

KIC 005977984

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})
005977984-01	OBS	No	0.563553	131.598986	313.6	0.875	17.9	17.3	2.98	7311	5.51	86067.27
005977984-02	OBS	No	0.563556	131.973685	297.7	1.000	16.3	16.6	2.98	7311	6.00	86066.71
005977984-03	OBS	No	0.563561	131.775593	336.1	1.170	13.7	19.7	2.98	7311	6.36	86065.67

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005977984-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005977984-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005977984-03	OBS	FP	0.00	1	0	0	0	LPP_DV—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.

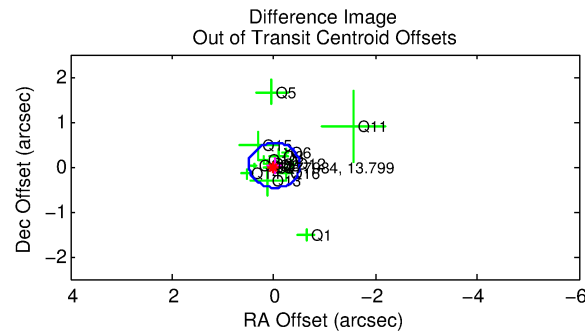
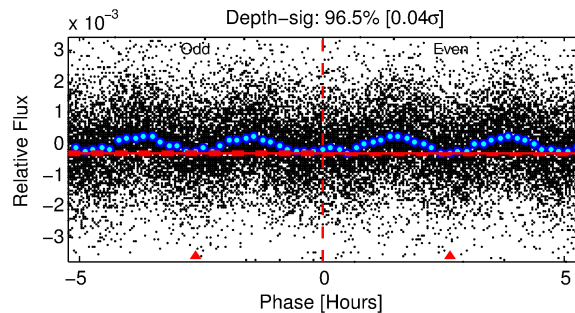
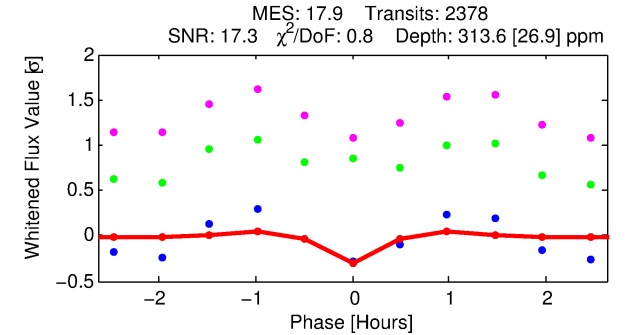
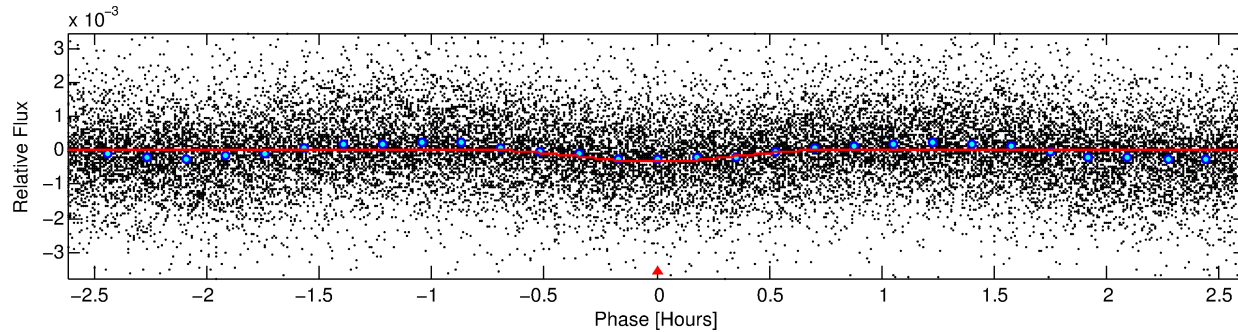
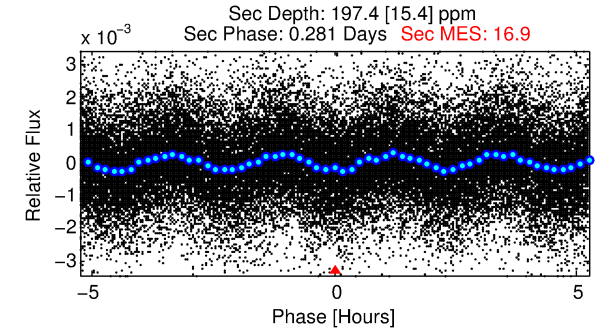
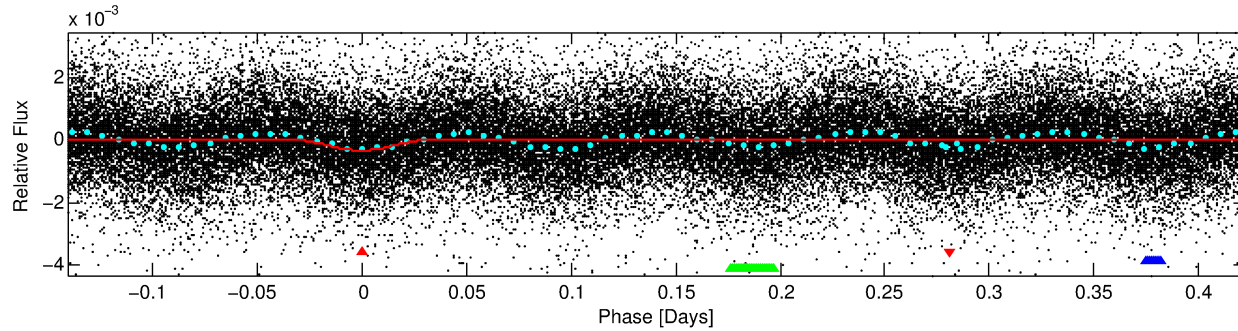
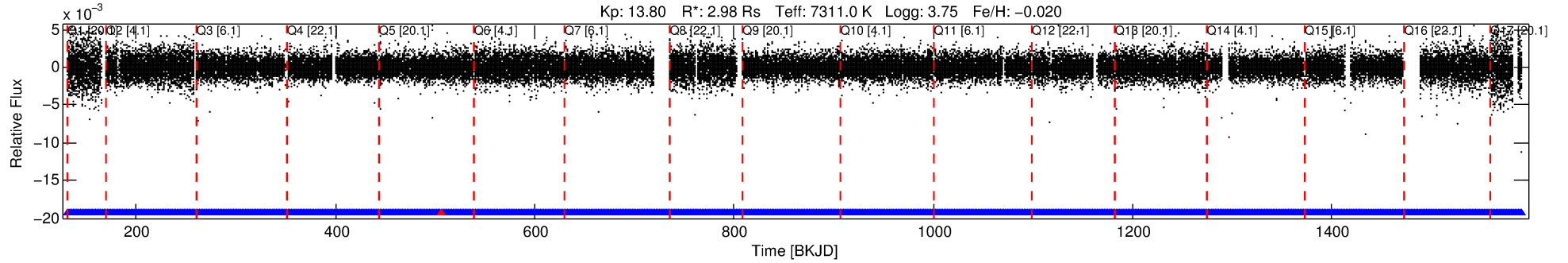
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005977984-01

No Significant Match Found

DV One-Page Summary

KIC: 5977984 Candidate: 1 of 3 Period: 0.564 d



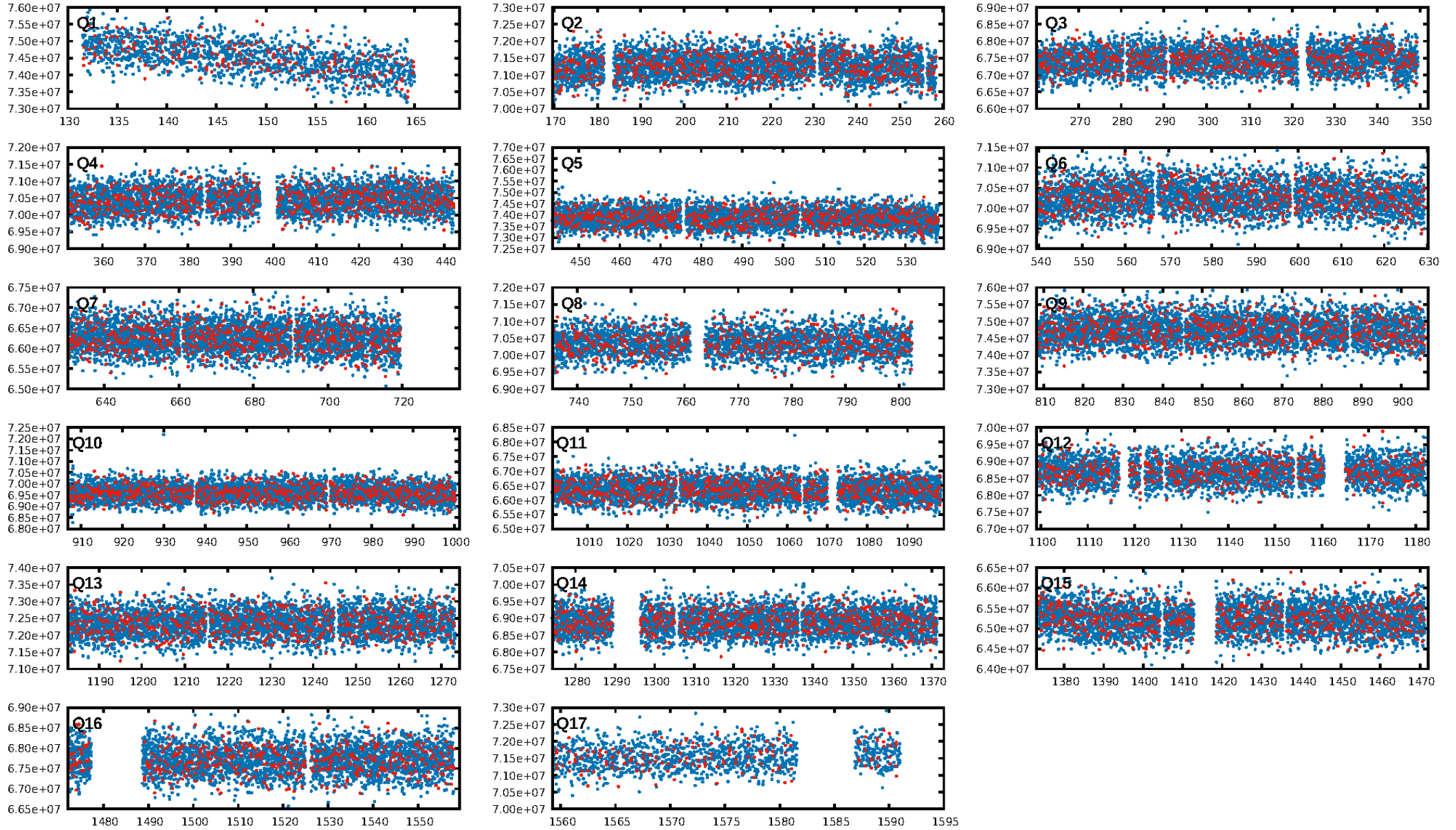
DV Fit Results:

Period = 0.56355 [0.00001] d
Epoch = 131.5990 [0.0007] BKJD
Rp/R* = 0.0170 [0.0045]
a/R* = 4.50 [6.70]
b = 0.47 [2.63]
Seff = 86067.27 [61575.38]
Teq = 4368 [781] K
Rp = 5.51 [2.86] Re
a = 0.0162 [0.0069] AU
Ag = 0.94 [0.82] [-0.07σ]
Teffp = 6655 [968] K [1.84σ]

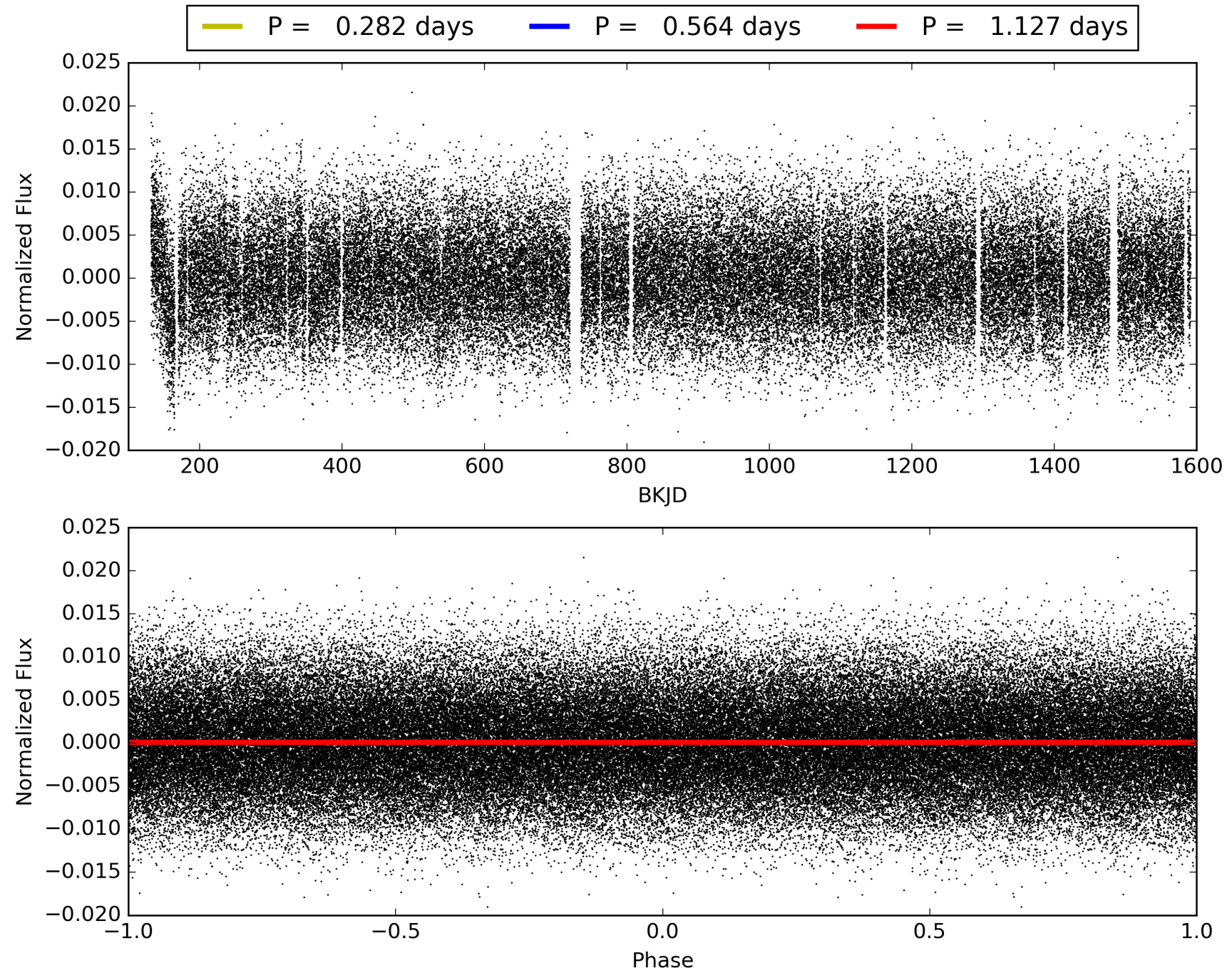
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2270/2271]
GhostDiagnostic-chr: 3.632
Centroid-sig: N/A
Centroid-so: 0.286 arcsec [1.98σ]
OotOffset-rm: 0.034 arcsec [0.20σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-rm: 0.124 arcsec [0.78σ]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.88 [14/16]
DiffImageOverlap-fno: 0.00 [0/17]

TCE 005977984-01, PDC Light Curves

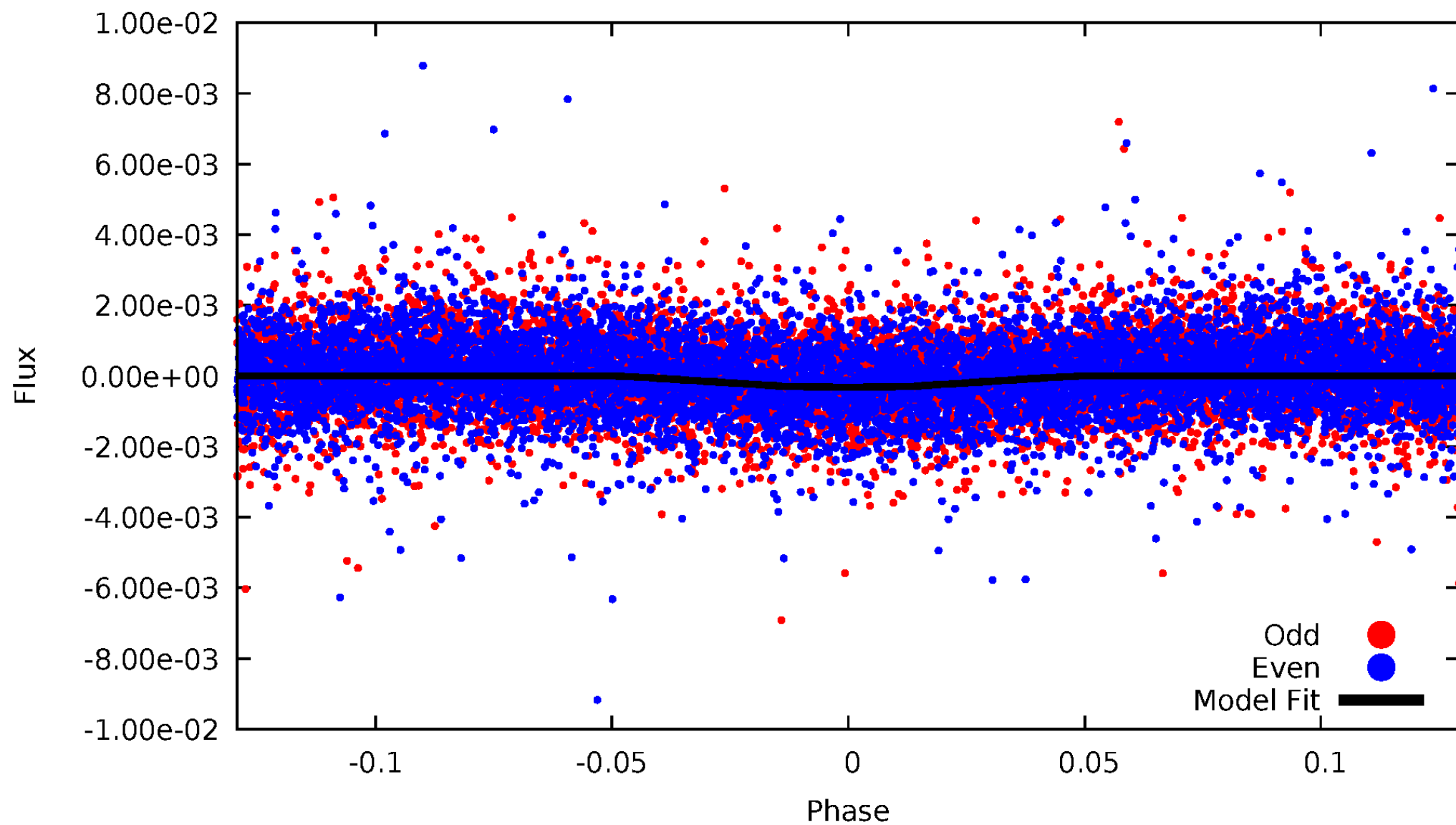


TCE 005977984-01



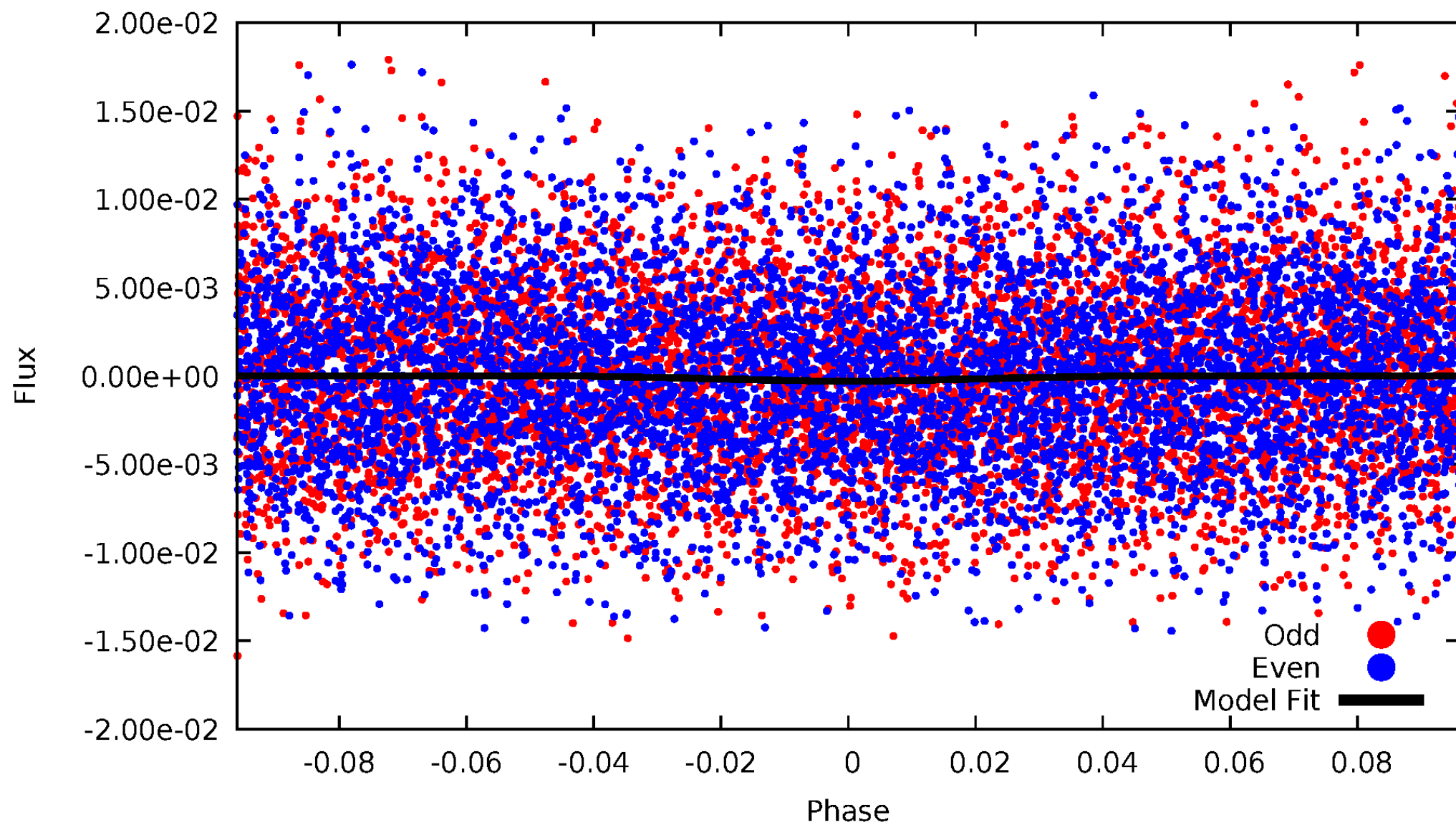
DV Odd/Even

TCE 005977984-01

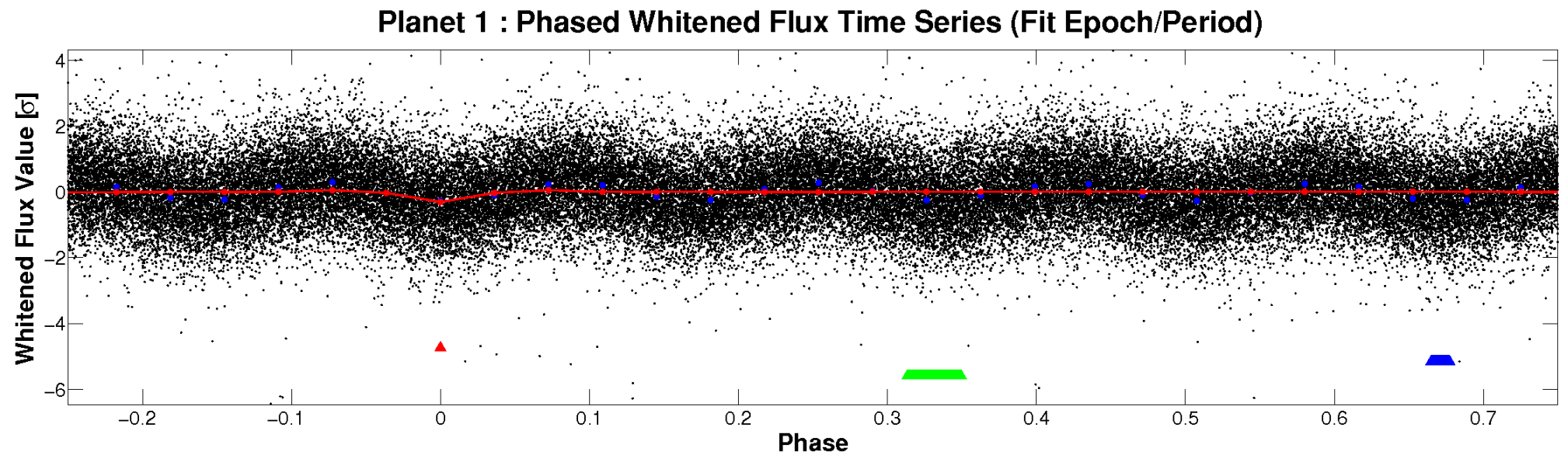
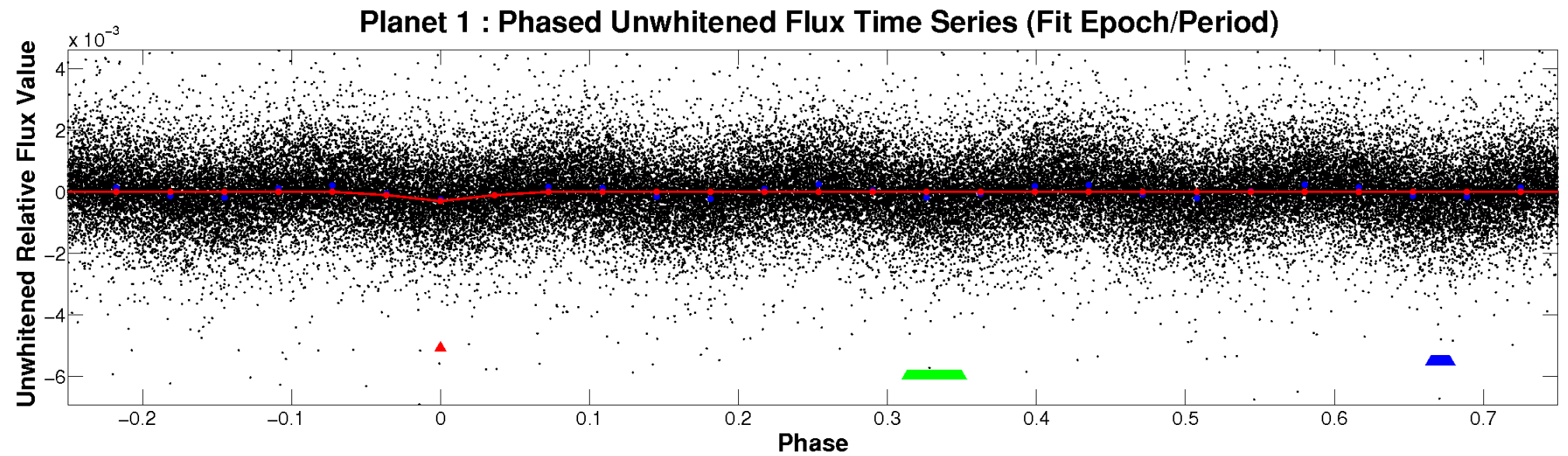


ALT Odd/Even

TCE 005977984-01

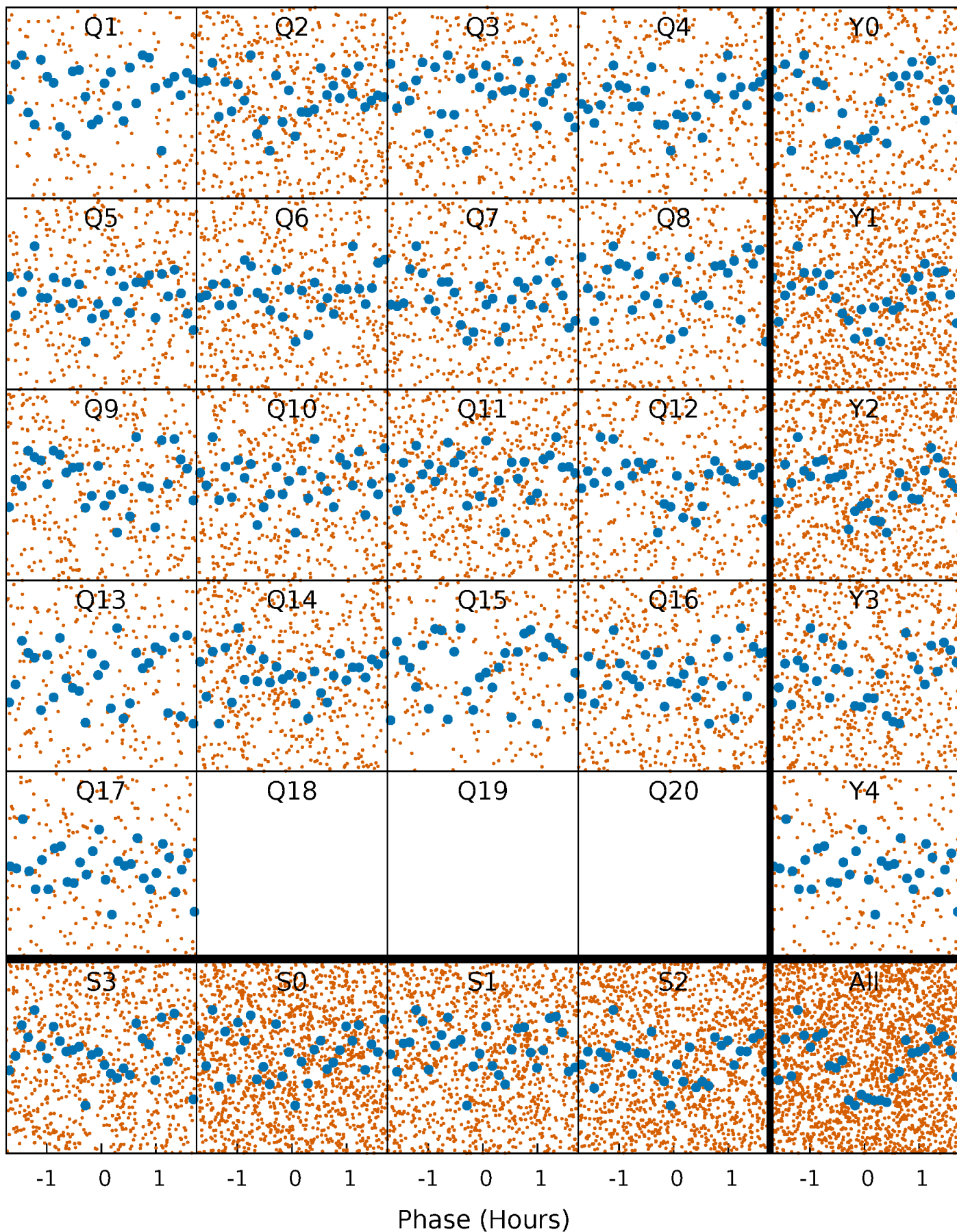


Non-Whitened Vs. Whitened Light Curve



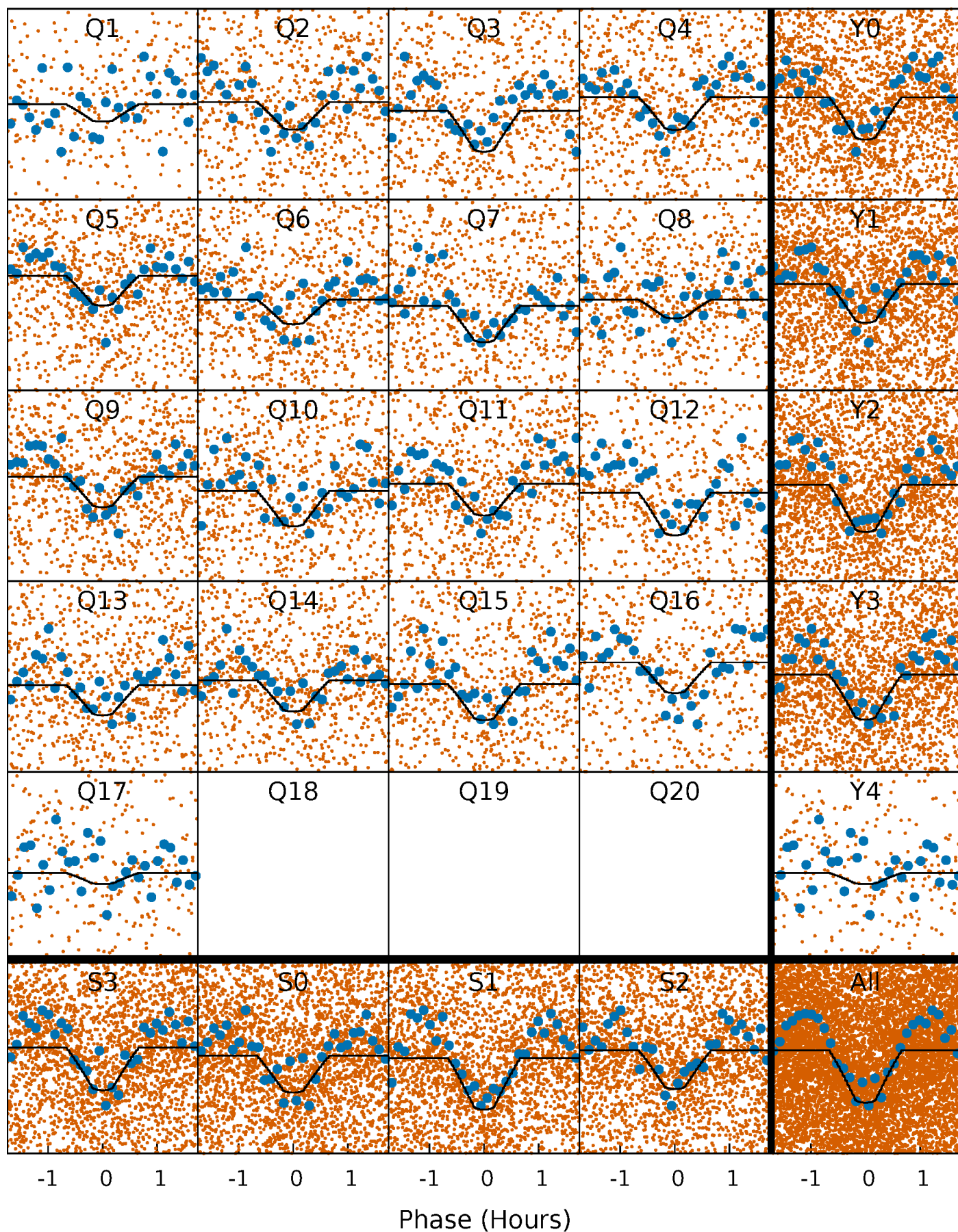
PDC Quarter-Phased Transit Curves

TCE 005977984-01 P= 0.563553 Days $T_0=131.598986$ (BKJD)



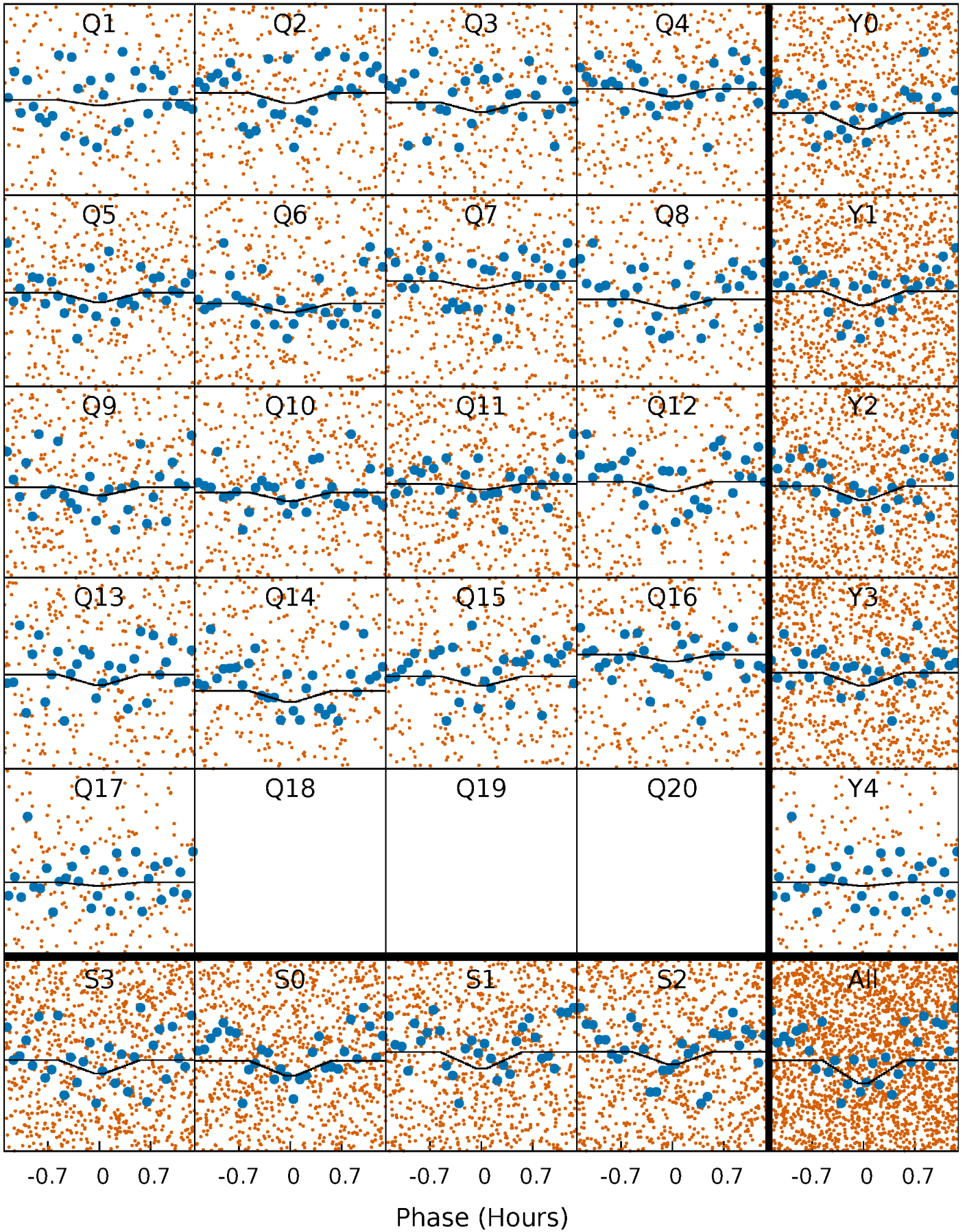
DV Quarter-Phased Transit Curves

TCE 005977984-01 P= 0.563553 Days $T_0=131.598986$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

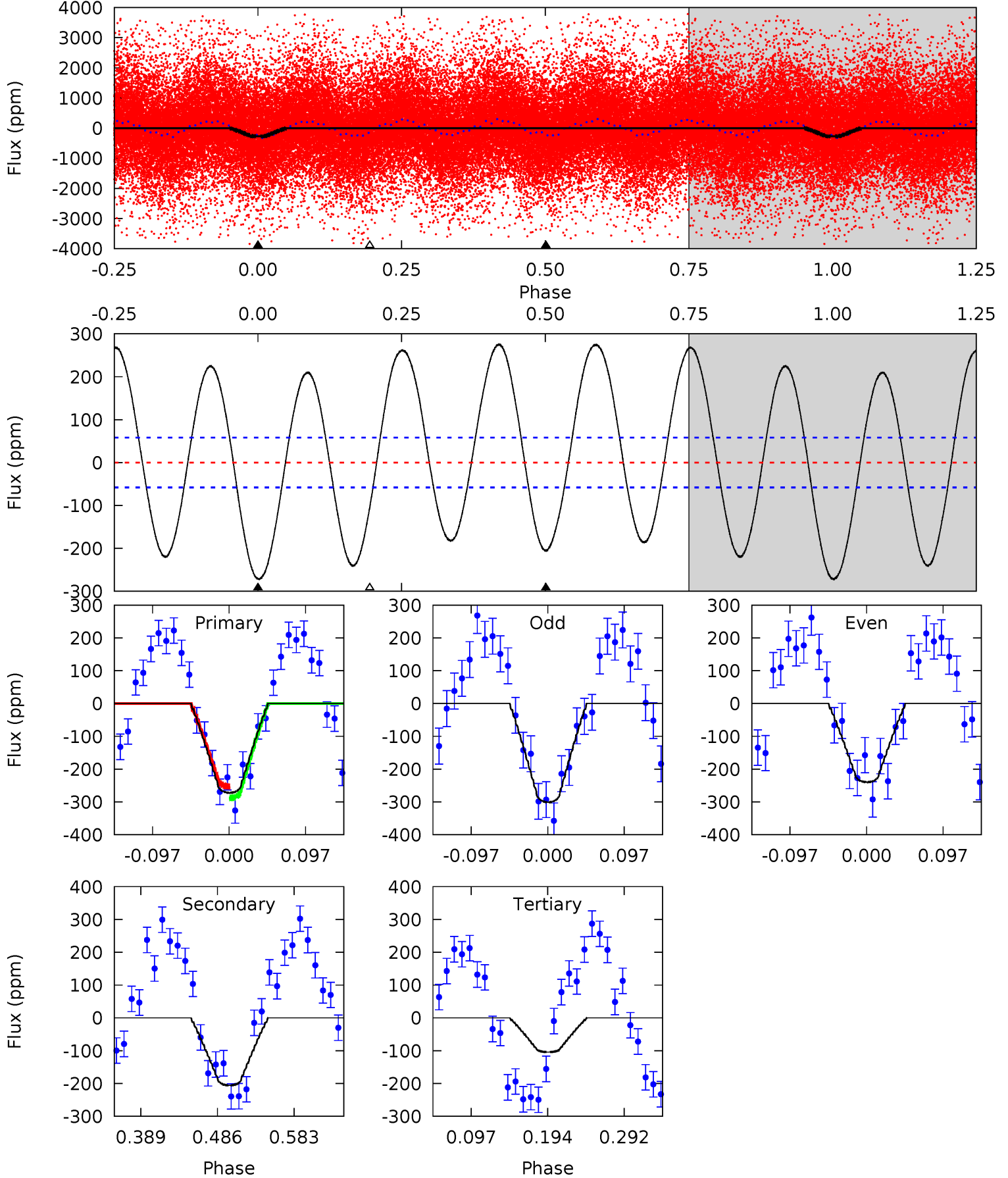
TCE 005977984-01 P= 0.563556 Days $T_0=131.599079$ (BKJD)



DV Model-Shift Uniqueness Test

005977984-01, P = 0.563553 Days, E = 131.035433 Days

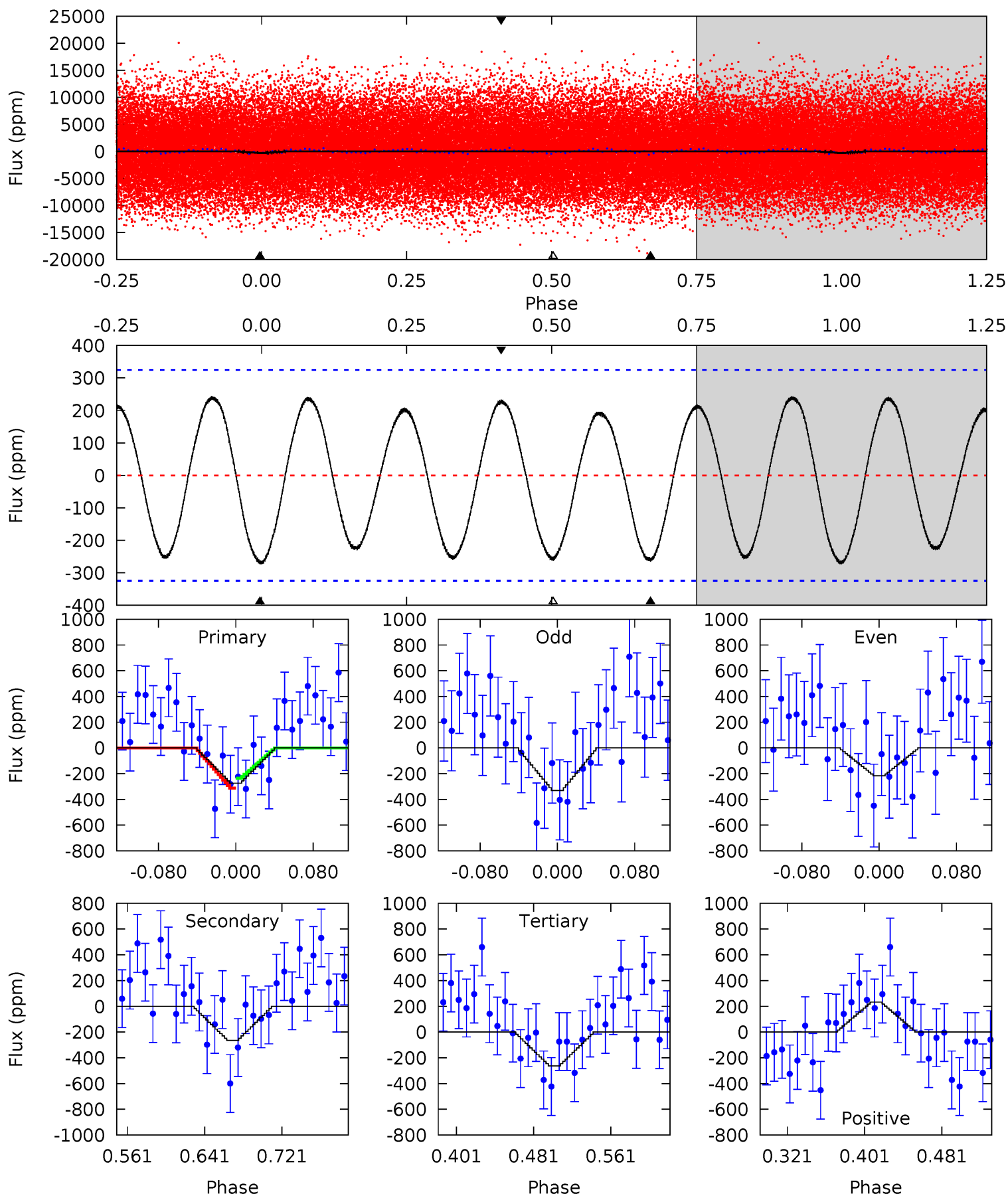
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.4	16.2	8.21	0	4.57	1.66	12.6	13.2	21.4	7.99	16.2	2.43	1.07	0.50	1.41



Alt Model-Shift Uniqueness Test

005977984-01, P = 0.563556 Days, E = 131.035523 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.89	3.77	3.74	3.31	4.61	1.75	2.35	0.15	0.57	0.03	0.46	0.81	0.57	0.47	0.54



Stellar Parameters For KIC 005977984

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7311^{+251}_{-395}	$3.745^{+0.400}_{-0.100}$	$-0.020^{+0.200}_{-0.350}$	$2.978^{+0.442}_{-1.326}$	$1.799^{+0.177}_{-0.412}$	$0.096^{+0.368}_{-0.029}$
	+3%/-5%	+11%/-3%	+1000%/-1750%	+15%/-45%	+10%/-23%	+383%/-30%
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 005977984-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-206 ± 13	$5.04^{+2.03}_{-1.62}$	5934^{+434}_{-722}	6106^{+1437}_{-1113}	$1.158^{+1.332}_{-0.546}$
Alt.	-265 ± 70	$5.07^{+1.71}_{-1.74}$	5940^{+437}_{-700}	6655^{+1958}_{-1228}	$1.488^{+1.988}_{-0.727}$

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 $A_{obs} \gg 1.0$

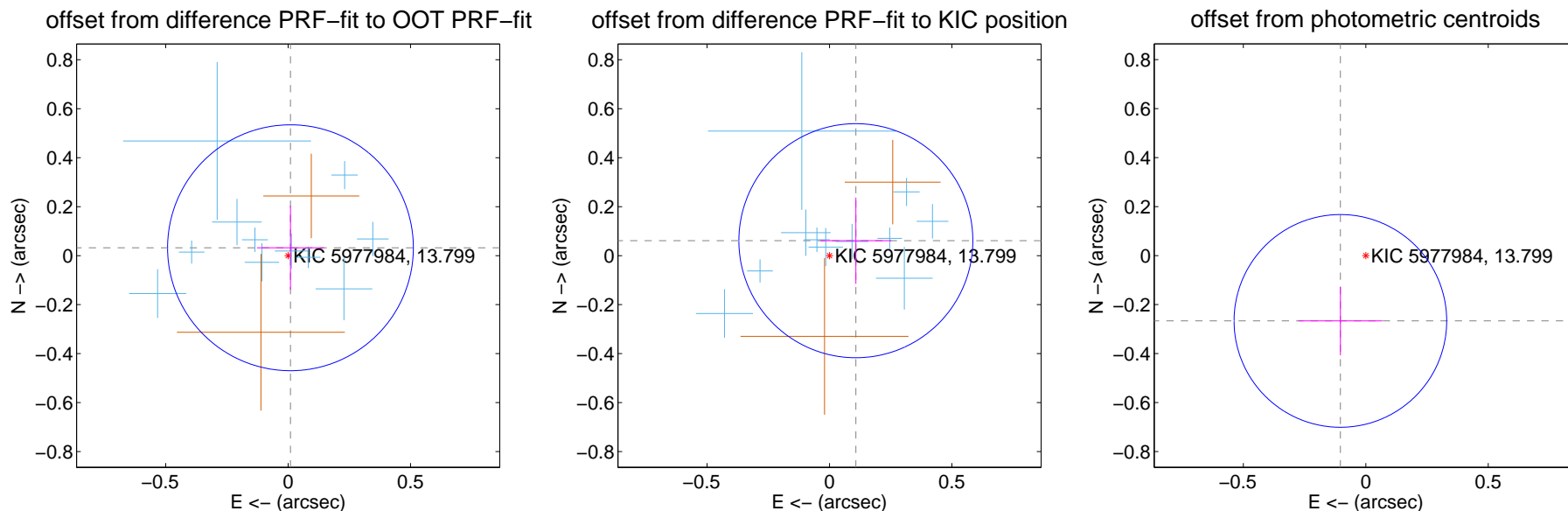
DV Centroid Data

Supplemental centroid analysis for 005977984-01. Kepler magnitude: 13.80. Transit SNR 17.32

There are 14 quarters with good PRF difference image offsets

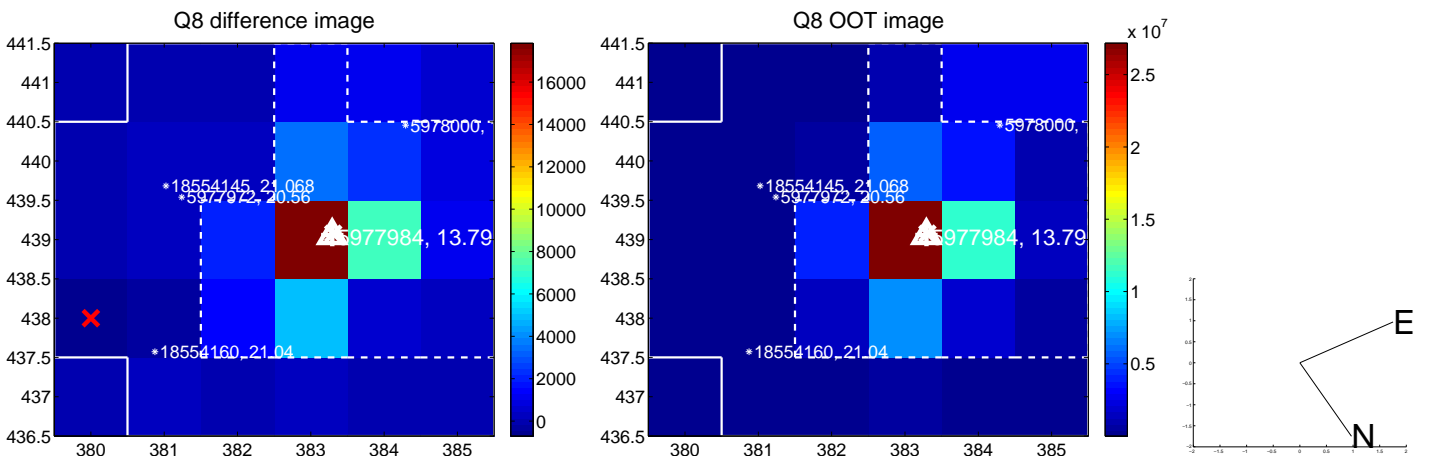
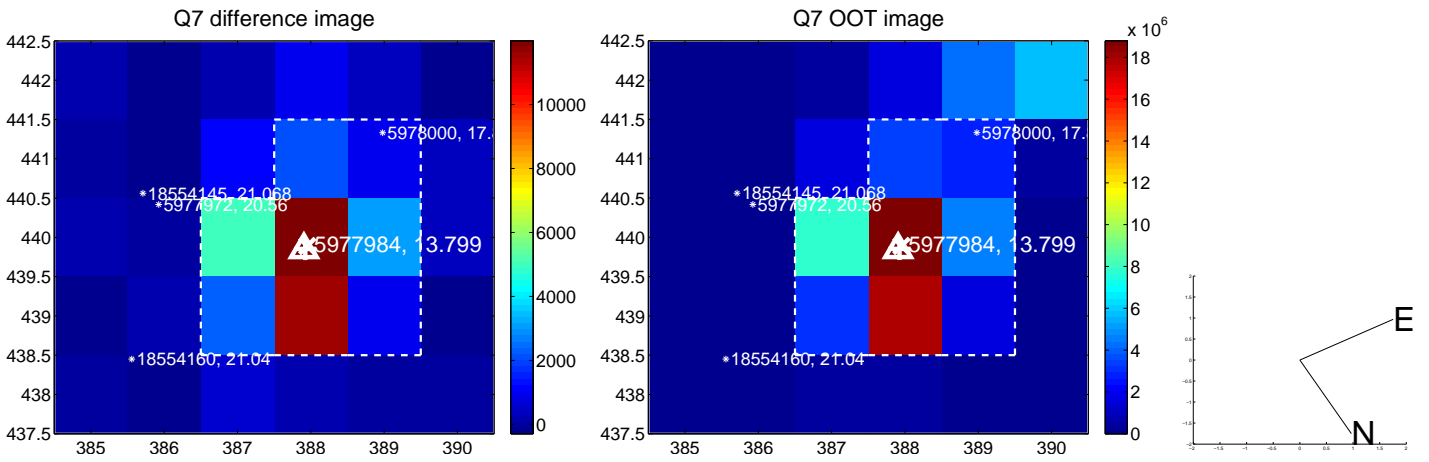
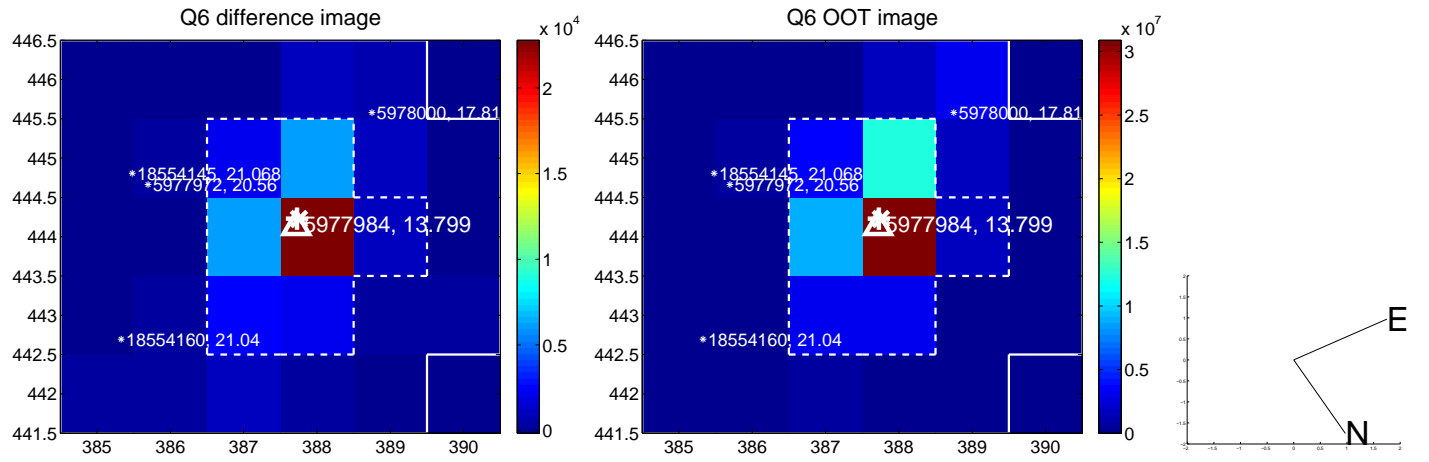
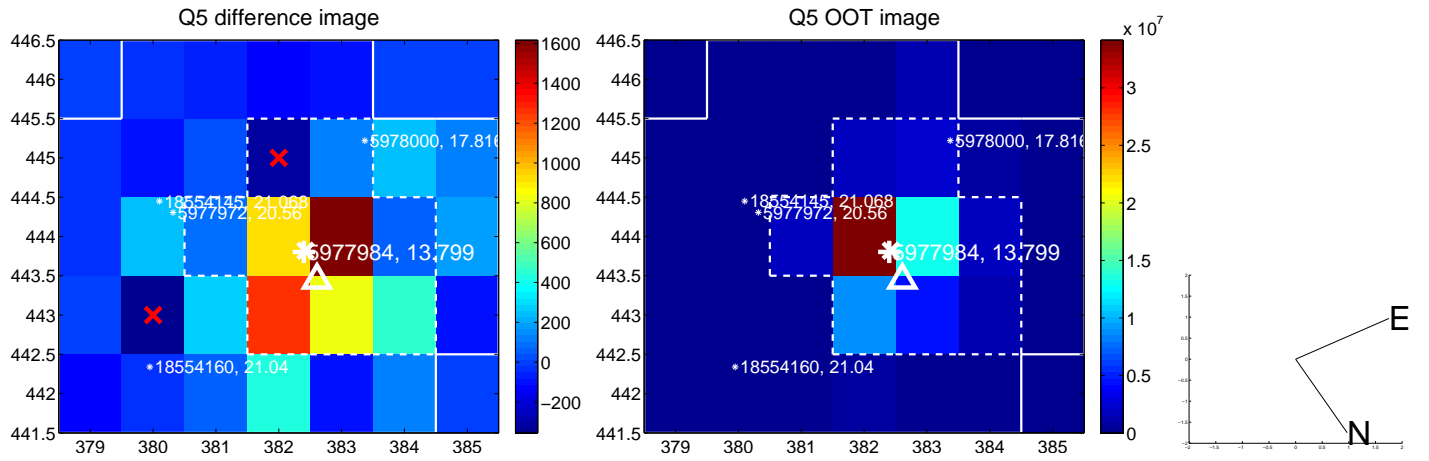
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.034 ± 0.167	0.20	-0.010 ± 0.137	0.032 ± 0.171
PRF-fit source offset from KIC position	0.124 ± 0.159	0.78	-0.108 ± 0.145	0.061 ± 0.176
photometric centroid source offset	0.29 ± 0.14	1.98	0.10 ± 0.17	-0.27 ± 0.14

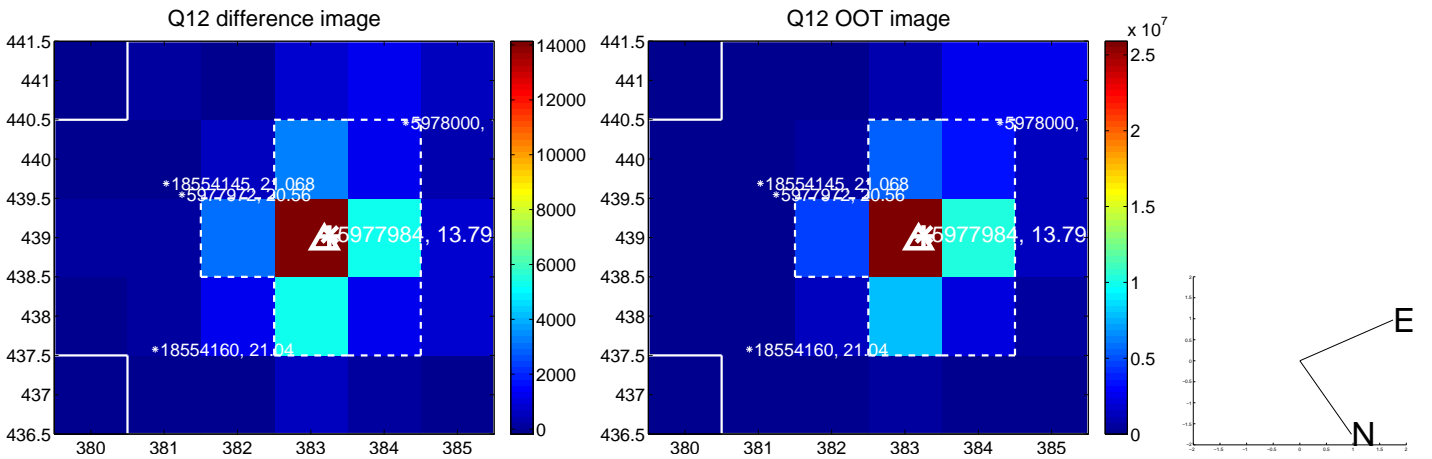
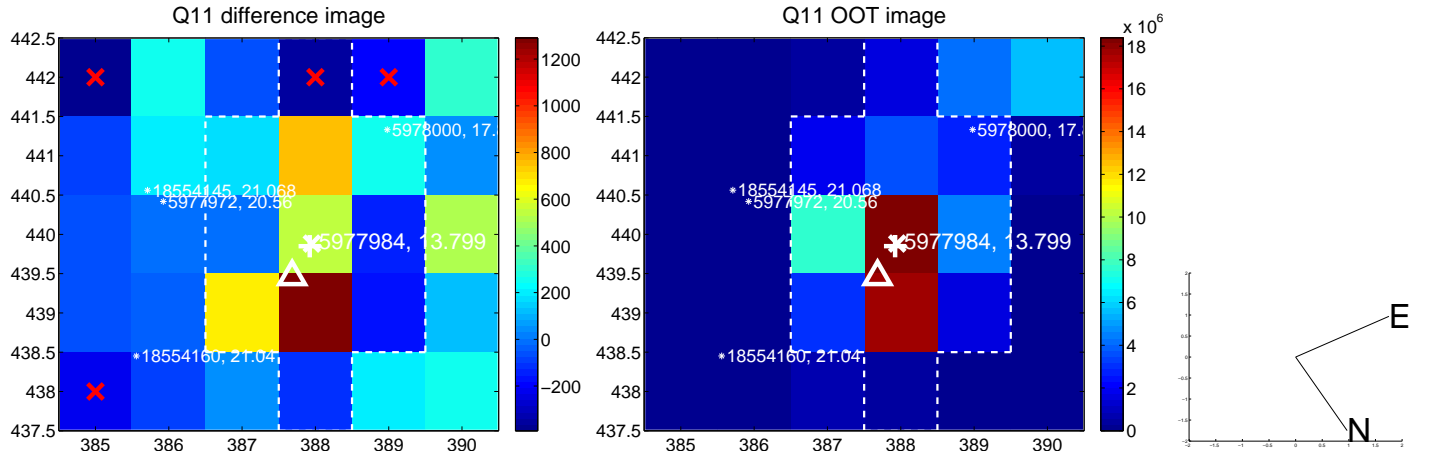
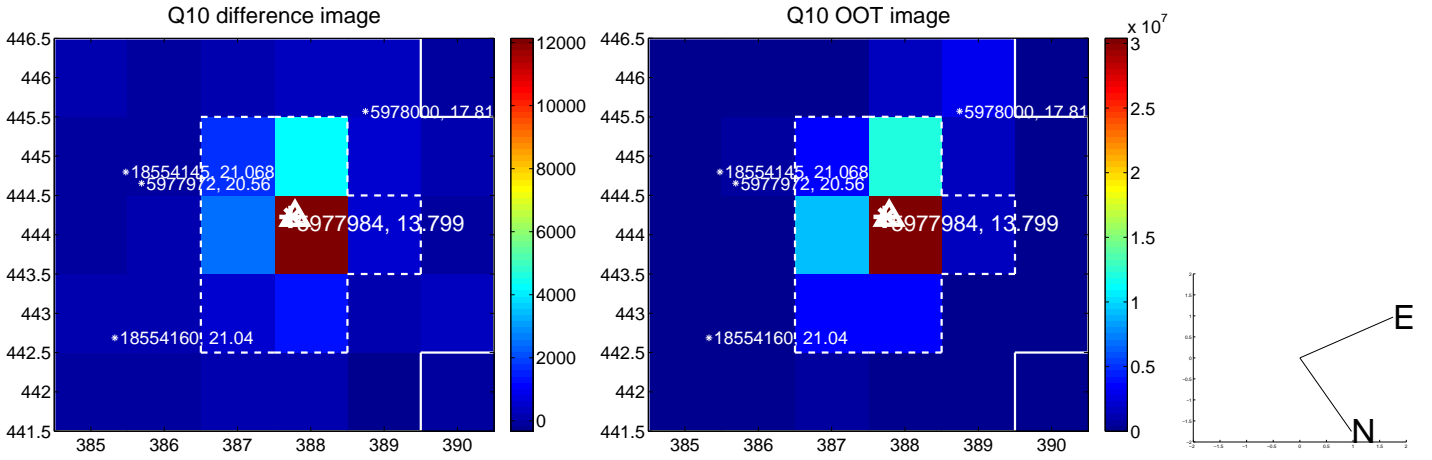
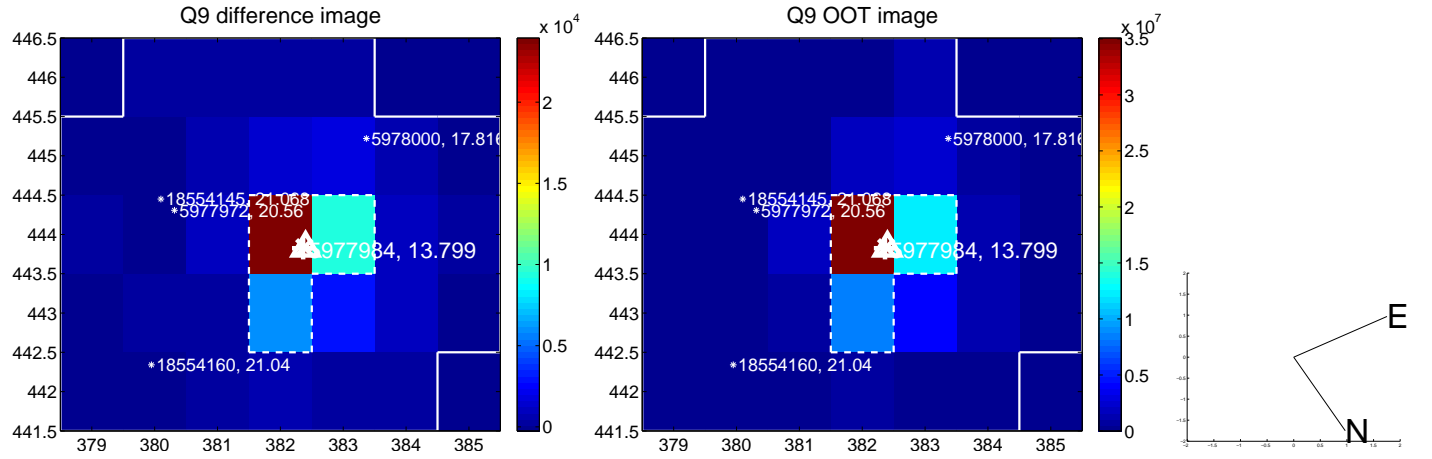


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

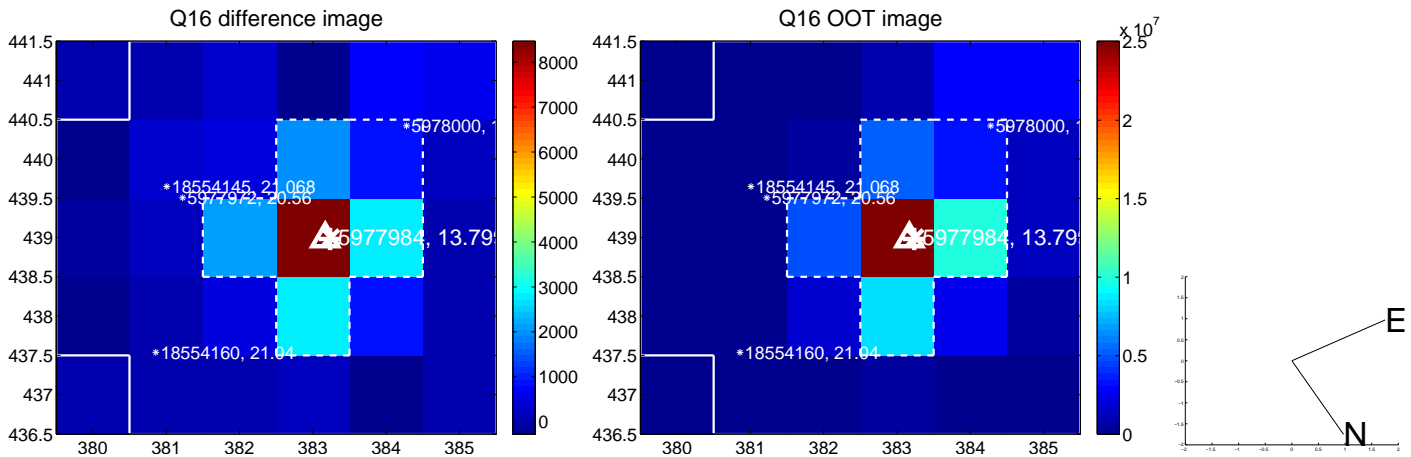
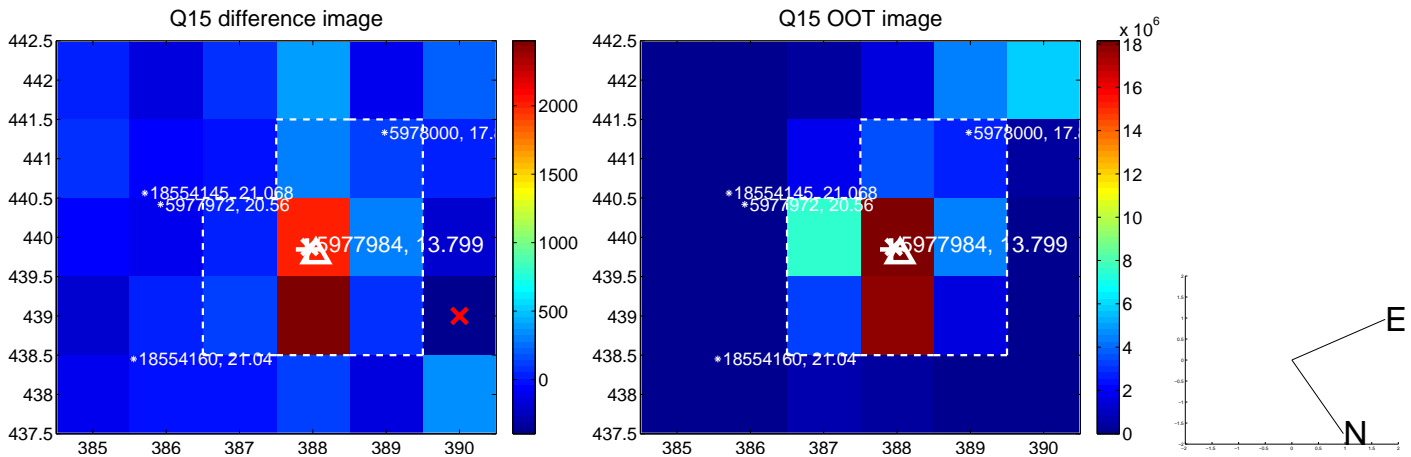
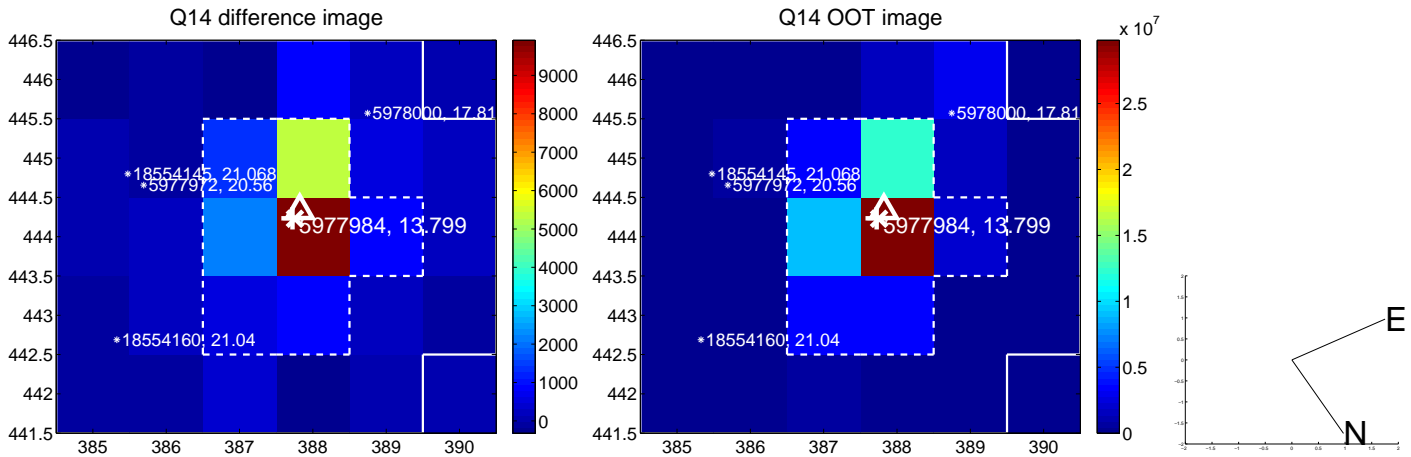
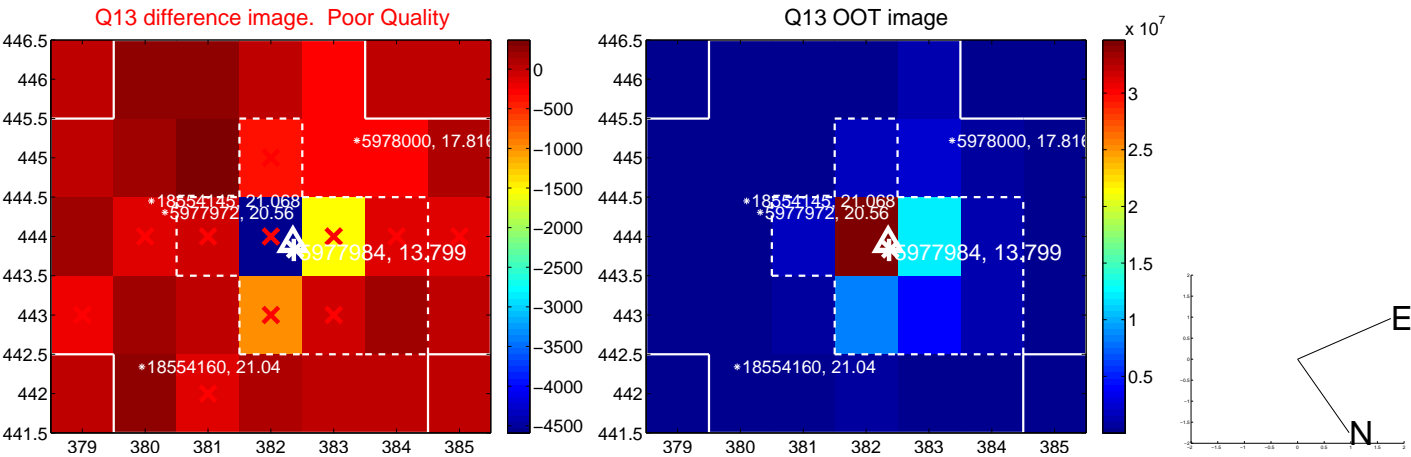
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



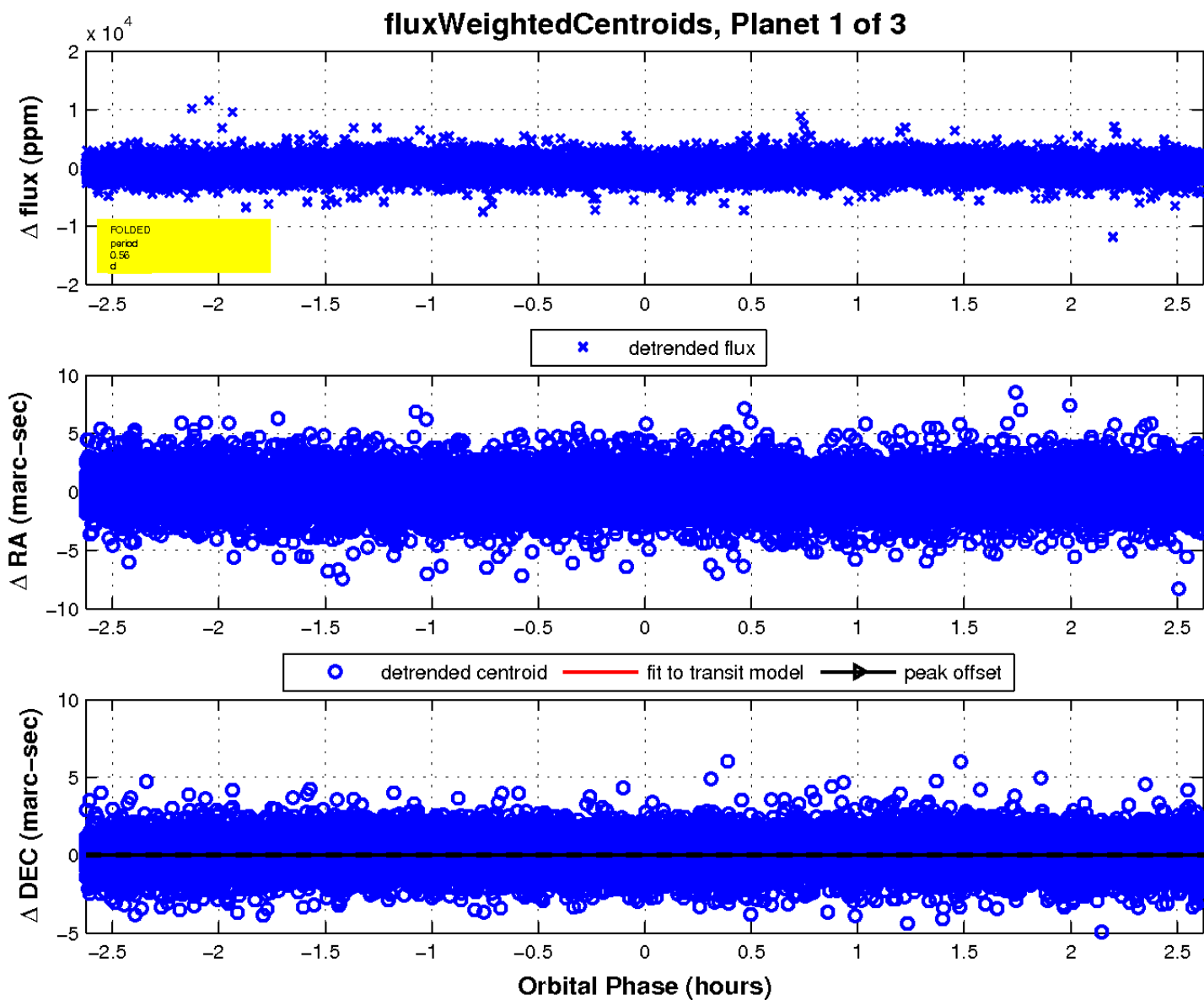
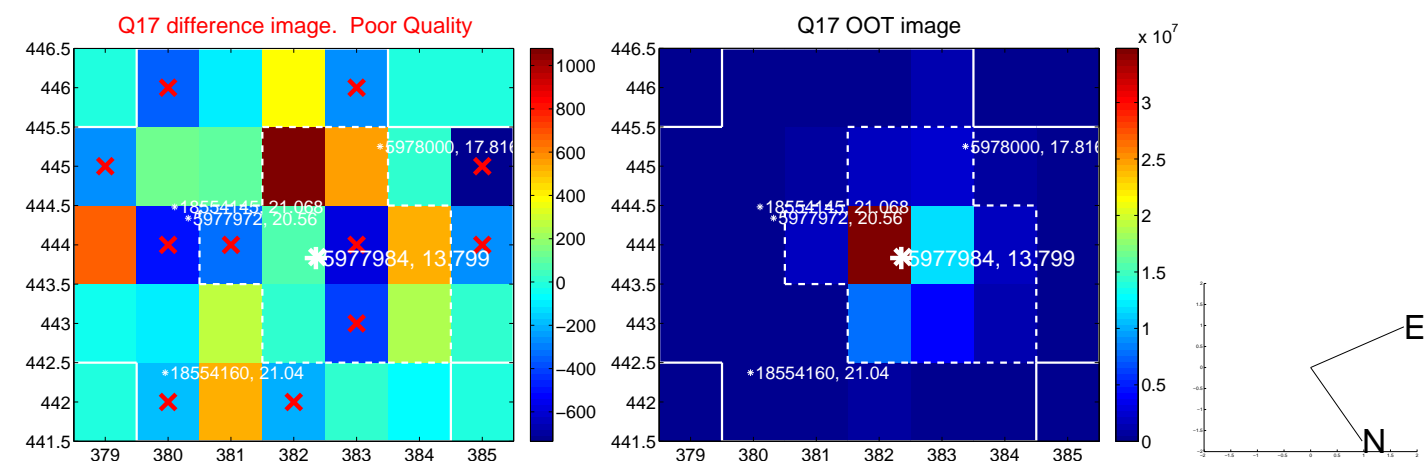
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

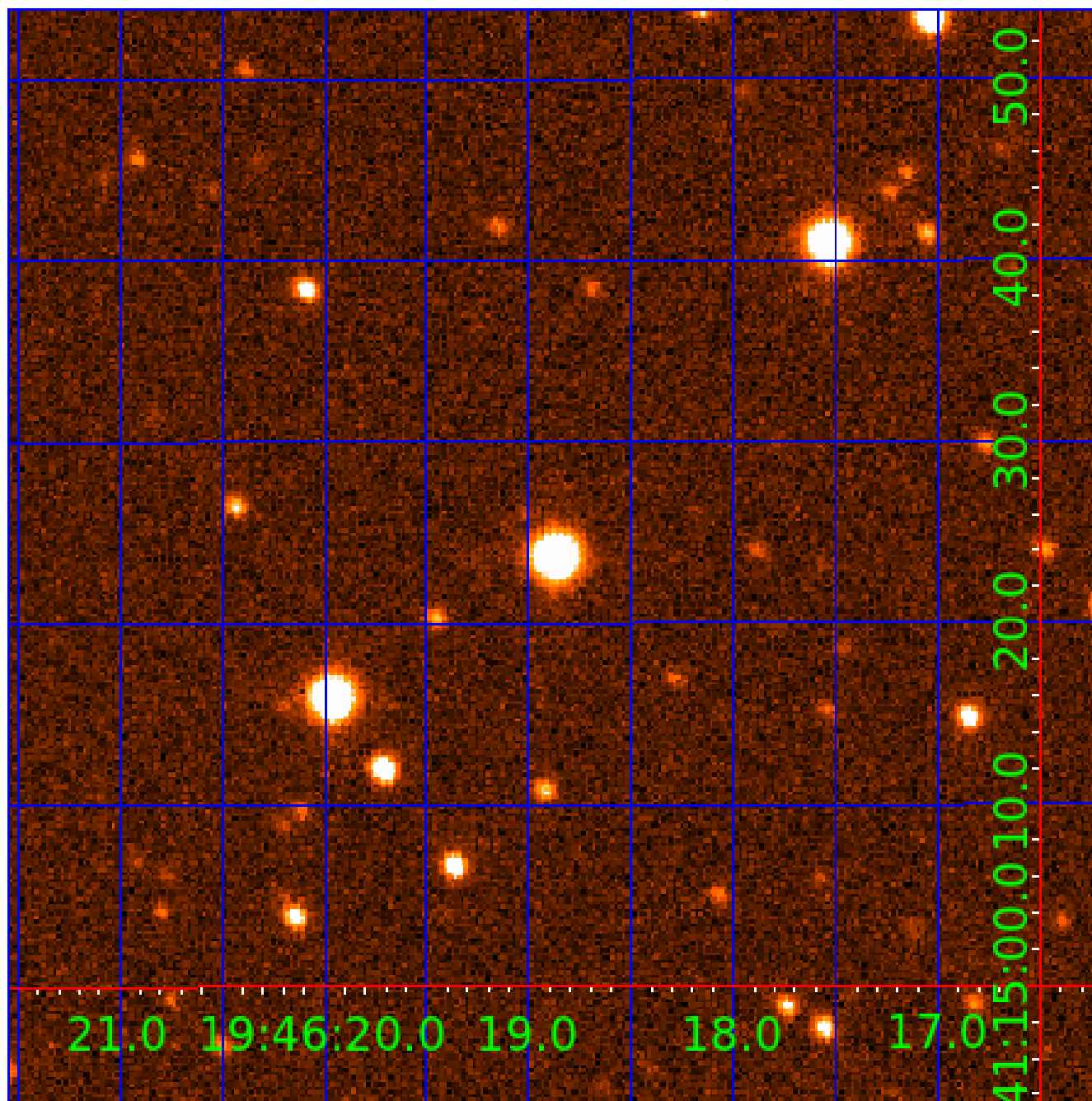


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005977984

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})
005977984-01	OBS	No	0.563553	131.598986	313.6	0.875	17.9	17.3	2.98	7311	5.51	86067.27
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005977984-03	OBS	No	0.563561	131.775593	336.1	1.170	13.7	19.7	2.98	7311	6.36	86065.67

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005977984-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005977984-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005977984-03	OBS	FP	0.00	1	0	0	0	LPP_DV—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.

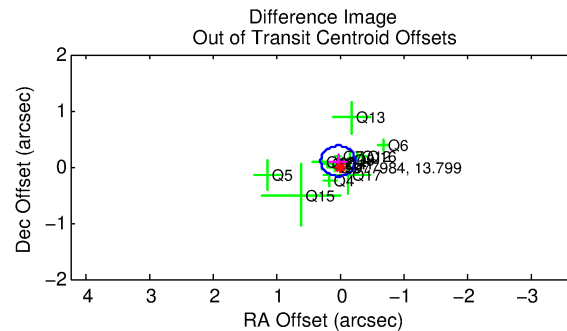
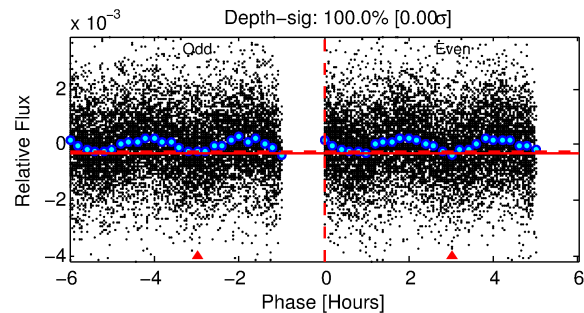
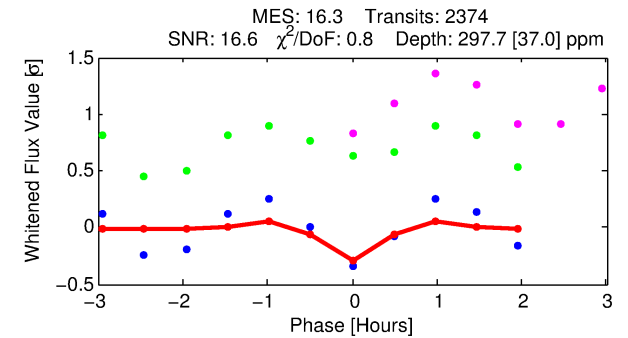
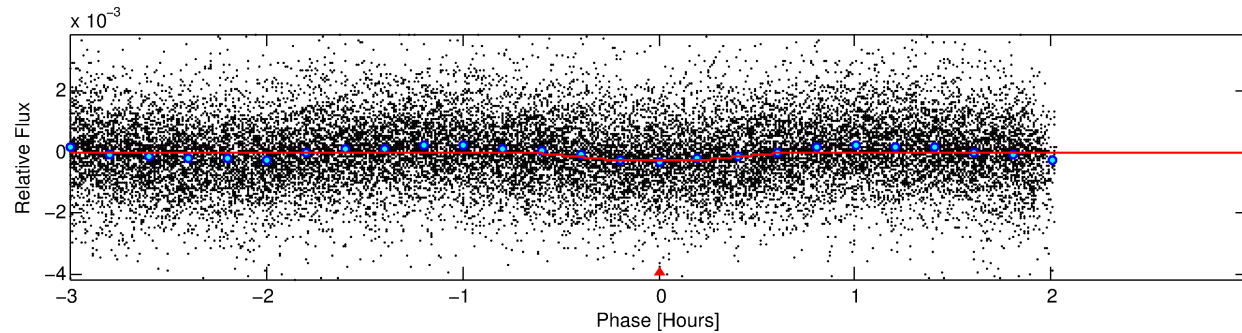
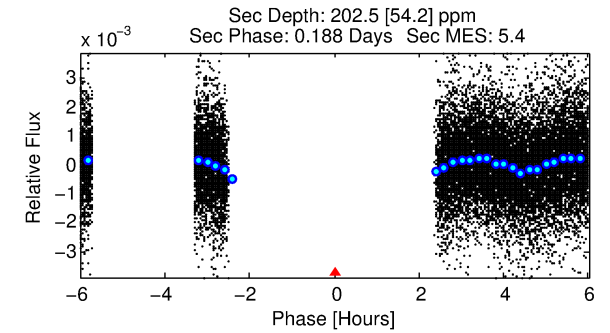
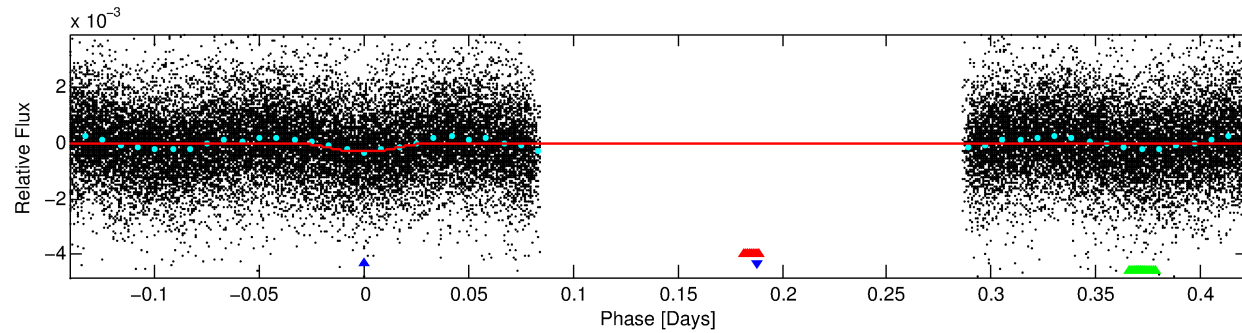
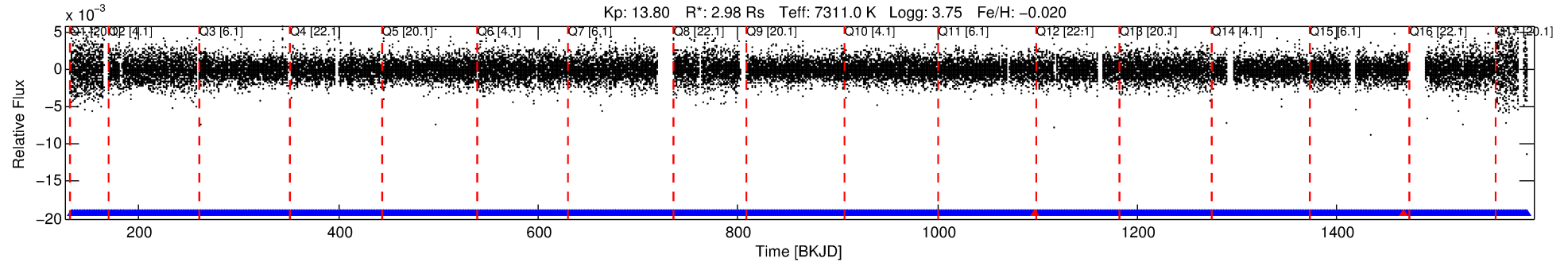
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005977984-02

No Significant Match Found

DV One-Page Summary

KIC: 5977984 Candidate: 2 of 3 Period: 0.564 d



DV Fit Results:

Period = 0.56356 [0.00001] d
Epoch = 131.9737 [0.0008] BKJD
Rp/R* = 0.0185 [0.0043]
a/R* = 2.26 [2.57]
b = 0.90 [0.30]
Seff = 86066.72 [61574.98]
Teq = 4368 [781] K
Rp = 6.00 [3.02] Re
a = 0.0162 [0.0069] AU
Ag = 0.82 [0.71] [-0.26σ]
Teffp = 6418 [931] K [1.69σ]

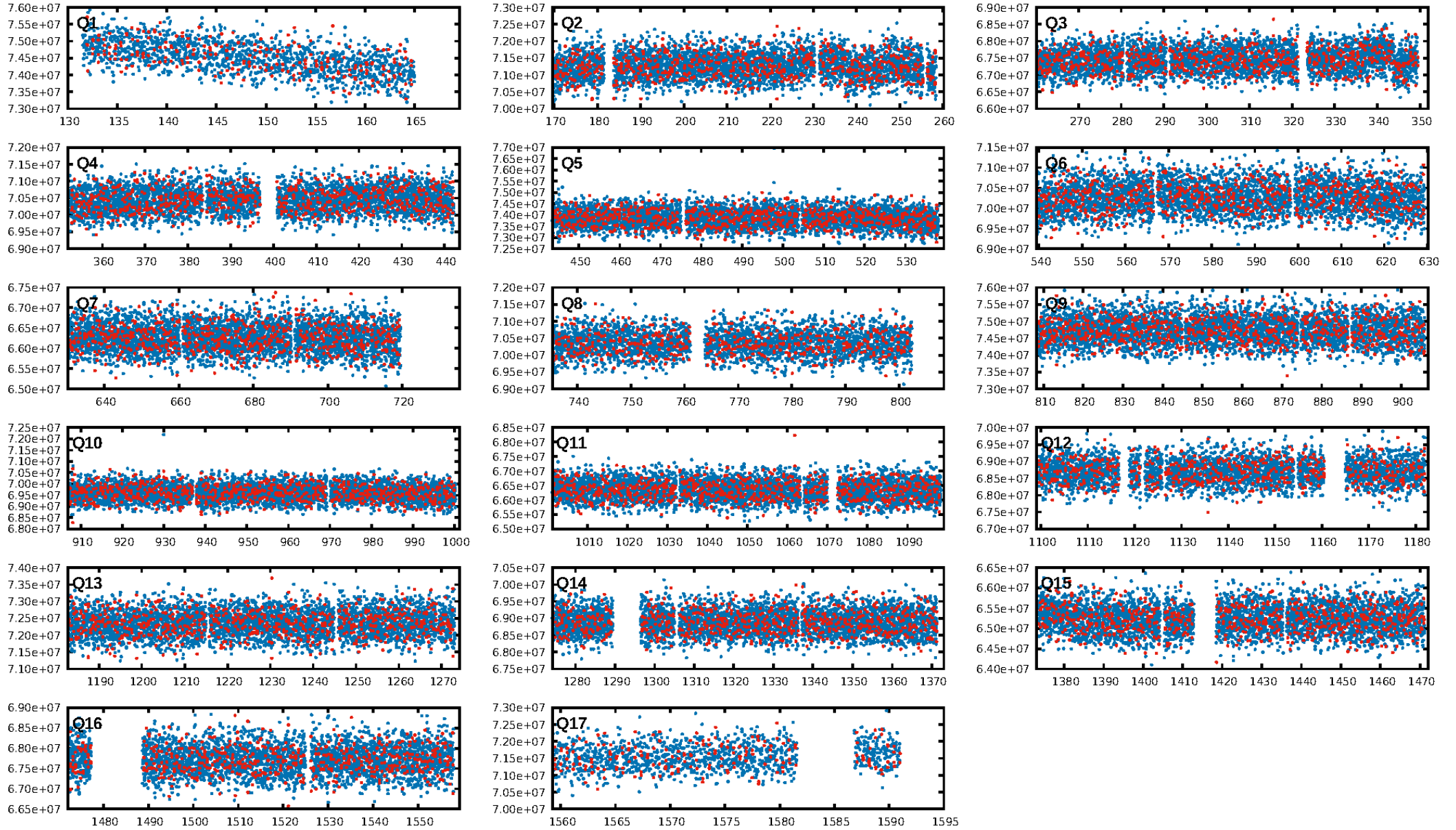
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2265/2267]
GhostDiagnostic-chr: 5.883
Centroid-sig: N/A
Centroid-so: 0.495 arcsec [2.88σ]
OotOffset-rm: 0.108 arcsec [1.20σ]
KicOffset-rm: 0.119 arcsec [0.95σ]
OotOffset-st: 4/3/4/4 [15]
KicOffset-st: 4/3/4/4 [15]
DiffImageQuality-fgm: 0.93 [14/15]
DiffImageOverlap-fno: 0.00 [0/17]

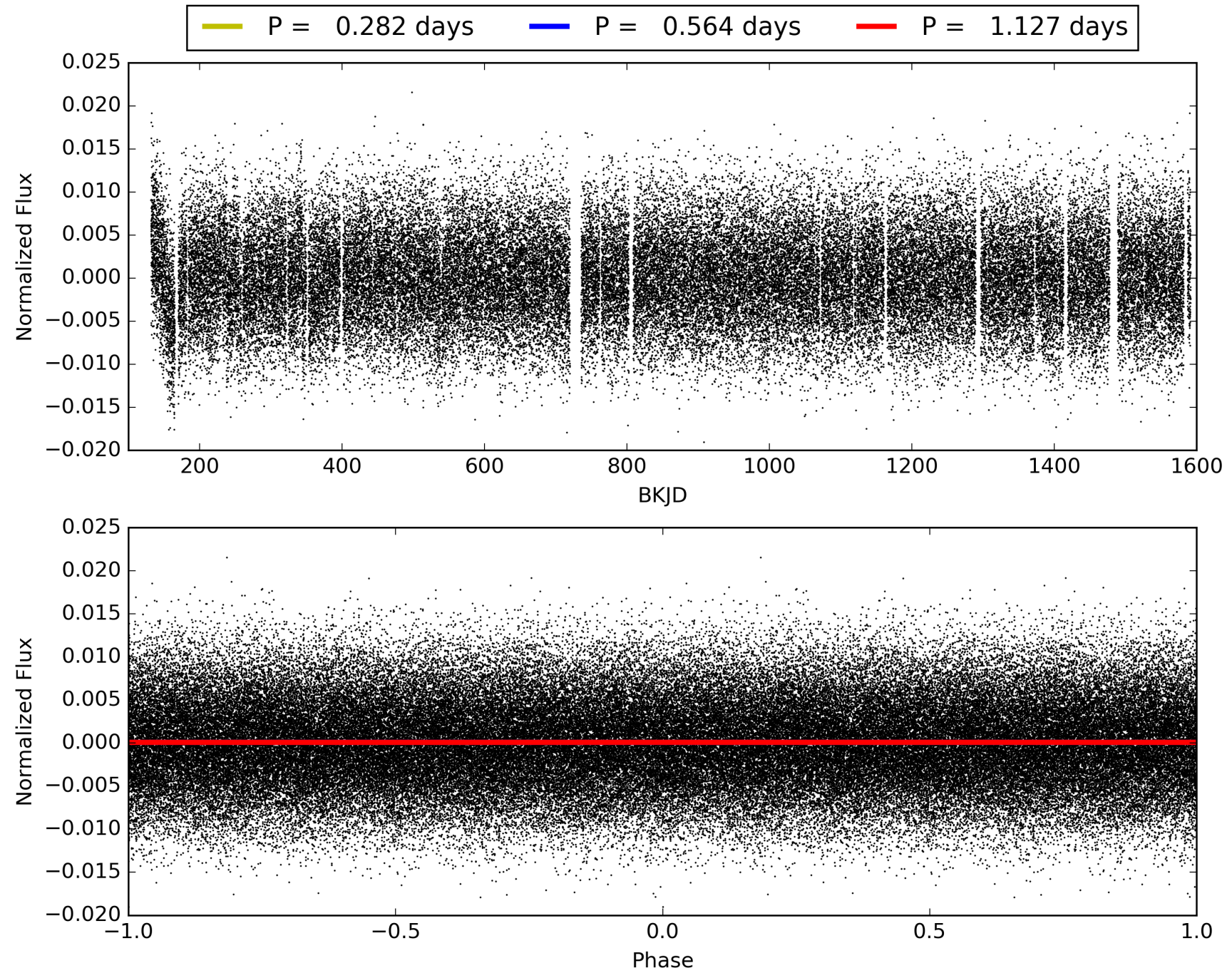
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:06:05 Z

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

TCE 005977984-02, PDC Light Curves

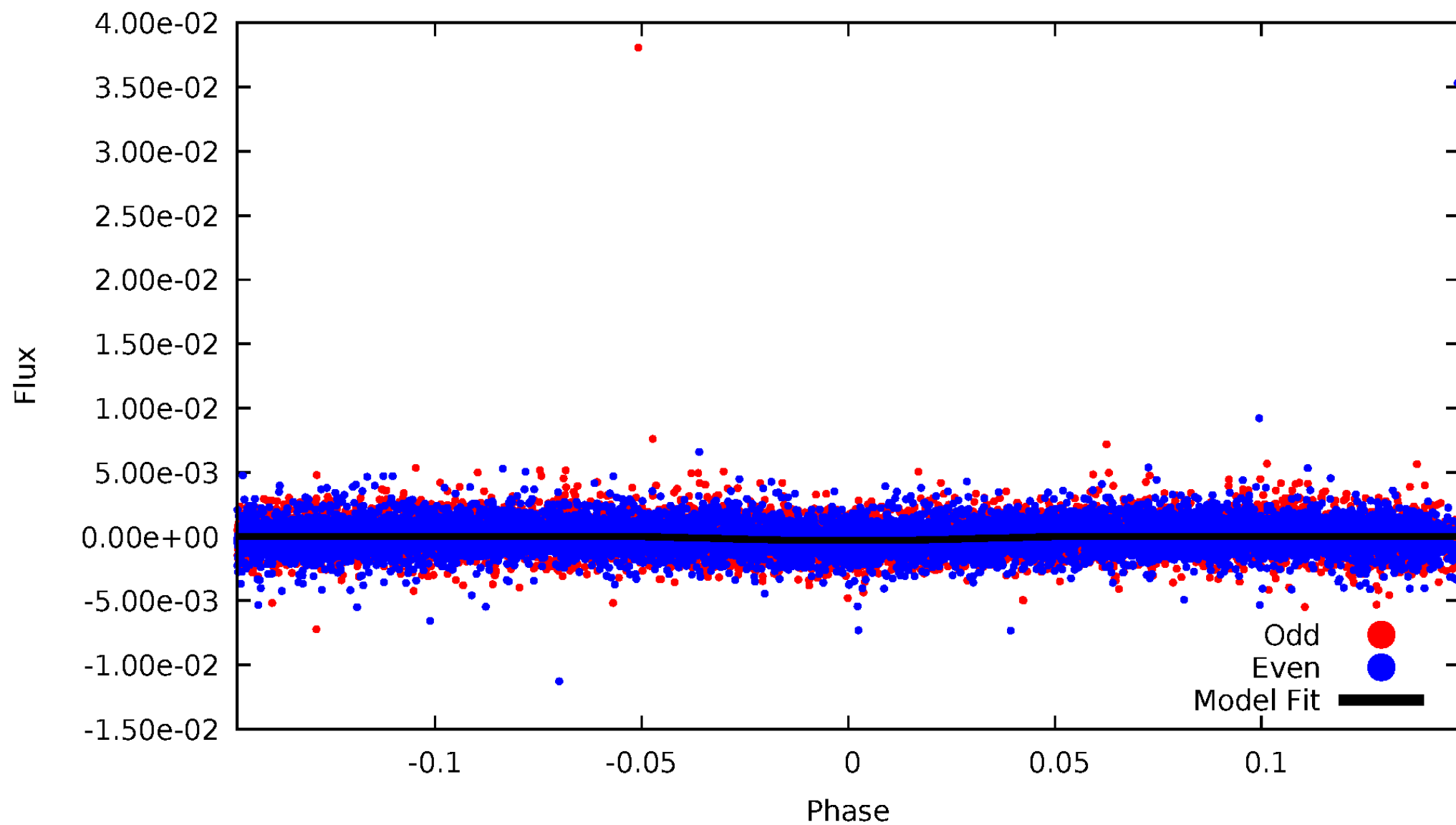


TCE 005977984-02



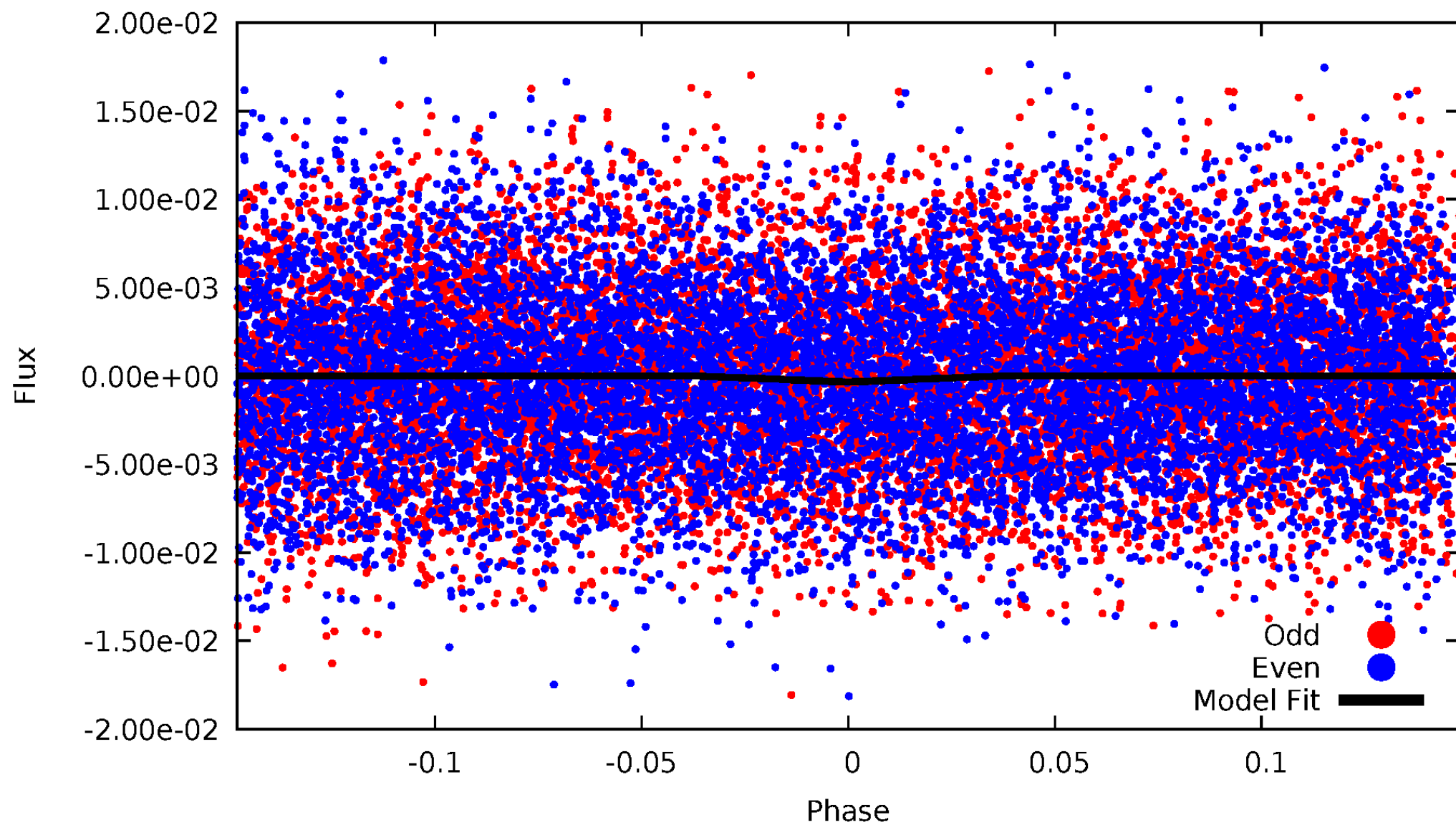
DV Odd/Even

TCE 005977984-02



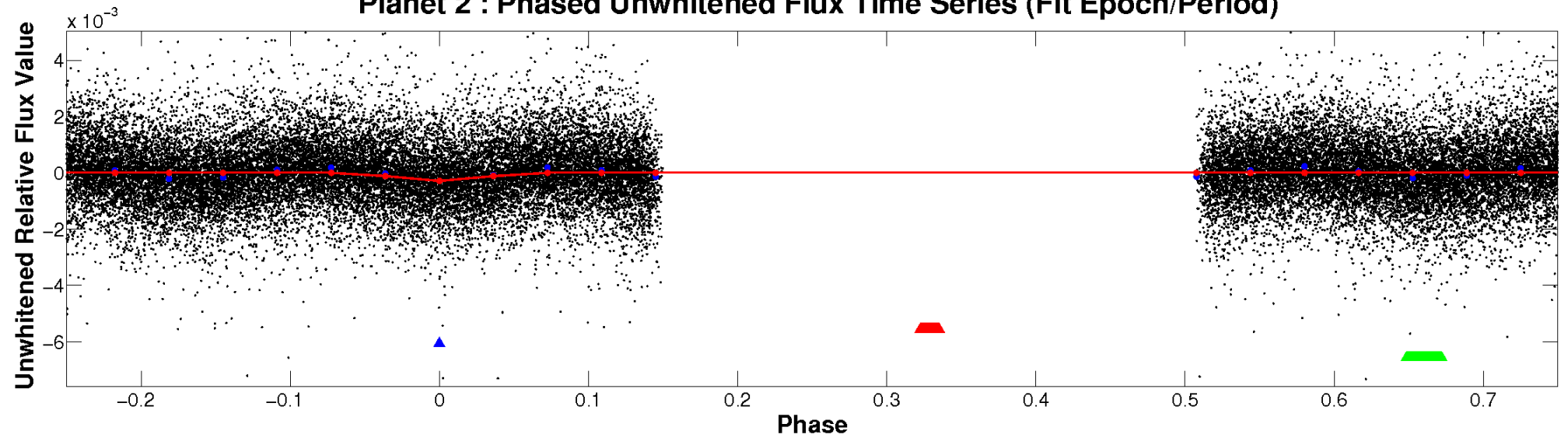
ALT Odd/Even

TCE 005977984-02

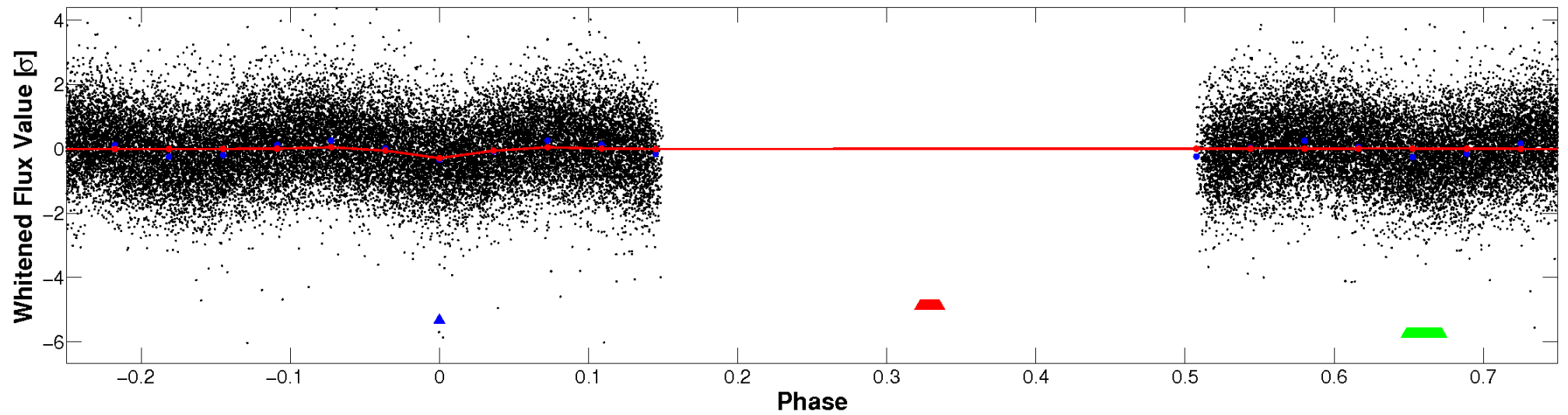


Non-Whitened Vs. Whitened Light Curve

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

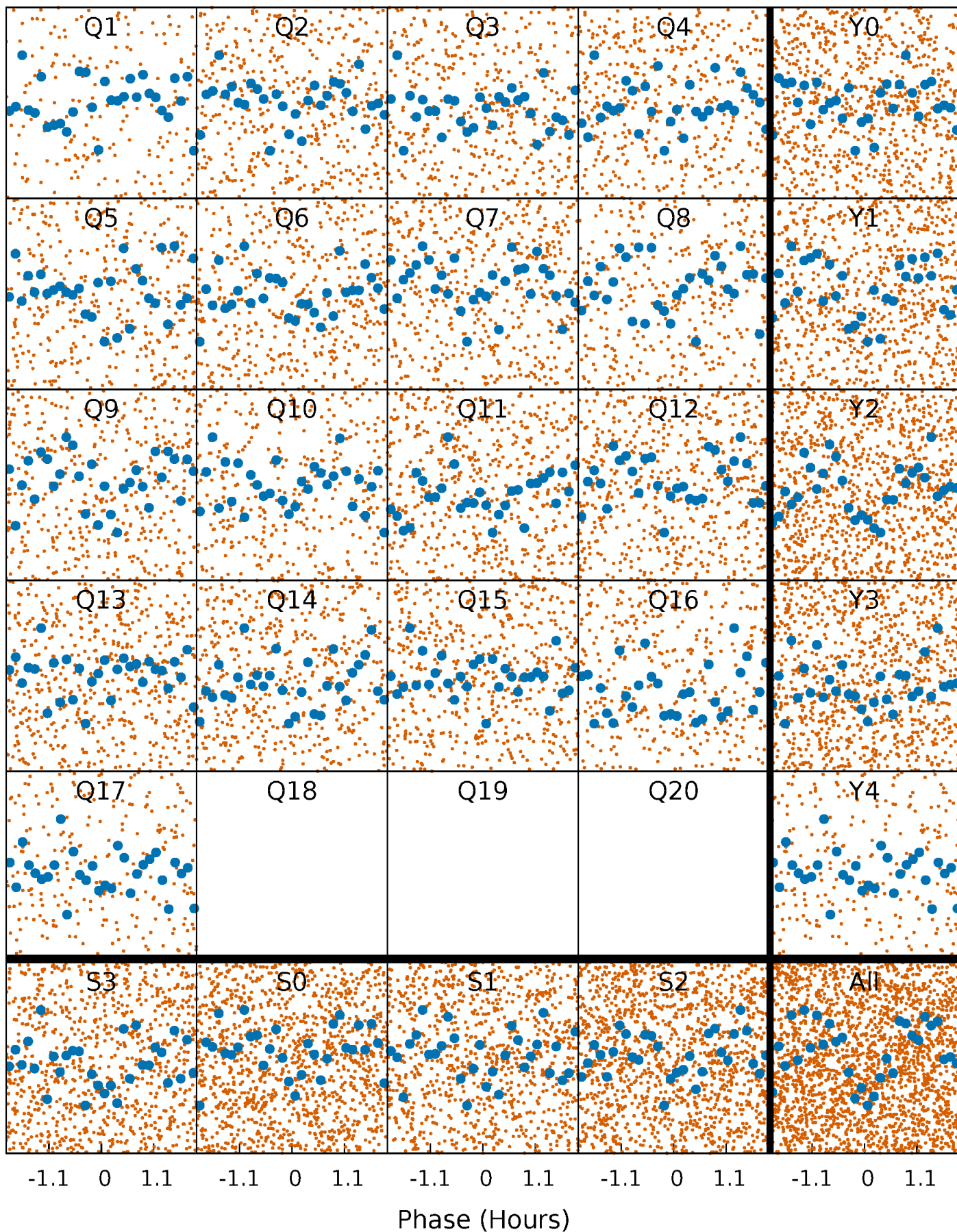


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



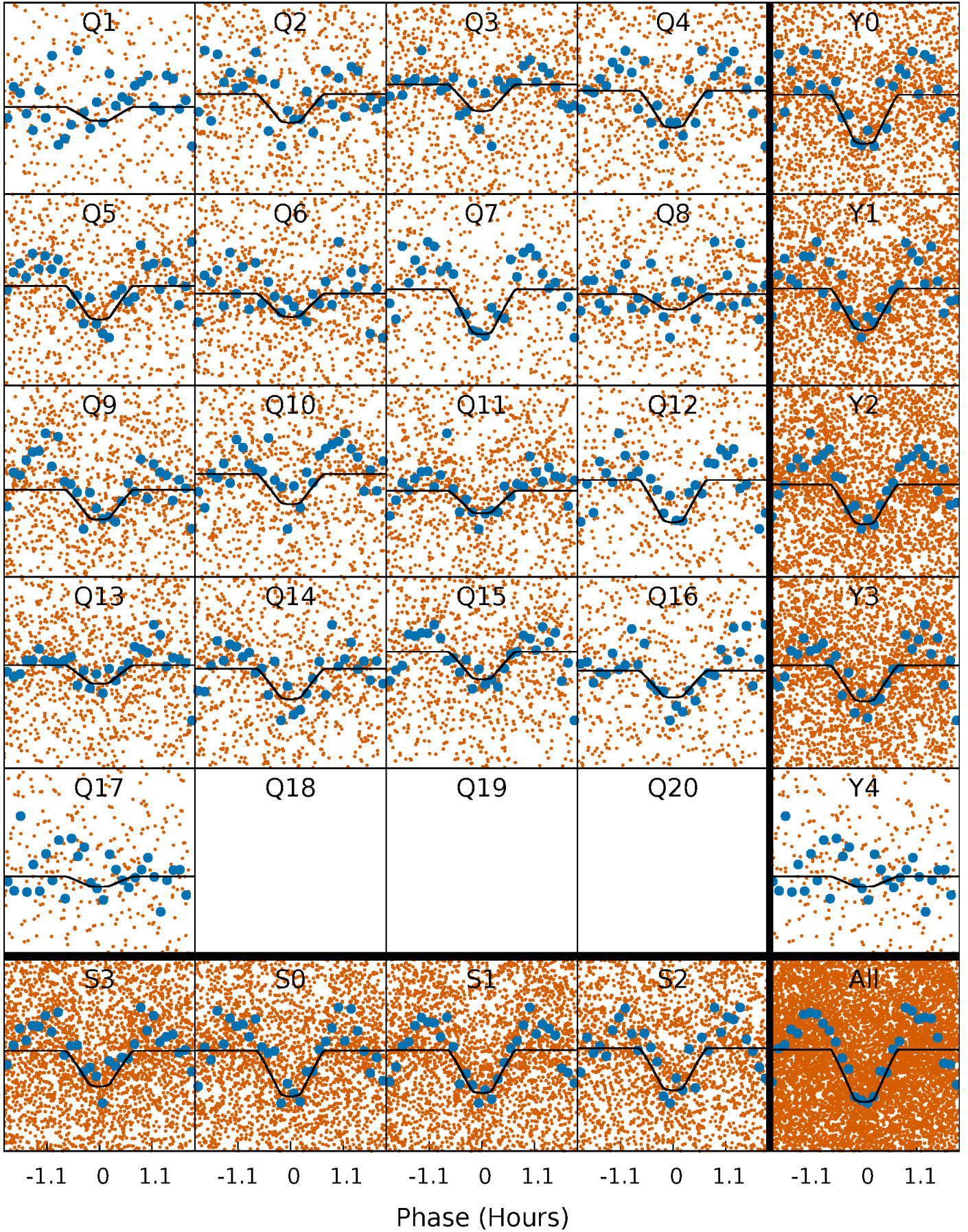
PDC Quarter-Phased Transit Curves

TCE 005977984-02 P= 0.563556 Days $T_0=131.973685$ (BKJD)



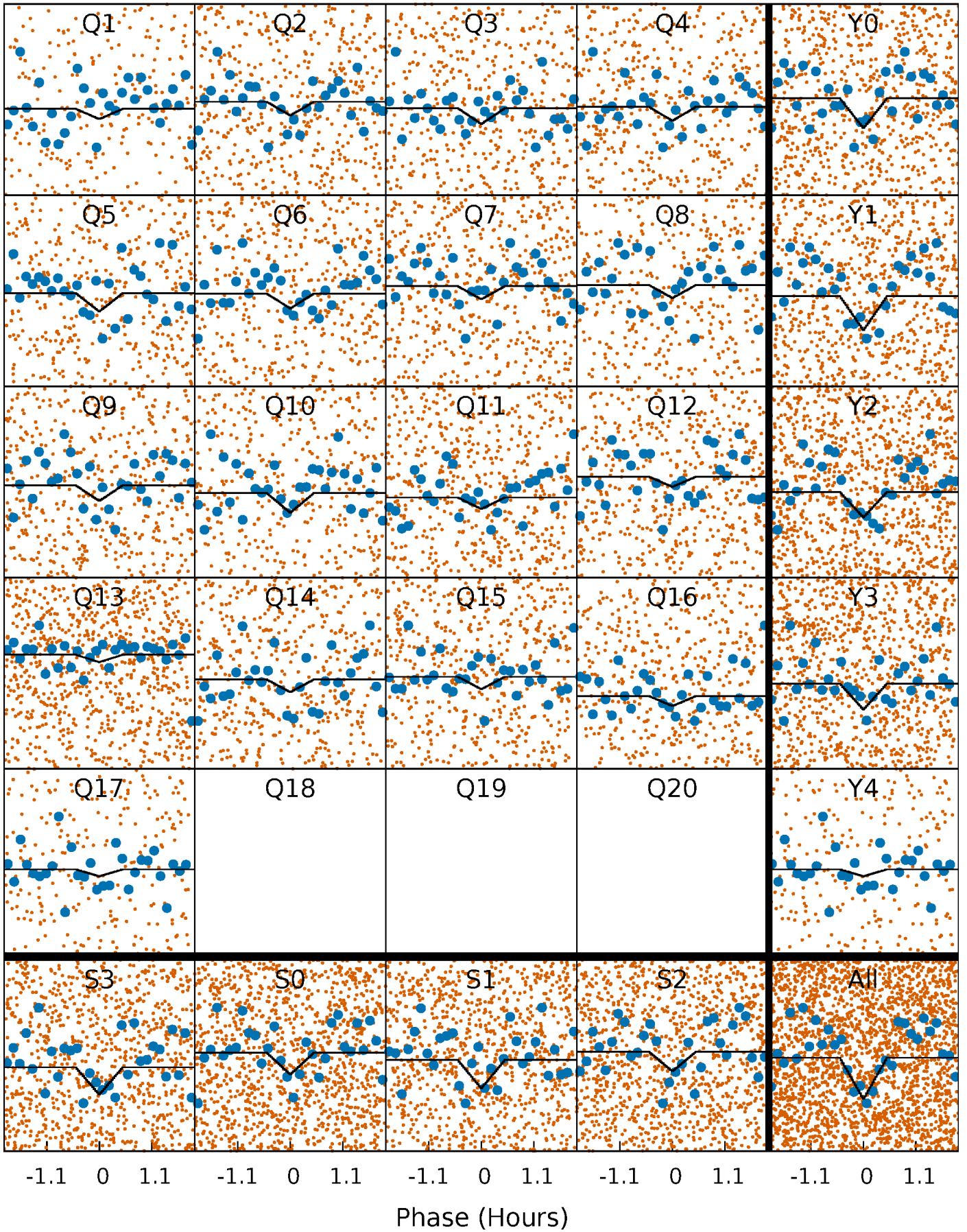
DV Quarter-Phased Transit Curves

TCE 005977984-02 P= 0.563556 Days $T_0=131.973685$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

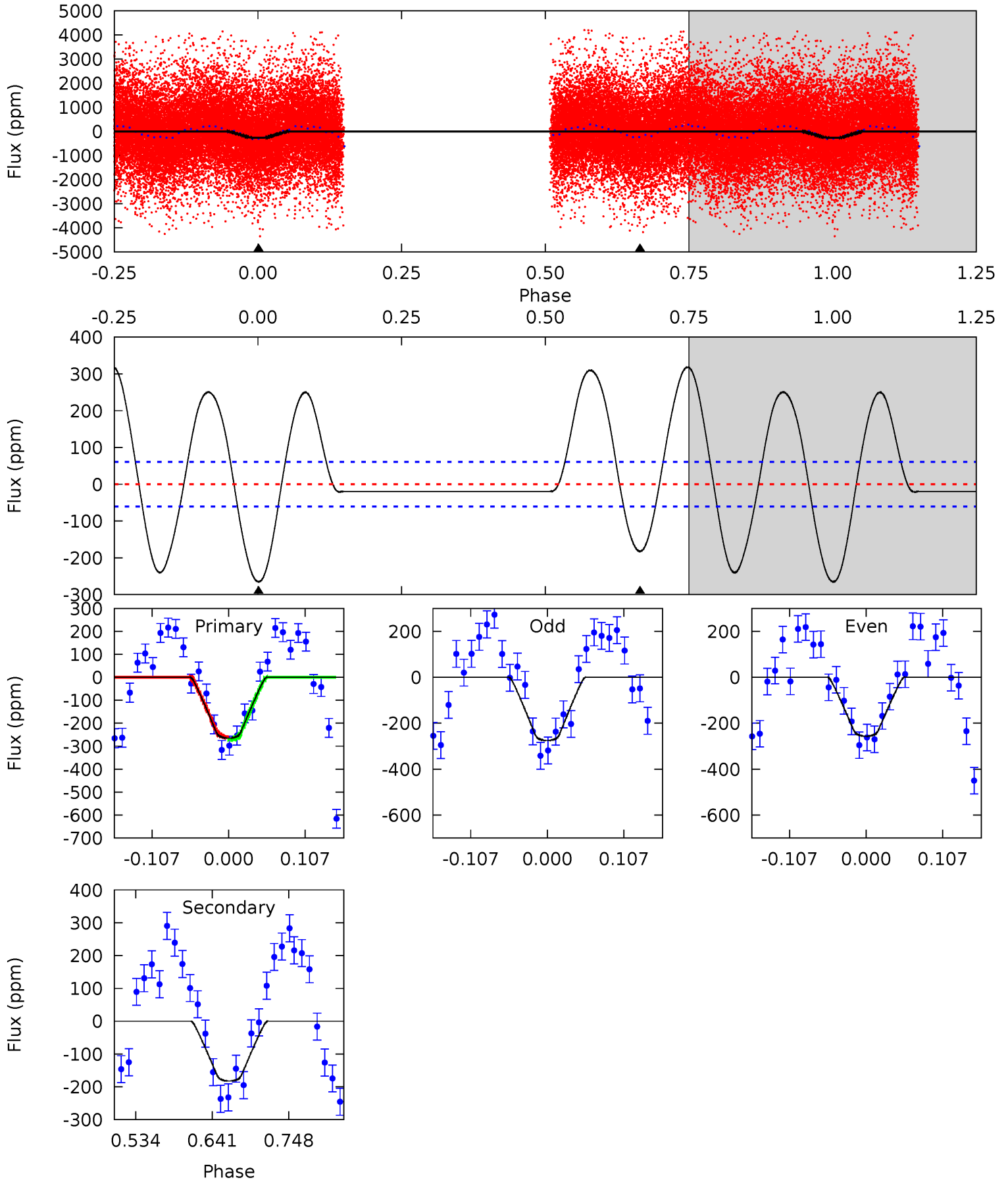
TCE 005977984-02 P= 0.563556 Days $T_0=131.973685$ (BKJD)



DV Model-Shift Uniqueness Test

005977984-02, P = 0.563556 Days, E = 131.410129 Days

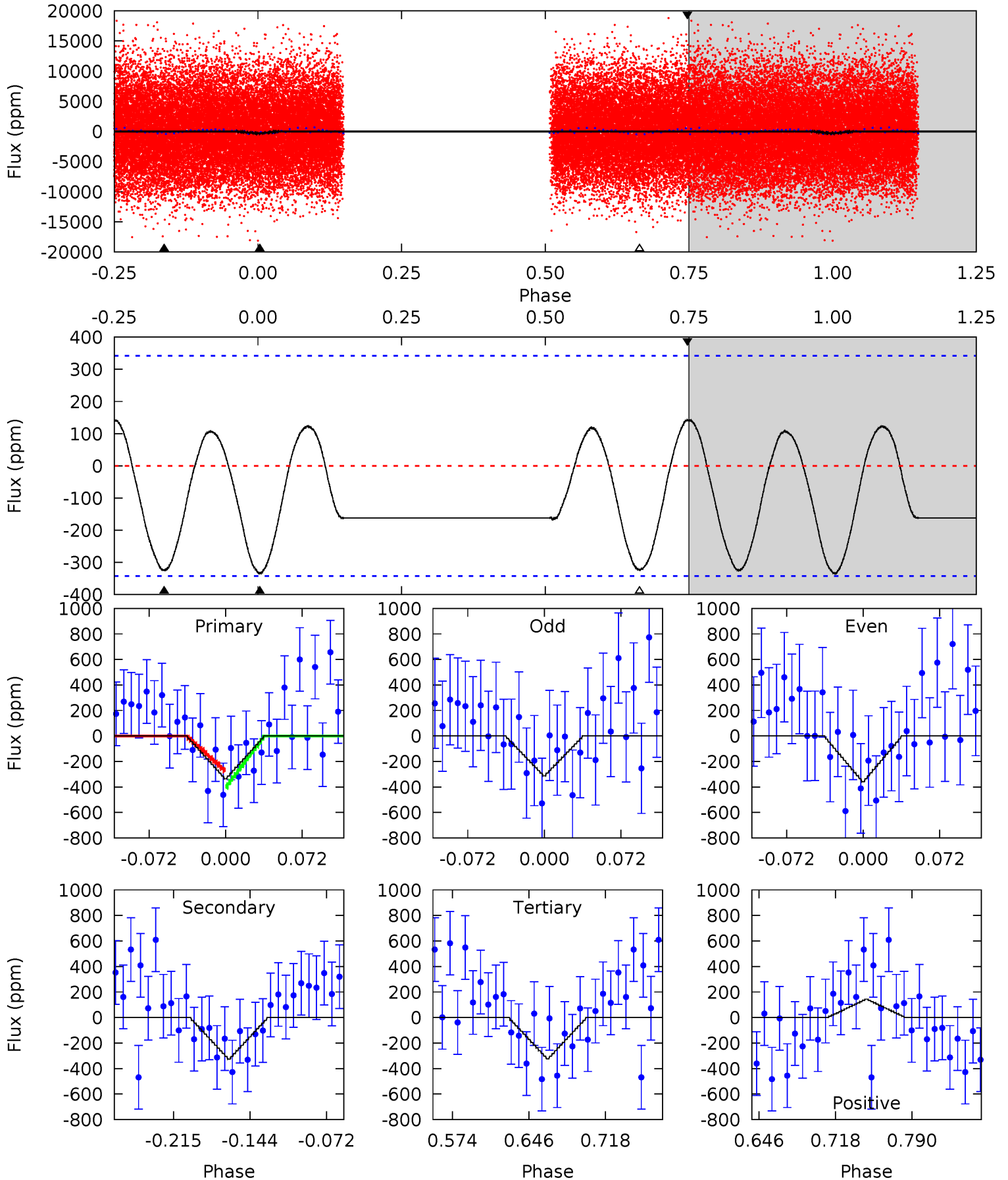
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.8	13.6	0	0	4.55	1.61	9.88	19.8	19.8	13.6	13.6	0.71	0.91	0.55	0.39



Alt Model-Shift Uniqueness Test

005977984-02, P = 0.563556 Days, E = 131.410129 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.55	4.42	4.39	1.95	4.63	1.80	1.99	0.16	2.61	0.02	2.47	0.31	0.69	0.30	0.87



Stellar Parameters For KIC 005977984

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7311^{+251}_{-395}	$3.745^{+0.400}_{-0.100}$	$-0.020^{+0.200}_{-0.350}$	$2.978^{+0.442}_{-1.326}$	$1.799^{+0.177}_{-0.412}$	$0.096^{+0.368}_{-0.029}$
	+3%/-5%	+11%/-3%	+1000%/-1750%	+15%/-45%	+10%/-23%	+383%/-30%
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 005977984-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-182 ± 13	$5.48^{+1.70}_{-1.74}$	5915^{+459}_{-723}	5535^{+1195}_{-927}	$0.869^{+0.977}_{-0.364}$
Alt.	-326 ± 74	$5.54^{+1.75}_{-1.67}$	5945^{+434}_{-737}	6692^{+1555}_{-1055}	$1.492^{+1.658}_{-0.663}$

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 $A_{obs} \gg 1.0$

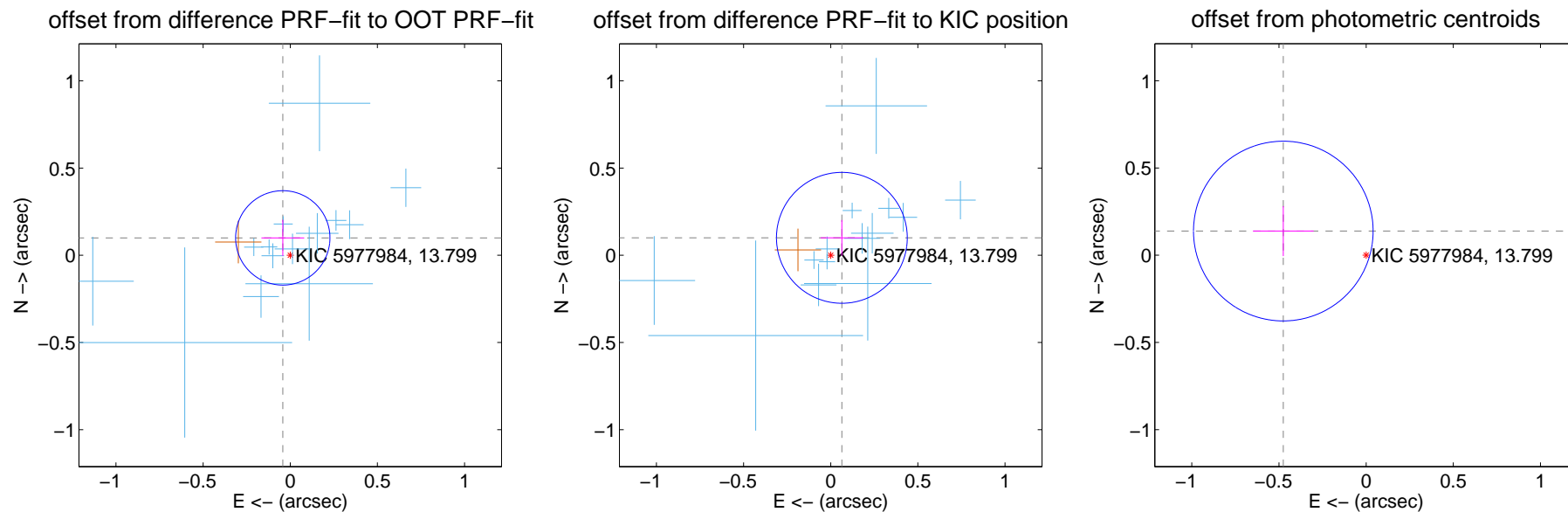
DV Centroid Data

Supplemental centroid analysis for 005977984-02. Kepler magnitude: 13.80. Transit SNR 16.58

There are 14 quarters with good PRF difference image offsets

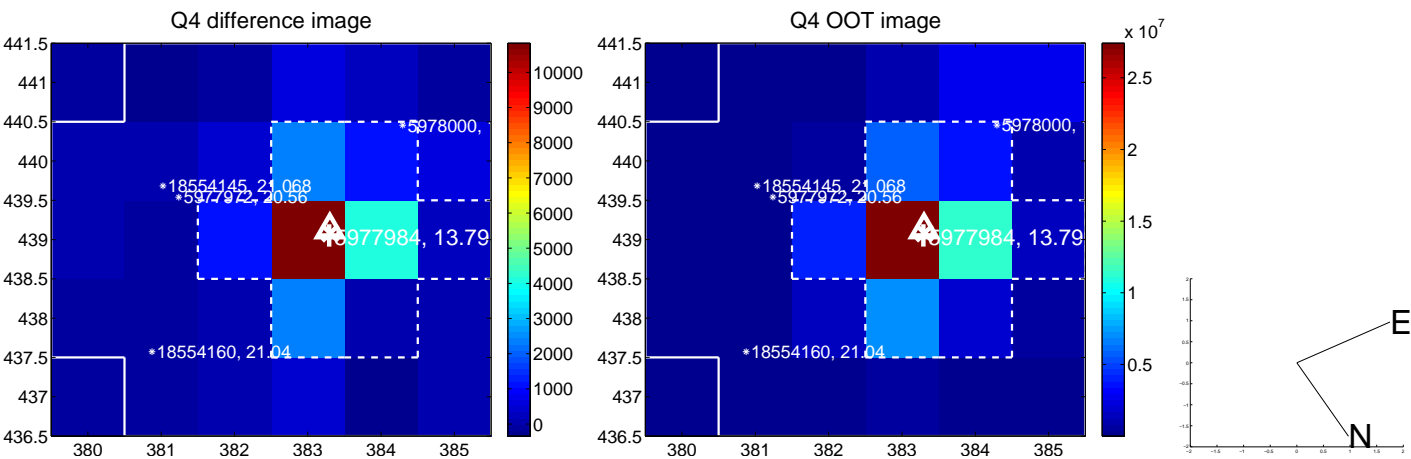
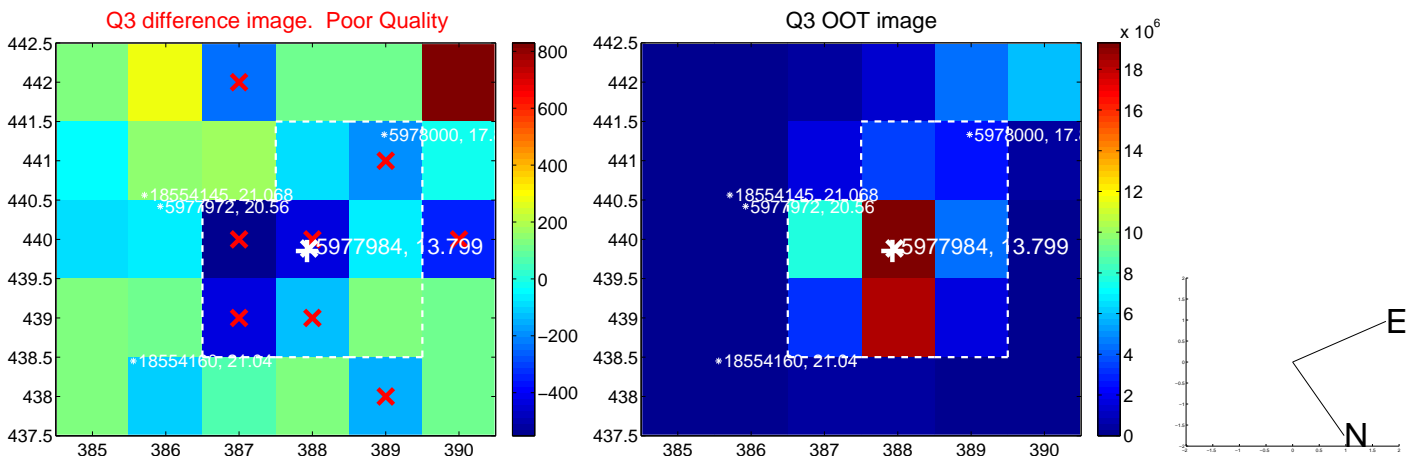
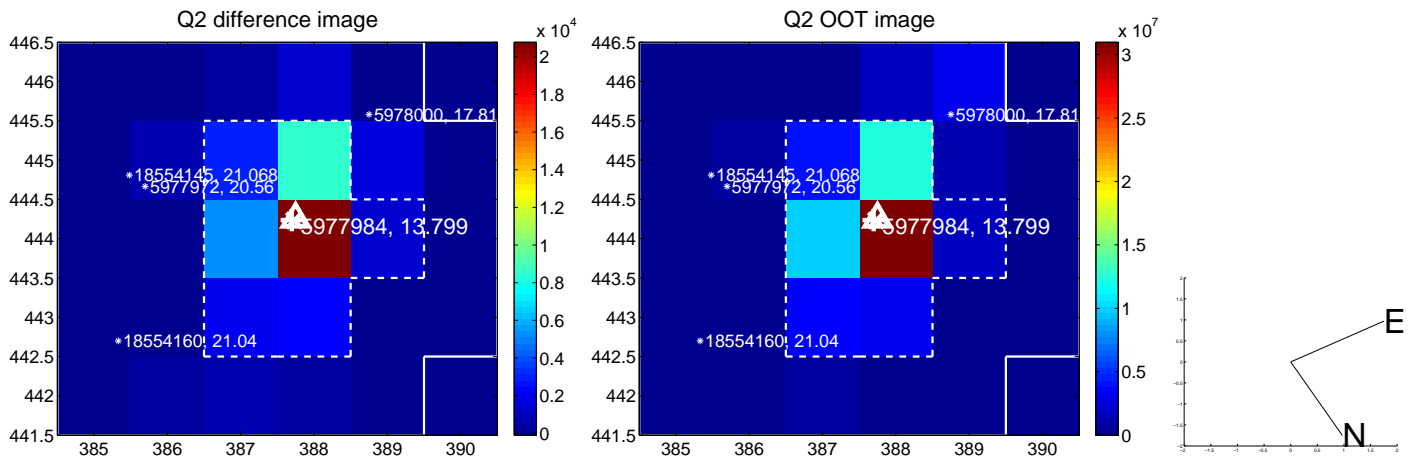
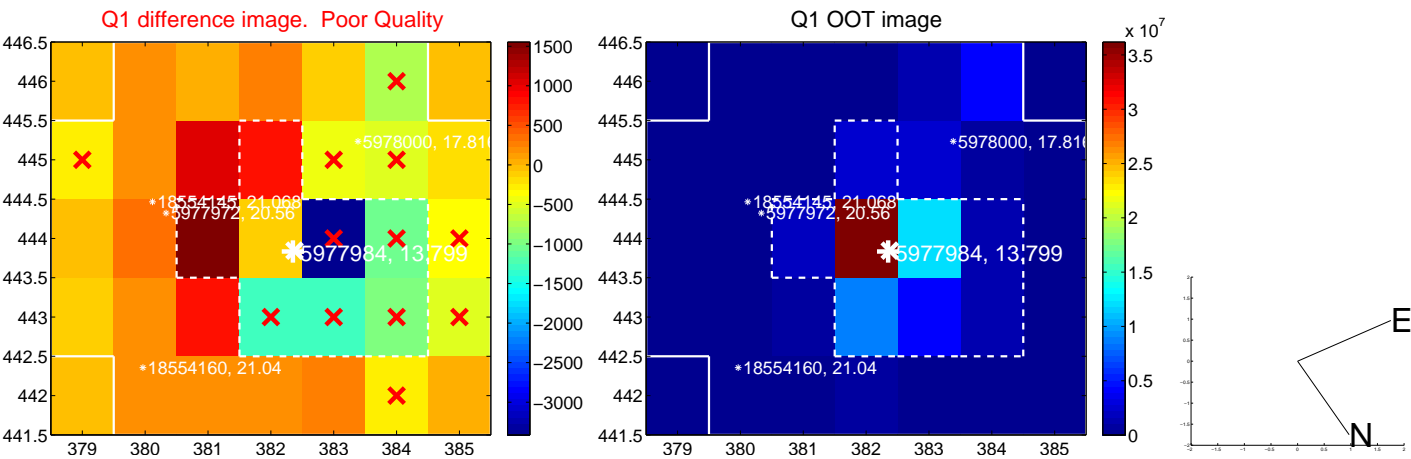
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.108 ± 0.090	1.20	0.043 ± 0.123	0.100 ± 0.103
PRF-fit source offset from KIC position	0.119 ± 0.125	0.95	-0.064 ± 0.122	0.100 ± 0.102
photometric centroid source offset	0.49 ± 0.17	2.88	0.47 ± 0.17	0.14 ± 0.14

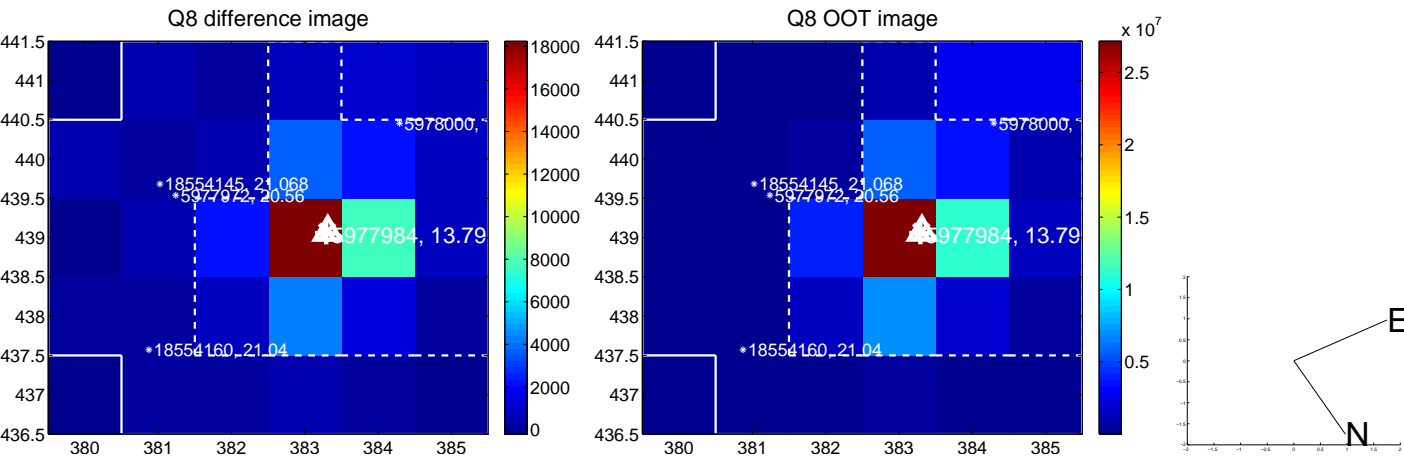
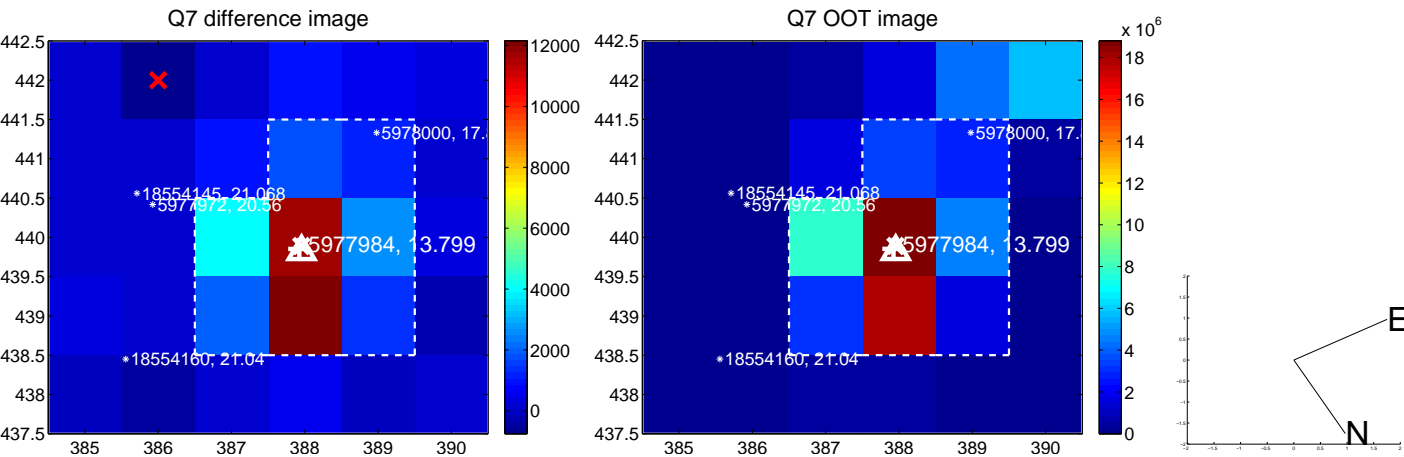
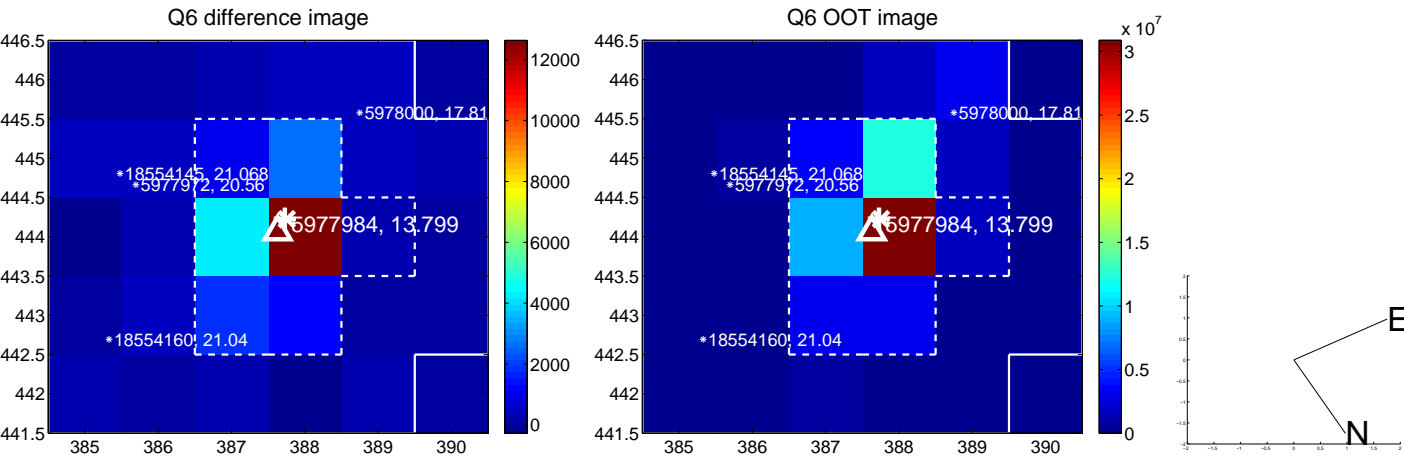
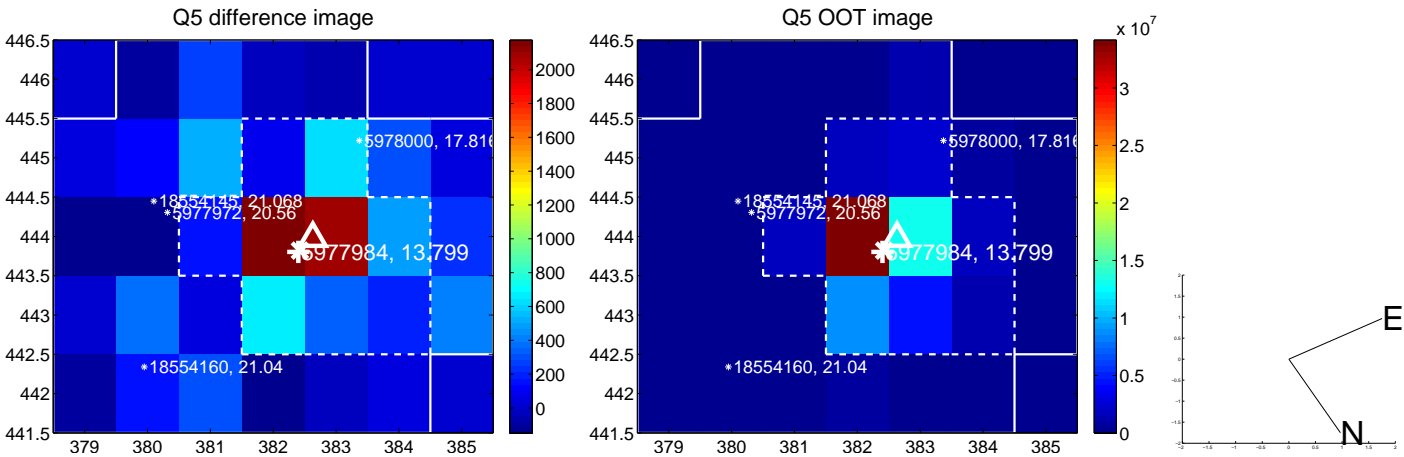


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

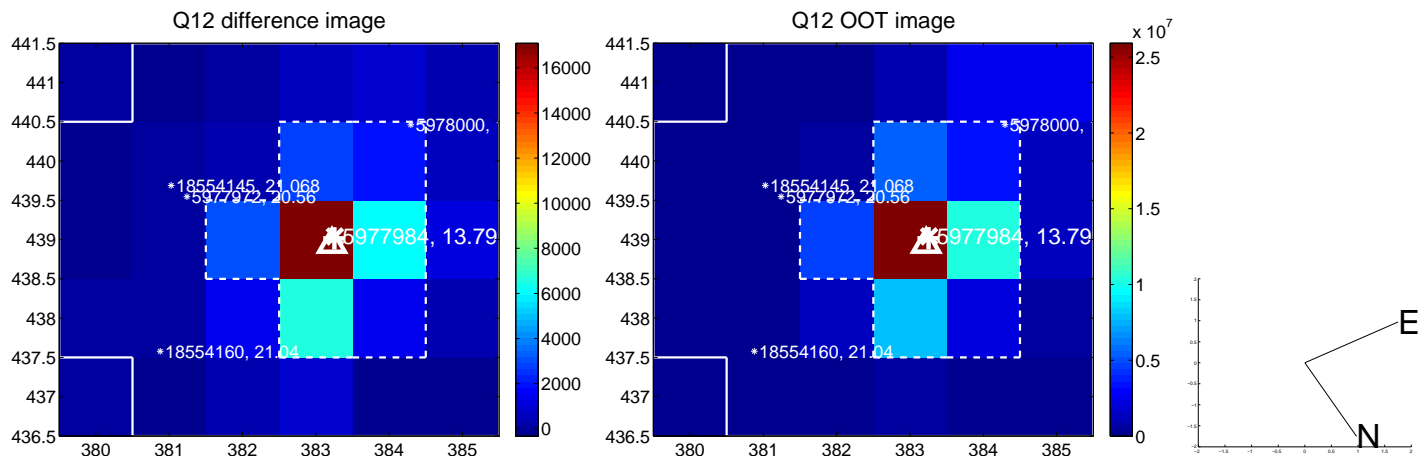
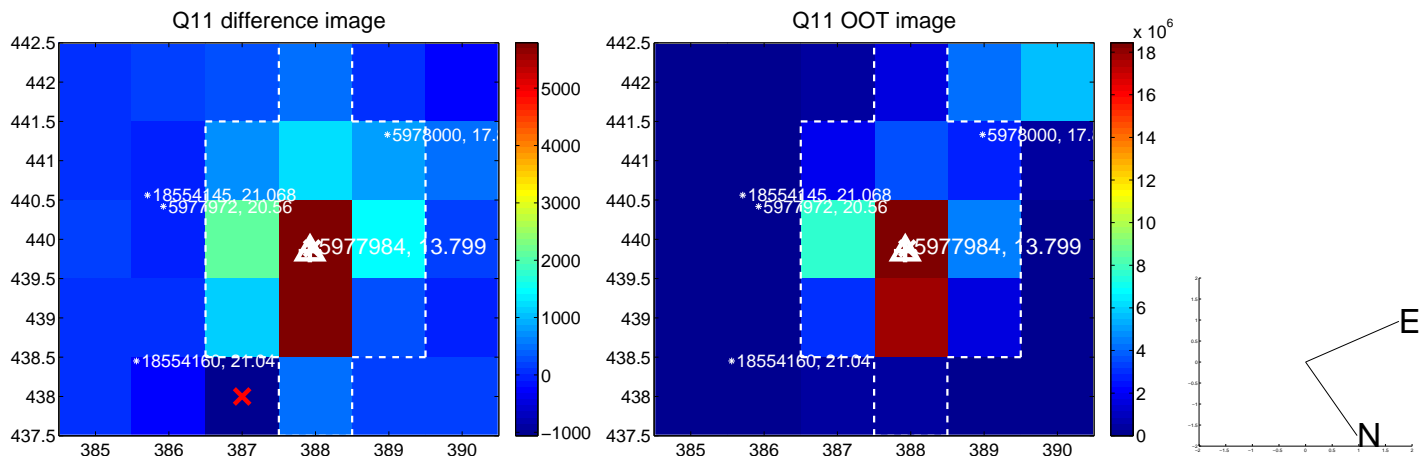
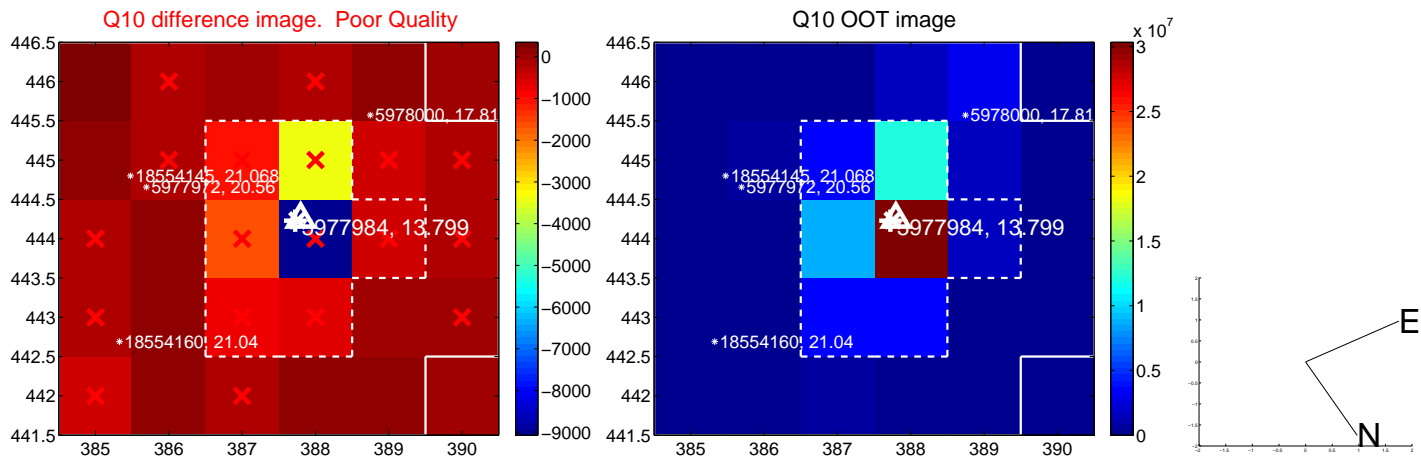
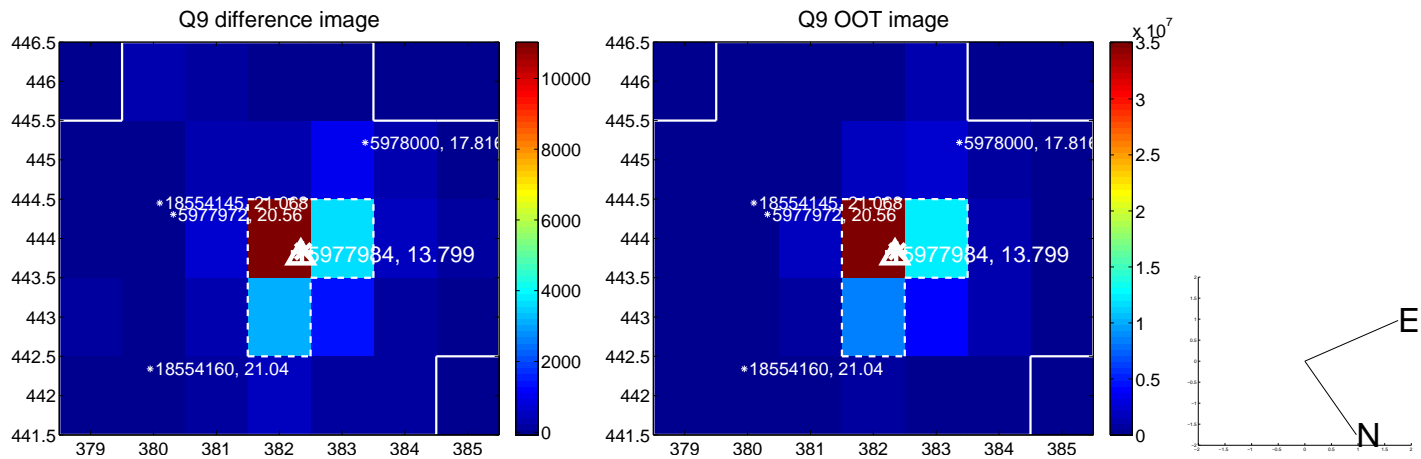
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



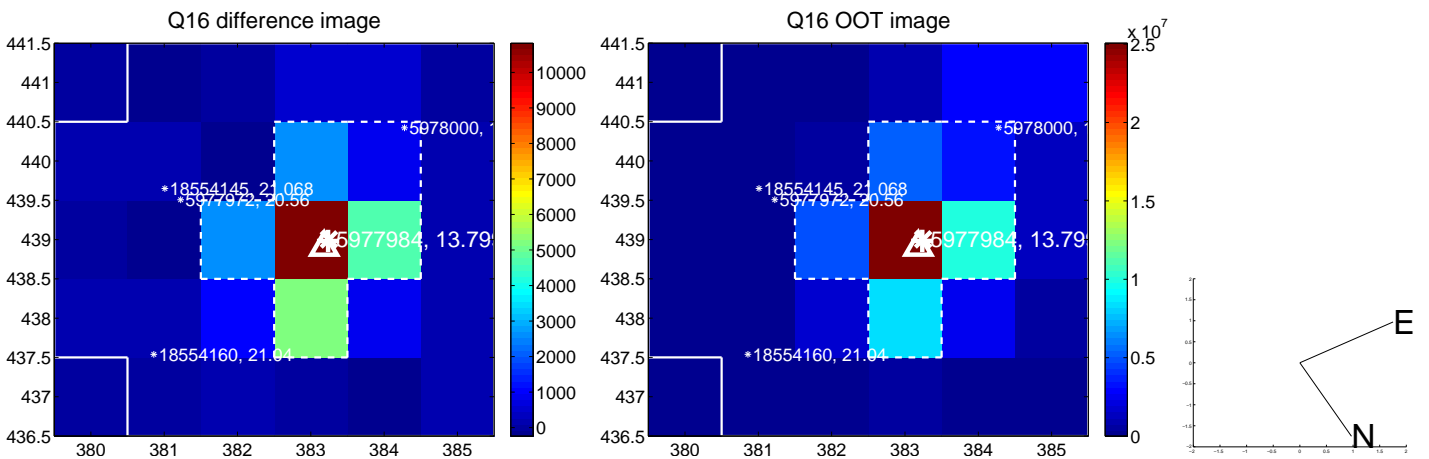
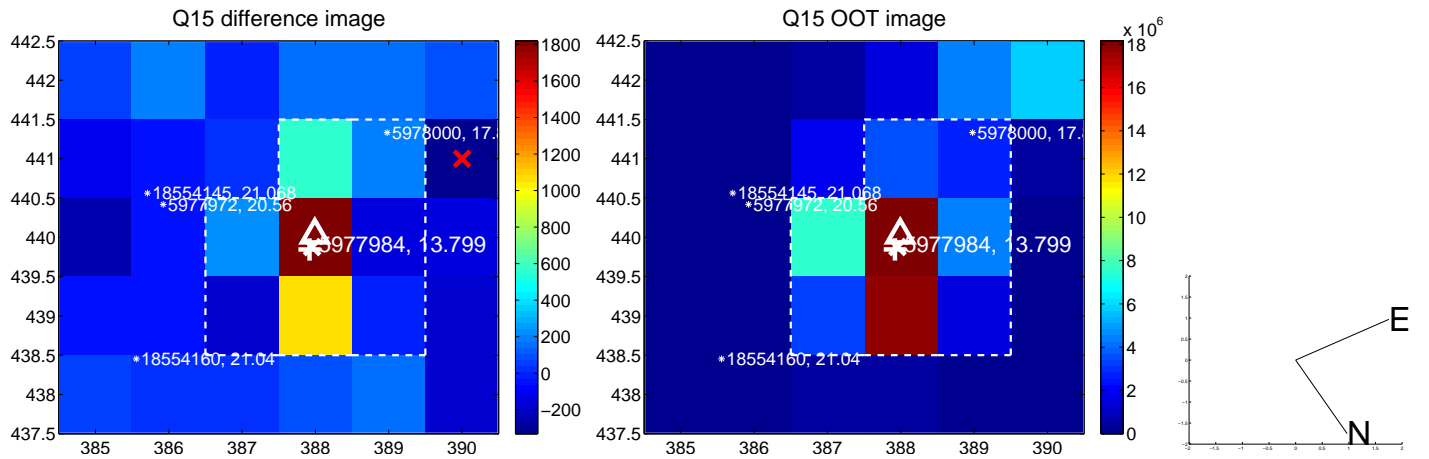
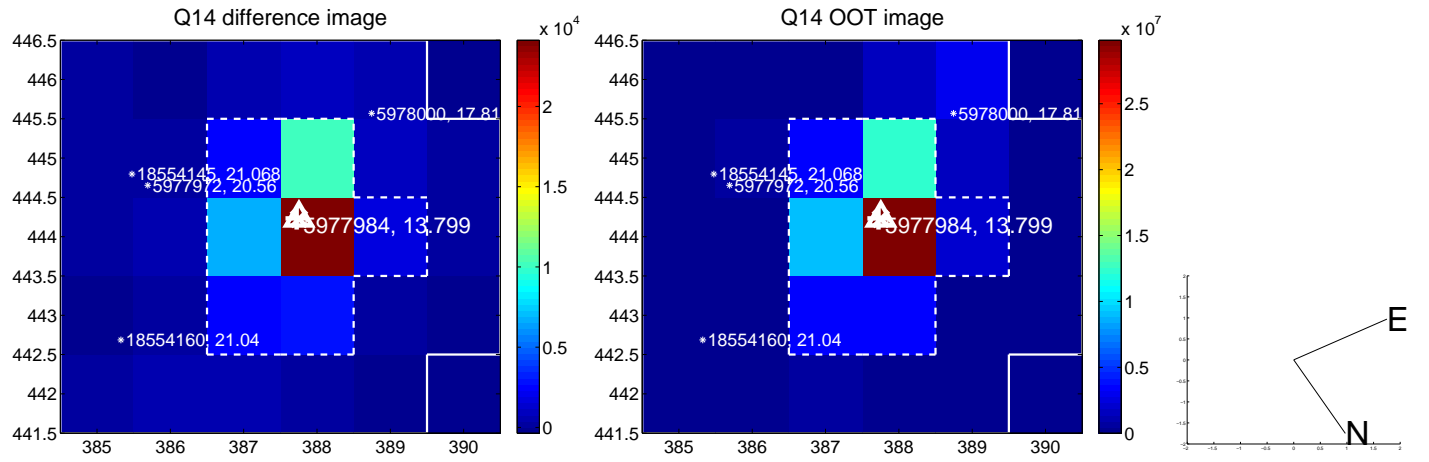
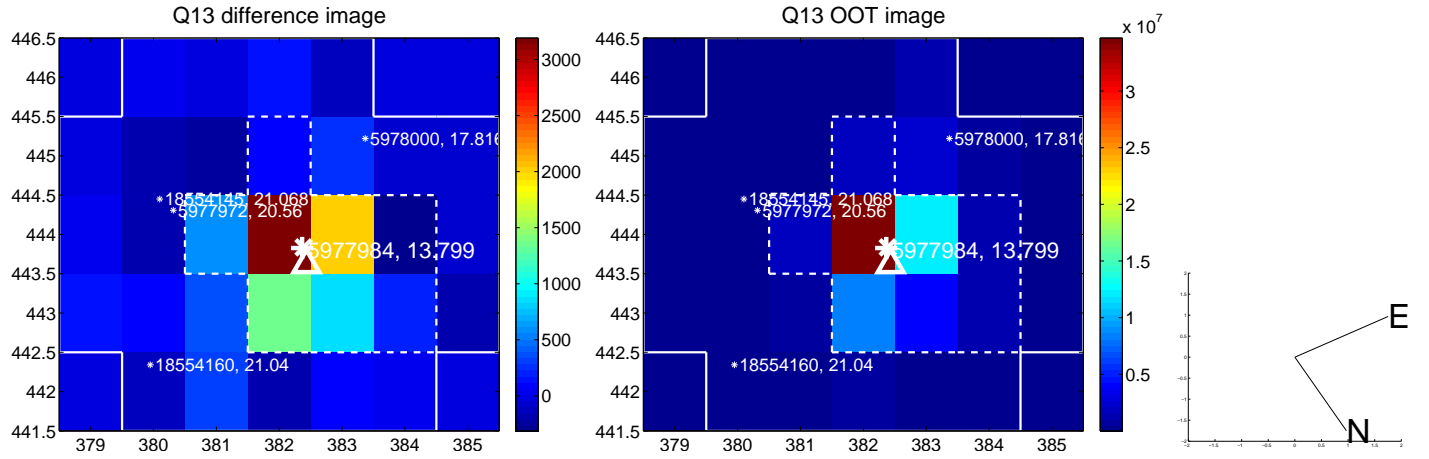
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



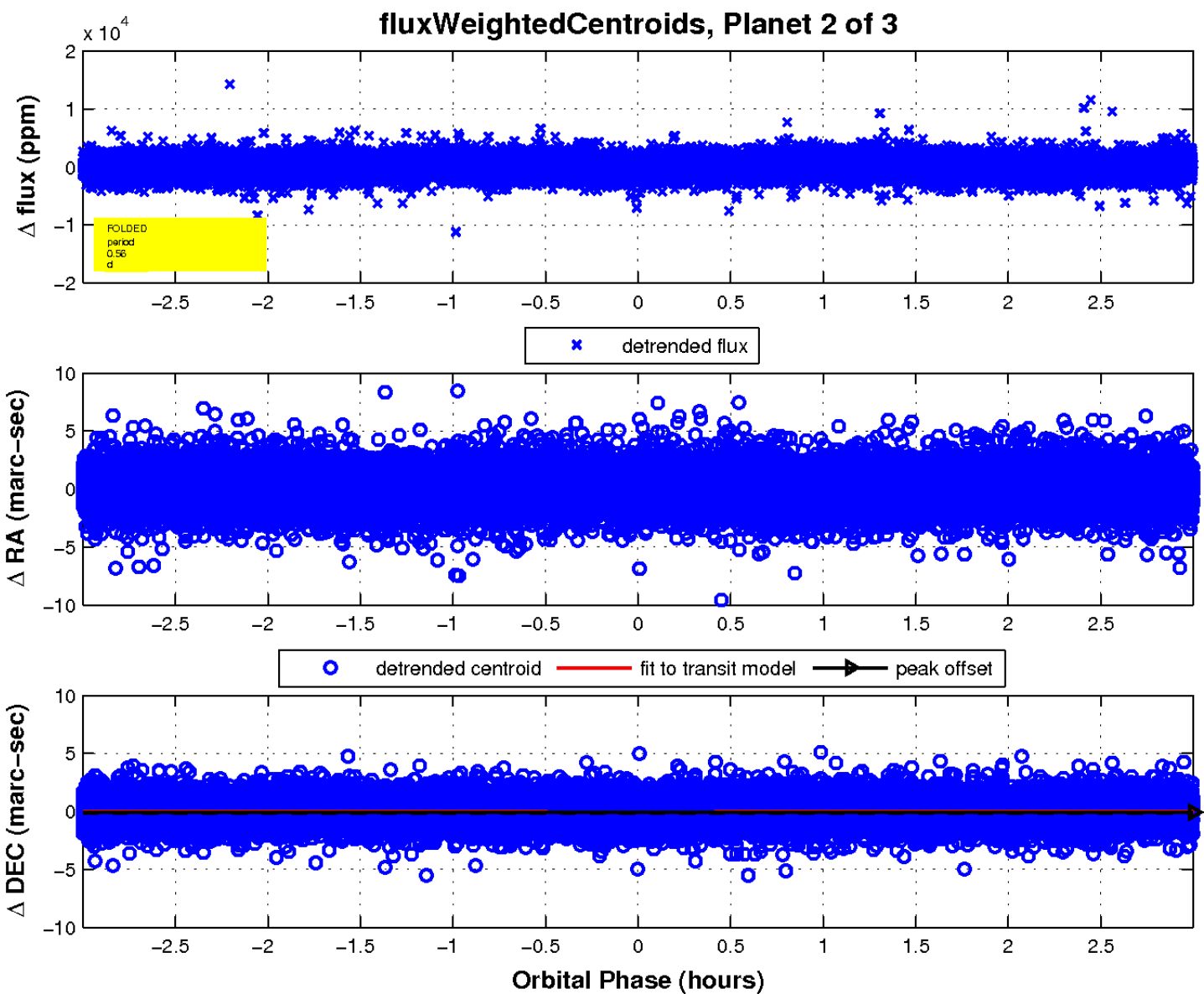
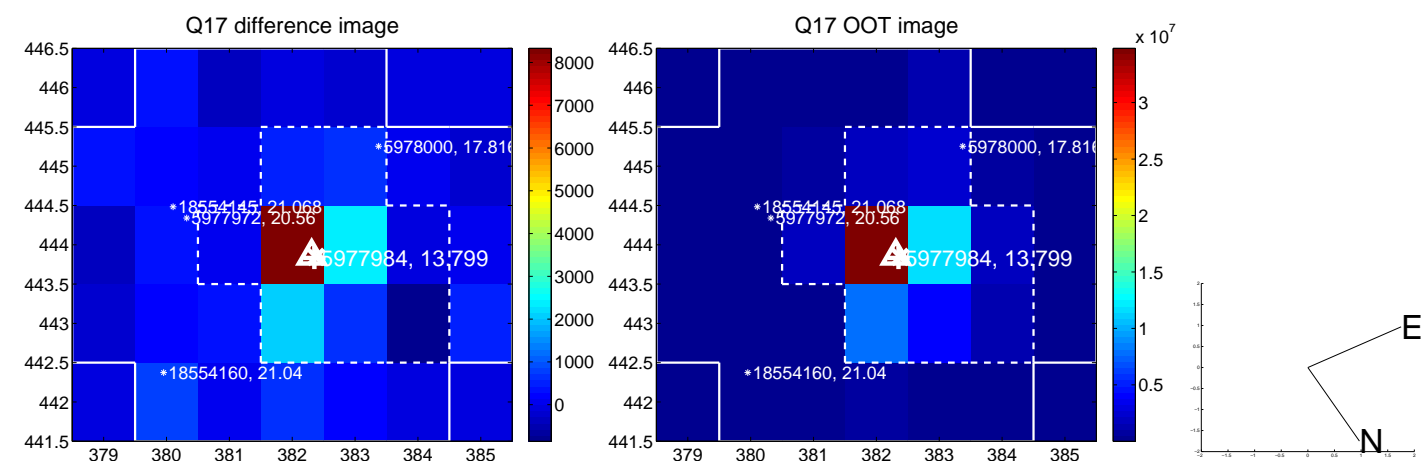
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

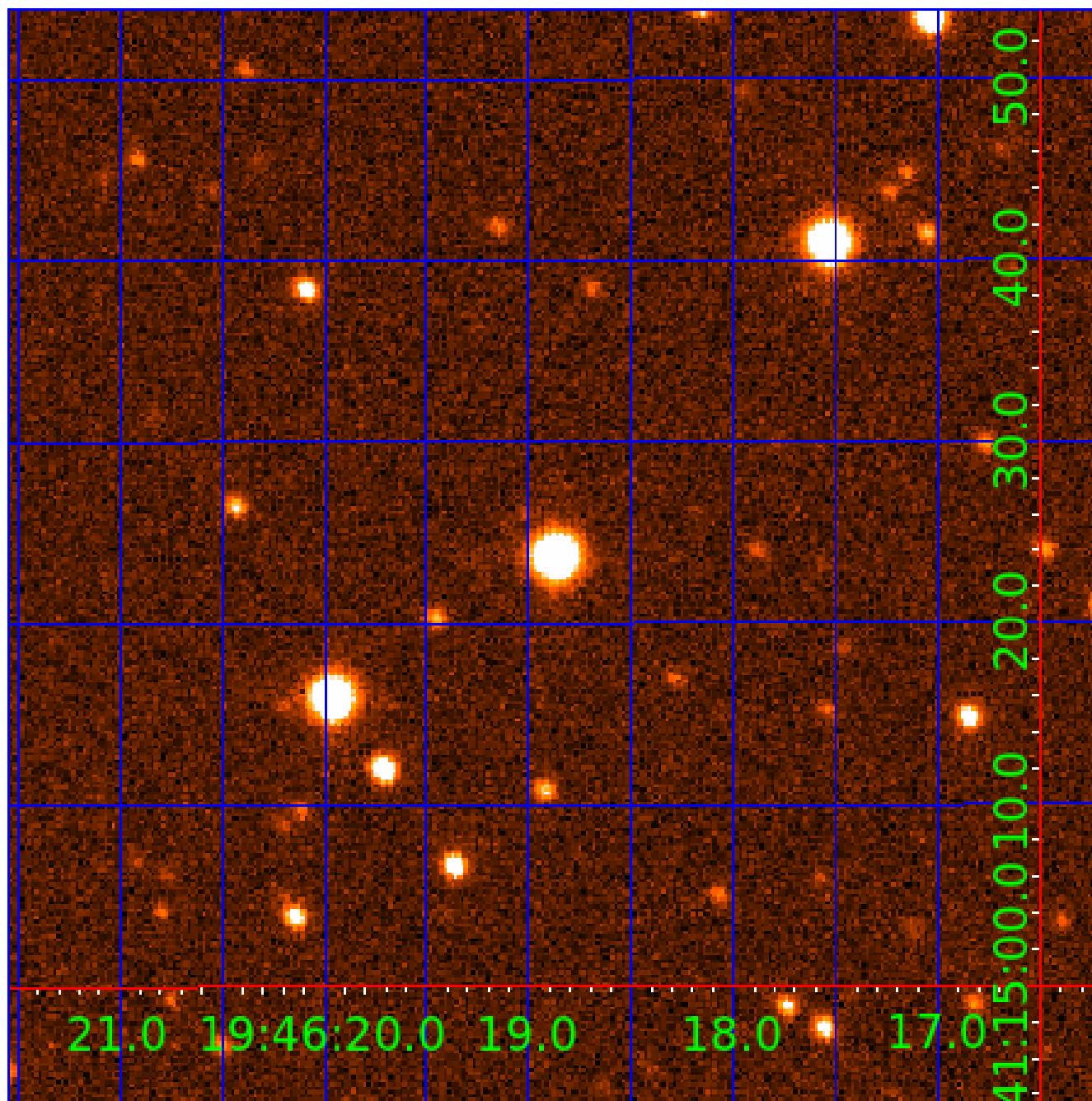


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005977984

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})
005977984-01	OBS	No	0.563553	131.598986	313.6	0.875	17.9	17.3	2.98	7311	5.51	86067.27
005977984-02	OBS	No	0.563556	131.973685	297.7	1.000	16.3	16.6	2.98	7311	6.00	86066.71
005977984-03	OBS	No	0.563561	131.775593	336.1	1.170	13.7	19.7	2.98	7311	6.36	86065.67

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005977984-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005977984-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—SAME_NTL_PERIOD
005977984-03	OBS	FP	0.00	1	0	0	0	LPP_DV—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.

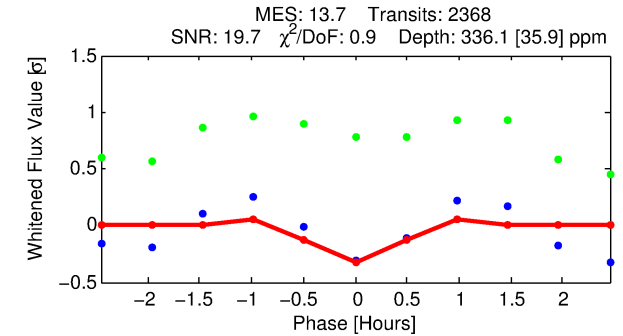
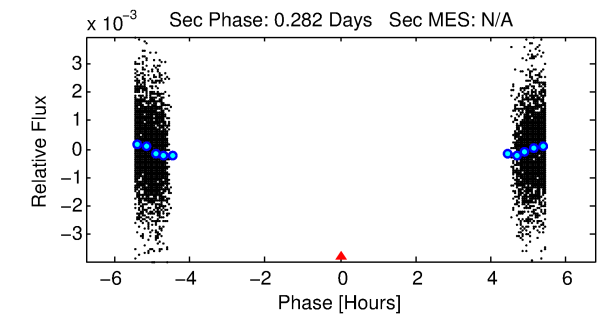
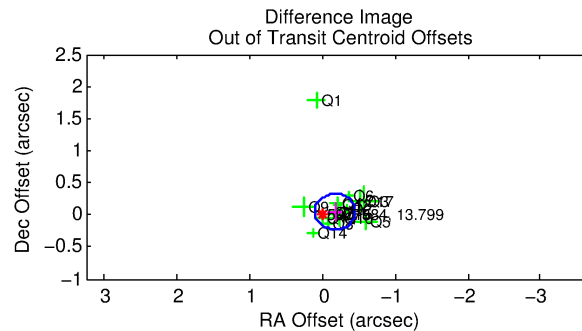
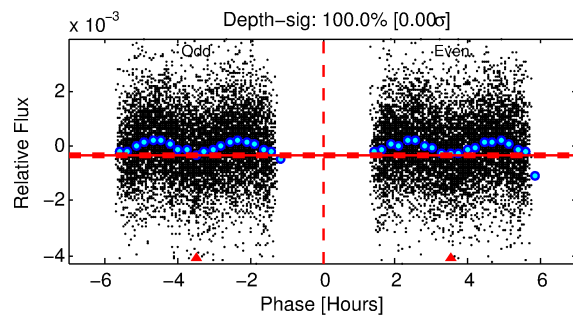
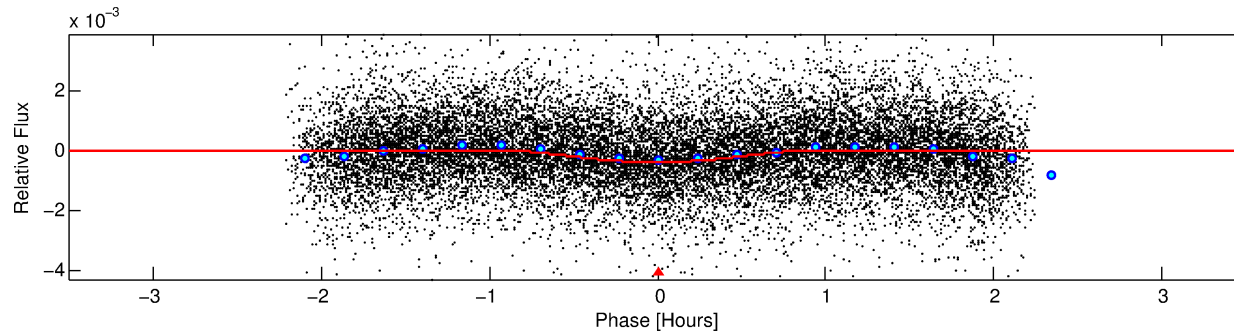
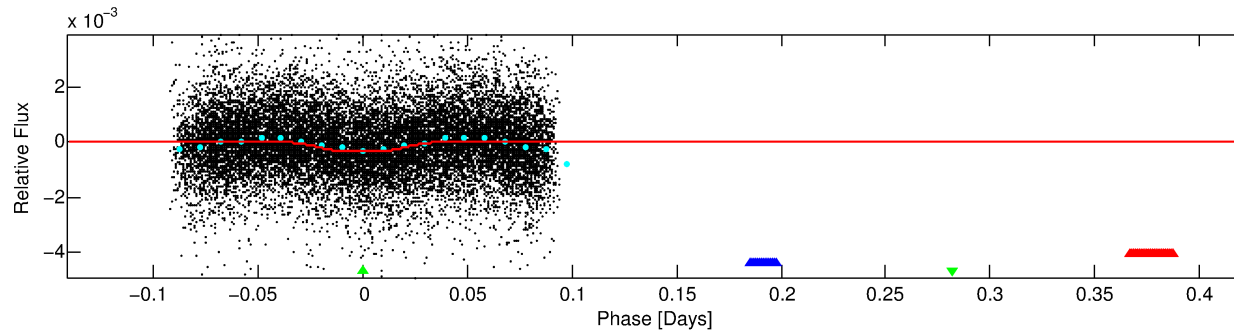
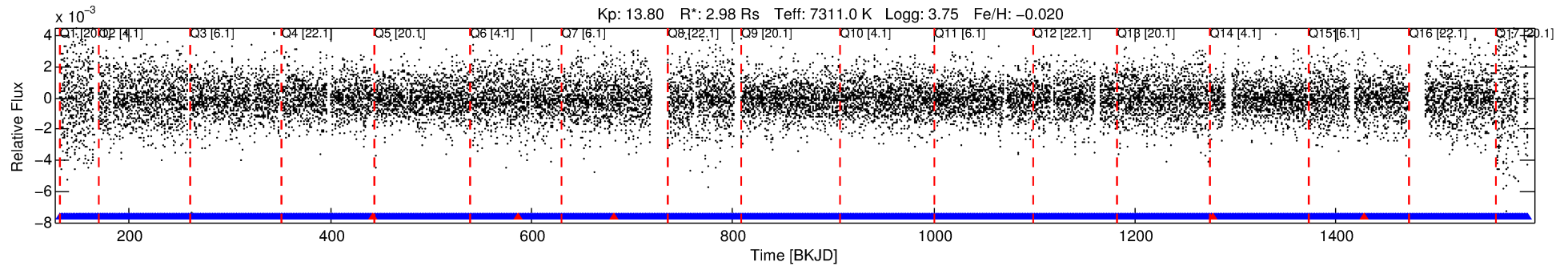
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005977984-03

No Significant Match Found

DV One-Page Summary

KIC: 5977984 Candidate: 3 of 3 Period: 0.564 d



DV Fit Results:

Period = 0.56356 [0.00001] d
Epoch = 131.7756 [0.0008] BKJD
Rp/R* = 0.0196 [0.0049]
a/R* = 2.00 [2.29]
b = 0.90 [0.33]
Seff = 86065.67 [61574.24]
Teq = 4368 [781] K
Rp = 6.36 [3.25] Re
a = 0.0162 [0.0069] AU

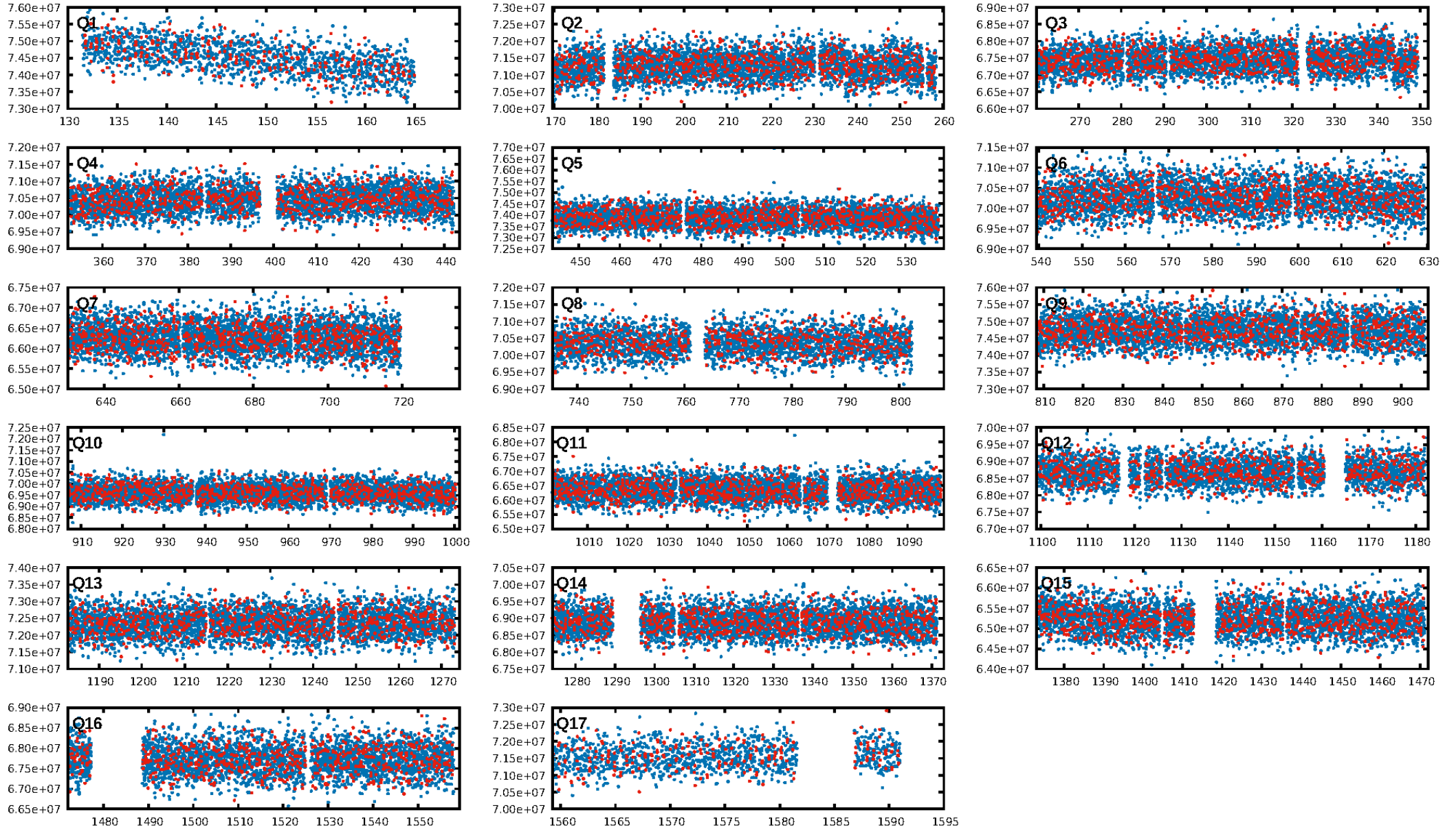
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2256/2261]
GhostDiagnostic-chr: 4.922
Centroid-sig: N/A
Centroid-so: 0.147 arcsec [1.02σ]
OotOffset-rm: 0.180 arcsec [1.93σ]
OotOffset-st: 3/4/4/5 [16]
KicOffset-rm: 0.315 arcsec [3.38σ]
KicOffset-st: 3/4/4/5 [16]
DiffImageQuality-fgm: 0.88 [14/16]
DiffImageOverlap-fno: 0.00 [0/17]

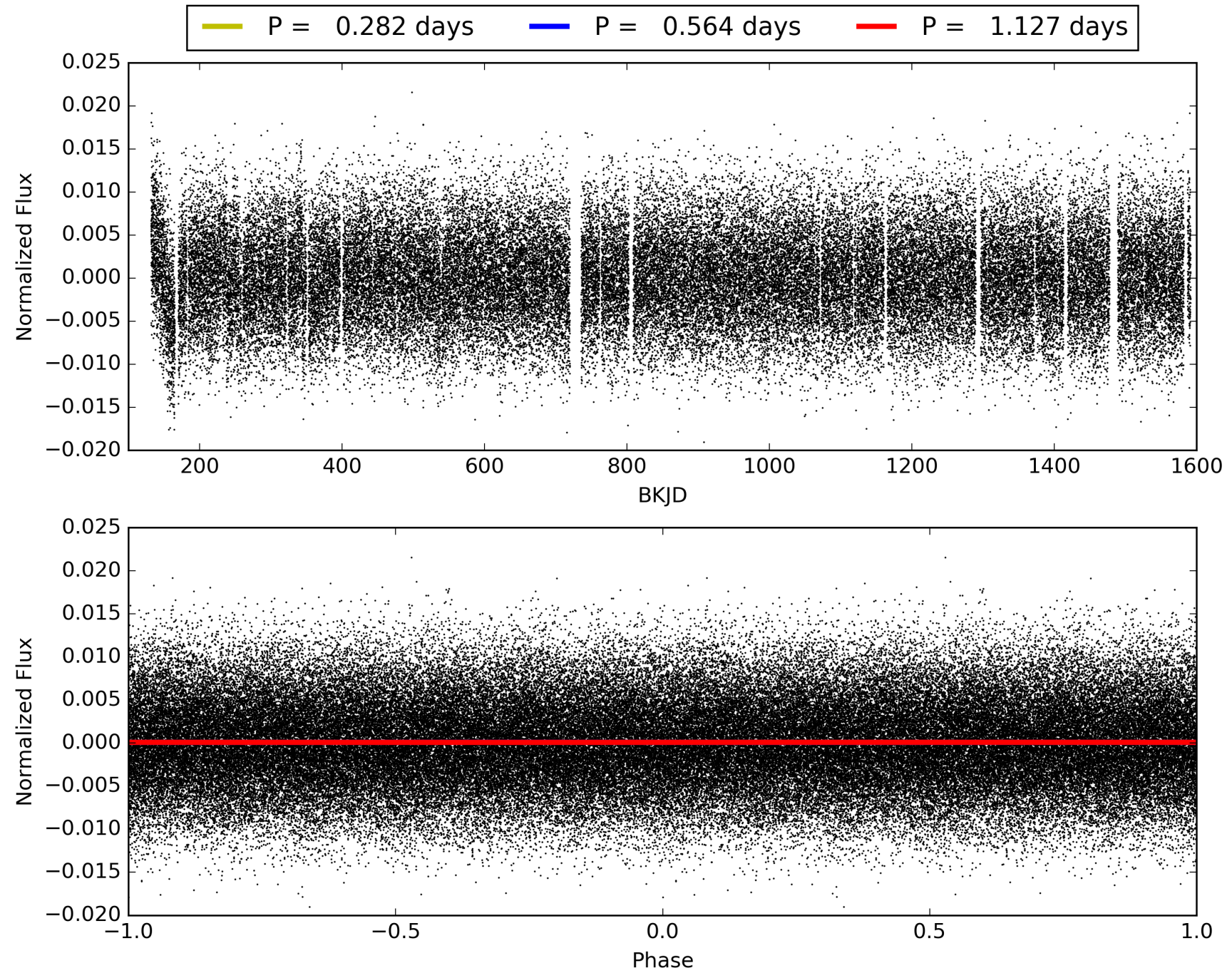
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 18:06:13 Z

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

TCE 005977984-03, PDC Light Curves

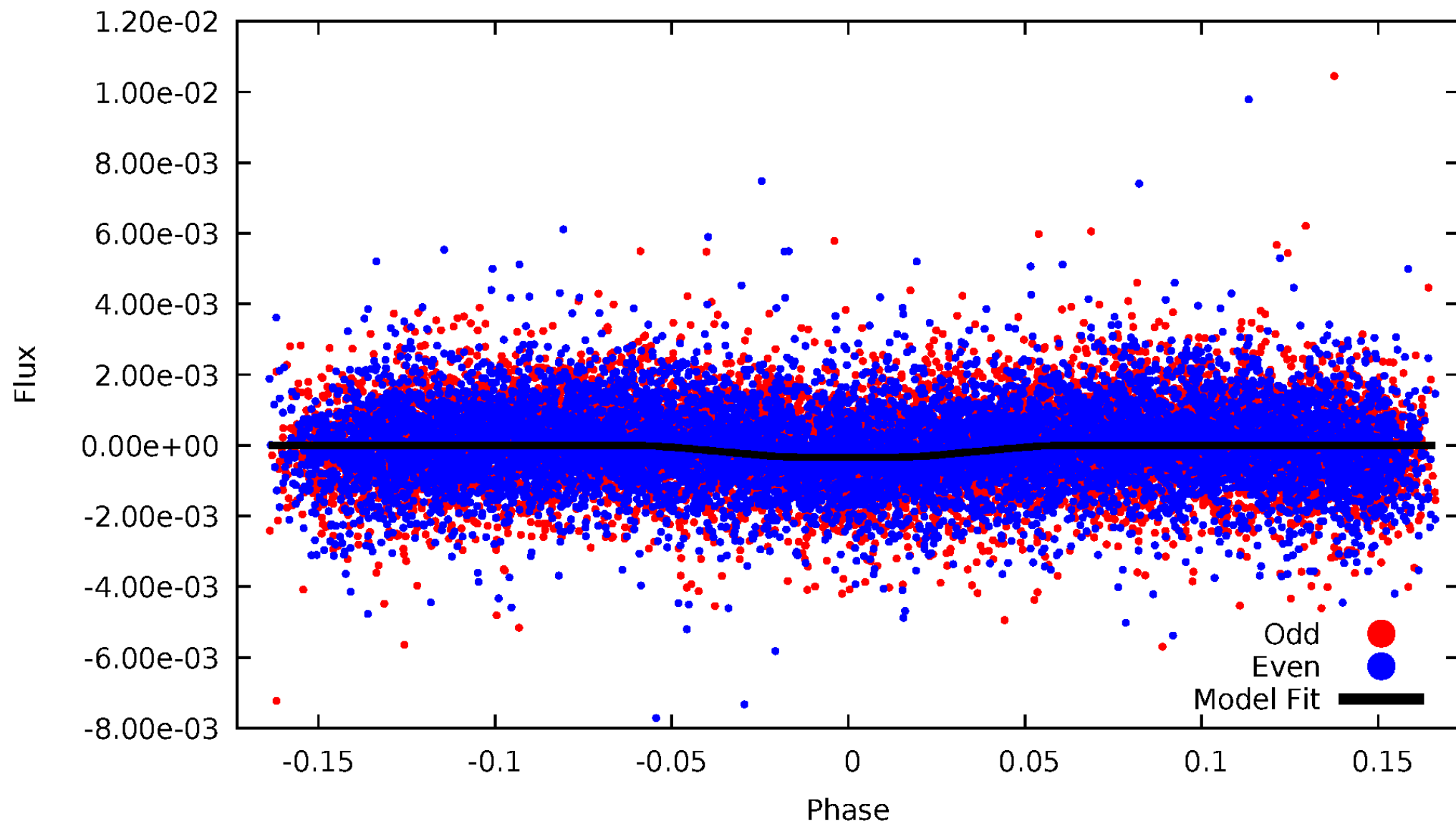


TCE 005977984-03



DV Odd/Even

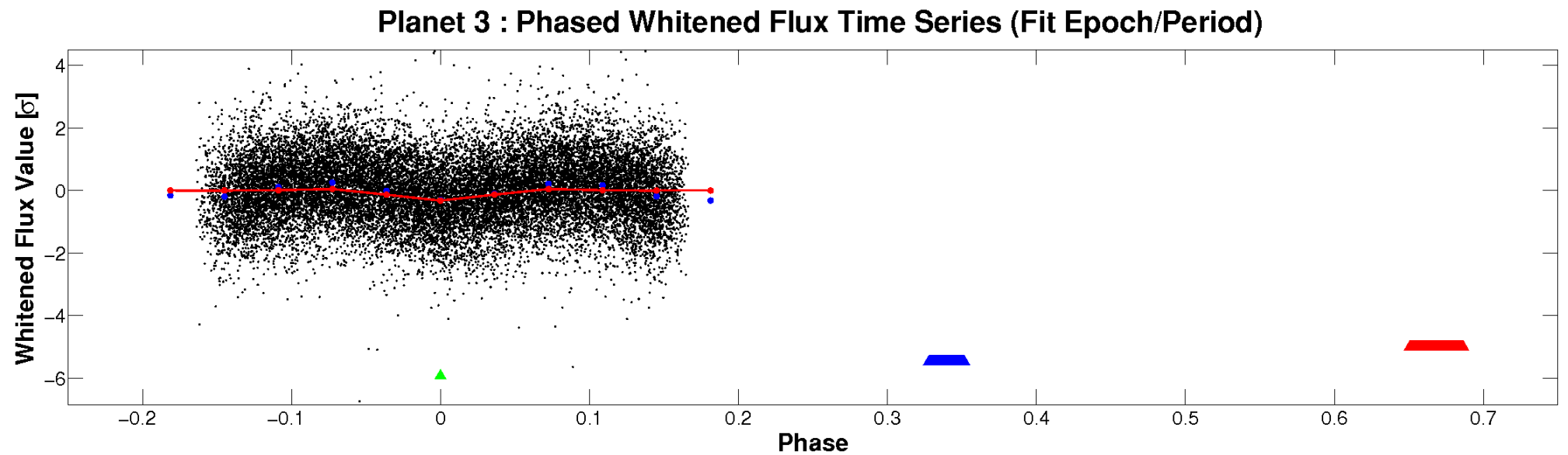
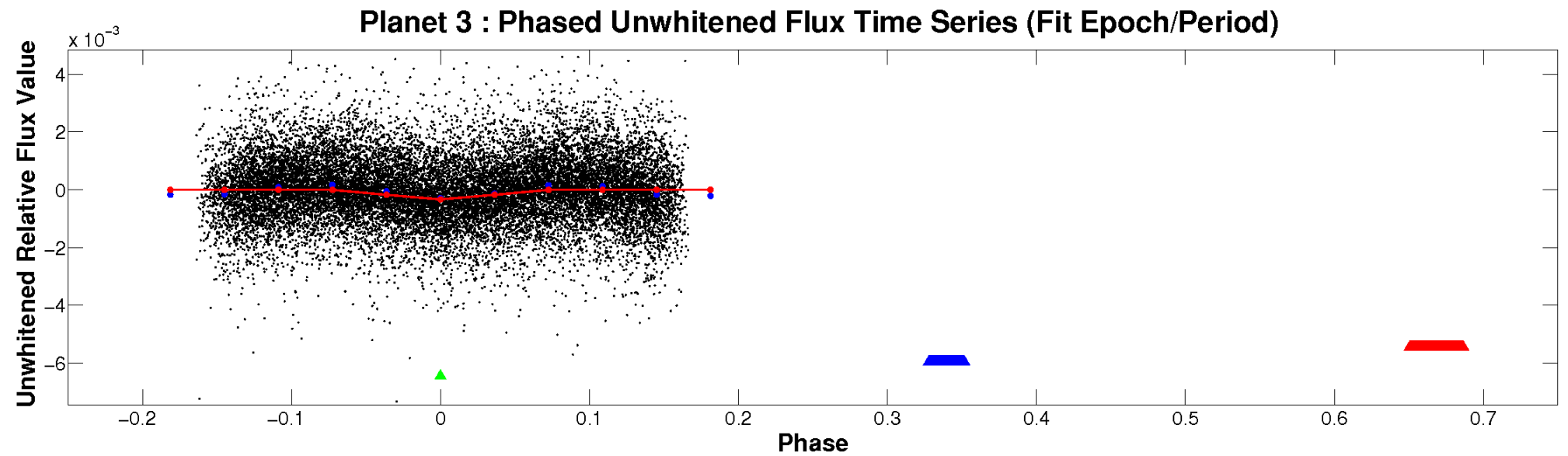
TCE 005977984-03



ALT Odd/Even

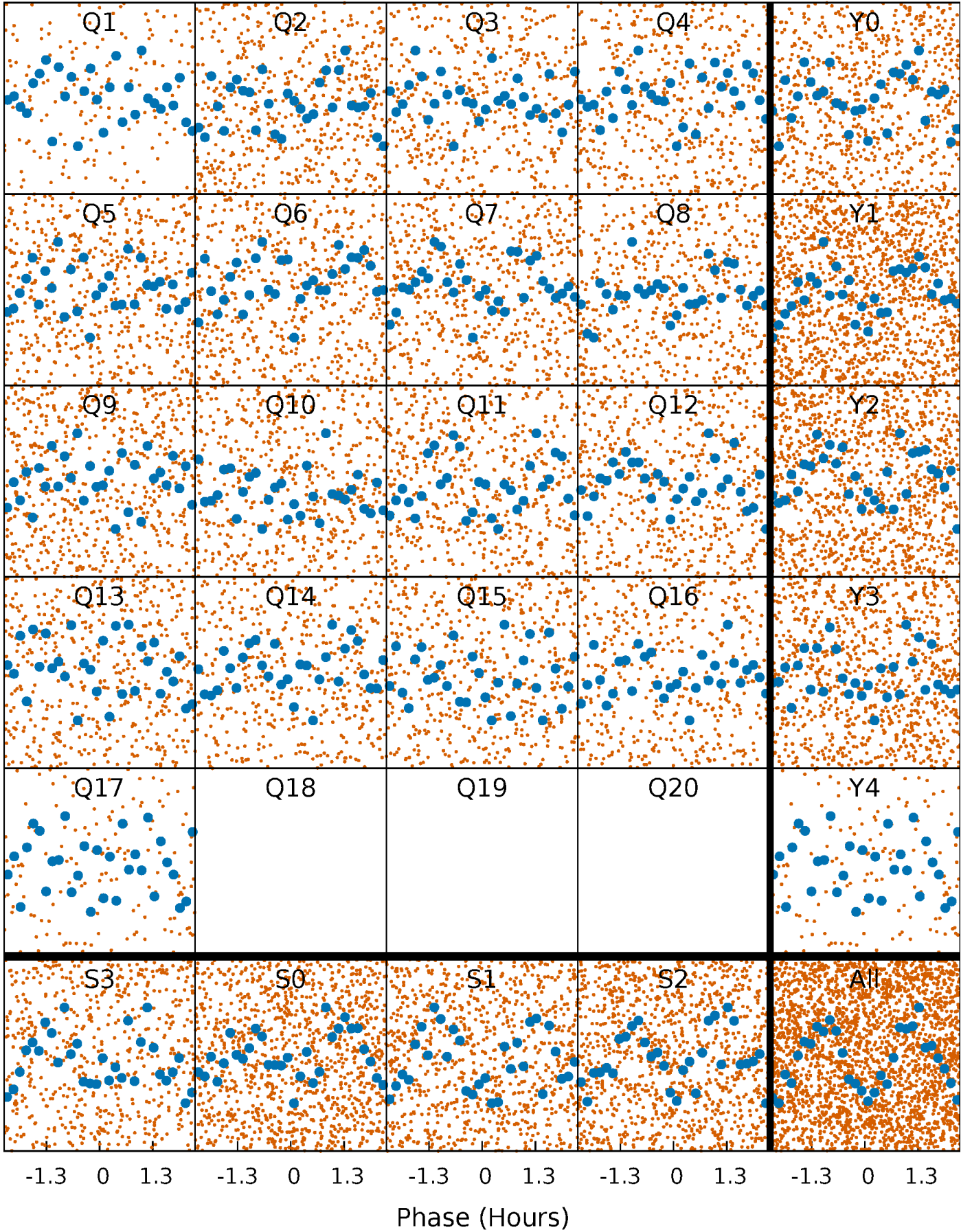
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve



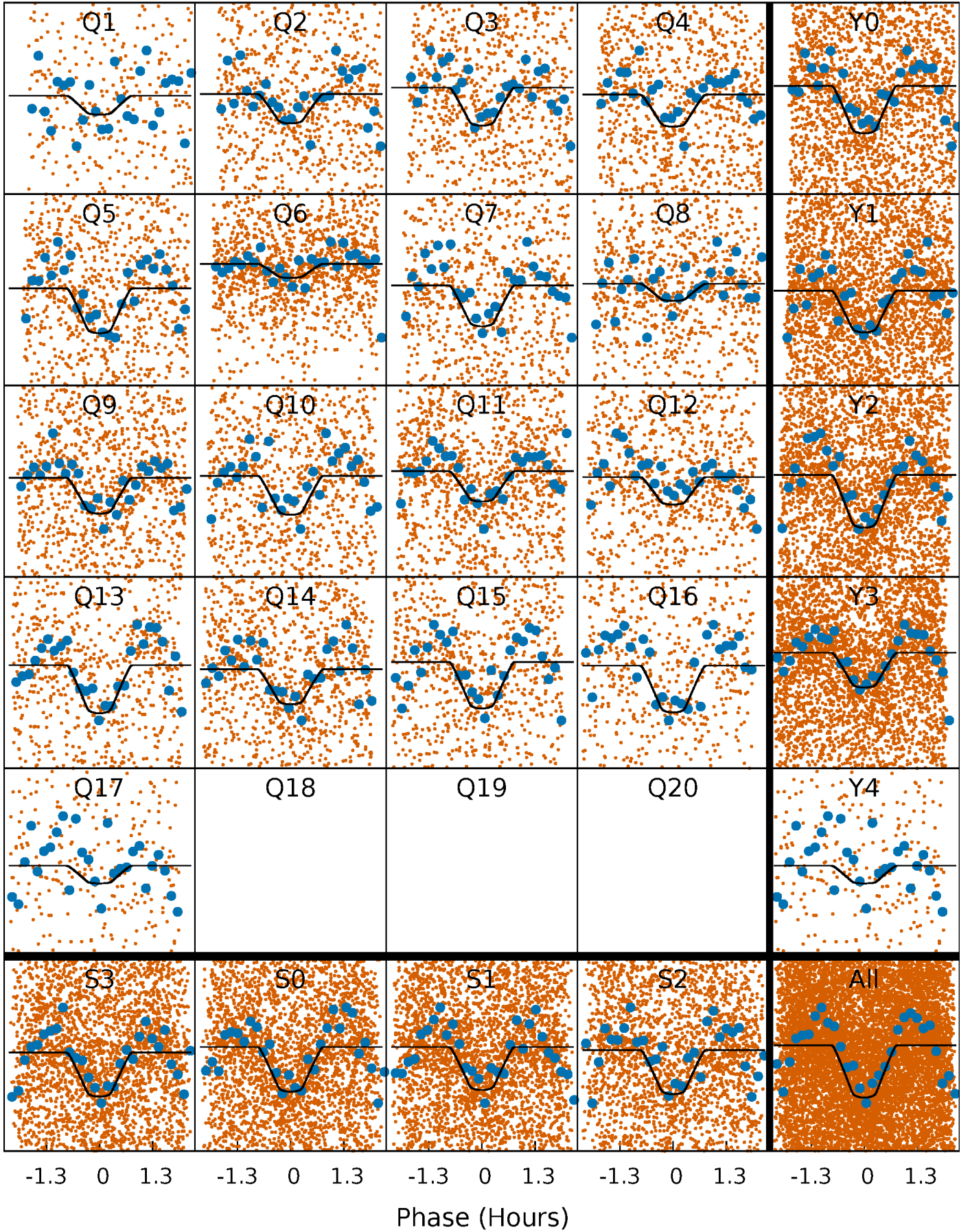
PDC Quarter-Phased Transit Curves

TCE 005977984-03 $P = 0.563561$ Days $T_0 = 131.775593$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005977984-03 P= 0.563561 Days $T_0=131.775593$ (BKJD)

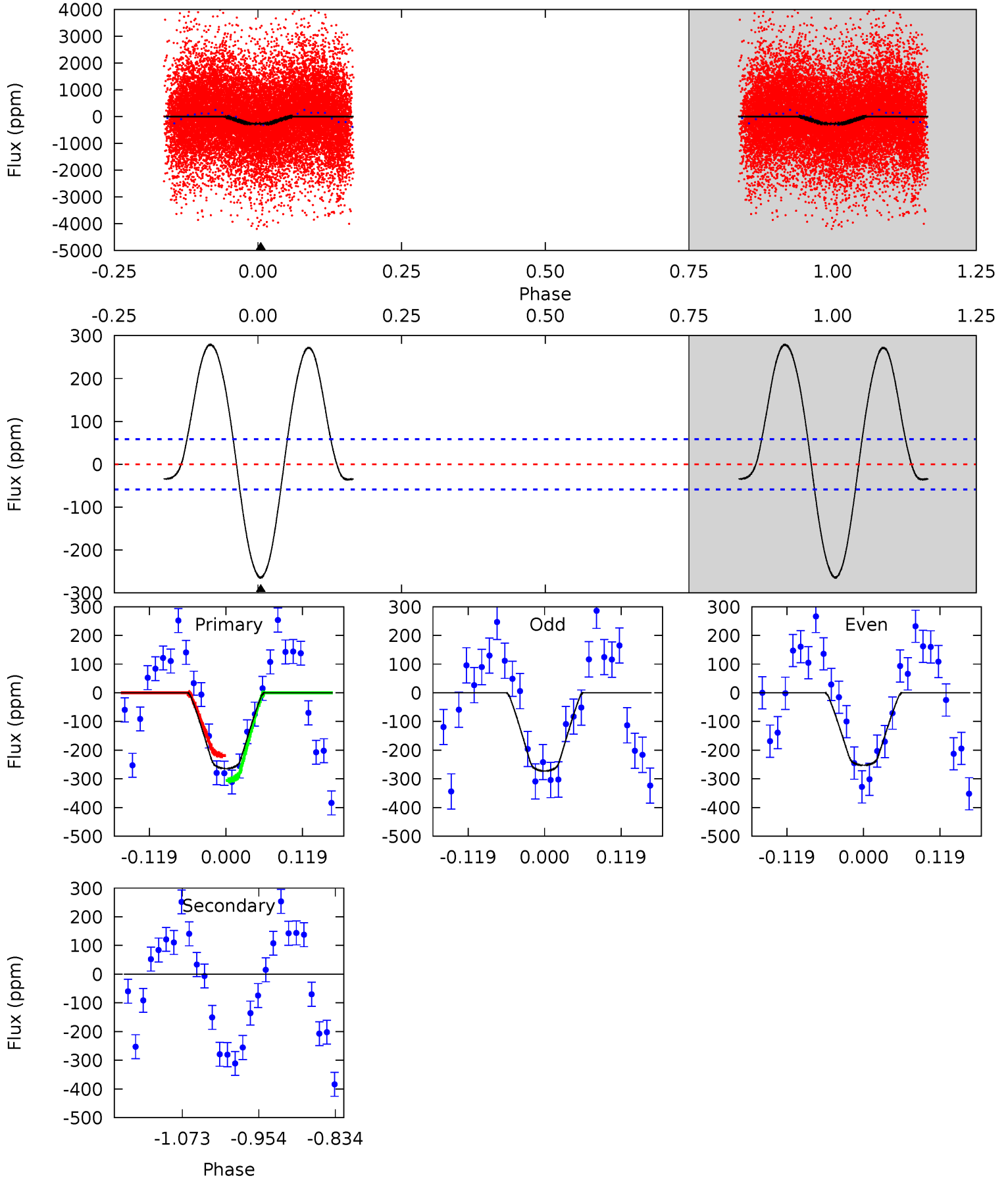


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005977984-03, P = 0.563561 Days, E = 131.212032 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.5	0	0	0	4.53	1.56	3.41	20.5	20.5	0	0	0.79	0.91	0.51	3.54



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005977984

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7311^{+251}_{-395}	$3.745^{+0.400}_{-0.100}$	$-0.020^{+0.200}_{-0.350}$	$2.978^{+0.442}_{-1.326}$	$1.799^{+0.177}_{-0.412}$	$0.096^{+0.368}_{-0.029}$
	+3%/-5%	+11%/-3%	+1000%/-1750%	+15%/-45%	+10%/-23%	+383%/-30%
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 005977984-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 13	$5.89^{+1.90}_{-2.02}$	5897^{+471}_{-679}	-4885^{+508}_{-352}	$0.003^{+0.056}_{-0.061}$
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature
 T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
 A_{obs} = Observed Albedo (Assuming T=0)

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

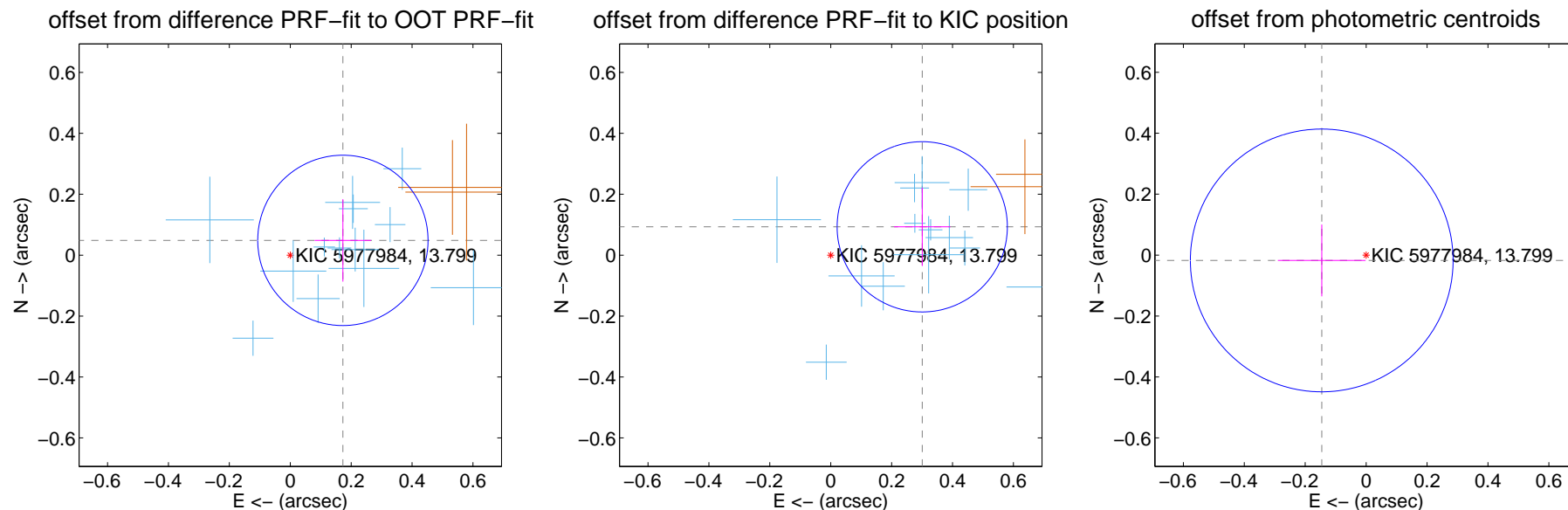
DV Centroid Data

Supplemental centroid analysis for 005977984-03. Kepler magnitude: 13.80. Transit SNR 19.72

There are 14 quarters with good PRF difference image offsets

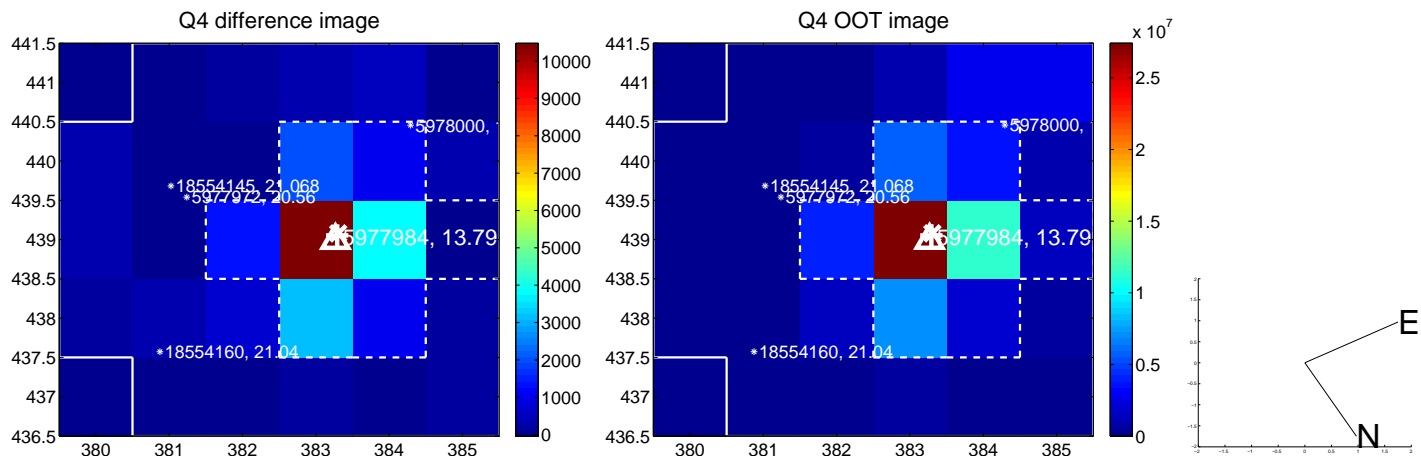
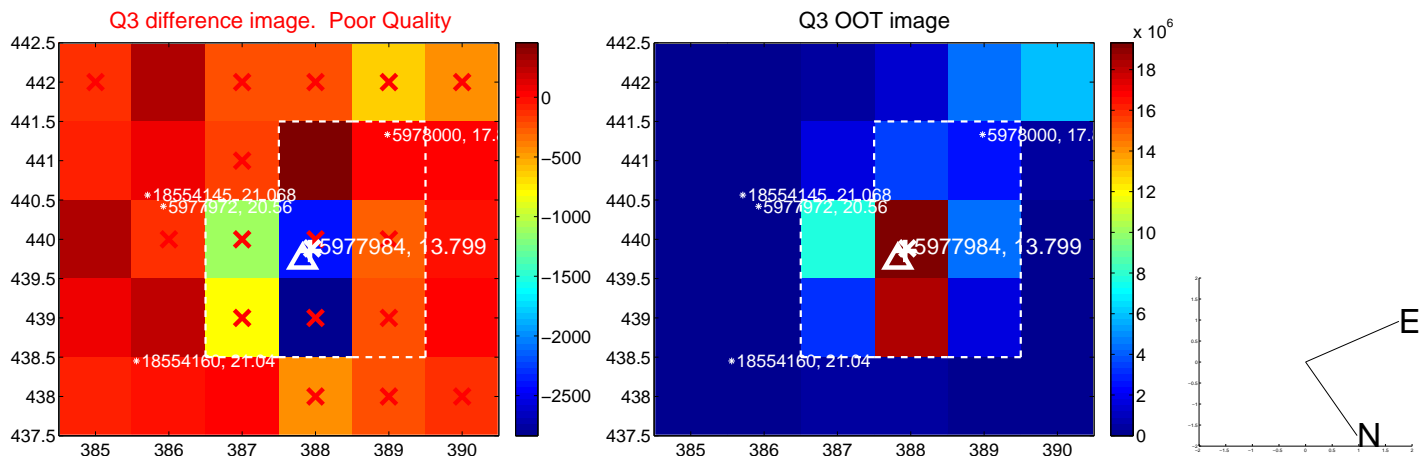
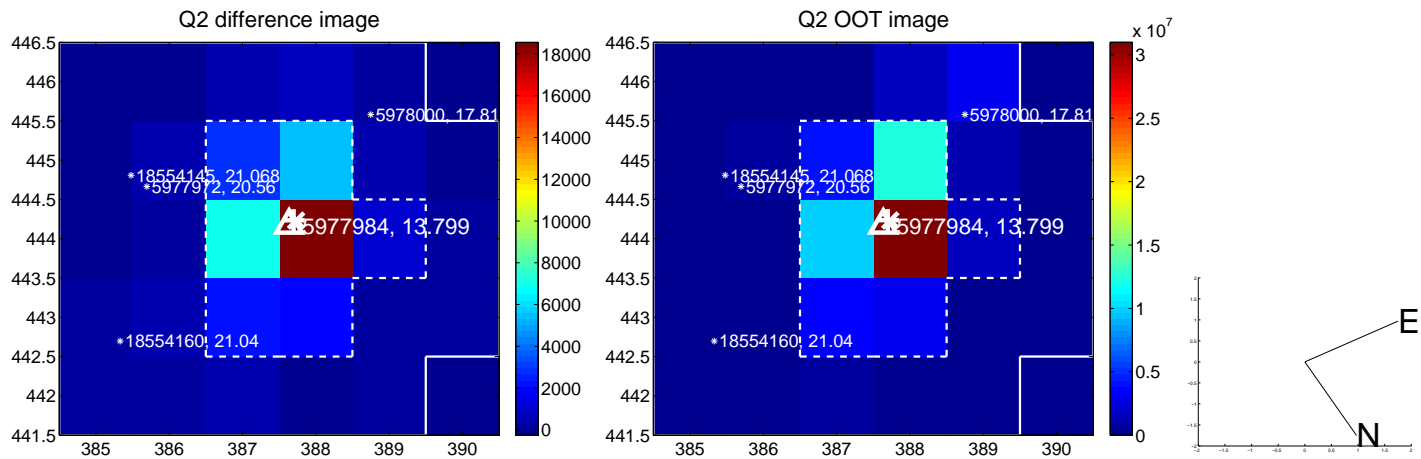
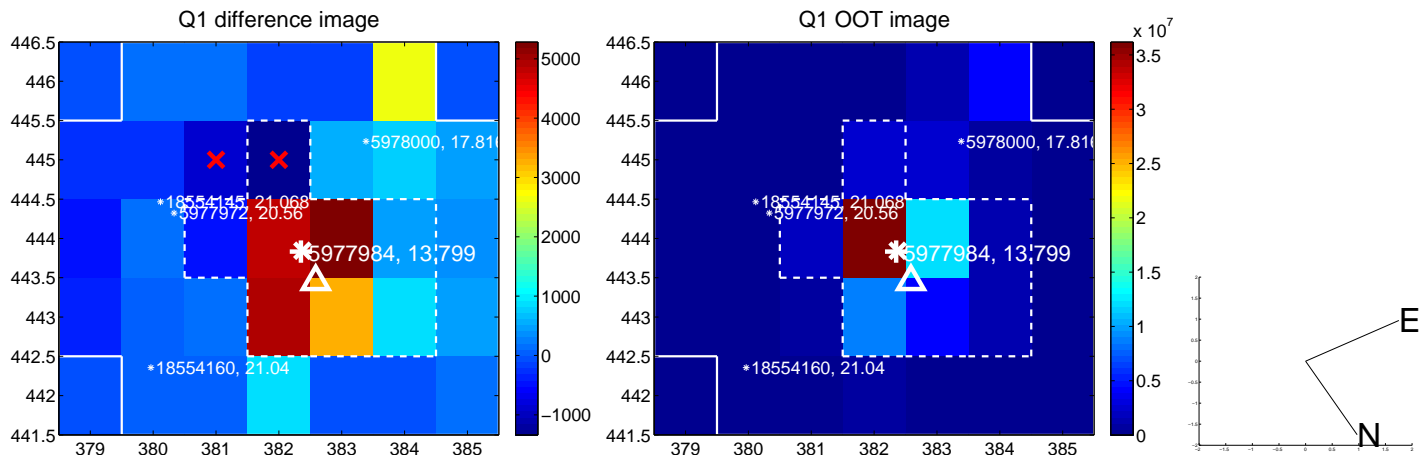
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.180 ± 0.093	1.93	-0.173 ± 0.093	0.049 ± 0.135
PRF-fit source offset from KIC position	0.315 ± 0.093	3.38	-0.301 ± 0.093	0.093 ± 0.128
photometric centroid source offset	0.15 ± 0.14	1.02	0.15 ± 0.14	-0.02 ± 0.12

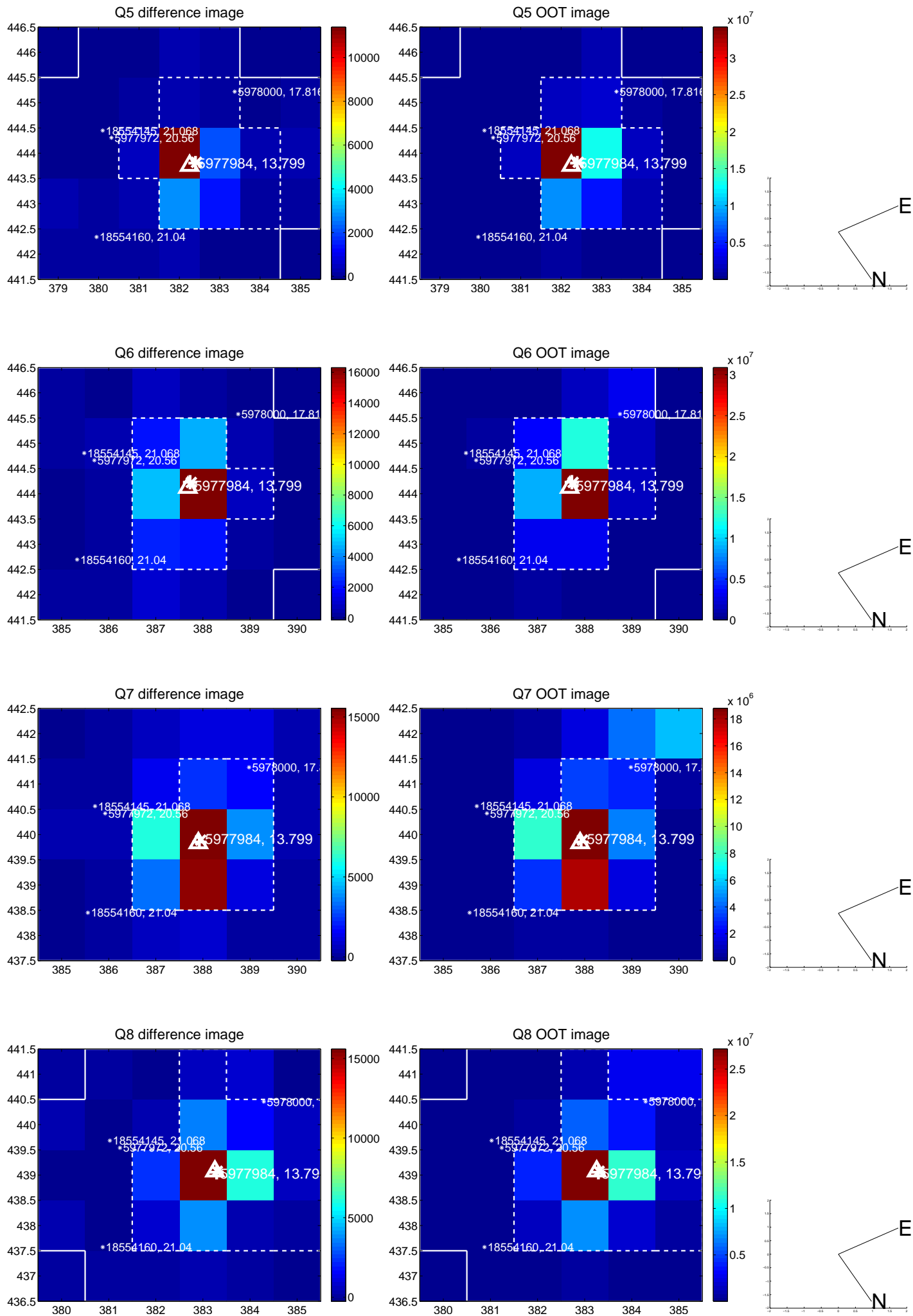


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

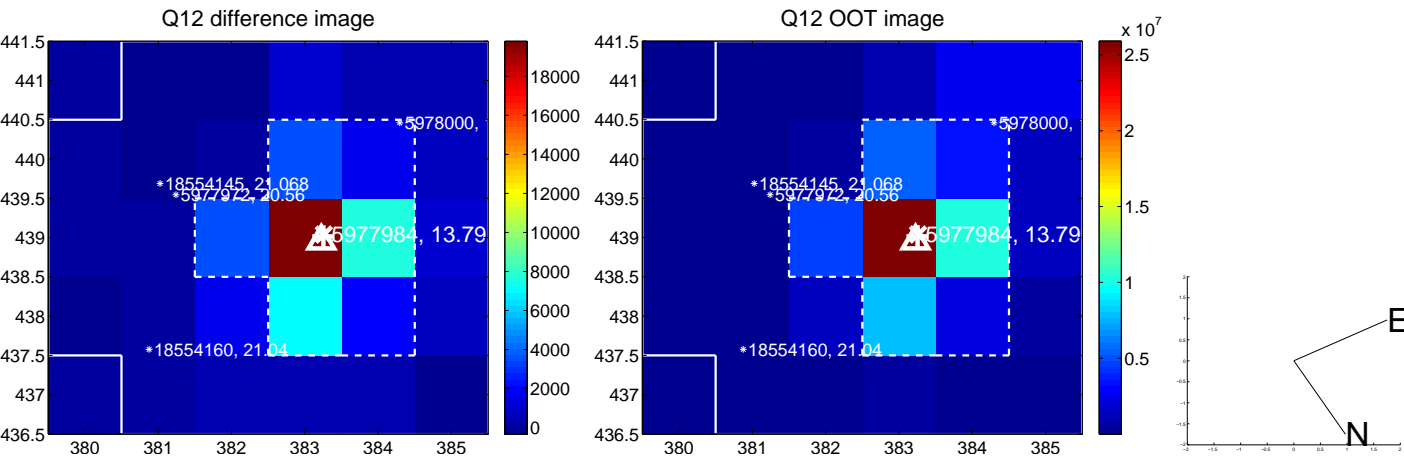
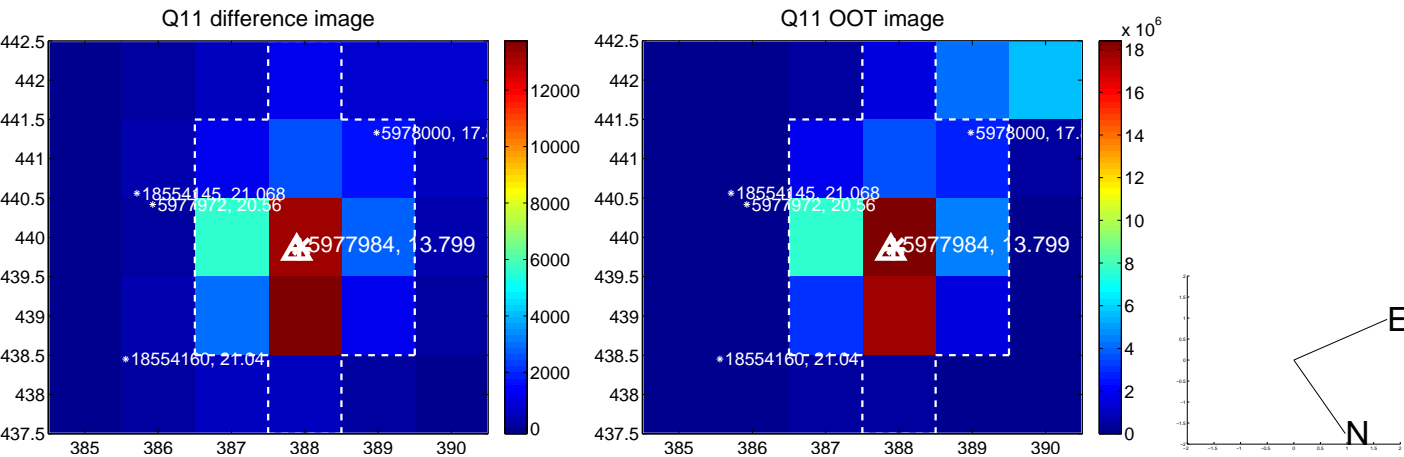
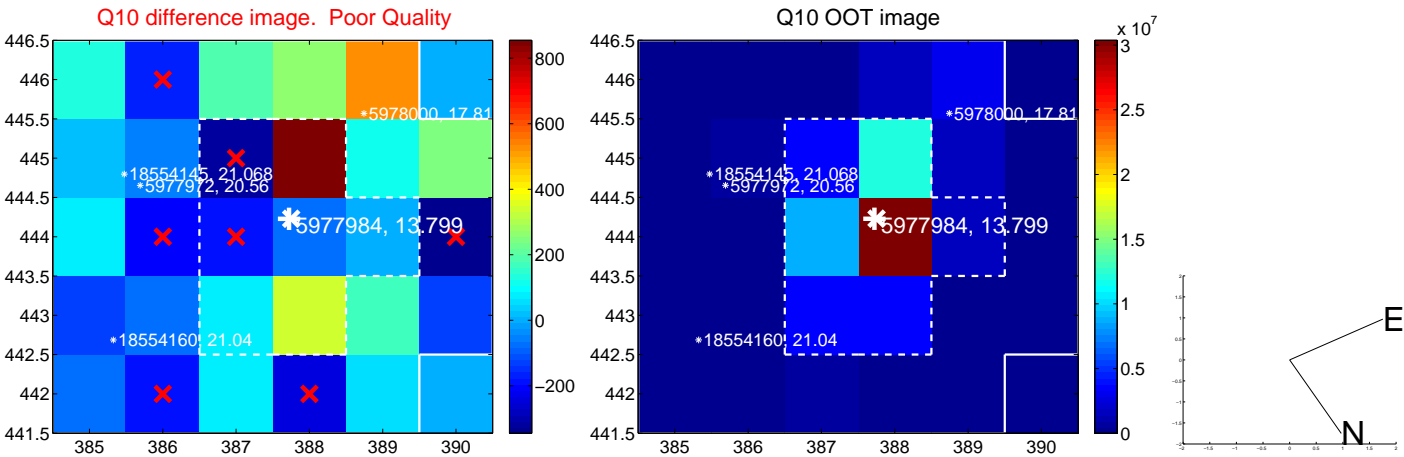
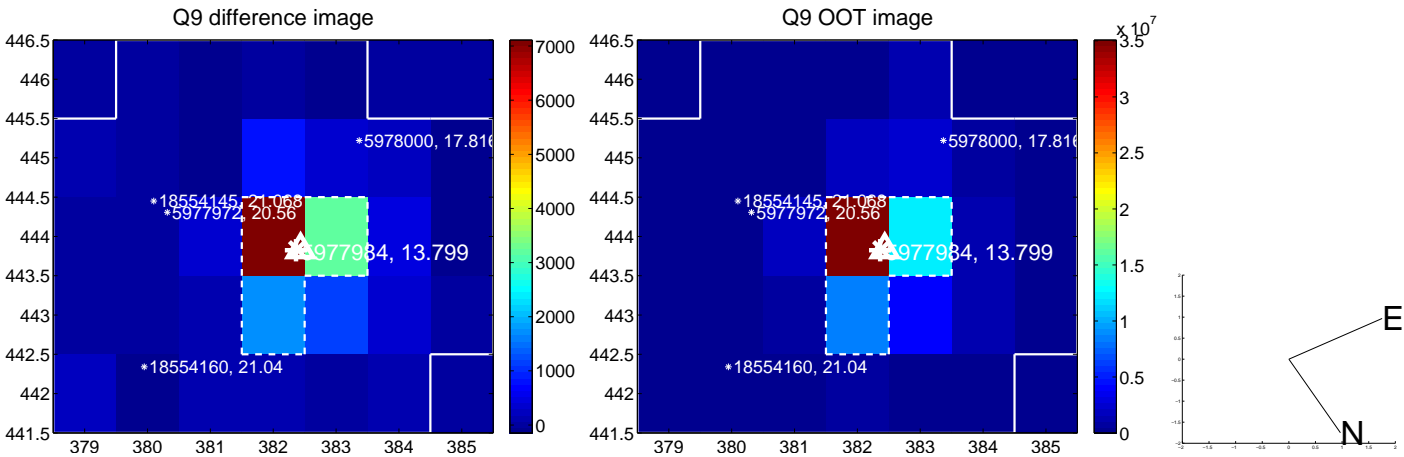
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



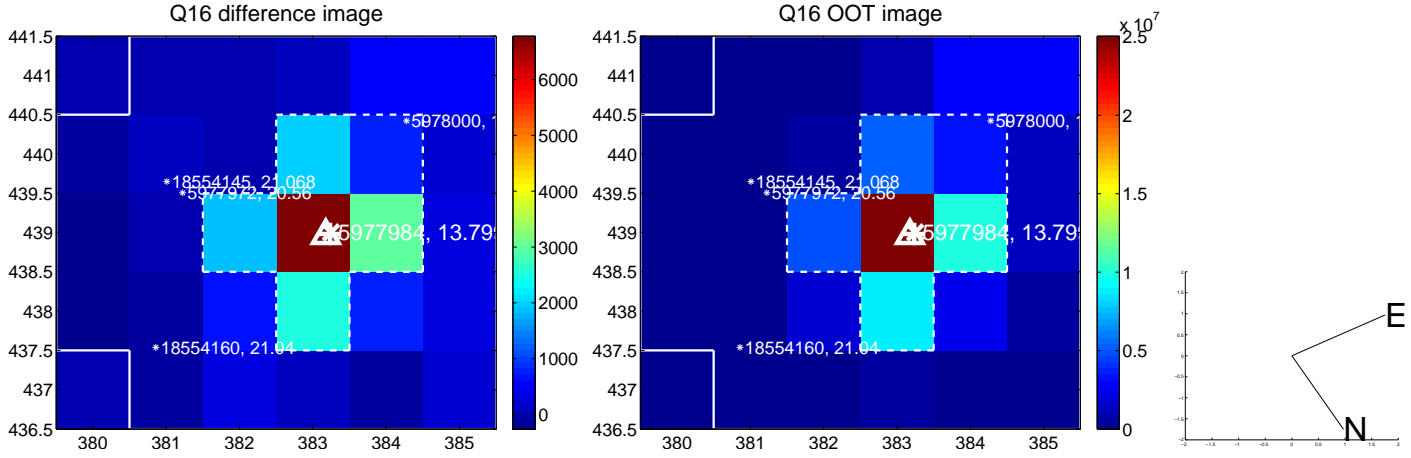
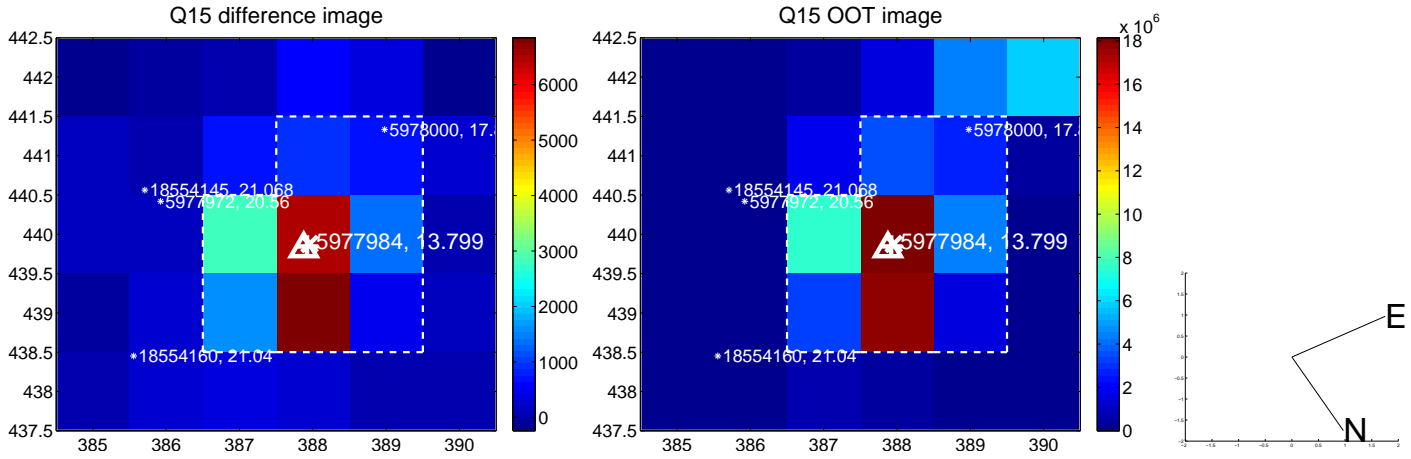
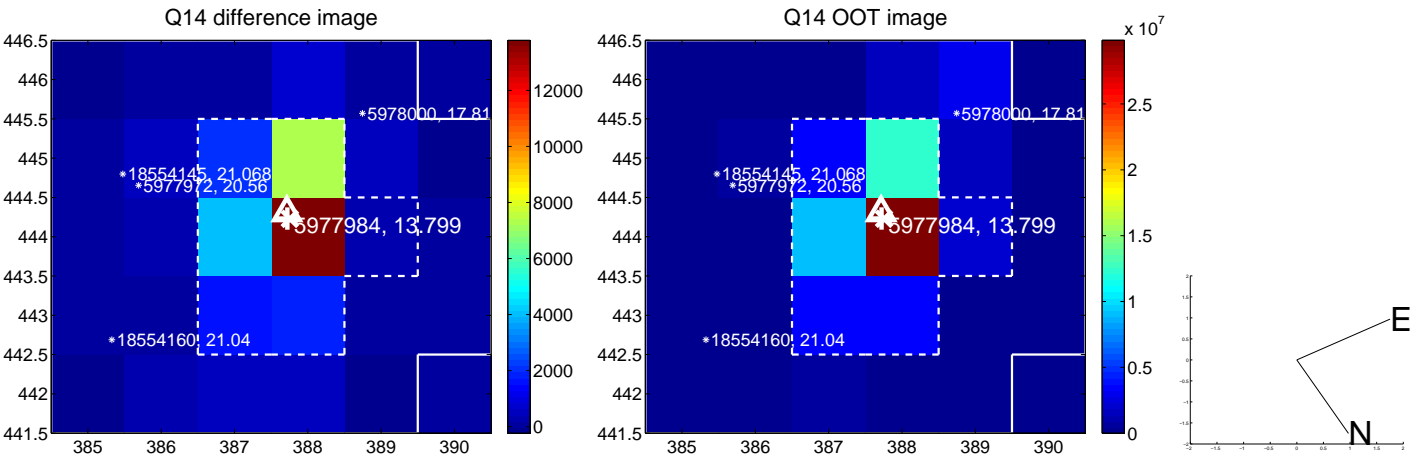
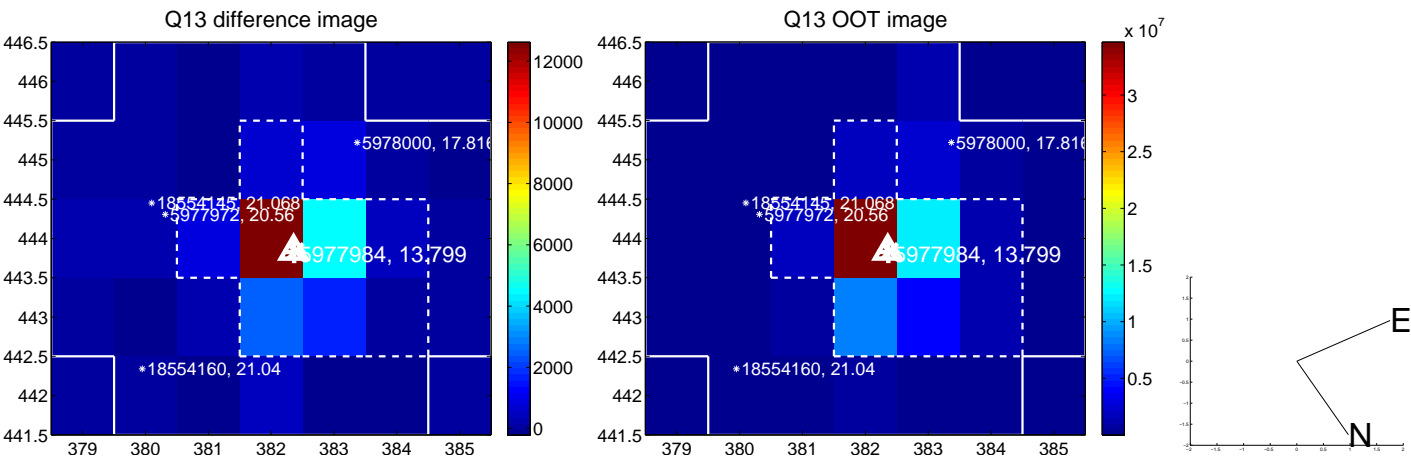
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



UKIRT Image

Declination

