KIC 006442340

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 ($S_\oplus$)
006442340-01	OBS	0664.01	13.137488	143.951461	212.9	4.878	35.8	37.7	1.14	5762	1.89	109.95
006442340-02	OBS	0664.02	7.782006	133.589203	104.4	3.997	20.3	22.3	1.14	5762	1.36	221.02
006442340-03	OBS	0664.03	23.443035	152.013706	86.5	6.039	11.1	12.0	1.14	5762	1.38	50.80

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006442340-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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.

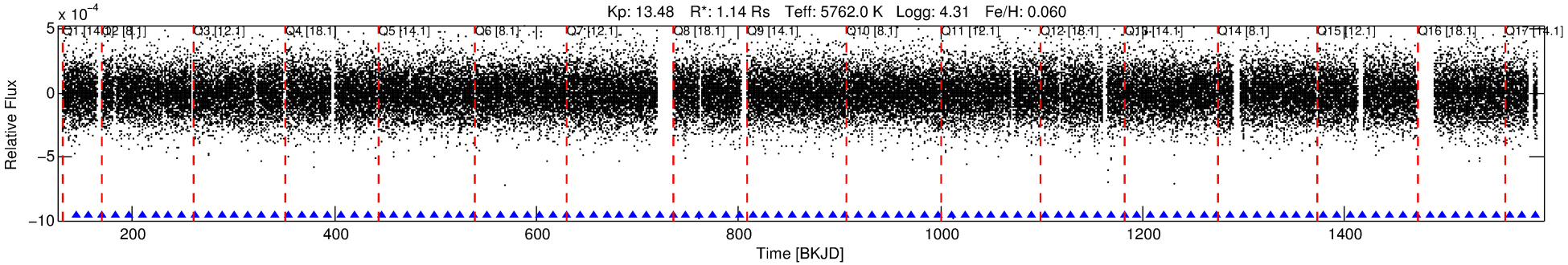
Ephemeris Match Information For 006442340-01

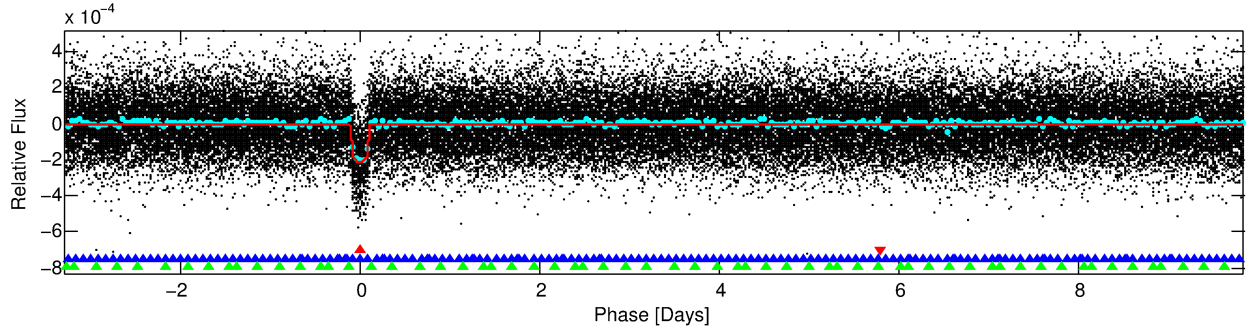
No Significant Match Found

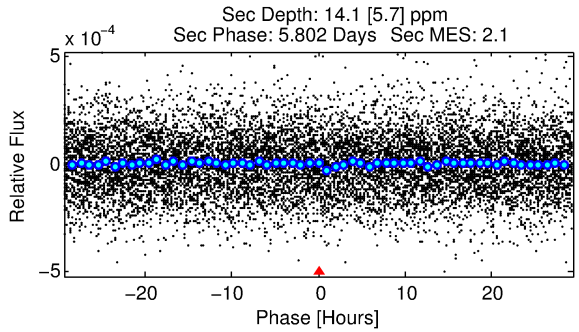
DV One-Page Summary

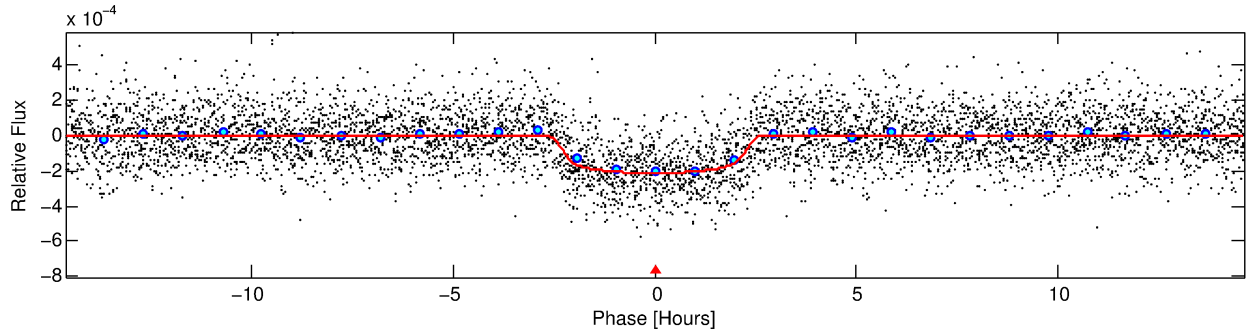
KIC: 6442340 Candidate: 1 of 3 Period: 13.137 d
KOI: K00664.01 Name: Kepler−206c Corr: 0.990

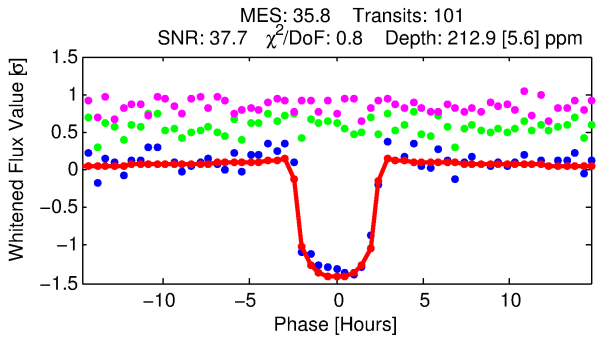
Kp: 13.48 R*: 1.14 Rs Teff: 5762.0 K Logg: 4.31 Fe/H: 0.060

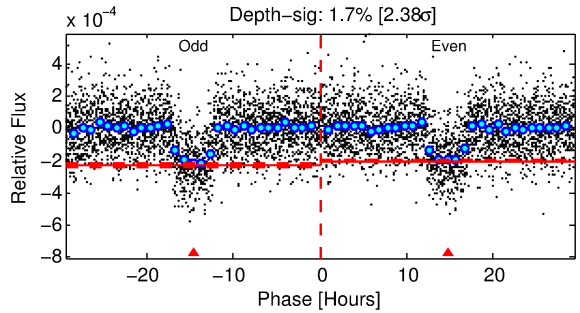


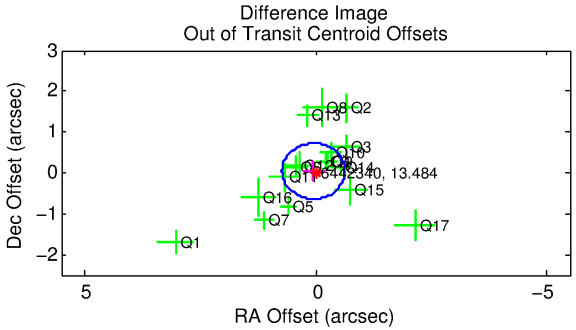












DV Fit Results:

Period = 13.13749 [0.00004] d
Epoch = 143.9515 [0.0024] BKJD
Rp/R* = 0.0151 [0.0026]
a/R* = 11.88 [9.13]
b = 0.84 [0.28]

Seff = 109.95 [26.61]
Teq = 826 [50] K
Rp = 1.89 [0.44] Re
a = 0.1083 [0.0159] AU

Ag = 25.50 [14.67] [1.67σ]
Teffp = 2869 [383] K [5.29σ]

DV Diagnostic Results:

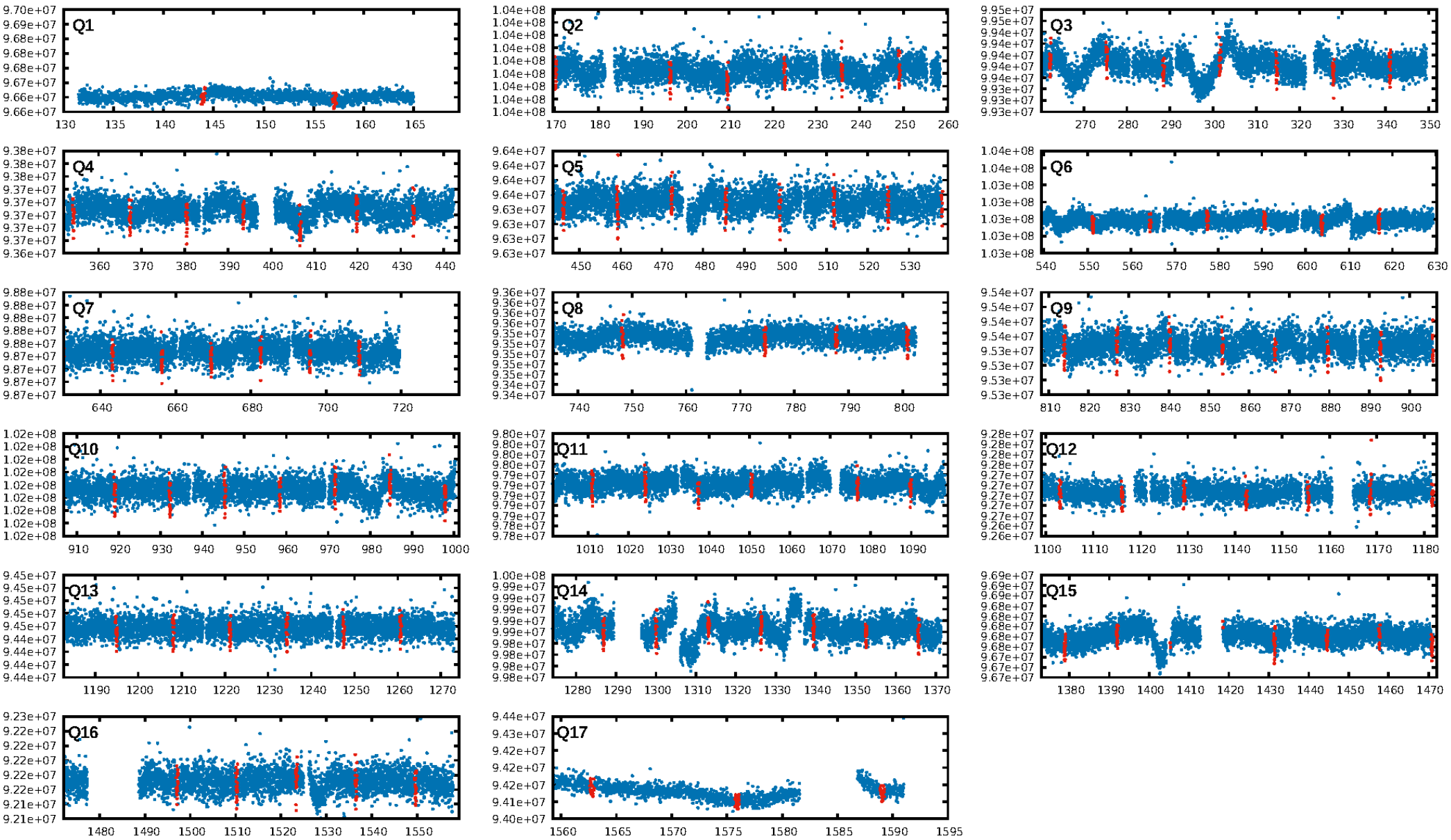
ShortPeriod−sig: 100.0% [20.38σ]
LongPeriod−sig: 100.0% [31.86σ]
ModelChiSquare2−sig: 100.0%
ModelChiSquareGof−sig: 100.0%
Bootstrap−pfa: 1.12e−257
RollingBand−fgt: 1.00 [96/96]
GhostDiagnostic−chr: 3.911

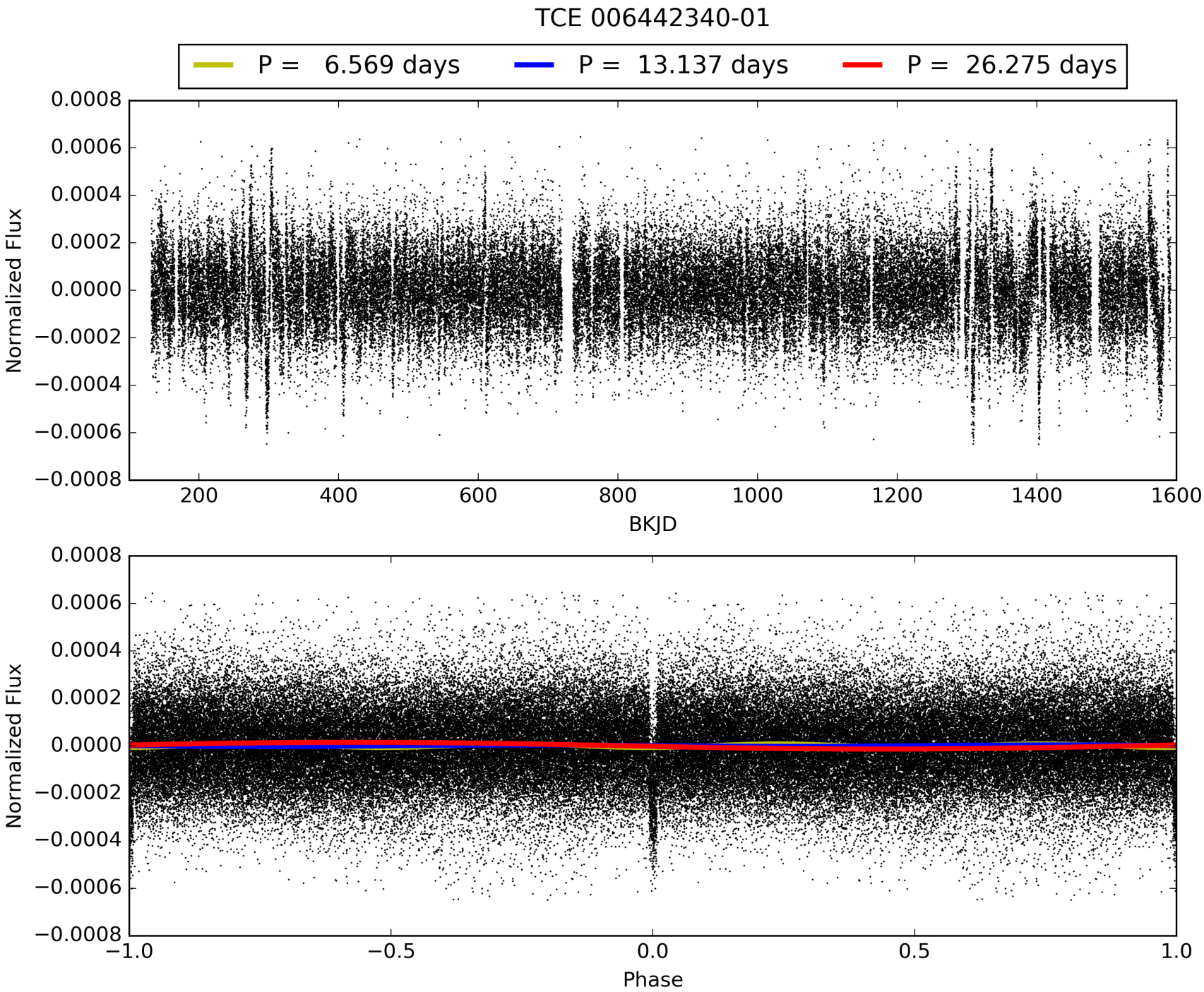
Centroid−sig: 16.8%
Centroid−so: 0.267 arcsec [0.86σ]
OotOffset−rm: 0.063 arcsec [0.28σ]
KicOffset−rm: 0.051 arcsec [0.22σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 0.94 [16/17]
DiffImageOverlap−fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 29−Jan−2016 12:19:11 Z

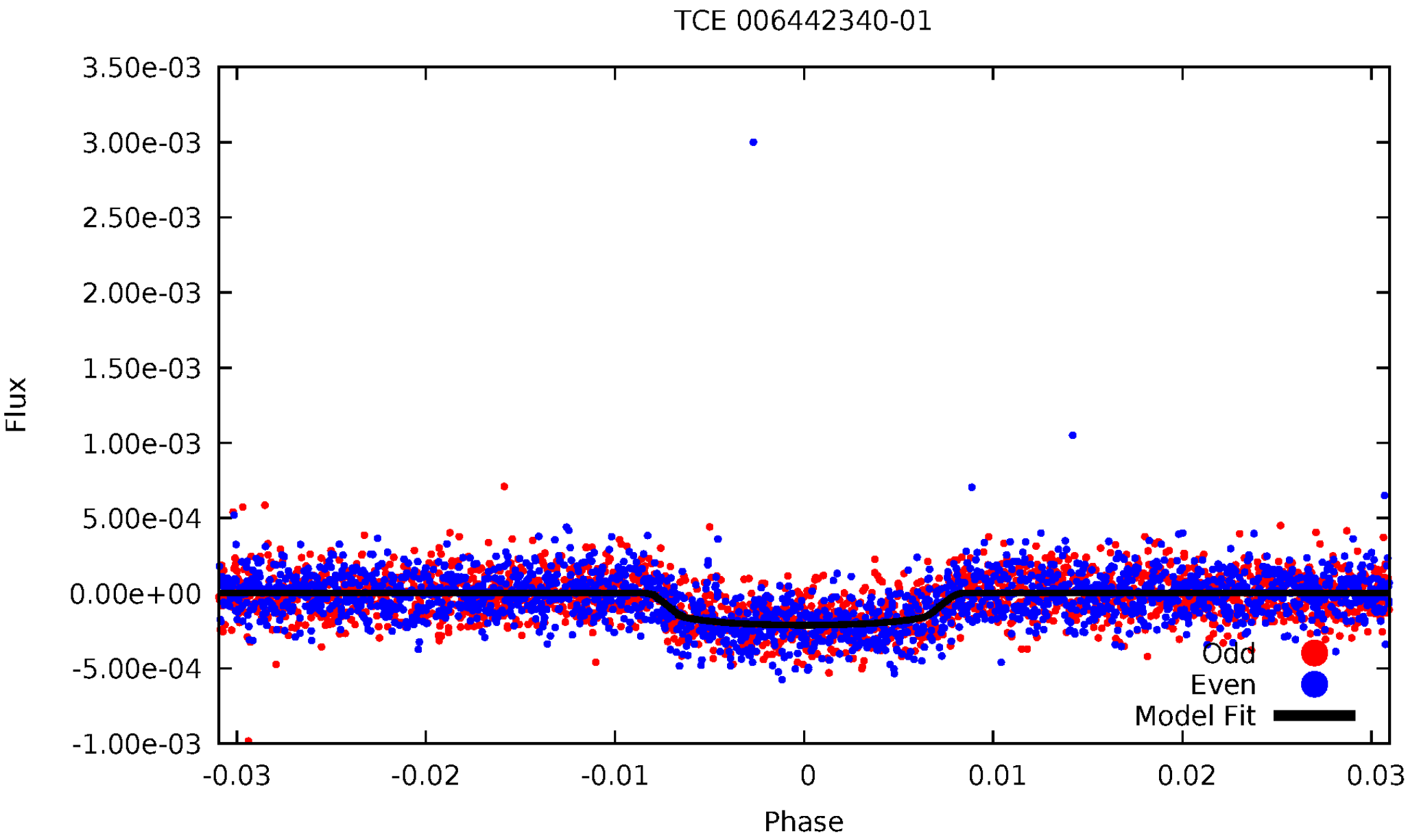
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006442340-01, PDC Light Curves

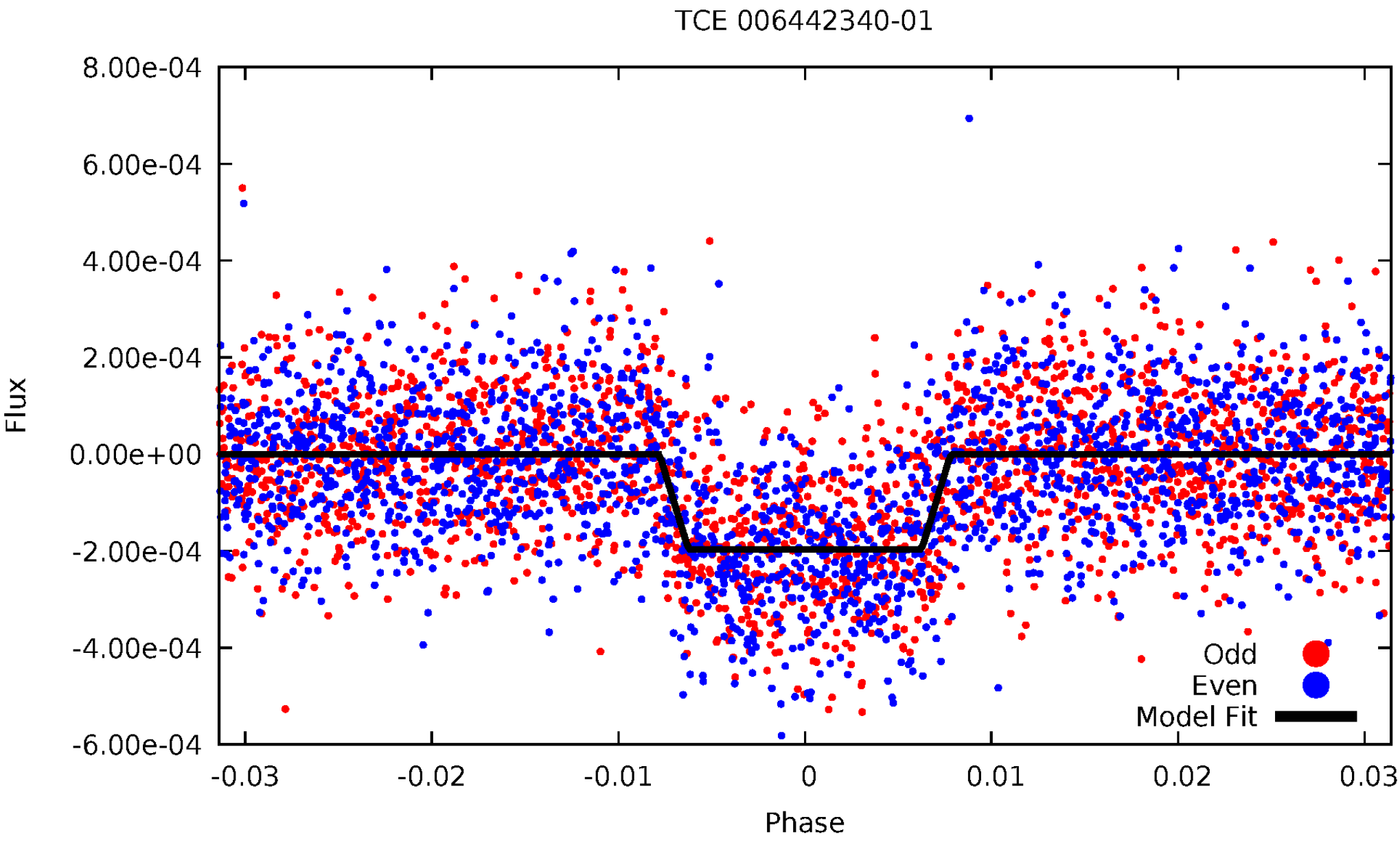



TCE 006442340-01
P = 6.569 days
P = 13.137 days
P = 26.275 days
Normalized Flux
BKJD
Normalized Flux
Phase

DV Odd/Even


TCE 006442340-01
3.50e-03
3.00e-03
2.50e-03
2.00e-03
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
Flux
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
Phase
Odd
Even
Model Fit

ALT Odd/Even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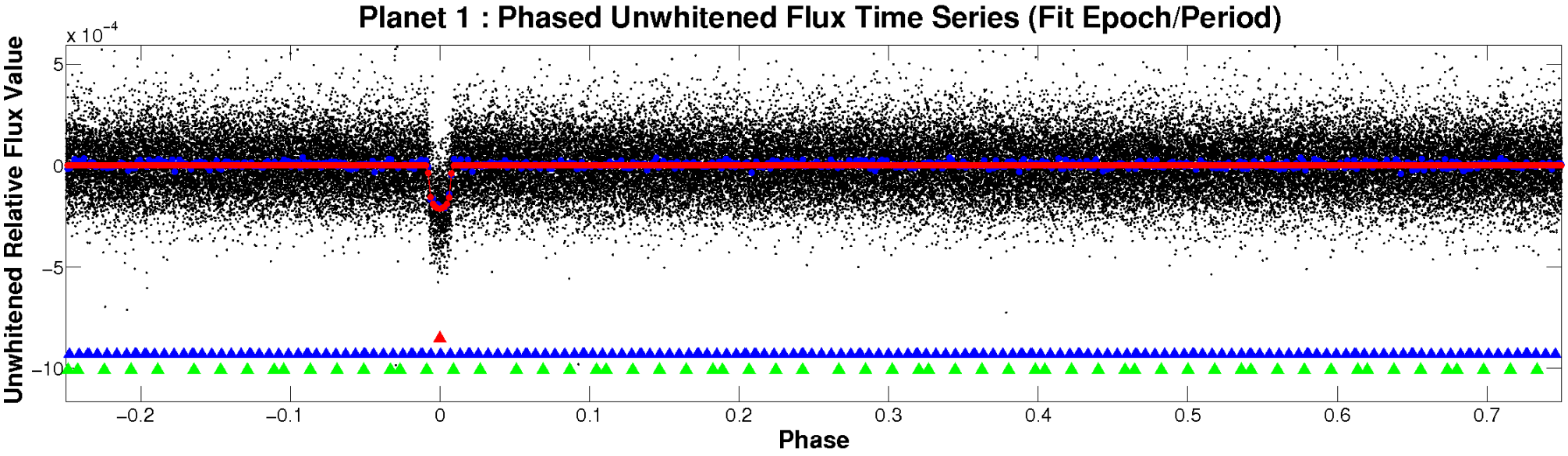
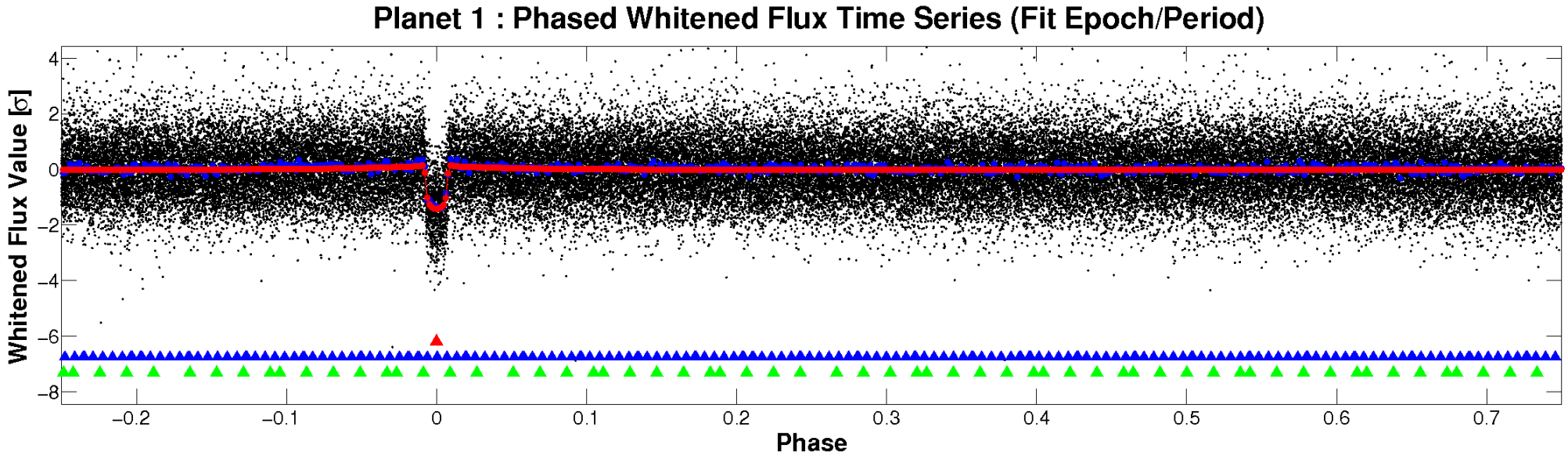
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
Flux
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
Phase
Odd
Even
Model Fit

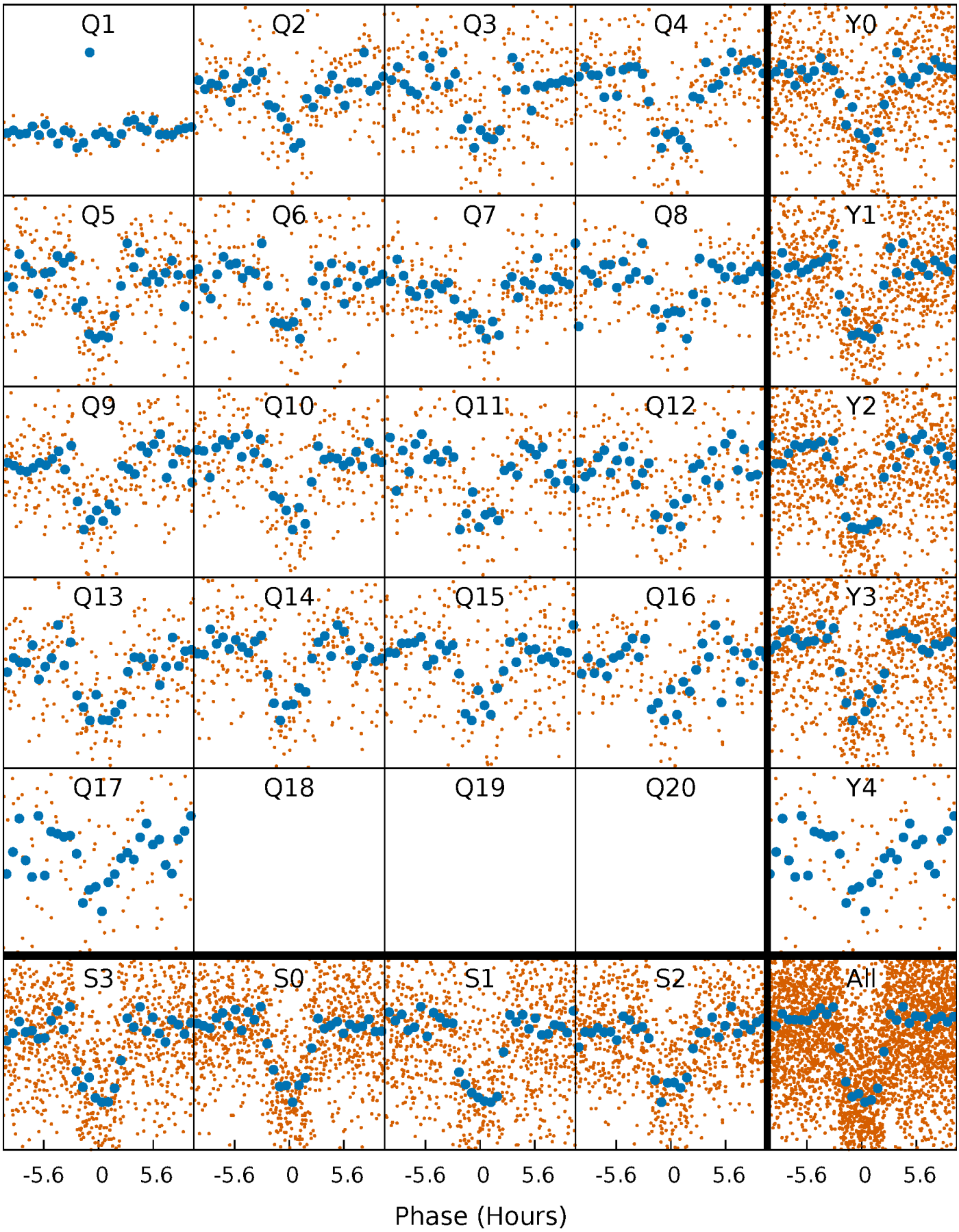
Non-Whitened Vs. Whitened Light Curve





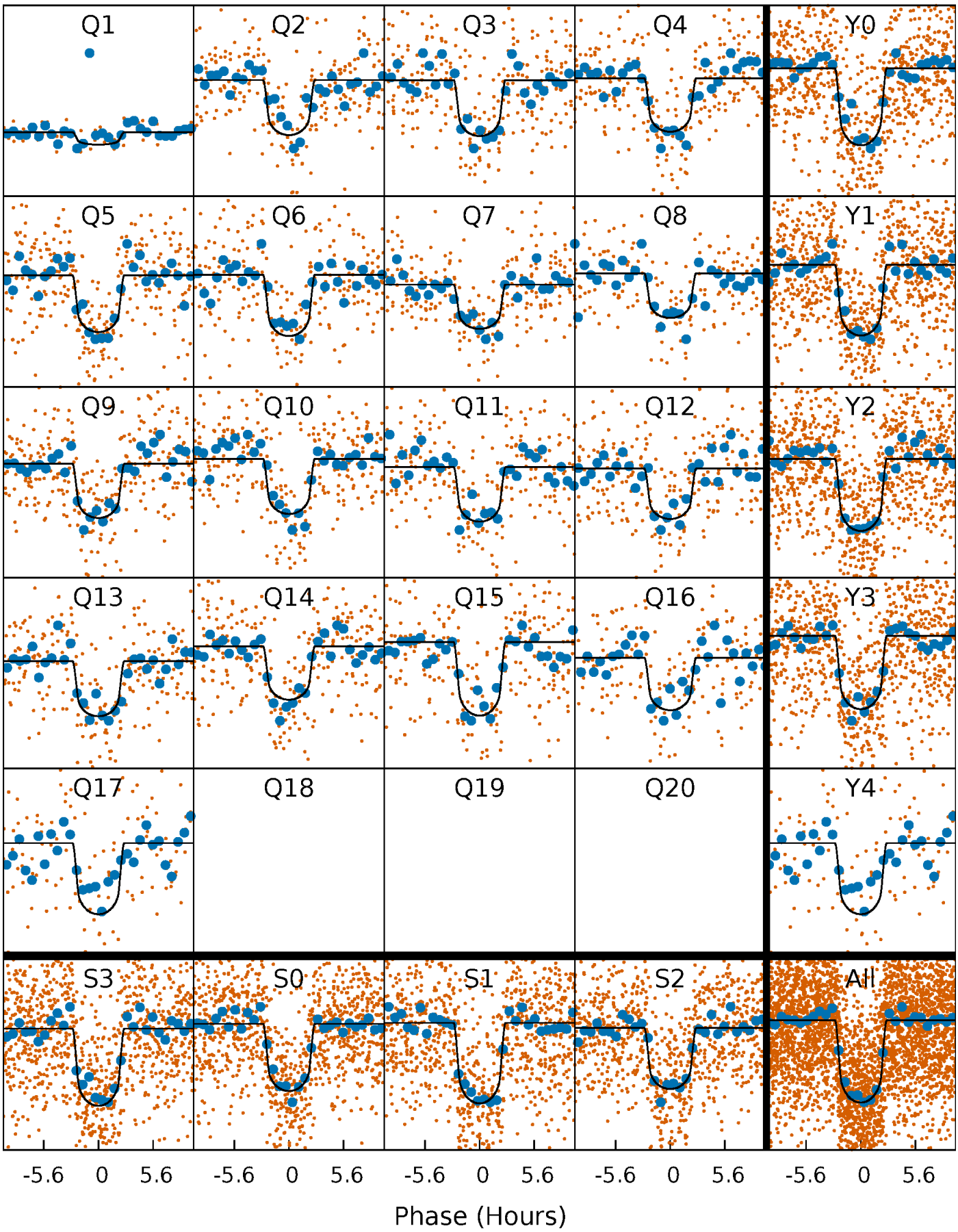
PDC Quarter-Phased Transit Curves

TCE 006442340-01 P= 13.137488 Days T_0=143.951461 (BKJD)



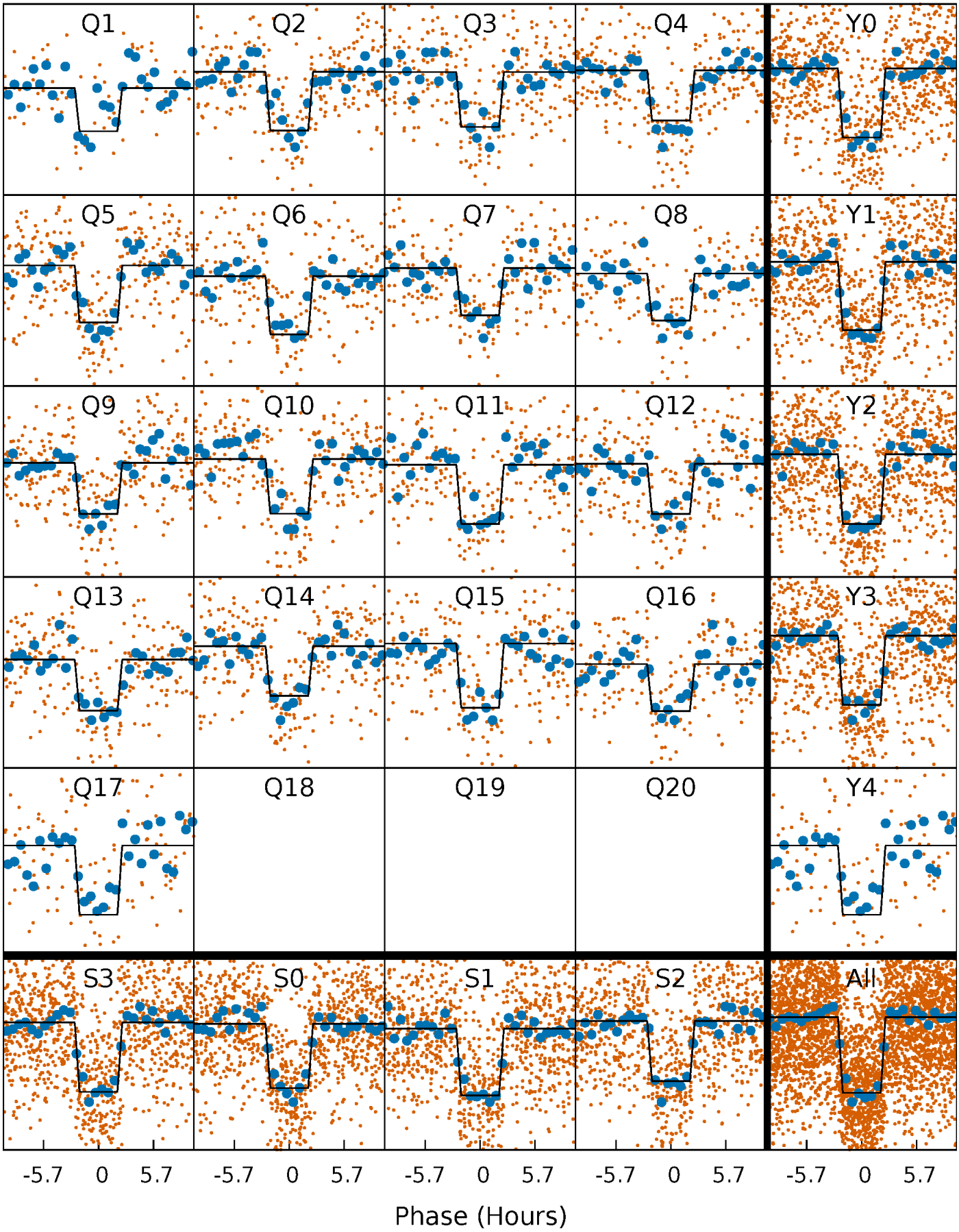
DV Quarter-Phased Transit Curves

TCE 006442340-01 P= 13.137488 Days T_0=143.951461 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

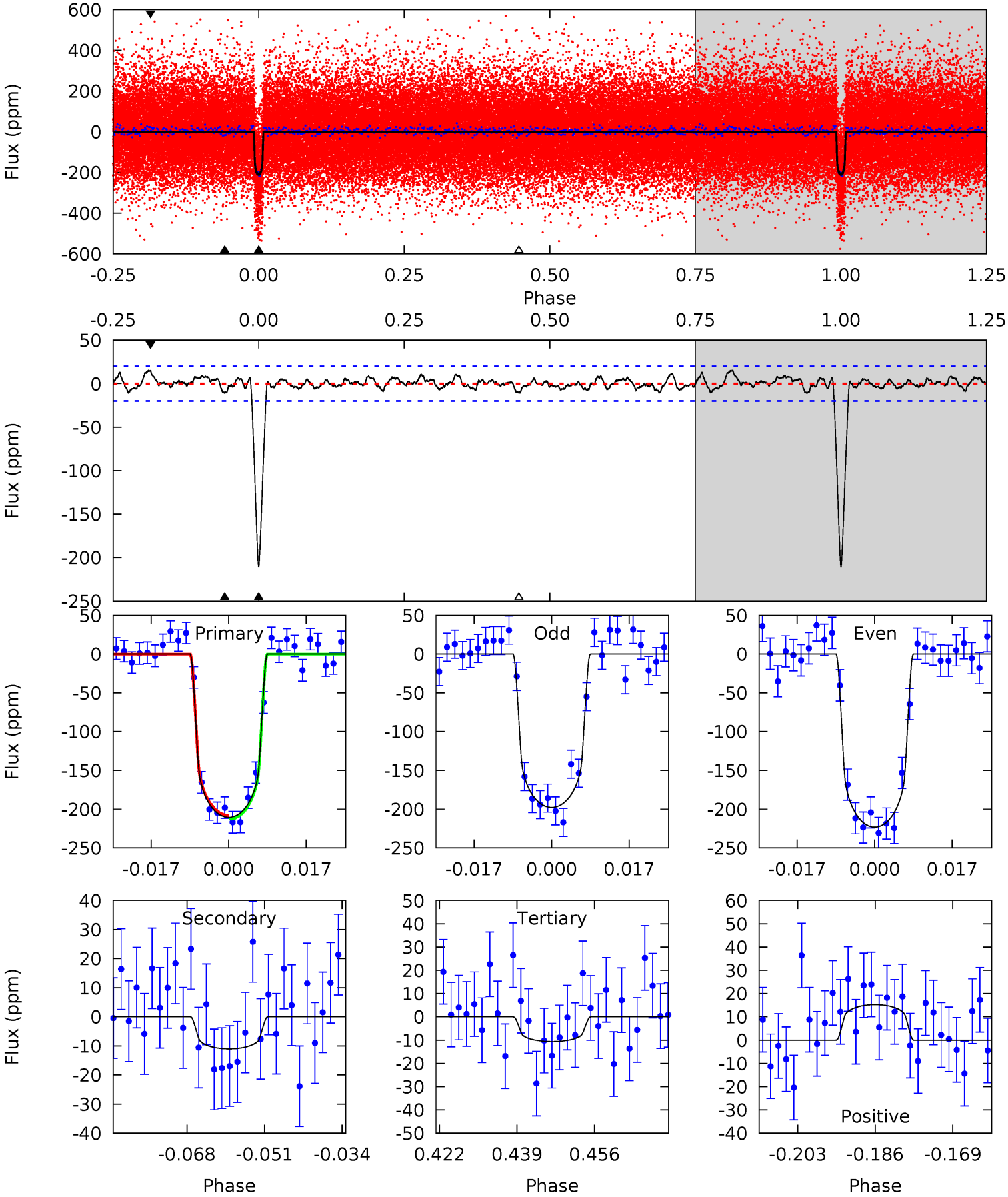
TCE 006442340-01 P= 13.137455 Days T_0=143.953208 (BKJD)



DV Model-Shift Uniqueness Test

006442340-01, P = 13.137488 Days, E = 130.813973 Days

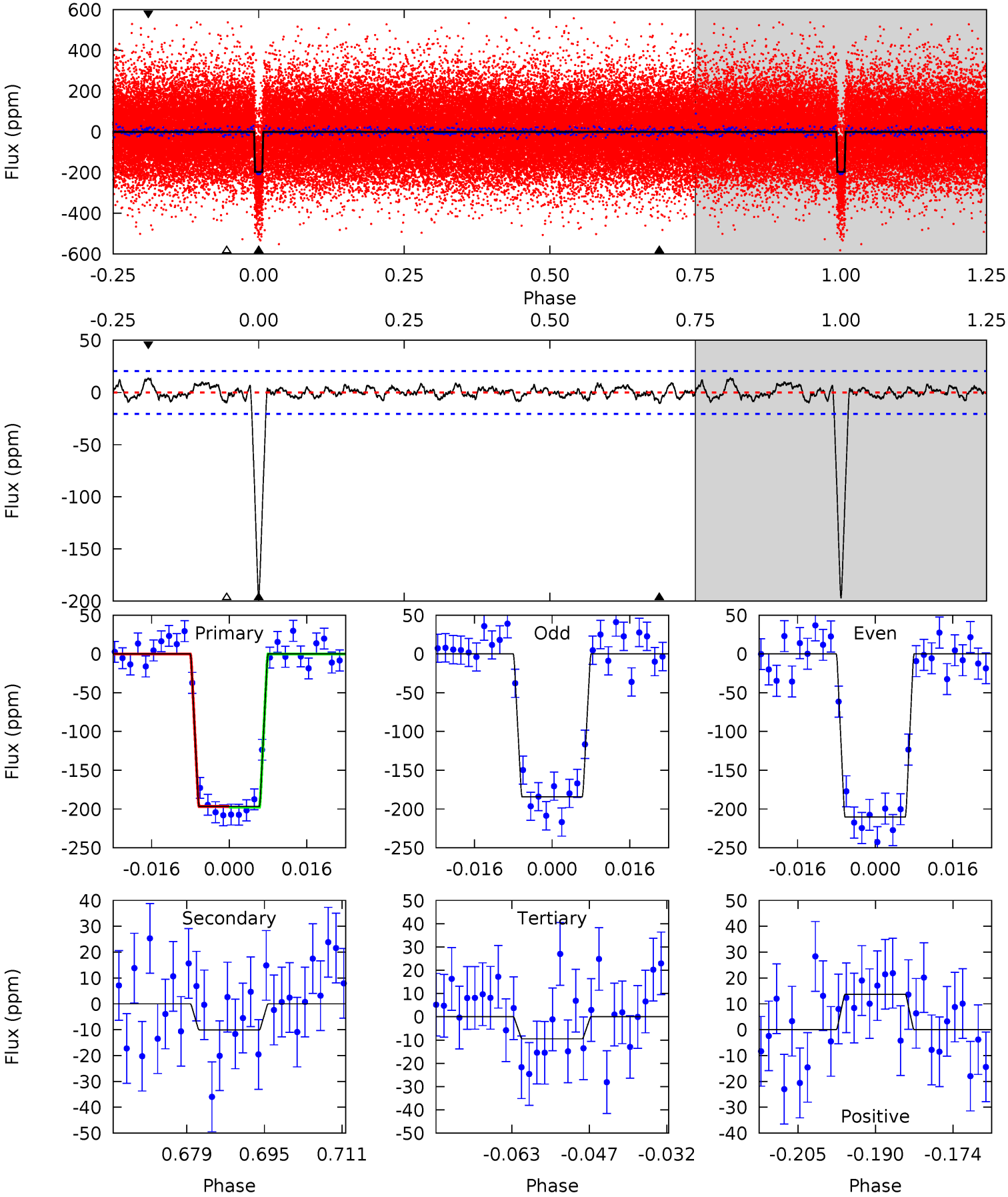
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
52.0	2.72	2.63	3.76	4.92	2.39	1.15	49.4	48.2	0.09	-1.04	3.14	0.97	0.07	0.59



Alt Model-Shift Uniqueness Test

006442340-01, P = 13.137455 Days, E = 130.815753 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
47.2	2.41	2.28	3.27	4.94	2.41	1.02	44.9	43.9	0.14	-0.86	3.14	0.96	0.06	0.12



Stellar Parameters For KIC 006442340

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5762^{+104}_{-115}	$4.314^{+0.132}_{-0.108}$	$0.060^{+0.150}_{-0.150}$	$1.143^{+0.181}_{-0.164}$	$0.982^{+0.079}_{-0.065}$	$0.927^{+0.553}_{-0.294}$
	+2%/-2%	+3%/-3%	+250%/-250%	+16%/-14%	+8%/-7%	+60%/-32%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006442340-01 / KOI 0664.01

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-11±4	$1.89^{+0.36}_{-0.34}$	1151^{+53}_{-52}	3244^{+275}_{-255}	20^{+13}_{-9}
Alt.	-10±4	$1.75^{+0.35}_{-0.36}$	1148^{+56}_{-50}	3271^{+303}_{-300}	21^{+16}_{-10}

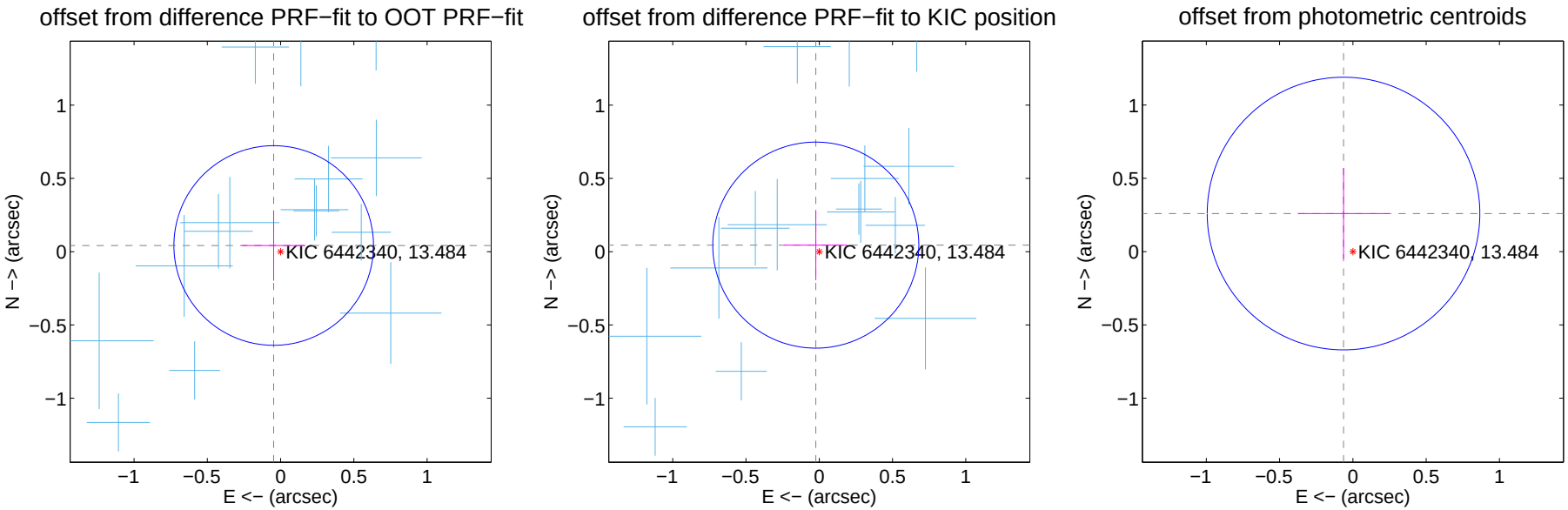
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

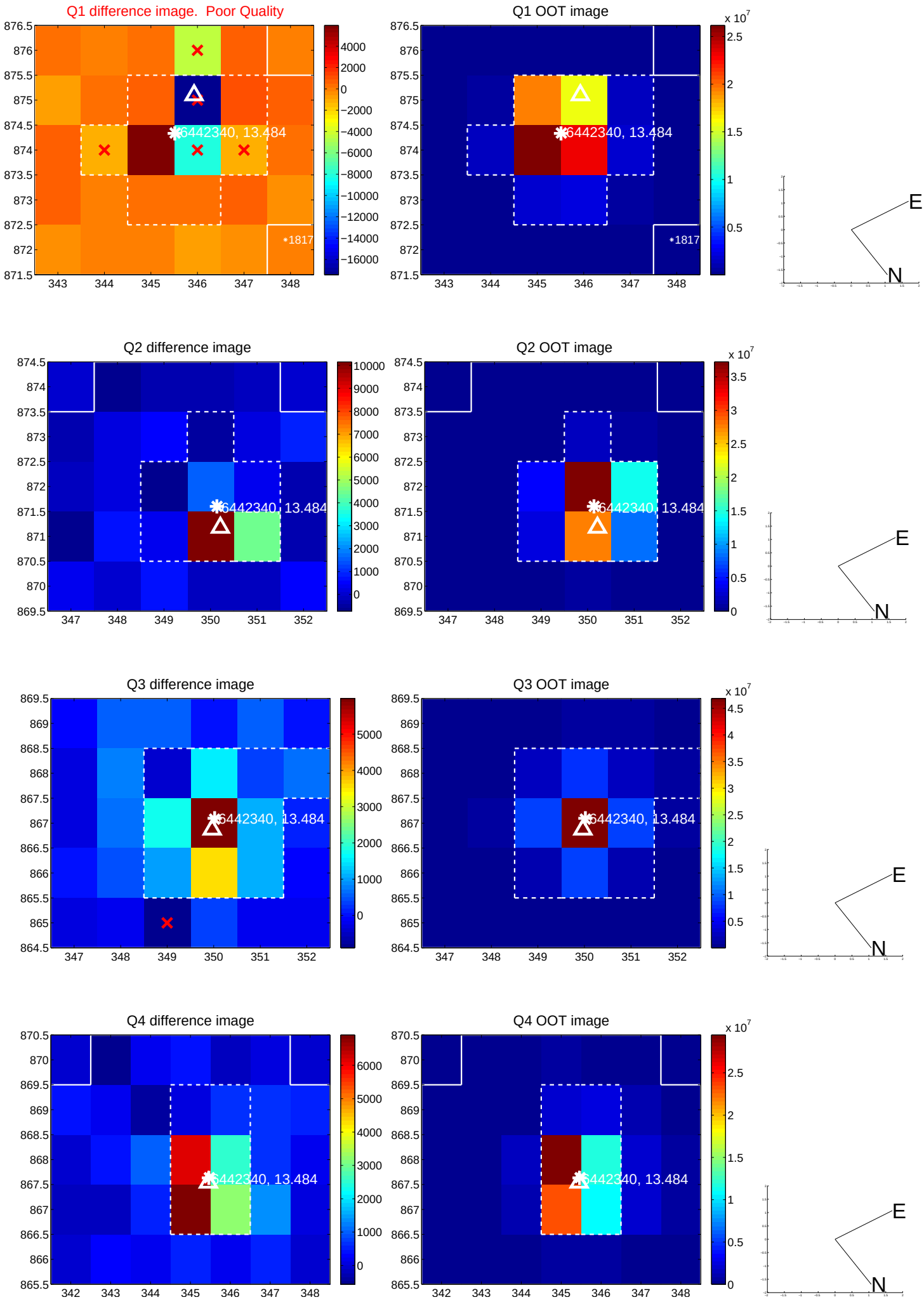
Supplemental centroid analysis for 006442340-01. Kepler magnitude: 13.48. Transit SNR 37.68
There are 16 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.063 ± 0.227	0.28	0.047 ± 0.216	0.042 ± 0.240
PRF-fit source offset from KIC position	0.051 ± 0.234	0.22	0.024 ± 0.215	0.045 ± 0.240
photometric centroid source offset	0.27 ± 0.31	0.86	0.06 ± 0.31	0.26 ± 0.31

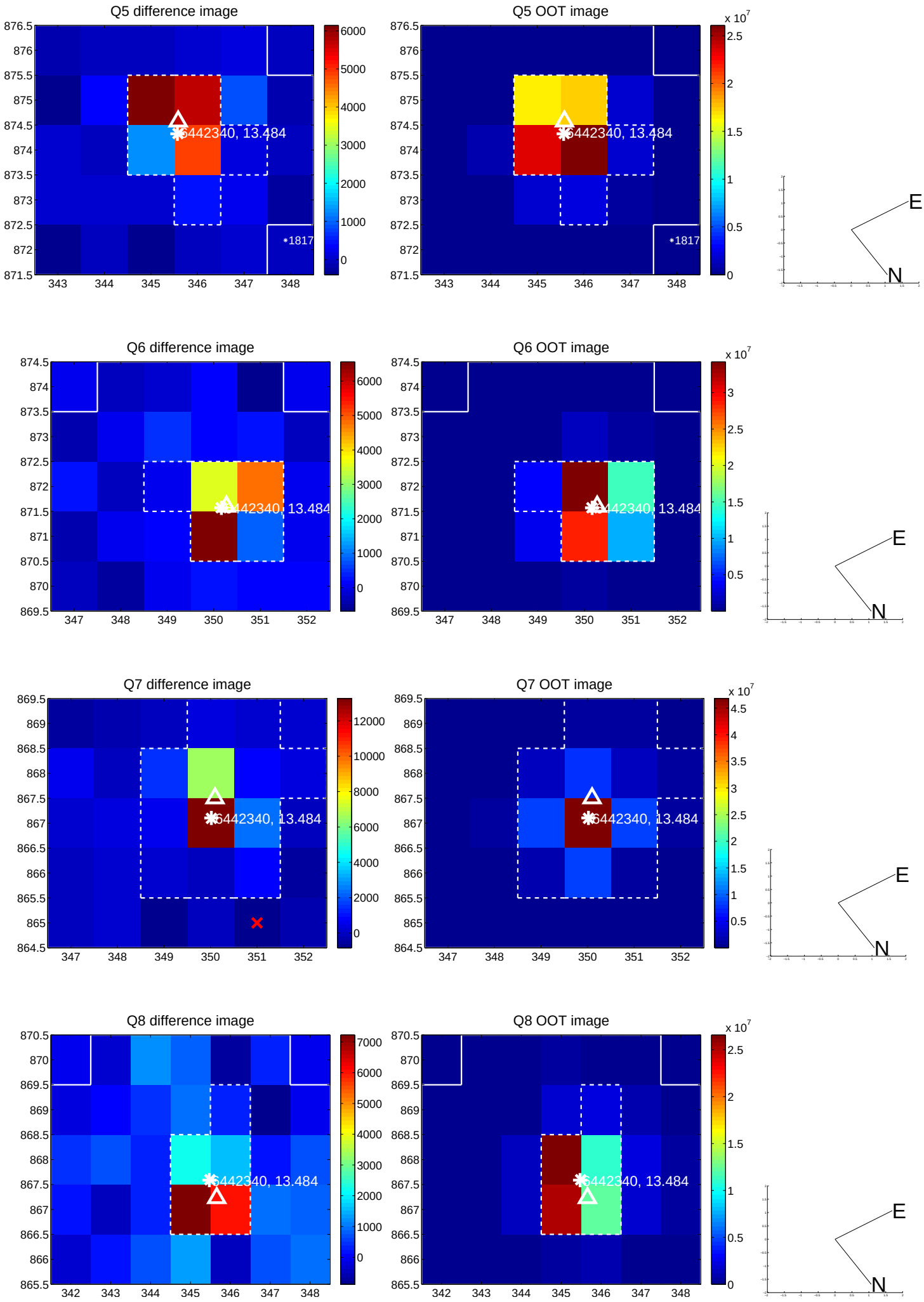


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

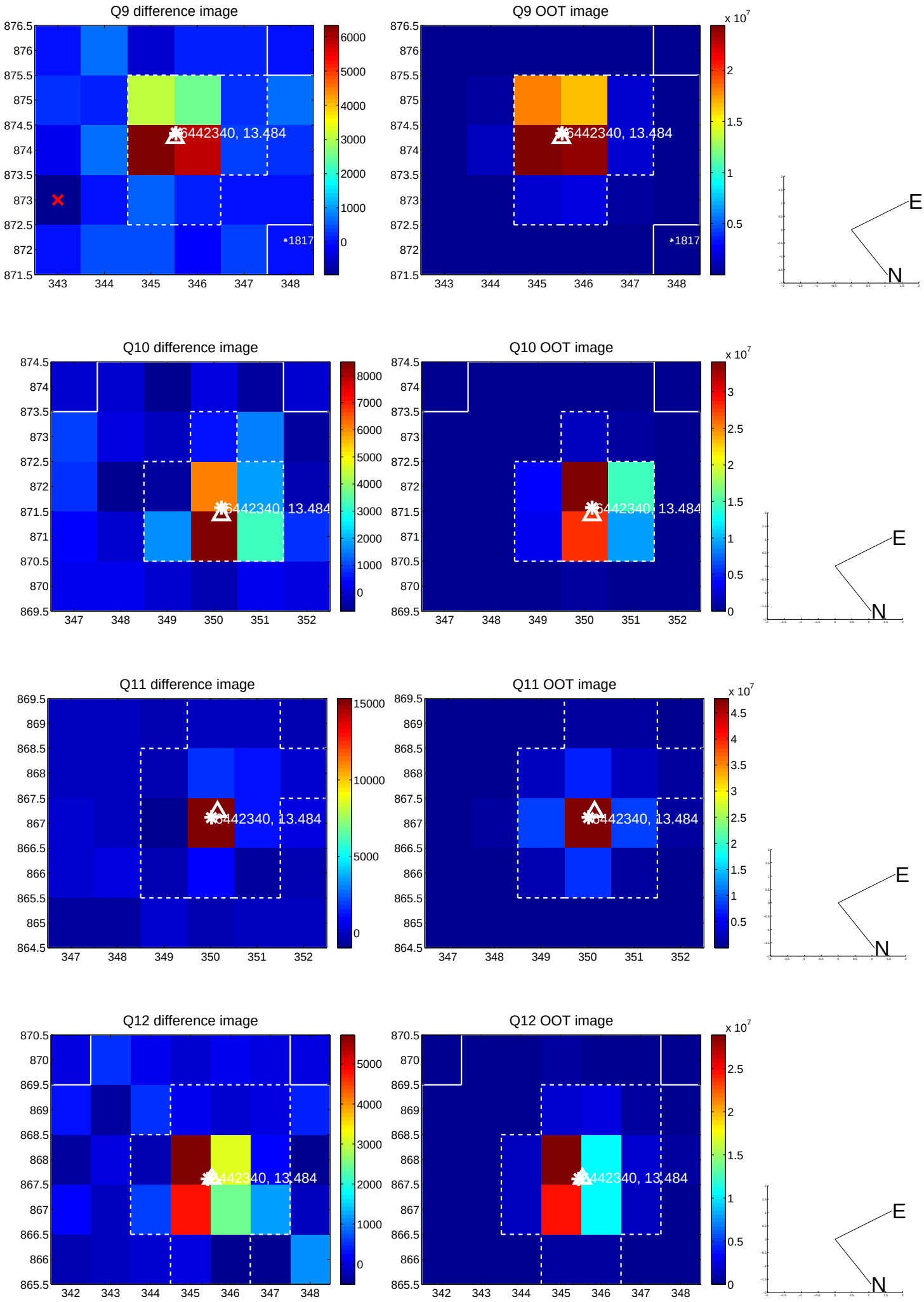
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



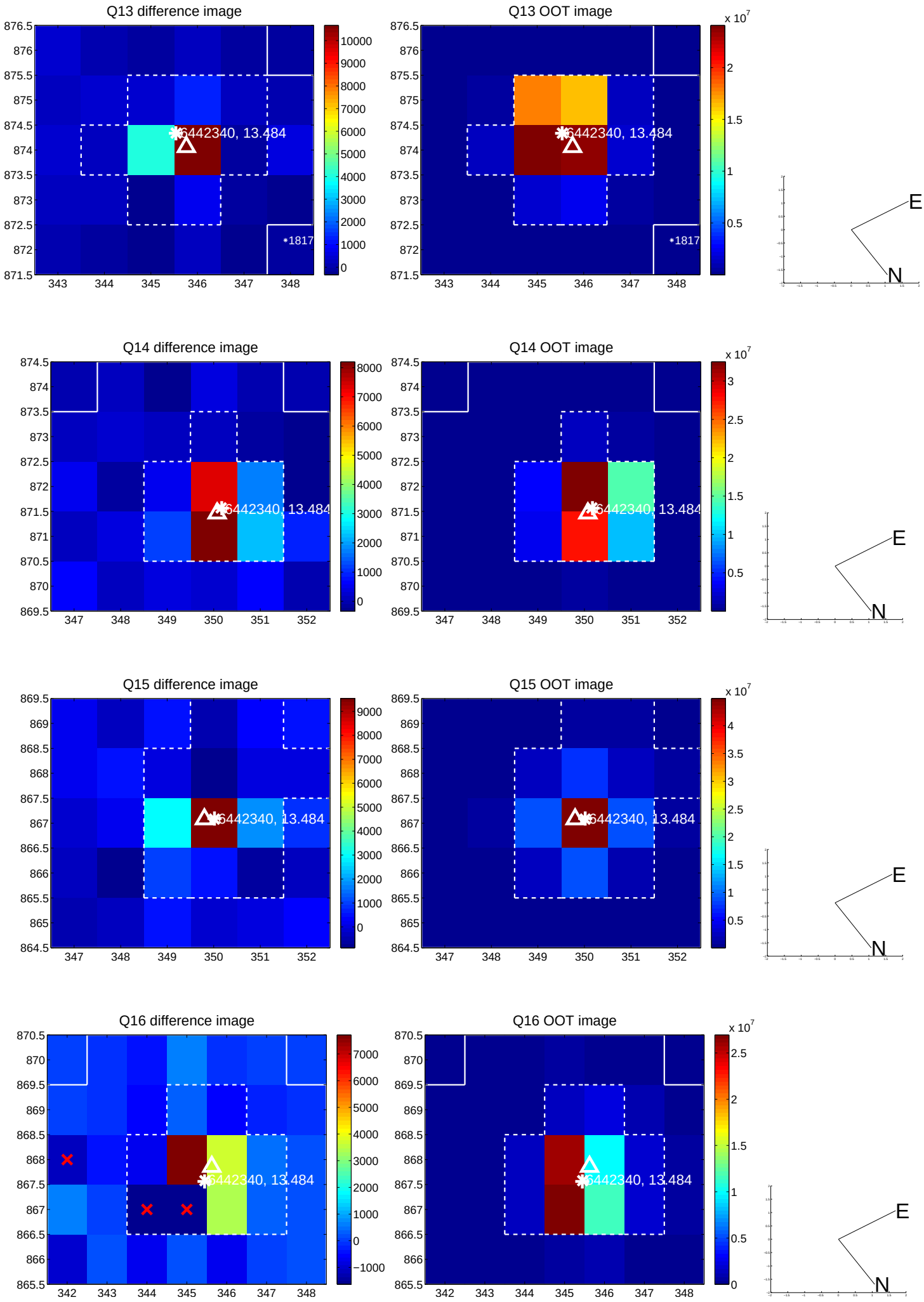
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



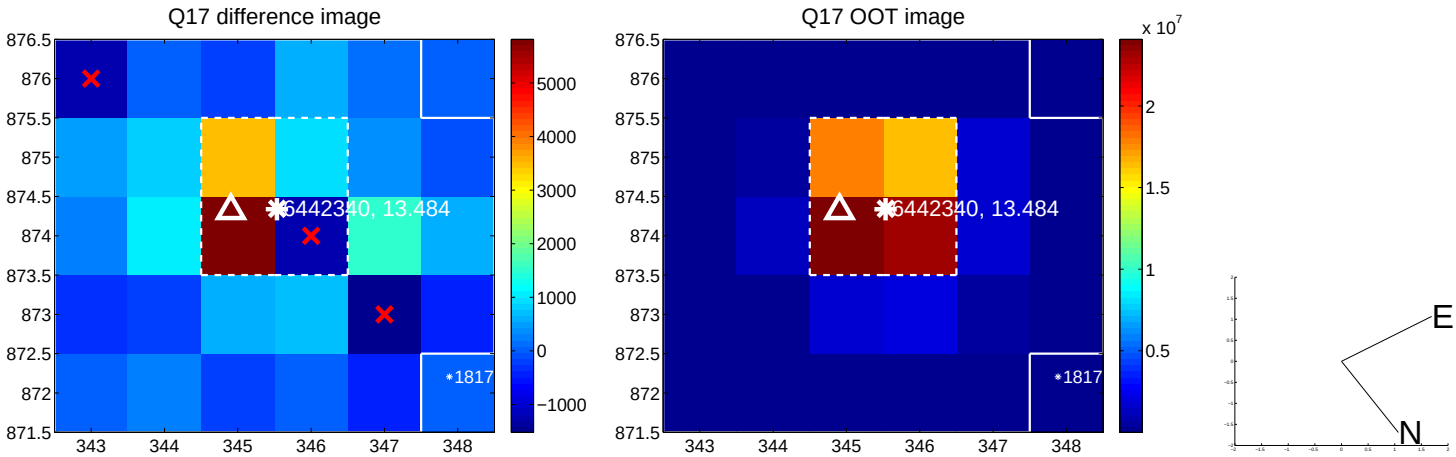
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

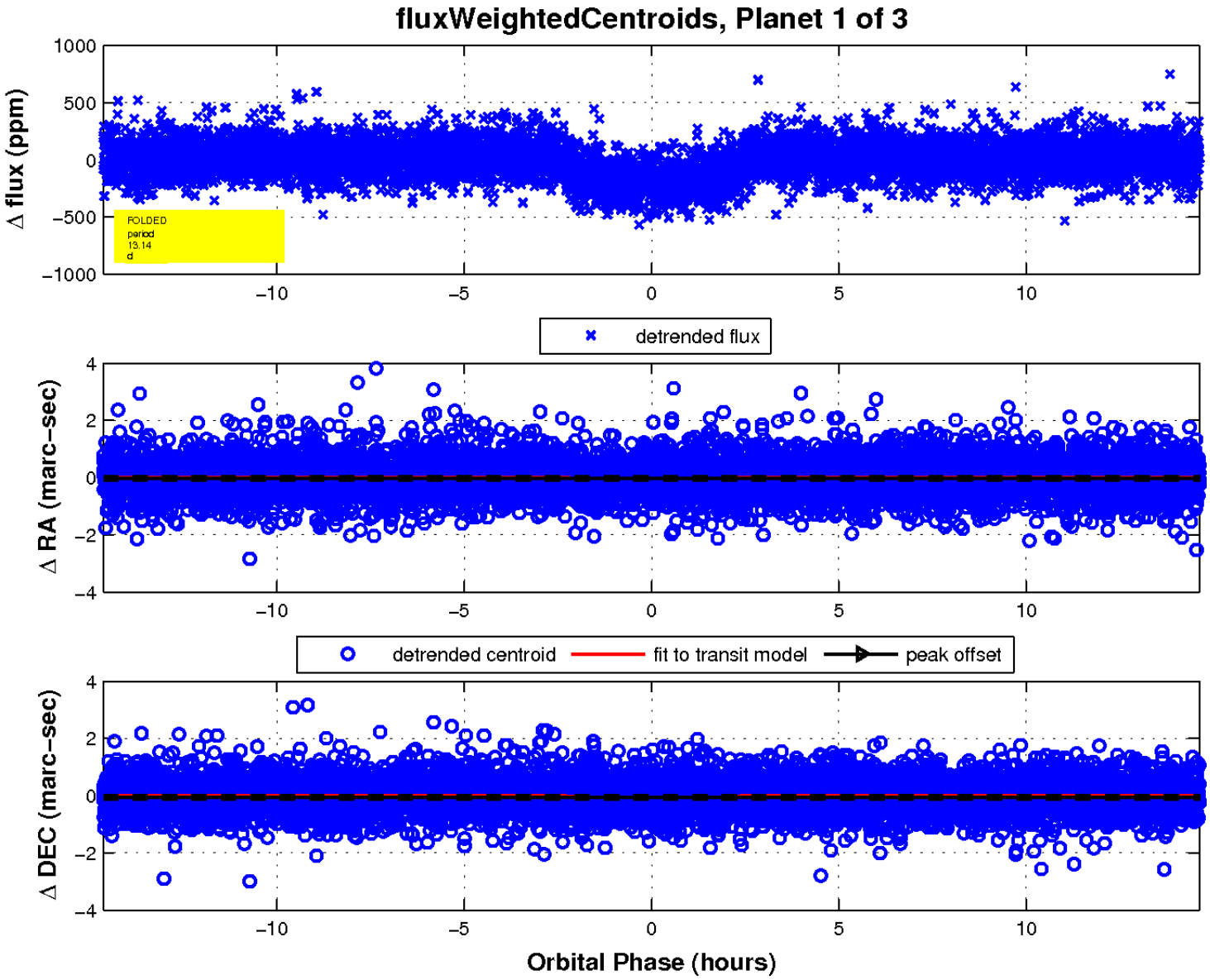


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

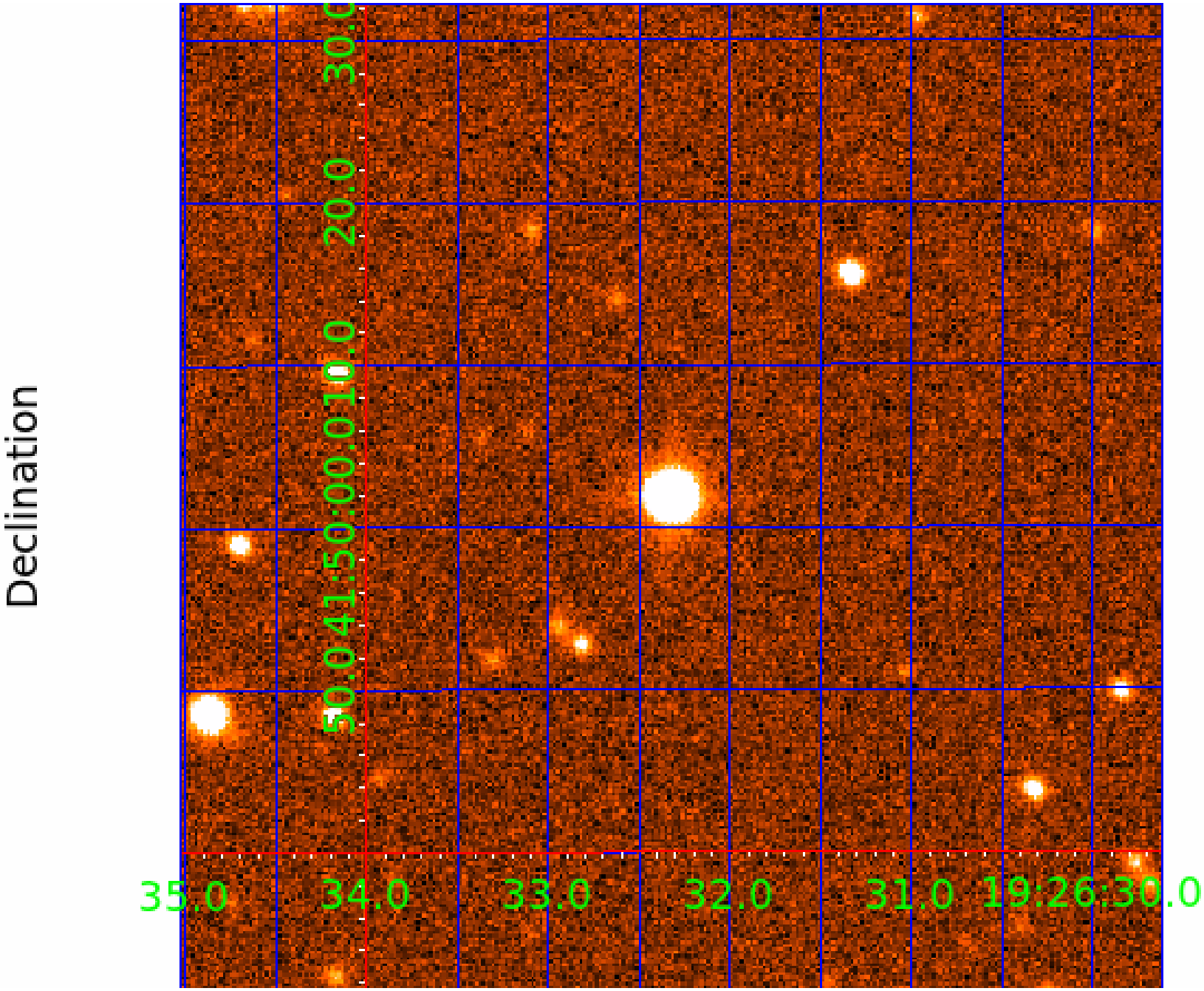


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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KIC 006442340

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 ($S_\oplus$)
006442340-01	OBS	0664.01	13.137488	143.951461	212.9	4.878	35.8	37.7	1.14	5762	1.89	109.95
006442340-02	OBS	0664.02	7.782006	133.589203	104.4	3.997	20.3	22.3	1.14	5762	1.36	221.02
006442340-03	OBS	0664.03	23.443035	152.013706	86.5	6.039	11.1	12.0	1.14	5762	1.38	50.80

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006442340-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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.

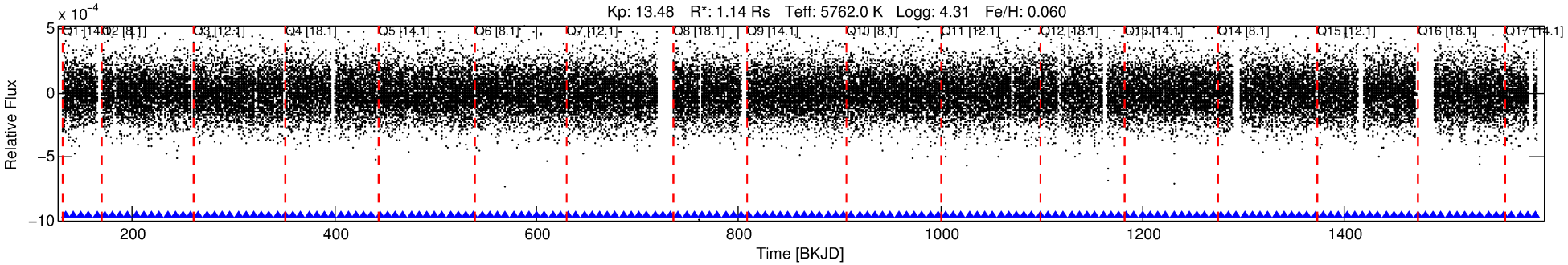
Ephemeris Match Information For 006442340-02

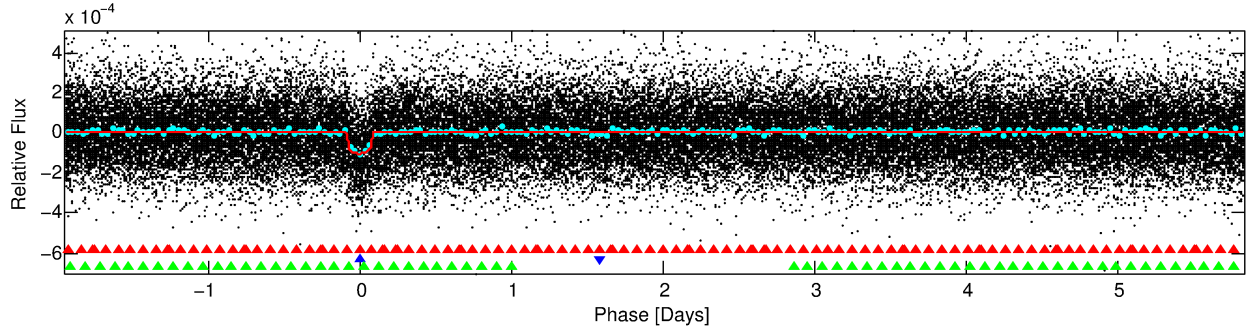
No Significant Match Found

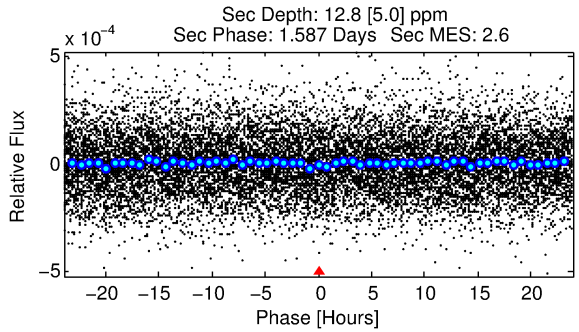
DV One-Page Summary

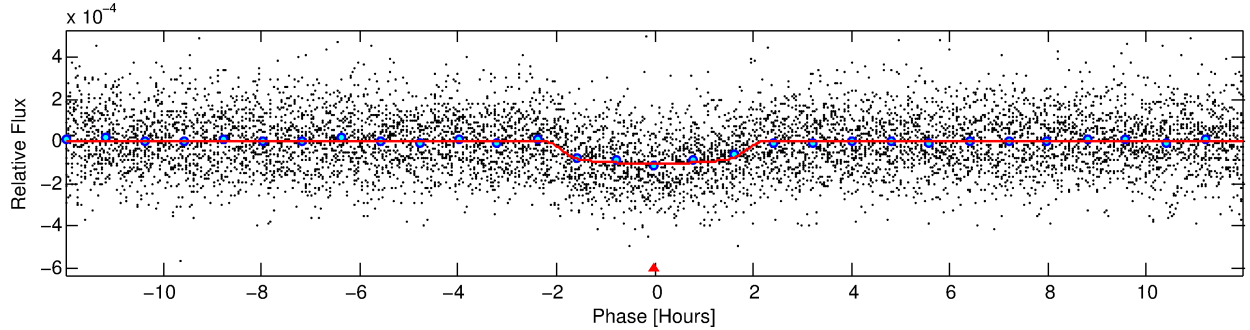
KIC: 6442340 Candidate: 2 of 3 Period: 7.782 d
KOI: K00664.02 Name: Kepler−206b Corr: 0.984

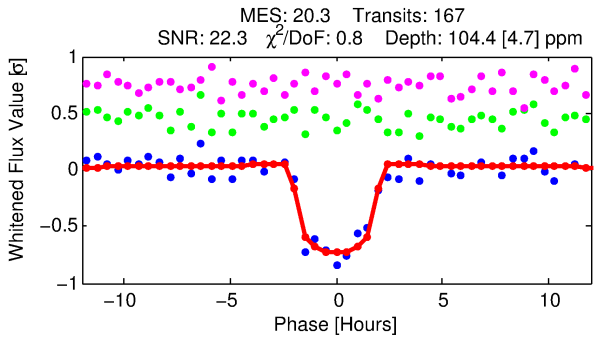
Kp: 13.48 R*: 1.14 Rs Teff: 5762.0 K Logg: 4.31 Fe/H: 0.060

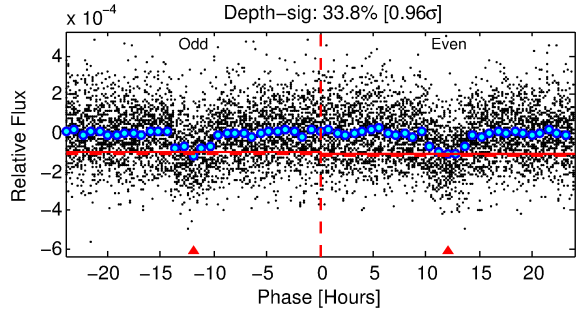


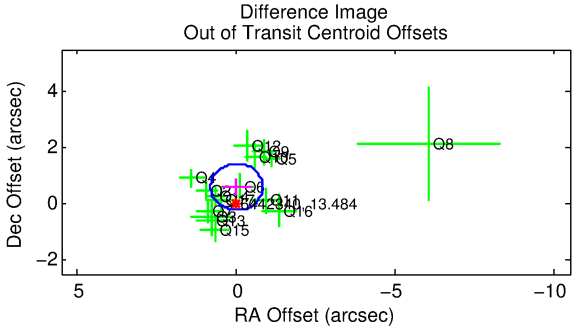












DV Fit Results:

Period = 7.78201 [0.00003] d
Epoch = 133.5892 [0.0033] BKJD
Rp/R* = 0.0109 [0.0030]
a/R* = 7.62 [9.61]
b = 0.87 [0.35]

Seff = 221.02 [53.49]
Teq = 983 [59] K
Rp = 1.36 [0.43] Re
a = 0.0764 [0.0112] AU

Ag = 22.34 [15.87] [1.34σ]
Teffp = 3305 [560] K [4.12σ]

DV Diagnostic Results:

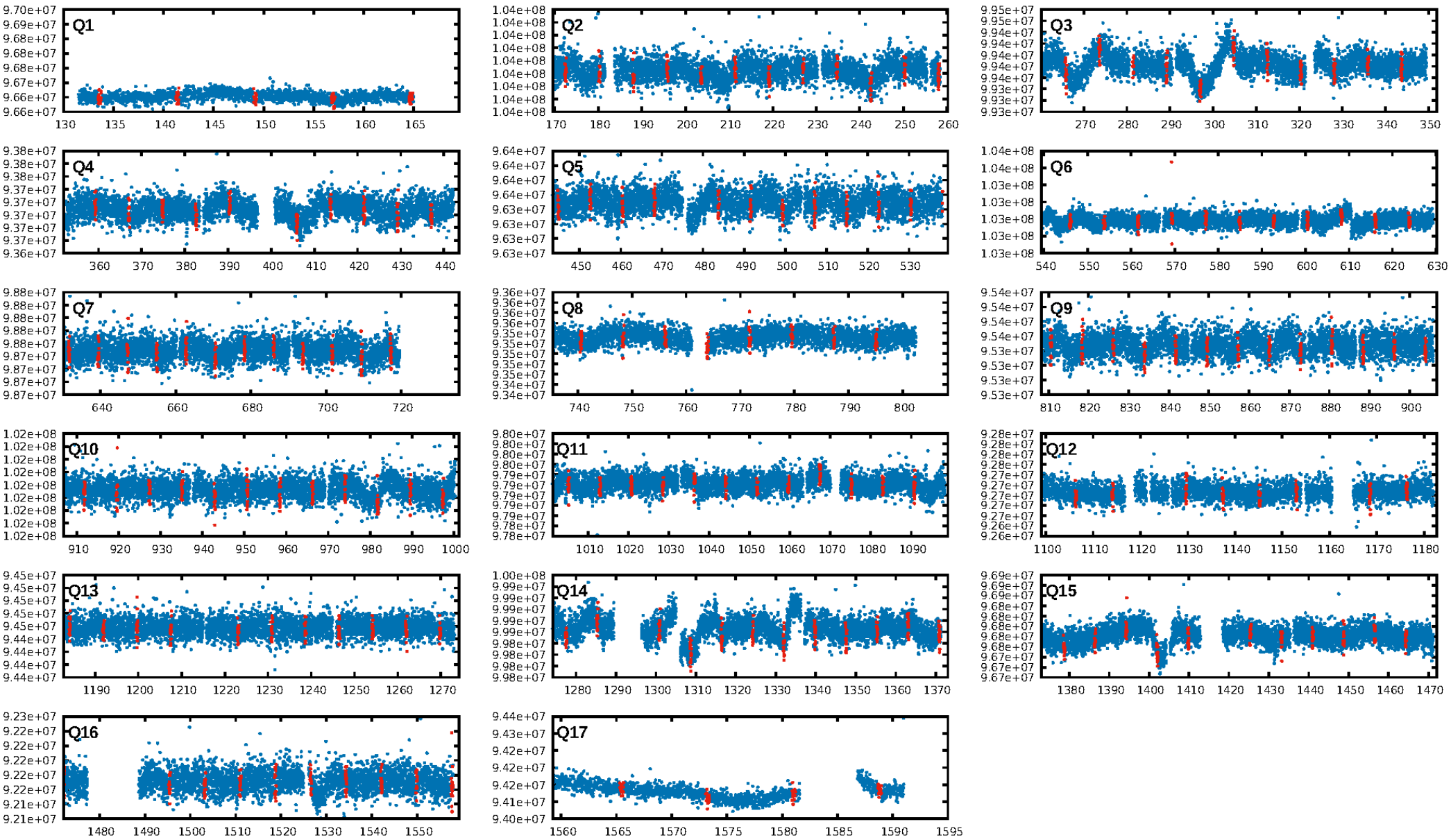
ShortPeriod−sig: N/A
LongPeriod−sig: 100.0% [20.38σ]
ModelChiSquare2−sig: 99.9%
ModelChiSquareGof−sig: 100.0%
Bootstrap−pfa: 4.81e−88
RollingBand−fgt: 1.00 [159/159]
GhostDiagnostic−chr: 35.26

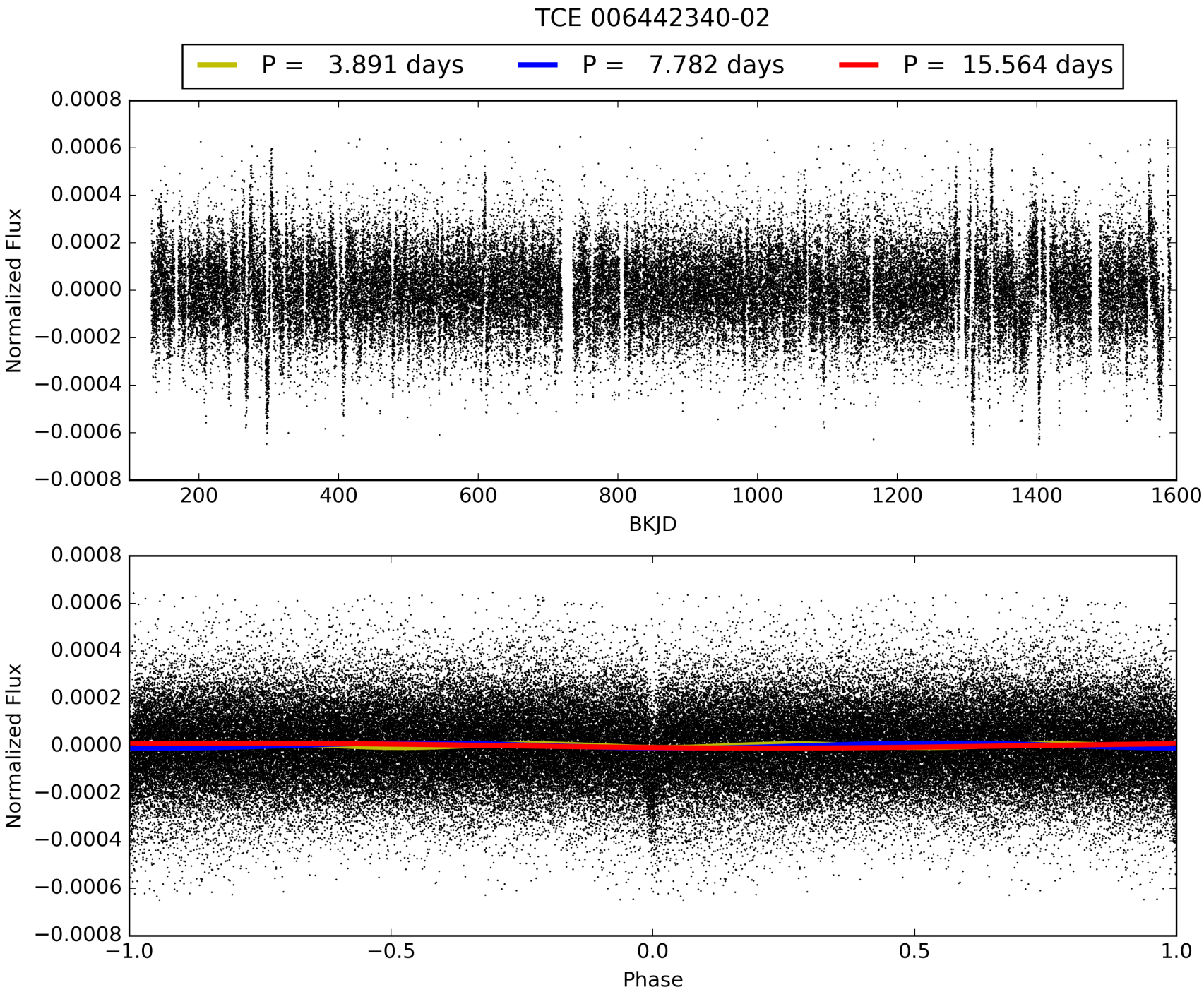
Centroid−sig: 58.5%
Centroid−so: 0.335 arcsec [0.63σ]
OotOffset−rm: 0.598 arcsec [2.18σ]
KicOffset−rm: 0.600 arcsec [2.09σ]
OotOffset−st: 4/4/4/4 [16]
KicOffset−st: 4/4/4/4 [16]
DiffImageQuality−fgm: 0.94 [15/16]
DiffImageOverlap−fno: 0.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 29−Jan−2016 12:19:18 Z

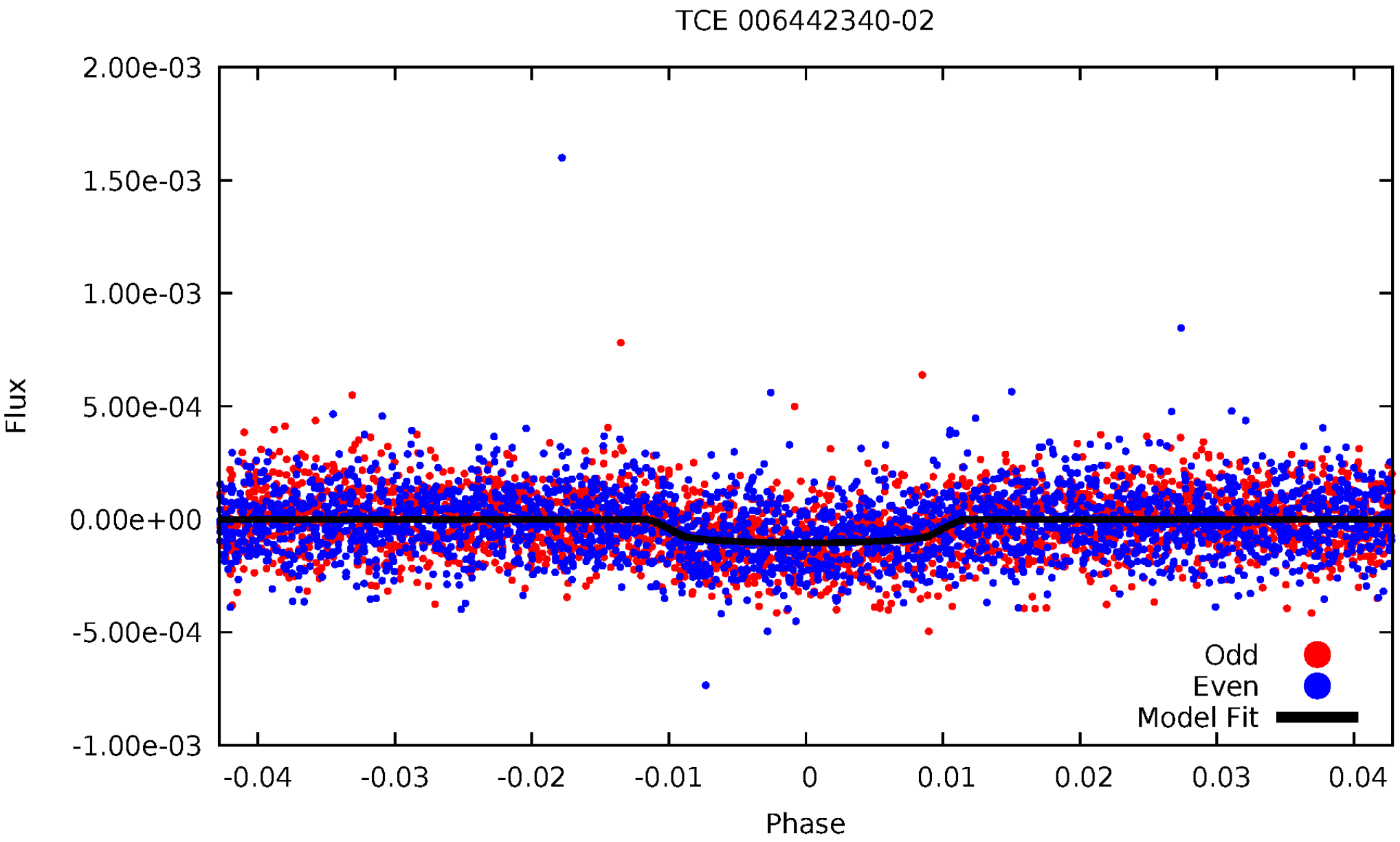
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006442340-02, PDC Light Curves

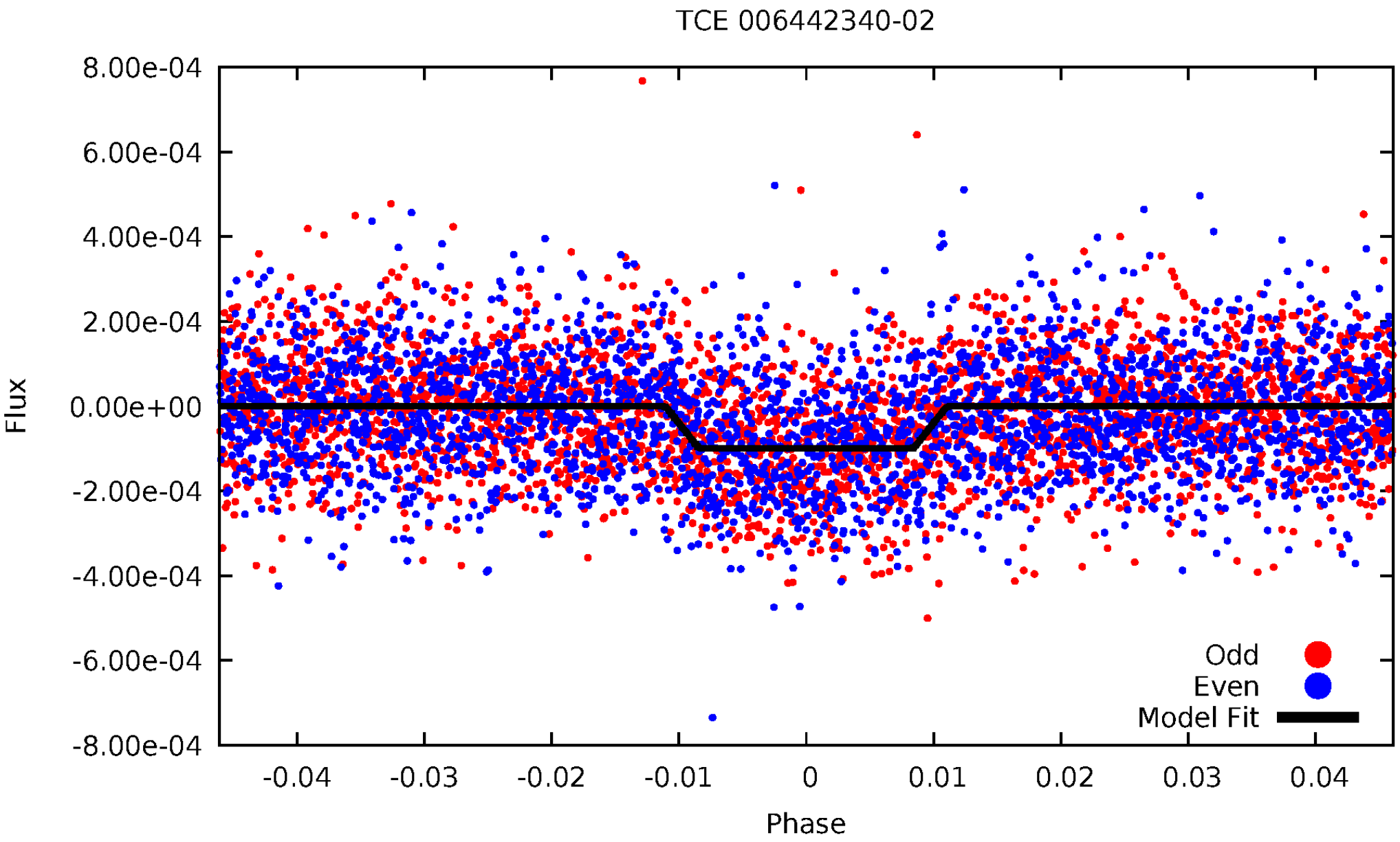



TCE 006442340-02
P = 3.891 days
P = 7.782 days
P = 15.564 days
Normalized Flux
BKJD
Normalized Flux
Phase

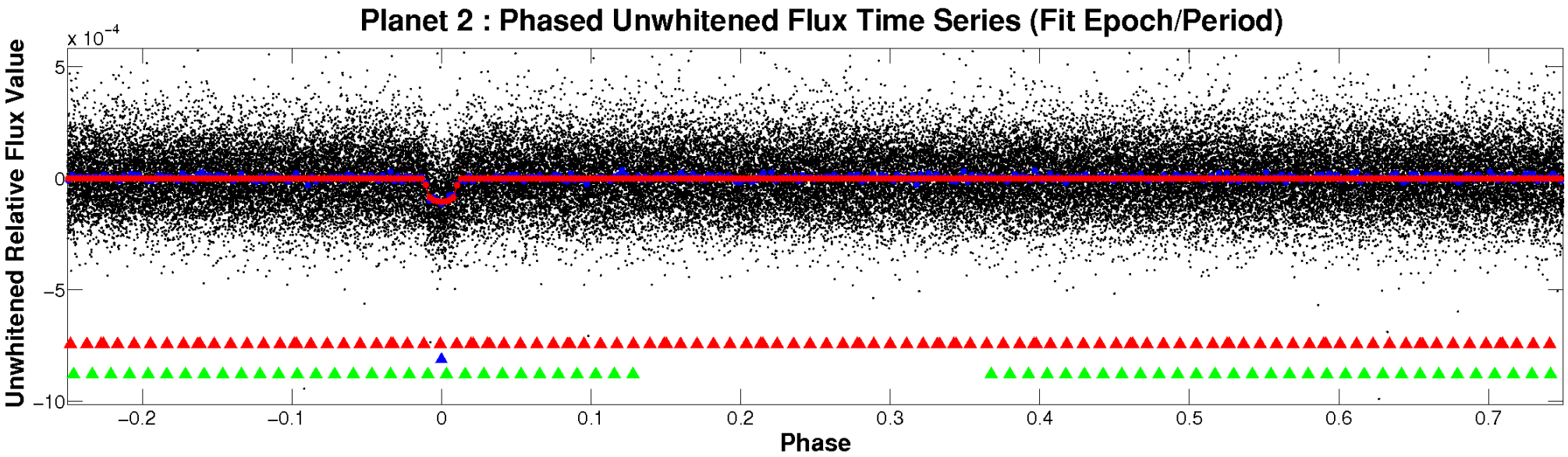
DV Odd/Even

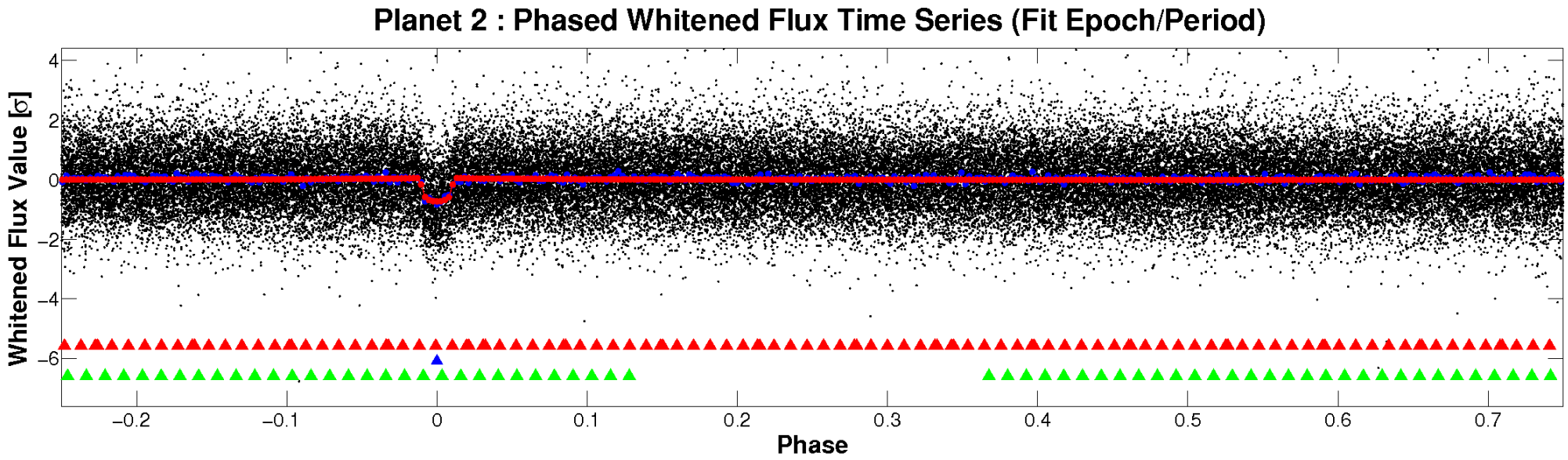

TCE 006442340-02
2.00e-03
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
Flux
-0.04
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
0.04
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006442340-02
8.00e-04
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
-8.00e-04
Flux
-0.04
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
0.04
Phase
Odd
Even
Model Fit

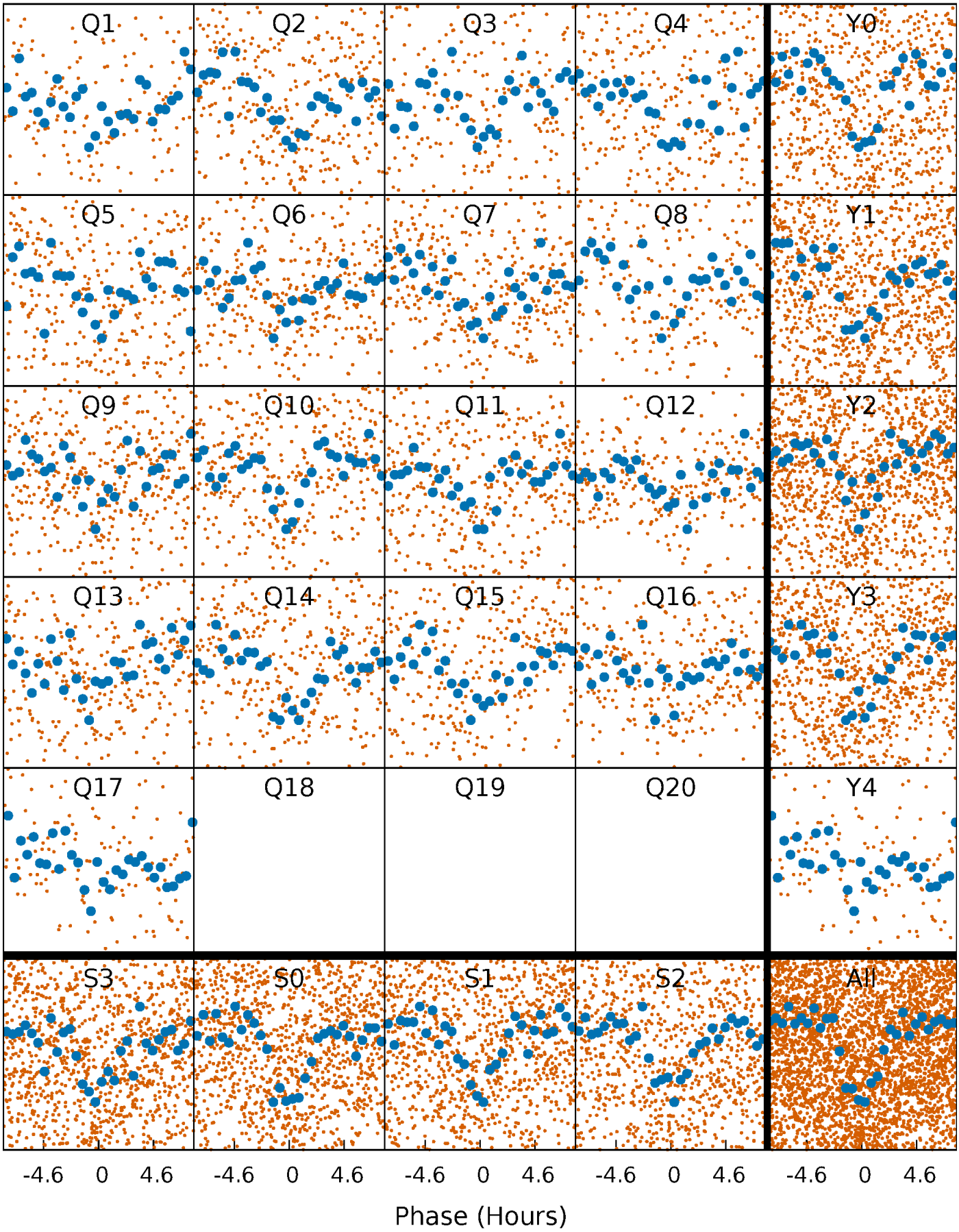
Non-Whitened Vs. Whitened Light Curve





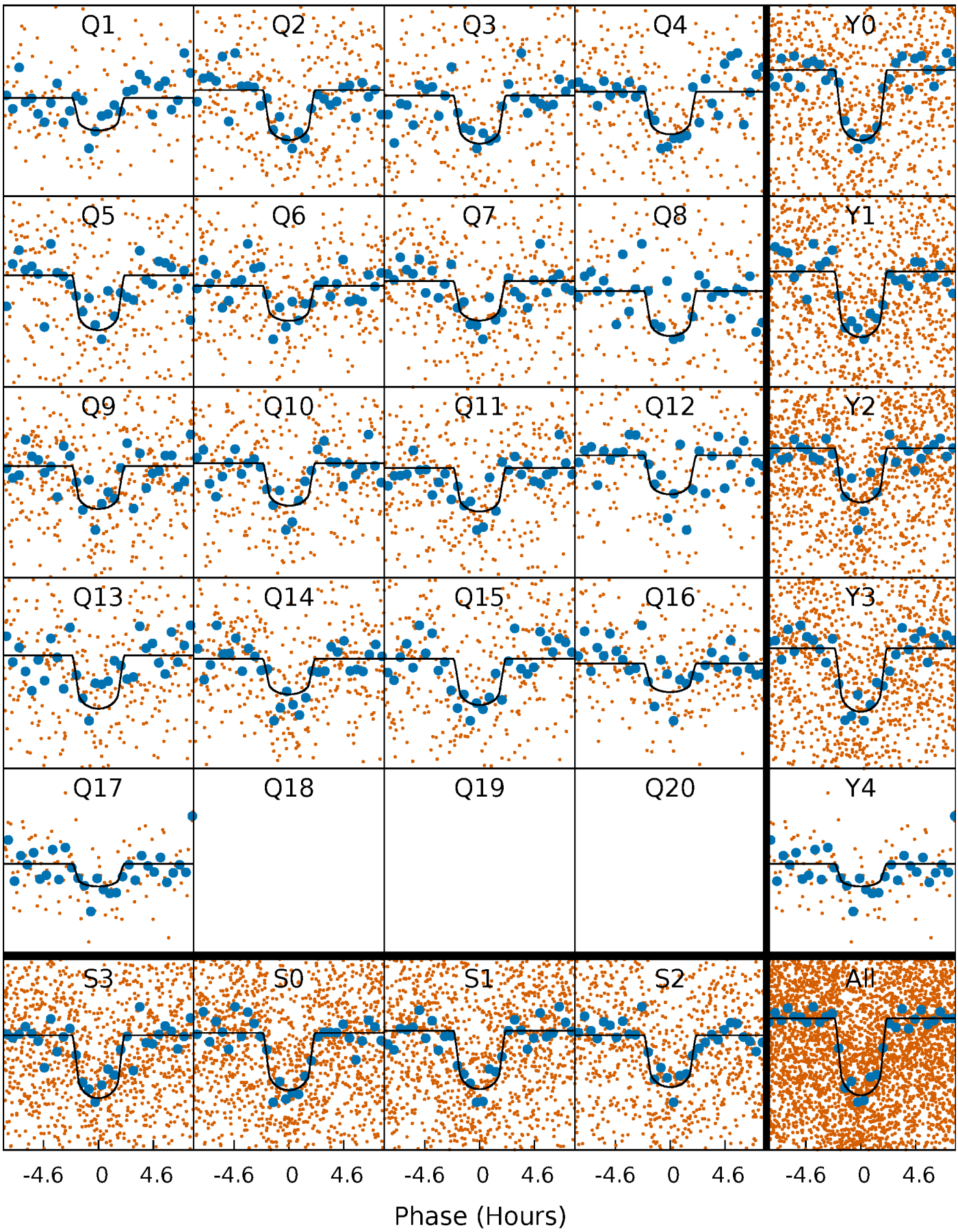
PDC Quarter-Phased Transit Curves

TCE 006442340-02 P= 7.782006 Days T_0=133.589203 (BKJD)



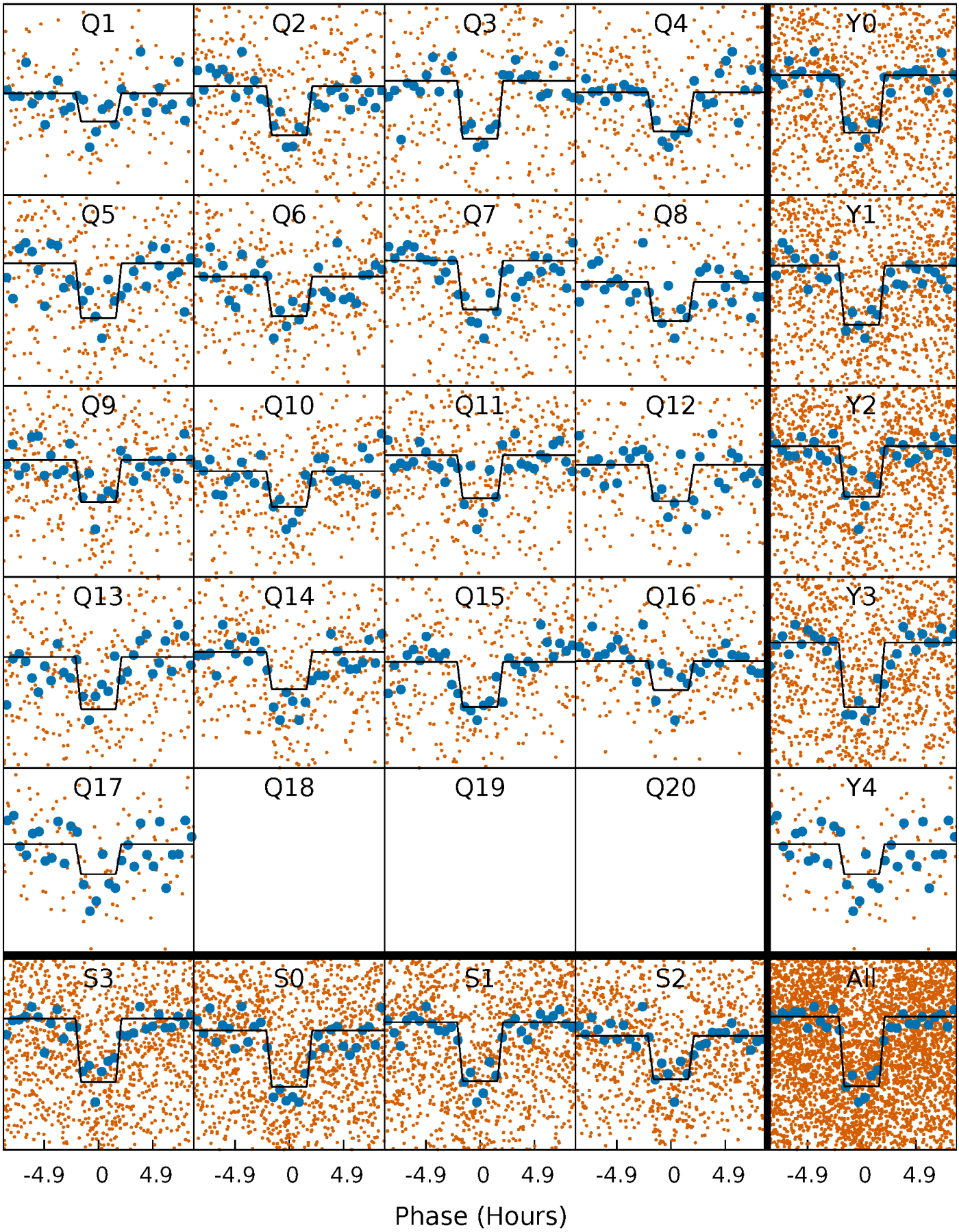
DV Quarter-Phased Transit Curves

TCE 006442340-02 P= 7.782006 Days T_0=133.589203 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

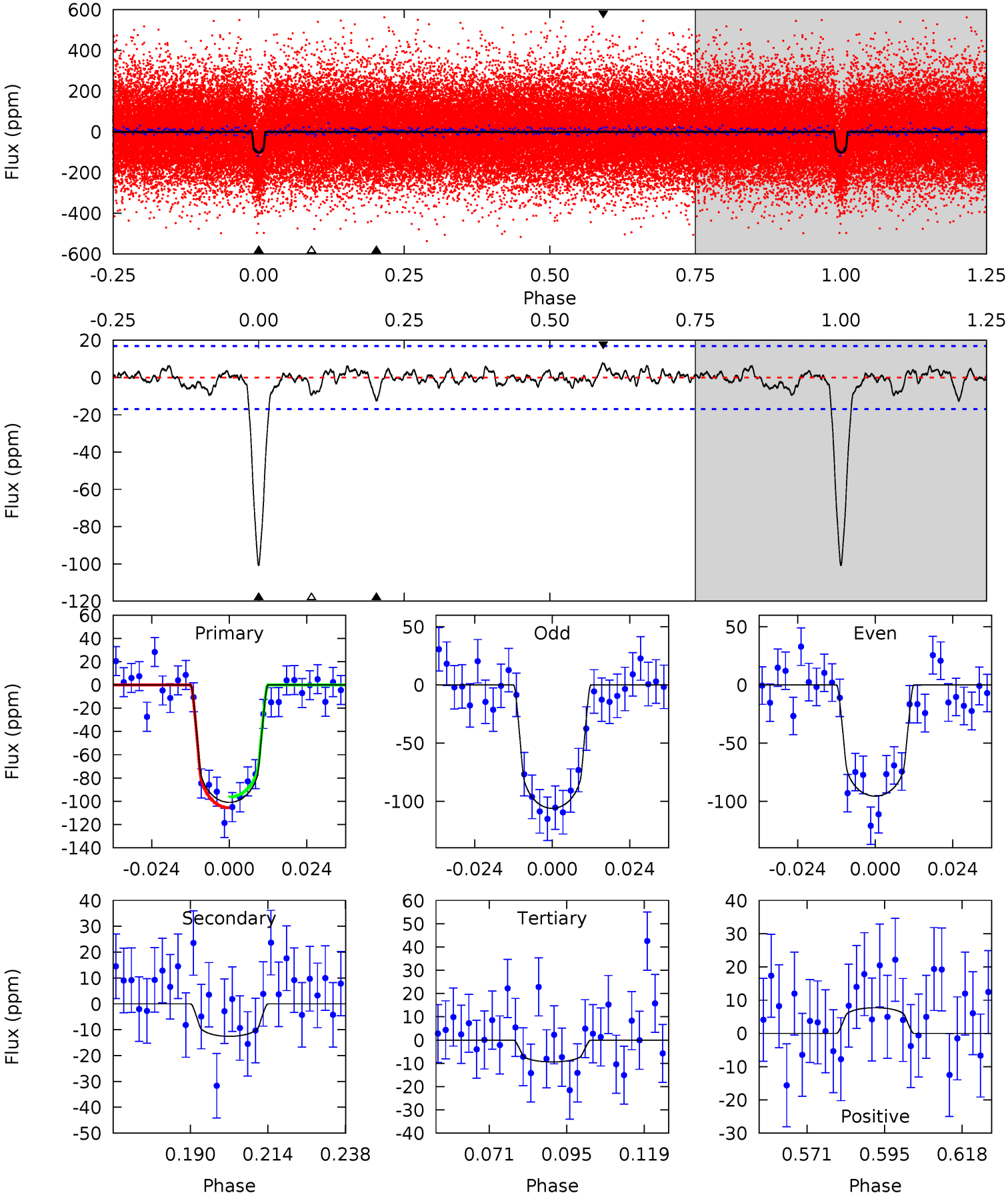
TCE 006442340-02 P= 7.781963 Days T_0=133.592062 (BKJD)



DV Model-Shift Uniqueness Test

006442340-02, P = 7.782006 Days, E = 125.807197 Days

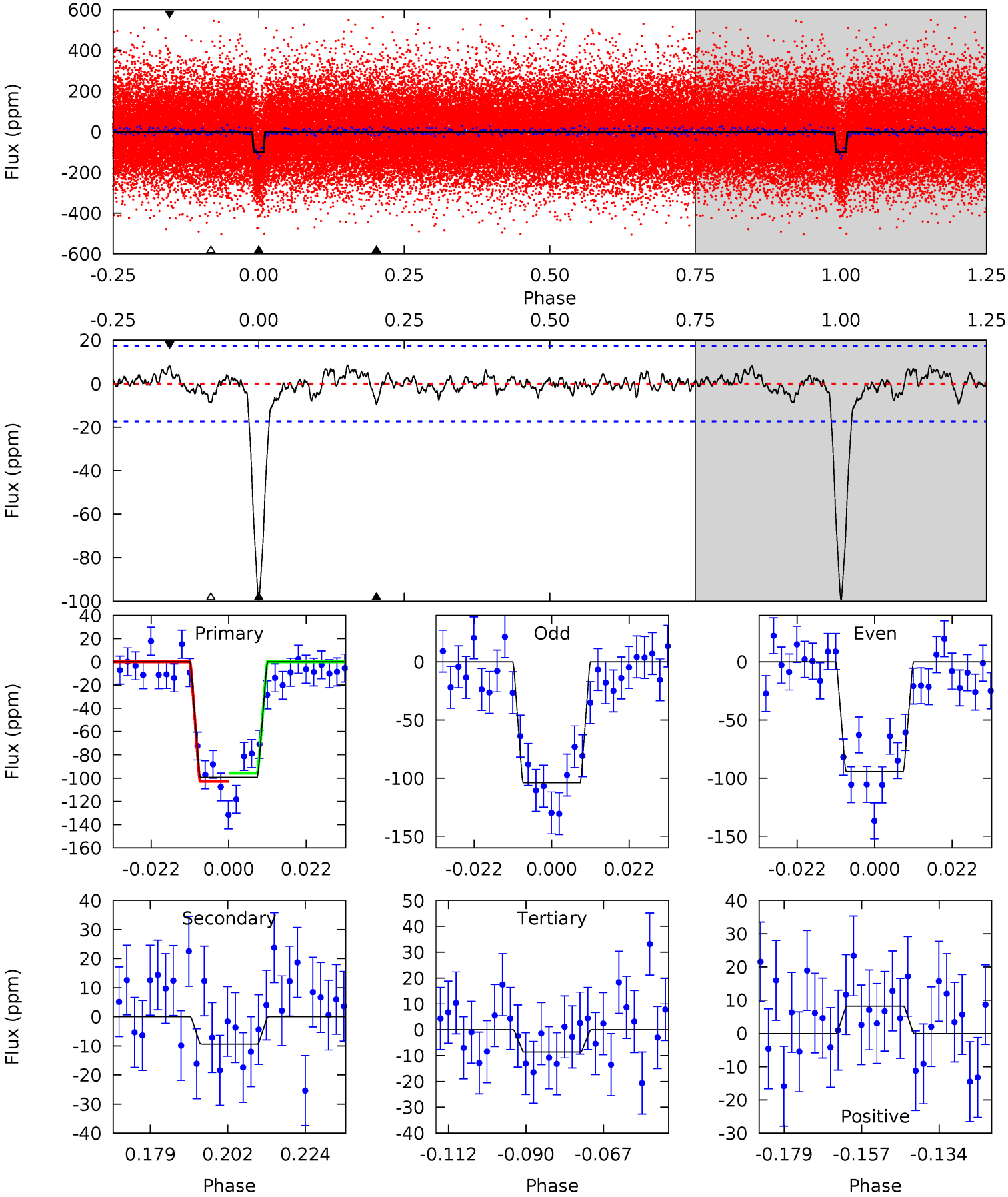
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.0	3.62	2.70	2.22	4.86	2.26	0.86	26.3	26.8	0.91	1.39	1.51	1.01	0.07	1.35



Alt Model-Shift Uniqueness Test

006442340-02, P = 7.781963 Days, E = 125.810099 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.8	2.62	2.41	2.29	4.87	2.28	0.87	25.4	25.5	0.21	0.33	1.35	0.98	0.08	1.00



Stellar Parameters For KIC 006442340

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5762^{+104}_{-115}	$4.314^{+0.132}_{-0.108}$	$0.060^{+0.150}_{-0.150}$	$1.143^{+0.181}_{-0.164}$	$0.982^{+0.079}_{-0.065}$	$0.927^{+0.553}_{-0.294}$
	+2%/-2%	+3%/-3%	+250%/-250%	+16%/-14%	+8%/-7%	+60%/-32%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006442340-02 / KOI 0664.02

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-13±3	$1.32^{+0.42}_{-0.39}$	1368^{+62}_{-68}	3702^{+460}_{-349}	23^{+24}_{-11}
Alt.	-9±4	$1.23^{+0.42}_{-0.37}$	1370^{+57}_{-60}	3605^{+565}_{-394}	19^{+24}_{-10}

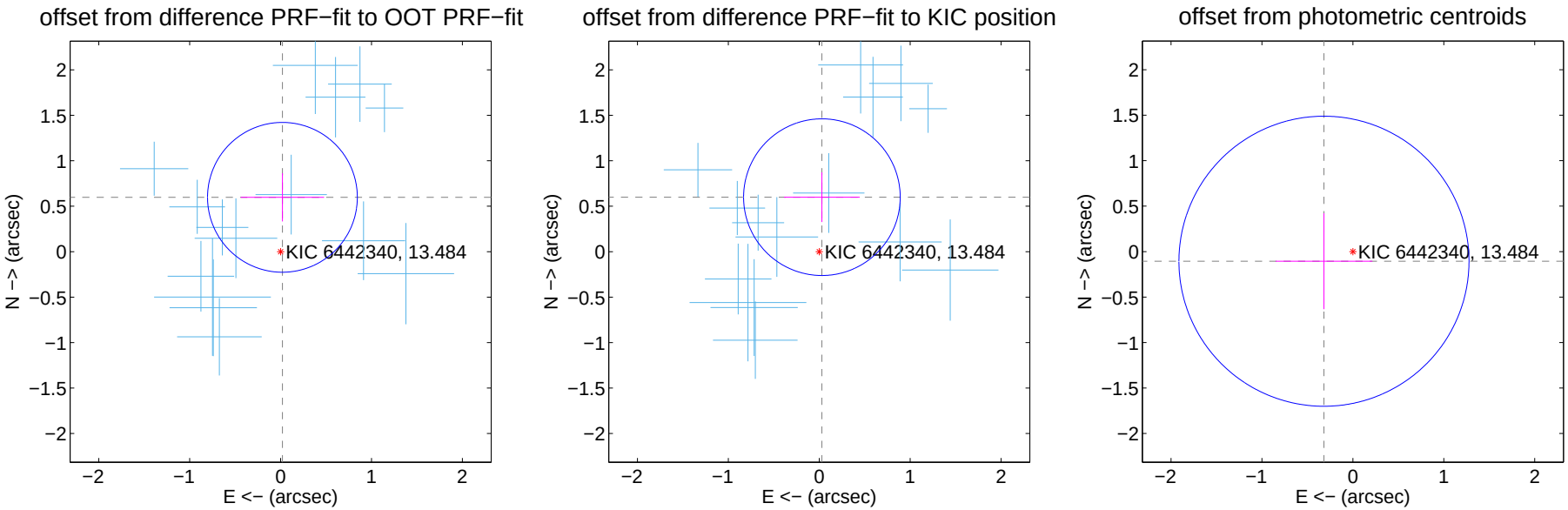
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

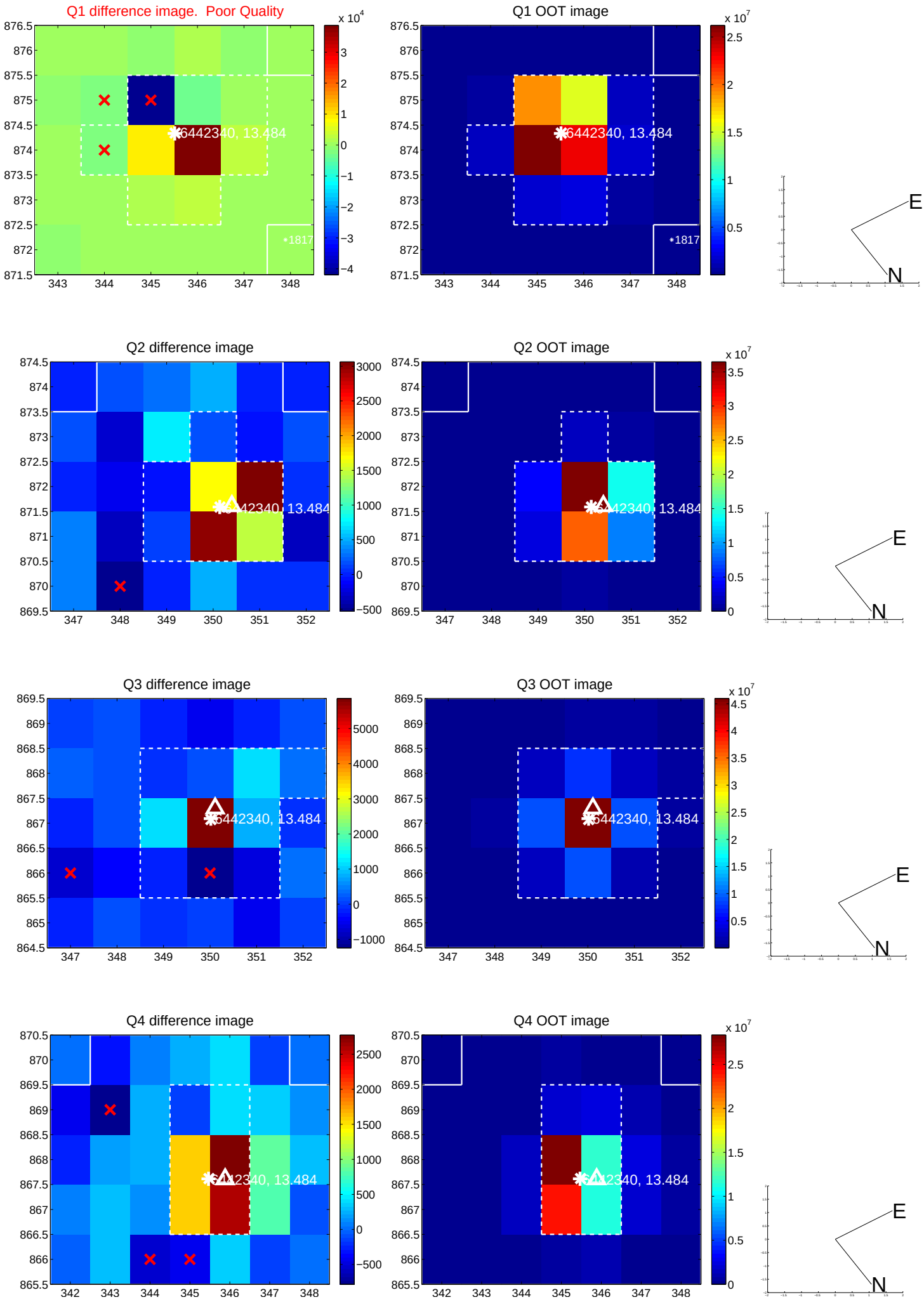
Supplemental centroid analysis for 006442340-02. Kepler magnitude: 13.48. Transit SNR 22.33
There are 15 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.598 ± 0.275	2.18	-0.020 ± 0.458	0.598 ± 0.265
PRF-fit source offset from KIC position	0.600 ± 0.287	2.09	-0.029 ± 0.417	0.600 ± 0.274
photometric centroid source offset	0.34 ± 0.53	0.63	0.32 ± 0.53	-0.11 ± 0.53

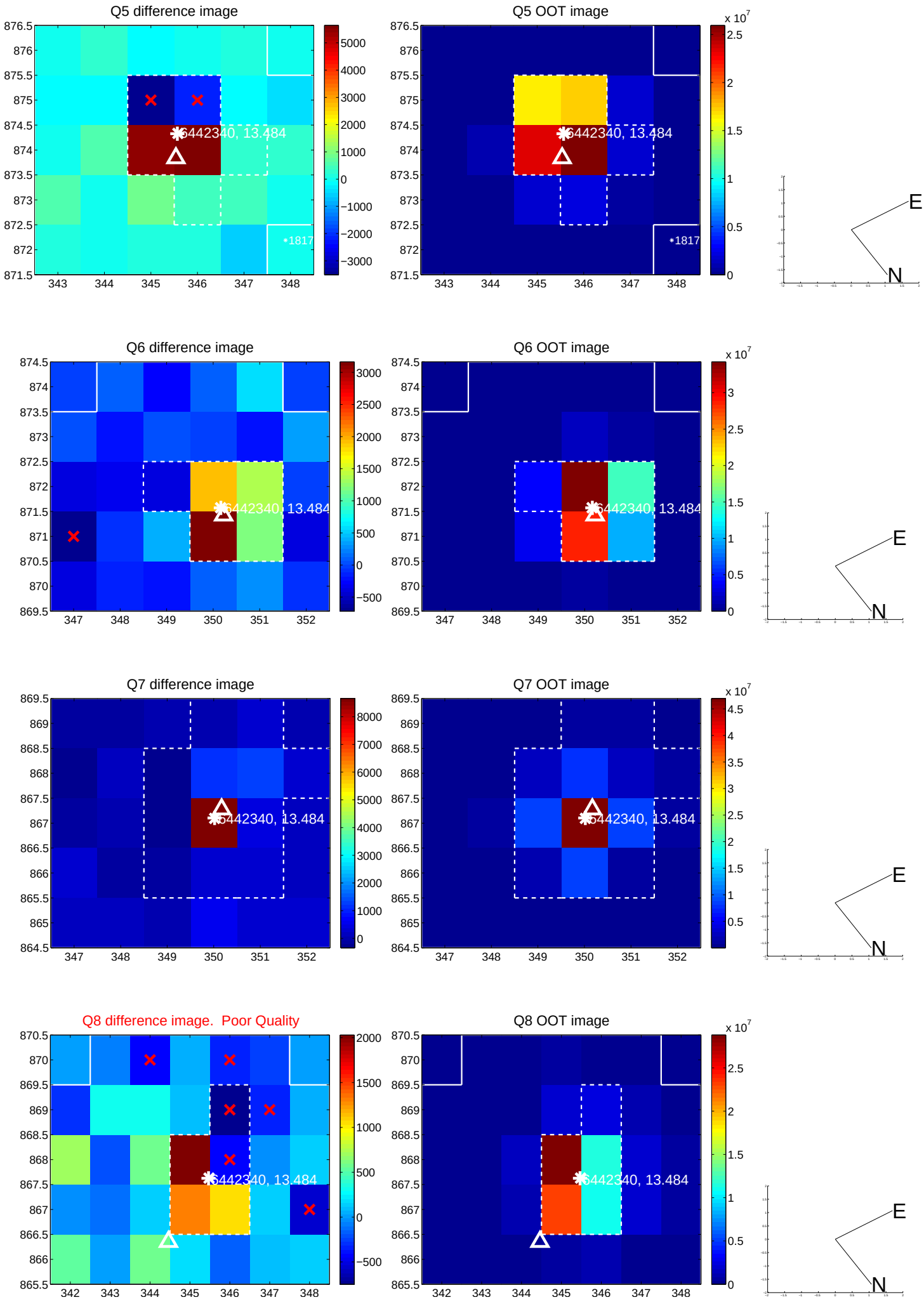


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

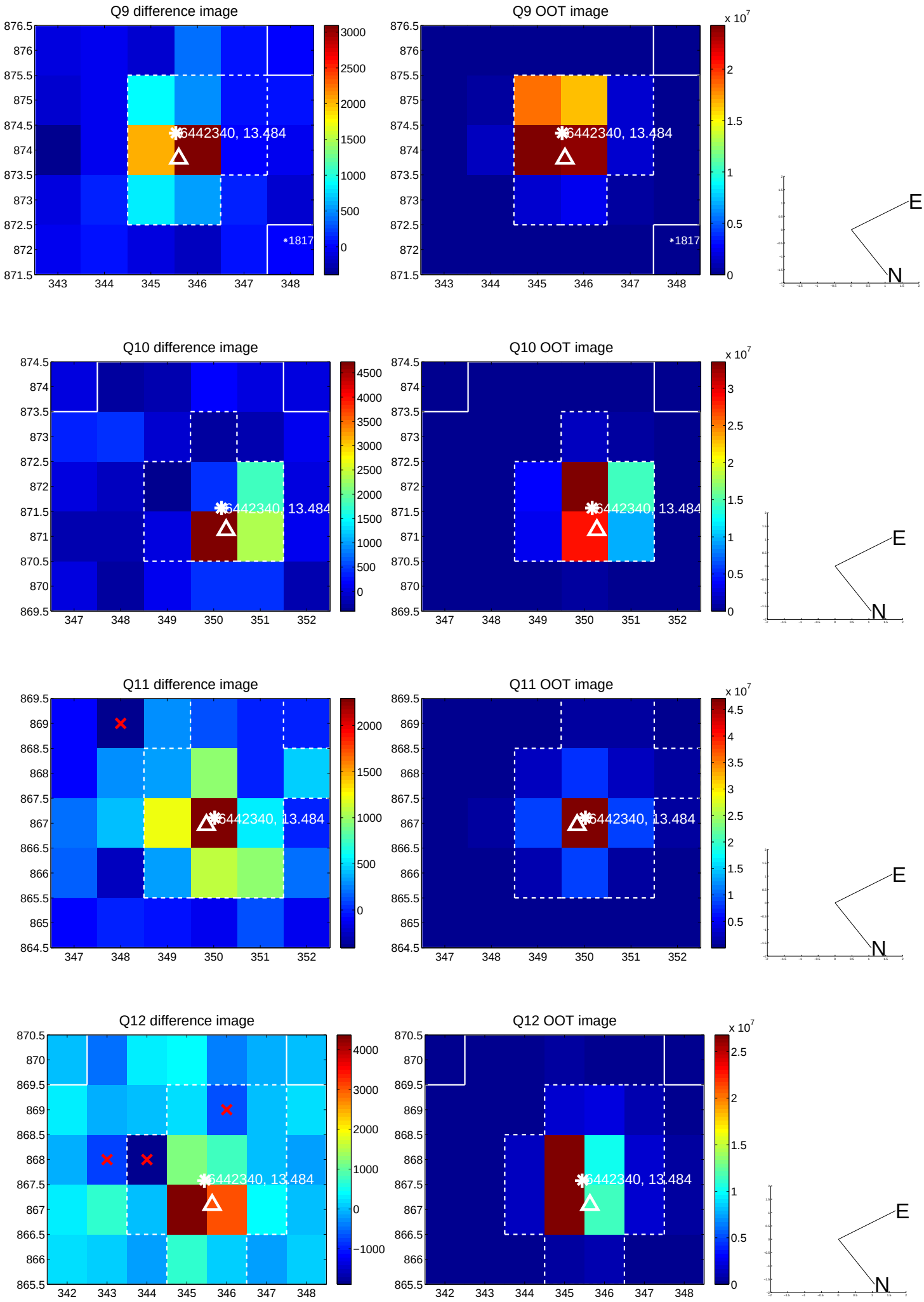
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



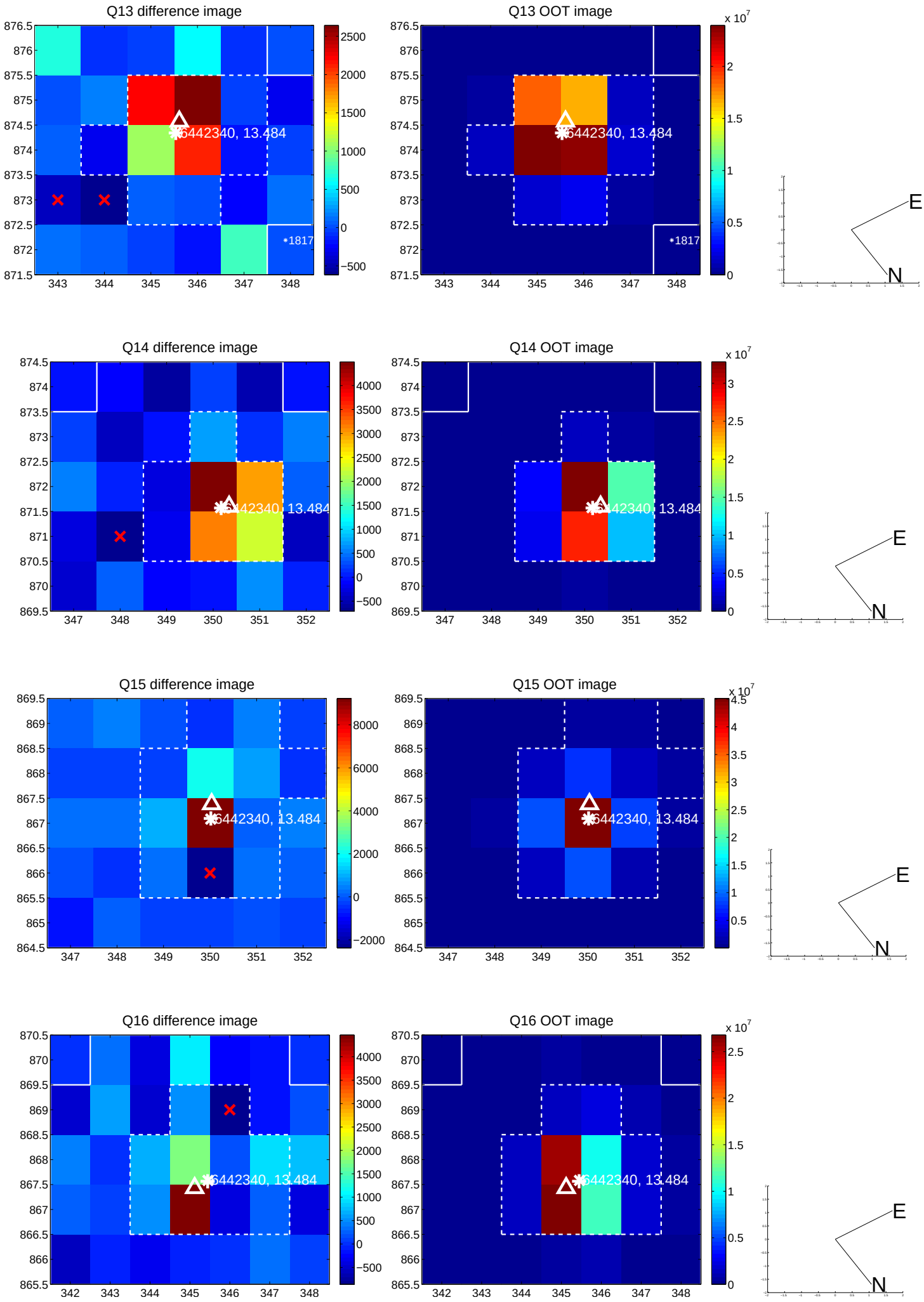
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



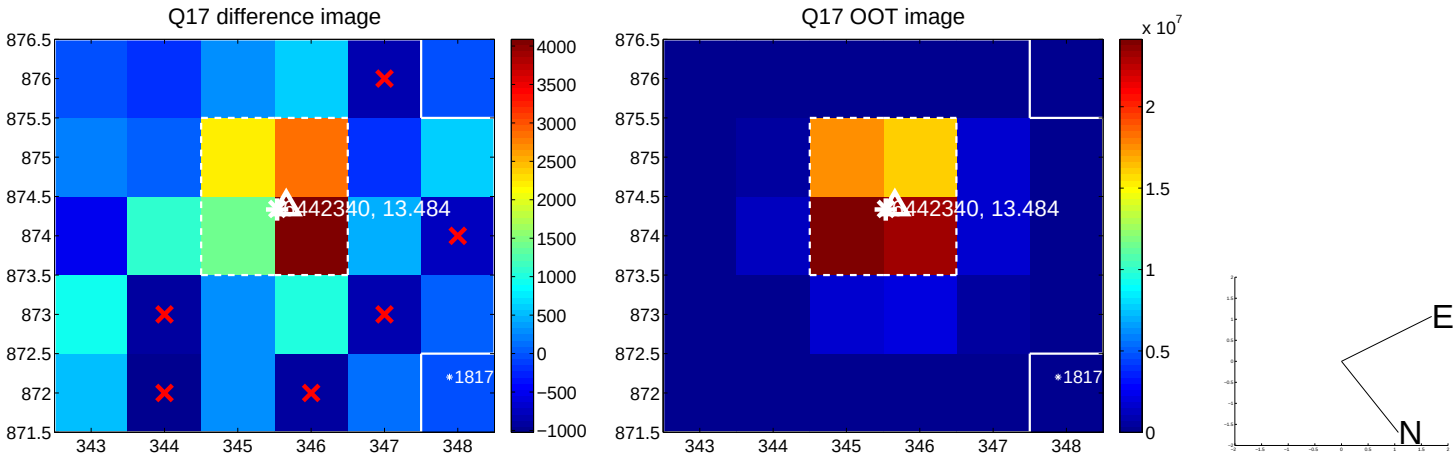
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

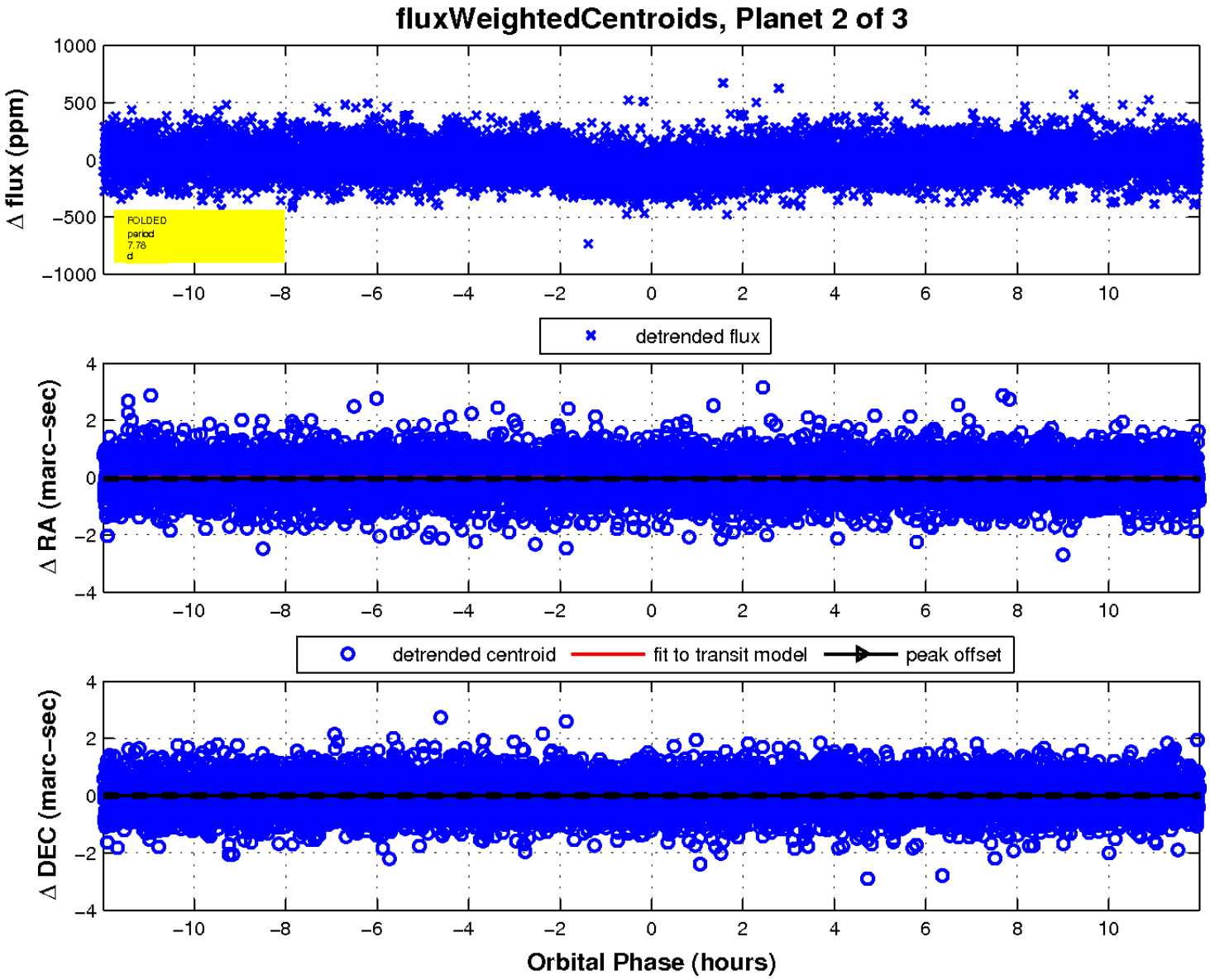


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

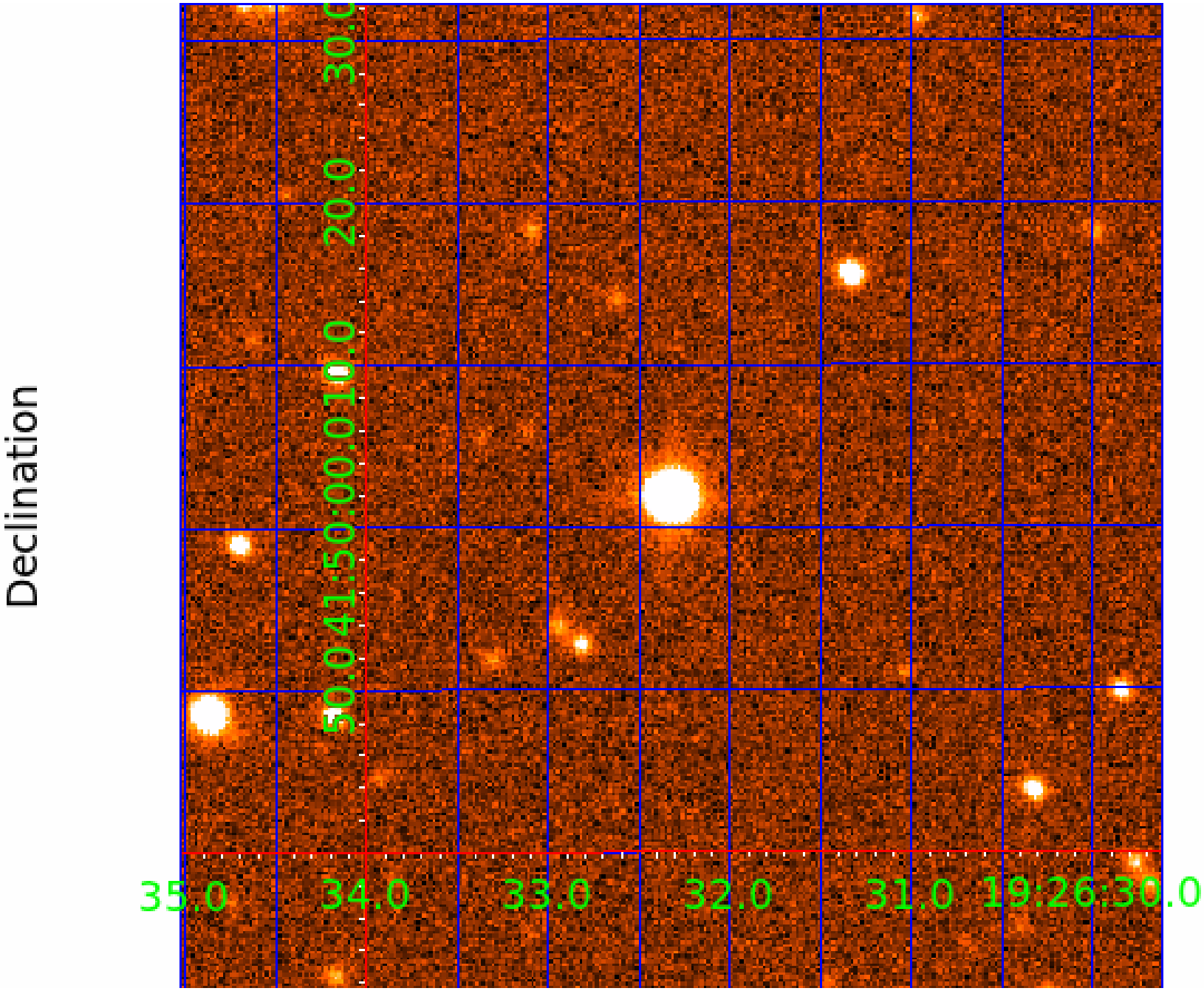


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image


Declination
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00.0
10.0
20.0
30.0
35.0
34.0
33.0
32.0
31.0
19:26:30.0

KIC 006442340

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 ($S_\oplus$)
006442340-01	OBS	0664.01	13.137488	143.951461	212.9	4.878	35.8	37.7	1.14	5762	1.89	109.95
006442340-02	OBS	0664.02	7.782006	133.589203	104.4	3.997	20.3	22.3	1.14	5762	1.36	221.02
006442340-03	OBS	0664.03	23.443035	152.013706	86.5	6.039	11.1	12.0	1.14	5762	1.38	50.80

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006442340-01	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-02	OBS	PC	1.00	0	0	0	0	NO_COMMENT
006442340-03	OBS	PC	1.00	0	0	0	0	NO_COMMENT

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.

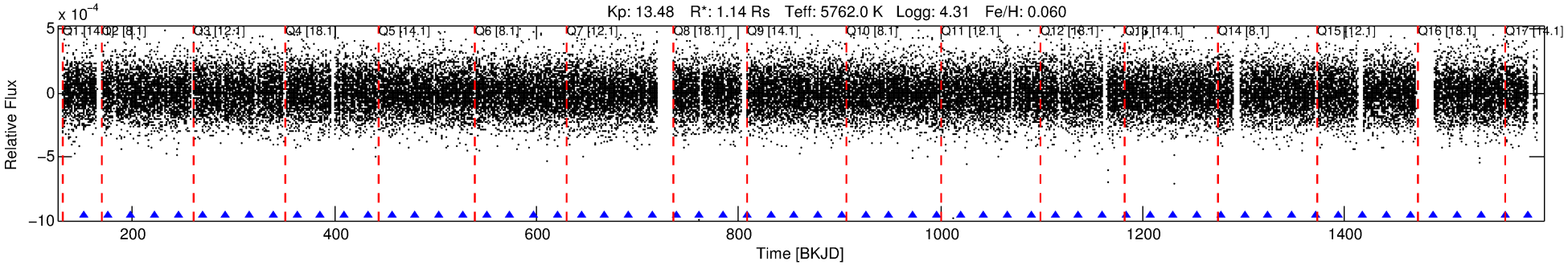
Ephemeris Match Information For 006442340-03

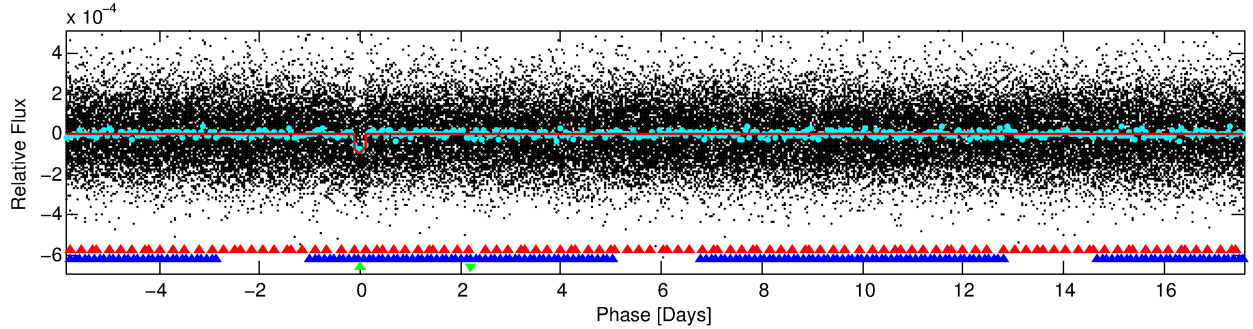
No Significant Match Found

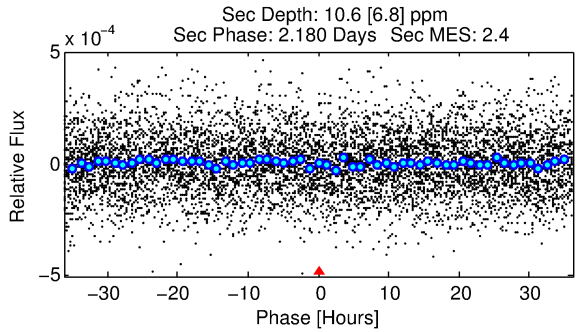
DV One-Page Summary

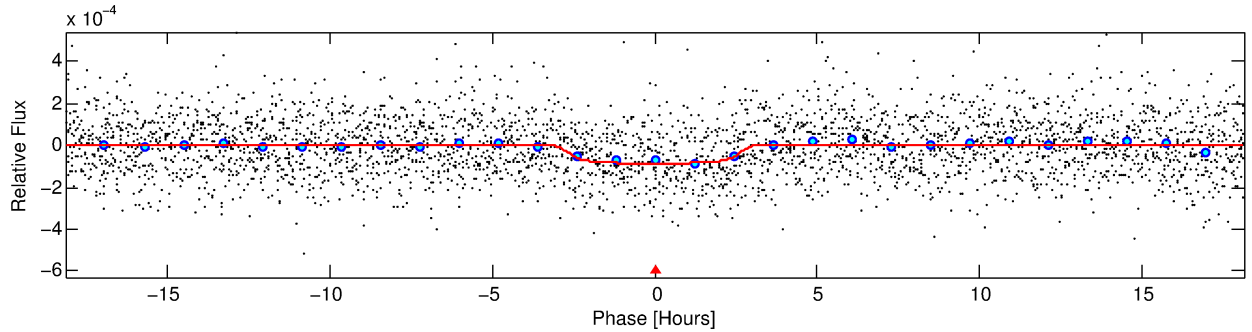
KIC: 6442340 Candidate: 3 of 3 Period: 23.443 d
KOI: K00664.03 Name: Kepler−206d Corr: 0.955

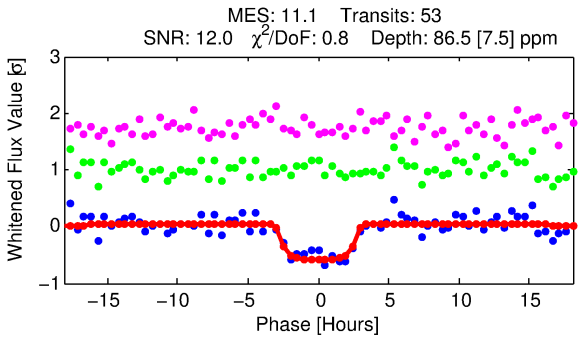
Kp: 13.48 R*: 1.14 Rs Teff: 5762.0 K Logg: 4.31 Fe/H: 0.060

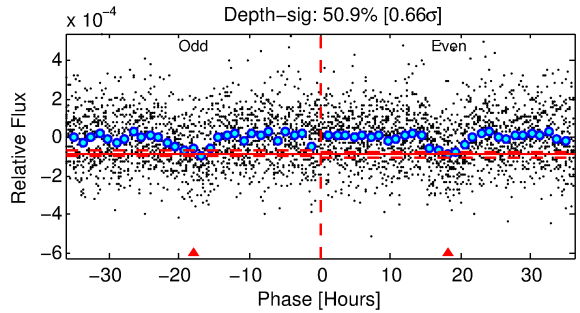


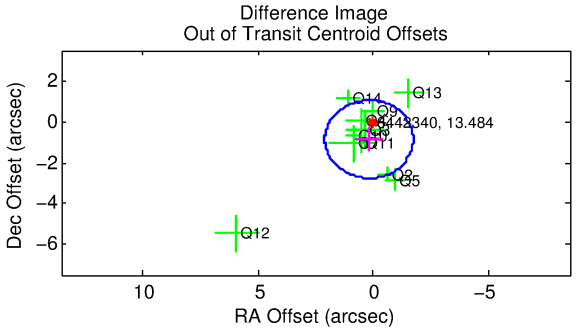












DV Fit Results:

Period = 23.44304 [0.00031] d
Epoch = 152.0137 [0.0096] BKJD
Rp/R* = 0.0110 [0.0012]
a/R* = 9.50 [4.82]
b = 0.96 [0.04]

Seff = 50.80 [12.29]
Teq = 681 [41] K
Rp = 1.38 [0.27] Re
a = 0.1594 [0.0233] AU

Ag = 78.36 [55.92] [1.38σ]
Teffp = 3132 [533] K [4.58σ]

DV Diagnostic Results:

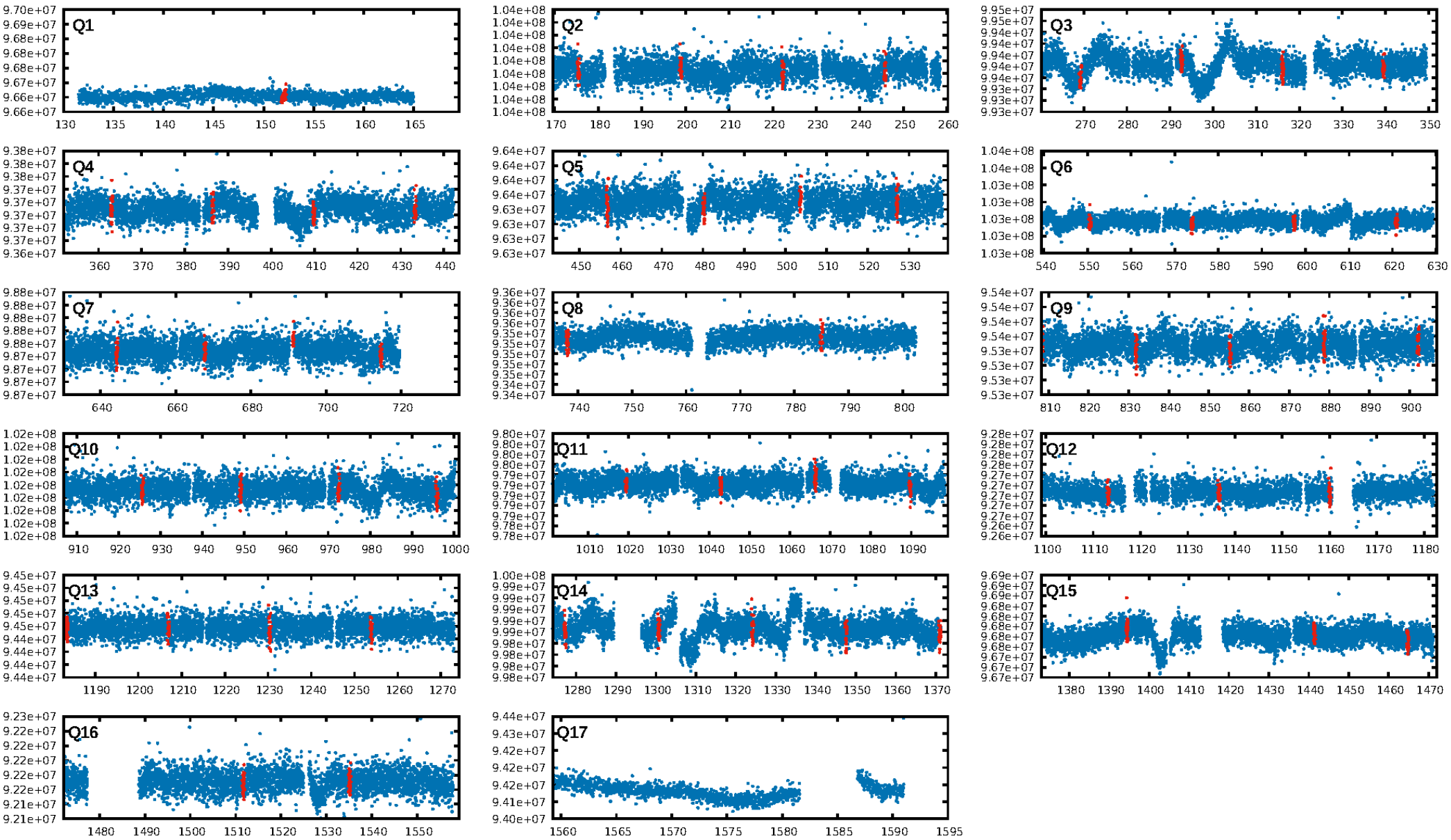
ShortPeriod−sig: 100.0% [31.86σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: 99.9%
ModelChiSquareGof−sig: 100.0%
Bootstrap−pfa: 9.39e−27
RollingBand−fgt: 1.00 [52/52]
GhostDiagnostic−chr: 6.316

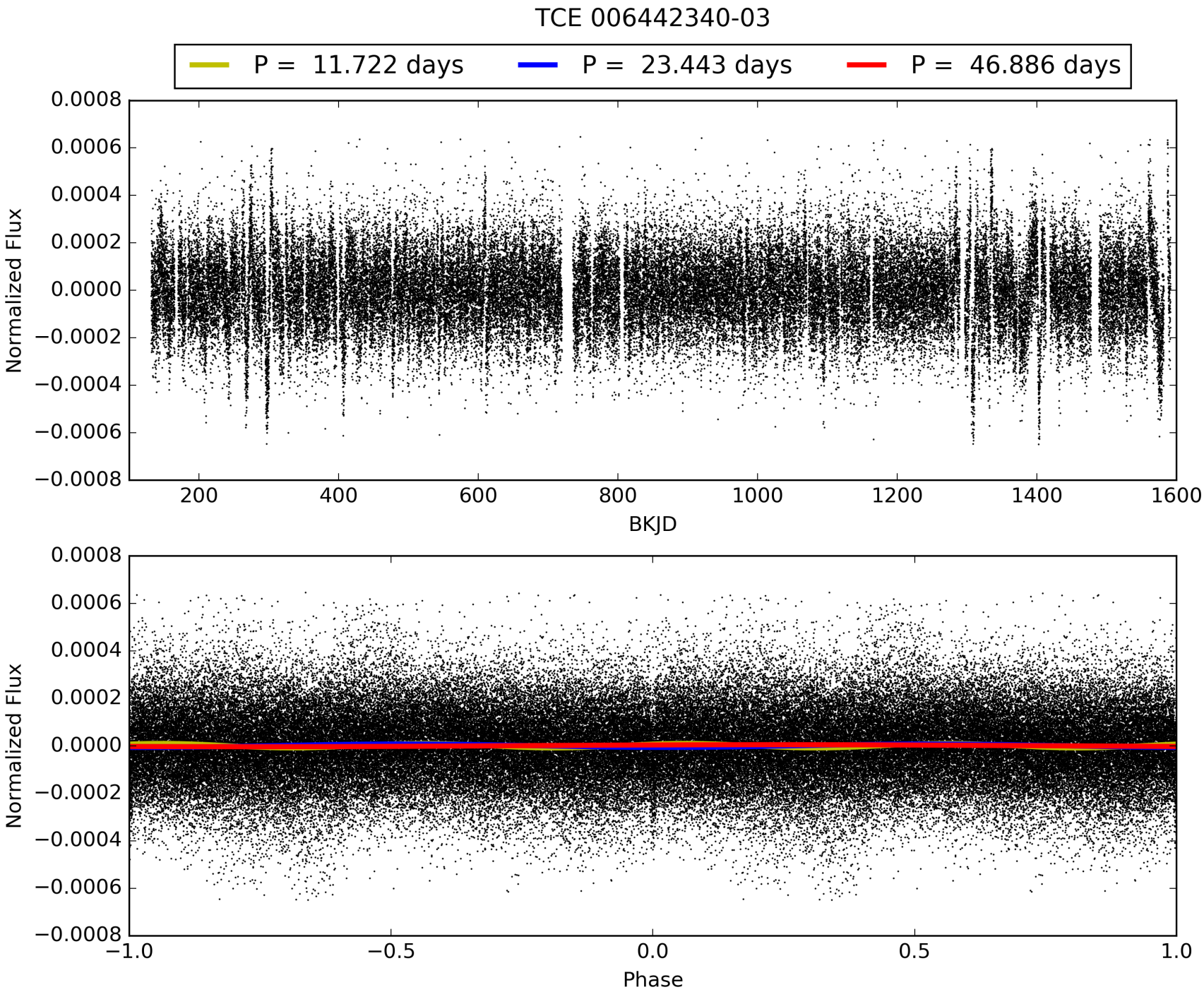
Centroid−sig: 9.5%
Centroid−so: 1.137 arcsec [1.19σ]
OotOffset−rm: 0.877 arcsec [1.38σ]
KicOffset−rm: 0.882 arcsec [1.39σ]
OotOffset−st: 3/3/2/3 [11]
KicOffset−st: 3/3/2/3 [11]
DiffImageQuality−fgm: 0.91 [10/11]
DiffImageOverlap−fno: 0.81 [13/16]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 29−Jan−2016 12:19:25 Z

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

TCE 006442340-03, PDC Light Curves

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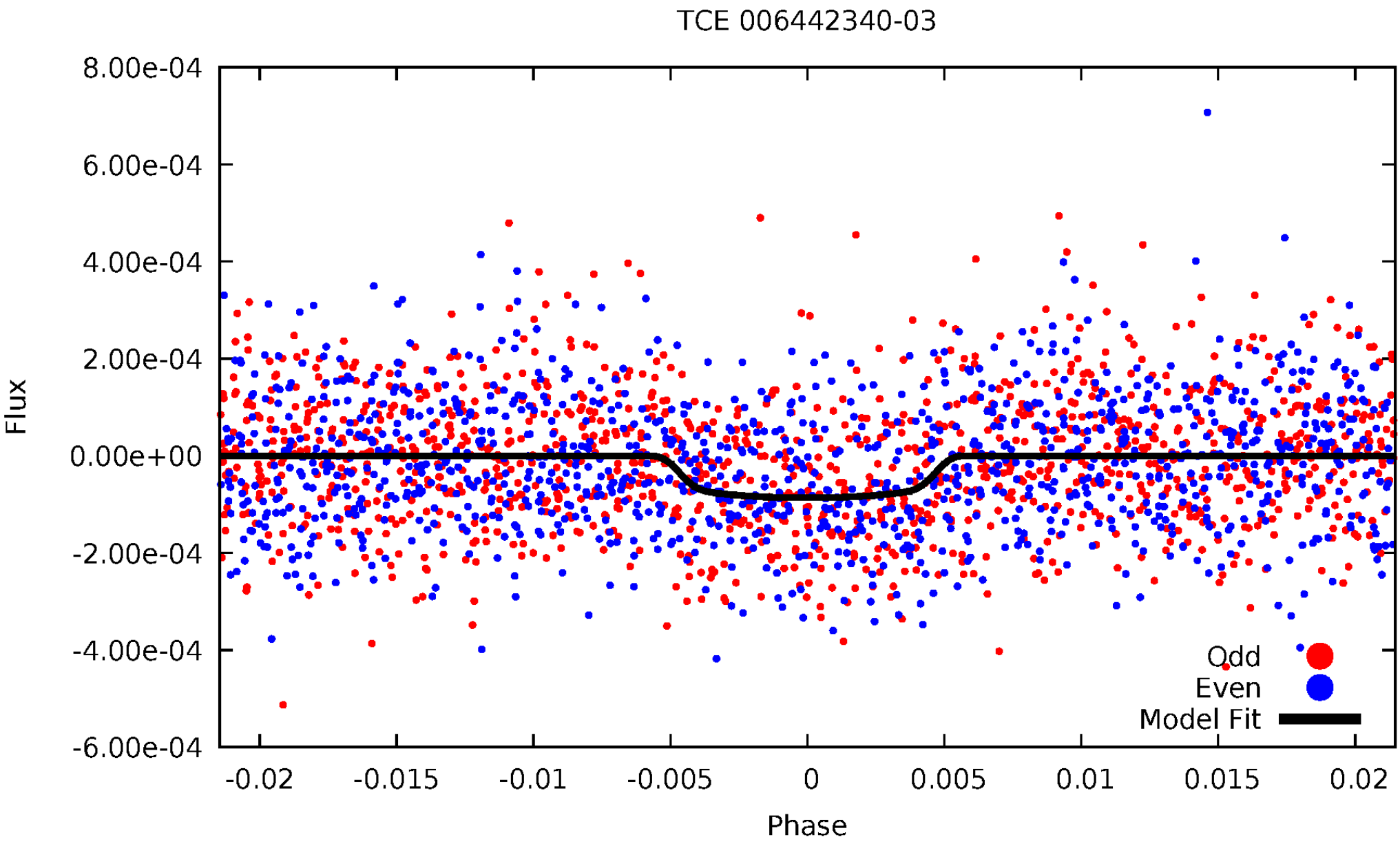
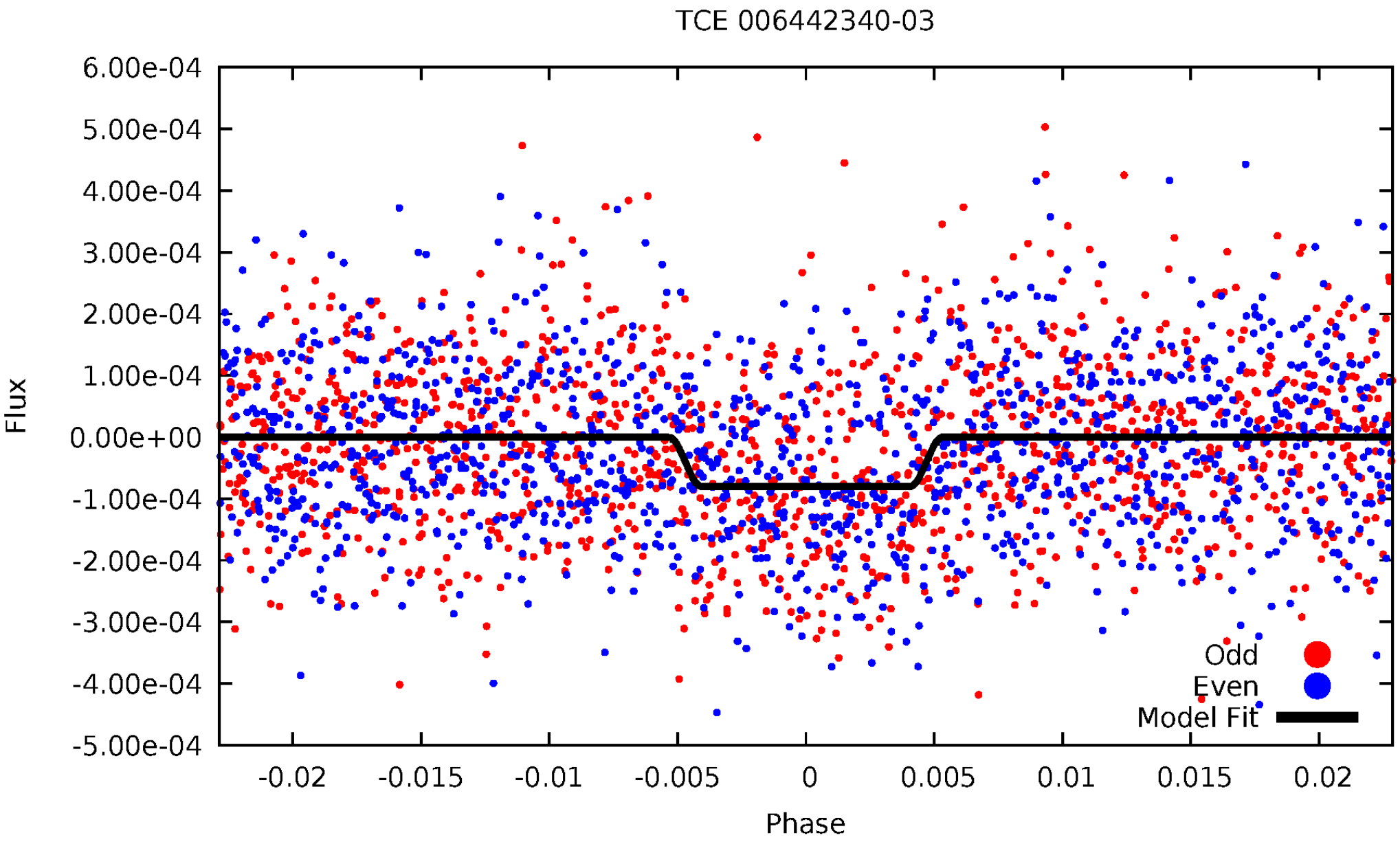
P = 11.722 days
P = 23.443 days
P = 46.886 days
Normalized Flux
BKJD
Normalized Flux
Phase

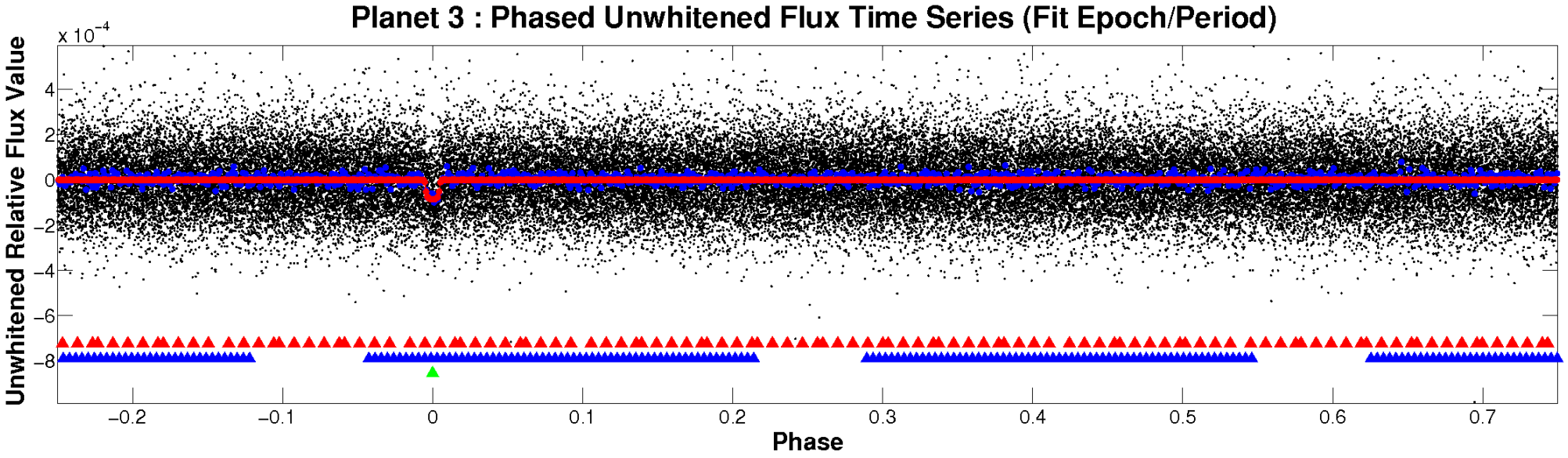
DV Odd/Even

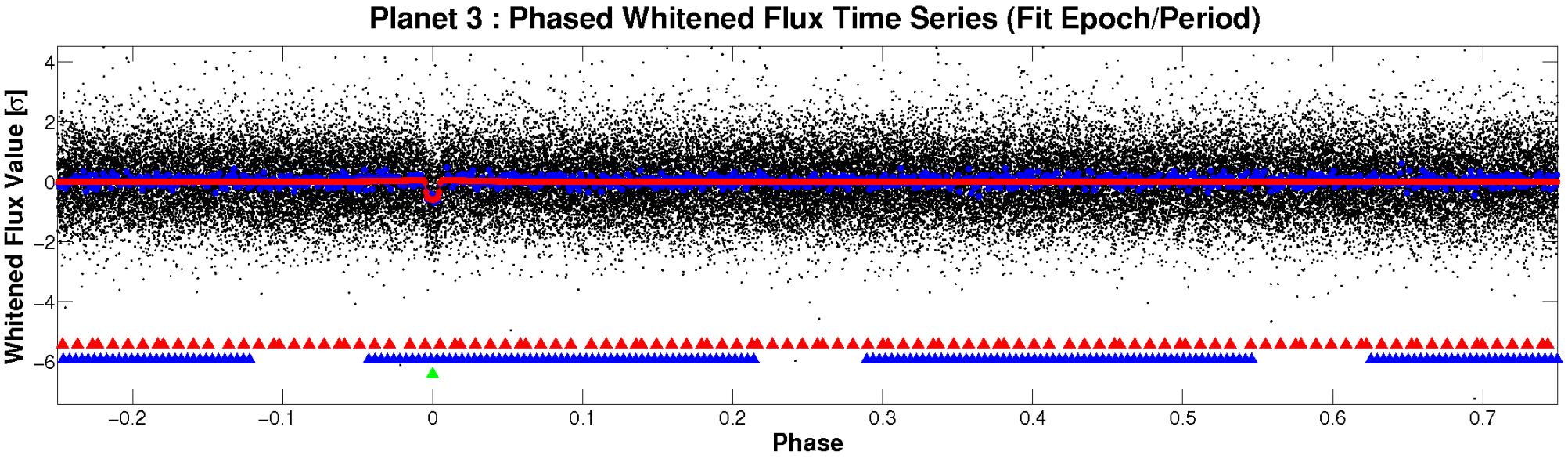

TCE 006442340-03
8.00e-04
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
Flux
-0.02
-0.015
-0.01
-0.005
0
0.005
0.01
0.015
0.02
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006442340-03
6.00e-04
5.00e-04
4.00e-04
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
-5.00e-04
Flux
-0.02
-0.015
-0.01
-0.005
0
0.005
0.01
0.015
0.02
Phase
Odd
Even
Model Fit

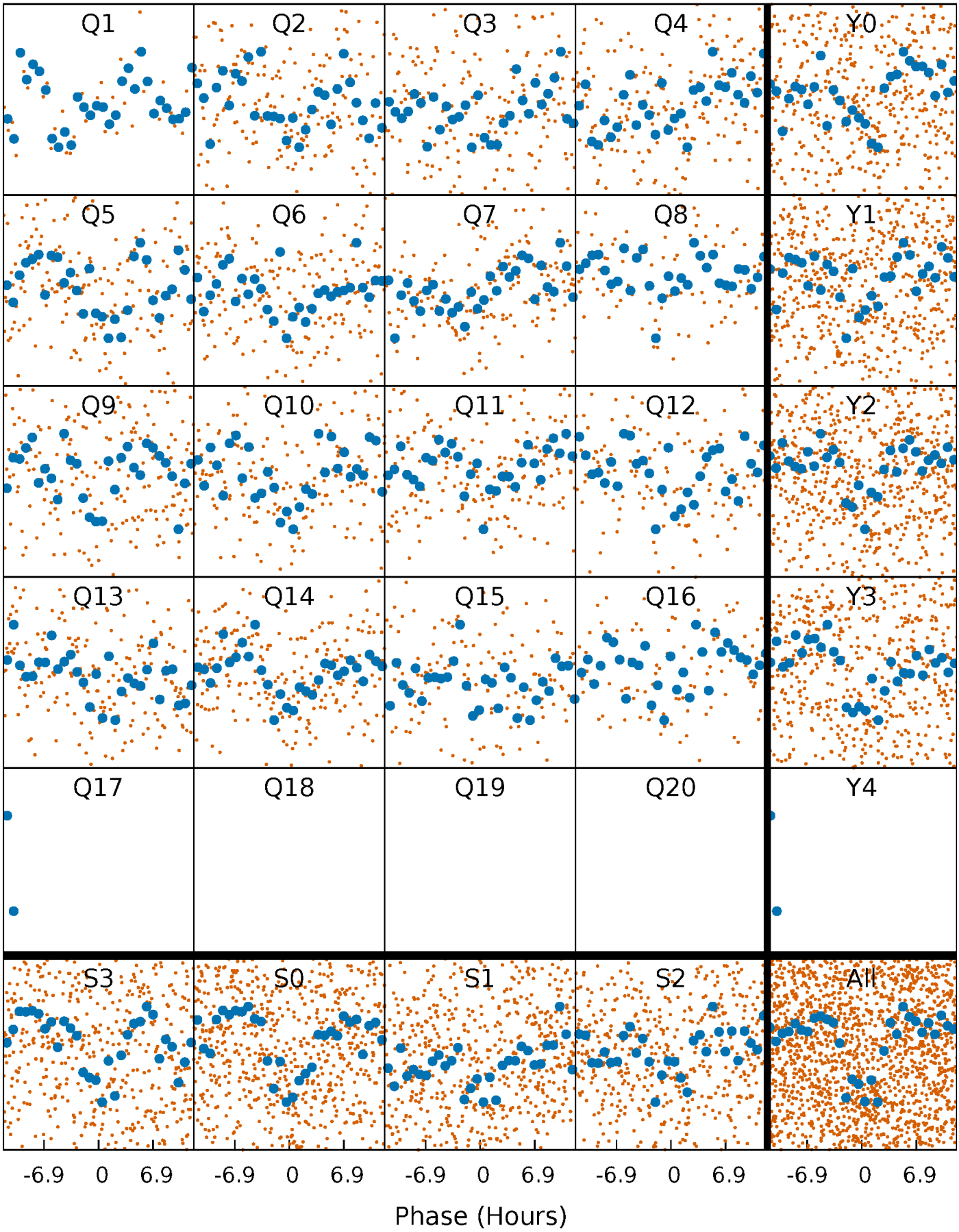
Non-Whitened Vs. Whitened Light Curve





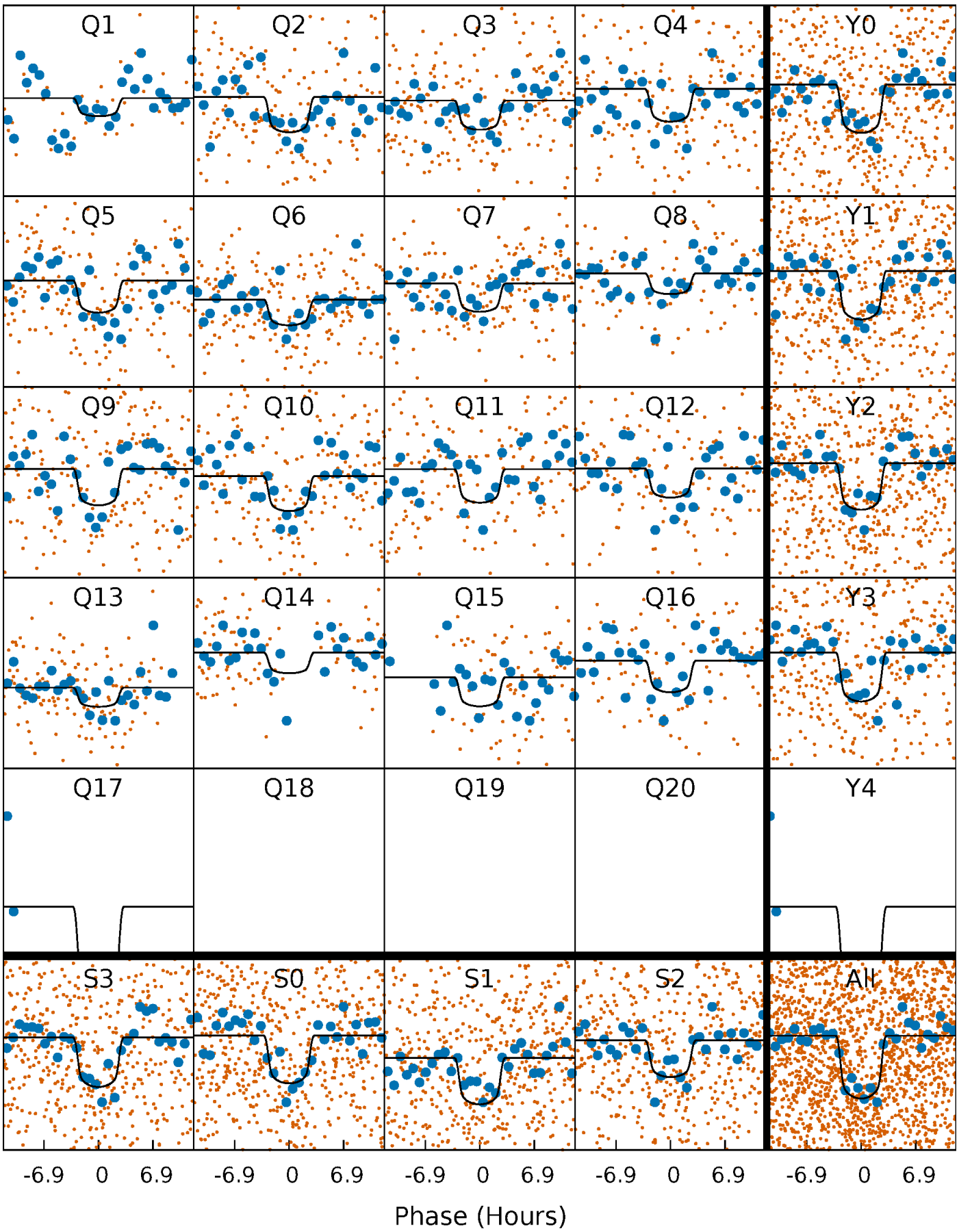
PDC Quarter-Phased Transit Curves

TCE 006442340-03 P= 23.443035 Days T_0=152.013706 (BKJD)



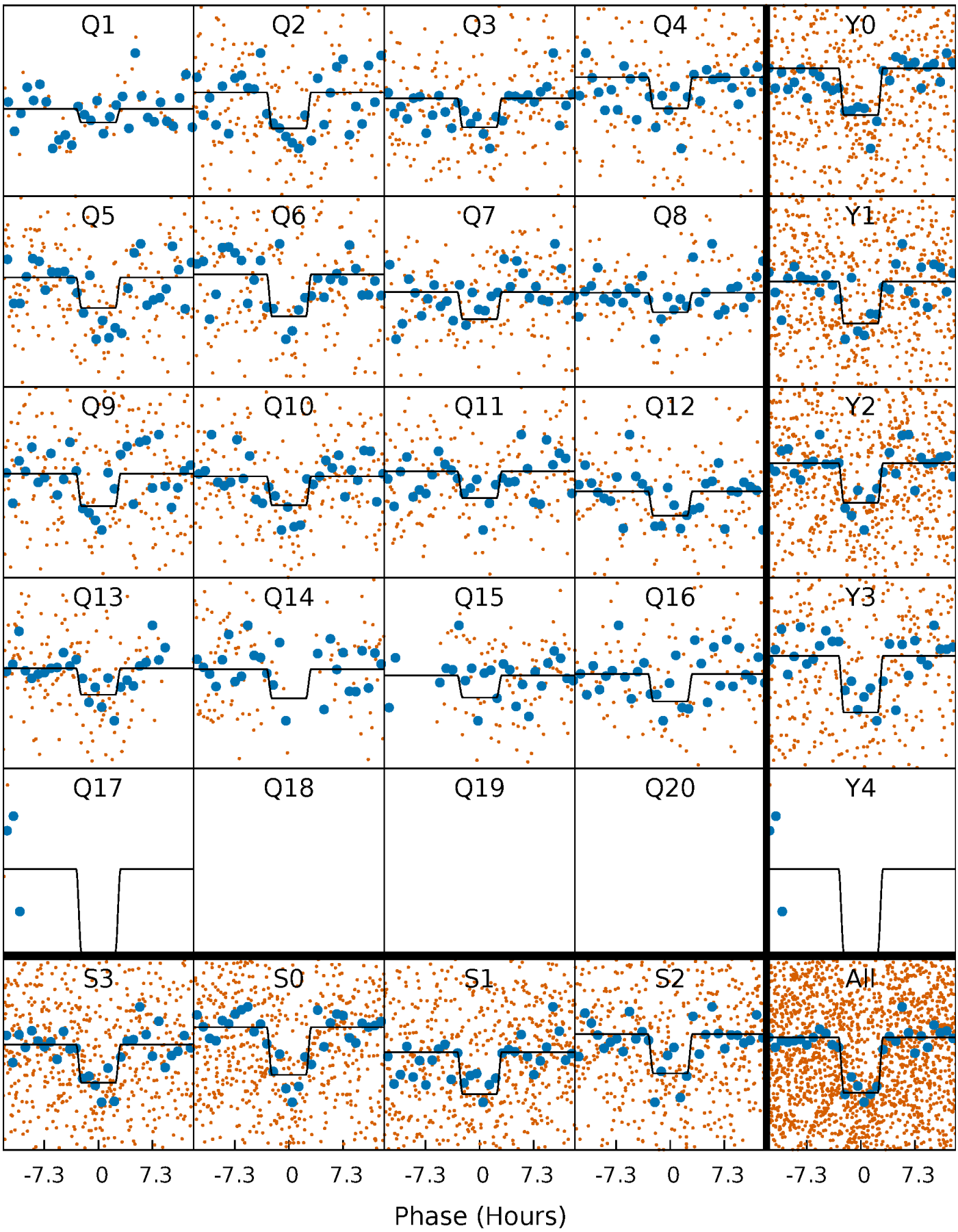
DV Quarter-Phased Transit Curves

TCE 006442340-03 P= 23.443035 Days T_0=152.013706 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

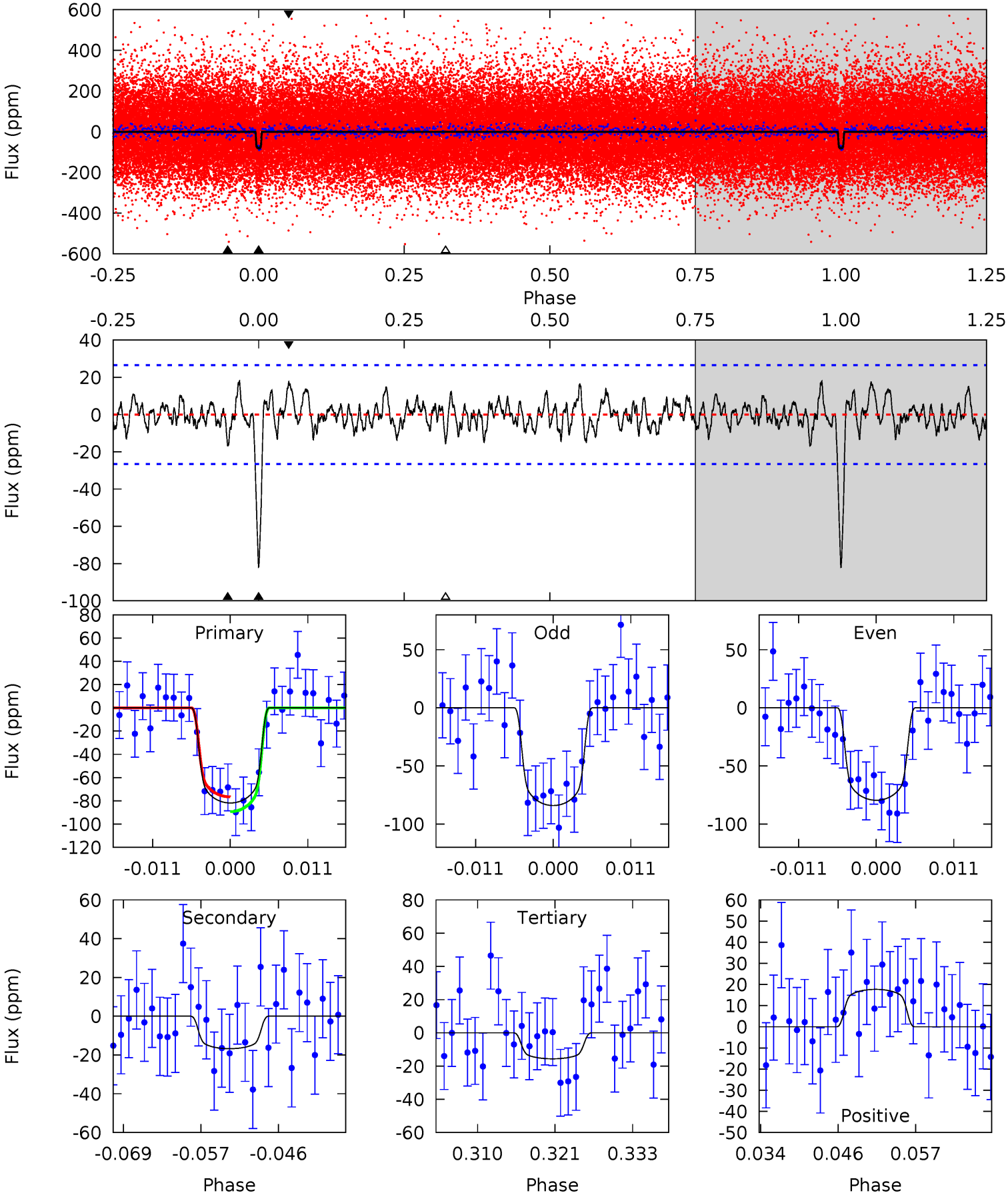
TCE 006442340-03 P= 23.442761 Days T_0=152.022479 (BKJD)



DV Model-Shift Uniqueness Test

006442340-03, P = 23.443035 Days, E = 128.570671 Days

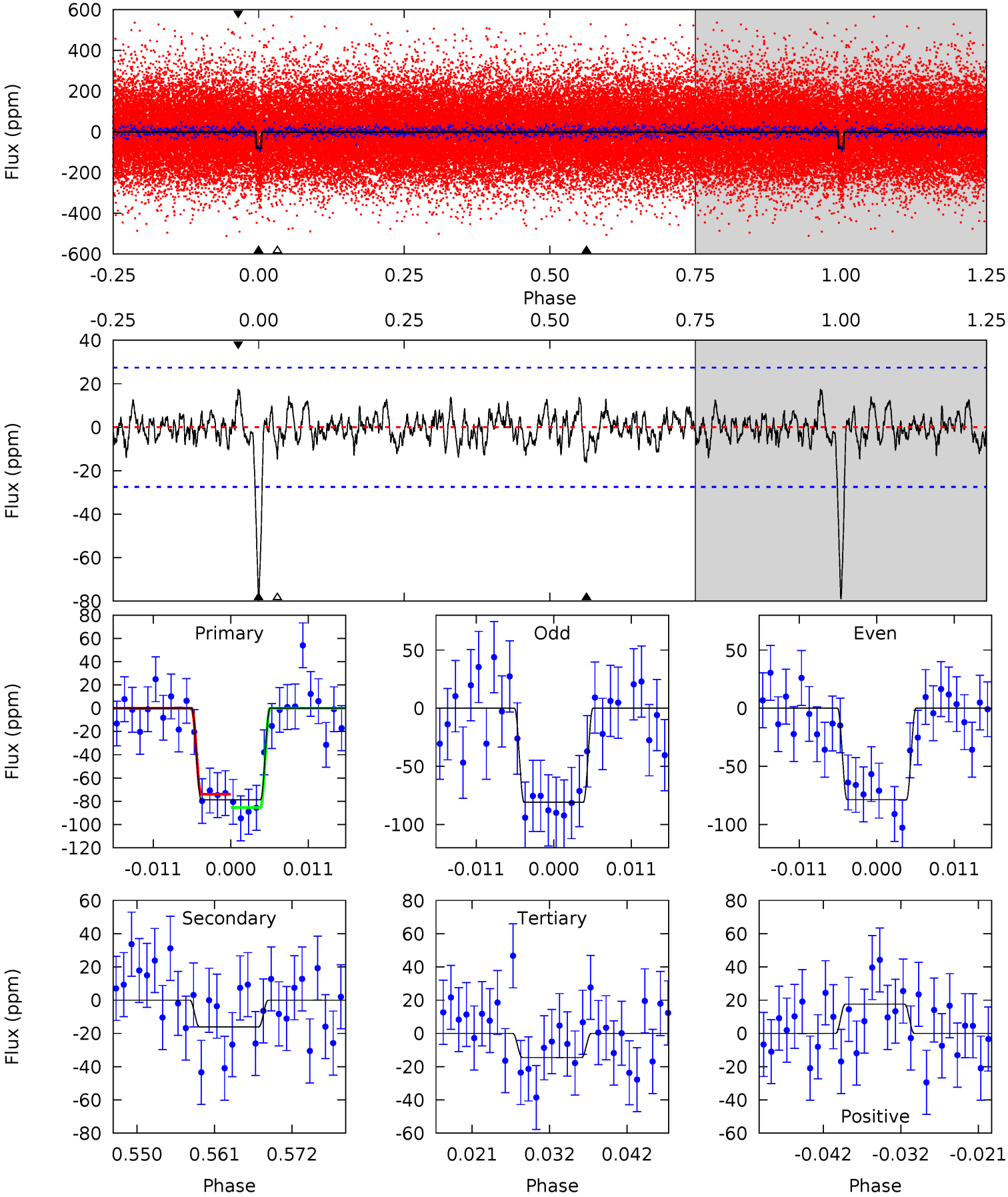
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.4	3.15	2.94	3.33	5.00	2.53	1.14	12.5	12.1	0.21	-0.18	0.43	0.98	0.18	1.20



Alt Model-Shift Uniqueness Test

006442340-03, P = 23.442761 Days, E = 128.579718 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.4	2.95	2.65	3.22	5.02	2.56	0.98	11.7	11.2	0.30	-0.27	0.20	0.99	0.18	1.04



Stellar Parameters For KIC 006442340

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5762^{+104}_{-115}	$4.314^{+0.132}_{-0.108}$	$0.060^{+0.150}_{-0.150}$	$1.143^{+0.181}_{-0.164}$	$0.982^{+0.079}_{-0.065}$	$0.927^{+0.553}_{-0.294}$
	+2%/-2%	+3%/-3%	+250%/-250%	+16%/-14%	+8%/-7%	+60%/-32%
Source	SPE58	SPE58	SPE58	DSEP		

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

Secondary Eclipse Parameters for KIC 006442340-03 / KOI 0664.03

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-17±5	$1.37^{+0.21}_{-0.19}$	947^{+47}_{-43}	3863^{+265}_{-293}	122^{+63}_{-45}
Alt.	-16±5	$1.11^{+0.18}_{-0.17}$	950^{+41}_{-40}	4116^{+332}_{-361}	179^{+98}_{-73}

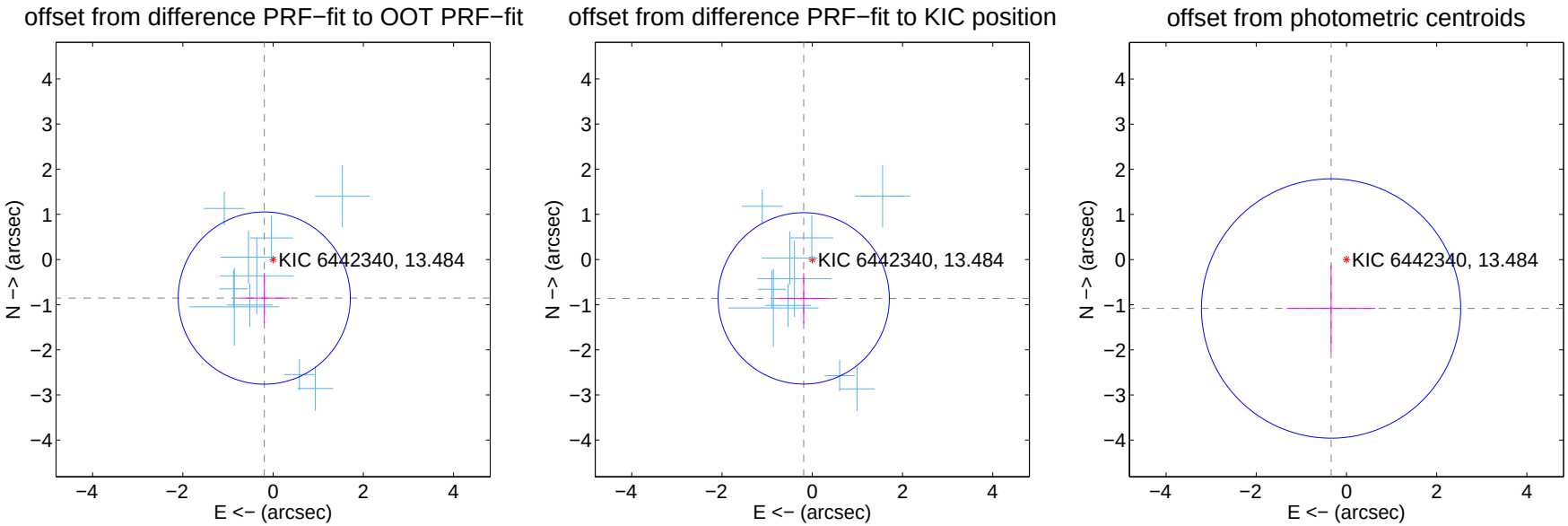
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

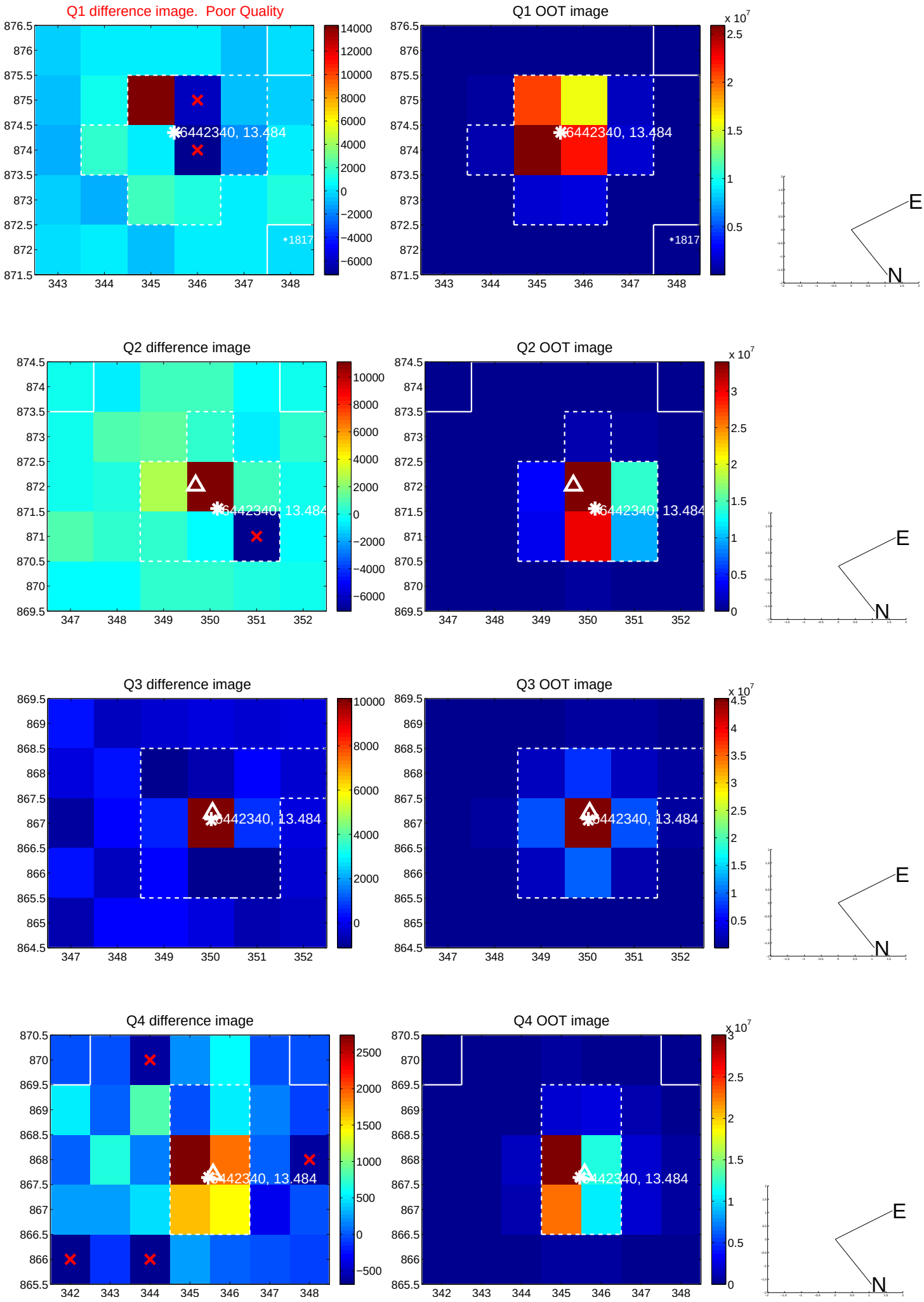
Supplemental centroid analysis for 006442340-03. Kepler magnitude: 13.48. Transit SNR 11.97
There are 10 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.05 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.877 ± 0.636	1.38	0.196 ± 0.565	-0.855 ± 0.558
PRF-fit source offset from KIC position	0.882 ± 0.633	1.39	0.190 ± 0.570	-0.861 ± 0.557
photometric centroid source offset	1.14 ± 0.96	1.19	0.34 ± 0.98	-1.08 ± 0.96

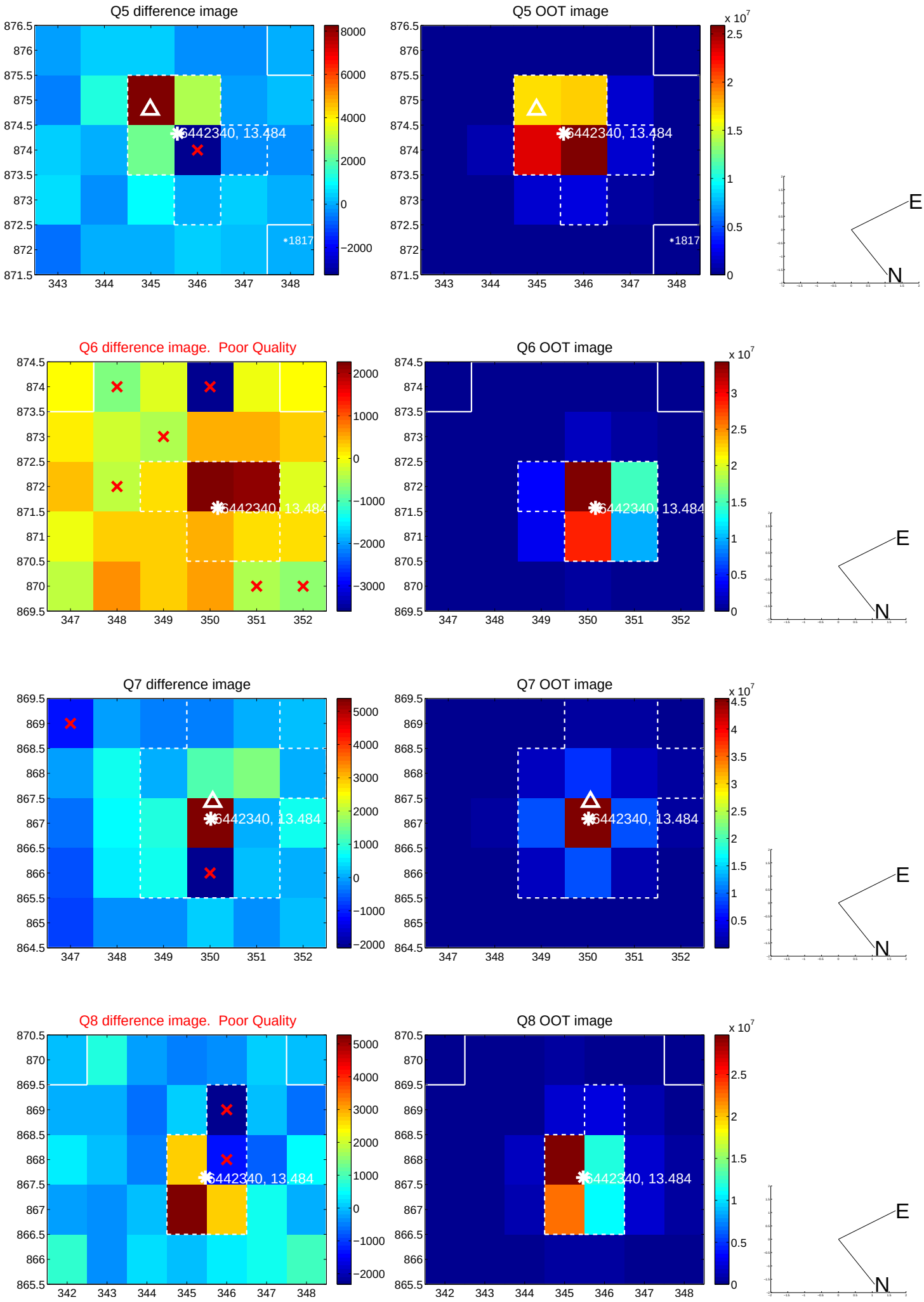


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

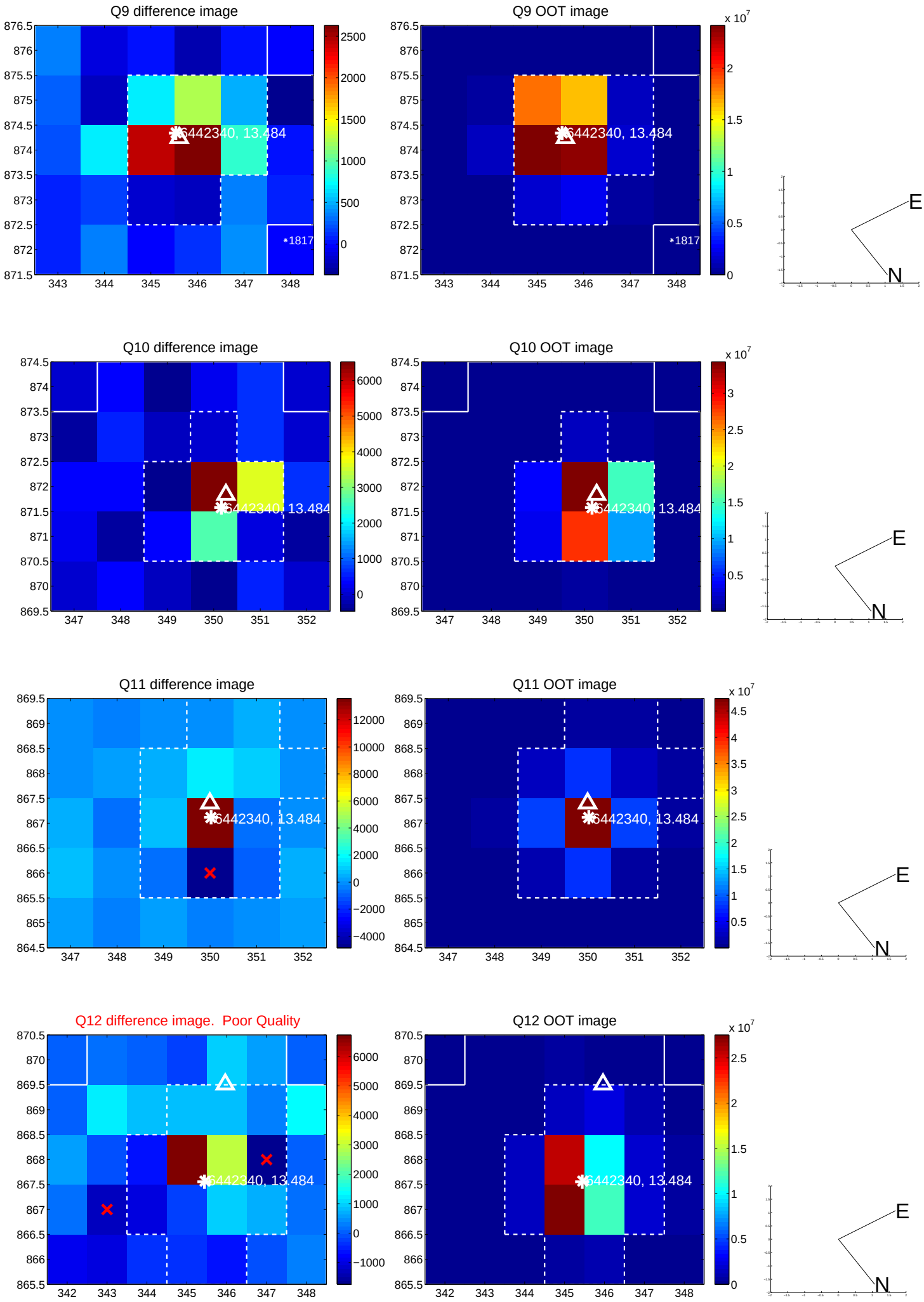
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



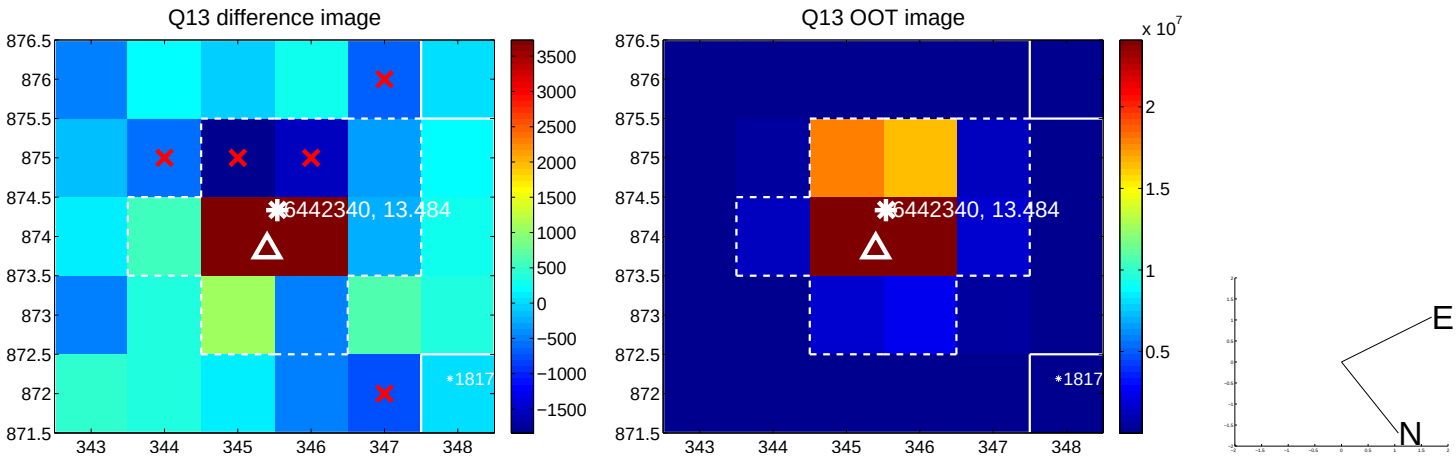
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

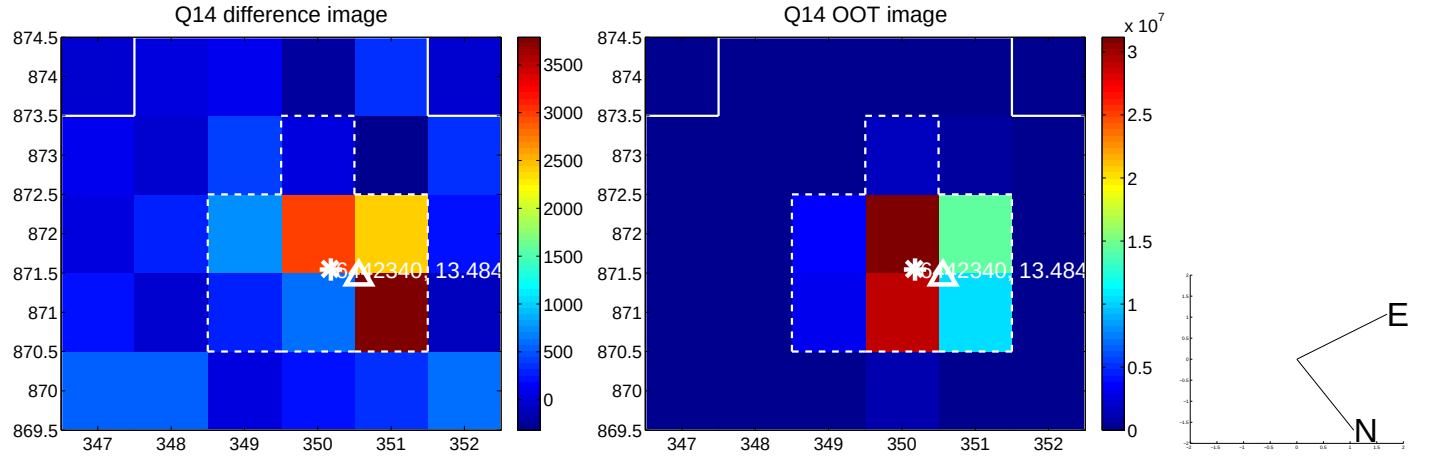


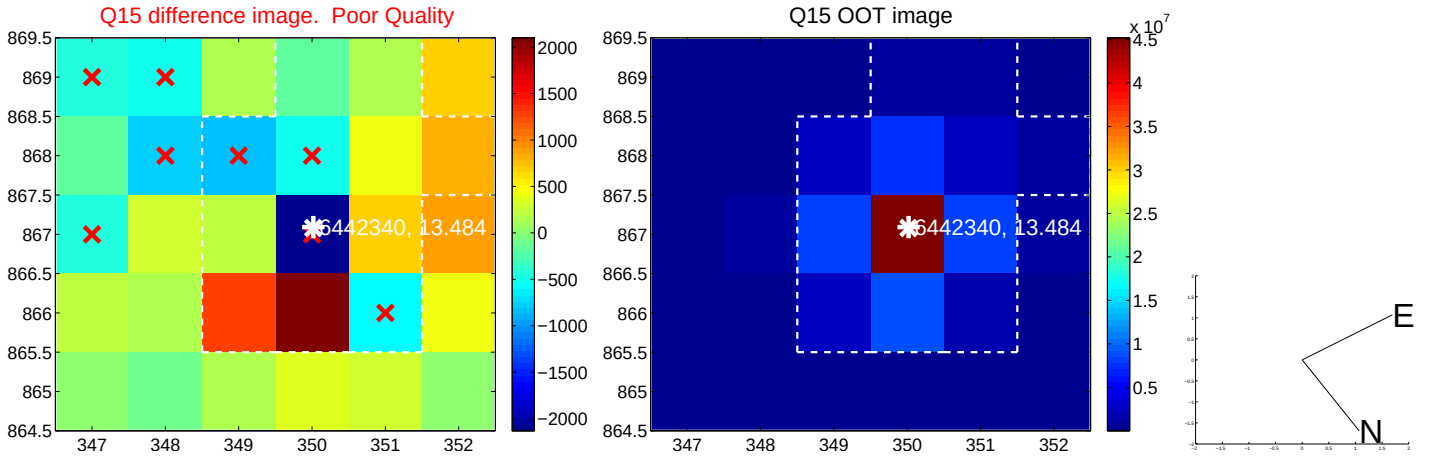
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

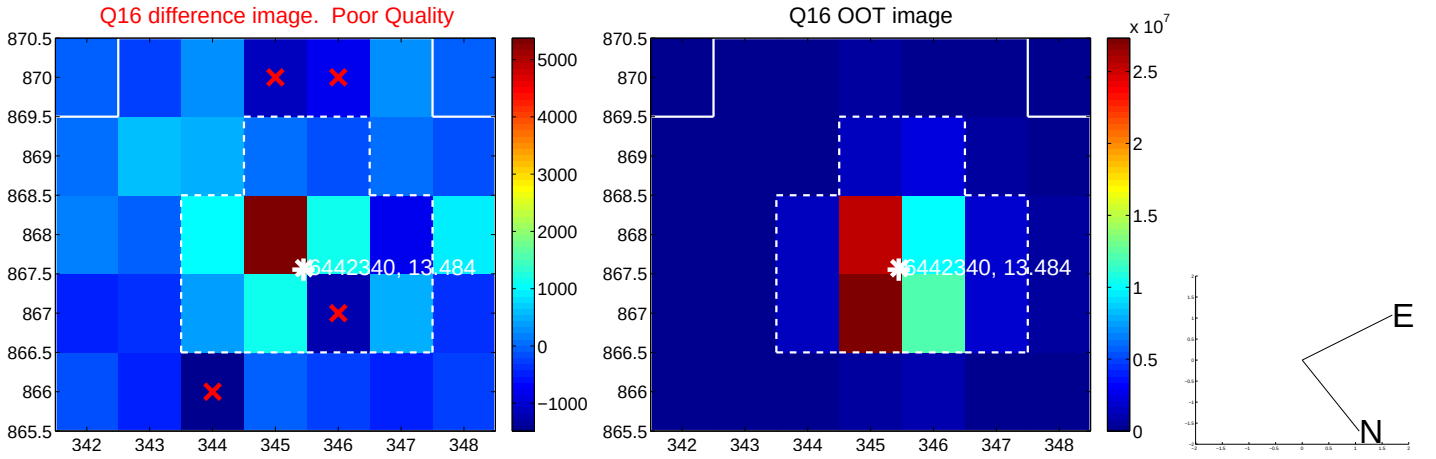


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

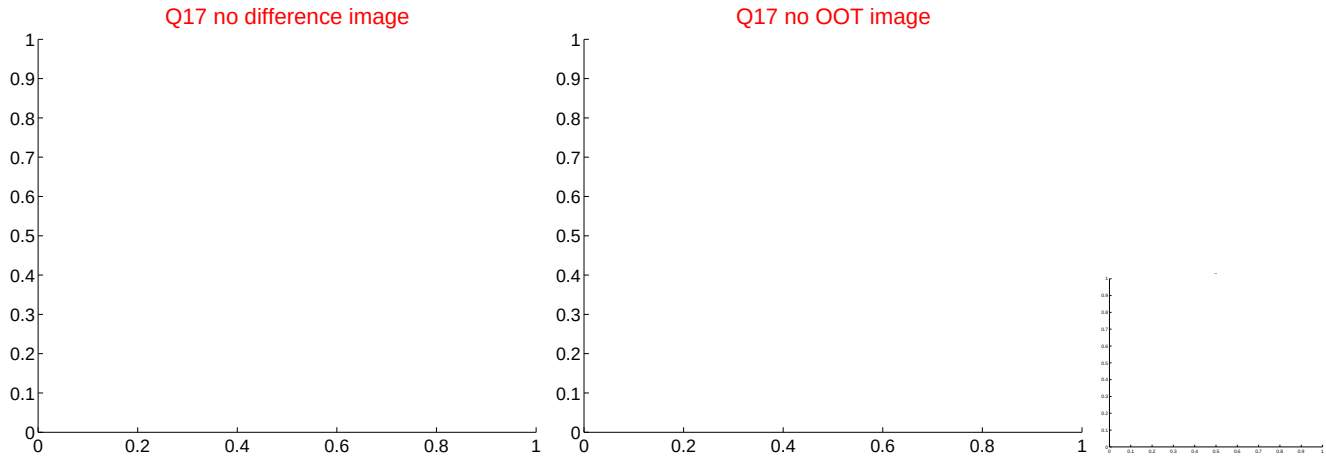


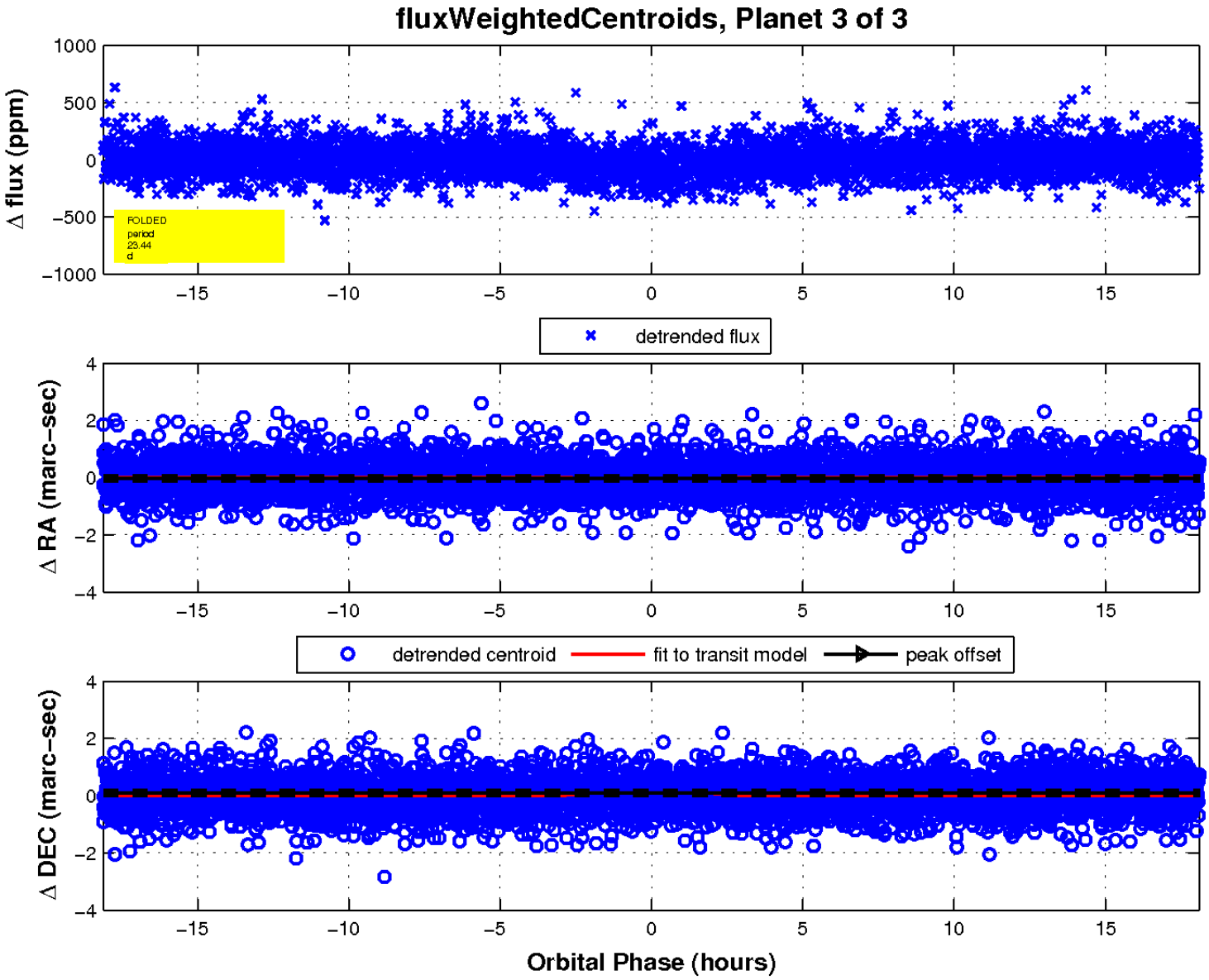




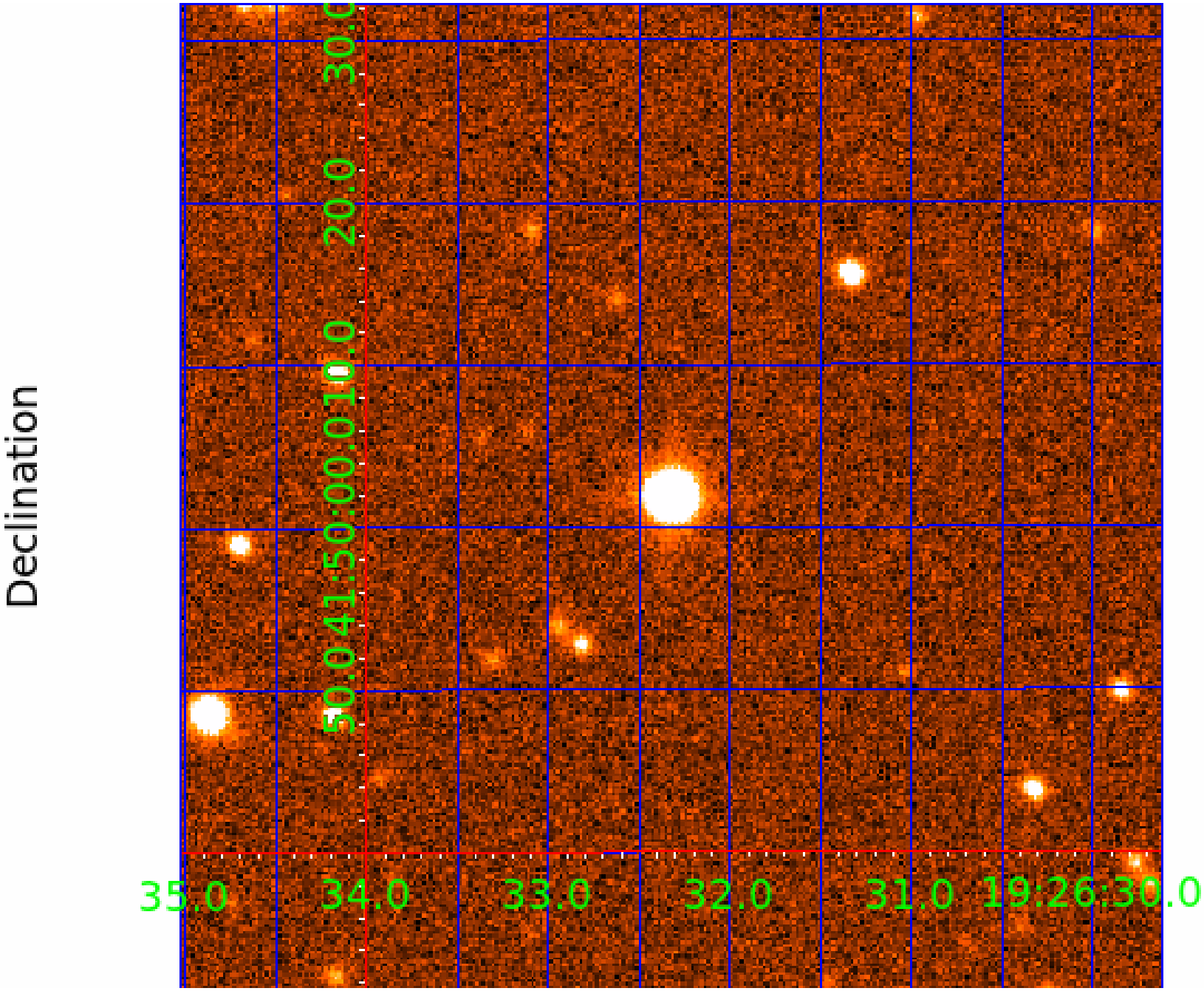


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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