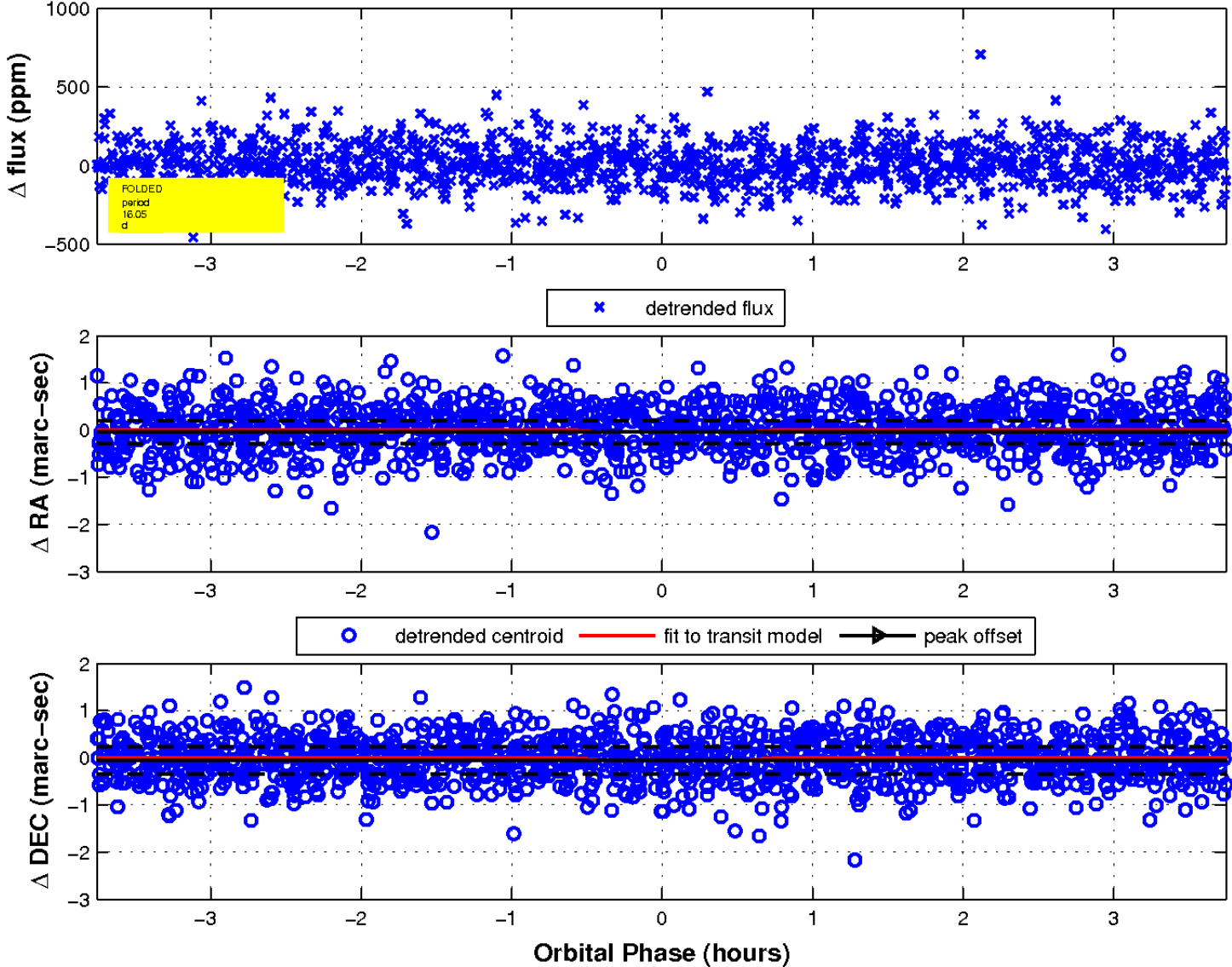
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 4



UKIRT Image

