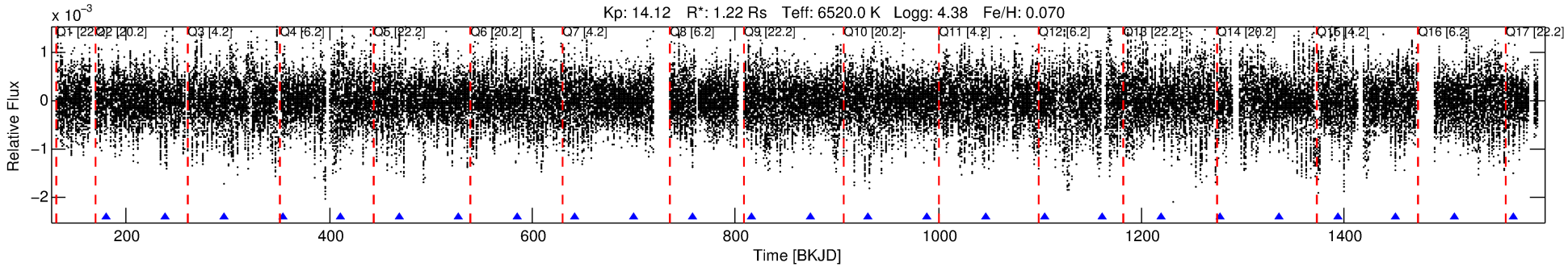
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

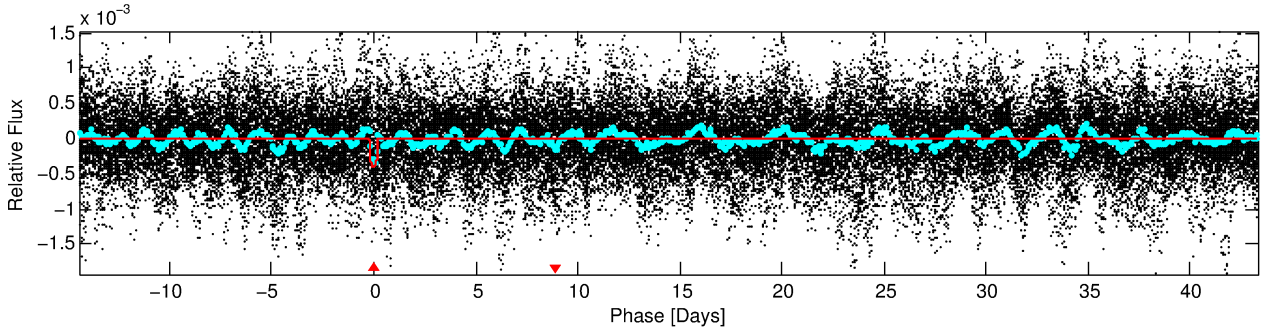
DV One-Page Summary

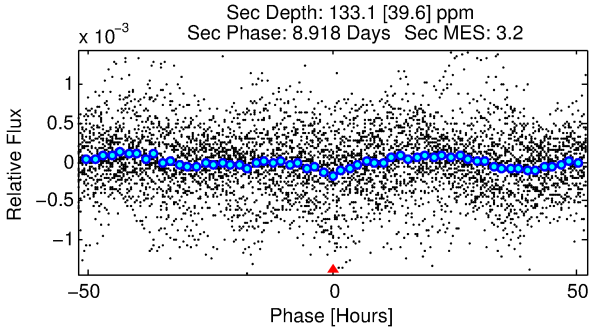
KIC: 11719994 Candidate: 1 of 1 Period: 57.734 d

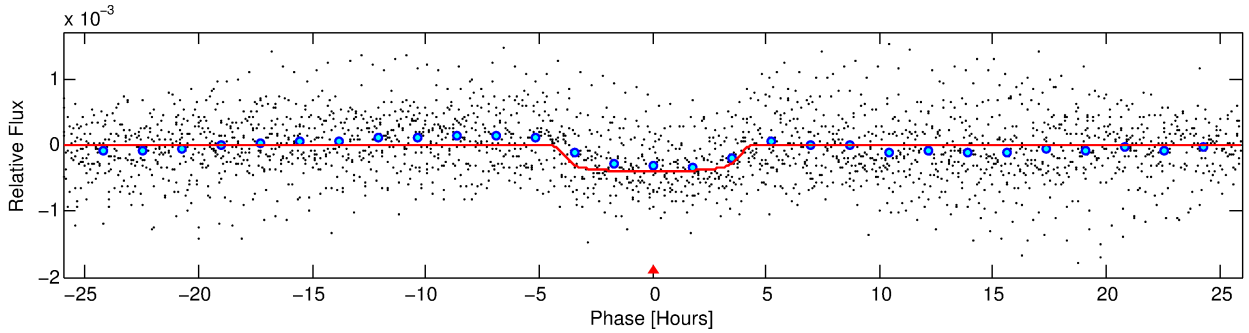
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

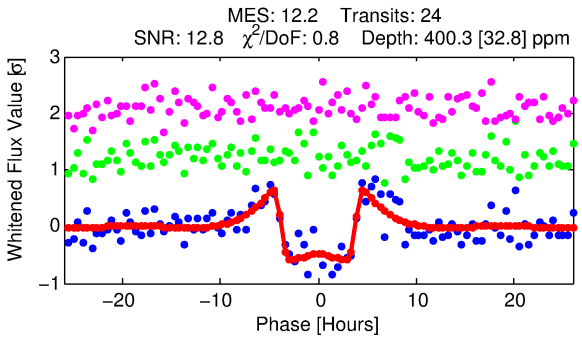
Kp: 14.12 R*: 1.22 Rs Teff: 6520.0 K Logg: 4.38 Fe/H: 0.070

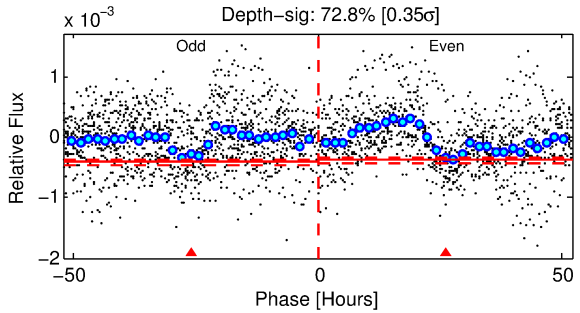


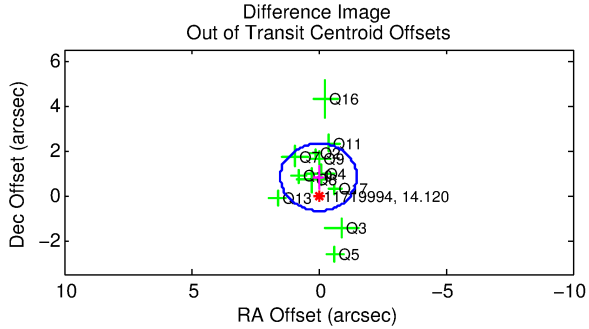












DV Fit Results:

Period = 57.73418 [0.00046] d
Epoch = 180.7133 [0.0065] BKJD
Rp/R* = 0.0215 [0.0014]
a/R* = 24.41 [5.61]
b = 0.90 [0.05]

Seff = 23.75 [8.77]
Teq = 563 [52] K
Rp = 2.85 [0.83] Re
a = 0.3172 [0.0758] AU

Ag = 907.57 [429.87] [2.11σ]
Teffp = 4777 [416] K [10.04σ]

DV Diagnostic Results:

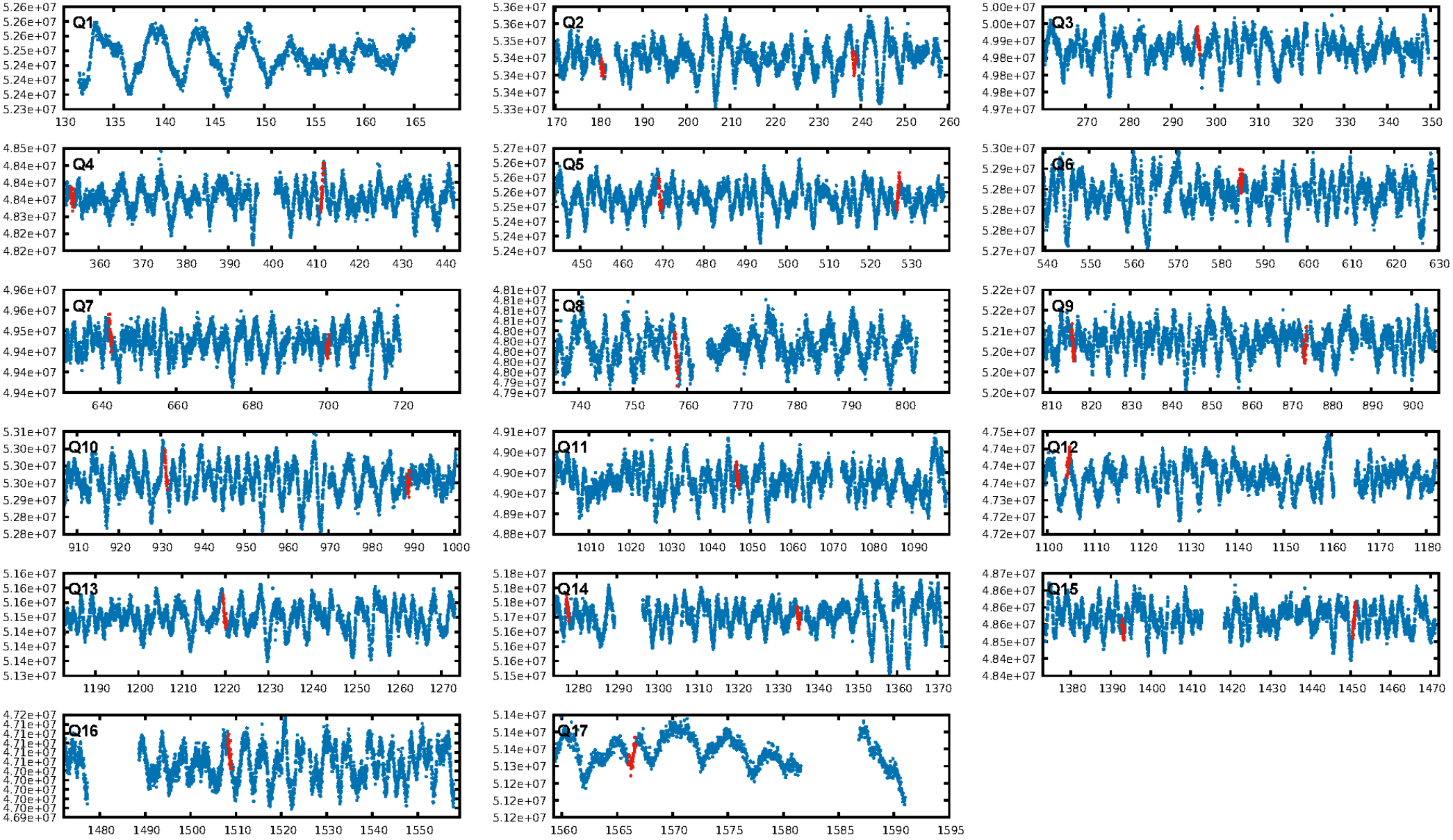
ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 98.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.55e-34
RollingBand-fgt: 1.00 [23/23]
GhostDiagnostic-chr: 2.29

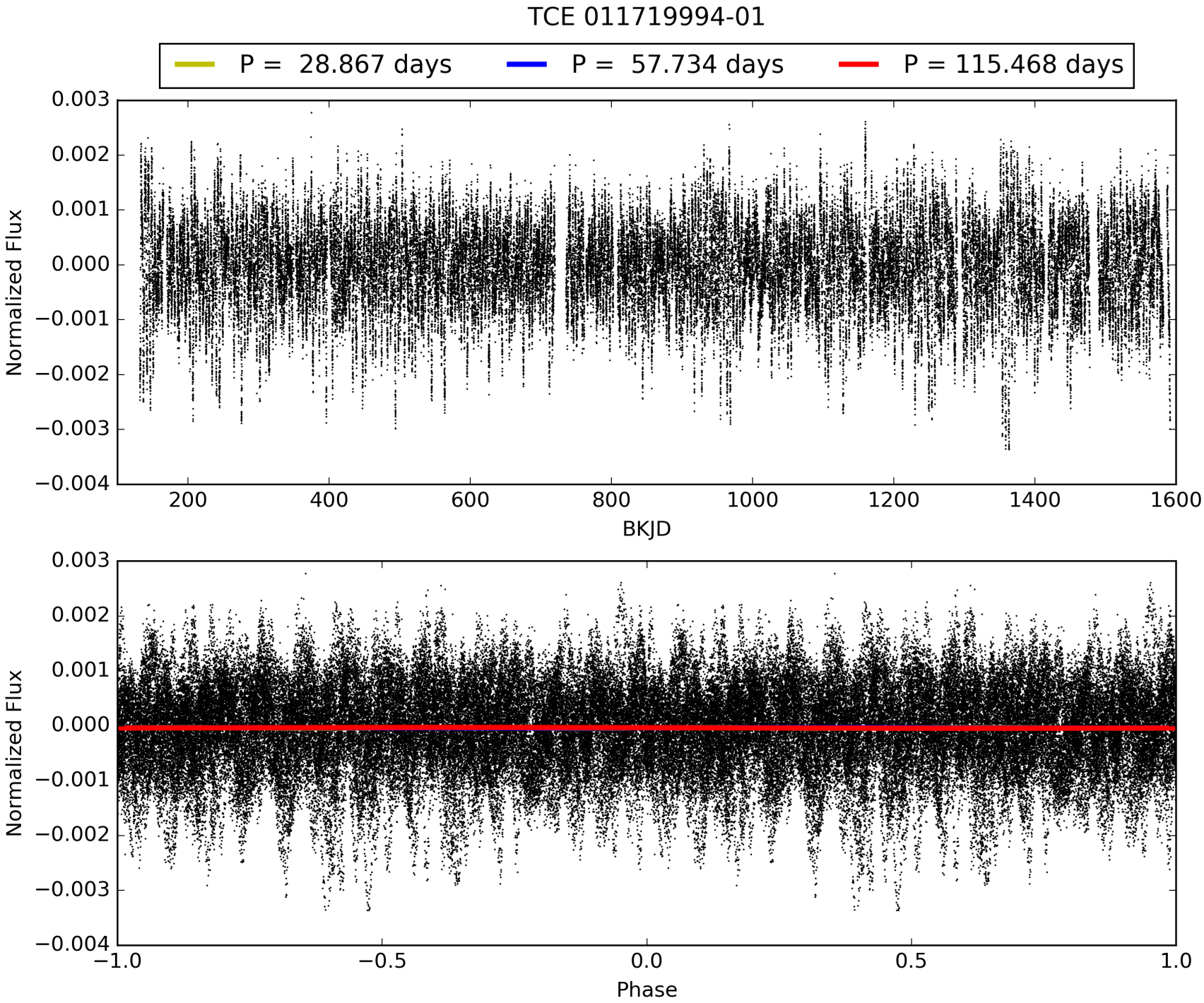
Centroid-sig: 0.1%
Centroid-so: 0.949 arcsec [1.87σ]
OotOffset-rm: 0.812 arcsec [1.62σ]
KicOffset-rm: 0.656 arcsec [1.22σ]
OotOffset-st: 2/3/3/4 [12]
KicOffset-st: 2/3/3/4 [12]
DiffImageQuality-fgm: 0.92 [11/12]
DiffImageOverlap-fno: 1.00 [14/14]

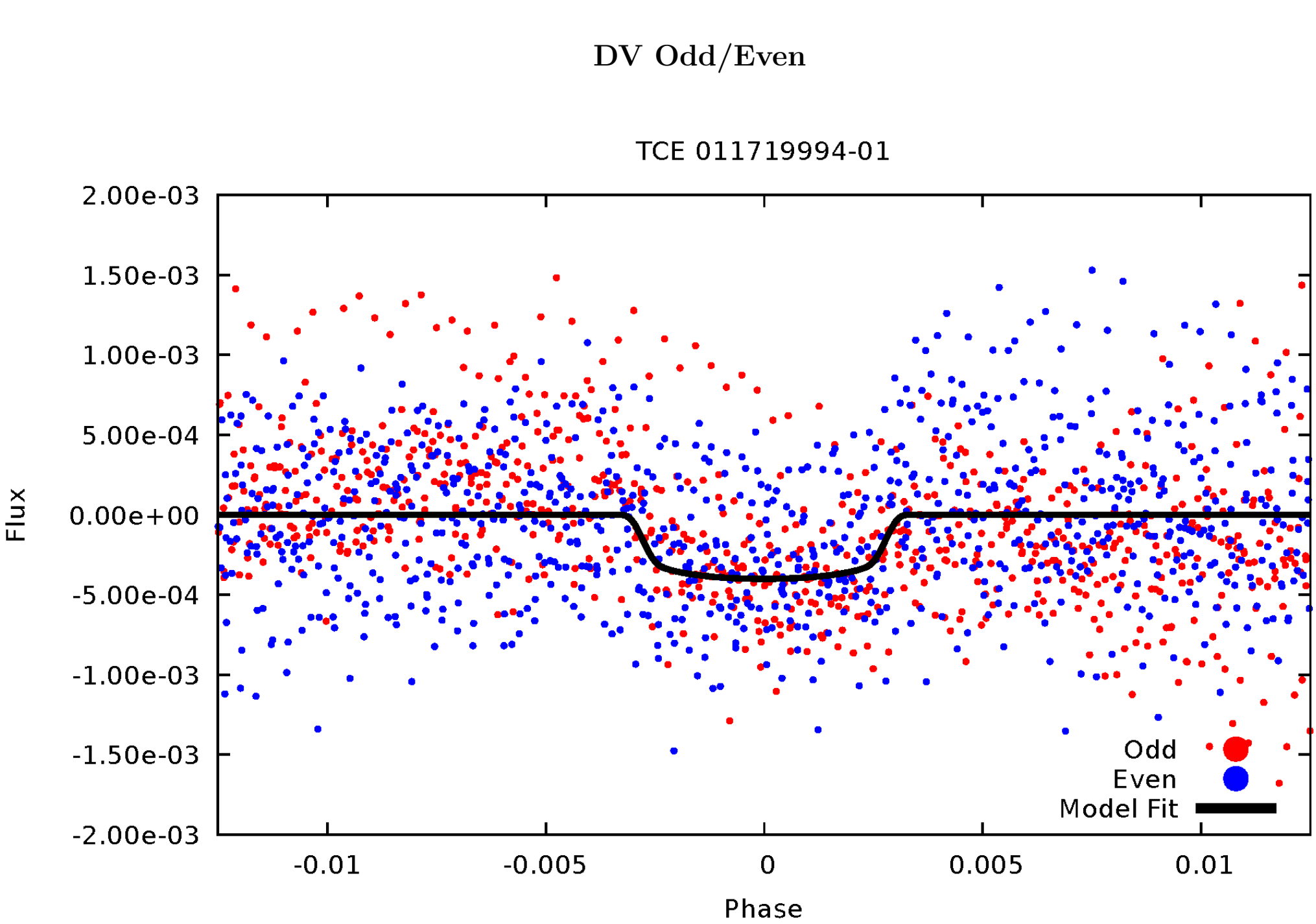
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop-2174@60968 -- Date Generated: 08-Feb-2016 08:11:41 Z

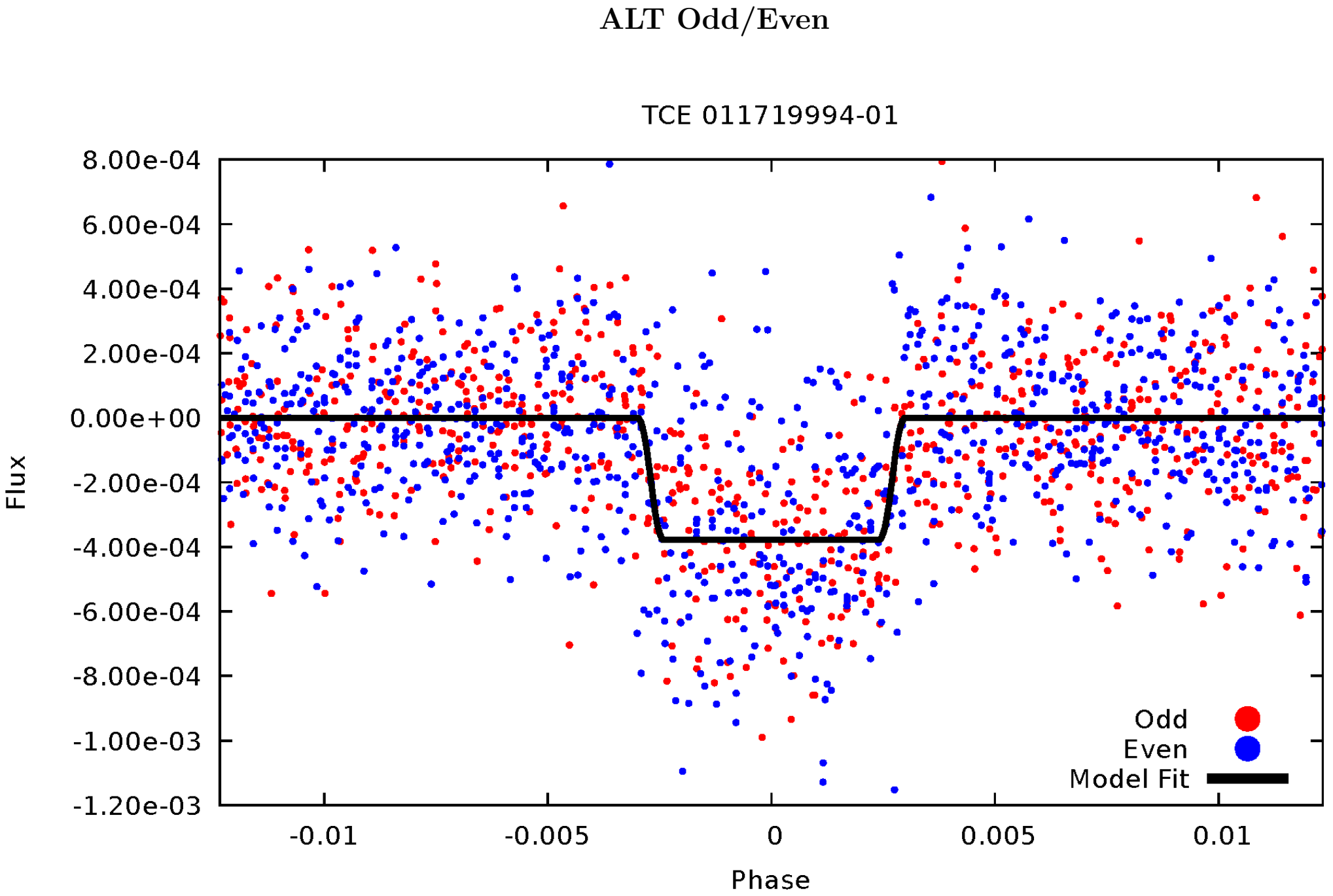
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011719994-01, PDC Light Curves

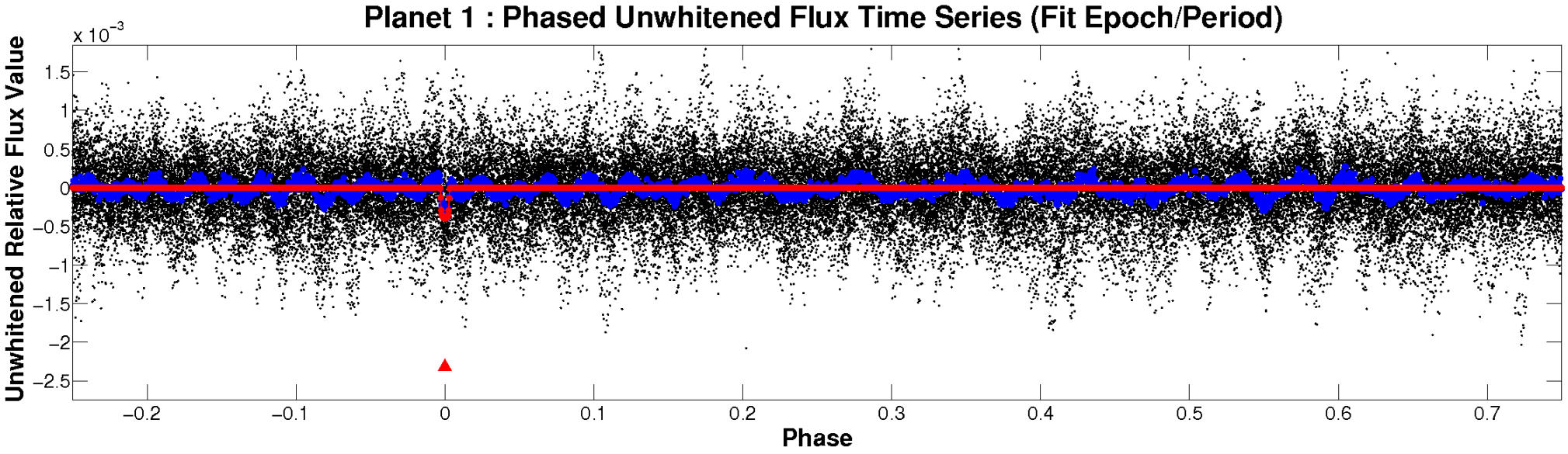


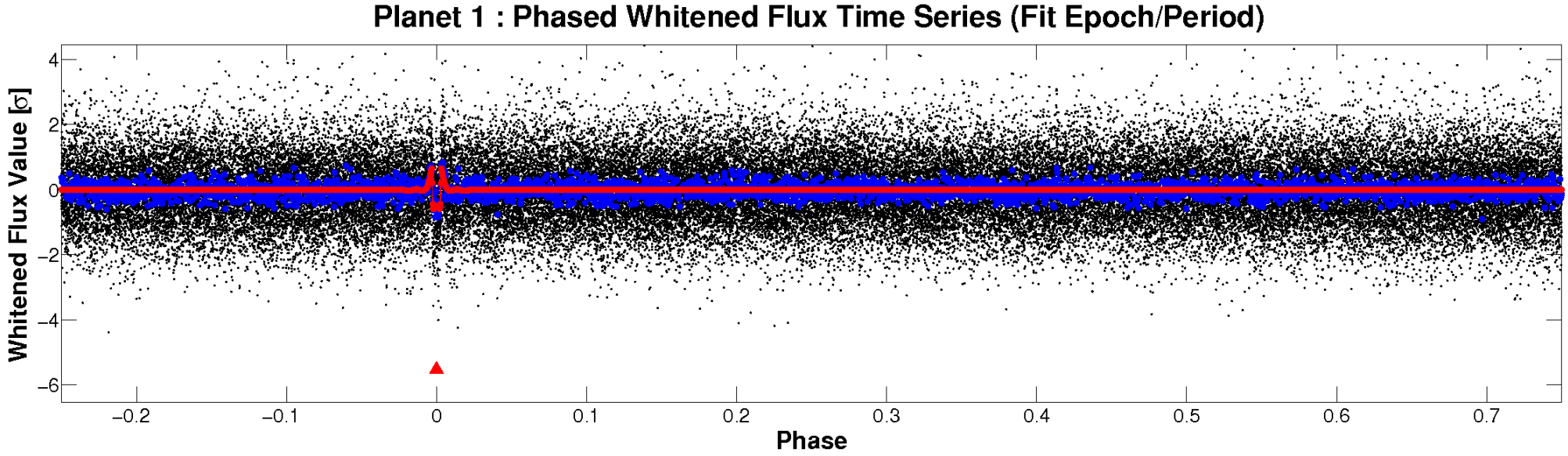

TCE 011719994-01
P = 28.867 days
P = 57.734 days
P = 115.468 days
Normalized Flux
BKJD
Normalized Flux
Phase

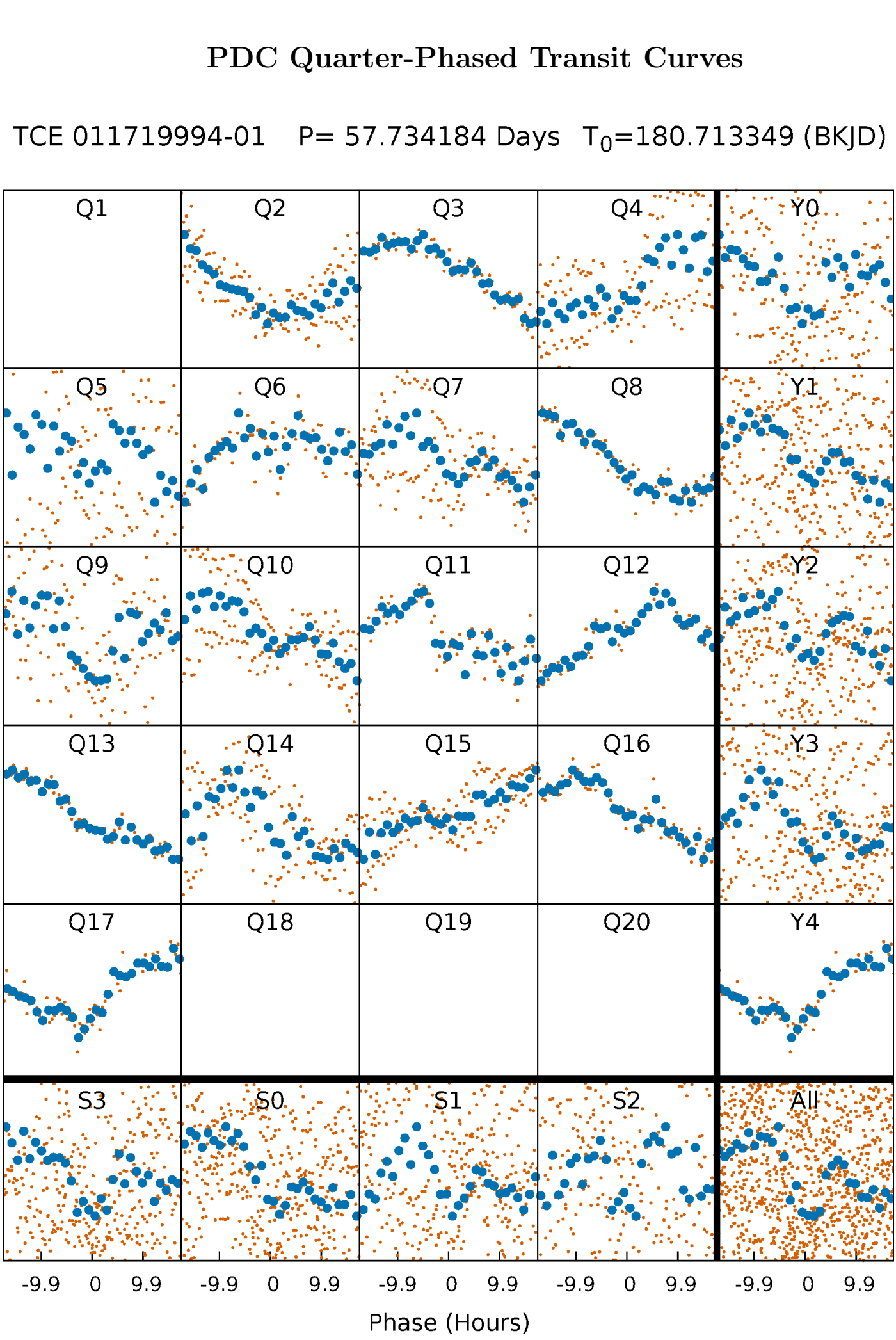

DV Odd/Even
TCE 011719994-01
2.00e-03
1.50e-03
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
-2.00e-03
Flux
-0.01
-0.005
0
0.005
0.01
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 011719994-01
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
-1.20e-03
Flux
-0.01
-0.005
0
0.005
0.01
Phase
Odd
Even
Model Fit

Non-Whitened Vs. Whitened Light Curve

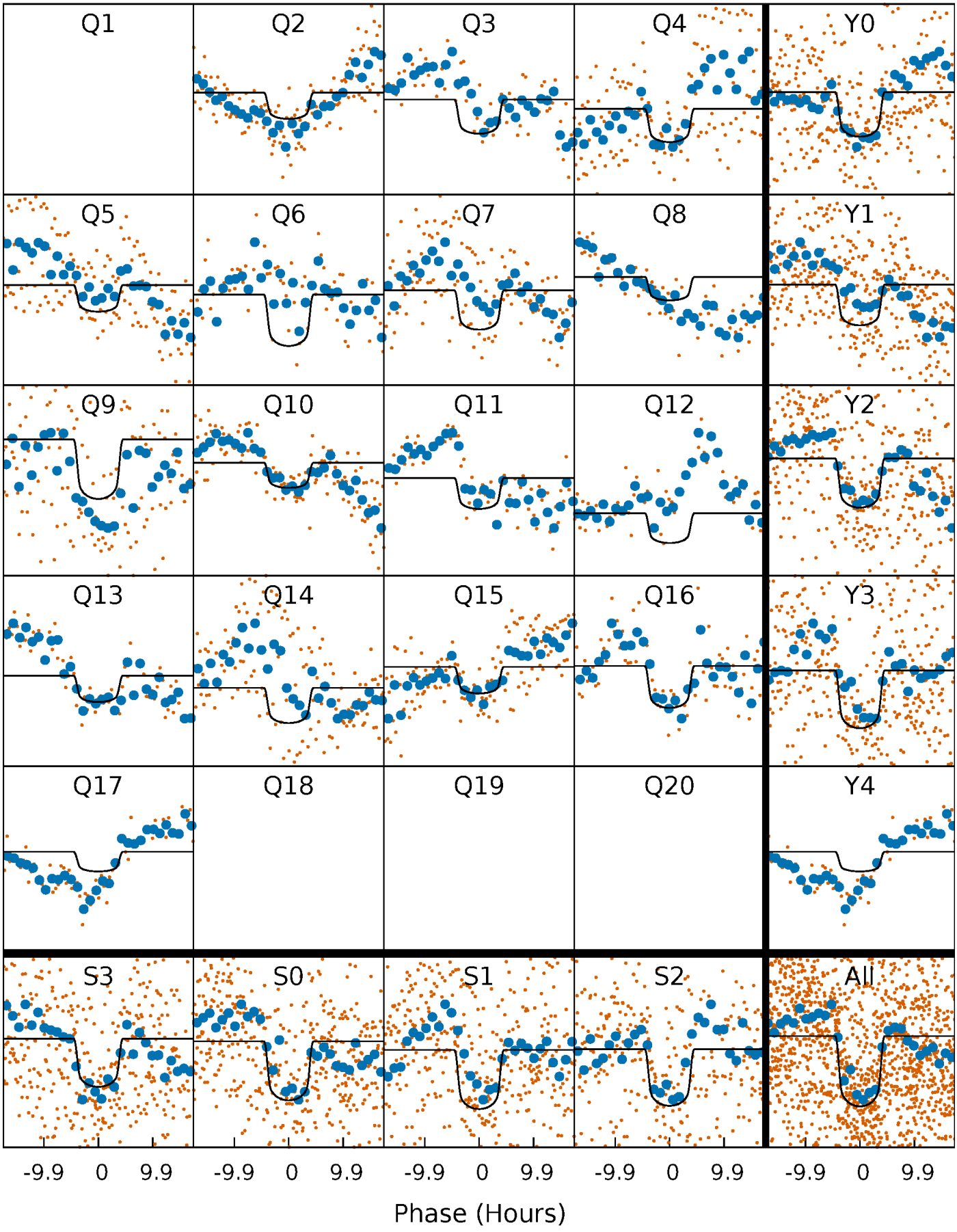





PDC Quarter-Phased Transit Curves
TCE 011719994-01 P= 57.734184 Days T0=180.713349 (BKJD)
Q1
Q2
Q3
Q4
Y0
Q5
Q6
Q7
Q8
Y1
Q9
Q10
Q11
Q12
Y2
Q13
Q14
Q15
Q16
Y3
Q17
Q18
Q19
Q20
Y4
S3
S0
S1
S2
All
-9.9
0
9.9
Phase (Hours)

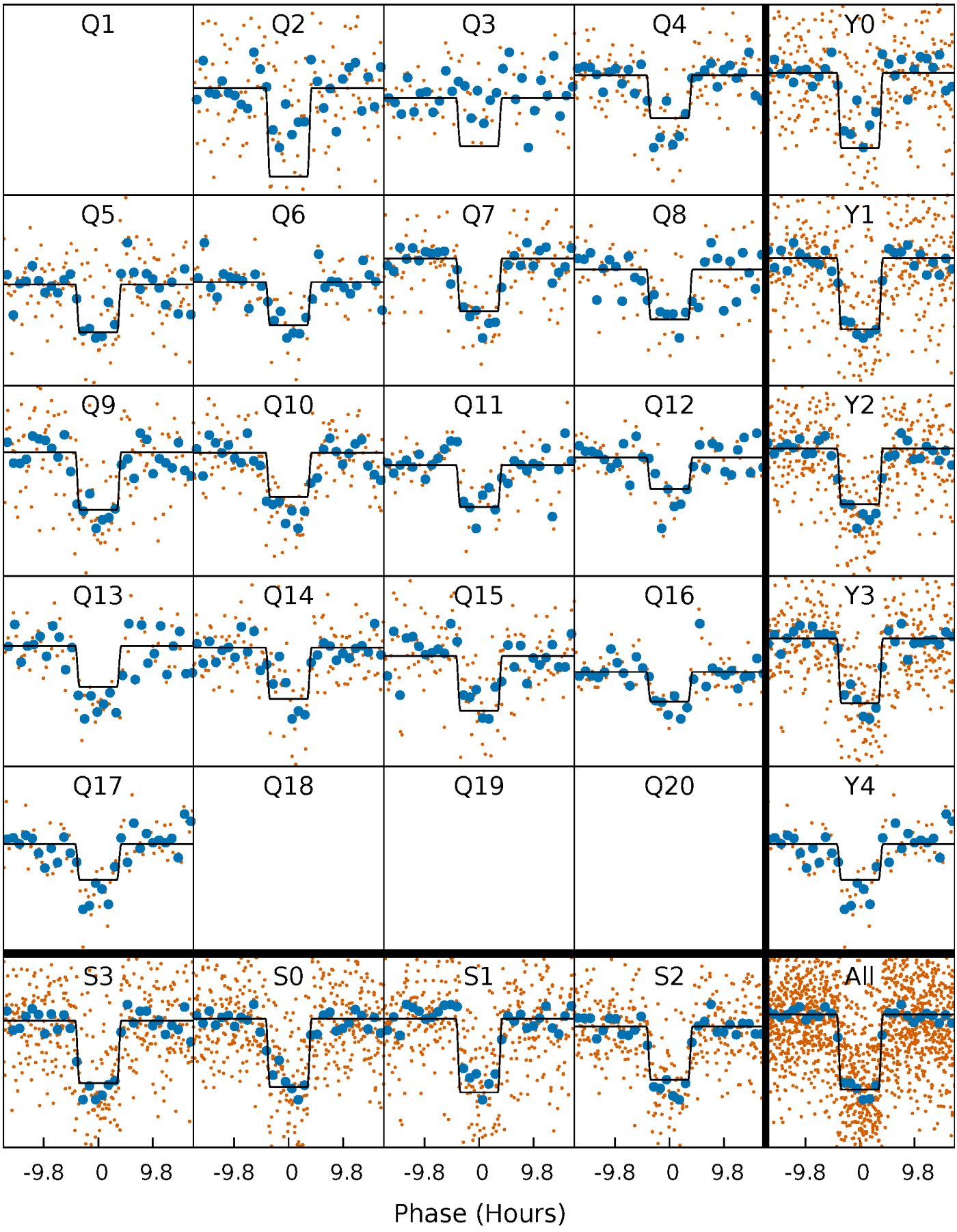
DV Quarter-Phased Transit Curves

TCE 011719994-01 P= 57.734184 Days T_0=180.713349 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

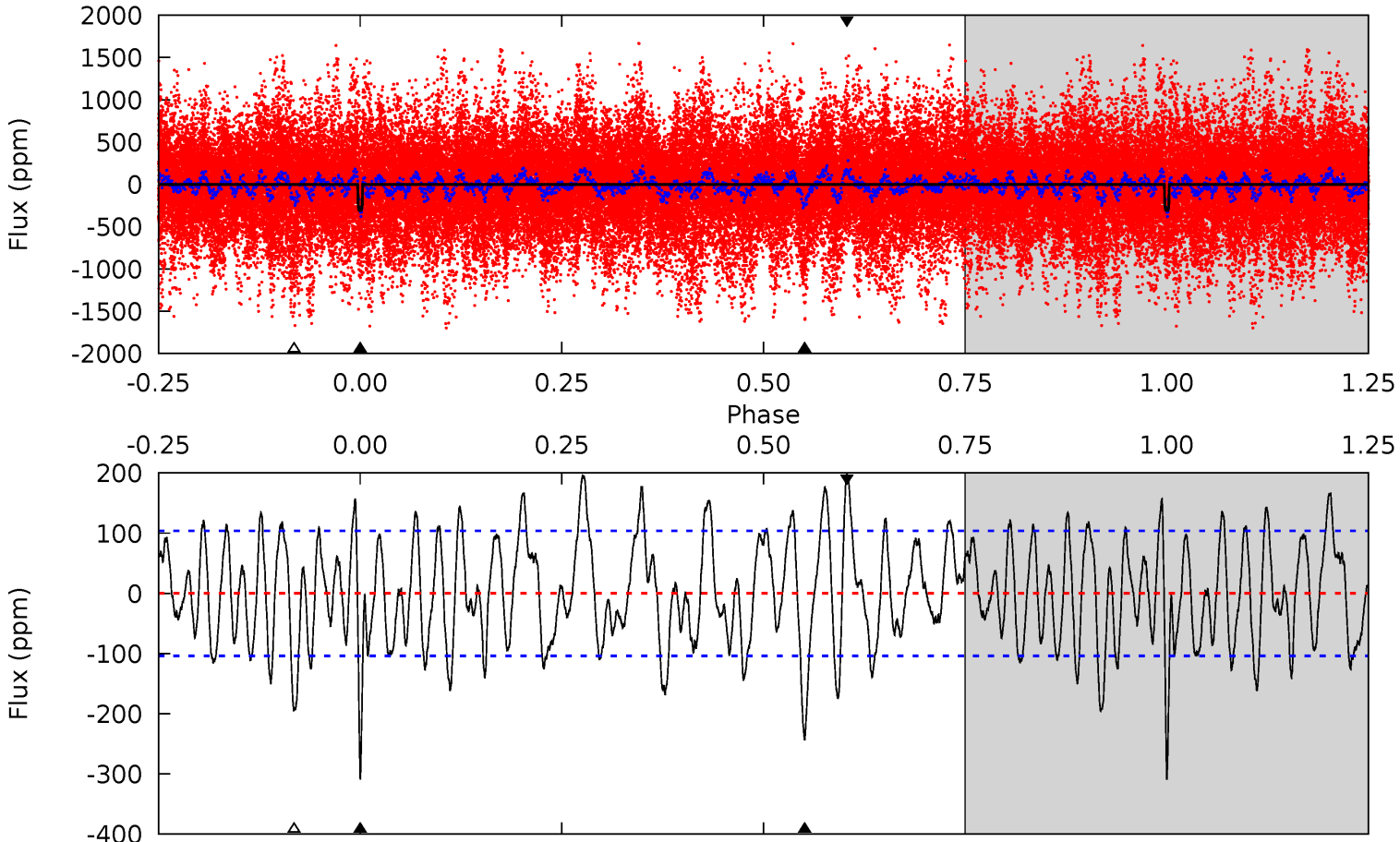
TCE 011719994-01 P= 57.733509 Days T_0=180.724803 (BKJD)

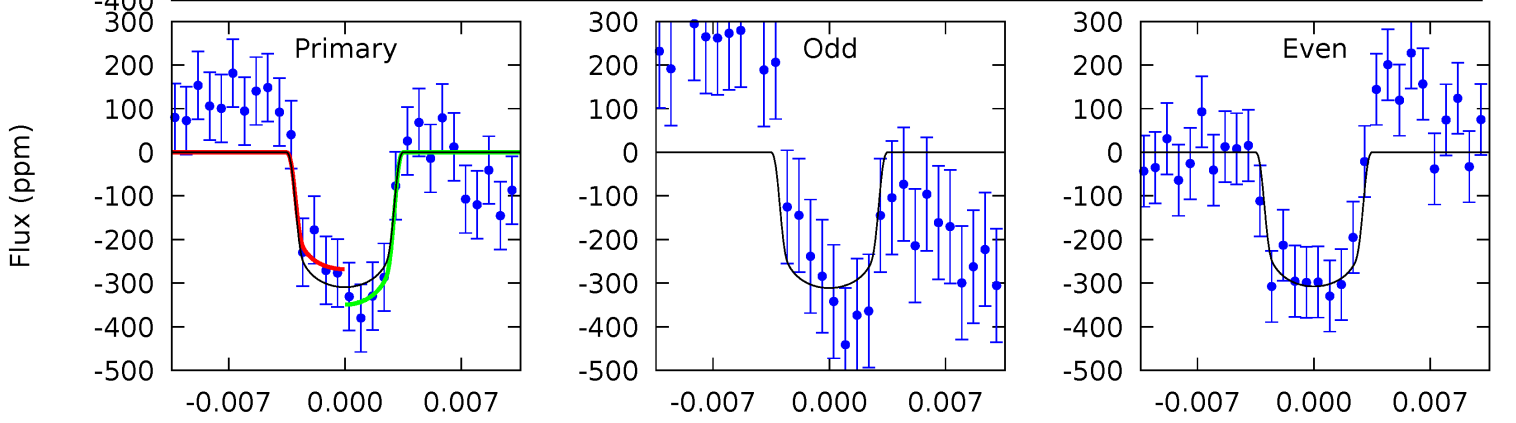


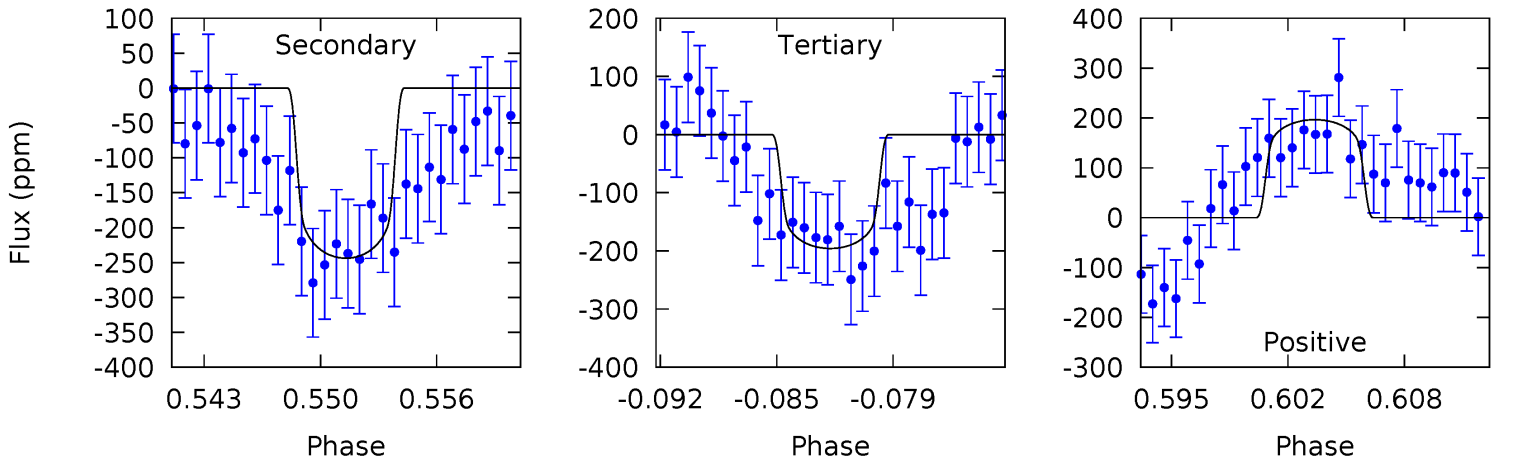
DV Model-Shift Uniqueness Test

011719994-01, P = 57.734184 Days, E = 122.979165 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.2	12.0	9.63	9.66	5.11	2.72	3.92	5.58	5.55	2.36	2.33	0.09	0.79	0.39	2.00



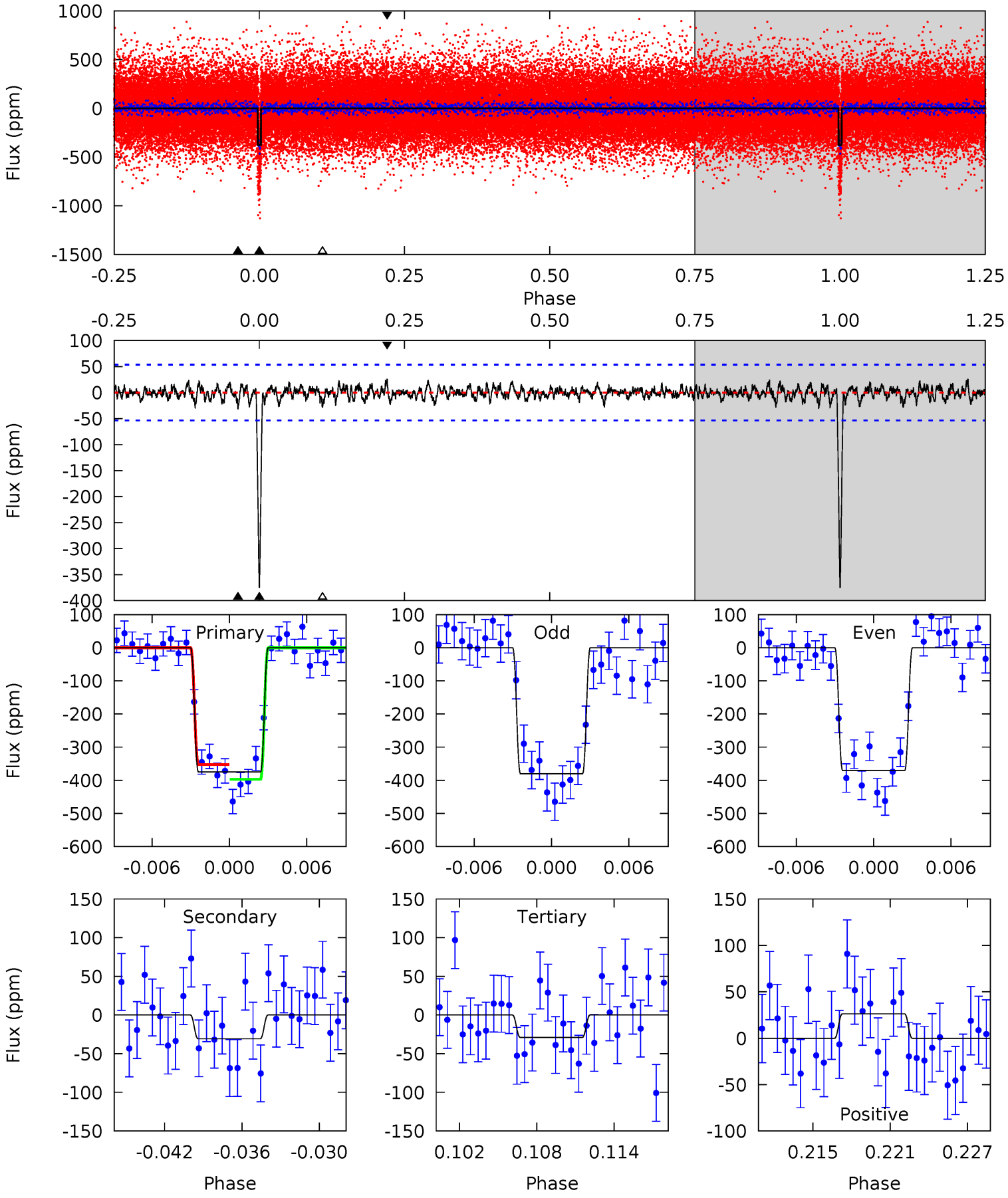




Alt Model-Shift Uniqueness Test

011719994-01, P = 57.733509 Days, E = 122.991294 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.7	2.94	2.76	2.51	5.12	2.75	0.82	33.0	33.2	0.18	0.43	0.46	0.94	0.07	2.14



Stellar Parameters For KIC 011719994

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6520^{+162}_{-211}	$4.375^{+0.062}_{-0.188}$	$0.070^{+0.200}_{-0.350}$	$1.215^{+0.347}_{-0.149}$	$1.279^{+0.162}_{-0.198}$	$1.005^{+0.318}_{-0.499}$
	+2%/-3%	+1%/-4%	+286%/-500%	+29%/-12%	+13%/-15%	+32%/-50%
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 011719994-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-244±20	$2.95^{+0.45}_{-0.32}$	799^{+52}_{-36}	5547^{+244}_{-240}	1504^{+387}_{-345}
Alt.	-31±10	$2.65^{+0.46}_{-0.31}$	803^{+49}_{-43}	3835^{+242}_{-256}	226^{+108}_{-83}

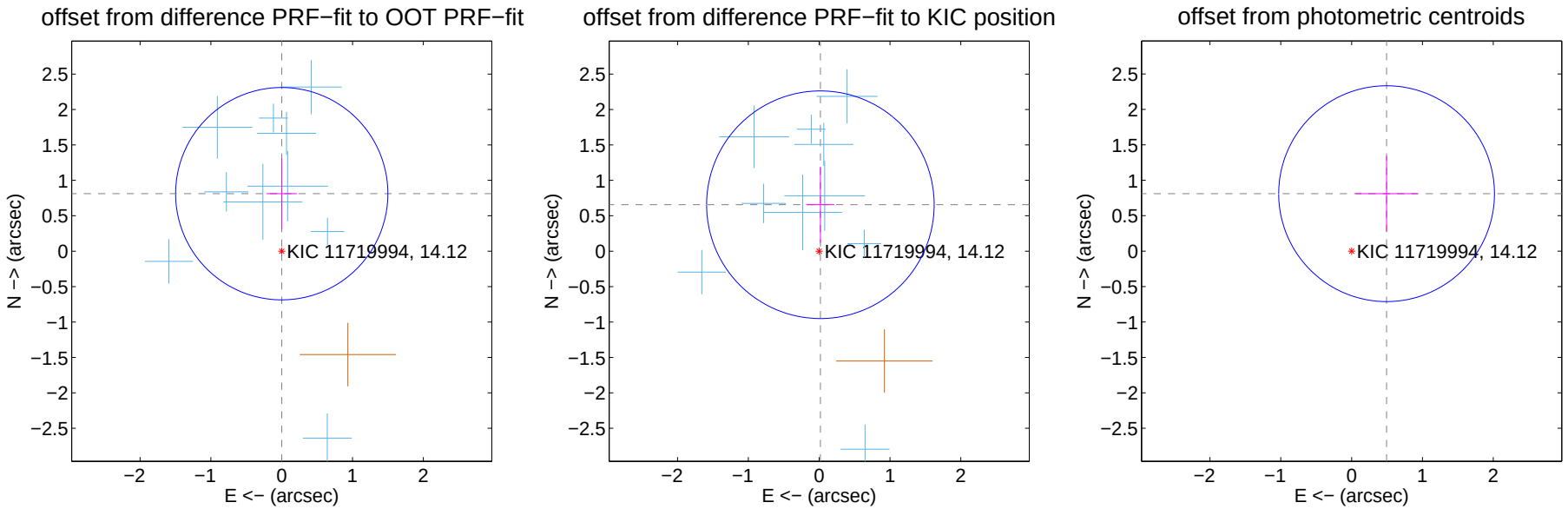
T_{max} = Theoretical Maximum Planetary Temperature
T_{obs} = Observed Planetary Temperature (Assuming A=0.3)
A_{obs} = Observed Albedo (Assuming T=0)

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

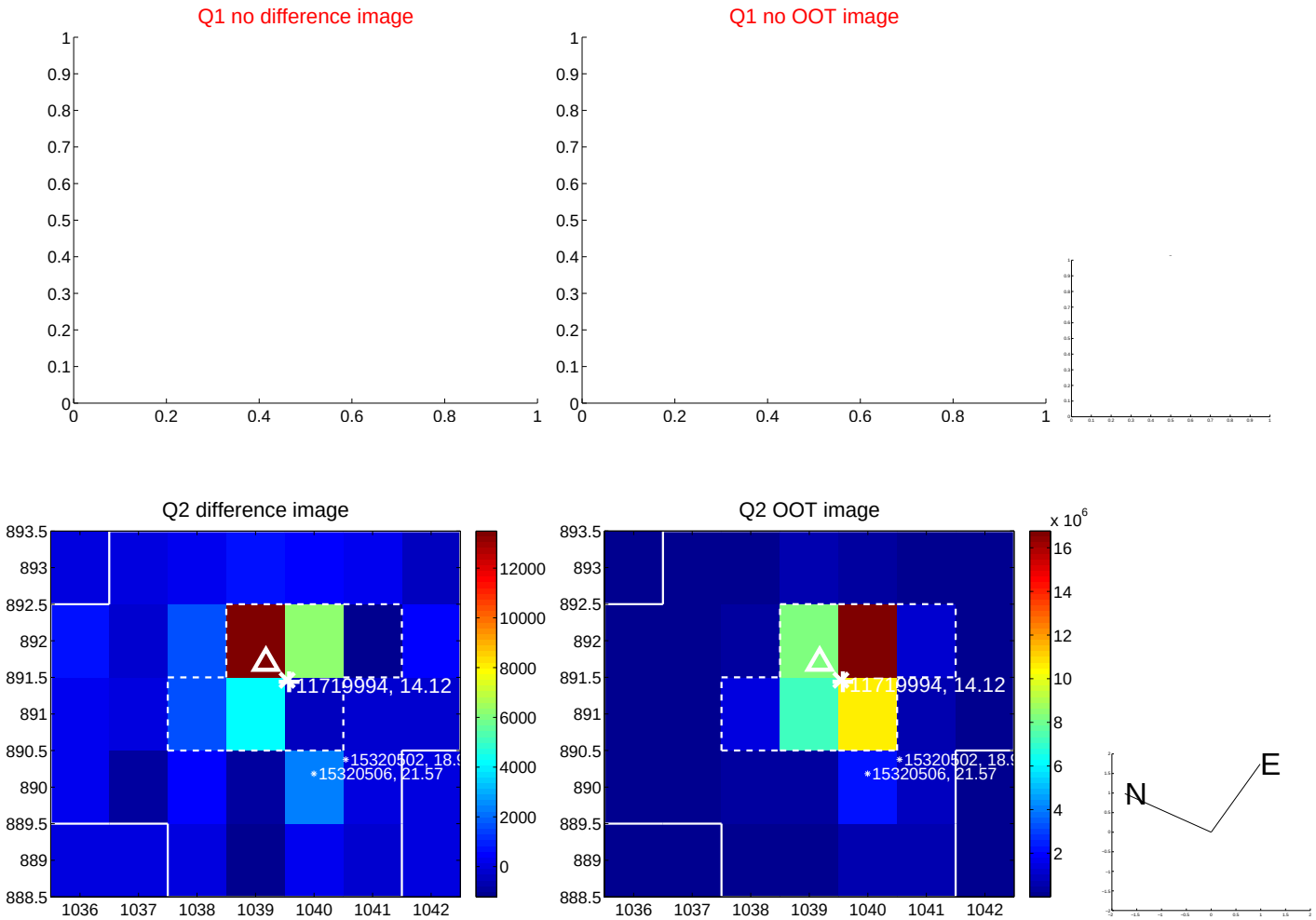
Supplemental centroid analysis for 011719994-01. Kepler magnitude: 14.12. Transit SNR 12.75
There are 11 quarters with good PRF difference image offsets
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.812 ± 0.500	1.62	-0.001 ± 0.217	0.812 ± 0.500
PRF-fit source offset from KIC position	0.656 ± 0.536	1.22	-0.017 ± 0.199	0.656 ± 0.537
photometric centroid source offset	0.95 ± 0.51	1.87	-0.49 ± 0.44	0.81 ± 0.53

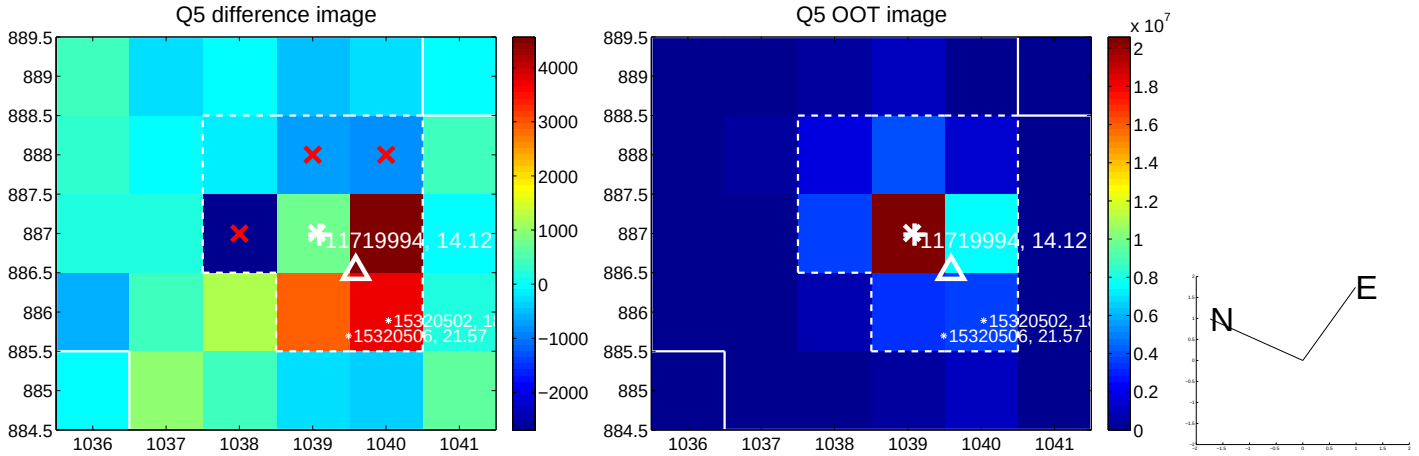


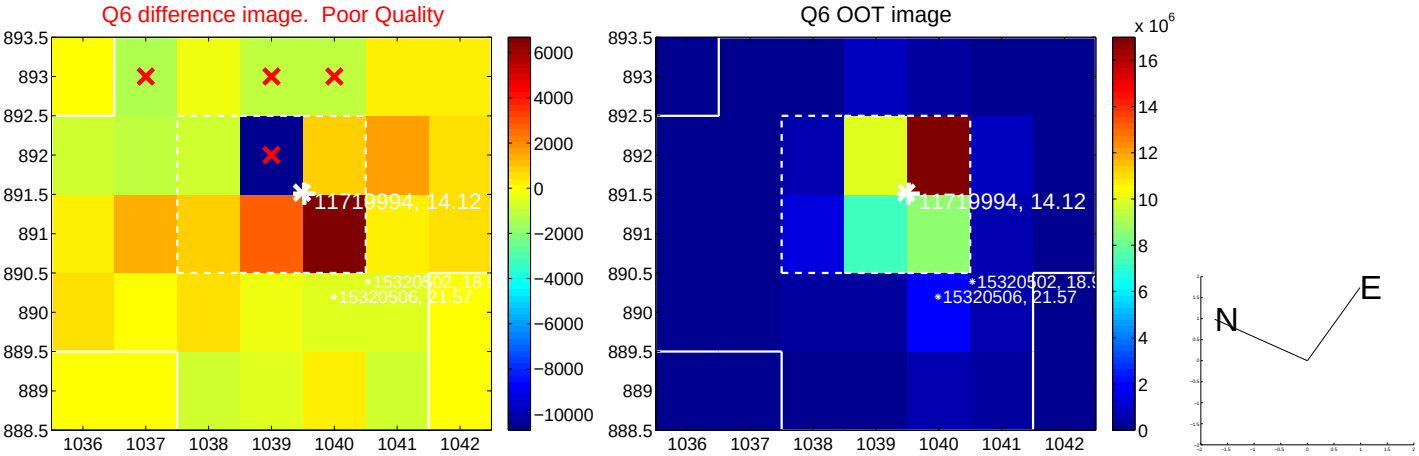
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one-σ uncertainty. Blue circle: three-σ. Red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

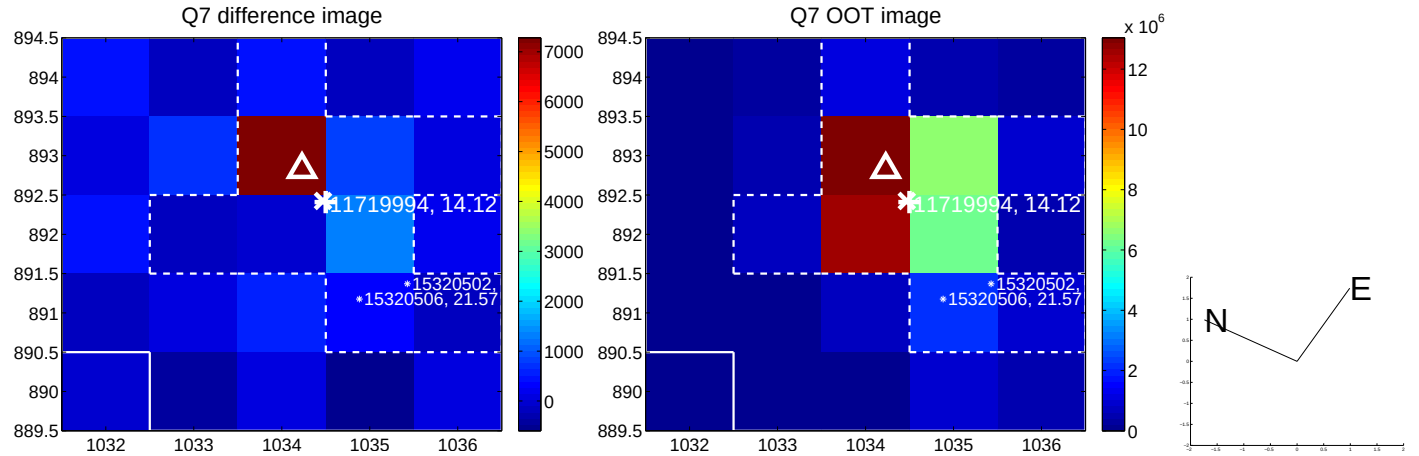
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

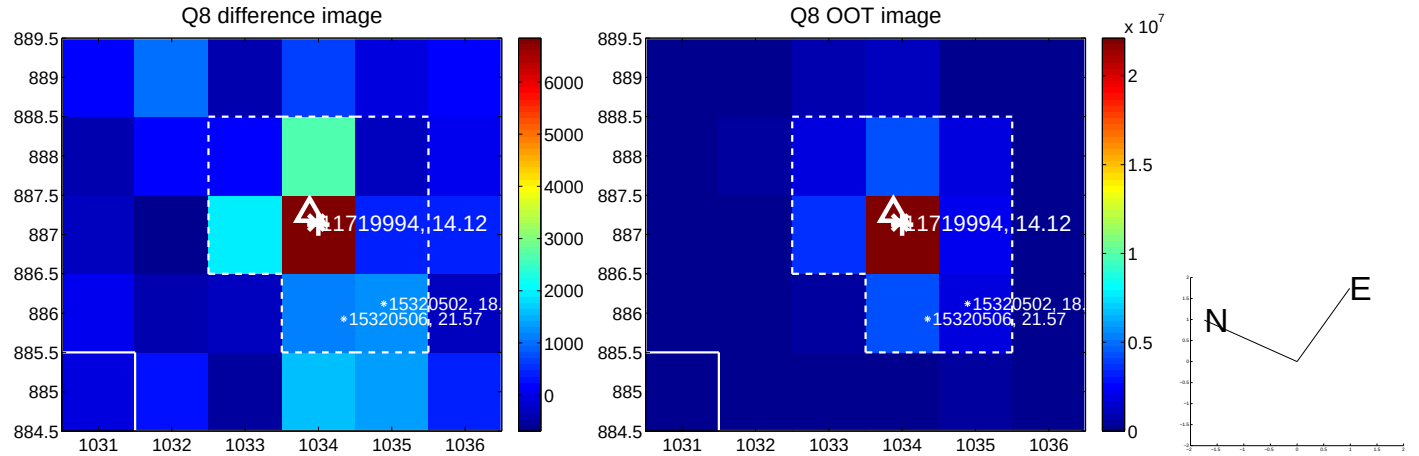


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

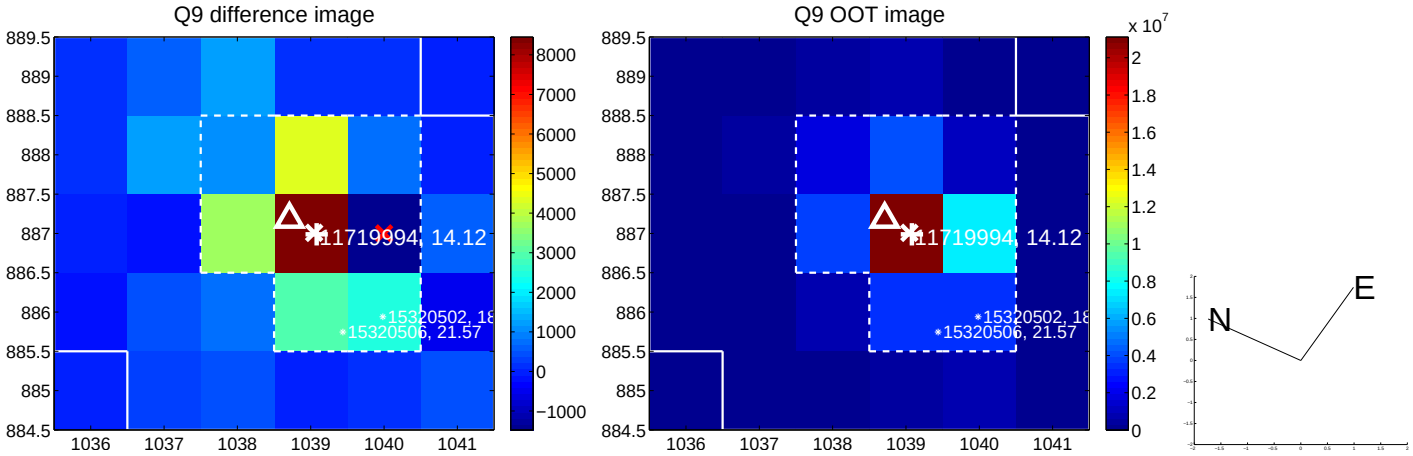


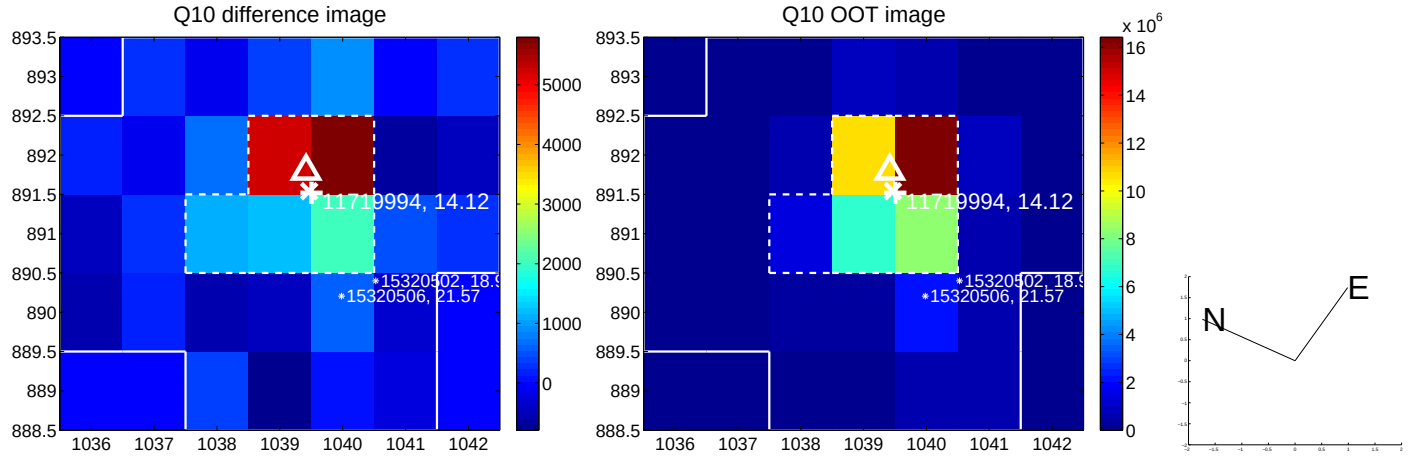


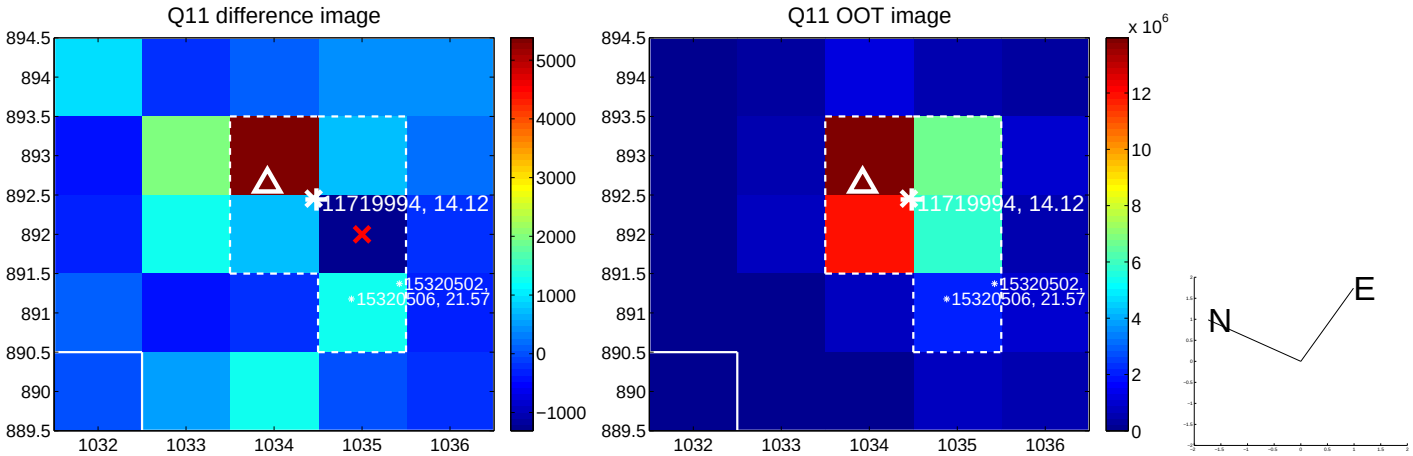


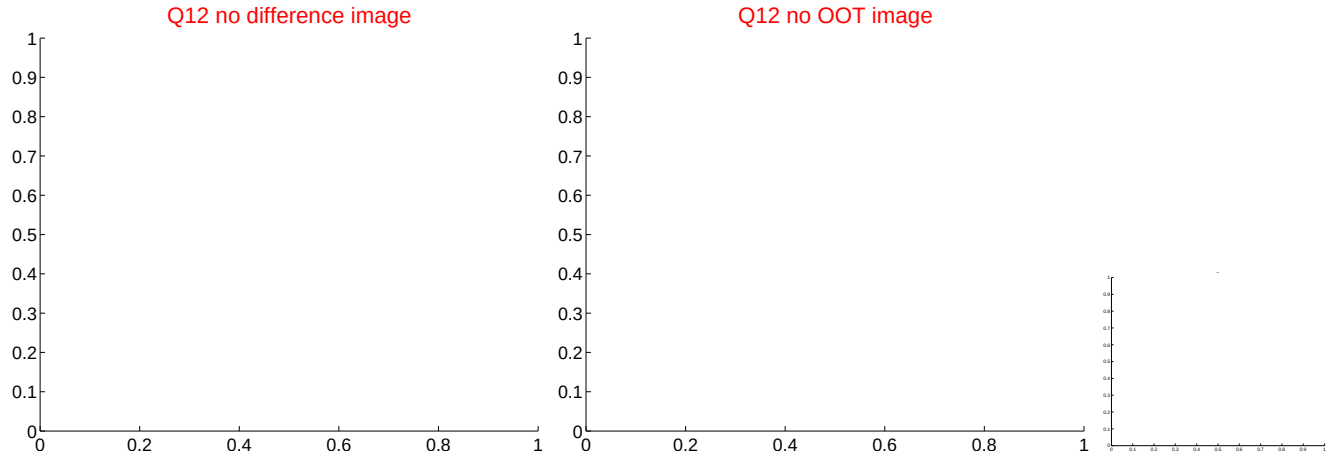


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

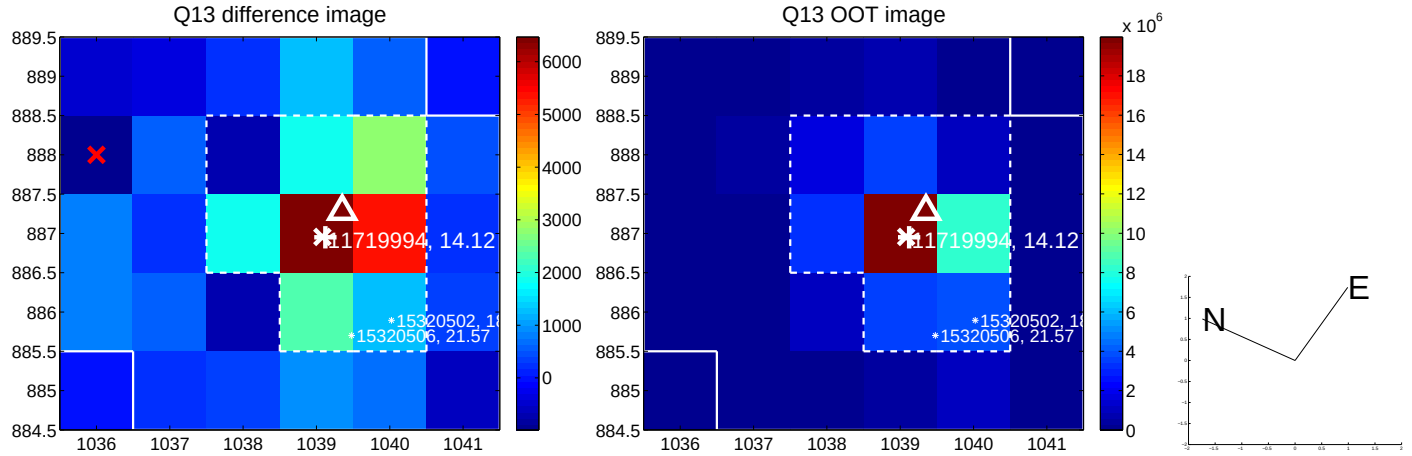


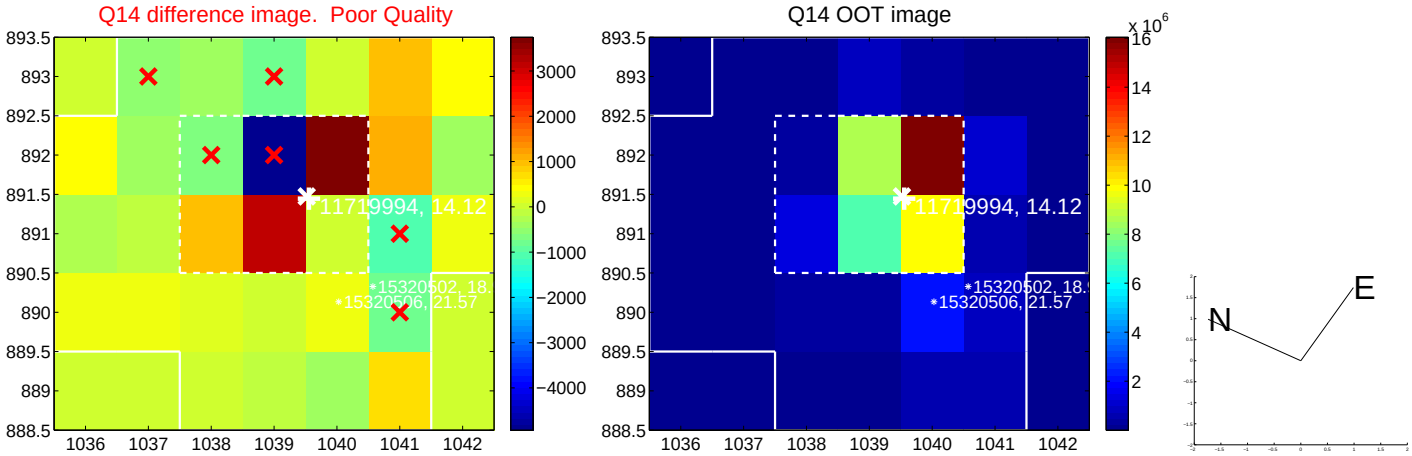


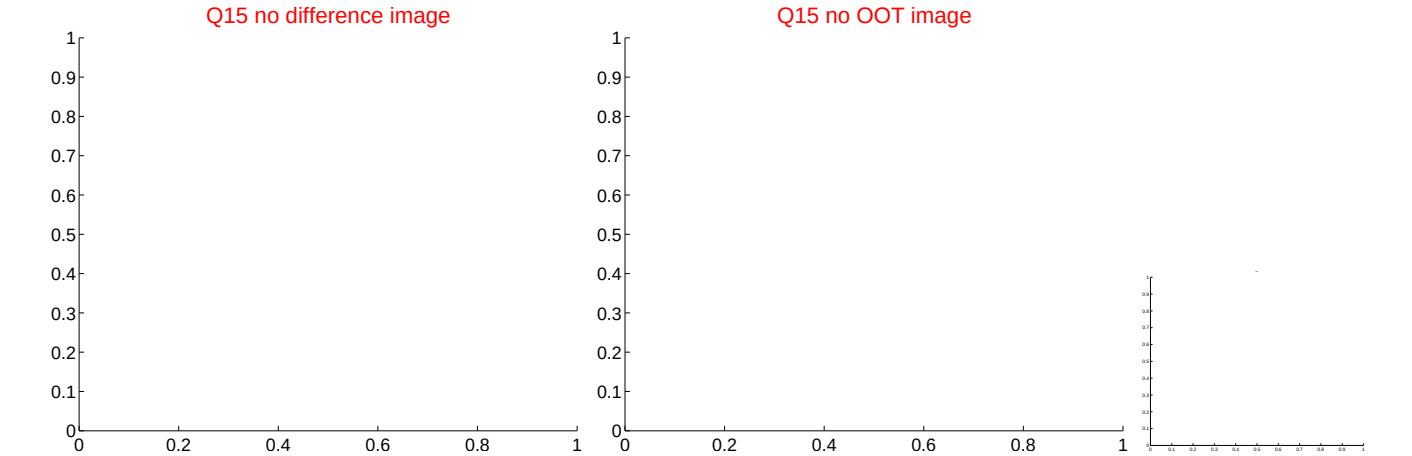


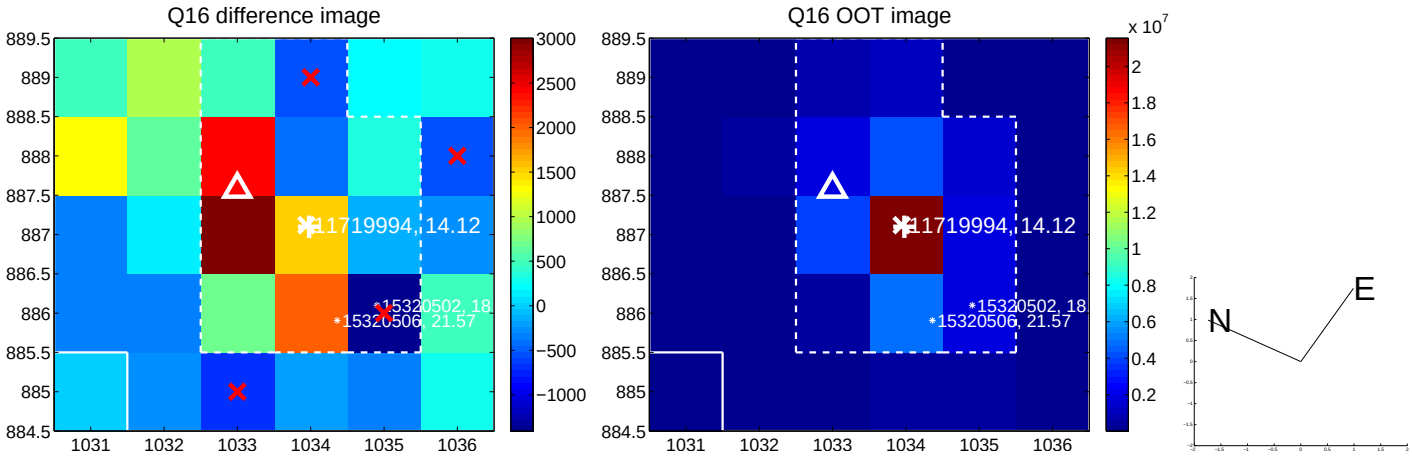


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.

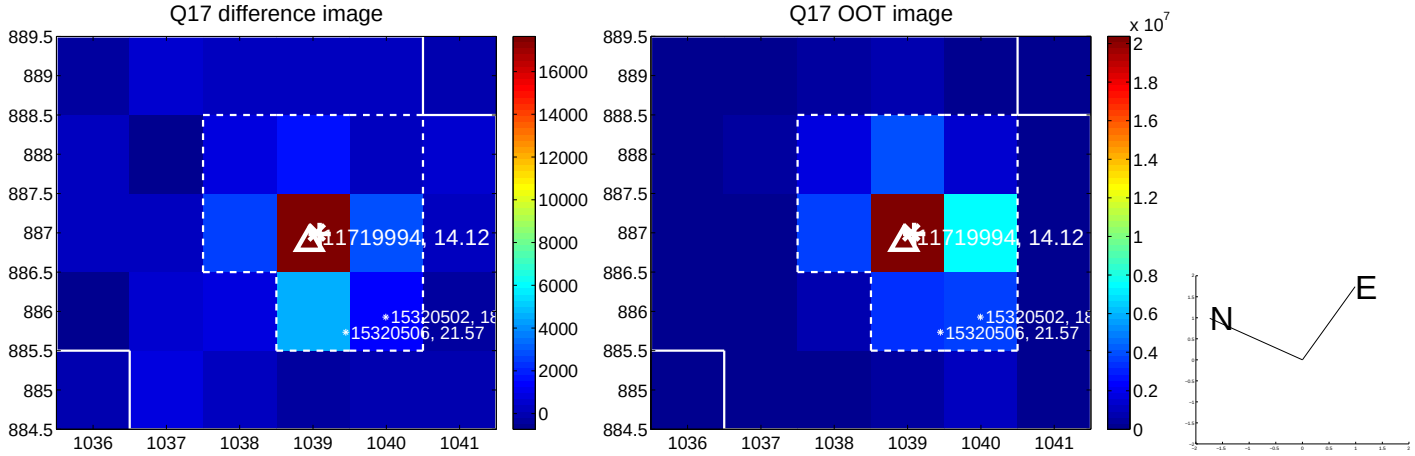


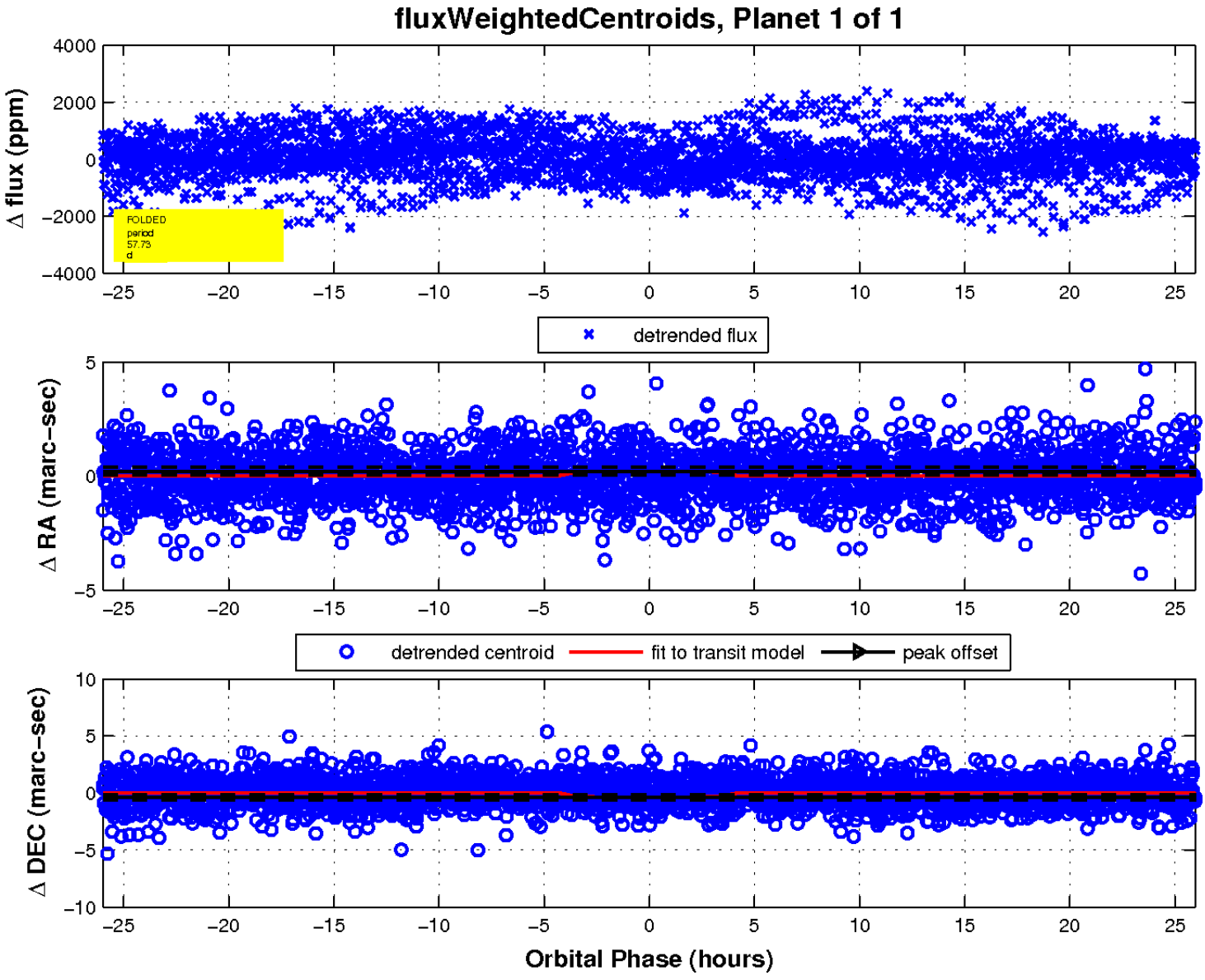






white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.





UKIRT Image