KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

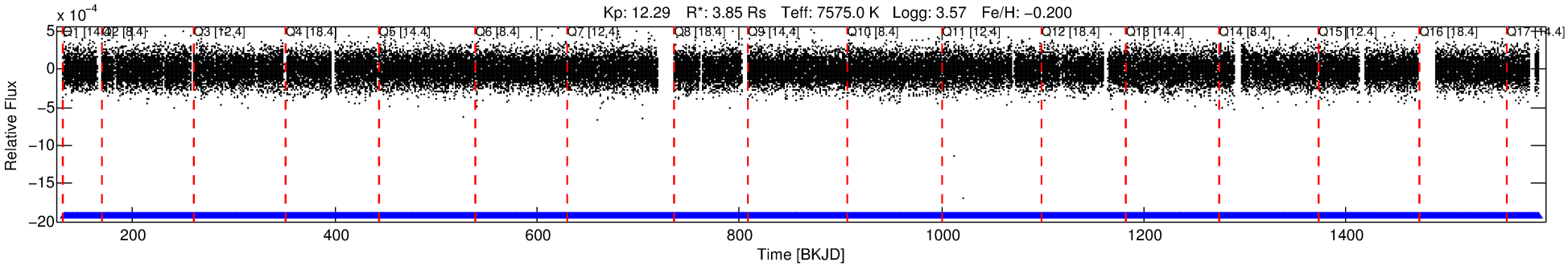
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

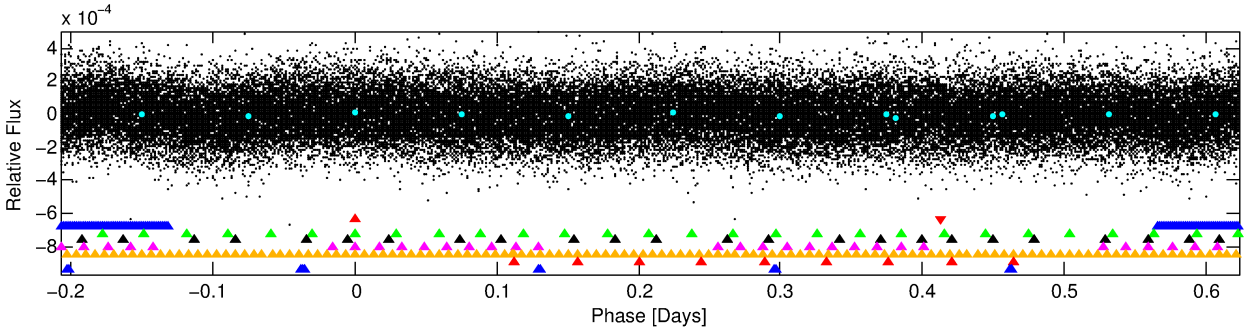
Ephemeris Match Information For 006367260-01

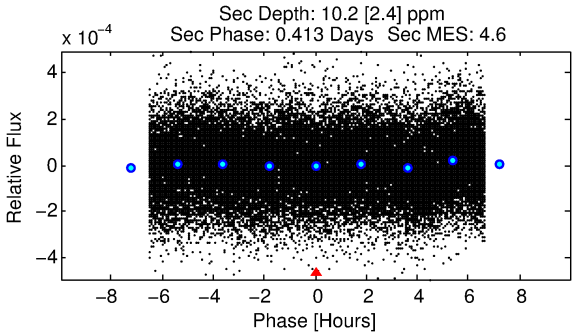
No Significant Match Found

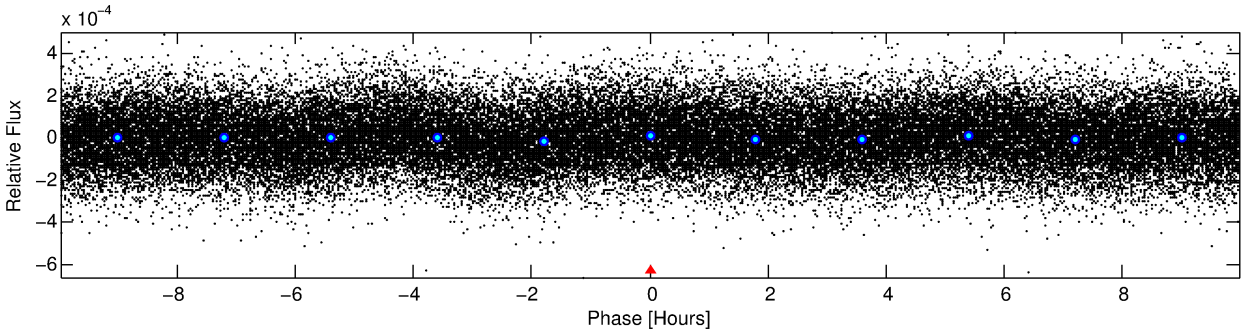
DV One-Page Summary

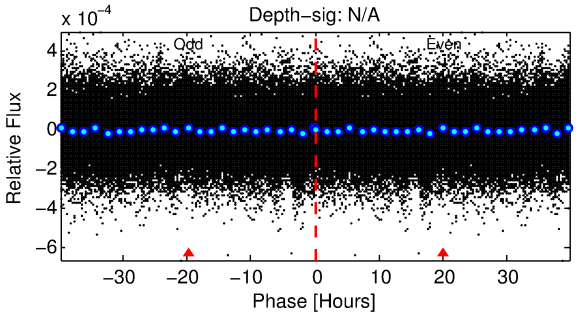
KIC: 6367260 Candidate: 1 of 8 Period: 0.832 d

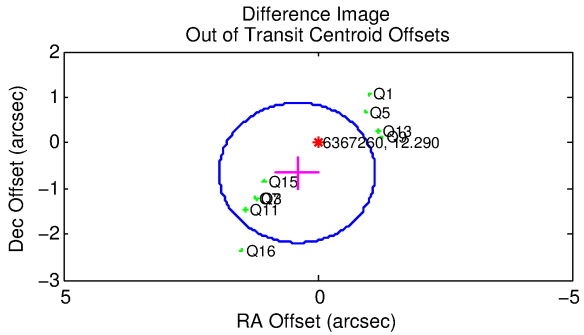












TPS TCE Results:

Period = 0.83155 d
Epoch = 131.8704 BKJD

DV fit results are unavailable

DV Diagnostic Results:

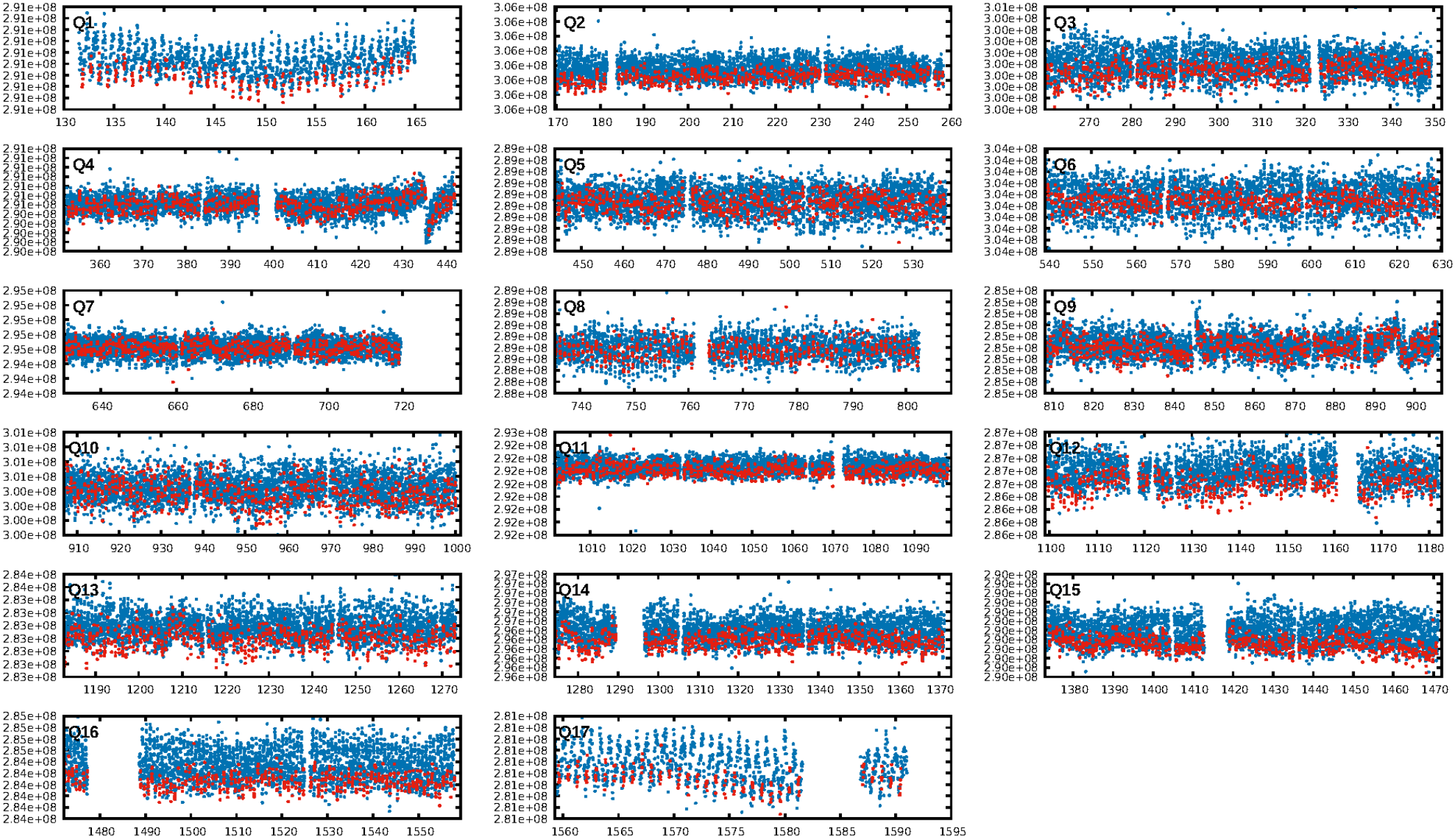
ShortPeriod−sig: 0.0% [0.00σ]
LongPeriod−sig: 100.0% [116.07σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: 4.78e−15
RollingBand−fgt: 1.00 [1555/1555]
GhostDiagnostic−chr: 0.255

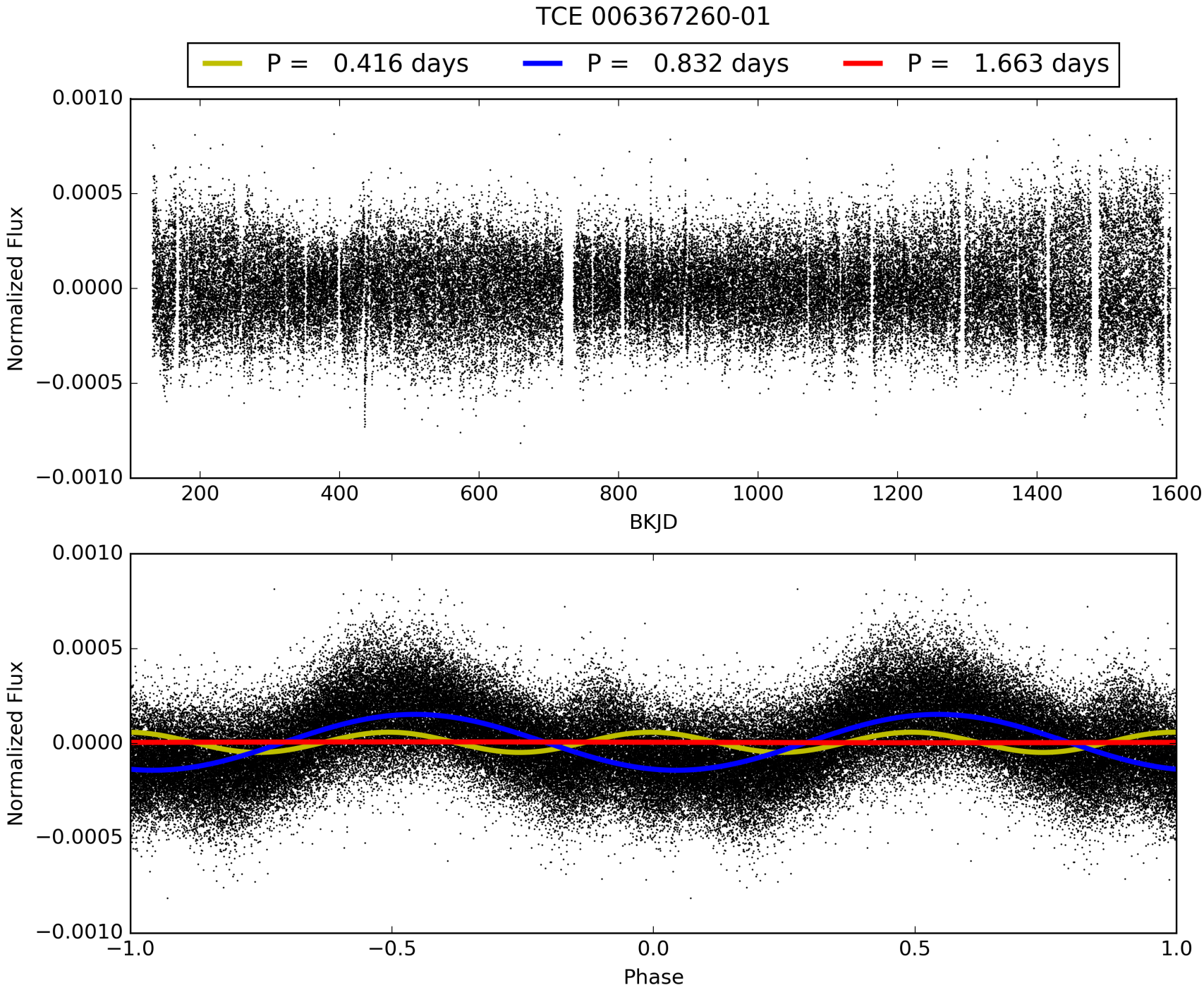
Centroid−sig: 5.4%
Centroid−so: 0.071 arcsec [1.23σ]
OotOffset−rm: 0.768 arcsec [1.50σ]
KicOffset−rm: 0.943 arcsec [1.86σ]
OotOffset−st: 0/4/1/4 [9]
KicOffset−st: 0/4/1/4 [9]
DiffImageQuality−fgm: 1.00 [9/9]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:05:32 Z

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

TCE 006367260-01, PDC Light Curves

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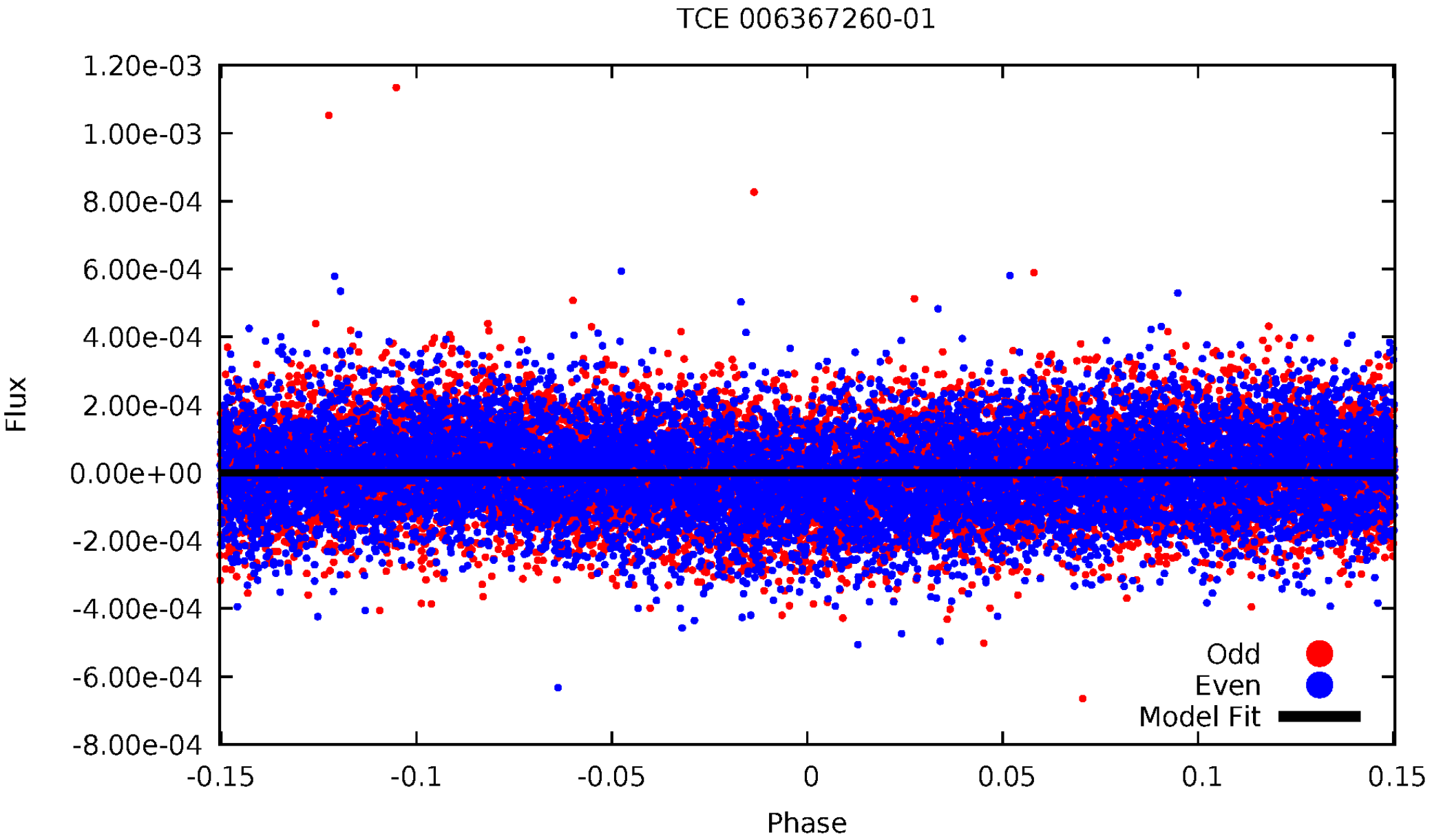
P = 0.416 days
P = 0.832 days
P = 1.663 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

DV Odd/Even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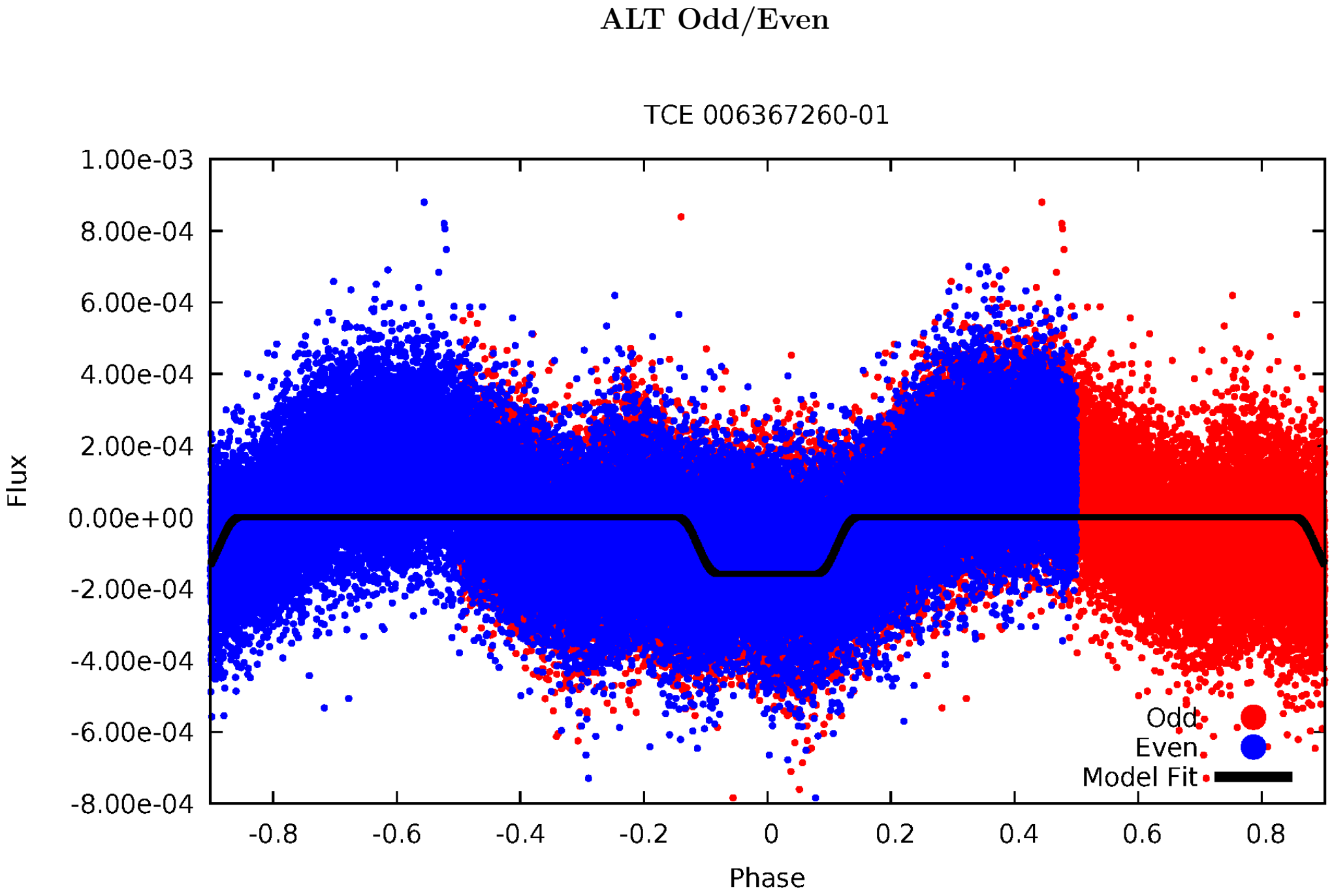
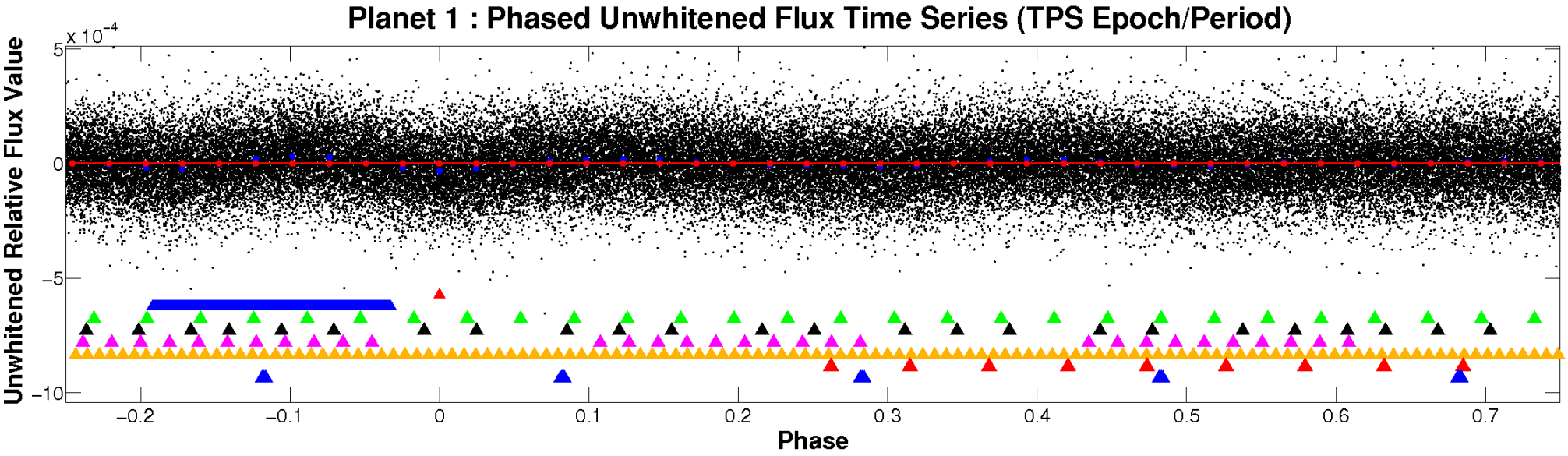
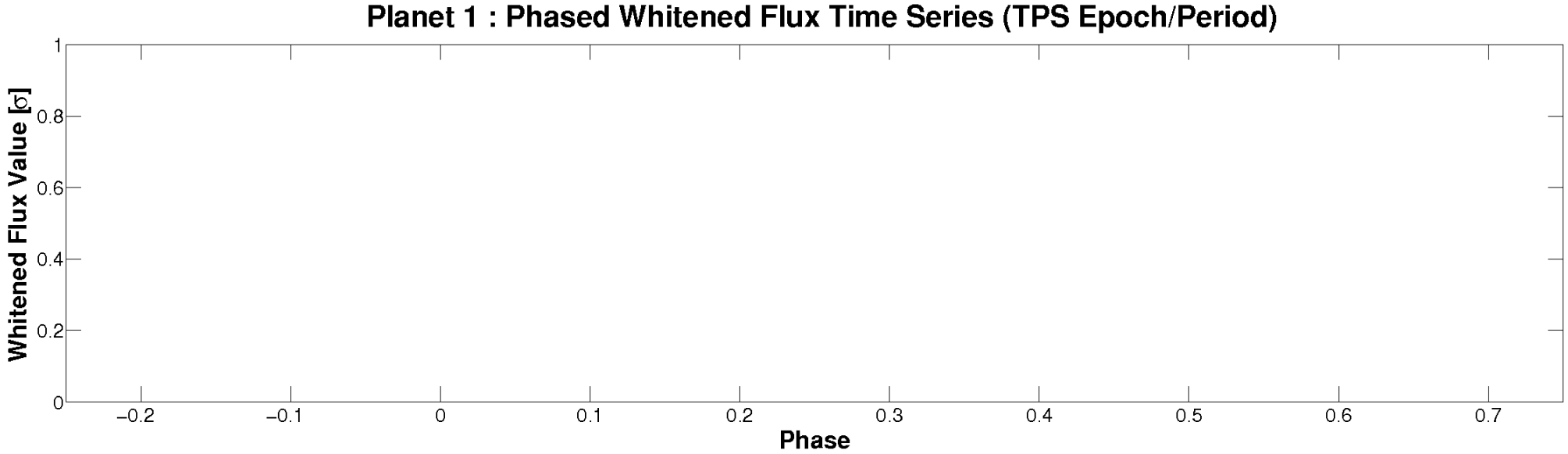
1.00e-03
8.00e-04
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
-8.00e-04
Flux
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-01
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
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
Phase
Odd
Even
Model Fit

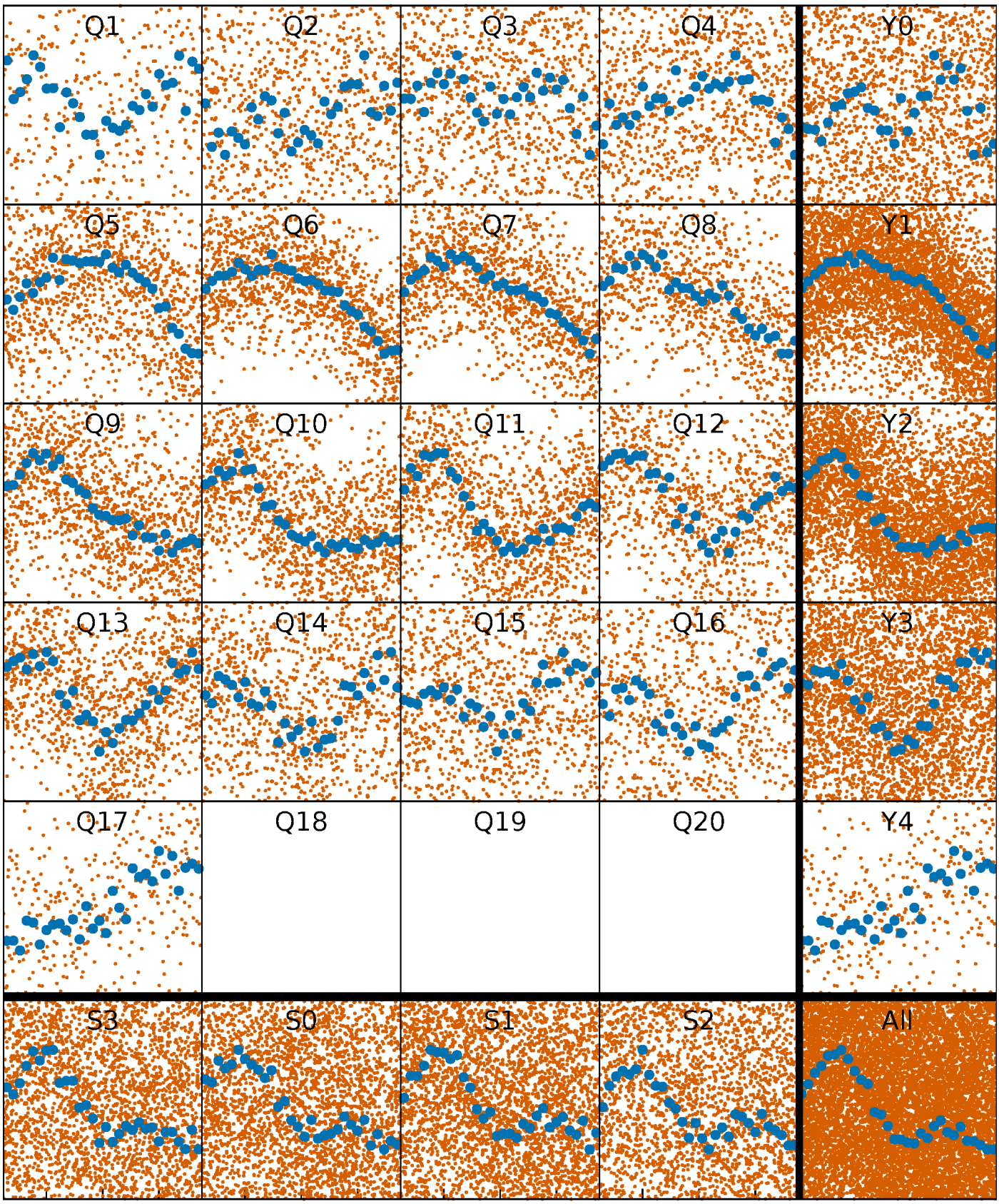
Non-Whitened Vs. Whitened Light Curve





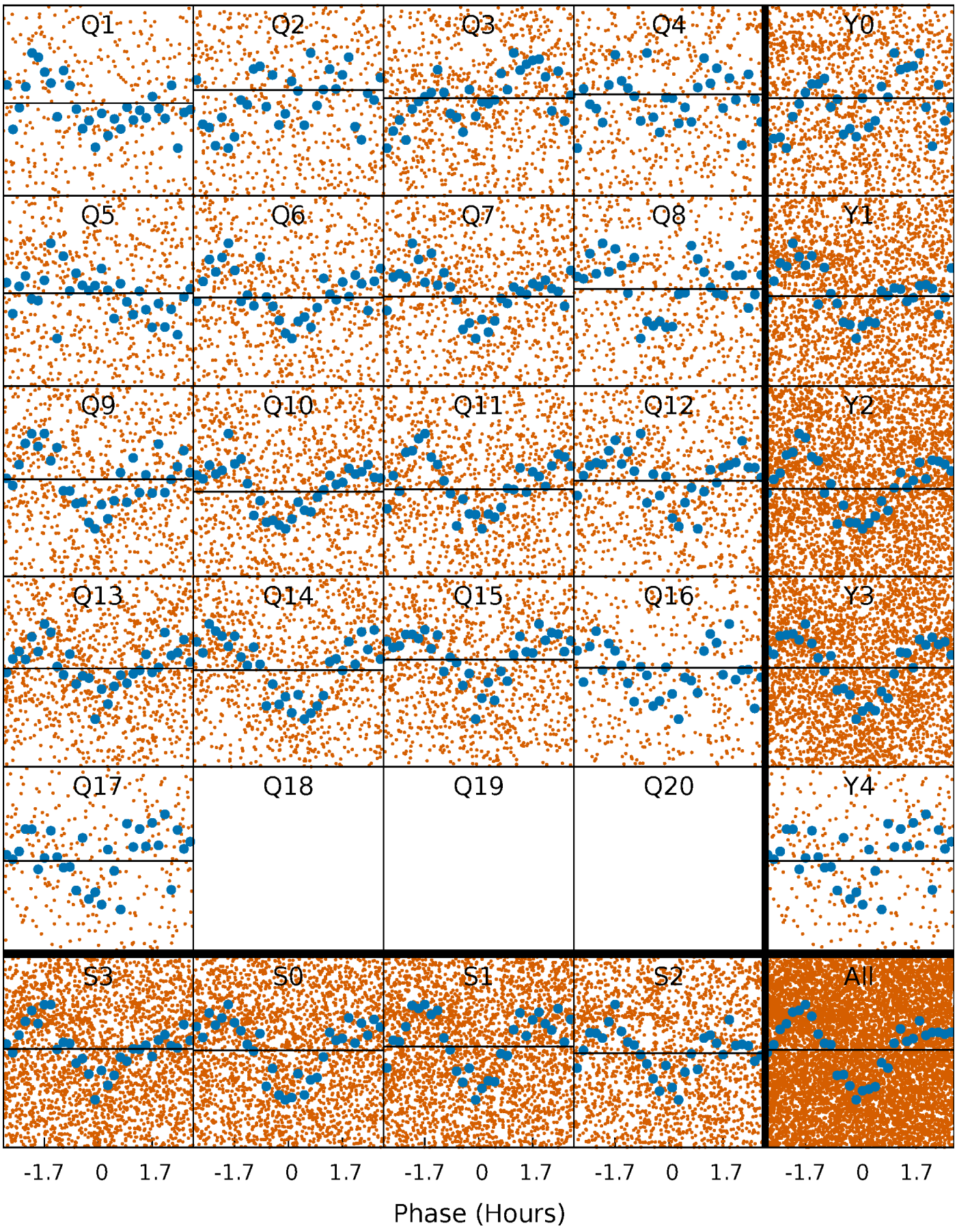
PDC Quarter-Phased Transit Curves

TCE 006367260-01 P= 0.831545 Days T_0=131.870369 (BKJD)



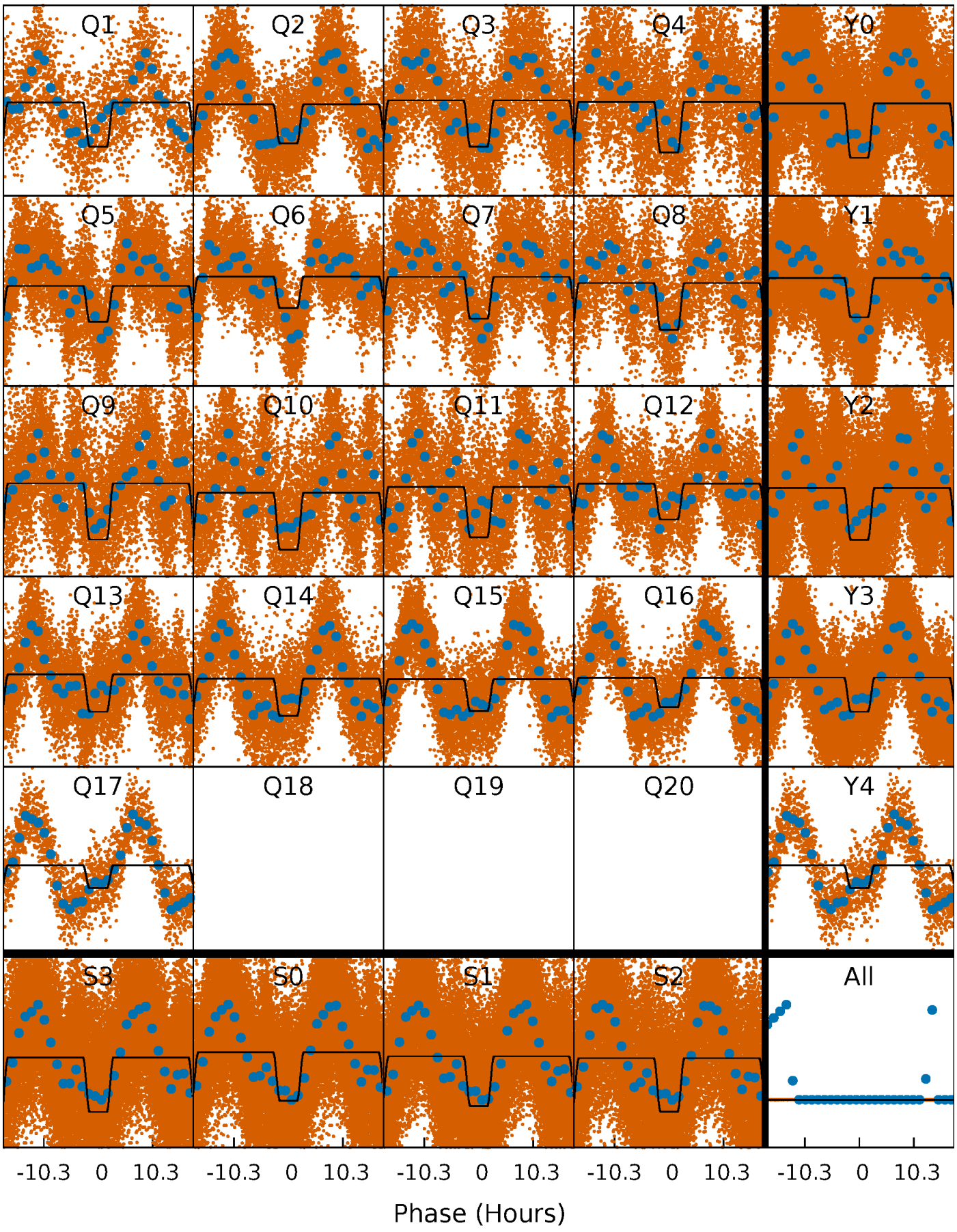
DV Quarter-Phased Transit Curves

TCE 006367260-01 P= 0.831545 Days T_0=131.870369 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

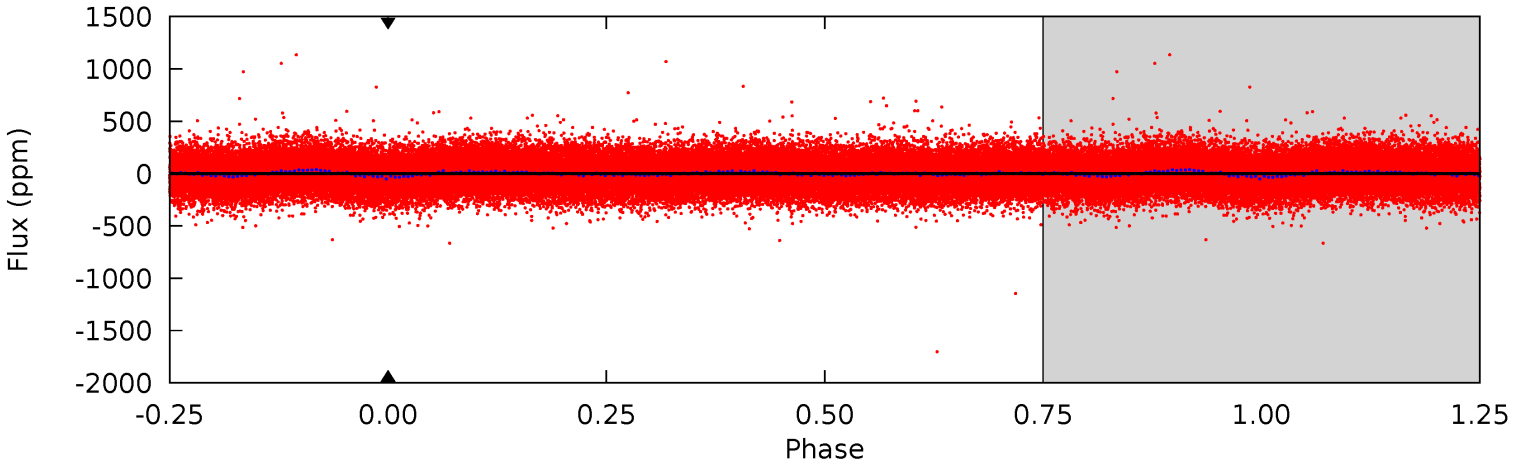
TCE 006367260-01 P= 0.831545 Days T_0=131.975500 (BKJD)

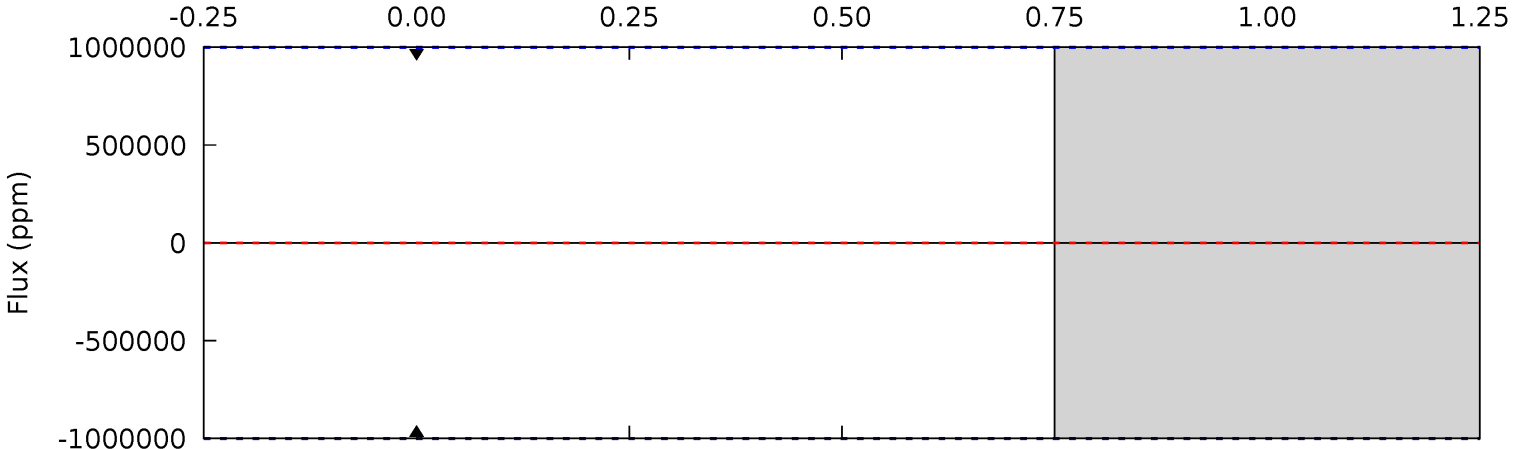


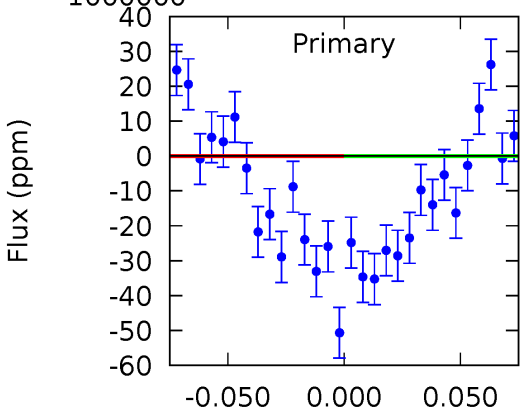
DV Model-Shift Uniqueness Test

006367260-01, P = 0.831545 Days, E = 131.038824 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



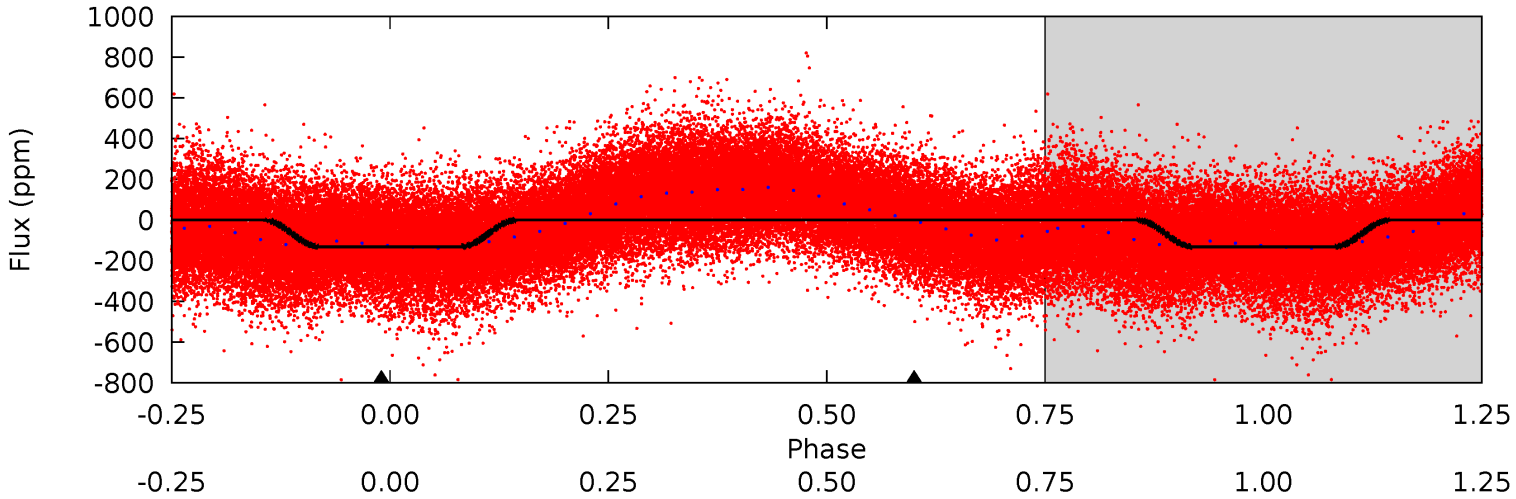


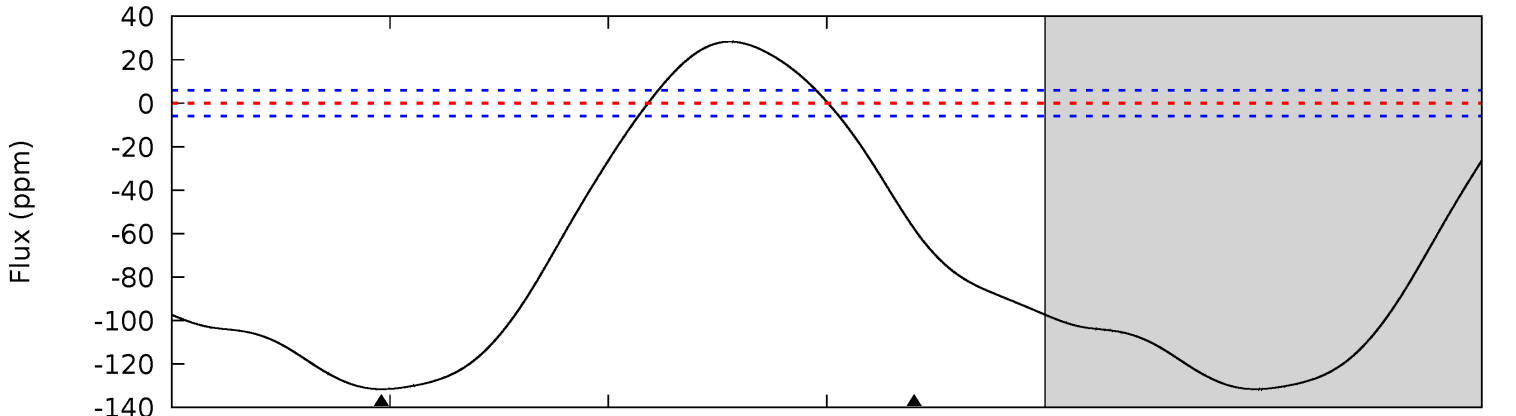


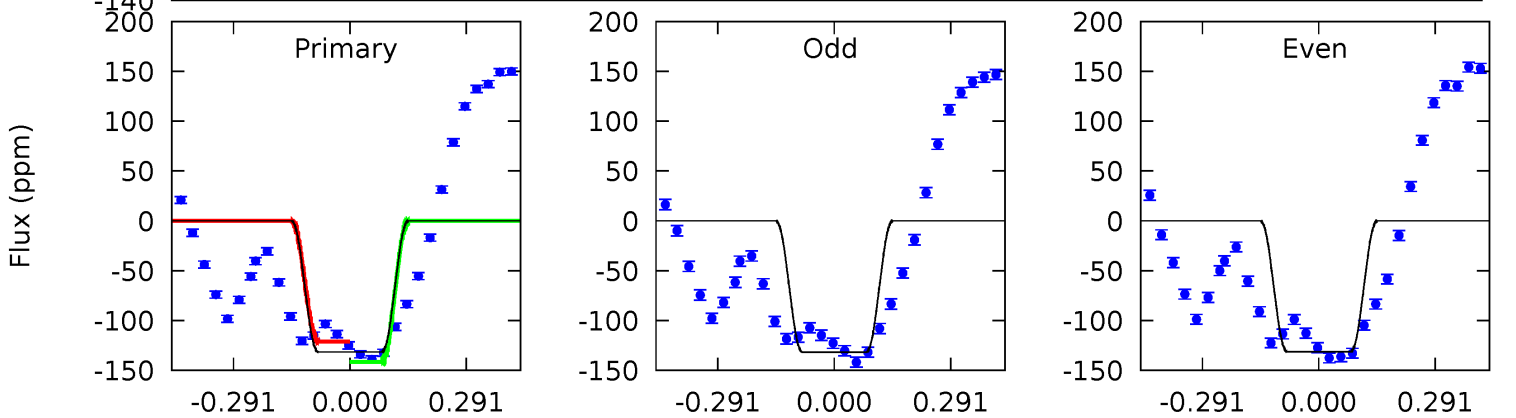
Alt Model-Shift Uniqueness Test

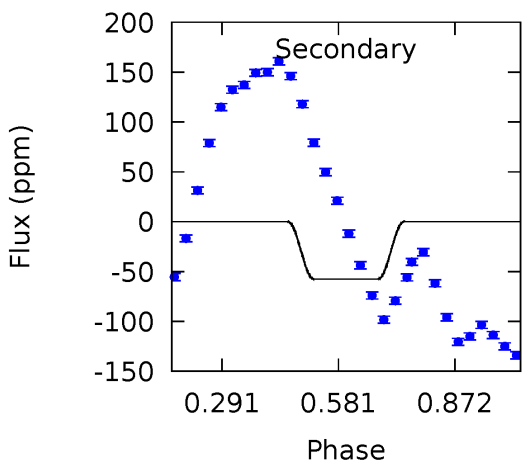
006367260-01, P = 0.831545 Days, E = 131.143955 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
96.7	42.4	0	0	4.34	1.06	11.1	96.7	96.7	42.4	42.4	0.26	1.05	0.18	8.71









Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0±1000000	$26.62^{+28.11}_{-18.92}$	5898^{+431}_{-838}	-5017^{+48321}_{-30835}	$-0.130^{+70.568}_{-57.053}$
Alt.	-58±1	$24.59^{+32.00}_{-17.98}$	5895^{+445}_{-842}	-4628^{+7903}_{-431}	$0.024^{+0.312}_{-0.019}$

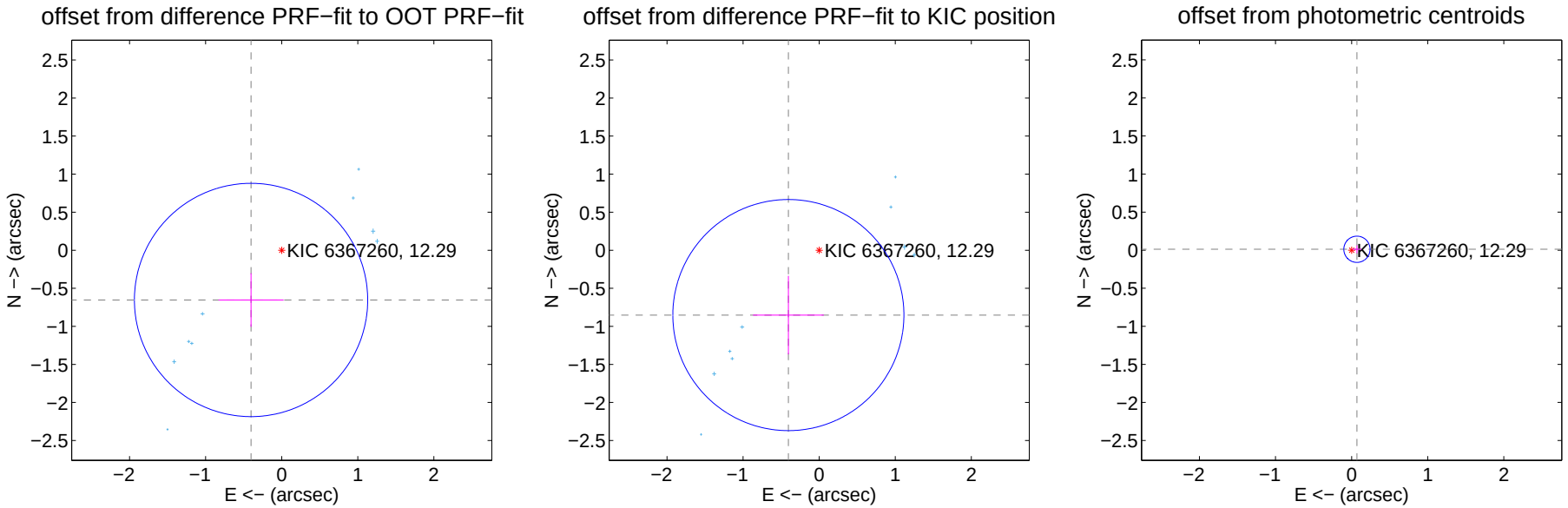
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

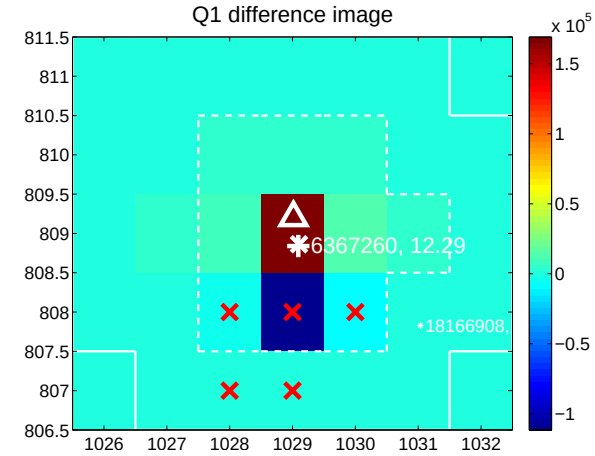
Supplemental centroid analysis for 006367260-01. Kepler magnitude: 12.29. Transit SNR -1.00
There are 9 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

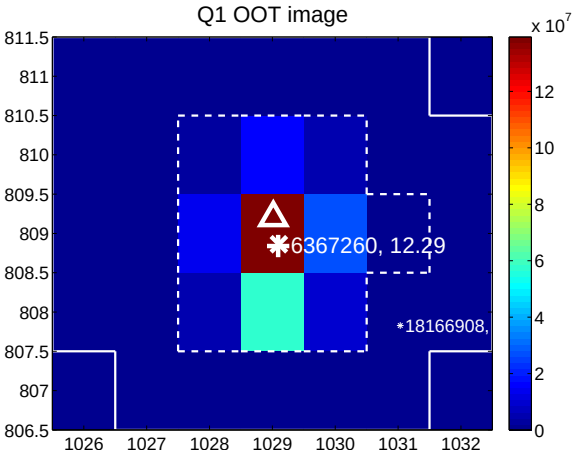
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.768 ± 0.511	1.50	0.403 ± 0.428	-0.654 ± 0.352
PRF-fit source offset from KIC position	0.943 ± 0.506	1.86	0.405 ± 0.465	-0.852 ± 0.515
photometric centroid source offset	0.07 ± 0.06	1.23	-0.07 ± 0.06	0.01 ± 0.05

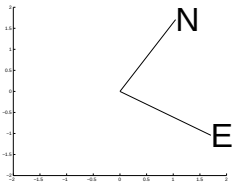


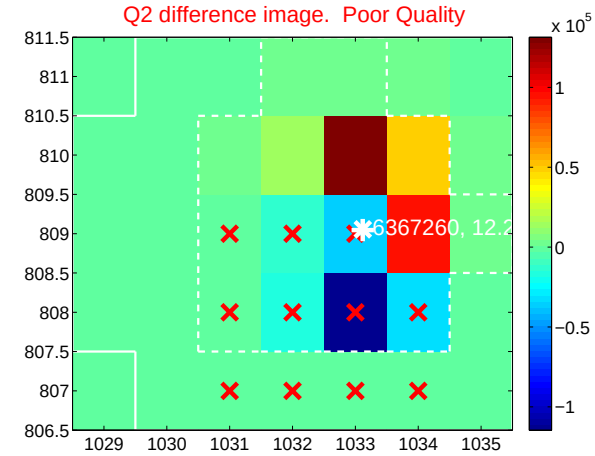
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

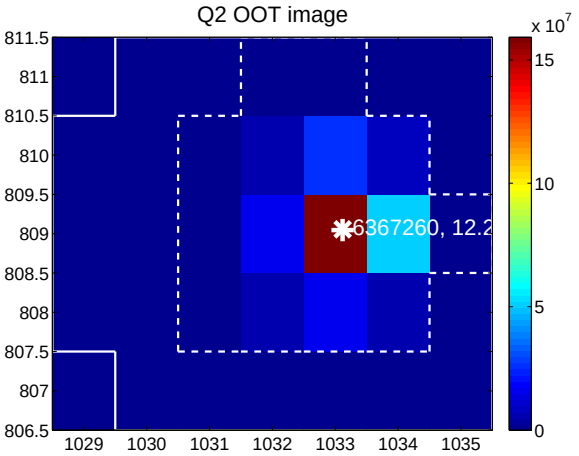
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

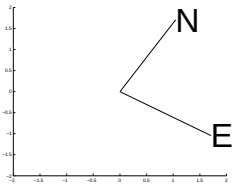


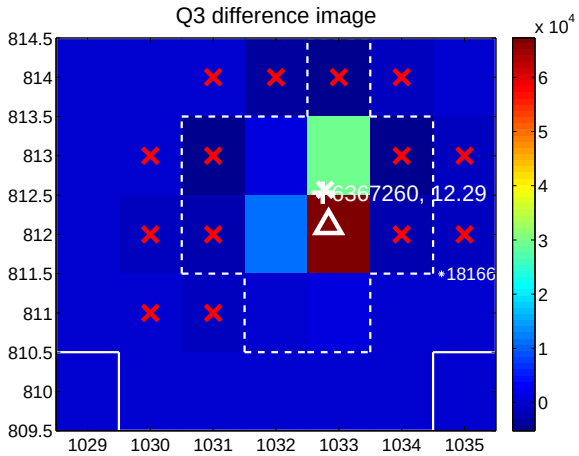


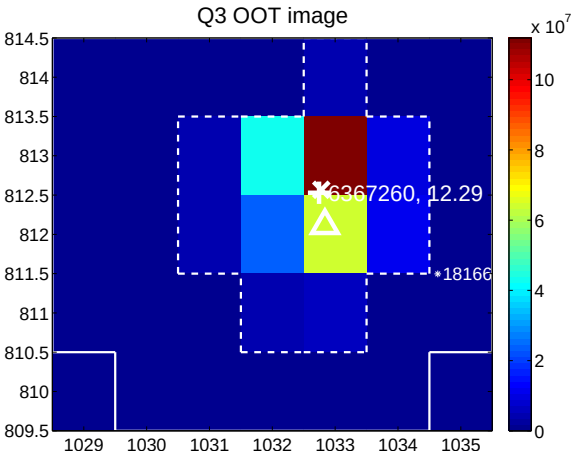


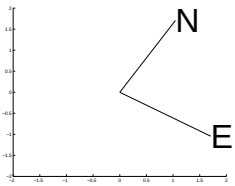


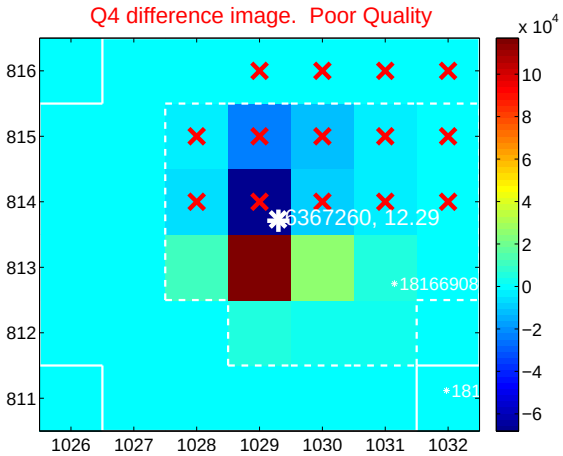


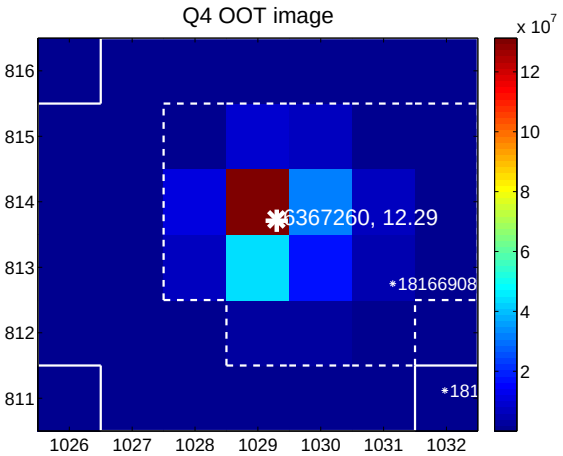


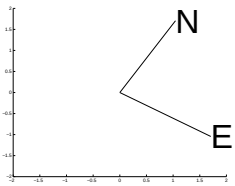




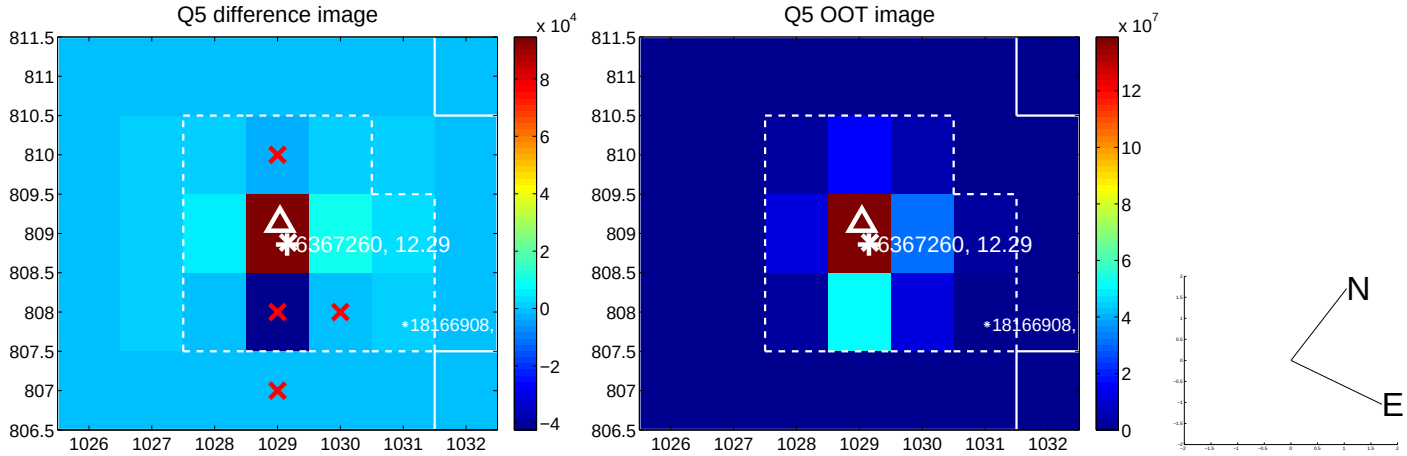


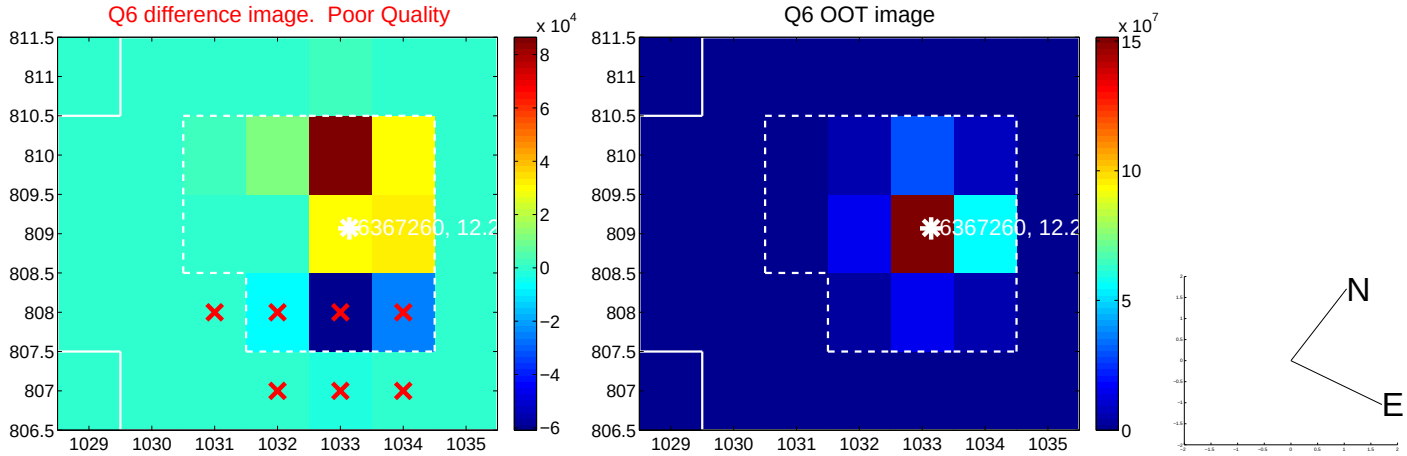


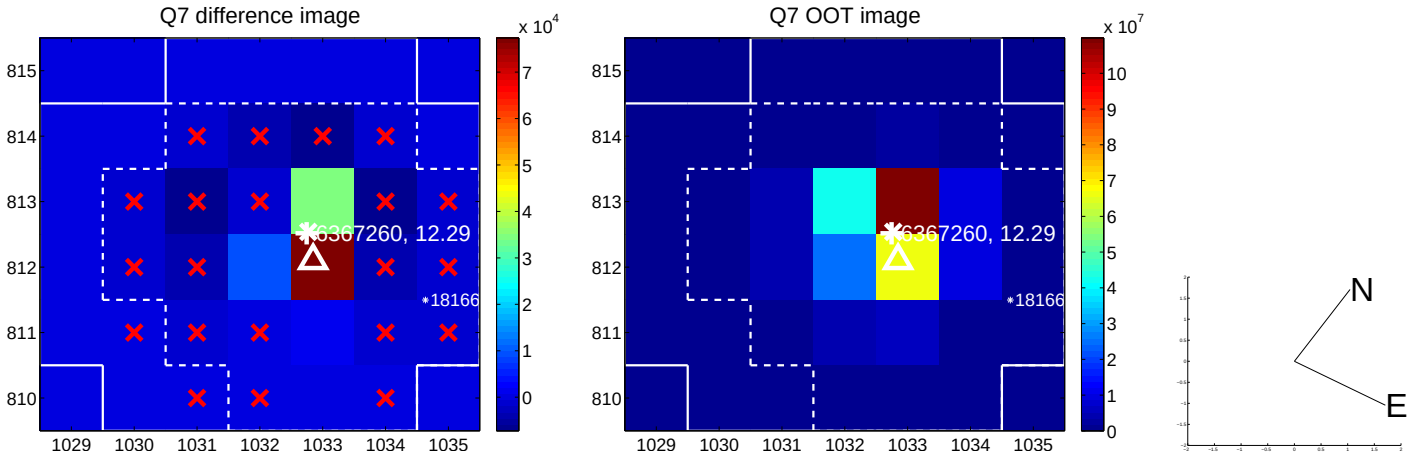


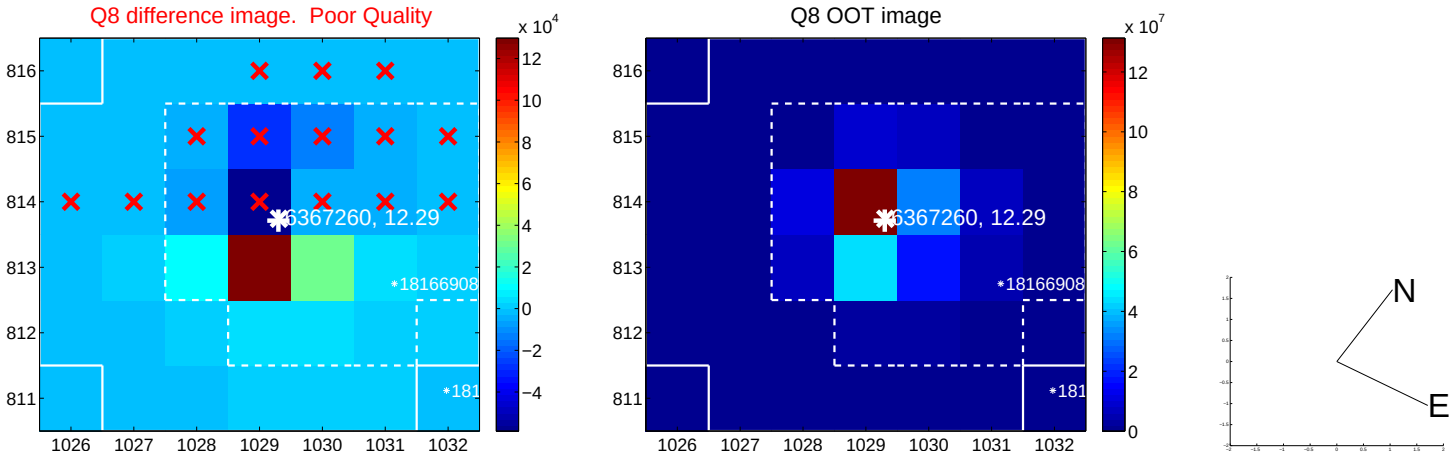


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

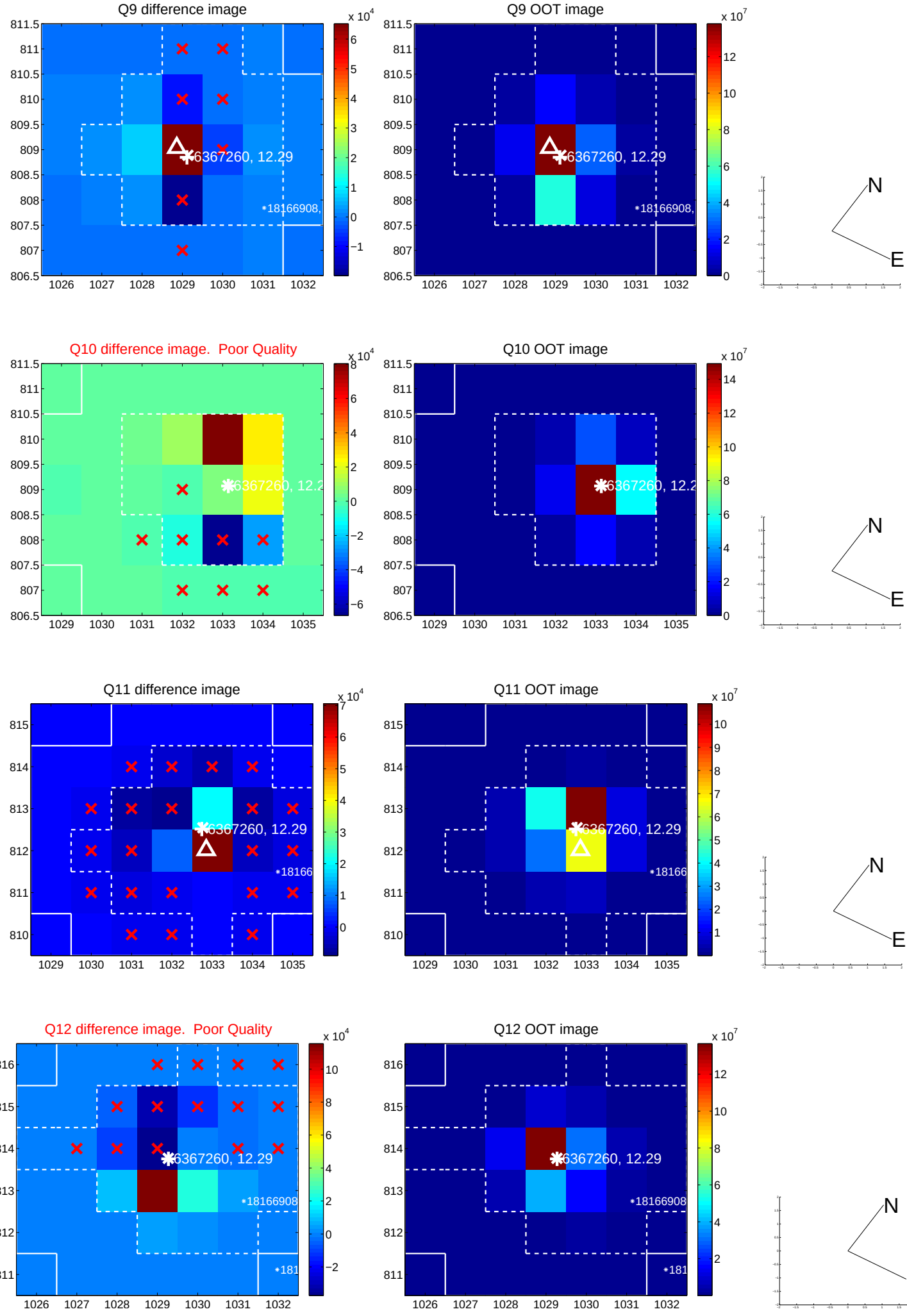




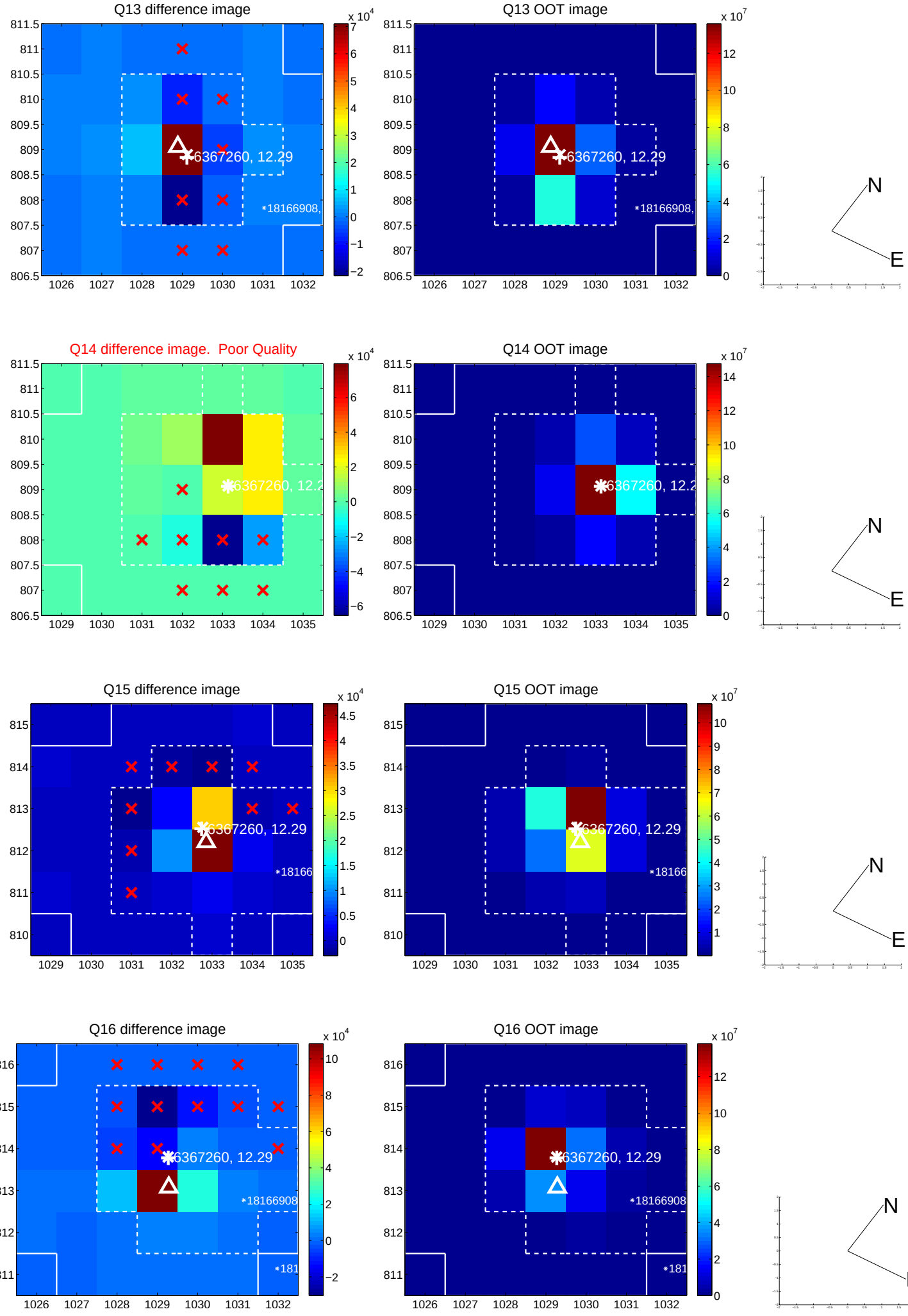




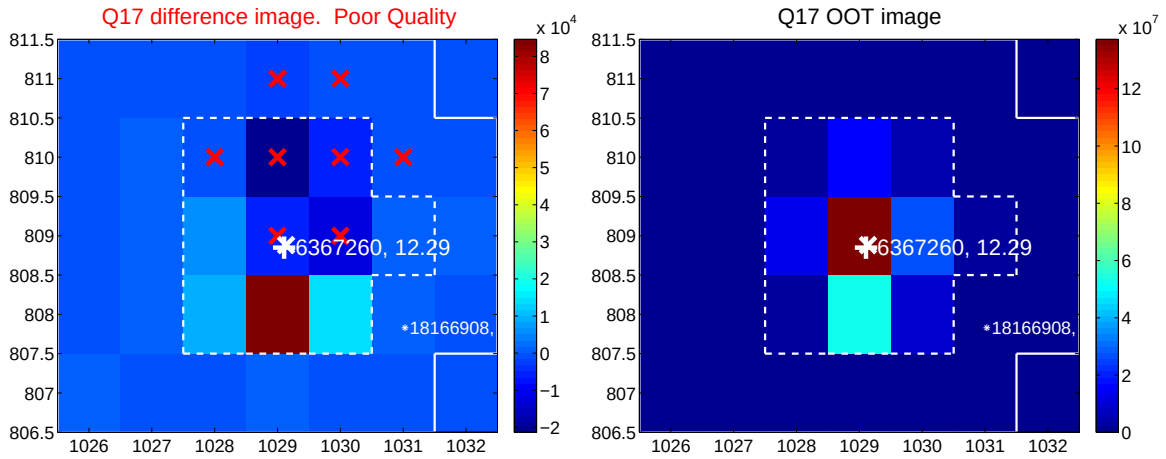
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

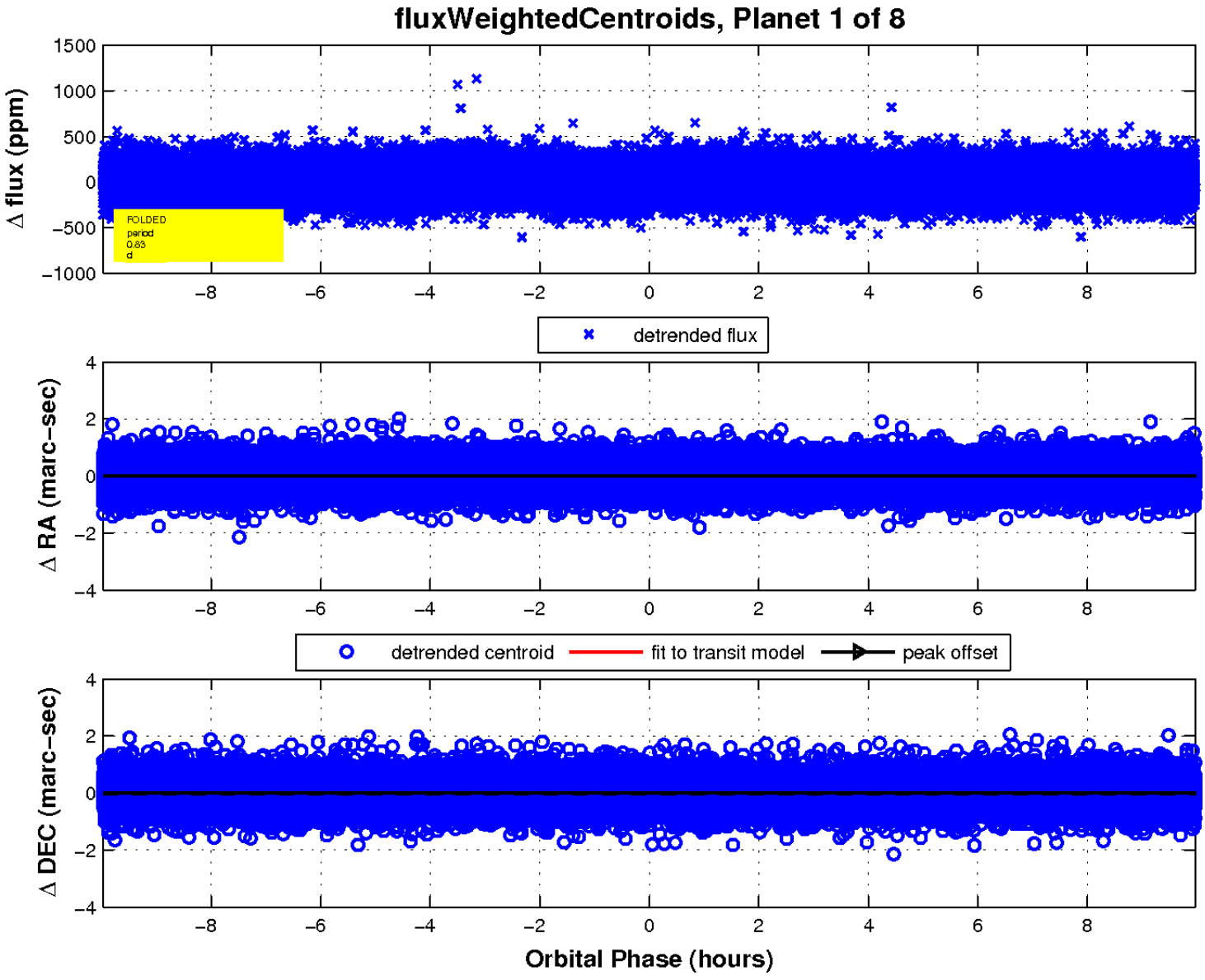


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

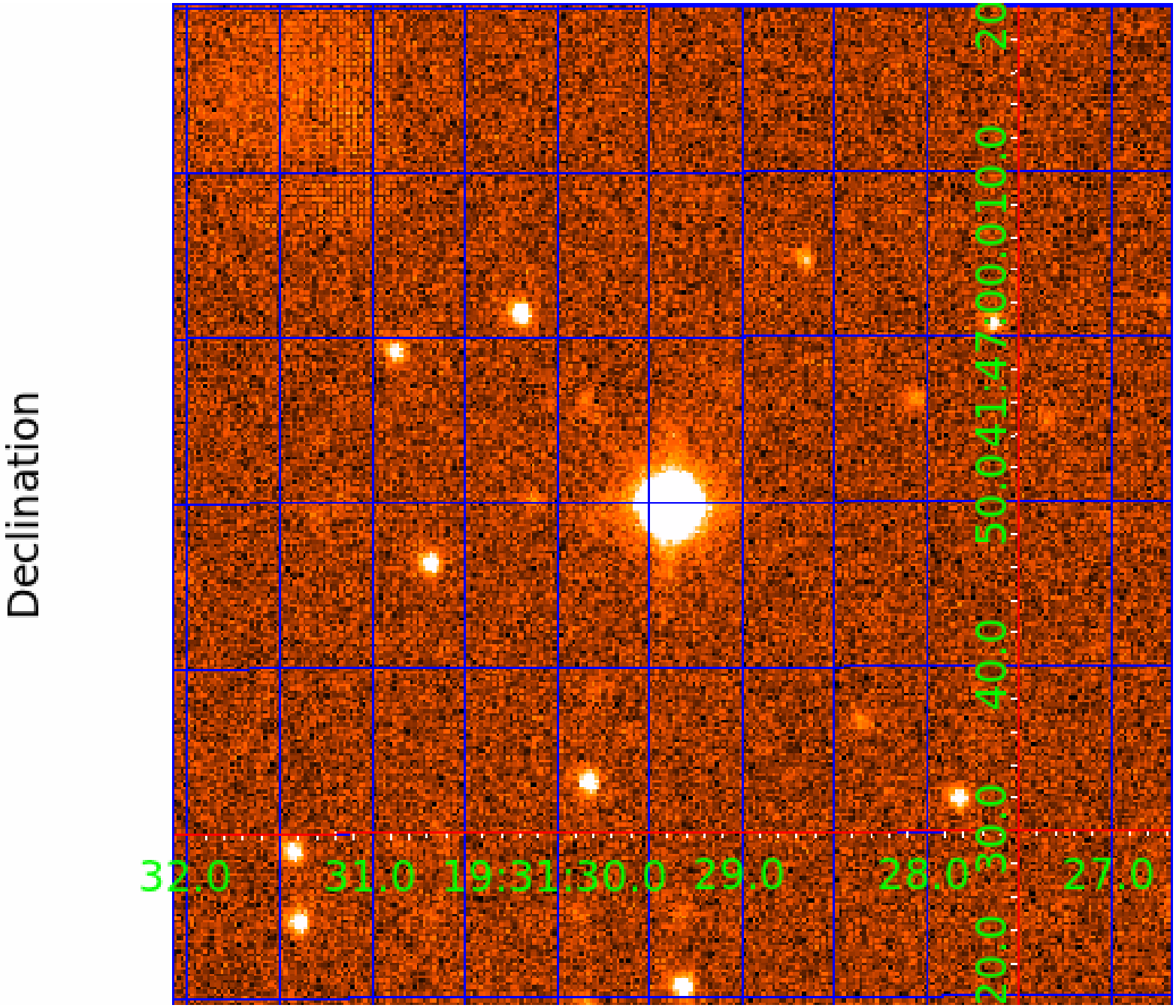


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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10.0
20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

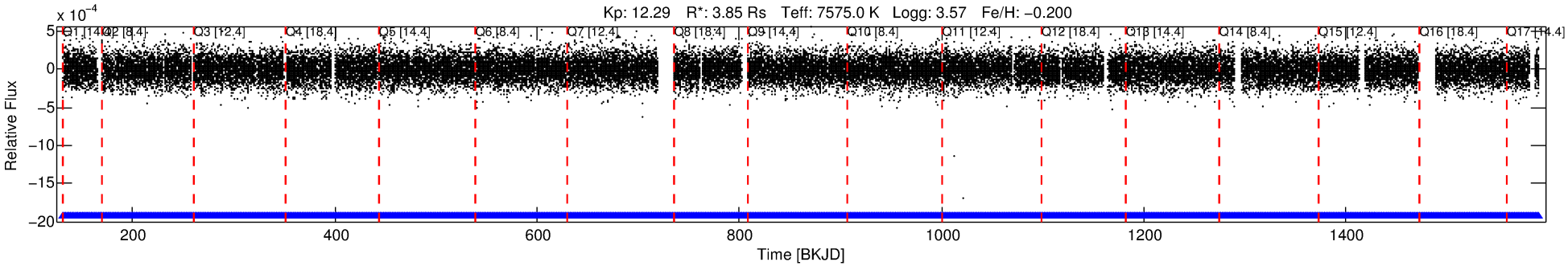
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

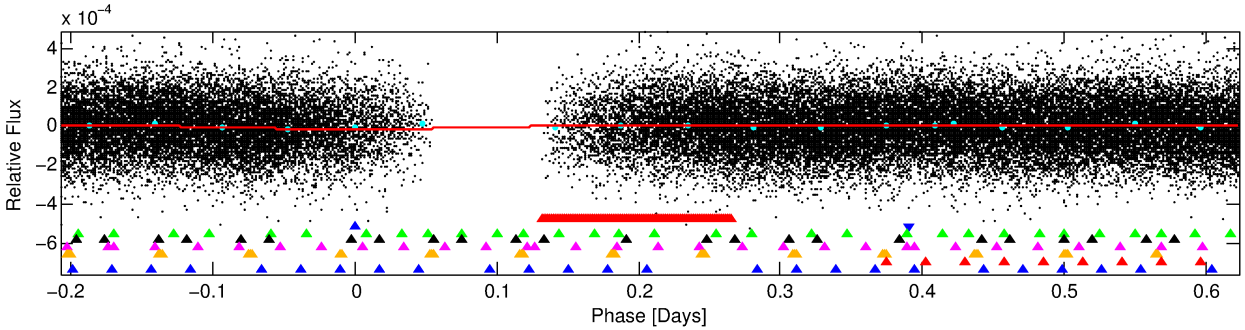
Ephemeris Match Information For 006367260-02

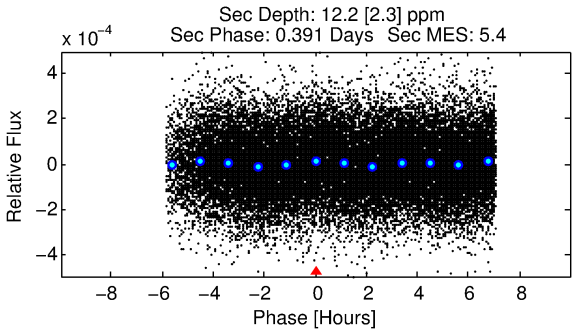
No Significant Match Found

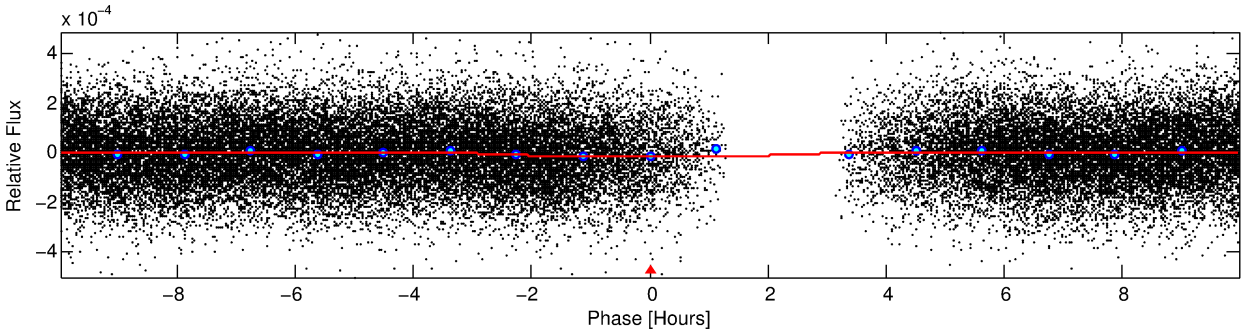
DV One-Page Summary

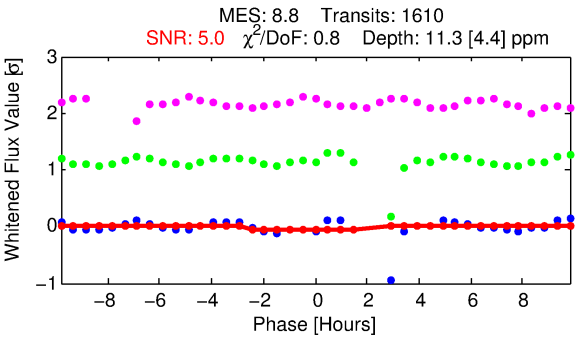
KIC: 6367260 Candidate: 2 of 8 Period: 0.831 d

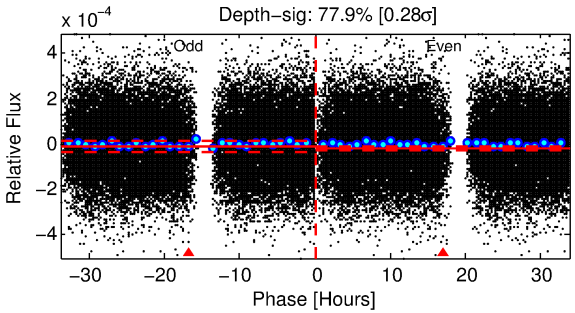


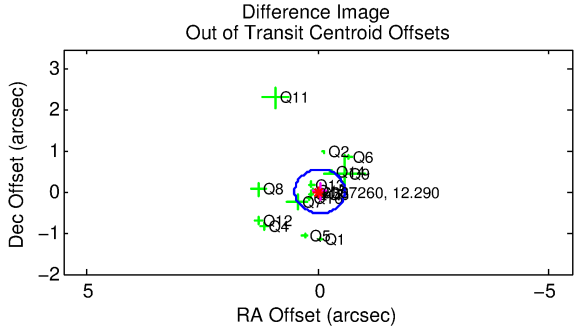












DV Fit Results:

Period = 0.83147 [0.00004] d
Epoch = 131.8432 [0.0179] BKJD
Rp/R* = 0.0033 [0.0021]
a/R* = 1.18 [1.10]
b = 0.64 [2.95]

Seff = 91663.21 [87286.62]
Teq = 4437 [1056] K
Rp = 1.37 [1.18] Re
a = 0.0218 [0.0125] AU

Ag = 1.71 [2.74] [0.26σ]
Teffp = 7842 [2577] K [1.22σ]

DV Diagnostic Results:

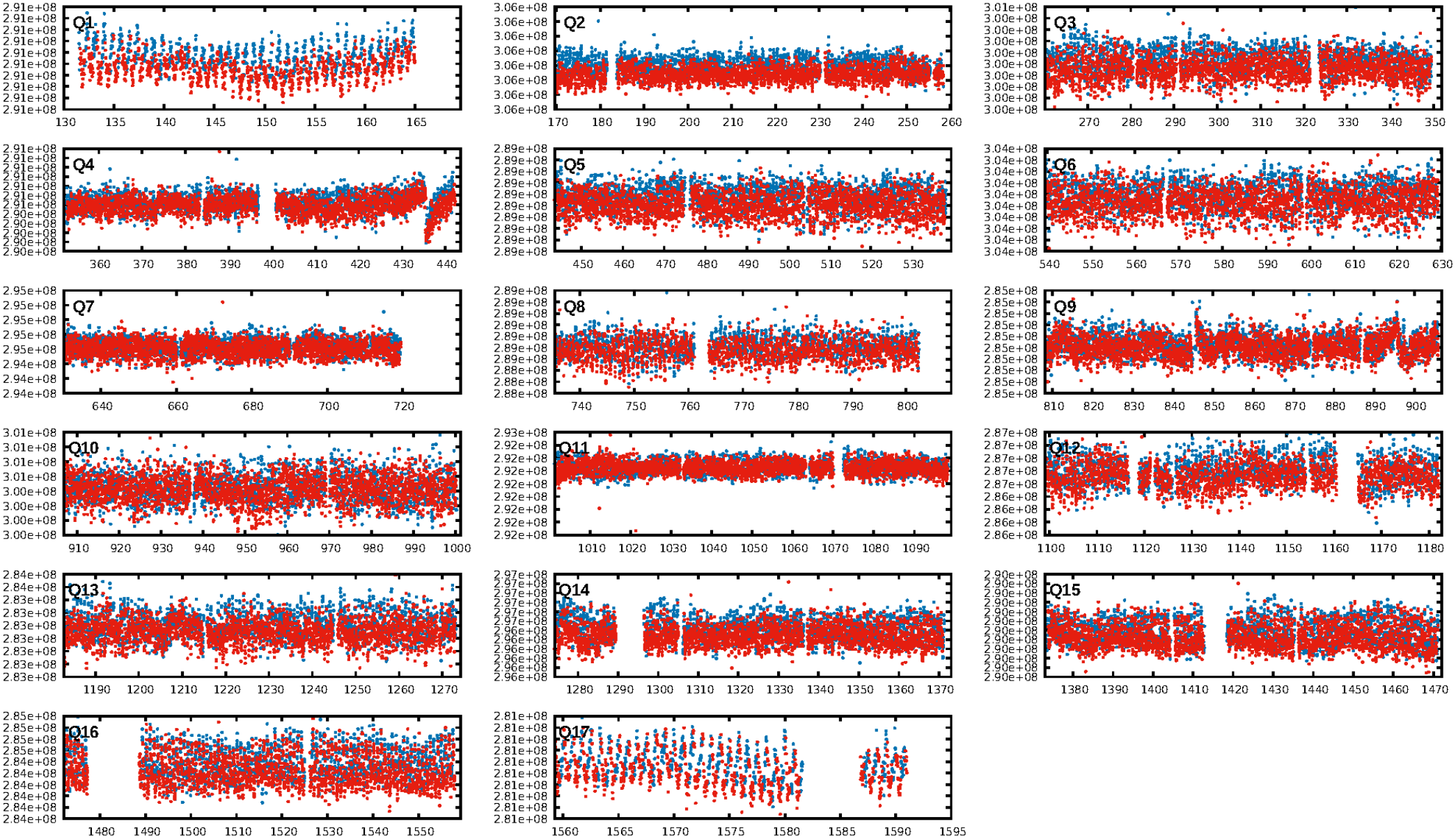
ShortPeriod−sig: N/A
LongPeriod−sig: 0.0% [0.00σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: 1.26e−08
RollingBand−fgt: 1.00 [1536/1536]
GhostDiagnostic−chr: 0.9238

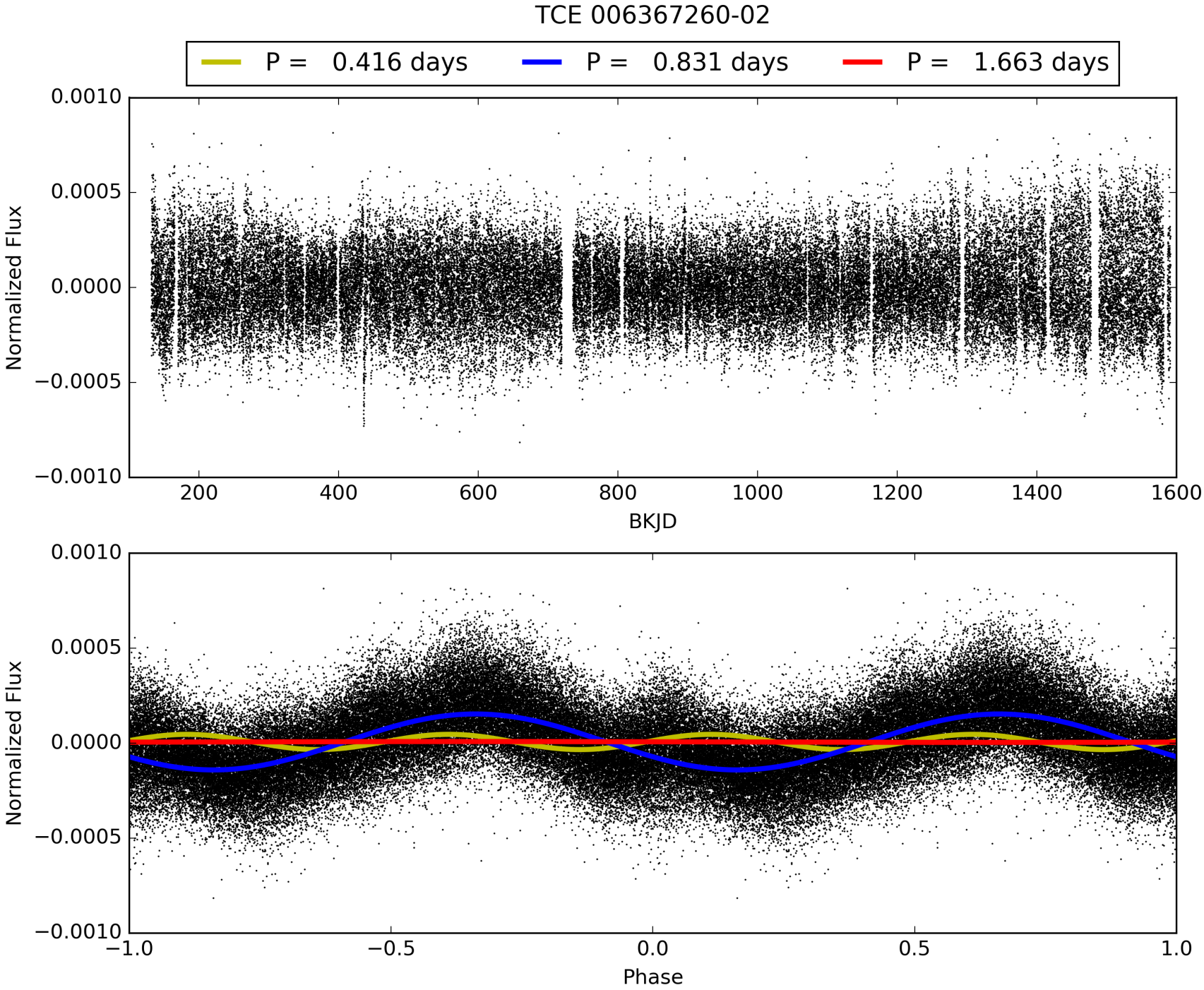
Centroid−sig: 2.0%
Centroid−so: 1.267 arcsec [1.68σ]
OotOffset−rm: 0.048 arcsec [0.27σ]
KicOffset−rm: 0.213 arcsec [1.06σ]
OotOffset−st: 3/4/4/5 [16]
KicOffset−st: 3/4/4/5 [16]
DiffImageQuality−fgm: 0.94 [15/16]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:05:47 Z

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

TCE 006367260-02, PDC Light Curves

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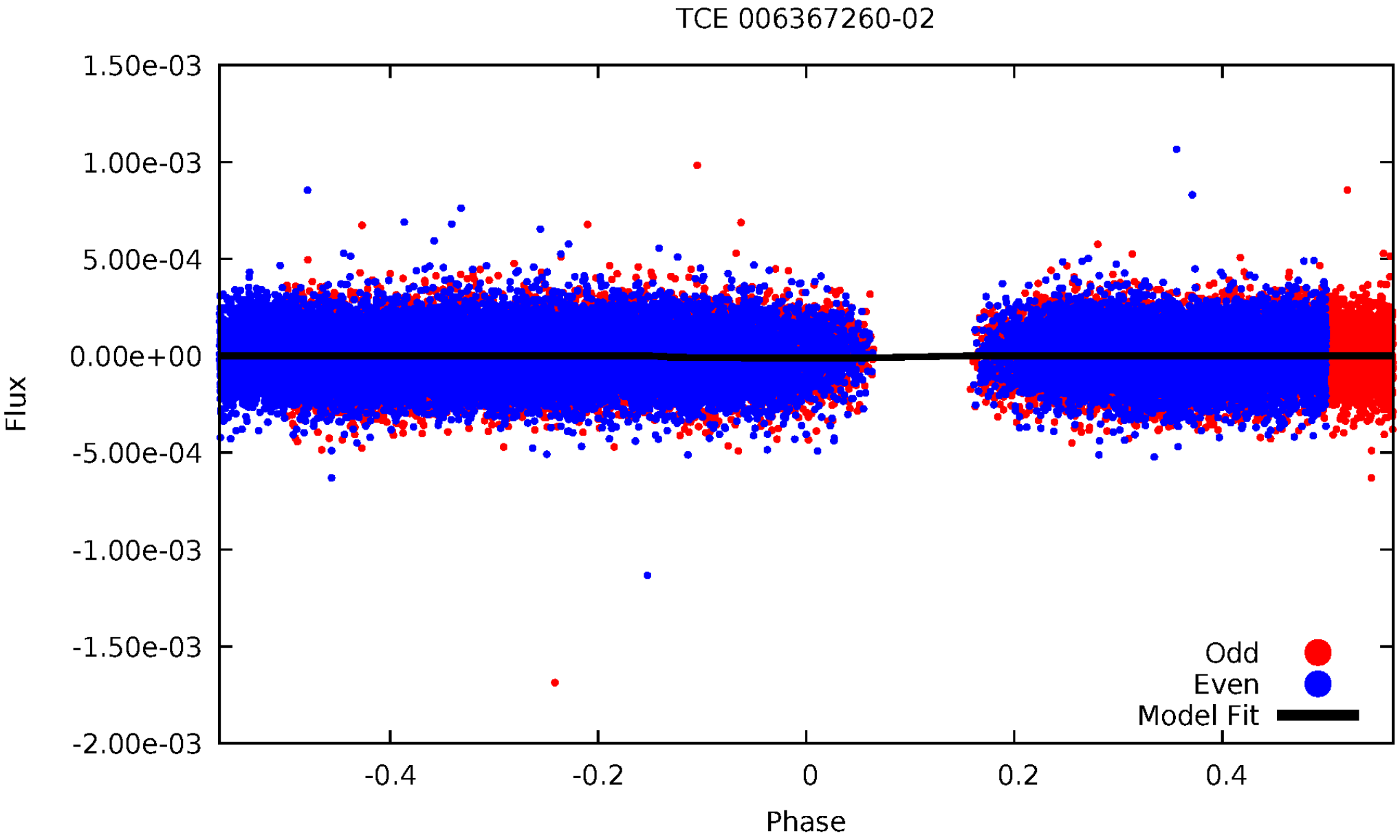
P = 0.416 days
P = 0.831 days
P = 1.663 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

DV Odd/Even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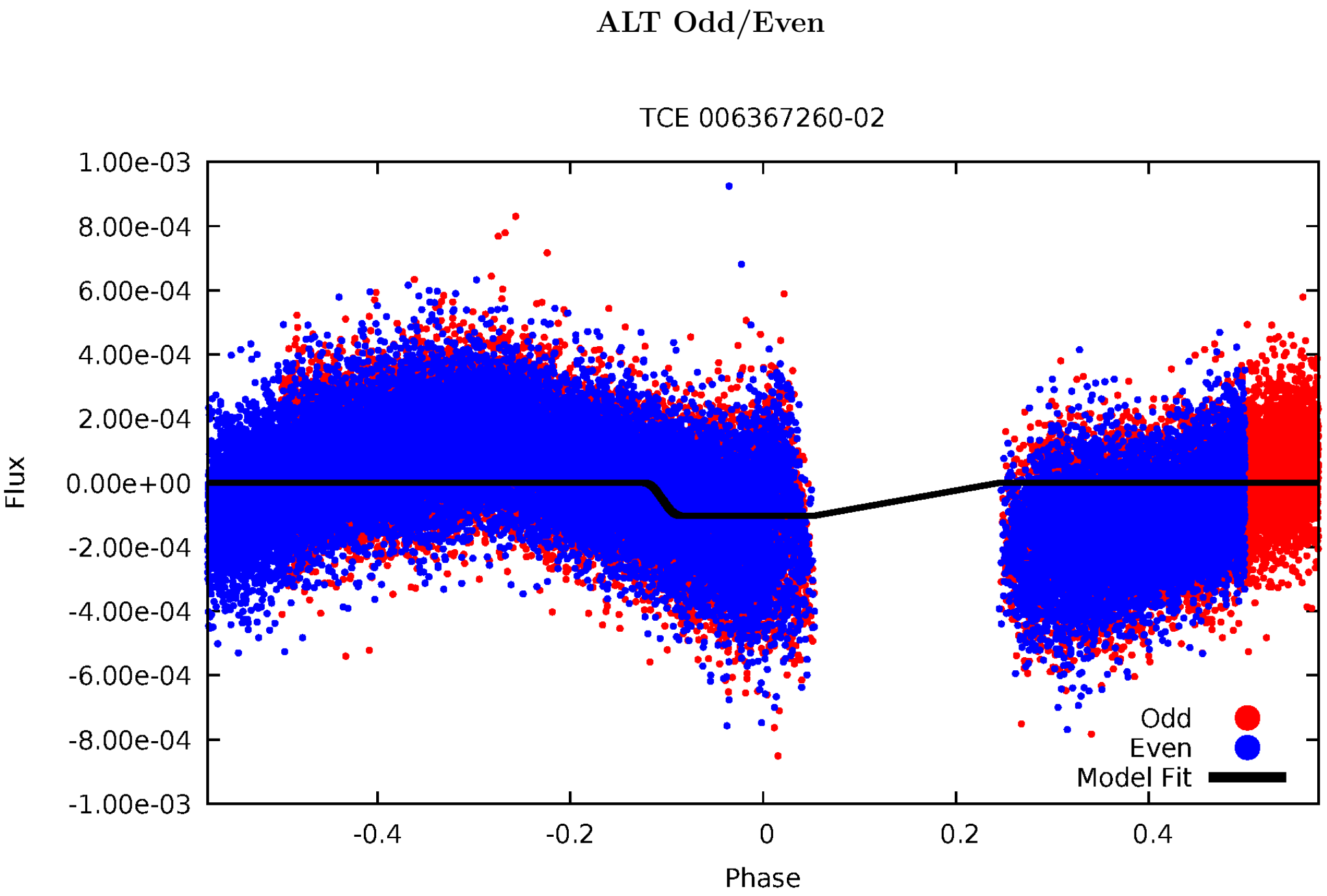
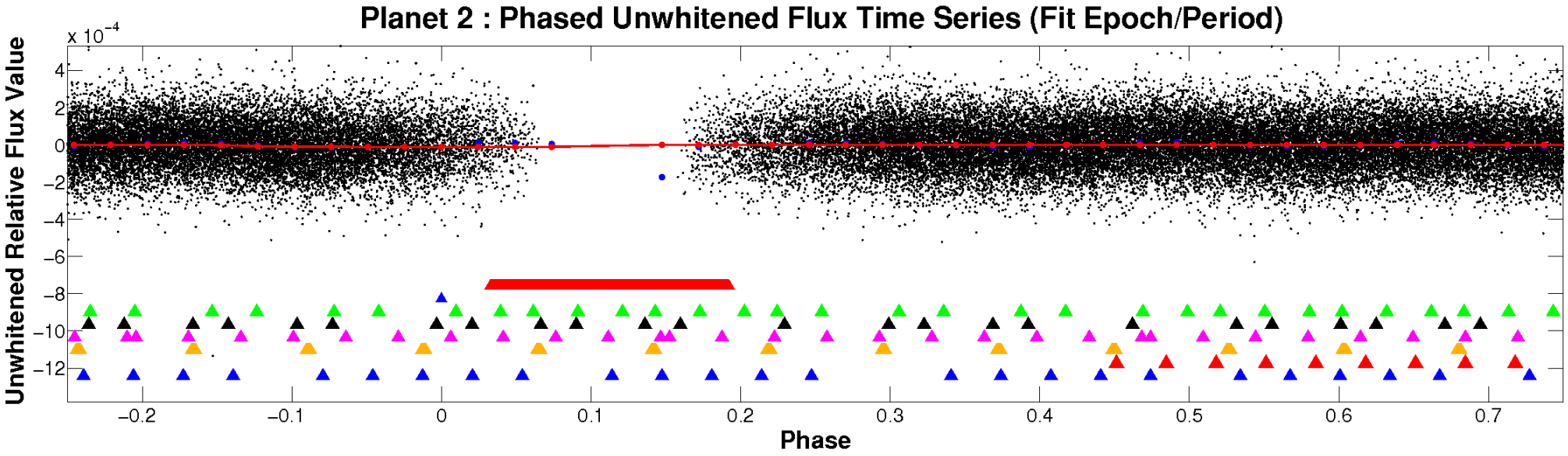
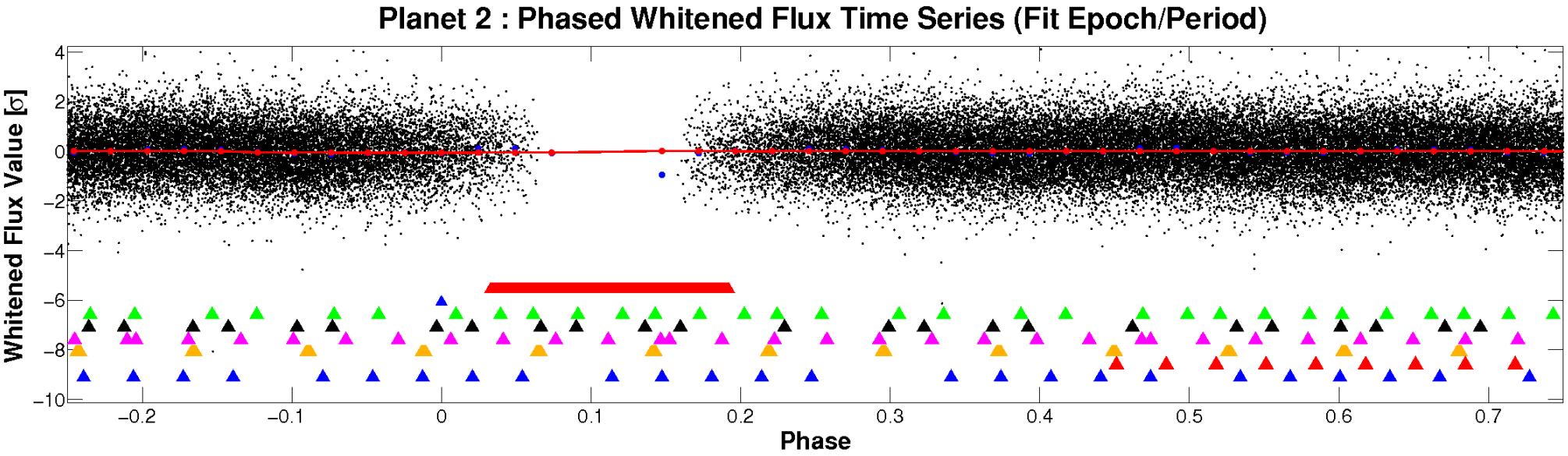
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
-2.00e-03
Flux
-0.4
-0.2
0
0.2
0.4
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-02
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
-1.00e-03
Flux
-0.4
-0.2
0
0.2
0.4
Phase
Odd
Even
Model Fit

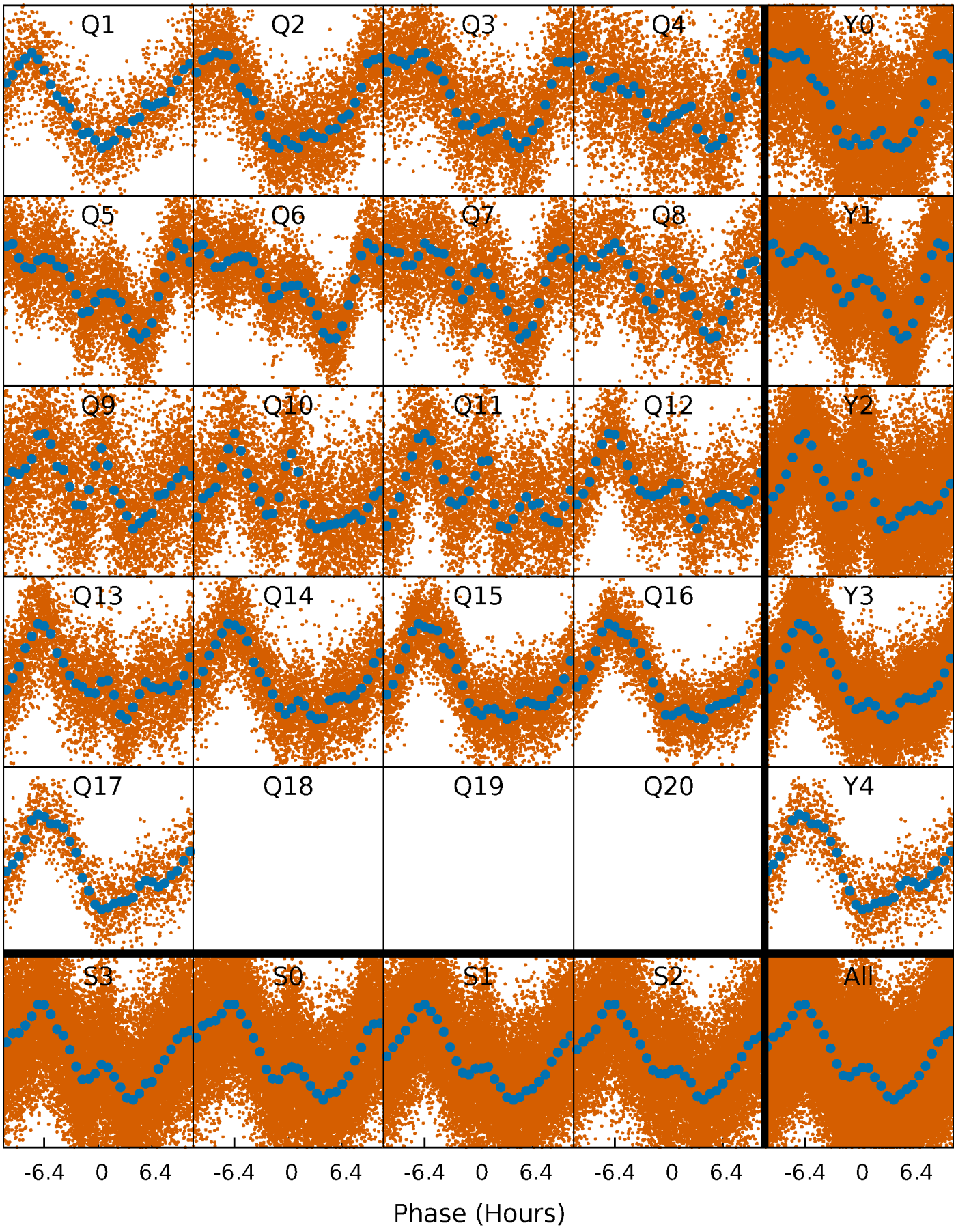
Non-Whitened Vs. Whitened Light Curve





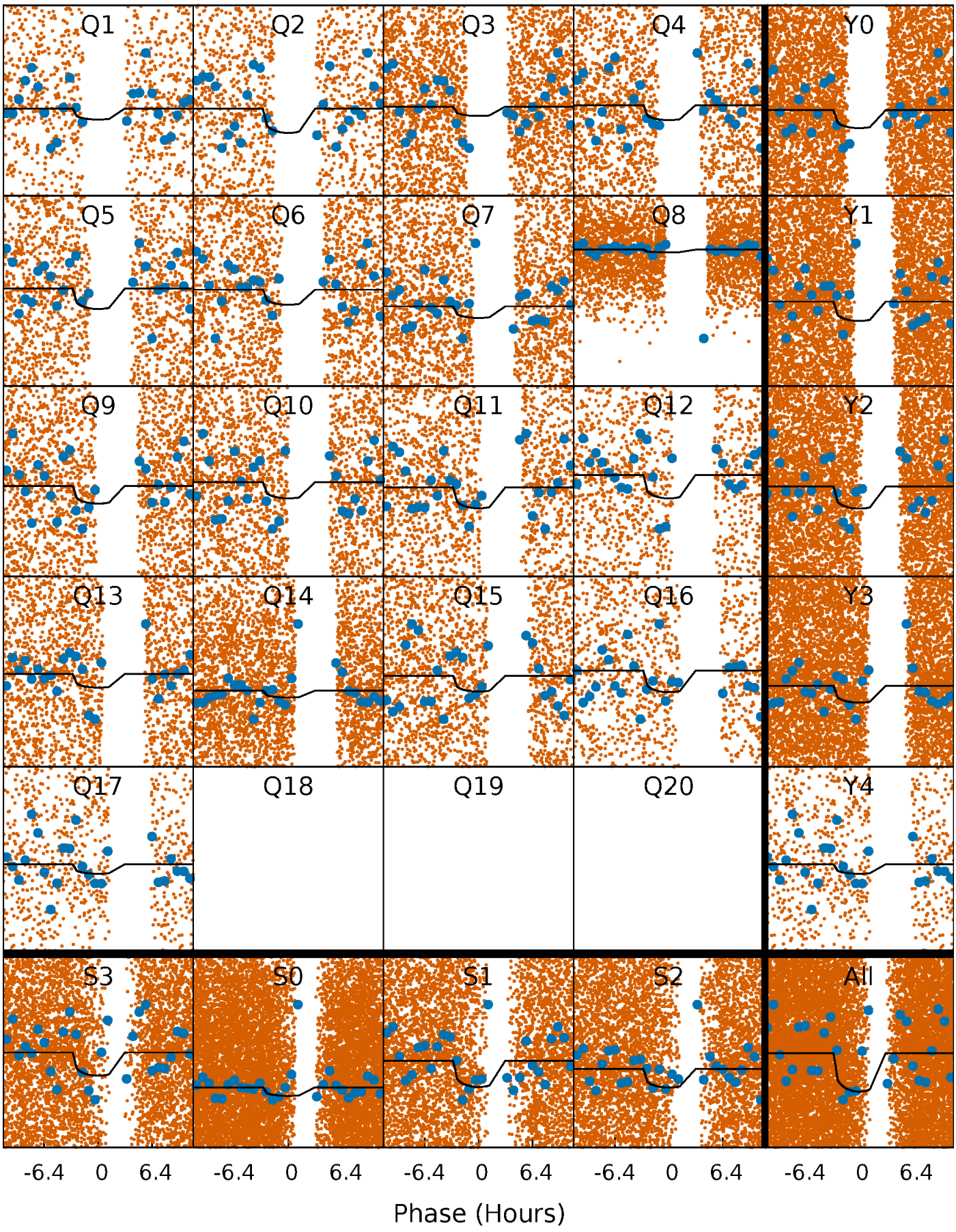
PDC Quarter-Phased Transit Curves

TCE 006367260-02 P= 0.831470 Days T_0=131.843212 (BKJD)



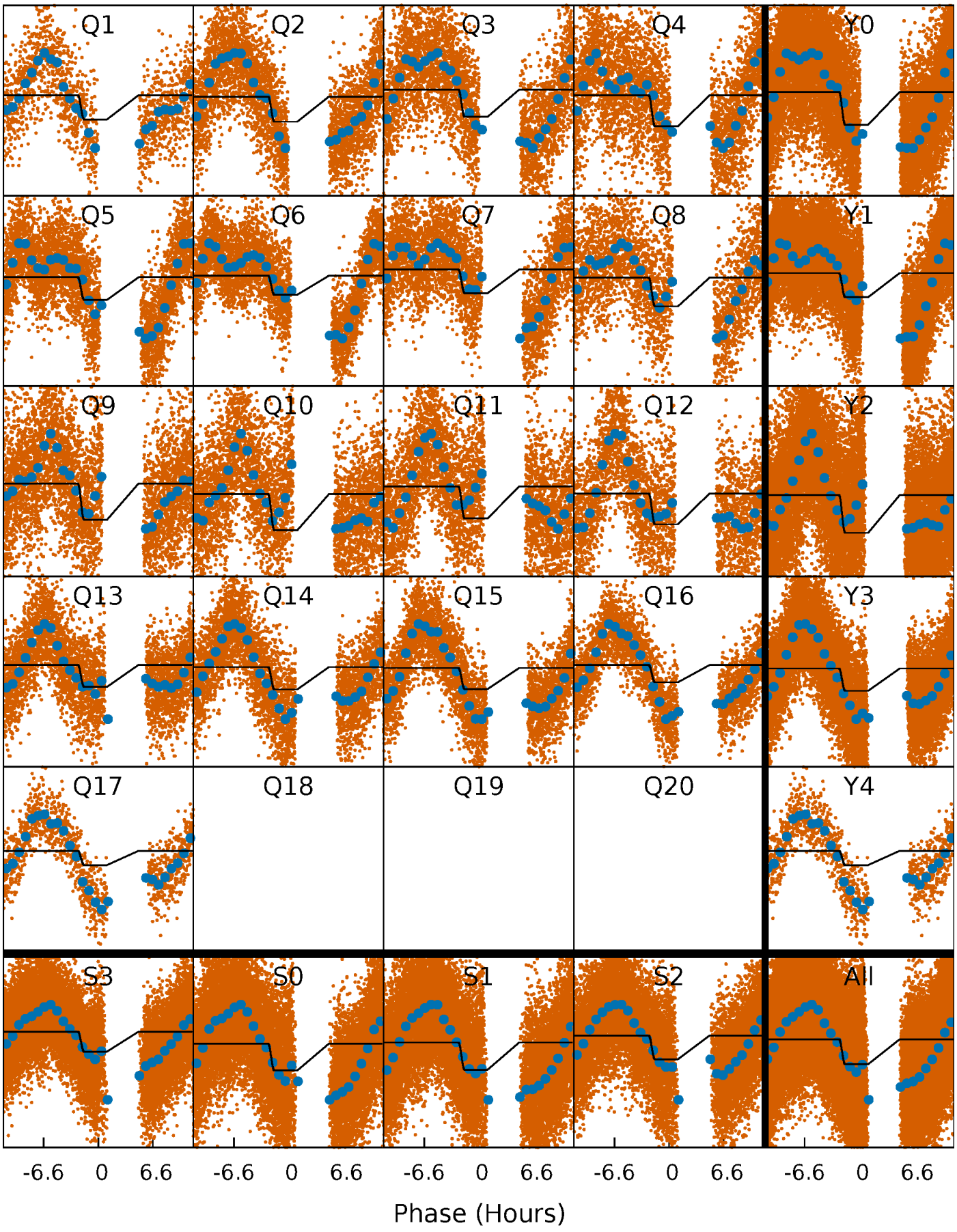
DV Quarter-Phased Transit Curves

TCE 006367260-02 P= 0.831470 Days T_0=131.843212 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

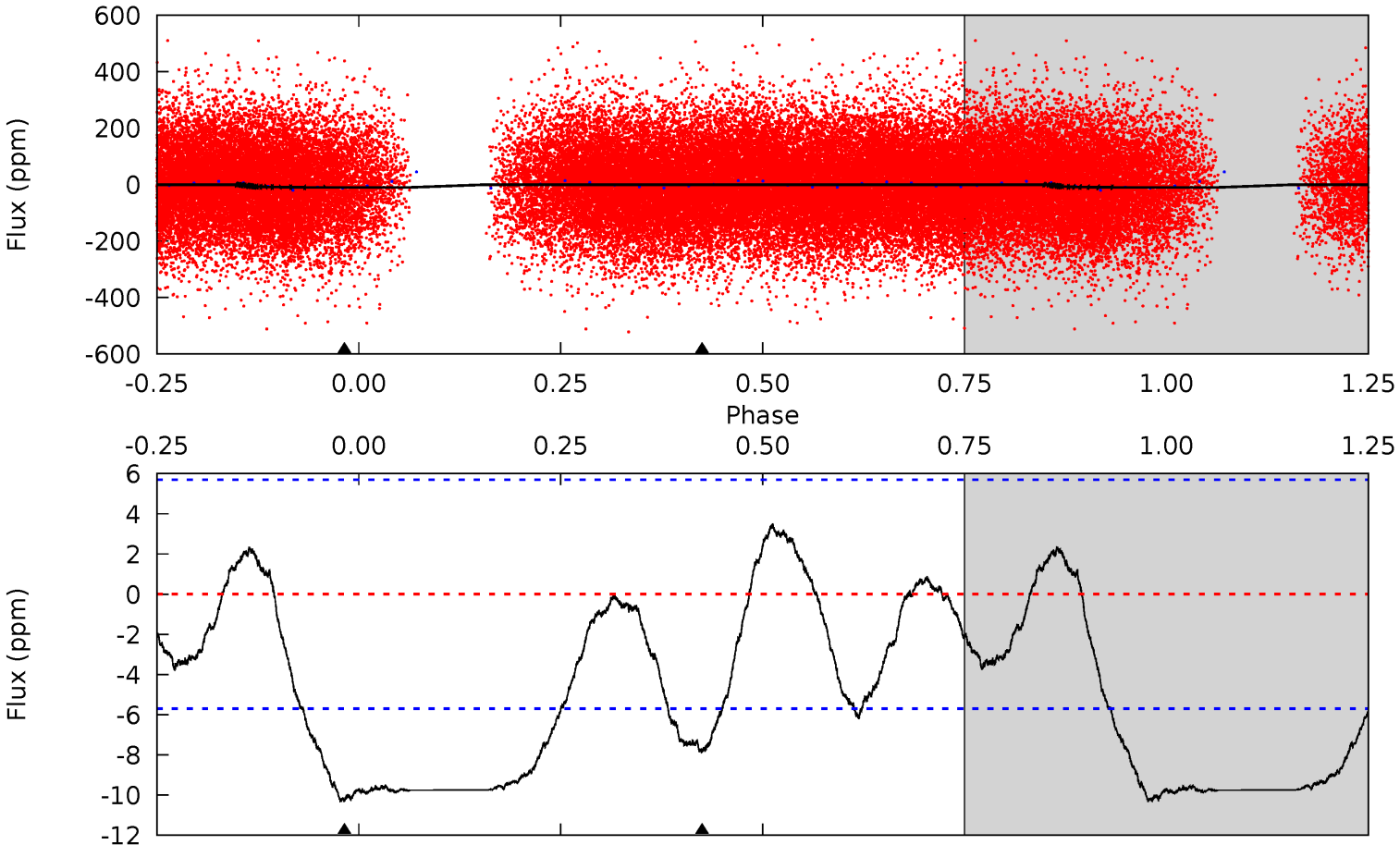
TCE 006367260-02 P= 0.831517 Days T_0=131.770815 (BKJD)

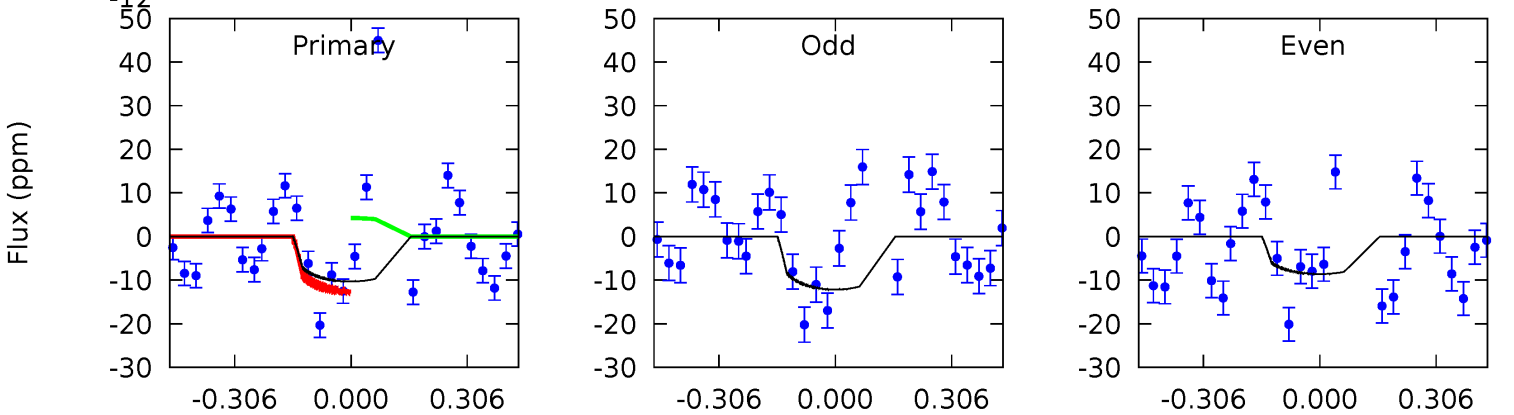


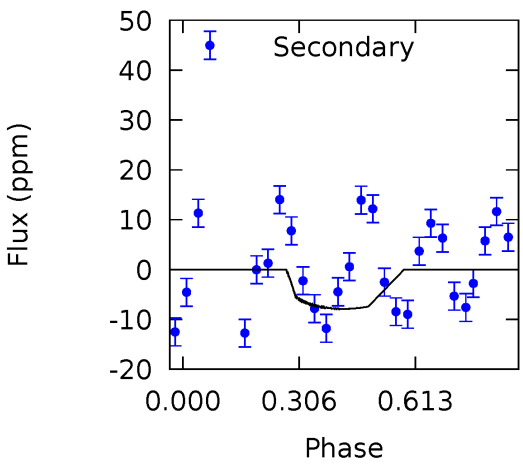
DV Model-Shift Uniqueness Test

006367260-02, P = 0.831470 Days, E = 131.011742 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.83	5.98	0	0	4.32	1.02	0.47	7.83	7.83	5.98	5.98	1.37	0.98	0.25	1.87



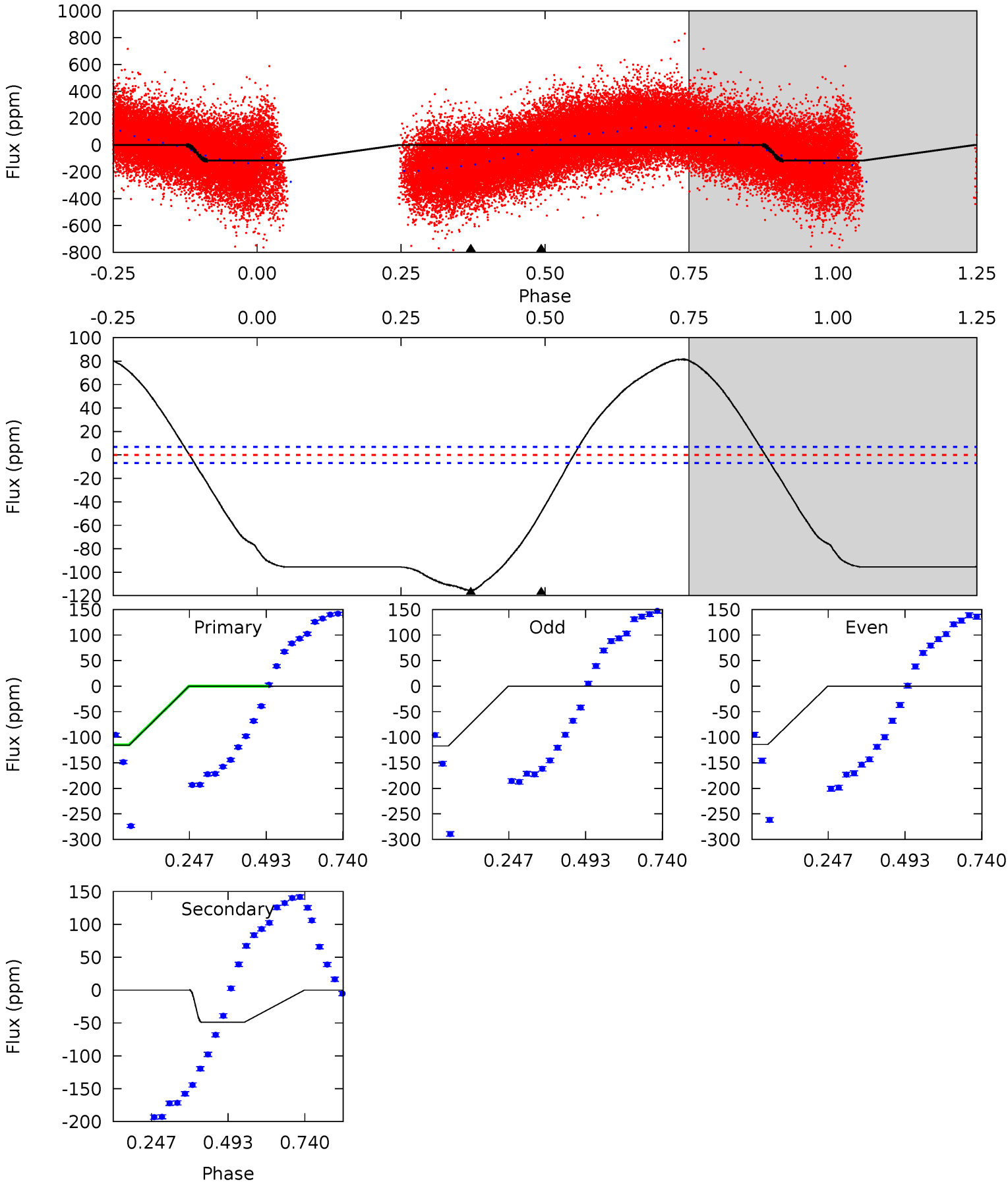




Alt Model-Shift Uniqueness Test

006367260-02, P = 0.831517 Days, E = 130.939298 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
73.6	31.1	0	0	4.37	1.16	36.3	73.6	73.6	31.1	31.1	0.95	1.04	0.41	0.20



Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-02 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-8±1	$1.15^{+0.84}_{-0.66}$	5890^{+475}_{-885}	6308^{+4641}_{-1775}	$1.510^{+6.212}_{-0.999}$
Alt.	-49±2	$3.62^{+1.24}_{-1.19}$	5875^{+485}_{-823}	5635^{+1041}_{-858}	$0.949^{+1.066}_{-0.415}$

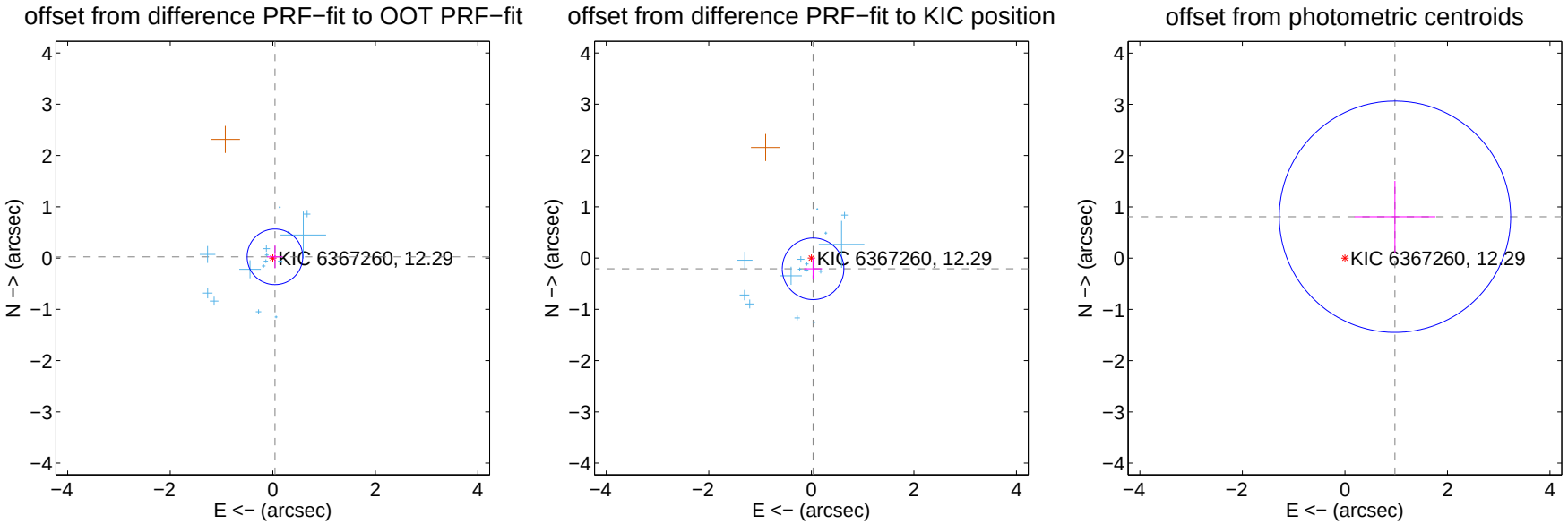
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

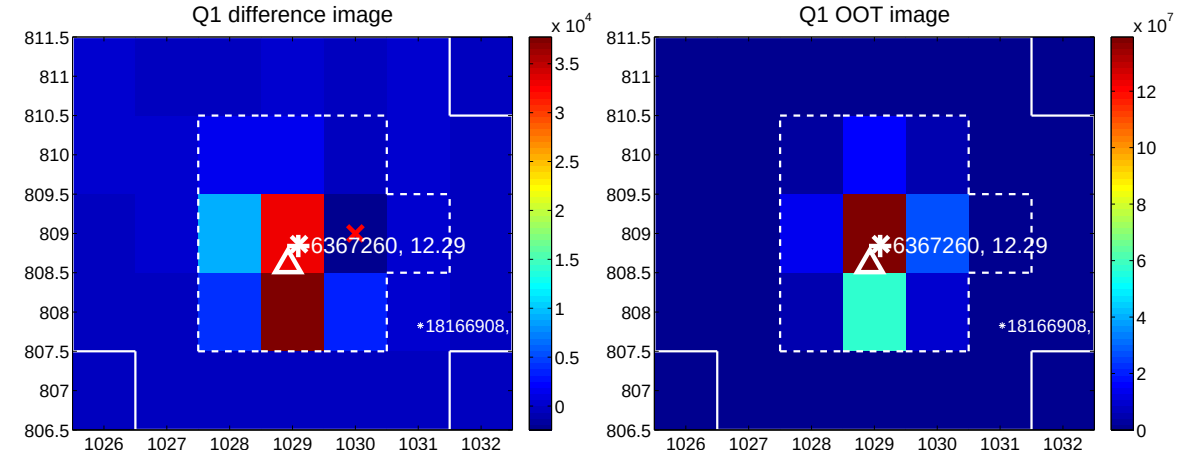
Supplemental centroid analysis for 006367260-02. Kepler magnitude: 12.29. Transit SNR 5.01
There are 15 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

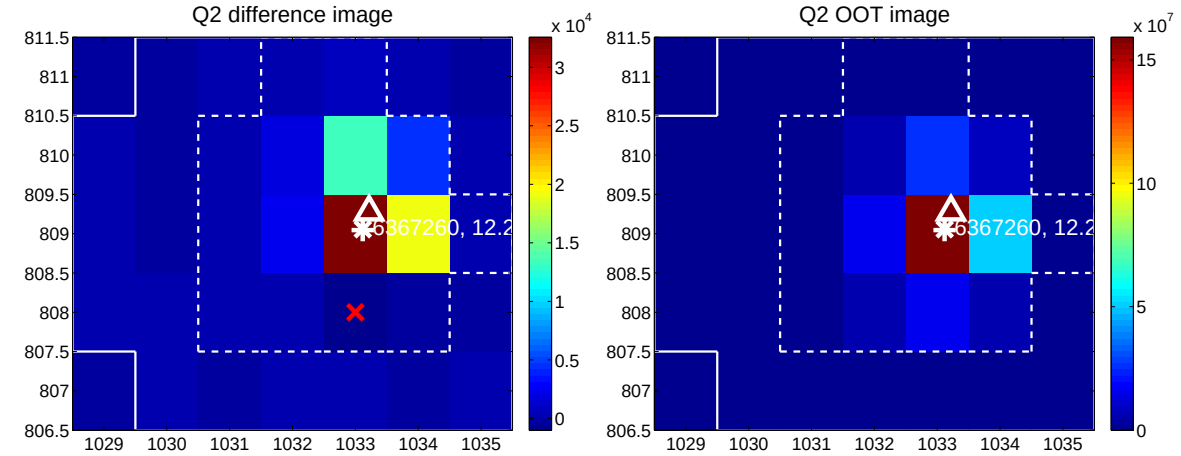
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.048 ± 0.181	0.27	-0.042 ± 0.150	0.024 ± 0.220
PRF-fit source offset from KIC position	0.213 ± 0.200	1.06	-0.034 ± 0.175	-0.210 ± 0.206
photometric centroid source offset	1.27 ± 0.75	1.68	-0.98 ± 0.79	0.81 ± 0.70

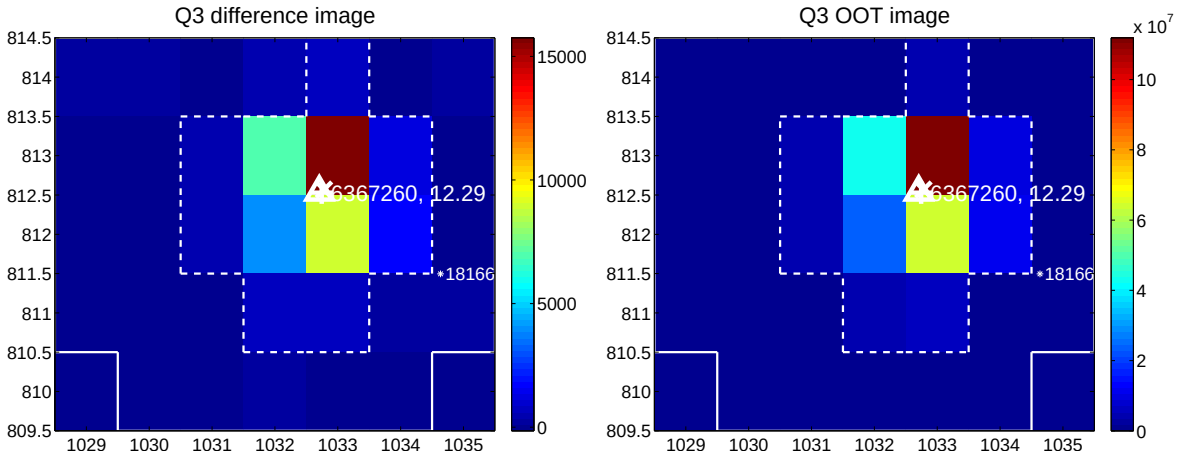


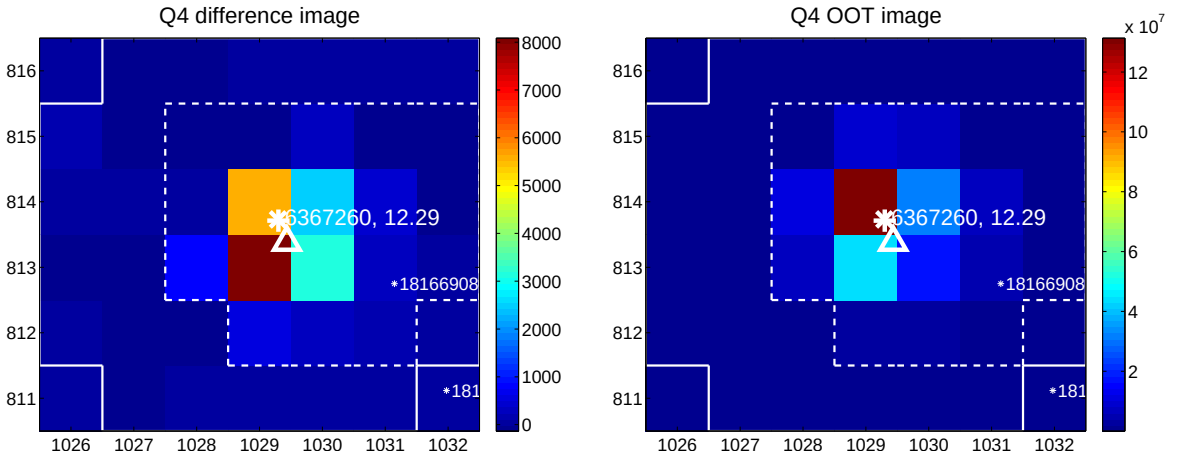
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

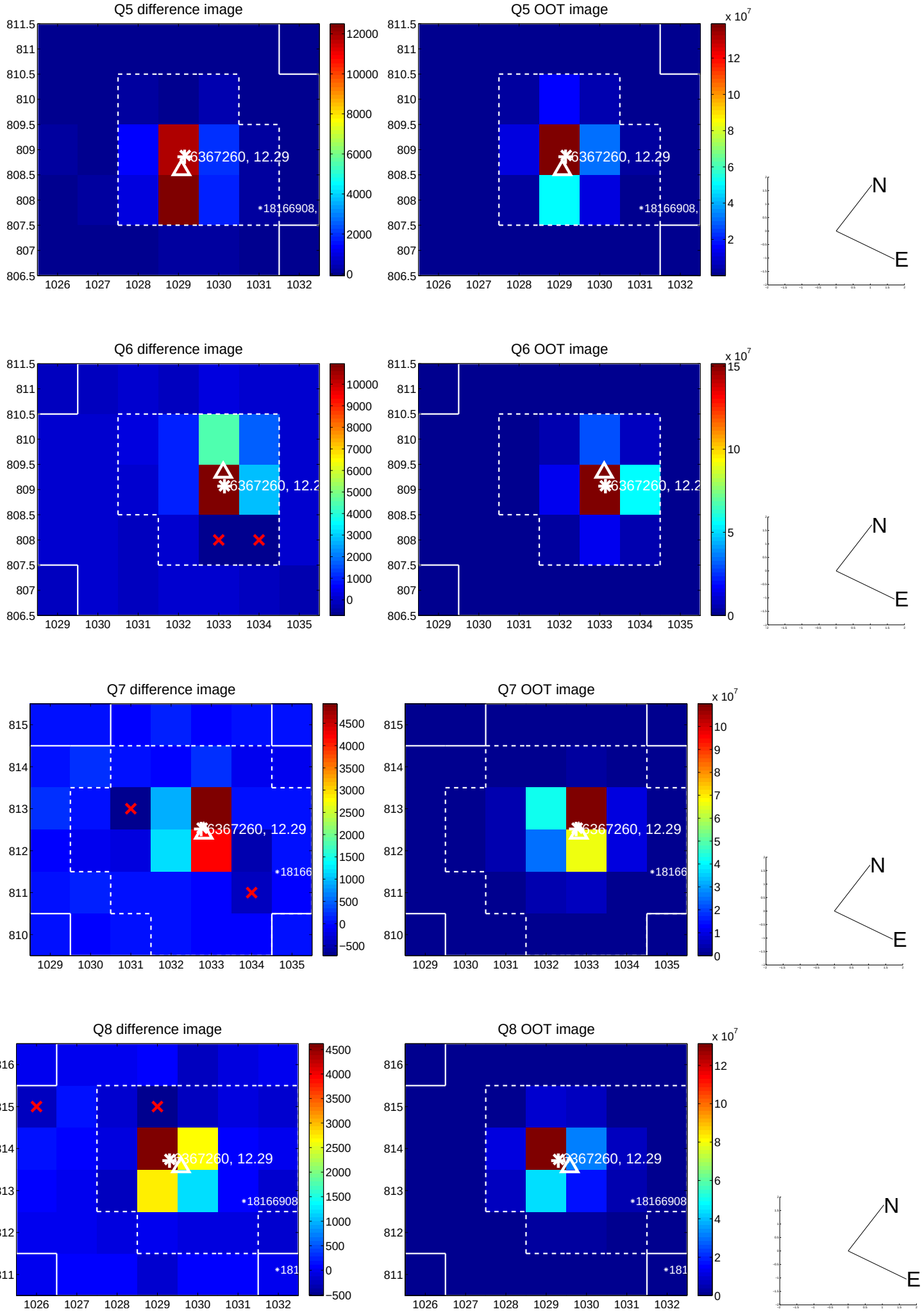




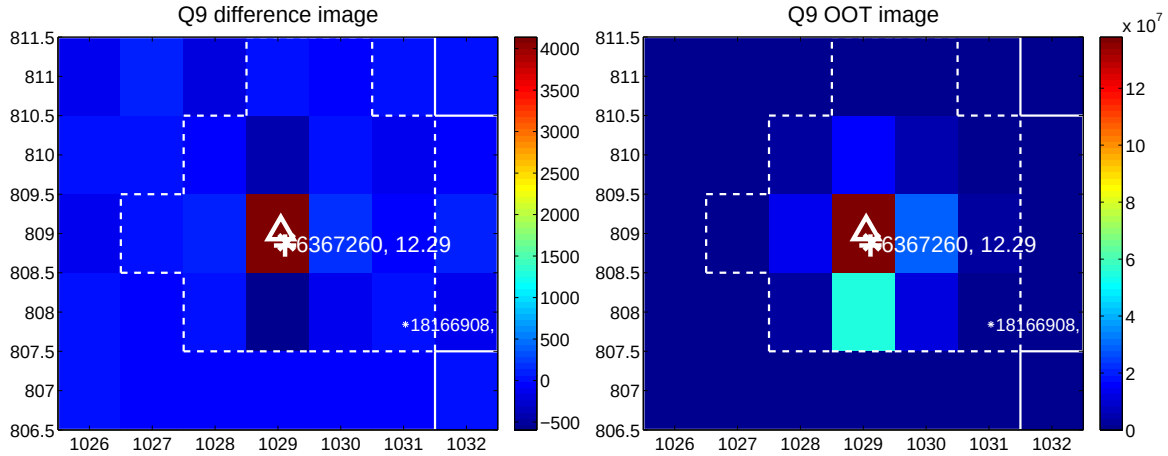


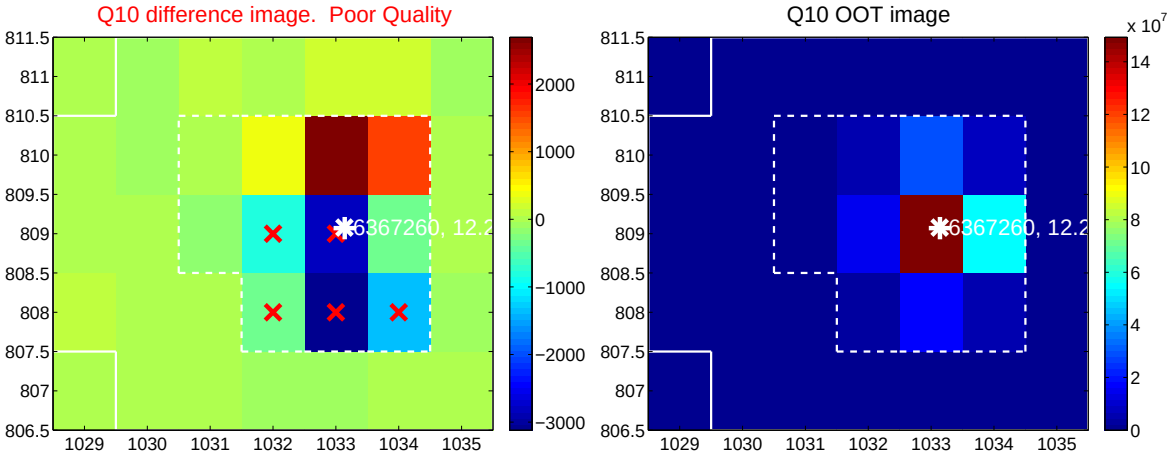


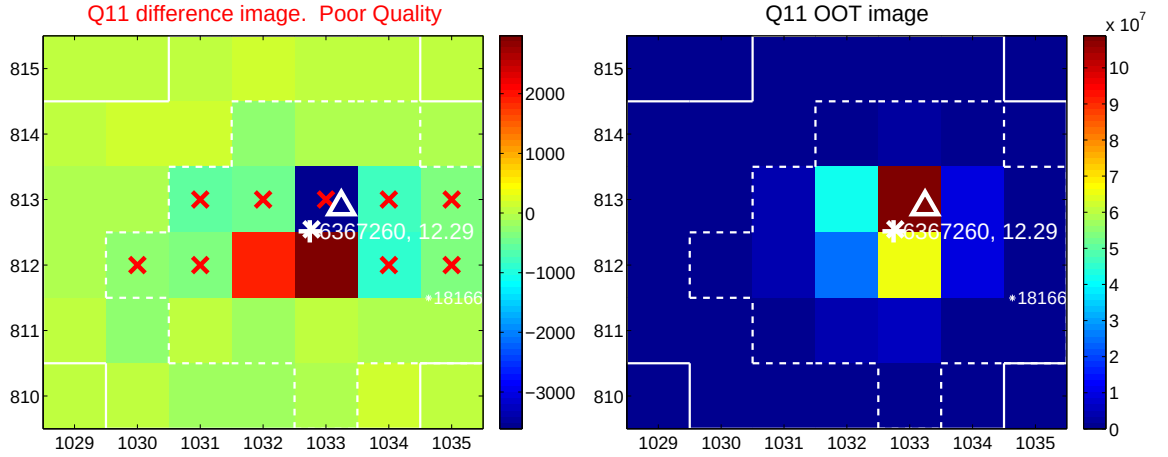
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

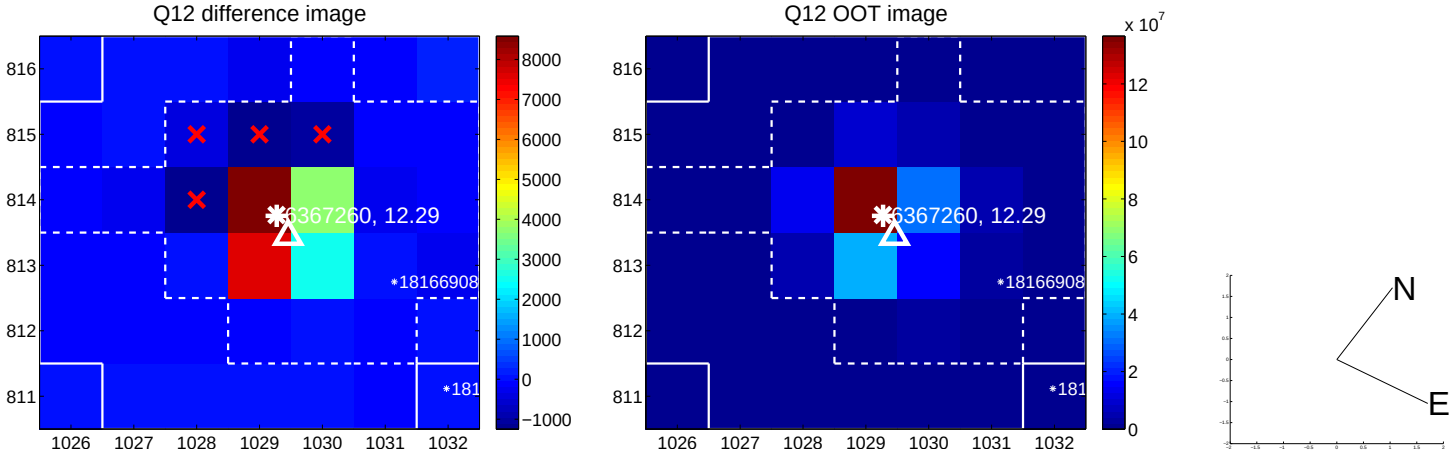


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

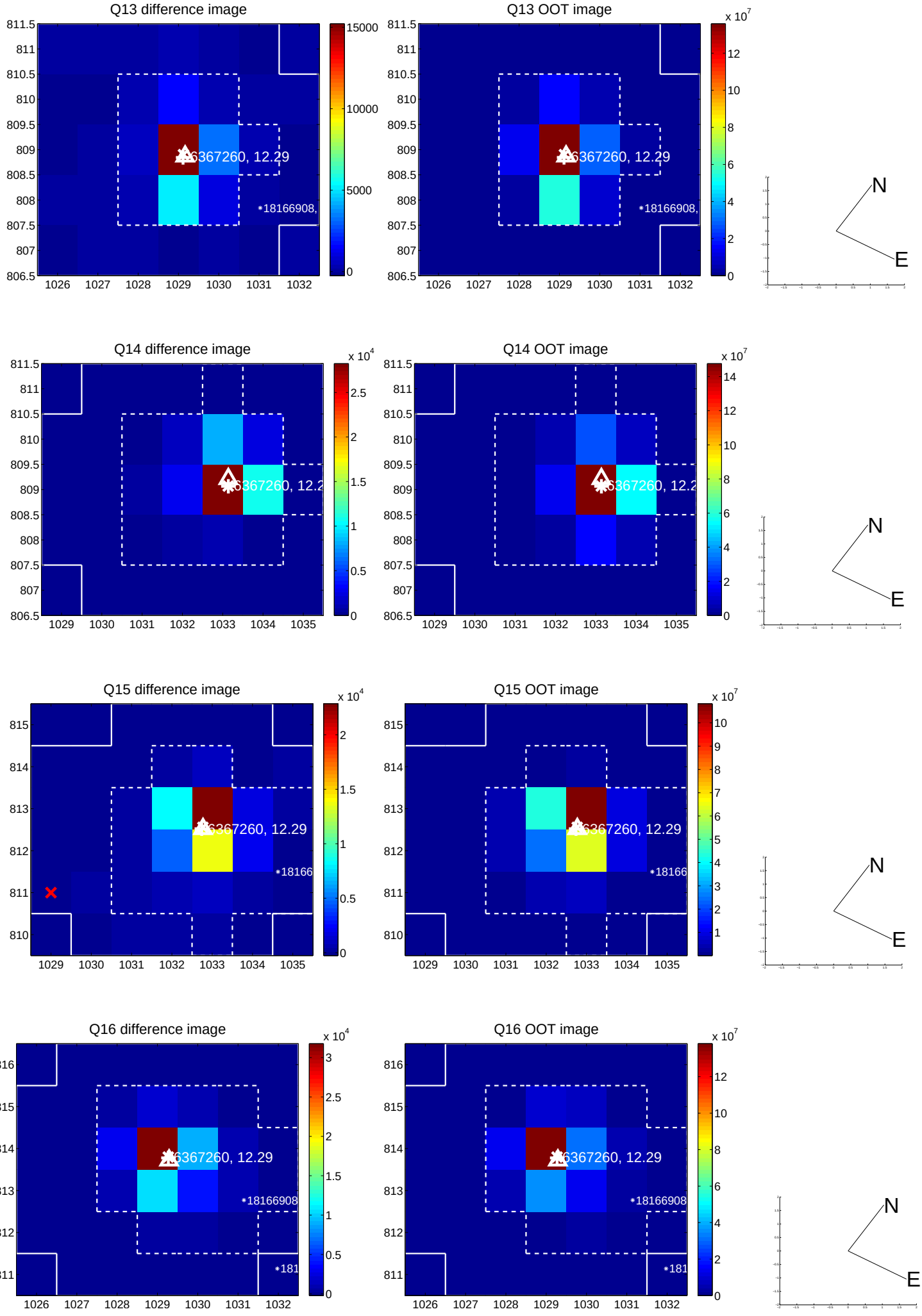




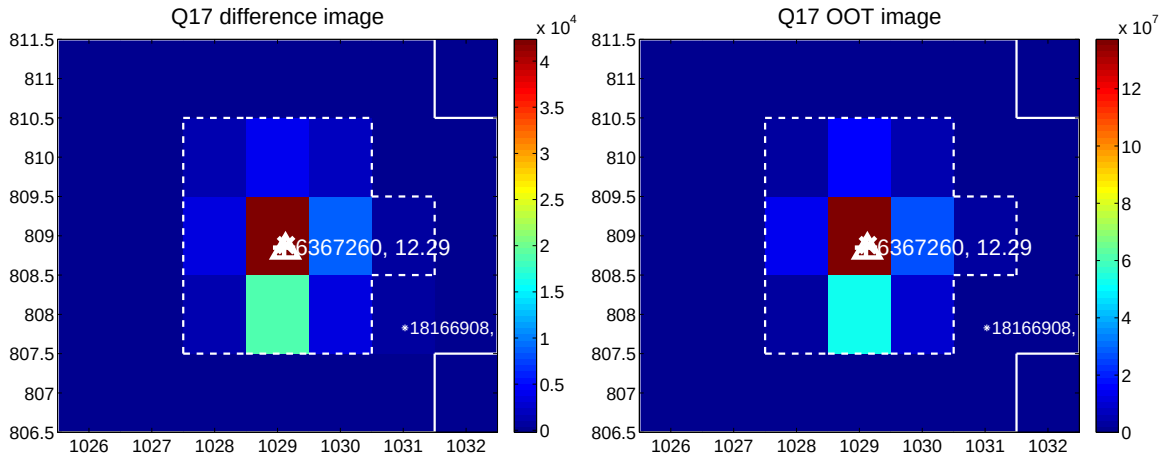


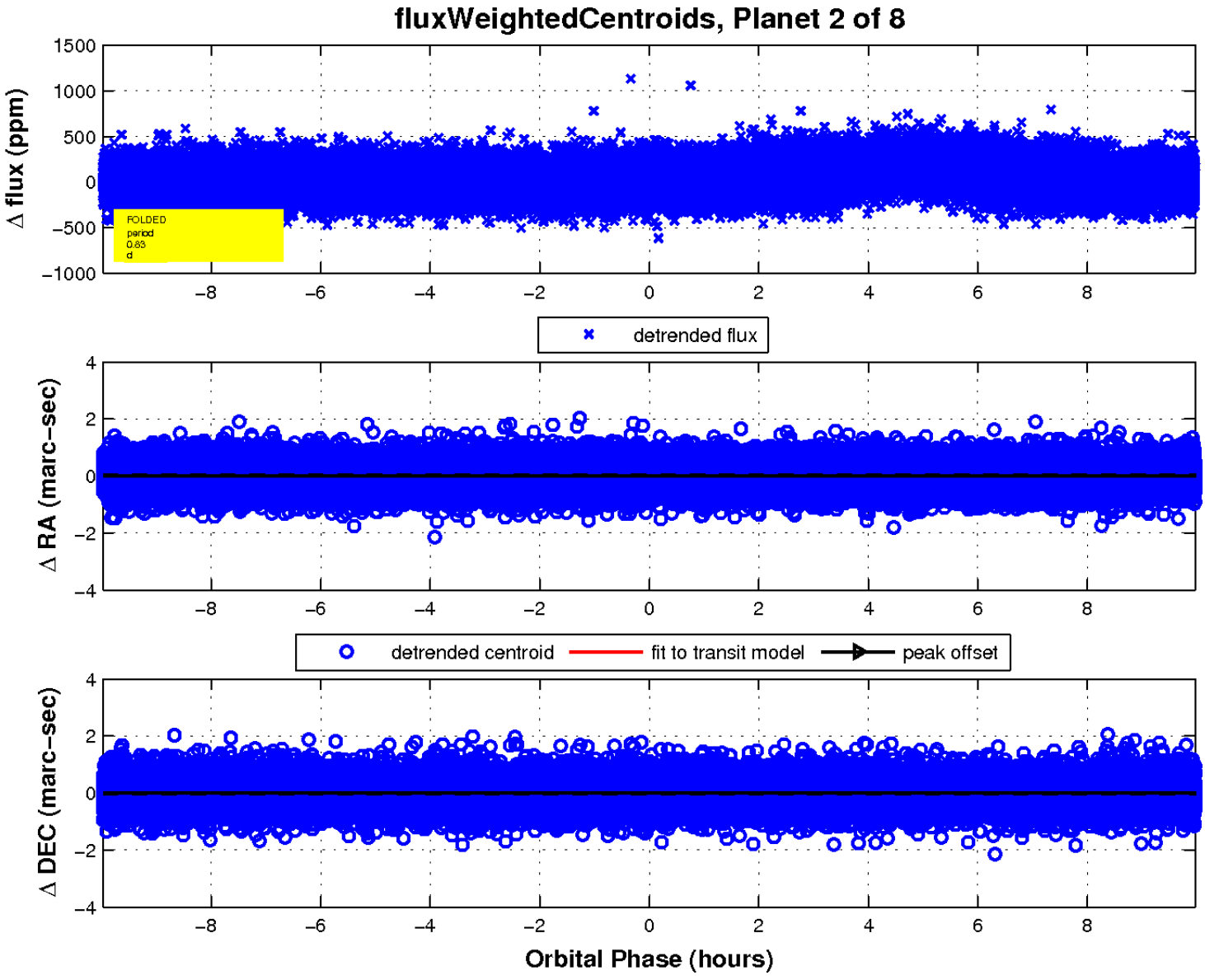


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

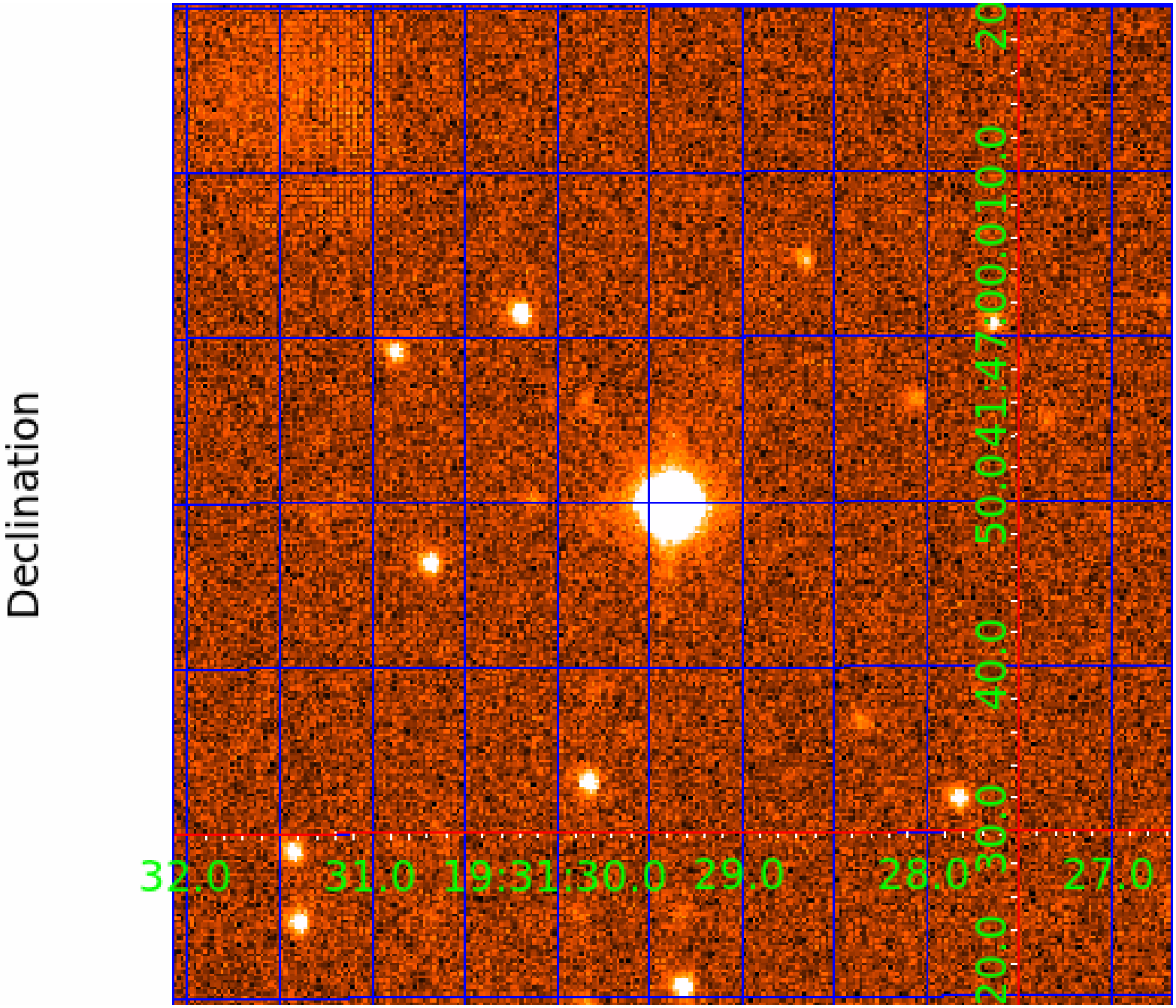


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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10.0
20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

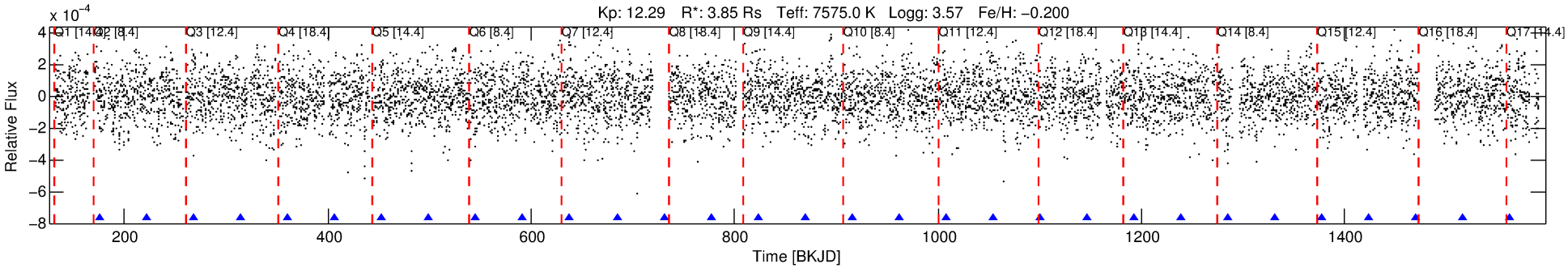
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

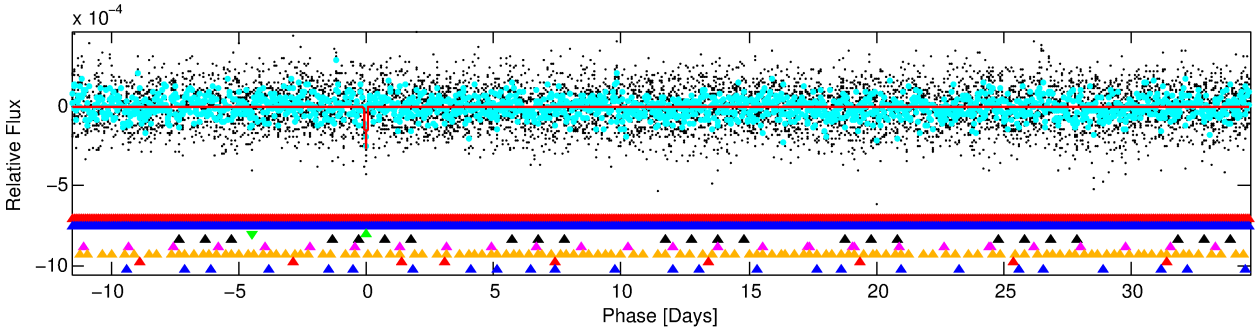
Ephemeris Match Information For 006367260-03

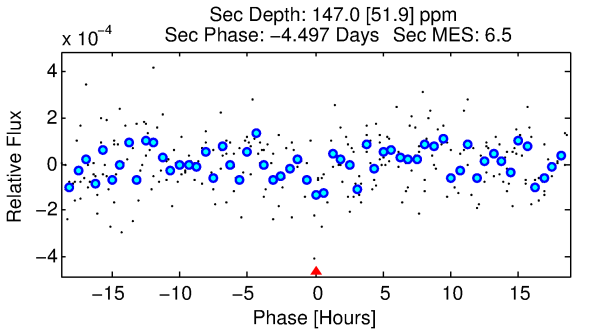
No Significant Match Found

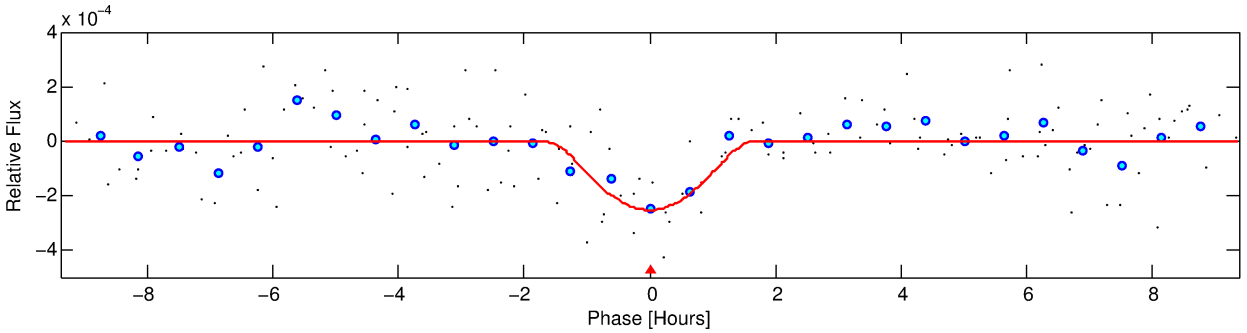
DV One-Page Summary

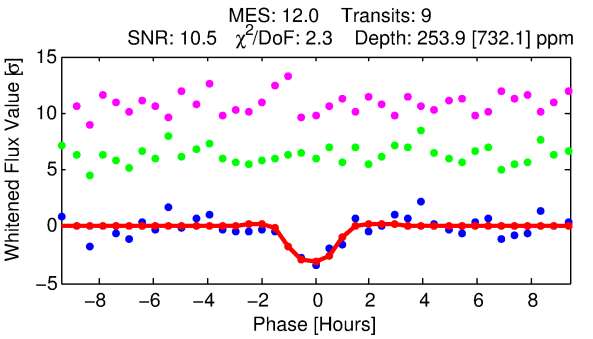
KIC: 6367260 Candidate: 3 of 8 Period: 46.180 d

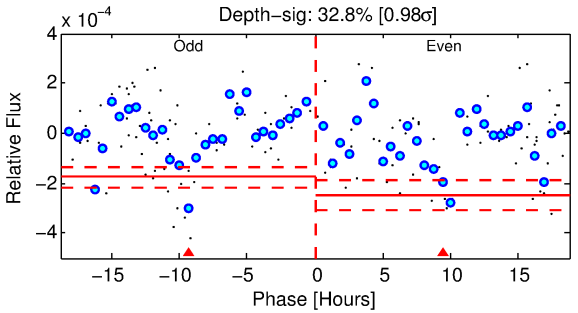


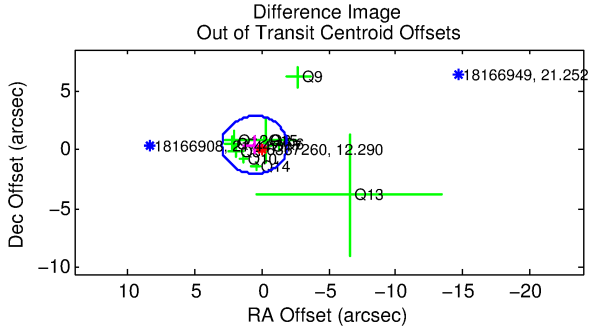












DV Fit Results:

Period = 46.18044 [0.00062] d
Epoch = 176.3440 [0.0111] BKJD
Rp/R* = 0.0288 [0.1999]
a/R* = 27.27 [50.99]
b = 1.00 [0.24]

Seff = 432.56 [411.91]
Teq = 1163 [277] K
Rp = 12.09 [84.26] Re
a = 0.3179 [0.1823] AU

Ag = 55.92 [778.97] [0.07σ]
Teffp = 4917 [17086] K [0.22σ]

DV Diagnostic Results:

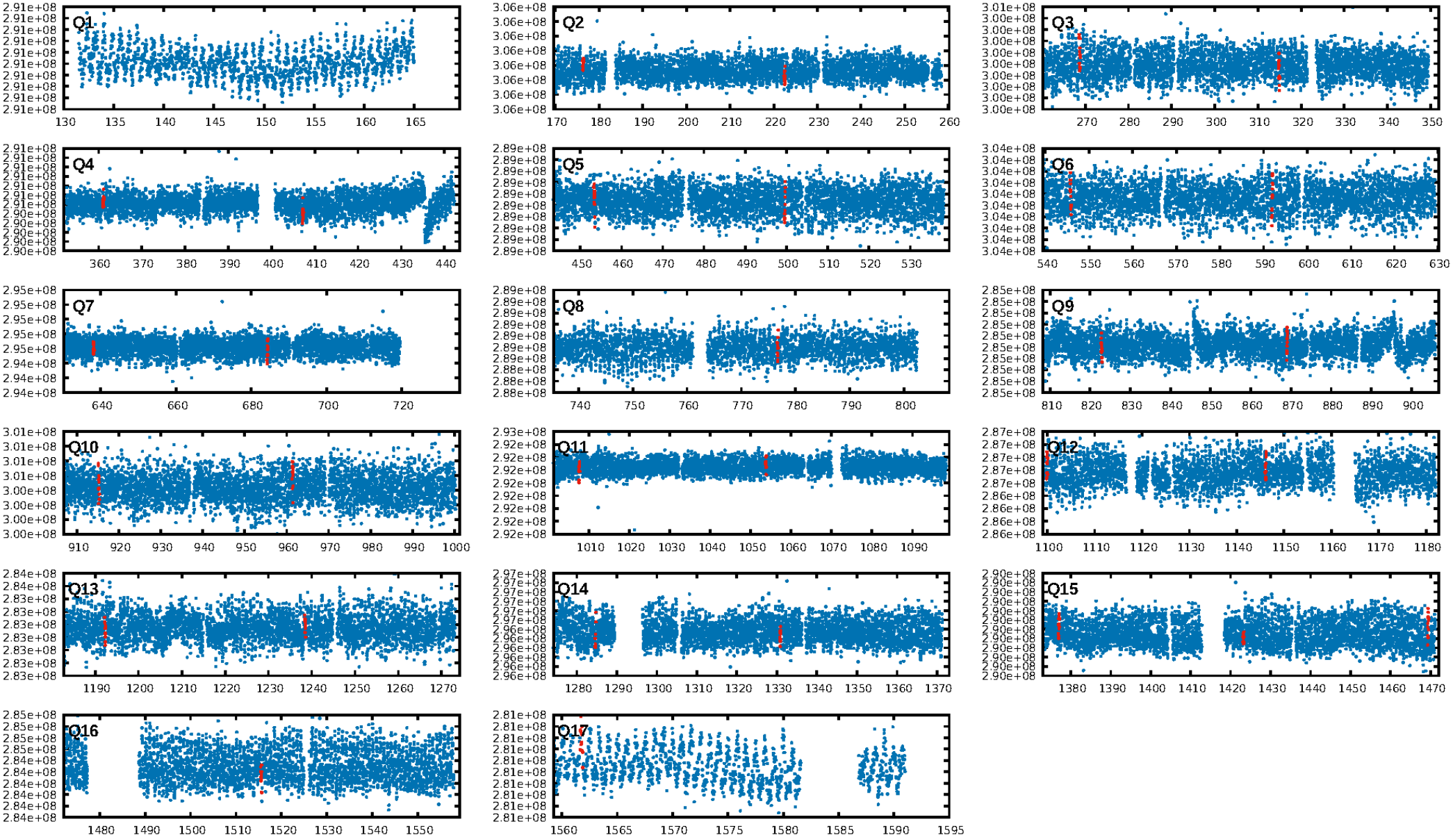
ShortPeriod−sig: 100.0% [239.16σ]
LongPeriod−sig: 100.0% [11.94σ]
ModelChiSquare2−sig: 0.0%
ModelChiSquareGof−sig: 99.6%
Bootstrap−pfa: 1.02e−10
RollingBand−fgt: 1.00 [9/9]
GhostDiagnostic−chr: −7.968

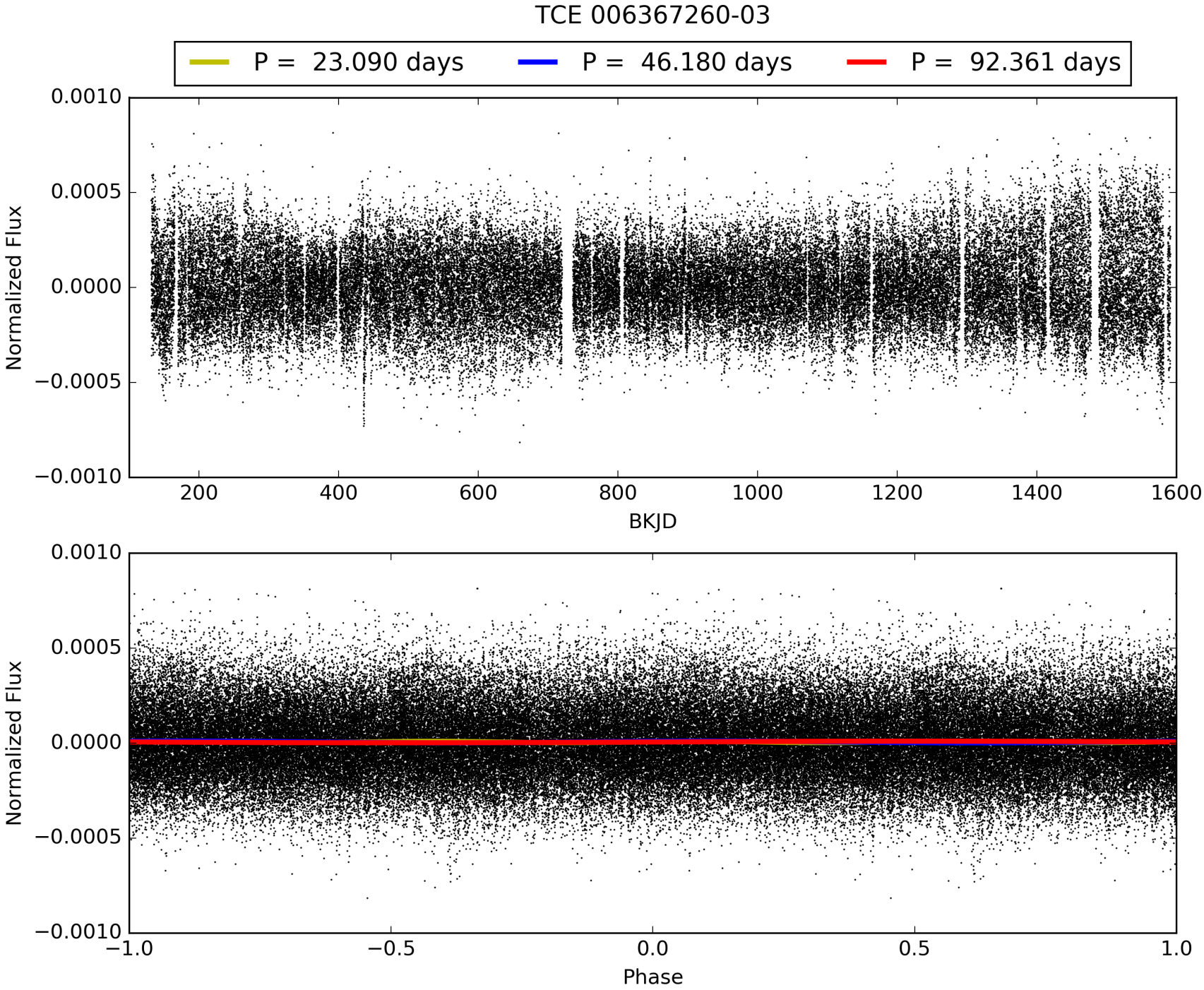
Centroid−sig: 4.5%
Centroid−so: 0.649 arcsec [1.55σ]
OotOffset−rm: 0.670 arcsec [0.82σ]
KicOffset−rm: 0.537 arcsec [0.80σ]
OotOffset−st: 3/3/2/3 [11]
KicOffset−st: 3/3/2/3 [11]
DiffImageQuality−fgm: 0.36 [4/11]
DiffImageOverlap−fno: 0.00 [0/16]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:05:56 Z

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

TCE 006367260-03, PDC Light Curves

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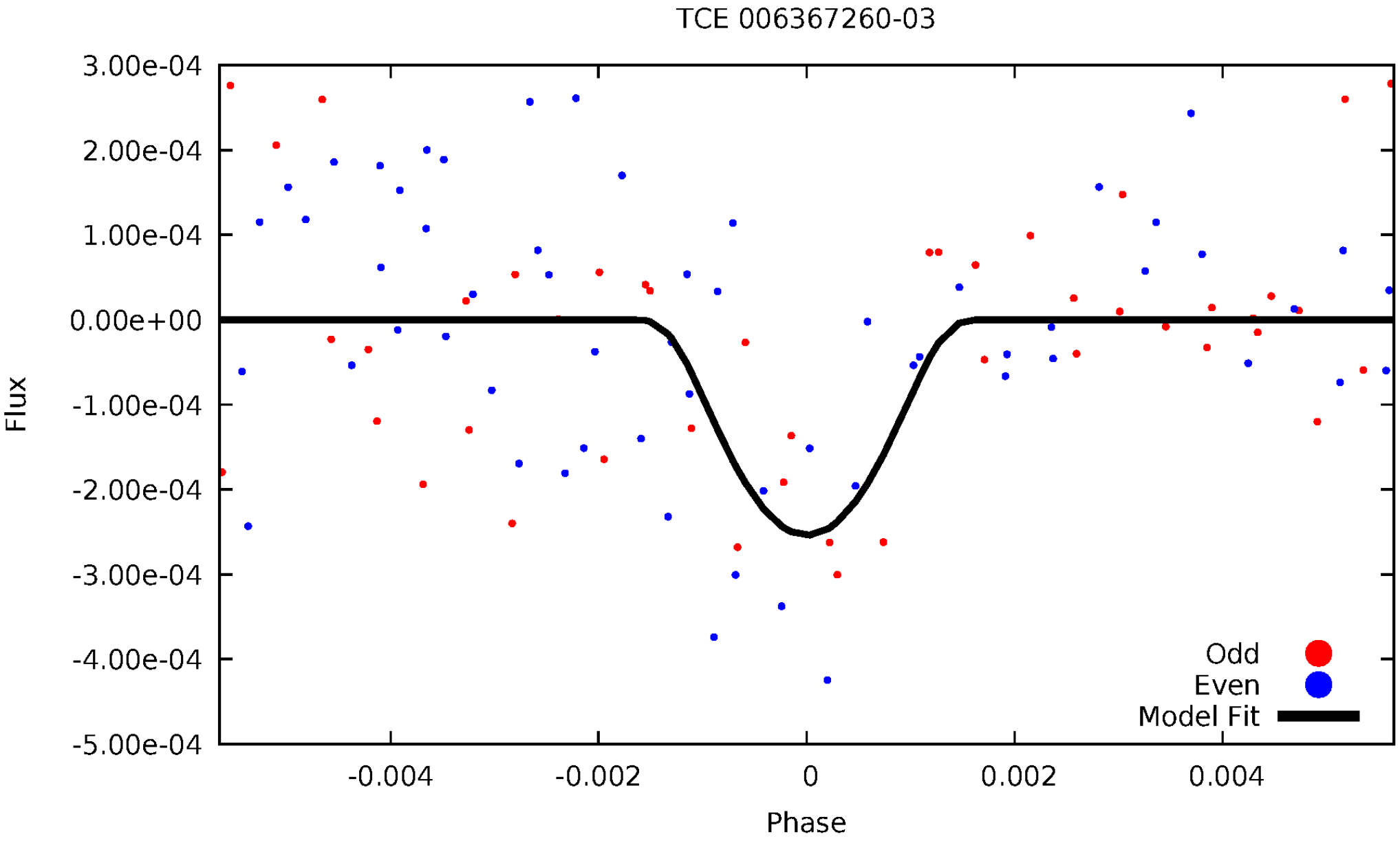
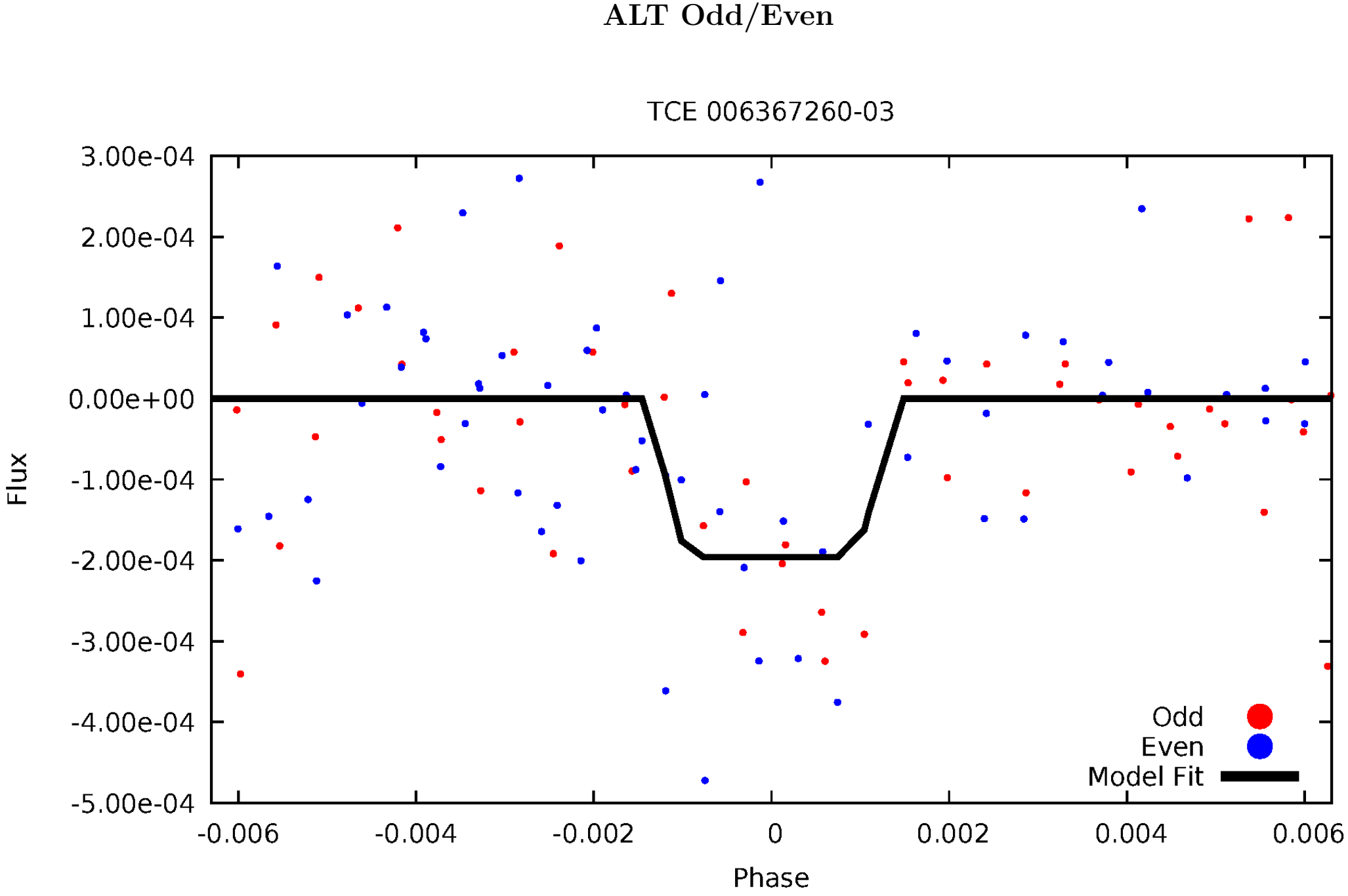
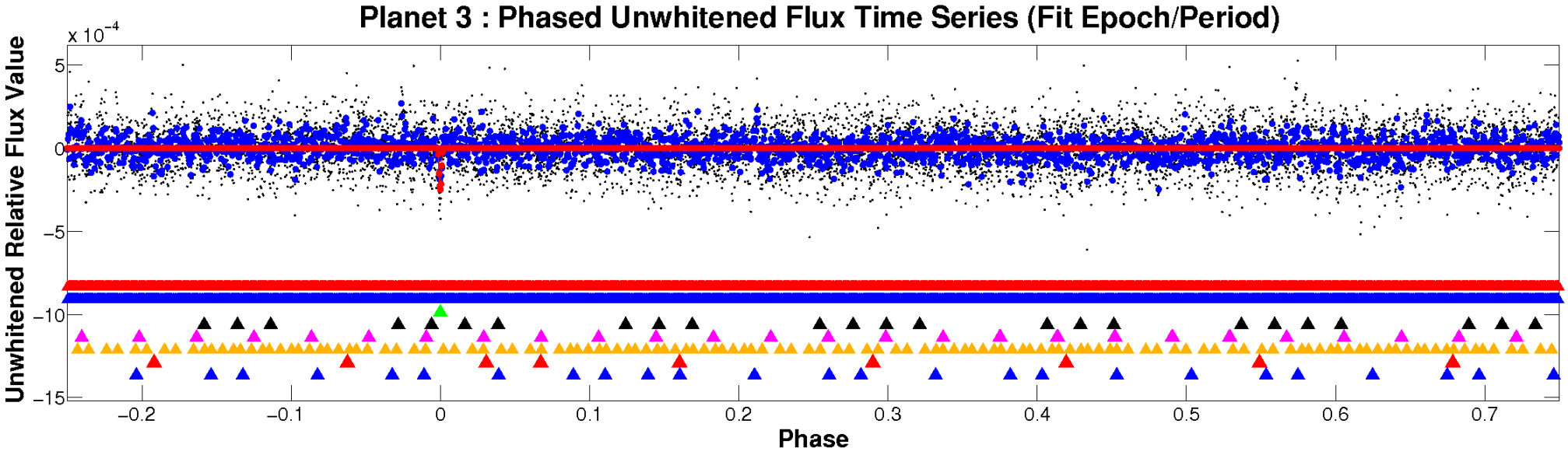
P = 23.090 days
P = 46.180 days
P = 92.361 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

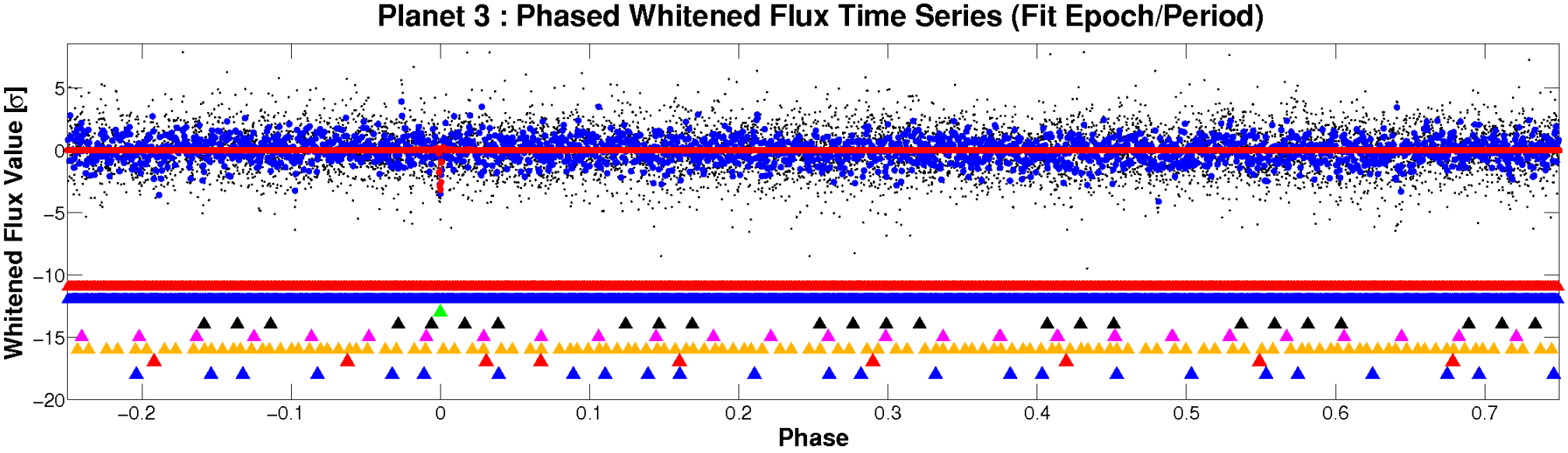
DV Odd/Even


TCE 006367260-03
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
-5.00e-04
Flux
-0.004
-0.002
0
0.002
0.004
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-03
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
-5.00e-04
Flux
-0.006
-0.004
-0.002
0
0.002
0.004
0.006
Phase
Odd
Even
Model Fit

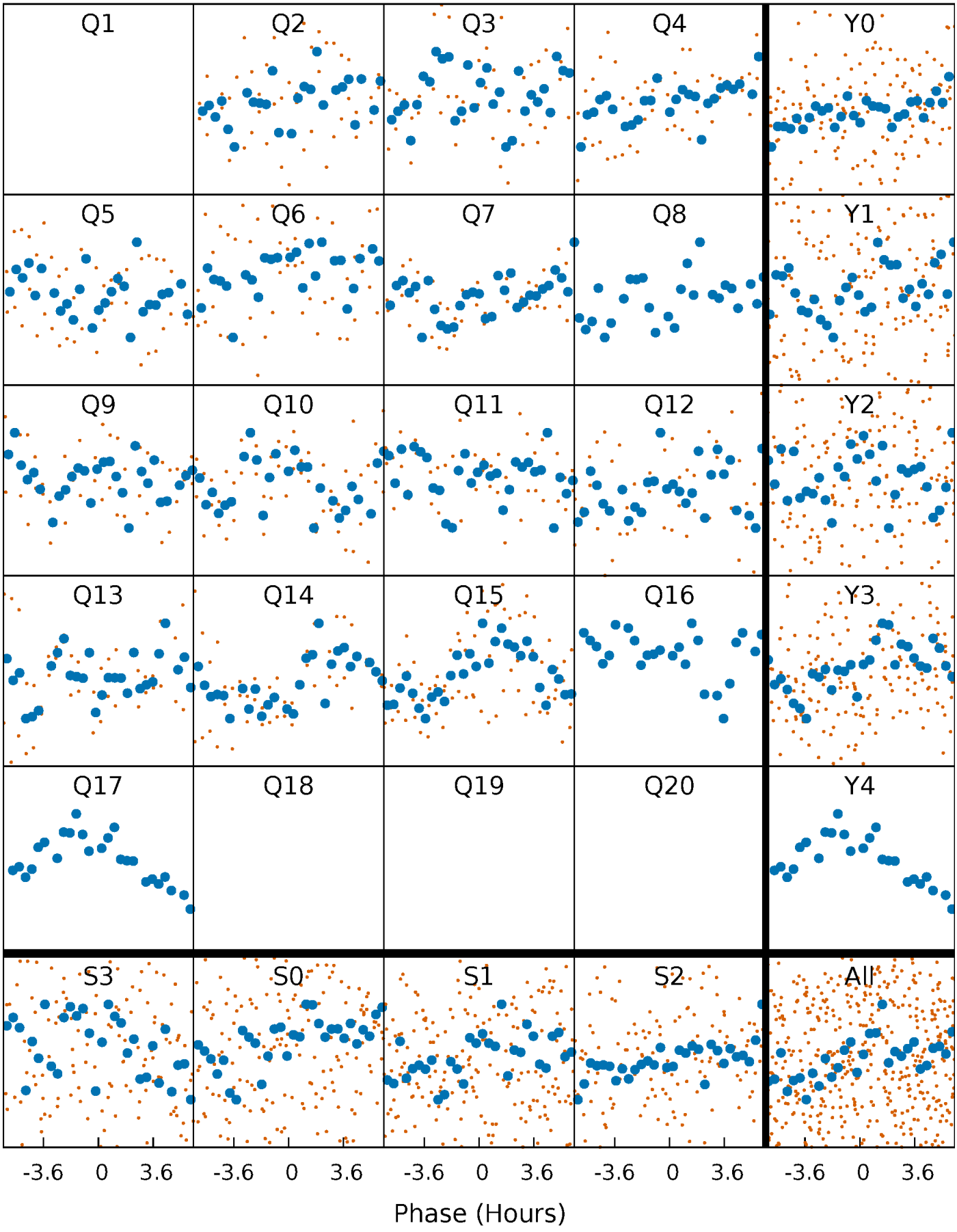
Non-Whitened Vs. Whitened Light Curve





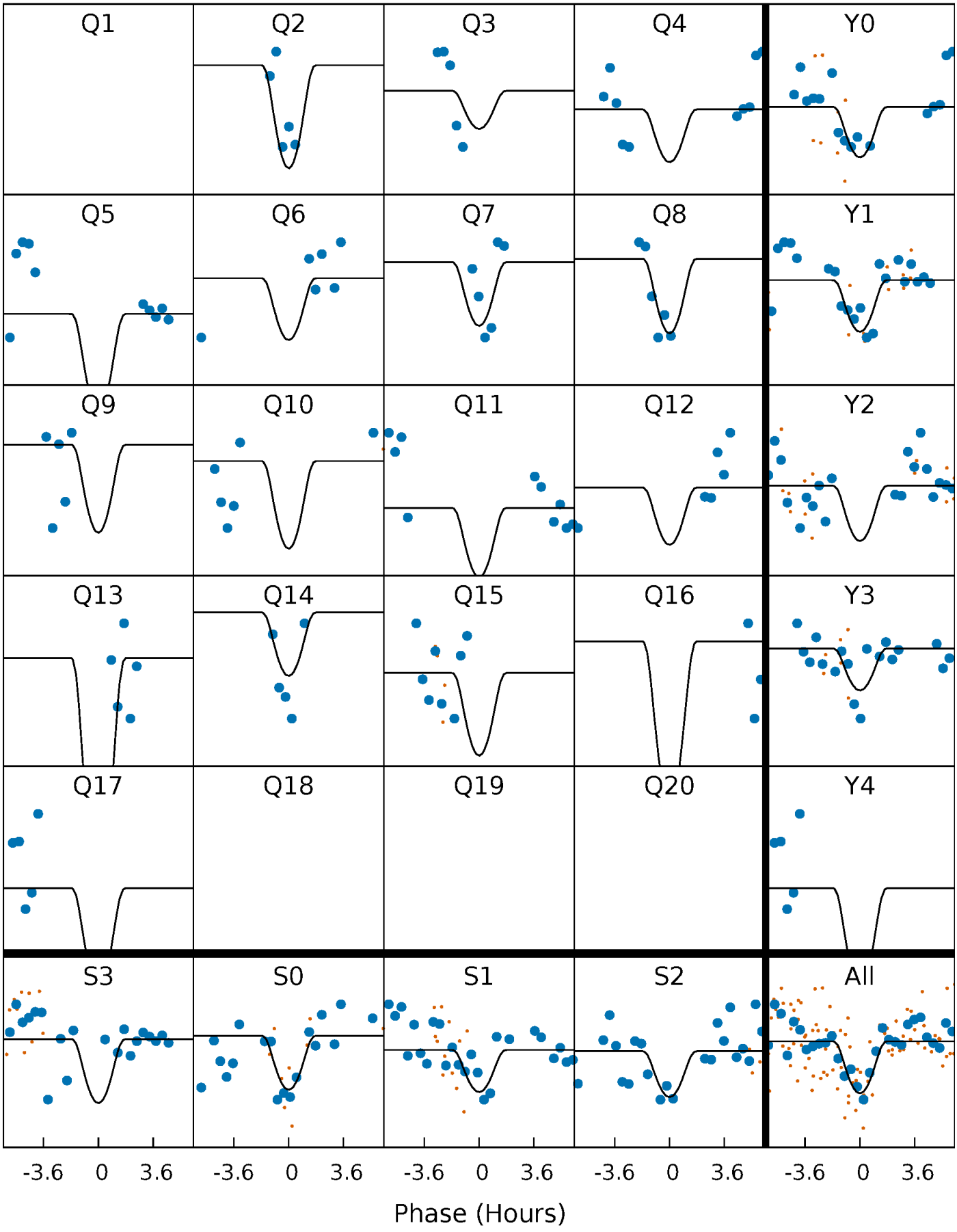
PDC Quarter-Phased Transit Curves

TCE 006367260-03 P= 46.180445 Days T_0=176.343994 (BKJD)



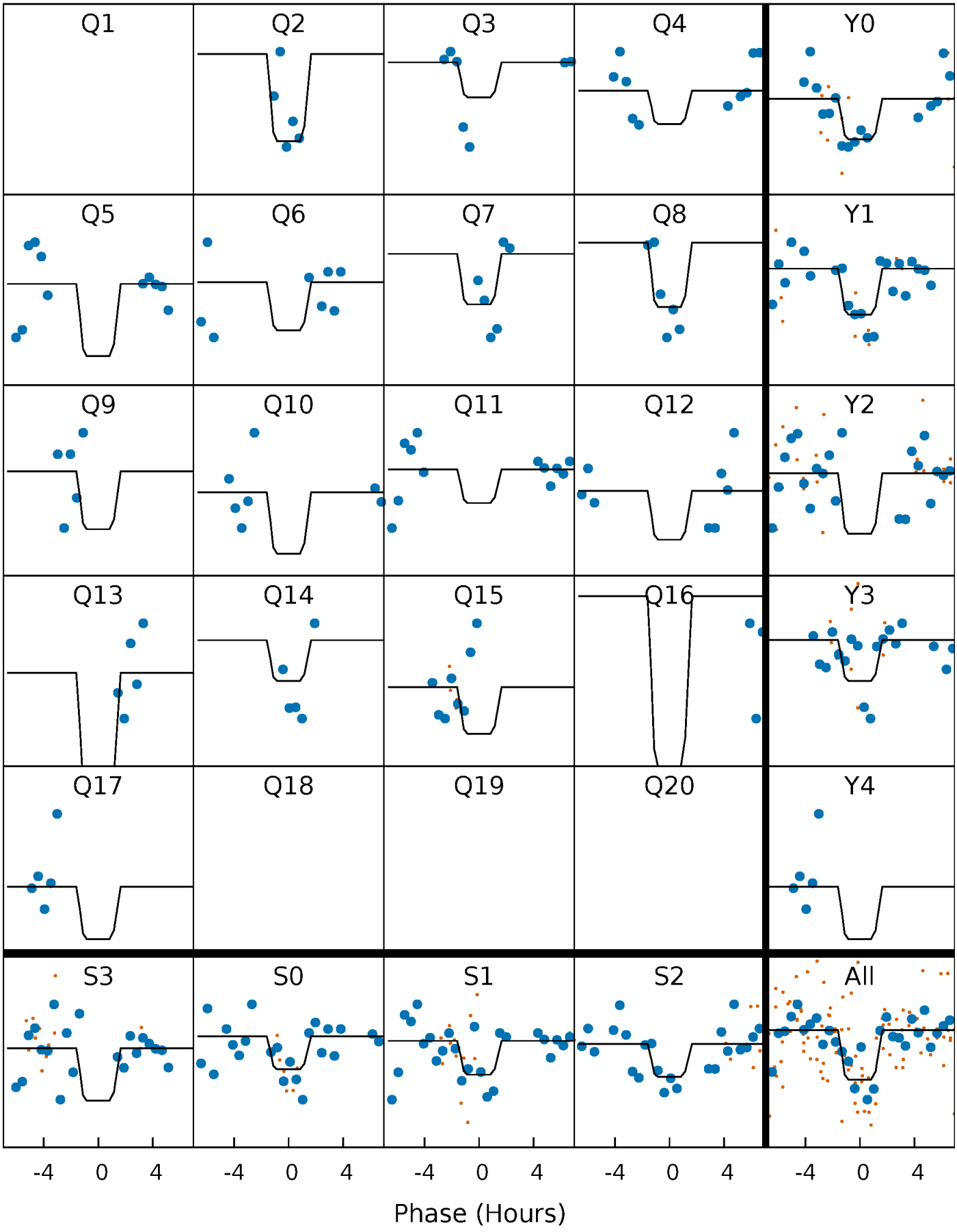
DV Quarter-Phased Transit Curves

TCE 006367260-03 P= 46.180445 Days T_0=176.343994 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

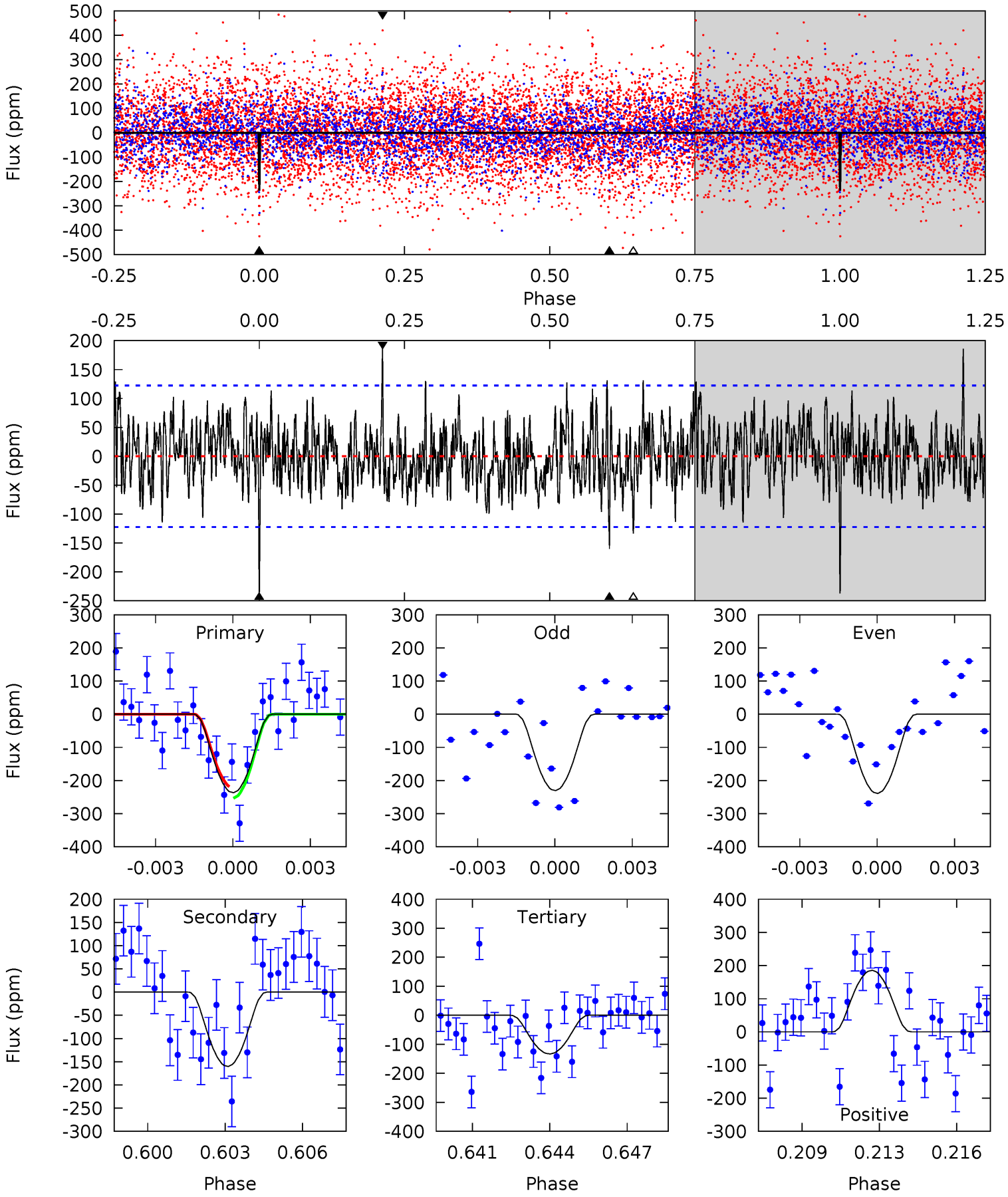
TCE 006367260-03 P= 46.179604 Days T_0=176.339107 (BKJD)



DV Model-Shift Uniqueness Test

006367260-03, P = 46.180445 Days, E = 130.163549 Days

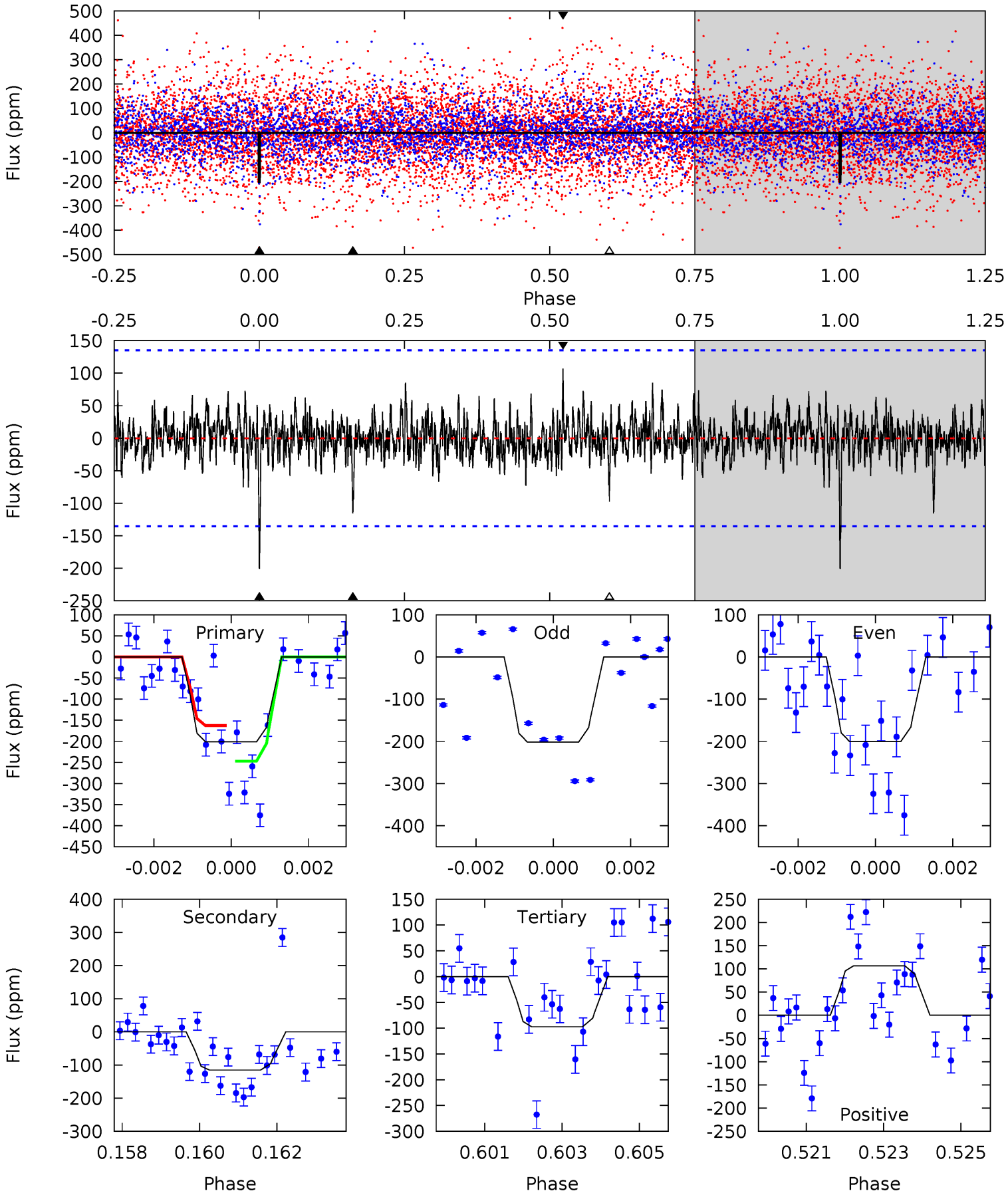
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	6.86	5.71	7.95	5.24	2.95	1.87	4.44	2.20	1.15	-1.09	0.18	1.20	0.44	0.74



Alt Model-Shift Uniqueness Test

006367260-03, P = 46.179604 Days, E = 130.159503 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.89	4.52	3.81	4.18	5.30	3.05	0.96	4.08	3.71	0.71	0.34	0.03	0.96	0.35	0



Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-03 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-160±23	$47.17^{+62.09}_{-30.31}$	1531^{+130}_{-234}	2905^{+1183}_{-668}	$3.892^{+26.783}_{-3.172}$
Alt.	-115±26	$48.71^{+53.09}_{-32.29}$	1545^{+124}_{-211}	2733^{+1243}_{-601}	$2.377^{+22.212}_{-1.821}$

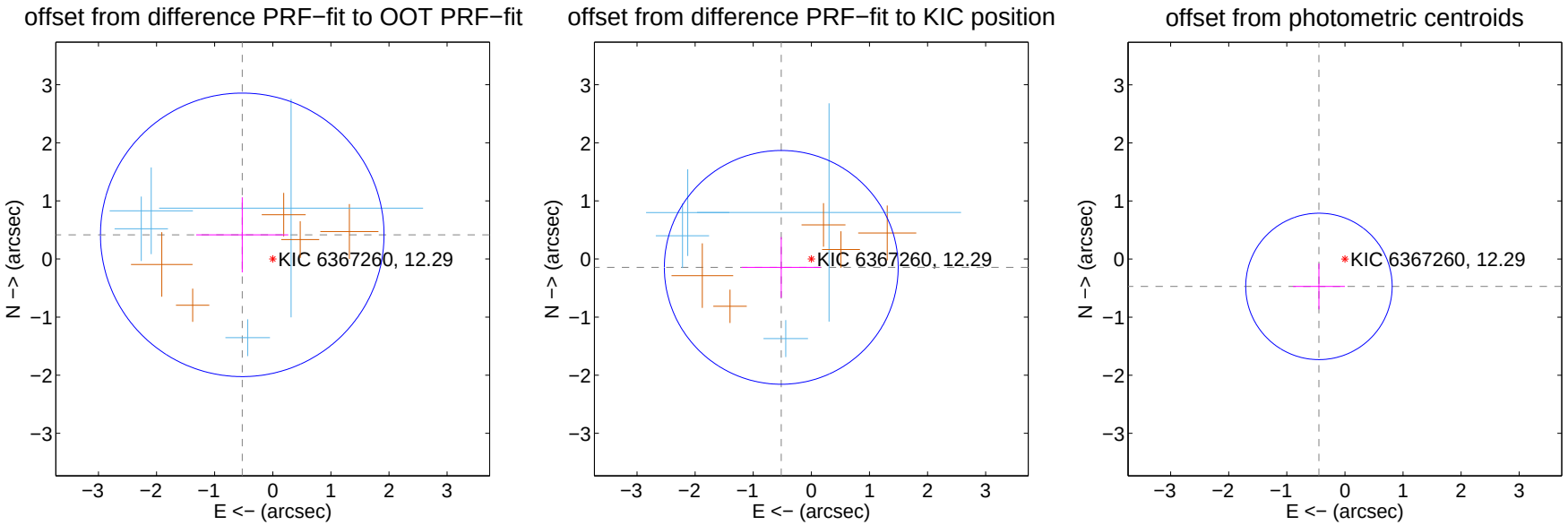
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

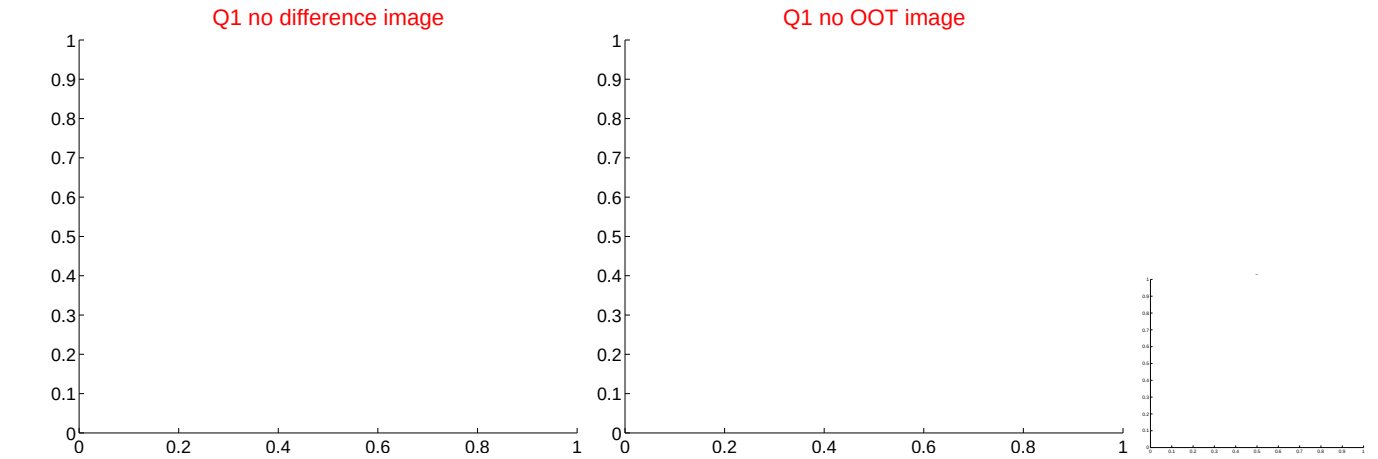
Supplemental centroid analysis for 006367260-03. Kepler magnitude: 12.29. Transit SNR 10.49
There are 4 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

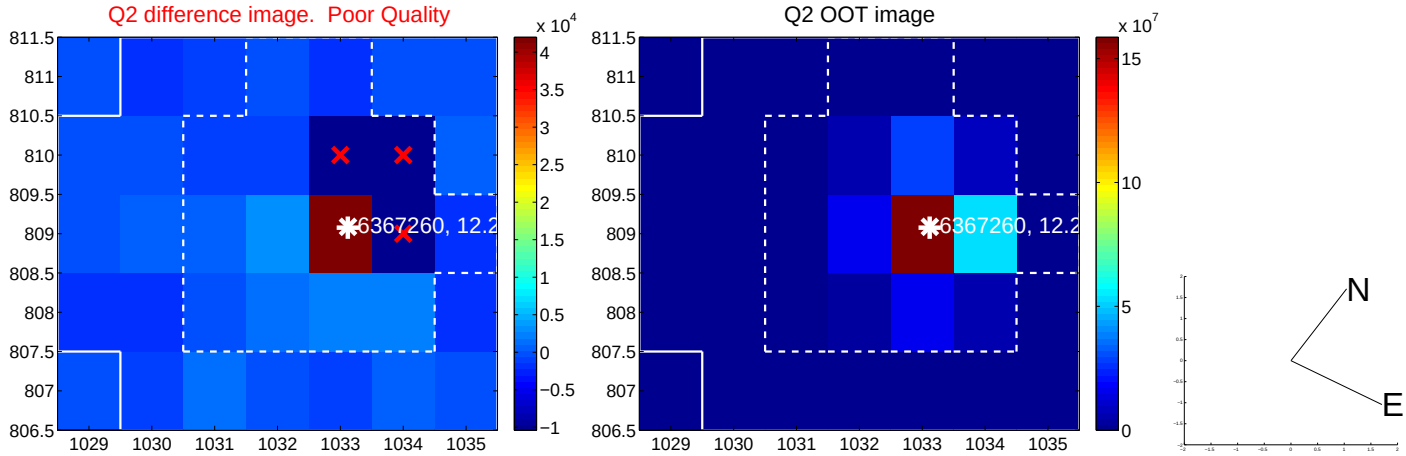
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.670 ± 0.813	0.82	0.526 ± 0.792	0.416 ± 0.646
PRF-fit source offset from KIC position	0.537 ± 0.671	0.80	0.518 ± 0.681	-0.144 ± 0.521
photometric centroid source offset	0.65 ± 0.42	1.55	0.45 ± 0.45	-0.47 ± 0.39

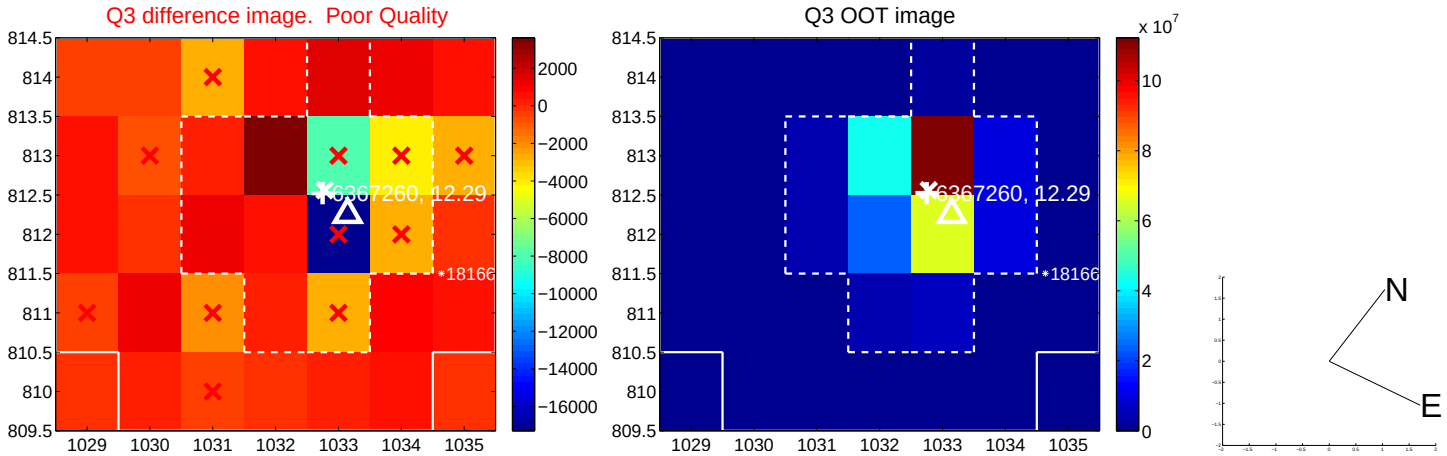


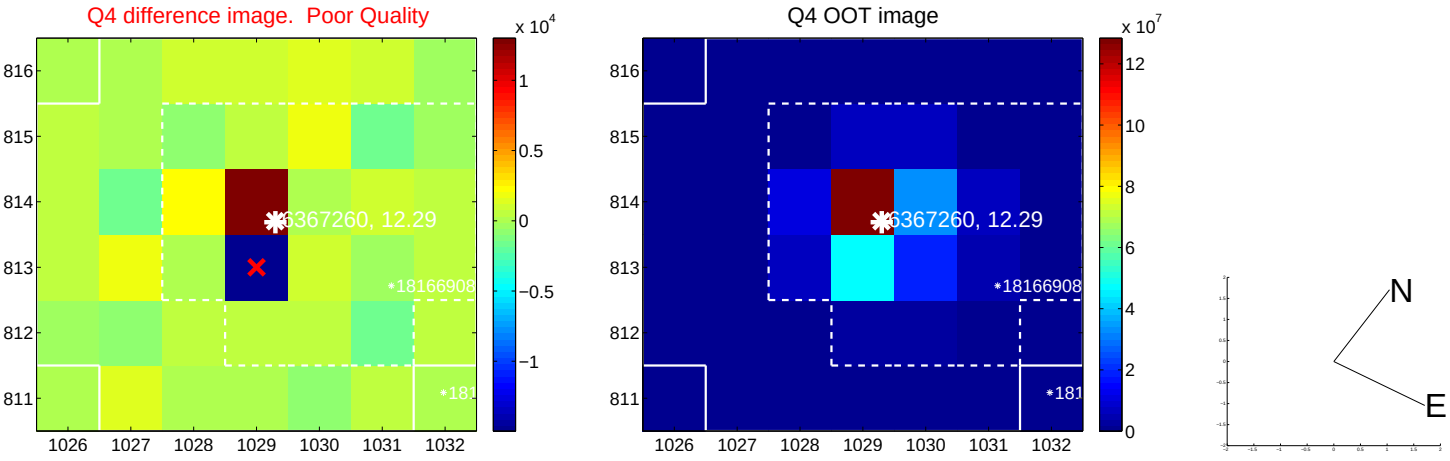
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

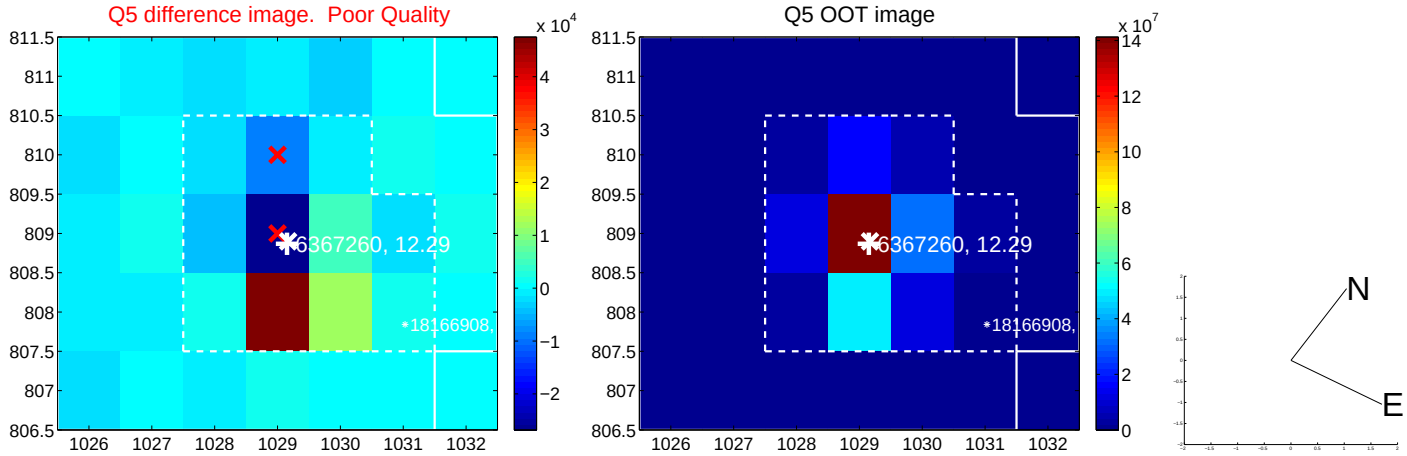


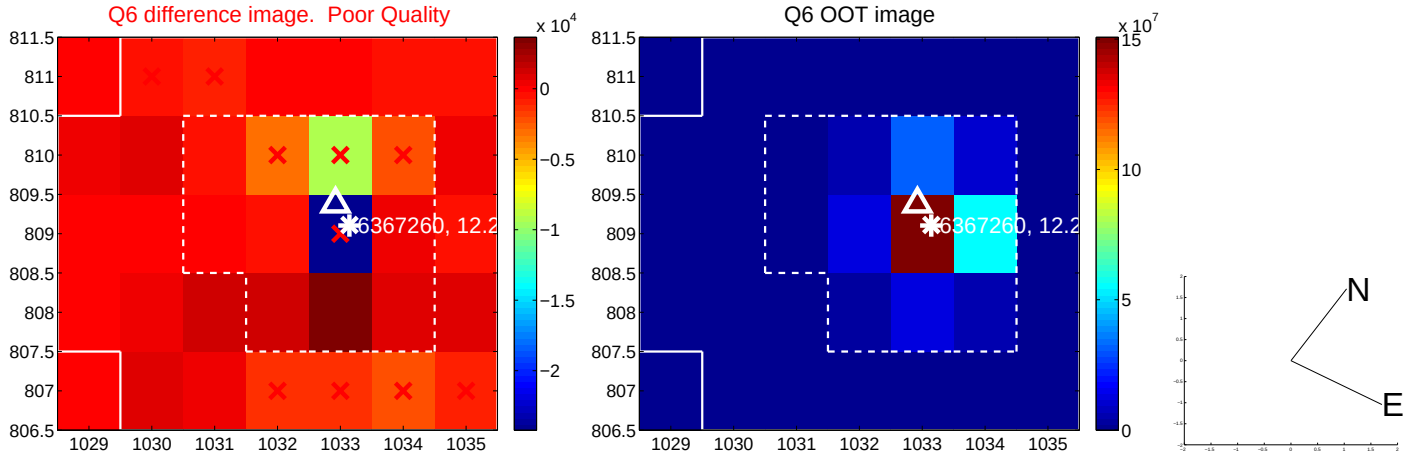


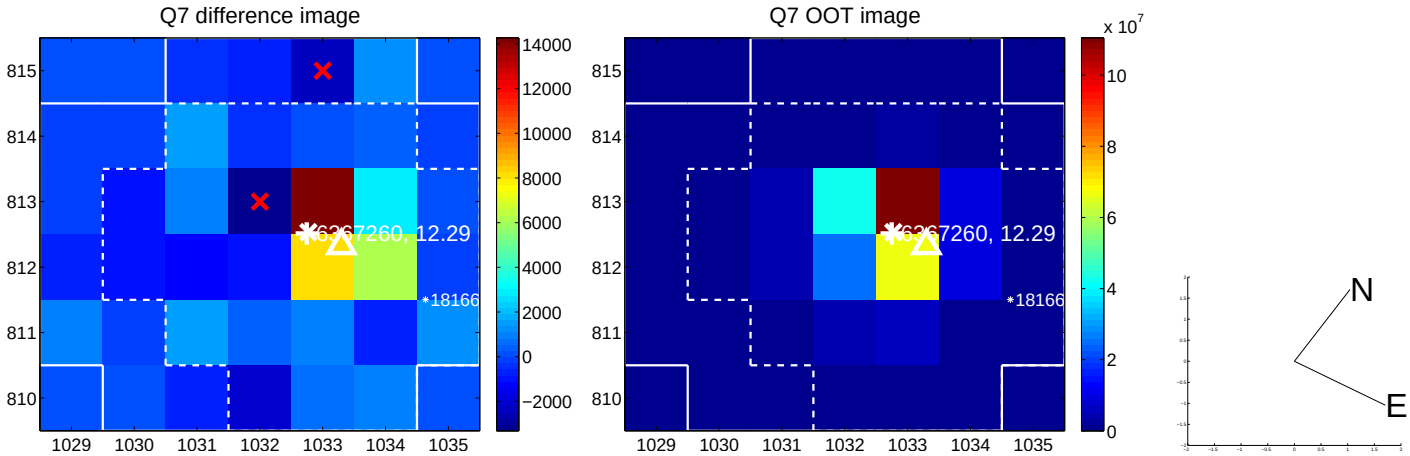


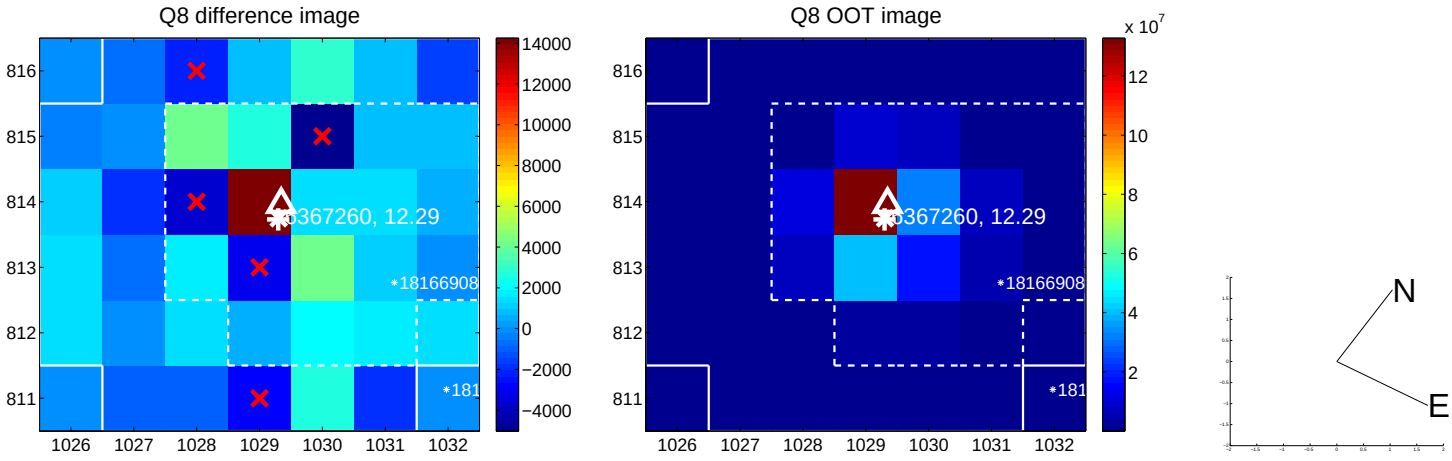


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

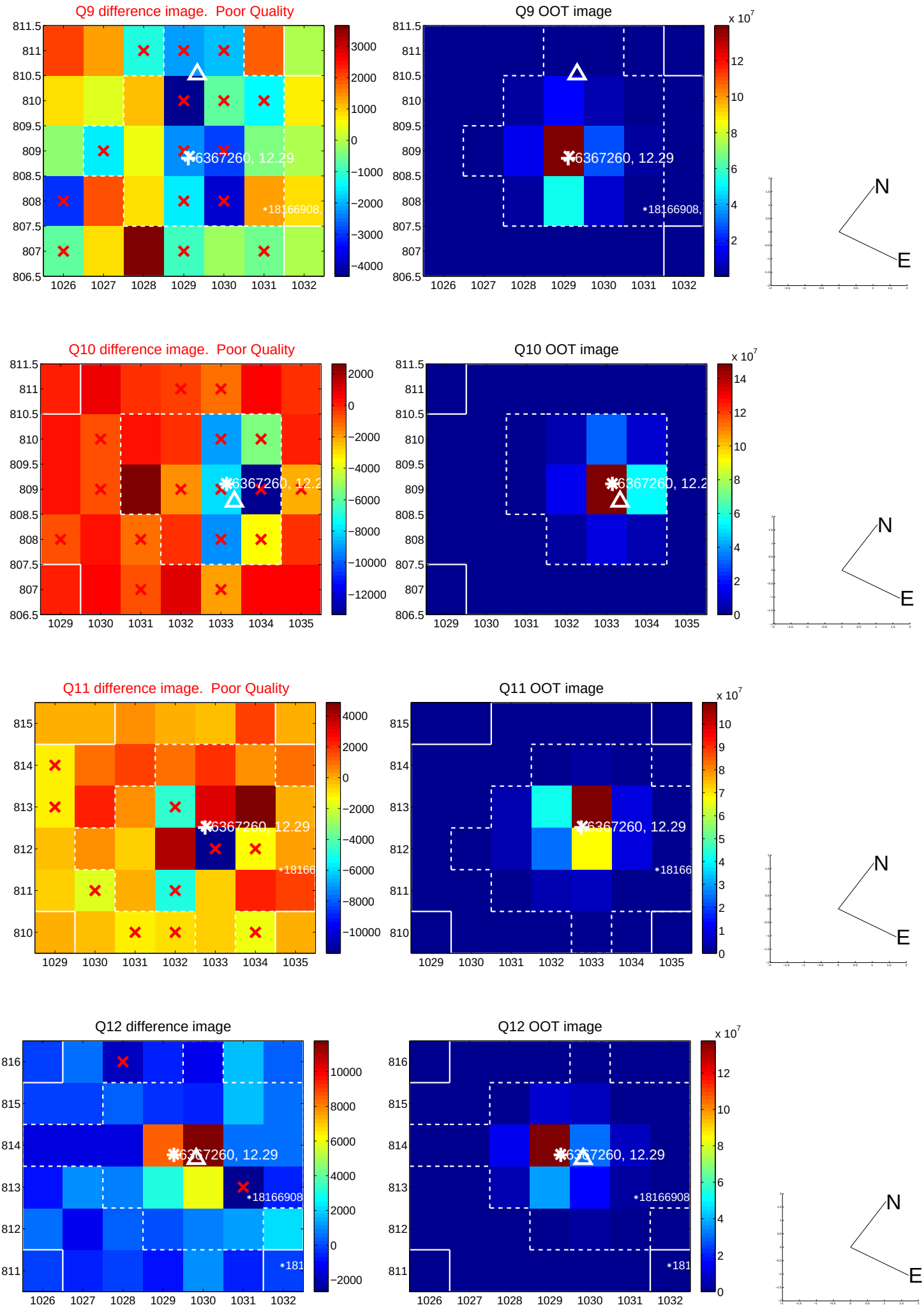




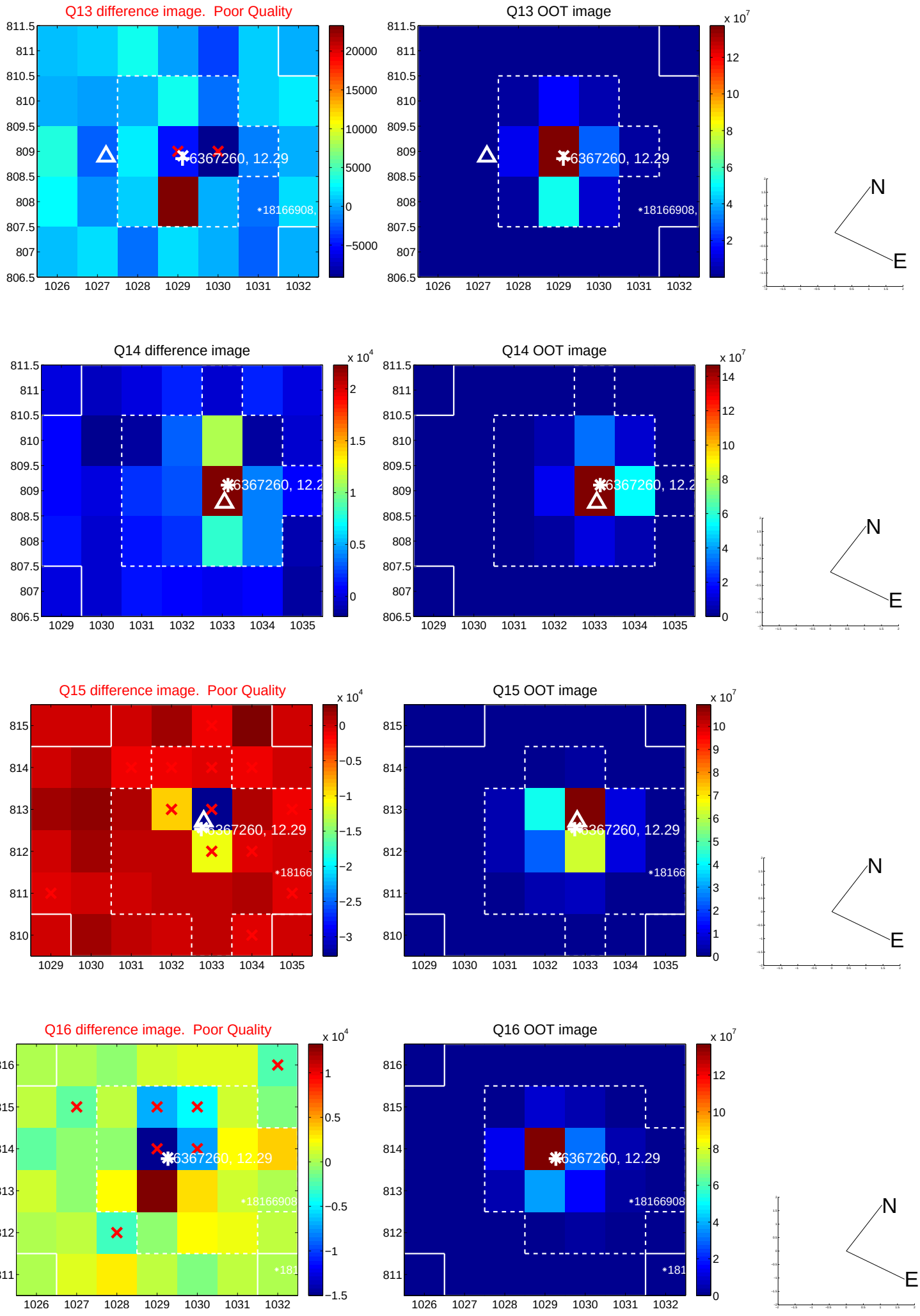




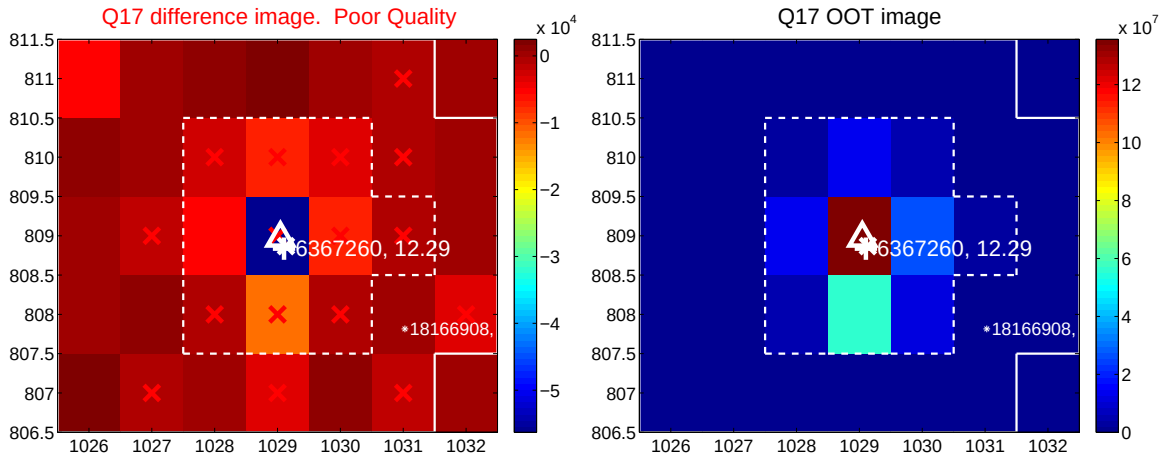
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

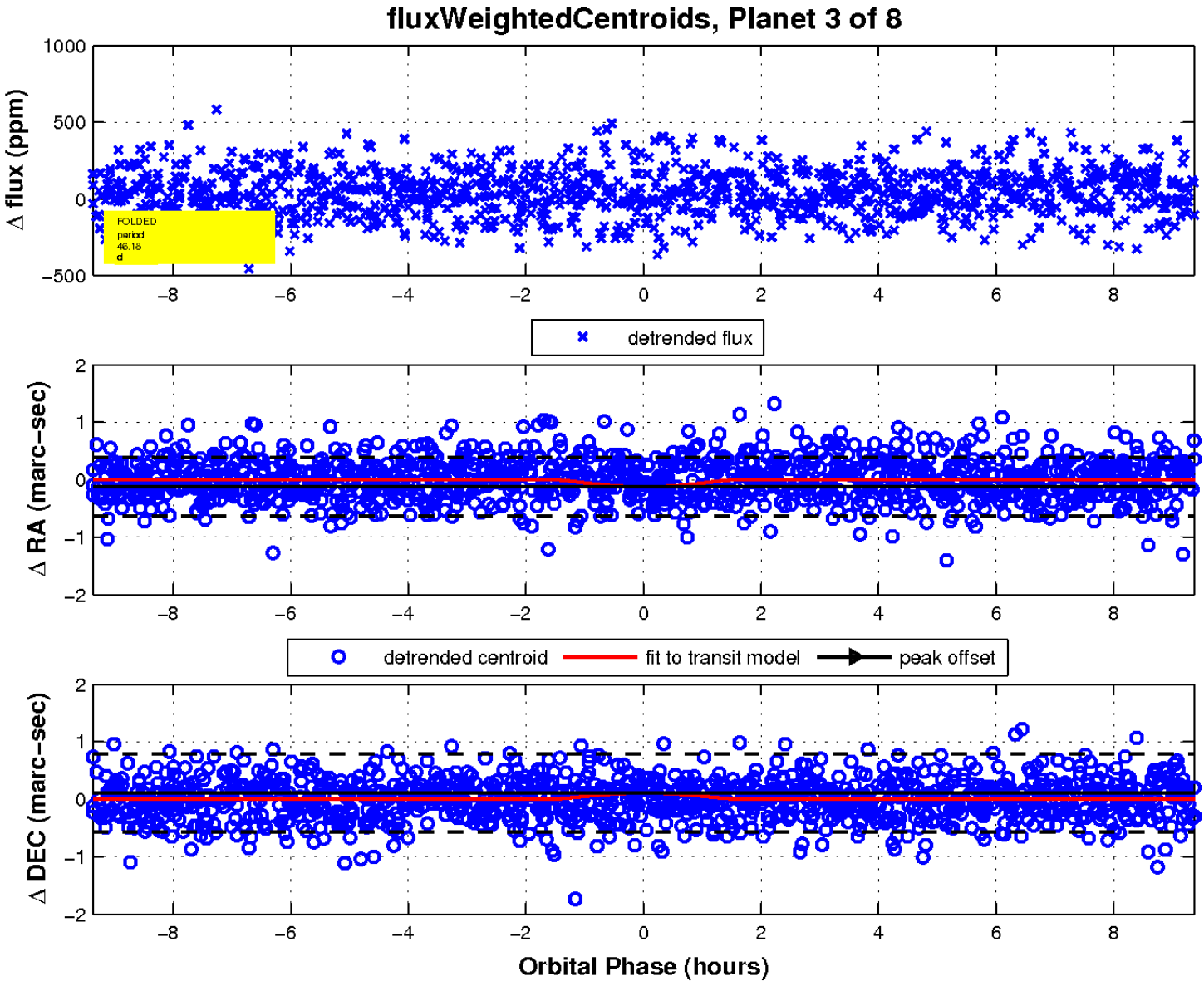


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

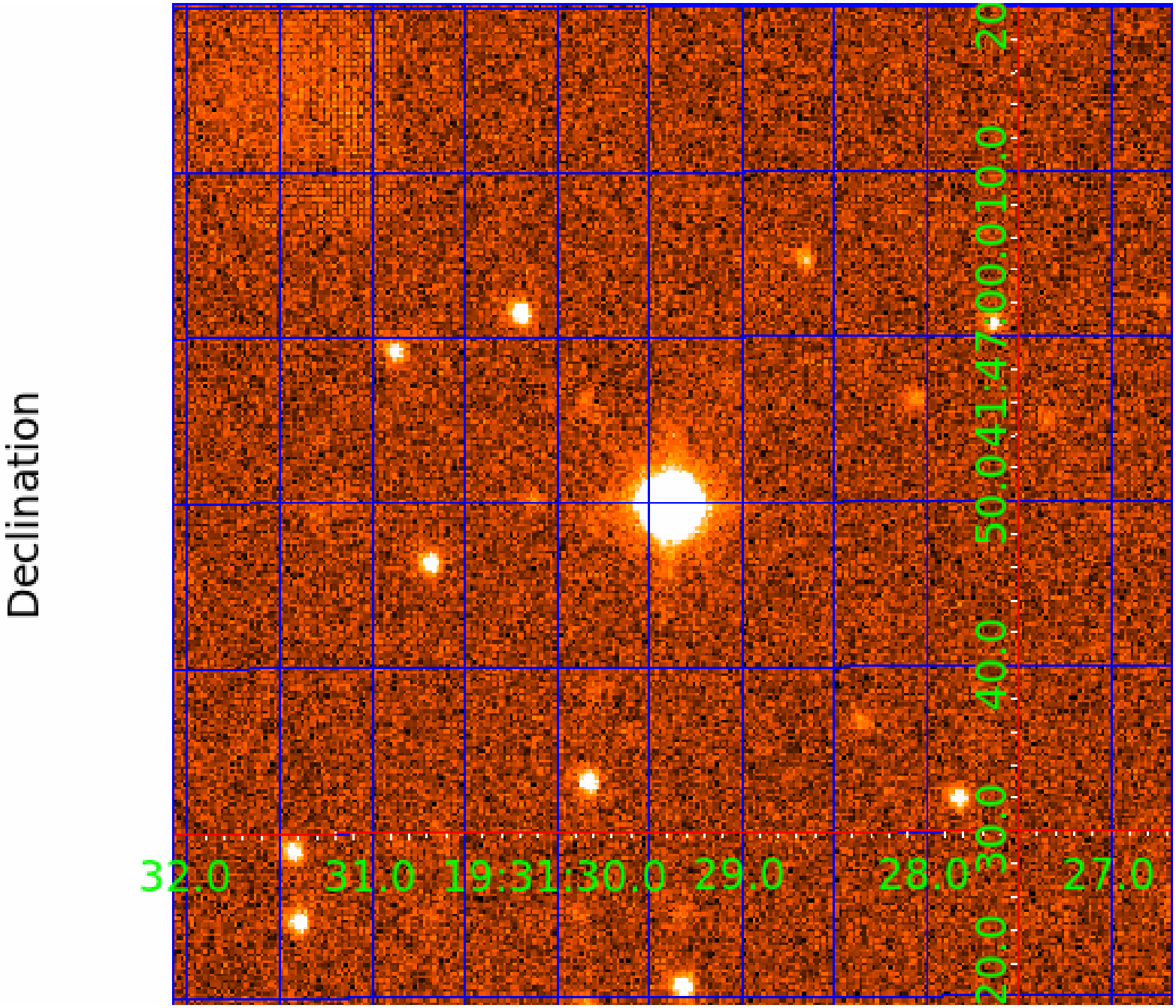


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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10.0
20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

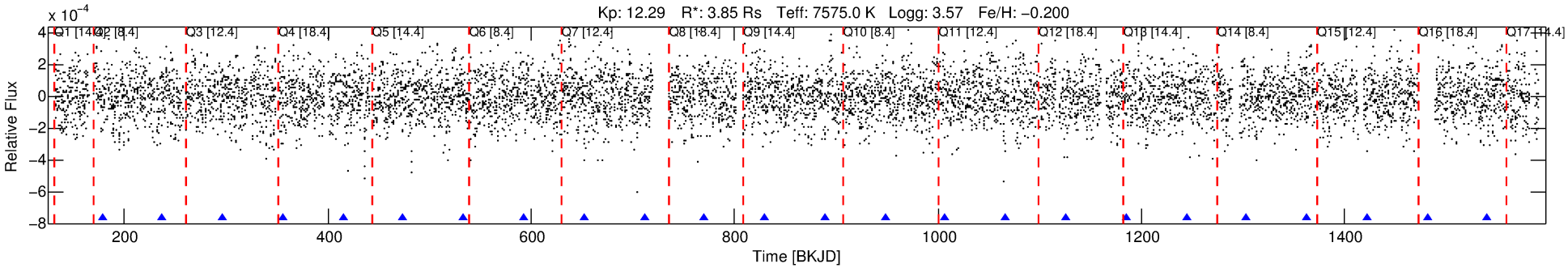
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

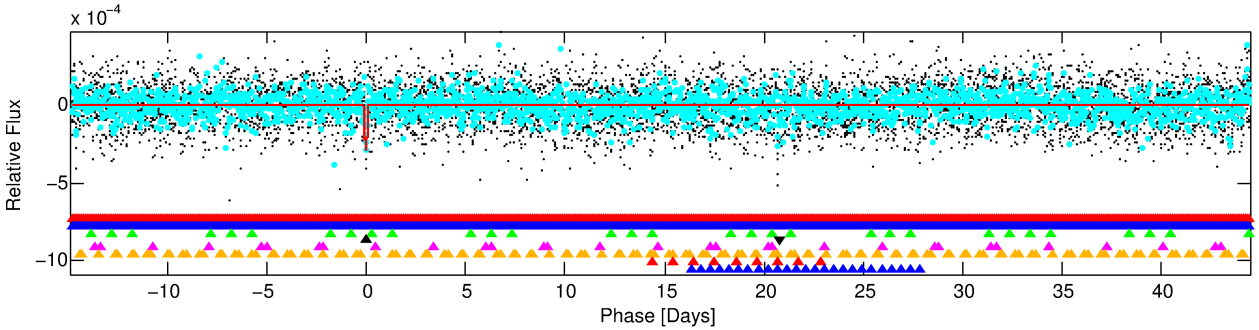
Ephemeris Match Information For 006367260-04

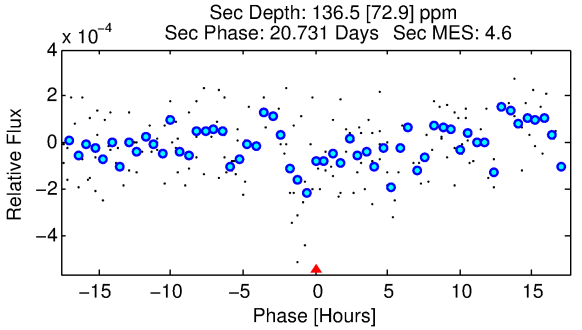
No Significant Match Found

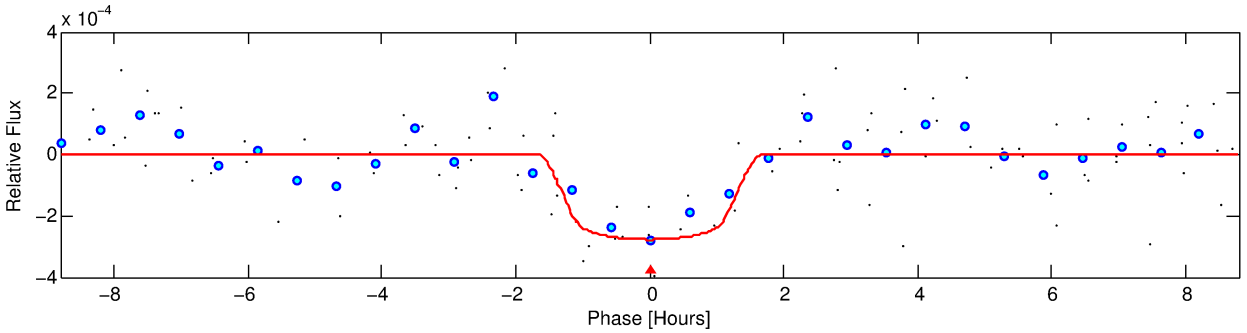
DV One-Page Summary

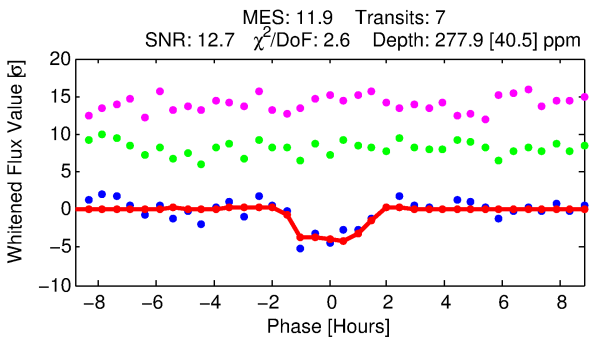
KIC: 6367260 Candidate: 4 of 8 Period: 59.228 d

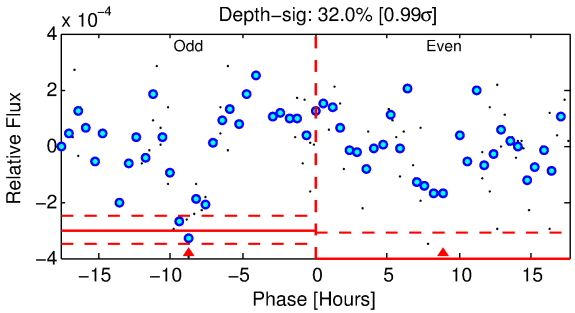


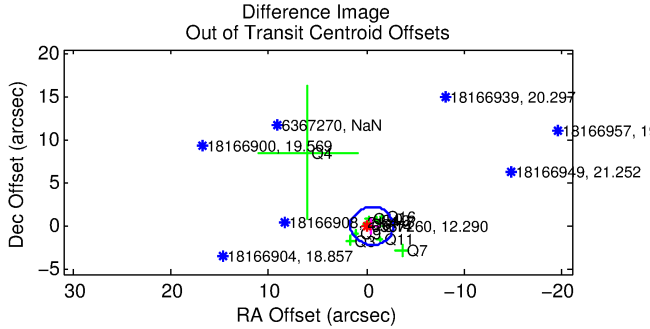












DV Fit Results:

Period = 59.22773 [0.00077] d
Epoch = 178.1319 [0.0106] BKJD
Rp/R* = 0.0179 [0.0366]
a/R* = 74.63 [852.87]
b = 0.90 [2.58]

Seff = 310.43 [295.60]
Teq = 1070 [255] K
Rp = 7.51 [15.97] Re
a = 0.3752 [0.2152] AU

Ag = 187.17 [792.17] [0.24σ]
Teffp = 6121 [6320] K [0.80σ]

DV Diagnostic Results:

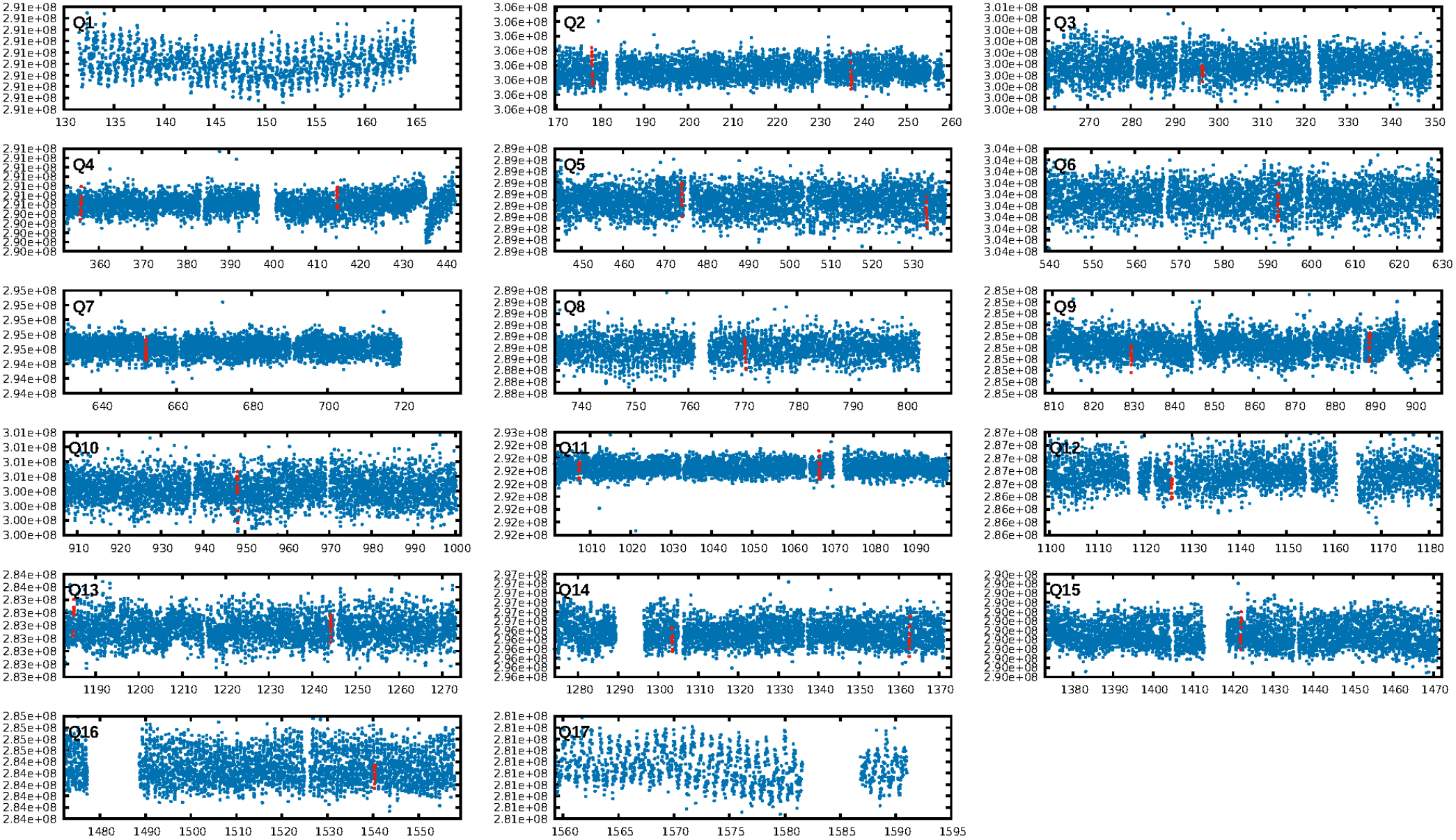
ShortPeriod−sig: 100.0% [79.45σ]
LongPeriod−sig: 99.9% [3.22σ]
ModelChiSquare2−sig: 14.6%
ModelChiSquareGof−sig: 99.9%
Bootstrap−pfa: 4.99e−11
RollingBand−fgt: 1.00 [7/7]
GhostDiagnostic−chr: −0.8767

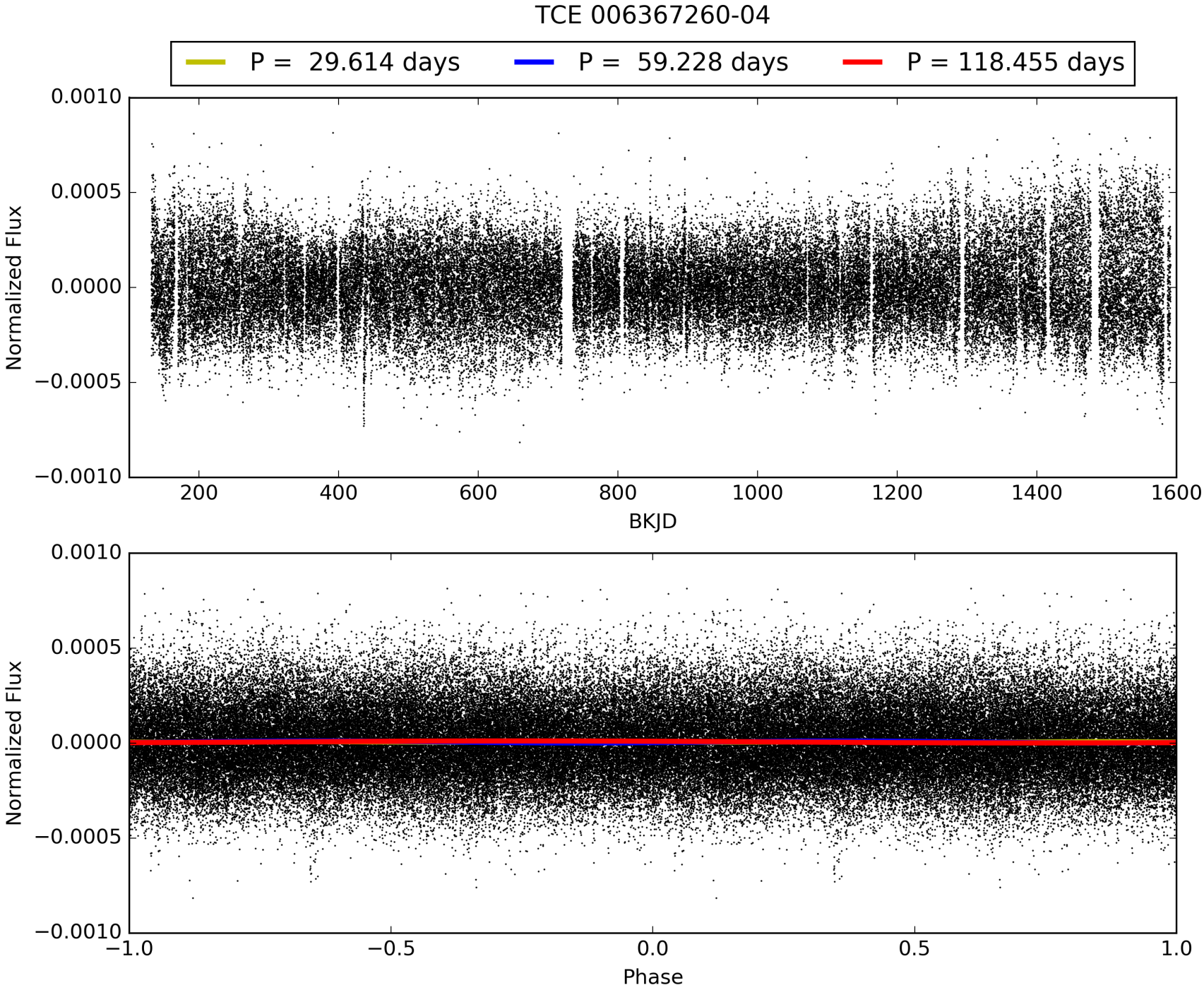
Centroid−sig: 1.3%
Centroid−so: 0.668 arcsec [1.89σ]
OotOffset−rm: 0.545 arcsec [0.75σ]
KicOffset−rm: 0.516 arcsec [0.62σ]
OotOffset−st: 3/3/2/2 [10]
KicOffset−st: 3/3/2/2 [10]
DiffImageQuality−fgm: 0.60 [6/10]
DiffImageOverlap−fno: 0.00 [0/14]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:06:00 Z

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

TCE 006367260-04, PDC Light Curves

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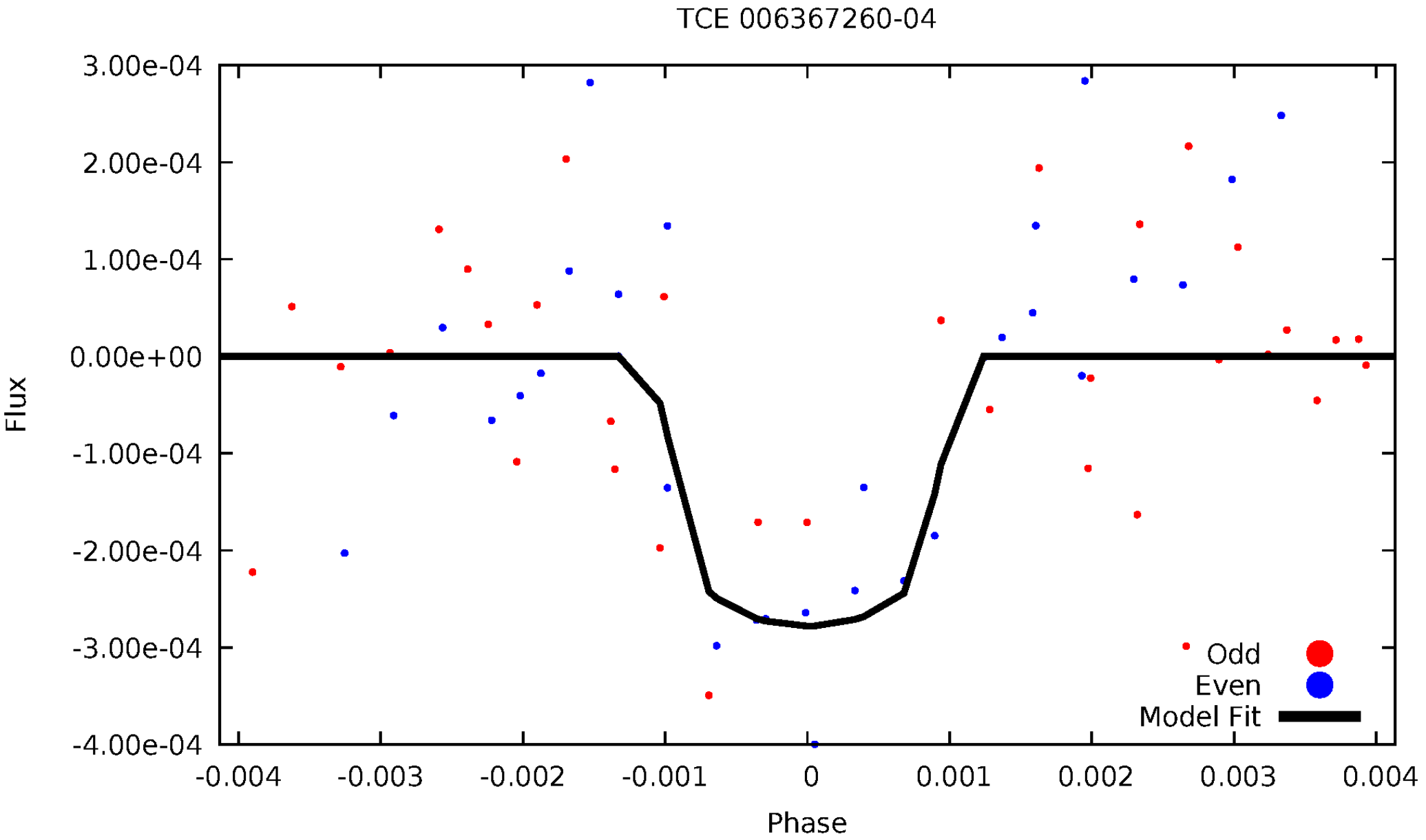
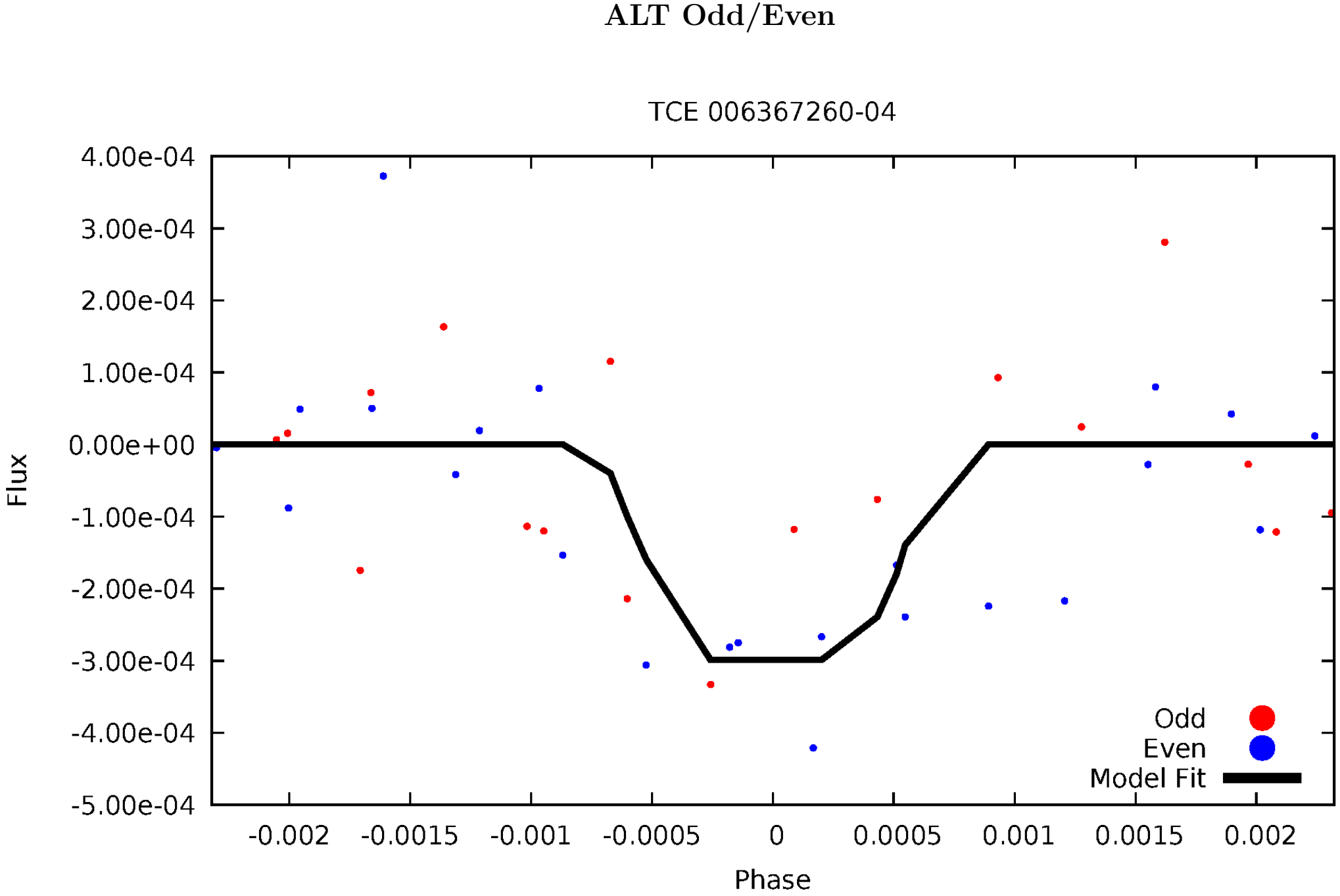
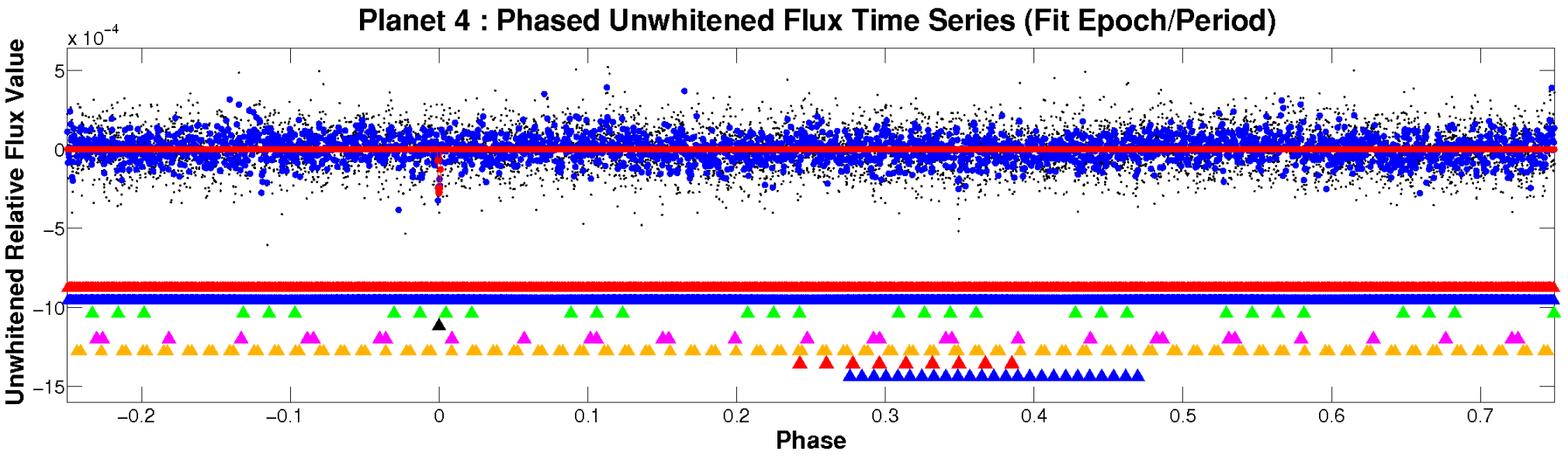
P = 29.614 days
P = 59.228 days
P = 118.455 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

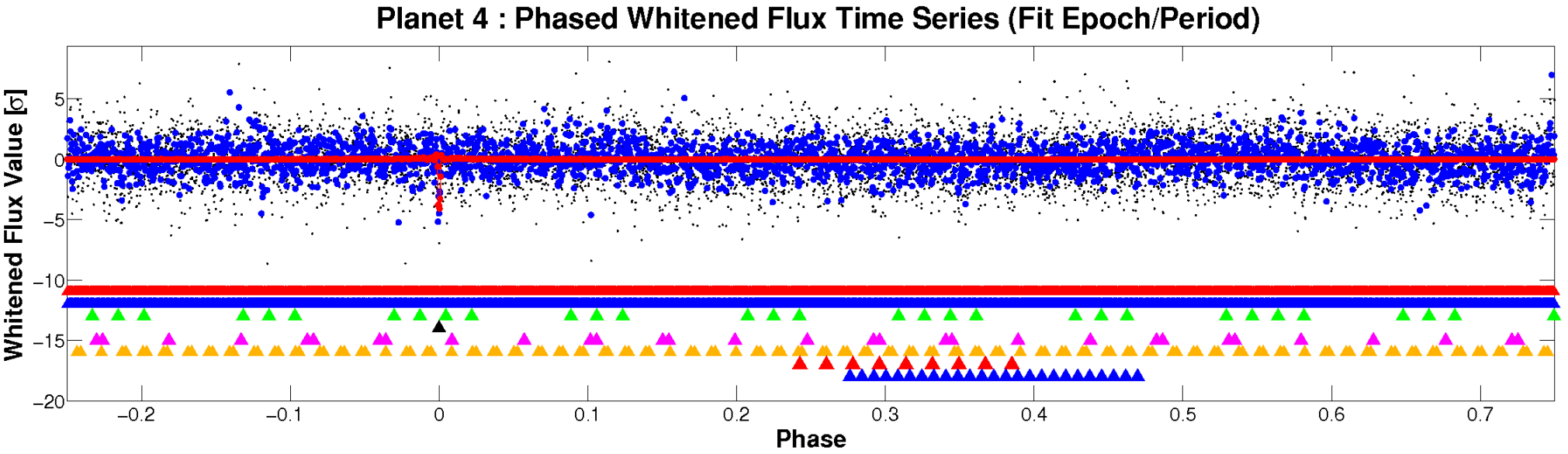
DV Odd/Even


TCE 006367260-04
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
Flux
-0.004
-0.003
-0.002
-0.001
0
0.001
0.002
0.003
0.004
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-04
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
-0.002
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
0.002
Phase
Odd
Even
Model Fit

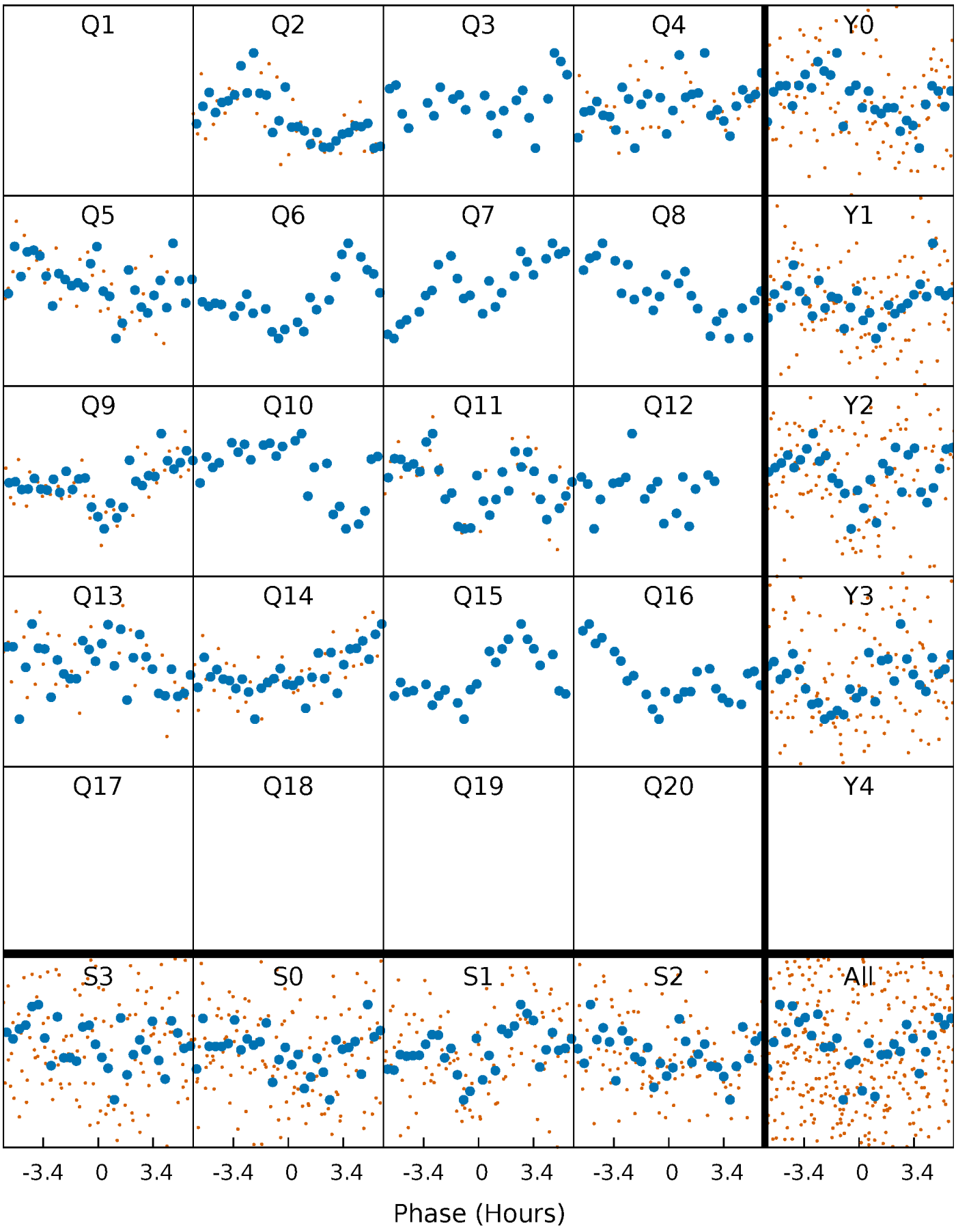
Non-Whitened Vs. Whitened Light Curve





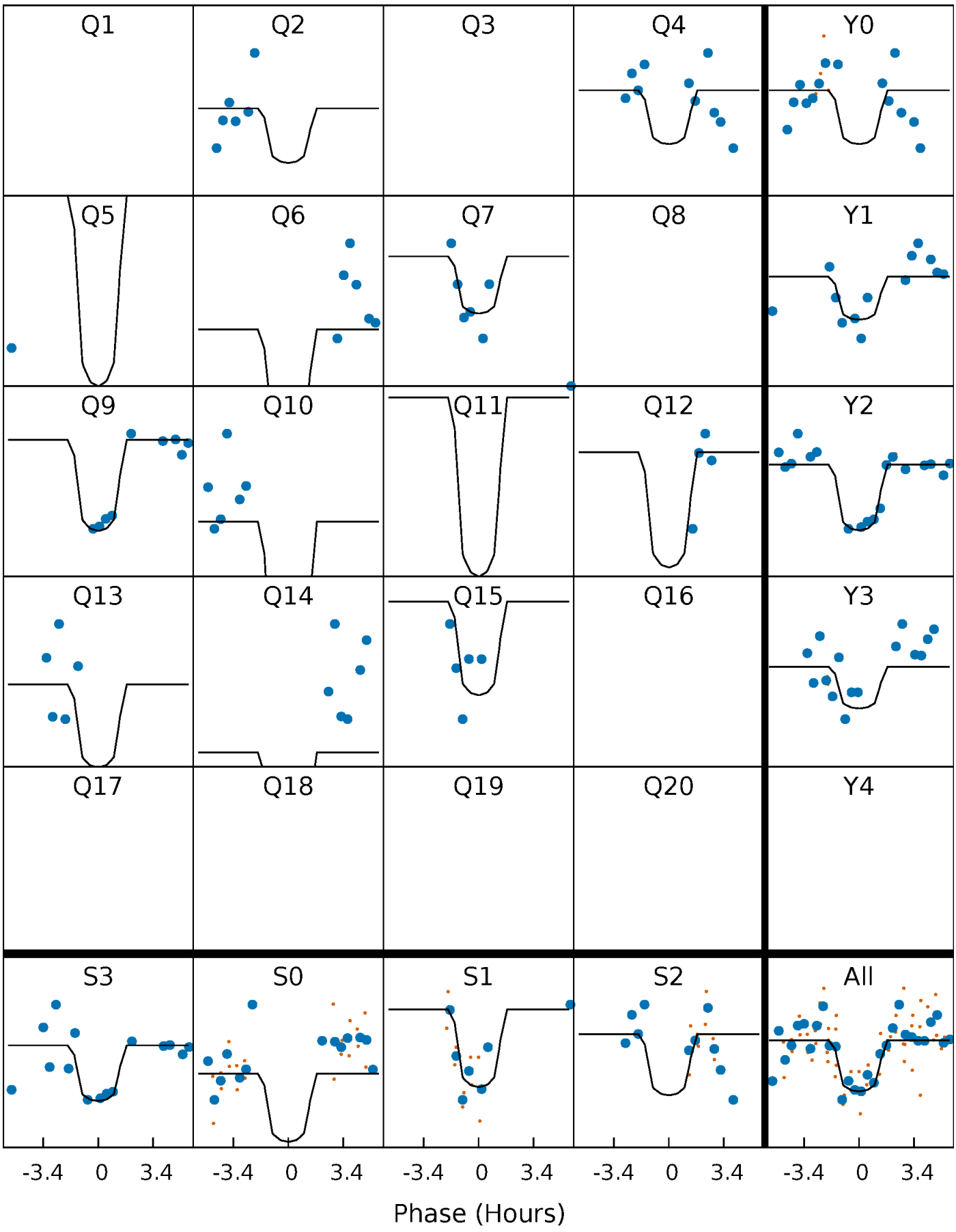
PDC Quarter-Phased Transit Curves

TCE 006367260-04 P= 59.227727 Days T_0=178.131855 (BKJD)



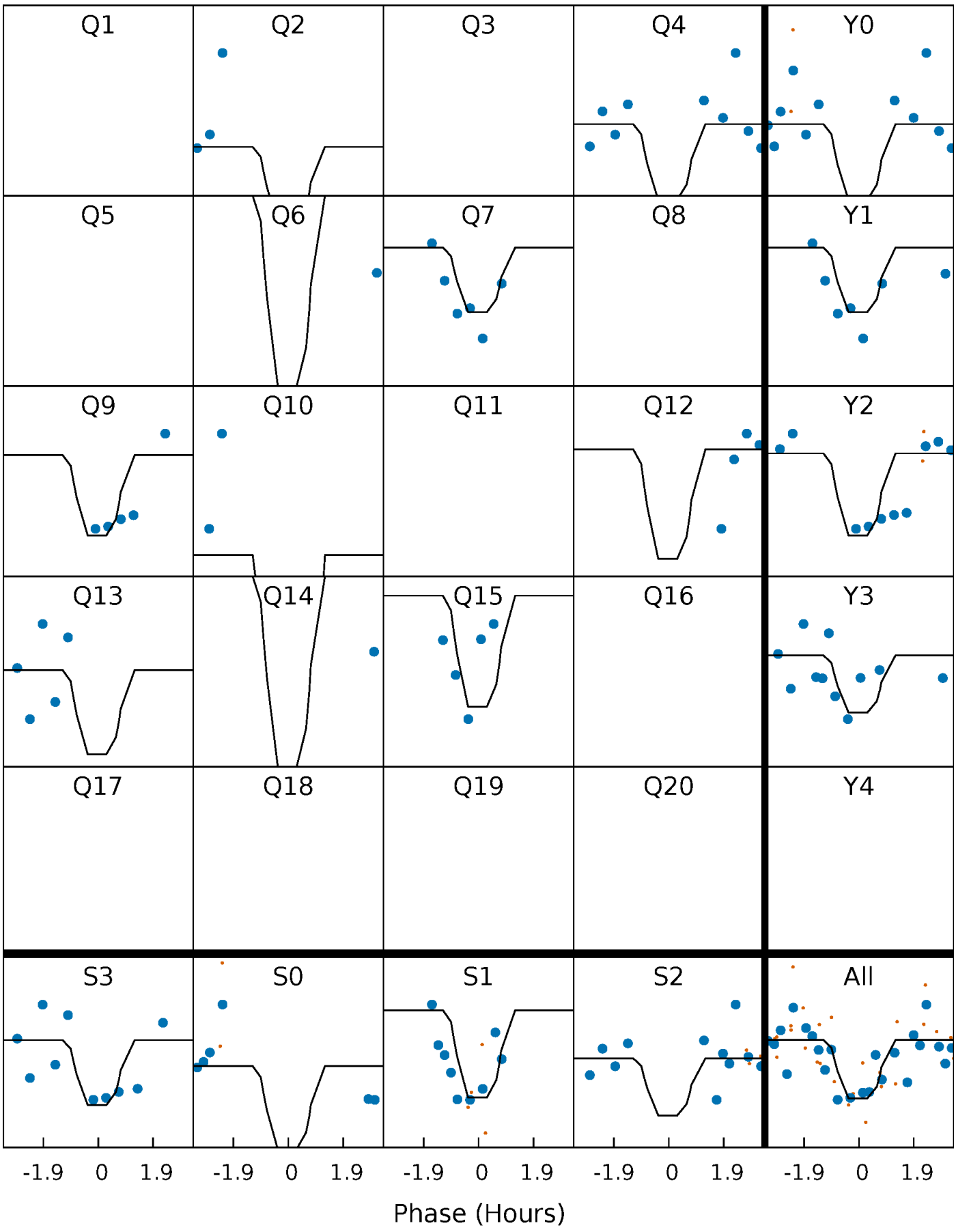
DV Quarter-Phased Transit Curves

TCE 006367260-04 P= 59.227727 Days T_0=178.131855 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

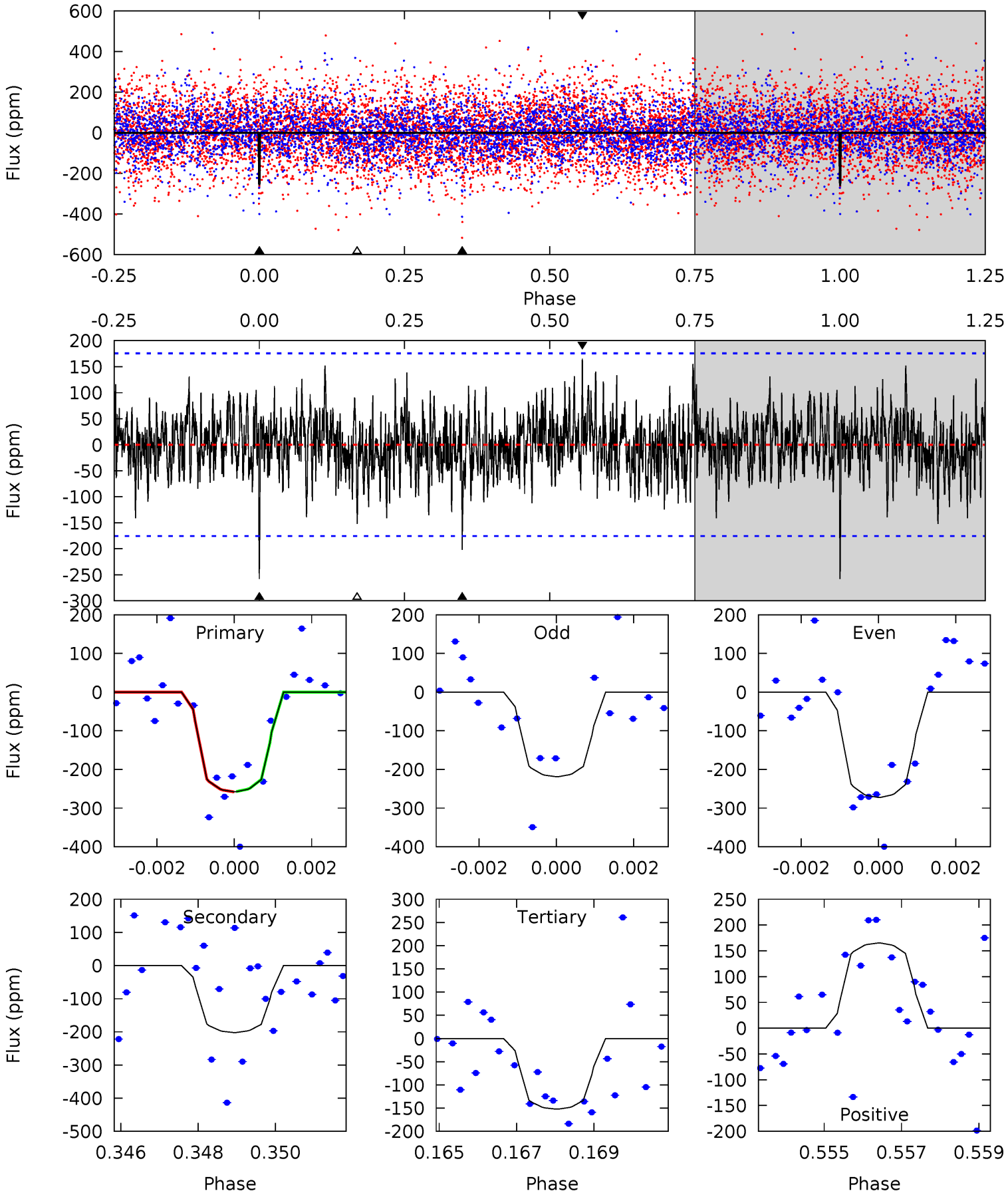
TCE 006367260-04 P= 59.226271 Days T_0=178.136721 (BKJD)



DV Model-Shift Uniqueness Test

006367260-04, P = 59.227727 Days, E = 118.904128 Days

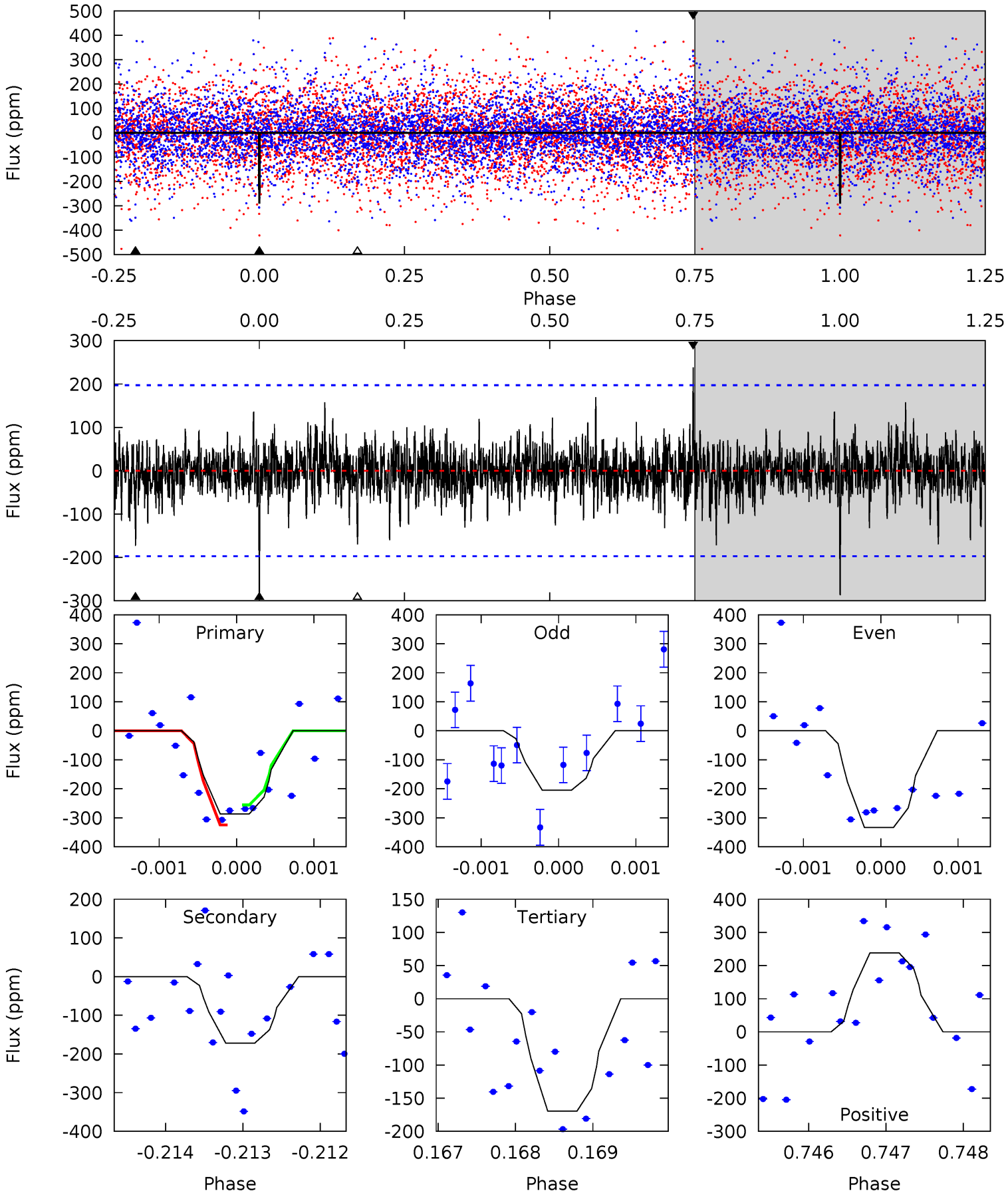
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.83	6.14	4.62	5.02	5.33	3.10	1.40	3.21	2.81	1.52	1.12	0.67	1.01	0.39	0.01



Alt Model-Shift Uniqueness Test

006367260-04, P = 59.226271 Days, E = 118.910450 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.87	4.72	4.66	6.54	5.42	3.23	1.12	3.21	1.33	0.06	-1.82	1.71	0.99	0.45	0.95



Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-04 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-202±33	$11.41^{+11.17}_{-7.85}$	1417^{+113}_{-200}	5026^{+4041}_{-1129}	124^{+1173}_{-95}
Alt.	-172±36	$11.26^{+11.66}_{-7.94}$	1419^{+110}_{-206}	4808^{+4167}_{-1066}	98^{+1126}_{-76}

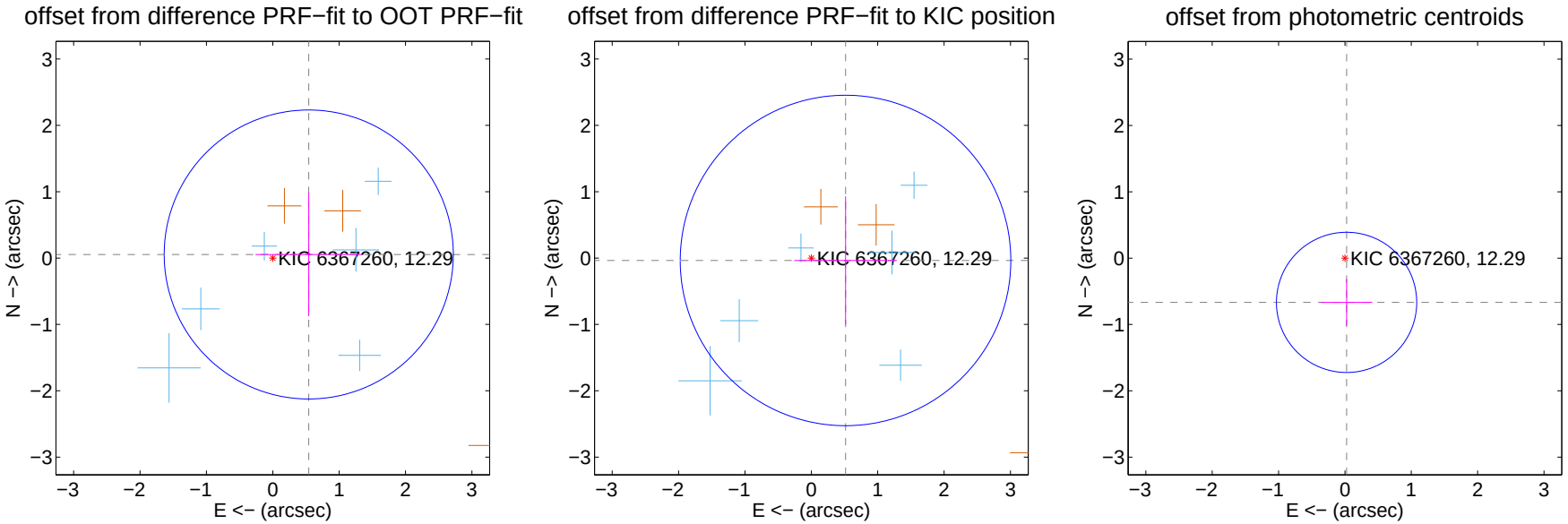
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

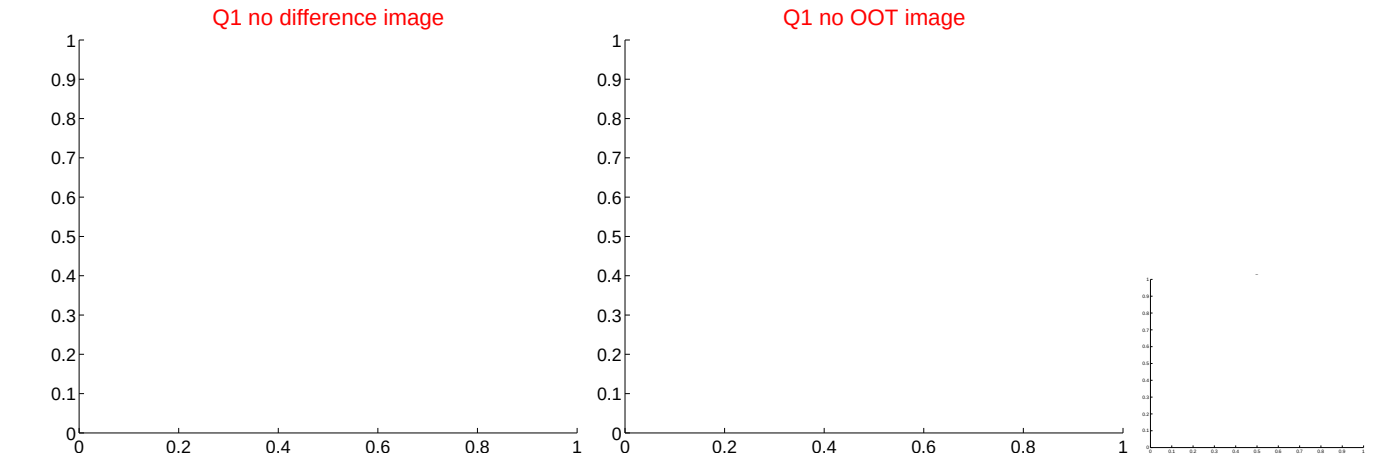
Supplemental centroid analysis for 006367260-04. Kepler magnitude: 12.29. Transit SNR 12.65
There are 6 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

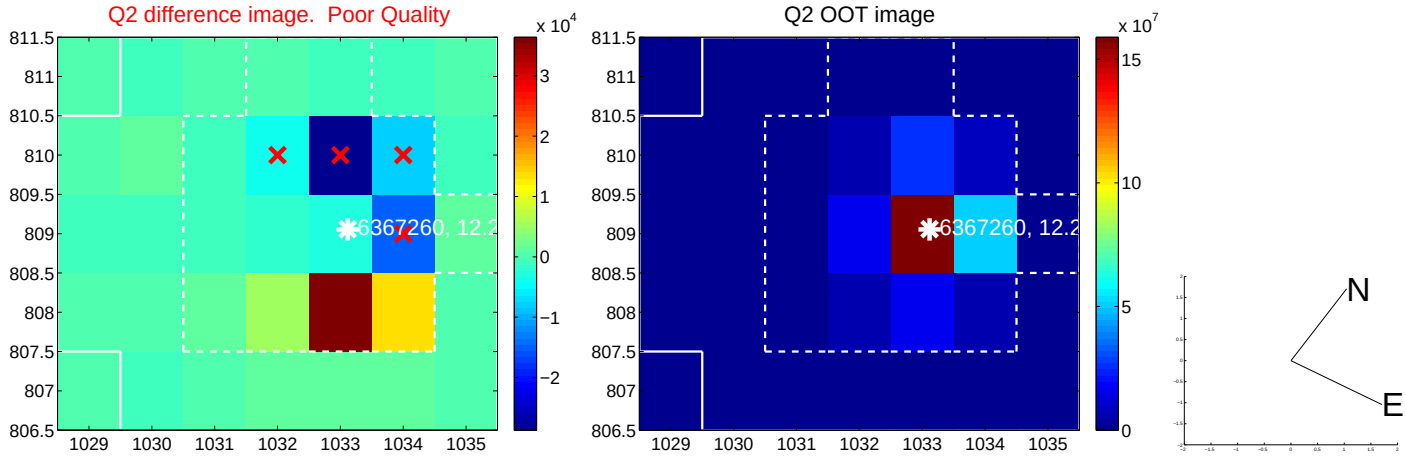
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.545 ± 0.726	0.75	-0.542 ± 0.802	0.054 ± 0.930
PRF-fit source offset from KIC position	0.516 ± 0.830	0.62	-0.515 ± 0.774	-0.036 ± 0.967
photometric centroid source offset	0.67 ± 0.35	1.89	-0.03 ± 0.39	-0.67 ± 0.35

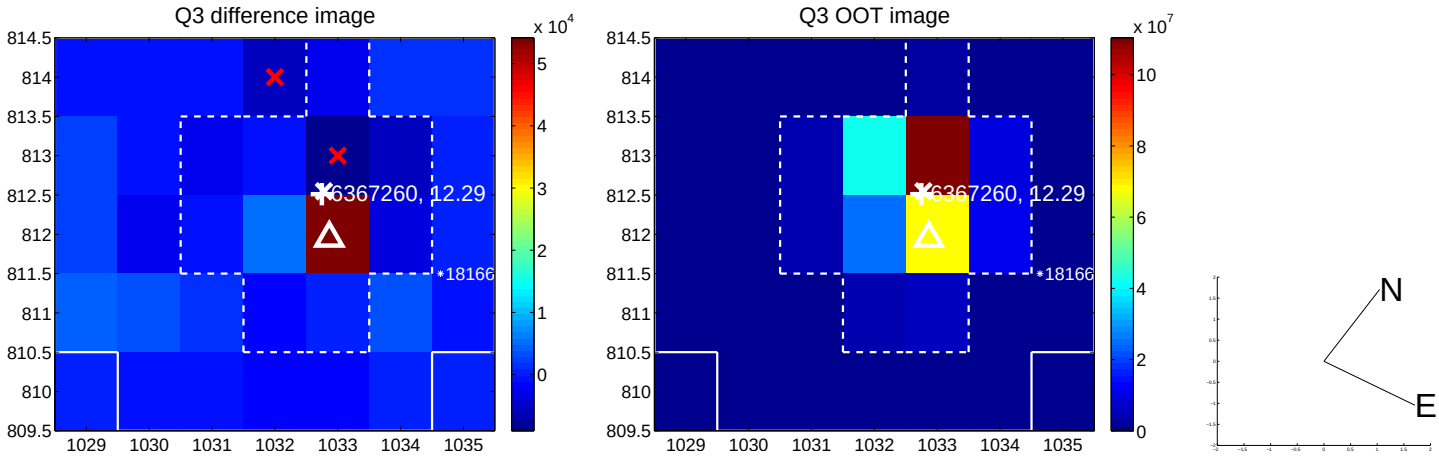


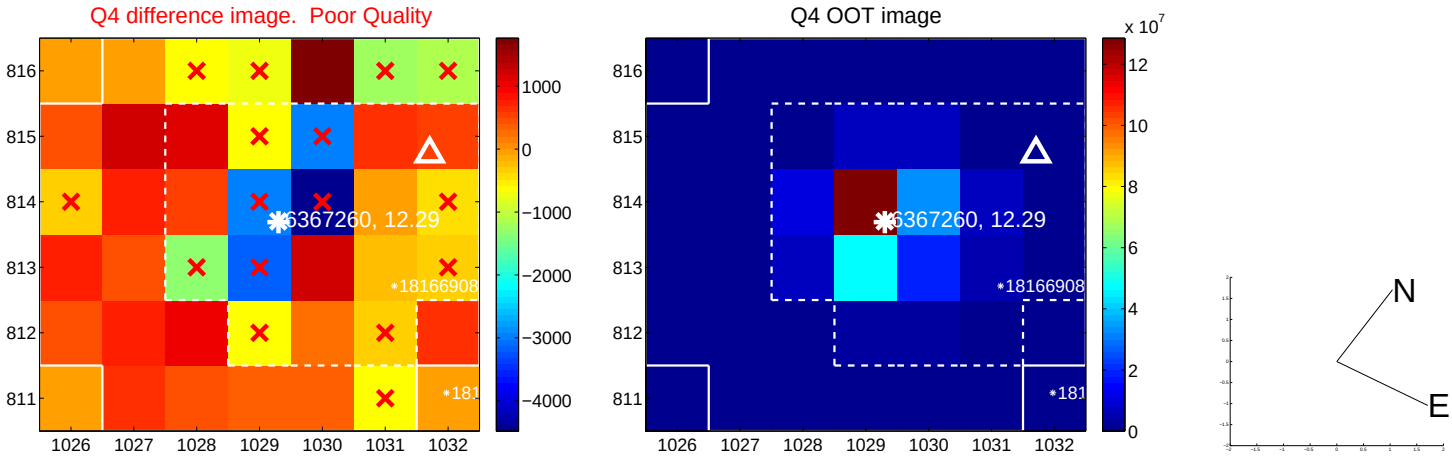
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

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

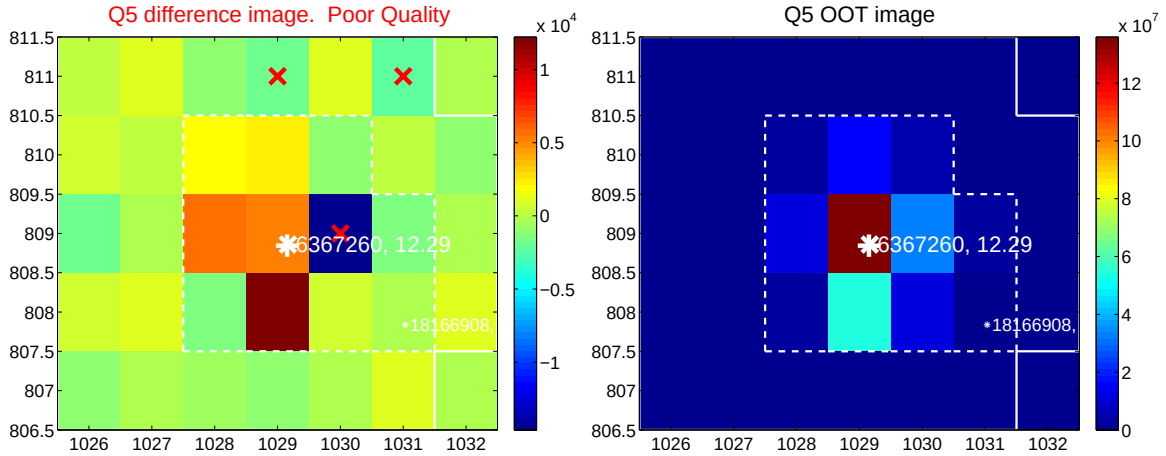


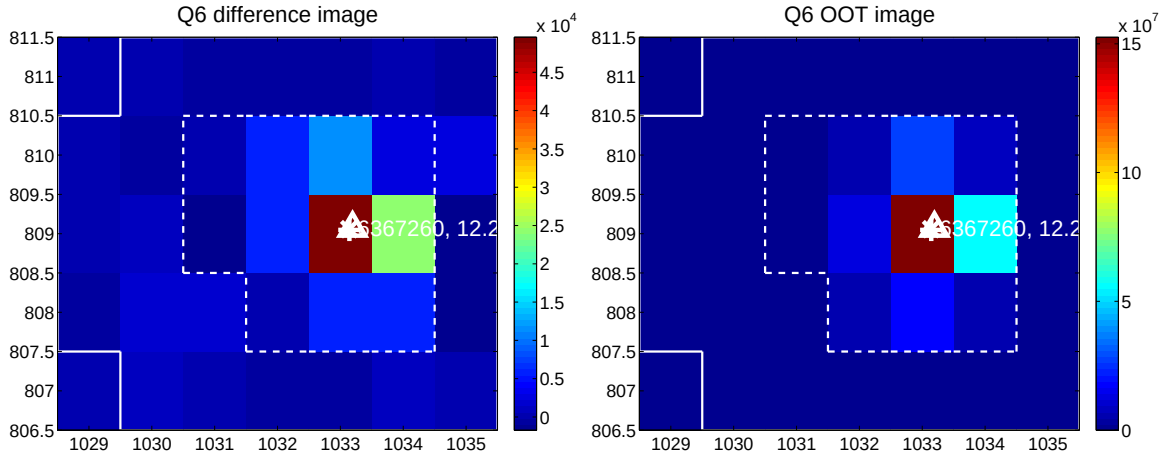


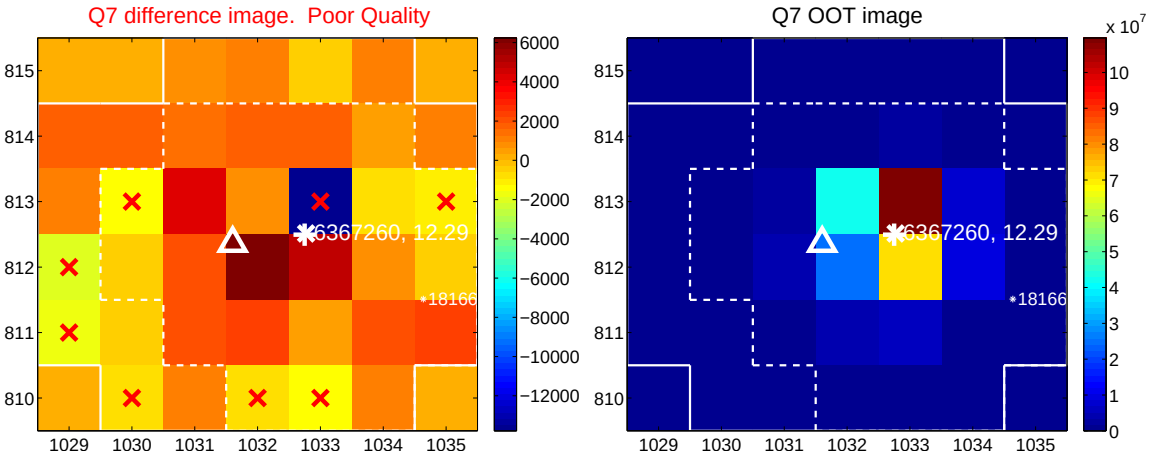


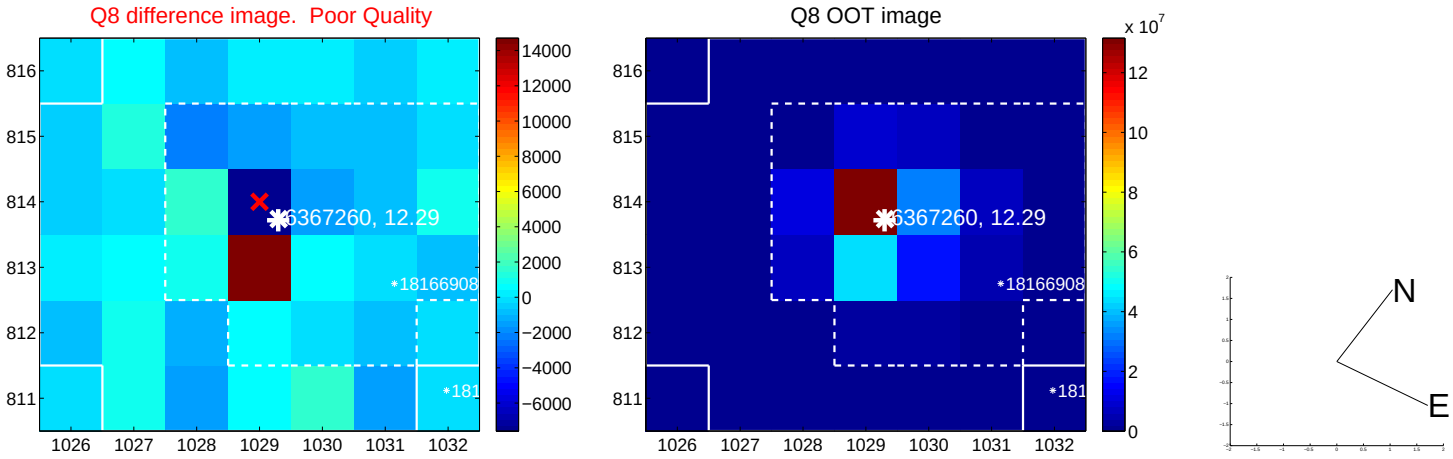


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

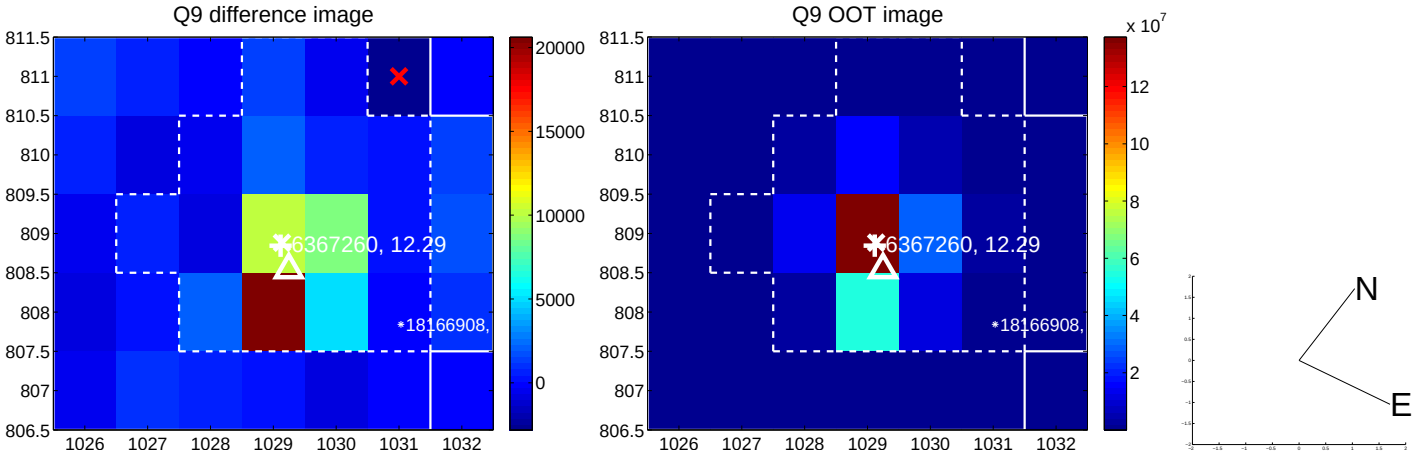


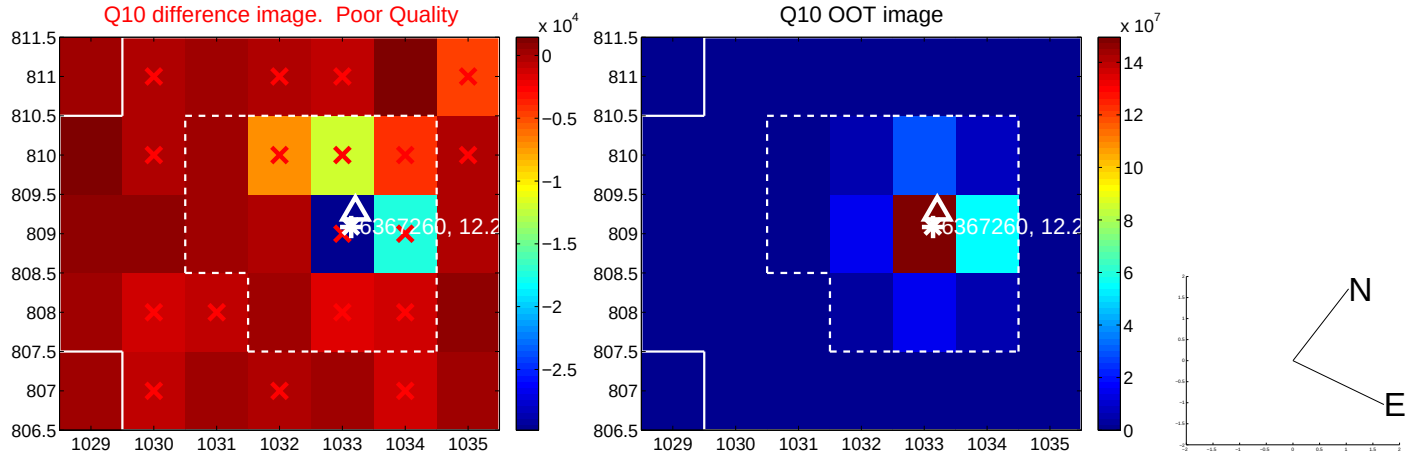


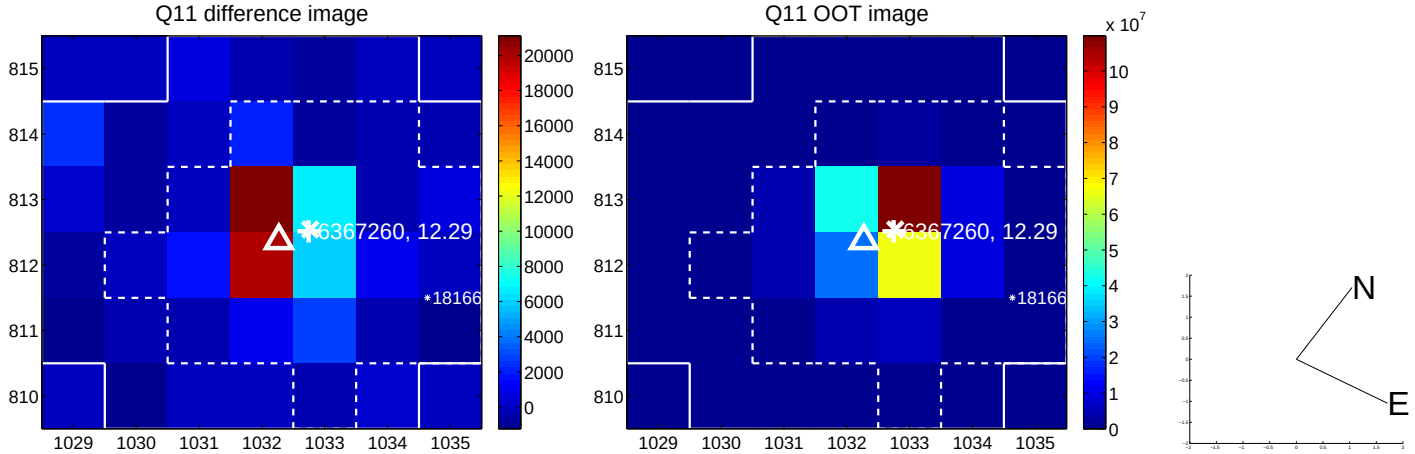


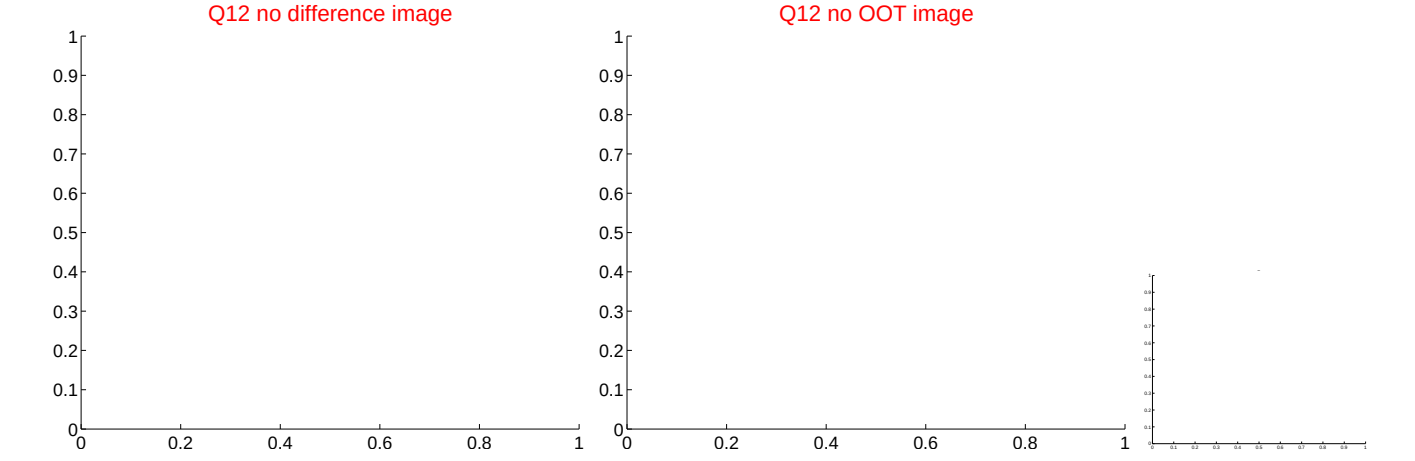


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

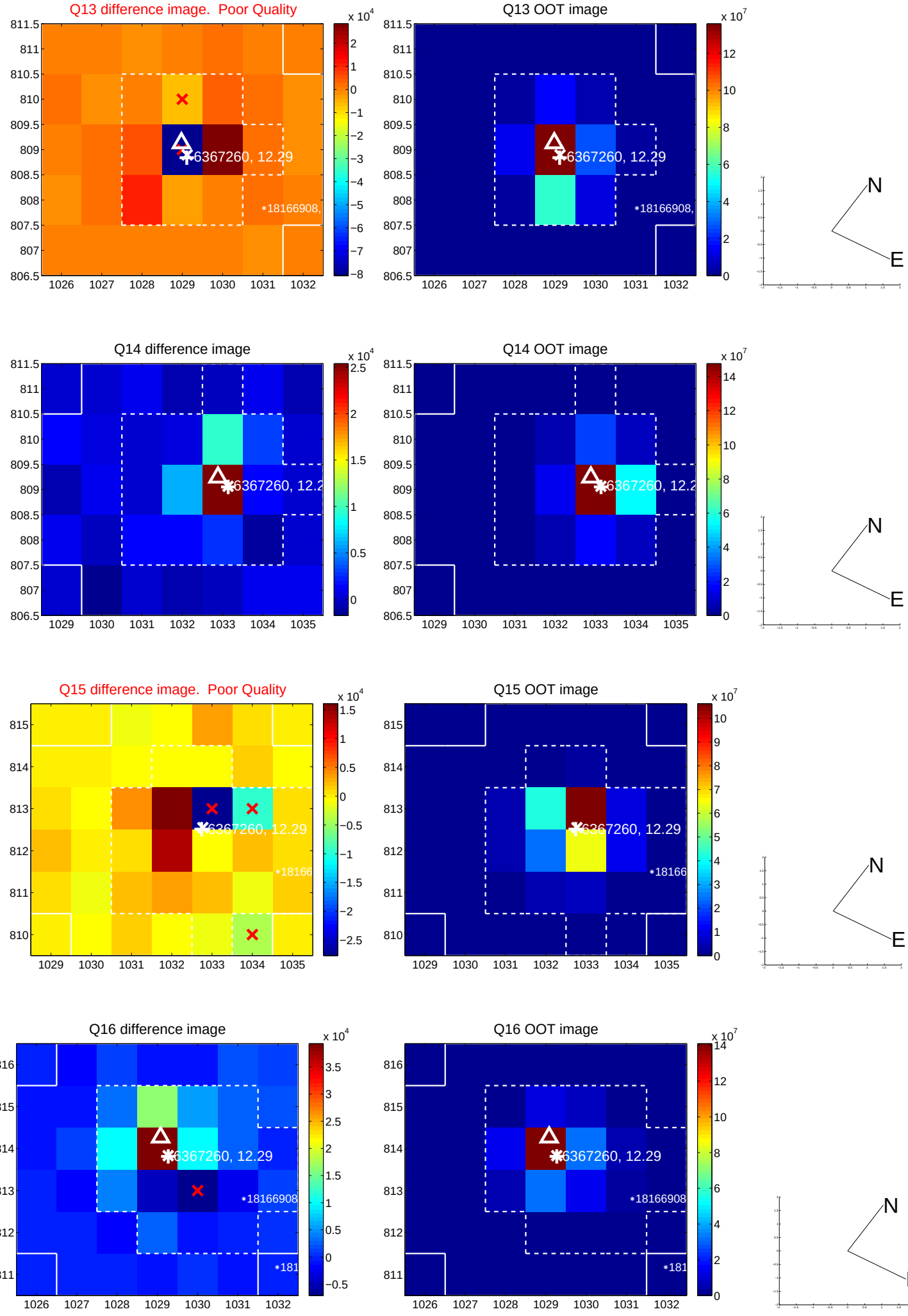




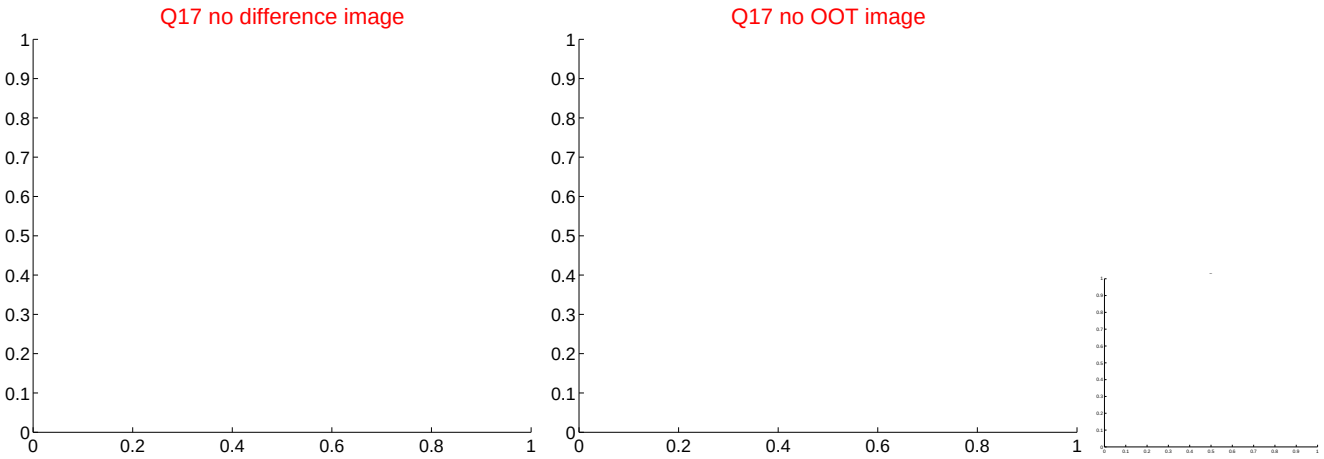


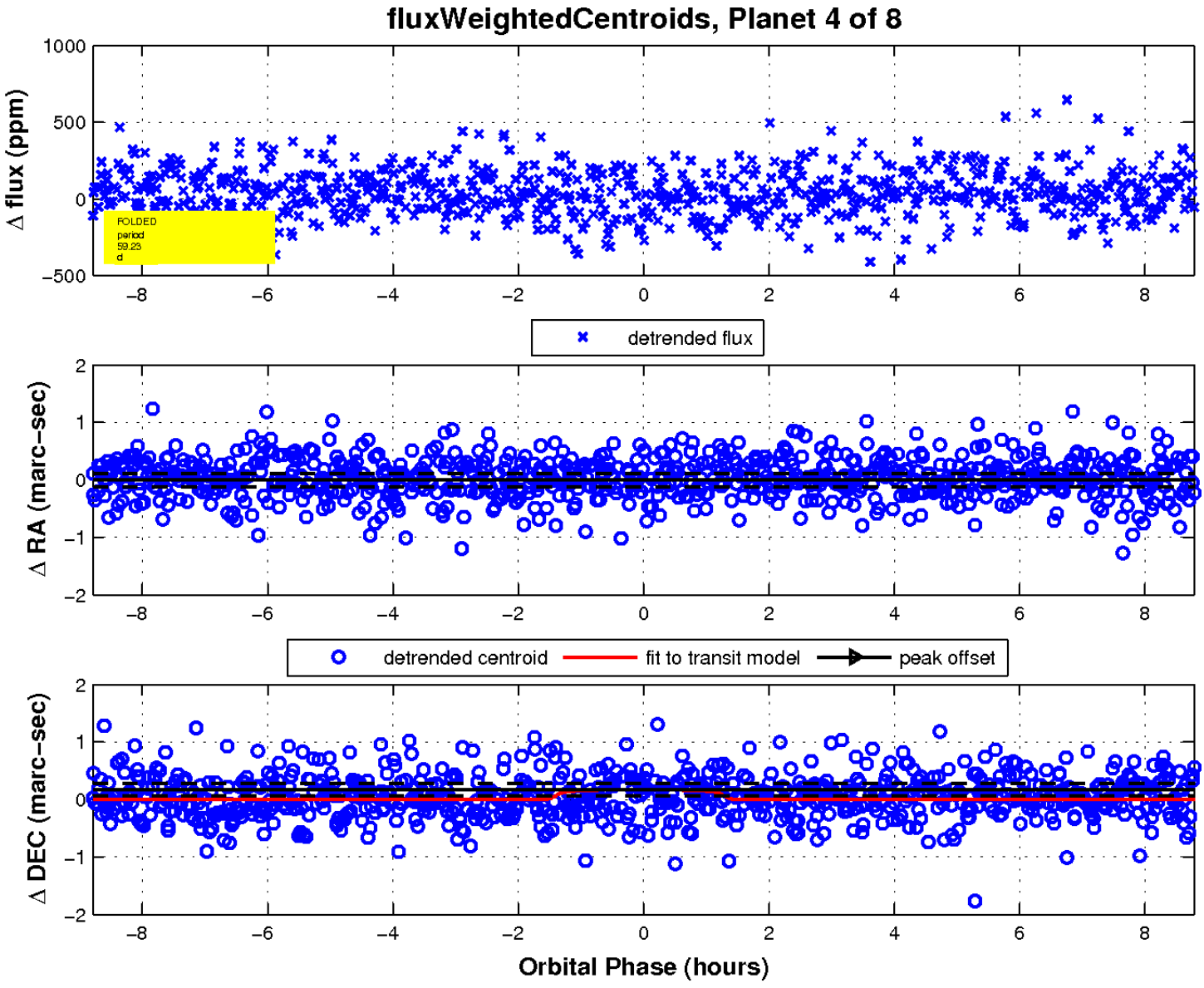


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

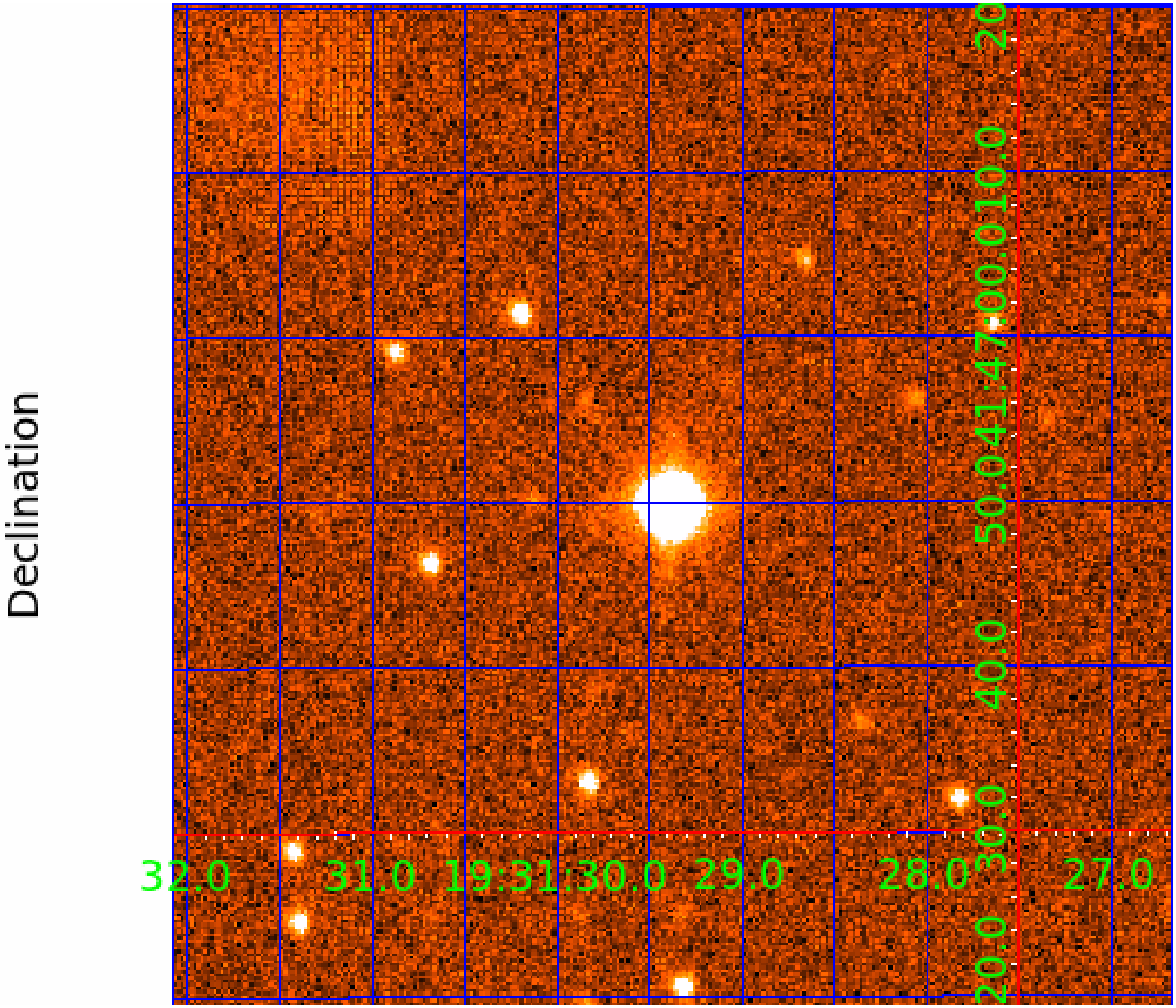


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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10.0
20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

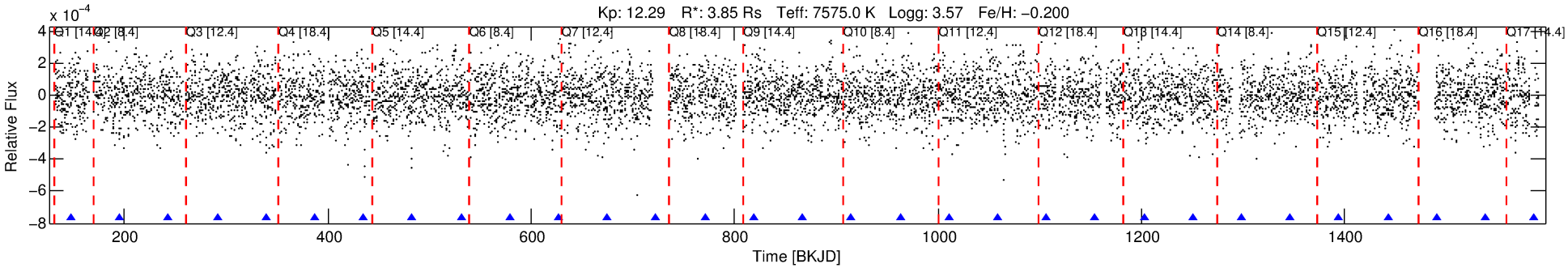
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

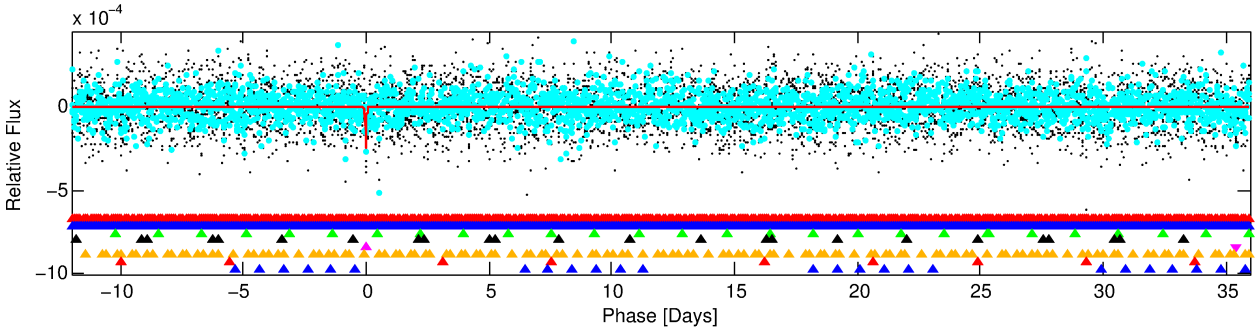
Ephemeris Match Information For 006367260-05

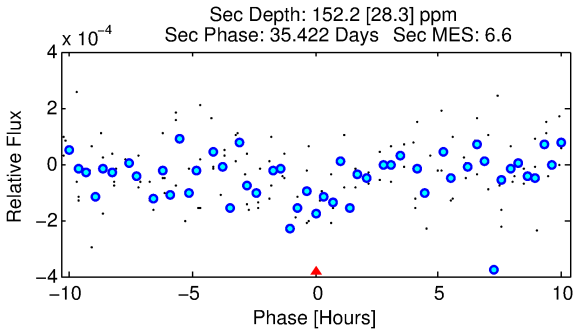
No Significant Match Found

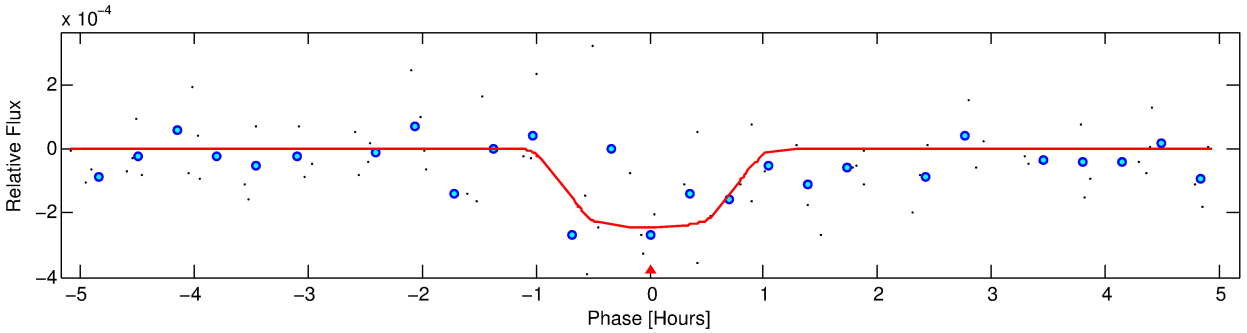
DV One-Page Summary

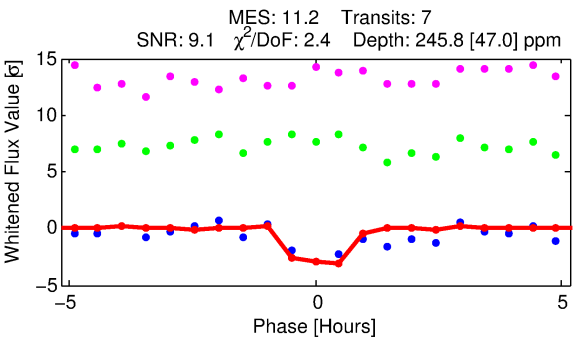
KIC: 6367260 Candidate: 5 of 8 Period: 47.958 d

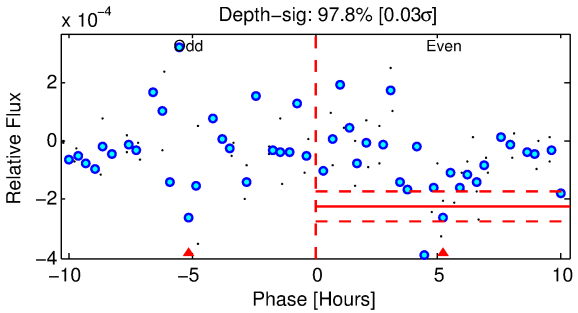


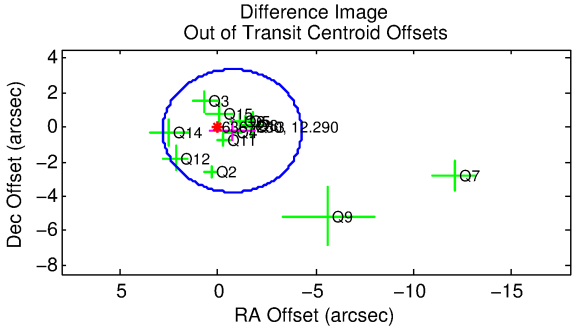












DV Fit Results:

Period = 47.95780 [0.00057] d
Epoch = 147.4713 [0.0102] BKJD
Rp/R* = 0.0170 [0.0146]
a/R* = 99.68 [461.66]
b = 0.90 [0.99]

Seff = 411.32 [391.68]
Teq = 1148 [273] K
Rp = 7.12 [7.35] Re
a = 0.3260 [0.1870] AU

Ag = 175.47 [345.12] [0.51σ]
Teffp = 6462 [2806] K [1.88σ]

DV Diagnostic Results:

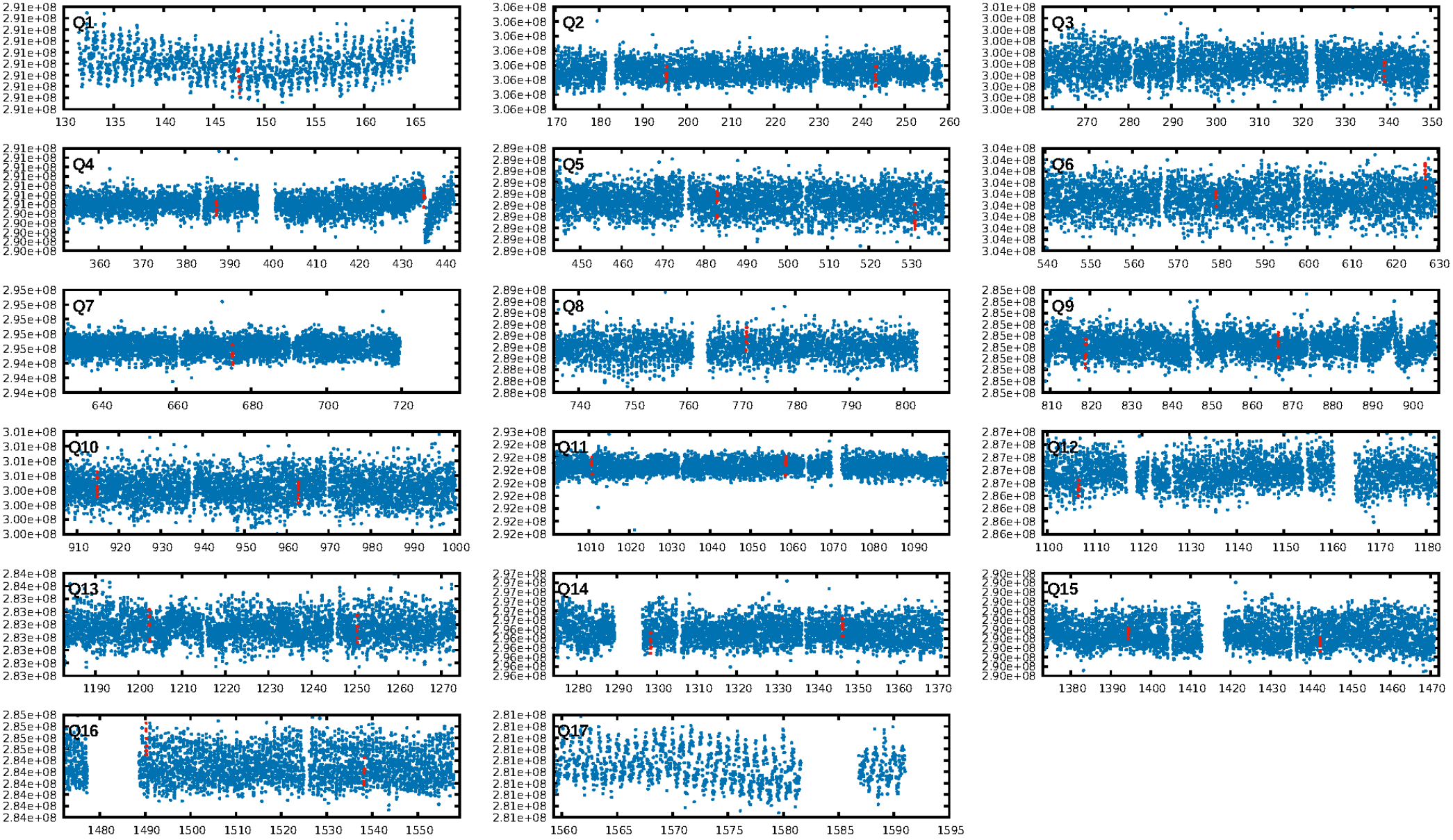
ShortPeriod−sig: 100.0% [11.94σ]
LongPeriod−sig: 100.0% [79.45σ]
ModelChiSquare2−sig: 0.0%
ModelChiSquareGof−sig: 65.3%
Bootstrap−pfa: 5.27e−10
RollingBand−fgt: 1.00 [7/7]
GhostDiagnostic−chr: −1.022

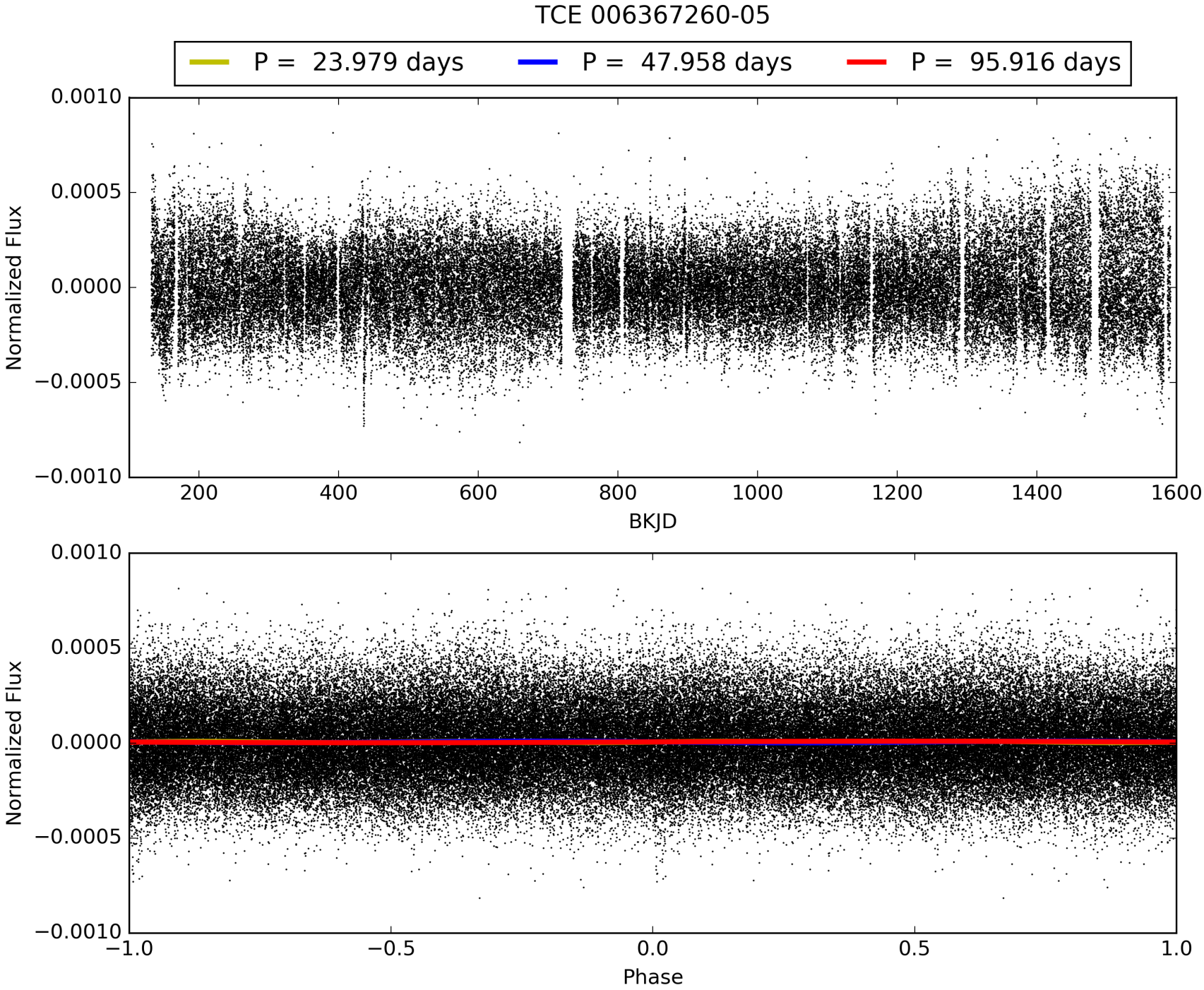
Centroid−sig: 26.9%
Centroid−so: 0.584 arcsec [1.20σ]
OotOffset−rm: 0.763 arcsec [0.64σ]
KicOffset−rm: 0.802 arcsec [0.83σ]
OotOffset−st: 3/4/3/3 [13]
KicOffset−st: 3/4/3/3 [13]
DiffImageQuality−fgm: 0.54 [7/13]
DiffImageOverlap−fno: 0.00 [0/16]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:06:04 Z

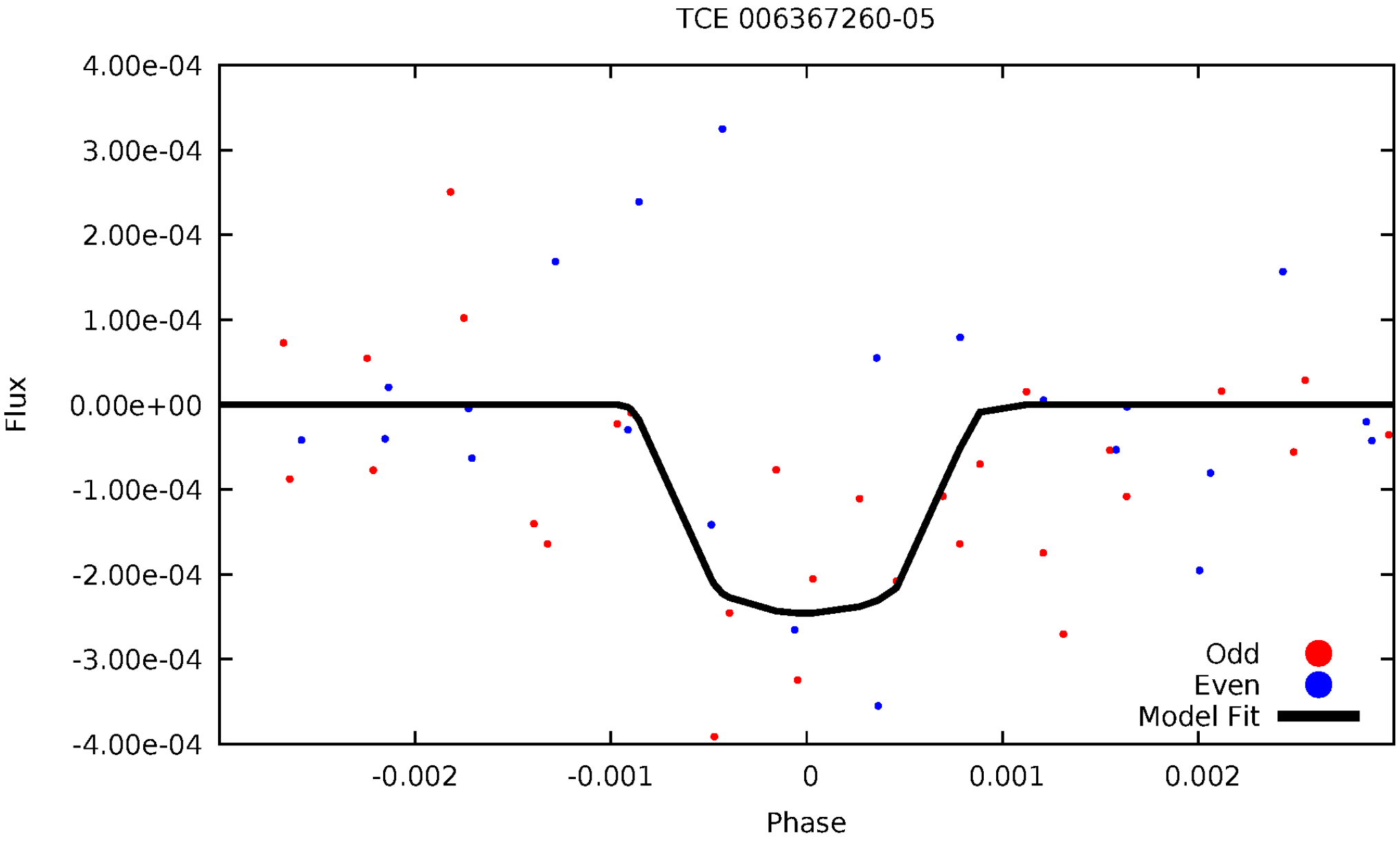
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006367260-05, PDC Light Curves

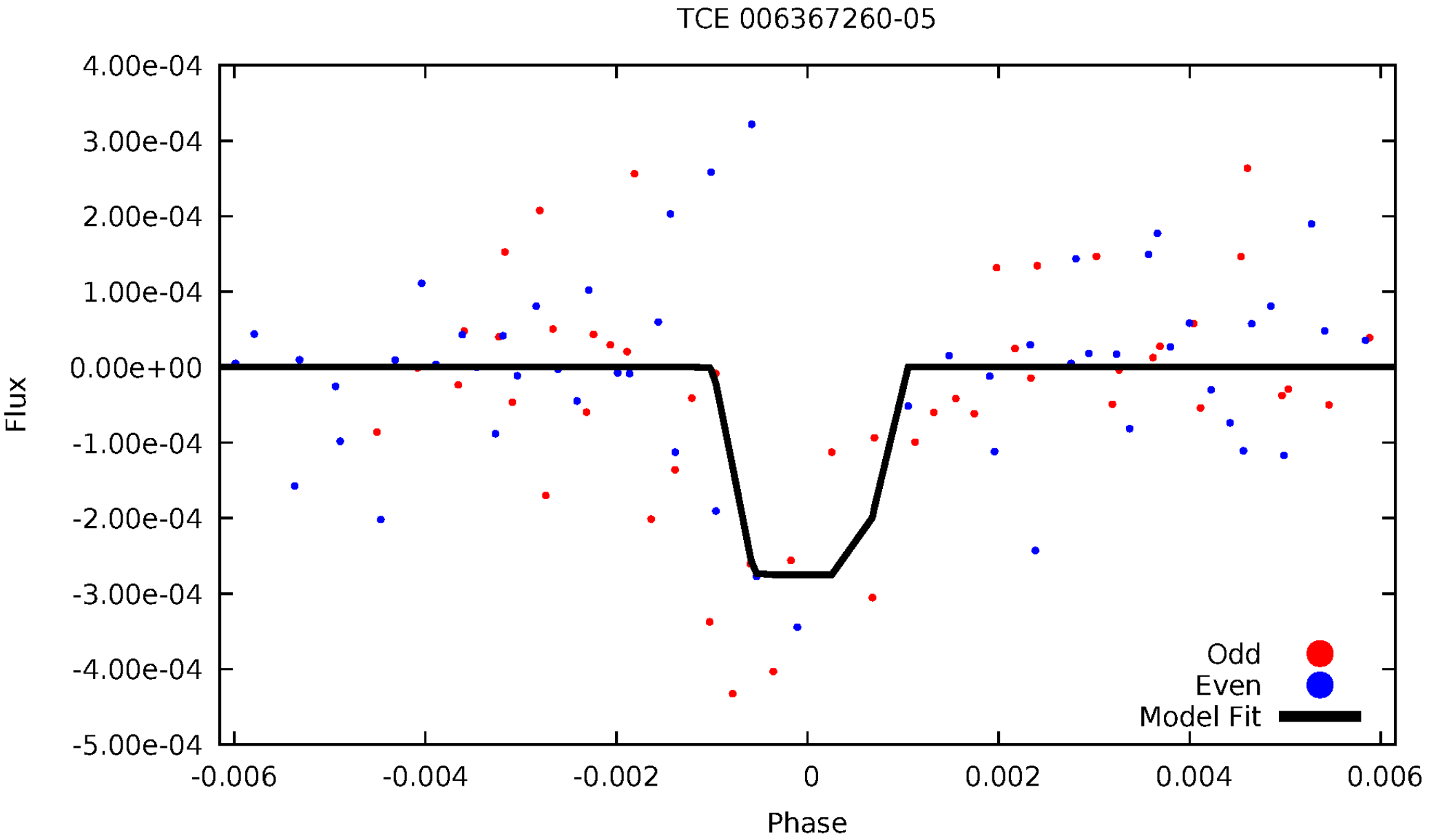



TCE 006367260-05
P = 23.979 days
P = 47.958 days
P = 95.916 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

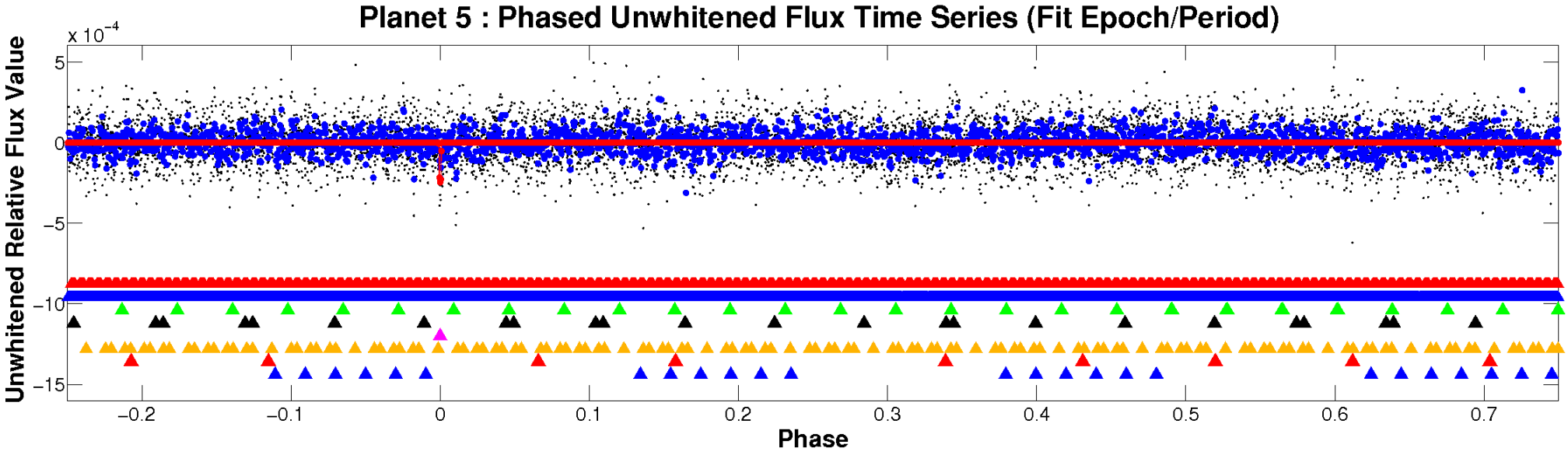
DV Odd/Even

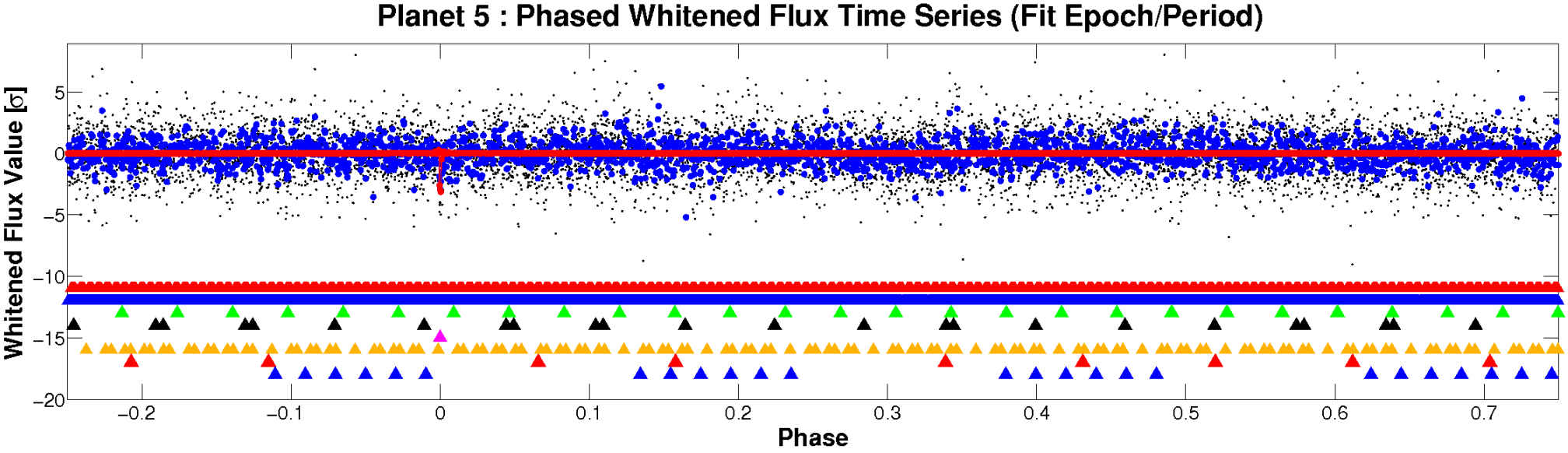

TCE 006367260-05
4.00e-04
3.00e-04
2.00e-04
1.00e-04
0.00e+00
-1.00e-04
-2.00e-04
-3.00e-04
-4.00e-04
Flux
-0.002
-0.001
0
0.001
0.002
Phase
Odd
Even
Model Fit

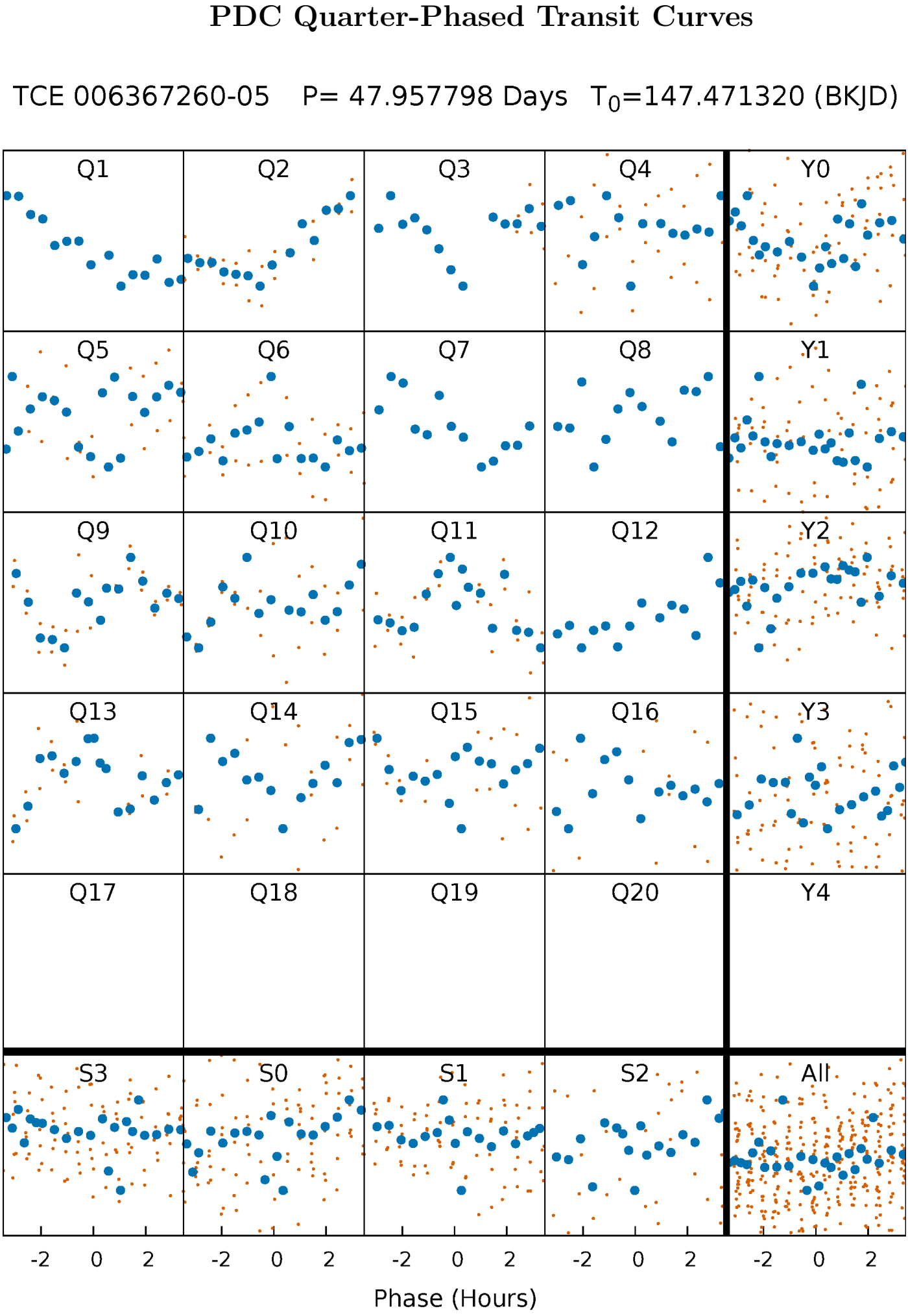
ALT Odd/Even


TCE 006367260-05
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

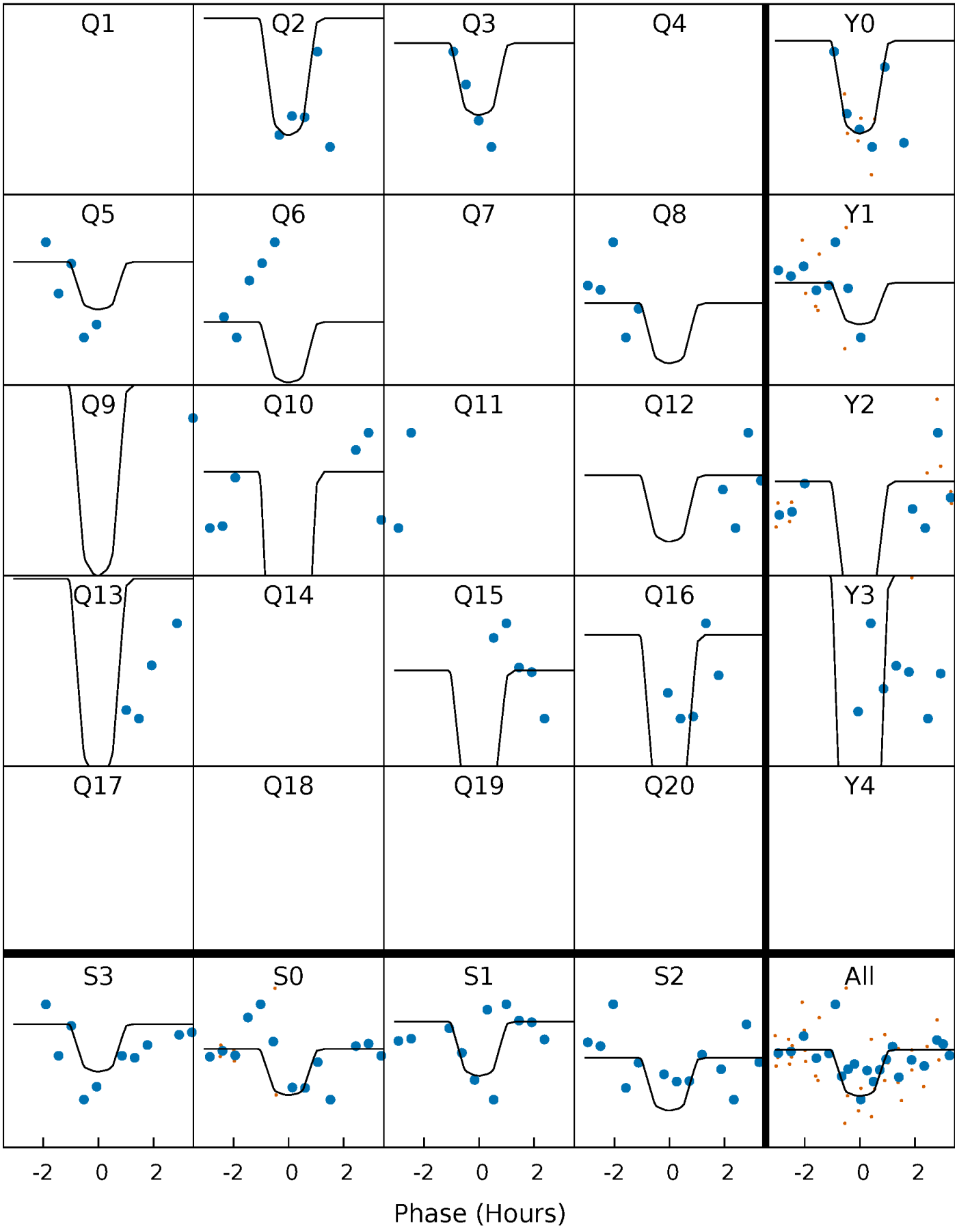





PDC Quarter-Phased Transit Curves
TCE 006367260-05 P= 47.957798 Days T0=147.471320 (BKJD)
Q1
Q2
Q3
Q4
Y0
Q5
Q6
Q7
Q8
Y1
Q9
Q10
Q11
Q12
Y2
Q13
Q14
Q15
Q16
Y3
Q17
Q18
Q19
Q20
Y4
S3
S0
S1
S2
All
-2
0
2
Phase (Hours)

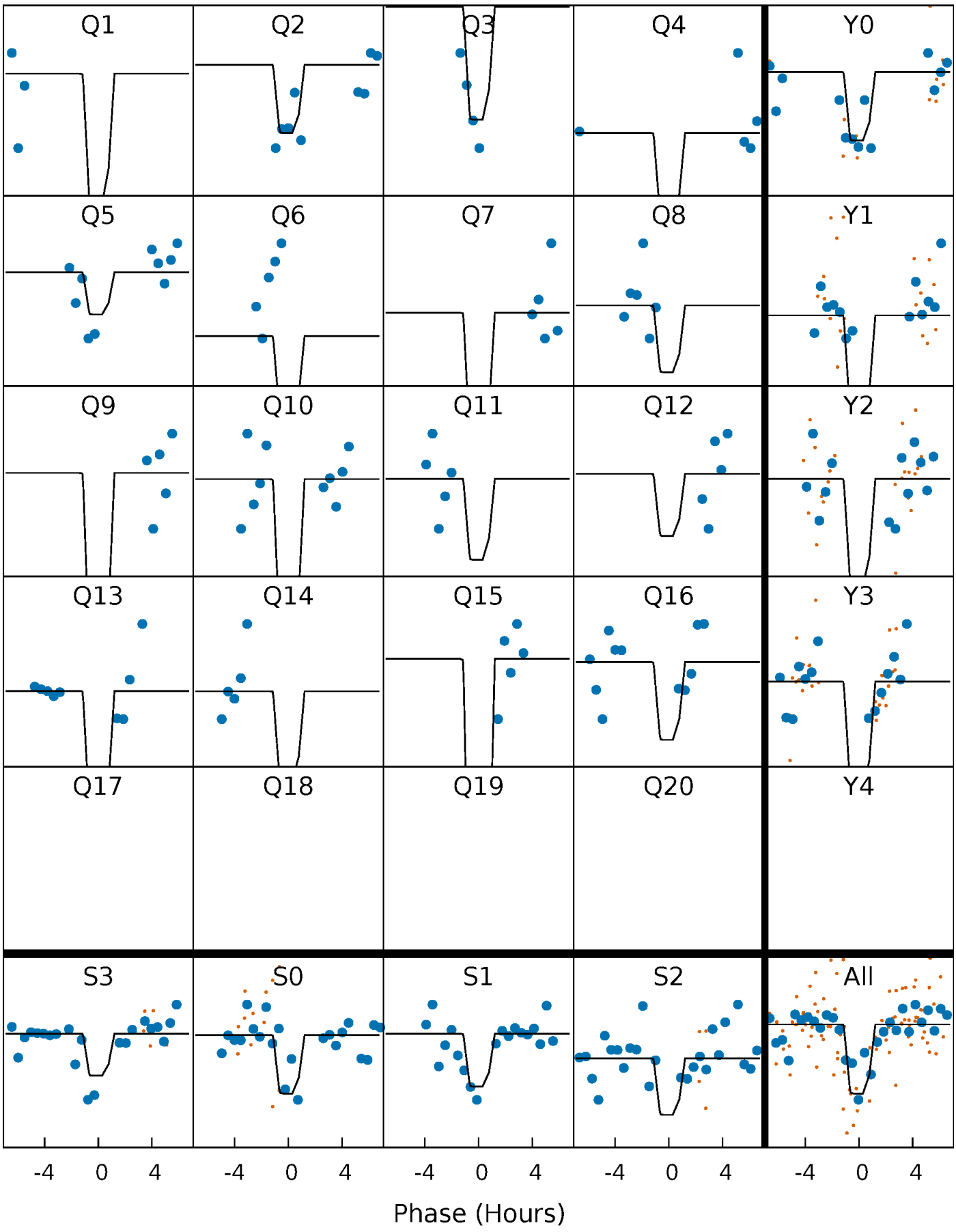
DV Quarter-Phased Transit Curves

TCE 006367260-05 P= 47.957798 Days T_0=147.471320 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

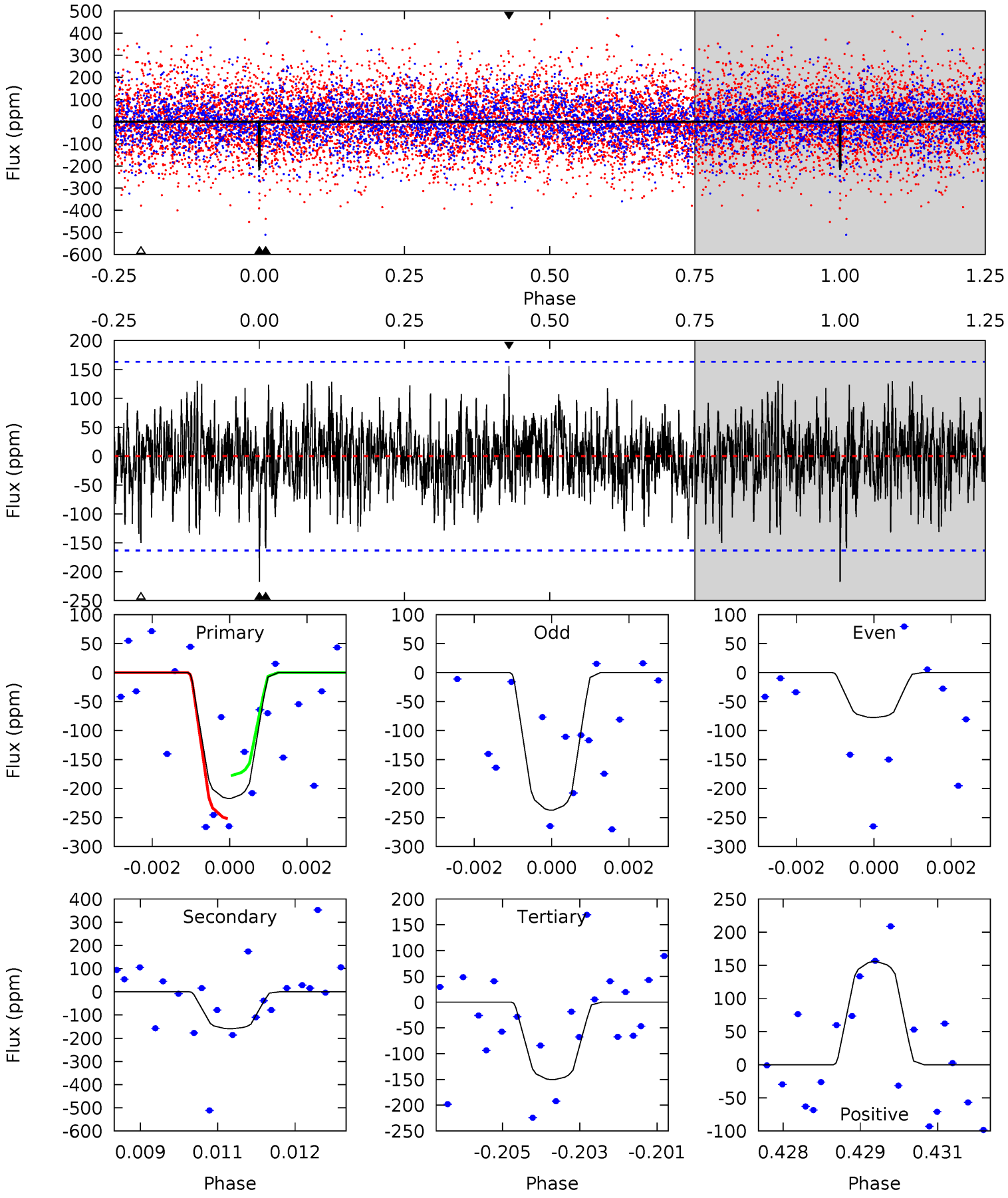
TCE 006367260-05 P= 47.955251 Days T_0=147.504125 (BKJD)



DV Model-Shift Uniqueness Test

006367260-05, P = 47.957798 Days, E = 99.513522 Days

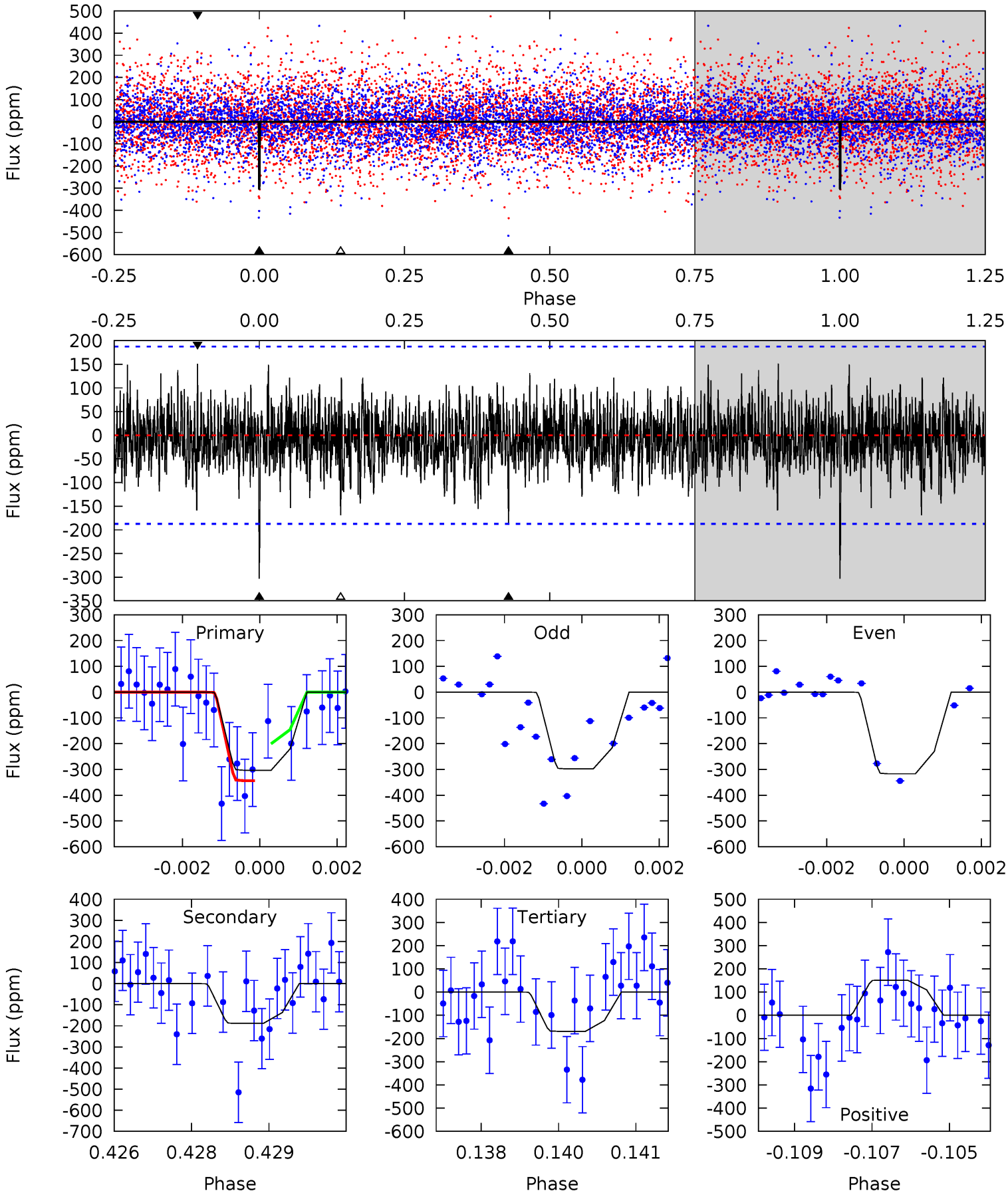
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.11	5.22	4.93	5.10	5.35	3.12	1.46	2.18	2.01	0.29	0.12	2.68	0.53	0.42	1.21



Alt Model-Shift Uniqueness Test

006367260-05, P = 47.955251 Days, E = 99.548874 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.66	5.38	4.83	4.31	5.35	3.13	1.32	3.83	4.34	0.55	1.06	0.26	0.63	0.33	1.57



Stellar Parameters For KIC 006367260

	$T_{eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-05 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-159±31	$6.63^{+5.54}_{-3.86}$	1520^{+130}_{-203}	6038^{+4461}_{-1331}	198^{+1088}_{-139}
Alt.	-188±35	$6.77^{+5.57}_{-4.26}$	1534^{+115}_{-221}	6245^{+4803}_{-1394}	238^{+1497}_{-166}

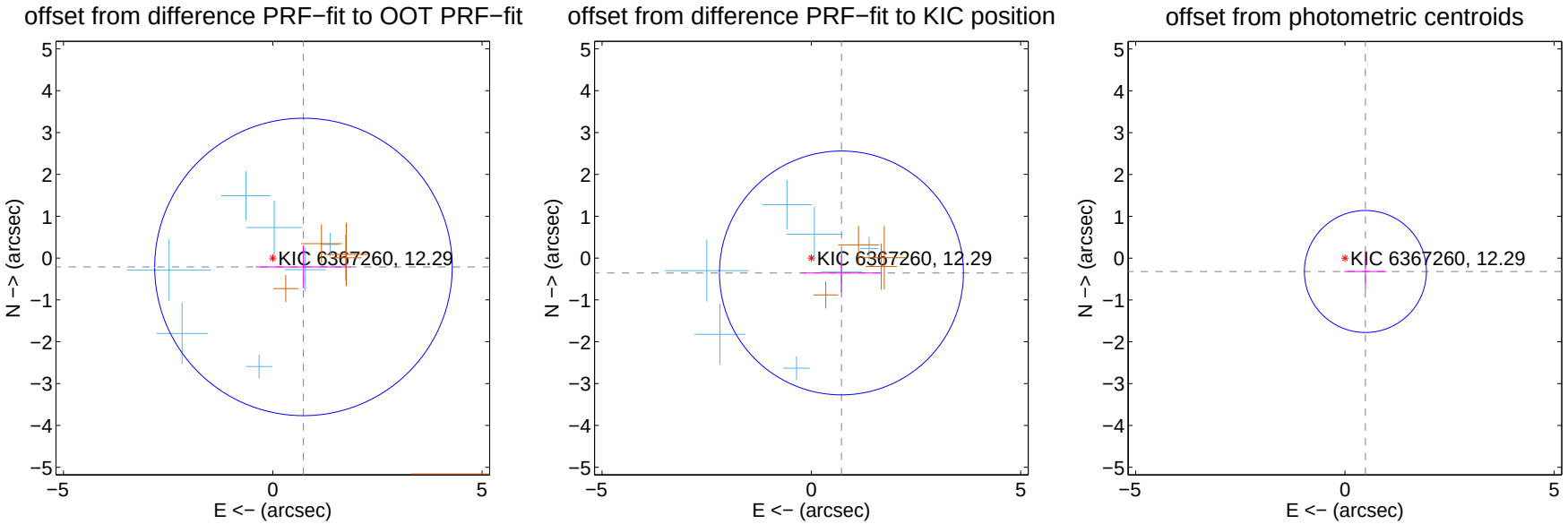
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

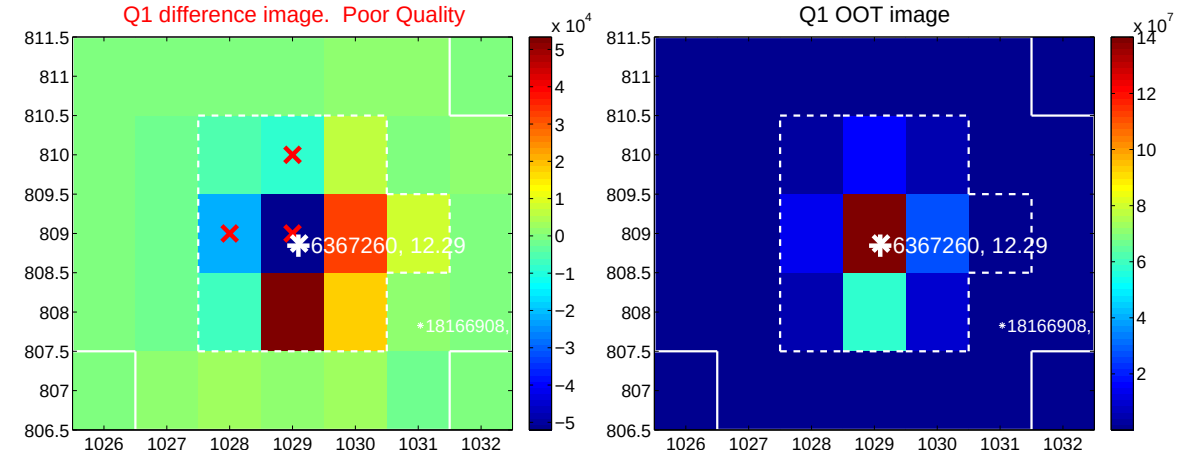
Supplemental centroid analysis for 006367260-05. Kepler magnitude: 12.29. Transit SNR 9.12
There are 7 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

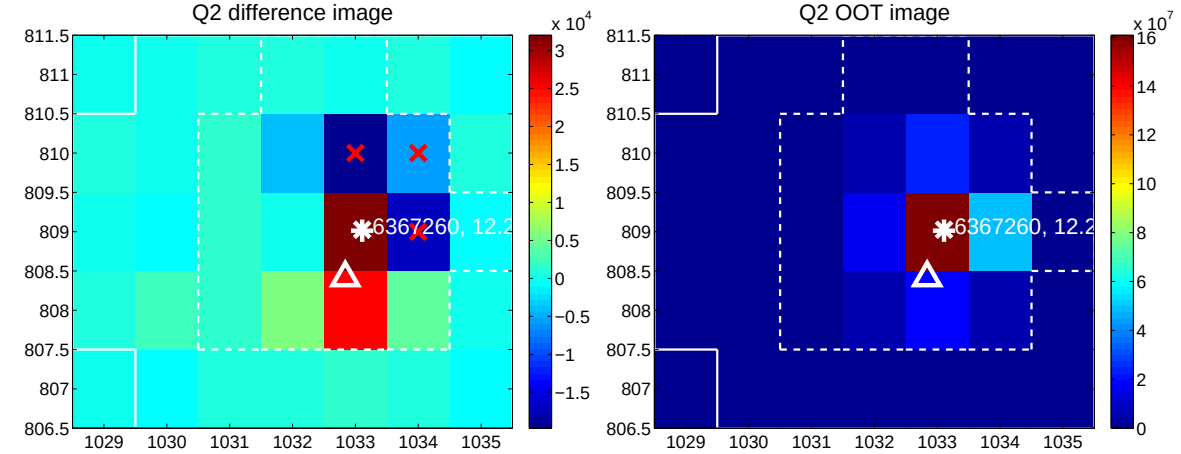
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.763 ± 1.185	0.64	-0.733 ± 1.139	-0.212 ± 0.512
PRF-fit source offset from KIC position	0.802 ± 0.971	0.83	-0.719 ± 0.957	-0.356 ± 0.449
photometric centroid source offset	0.58 ± 0.49	1.20	-0.49 ± 0.50	-0.32 ± 0.44

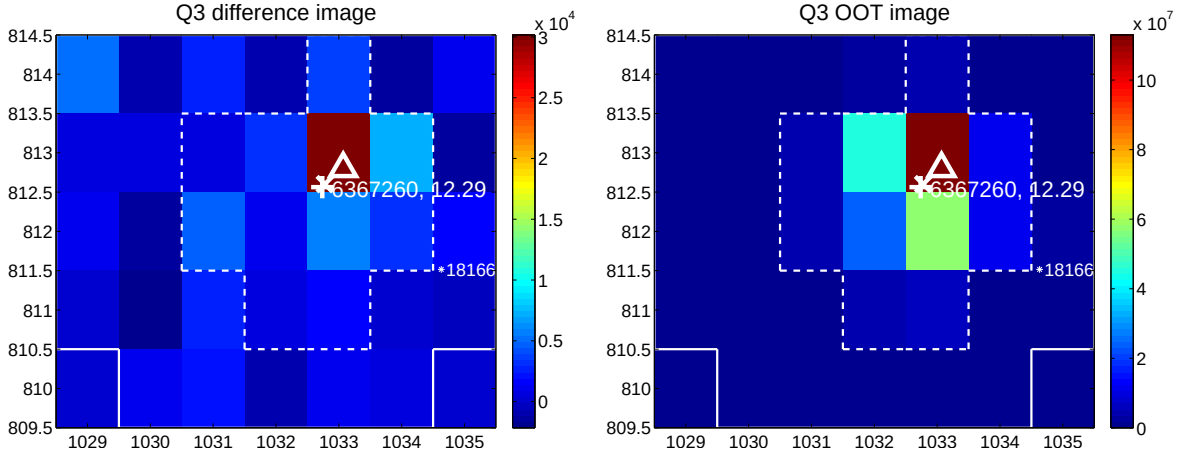


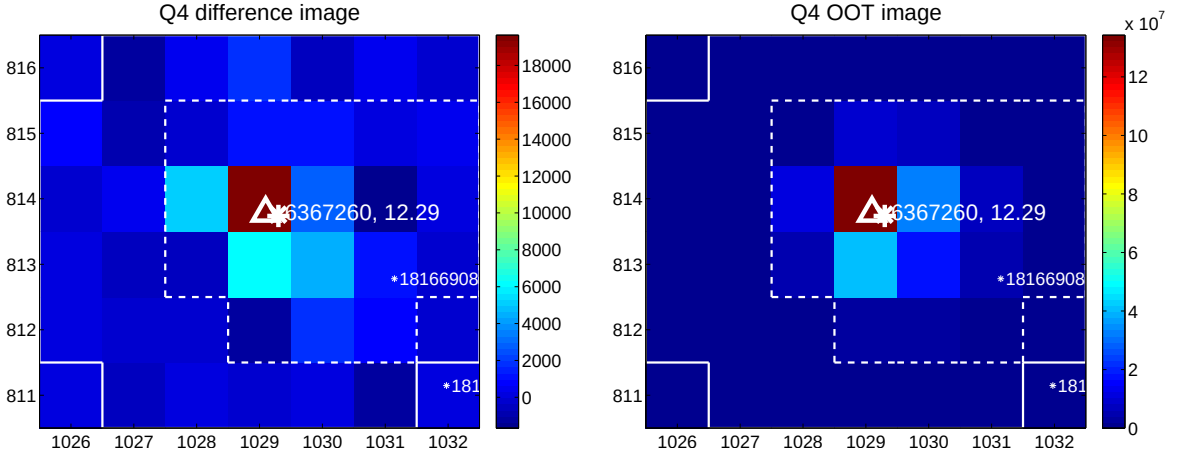
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

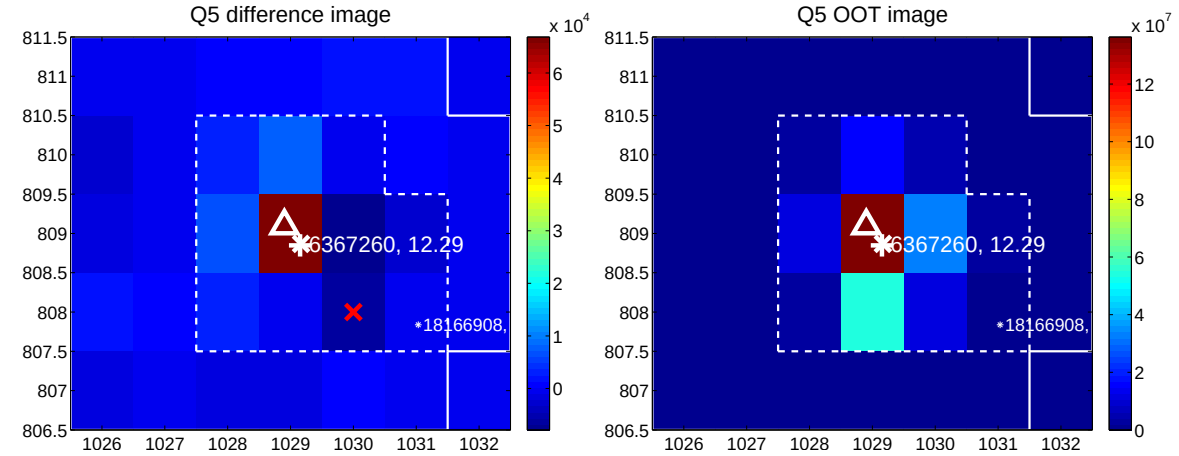


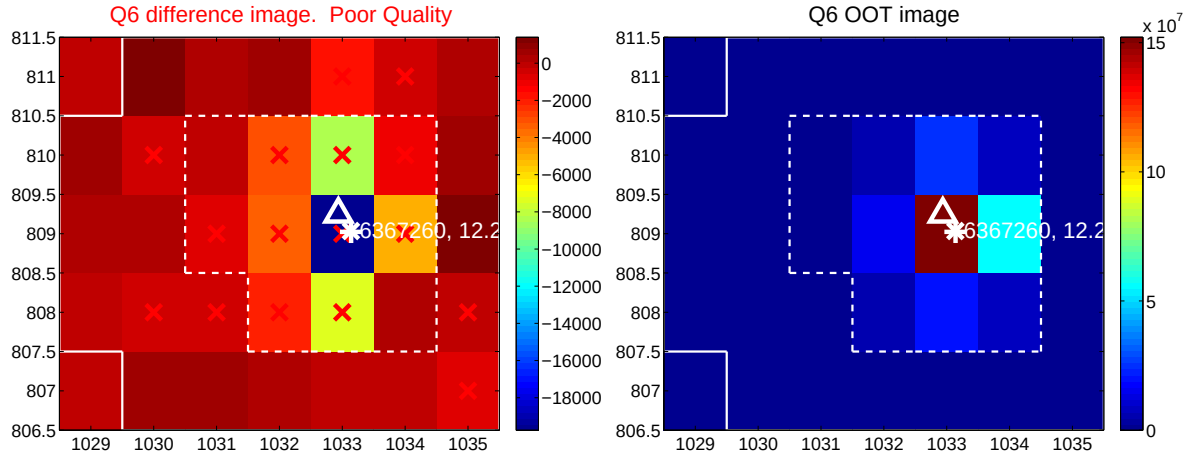


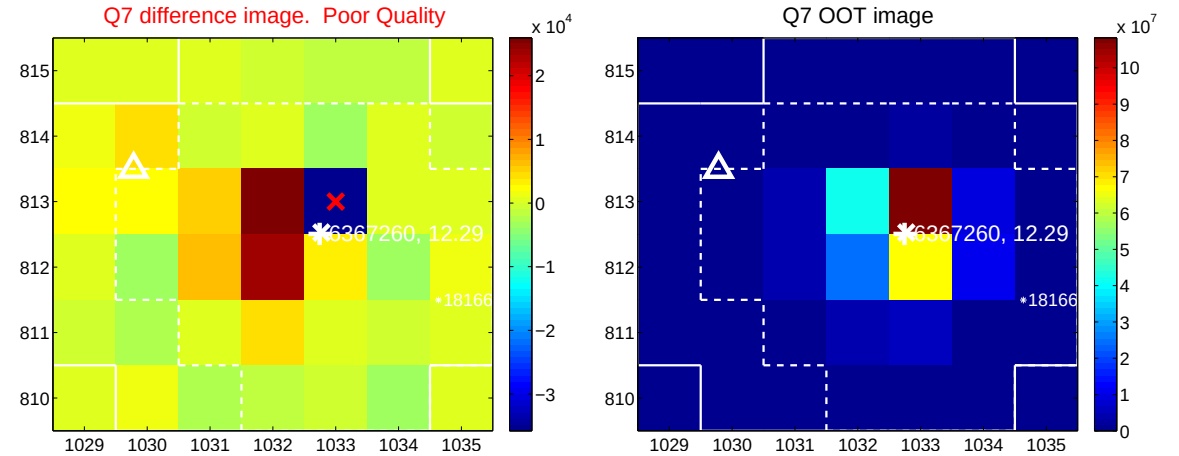


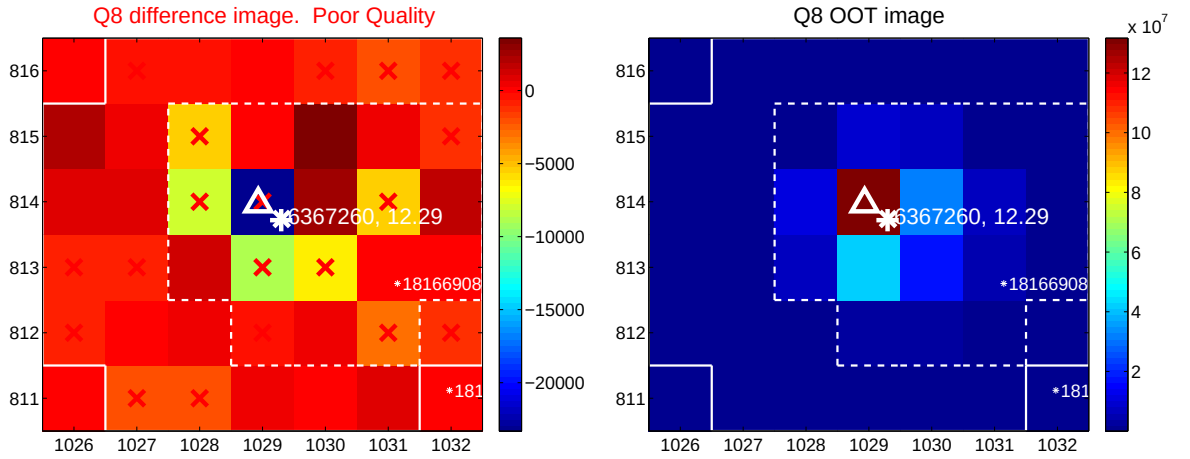


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

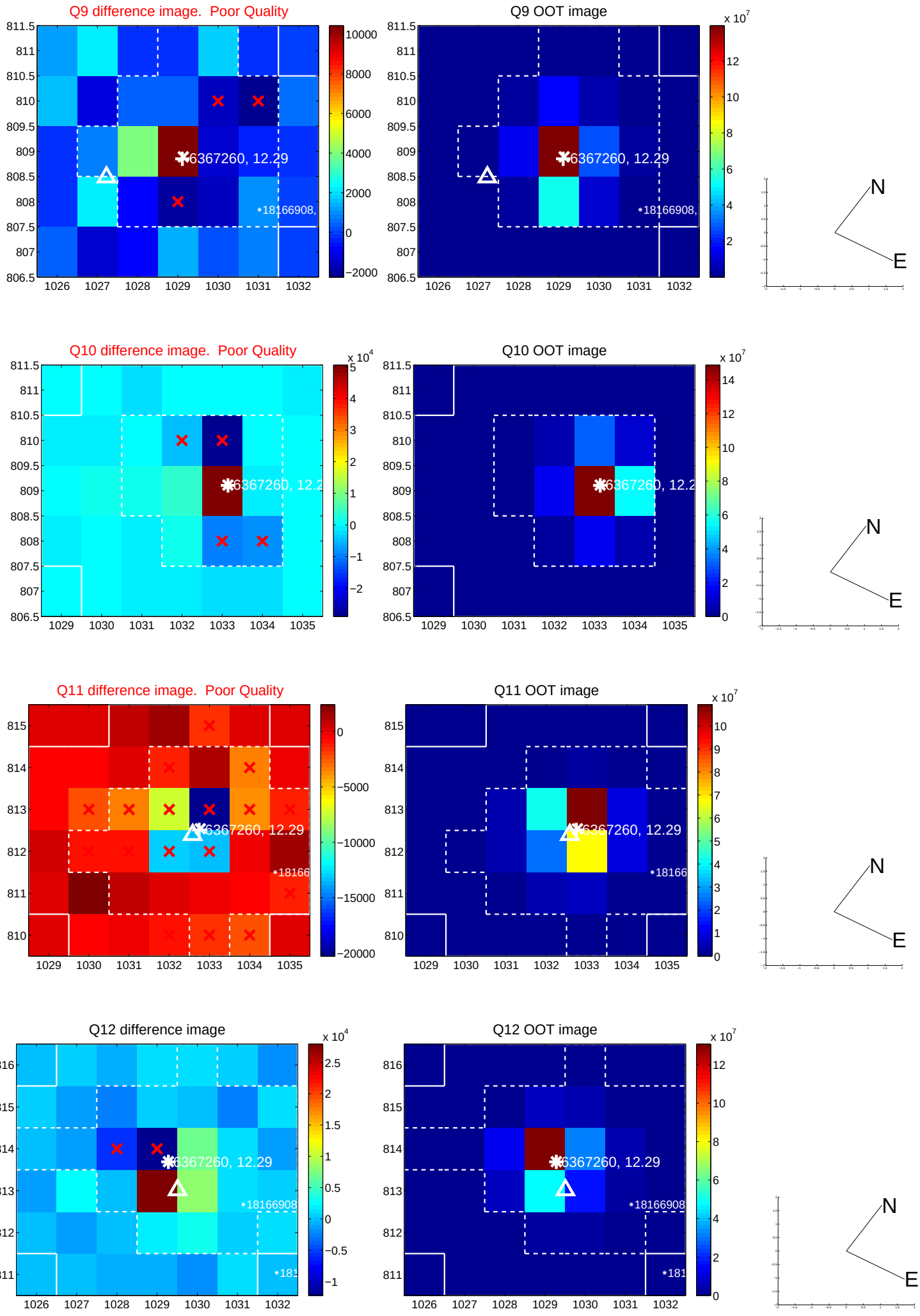




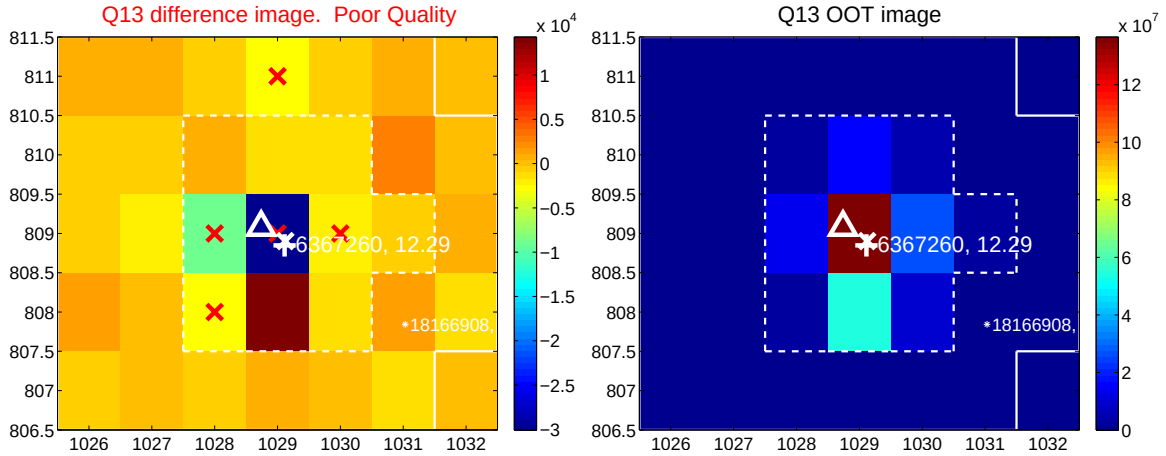


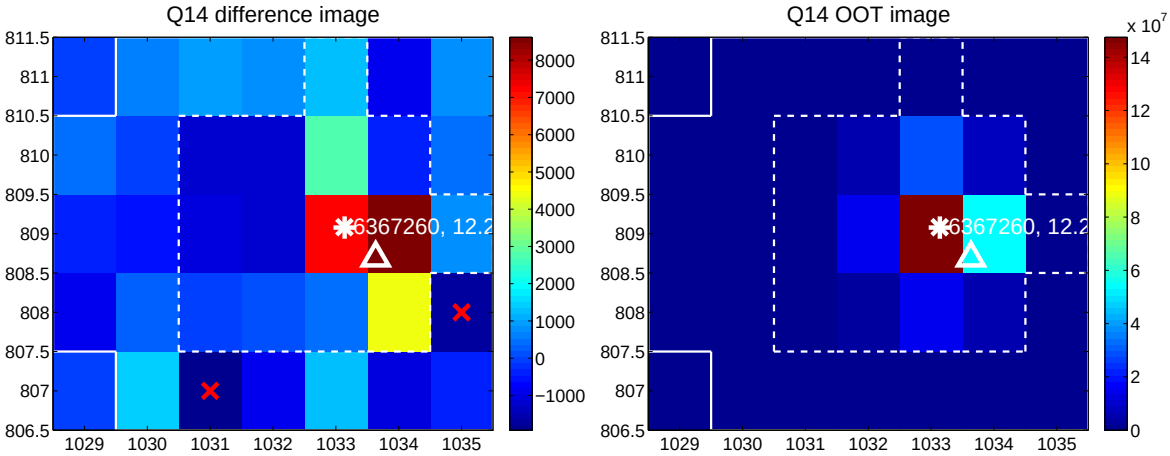


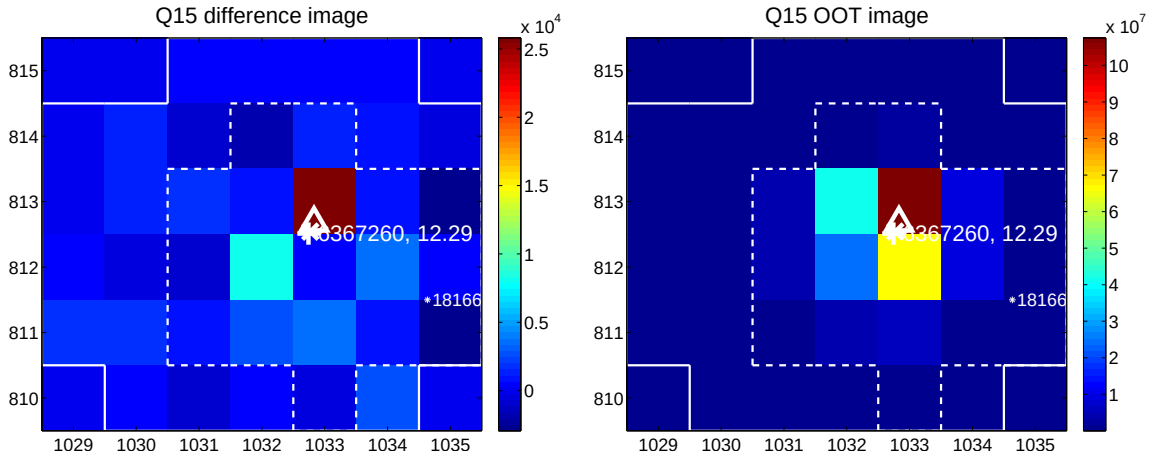
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

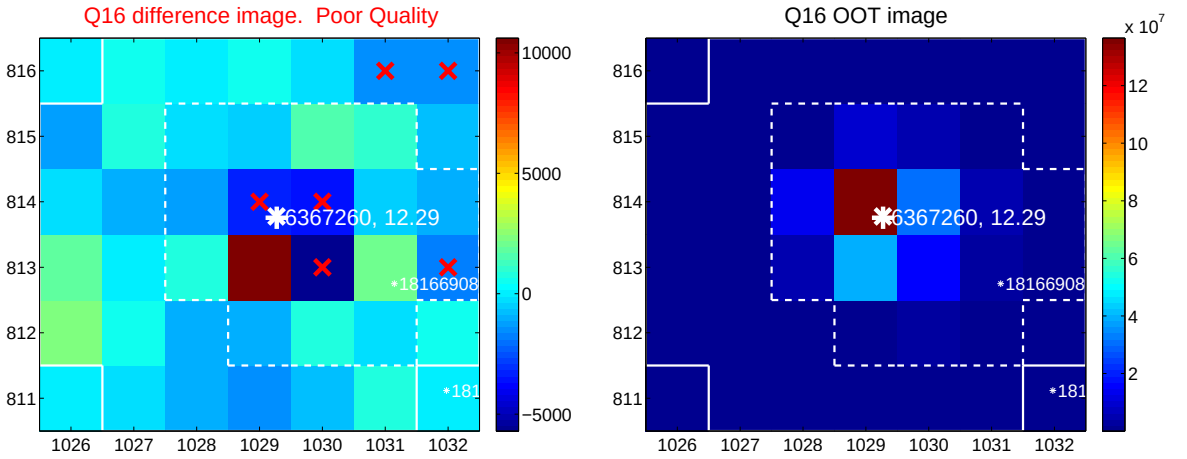


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

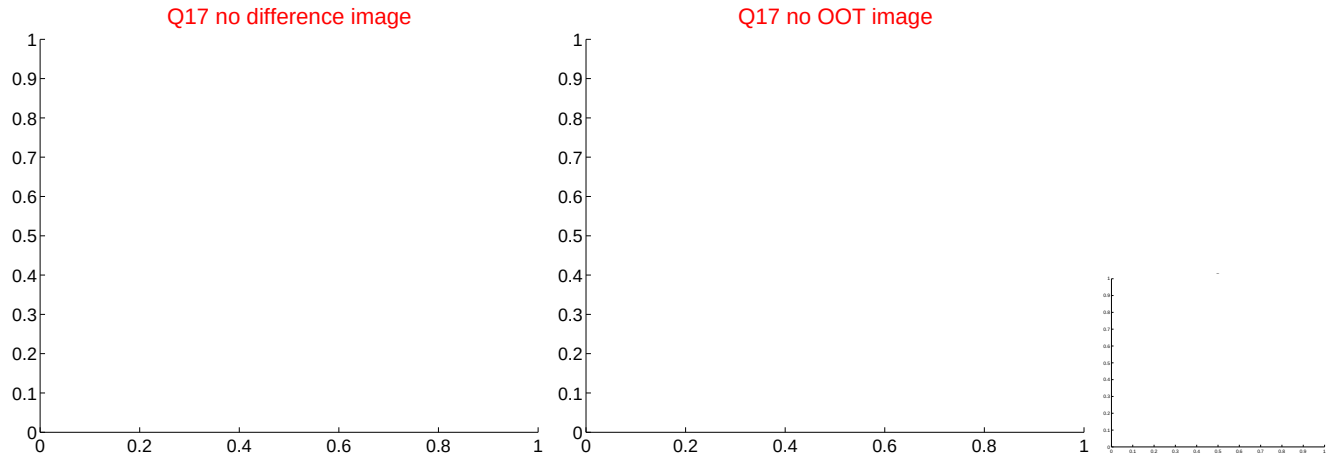


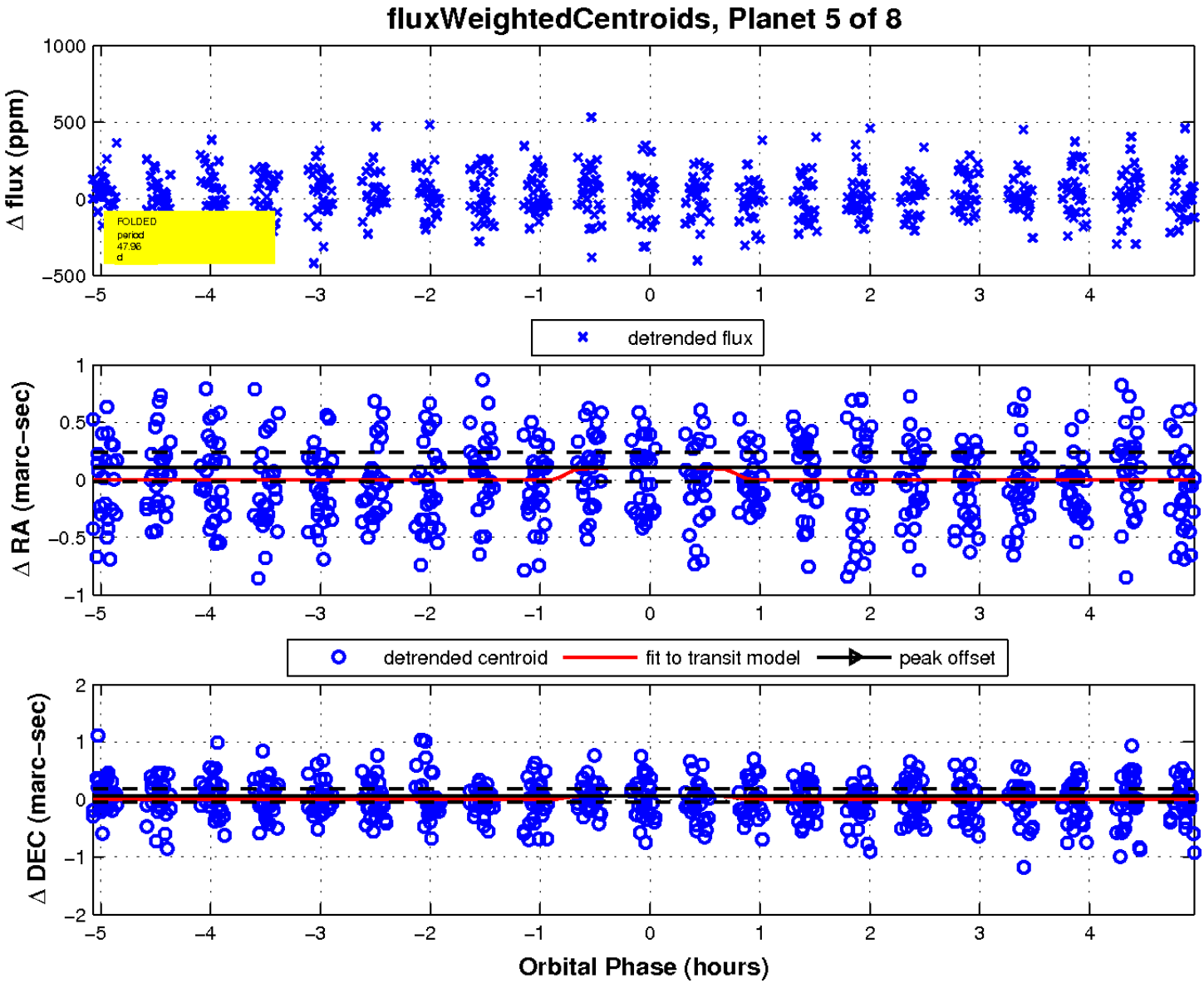




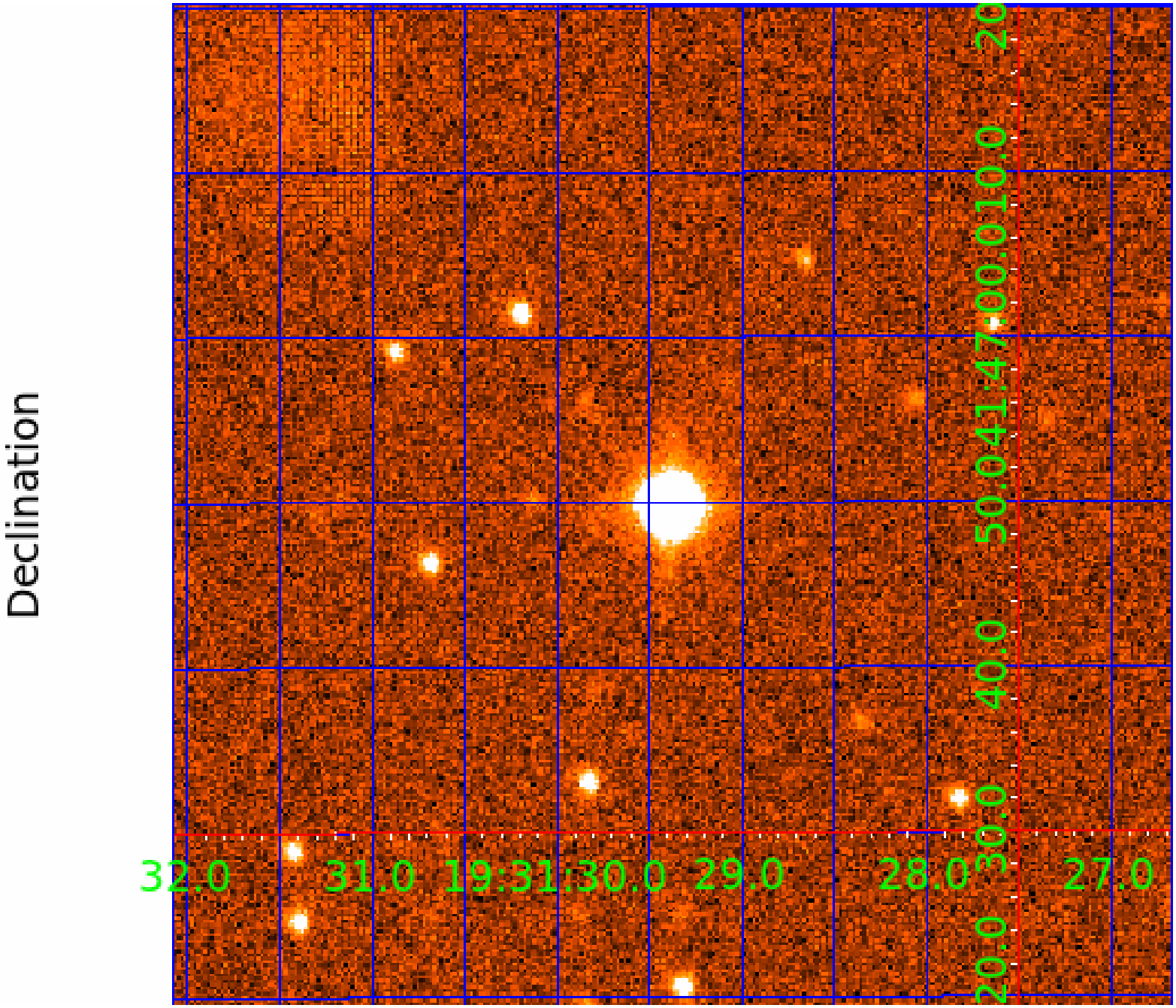


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

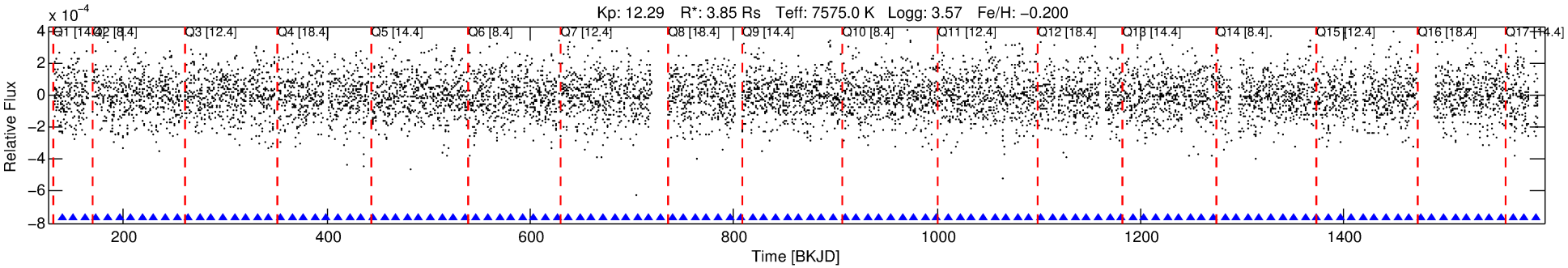
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

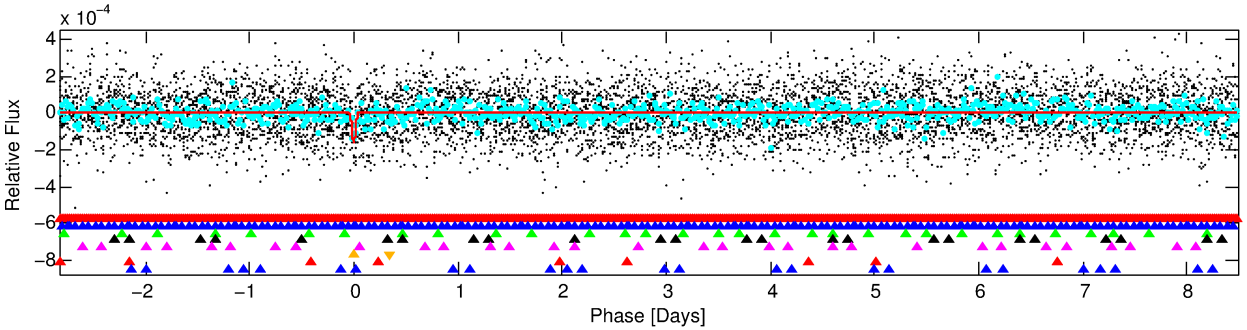
Ephemeris Match Information For 006367260-06

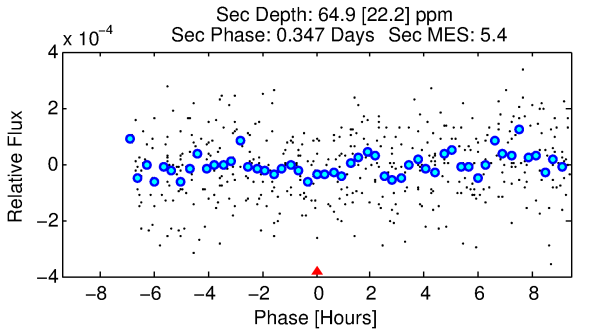
No Significant Match Found

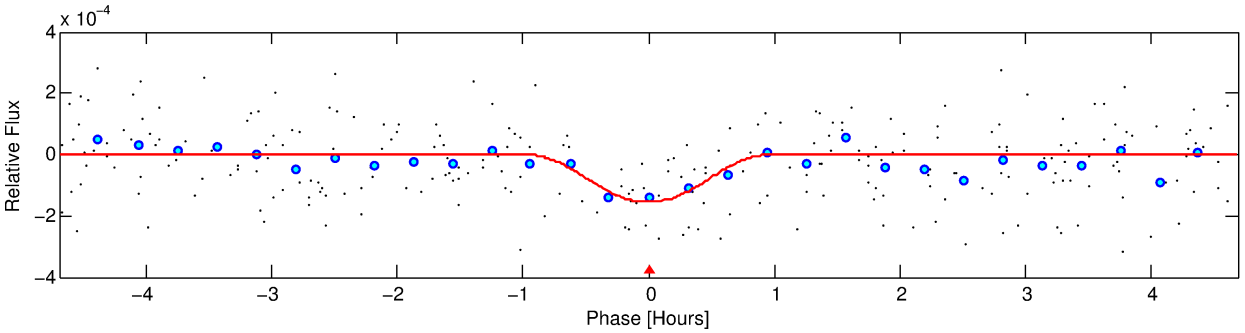
DV One-Page Summary

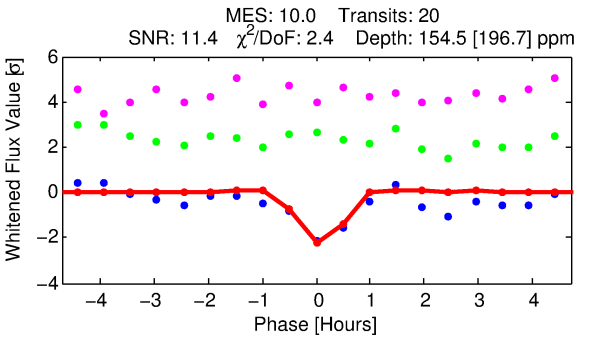
KIC: 6367260 Candidate: 6 of 8 Period: 11.321 d

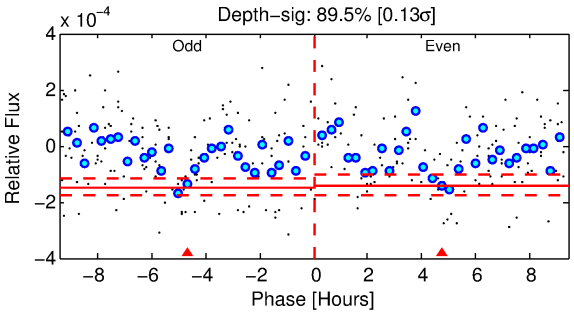


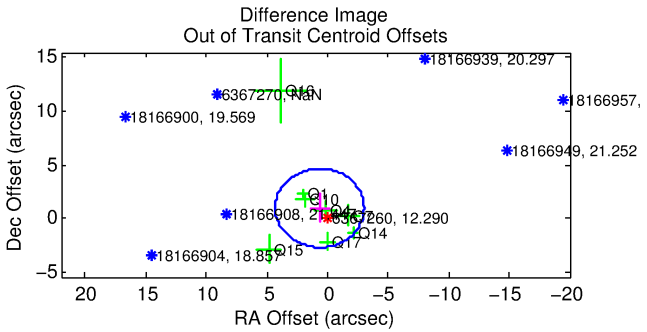












DV Fit Results:

Period = 11.32080 [0.00011] d
Epoch = 139.5710 [0.0072] BKJD
Rp/R* = 0.0183 [0.0820]
a/R* = 12.76 [25.28]
b = 0.99 [0.16]

Seff = 2819.38 [2684.77]
Teq = 1858 [442] K
Rp = 7.70 [34.71] Re
a = 0.1245 [0.0714] AU

Ag = 9.33 [83.97] [0.10σ]
Teffp = 5021 [11237] K [0.28σ]

DV Diagnostic Results:

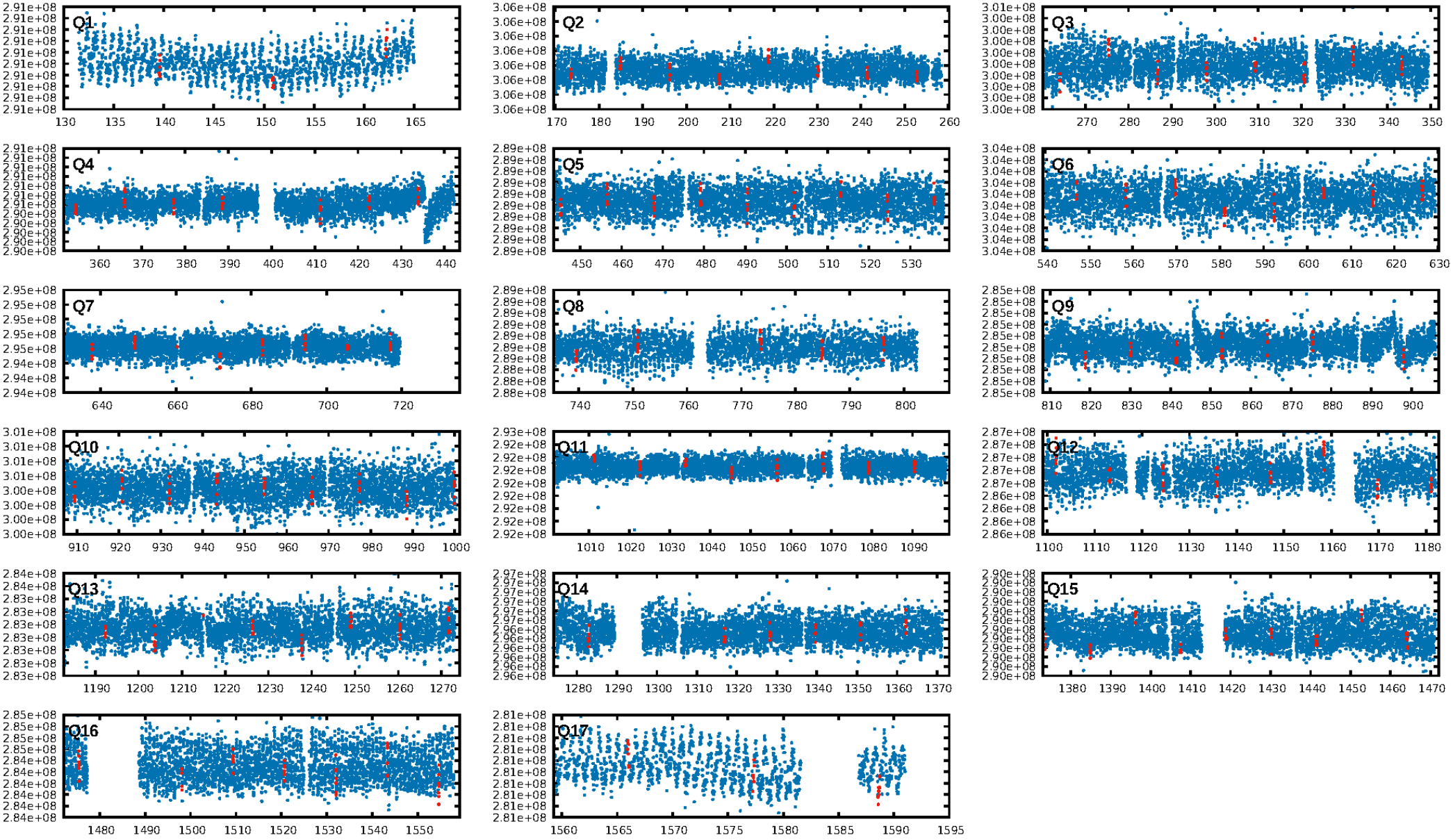
ShortPeriod−sig: 100.0% [116.07σ]
LongPeriod−sig: 100.0% [239.16σ]
ModelChiSquare2−sig: 61.2%
ModelChiSquareGof−sig: 60.4%
Bootstrap−pfa: 1.58e−08
RollingBand−fgt: 1.00 [18/18]
GhostDiagnostic−chr: 3.086

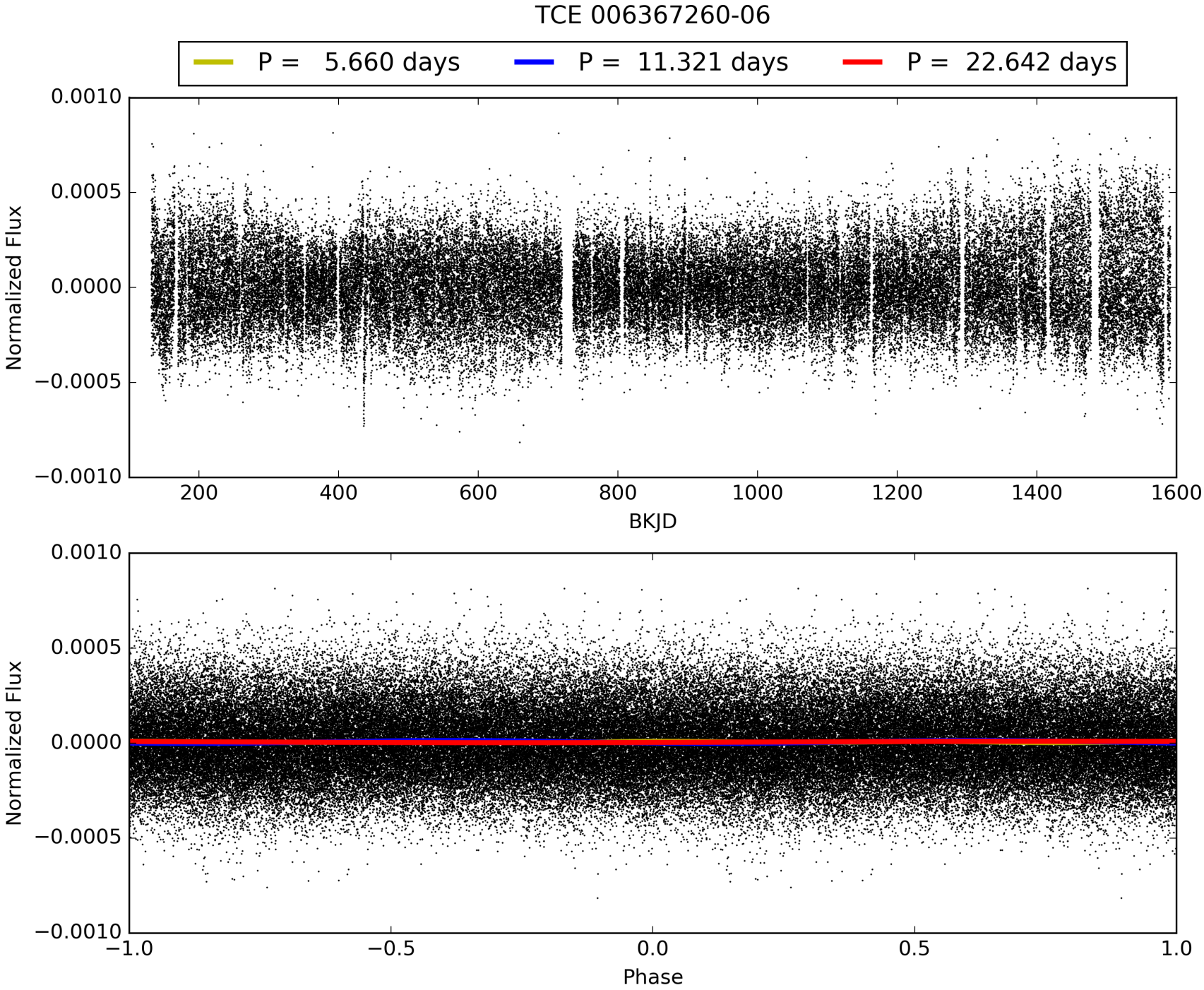
Centroid−sig: 27.4%
Centroid−so: 0.493 arcsec [1.08σ]
OotOffset−rm: 1.150 arcsec [0.94σ]
KicOffset−rm: 1.089 arcsec [0.84σ]
OotOffset−st: 2/2/2/2 [8]
KicOffset−st: 2/2/2/2 [8]
DiffImageQuality−fgm: 0.50 [4/8]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:06:07 Z

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

TCE 006367260-06, PDC Light Curves

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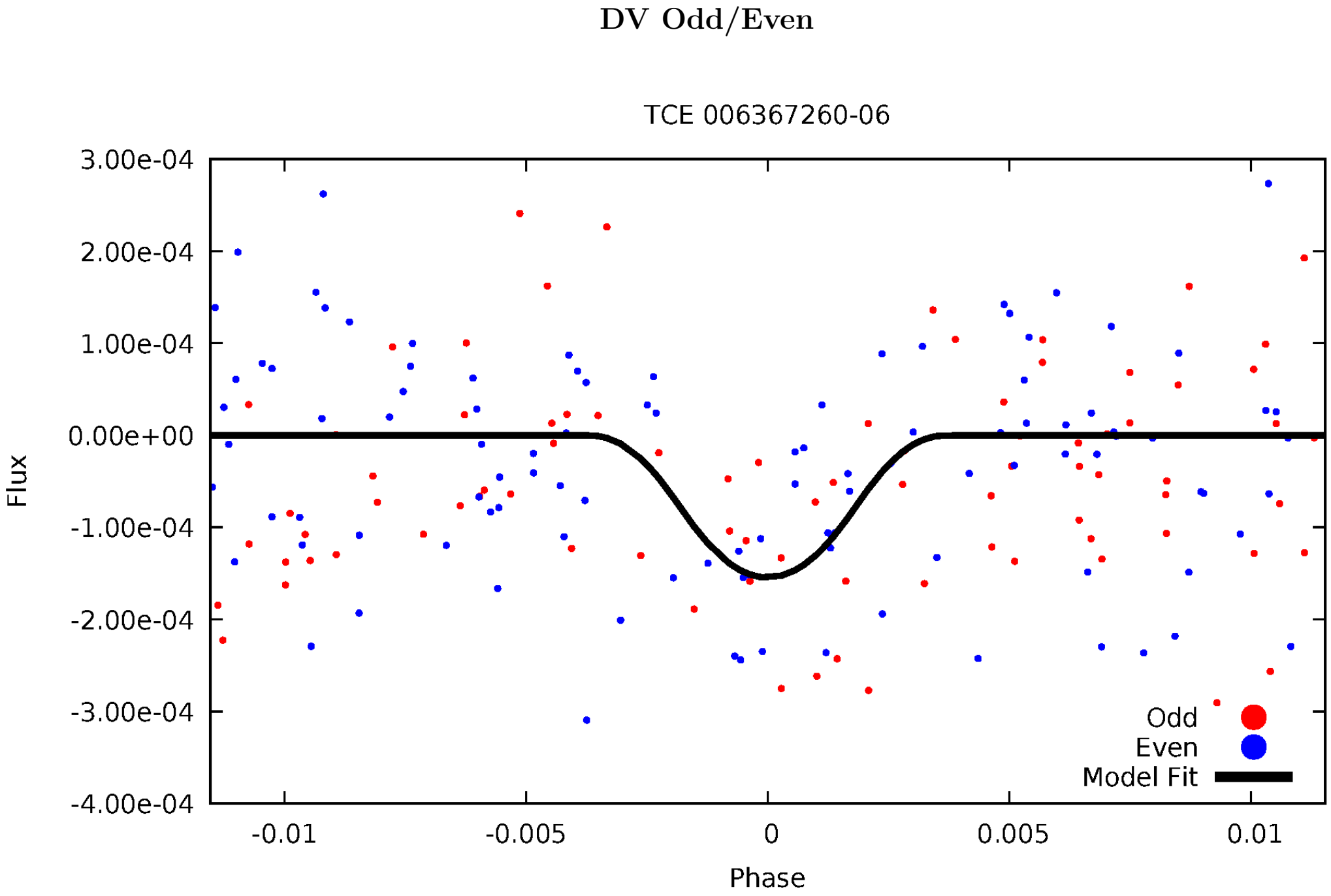
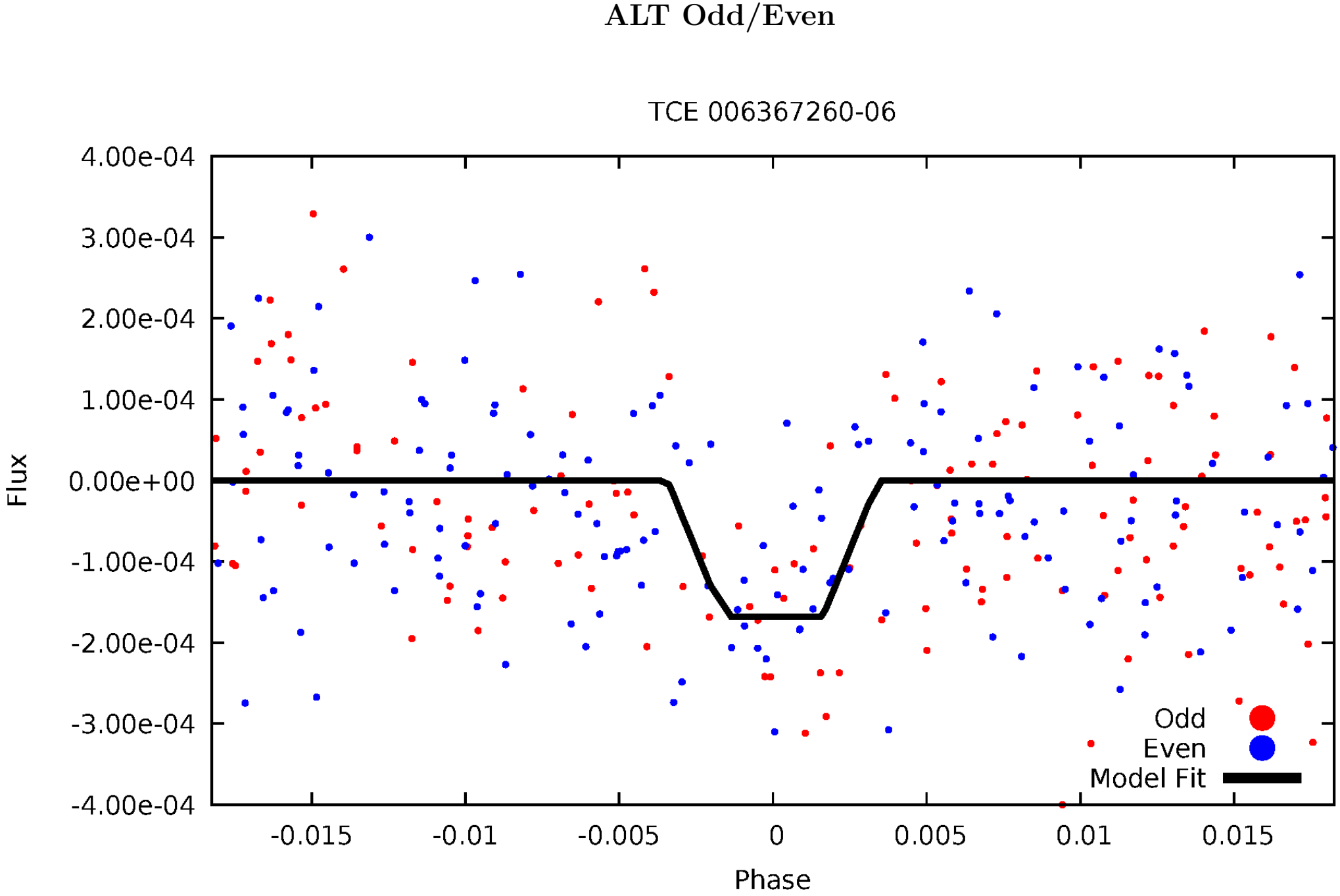
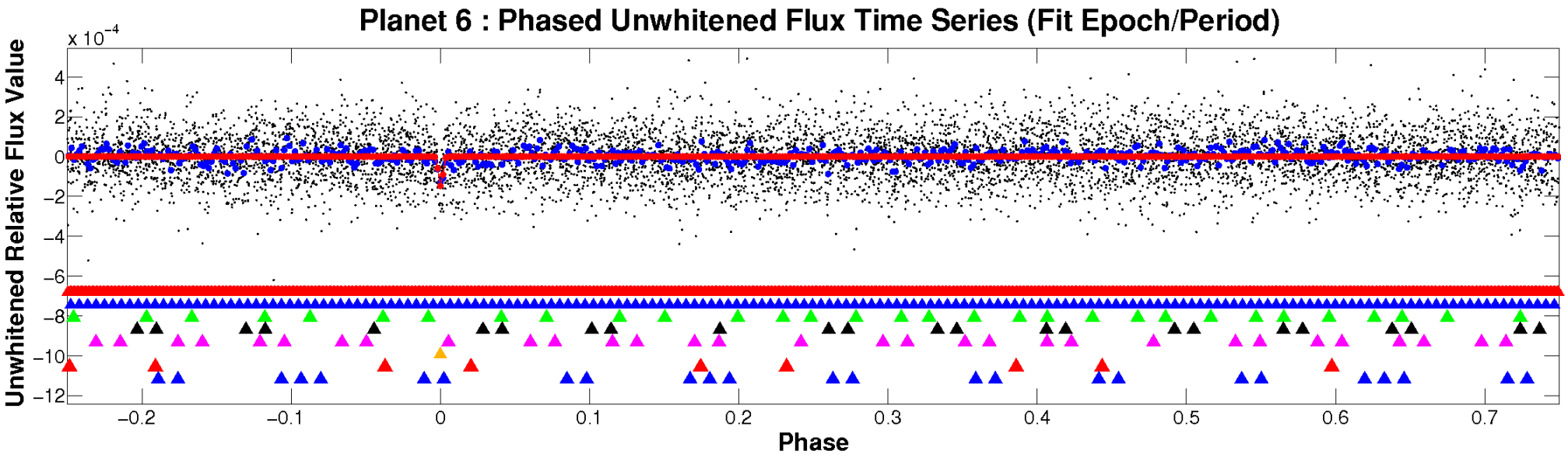
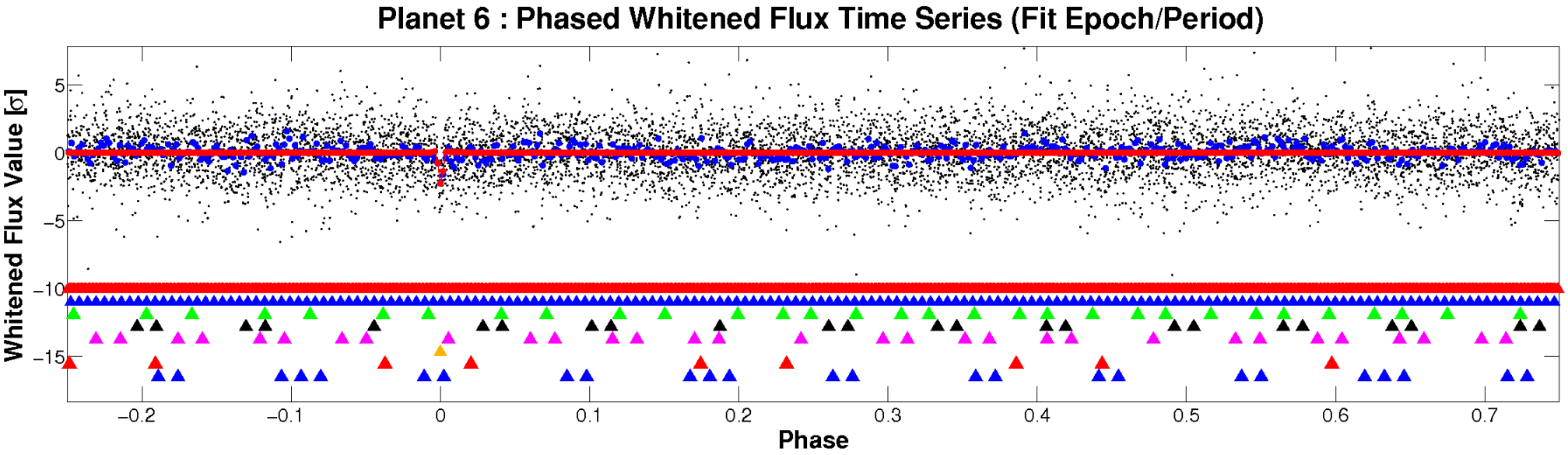
P = 5.660 days
P = 11.321 days
P = 22.642 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase


DV Odd/Even
TCE 006367260-06
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
-0.01
-0.005
0
0.005
0.01
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-06
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
Flux
-0.015
-0.01
-0.005
0
0.005
0.01
0.015
Phase
Odd
Even
Model Fit

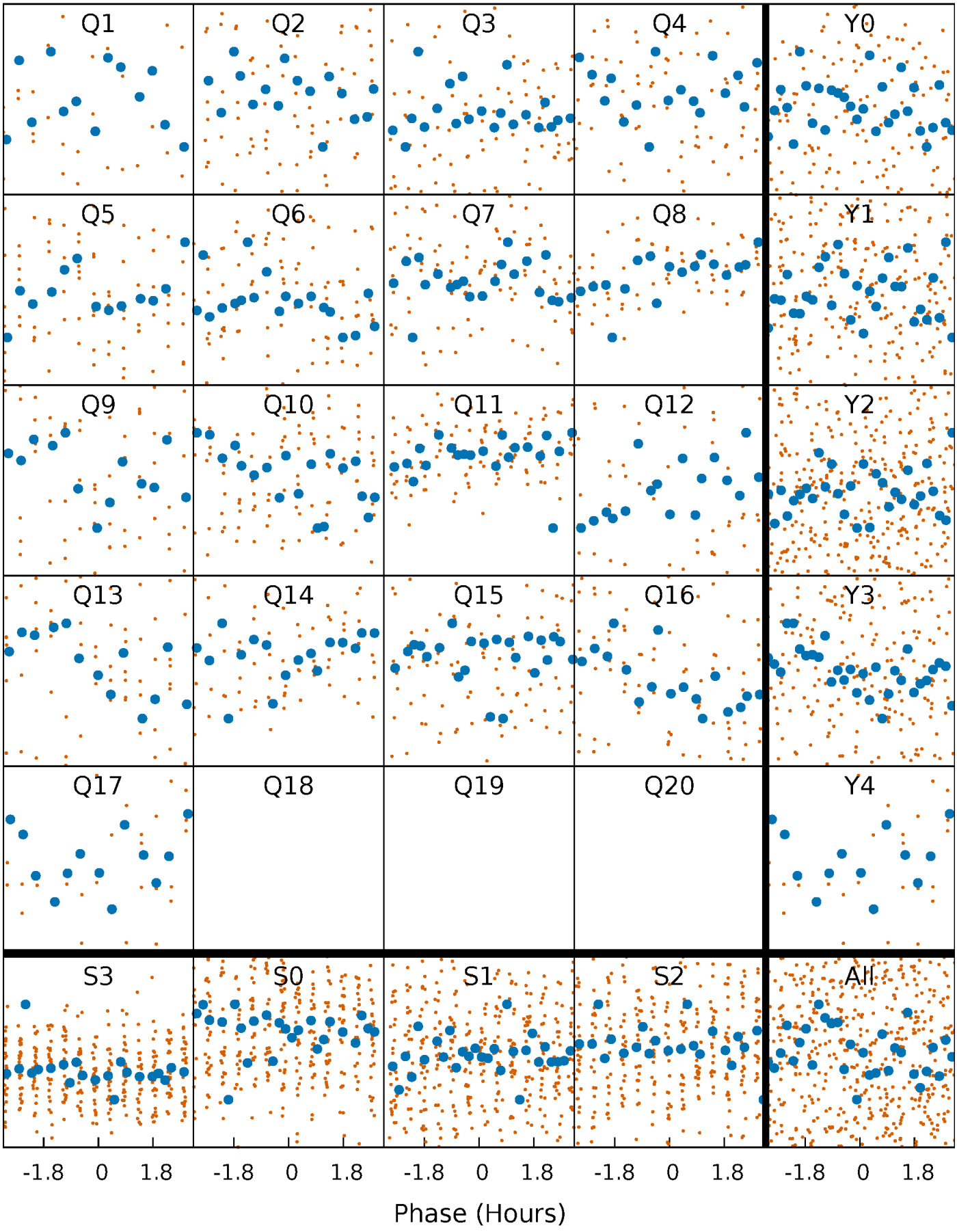
Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

TCE 006367260-06 P= 11.320799 Days T_0=139.570978 (BKJD)



DV Quarter-Phased Transit Curves

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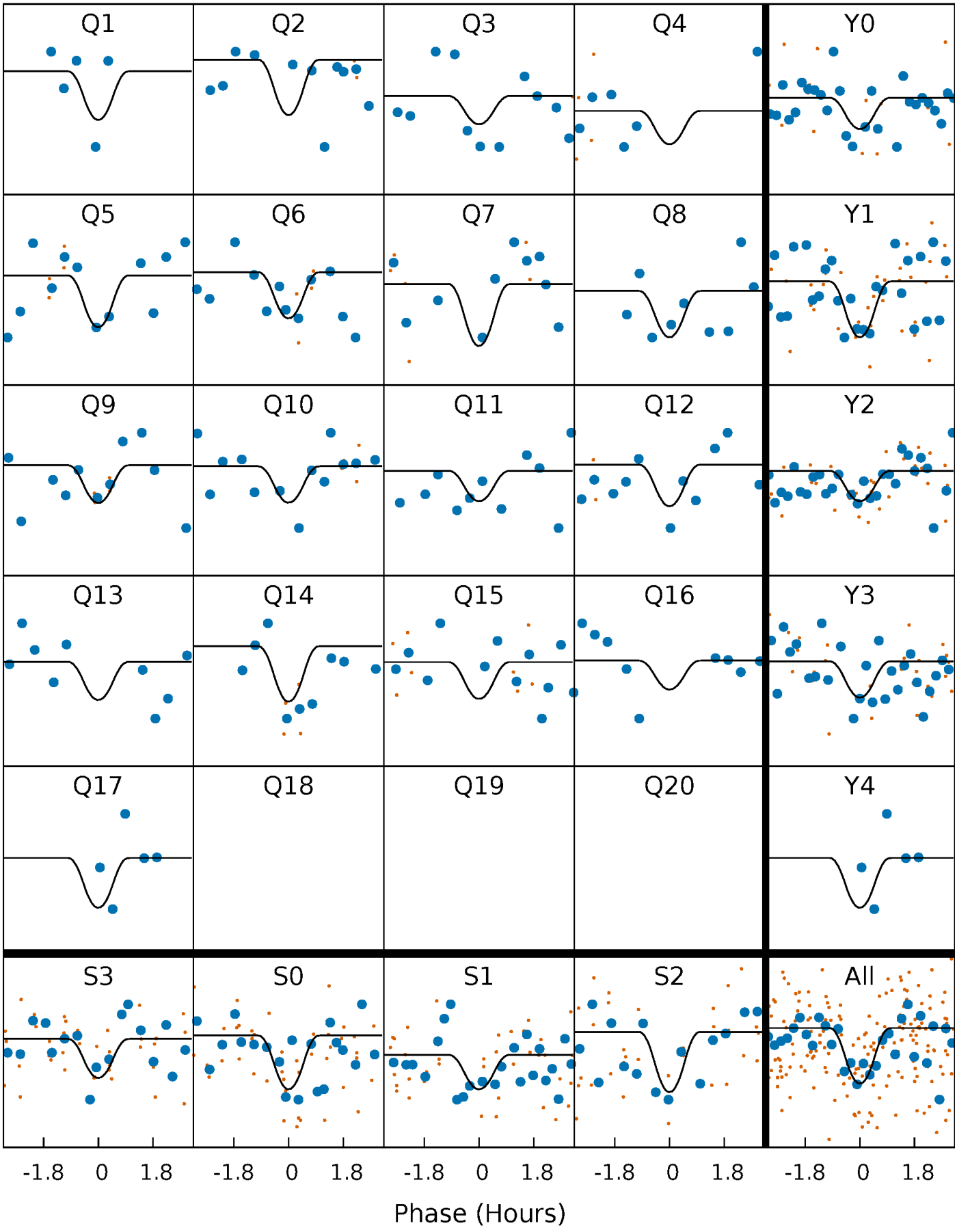

Alt. Detrend Quarter-Phased Transit Curves

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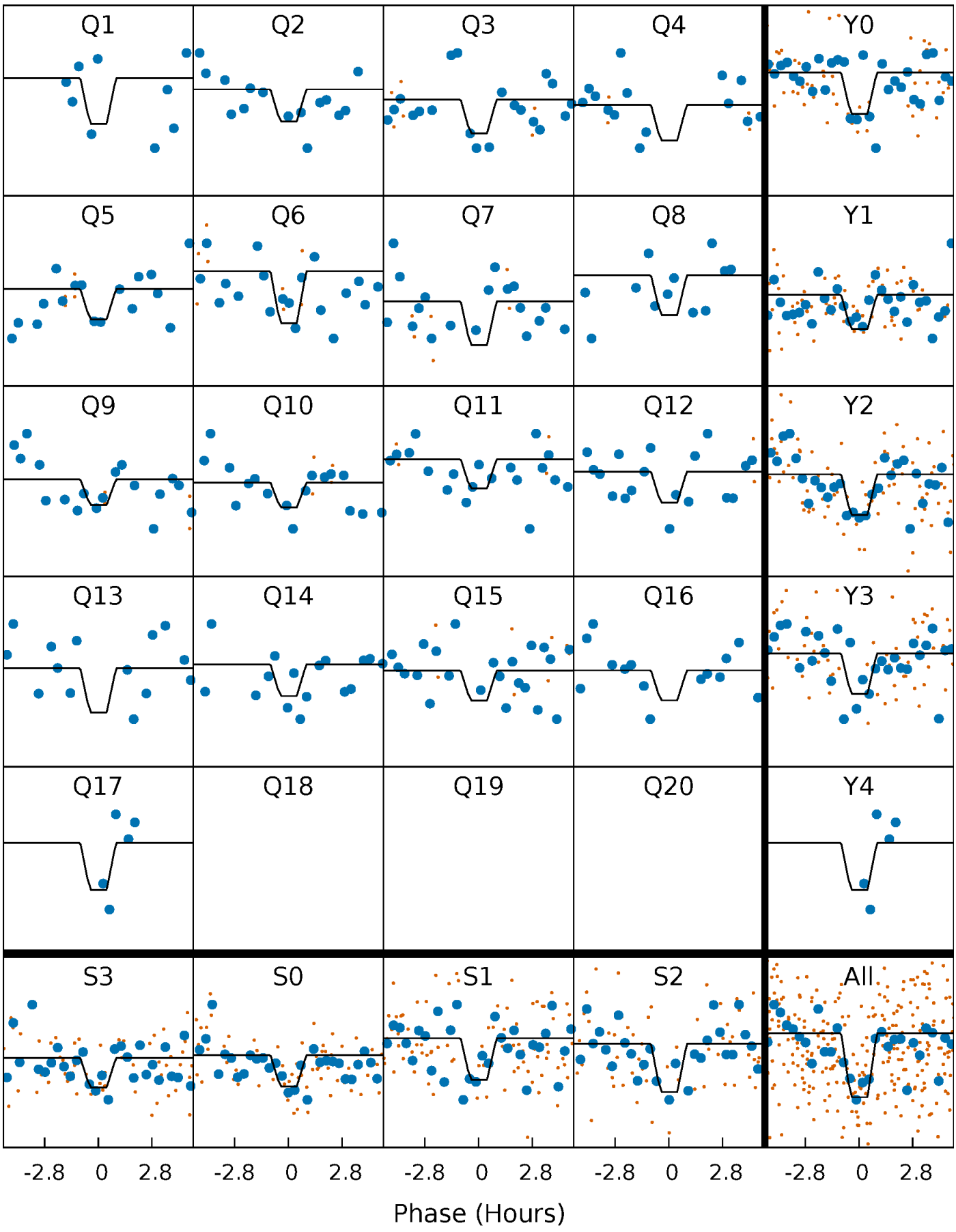
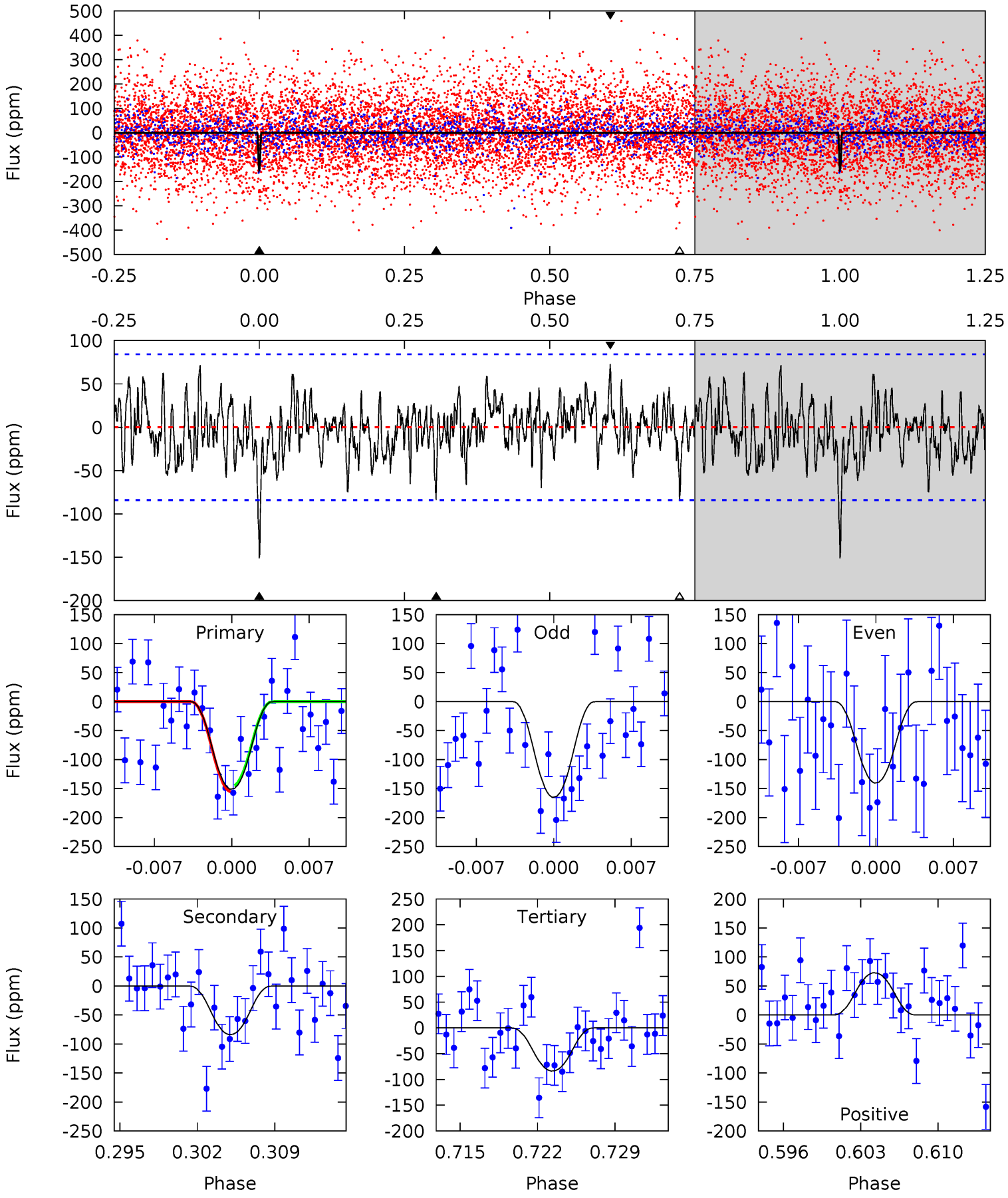


DV Model-Shift Uniqueness Test

006367260-06, P = 11.320799 Days, E = 128.250179 Days

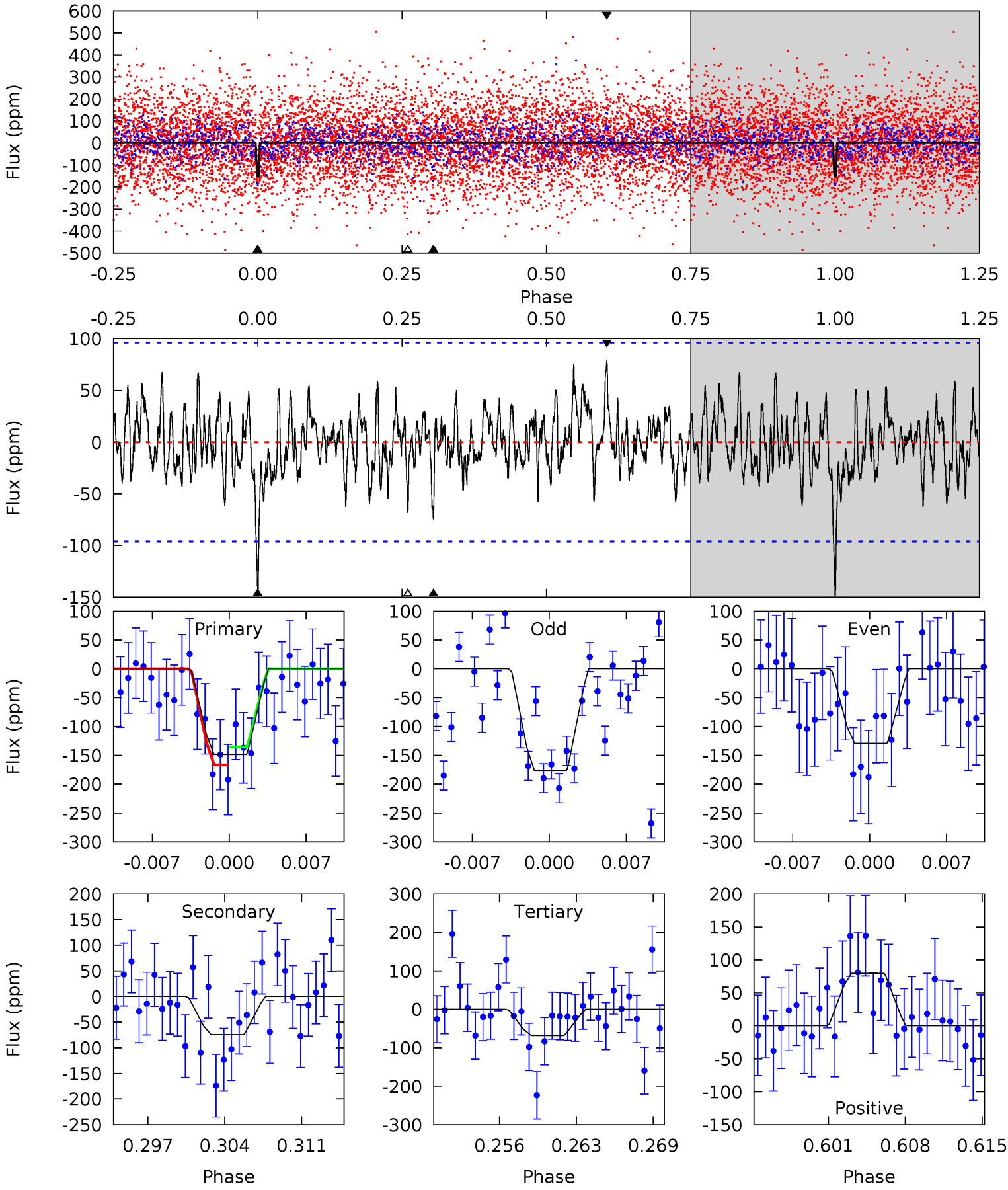
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.14	5.07	5.06	4.40	5.09	2.70	1.53	4.08	4.74	0.01	0.66	0.74	1.03	0.33	0.32



Alt Model-Shift Uniqueness Test

006367260-06, P = 11.320689 Days, E = 128.258092 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.88	3.95	3.62	4.23	5.10	2.70	1.29	4.26	3.65	0.33	-0.28	1.21	1.11	0.35	0.81



Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-06 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-84±17	$22.54^{+23.57}_{-15.62}$	2472^{+189}_{-338}	3229^{+1933}_{-1341}	$1.362^{+12.323}_{-1.051}$
Alt.	-74±19	$21.10^{+23.08}_{-14.71}$	2452^{+207}_{-337}	3162^{+2014}_{-5012}	$1.383^{+13.855}_{-1.092}$

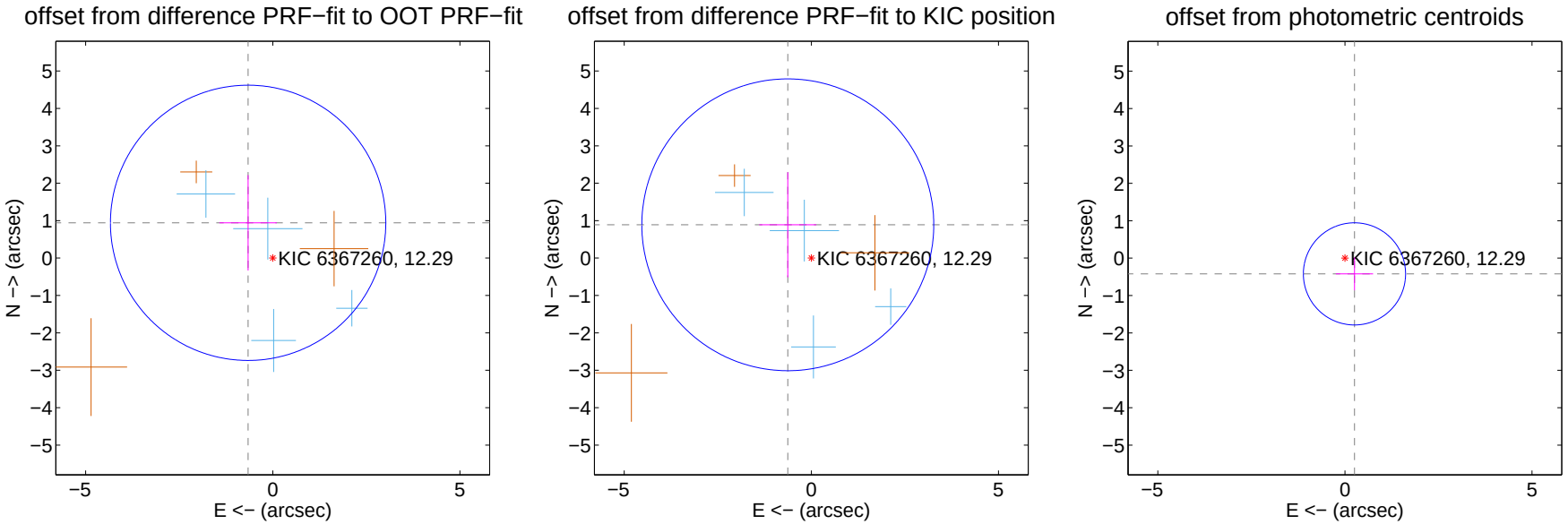
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

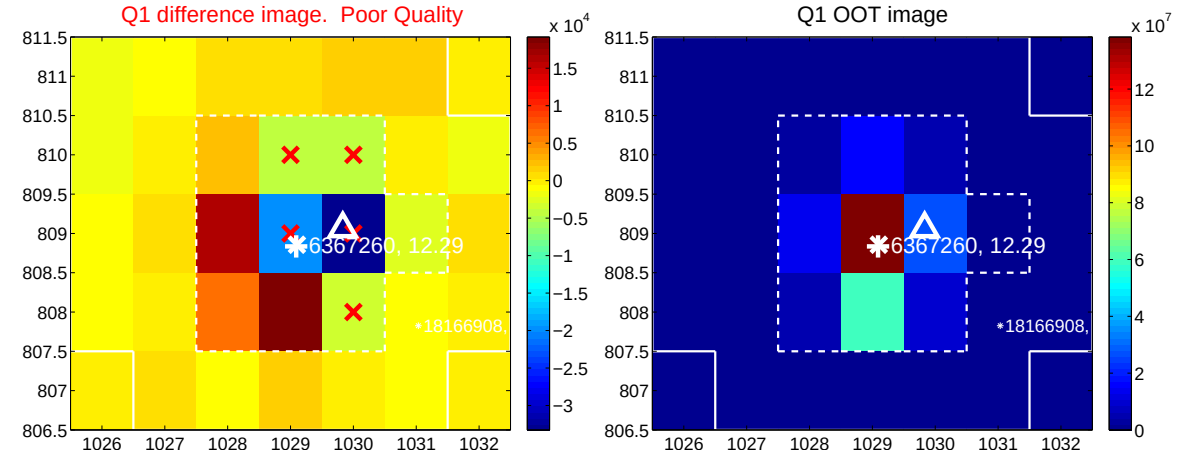
Supplemental centroid analysis for 006367260-06. Kepler magnitude: 12.29. Transit SNR 11.39
There are 4 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

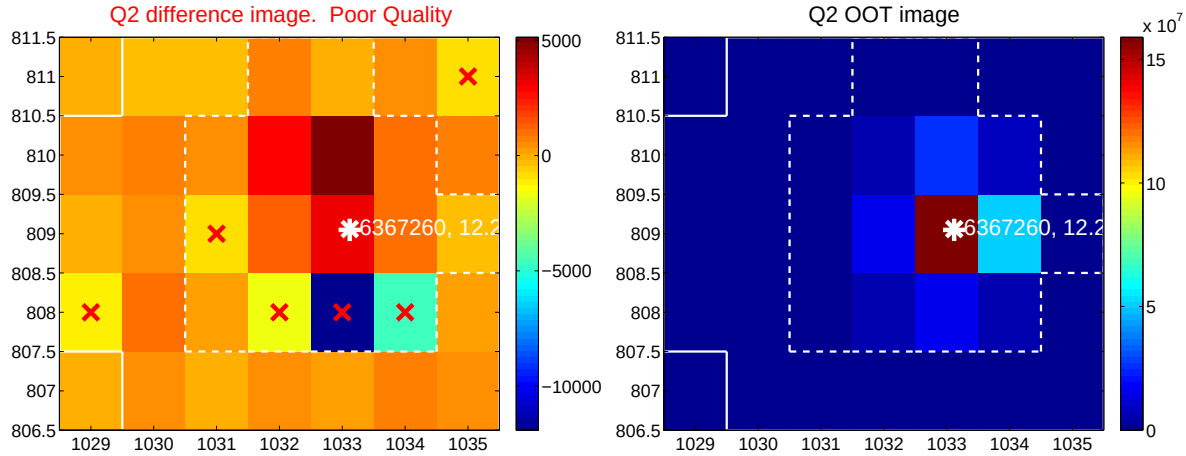
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.150 ± 1.226	0.94	0.659 ± 0.768	0.942 ± 1.274
PRF-fit source offset from KIC position	1.089 ± 1.300	0.84	0.630 ± 0.763	0.889 ± 1.404
photometric centroid source offset	0.49 ± 0.46	1.08	-0.26 ± 0.50	-0.42 ± 0.44

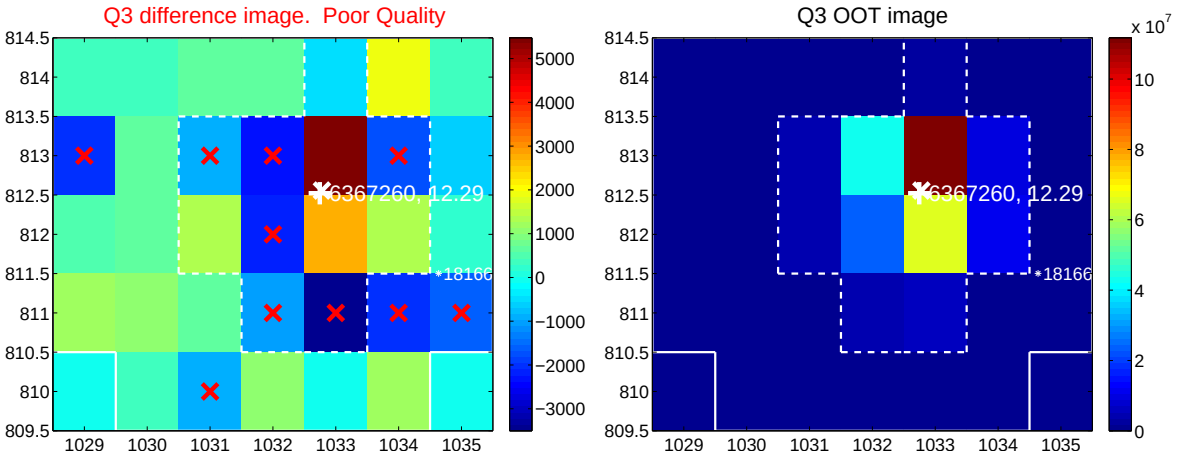


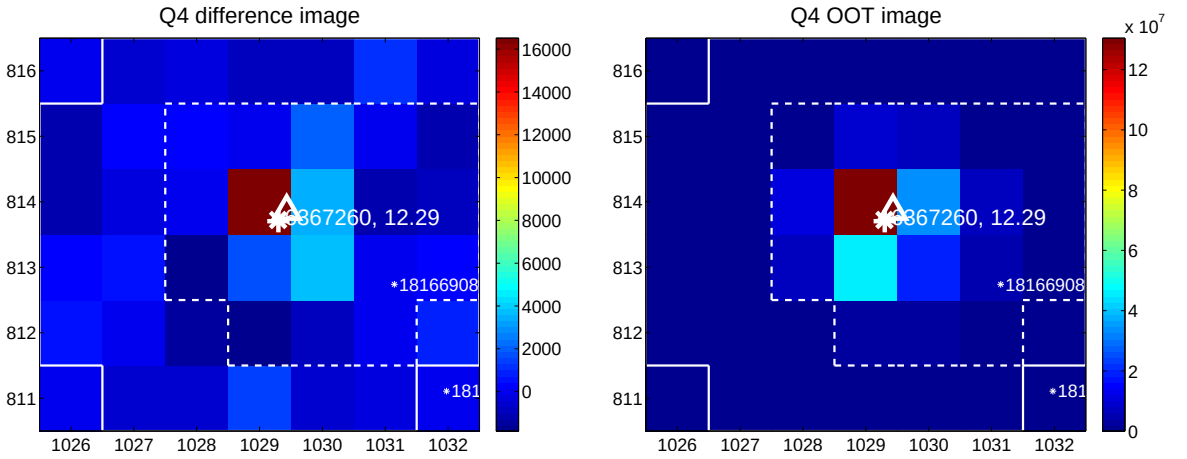
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

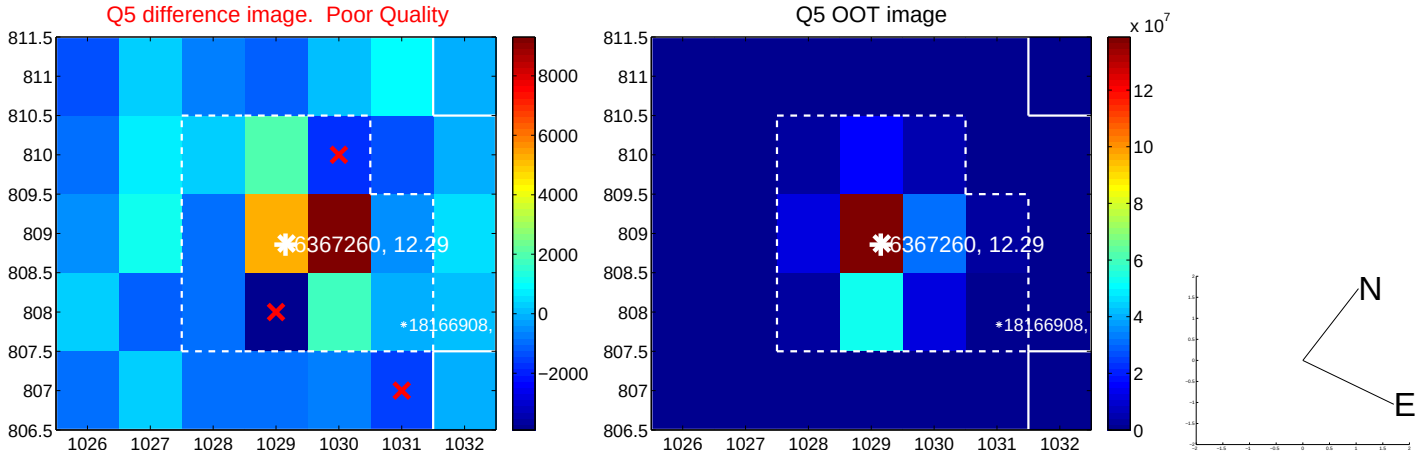


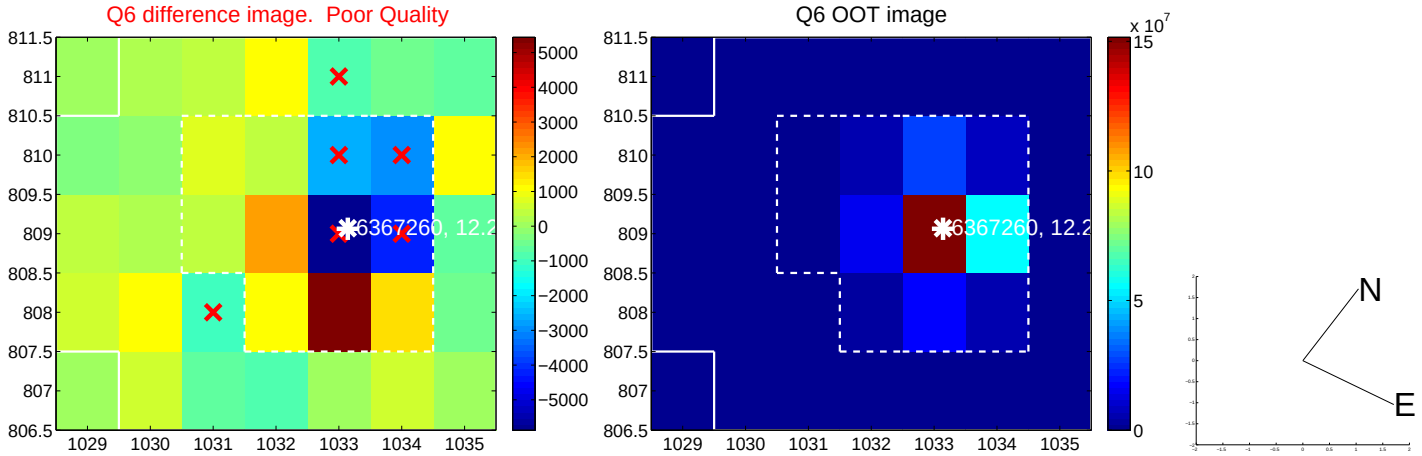


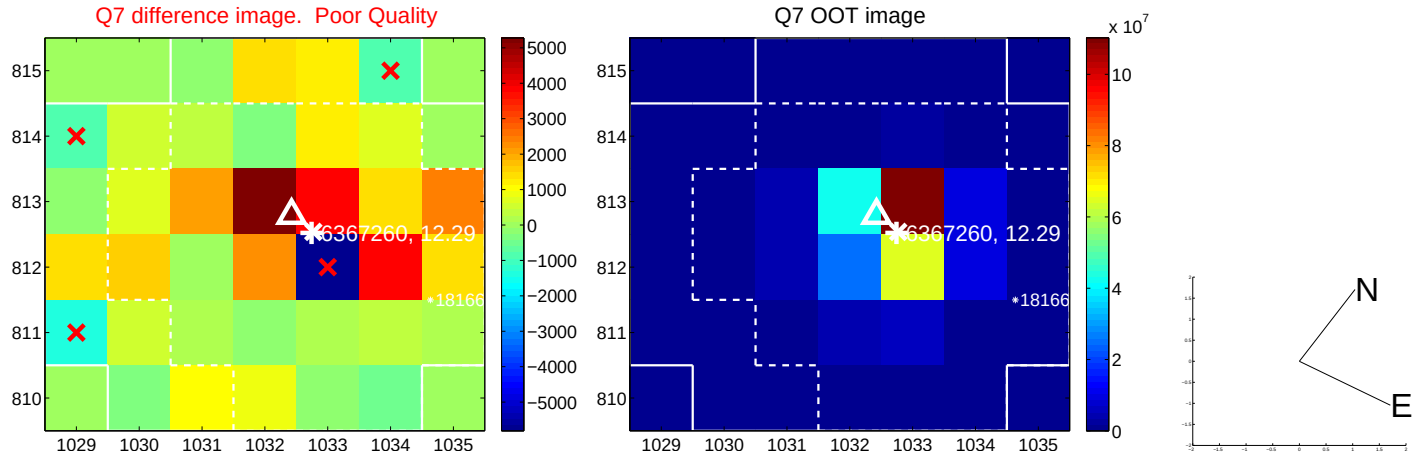


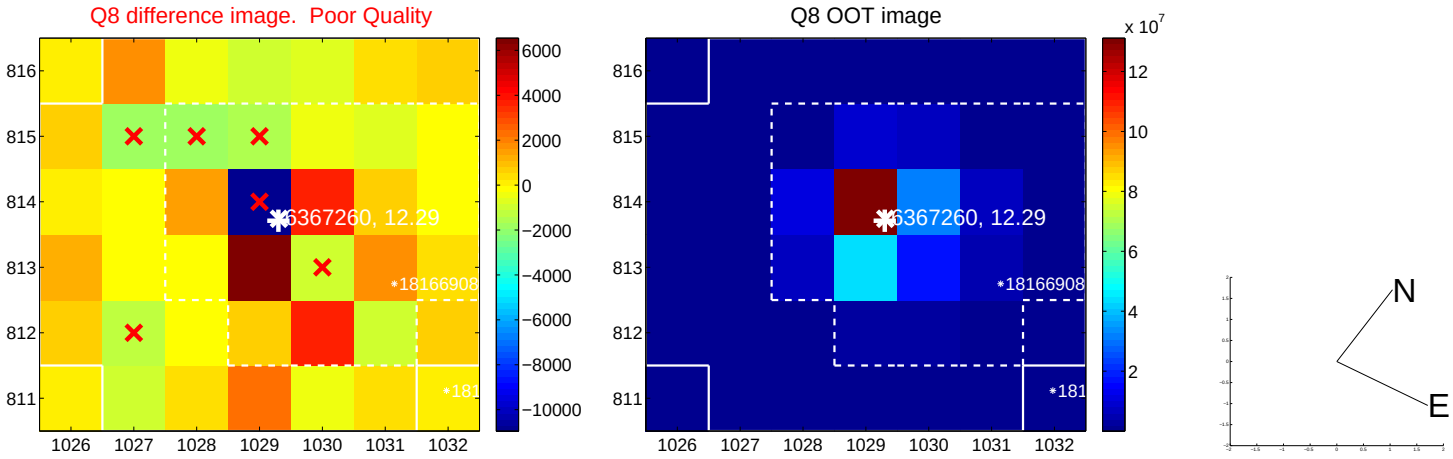


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

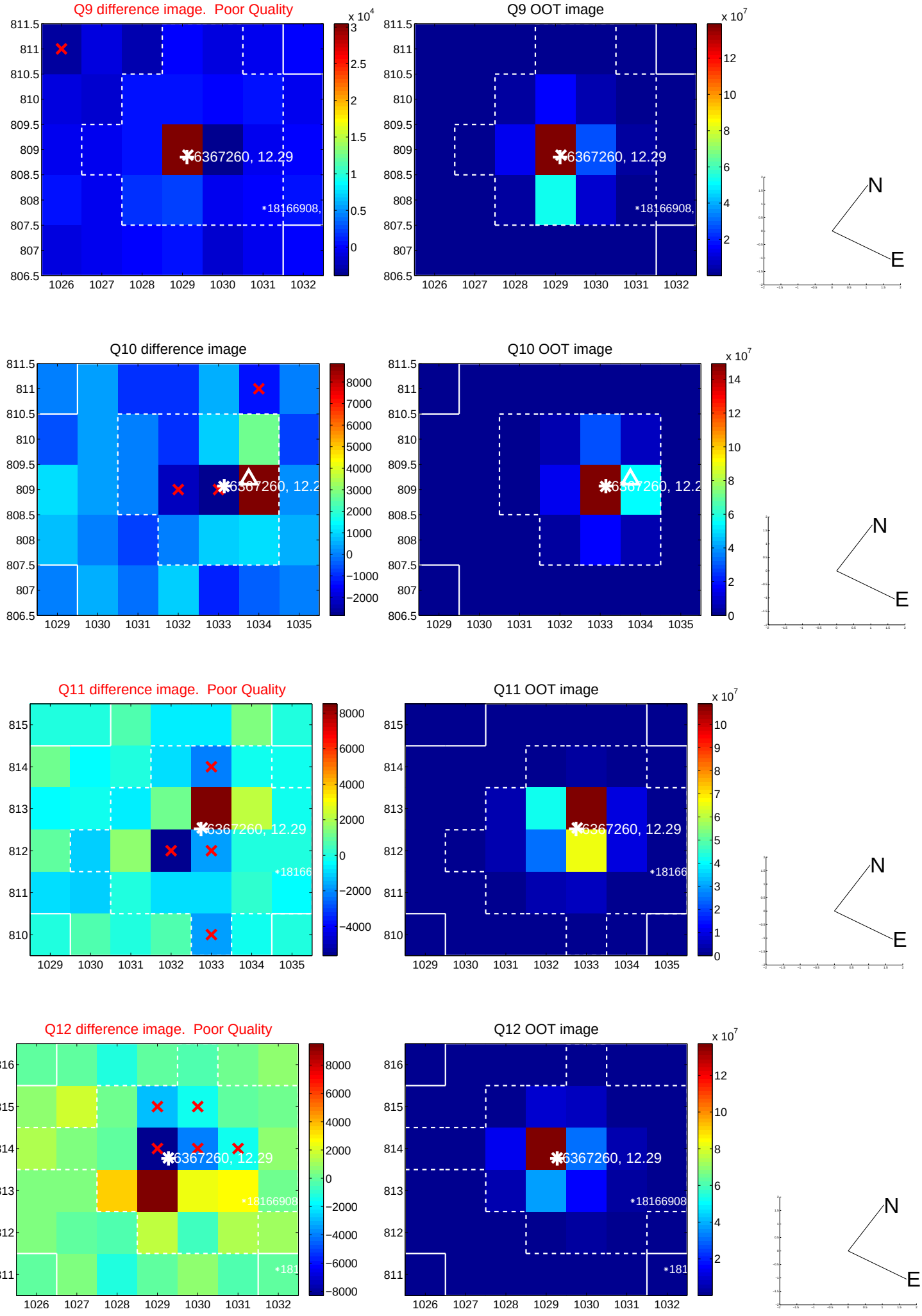




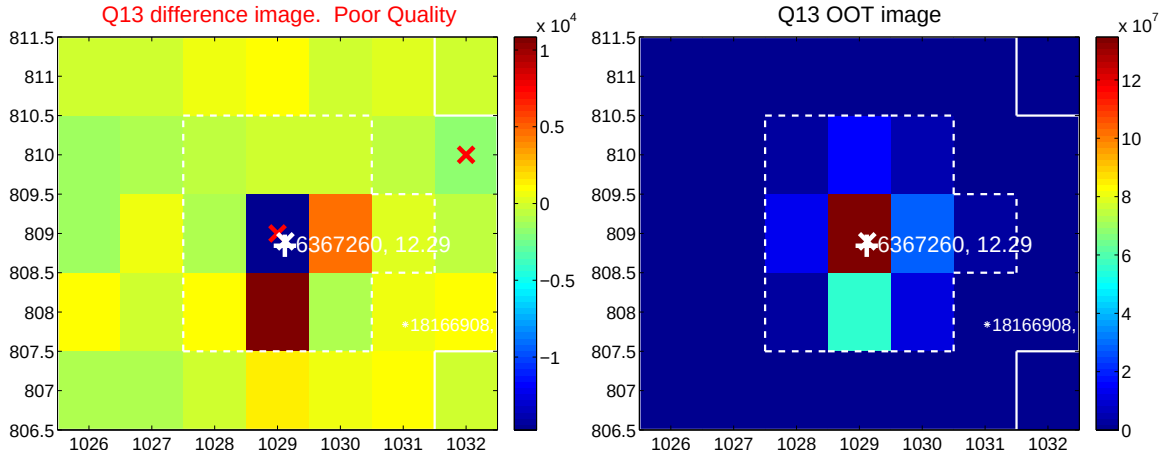


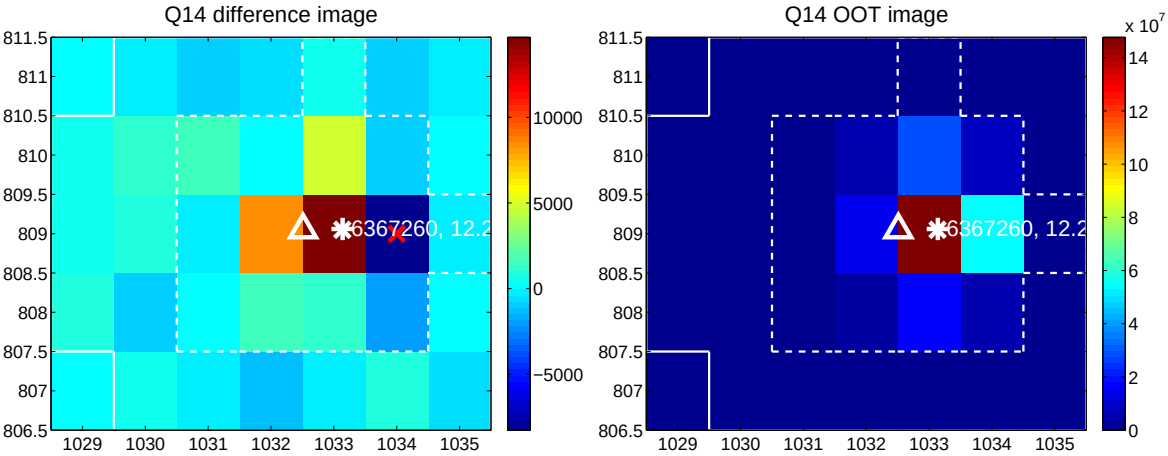


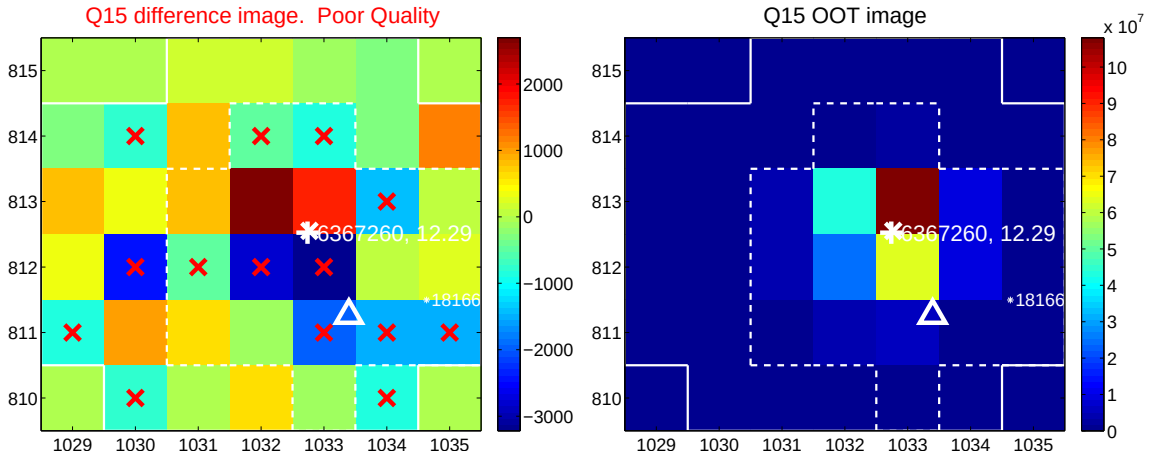
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

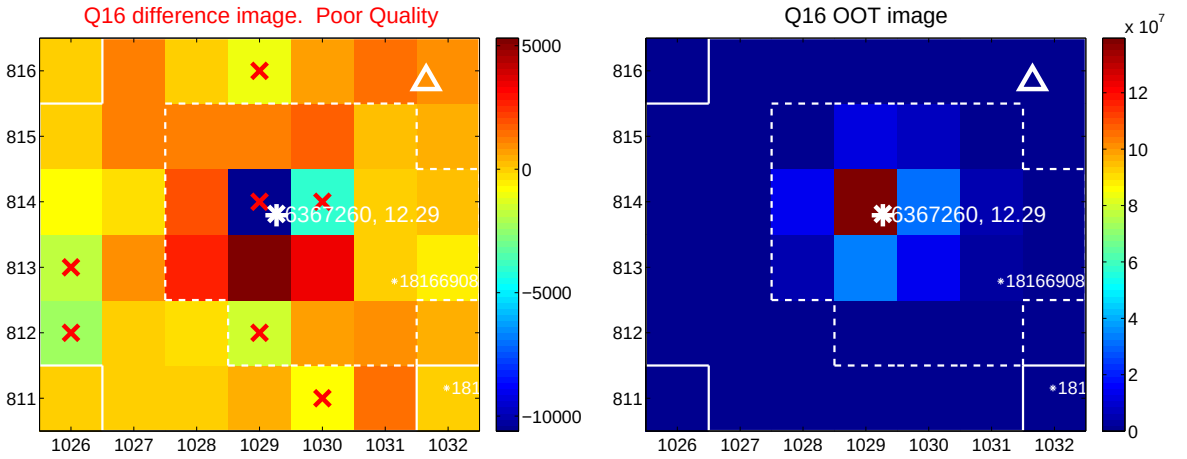


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

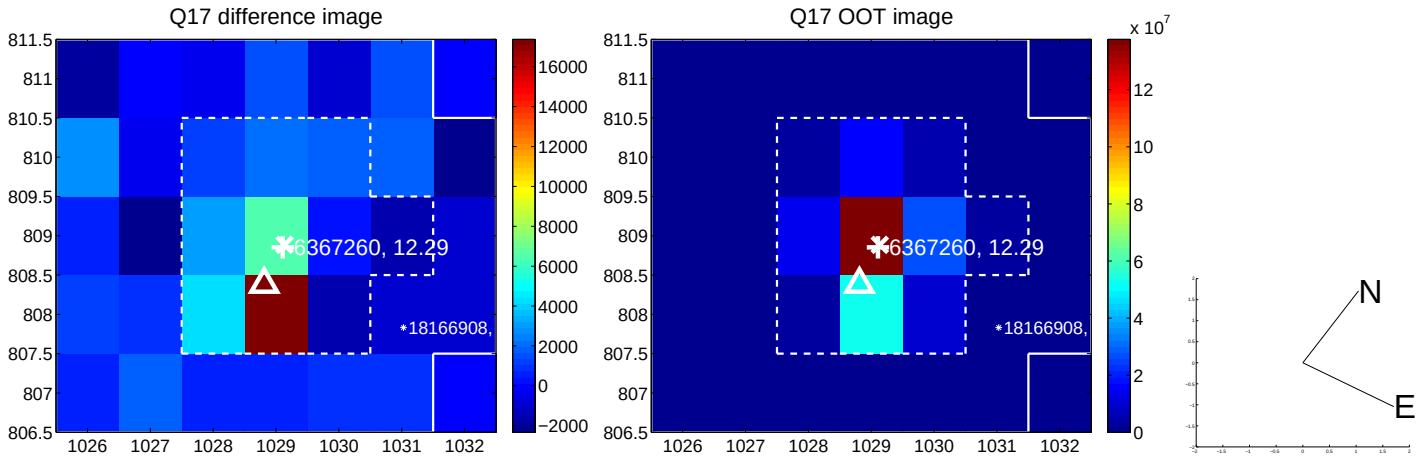


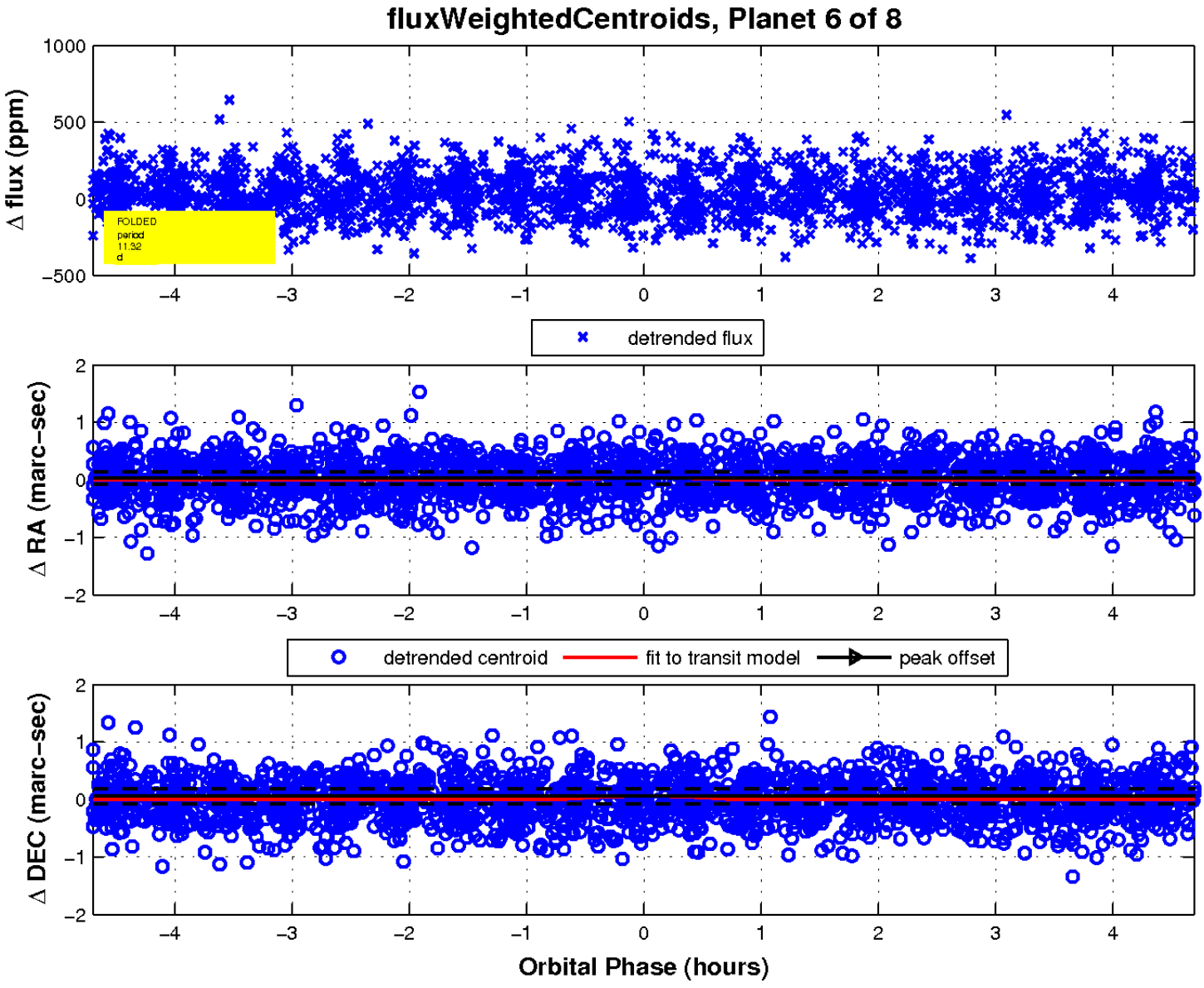




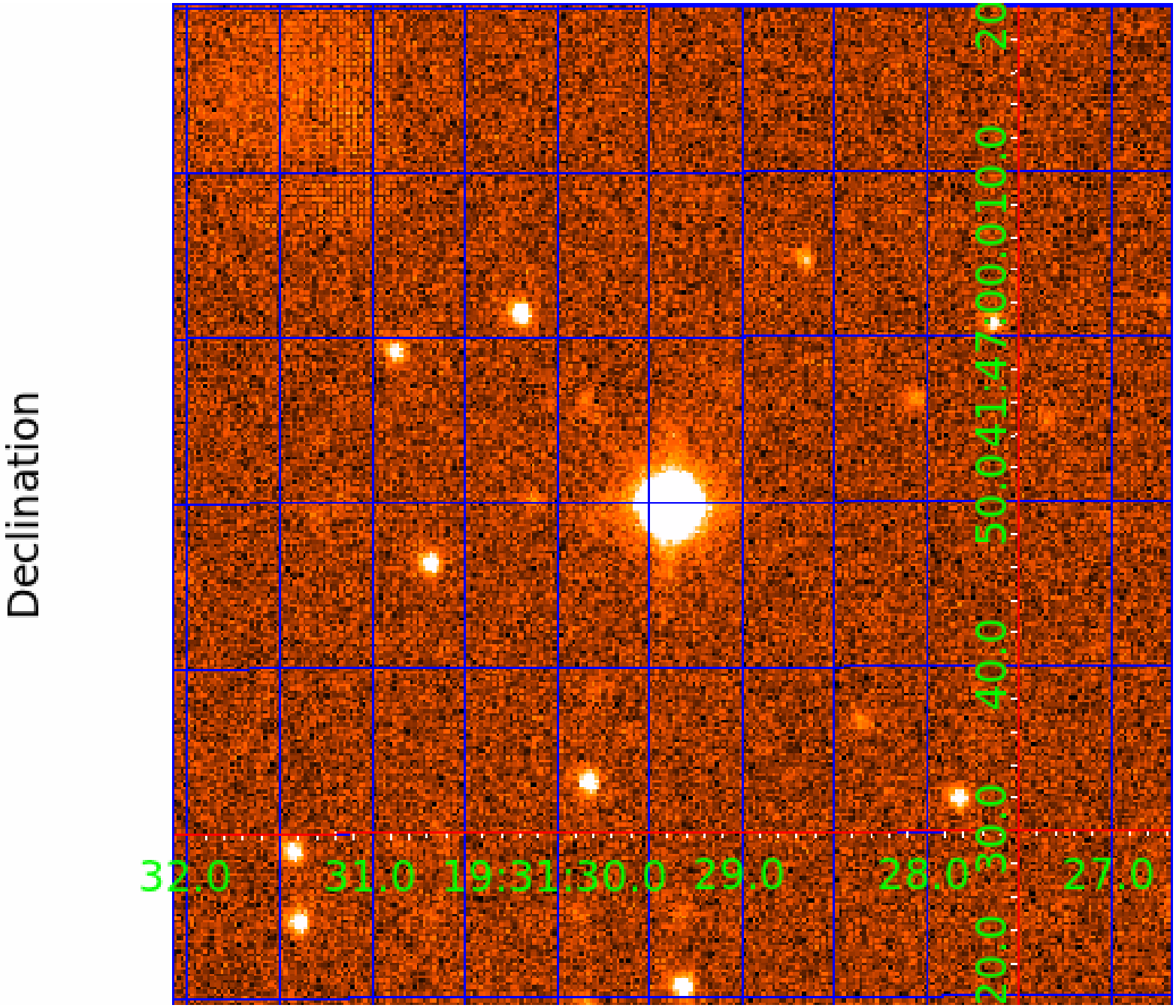


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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20

KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

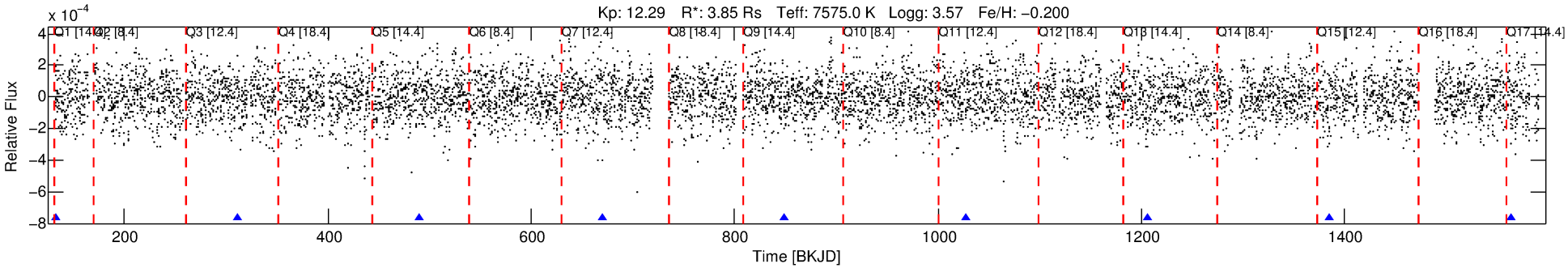
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

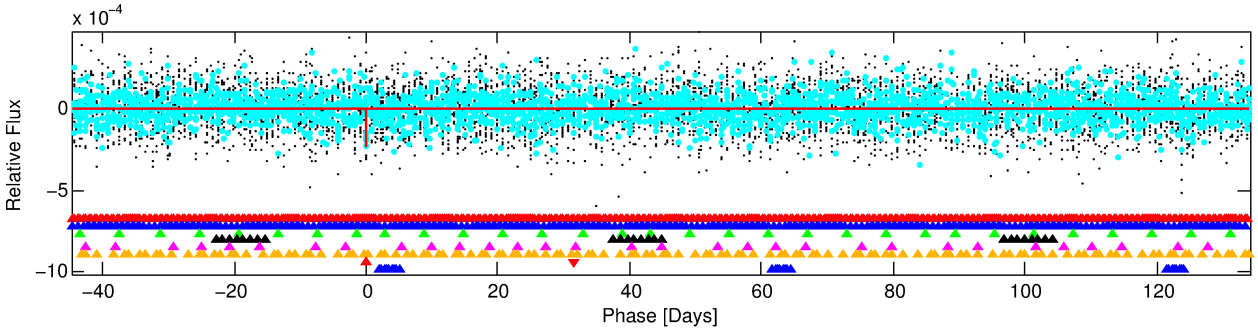
Ephemeris Match Information For 006367260-07

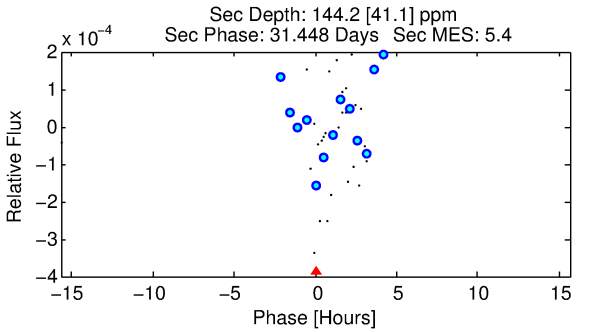
No Significant Match Found

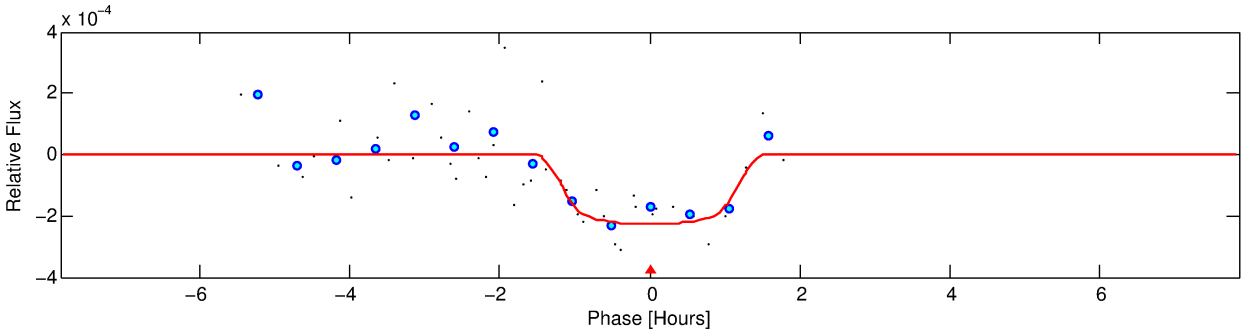
DV One-Page Summary

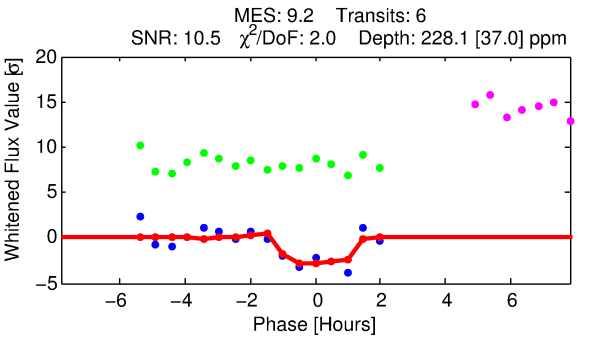
KIC: 6367260 Candidate: 7 of 8 Period: 178.738 d

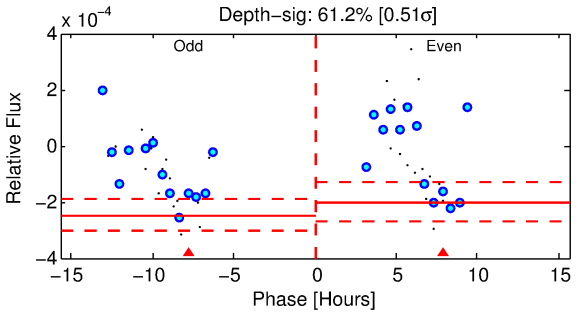


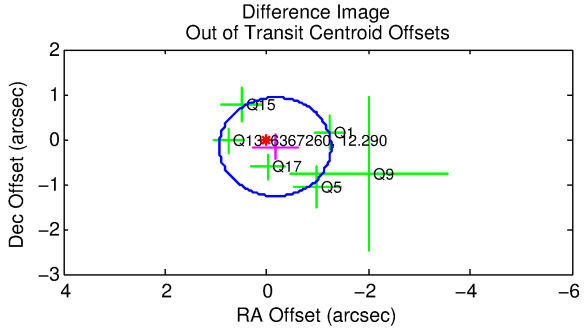












DV Fit Results:

Period = 178.73824 [0.00400] d
Epoch = 133.2716 [0.0249] BKJD
Rp/R* = 0.0163 [0.0120]
a/R* = 246.71 [1003.00]
b = 0.90 [0.89]

Seff = 71.18 [67.78]
Teq = 741 [176] K
Rp = 6.84 [6.39] Re
a = 0.7836 [0.4495] AU

Ag = 1042.37 [1849.60] [0.56σ]
Teffp = 6507 [2465] K [2.33σ]

DV Diagnostic Results:

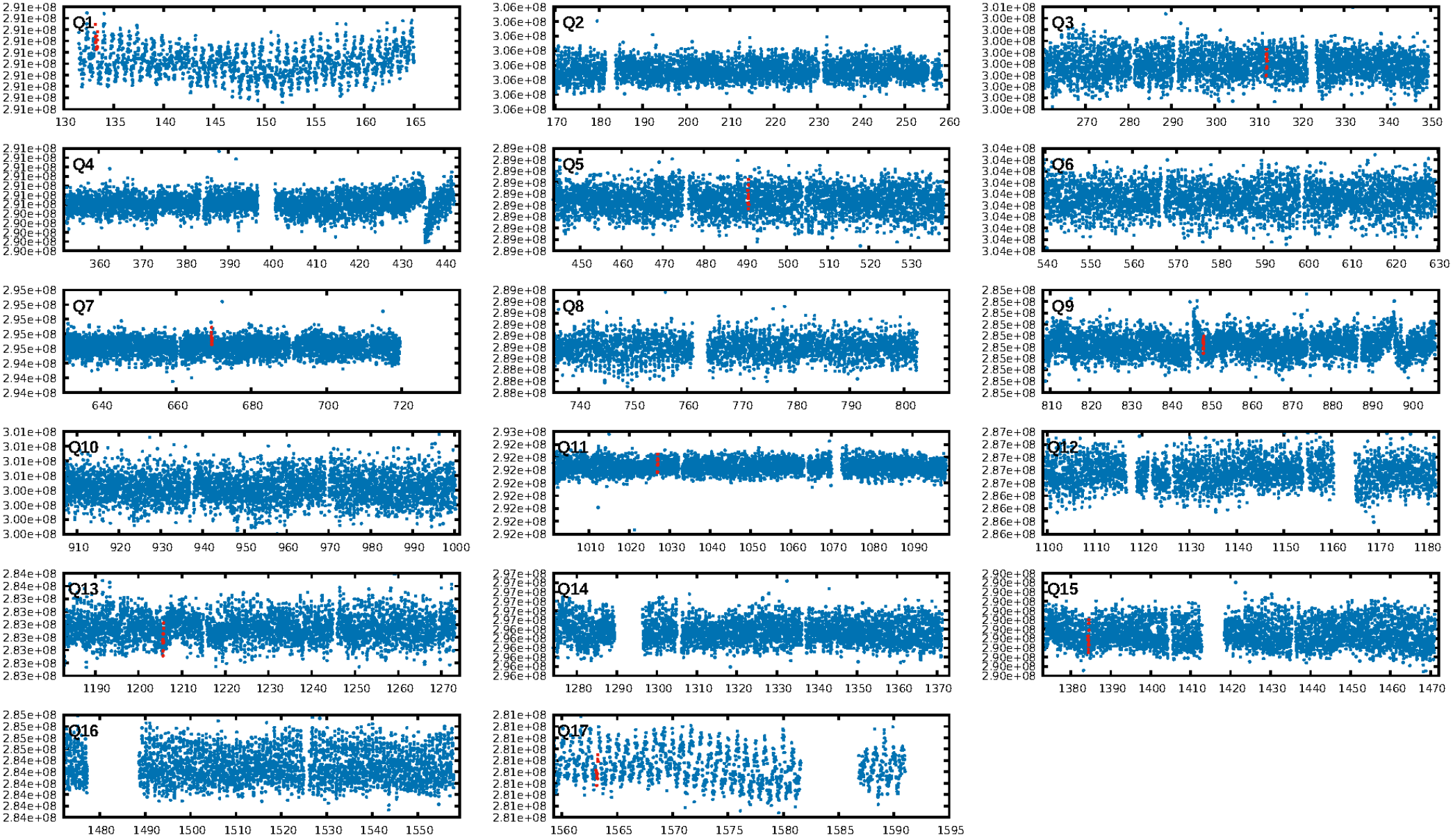
ShortPeriod−sig: 100.0% [866.01σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: 16.2%
ModelChiSquareGof−sig: 99.9%
Bootstrap−pfa: 3.17e−07
RollingBand−fgt: 1.00 [5/5]
GhostDiagnostic−chr: −25.45

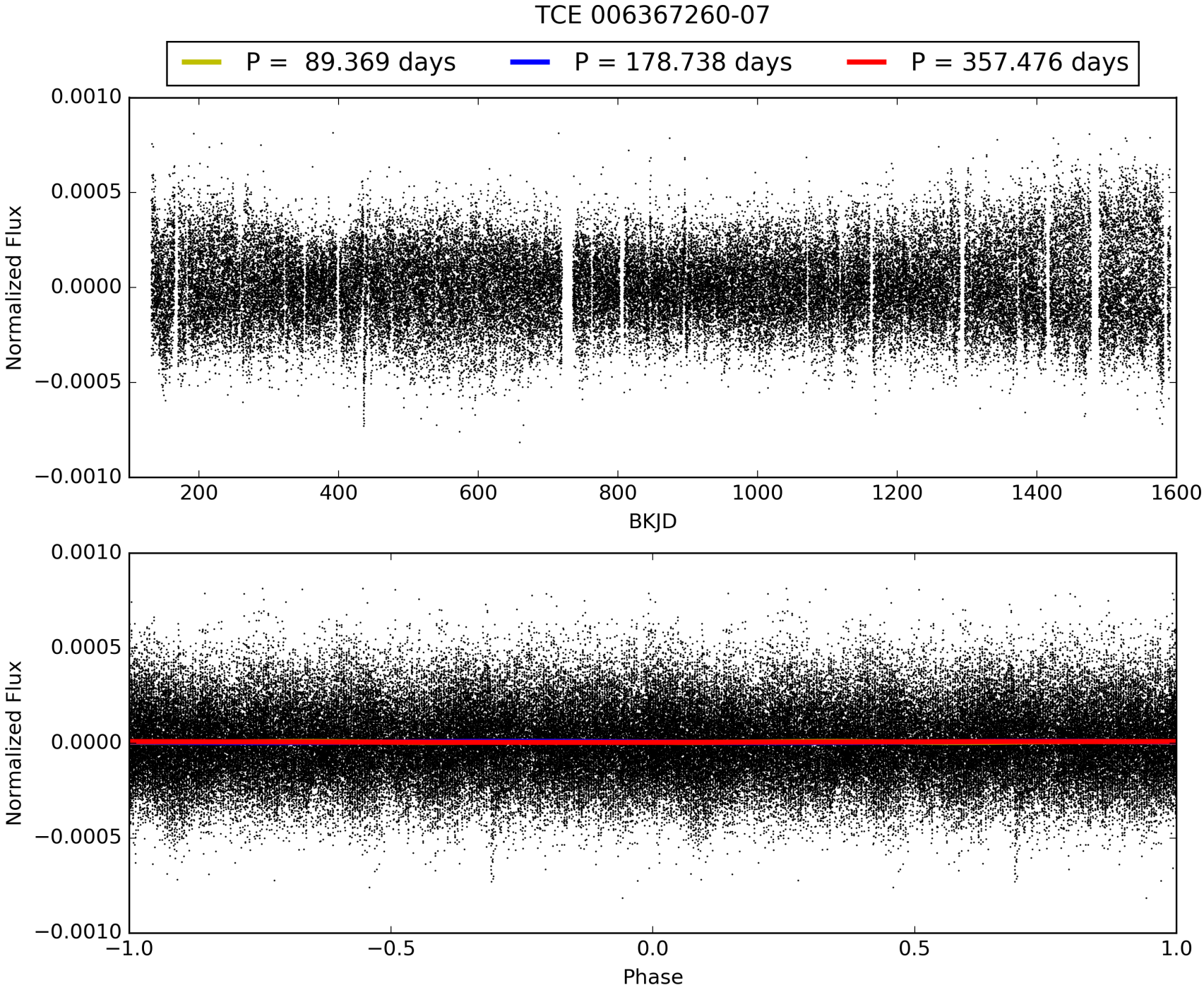
Centroid−sig: 66.6%
Centroid−so: 0.374 arcsec [0.50σ]
OotOffset−rm: 0.236 arcsec [0.65σ]
KicOffset−rm: 0.378 arcsec [1.07σ]
OotOffset−st: 0/1/0/5 [6]
KicOffset−st: 0/1/0/5 [6]
DiffImageQuality−fgm: 0.67 [4/6]
DiffImageOverlap−fno: 0.00 [0/9]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:06:11 Z

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

TCE 006367260-07, PDC Light Curves

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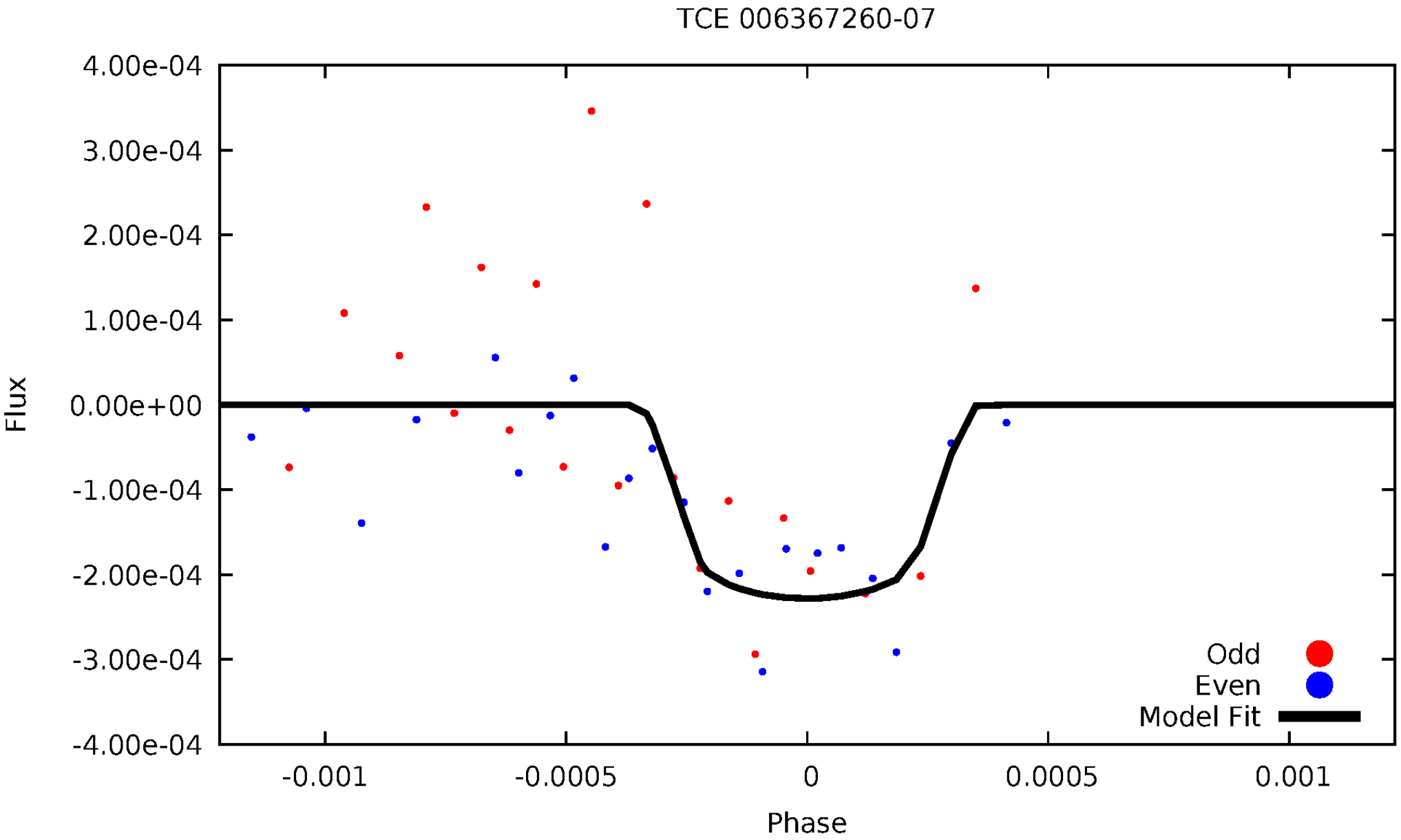
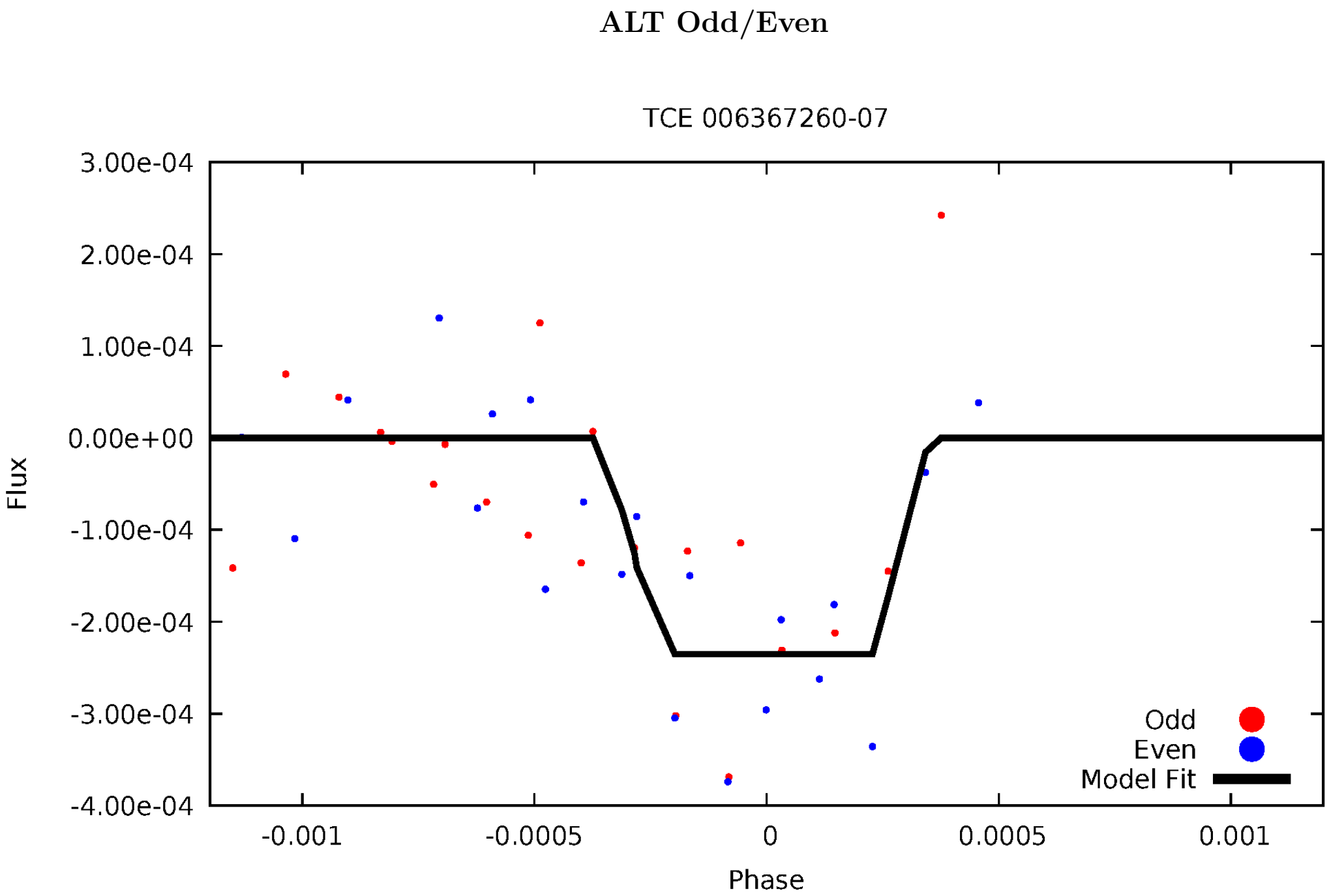
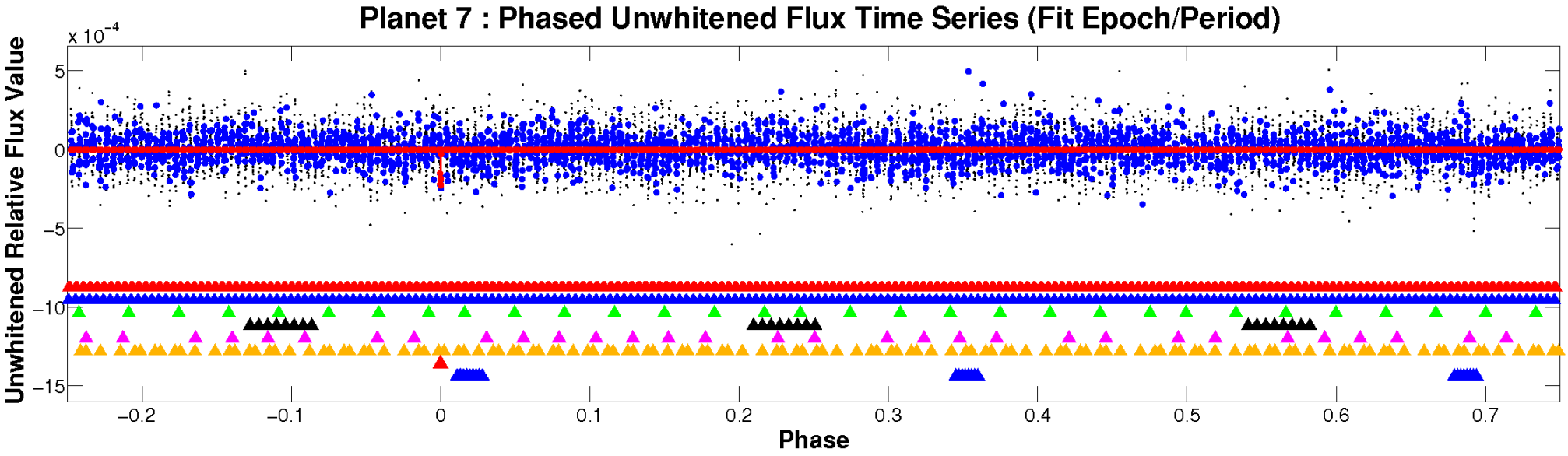
P = 89.369 days
P = 178.738 days
P = 357.476 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

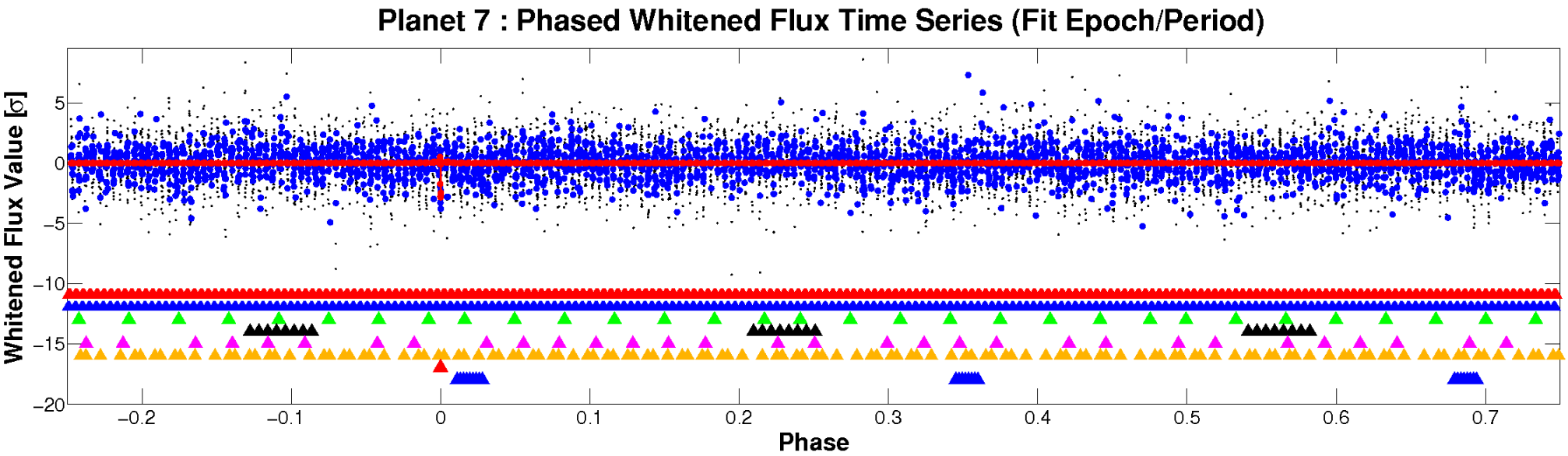
DV Odd/Even


TCE 006367260-07
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
Flux
-0.001
-0.0005
0
0.0005
0.001
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-07
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
-0.001
-0.0005
0
0.0005
0.001
Phase
Odd
Even
Model Fit

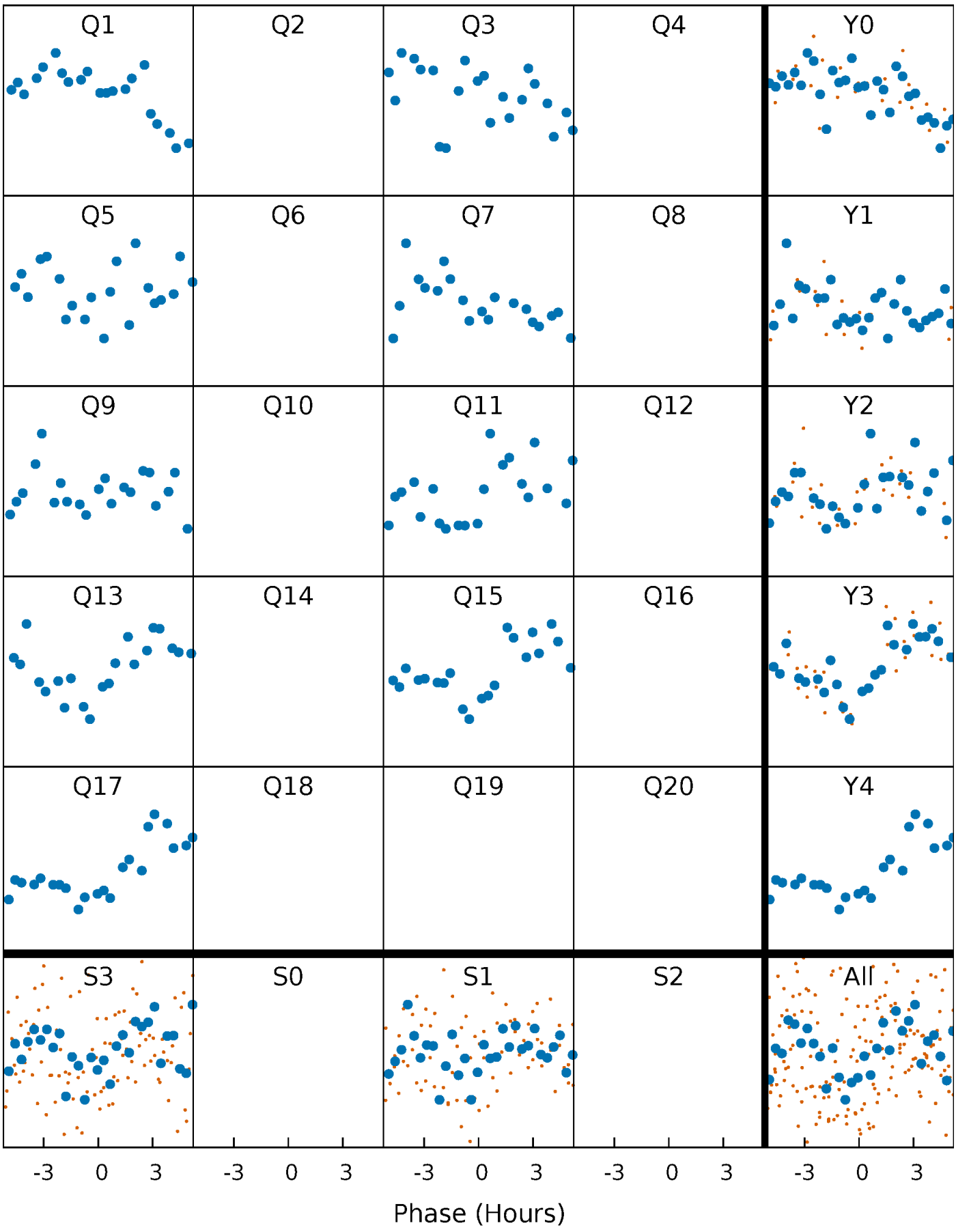
Non-Whitened Vs. Whitened Light Curve





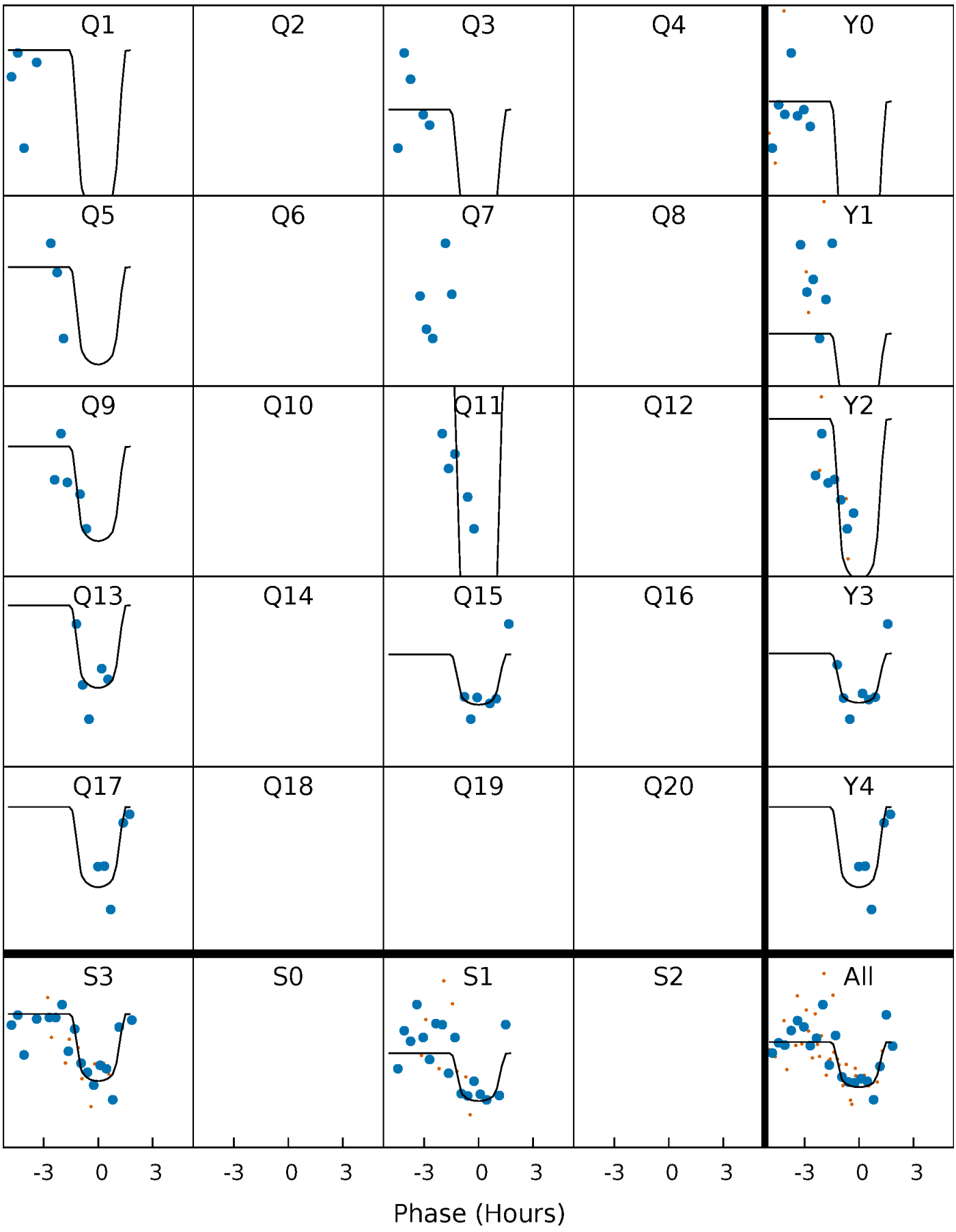
PDC Quarter-Phased Transit Curves

TCE 006367260-07 P=178.738236 Days T_0=133.271578 (BKJD)



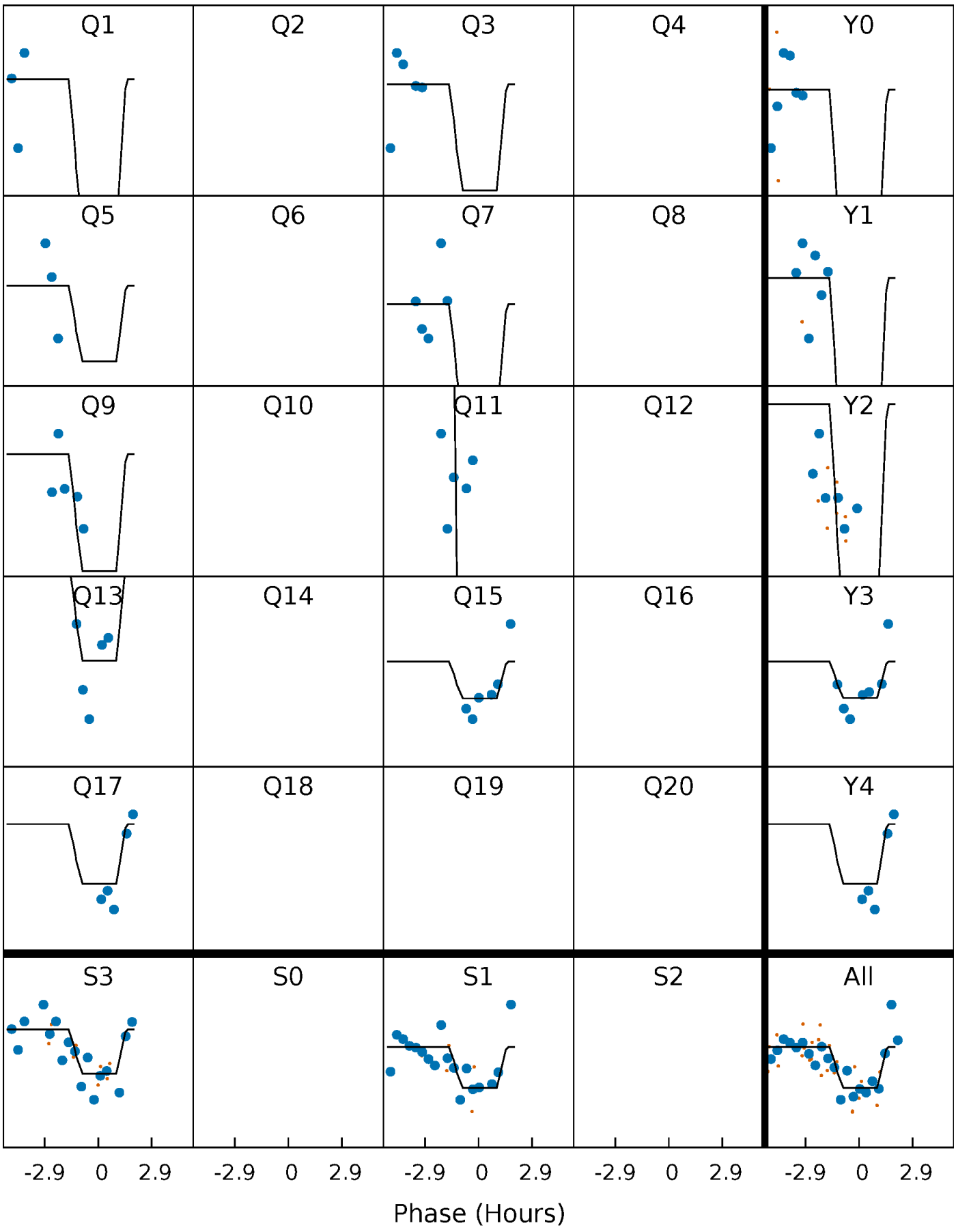
DV Quarter-Phased Transit Curves

TCE 006367260-07 P=178.738236 Days T_0=133.271578 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

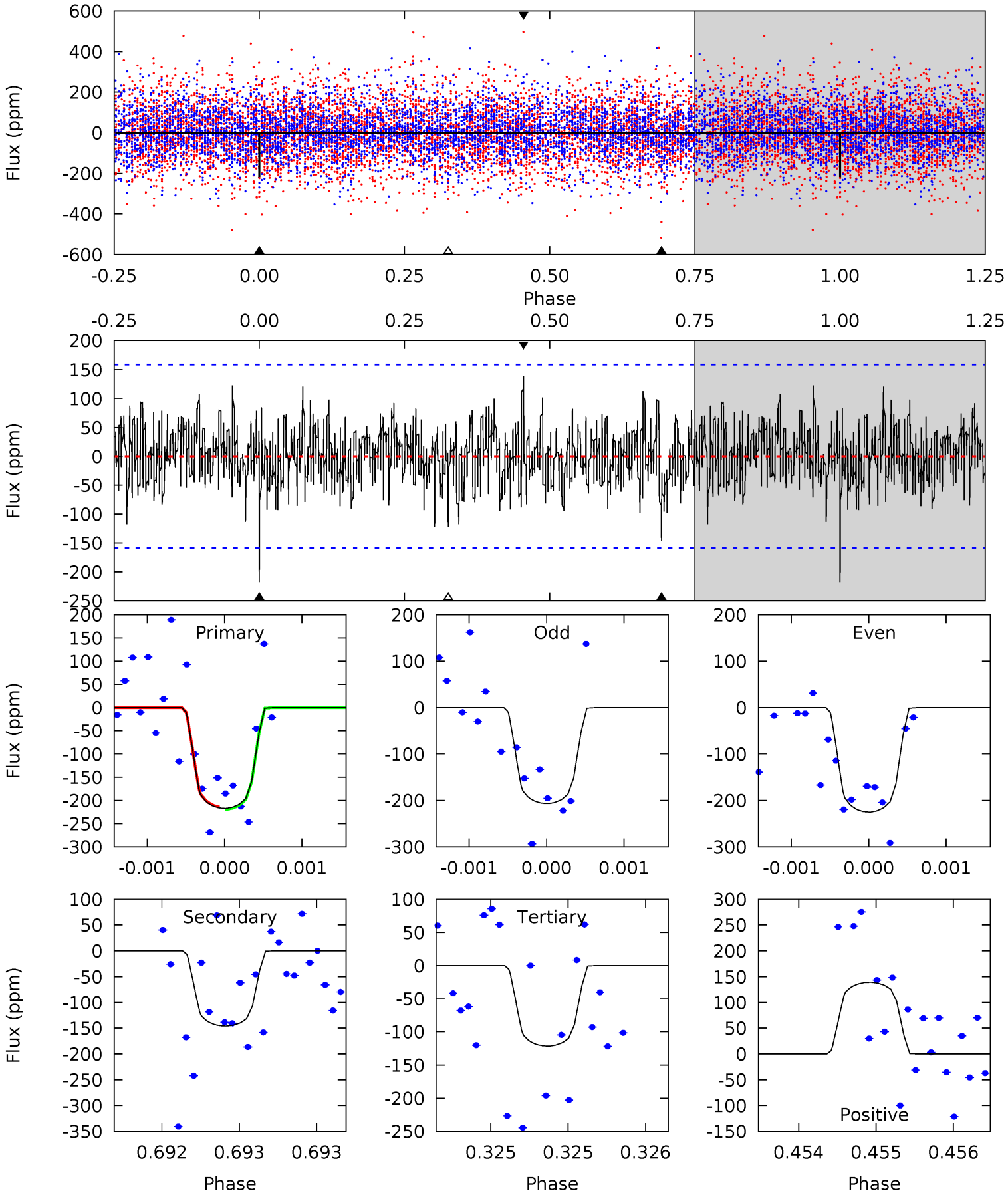
TCE 006367260-07 P=178.735242 Days T_0=133.287832 (BKJD)



DV Model-Shift Uniqueness Test

006367260-07, P = 178.738236 Days, E = 133.271578 Days

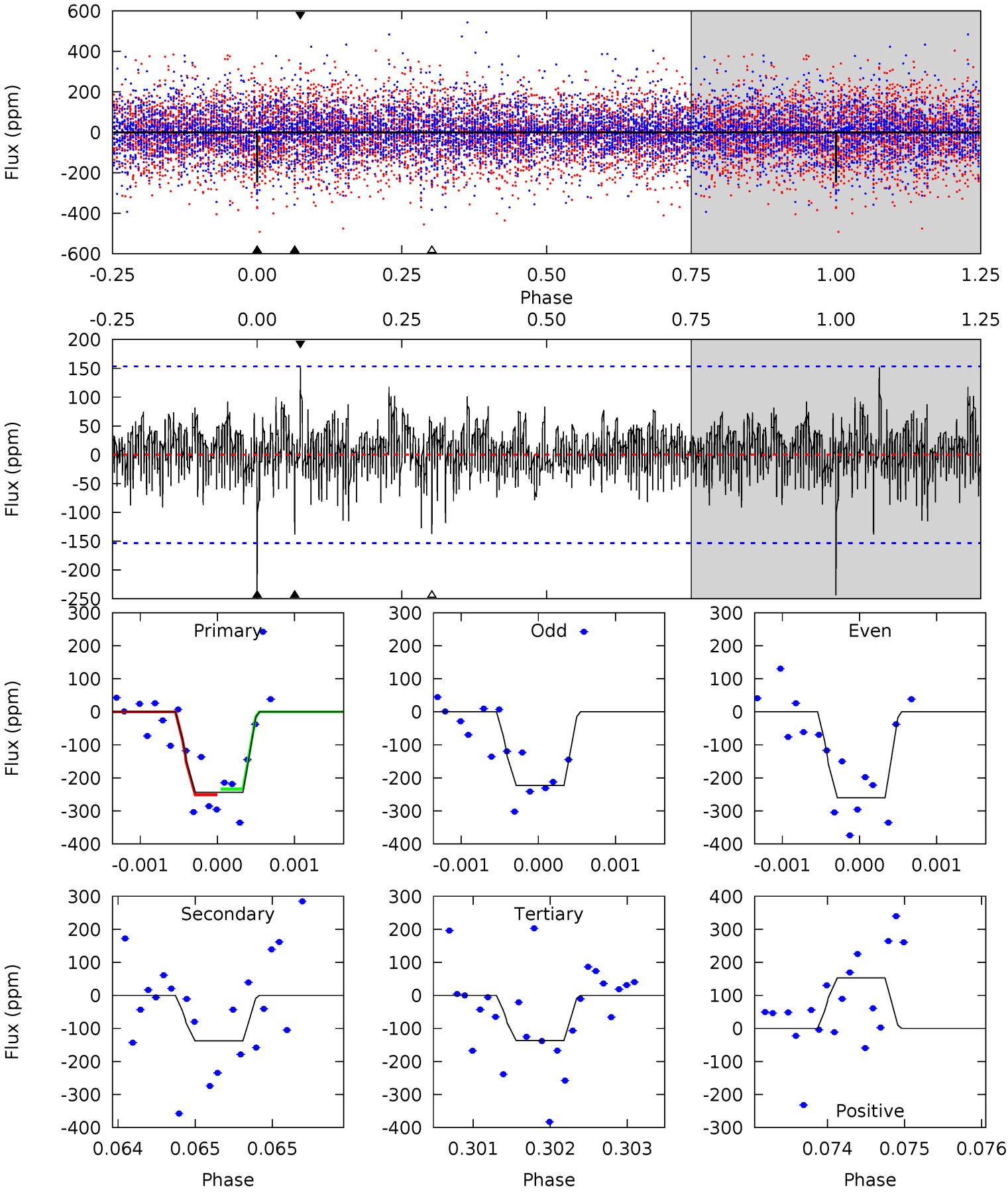
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.56	5.08	4.23	4.84	5.52	3.40	1.38	3.33	2.72	0.85	0.24	0.32	0.97	0.39	0.09



Alt Model-Shift Uniqueness Test

006367260-07, P = 178.735242 Days, E = 133.287832 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.77	4.97	4.93	5.49	5.52	3.39	1.17	3.84	3.27	0.04	-0.53	0.66	0.83	0.39	0.31



Stellar Parameters For KIC 006367260

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-07 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-146±29	$6.18^{+5.10}_{-3.72}$	986^{+77}_{-133}	6118^{+4157}_{-1288}	1229^{+5945}_{-855}
Alt.	-138±28	$5.80^{+4.79}_{-3.85}$	984^{+72}_{-141}	6201^{+6548}_{-1363}	1306^{+10553}_{-907}

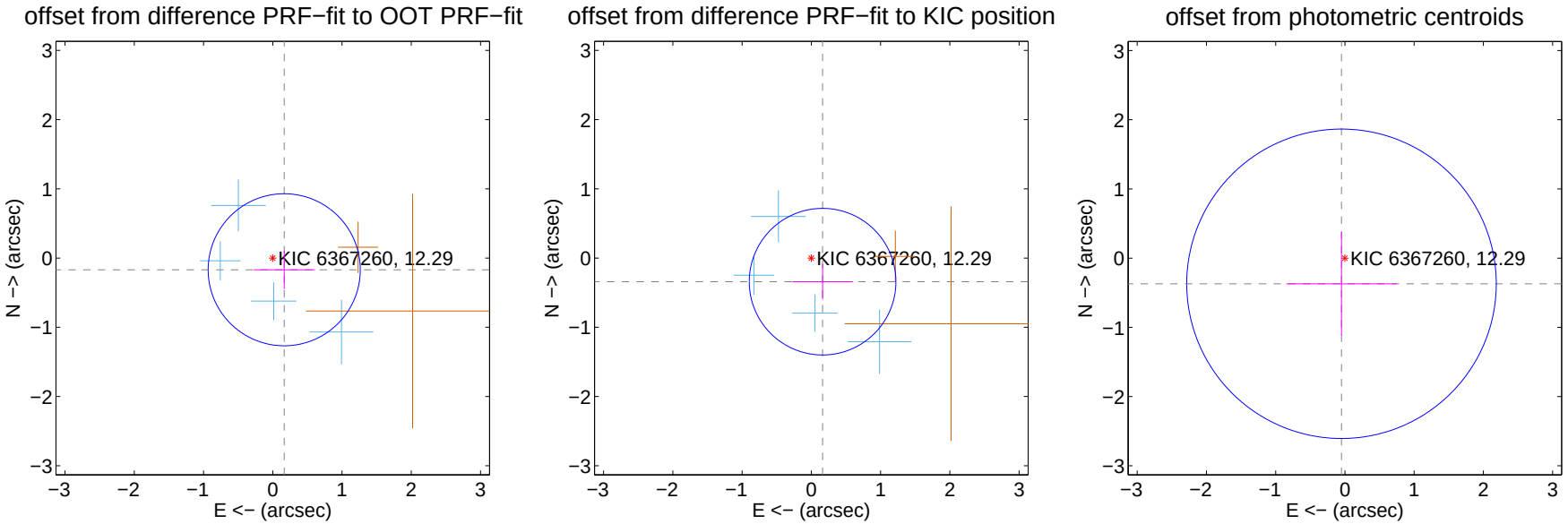
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

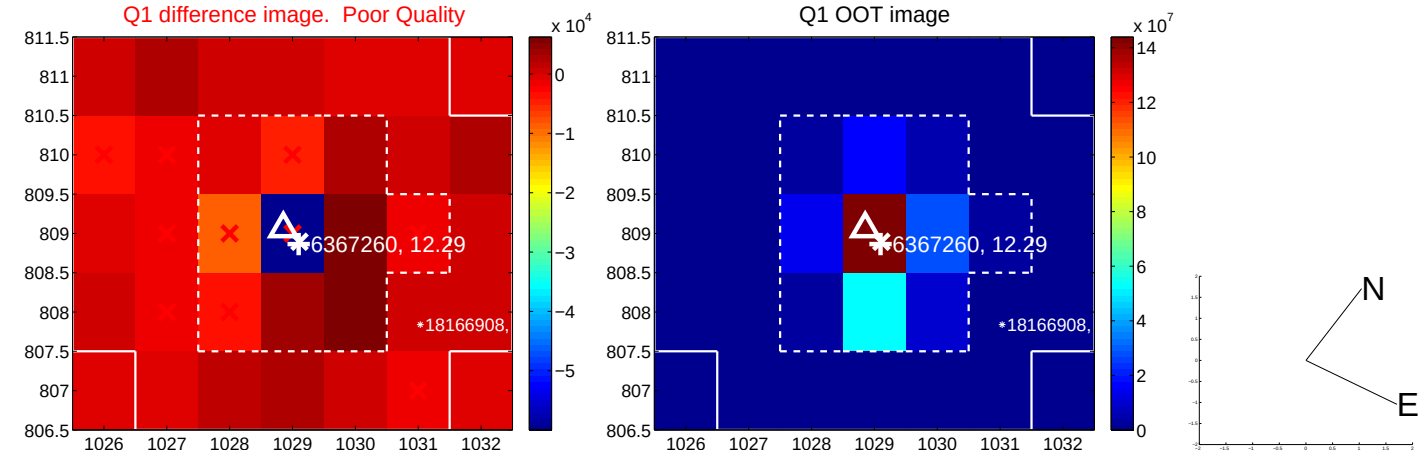
Supplemental centroid analysis for 006367260-07. Kepler magnitude: 12.29. Transit SNR 10.48
There are 4 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

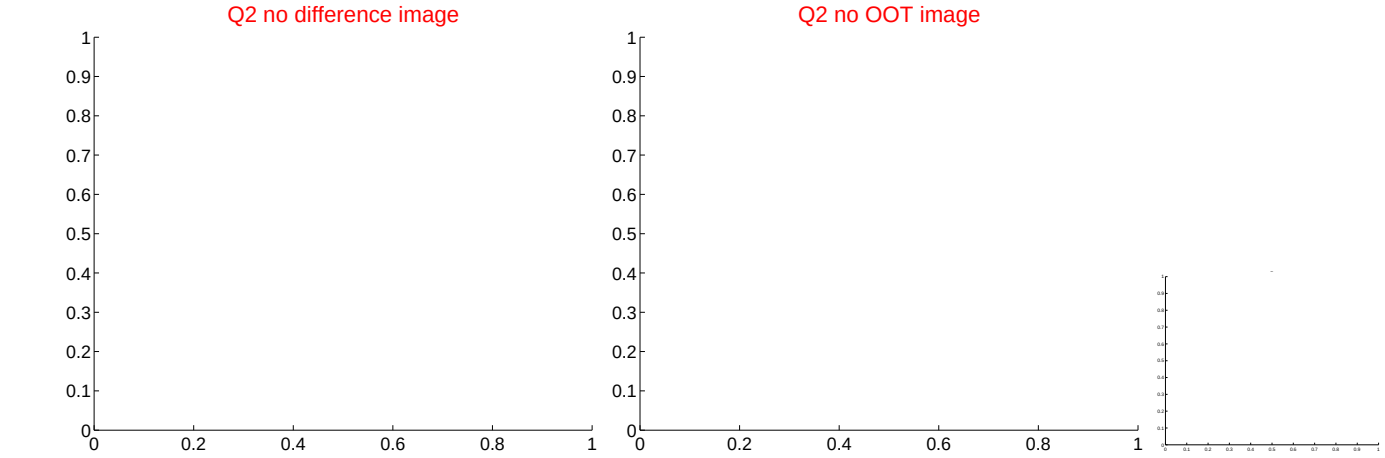
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.236 ± 0.366	0.65	-0.165 ± 0.439	-0.169 ± 0.279
PRF-fit source offset from KIC position	0.378 ± 0.353	1.07	-0.162 ± 0.437	-0.341 ± 0.257
photometric centroid source offset	0.37 ± 0.75	0.50	0.05 ± 0.80	-0.37 ± 0.74

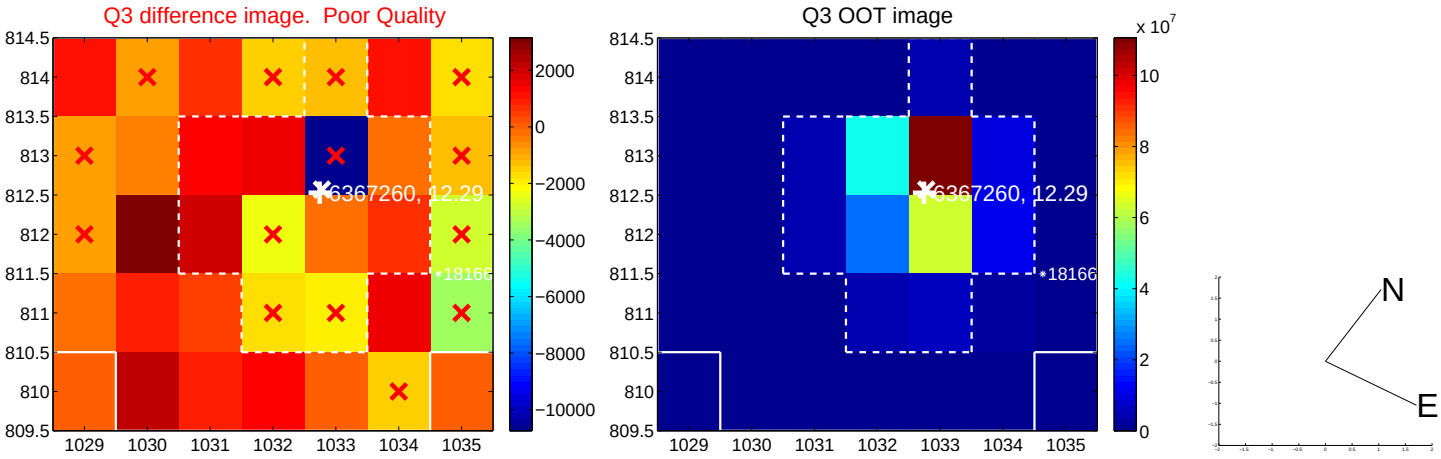


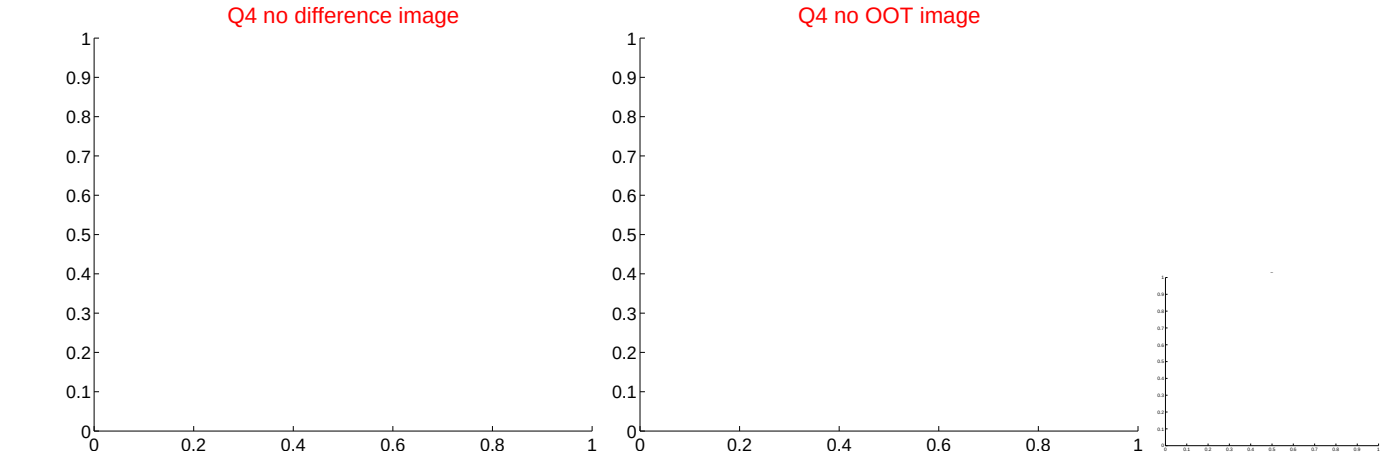
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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









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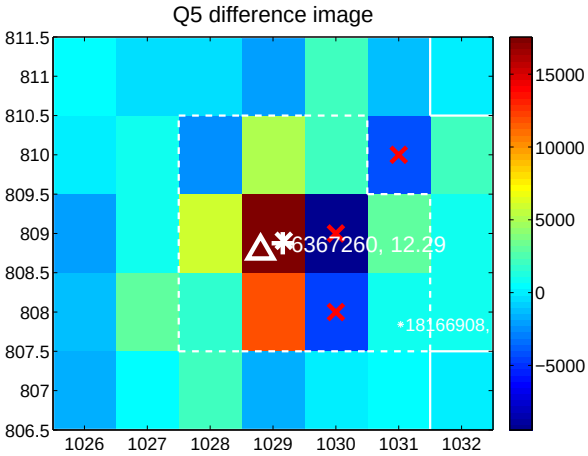

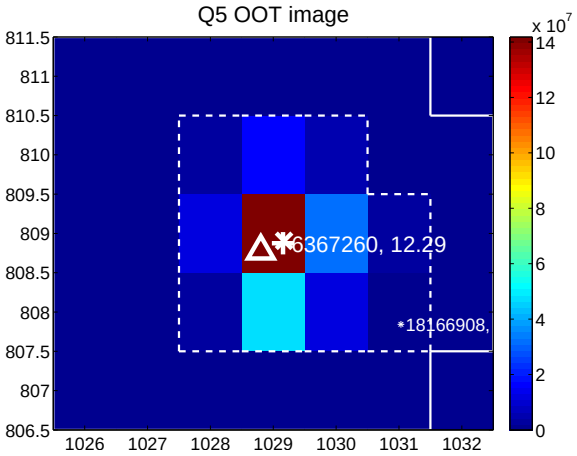

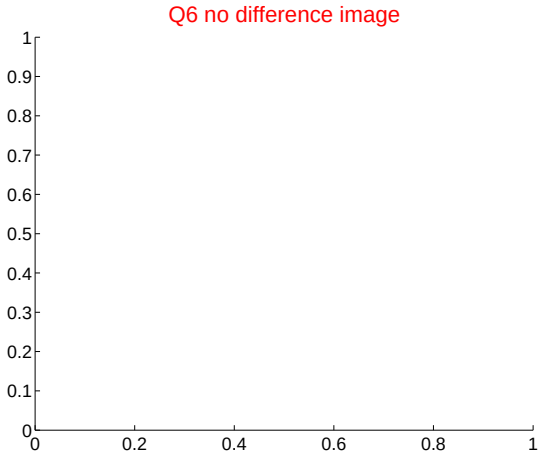

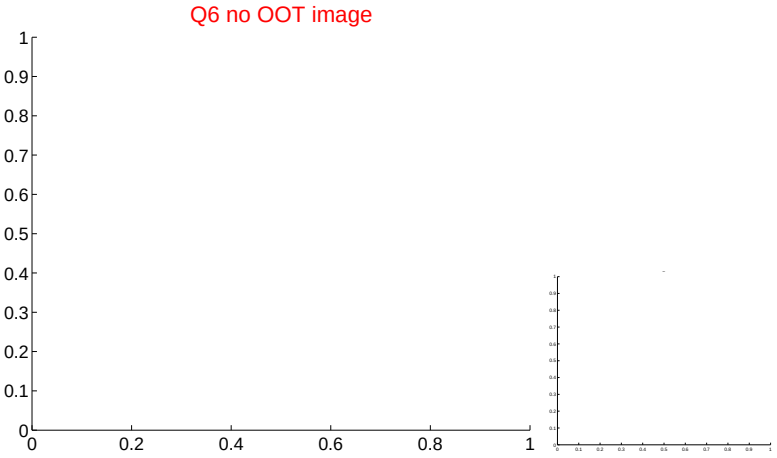

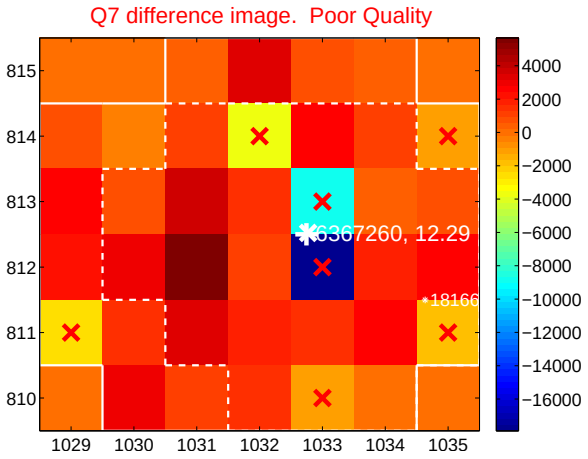

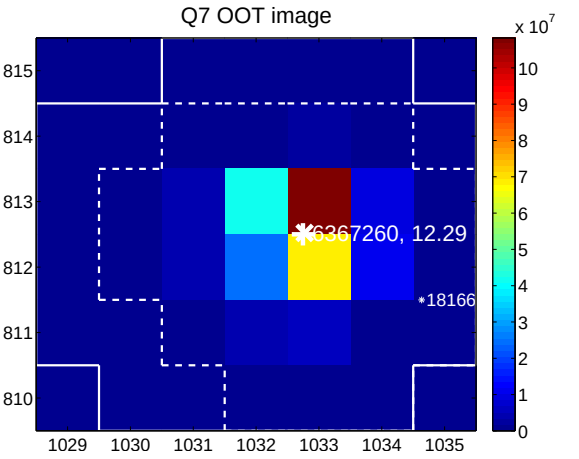

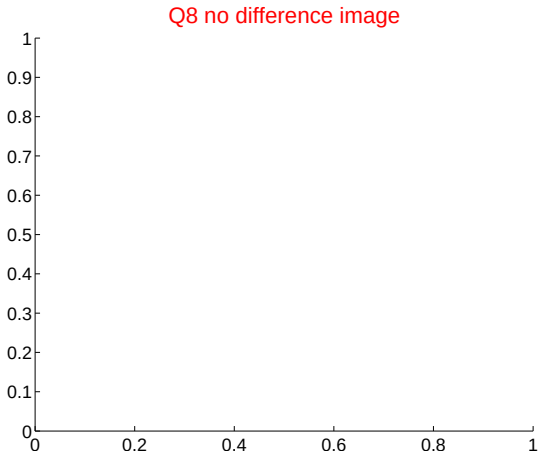

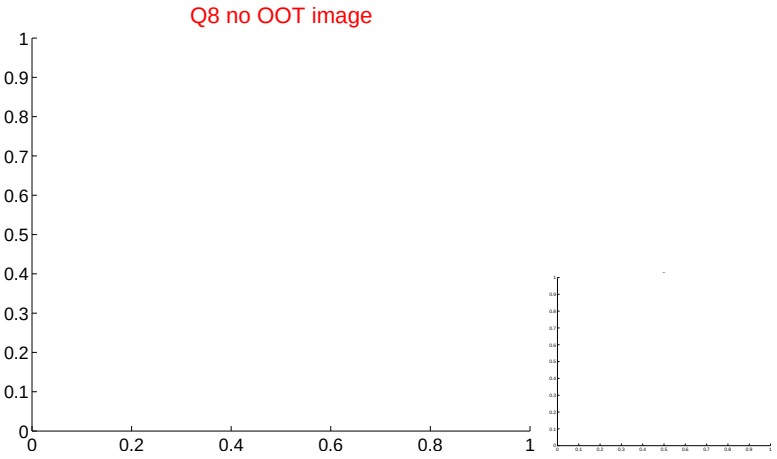

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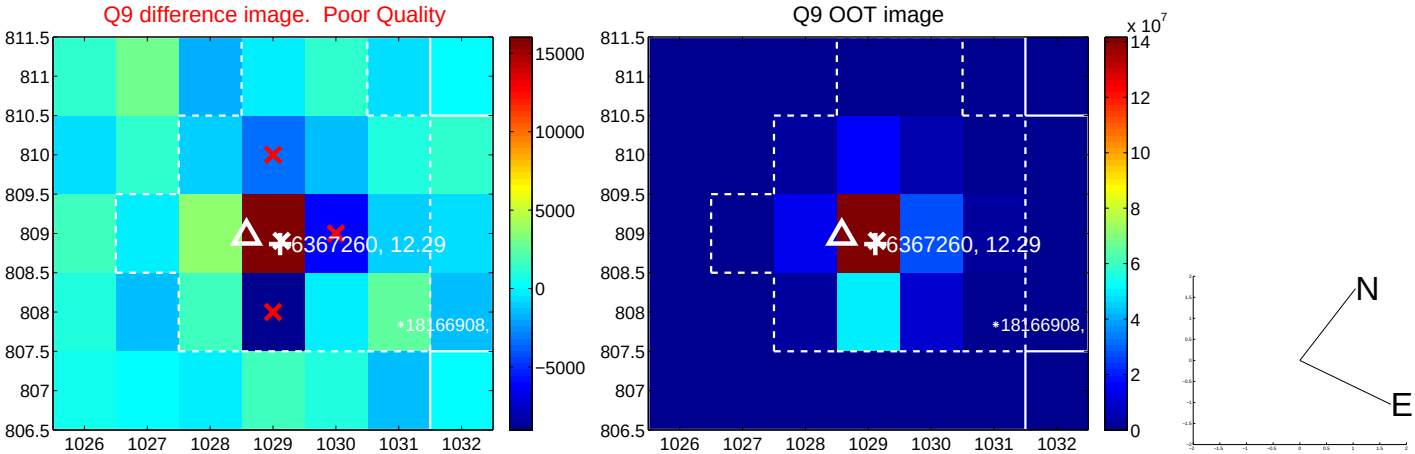

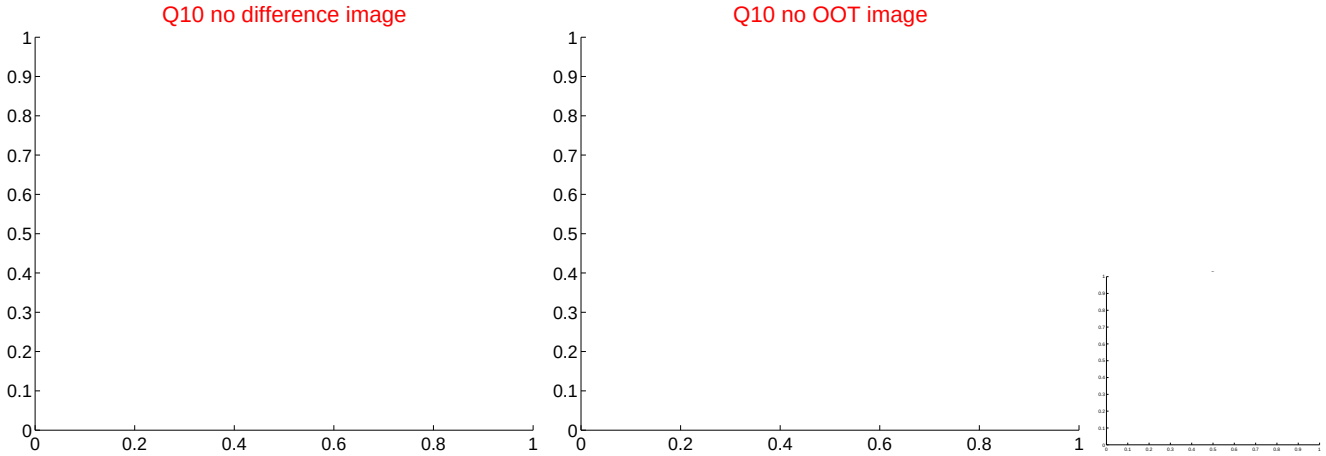

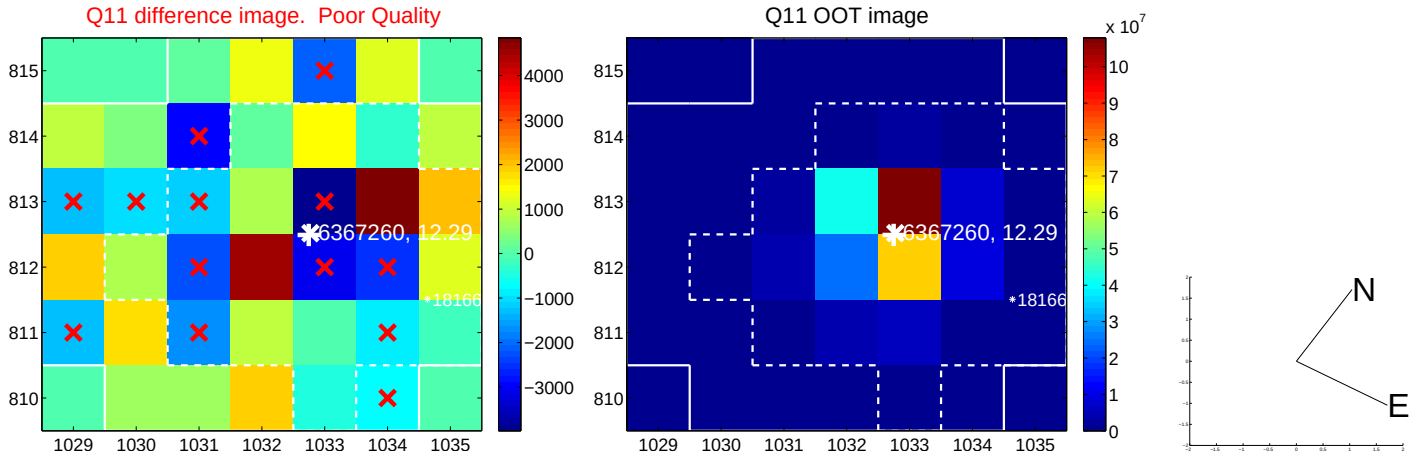

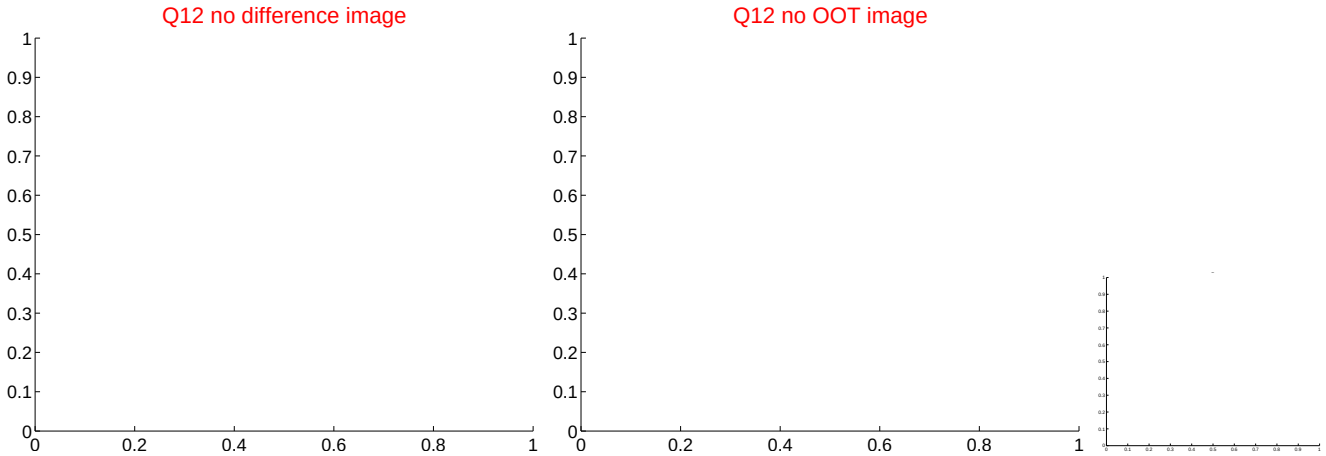

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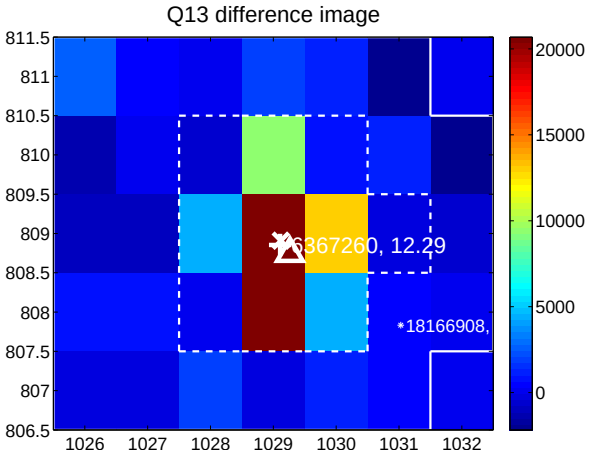

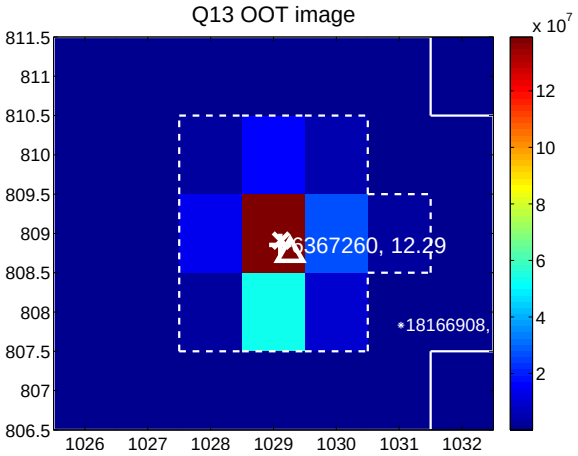

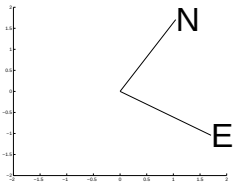

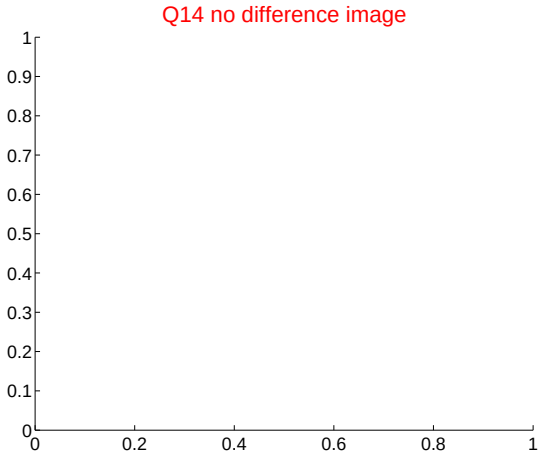

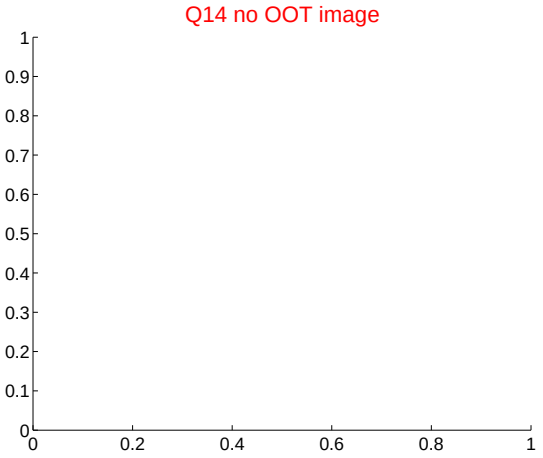

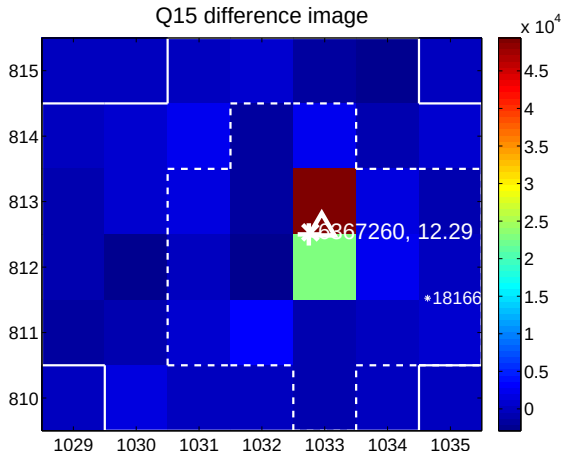

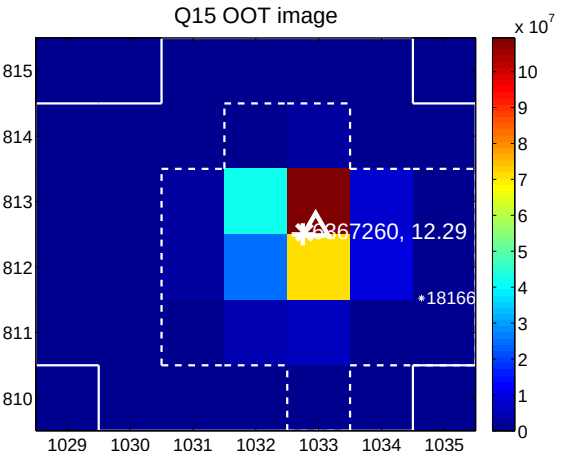

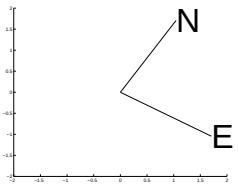

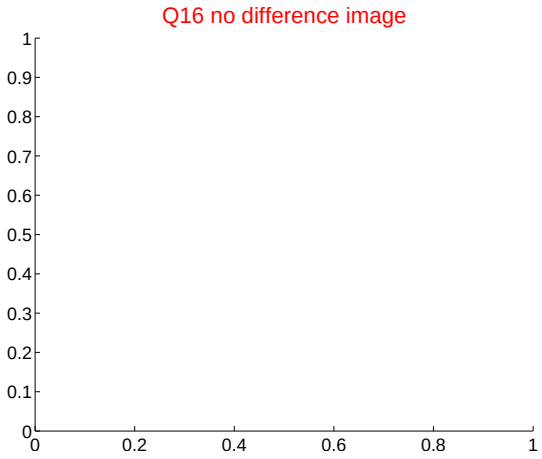

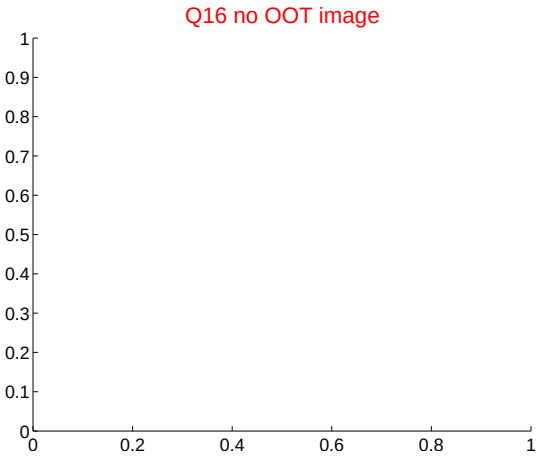

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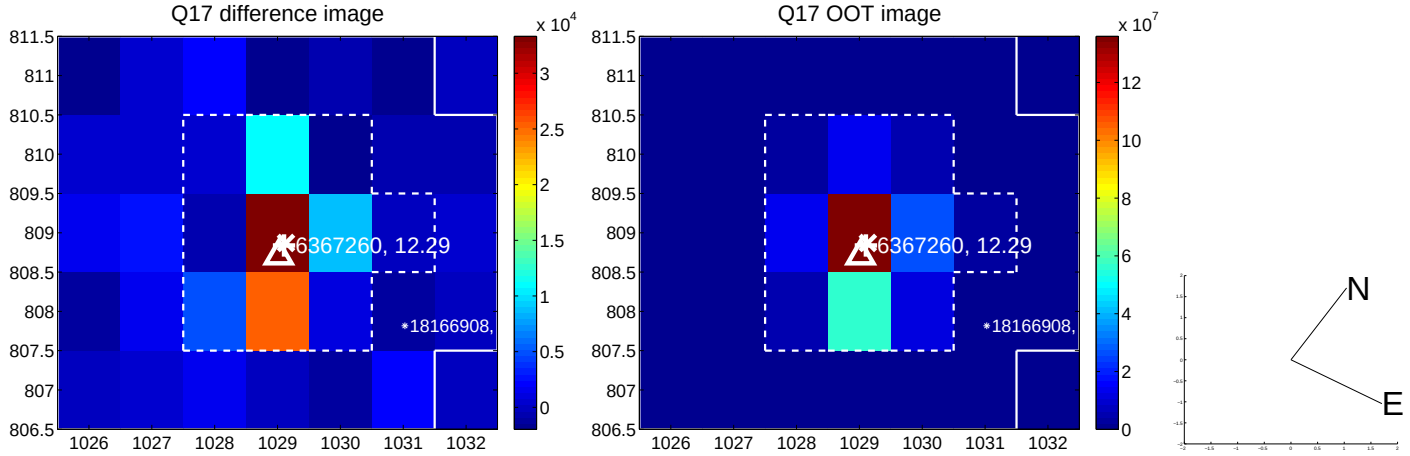
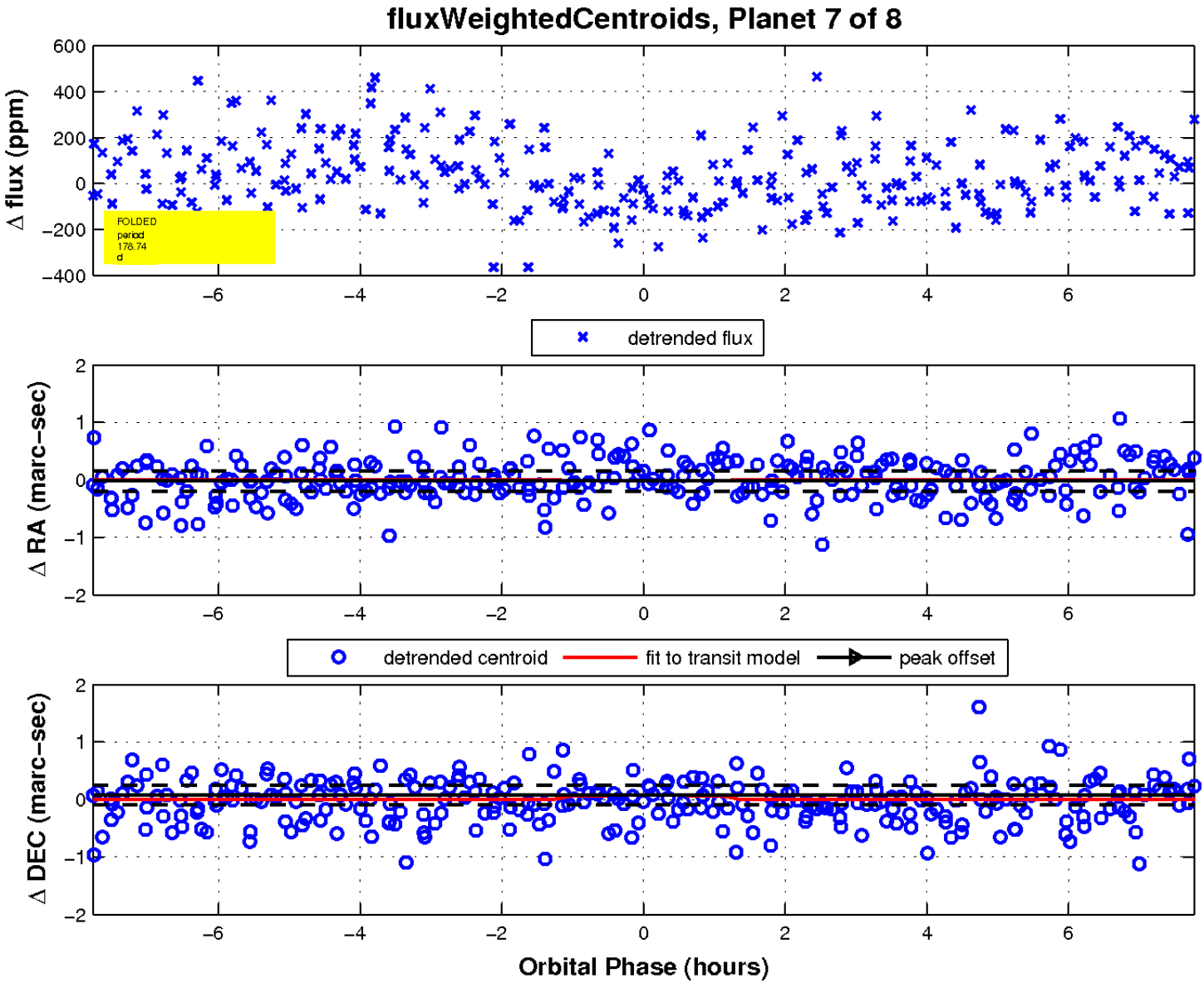
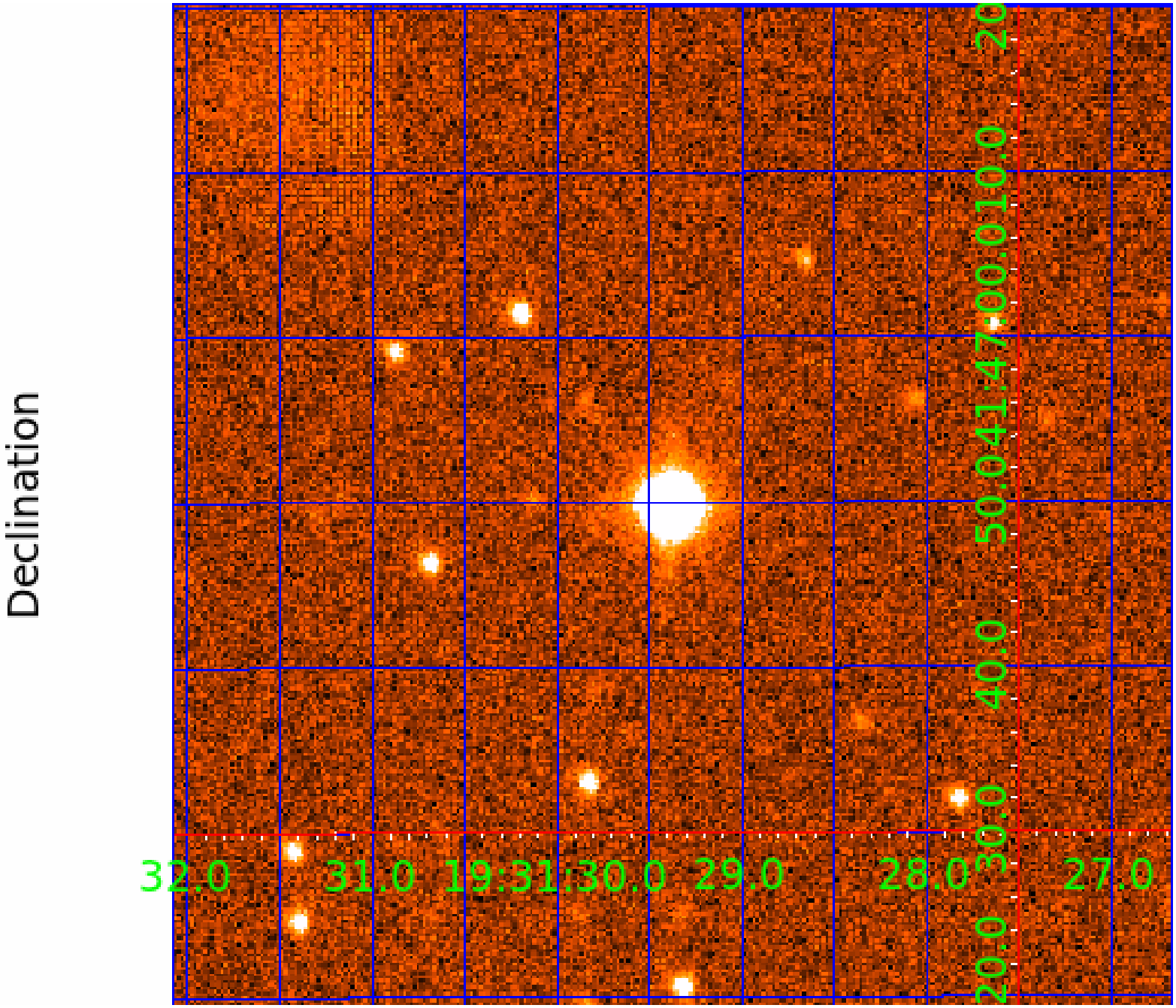




UKIRT Image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KIC 006367260

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 ($S_\oplus$)
006367260-01	OBS	No	0.831545	131.870369	236.8	1.500	12.9	-1.0	3.85	7575	5.96	91652.09
006367260-02	OBS	No	0.831470	131.843212	11.3	5.630	8.8	5.0	3.85	7575	1.37	91663.21
006367260-03	OBS	No	46.180445	176.343994	253.9	3.128	12.0	10.5	3.85	7575	12.09	432.56
006367260-04	OBS	No	59.227727	178.131855	277.9	2.935	11.9	12.7	3.85	7575	7.51	310.43
006367260-05	OBS	No	47.957798	147.471321	245.8	1.725	11.2	9.1	3.85	7575	7.12	411.32
006367260-06	OBS	No	11.320799	139.570978	154.5	1.567	10.0	11.4	3.85	7575	7.70	2819.38
006367260-07	OBS	No	178.738236	133.271578	228.1	2.615	9.2	10.5	3.85	7575	6.83	71.18
006367260-08	OBS	No	59.705053	135.263957	270.9	2.011	10.1	11.0	3.85	7575	7.26	307.12

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006367260-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS
006367260-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
006367260-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_POS_ALT
006367260-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
006367260-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

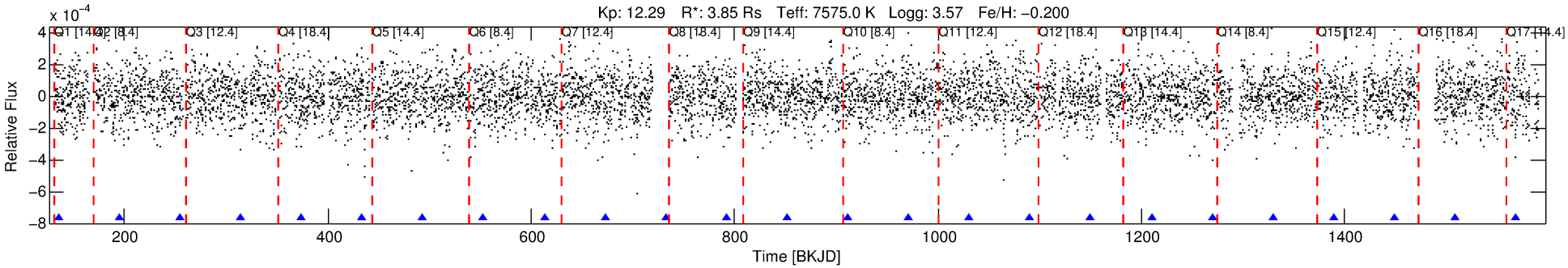
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

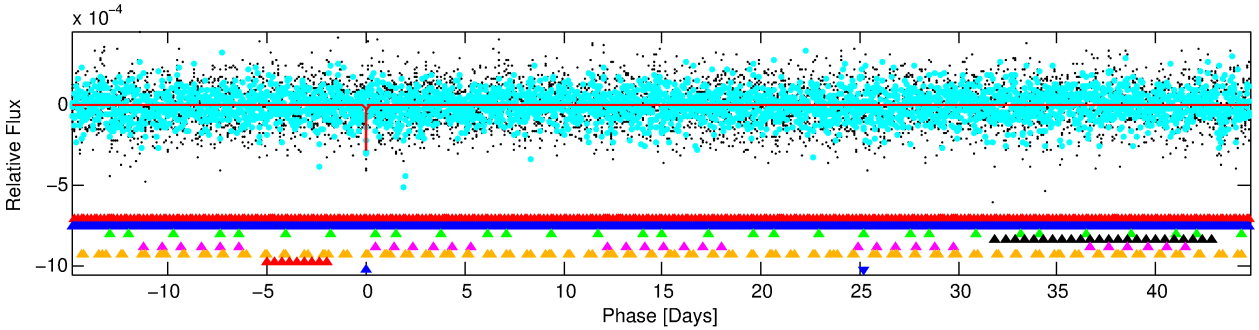
Ephemeris Match Information For 006367260-08

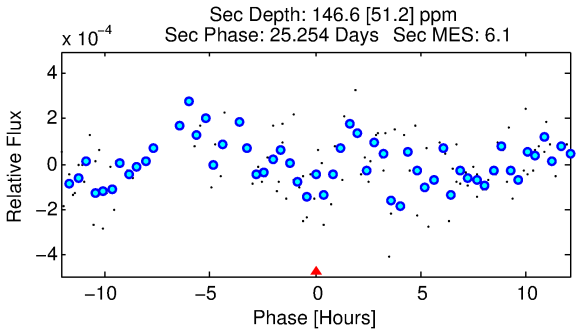
No Significant Match Found

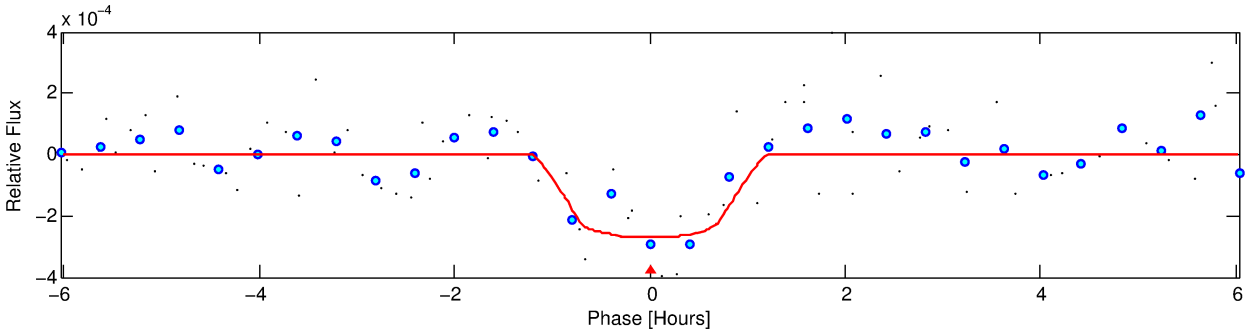
DV One-Page Summary

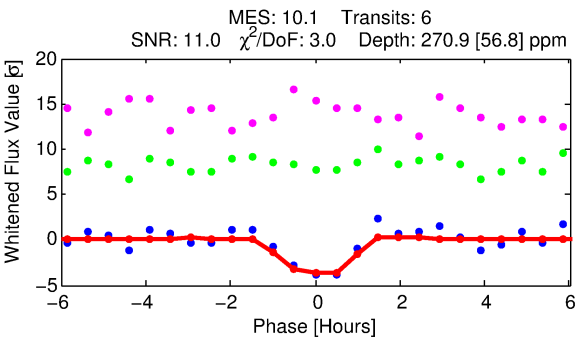
KIC: 6367260 Candidate: 8 of 8 Period: 59.705 d

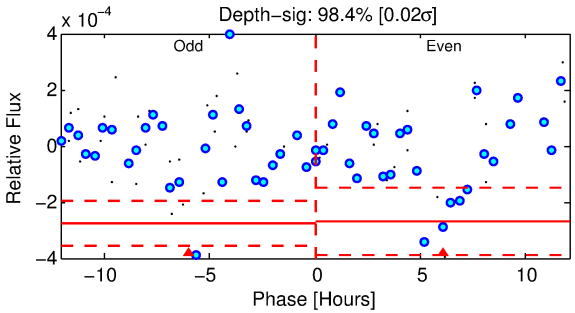


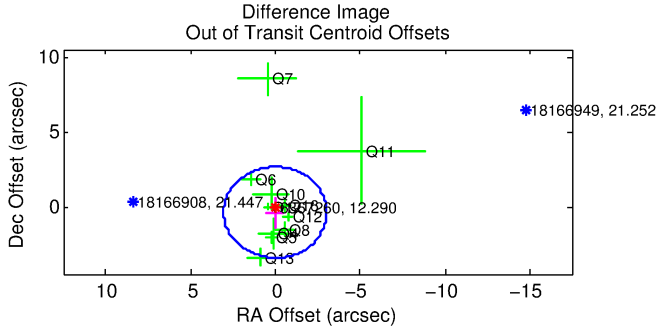












DV Fit Results:

Period = 59.70505 [0.00065] d
Epoch = 135.2640 [0.0112] BKJD
Rp/R* = 0.0173 [0.0307]
a/R* = 122.19 [1139.14]
b = 0.86 [2.82]

Seff = 307.12 [292.46]
Teq = 1067 [254] K
Rp = 7.26 [13.56] Re
a = 0.3772 [0.2164] AU

Ag = 217.96 [805.68] [0.27σ]
Teffp = 6341 [5675] K [0.93σ]

DV Diagnostic Results:

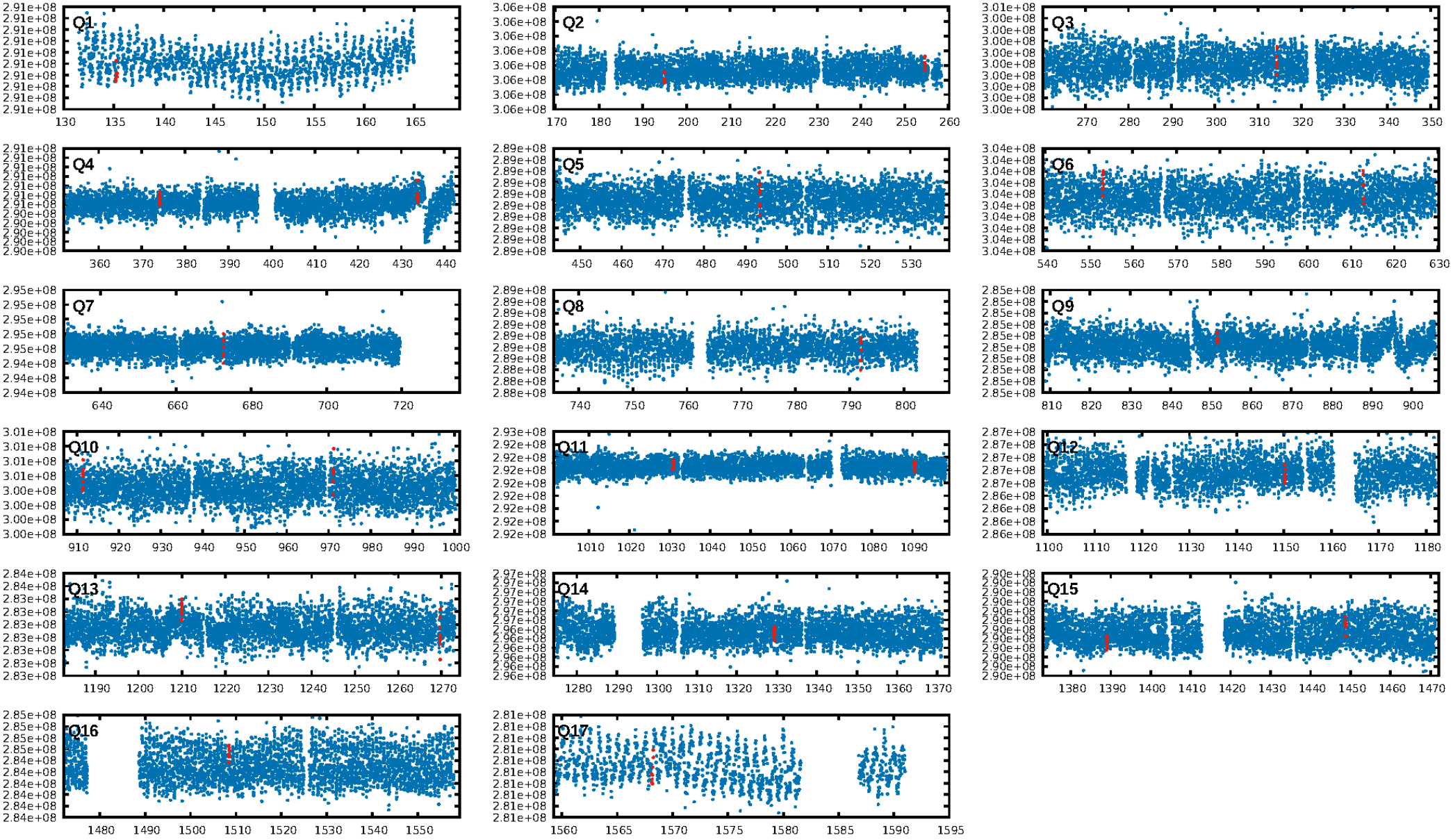
ShortPeriod−sig: 99.9% [3.22σ]
LongPeriod−sig: 100.0% [866.01σ]
ModelChiSquare2−sig: 0.2%
ModelChiSquareGof−sig: 82.1%
Bootstrap−pfa: 2.29e−08
RollingBand−fgt: 1.00 [5/5]
GhostDiagnostic−chr: −0.805

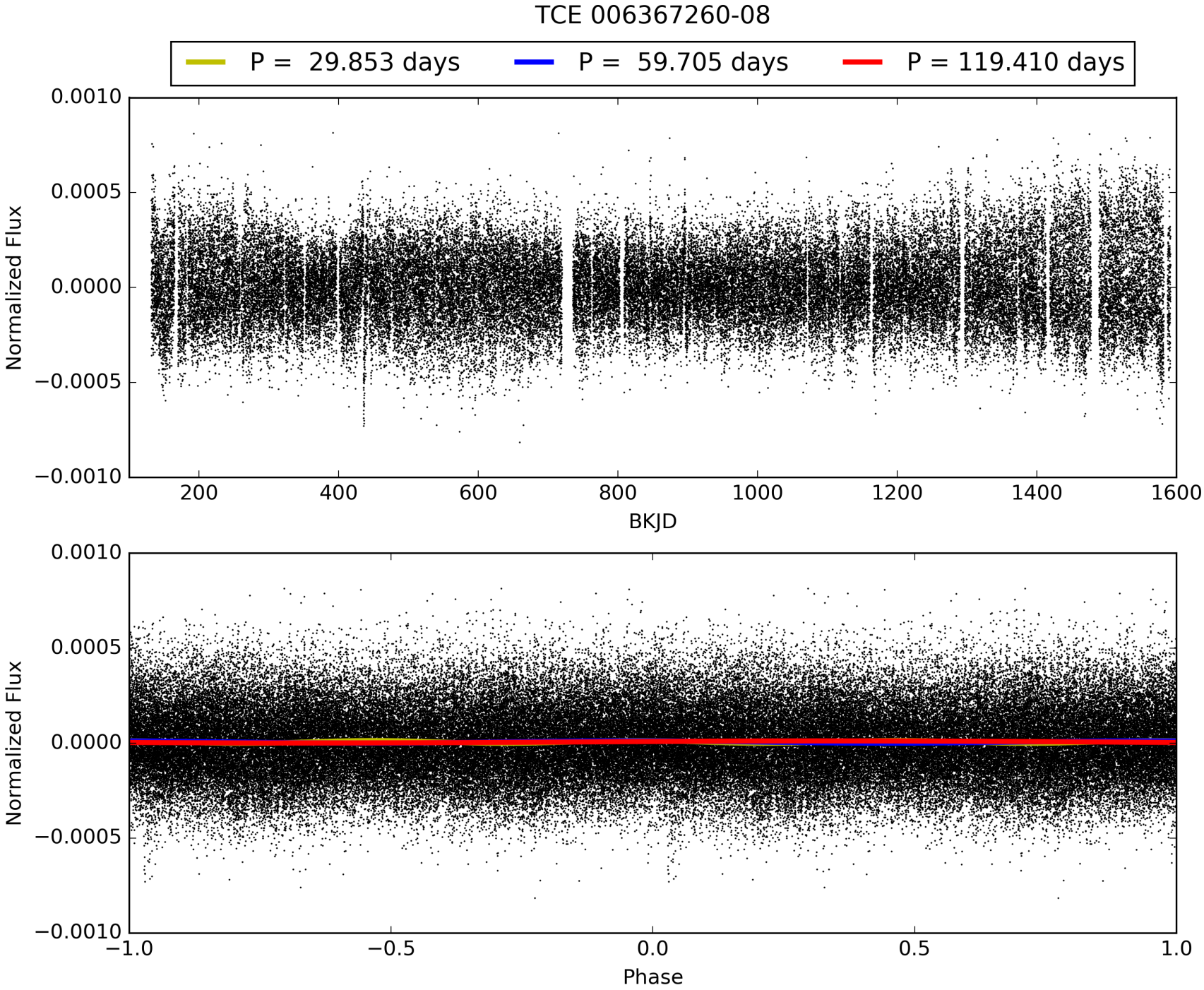
Centroid−sig: 85.2%
Centroid−so: 0.167 arcsec [0.42σ]
OotOffset−rm: 0.388 arcsec [0.38σ]
KicOffset−rm: 0.514 arcsec [0.52σ]
OotOffset−st: 2/2/4/3 [11]
KicOffset−st: 2/2/4/3 [11]
DiffImageQuality−fgm: 0.27 [3/11]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 03−Feb−2016 09:06:15 Z

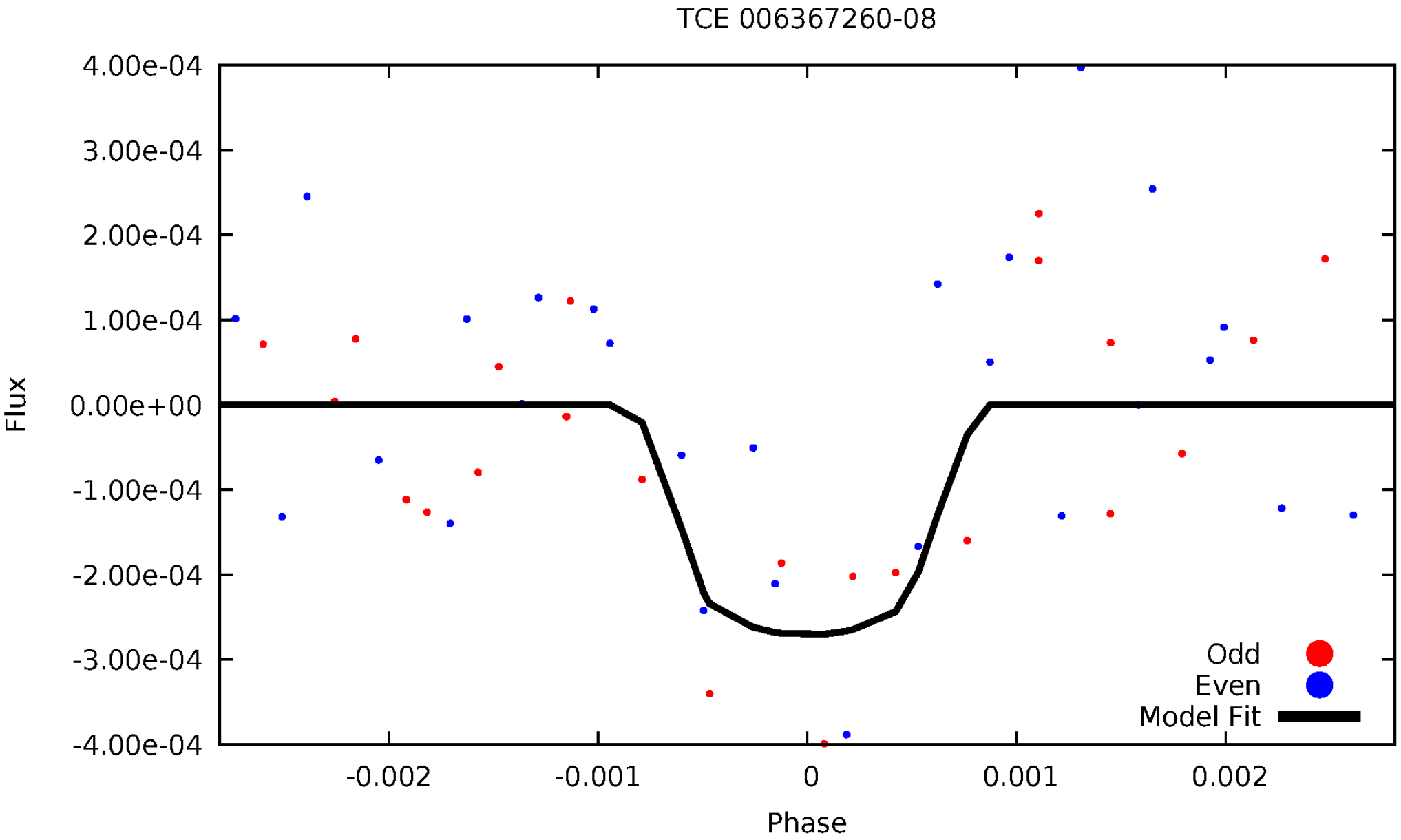
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

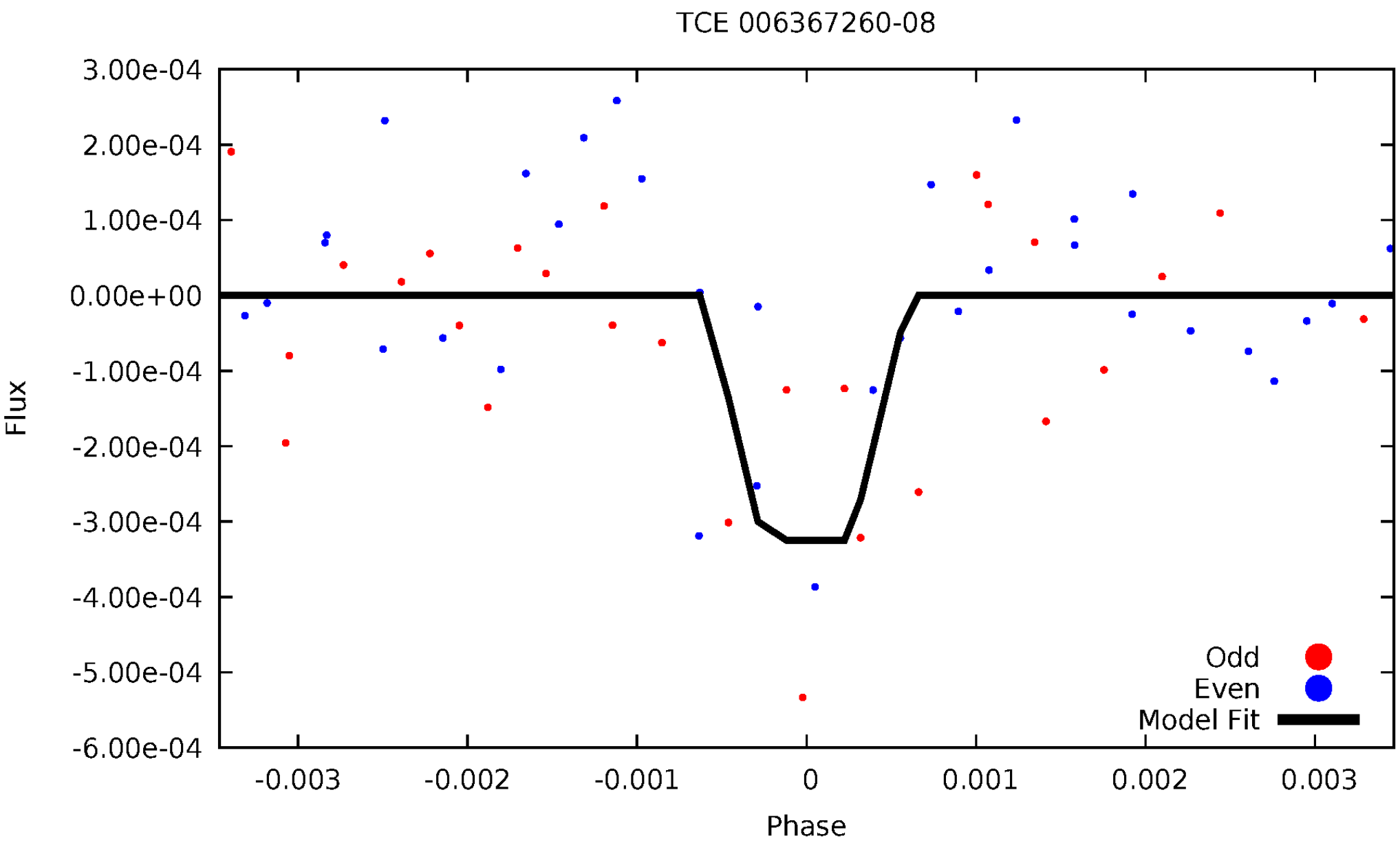
TCE 006367260-08, PDC Light Curves



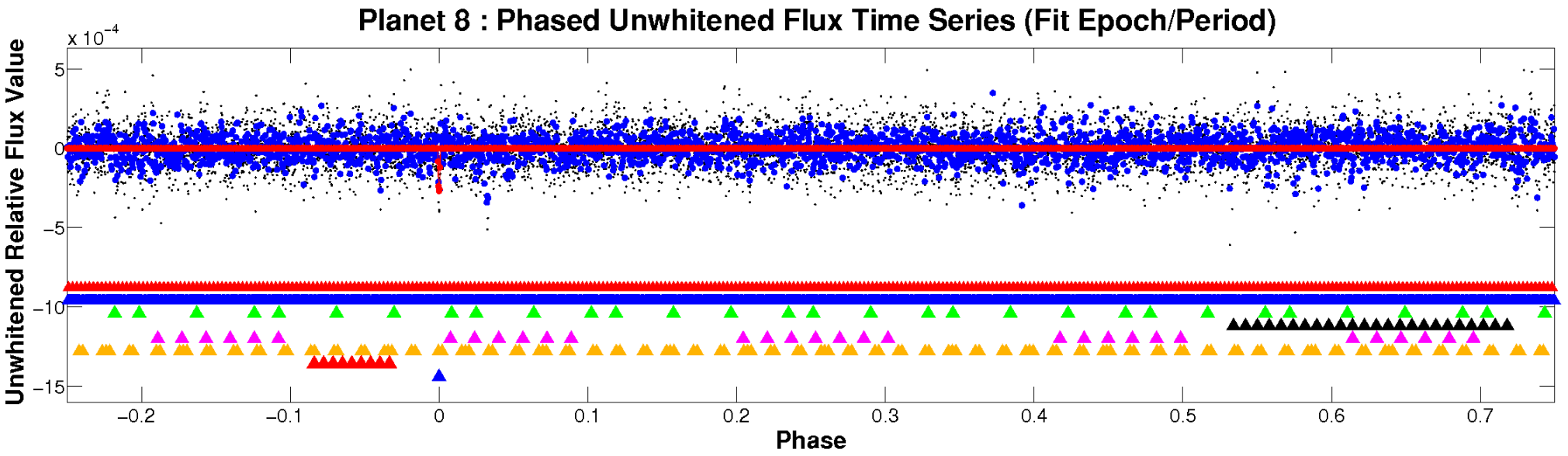

TCE 006367260-08
P = 29.853 days
P = 59.705 days
P = 119.410 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

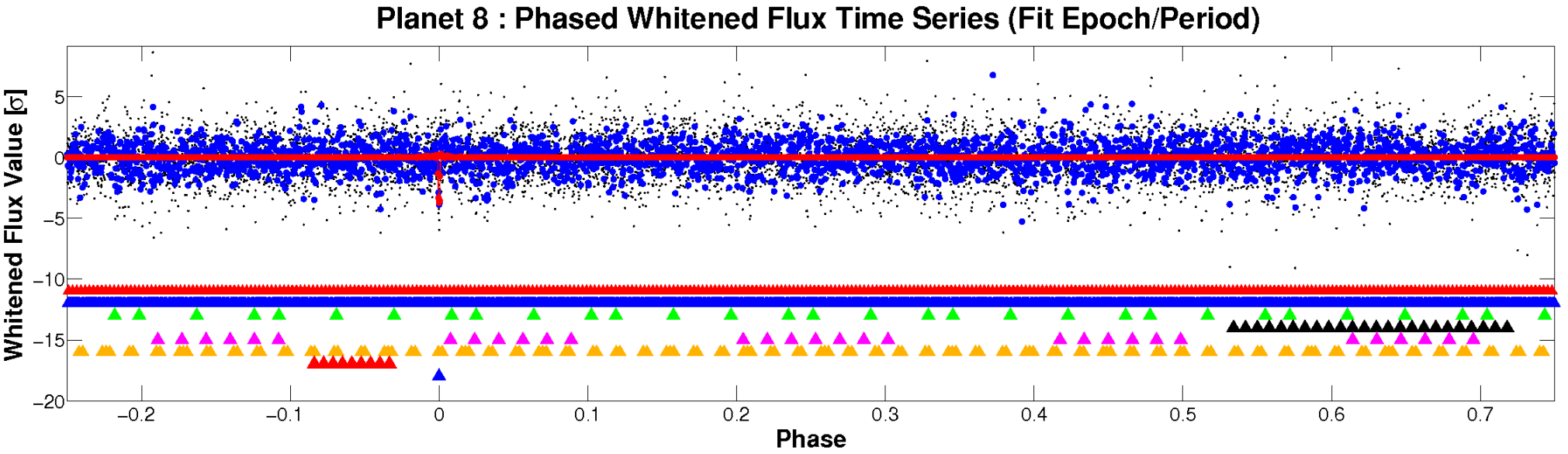
DV Odd/Even


TCE 006367260-08
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
Flux
-0.002
-0.001
0
0.001
0.002
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 006367260-08
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
-6.00e-04
Flux
-0.003
-0.002
-0.001
0
0.001
0.002
0.003
Phase
Odd
Even
Model Fit

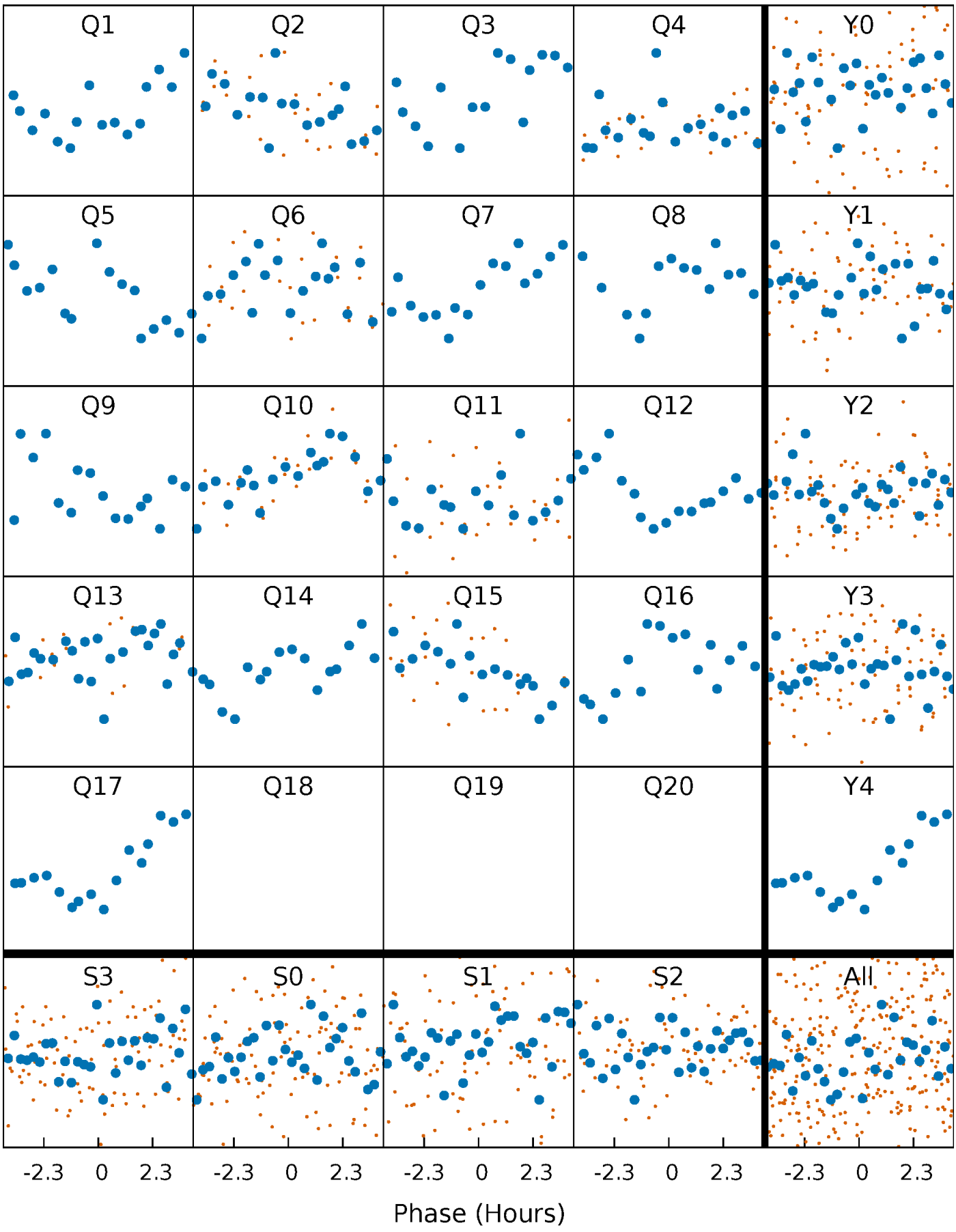
Non-Whitened Vs. Whitened Light Curve





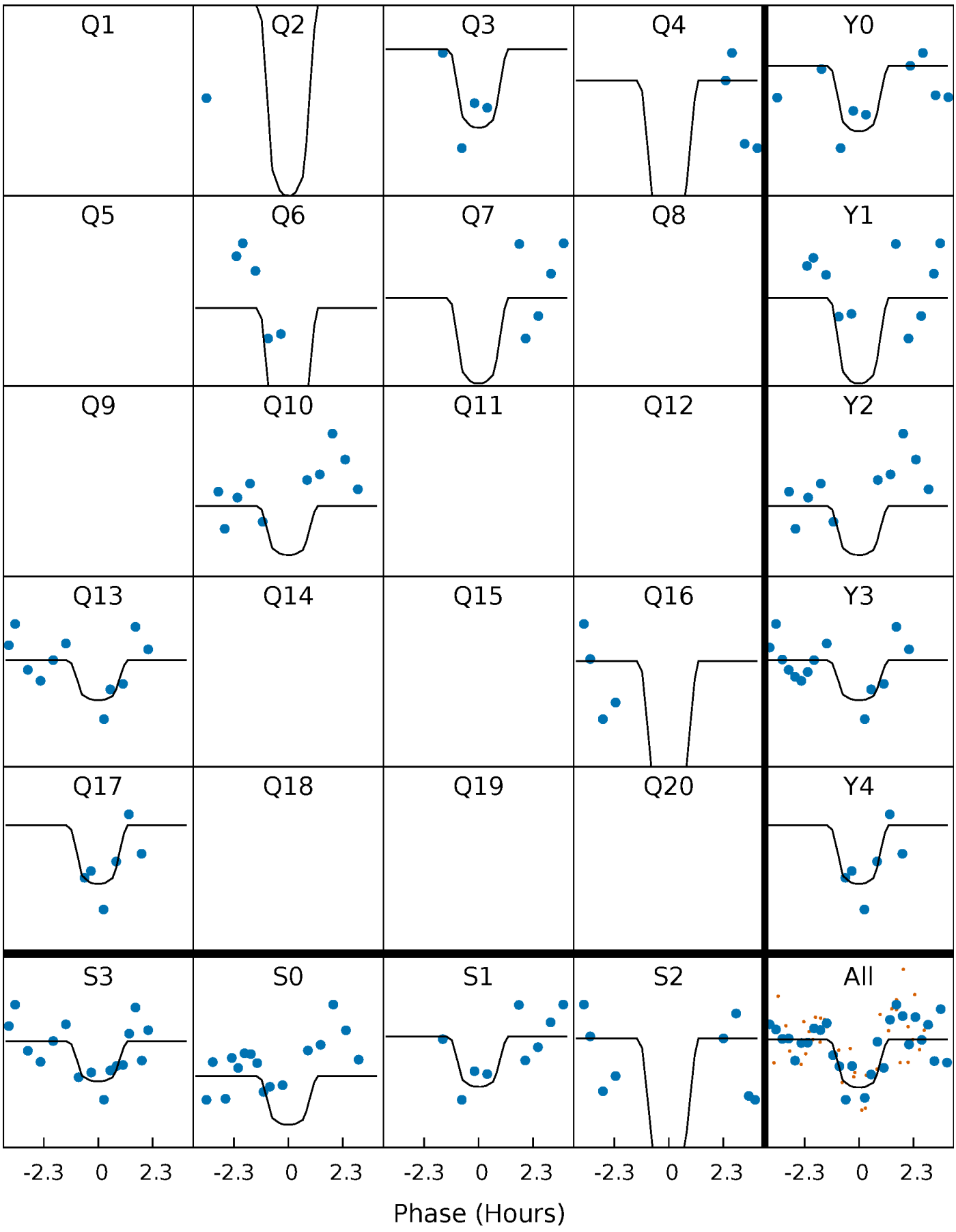
PDC Quarter-Phased Transit Curves

TCE 006367260-08 P= 59.705053 Days T_0=135.263957 (BKJD)



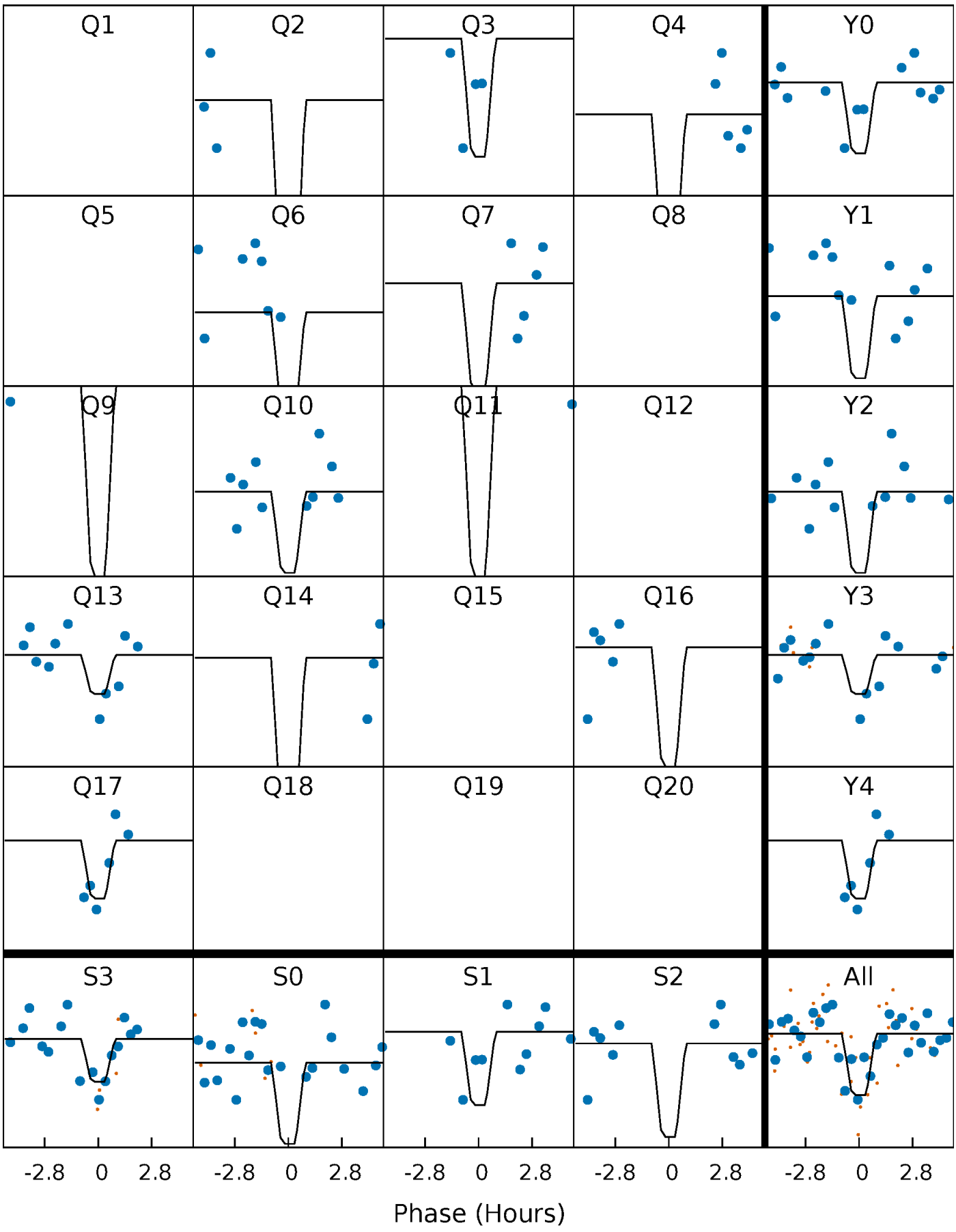
DV Quarter-Phased Transit Curves

TCE 006367260-08 P= 59.705053 Days T_0=135.263957 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

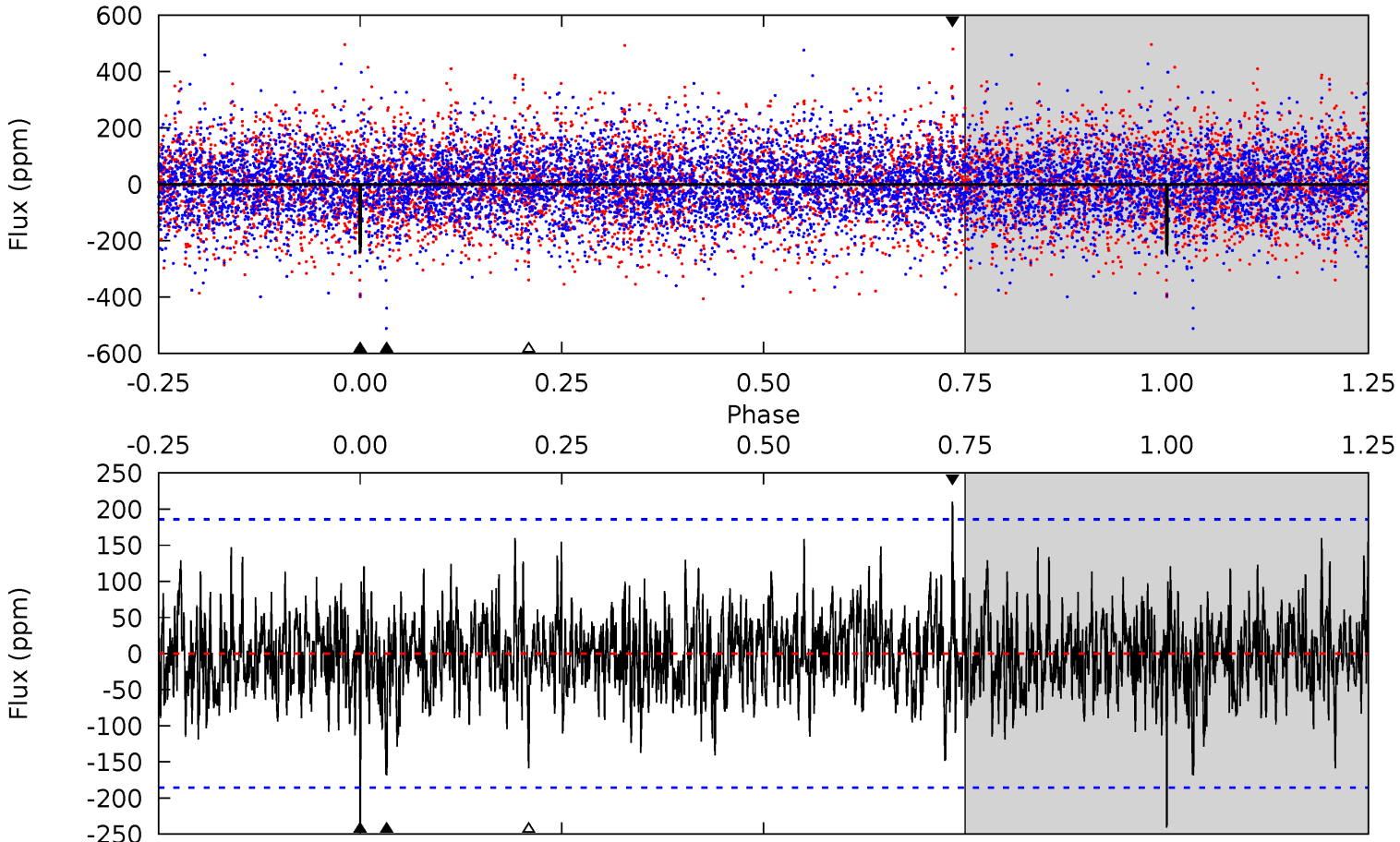
TCE 006367260-08 P= 59.705463 Days T_0=135.262427 (BKJD)

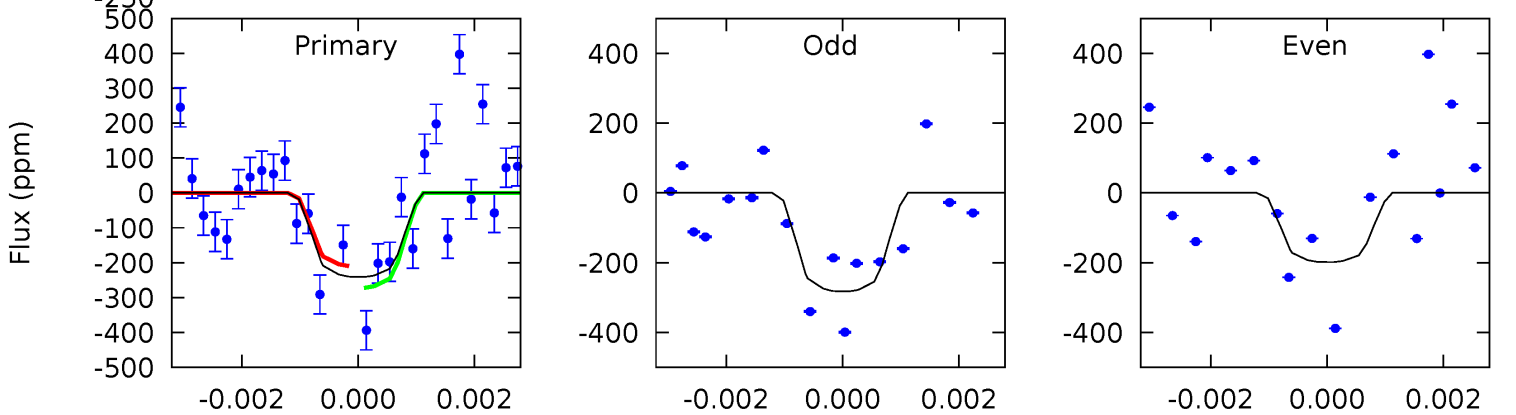


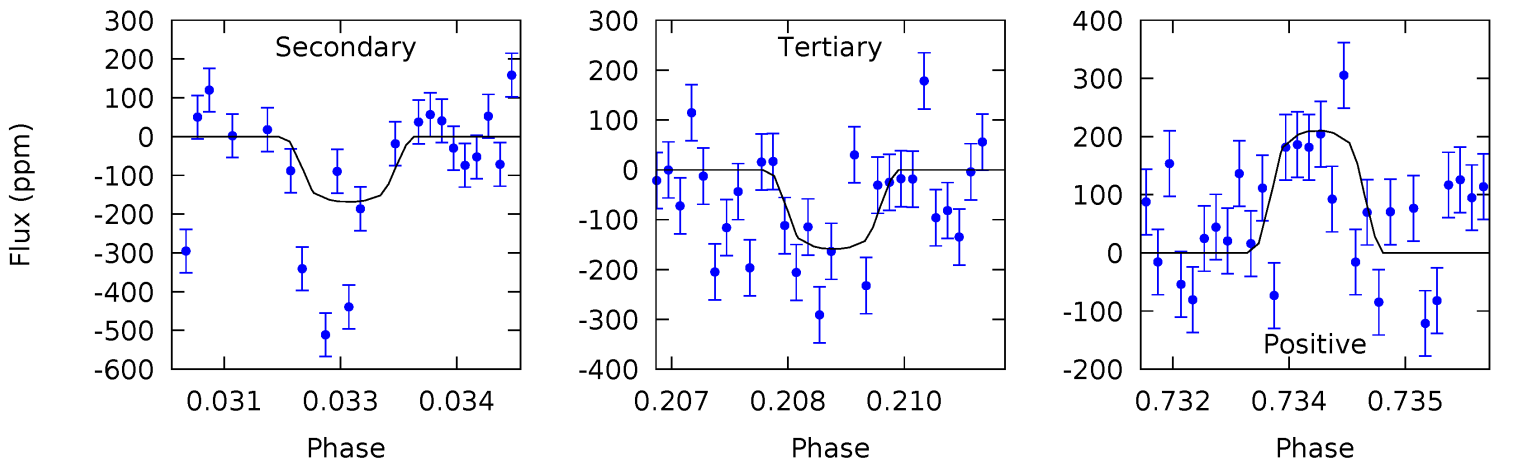
DV Model-Shift Uniqueness Test

006367260-08, P = 59.705053 Days, E = 75.558904 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.97	4.87	4.58	6.07	5.37	3.16	1.34	2.38	0.90	0.28	-1.20	1.20	0.86	0.47	0.91



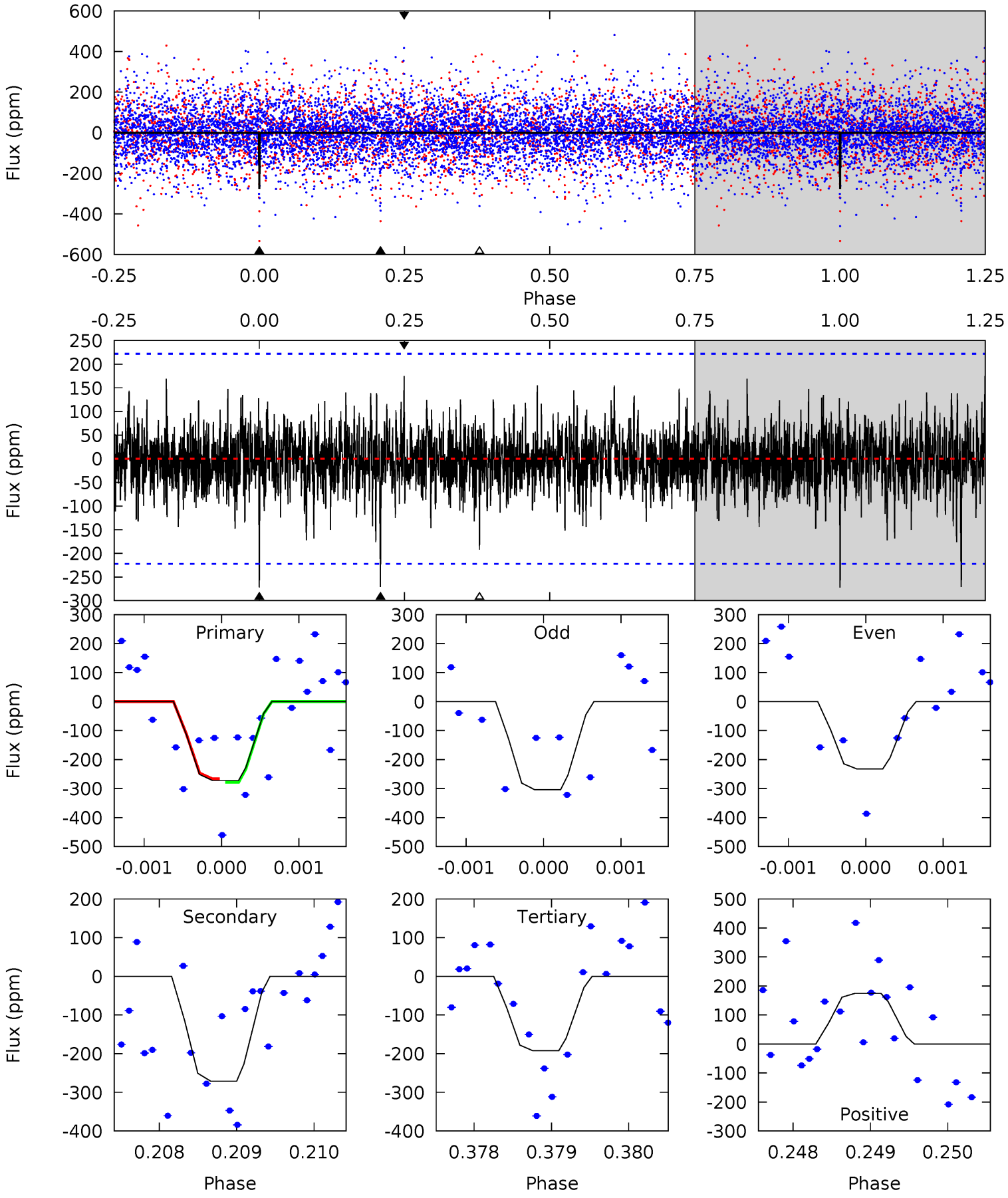




Alt Model-Shift Uniqueness Test

006367260-08, P = 59.705463 Days, E = 75.556964 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.68	6.65	4.72	4.29	5.45	3.29	1.19	1.96	2.39	1.93	2.37	0.88	1.02	0.39	0.15



Stellar Parameters For KIC 006367260

	$T_{eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	7575^{+209}_{-314}	$3.570^{+0.558}_{-0.062}$	$-0.200^{+0.200}_{-0.300}$	$3.849^{+0.518}_{-2.203}$	$2.010^{+0.095}_{-0.539}$	$0.050^{+0.350}_{-0.010}$
	+3%/-4%	+16%/-2%	+100%/-150%	+13%/-57%	+5%/-27%	+705%/-20%
Source	KIC0	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 006367260-08 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-168±35	$10.28^{+11.02}_{-6.92}$	1428^{+110}_{-223}	5012^{+4133}_{-1118}	120^{+976}_{-93}
Alt.	-271±41	$10.54^{+10.07}_{-7.12}$	1418^{+113}_{-192}	5518^{+4914}_{-1269}	181^{+1543}_{-133}

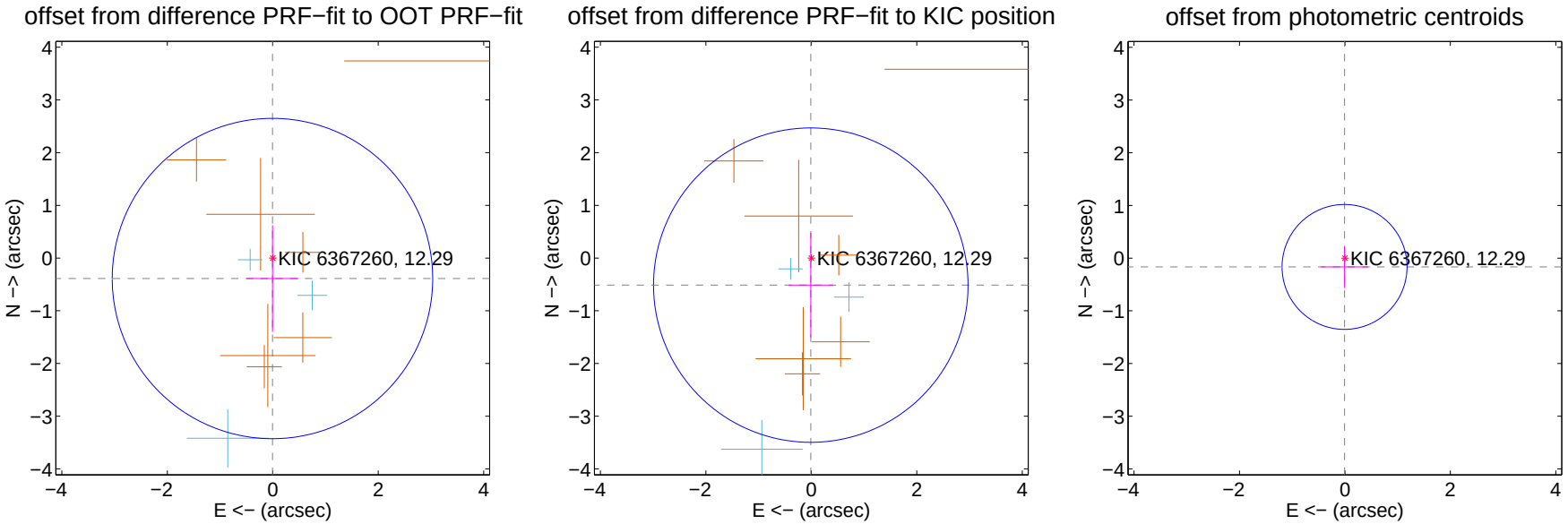
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

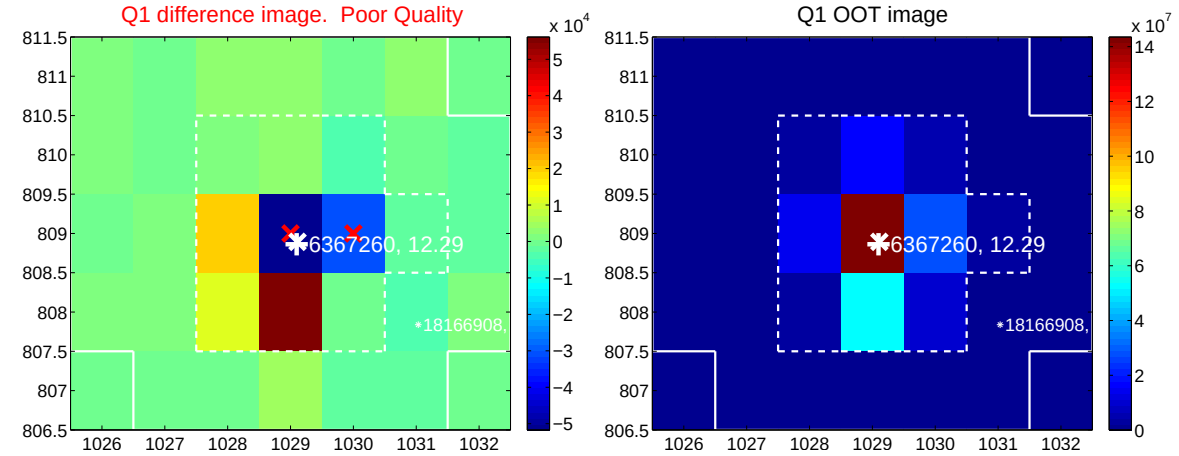
Supplemental centroid analysis for 006367260-08. Kepler magnitude: 12.29. Transit SNR 10.98
There are 3 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

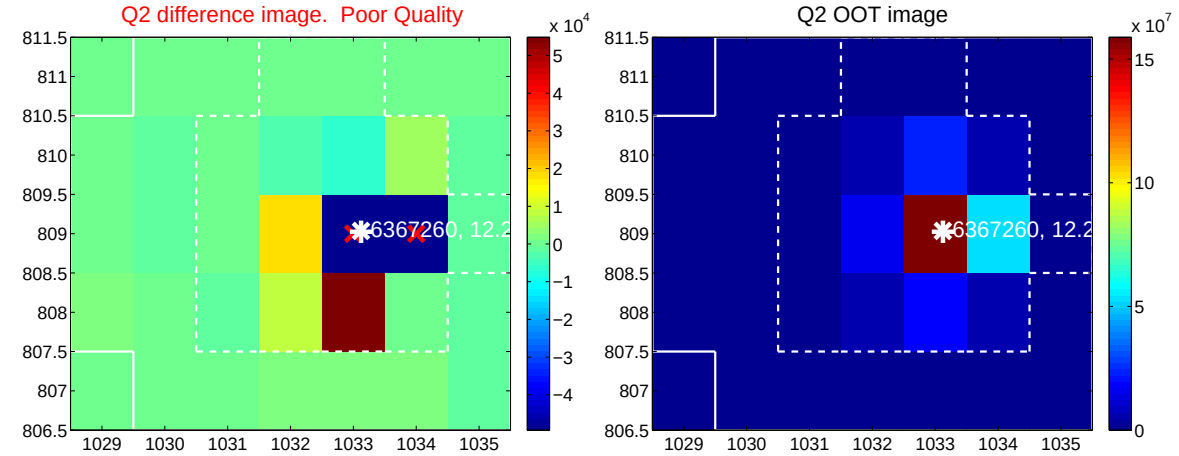
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.388 ± 1.013	0.38	0.006 ± 0.492	-0.388 ± 1.011
PRF-fit source offset from KIC position	0.514 ± 0.994	0.52	0.011 ± 0.423	-0.514 ± 0.992
photometric centroid source offset	0.17 ± 0.39	0.42	0.01 ± 0.45	-0.17 ± 0.39

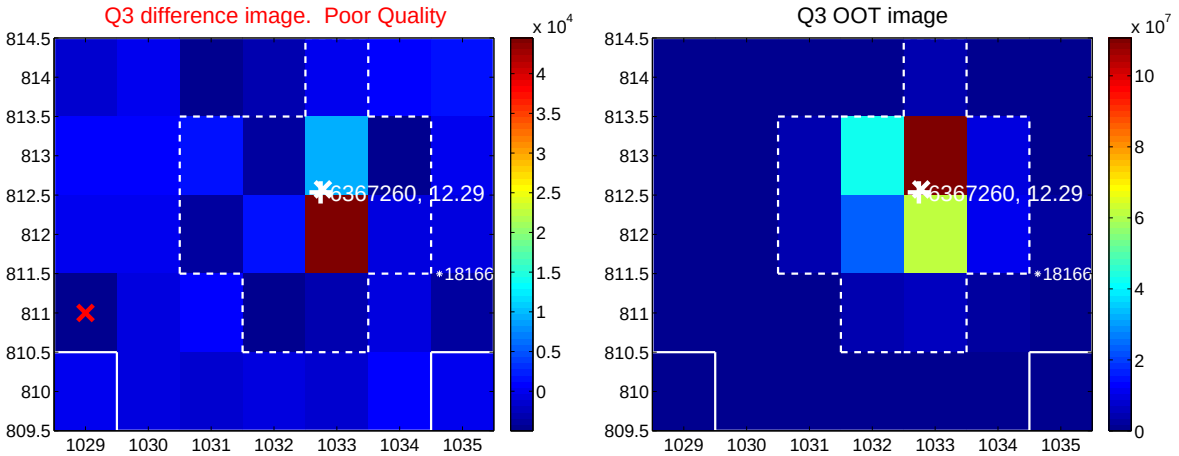


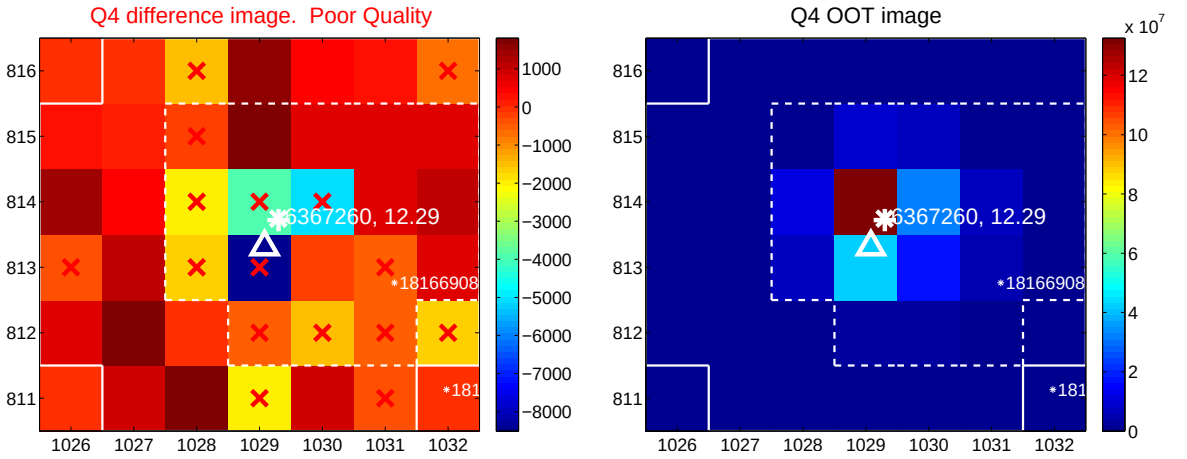
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

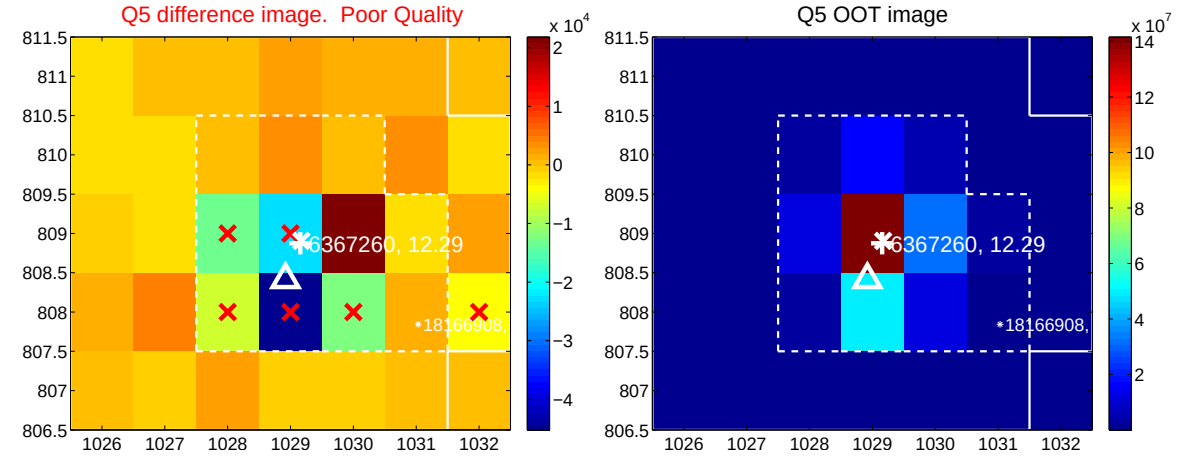


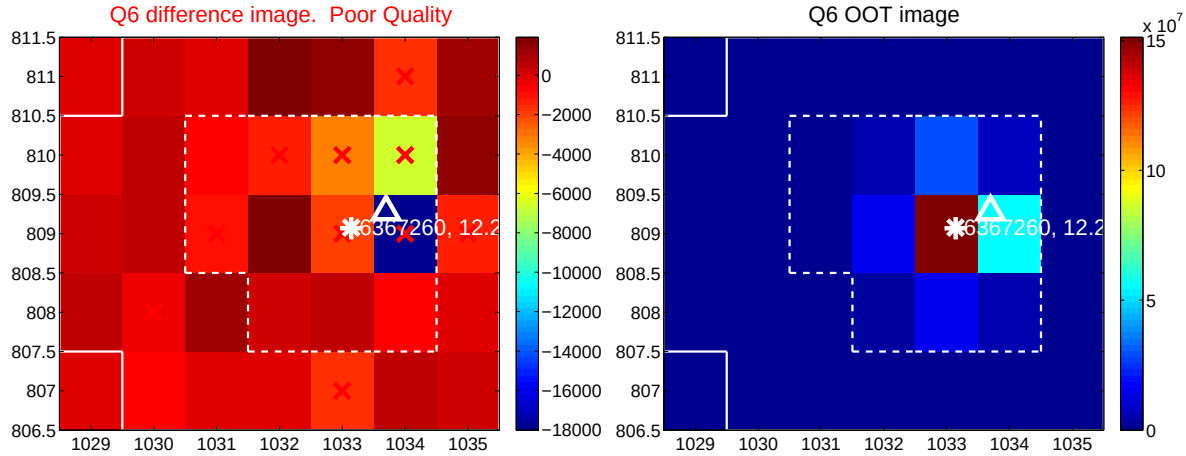


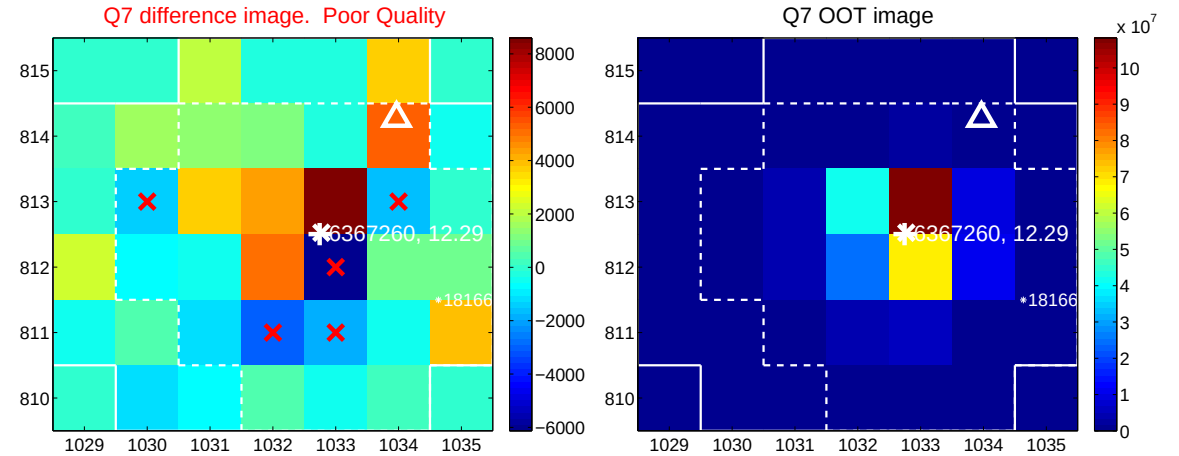


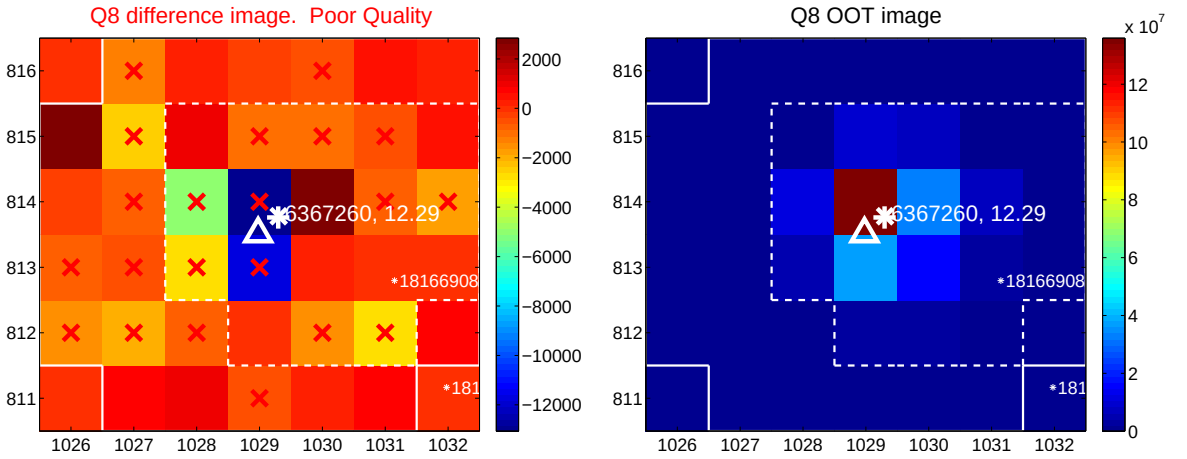


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

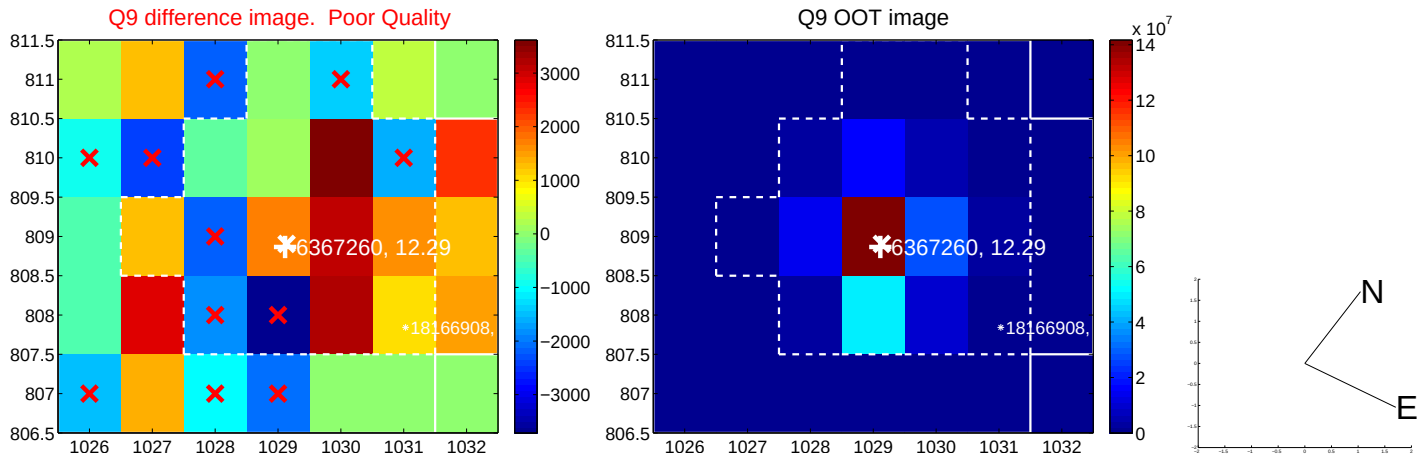


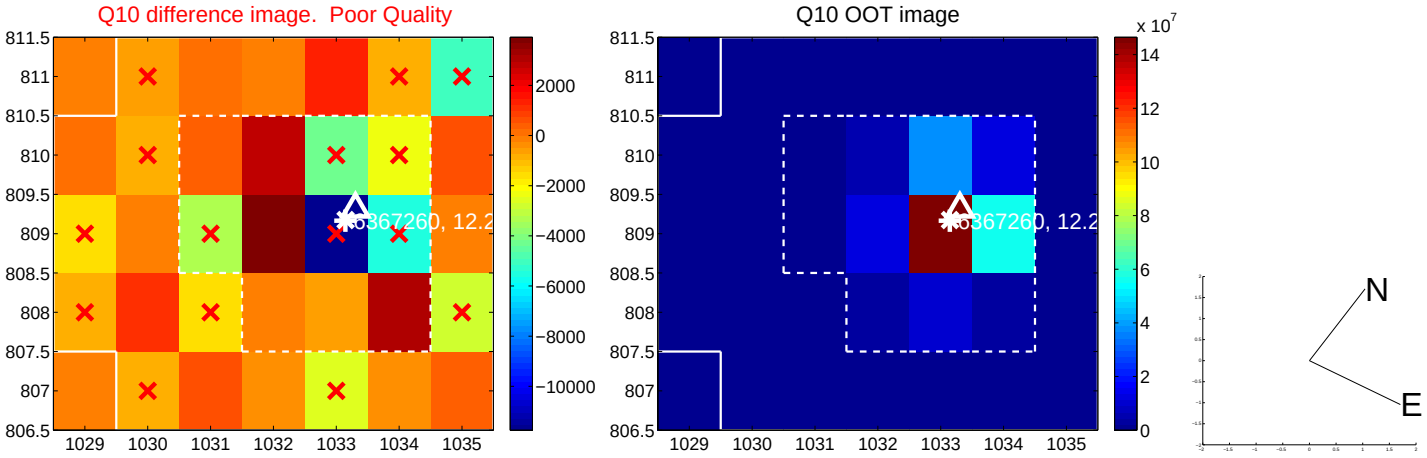


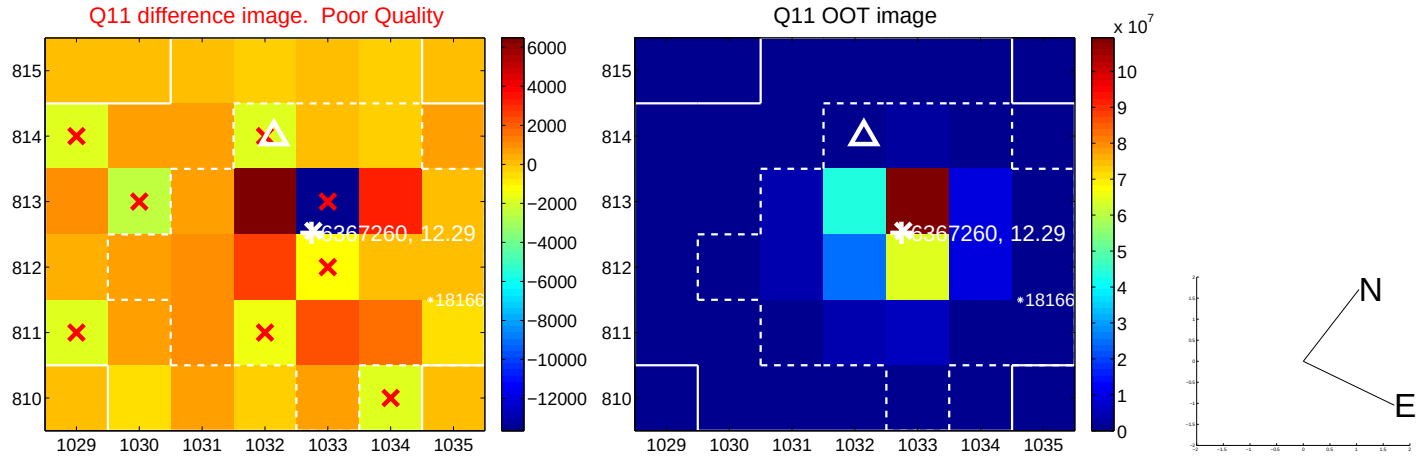


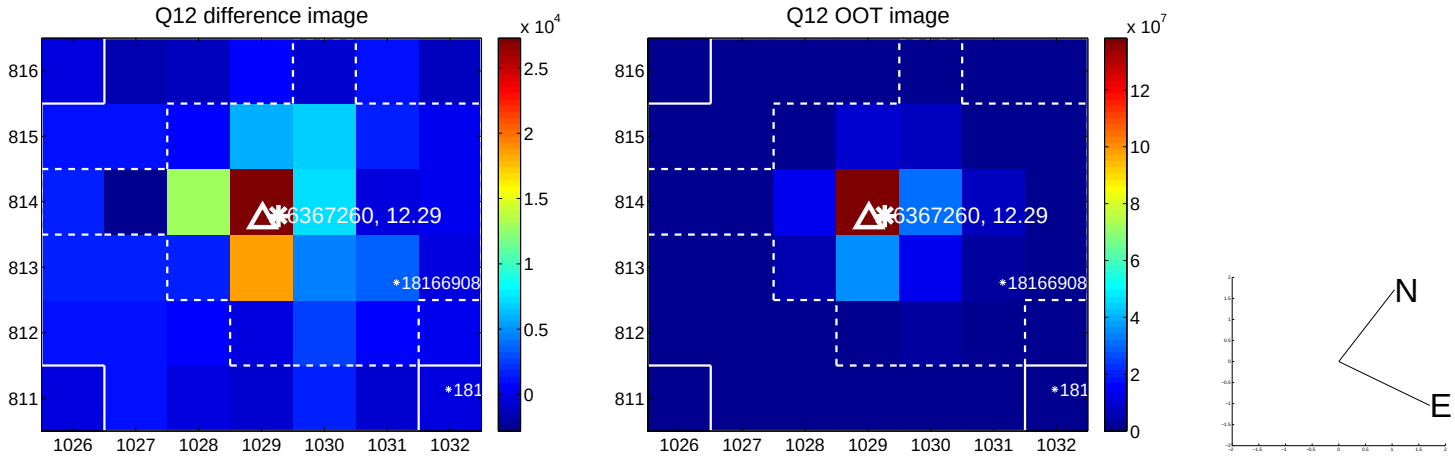


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

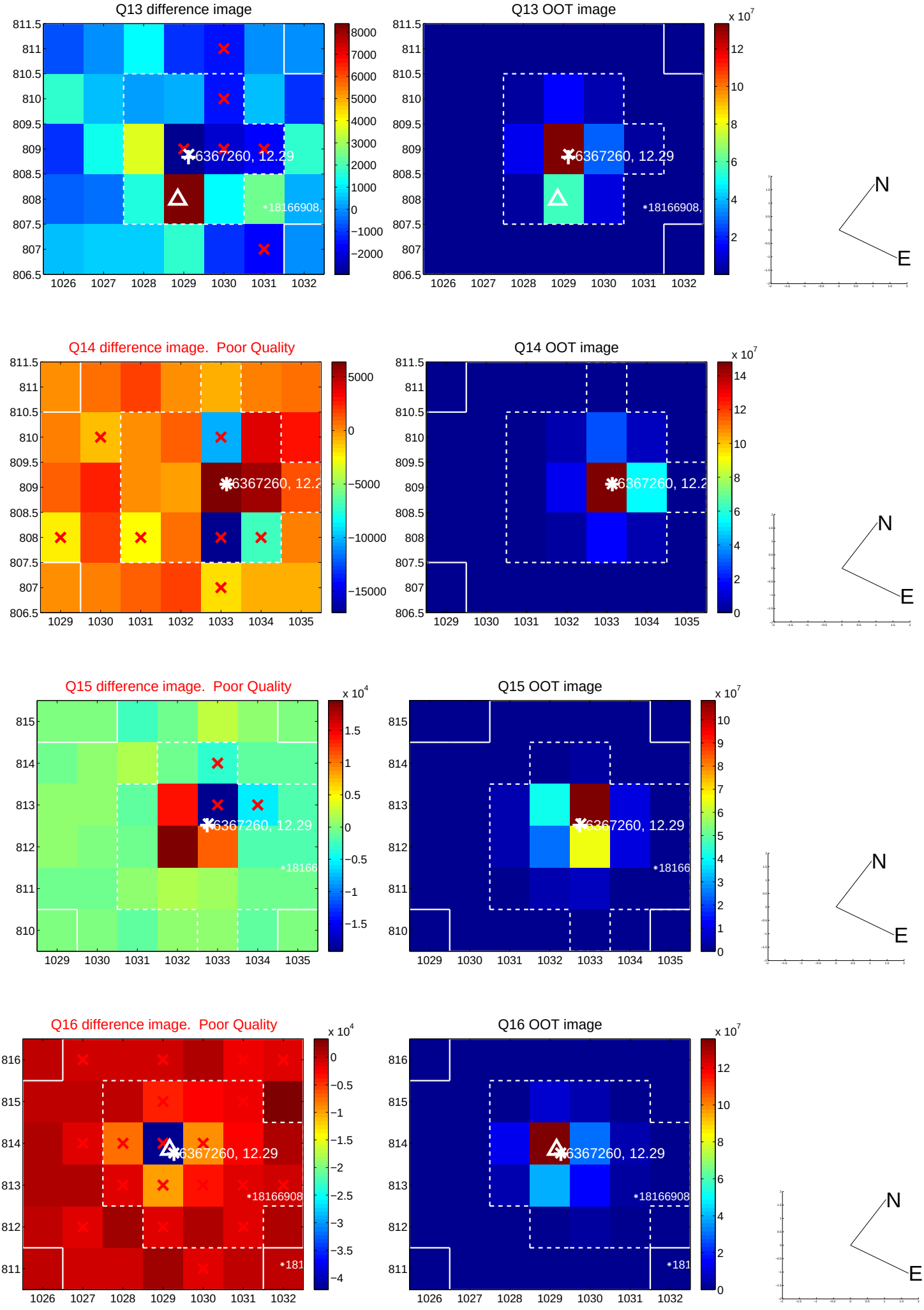




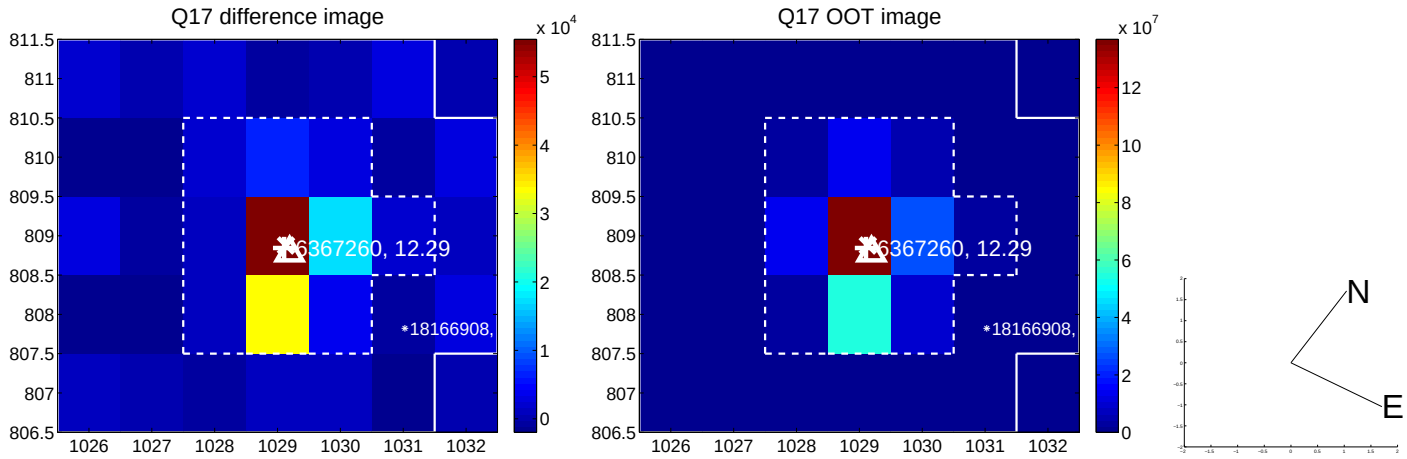


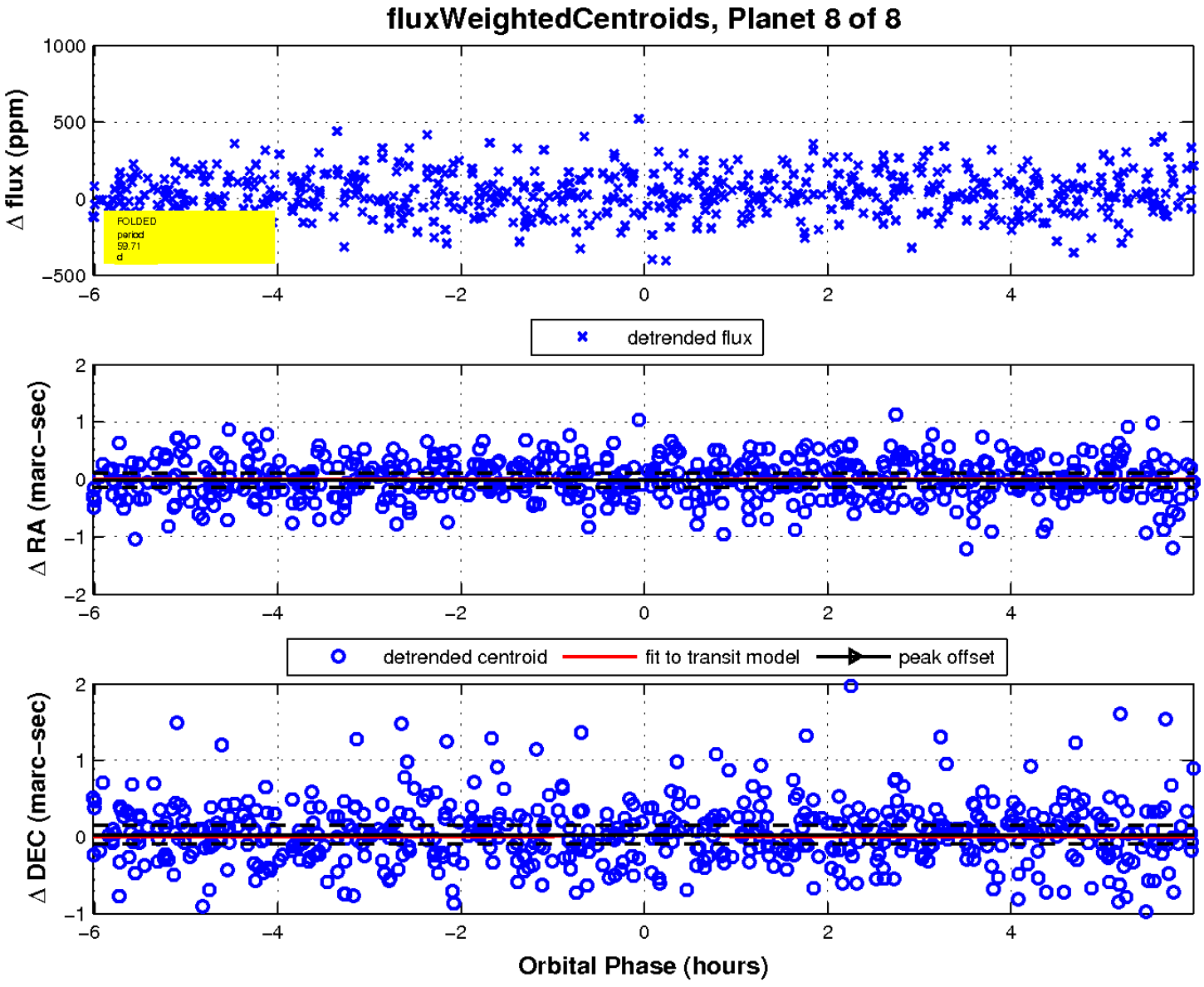


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

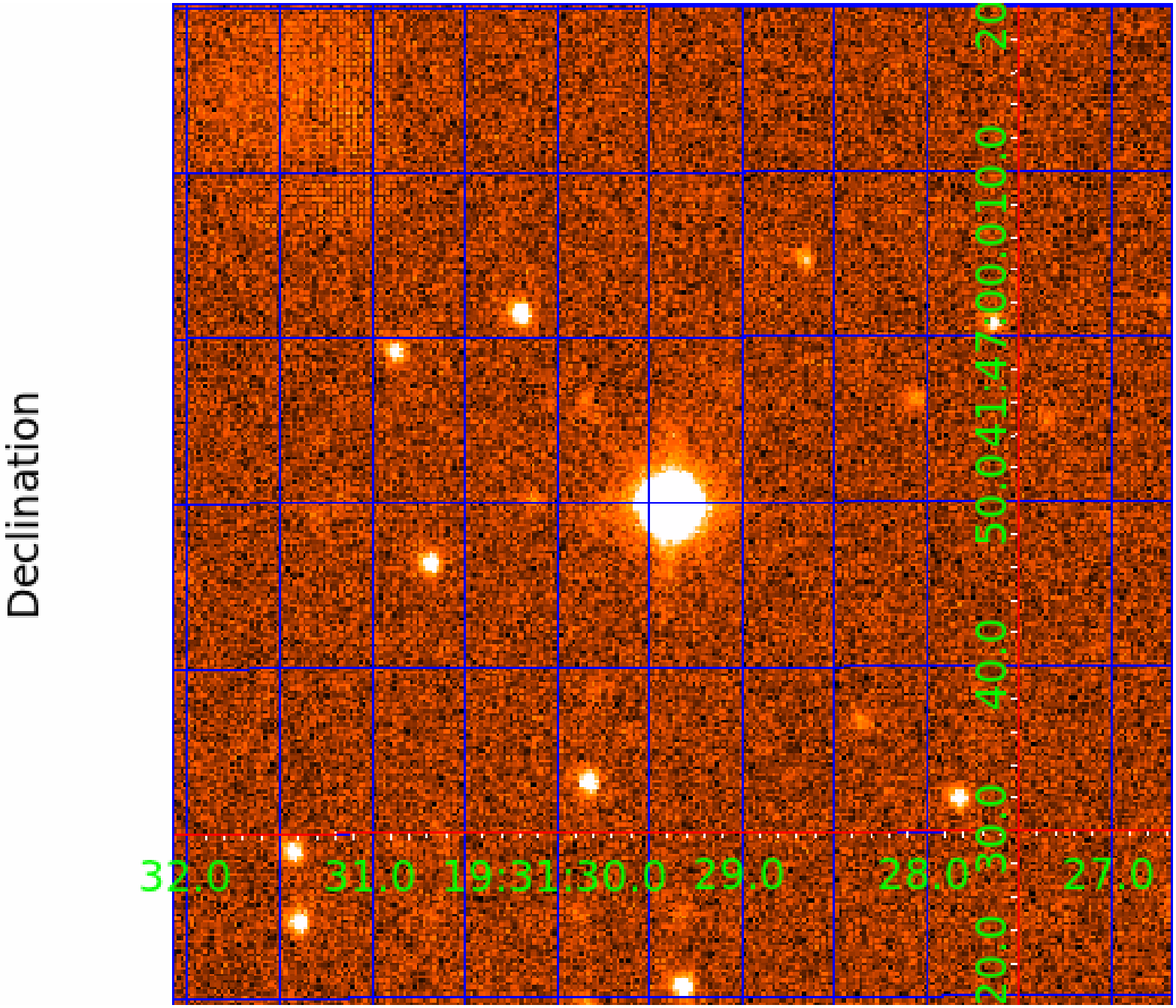


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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