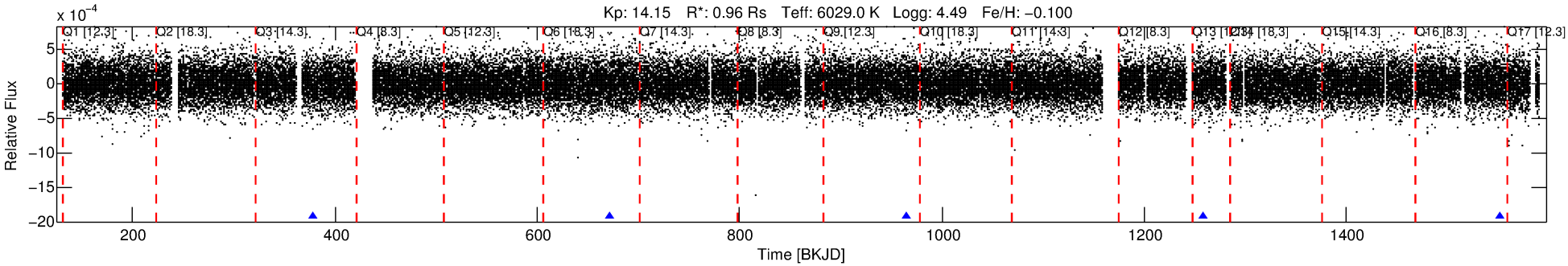
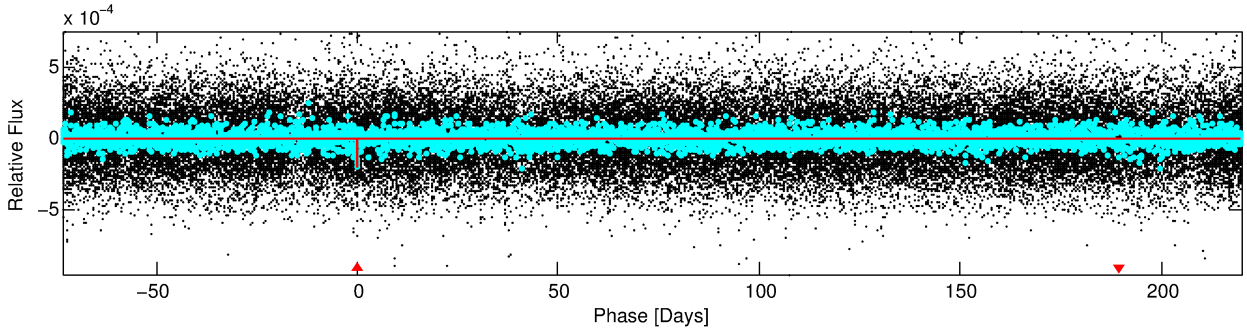
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

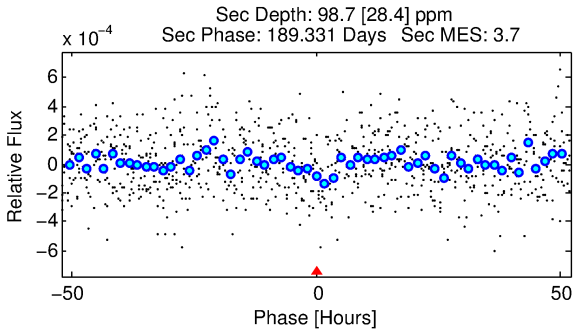
DV One-Page Summary

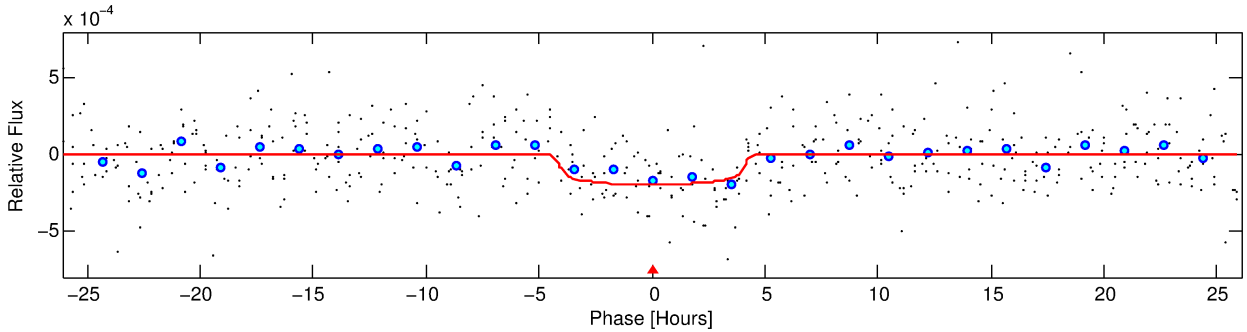
KIC: 10264871 Candidate: 1 of 1 Period: 293.262 d

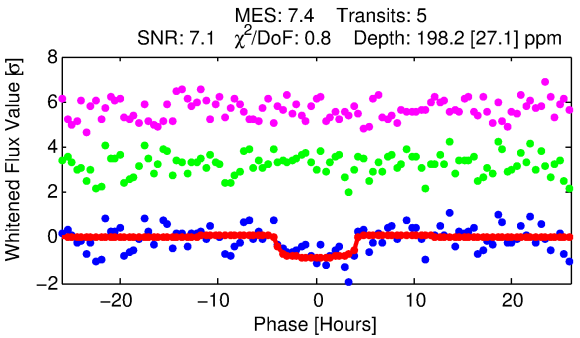
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

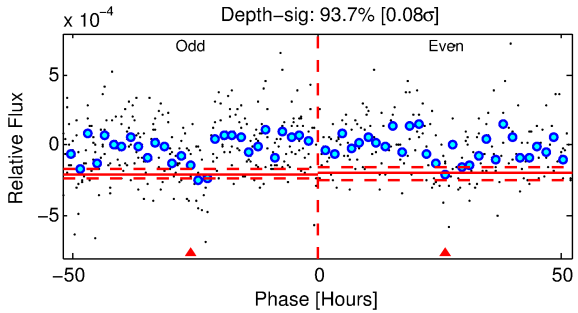












DV Fit Results:

Period = 293.26176 [0.00696] d
Epoch = 378.7675 [0.0161] BKJD
Rp/R* = 0.0147 [0.0068]
a/R* = 141.82 [326.08]
b = 0.85 [0.75]

Seff = 1.41 [0.57]
Teq = 278 [28] K
Rp = 1.53 [0.86] Re
a = 0.8753 [0.2304] AU

Ag = 17740.71 [18544.20] [0.96σ]
Teffp = 4960 [1218] K [3.84σ]

DV Diagnostic Results:

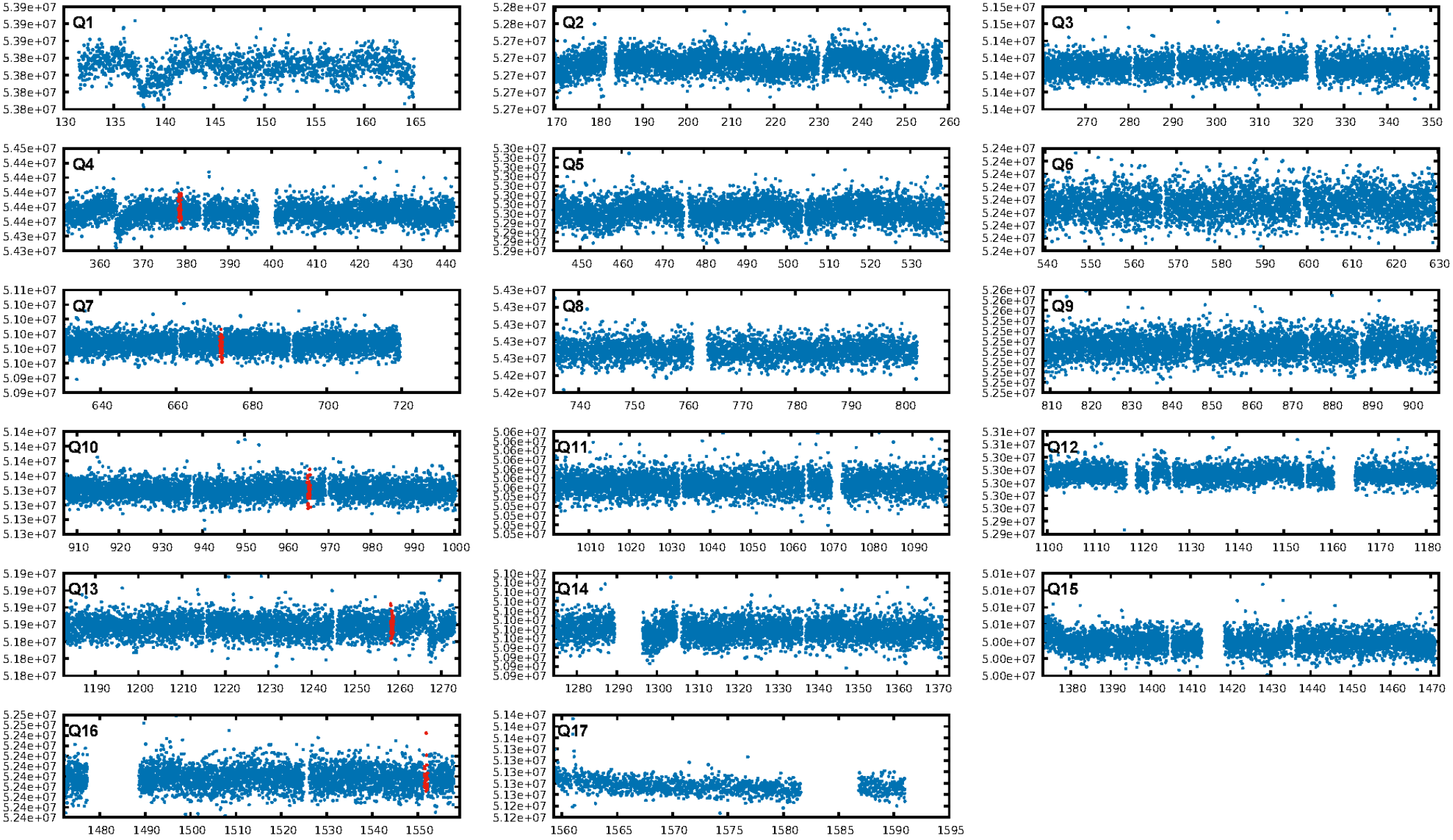
ShortPeriod−sig: N/A
LongPeriod−sig: N/A
ModelChiSquare2−sig: 58.6%
ModelChiSquareGof−sig: 100.0%
Bootstrap−pfa: 8.23e−14
RollingBand−fgt: N/A
GhostDiagnostic−chr: N/A

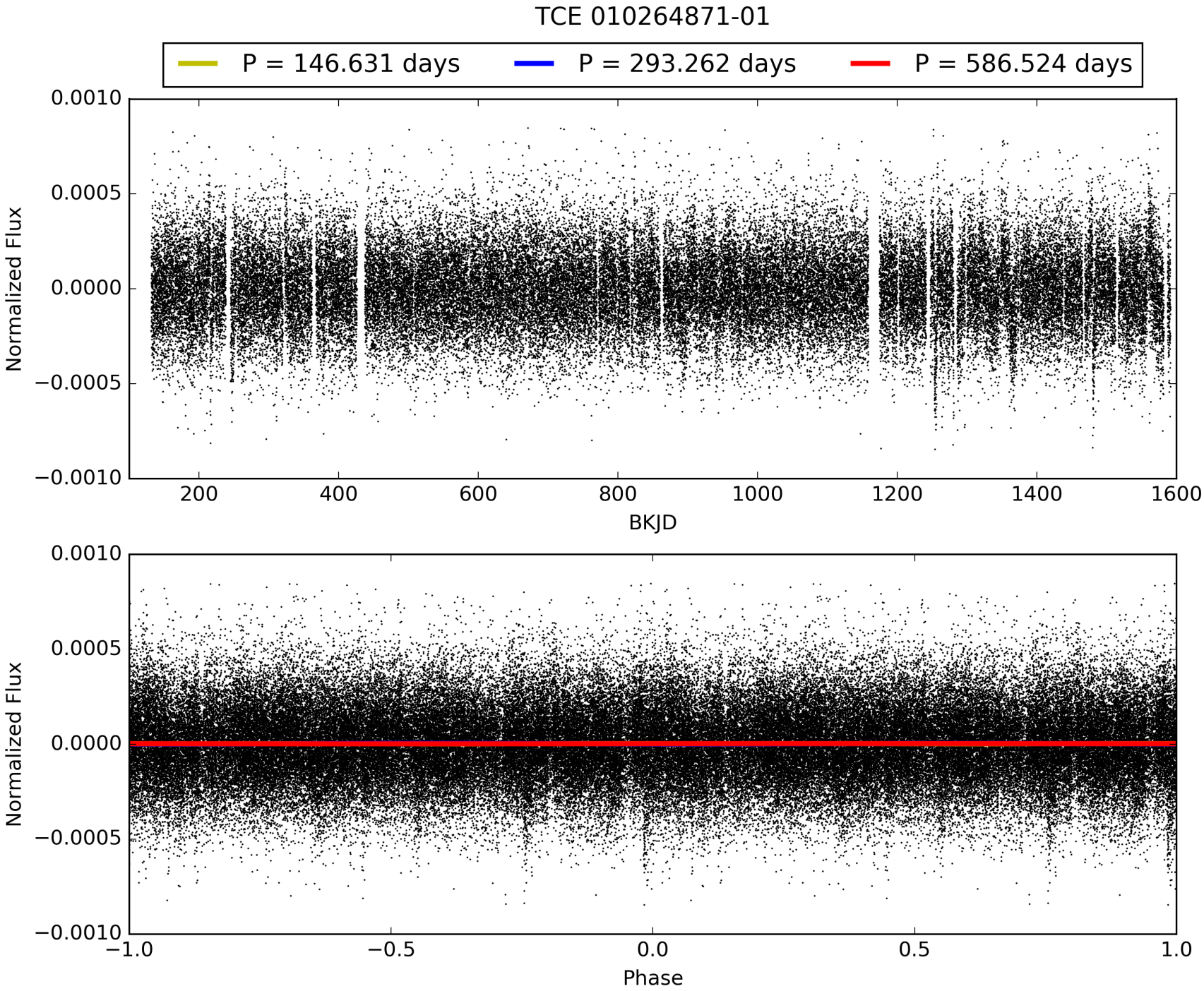
Centroid−sig: N/A
Centroid−so: N/A
OotOffset−rm: N/A
KicOffset−rm: N/A
OotOffset−st: 0/0/0/0 [0]
KicOffset−st: 0/0/0/0 [0]
DiffImageQuality−fgm: N/A
DiffImageOverlap−fno: N/A

Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop−2602@61285 −− Date Generated: 02−Jun−2016 01:38:03 Z

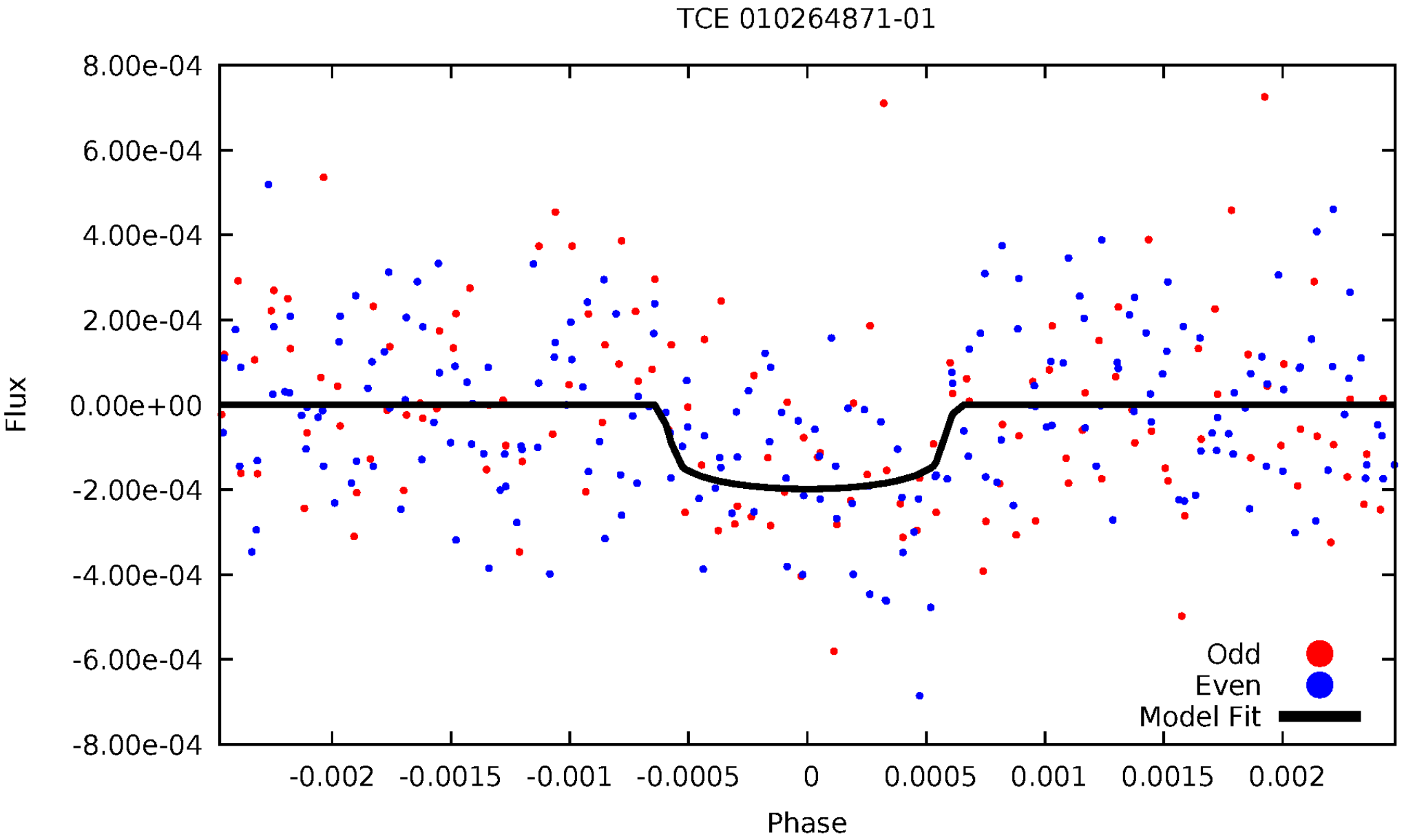
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

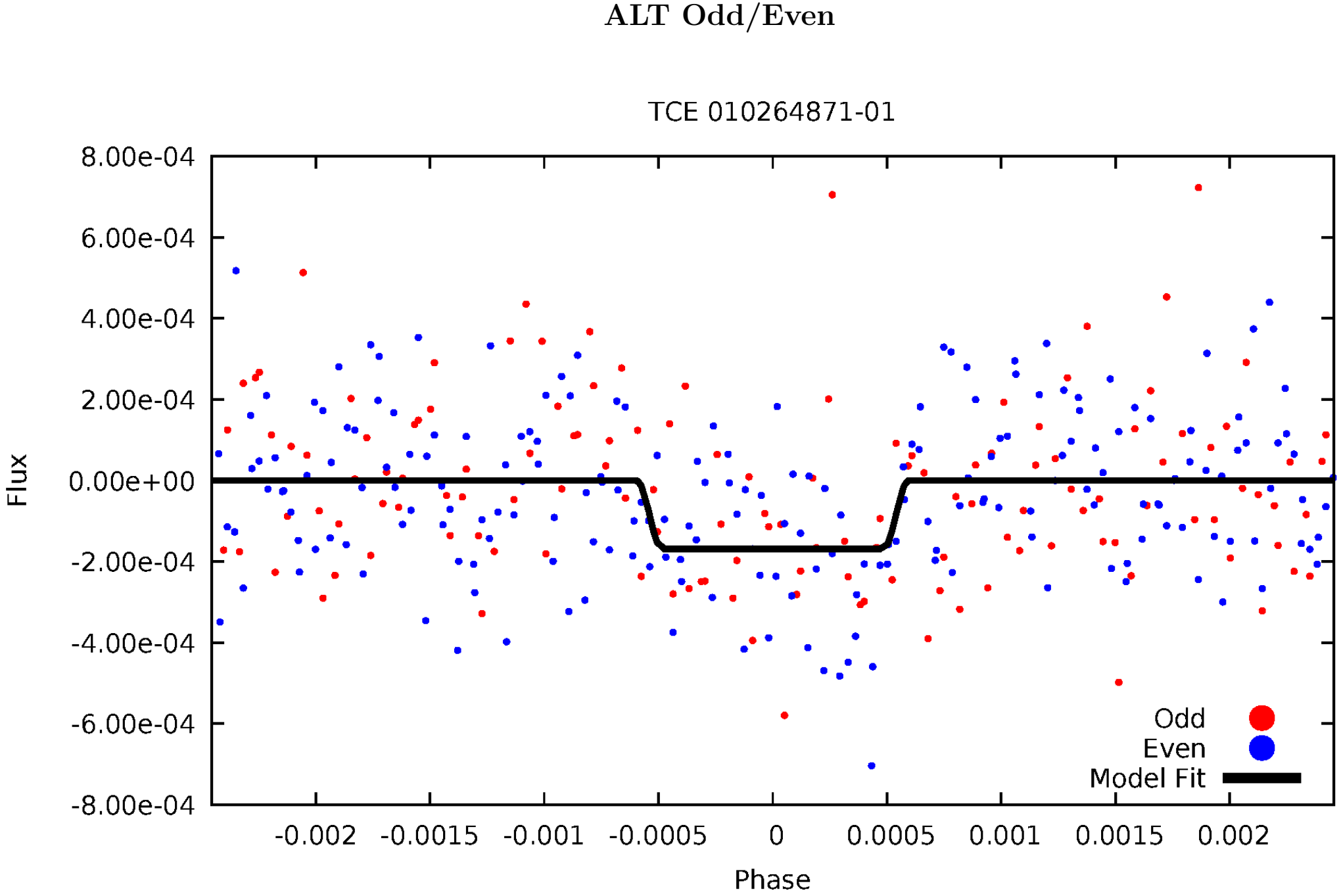
TCE 010264871-01, PDC Light Curves



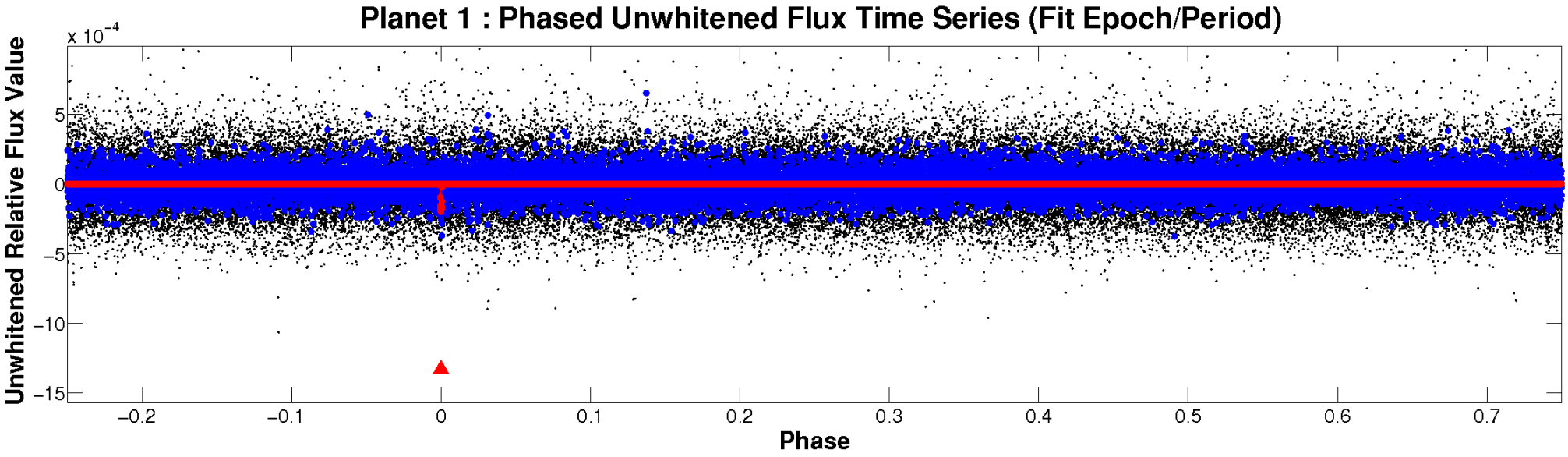

TCE 010264871-01
P = 146.631 days
P = 293.262 days
P = 586.524 days
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase

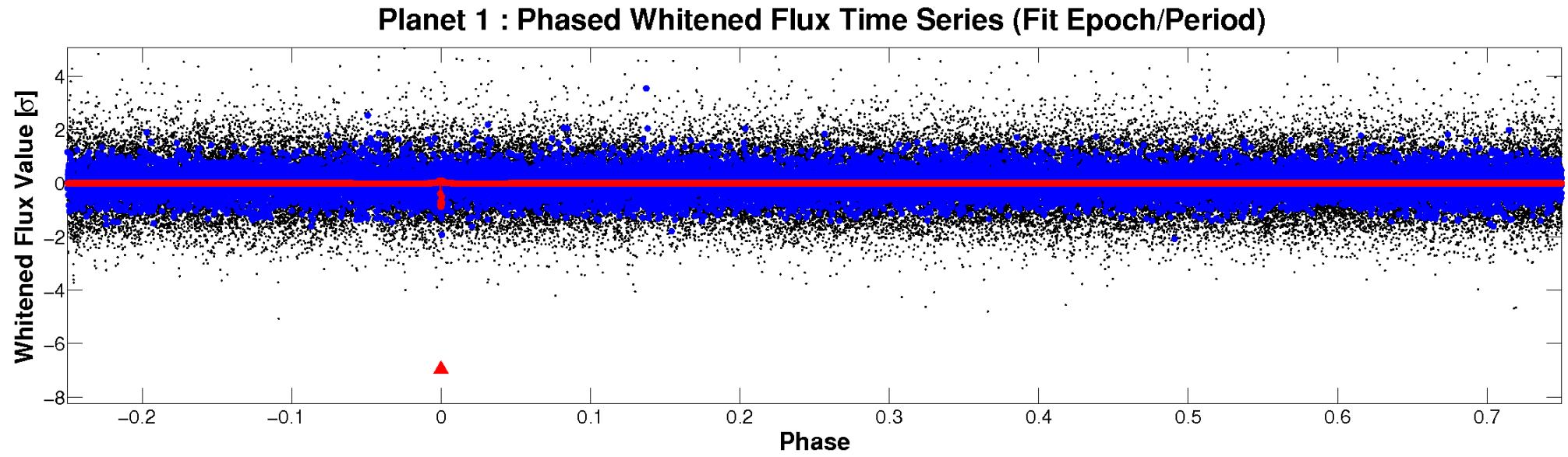
DV Odd/Even


TCE 010264871-01
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
Flux
-0.002
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
0.002
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 010264871-01
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
Flux
-0.002
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
0.002
Phase
Odd
Even
Model Fit

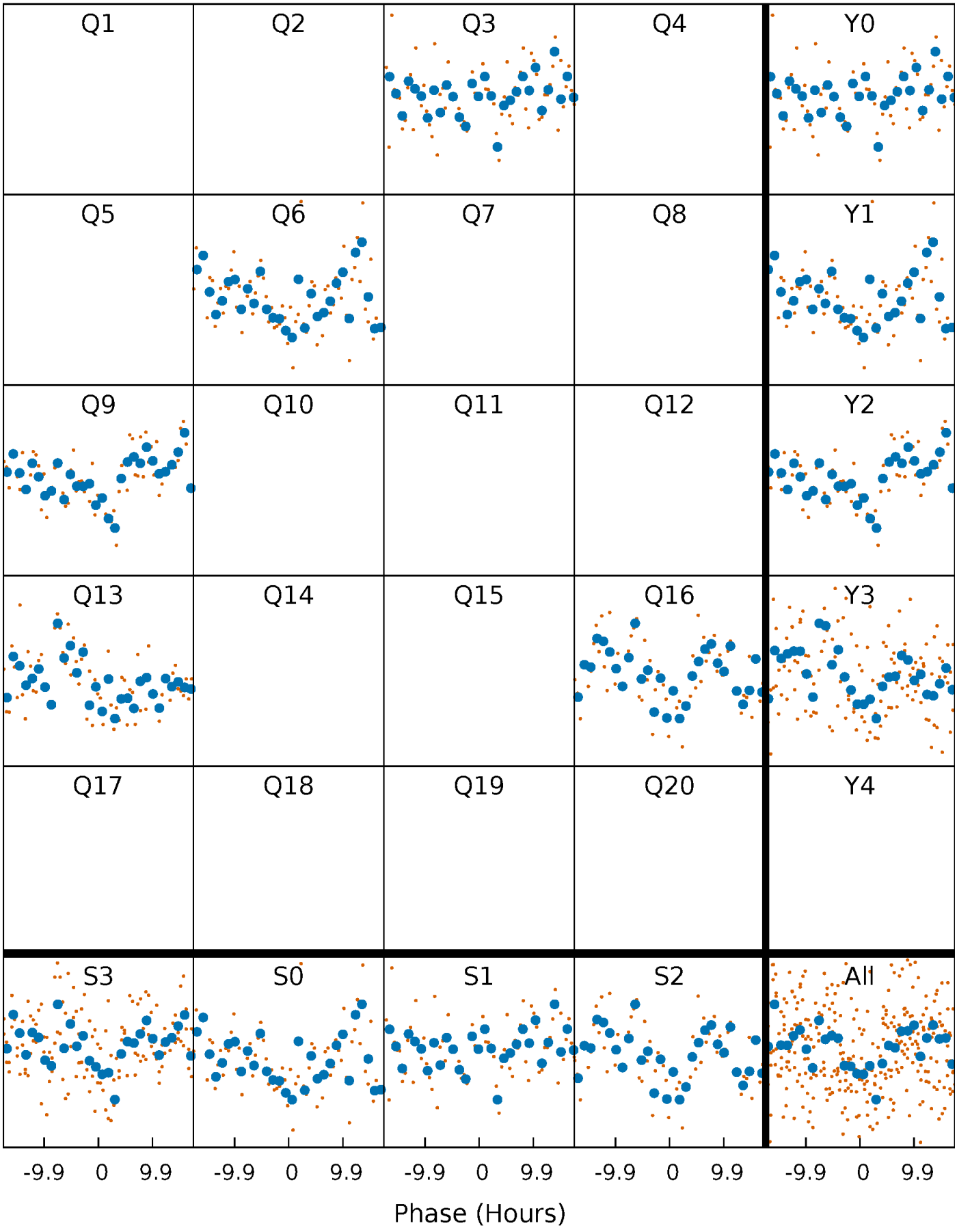
Non-Whitened Vs. Whitened Light Curve





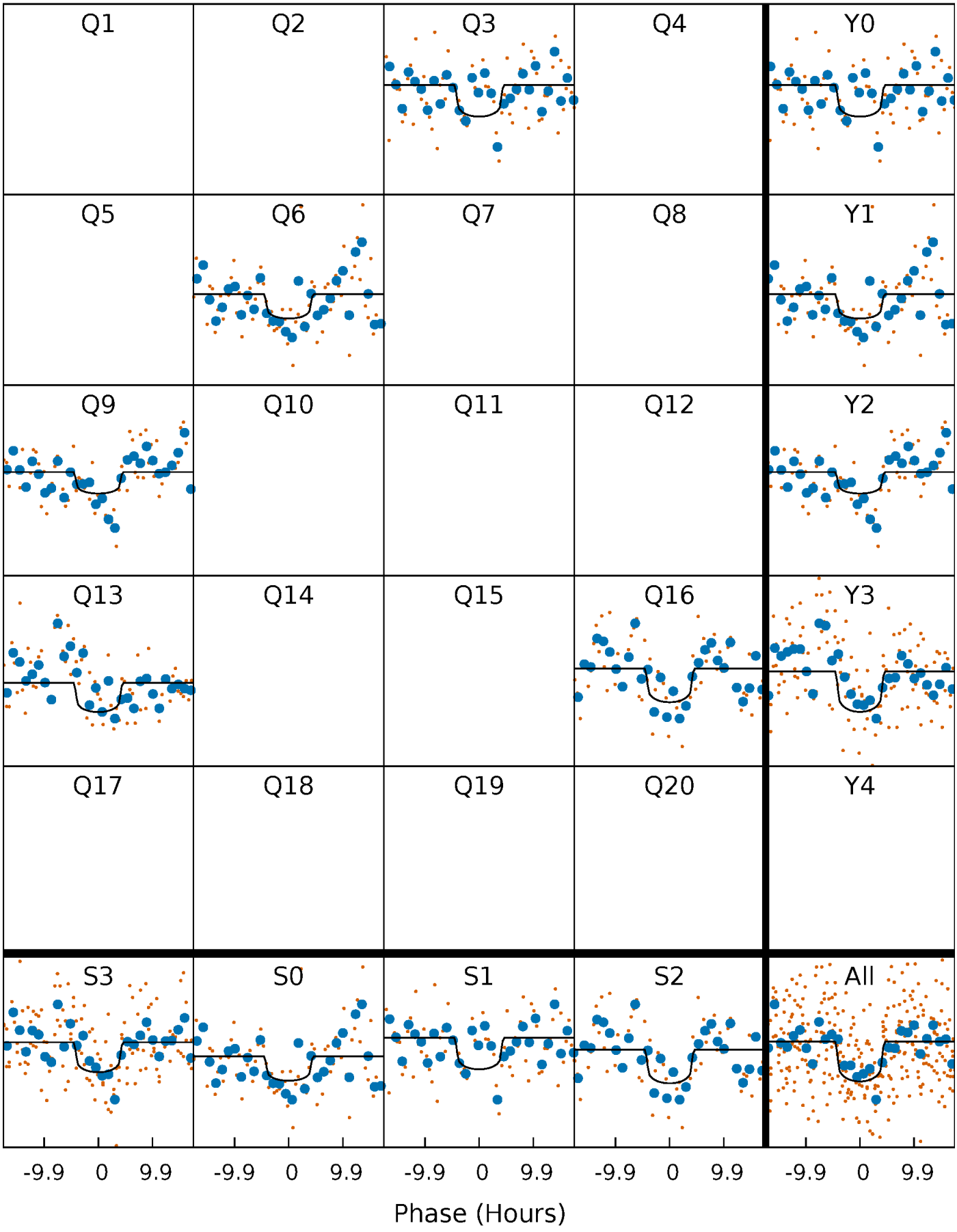
PDC Quarter-Phased Transit Curves

TCE 010264871-01 P=293.261762 Days T_0=378.767510 (BKJD)



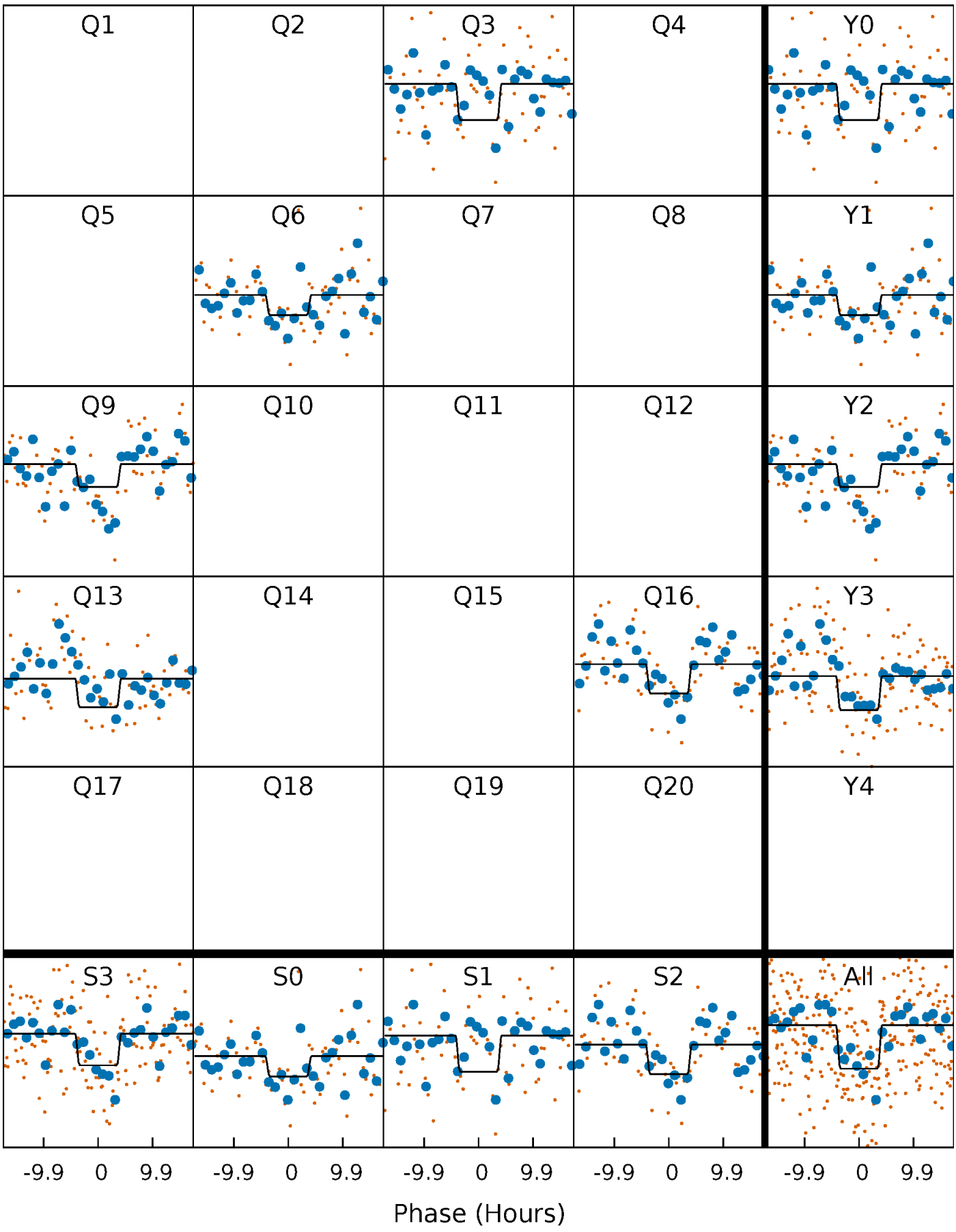
DV Quarter-Phased Transit Curves

TCE 010264871-01 P=293.261762 Days T_0=378.767510 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

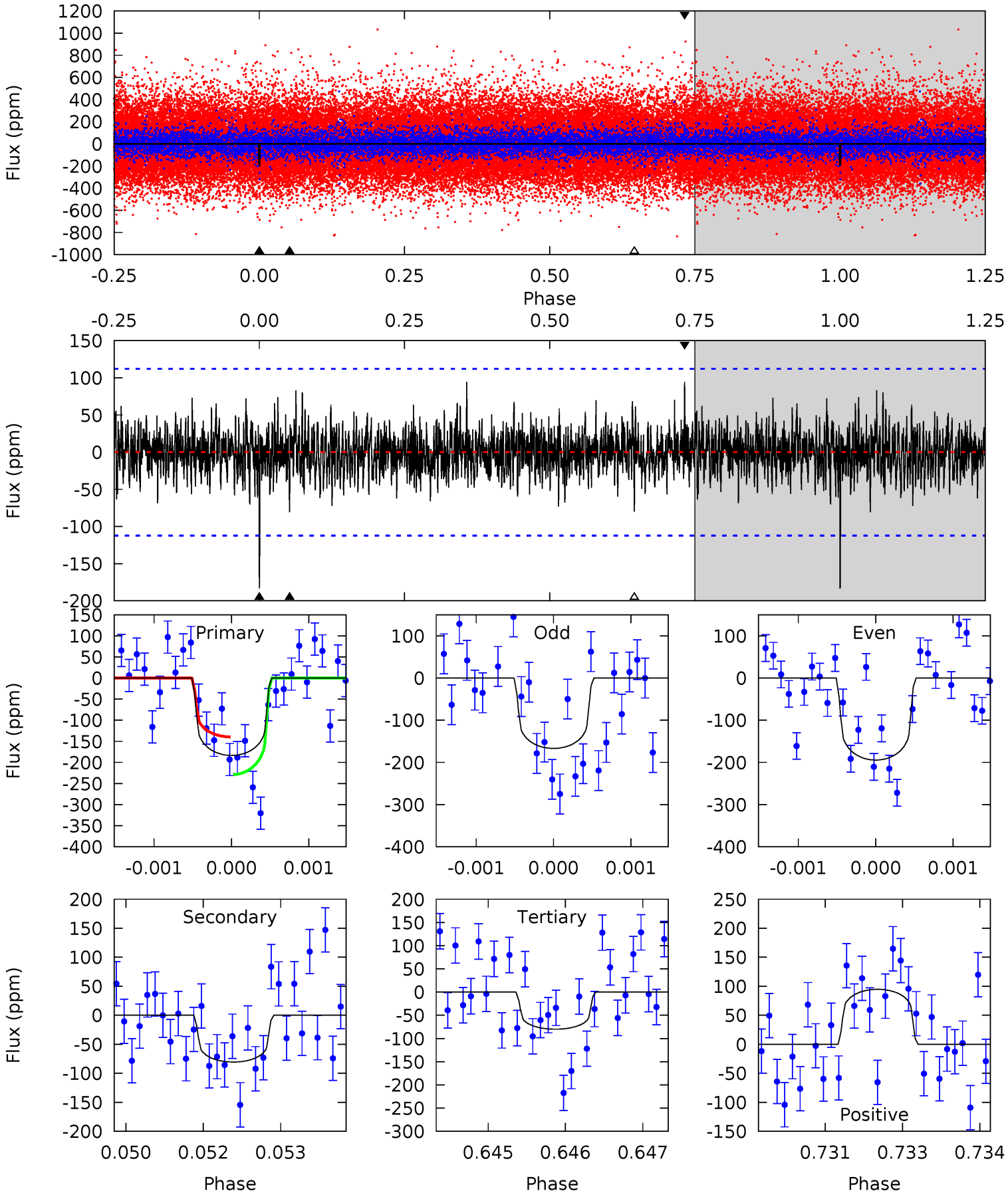
TCE 010264871-01 P=293.255642 Days T_0=378.791449 (BKJD)



DV Model-Shift Uniqueness Test

010264871-01, P = 293.261762 Days, E = 85.505748 Days

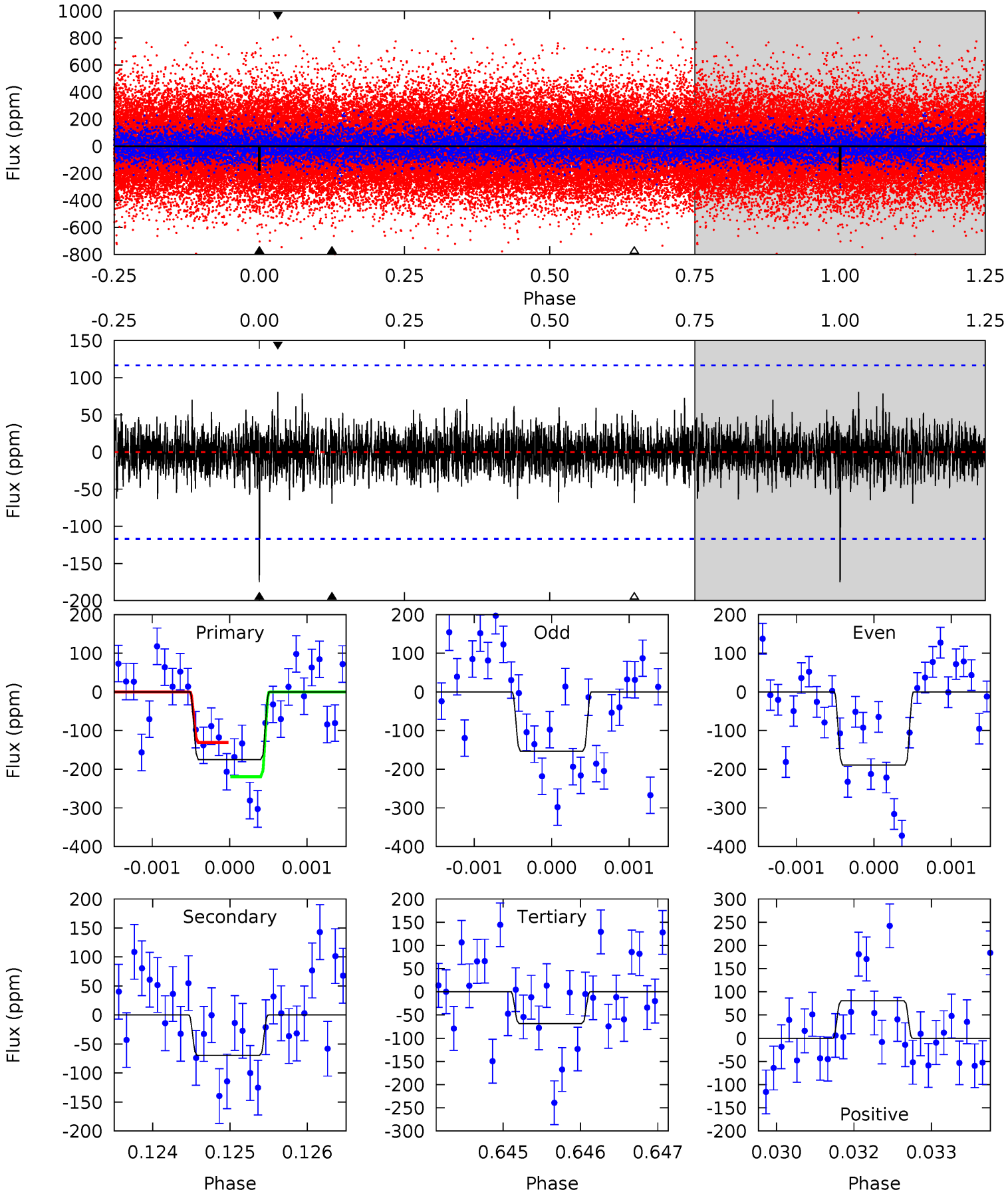
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.85	3.89	3.85	4.57	5.41	3.23	1.10	4.99	4.28	0.03	-0.68	0.65	0.86	0.34	2.16



Alt Model-Shift Uniqueness Test

010264871-01, P = 293.255642 Days, E = 85.535807 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.14	3.24	3.19	3.77	5.42	3.25	0.89	4.96	4.38	0.05	-0.53	0.82	0.95	0.32	2.06



Stellar Parameters For KIC 010264871

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6029^{+162}_{-198}	$4.494^{+0.052}_{-0.208}$	$-0.100^{+0.250}_{-0.350}$	$0.956^{+0.300}_{-0.100}$	$1.040^{+0.126}_{-0.139}$	$1.675^{+0.363}_{-0.877}$
	+3%/-3%	+1%/-5%	+250%/-350%	+31%/-10%	+12%/-13%	+22%/-52%
Source	PHO1	KIC0	KIC0	DSEP		

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

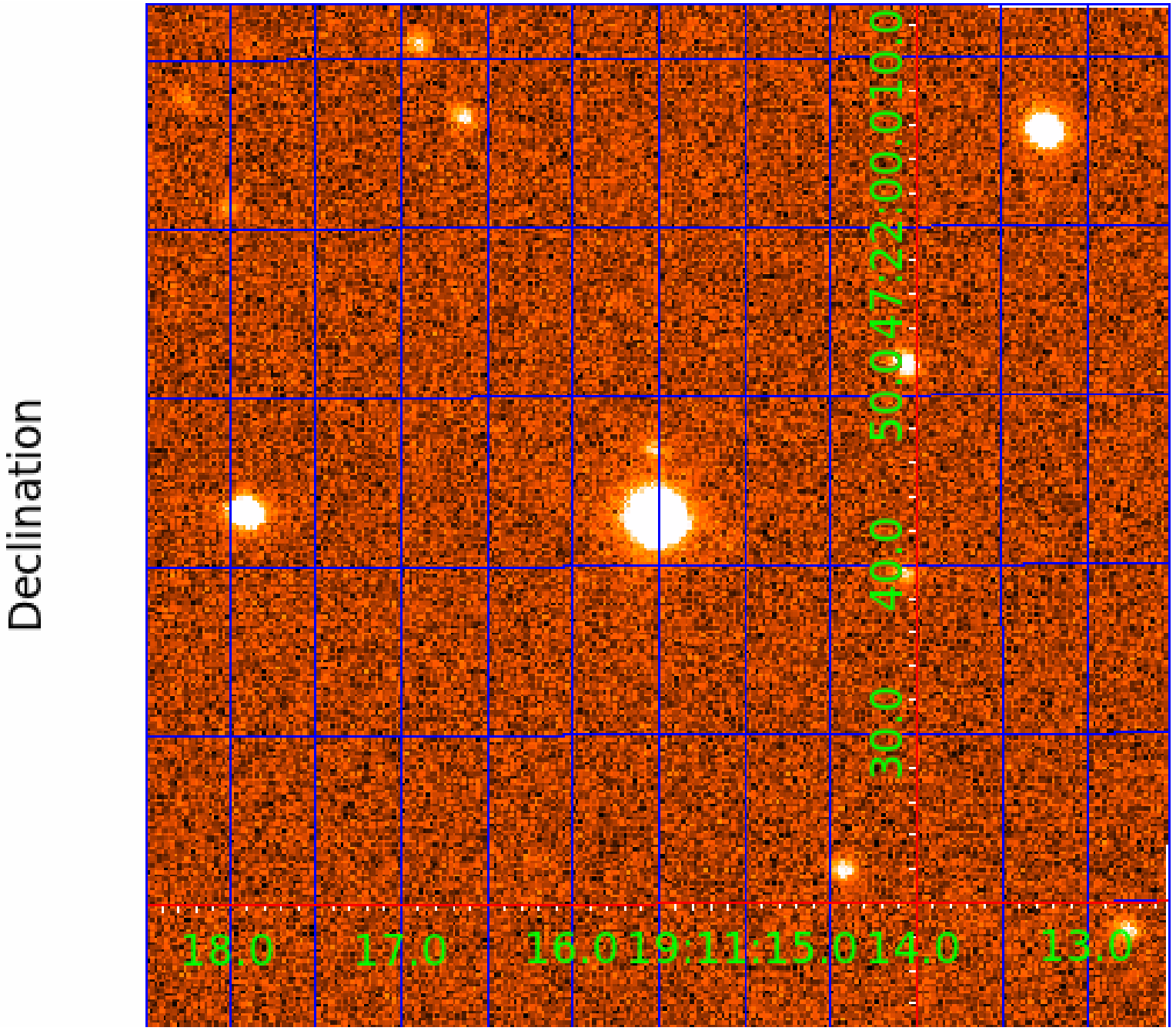
Secondary Eclipse Parameters for KIC 010264871-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-81±21	$1.58^{+0.81}_{-0.73}$	398^{+26}_{-19}	4811^{+1617}_{-708}	12779^{+31421}_{-7148}
Alt.	-70±21	$1.43^{+0.78}_{-0.69}$	395^{+29}_{-18}	4859^{+1752}_{-763}	14086^{+34791}_{-8922}

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 $A_{obs} \gg 1.0$

UKIRT Image


Declination
50.0
47.22.00.0
10.0
40.0
30.0
18.0
17.0
16.0
19:11:15.0
14.0
13.0