KIC 006545018

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 ($S_\oplus$)
006545018-01	OBS	6729.01	1.995710	132.845986	249321.8	3.500	29098.0	-1.0	0.86	5807	38.81	933.05
006545018-02	OBS	No	4.989384	132.593973	16842.1	15.000	1403.9	-1.0	0.86	5807	11.17	274.98
006545018-03	OBS	No	4.989384	133.595217	15139.2	15.000	1191.8	-1.0	0.86	5807	10.59	274.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006545018-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
006545018-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006545018-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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.

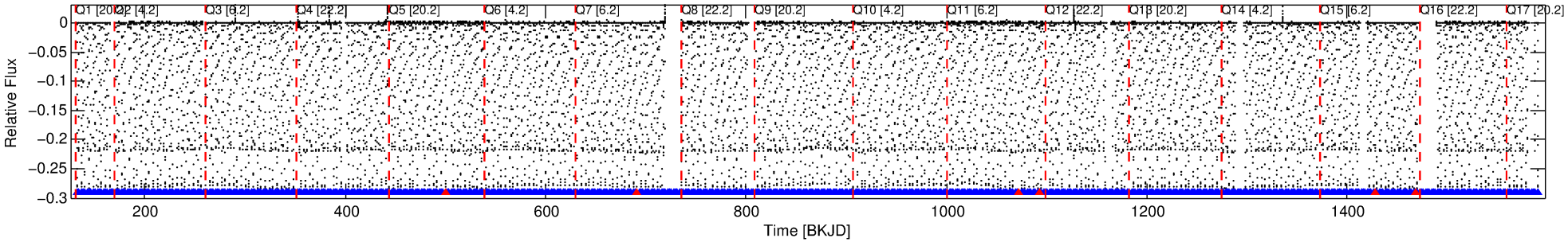
Ephemeris Match Information For 006545018-01

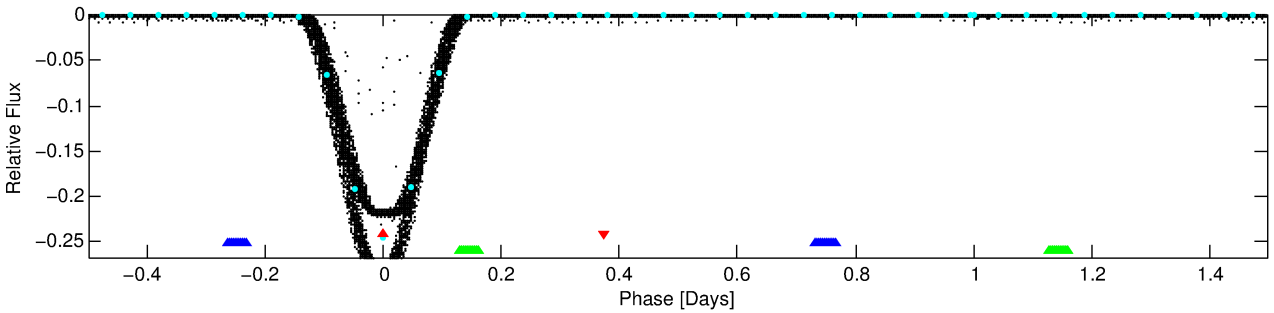
No Significant Match Found

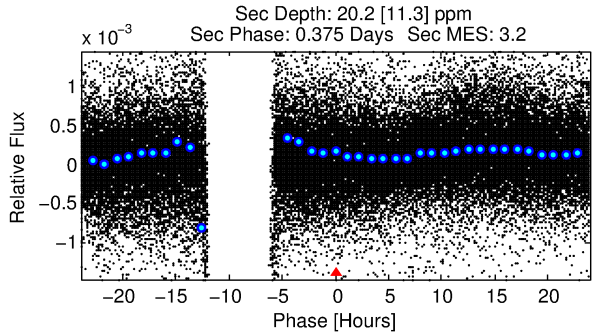
DV One-Page Summary

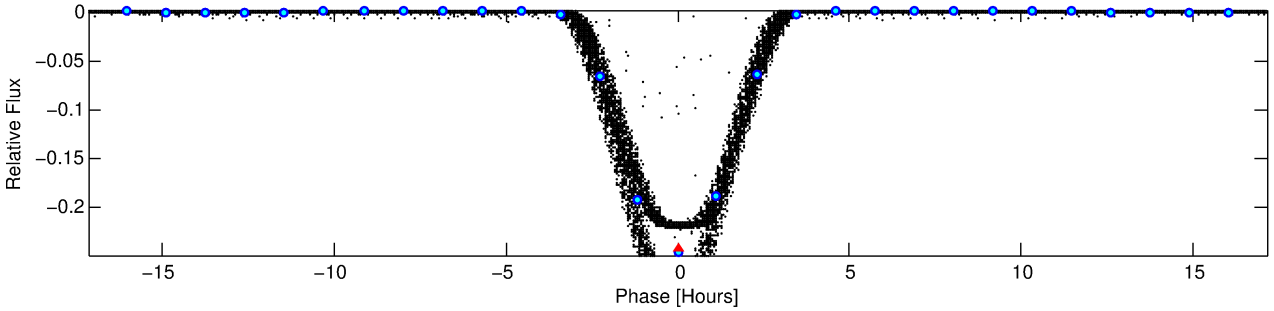
KIC: 6545018 Candidate: 1 of 3 Period: 1.996 d
KOI: K06729 Corr: No Ephemeris Match

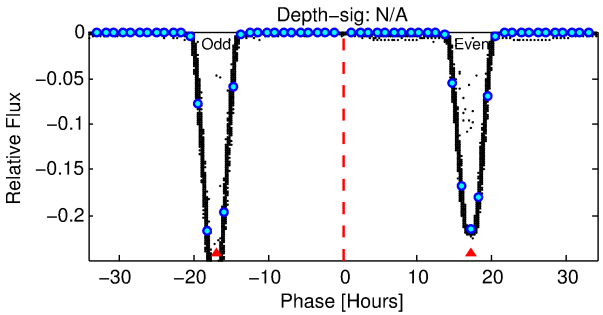
Kp: 13.75 R*: 0.86 Rs Teff: 5807.0 K Logg: 4.46 Fe/H: −0.640

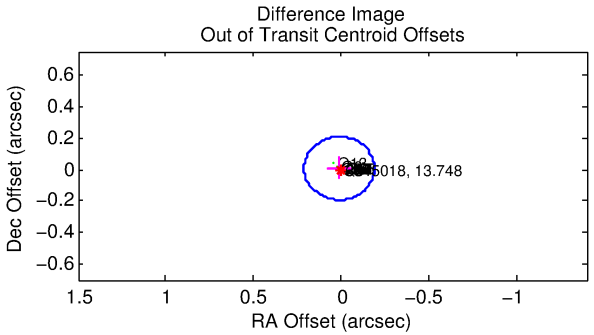












TPS TCE Results:

Period = 1.99571 d
Epoch = 132.8460 BKJD

DV fit results are unavailable

DV Diagnostic Results:

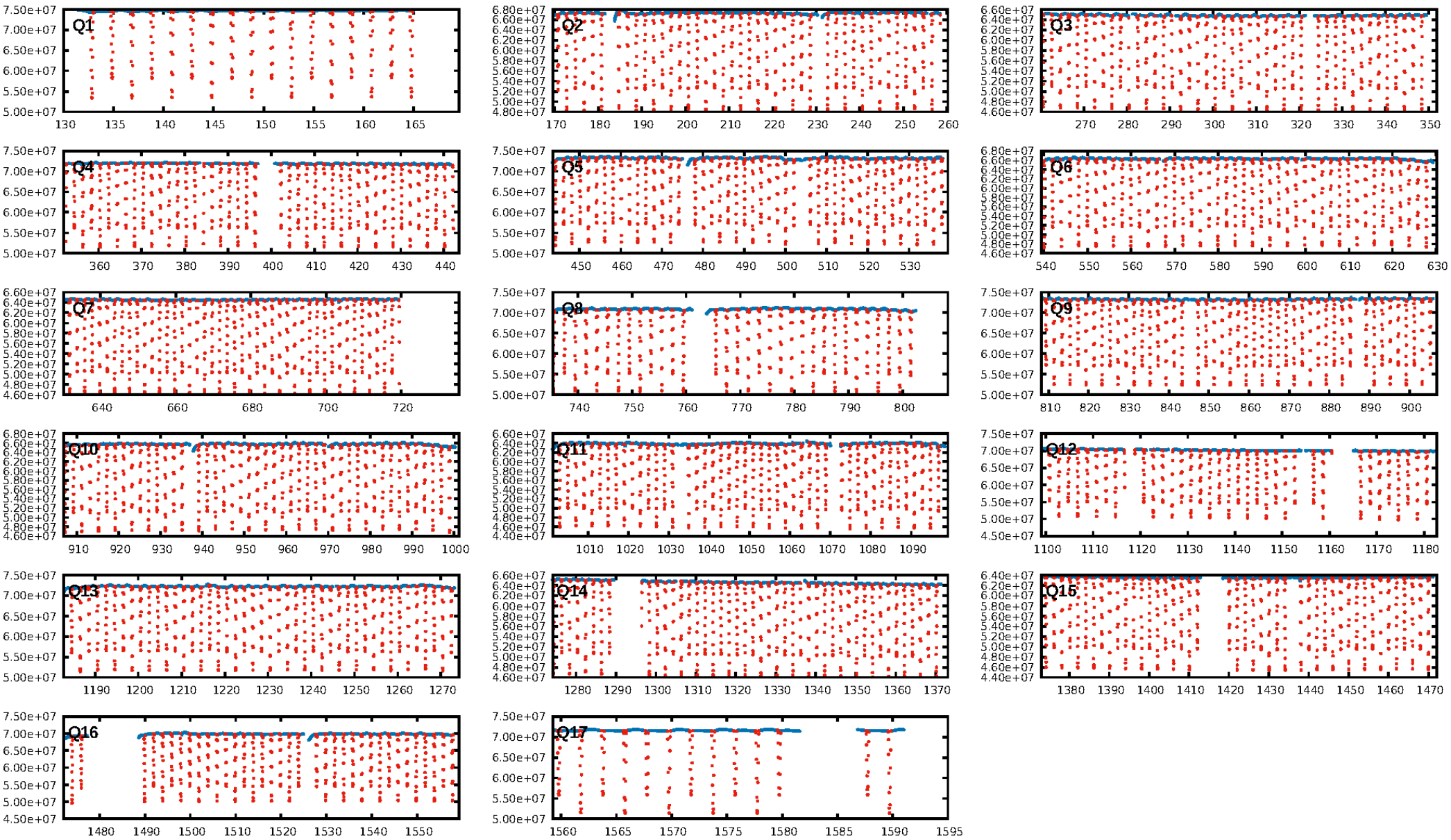
ShortPeriod−sig: N/A
LongPeriod−sig: 100.0% [4.66σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 0.99 [640/646]
GhostDiagnostic−chr: 1.9

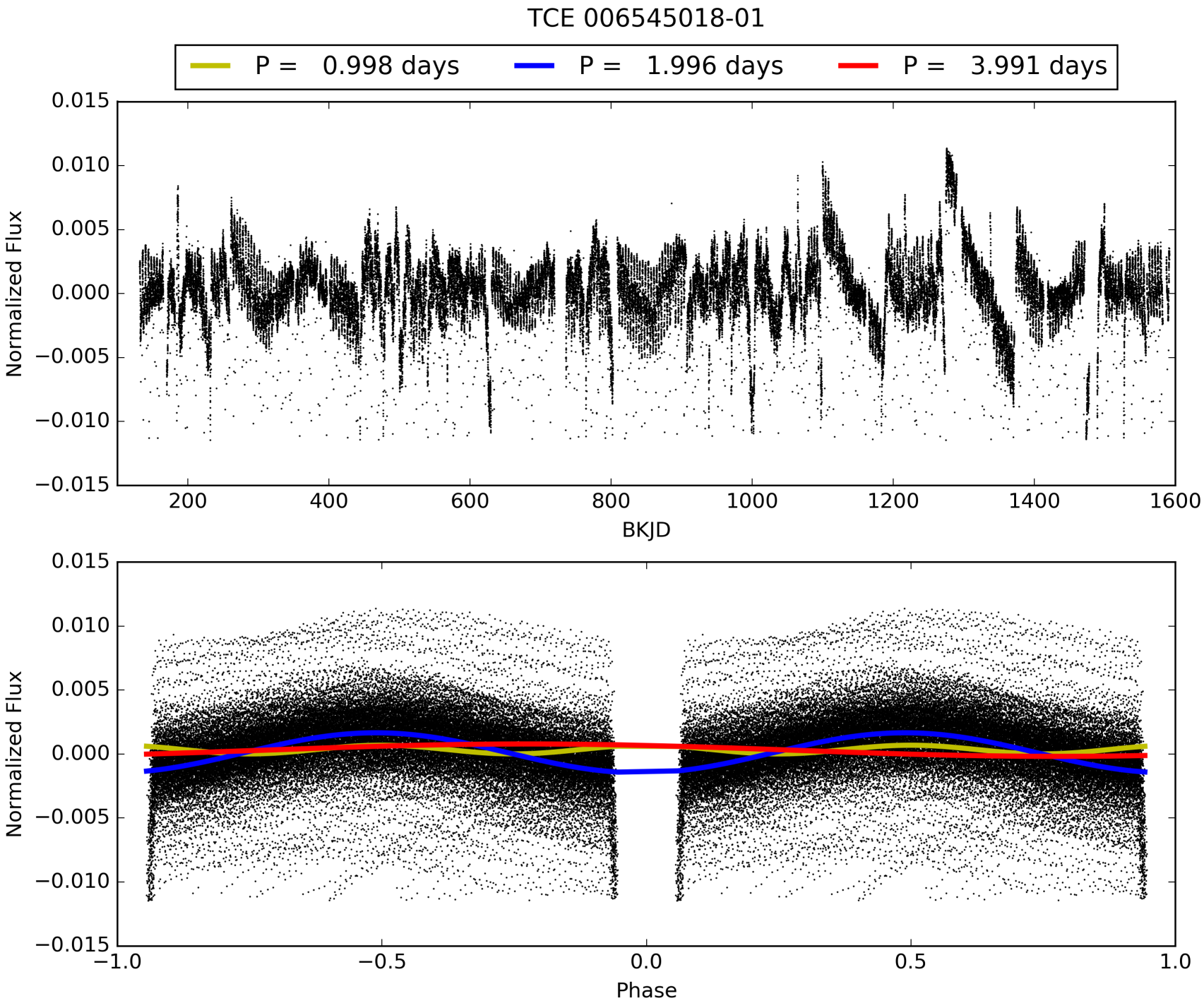
Centroid−sig: N/A
Centroid−so: 0.037 arcsec [98.04σ]
OotOffset−rm: 0.015 arcsec [0.23σ]
KicOffset−rm: 0.157 arcsec [2.34σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 1.00 [17/17]
DiffImageOverlap−fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 −− Date Generated: 31−Jan−2016 07:45:19 Z

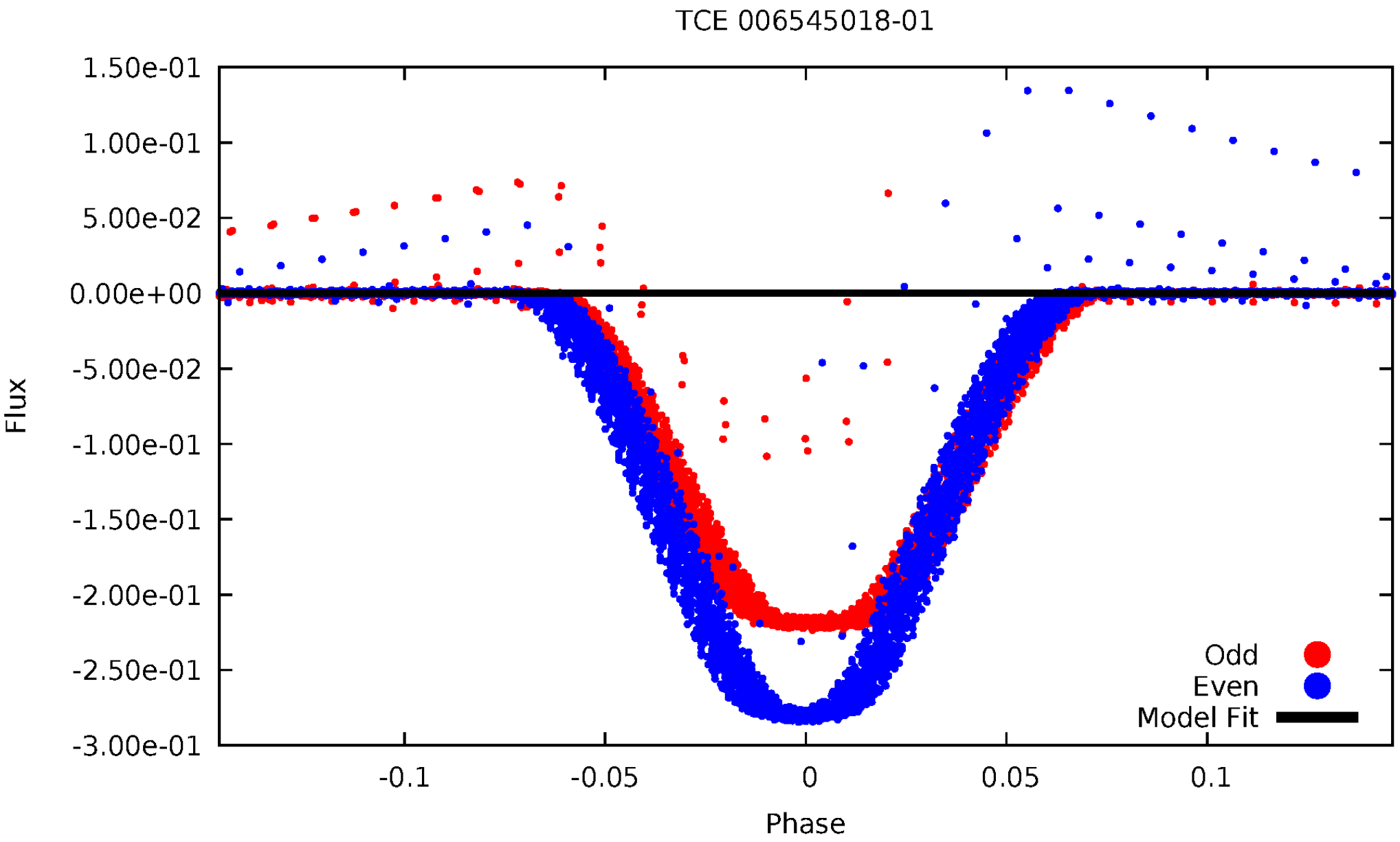
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006545018-01, PDC Light Curves

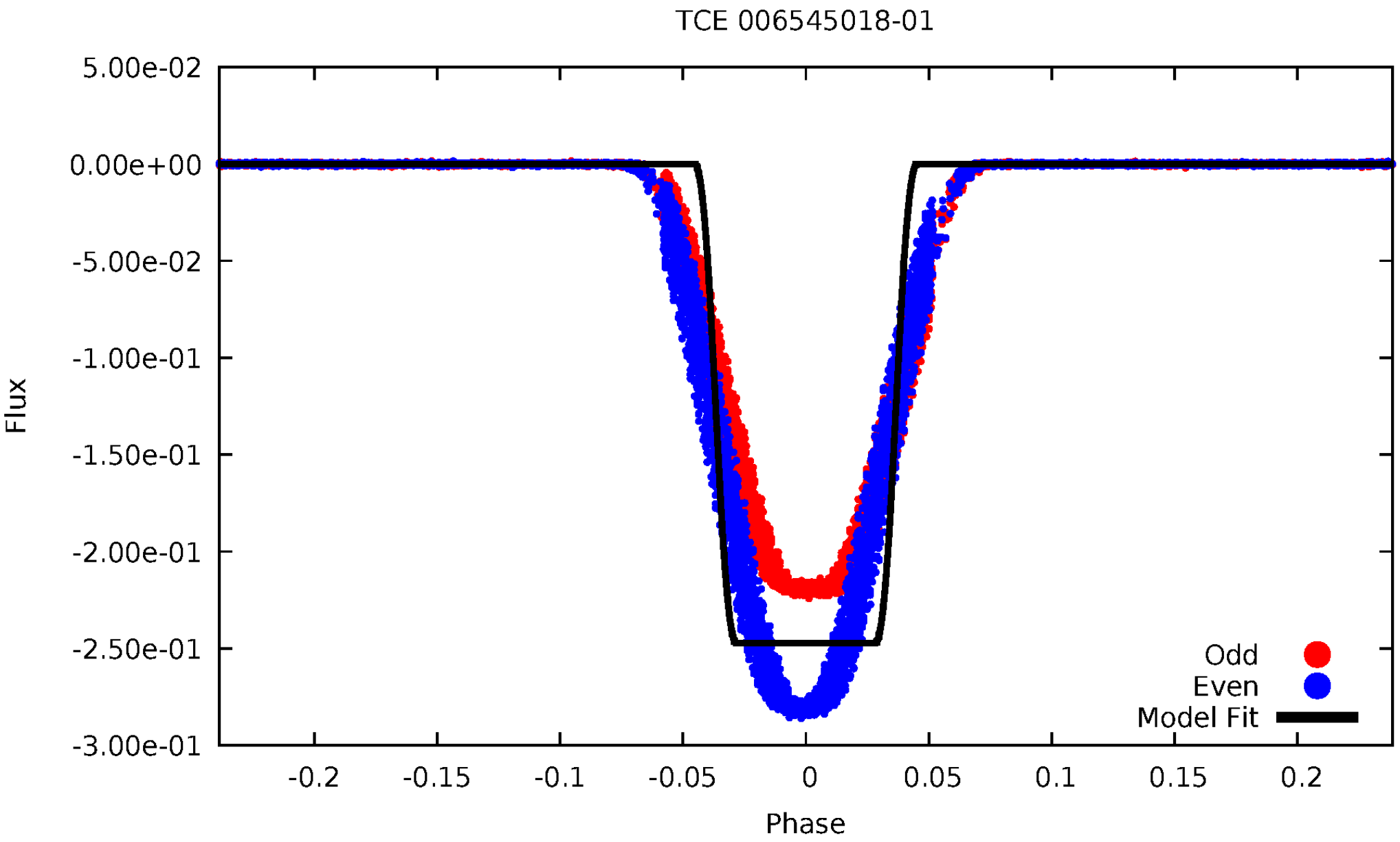



TCE 006545018-01
P = 0.998 days
P = 1.996 days
P = 3.991 days
Normalized Flux
BKJD
Normalized Flux
Phase

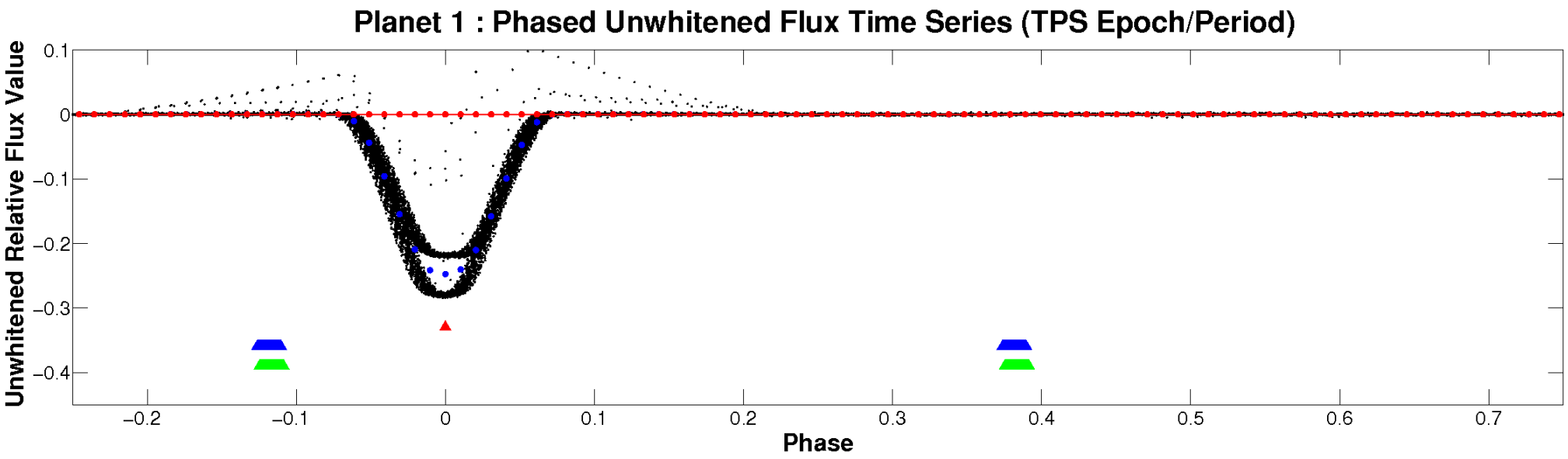
DV Odd/Even

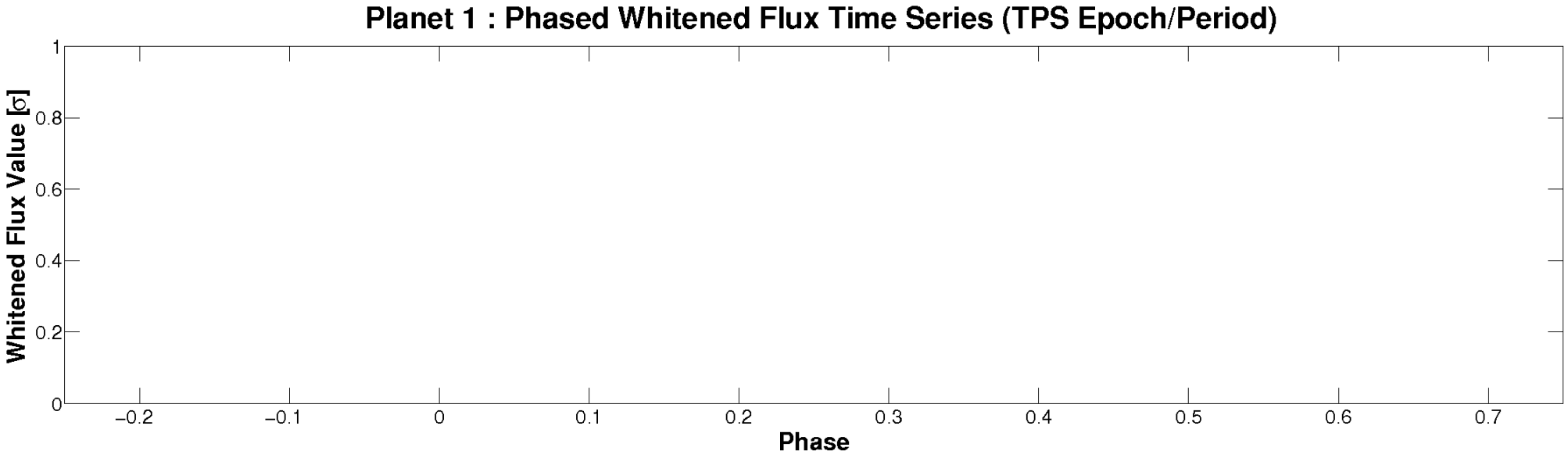

TCE 006545018-01
1.50e-01
1.00e-01
5.00e-02
0.00e+00
-5.00e-02
-1.00e-01
-1.50e-01
-2.00e-01
-2.50e-01
-3.00e-01
Flux
-0.1
-0.05
0
0.05
0.1
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006545018-01
5.00e-02
0.00e+00
-5.00e-02
-1.00e-01
-1.50e-01
-2.00e-01
-2.50e-01
-3.00e-01
Flux
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Phase
Odd
Even
Model Fit

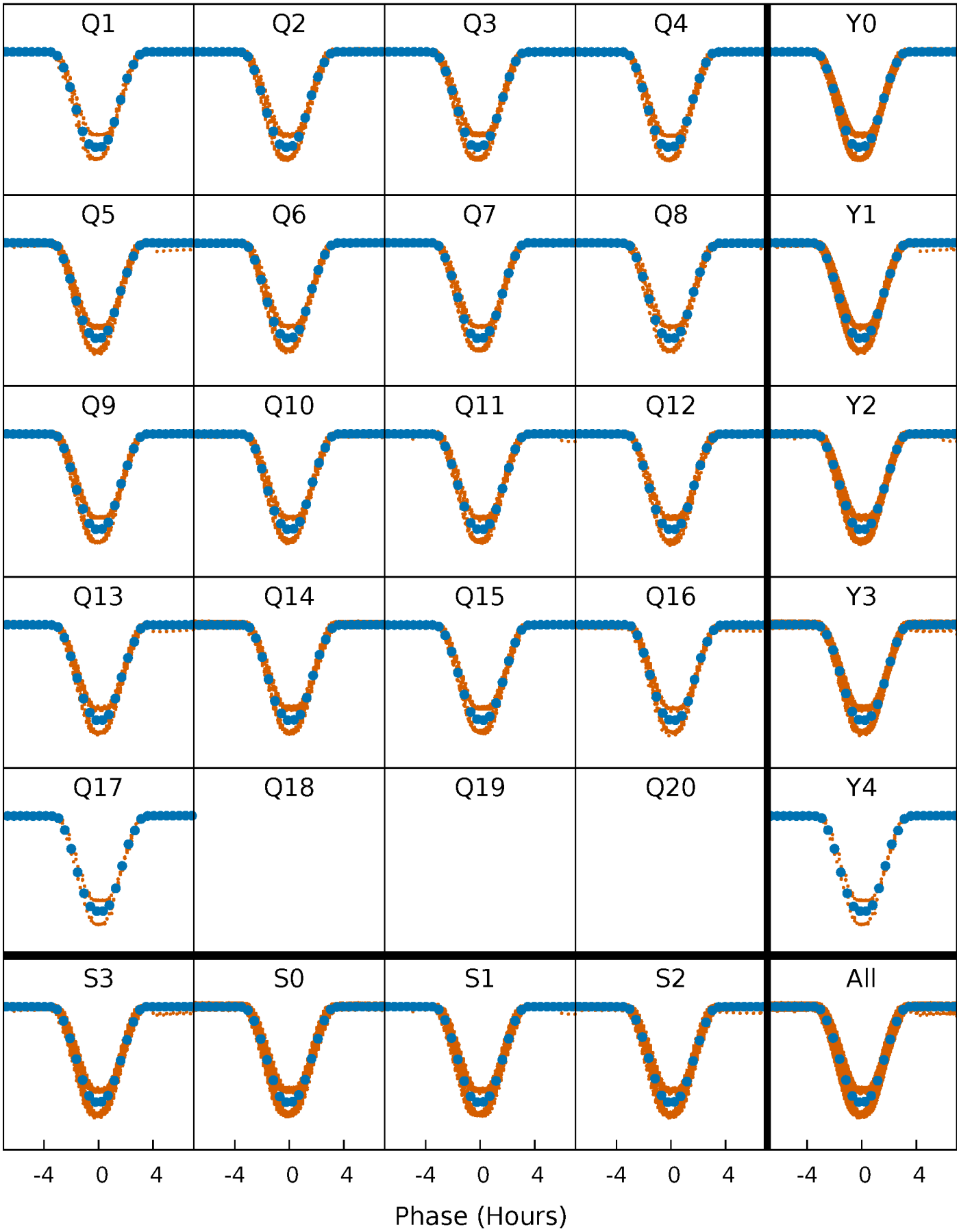
Non-Whitened Vs. Whitened Light Curve





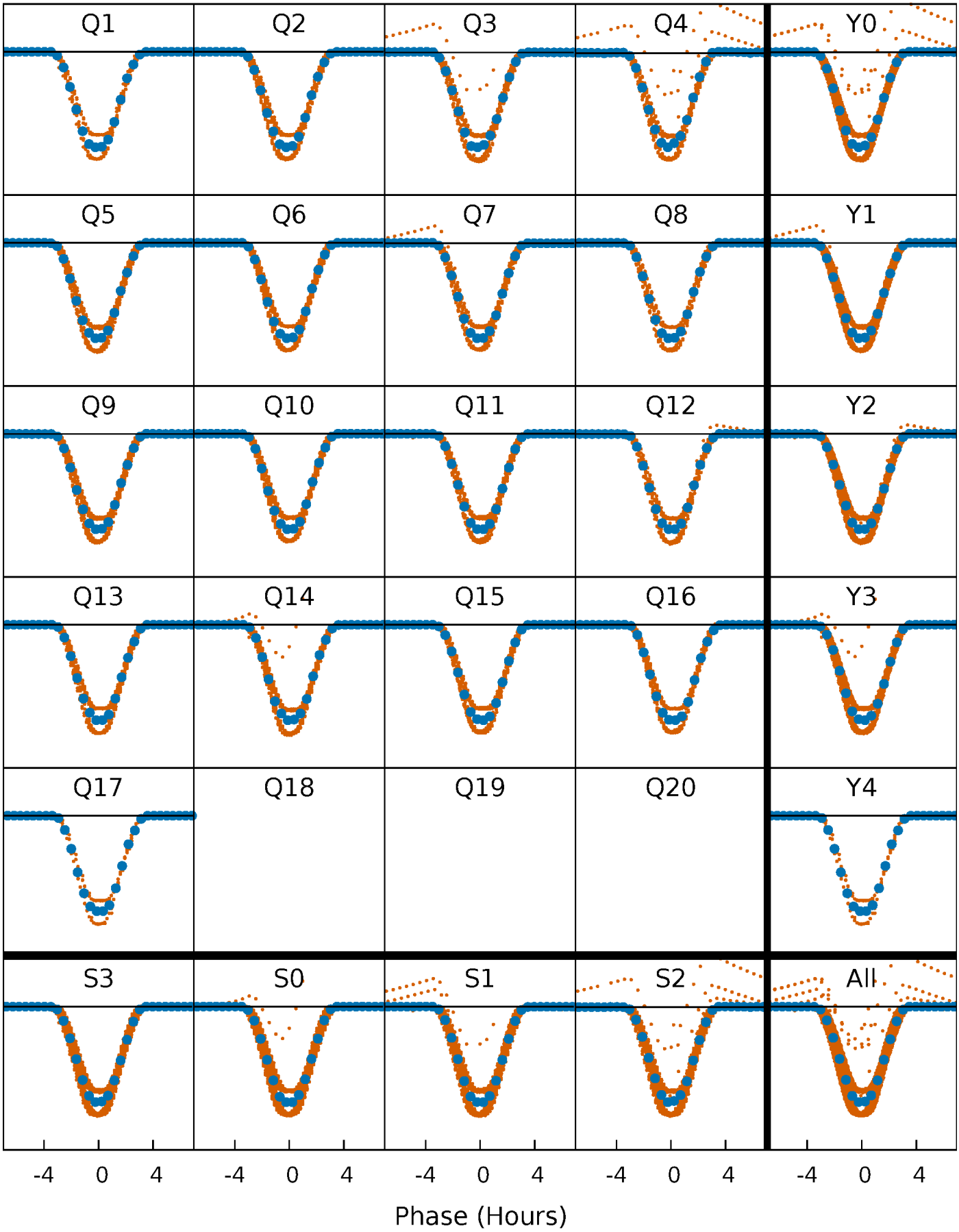
PDC Quarter-Phased Transit Curves

TCE 006545018-01 P= 1.995710 Days T_0=132.845986 (BKJD)



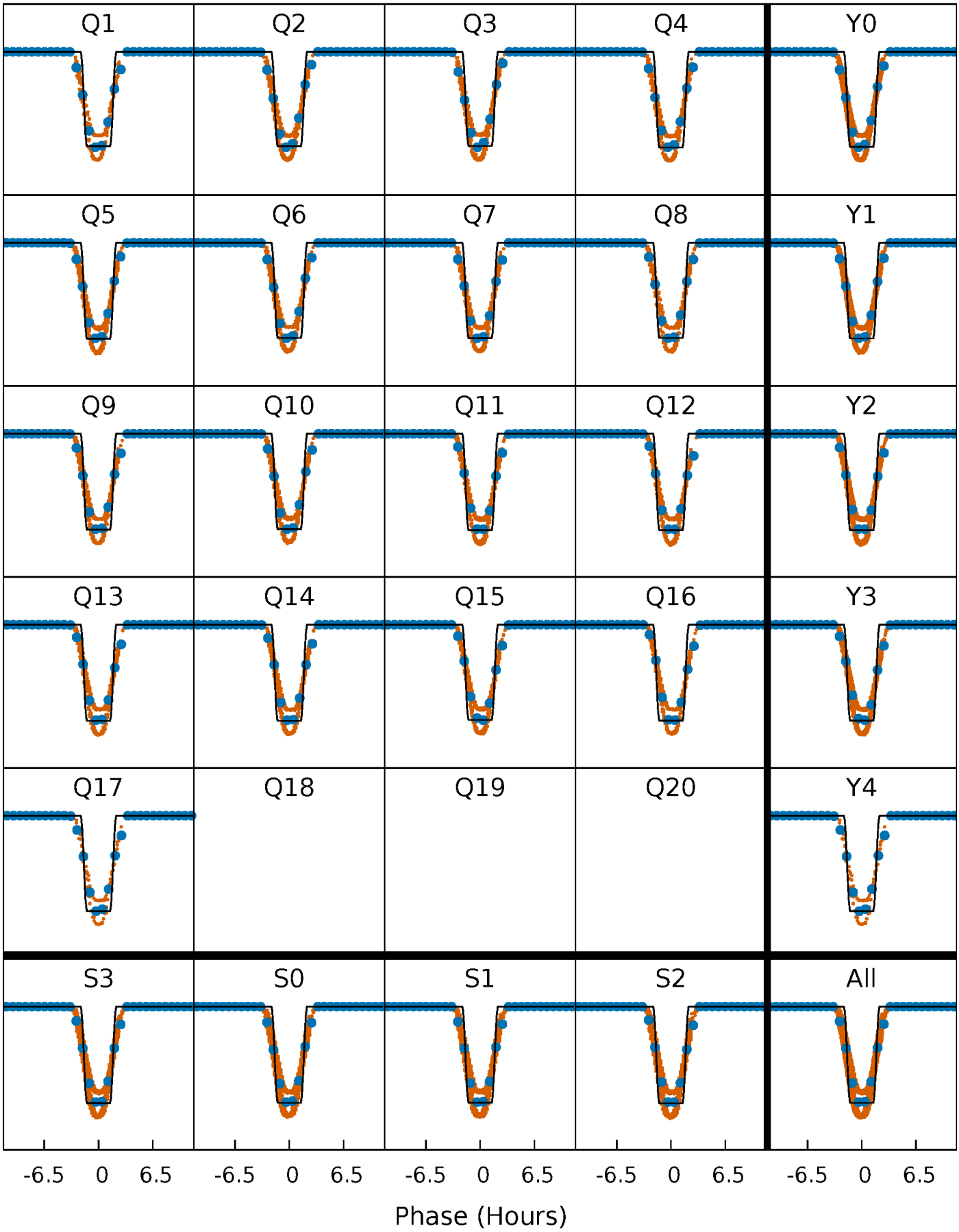
DV Quarter-Phased Transit Curves

TCE 006545018-01 P= 1.995710 Days T_0=132.845986 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

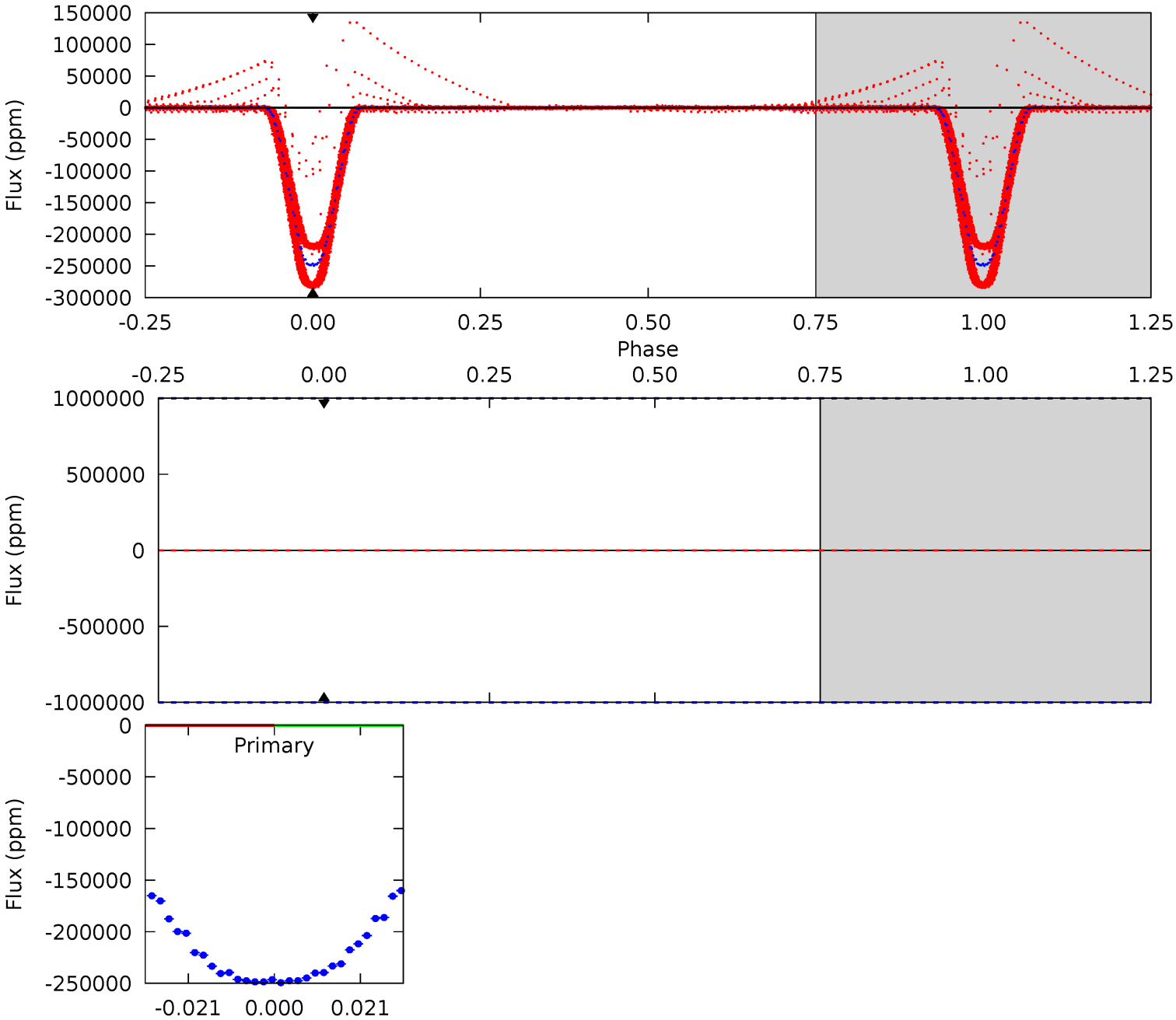
TCE 006545018-01 P= 1.995710 Days T_0=132.846762 (BKJD)



DV Model-Shift Uniqueness Test

006545018-01, P = 1.995710 Days, E = 130.850276 Days

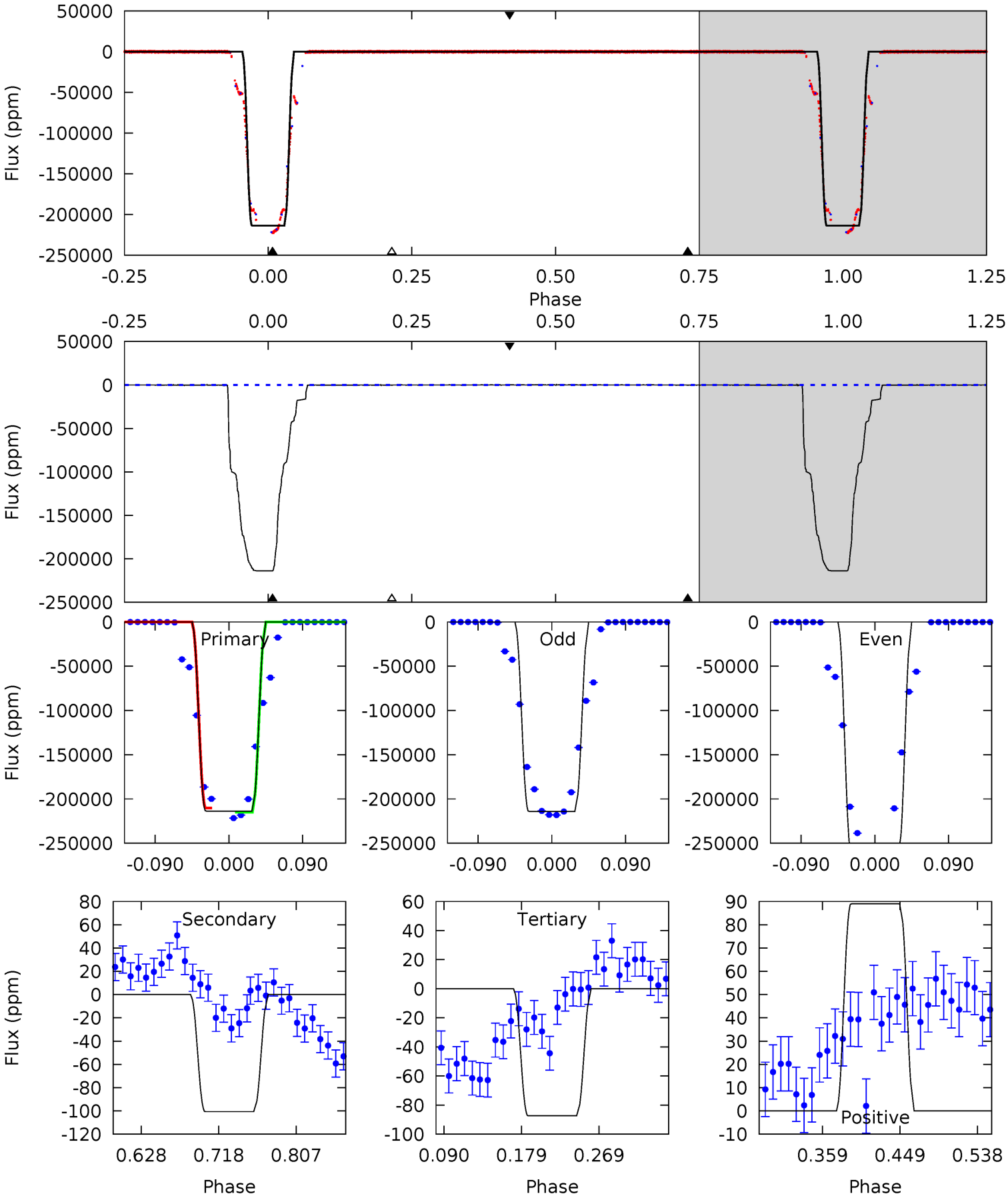
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006545018-01, P = 1.995710 Days, E = 130.851052 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9618	4.53	3.93	4.00	4.59	1.70	2.04	9614	9614	0.60	0.52	2550	0.98	0.00	0



Stellar Parameters For KIC 006545018

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5807^{+157}_{-157}	$4.455^{+0.130}_{-0.159}$	$-0.640^{+0.300}_{-0.300}$	$0.861^{+0.188}_{-0.126}$	$0.771^{+0.100}_{-0.046}$	$1.702^{+0.970}_{-0.717}$
	+3%/-3%	+3%/-4%	+47%/-47%	+22%/-15%	+13%/-6%	+57%/-42%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006545018-01 / KOI 6729.01

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0±1000000	$38.28^{+11.07}_{-9.59}$	1976^{+106}_{-114}	2887^{+2470}_{-8050}	$1.393^{+36.431}_{-29.240}$
Alt.	-101±22	$47.87^{+11.29}_{-11.30}$	1974^{+115}_{-102}	-2454^{+67}_{-79}	$0.020^{+0.015}_{-0.008}$

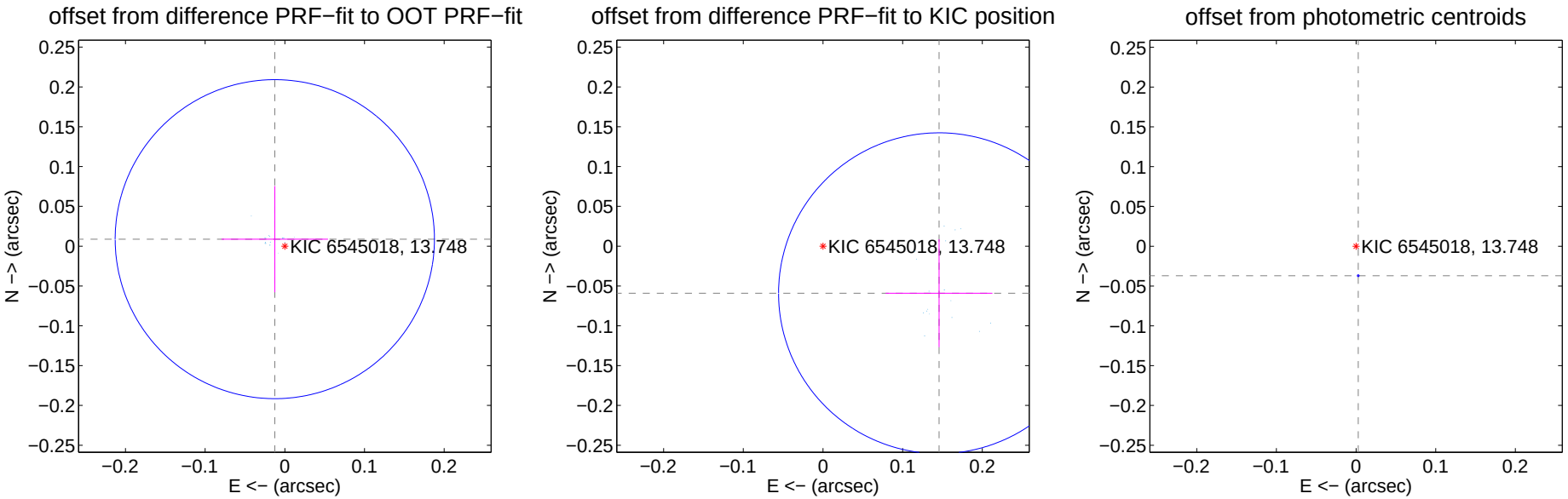
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

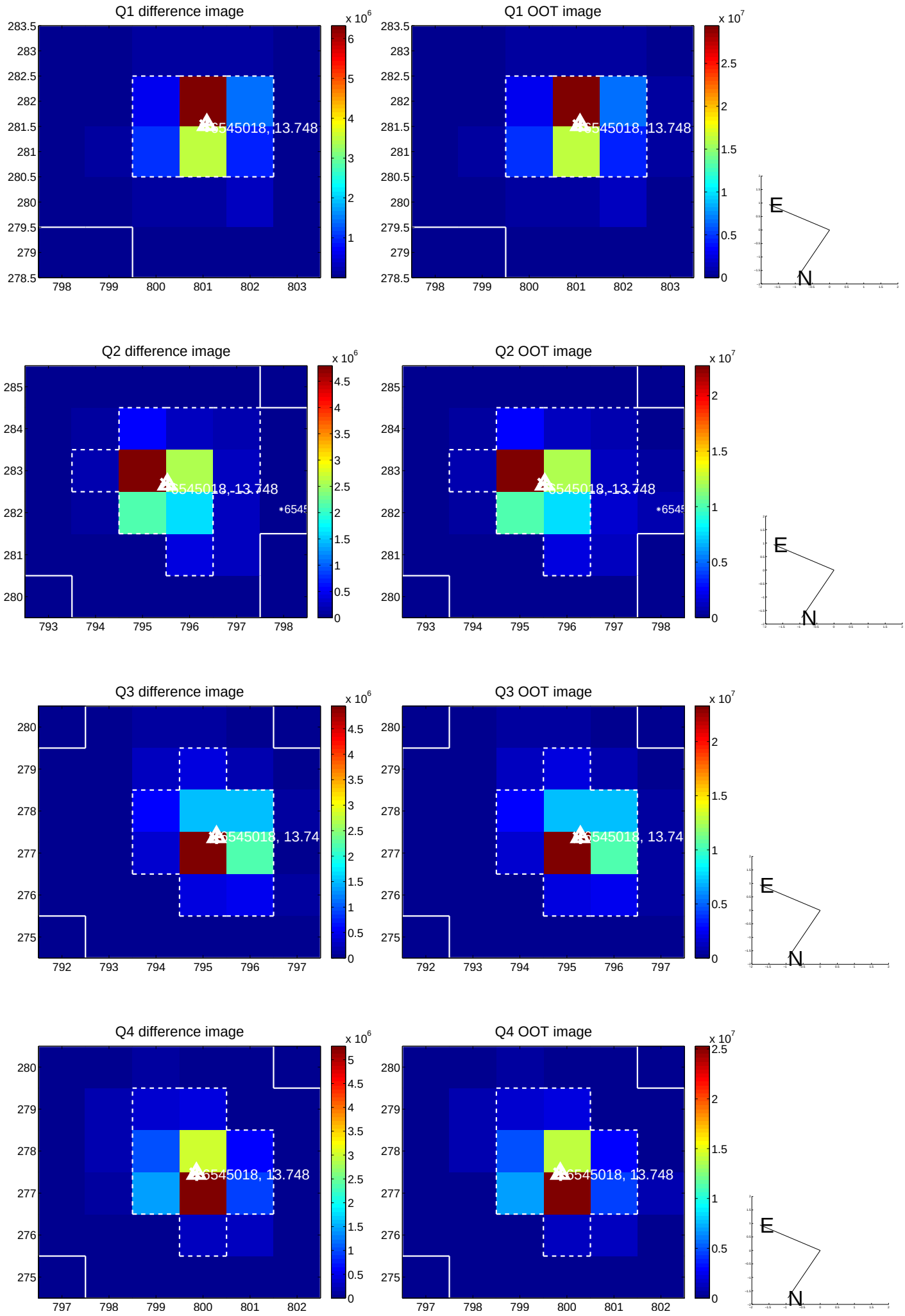
Supplemental centroid analysis for 006545018-01. Kepler magnitude: 13.75. Transit SNR -1.00
There are 17 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.015 ± 0.067	0.23	0.013 ± 0.067	0.009 ± 0.067
PRF-fit source offset from KIC position	0.157 ± 0.067	2.34	-0.146 ± 0.067	-0.059 ± 0.068
photometric centroid source offset	0.04 ± 0.00	98.04	-0.00 ± 0.00	-0.04 ± 0.00

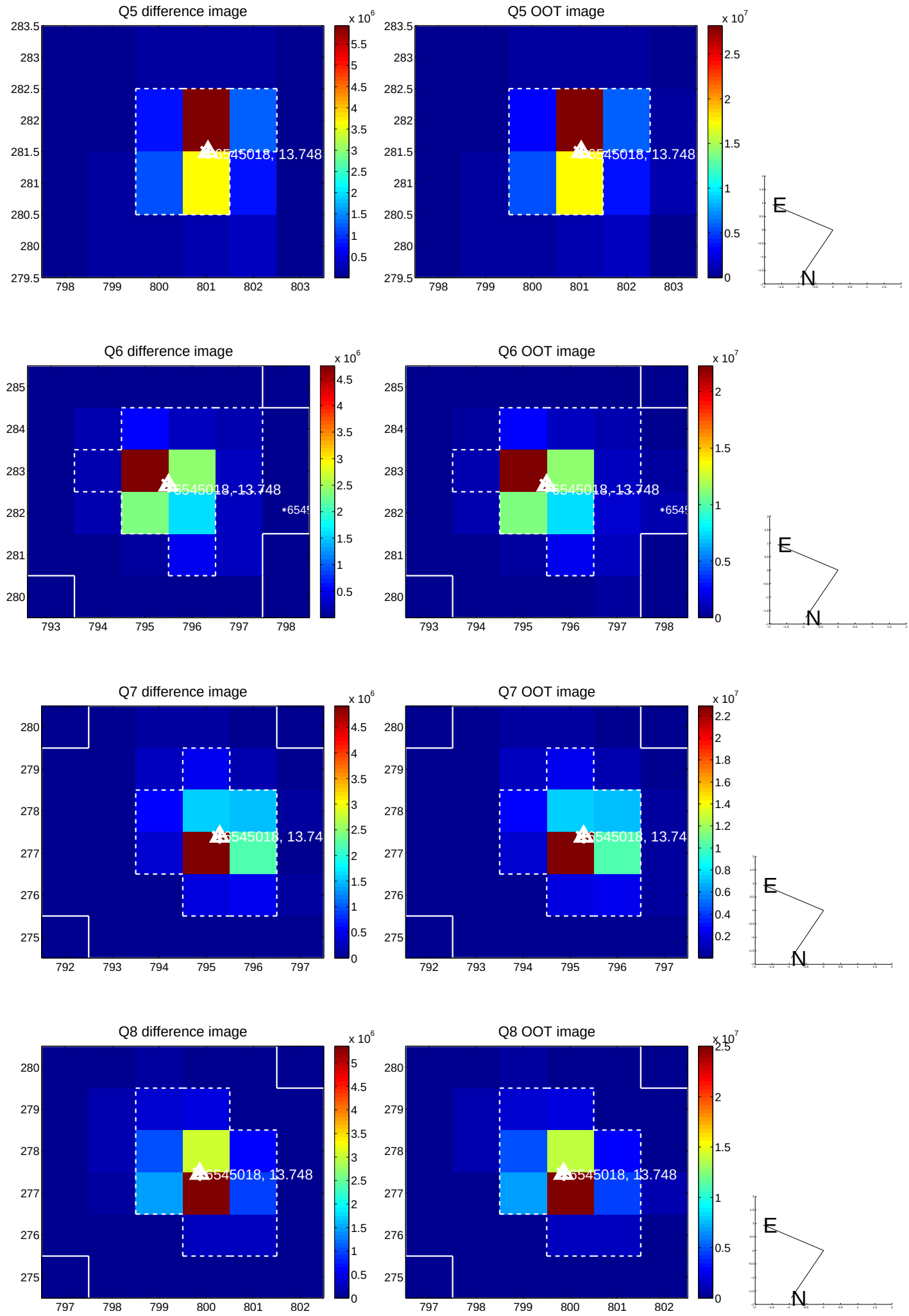


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

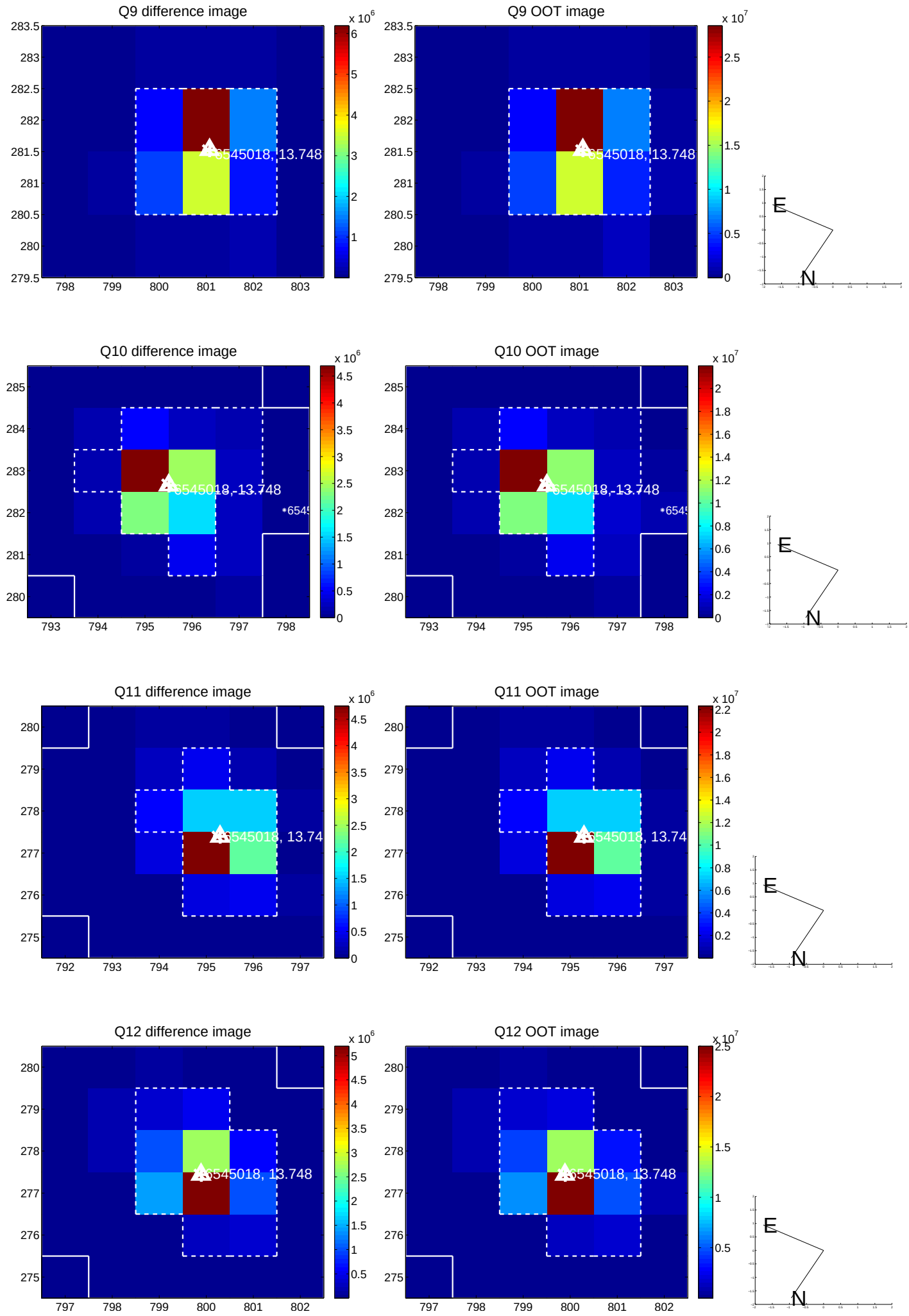
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



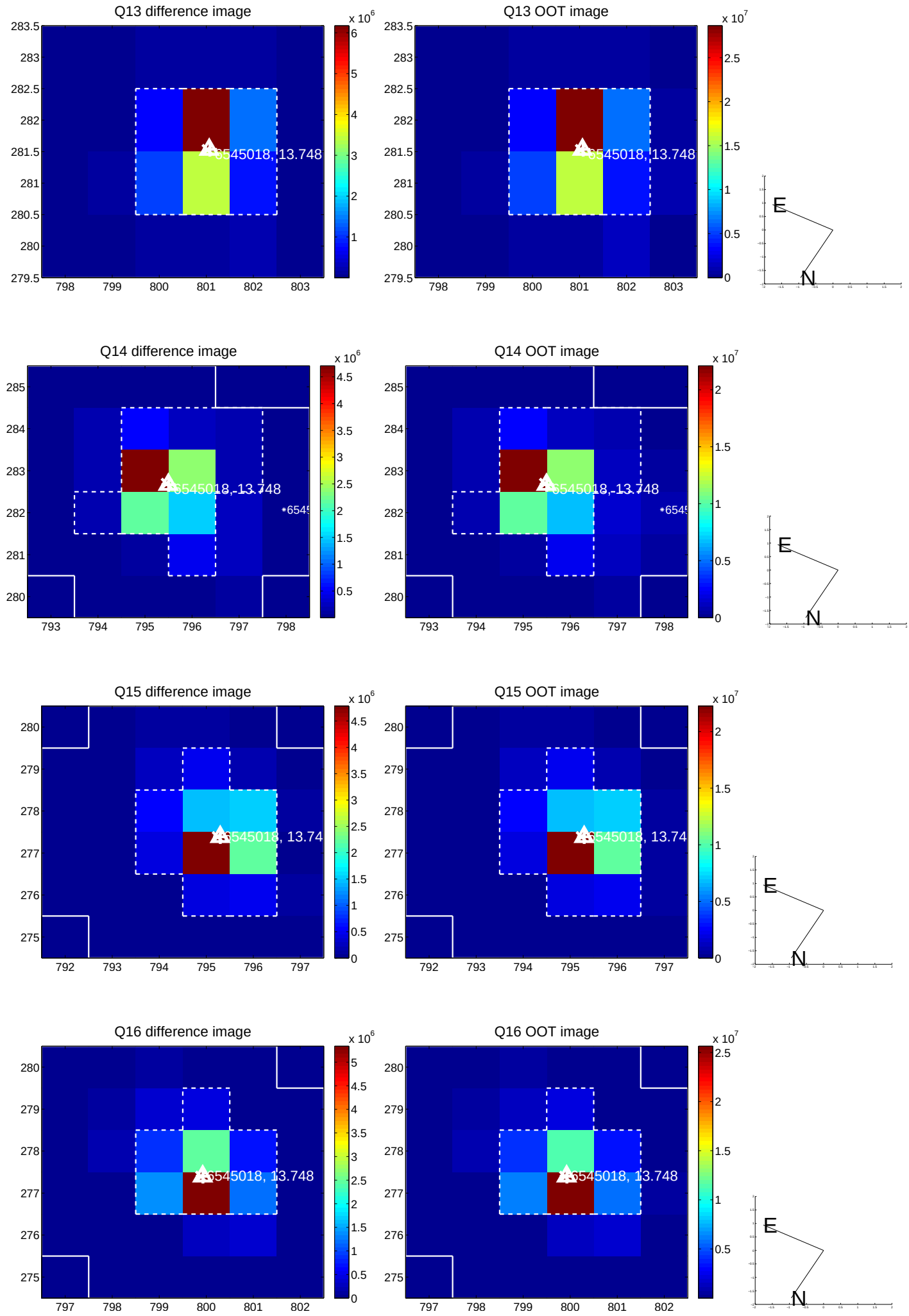
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



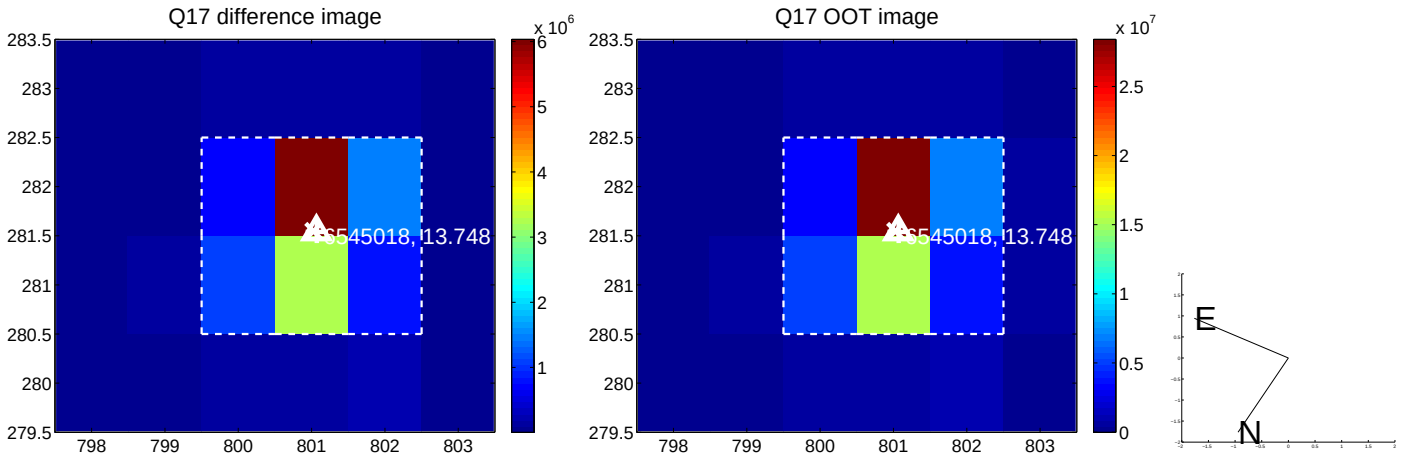
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

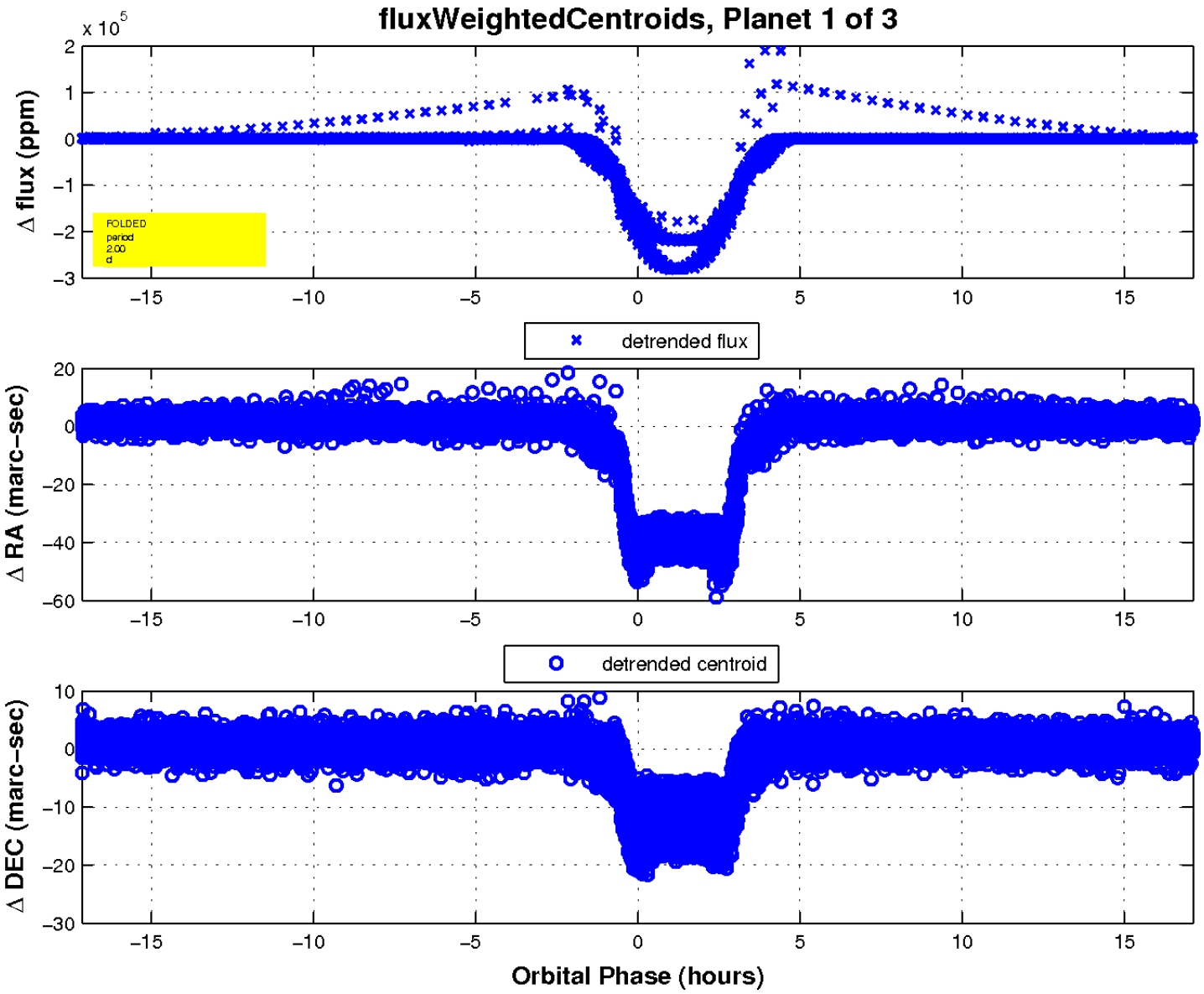


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

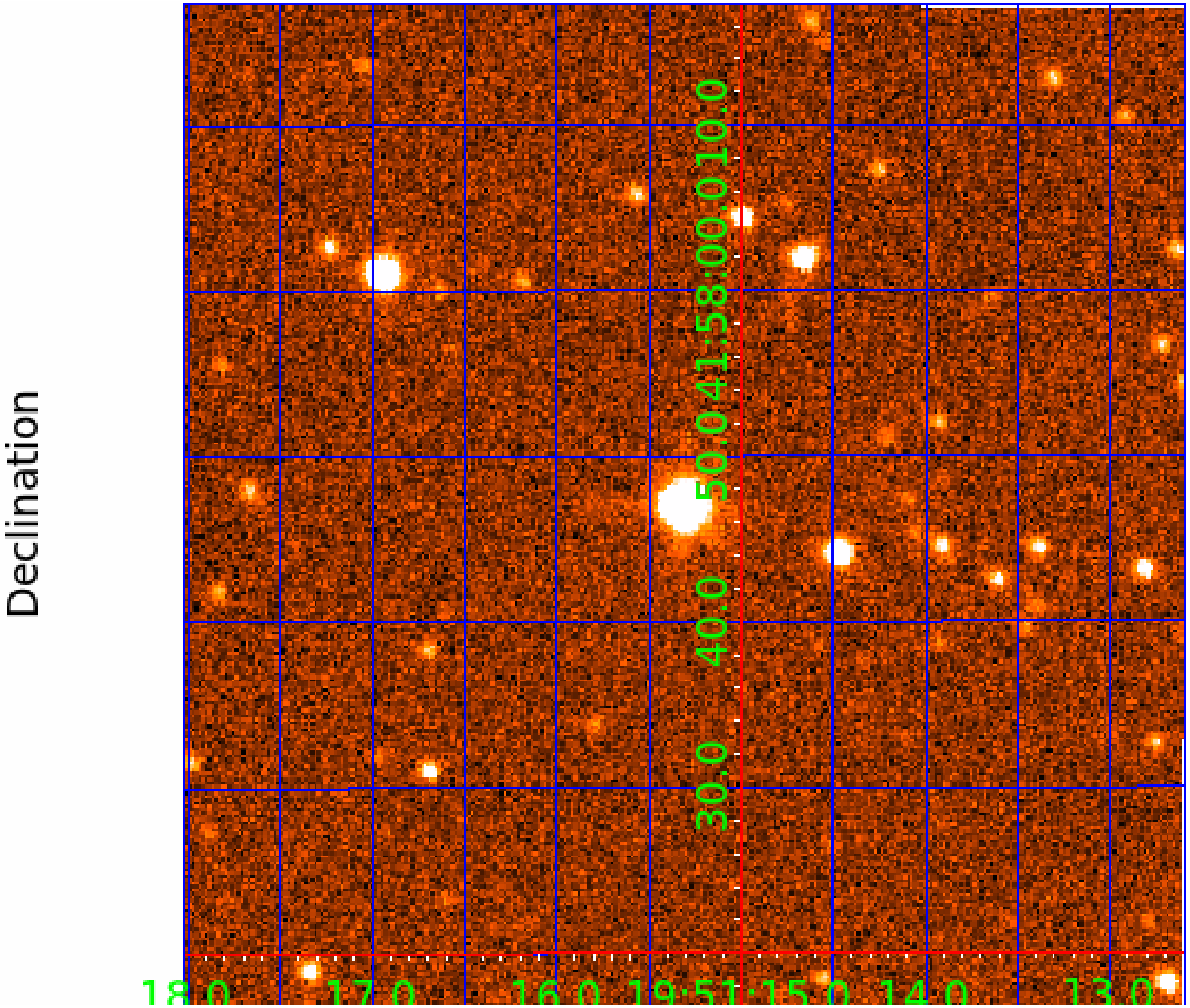


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image


Declination
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17.0
16.0
19:51:15.0
14.0
13.0

KIC 006545018

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 ($S_\oplus$)
006545018-01	OBS	6729.01	1.995710	132.845986	249321.8	3.500	29098.0	-1.0	0.86	5807	38.81	933.05
006545018-02	OBS	No	4.989384	132.593973	16842.1	15.000	1403.9	-1.0	0.86	5807	11.17	274.98
006545018-03	OBS	No	4.989384	133.595217	15139.2	15.000	1191.8	-1.0	0.86	5807	10.59	274.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006545018-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
006545018-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006545018-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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.

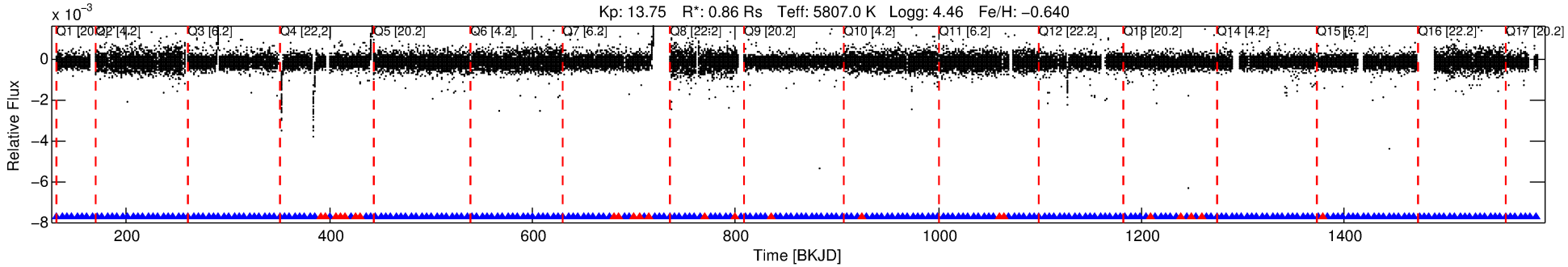
Ephemeris Match Information For 006545018-02

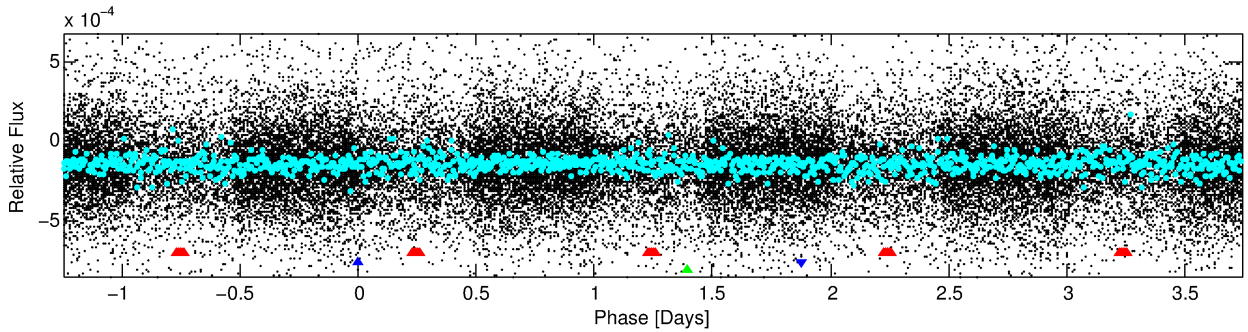
No Significant Match Found

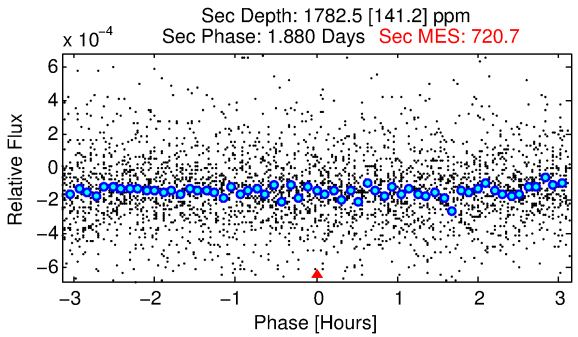
DV One-Page Summary

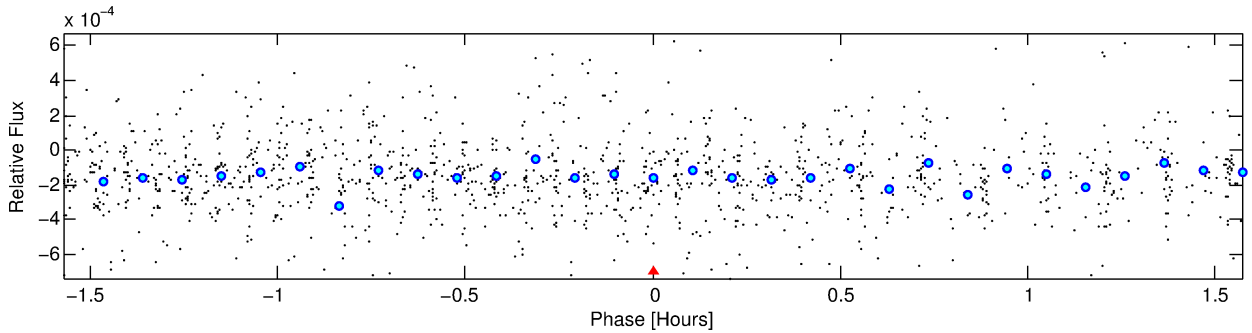
KIC: 6545018 Candidate: 2 of 3 Period: 4.989 d
KOI: K06729 Corr: No Ephemeris Match

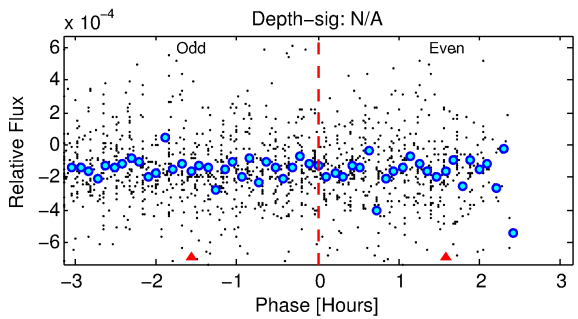
Kp: 13.75 R*: 0.86 Rs Teff: 5807.0 K Logg: 4.46 Fe/H: −0.640

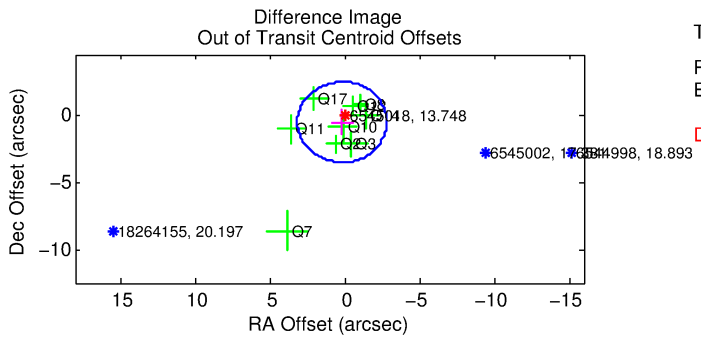












TPS TCE Results:

Period = 4.98938 d
Epoch = 132.5940 BKJD

DV fit results are unavailable

DV Diagnostic Results:

ShortPeriod−sig: 100.0% [4.66σ]
LongPeriod−sig: 0.0% [0.00σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 0.91 [230/253]
GhostDiagnostic−chr: 0.3823

Centroid−sig: N/A
Centroid−so: 5.694 arcsec [1.62σ]
OotOffset−rm: 0.555 arcsec [0.56σ]
KicOffset−rm: 0.569 arcsec [0.57σ]
OotOffset−st: 3/3/1/2 [9]
KicOffset−st: 3/3/1/2 [9]
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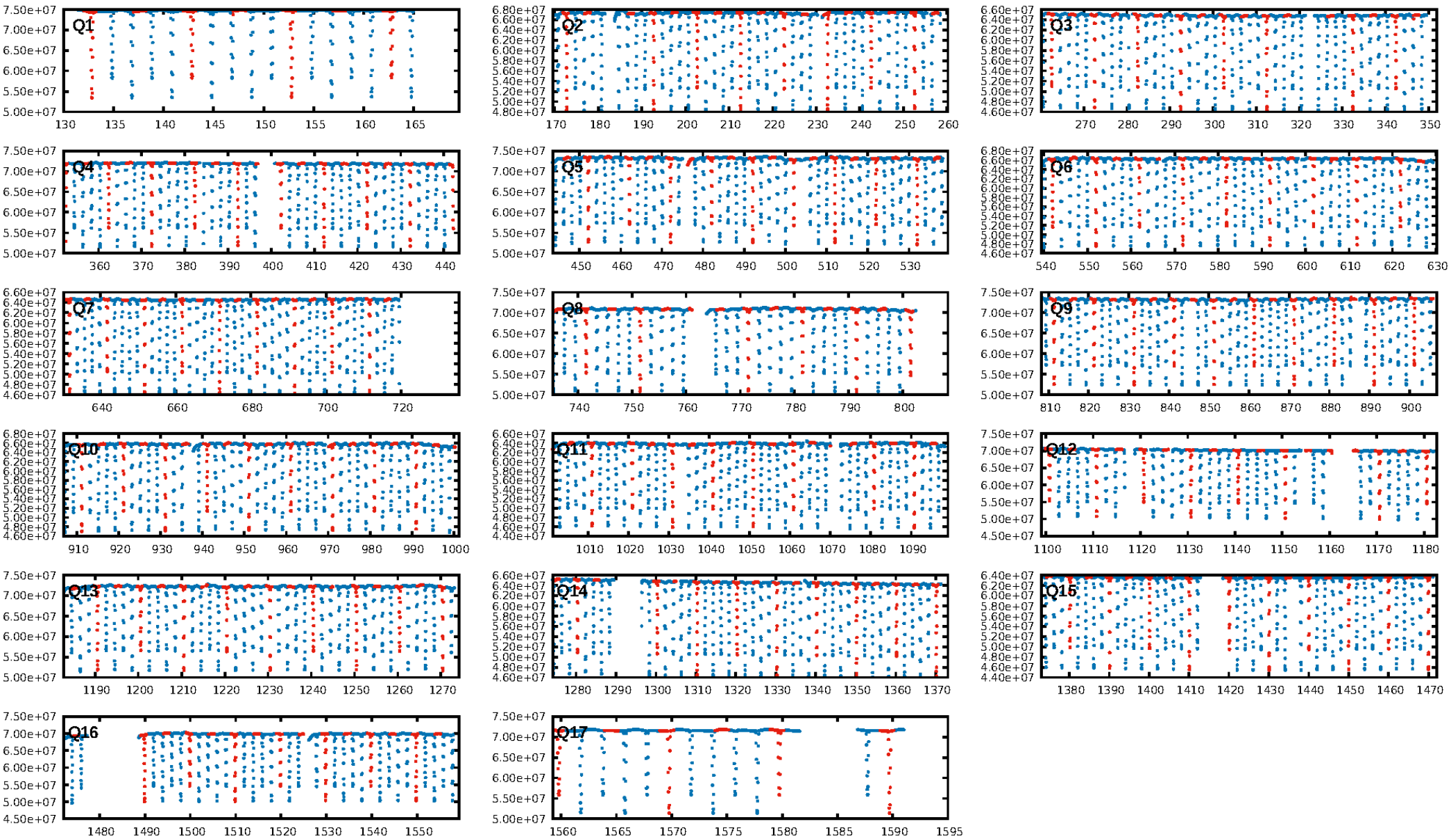
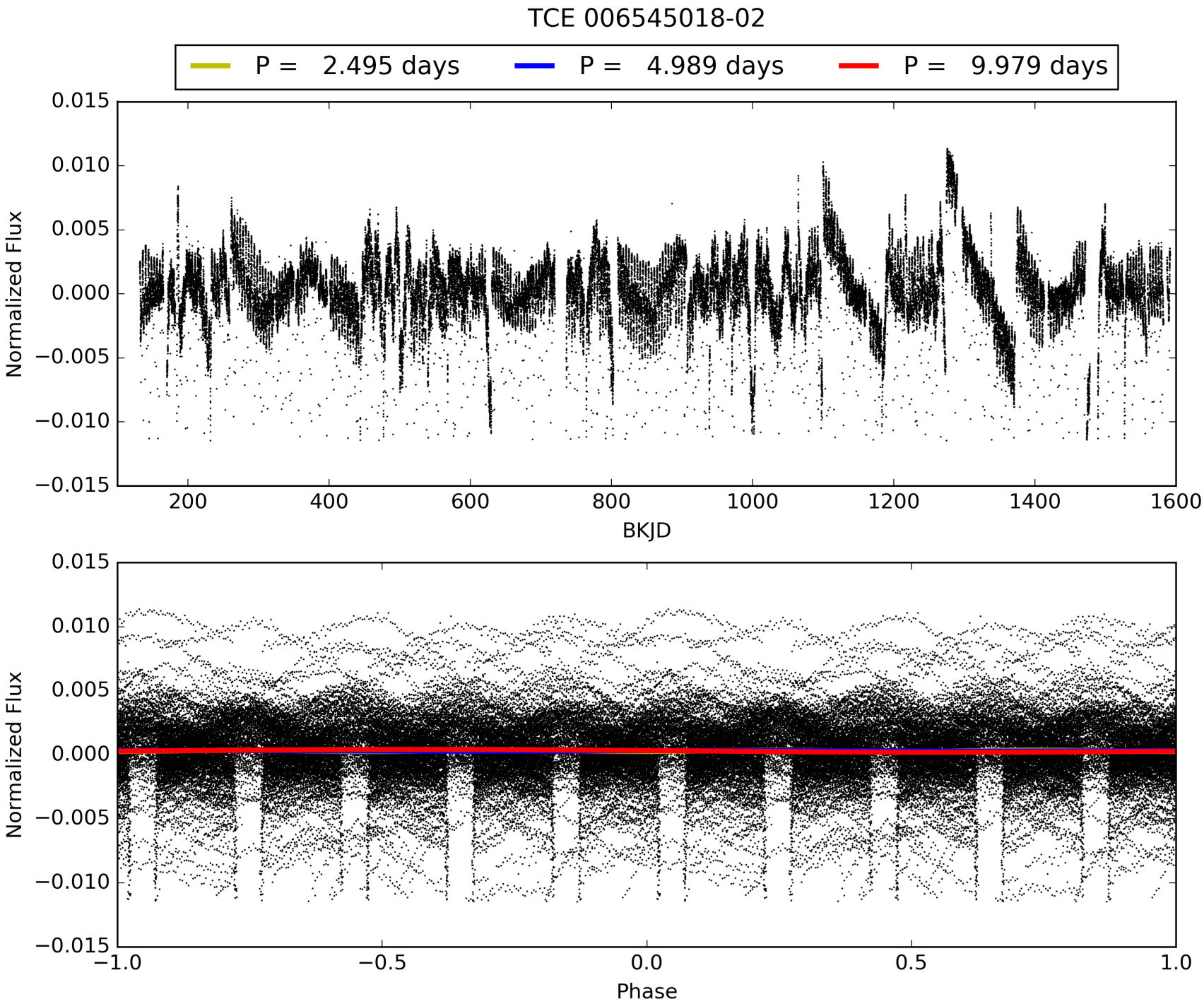
DiffImageOverlap−fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31−Jan−2016 07:45:26 Z

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

TCE 006545018-02, PDC Light Curves

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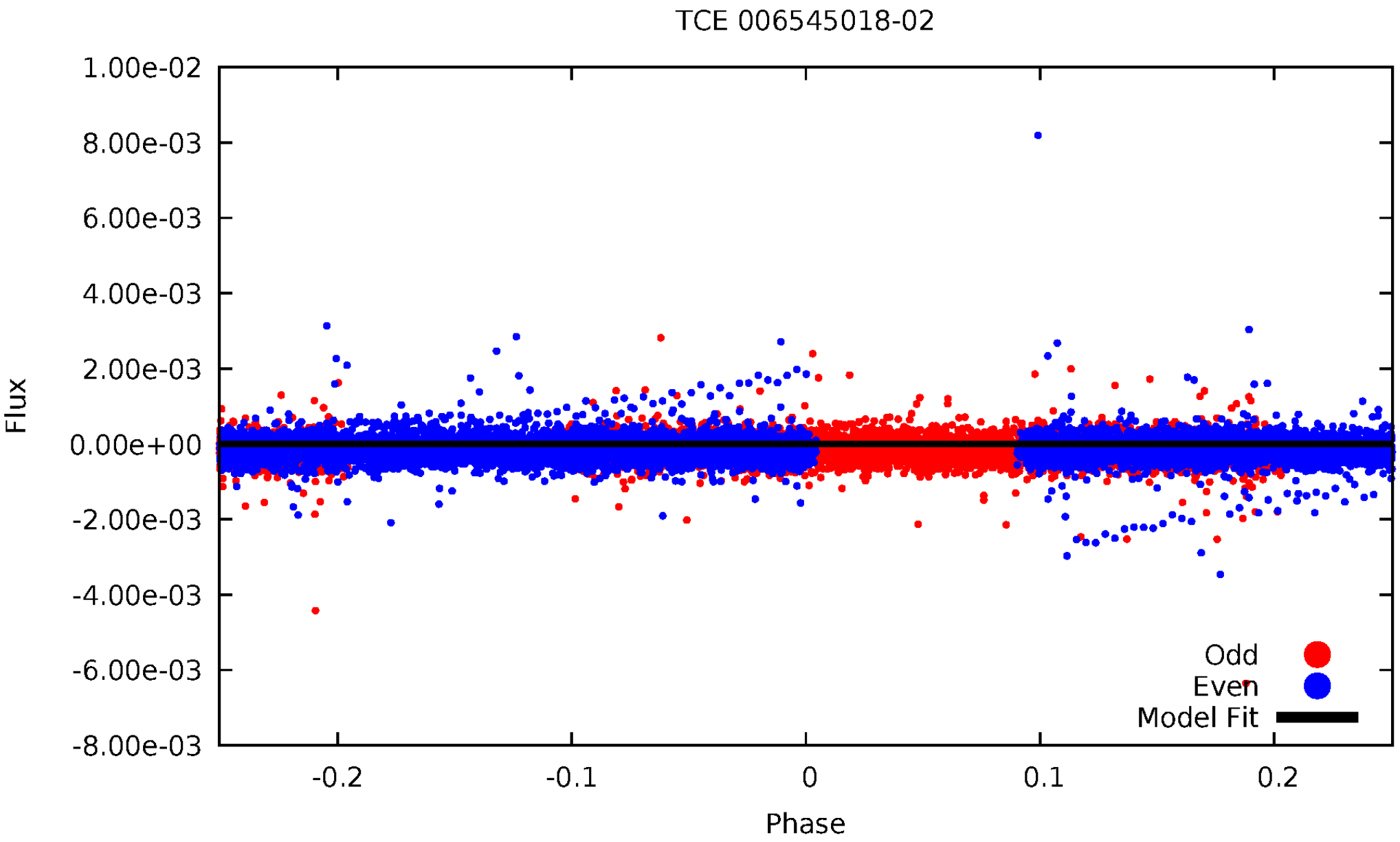
P = 2.495 days
P = 4.989 days
P = 9.979 days
Normalized Flux
BKJD
Normalized Flux
Phase

DV Odd/Even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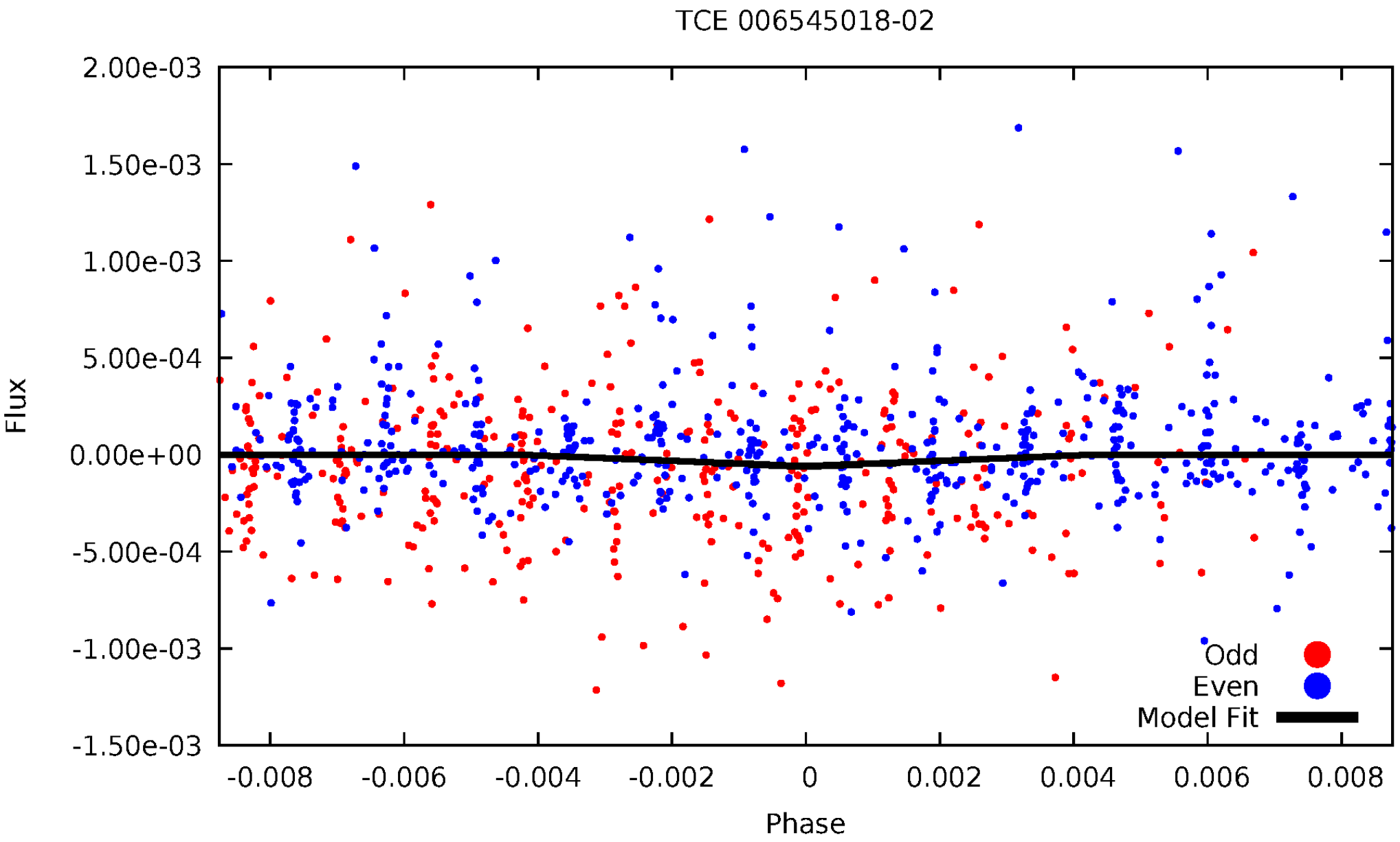
1.00e-02
8.00e-03
6.00e-03
4.00e-03
2.00e-03
0.00e+00
-2.00e-03
-4.00e-03
-6.00e-03
-8.00e-03
Flux
-0.2
-0.1
0
0.1
0.2
Phase
Odd
Even
Model Fit

ALT Odd/Even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1.50e-03
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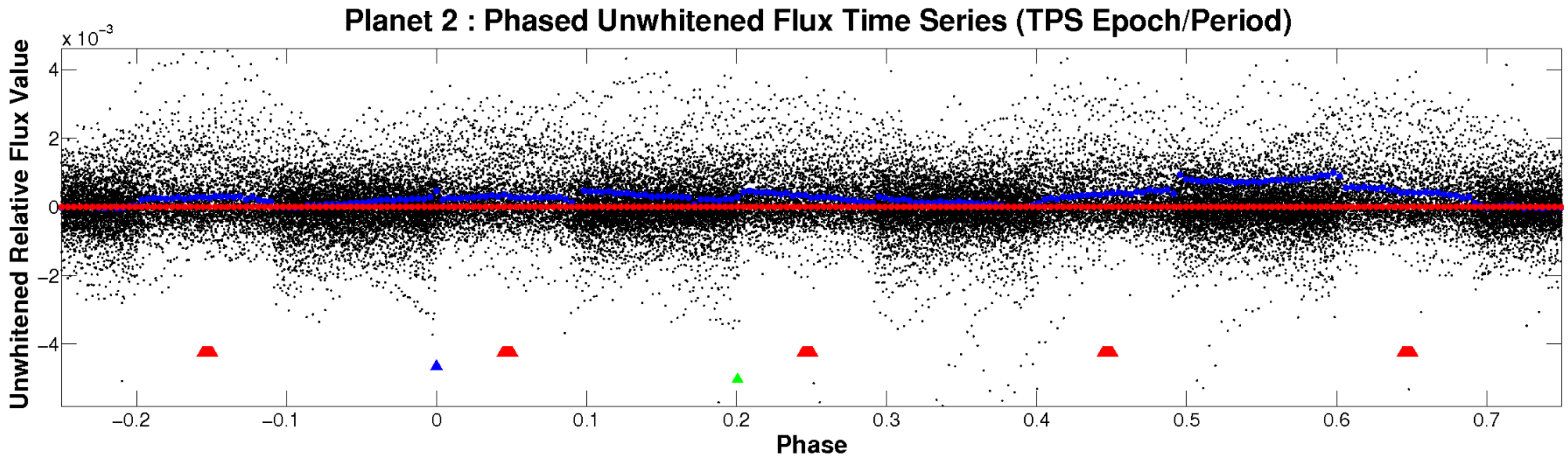
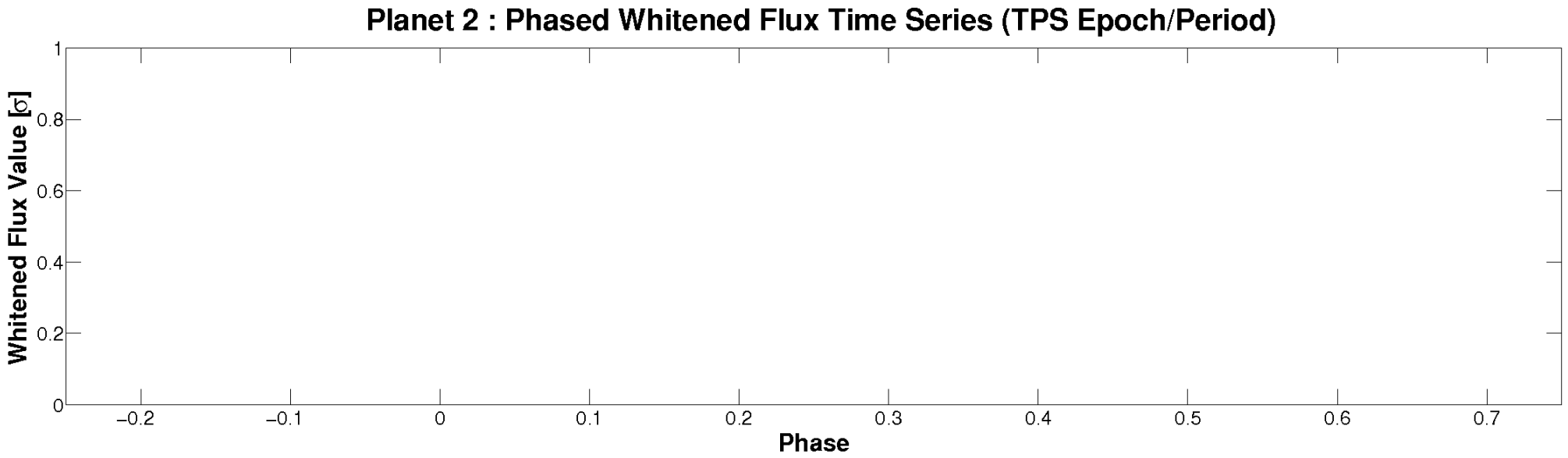
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
Flux
-0.008
-0.006
-0.004
-0.002
0
0.002
0.004
0.006
0.008
Phase
Odd
Even
Model Fit

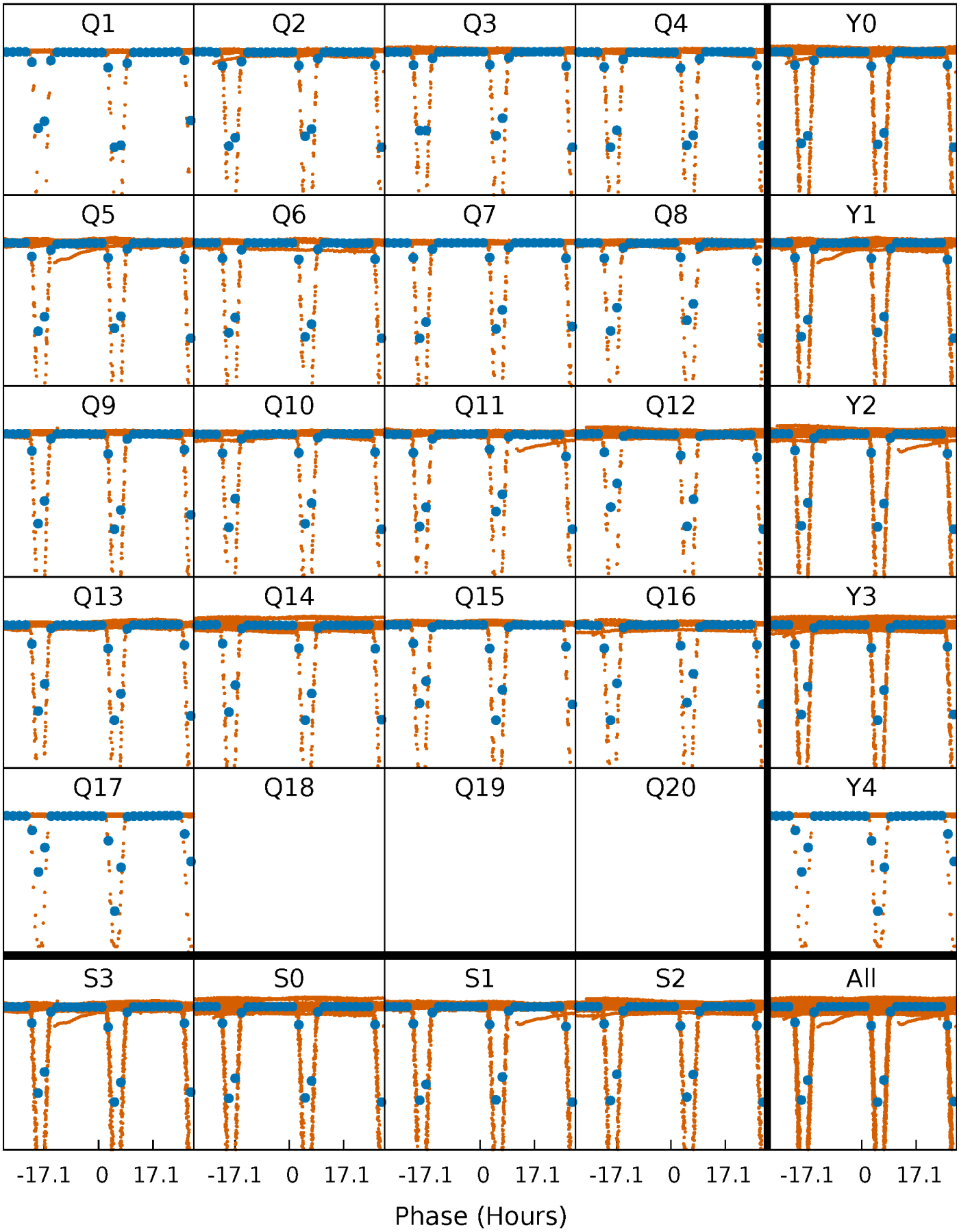
Non-Whitened Vs. Whitened Light Curve





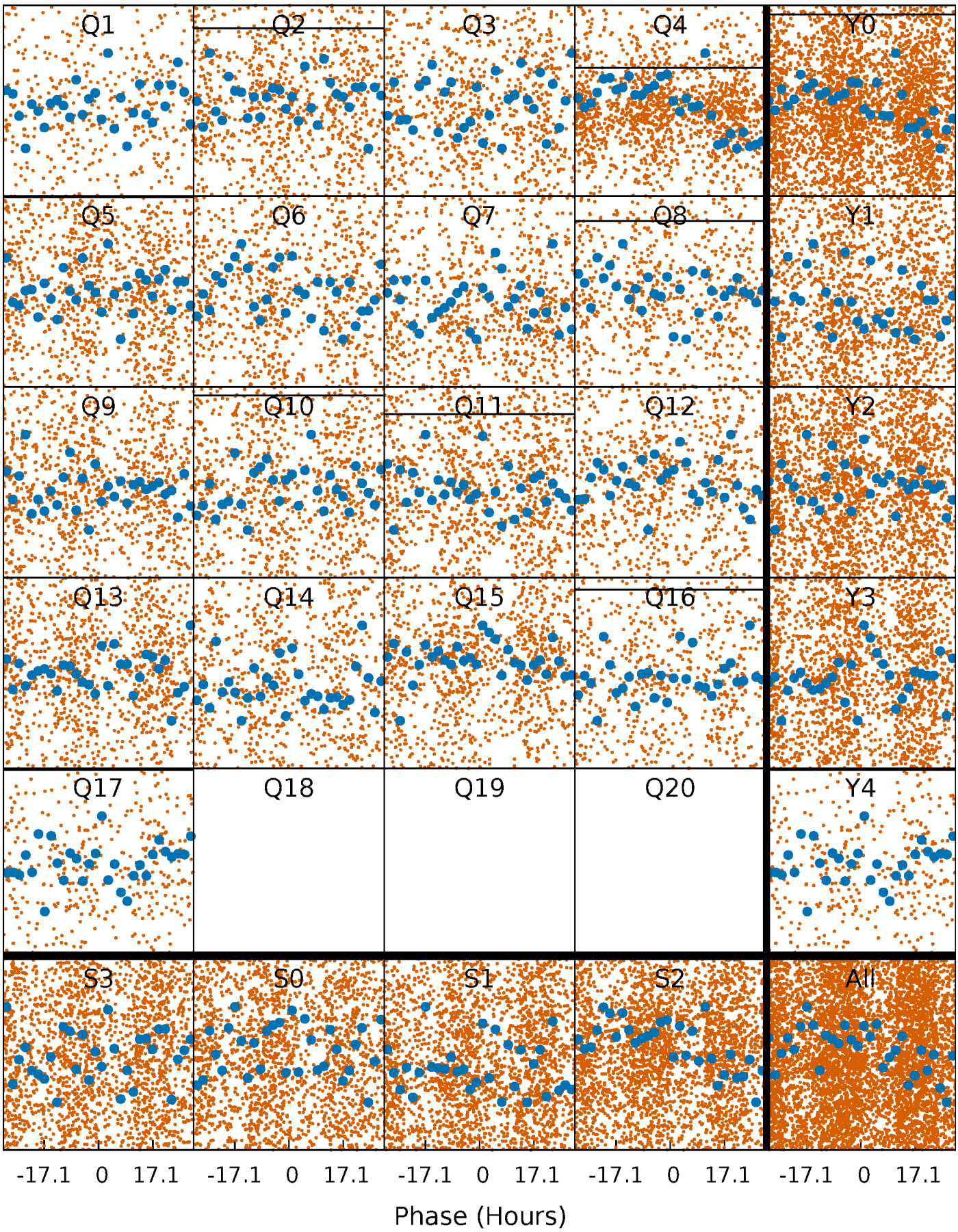
PDC Quarter-Phased Transit Curves

TCE 006545018-02 P= 4.989384 Days T_0=132.593973 (BKJD)



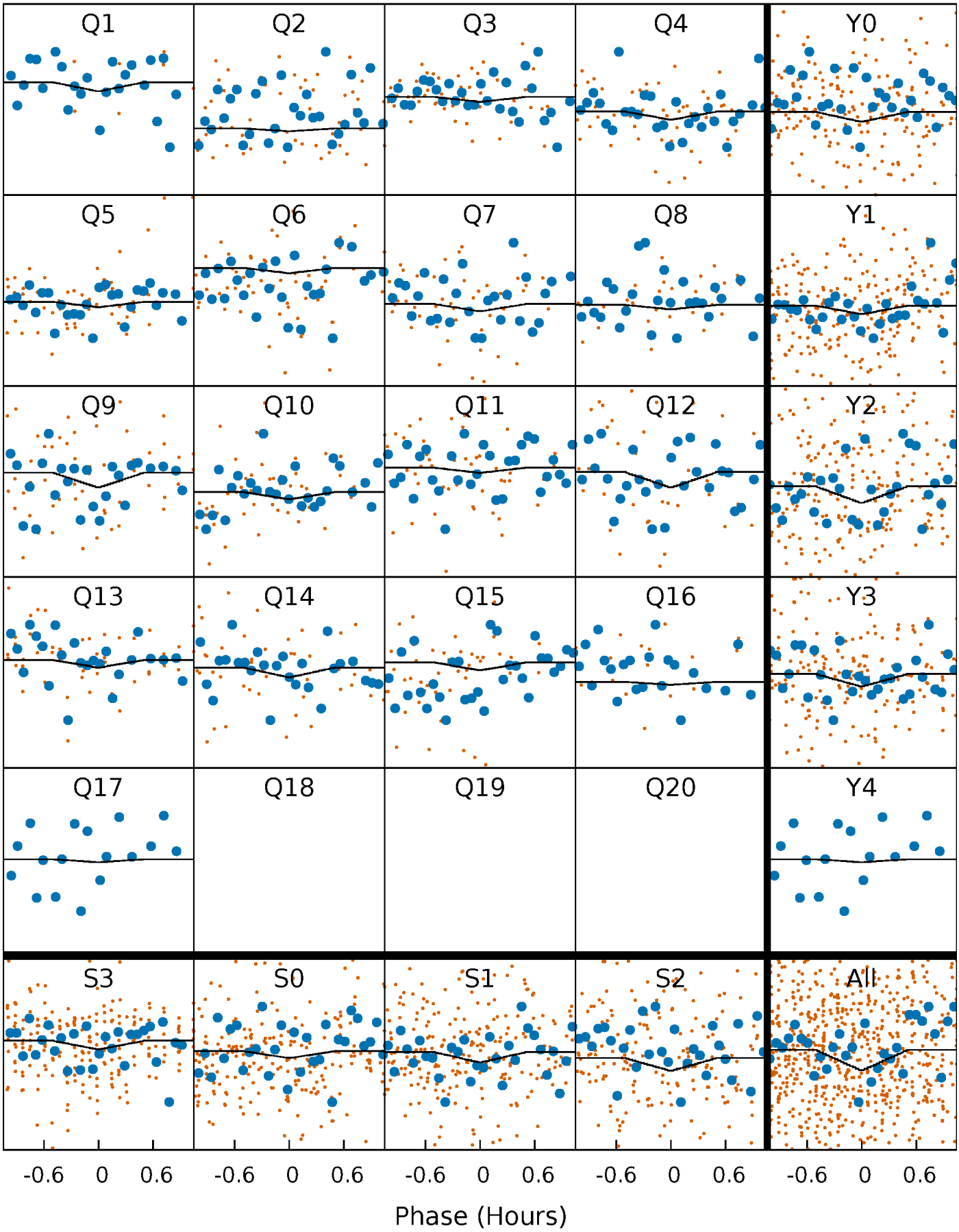
DV Quarter-Phased Transit Curves

TCE 006545018-02 P= 4.989384 Days T_0=132.593973 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

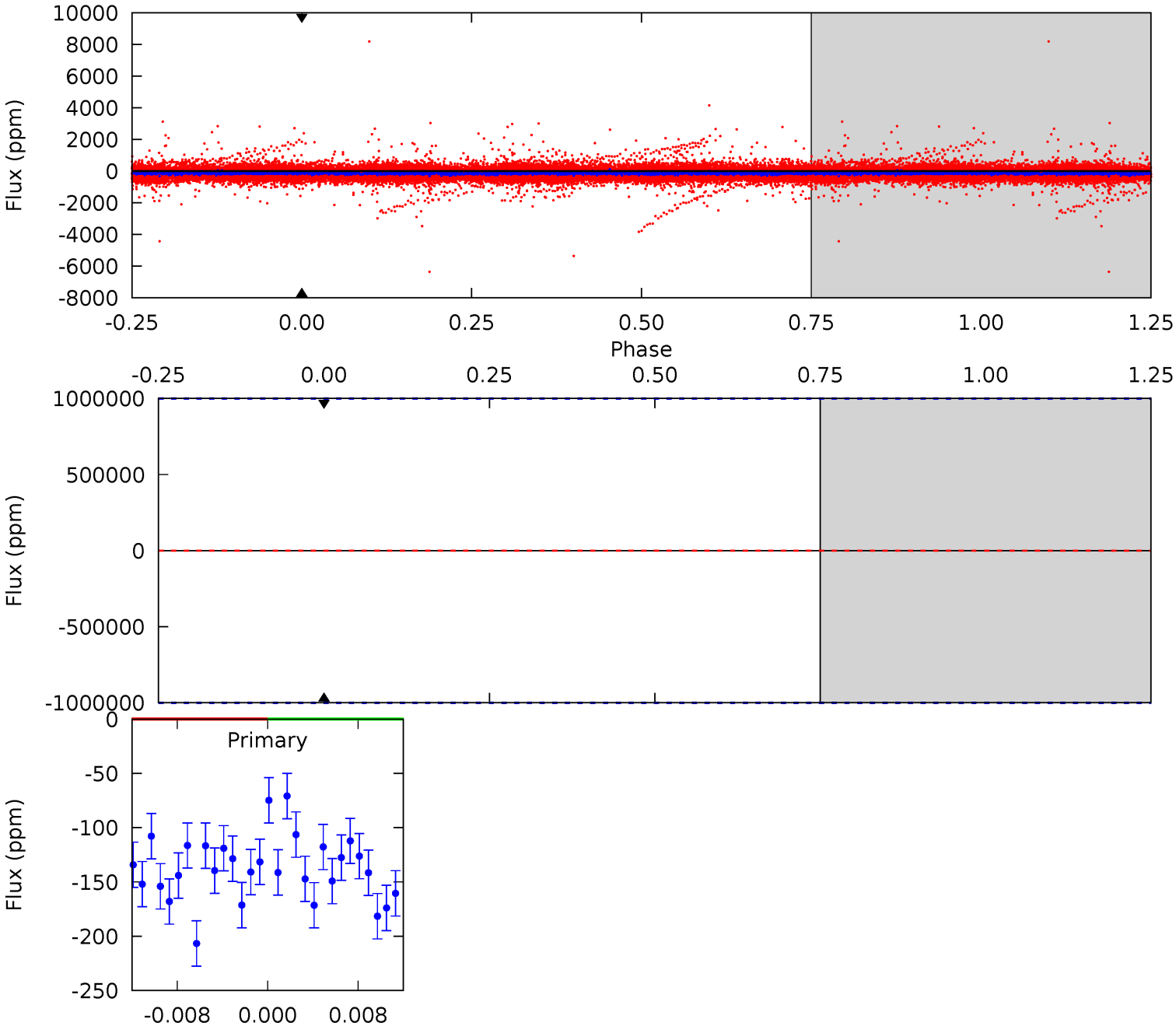
TCE 006545018-02 P= 4.989384 Days T_0=131.584365 (BKJD)



DV Model-Shift Uniqueness Test

006545018-02, P = 4.989384 Days, E = 127.604589 Days

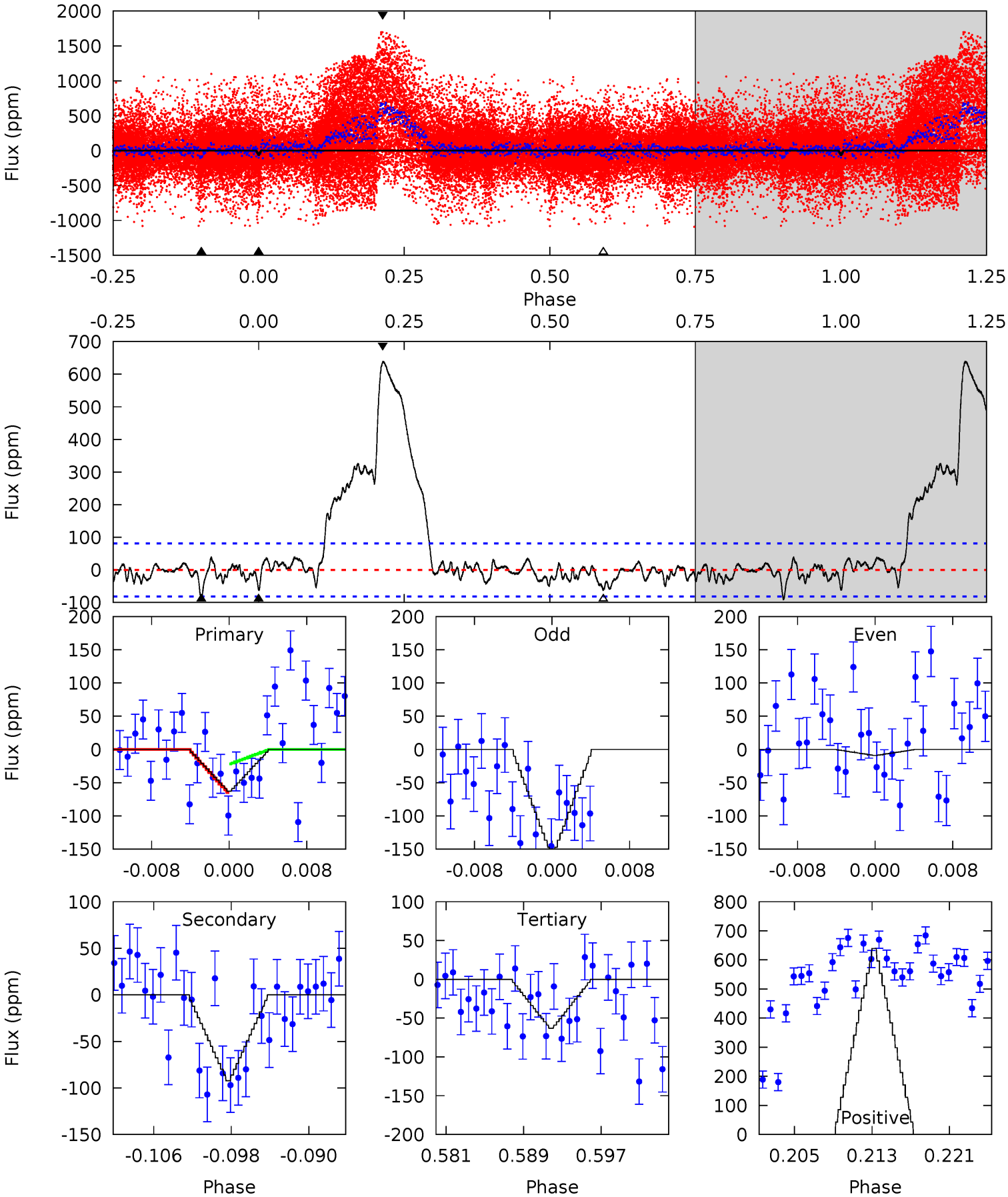
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006545018-02, P = 4.989384 Days, E = 126.594981 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.91	5.74	3.93	39.8	5.06	2.64	8.36	-0.02	-35.9	1.81	-34.0	4.28	0.98	0.87	1.22



Stellar Parameters For KIC 006545018

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5807^{+157}_{-157}	$4.455^{+0.130}_{-0.159}$	$-0.640^{+0.300}_{-0.300}$	$0.861^{+0.188}_{-0.126}$	$0.771^{+0.100}_{-0.046}$	$1.702^{+0.970}_{-0.717}$
	+3%/-3%	+3%/-4%	+47%/-47%	+22%/-15%	+13%/-6%	+57%/-42%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006545018-02 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0±1000000	$13.22^{+8.91}_{-8.00}$	1458^{+92}_{-71}	-3037^{+14464}_{-7222}	$-4.118^{+1512.112}_{-1220.214}$
Alt.	-92±16	$6.75^{+7.21}_{-4.80}$	1457^{+90}_{-84}	2802^{+1409}_{-576}	$3.014^{+33.977}_{-2.316}$

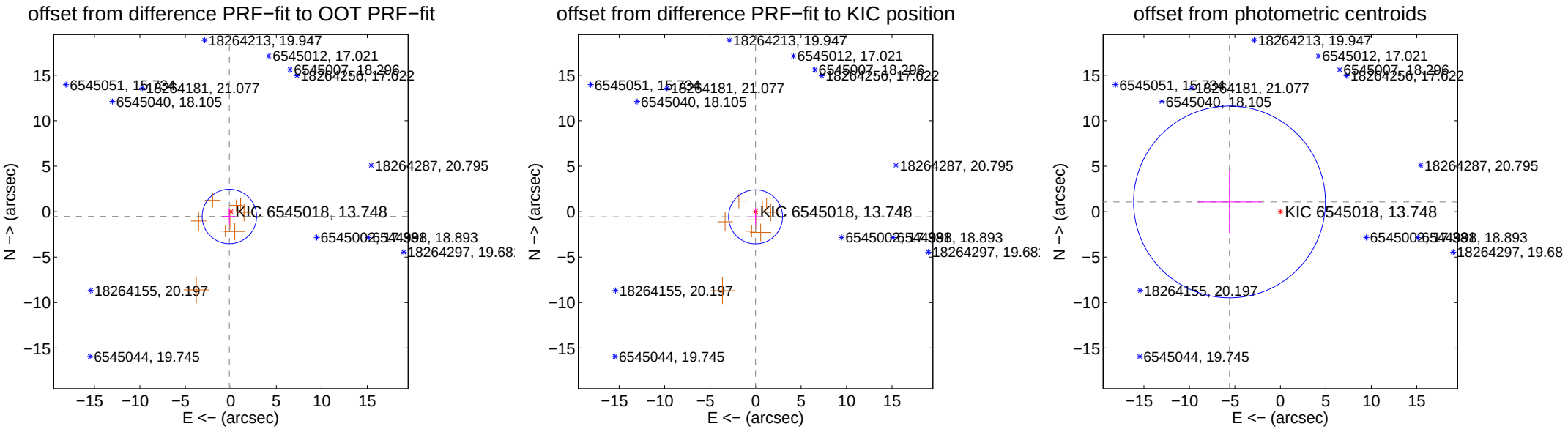
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

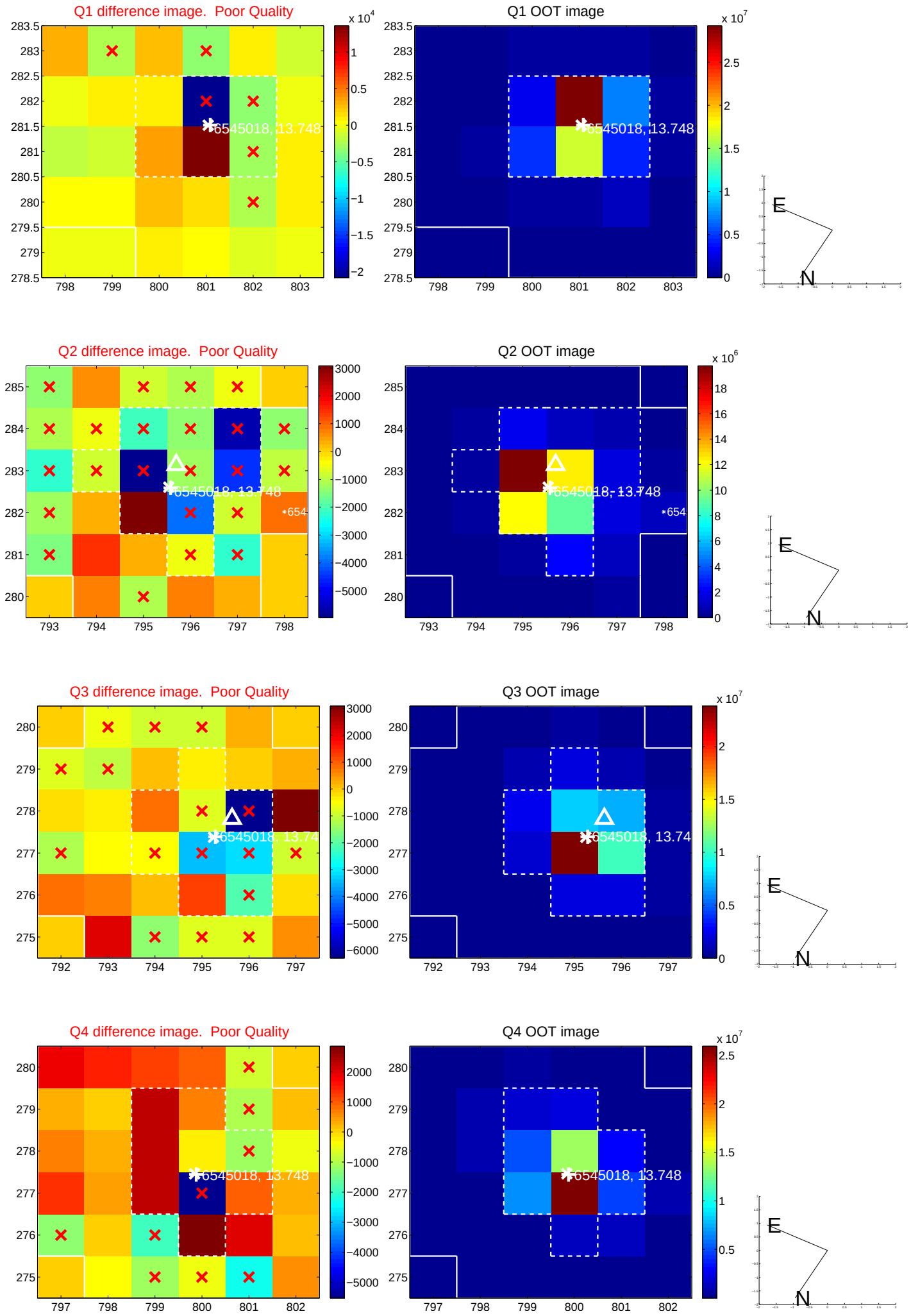
Supplemental centroid analysis for 006545018-02. Kepler magnitude: 13.75. Transit SNR -1.00
There are 0 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.555 ± 0.998	0.56	0.162 ± 0.664	-0.531 ± 0.912
PRF-fit source offset from KIC position	0.569 ± 0.990	0.57	0.005 ± 0.639	-0.569 ± 0.986
photometric centroid source offset	5.69 ± 3.51	1.62	5.59 ± 3.52	1.07 ± 3.41

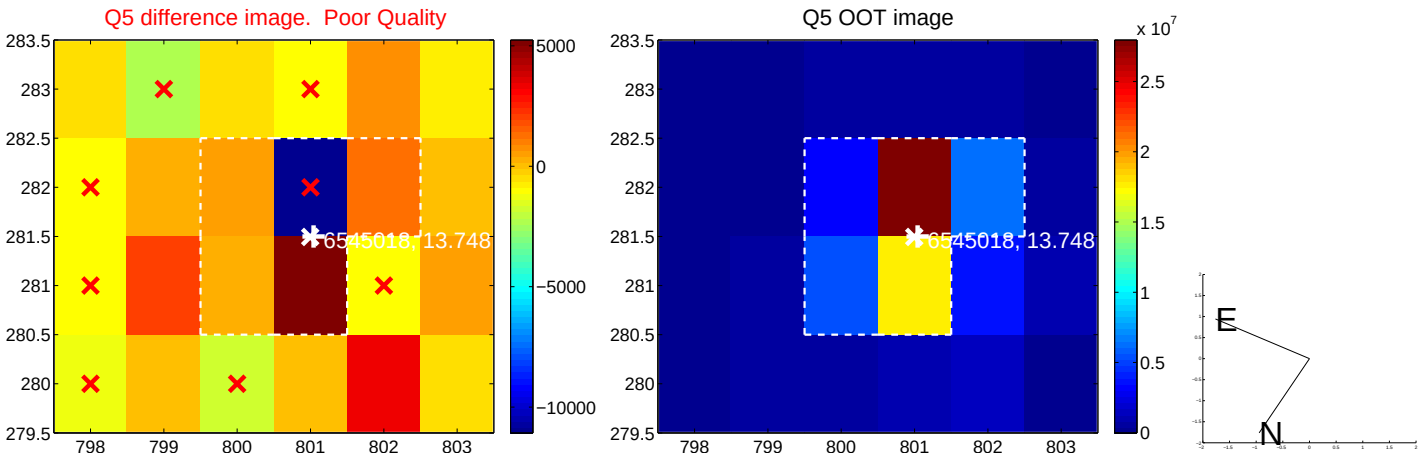


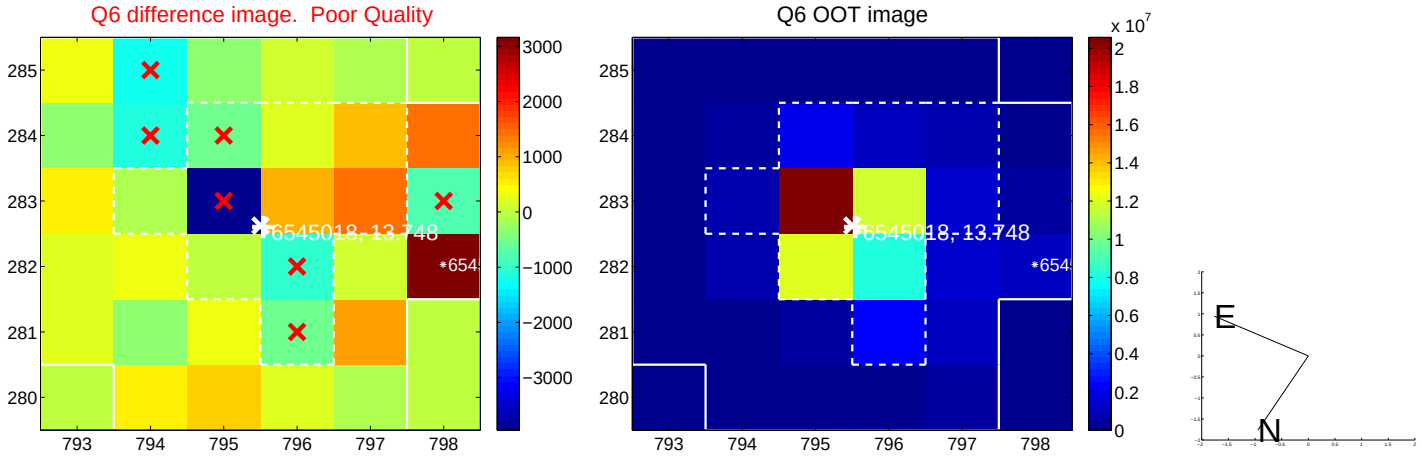
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

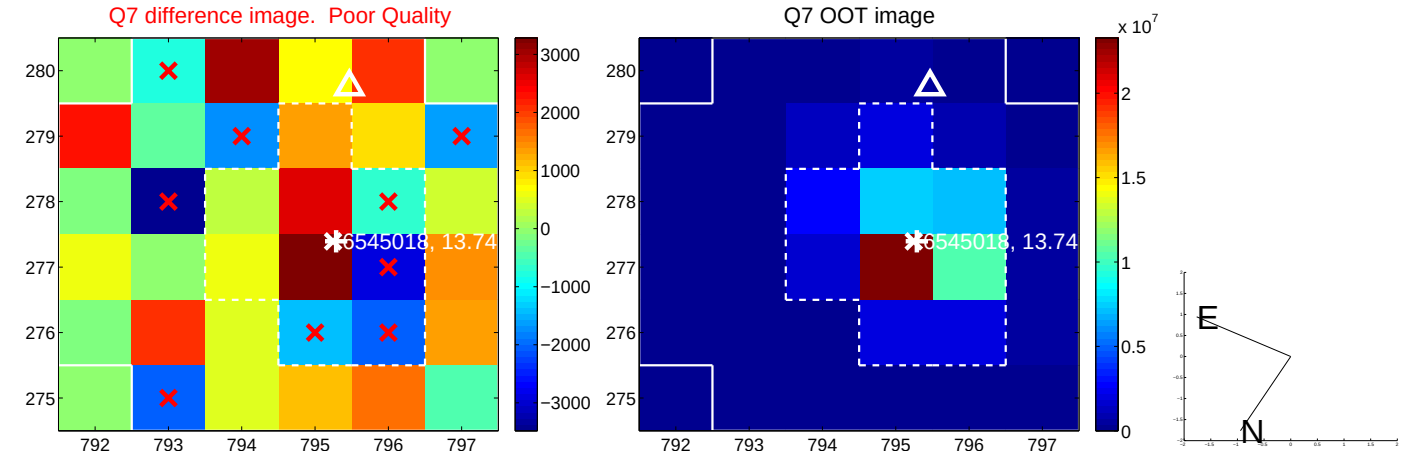
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

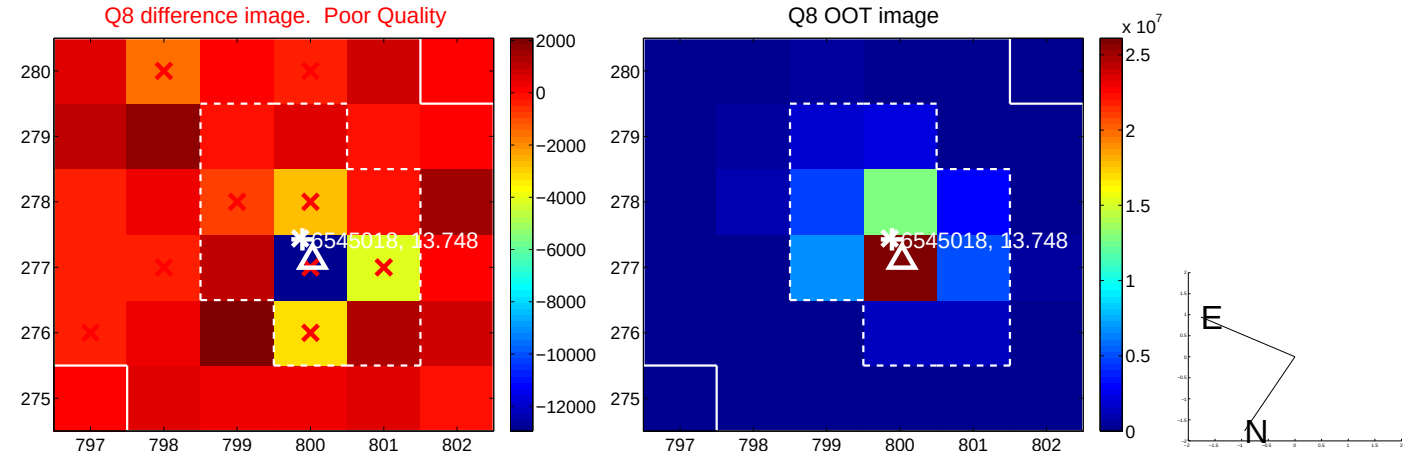


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

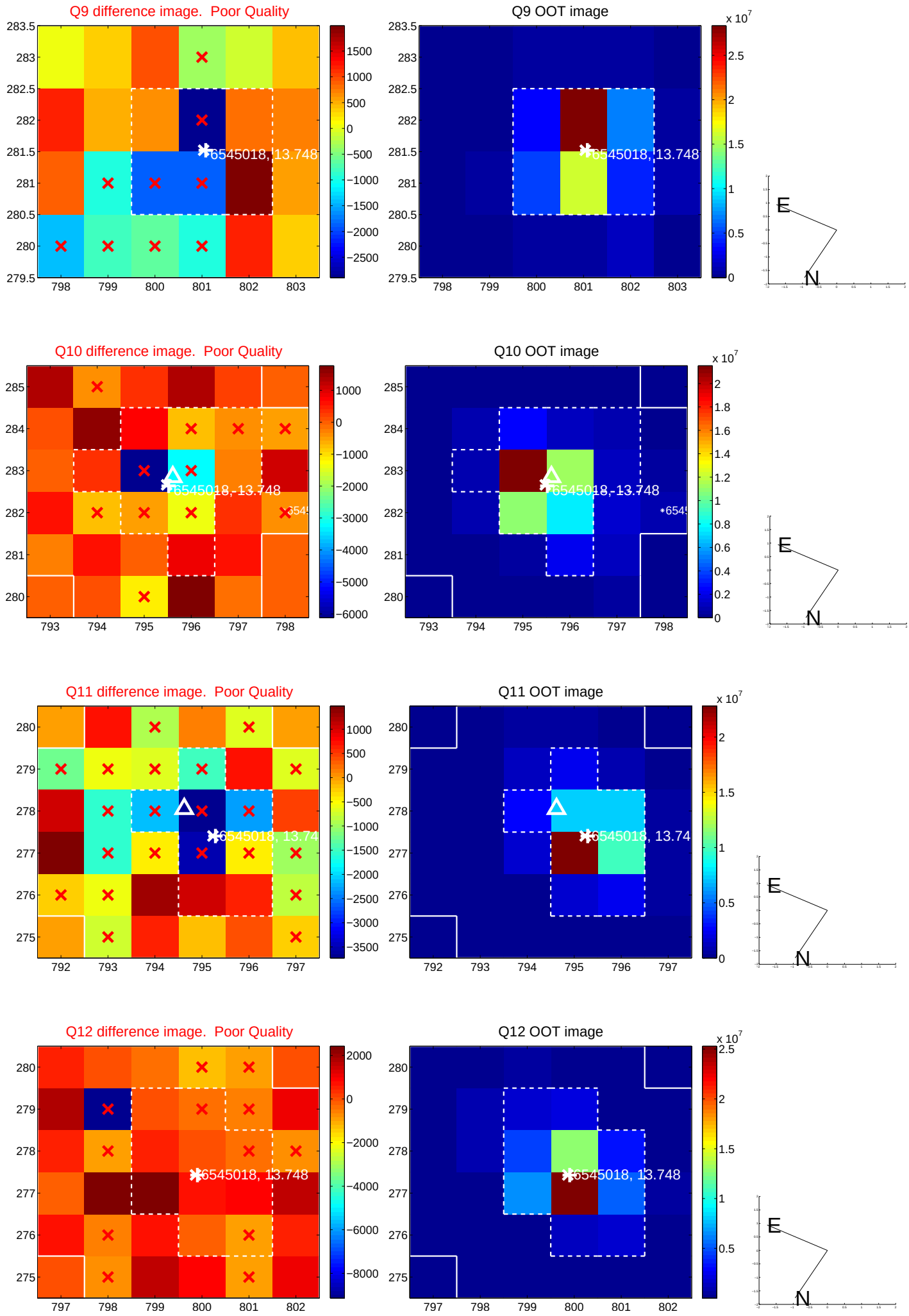




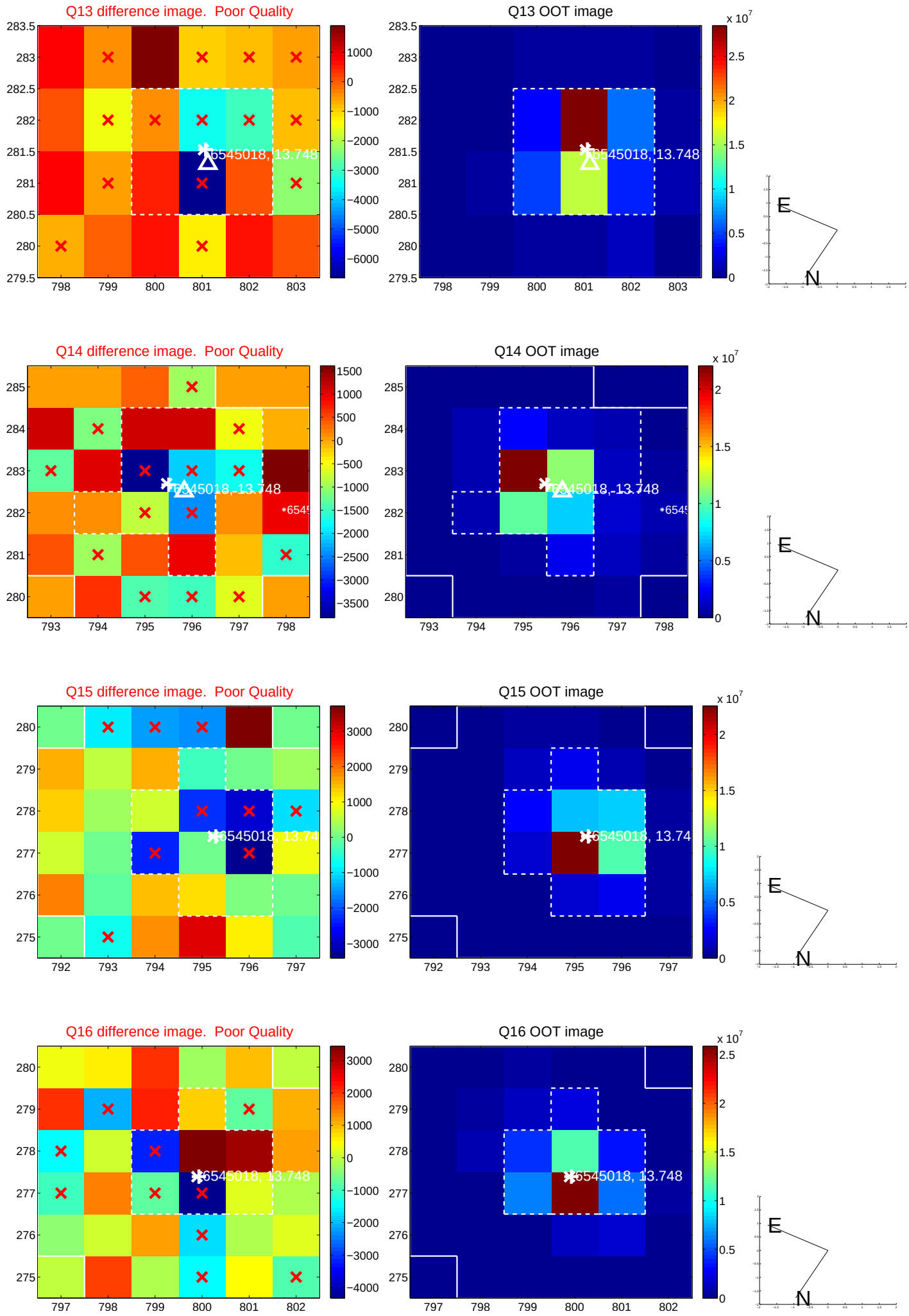




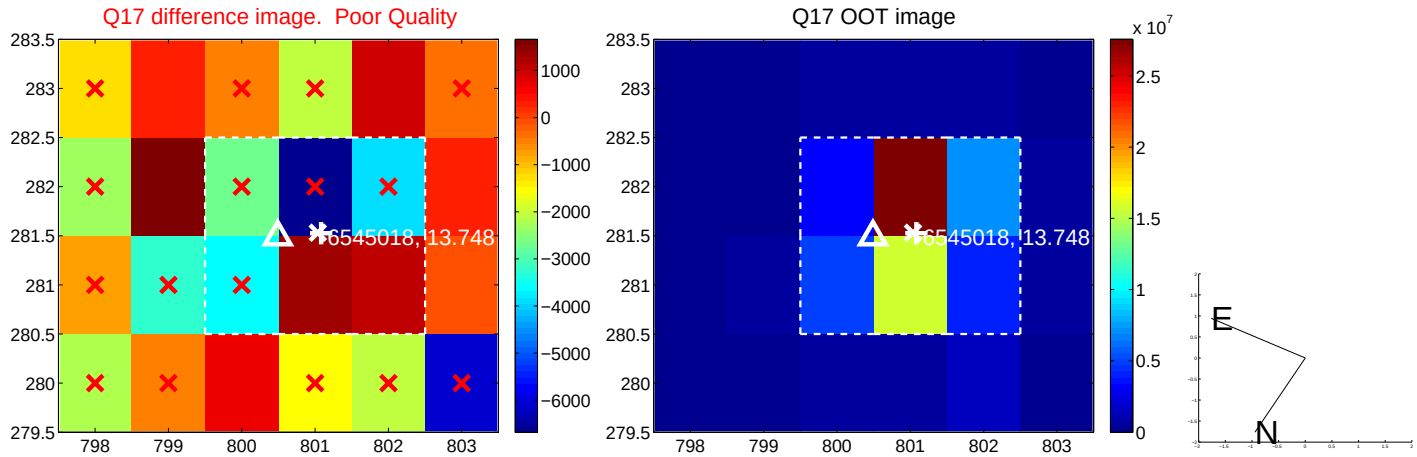
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

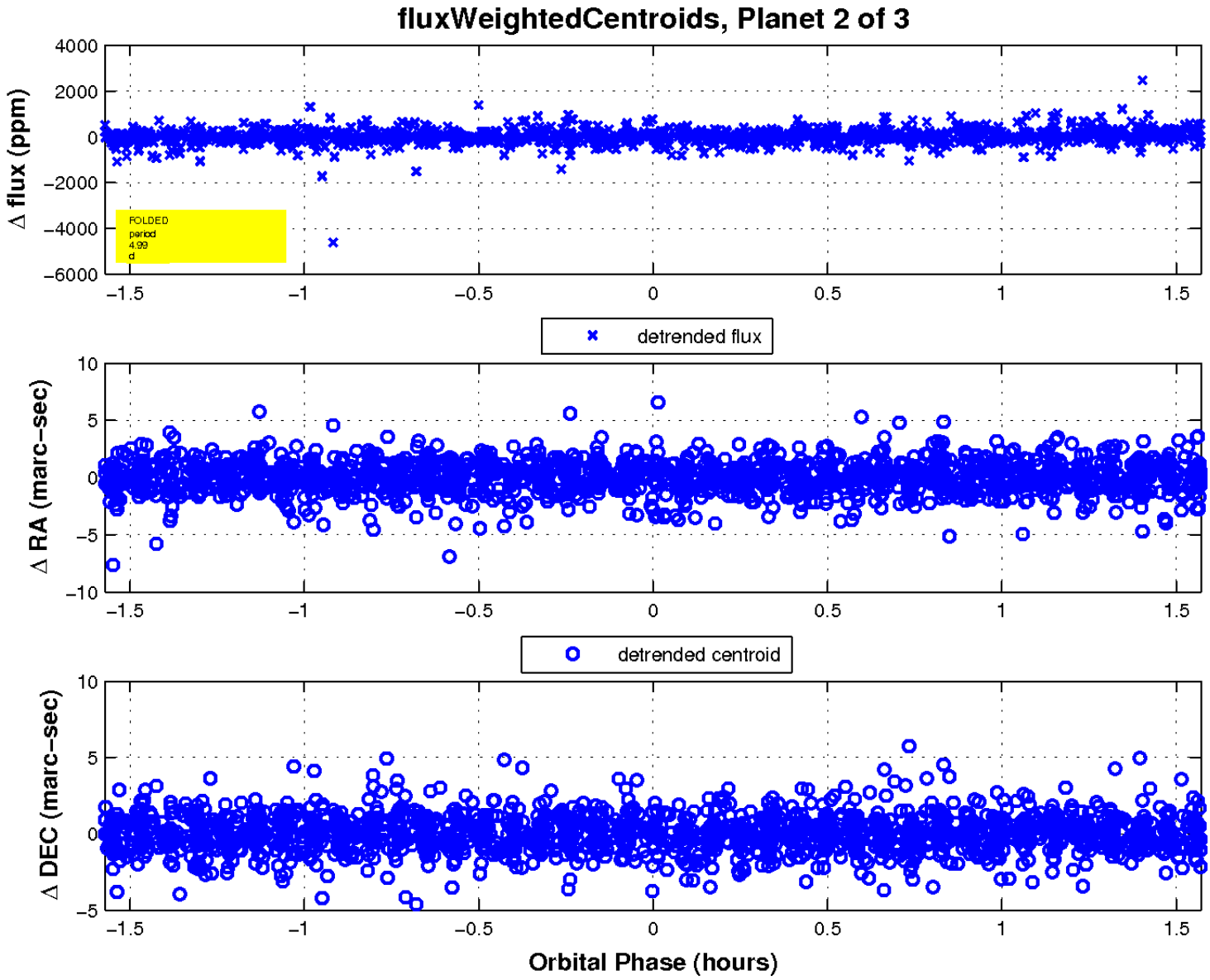


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

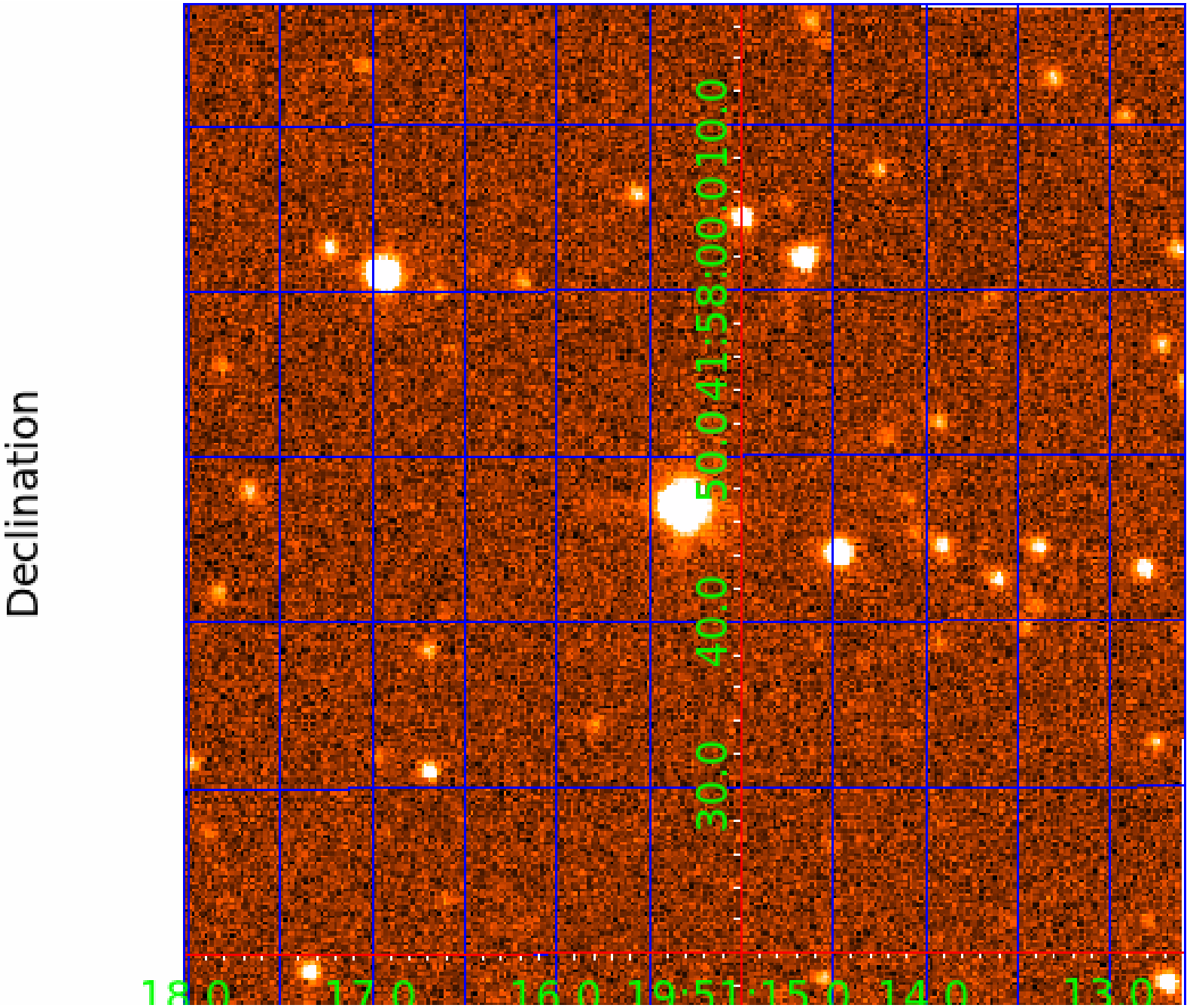


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image


Declination
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41:58:00.0
40.0
30.0
18.0
17.0
16.0
19:51:15.0
14.0
13.0

KIC 006545018

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 ($S_\oplus$)
006545018-01	OBS	6729.01	1.995710	132.845986	249321.8	3.500	29098.0	-1.0	0.86	5807	38.81	933.05
006545018-02	OBS	No	4.989384	132.593973	16842.1	15.000	1403.9	-1.0	0.86	5807	11.17	274.98
006545018-03	OBS	No	4.989384	133.595217	15139.2	15.000	1191.8	-1.0	0.86	5807	10.59	274.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006545018-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_ALT—CENT_NOFITS
006545018-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_NOFITS
006545018-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_NOFITS

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.

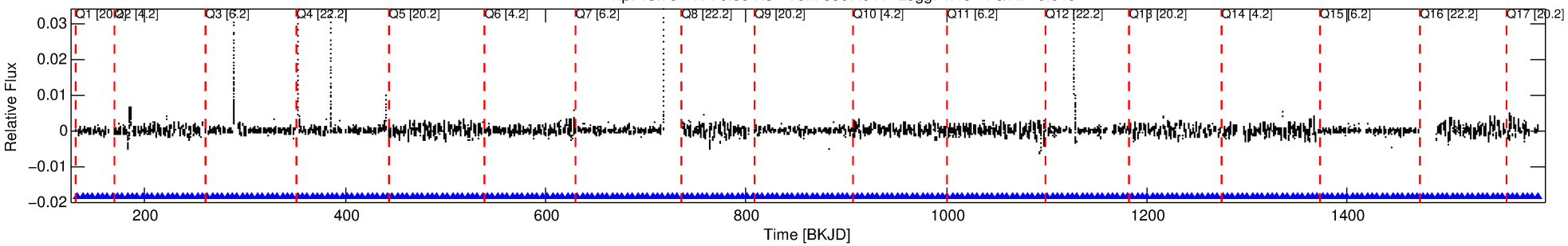
Ephemeris Match Information For 006545018-03

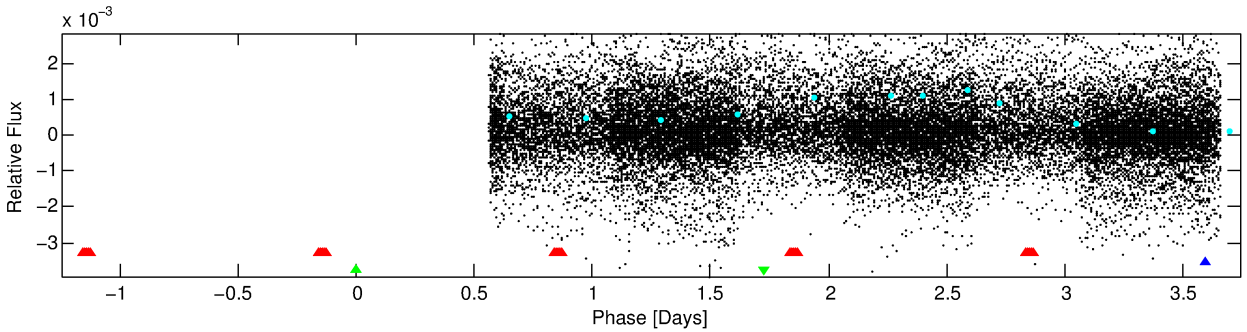
No Significant Match Found

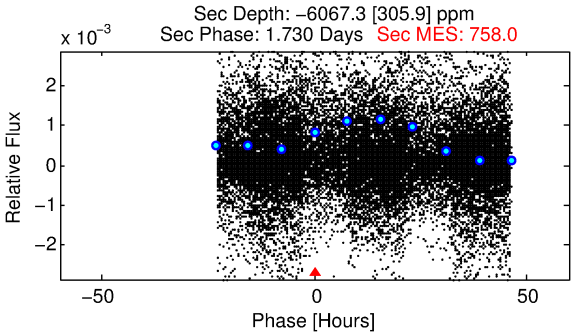
DV One-Page Summary

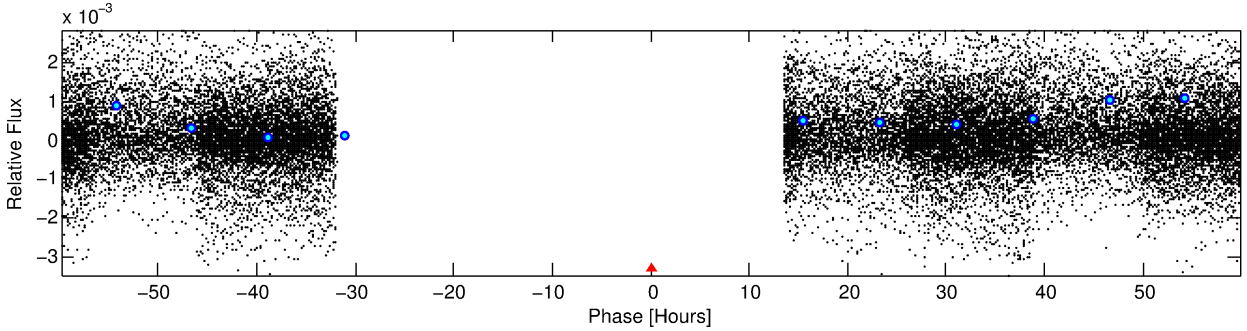
KIC: 6545018 Candidate: 3 of 3 Period: 4.989 d
KOI: K06729 Corr: No Ephemeris Match

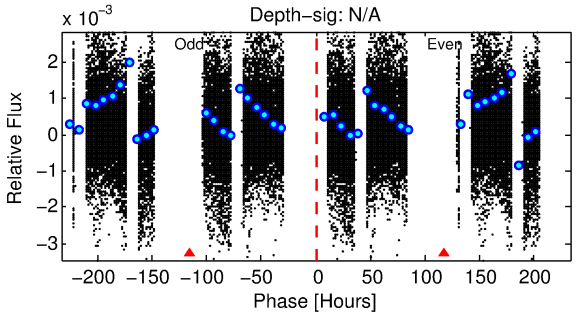
Kp: 13.75 R*: 0.86 Rs Teff: 5807.0 K Logg: 4.46 Fe/H: −0.640

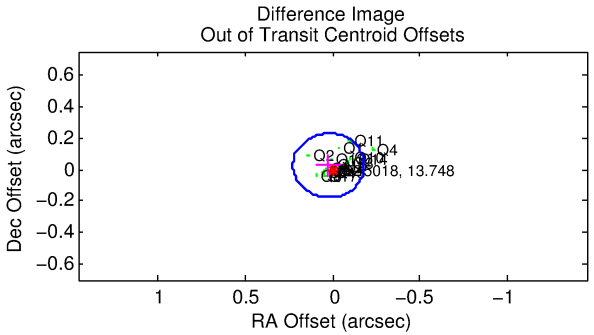












TPS TCE Results:

Period = 4.98938 d
Epoch = 133.5952 BKJD

DV fit results are unavailable

DV Diagnostic Results:

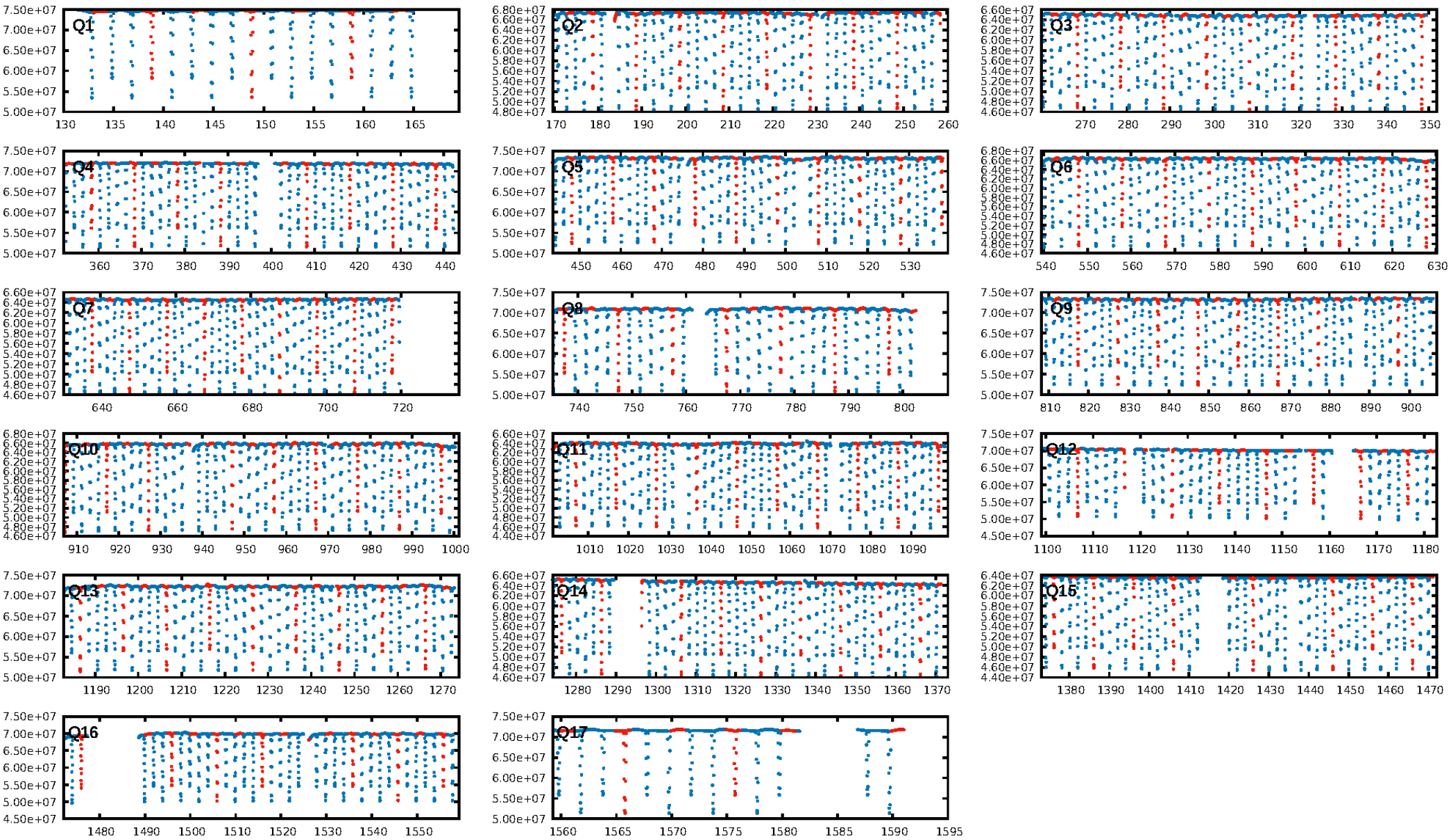
ShortPeriod−sig: 0.0% [0.00σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: N/A
RollingBand−fgt: 1.00 [254/254]
GhostDiagnostic−chr: 1.077

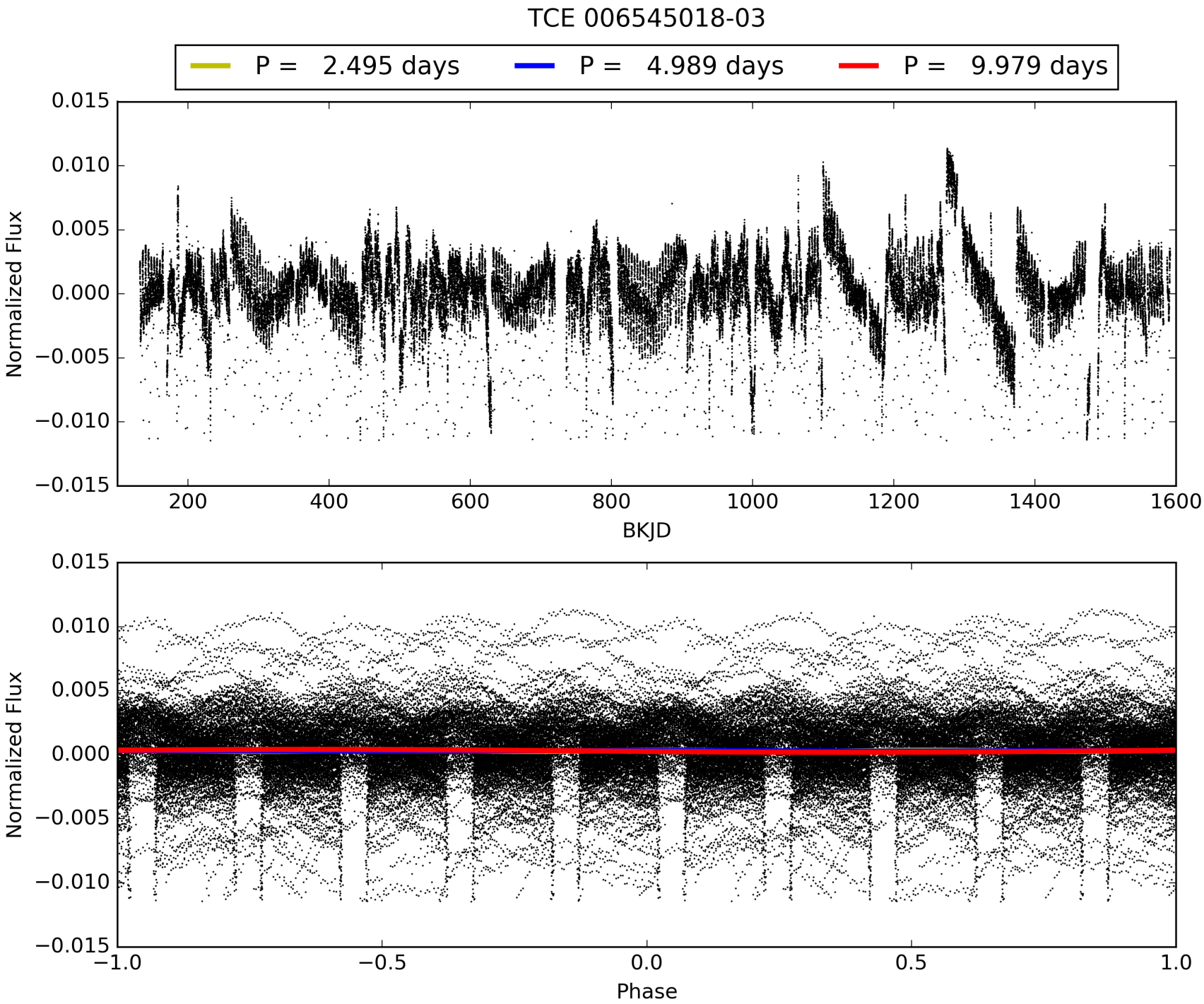
Centroid−sig: N/A
Centroid−so: 0.406 arcsec [4.69σ]
OotOffset−rm: 0.035 arcsec [0.52σ]
KicOffset−rm: 0.133 arcsec [1.93σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 1.00 [17/17]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31−Jan−2016 07:45:36 Z

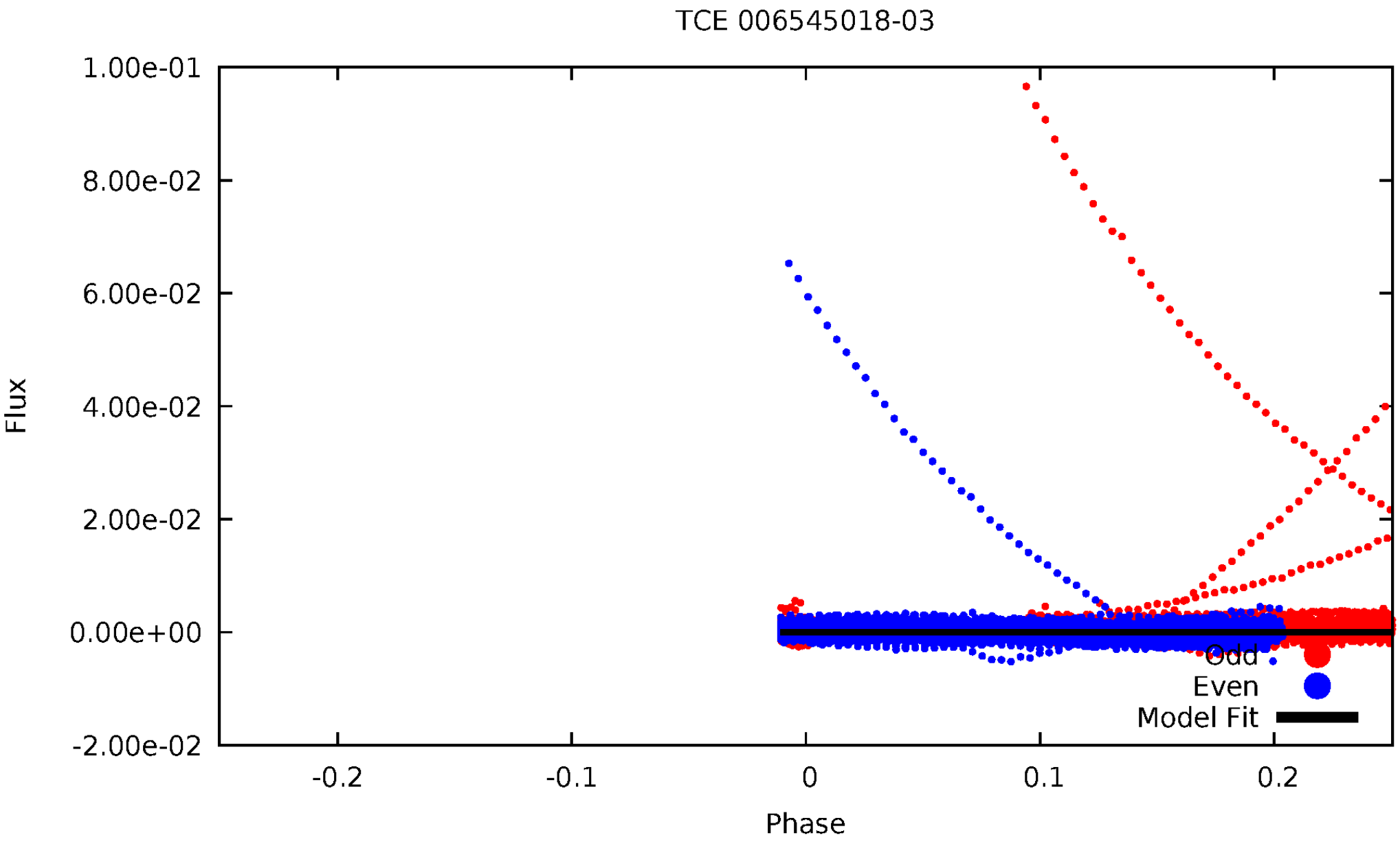
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006545018-03, PDC Light Curves




TCE 006545018-03
P = 2.495 days
P = 4.989 days
P = 9.979 days
Normalized Flux
BKJD
Normalized Flux
Phase

DV Odd/Even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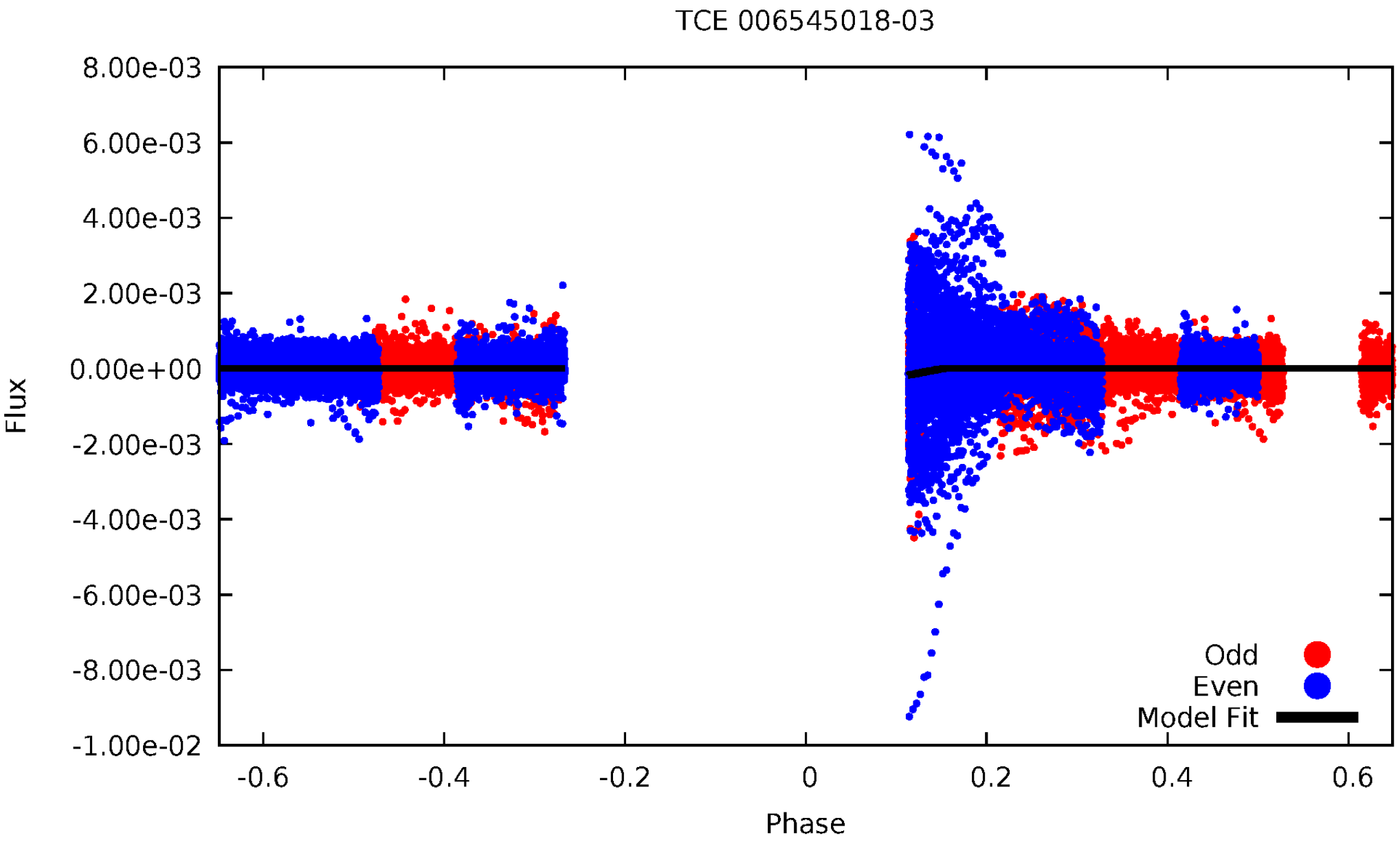
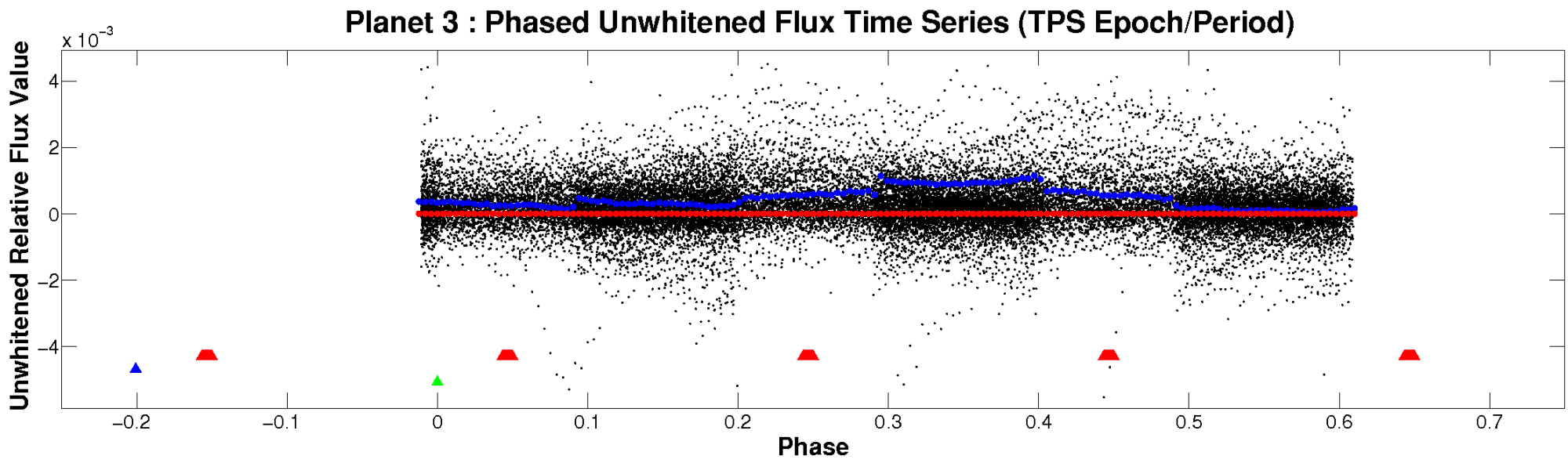
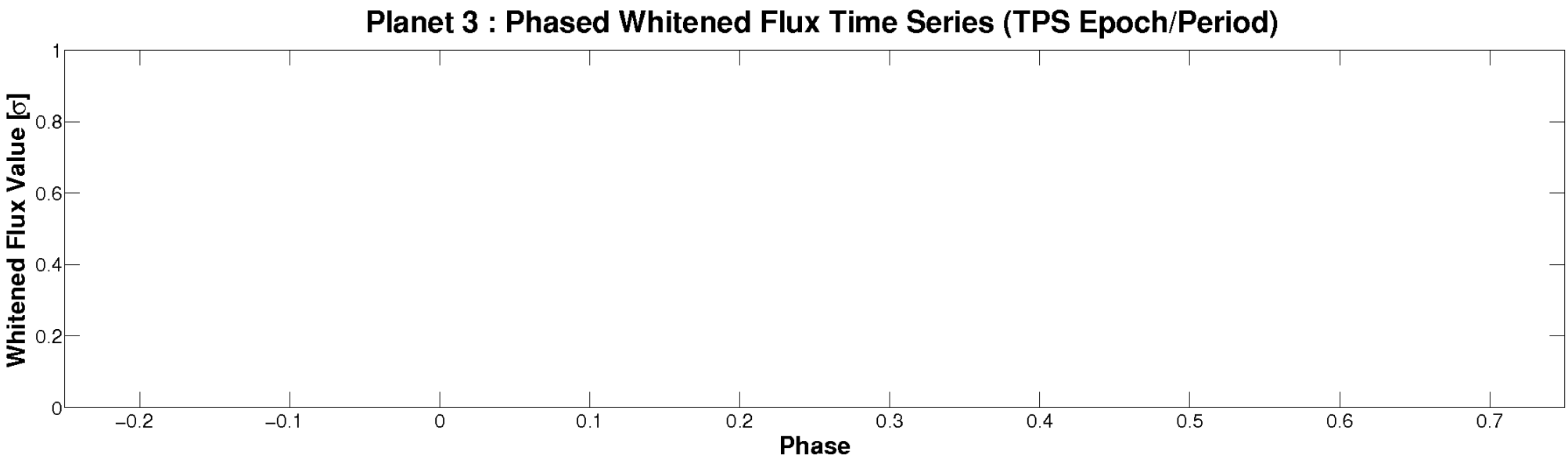
1.00e-01
8.00e-02
6.00e-02
4.00e-02
2.00e-02
0.00e+00
-2.00e-02
Flux
-0.2
-0.1
0
0.1
0.2
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006545018-03
8.00e-03
6.00e-03
4.00e-03
2.00e-03
0.00e+00
-2.00e-03
-4.00e-03
-6.00e-03
-8.00e-03
-1.00e-02
Flux
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
Phase
Odd
Even
Model Fit

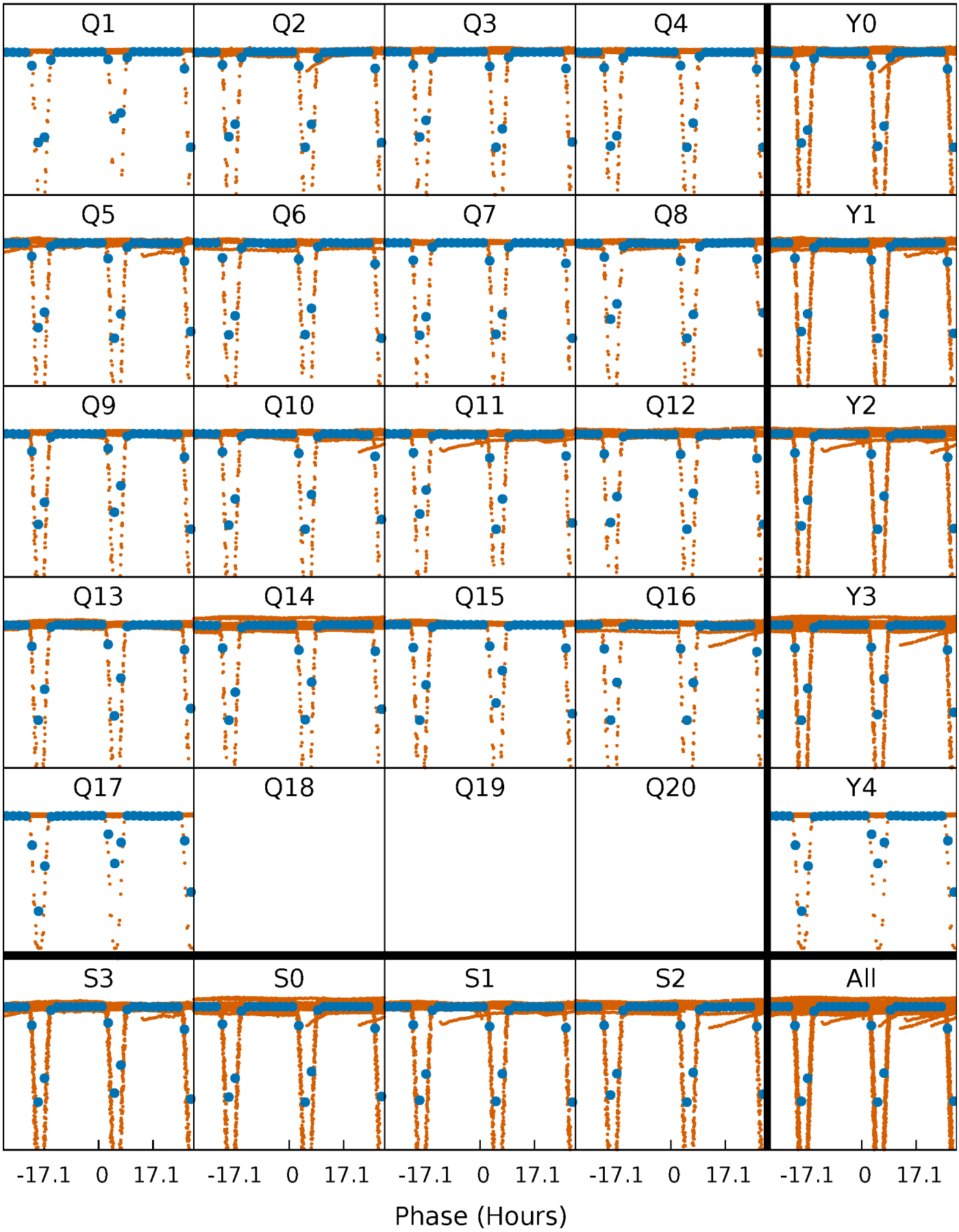
Non-Whitened Vs. Whitened Light Curve





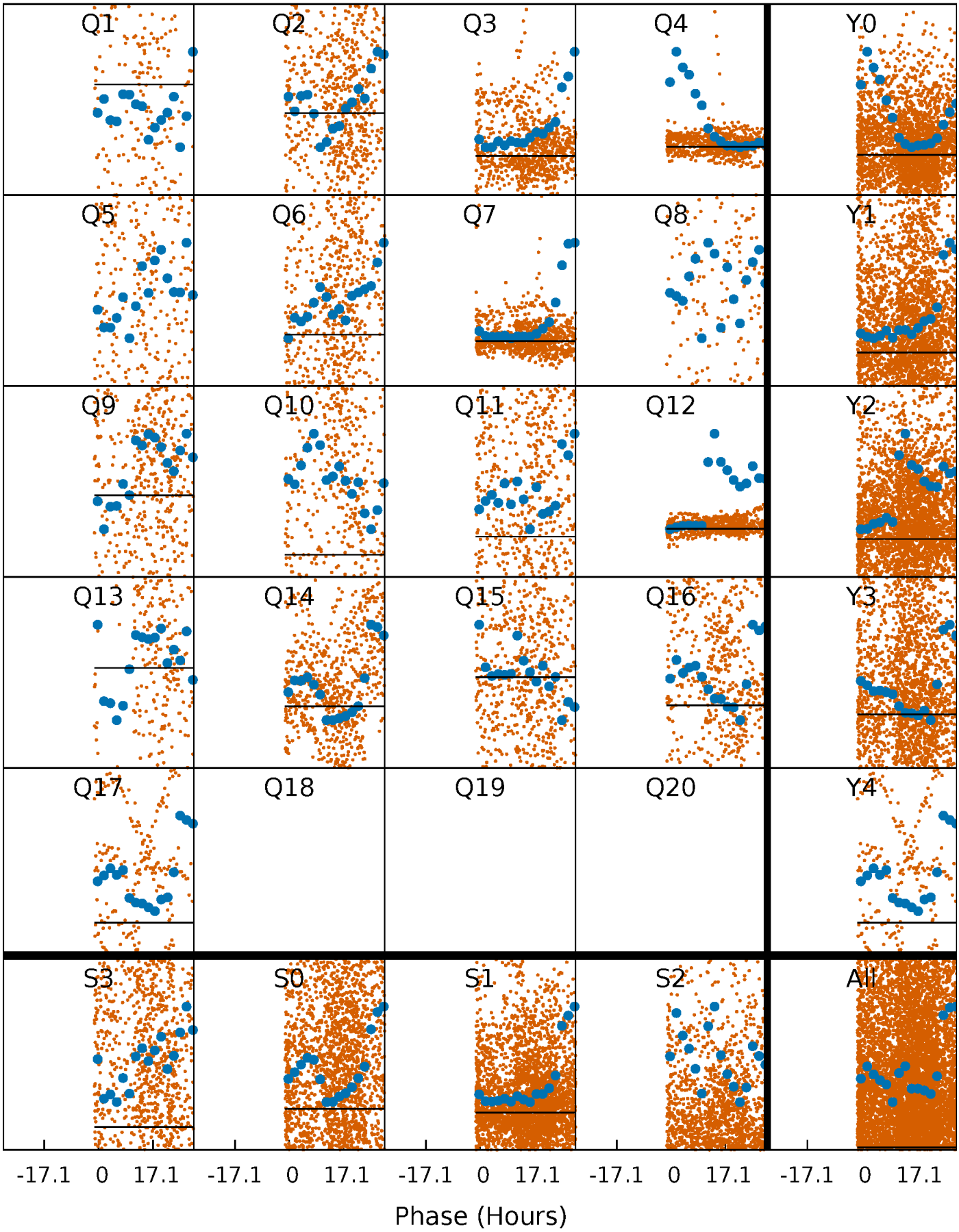
PDC Quarter-Phased Transit Curves

TCE 006545018-03 P= 4.989384 Days T_0=133.595217 (BKJD)



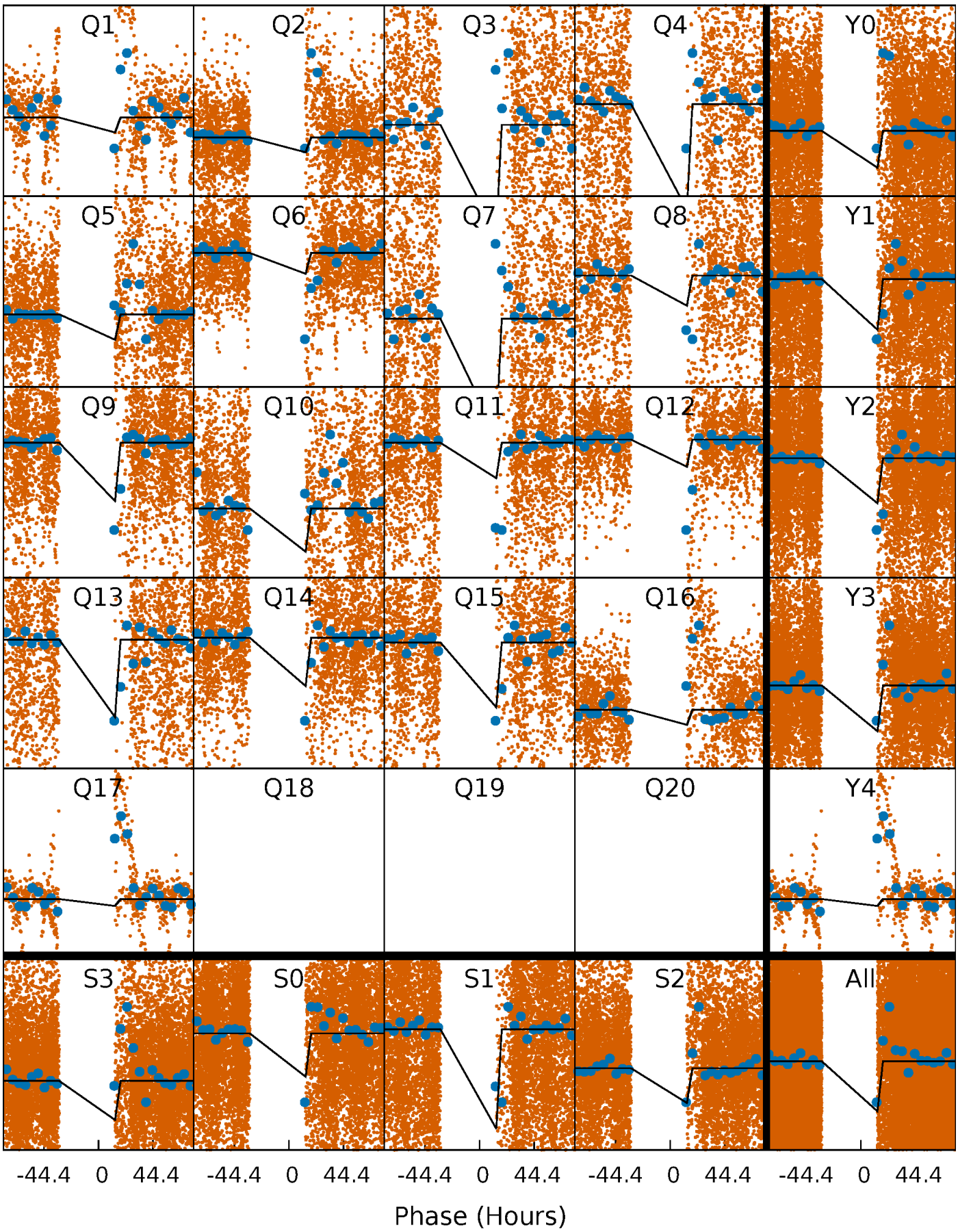
DV Quarter-Phased Transit Curves

TCE 006545018-03 P= 4.989384 Days T_0=133.595217 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

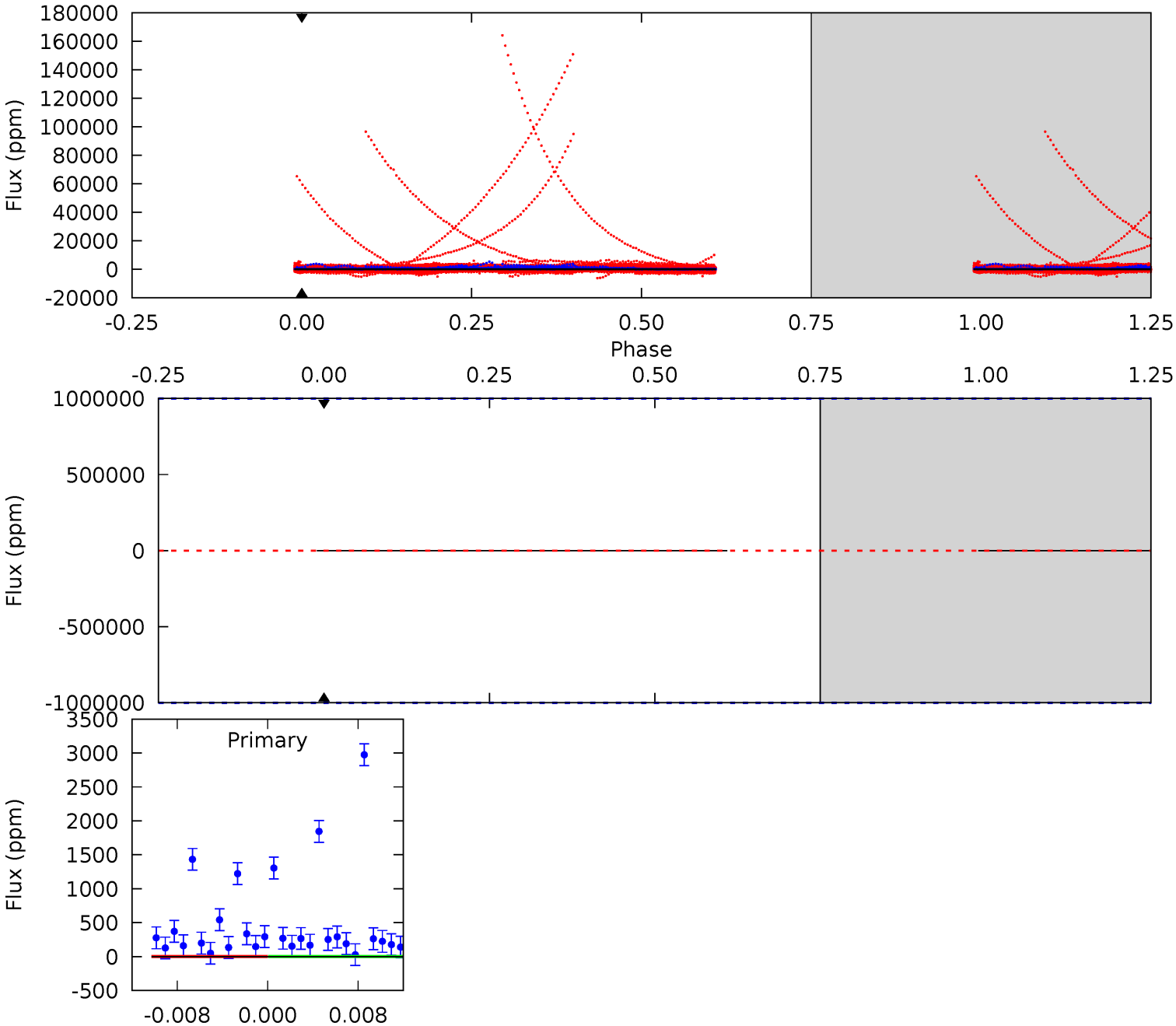
TCE 006545018-03 P= 4.989384 Days T_0=132.975766 (BKJD)



DV Model-Shift Uniqueness Test

006545018-03, P = 4.989384 Days, E = 128.605833 Days

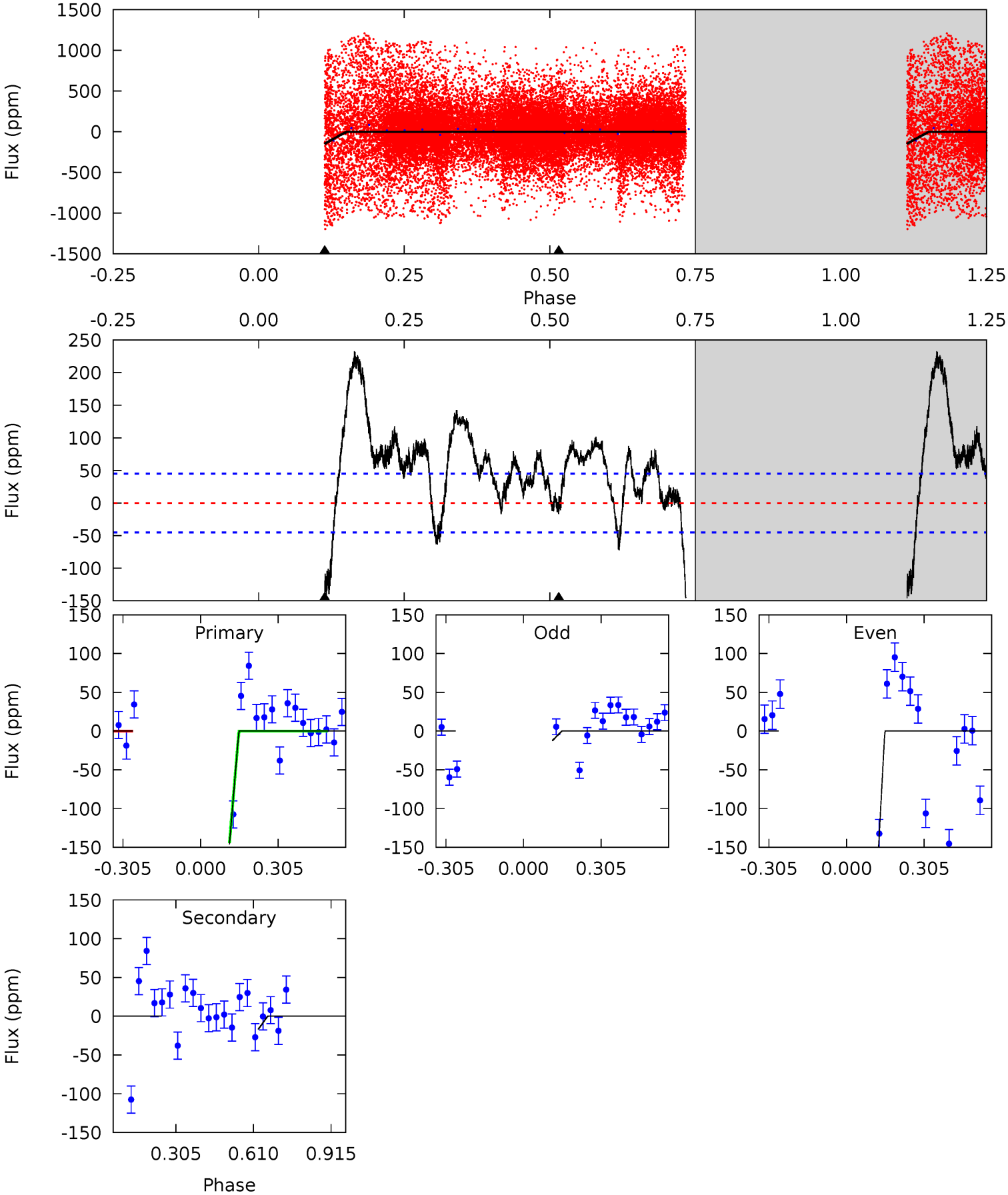
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

006545018-03, P = 4.989384 Days, E = 127.986382 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.0	1.62	0	0	4.33	1.03	3.70	14.0	14.0	1.62	1.62	7.02	-8.98	0.61	0



Stellar Parameters For KIC 006545018

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5807^{+157}_{-157}	$4.455^{+0.130}_{-0.159}$	$-0.640^{+0.300}_{-0.300}$	$0.861^{+0.188}_{-0.126}$	$0.771^{+0.100}_{-0.046}$	$1.702^{+0.970}_{-0.717}$
	+3%/-3%	+3%/-4%	+47%/-47%	+22%/-15%	+13%/-6%	+57%/-42%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 006545018-03 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0±1000000	$11.93^{+9.45}_{-7.61}$	1453^{+97}_{-79}	-4156^{+16798}_{-7310}	$-33.176^{+2021.638}_{-1567.498}$
Alt.	-17±10	$7.72^{+7.01}_{-5.41}$	1454^{+95}_{-74}	1926^{+1012}_{-4034}	$0.395^{+3.743}_{-0.329}$

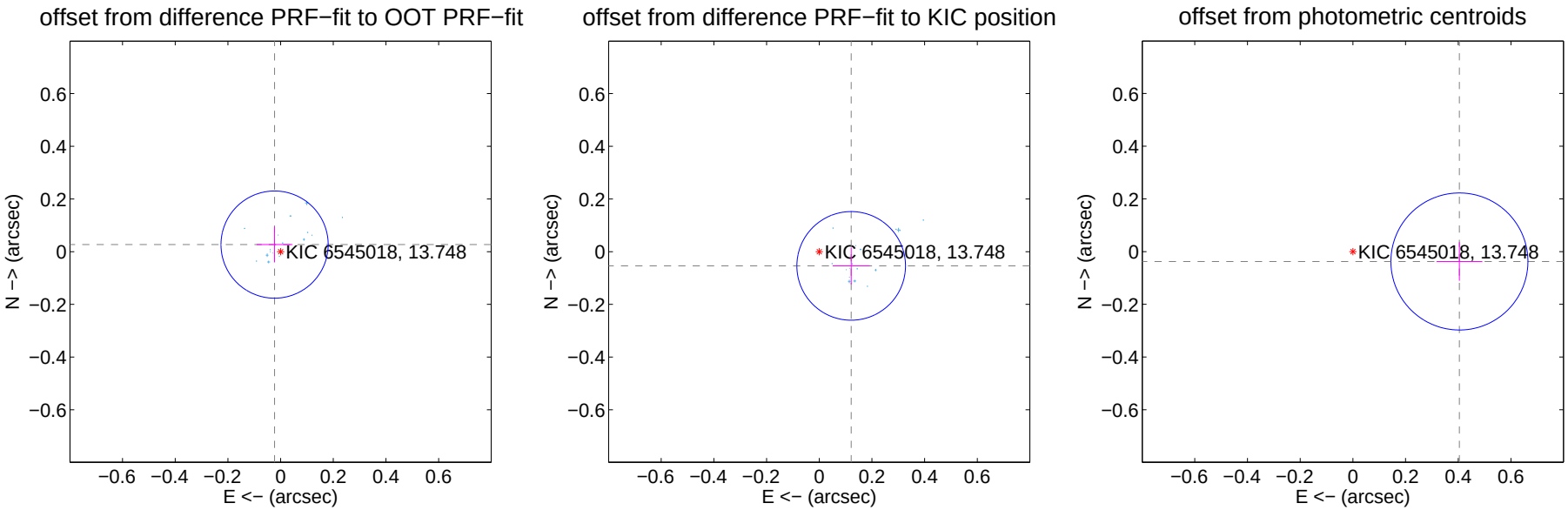
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

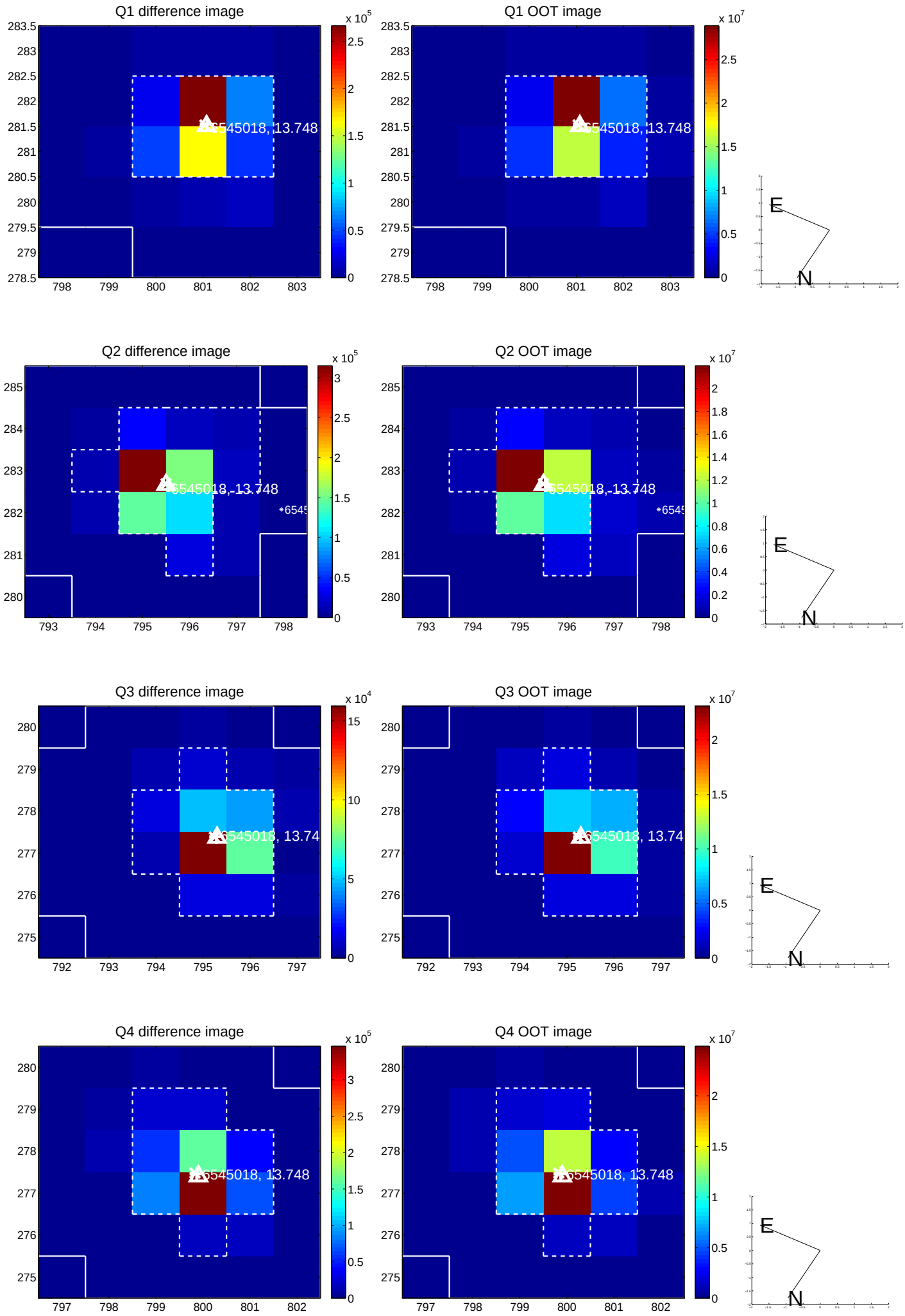
Supplemental centroid analysis for 006545018-03. Kepler magnitude: 13.75. Transit SNR -1.00
There are 17 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.035 ± 0.068	0.52	0.023 ± 0.068	0.027 ± 0.068
PRF-fit source offset from KIC position	0.133 ± 0.069	1.93	-0.121 ± 0.070	-0.054 ± 0.070
photometric centroid source offset	0.41 ± 0.09	4.69	-0.40 ± 0.09	-0.04 ± 0.07

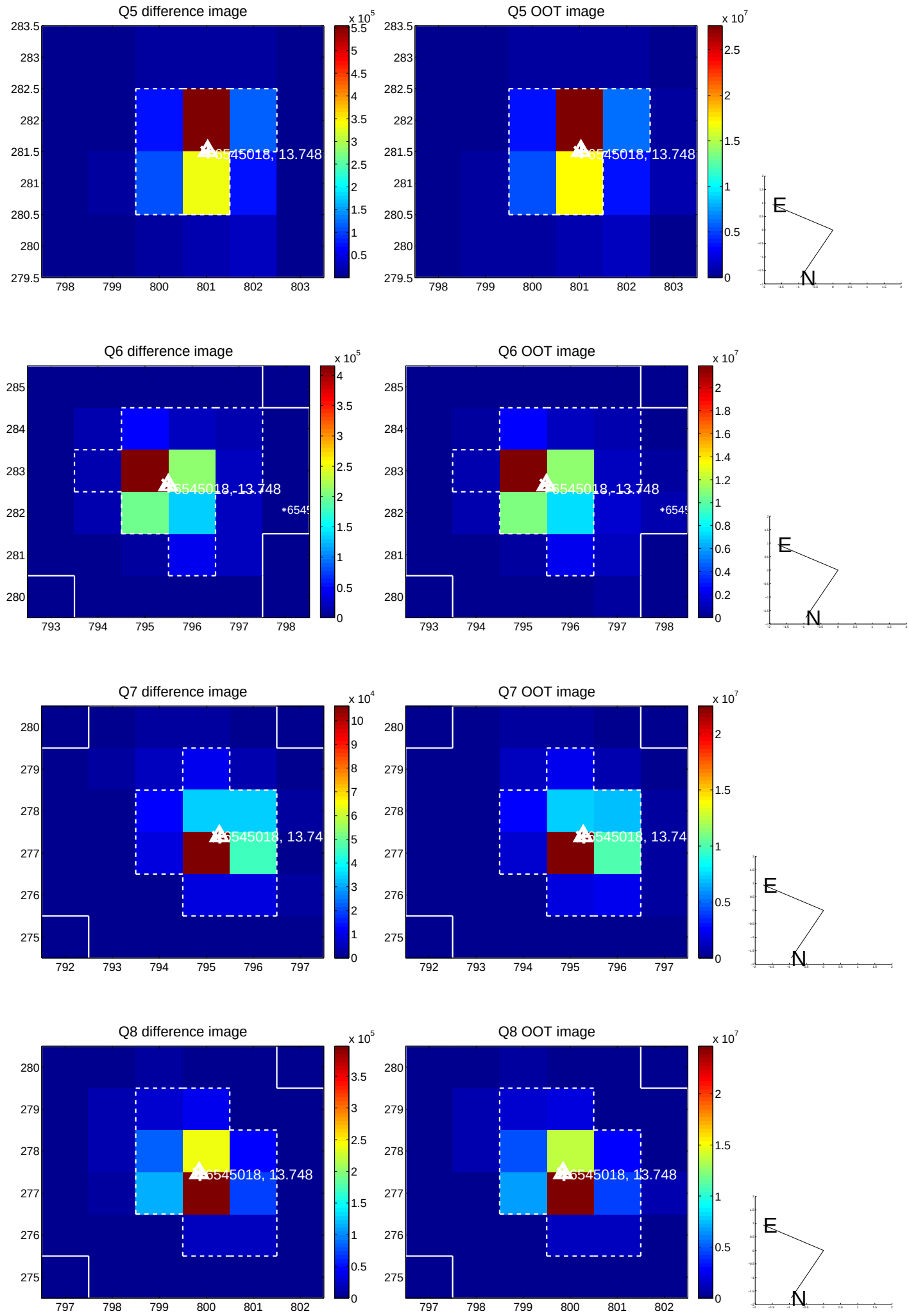


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

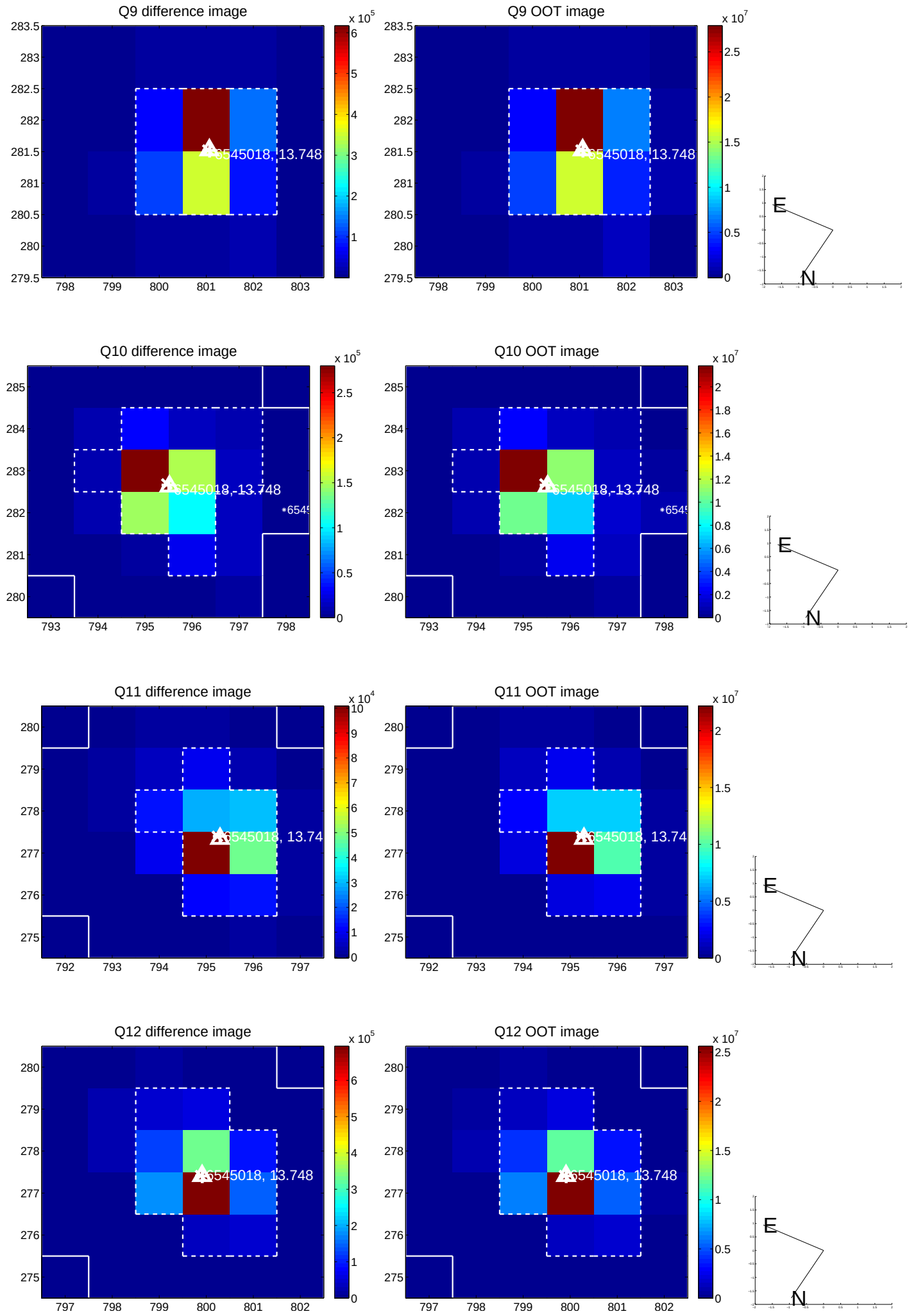
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



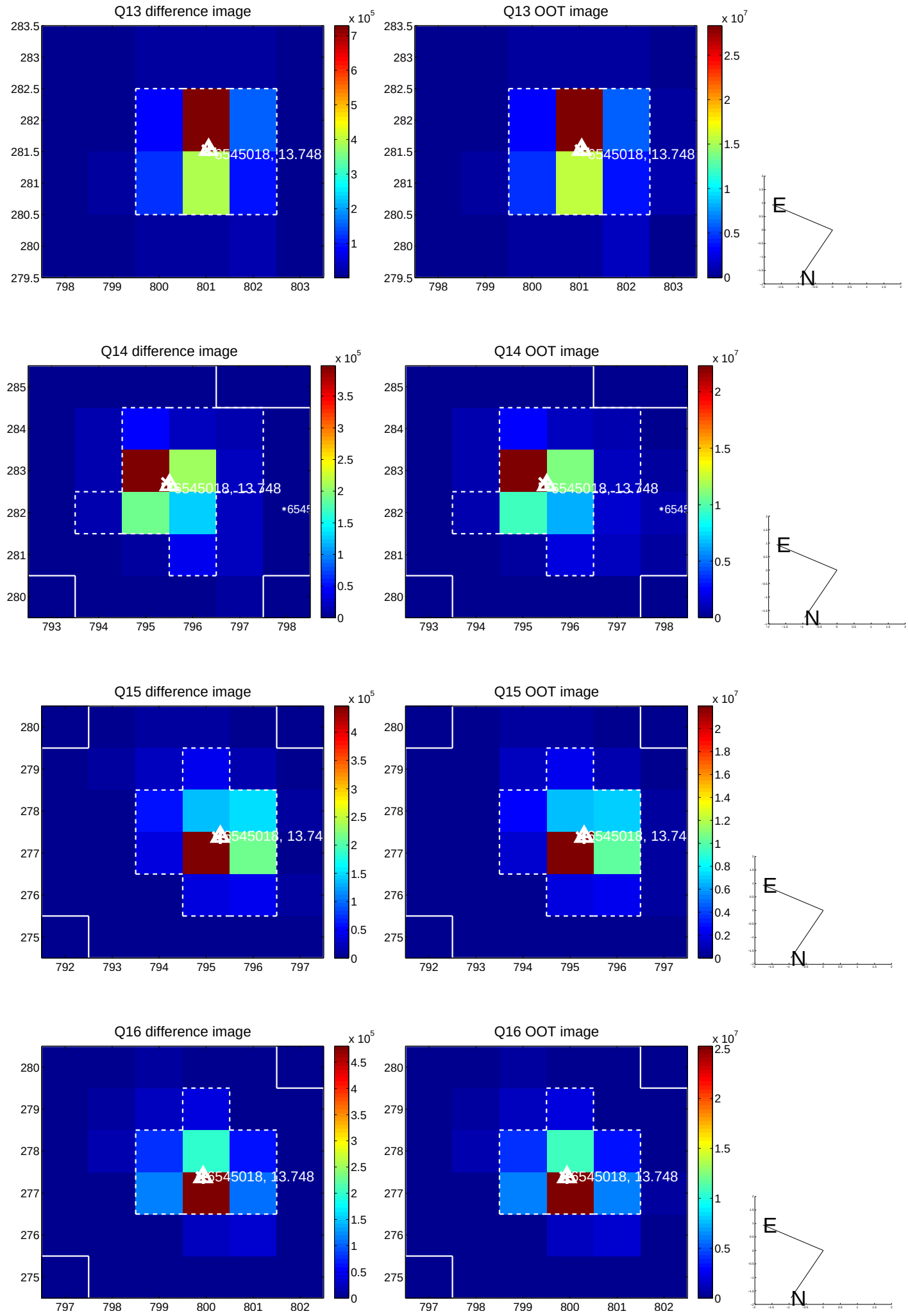
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



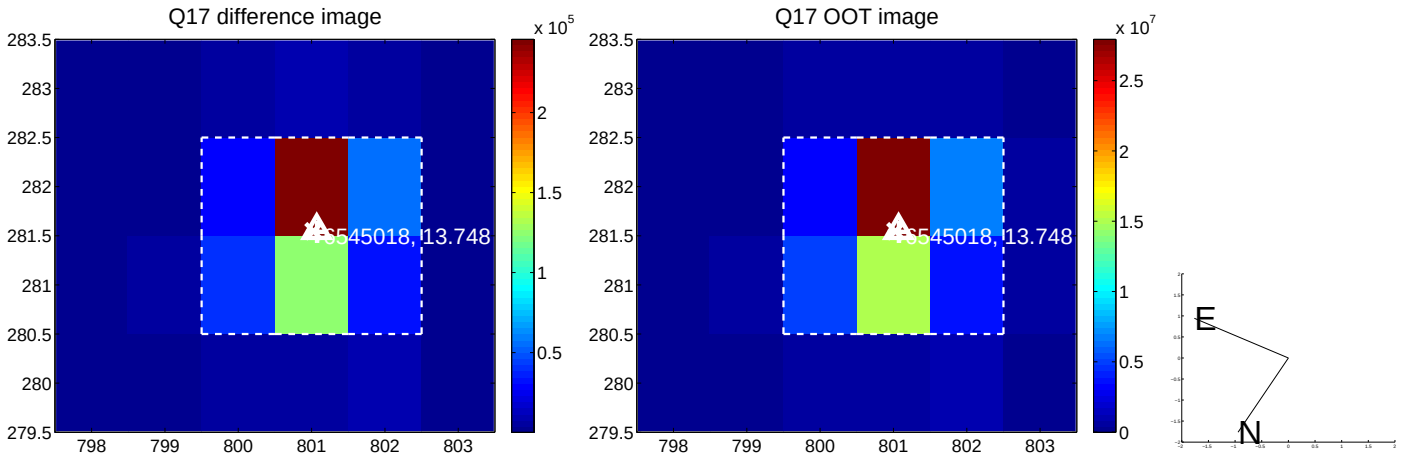
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

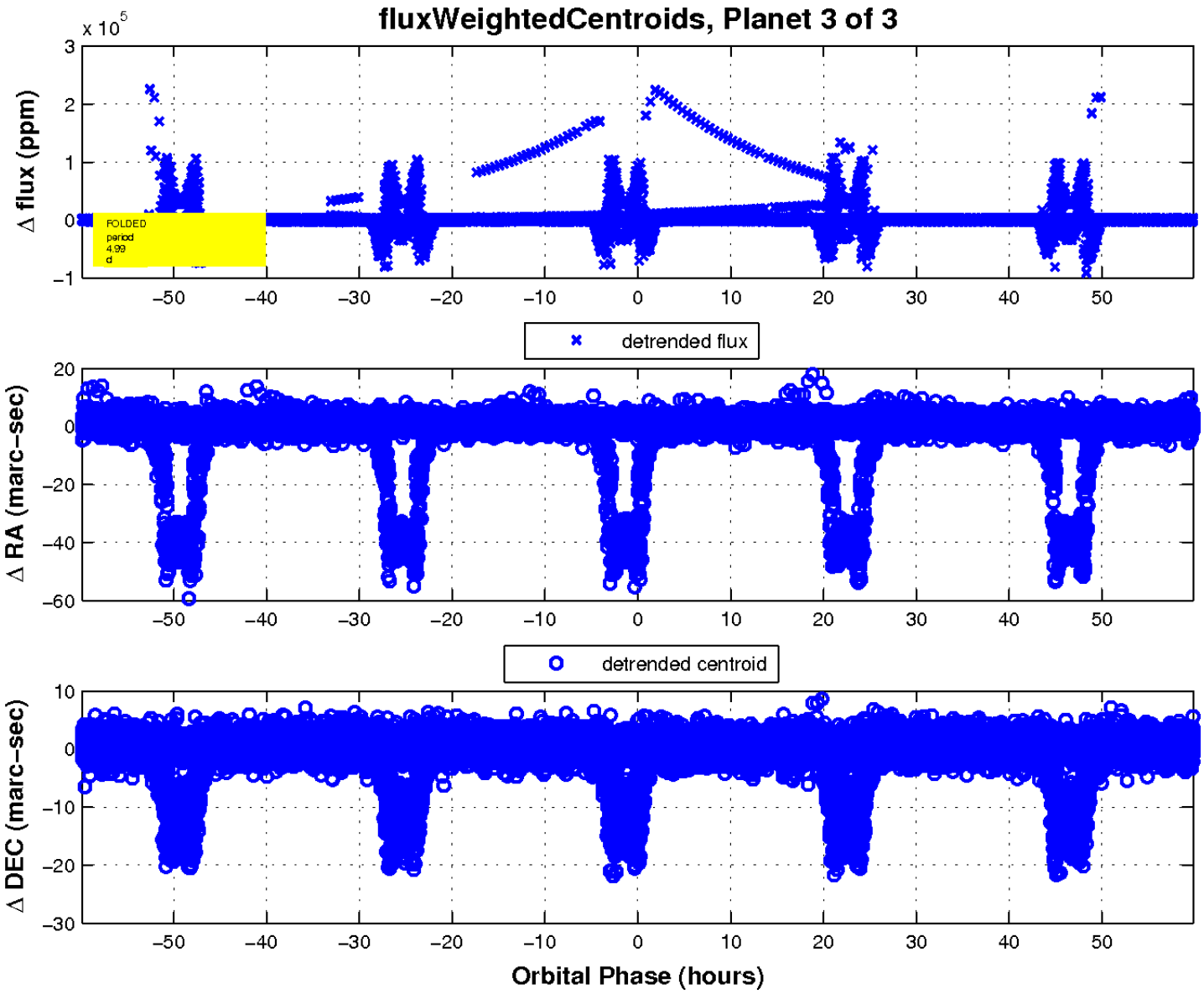


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

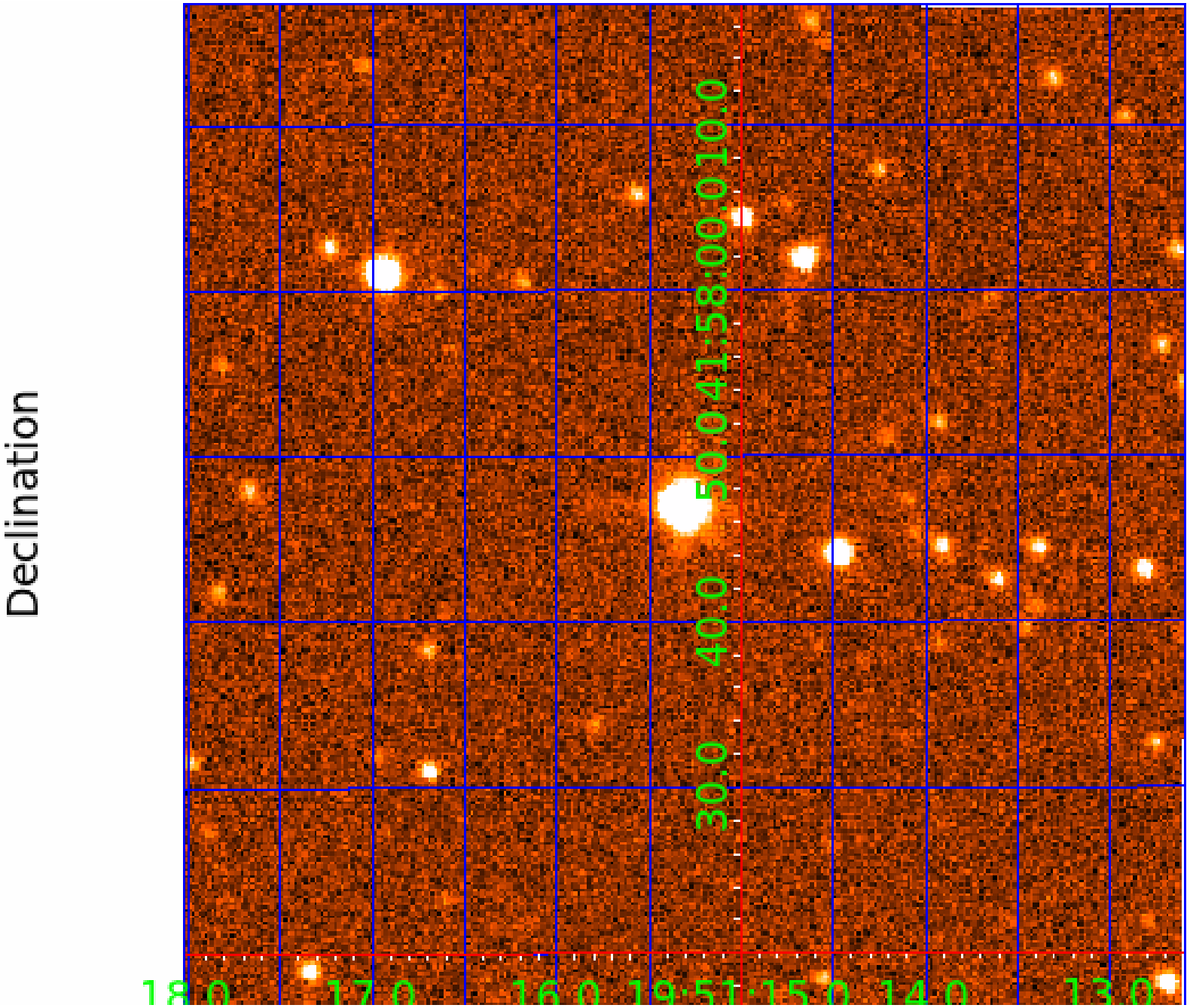


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image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