

KIC 005894044

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})
005894044-01	OBS	No	0.715134	132.228507	6.9	4.342	10.4	3.4	4.83	6748	1.28	0.00
005894044-02	OBS	No	92.770283	176.774813	472.5	4.523	13.7	10.7	4.83	6748	10.98	169.61
005894044-03	OBS	No	0.715156	131.769425	47.2	1.947	13.3	20.1	4.83	6748	3.35	0.00
005894044-05	OBS	No	9.525038	132.487894	350.6	1.016	10.9	8.5	4.83	6748	10.70	3527.74
005894044-06	OBS	No	8.895671	136.212688	214.9	2.213	8.1	8.8	4.83	6748	7.27	3864.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005894044-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005894044-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_RESOLVED_OFFSET
005894044-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
005894044-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET
005894044-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

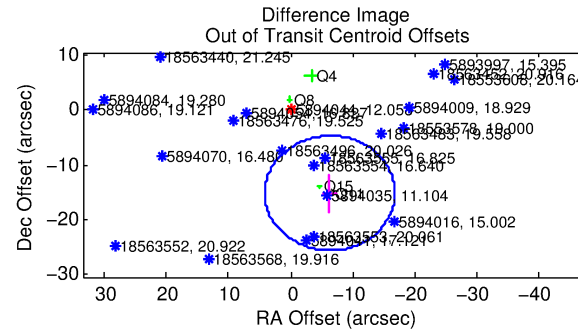
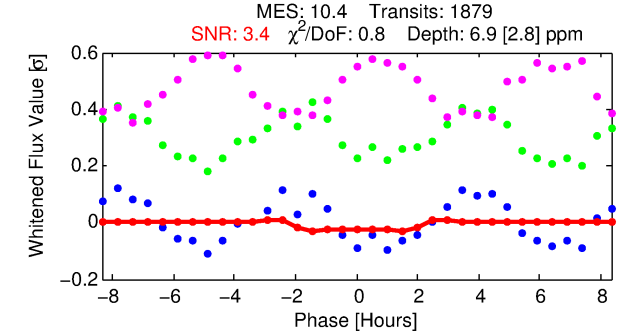
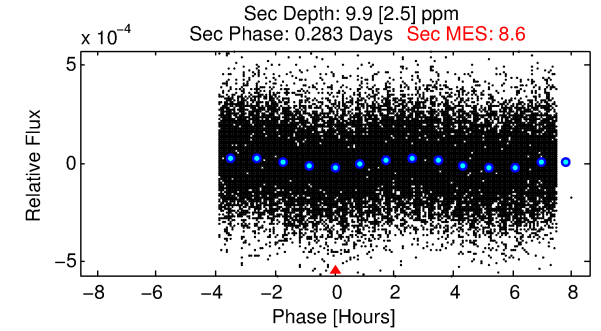
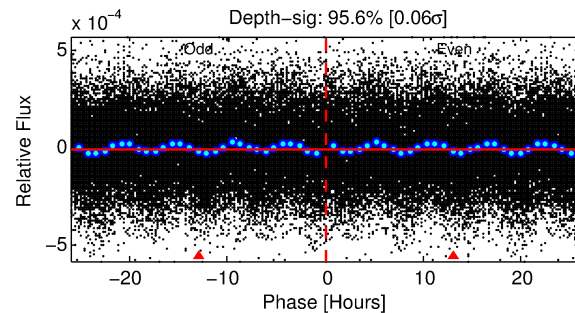
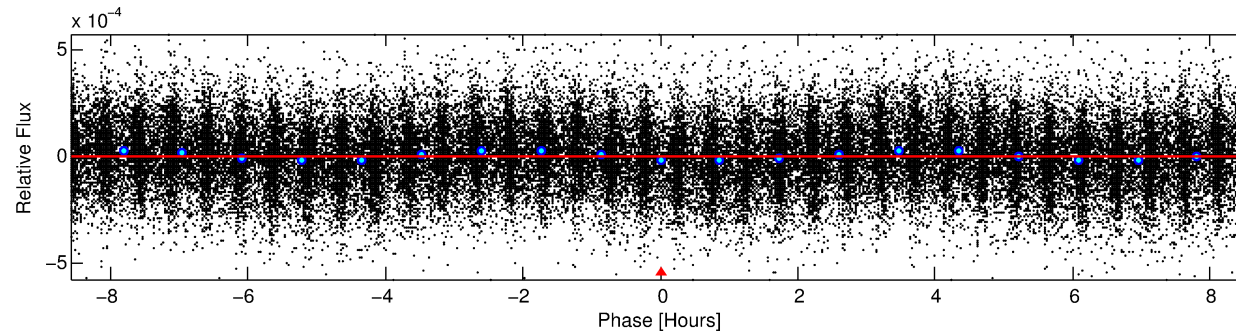
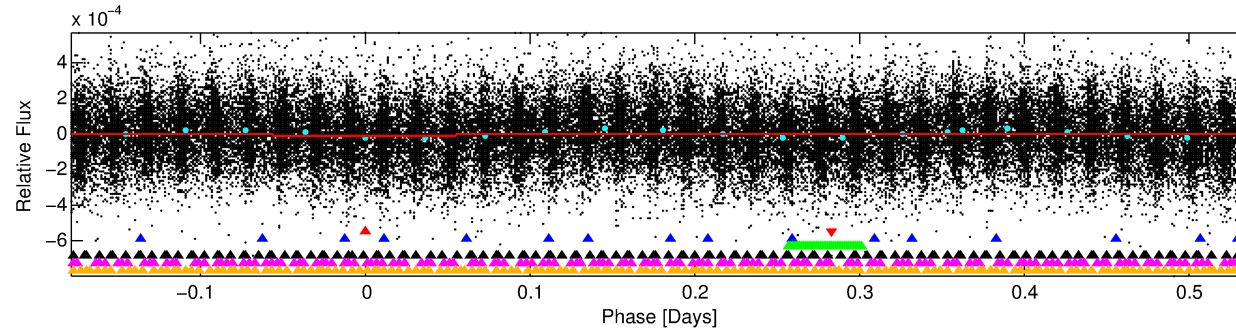
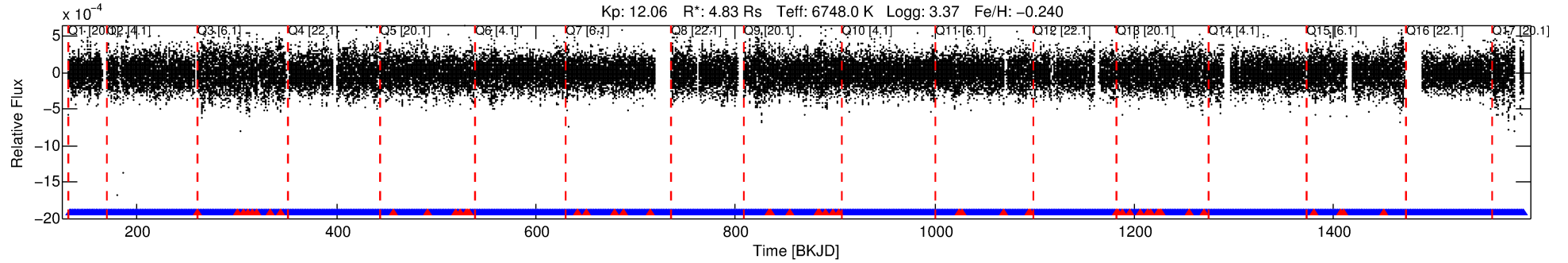
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005894044-01

No Significant Match Found

DV One-Page Summary

KIC: 5894044 Candidate: 1 of 6 Period: 0.715 d



DV Fit Results:

Period = 0.71513 [0.00003] d
Epoch = 132.2285 [0.0067] BKJD
Rp/R* = 0.0024 [0.0035]
a/R* = 1.40 [5.56]
b = 0.06 [145.47]
Seff = N/A
Teq = N/A
Rp = 1.28 [1.94] Re
a = N/A
Ag = N/A
Teffp = N/A

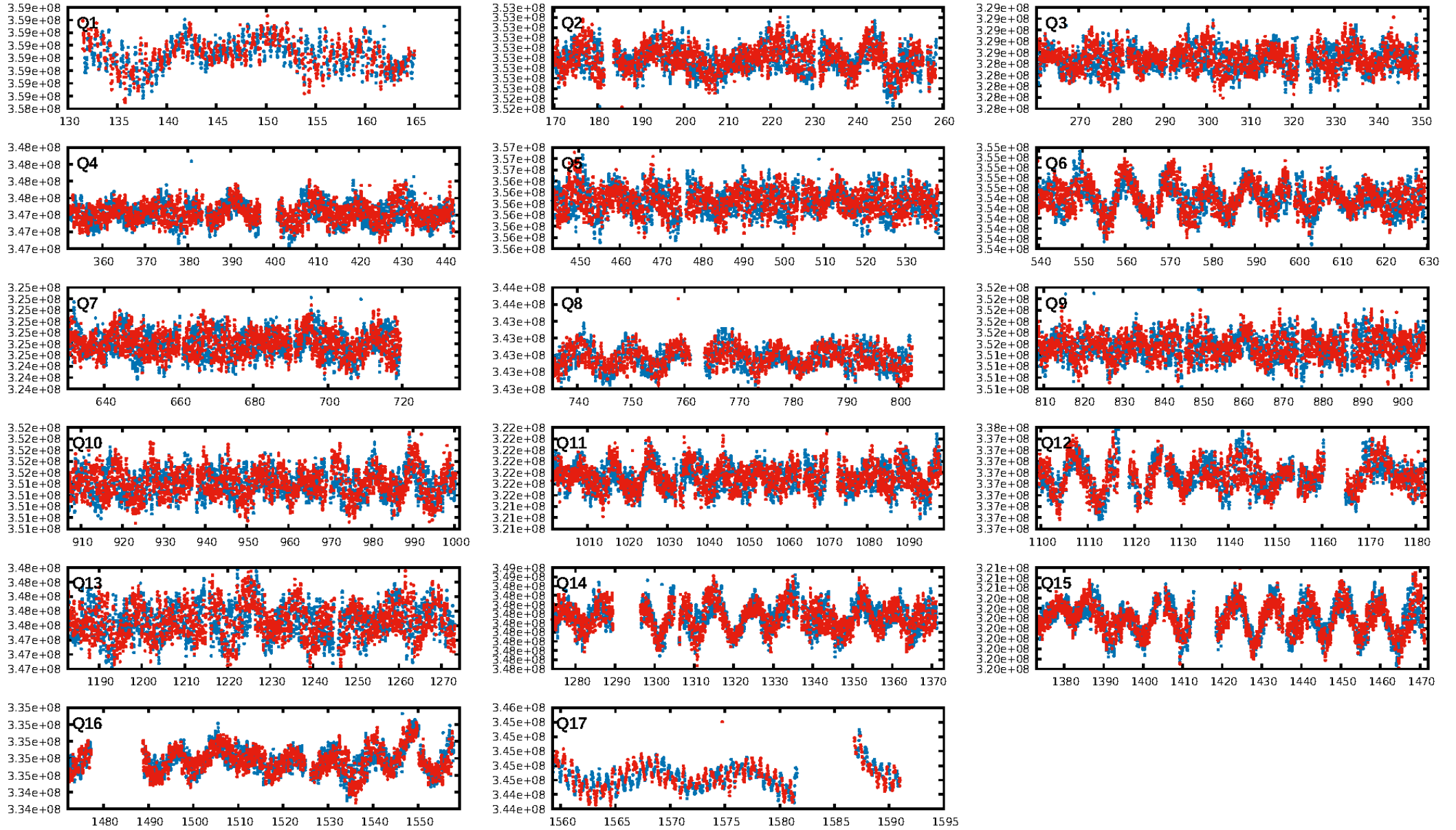
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.88e-12
RollingBand-fgt: 0.97 [1745/1794]
GhostDiagnostic-chr: 1.049
Centroid-sig: N/A
Centroid-so: 6.108 arcsec [2.02 σ]
OotOffset-rm: 16.452 arcsec [4.71 σ]
KicOffset-rm: 16.385 arcsec [3.46 σ]
OotOffset-st: 0/2/2/0 [4]
KicOffset-st: 0/2/2/0 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 0.00 [0/17]

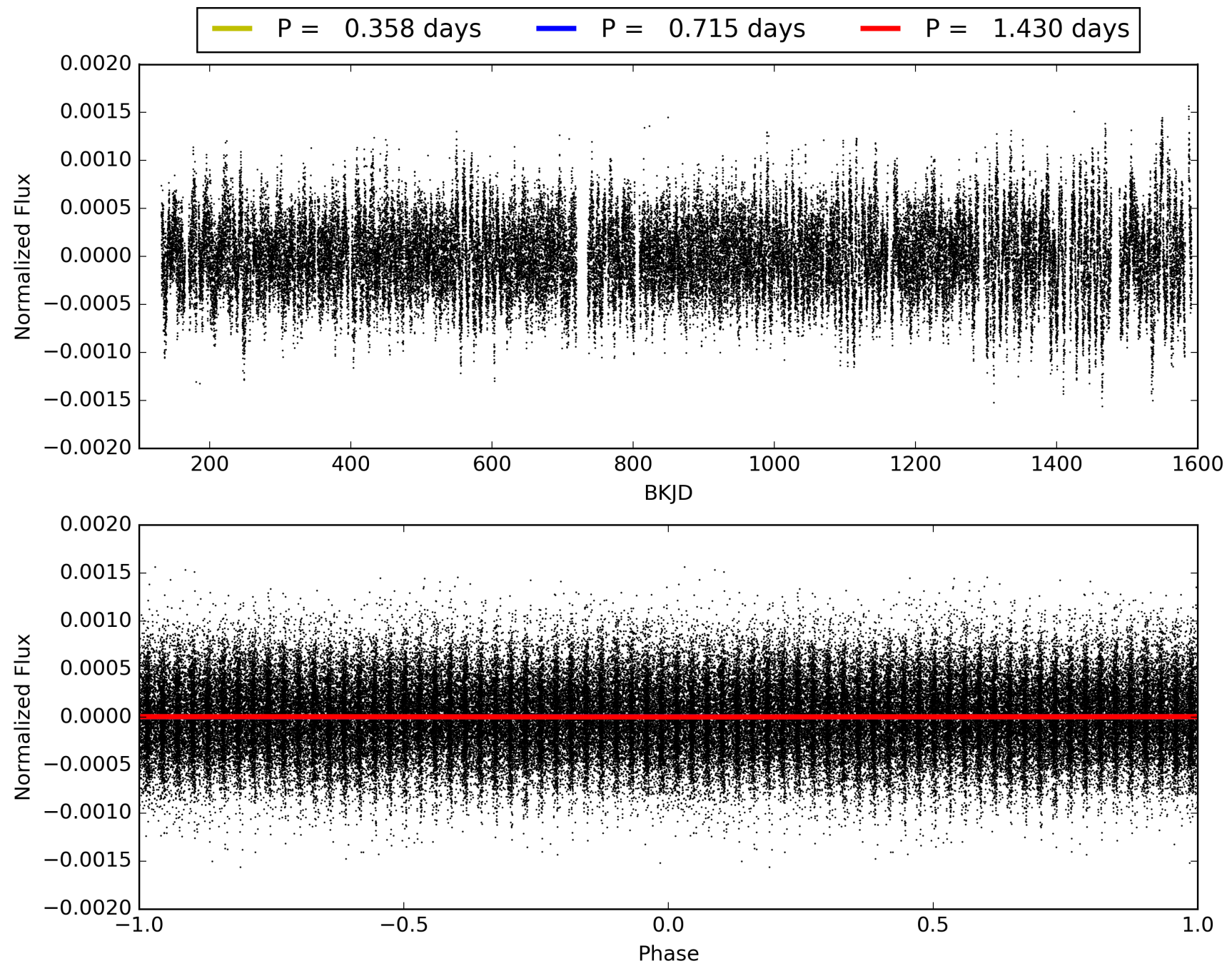
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005894044-01, PDC Light Curves

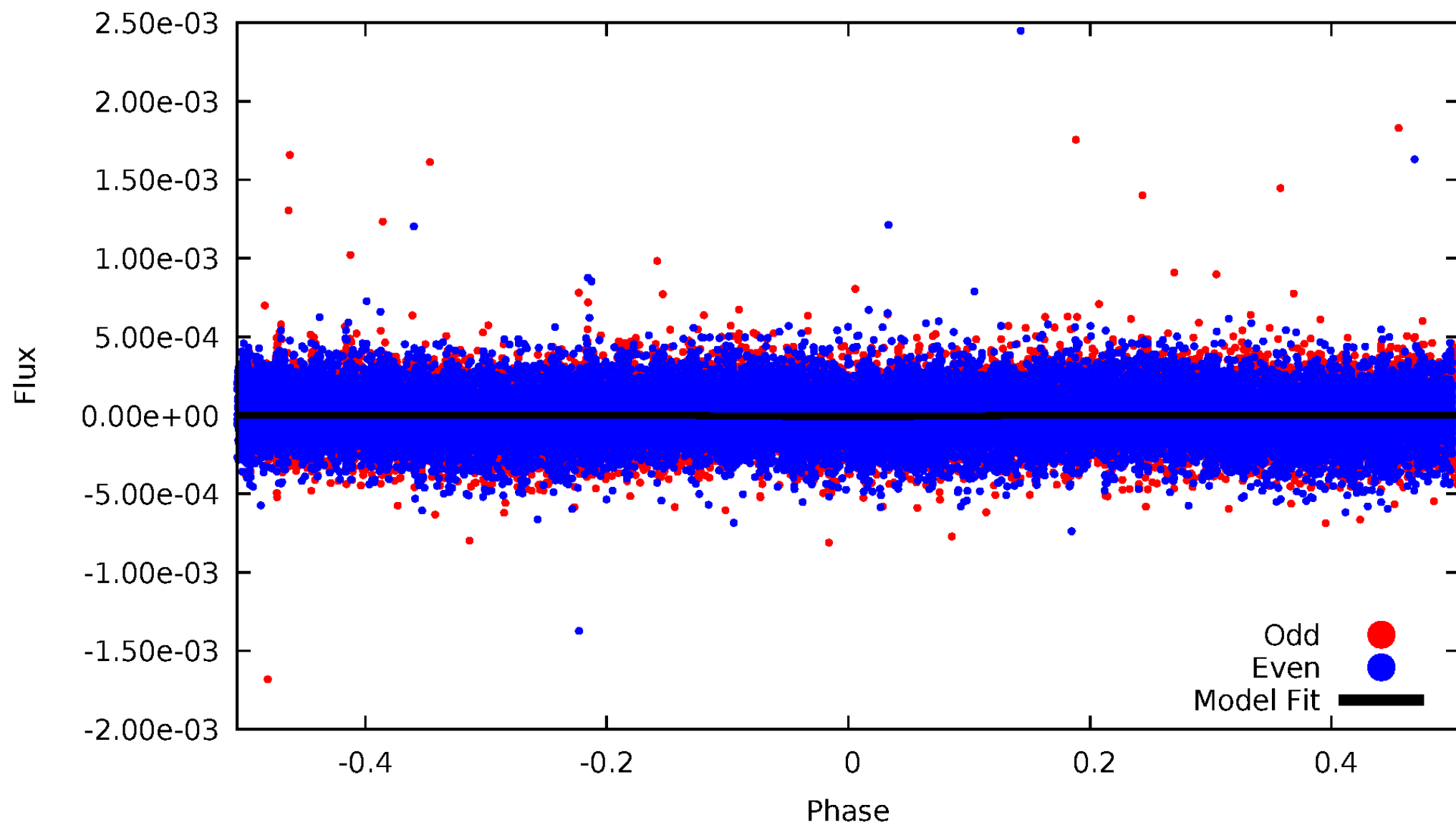


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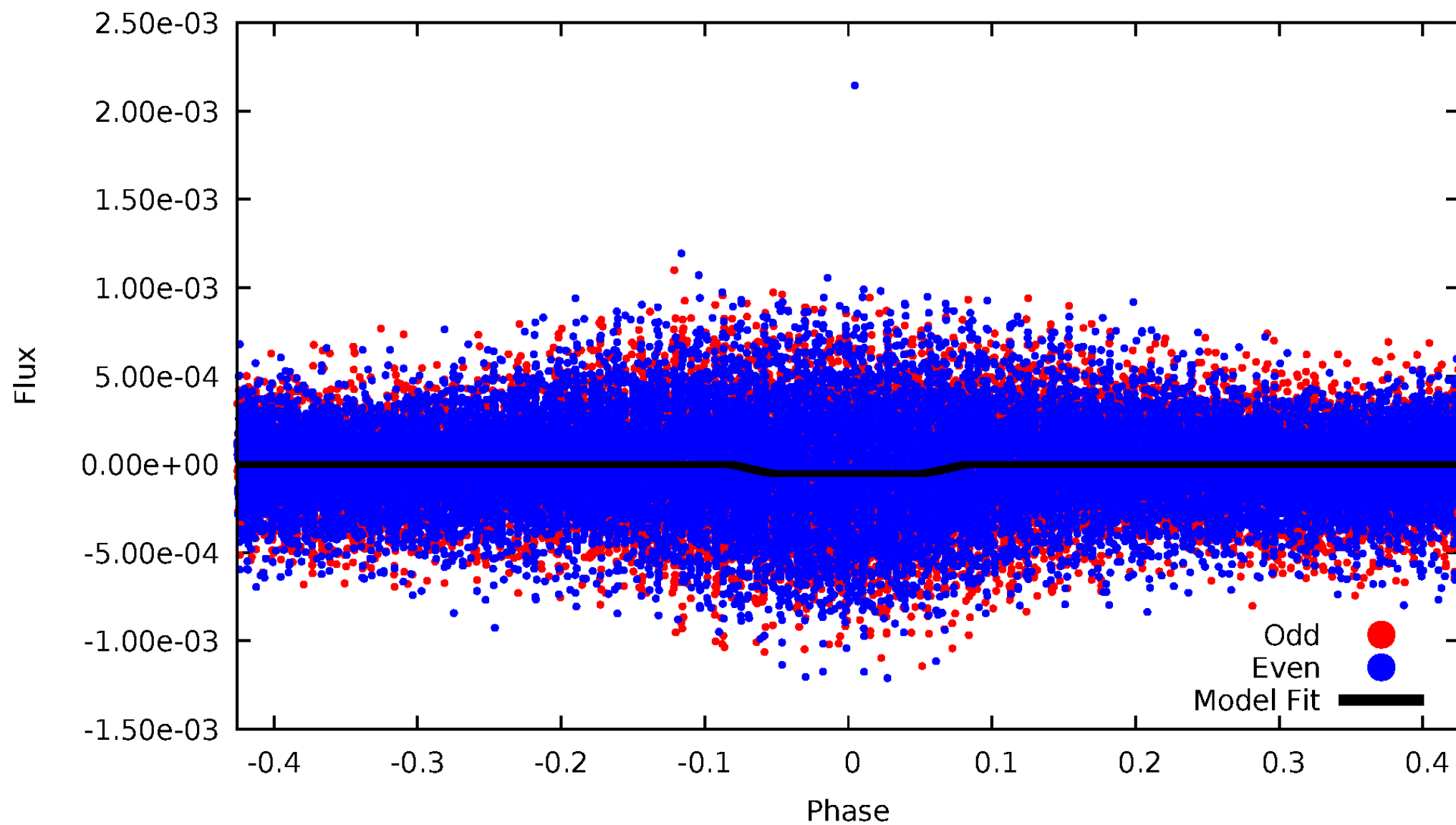
DV Odd/Even

TCE 005894044-01

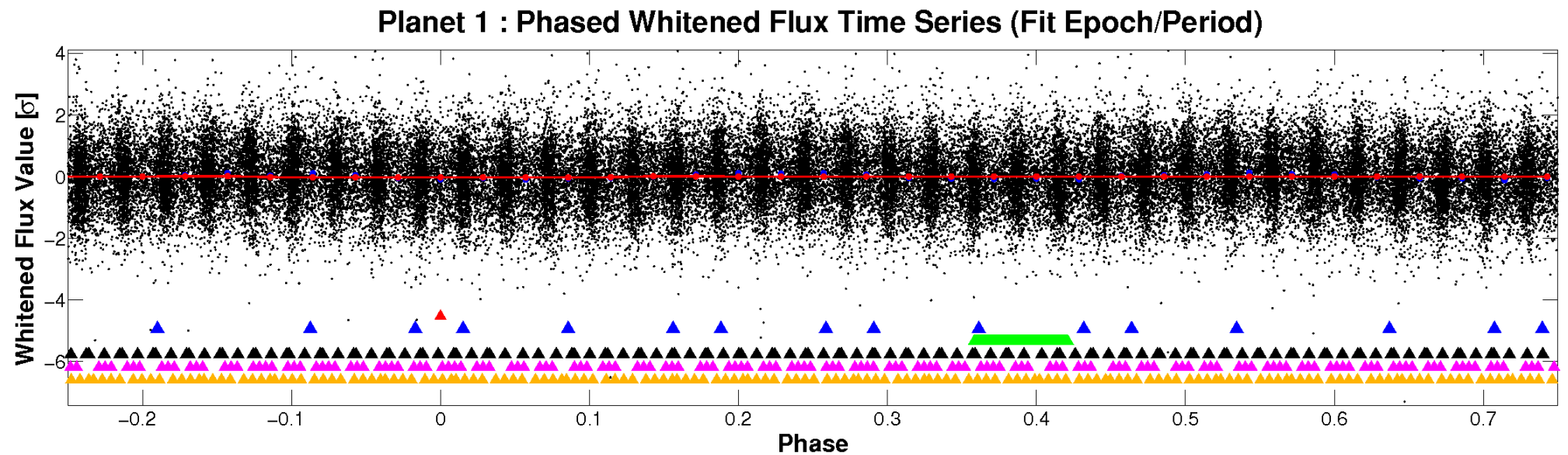
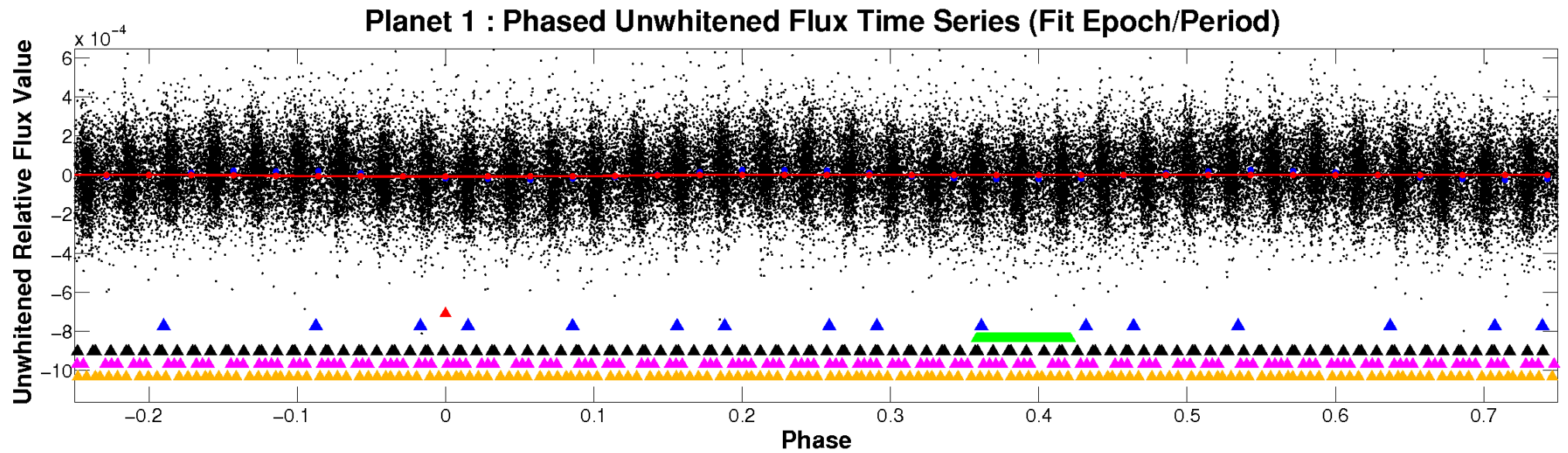


ALT Odd/Even

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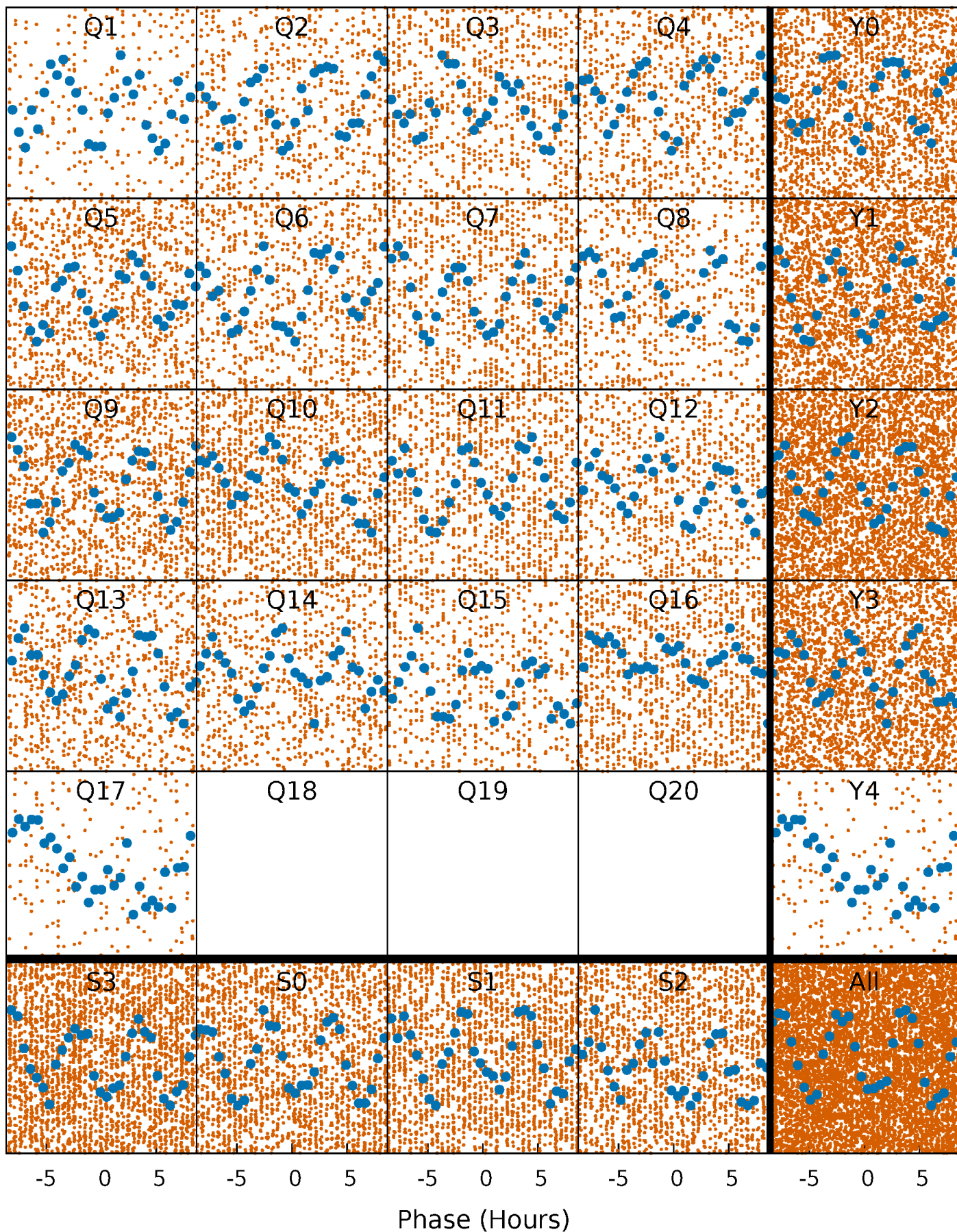


Non-Whitened Vs. Whitened Light Curve



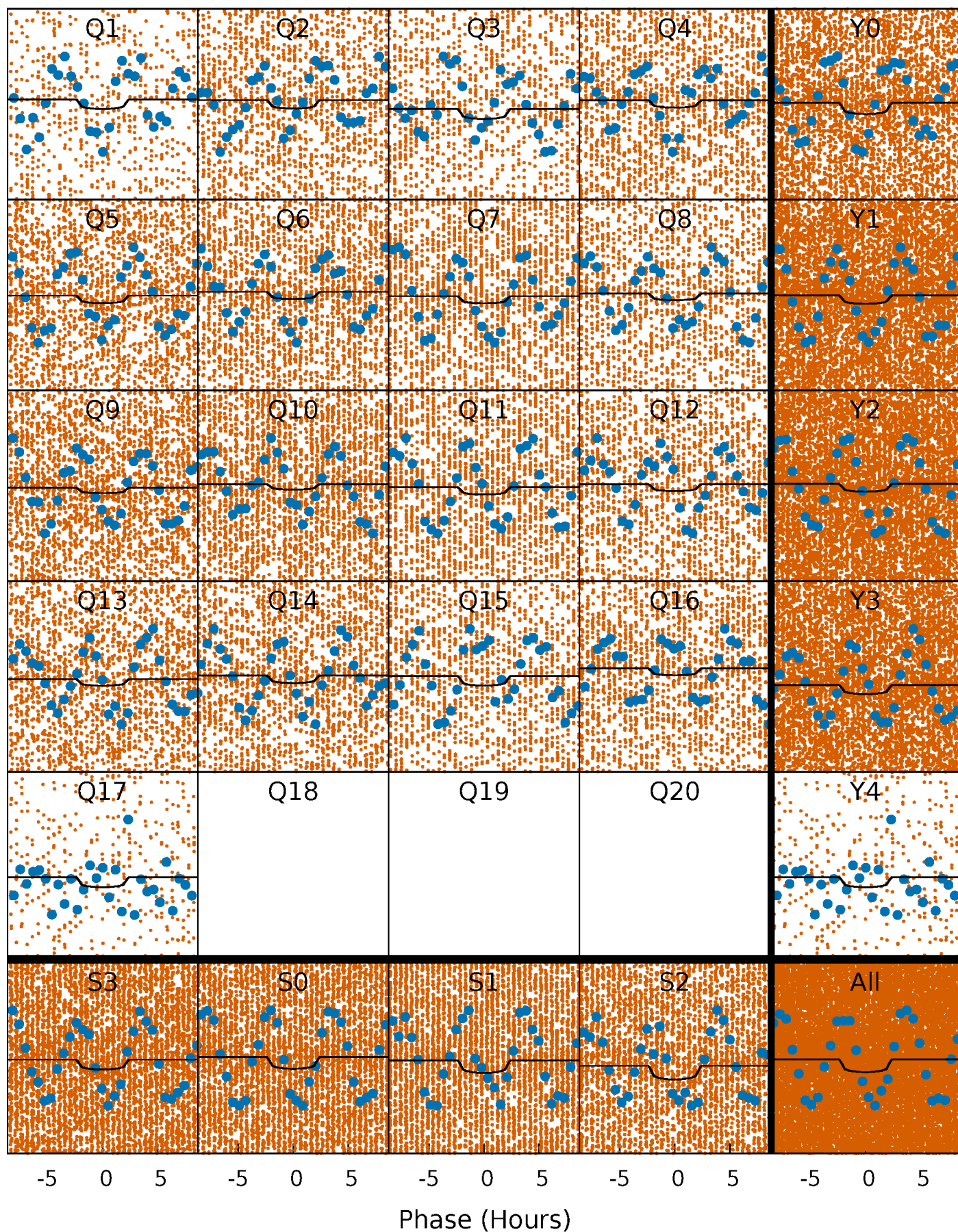
PDC Quarter-Phased Transit Curves

TCE 005894044-01 P= 0.715134 Days $T_0=132.228507$ (BKJD)



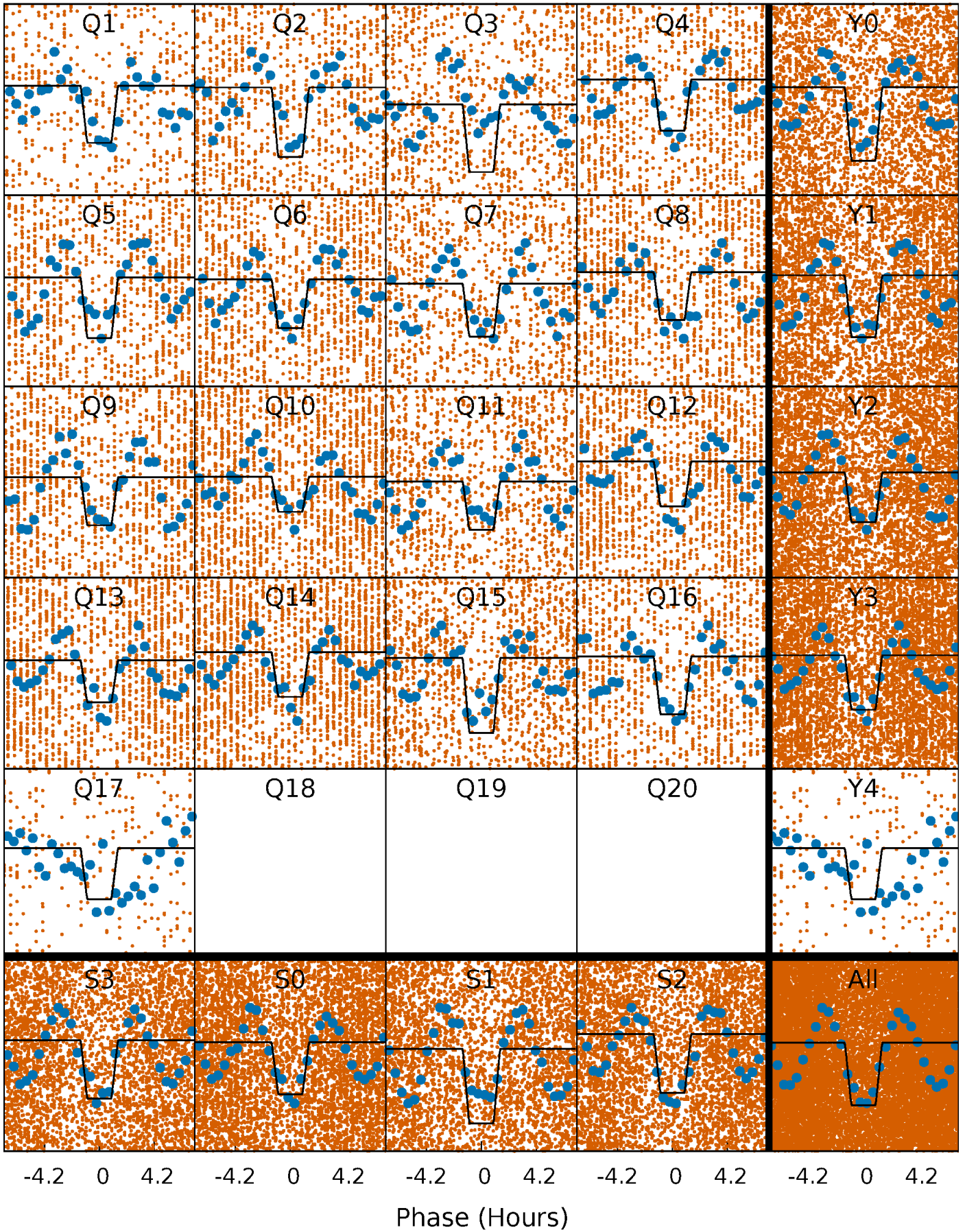
DV Quarter-Phased Transit Curves

TCE 005894044-01 P= 0.715134 Days $T_0=132.228507$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

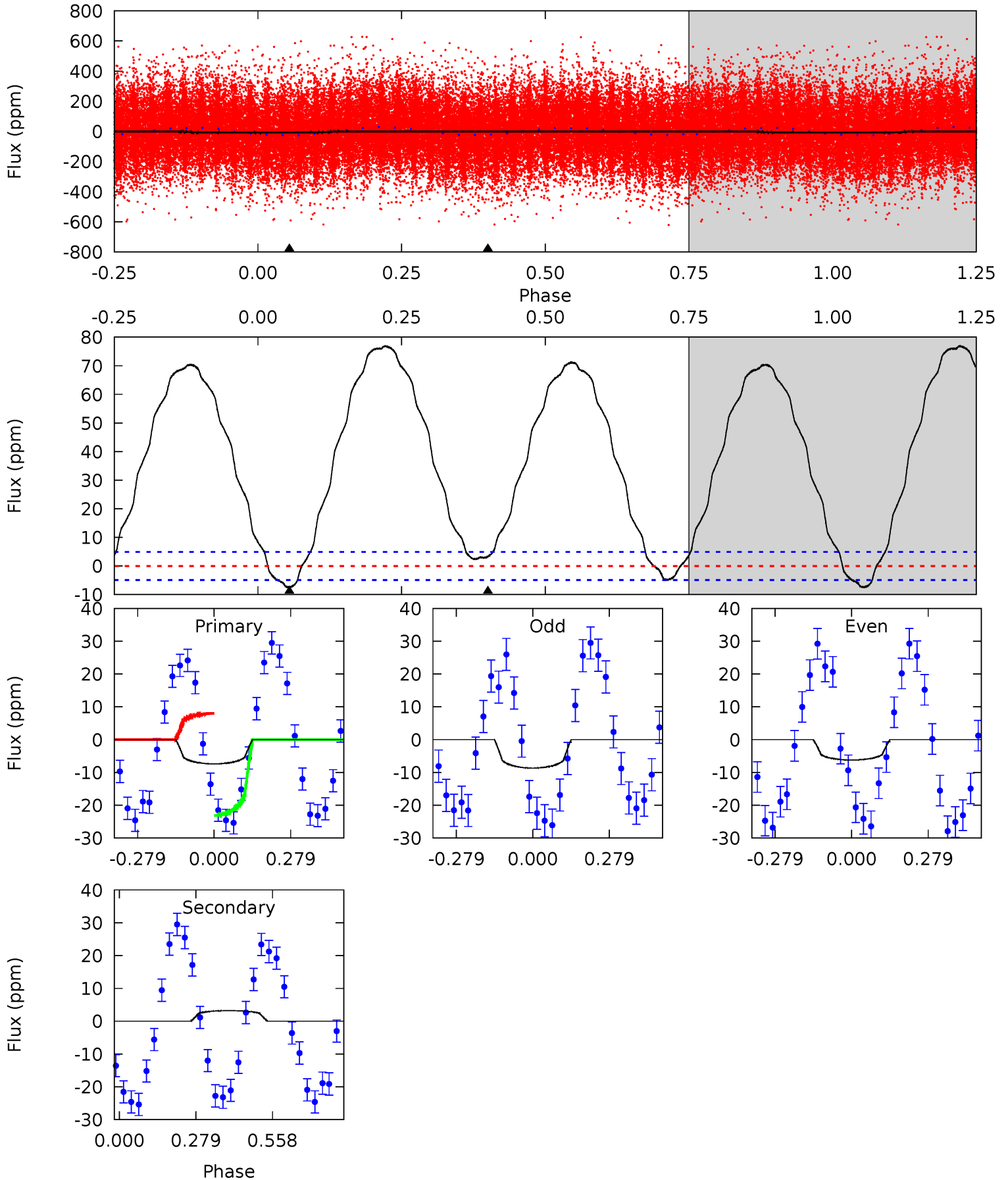
TCE 005894044-01 P= 0.715199 Days $T_0=132.195621$ (BKJD)



DV Model-Shift Uniqueness Test

005894044-01, P = 0.715134 Days, E = 130.798239 Days

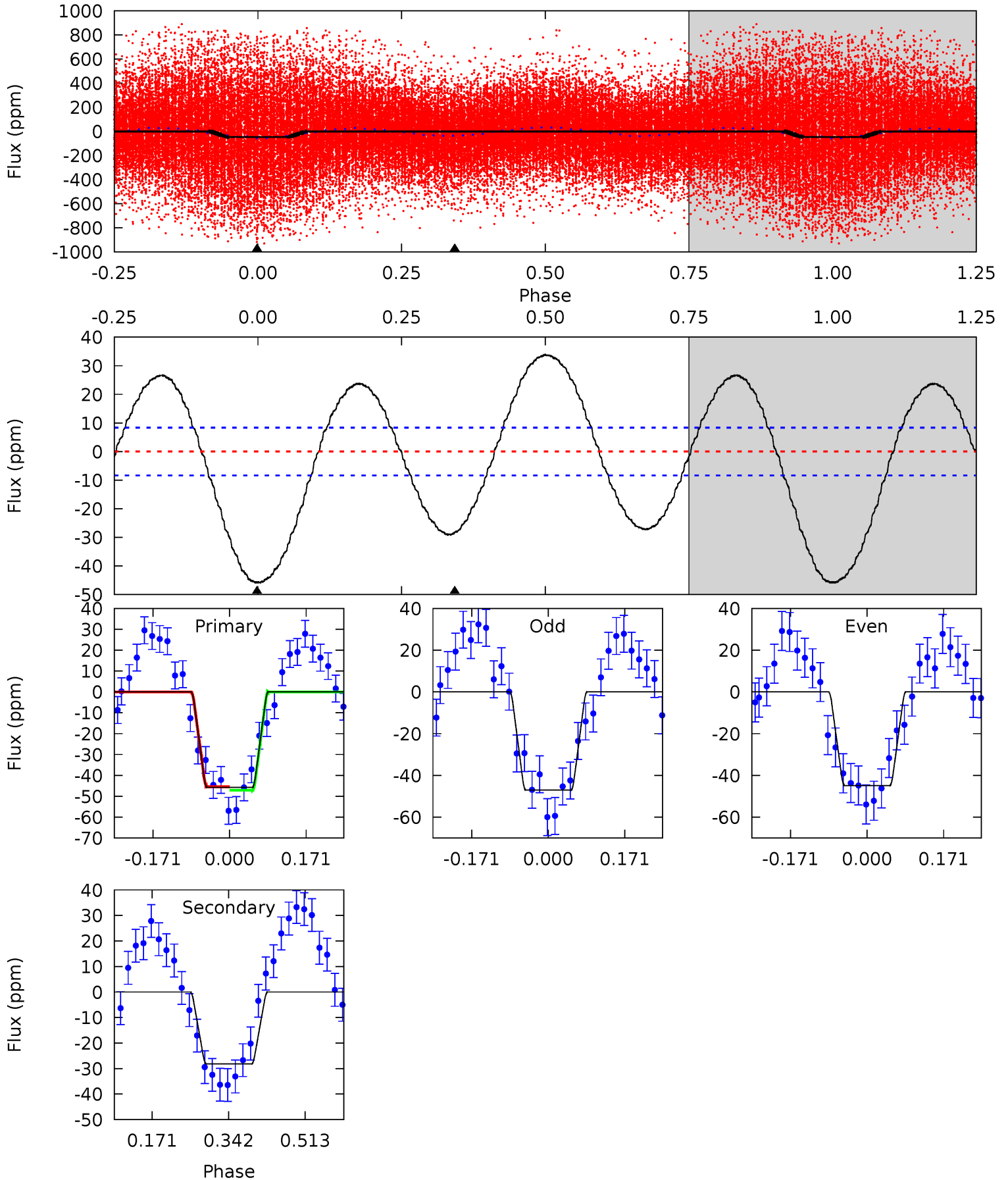
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.54	-2.84	0	0	4.34	1.08	5.87	6.54	6.54	-2.84	-2.84	1.08	1.01	0.91	6.71



Alt Model-Shift Uniqueness Test

005894044-01, P = 0.715199 Days, E = 131.480422 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.4	15.0	0	0	4.45	1.37	10.6	24.4	24.4	15.0	15.0	0.58	1.03	0.42	0.42



Stellar Parameters For KIC 005894044

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6748^{+162}_{-202}	$3.371^{+0.456}_{-0.048}$	$-0.240^{+0.300}_{-0.250}$	$4.826^{+0.254}_{-2.285}$	$1.998^{+0.152}_{-0.455}$	$0.025^{+0.101}_{-0.004}$
	+2%/-3%	+14%/-1%	+125%/-104%	+5%/-47%	+8%/-23%	+405%/-16%
Source	PHO1	FLK73	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 005894044-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	3 ± 1	$1.69^{+1.50}_{-1.15}$	6359^{+294}_{-714}	-5920^{+577}_{-3124}	$-0.227^{+0.168}_{-1.953}$
Alt.	-28 ± 2	$3.40^{+1.79}_{-1.64}$	6365^{+302}_{-715}	4819^{+2745}_{-8890}	$0.520^{+1.390}_{-0.303}$

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 $A_{obs} \gg 1.0$

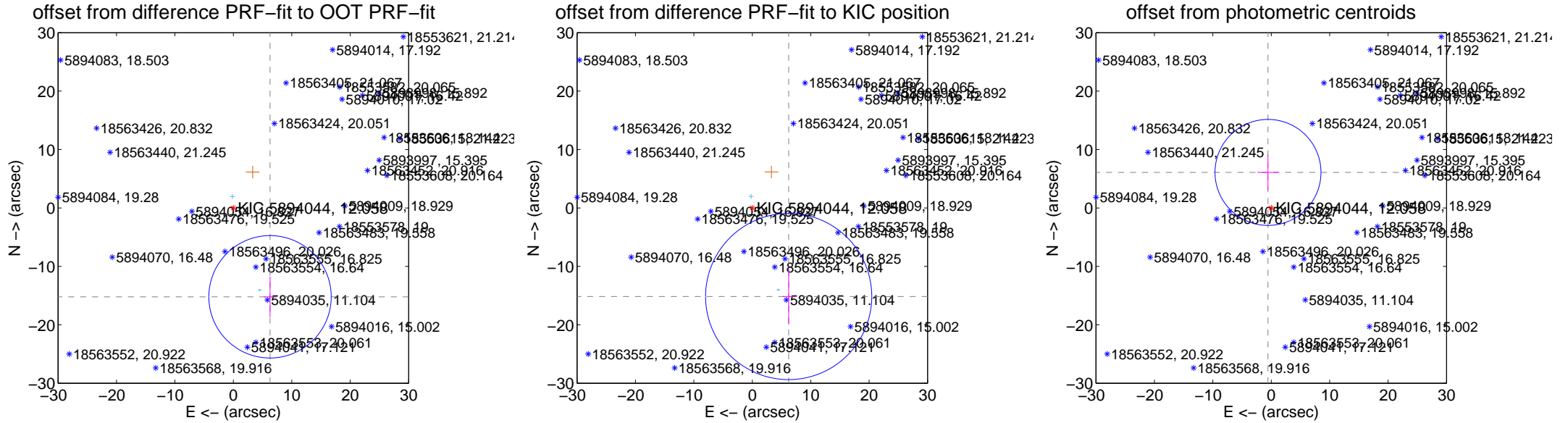
DV Centroid Data

Supplemental centroid analysis for 005894044-01. Kepler magnitude: 12.06. Transit SNR 3.42

There are 3 quarters with good PRF difference image offsets

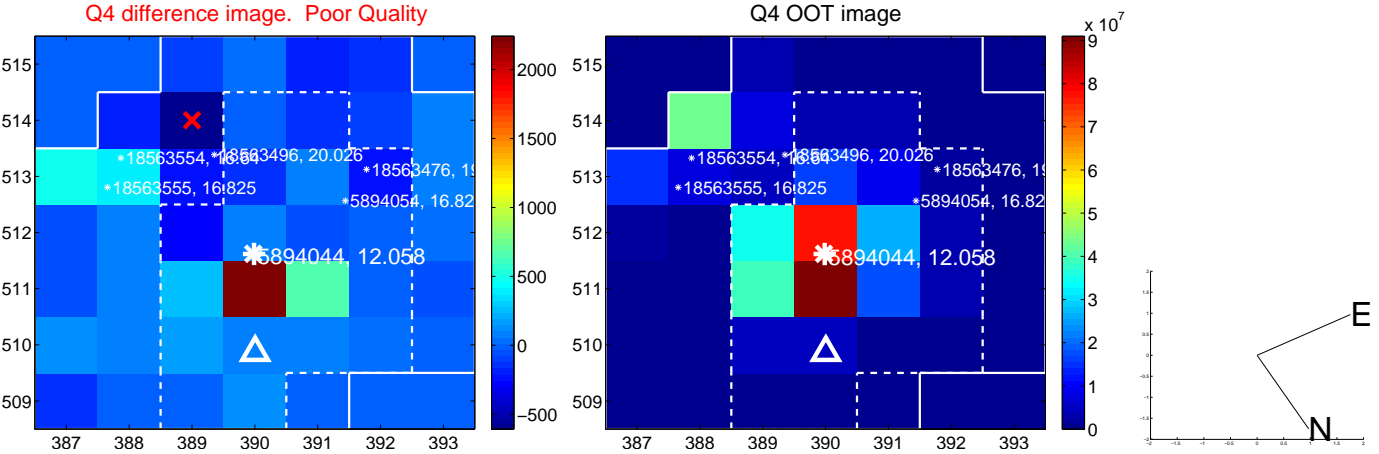
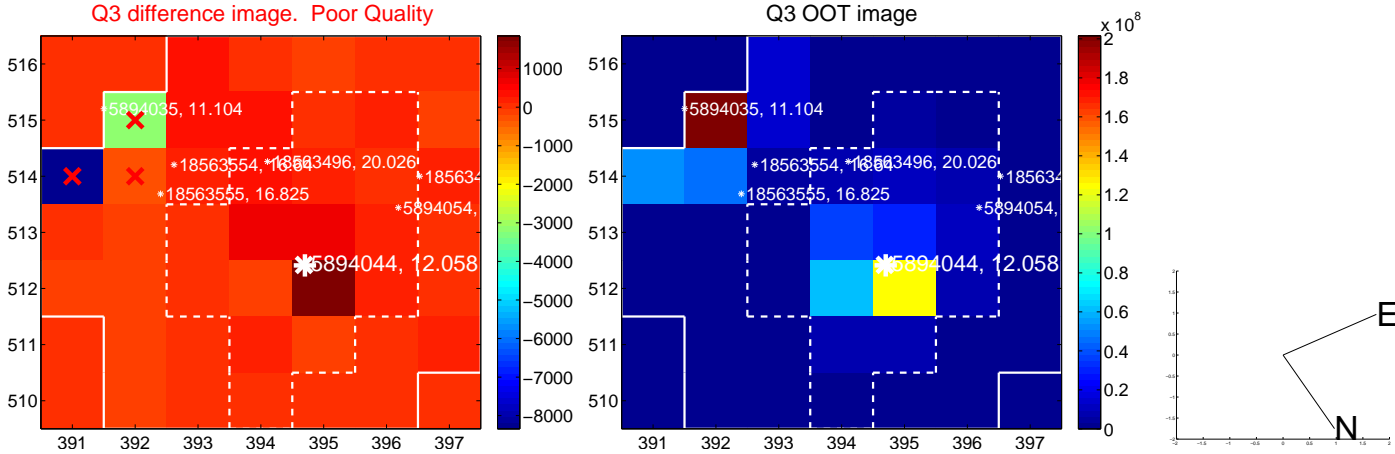
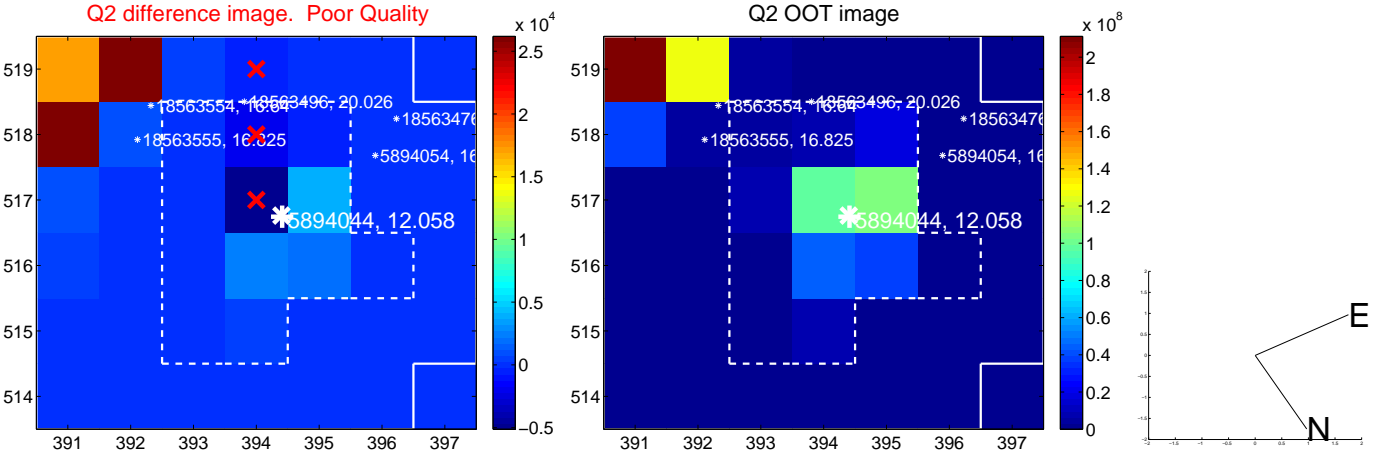
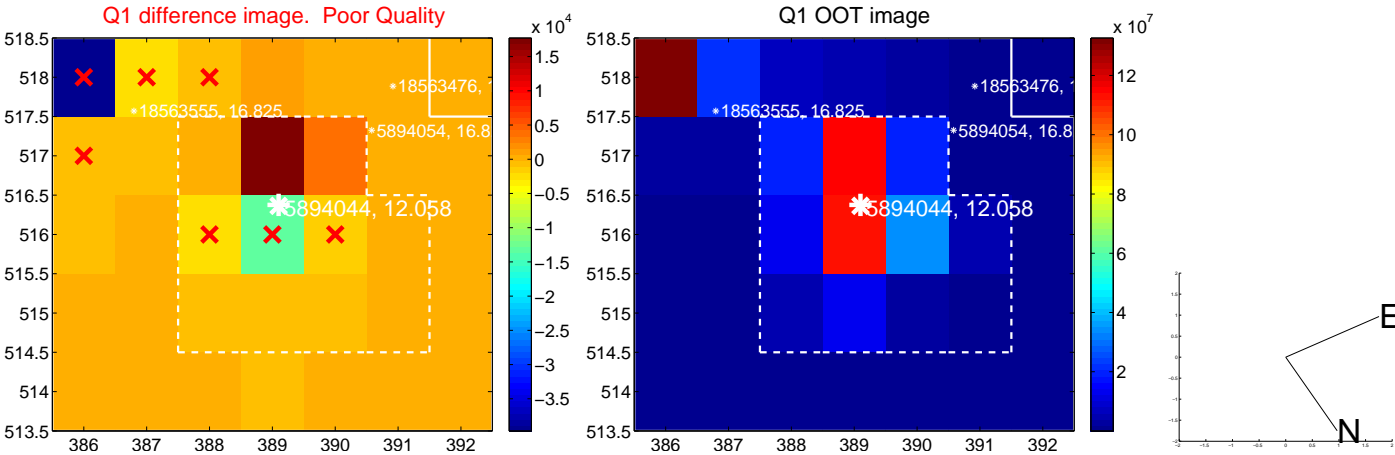
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	16.452 ± 3.491	4.71	-6.278 ± 1.070	-15.207 ± 3.461
PRF-fit source offset from KIC position	16.385 ± 4.741	3.46	-6.227 ± 1.031	-15.156 ± 4.803
photometric centroid source offset	6.11 ± 3.02	2.02	0.56 ± 1.85	6.08 ± 3.03

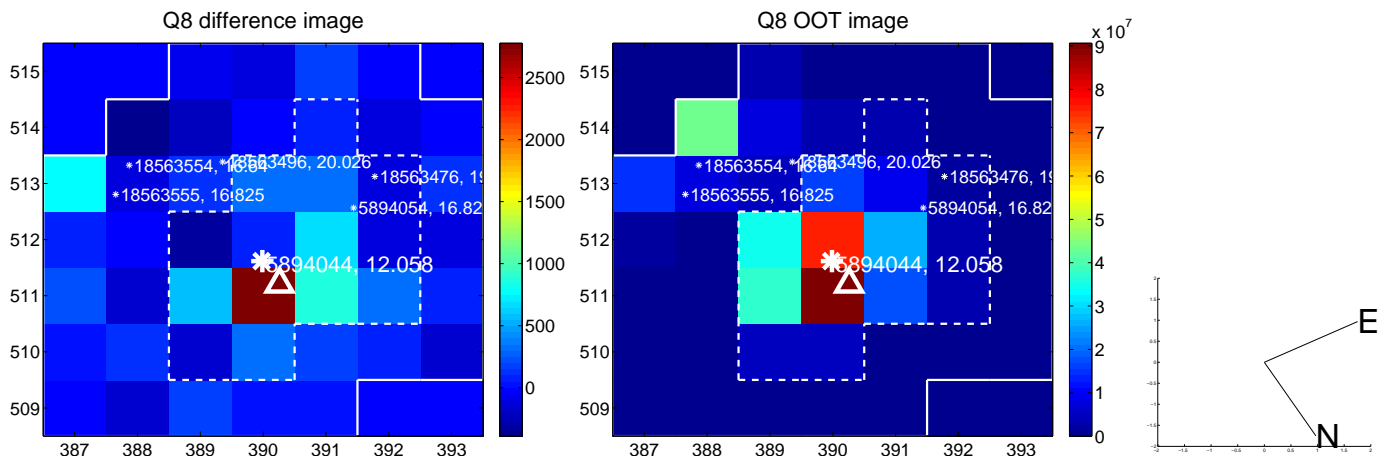
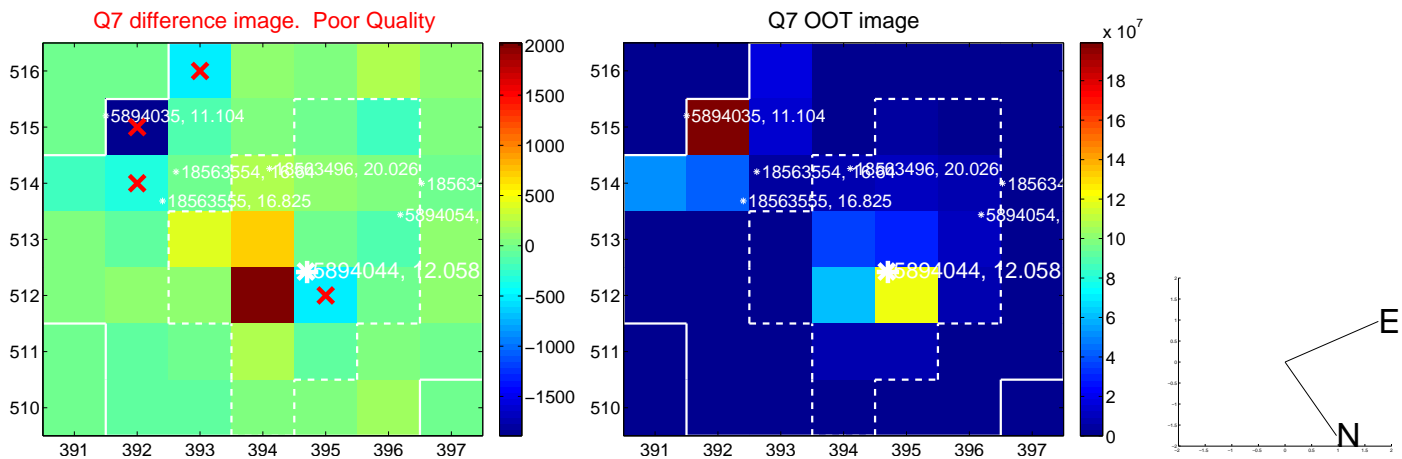
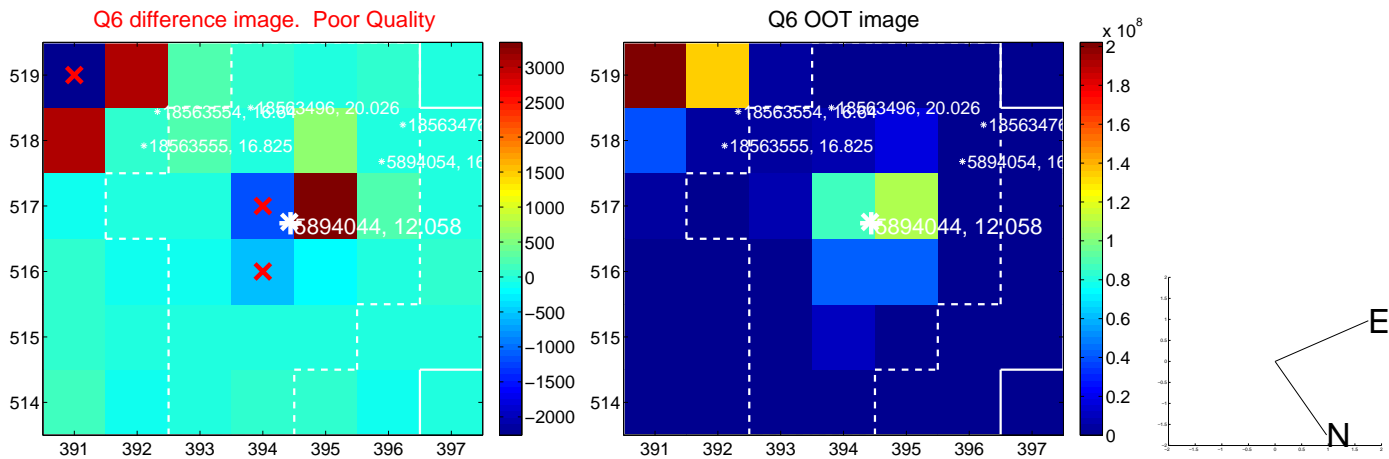
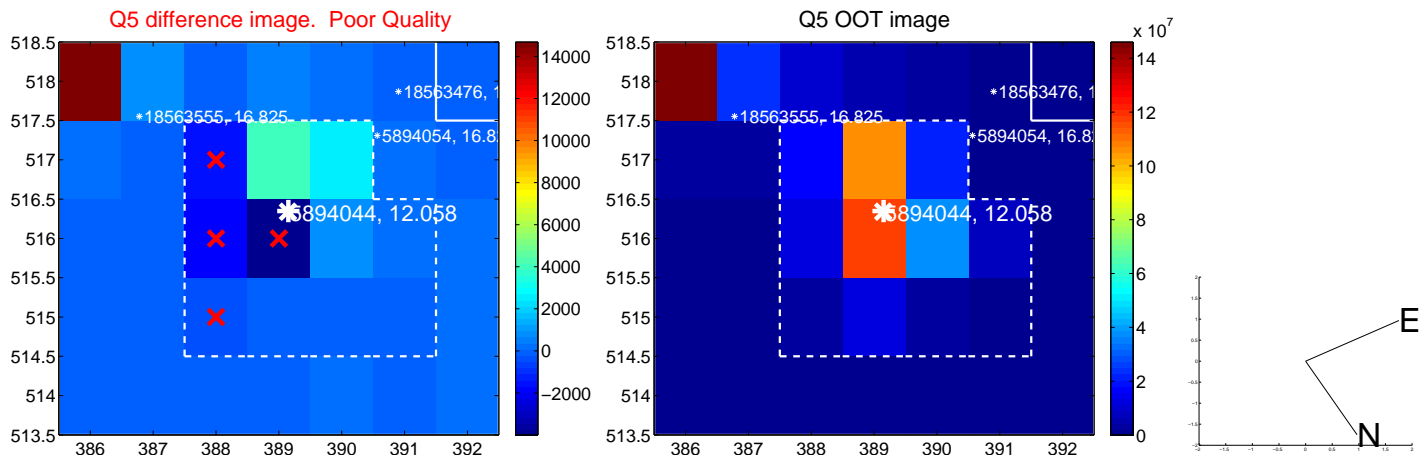


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

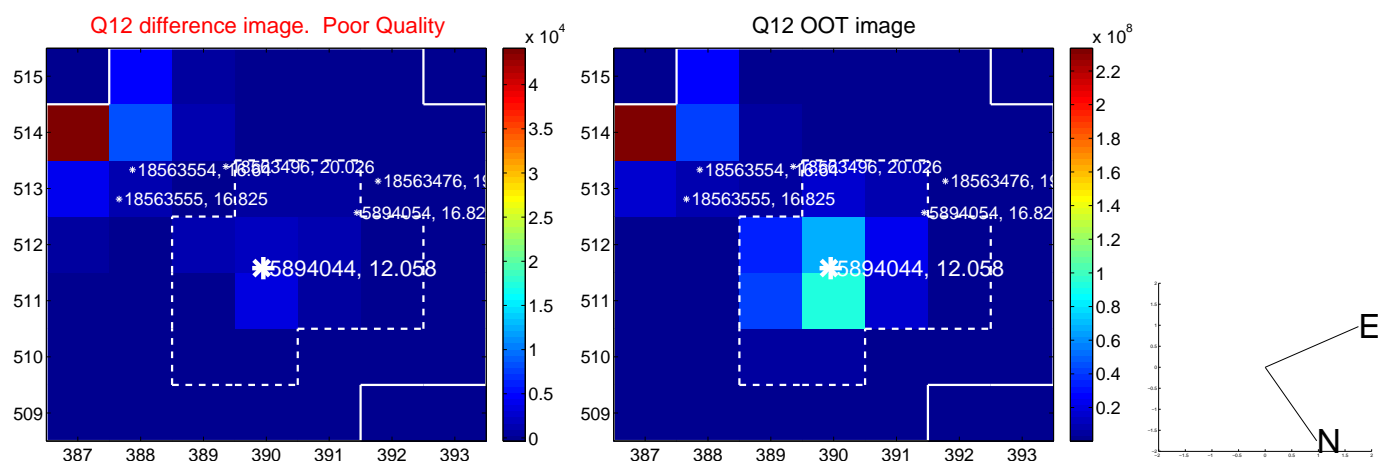
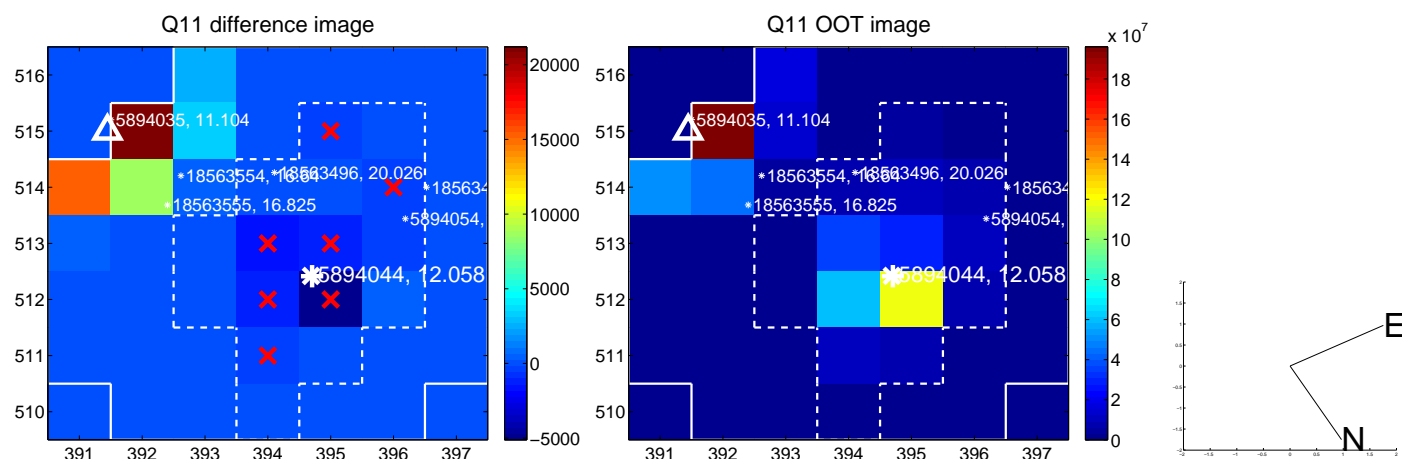
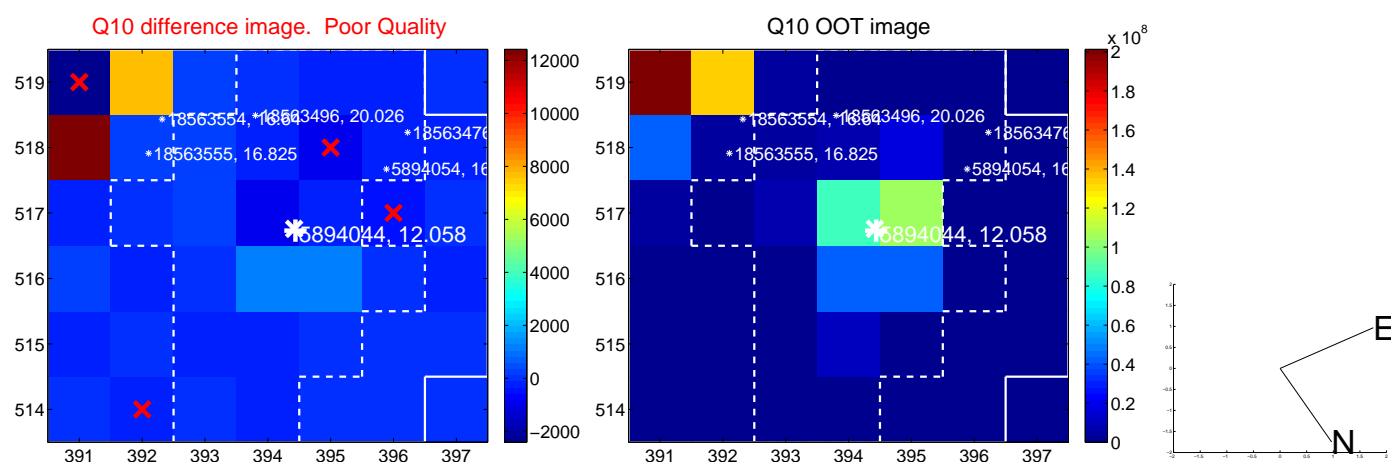
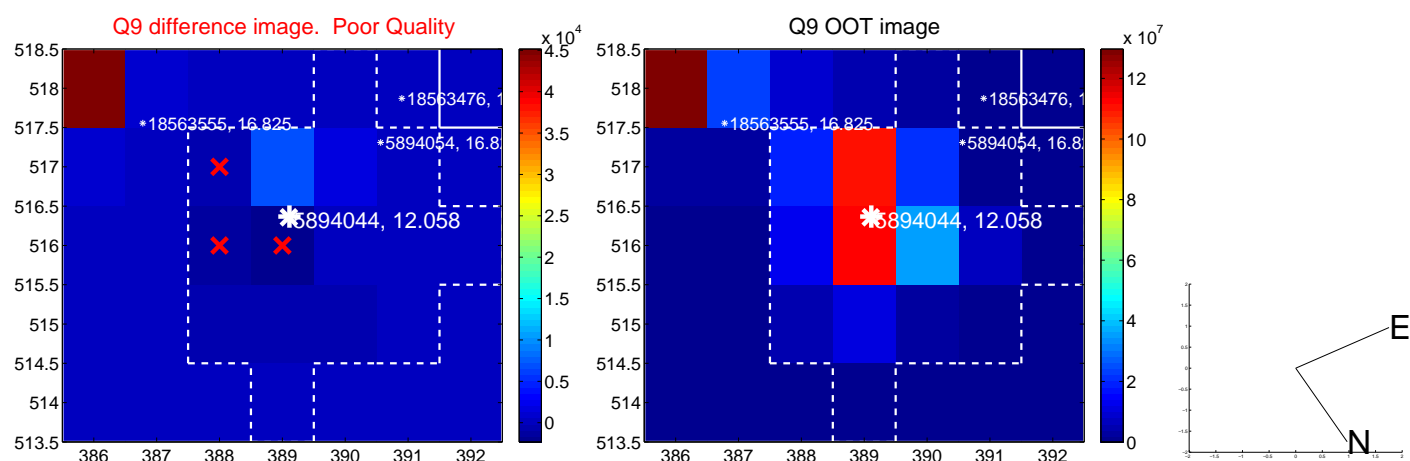
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



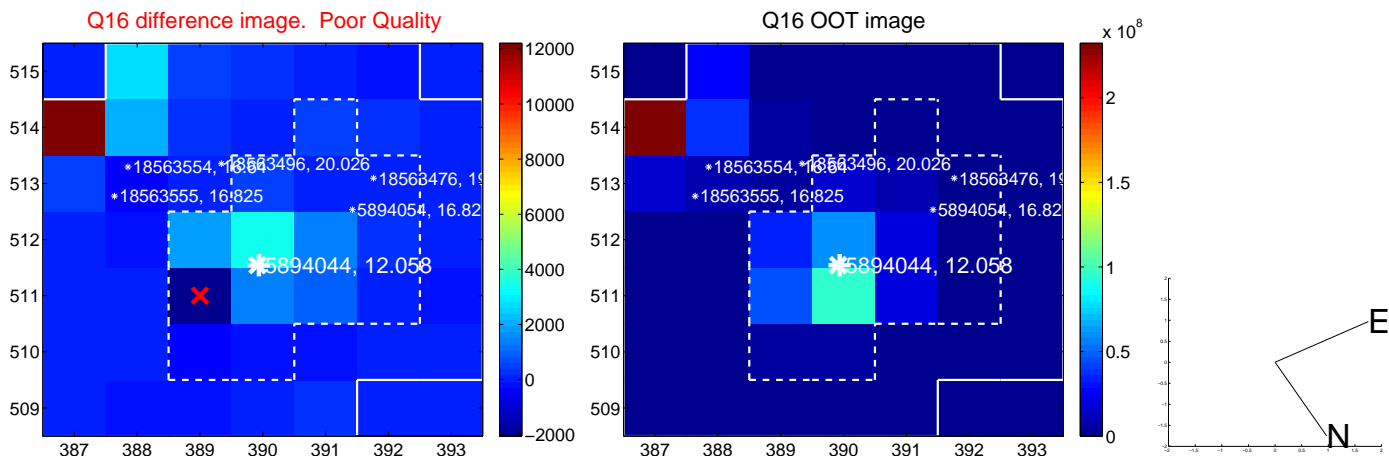
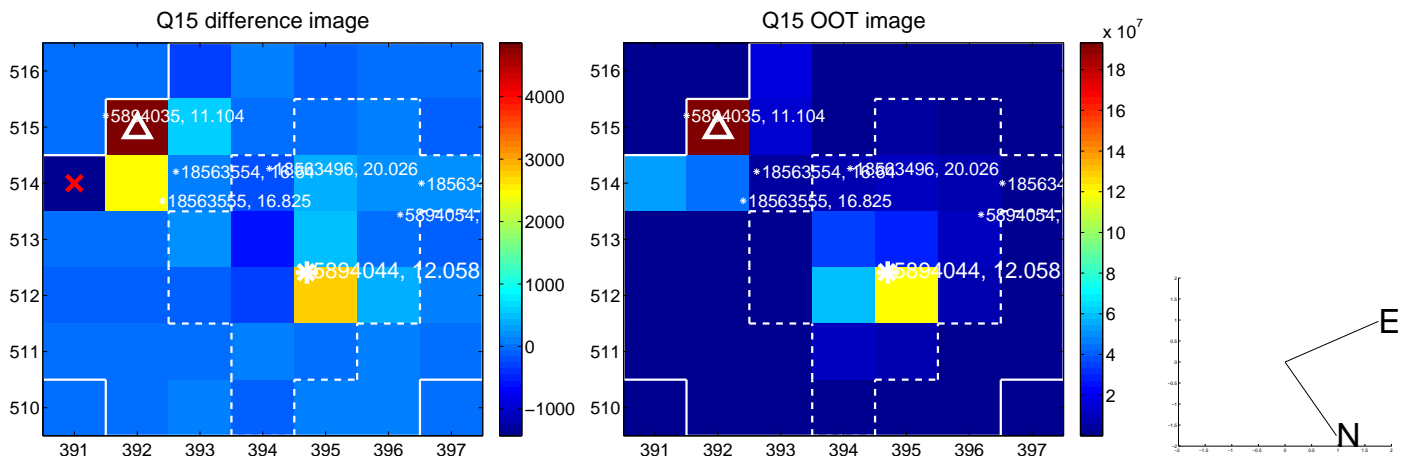
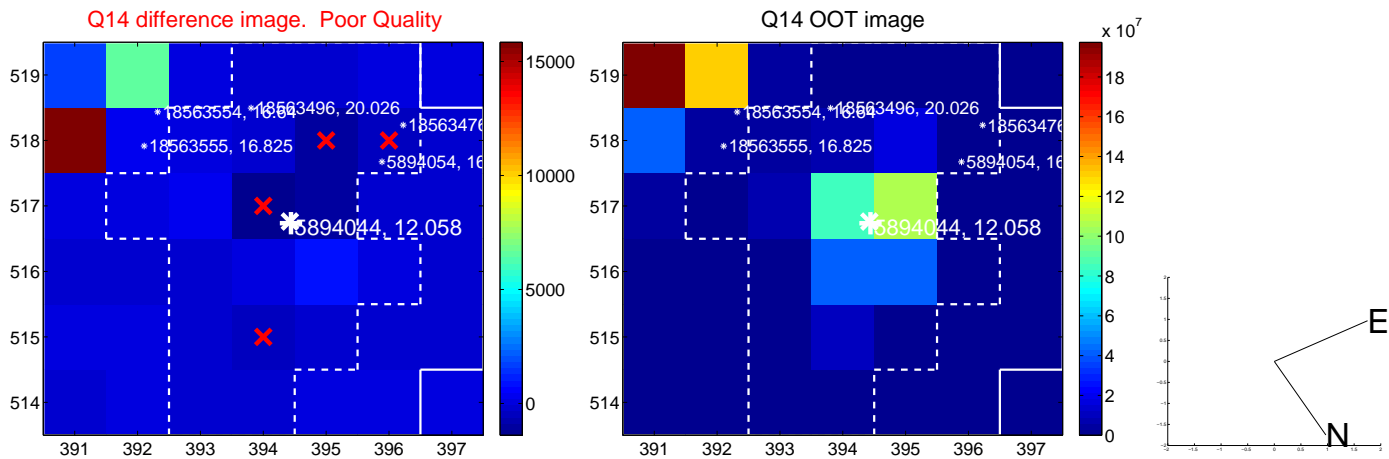
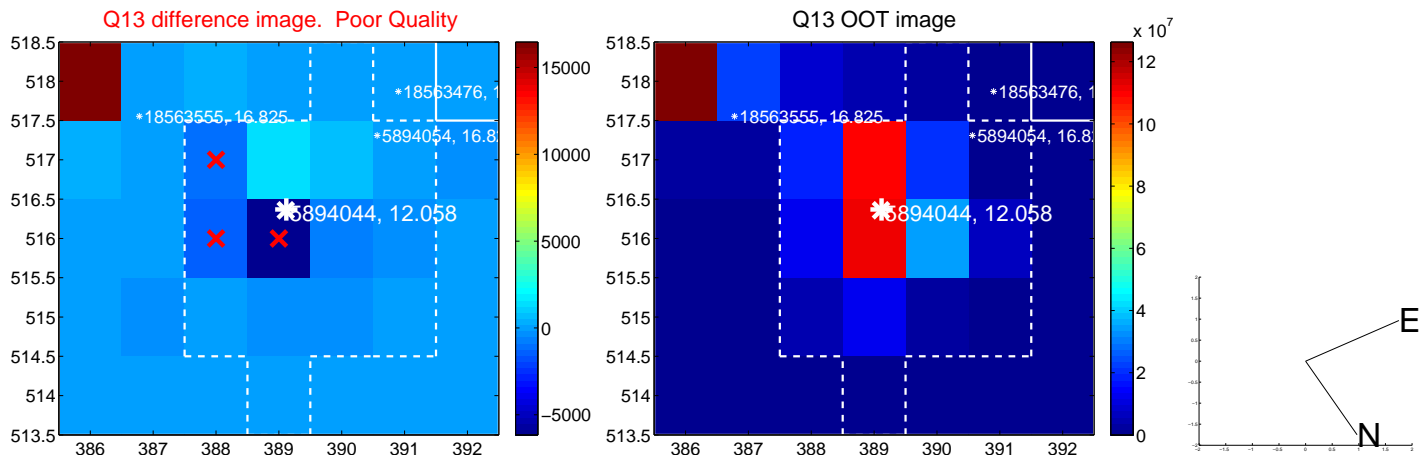
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



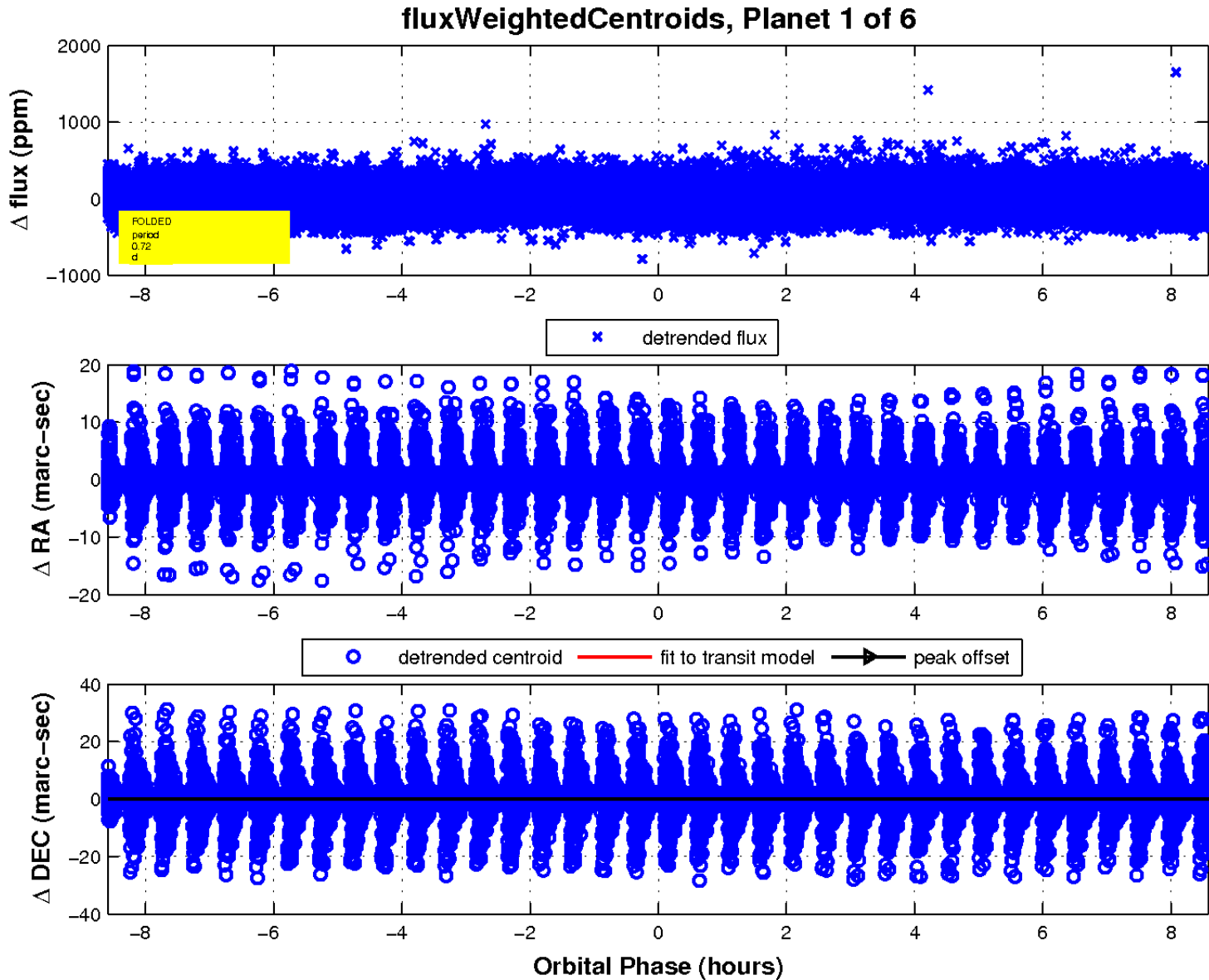
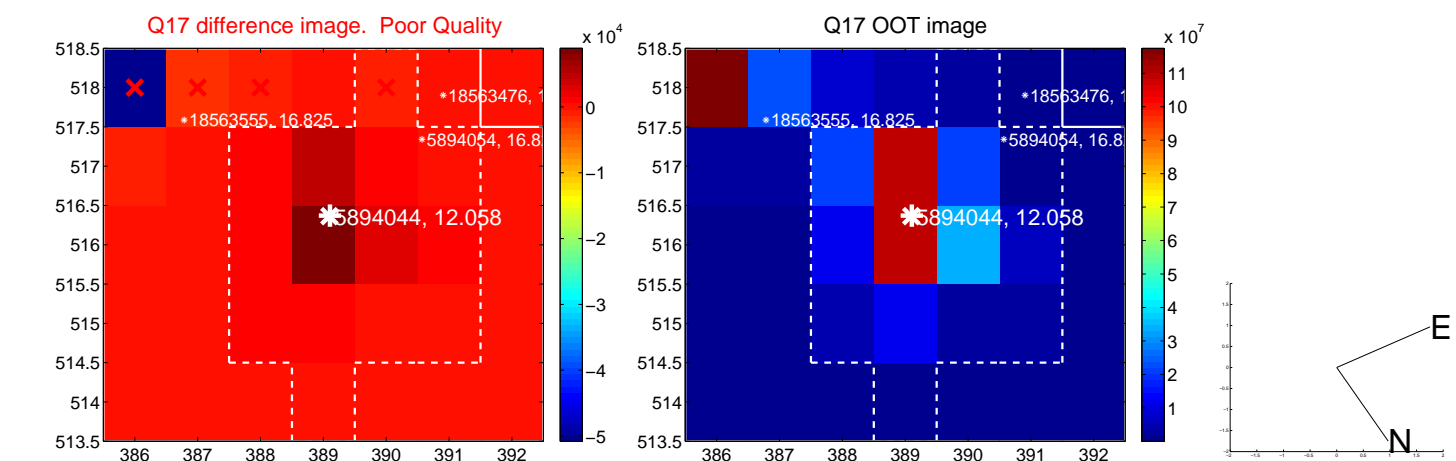
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

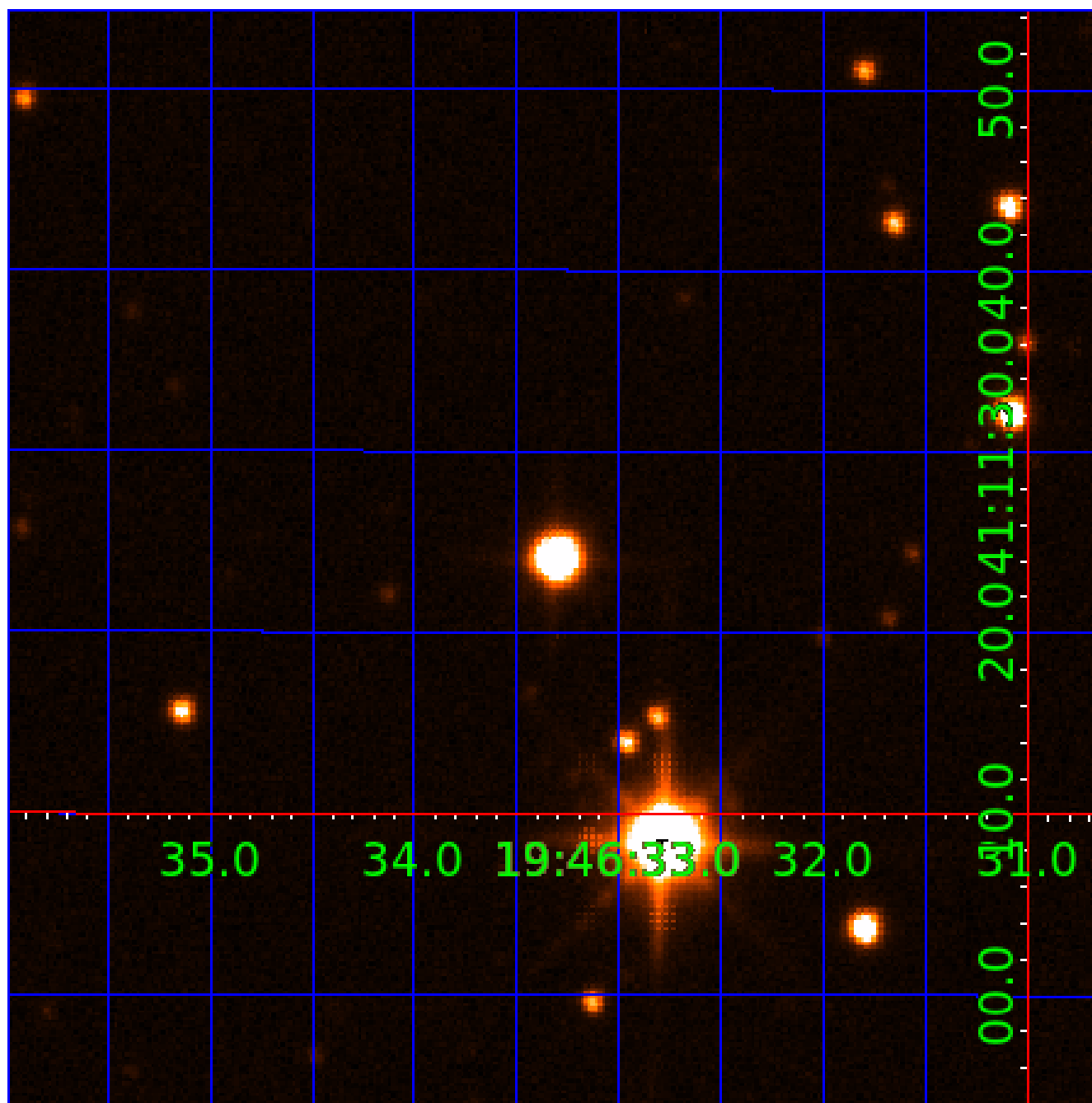


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005894044

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})
005894044-01	OBS	No	0.715134	132.228507	6.9	4.342	10.4	3.4	4.83	6748	1.28	0.00
005894044-02	OBS	No	92.770283	176.774813	472.5	4.523	13.7	10.7	4.83	6748	10.98	169.61
005894044-03	OBS	No	0.715156	131.769425	47.2	1.947	13.3	20.1	4.83	6748	3.35	0.00
005894044-05	OBS	No	9.525038	132.487894	350.6	1.016	10.9	8.5	4.83	6748	10.70	3527.74
005894044-06	OBS	No	8.895671	136.212688	214.9	2.213	8.1	8.8	4.83	6748	7.27	3864.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005894044-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005894044-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_RESOLVED_OFFSET
005894044-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
005894044-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET
005894044-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

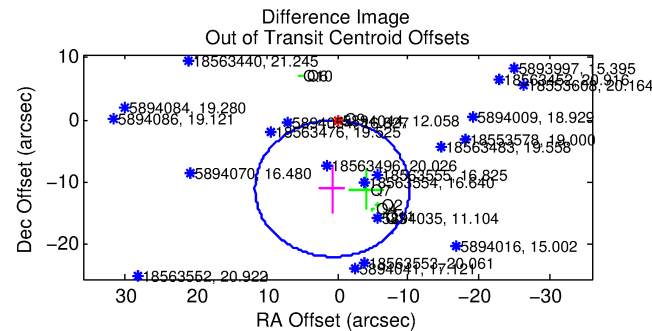
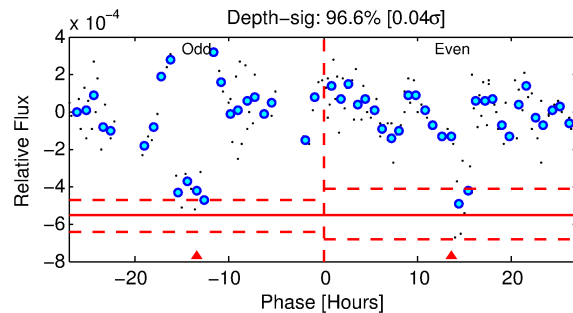
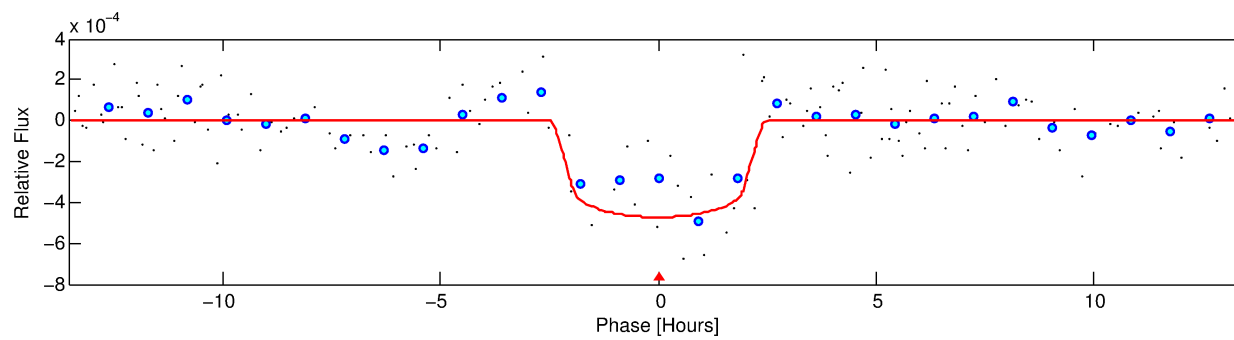
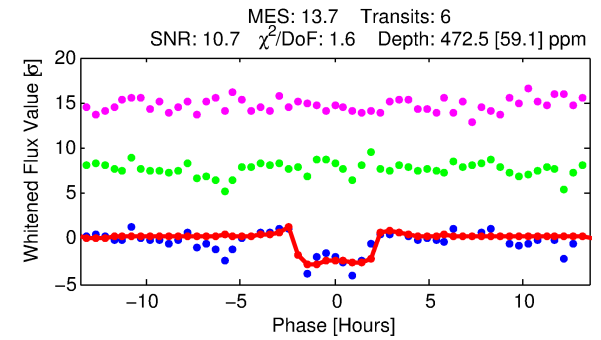
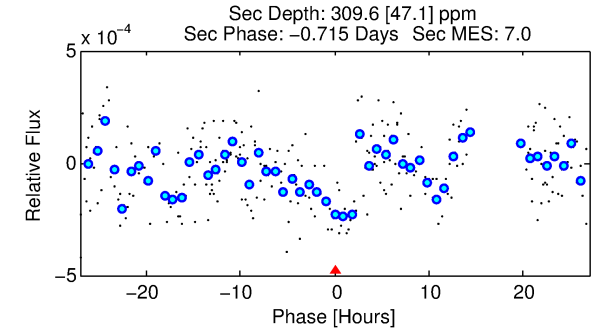
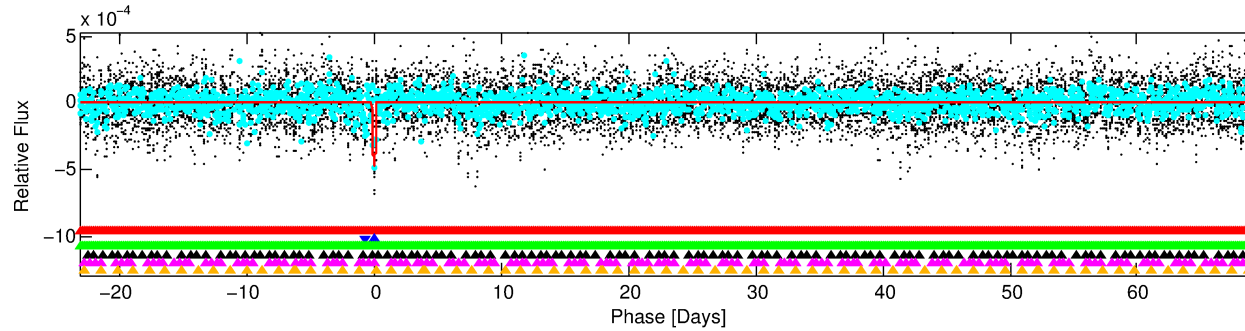
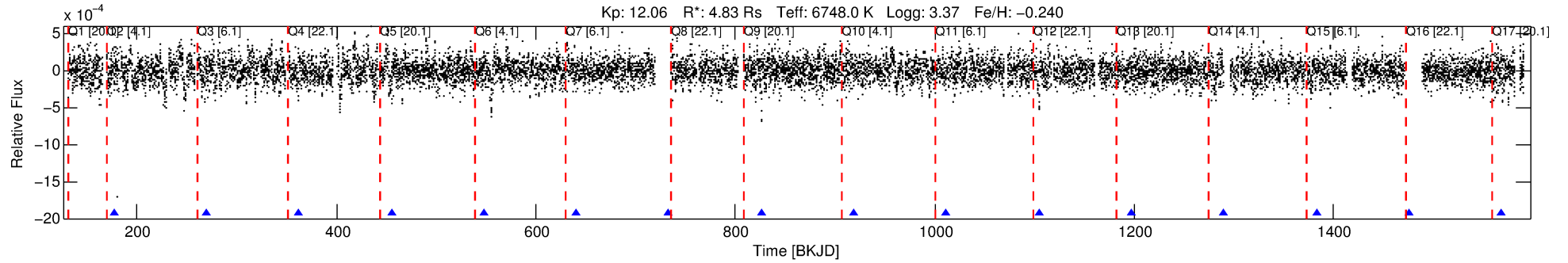
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005894044-02

No Significant Match Found

DV One-Page Summary

KIC: 5894044 Candidate: 2 of 6 Period: 92.770 d



DV Fit Results:

Period = 92.77028 [0.00090] d
Epoch = 176.7748 [0.0084] BKJD
Rp/R* = 0.0208 [0.0143]
a/R* = 131.88 [507.66]
b = 0.58 [4.47]
Seff = 169.61 [131.81]
Teq = 920 [179] K
Rp = 10.98 [9.16] Re
a = 0.5051 [0.2380] AU
Ag = 360.74 [570.63] [0.63σ]
Teffp = 6200 [2152] K [2.45σ]

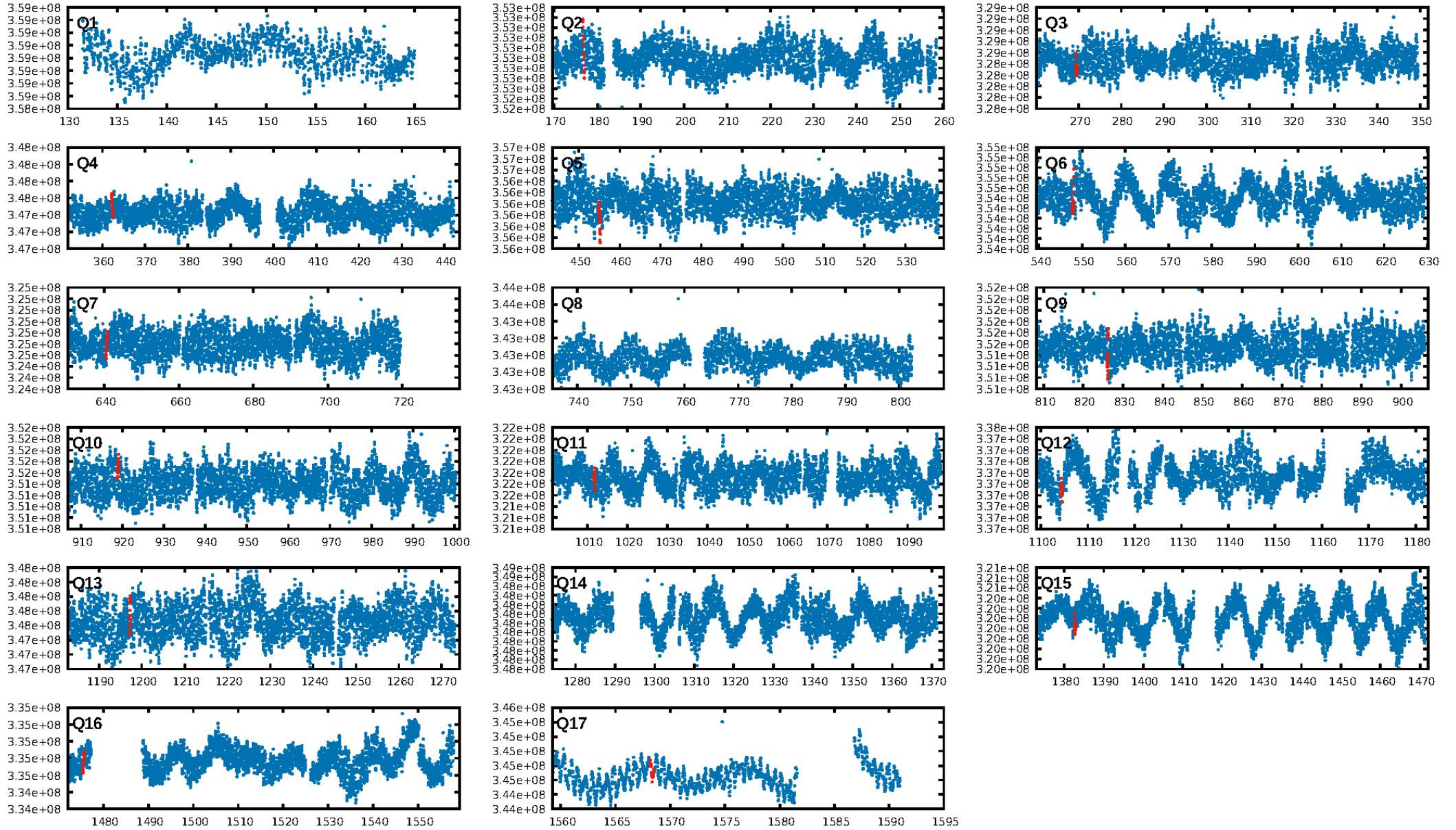
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [376.81σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.44e-14
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -0.9835
Centroid-sig: N/A
Centroid-so: 2.136 arcsec [4.01σ]
OotOffset-rm: 11.054 arcsec [3.03σ]
KicOffset-rm: 11.979 arcsec [4.77σ]
OotOffset-st: 3/3/1/1 [8]
KicOffset-st: 3/3/1/1 [8]
DiffImageQuality-fgm: 0.38 [3/8]
DiffImageOverlap-fno: 0.00 [0/11]

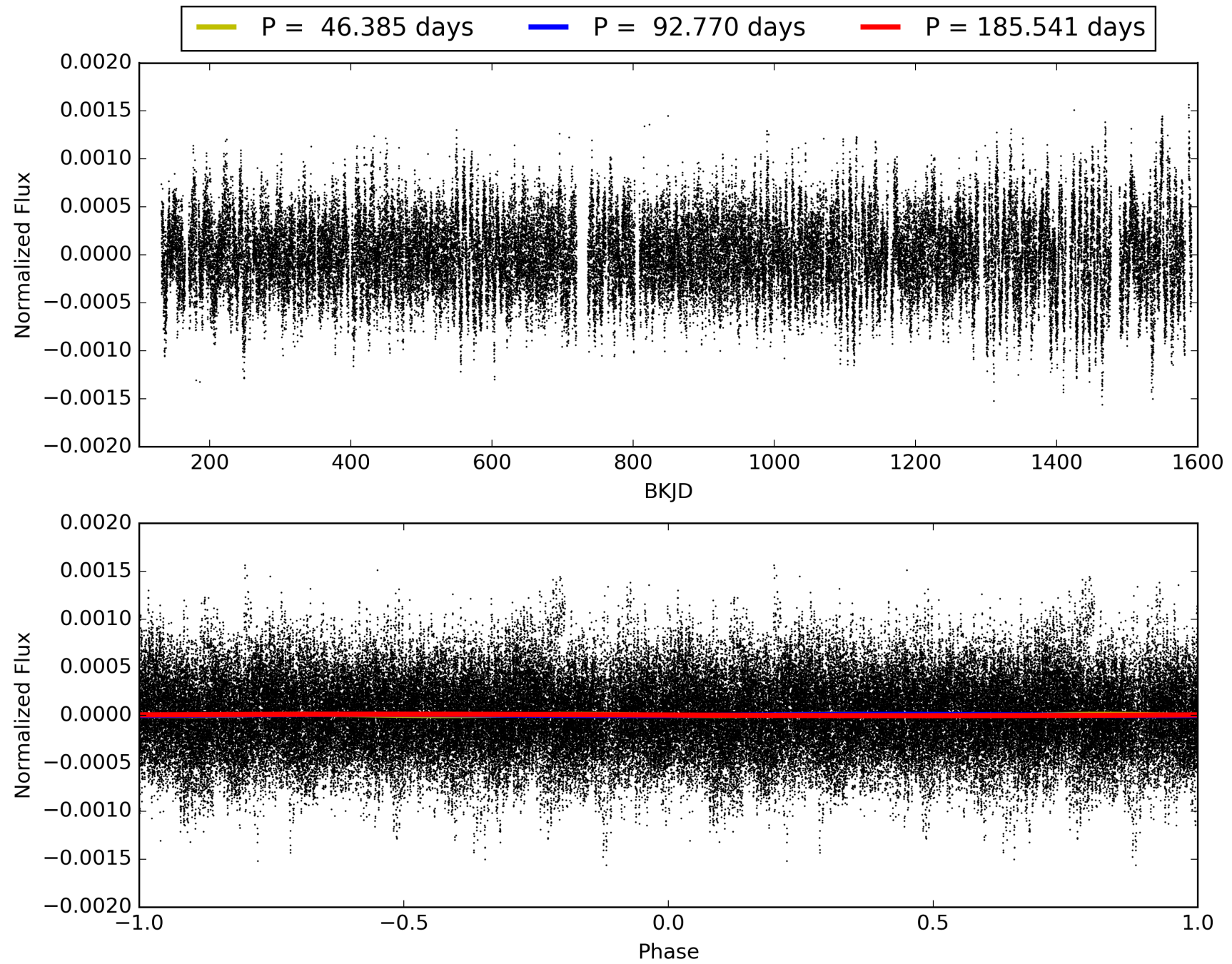
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005894044-02, PDC Light Curves

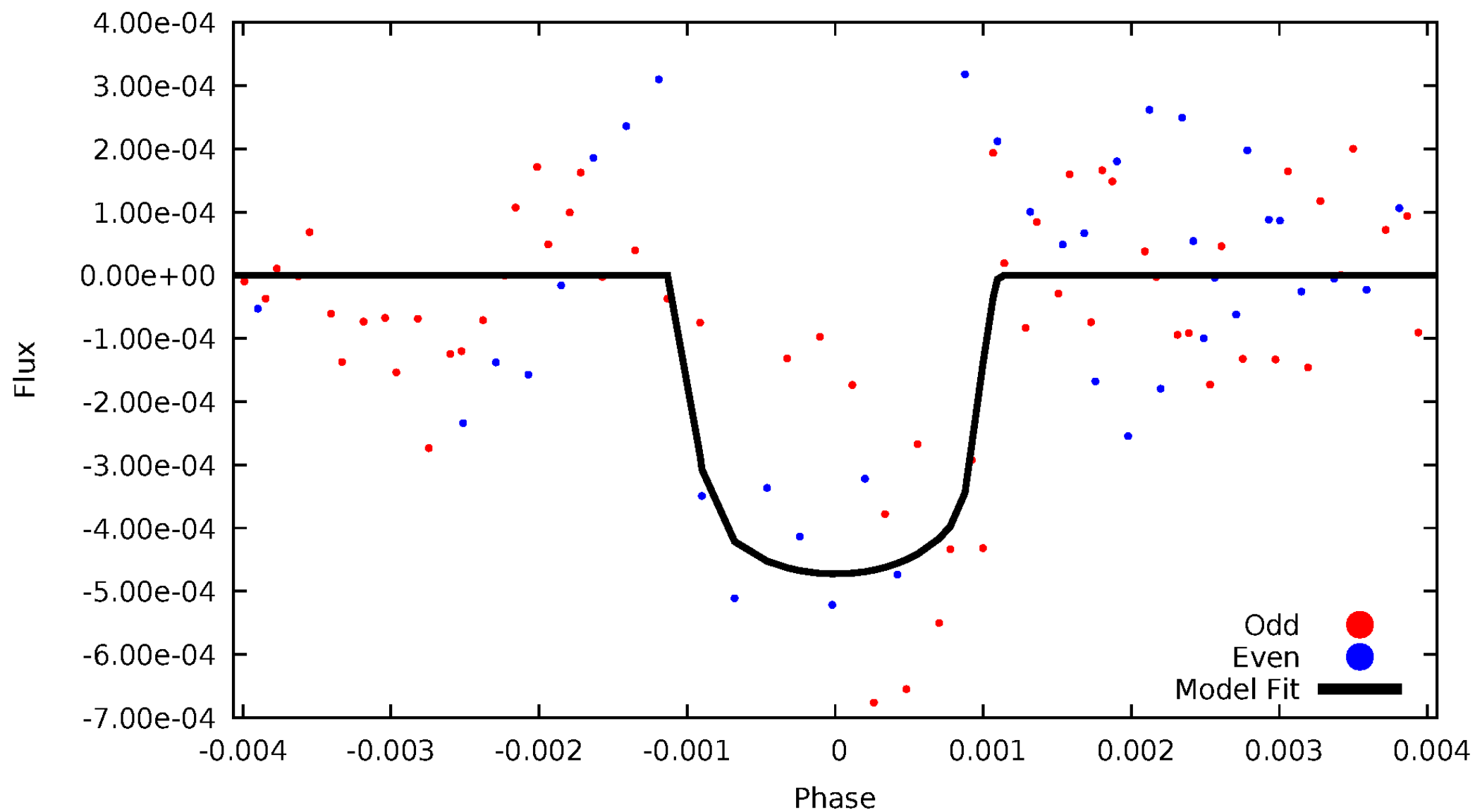


TCE 005894044-02



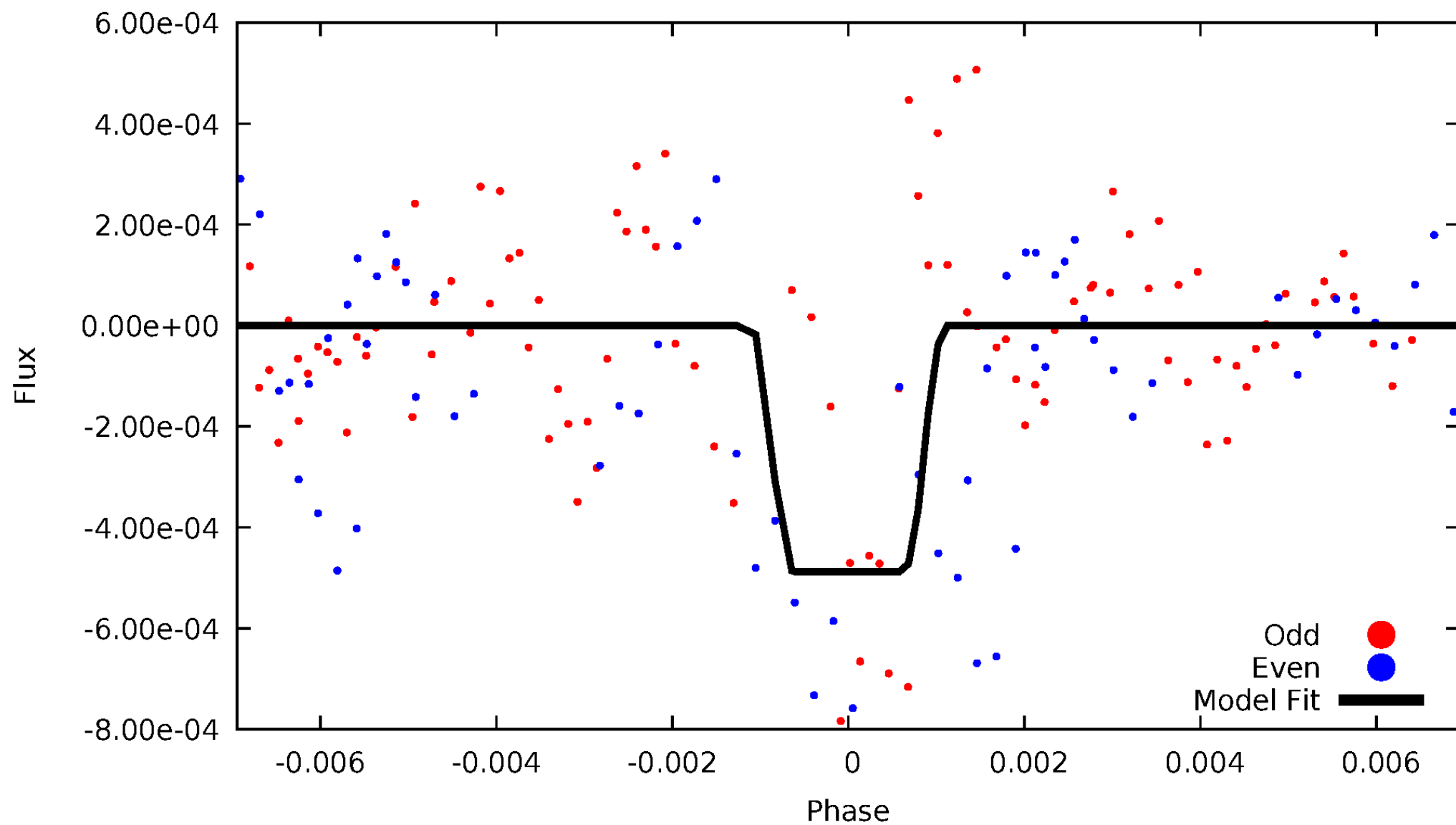
DV Odd/Even

TCE 005894044-02



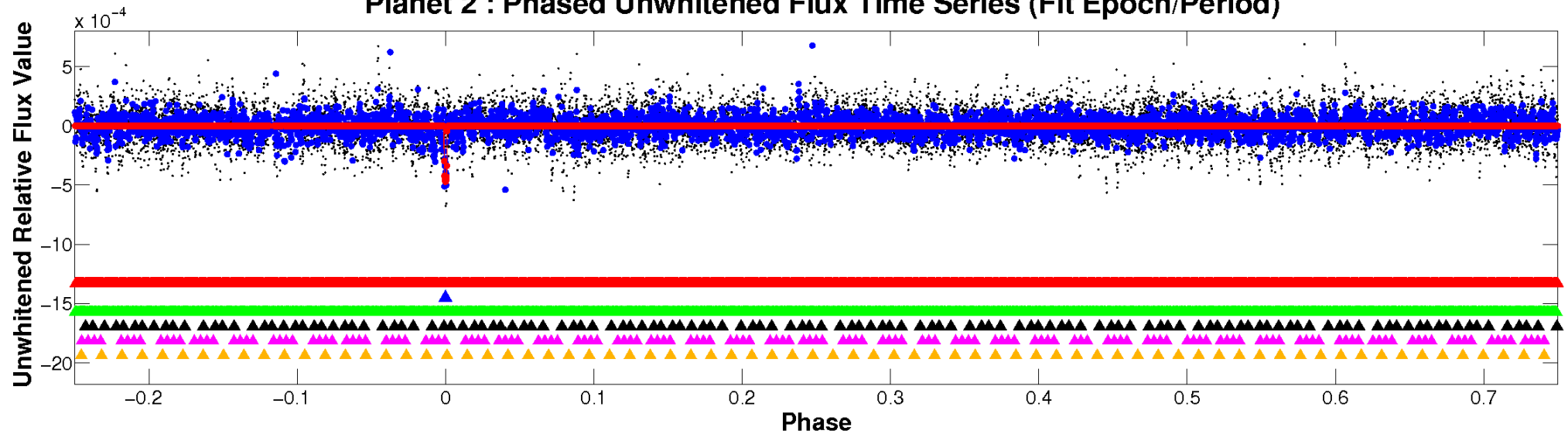
ALT Odd/Even

TCE 005894044-02

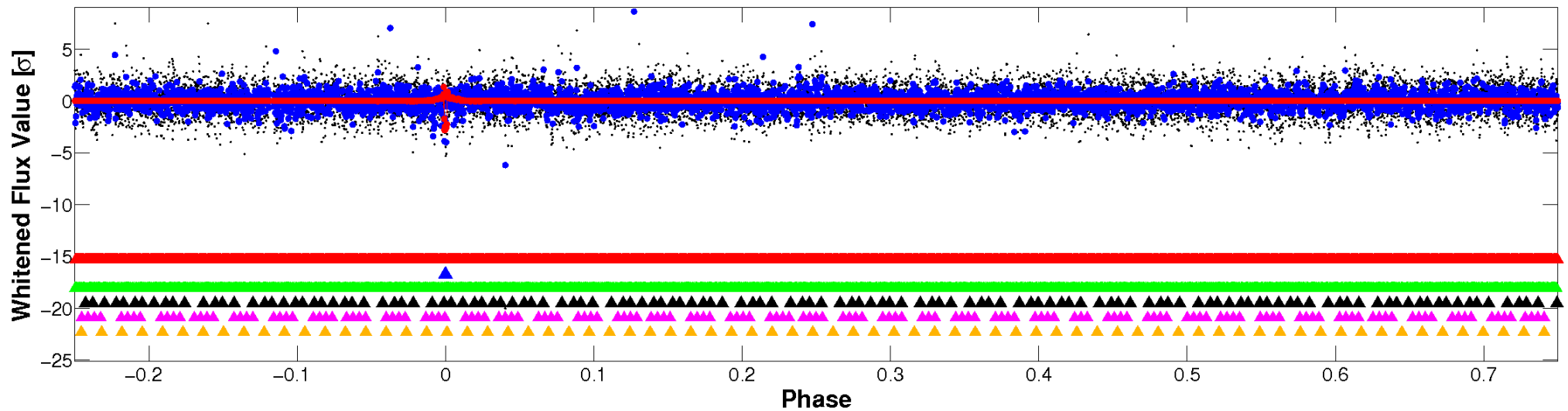


Non-Whitened Vs. Whitened Light Curve

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

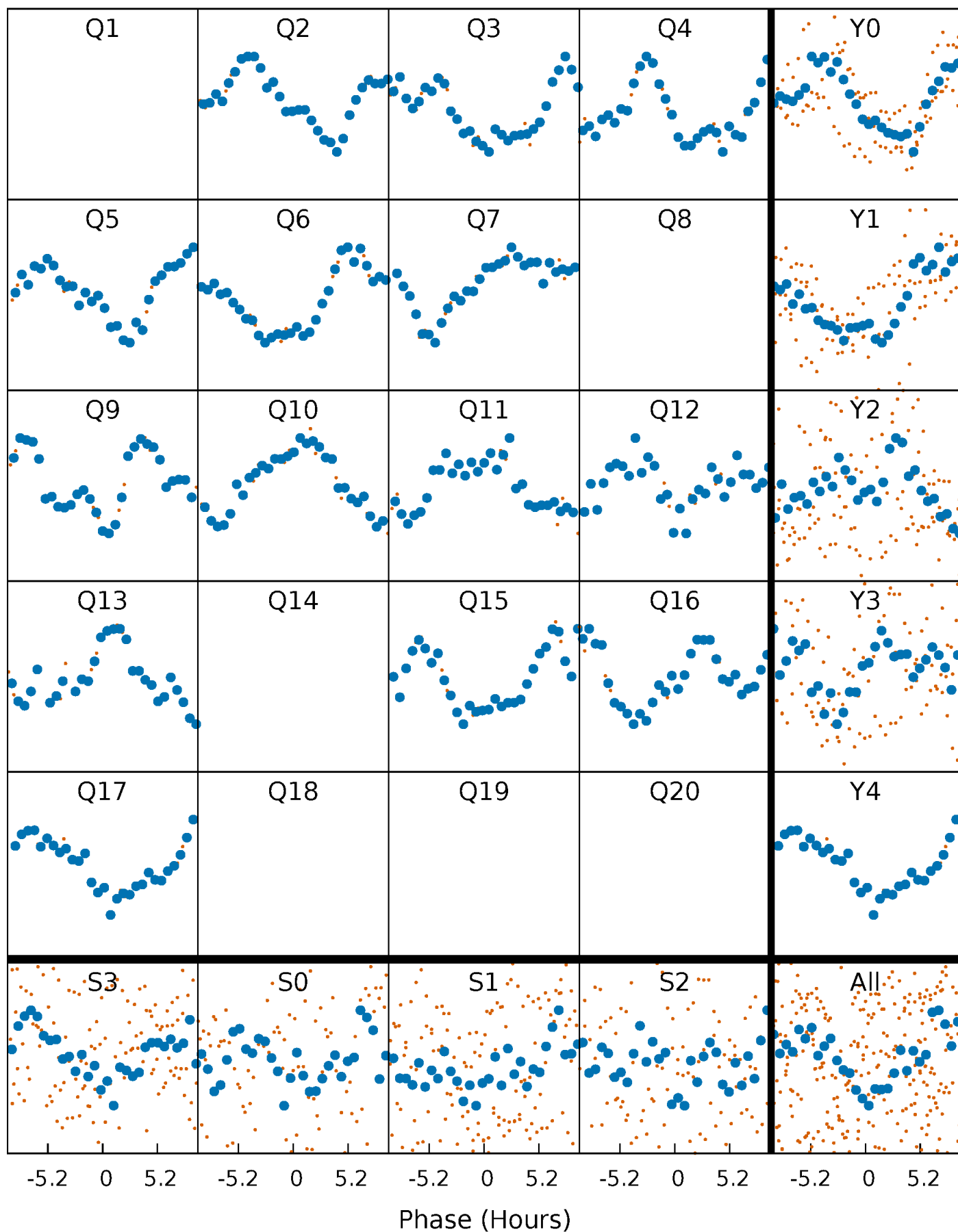


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



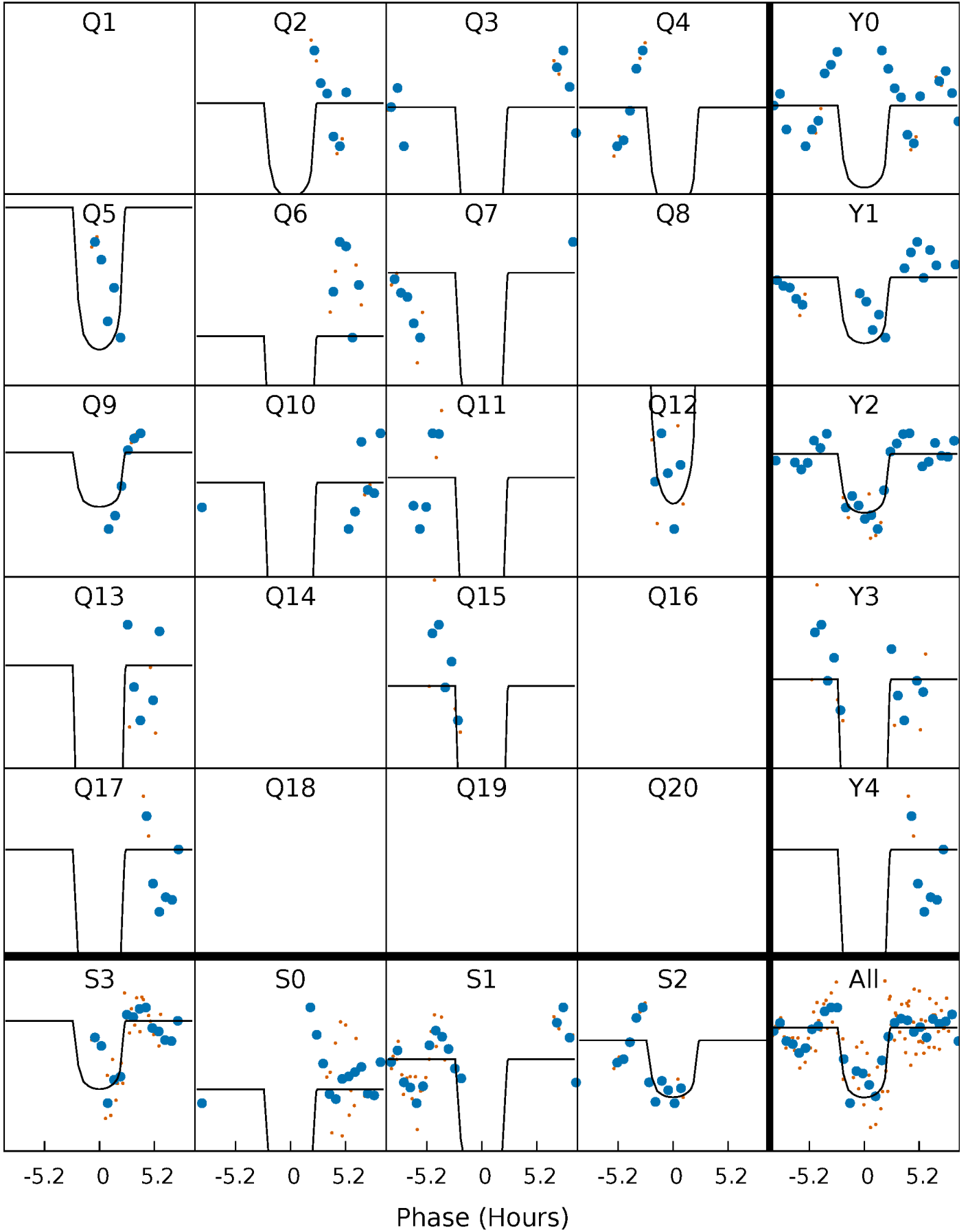
PDC Quarter-Phased Transit Curves

TCE 005894044-02 P= 92.770283 Days $T_0=176.774813$ (BKJD)



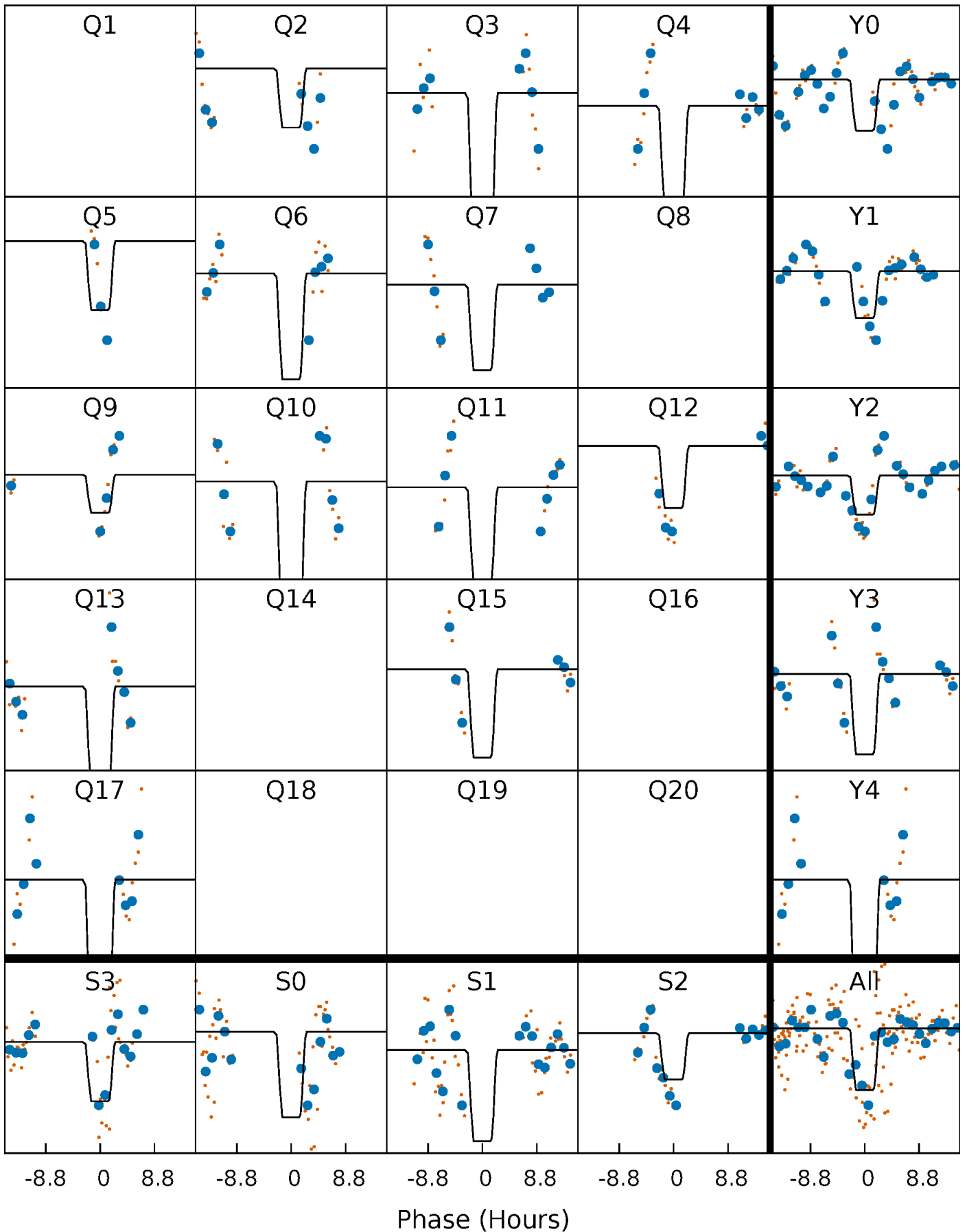
DV Quarter-Phased Transit Curves

TCE 005894044-02 P= 92.770283 Days $T_0=176.774813$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

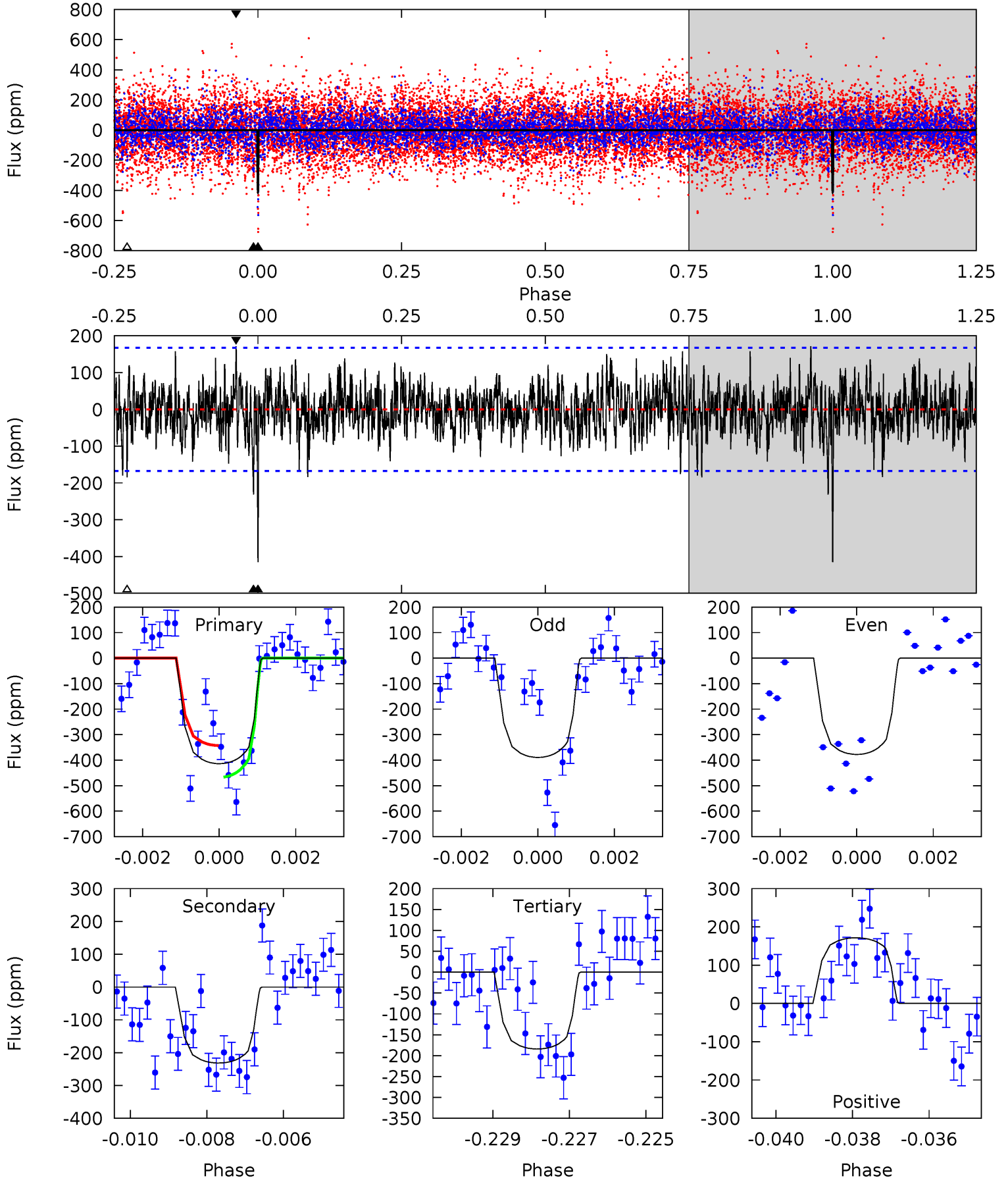
TCE 005894044-02 P= 92.770984 Days $T_0=176.802198$ (BKJD)



DV Model-Shift Uniqueness Test

005894044-02, P = 92.770283 Days, E = 84.004530 Days

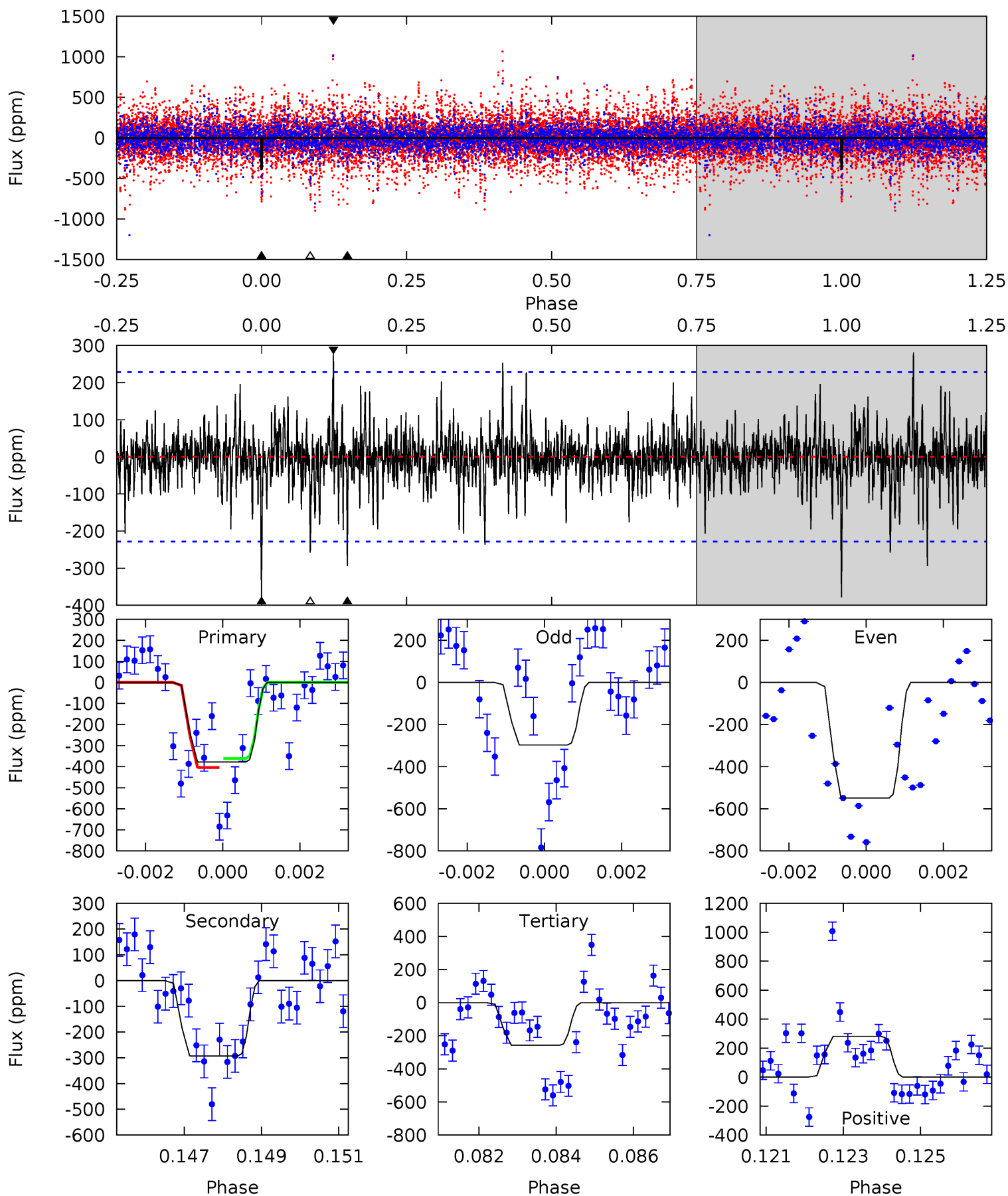
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.2	7.36	5.85	5.45	5.33	3.09	1.62	7.31	7.71	1.51	1.91	0.19	0.65	0.29	1.89



Alt Model-Shift Uniqueness Test

005894044-02, P = 92.770984 Days, E = 84.031214 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.83	6.84	6.02	6.56	5.33	3.10	1.32	2.81	2.27	0.82	0.28	2.65	0.69	0.43	0.48



Stellar Parameters For KIC 005894044

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6748^{+162}_{-202}	$3.371^{+0.456}_{-0.048}$	$-0.240^{+0.300}_{-0.250}$	$4.826^{+0.254}_{-2.285}$	$1.998^{+0.152}_{-0.455}$	$0.025^{+0.101}_{-0.004}$
	+2%/-3%	+14%/-1%	+125%/-104%	+5%/-47%	+8%/-23%	+405%/-16%
Source	PHO1	FLK73	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 005894044-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-232 ± 31	$10.63^{+7.30}_{-6.45}$	1245^{+63}_{-134}	5504^{+3271}_{-1008}	287^{+1547}_{-186}
Alt.	-293 ± 43	$10.99^{+6.98}_{-5.62}$	1251^{+62}_{-155}	5700^{+2657}_{-1053}	344^{+1133}_{-221}

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 $A_{obs} \gg 1.0$

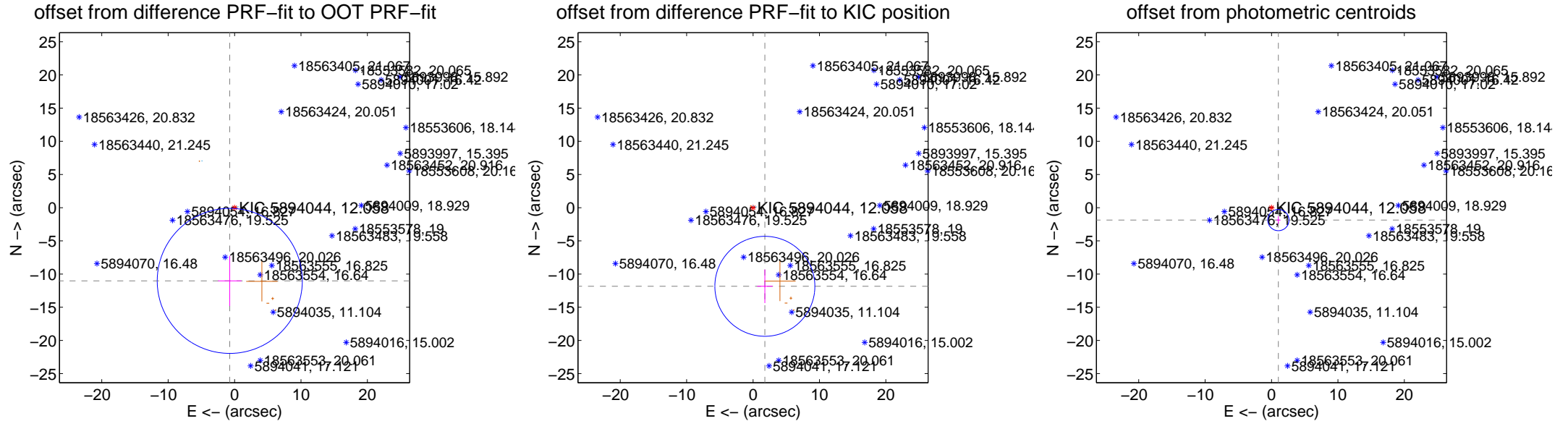
DV Centroid Data

Supplemental centroid analysis for 005894044-02. Kepler magnitude: 12.06. Transit SNR 10.74

There are 3 quarters with good PRF difference image offsets

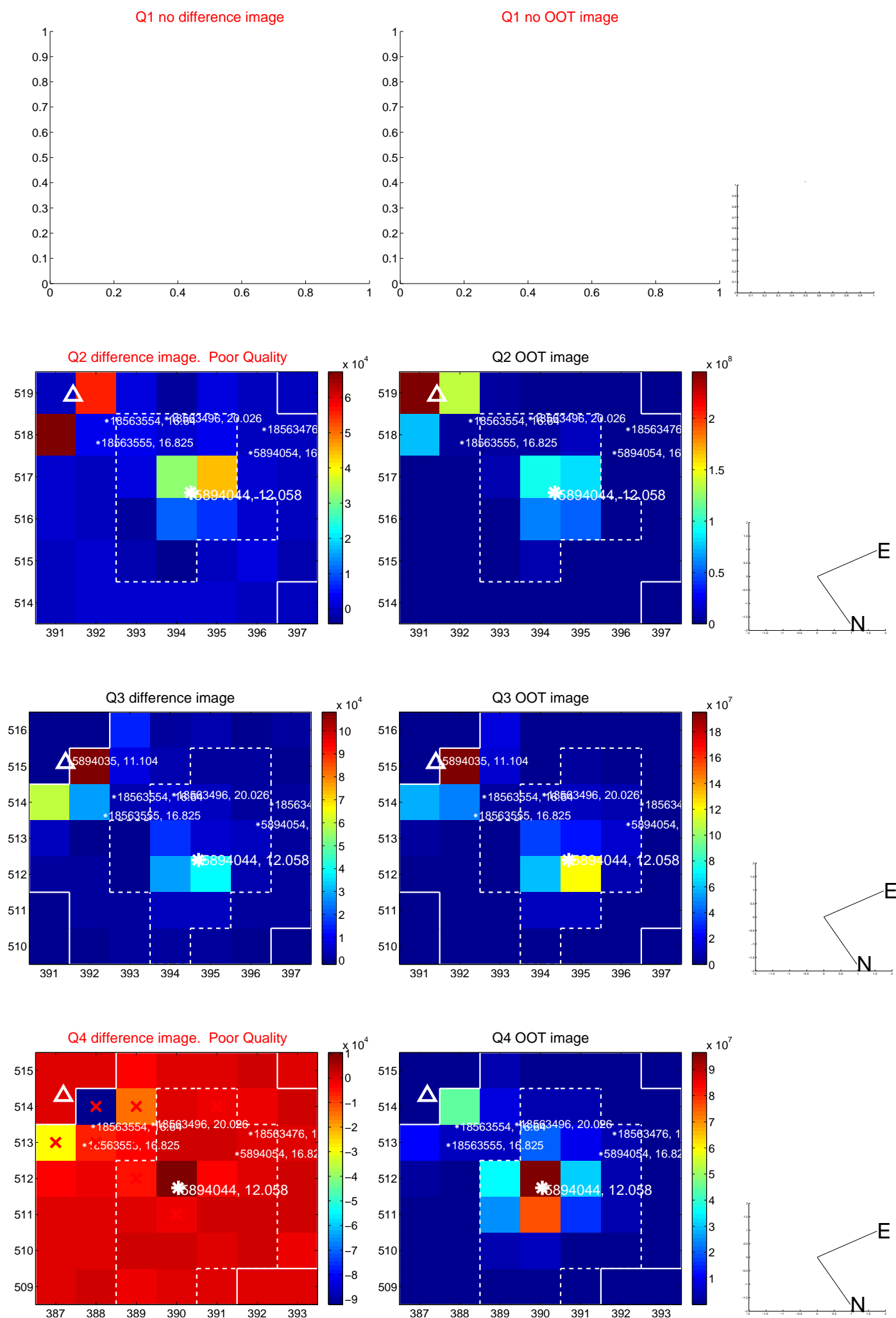
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	11.054 ± 3.642	3.03	0.724 ± 1.772	-11.030 ± 3.765
PRF-fit source offset from KIC position	11.979 ± 2.511	4.77	-1.779 ± 1.160	-11.846 ± 2.533
photometric centroid source offset	2.14 ± 0.53	4.01	-1.04 ± 0.34	-1.87 ± 0.58

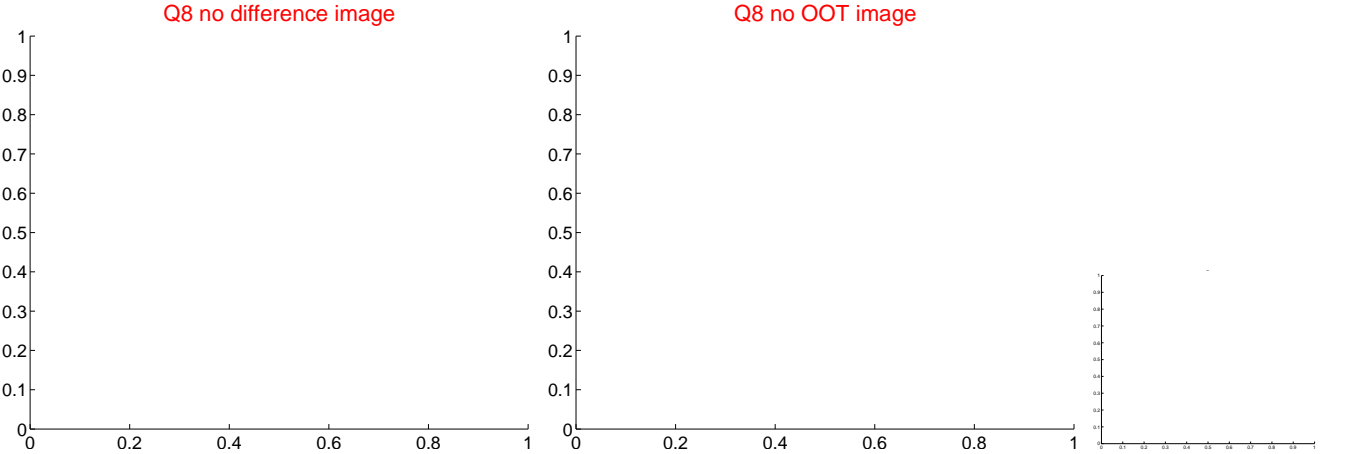
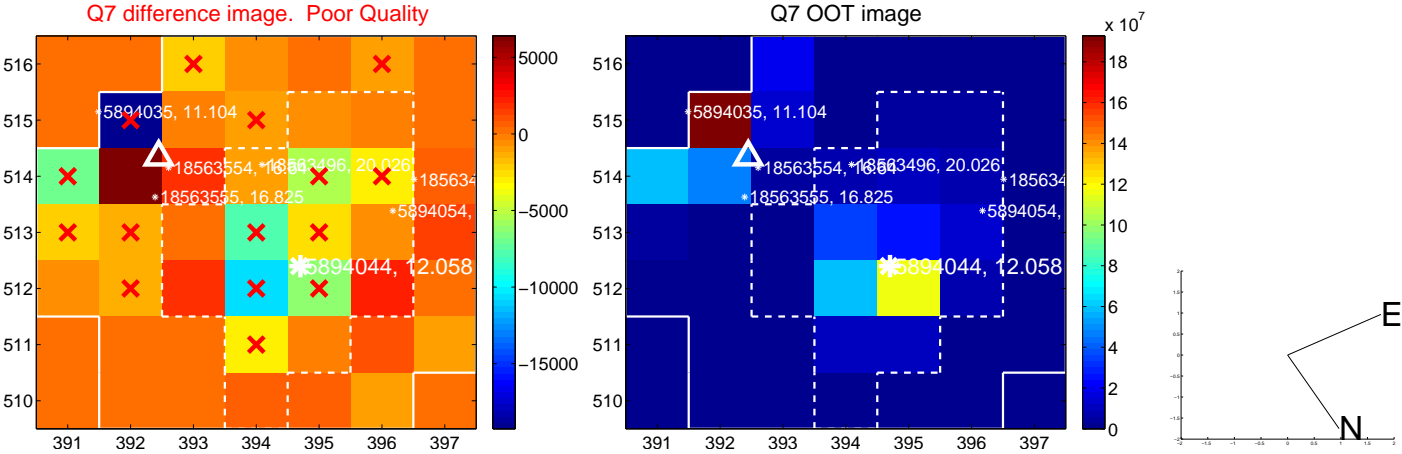
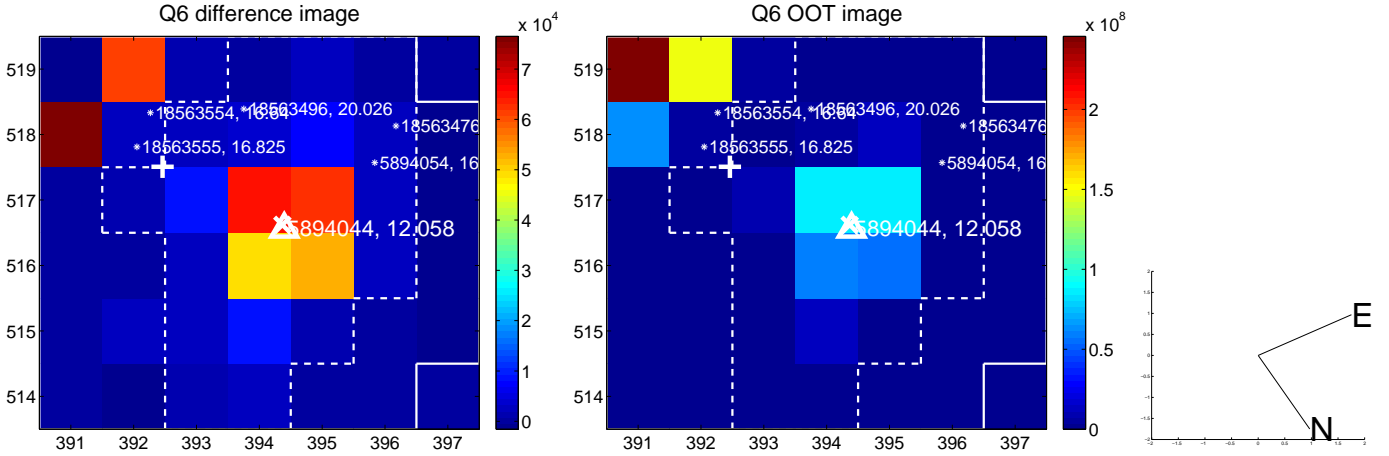
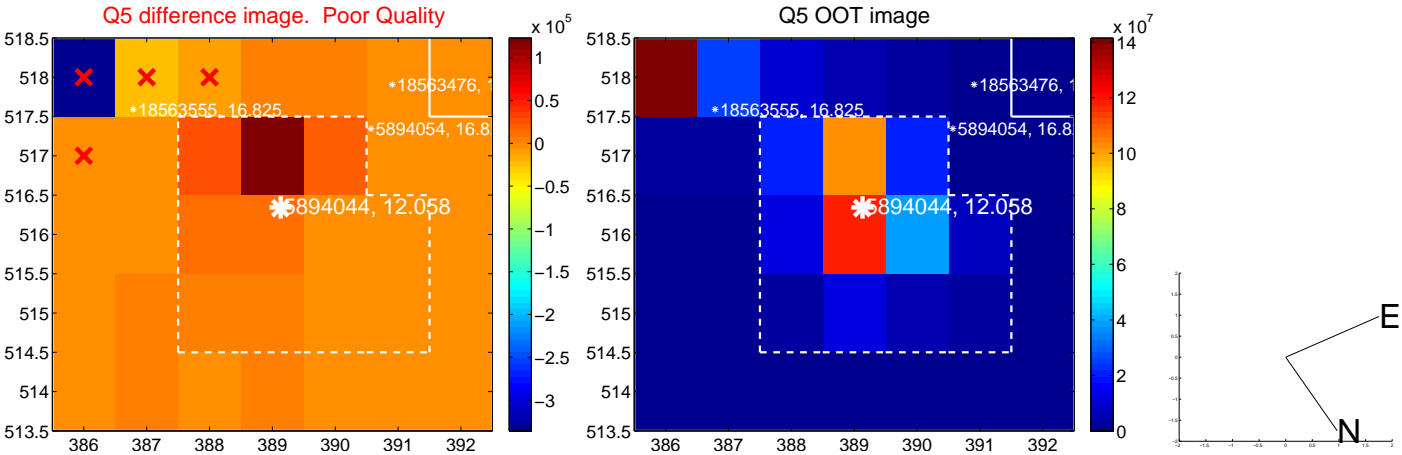


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

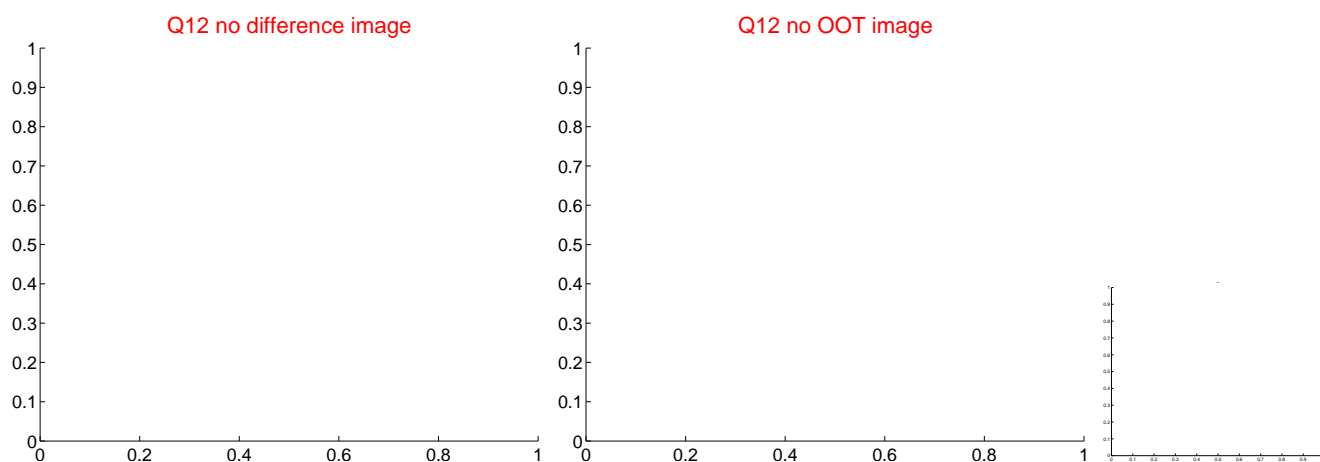
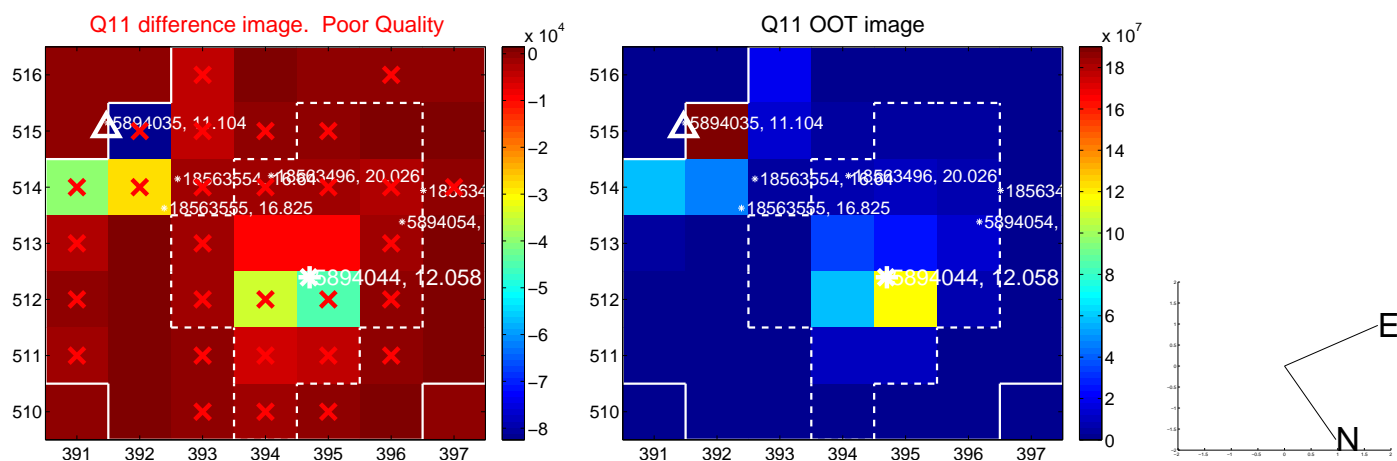
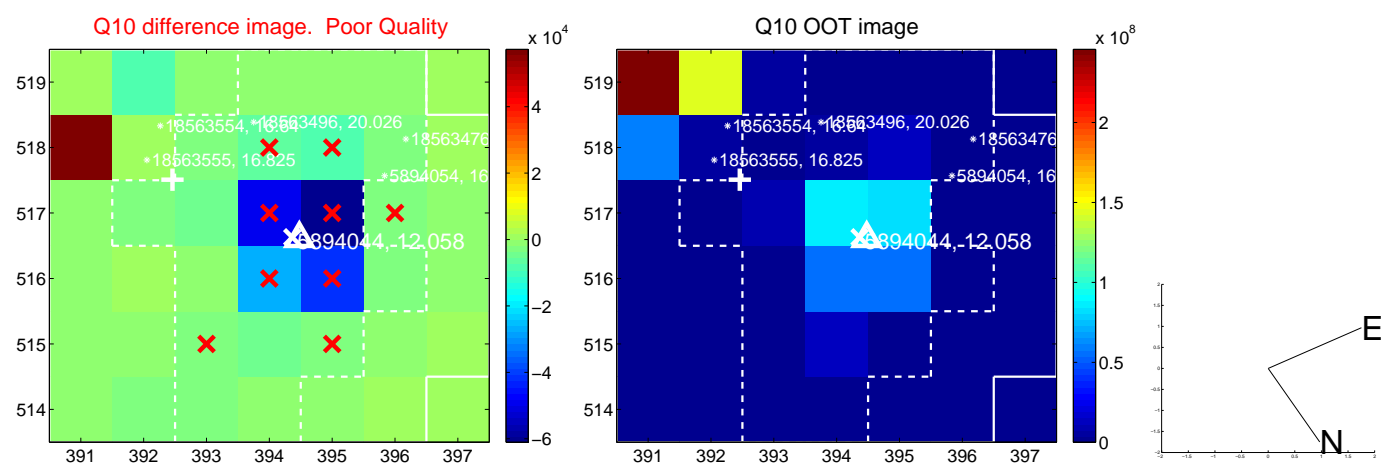
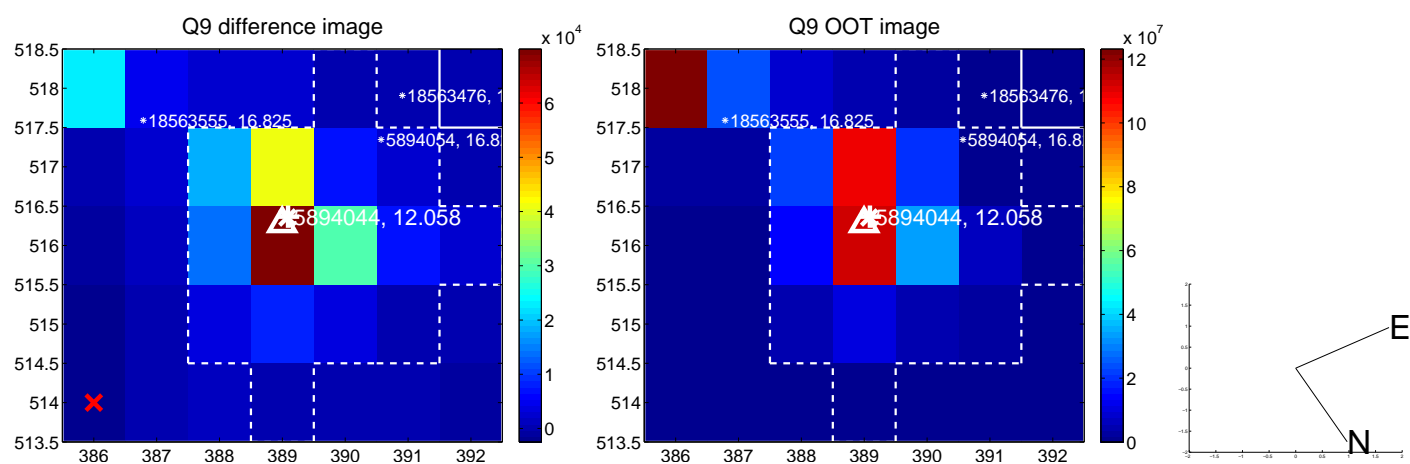
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



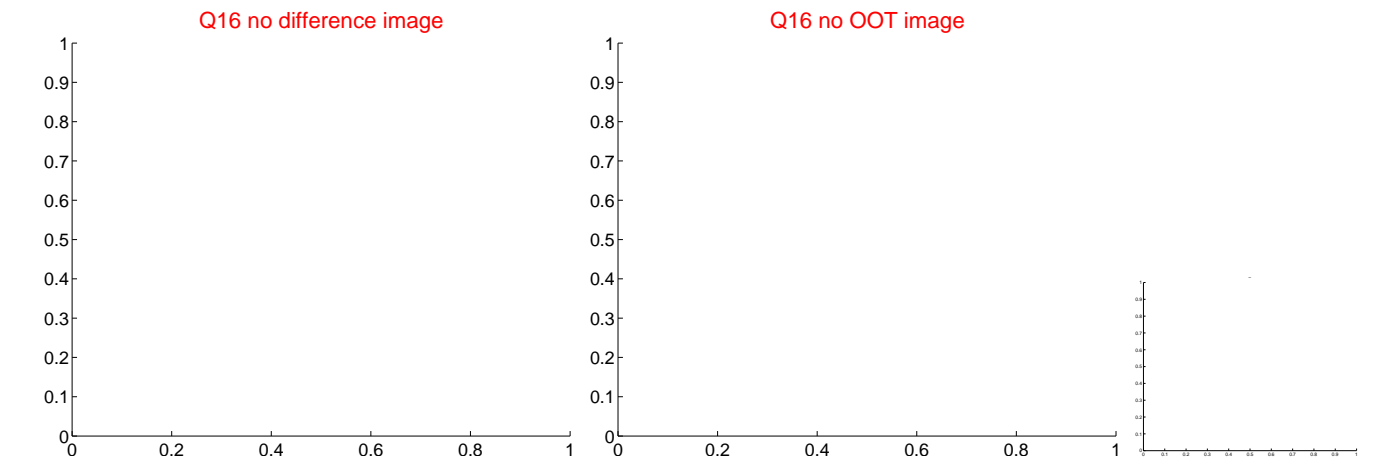
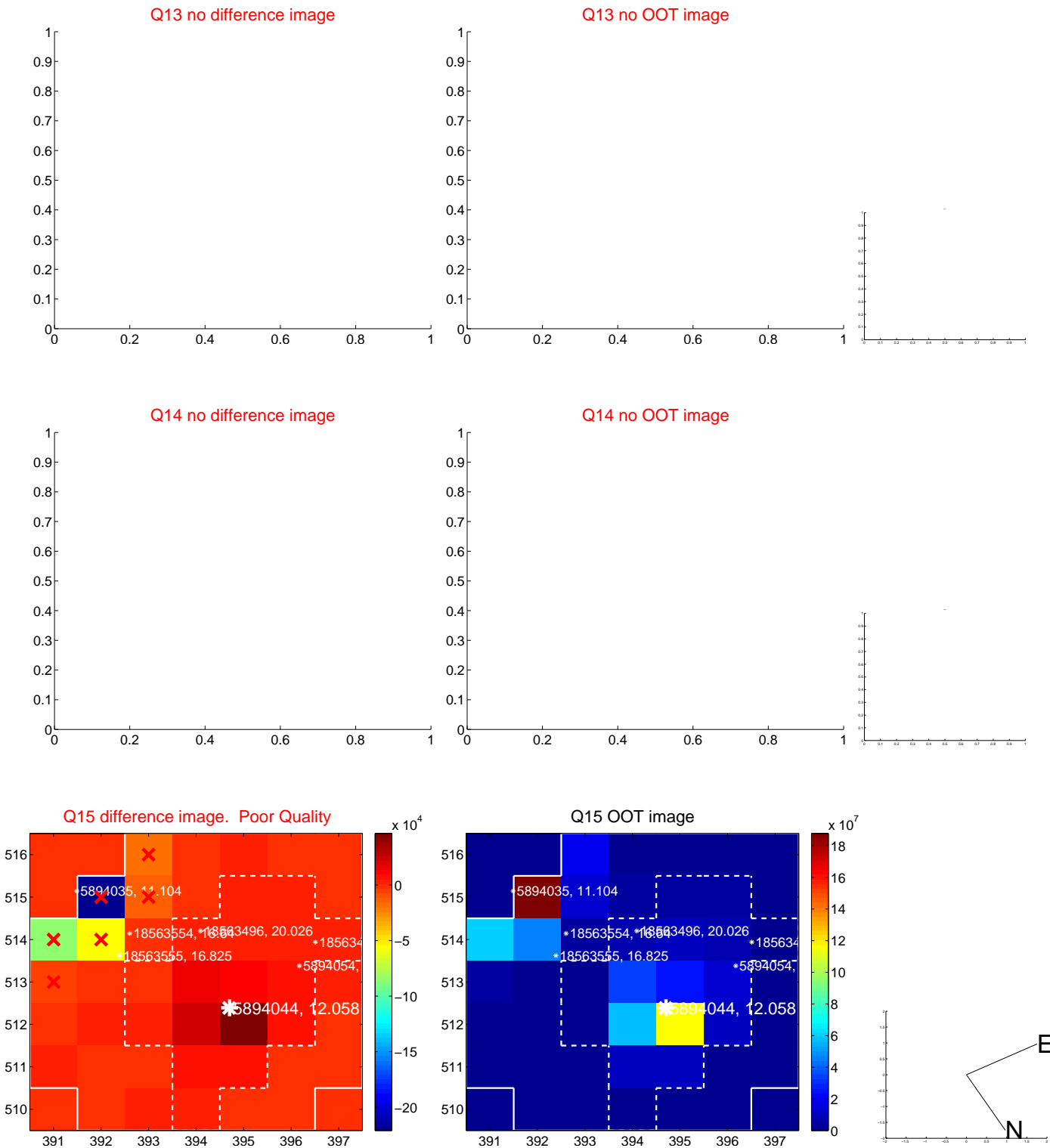
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



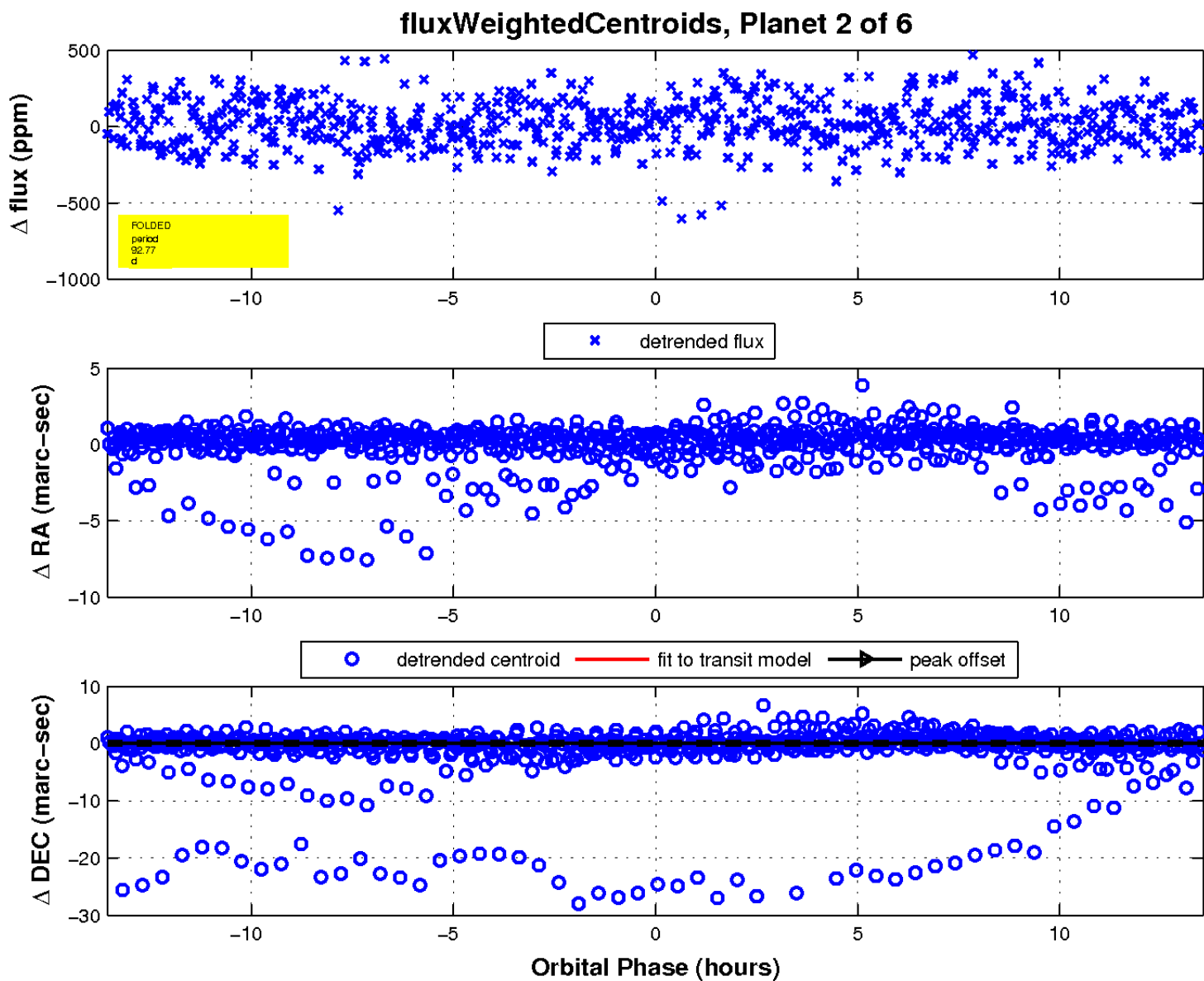
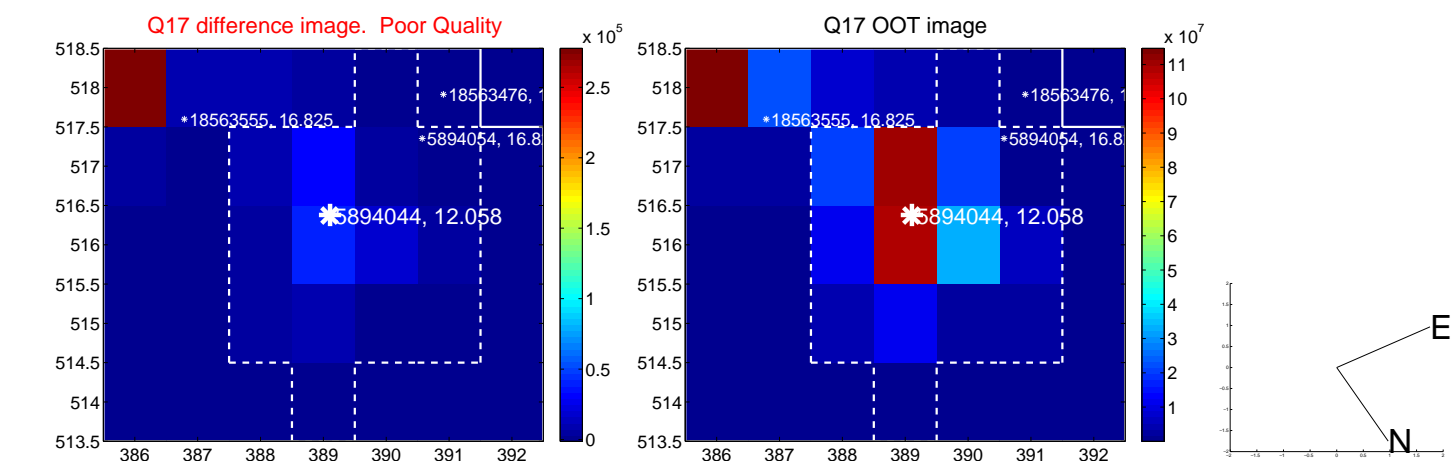
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

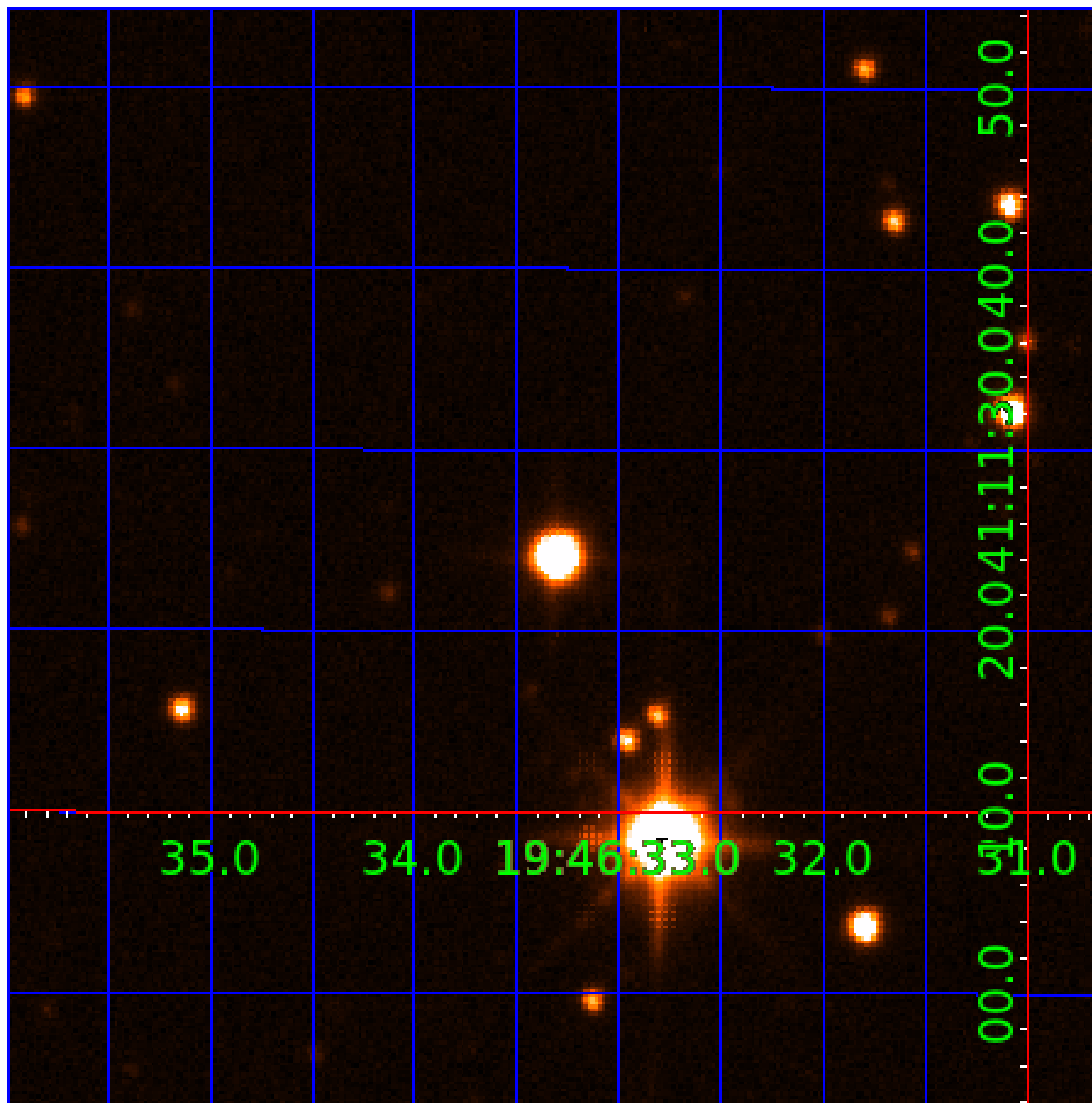


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005894044

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})
005894044-01	OBS	No	0.715134	132.228507	6.9	4.342	10.4	3.4	4.83	6748	1.28	0.00
005894044-02	OBS	No	92.770283	176.774813	472.5	4.523	13.7	10.7	4.83	6748	10.98	169.61
005894044-03	OBS	No	0.715156	131.769425	47.2	1.947	13.3	20.1	4.83	6748	3.35	0.00
005894044-05	OBS	No	9.525038	132.487894	350.6	1.016	10.9	8.5	4.83	6748	10.70	3527.74
005894044-06	OBS	No	8.895671	136.212688	214.9	2.213	8.1	8.8	4.83	6748	7.27	3864.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005894044-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005894044-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_RESOLVED_OFFSET
005894044-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
005894044-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET
005894044-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

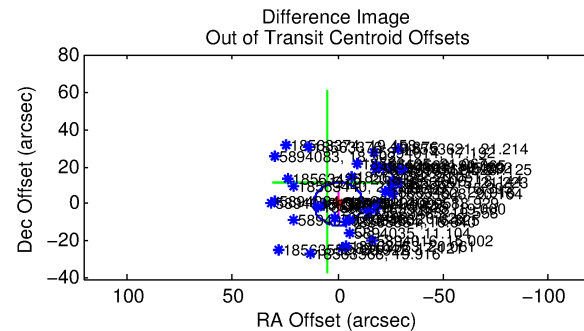
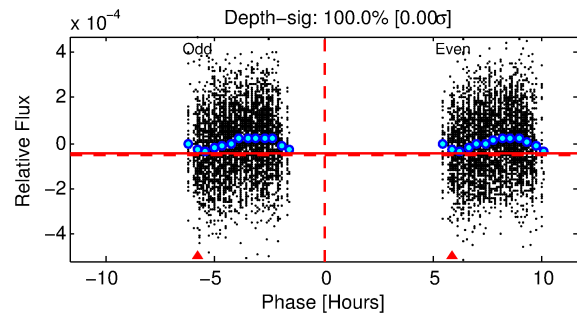
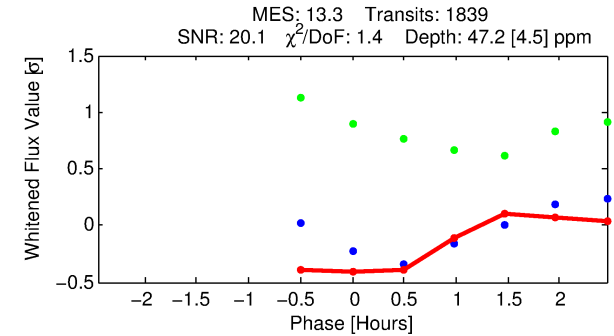
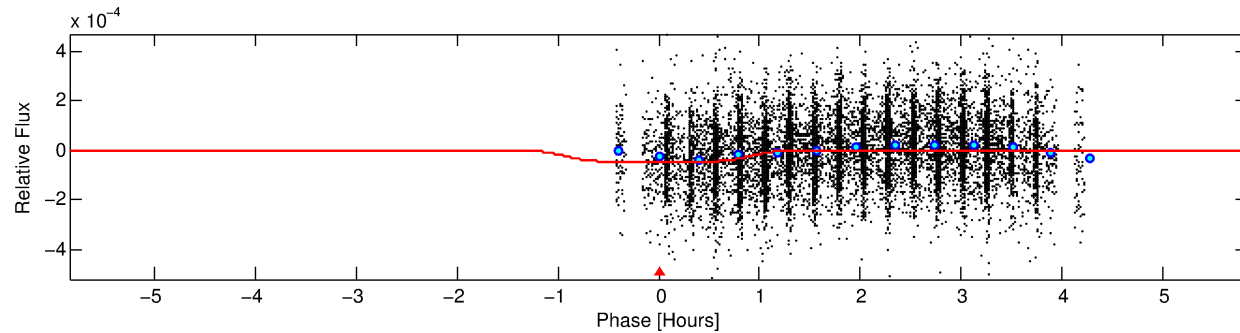
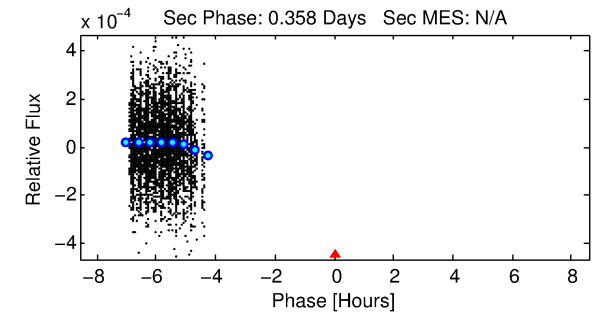
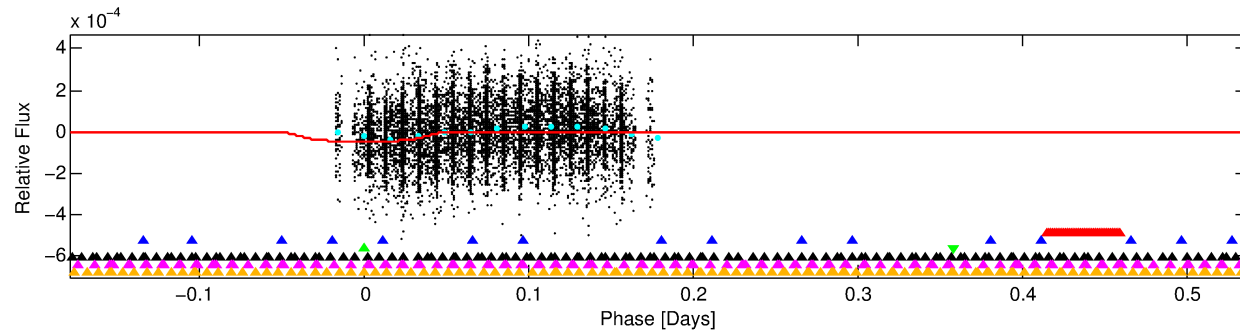
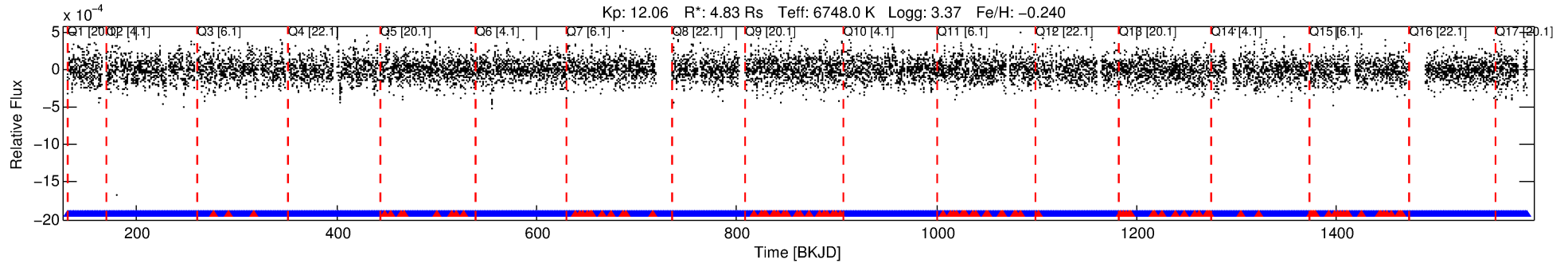
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005894044-03

No Significant Match Found

DV One-Page Summary

KIC: 5894044 Candidate: 3 of 6 Period: 0.715 d



DV Fit Results:

Period = 0.71516 [0.00001] d
Epoch = 131.7694 [0.0021] BKJD
Rp/R* = 0.0064 [0.0040]
a/R* = 2.87 [8.70]
b = 0.10 [34.17]
Seff = N/A
Teq = N/A
Rp = 3.35 [2.65] Re
a = N/A

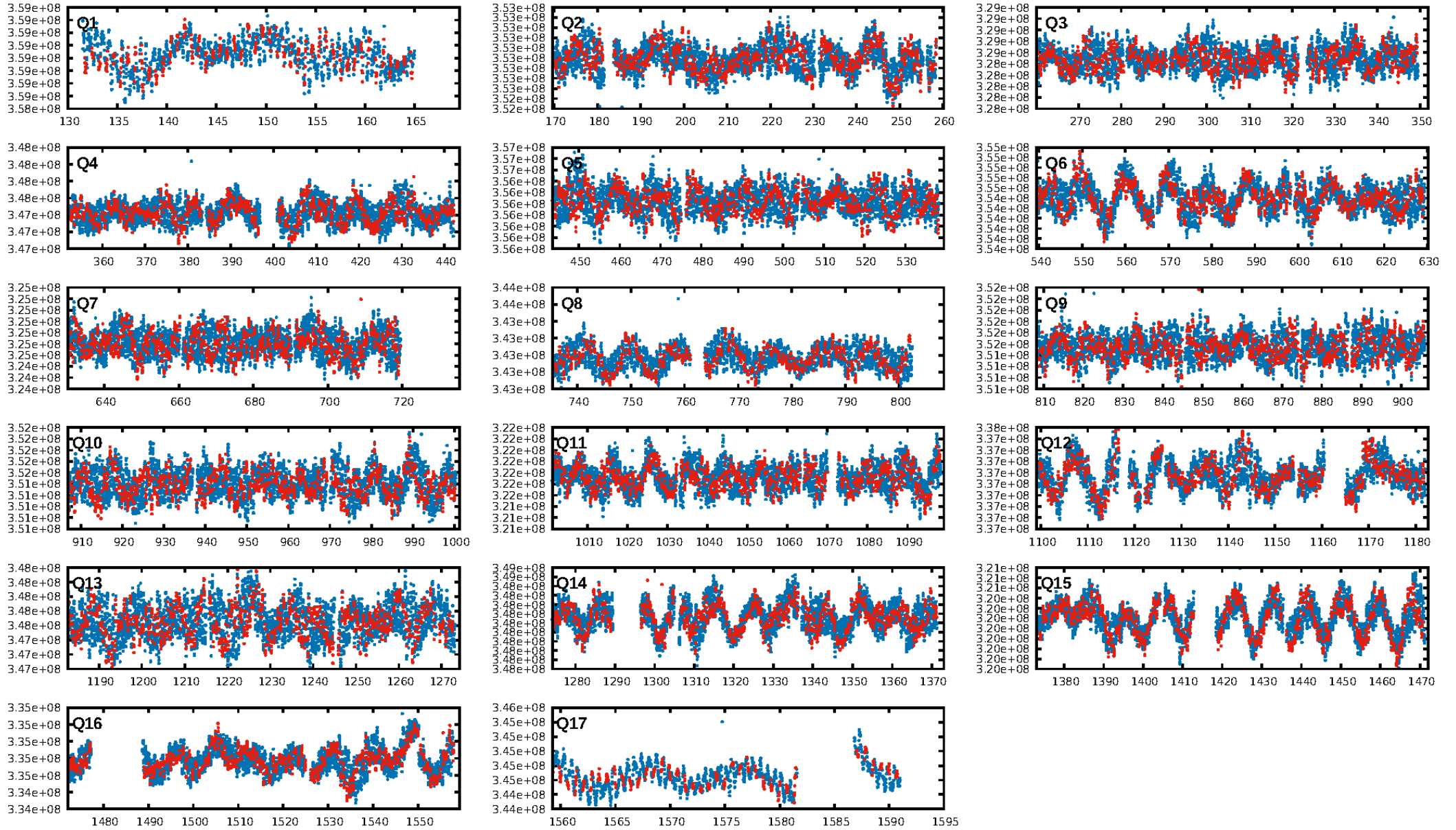
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [66.61σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 8.26e-29
RollingBand-fgt: 0.94 [1659/1756]
GhostDiagnostic-chr: -1.462
Centroid-sig: N/A
Centroid-so: 1.501 arcsec [3.25σ]
OotOffset-rm: 0.237 arcsec [0.06σ]
KicOffset-rm: 0.179 arcsec [0.05σ]
OotOffset-st: 1/3/3/1 [8]
KicOffset-st: 1/3/3/1 [8]
DiffImageQuality-fgm: 0.75 [6/8]
DiffImageOverlap-fno: 0.00 [0/17]

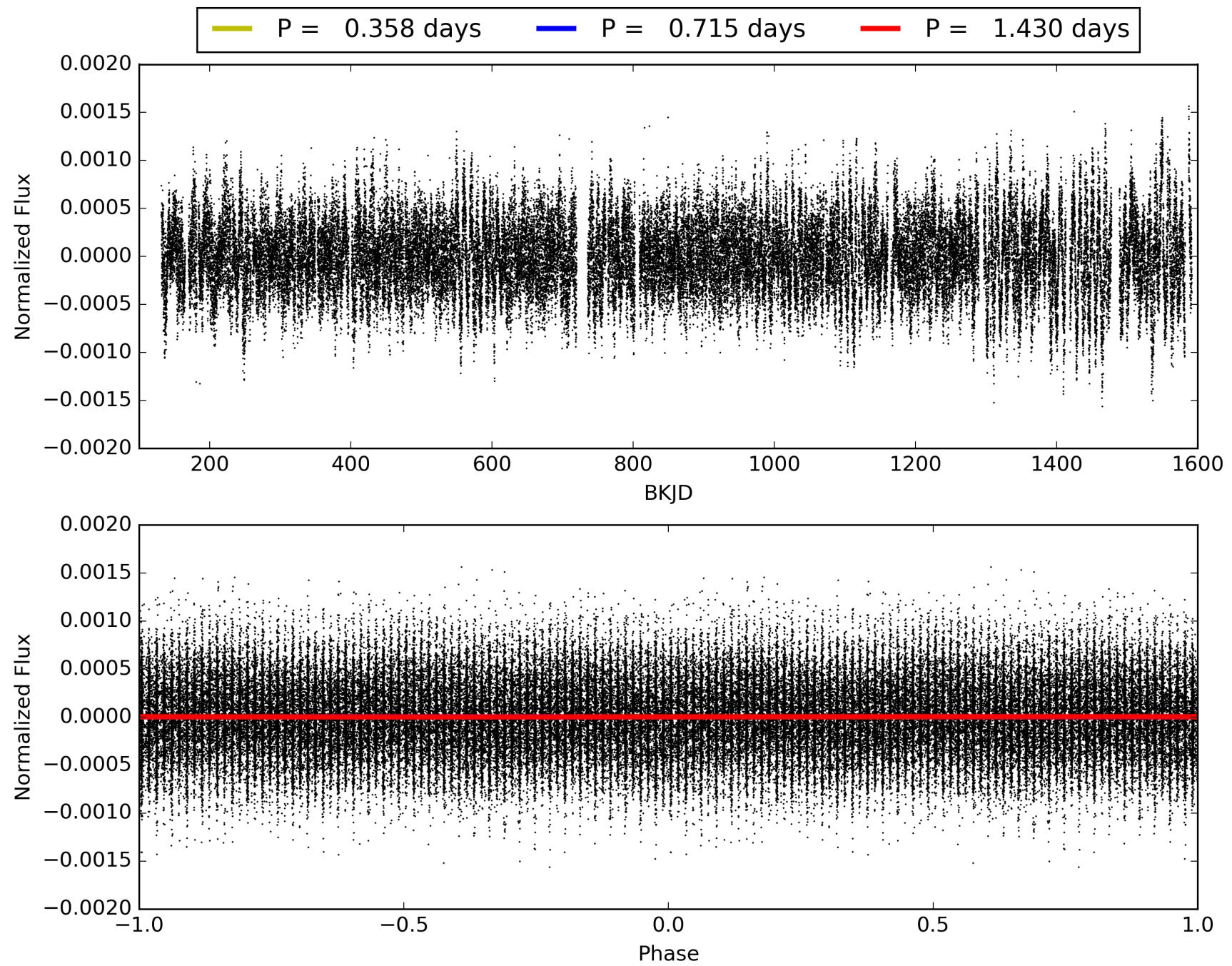
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:29:48 Z

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

TCE 005894044-03, PDC Light Curves

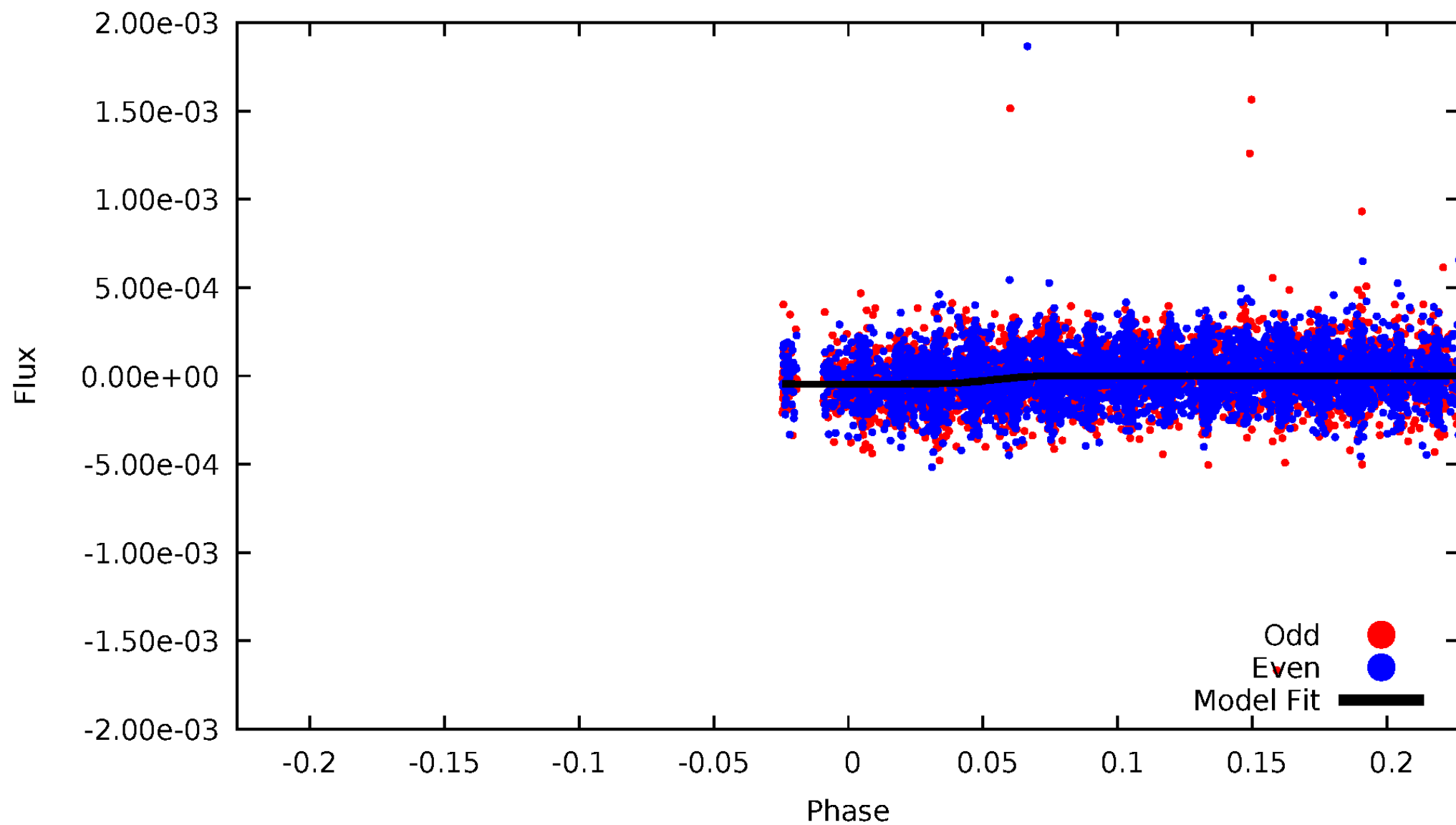


TCE 005894044-03



DV Odd/Even

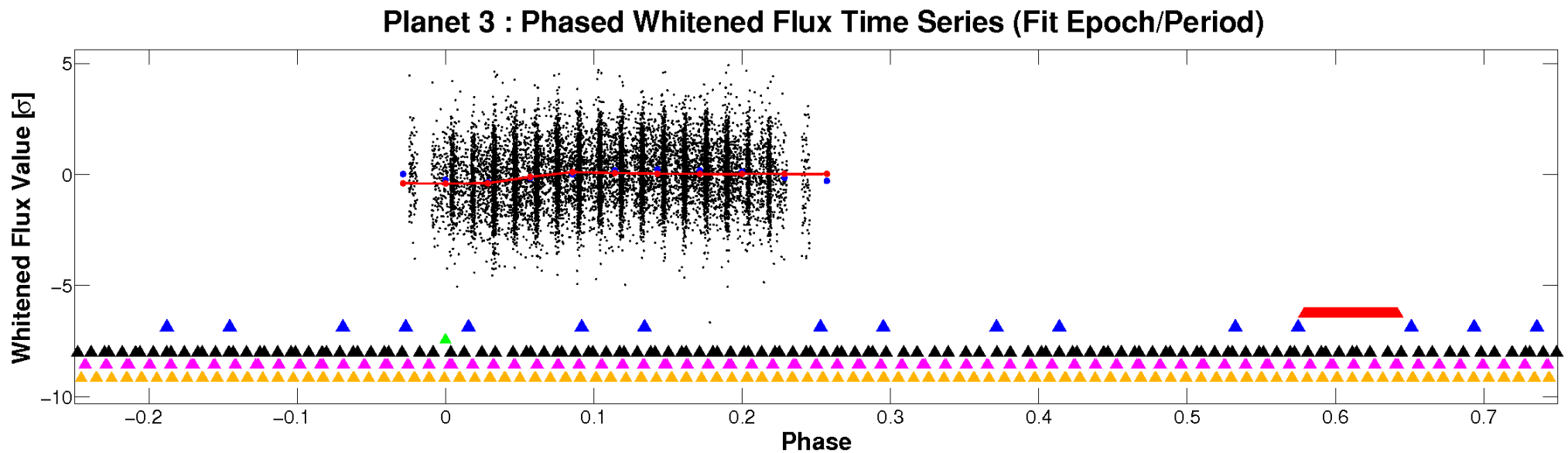
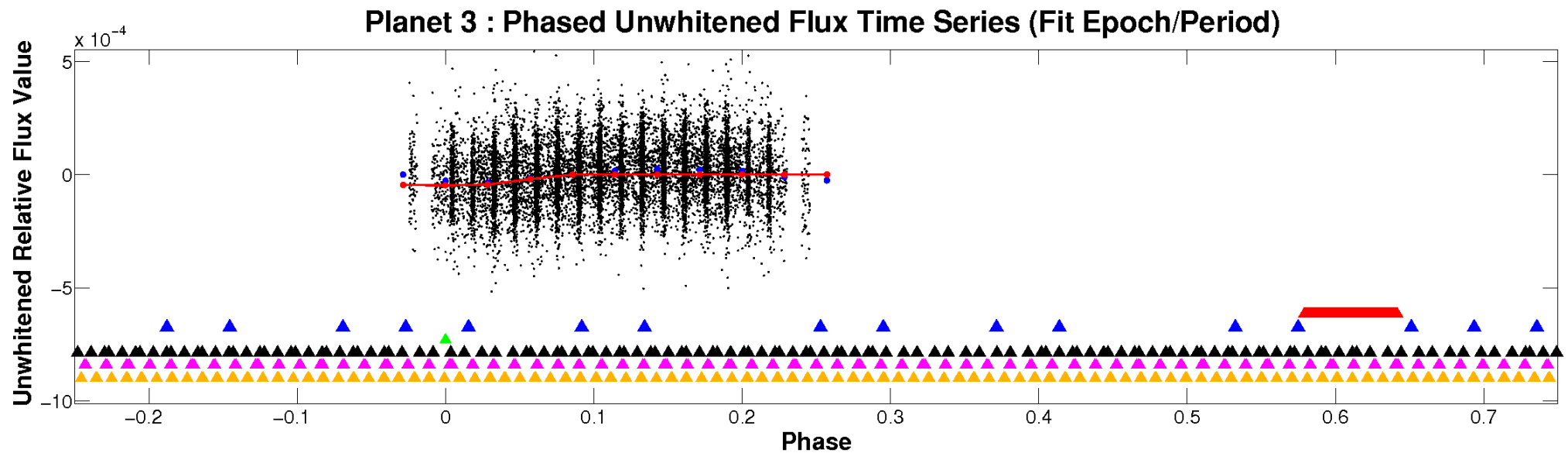
TCE 005894044-03



ALT Odd/Even

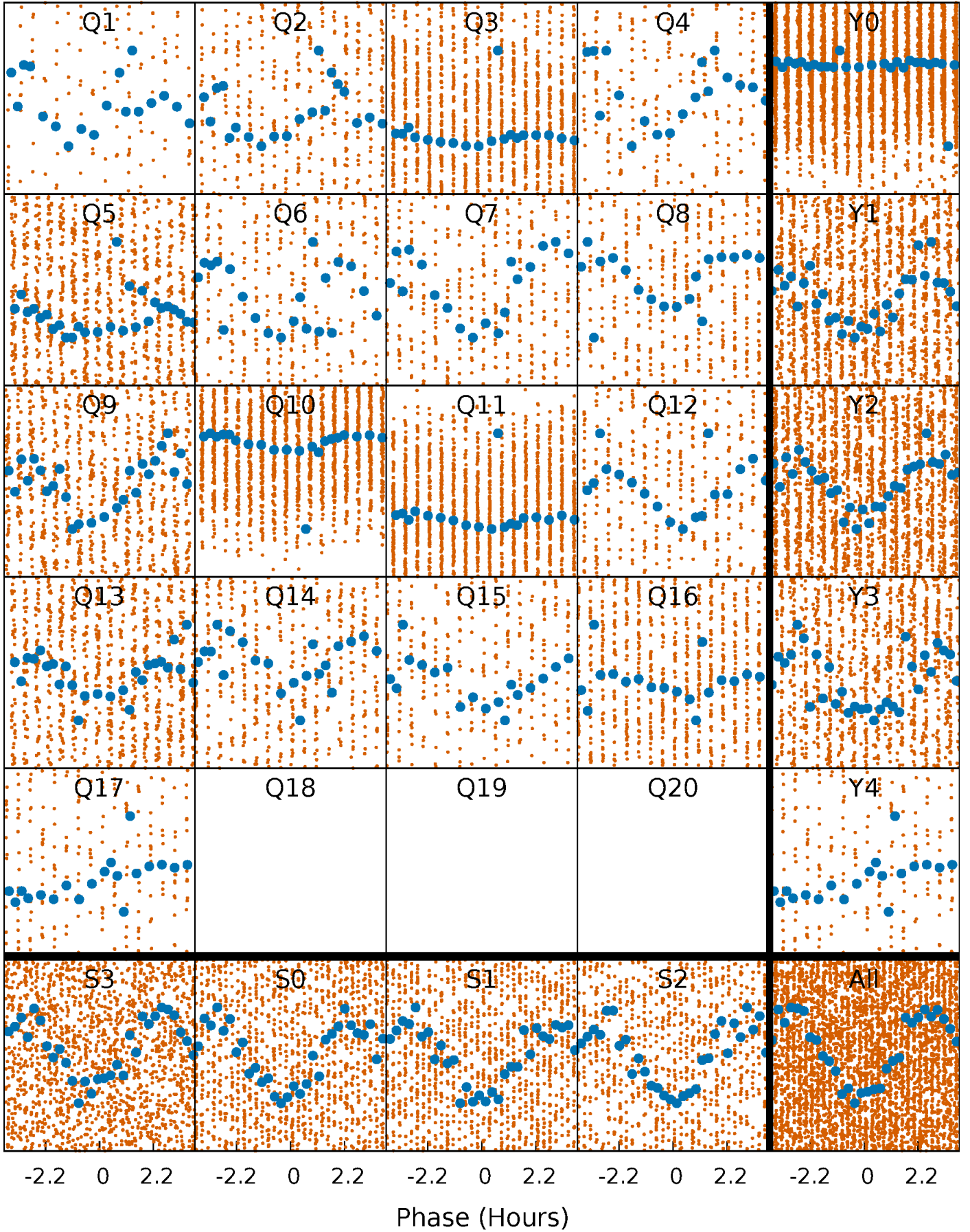
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



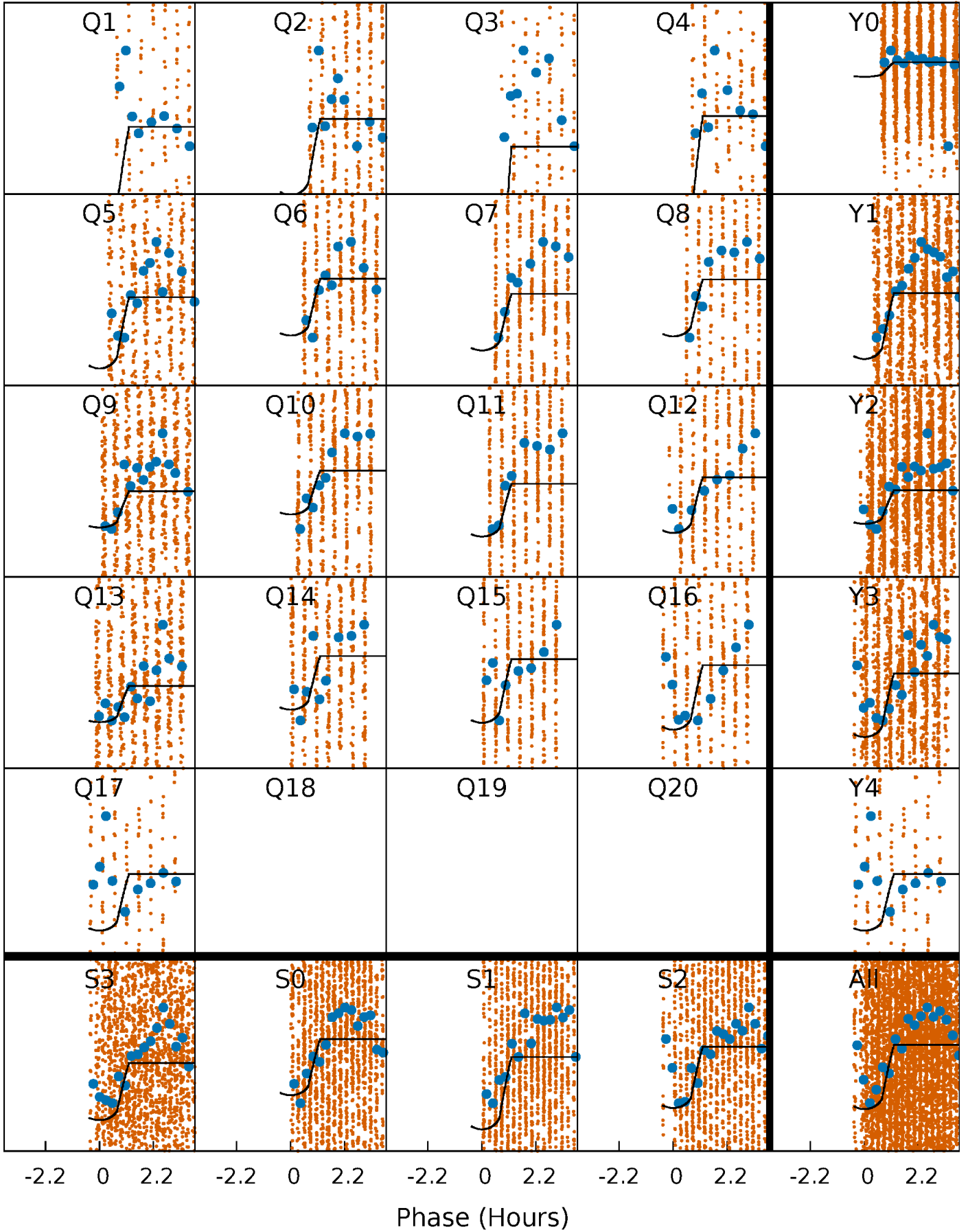
PDC Quarter-Phased Transit Curves

TCE 005894044-03 $P = 0.715156$ Days $T_0 = 131.769425$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005894044-03 P= 0.715156 Days $T_0=131.769425$ (BKJD)

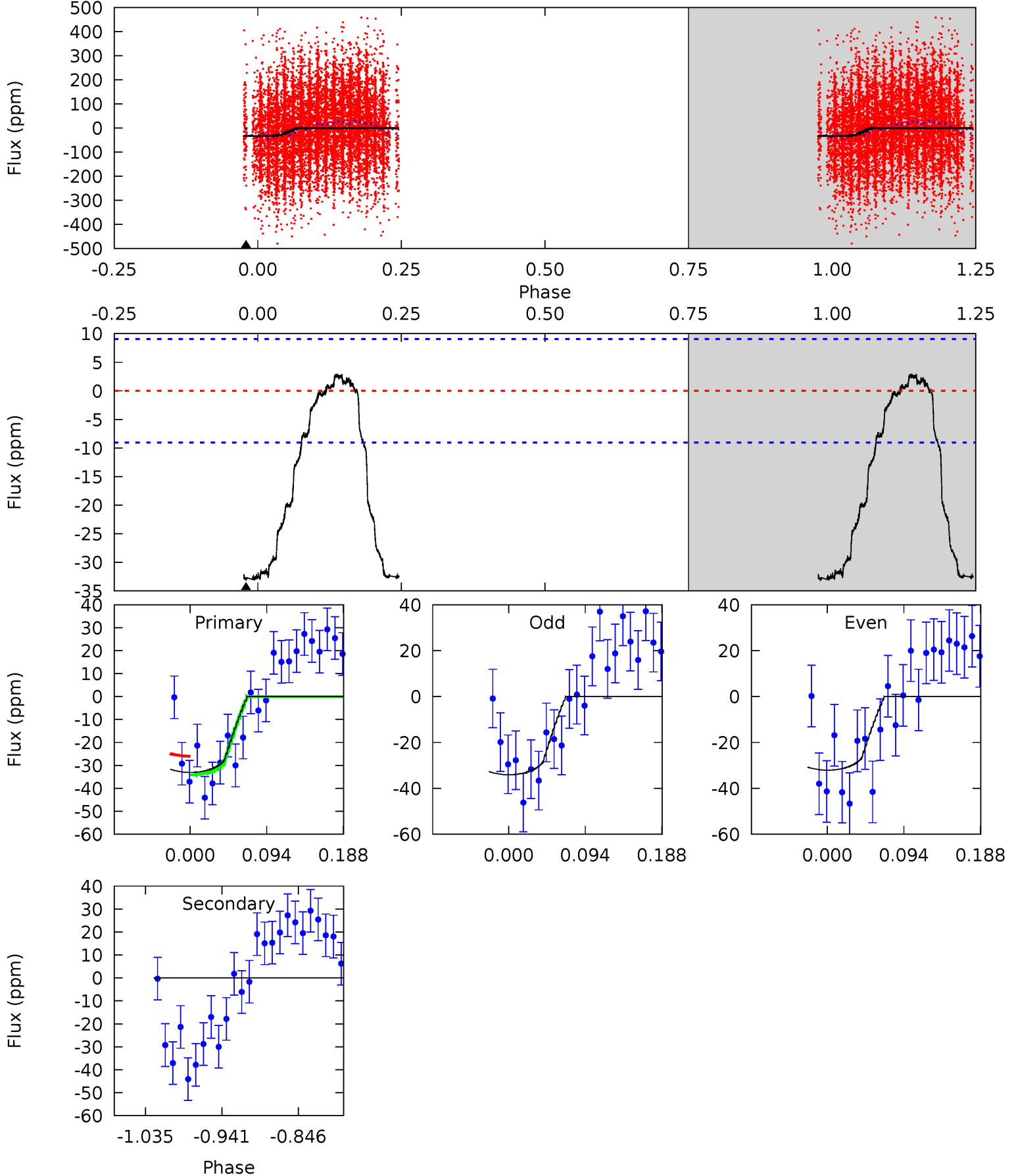


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005894044-03, P = 0.715156 Days, E = 131.769425 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.7	0	0	0	4.58	1.67	5.96	16.7	16.7	0	0	0.51	0.95	0.08	1.05



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005894044

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6748^{+162}_{-202}	$3.371^{+0.456}_{-0.048}$	$-0.240^{+0.300}_{-0.250}$	$4.826^{+0.254}_{-2.285}$	$1.998^{+0.152}_{-0.455}$	$0.025^{+0.101}_{-0.004}$
	+2%/-3%	+14%/-1%	+125%/-104%	+5%/-47%	+8%/-23%	+405%/-16%
Source	PHO1	FLK73	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 005894044-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 2	$3.15^{+2.02}_{-1.72}$	6335^{+298}_{-699}	-5226^{+657}_{-324}	$0.001^{+0.054}_{-0.057}$
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 $A_{obs} \gg 1.0$

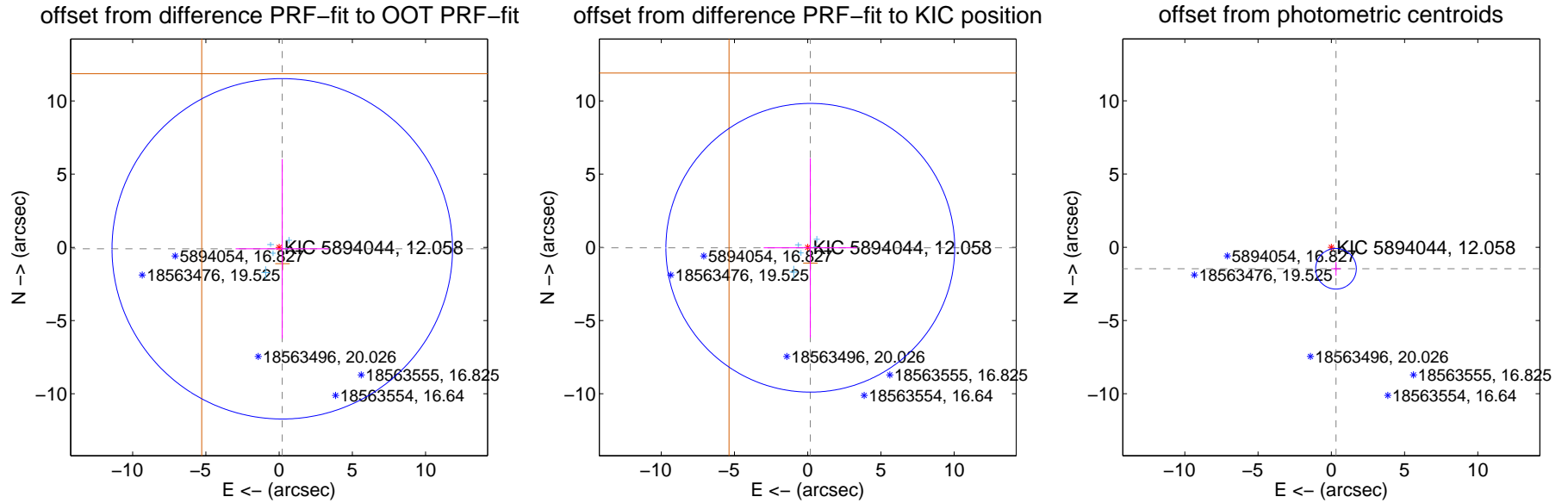
DV Centroid Data

Supplemental centroid analysis for 005894044-03. Kepler magnitude: 12.06. Transit SNR 20.14

There are 6 quarters with good PRF difference image offsets

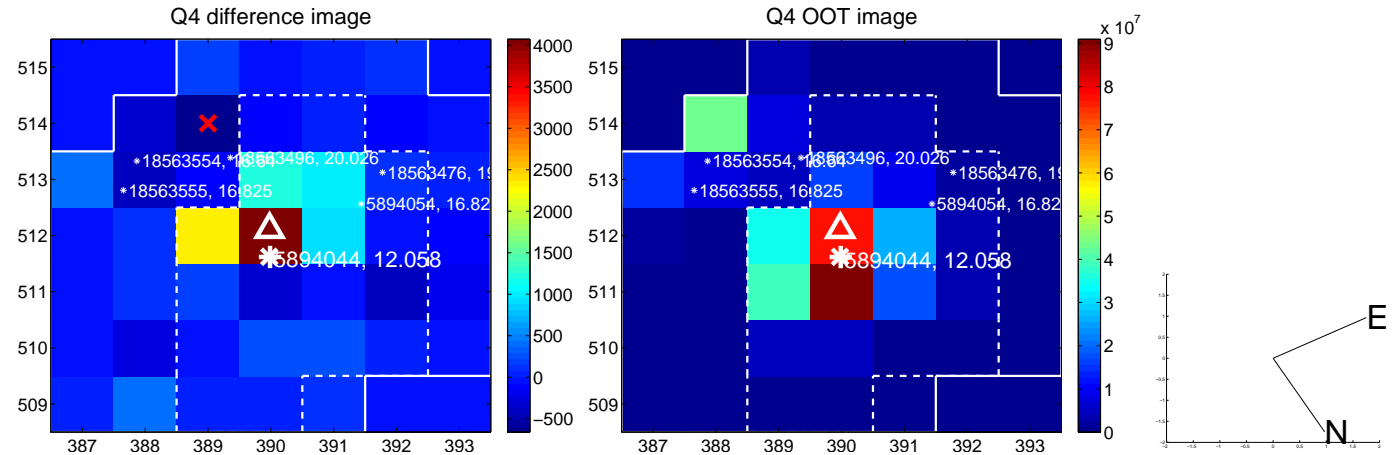
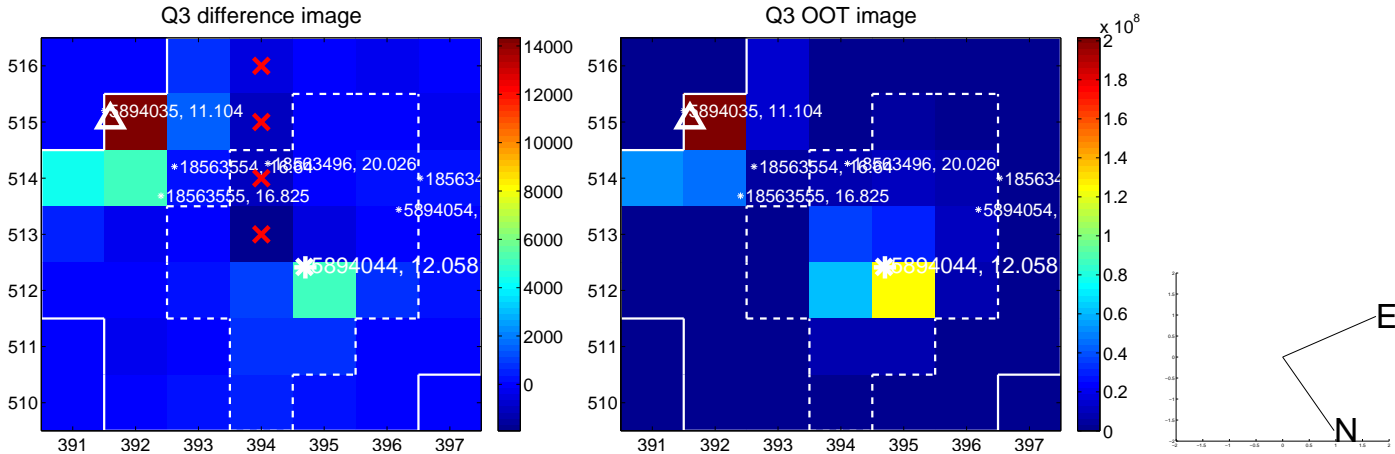
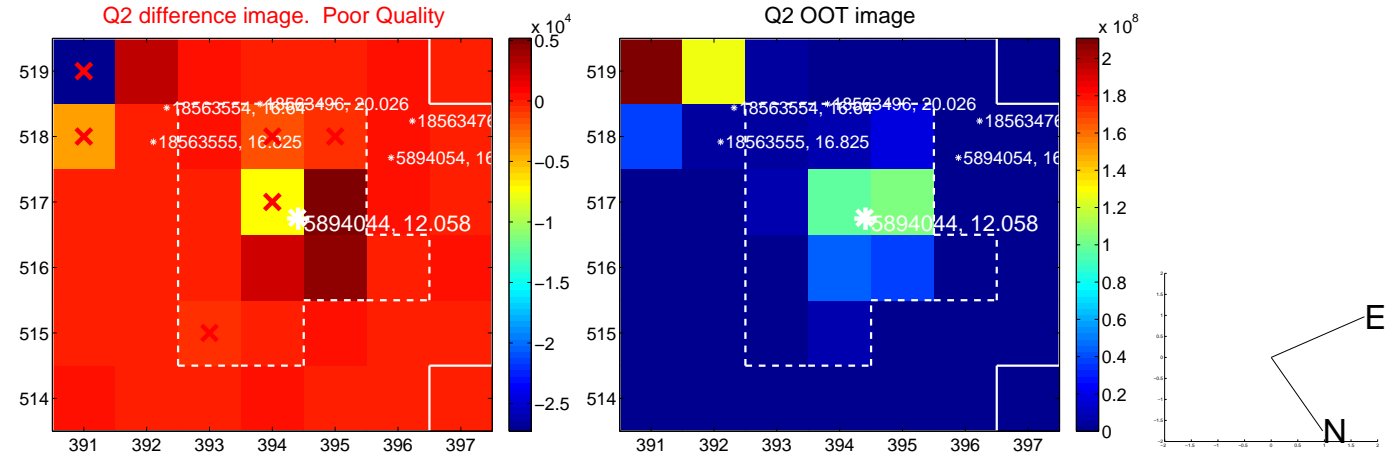
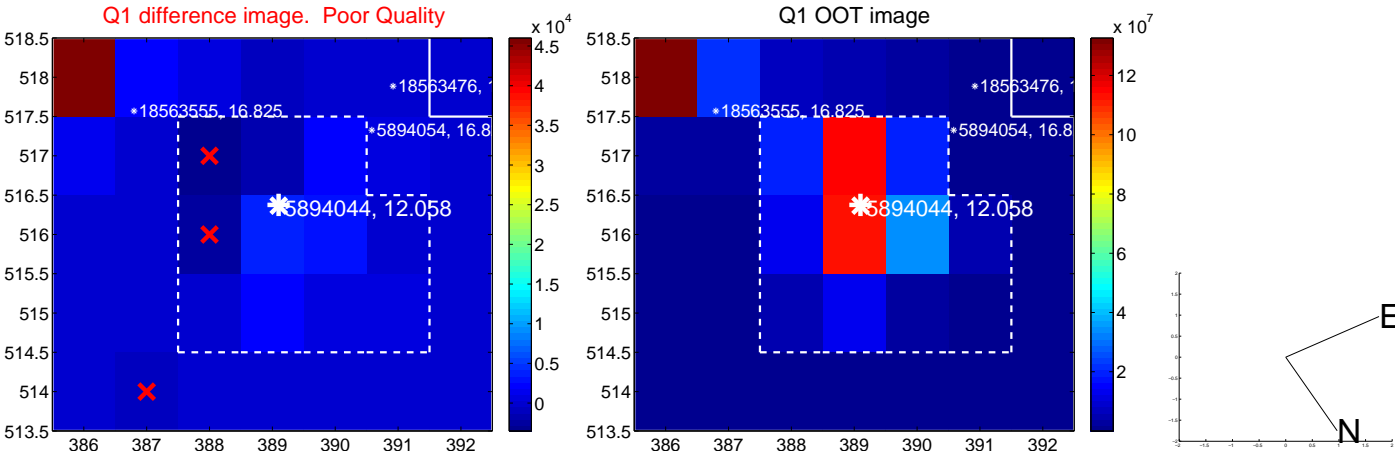
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.237 ± 3.876	0.06	-0.215 ± 3.183	-0.100 ± 6.131
PRF-fit source offset from KIC position	0.179 ± 3.287	0.05	-0.177 ± 3.183	-0.028 ± 6.131
photometric centroid source offset	1.50 ± 0.46	3.25	-0.32 ± 0.33	-1.47 ± 0.47

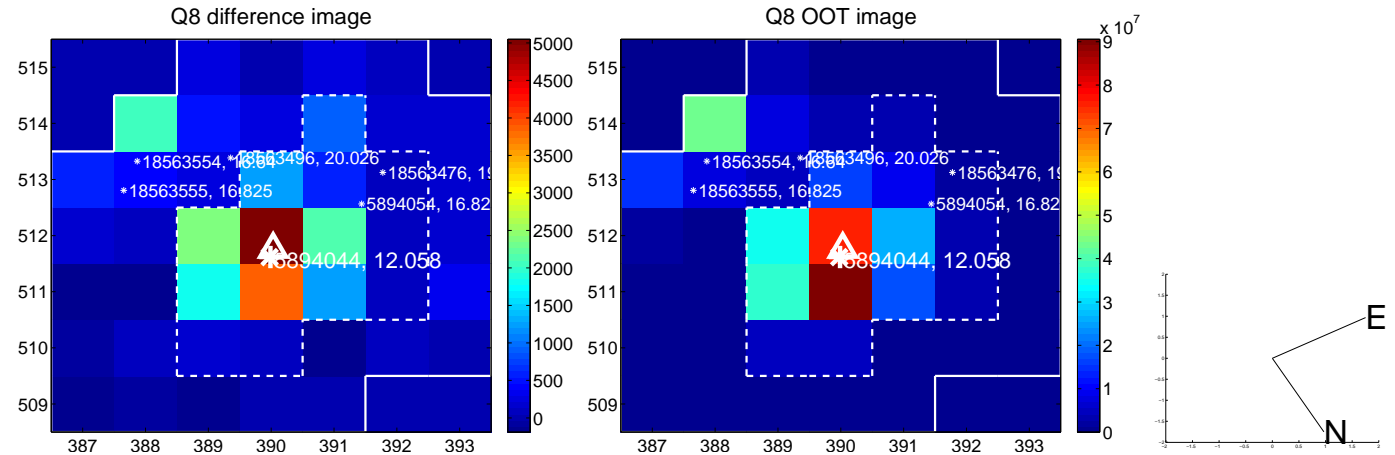
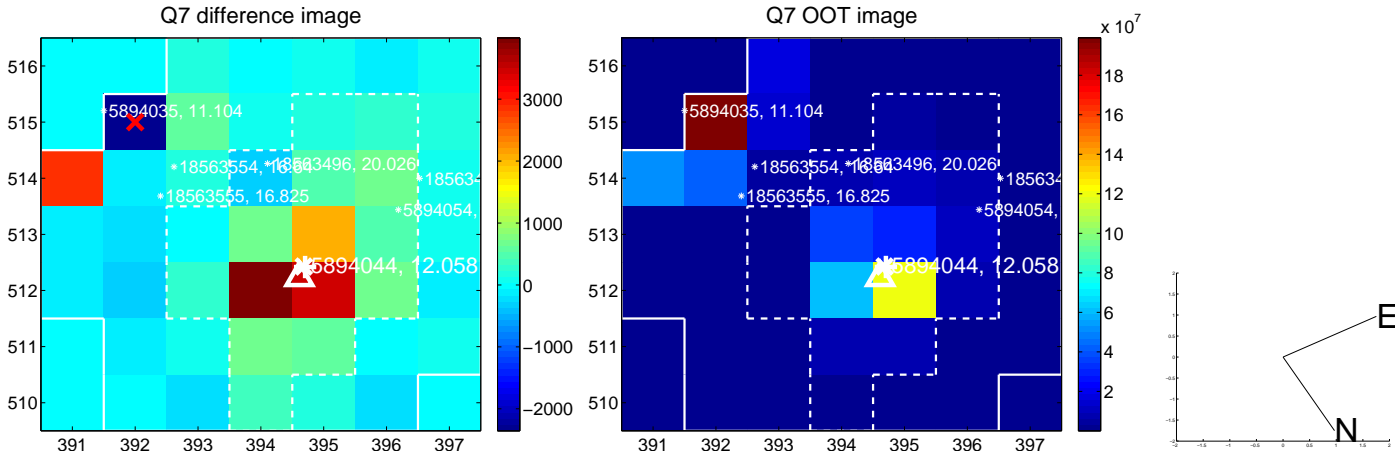
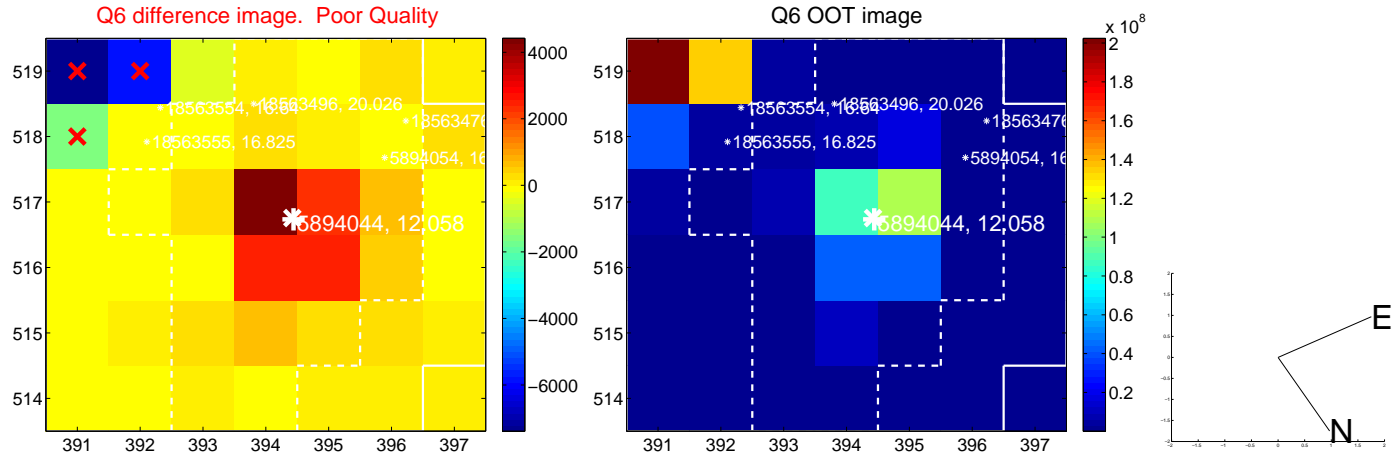
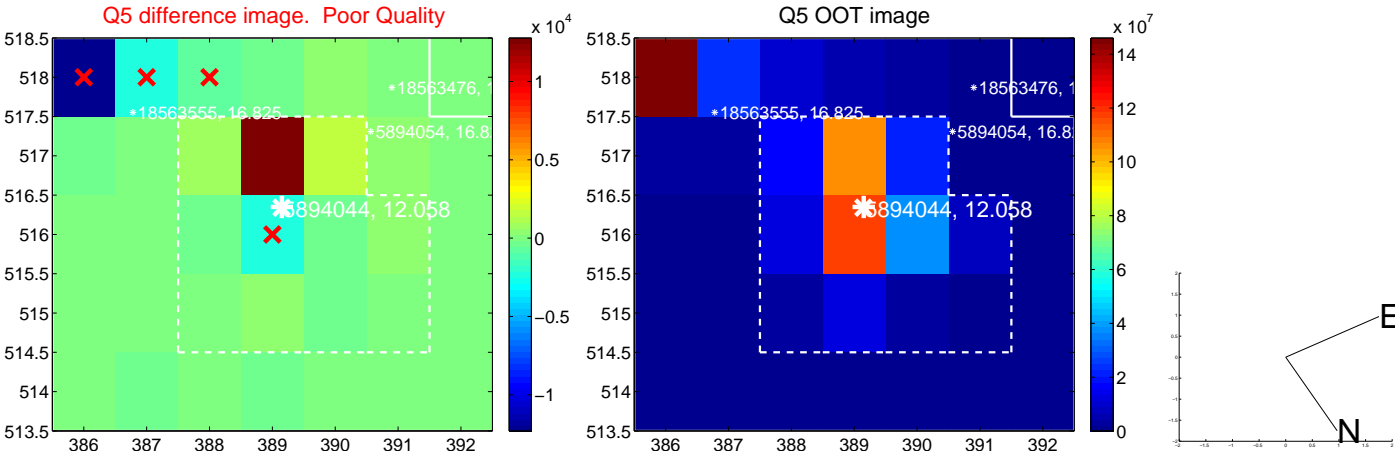


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

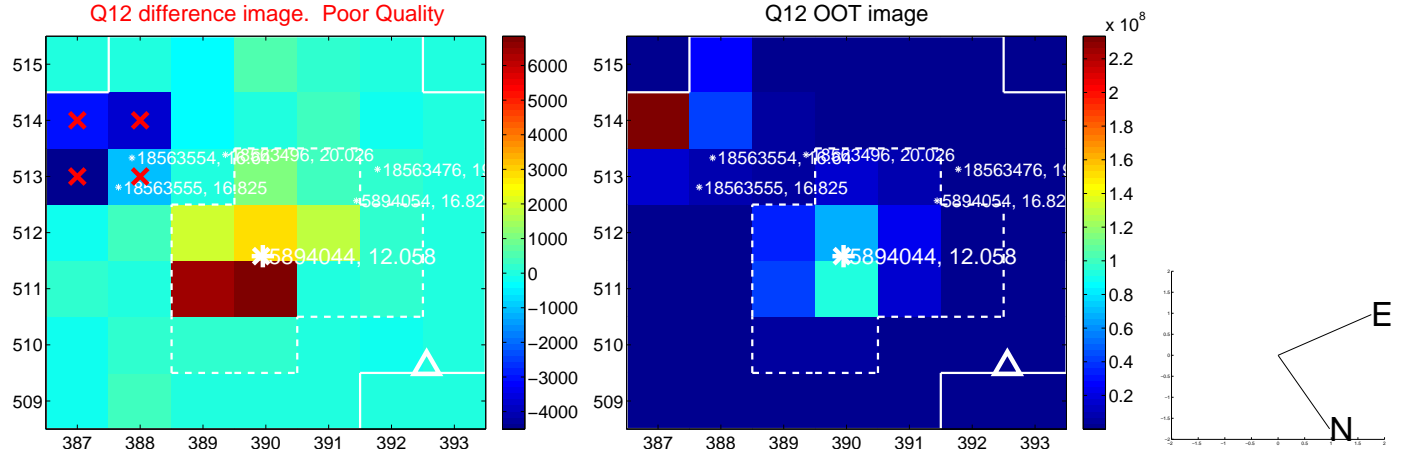
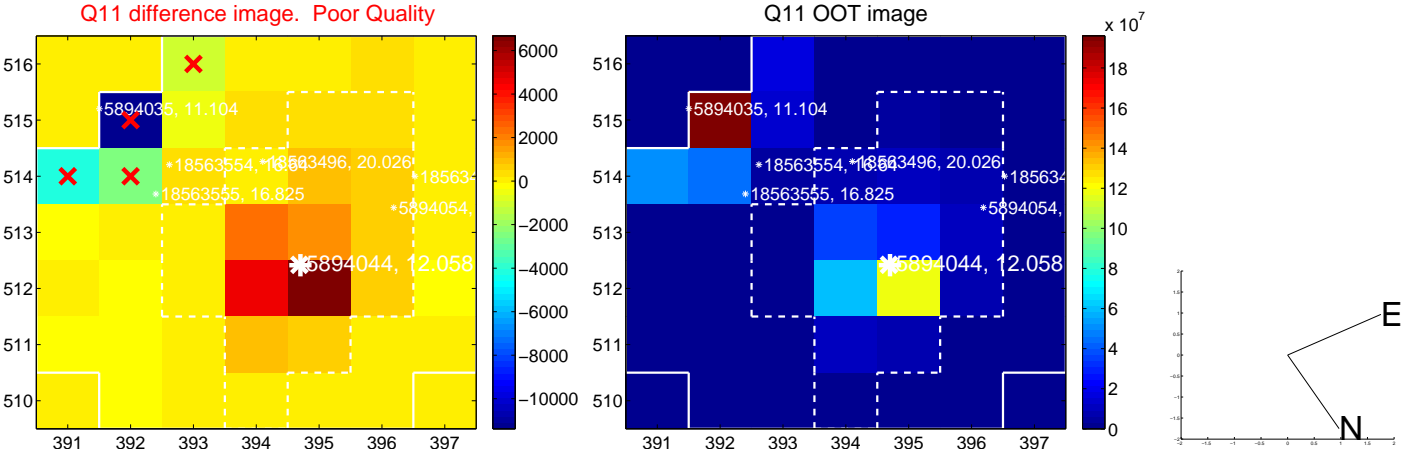
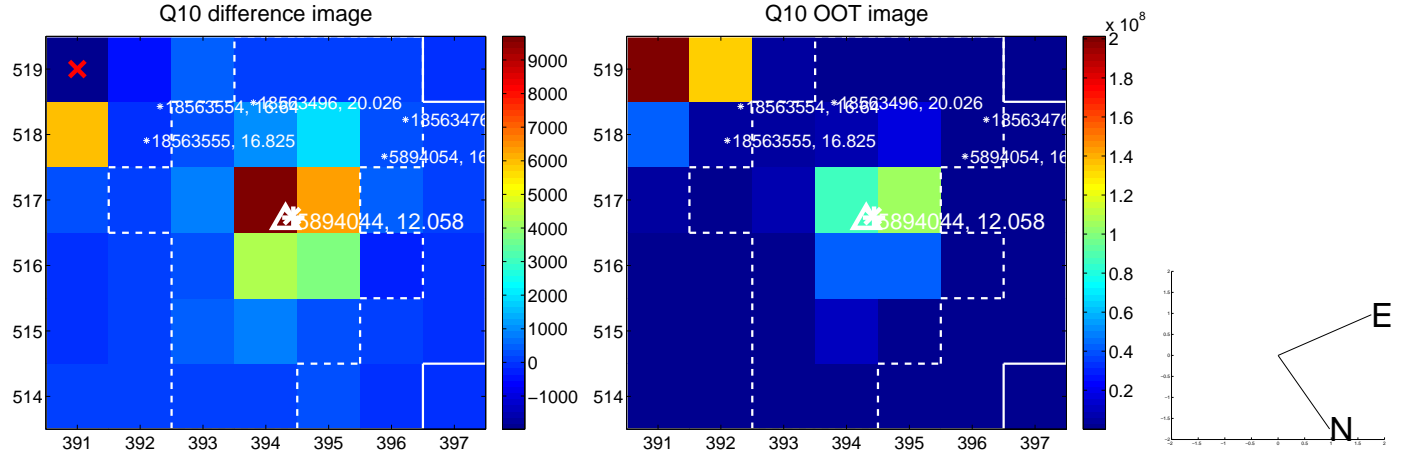
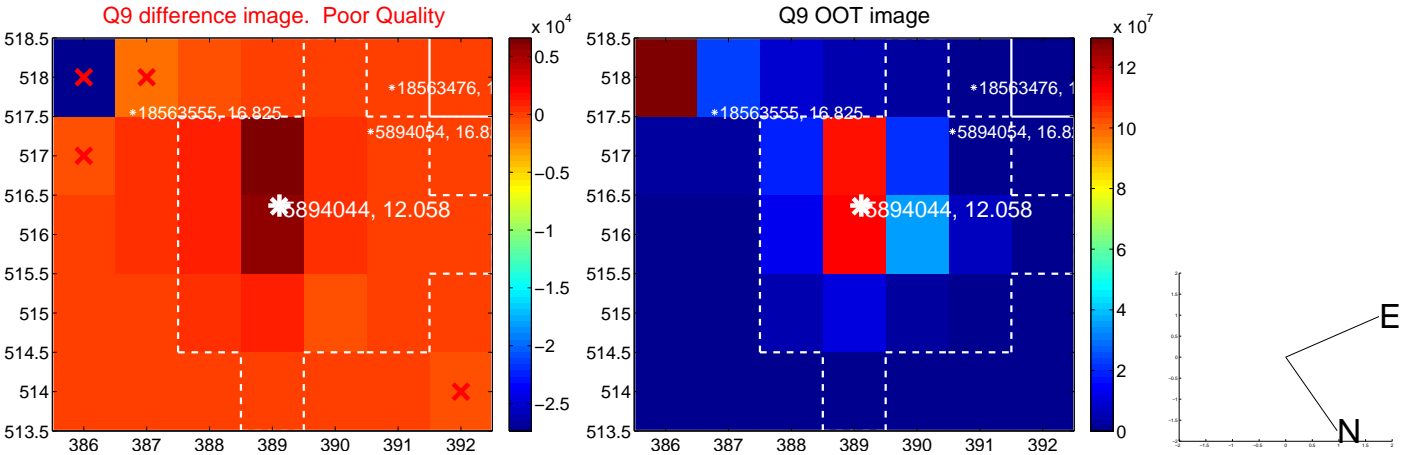
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



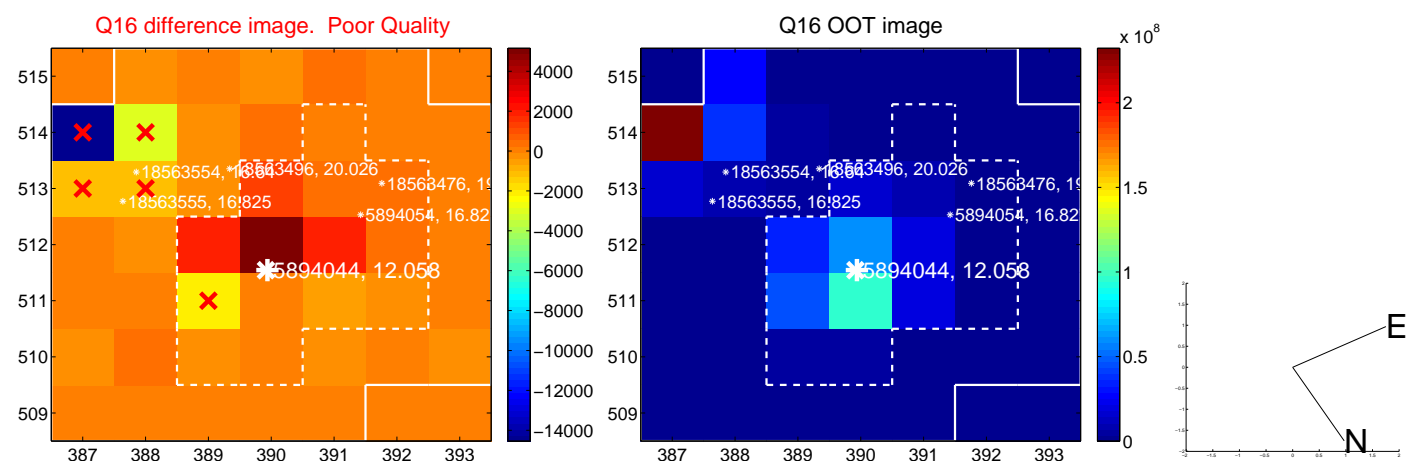
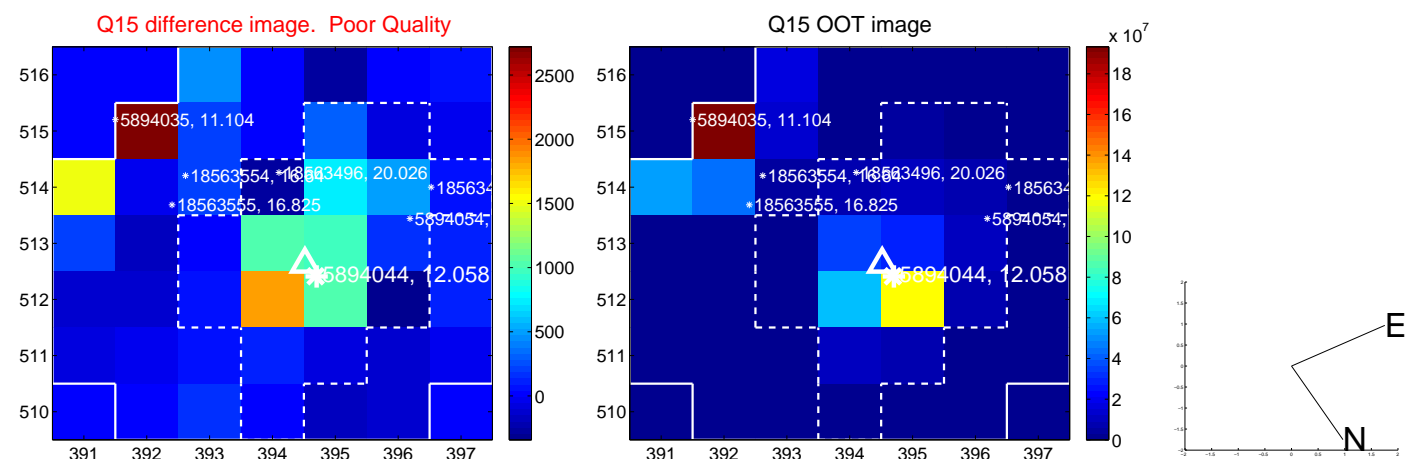
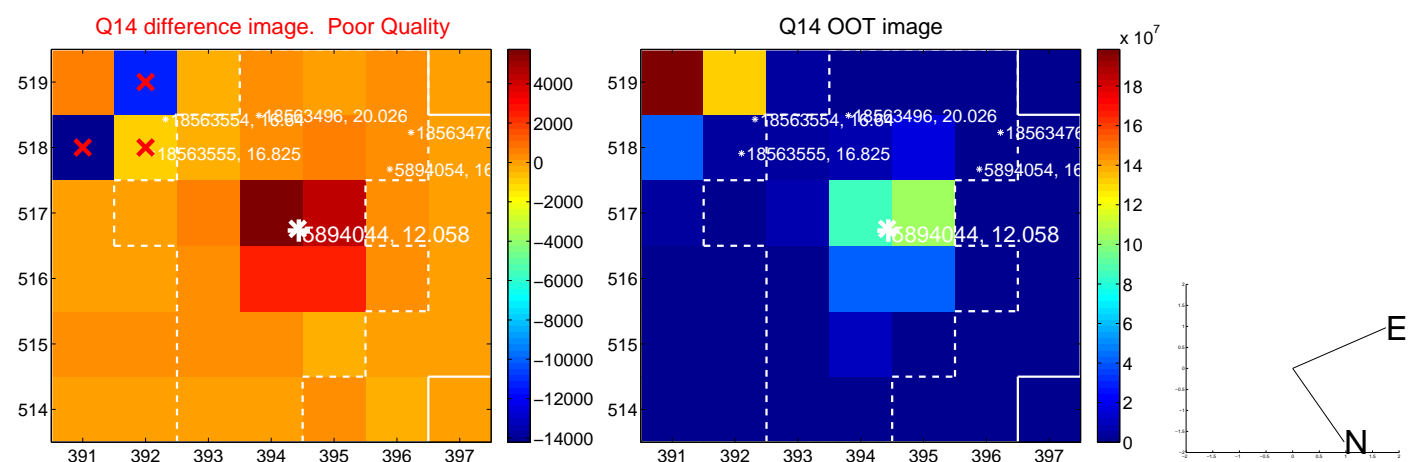
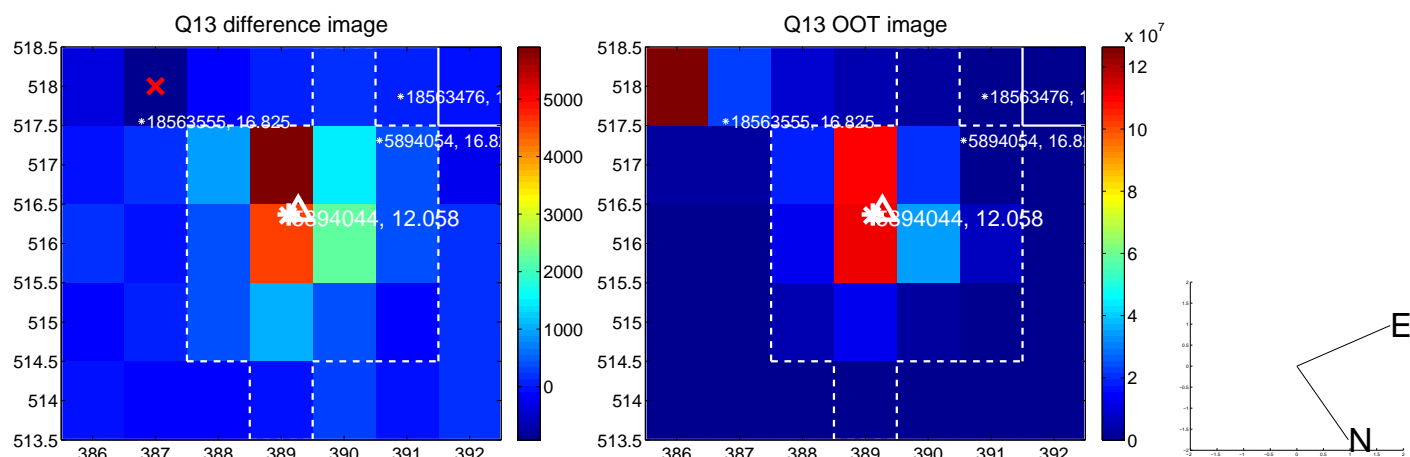
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



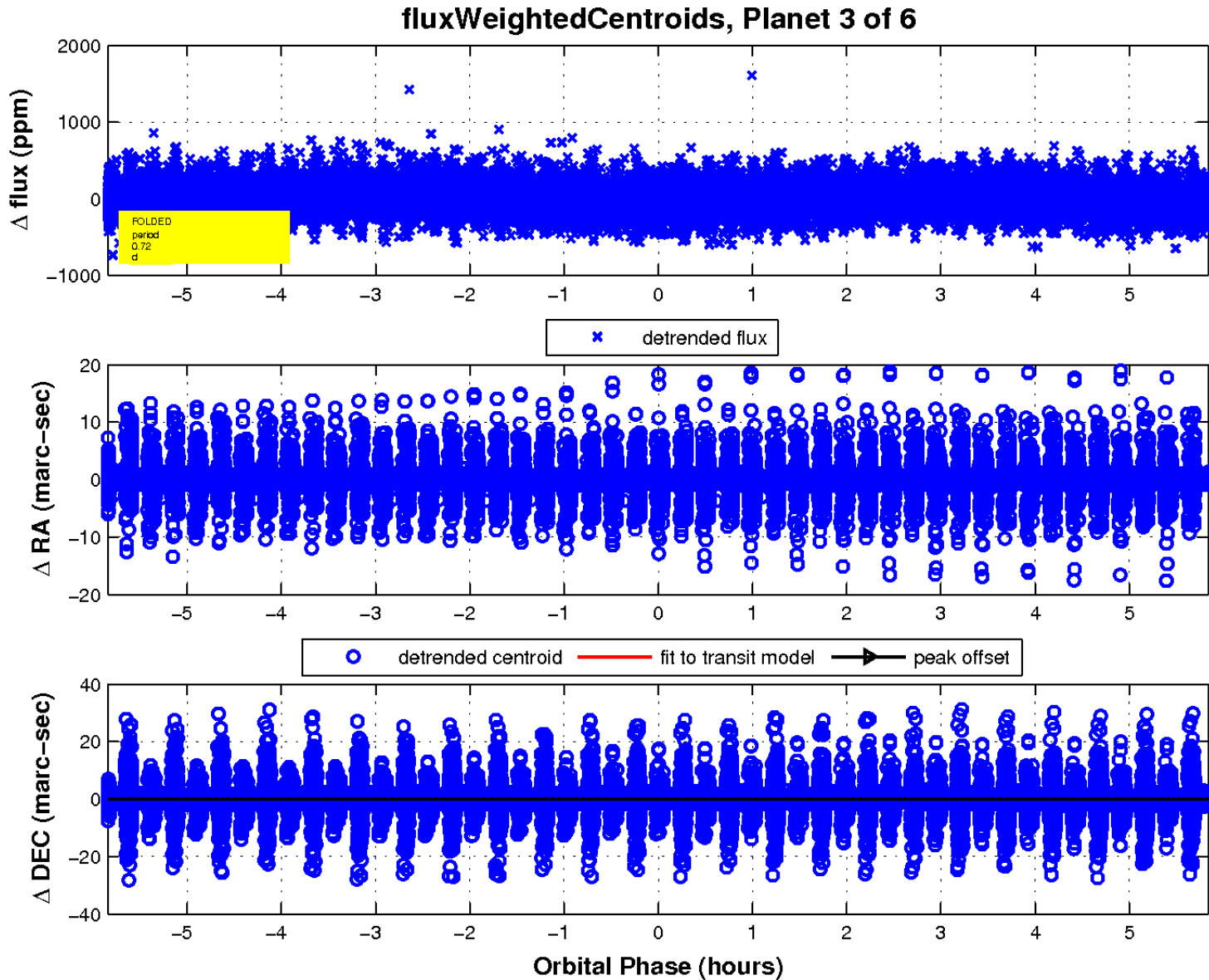
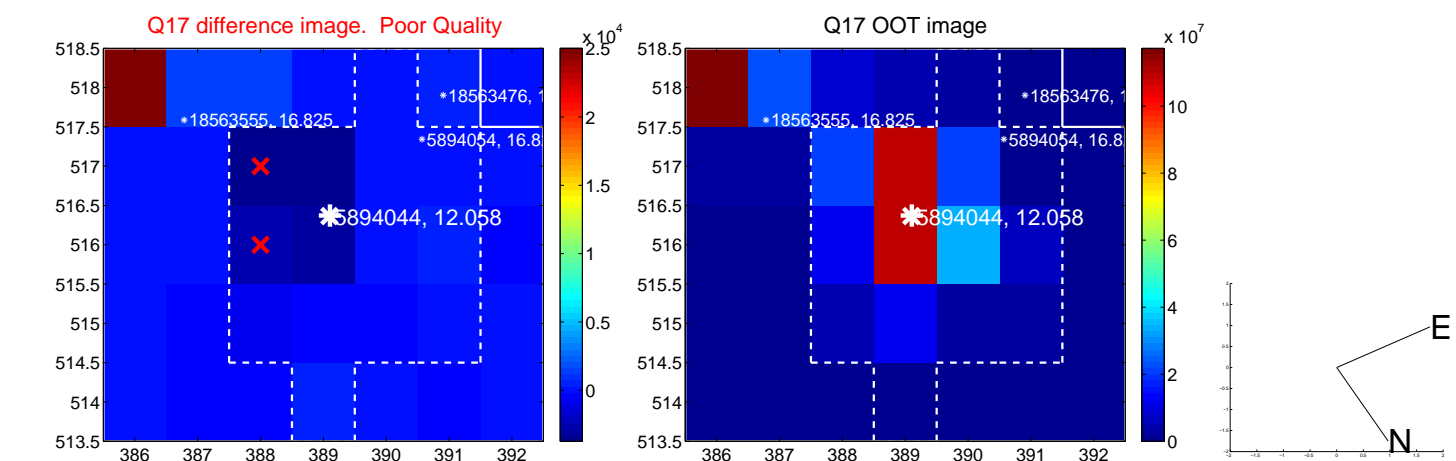
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

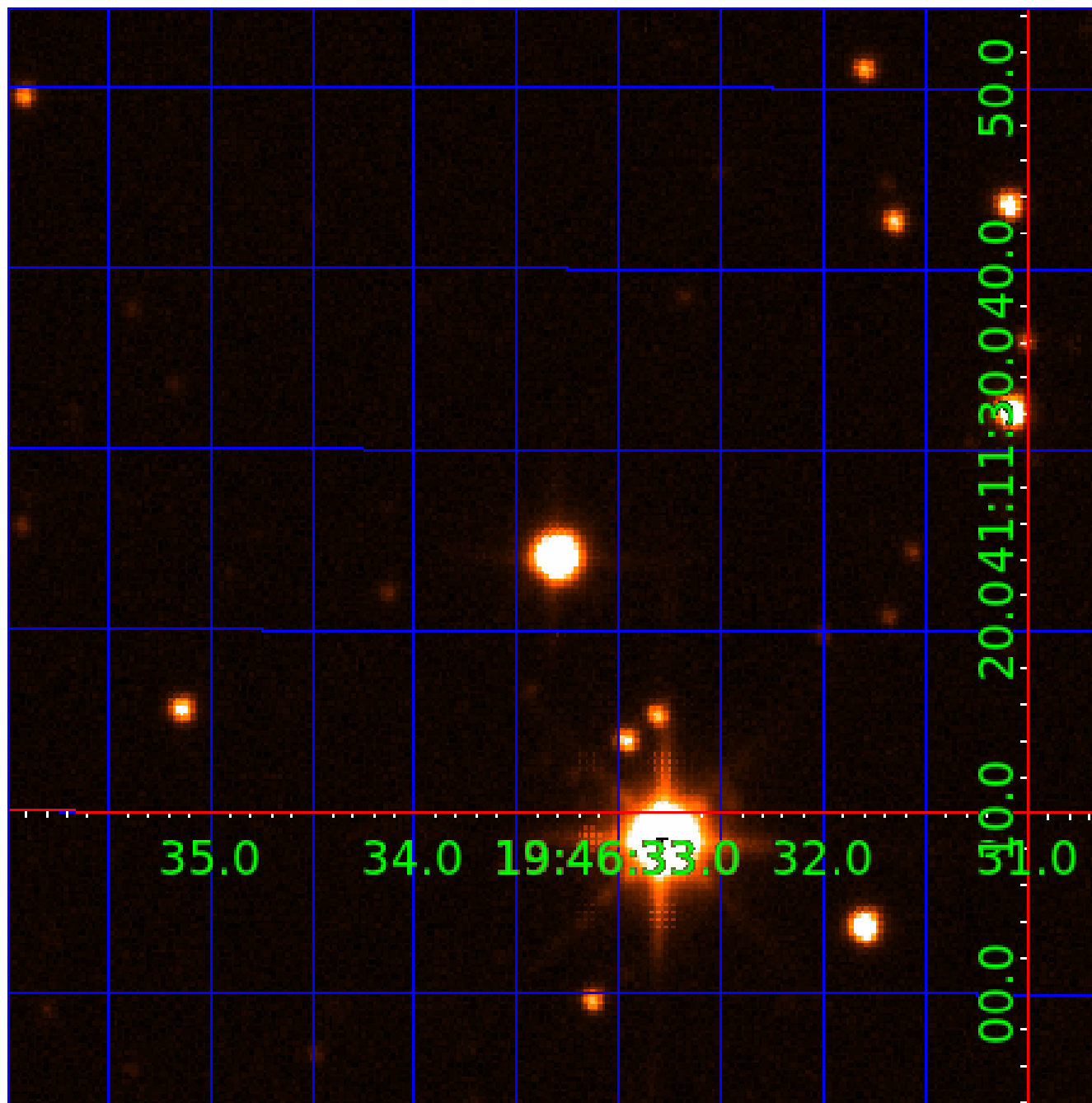


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005894044

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})
005894044-01	OBS	No	0.715134	132.228507	6.9	4.342	10.4	3.4	4.83	6748	1.28	0.00
005894044-02	OBS	No	92.770283	176.774813	472.5	4.523	13.7	10.7	4.83	6748	10.98	169.61
005894044-03	OBS	No	0.715156	131.769425	47.2	1.947	13.3	20.1	4.83	6748	3.35	0.00
005894044-05	OBS	No	9.525038	132.487894	350.6	1.016	10.9	8.5	4.83	6748	10.70	3527.74
005894044-06	OBS	No	8.895671	136.212688	214.9	2.213	8.1	8.8	4.83	6748	7.27	3864.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005894044-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005894044-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_RESOLVED_OFFSET
005894044-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
005894044-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET
005894044-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

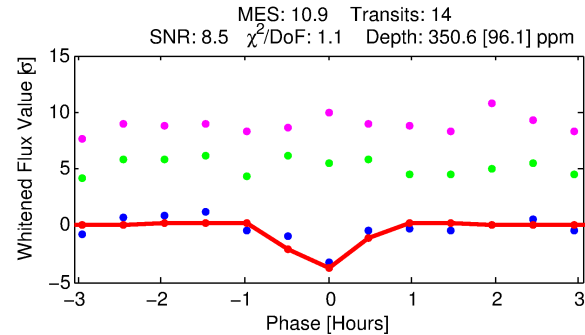
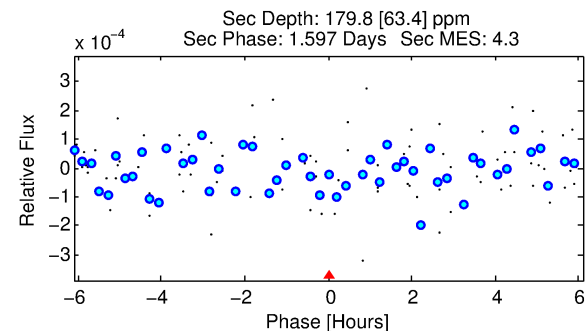
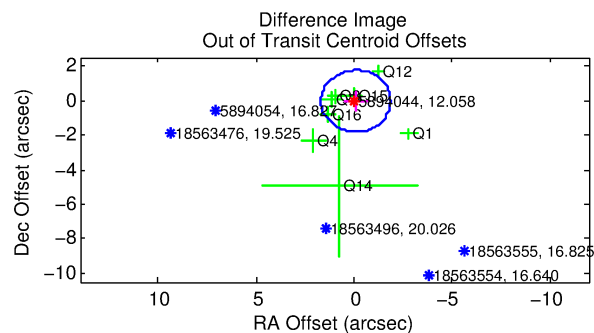
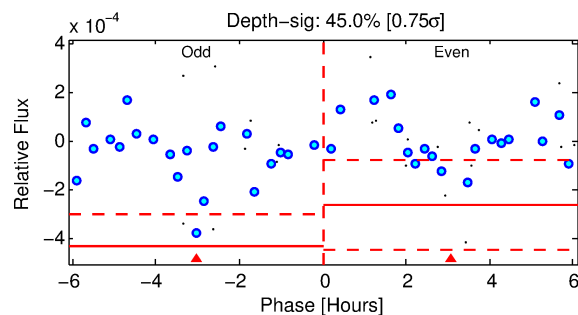
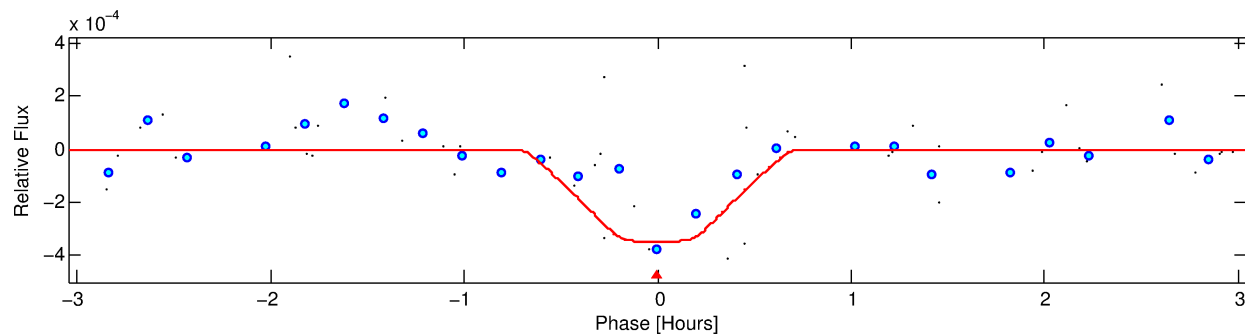
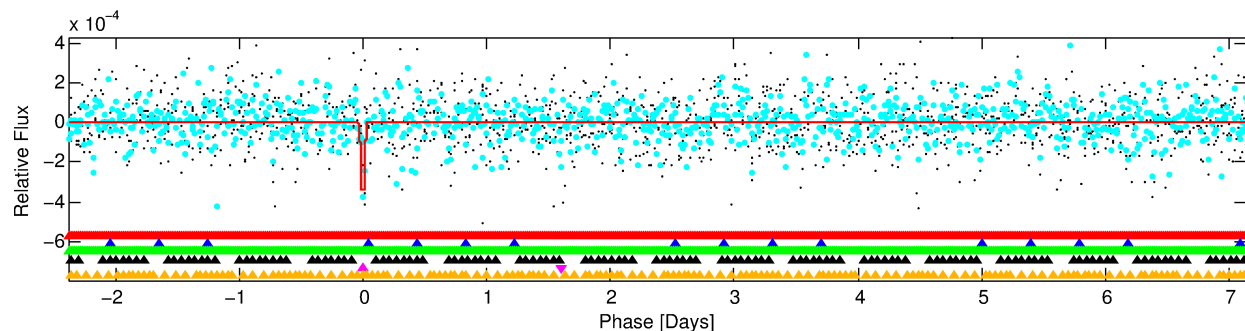
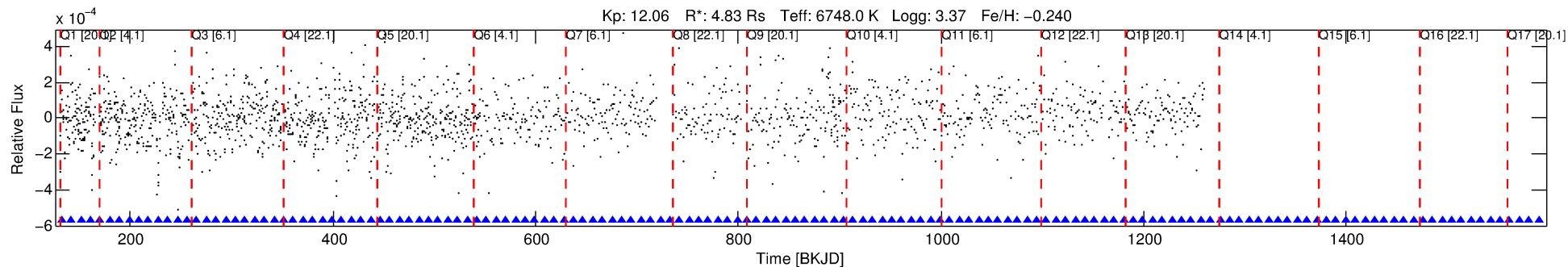
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005894044-05

No Significant Match Found

DV One-Page Summary

KIC: 5894044 Candidate: 5 of 6 Period: 9.525 d



DV Fit Results:

Period = 9.52504 [0.00006] d
Epoch = 132.4879 [0.0035] BKJD
Rp/R* = 0.0203 [0.0194]
a/R* = 32.92 [176.24]
b = 0.91 [1.03]
Seff = 3527.75 [2741.57]
Teq = 1965 [382] K
Rp = 10.70 [11.39] Re
a = 0.1107 [0.0522] AU
Ag = 10.59 [22.09] [0.43 σ]
Teffp = 5481 [2662] K [1.31 σ]

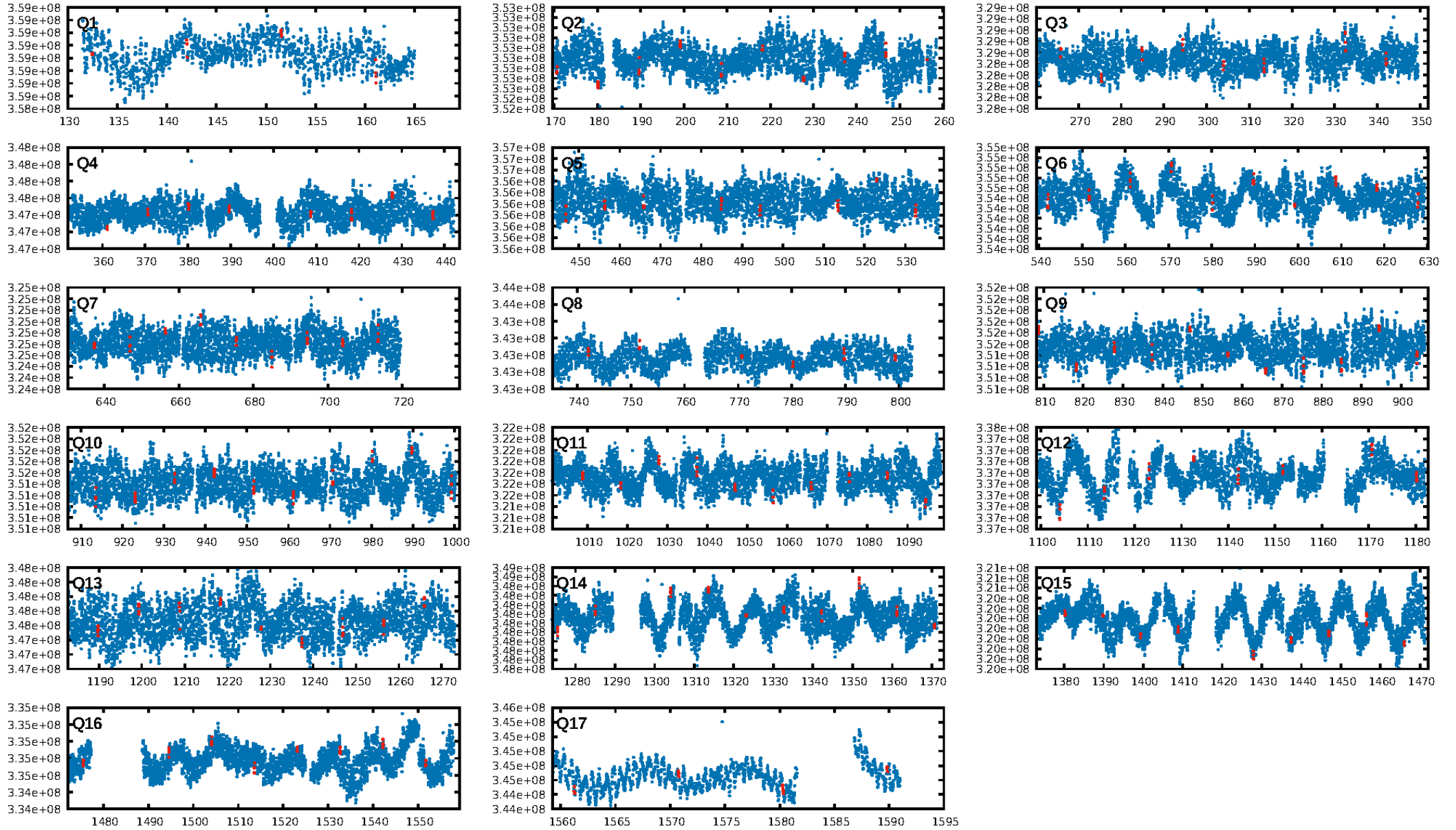
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [6.20 σ]
LongPeriod-sig: 100.0% [14.70 σ]
ModelChiSquare2-sig: 55.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.55e-16
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 0.8204
Centroid-sig: N/A
Centroid-so: 1.353 arcsec [4.97 σ]
OotOffset-rm: 0.092 arcsec [0.16 σ]
KicOffset-rm: 0.055 arcsec [0.08 σ]
OotOffset-st: 1/2/4/1 [8]
KicOffset-st: 1/2/4/1 [8]
DiffImageQuality-fgm: 0.12 [1/8]
DiffImageOverlap-fno: 0.00 [0/17]

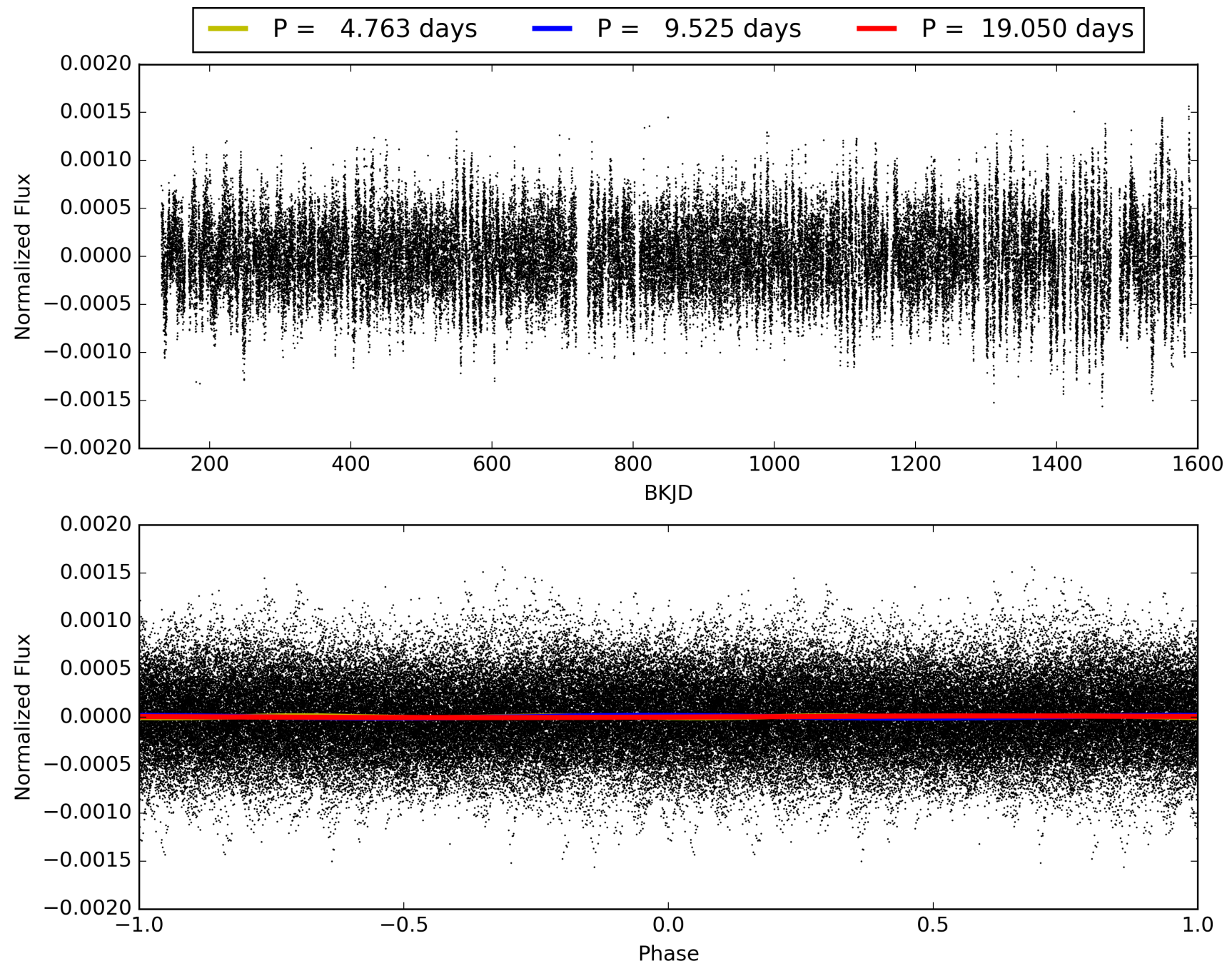
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:29:55 Z

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

TCE 005894044-05, PDC Light Curves

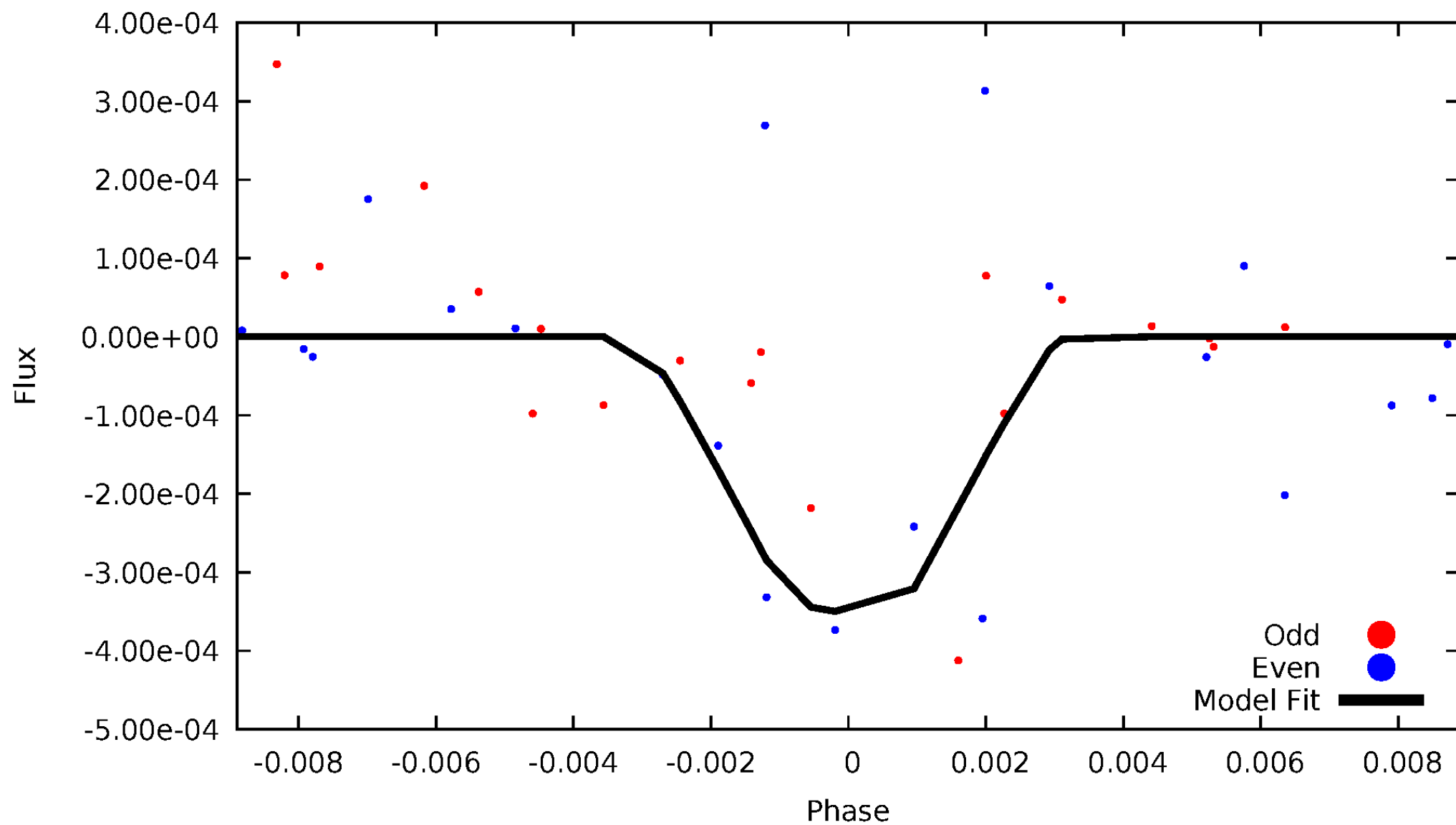


TCE 005894044-05



DV Odd/Even

TCE 005894044-05

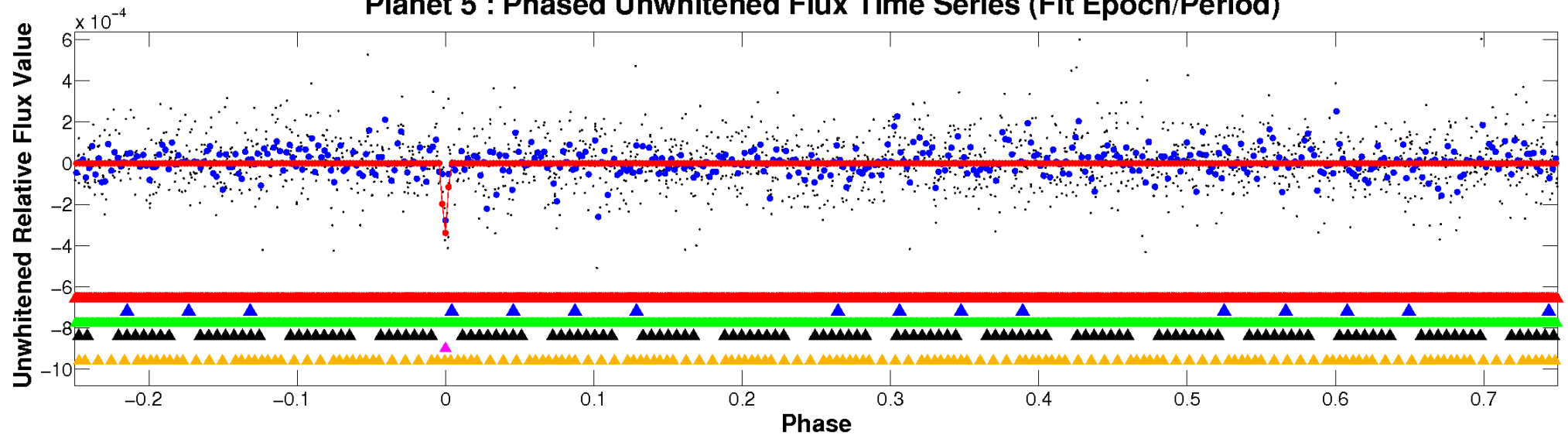


ALT Odd/Even

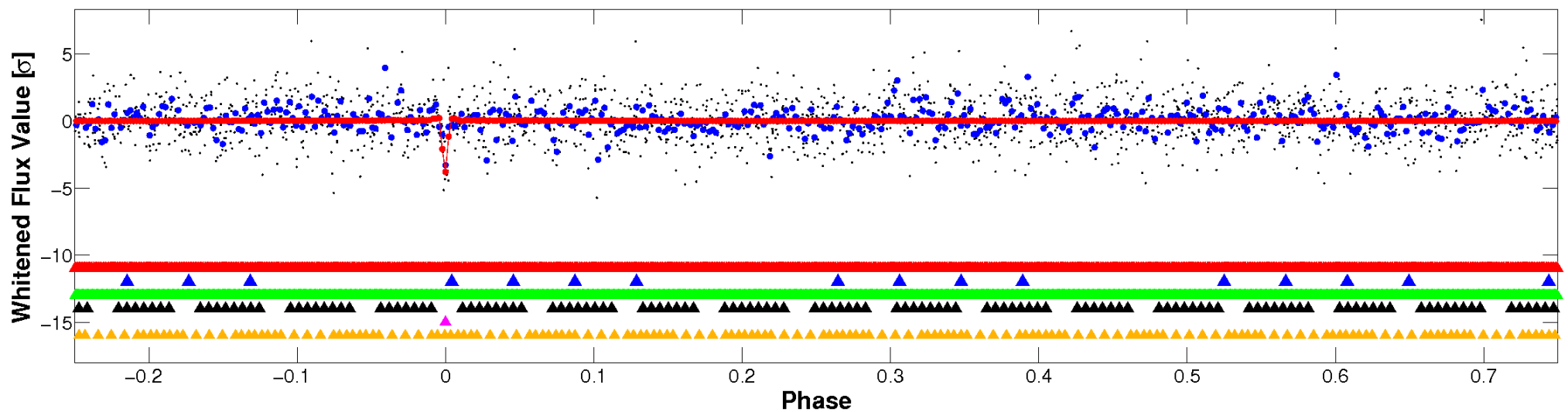
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

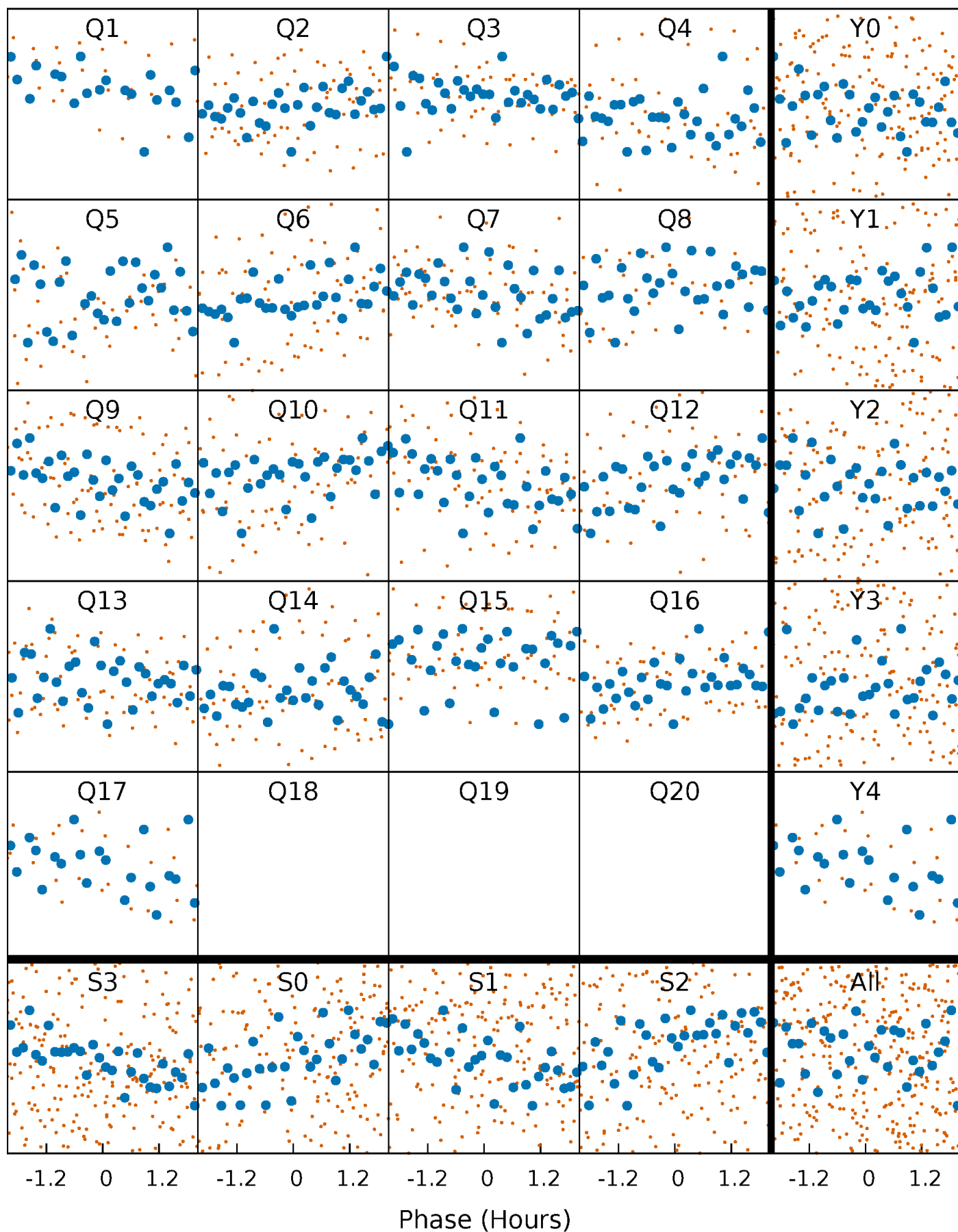


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



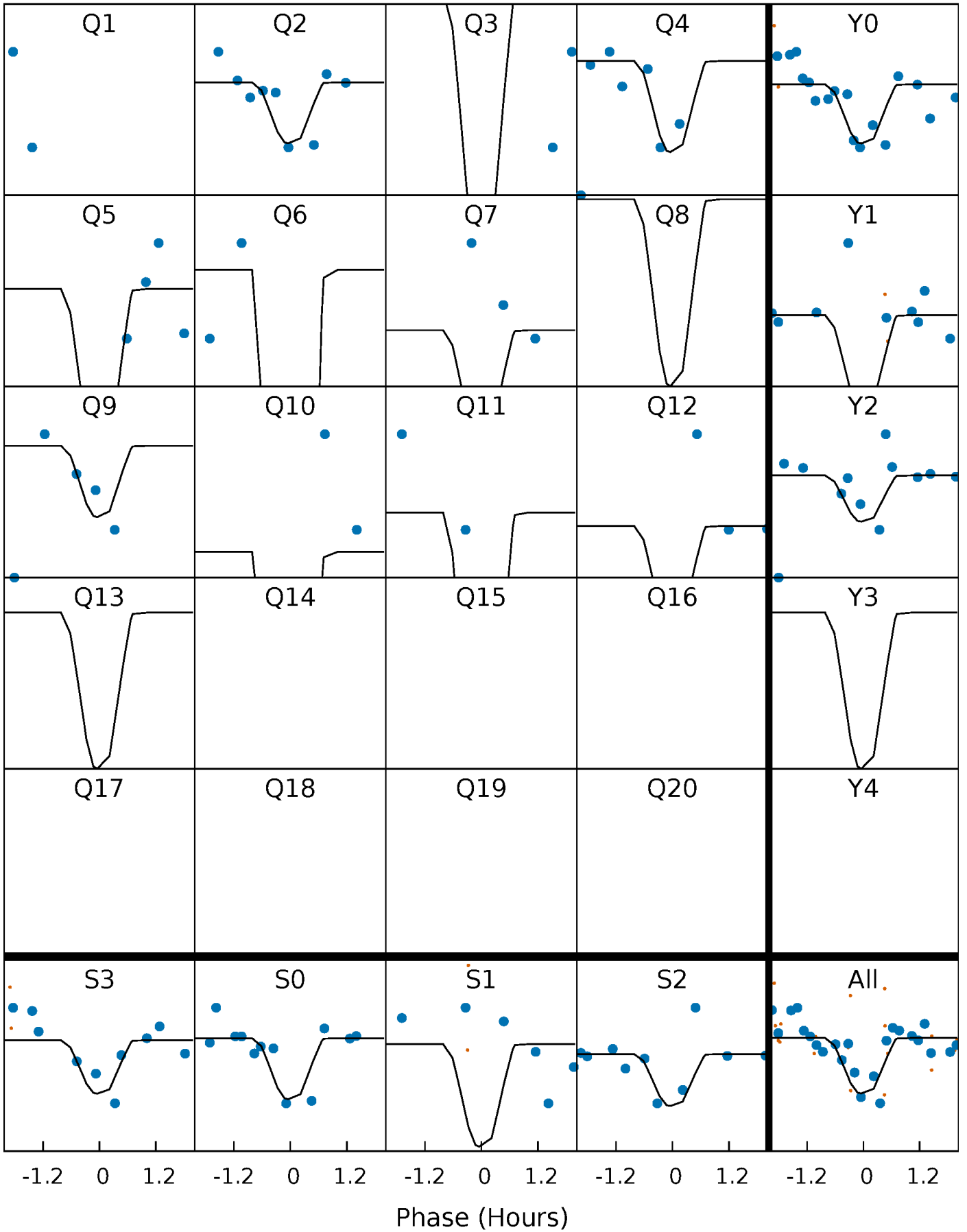
PDC Quarter-Phased Transit Curves

TCE 005894044-05 P= 9.525038 Days $T_0=132.487894$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005894044-05 P= 9.525038 Days $T_0=132.487894$ (BKJD)

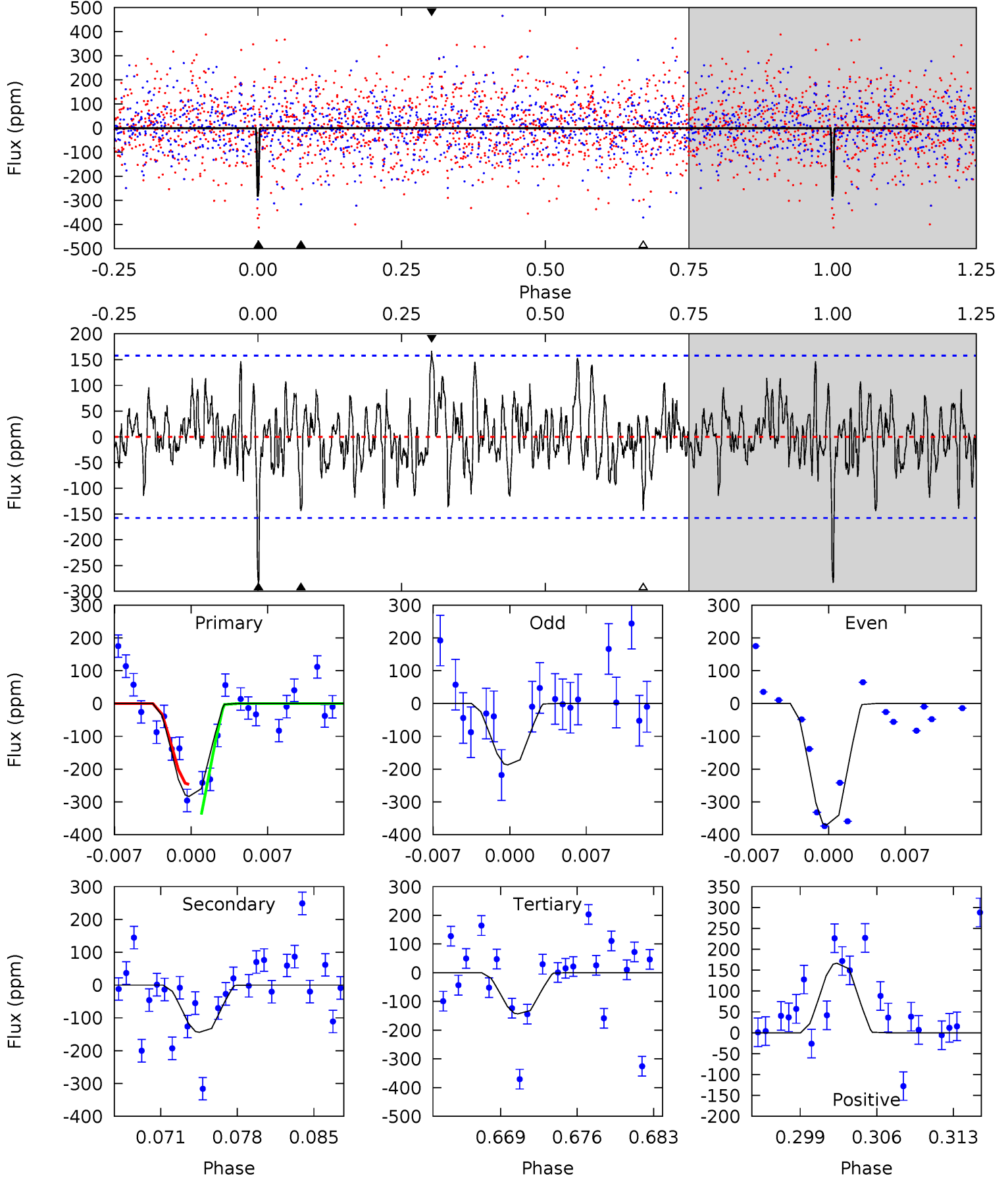


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005894044-05, P = 9.525038 Days, E = 122.962856 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.15	4.65	4.63	5.39	5.09	2.69	1.57	4.52	3.76	0.02	-0.73	2.95	1.07	0.37	1.50



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005894044

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6748^{+162}_{-202}	$3.371^{+0.456}_{-0.048}$	$-0.240^{+0.300}_{-0.250}$	$4.826^{+0.254}_{-2.285}$	$1.998^{+0.152}_{-0.455}$	$0.025^{+0.101}_{-0.004}$
	+2%/-3%	+14%/-1%	+125%/-104%	+5%/-47%	+8%/-23%	+405%/-16%
Source	PHO1	FLK73	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 005894044-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-144 ± 31	$11.07^{+9.43}_{-7.59}$	2666^{+135}_{-308}	4831^{+3989}_{-1032}	$8.252^{+67.986}_{-6.050}$
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 $A_{obs} \gg 1.0$

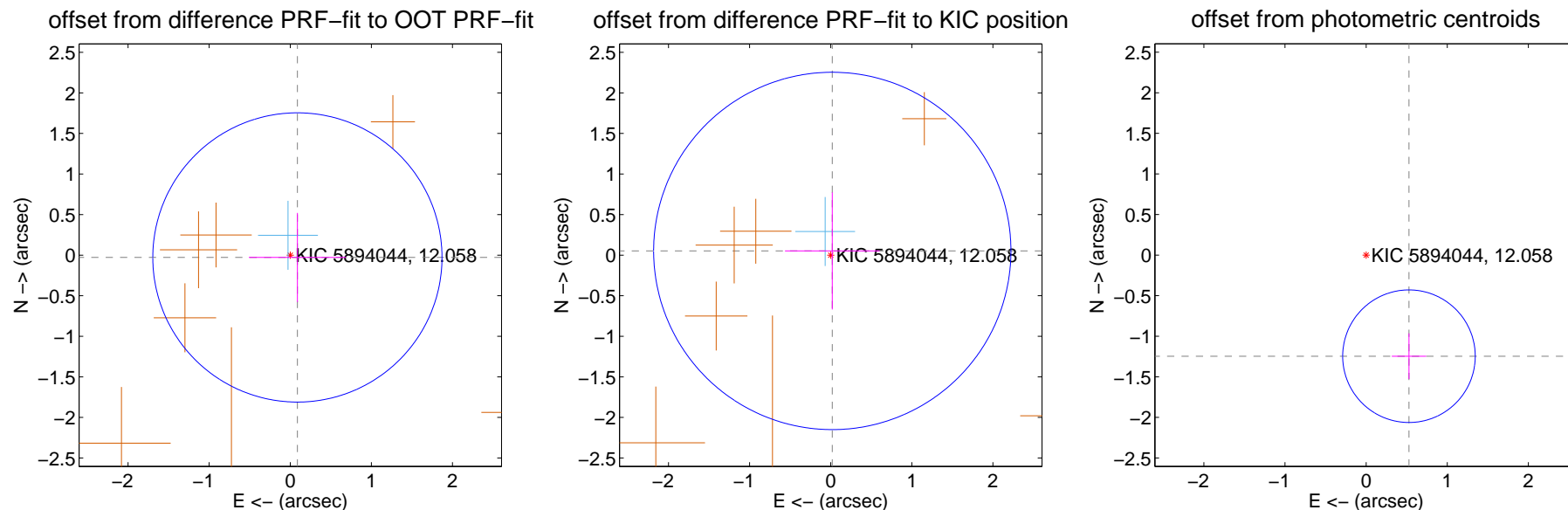
DV Centroid Data

Supplemental centroid analysis for 005894044-05. Kepler magnitude: 12.06. Transit SNR 8.49

There are 1 quarters with good PRF difference image offsets

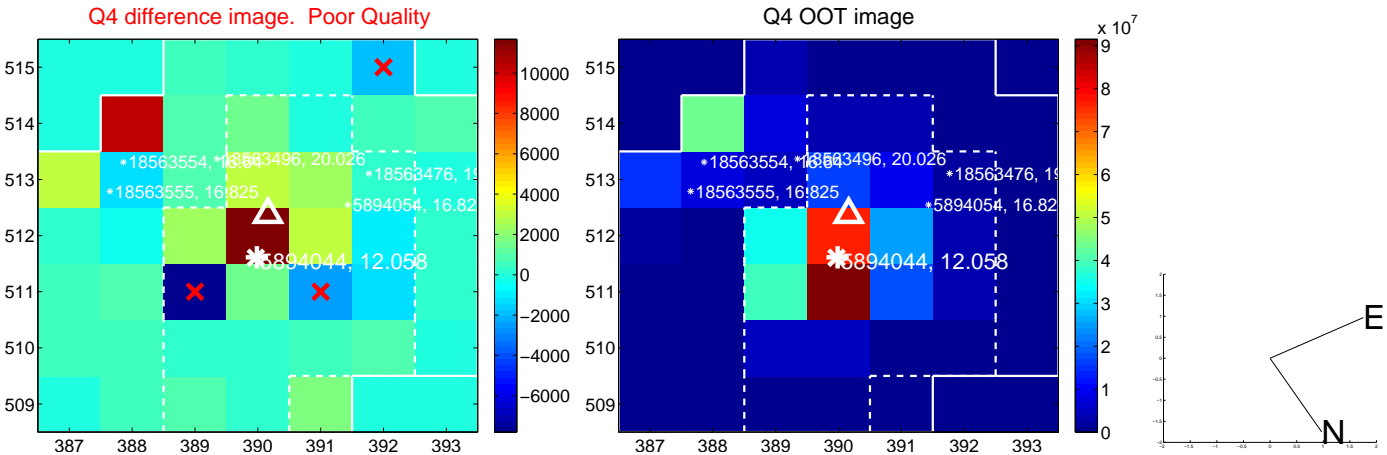
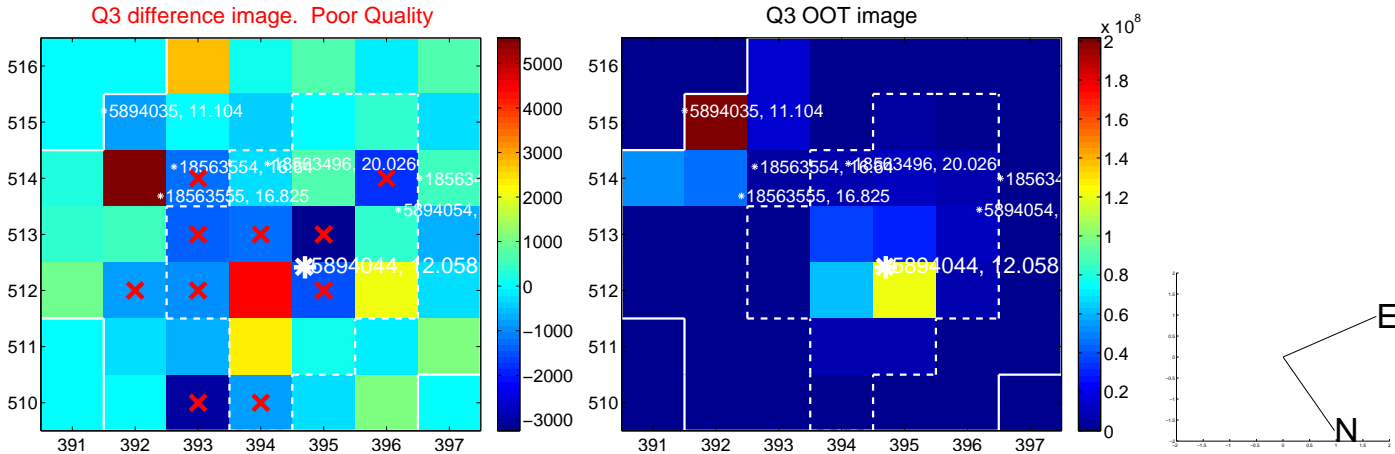
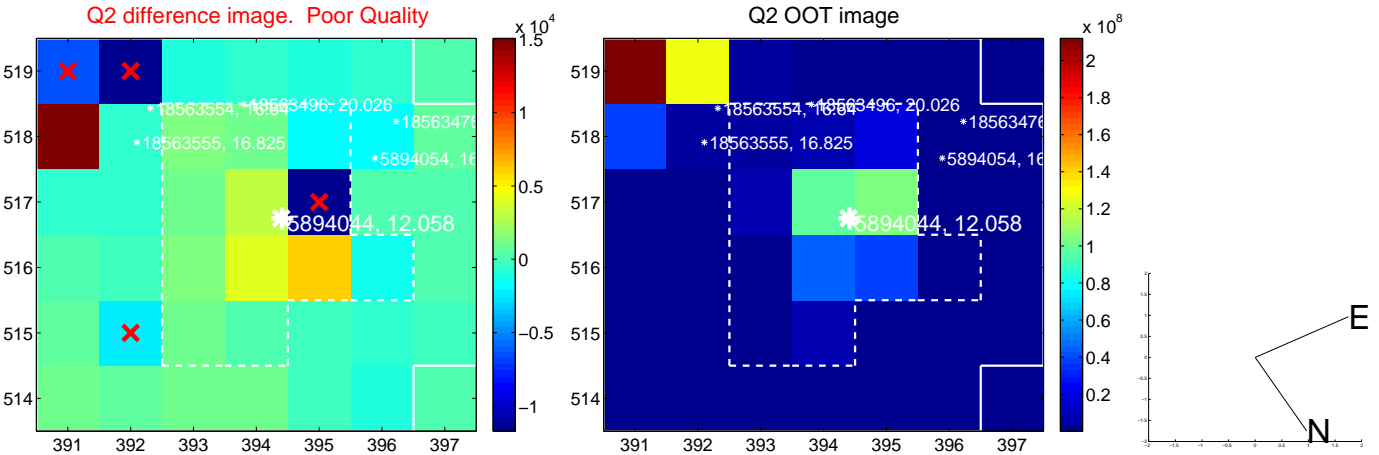
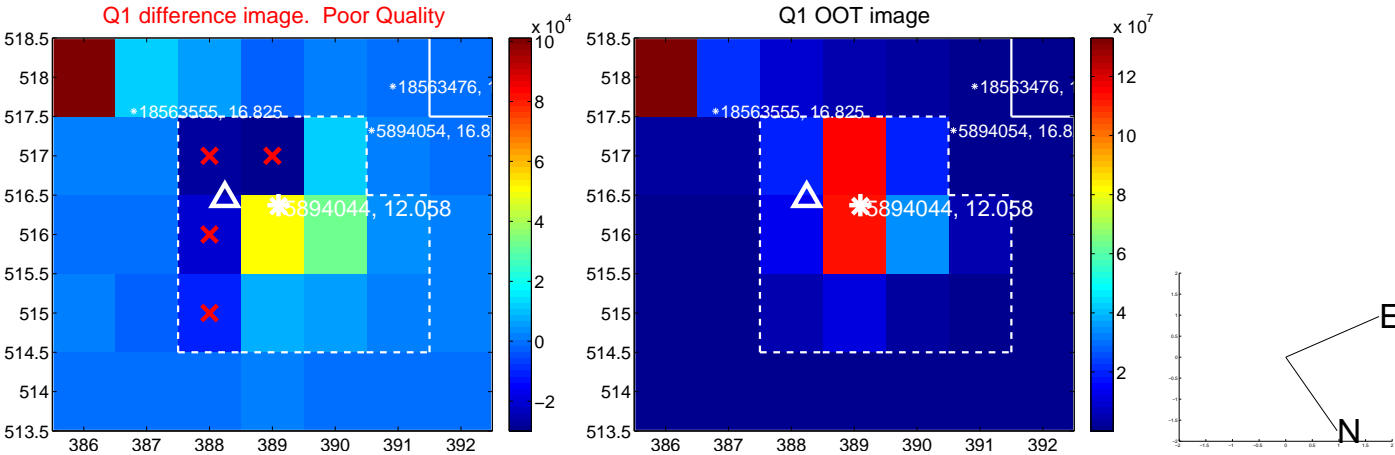
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.092 ± 0.594	0.16	-0.088 ± 0.599	-0.028 ± 0.549
PRF-fit source offset from KIC position	0.055 ± 0.734	0.08	-0.019 ± 0.584	0.052 ± 0.722
photometric centroid source offset	1.35 ± 0.27	4.97	-0.53 ± 0.21	-1.25 ± 0.28

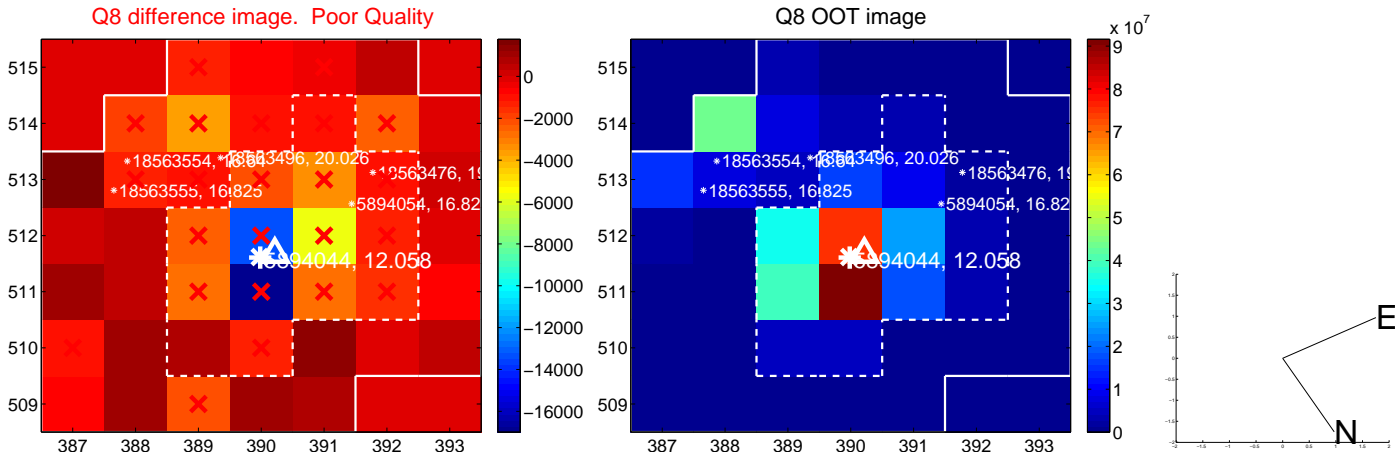
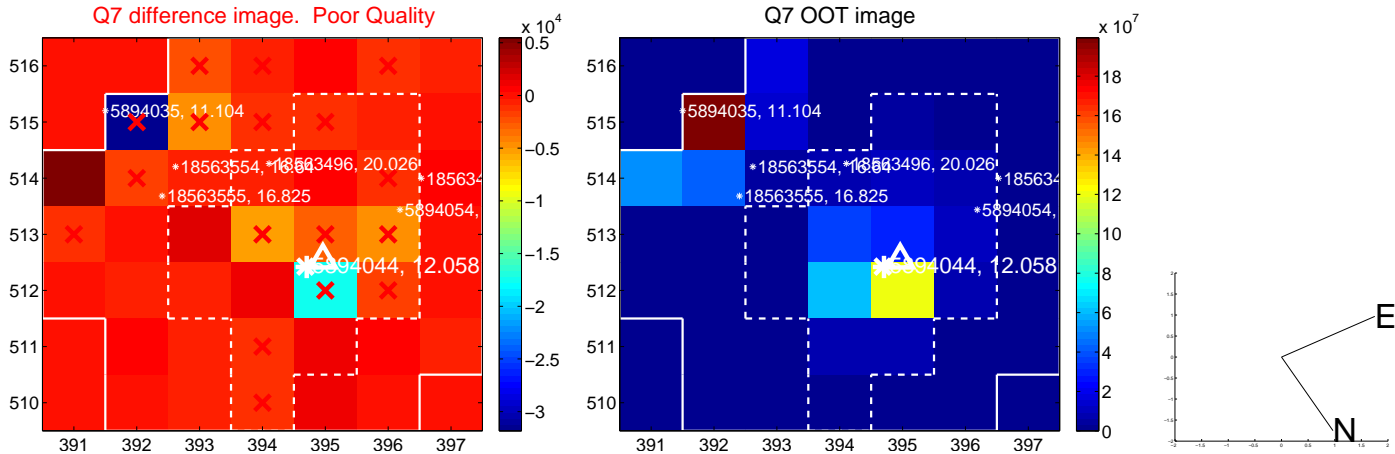
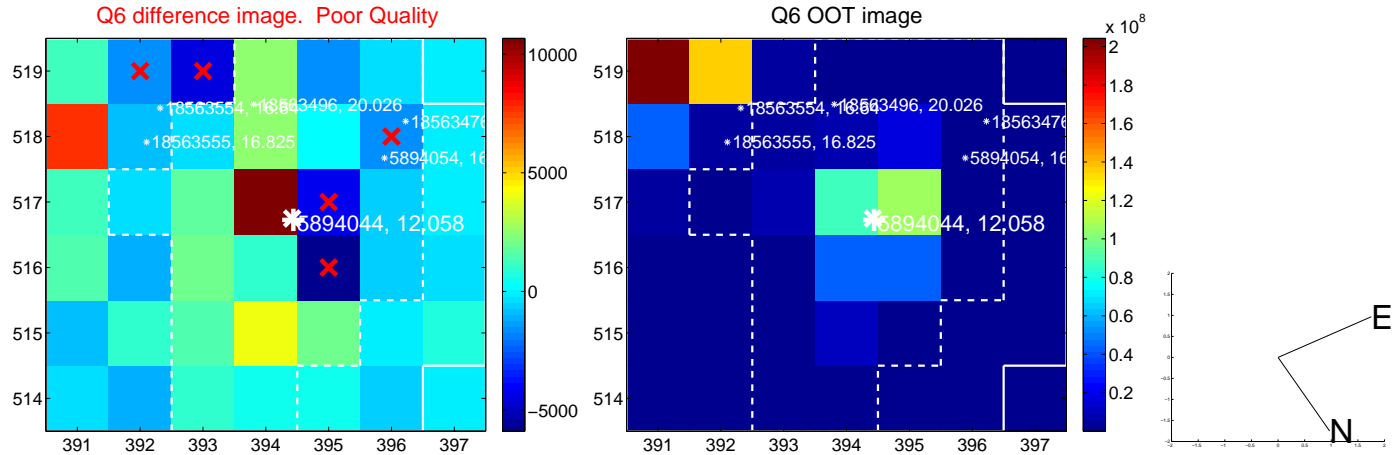
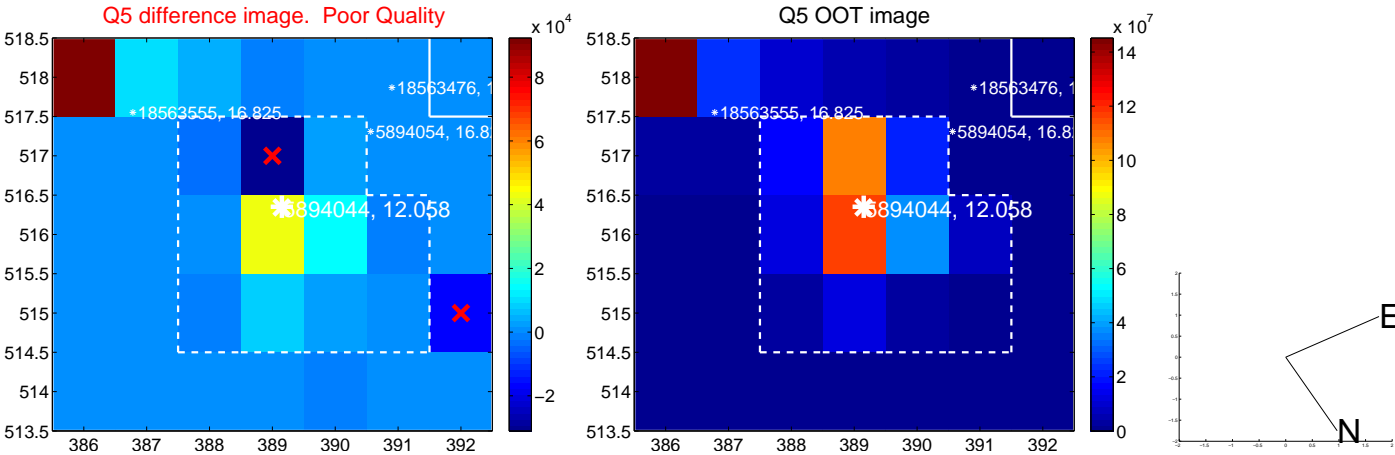


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

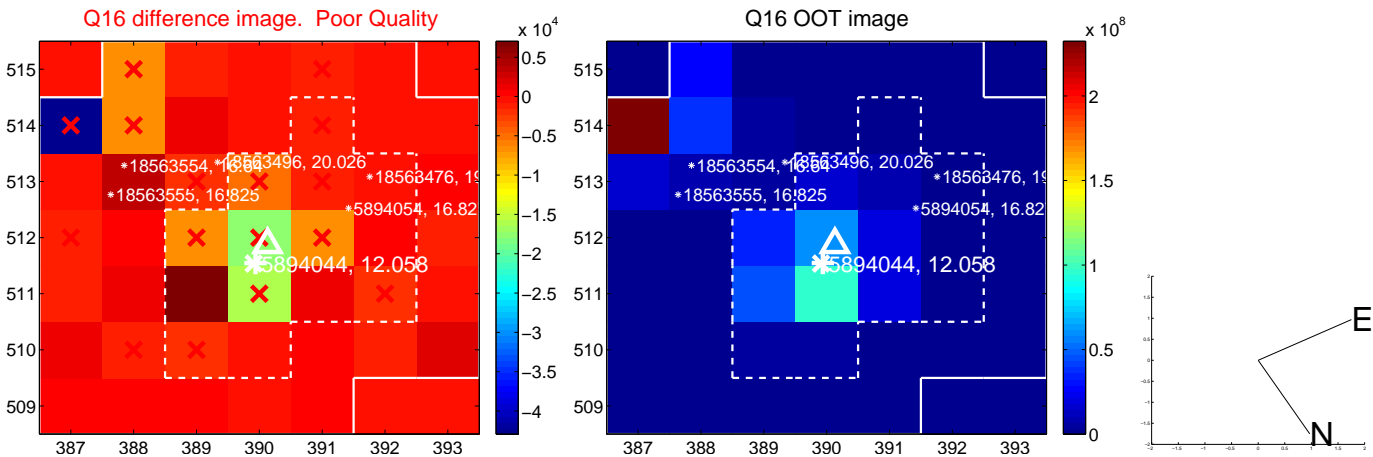
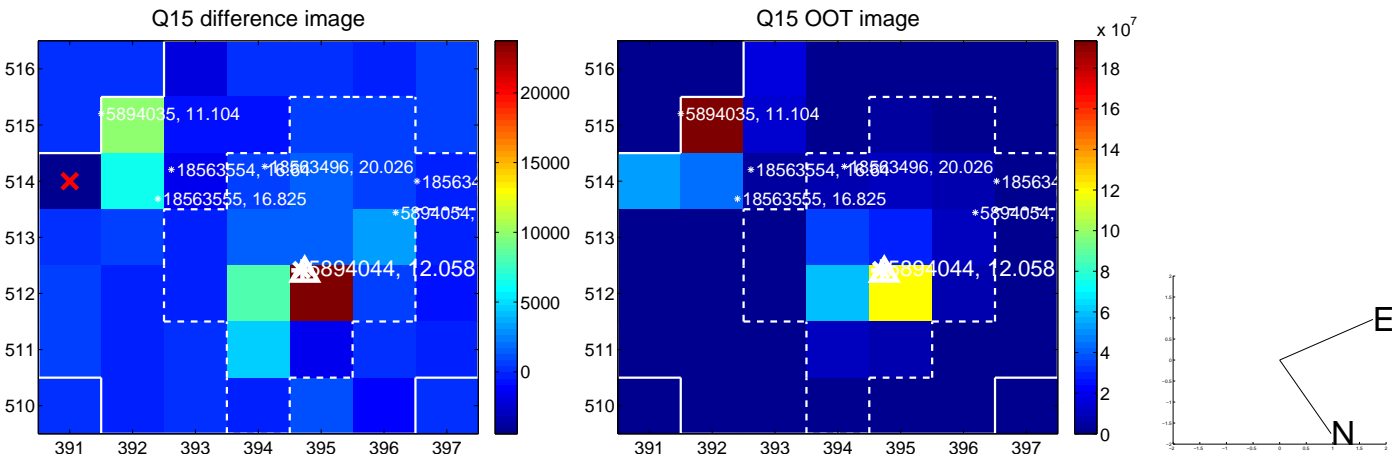
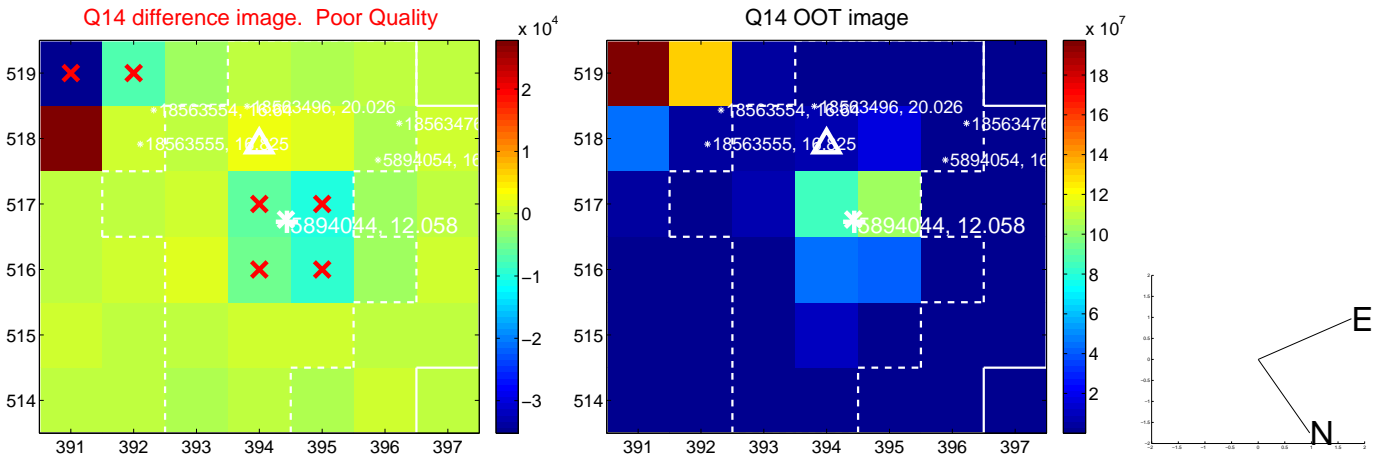
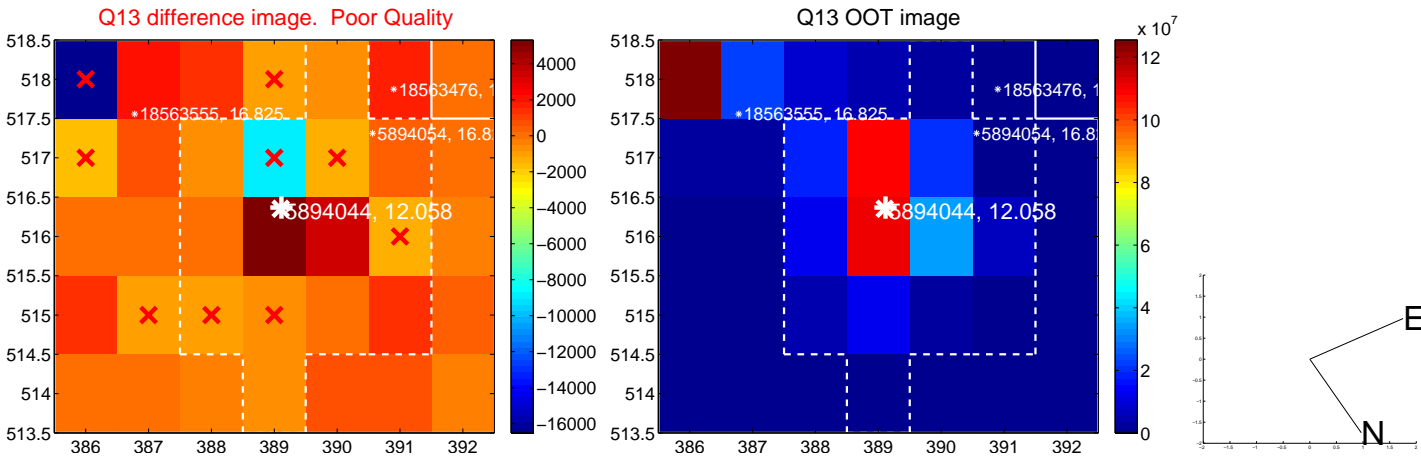
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



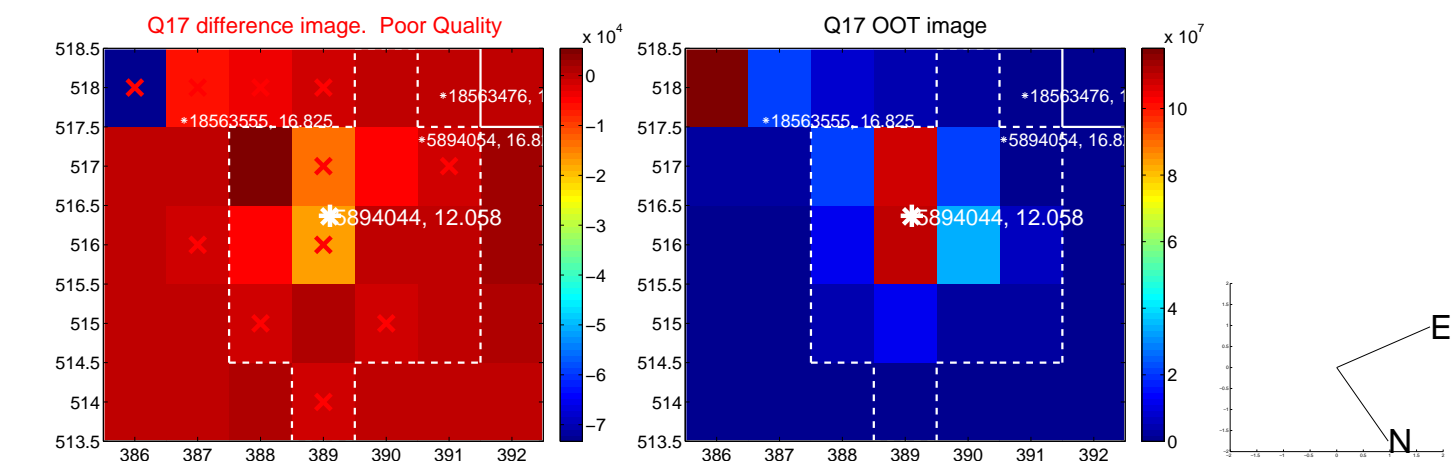
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



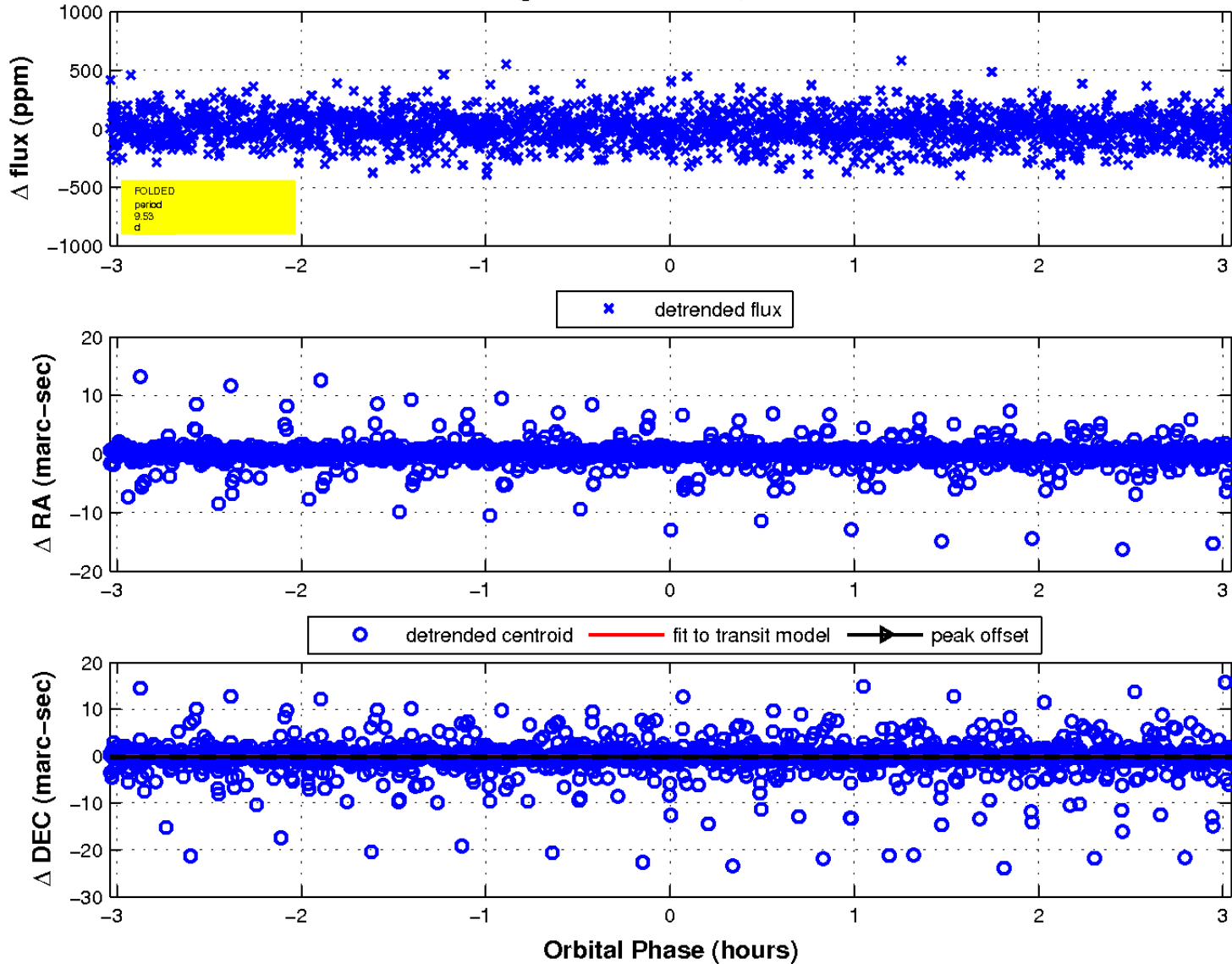
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

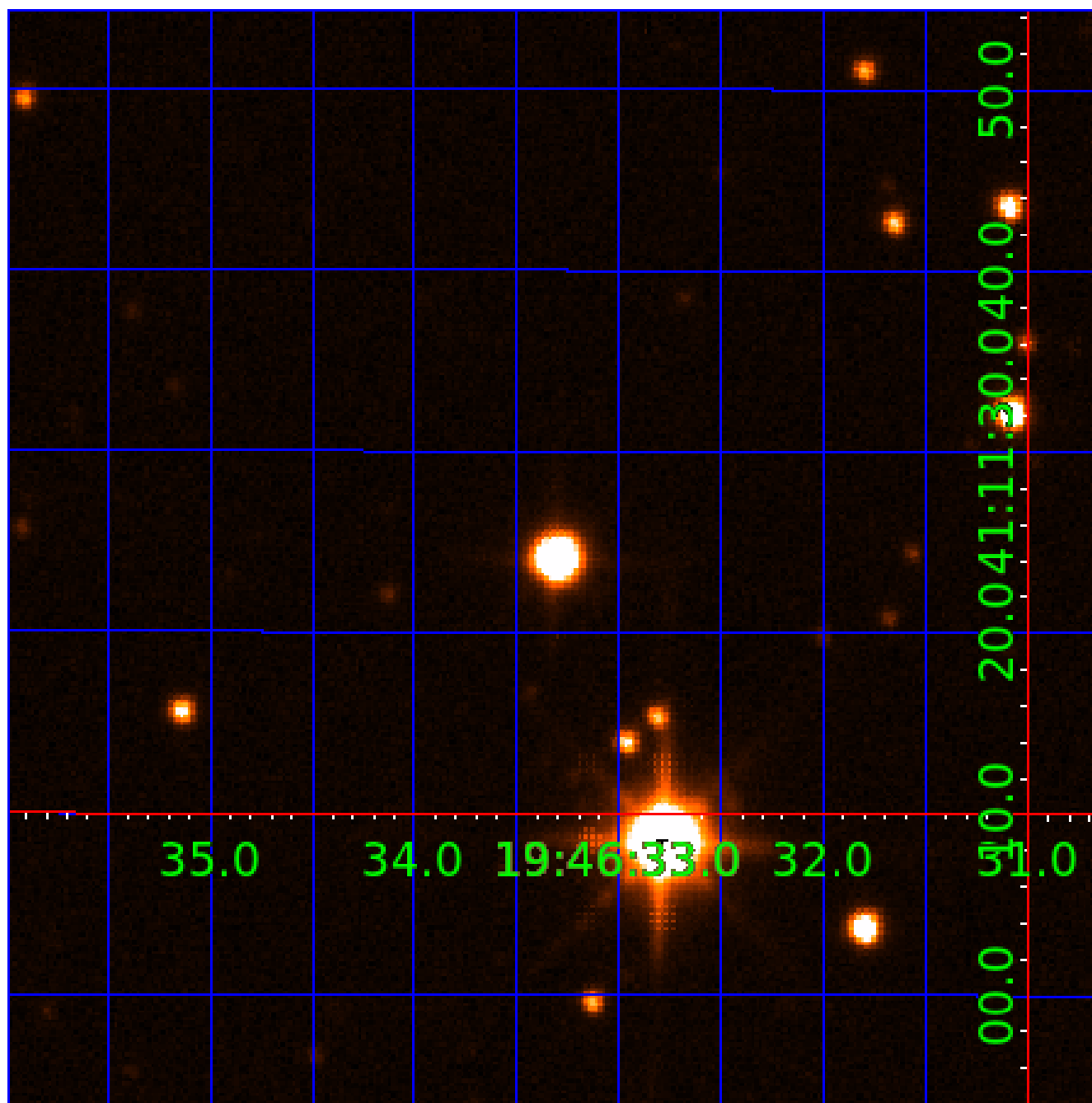


fluxWeightedCentroids, Planet 5 of 6



UKIRT Image

Declination



KIC 005894044

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})
005894044-01	OBS	No	0.715134	132.228507	6.9	4.342	10.4	3.4	4.83	6748	1.28	0.00
005894044-02	OBS	No	92.770283	176.774813	472.5	4.523	13.7	10.7	4.83	6748	10.98	169.61
005894044-03	OBS	No	0.715156	131.769425	47.2	1.947	13.3	20.1	4.83	6748	3.35	0.00
005894044-05	OBS	No	9.525038	132.487894	350.6	1.016	10.9	8.5	4.83	6748	10.70	3527.74
005894044-06	OBS	No	8.895671	136.212688	214.9	2.213	8.1	8.8	4.83	6748	7.27	3864.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005894044-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005894044-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_RESOLVED_OFFSET
005894044-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD
005894044-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_RESOLVED_OFFSET
005894044-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV

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

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

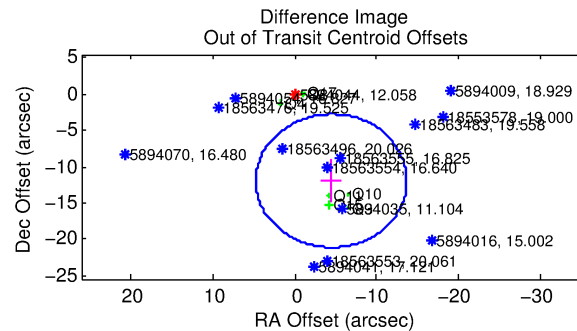
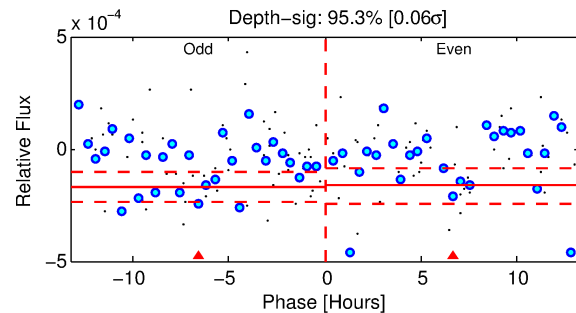
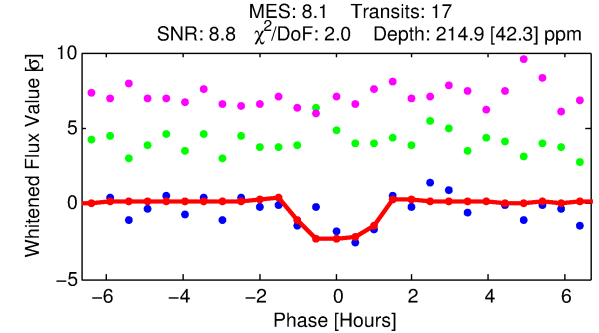
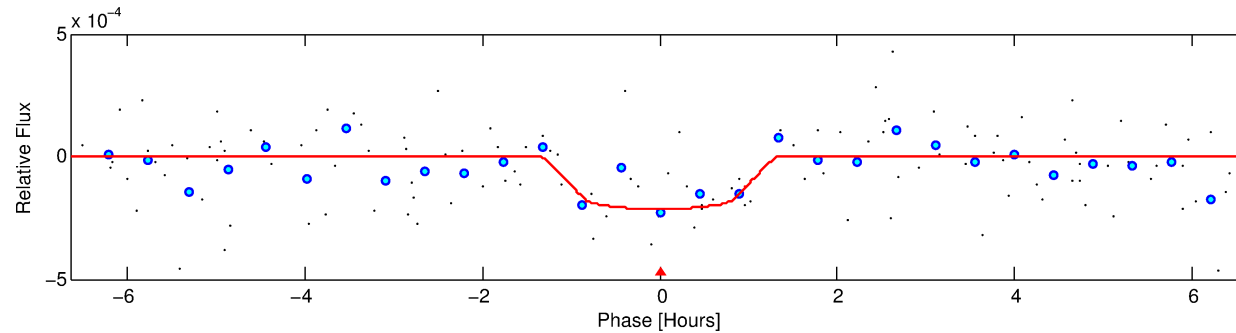
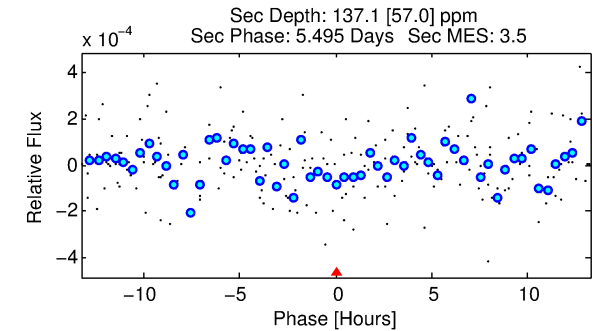
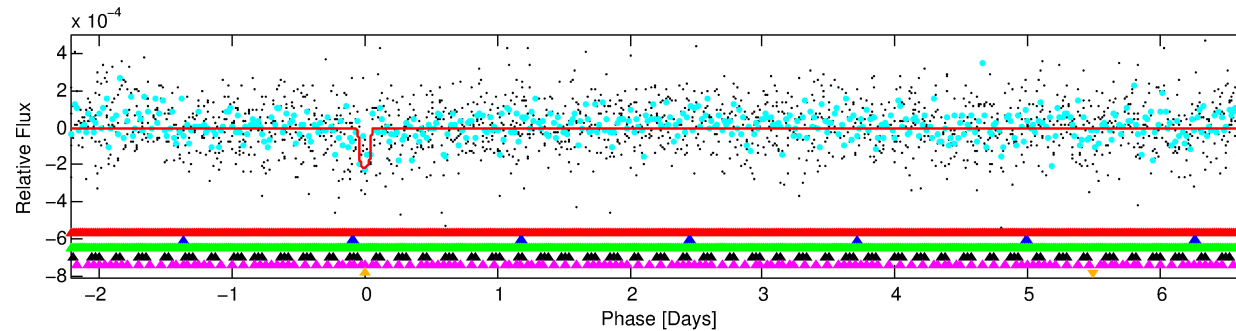
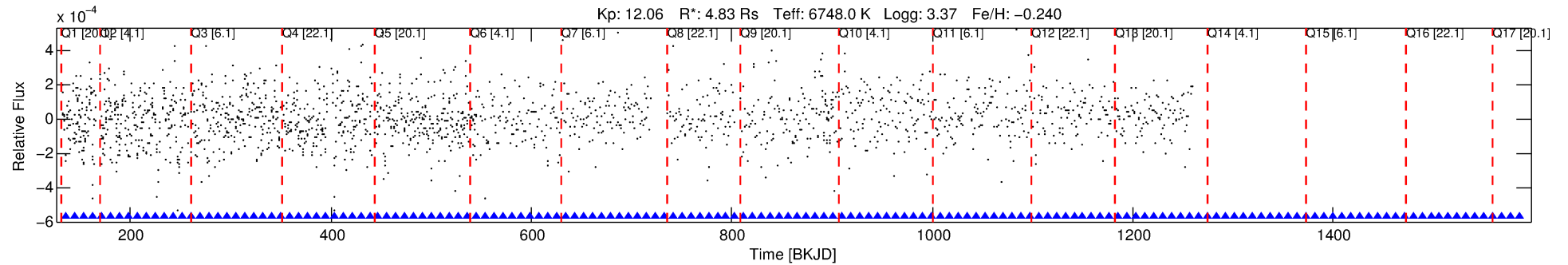
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005894044-06

No Significant Match Found

DV One-Page Summary

KIC: 5894044 Candidate: 6 of 6 Period: 8.896 d



DV Fit Results:

Period = 8.89567 [0.00012] d
Epoch = 136.2127 [0.0081] BKJD
Rp/R* = 0.0138 [0.0254]
a/R* = 28.38 [285.60]
b = 0.42 [20.28]
Seff = 3864.39 [3003.19]
Teq = 2010 [391] K
Rp = 7.27 [13.82] Re
a = 0.1058 [0.0499] AU
Ag = 15.99 [60.50] [0.25σ]
Teff = 6215 [5761] K [0.73σ]

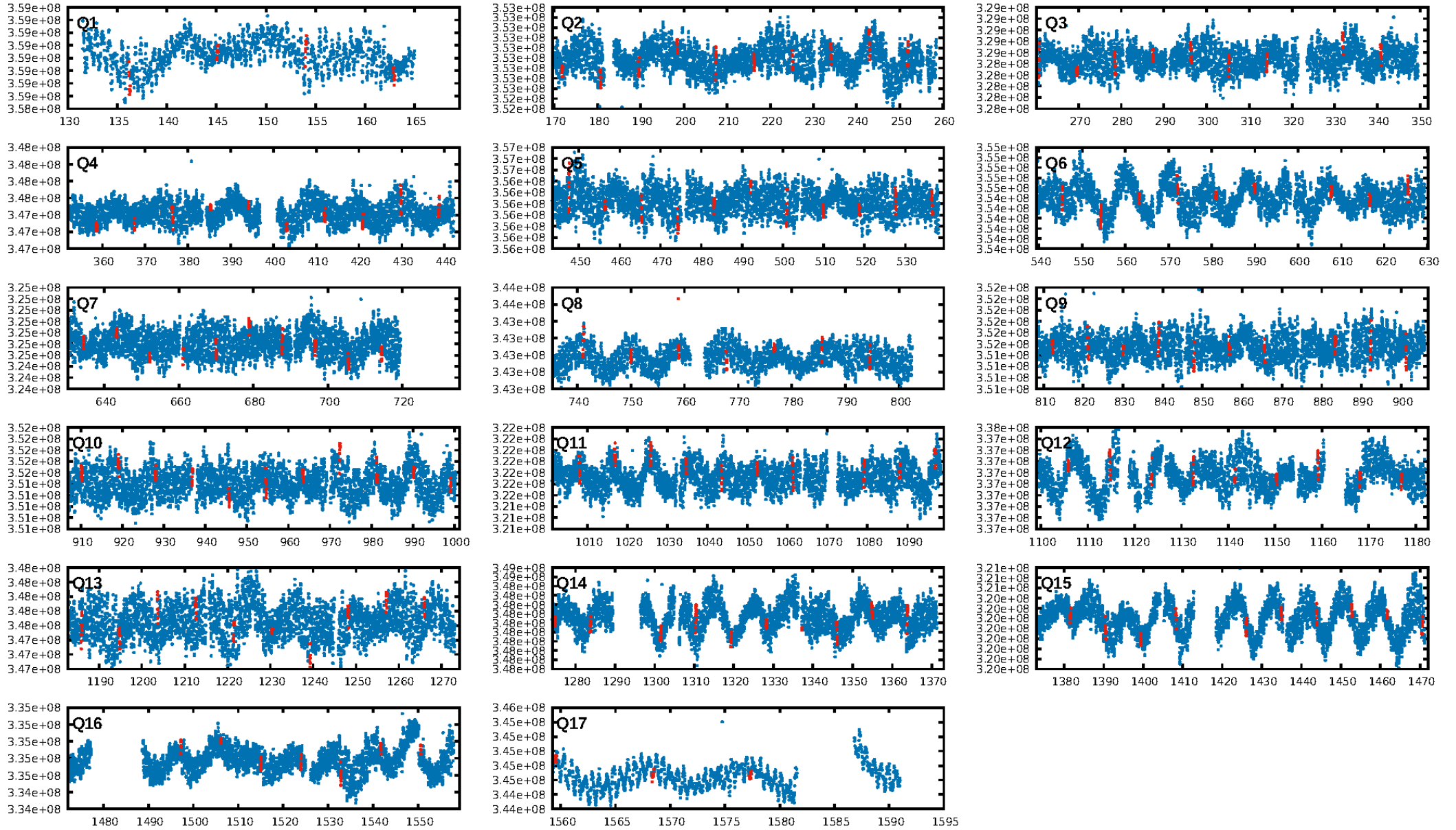
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [66.61σ]
LongPeriod-sig: 100.0% [6.20σ]
ModelChiSquare2-sig: 34.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.55e-11
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: -0.9174
Centroid-sig: N/A
Centroid-so: 1.009 arcsec [2.93σ]
OotOffset-rm: 12.756 arcsec [4.16σ]
KicOffset-rm: 12.683 arcsec [4.58σ]
OotOffset-st: 1/3/2/1 [7]
KicOffset-st: 1/3/2/1 [7]
DiffImageQuality-fgm: 0.71 [5/7]
DiffImageOverlap-fno: 0.00 [0/17]

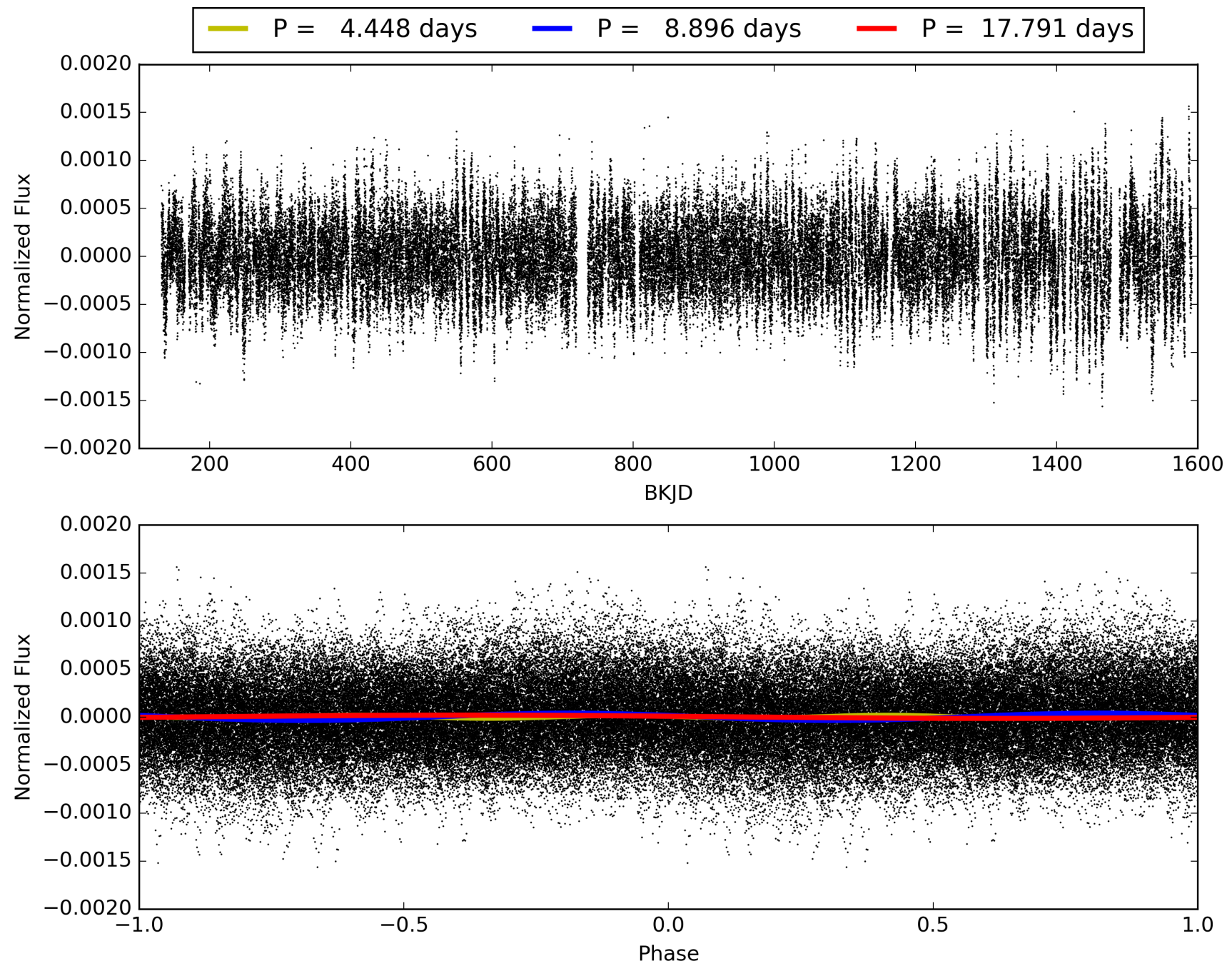
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:29:58 Z

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

TCE 005894044-06, PDC Light Curves

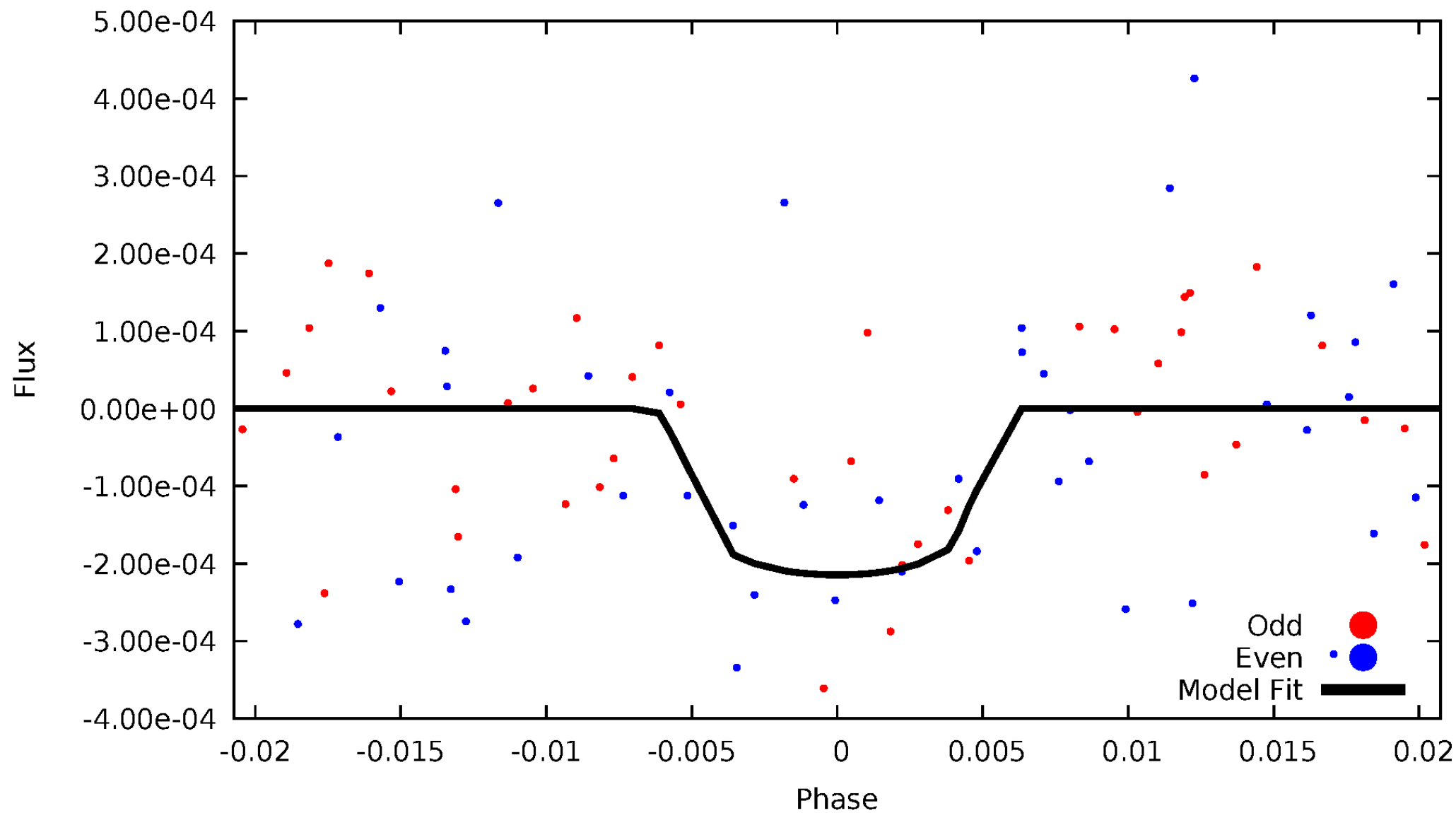


TCE 005894044-06



DV Odd/Even

TCE 005894044-06

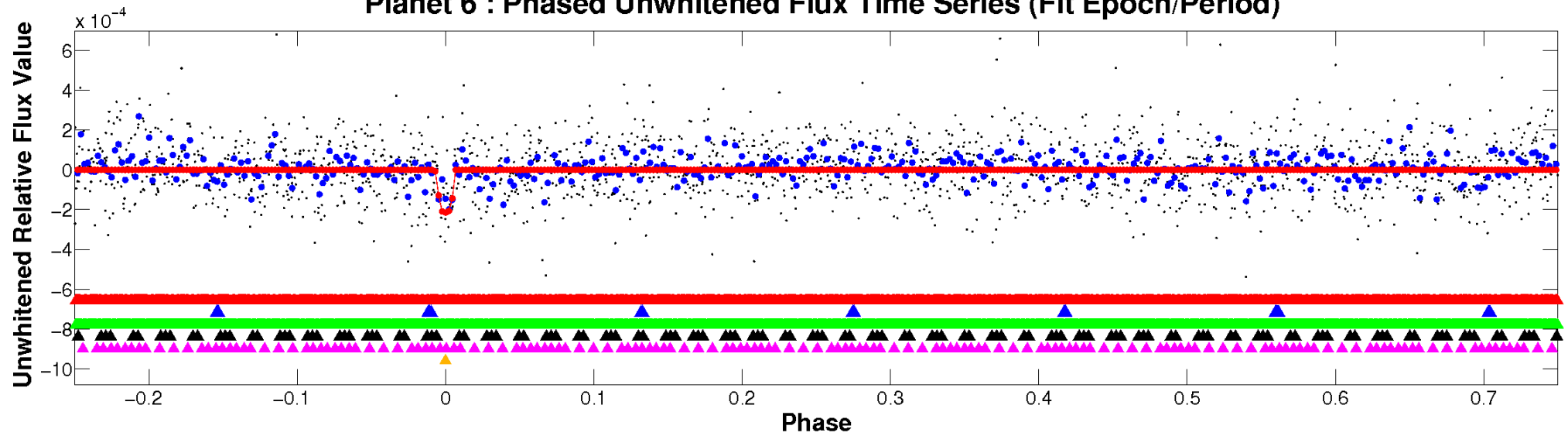


ALT Odd/Even

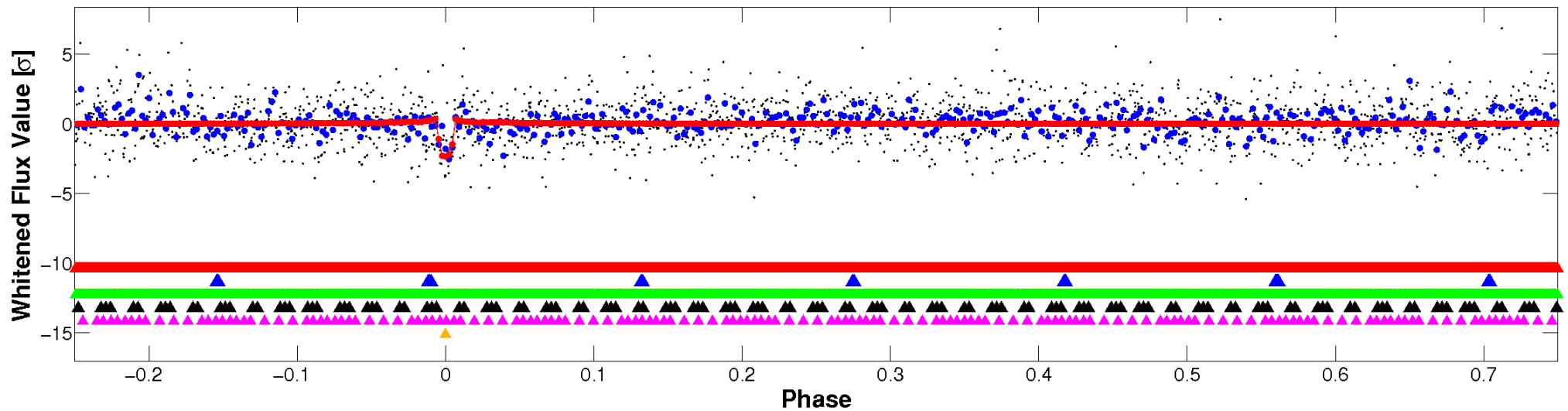
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

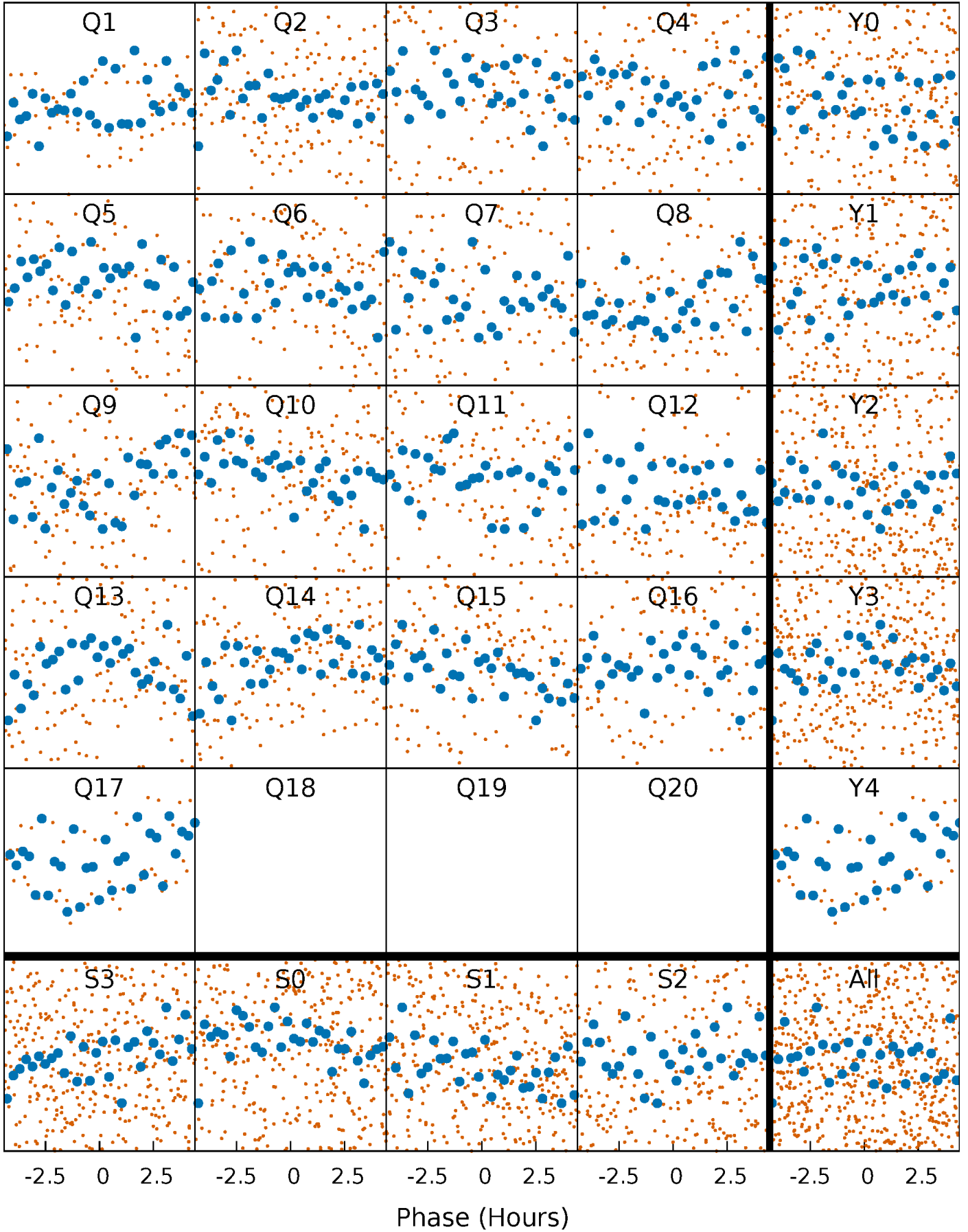


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



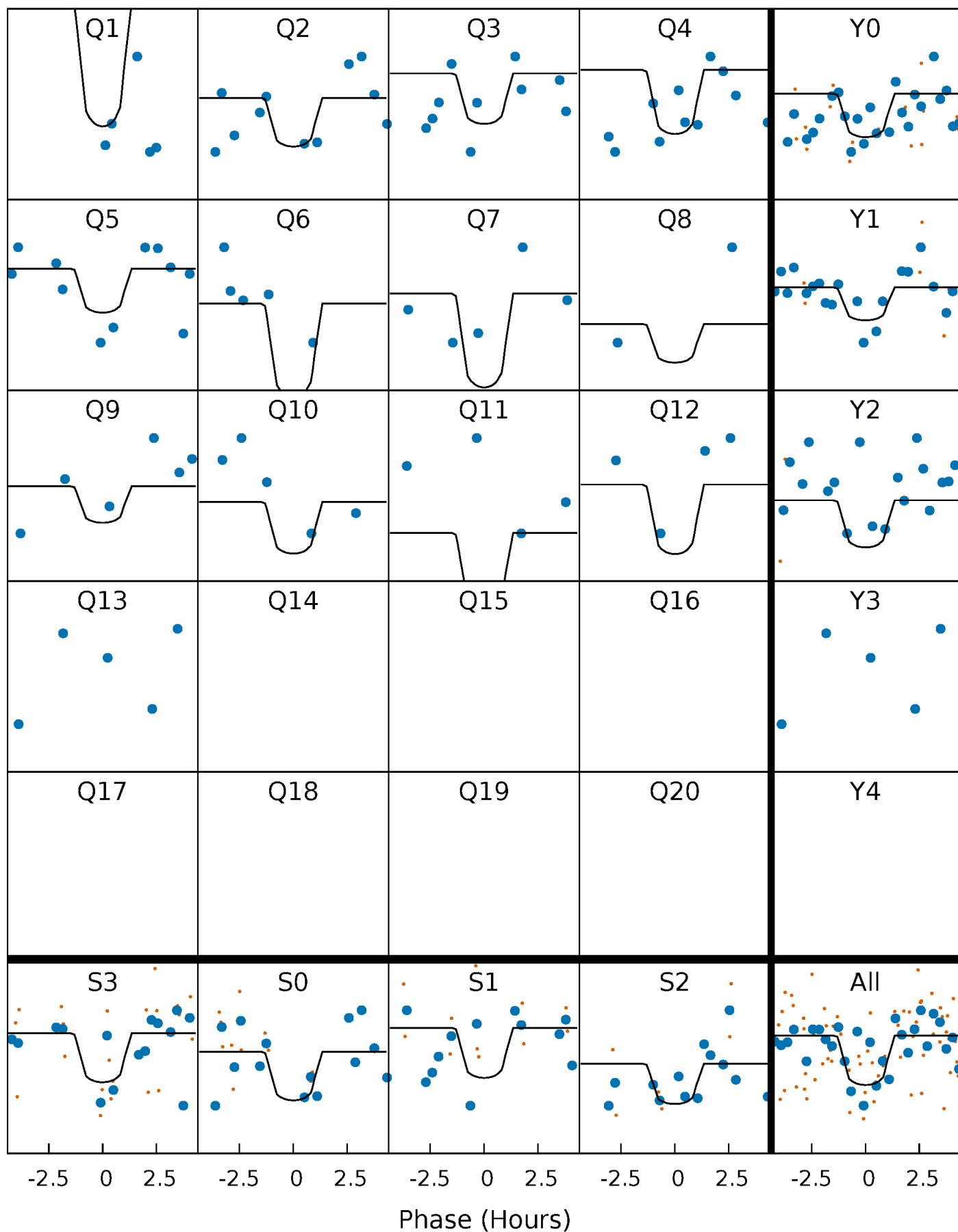
PDC Quarter-Phased Transit Curves

TCE 005894044-06 P= 8.895671 Days $T_0=136.212688$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005894044-06 P= 8.895671 Days $T_0=136.212688$ (BKJD)

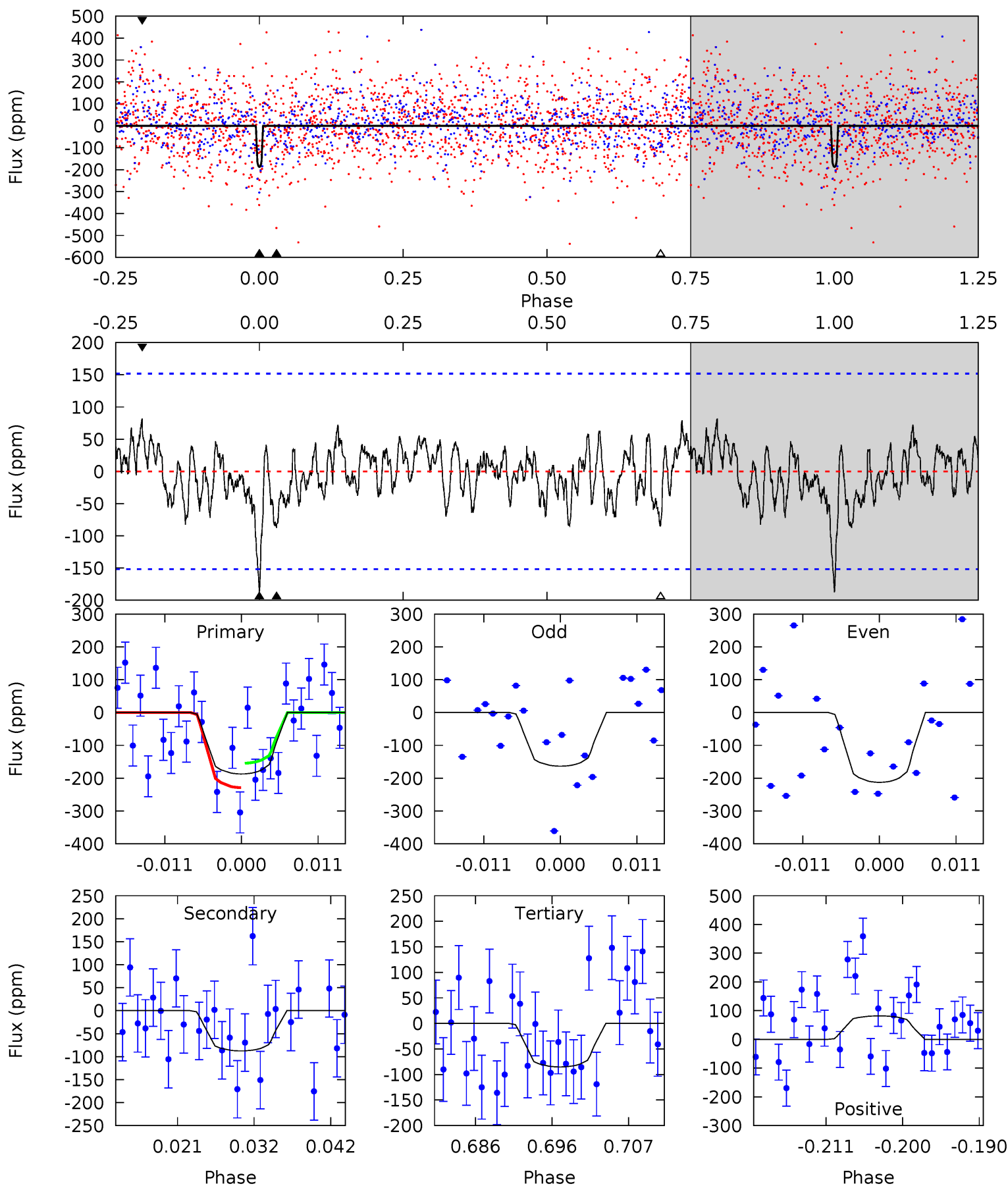


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005894044-06, P = 8.895671 Days, E = 127.317017 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.19	2.89	2.82	2.70	5.02	2.56	1.10	3.37	3.49	0.08	0.19	0.81	0.99	0.30	1.24



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005894044

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6748^{+162}_{-202}	$3.371^{+0.456}_{-0.048}$	$-0.240^{+0.300}_{-0.250}$	$4.826^{+0.254}_{-2.285}$	$1.998^{+0.152}_{-0.455}$	$0.025^{+0.101}_{-0.004}$
	+2%/-3%	+14%/-1%	+125%/-104%	+5%/-47%	+8%/-23%	+405%/-16%
Source	PHO1	FLK73	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 005894044-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-88 ± 30	$10.88^{+10.44}_{-7.63}$	2748^{+134}_{-327}	4352^{+3360}_{-1021}	$4.219^{+42.598}_{-3.188}$
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

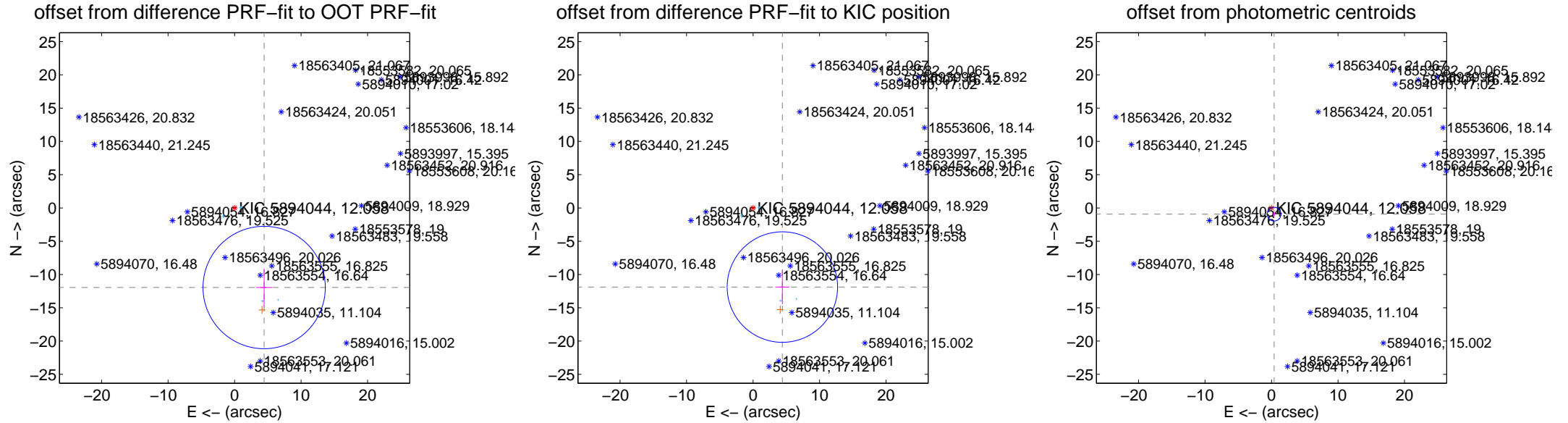
DV Centroid Data

Supplemental centroid analysis for 005894044-06. Kepler magnitude: 12.06. Transit SNR 8.76

There are 5 quarters with good PRF difference image offsets

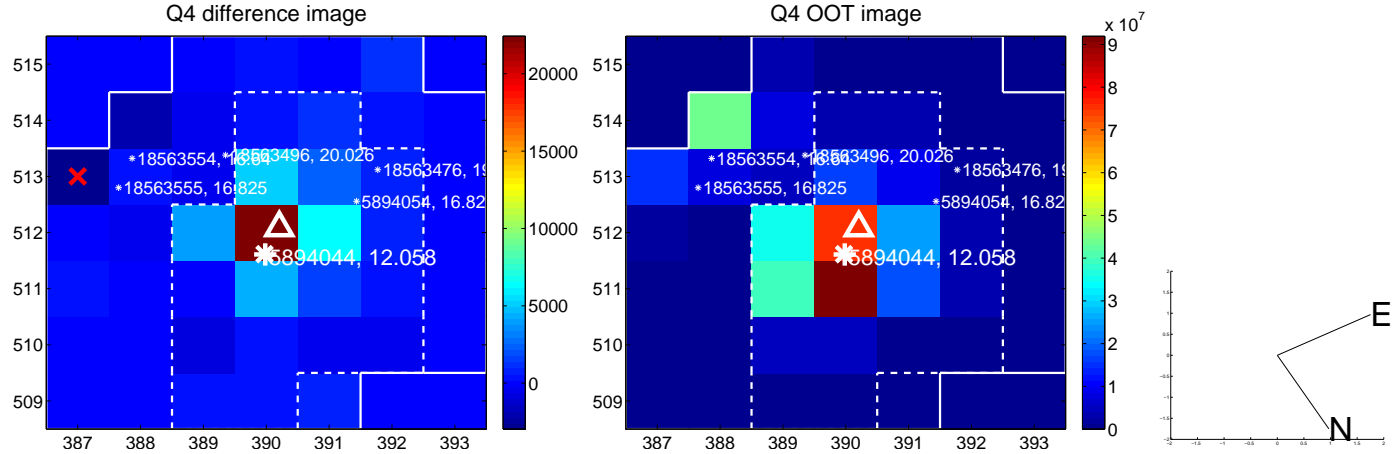
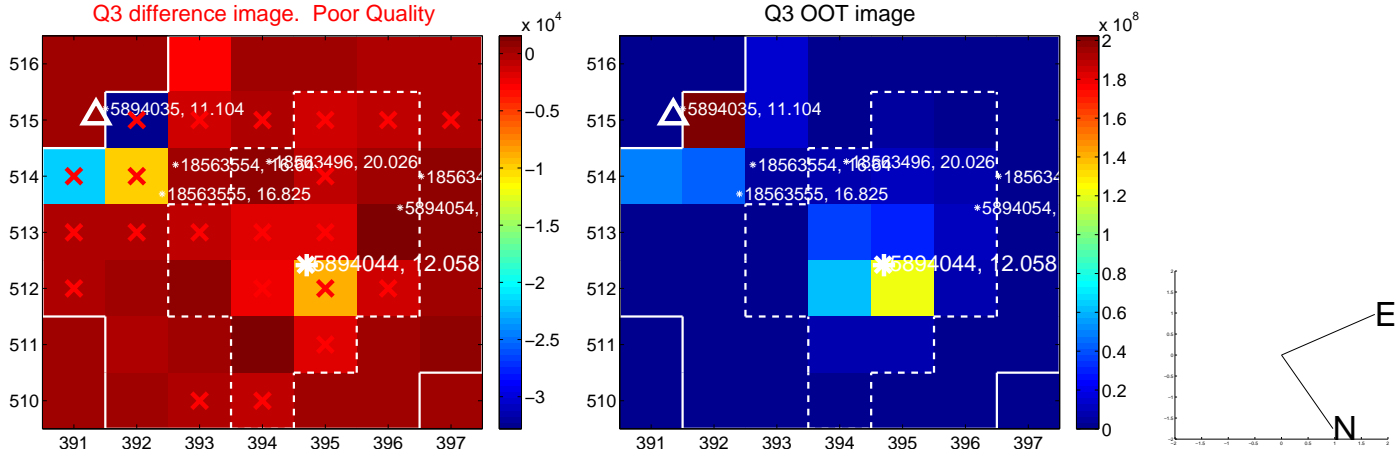
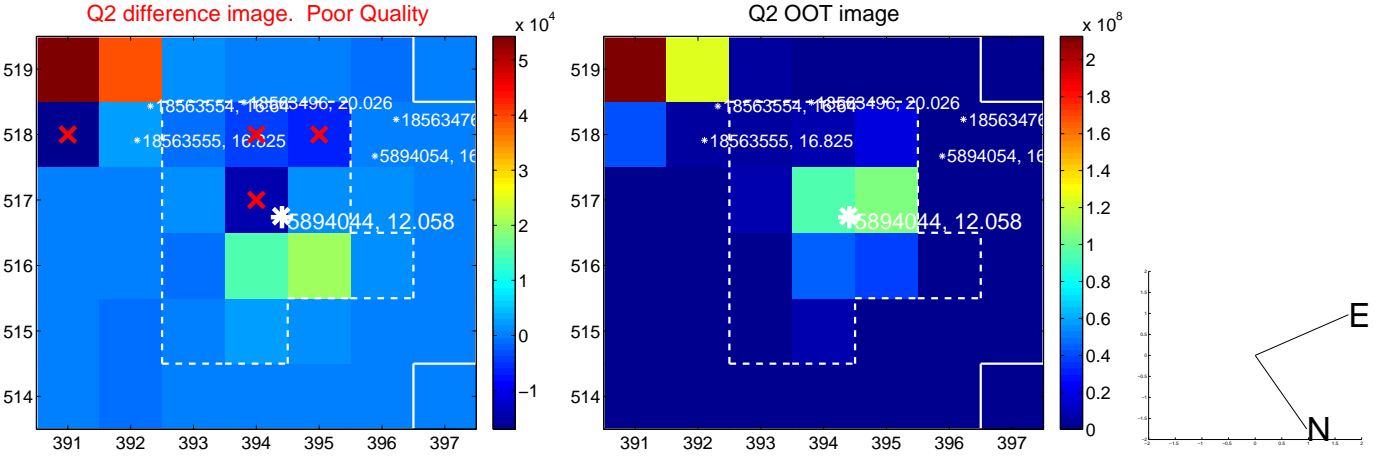
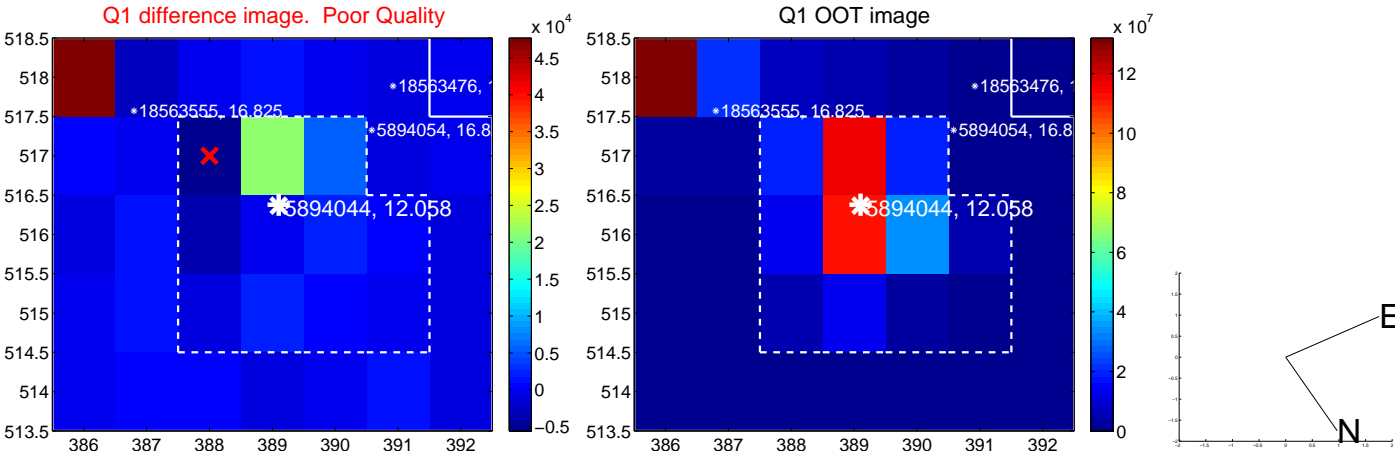
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	12.756 \pm 3.066	4.16	-4.448 \pm 1.209	-11.955 \pm 2.849
PRF-fit source offset from KIC position	12.683 \pm 2.768	4.58	-4.413 \pm 1.067	-11.891 \pm 2.592
photometric centroid source offset	1.01 \pm 0.34	2.93	-0.39 \pm 0.25	-0.93 \pm 0.36

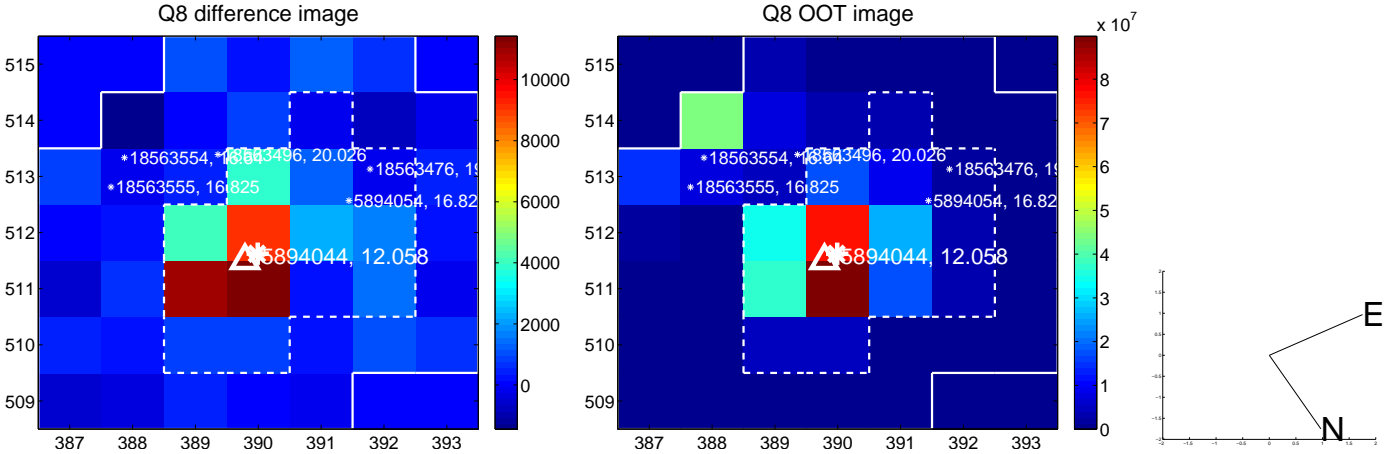
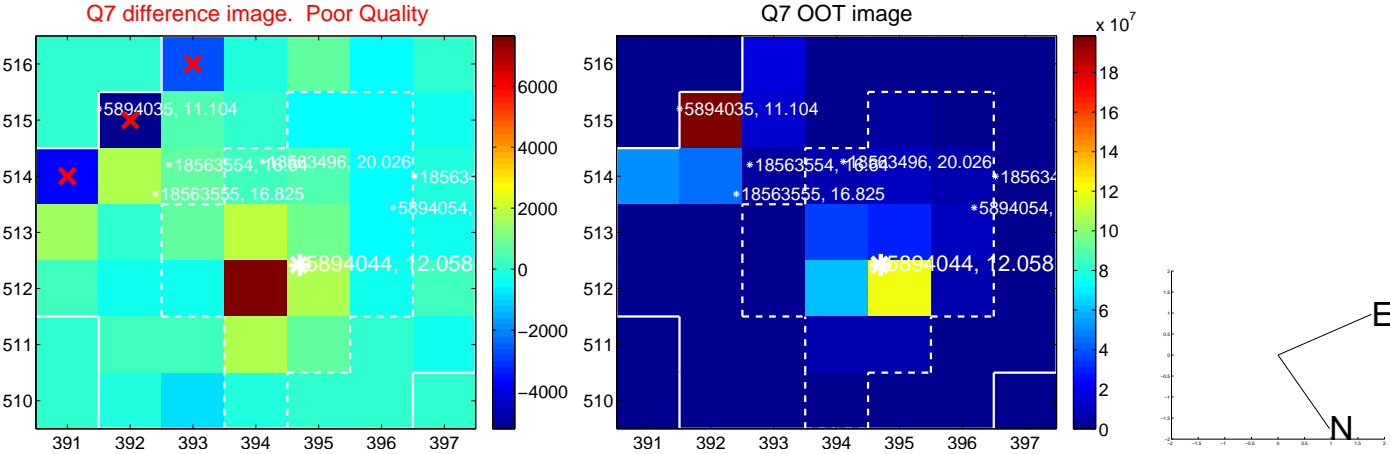
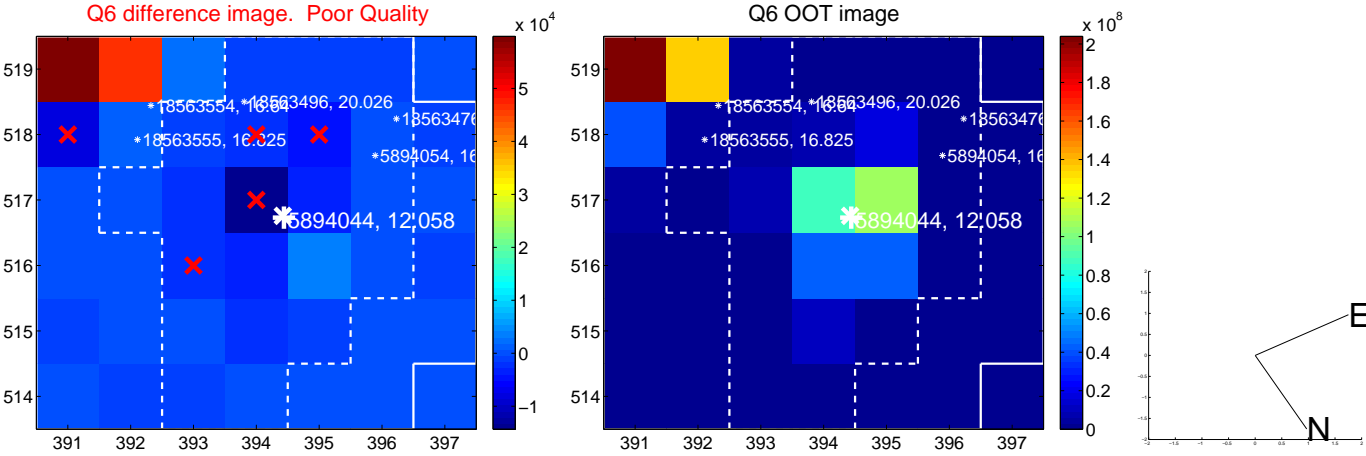
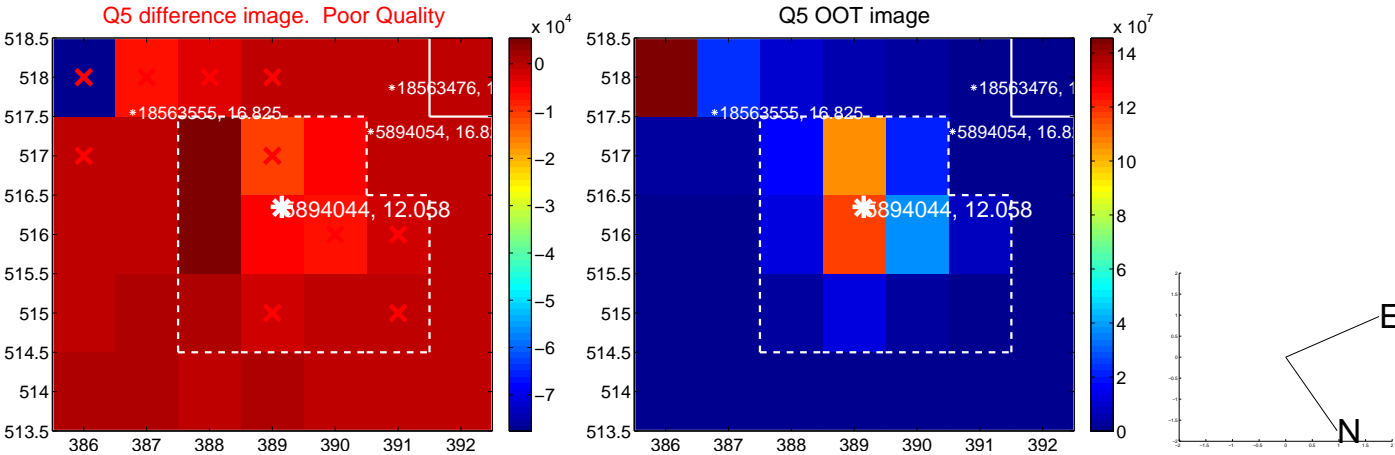


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

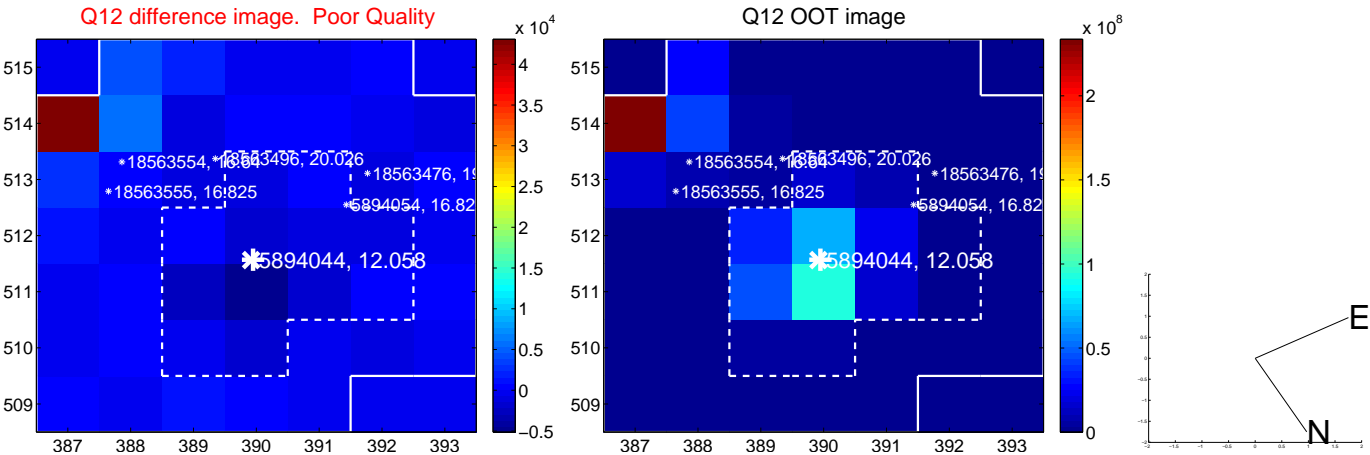
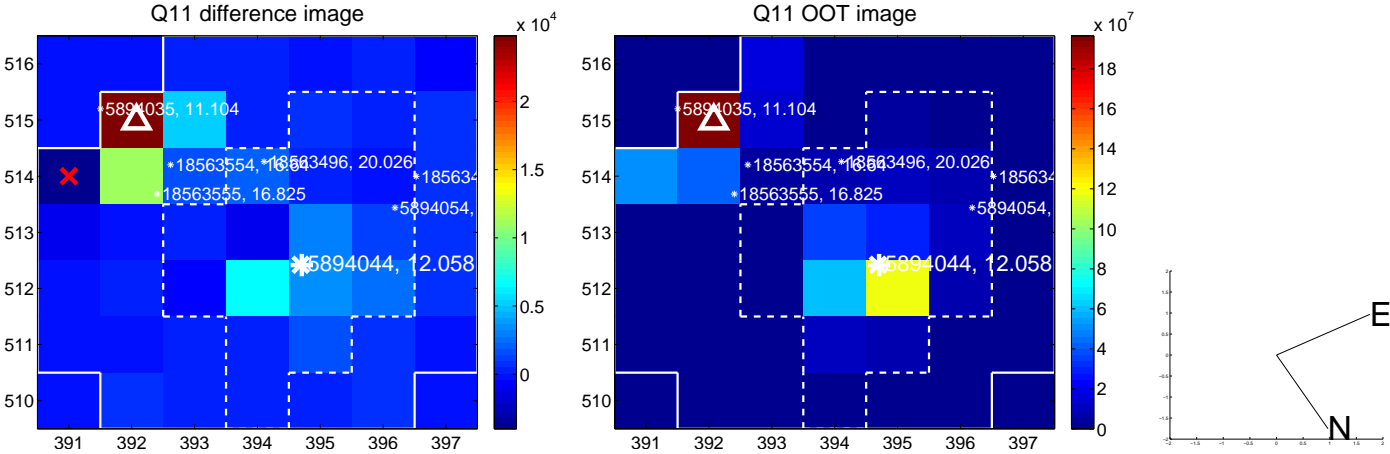
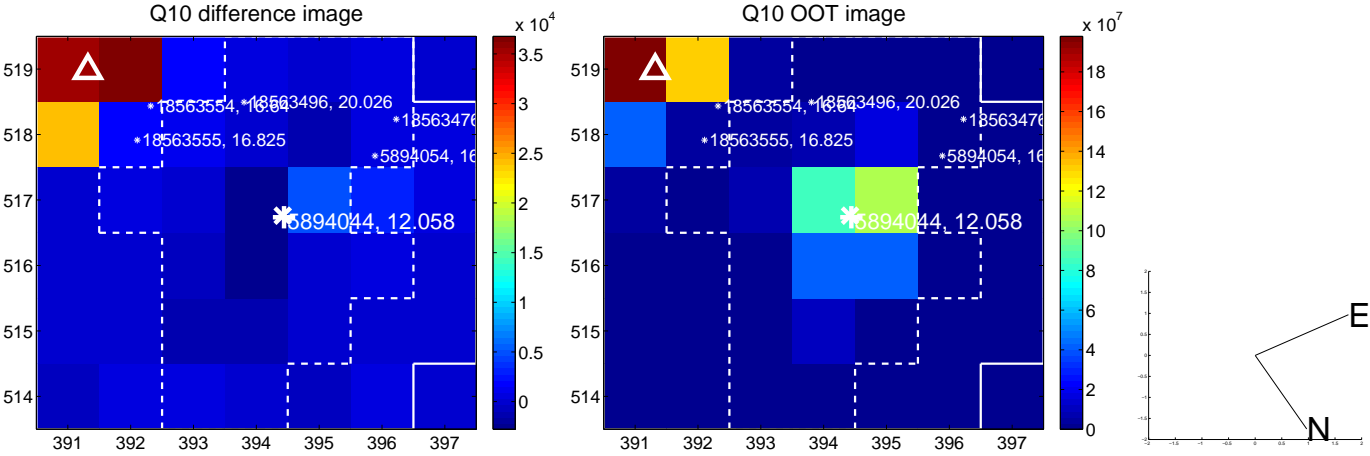
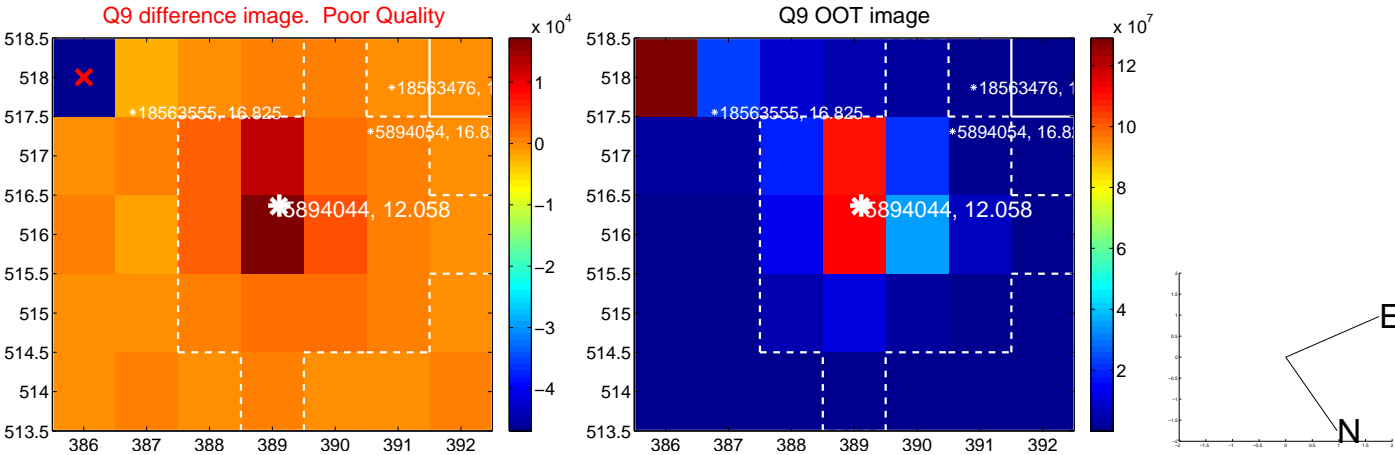
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



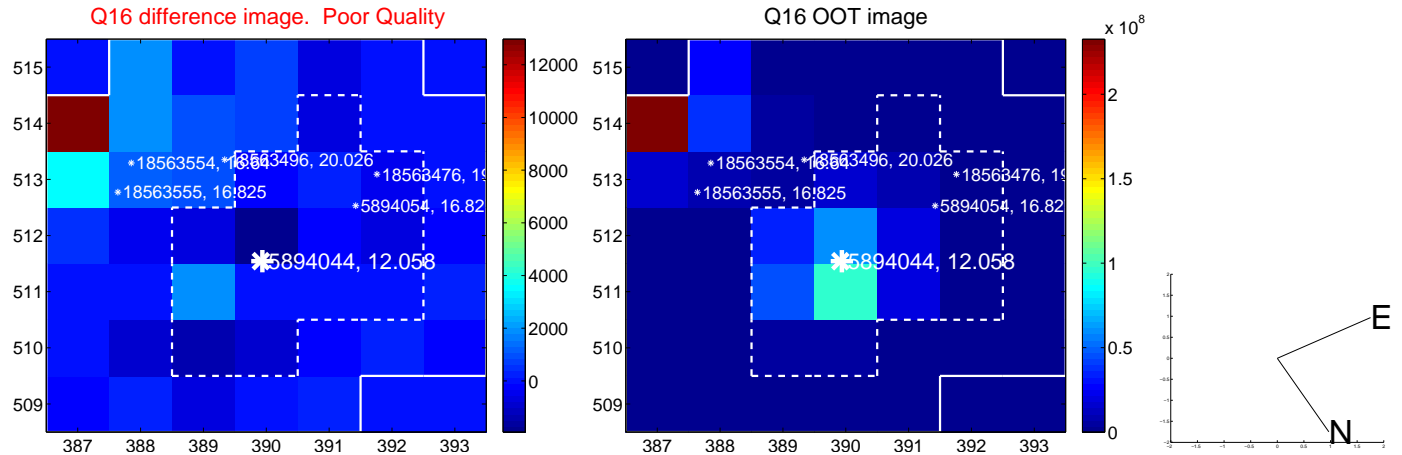
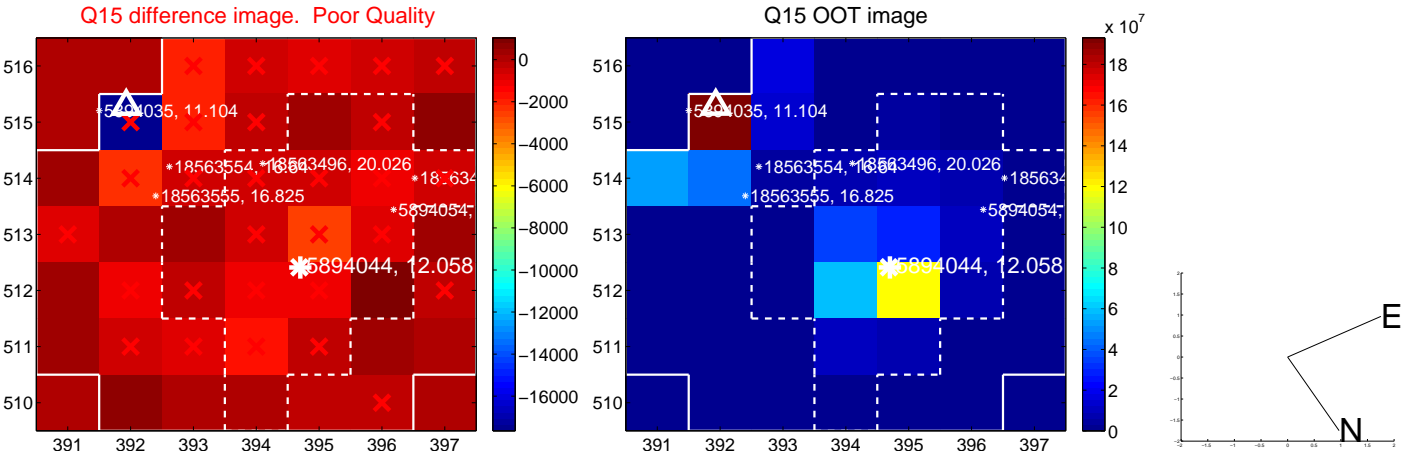
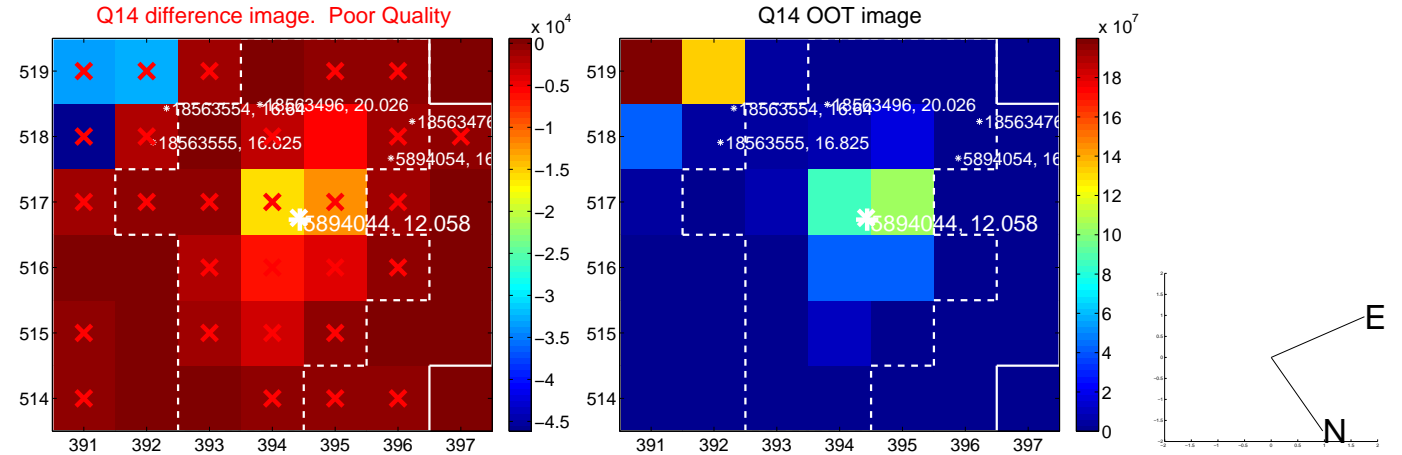
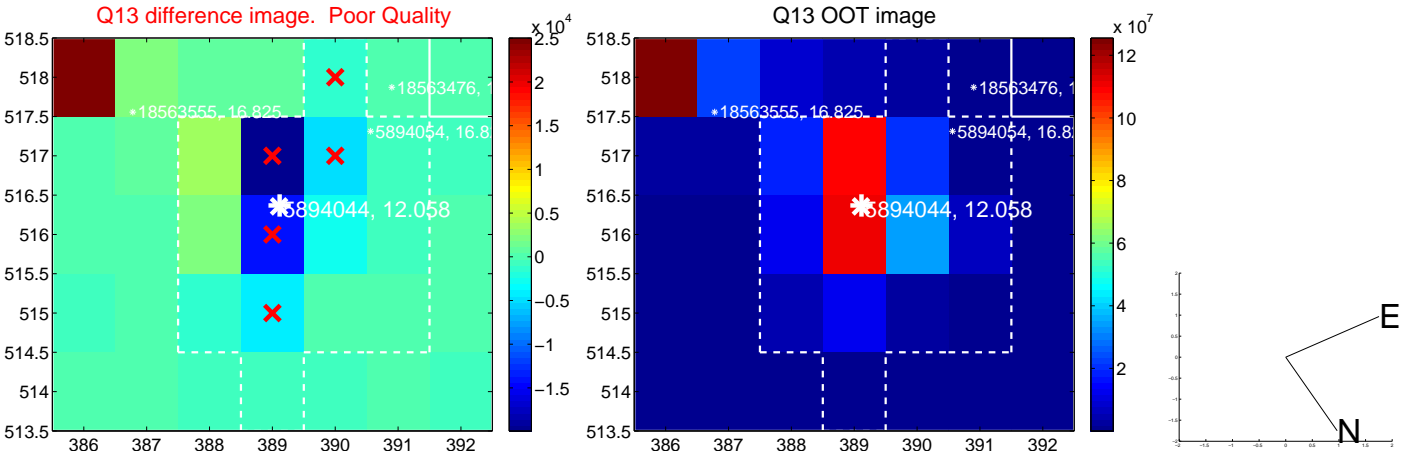
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

