KIC 006527363

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 ($S_\oplus$)
006527363-01	OBS	No	1.047418	131.639220	20.0	1.517	9.4	12.6	1.54	6749	0.74	8634.30
006527363-02	OBS	No	609.675534	344.600189	212.1	14.243	8.6	9.3	1.54	6749	2.61	1.78
006527363-03	OBS	No	0.523733	131.716018	4.1	0.720	8.0	2.5	1.54	6749	0.36	21755.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527363-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
006527363-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—ALL_TRANS_CHASES—INCONSISTENT_TRANS
006527363-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

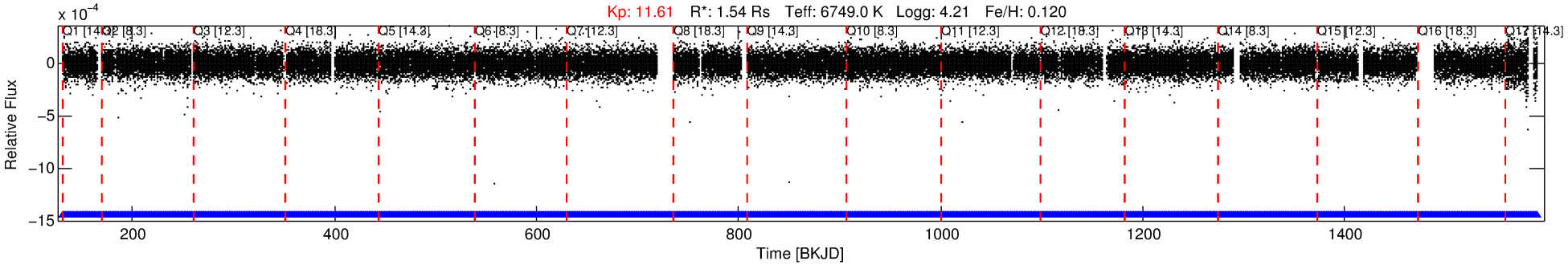
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

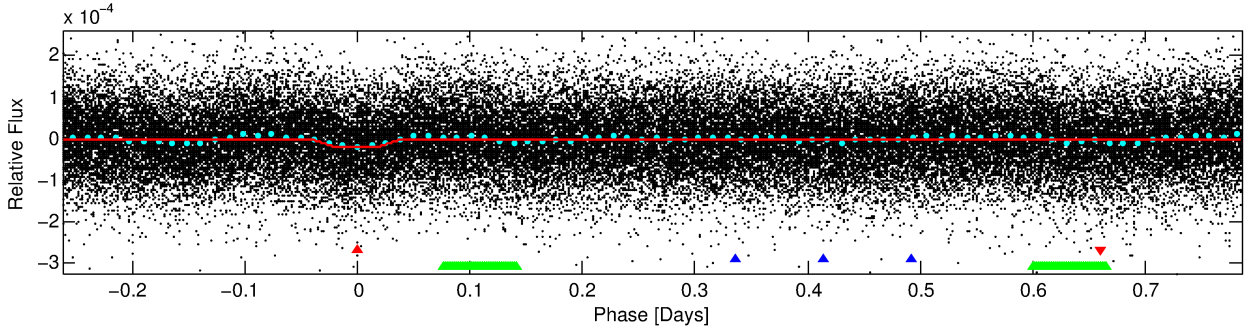
Ephemeris Match Information For 006527363-01

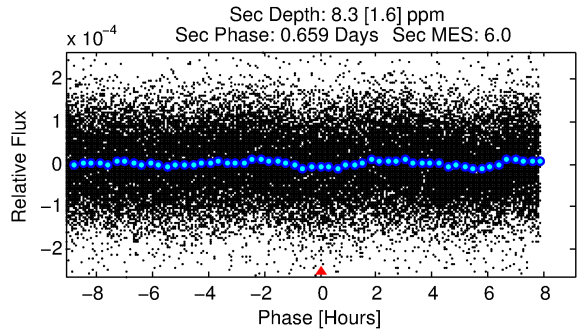
No Significant Match Found

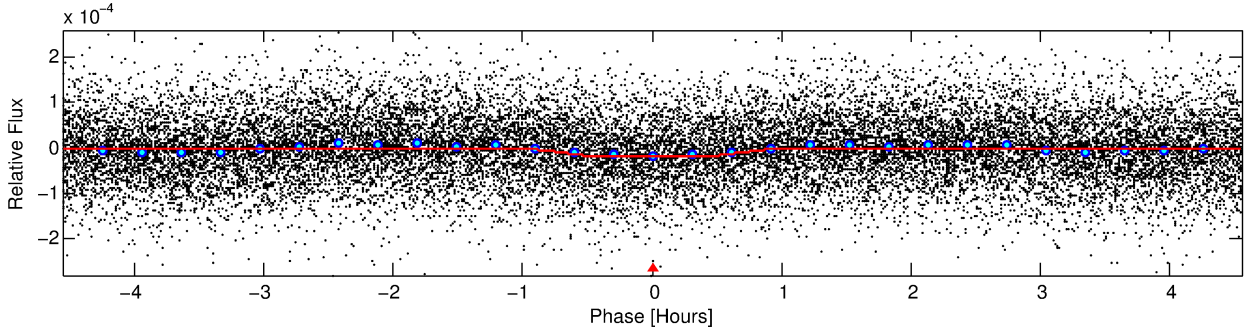
DV One-Page Summary

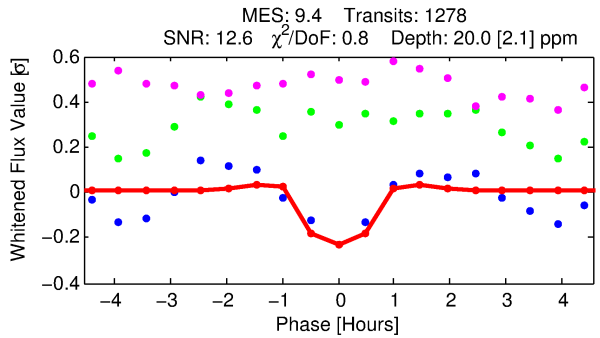
KIC: 6527363 Candidate: 1 of 3 Period: 1.047 d

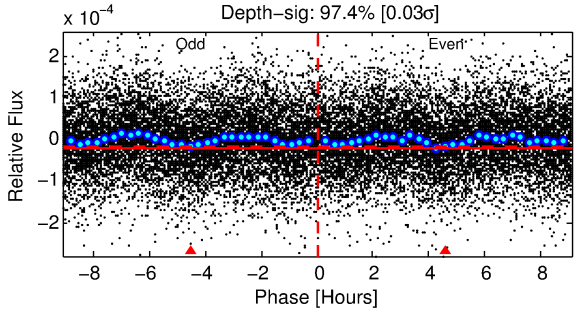


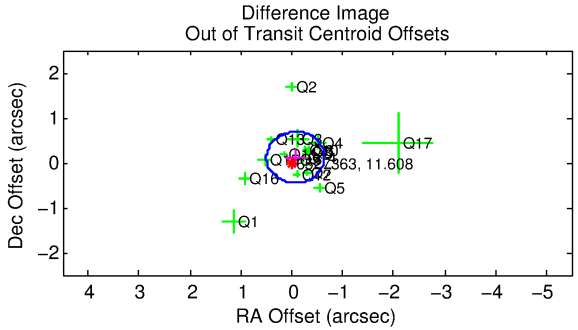












DV Fit Results:

Period = 1.04742 [0.00001] d
Epoch = 131.6392 [0.0016] BKJD
Rp/R* = 0.0044 [0.0006]
a/R* = 3.89 [2.42]
b = 0.70 [0.49]

Seff = 8634.30 [3589.01]
Teq = 2458 [255] K
Rp = 0.74 [0.26] Re
a = 0.0226 [0.0061] AU

Ag = 4.28 [2.14] [1.54σ]
Teffp = 5467 [497] K [5.38σ]

DV Diagnostic Results:

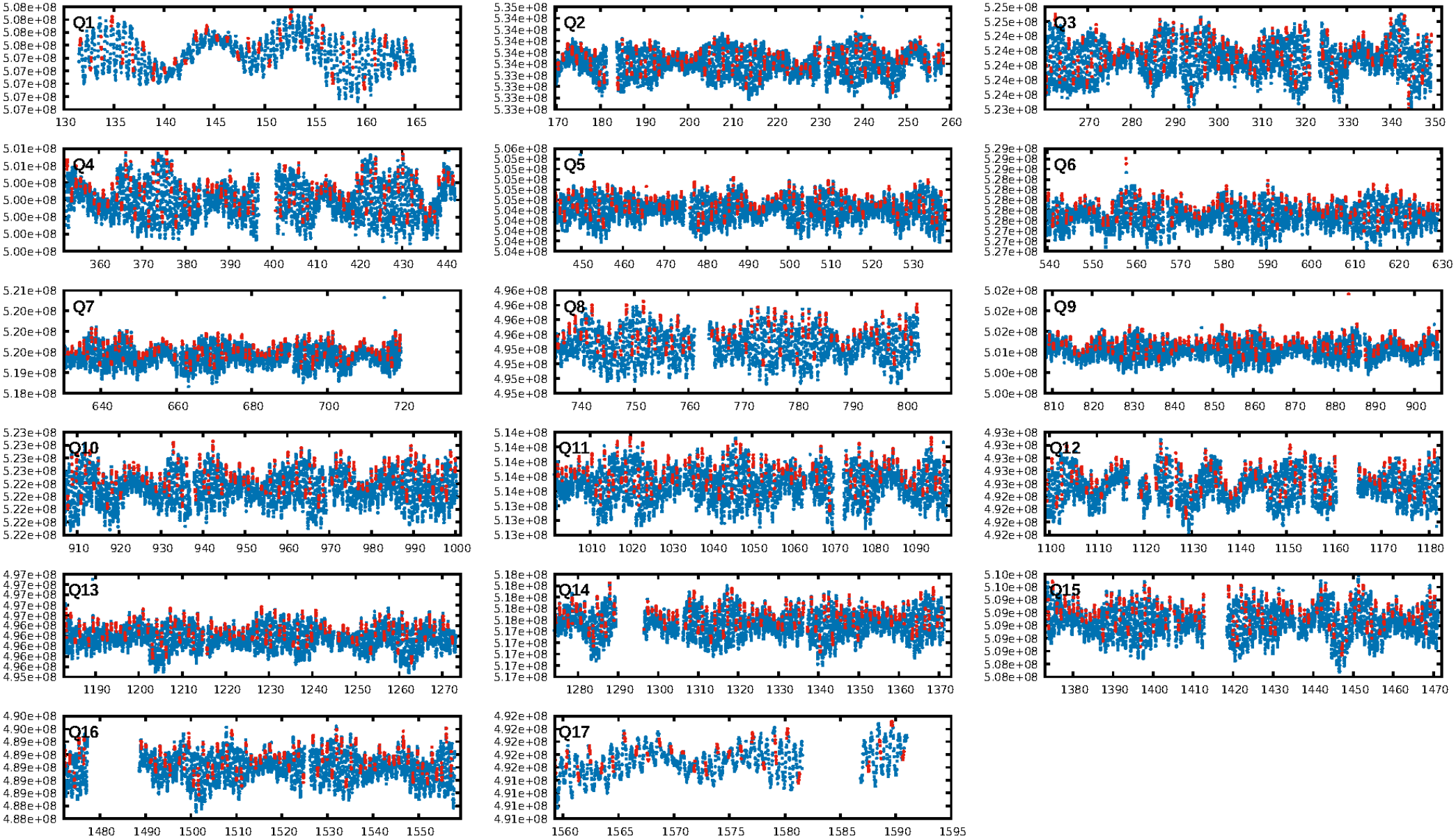
ShortPeriod−sig: 100.0% [7.49σ]
LongPeriod−sig: 100.0% [1019.78σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: 4.05e−25
RollingBand−fgt: 1.00 [1220/1220]
GhostDiagnostic−chr: −0.5405

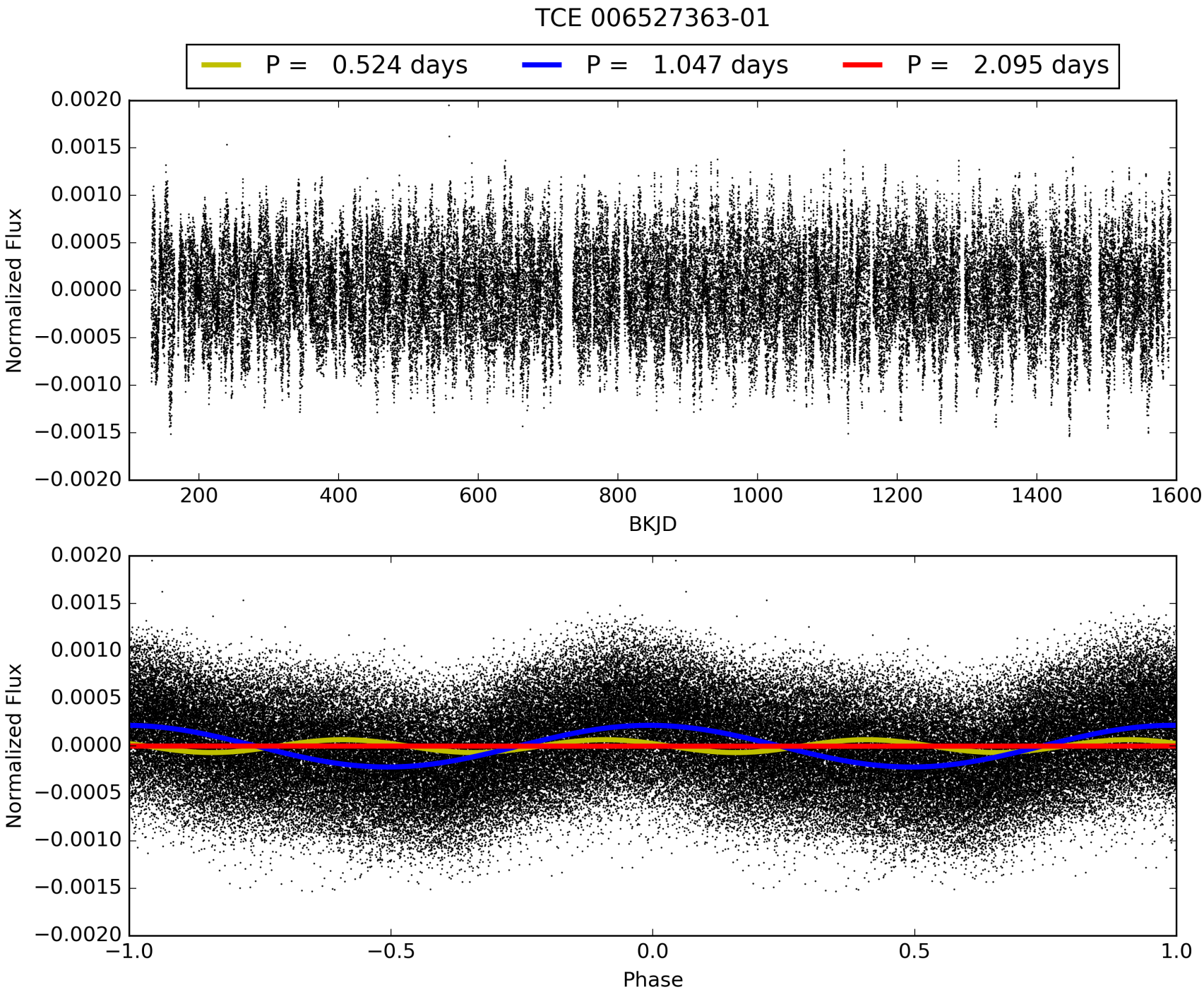
Centroid−sig: N/A
Centroid−so: 0.866 arcsec [1.34σ]
OotOffset−rm: 0.136 arcsec [0.72σ]
KicOffset−rm: 0.061 arcsec [0.31σ]
OotOffset−st: 4/4/4/5 [17]
KicOffset−st: 4/4/4/5 [17]
DiffImageQuality−fgm: 0.00 [0/17]
DiffImageOverlap−fno: 0.00 [0/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03−Feb−2016 03:21:32 Z

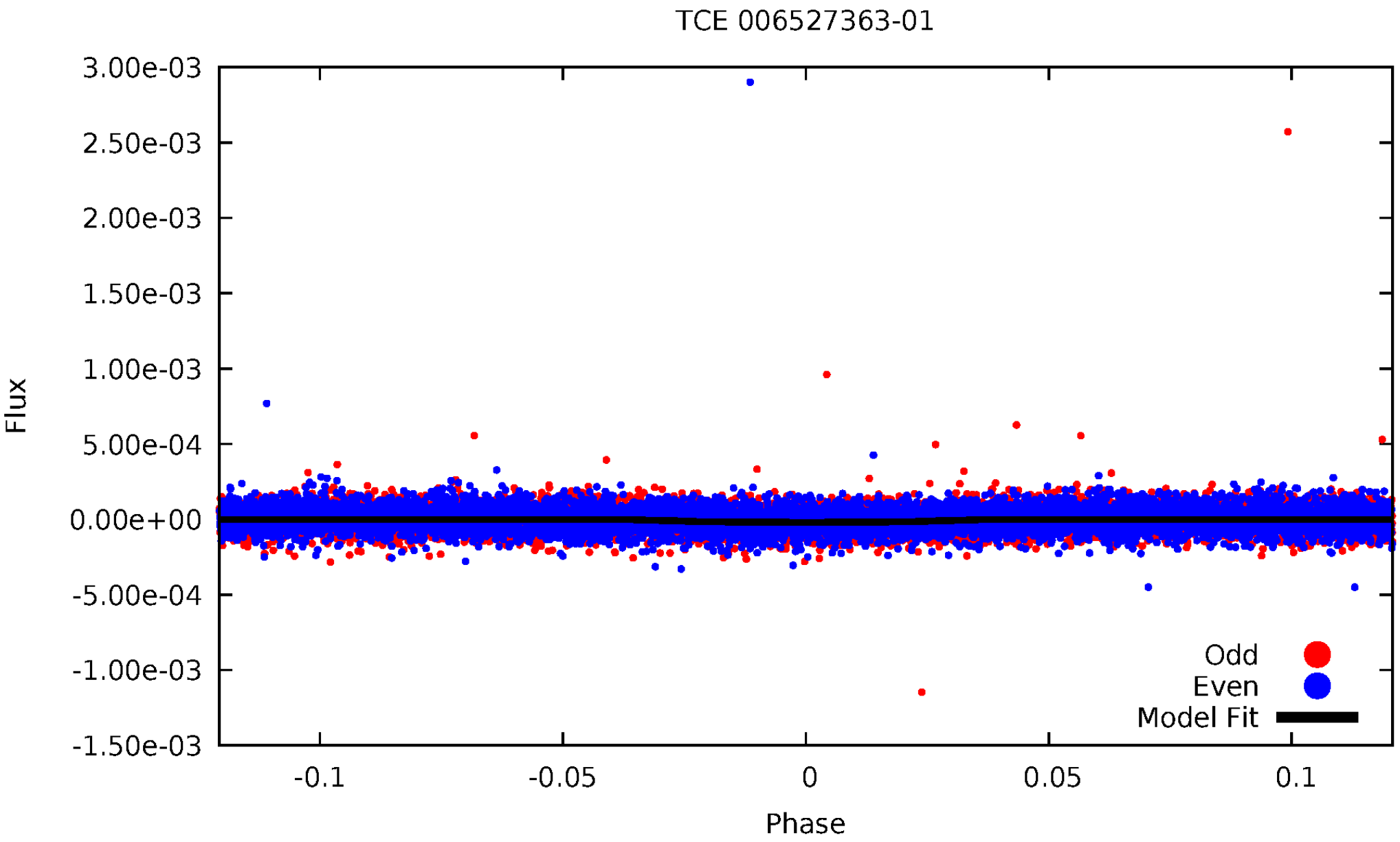
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006527363-01, PDC Light Curves




TCE 006527363-01
P = 0.524 days
P = 1.047 days
P = 2.095 days
Normalized Flux
BKJD
Normalized Flux
Phase

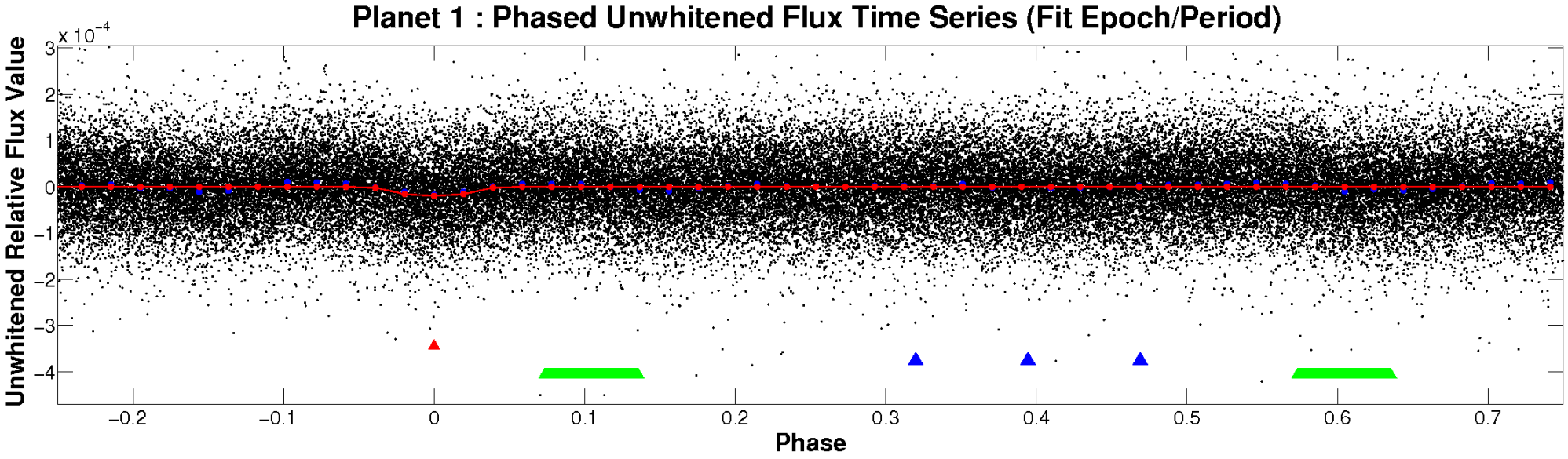
DV Odd/Even

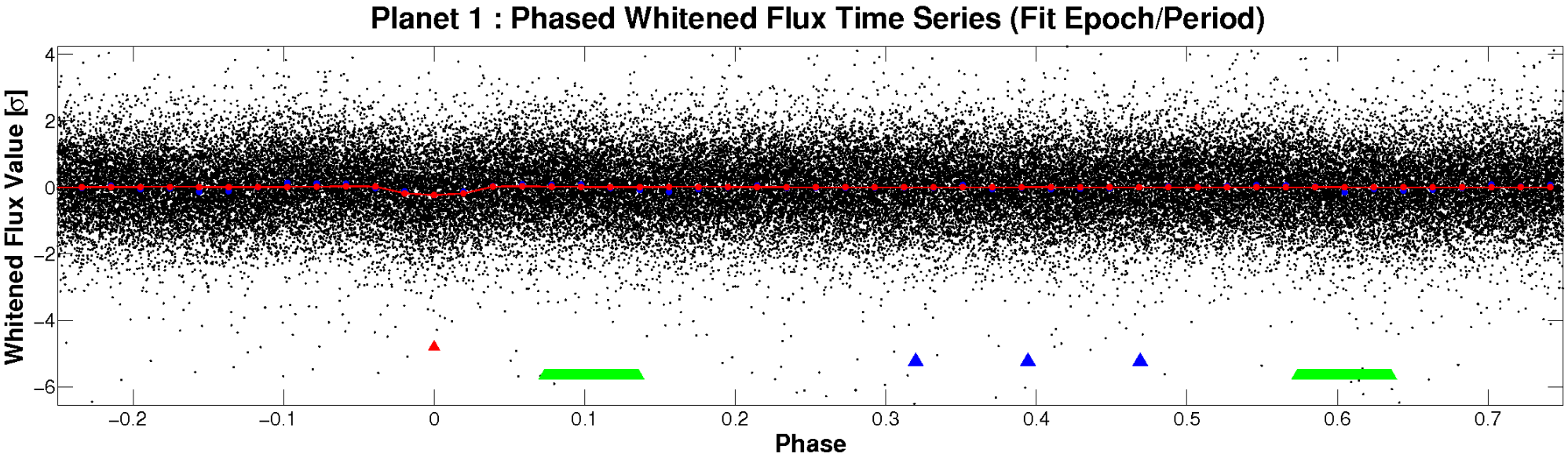

TCE 006527363-01
3.00e-03
2.50e-03
2.00e-03
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
Flux
-0.1
-0.05
0
0.05
0.1
Phase
Odd
Even
Model Fit

ALT Odd/Even

This plot does not exist for this TCE.

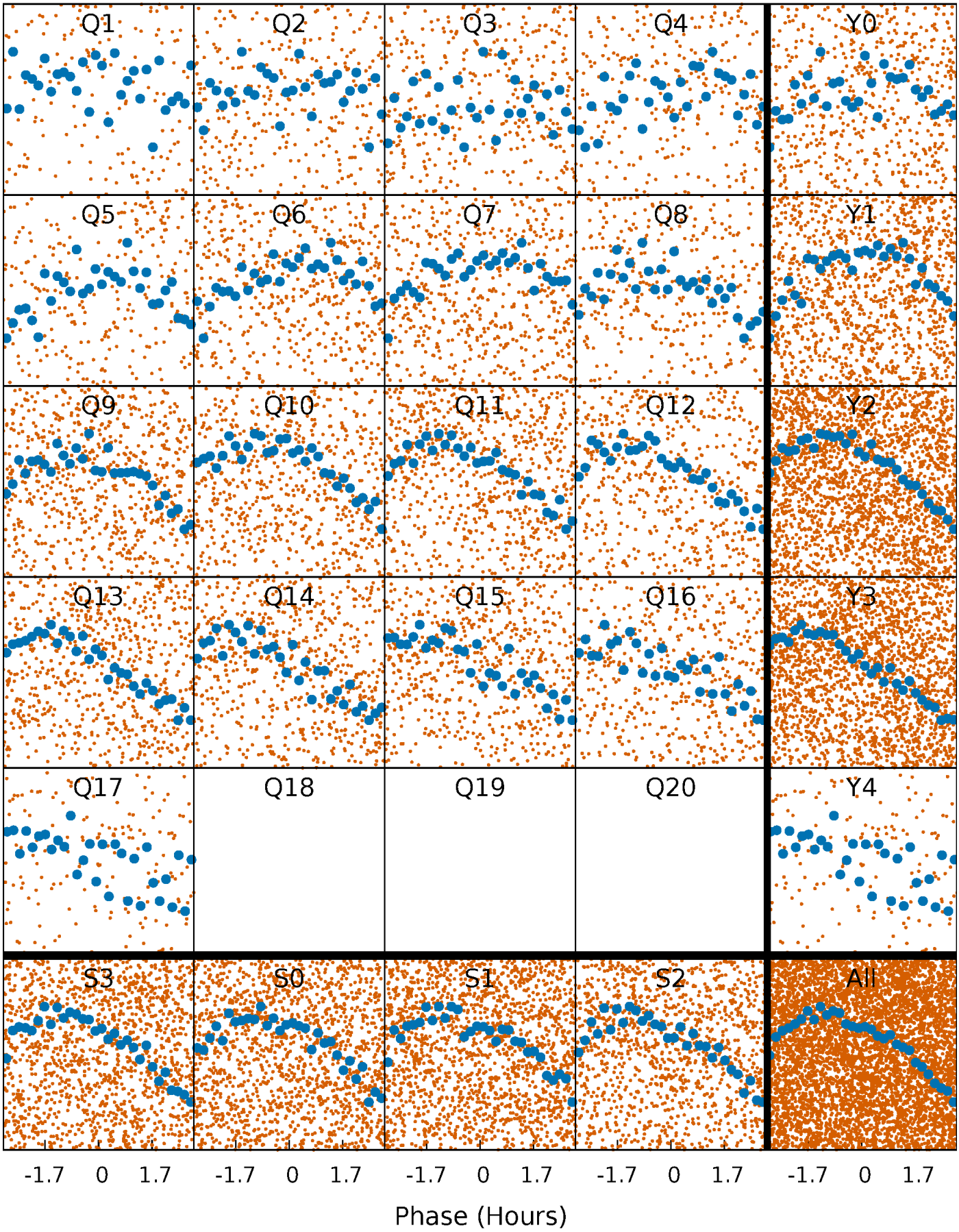
Non-Whitened Vs. Whitened Light Curve





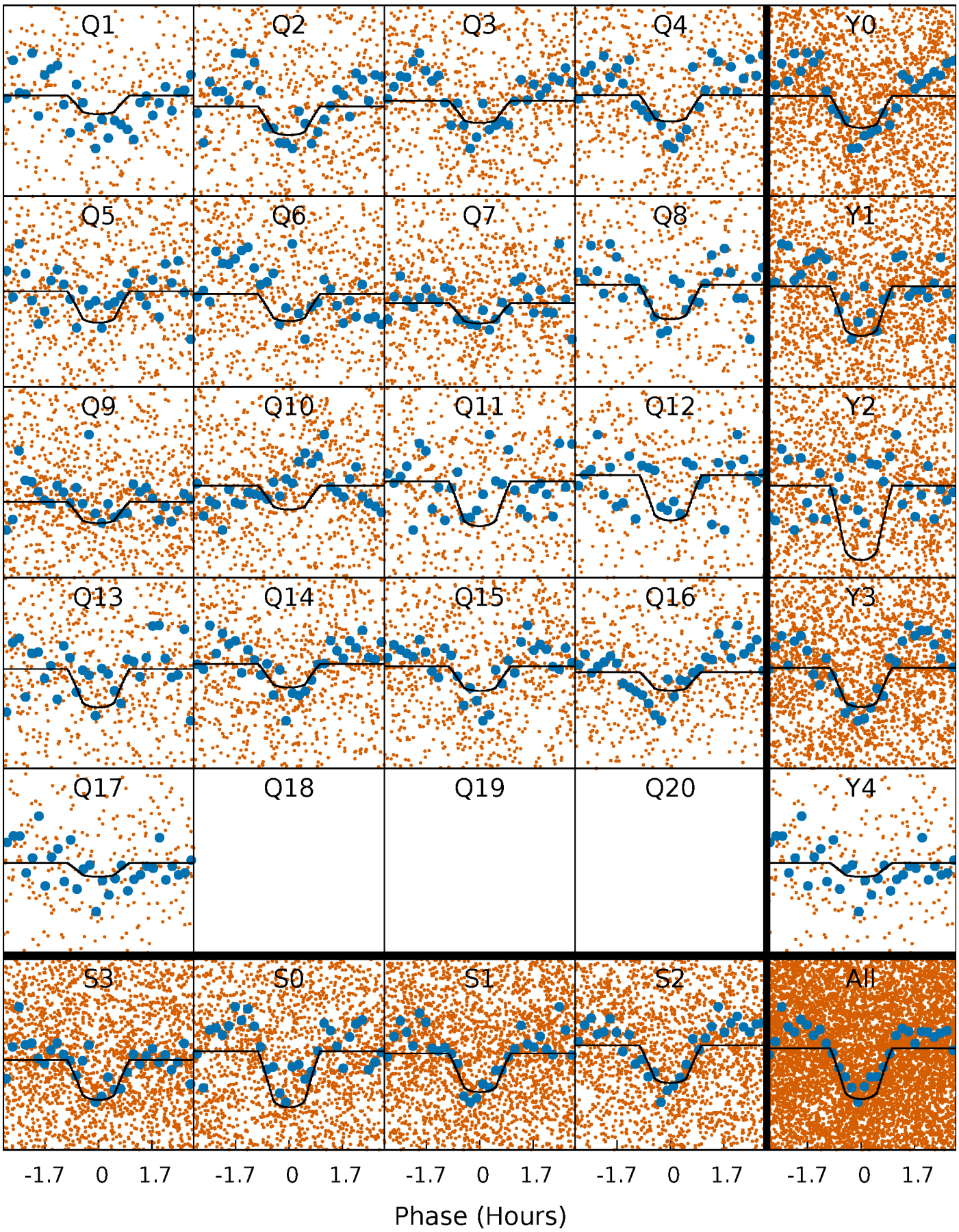
PDC Quarter-Phased Transit Curves

TCE 006527363-01 P= 1.047418 Days T_0=131.639220 (BKJD)



DV Quarter-Phased Transit Curves

TCE 006527363-01 P= 1.047418 Days T_0=131.639220 (BKJD)

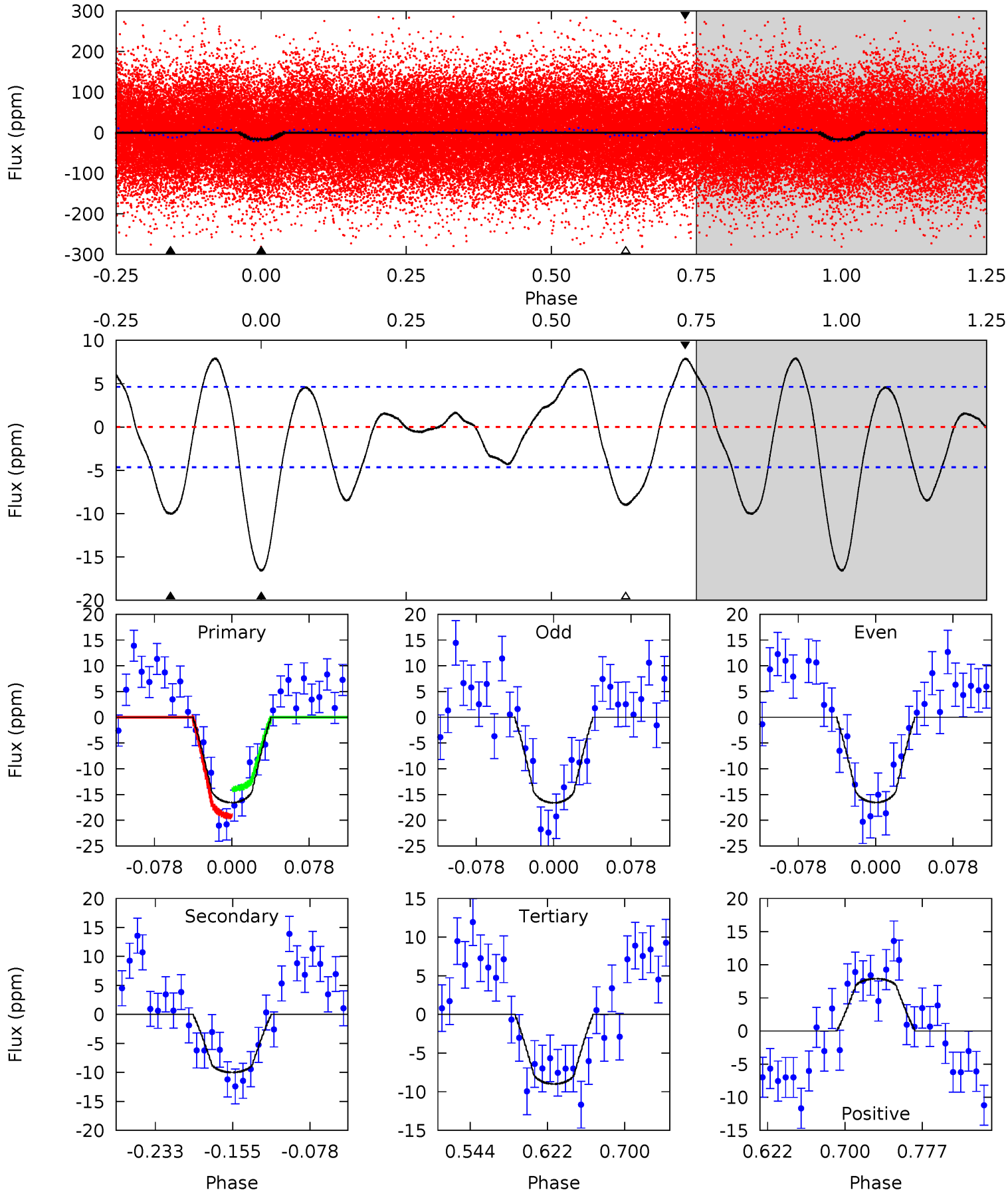


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

006527363-01, P = 1.047418 Days, E = 130.591802 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.5	9.97	8.96	7.86	4.62	1.76	4.34	7.54	8.64	1.01	2.11	0.04	0.96	0.32	2.65



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 006527363

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6749^{+189}_{-283}	$4.210^{+0.108}_{-0.201}$	$0.120^{+0.200}_{-0.350}$	$1.541^{+0.514}_{-0.277}$	$1.405^{+0.196}_{-0.218}$	$0.541^{+0.290}_{-0.282}$
	+3%/-4%	+3%/-5%	+167%/-292%	+33%/-18%	+14%/-16%	+54%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006527363-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-10±1	$0.75^{+0.16}_{-0.12}$	3453^{+254}_{-211}	5613^{+481}_{-405}	$4.995^{+2.168}_{-1.626}$
Alt.	N/A	N/A	N/A	N/A	N/A

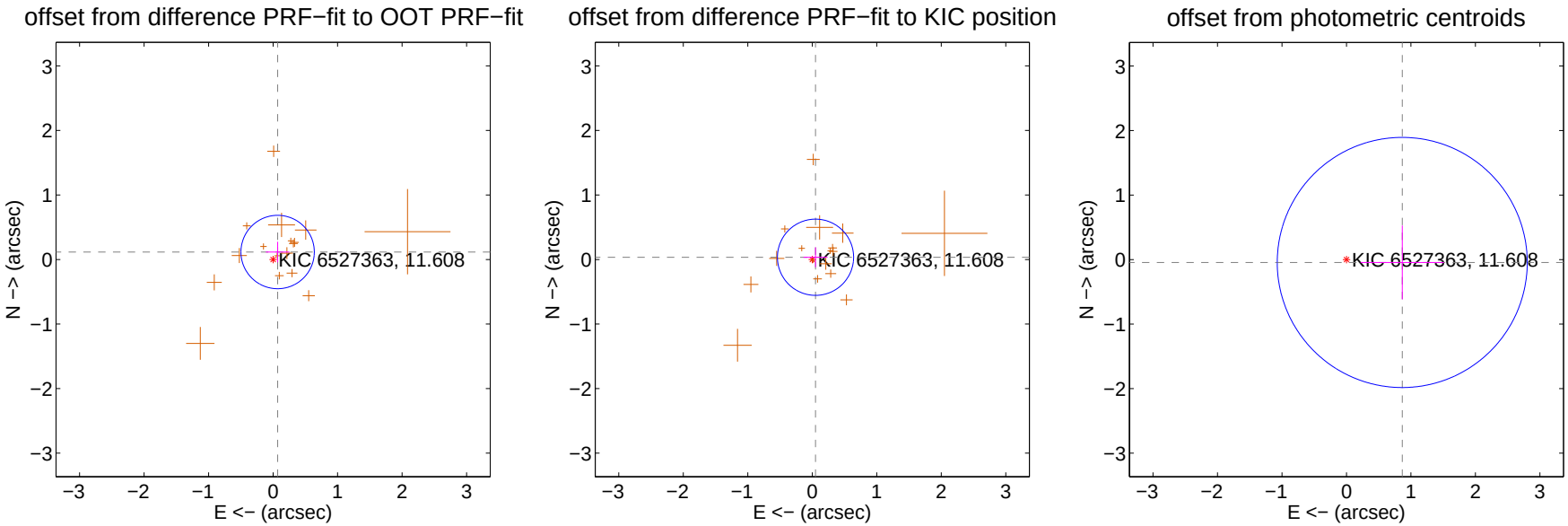
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

DV Centroid Data

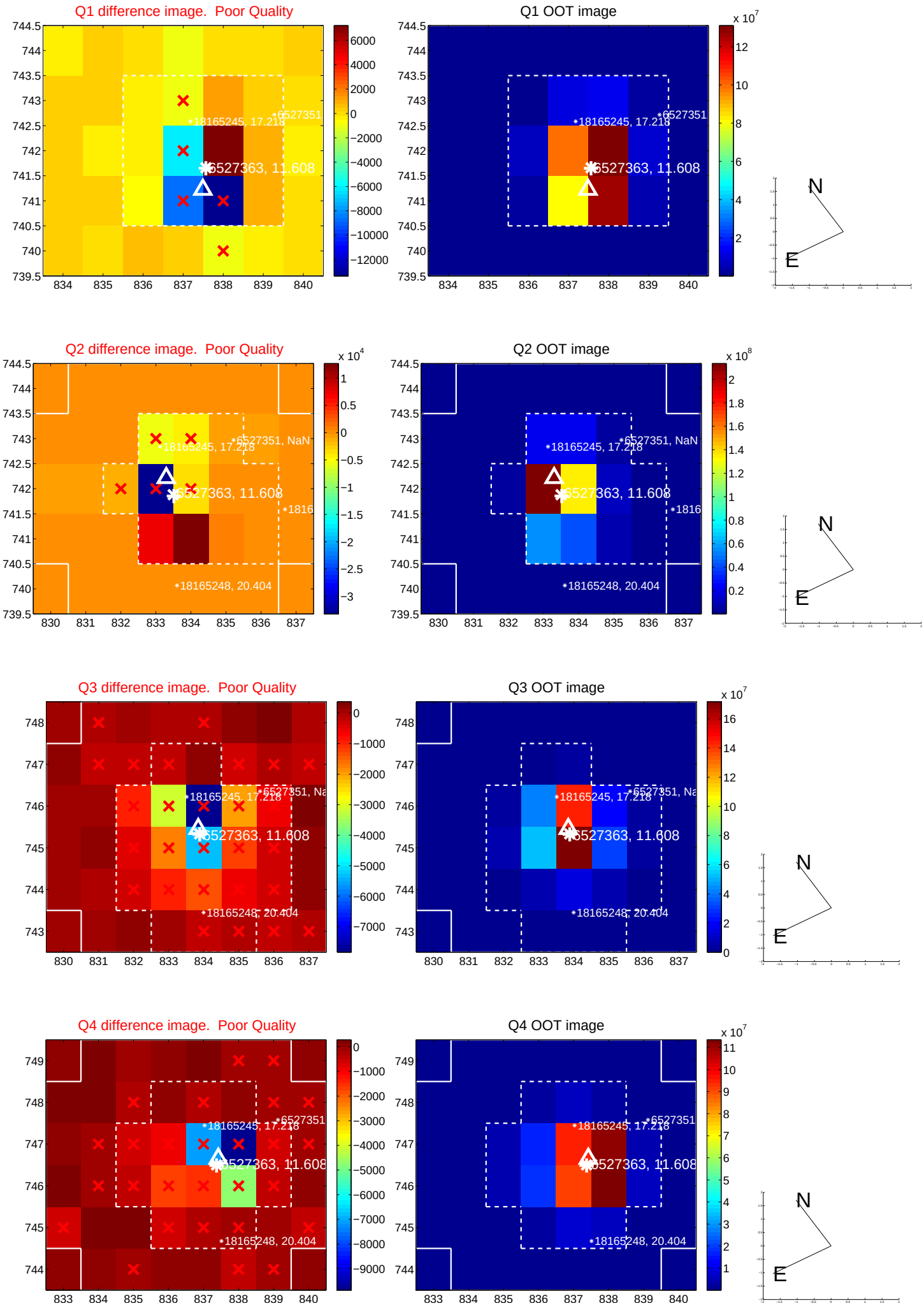
Supplemental centroid analysis for 006527363-01. Kepler magnitude: 11.61. Transit SNR 12.60
There are 0 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.136 ± 0.190	0.72	-0.070 ± 0.183	0.116 ± 0.159
PRF-fit source offset from KIC position	0.061 ± 0.197	0.31	-0.050 ± 0.186	0.035 ± 0.154
photometric centroid source offset	0.87 ± 0.65	1.34	-0.87 ± 0.65	-0.04 ± 0.57

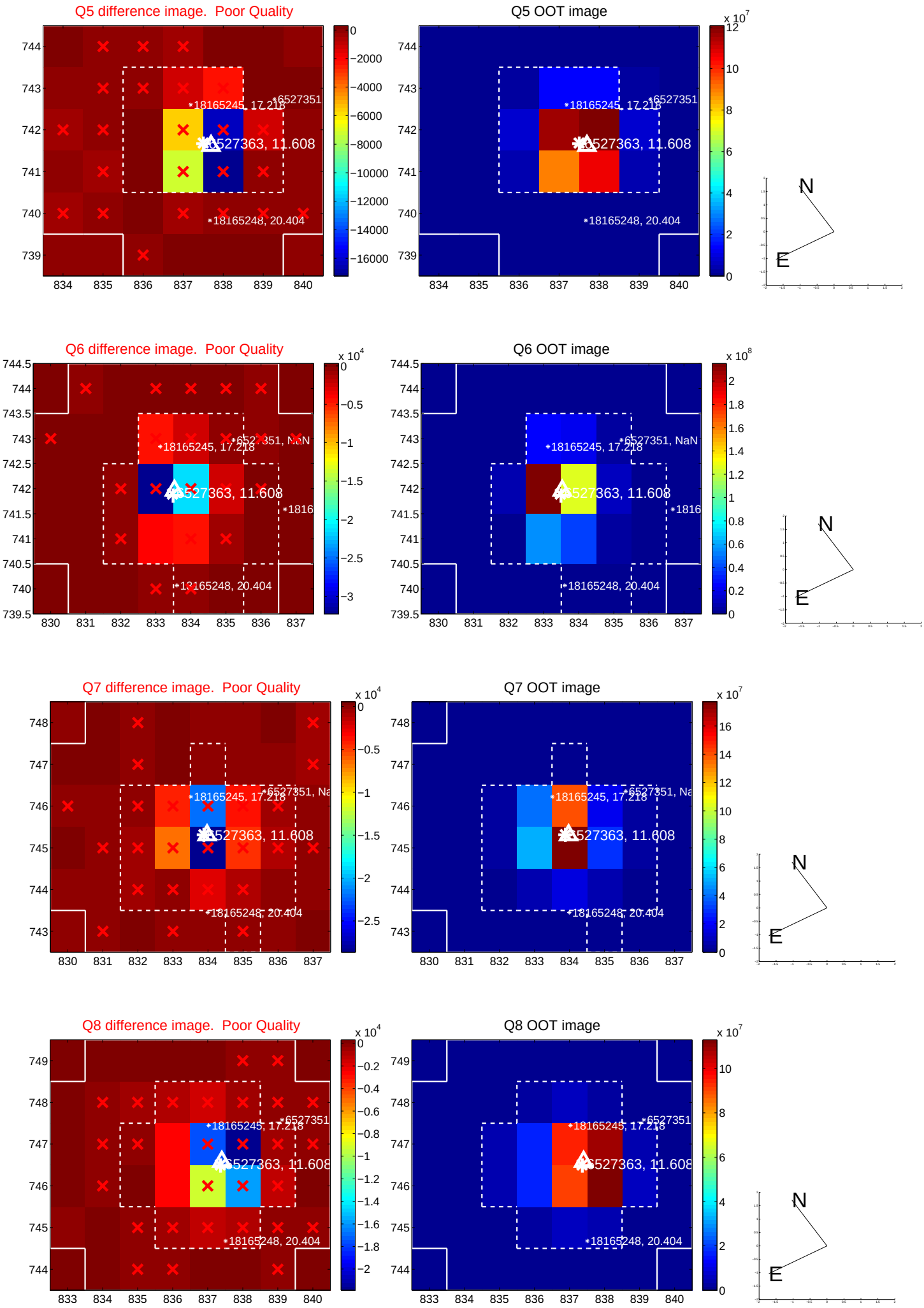


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

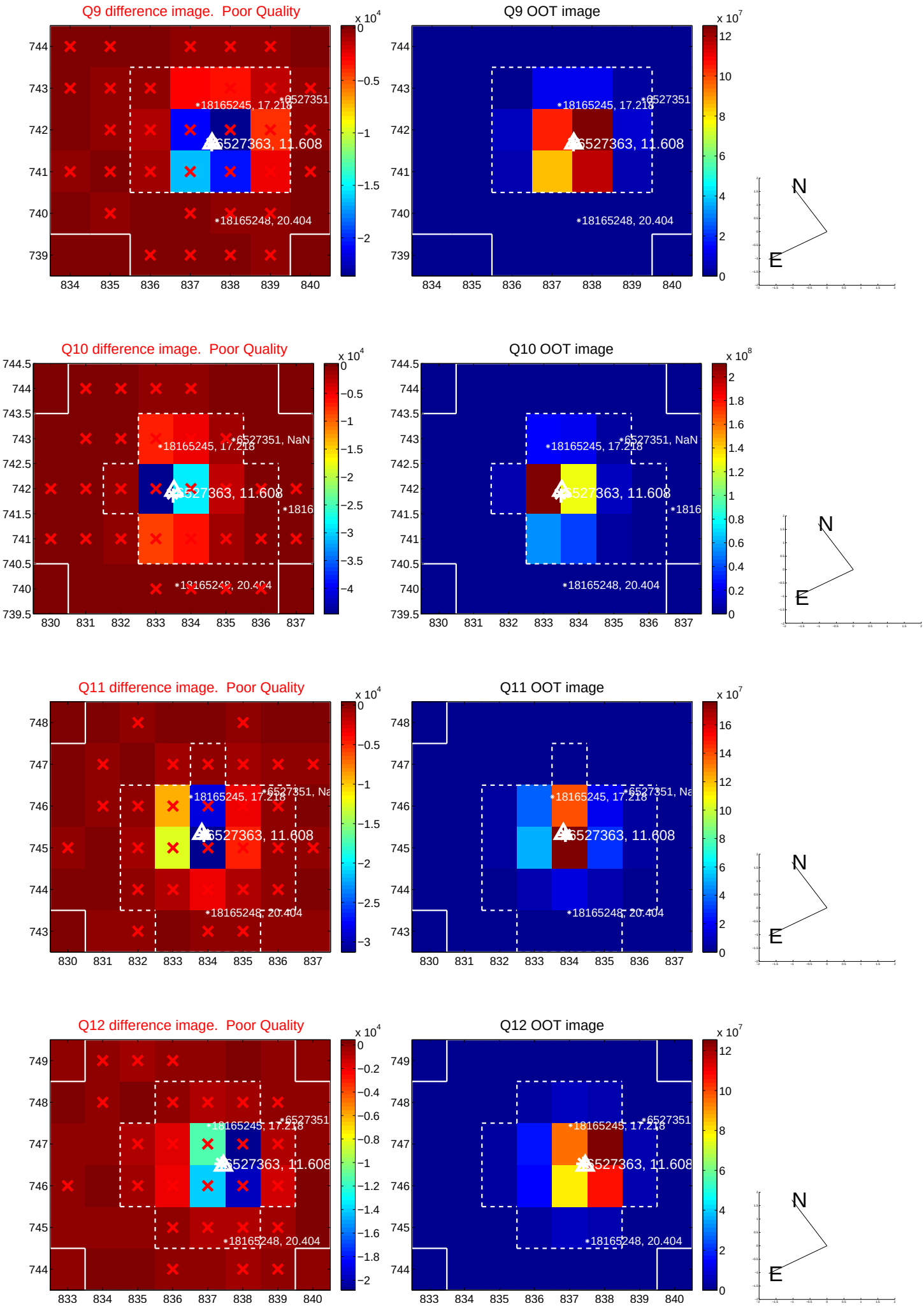
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



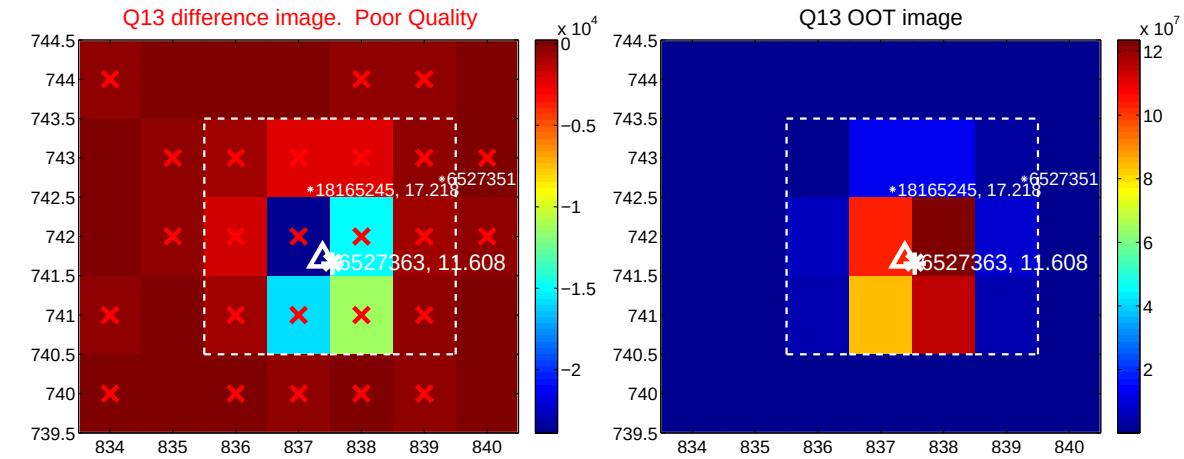
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

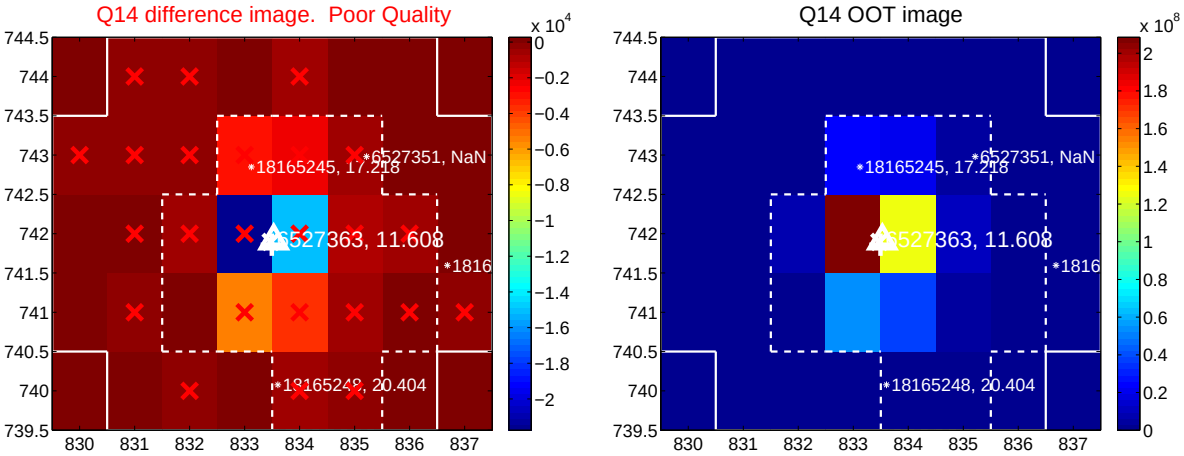


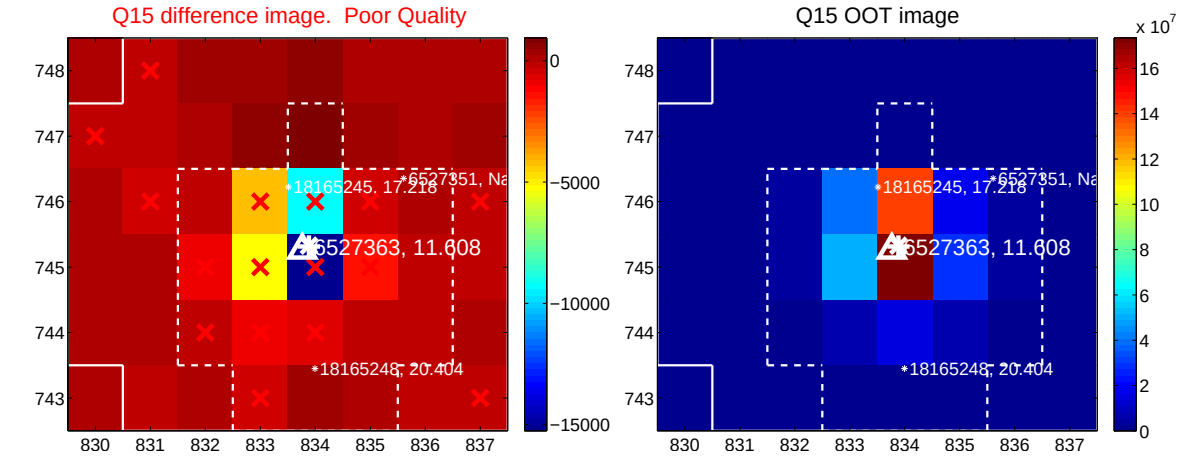
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

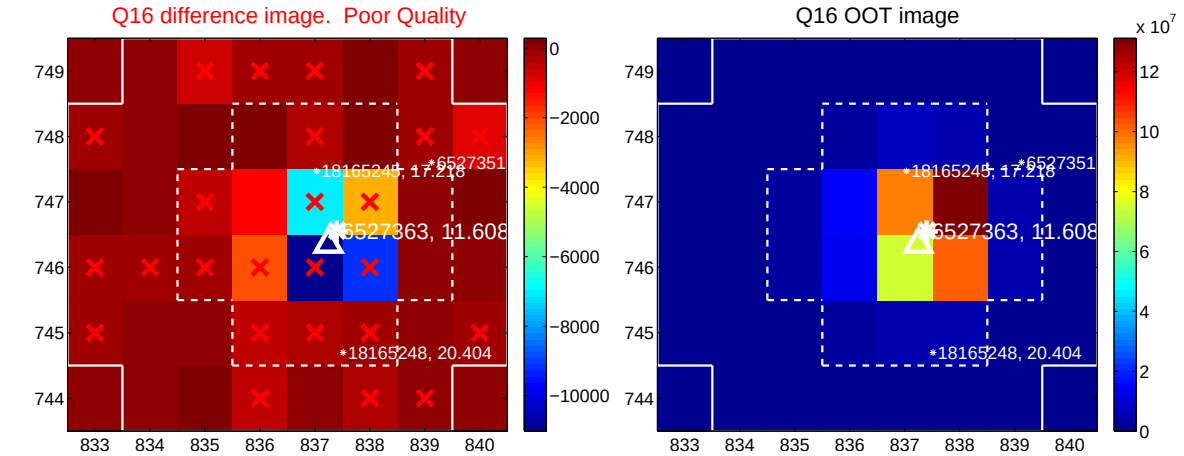


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

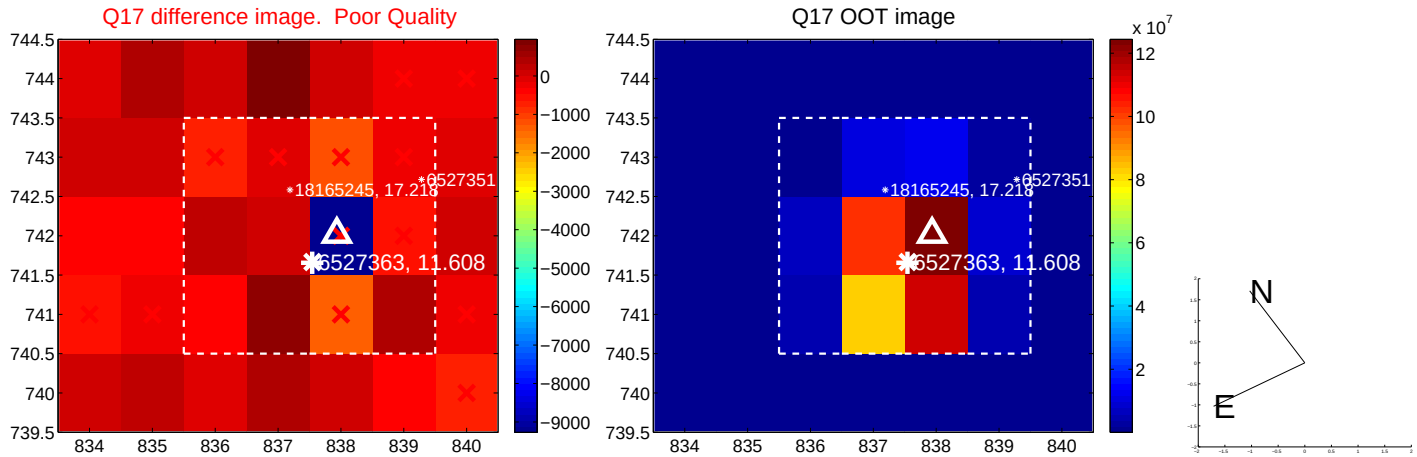


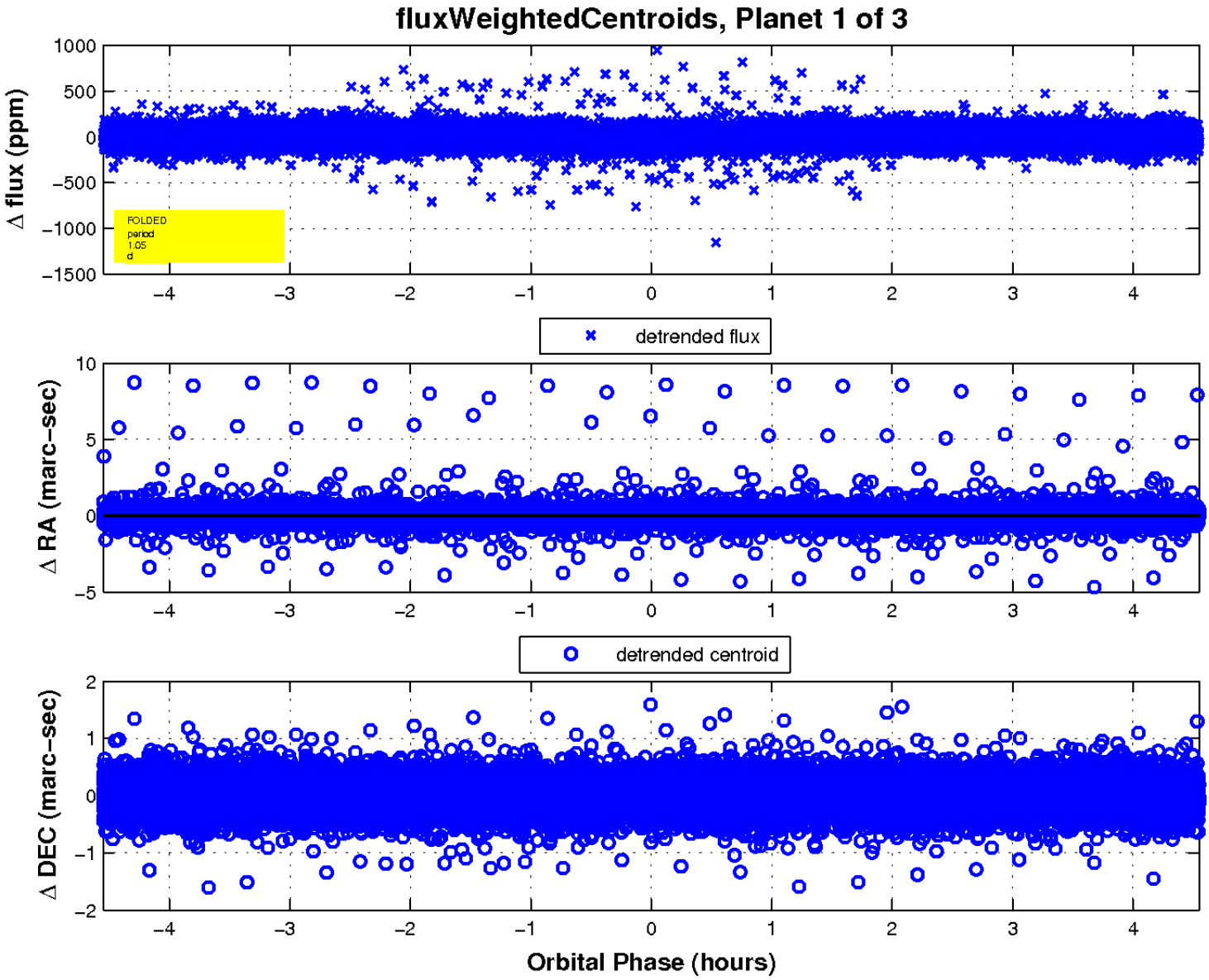




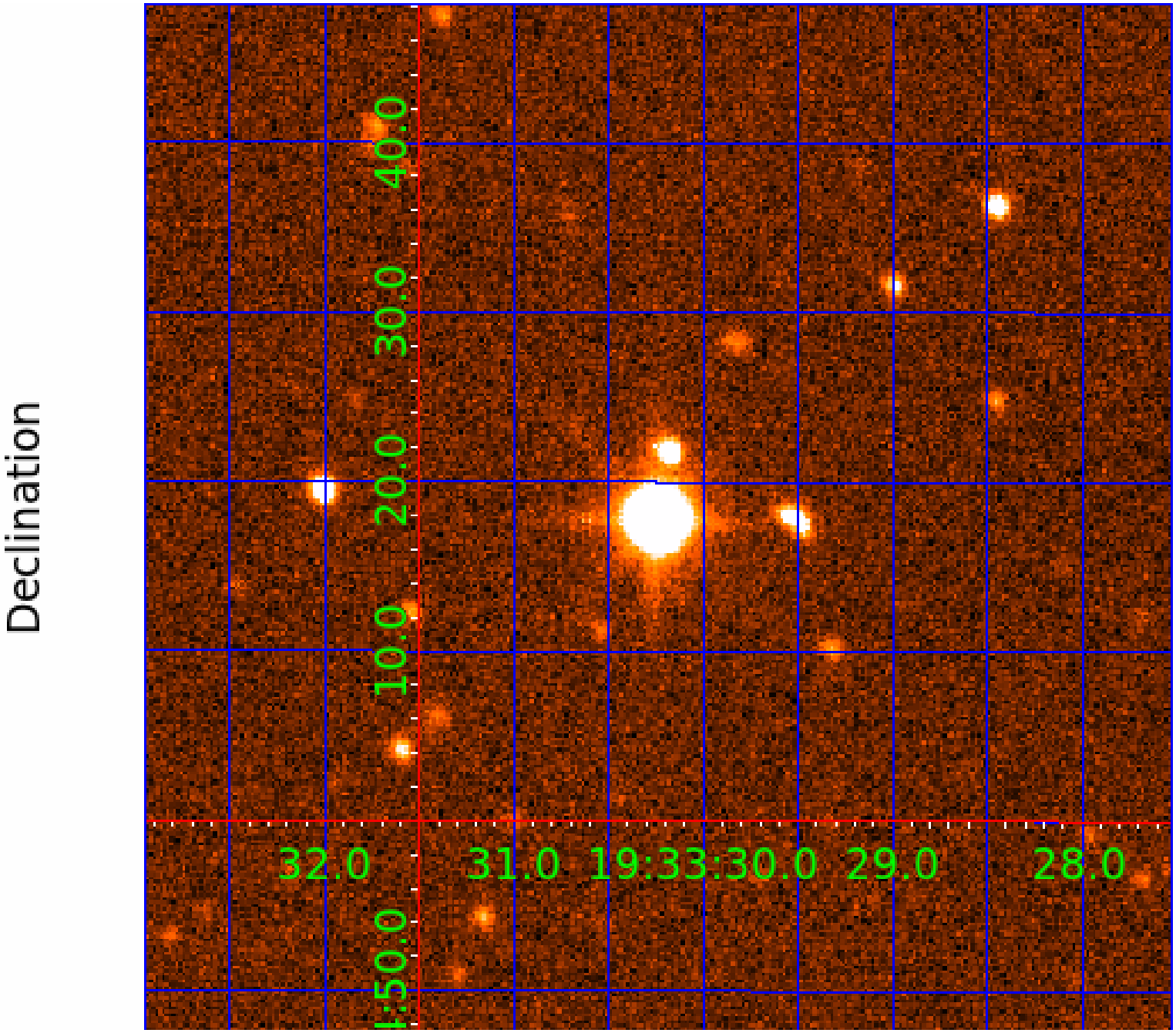


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image



KIC 006527363

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 ($S_\oplus$)
006527363-01	OBS	No	1.047418	131.639220	20.0	1.517	9.4	12.6	1.54	6749	0.74	8634.30
006527363-02	OBS	No	609.675534	344.600189	212.1	14.243	8.6	9.3	1.54	6749	2.61	1.78
006527363-03	OBS	No	0.523733	131.716018	4.1	0.720	8.0	2.5	1.54	6749	0.36	21755.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527363-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
006527363-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—ALL_TRANS_CHASES—INCONSISTENT_TRANS
006527363-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

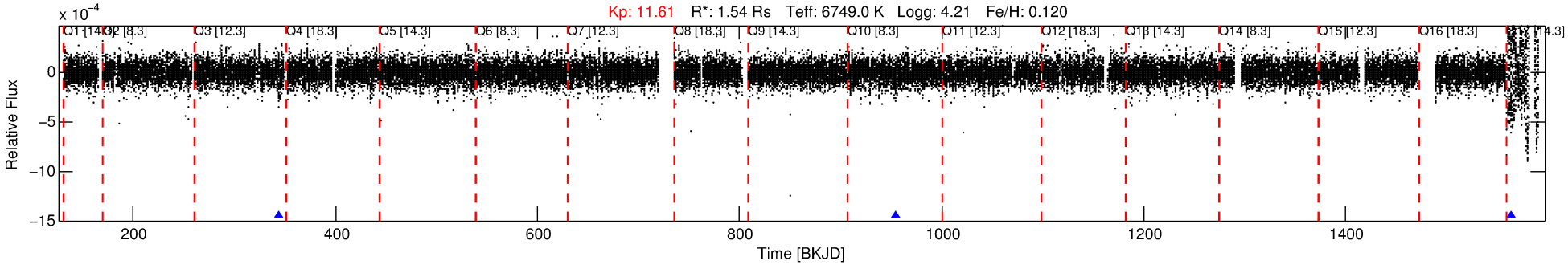
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

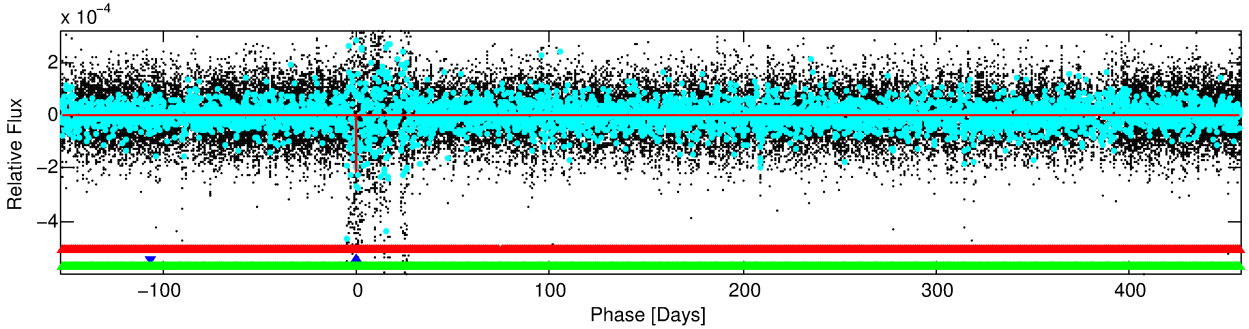
Ephemeris Match Information For 006527363-02

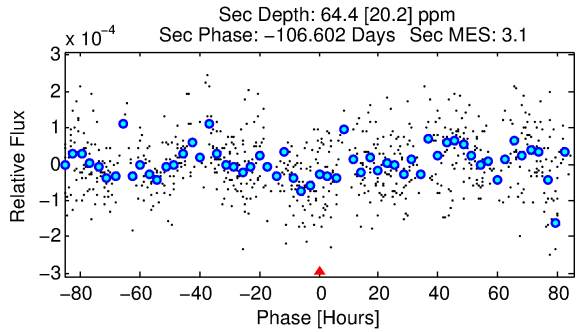
No Significant Match Found

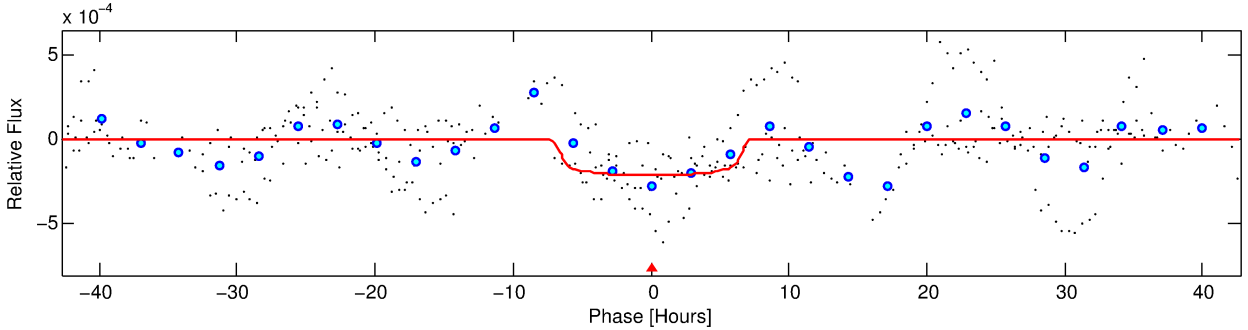
DV One-Page Summary

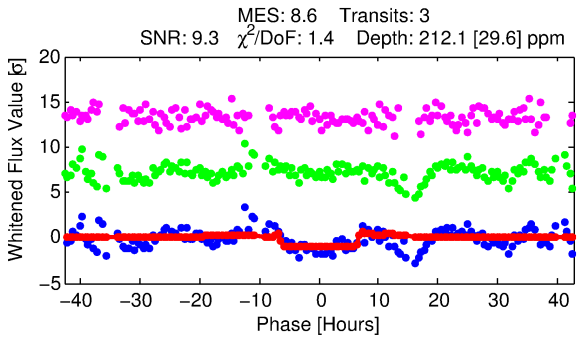
KIC: 6527363 Candidate: 2 of 3 Period: 609.676 d

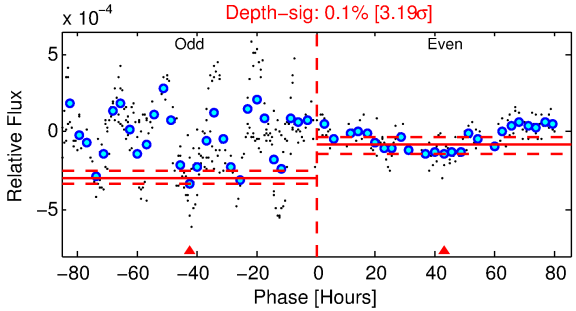


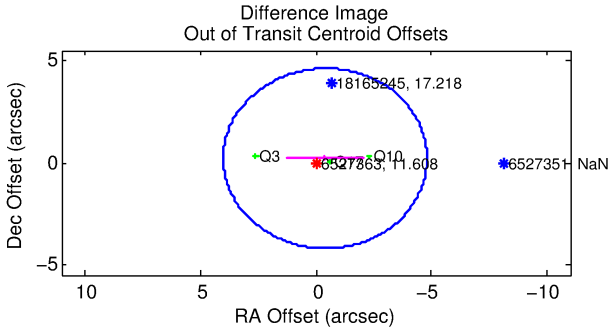












DV Fit Results:

Period = 609.67553 [0.01585] d
Epoch = 344.6002 [0.0200] BKJD
Rp/R* = 0.0155 [0.0018]
a/R* = 156.72 [79.19]
b = 0.90 [0.11]

Seff = 1.78 [0.74]
Teq = 294 [31] K
Rp = 2.61 [0.92] Re
a = 1.5763 [0.4266] AU

Ag = 12945.03 [7057.11] [1.83σ]
Teffp = 4855 [516] K [8.82σ]

DV Diagnostic Results:

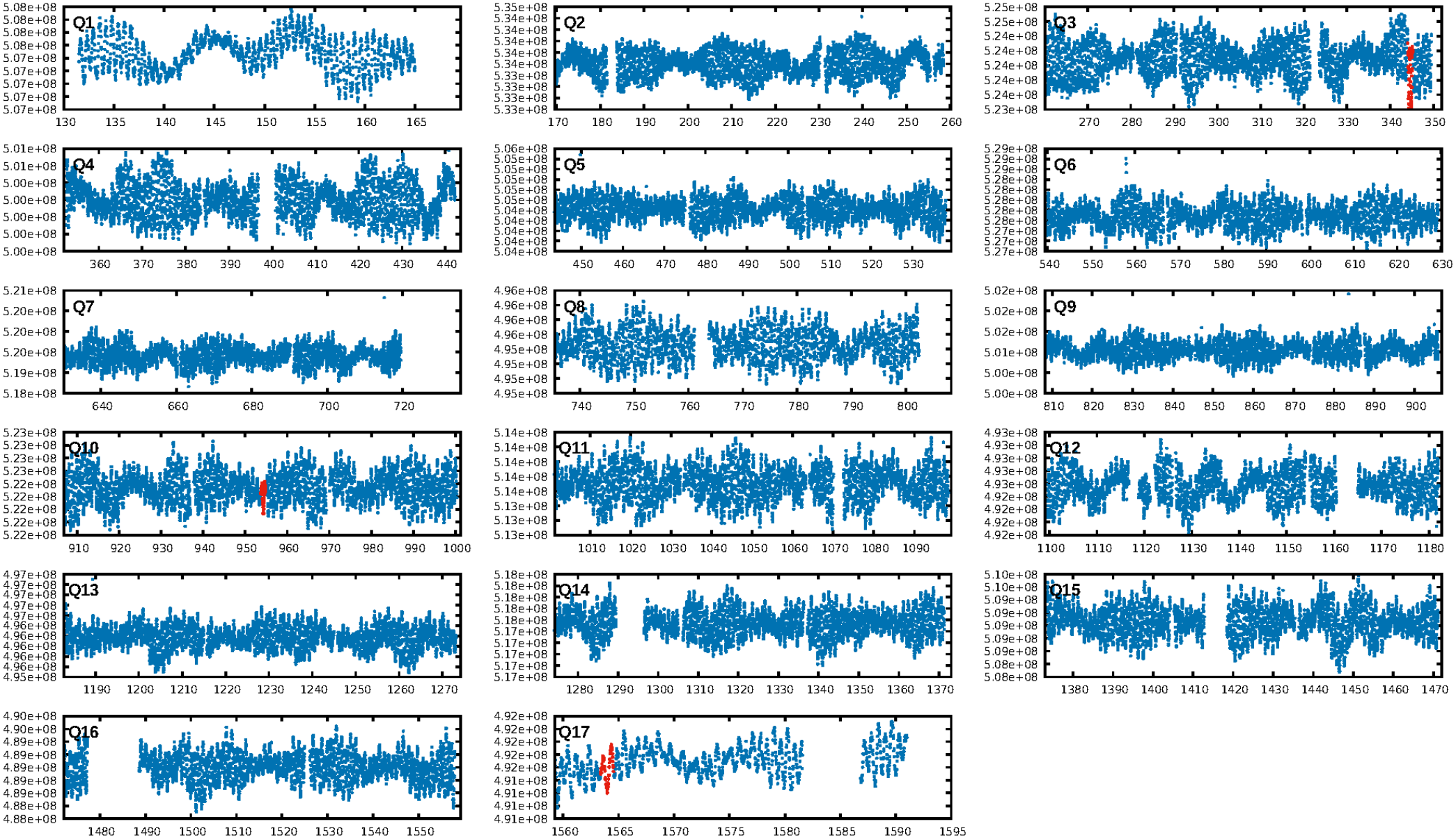
ShortPeriod−sig: 100.0% [1019.78σ]
LongPeriod−sig: N/A
ModelChiSquare2−sig: 0.6%
ModelChiSquareGof−sig: 85.6%
Bootstrap−pfa: 1.27e−13
RollingBand−fgt: 1.00 [2/2]
GhostDiagnostic−chr: 5.242

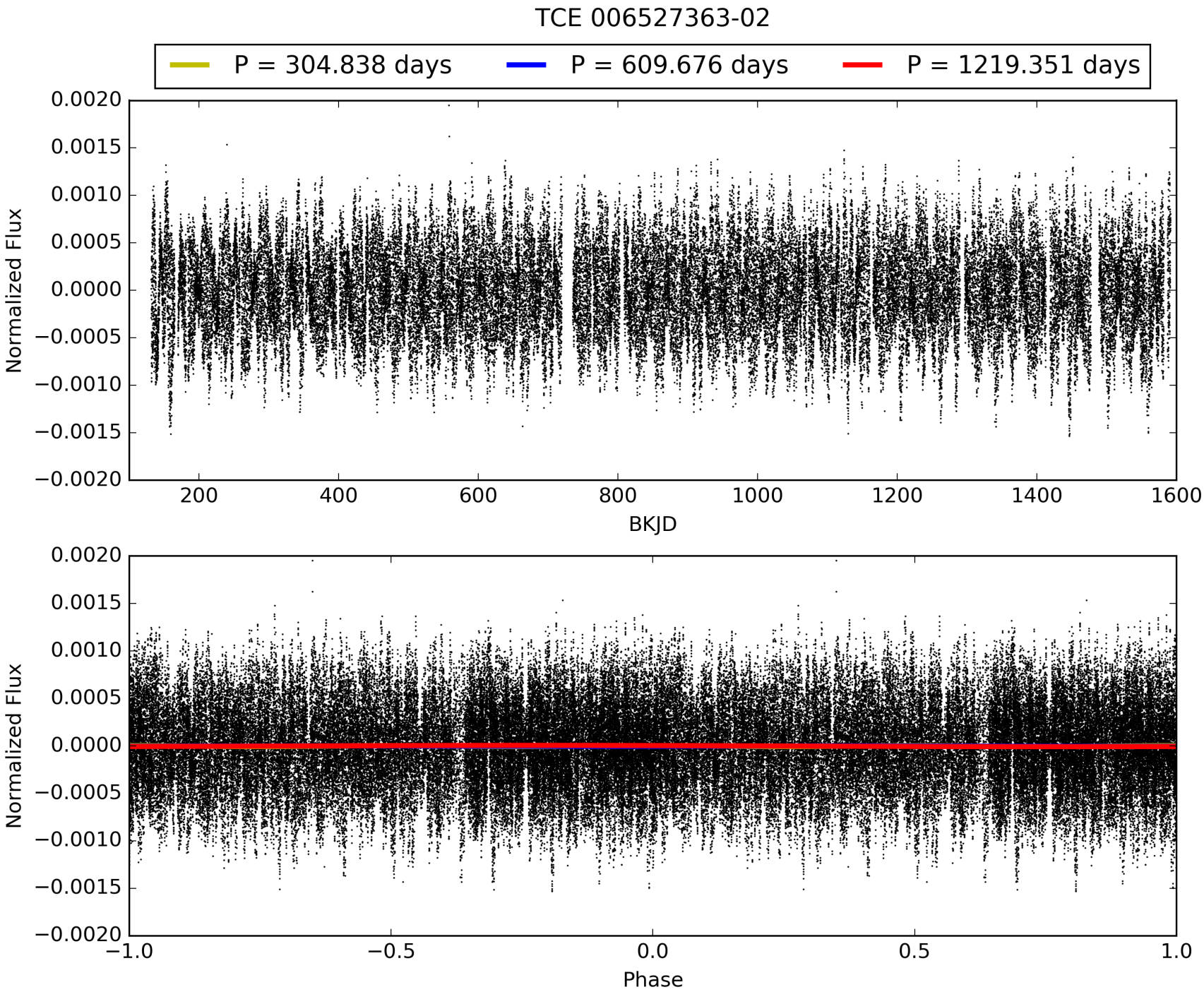
Centroid−sig: N/A
Centroid−so: 0.268 arcsec [0.59σ]
OotOffset−rm: 0.449 arcsec [0.31σ]
KicOffset−rm: 0.402 arcsec [0.29σ]
OotOffset−st: 1/1/0/1 [3]
KicOffset−st: 1/1/0/1 [3]
DiffImageQuality−fgm: 1.00 [3/3]
DiffImageOverlap−fno: 0.00 [0/3]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03−Feb−2016 03:21:43 Z

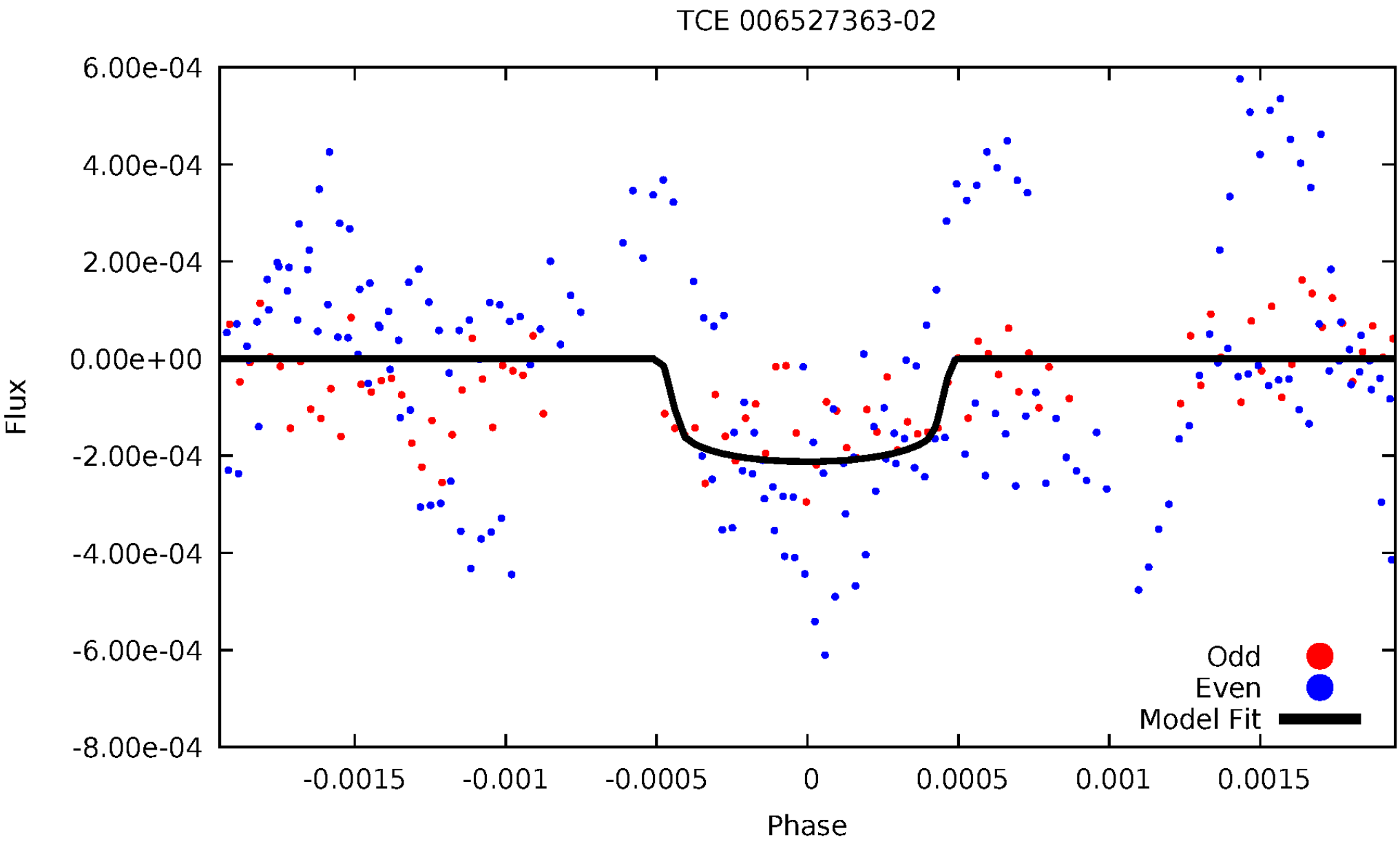
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006527363-02, PDC Light Curves

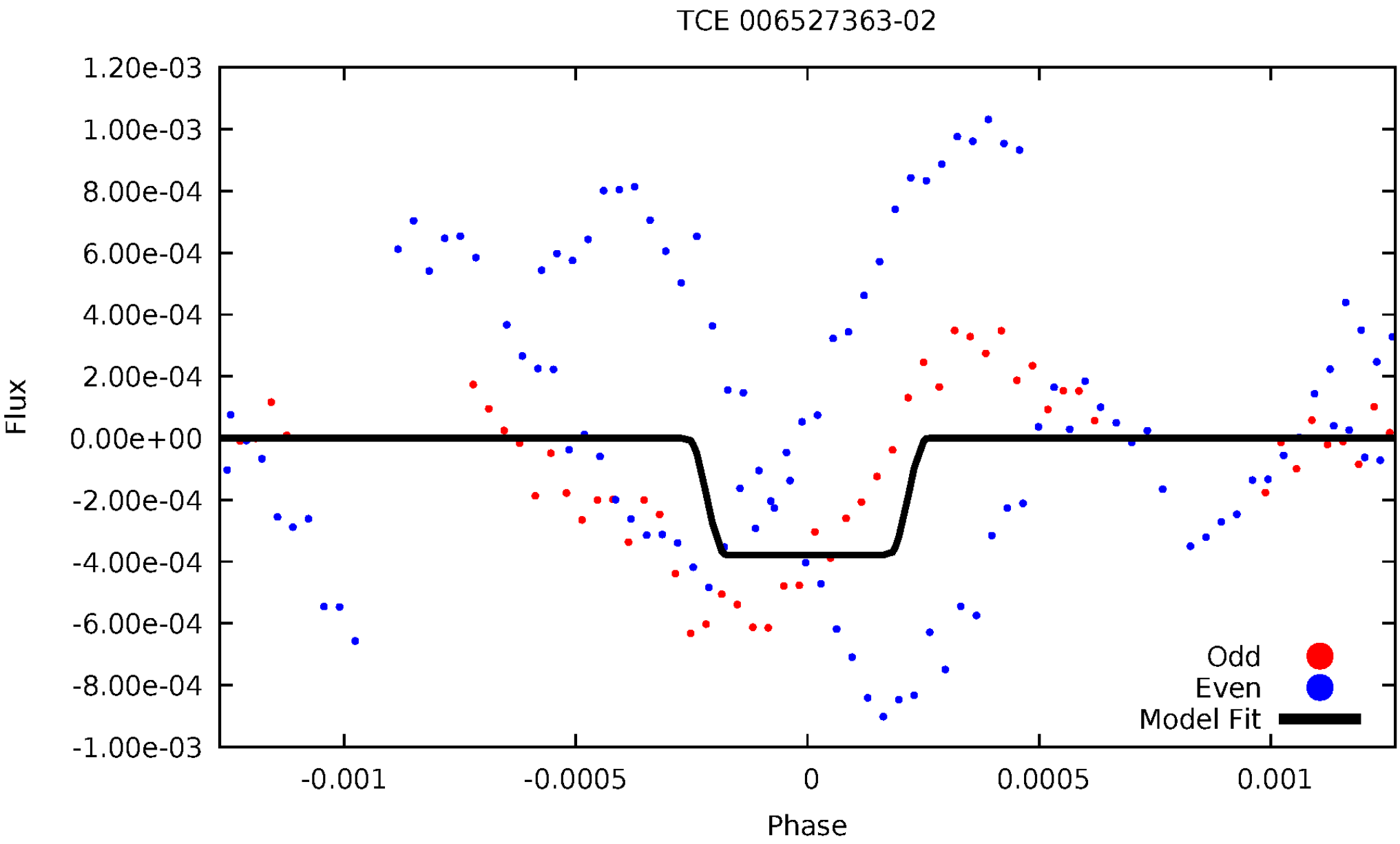



TCE 006527363-02
P = 304.838 days
P = 609.676 days
P = 1219.351 days
Normalized Flux
BKJD
Normalized Flux
Phase

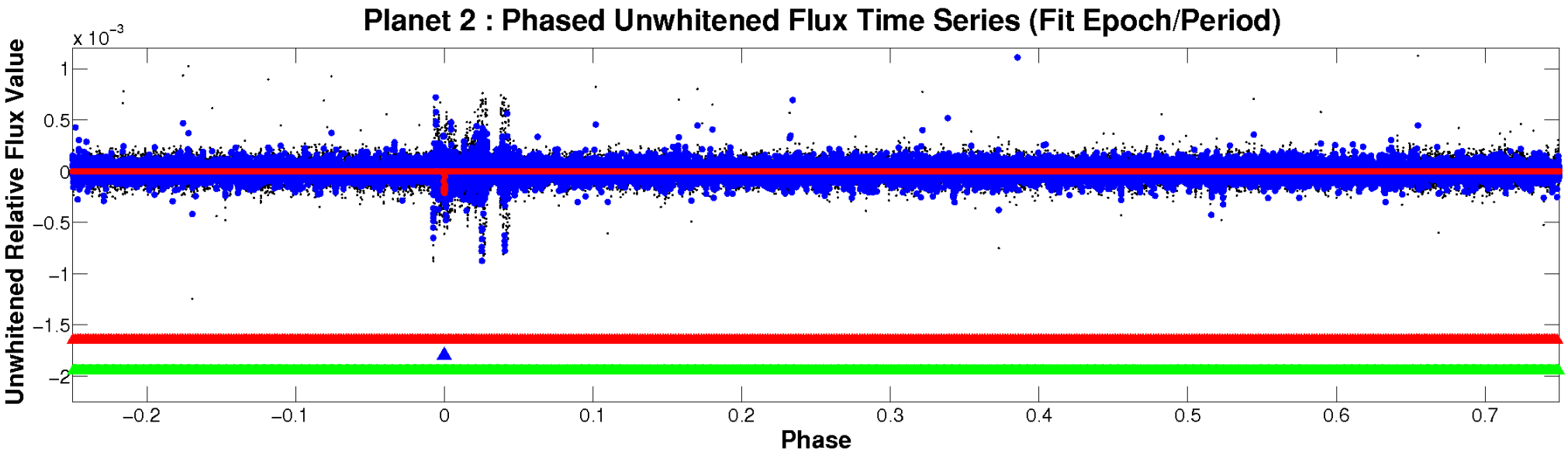
DV Odd/Even

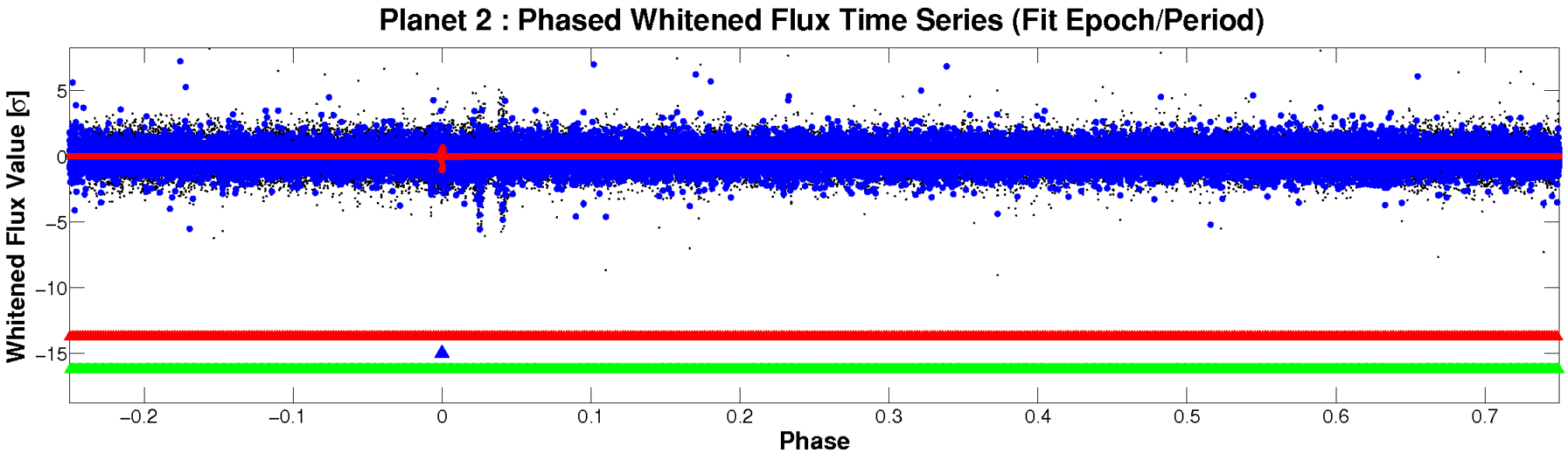

TCE 006527363-02
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
-8.00e-04
Flux
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006527363-02
1.20e-03
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
-0.001
-0.0005
0
0.0005
0.001
Phase
Odd
Even
Model Fit

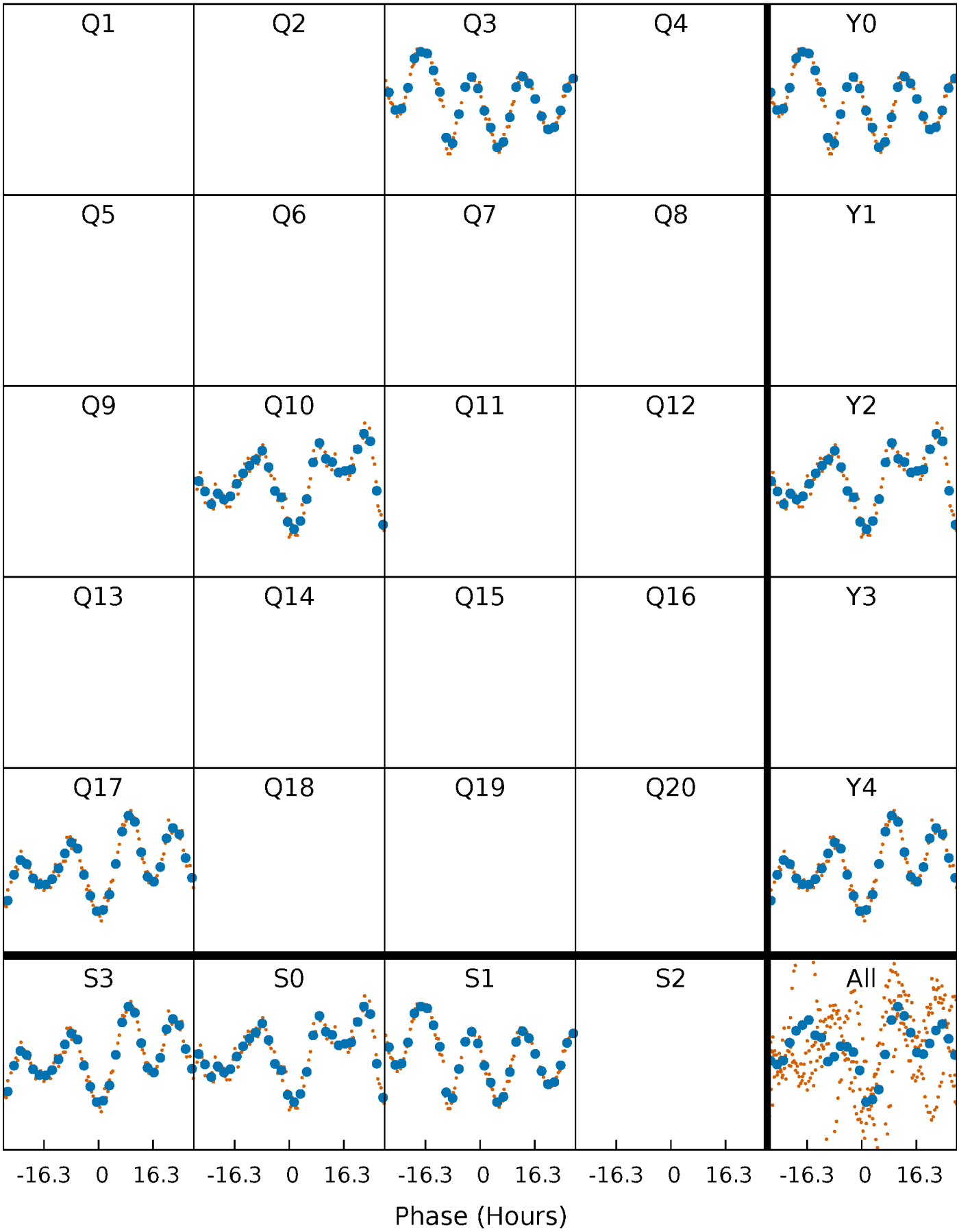
Non-Whitened Vs. Whitened Light Curve





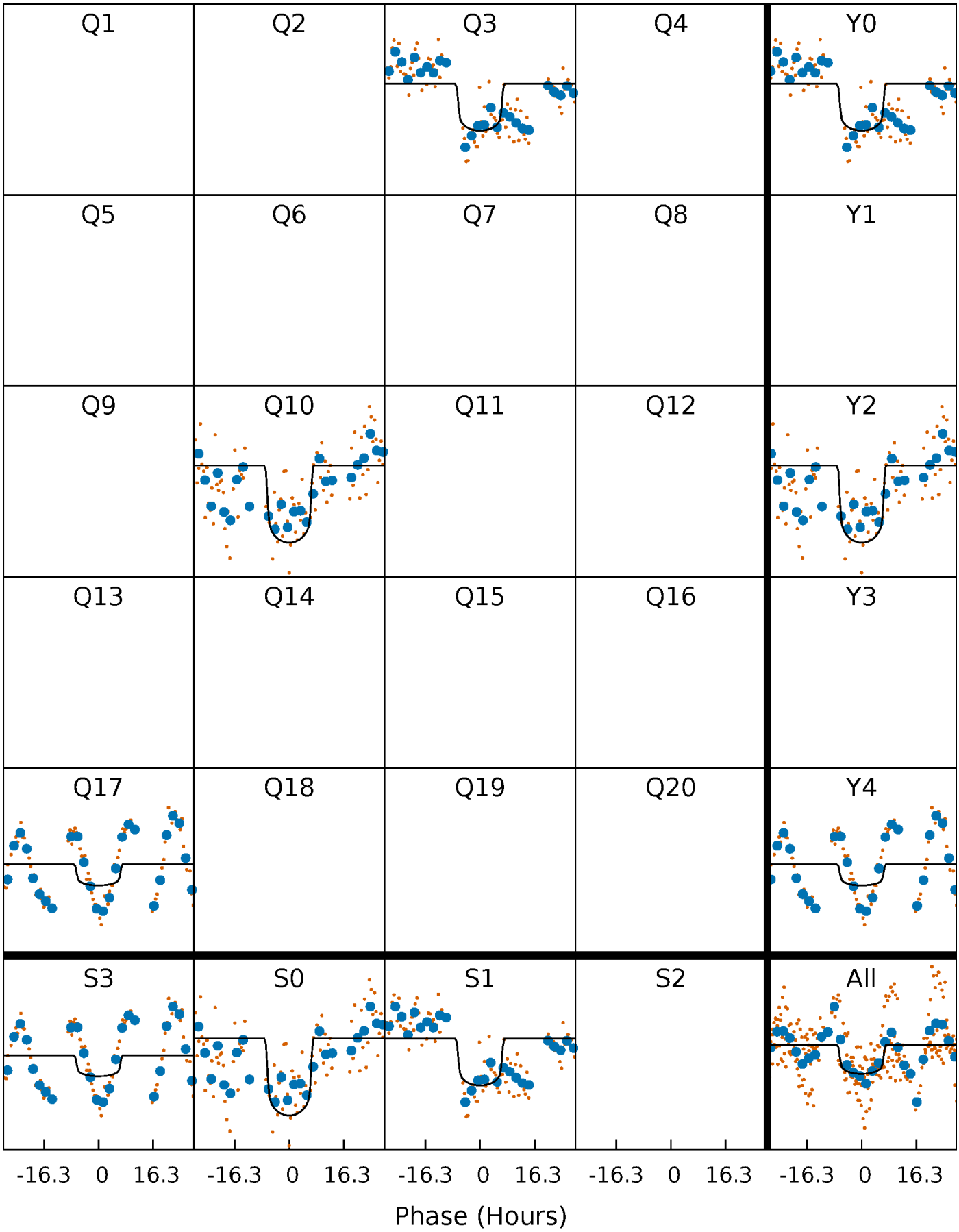
PDC Quarter-Phased Transit Curves

TCE 006527363-02 P=609.675534 Days T_0=344.600189 (BKJD)



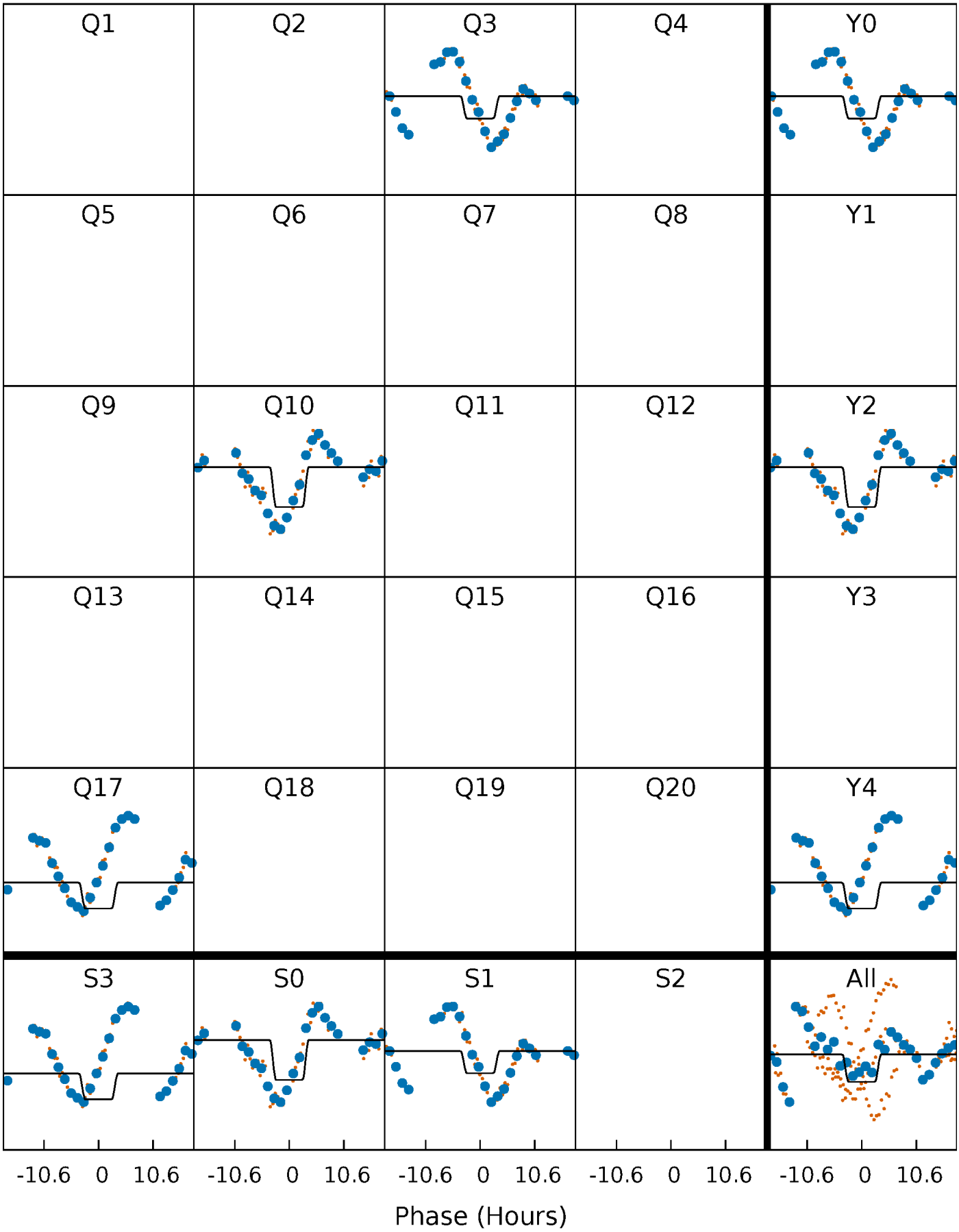
DV Quarter-Phased Transit Curves

TCE 006527363-02 P=609.675534 Days T_0=344.600189 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

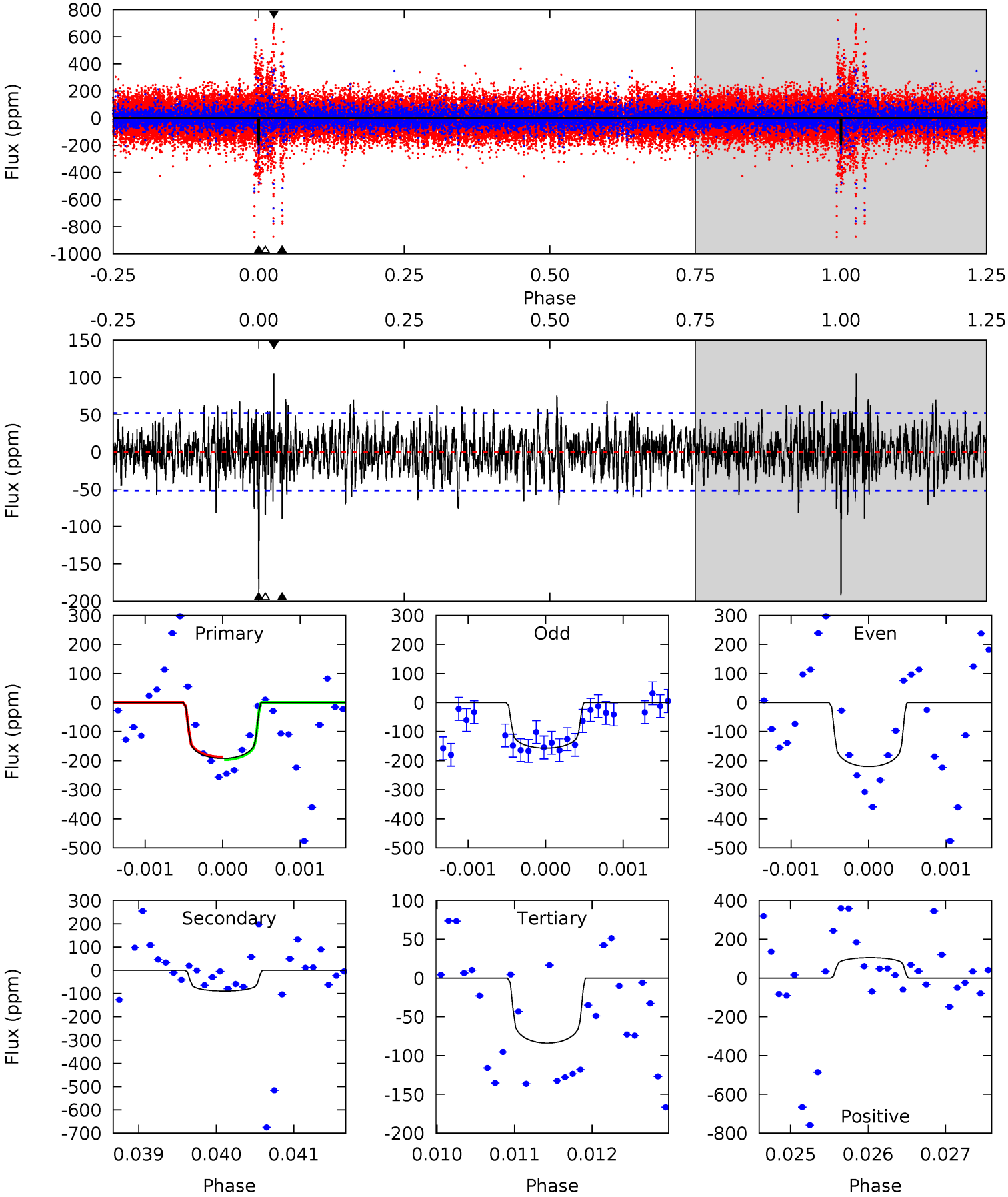
TCE 006527363-02 P=609.689752 Days T_0=344.737262 (BKJD)



DV Model-Shift Uniqueness Test

006527363-02, P = 609.675534 Days, E = 344.600189 Days

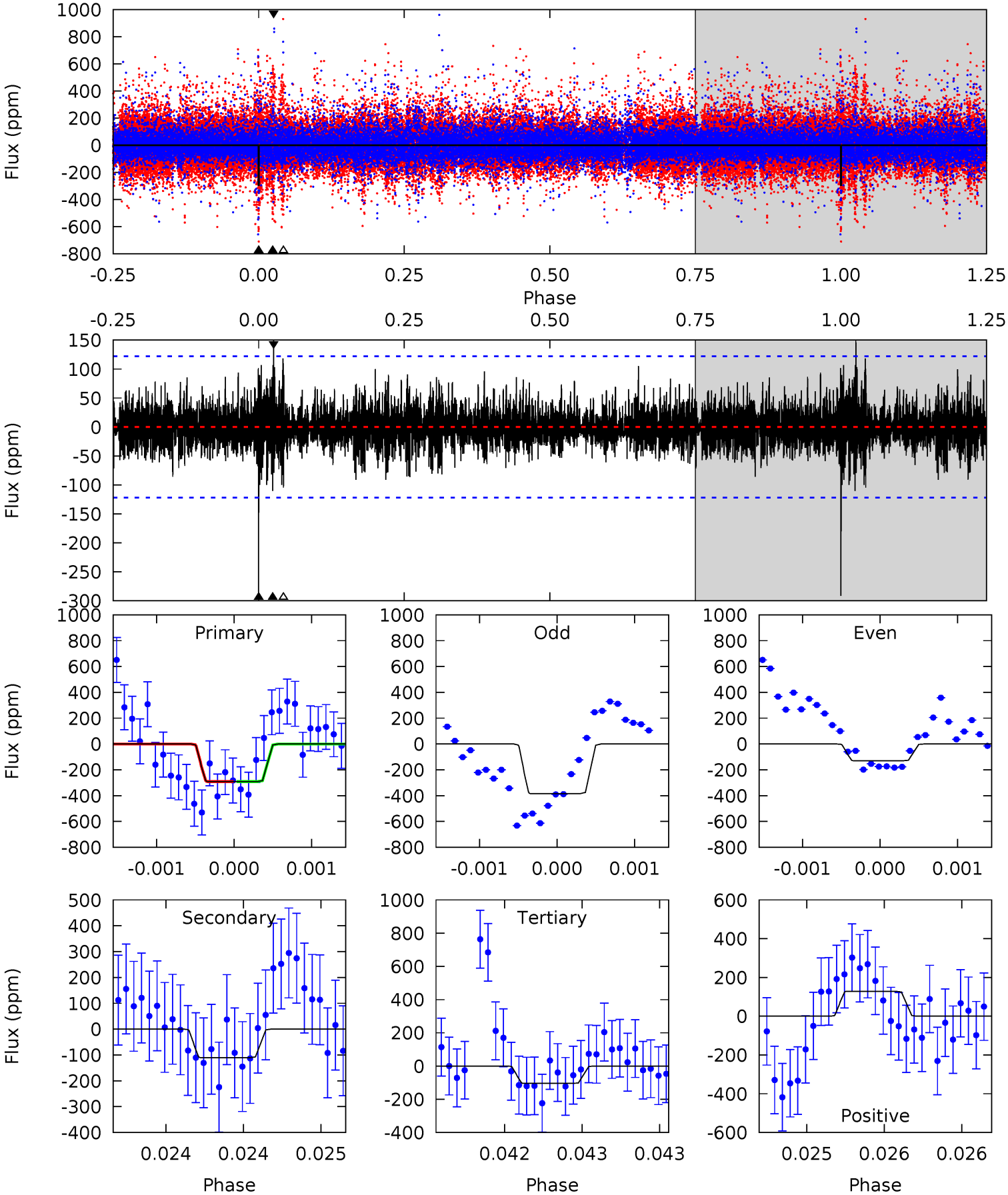
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.1	9.32	8.76	11.0	5.45	3.29	2.38	11.3	9.11	0.56	-1.65	3.19	0.94	0.35	0.46



Alt Model-Shift Uniqueness Test

006527363-02, P = 609.689752 Days, E = 344.737262 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.3	5.04	4.77	5.86	5.57	3.48	1.20	8.54	7.45	0.27	-0.82	6.75	0.56	0.34	0.00



Stellar Parameters For KIC 006527363

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6749^{+189}_{-283}	$4.210^{+0.108}_{-0.201}$	$0.120^{+0.200}_{-0.350}$	$1.541^{+0.514}_{-0.277}$	$1.405^{+0.196}_{-0.218}$	$0.541^{+0.290}_{-0.282}$
	+3%/-4%	+3%/-5%	+167%/-292%	+33%/-18%	+14%/-16%	+54%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006527363-02 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-89±10	$2.63^{+0.56}_{-0.39}$	414^{+32}_{-27}	5254^{+385}_{-315}	16846^{+7069}_{-5205}
Alt.	-110±22	$3.35^{+0.72}_{-0.47}$	417^{+35}_{-26}	5019^{+325}_{-335}	12807^{+5870}_{-4271}

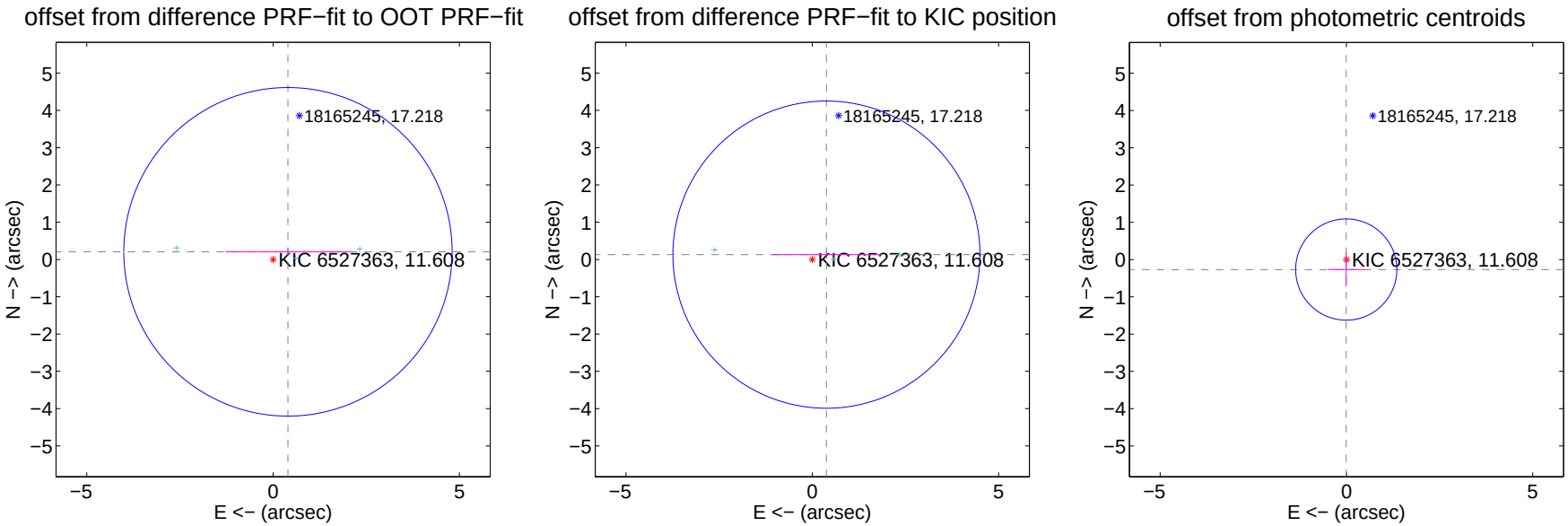
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

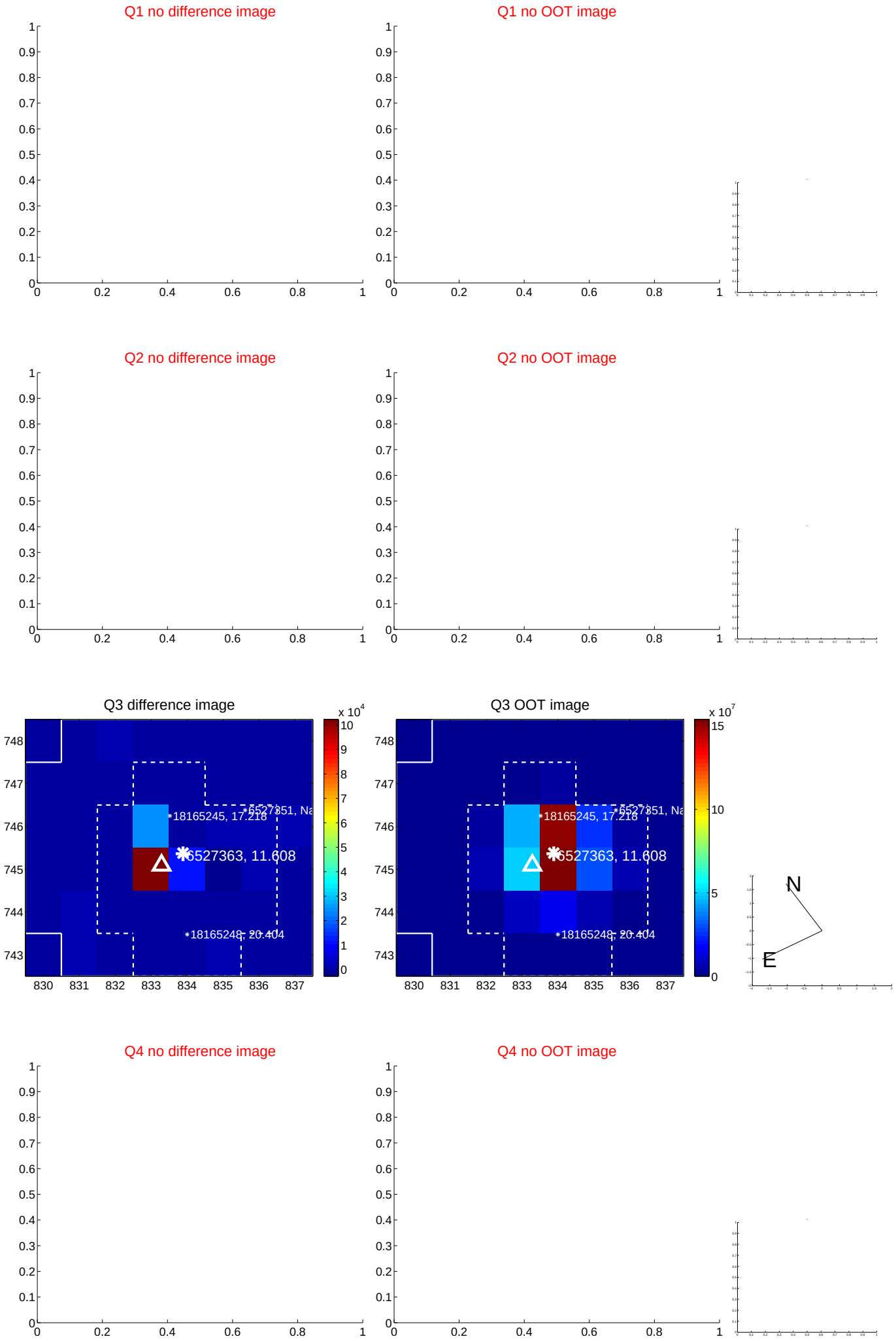
Supplemental centroid analysis for 006527363-02. Kepler magnitude: 11.61. Transit SNR 9.28
There are 3 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.449 ± 1.469	0.31	-0.399 ± 1.681	0.206 ± 0.099
PRF-fit source offset from KIC position	0.402 ± 1.374	0.29	-0.380 ± 1.452	0.130 ± 0.102
photometric centroid source offset	0.27 ± 0.45	0.59	0.01 ± 0.49	-0.27 ± 0.45

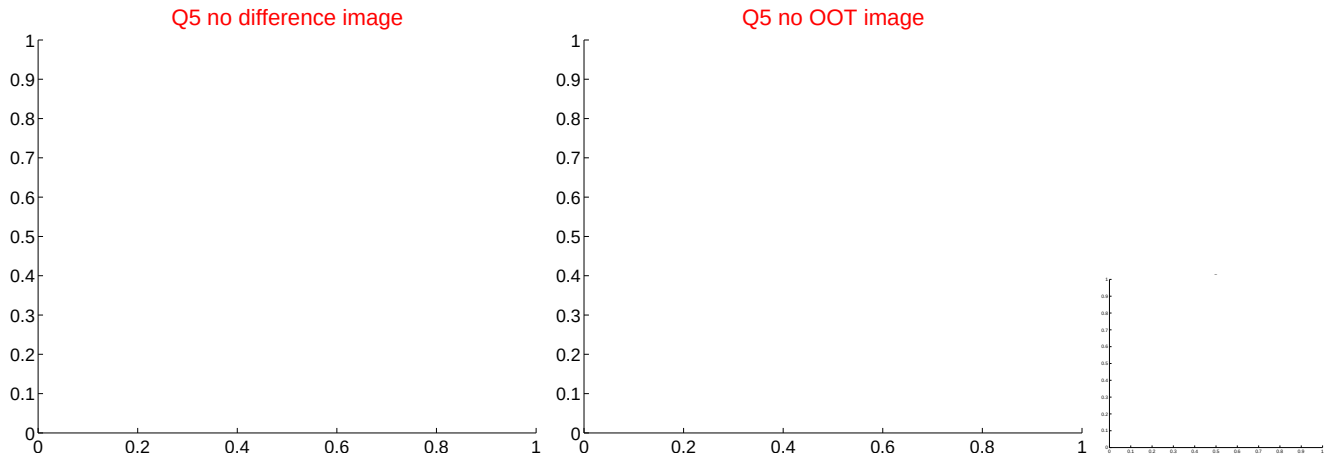


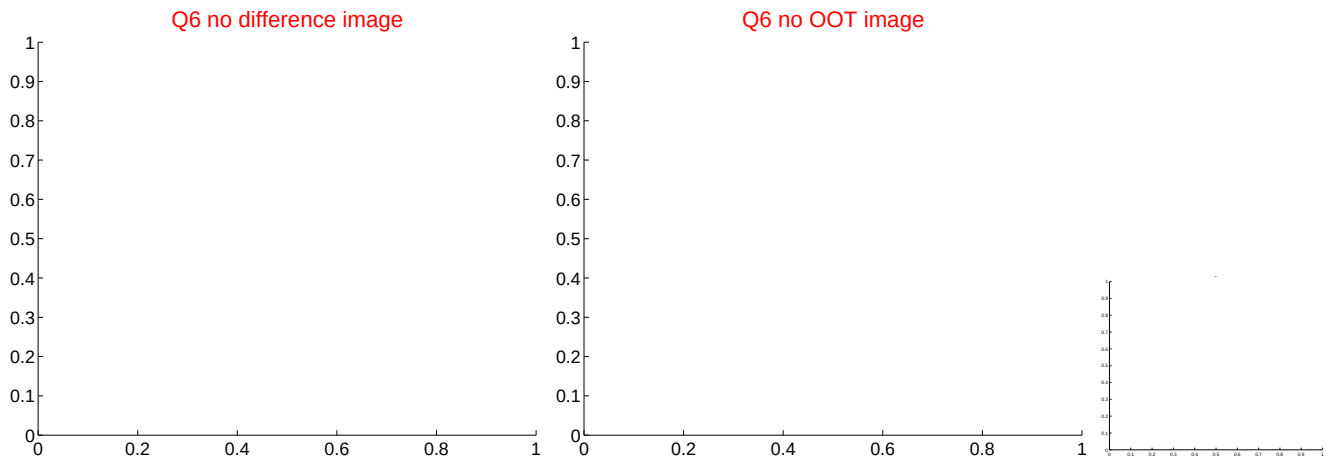
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

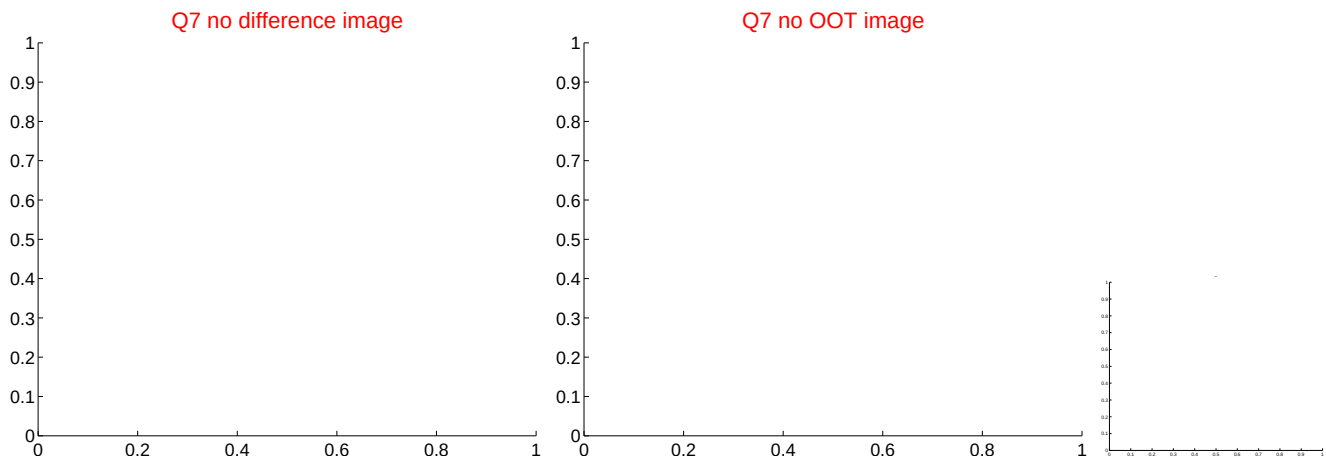
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

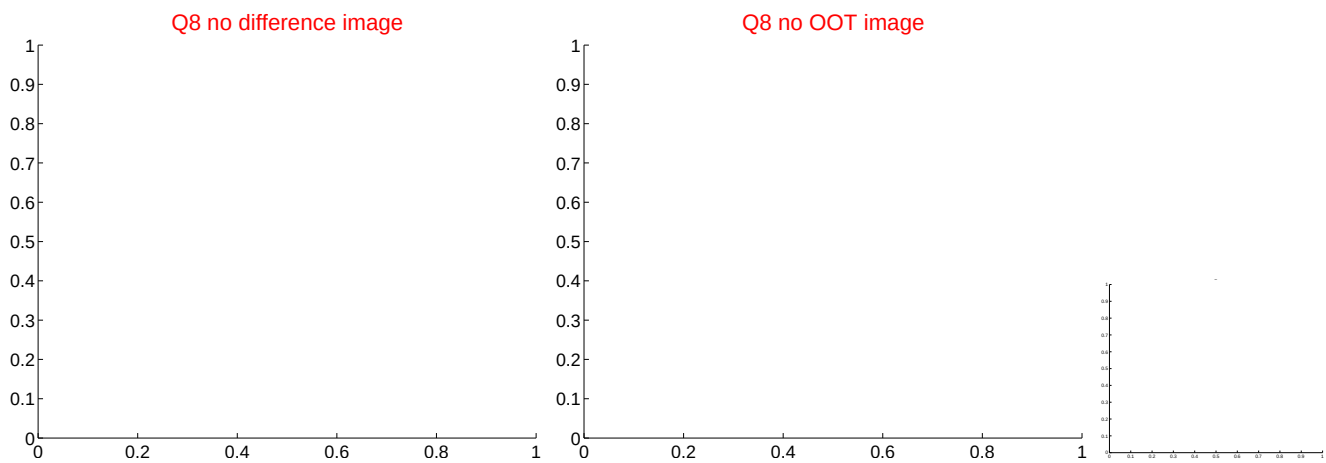


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

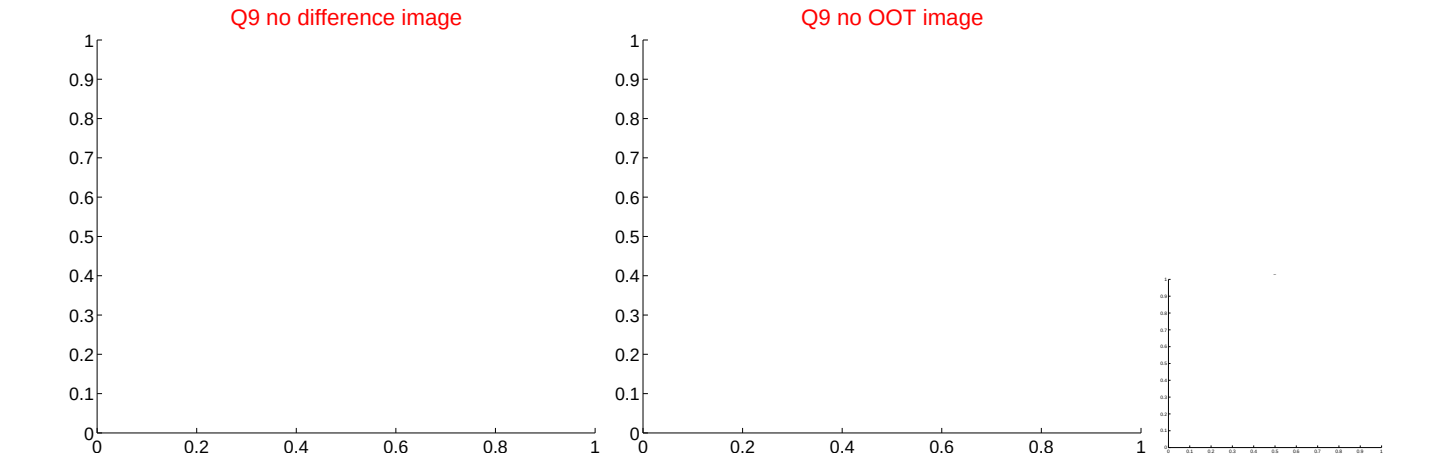


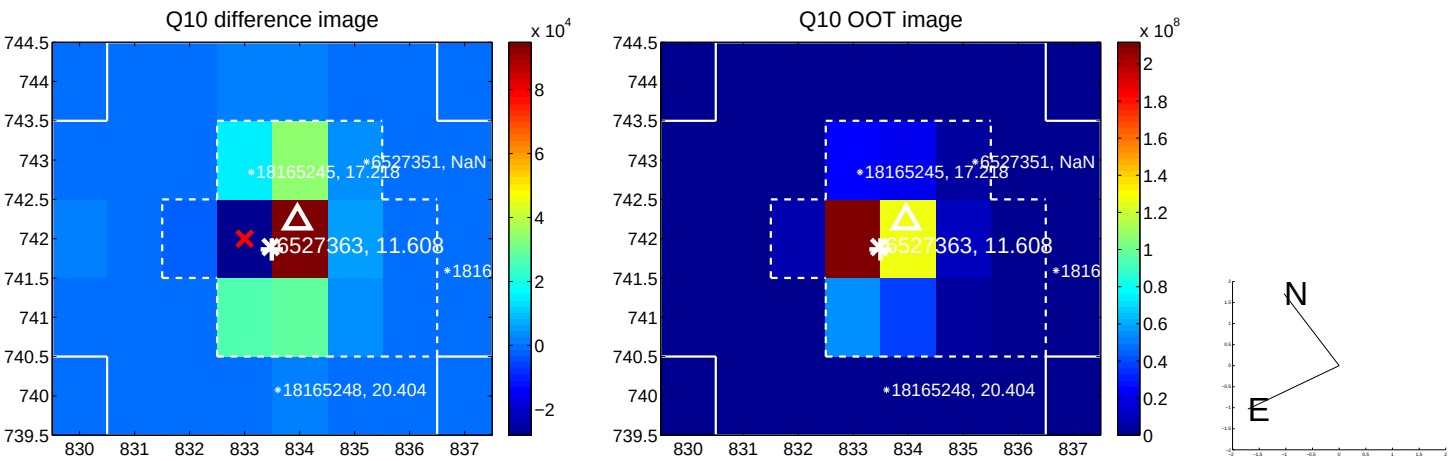


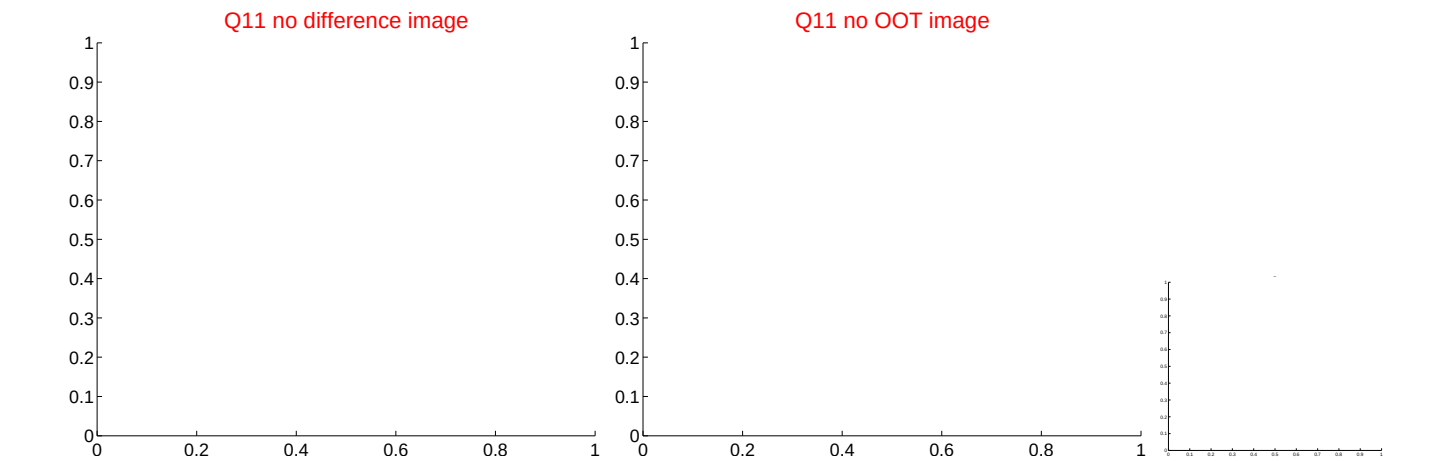


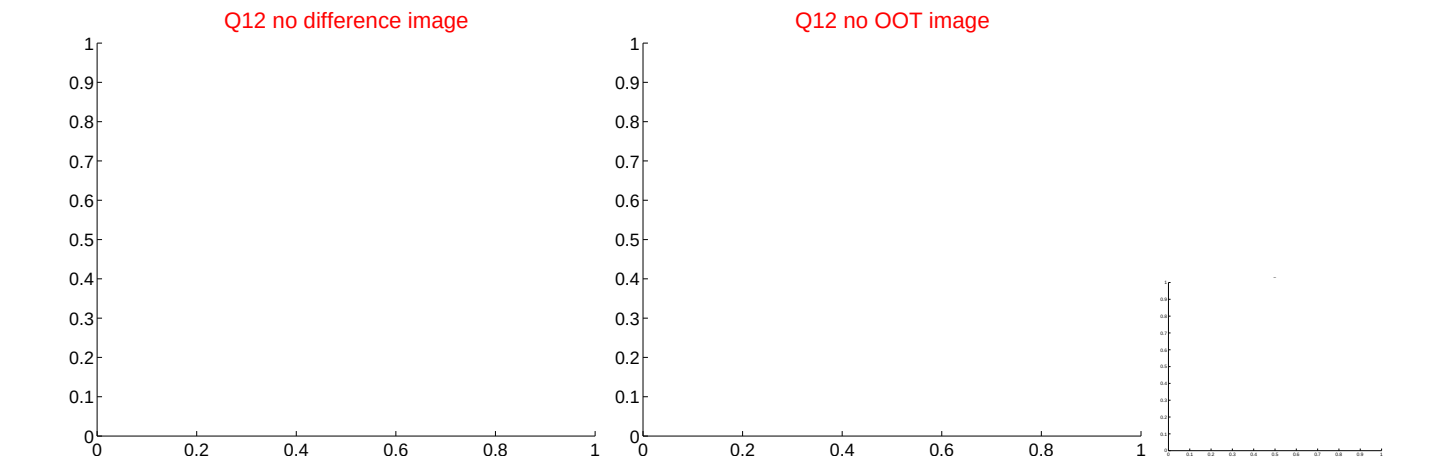


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

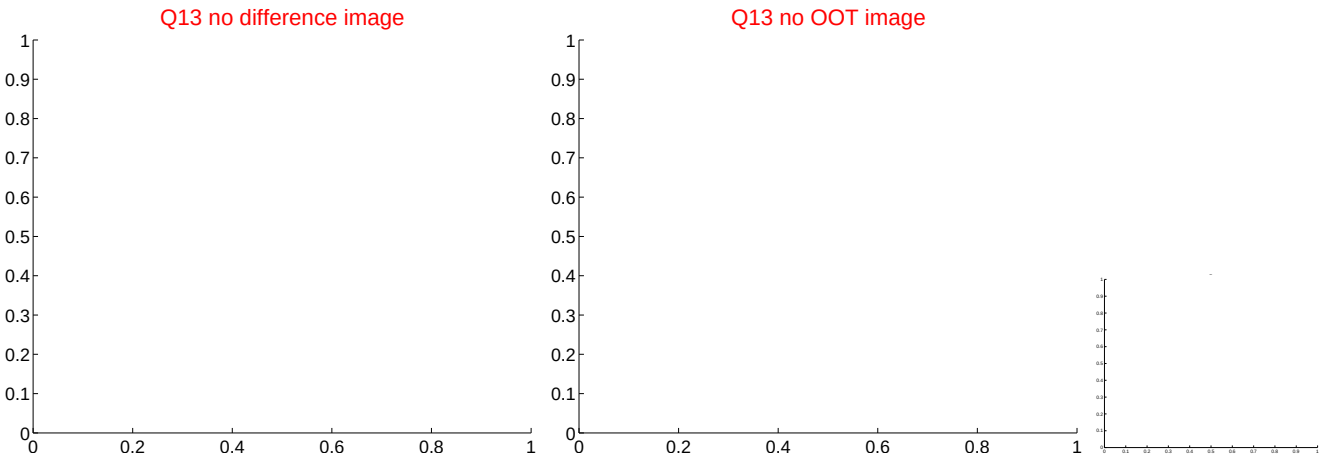


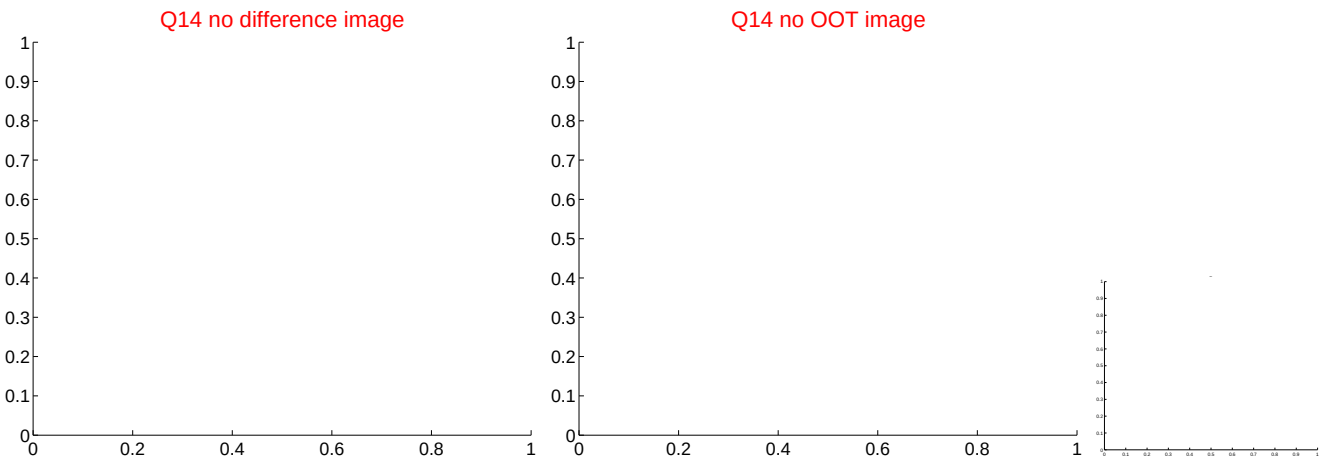


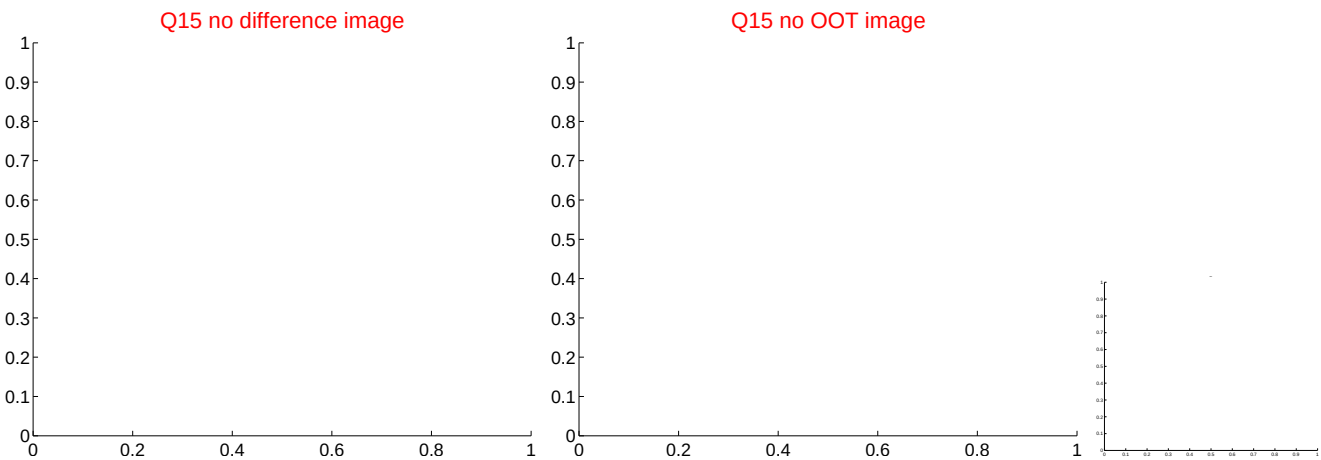


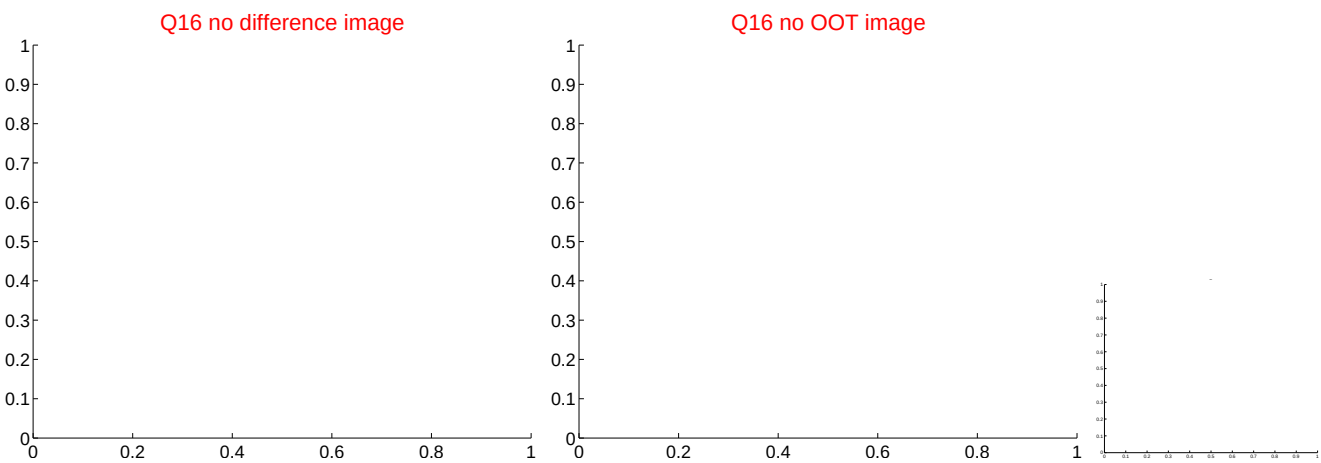


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

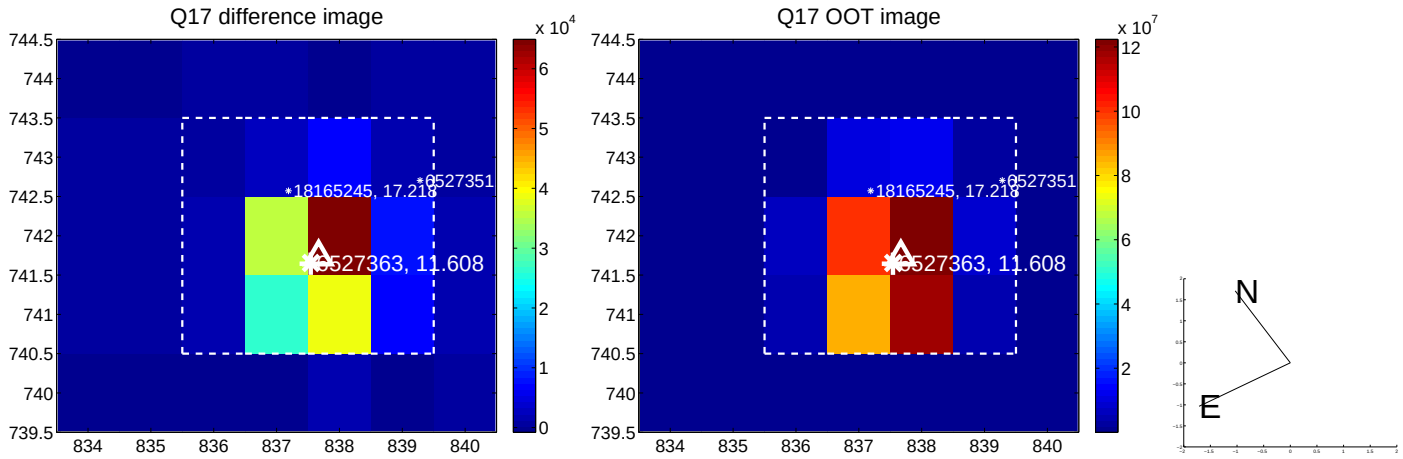


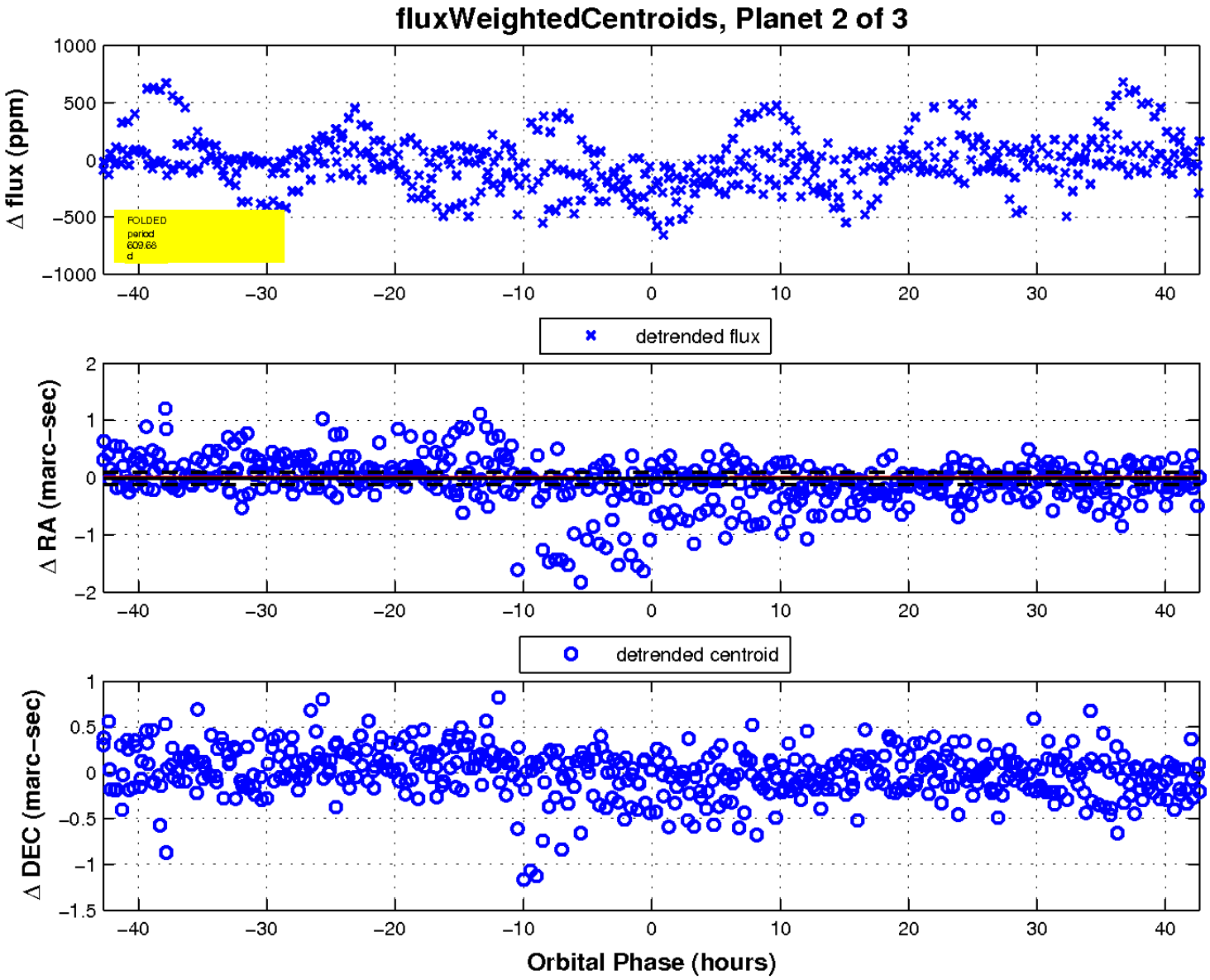




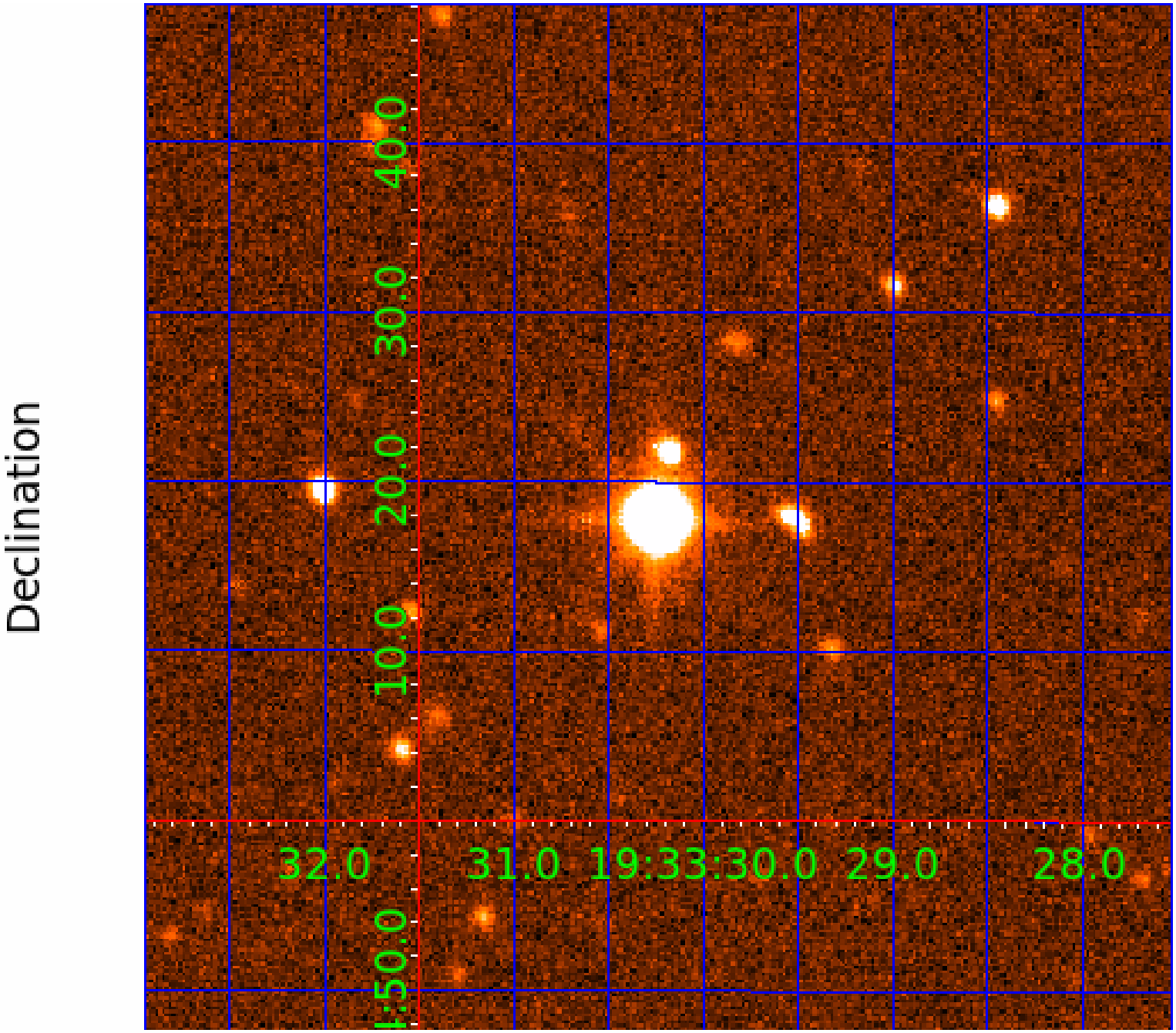


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image



KIC 006527363

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 ($S_\oplus$)
006527363-01	OBS	No	1.047418	131.639220	20.0	1.517	9.4	12.6	1.54	6749	0.74	8634.30
006527363-02	OBS	No	609.675534	344.600189	212.1	14.243	8.6	9.3	1.54	6749	2.61	1.78
006527363-03	OBS	No	0.523733	131.716018	4.1	0.720	8.0	2.5	1.54	6749	0.36	21755.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006527363-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—CENT_FEW_DIFFS
006527363-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—ALL_TRANS_CHASES—INCONSISTENT_TRANS
006527363-03	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD

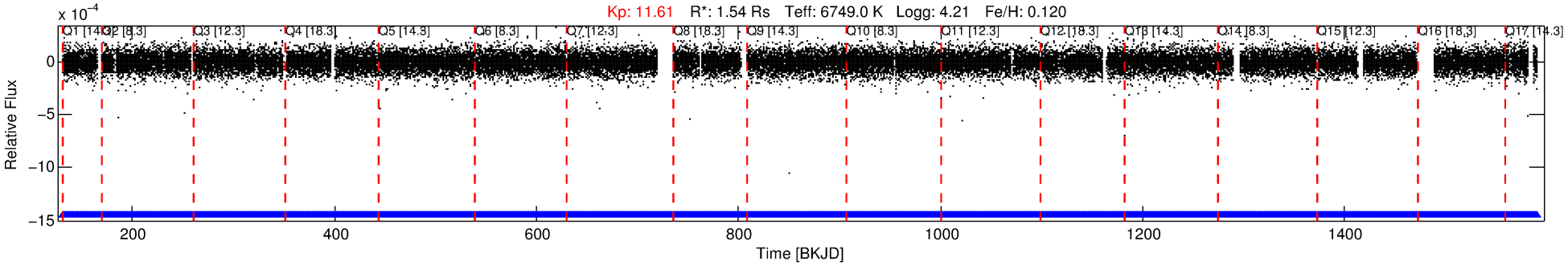
Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.
See `http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col` for comment definitions.

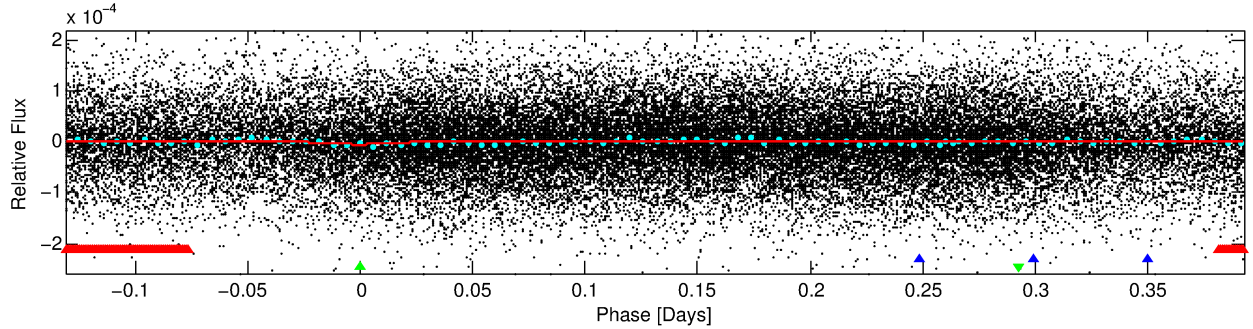
Ephemeris Match Information For 006527363-03

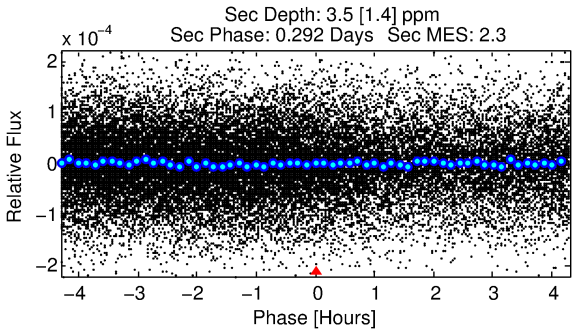
No Significant Match Found

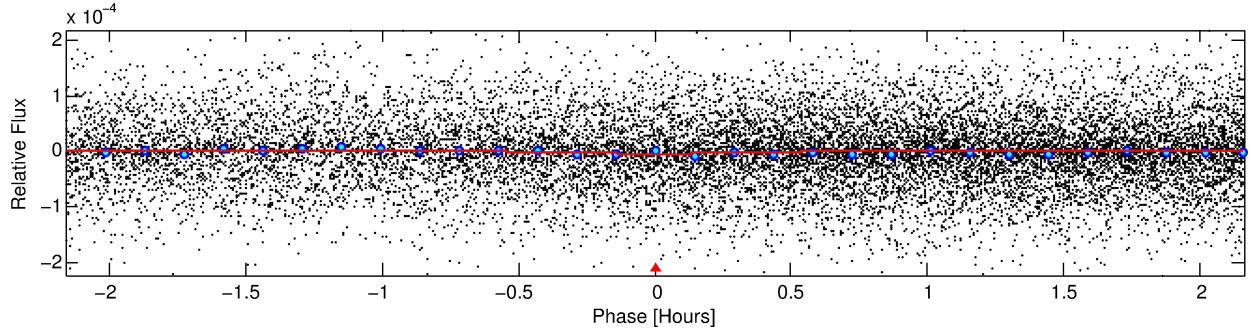
DV One-Page Summary

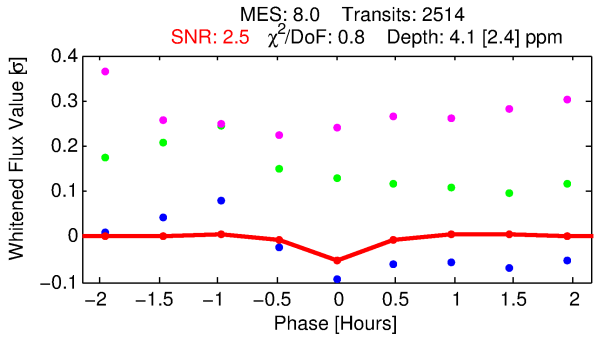
KIC: 6527363 Candidate: 3 of 3 Period: 0.524 d

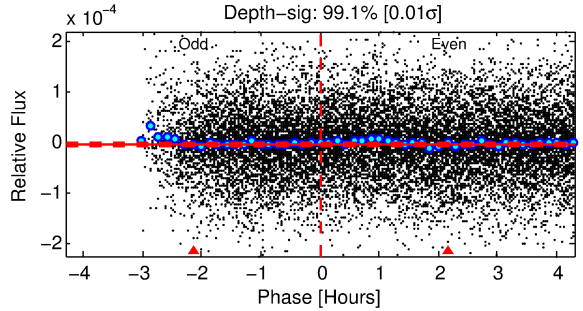


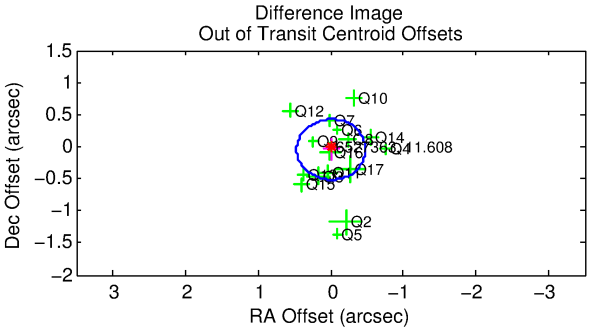












DV Fit Results:

Period = 0.52373 [0.00004] d
Epoch = 131.7160 [0.0052] BKJD
Rp/R* = 0.0022 [0.0009]
a/R* = 2.77 [4.16]
b = 0.88 [0.42]

Seff = 21755.77 [9043.19]
Teq = 3097 [322] K
Rp = 0.36 [0.19] Re
a = 0.0142 [0.0039] AU

Ag = 2.97 [2.95] [0.67σ]
Teffp = 6285 [1468] K [2.12σ]

DV Diagnostic Results:

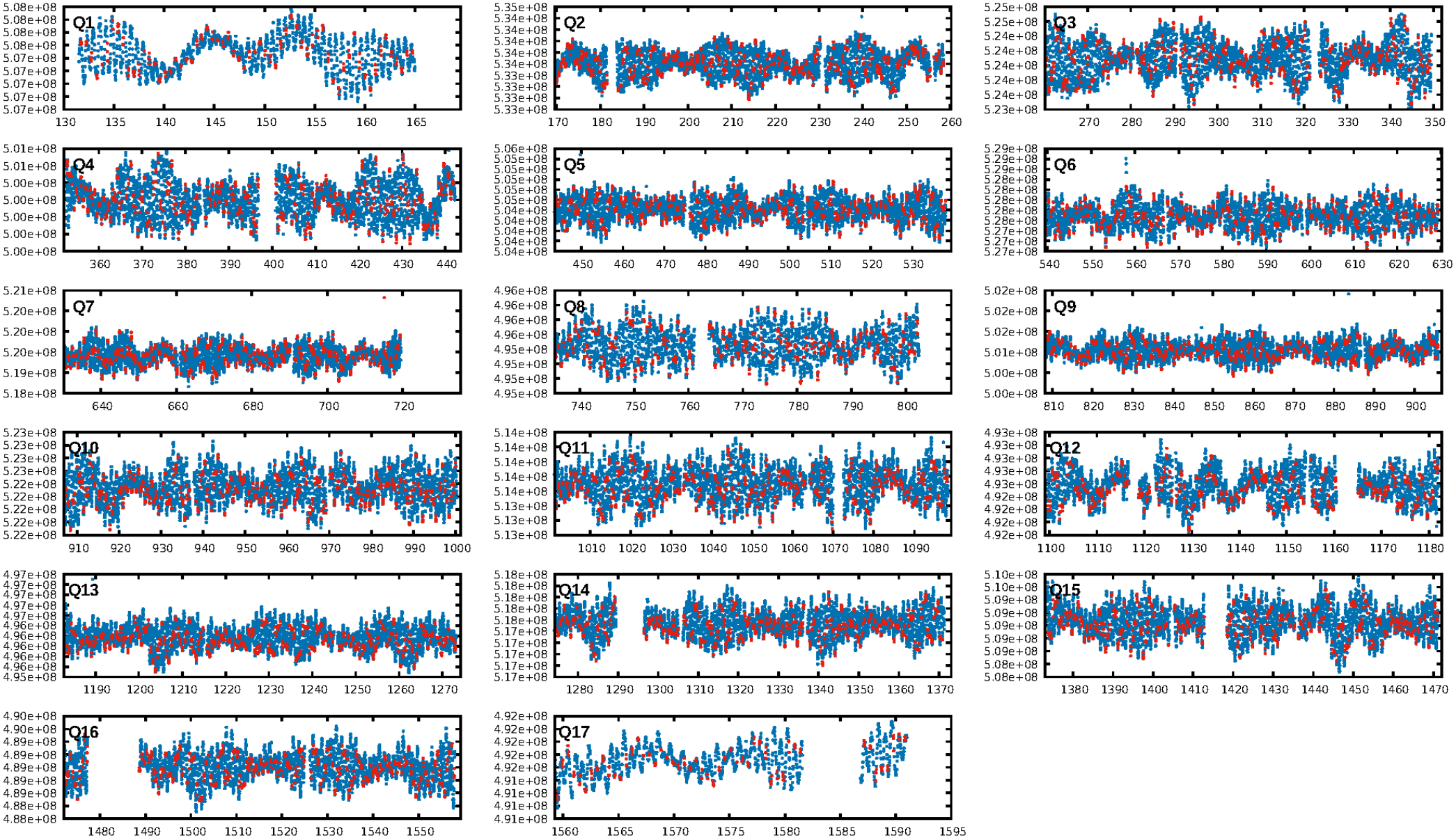
ShortPeriod−sig: N/A
LongPeriod−sig: 100.0% [7.49σ]
ModelChiSquare2−sig: N/A
ModelChiSquareGof−sig: N/A
Bootstrap−pfa: 6.55e−19
RollingBand−fgt: 1.00 [2413/2413]
GhostDiagnostic−chr: N/A

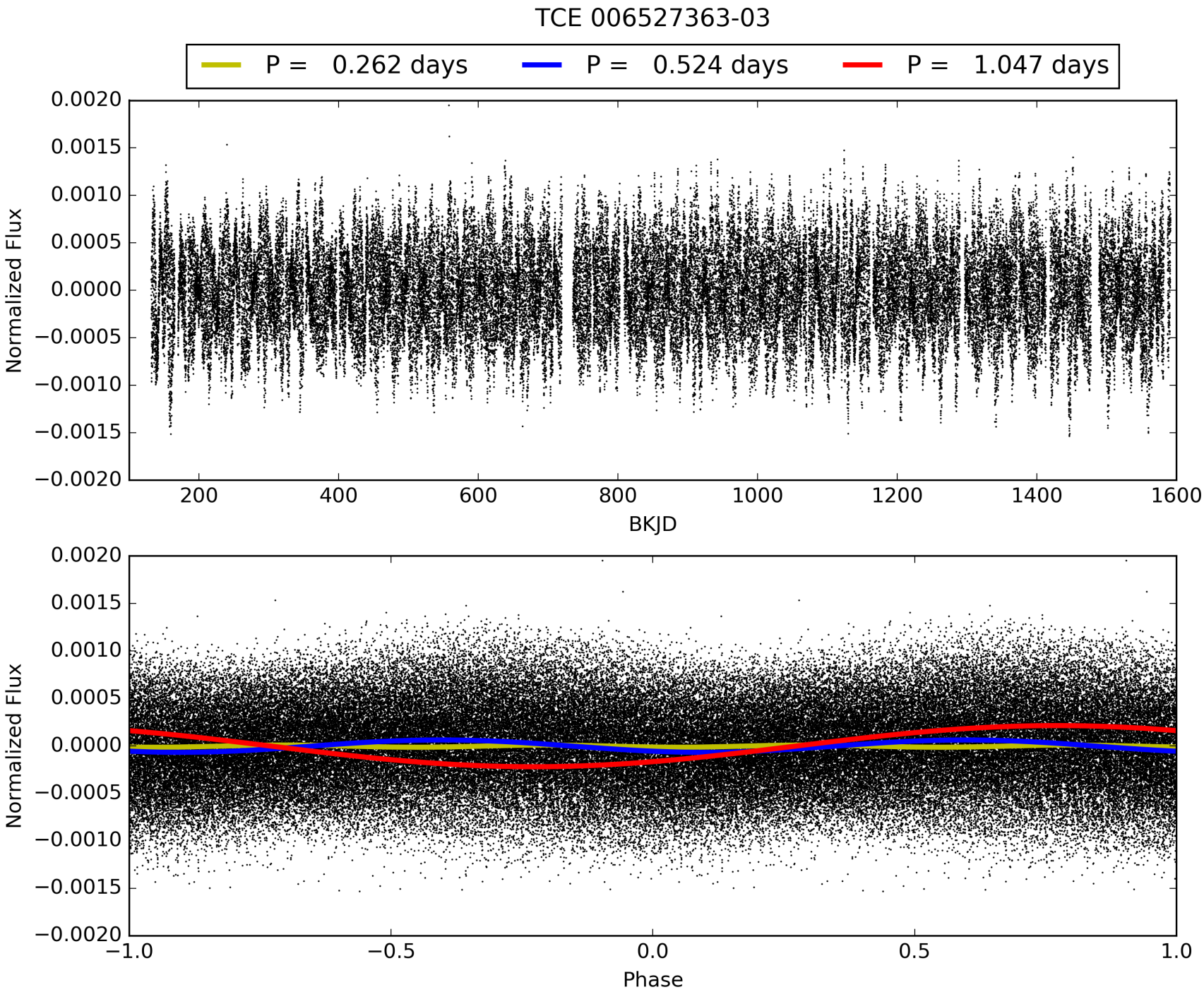
Centroid−sig: N/A
Centroid−so: N/A
OotOffset−rm: 0.046 arcsec [0.29σ]
KicOffset−rm: 0.087 arcsec [0.57σ]
OotOffset−st: 4/4/4/4 [16]
KicOffset−st: 4/4/4/4 [16]
DiffImageQuality−fgm: 1.00 [16/16]
DiffImageOverlap−fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03−Feb−2016 03:21:50 Z

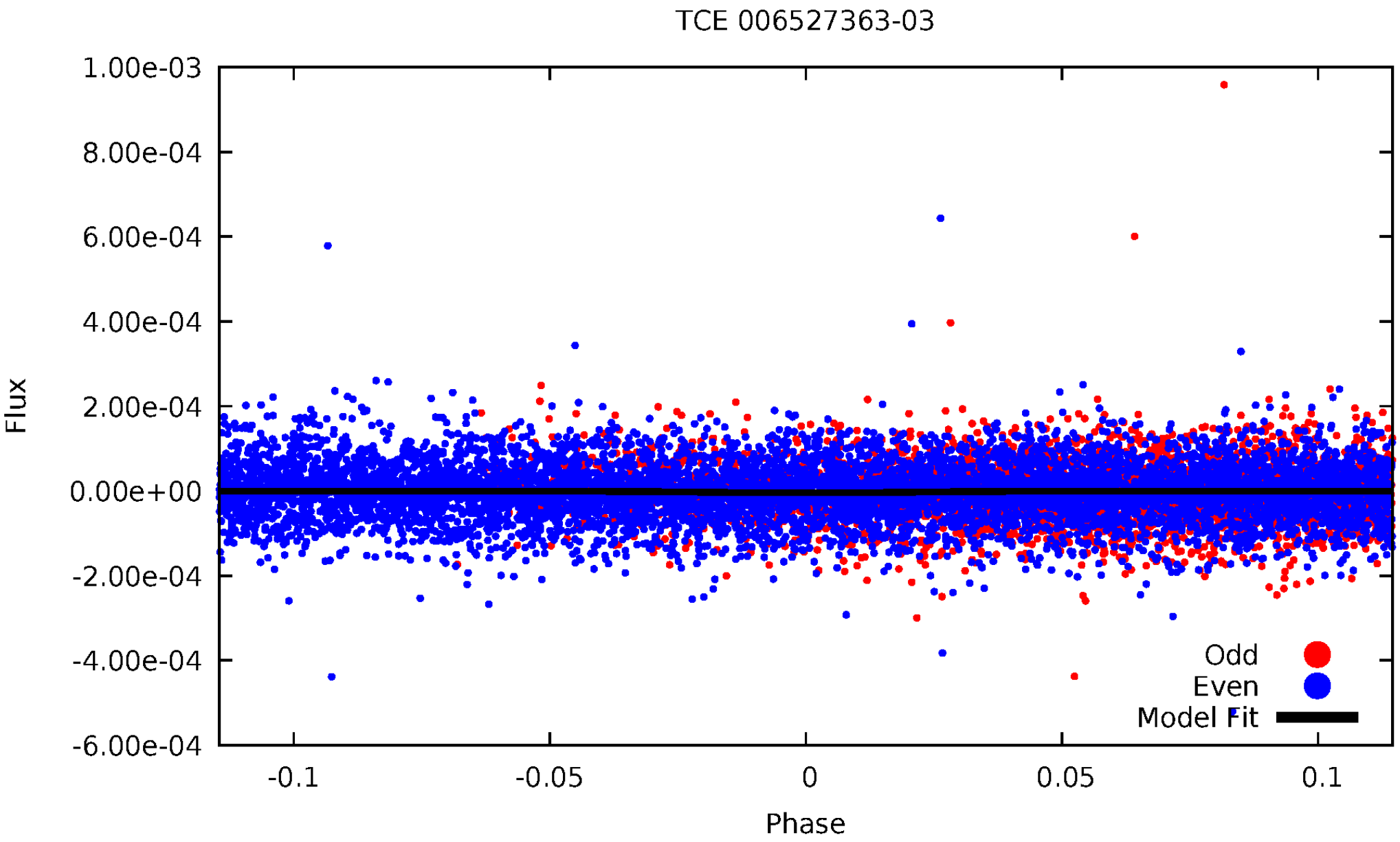
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006527363-03, PDC Light Curves

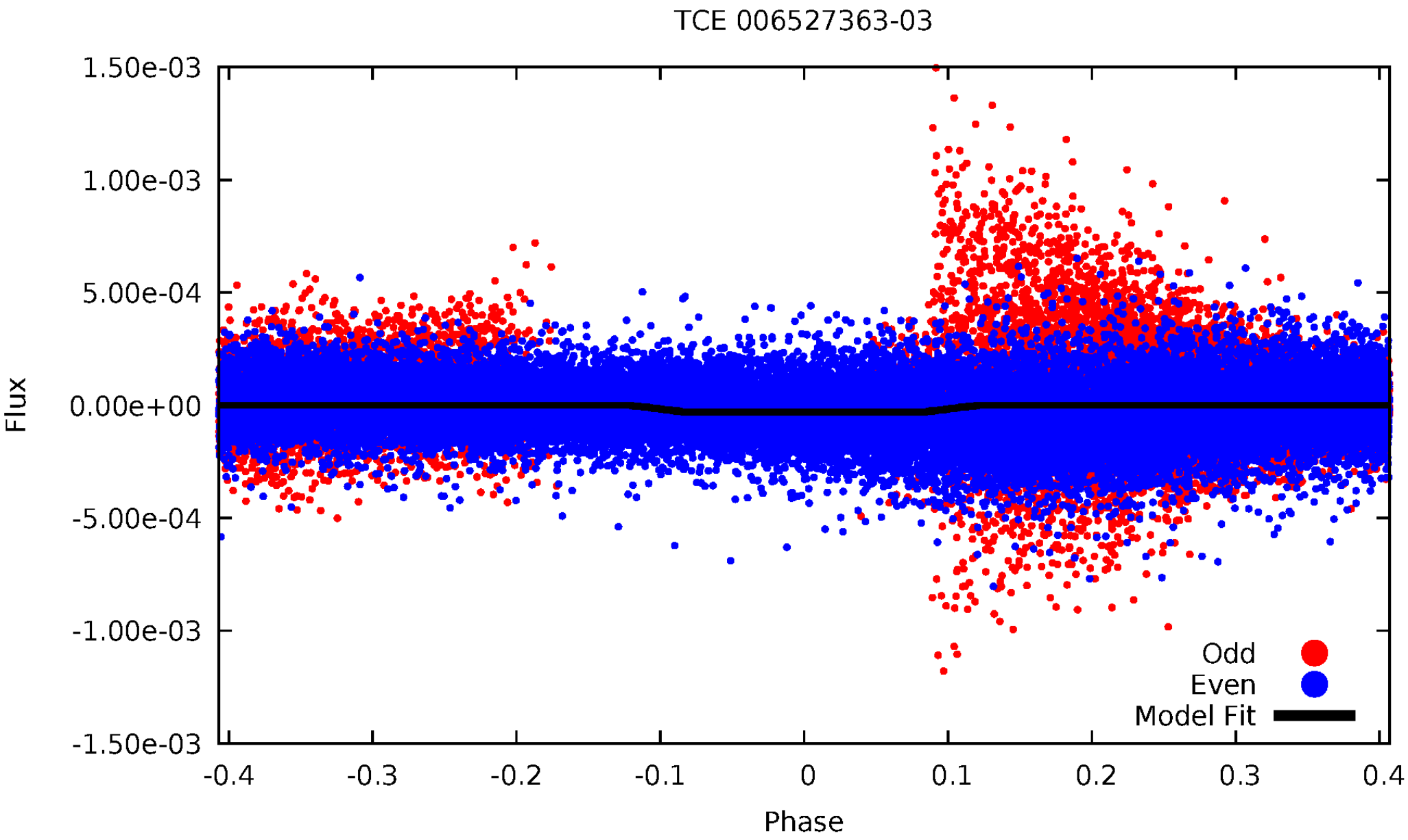



TCE 006527363-03
P = 0.262 days
P = 0.524 days
P = 1.047 days
Normalized Flux
BKJD
Normalized Flux
Phase

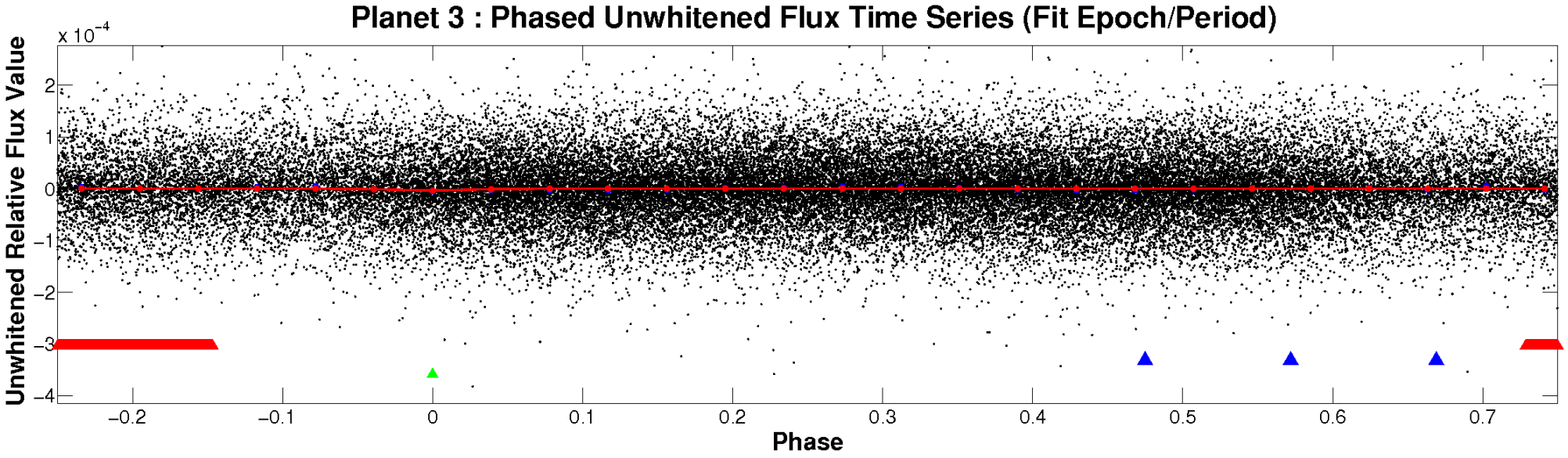
DV Odd/Even

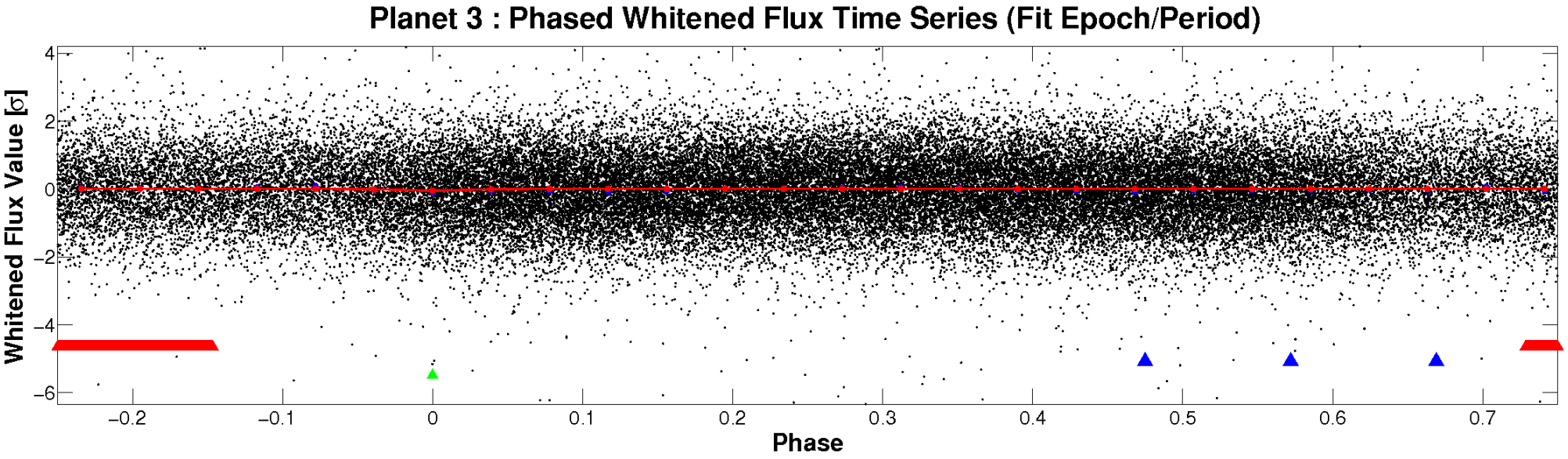

TCE 006527363-03
1.00e-03
8.00e-04
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
Flux
-0.1
-0.05
0
0.05
0.1
Phase
Odd
Even
Model Fit

ALT Odd/Even


TCE 006527363-03
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
Flux
-0.4
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
0.4
Phase
Odd
Even
Model Fit

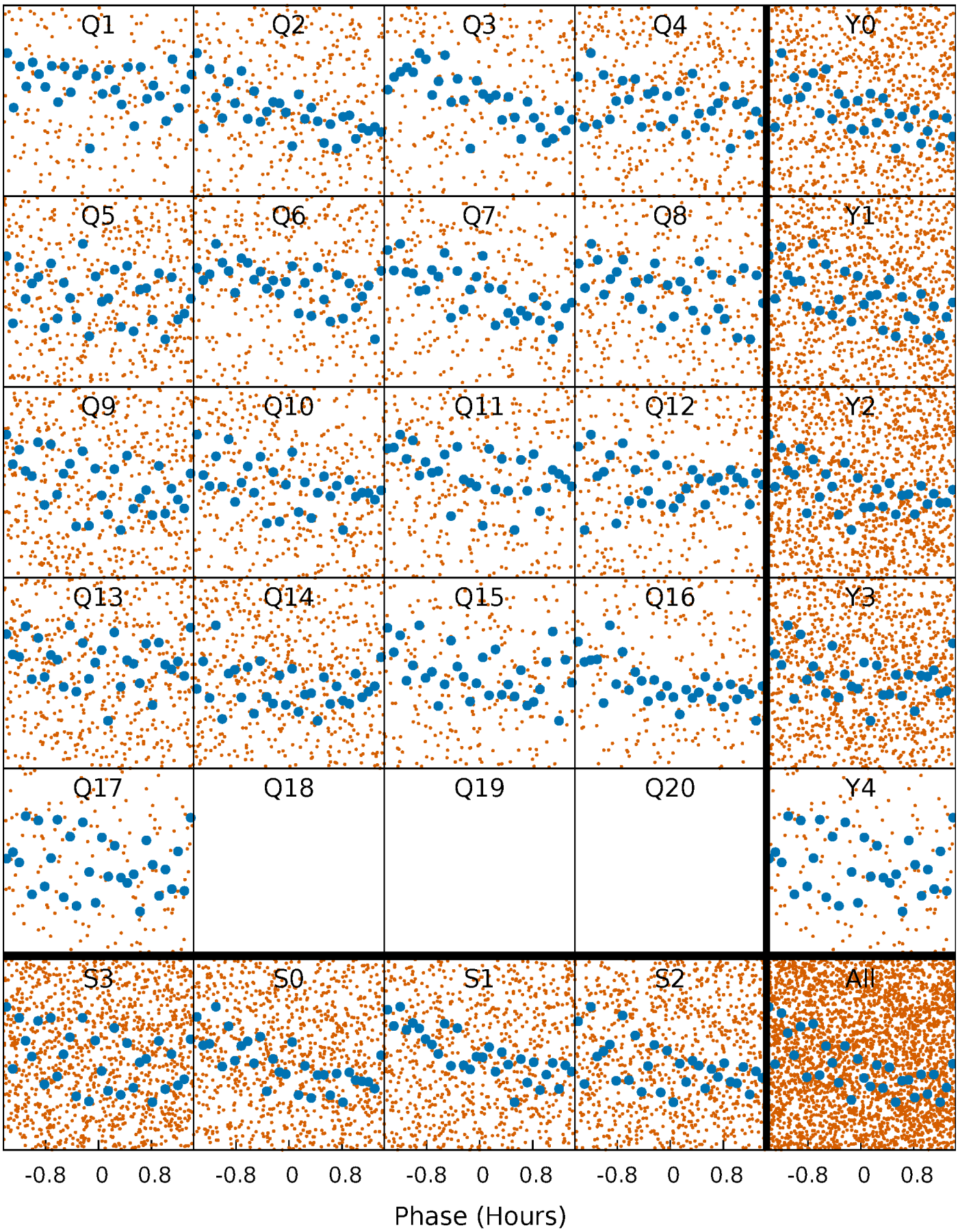
Non-Whitened Vs. Whitened Light Curve





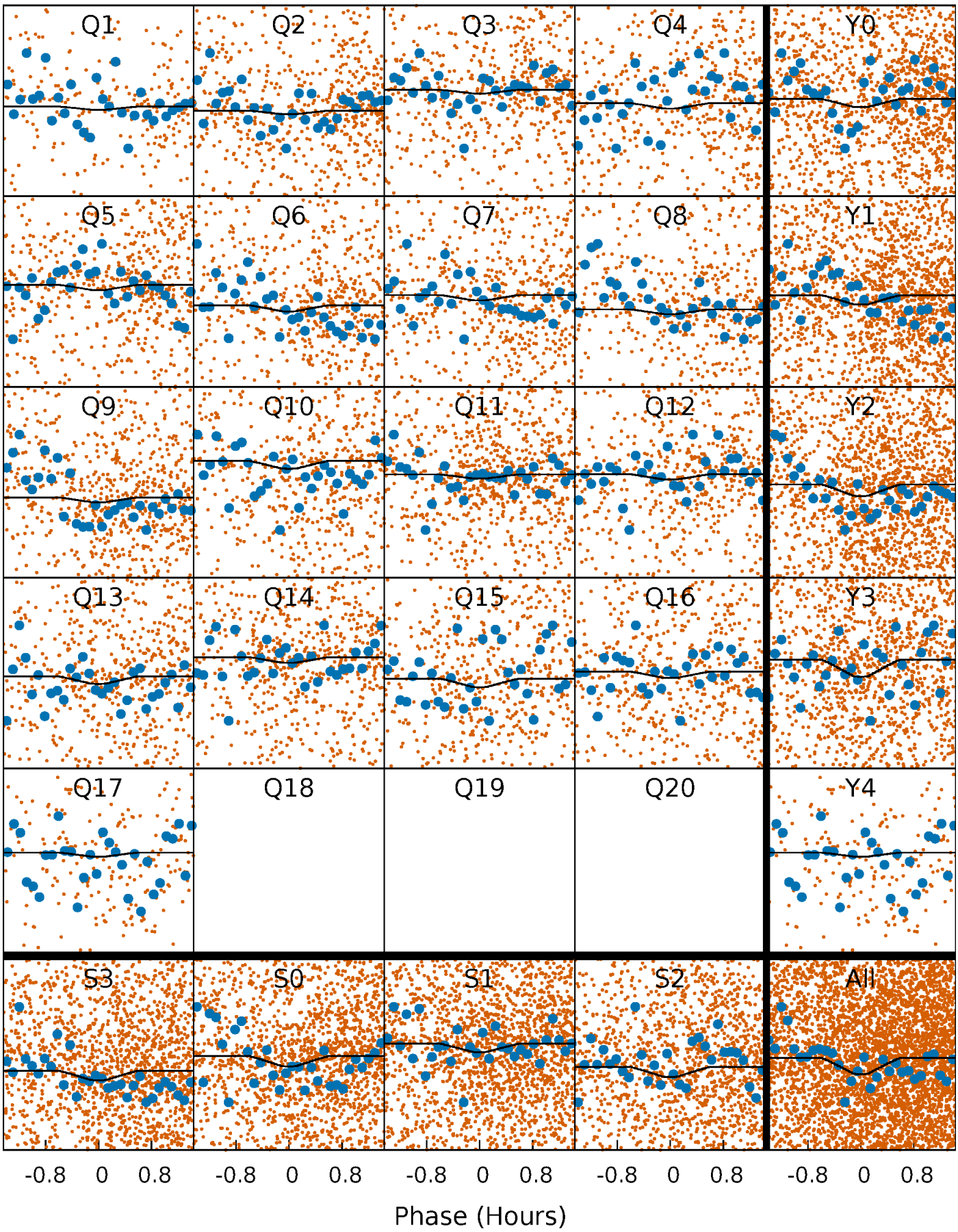
PDC Quarter-Phased Transit Curves

TCE 006527363-03 P= 0.523733 Days T_0=131.716018 (BKJD)



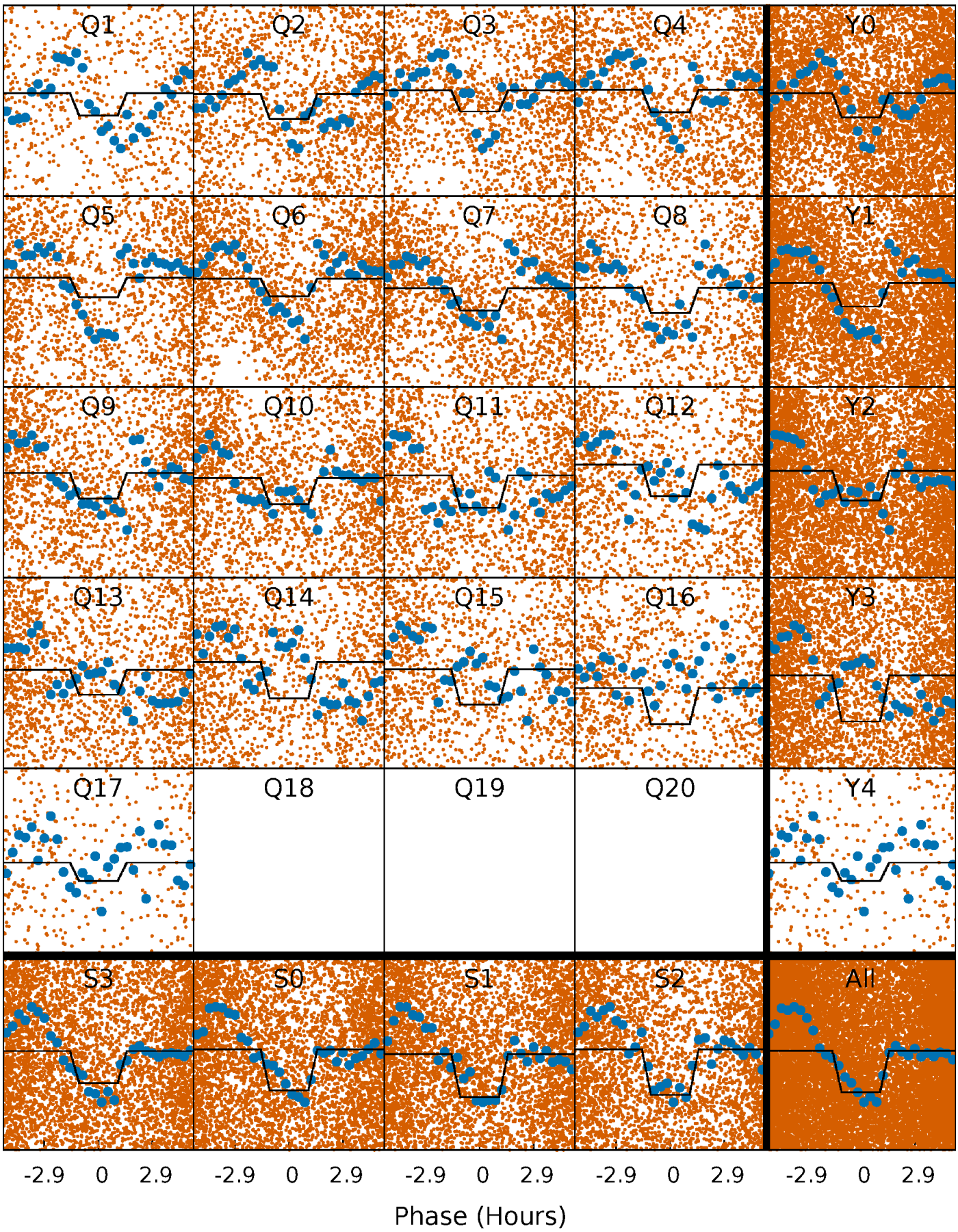
DV Quarter-Phased Transit Curves

TCE 006527363-03 P= 0.523733 Days T_0=131.716018 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

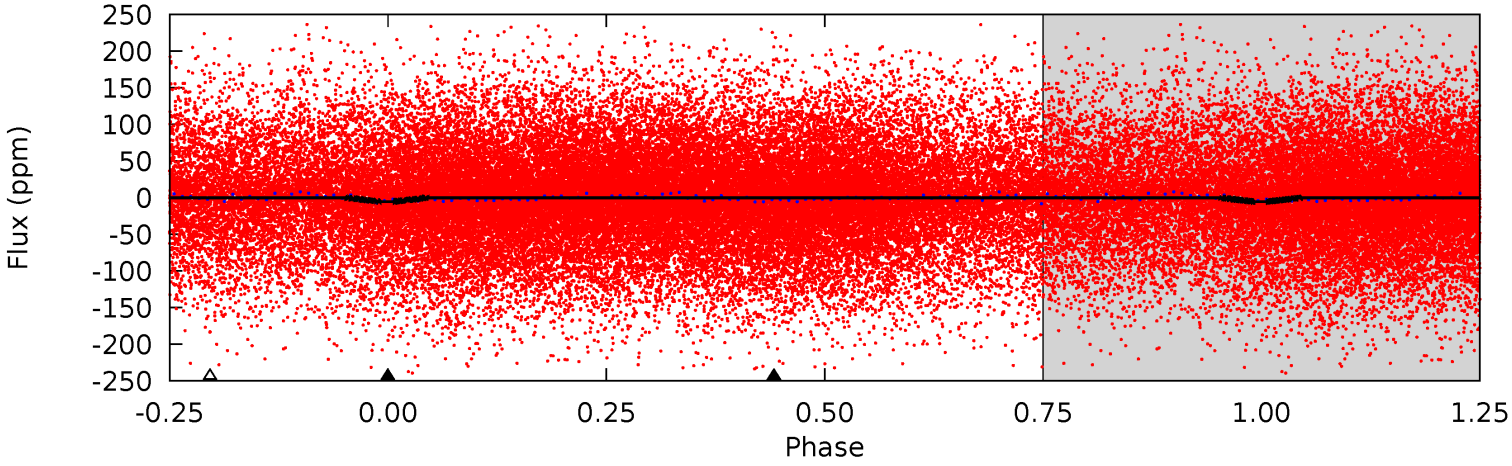
TCE 006527363-03 P= 0.523672 Days T_0=131.725246 (BKJD)

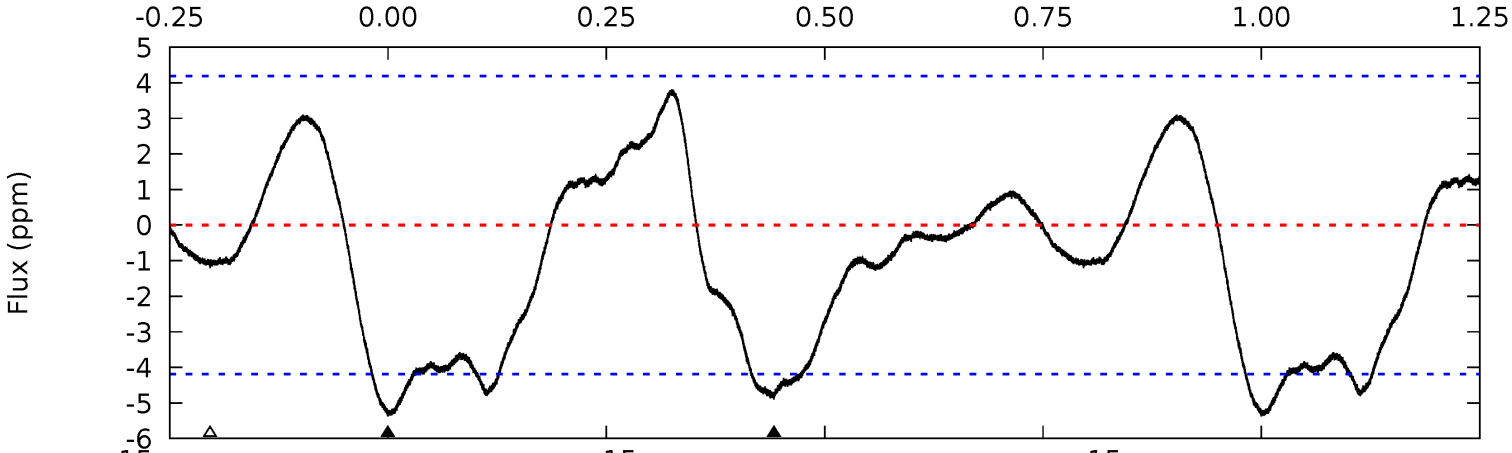


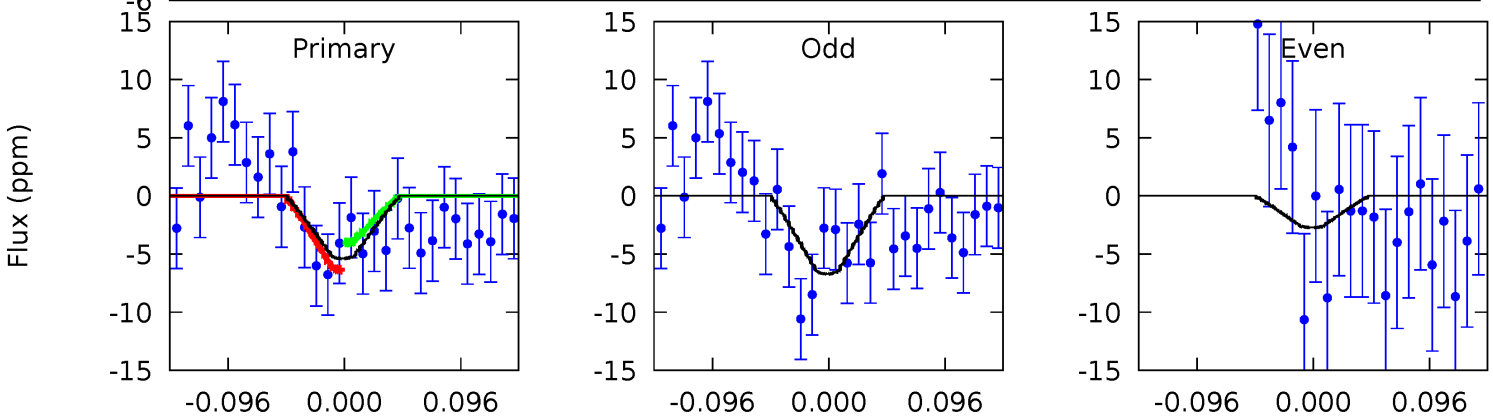
DV Model-Shift Uniqueness Test

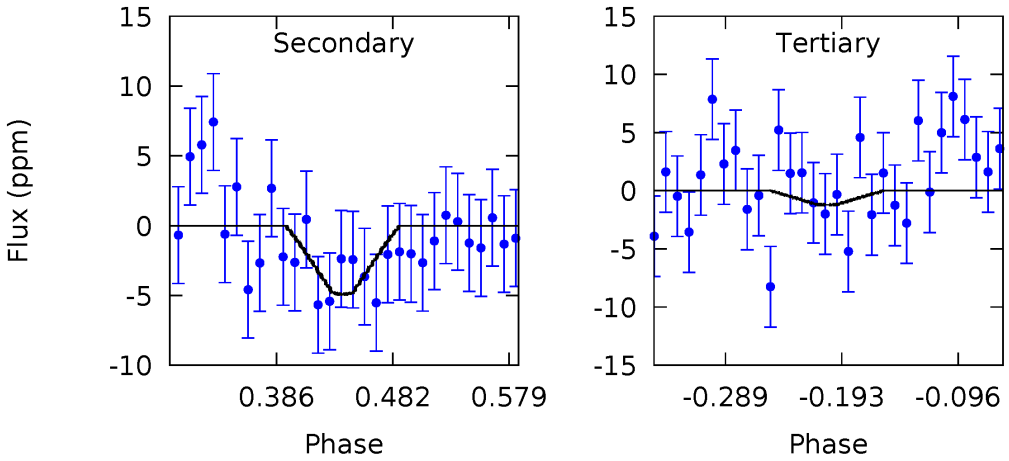
006527363-03, P = 0.523733 Days, E = 131.192285 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.86	5.36	1.32	0	4.57	1.66	2.24	4.55	5.86	4.04	5.36	2.09	1.04	0.41	1.26





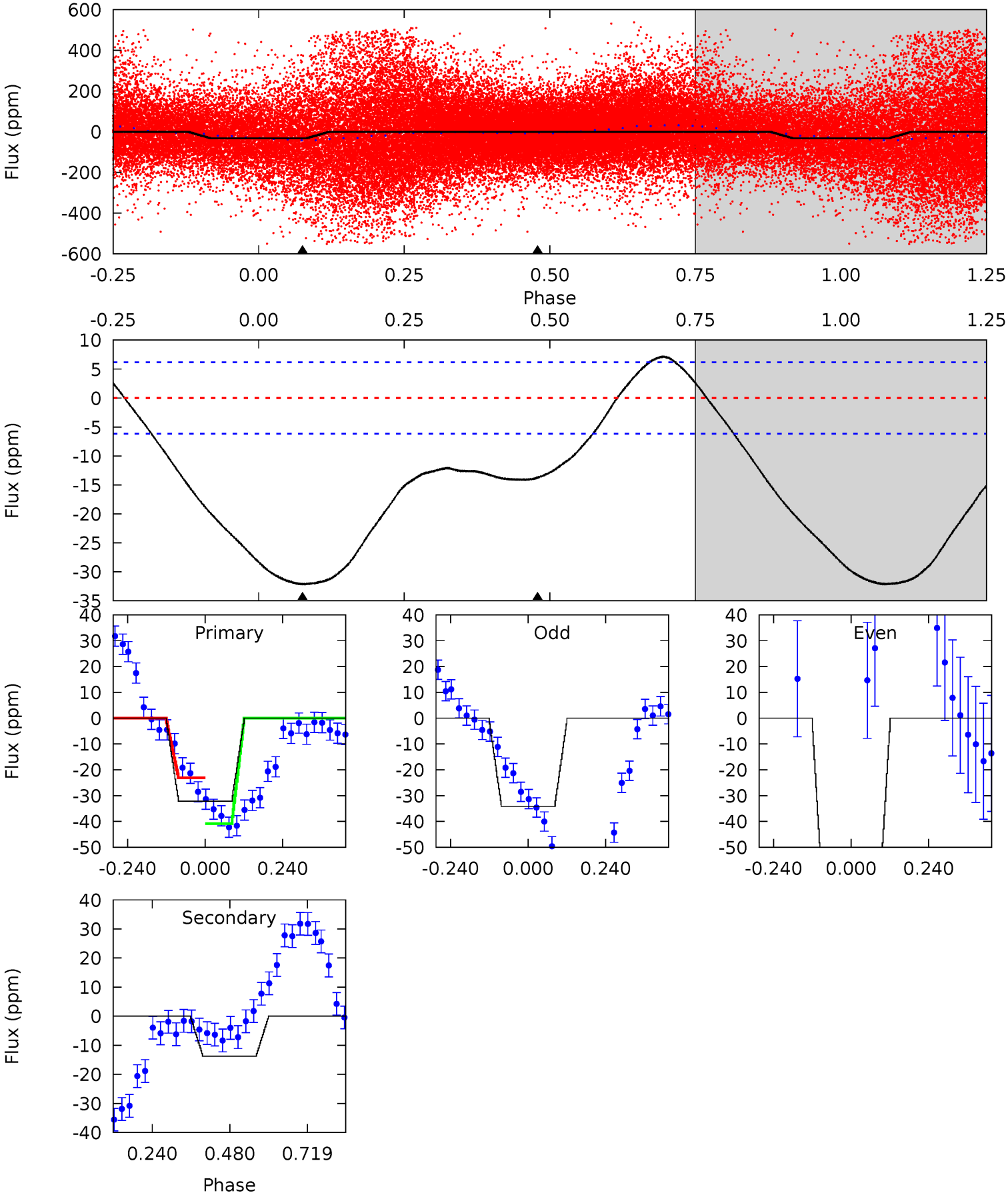




Alt Model-Shift Uniqueness Test

006527363-03, P = 0.523672 Days, E = 131.201574 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.8	9.73	0	0	4.38	1.18	3.29	22.8	22.8	9.73	9.73	5.41	0.86	0.18	4.97



Stellar Parameters For KIC 006527363

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6749^{+189}_{-283}	$4.210^{+0.108}_{-0.201}$	$0.120^{+0.200}_{-0.350}$	$1.541^{+0.514}_{-0.277}$	$1.405^{+0.196}_{-0.218}$	$0.541^{+0.290}_{-0.282}$
	+3%/-4%	+3%/-5%	+167%/-292%	+33%/-18%	+14%/-16%	+54%/-52%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 006527363-03 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-5±1	$0.38^{+0.16}_{-0.16}$	4383^{+343}_{-278}	6544^{+2572}_{-1091}	$3.823^{+7.144}_{-1.975}$
Alt.	-14±1	$0.95^{+0.22}_{-0.18}$	4360^{+368}_{-272}	5270^{+555}_{-461}	$1.706^{+0.835}_{-0.573}$

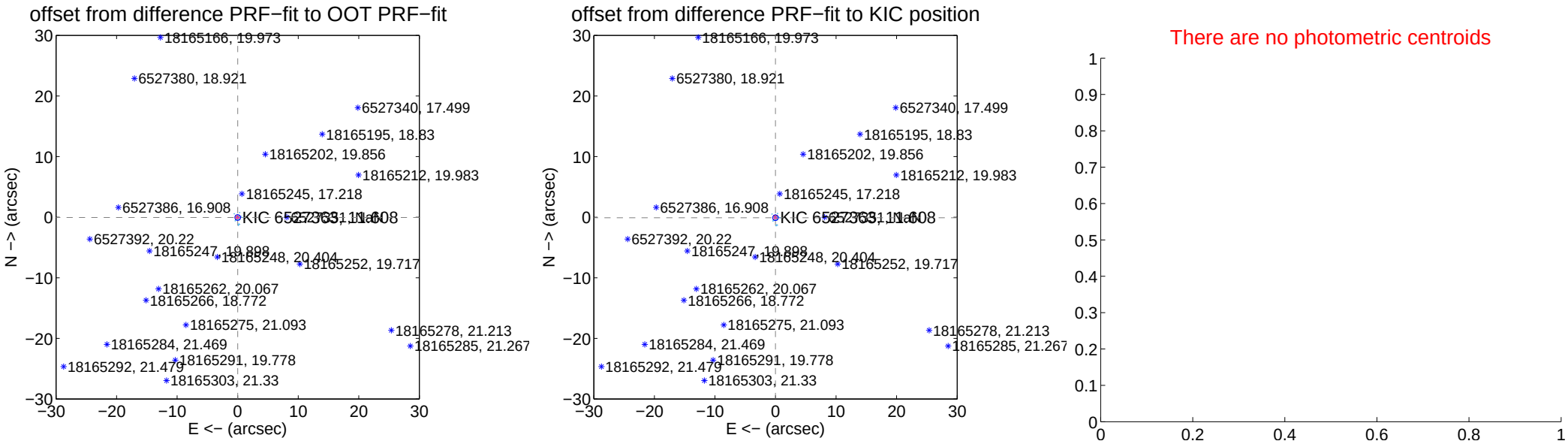
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

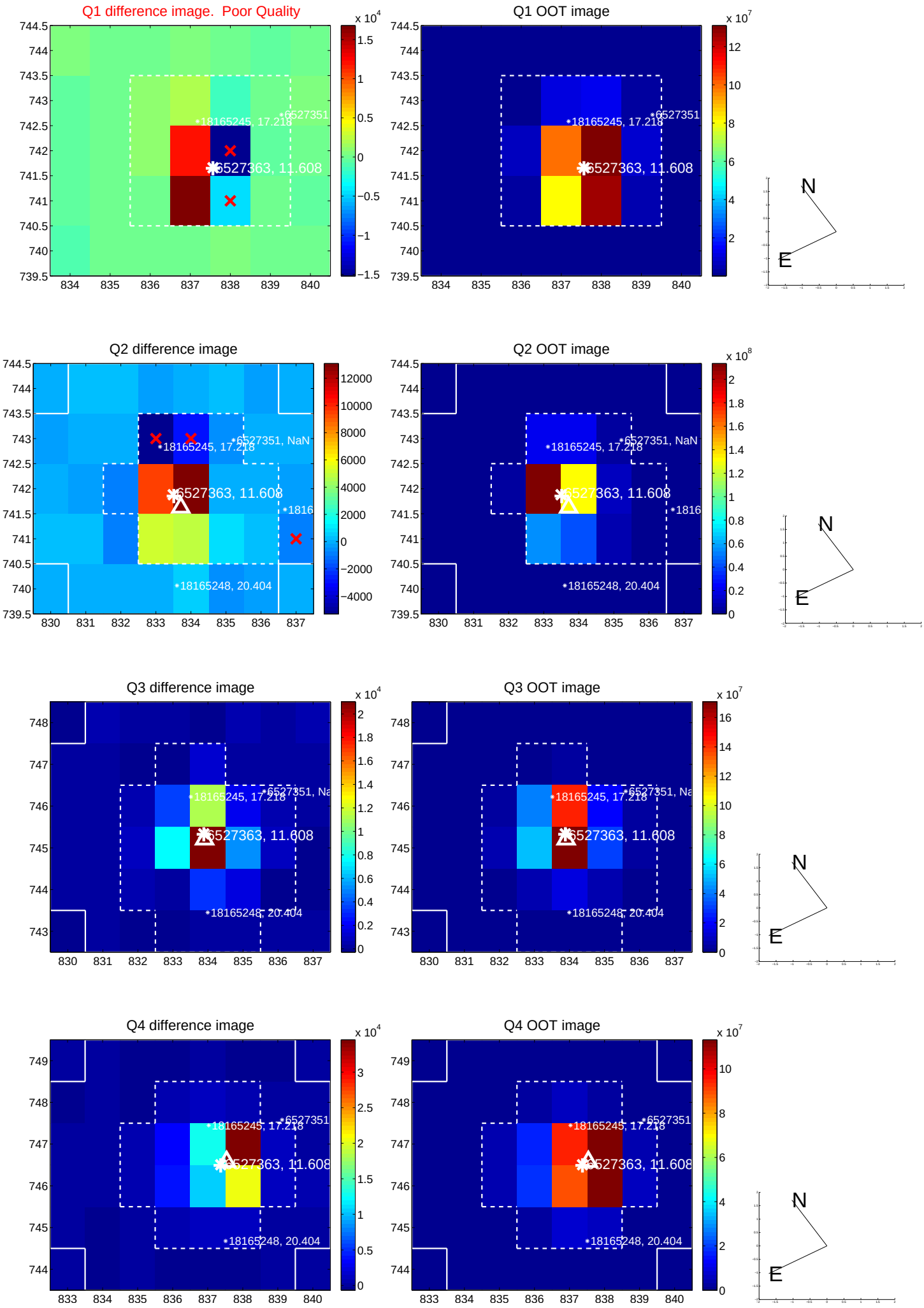
Supplemental centroid analysis for 006527363-03. Kepler magnitude: 11.61. Transit SNR 2.46
There are 16 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.04 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.046 ± 0.157	0.29	-0.005 ± 0.106	-0.045 ± 0.159
PRF-fit source offset from KIC position	0.087 ± 0.153	0.57	0.008 ± 0.105	-0.087 ± 0.154
photometric centroid source offset	—	—	—	—

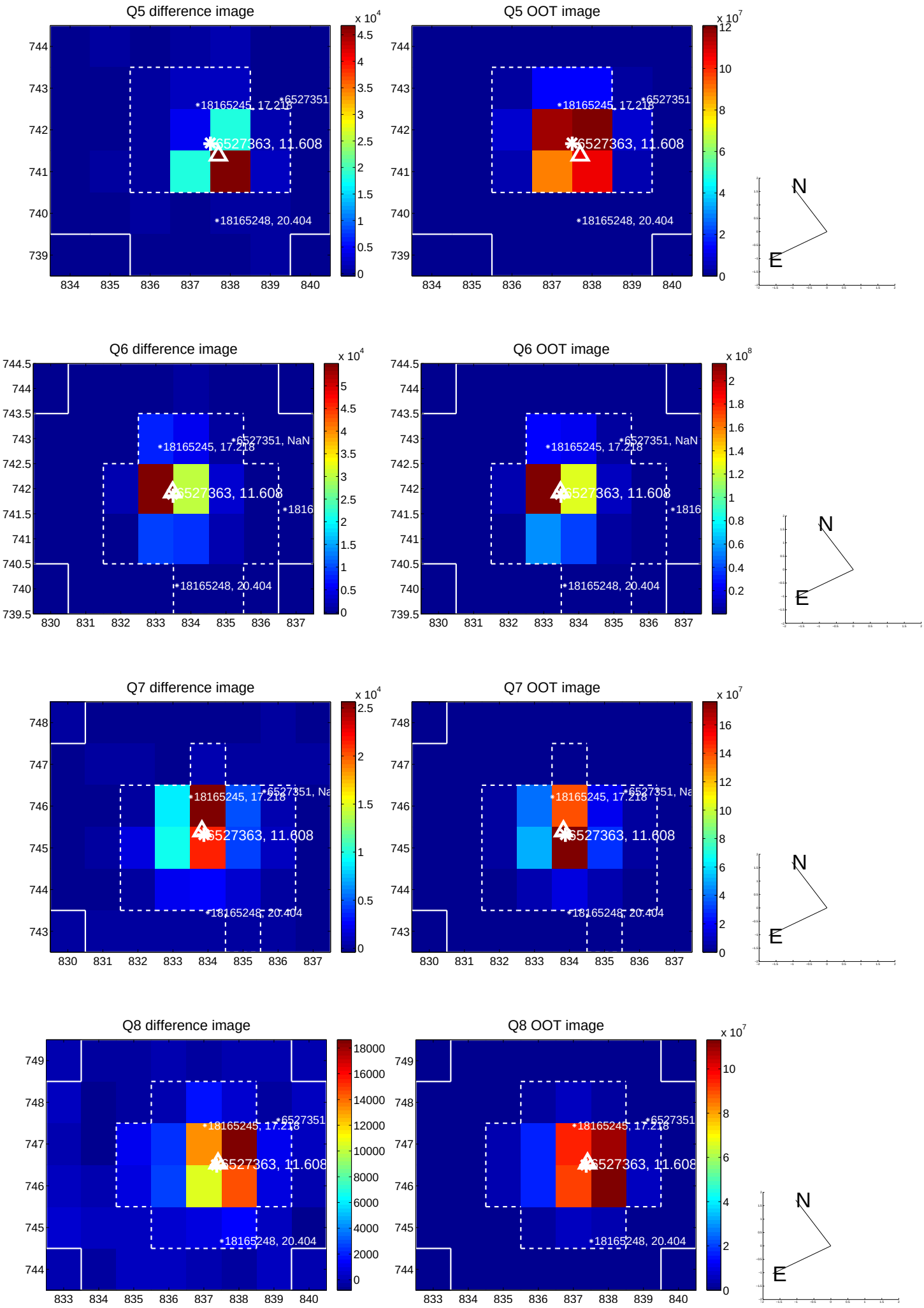


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

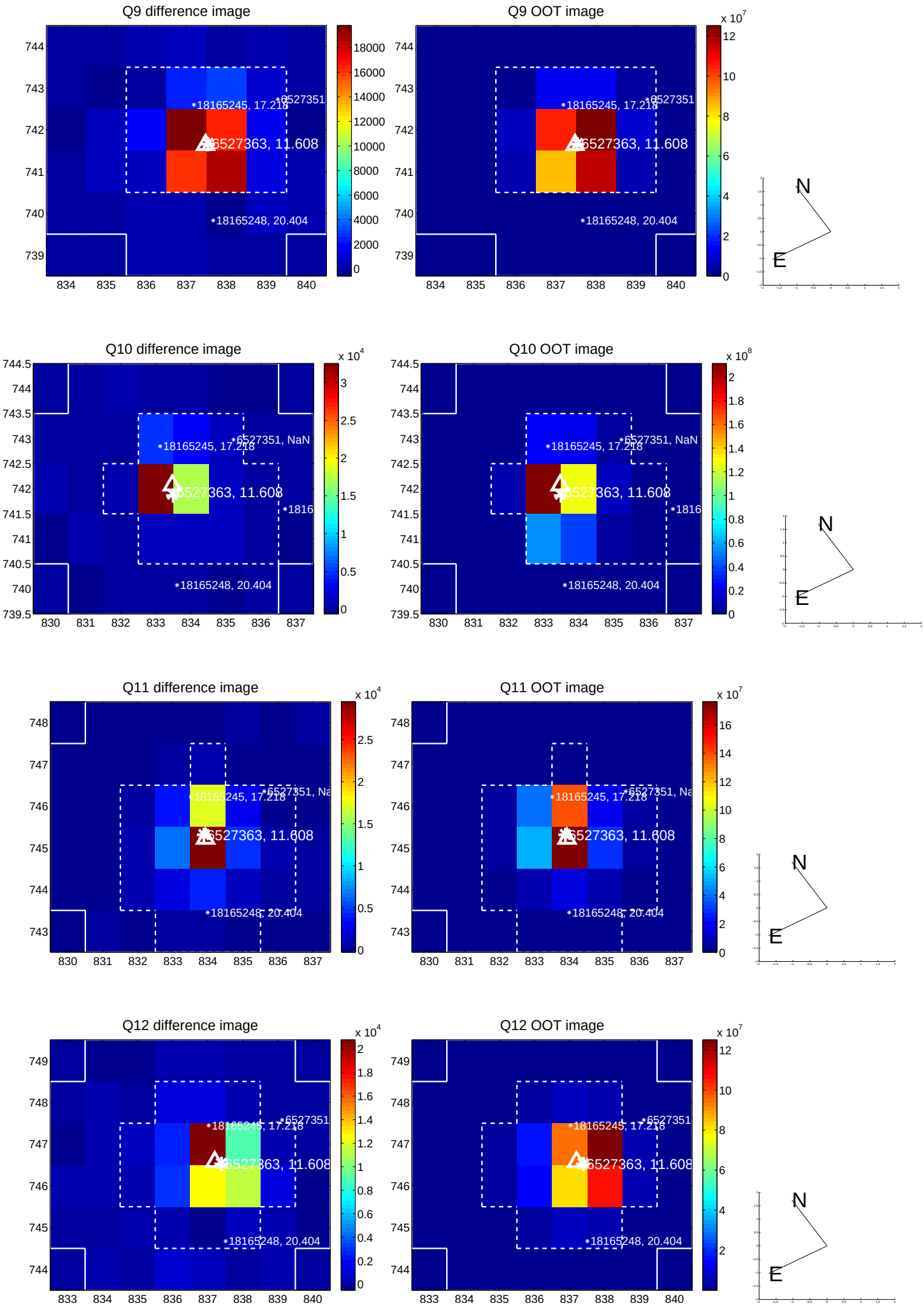
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



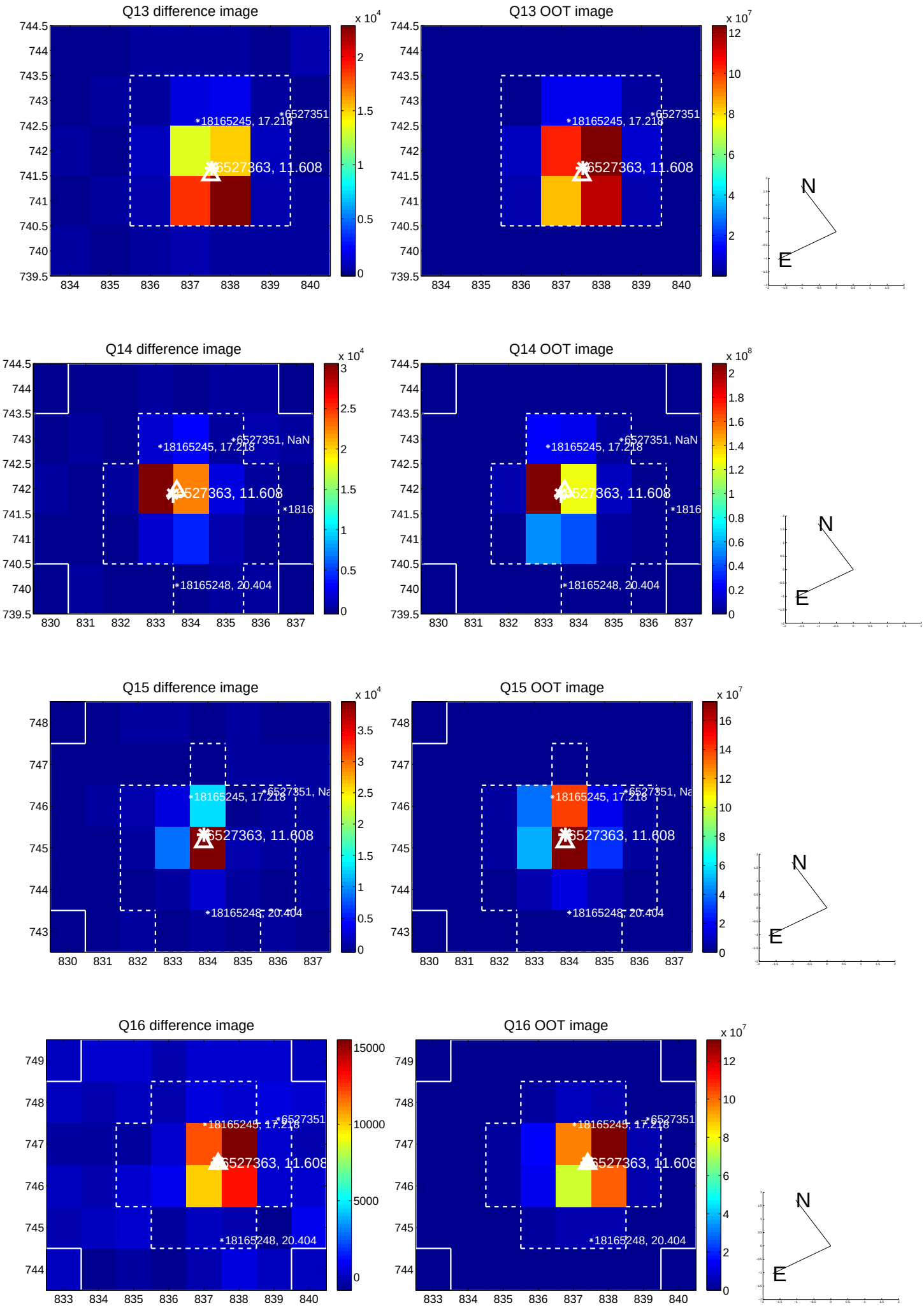
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



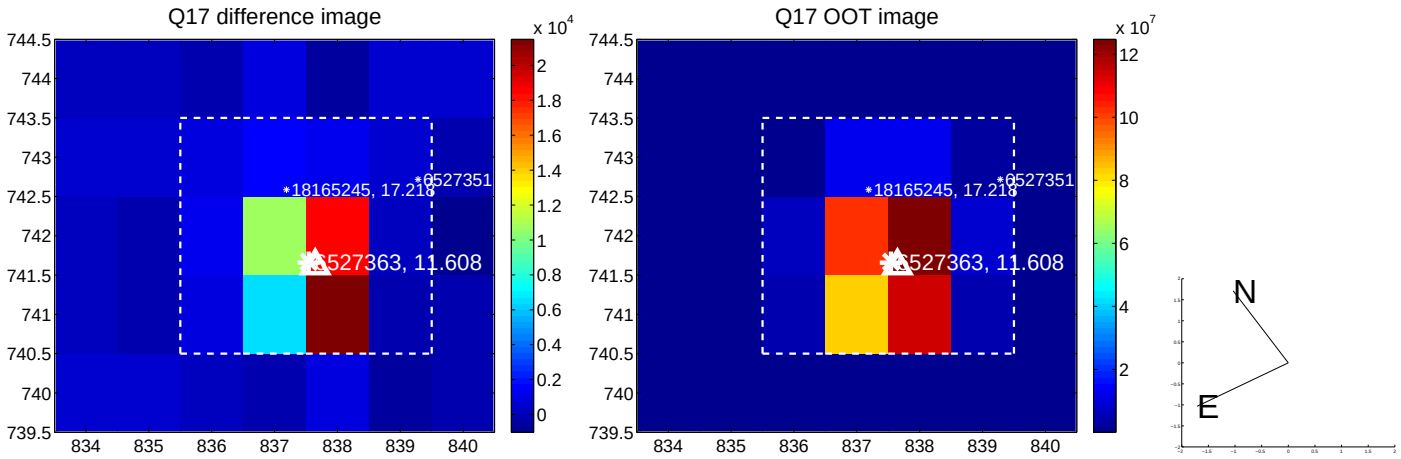
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

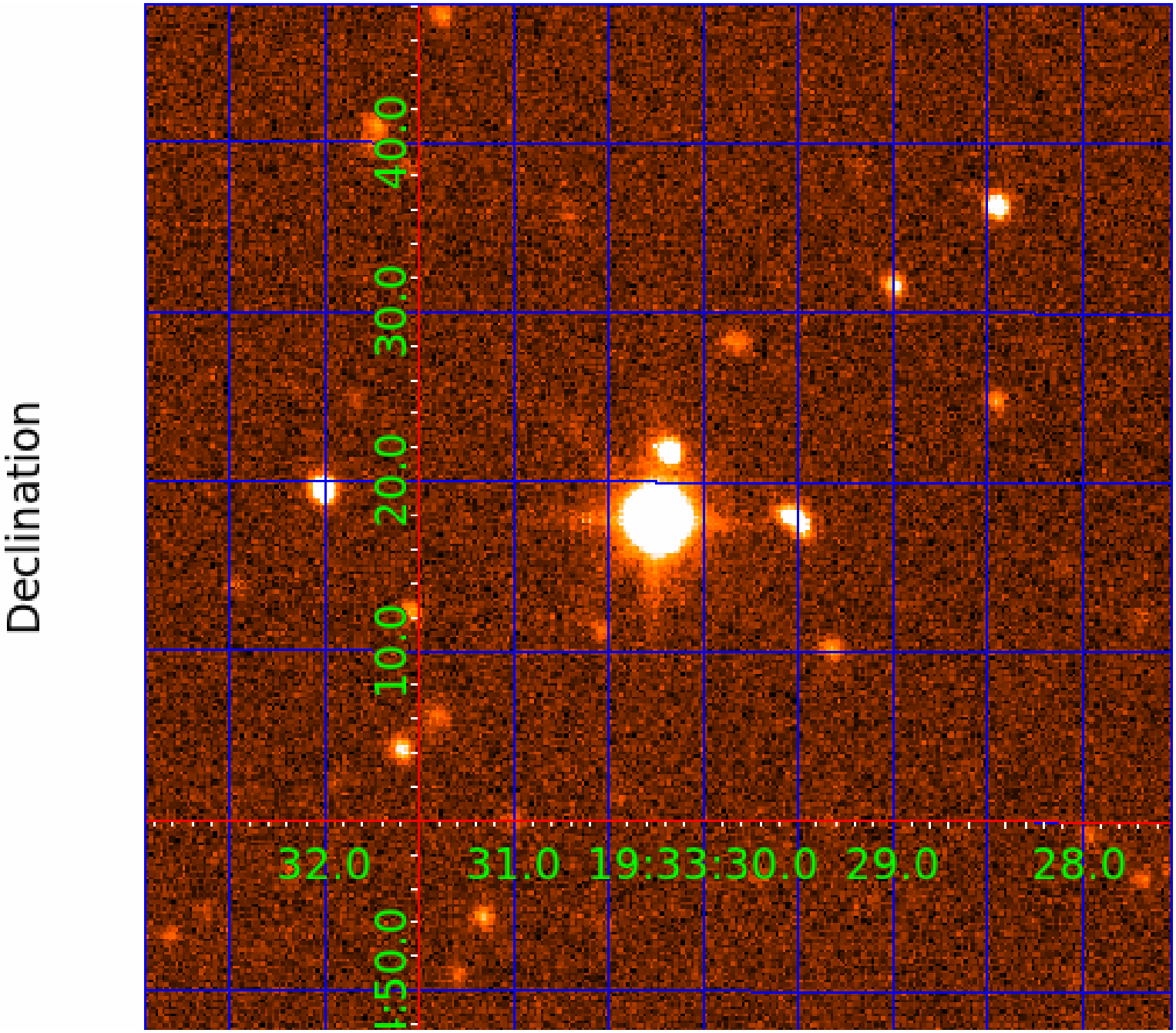


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image