KIC 006584167

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 ($S_\oplus$)
006584167-01	OBS	6732.01	0.733681	132.054305	8.7	4.245	9.2	5.4	1.41	6175	0.43	10844.67
006584167-02	OBS	No	90.320532	140.068469	218.9	6.769	8.7	7.5	1.41	6175	3.41	17.71
006584167-03	OBS	No	575.150465	213.182865	218.8	5.028	7.6	8.4	1.41	6175	2.42	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006584167-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006584167-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
006584167-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

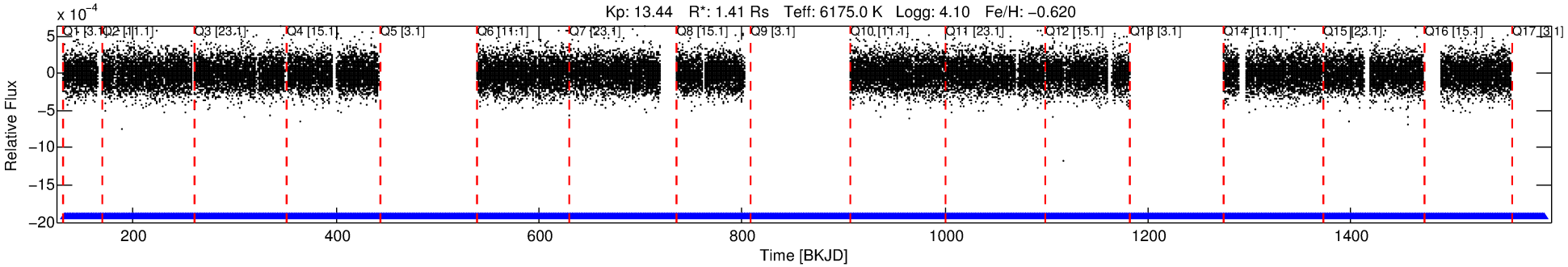
Ephemeris Match Information For 006584167-01

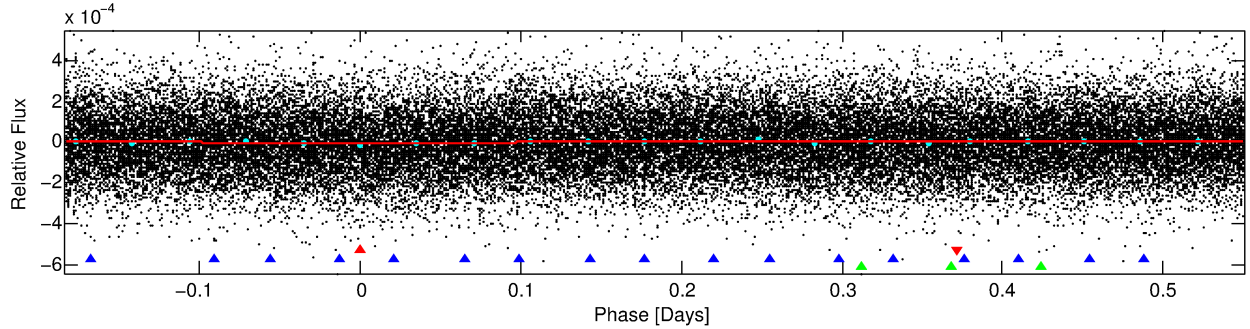
No Significant Match Found

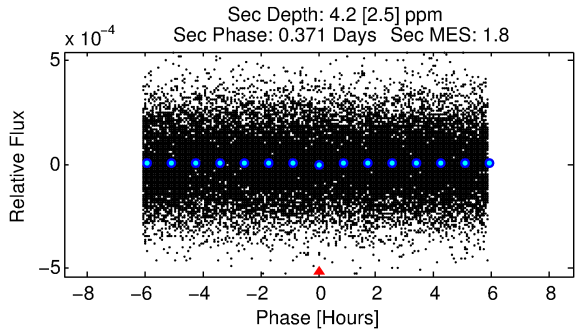
DV One-Page Summary

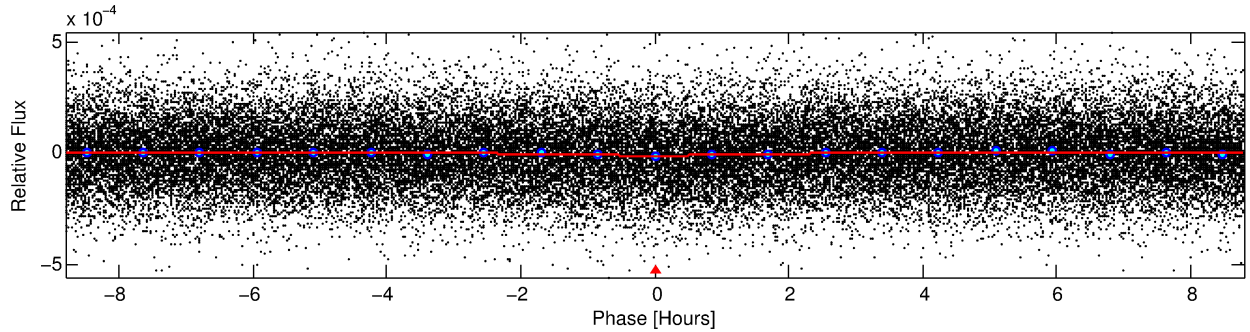
KIC: 6584167 Candidate: 1 of 3 Period: 0.734 d
KOI: K06732 Corr: No Ephemeris Match

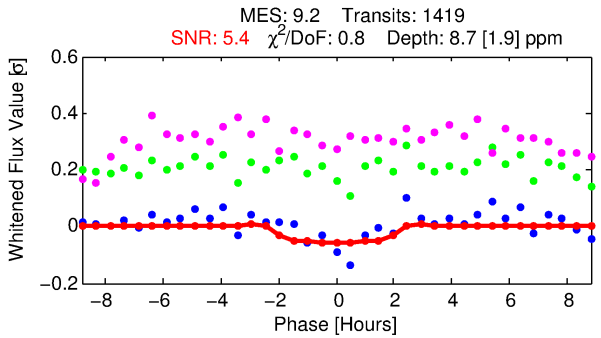
Kp: 13.44 R*: 1.41 Rs Teff: 6175.0 K Logg: 4.10 Fe/H: −0.620

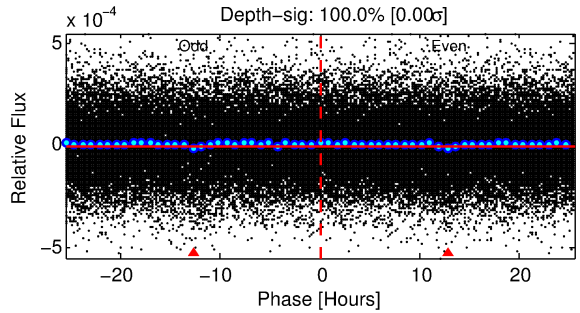


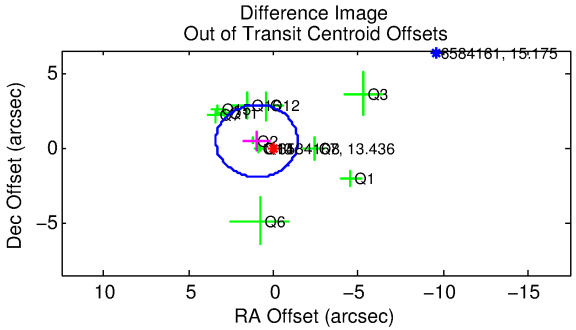












DV Fit Results:

Period = 0.73368 [0.00002] d
Epoch = 132.0543 [0.0086] BKJD
Rp/R* = 0.0028 [0.0019]
a/R* = 1.36 [2.29]
b = 0.50 [5.53]

Seff = 10844.67 [6513.95]
Teq = 2602 [391] K
Rp = 0.43 [0.34] Re
a = 0.0154 [0.0056] AU

Ag = 2.99 [4.89] [0.41σ]
Teffp = 5292 [2024] K [1.30σ]

DV Diagnostic Results:

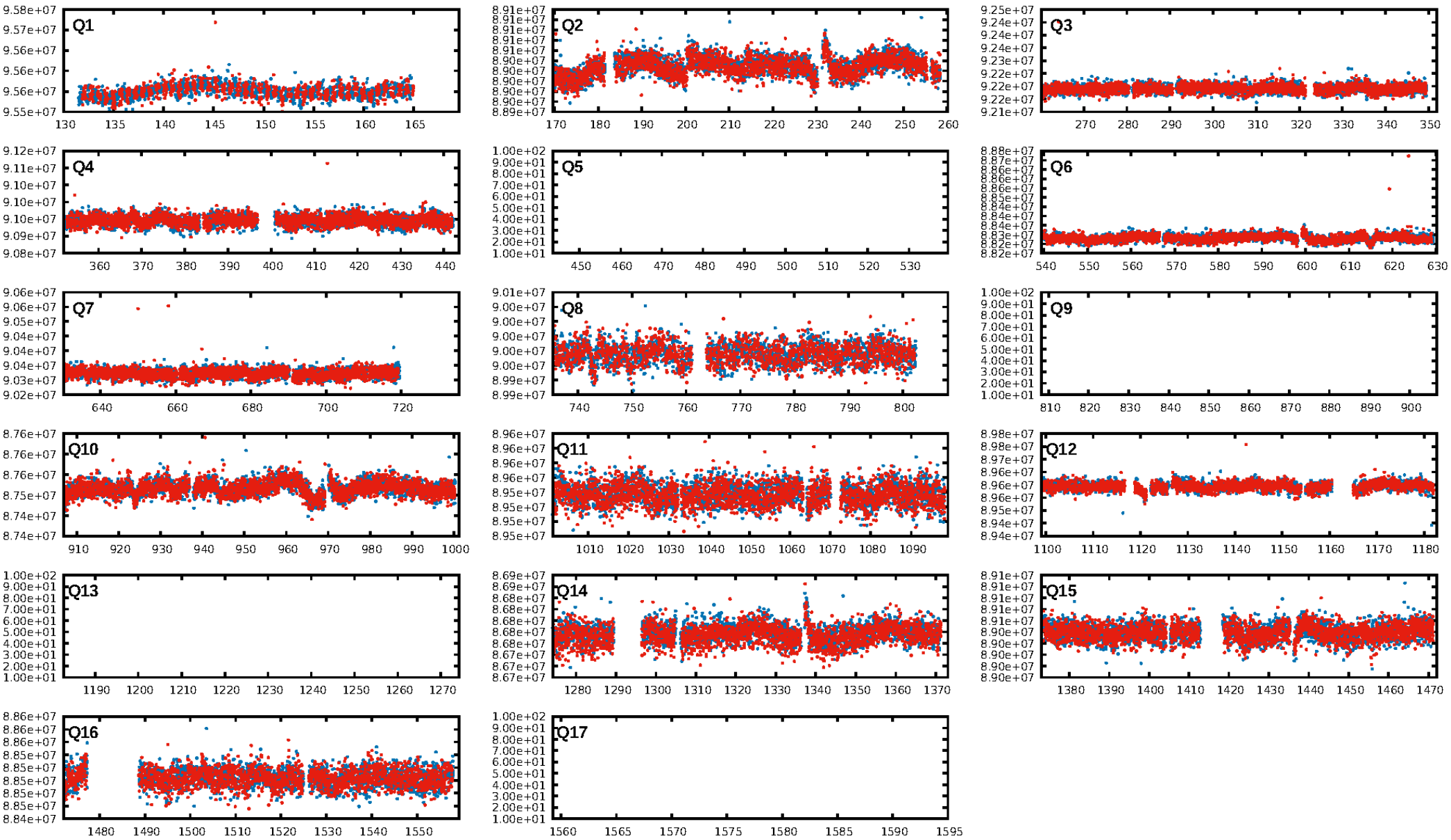
ShortPeriod−sig: N/A
LongPeriod−sig: 100.0% [269.10σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: 1.43e−14
RollingBand−fgt: 1.00 [1373/1373]
GhostDiagnostic−chr: 0.5009

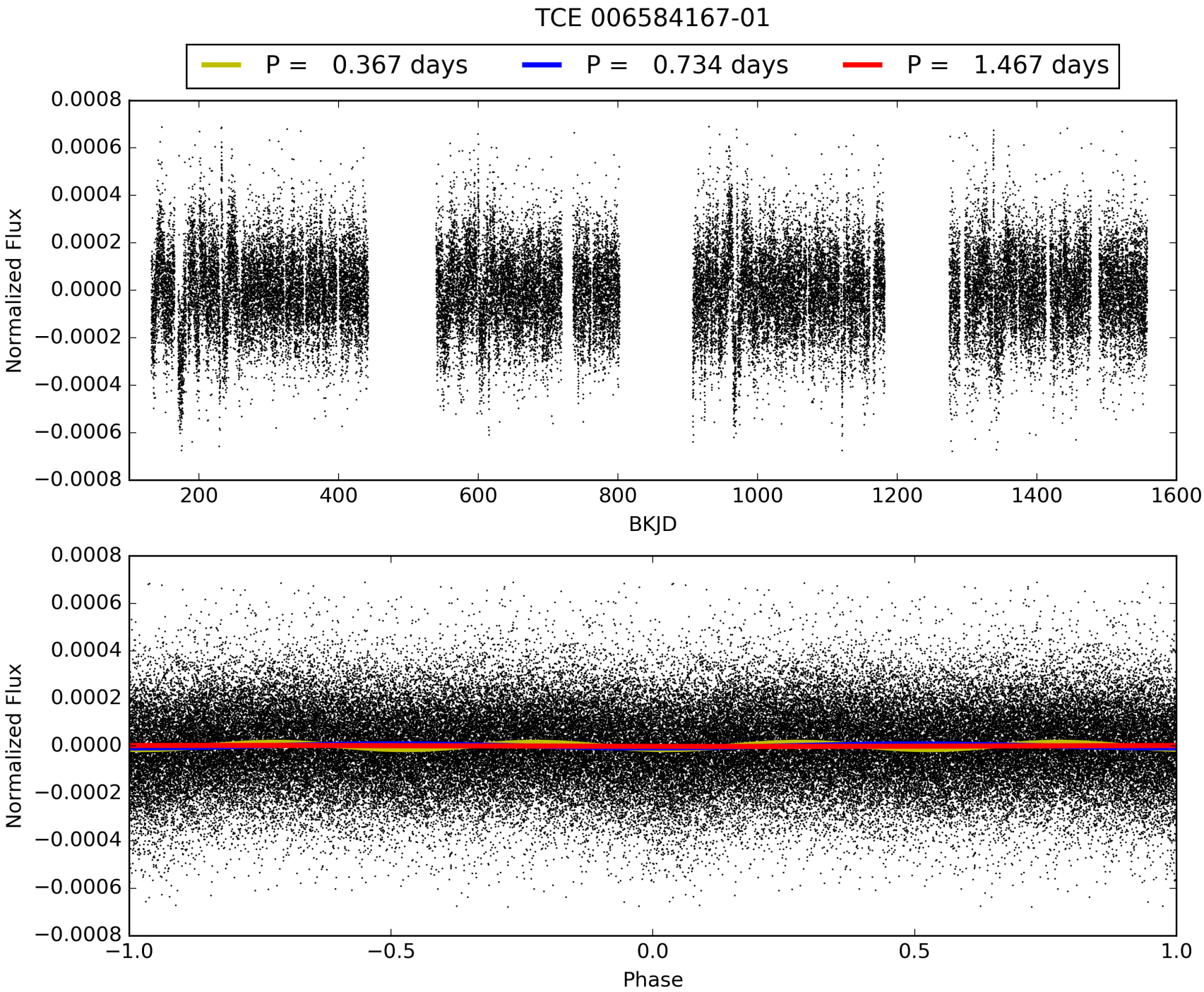
Centroid−sig: 0.0%
Centroid−so: 8.628 arcsec [3.30σ]
OotOffset−rm: 1.072 arcsec [1.33σ]
KicOffset−rm: 1.143 arcsec [1.42σ]
OotOffset−st: 4/4/3/1 [12]
KicOffset−st: 4/4/3/1 [12]
DiffImageQuality−fgm: 0.42 [5/12]
DiffImageOverlap−fno: 1.00 [13/13]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 01−Feb−2016 07:37:04 Z

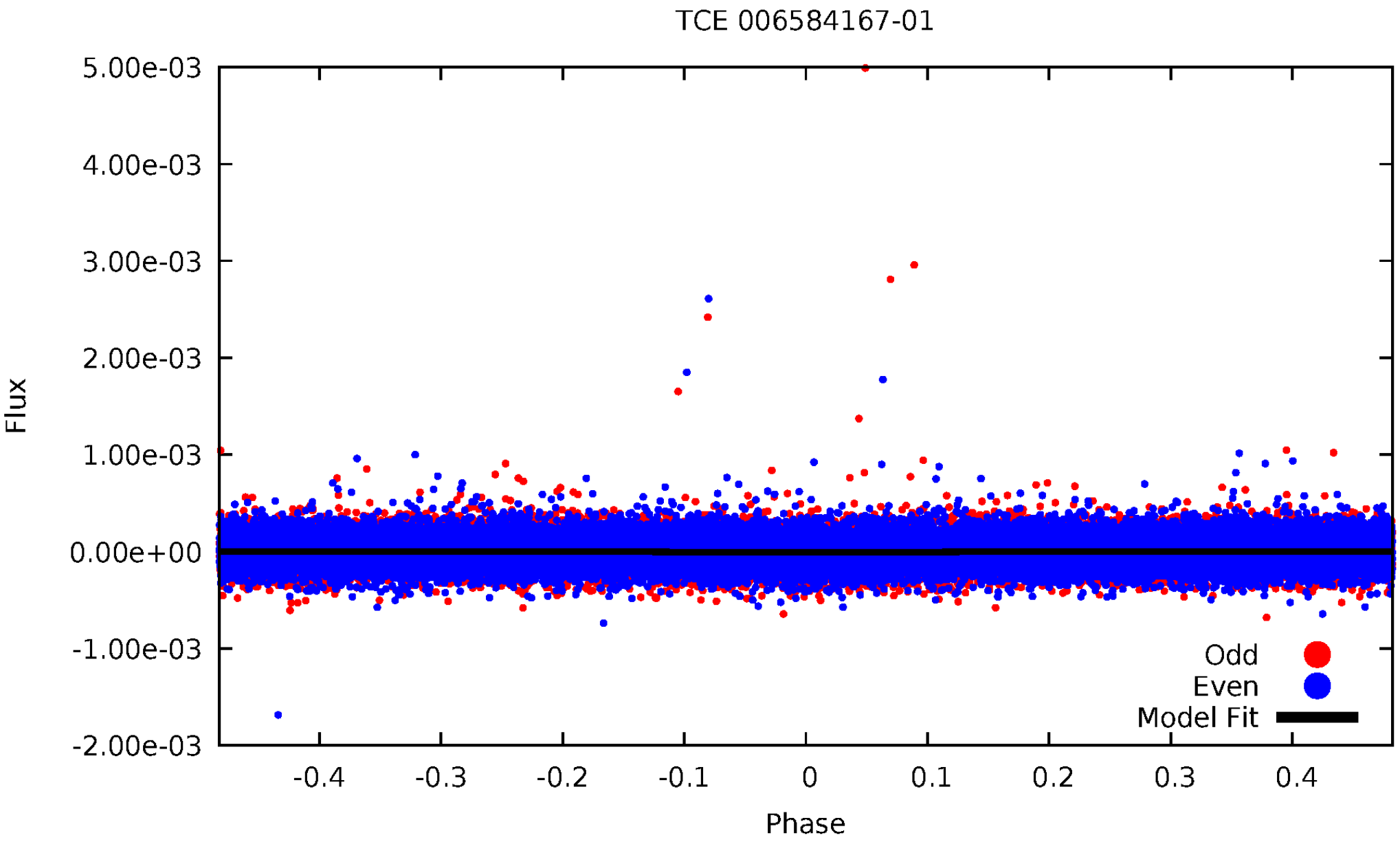
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006584167-01, PDC Light Curves

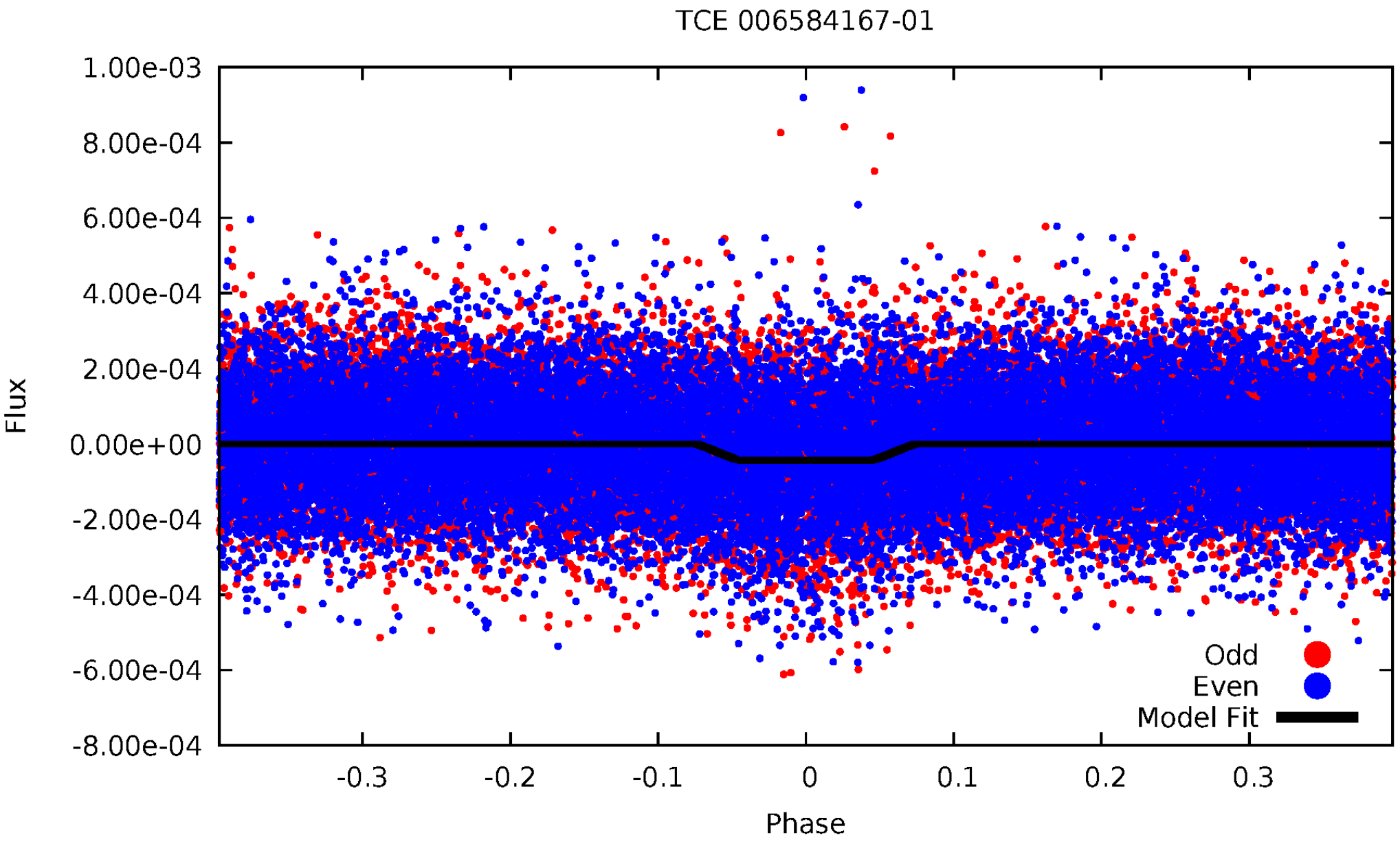



TCE 006584167-01
P = 0.367 days
P = 0.734 days
P = 1.467 days
Normalized Flux
BKJD
Normalized Flux
Phase

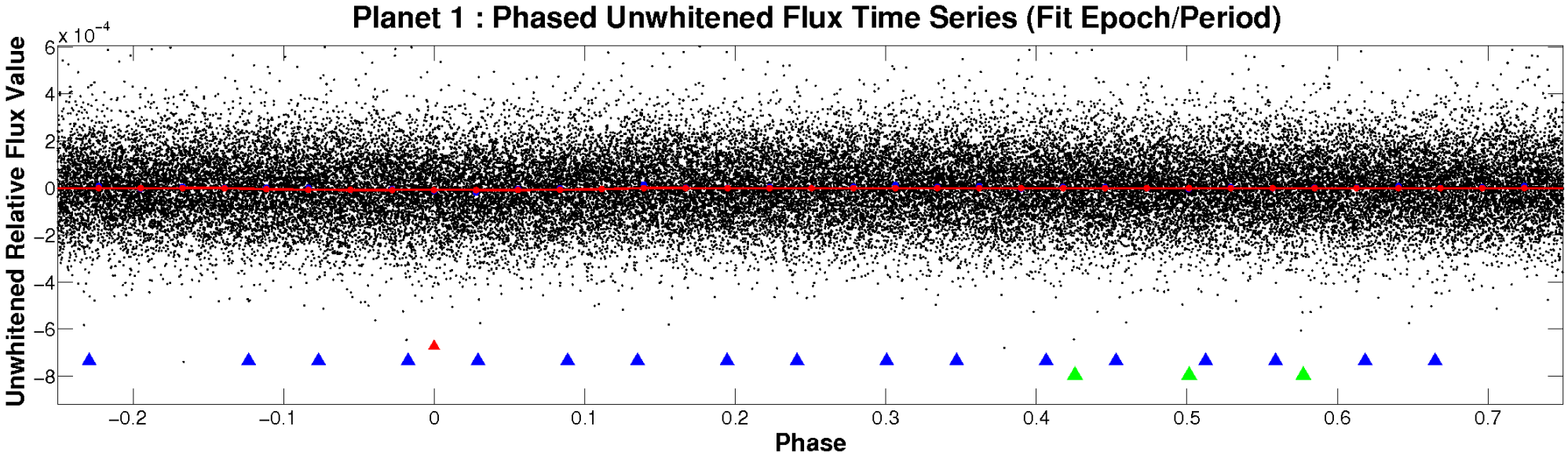
DV Odd/Even

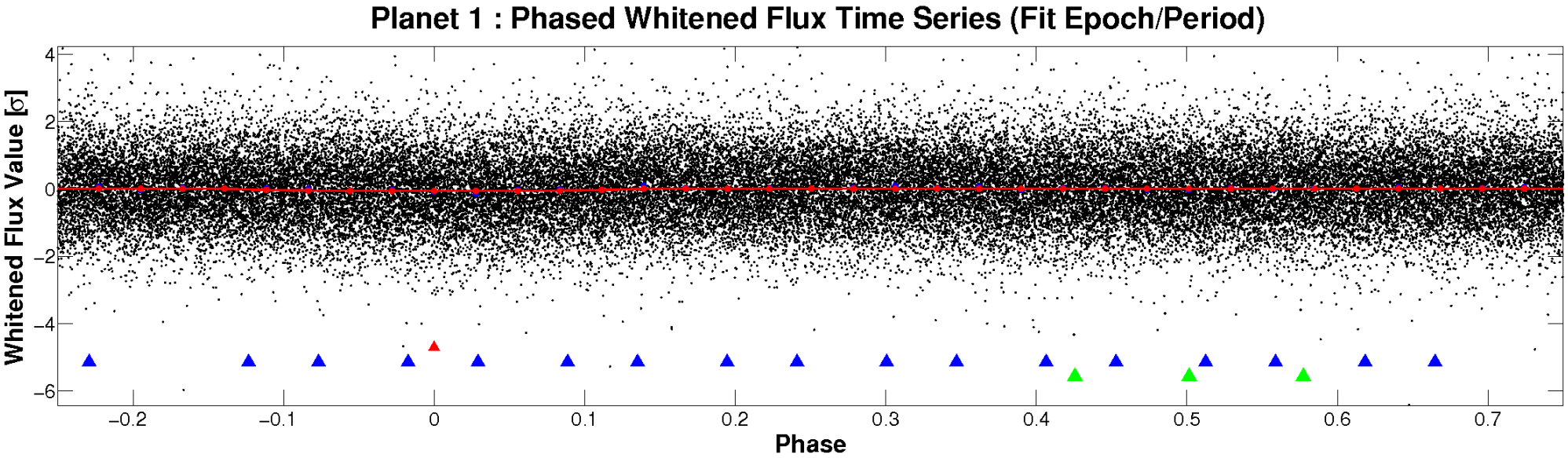

TCE 006584167-01
5.00e-03
4.00e-03
3.00e-03
2.00e-03
1.00e-03
0.00e+00
-1.00e-03
-2.00e-03
Flux
-0.4
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
0.4
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006584167-01
1.00e-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
-8.00e-04
Flux
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
Phase
Odd
Even
Model Fit

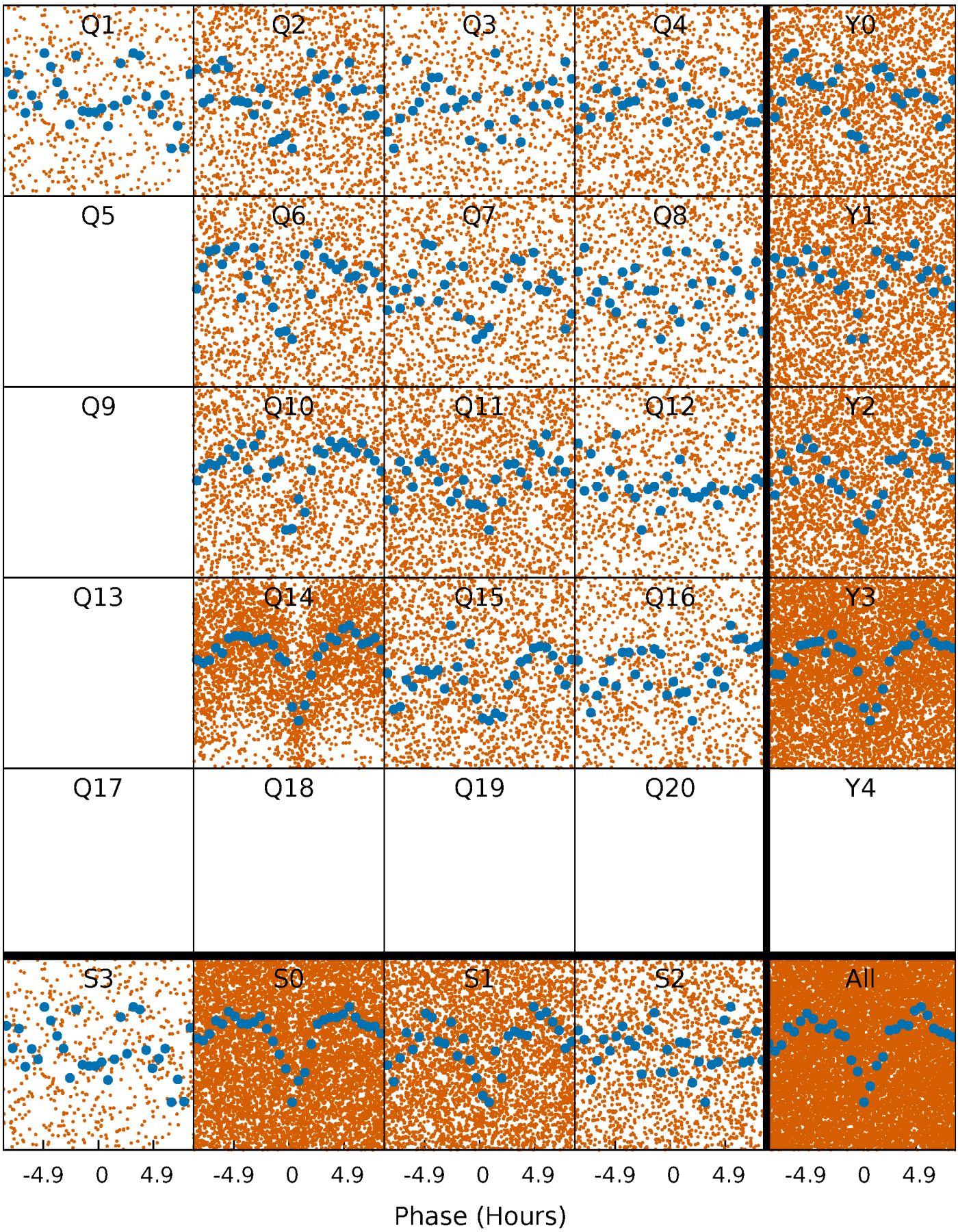
Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

TCE 006584167-01 P= 0.733681 Days T_0=132.054305 (BKJD)



DV Quarter-Phased Transit Curves

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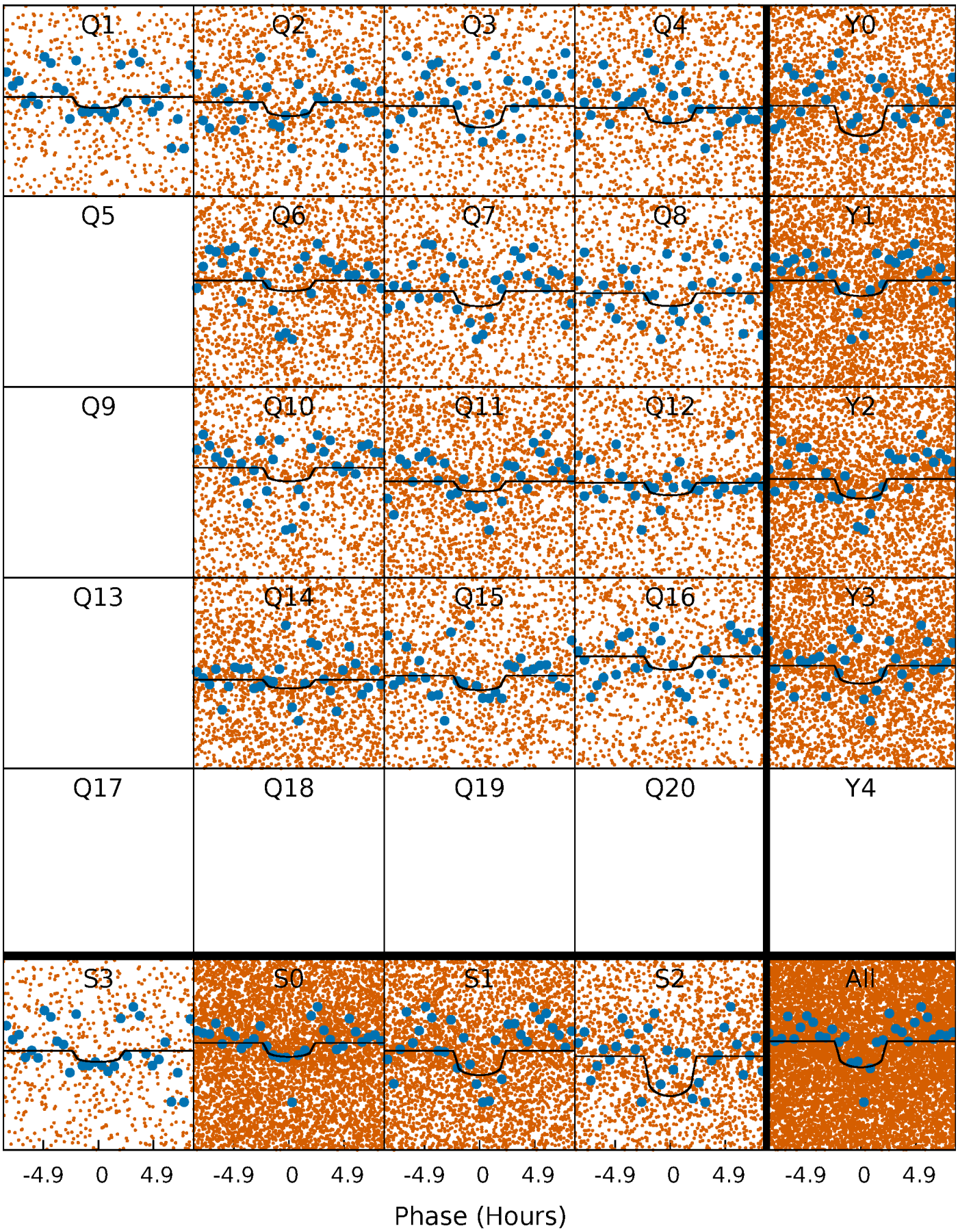
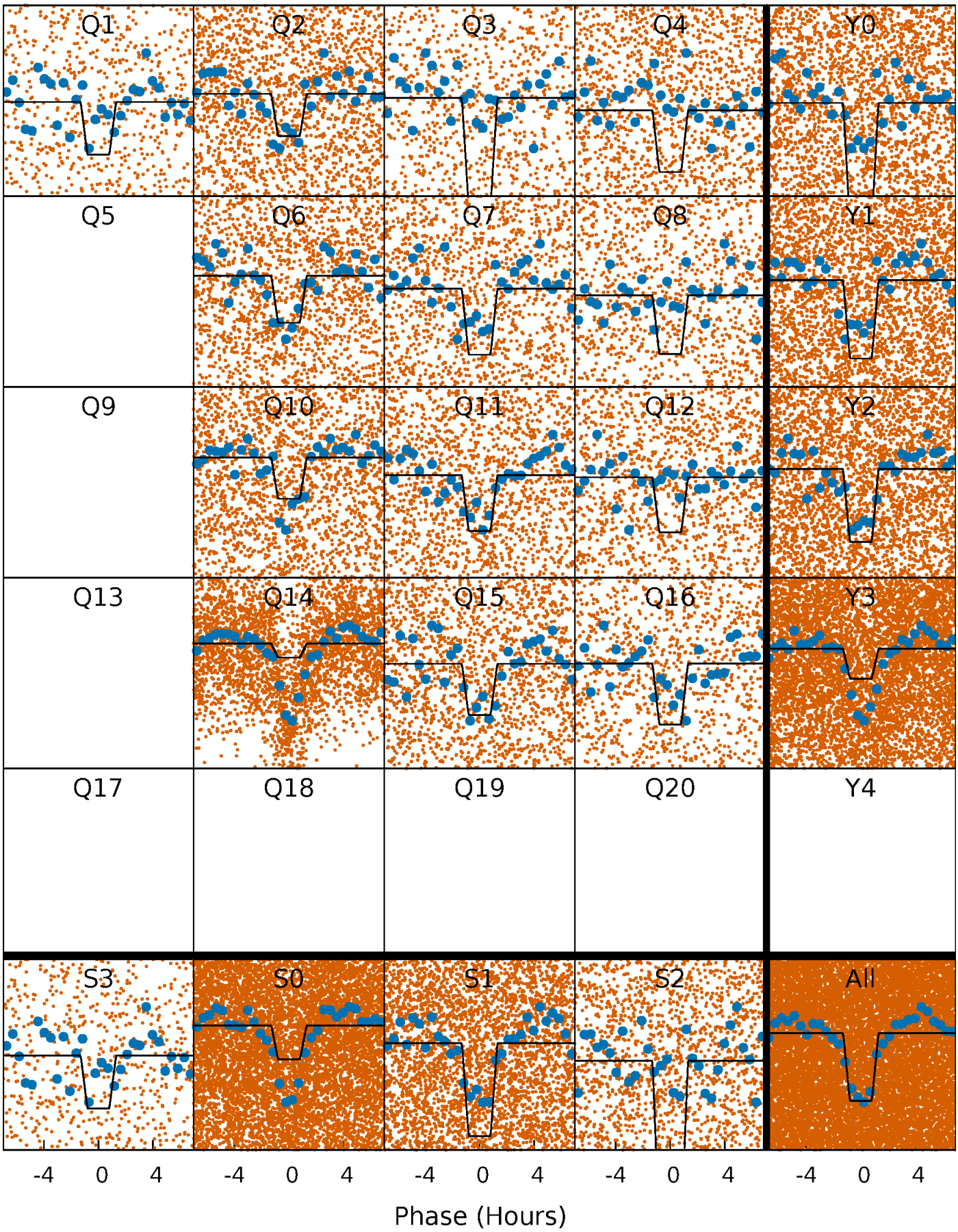


Alt. Detrend Quarter-Phased Transit Curves

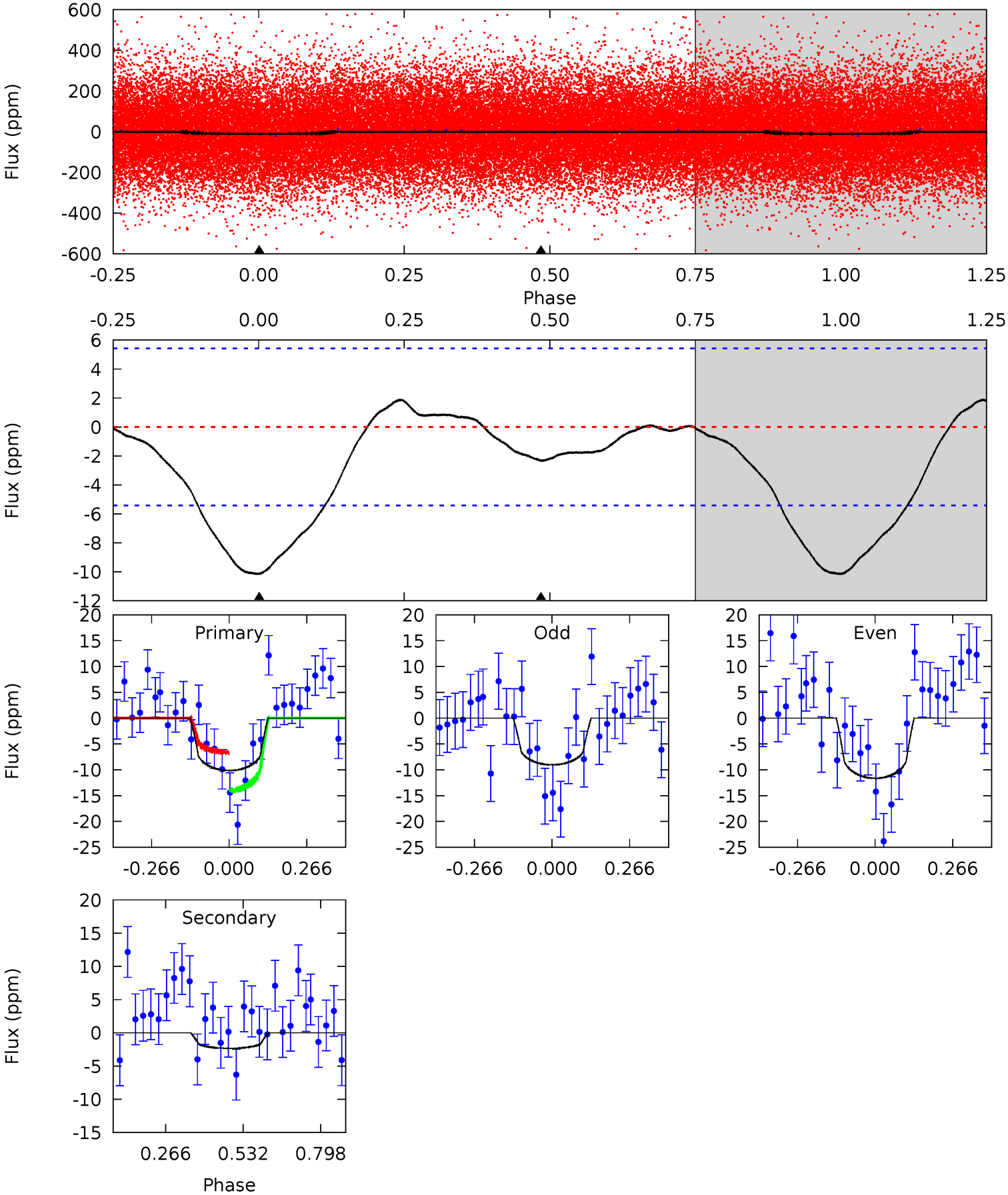
TCE 006584167-01 P= 0.733711 Days T_0=132.038993 (BKJD)



DV Model-Shift Uniqueness Test

006584167-01, P = 0.733681 Days, E = 131.320624 Days

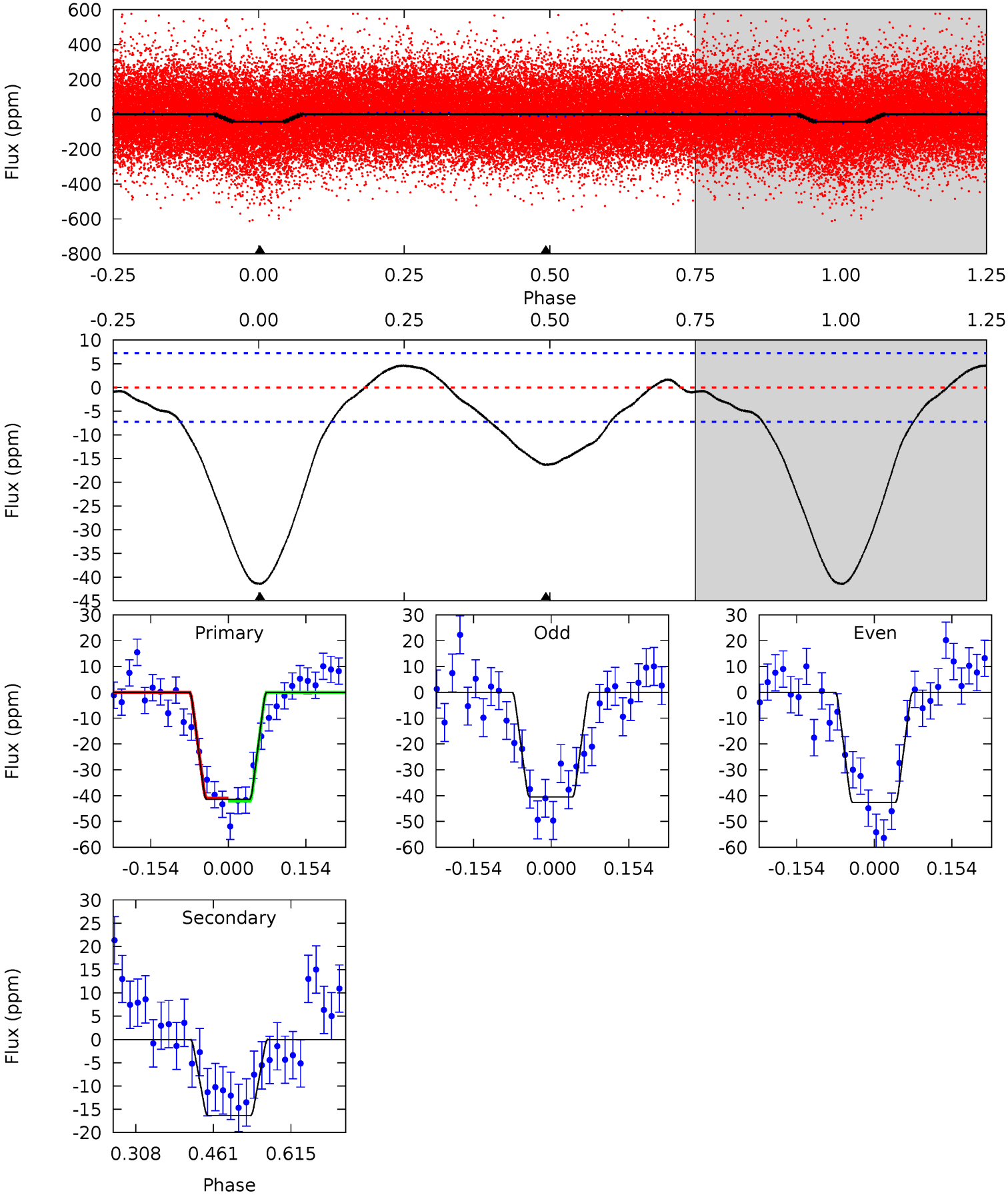
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.15	1.88	0	0	4.36	1.11	0.73	8.15	8.15	1.88	1.88	1.07	0.85	0.16	2.98



Alt Model-Shift Uniqueness Test

006584167-01, P = 0.733711 Days, E = 131.305282 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.6	10.1	0	0	4.47	1.43	1.71	25.6	25.6	10.1	10.1	0.65	1.12	0.10	0.40



Stellar Parameters For KIC 006584167

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6175^{+219}_{-219}	$4.099^{+0.344}_{-0.159}$	$-0.620^{+0.300}_{-0.300}$	$1.405^{+0.393}_{-0.524}$	$0.904^{+0.128}_{-0.096}$	$0.459^{+1.225}_{-0.215}$
	+4%/-4%	+8%/-4%	+48%/-48%	+28%/-37%	+14%/-11%	+267%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006584167-01 / KOI 6732.01

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2±1	$0.44^{+0.31}_{-0.25}$	3592^{+298}_{-362}	4212^{+2430}_{-1178}	$1.359^{+7.625}_{-0.941}$
Alt.	-16±2	$0.97^{+0.36}_{-0.34}$	3581^{+296}_{-376}	4786^{+951}_{-579}	$2.297^{+3.214}_{-1.062}$

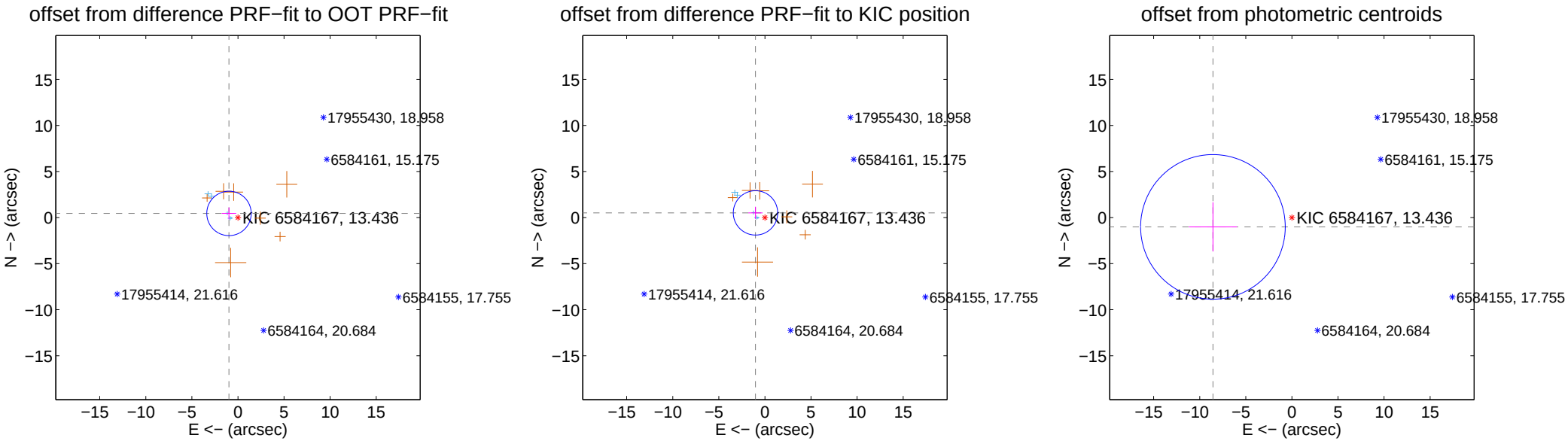
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

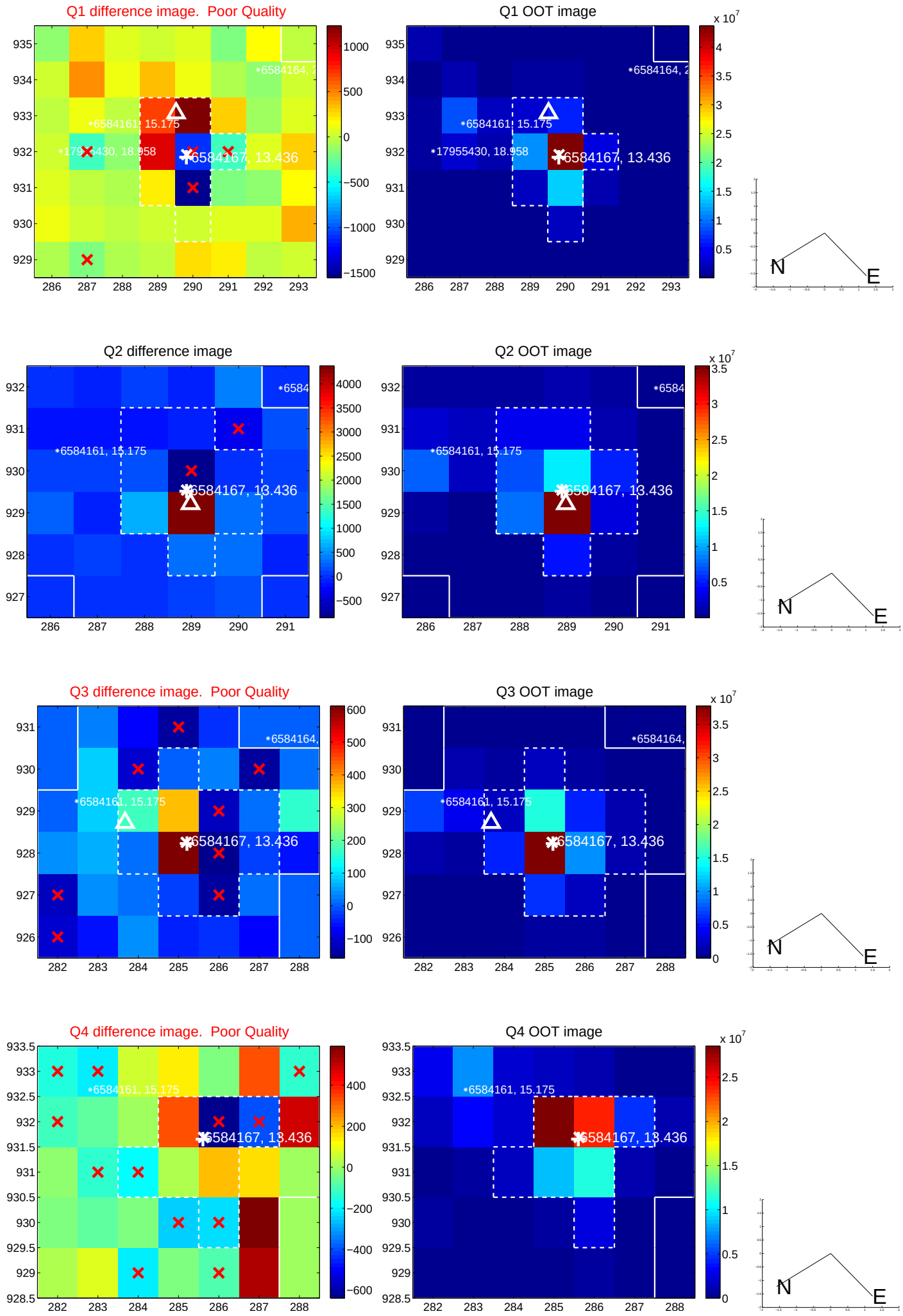
Supplemental centroid analysis for 006584167-01. Kepler magnitude: 13.44. Transit SNR 5.37
There are 5 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.072 ± 0.803	1.33	0.973 ± 0.784	0.450 ± 0.652
PRF-fit source offset from KIC position	1.143 ± 0.803	1.42	1.023 ± 0.768	0.509 ± 0.661
photometric centroid source offset	8.63 ± 2.62	3.30	8.57 ± 2.62	-1.01 ± 2.67

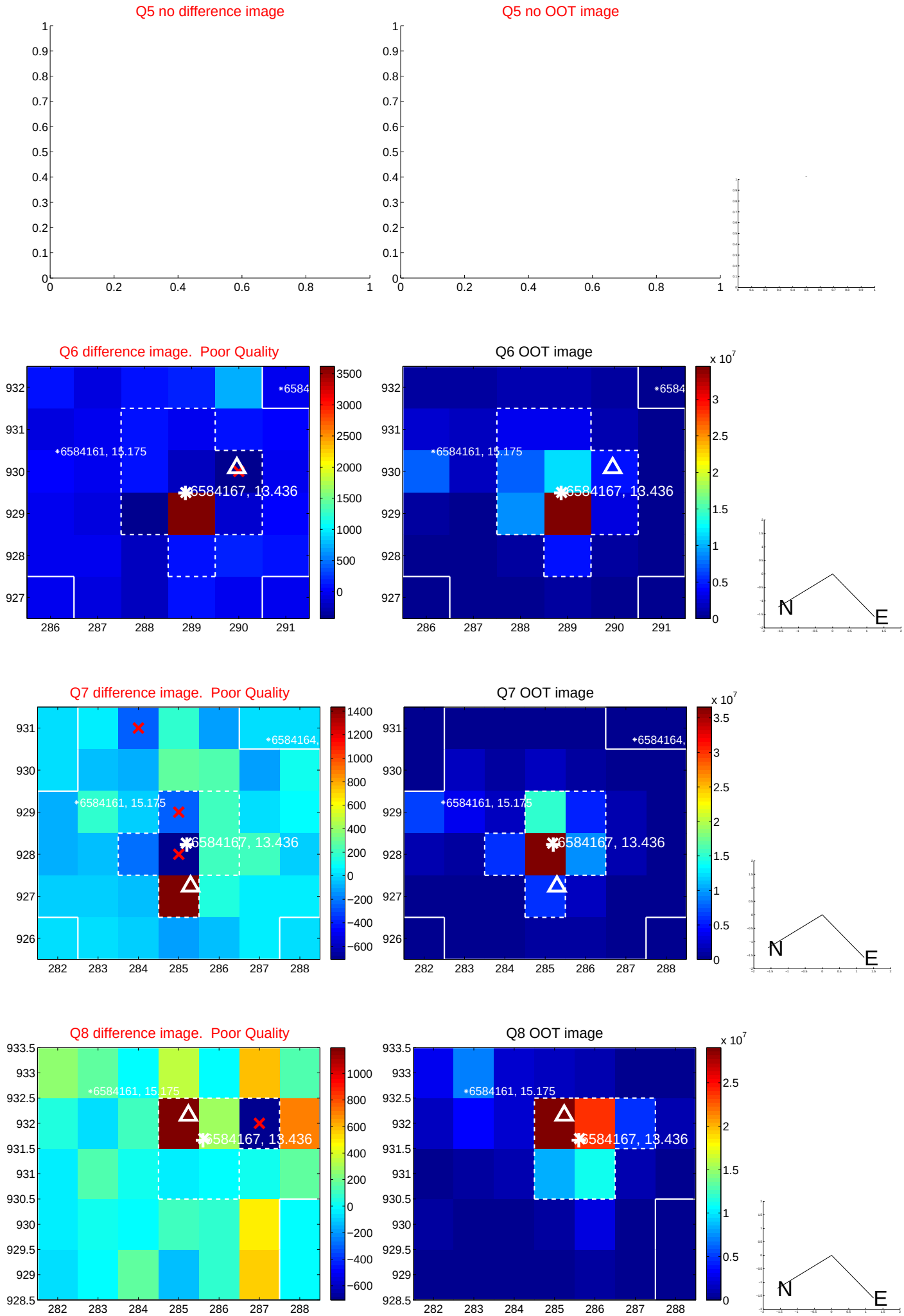


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

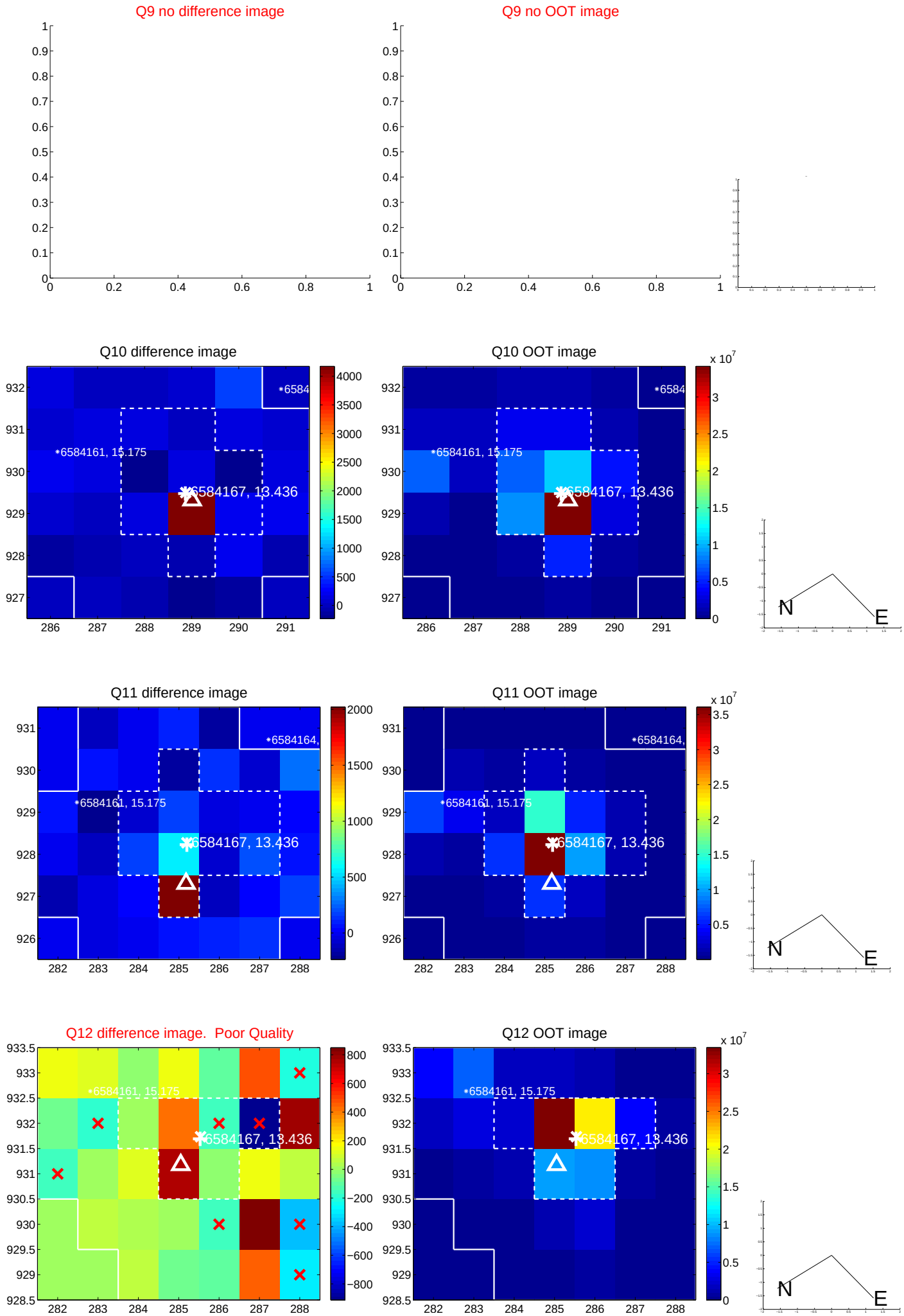
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



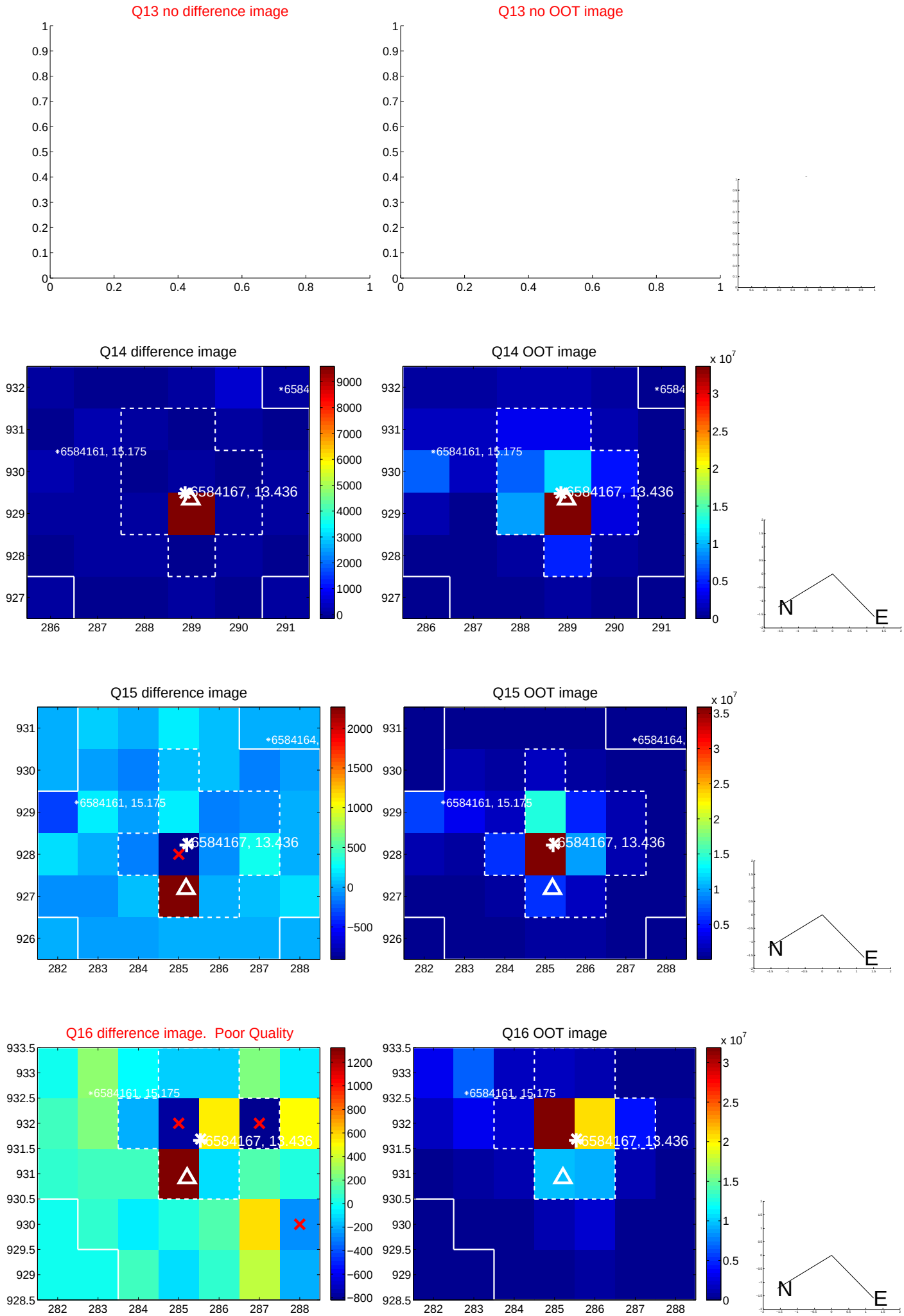
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



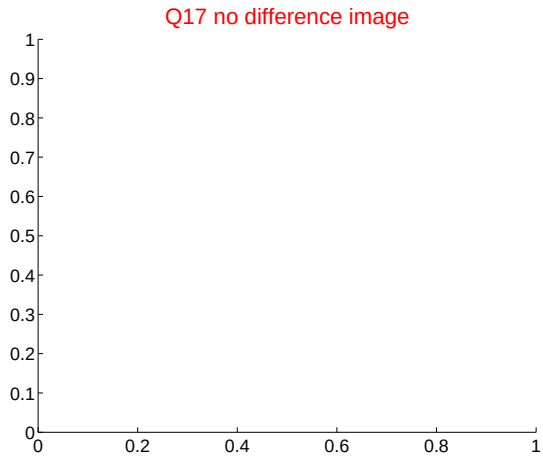
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

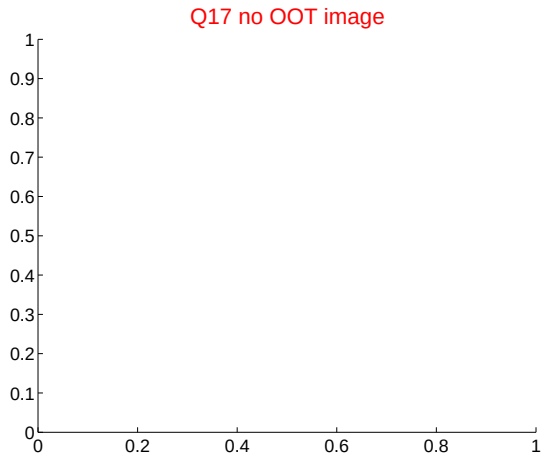


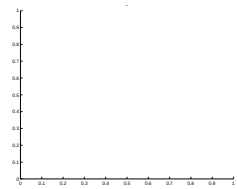
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

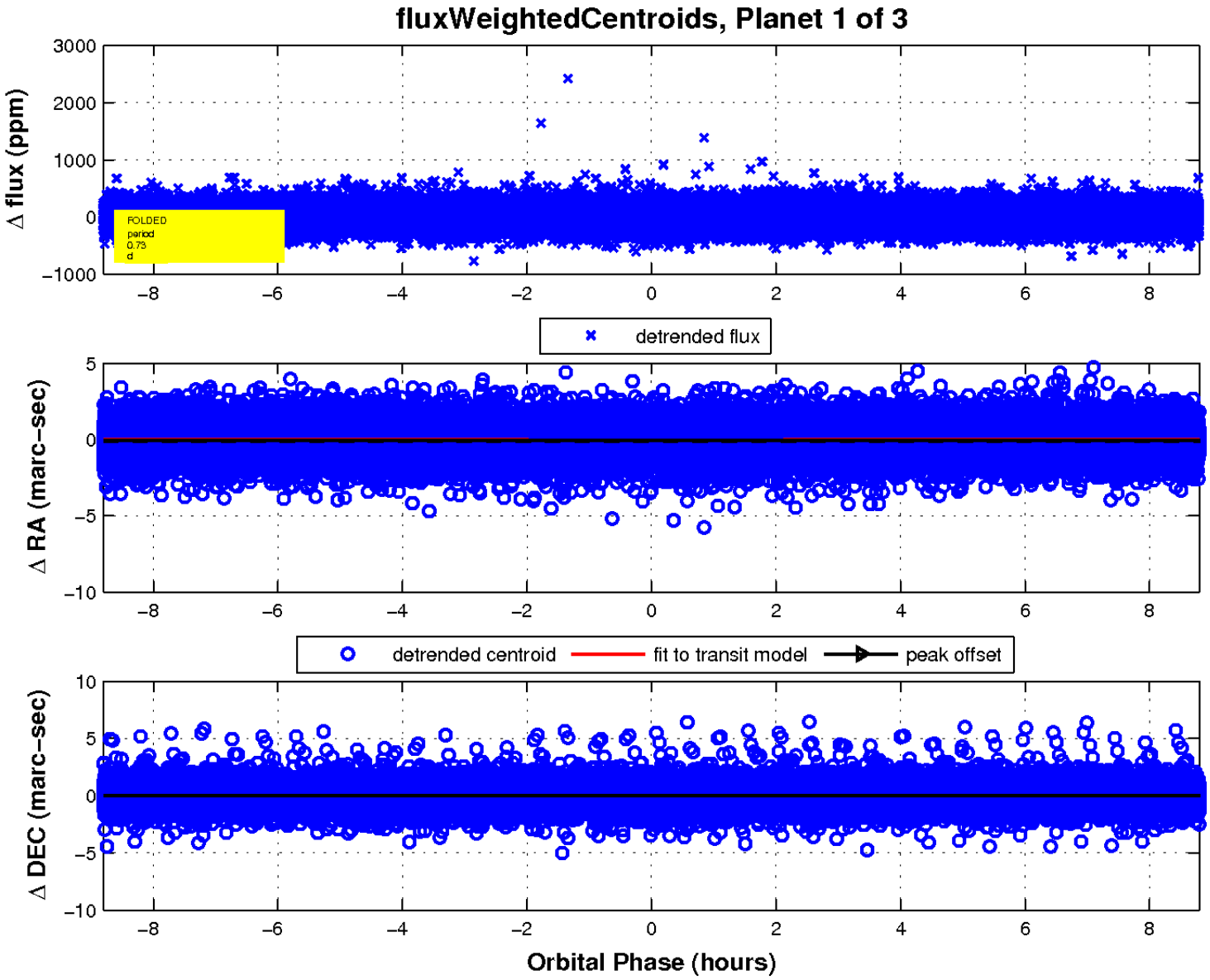


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

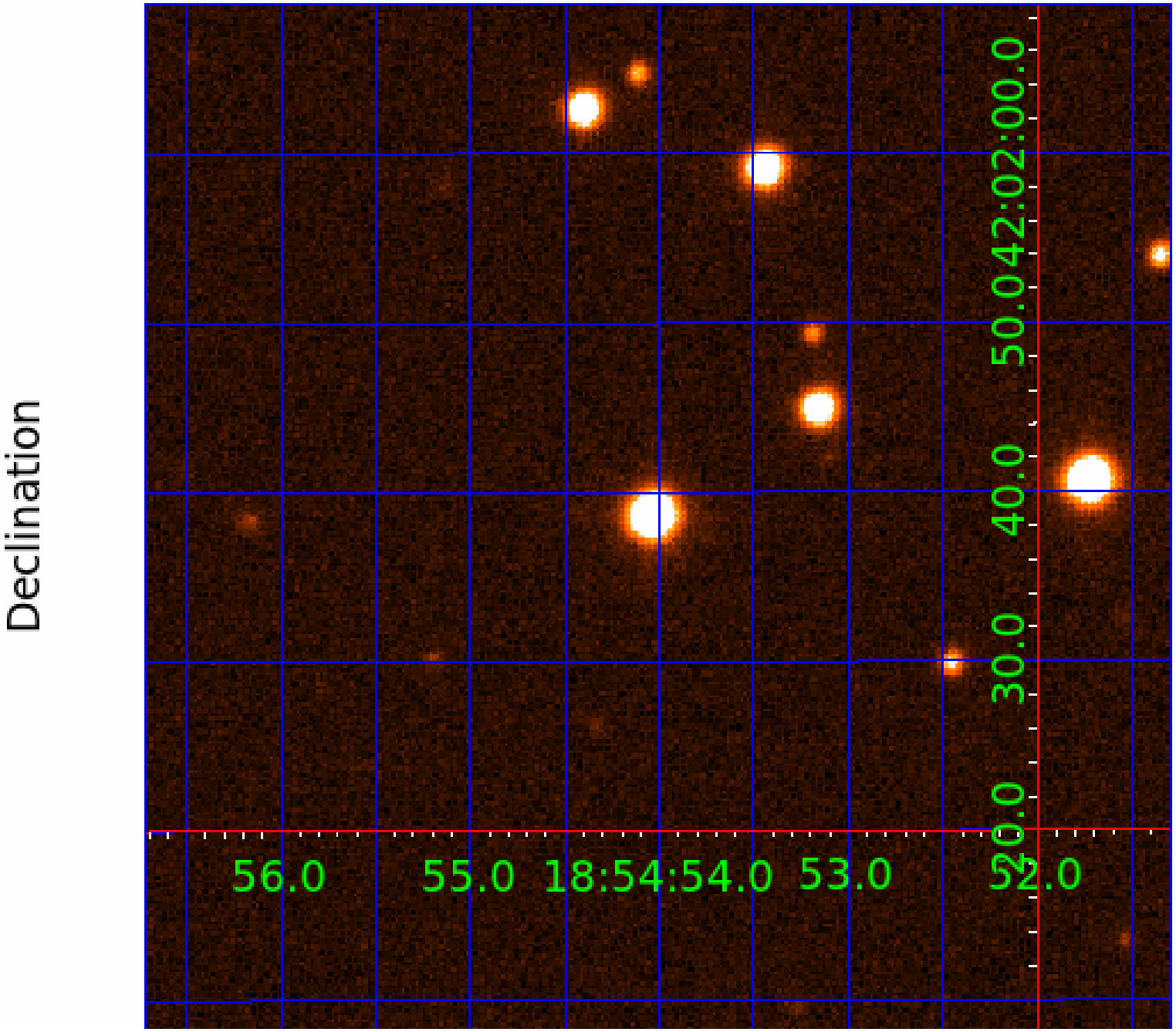








UKIRT Image



KIC 006584167

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 ($S_\oplus$)
006584167-01	OBS	6732.01	0.733681	132.054305	8.7	4.245	9.2	5.4	1.41	6175	0.43	10844.67
006584167-02	OBS	No	90.320532	140.068469	218.9	6.769	8.7	7.5	1.41	6175	3.41	17.71
006584167-03	OBS	No	575.150465	213.182865	218.8	5.028	7.6	8.4	1.41	6175	2.42	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006584167-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006584167-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
006584167-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

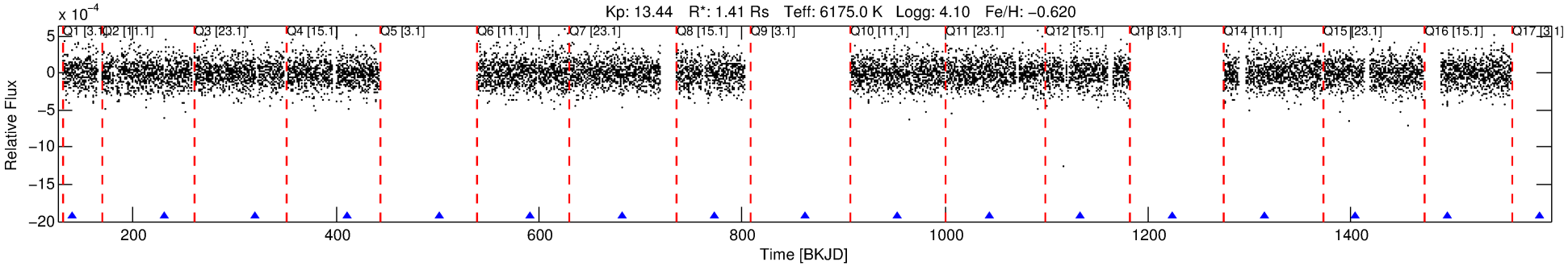
Ephemeris Match Information For 006584167-02

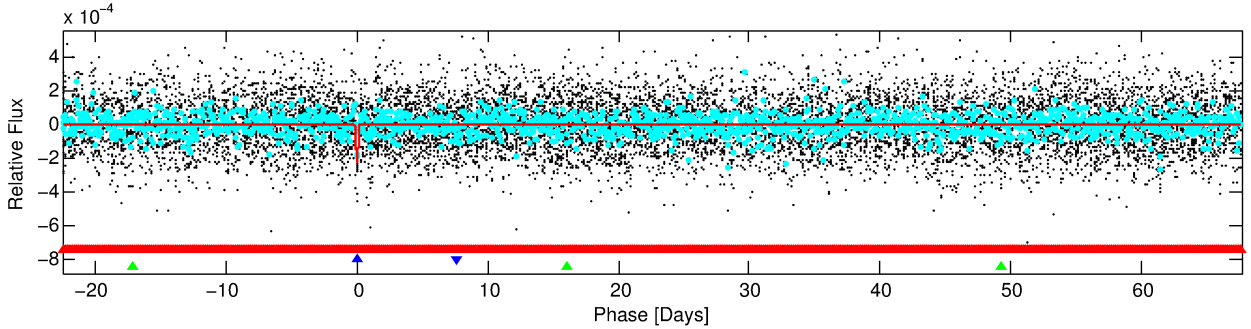
No Significant Match Found

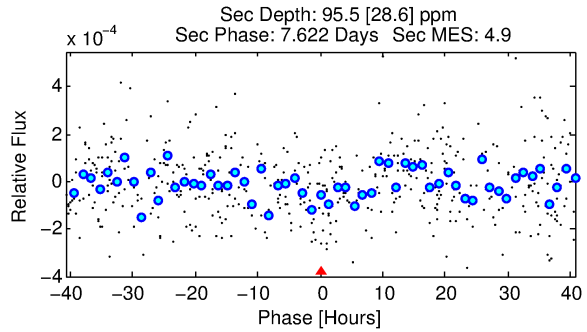
DV One-Page Summary

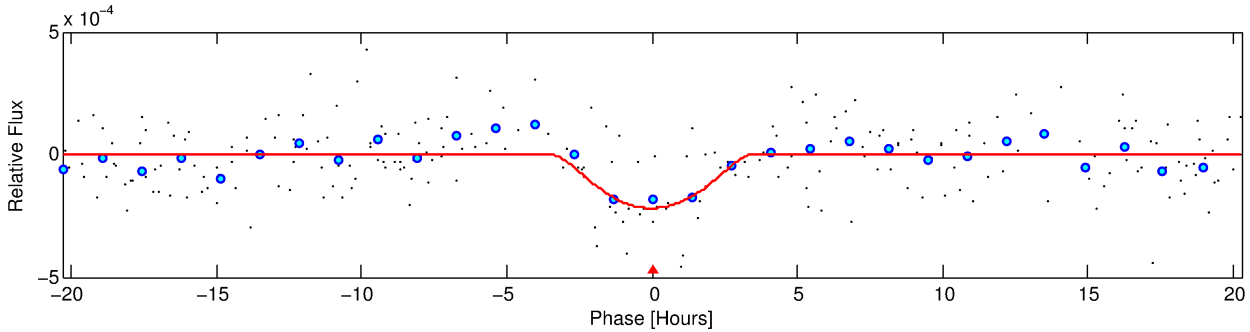
KIC: 6584167 Candidate: 2 of 3 Period: 90.321 d
KOI: K06732 Corr: No Ephemeris Match

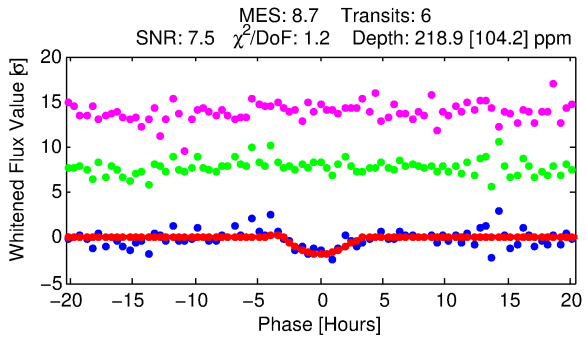
Kp: 13.44 R*: 1.41 Rs Teff: 6175.0 K Logg: 4.10 Fe/H: −0.620

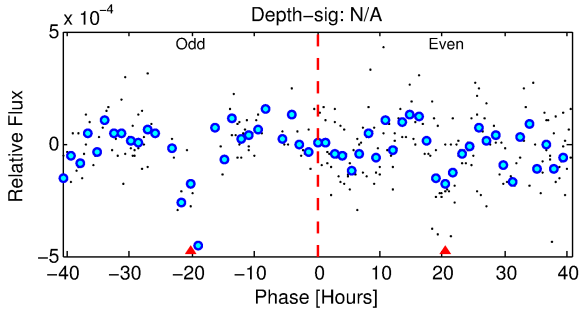


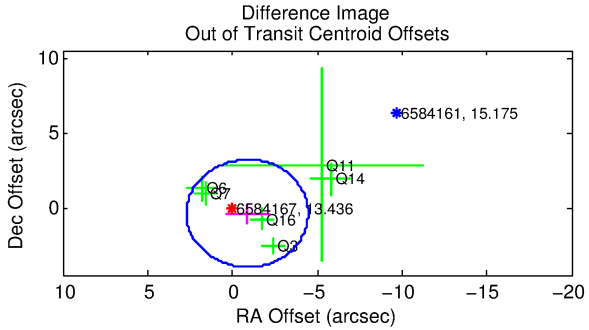












DV Fit Results:

Period = 90.32053 [0.00336] d
Epoch = 140.0685 [0.0339] BKJD
Rp/R* = 0.0223 [0.0594]
a/R* = 25.00 [25.65]
b = 0.99 [0.11]

Seff = 17.71 [10.64]
Teq = 523 [79] K
Rp = 3.41 [9.19] Re
a = 0.3811 [0.1382] AU

Ag = 655.25 [3520.89] [0.19σ]
Teffp = 4092 [5466] K [0.65σ]

DV Diagnostic Results:

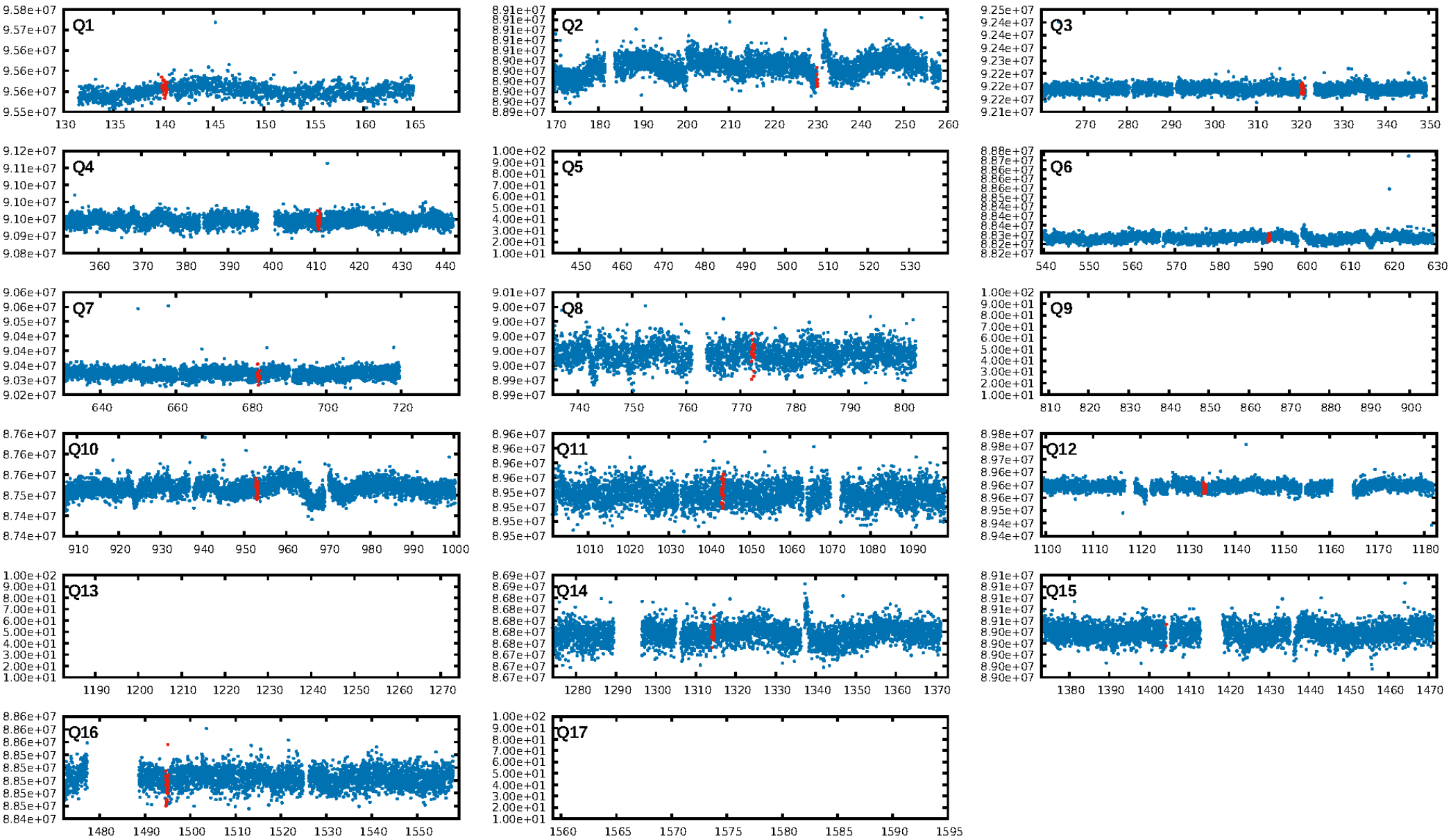
ShortPeriod−sig: 100.0% [269.10σ]
LongPeriod−sig: 100.0% [1379.98σ]
ModelChiSquare2−sig: 3.7%
ModelChiSquareGof−sig: 100.0%
Bootstrap−pfa: 1.02e−10
RollingBand−fgt: 1.00 [6/6]
GhostDiagnostic−chr: −1.023

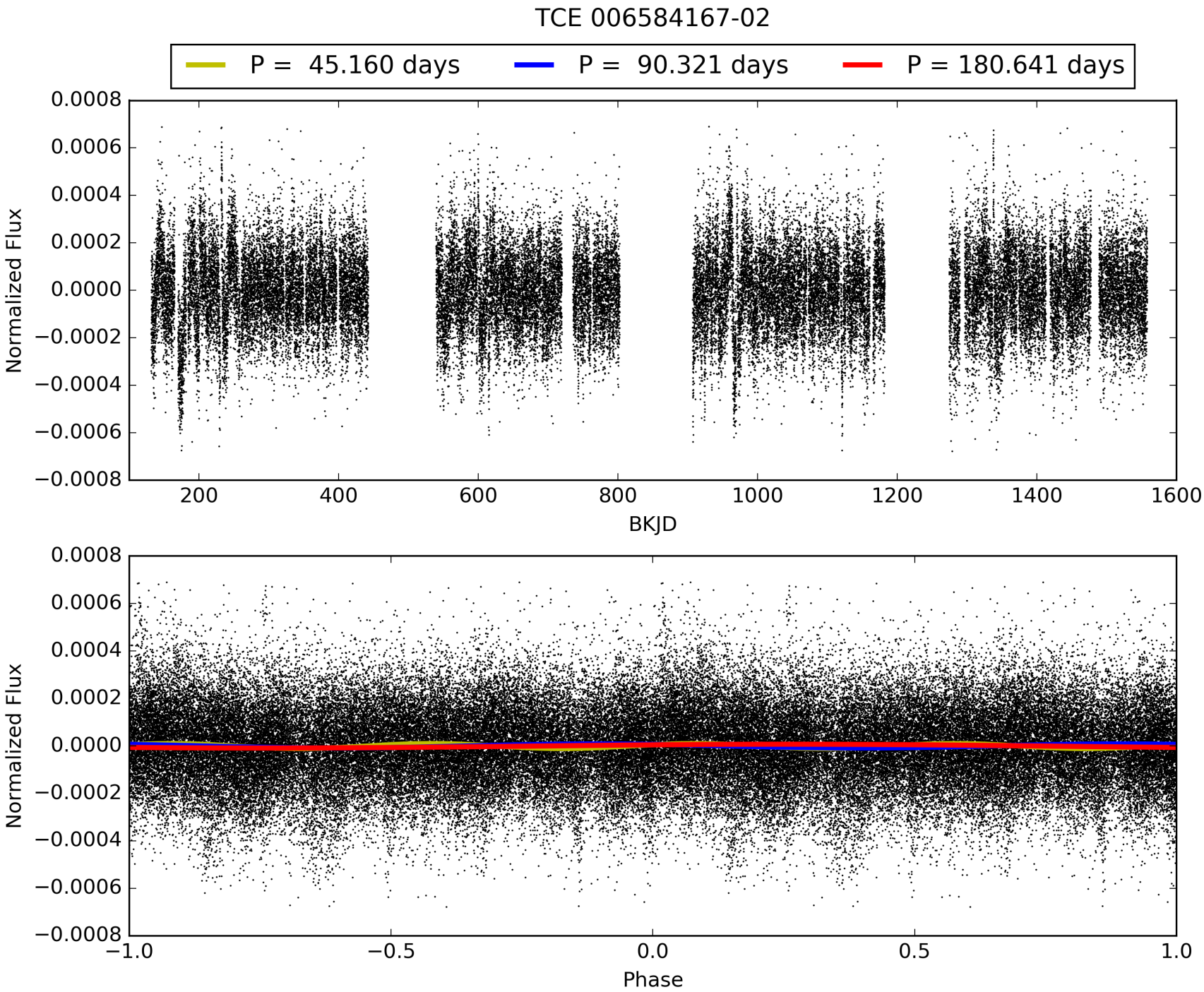
Centroid−sig: 23.0%
Centroid−so: 1.736 arcsec [1.41σ]
OotOffset−rm: 0.961 arcsec [0.80σ]
KicOffset−rm: 0.859 arcsec [0.77σ]
OotOffset−st: 2/3/1/0 [6]
KicOffset−st: 2/3/1/0 [6]
DiffImageQuality−fgm: 0.33 [2/6]
DiffImageOverlap−fno: 0.00 [0/10]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 01−Feb−2016 07:37:14 Z

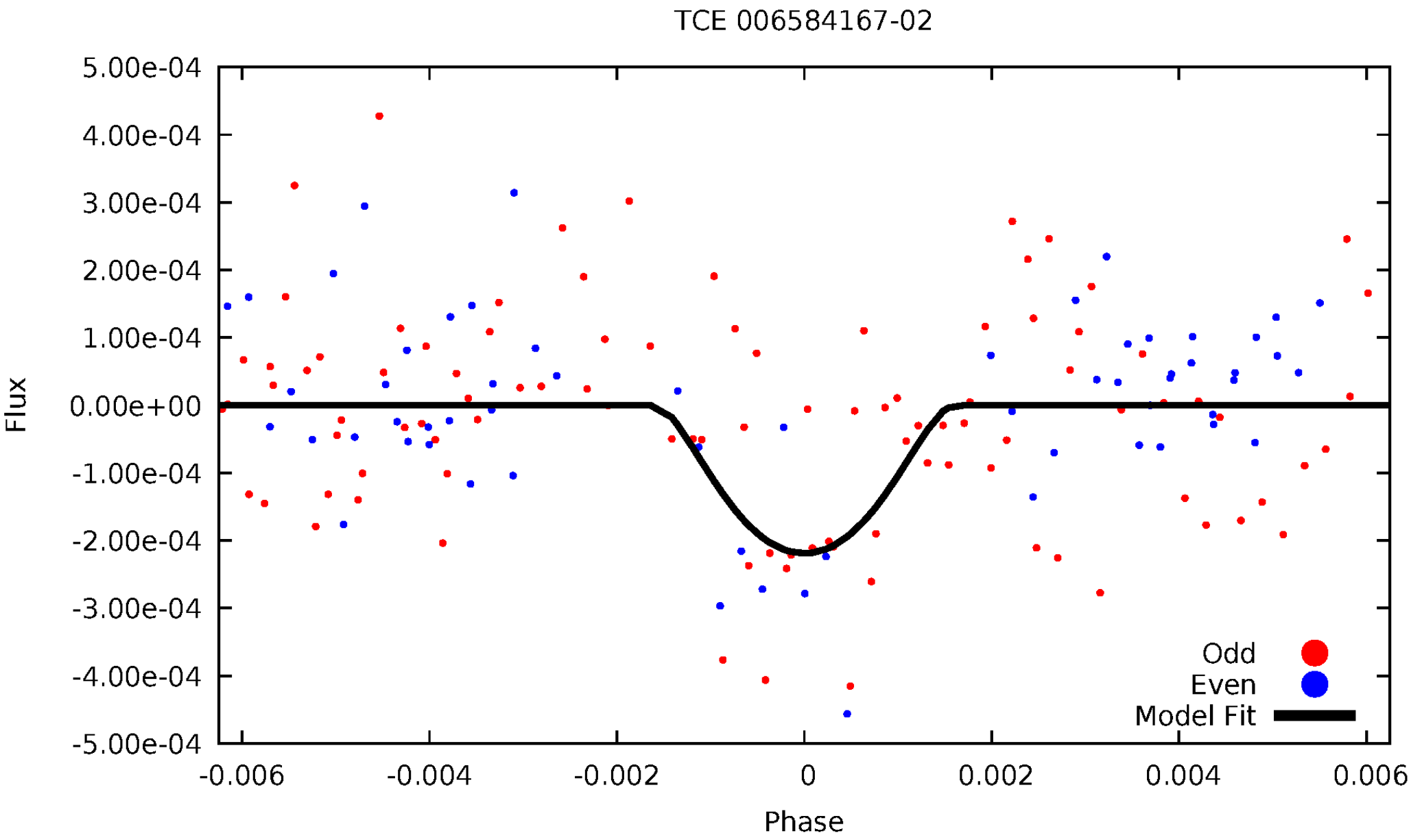
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006584167-02, PDC Light Curves

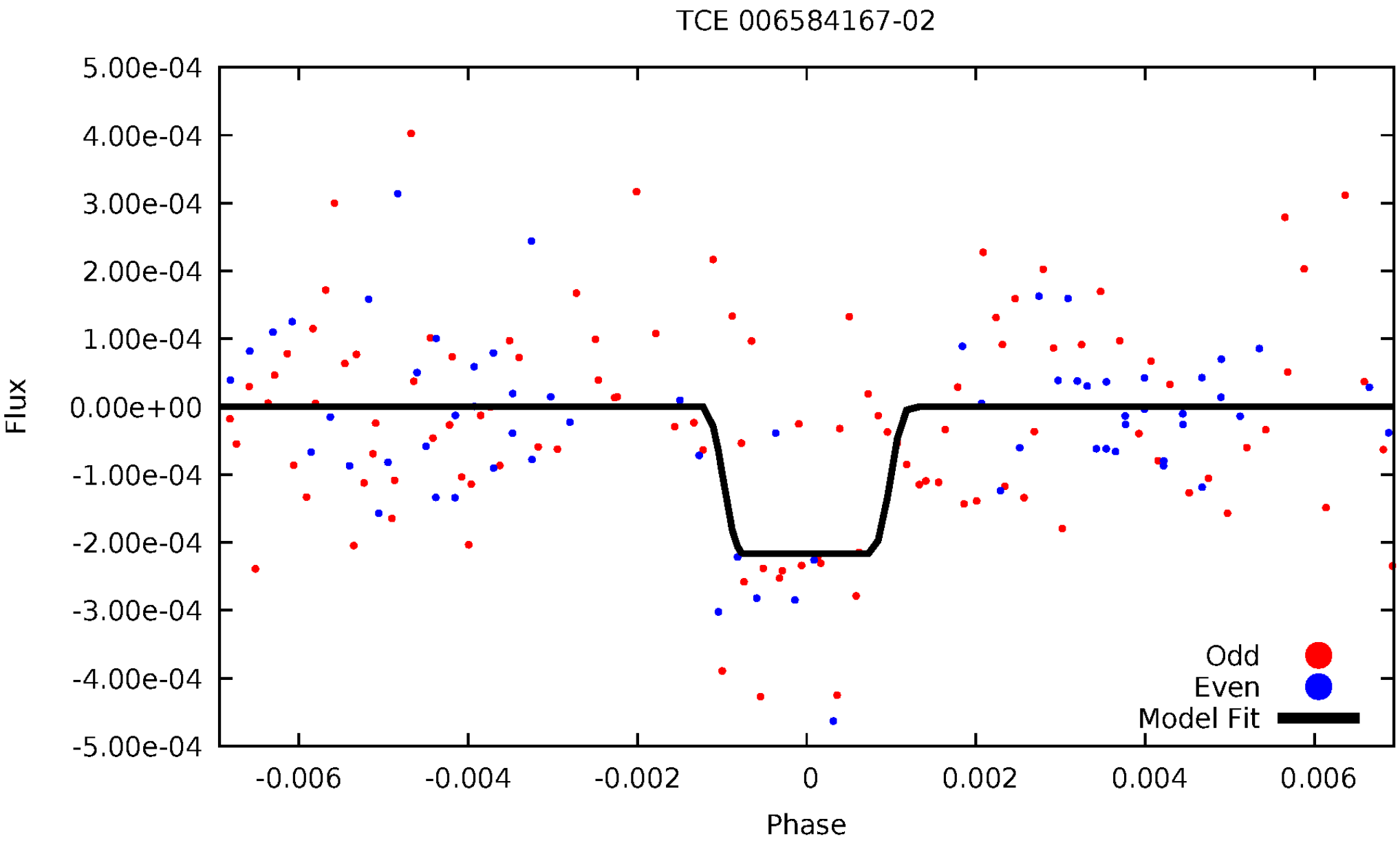



TCE 006584167-02
P = 45.160 days
P = 90.321 days
P = 180.641 days
Normalized Flux
BKJD
Normalized Flux
Phase

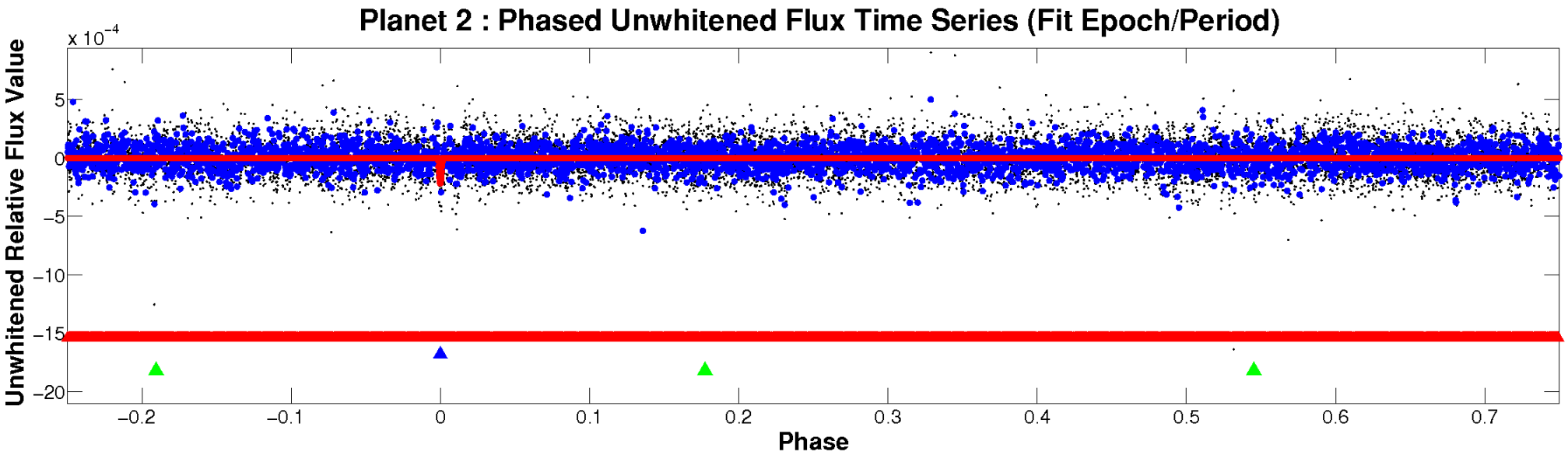
DV Odd/Even

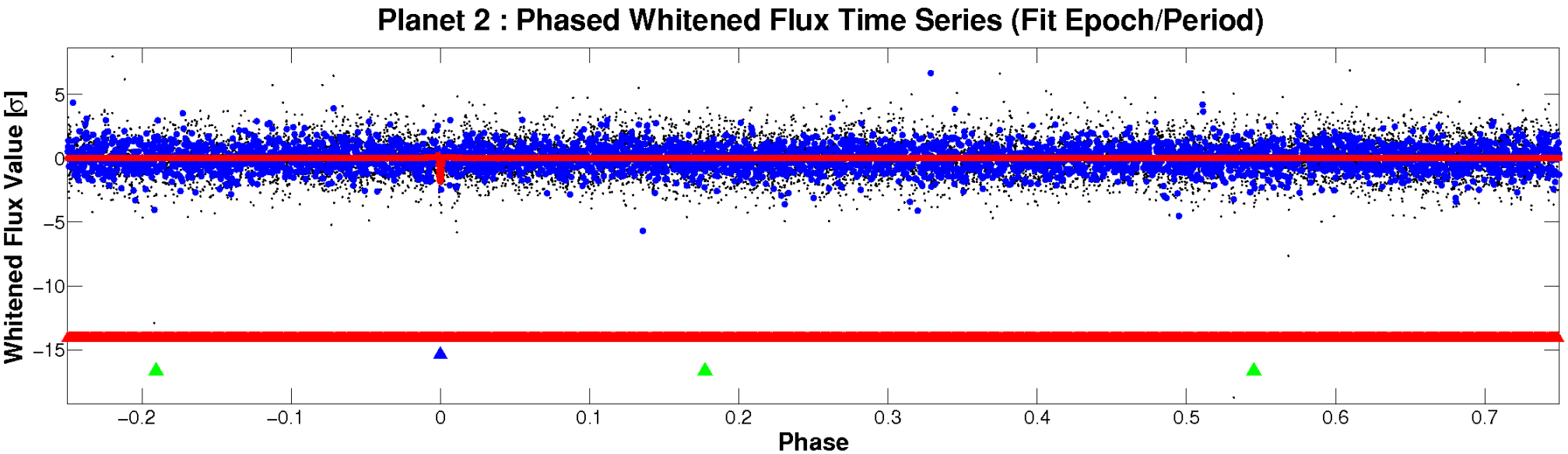

TCE 006584167-02
5.00e-04
4.00e-04
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
-5.00e-04
Flux
-0.006
-0.004
-0.002
0
0.002
0.004
0.006
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006584167-02
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
-0.006
-0.004
-0.002
0
0.002
0.004
0.006
Phase
Odd
Even
Model Fit

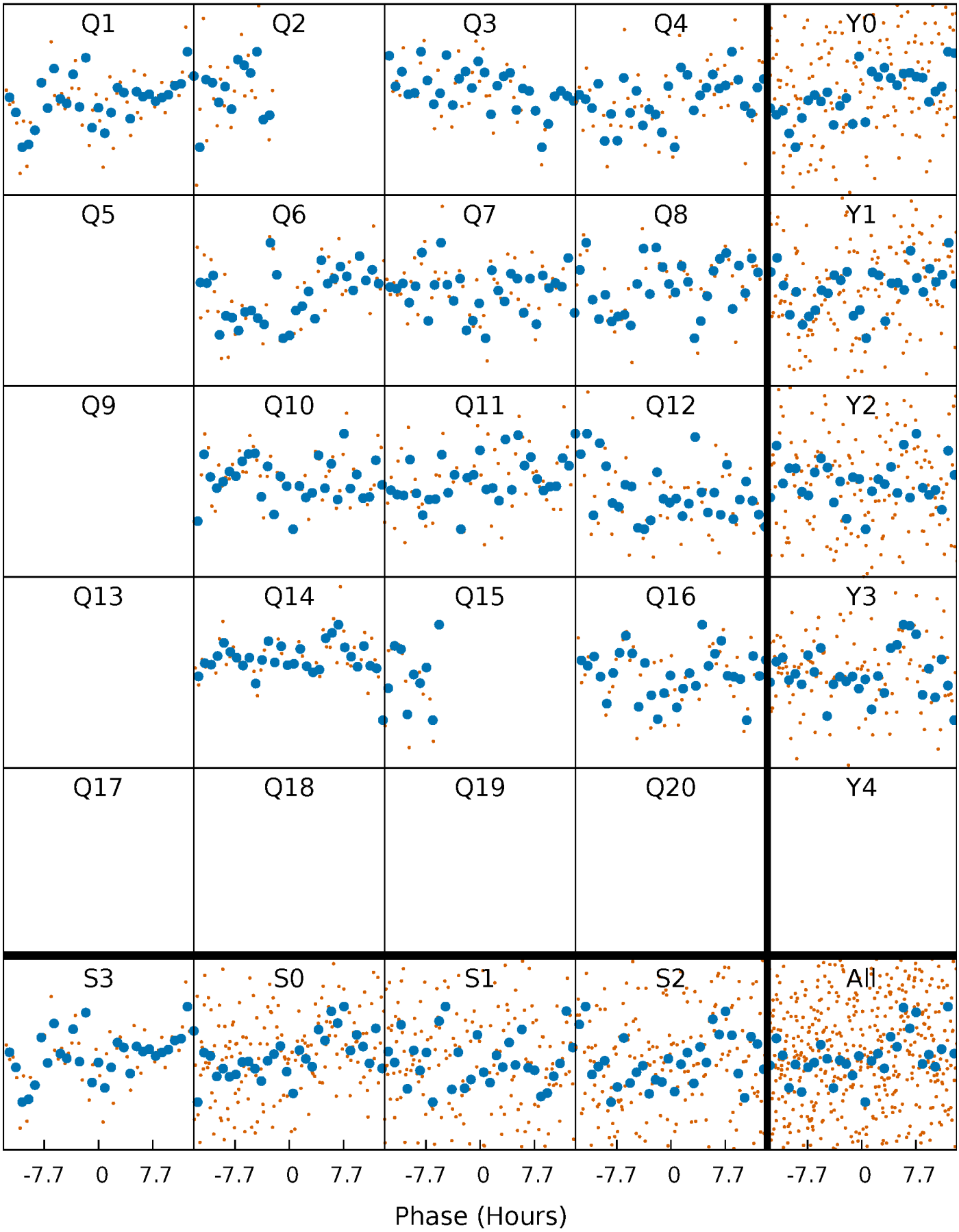
Non-Whitened Vs. Whitened Light Curve





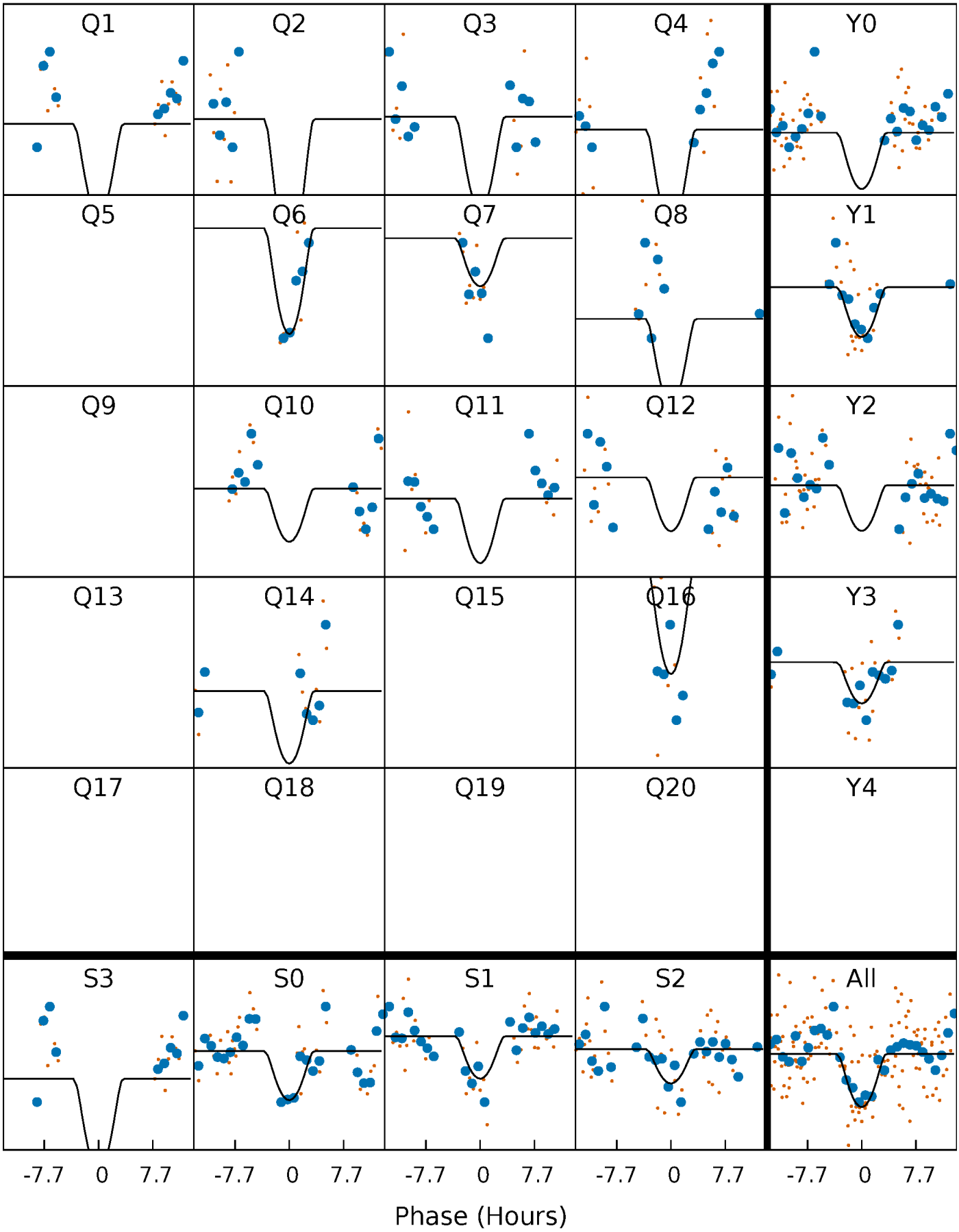
PDC Quarter-Phased Transit Curves

TCE 006584167-02 P= 90.320532 Days T_0=140.068469 (BKJD)



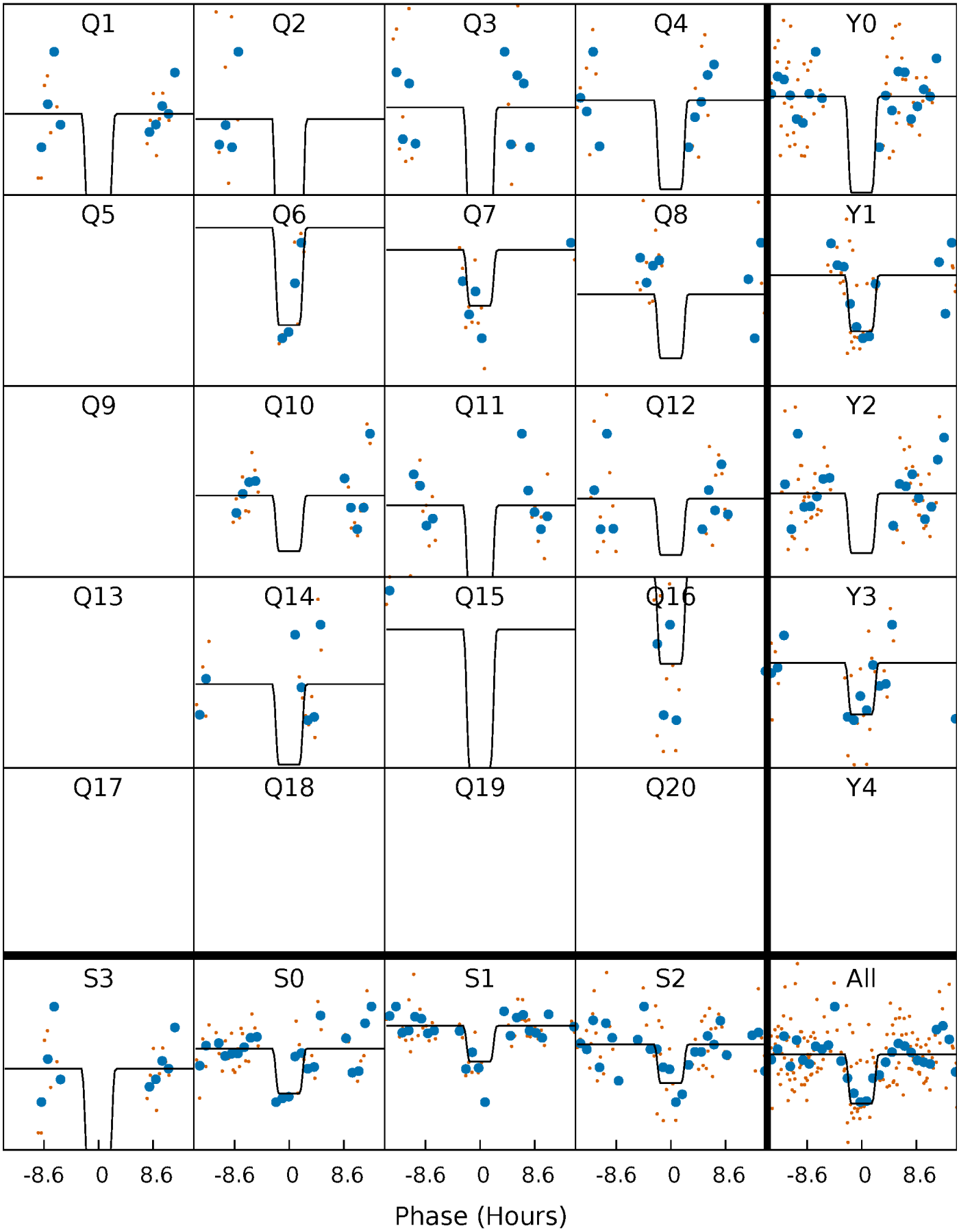
DV Quarter-Phased Transit Curves

TCE 006584167-02 P= 90.320532 Days T_0=140.068469 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

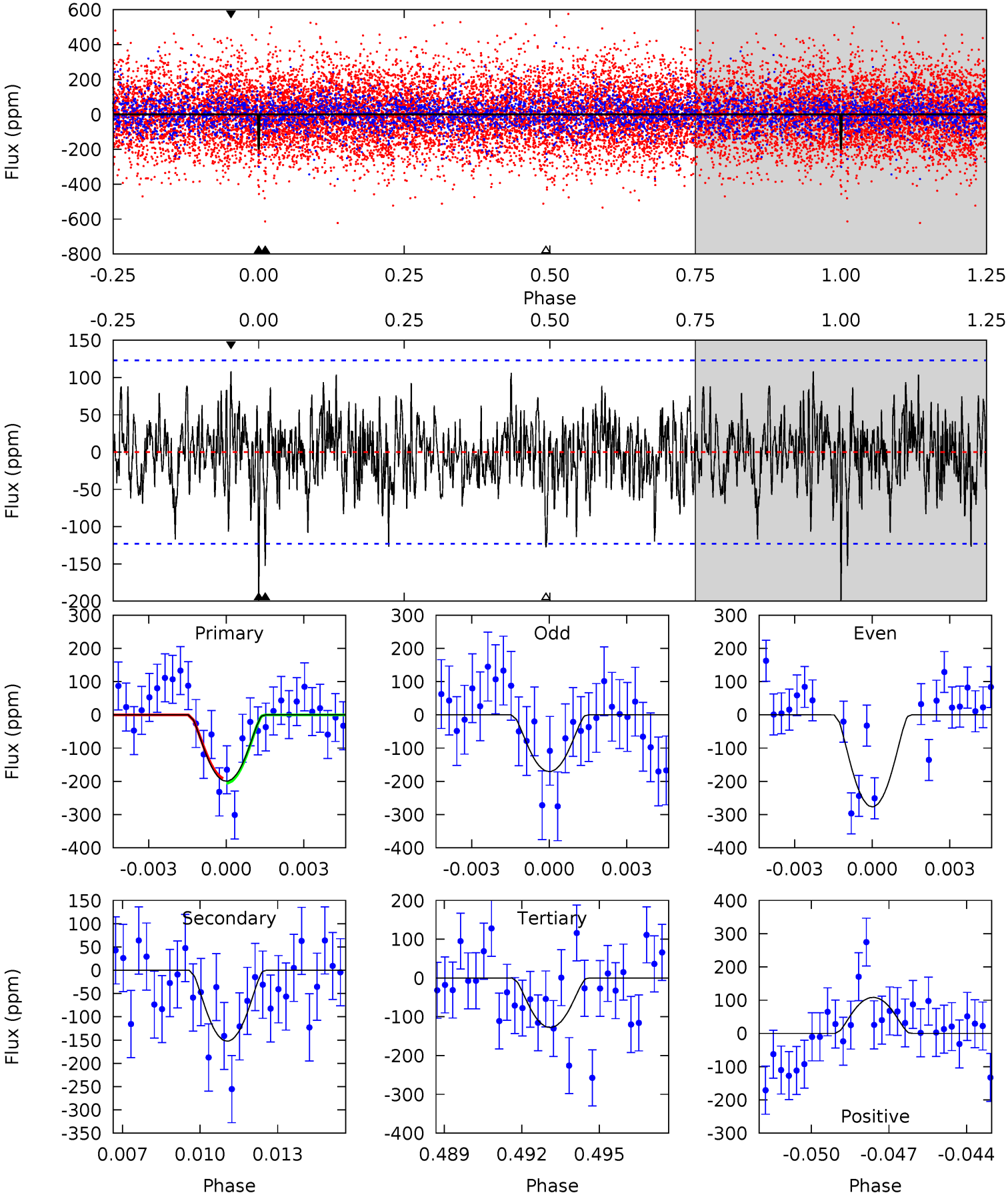
TCE 006584167-02 P= 90.320392 Days T_0=140.082317 (BKJD)



DV Model-Shift Uniqueness Test

006584167-02, P = 90.320532 Days, E = 49.747937 Days

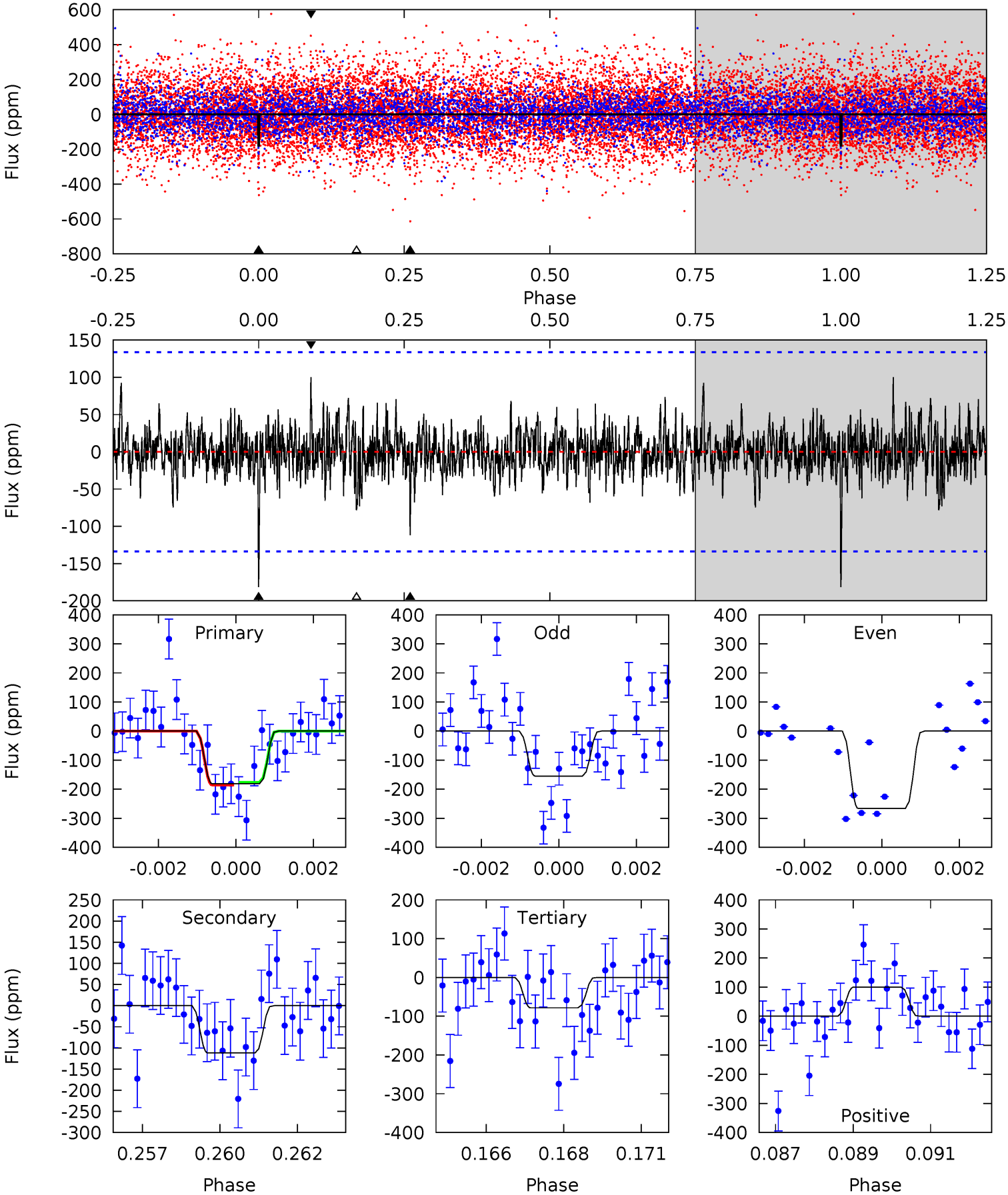
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.49	6.48	5.43	4.60	5.23	2.93	1.53	3.06	3.89	1.06	1.88	1.94	0.56	0.35	0.30



Alt Model-Shift Uniqueness Test

006584167-02, P = 90.320392 Days, E = 49.761925 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.17	4.43	3.10	3.96	5.29	3.04	0.92	4.08	3.21	1.33	0.47	1.90	0.56	0.36	0.17



Stellar Parameters For KIC 006584167

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6175^{+219}_{-219}	$4.099^{+0.344}_{-0.159}$	$-0.620^{+0.300}_{-0.300}$	$1.405^{+0.393}_{-0.524}$	$0.904^{+0.128}_{-0.096}$	$0.459^{+1.225}_{-0.215}$
	+4%/-4%	+8%/-4%	+48%/-48%	+28%/-37%	+14%/-11%	+267%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006584167-02 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-152±24	$6.83^{+7.54}_{-4.48}$	719^{+61}_{-71}	3582^{+1913}_{-670}	267^{+1881}_{-209}
Alt.	-112±25	$6.48^{+6.94}_{-4.45}$	724^{+59}_{-71}	3465^{+1917}_{-613}	209^{+1955}_{-161}

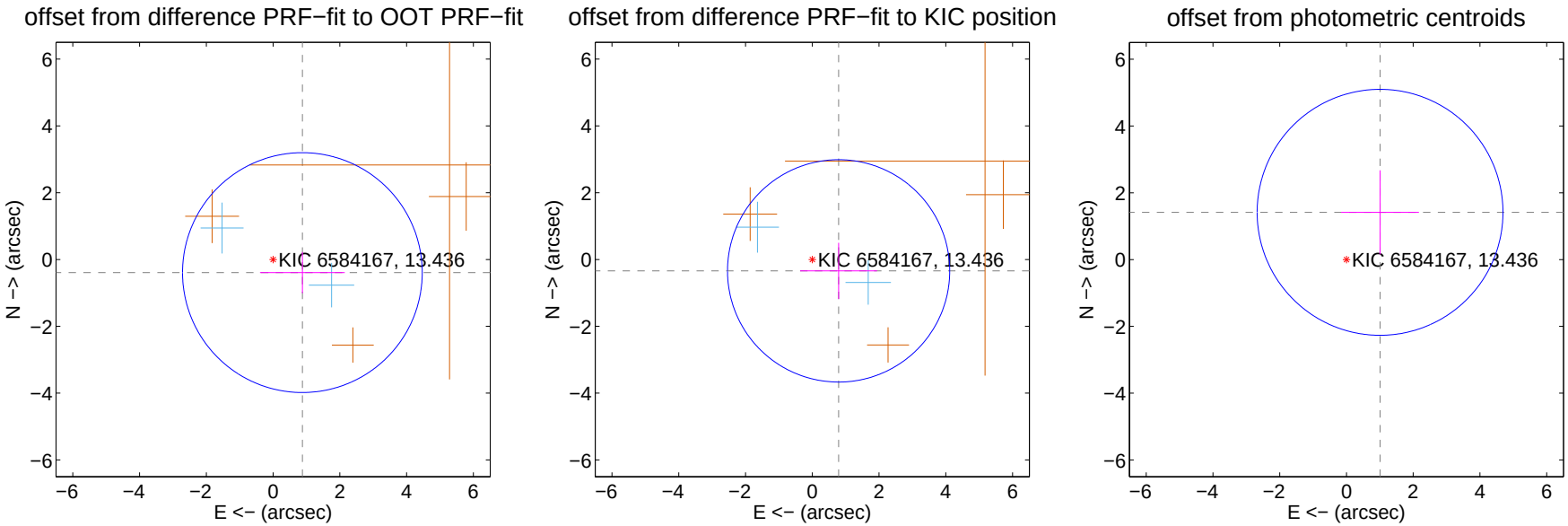
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

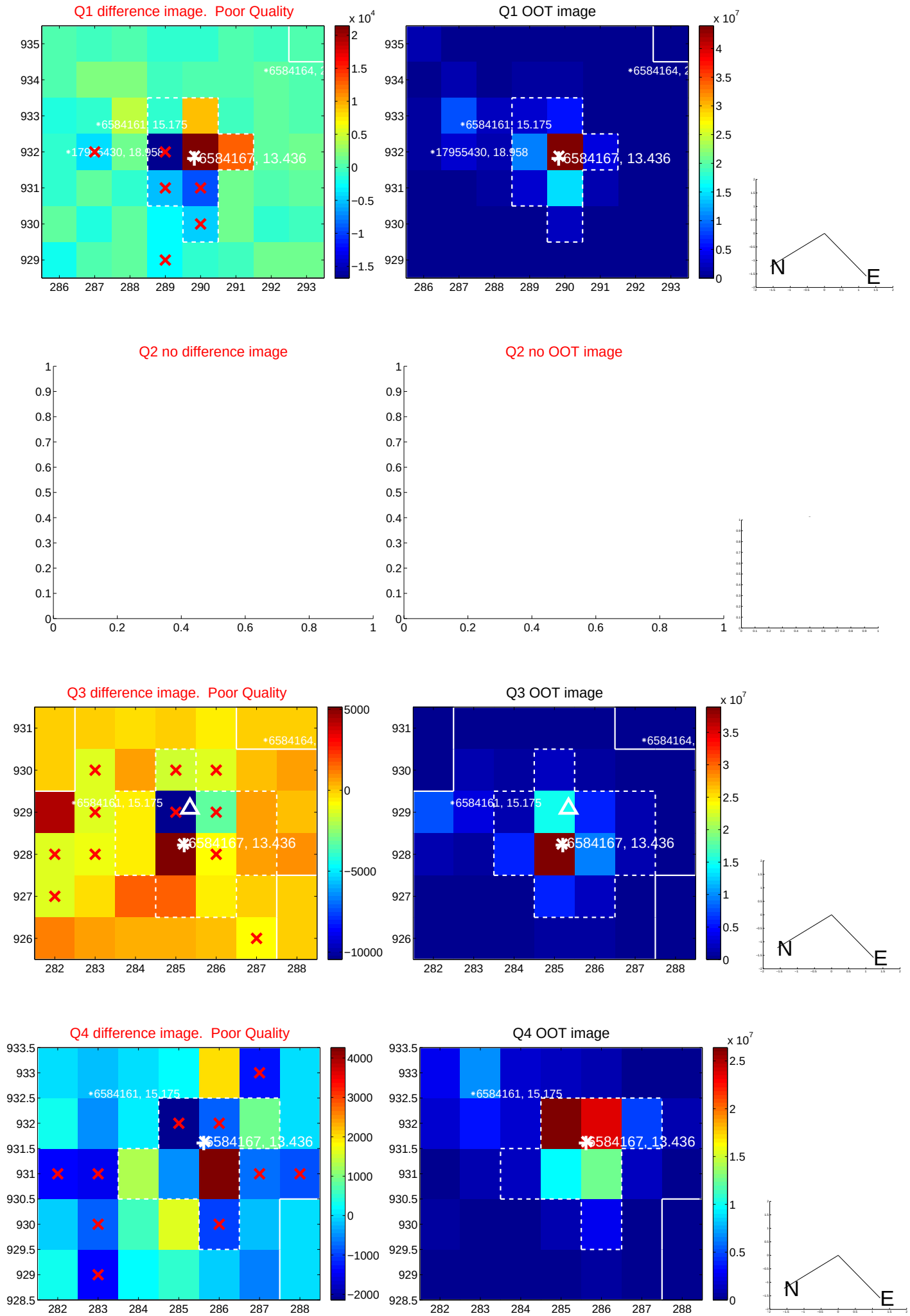
Supplemental centroid analysis for 006584167-02. Kepler magnitude: 13.44. Transit SNR 7.46
There are 2 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.11 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.961 ± 1.197	0.80	-0.878 ± 1.270	-0.392 ± 0.615
PRF-fit source offset from KIC position	0.859 ± 1.109	0.77	-0.789 ± 1.152	-0.341 ± 0.842
photometric centroid source offset	1.74 ± 1.23	1.41	-1.01 ± 1.16	1.41 ± 1.26

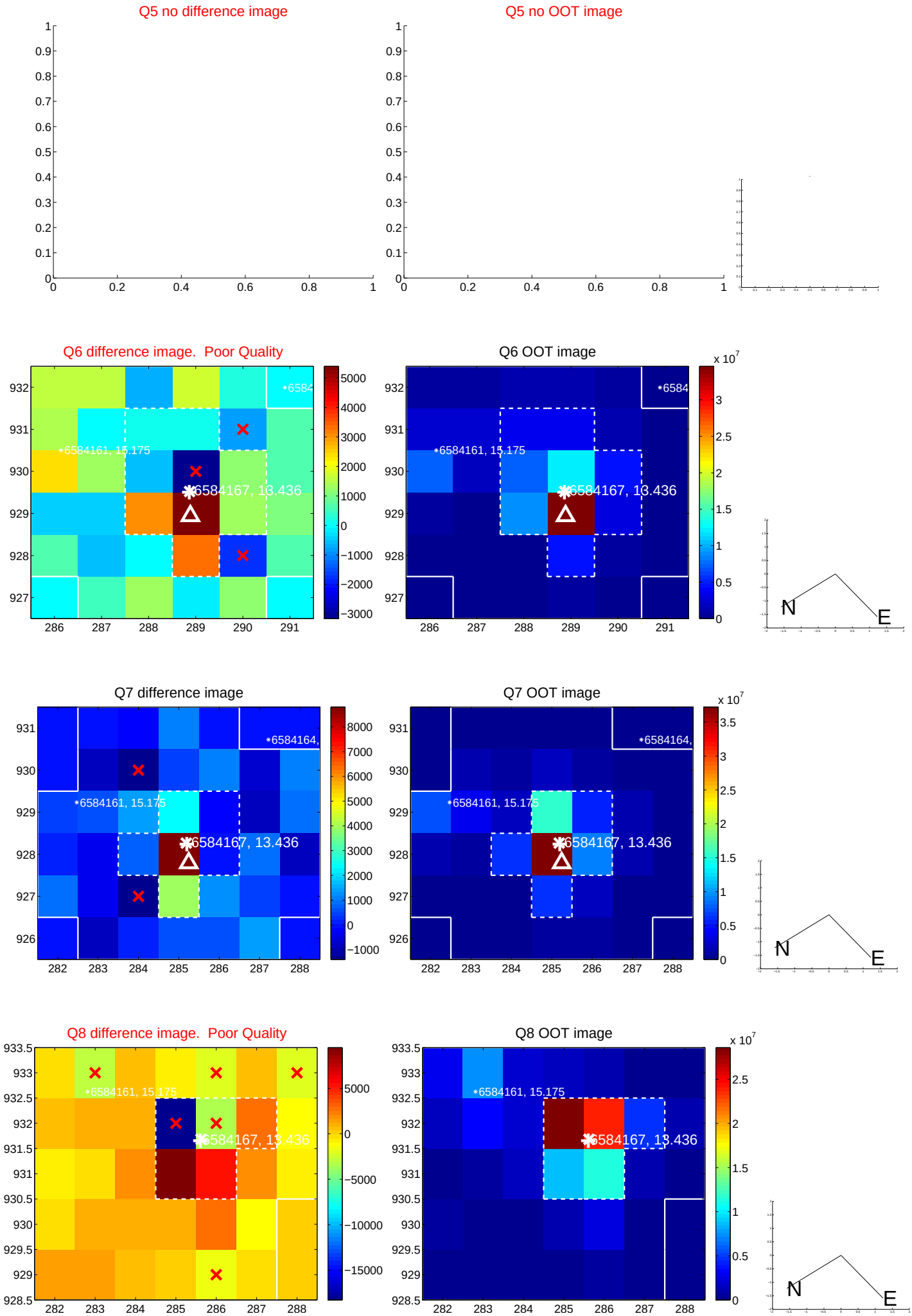


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

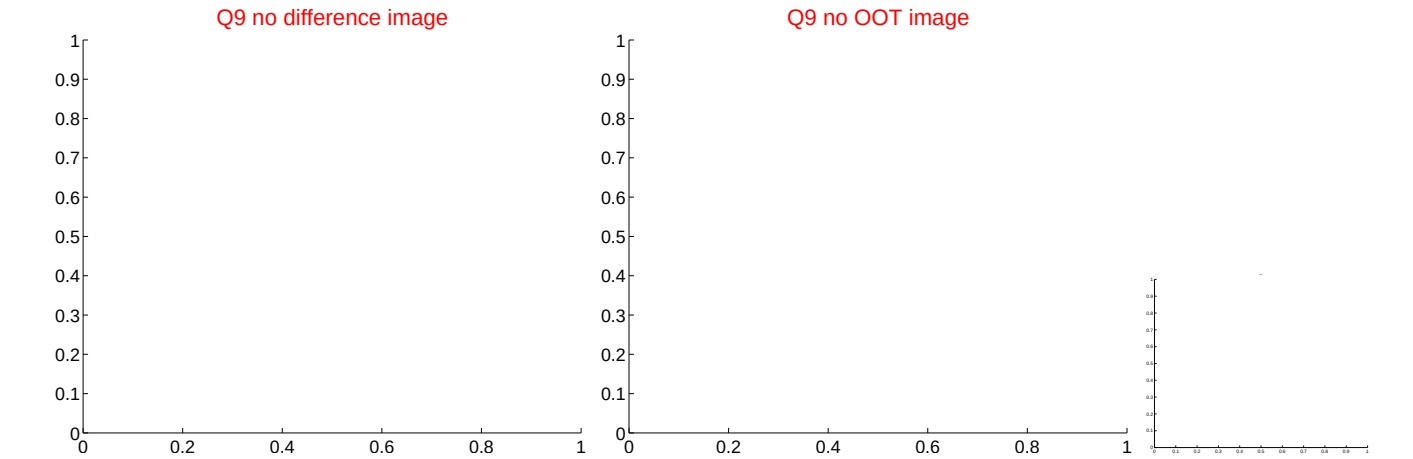
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

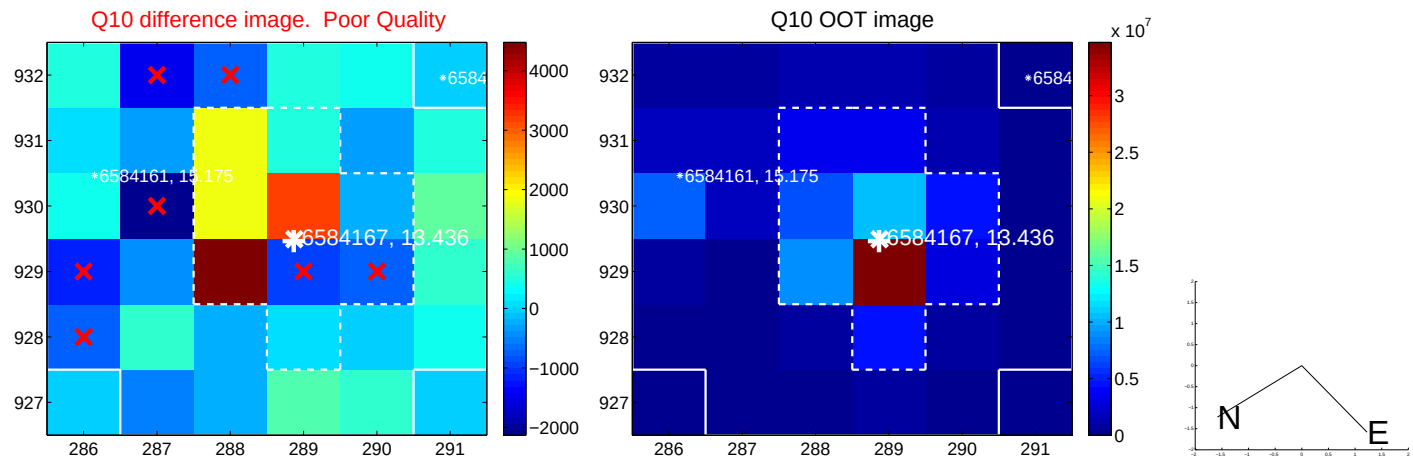


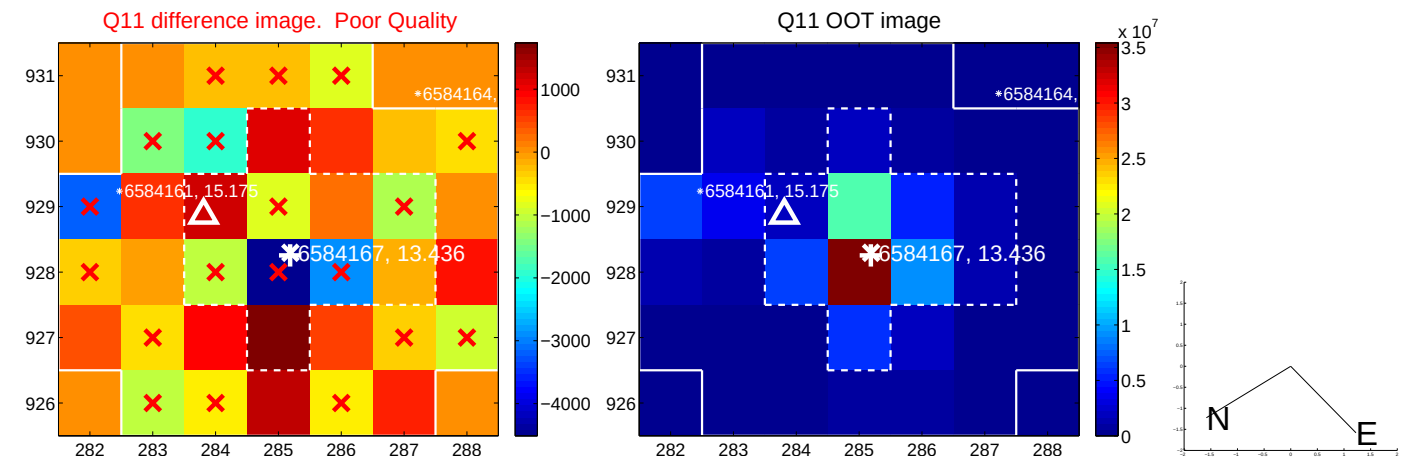
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

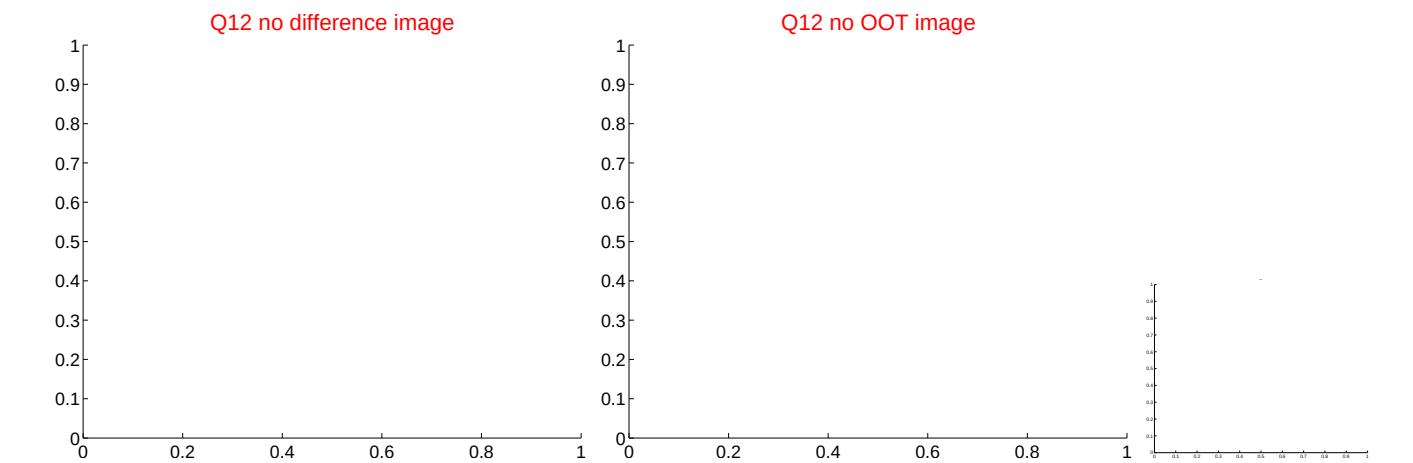


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

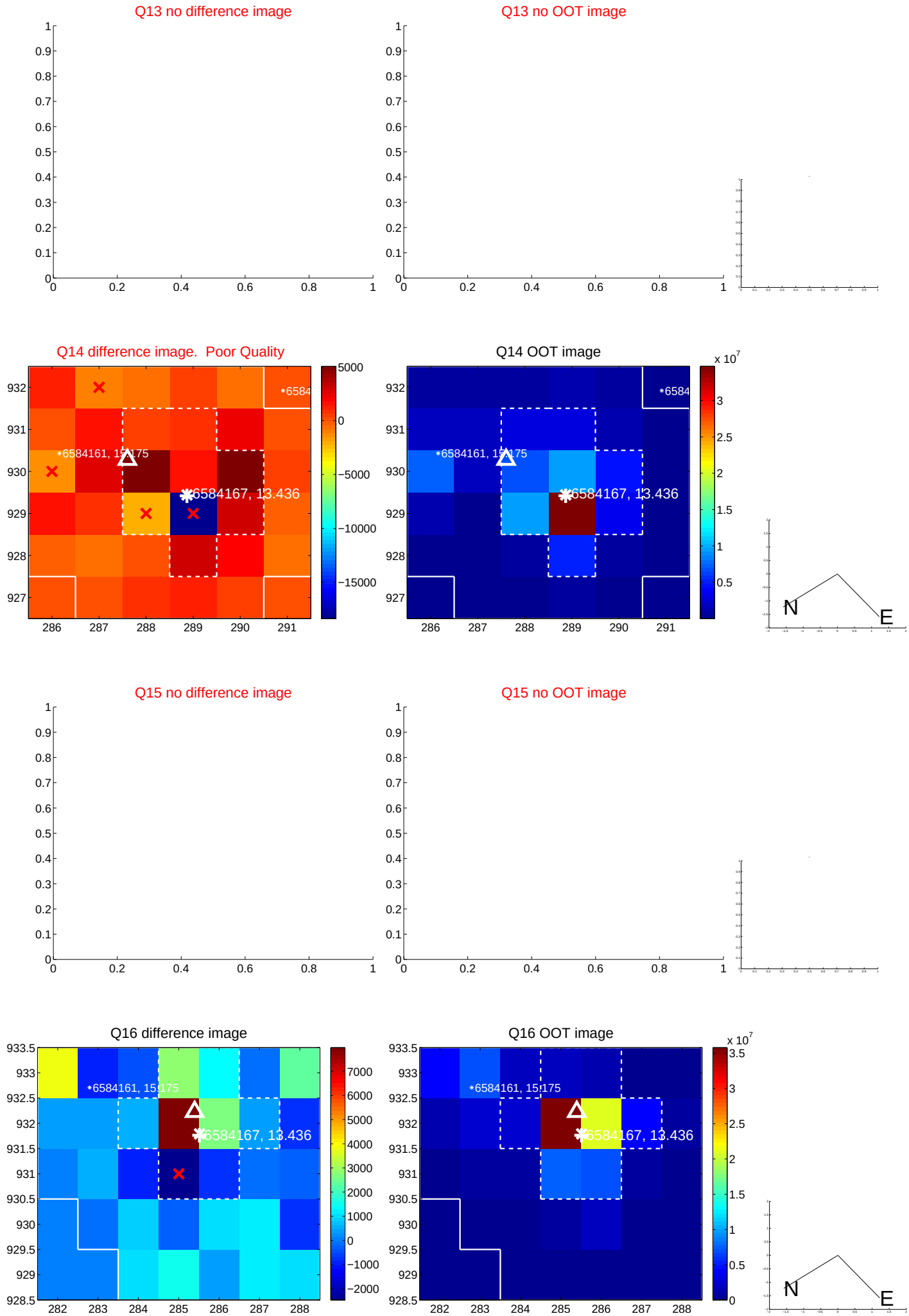




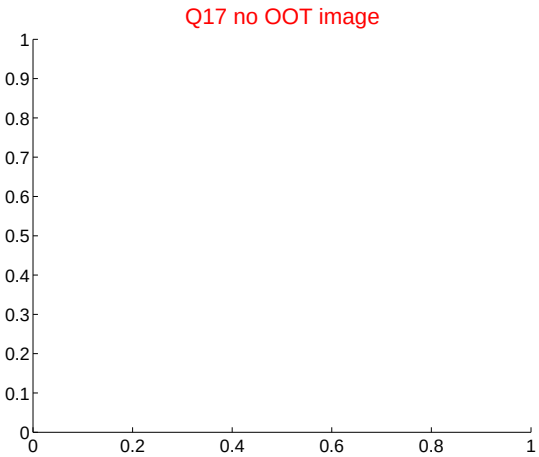


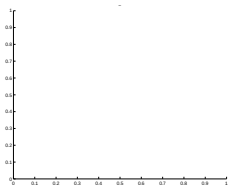


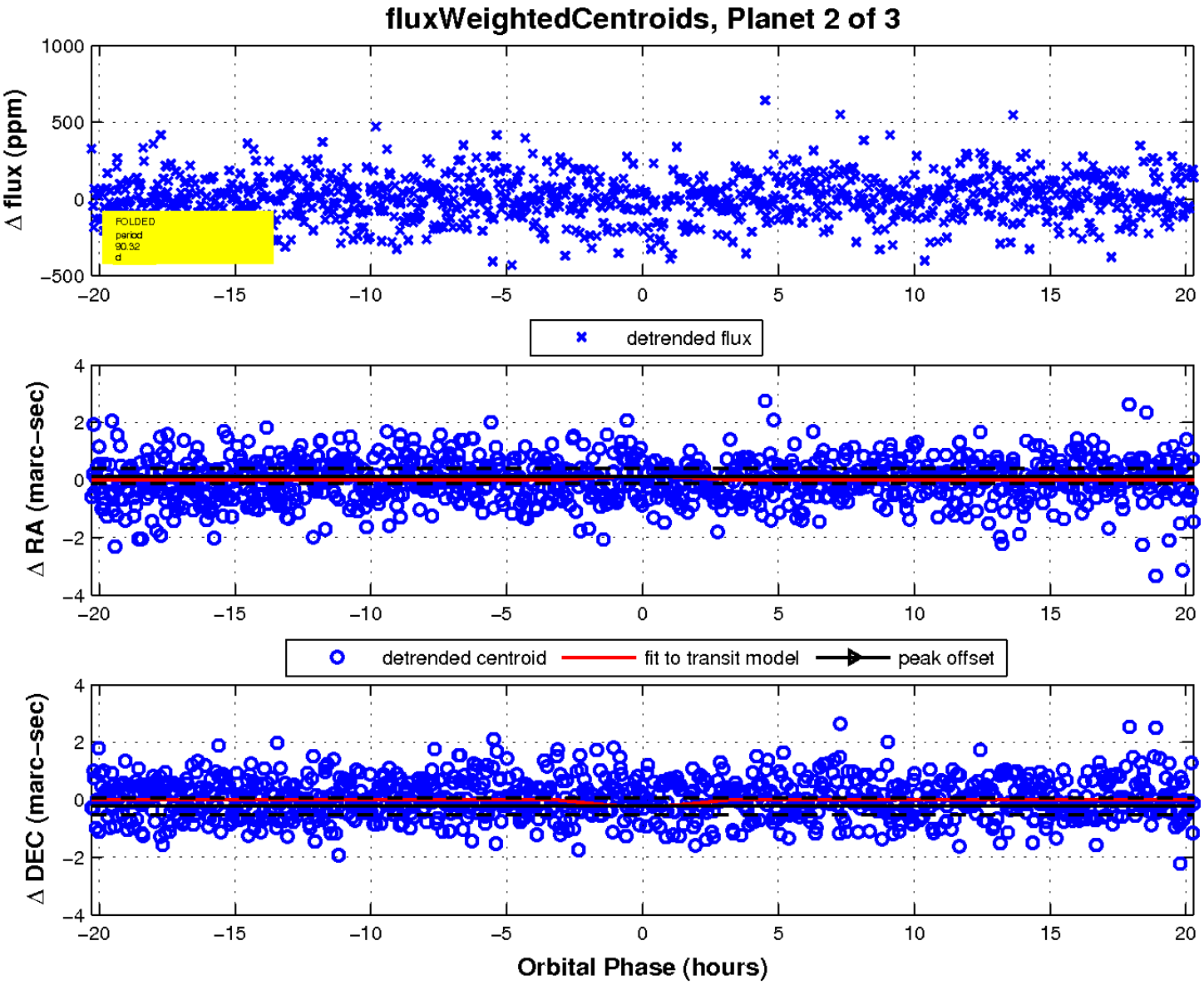
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



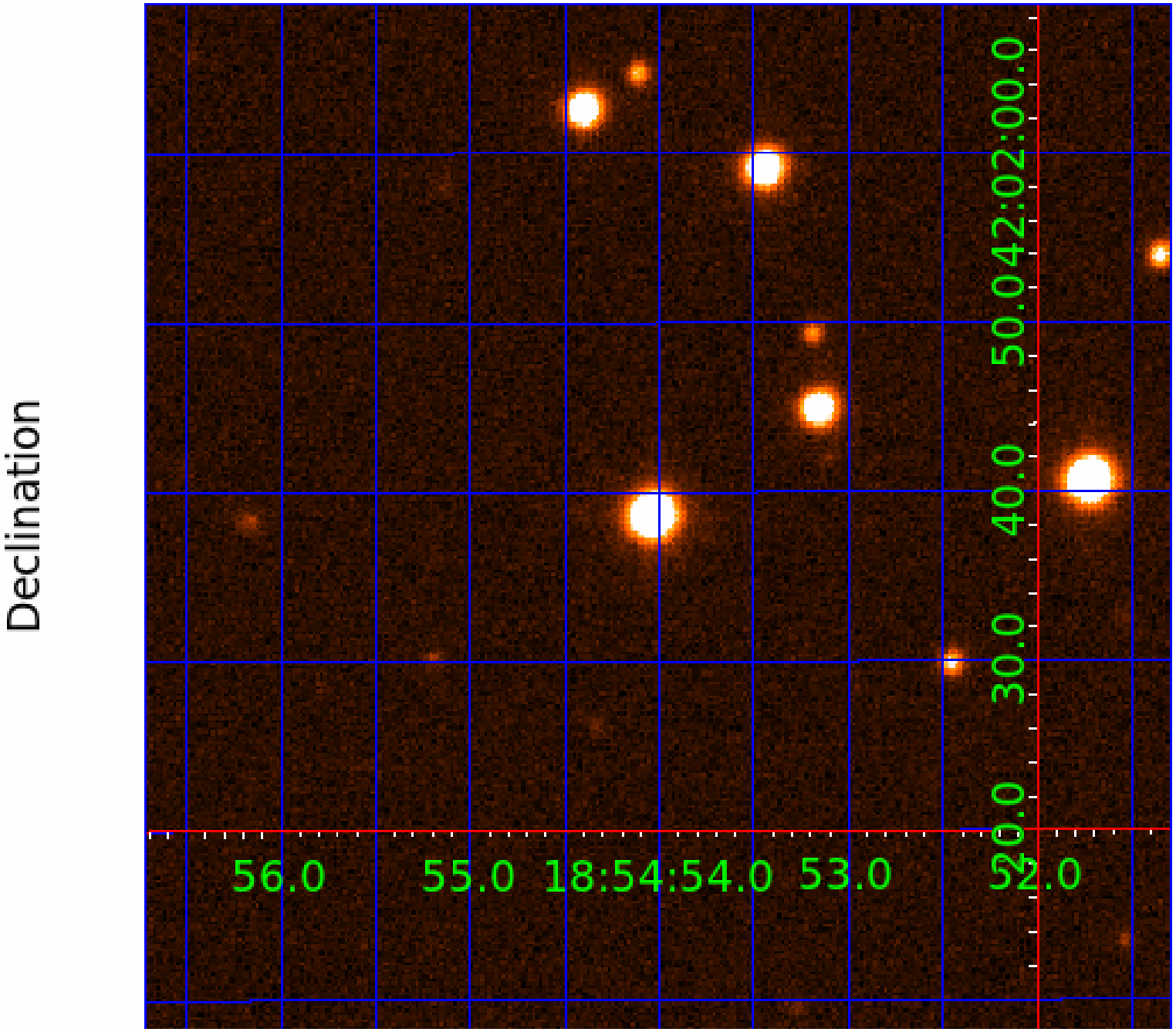
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.







UKIRT Image



KIC 006584167

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 ($S_\oplus$)
006584167-01	OBS	6732.01	0.733681	132.054305	8.7	4.245	9.2	5.4	1.41	6175	0.43	10844.67
006584167-02	OBS	No	90.320532	140.068469	218.9	6.769	8.7	7.5	1.41	6175	3.41	17.71
006584167-03	OBS	No	575.150465	213.182865	218.8	5.028	7.6	8.4	1.41	6175	2.42	1.50

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006584167-01	OBS	FP	0.00	1	0	0	0	LPP_DV
006584167-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_FEW_MEAS
006584167-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—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.

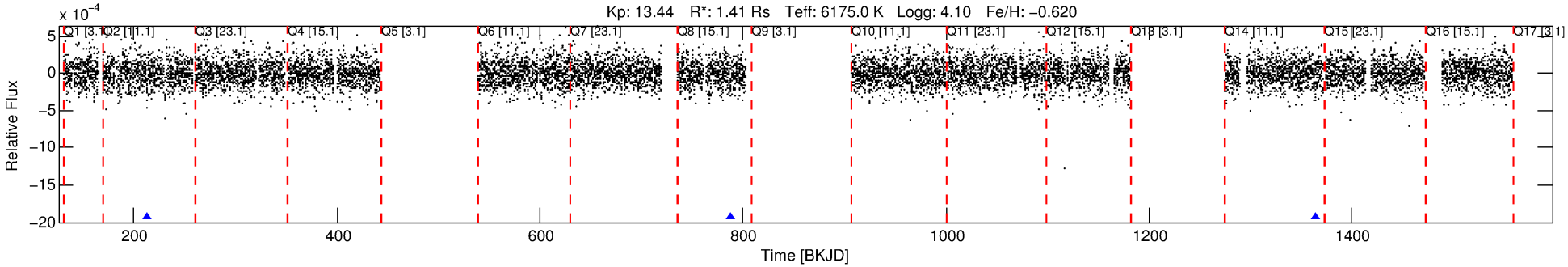
Ephemeris Match Information For 006584167-03

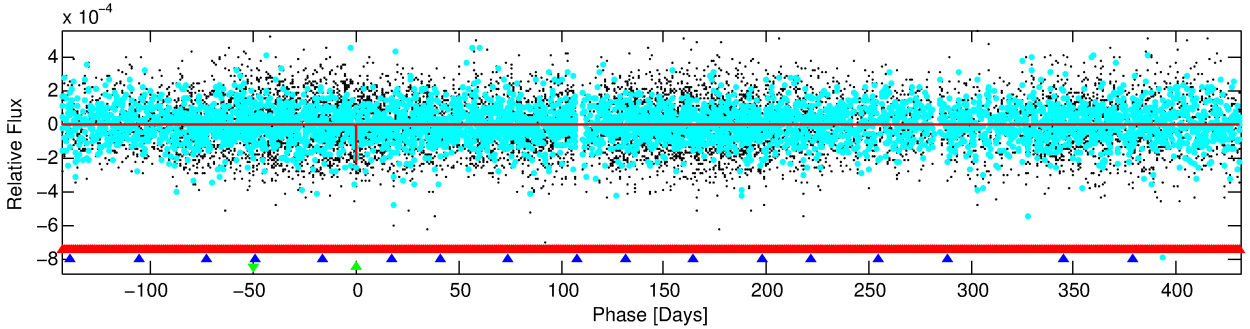
No Significant Match Found

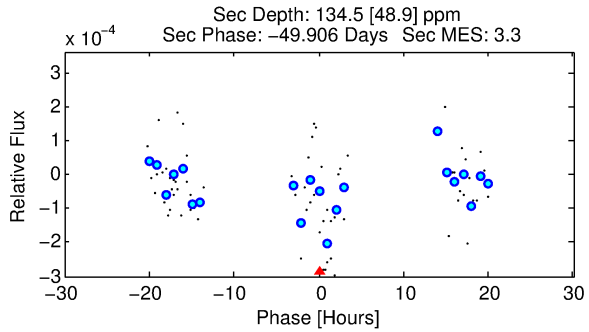
DV One-Page Summary

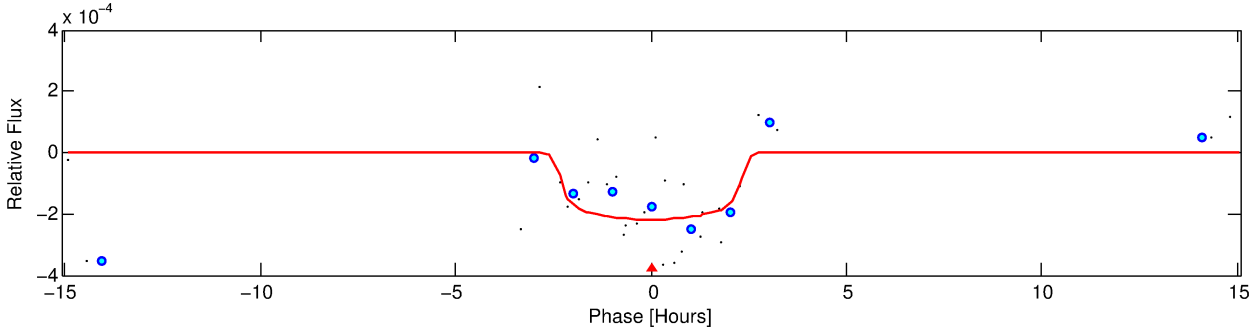
KIC: 6584167 Candidate: 3 of 3 Period: 575.150 d
KOI: K06732 Corr: No Ephemeris Match

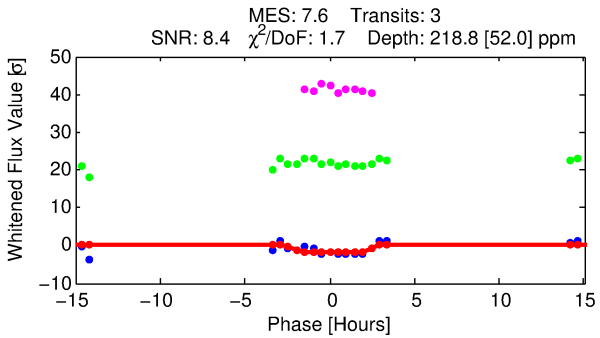
Kp: 13.44 R*: 1.41 Rs Teff: 6175.0 K Logg: 4.10 Fe/H: −0.620

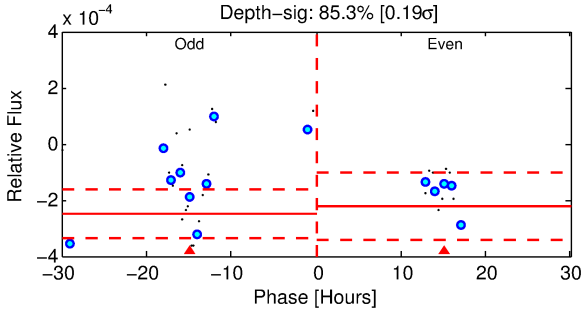


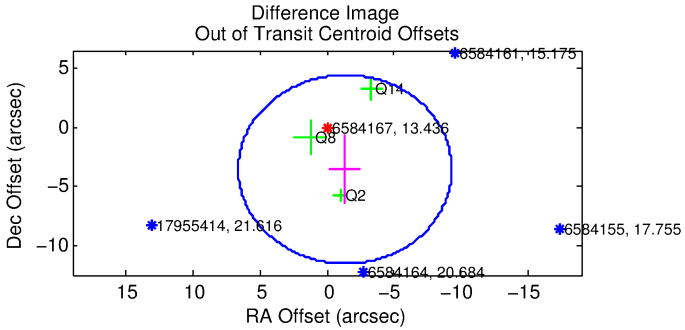












DV Fit Results:

Period = 575.15046 [0.07824] d
Epoch = 213.1829 [0.0803] BKJD
Rp/R* = 0.0158 [0.0276]
a/R* = 425.30 [4443.89]
b = 0.89 [2.25]

Seff = 1.50 [0.90]
Teq = 282 [42] K
Rp = 2.42 [4.33] Re
a = 1.3092 [0.4748] AU

Ag = 21721.00 [77650.31] [0.28σ]
Teffp = 5297 [4674] K [1.07σ]

DV Diagnostic Results:

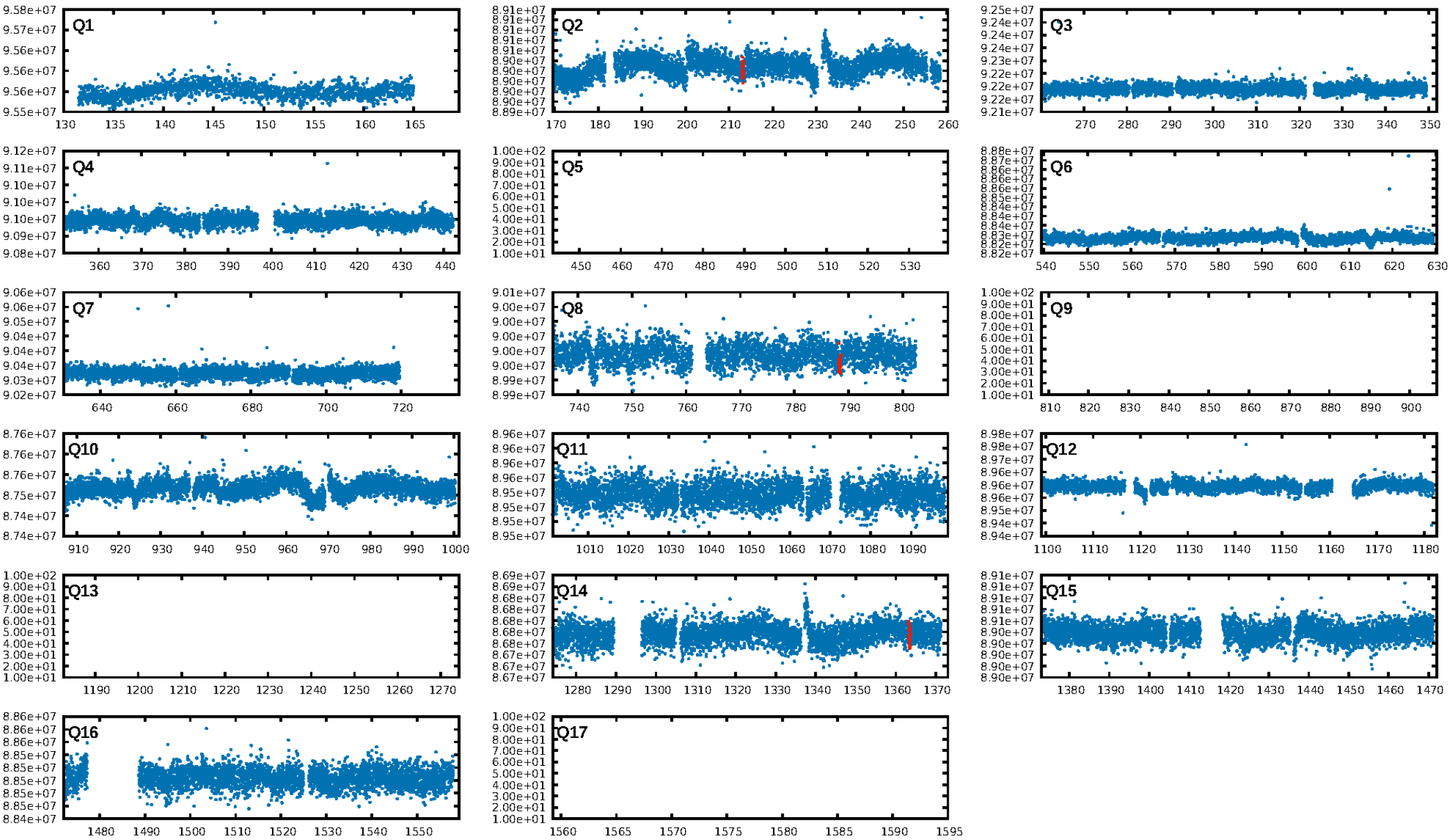
ShortPeriod−sig: 100.0% [1379.98σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: 4.7%
ModelChiSquareGof−sig: 97.4%
Bootstrap−pfa: 1.66e−07
RollingBand−fgt: 1.00 [3/3]
GhostDiagnostic−chr: −2.135

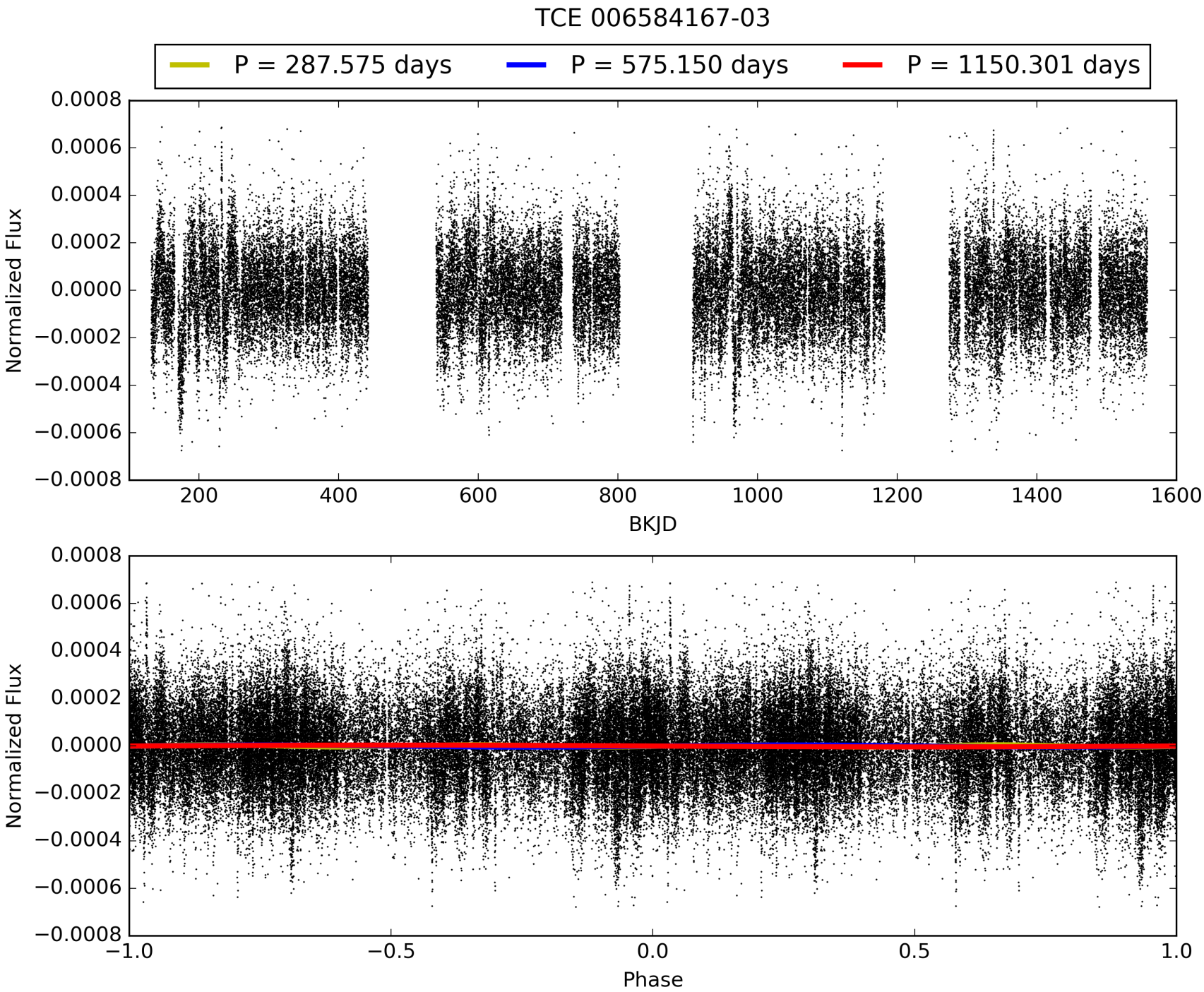
Centroid−sig: 68.4%
Centroid−so: 0.420 arcsec [0.20σ]
OotOffset−rm: 3.818 arcsec [1.44σ]
KicOffset−rm: 3.714 arcsec [1.40σ]
OotOffset−st: 2/0/1/0 [3]
KicOffset−st: 2/0/1/0 [3]
DiffImageQuality−fgm: 0.00 [0/3]
DiffImageOverlap−fno: 0.00 [0/3]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01−Feb−2016 07:37:19 Z

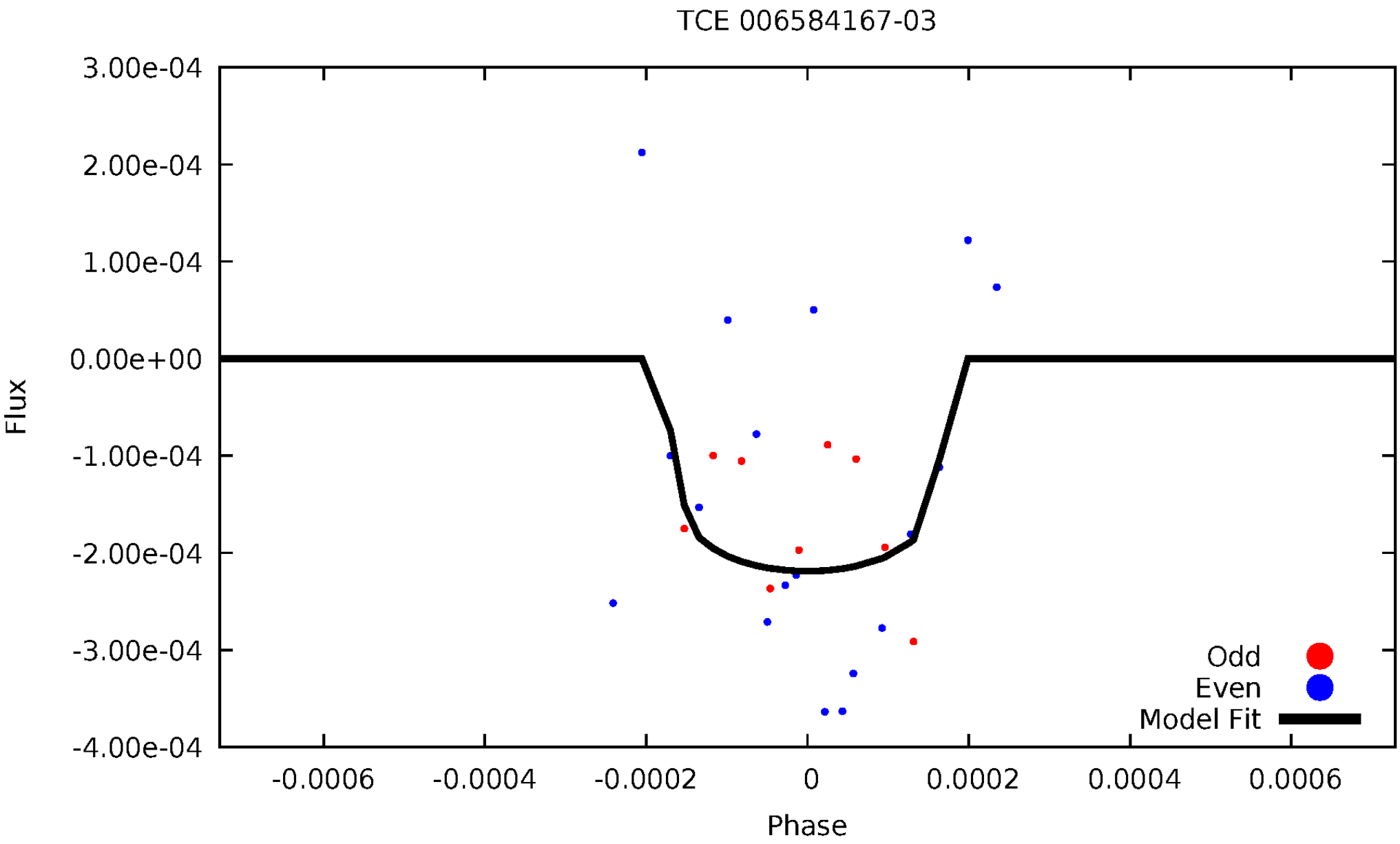
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006584167-03, PDC Light Curves

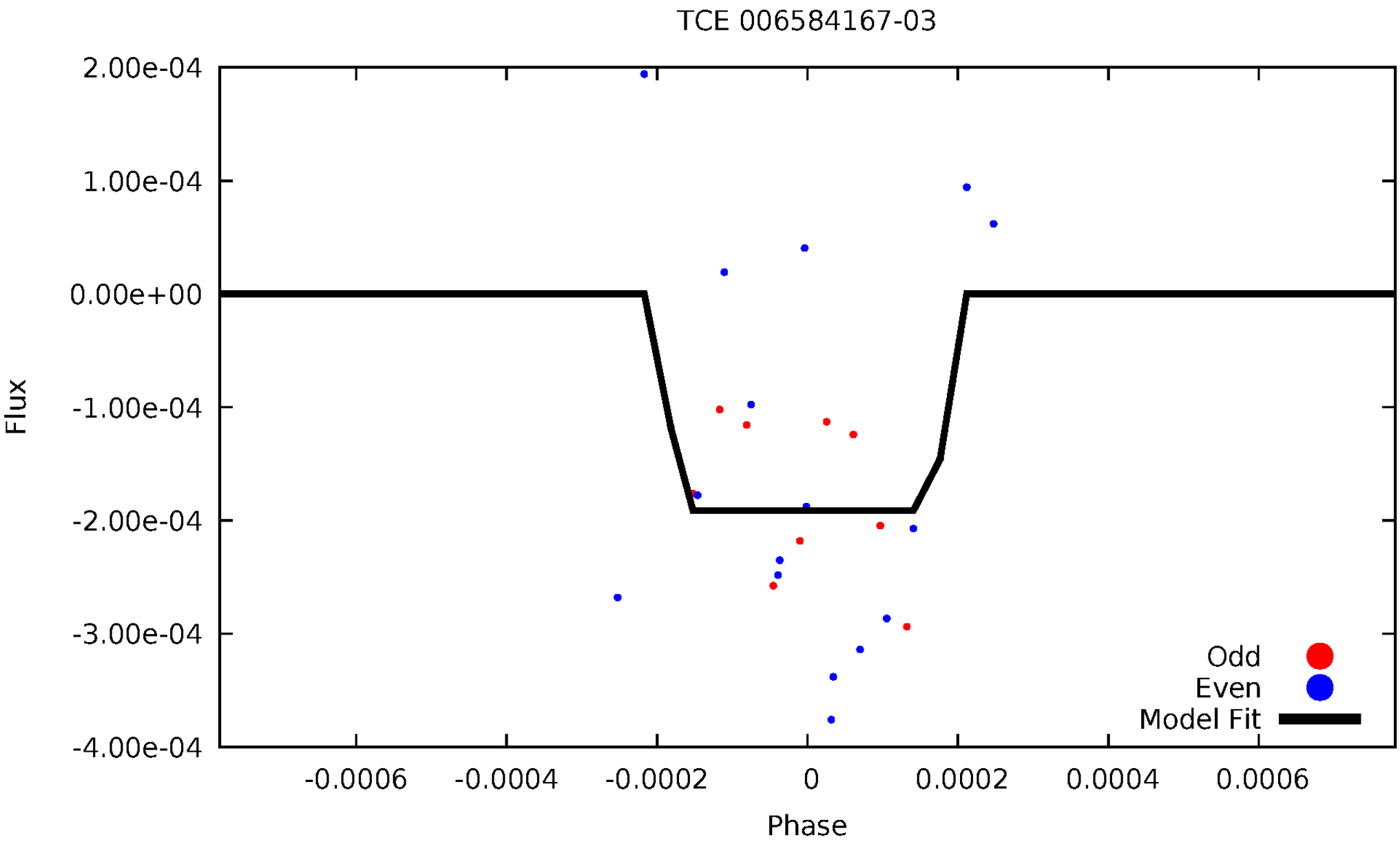



TCE 006584167-03
P = 287.575 days
P = 575.150 days
P = 1150.301 days
Normalized Flux
BKJD
Normalized Flux
Phase

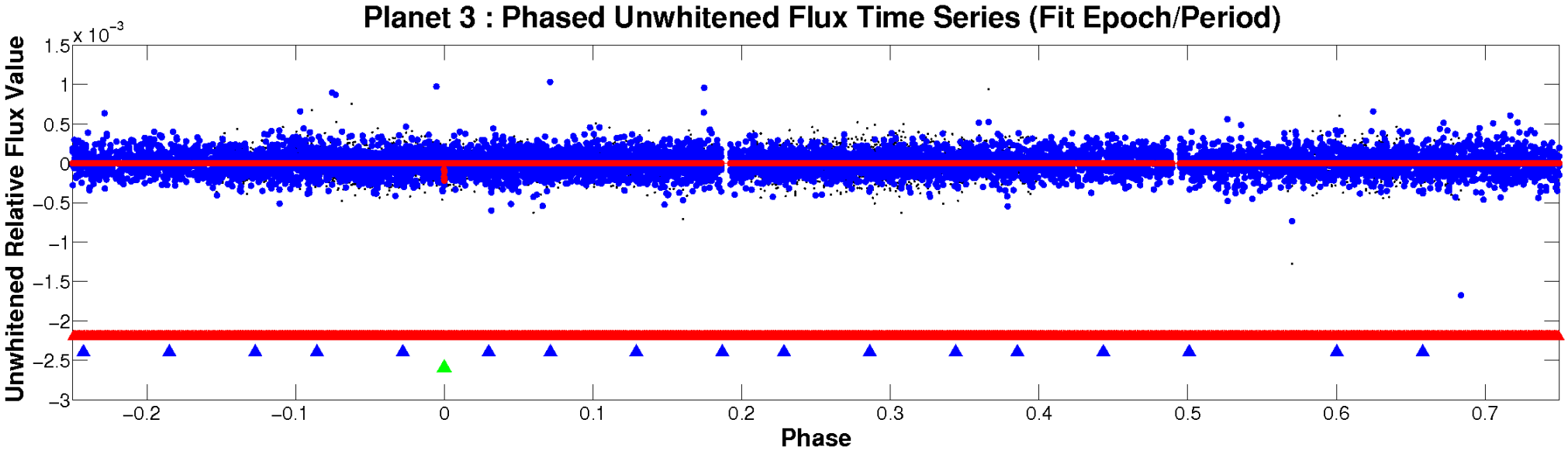
DV Odd/Even

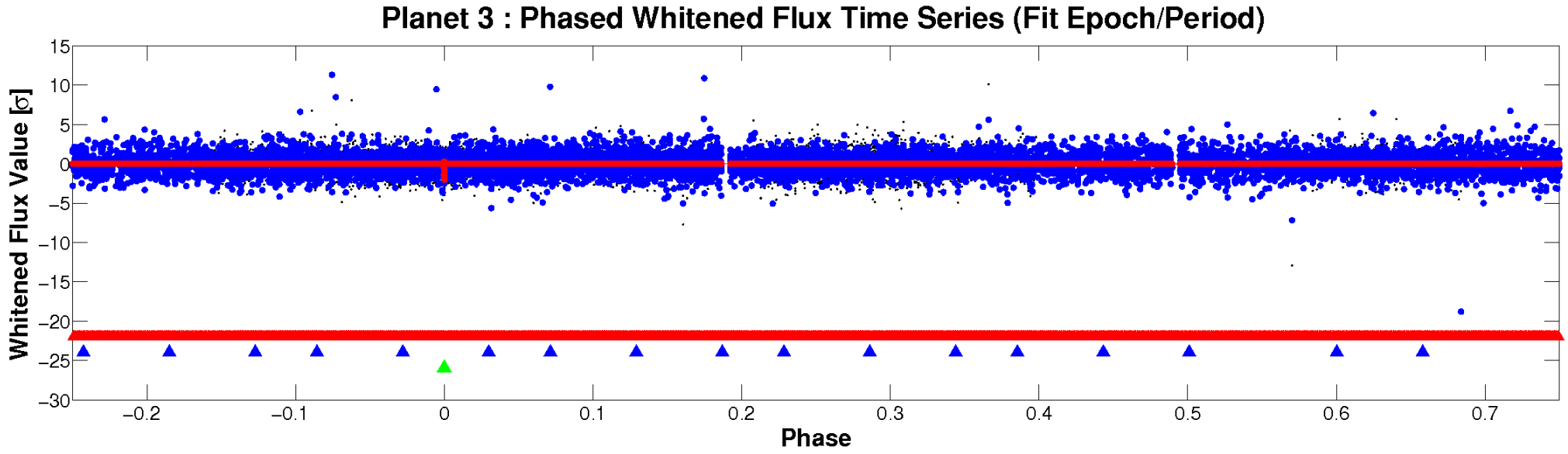

TCE 006584167-03
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
Flux
-0.0006
-0.0004
-0.0002
0
0.0002
0.0004
0.0006
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006584167-03
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
Flux
-0.0006
-0.0004
-0.0002
0
0.0002
0.0004
0.0006
Phase
Odd
Even
Model Fit

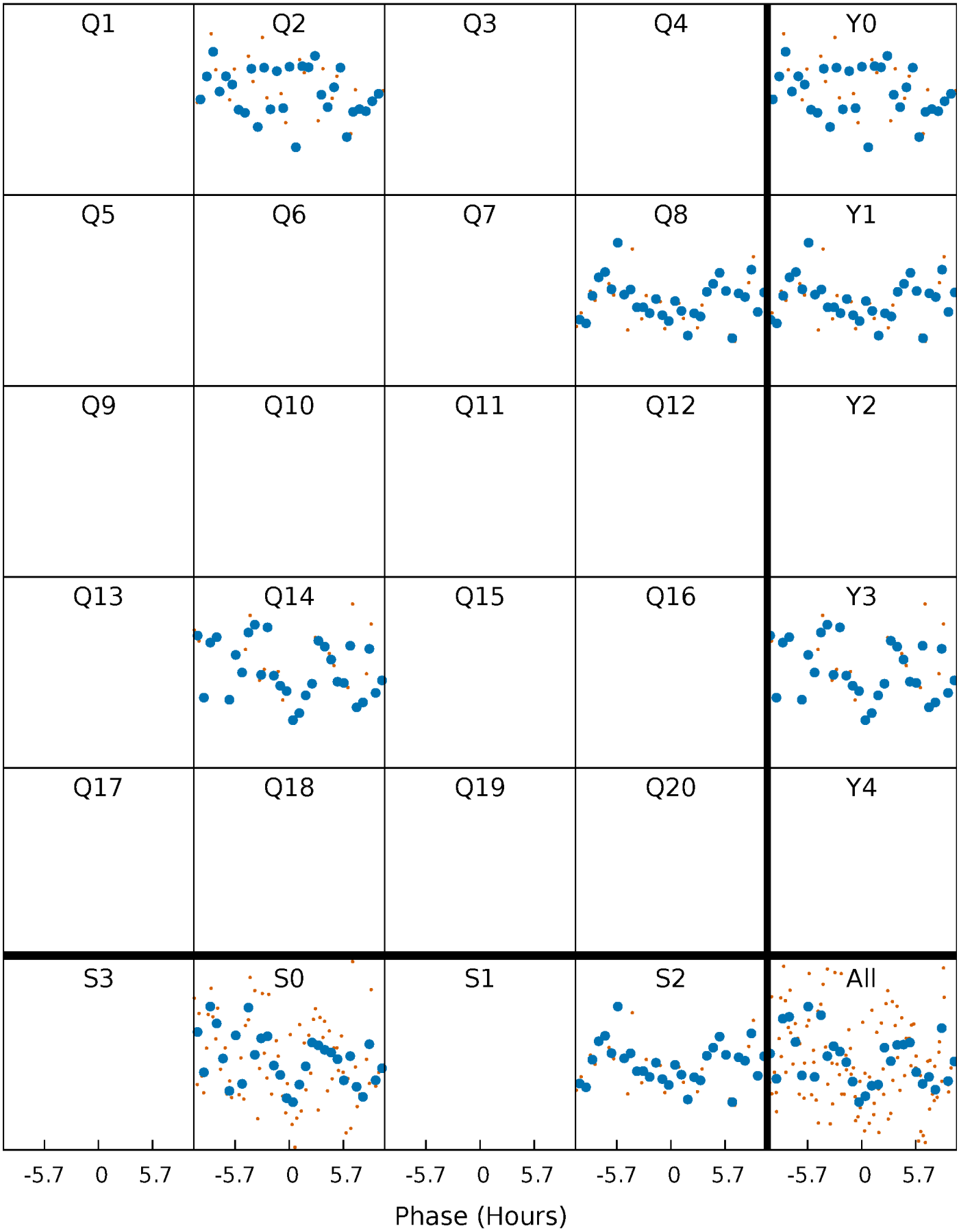
Non-Whitened Vs. Whitened Light Curve





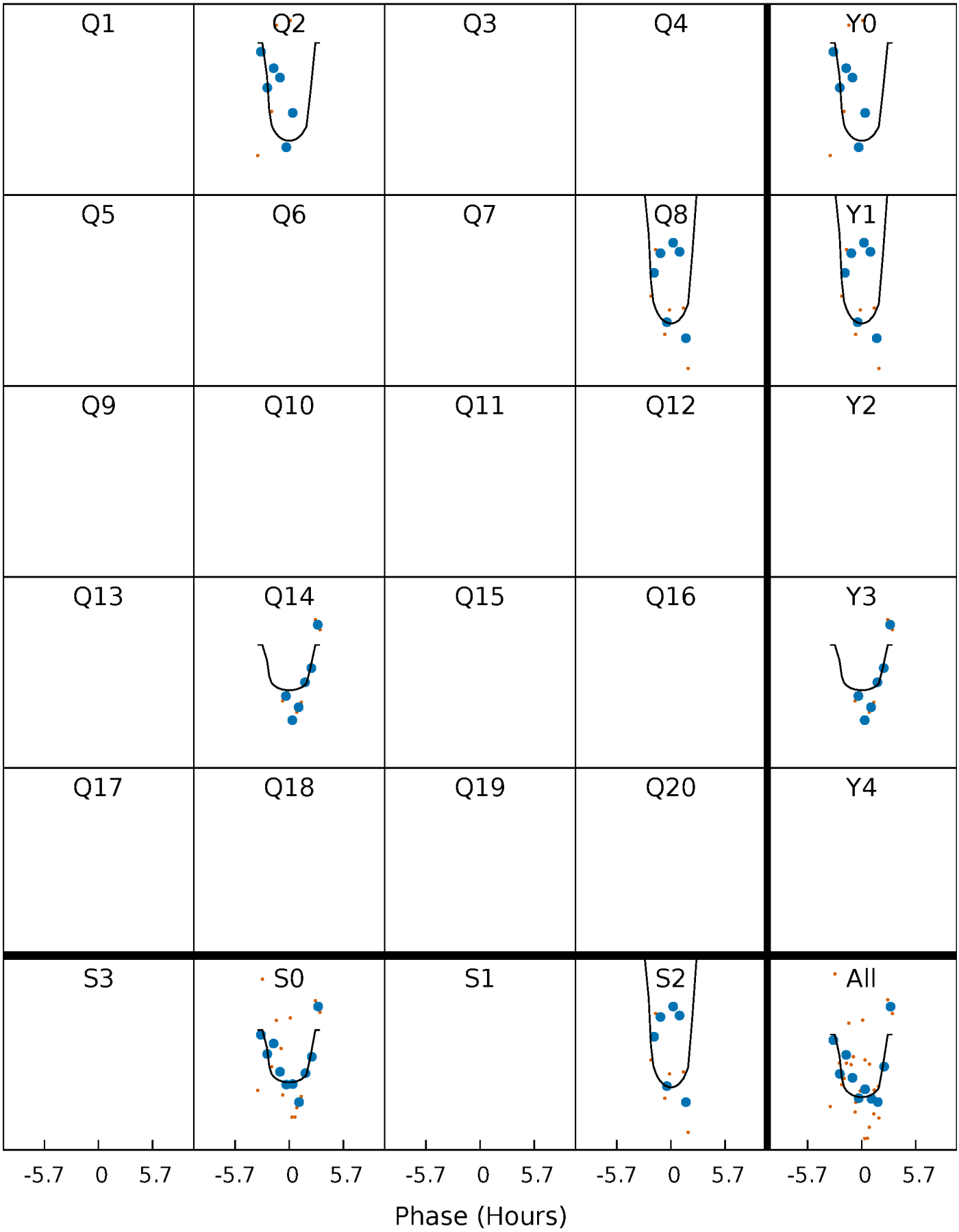
PDC Quarter-Phased Transit Curves

TCE 006584167-03 P=575.150465 Days T_0=213.182865 (BKJD)



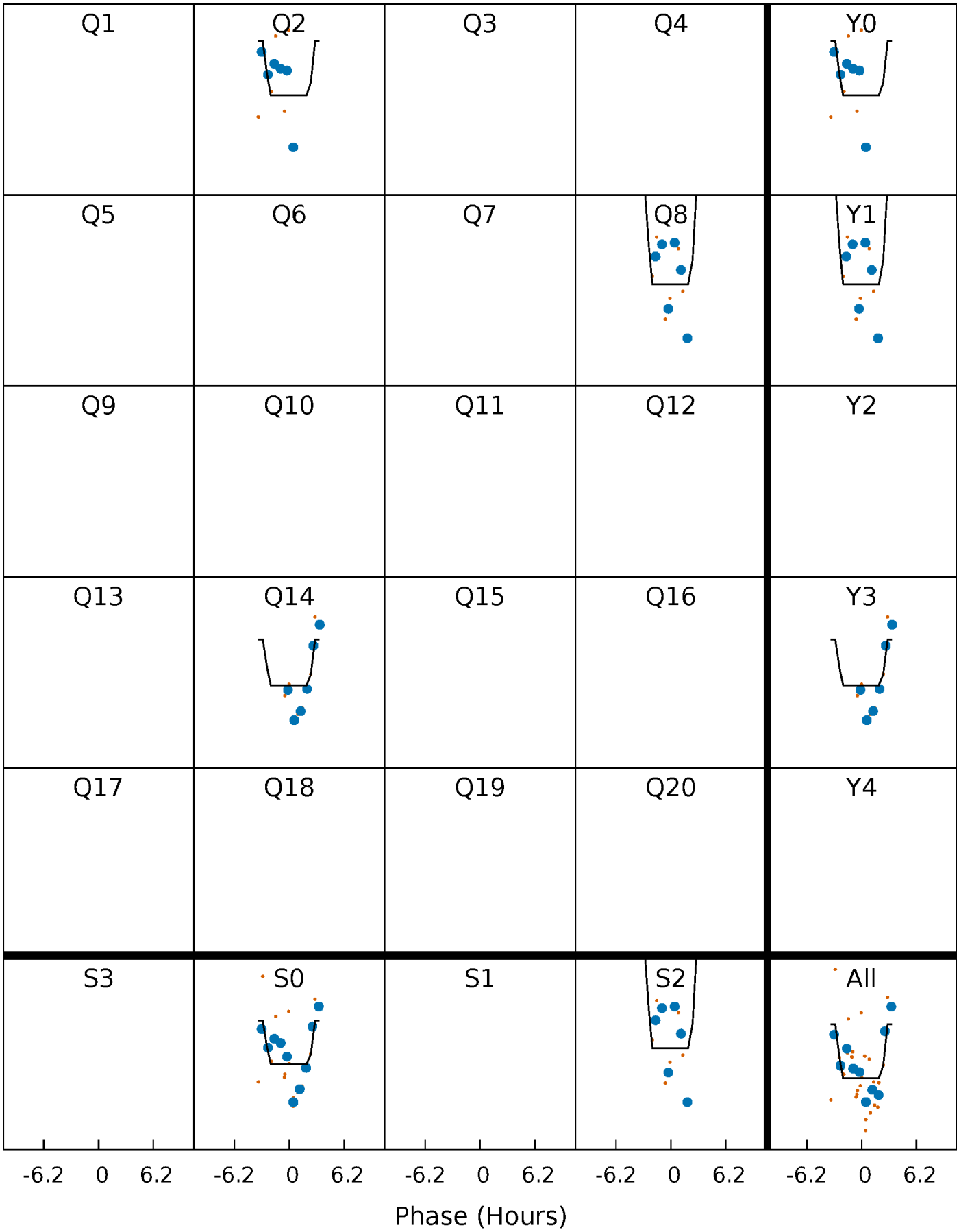
DV Quarter-Phased Transit Curves

TCE 006584167-03 P=575.150465 Days T_0=213.182865 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

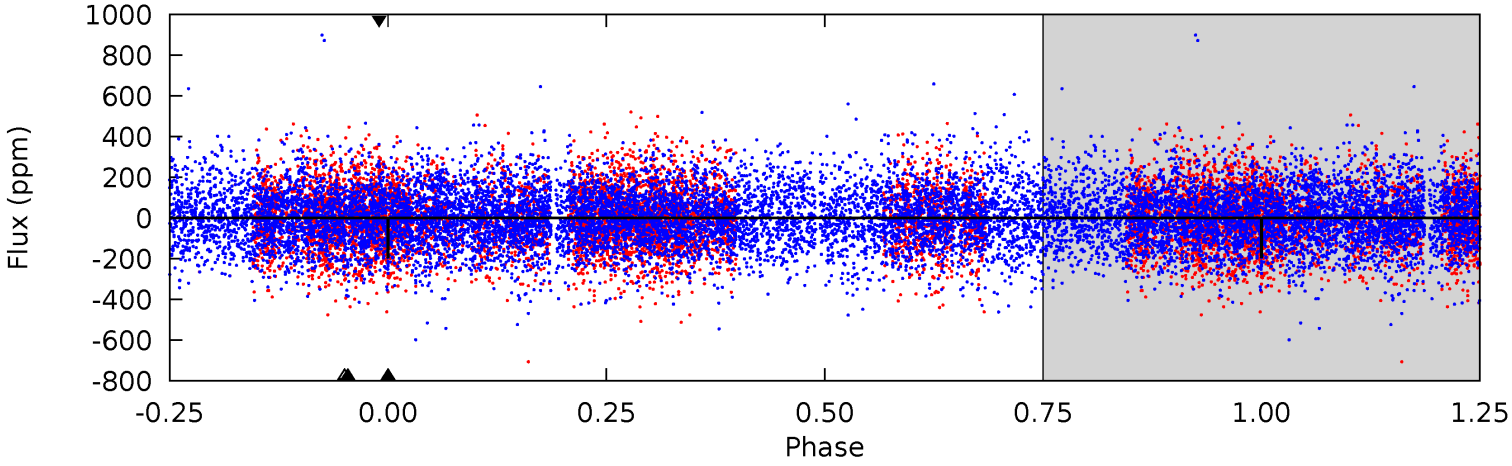
TCE 006584167-03 P=575.143413 Days T_0=213.189570 (BKJD)

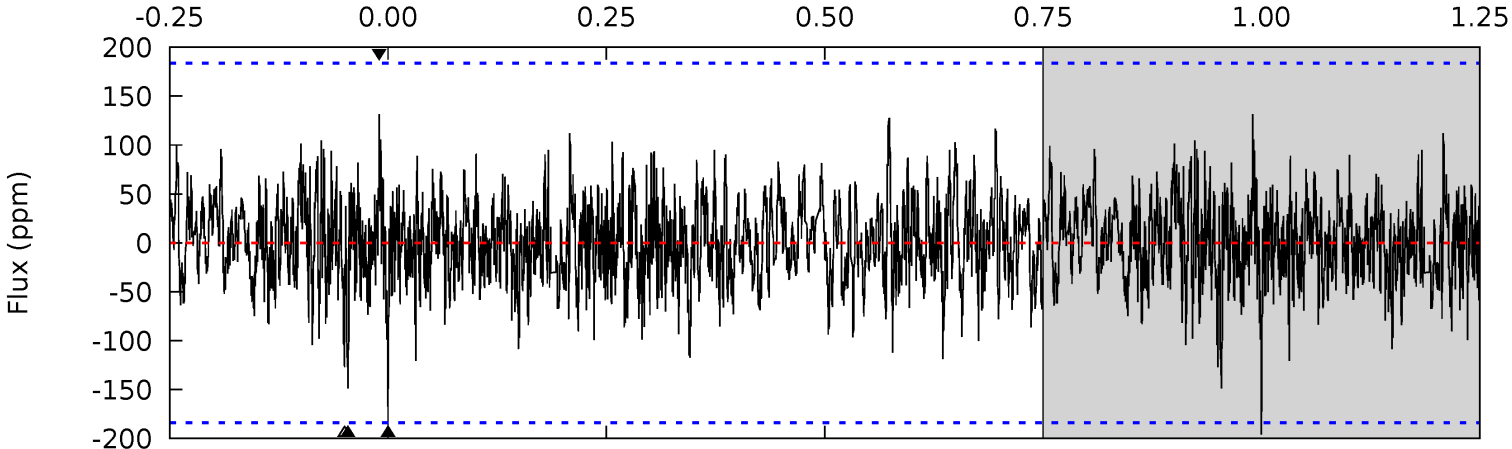


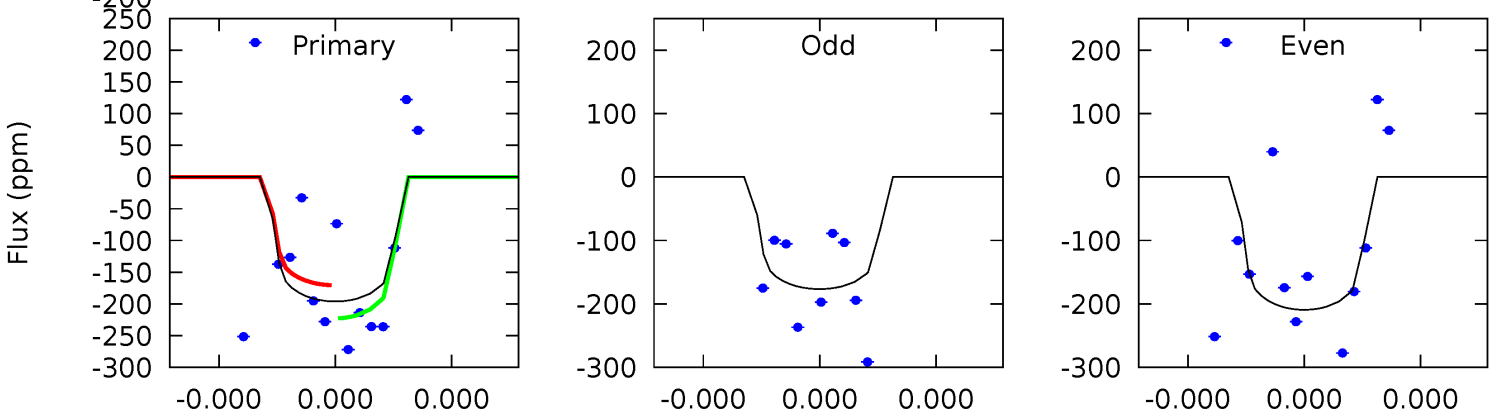
DV Model-Shift Uniqueness Test

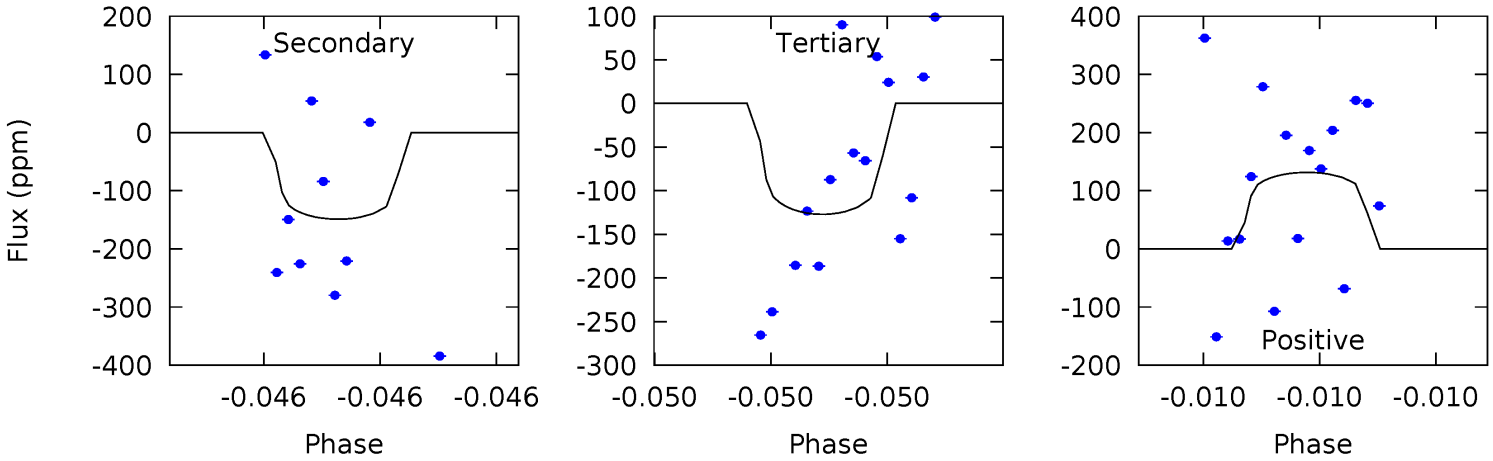
006584167-03, P = 575.150465 Days, E = 213.182865 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.03	4.58	3.90	4.04	5.65	3.60	1.15	2.12	1.99	0.67	0.54	0.49	1.12	0.40	0.80





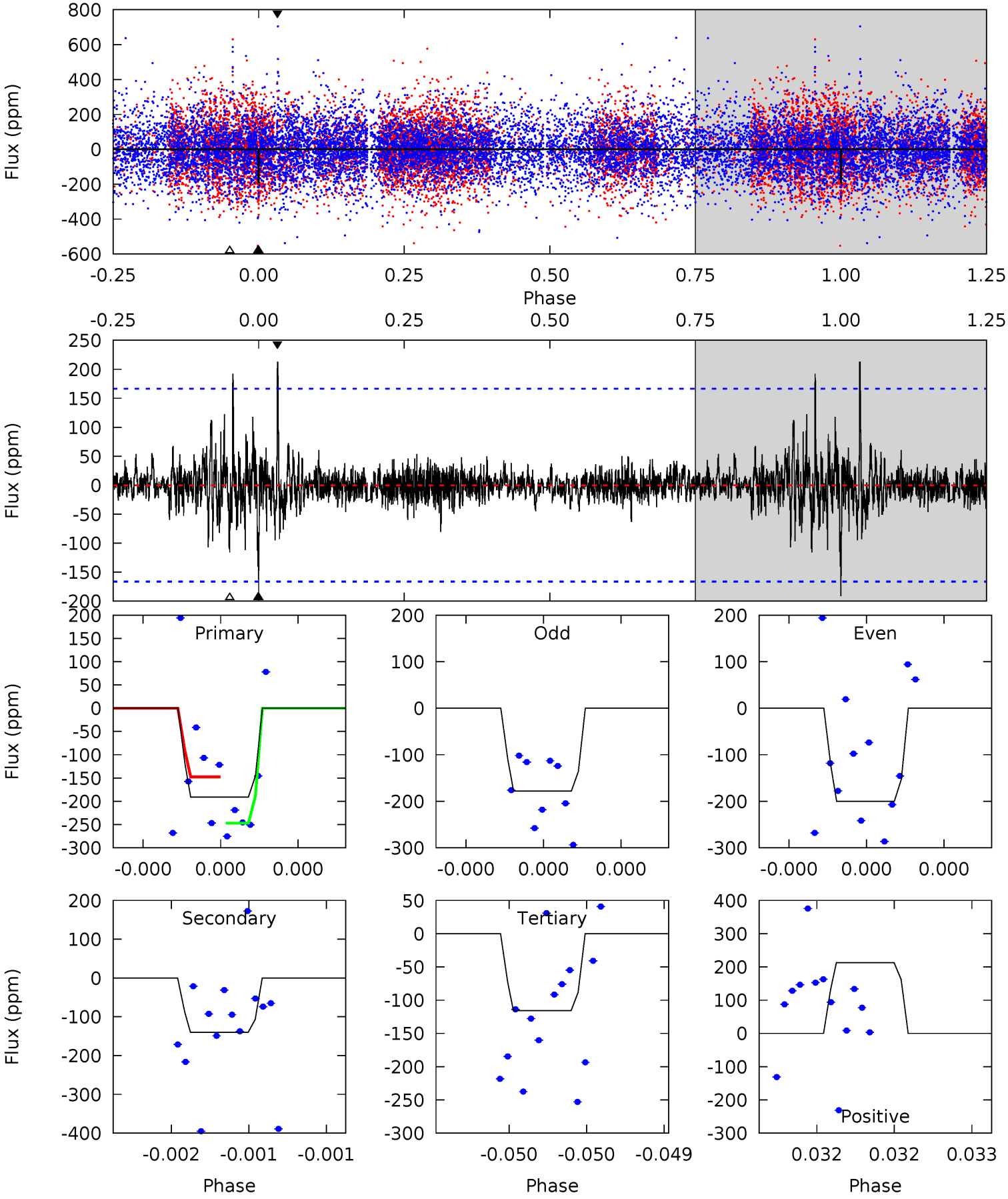




Alt Model-Shift Uniqueness Test

006584167-03, P = 575.143413 Days, E = 213.189570 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.45	4.73	3.91	7.19	5.61	3.54	0.89	2.54	-0.73	0.82	-2.46	0.37	1.08	0.53	1.67



Stellar Parameters For KIC 006584167

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6175^{+219}_{-219}	$4.099^{+0.344}_{-0.159}$	$-0.620^{+0.300}_{-0.300}$	$1.405^{+0.393}_{-0.524}$	$0.904^{+0.128}_{-0.096}$	$0.459^{+1.225}_{-0.215}$
	+4%/-4%	+8%/-4%	+48%/-48%	+28%/-37%	+14%/-11%	+267%/-47%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006584167-03 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-149±33	$3.70^{+3.81}_{-2.45}$	392^{+30}_{-38}	4519^{+2730}_{-999}	10583^{+76981}_{-8046}
Alt.	-140±30	$3.74^{+3.49}_{-2.69}$	389^{+34}_{-39}	4477^{+3605}_{-945}	$9772^{+105363}_{-7270}$

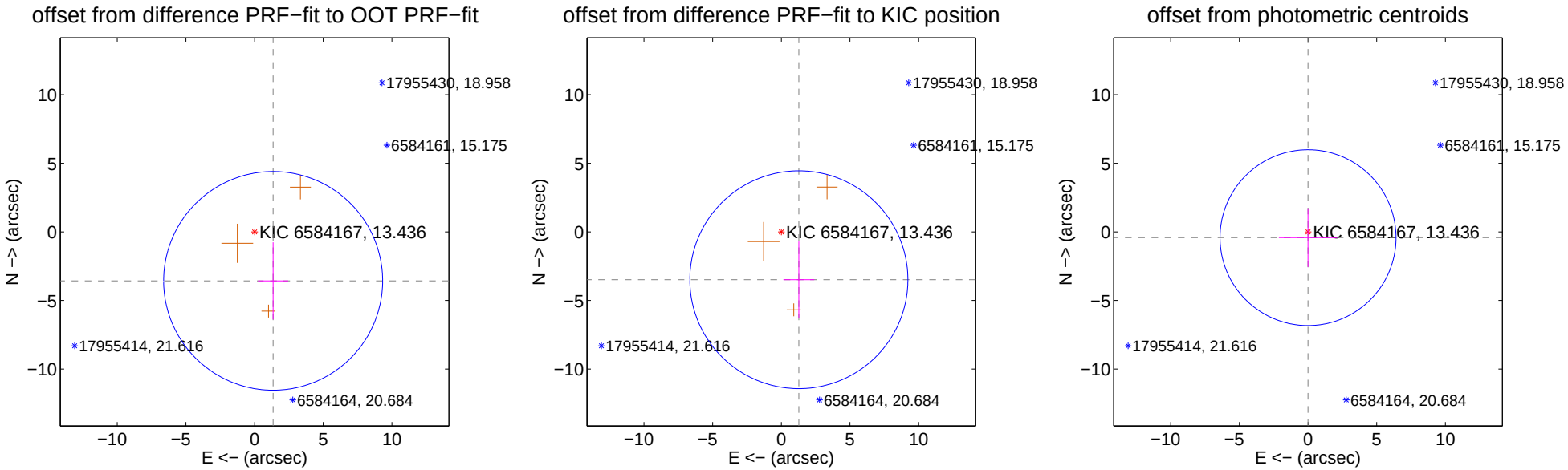
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

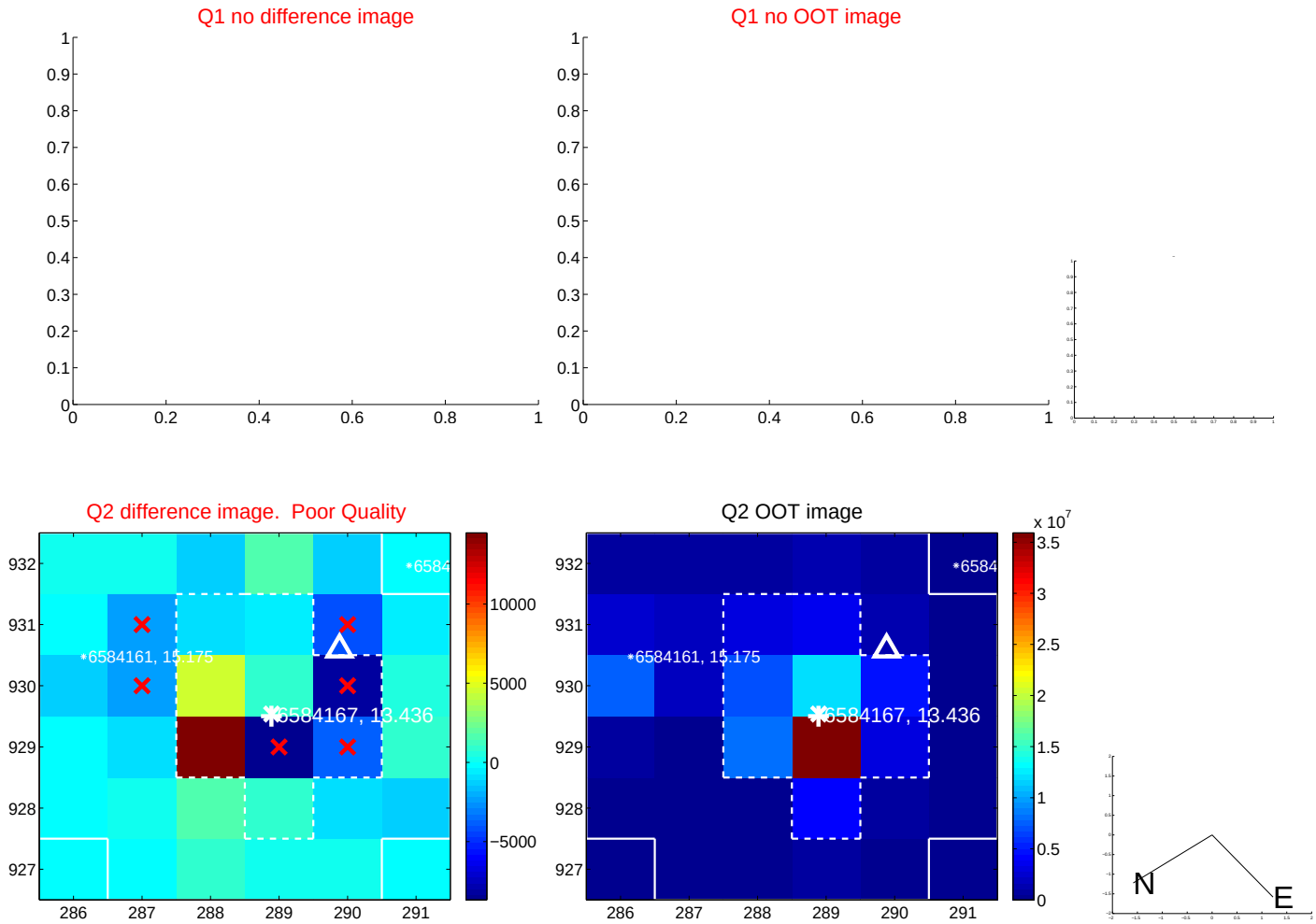
Supplemental centroid analysis for 006584167-03. Kepler magnitude: 13.44. Transit SNR 8.39
There are 0 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

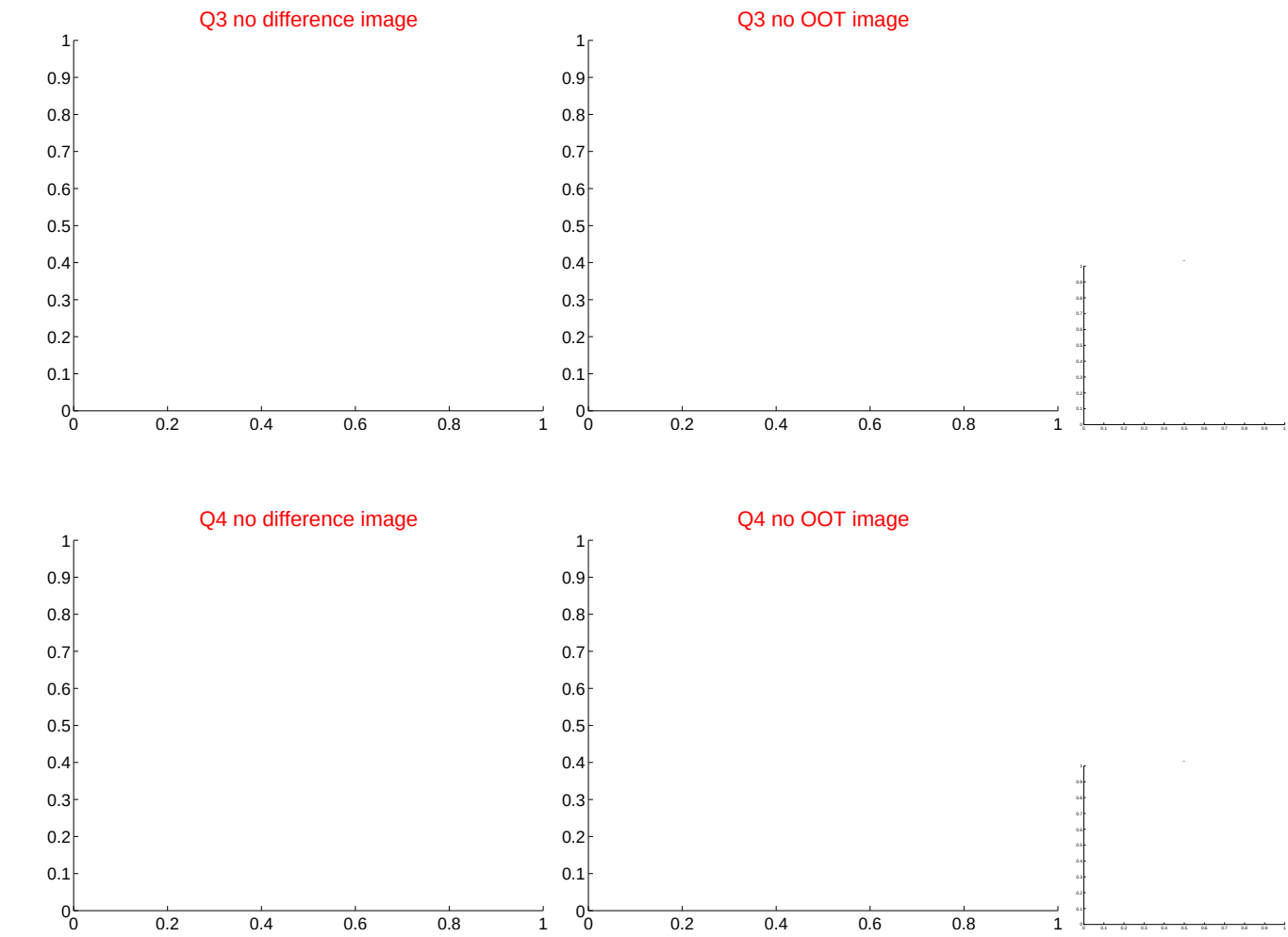
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.818 ± 2.658	1.44	-1.351 ± 1.099	-3.571 ± 2.811
PRF-fit source offset from KIC position	3.714 ± 2.647	1.40	-1.277 ± 1.124	-3.488 ± 2.788
photometric centroid source offset	0.42 ± 2.14	0.20	0.00 ± 2.12	-0.42 ± 2.14



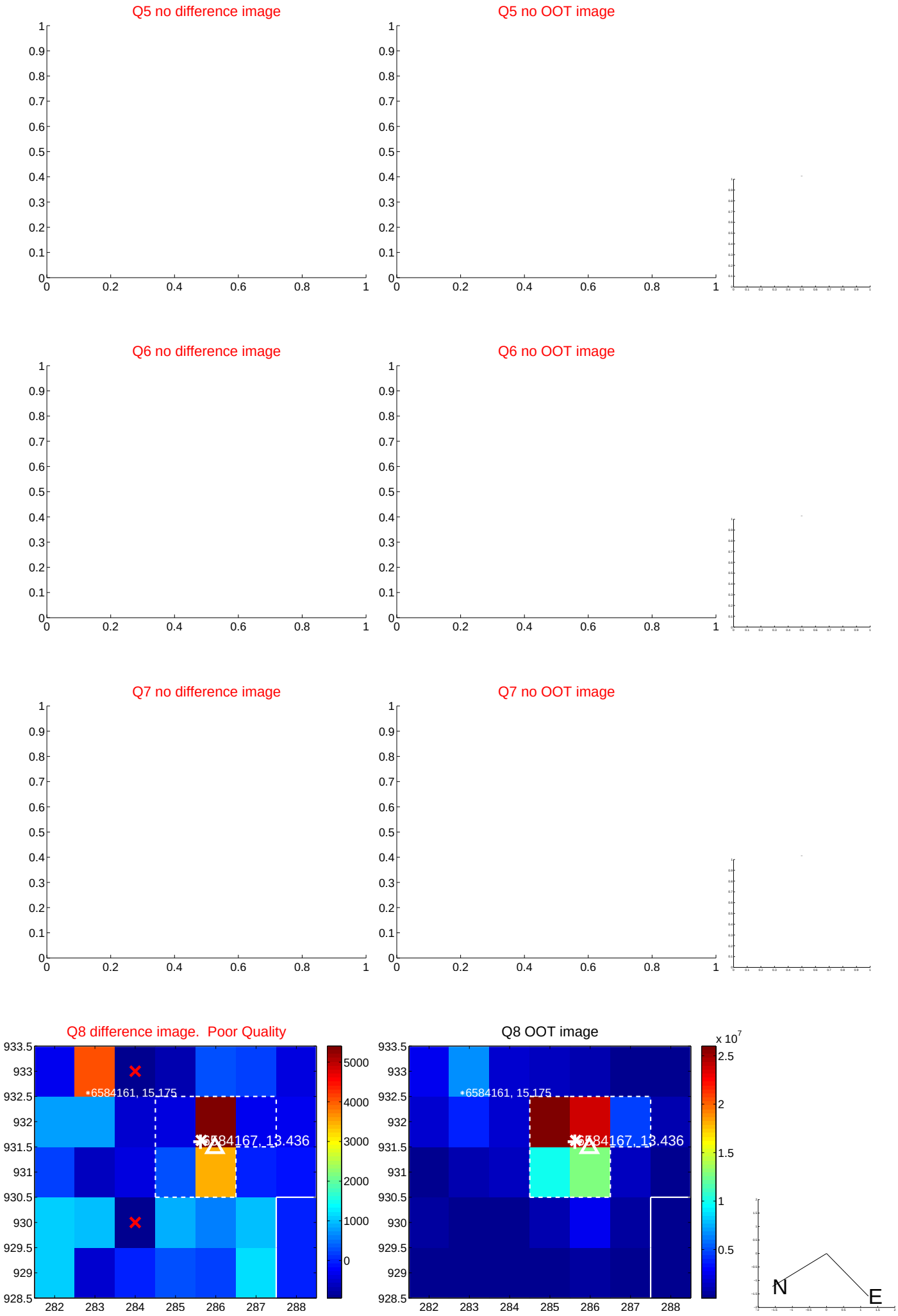
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red *: 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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

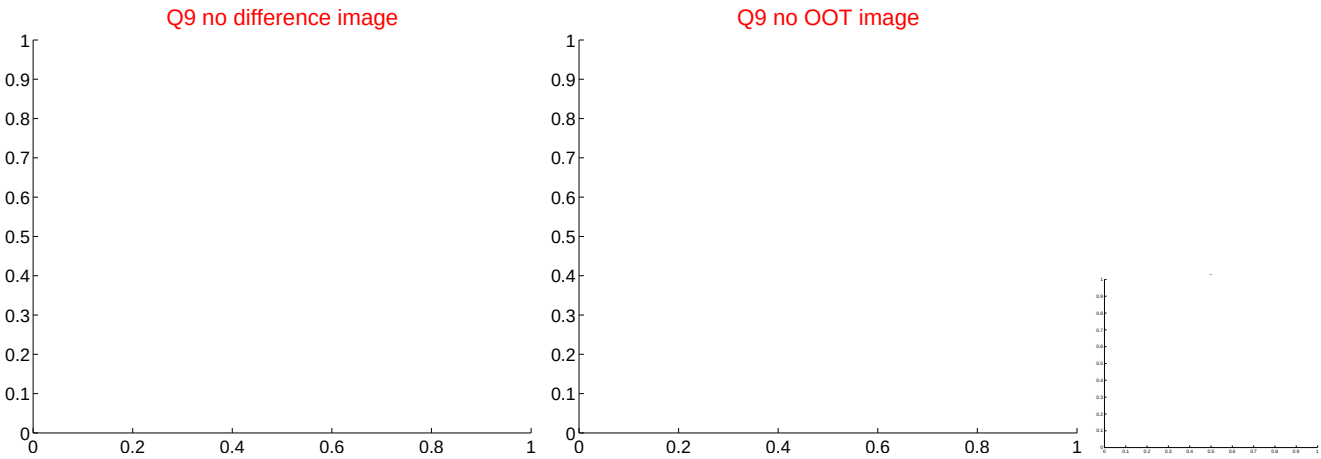


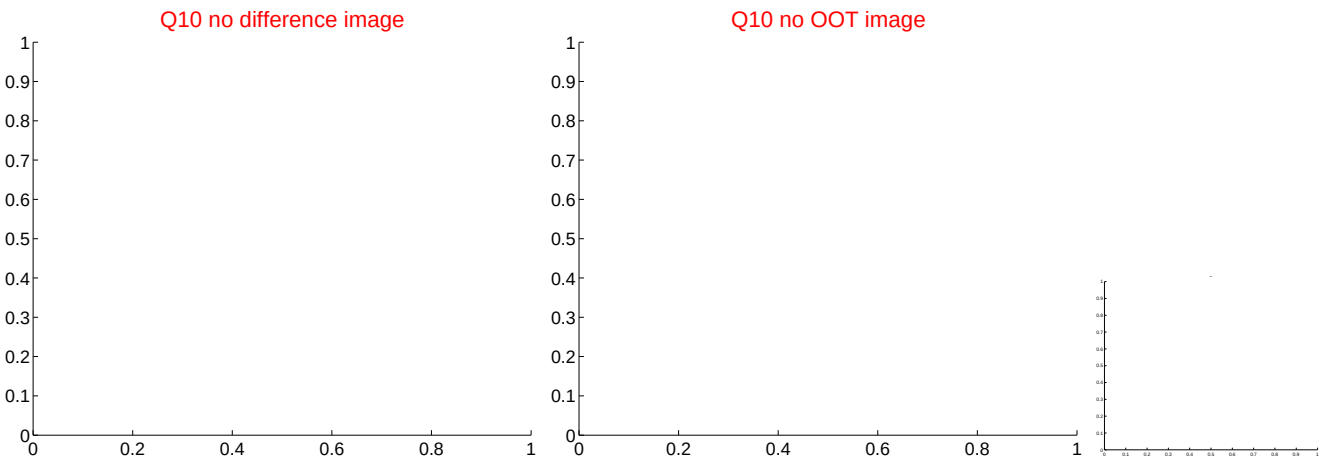


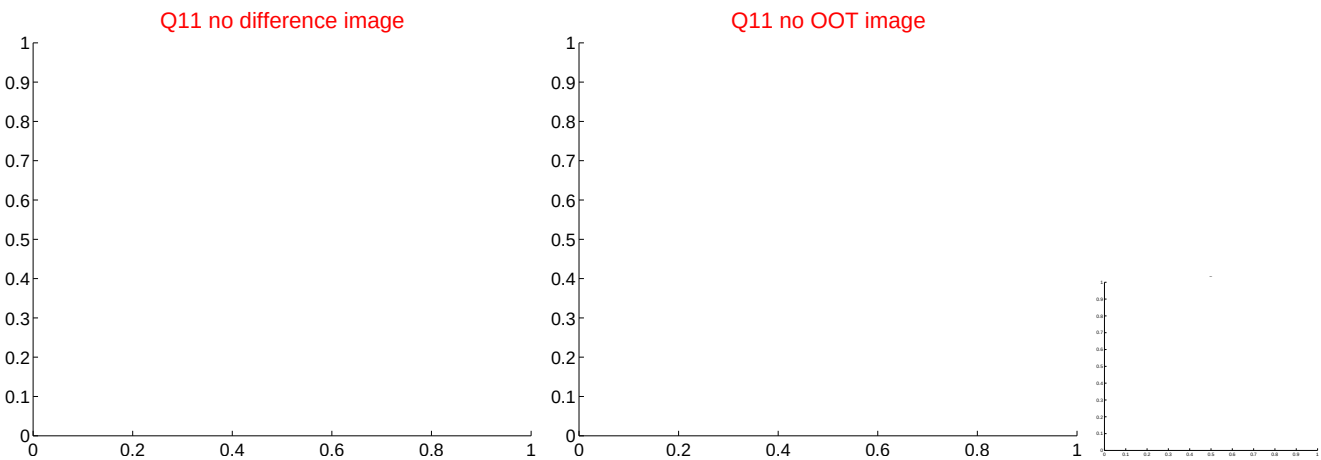
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

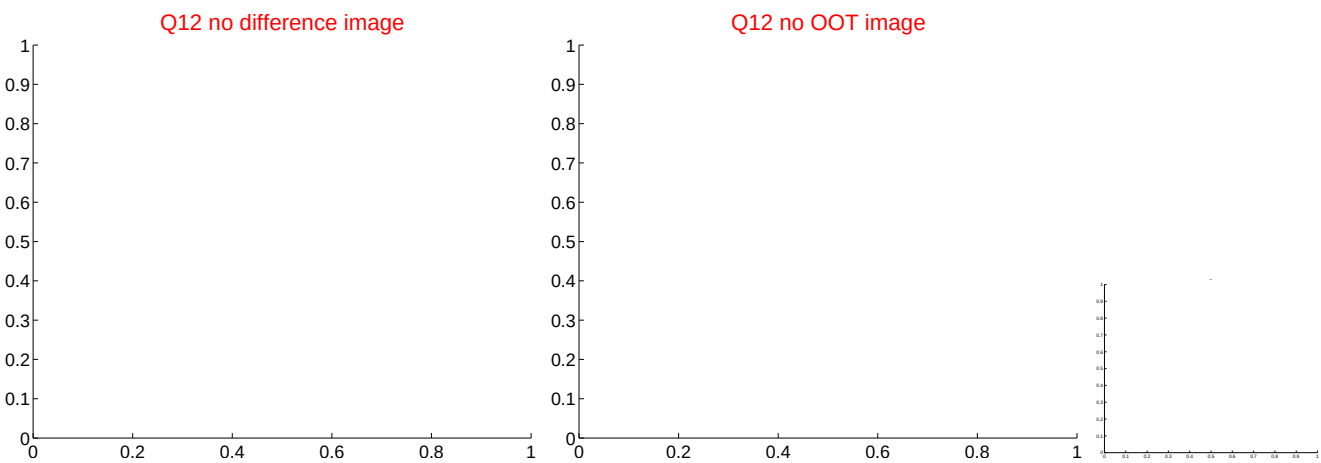


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

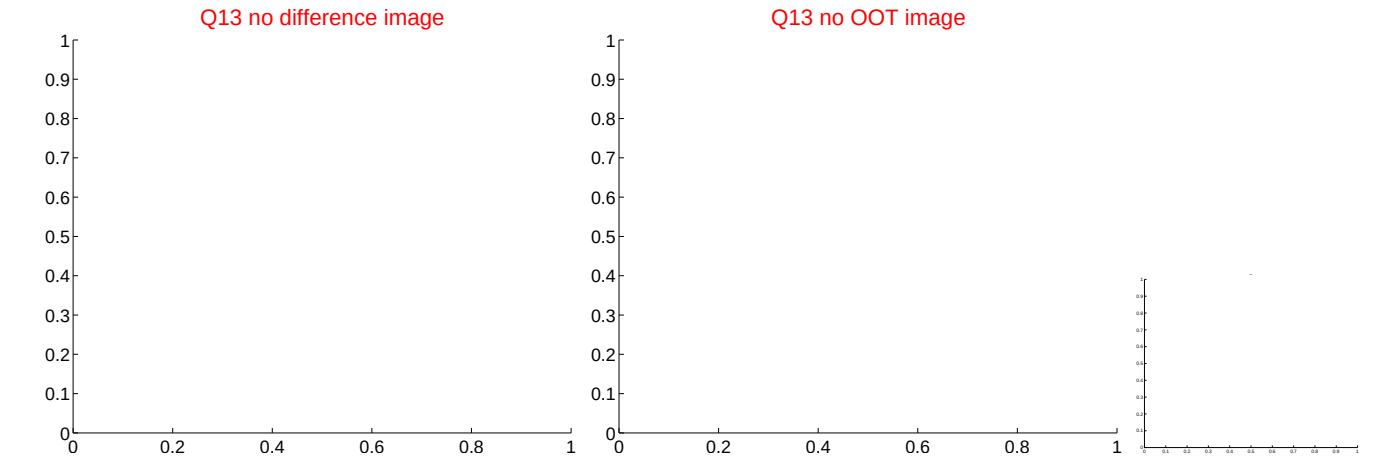


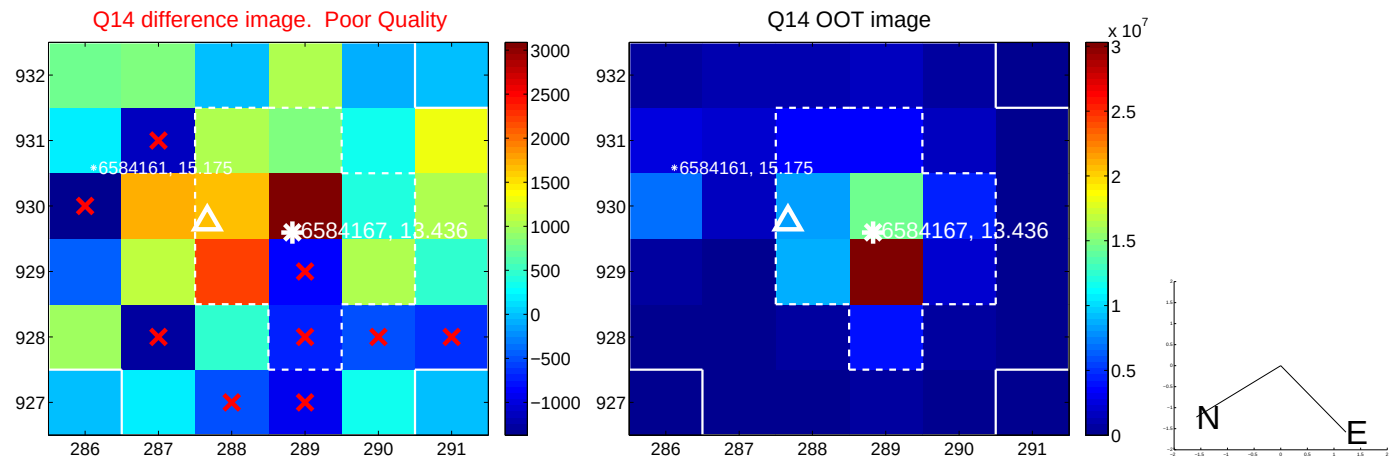


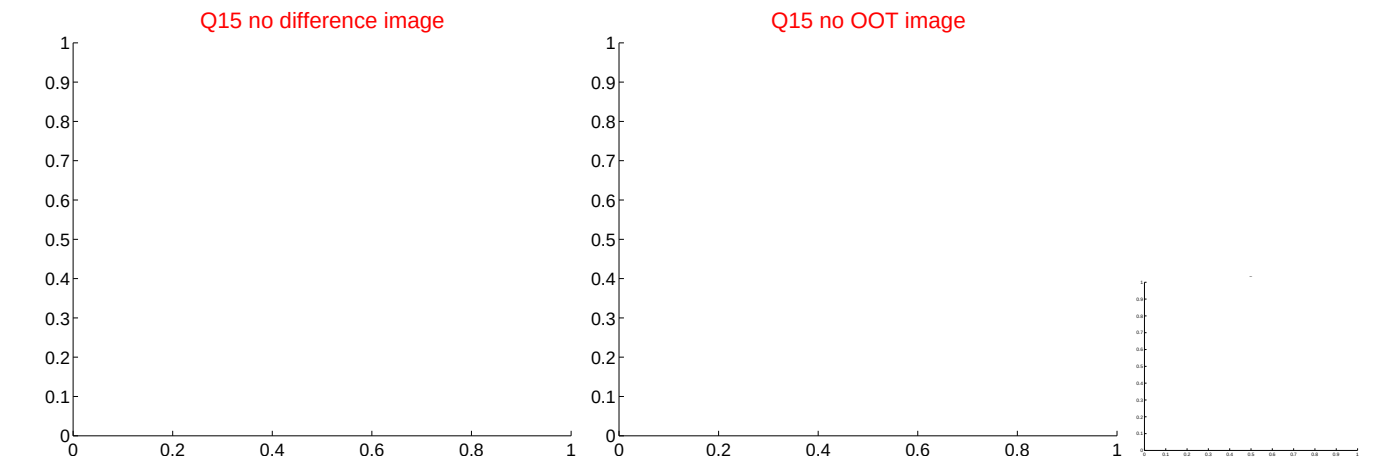


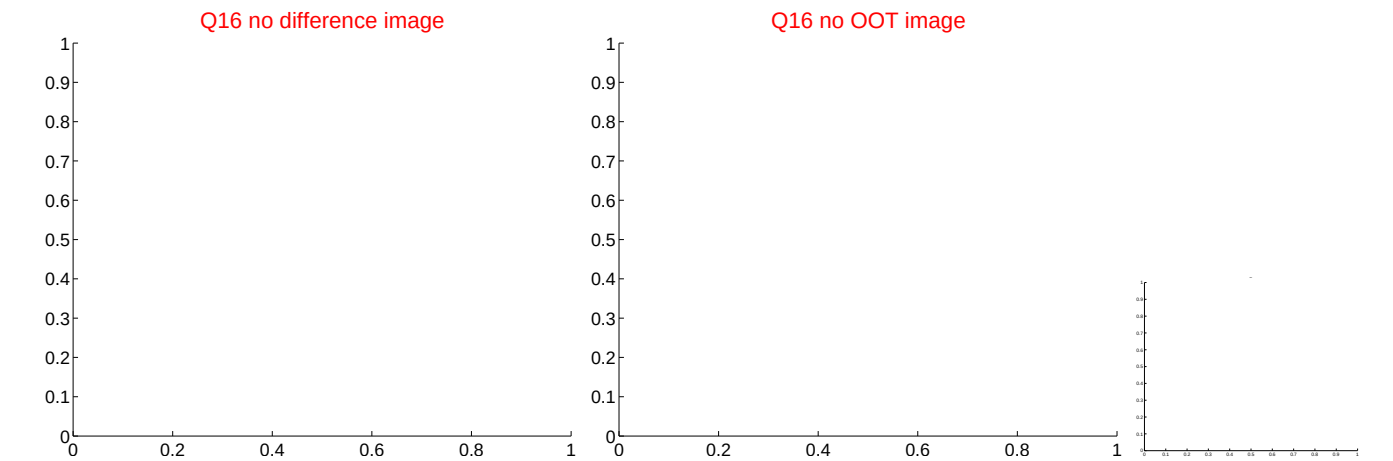


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

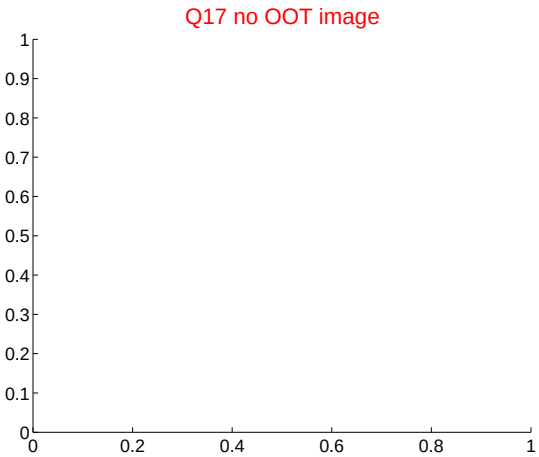


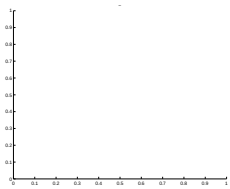


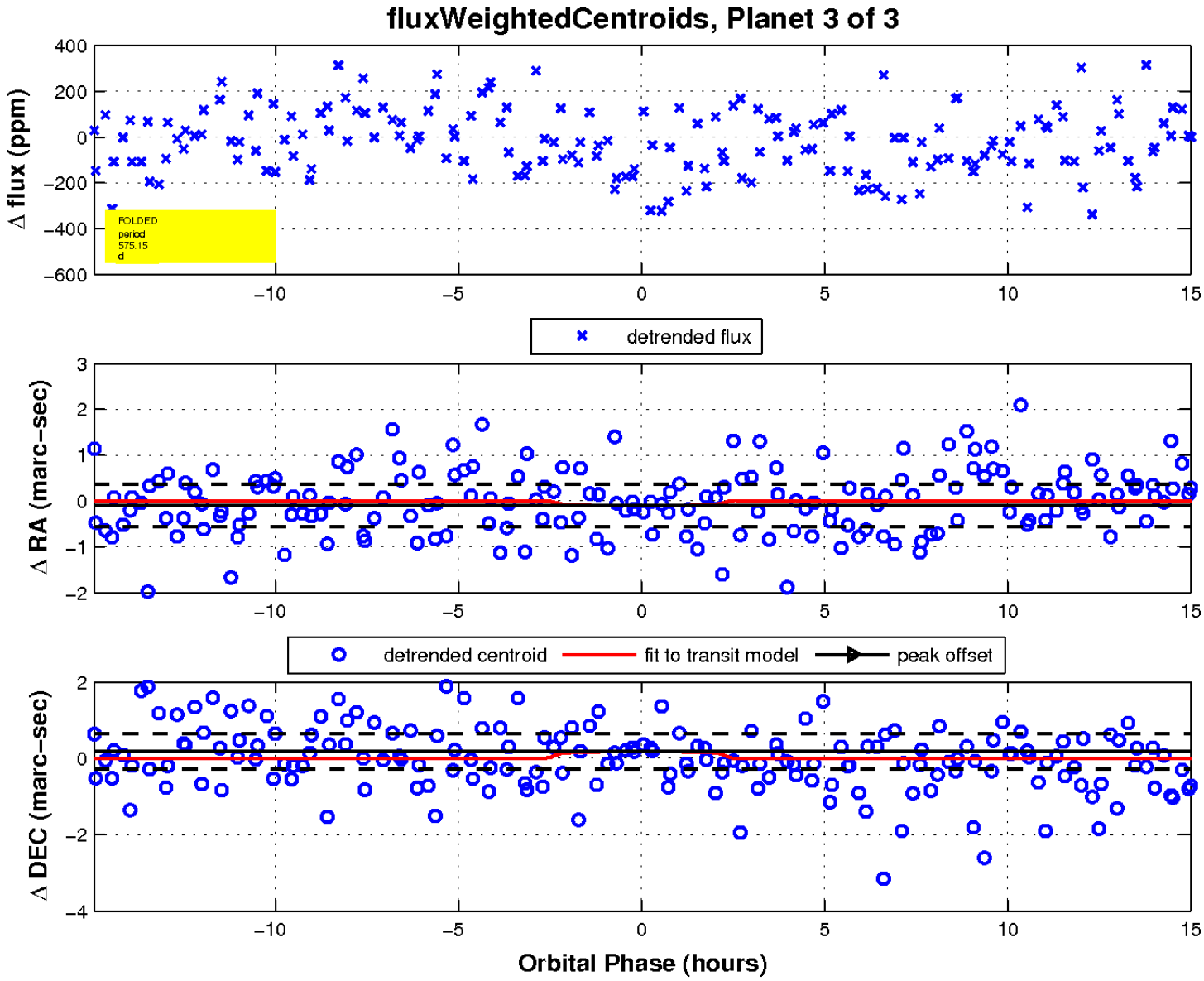
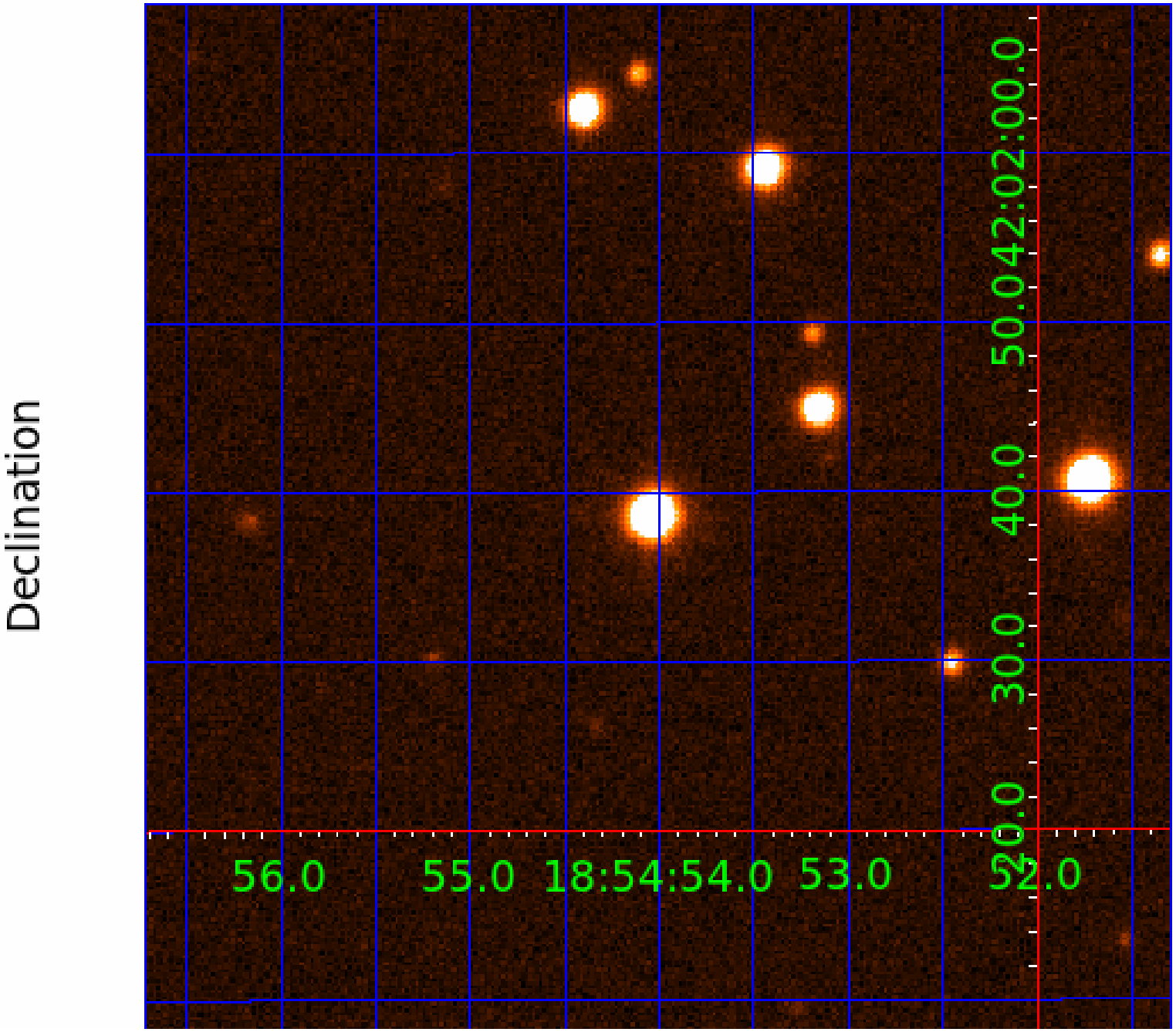




white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.







UKIRT Image