

KIC 011206101

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})
011206101-01	OBS	No	0.742320	132.256768	13.9	4.615	10.0	6.3	3.75	6675	1.63	68074.53
011206101-02	OBS	No	45.022865	152.666586	134.9	8.795	15.0	4.5	3.75	6675	4.85	285.67
011206101-03	OBS	No	35.092038	138.447914	252.3	2.909	7.3	9.1	3.75	6675	6.31	398.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011206101-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
011206101-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
011206101-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_FEW_MEAS—HALO_GHOST

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

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

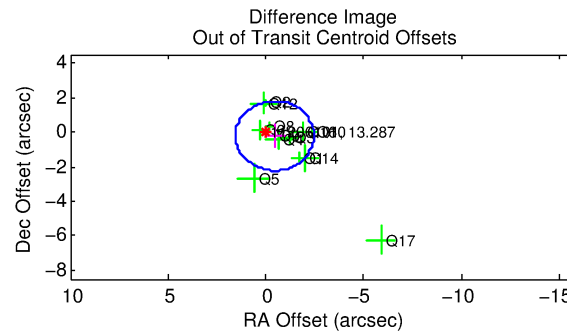
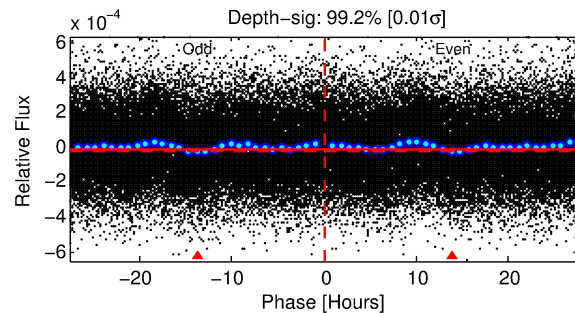
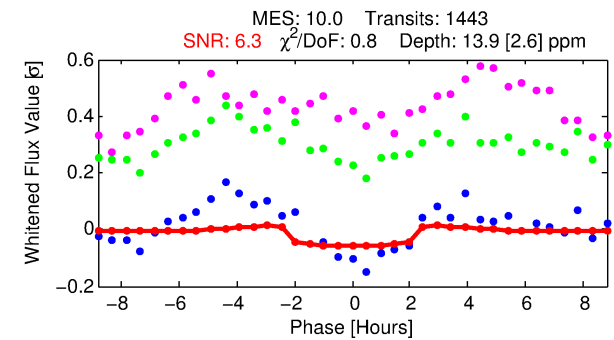
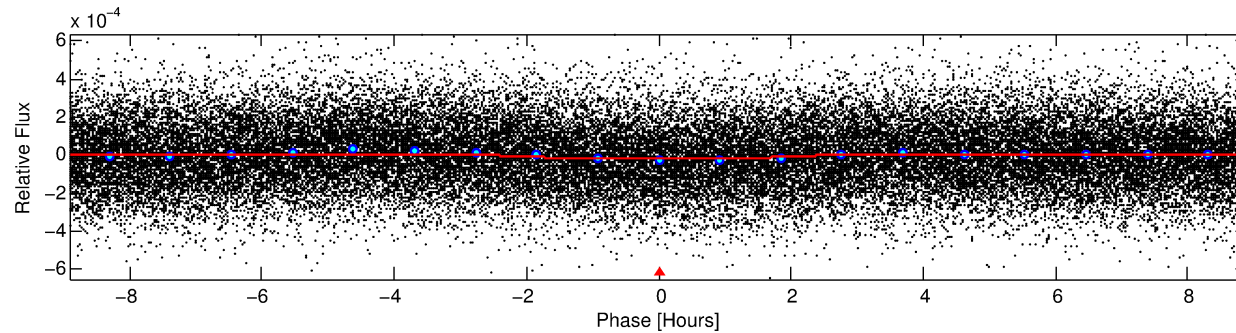
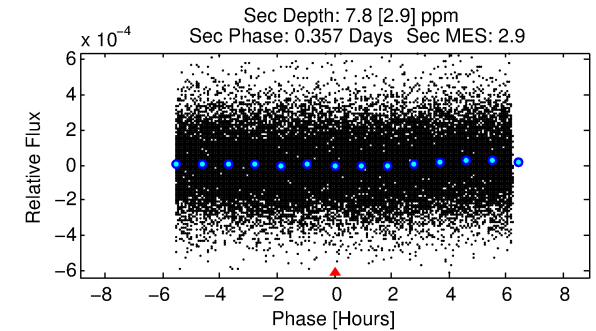
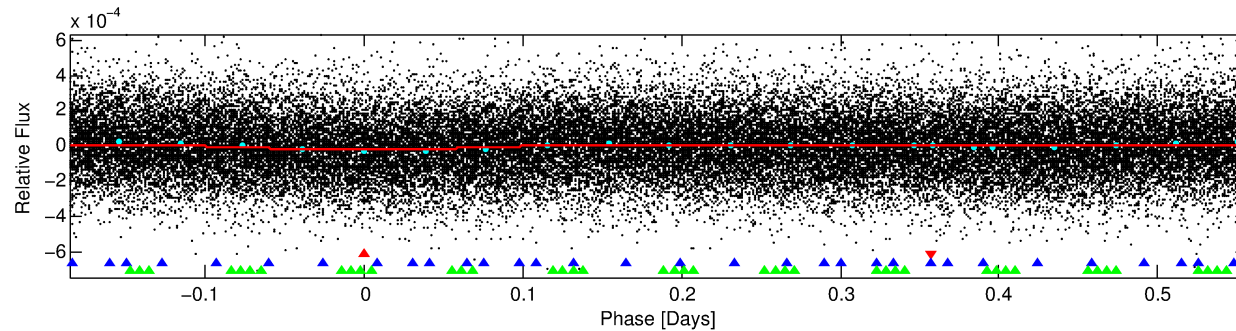
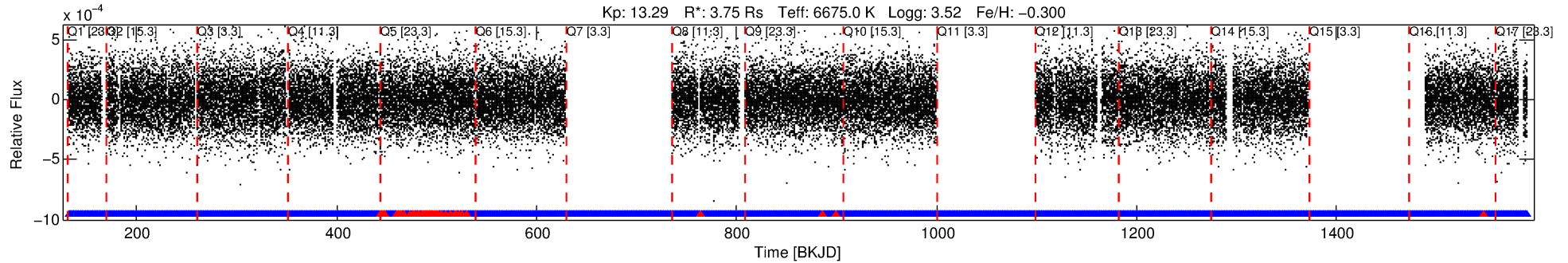
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011206101-01

No Significant Match Found

DV One-Page Summary

KIC: 11206101 Candidate: 1 of 3 Period: 0.742 d



DV Fit Results:

Period = 0.74232 [0.00002] d
Epoch = 132.2568 [0.0060] BKJD
Rp/R* = 0.0040 [0.0028]
a/R* = 1.09 [0.72]
b = 0.90 [0.91]
Seff = 68074.53 [43031.36]
Teq = 4119 [651] K
Rp = 1.63 [1.33] Re
a = 0.0192 [0.0075] AU
Ag = 0.59 [0.94] [-0.43σ]
Teffp = 5588 [2041] K [0.69σ]

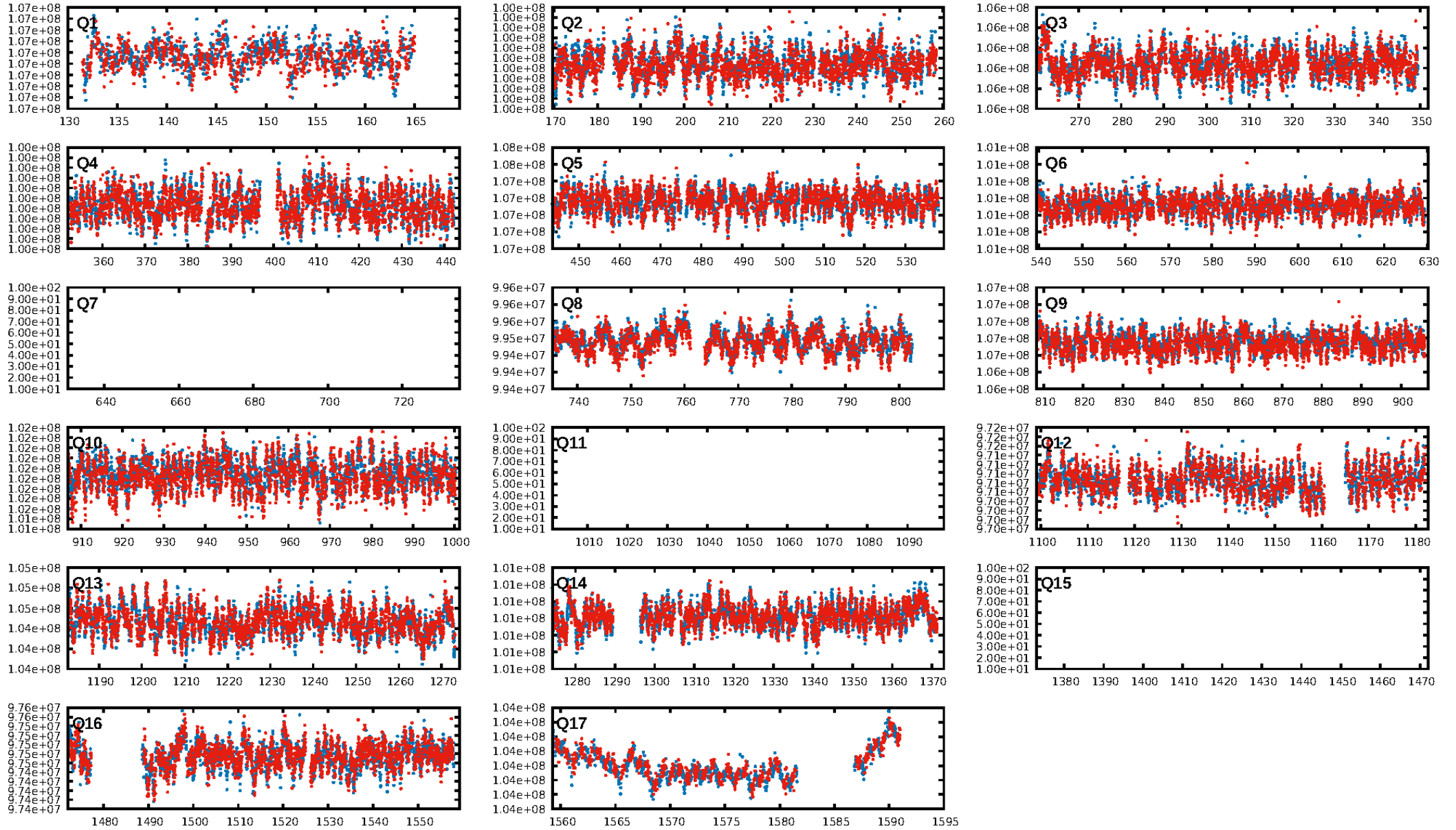
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [151.11σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.82e-16
RollingBand-fgt: 0.96 [1310/1361]
GhostDiagnostic-chr: 3.144
Centroid-sig: 5.2%
Centroid-so: 1.537 arcsec [1.14σ]
OotOffset-rm: 0.494 arcsec [0.74σ]
KicOffset-rm: 0.452 arcsec [0.78σ]
OotOffset-st: 4/1/4/4 [13]
KicOffset-st: 4/1/4/4 [13]
DiffImageQuality-fgm: 0.62 [8/13]
DiffImageOverlap-fno: 1.00 [14/14]

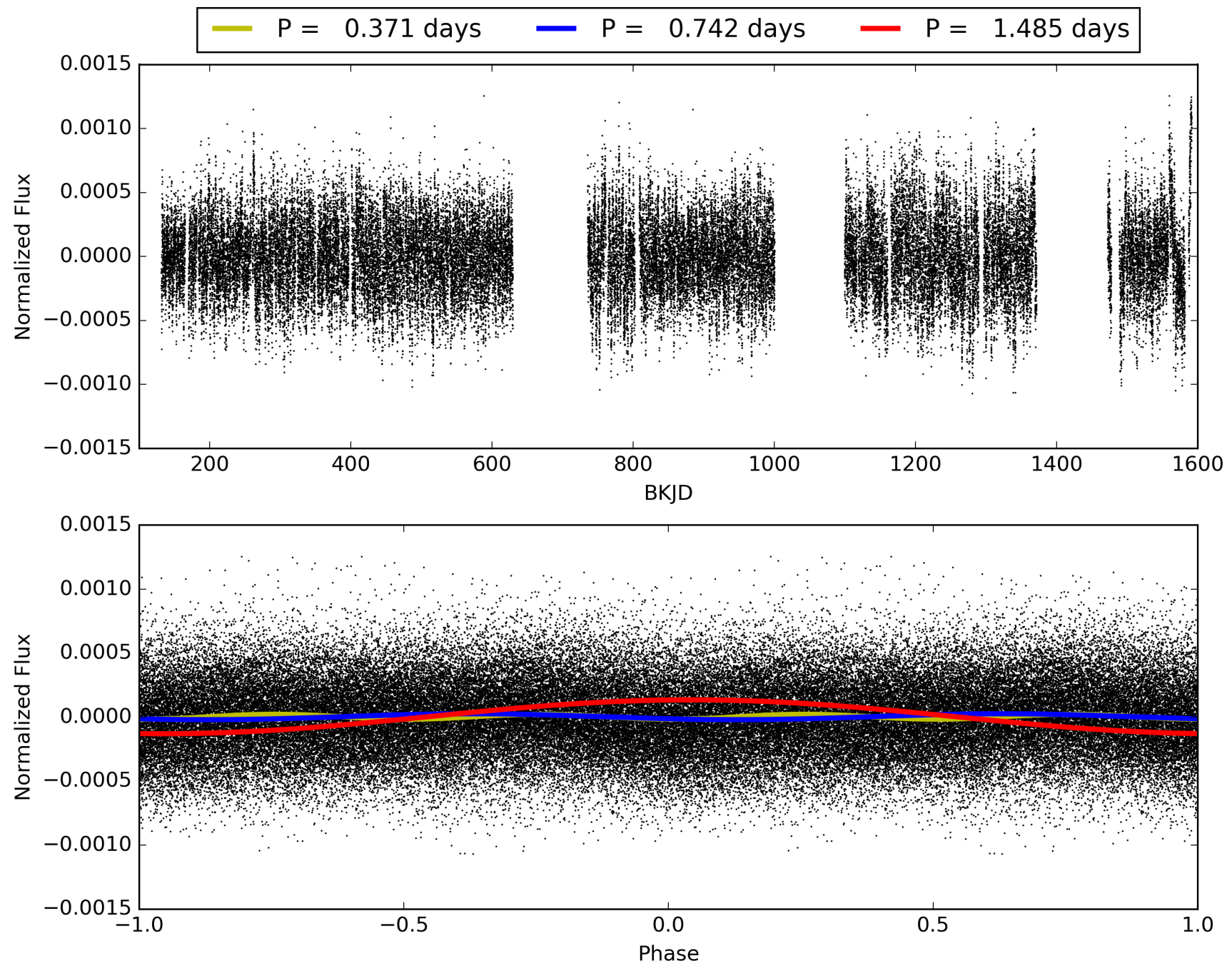
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 10:27:15 Z

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

TCE 011206101-01, PDC Light Curves

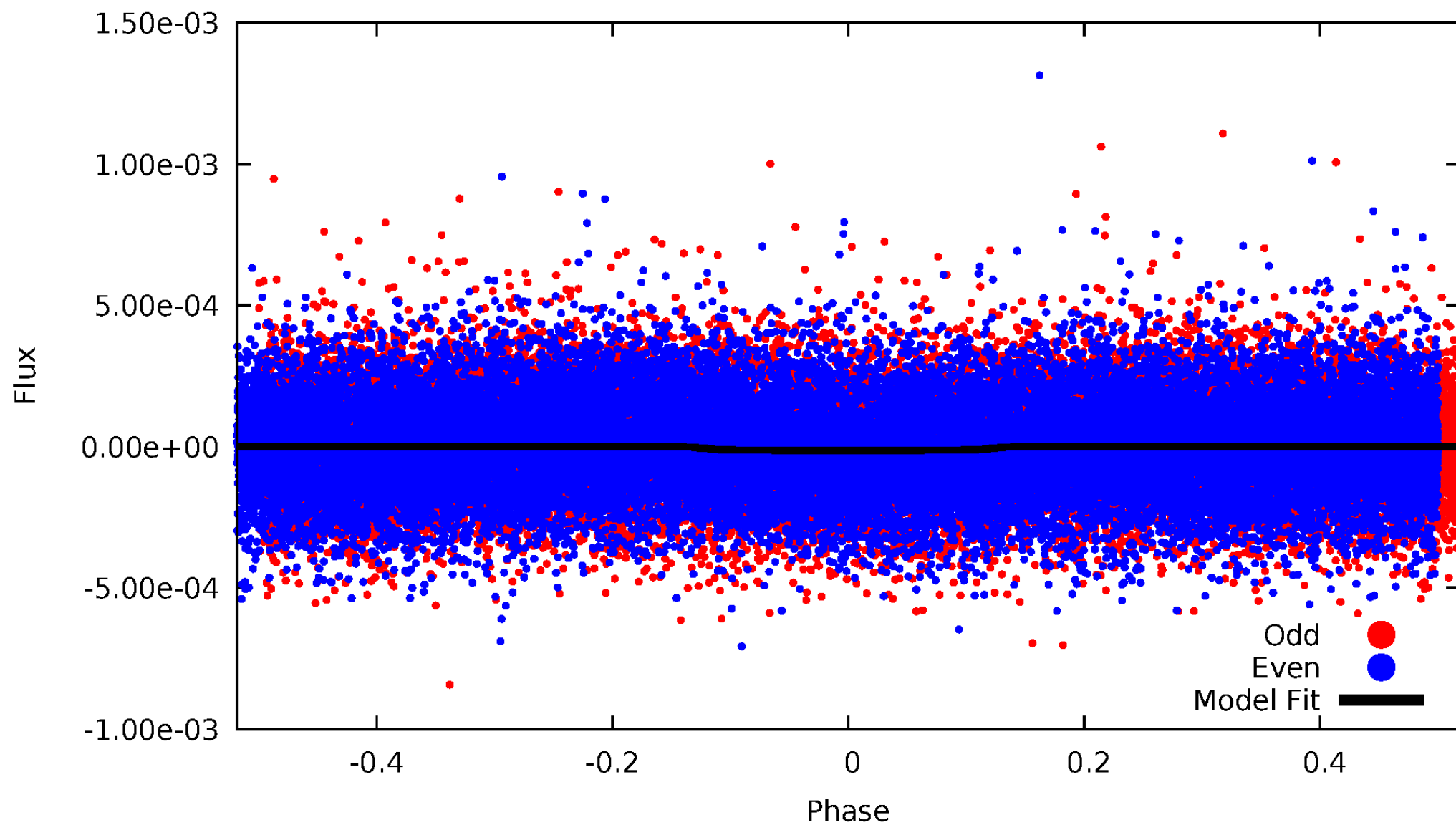


TCE 011206101-01



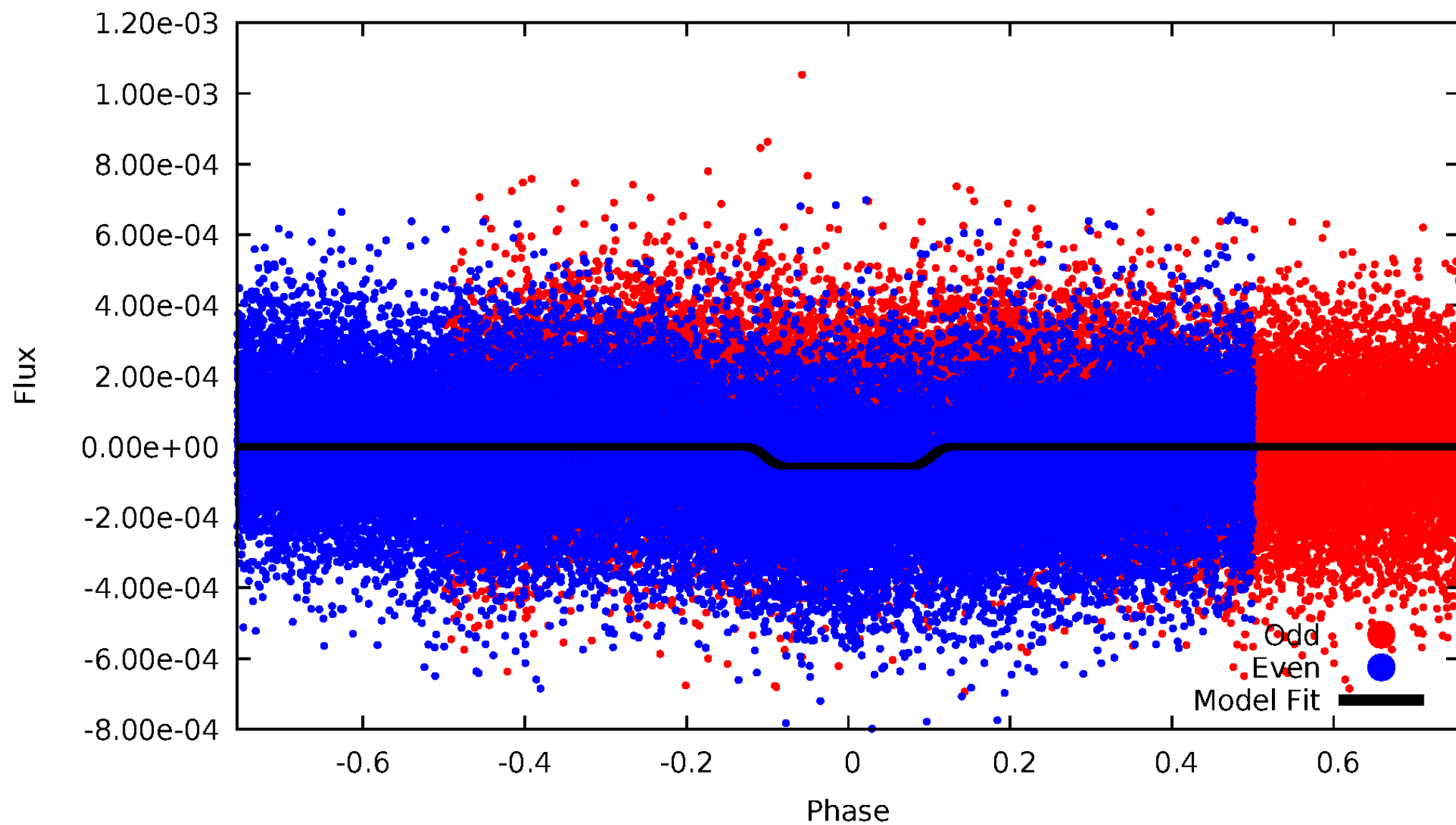
DV Odd/Even

TCE 011206101-01



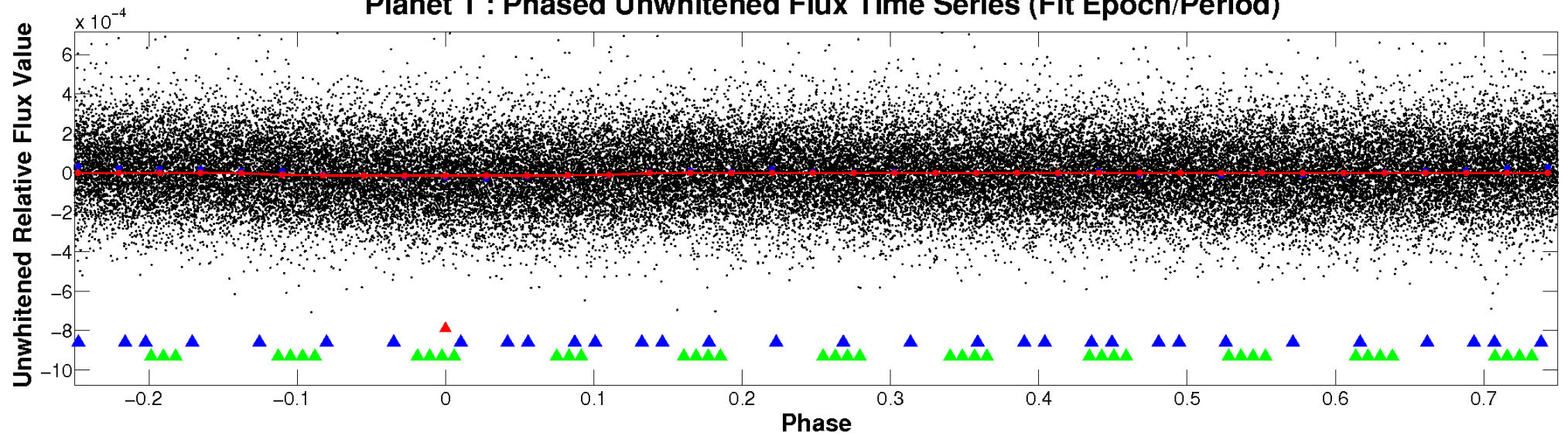
ALT Odd/Even

TCE 011206101-01

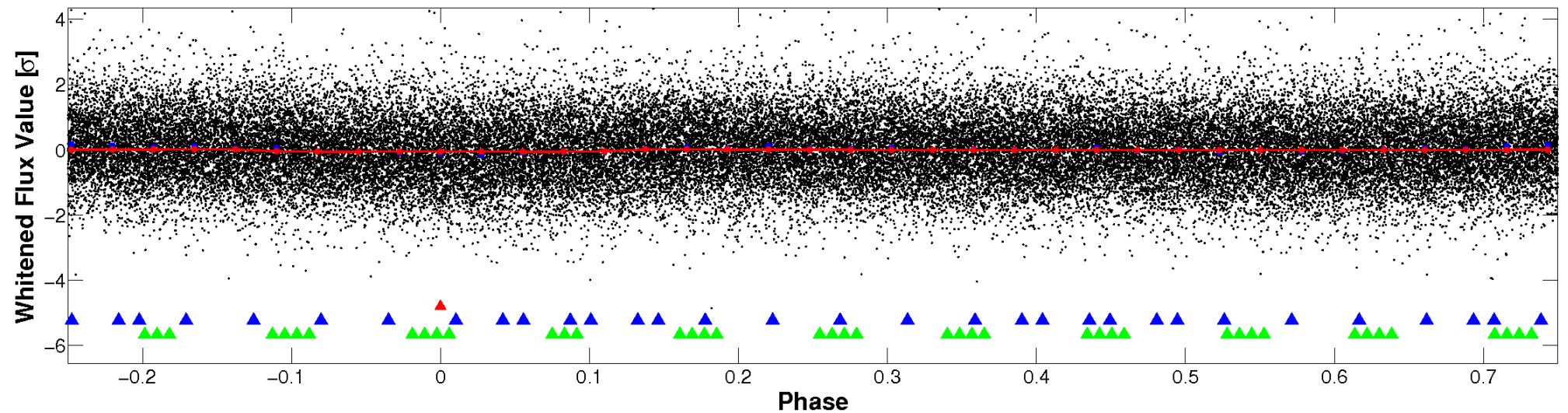


Non-Whitened Vs. Whitened Light Curve

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

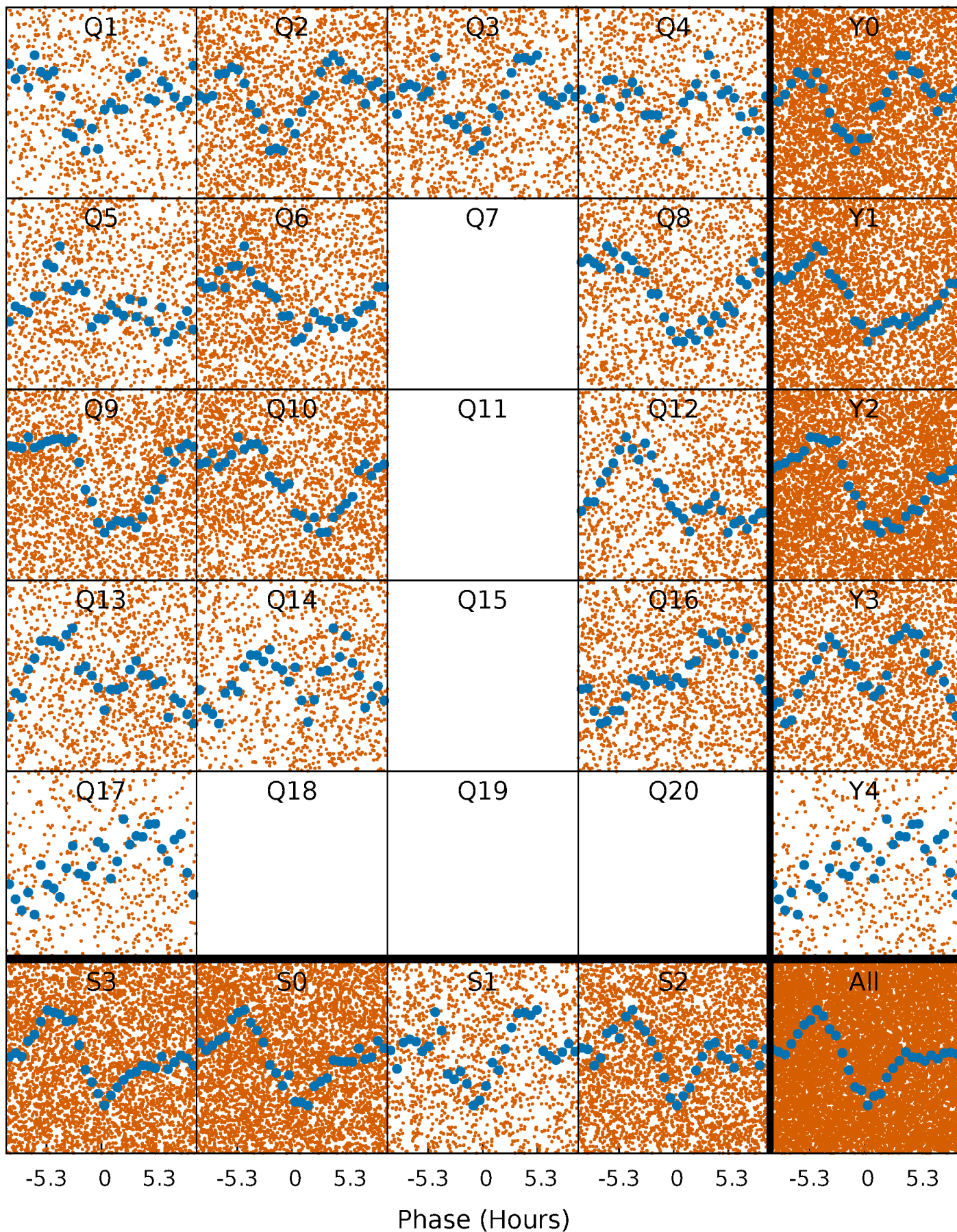


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



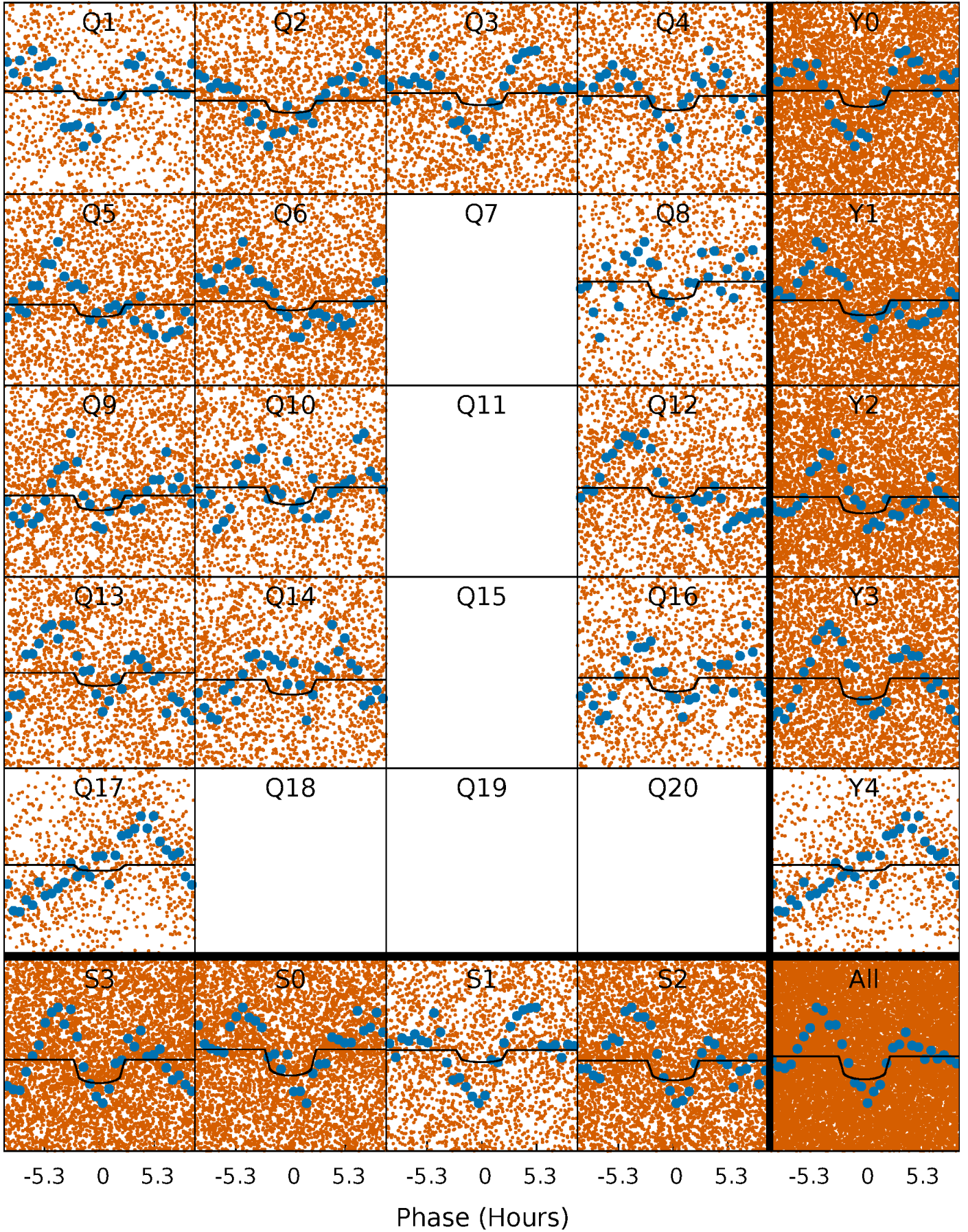
PDC Quarter-Phased Transit Curves

TCE 011206101-01 P= 0.742320 Days $T_0=132.256768$ (BKJD)



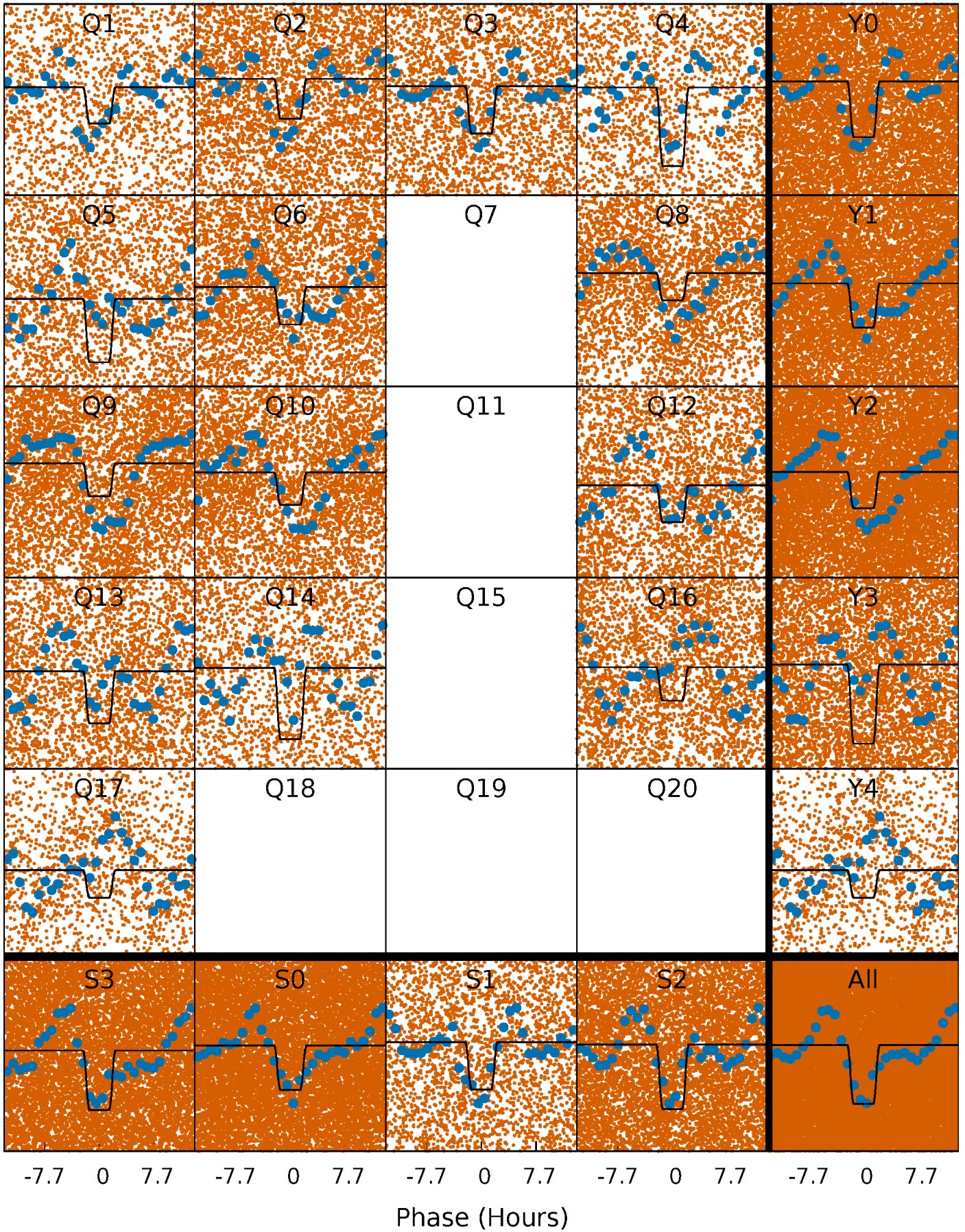
DV Quarter-Phased Transit Curves

TCE 011206101-01 P= 0.742320 Days $T_0=132.256768$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

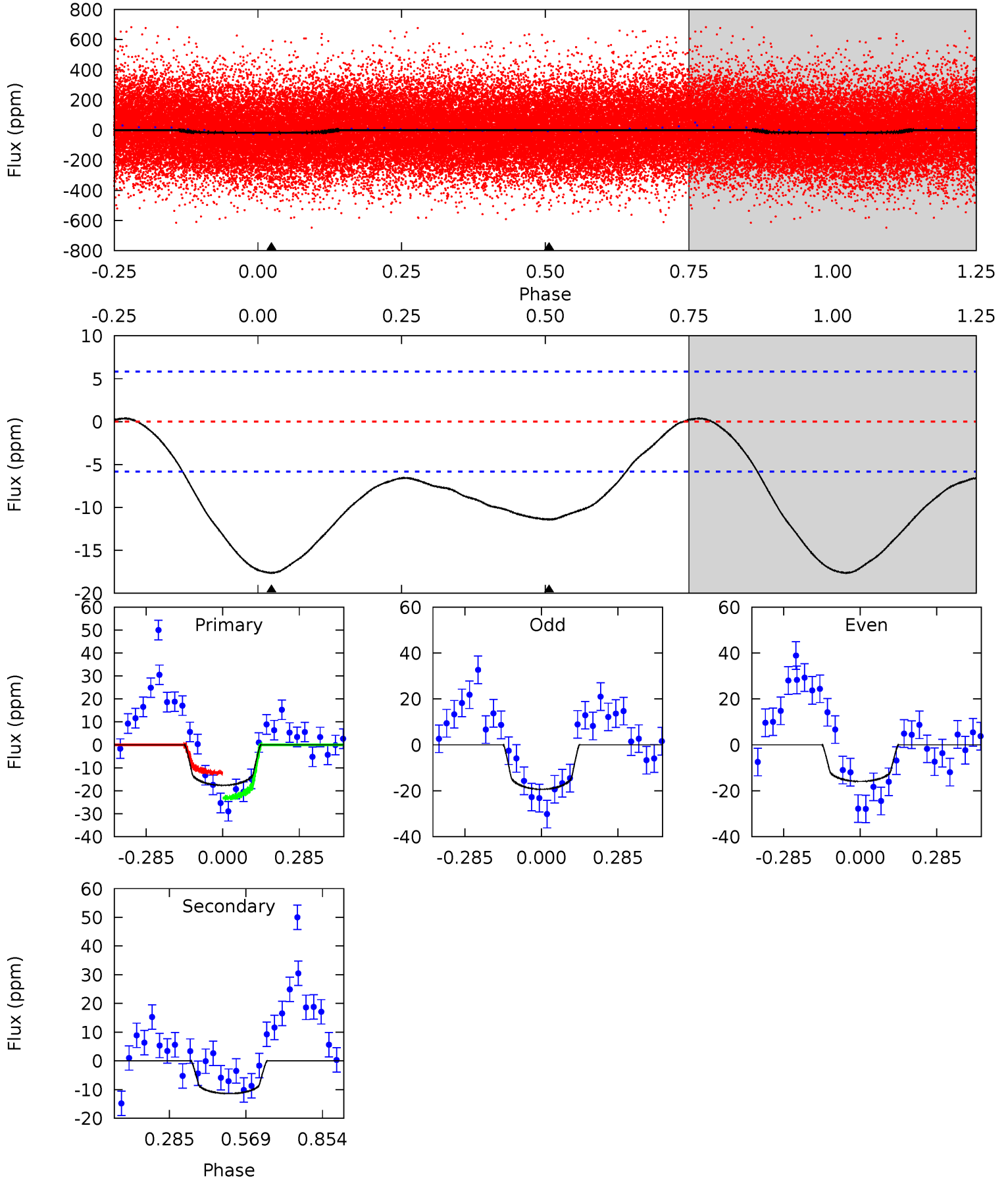
TCE 011206101-01 P= 0.742372 Days $T_0=132.234927$ (BKJD)



DV Model-Shift Uniqueness Test

011206101-01, P = 0.742320 Days, E = 130.772128 Days

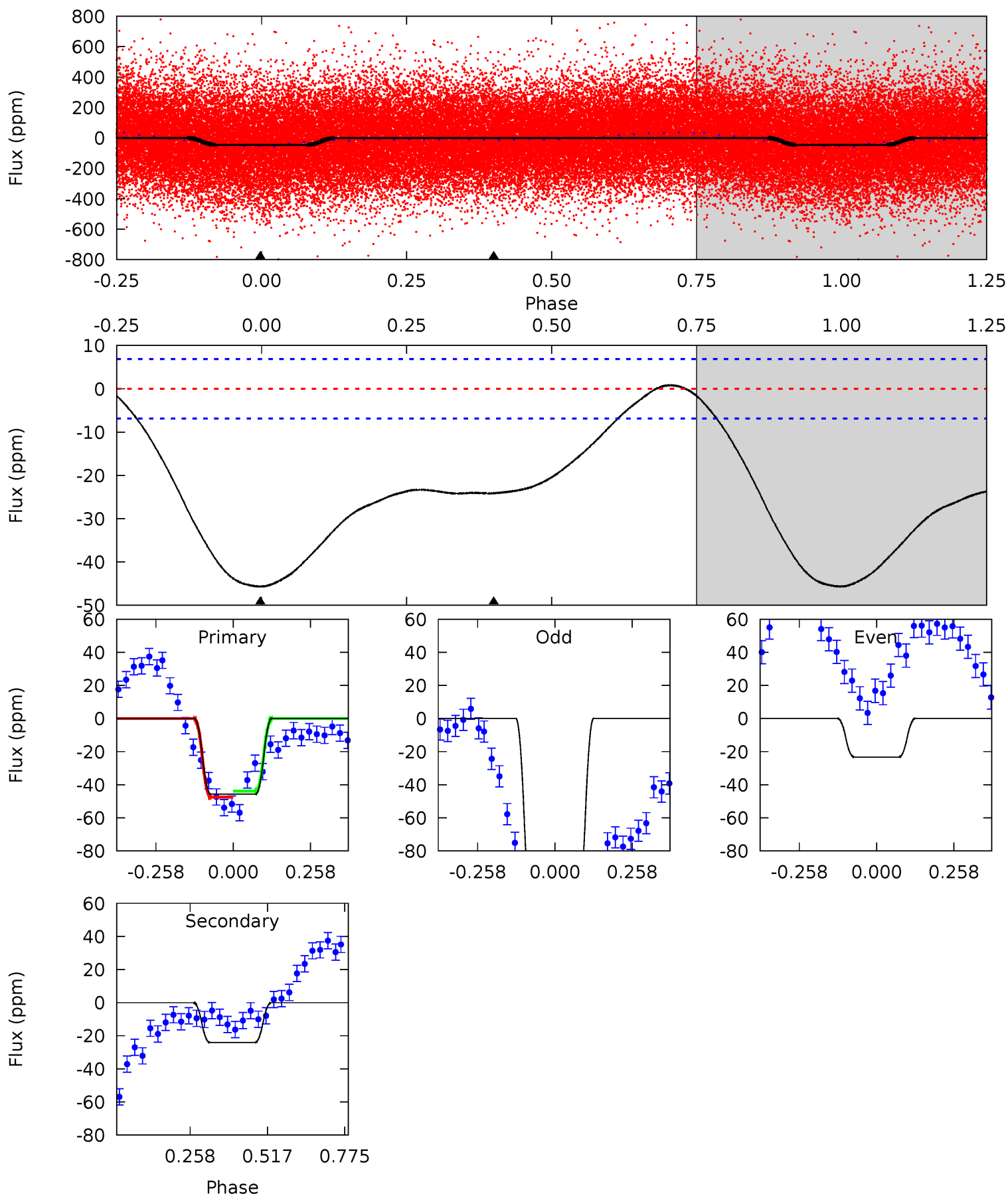
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.1	8.48	0	0	4.34	1.07	2.38	13.1	13.1	8.48	8.48	1.27	0.85	0.02	4.09



Alt Model-Shift Uniqueness Test

011206101-01, P = 0.742372 Days, E = 131.492555 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.0	15.3	0	0	4.36	1.13	0.66	29.0	29.0	15.3	15.3	30.3	1.07	0.02	1.11



Stellar Parameters For KIC 011206101

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6675^{+180}_{-220}	$3.522^{+0.360}_{-0.090}$	$-0.300^{+0.350}_{-0.250}$	$3.755^{+0.390}_{-1.561}$	$1.711^{+0.172}_{-0.400}$	$0.045^{+0.127}_{-0.013}$
	+3%/-3%	+10%/-3%	+117%/-83%	+10%/-42%	+10%/-23%	+279%/-28%
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 011206101-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-11 ± 1	$1.62^{+1.05}_{-0.90}$	5637^{+322}_{-554}	5238^{+3914}_{-2171}	$0.867^{+3.809}_{-0.546}$
Alt.	-24 ± 2	$2.78^{+1.25}_{-1.19}$	5653^{+315}_{-588}	4735^{+1817}_{-7445}	$0.657^{+1.193}_{-0.366}$

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 $A_{obs} \gg 1.0$

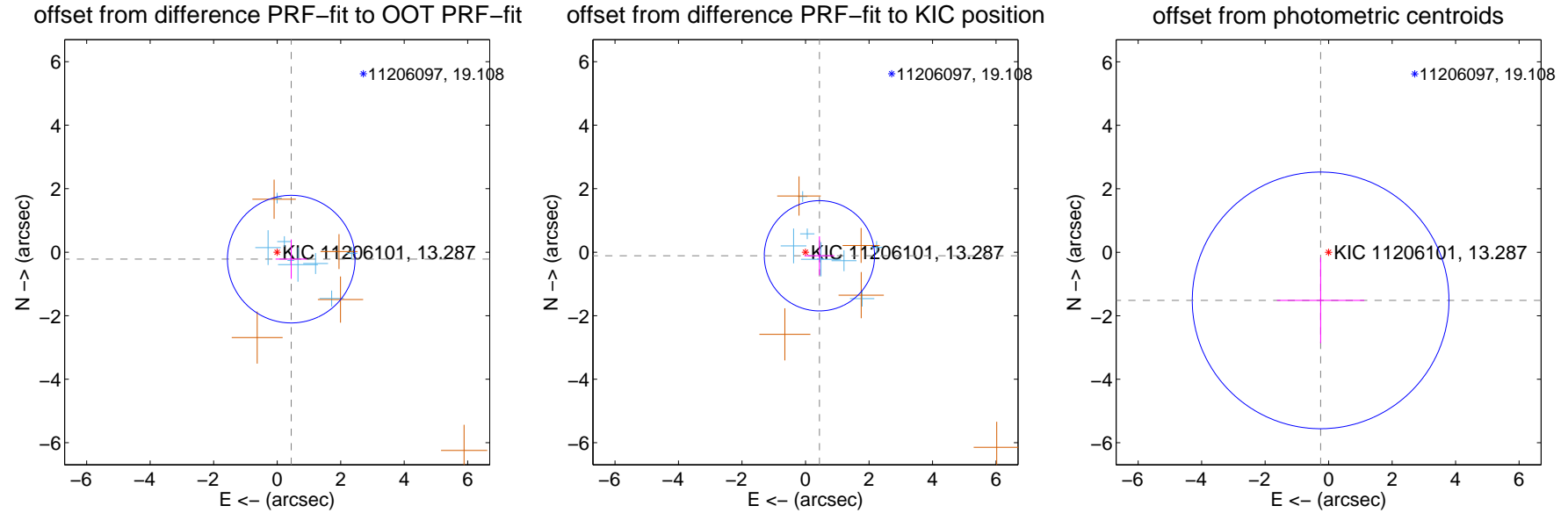
DV Centroid Data

Supplemental centroid analysis for 011206101-01. Kepler magnitude: 13.29. Transit SNR 6.25

There are 8 quarters with good PRF difference image offsets

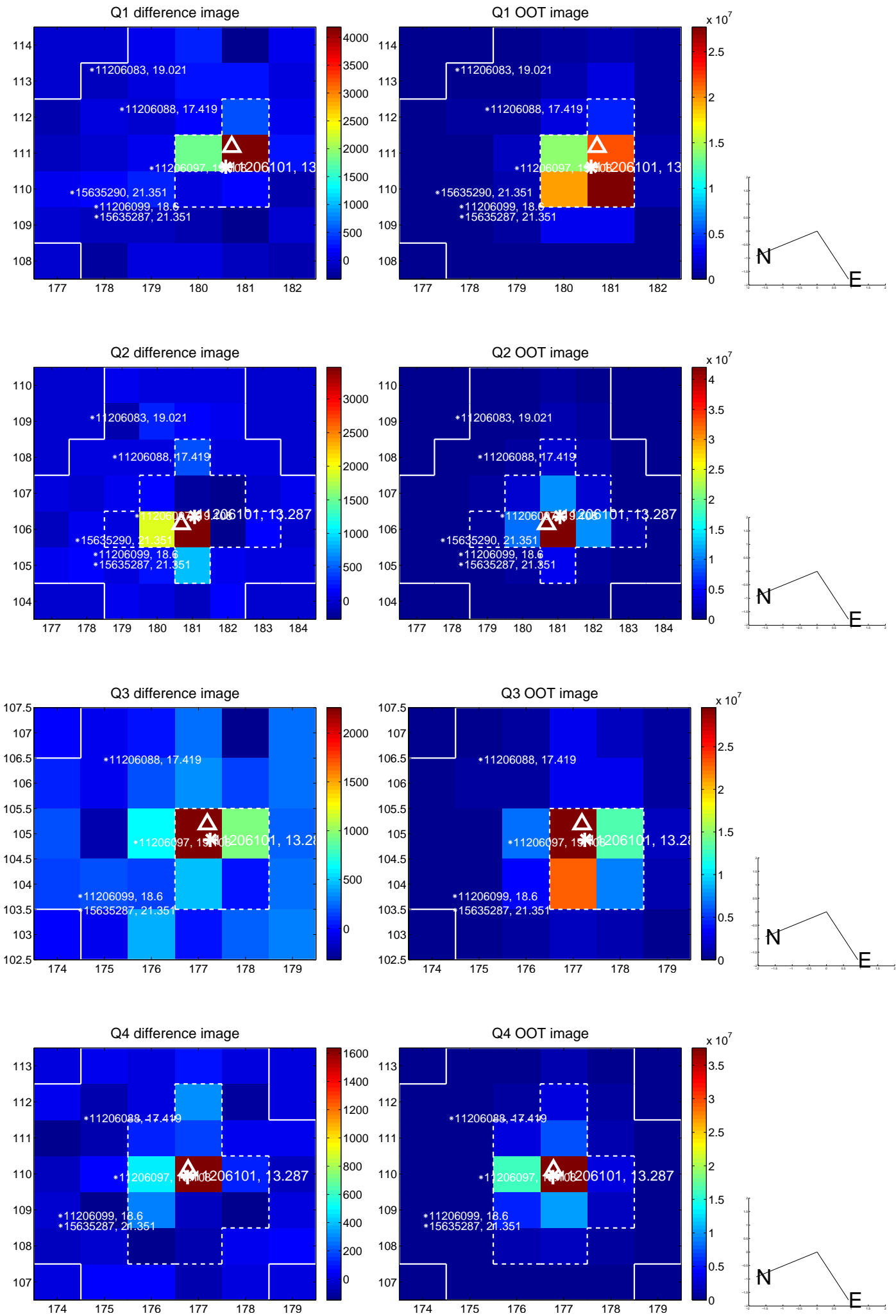
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.494 ± 0.670	0.74	-0.443 ± 0.491	-0.219 ± 0.619
PRF-fit source offset from KIC position	0.452 ± 0.579	0.78	-0.438 ± 0.472	-0.113 ± 0.614
photometric centroid source offset	1.54 ± 1.35	1.14	0.25 ± 1.38	-1.52 ± 1.35

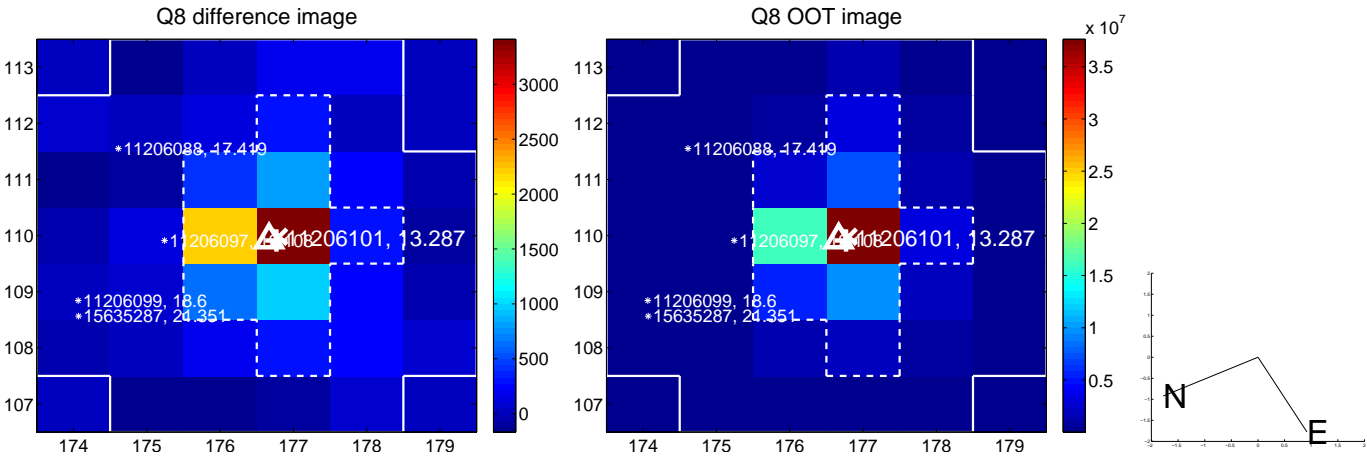
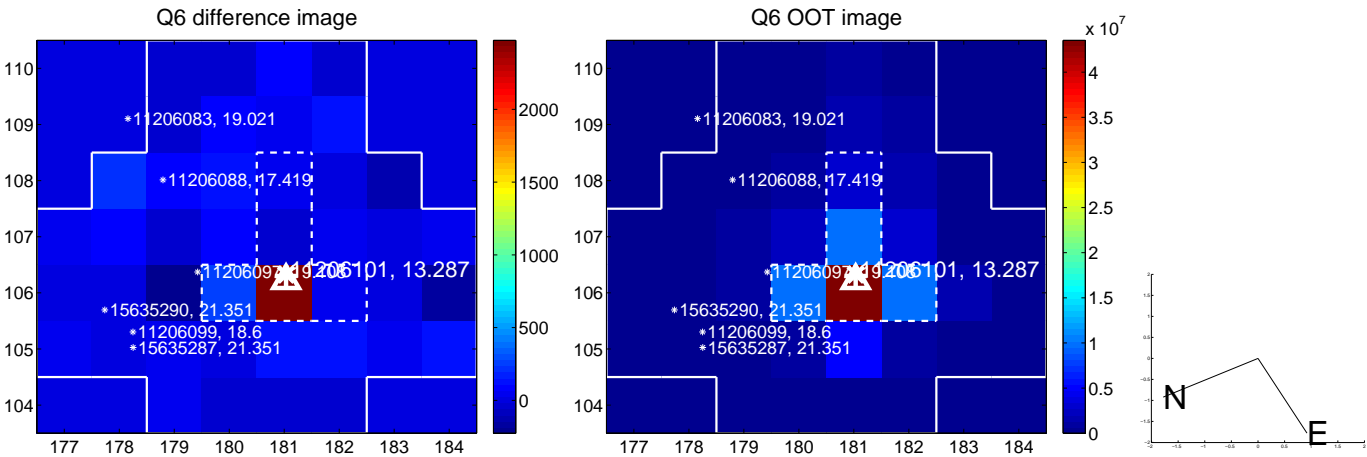
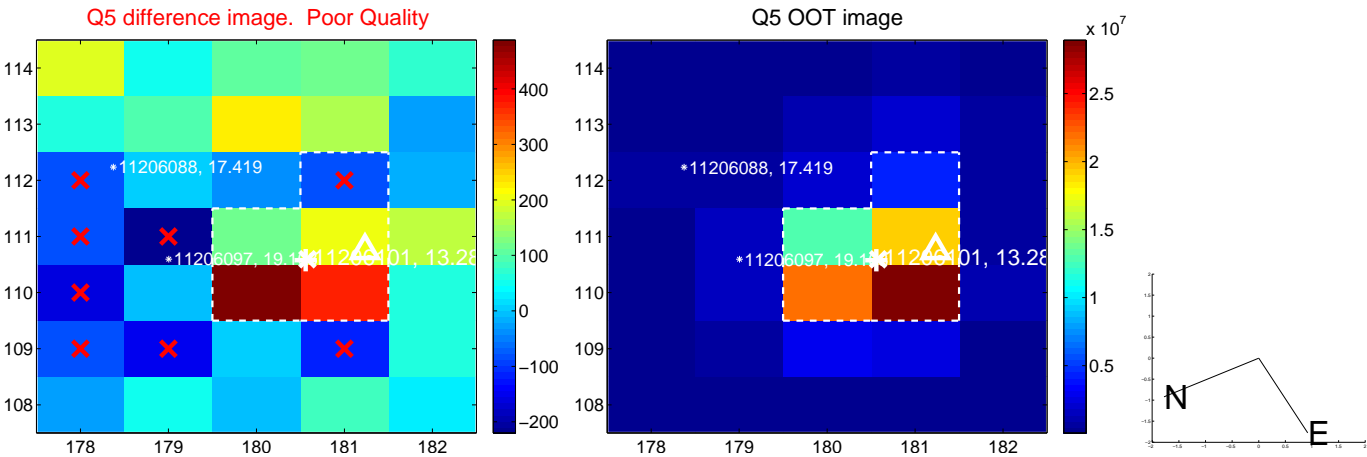


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

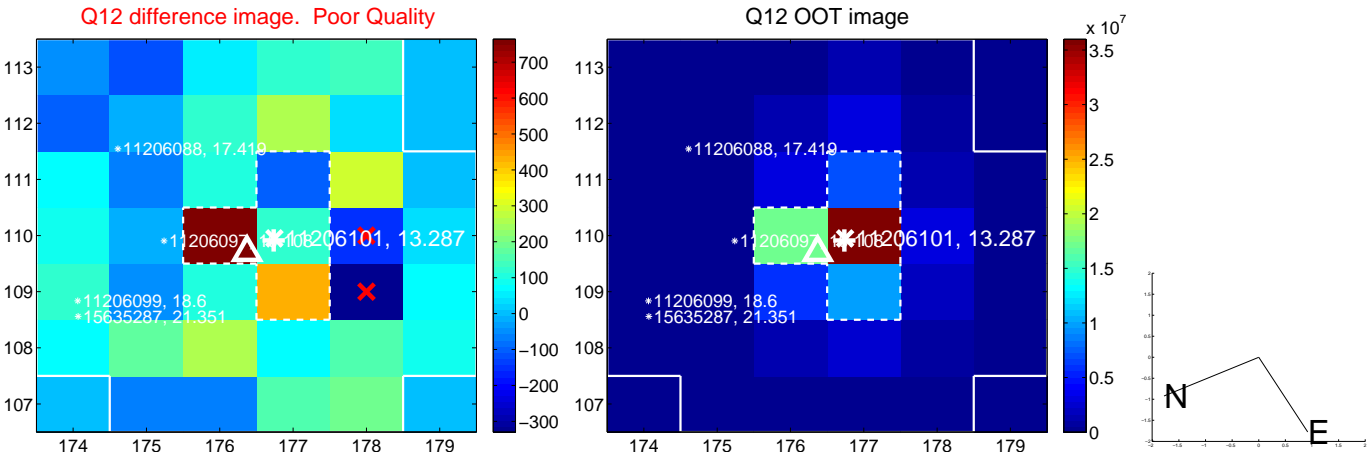
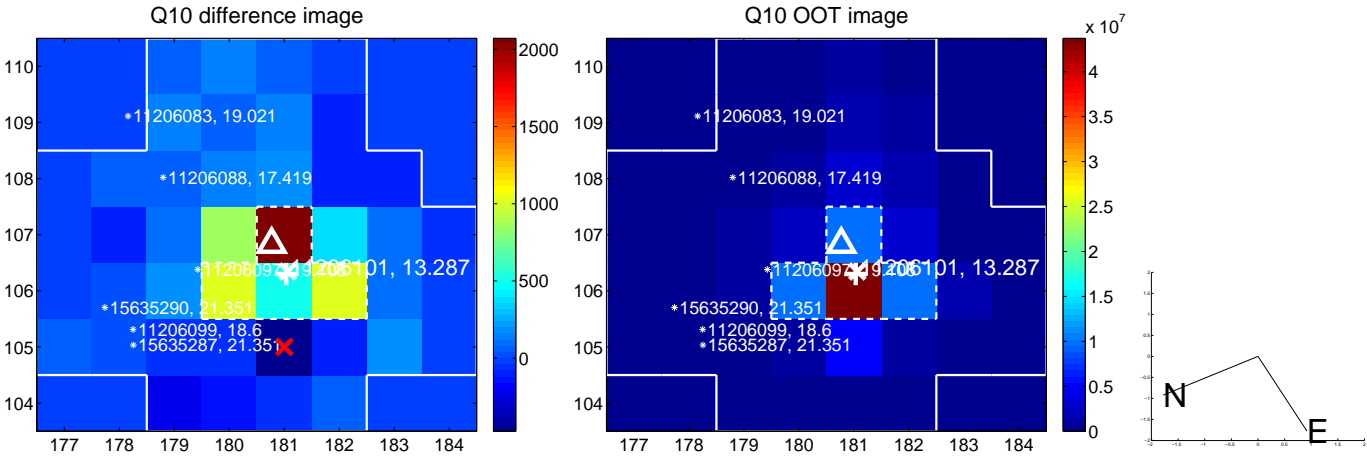
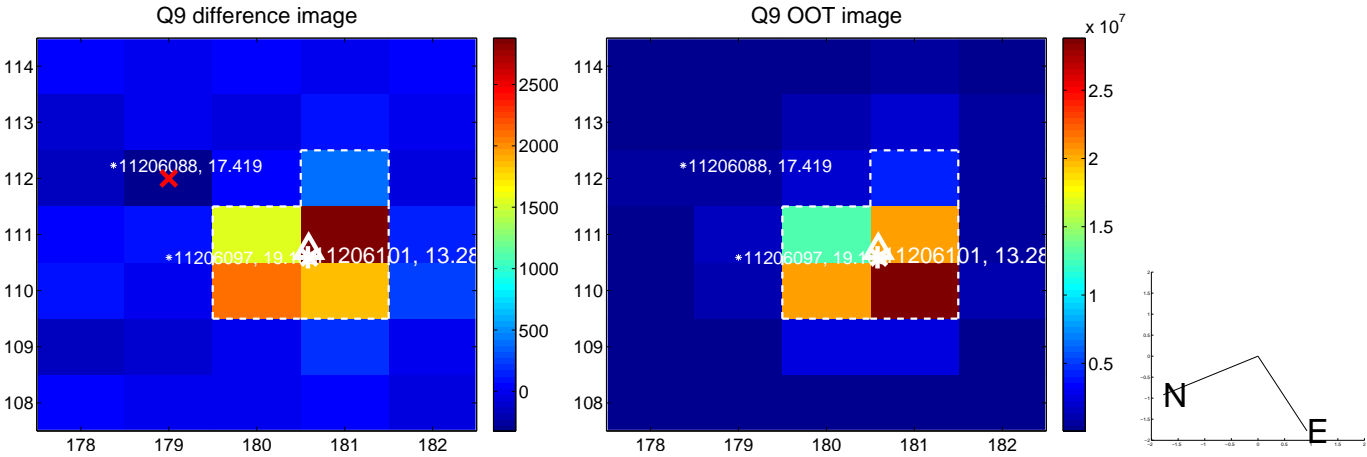
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



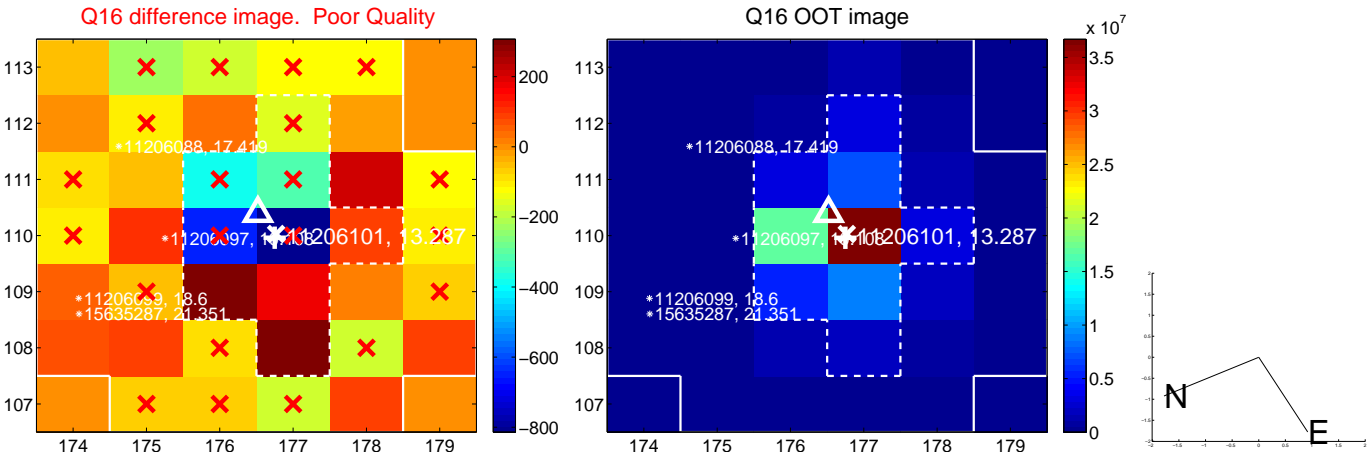
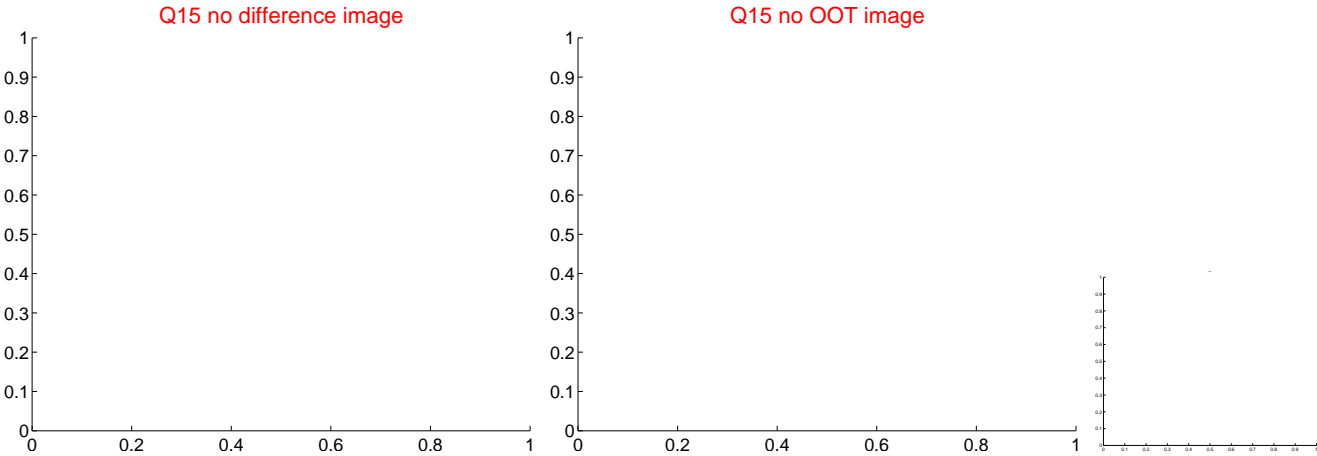
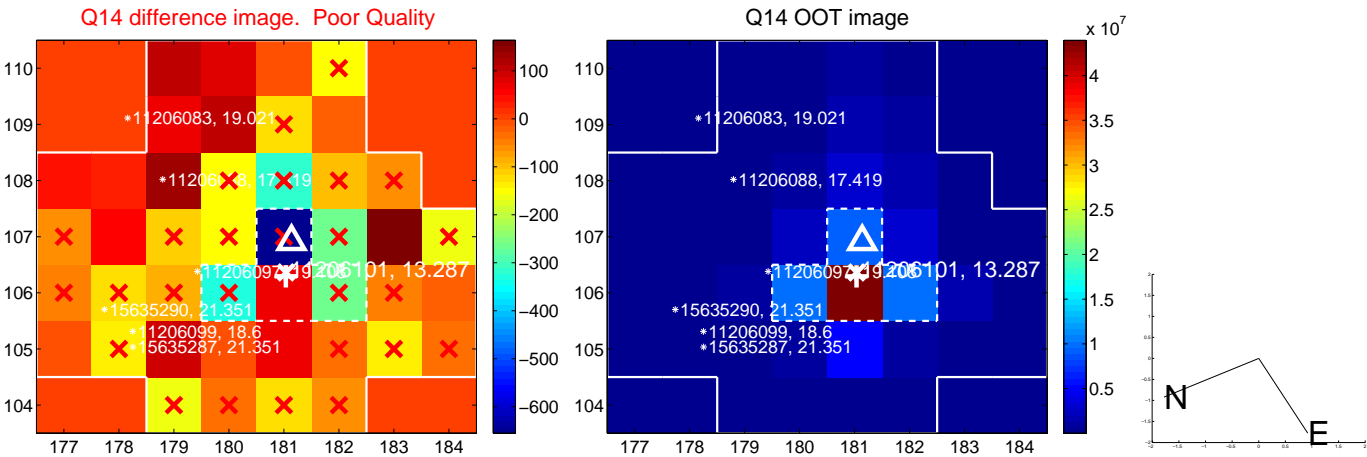
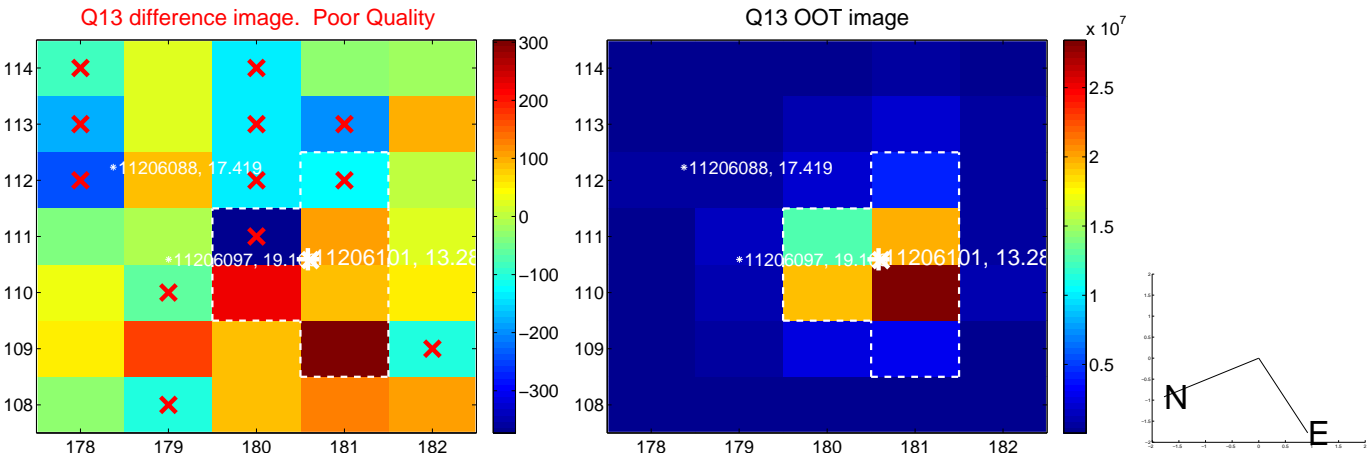
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



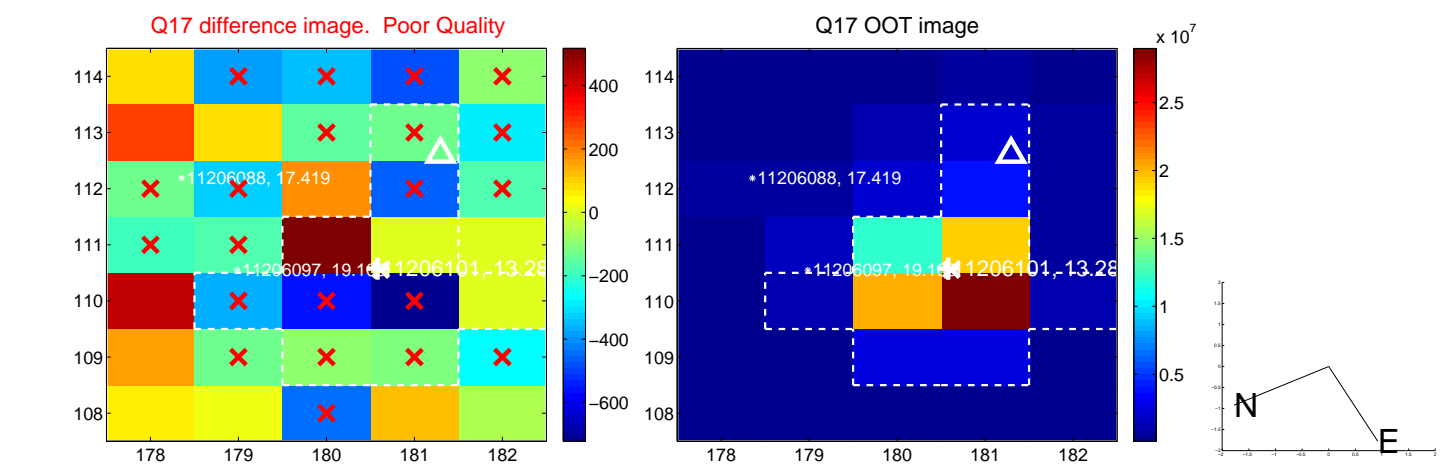
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



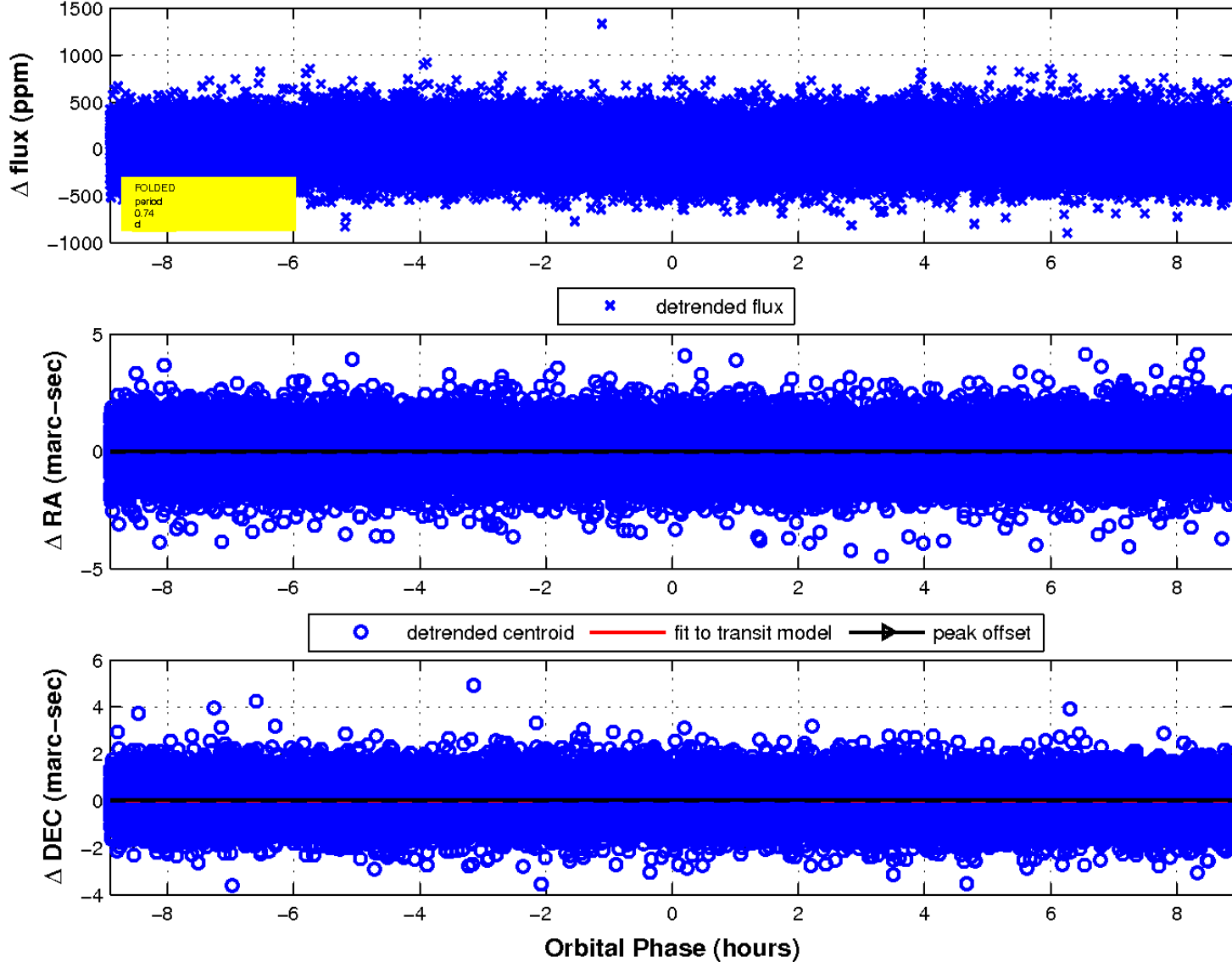
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

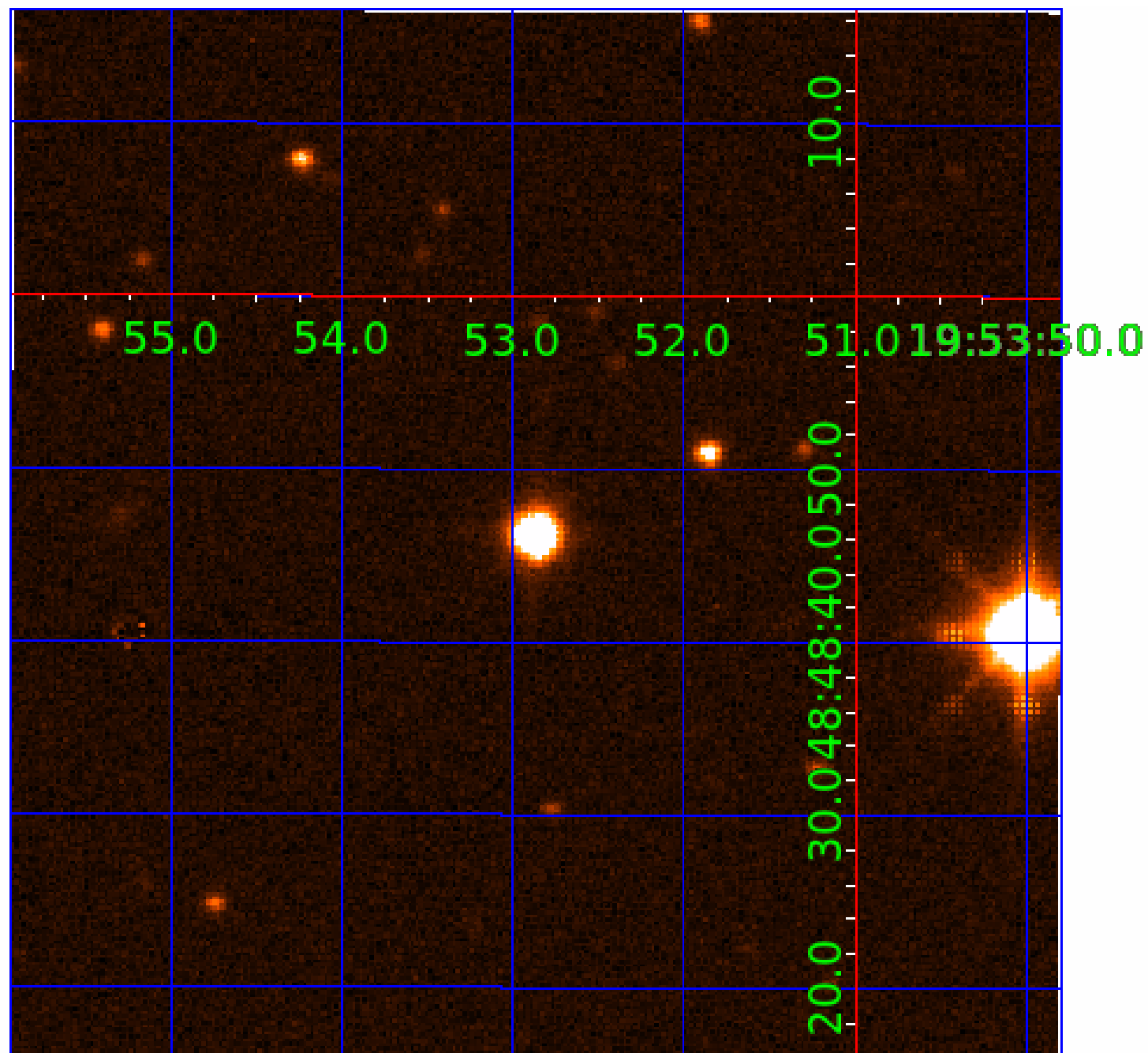


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 011206101

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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011206101-02	OBS	No	45.022865	152.666586	134.9	8.795	15.0	4.5	3.75	6675	4.85	285.67
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011206101-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
011206101-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
011206101-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_FEW_MEAS—HALO_GHOST

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

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

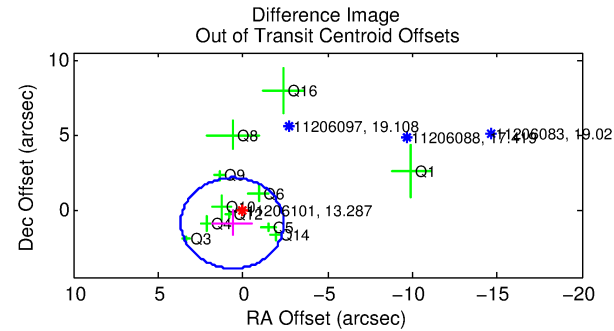
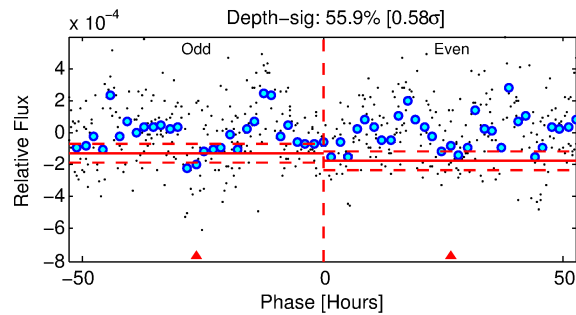
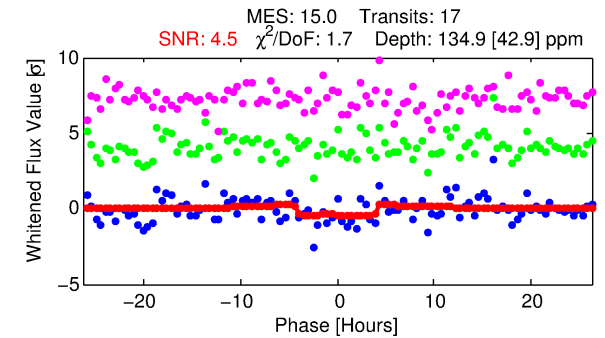
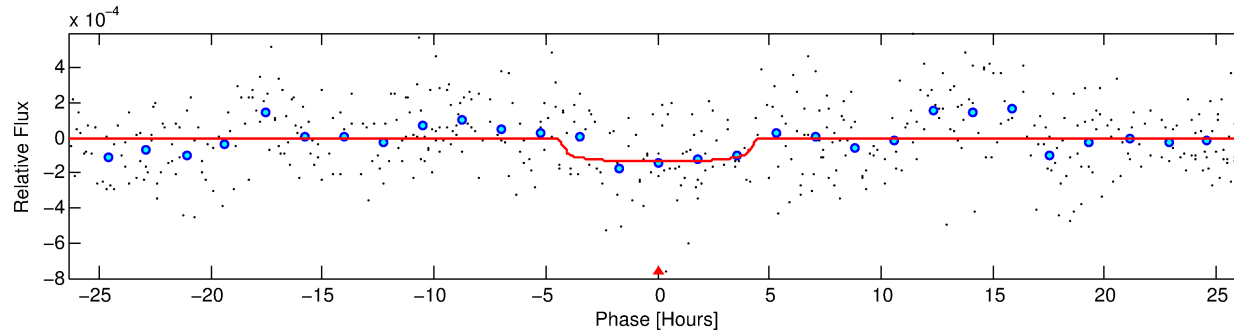
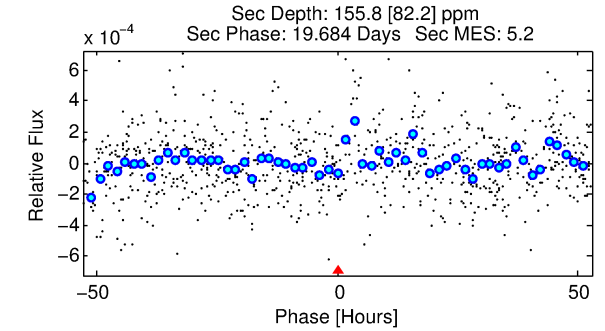
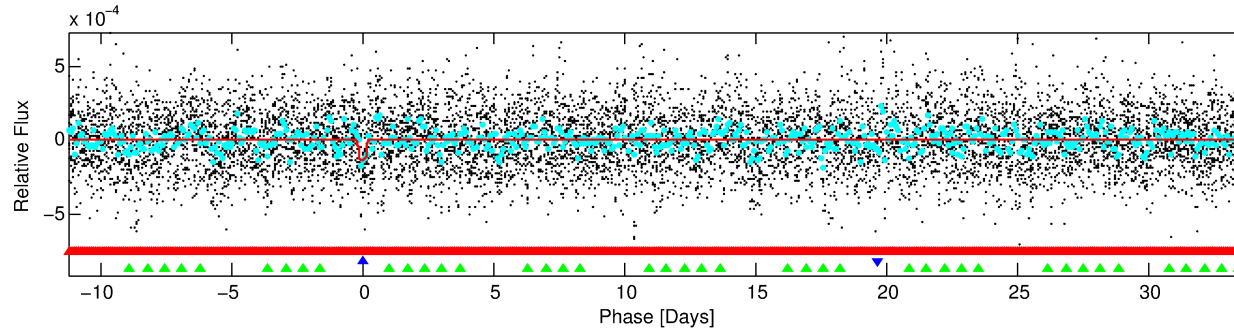
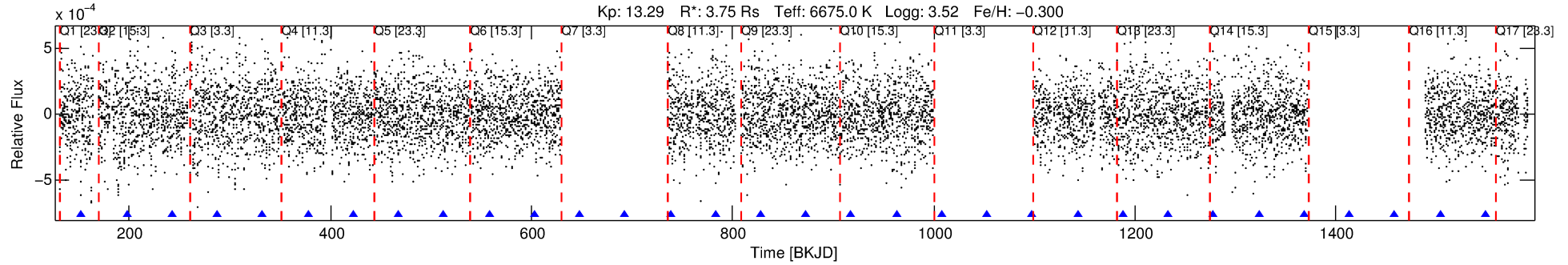
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011206101-02

No Significant Match Found

DV One-Page Summary

KIC: 11206101 Candidate: 2 of 3 Period: 45.023 d



DV Fit Results:

Period = 45.02287 [0.00162] d
Epoch = 152.6666 [0.0293] BKJD
Rp/R* = 0.0118 [0.0077]
a/R* = 23.18 [82.66]
b = 0.82 [1.43]
Seff = 285.67 [180.58]
Teq = 1048 [166] K
Rp = 4.85 [3.75] Re
a = 0.2963 [0.1160] AU
Ag = 319.51 [491.14] [0.65σ]
Teffp = 6853 [2422] K [2.39σ]

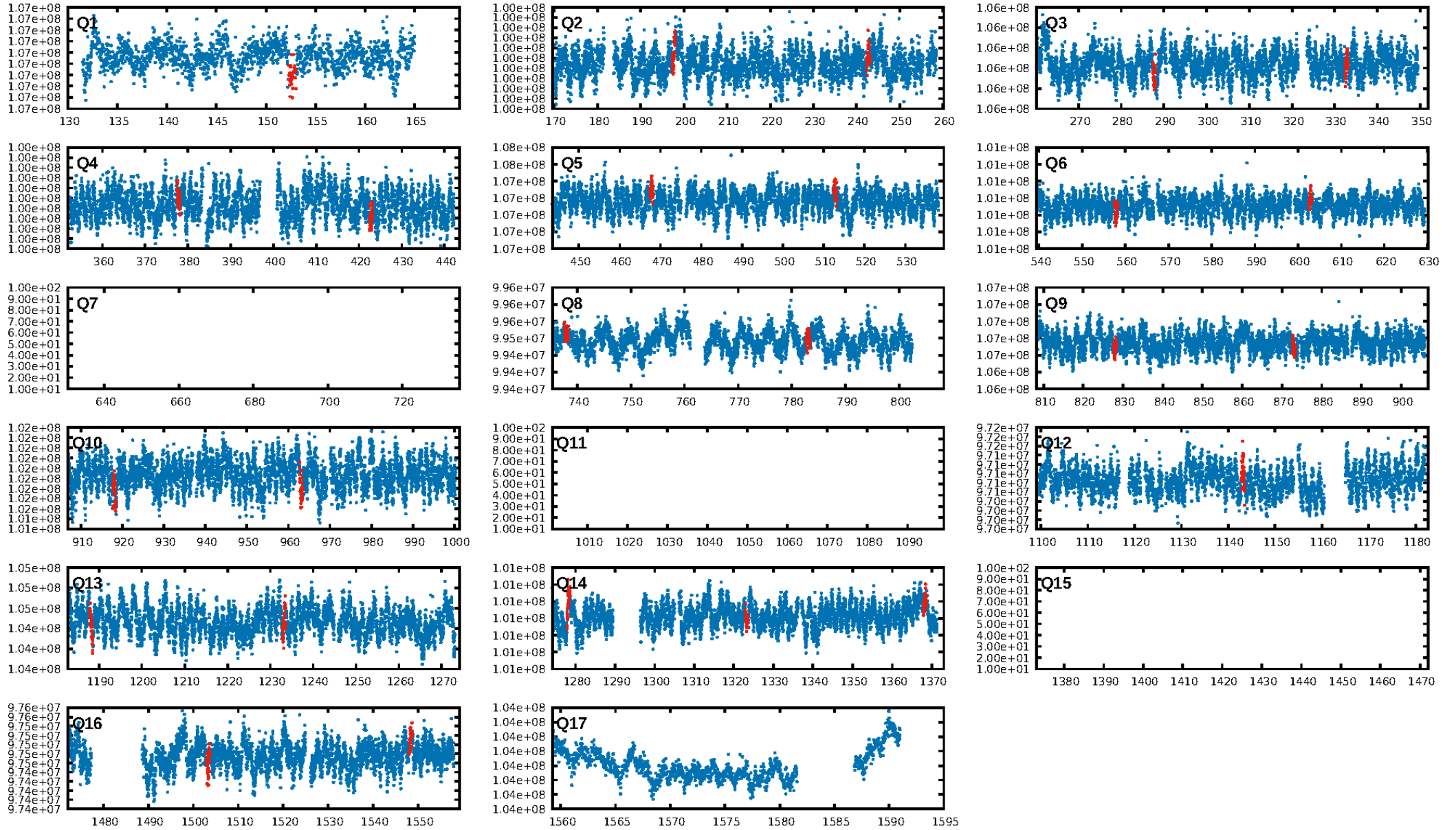
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [25.73σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 7.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.39e-36
RollingBand-fgt: 1.00 [16/16]
GhostDiagnostic-chr: 0.3292
Centroid-sig: 54.7%
Centroid-so: 0.479 arcsec [0.53σ]
OotOffset-rm: 1.093 arcsec [1.08σ]
OotOffset-st: 3/1/4/3 [11]
KicOffset-rm: 1.071 arcsec [0.98σ]
KicOffset-st: 3/1/4/3 [11]
DiffImageQuality-fgm: 0.27 [3/11]
DiffImageOverlap-fno: 0.00 [0/13]

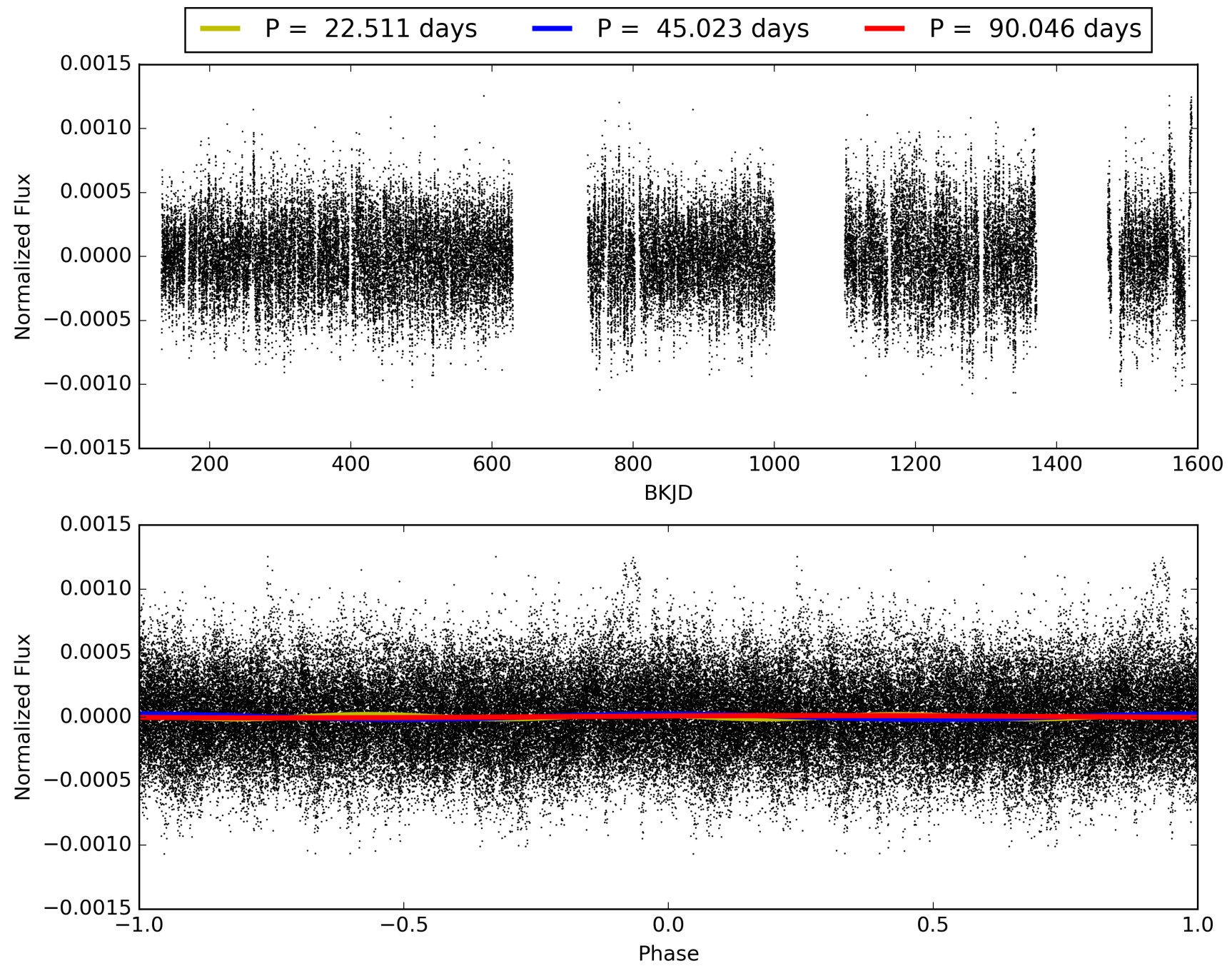
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 10:27:25 Z

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

TCE 011206101-02, PDC Light Curves

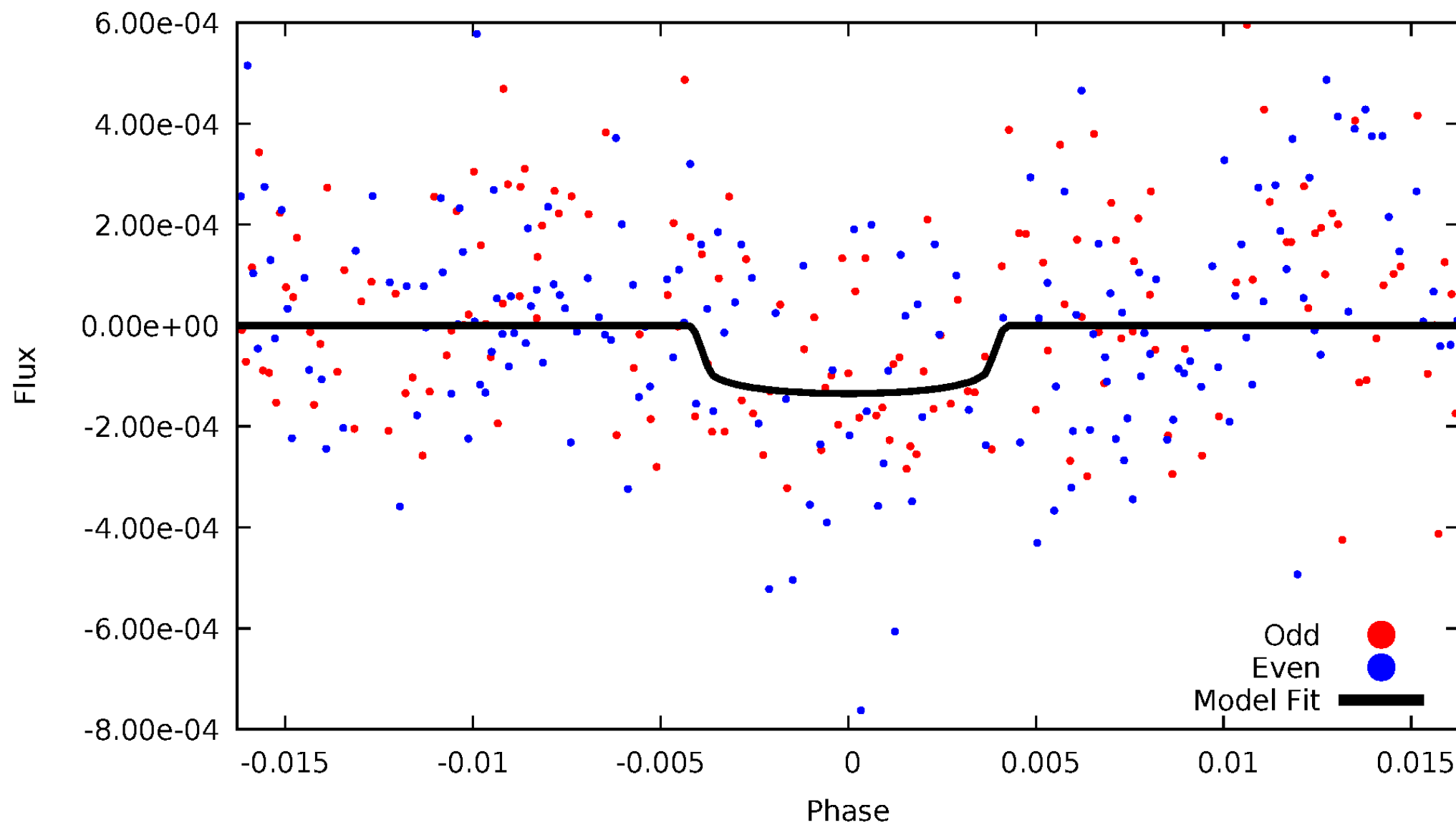


TCE 011206101-02



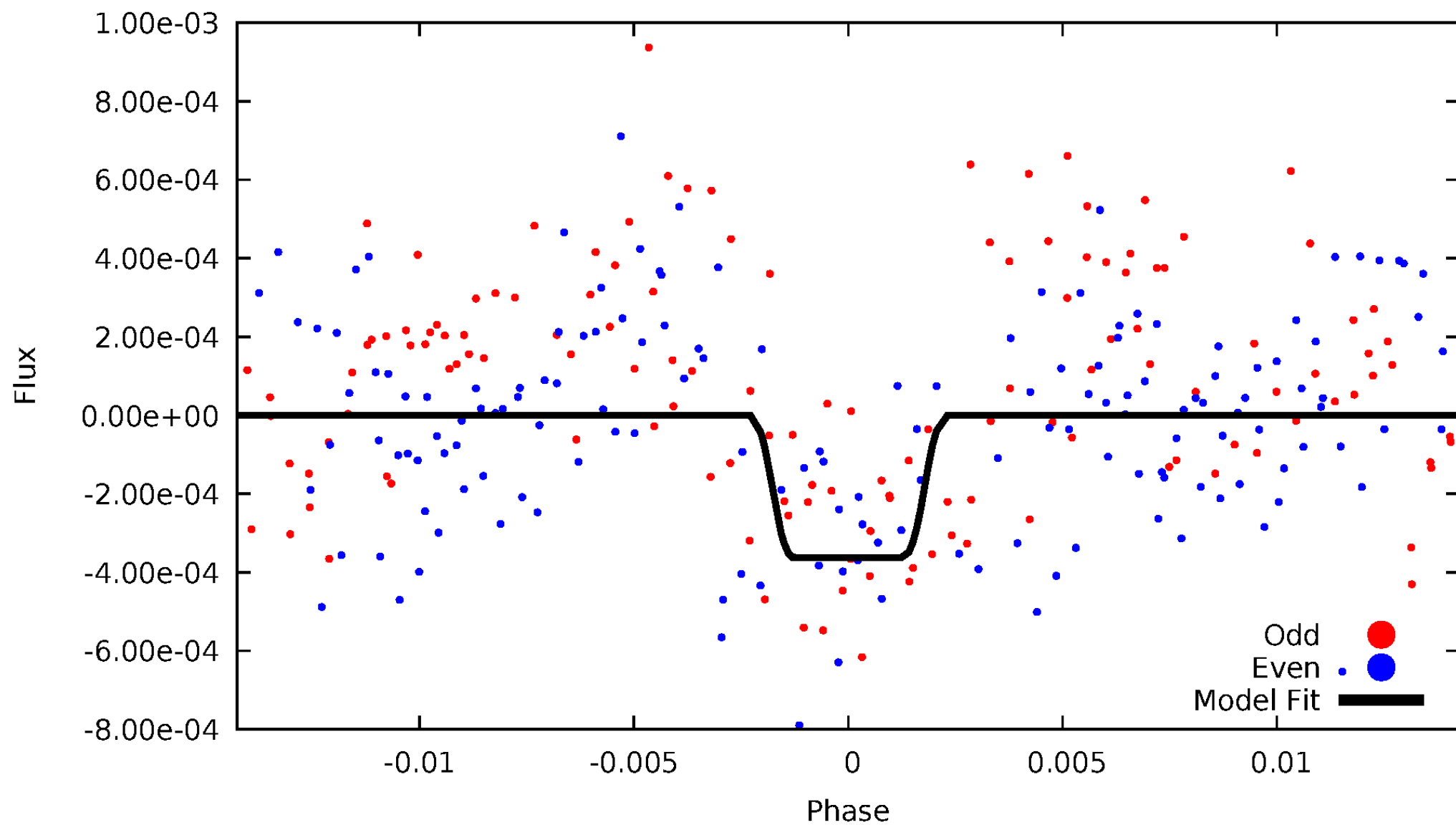
DV Odd/Even

TCE 011206101-02



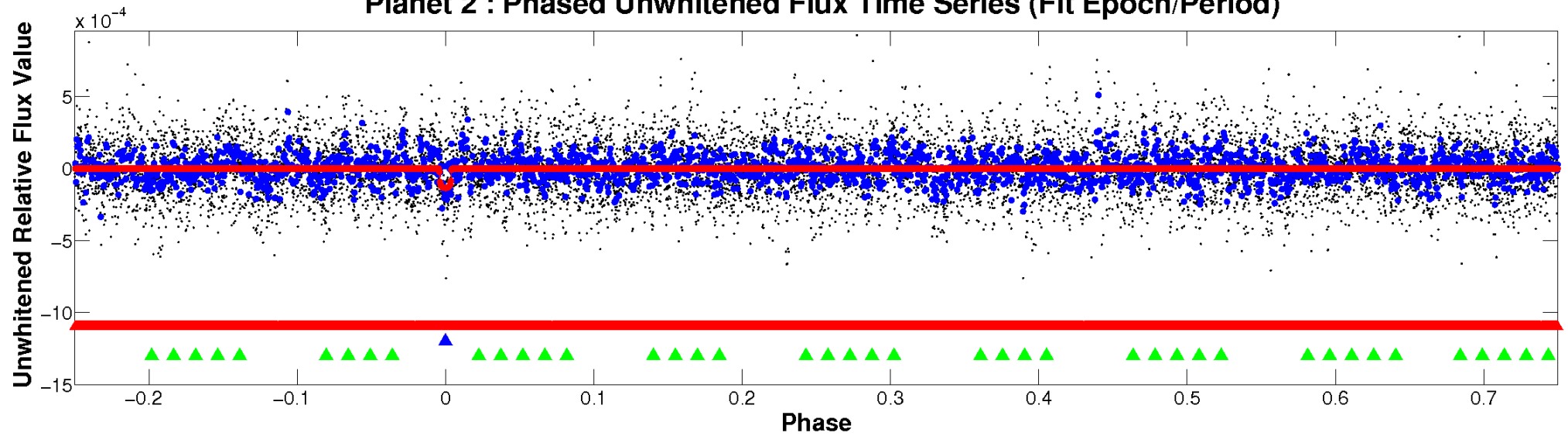
ALT Odd/Even

TCE 011206101-02

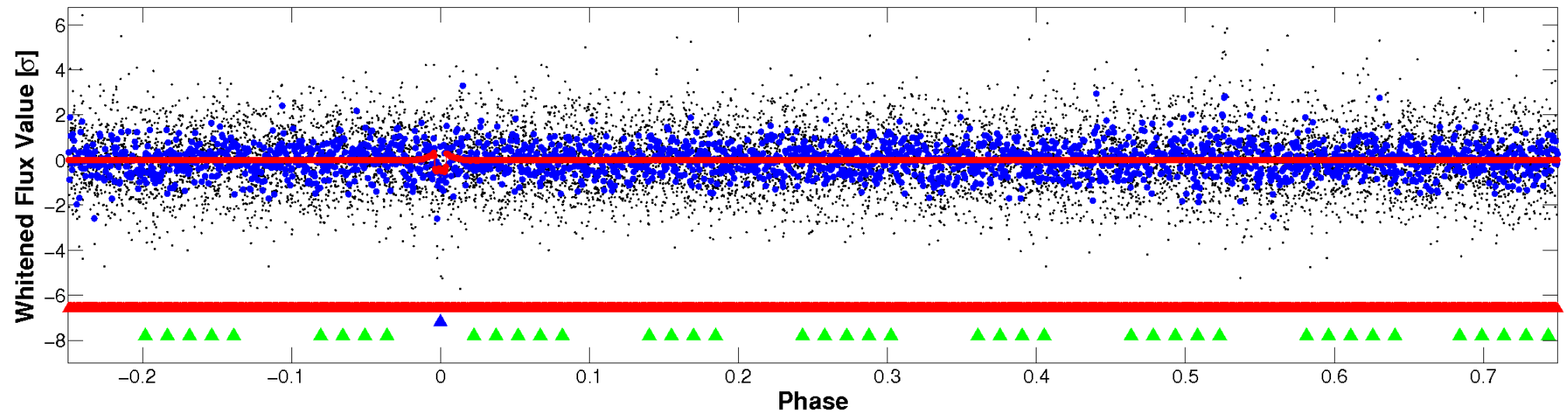


Non-Whitened Vs. Whitened Light Curve

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

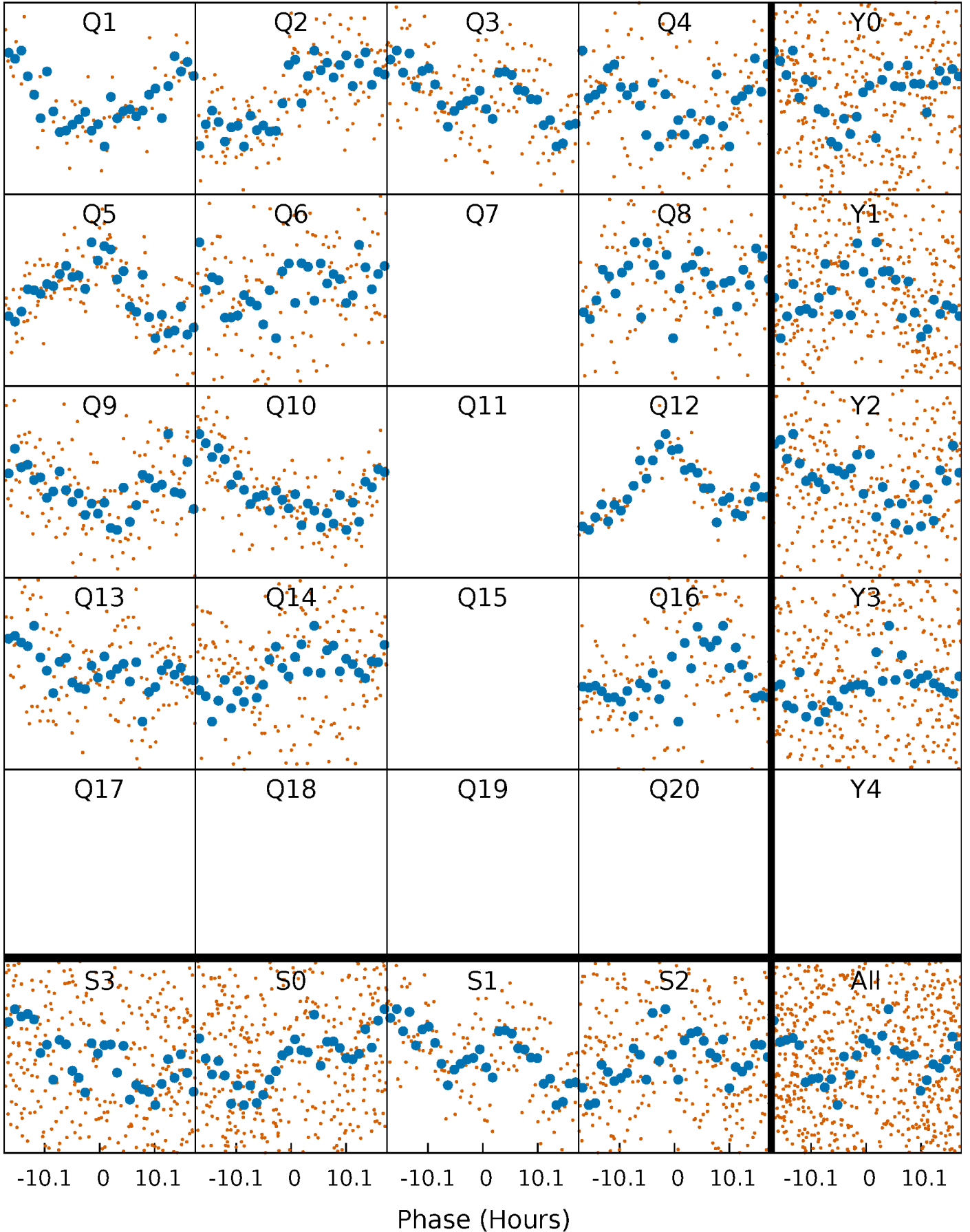


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



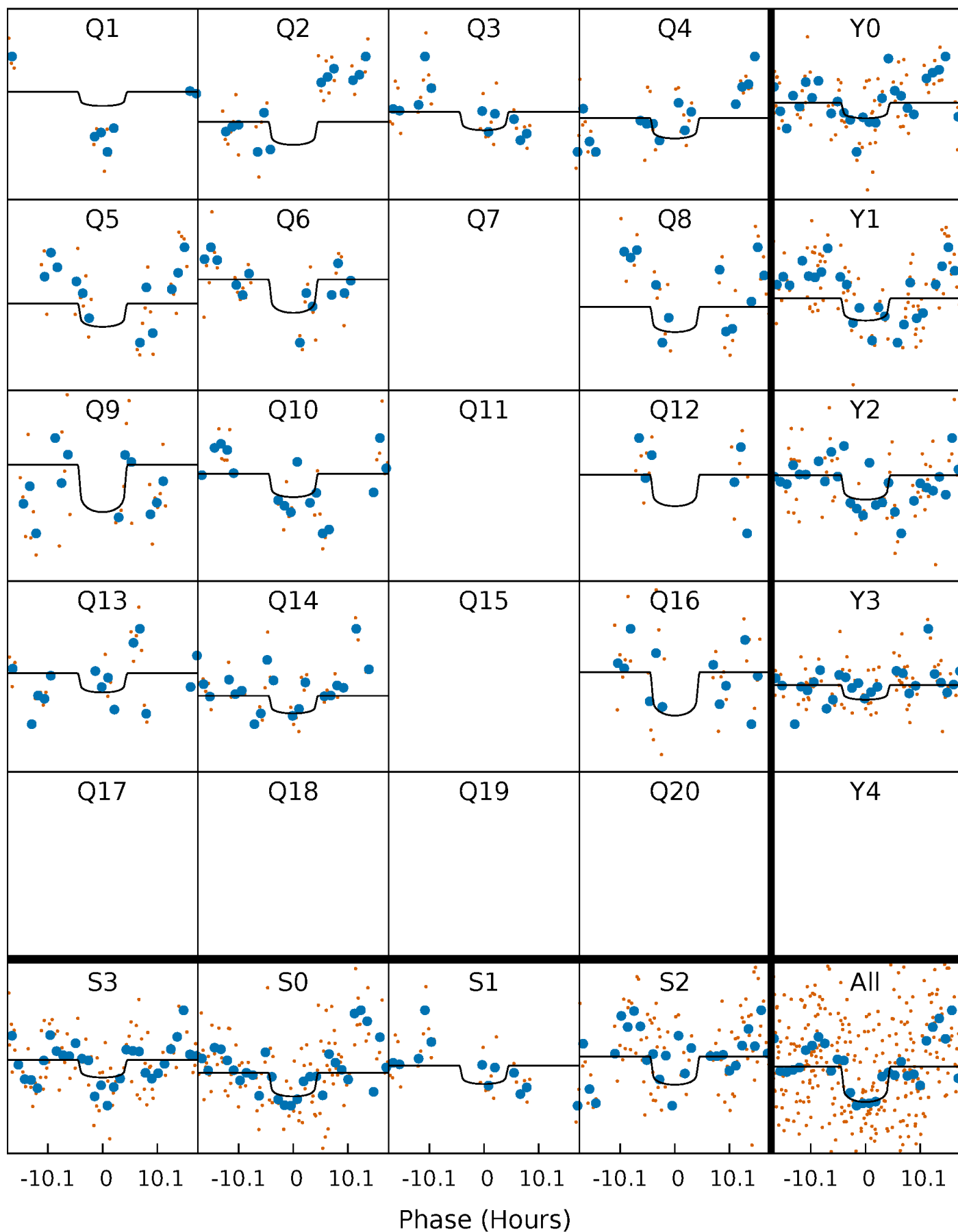
PDC Quarter-Phased Transit Curves

TCE 011206101-02 P= 45.022865 Days $T_0=152.666586$ (BKJD)



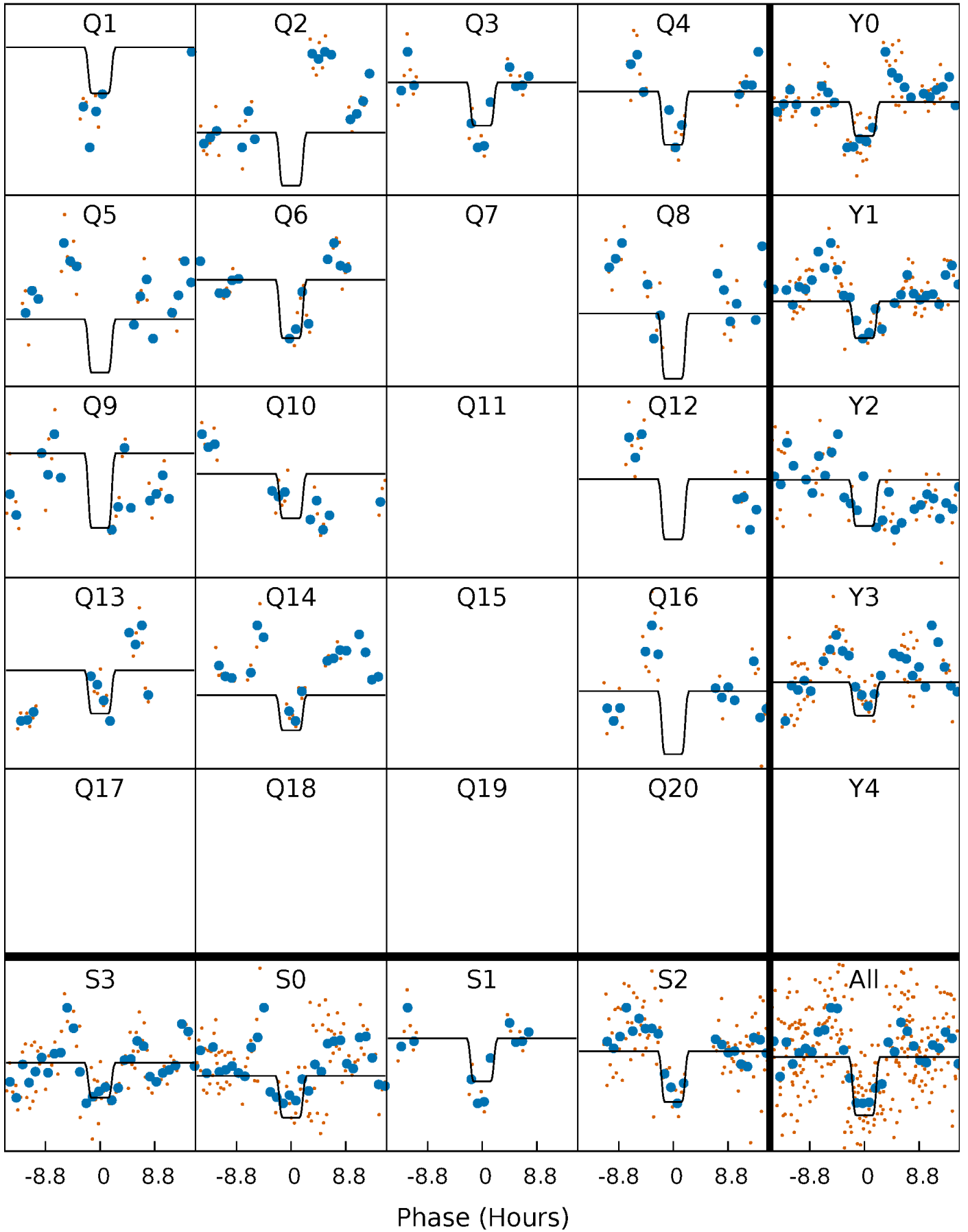
DV Quarter-Phased Transit Curves

TCE 011206101-02 P= 45.022865 Days $T_0=152.666586$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

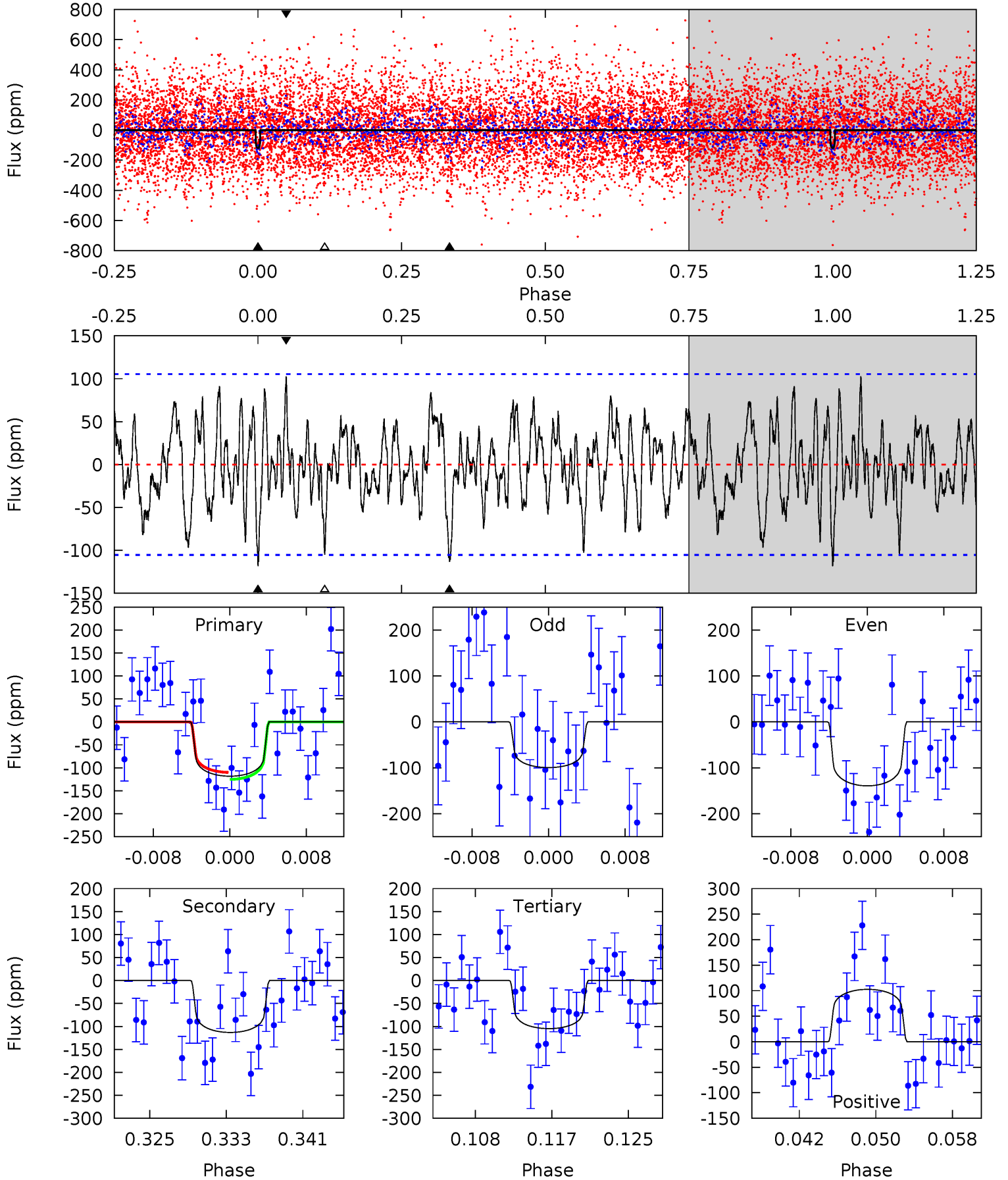
TCE 011206101-02 P= 45.020744 Days $T_0=152.733002$ (BKJD)



DV Model-Shift Uniqueness Test

011206101-02, P = 45.022865 Days, E = 107.643721 Days

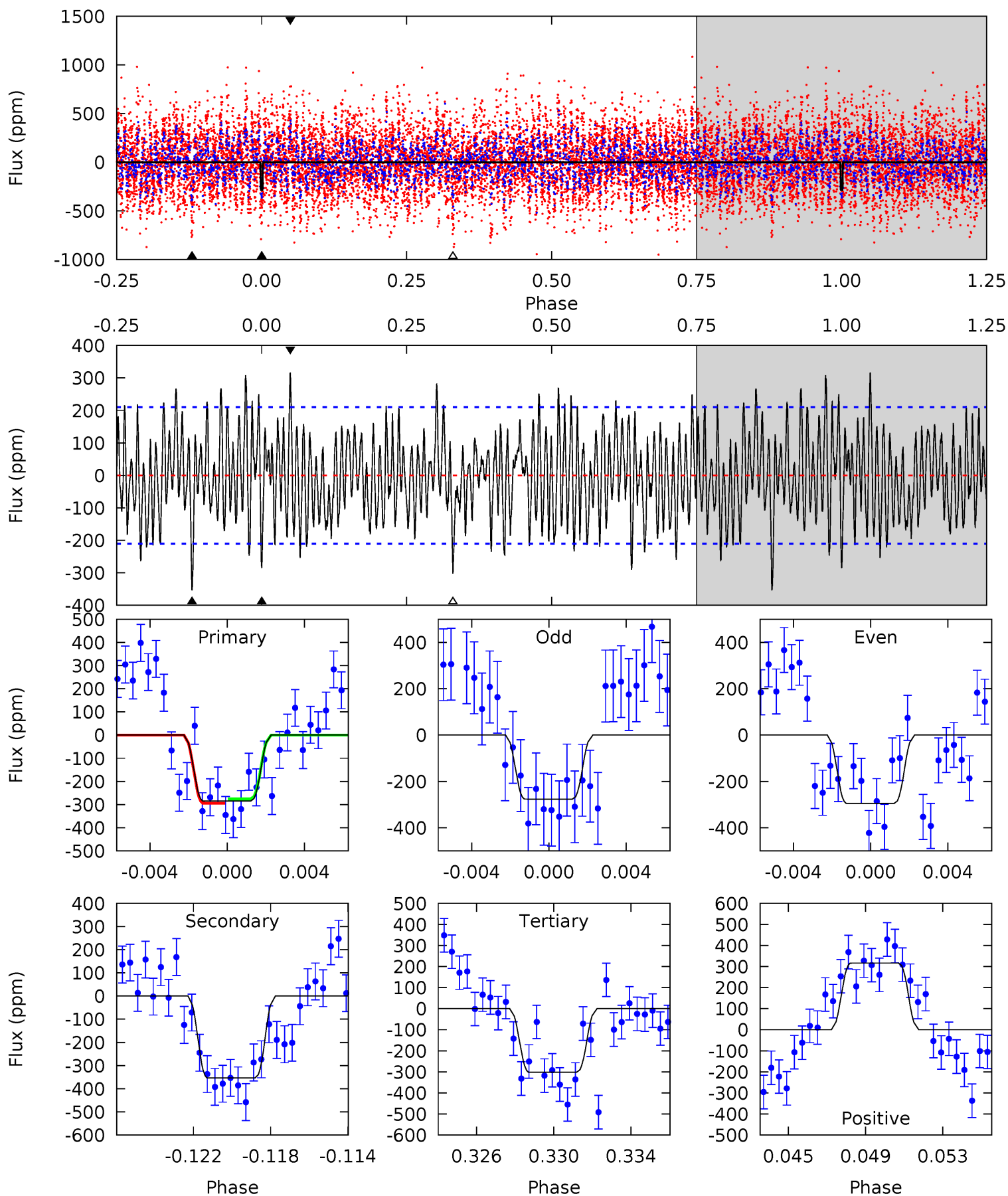
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.68	5.44	5.03	4.93	5.06	2.64	1.79	0.65	0.75	0.40	0.50	0.95	1.43	0.46	0.36



Alt Model-Shift Uniqueness Test

011206101-02, P = 45.020744 Days, E = 107.712258 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.03	8.73	7.45	7.82	5.20	2.87	2.86	-0.42	-0.78	1.28	0.92	0.23	1.11	0.47	0.23



Stellar Parameters For KIC 011206101

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6675^{+180}_{-220}	$3.522^{+0.360}_{-0.090}$	$-0.300^{+0.350}_{-0.250}$	$3.755^{+0.390}_{-1.561}$	$1.711^{+0.172}_{-0.400}$	$0.045^{+0.127}_{-0.013}$
	+3%/-3%	+10%/-3%	+117%/-83%	+10%/-42%	+10%/-23%	+279%/-28%
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 011206101-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-113 ± 21	$4.70^{+3.31}_{-2.52}$	1439^{+83}_{-146}	6117^{+3266}_{-1249}	241^{+937}_{-157}
Alt.	-354 ± 41	$7.14^{+3.64}_{-2.74}$	1441^{+80}_{-135}	6632^{+2097}_{-1052}	332^{+553}_{-184}

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 $A_{obs} \gg 1.0$

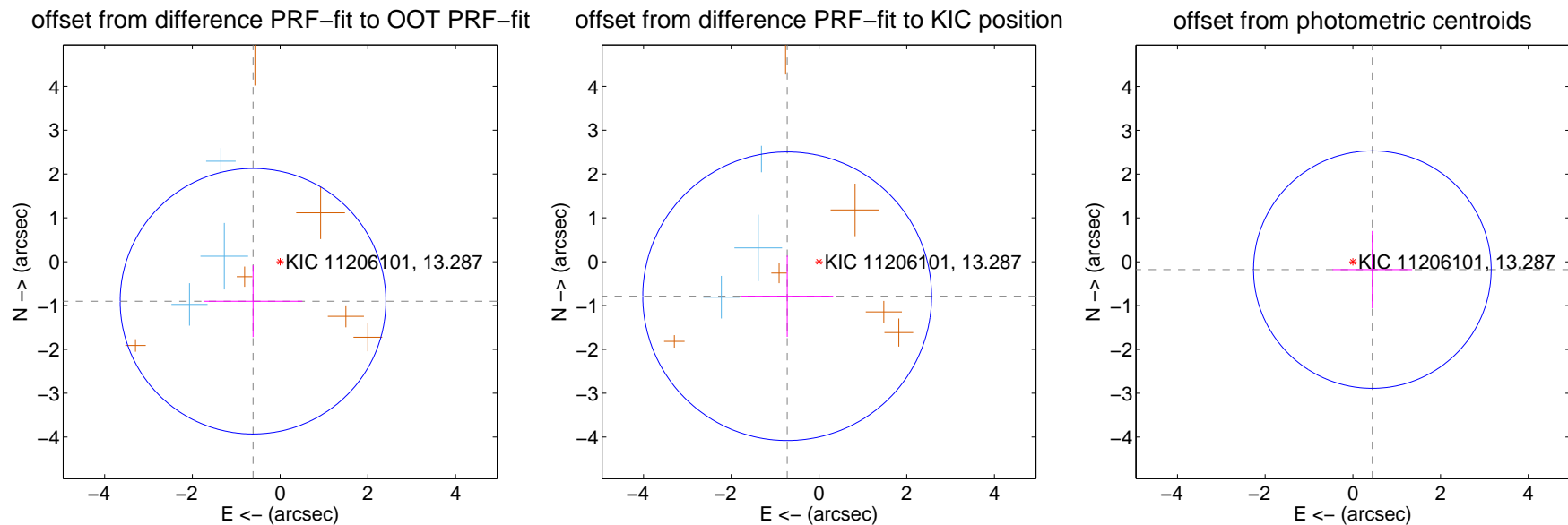
DV Centroid Data

Supplemental centroid analysis for 011206101-02. Kepler magnitude: 13.29. Transit SNR 4.50

There are 3 quarters with good PRF difference image offsets

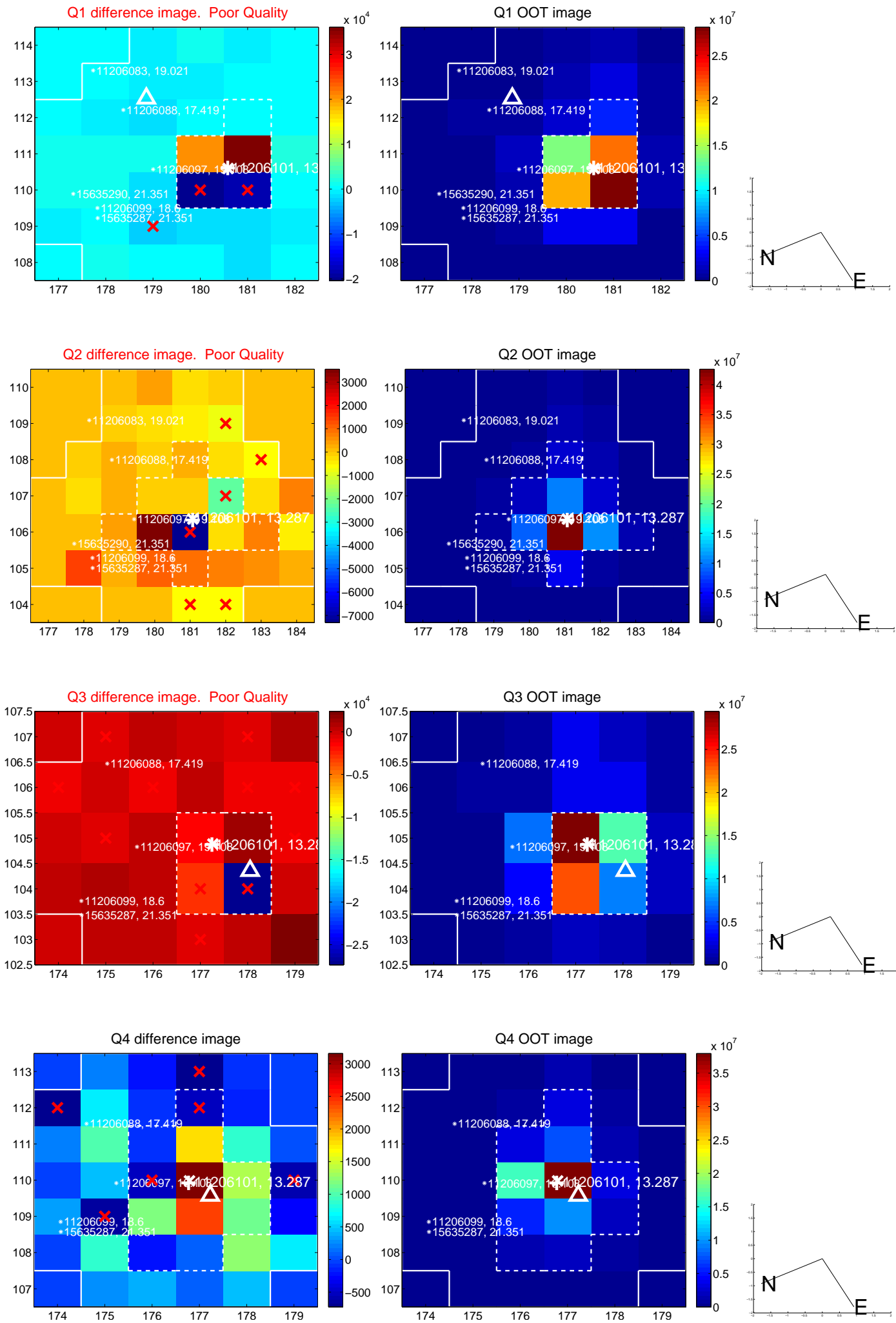
The direct PRF centroid is offset from the target star catalog position by about 0.27 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.093 ± 1.010	1.08	0.618 ± 1.124	-0.902 ± 0.819
PRF-fit source offset from KIC position	1.071 ± 1.098	0.98	0.725 ± 1.049	-0.788 ± 0.928
photometric centroid source offset	0.48 ± 0.90	0.53	-0.44 ± 0.91	-0.18 ± 0.88

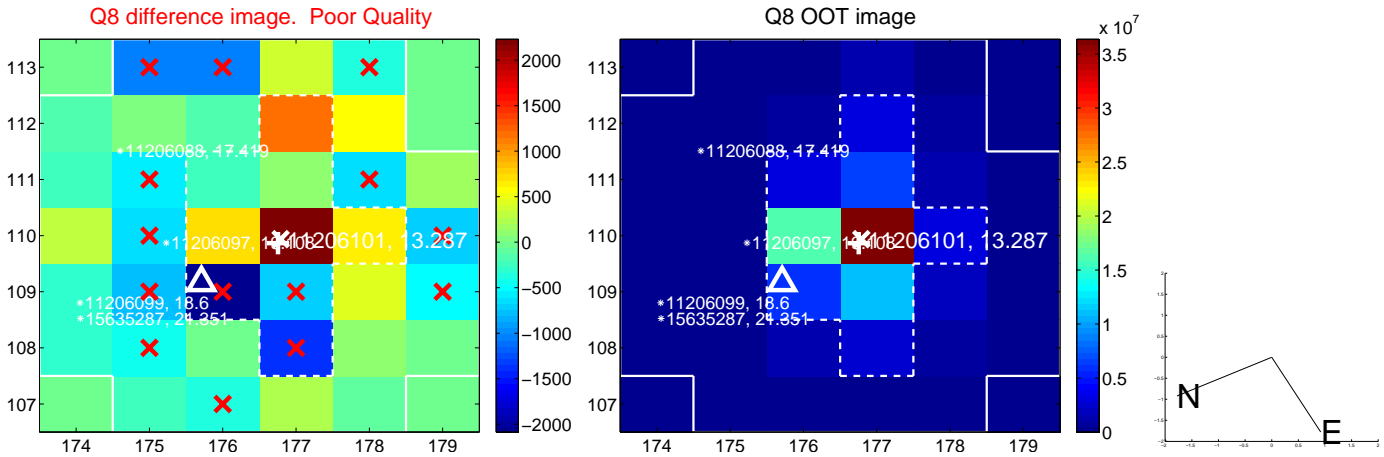
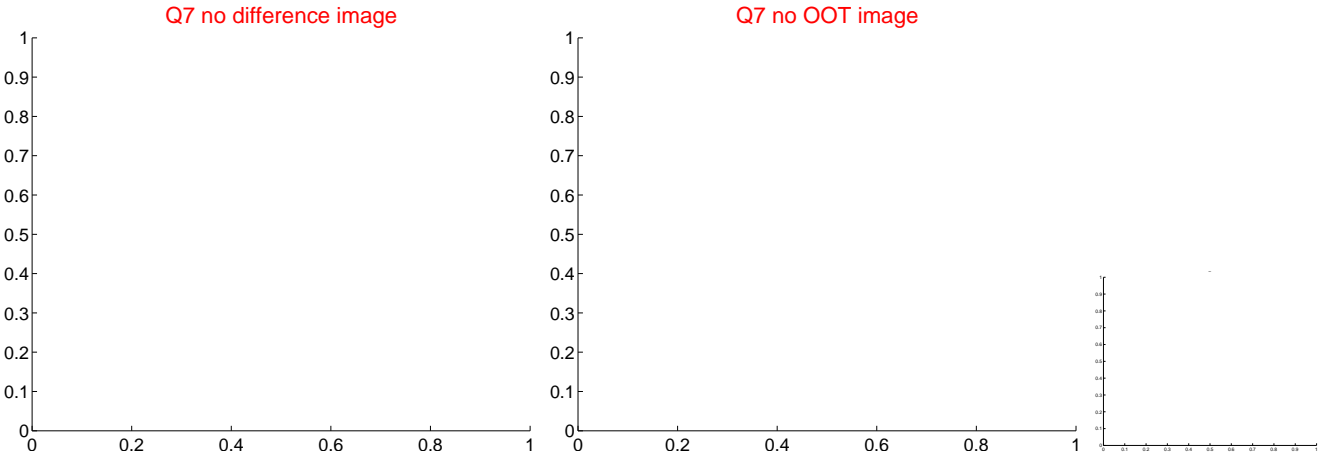
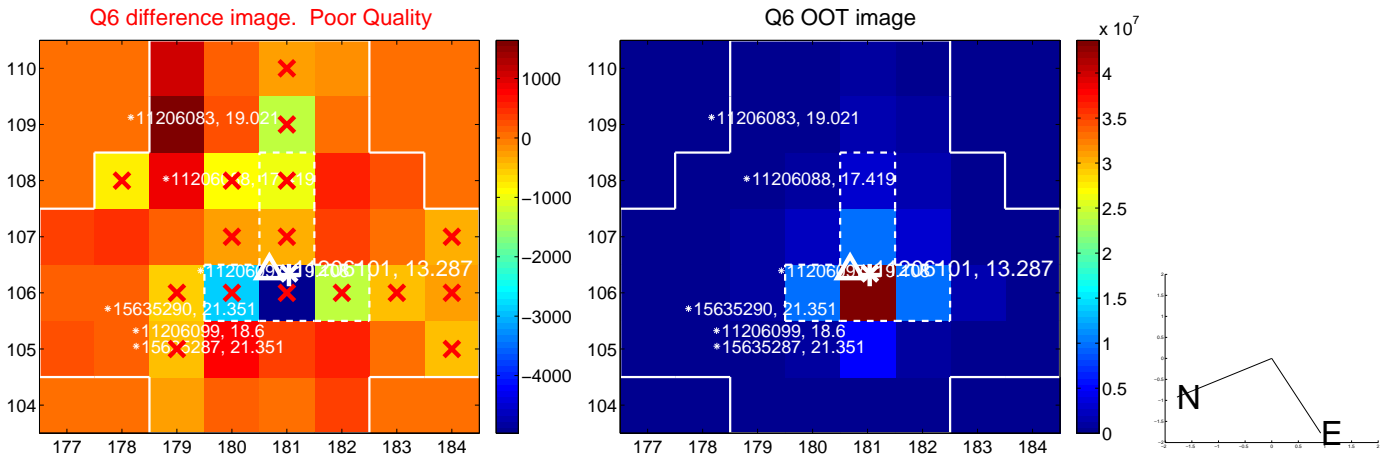
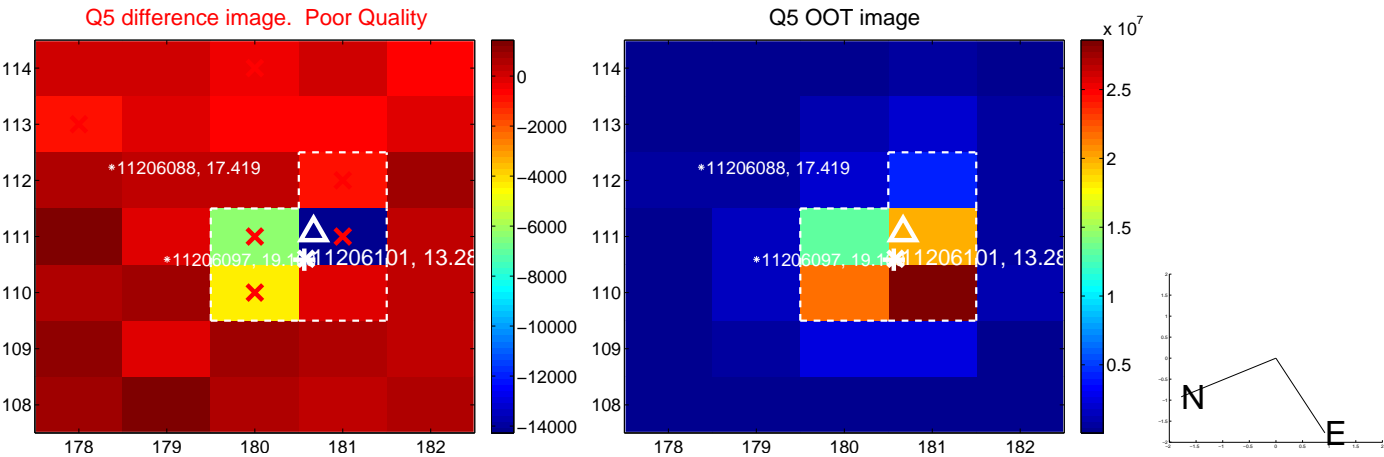


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

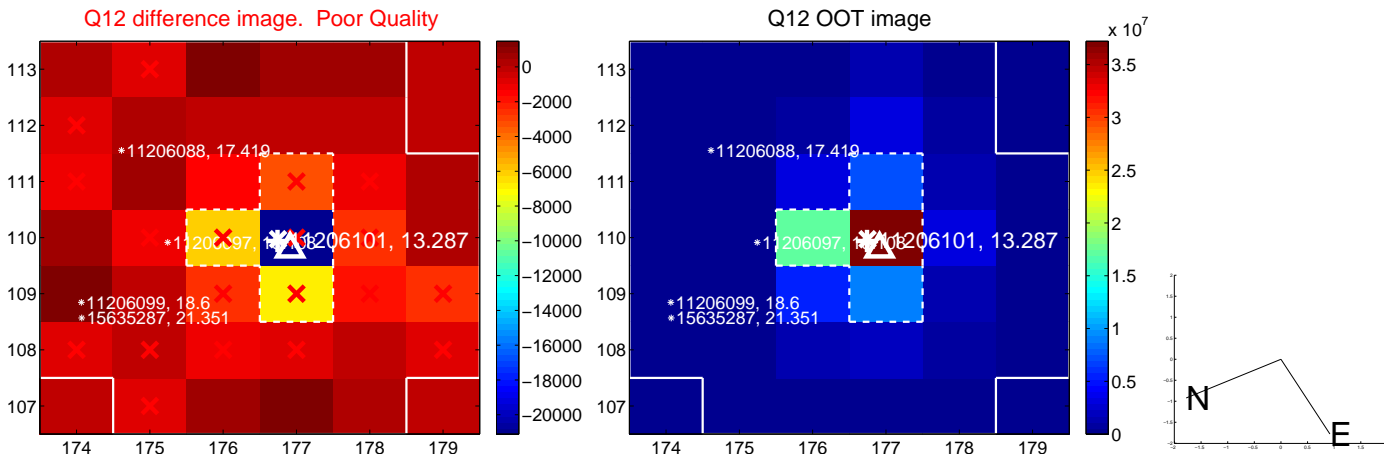
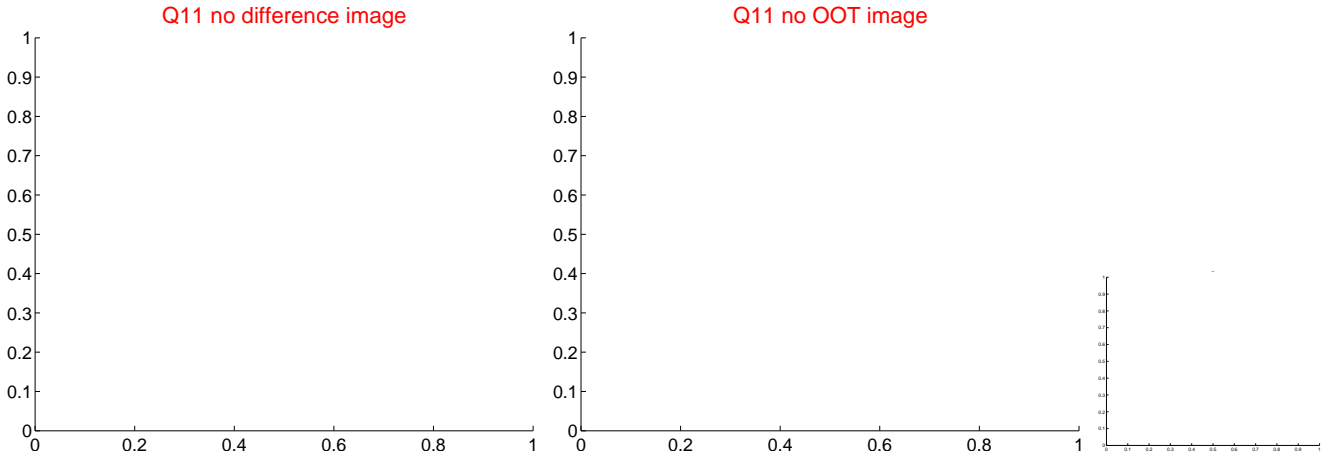
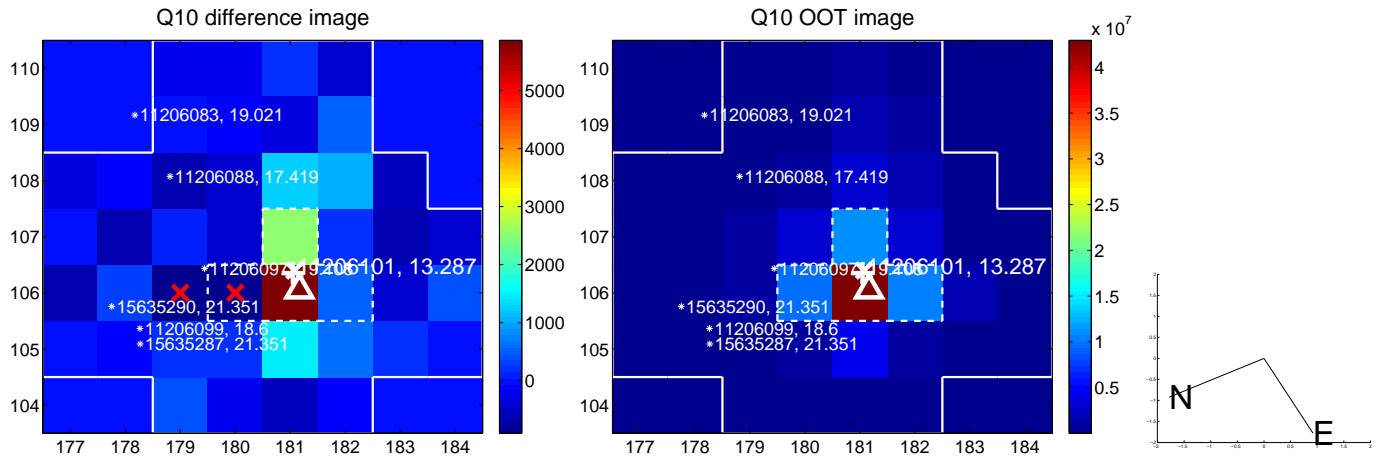
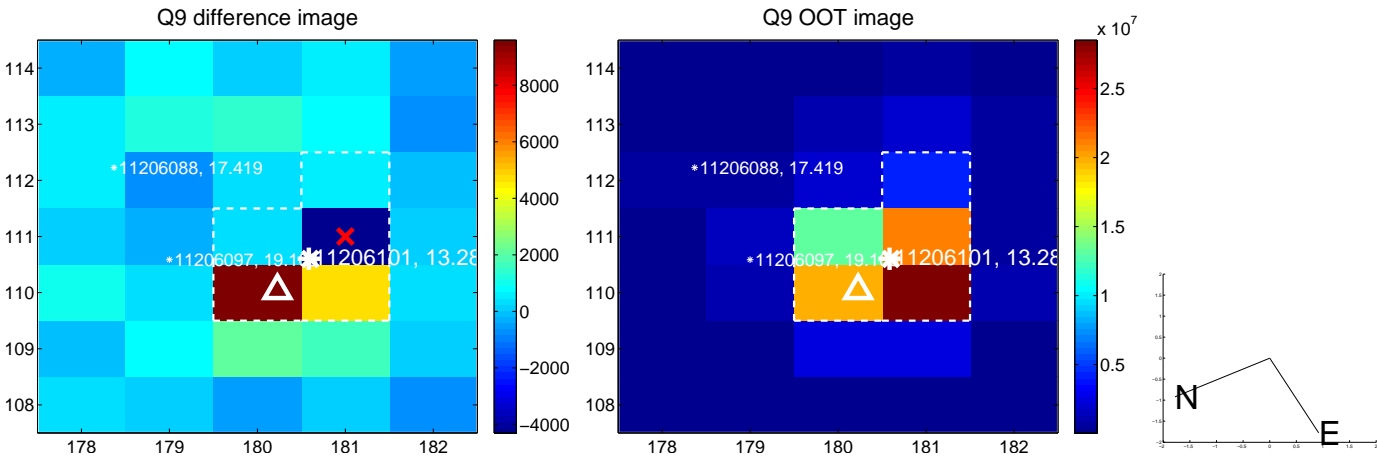
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



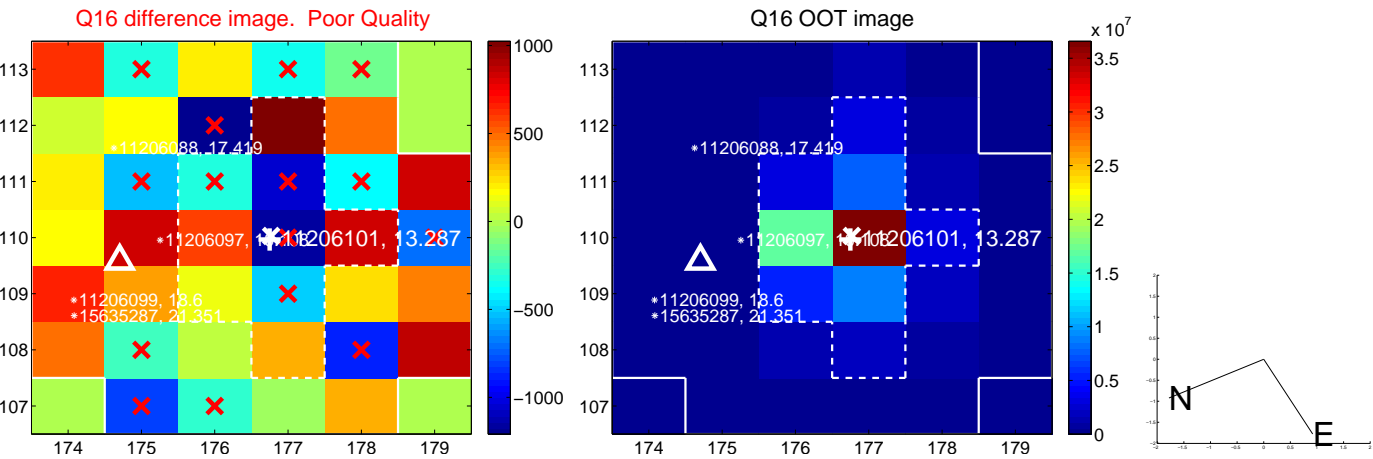
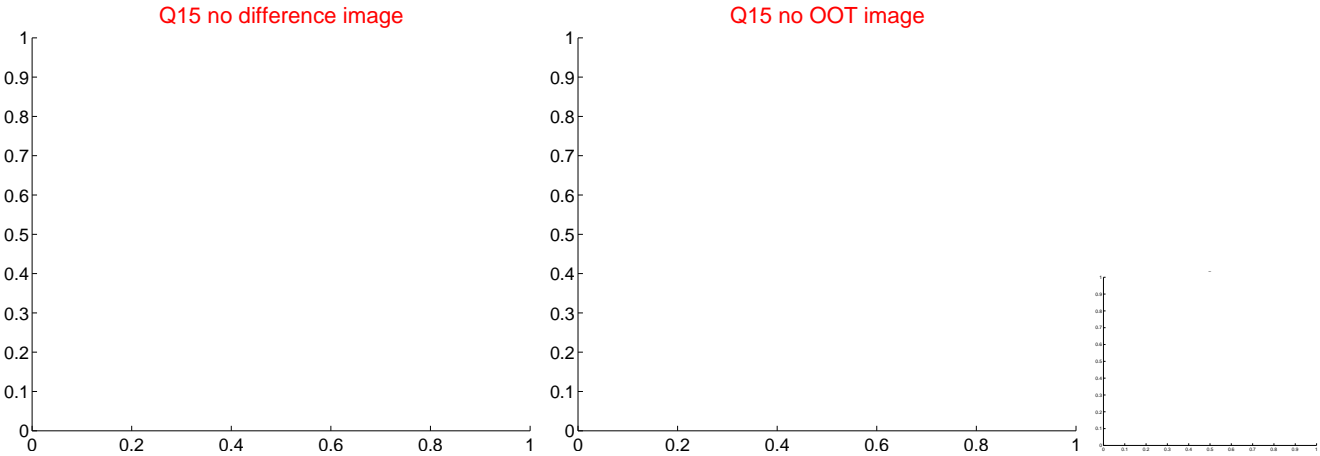
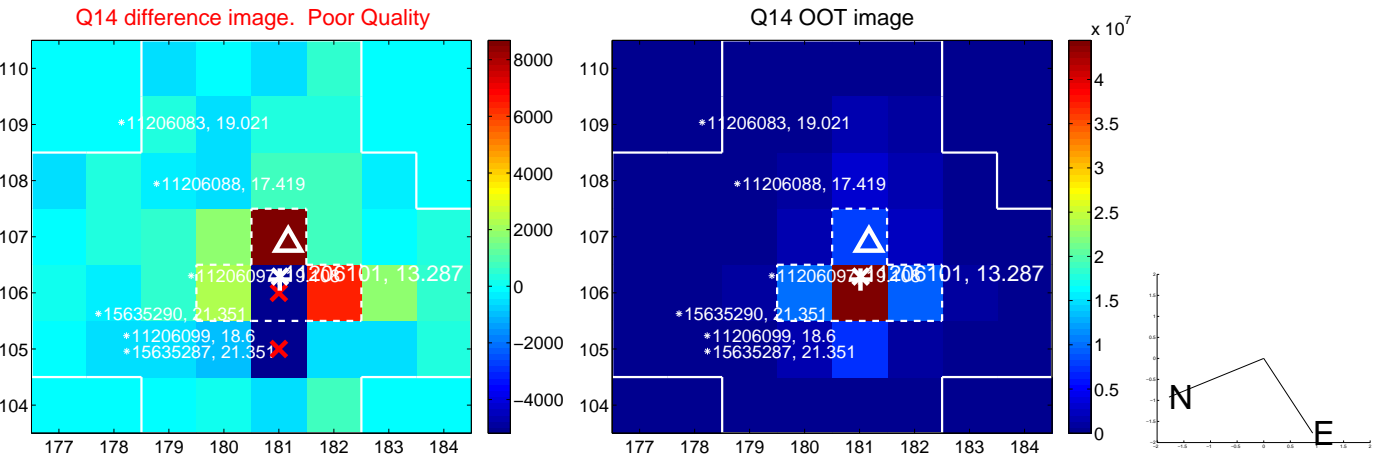
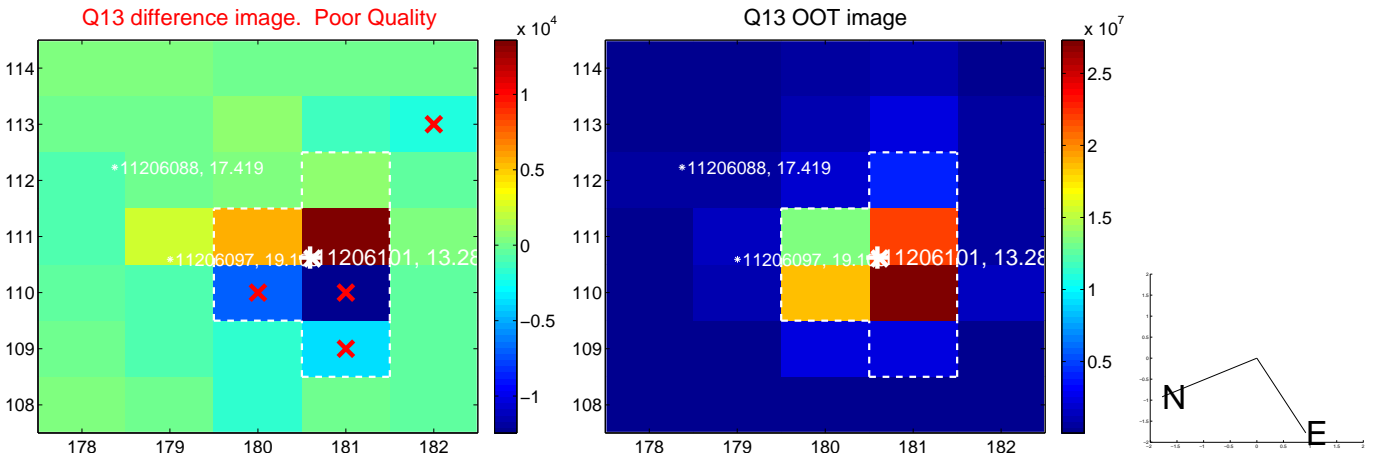
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



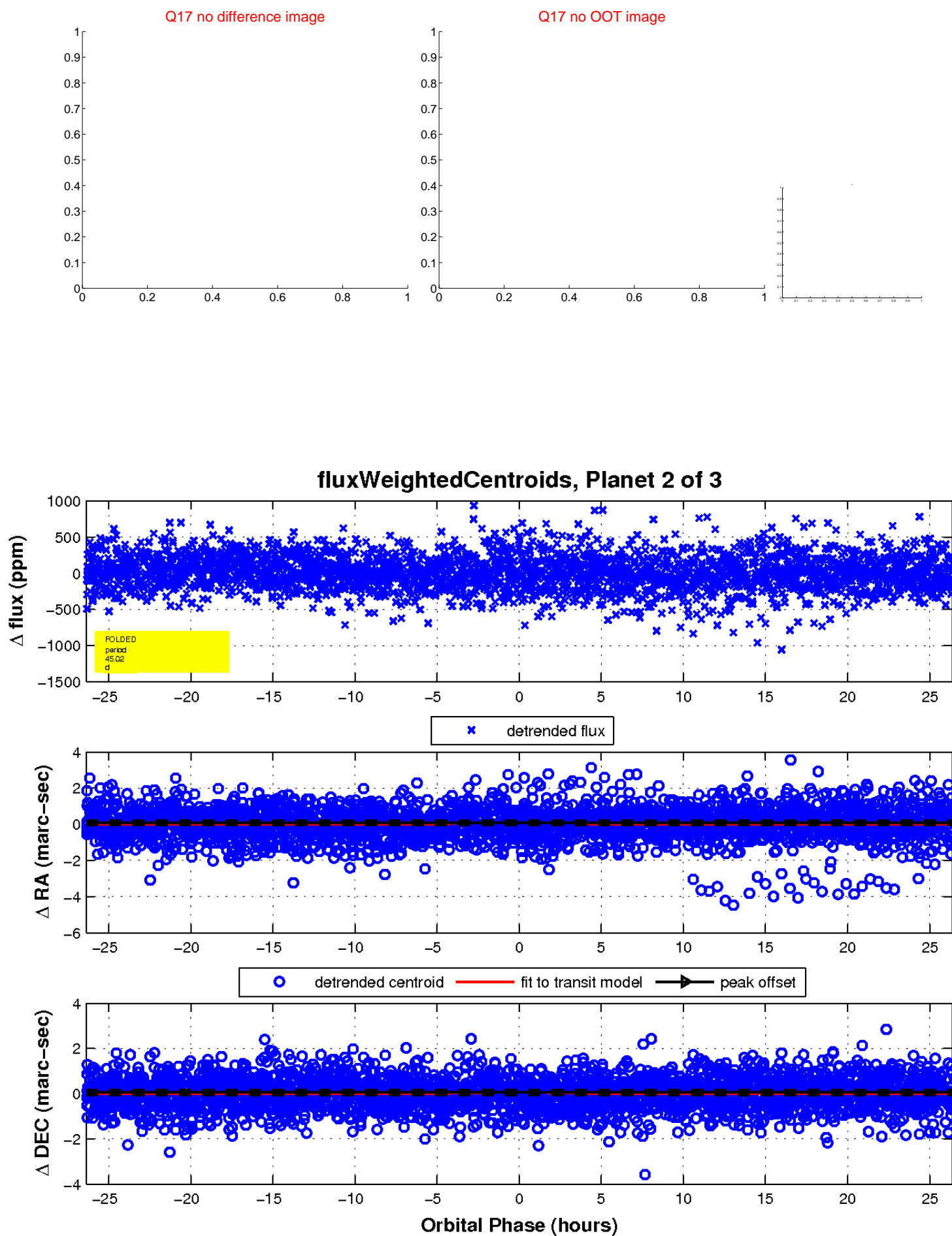
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

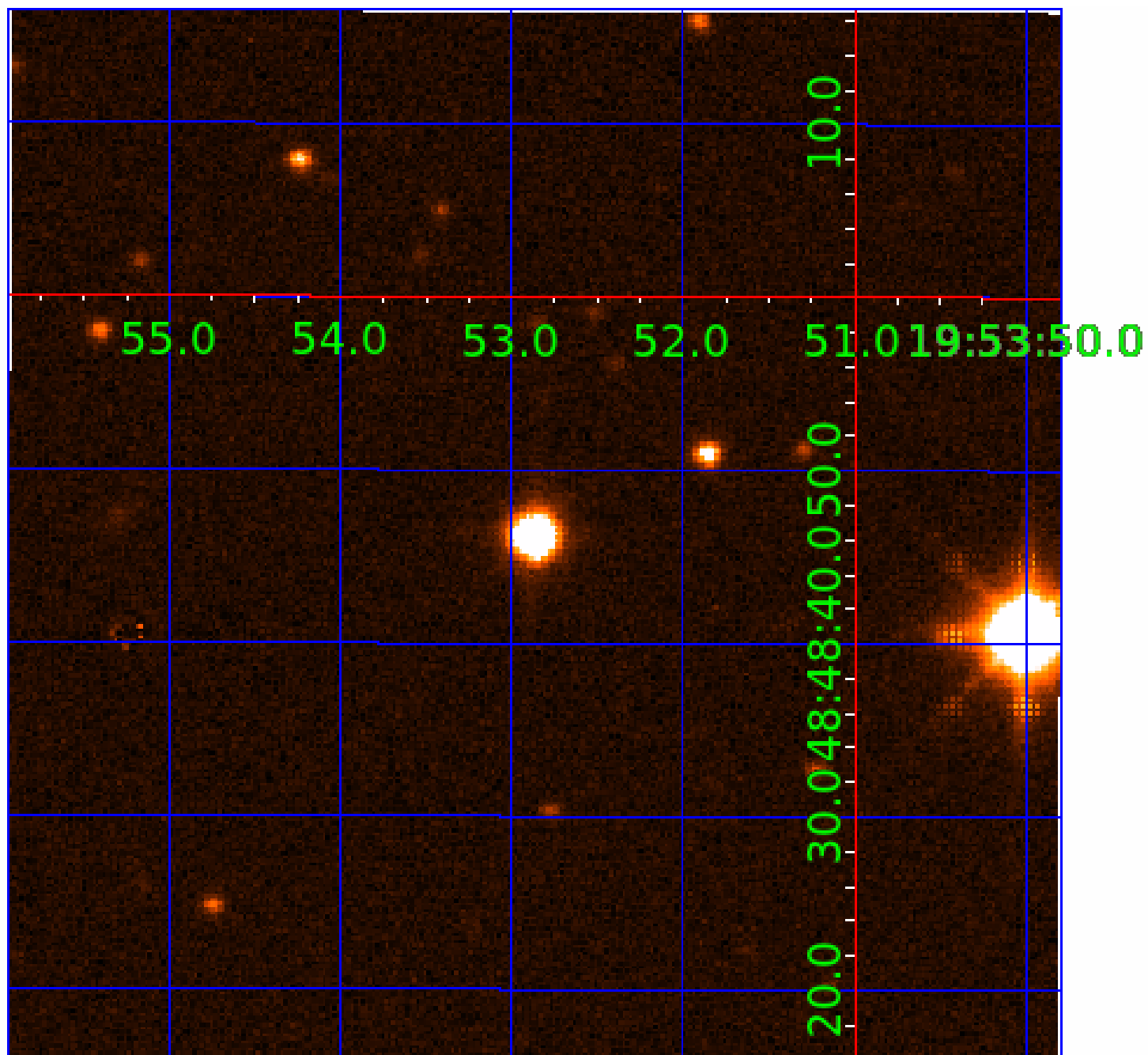


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011206101

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})
011206101-01	OBS	No	0.742320	132.256768	13.9	4.615	10.0	6.3	3.75	6675	1.63	68074.53
011206101-02	OBS	No	45.022865	152.666586	134.9	8.795	15.0	4.5	3.75	6675	4.85	285.67
011206101-03	OBS	No	35.092038	138.447914	252.3	2.909	7.3	9.1	3.75	6675	6.31	398.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011206101-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV
011206101-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
011206101-03	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_FEW_MEAS—HALO_GHOST

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

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

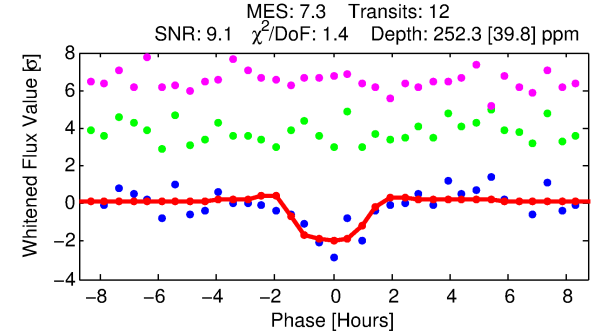
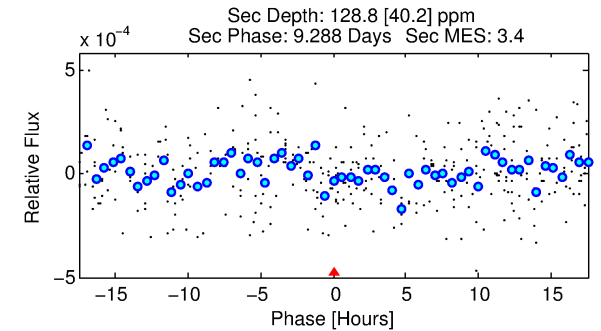
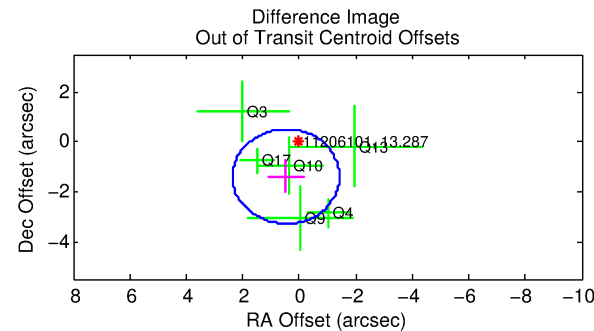
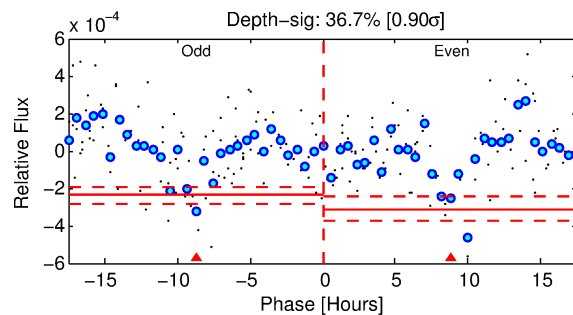
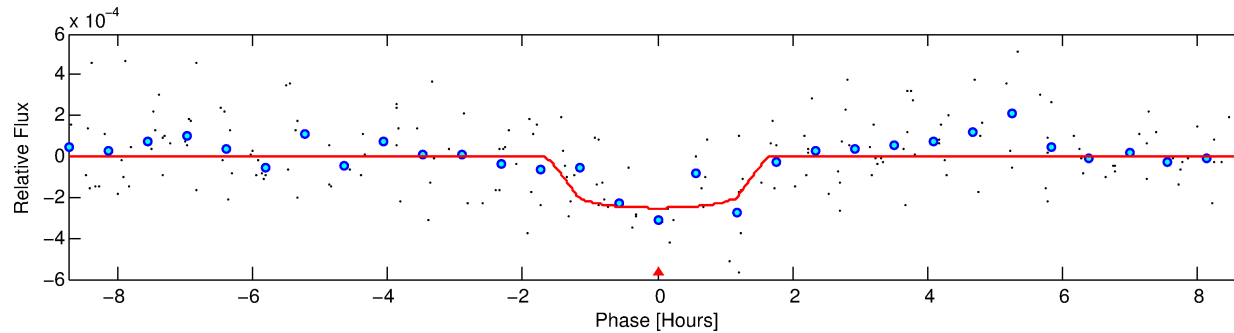
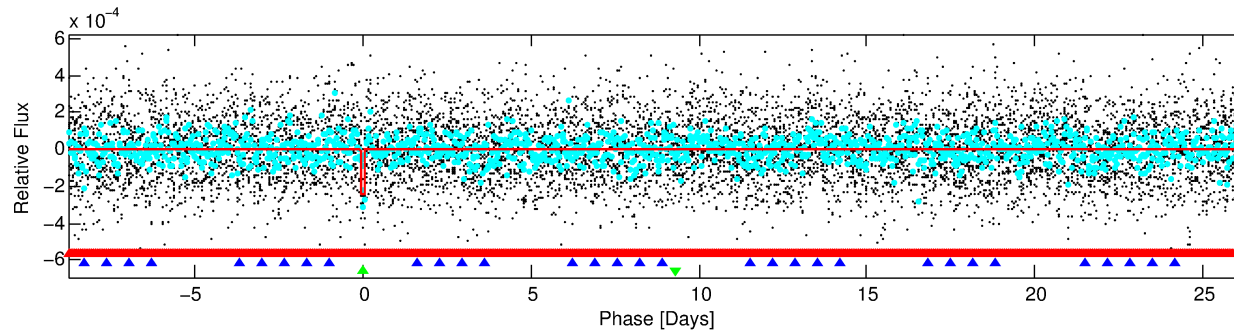
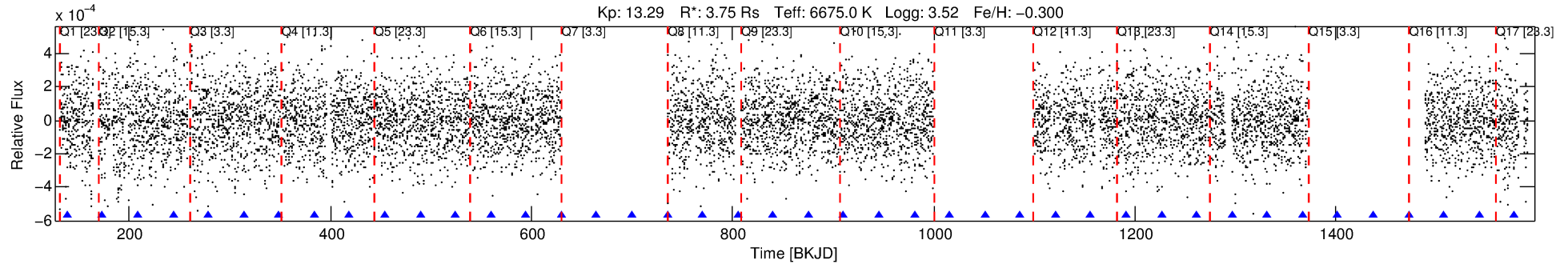
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011206101-03

No Significant Match Found

DV One-Page Summary

KIC: 11206101 Candidate: 3 of 3 Period: 35.092 d



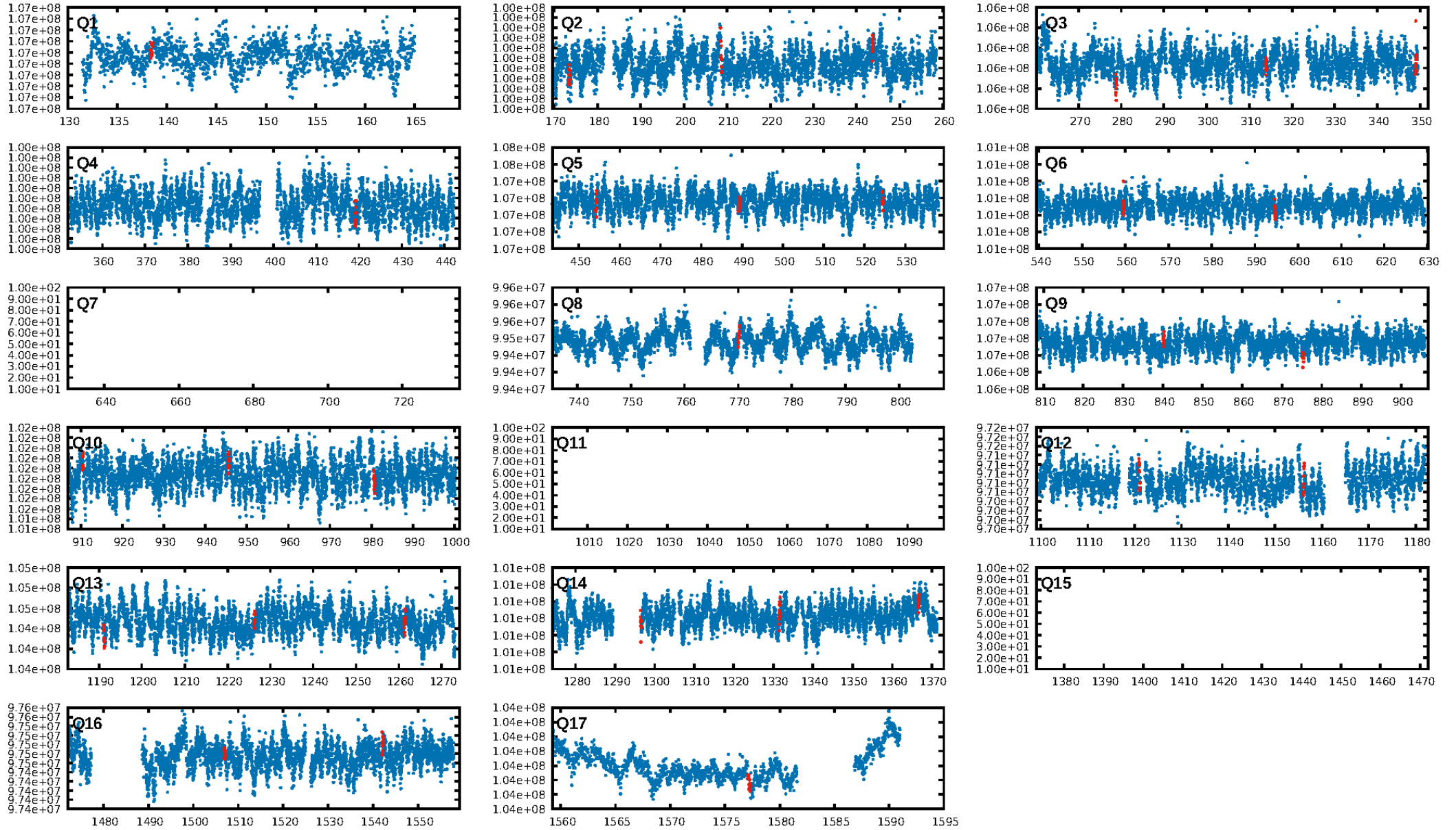
DV Fit Results:

Period = 35.09204 [0.00034] d
Epoch = 138.4479 [0.0075] BKJD
Rp/R* = 0.0154 [0.0521]
a/R* = 72.66 [1389.86]
b = 0.64 [17.81]
Seff = 398.26 [251.75]
Teq = 1139 [180] K
Rp = 6.31 [21.49] Re
a = 0.2509 [0.0982] AU
Ag = 112.09 [761.91] [0.15 σ]
Teffp = 5731 [9699] K [0.47 σ]

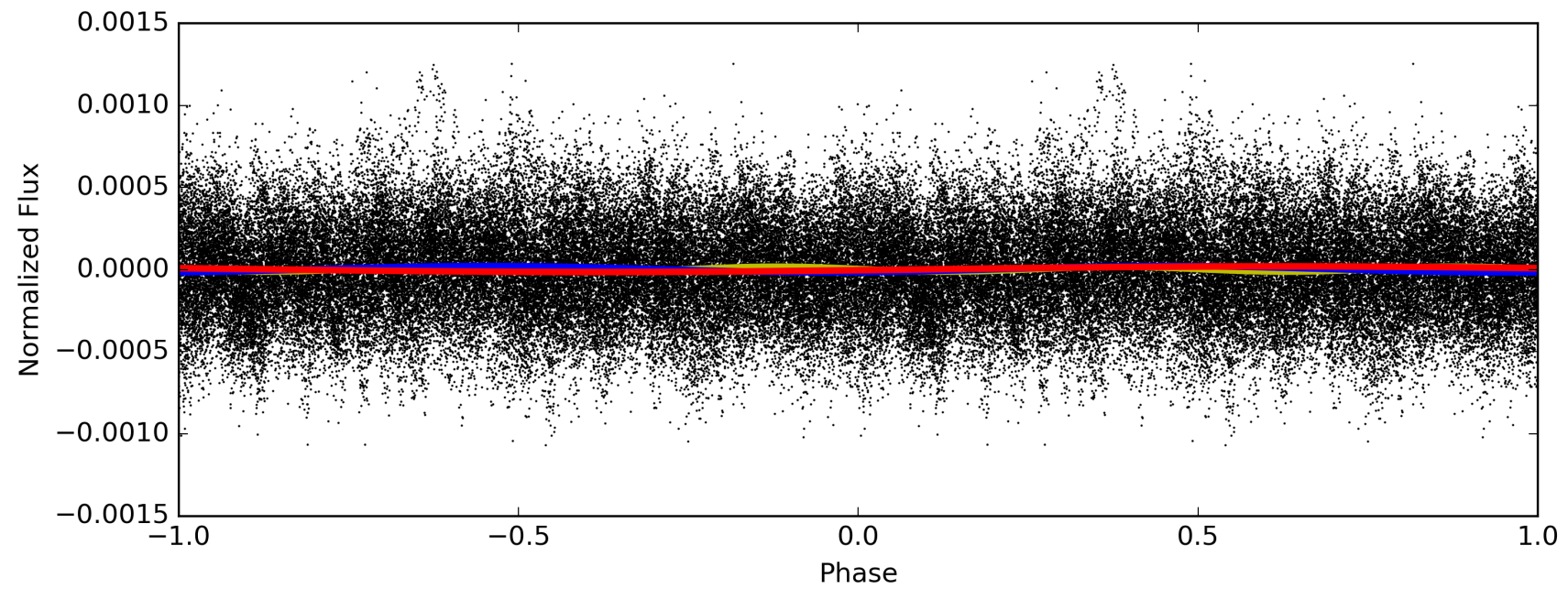
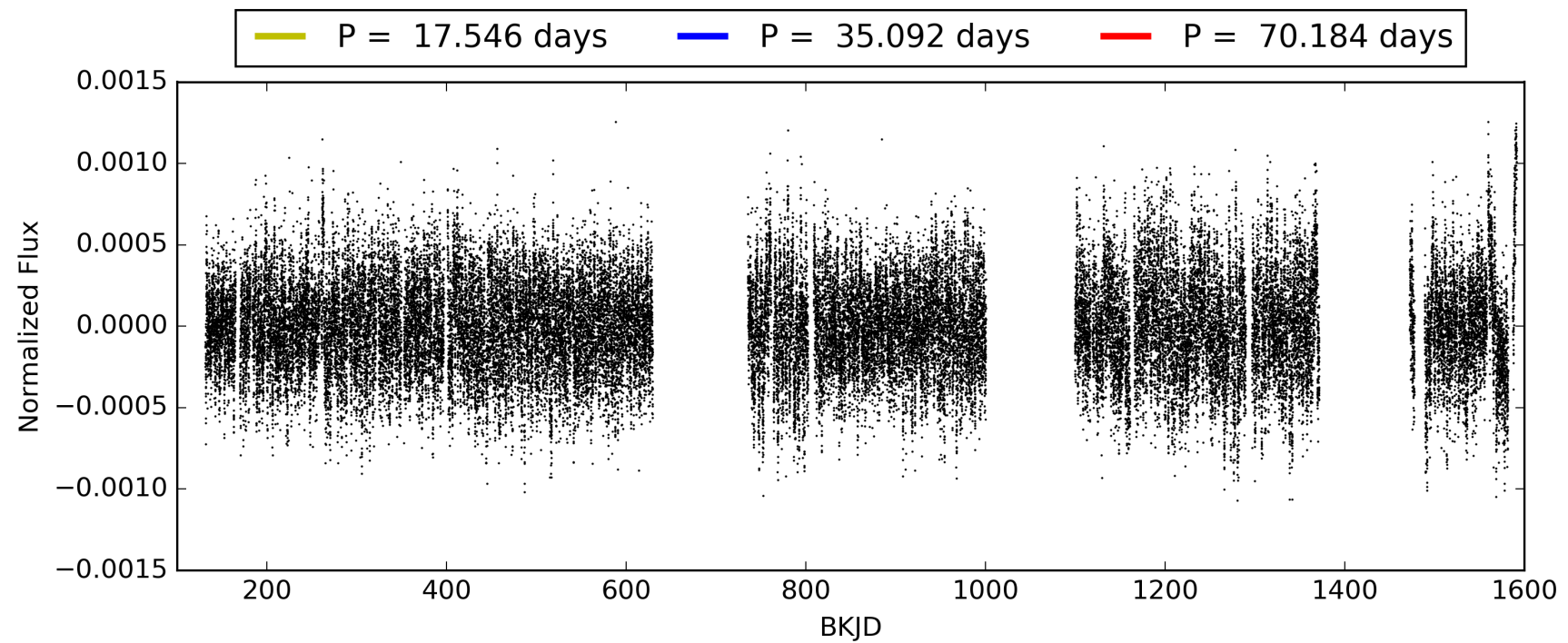
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [151.11 σ]
LongPeriod-sig: 100.0% [25.73 σ]
ModelChiSquare2-sig: 24.6%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.26e-09
RollingBand-fgt: 1.00 [10/10]
GhostDiagnostic-chr: -0.1964
Centroid-sig: 9.9%
Centroid-so: 1.091 arcsec [1.67 σ]
OotOffset-rm: 1.473 arcsec [2.33 σ]
KicOffset-rm: 1.367 arcsec [2.21 σ]
OotOffset-st: 1/1/1/3 [6]
KicOffset-st: 1/1/1/3 [6]
DiffImageQuality-fgm: 0.33 [2/6]
DiffImageOverlap-fno: 0.00 [0/14]

TCE 011206101-03, PDC Light Curves

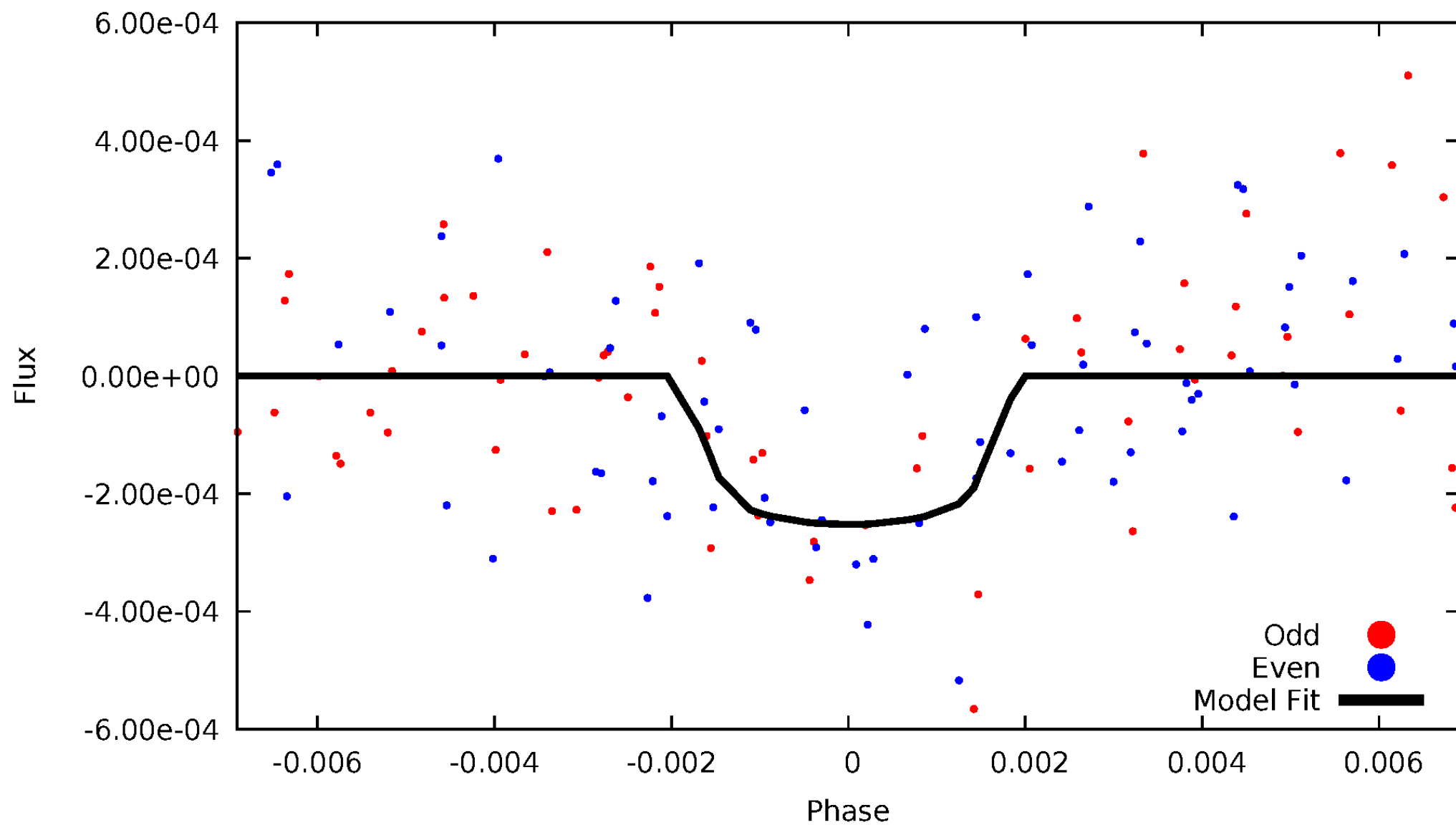


TCE 011206101-03



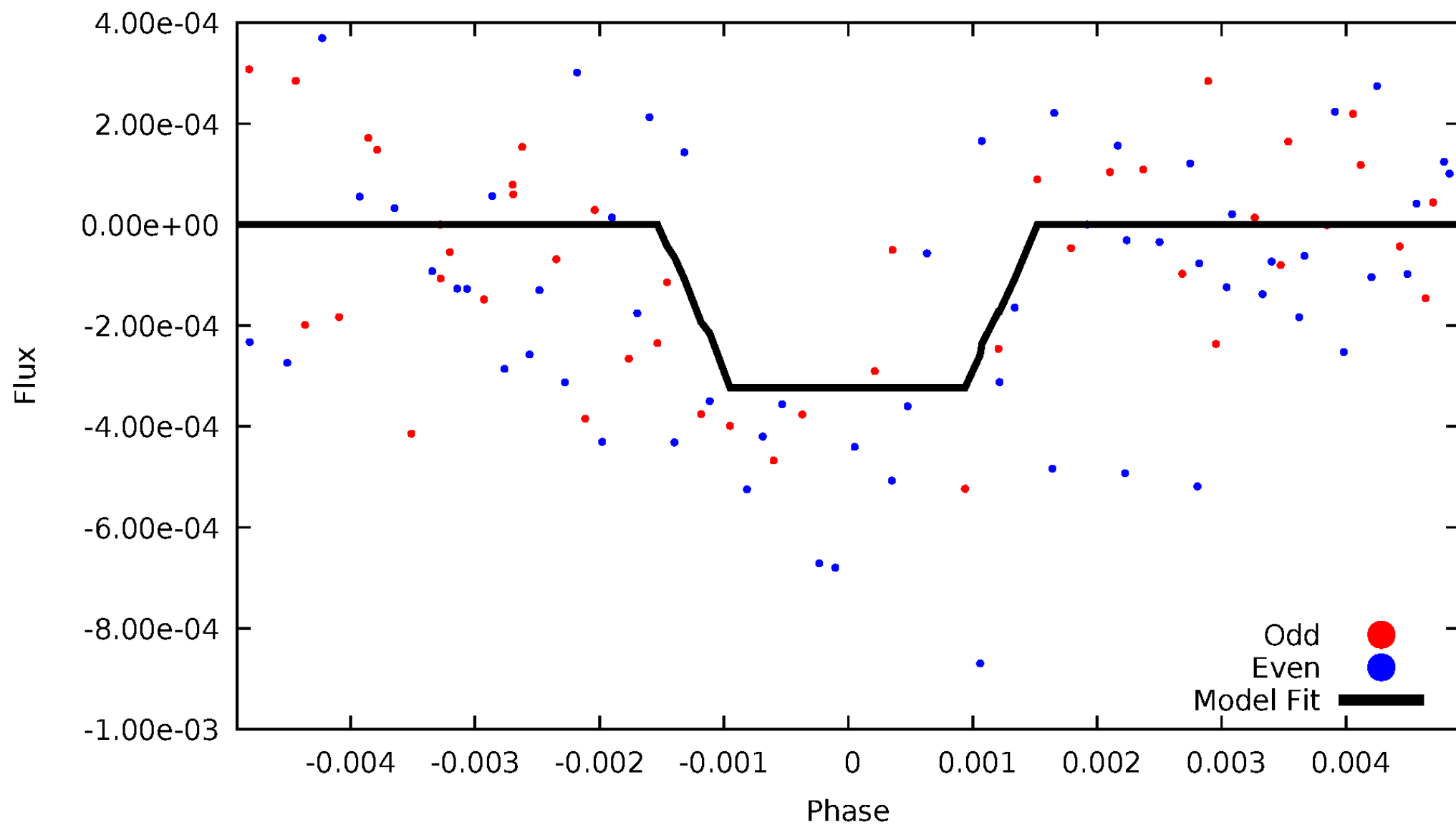
DV Odd/Even

TCE 011206101-03



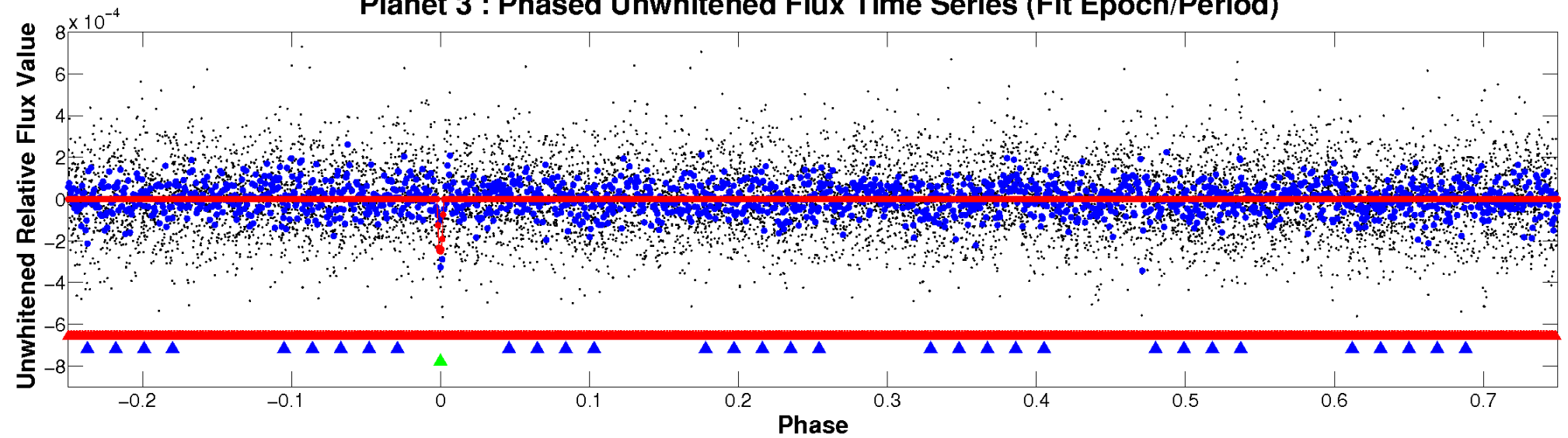
ALT Odd/Even

TCE 011206101-03

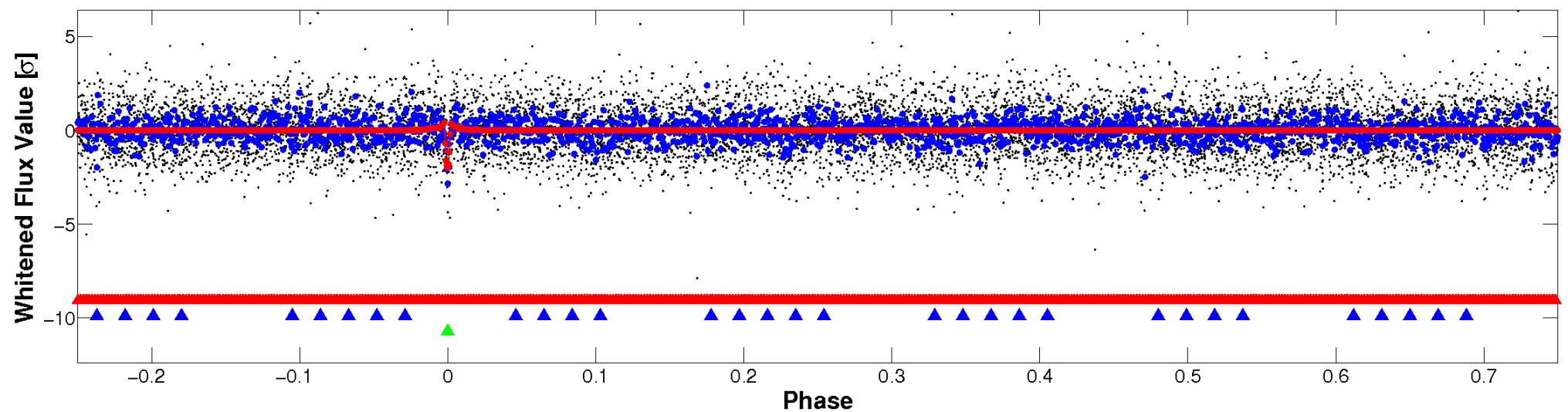


Non-Whitened Vs. Whitened Light Curve

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

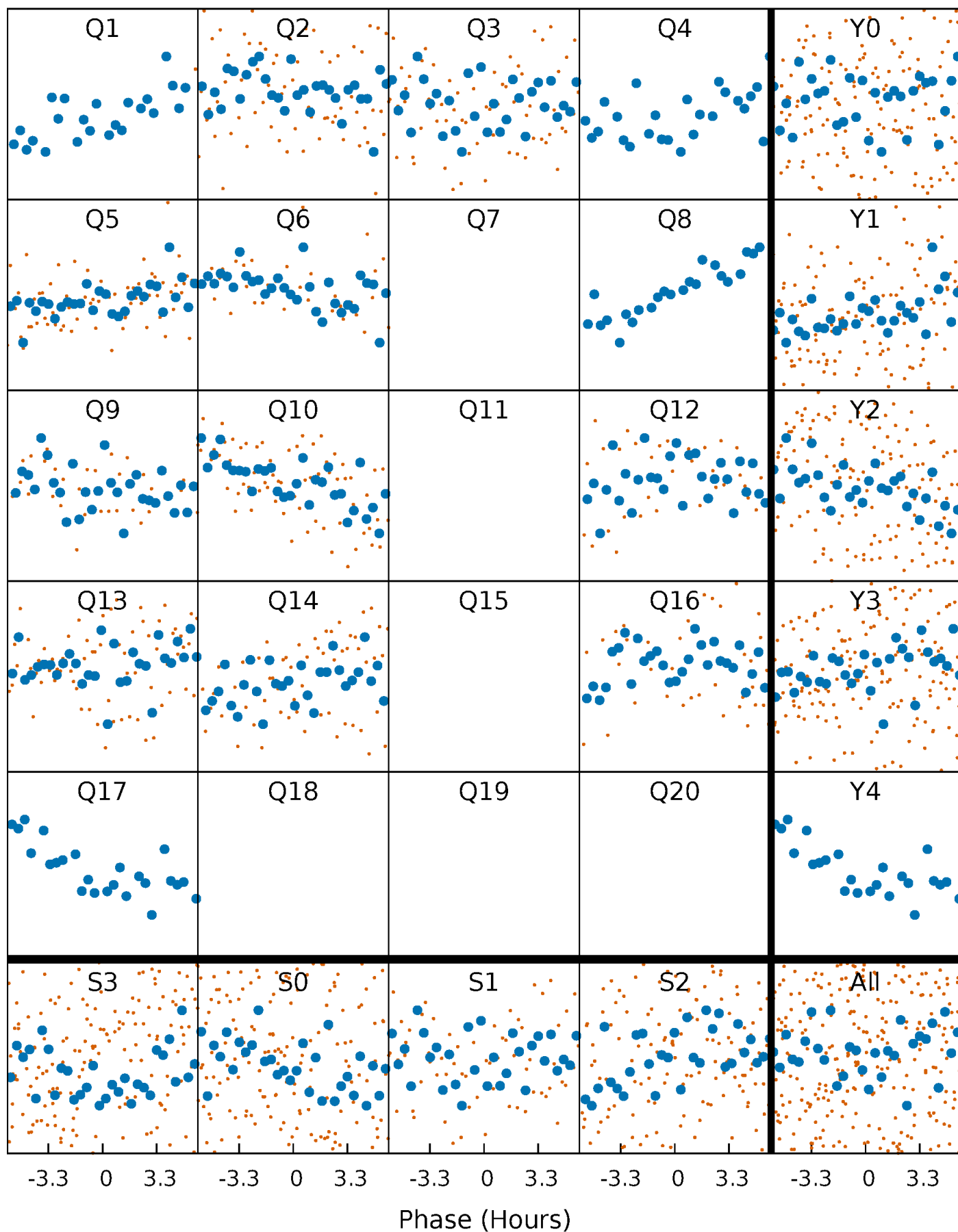


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



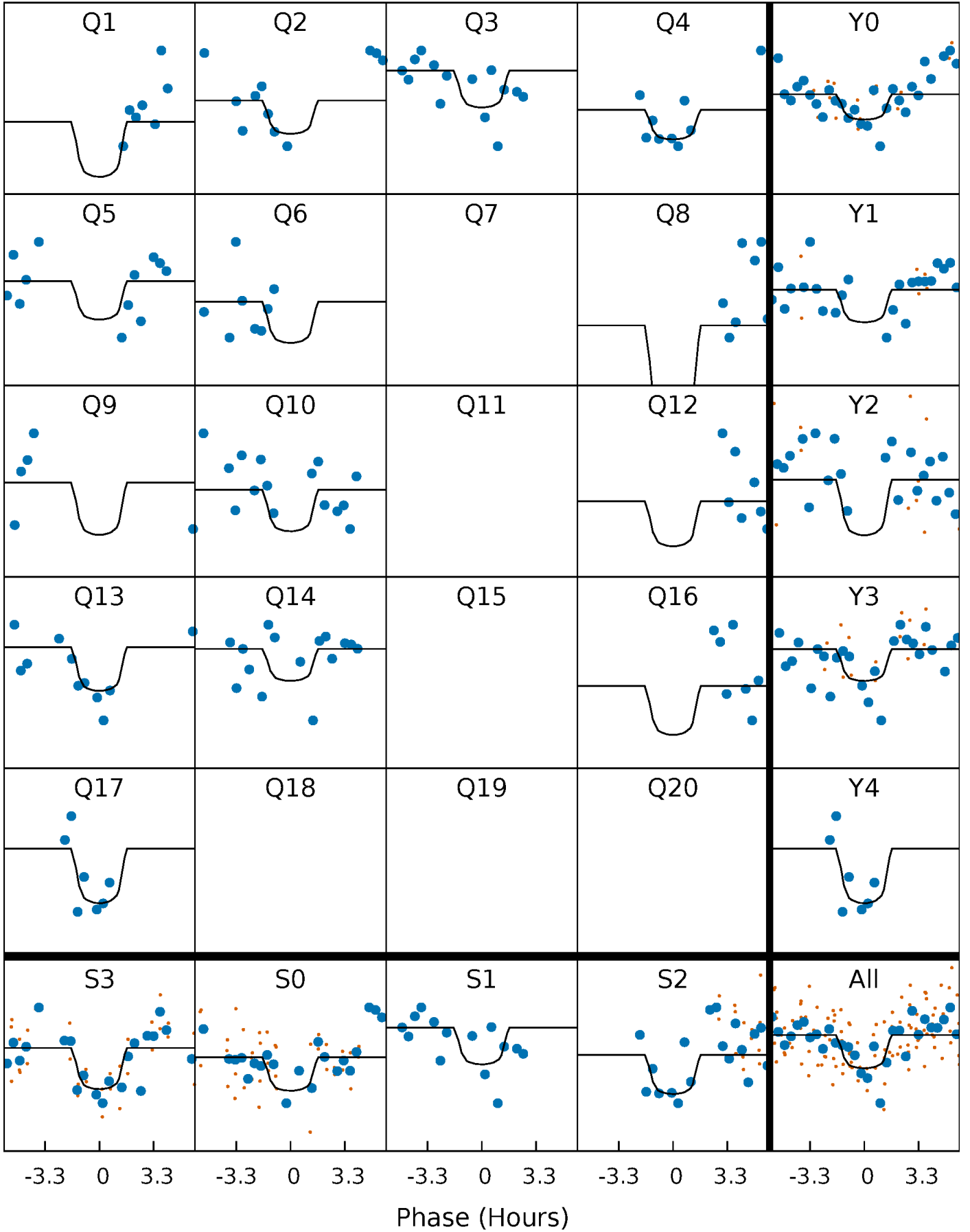
PDC Quarter-Phased Transit Curves

TCE 011206101-03 P= 35.092038 Days $T_0=138.447914$ (BKJD)



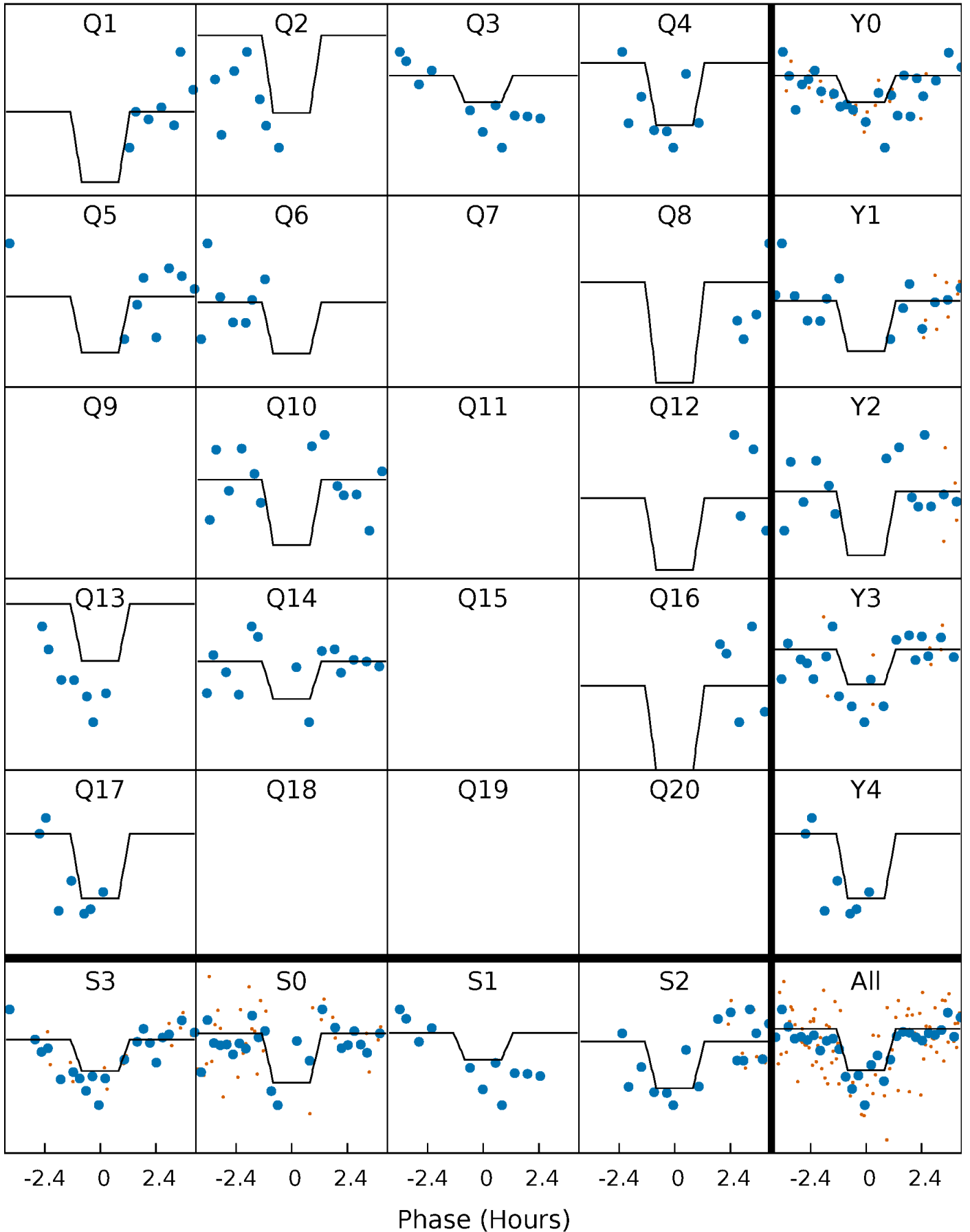
DV Quarter-Phased Transit Curves

TCE 011206101-03 P= 35.092038 Days $T_0=138.447914$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

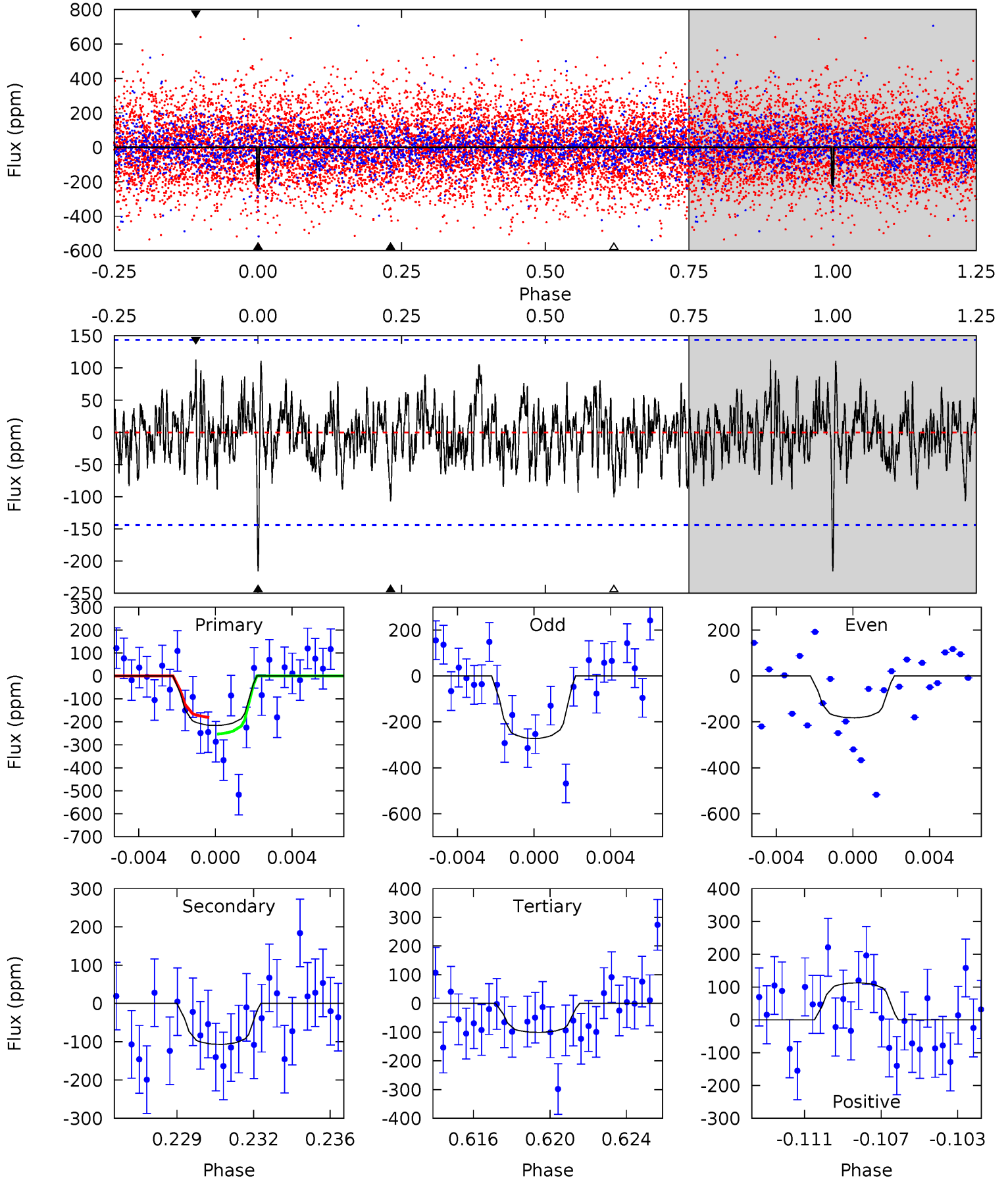
TCE 011206101-03 P= 35.092388 Days $T_0=138.453264$ (BKJD)



DV Model-Shift Uniqueness Test

011206101-03, P = 35.092038 Days, E = 103.355876 Days

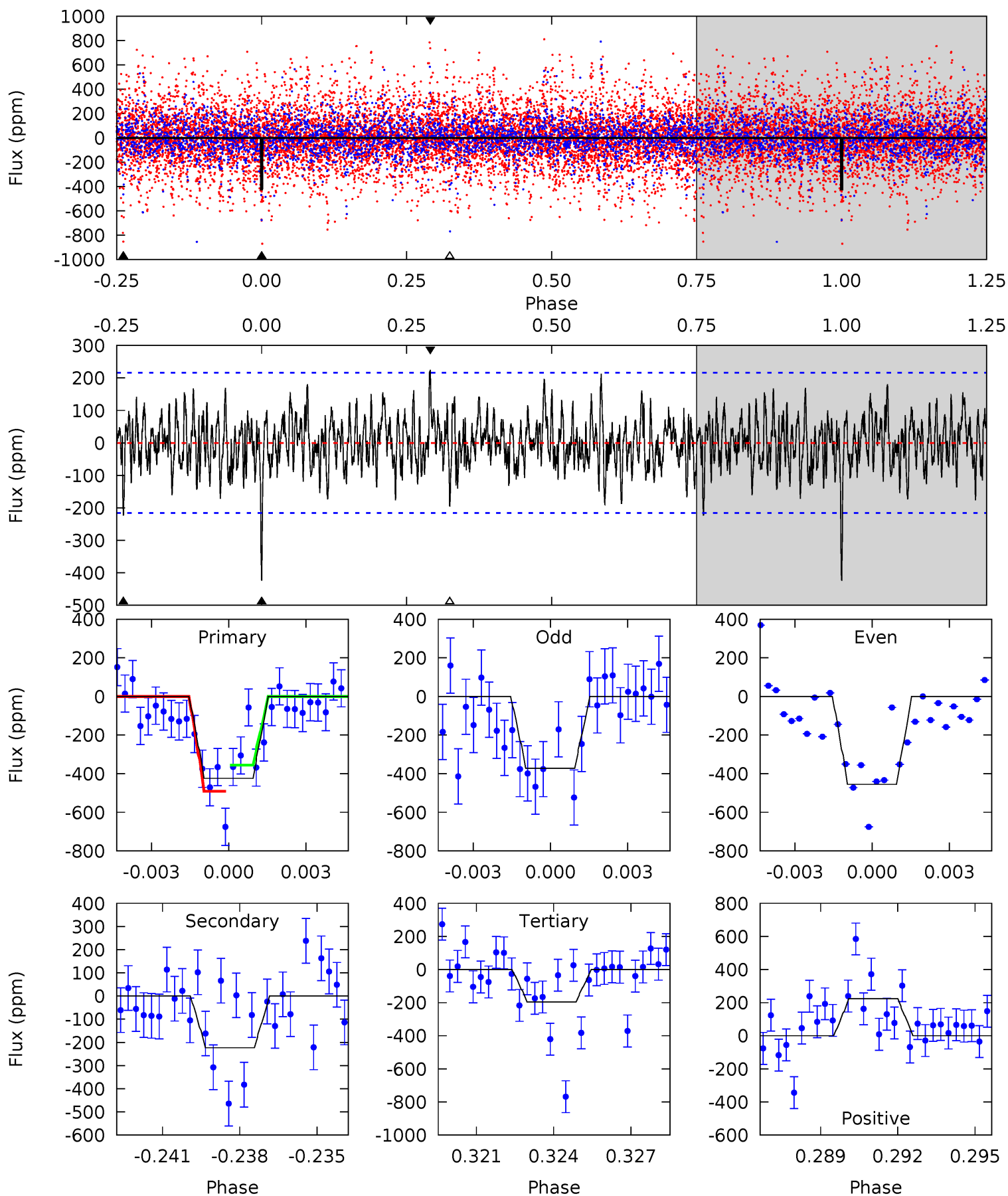
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.83	3.88	3.66	4.09	5.21	2.90	1.29	4.17	3.74	0.22	-0.21	1.60	0.74	0.34	1.32



Alt Model-Shift Uniqueness Test

011206101-03, P = 35.092388 Days, E = 103.360876 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	5.43	4.76	5.47	5.25	2.97	1.59	5.55	4.85	0.67	-0.04	0.96	1.03	0.35	1.66



Stellar Parameters For KIC 011206101

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6675^{+180}_{-220}	$3.522^{+0.360}_{-0.090}$	$-0.300^{+0.350}_{-0.250}$	$3.755^{+0.390}_{-1.561}$	$1.711^{+0.172}_{-0.400}$	$0.045^{+0.127}_{-0.013}$
	+3%/-3%	+10%/-3%	+117%/-83%	+10%/-42%	+10%/-23%	+279%/-28%
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 011206101-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-107 ± 28	$15.91^{+16.19}_{-11.58}$	1558^{+93}_{-154}	3715^{+2338}_{-804}	15^{+160}_{-11}
Alt.	-223 ± 41	$15.70^{+16.83}_{-10.28}$	1554^{+93}_{-169}	4236^{+2658}_{-954}	31^{+228}_{-24}

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

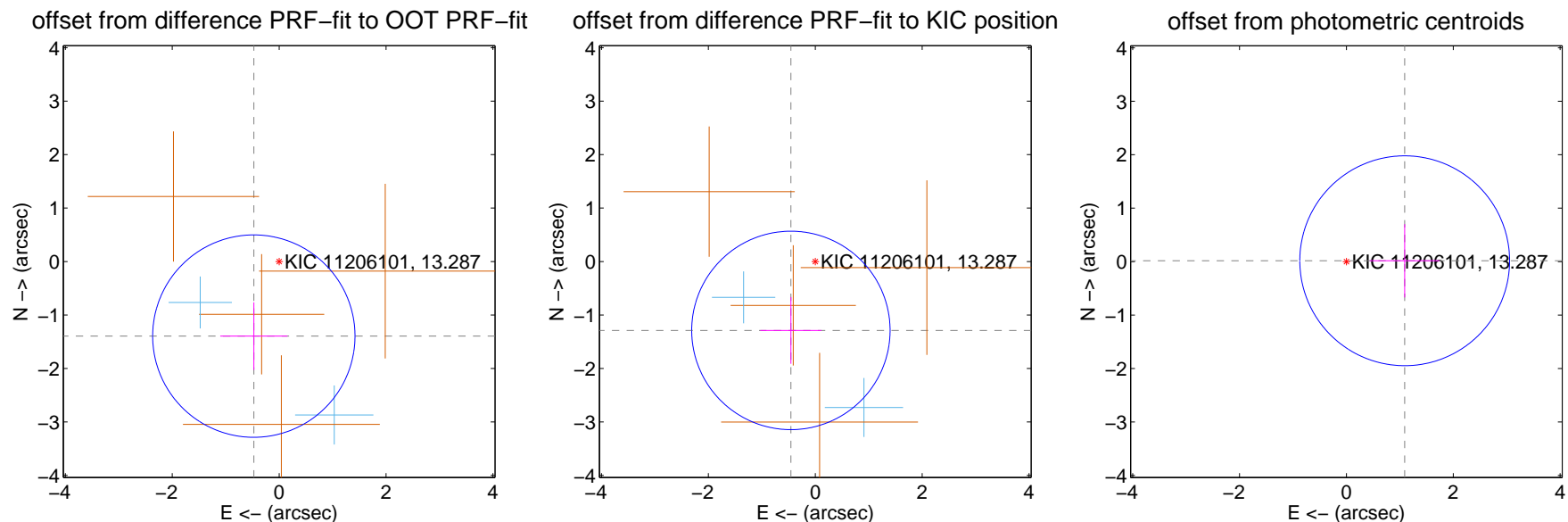
DV Centroid Data

Supplemental centroid analysis for 011206101-03. Kepler magnitude: 13.29. Transit SNR 9.07

There are 2 quarters with good PRF difference image offsets

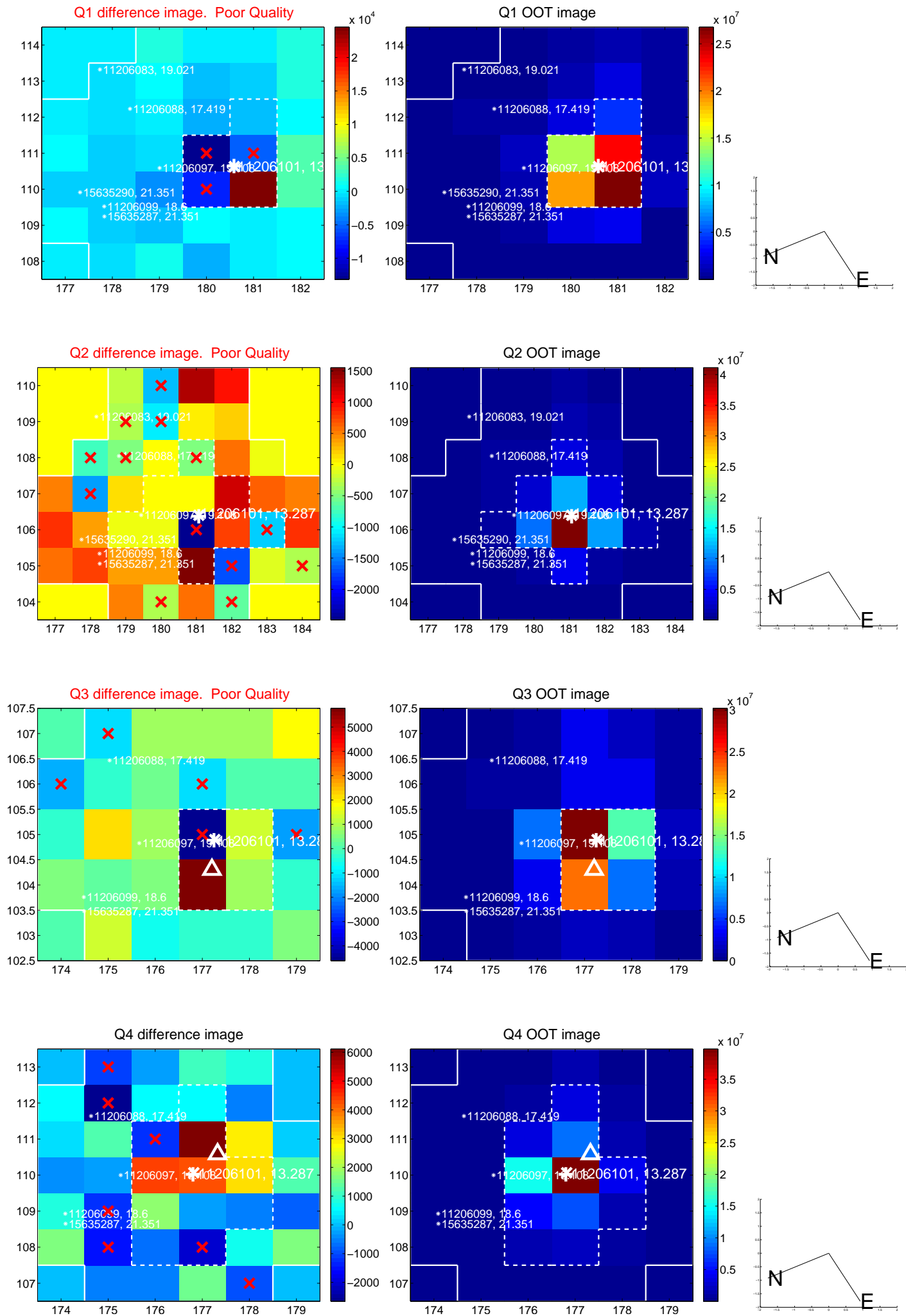
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.473 ± 0.631	2.33	0.474 ± 0.629	-1.395 ± 0.631
PRF-fit source offset from KIC position	1.367 ± 0.619	2.21	0.456 ± 0.572	-1.288 ± 0.624
photometric centroid source offset	1.09 ± 0.65	1.67	-1.09 ± 0.65	0.02 ± 0.69

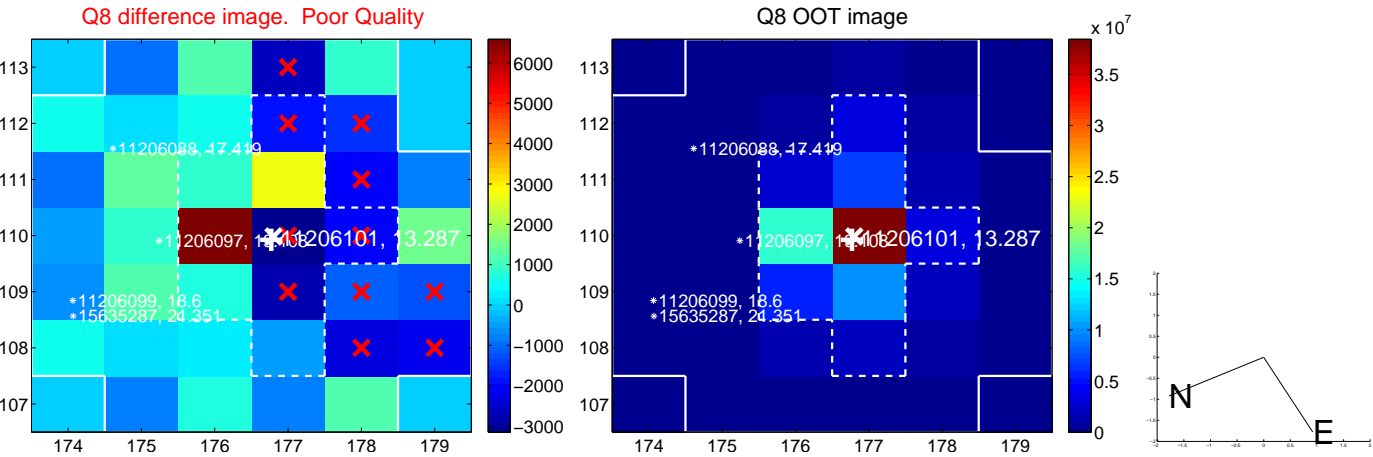
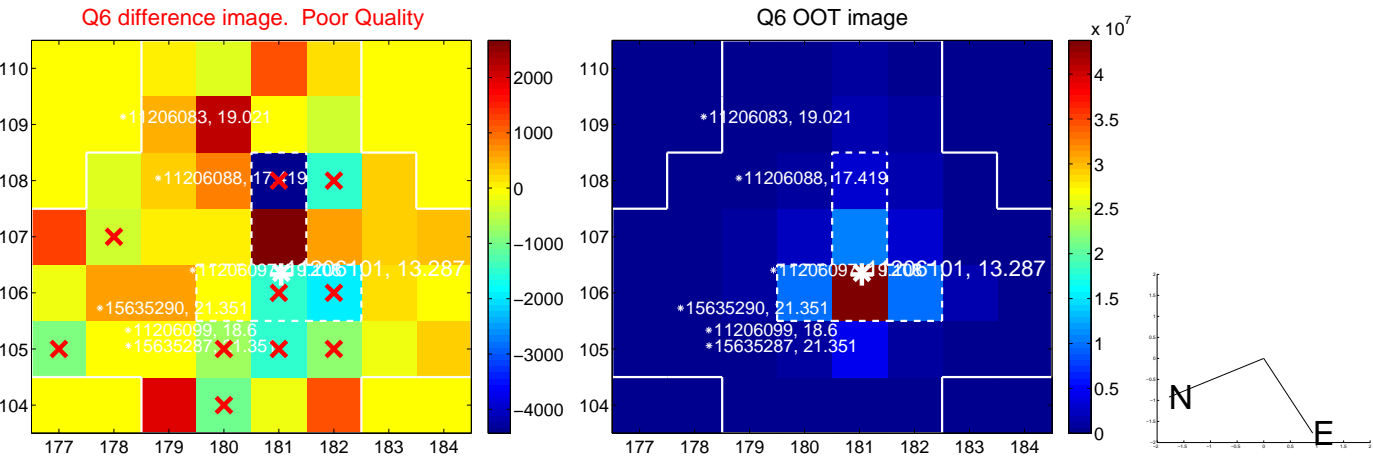
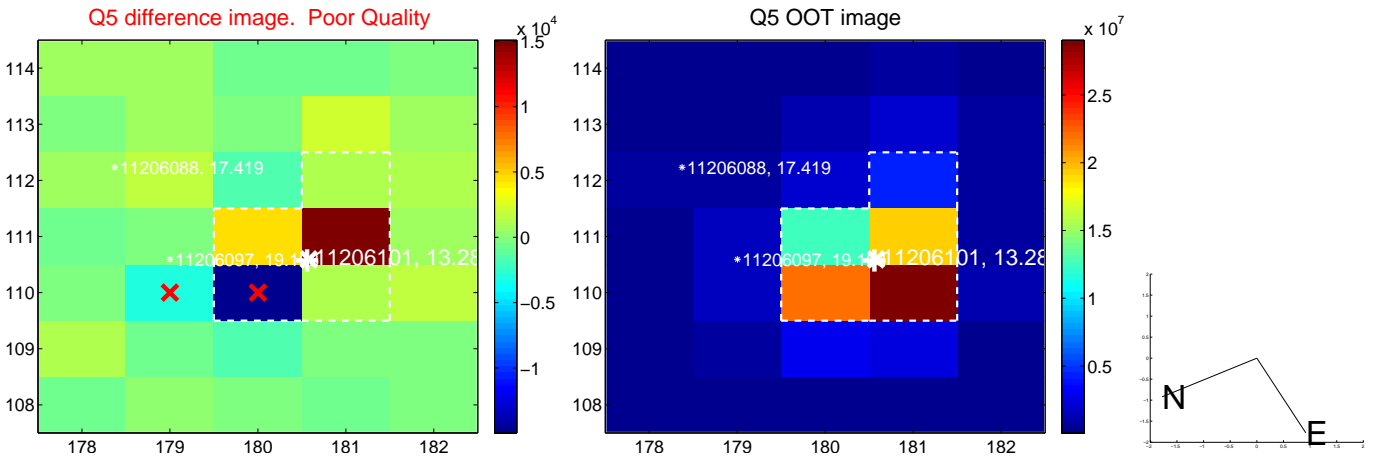


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

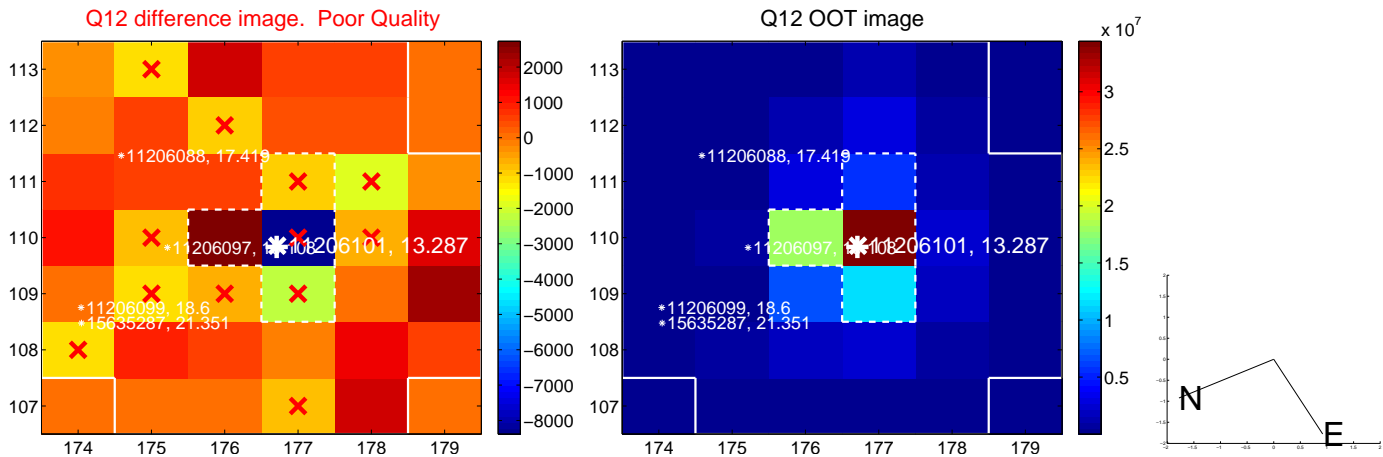
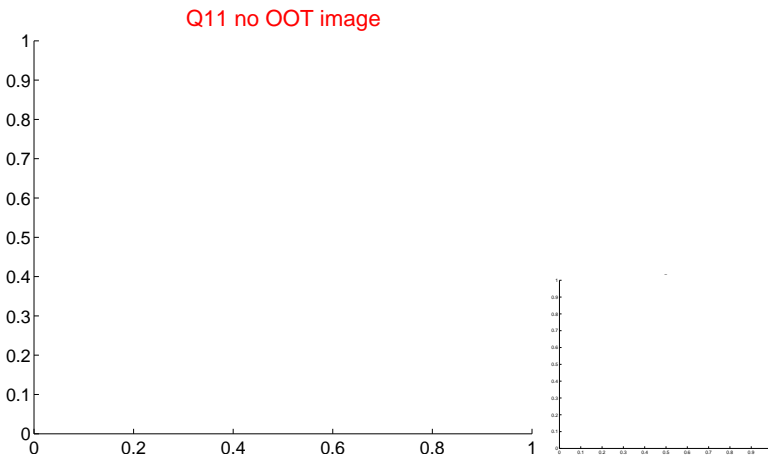
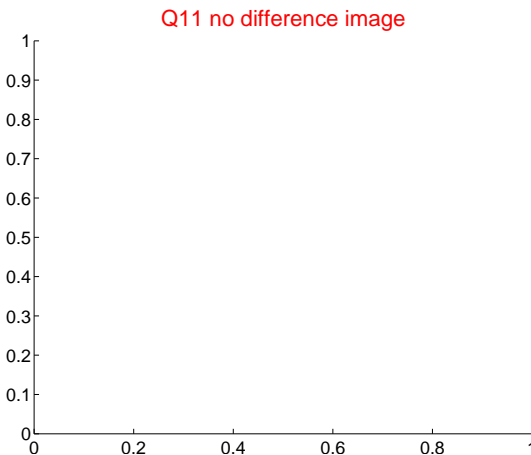
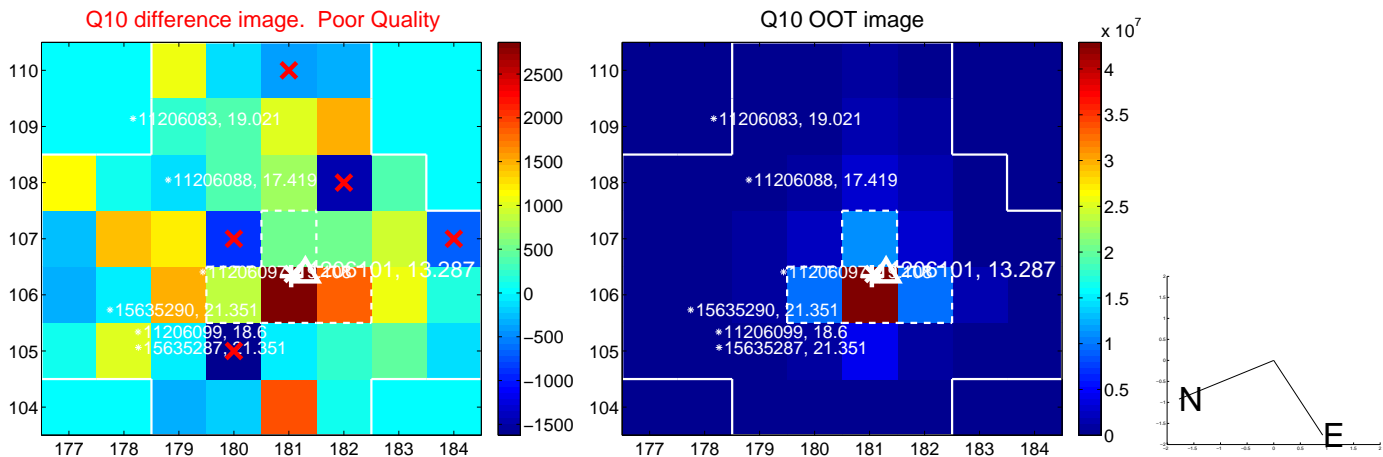
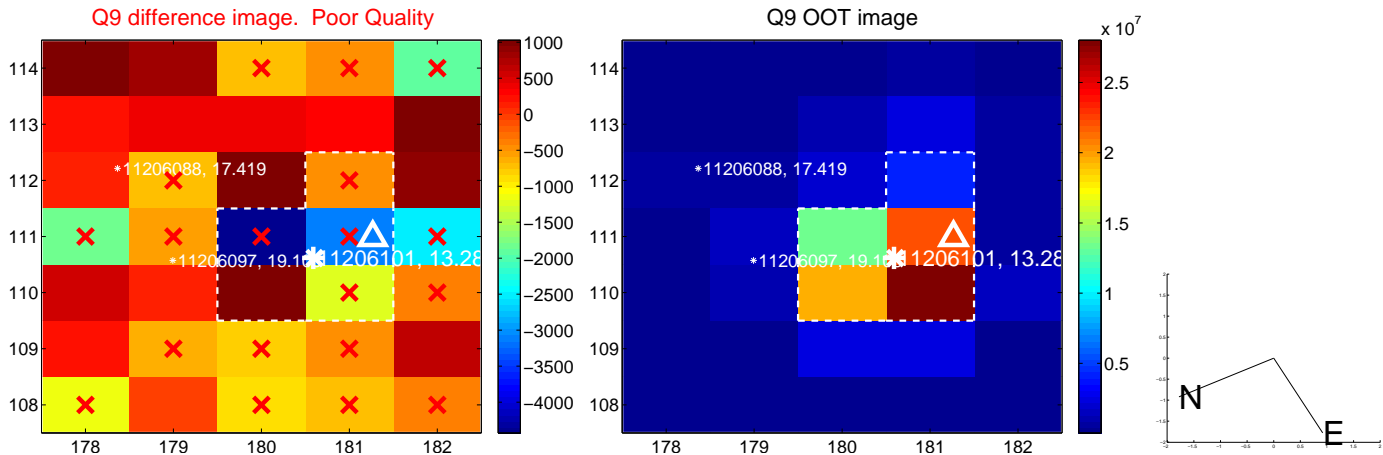
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



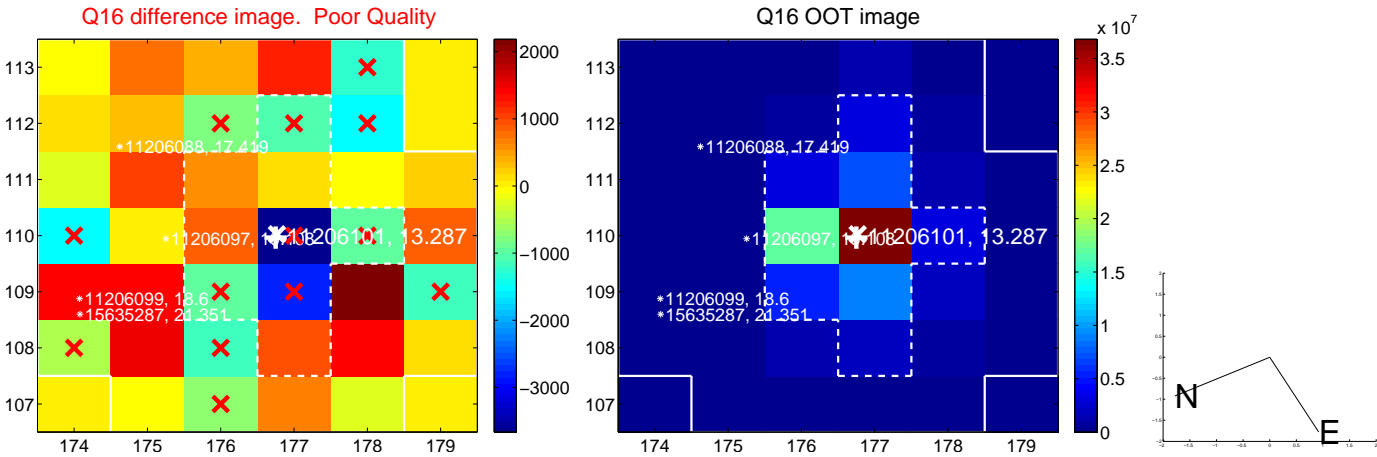
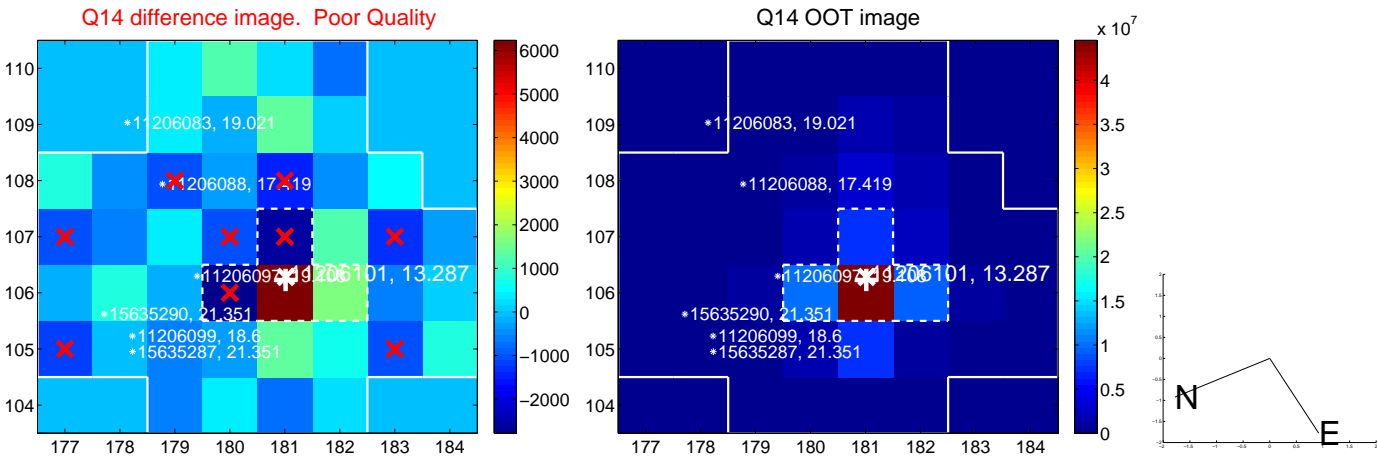
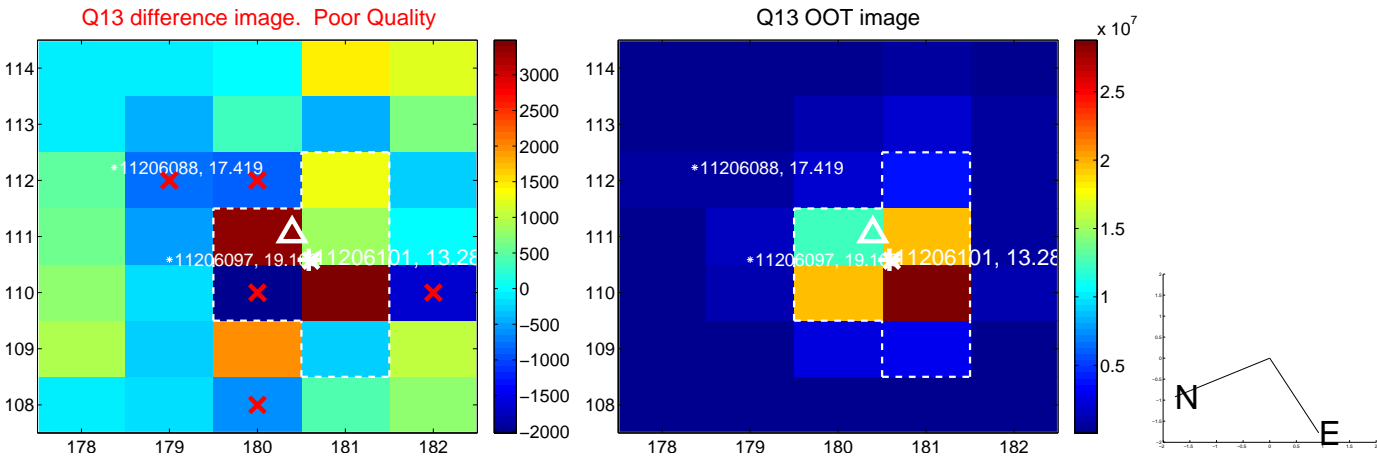
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



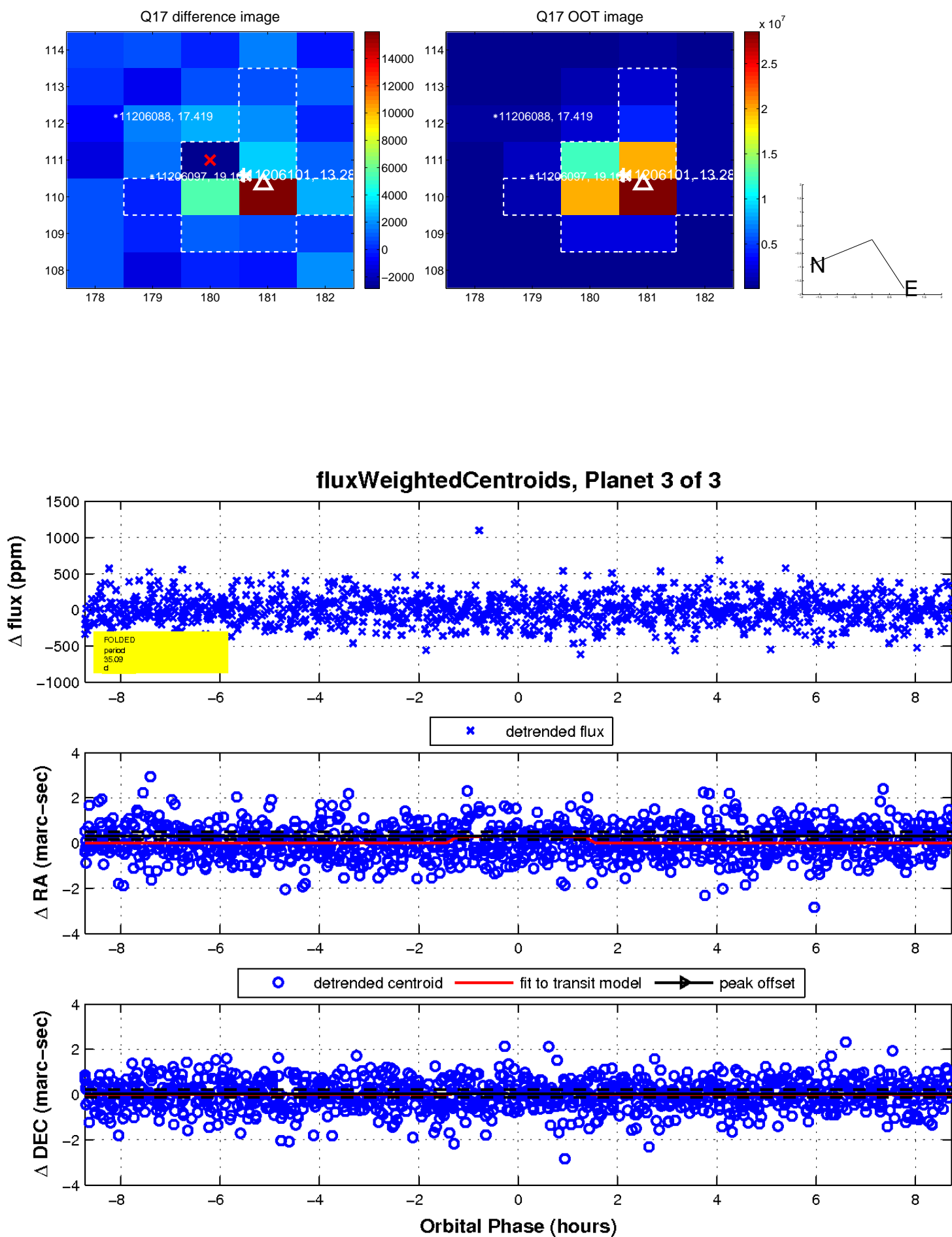
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

