

KIC 005392723

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})
005392723-01	OBS	No	5.483327	134.166086	33.4	10.521	8.2	6.4	1.11	6462	0.71	579.83
005392723-02	OBS	No	5.483684	132.144434	121.2	15.000	8.0	-1.0	1.11	6462	1.23	579.78
005392723-03	OBS	No	81.002092	199.929686	155.2	17.988	8.6	5.7	1.11	6462	1.47	16.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005392723-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005392723-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005392723-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_FEW_MEAS

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

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

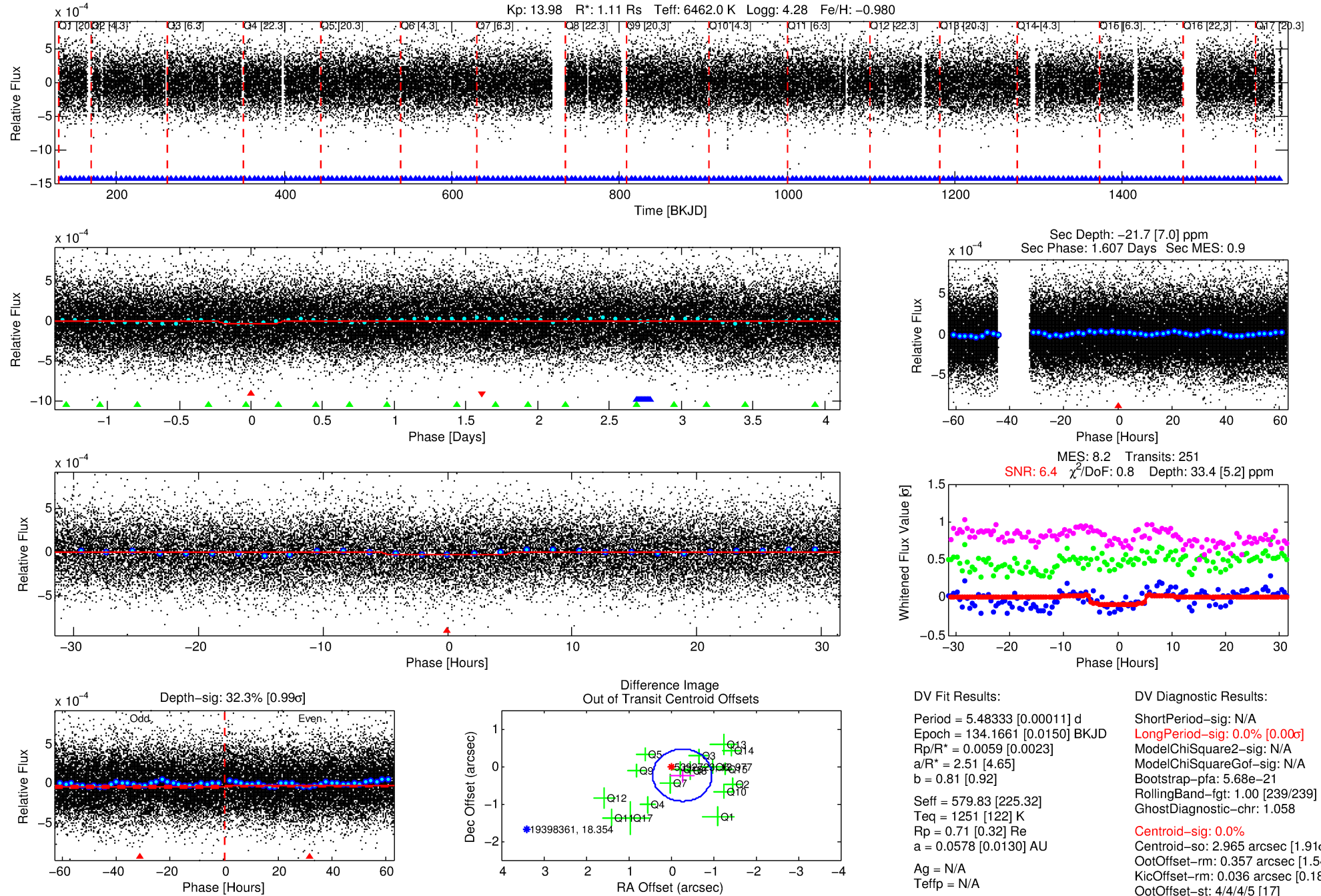
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005392723-01

No Significant Match Found

DV One-Page Summary

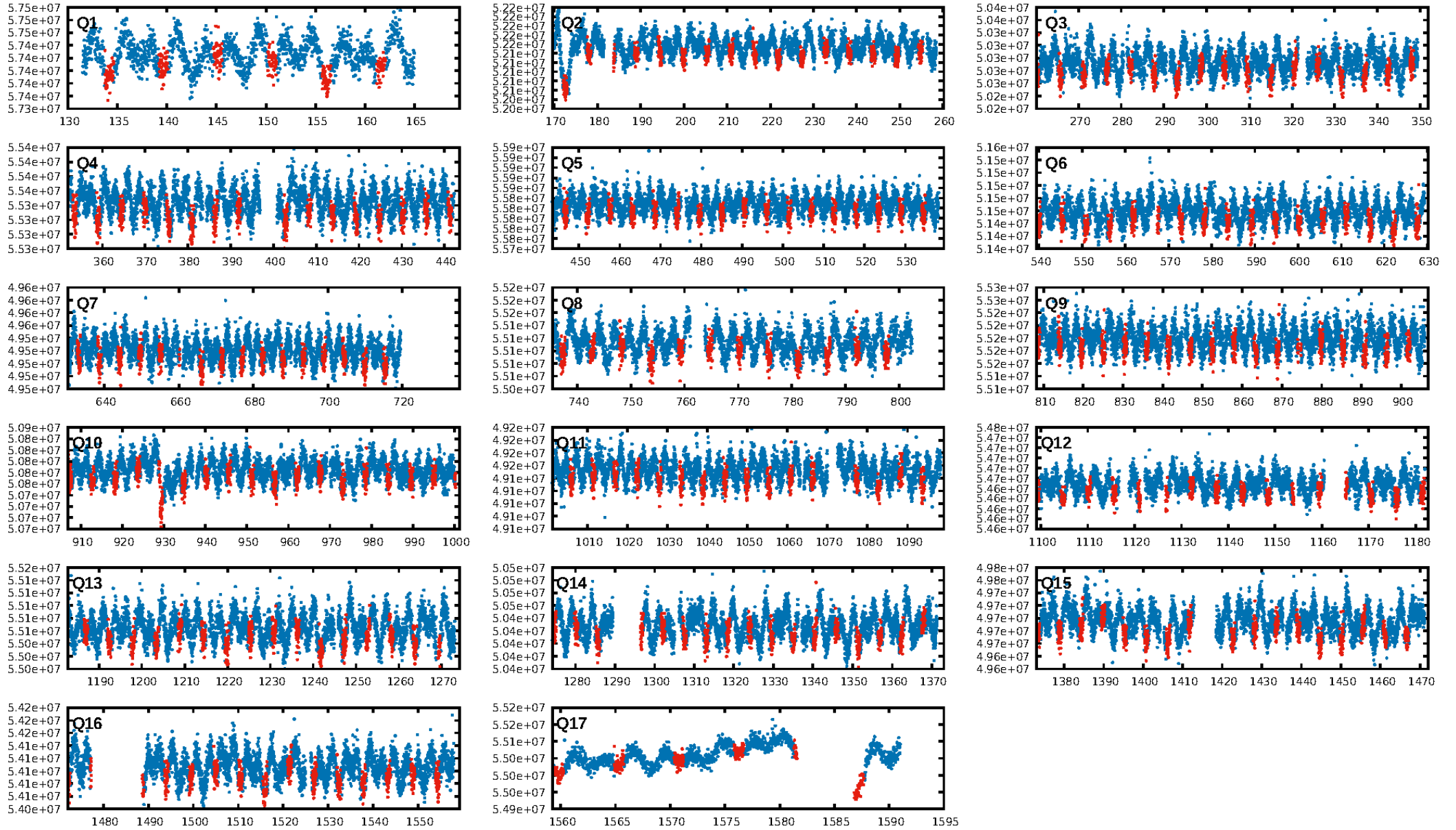
KIC: 5392723 Candidate: 1 of 3 Period: 5.483 d



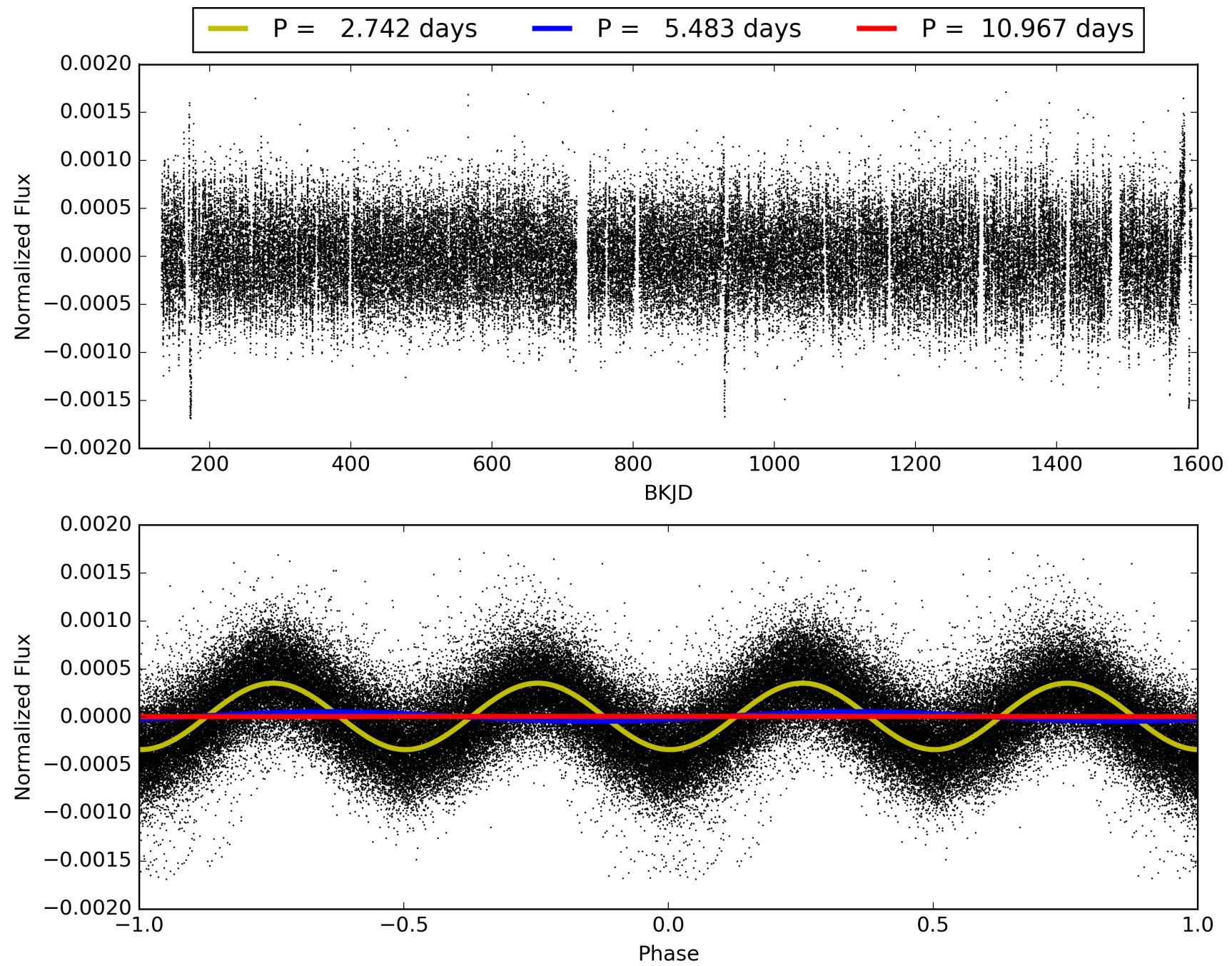
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 11:00:49 Z

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

TCE 005392723-01, PDC Light Curves

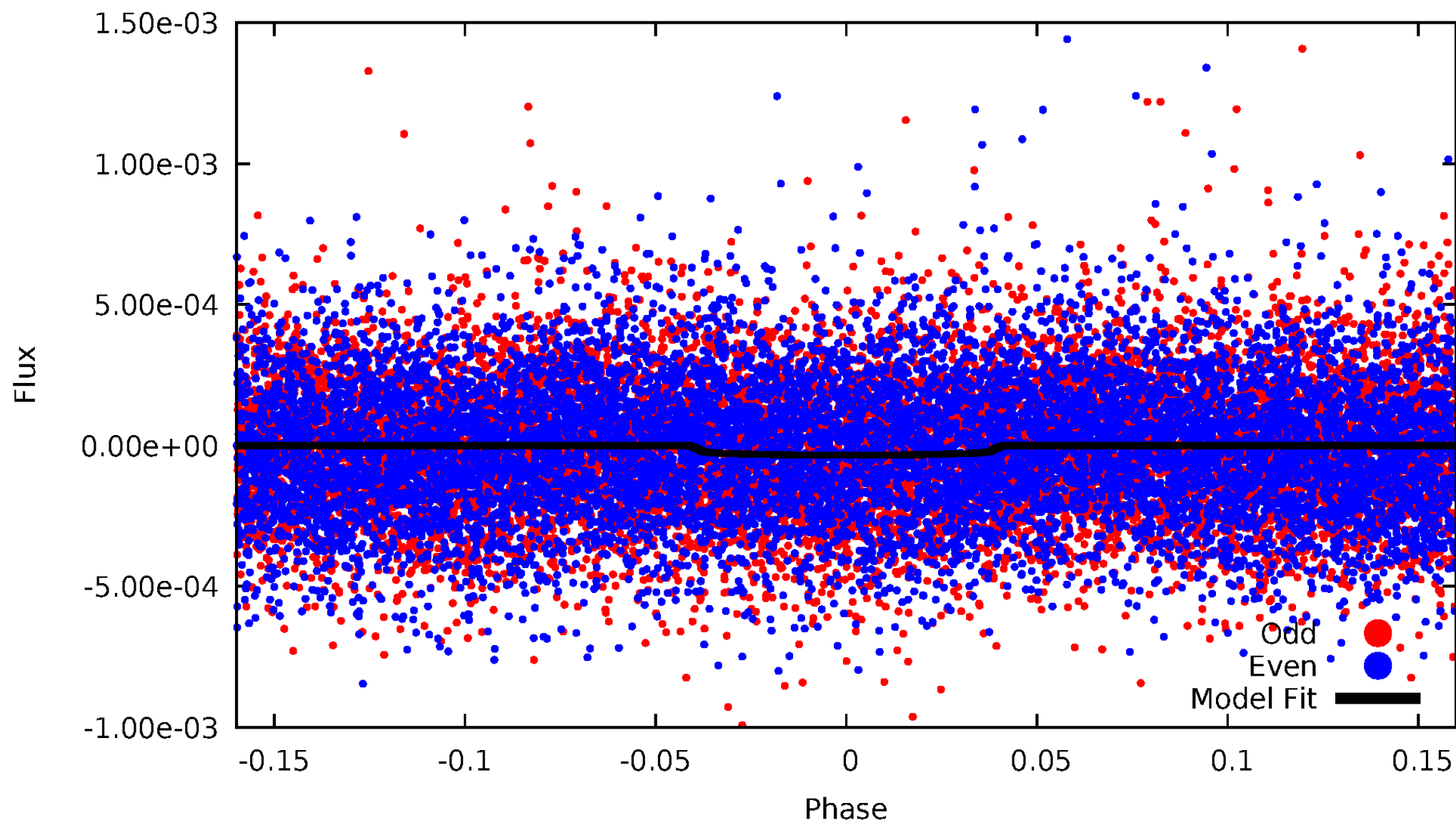


TCE 005392723-01



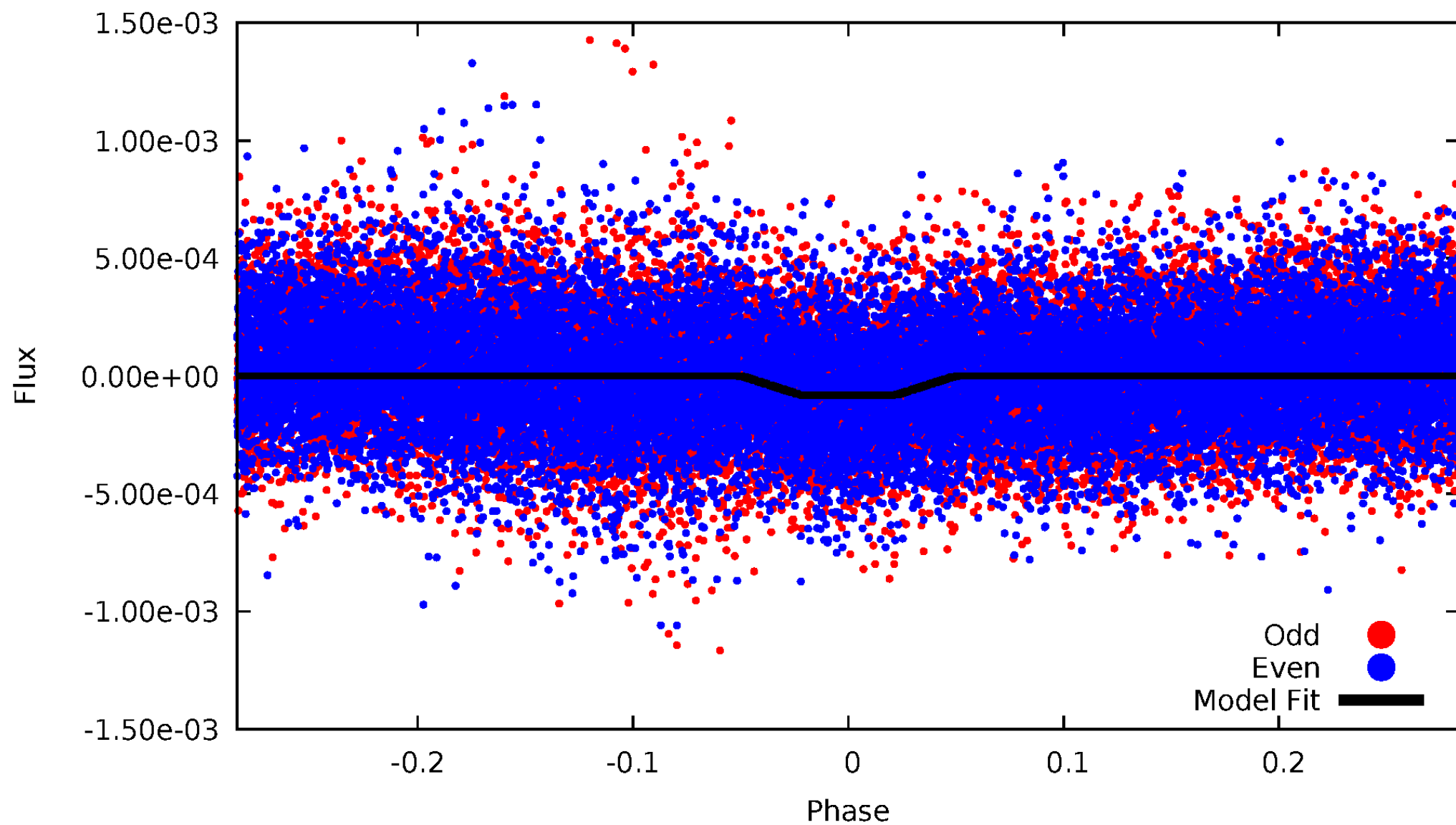
DV Odd/Even

TCE 005392723-01



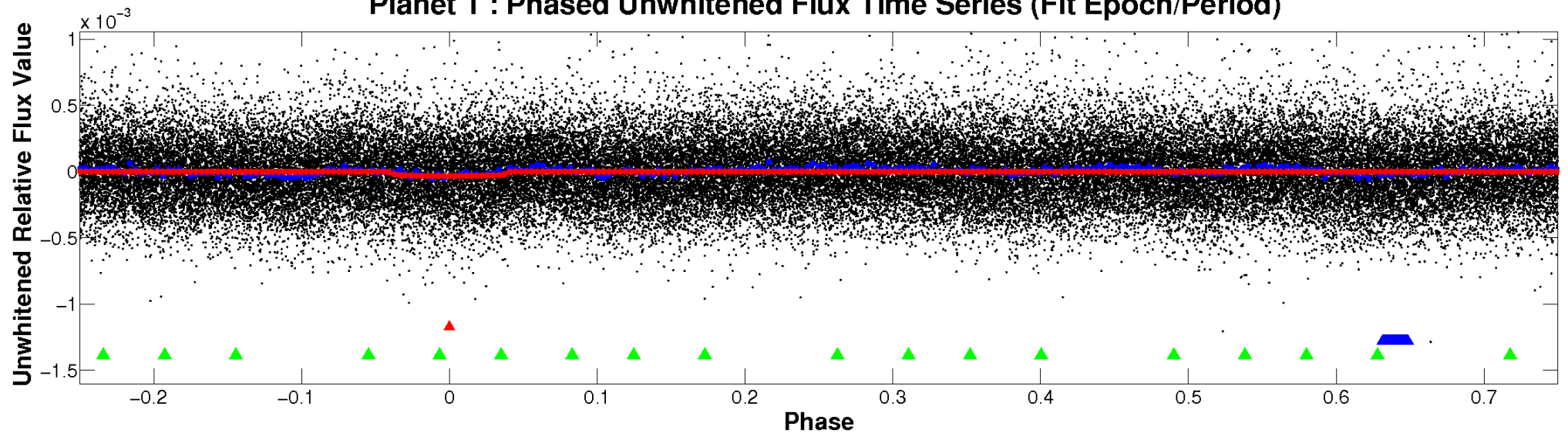
ALT Odd/Even

TCE 005392723-01

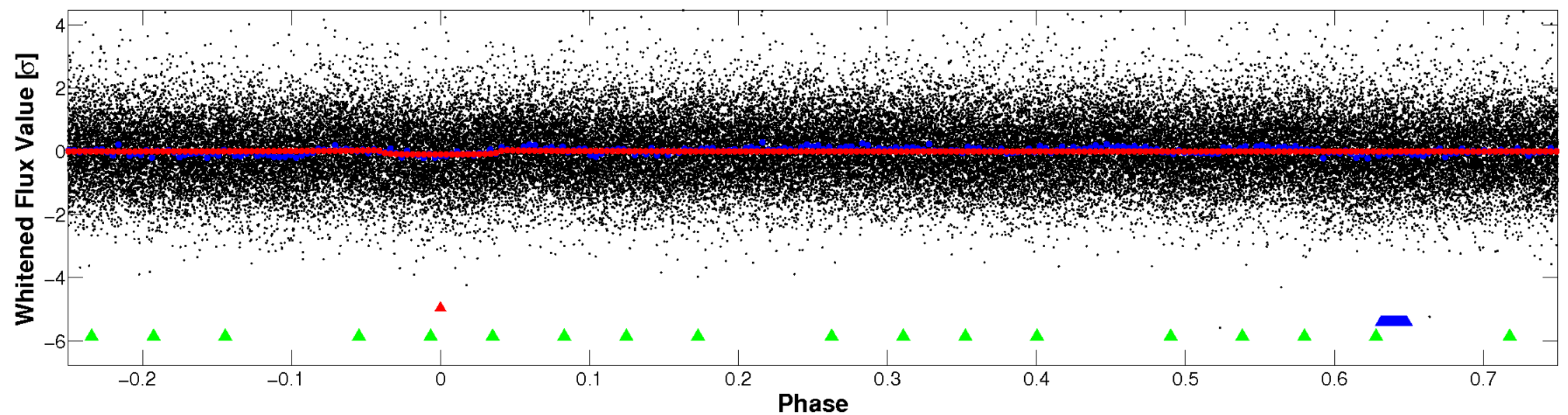


Non-Whitened Vs. Whitened Light Curve

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

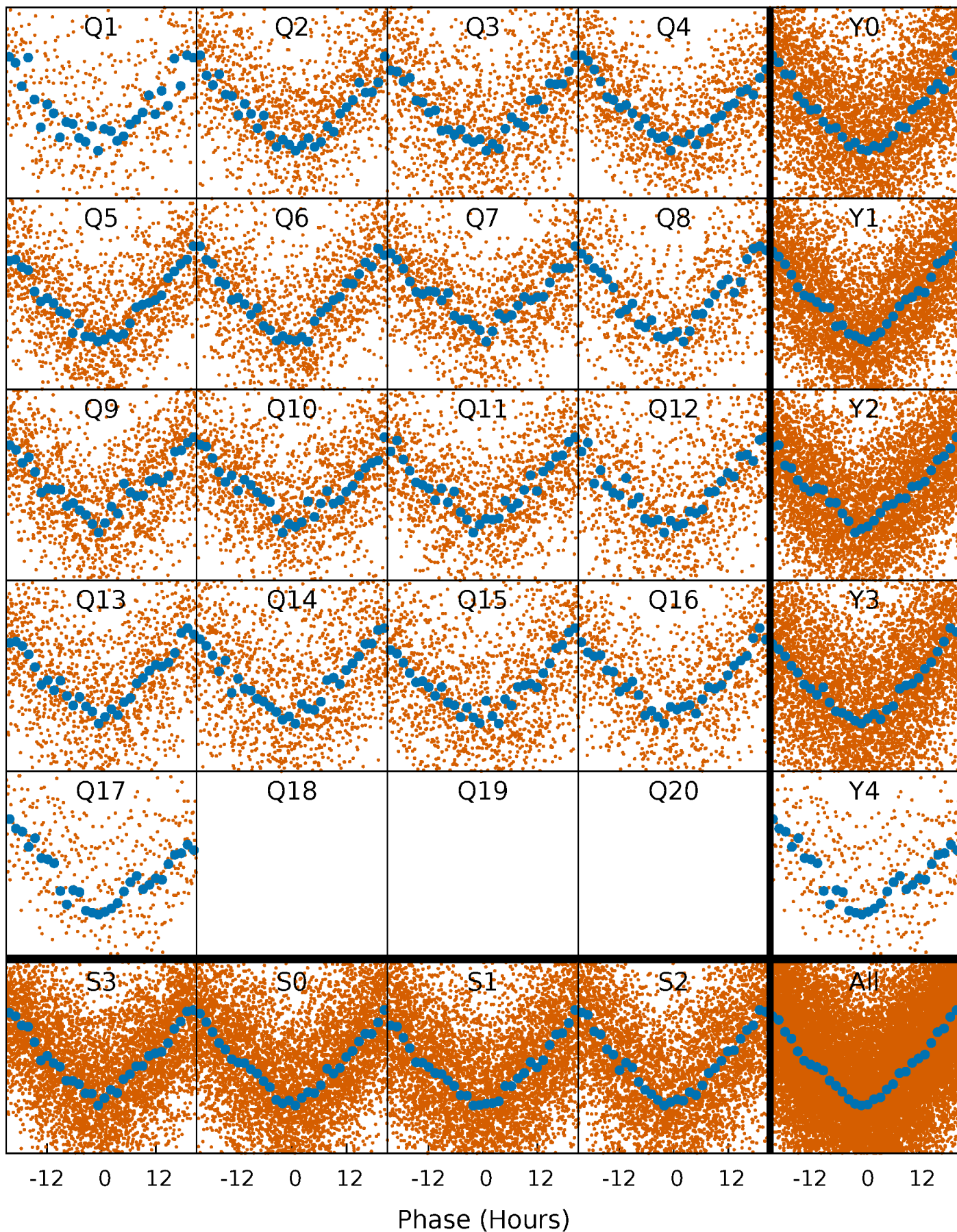


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



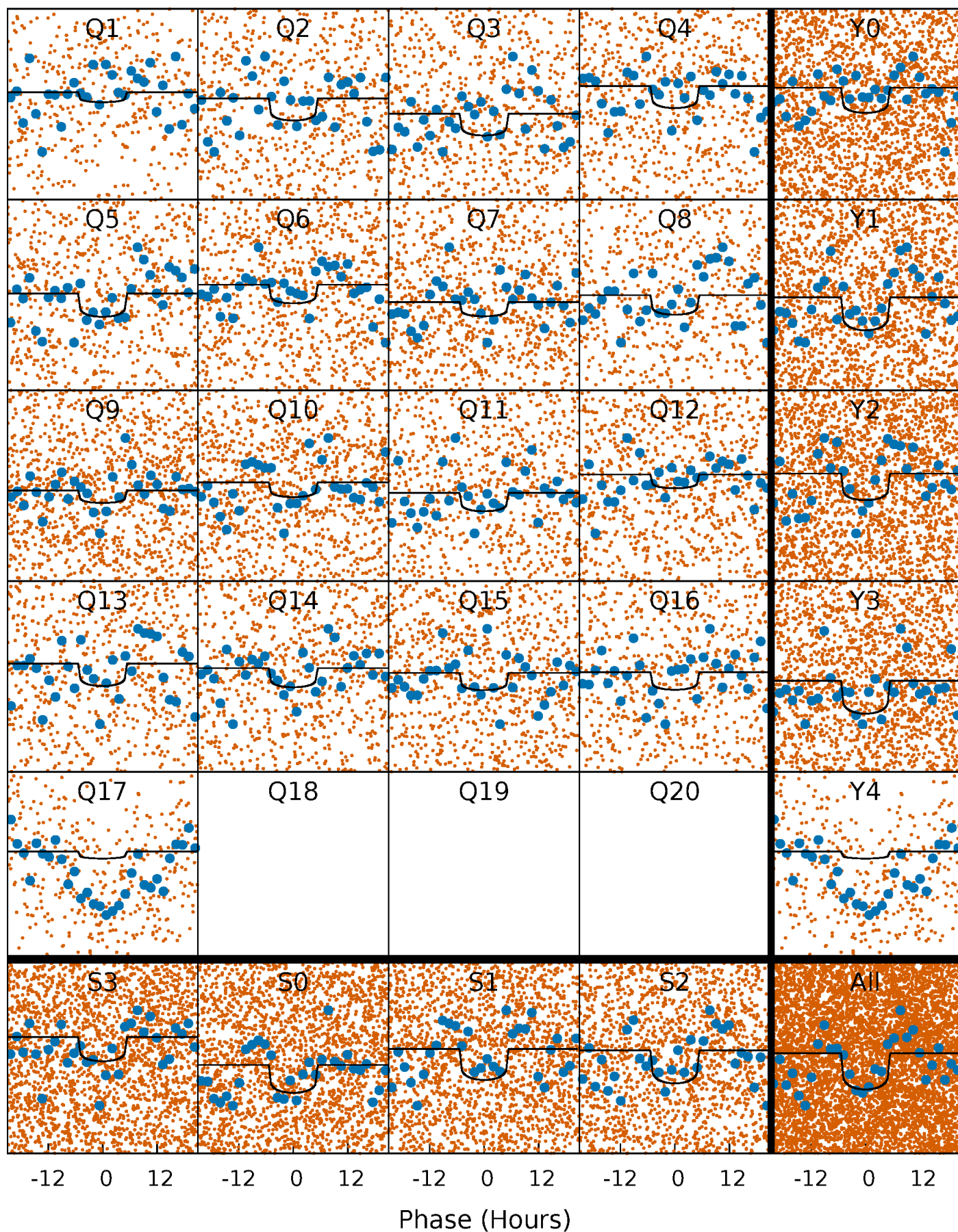
PDC Quarter-Phased Transit Curves

TCE 005392723-01 P= 5.483327 Days $T_0=134.166086$ (BKJD)



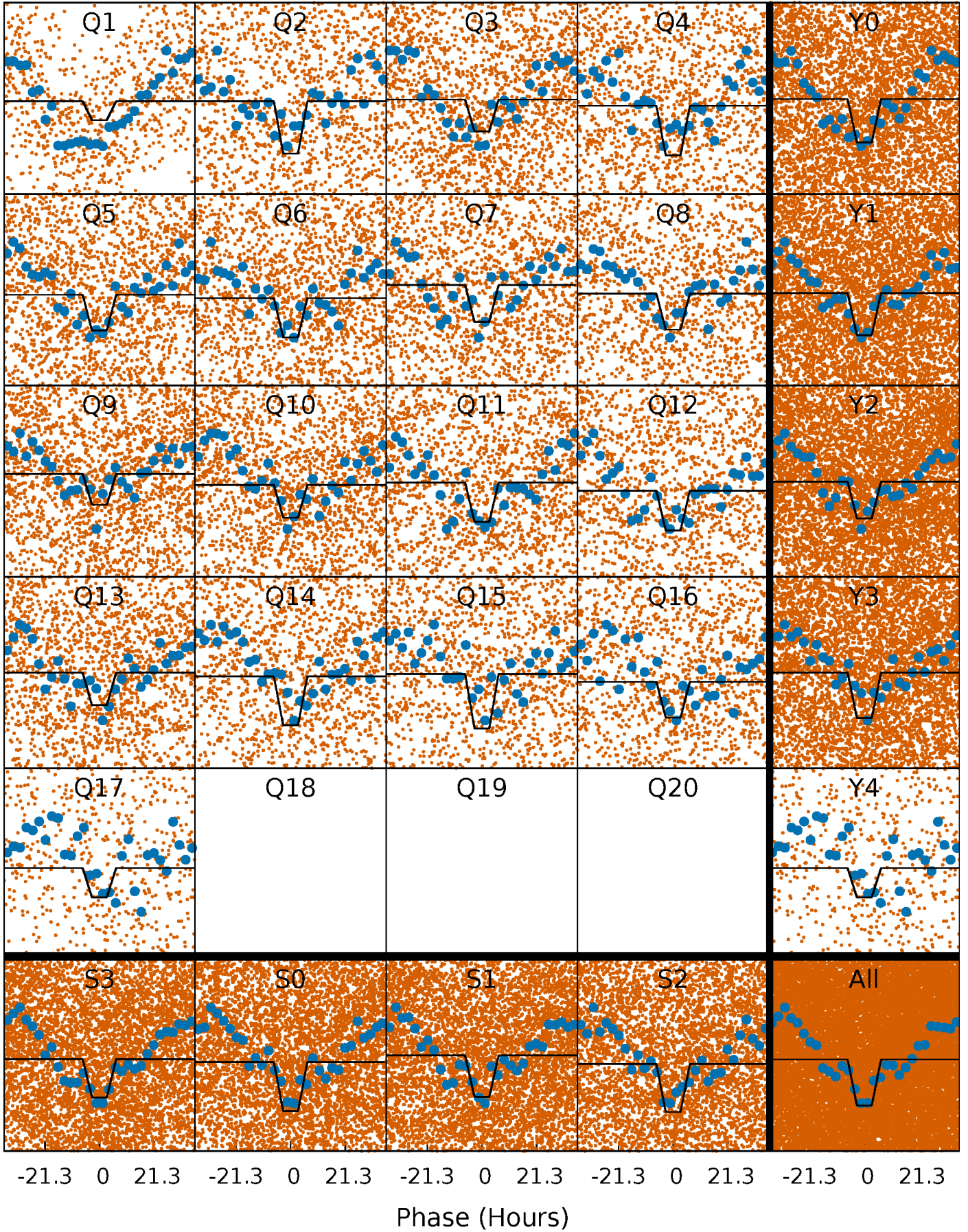
DV Quarter-Phased Transit Curves

TCE 005392723-01 P= 5.483327 Days $T_0=134.166086$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

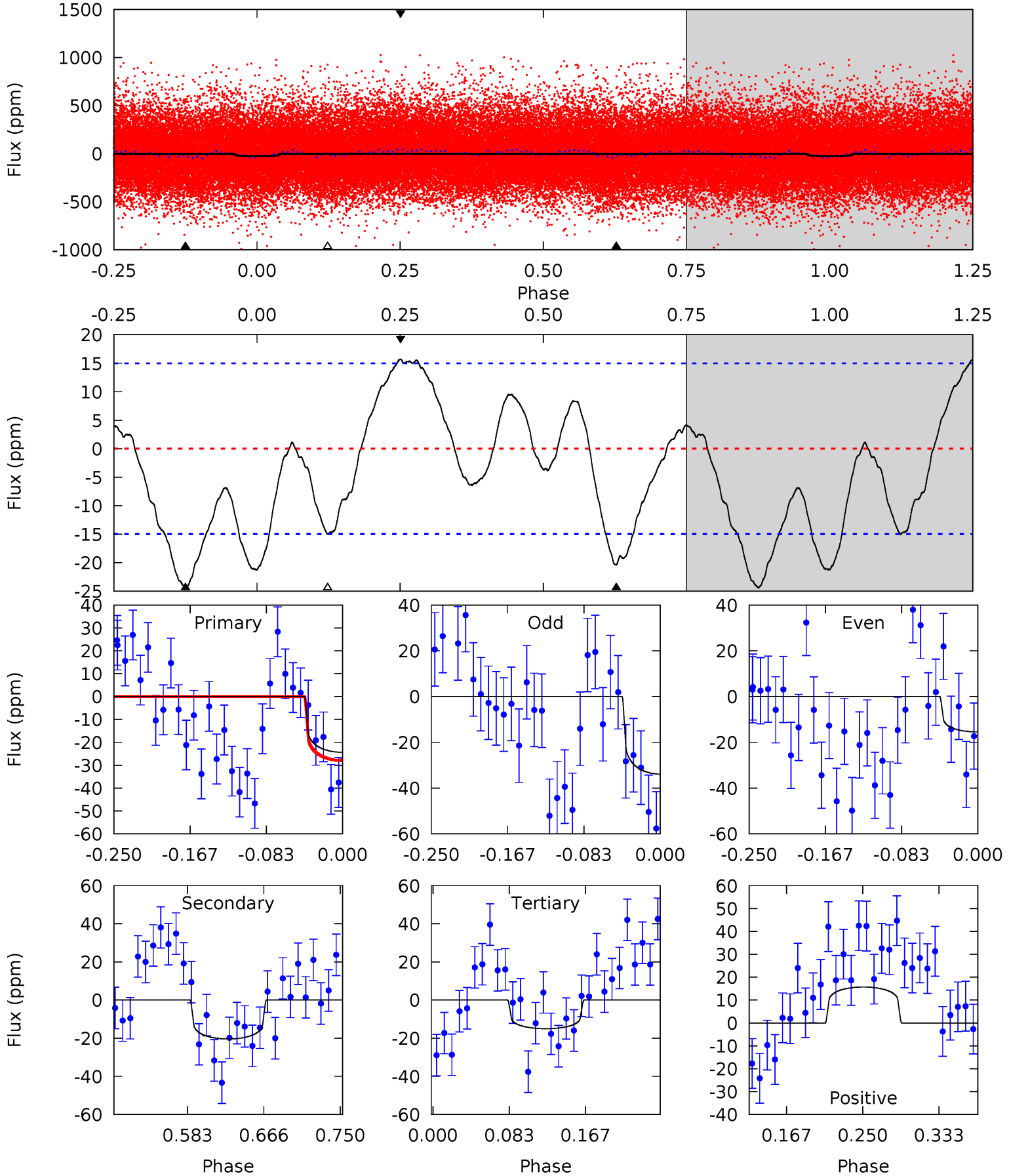
TCE 005392723-01 P= 5.482279 Days $T_0=134.308883$ (BKJD)



DV Model-Shift Uniqueness Test

005392723-01, P = 5.483327 Days, E = 128.682759 Days

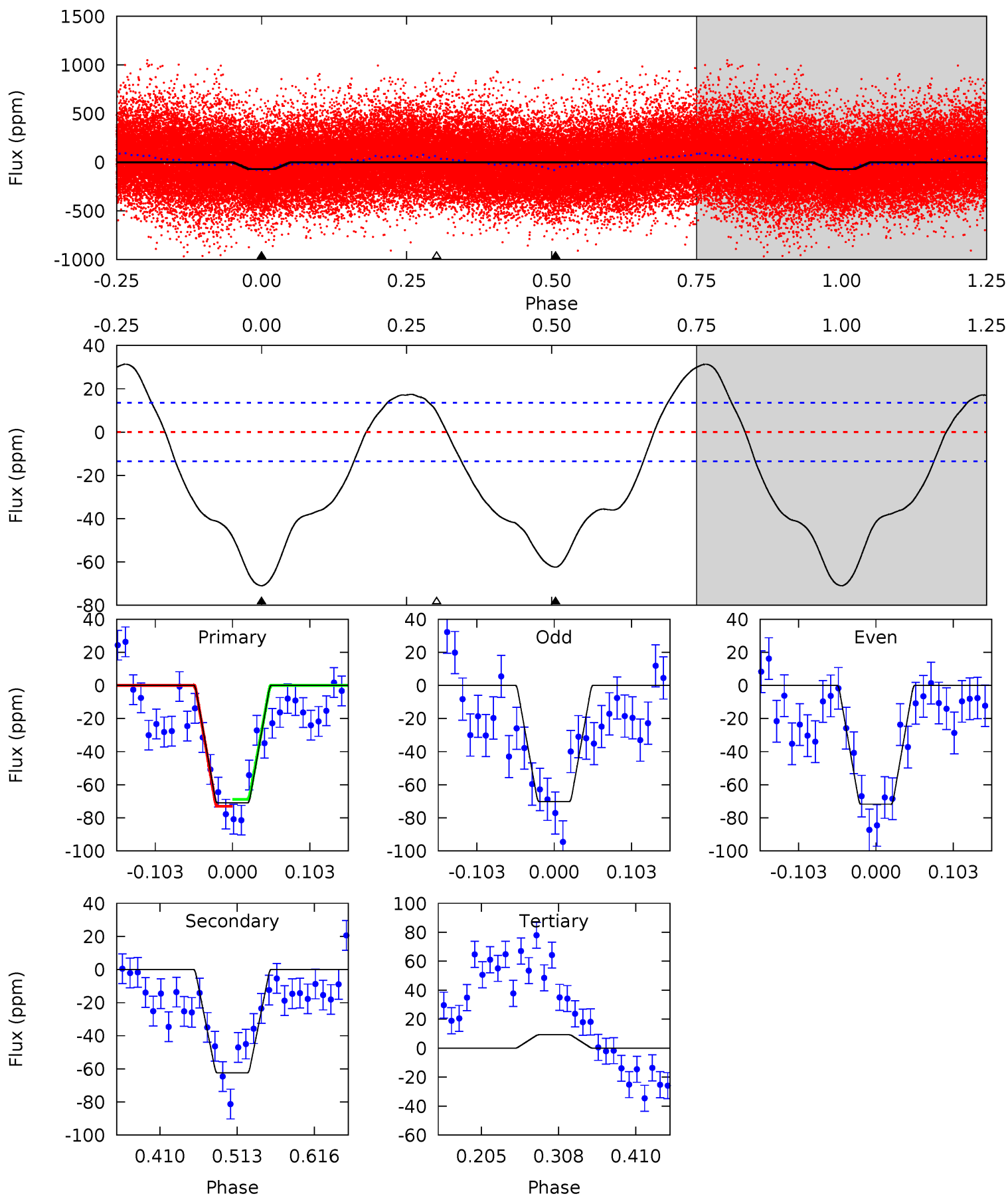
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.49	6.27	4.61	4.82	4.60	1.73	2.90	2.88	2.66	1.66	1.44	2.83	1.30	0.39	0.97



Alt Model-Shift Uniqueness Test

005392723-01, P = 5.482279 Days, E = 128.826604 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	21.1	-3.11	0	4.56	1.63	7.16	27.1	23.9	24.2	21.1	0.28	0.95	0.31	0.71



Stellar Parameters For KIC 005392723

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6462^{+180}_{-225}	$4.277^{+0.214}_{-0.175}$	$-0.980^{+0.300}_{-0.300}$	$1.113^{+0.257}_{-0.257}$	$0.856^{+0.104}_{-0.061}$	$0.875^{+0.959}_{-0.395}$
	+3%/-3%	+5%/-4%	+31%/-31%	+23%/-23%	+12%/-7%	+110%/-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 005392723-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-20 ± 3	$0.71^{+0.31}_{-0.28}$	1744^{+131}_{-124}	5719^{+1555}_{-887}	77^{+135}_{-42}
Alt.	-62 ± 3	$1.09^{+0.34}_{-0.33}$	1741^{+128}_{-119}	6002^{+1056}_{-637}	96^{+99}_{-41}

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

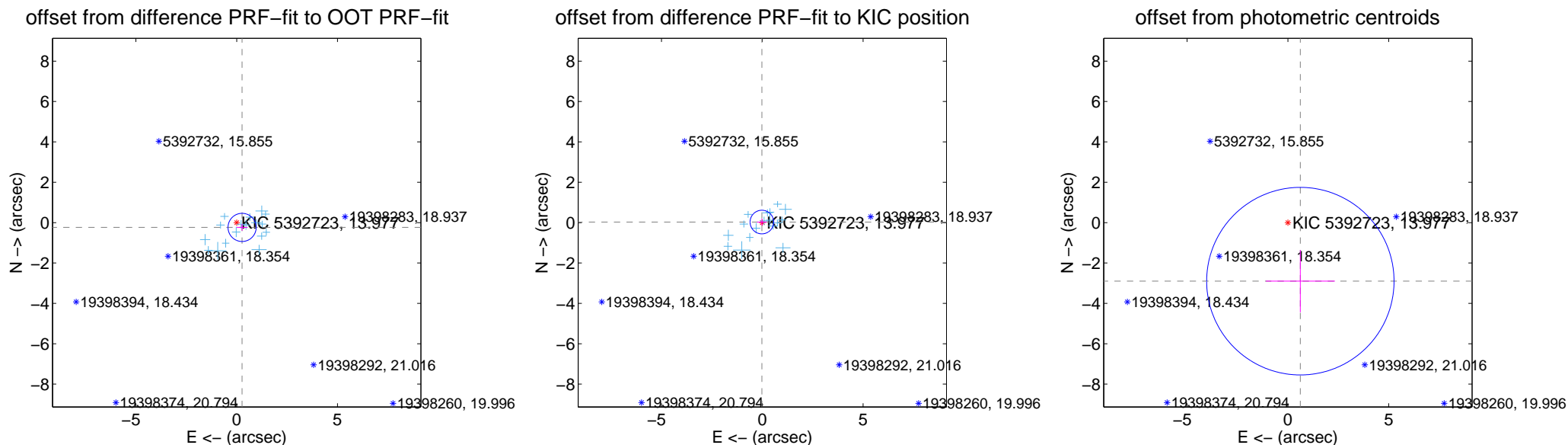
DV Centroid Data

Supplemental centroid analysis for 005392723-01. Kepler magnitude: 13.98. Transit SNR 6.36

There are 17 quarters with good PRF difference image offsets

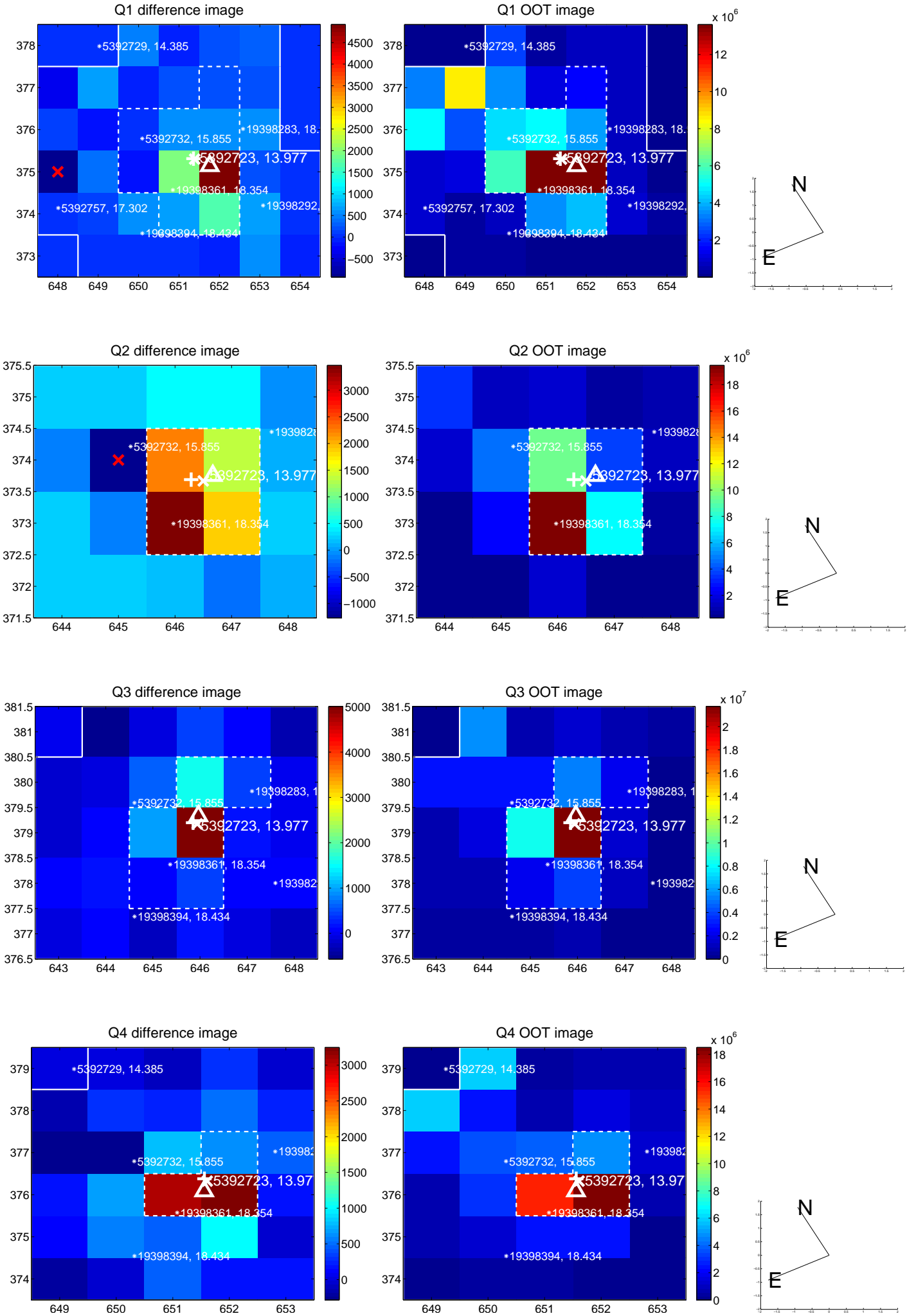
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.357 ± 0.233	1.54	-0.268 ± 0.274	-0.237 ± 0.164
PRF-fit source offset from KIC position	0.036 ± 0.195	0.18	0.021 ± 0.237	0.029 ± 0.169
photometric centroid source offset	2.97 ± 1.55	1.91	-0.62 ± 1.71	-2.90 ± 1.54

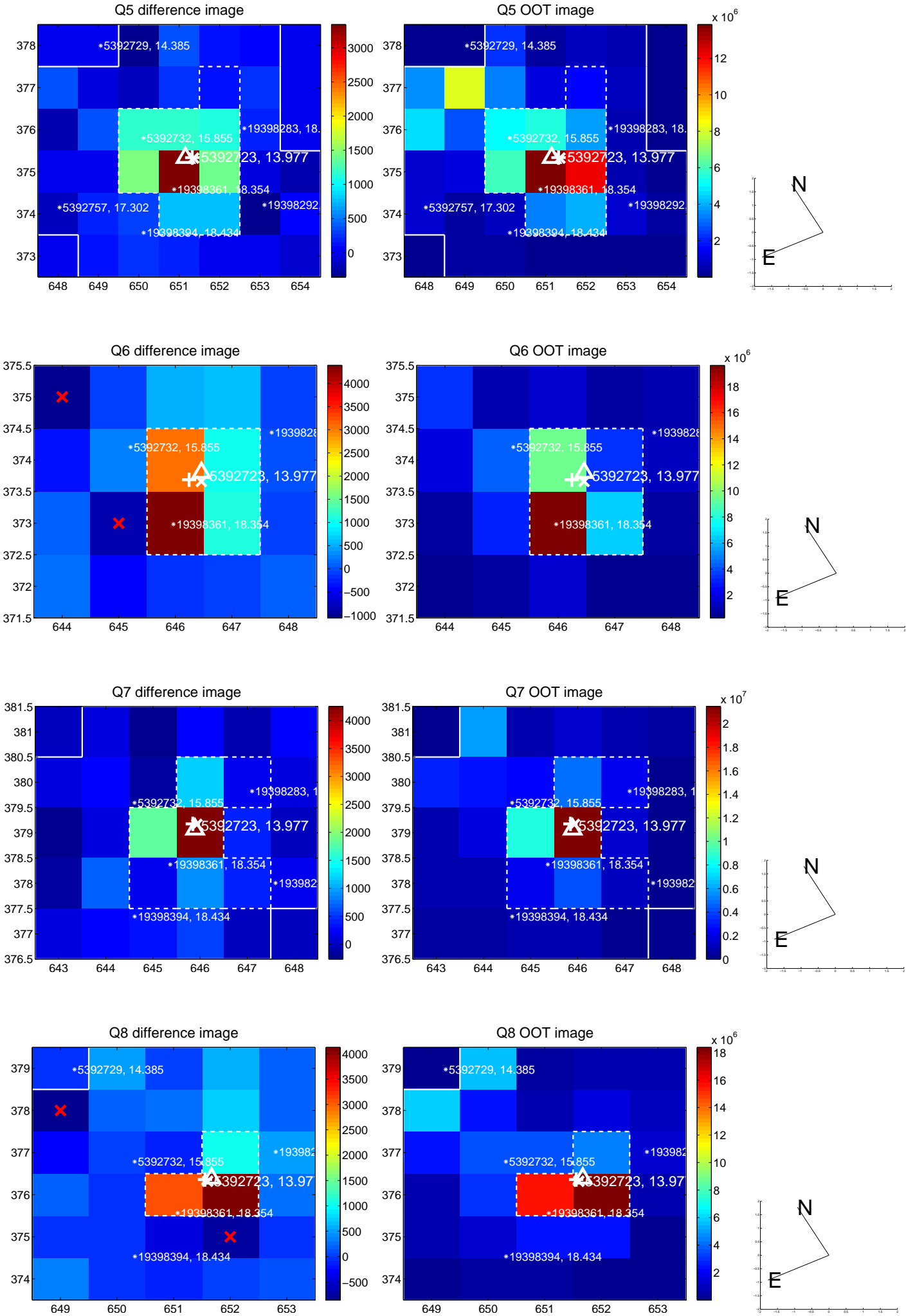


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

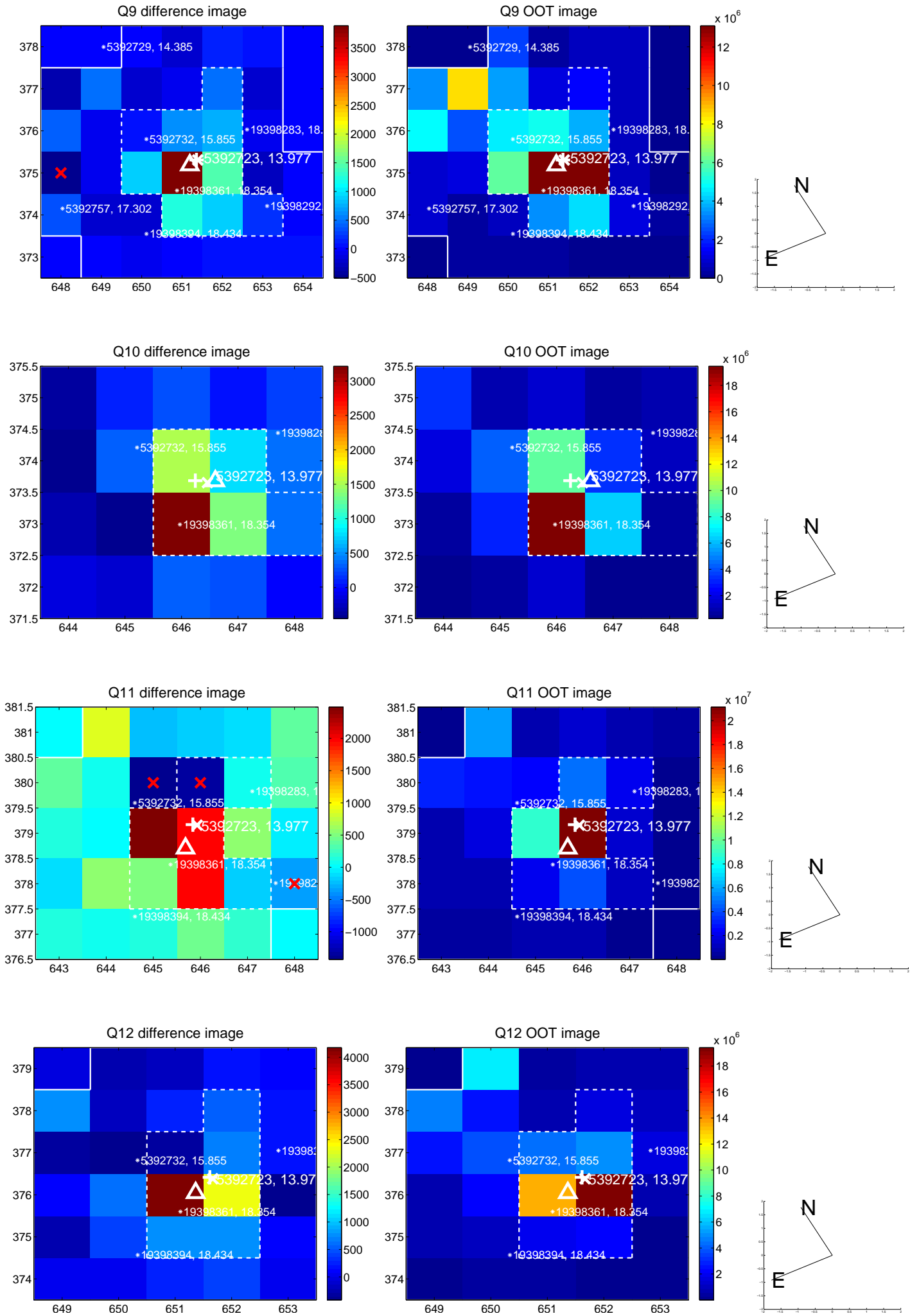
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



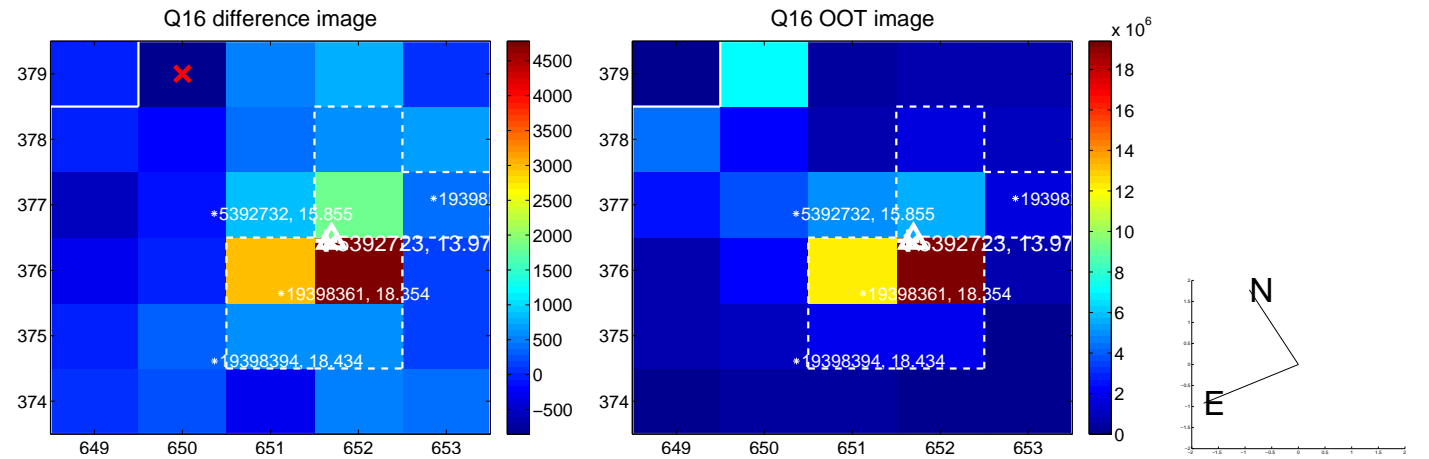
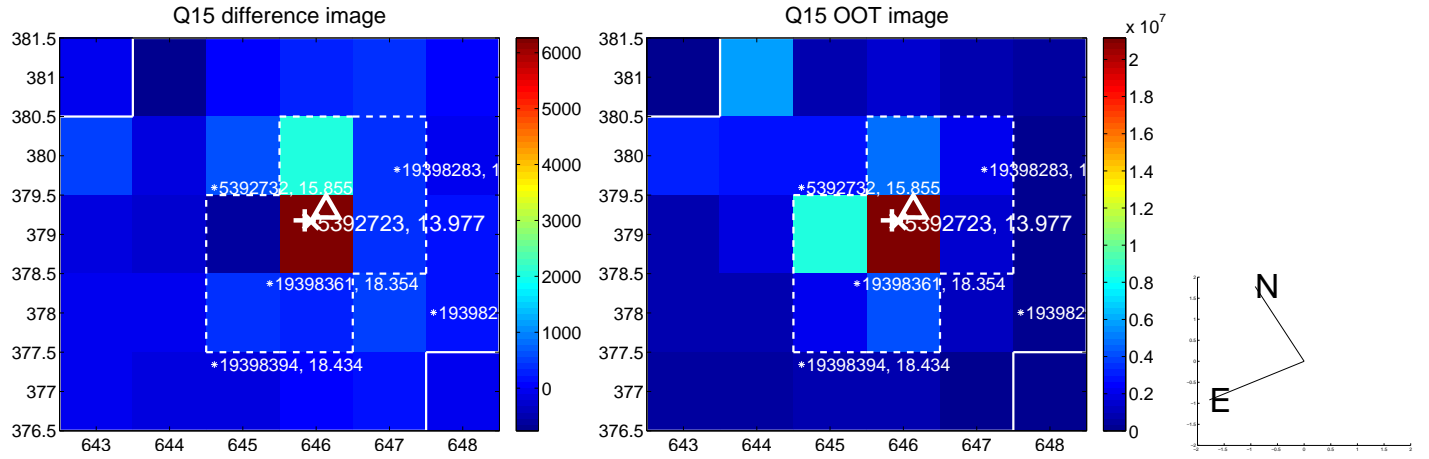
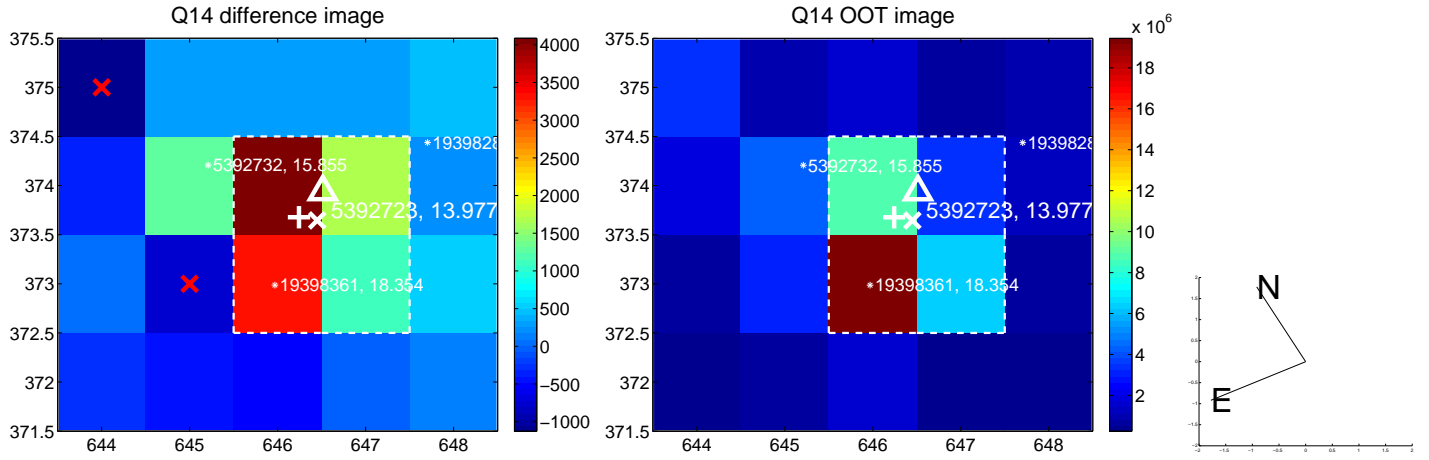
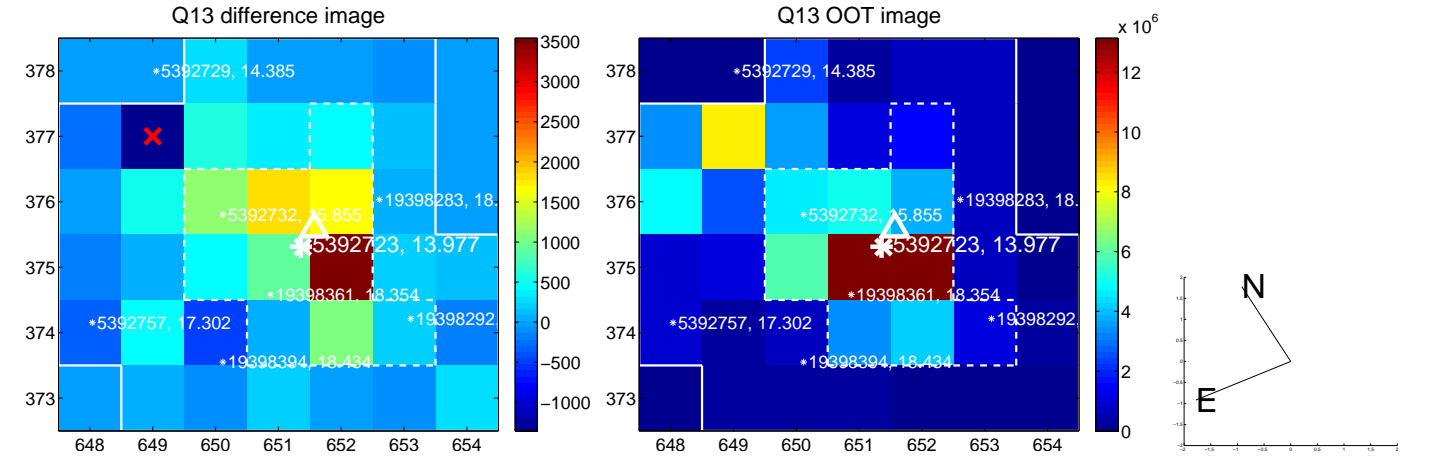
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



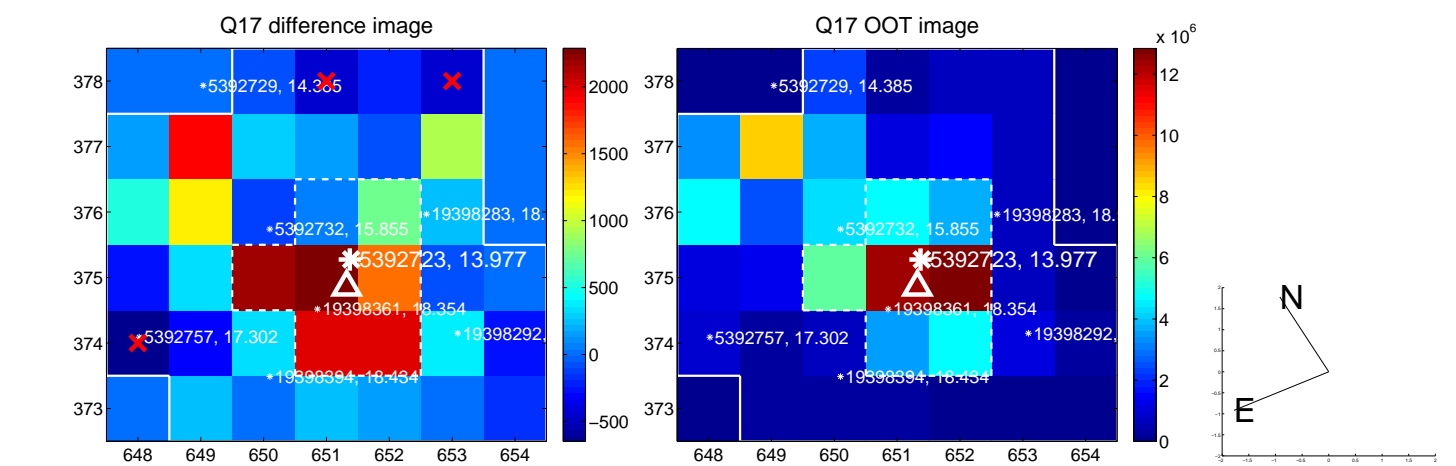
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



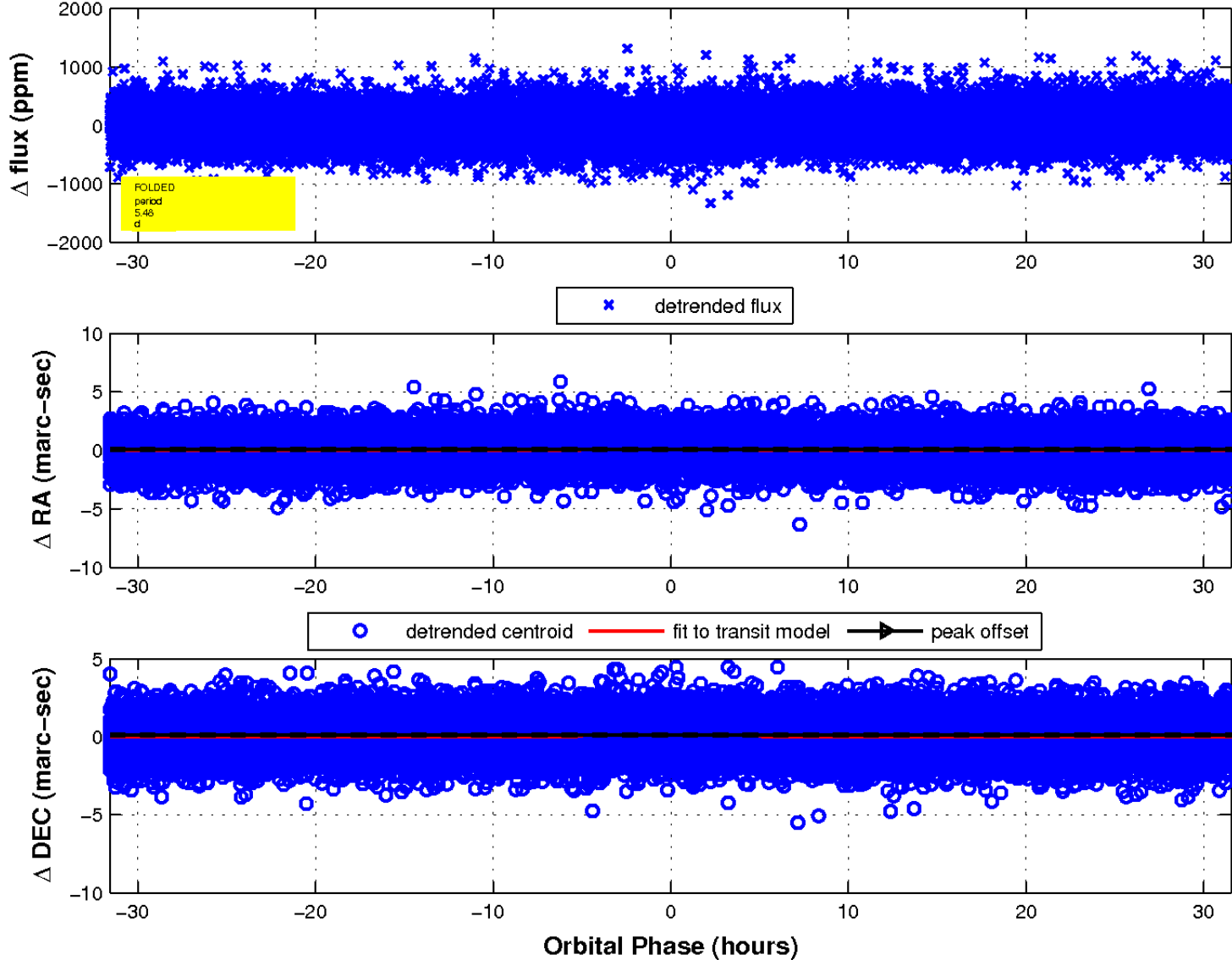
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

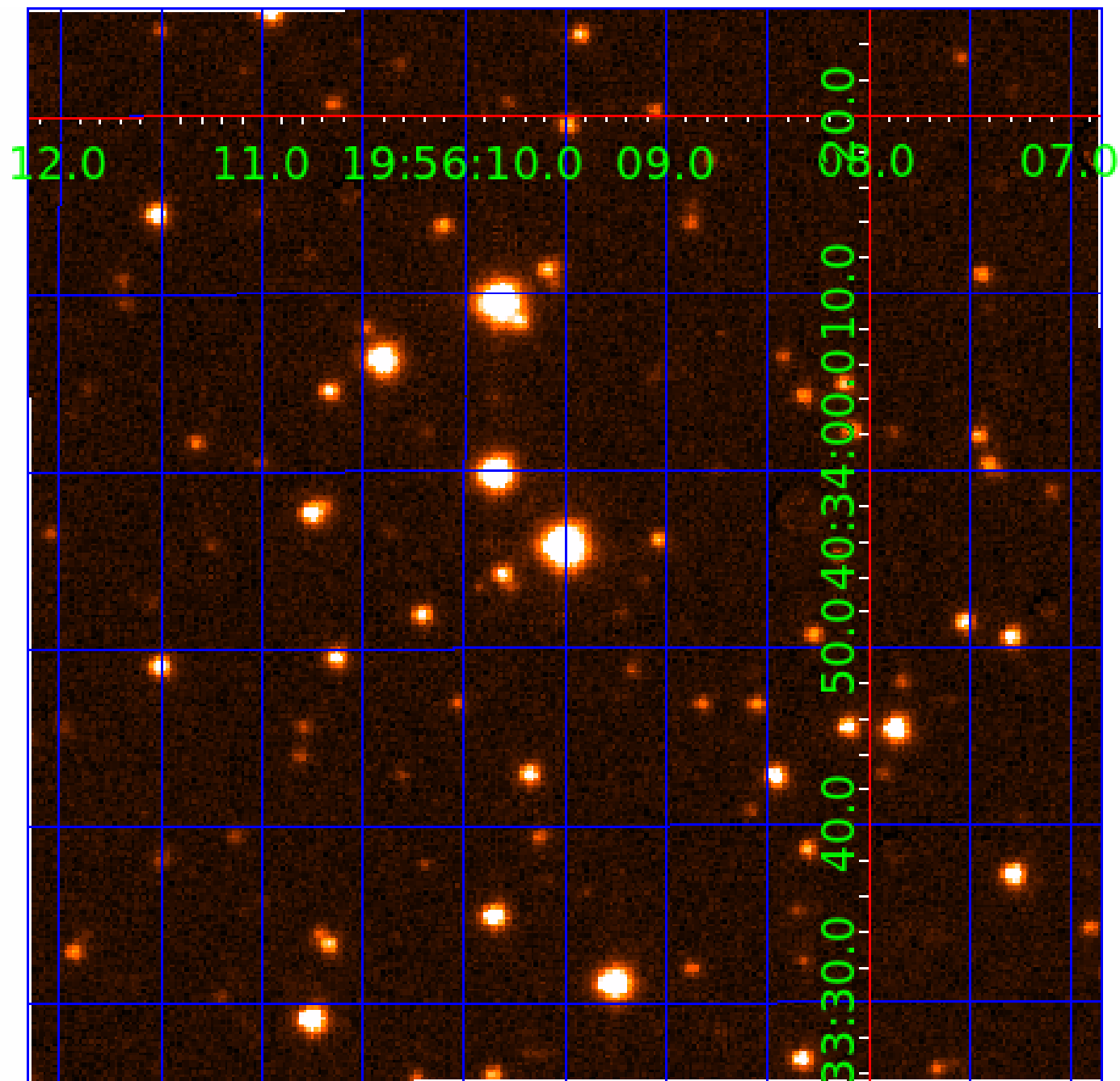


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 005392723

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})
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005392723-03	OBS	No	81.002092	199.929686	155.2	17.988	8.6	5.7	1.11	6462	1.47	16.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005392723-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005392723-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005392723-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_FEW_MEAS

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

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

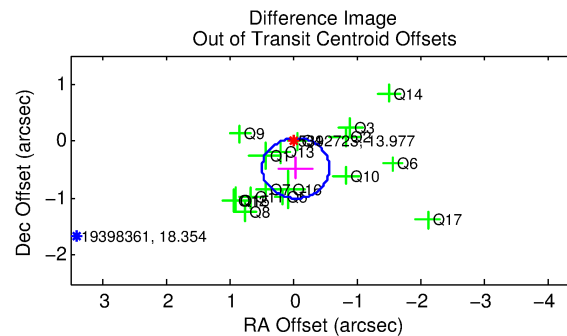
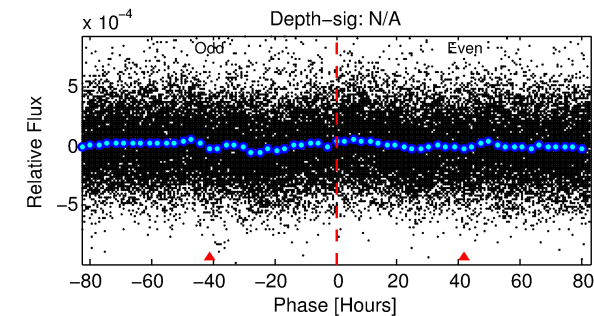
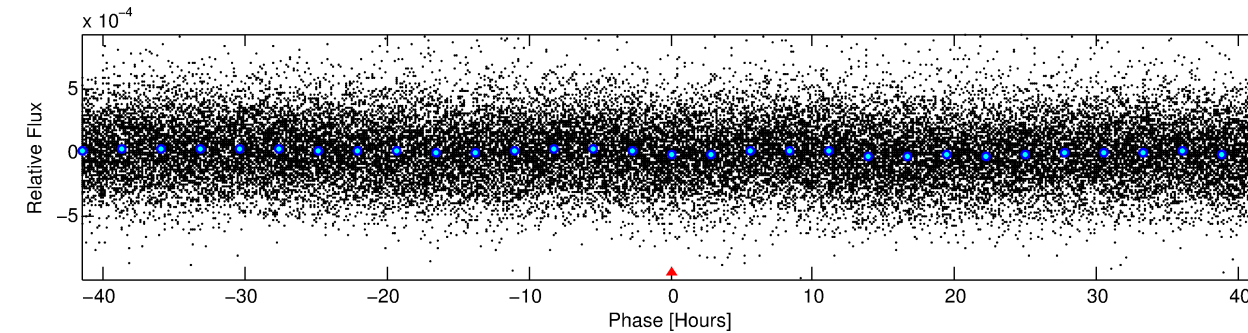
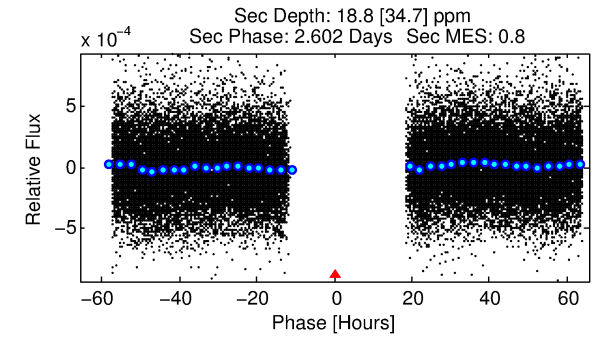
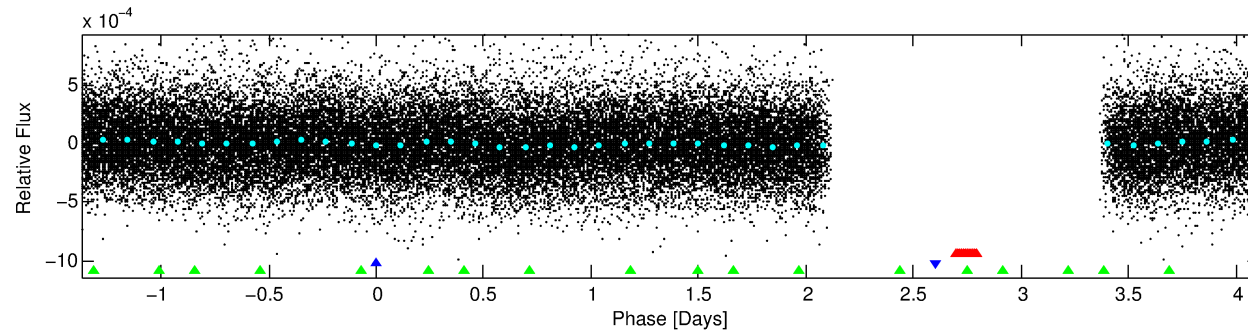
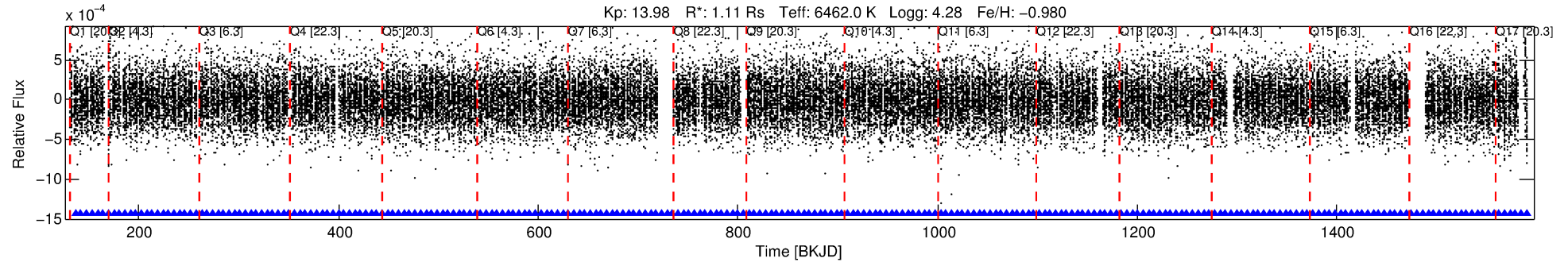
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005392723-02

No Significant Match Found

DV One-Page Summary

KIC: 5392723 Candidate: 2 of 3 Period: 5.484 d



TPS TCE Results:

Period = 5.48368 d
Epoch = 132.1444 BKJD

DV fit results are unavailable

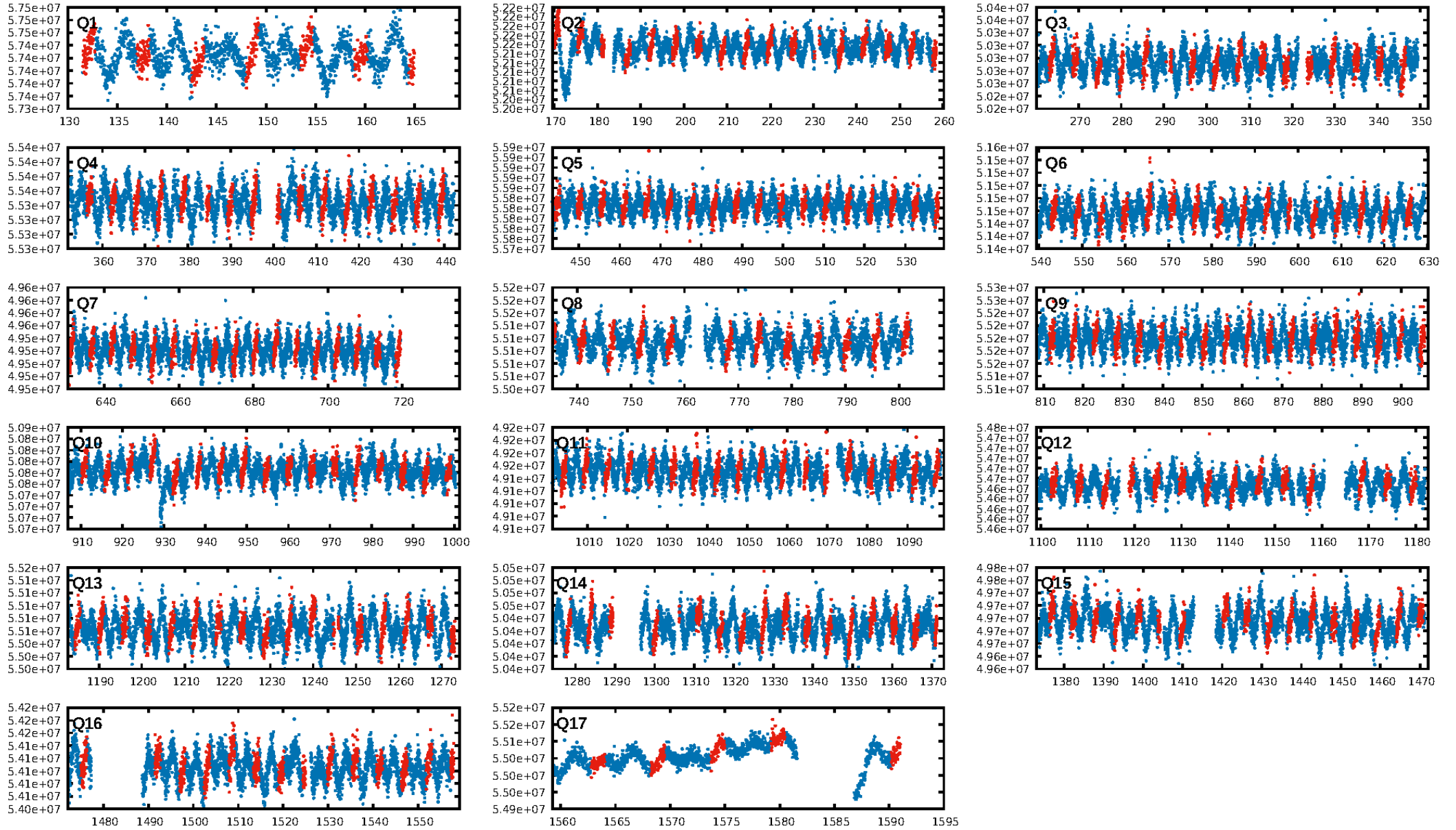
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 100.0% [77.38 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.89e-20
RollingBand-fgt: 1.00 [236/236]
GhostDiagnostic-chr: 0.5403
Centroid-sig: 0.1%
Centroid-so: 1.744 arcsec [1.81 σ]
OotOffset-rm: 0.472 arcsec [2.69 σ]
KicOffset-rm: 0.293 arcsec [1.35 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

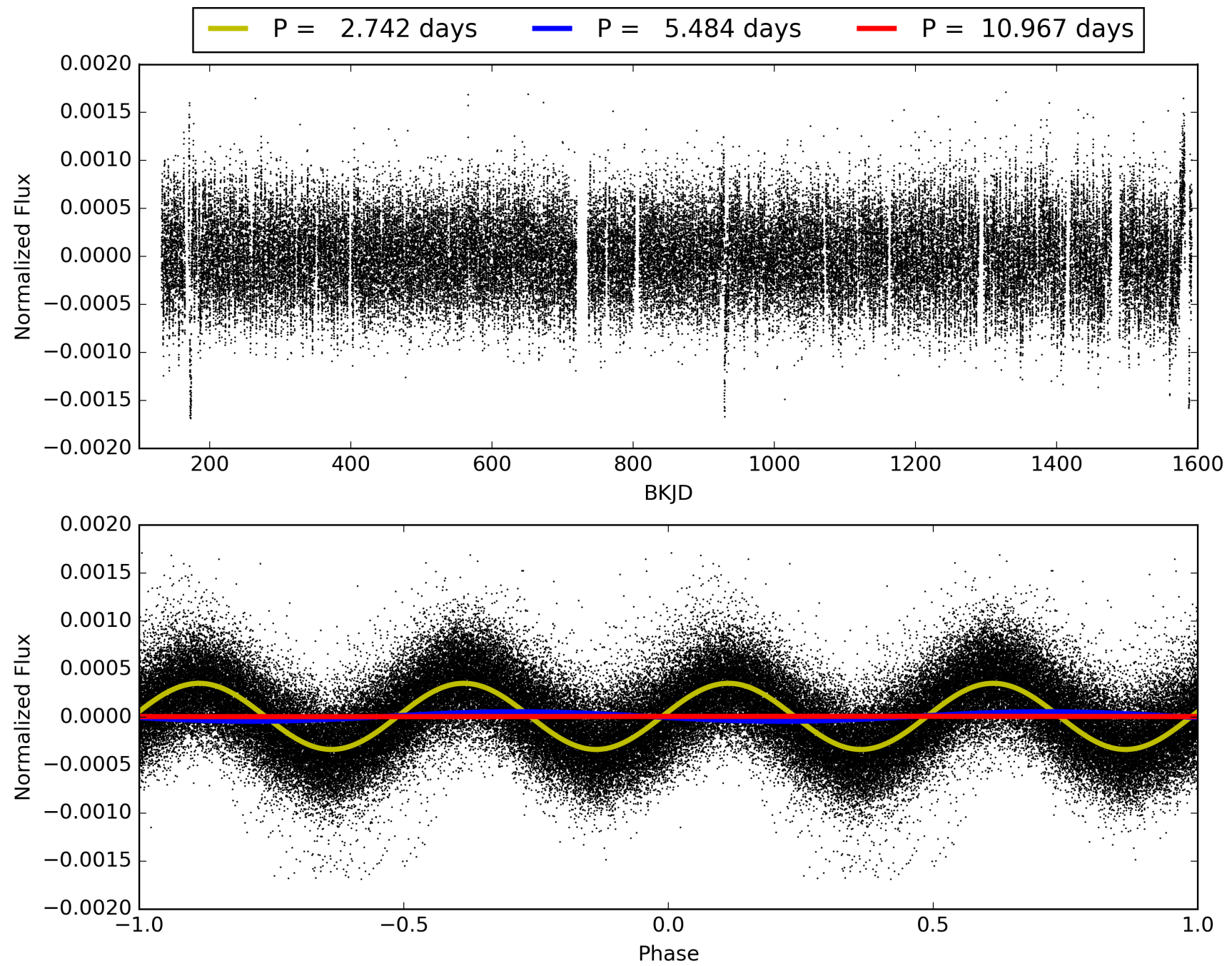
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 11:00:59 Z

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

TCE 005392723-02, PDC Light Curves

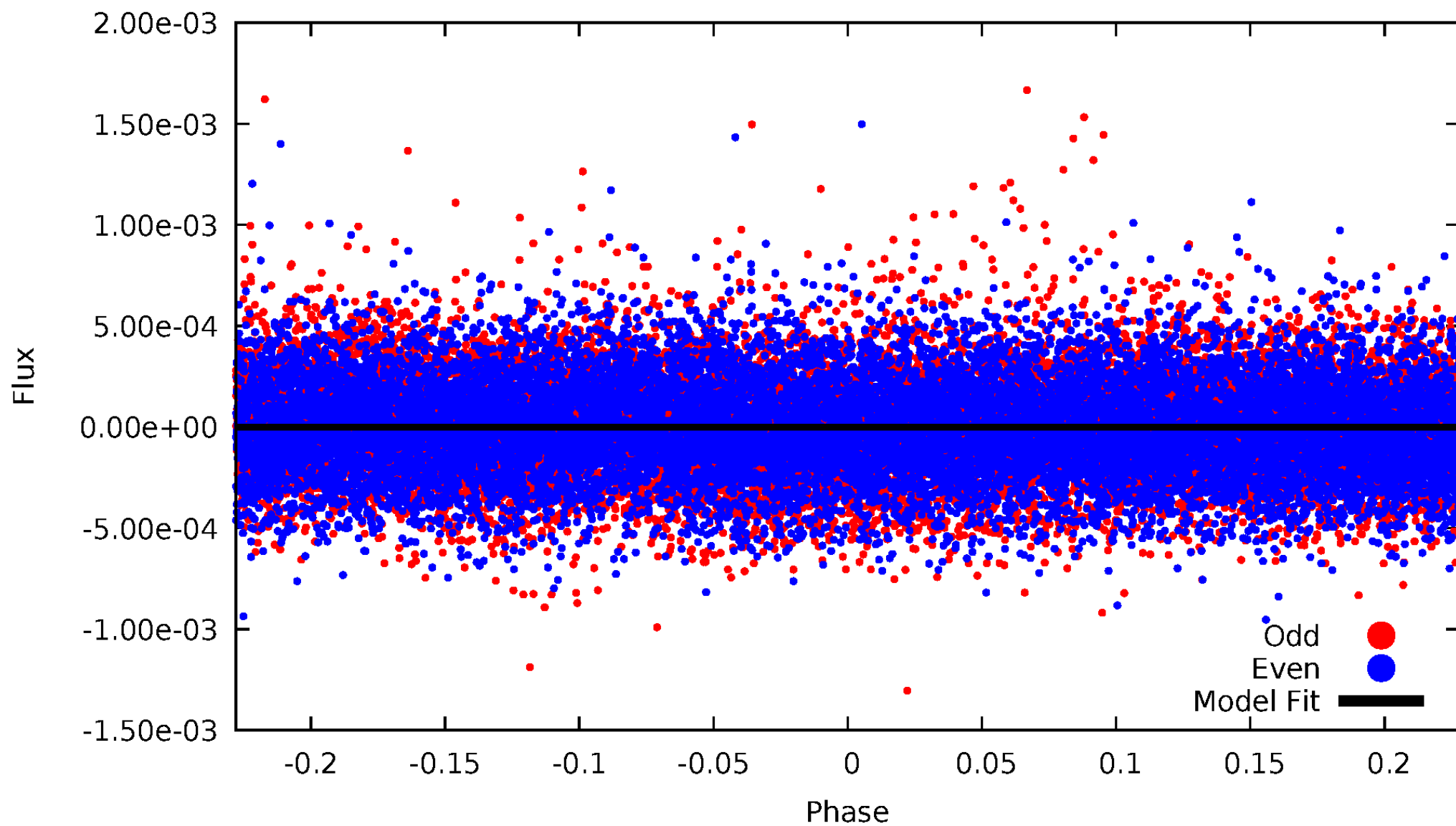


TCE 005392723-02



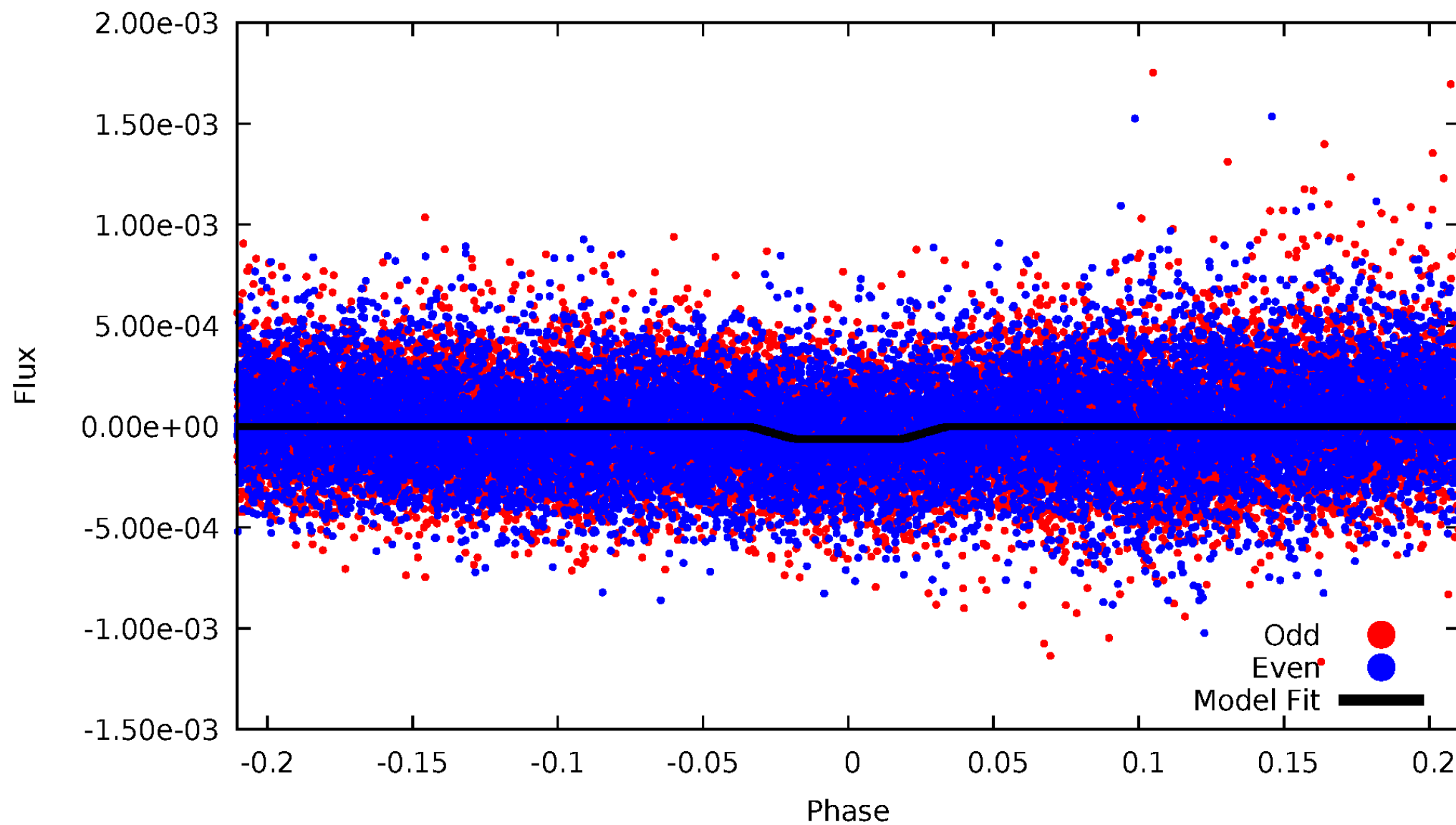
DV Odd/Even

TCE 005392723-02

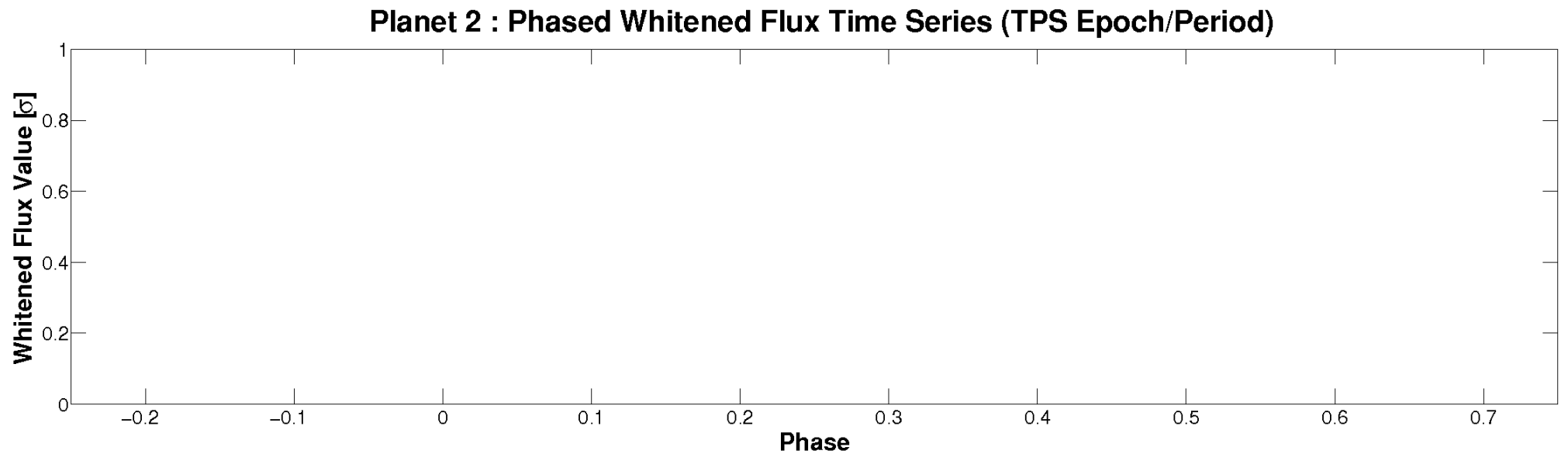
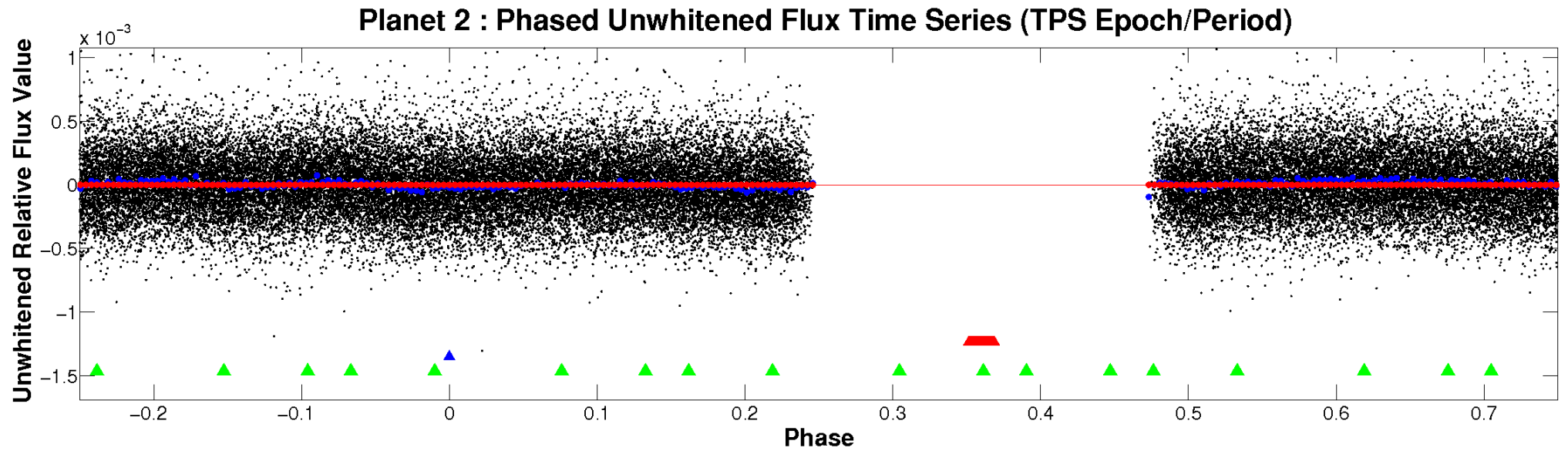


ALT Odd/Even

TCE 005392723-02

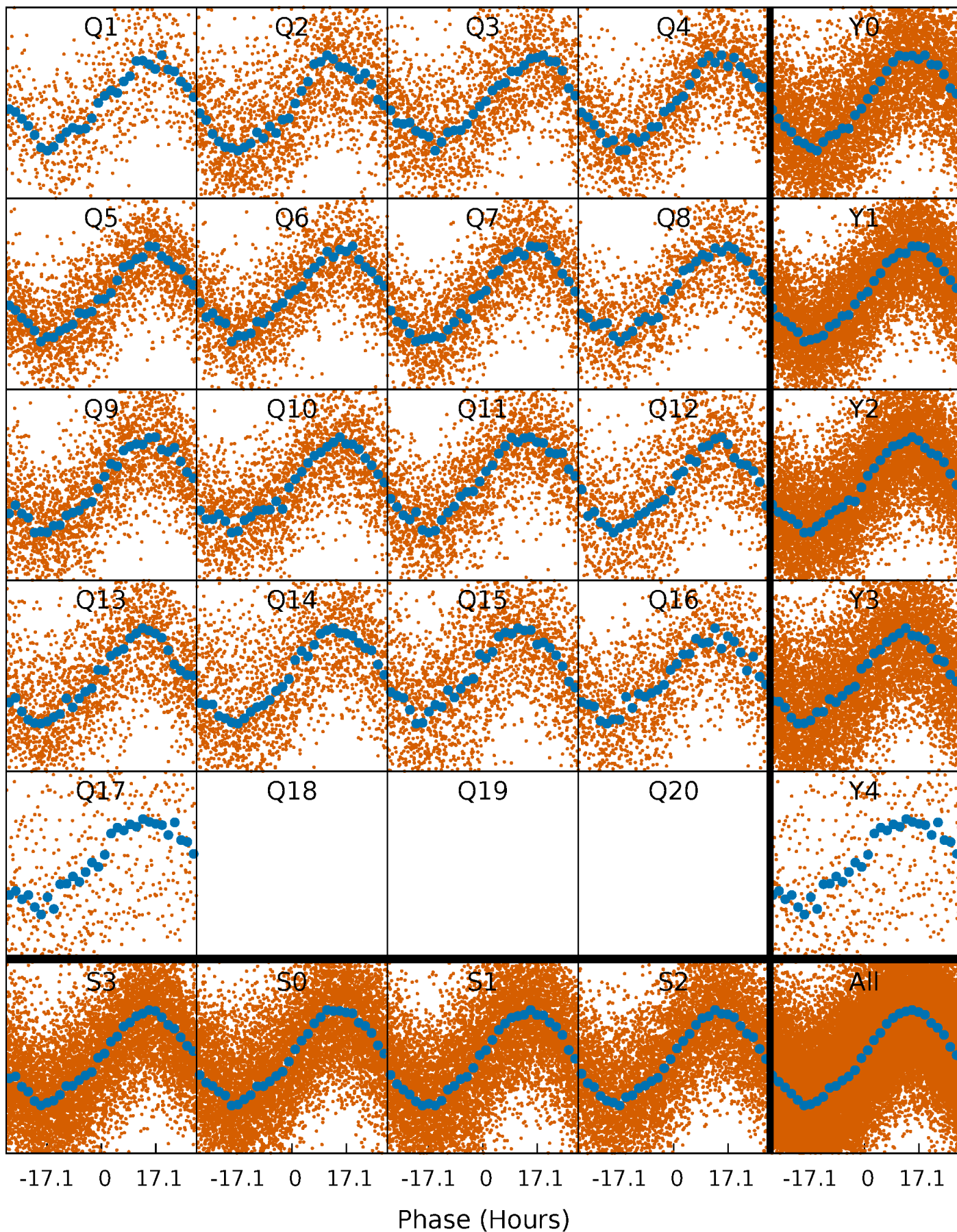


Non-Whitened Vs. Whitened Light Curve



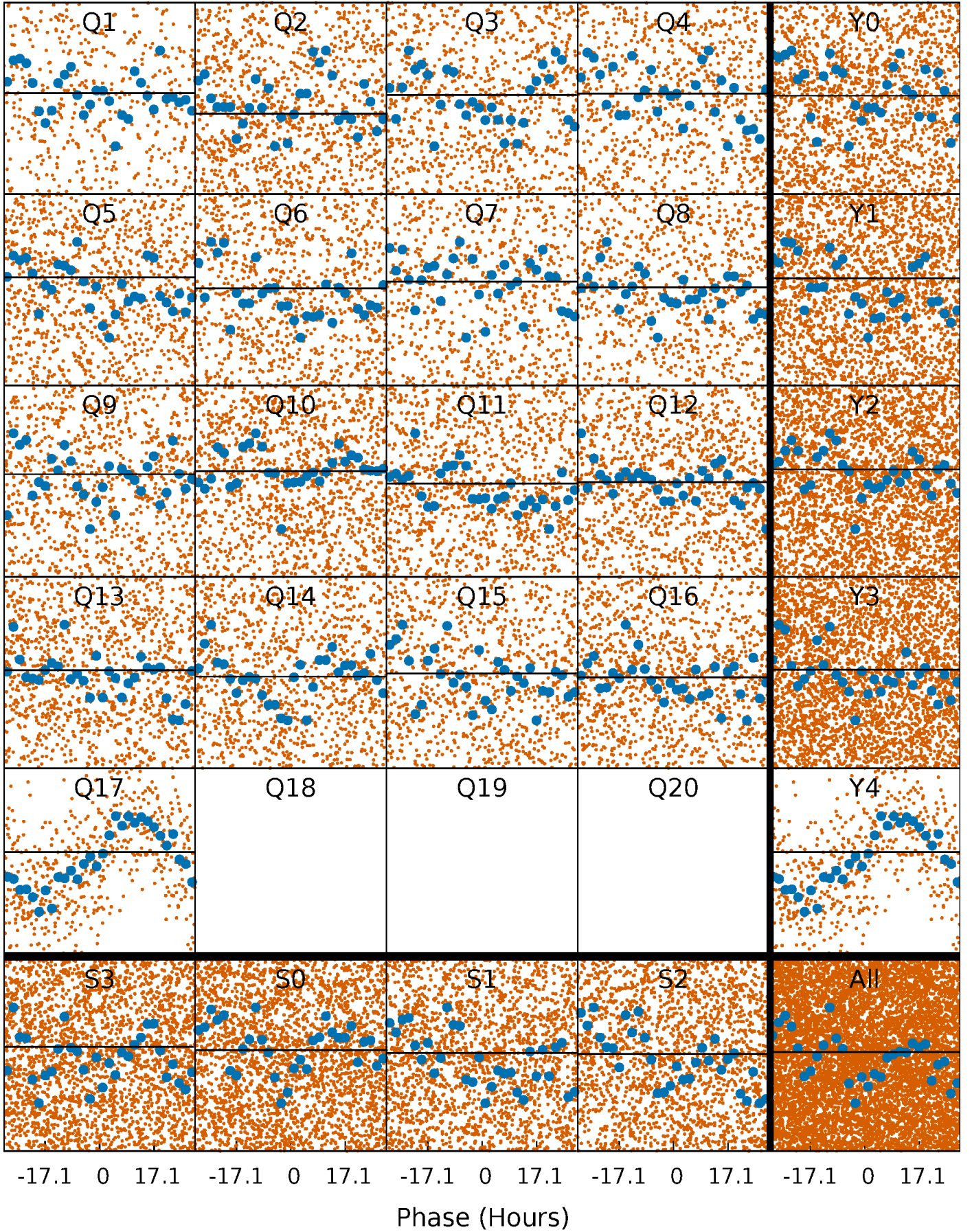
PDC Quarter-Phased Transit Curves

TCE 005392723-02 P= 5.483684 Days $T_0=132.144434$ (BKJD)



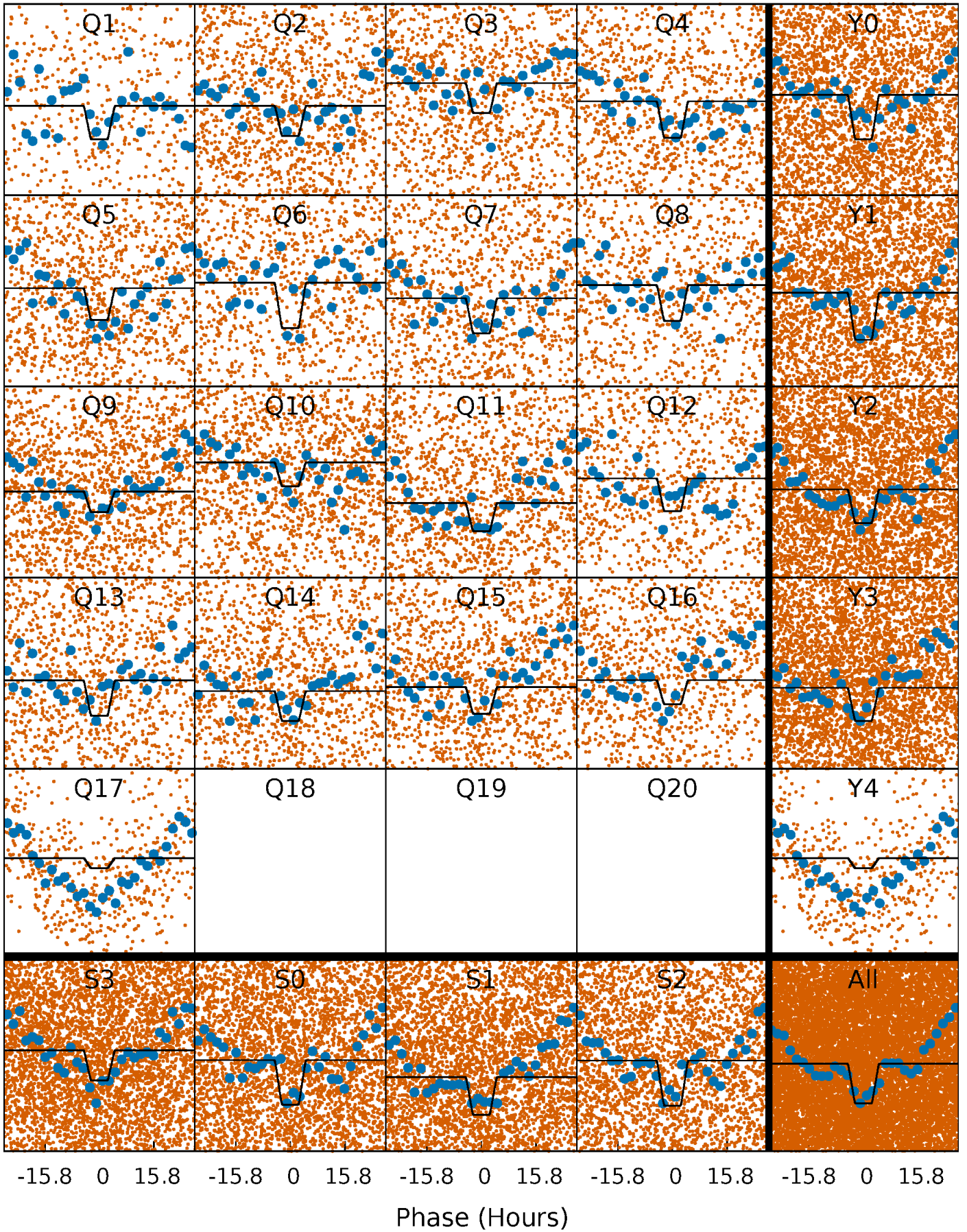
DV Quarter-Phased Transit Curves

TCE 005392723-02 P= 5.483684 Days $T_0=132.144434$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

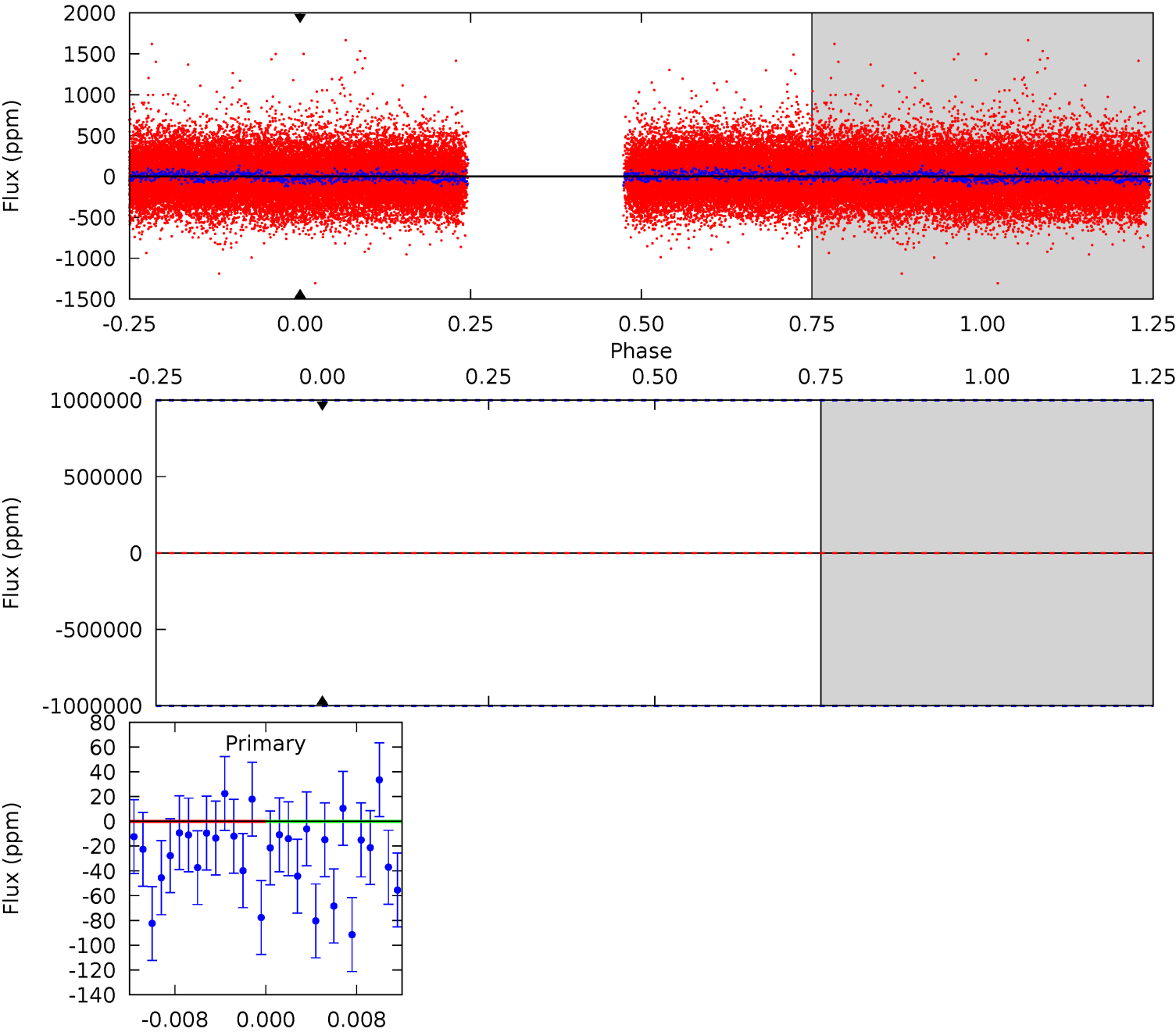
TCE 005392723-02 P= 5.483684 Days $T_0=136.857133$ (BKJD)



DV Model-Shift Uniqueness Test

005392723-02, P = 5.483684 Days, E = 126.660750 Days

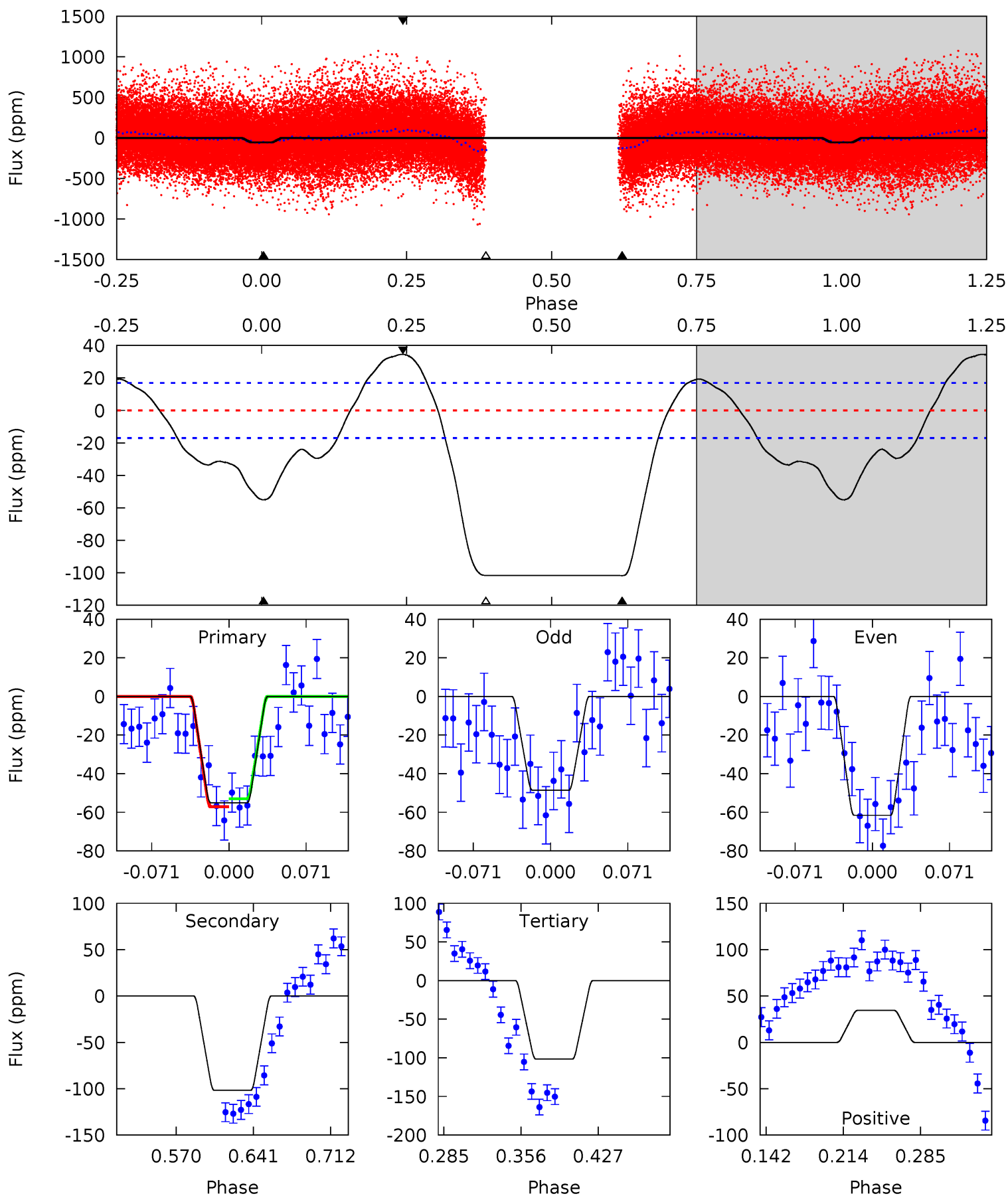
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005392723-02, P = 5.483684 Days, E = 131.373449 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.0	27.7	27.7	9.40	4.64	1.80	8.47	-12.7	5.61	0.03	18.3	1.77	1.14	0.25	0.55



Stellar Parameters For KIC 005392723

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6462^{+180}_{-225}	$4.277^{+0.214}_{-0.175}$	$-0.980^{+0.300}_{-0.300}$	$1.113^{+0.257}_{-0.257}$	$0.856^{+0.104}_{-0.061}$	$0.875^{+0.959}_{-0.395}$
	+3%/-3%	+5%/-4%	+31%/-31%	+23%/-23%	+12%/-7%	+110%/-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 005392723-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$8.89^{+9.76}_{-6.01}$	1746^{+128}_{-127}	-4703^{+33267}_{-18889}	$-30.674^{+4387.611}_{-2929.762}$
Alt.	-102 ± 4	$8.98^{+9.29}_{-6.24}$	1738^{+128}_{-121}	2983^{+1500}_{-677}	$2.386^{+23.118}_{-1.824}$

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

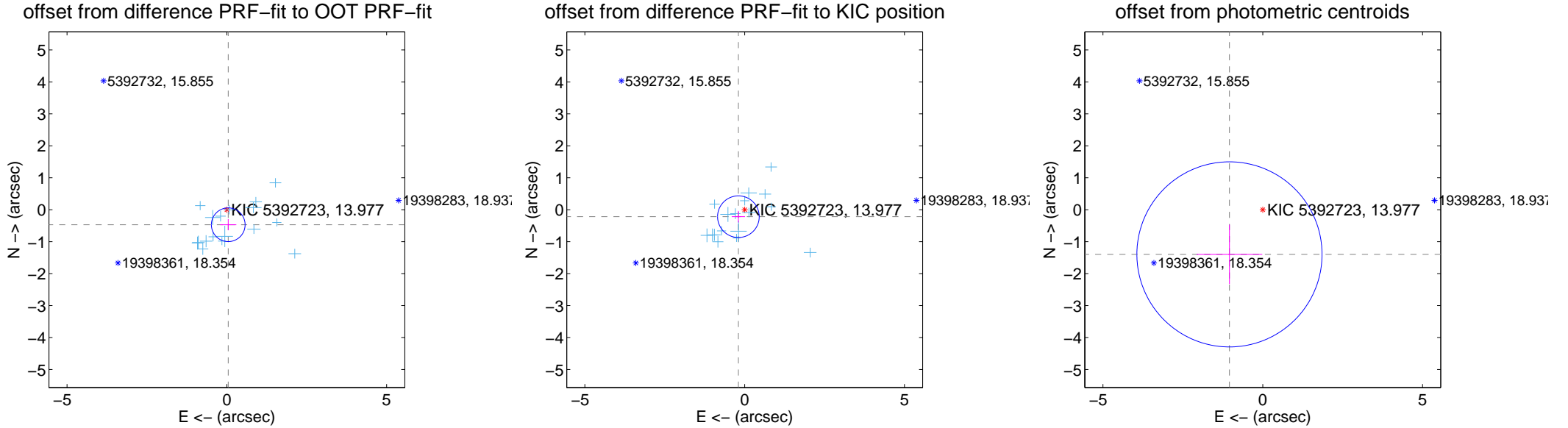
DV Centroid Data

Supplemental centroid analysis for 005392723-02. Kepler magnitude: 13.98. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

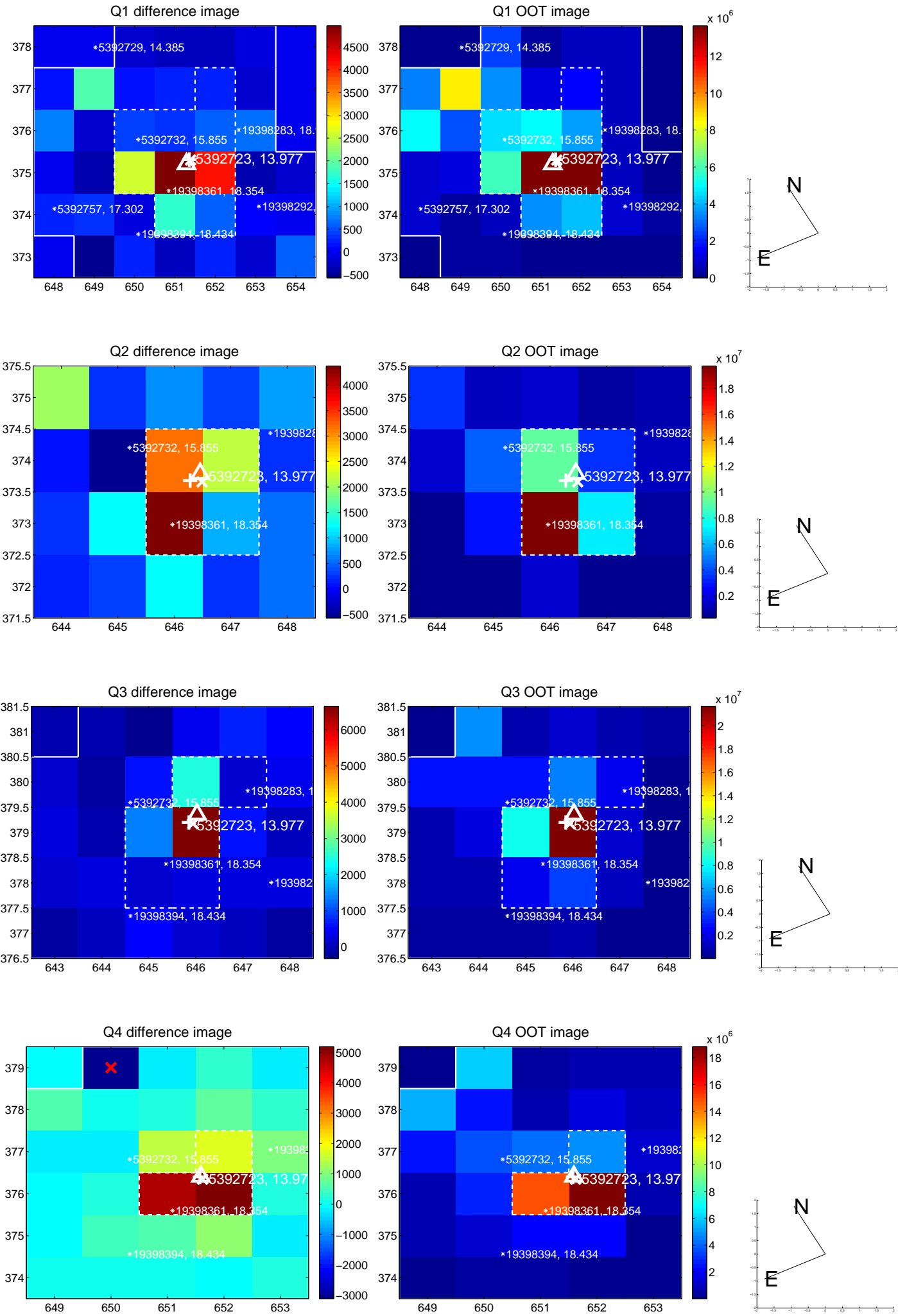
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.472 ± 0.176	2.69	-0.044 ± 0.252	-0.470 ± 0.175
PRF-fit source offset from KIC position	0.293 ± 0.217	1.35	0.196 ± 0.209	-0.218 ± 0.180
photometric centroid source offset	1.74 ± 0.97	1.81	1.04 ± 1.03	-1.40 ± 0.93

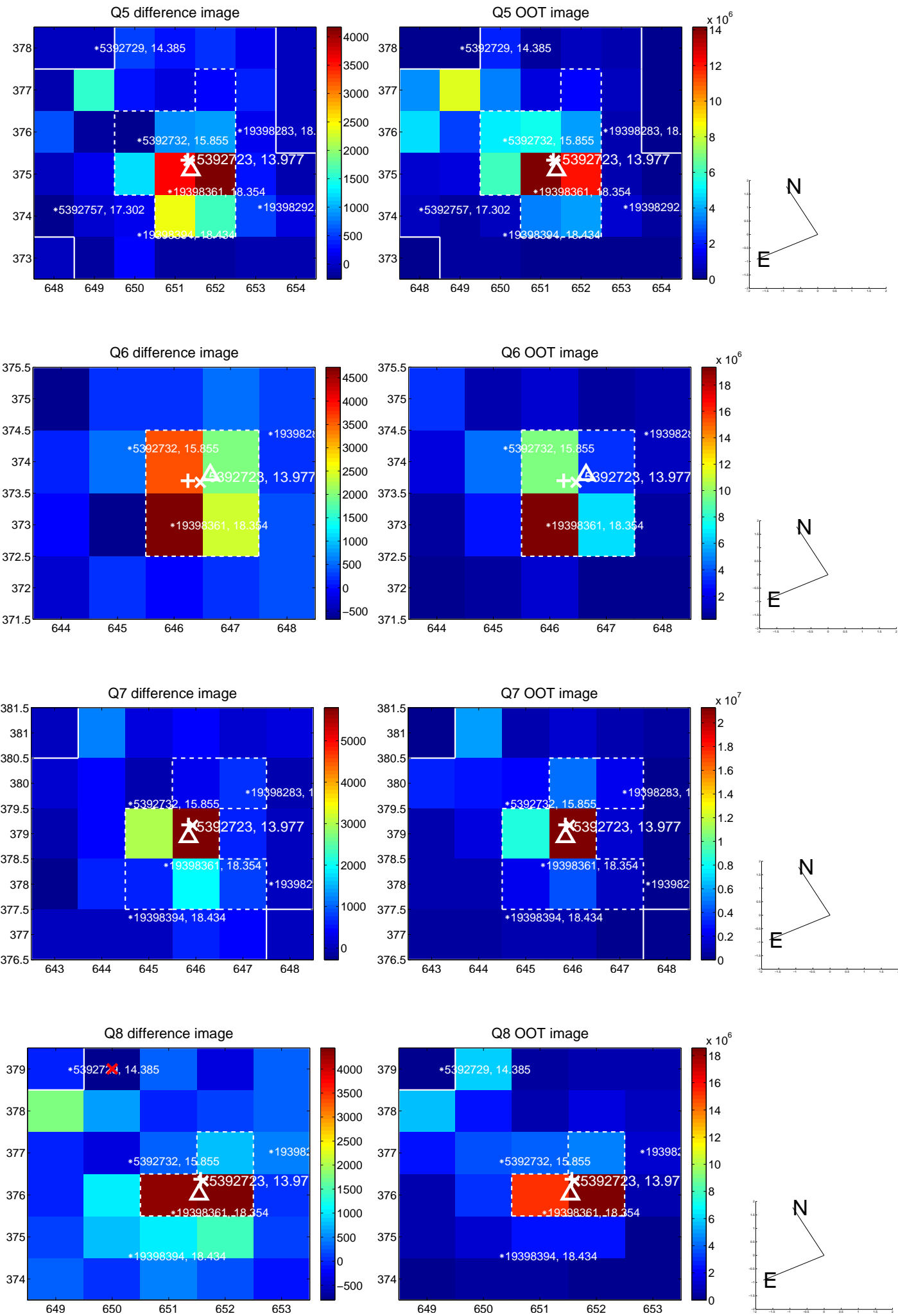


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

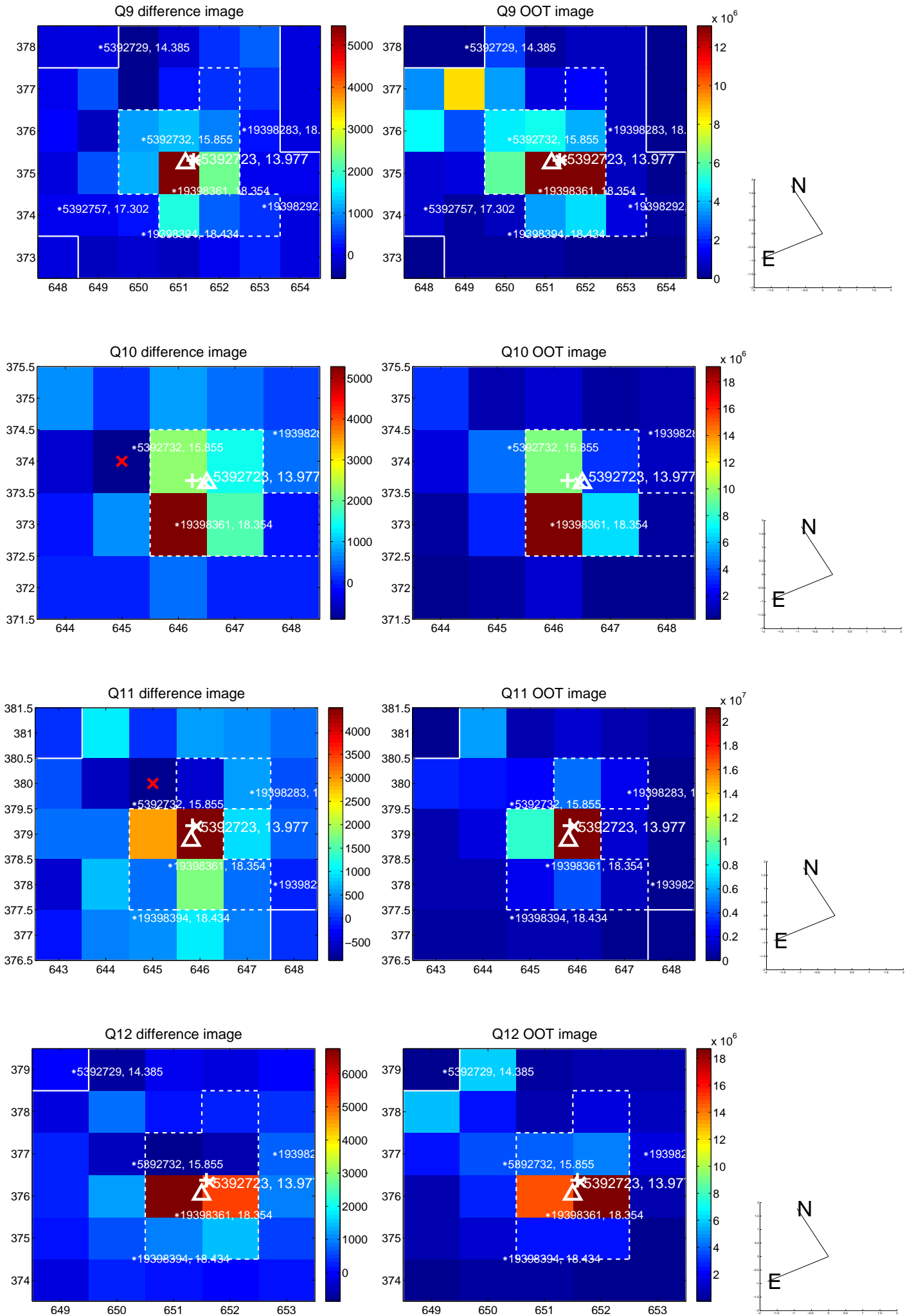
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



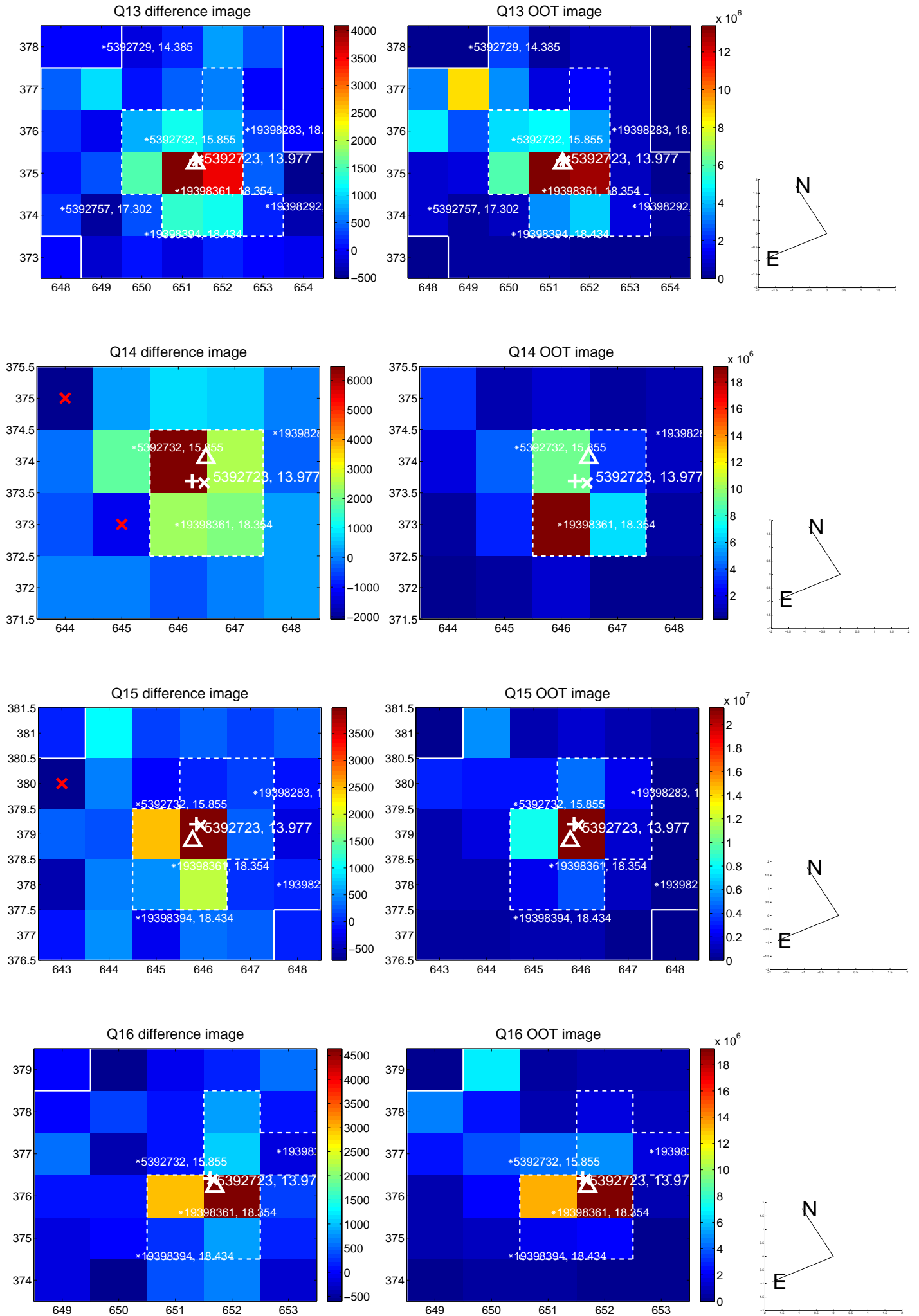
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



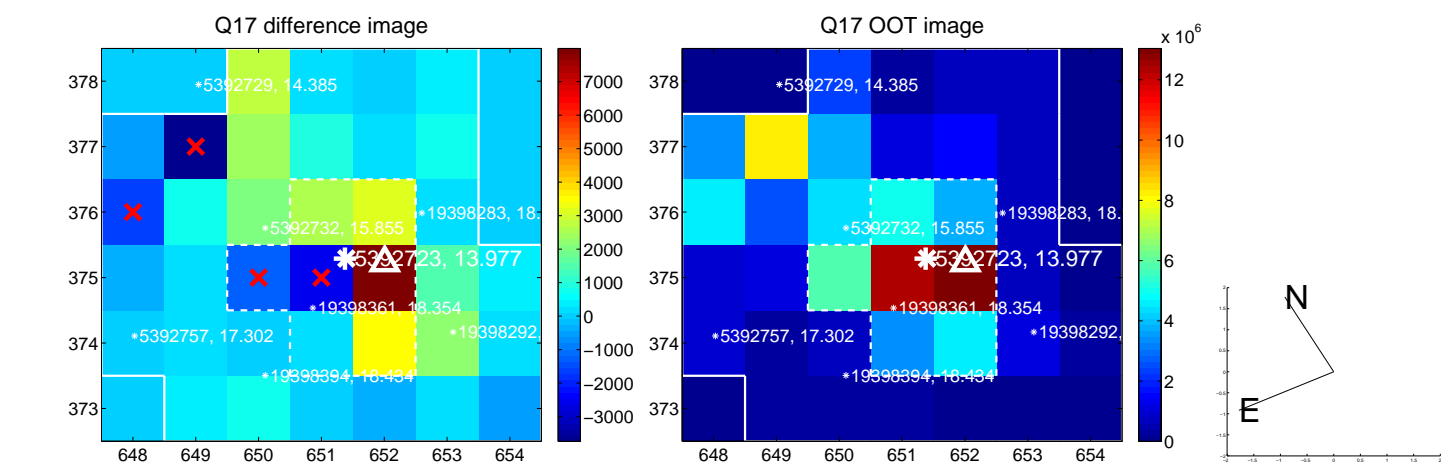
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



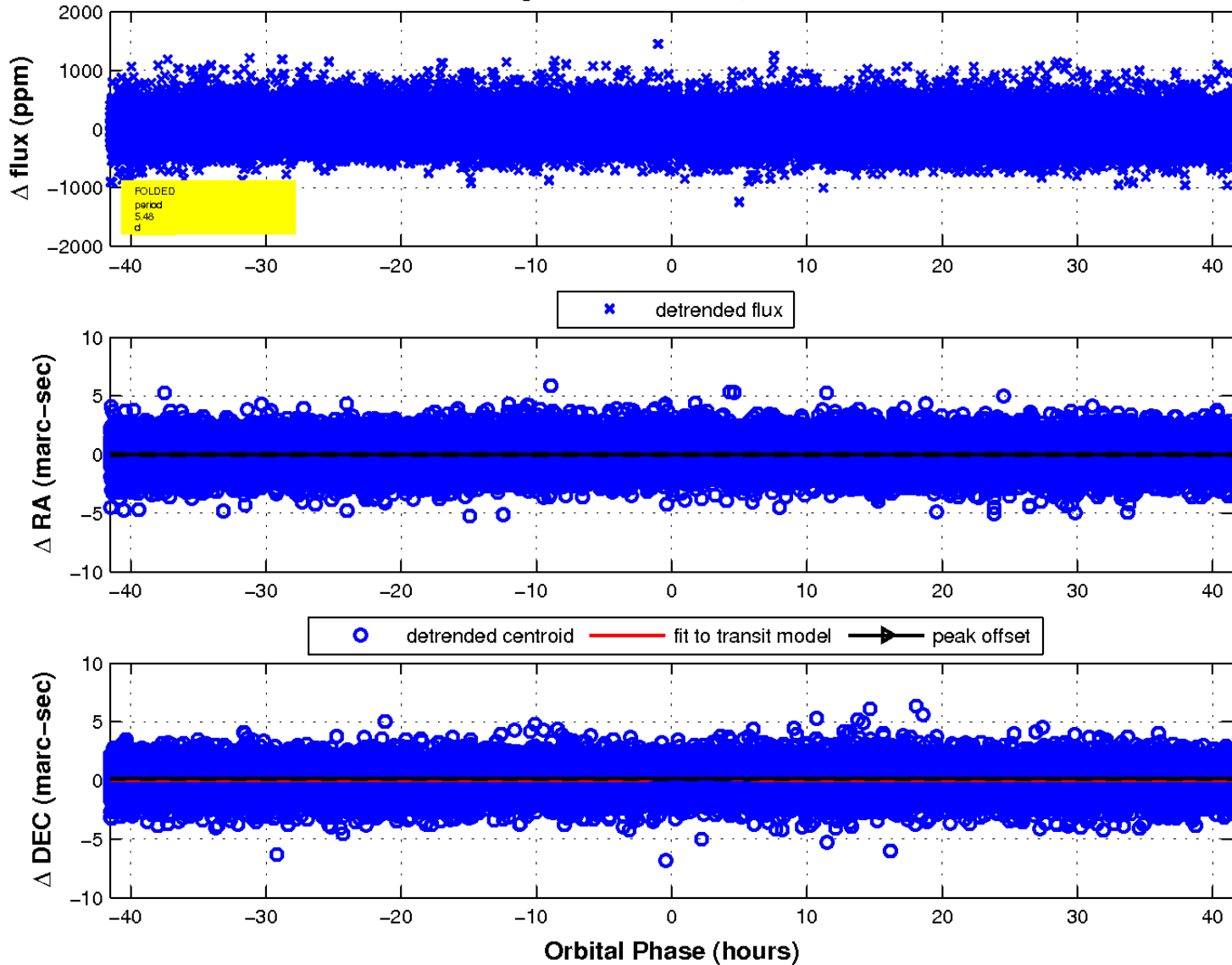
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

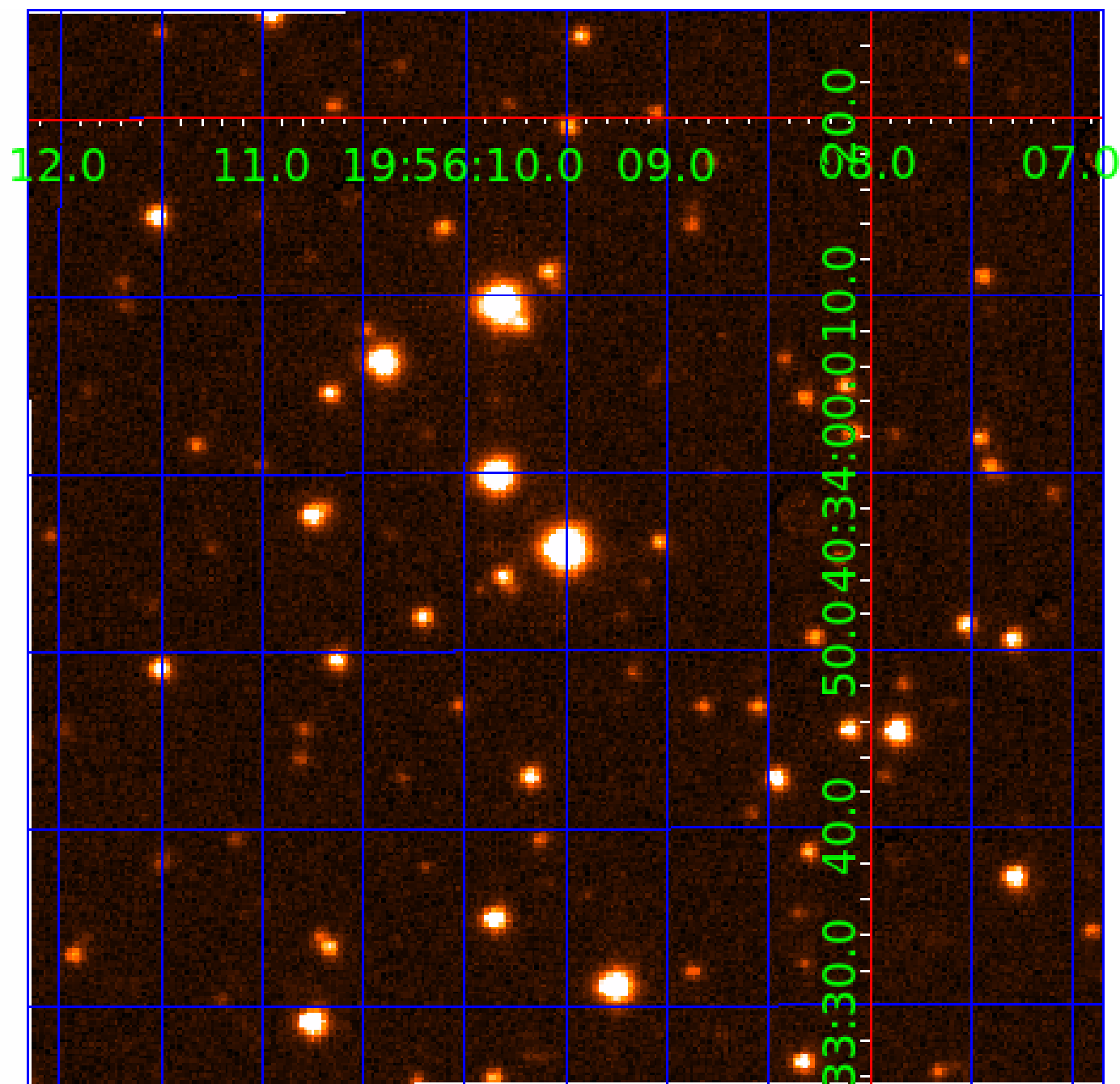


fluxWeightedCentroids, Planet 2 of 3



UKIRT Image

Declination



KIC 005392723

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})
005392723-01	OBS	No	5.483327	134.166086	33.4	10.521	8.2	6.4	1.11	6462	0.71	579.83
005392723-02	OBS	No	5.483684	132.144434	121.2	15.000	8.0	-1.0	1.11	6462	1.23	579.78
005392723-03	OBS	No	81.002092	199.929686	155.2	17.988	8.6	5.7	1.11	6462	1.47	16.00

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005392723-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005392723-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD—CENT_NOFITS
005392723-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_FEW_MEAS

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

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

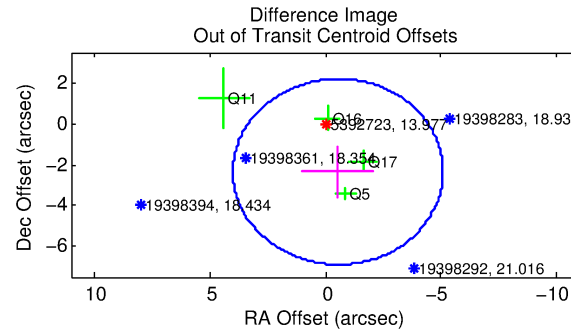
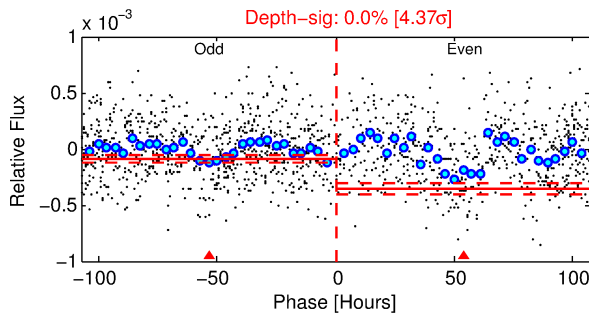
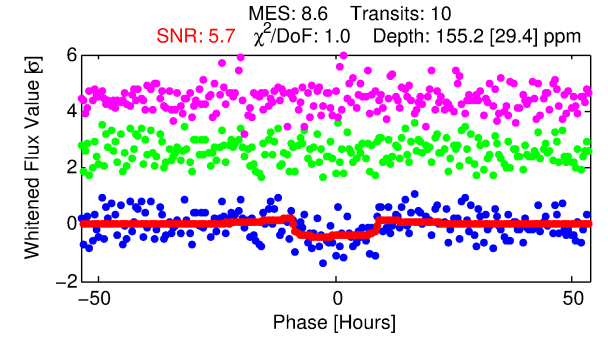
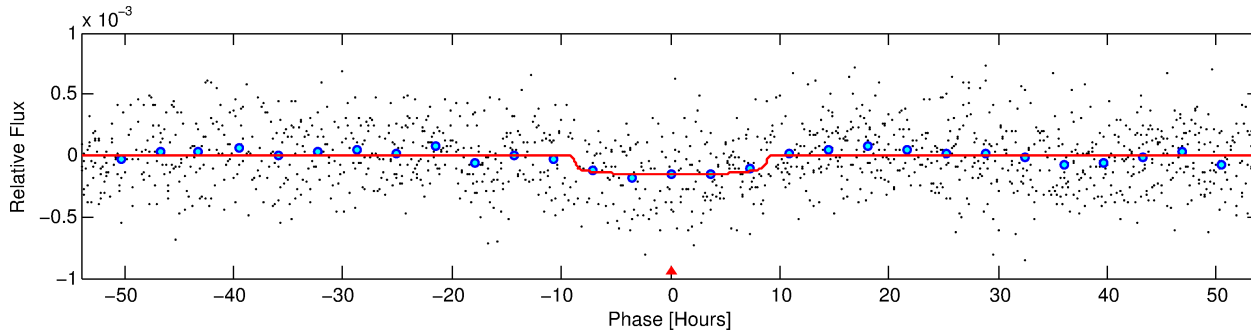
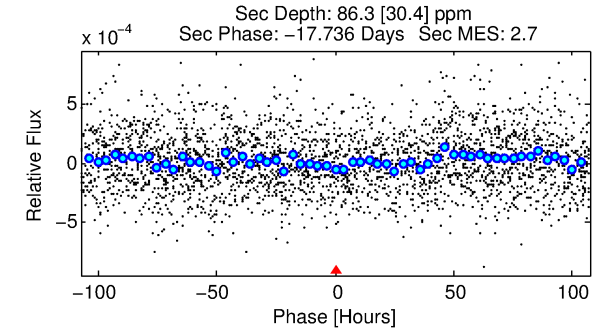
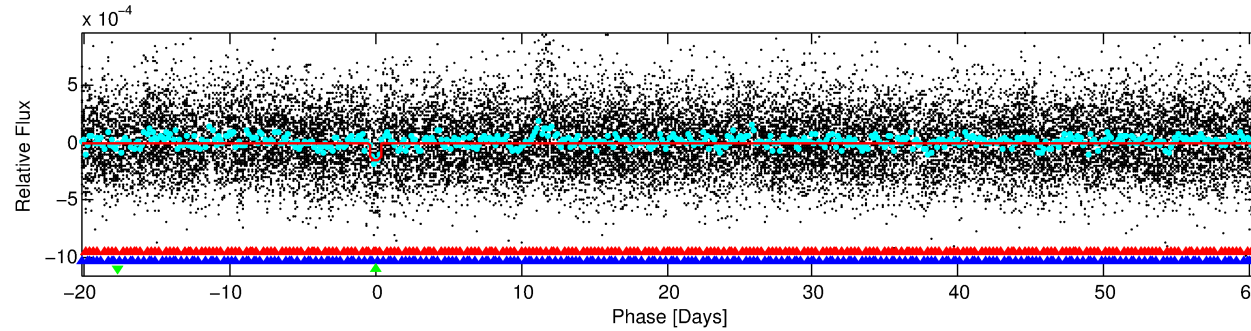
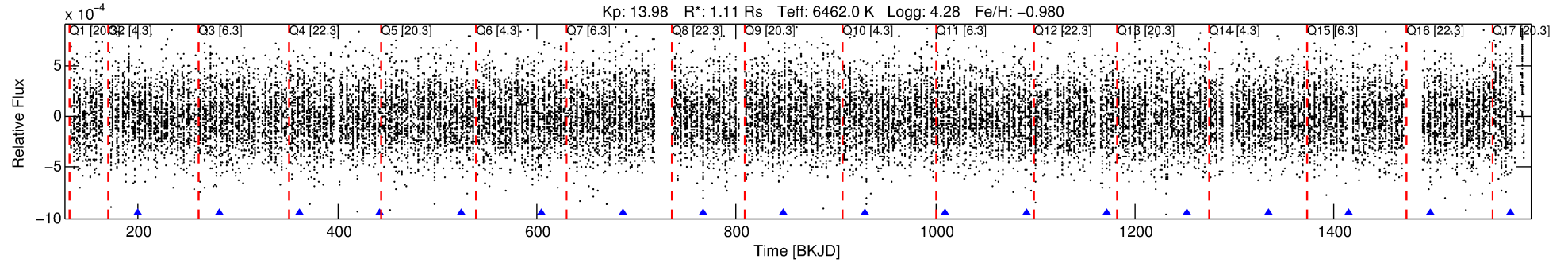
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005392723-03

No Significant Match Found

DV One-Page Summary

KIC: 5392723 Candidate: 3 of 3 Period: 81.002 d



DV Fit Results:

Period = 81.00209 [0.00389] d
Epoch = 199.9297 [0.0495] BKJD
Rp/R* = 0.0121 [0.0066]
a/R* = 26.11 [77.69]
b = 0.67 [2.46]
Seff = 16.00 [6.22]
Teff = 510 [50] K
Rp = 1.47 [0.87] Re
a = 0.3478 [0.0783] AU
Ag = 2643.69 [3157.37] [0.84σ]
Teffp = 5654 [1620] K [3.17σ]

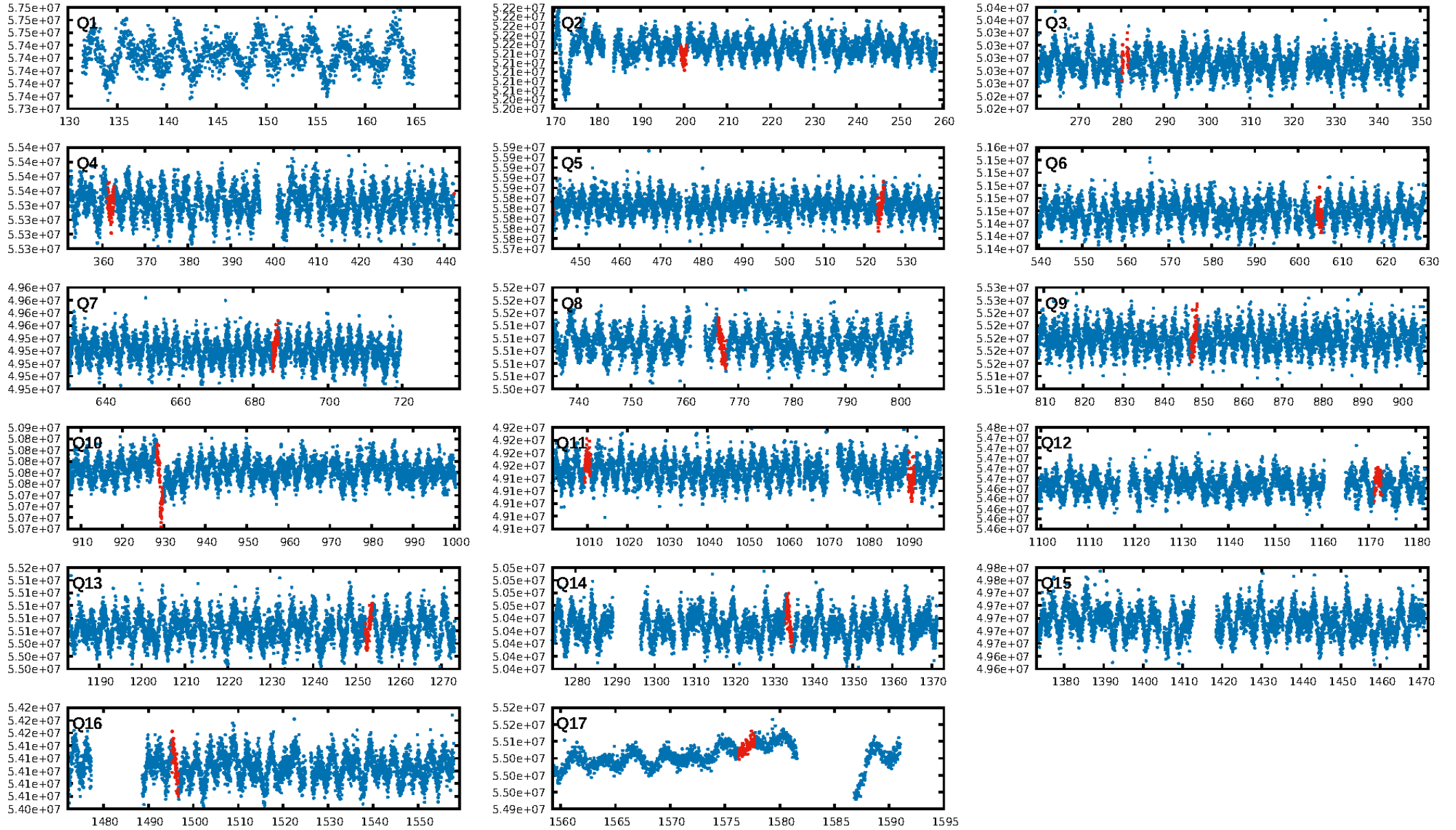
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [77.38σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.02e-13
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: 16.44
Centroid-sig: 0.0%
Centroid-so: 3.268 arcsec [2.72σ]
OotOffset-rm: 2.410 arcsec [1.59σ]
KicOffset-rm: 2.296 arcsec [1.98σ]
OotOffset-st: 0/1/1/2 [4]
KicOffset-st: 0/1/1/2 [4]
DiffImageQuality-fgm: 0.00 [0/4]
DiffImageOverlap-fno: 0.00 [0/11]

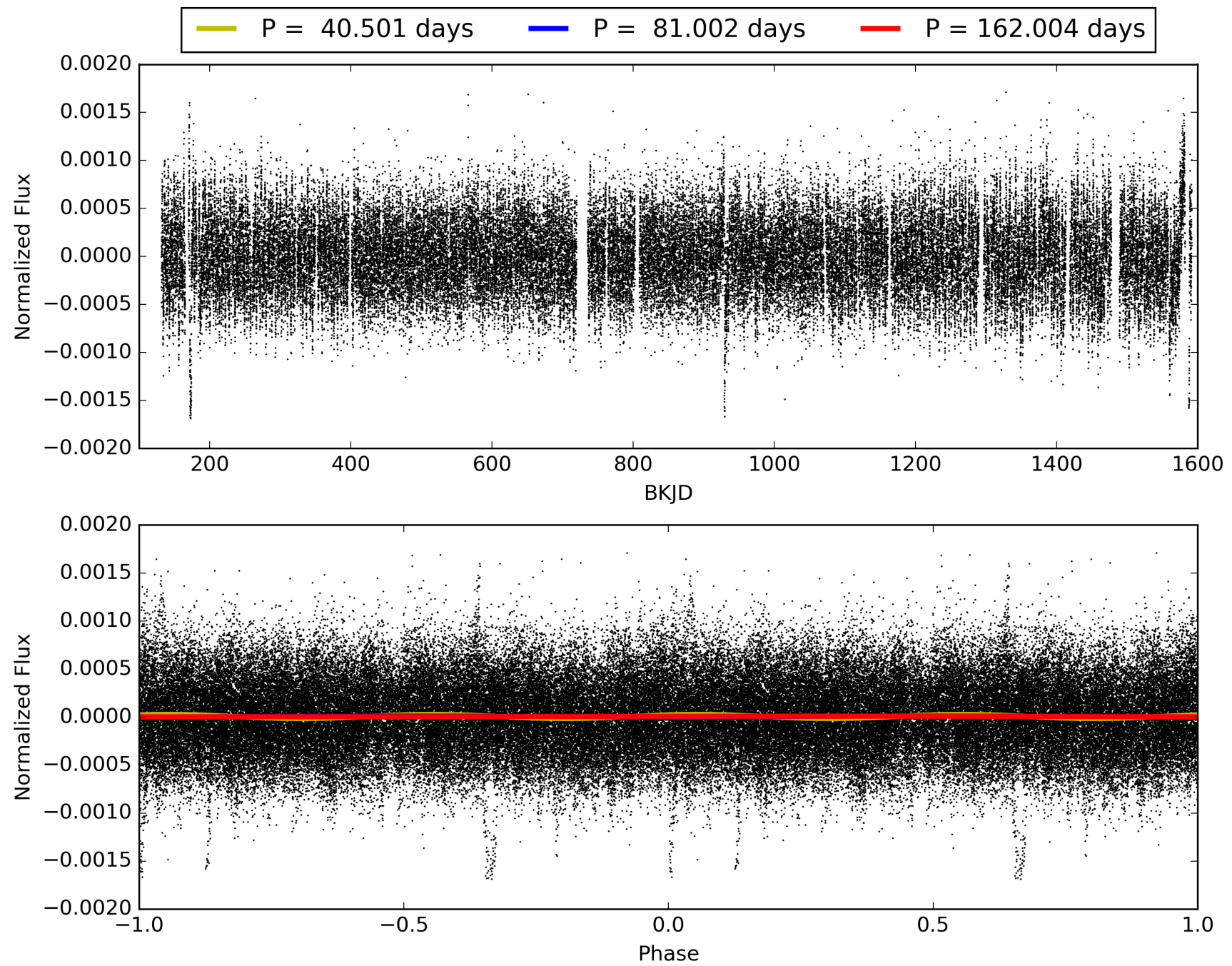
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 11:01:08 Z

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

TCE 005392723-03, PDC Light Curves

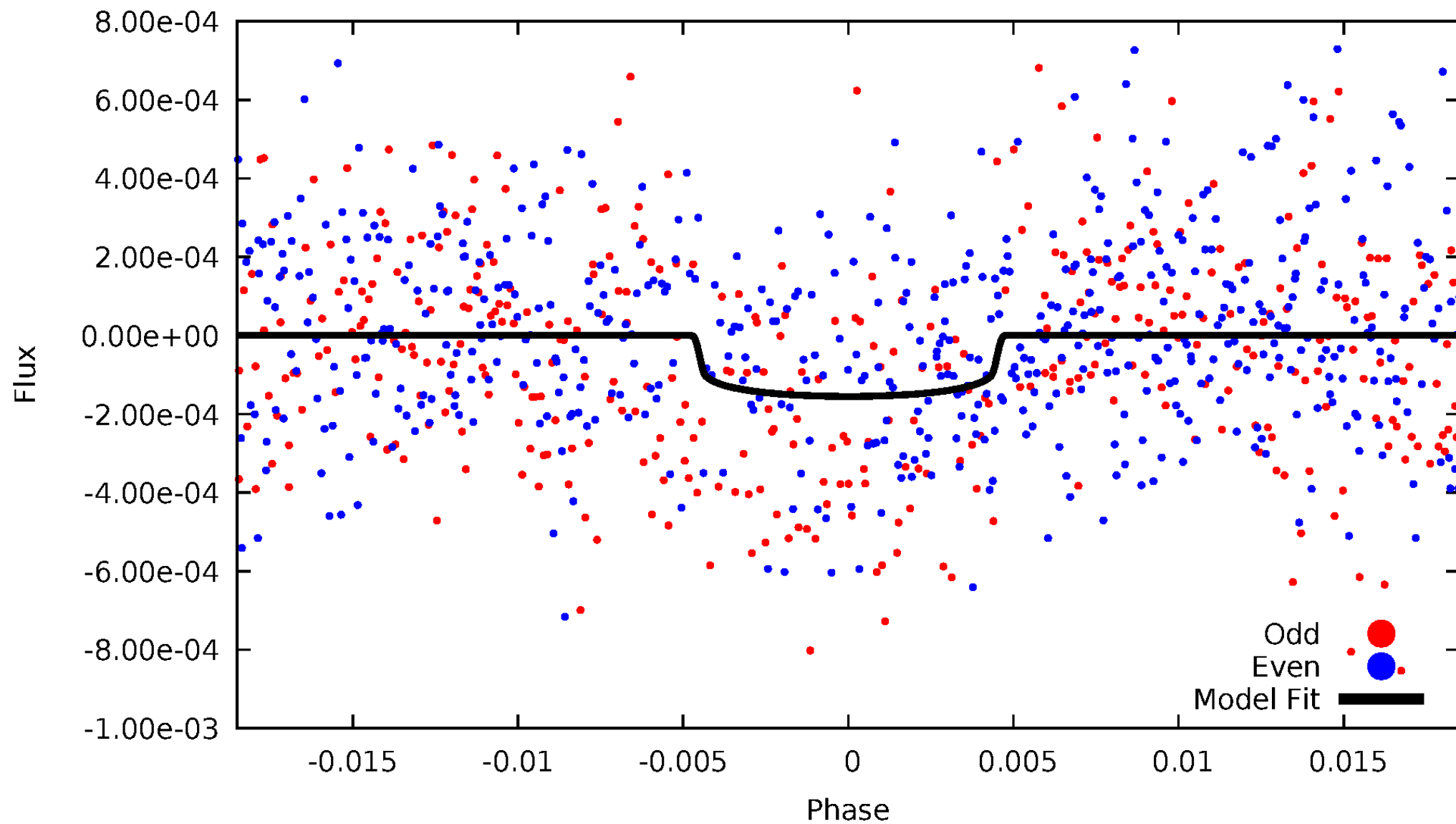


TCE 005392723-03



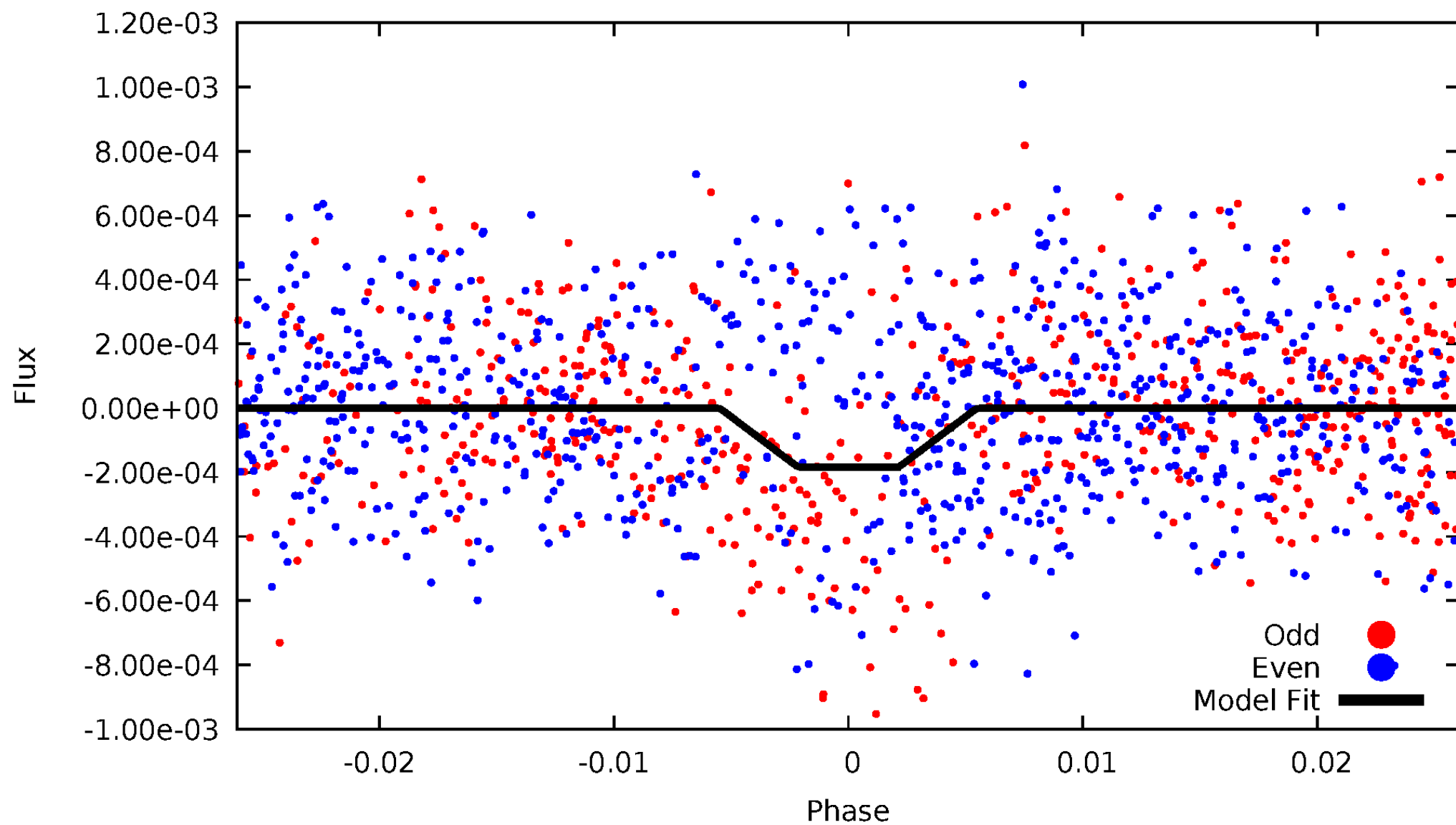
DV Odd/Even

TCE 005392723-03



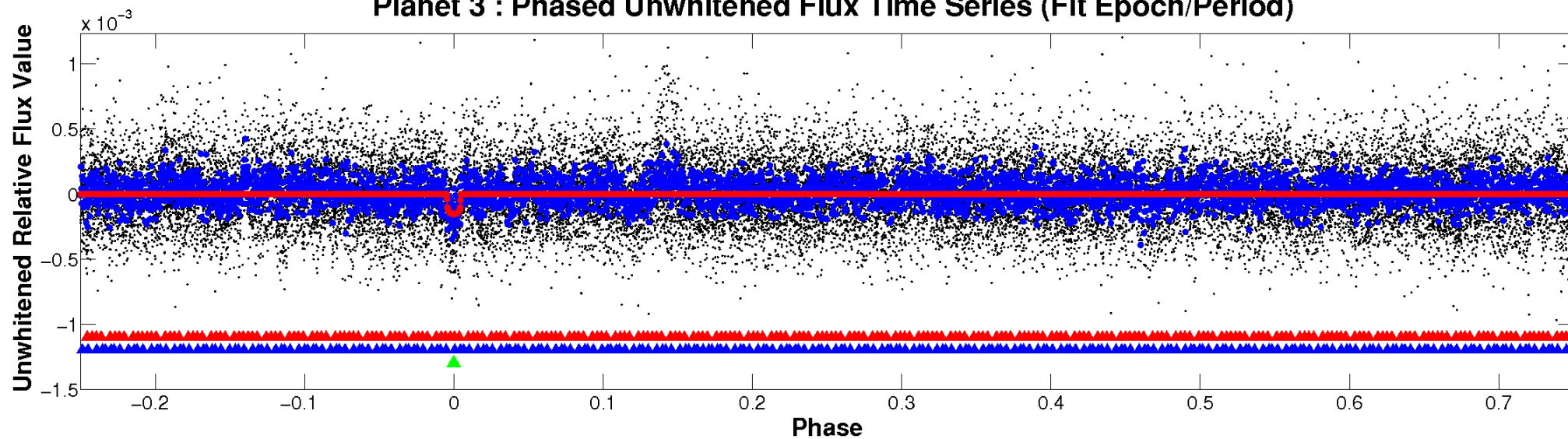
ALT Odd/Even

TCE 005392723-03

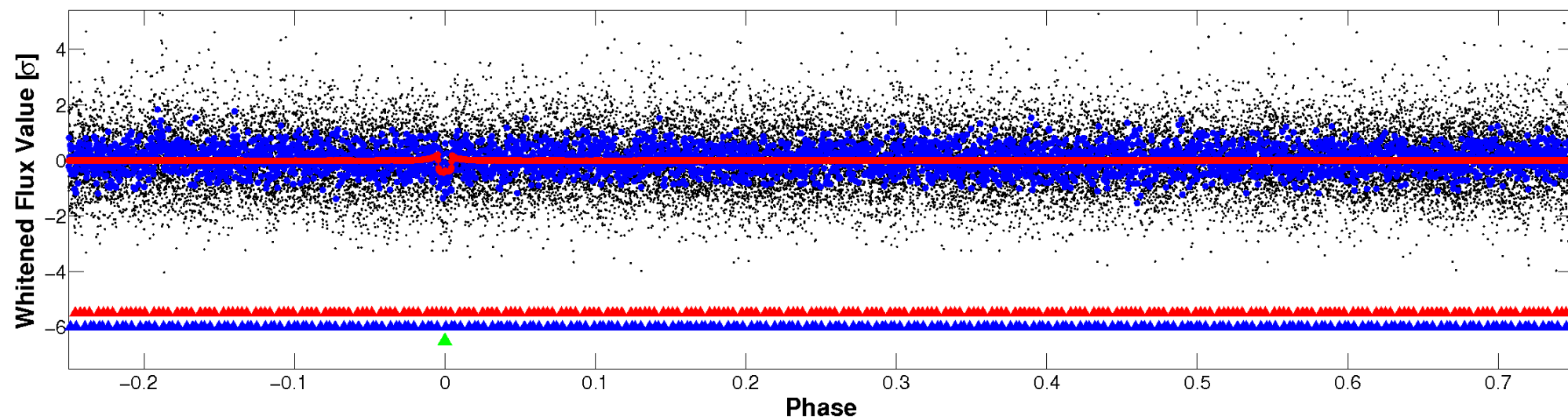


Non-Whitened Vs. Whitened Light Curve

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

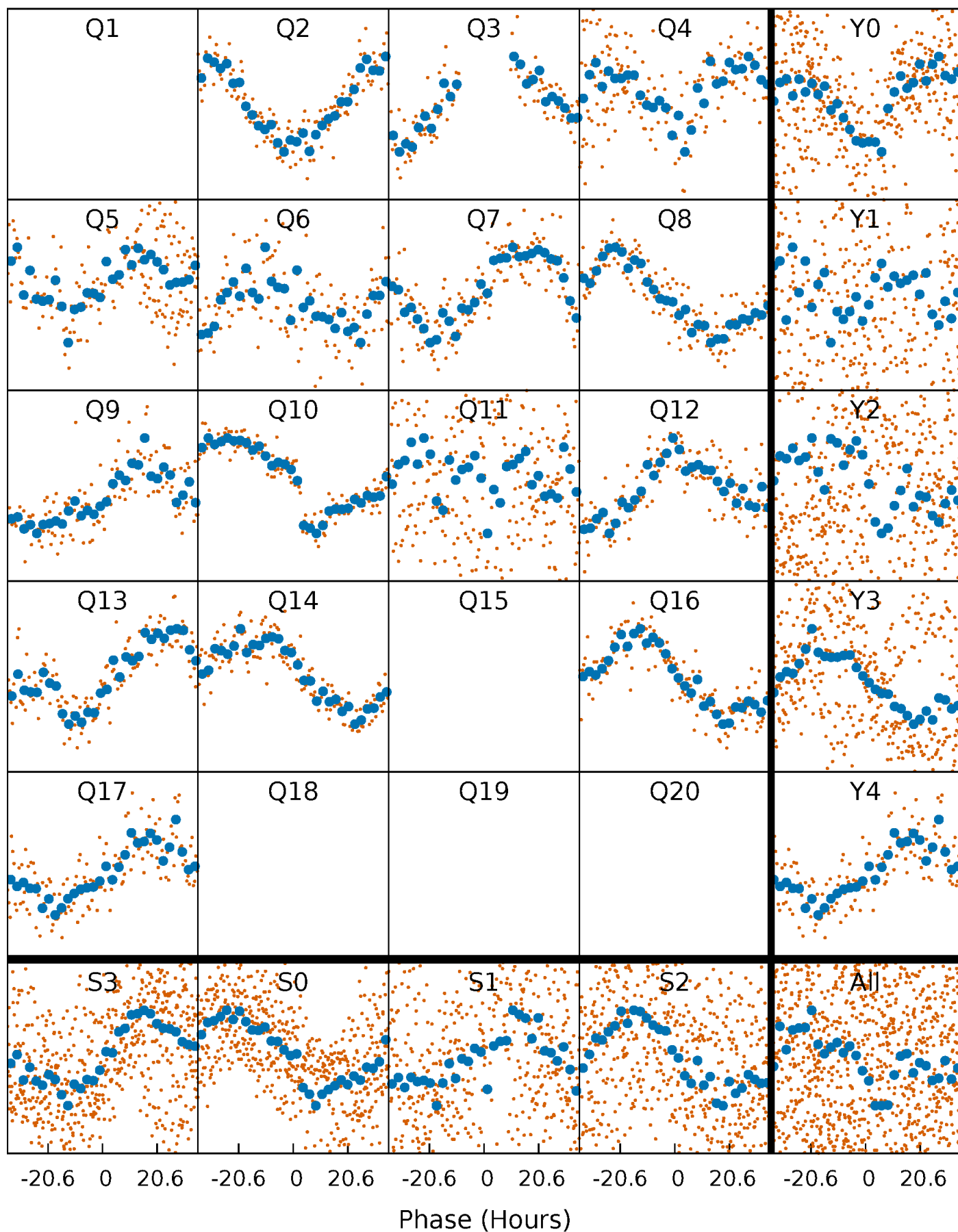


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



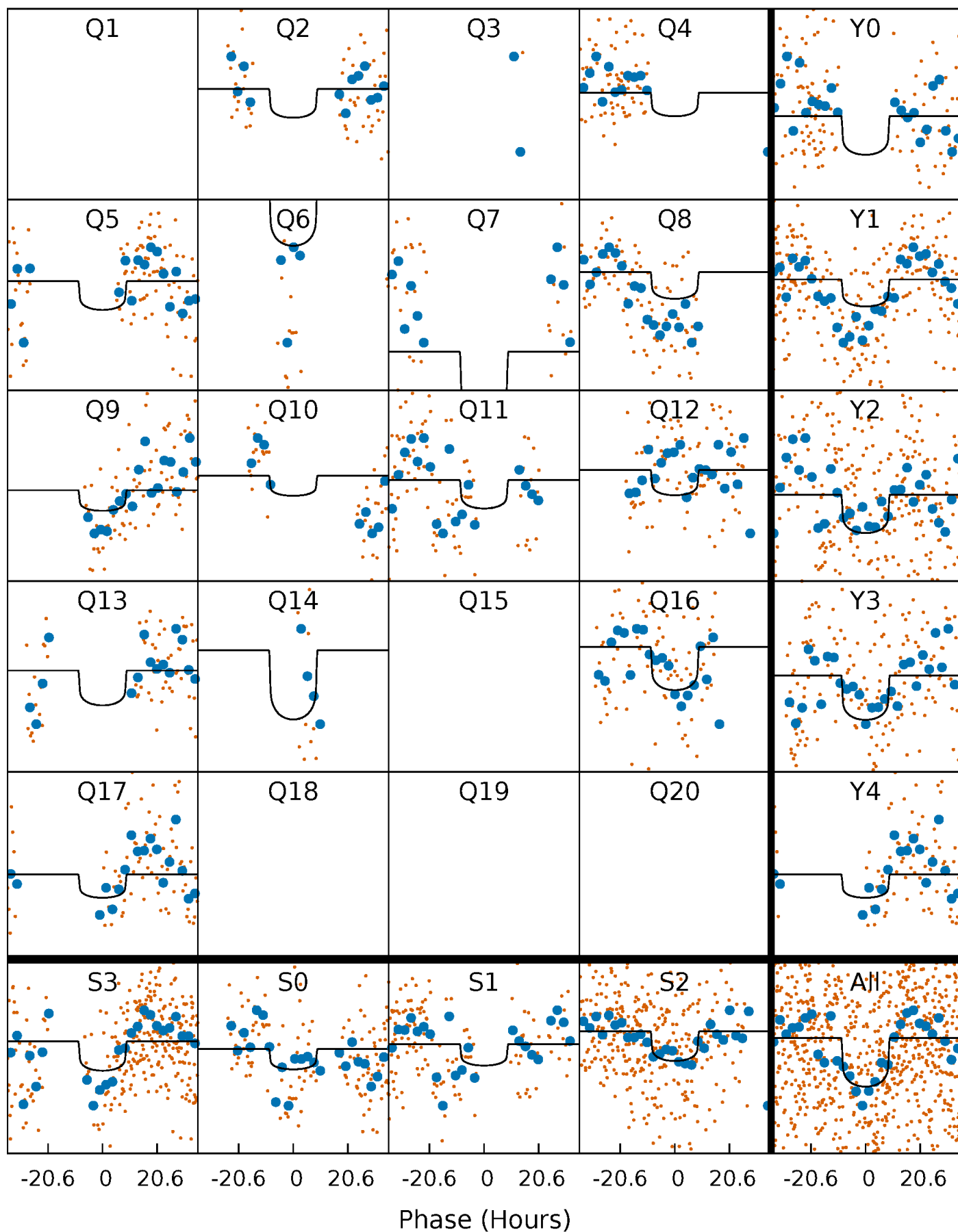
PDC Quarter-Phased Transit Curves

TCE 005392723-03 P= 81.002092 Days $T_0=199.929686$ (BKJD)



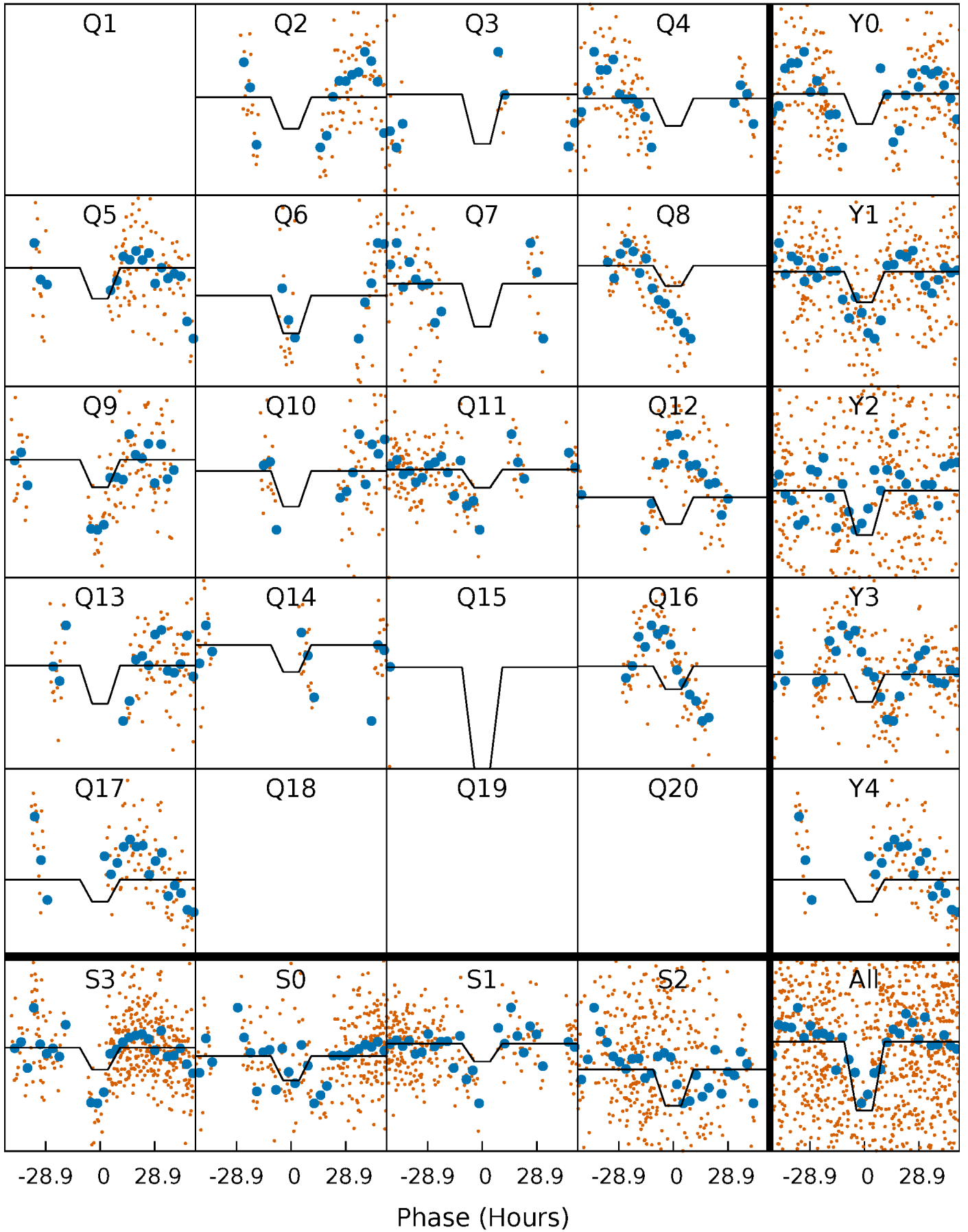
DV Quarter-Phased Transit Curves

TCE 005392723-03 P= 81.002092 Days $T_0=199.929686$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

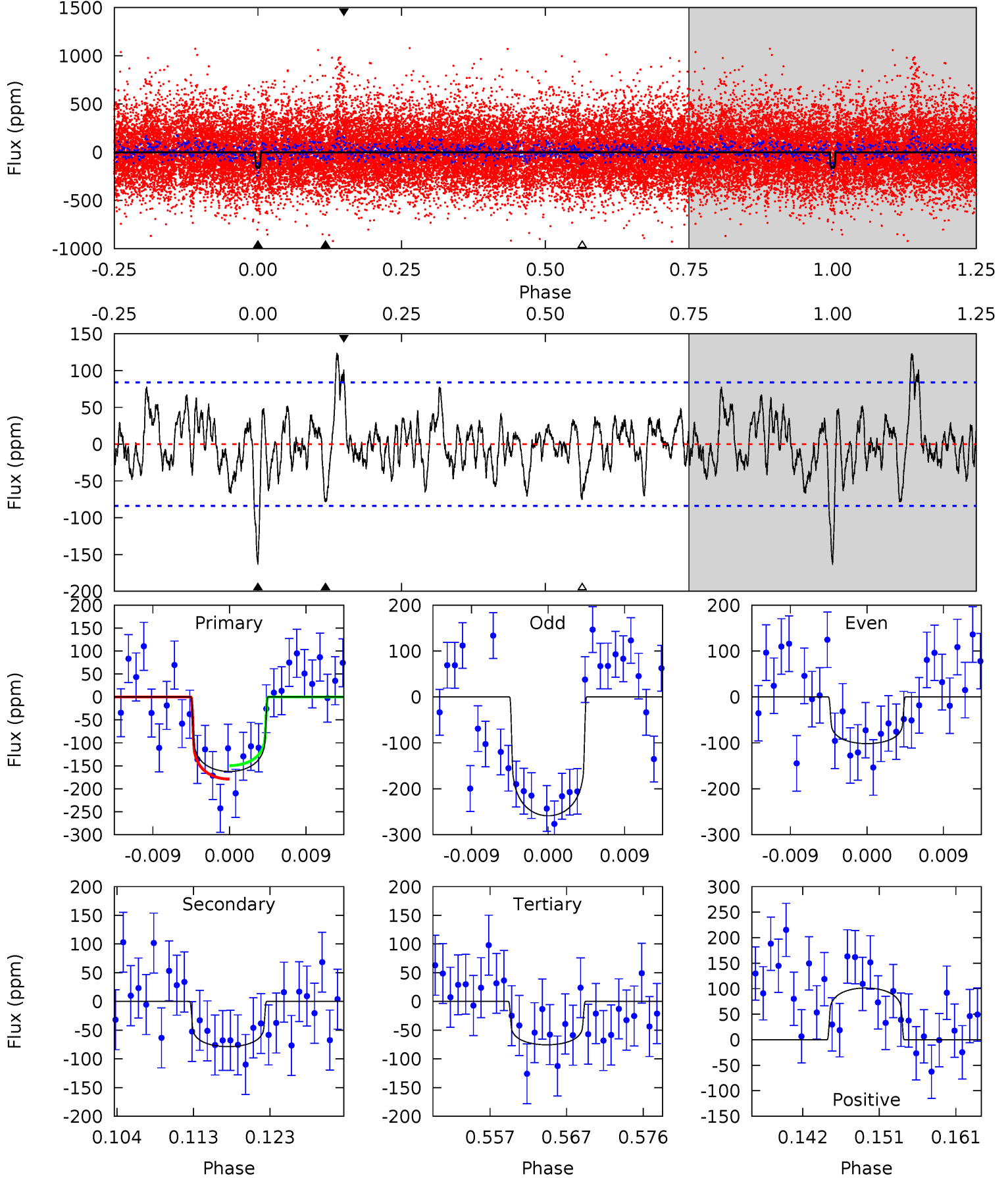
TCE 005392723-03 P= 80.988405 Days $T_0=200.020016$ (BKJD)



DV Model-Shift Uniqueness Test

005392723-03, P = 81.002092 Days, E = 118.927594 Days

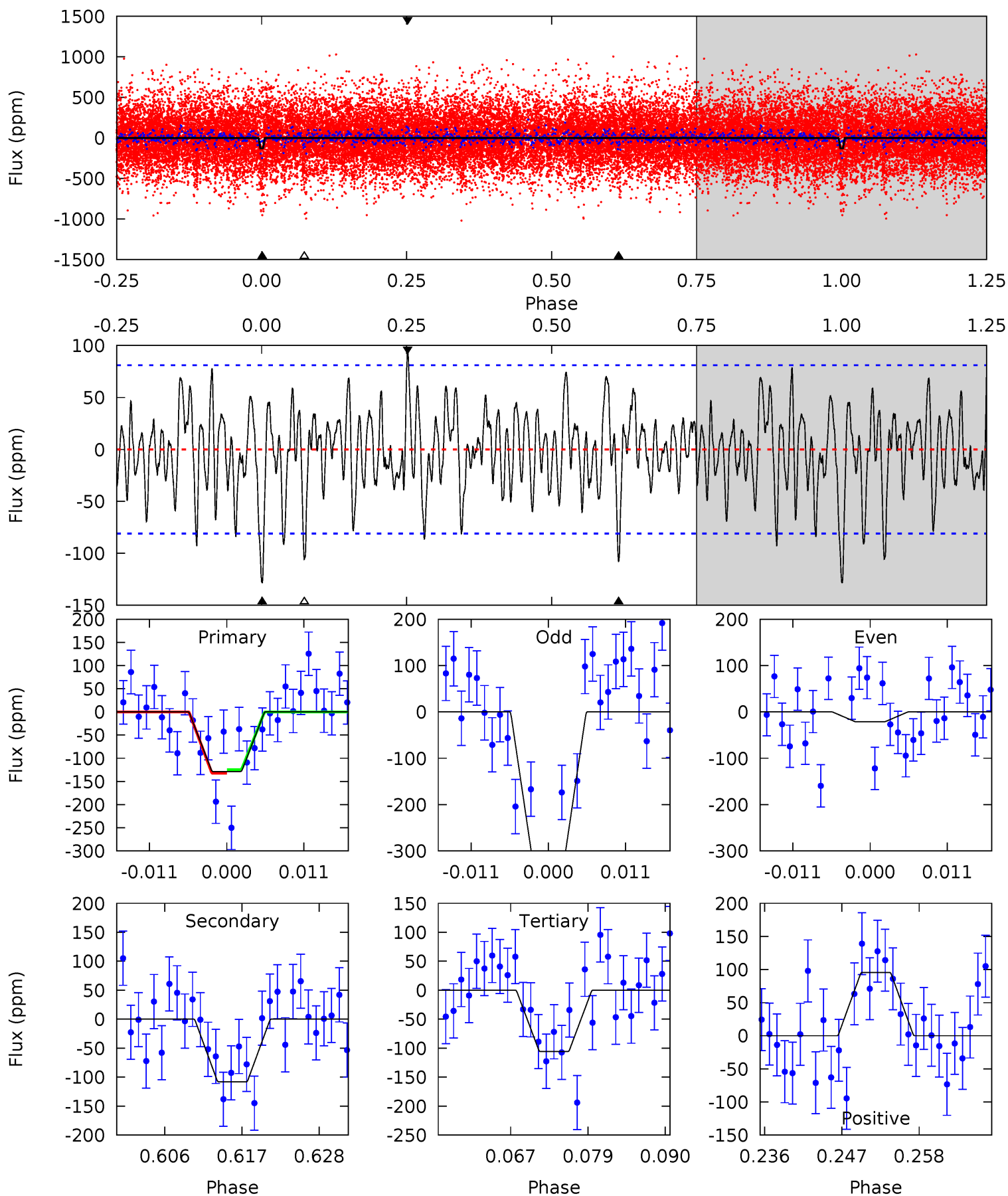
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.73	4.72	4.52	6.07	5.04	2.60	1.81	5.20	3.65	0.19	-1.36	4.60	1.05	0.43	0.87



Alt Model-Shift Uniqueness Test

005392723-03, P = 80.988405 Days, E = 119.031611 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.93	6.68	6.53	5.90	5.00	2.54	2.02	1.40	2.04	0.15	0.78	9.51	1.41	0.43	0.25



Stellar Parameters For KIC 005392723

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6462^{+180}_{-225}	$4.277^{+0.214}_{-0.175}$	$-0.980^{+0.300}_{-0.300}$	$1.113^{+0.257}_{-0.257}$	$0.856^{+0.104}_{-0.061}$	$0.875^{+0.959}_{-0.395}$
	+3%/-3%	+5%/-4%	+31%/-31%	+23%/-23%	+12%/-7%	+110%/-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 005392723-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-79 ± 17	$1.51^{+0.88}_{-0.78}$	710^{+54}_{-54}	5381^{+2597}_{-906}	2243^{+7710}_{-1350}
Alt.	-108 ± 16	$1.61^{+0.84}_{-0.74}$	710^{+49}_{-55}	5657^{+2168}_{-877}	2760^{+6609}_{-1591}

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

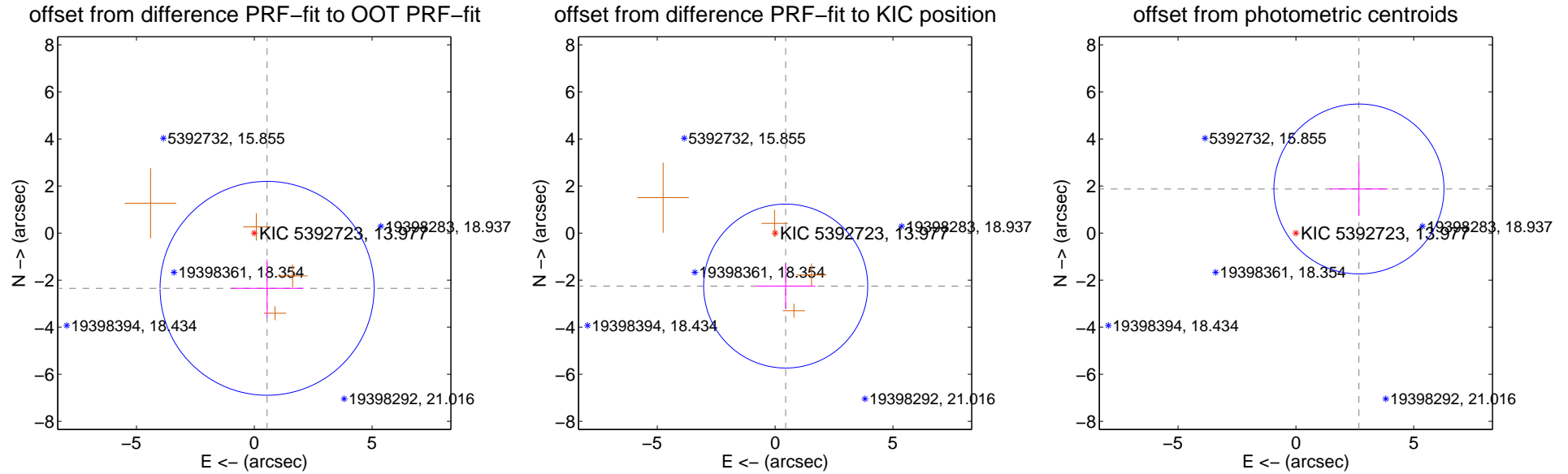
DV Centroid Data

Supplemental centroid analysis for 005392723-03. Kepler magnitude: 13.98. Transit SNR 5.71

There are 0 quarters with good PRF difference image offsets

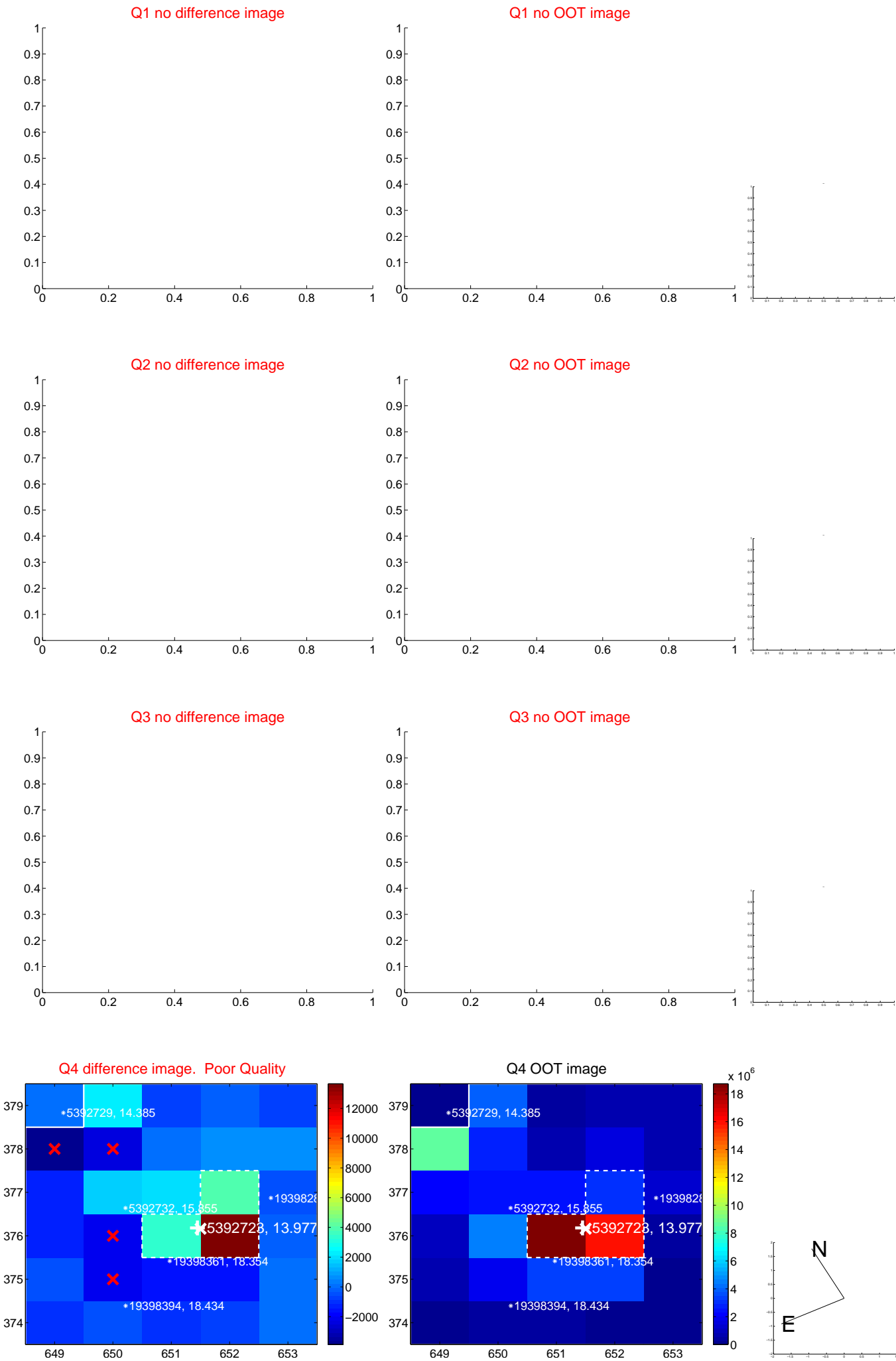
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.410 ± 1.515	1.59	-0.544 ± 1.524	-2.348 ± 1.227
PRF-fit source offset from KIC position	2.296 ± 1.161	1.98	-0.450 ± 1.258	-2.252 ± 0.970
photometric centroid source offset	3.27 ± 1.20	2.72	-2.68 ± 1.23	1.87 ± 1.14

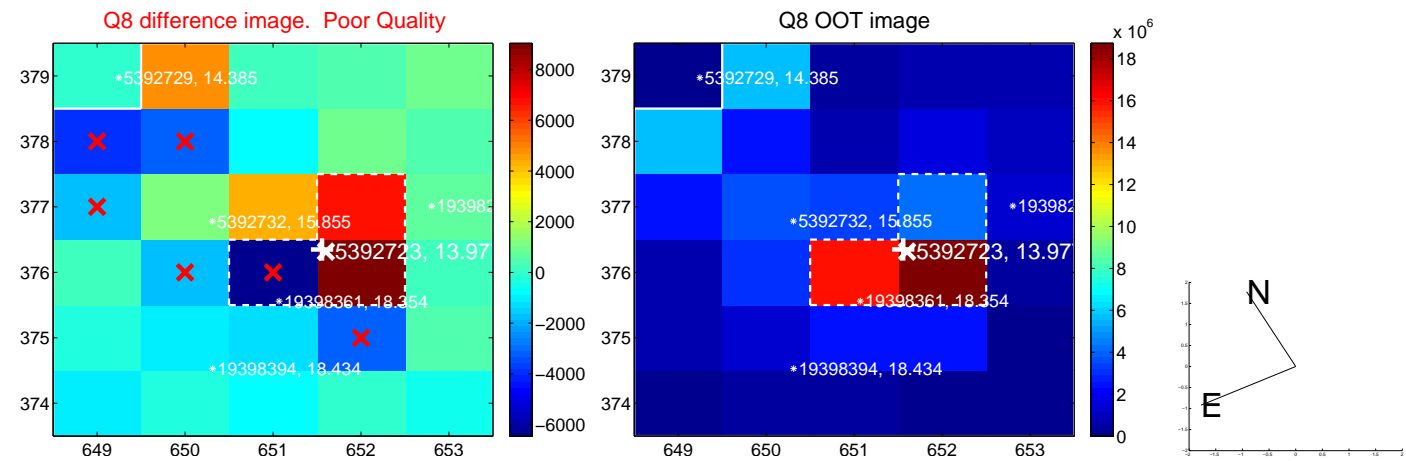
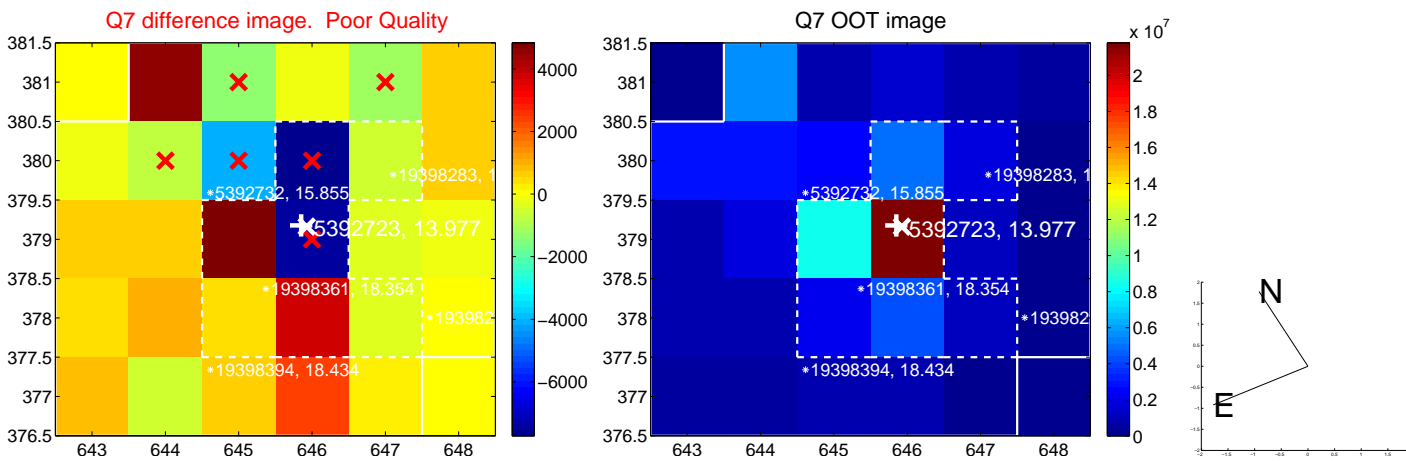
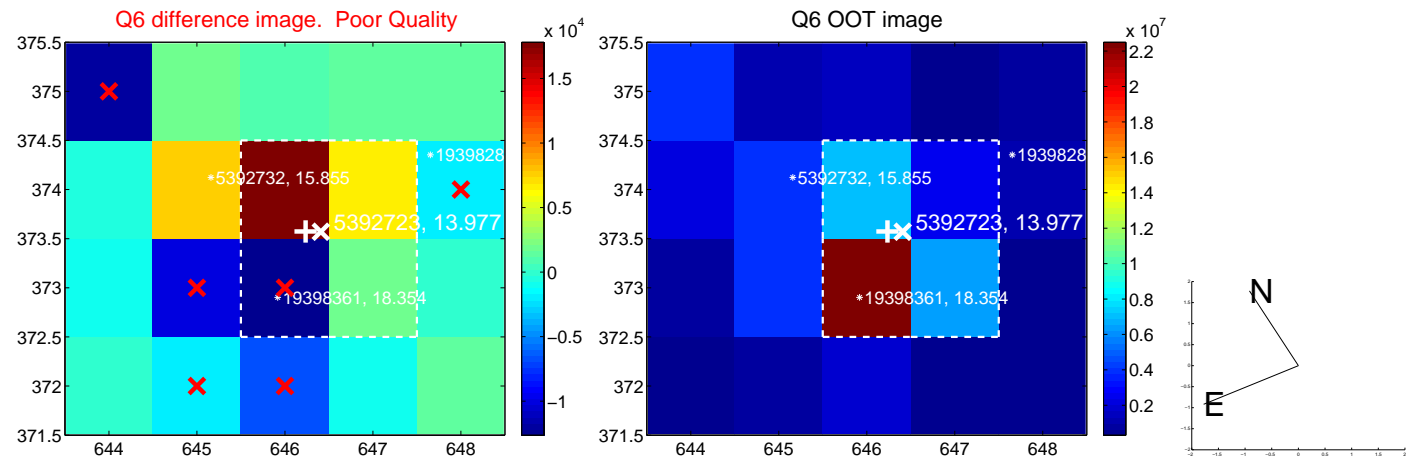
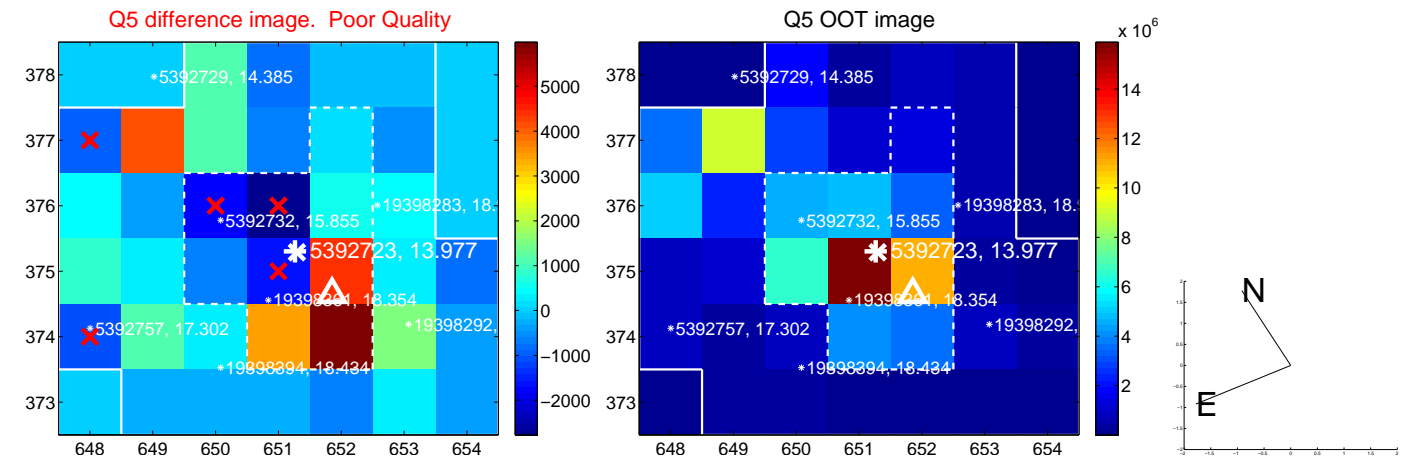


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

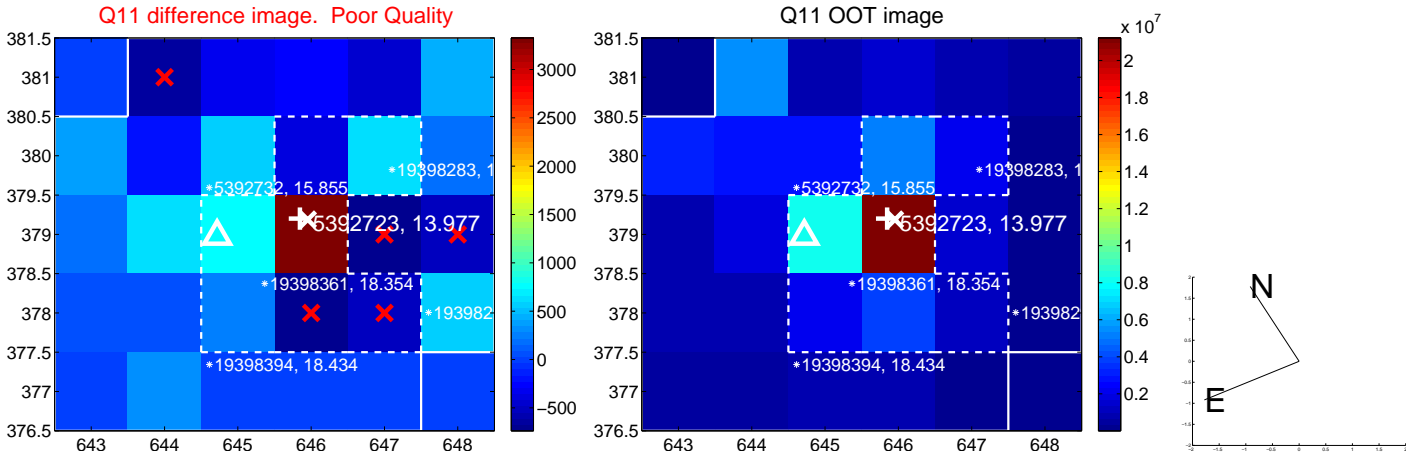
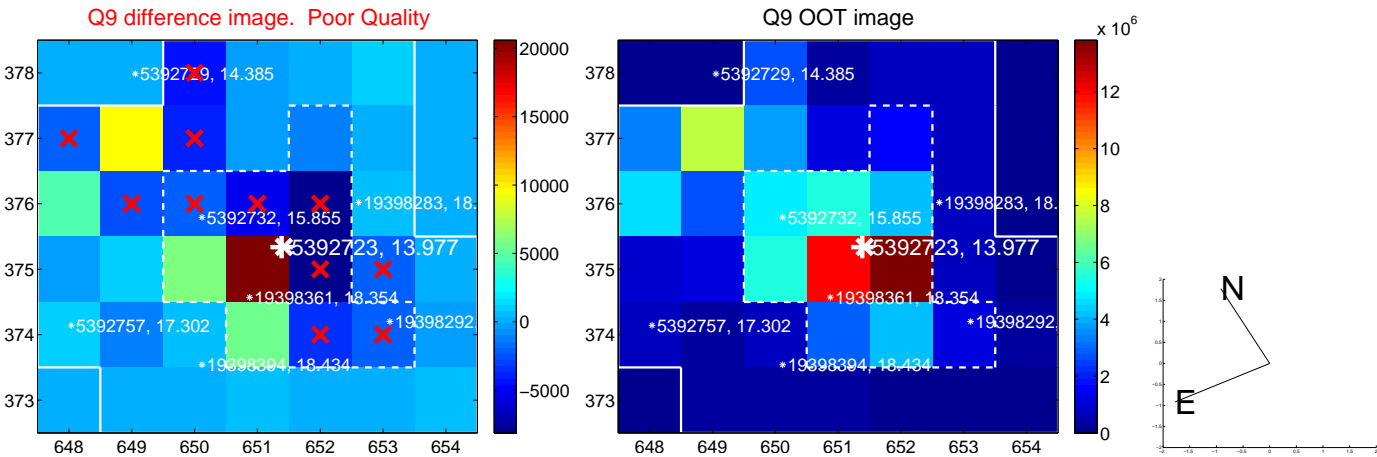
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



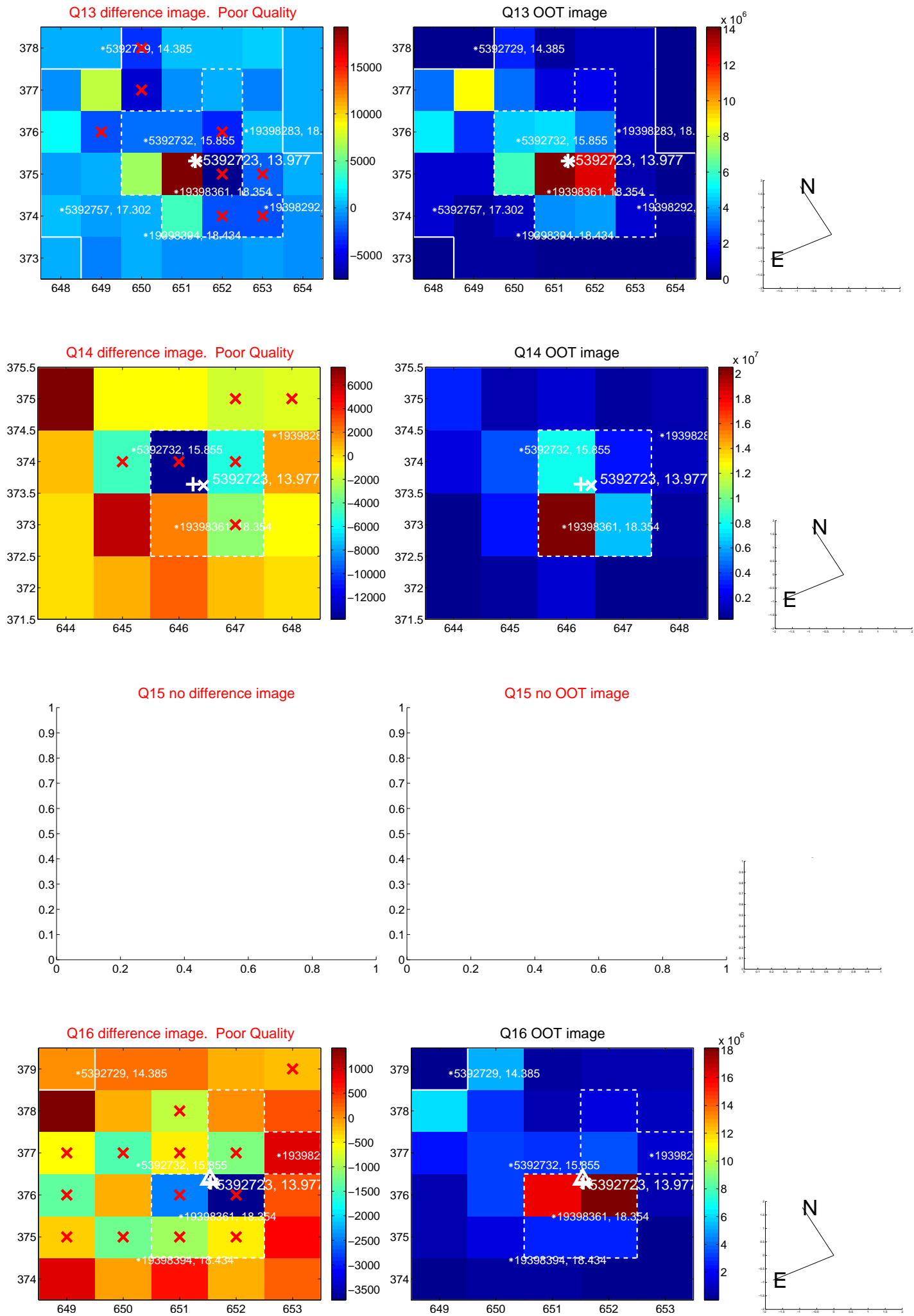
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



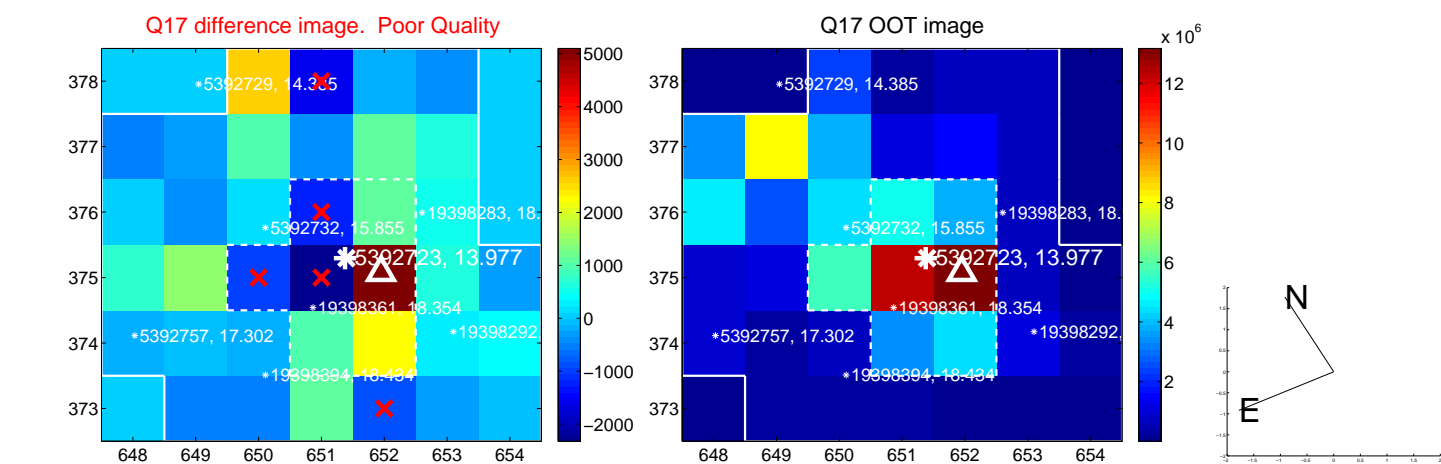
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



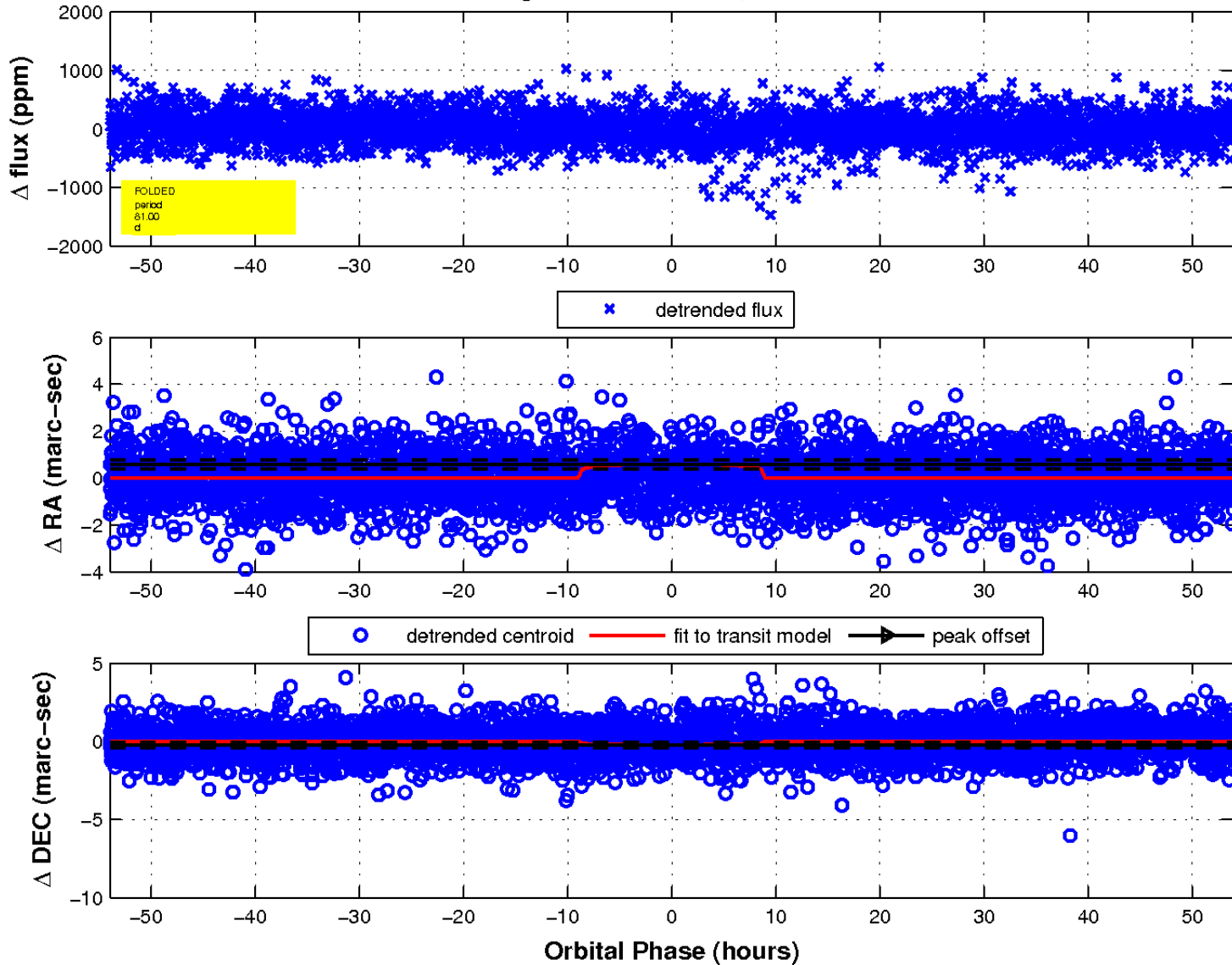
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

