

KIC 003547692

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})
003547692-01	OBS	No	1.153079	131.633595	281.6	3.500	9.6	-1.0	1.15	6484	1.95	4070.74
003547692-02	OBS	No	1.152894	132.391682	0.0	3.094	8.3	0.0	1.15	6484	0.01	4071.61

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003547692-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
003547692-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—LPP_ALT—SAME_NTL_PERIOD

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

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

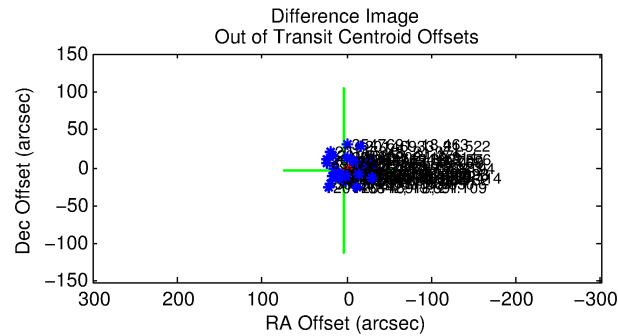
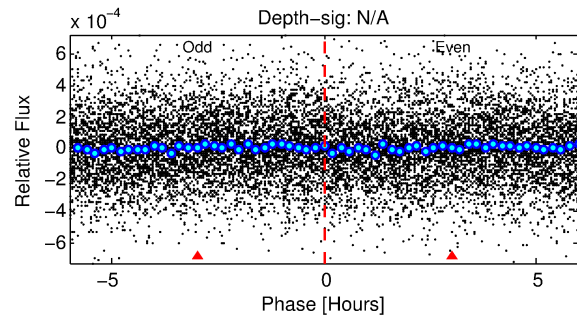
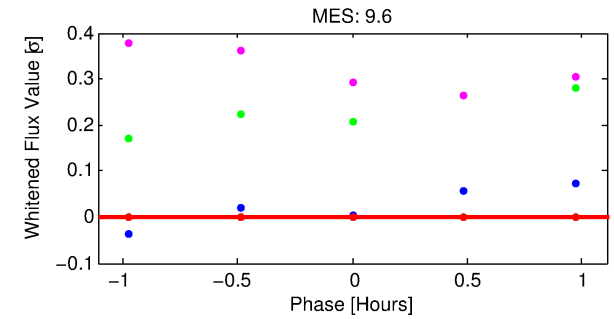
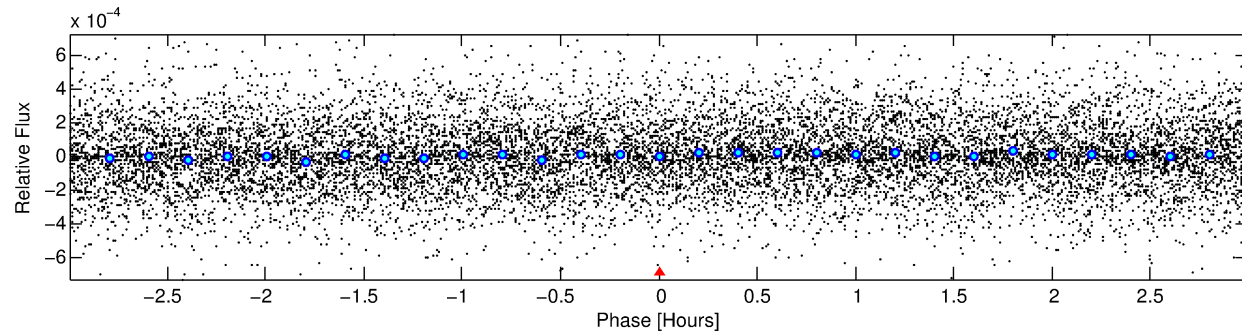
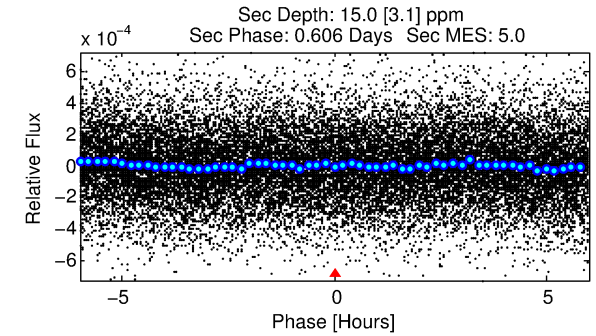
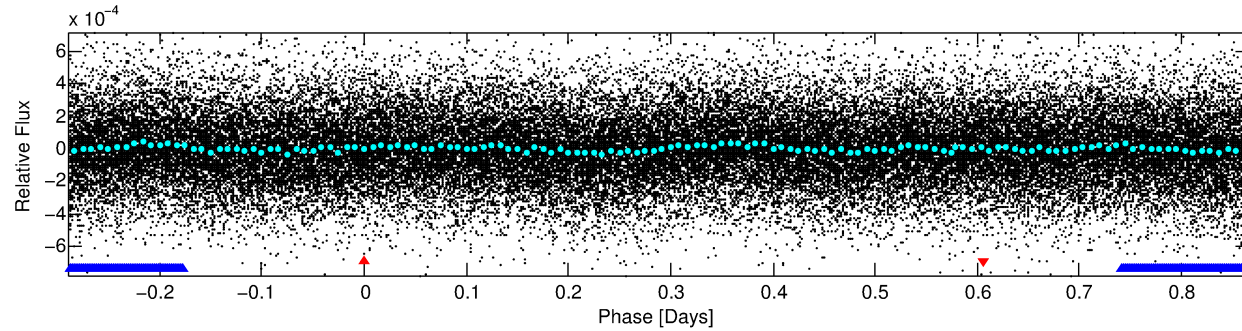
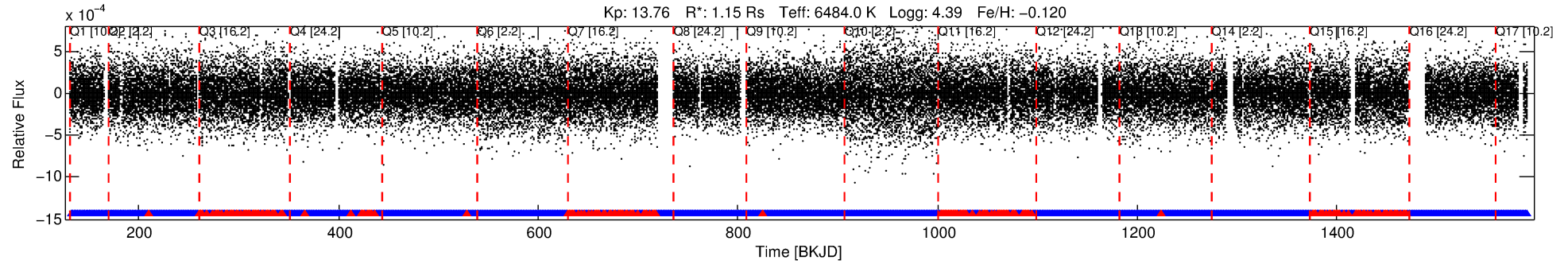
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003547692-01

No Significant Match Found

DV One-Page Summary

KIC: 3547692 Candidate: 1 of 2 Period: 1.153 d



TPS TCE Results:

Period = 1.15308 d
Epoch = 131.6336 BKJD

DV fit results are unavailable

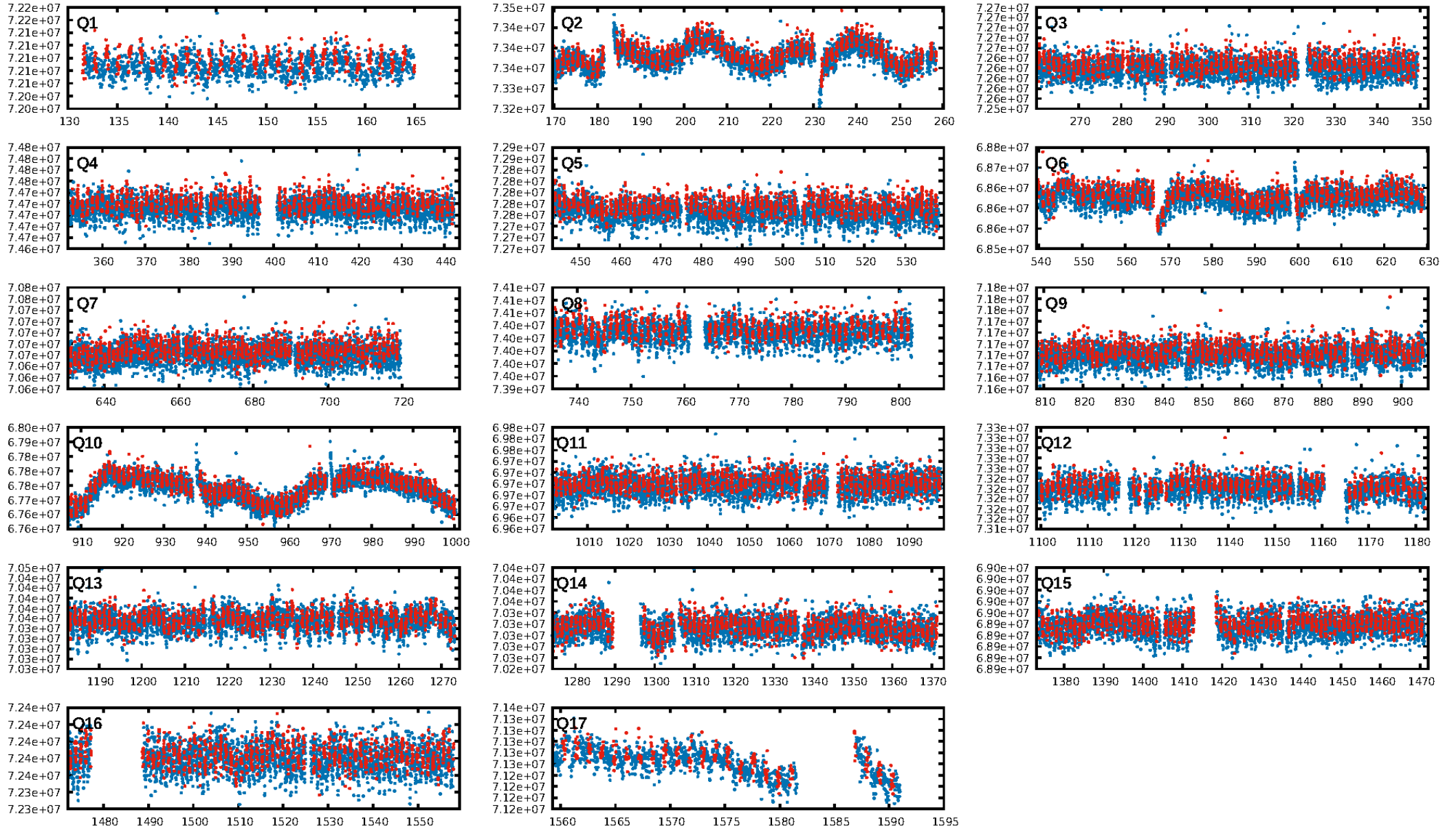
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.33e-19
RollingBand-fgt: 0.82 [911/1105]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.492 arcsec [0.09σ]
KicOffset-rm: 0.447 arcsec [0.09σ]
OotOffset-st: 2/4/3/5 [14]
KicOffset-st: 2/4/3/5 [14]
DiffImageQuality-fgm: 0.21 [3/14]
DiffImageOverlap-fno: 0.59 [10/17]

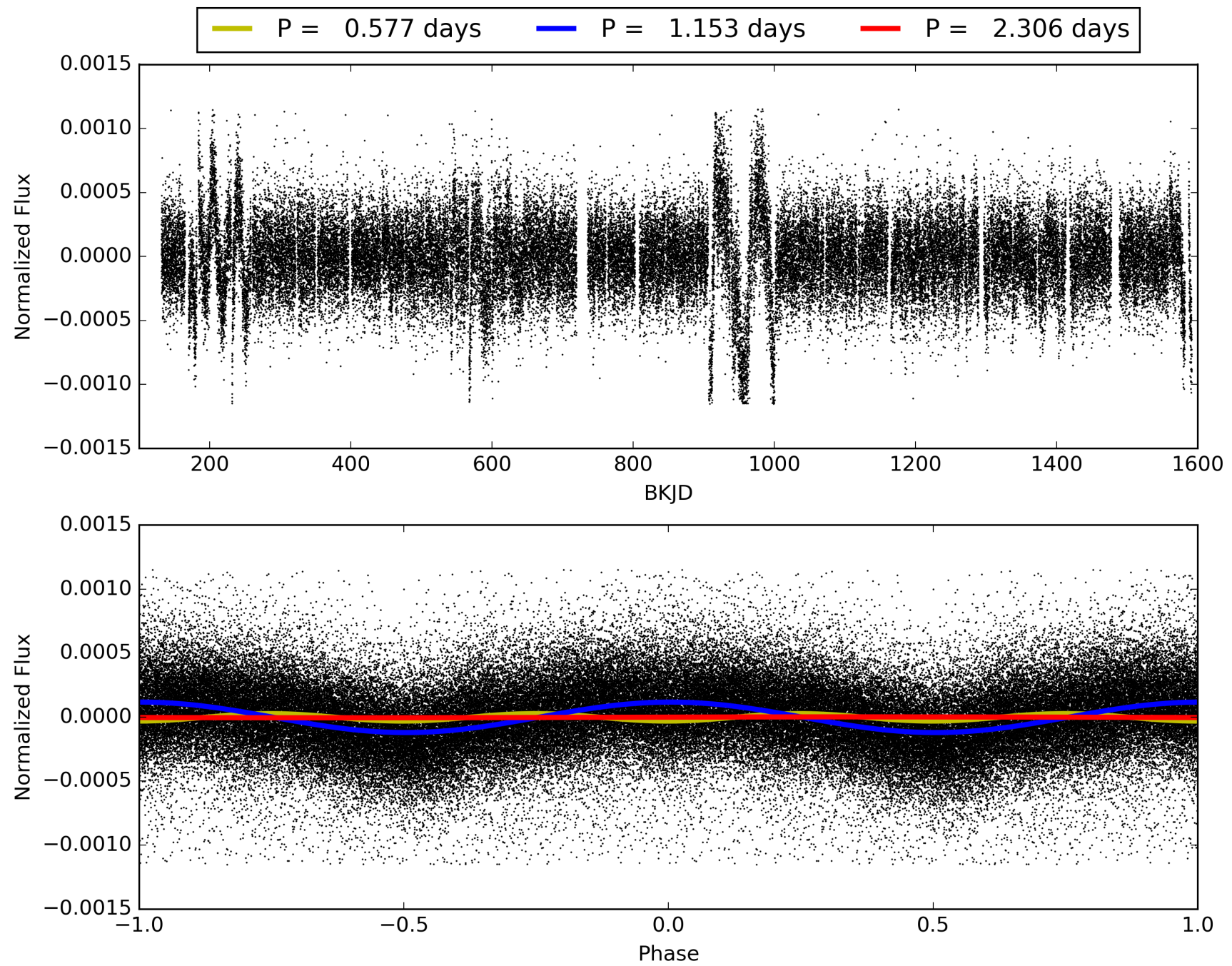
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 003547692-01, PDC Light Curves

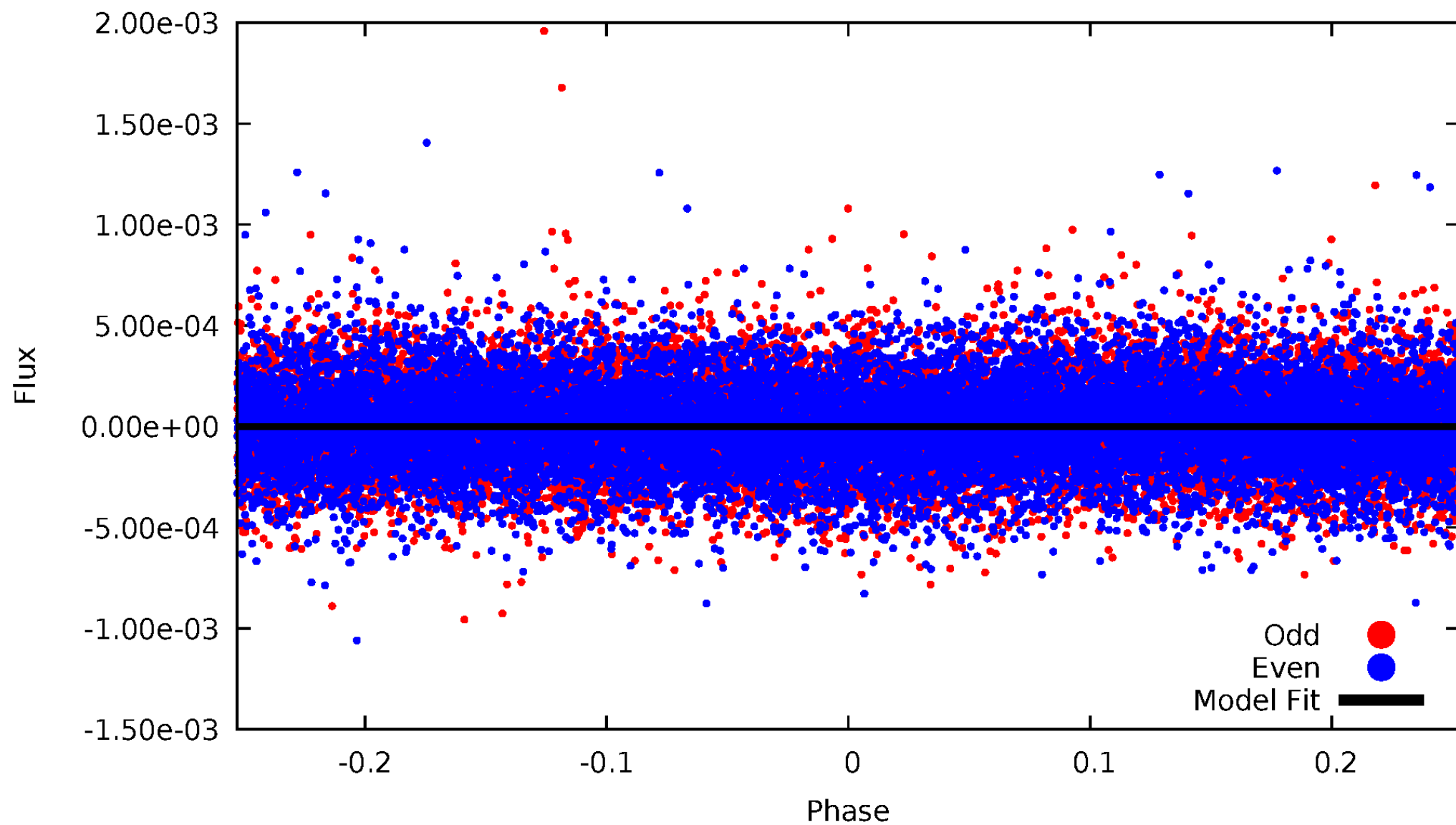


TCE 003547692-01



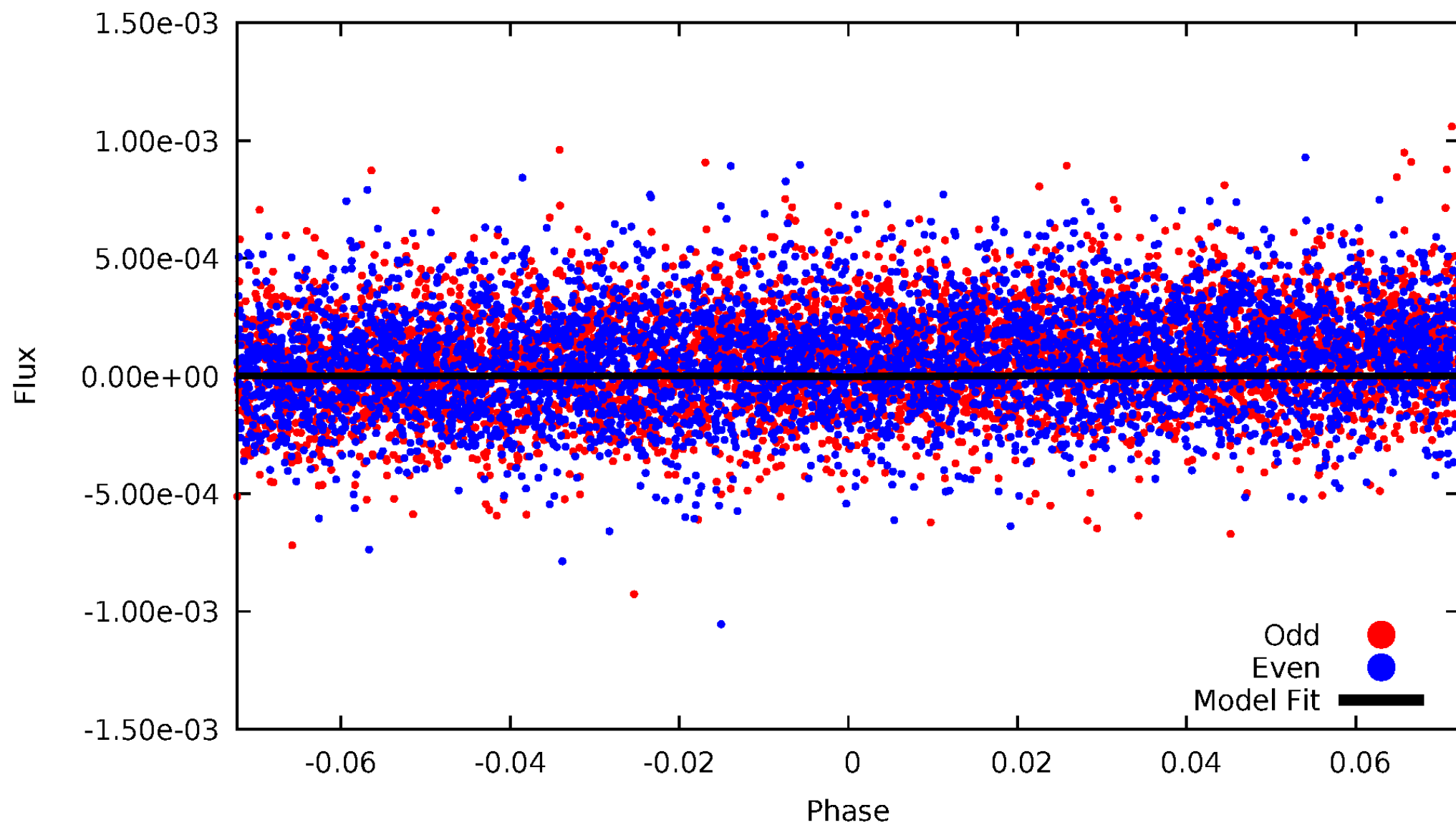
DV Odd/Even

TCE 003547692-01

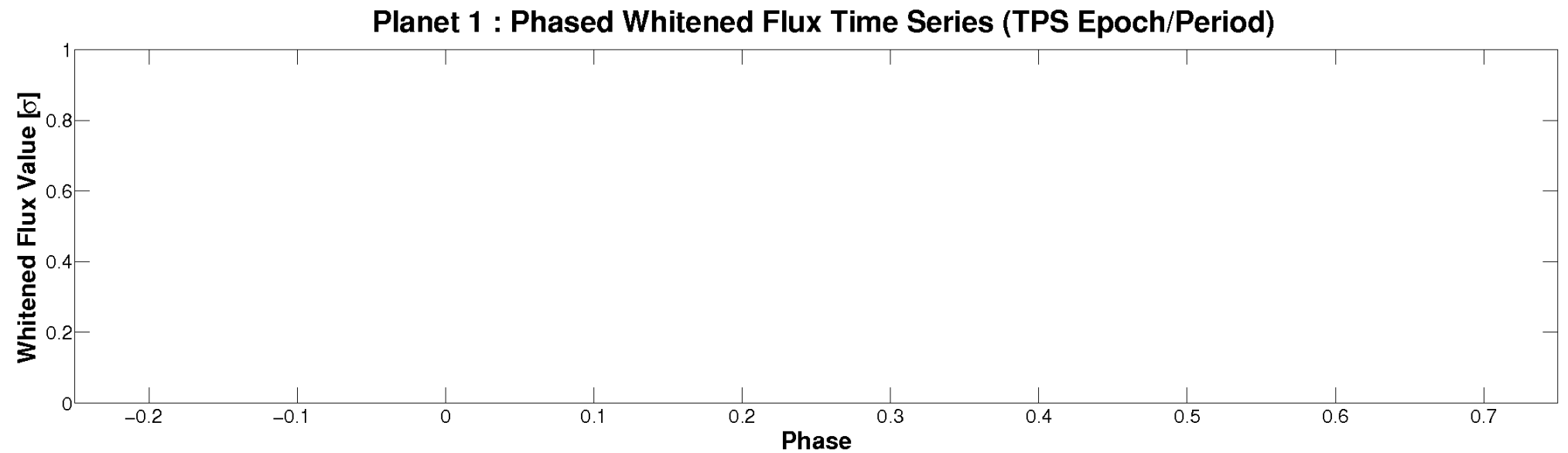
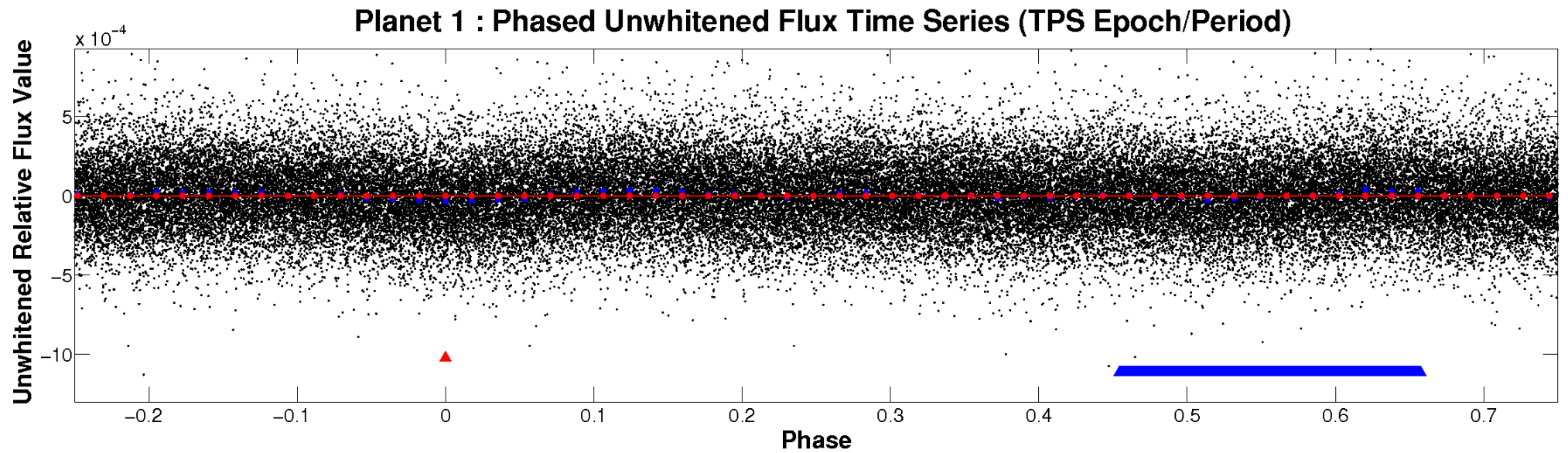


ALT Odd/Even

TCE 003547692-01

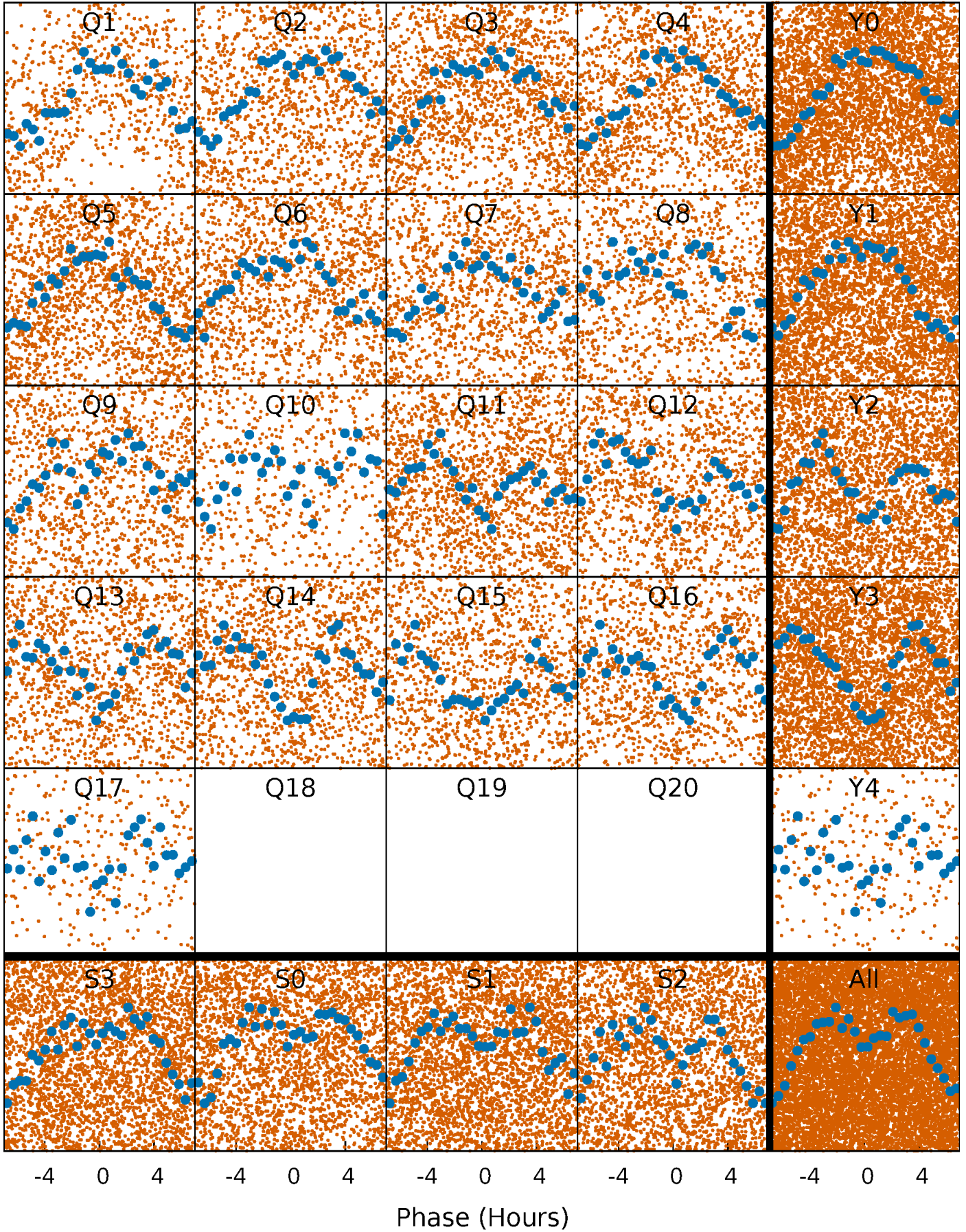


Non-Whitened Vs. Whitened Light Curve



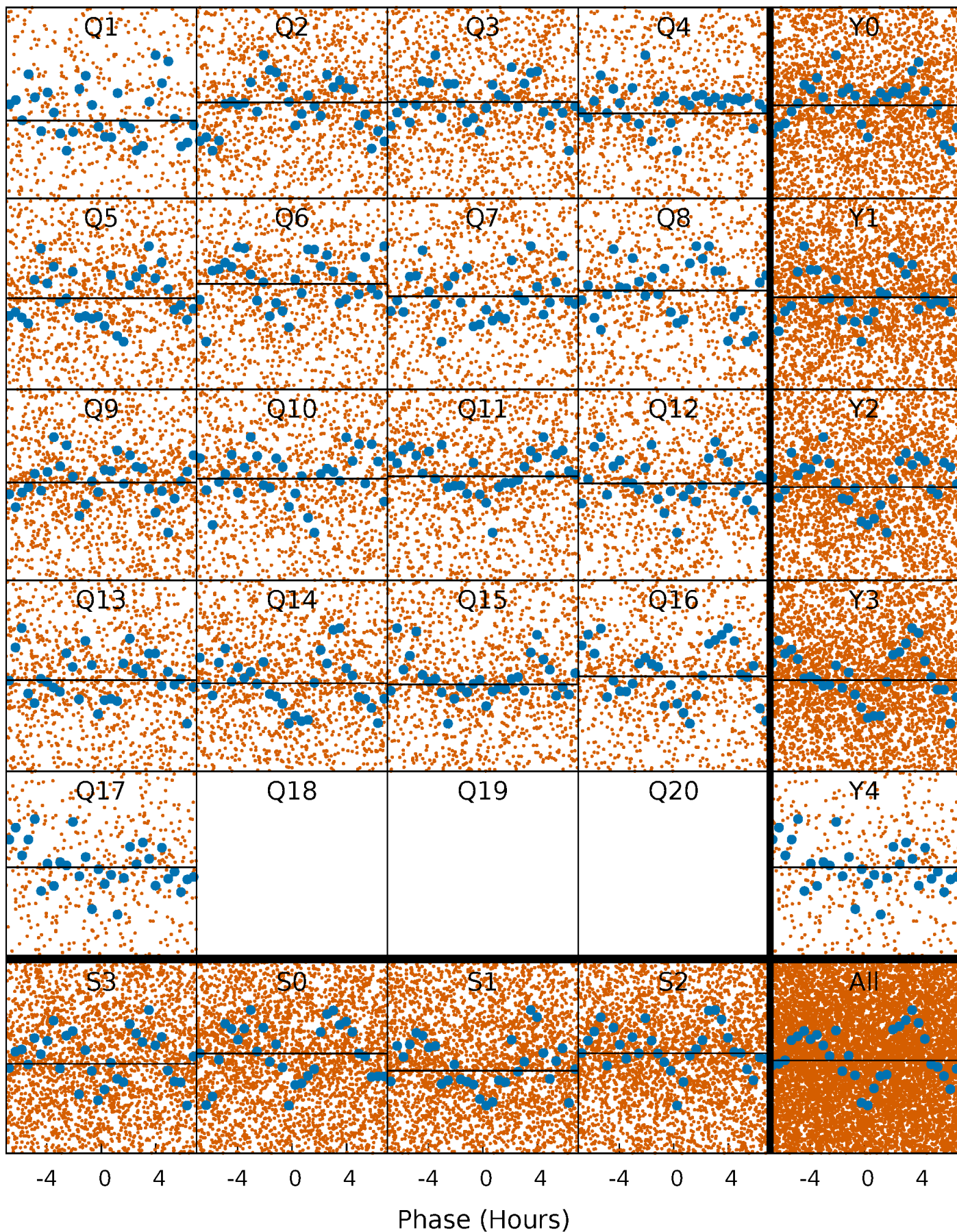
PDC Quarter-Phased Transit Curves

TCE 003547692-01 P= 1.153079 Days $T_0=131.633595$ (BKJD)



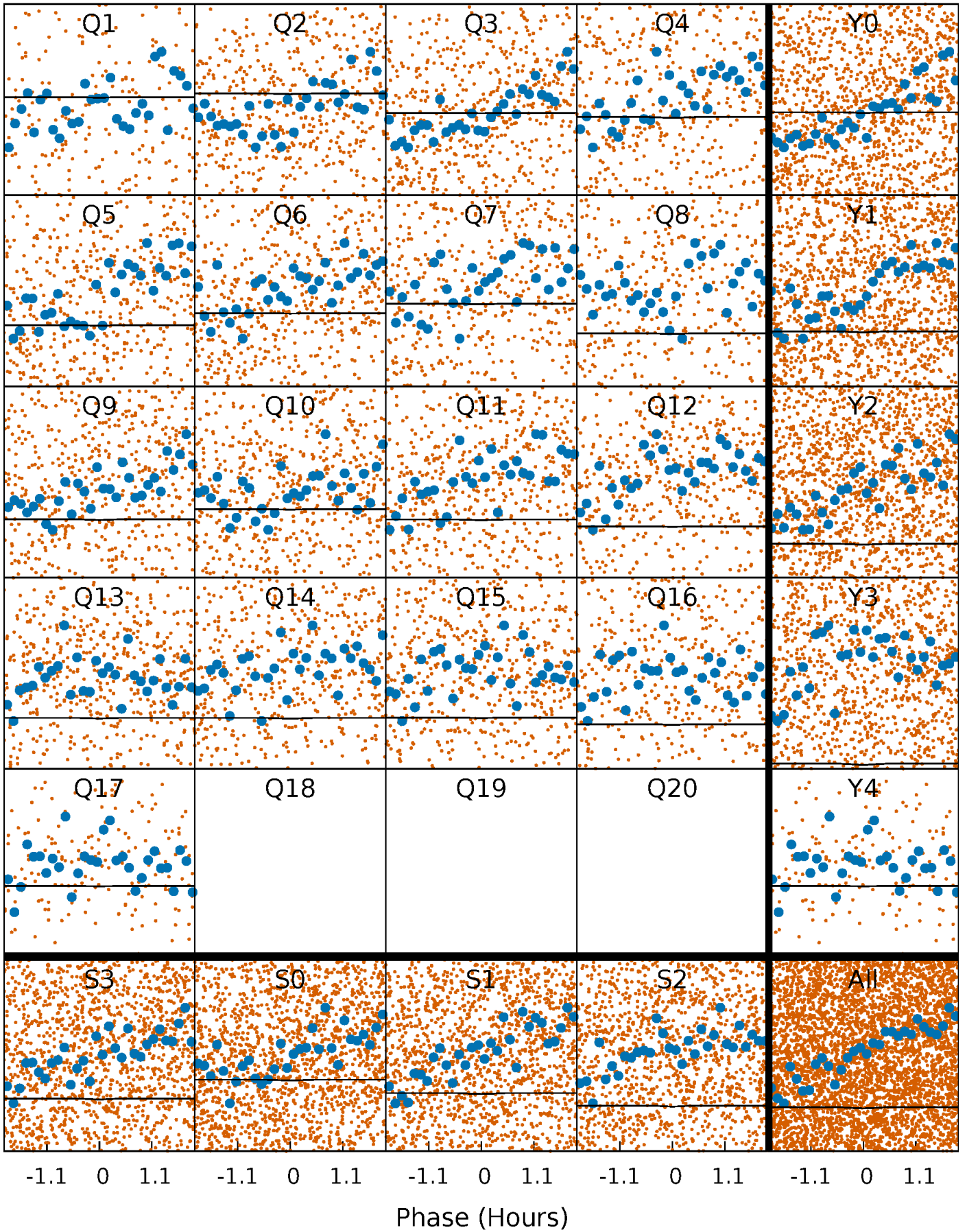
DV Quarter-Phased Transit Curves

TCE 003547692-01 P= 1.153079 Days $T_0=131.633595$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

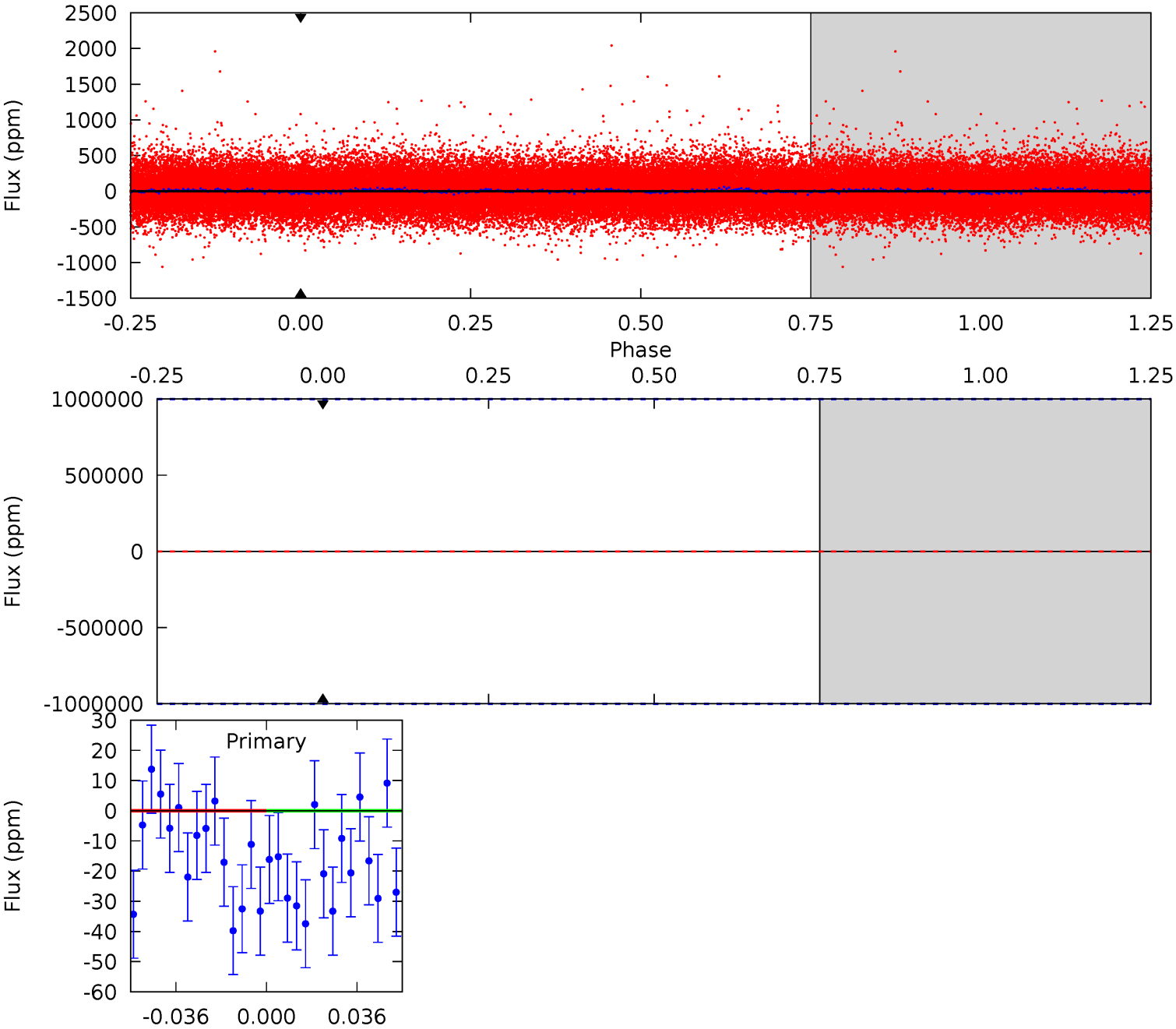
TCE 003547692-01 P= 1.153079 Days $T_0=132.569468$ (BKJD)



DV Model-Shift Uniqueness Test

003547692-01, P = 1.153079 Days, E = 130.480516 Days

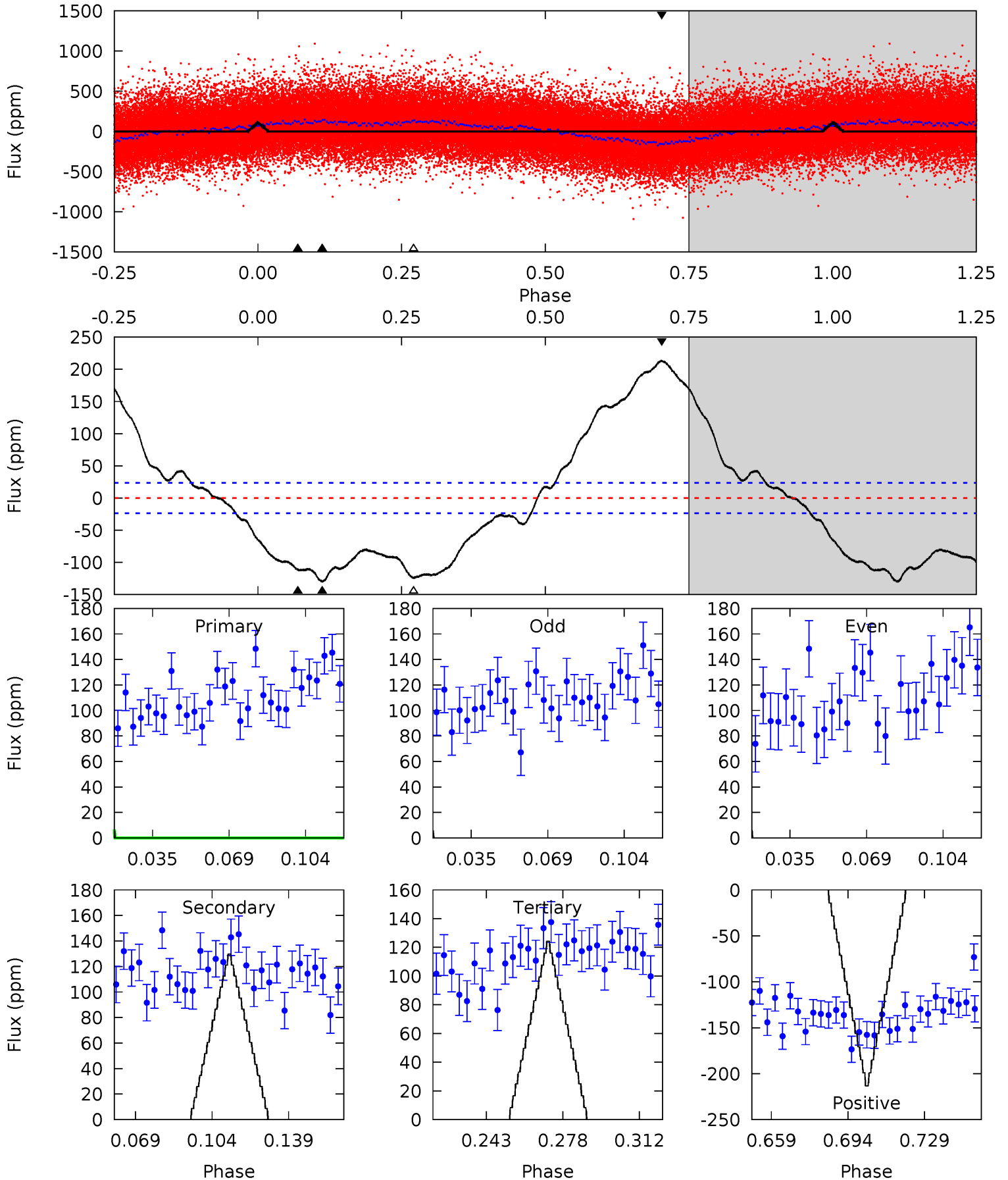
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

003547692-01, P = 1.153079 Days, E = 131.416389 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.6	26.3	25.2	43.3	4.78	2.11	20.5	-2.55	-20.6	1.11	-16.9	1.17	1.09	0.62	0.93



Stellar Parameters For KIC 003547692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6484^{+154}_{-193}	$4.386^{+0.062}_{-0.188}$	$-0.120^{+0.250}_{-0.300}$	$1.153^{+0.345}_{-0.138}$	$1.178^{+0.164}_{-0.148}$	$1.084^{+0.287}_{-0.548}$
	+2%/-3%	+1%/-4%	+208%/-250%	+30%/-12%	+14%/-13%	+27%/-51%
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 003547692-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$9.67^{+11.00}_{-6.96}$	2885^{+217}_{-132}	-4575^{+36289}_{-21963}	$-3.324^{+641.155}_{-523.326}$
Alt.	-130 ± 5	$8.56^{+9.51}_{-5.87}$	2889^{+180}_{-130}	2913^{+1981}_{-5756}	$0.512^{+4.480}_{-0.398}$

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

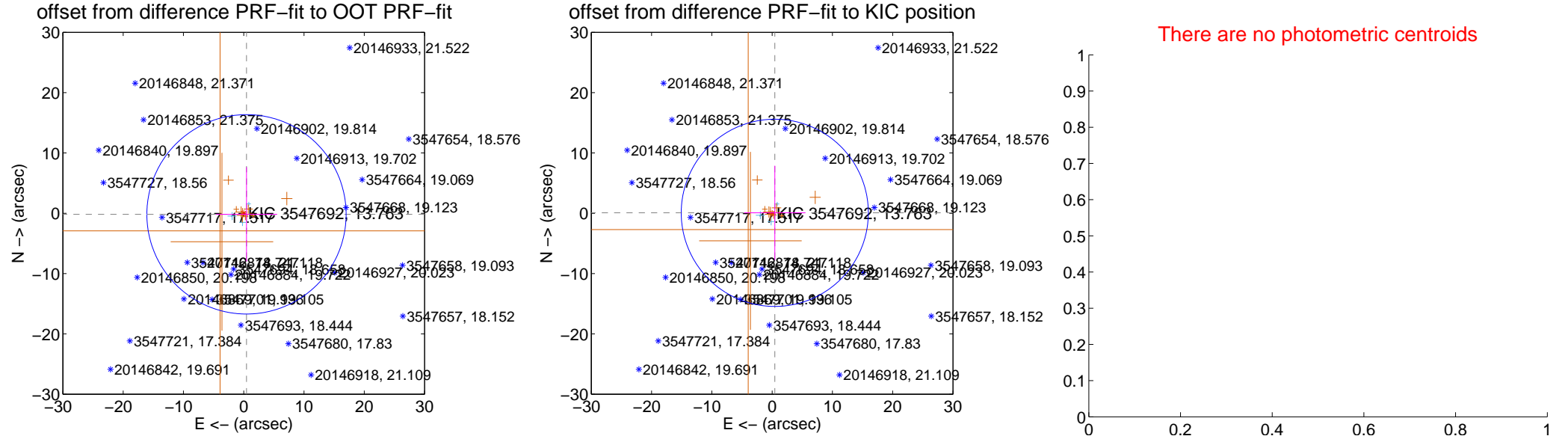
DV Centroid Data

Supplemental centroid analysis for 003547692-01. Kepler magnitude: 13.76. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

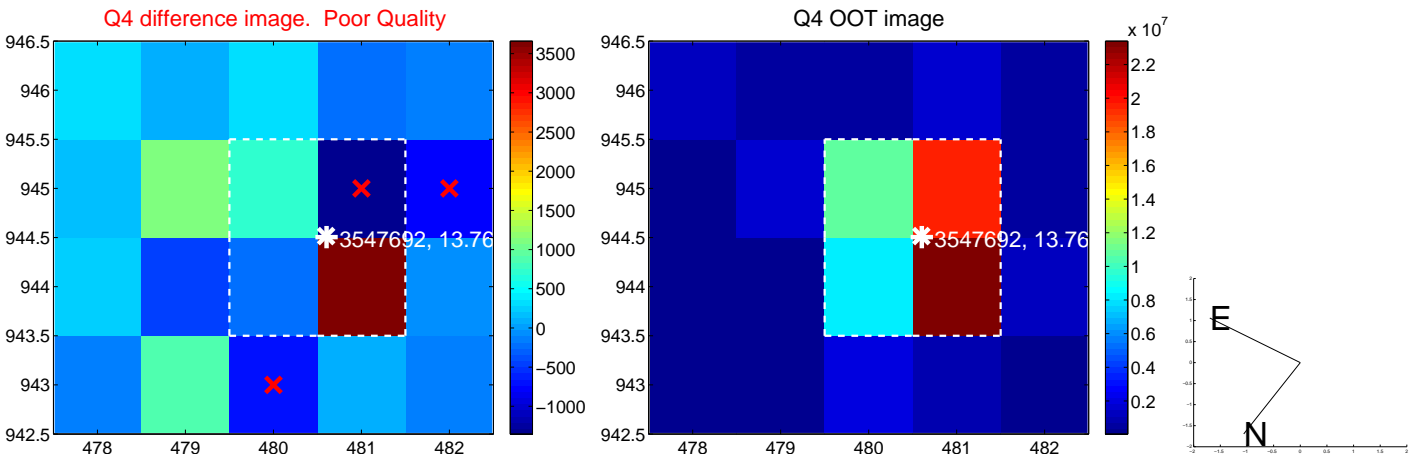
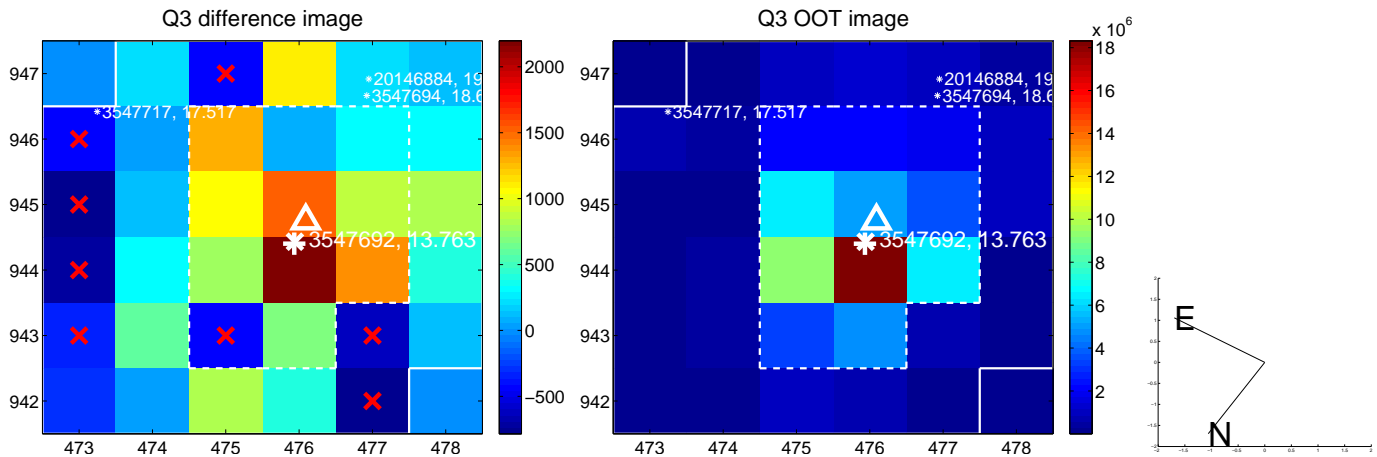
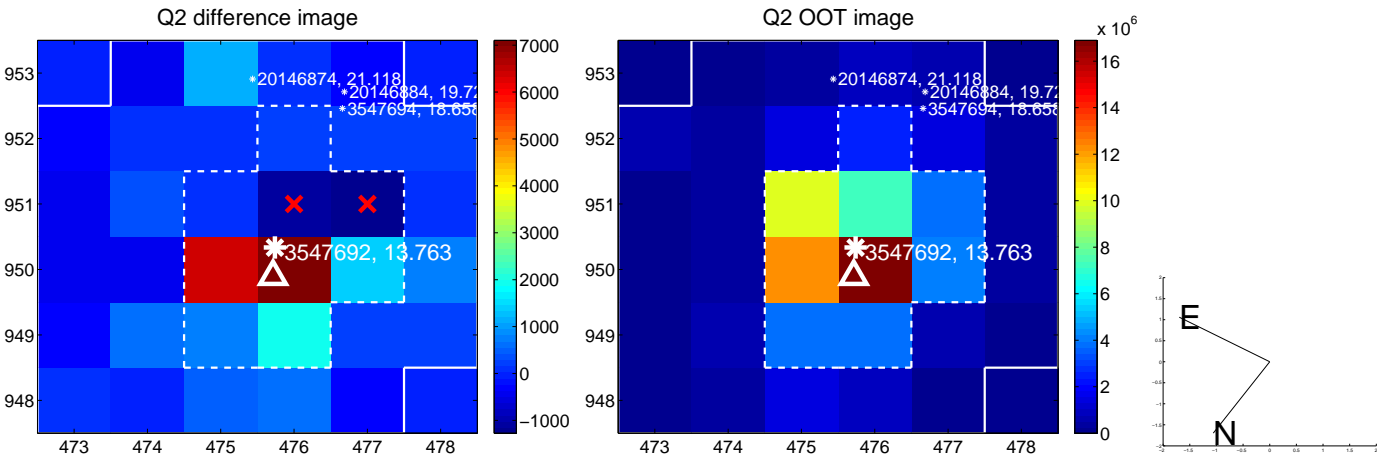
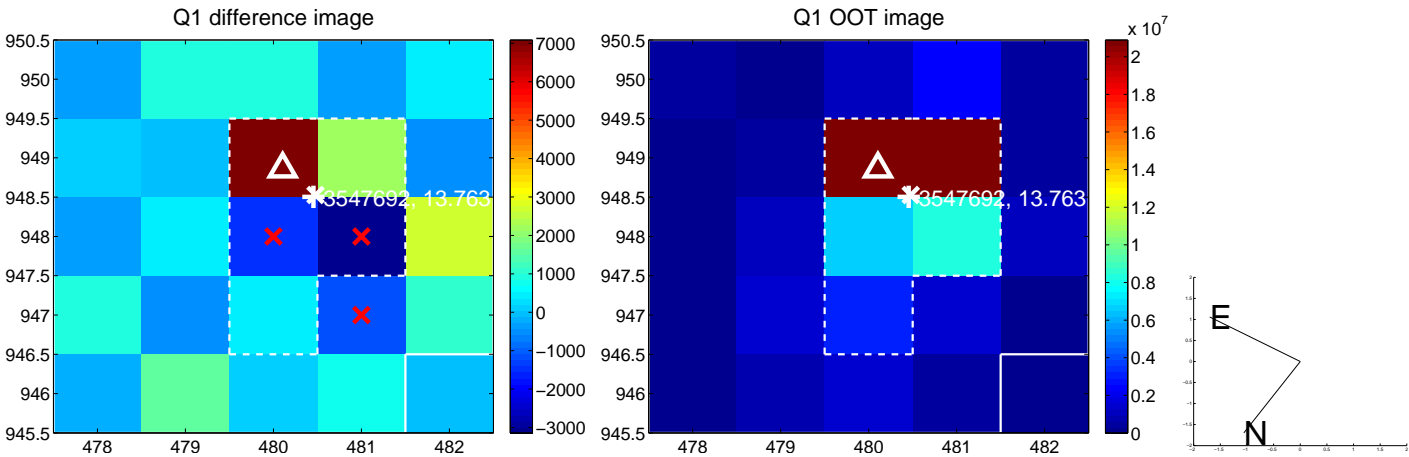
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.492 ± 5.509	0.09	-0.460 ± 5.083	-0.176 ± 7.817
PRF-fit source offset from KIC position	0.447 ± 5.173	0.09	-0.441 ± 5.083	0.072 ± 7.817
photometric centroid source offset	—	—	—	—

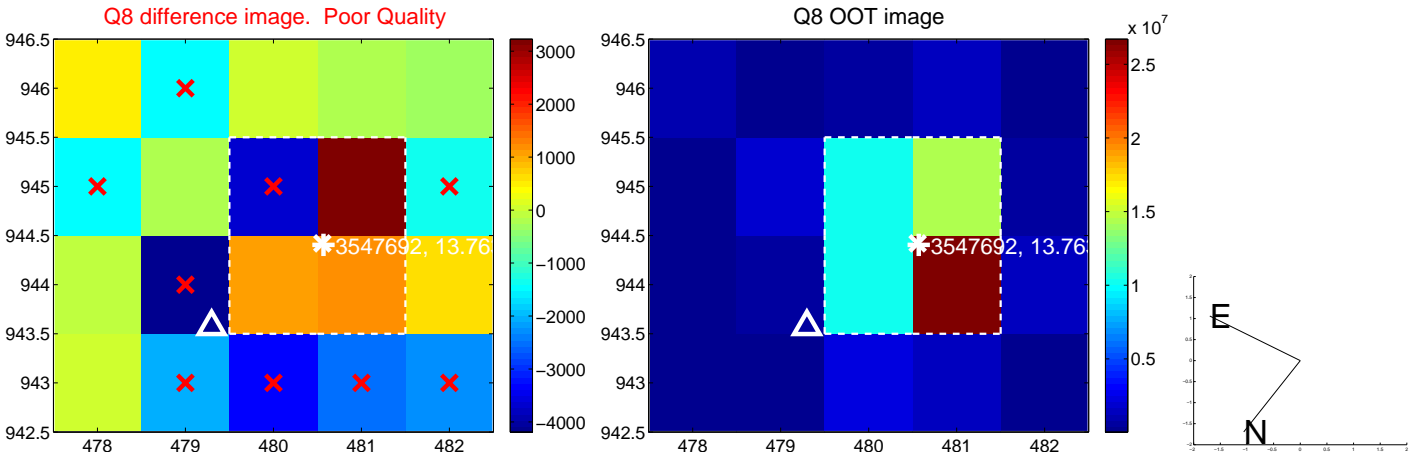
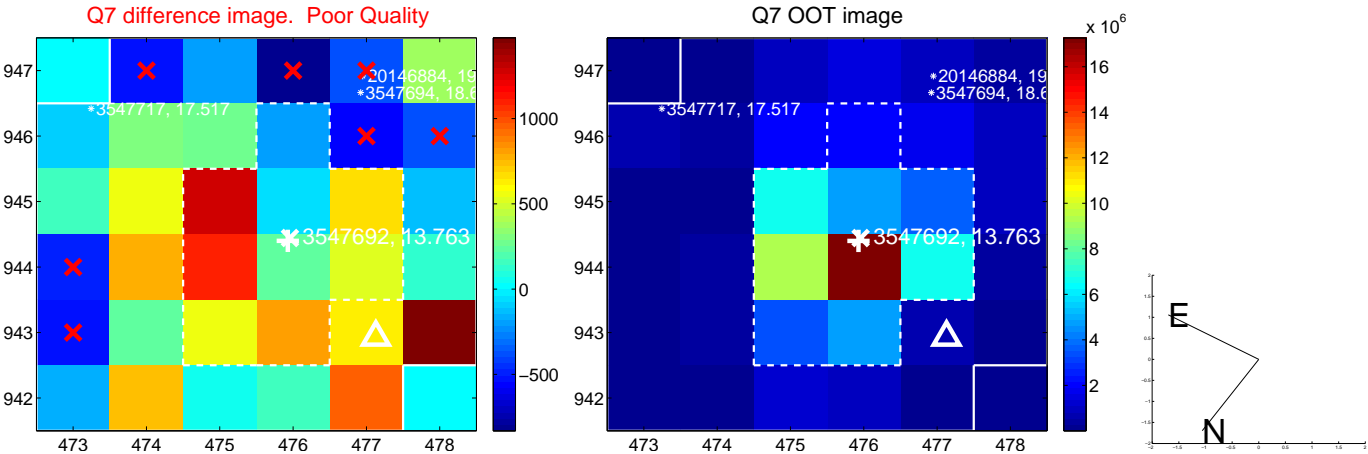
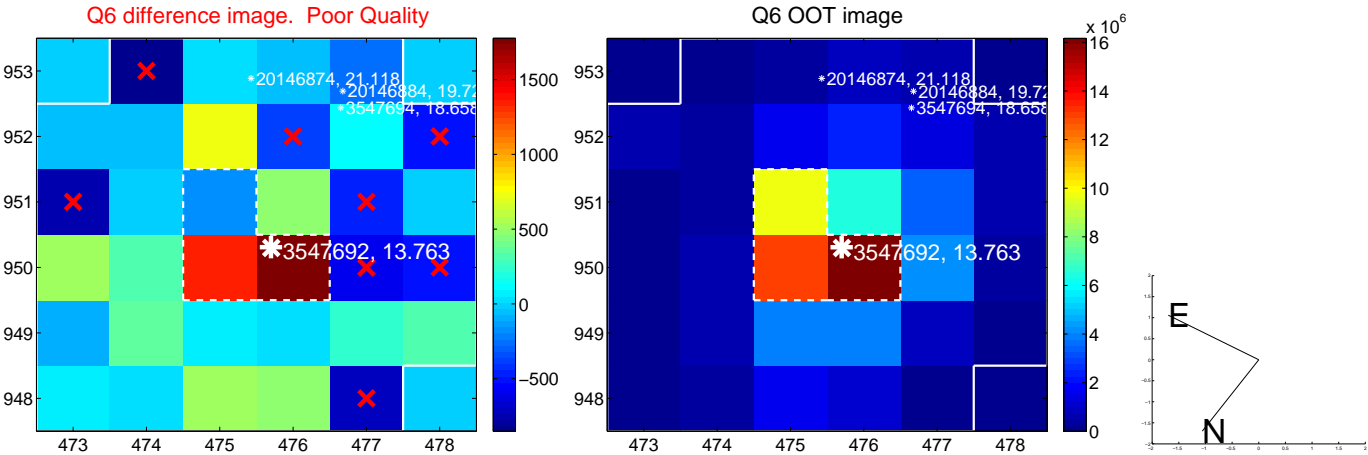
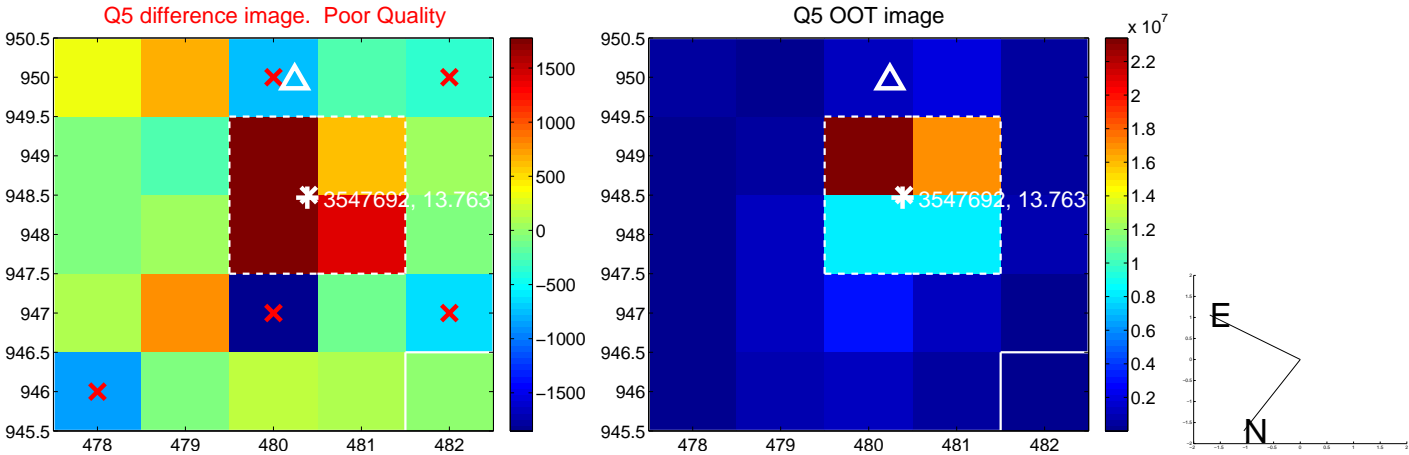


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

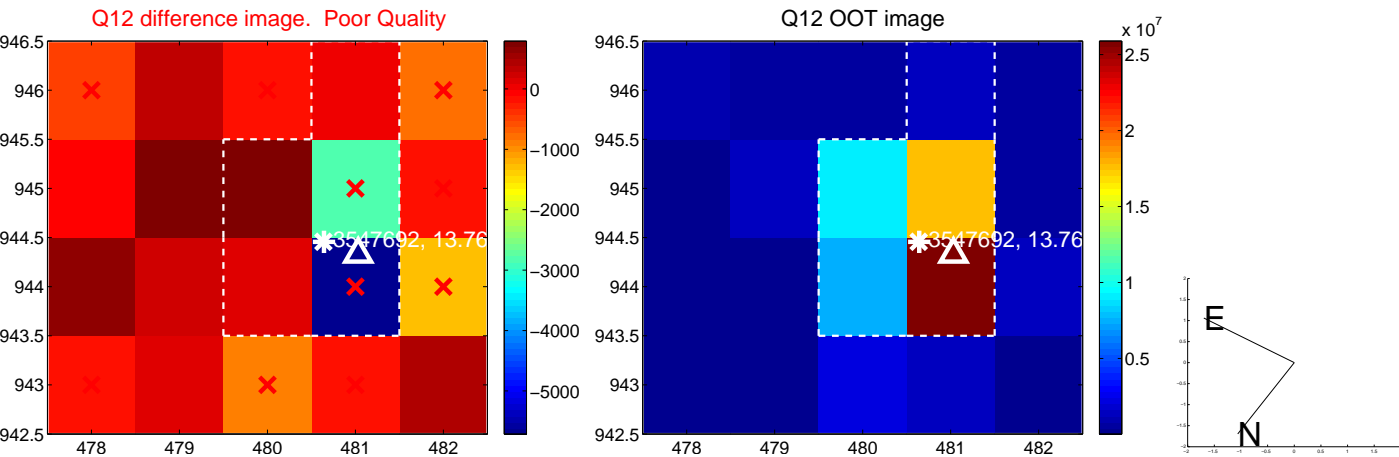
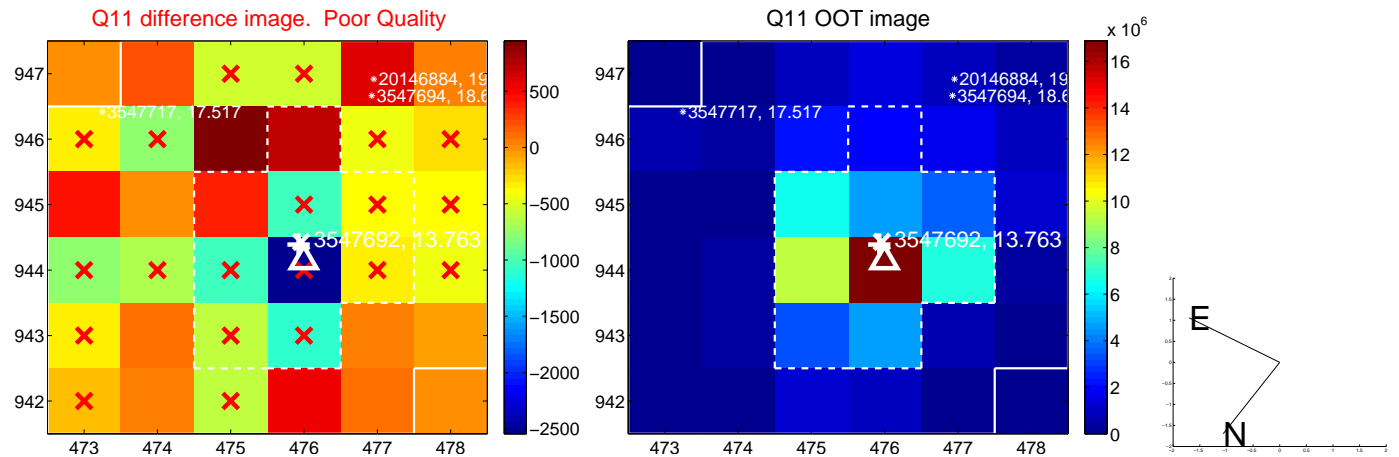
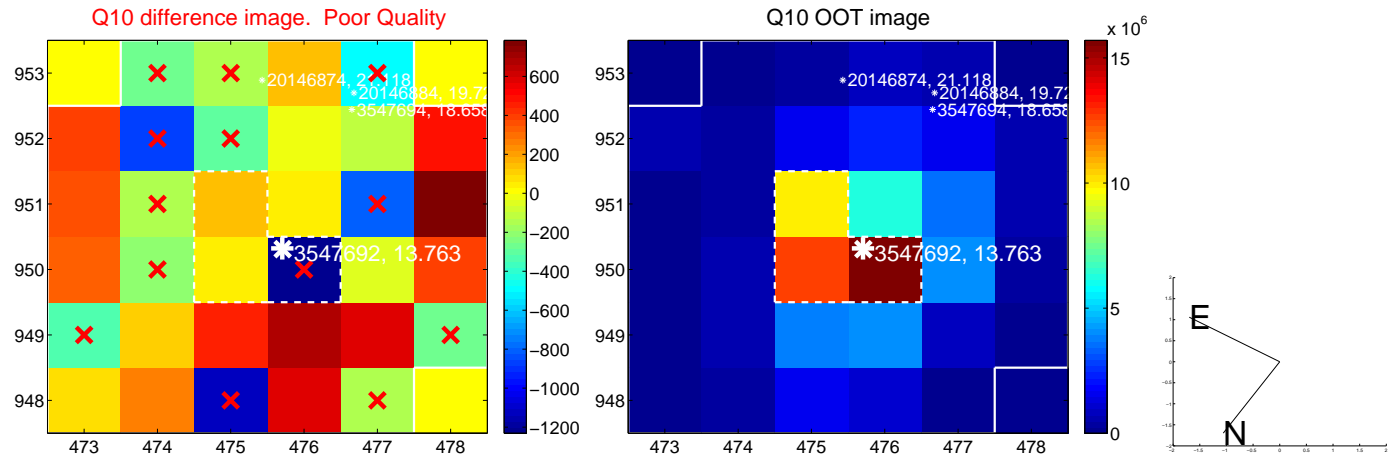
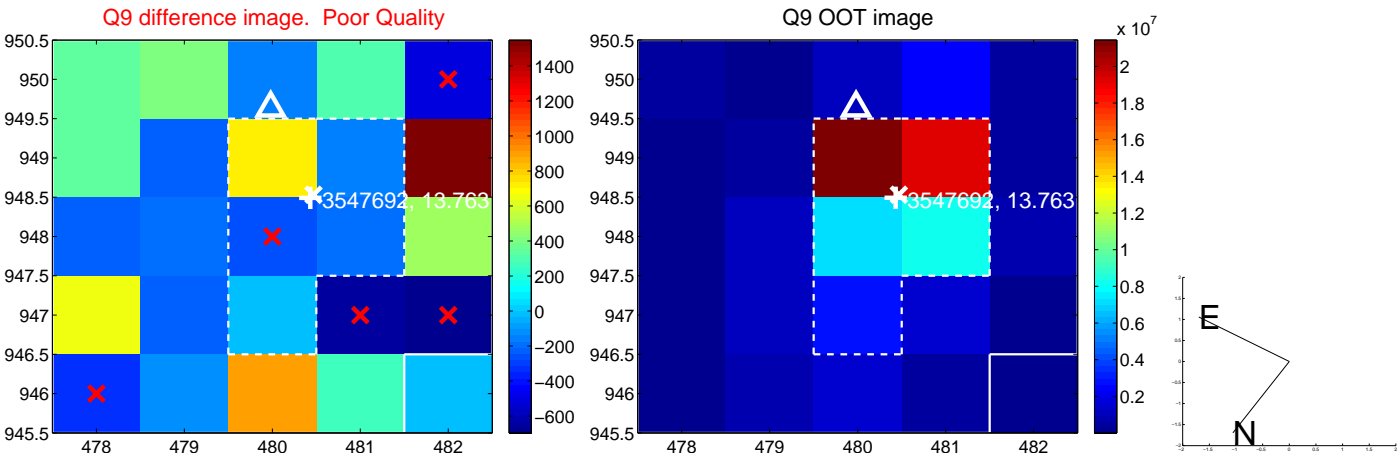
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



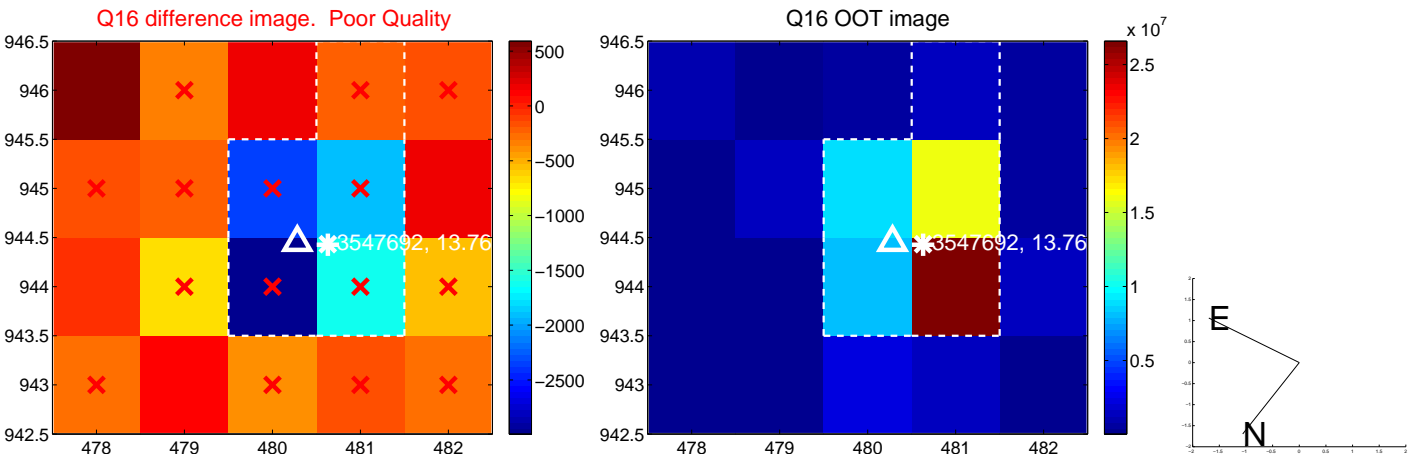
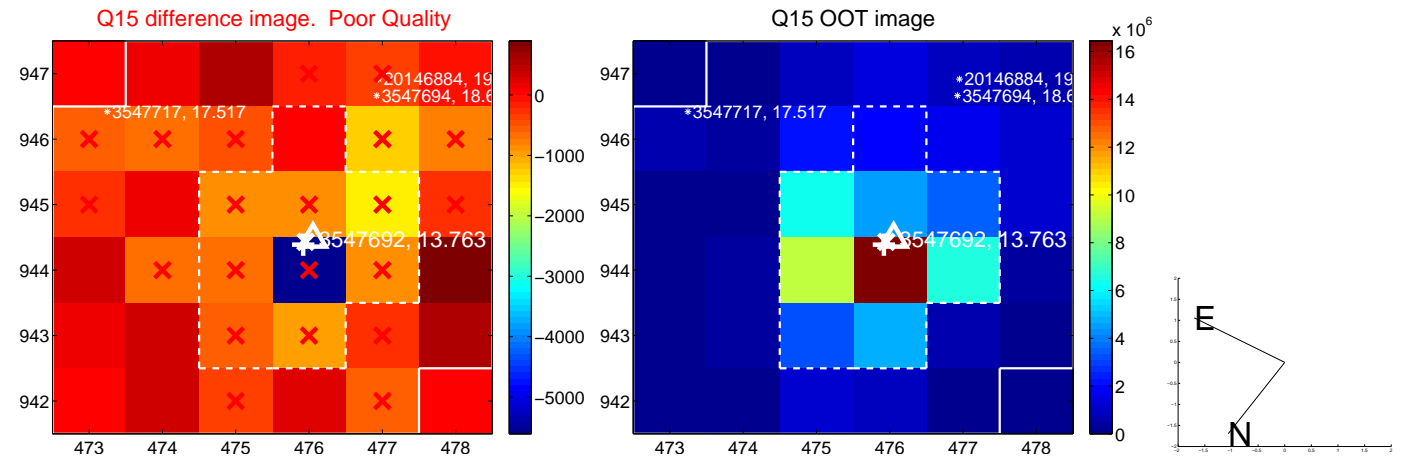
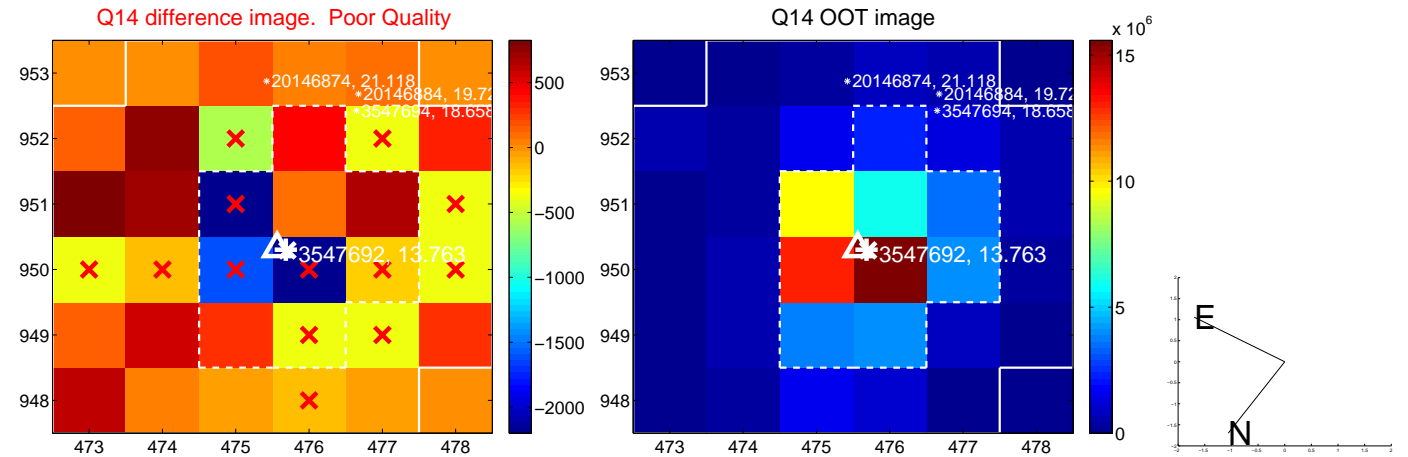
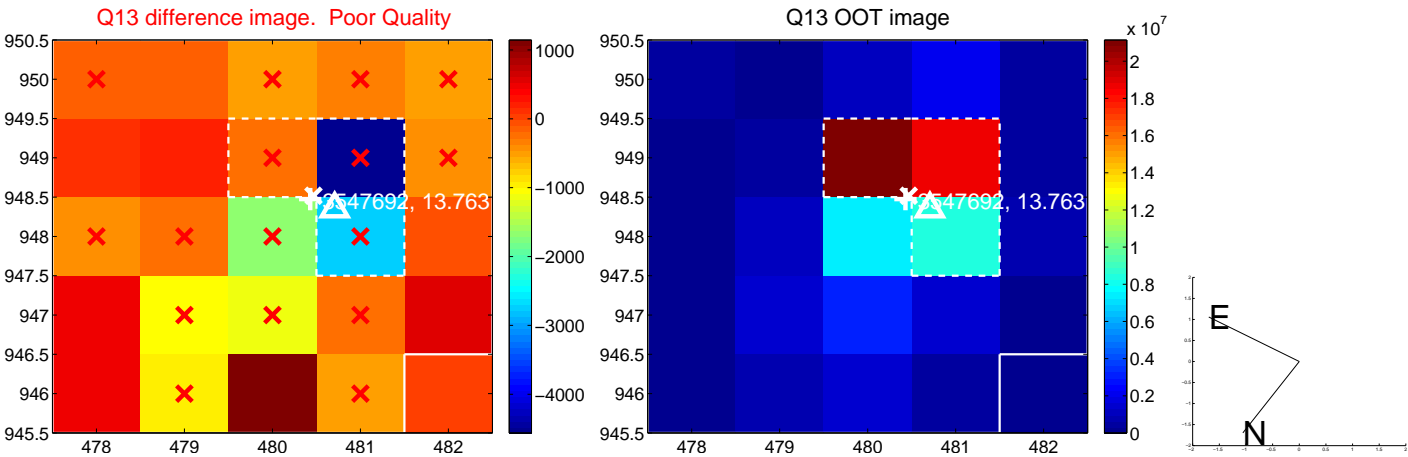
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



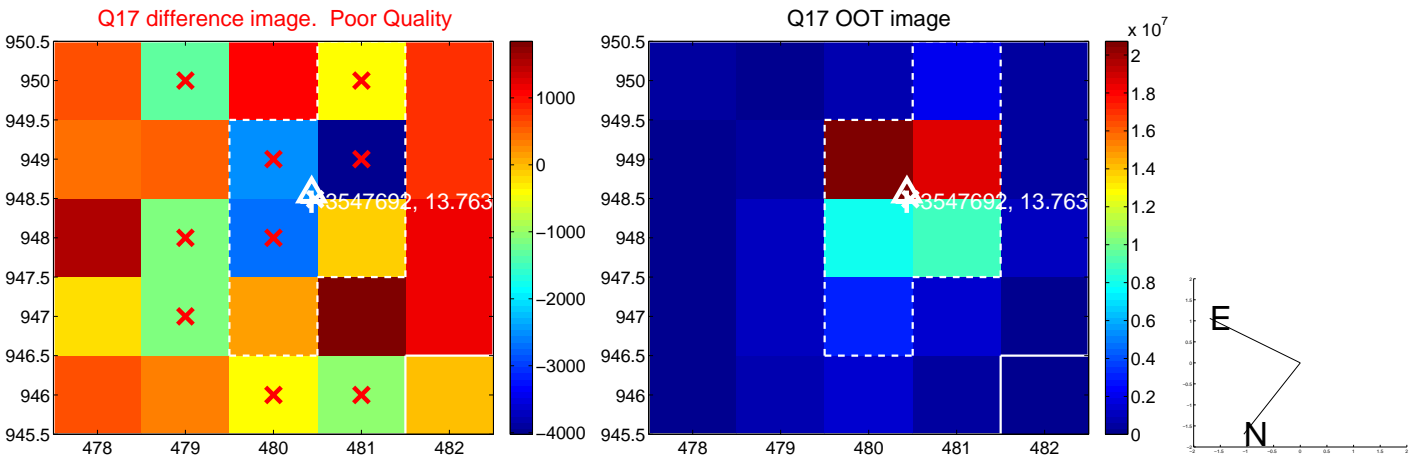
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

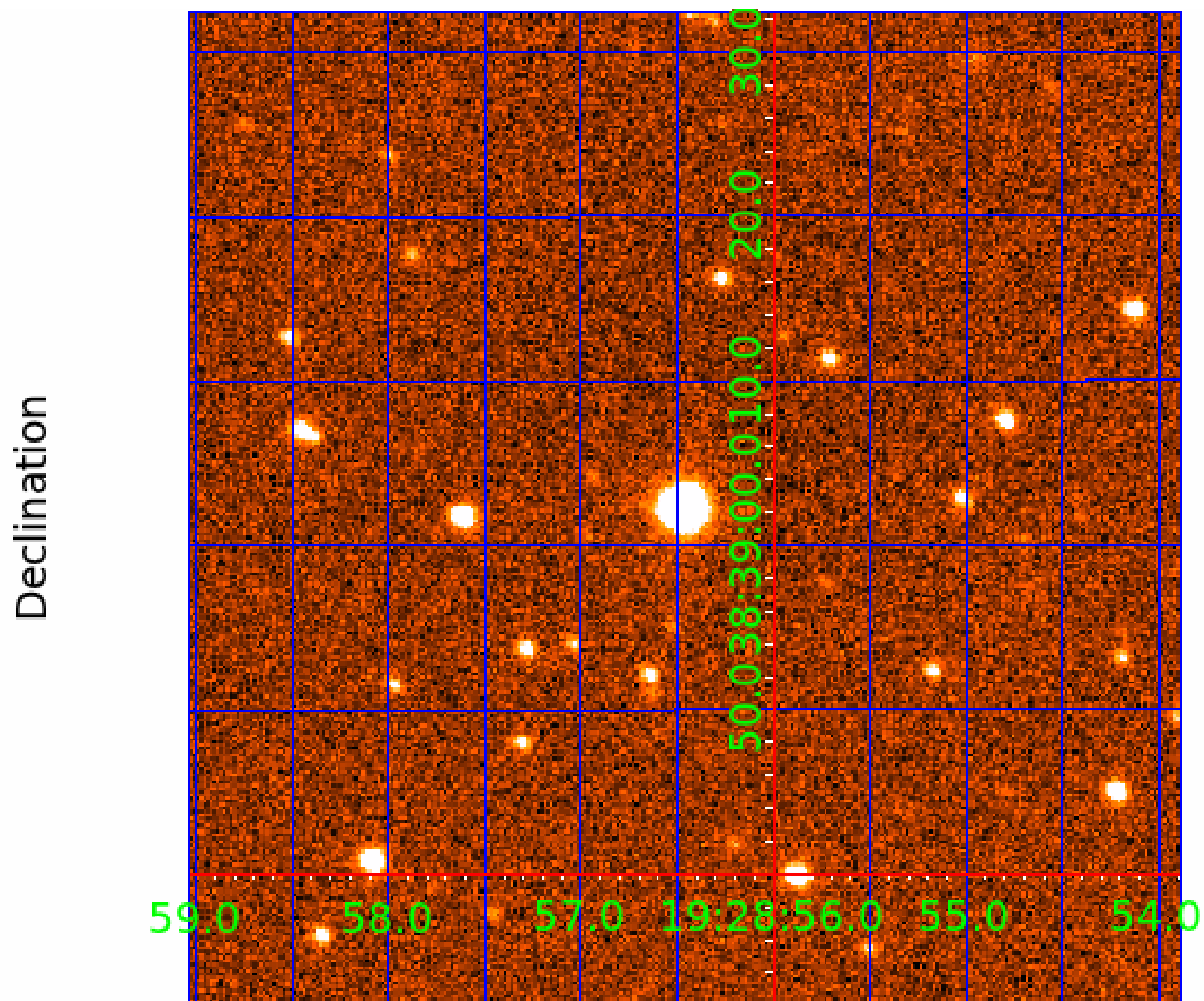


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 003547692

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})
003547692-01	OBS	No	1.153079	131.633595	281.6	3.500	9.6	-1.0	1.15	6484	1.95	4070.74
003547692-02	OBS	No	1.152894	132.391682	0.0	3.094	8.3	0.0	1.15	6484	0.01	4071.61

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
003547692-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
003547692-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—LPP_ALT—SAME_NTL_PERIOD

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

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

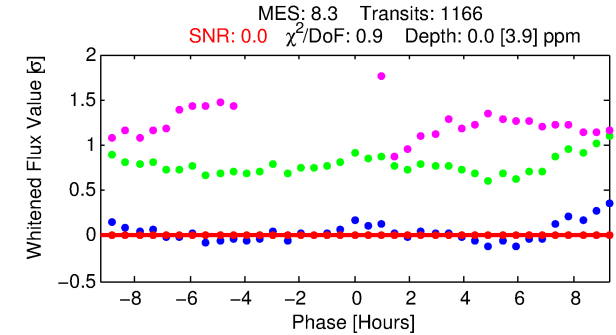
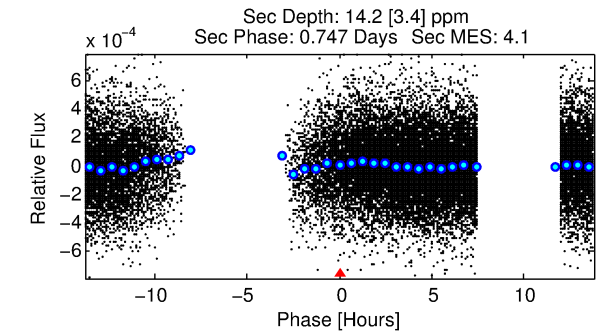
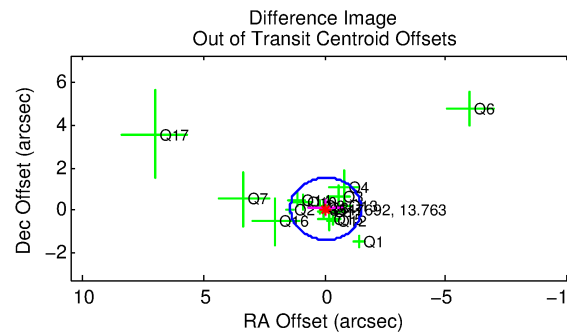
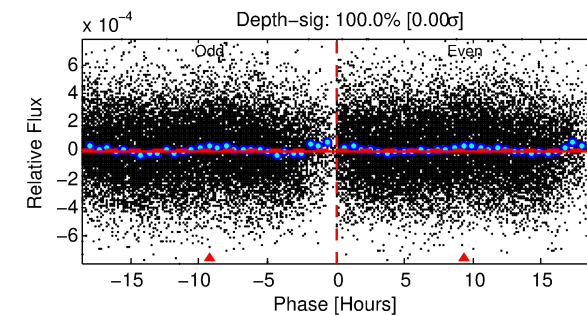
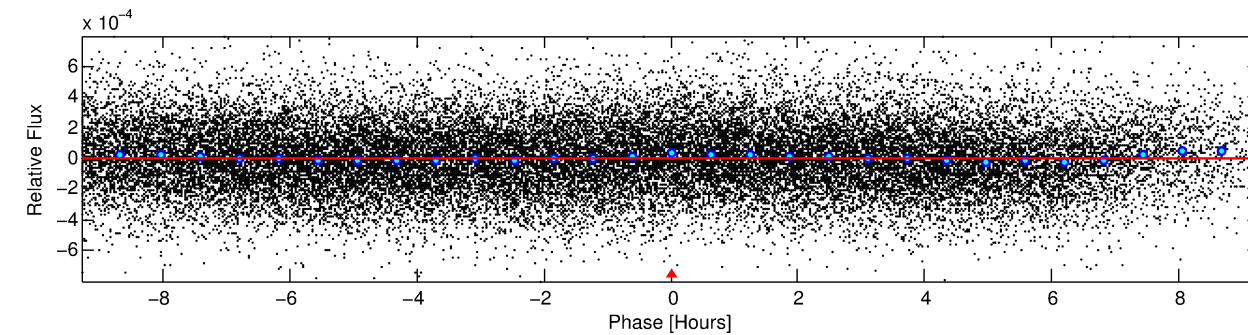
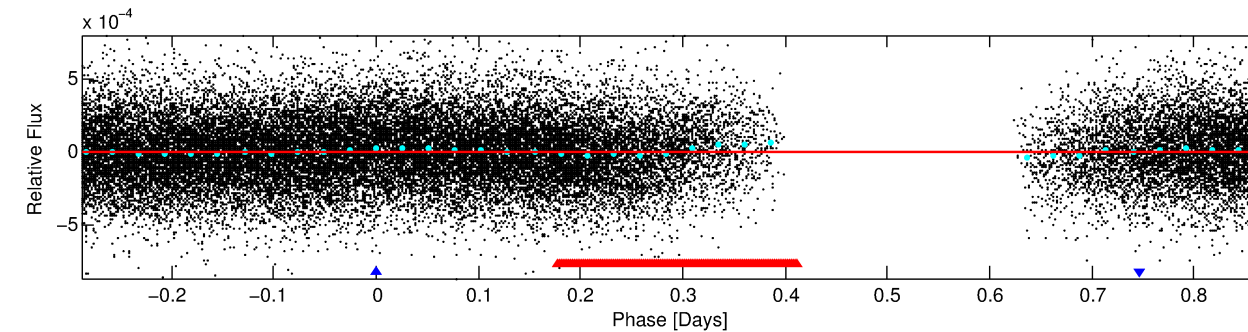
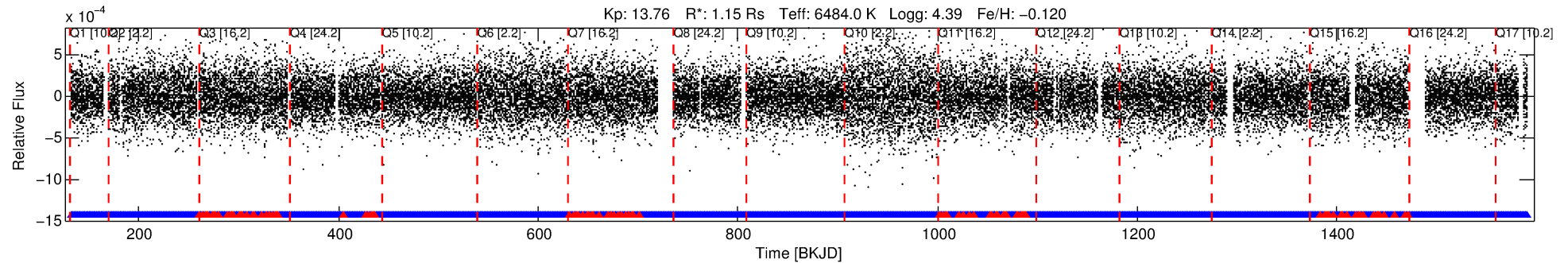
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 003547692-02

No Significant Match Found

DV One-Page Summary

KIC: 3547692 Candidate: 2 of 2 Period: 1.153 d



DV Fit Results:

Period = 1.15289 [0.10987] d
Epoch = 132.3917 [33.5494] BKJD
Rp/R* = 0.0001 [0.0360]
a/R* = 1.54 [120.86]
b = 0.90 [50.92]
Seff = 4071.61 [1594.69]
Teq = 2037 [199] K
Rp = 0.01 [4.52] Re
a = 0.0227 [0.0058] AU
Ag = 64336.82 [73433211.51] [0.00σ]
Teffp = 50156 [14312750] K [0.00σ]

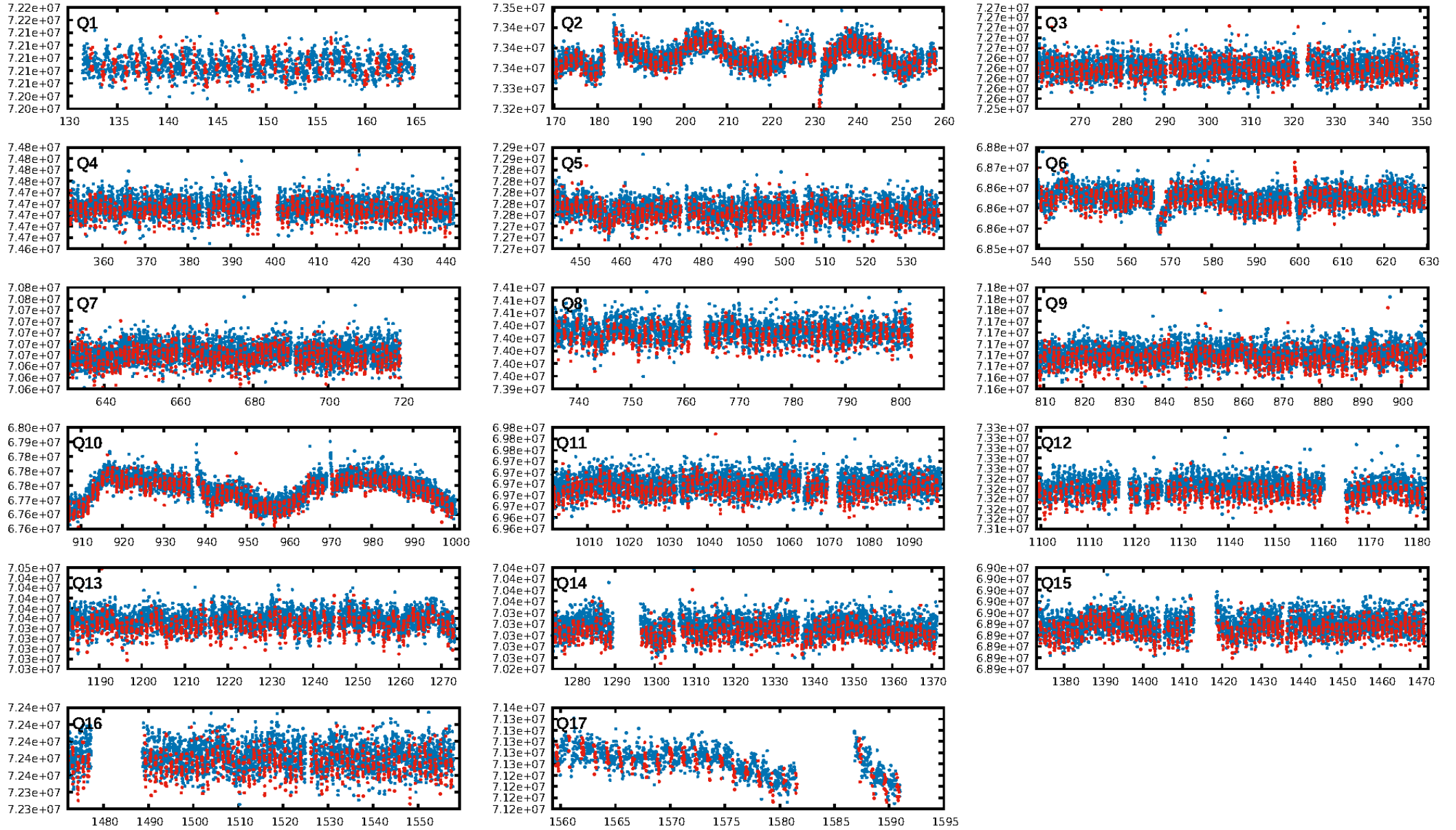
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.1% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.11e-14
RollingBand-fgt: 0.91 [1011/1113]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.090 arcsec [0.19σ]
KicOffset-rm: 0.123 arcsec [0.28σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.50 [8/16]
DiffImageOverlap-fno: 0.29 [5/17]

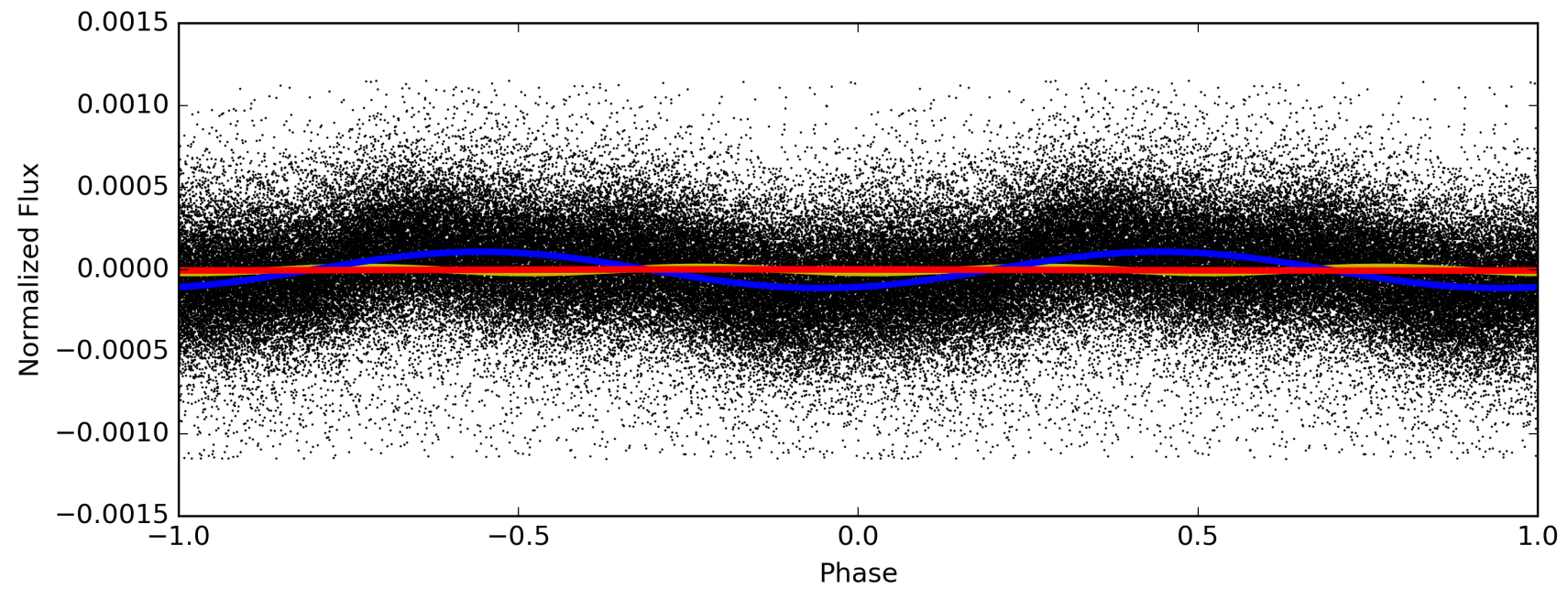
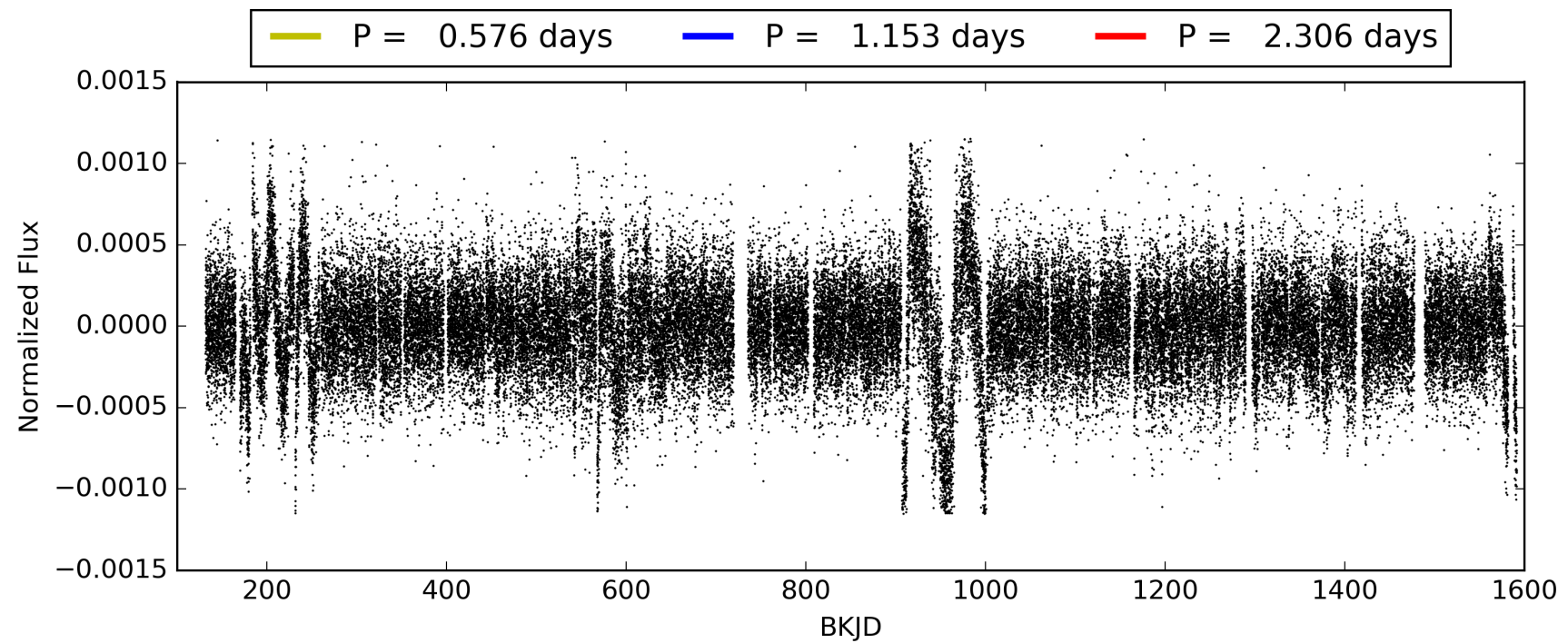
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 02:35:57 Z

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

TCE 003547692-02, PDC Light Curves

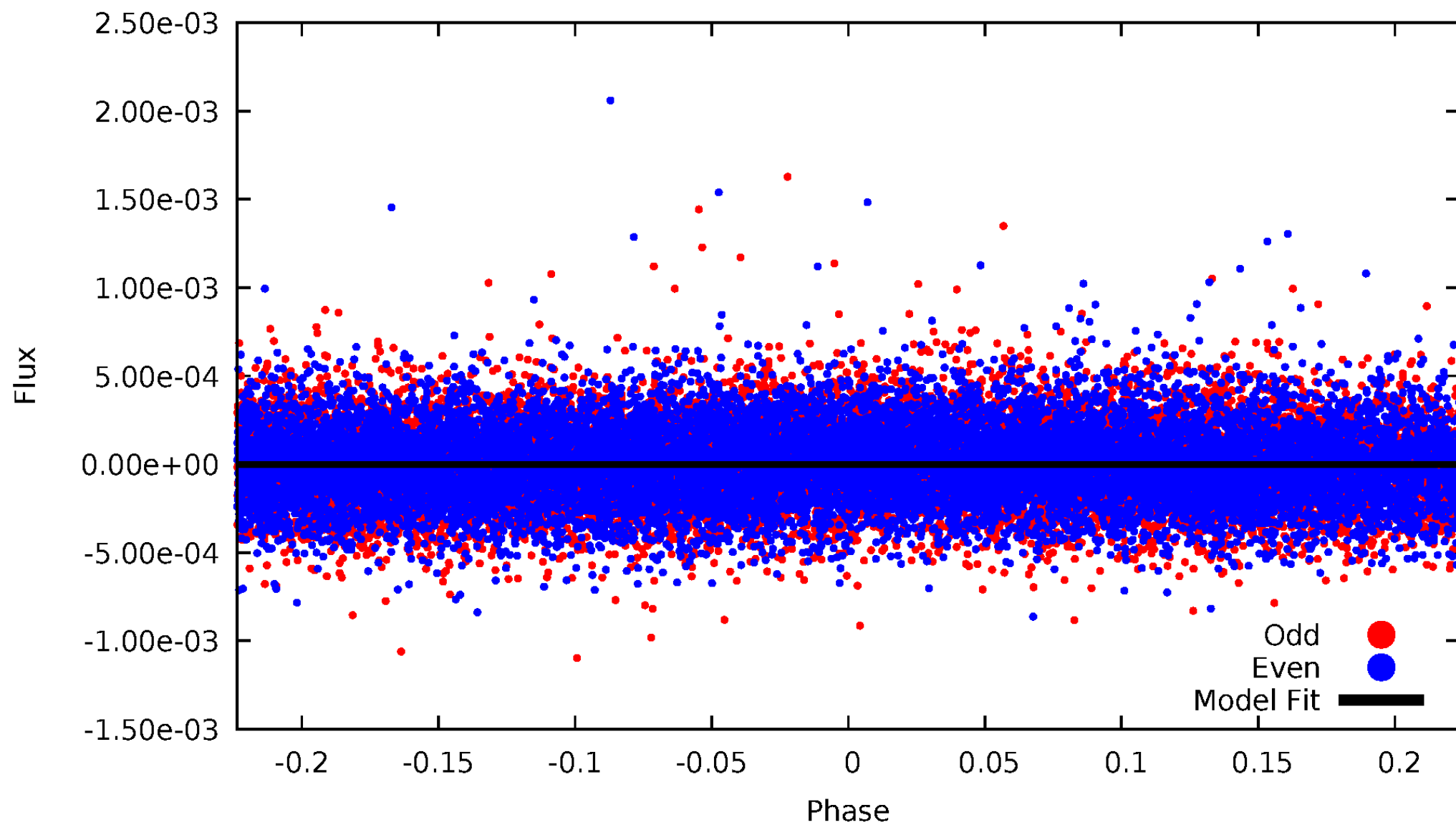


TCE 003547692-02



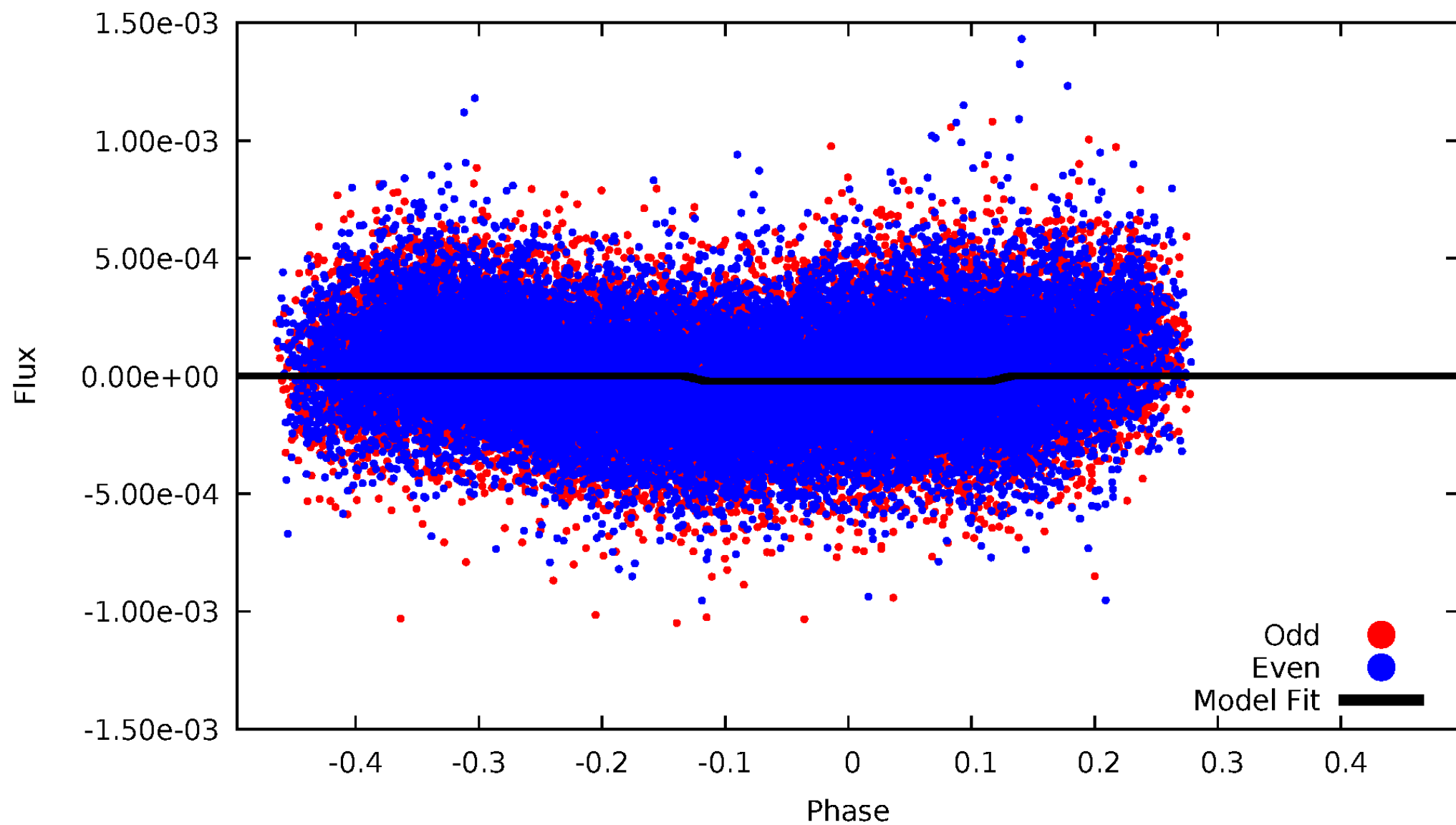
DV Odd/Even

TCE 003547692-02



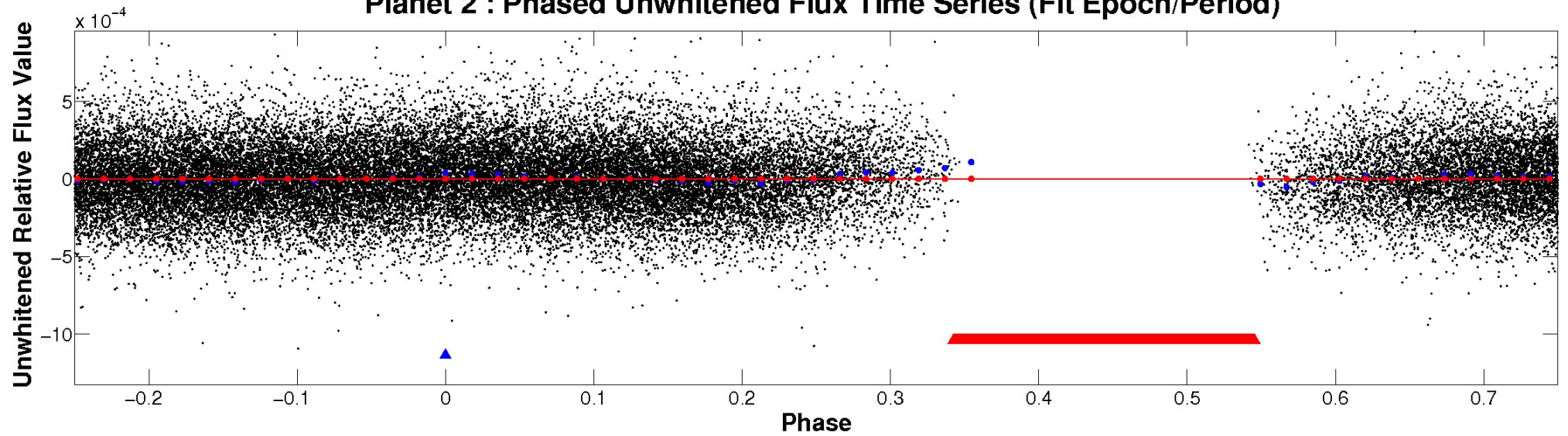
ALT Odd/Even

TCE 003547692-02

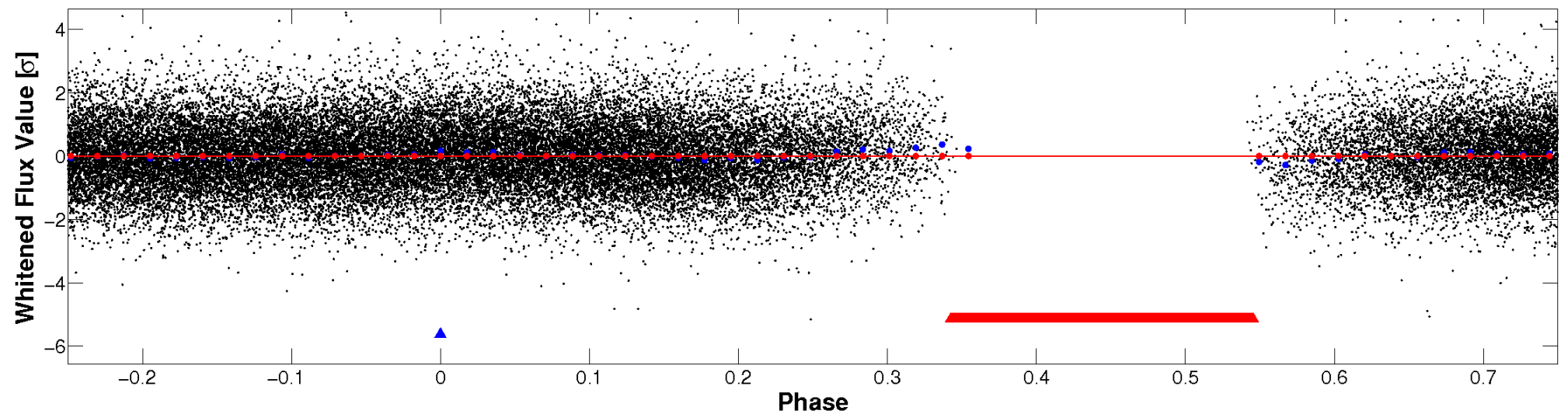


Non-Whitened Vs. Whitened Light Curve

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

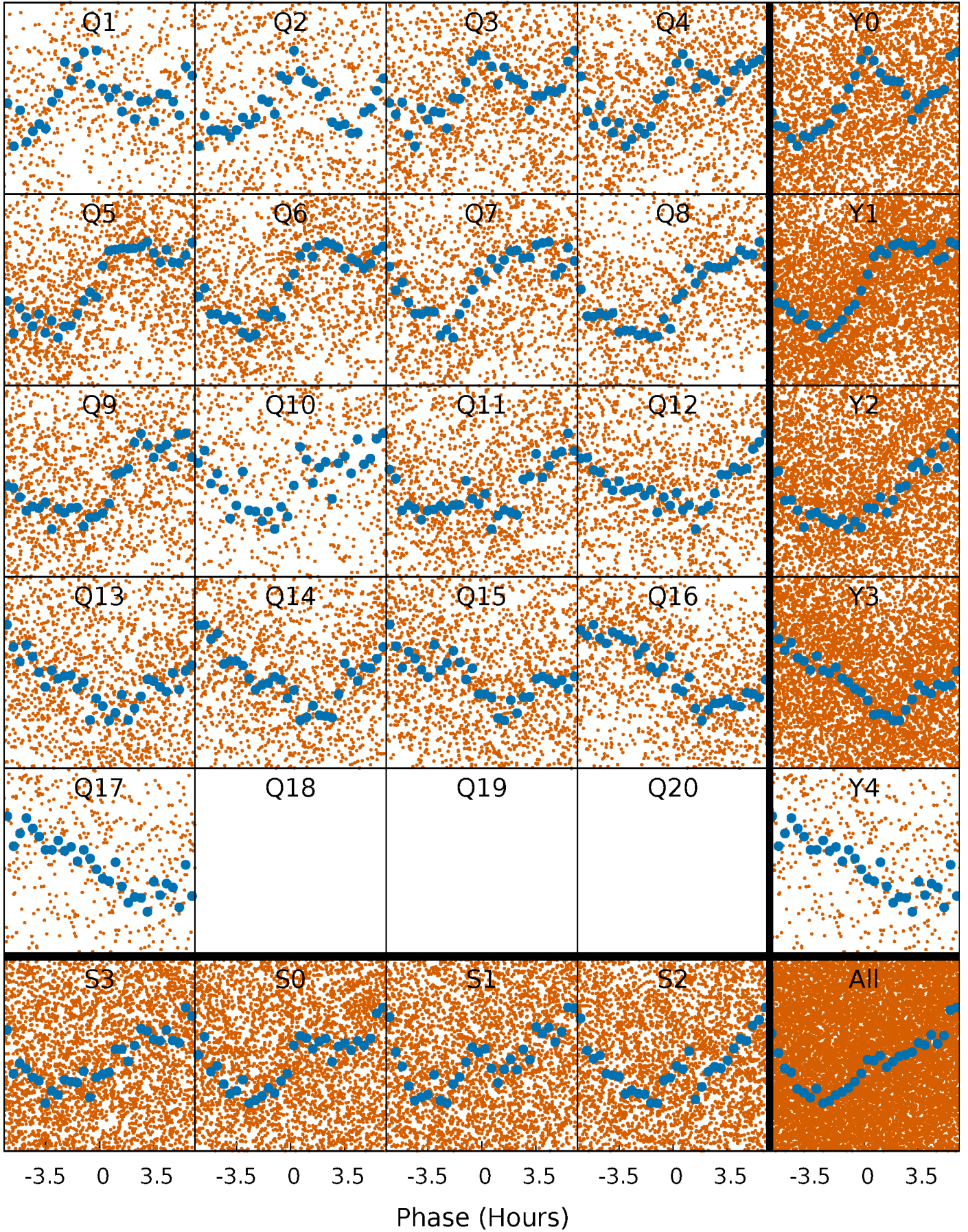


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



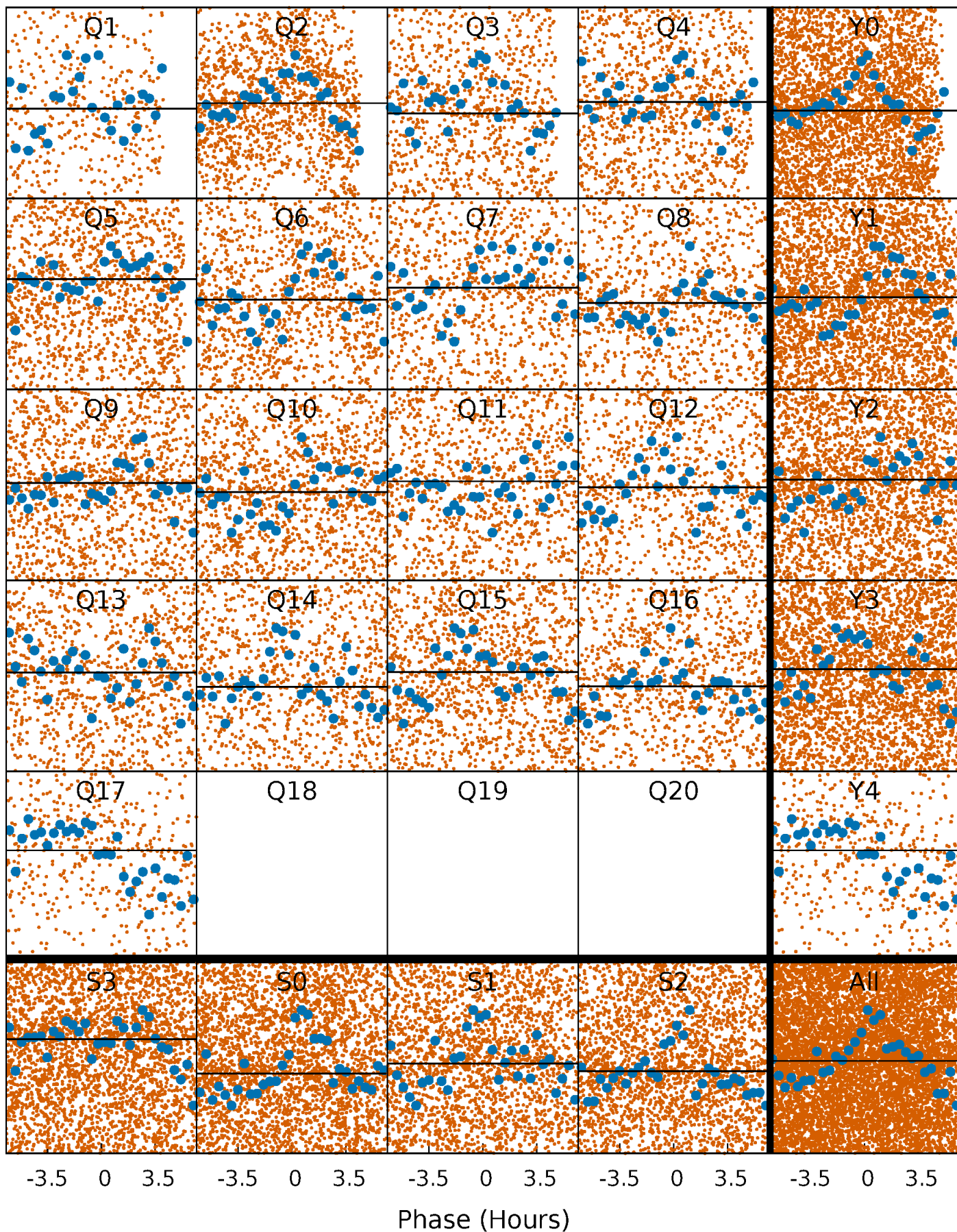
PDC Quarter-Phased Transit Curves

TCE 003547692-02 P= 1.152894 Days $T_0=132.391682$ (BKJD)



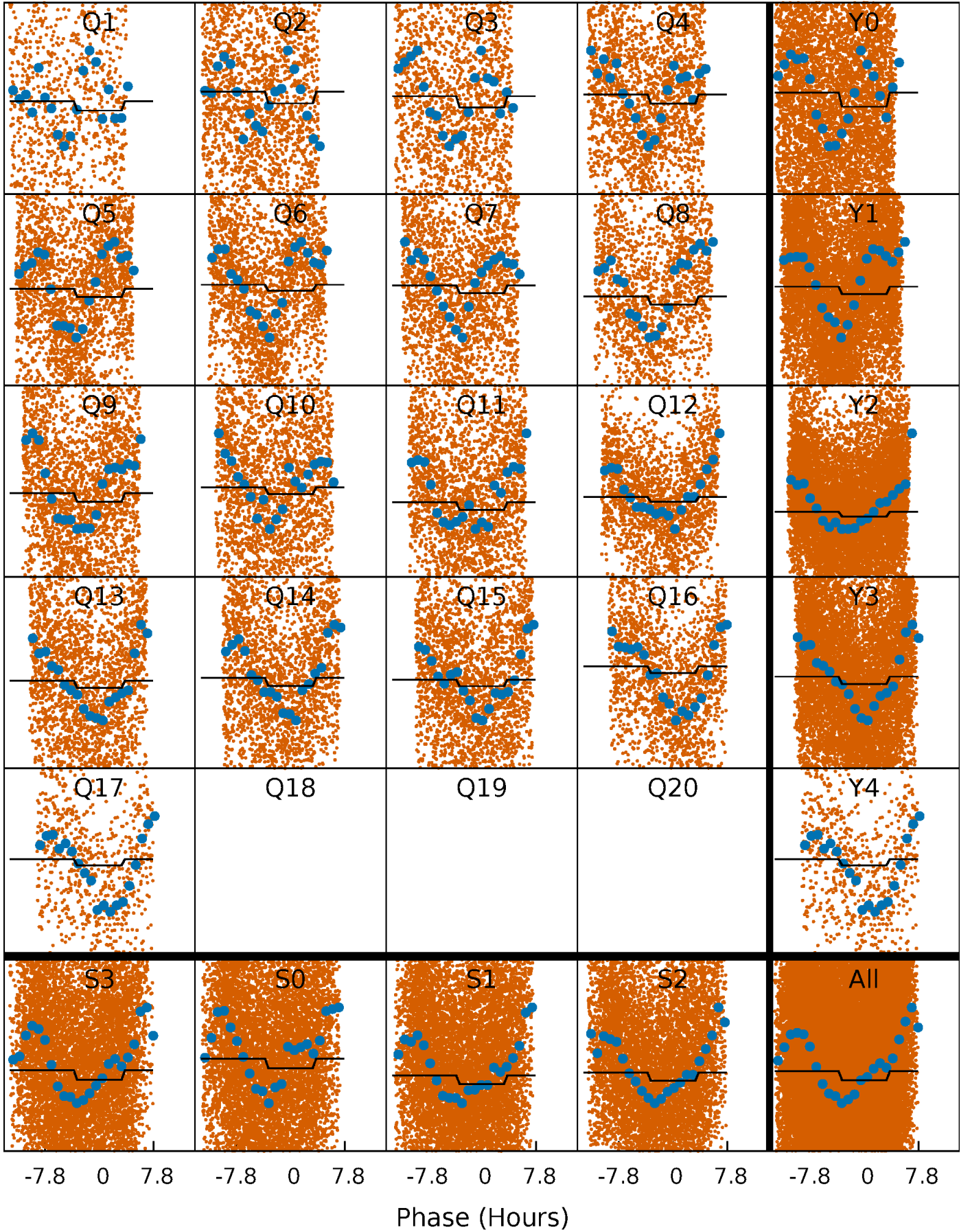
DV Quarter-Phased Transit Curves

TCE 003547692-02 P= 1.152894 Days $T_0=132.391682$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

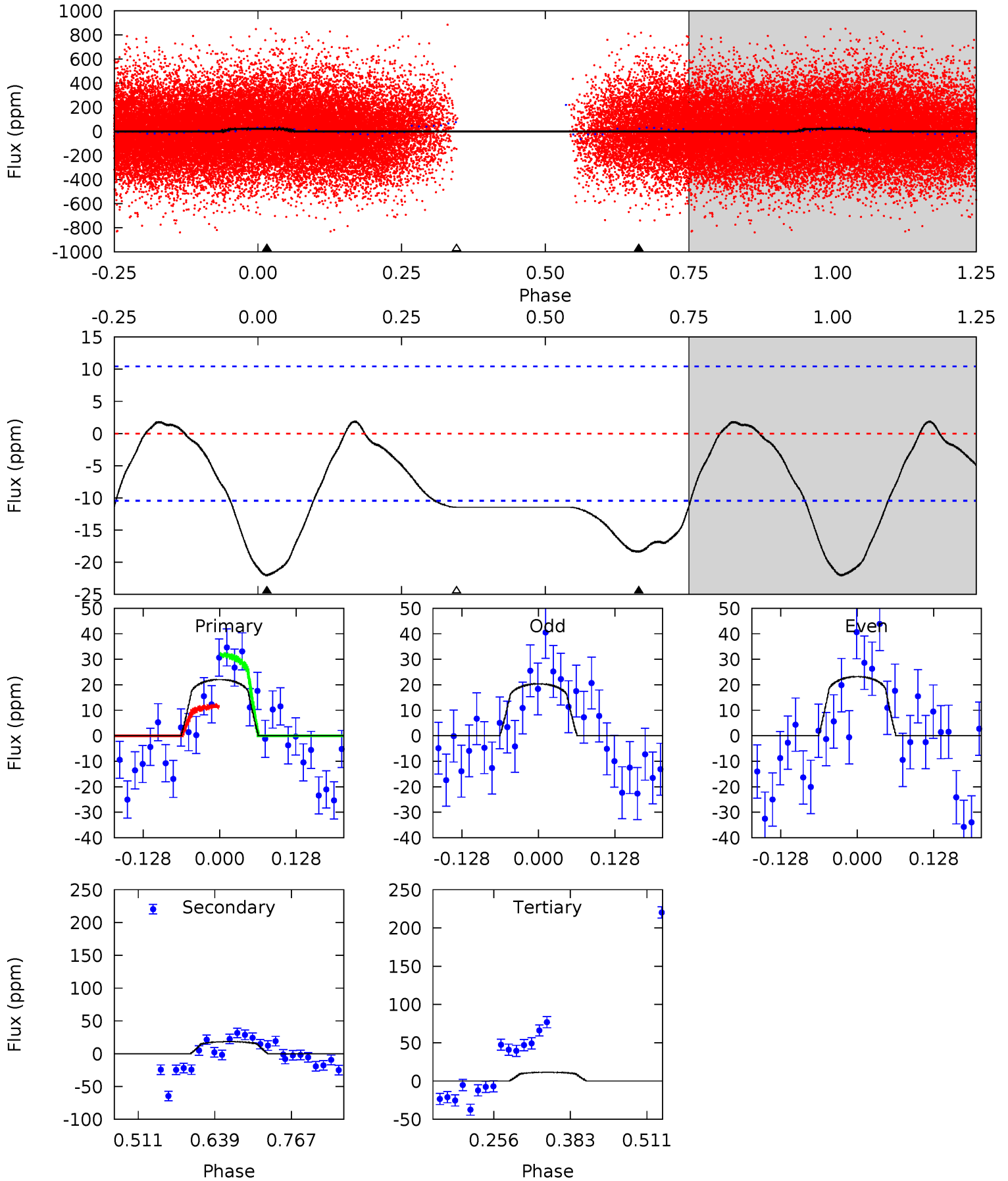
TCE 003547692-02 P= 1.152951 Days $T_0=132.398444$ (BKJD)



DV Model-Shift Uniqueness Test

003547692-02, P = 1.152894 Days, E = 131.238788 Days

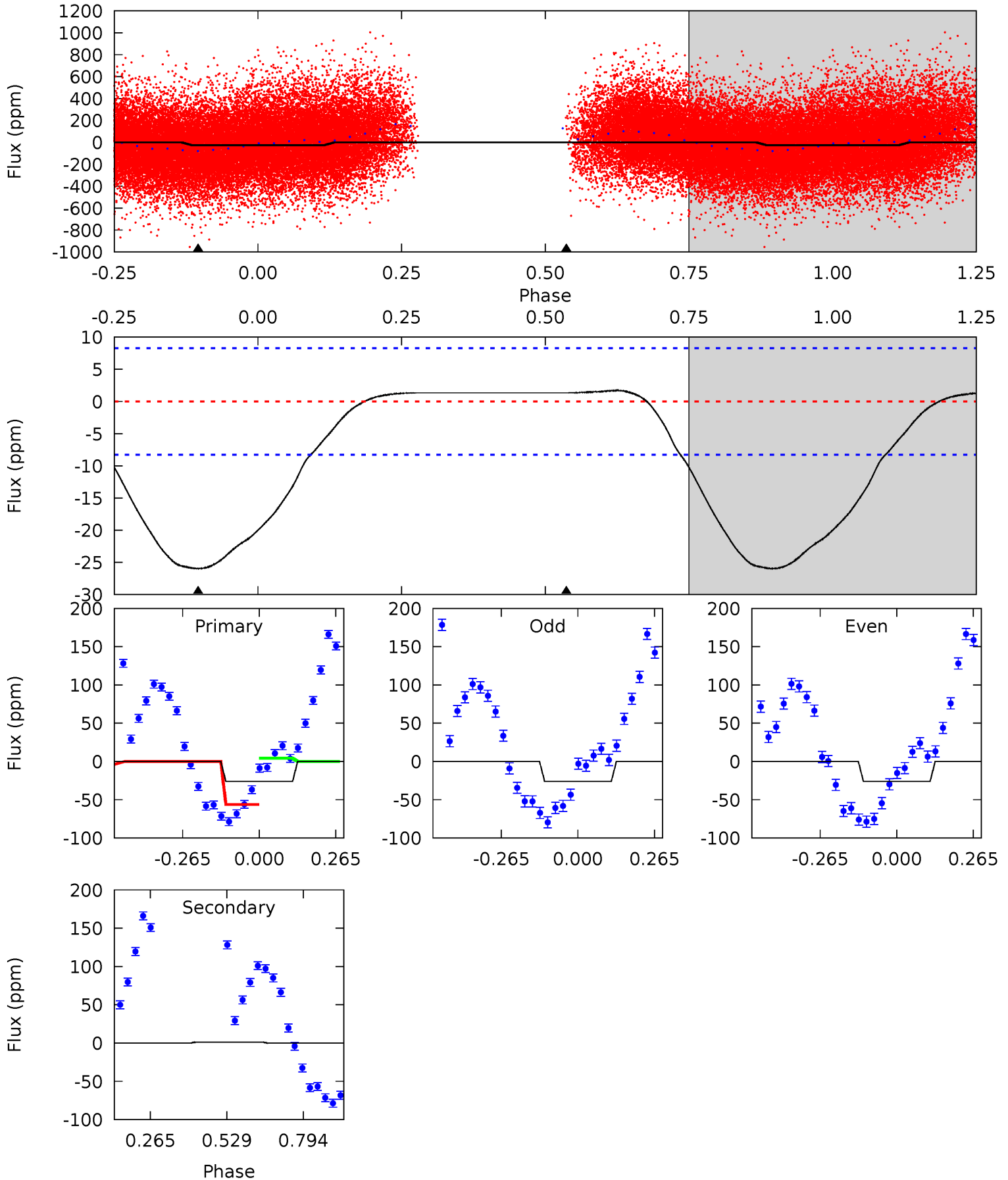
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.53	7.93	4.95	0	4.51	1.52	1.31	4.58	9.53	2.98	7.93	0.61	1.24	0.08	4.37



Alt Model-Shift Uniqueness Test

003547692-02, P = 1.152951 Days, E = 131.245493 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.7	-0.71	0	0	4.36	1.12	0.60	13.7	13.7	-0.71	-0.71	0.03	1.11	0.06	14.4



Stellar Parameters For KIC 003547692

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6484^{+154}_{-193}	$4.386^{+0.062}_{-0.188}$	$-0.120^{+0.250}_{-0.300}$	$1.153^{+0.345}_{-0.138}$	$1.178^{+0.164}_{-0.148}$	$1.084^{+0.287}_{-0.548}$
	+2%/-3%	+1%/-4%	+208%/-250%	+30%/-12%	+14%/-13%	+27%/-51%
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 003547692-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-18 ± 2	$3.22^{+3.55}_{-2.19}$	2896^{+195}_{-160}	2847^{+1988}_{-5703}	$0.484^{+4.414}_{-0.372}$
Alt.	1 ± 2	$3.28^{+3.60}_{-2.42}$	2915^{+230}_{-165}	-3116^{+174}_{-372}	$-0.018^{+0.032}_{-0.318}$

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 $A_{obs} \gg 1.0$

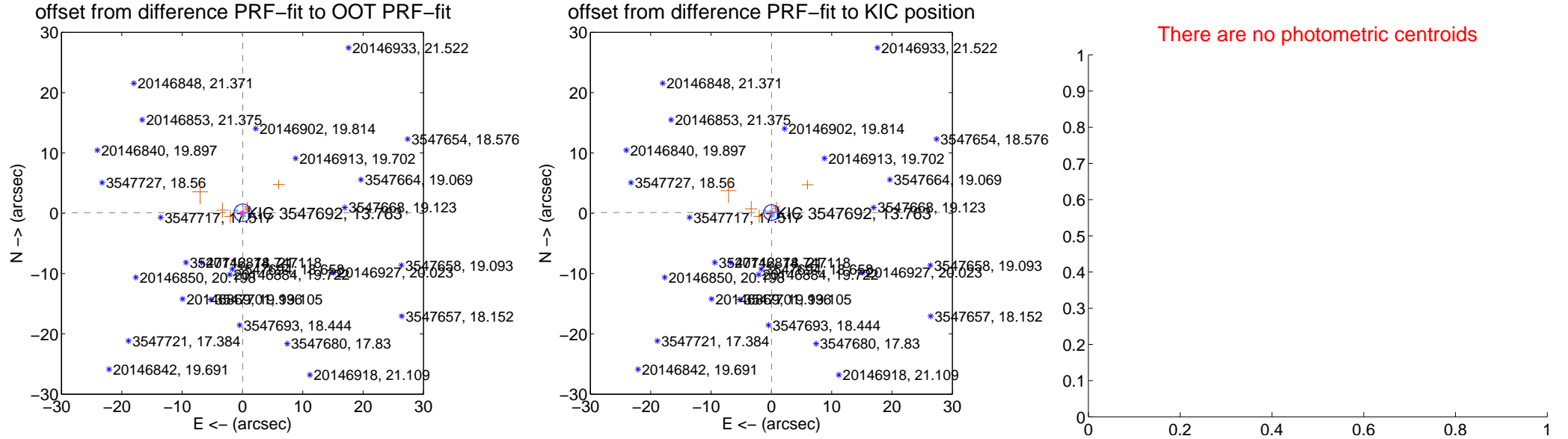
DV Centroid Data

Supplemental centroid analysis for 003547692-02. Kepler magnitude: 13.76. Transit SNR 0.00

There are 8 quarters with good PRF difference image offsets

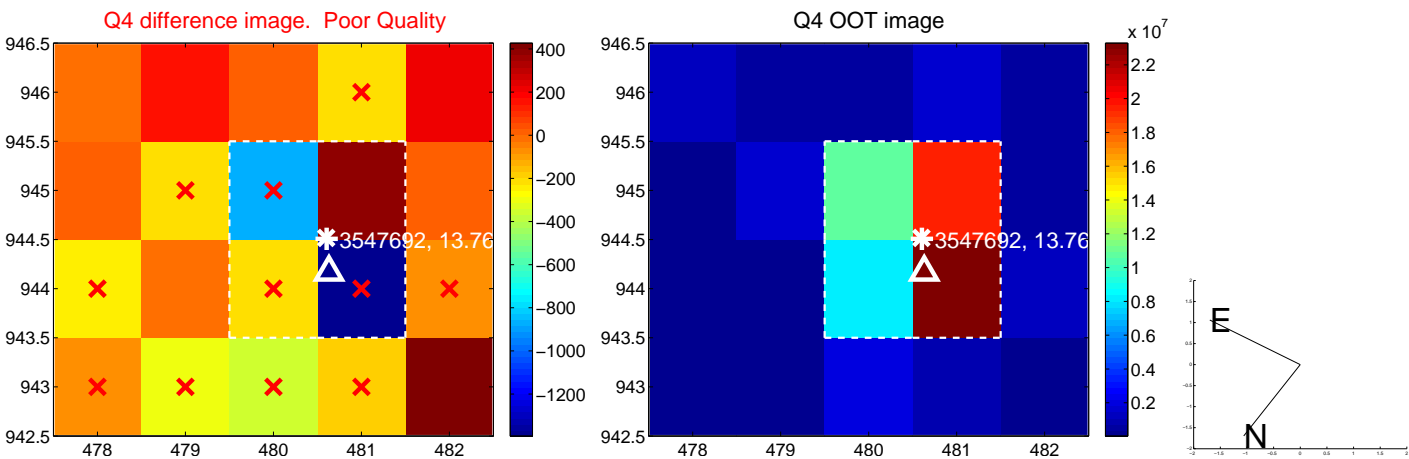
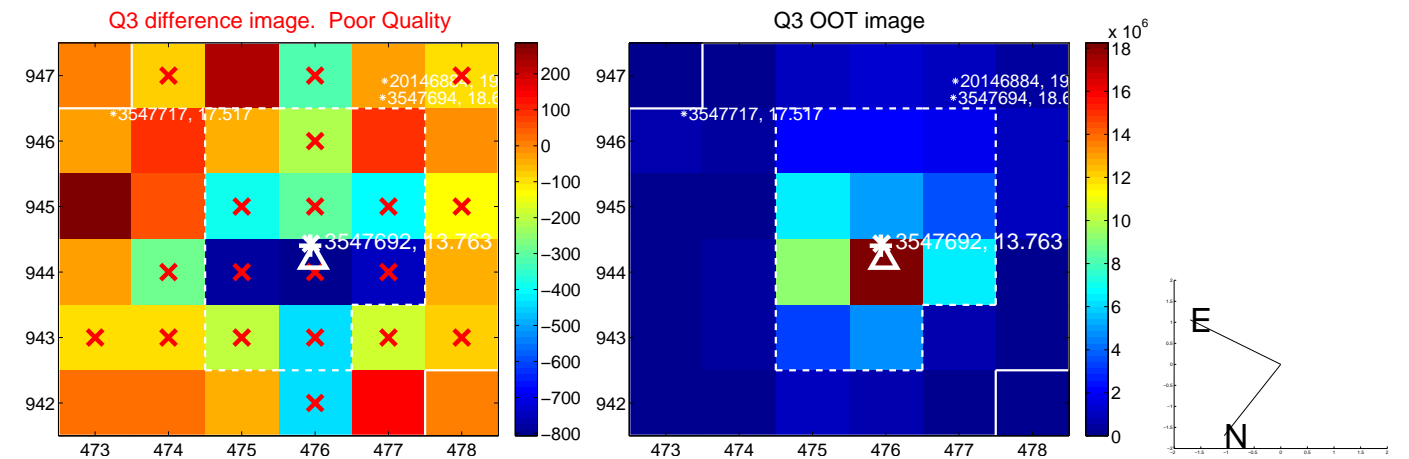
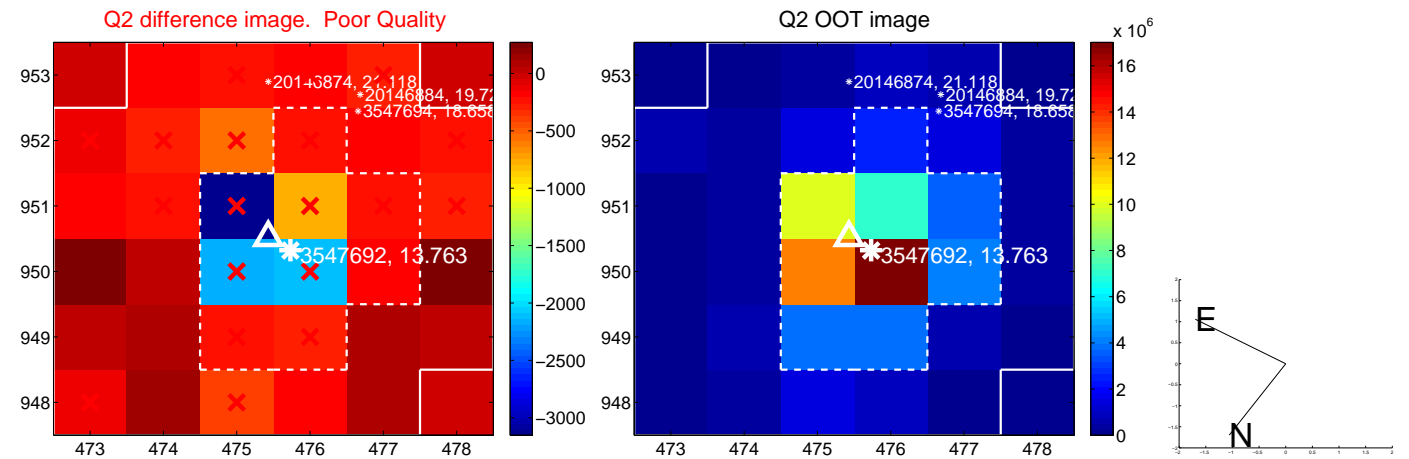
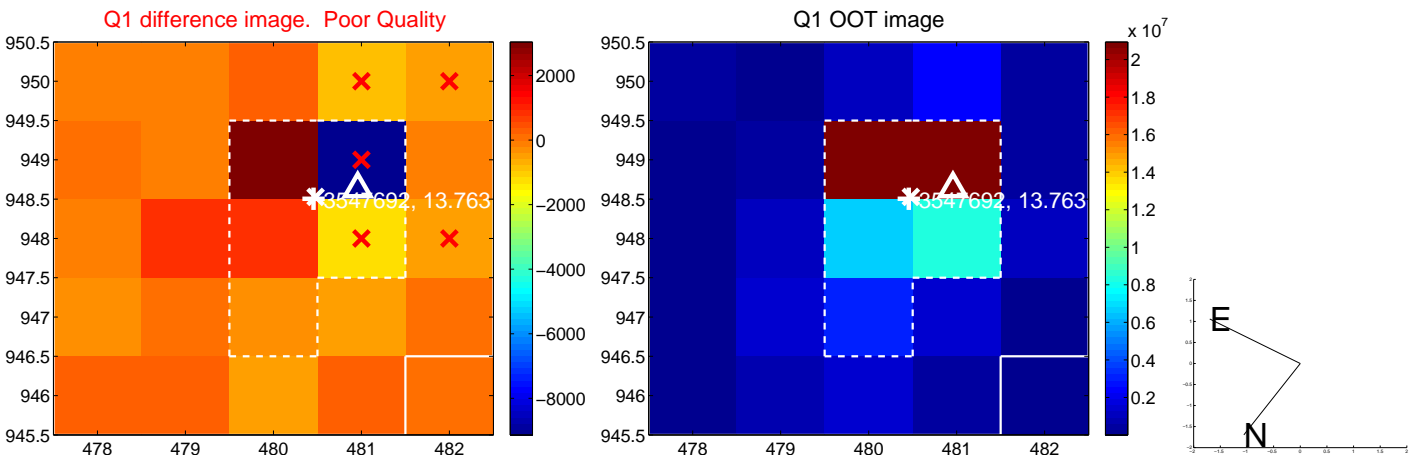
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.090 ± 0.485	0.19	-0.044 ± 0.668	0.079 ± 0.348
PRF-fit source offset from KIC position	0.123 ± 0.433	0.28	-0.031 ± 0.669	0.120 ± 0.392
photometric centroid source offset	—	—	—	—

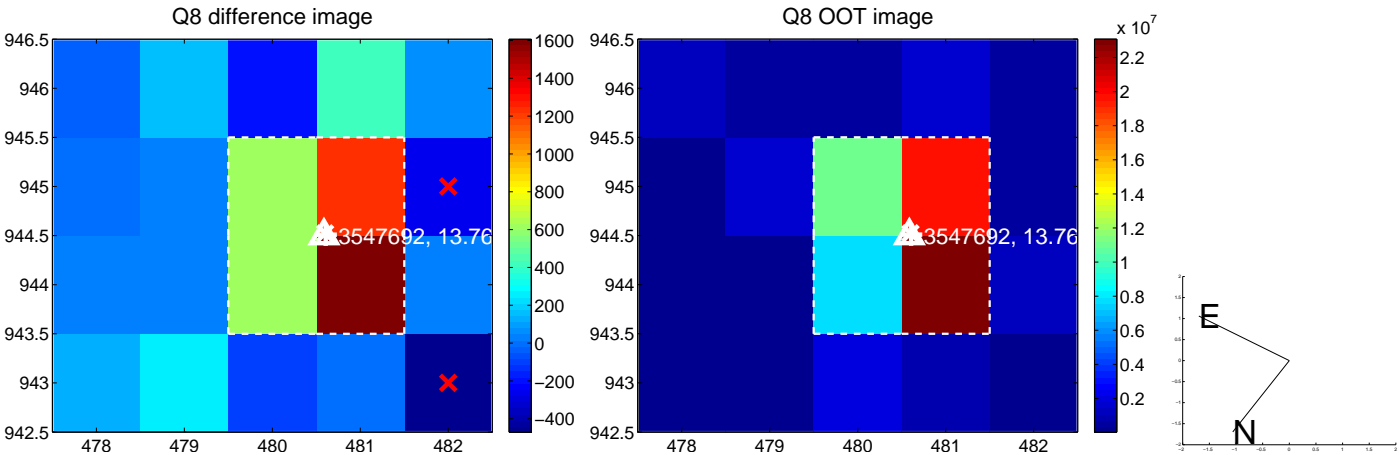
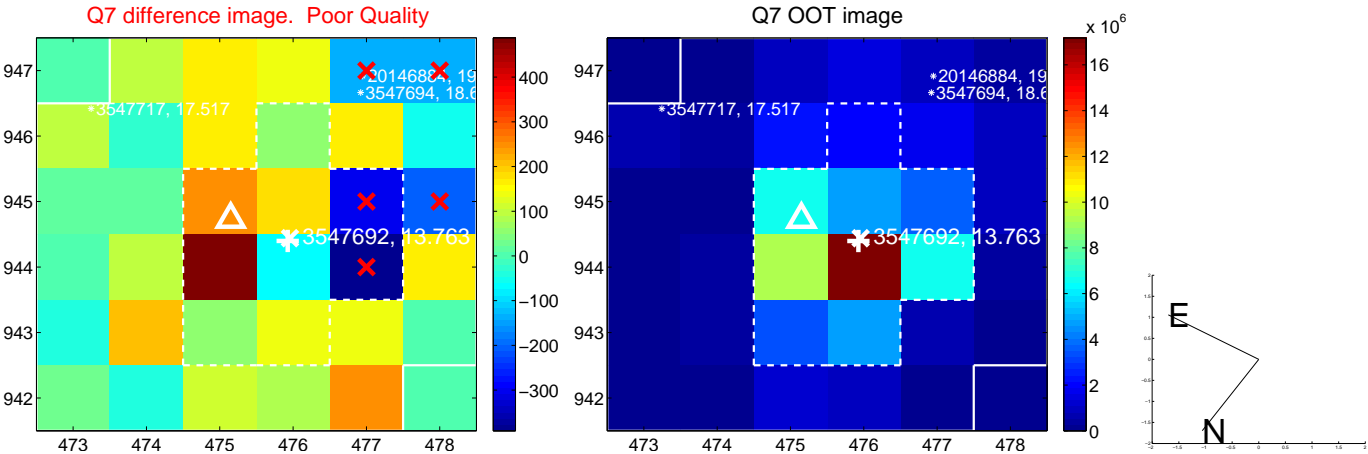
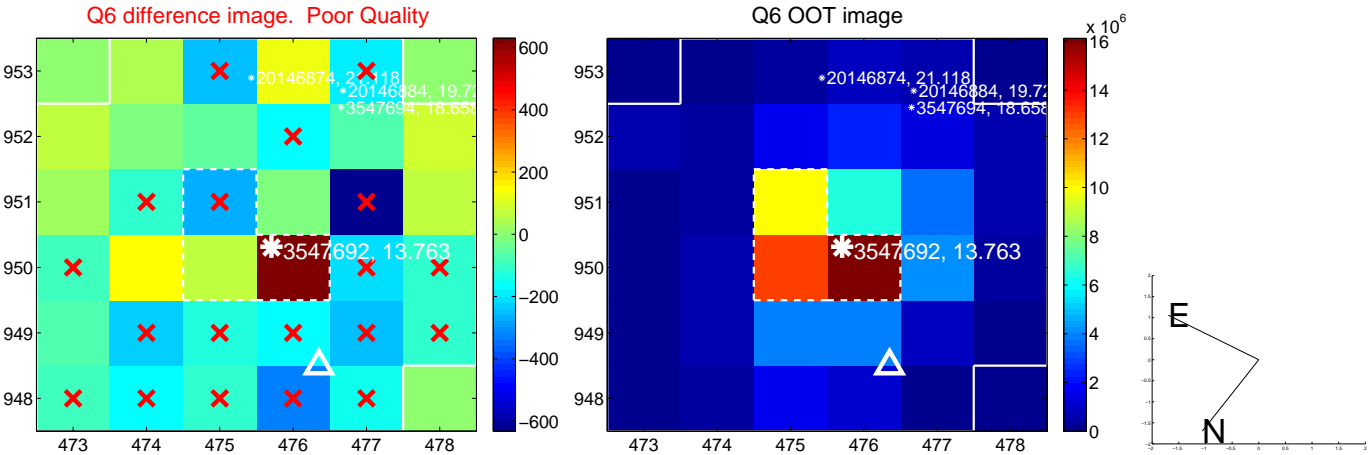
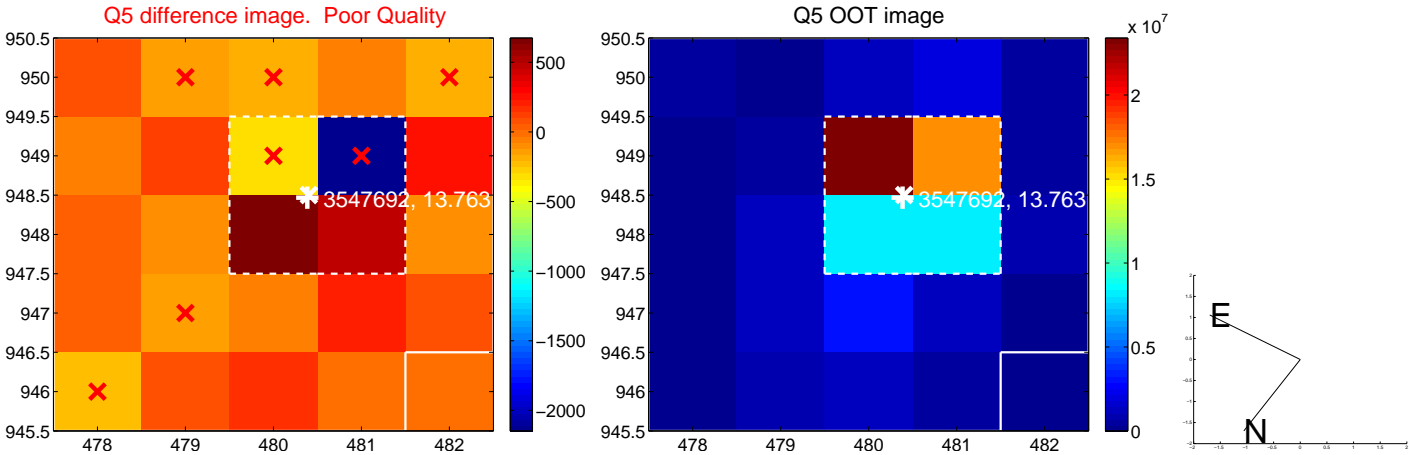


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

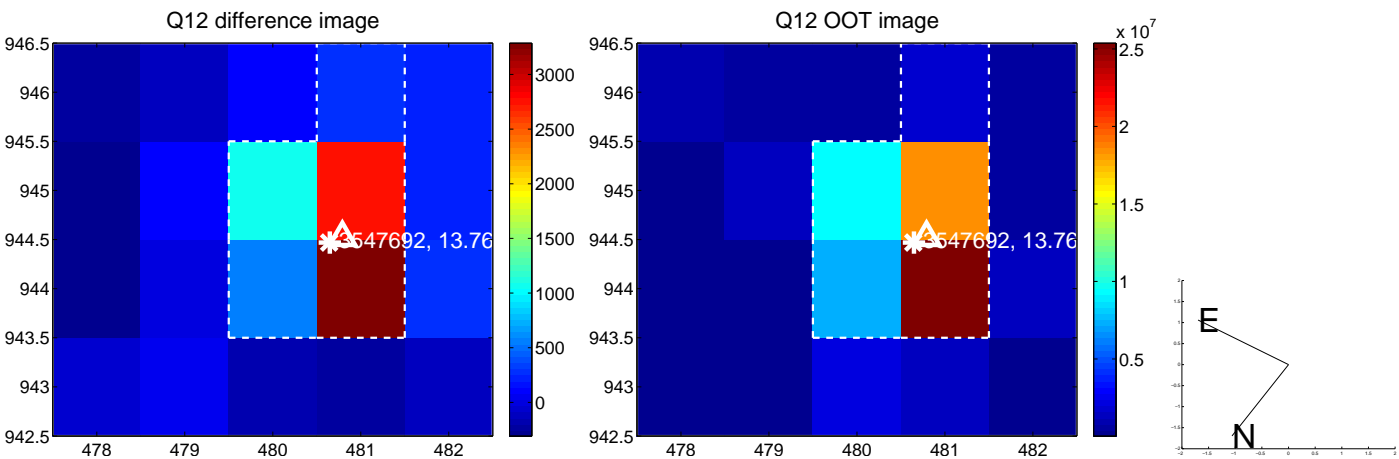
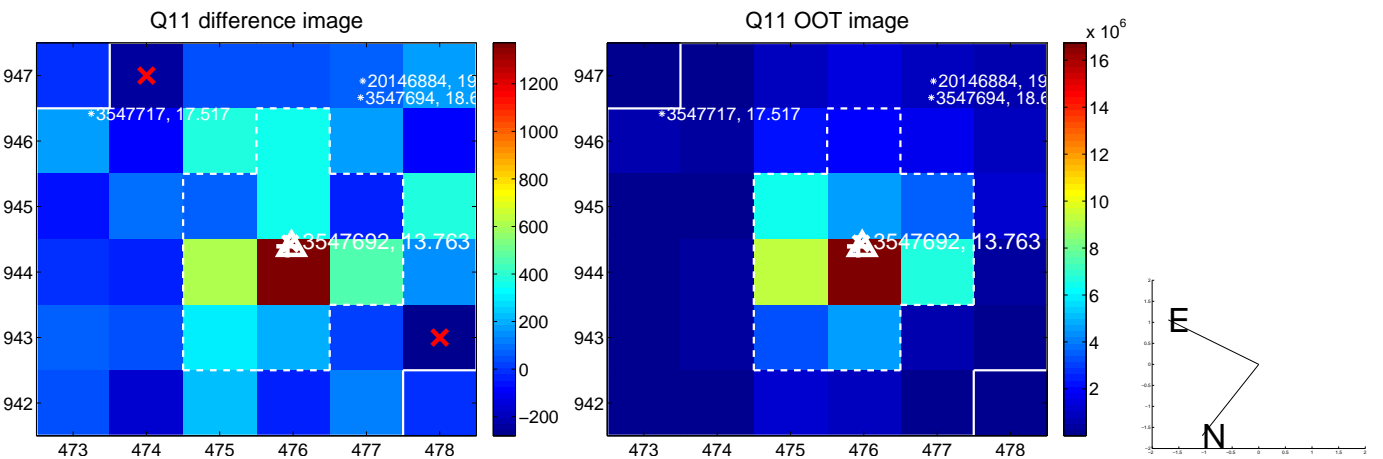
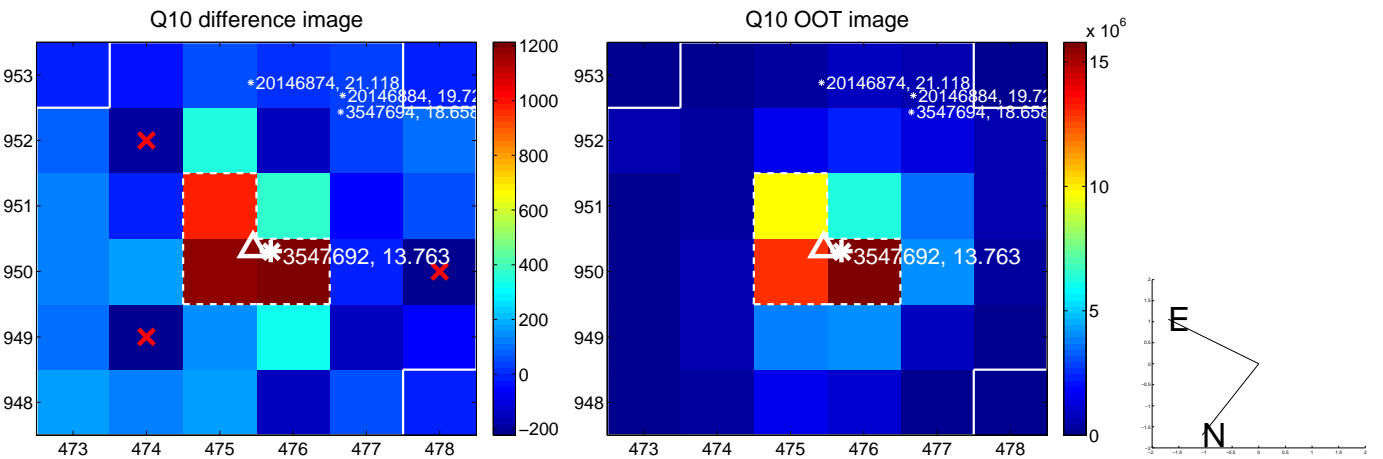
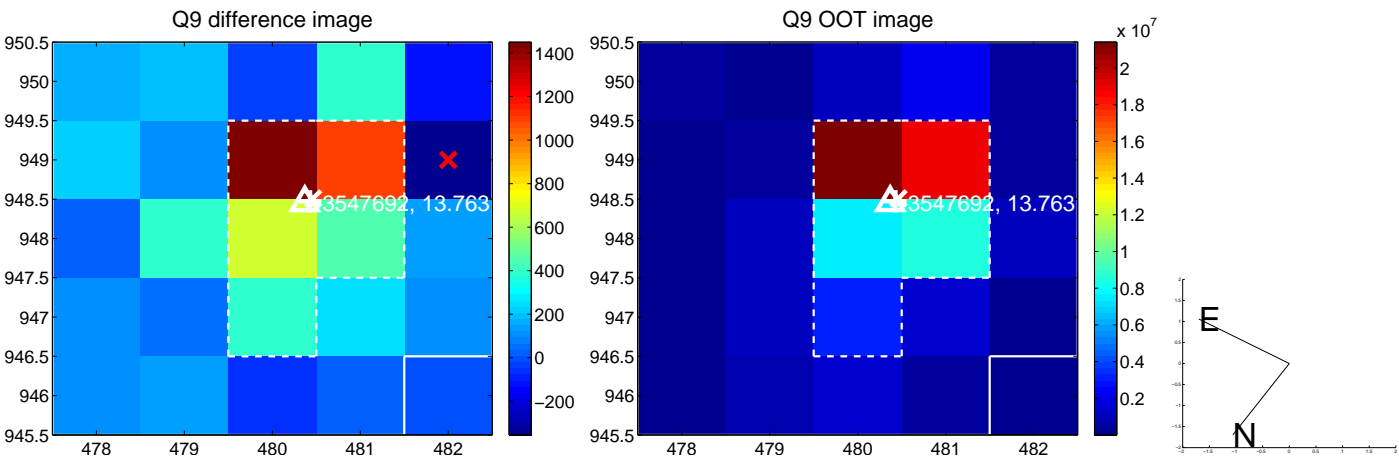
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



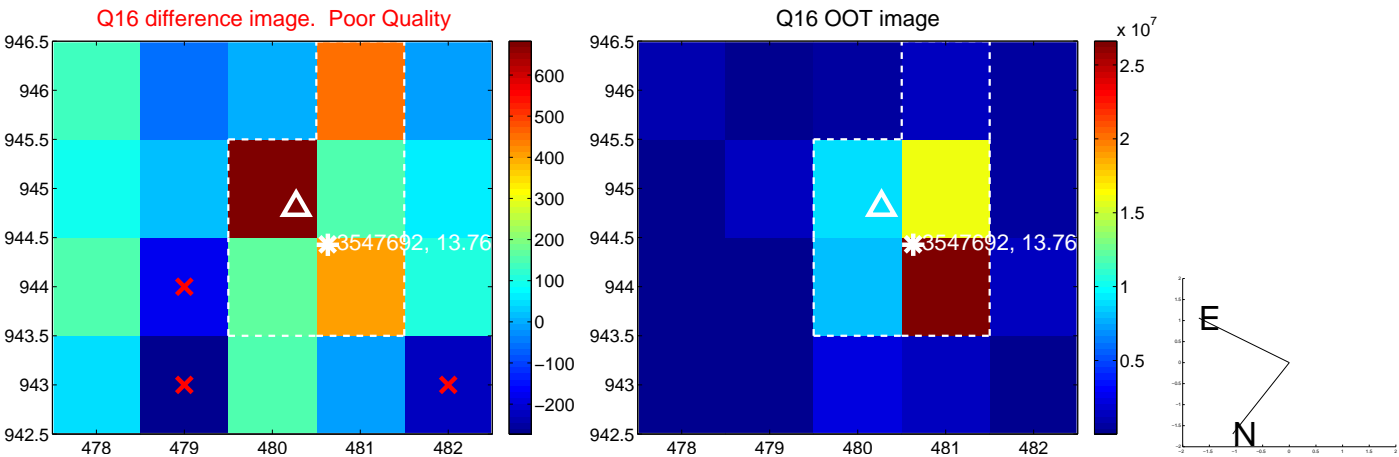
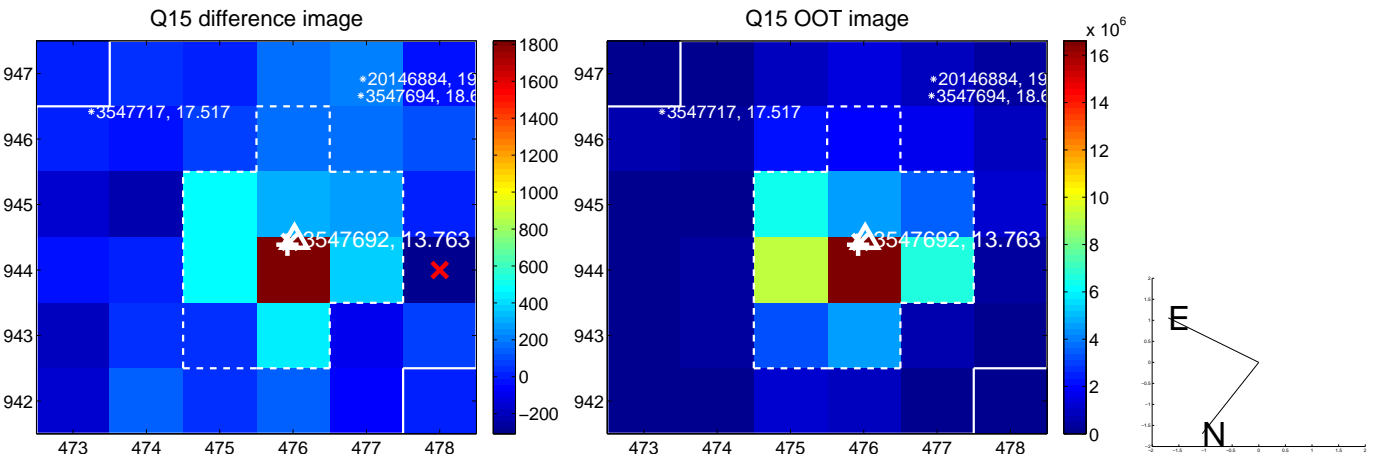
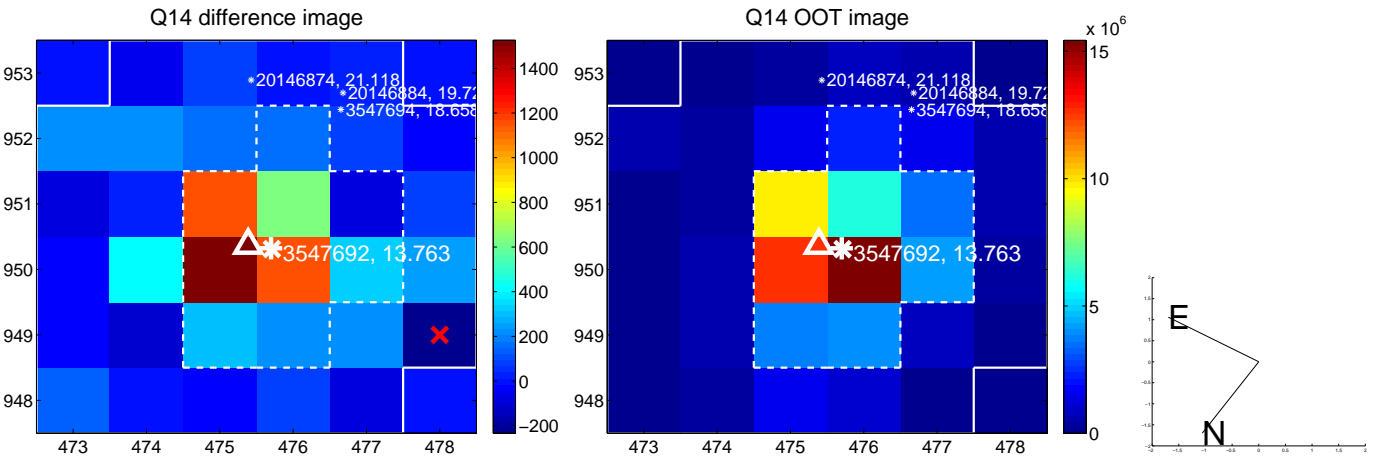
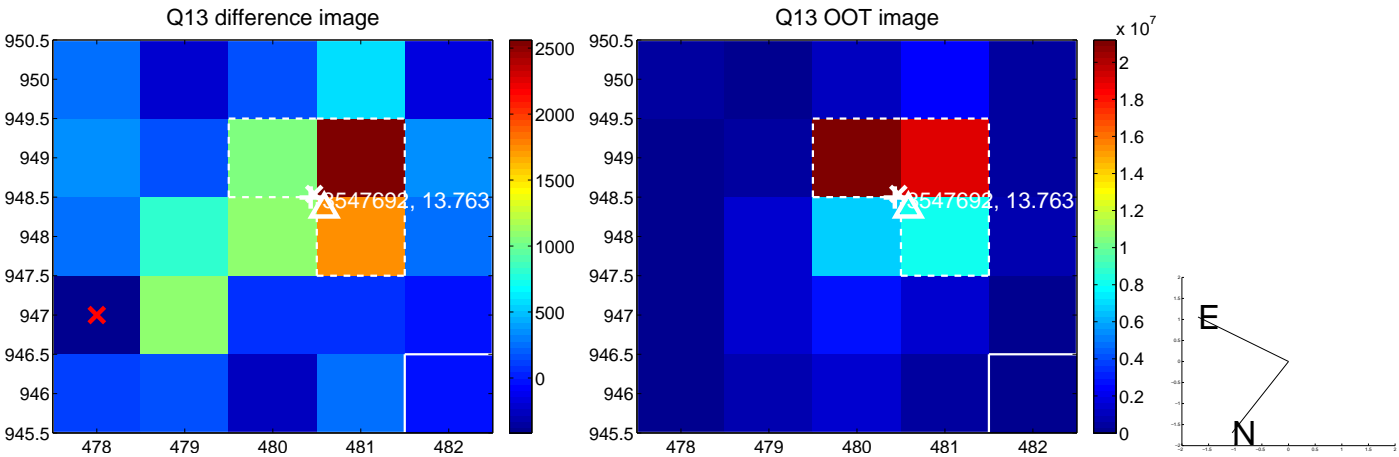
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



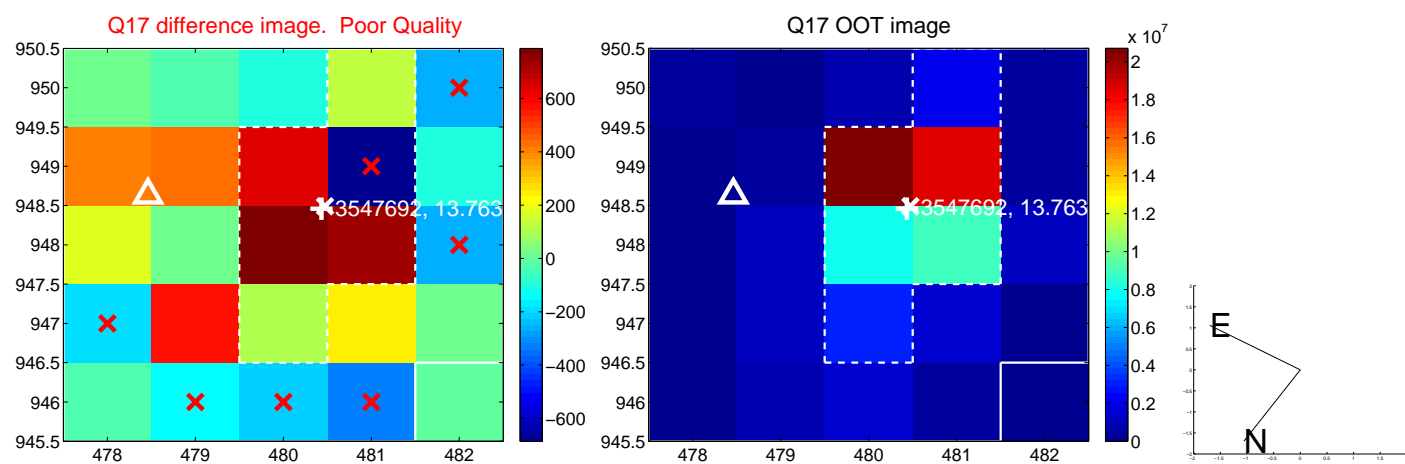
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.



UKIRT Image

