

KIC 006881709

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})
006881709-01	OBS	No	6.741445	136.591543	39.2	18.646	12.6	10.3	0.96	6010	0.71	245.19
006881709-02	OBS	No	2.696211	132.235802	0.0	2.807	9.4	0.0	0.96	6010	0.01	832.09
006881709-03	OBS	No	2.696995	132.548668	7.0	28.568	8.9	2.3	0.96	6010	0.25	831.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006881709-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006881709-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006881709-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

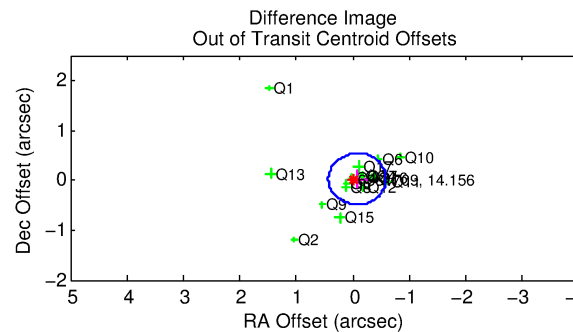
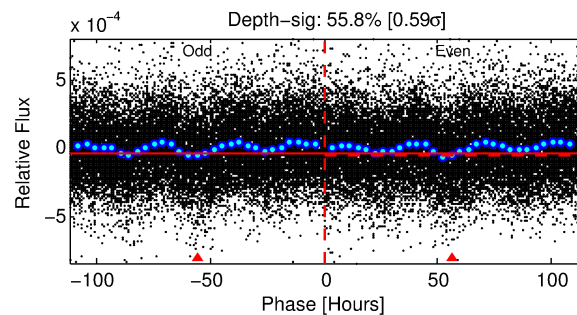
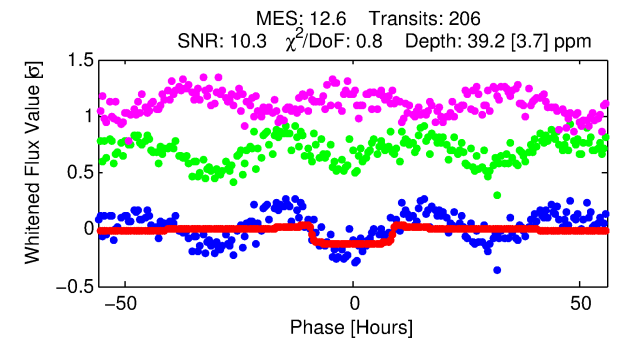
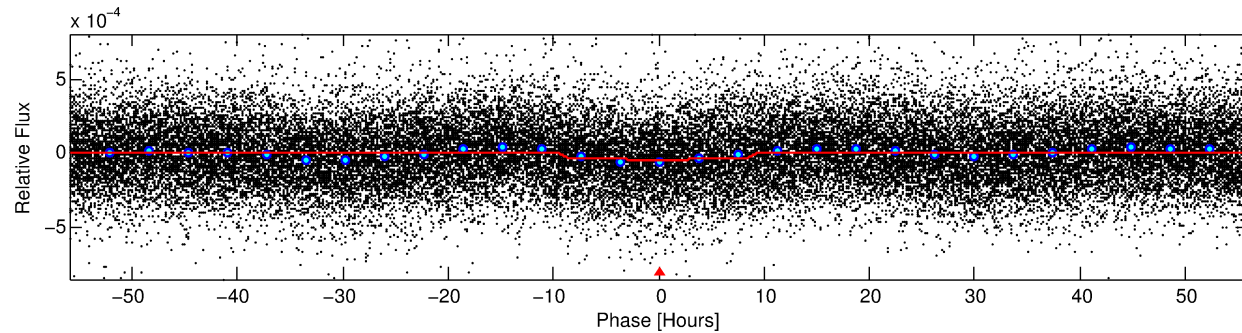
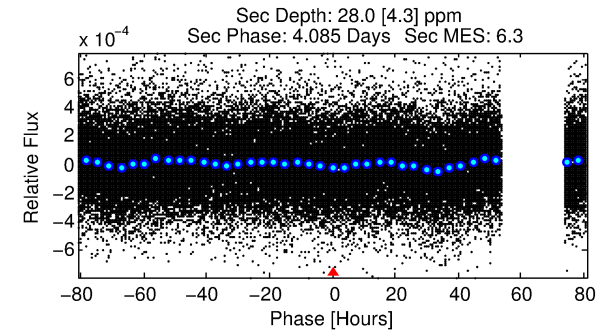
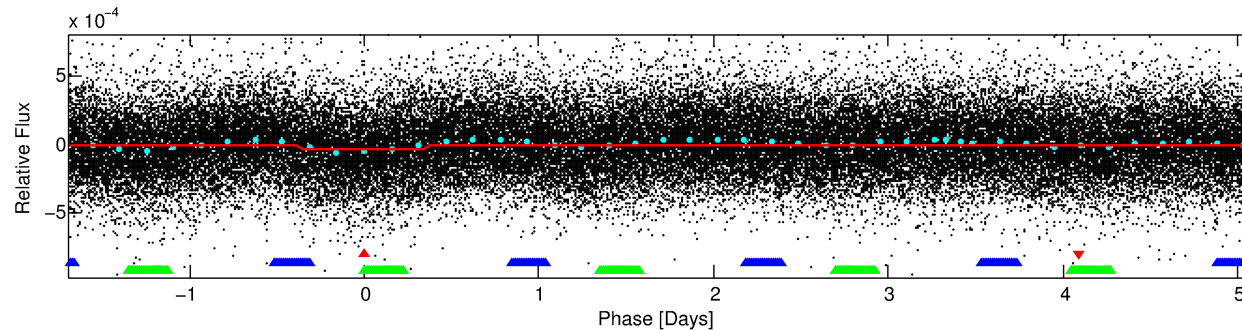
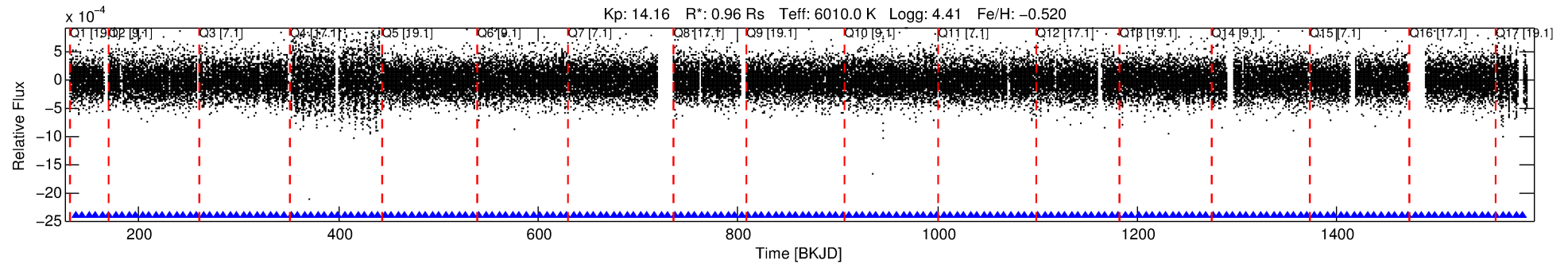
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006881709-01

No Significant Match Found

DV One-Page Summary

KIC: 6881709 Candidate: 1 of 3 Period: 6.741 d



DV Fit Results:

Period = 6.74144 [0.00016] d
Epoch = 136.5915 [0.0183] BKJD
Rp/R* = 0.0068 [0.0009]
a/R* = 1.55 [0.60]
b = 0.90 [0.14]
Seff = 245.19 [86.61]
Teff = 1009 [89] K
Rp = 0.71 [0.20] Re
a = 0.0664 [0.0148] AU
Ag = 135.12 [60.62] [2.21σ]
Teffp = 5319 [431] K [9.80σ]

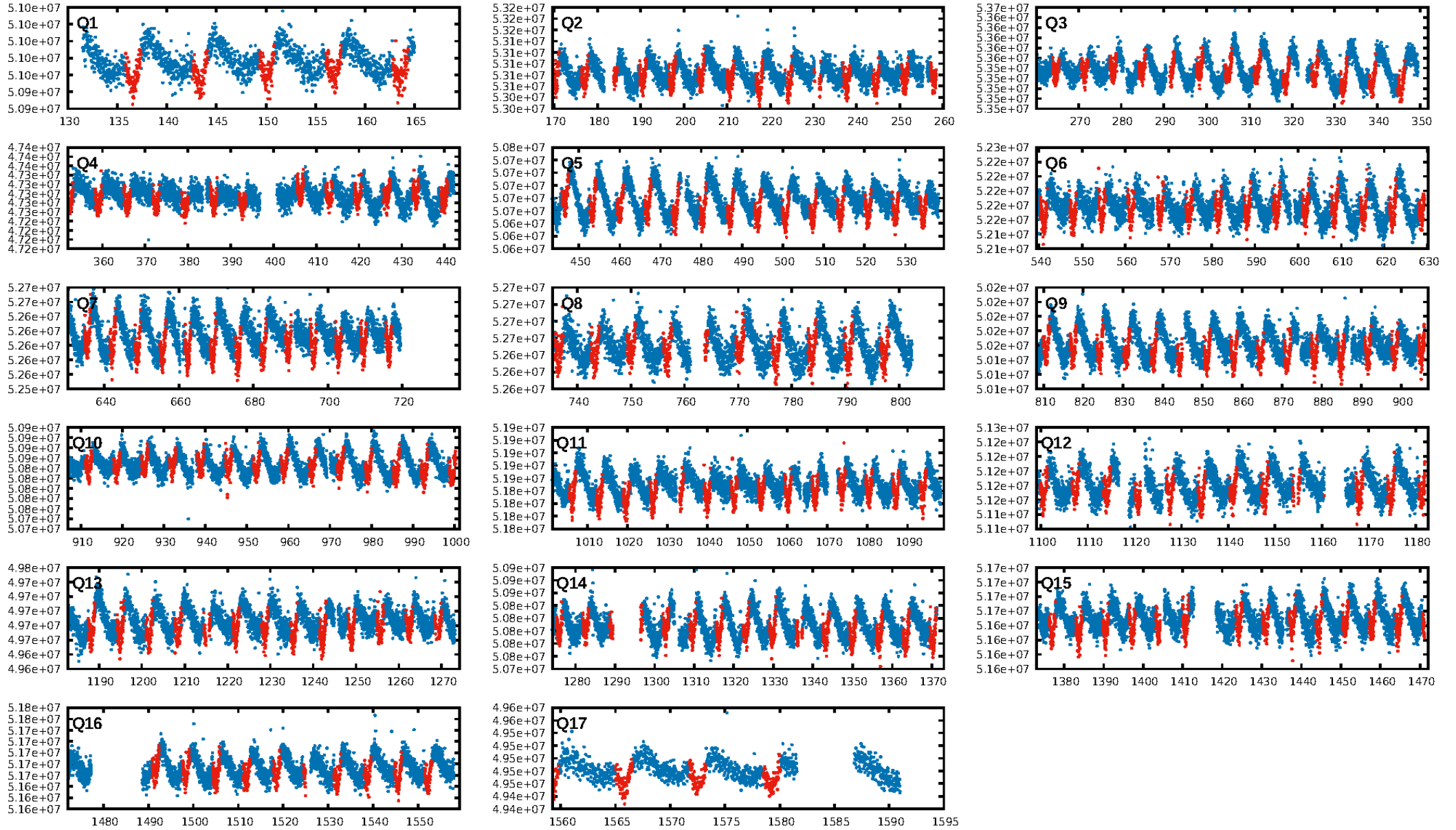
DV Diagnostic Results:

ShortPeriod-sig: 99.6% [2.85σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [197/197]
GhostDiagnostic-chr: 1.02
Centroid-sig: 19.0%
Centroid-so: 1.122 arcsec [1.20σ]
OotOffset-rm: 0.080 arcsec [0.47σ]
KicOffset-rm: 0.202 arcsec [1.24σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 0.00 [0/17]

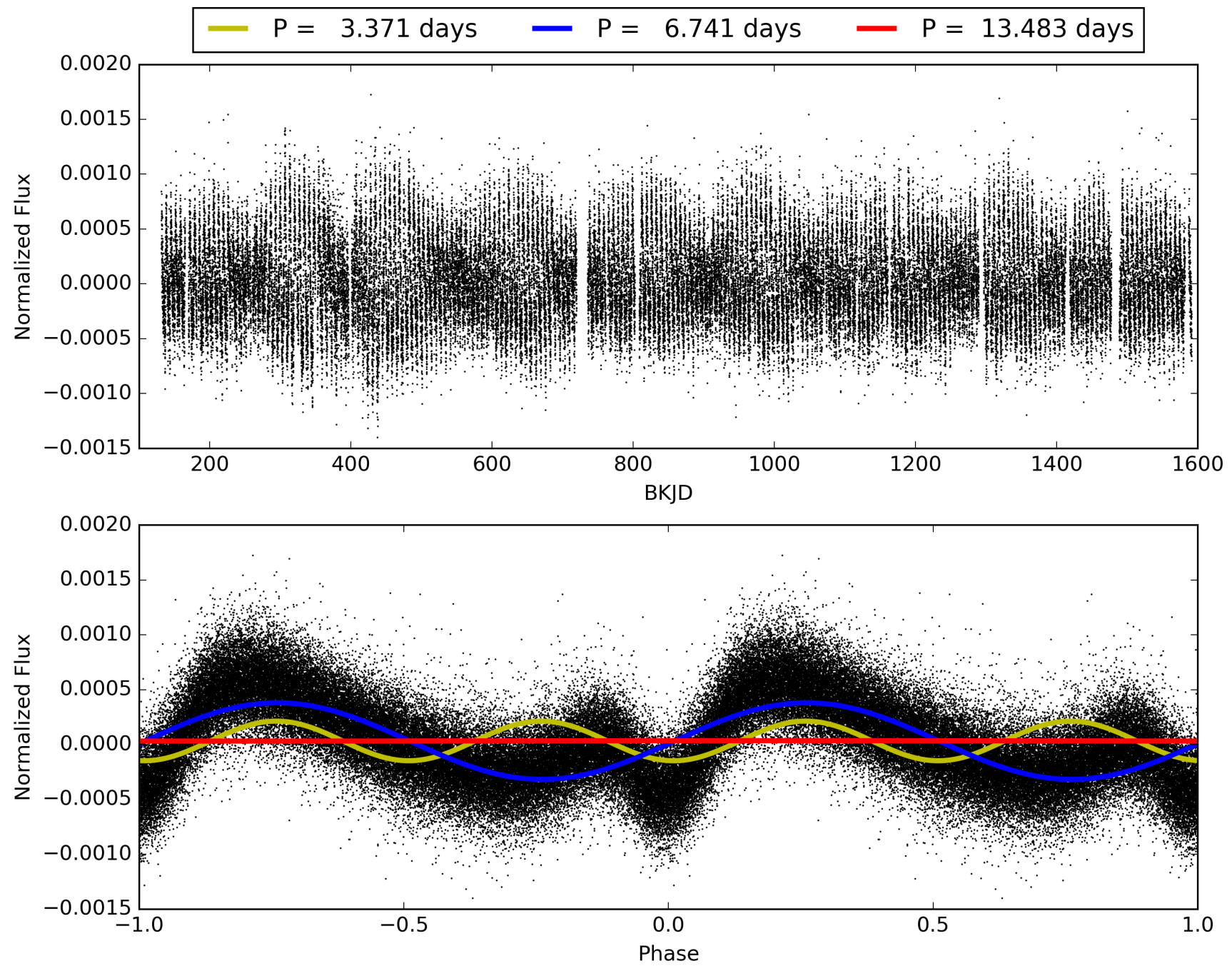
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006881709-01, PDC Light Curves

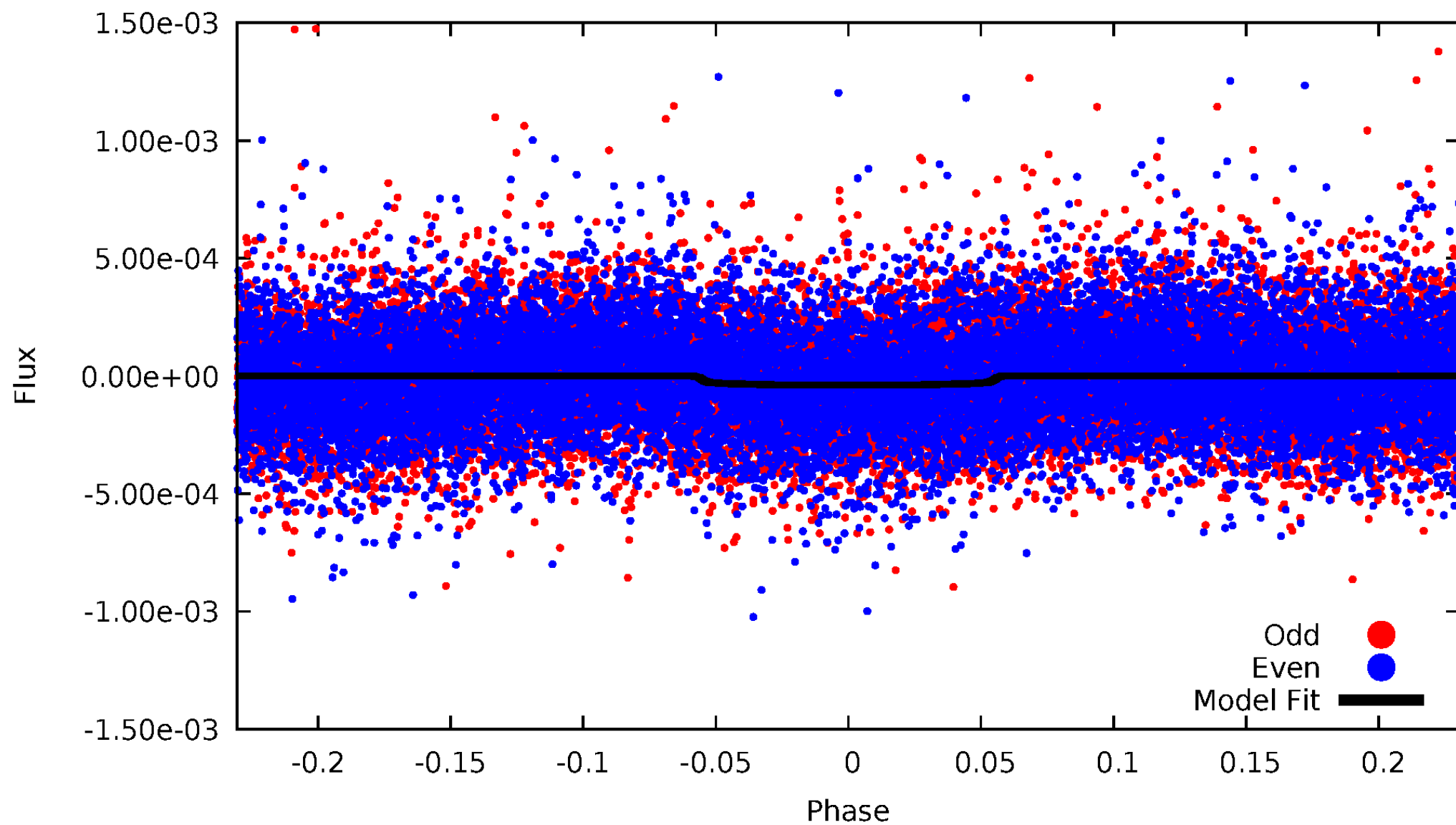


TCE 006881709-01



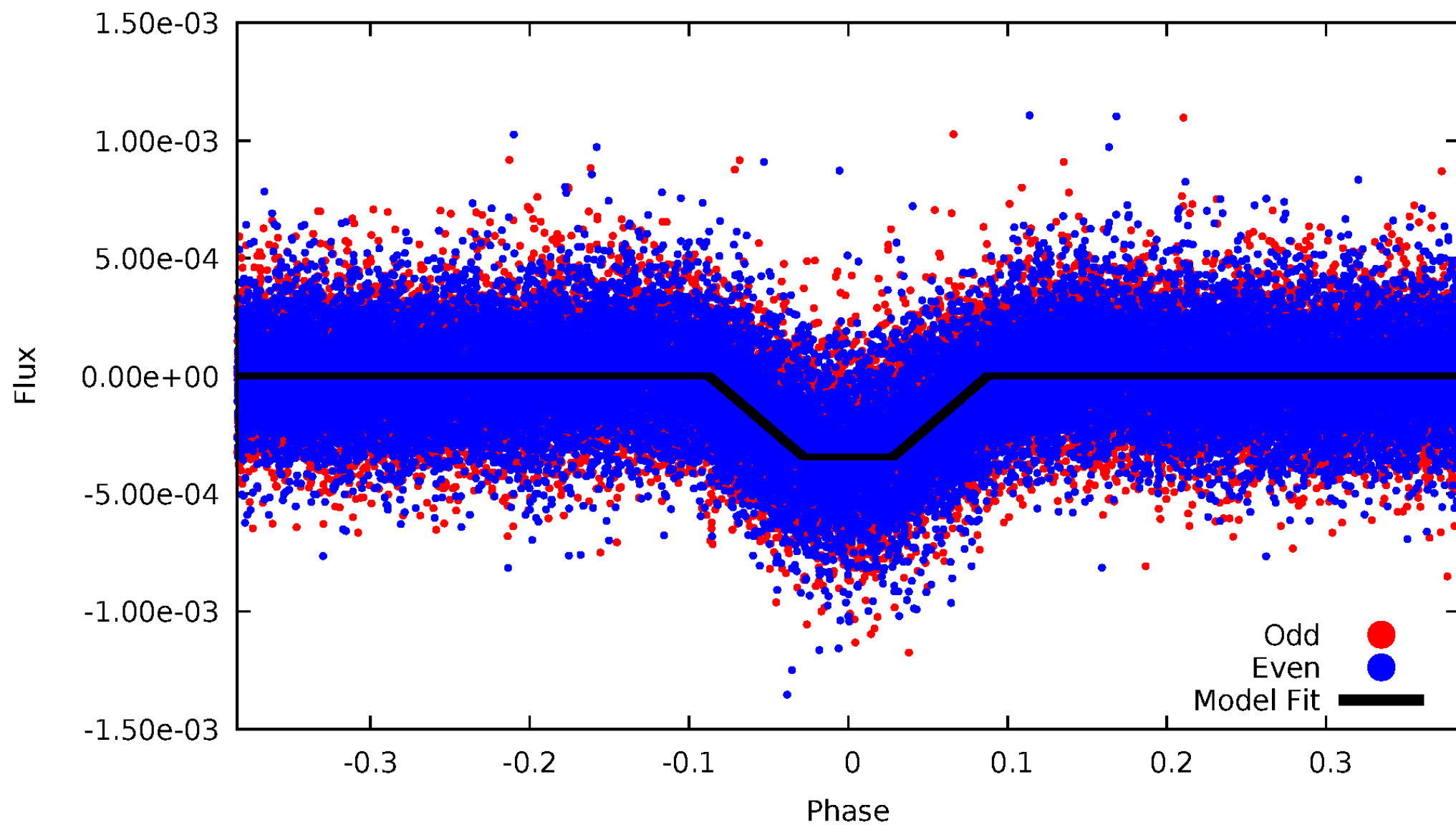
DV Odd/Even

TCE 006881709-01

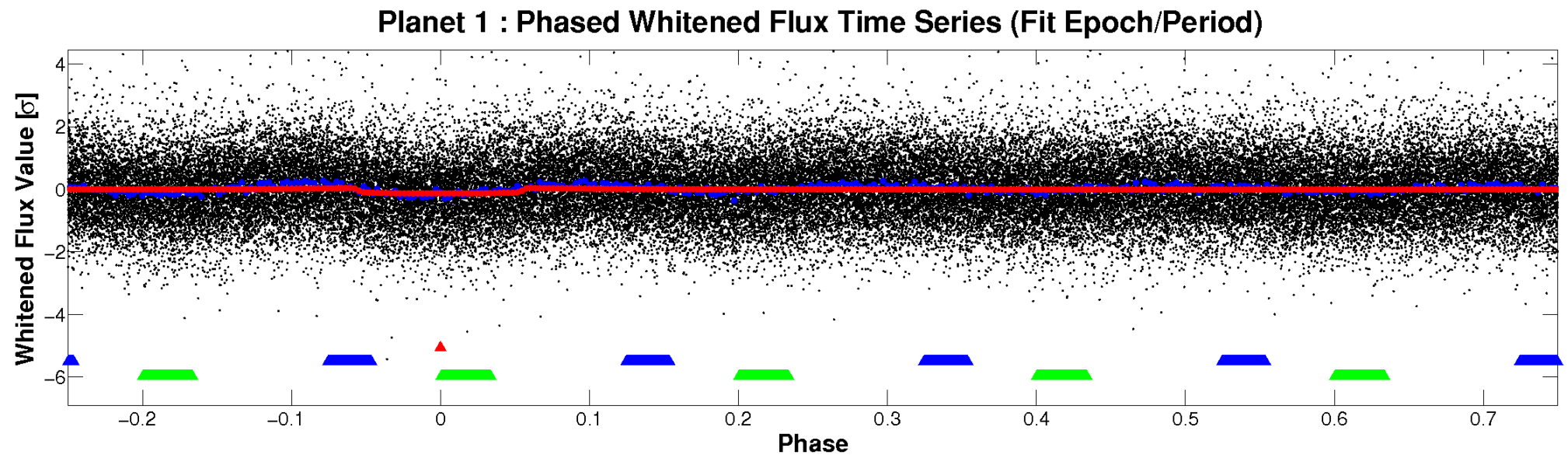
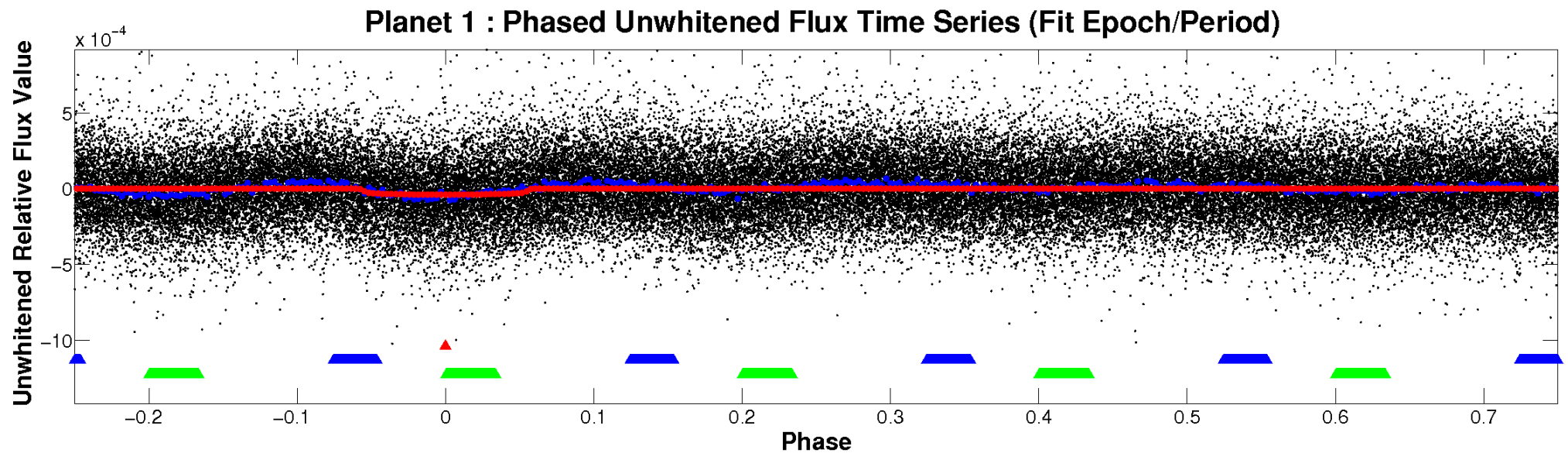


ALT Odd/Even

TCE 006881709-01

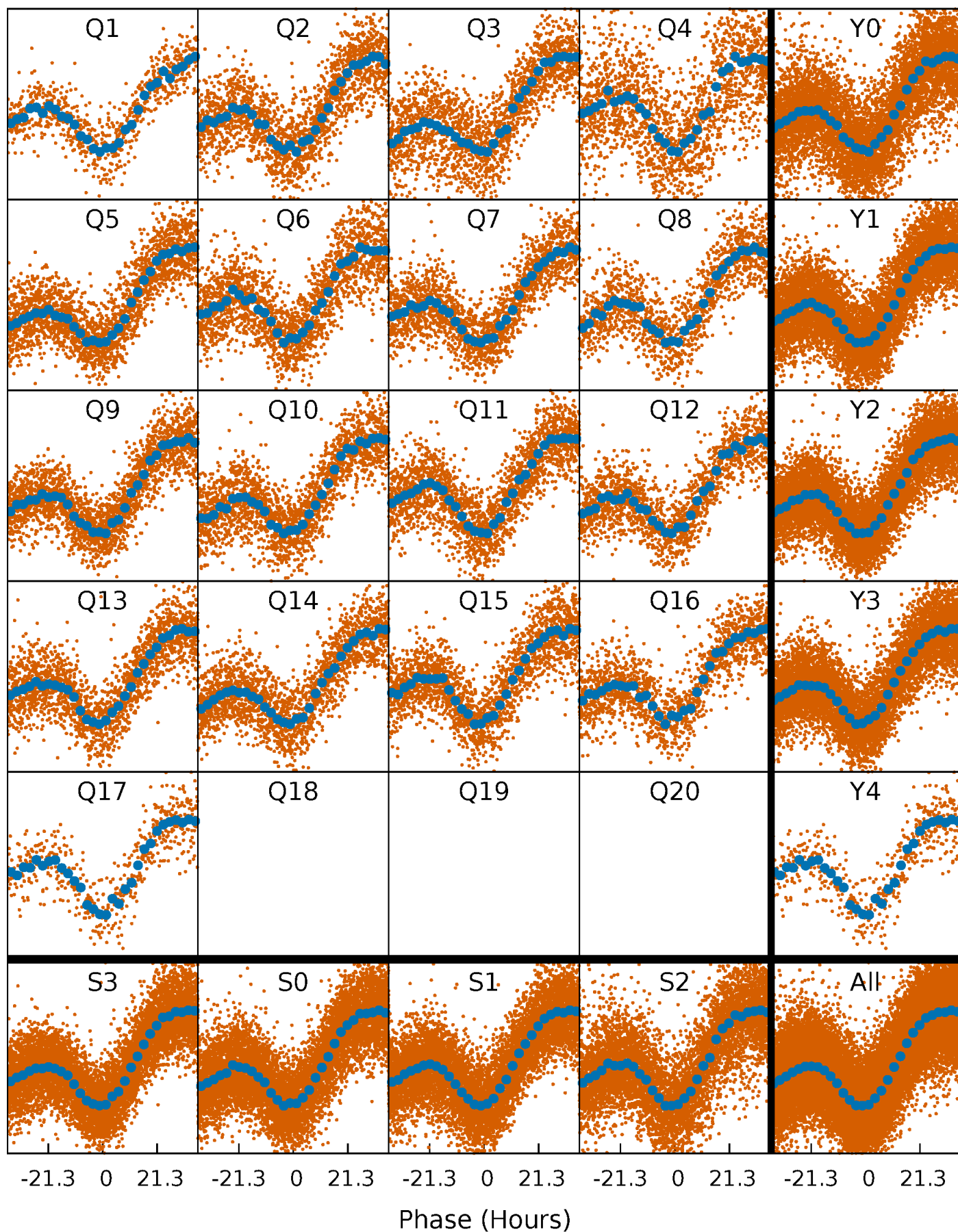


Non-Whitened Vs. Whitened Light Curve



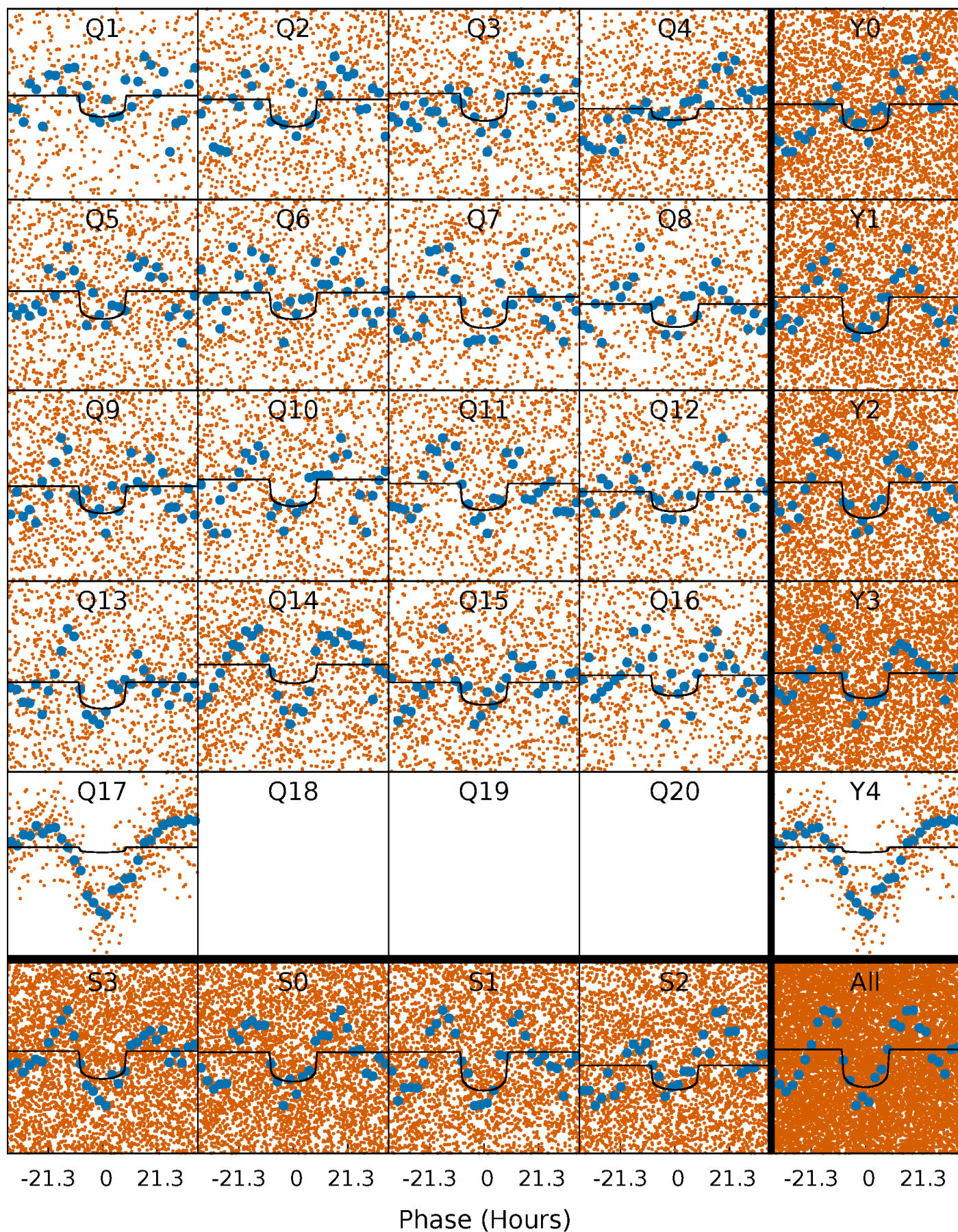
PDC Quarter-Phased Transit Curves

TCE 006881709-01 P= 6.741445 Days $T_0=136.591543$ (BKJD)



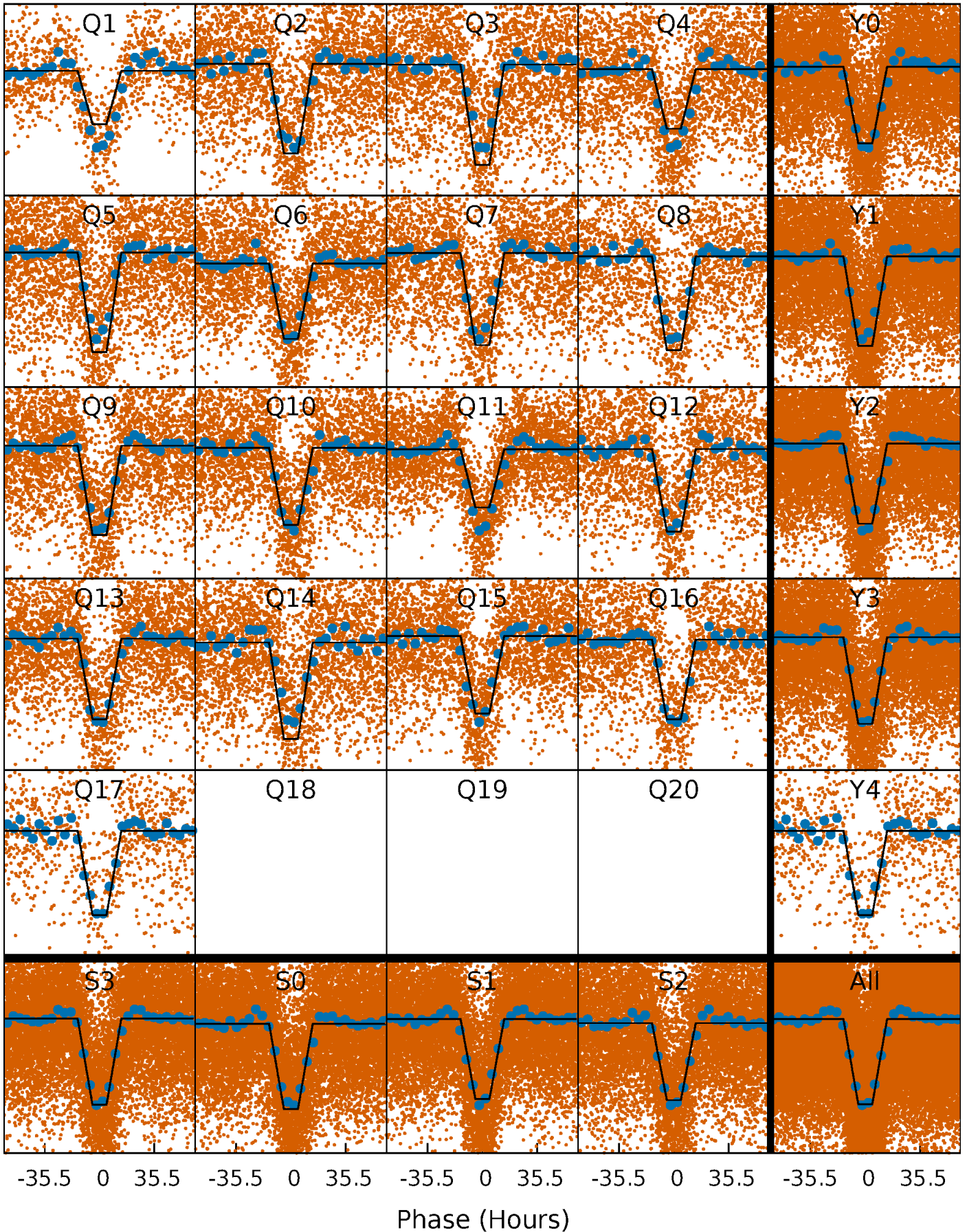
DV Quarter-Phased Transit Curves

TCE 006881709-01 P= 6.741445 Days $T_0=136.591543$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

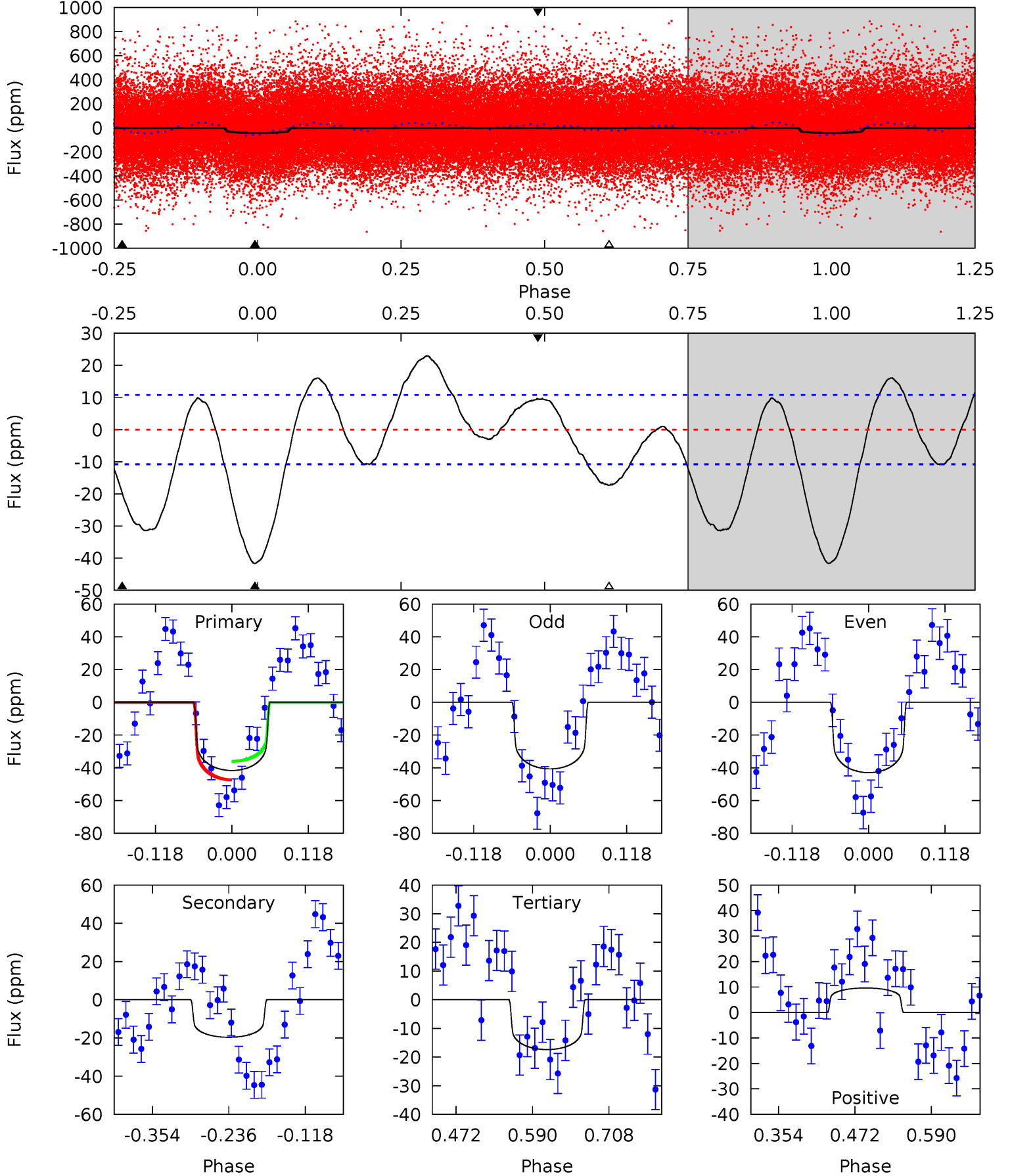
TCE 006881709-01 P= 6.741334 Days $T_0=136.622729$ (BKJD)



DV Model-Shift Uniqueness Test

006881709-01, P = 6.741445 Days, E = 129.850098 Days

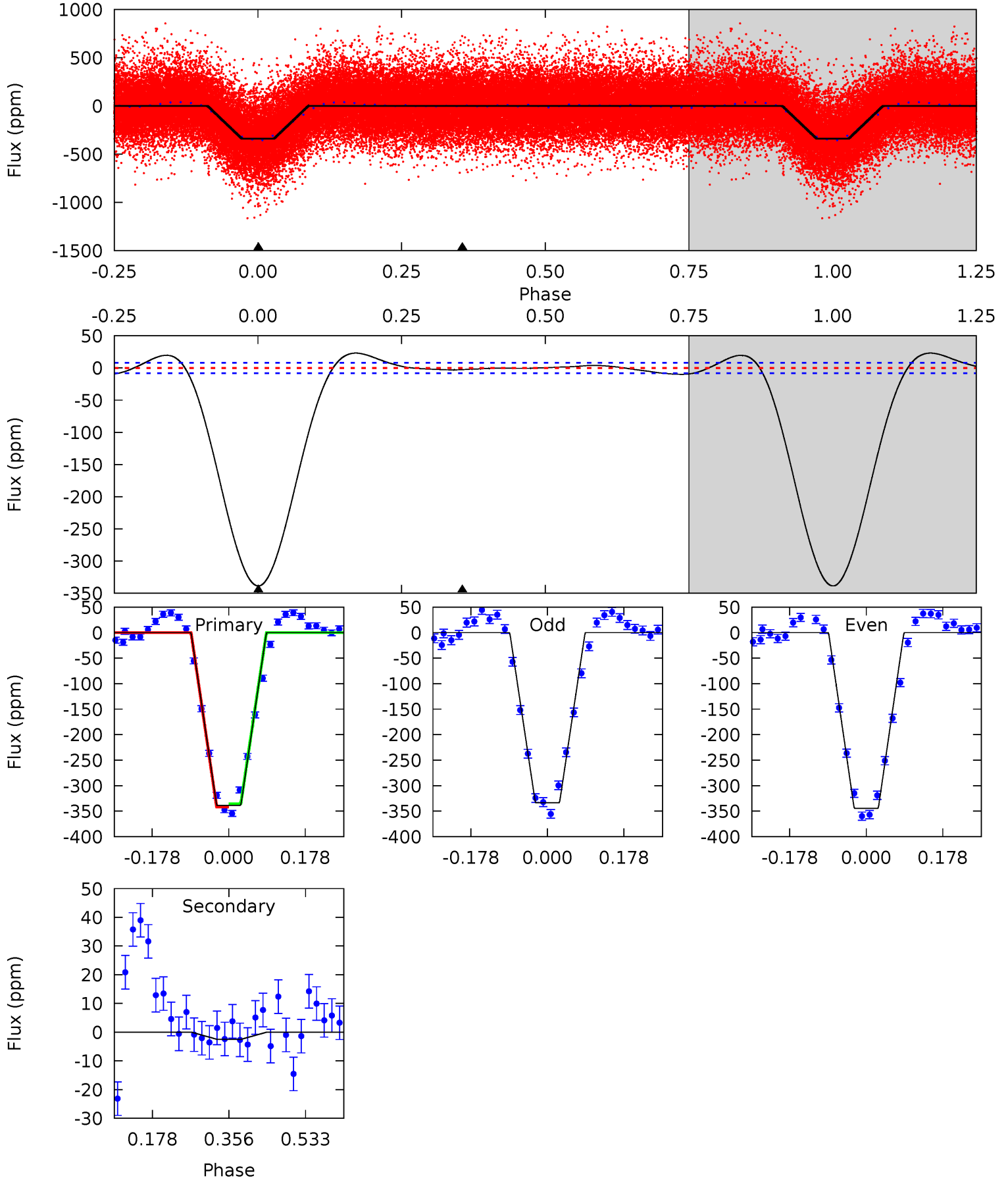
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.5	8.24	7.29	4.03	4.53	1.56	4.34	10.2	13.4	0.96	4.21	0.48	1.22	0.36	2.39



Alt Model-Shift Uniqueness Test

006881709-01, P = 6.741334 Days, E = 129.881395 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
185.9	1.37	0	0	4.44	1.35	3.37	185.9	185.9	1.37	1.37	2.94	1.01	0.06	1.75



Stellar Parameters For KIC 006881709

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6010^{+161}_{-179}	$4.406^{+0.139}_{-0.186}$	$-0.520^{+0.300}_{-0.300}$	$0.962^{+0.246}_{-0.144}$	$0.861^{+0.108}_{-0.072}$	$1.360^{+0.854}_{-0.642}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-15%	+13%/-8%	+63%/-47%
Source	PHO1	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006881709-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-20 ± 2	$0.72^{+0.15}_{-0.12}$	1415^{+105}_{-84}	4967^{+371}_{-315}	93^{+42}_{-31}
Alt.	-2 ± 2	$1.97^{+0.30}_{-0.21}$	1418^{+98}_{-82}	2511^{+215}_{-529}	$1.497^{+1.201}_{-1.043}$

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 $A_{obs} \gg 1.0$

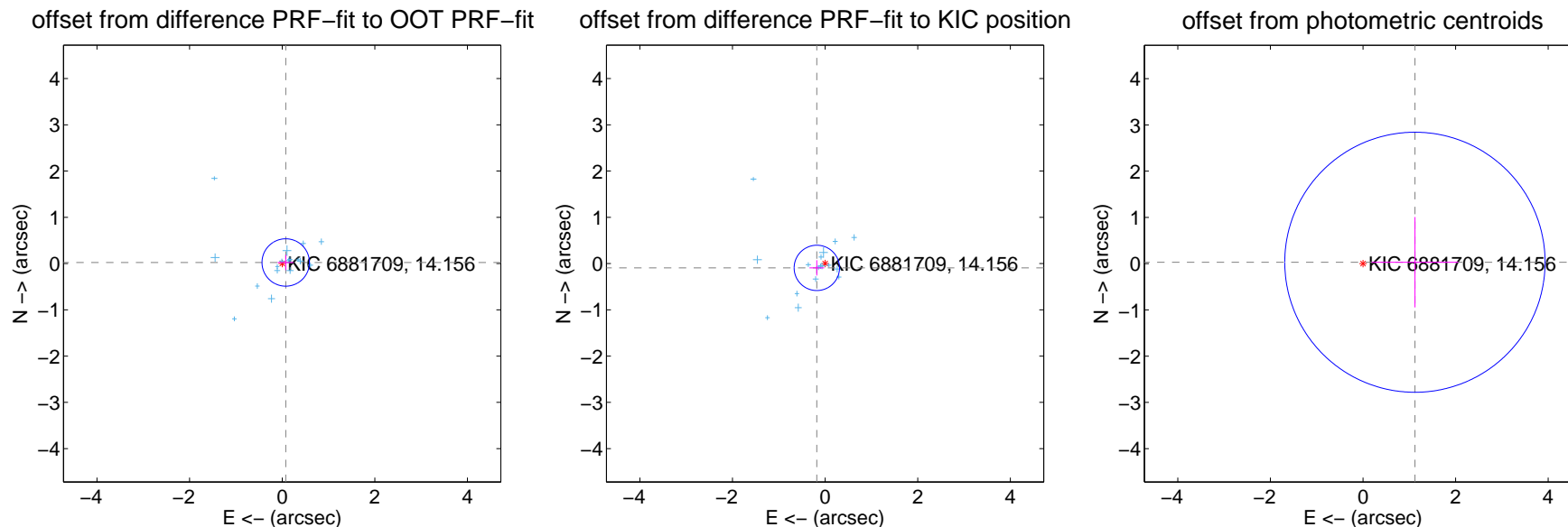
DV Centroid Data

Supplemental centroid analysis for 006881709-01. Kepler magnitude: 14.16. Transit SNR 10.25

There are 17 quarters with good PRF difference image offsets

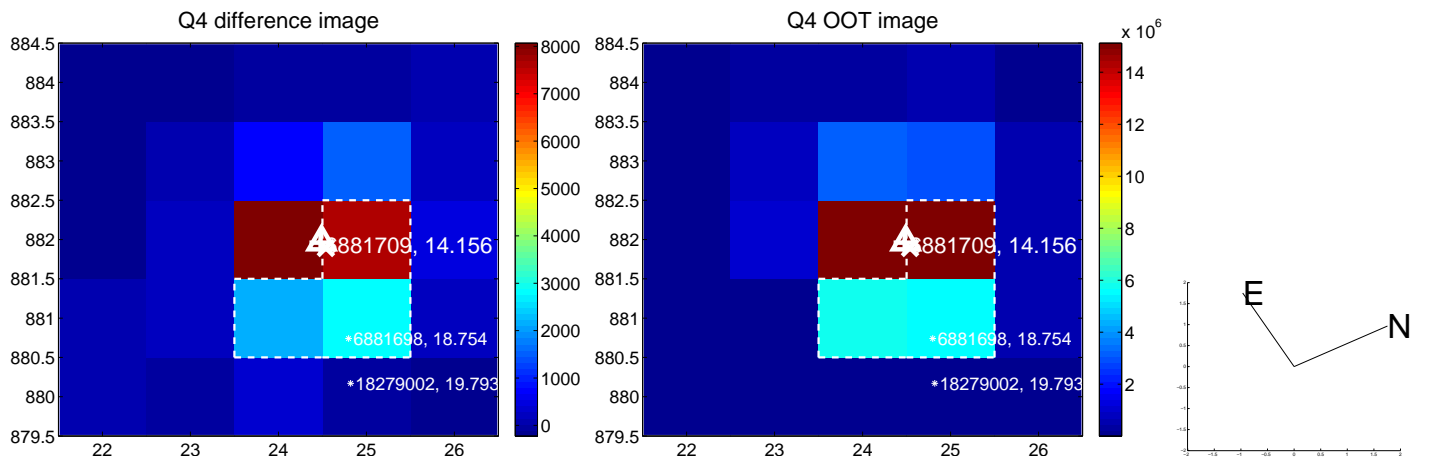
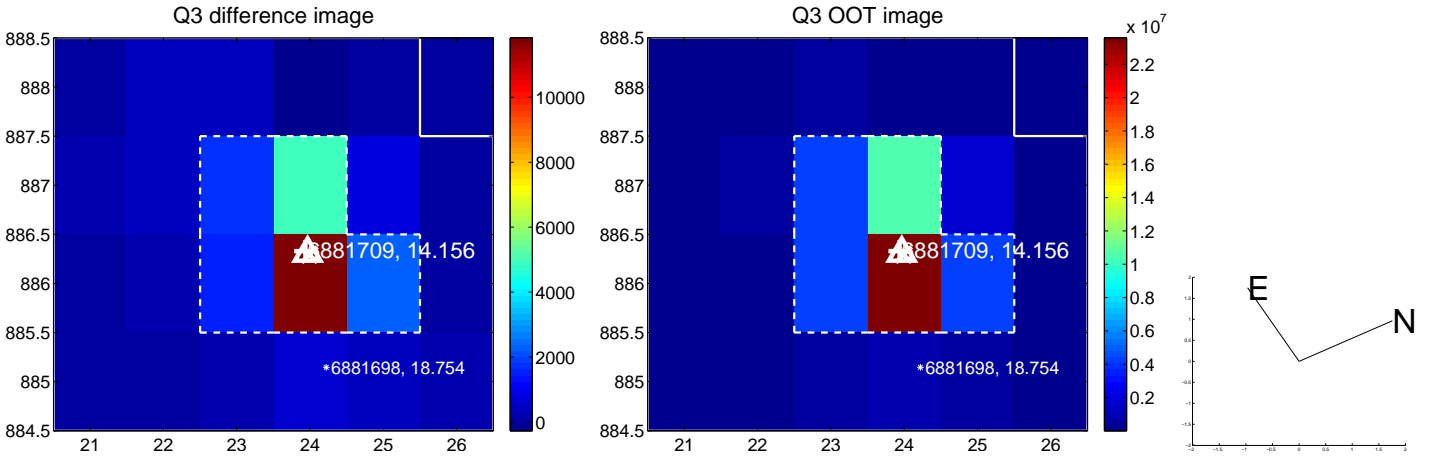
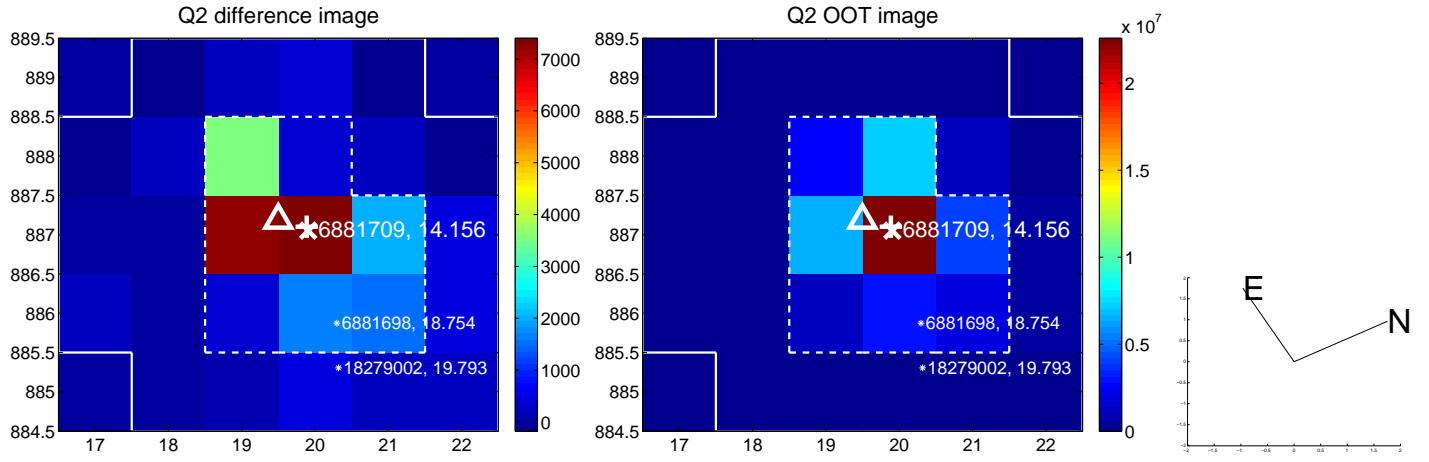
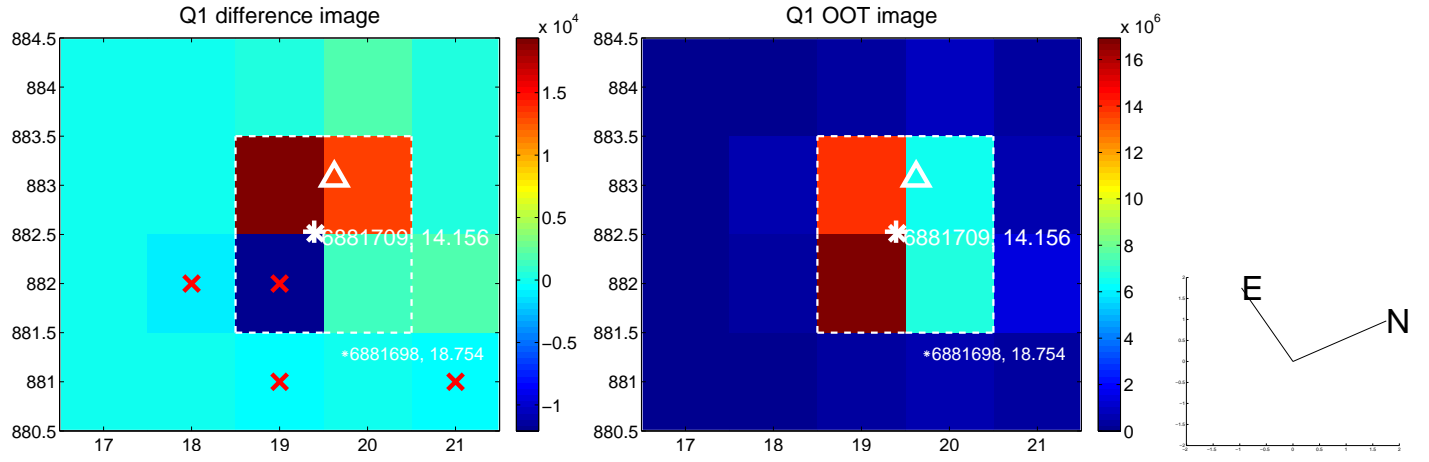
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.080 ± 0.171	0.47	-0.076 ± 0.173	0.024 ± 0.165
PRF-fit source offset from KIC position	0.202 ± 0.163	1.24	0.179 ± 0.160	-0.093 ± 0.166
photometric centroid source offset	1.12 ± 0.94	1.20	-1.12 ± 0.94	0.03 ± 0.98

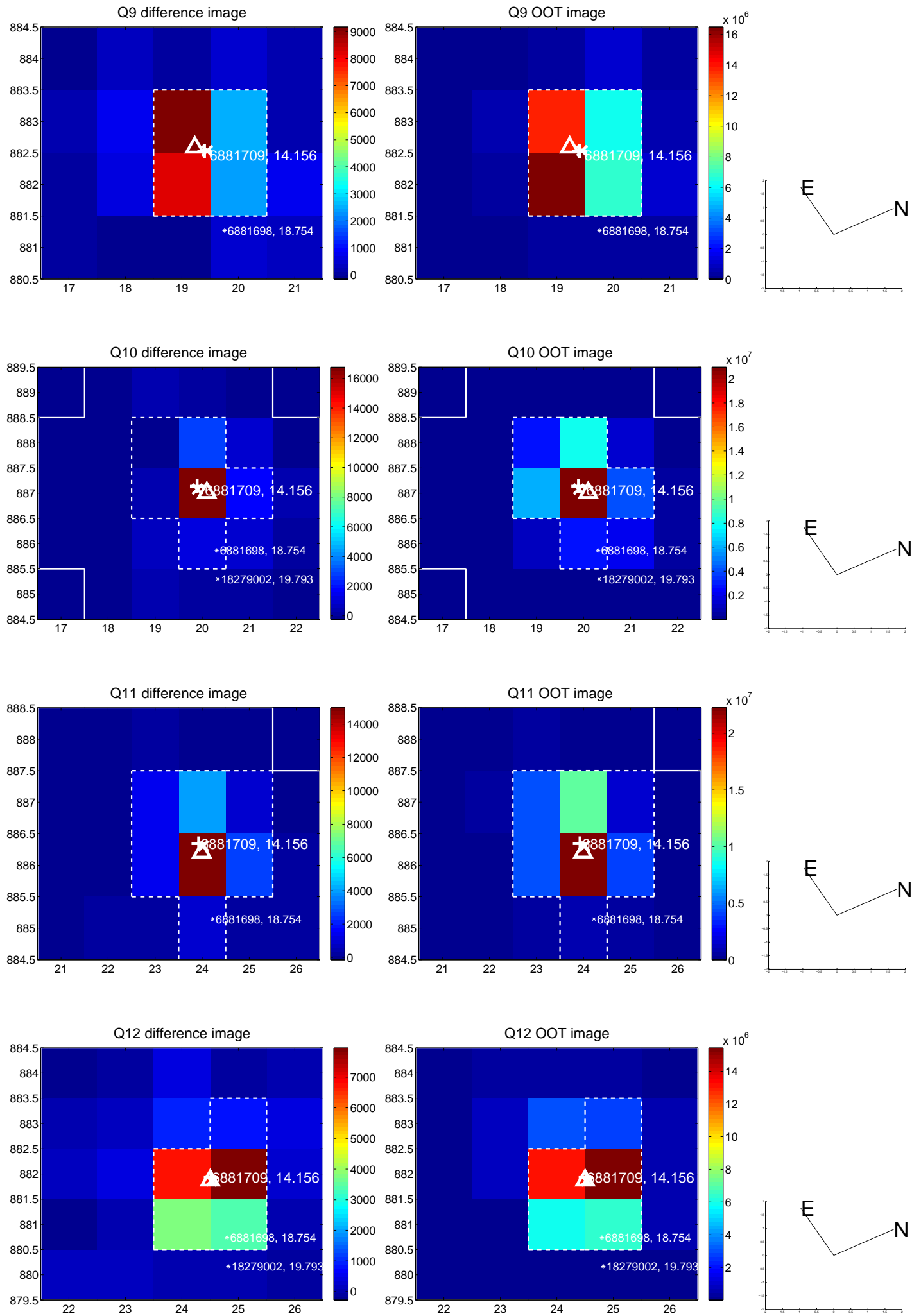


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

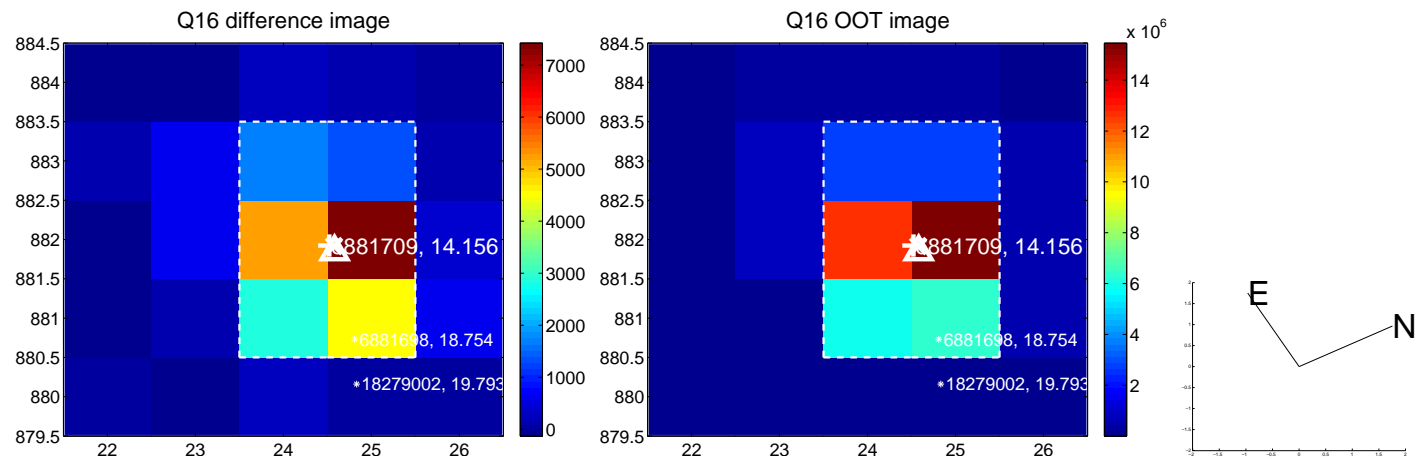
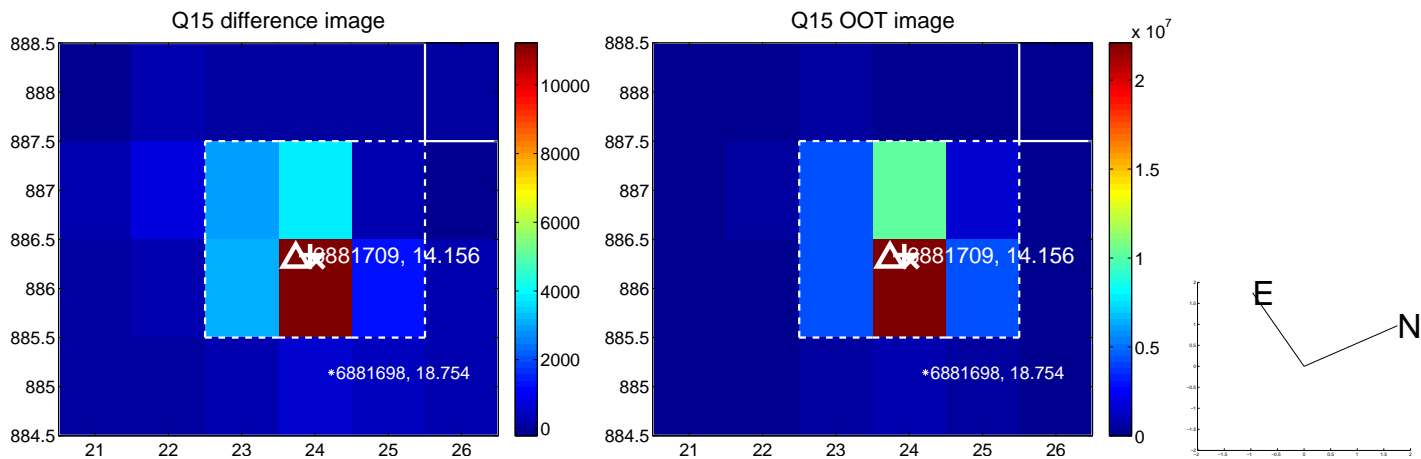
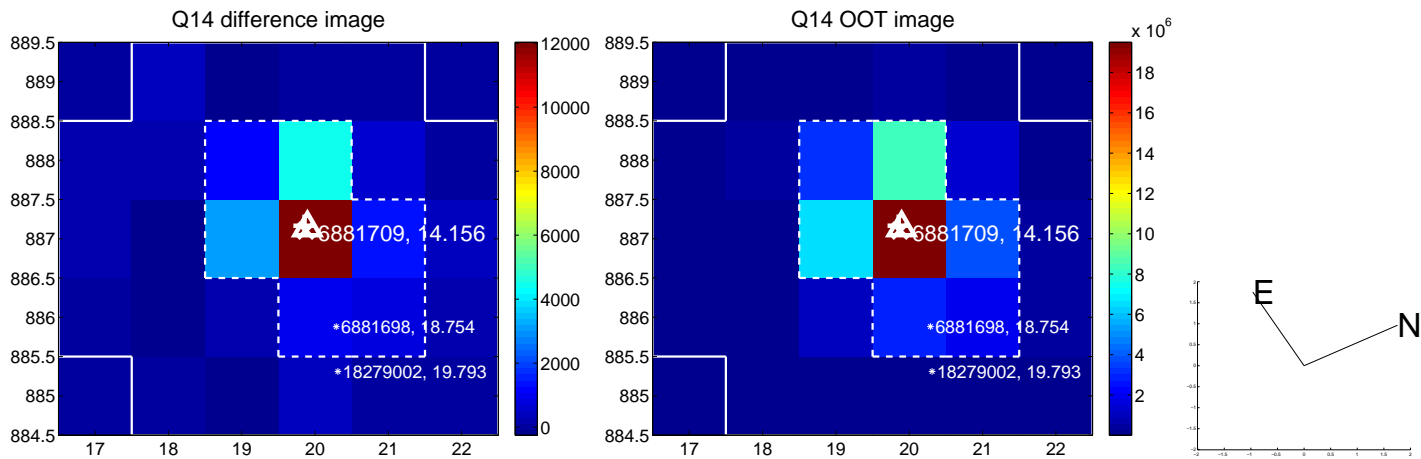
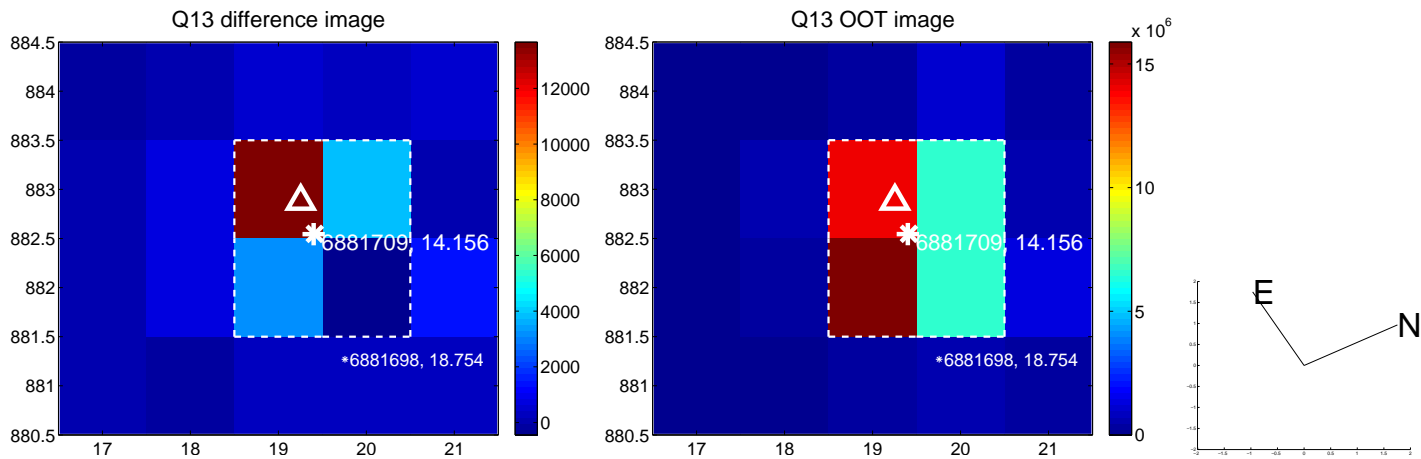
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



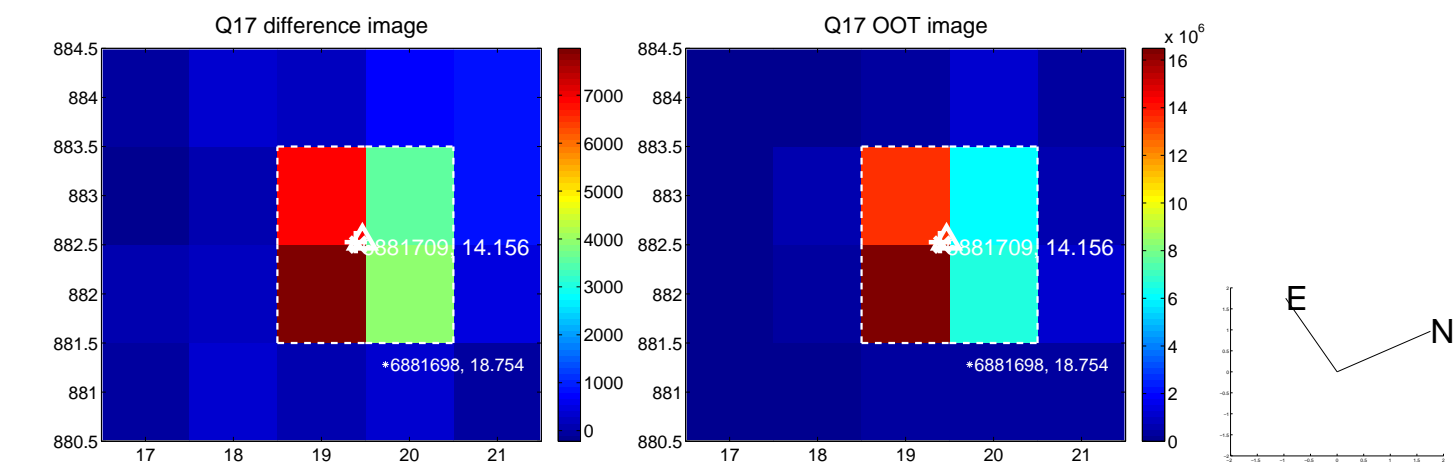
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



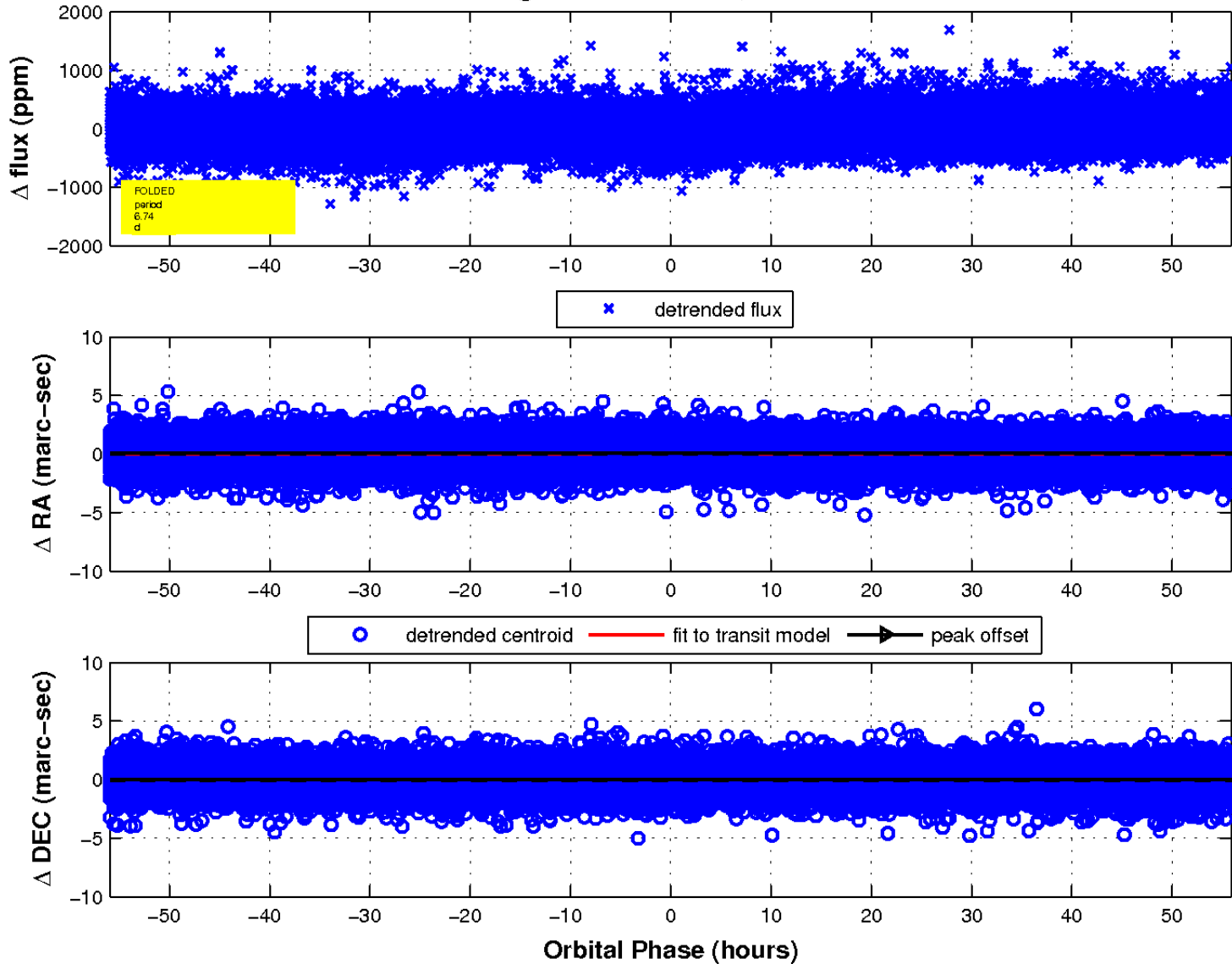
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

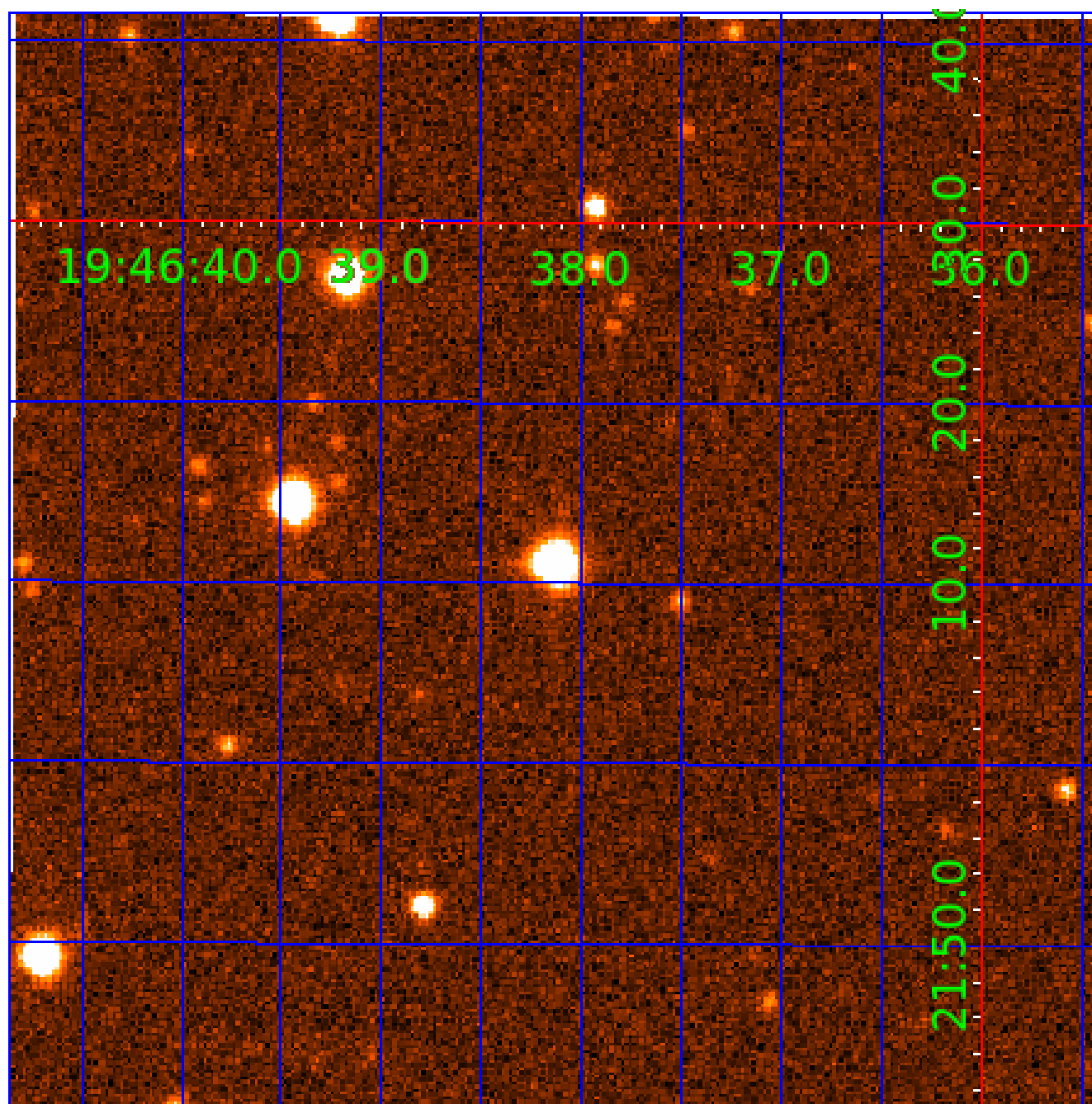


fluxWeightedCentroids, Planet 1 of 3



UKIRT Image

Declination



KIC 006881709

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})
006881709-01	OBS	No	6.741445	136.591543	39.2	18.646	12.6	10.3	0.96	6010	0.71	245.19
006881709-02	OBS	No	2.696211	132.235802	0.0	2.807	9.4	0.0	0.96	6010	0.01	832.09
006881709-03	OBS	No	2.696995	132.548668	7.0	28.568	8.9	2.3	0.96	6010	0.25	831.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006881709-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006881709-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006881709-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

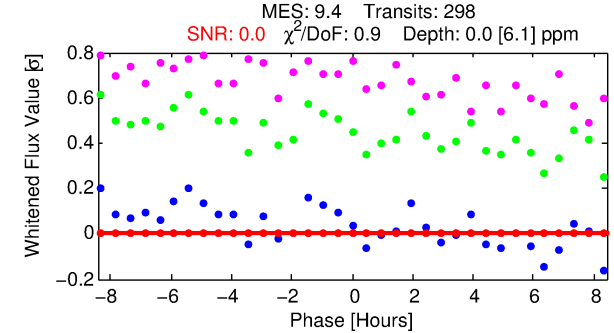
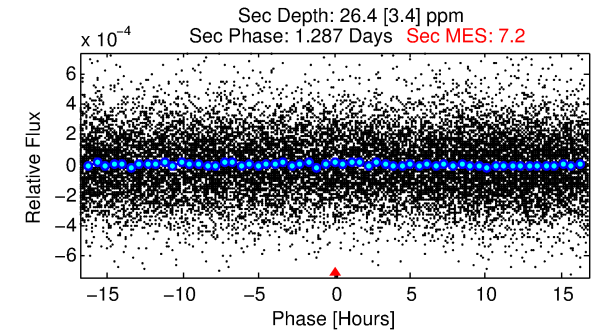
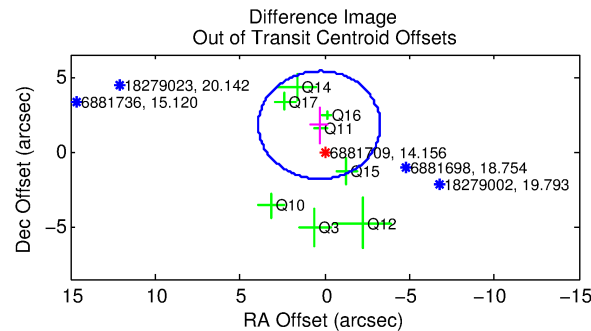
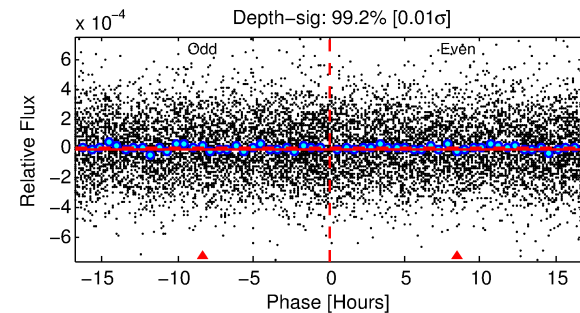
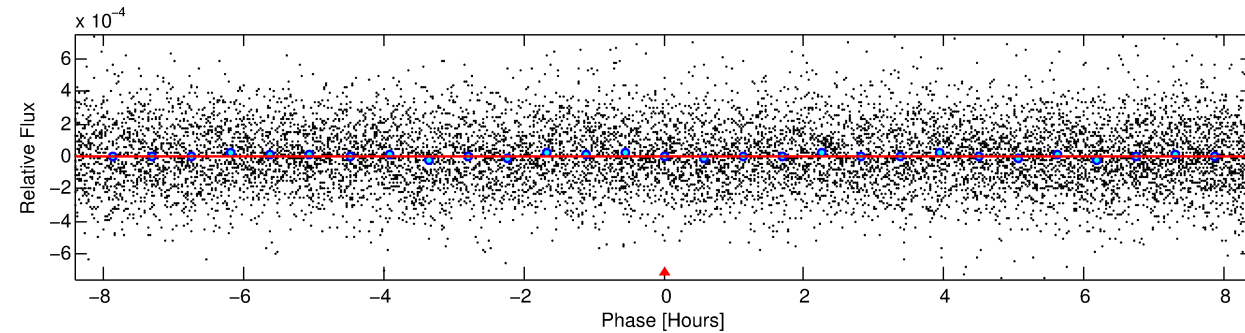
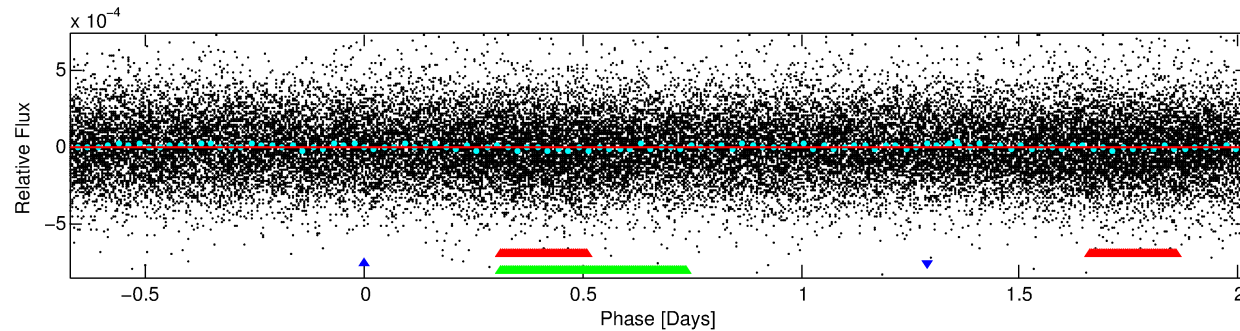
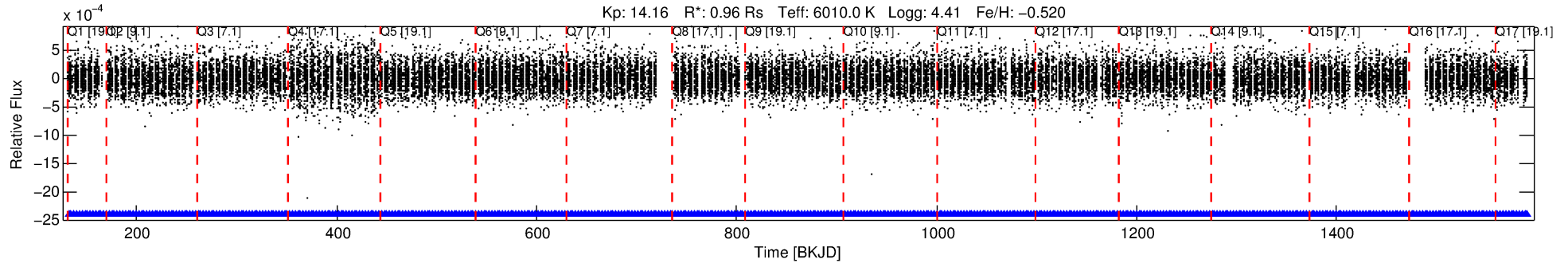
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006881709-02

No Significant Match Found

DV One-Page Summary

KIC: 6881709 Candidate: 2 of 3 Period: 2.696 d



DV Fit Results:

Period = 2.69621 [0.38024] d
Epoch = 132.2358 [83.5392] BKJD
Rp/R* = 0.0001 [0.0702]
a/R* = 1.87 [693.07]
b = 0.98 [36.40]
Seff = 832.09 [332.98]
Teq = 1370 [137] K
Rp = 0.01 [7.37] Re
a = 0.0361 [0.0087] AU
Ag = 397607.41 [851636555.35] [0.00σ]
Teffp = 53171 [28472578] K [0.00σ]

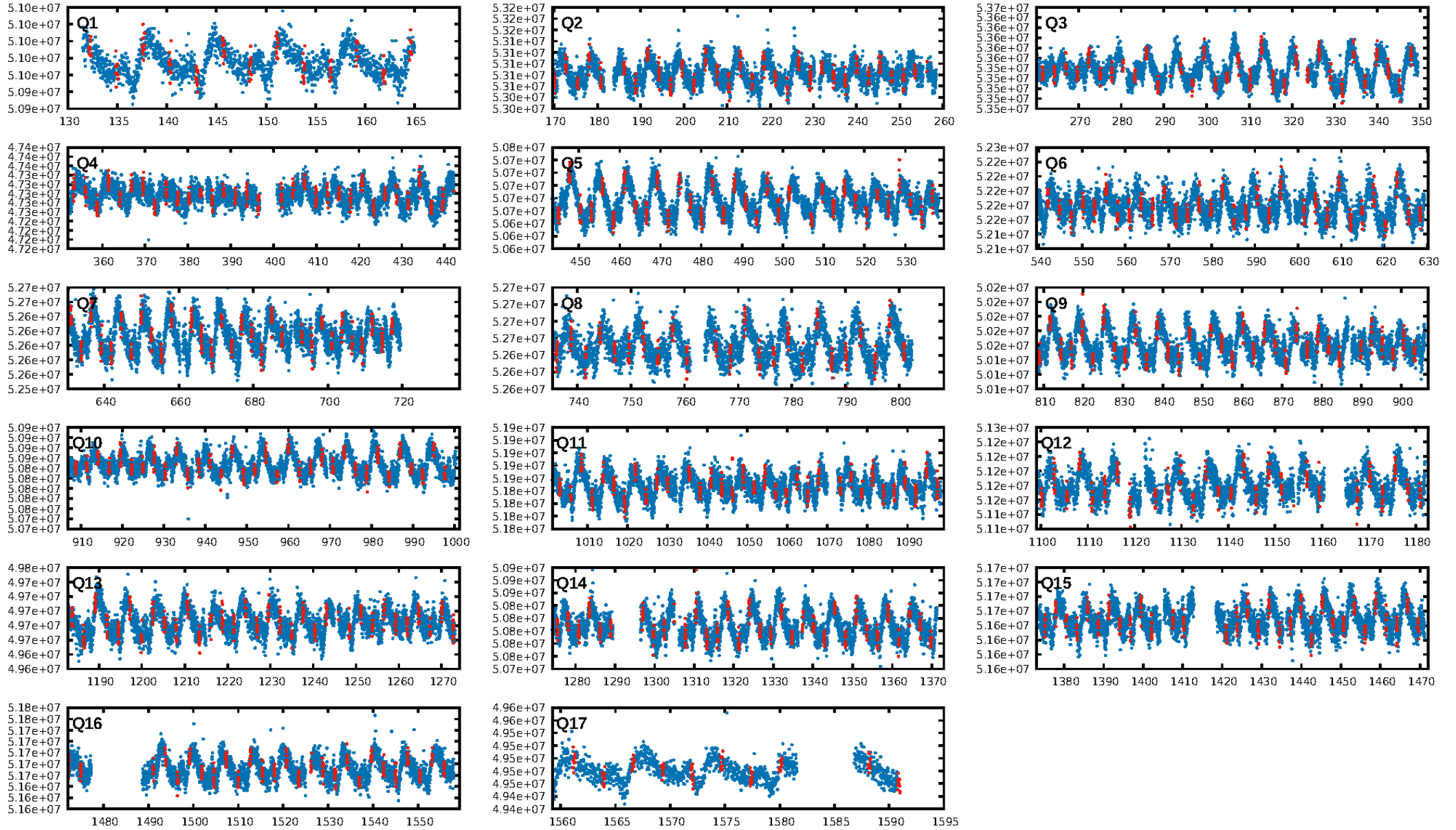
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.1% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [283/283]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.807 arcsec [1.51σ]
KicOffset-rm: 1.708 arcsec [1.32σ]
OotOffset-st: 2/3/2/1 [8]
KicOffset-st: 2/3/2/1 [8]
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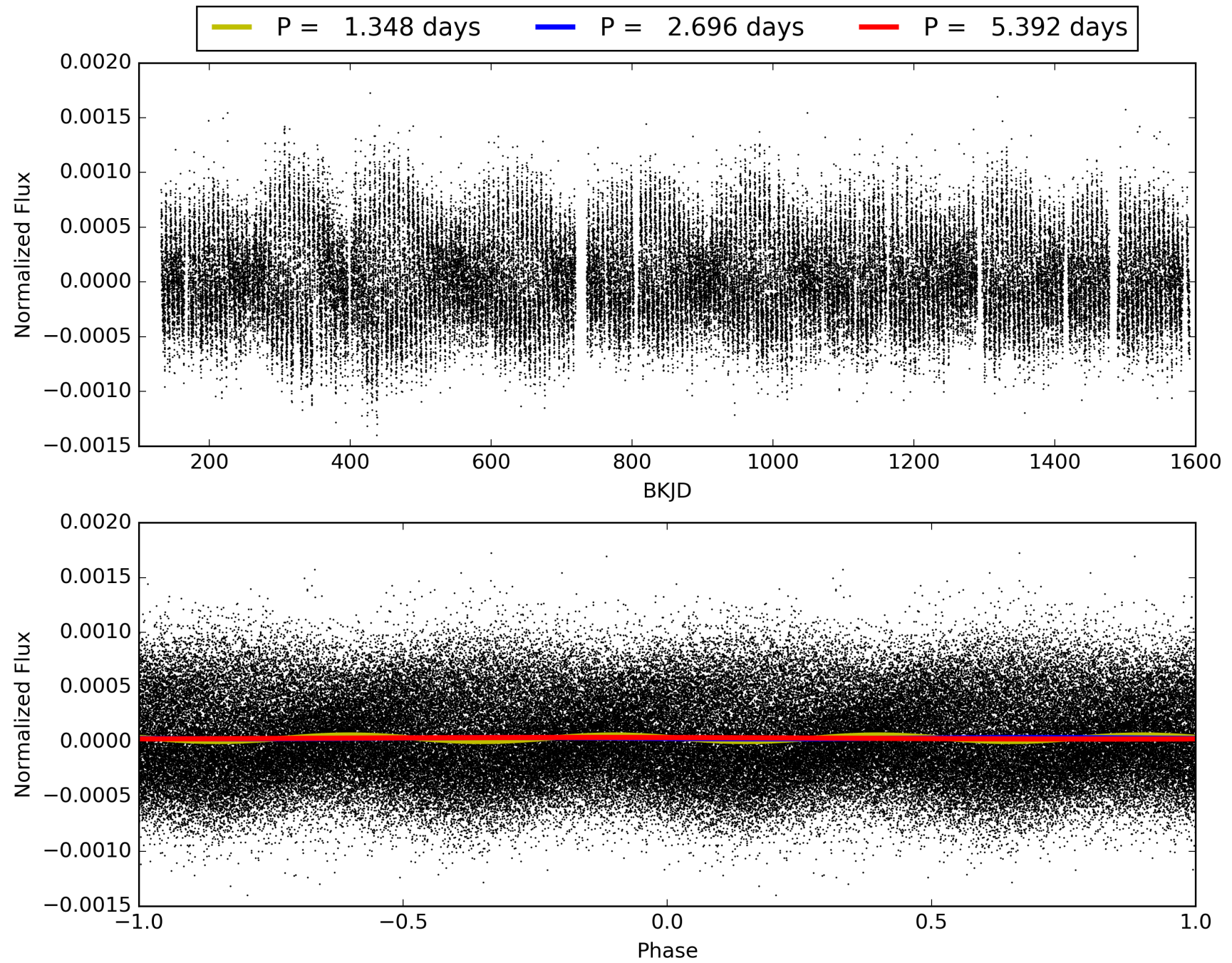
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 01:36:42 Z

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

TCE 006881709-02, PDC Light Curves

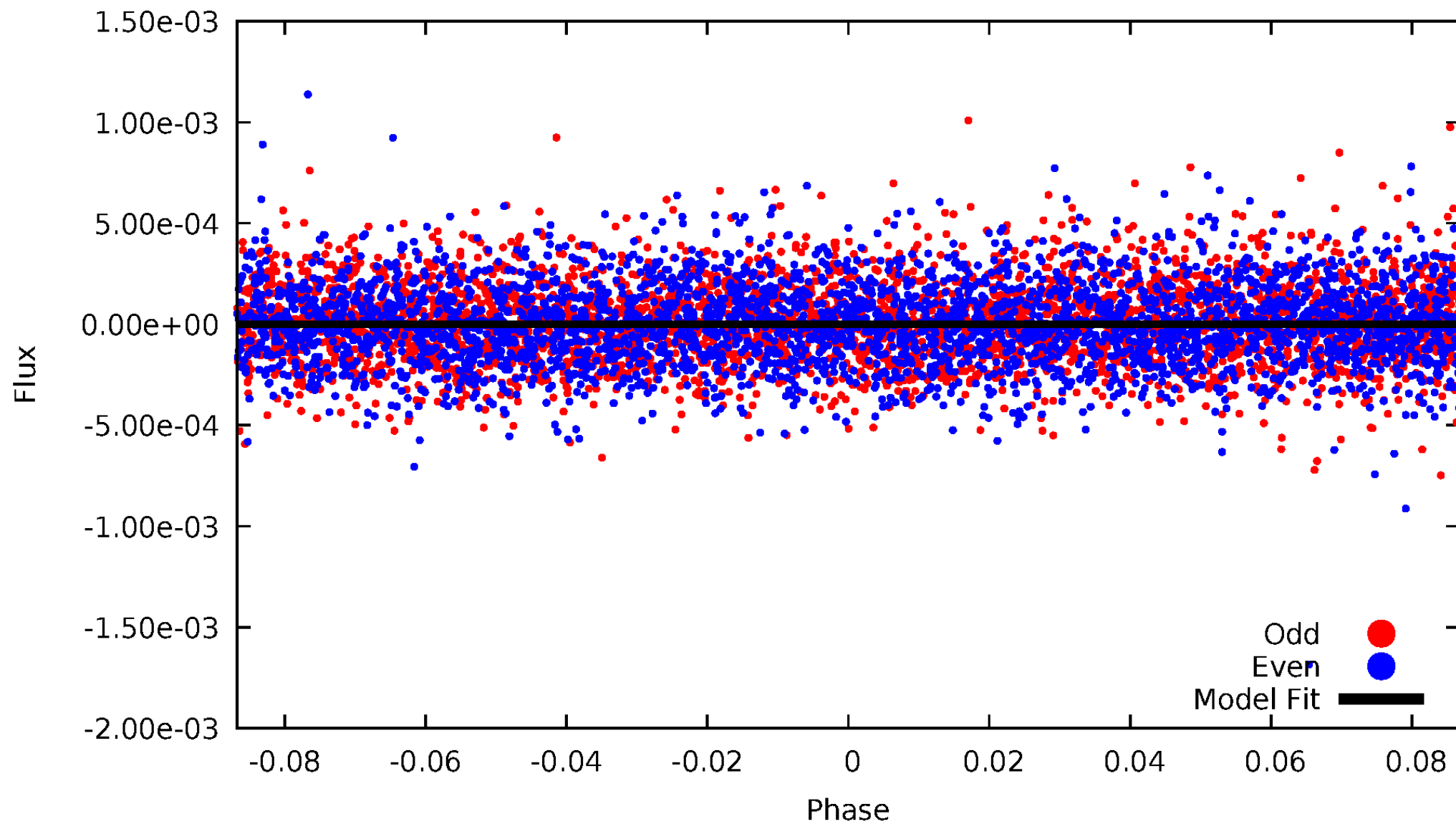


TCE 006881709-02



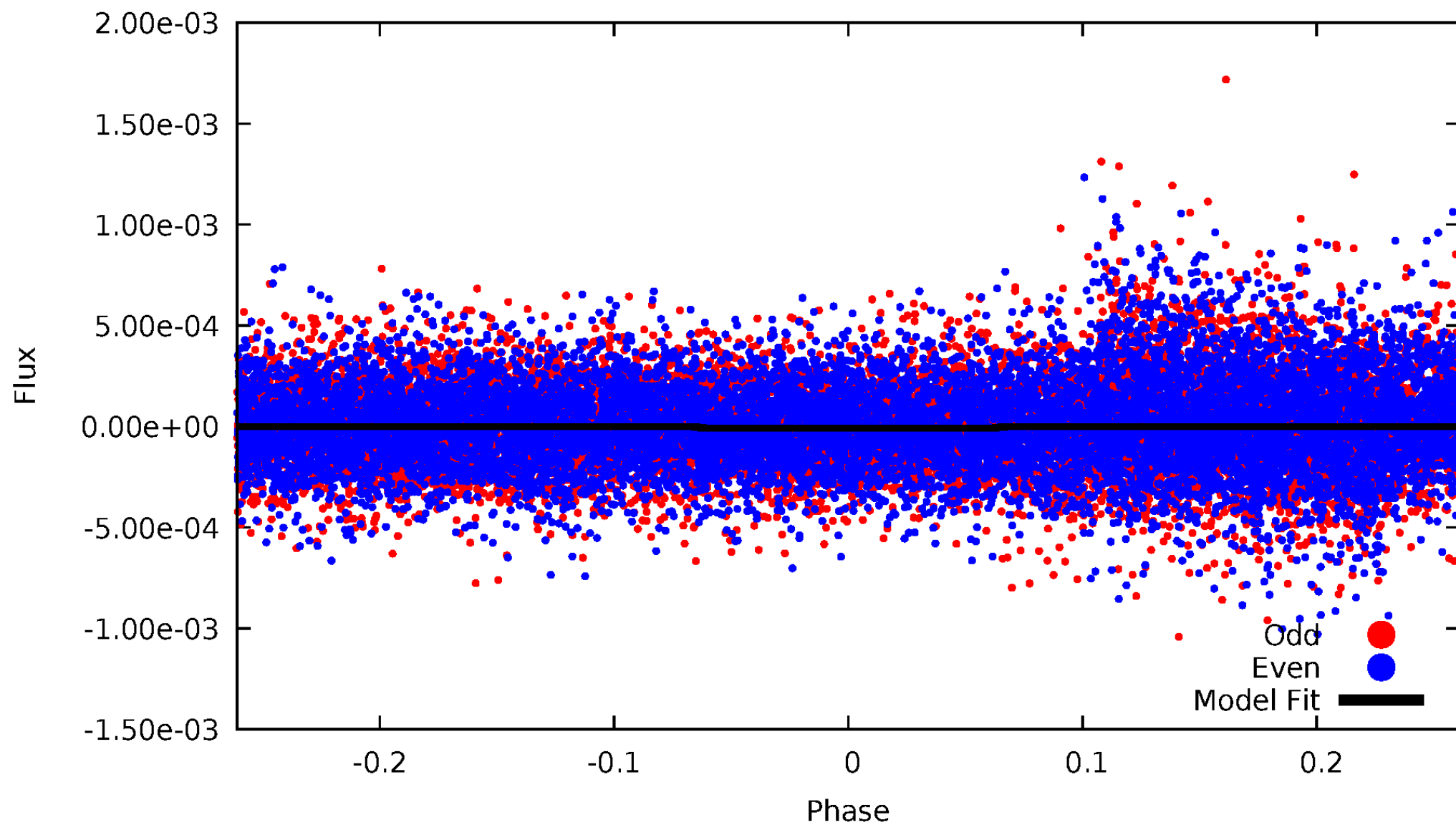
DV Odd/Even

TCE 006881709-02



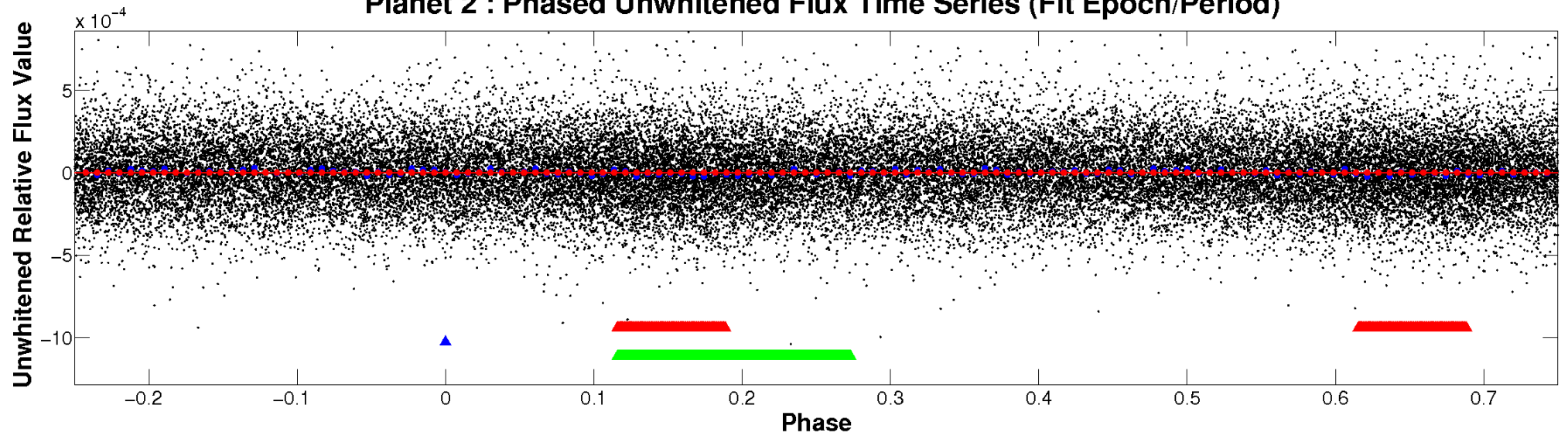
ALT Odd/Even

TCE 006881709-02

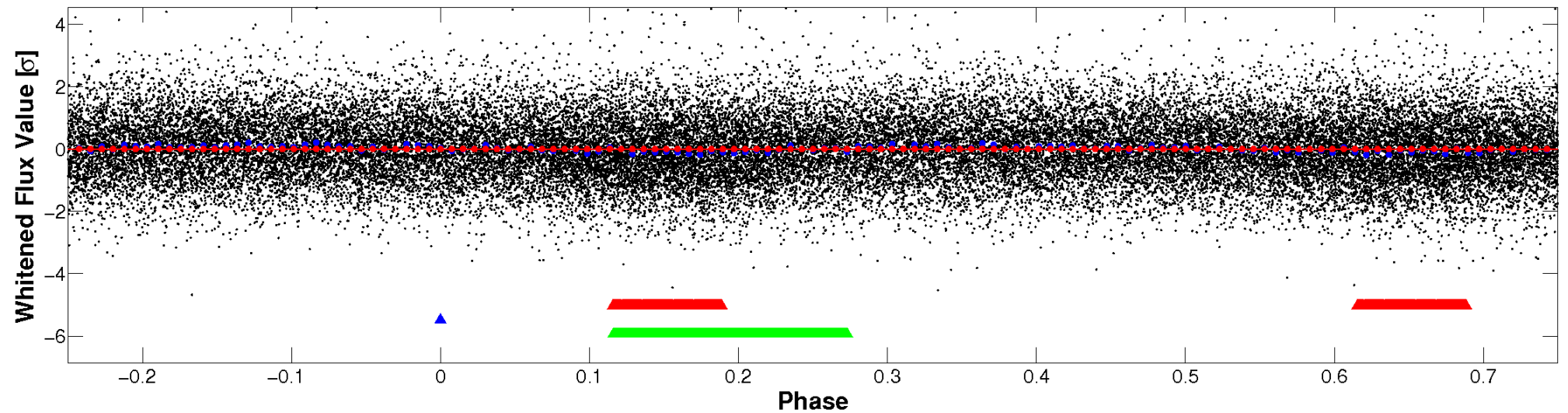


Non-Whitened Vs. Whitened Light Curve

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

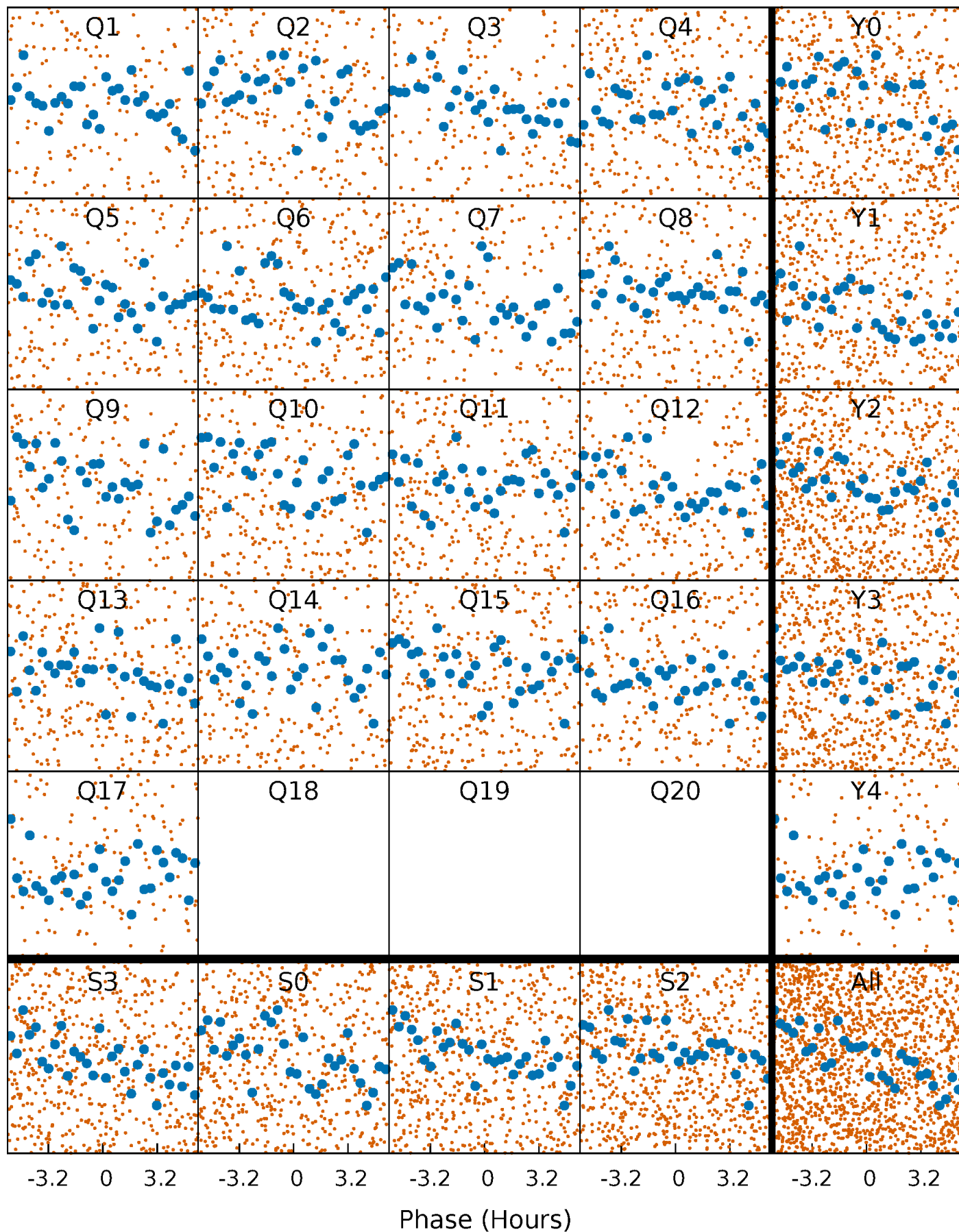


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



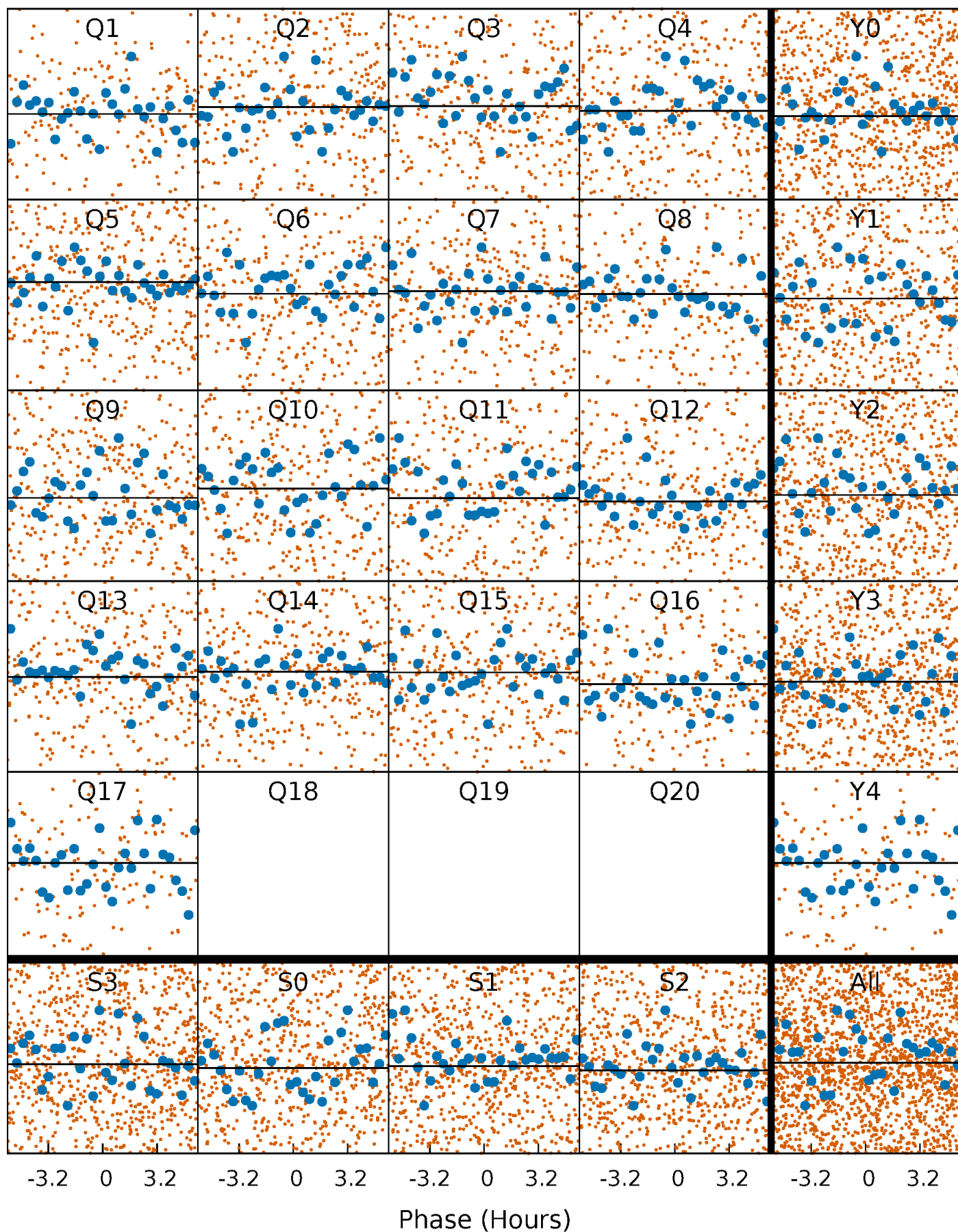
PDC Quarter-Phased Transit Curves

TCE 006881709-02 P= 2.696211 Days $T_0=132.235802$ (BKJD)



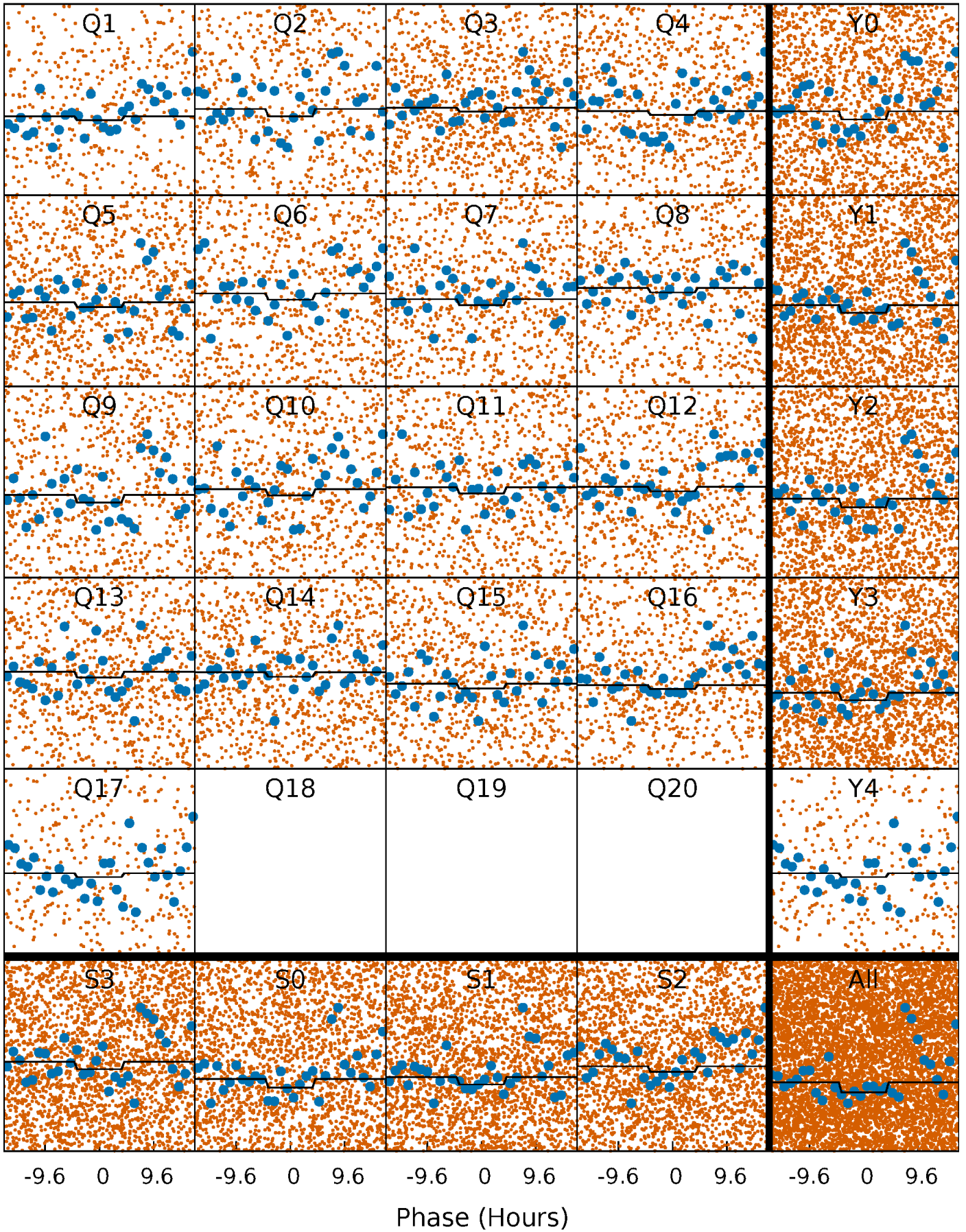
DV Quarter-Phased Transit Curves

TCE 006881709-02 P= 2.696211 Days $T_0=132.235802$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

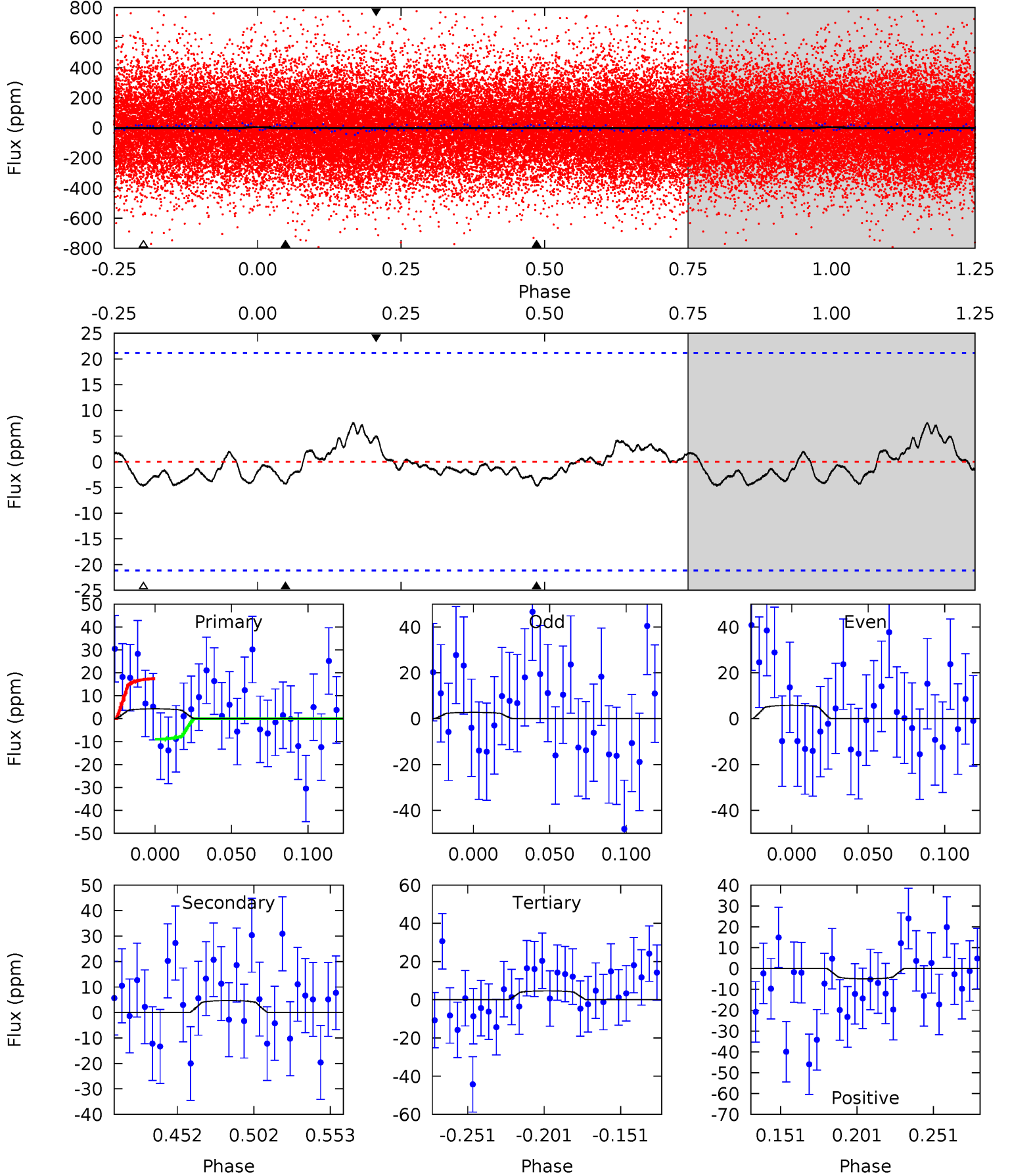
TCE 006881709-02 P= 2.696531 Days $T_0=132.105900$ (BKJD)



DV Model-Shift Uniqueness Test

006881709-02, P = 2.696211 Days, E = 129.539591 Days

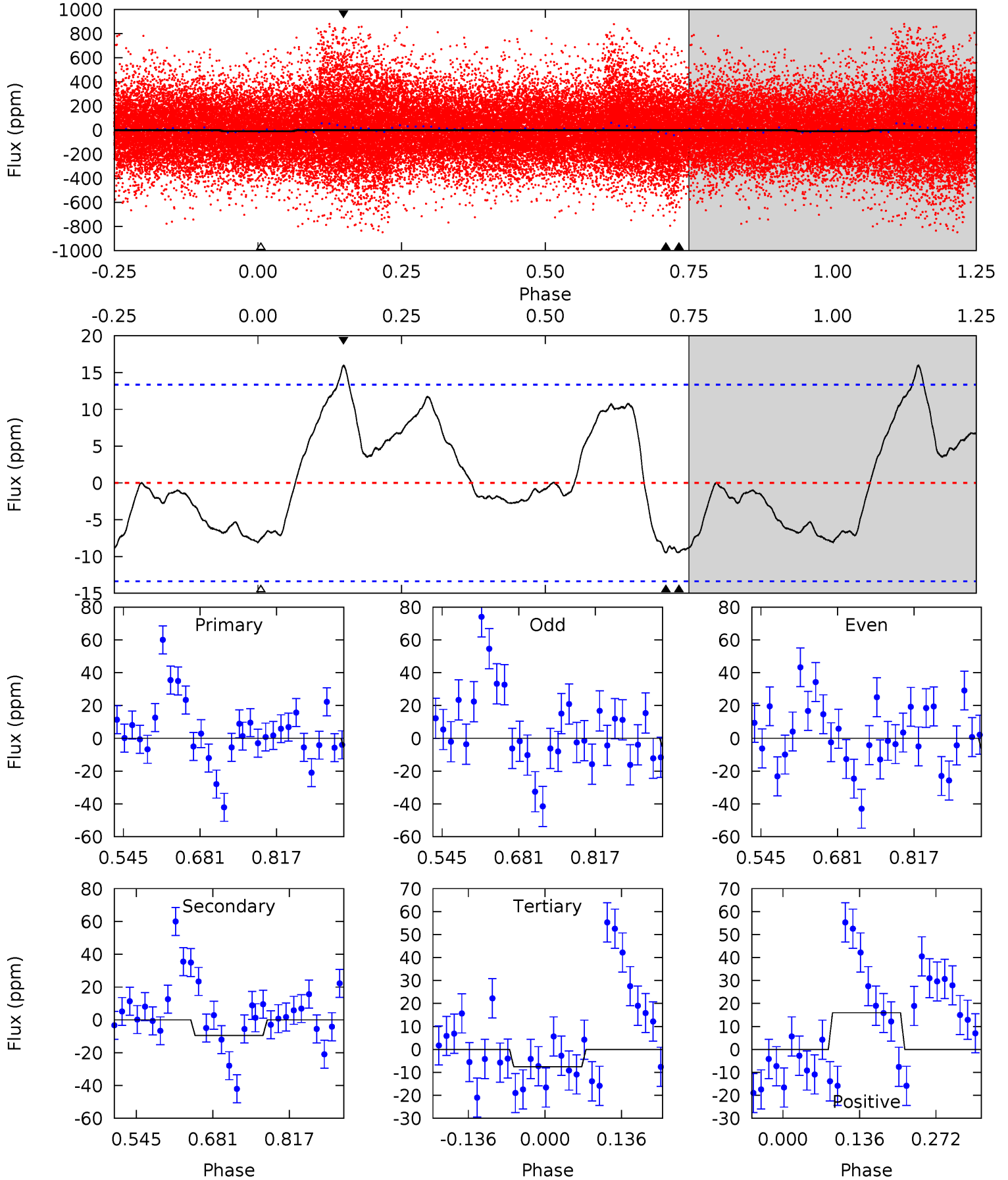
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.96	1.04	1.04	1.11	4.71	1.96	0.60	-0.08	-0.15	0.01	-0.06	0.35	3.06	0.62	0.95



Alt Model-Shift Uniqueness Test

006881709-02, P = 2.696531 Days, E = 129.409369 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.19	3.19	2.56	5.38	4.50	1.49	2.14	0.63	-2.20	0.64	-2.19	0.35	1.42	0.63	1.26



Stellar Parameters For KIC 006881709

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	ρ_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6010^{+161}_{-179}	$4.406^{+0.139}_{-0.186}$	$-0.520^{+0.300}_{-0.300}$	$0.962^{+0.246}_{-0.144}$	$0.861^{+0.108}_{-0.072}$	$1.360^{+0.854}_{-0.642}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-15%	+13%/-8%	+63%/-47%
Source	PHO1	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006881709-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-5 ± 4	$5.09^{+6.16}_{-3.43}$	1926^{+174}_{-134}	-2321^{+5086}_{-198}	$0.086^{+0.925}_{-0.088}$
Alt.	-9 ± 3	$5.44^{+6.00}_{-3.85}$	1918^{+169}_{-138}	-2080^{+5241}_{-331}	$0.223^{+2.287}_{-0.175}$

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

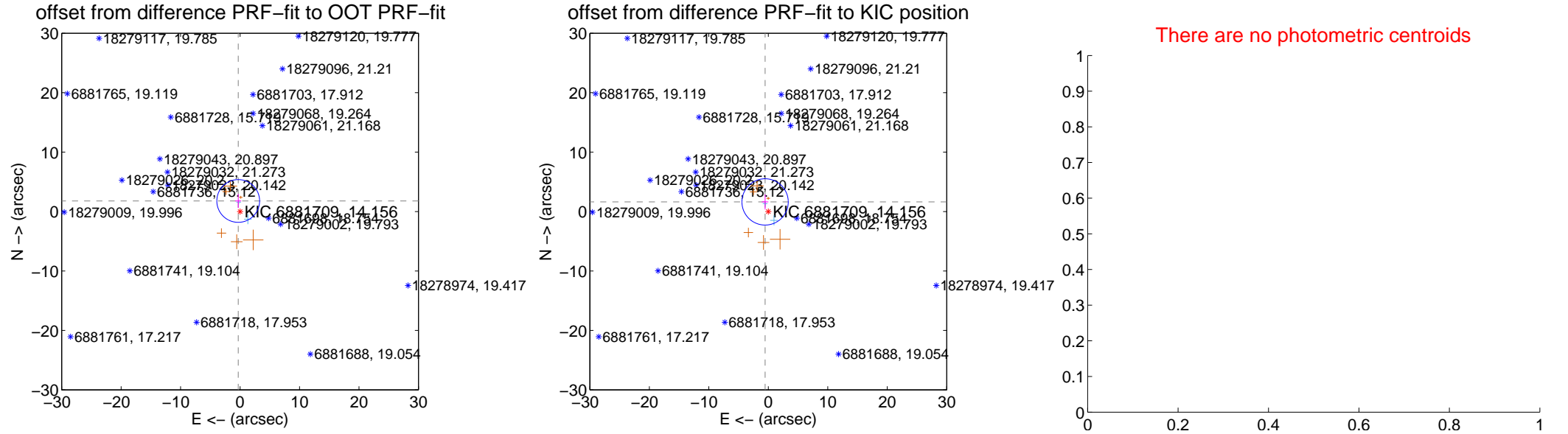
DV Centroid Data

Supplemental centroid analysis for 006881709-02. Kepler magnitude: 14.16. Transit SNR 0.00

There are 2 quarters with good PRF difference image offsets

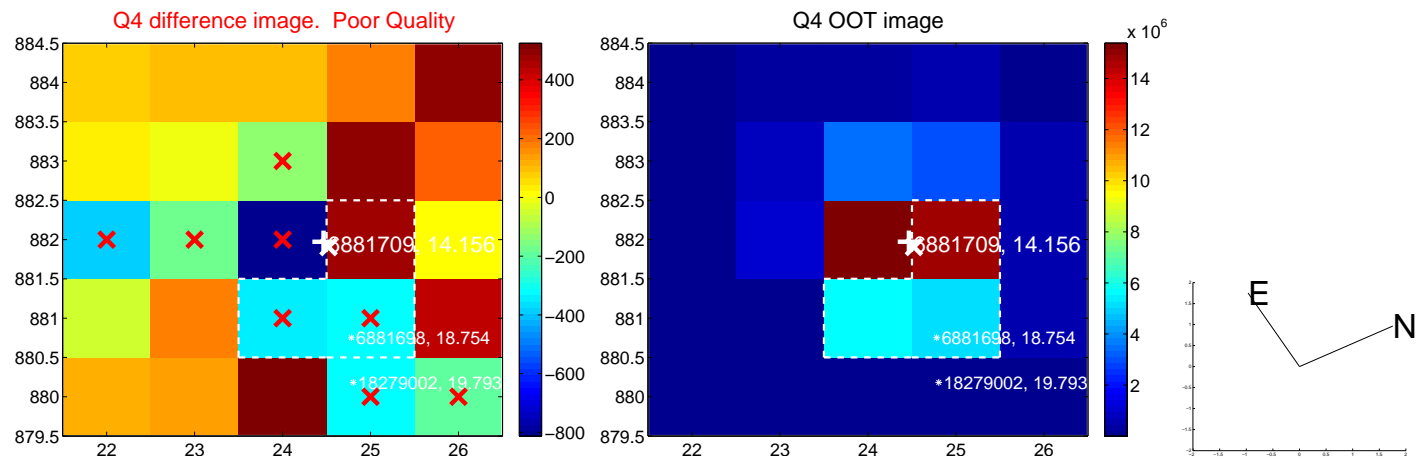
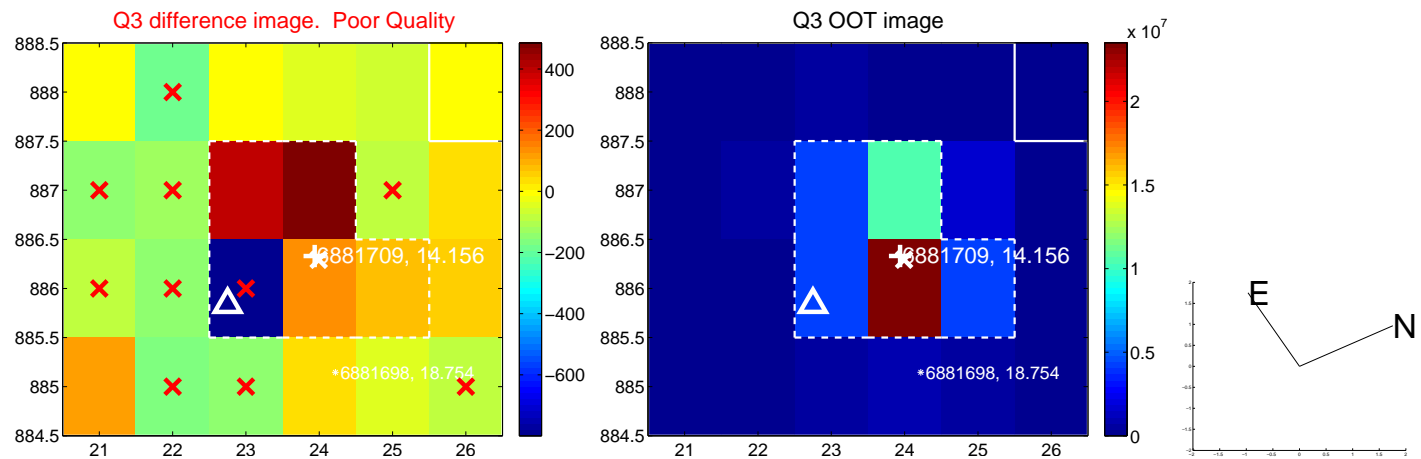
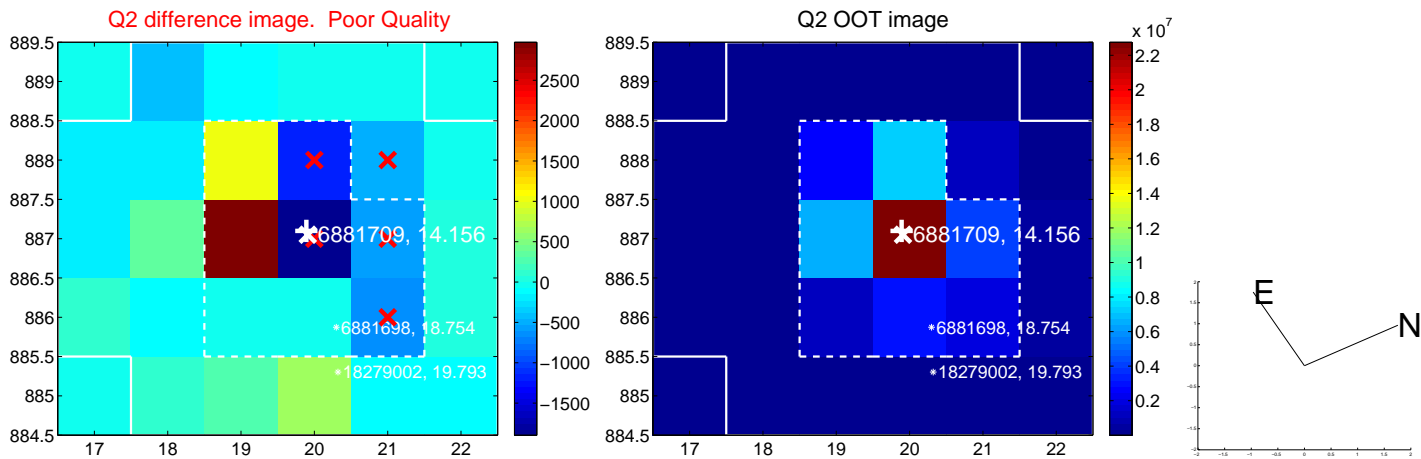
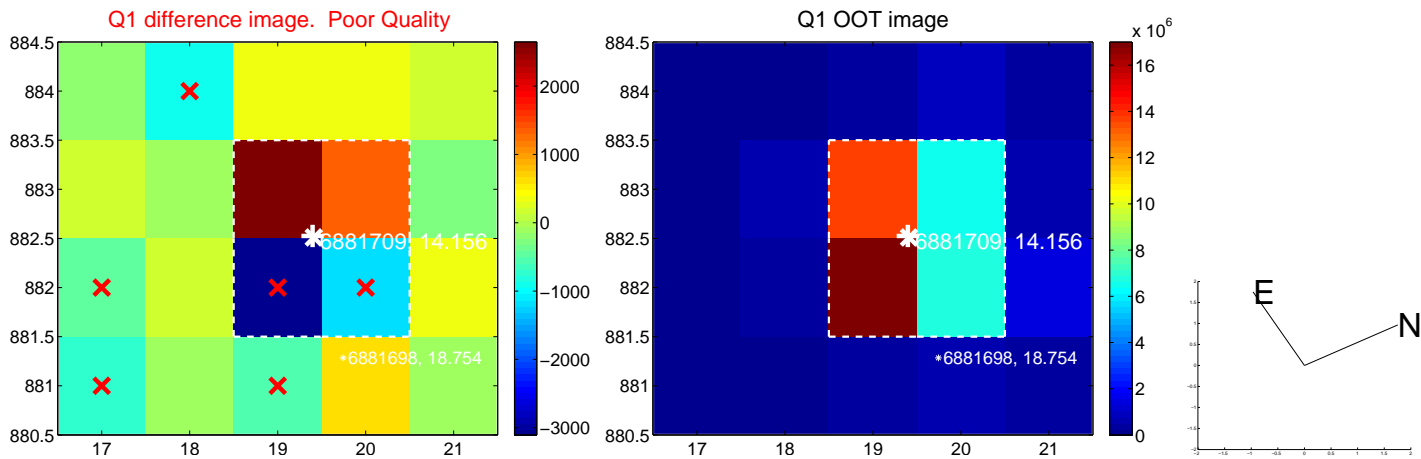
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.807 ± 1.199	1.51	0.312 ± 0.506	1.780 ± 1.193
PRF-fit source offset from KIC position	1.708 ± 1.298	1.32	0.538 ± 0.545	1.621 ± 1.271
photometric centroid source offset	—	—	—	—

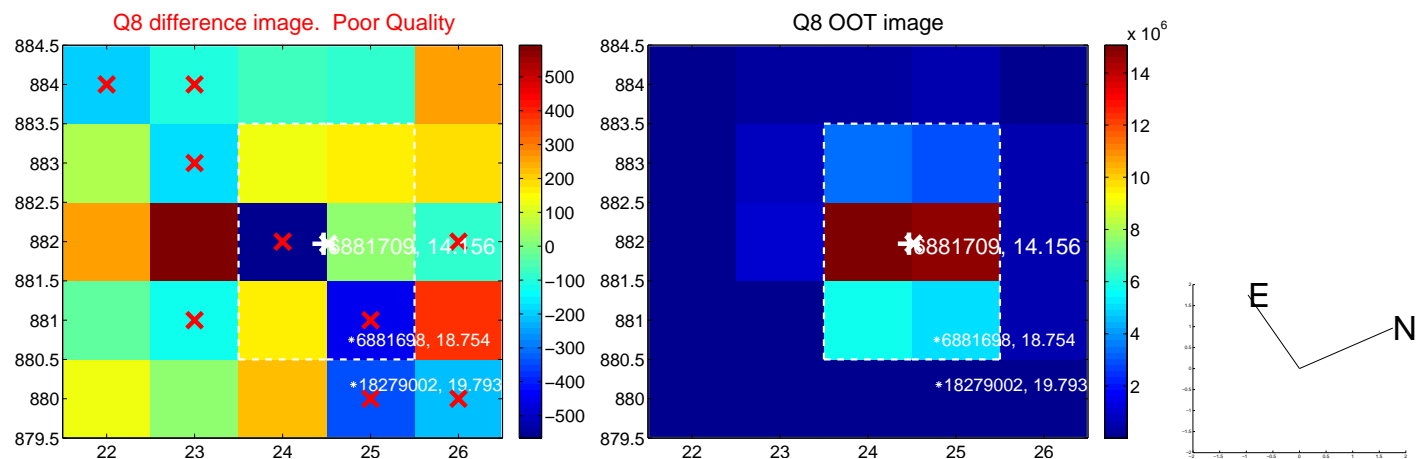
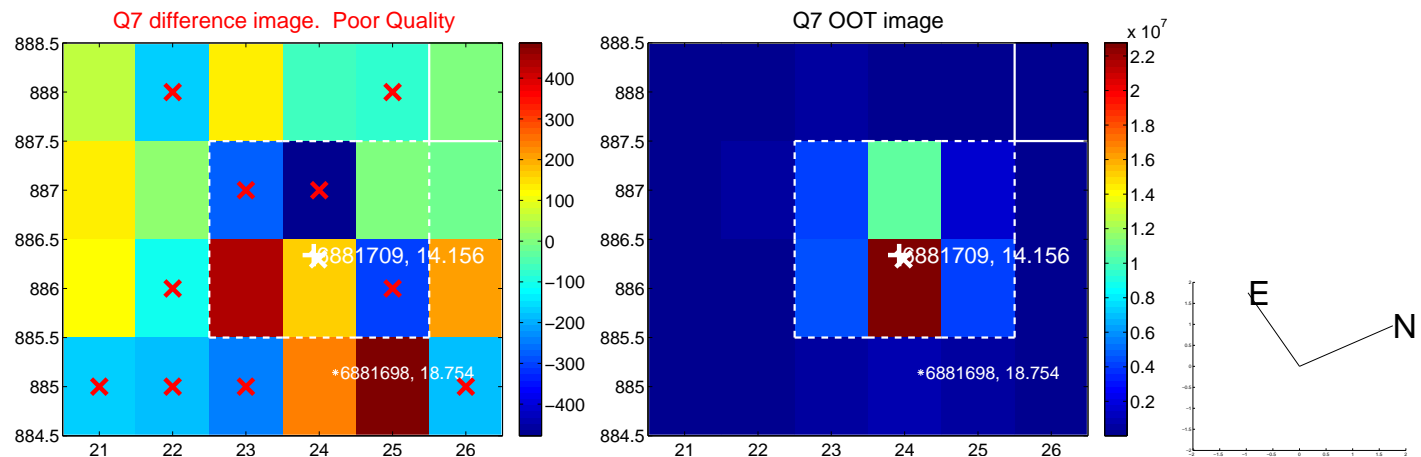
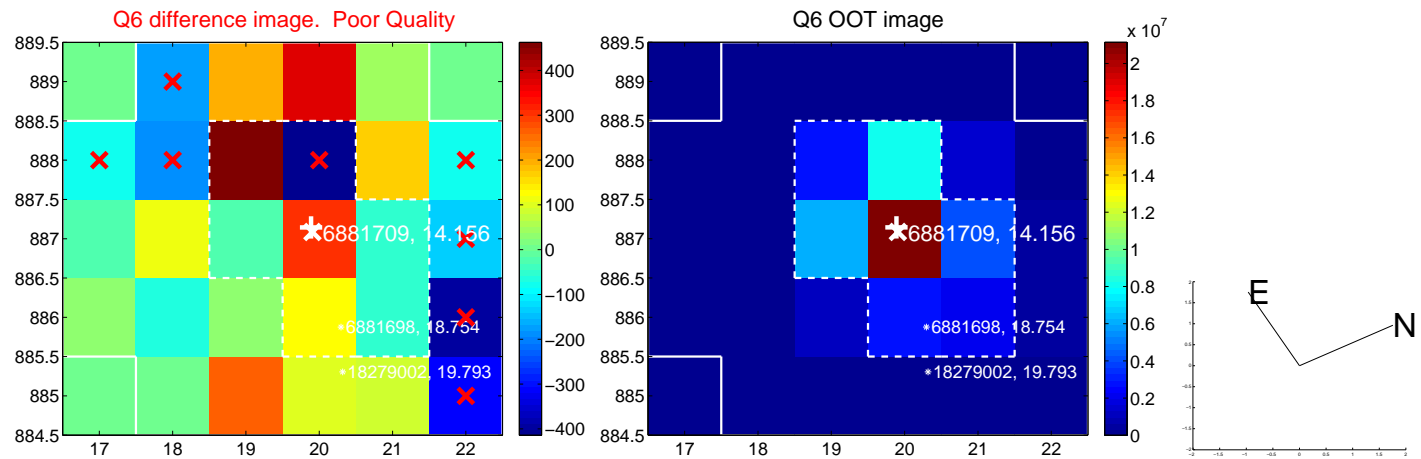
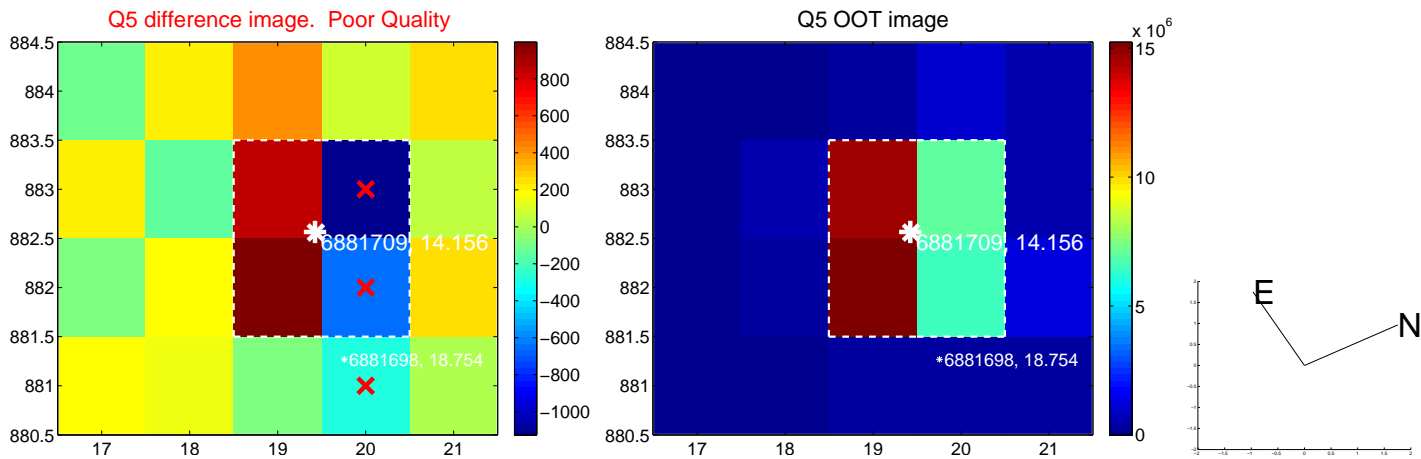


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

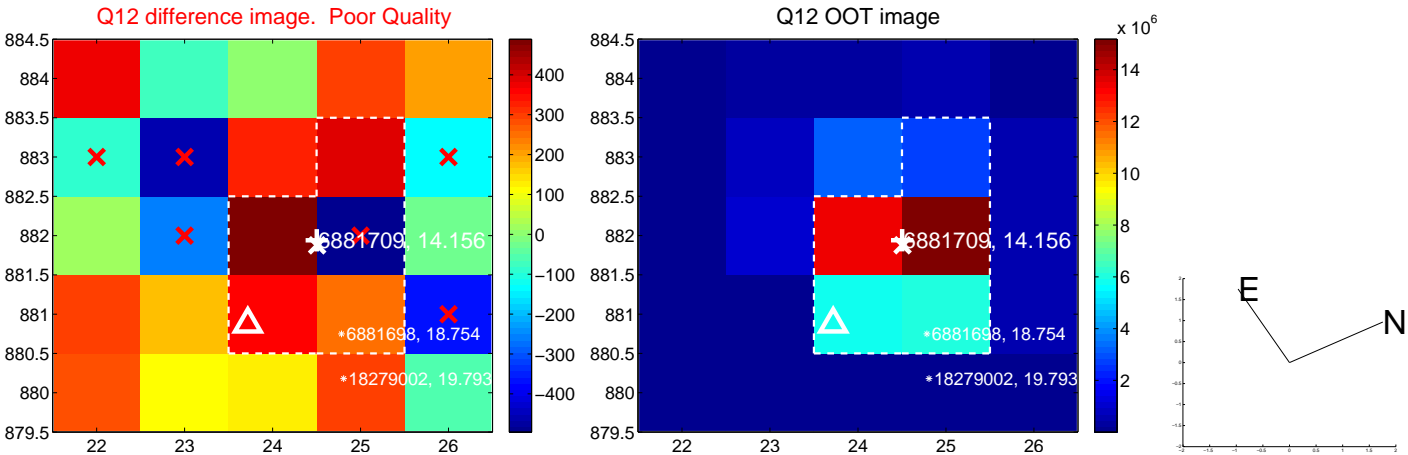
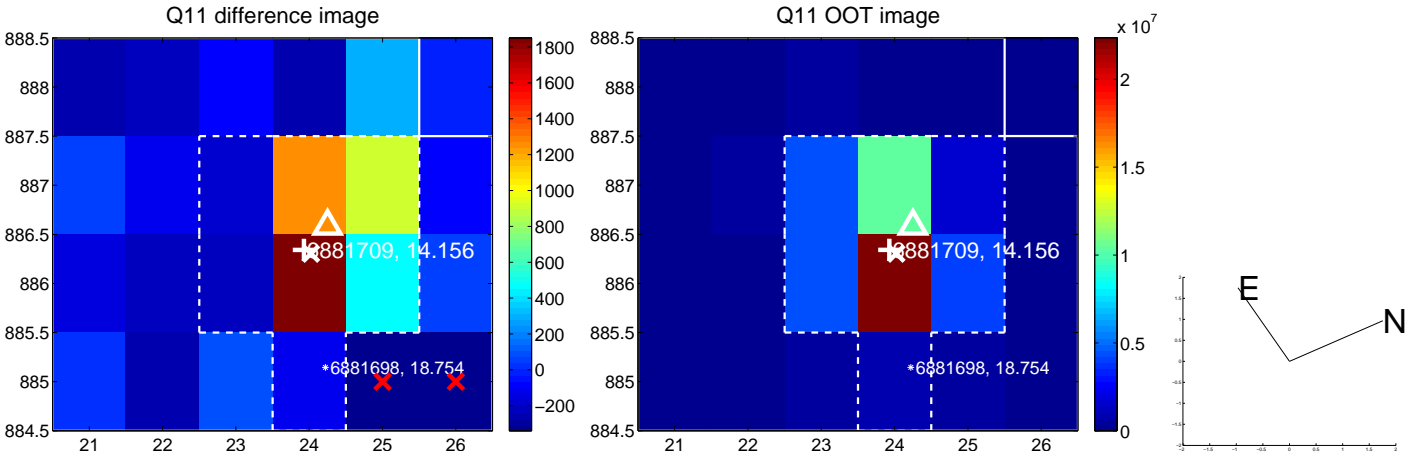
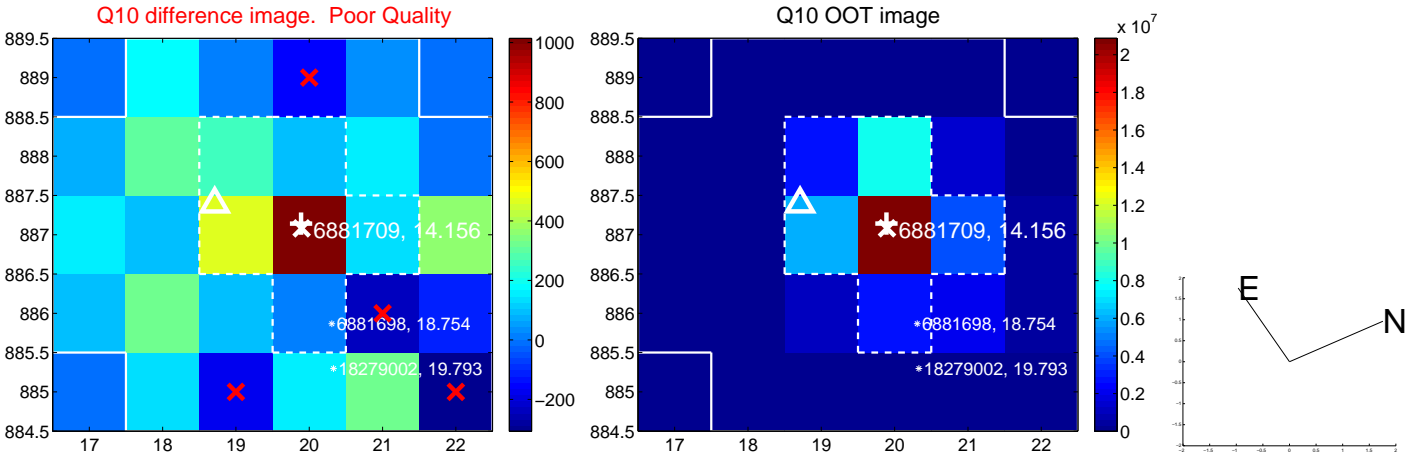
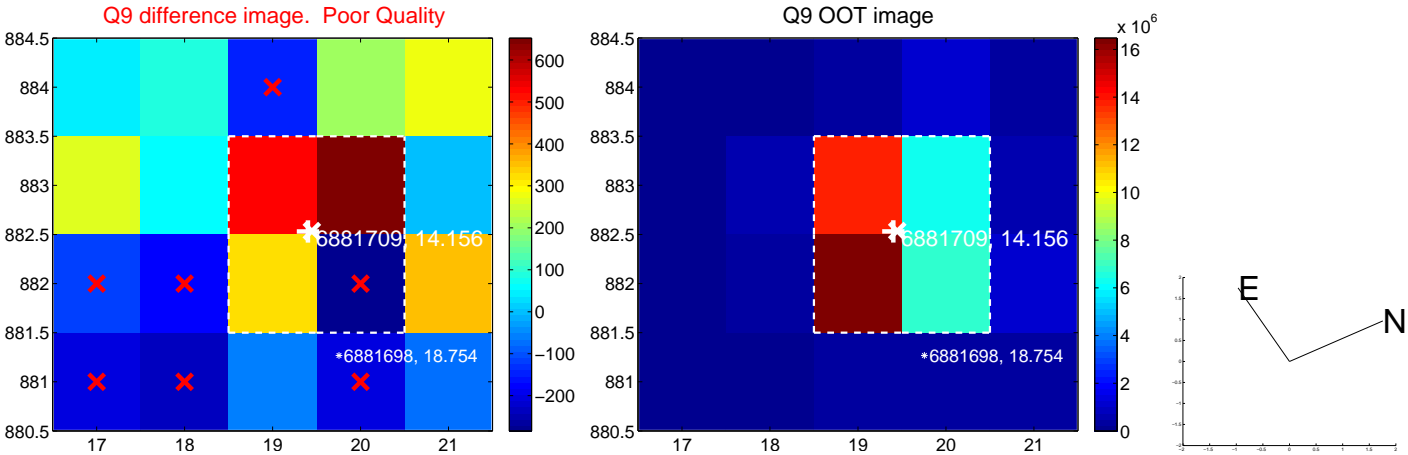
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



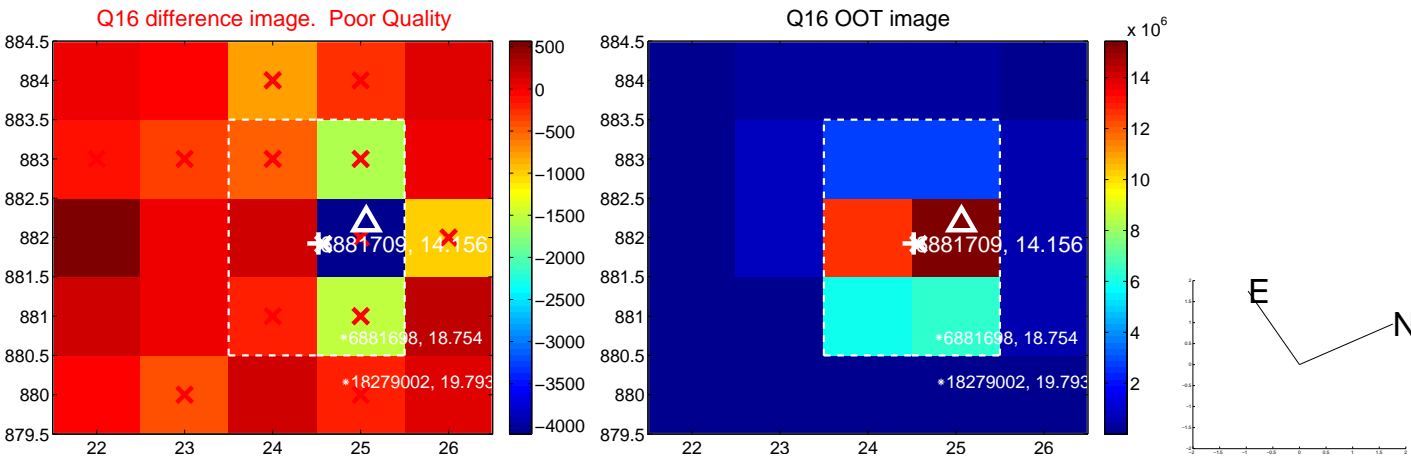
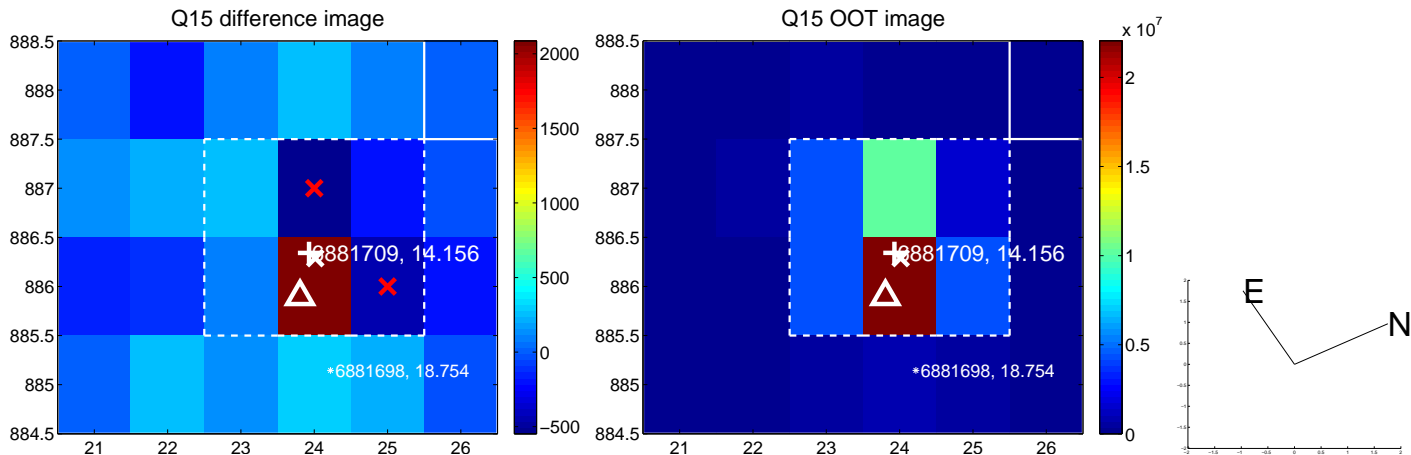
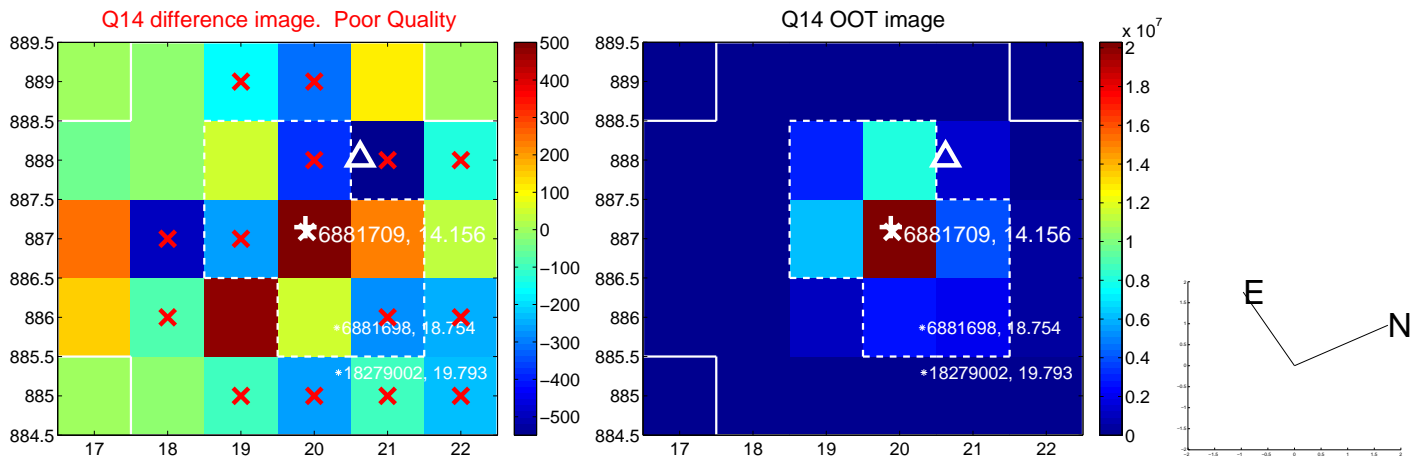
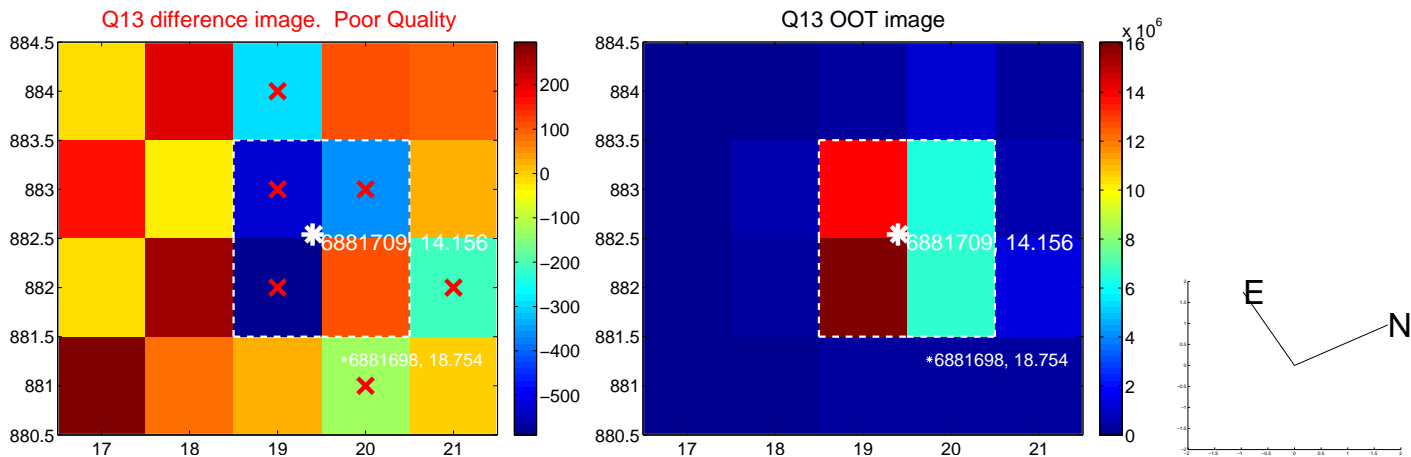
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



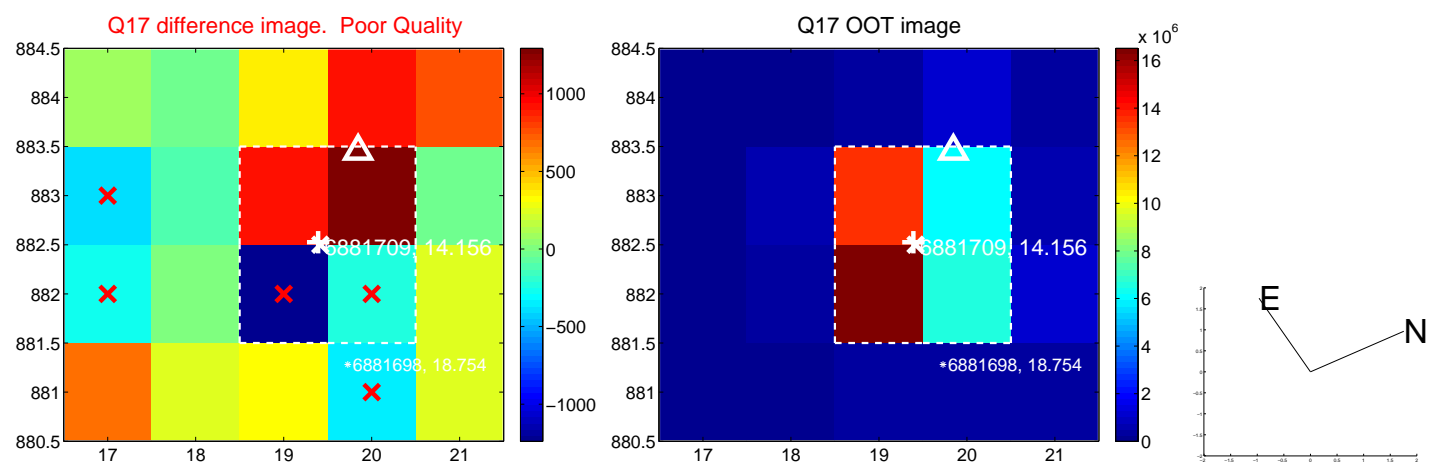
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



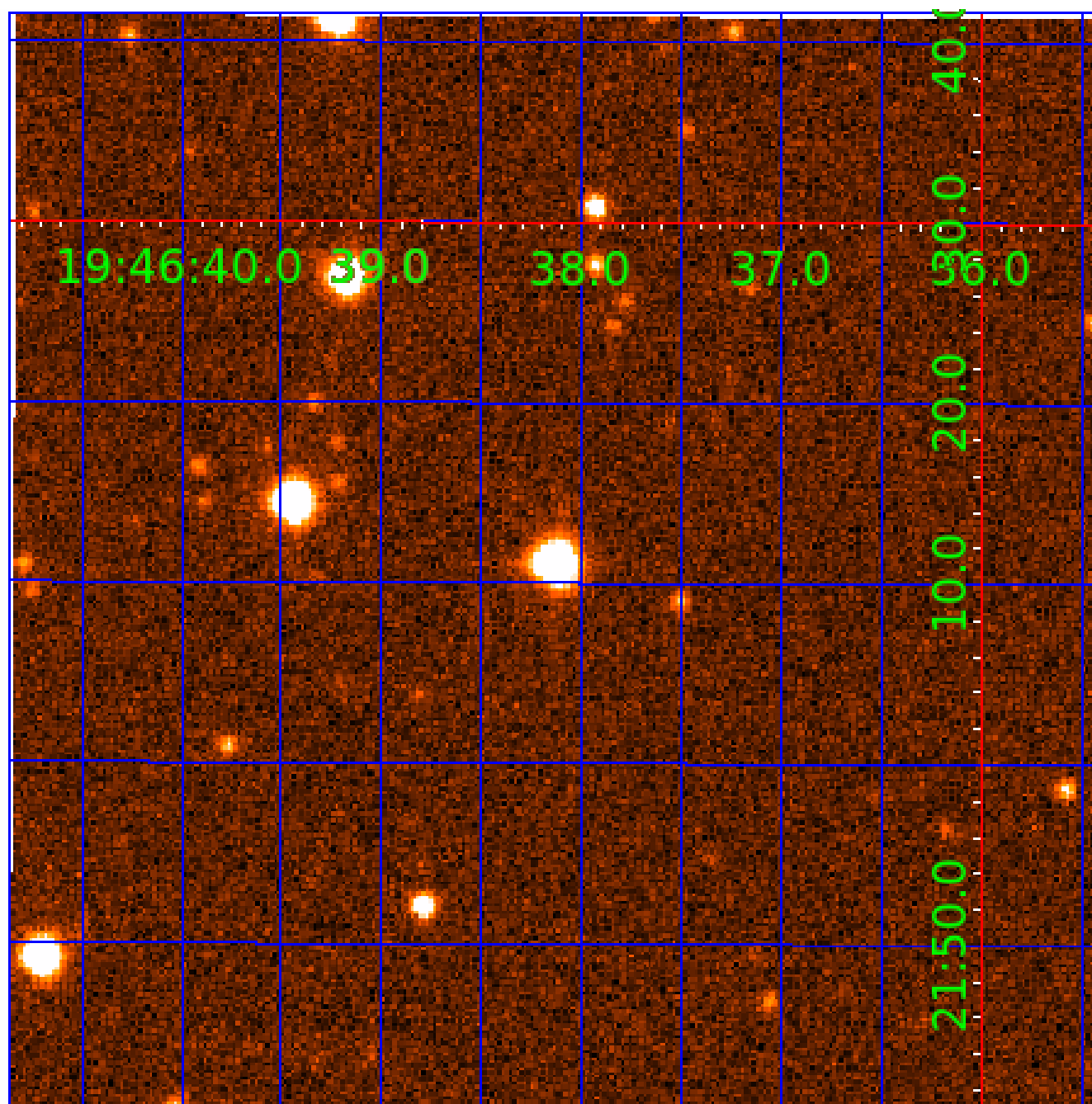
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 006881709

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})
006881709-01	OBS	No	6.741445	136.591543	39.2	18.646	12.6	10.3	0.96	6010	0.71	245.19
006881709-02	OBS	No	2.696211	132.235802	0.0	2.807	9.4	0.0	0.96	6010	0.01	832.09
006881709-03	OBS	No	2.696995	132.548668	7.0	28.568	8.9	2.3	0.96	6010	0.25	831.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006881709-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006881709-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT—CENT_FEW_DIFFS
006881709-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

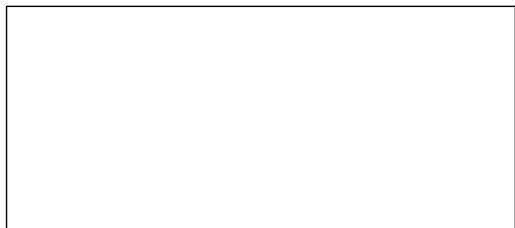
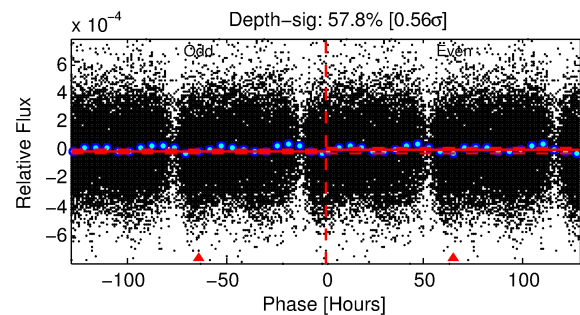
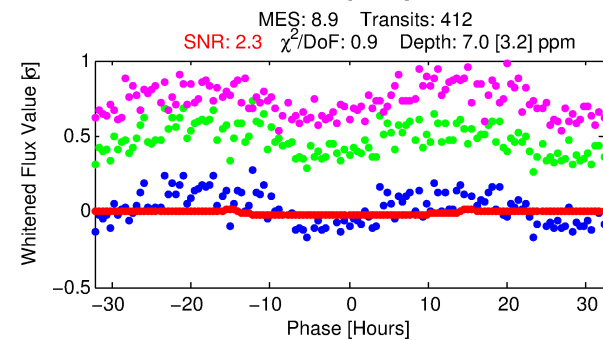
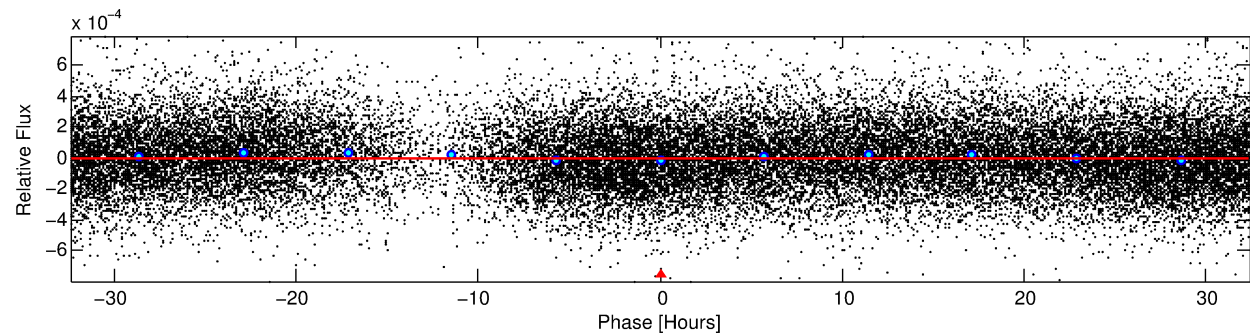
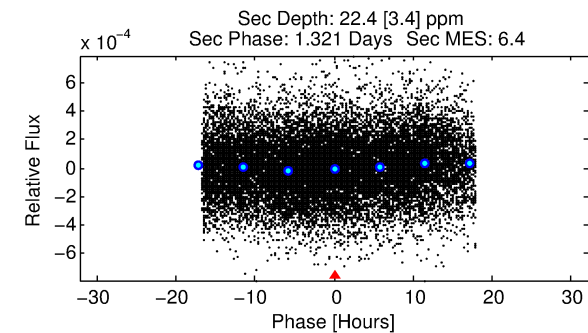
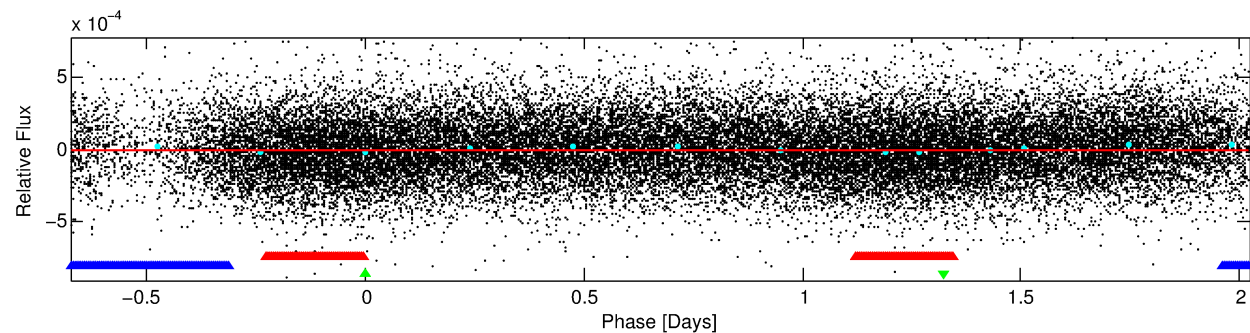
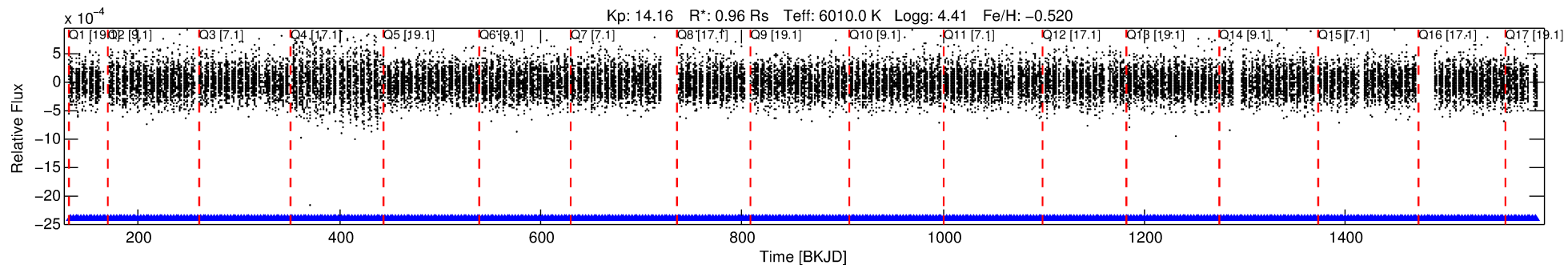
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006881709-03

No Significant Match Found

DV One-Page Summary

KIC: 6881709 Candidate: 3 of 3 Period: 2.697 d



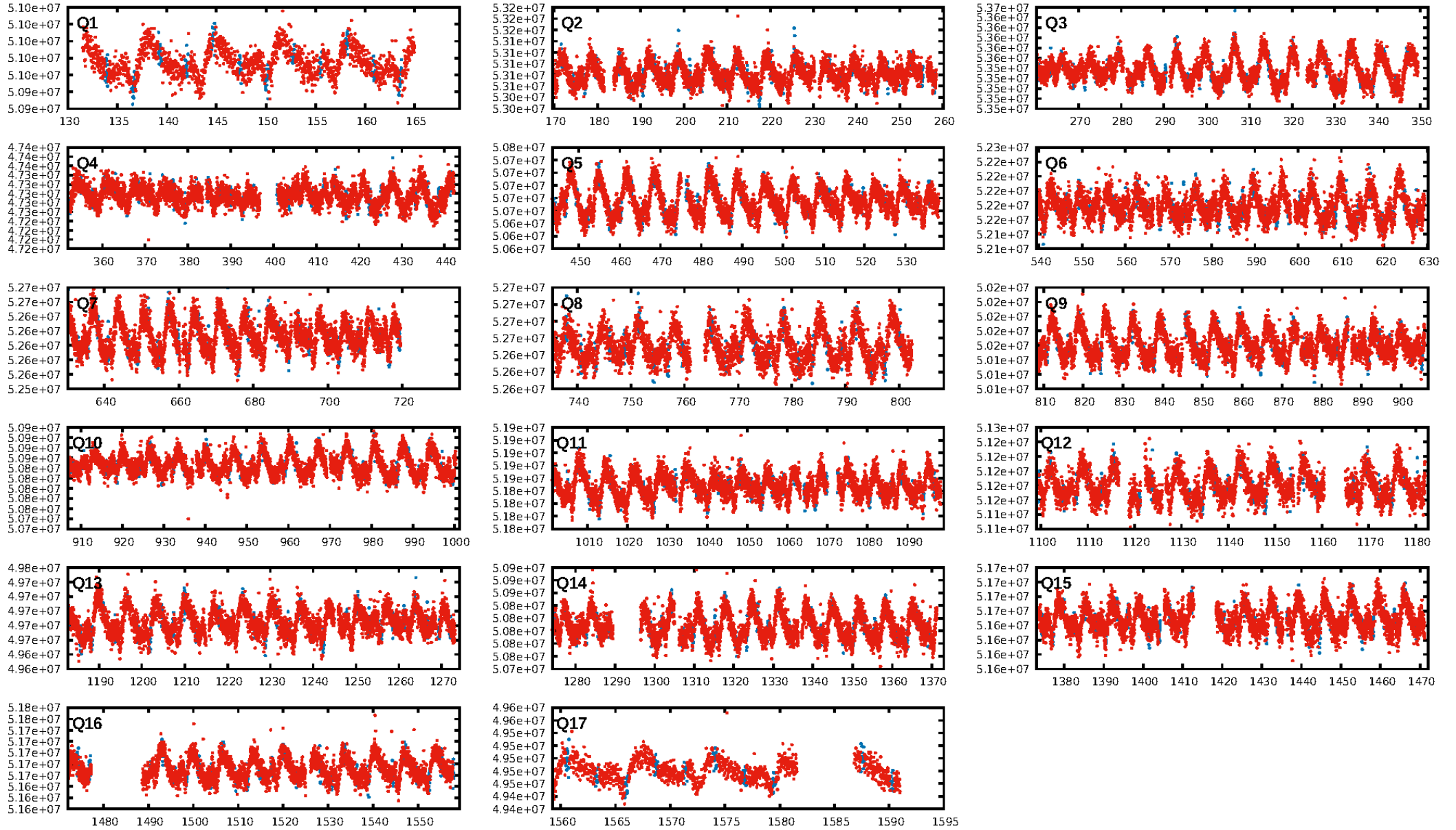
DV Fit Results:

Period = 2.69699 [0.00144] d
Epoch = 132.5487 [0.1526] BKJD
Rp/R* = 0.0024 [0.0100]
a/R* = 1.02 [0.78]
b = 0.00 [17349.44]
Seff = 831.77 [293.81]
Teq = 1369 [121] K
Rp = 0.25 [1.05] Re
a = 0.0361 [0.0080] AU
Ag = 248.86 [2063.58] [0.12 σ]
Teffp = 8409 [17420] K [0.40 σ]

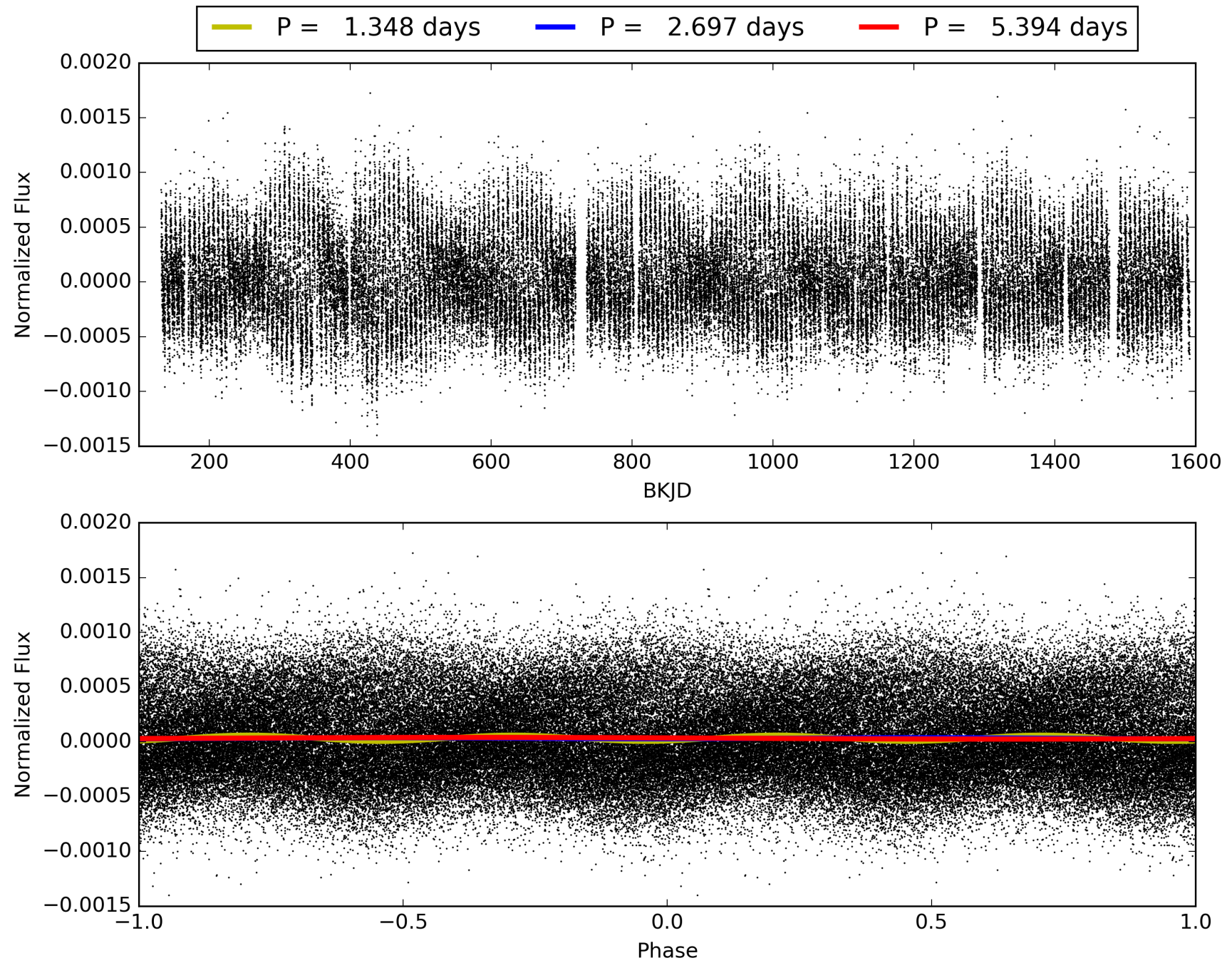
DV Diagnostic Results:

ShortPeriod-sig: 0.1% [0.00 σ]
LongPeriod-sig: 99.6% [2.85 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [393/393]
GhostDiagnostic-chr: 1.202
Centroid-sig: 1.3%
Centroid-so: 5.812 arcsec [2.06 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/17]

TCE 006881709-03, PDC Light Curves

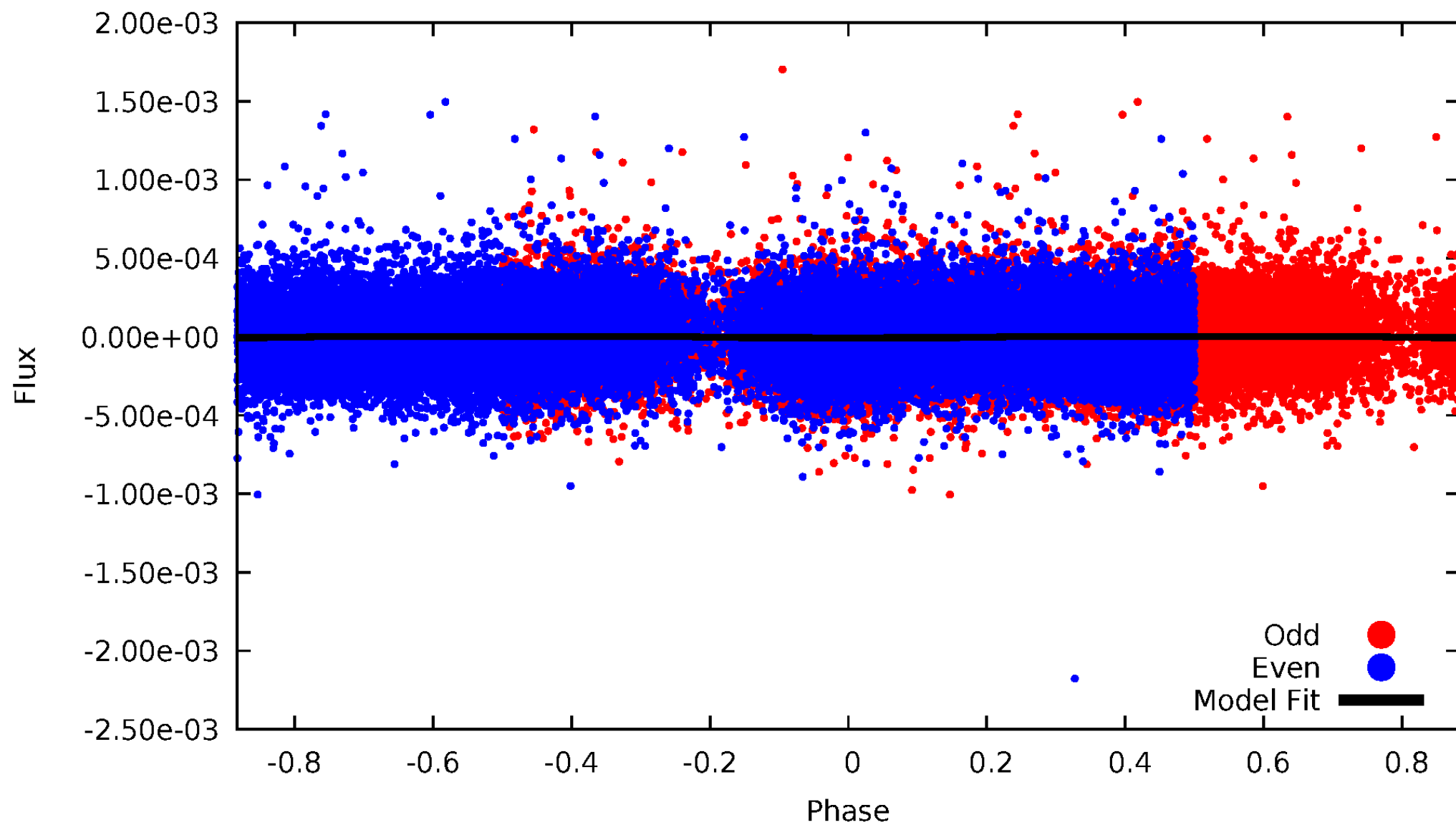


TCE 006881709-03



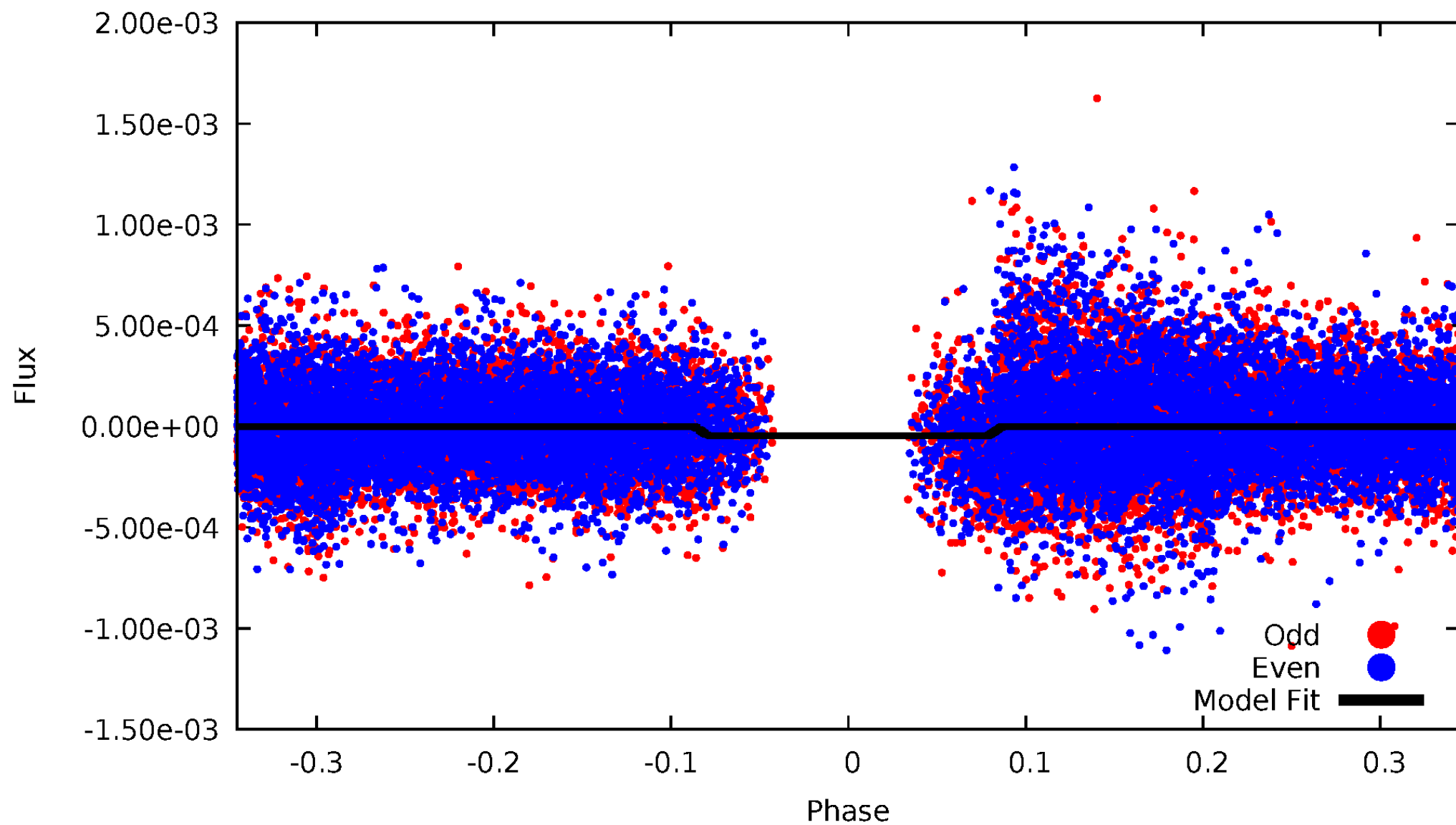
DV Odd/Even

TCE 006881709-03



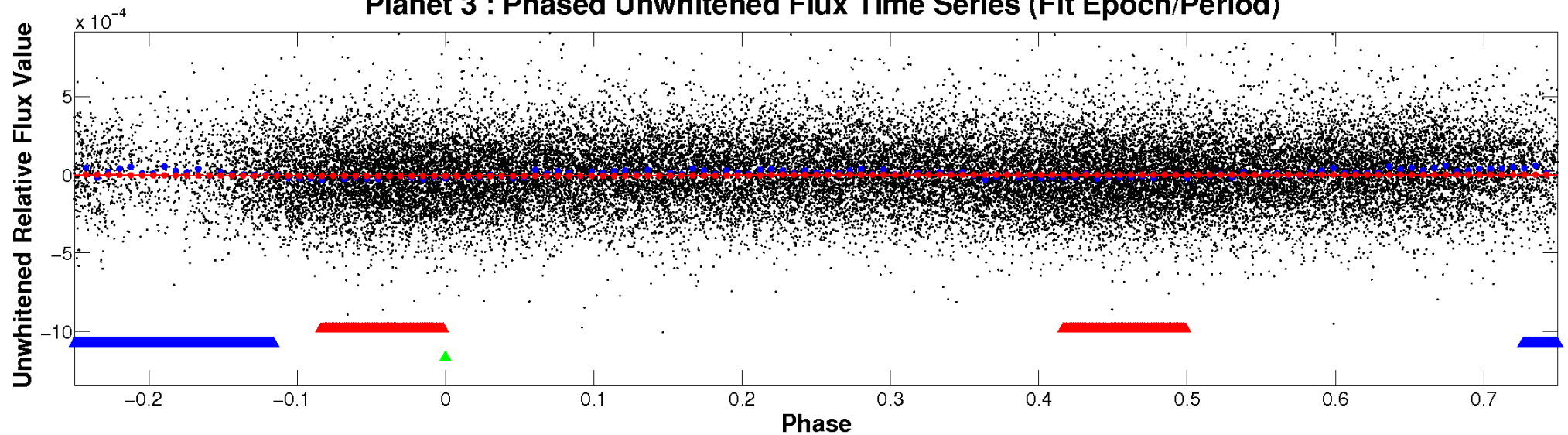
ALT Odd/Even

TCE 006881709-03

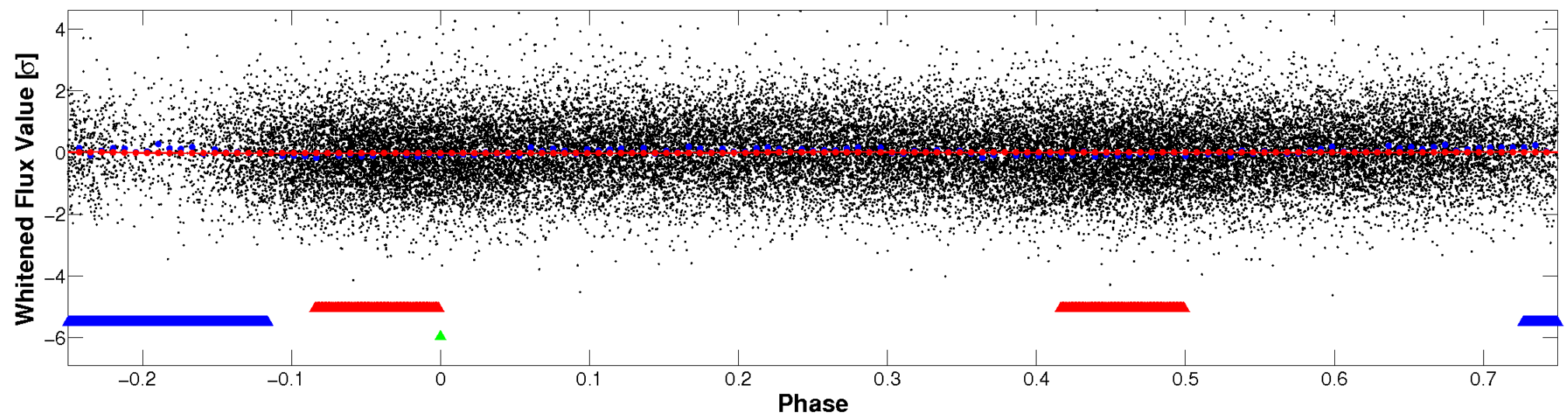


Non-Whitened Vs. Whitened Light Curve

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

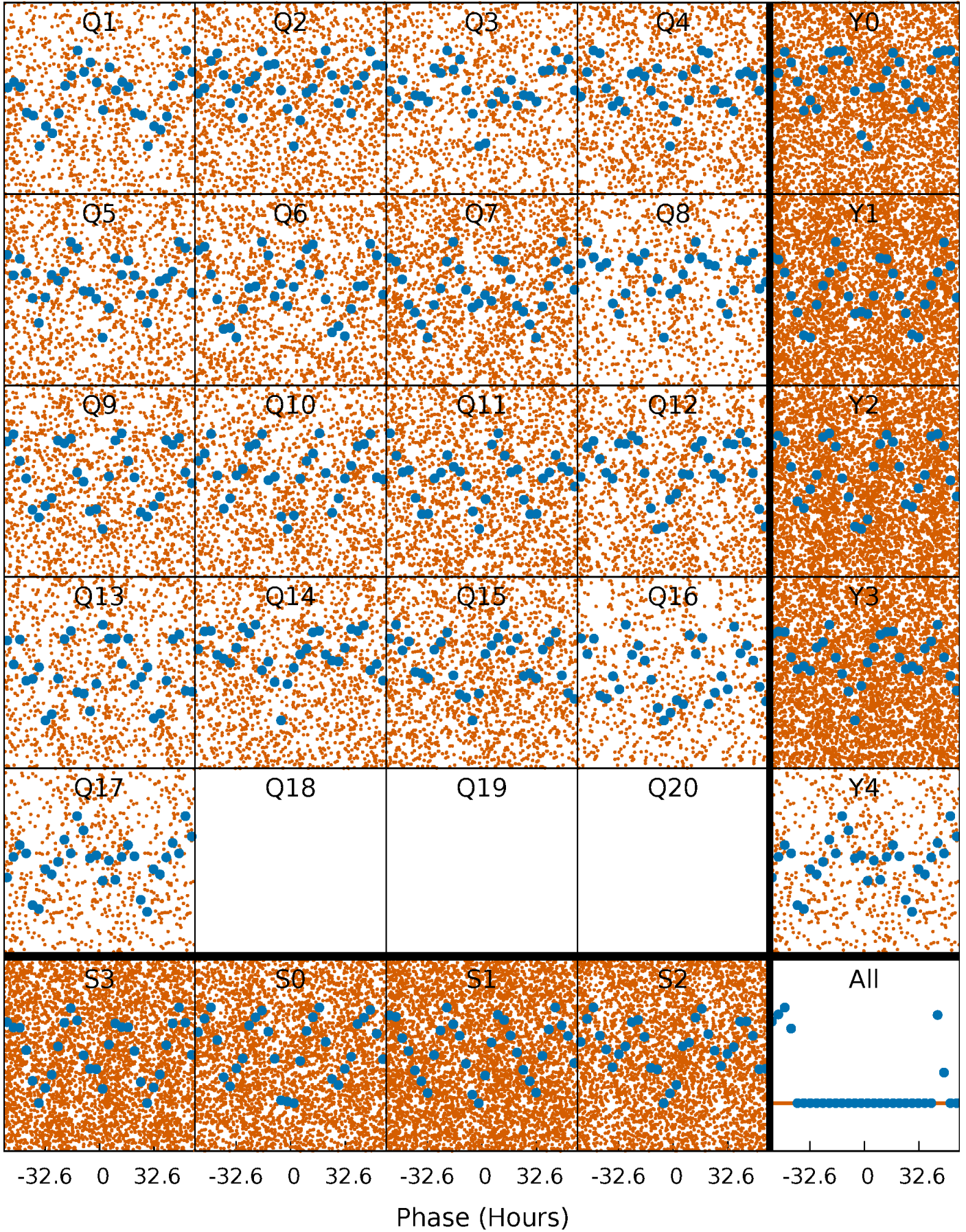


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



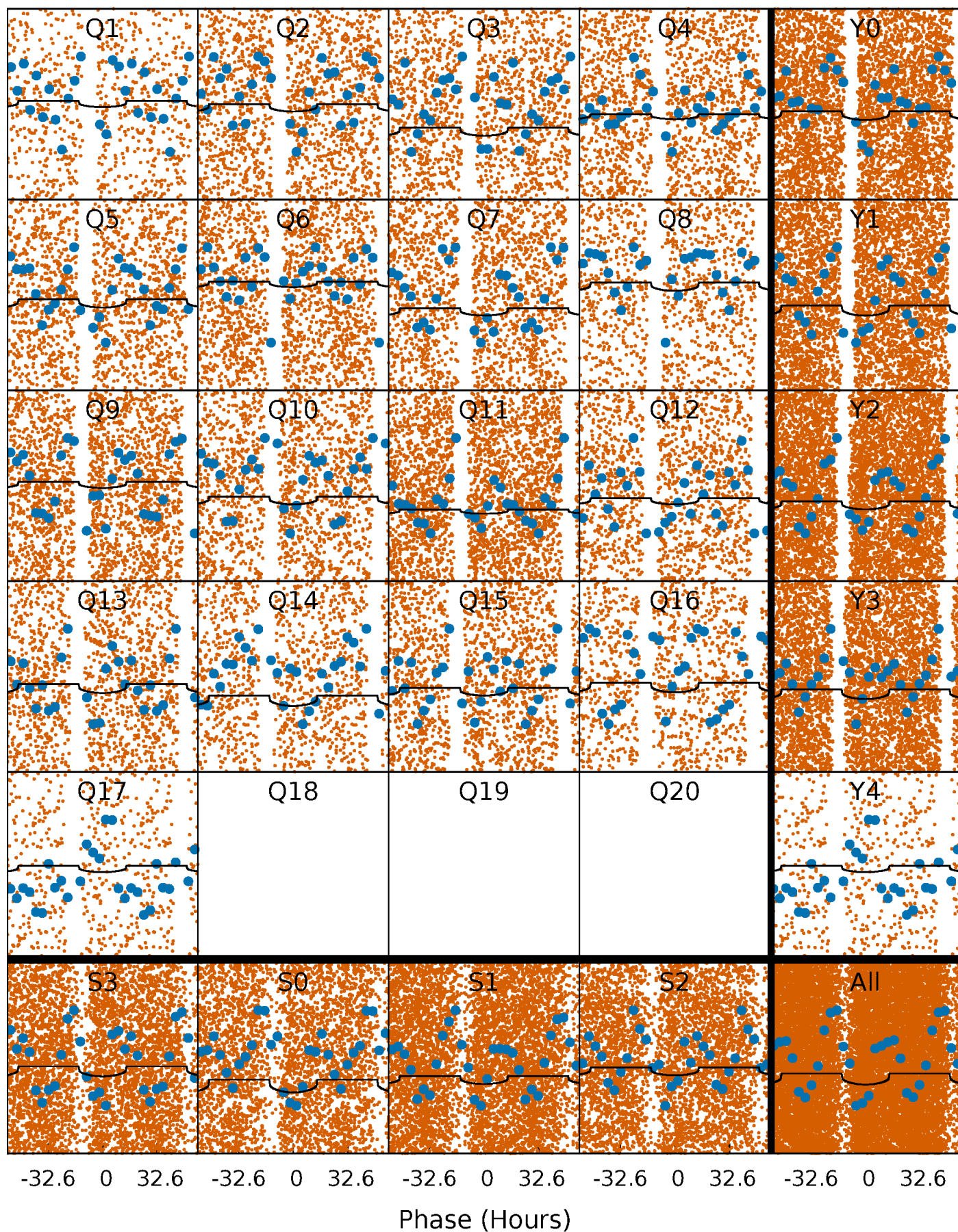
PDC Quarter-Phased Transit Curves

TCE 006881709-03 P= 2.696995 Days $T_0=132.548668$ (BKJD)



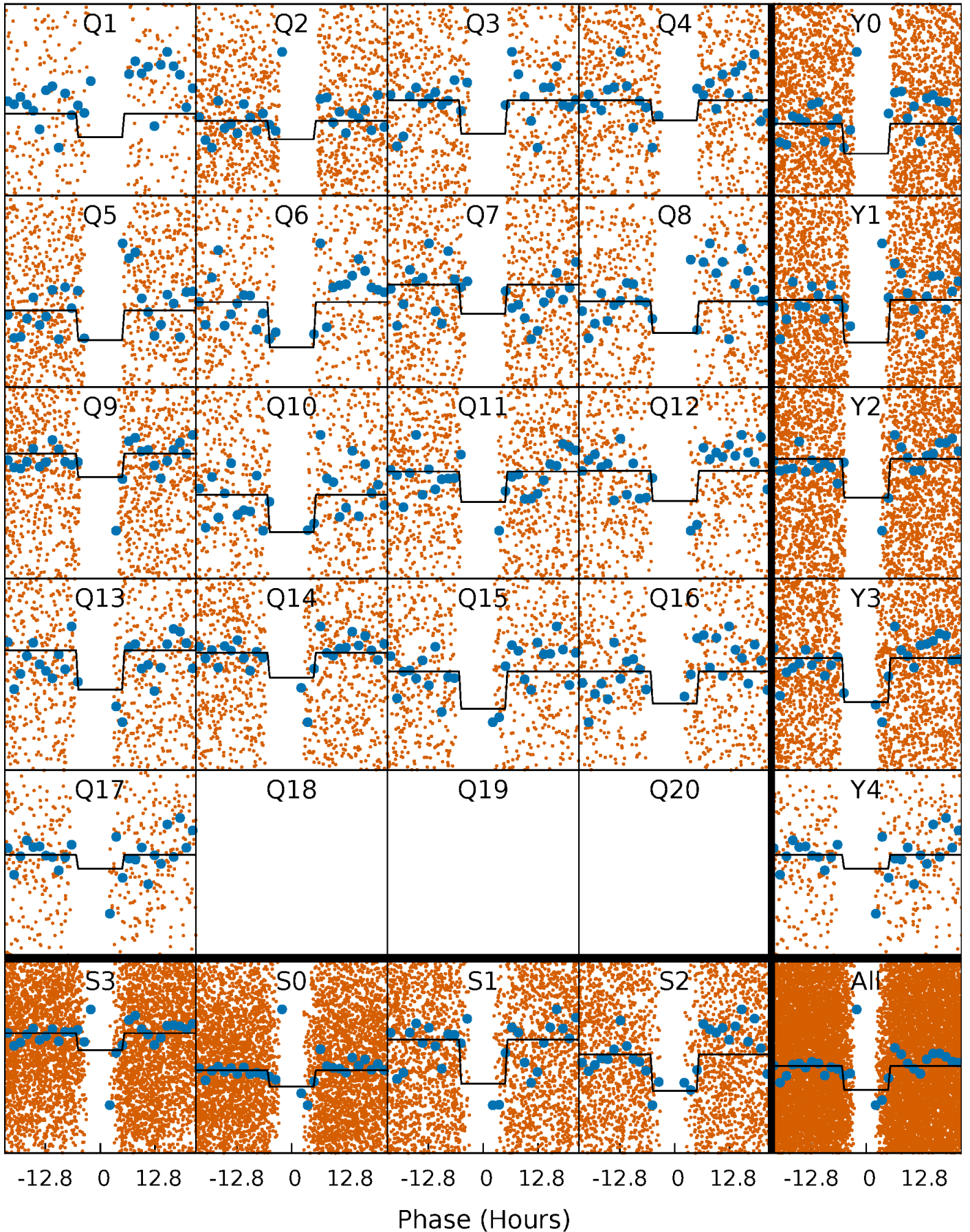
DV Quarter-Phased Transit Curves

TCE 006881709-03 P= 2.696995 Days $T_0=132.548668$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

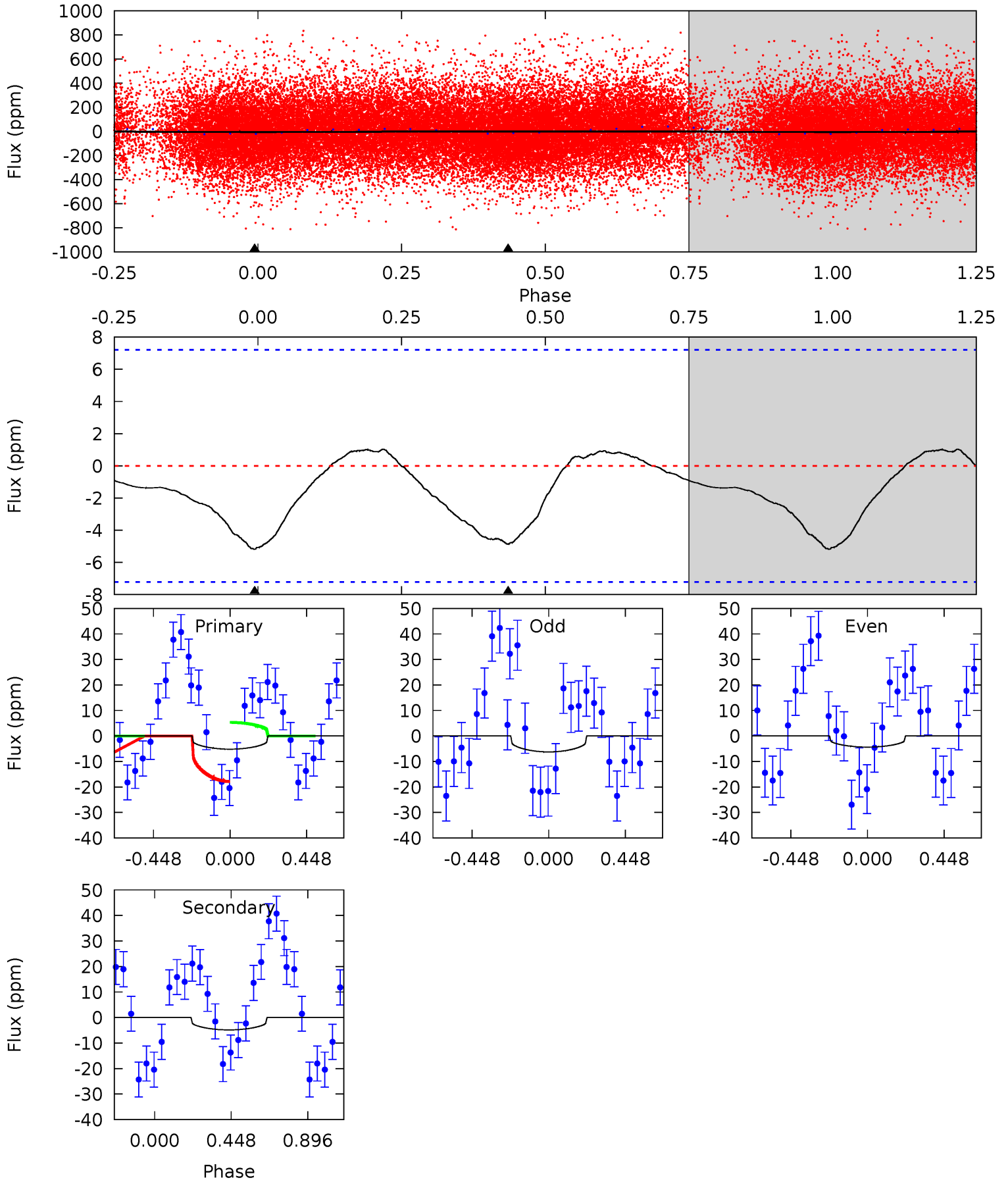
TCE 006881709-03 P= 2.696531 Days $T_0=132.162069$ (BKJD)



DV Model-Shift Uniqueness Test

006881709-03, P = 2.696995 Days, E = 129.851673 Days

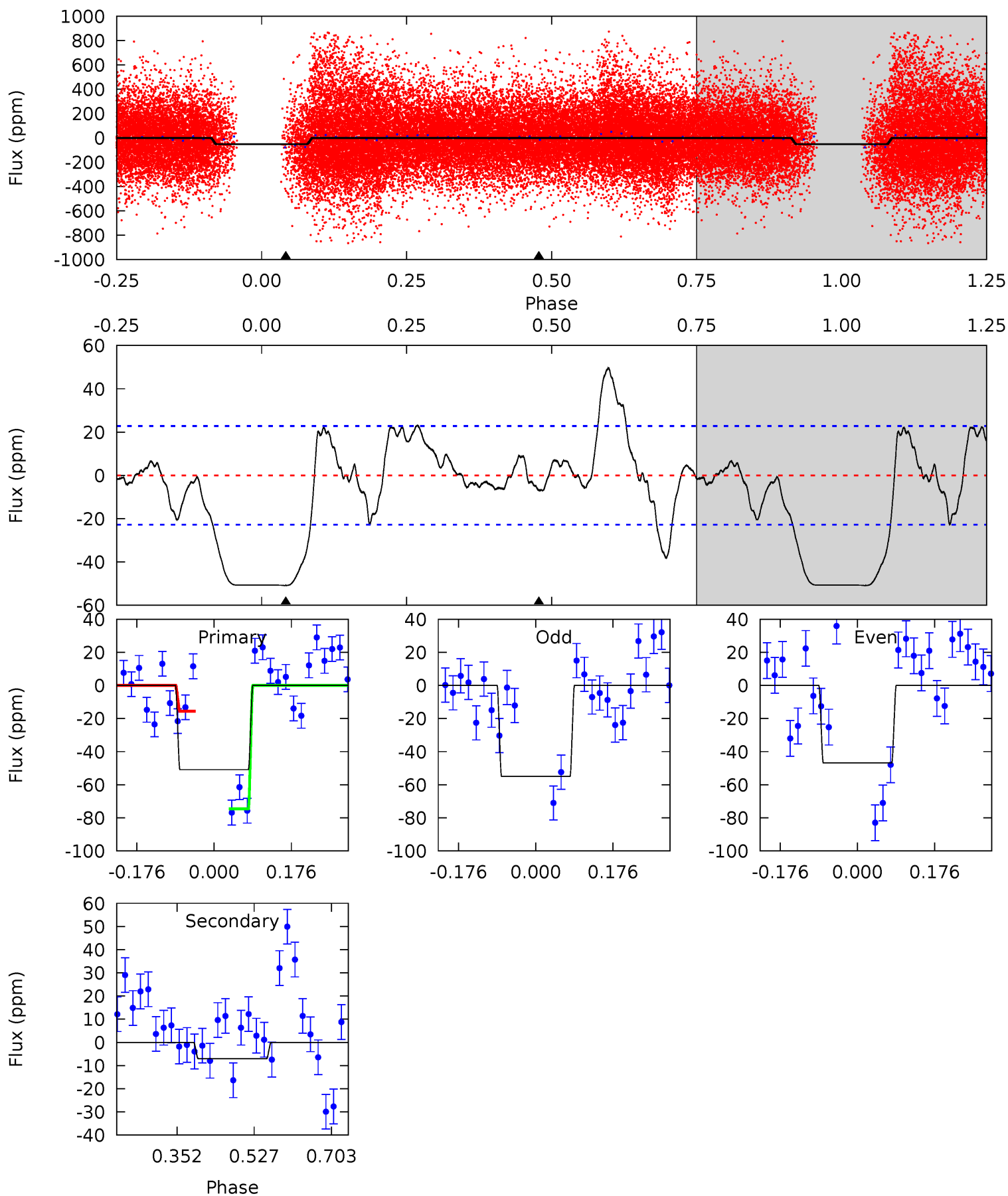
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.05	2.86	0	0	4.24	0.76	0.37	3.05	3.05	2.86	2.86	0.57	1.25	0.17	3.80



Alt Model-Shift Uniqueness Test

006881709-03, P = 2.696531 Days, E = 129.465538 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.94	1.37	0	0	4.44	1.35	3.09	9.94	9.94	1.37	1.37	0.76	1.04	0.49	5.90



Stellar Parameters For KIC 006881709

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6010^{+161}_{-179}	$4.406^{+0.139}_{-0.186}$	$-0.520^{+0.300}_{-0.300}$	$0.962^{+0.246}_{-0.144}$	$0.861^{+0.108}_{-0.072}$	$1.360^{+0.854}_{-0.642}$
	+3%/-3%	+3%/-4%	+58%/-58%	+26%/-15%	+13%/-8%	+63%/-47%
Source	PHO1	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 006881709-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-5 ± 2	$0.85^{+0.77}_{-0.60}$	1921^{+144}_{-112}	3547^{+2042}_{-741}	$4.652^{+46.358}_{-3.437}$
Alt.	-7 ± 5	$1.09^{+0.94}_{-0.77}$	1917^{+139}_{-103}	3392^{+2065}_{-966}	$3.710^{+36.139}_{-3.134}$

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 $A_{obs} \gg 1.0$

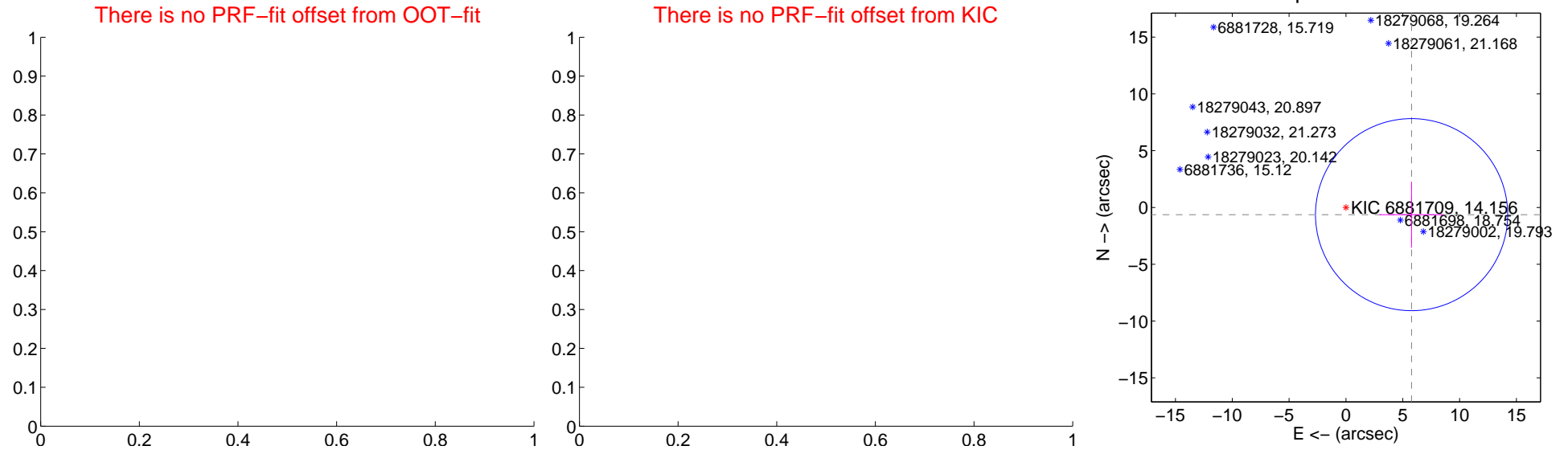
DV Centroid Data

Supplemental centroid analysis for 006881709-03. Kepler magnitude: 14.16. Transit SNR 2.32

There are 0 quarters with good PRF difference image offsets

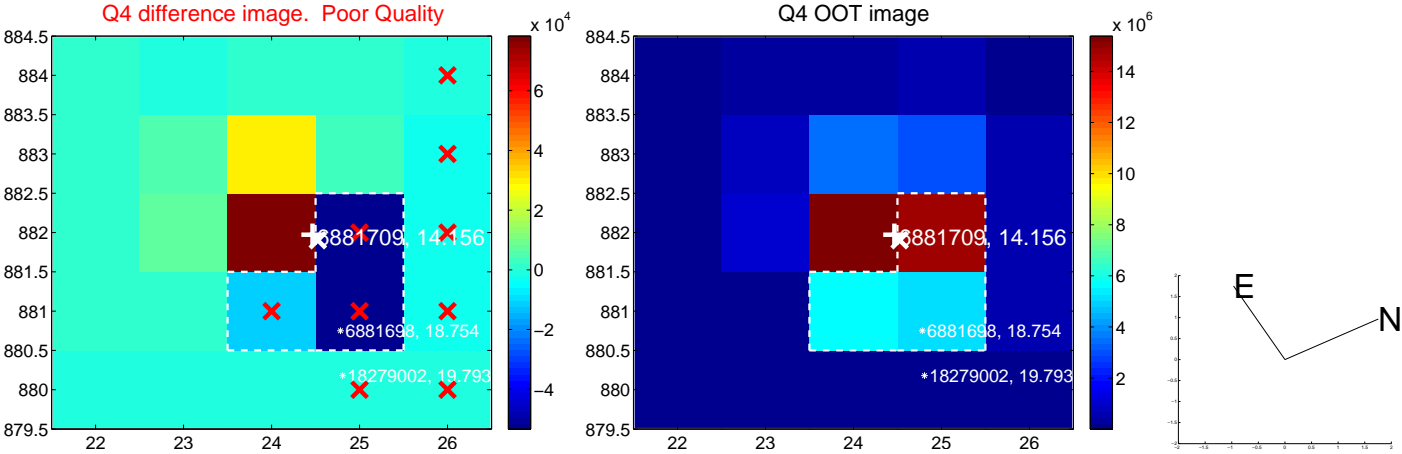
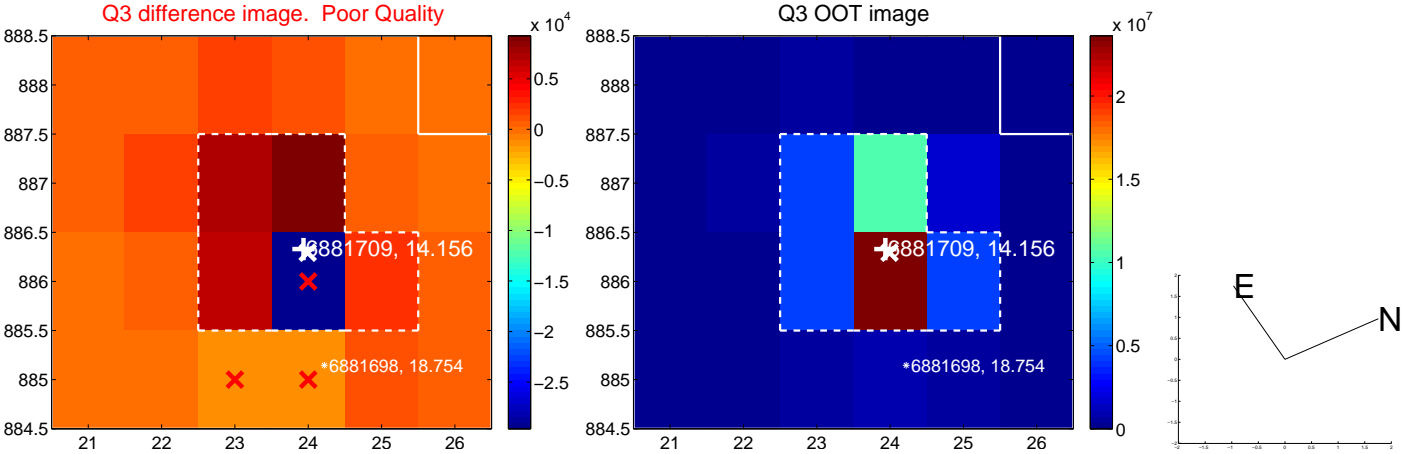
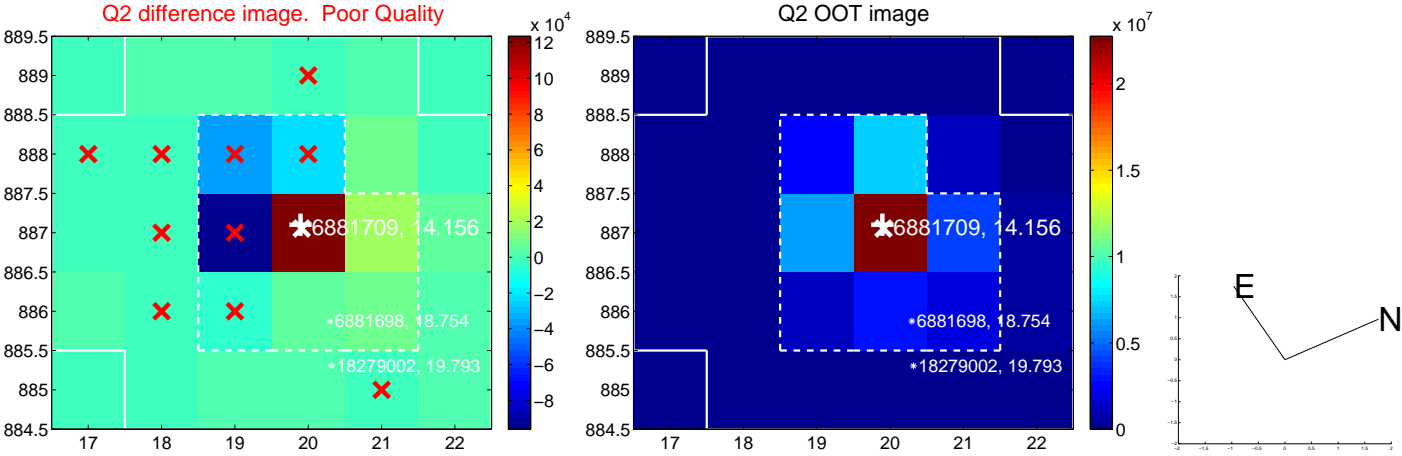
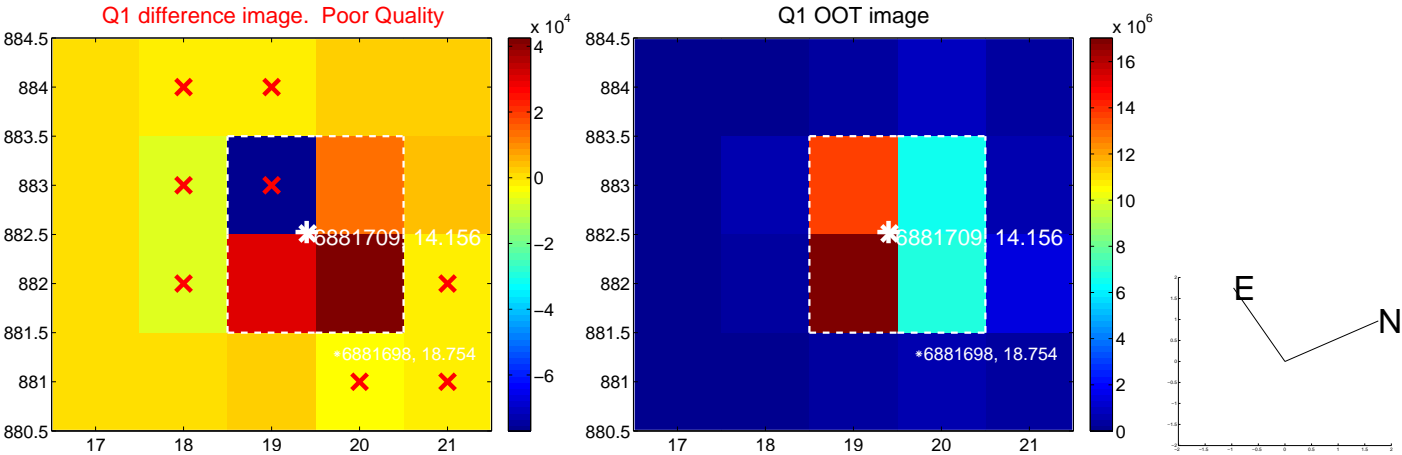
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	5.81 ± 2.82	2.06	-5.78 ± 2.82	-0.63 ± 2.91

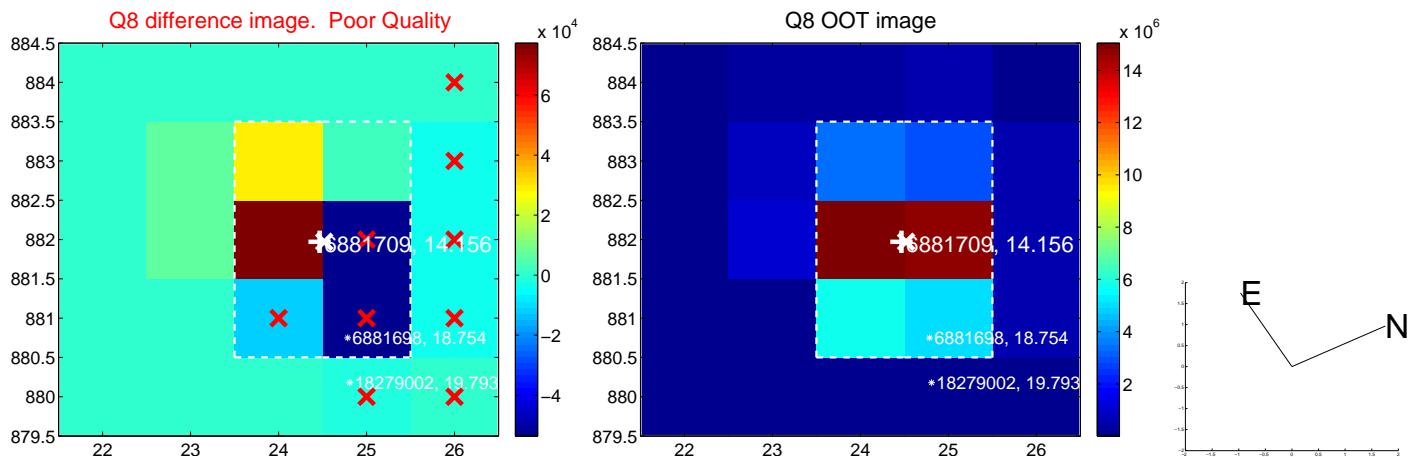
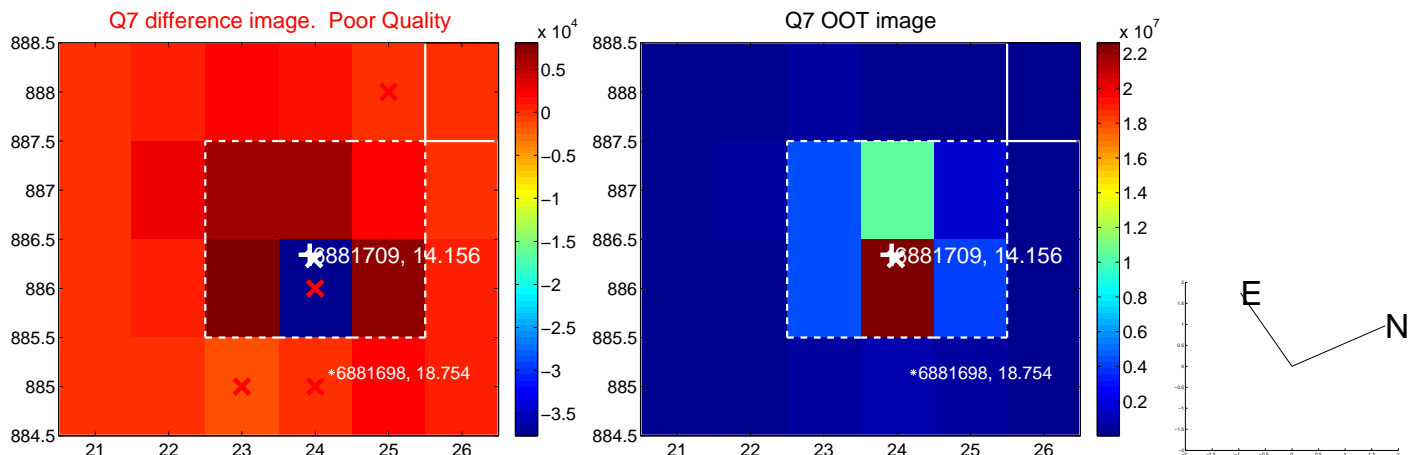
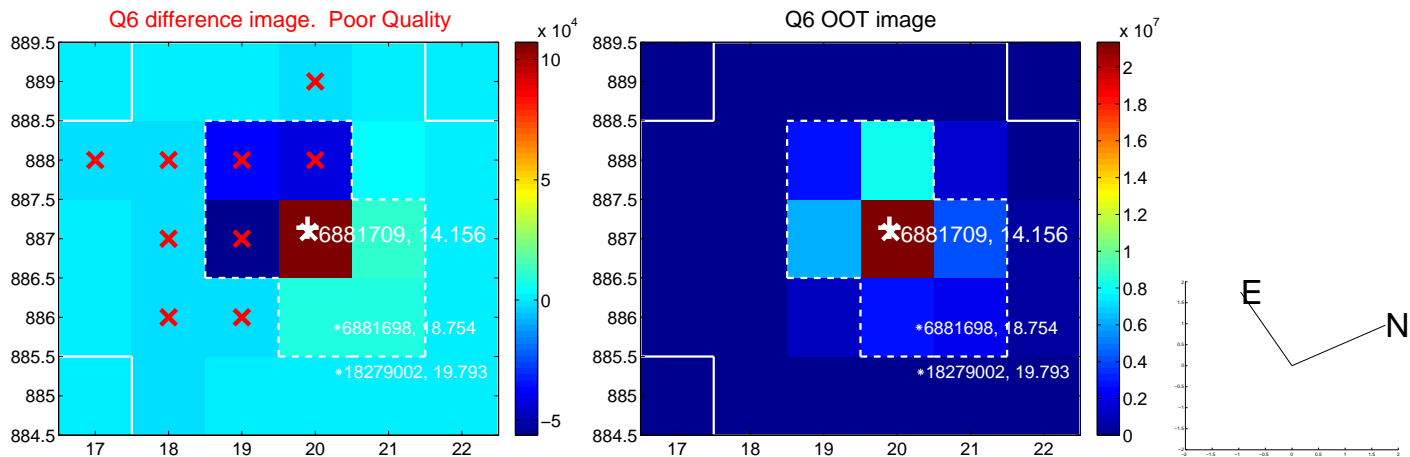
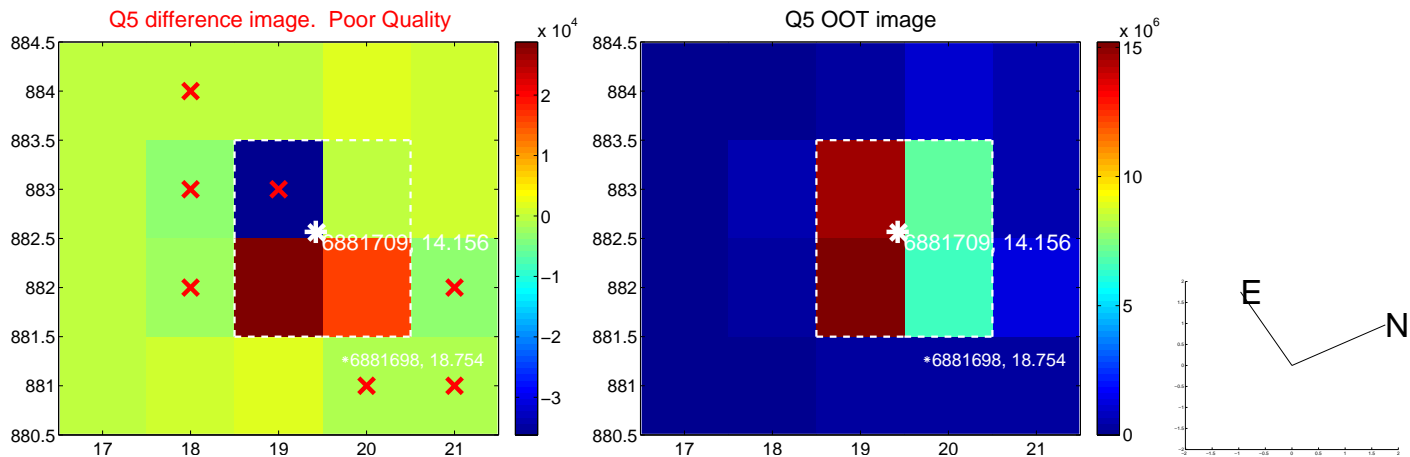


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

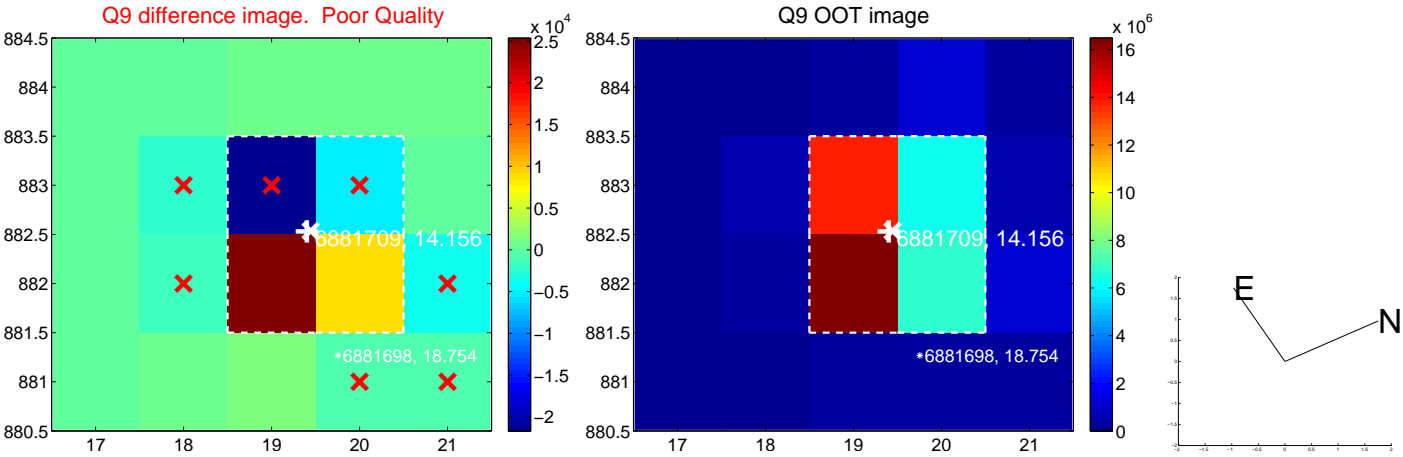
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



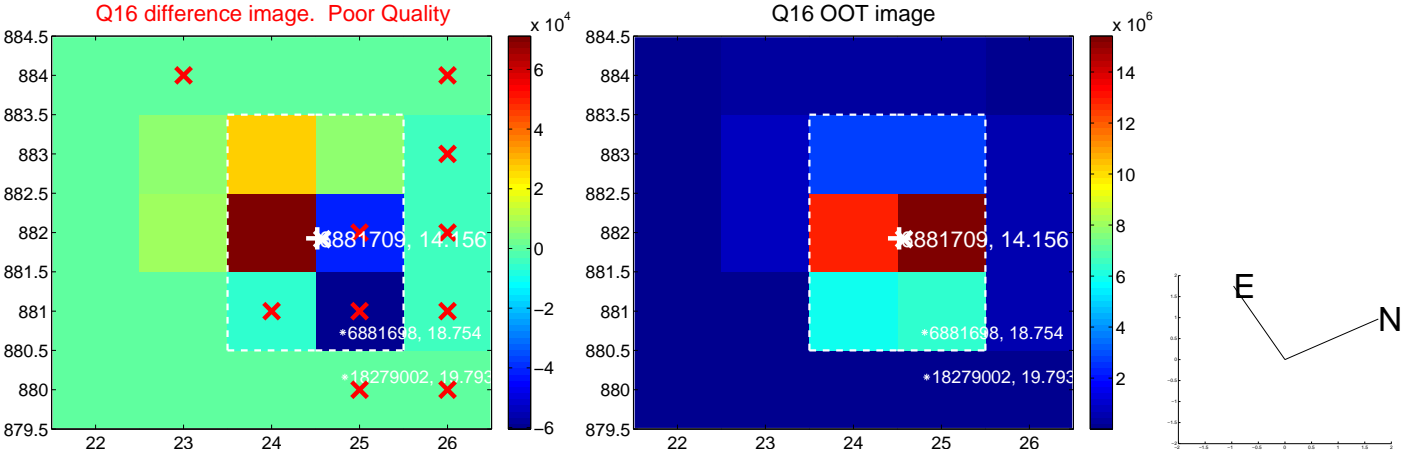
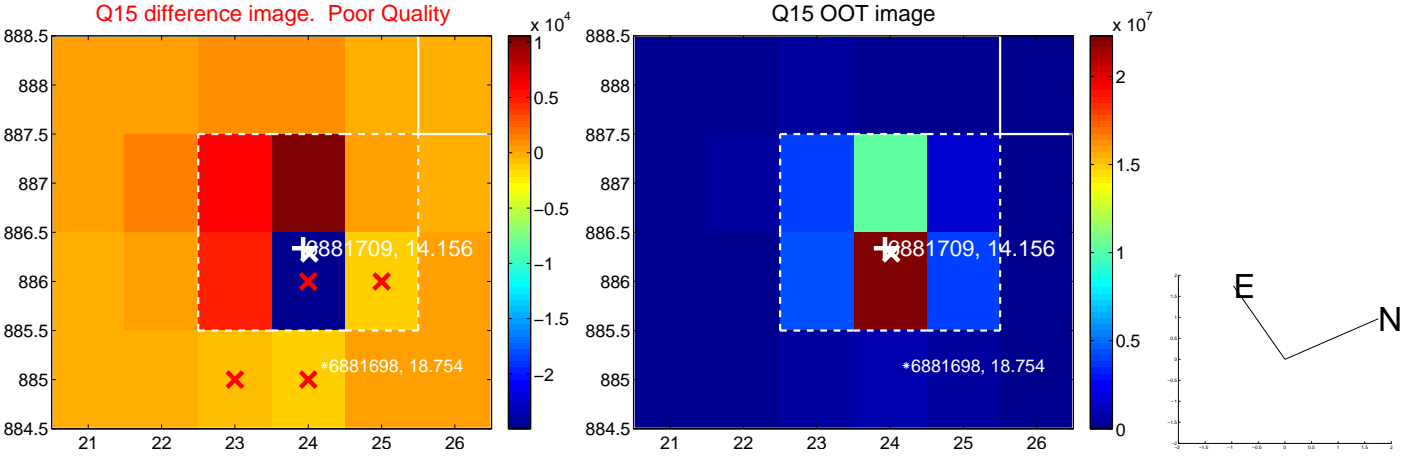
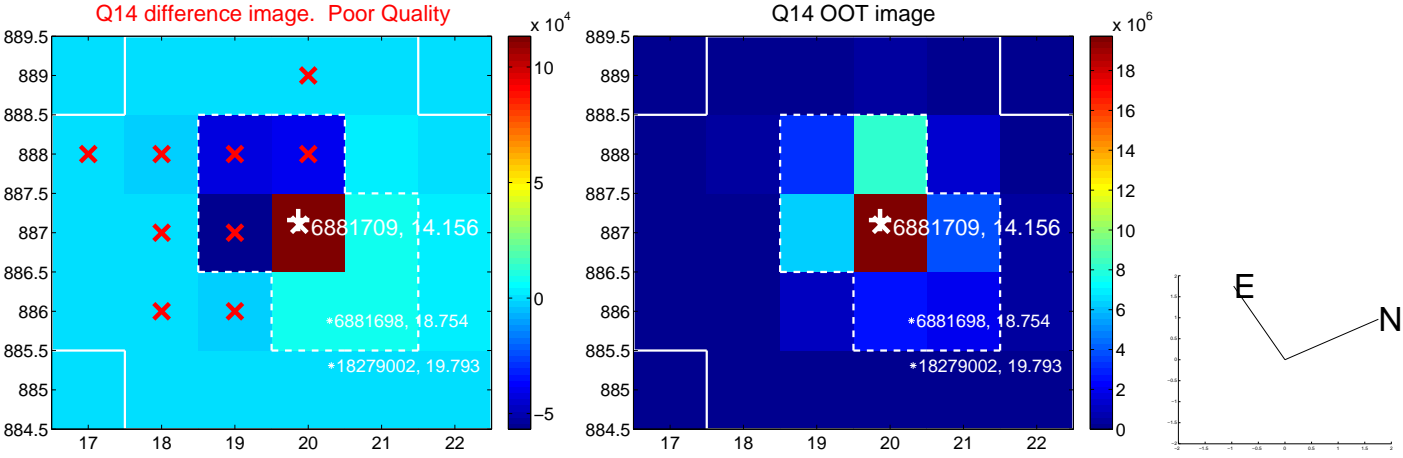
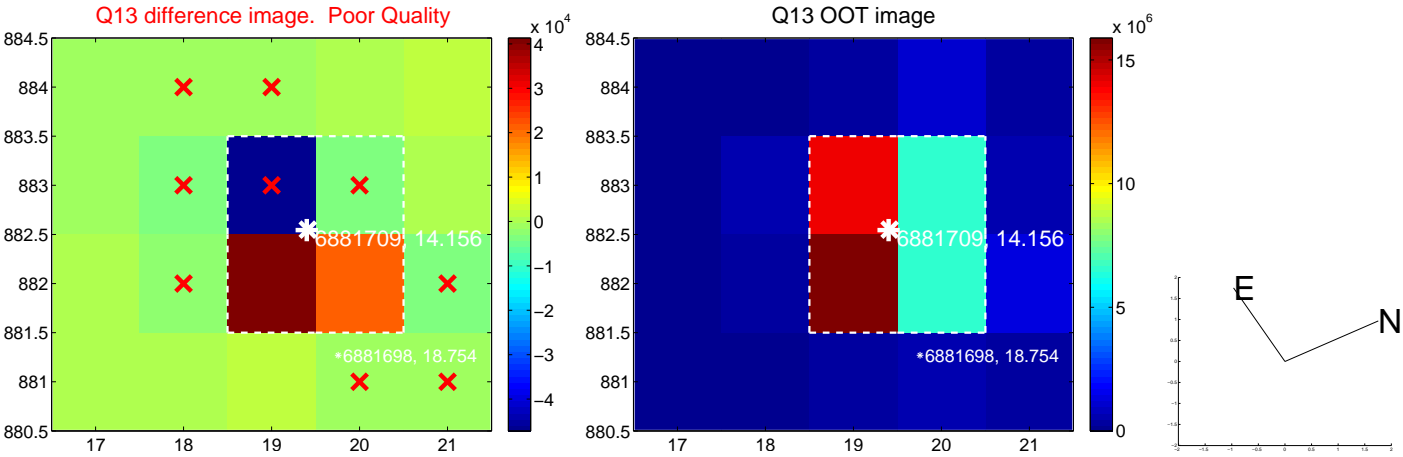
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



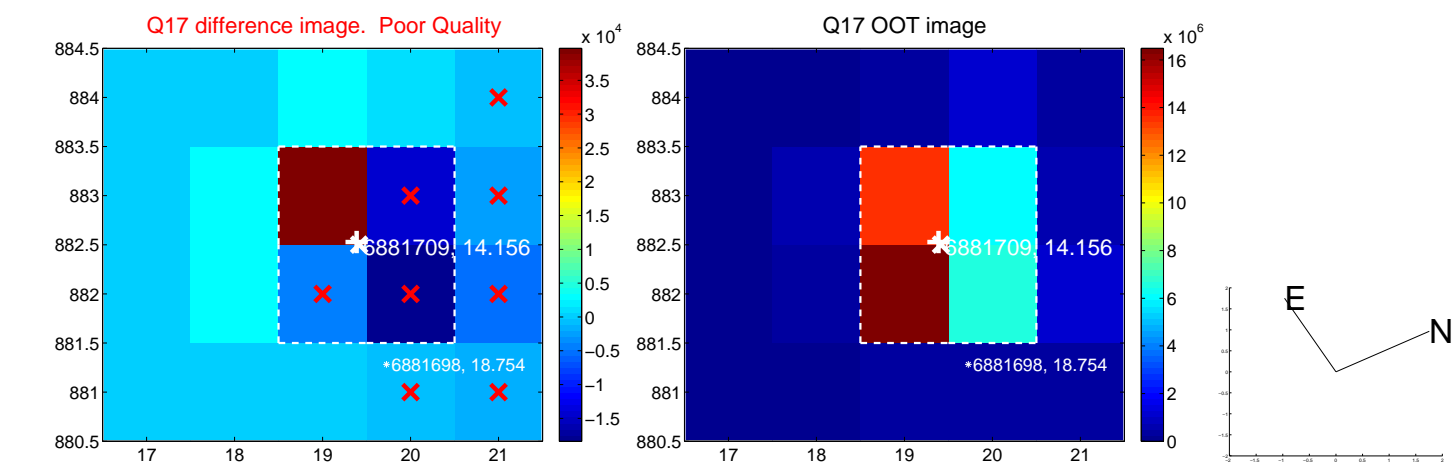
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



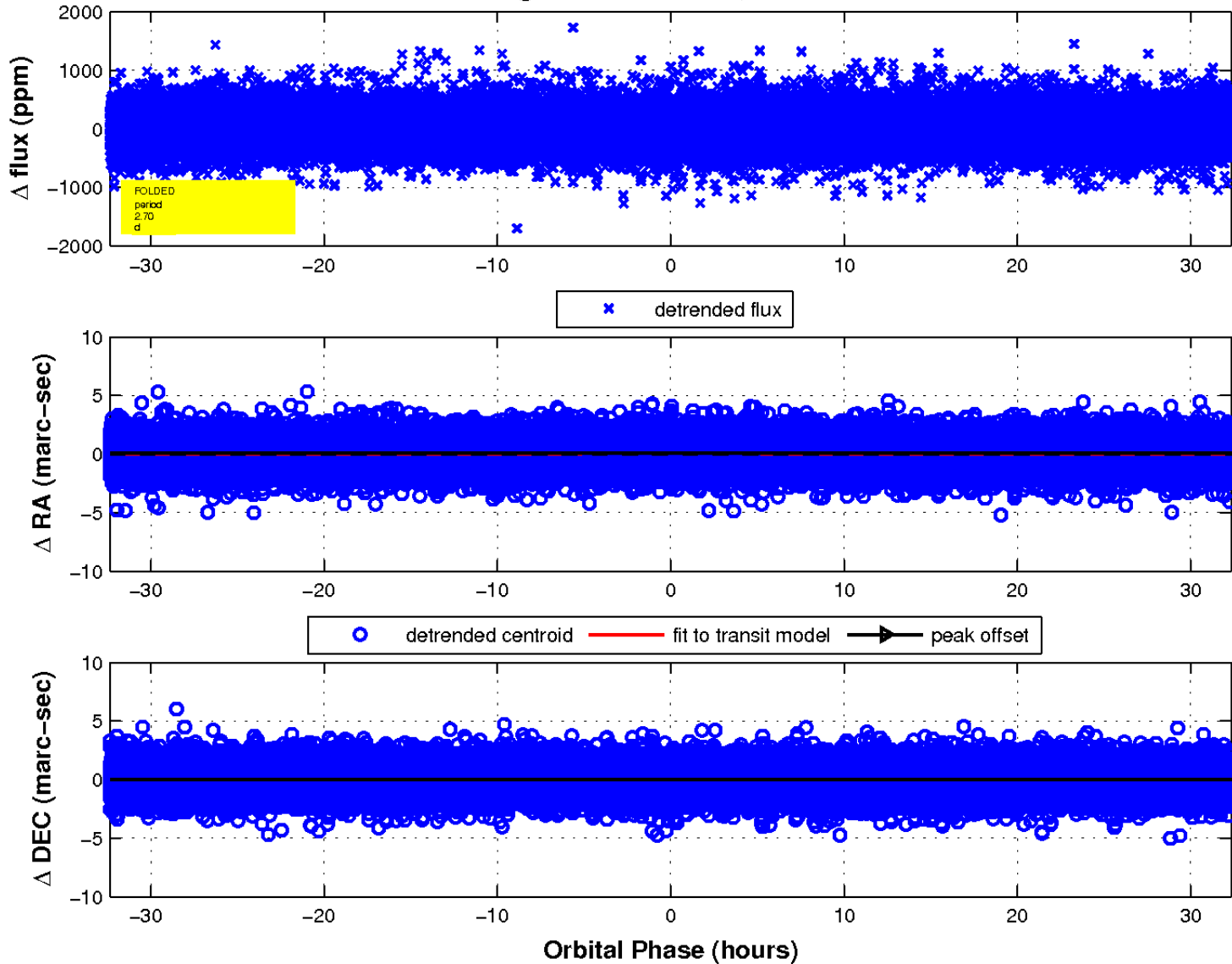
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

