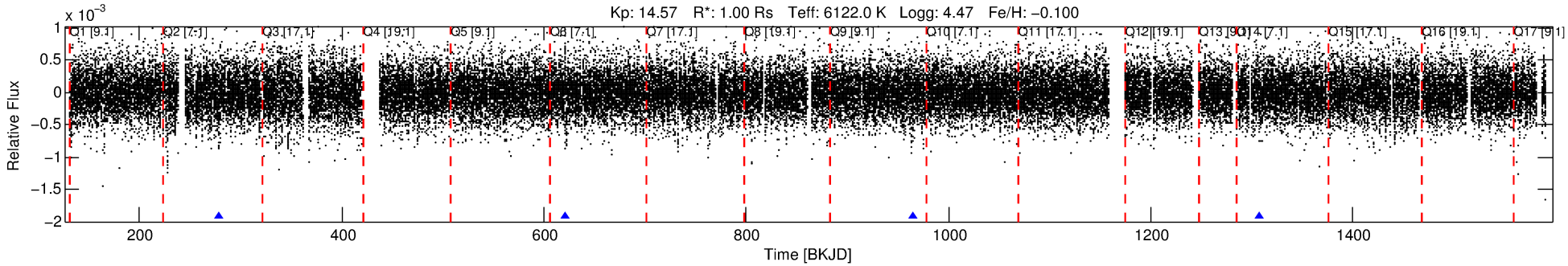
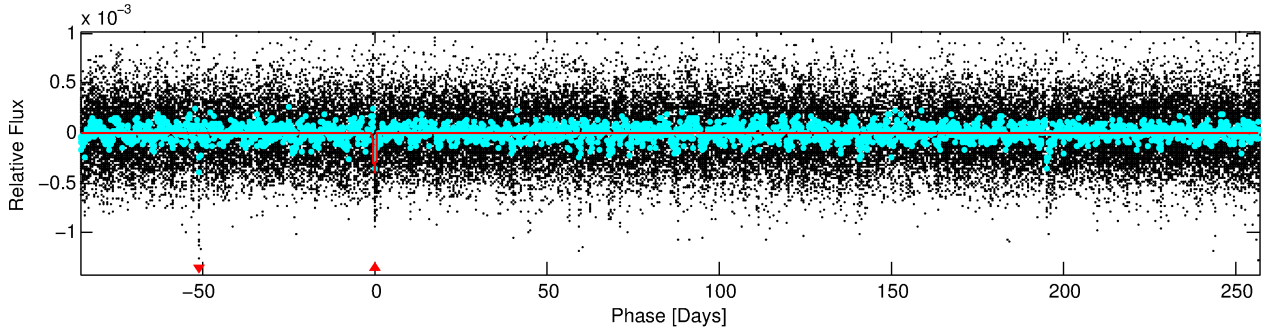
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

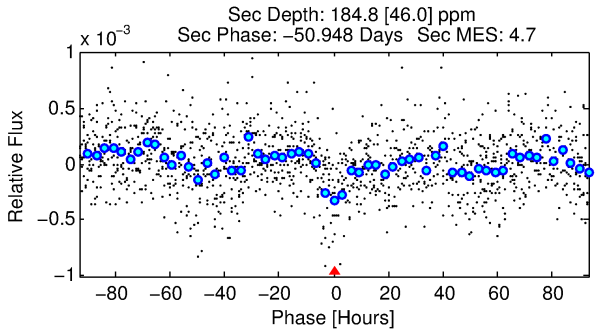
DV One-Page Summary

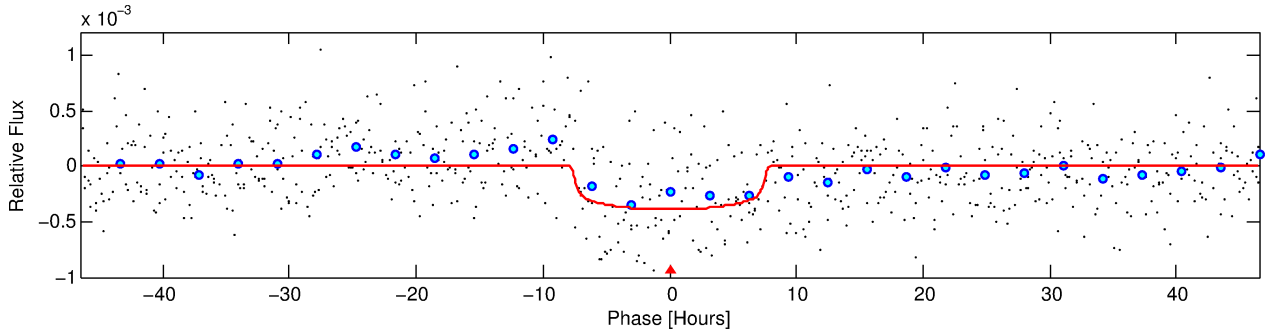
KIC: 5950539 Candidate: 1 of 1 Period: 342.471 d

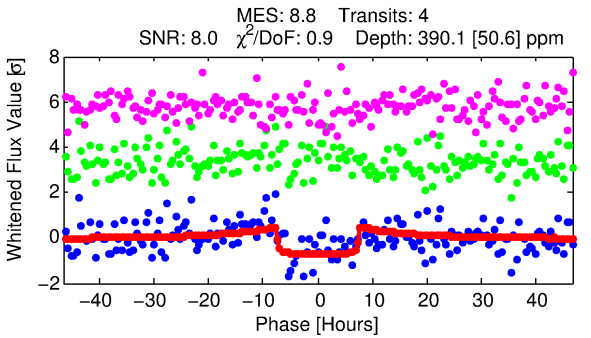
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

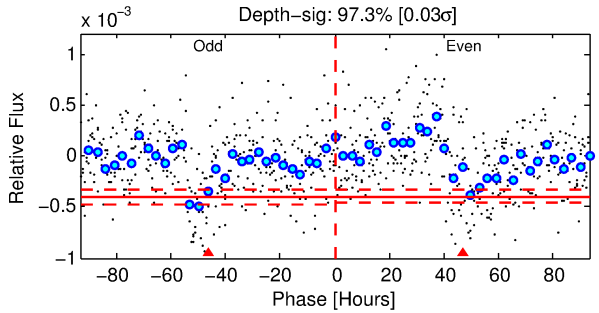












DV Fit Results:

Period = 342.47101 [0.00915] d
Epoch = 279.3113 [0.0173] BKJD
Rp/R* = 0.0192 [0.0060]
a/R* = 128.76 [190.60]
b = 0.68 [1.20]

Seff = 1.30 [0.50]
Teq = 272 [26] K
Rp = 2.09 [0.90] Re
a = 0.9801 [0.2457] AU

Ag = 22391.72 [17081.46] [1.31σ]
Teffp = 5149 [877] K [5.56σ]

DV Diagnostic Results:

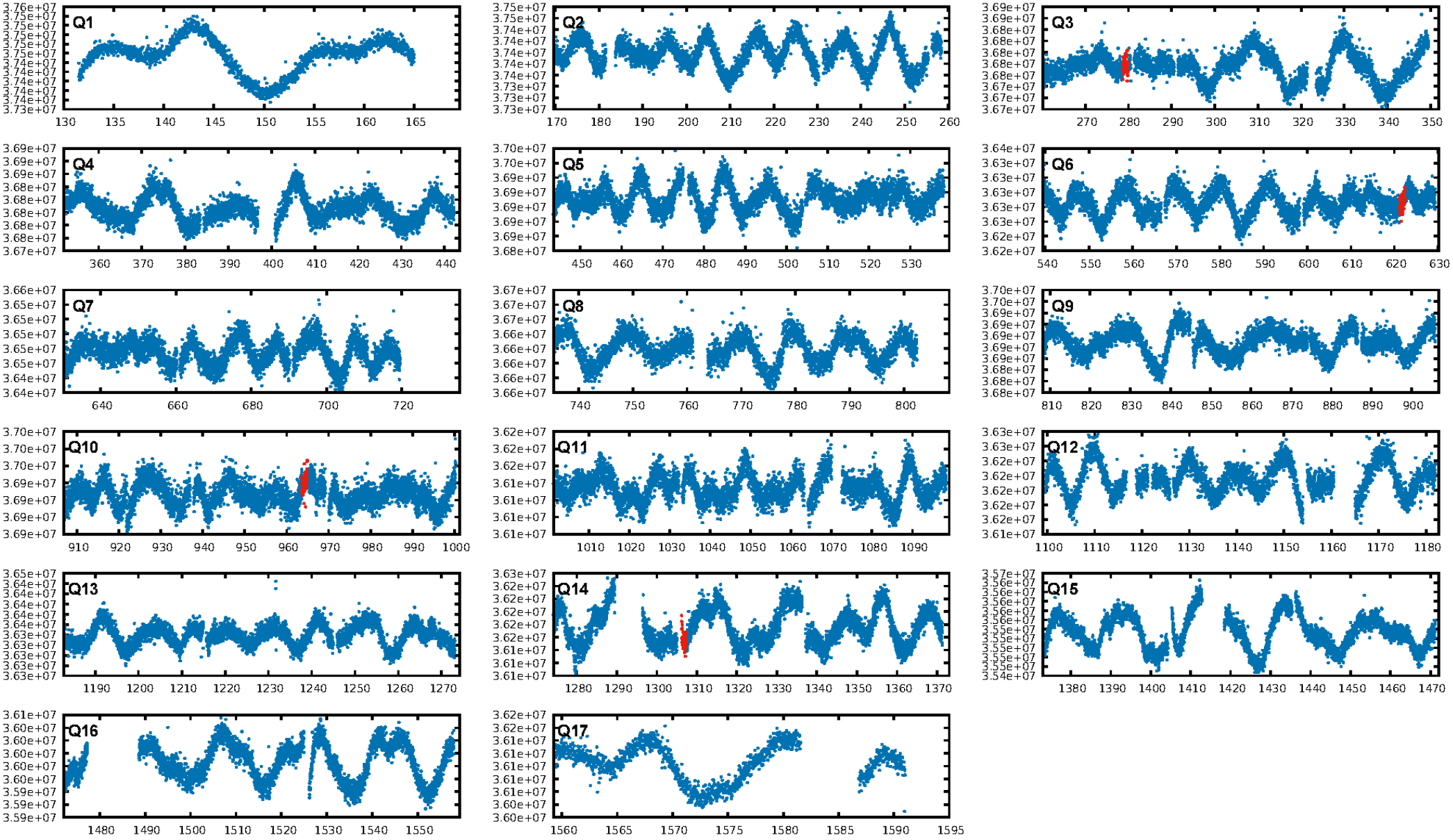
ShortPeriod−sig: N/A
LongPeriod−sig: N/A
ModelChiSquare2−sig: 0.1%
ModelChiSquareGof−sig: 98.5%
Bootstrap−pfa: 1.06e−09
RollingBand−fgt: N/A
GhostDiagnostic−chr: N/A

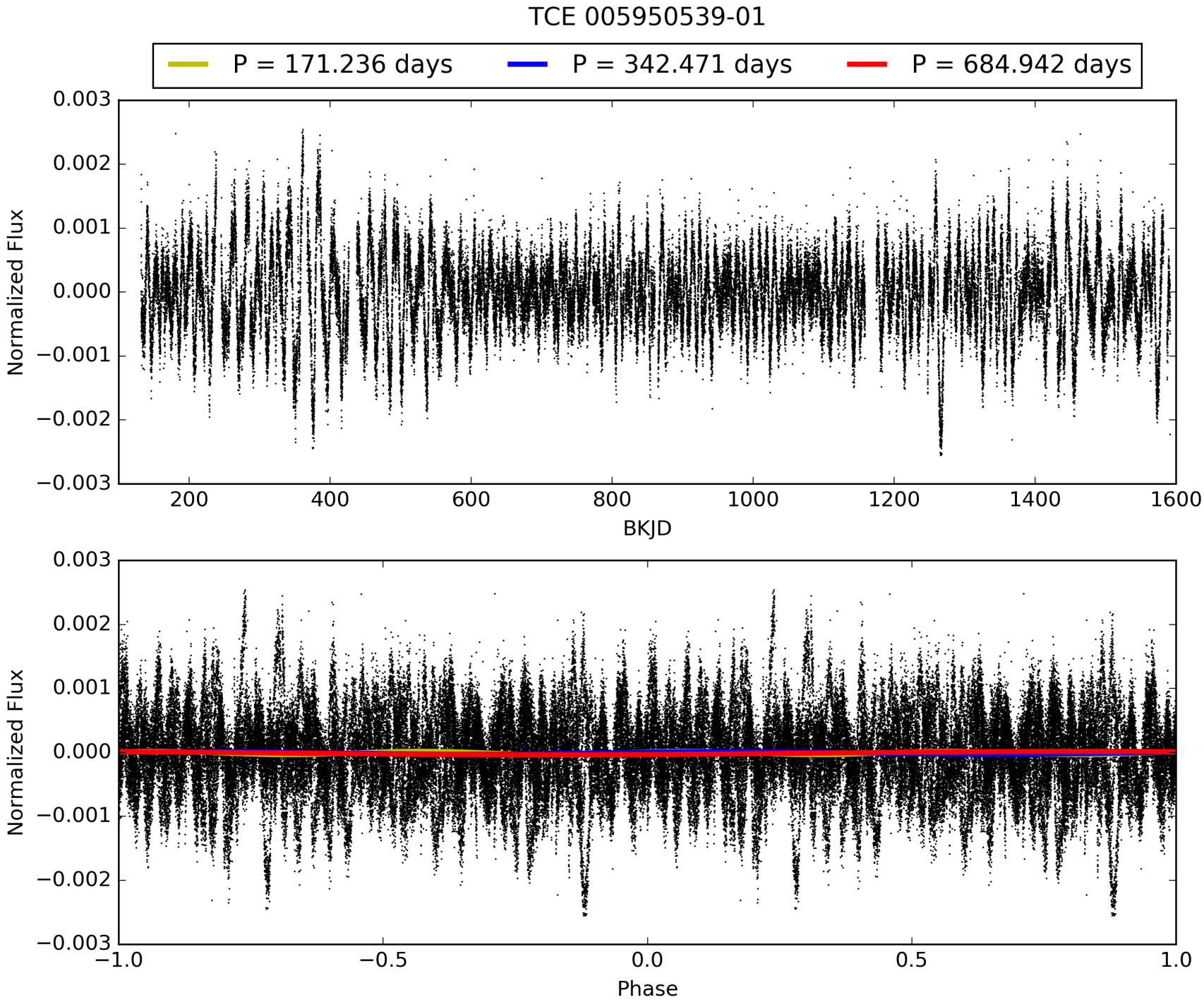
Centroid−sig: N/A
Centroid−so: N/A
OotOffset−rm: N/A
KicOffset−rm: N/A
OotOffset−st: 0/0/0/0 [0]
KicOffset−st: 0/0/0/0 [0]
DiffImageQuality−fgm: N/A
DiffImageOverlap−fno: N/A

Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop−2602@61285 −− Date Generated: 04−Jun−2016 05:46:05 Z

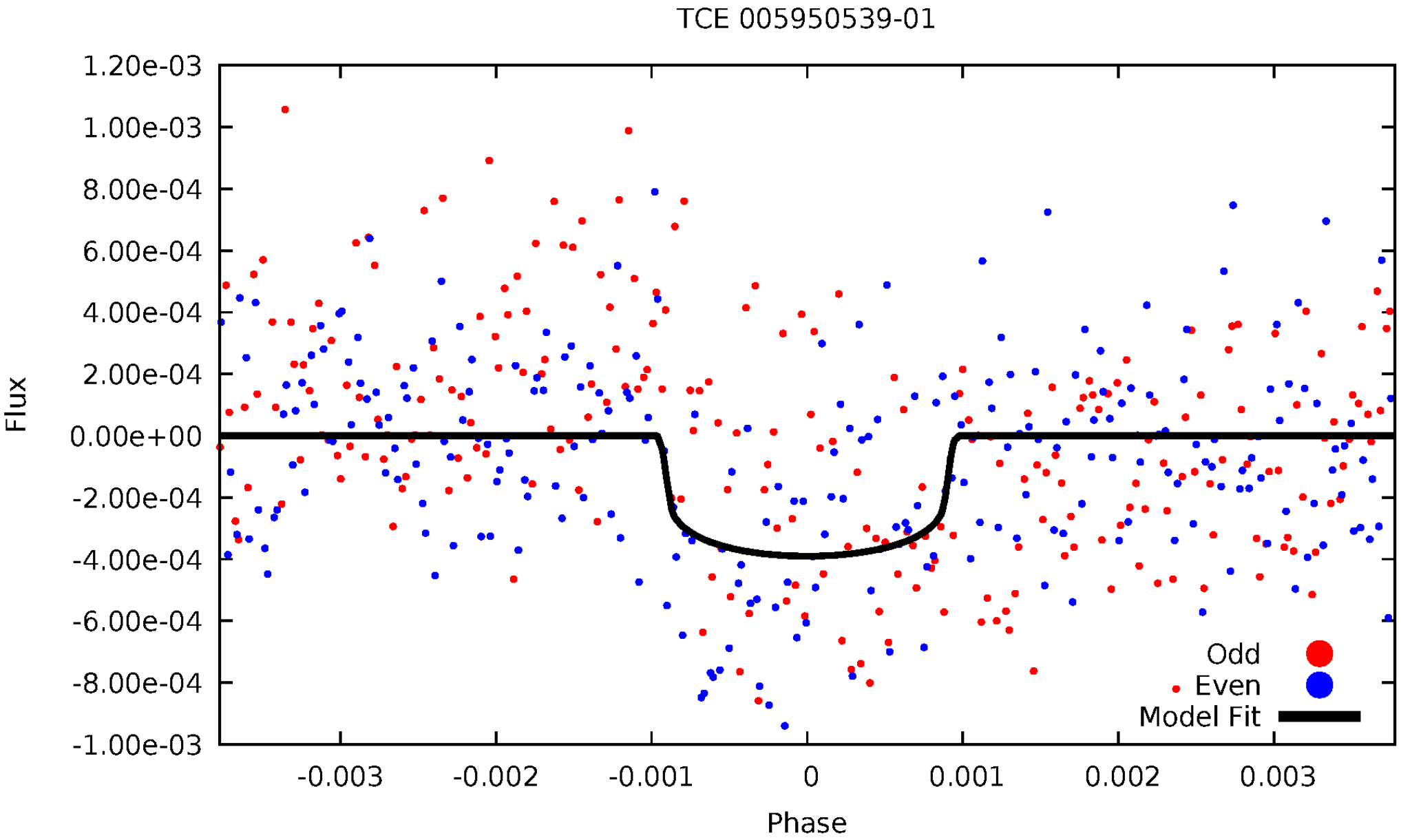
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

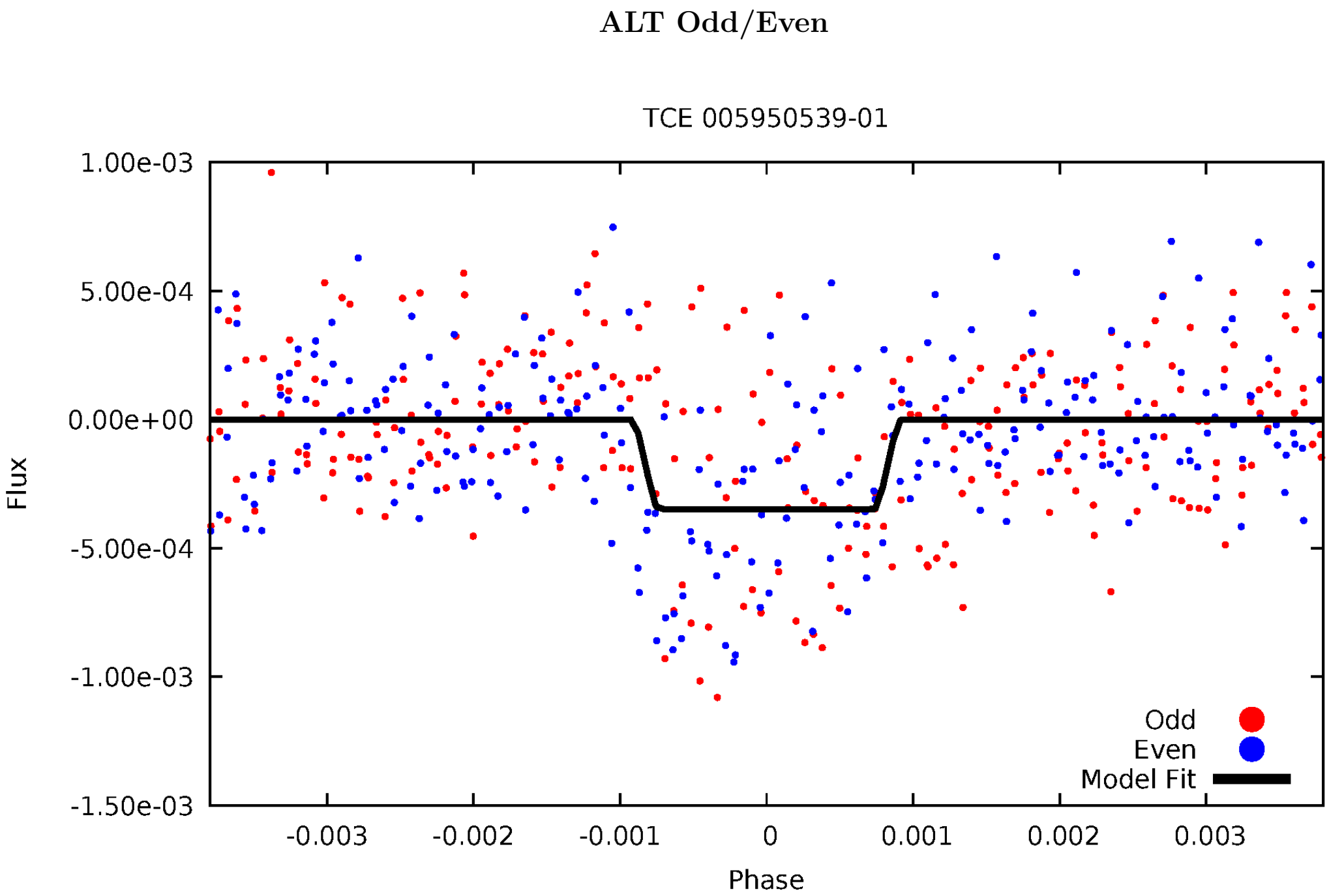
TCE 005950539-01, PDC Light Curves



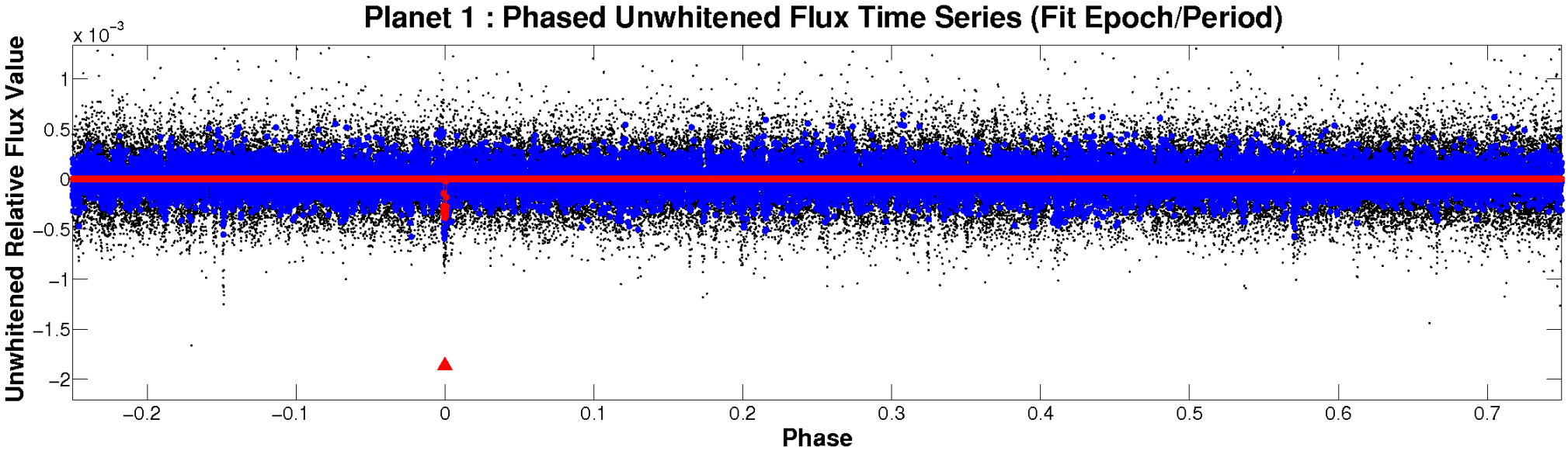

TCE 005950539-01
P = 171.236 days
P = 342.471 days
P = 684.942 days
Normalized Flux
BKJD
Normalized Flux
Phase

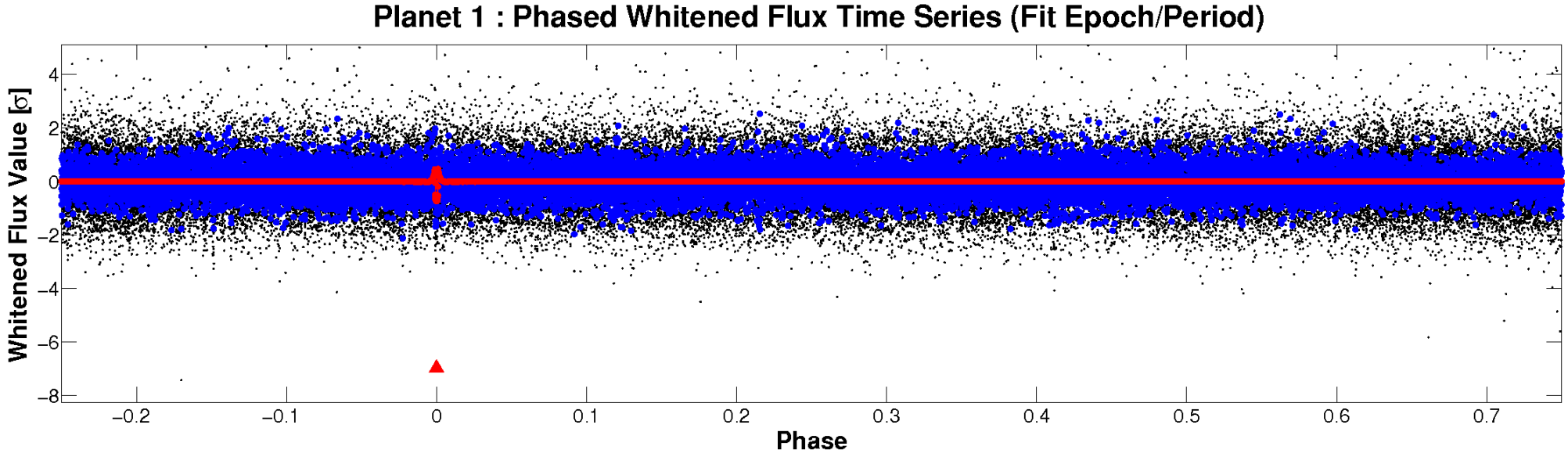
DV Odd/Even


TCE 005950539-01
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
-0.003
-0.002
-0.001
0
0.001
0.002
0.003
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 005950539-01
1.00e-03
5.00e-04
0.00e+00
-5.00e-04
-1.00e-03
-1.50e-03
Flux
-0.003
-0.002
-0.001
0
0.001
0.002
0.003
Phase
Odd
Even
Model Fit

Non-Whitened Vs. Whitened Light Curve





PDC Quarter-Phased Transit Curves

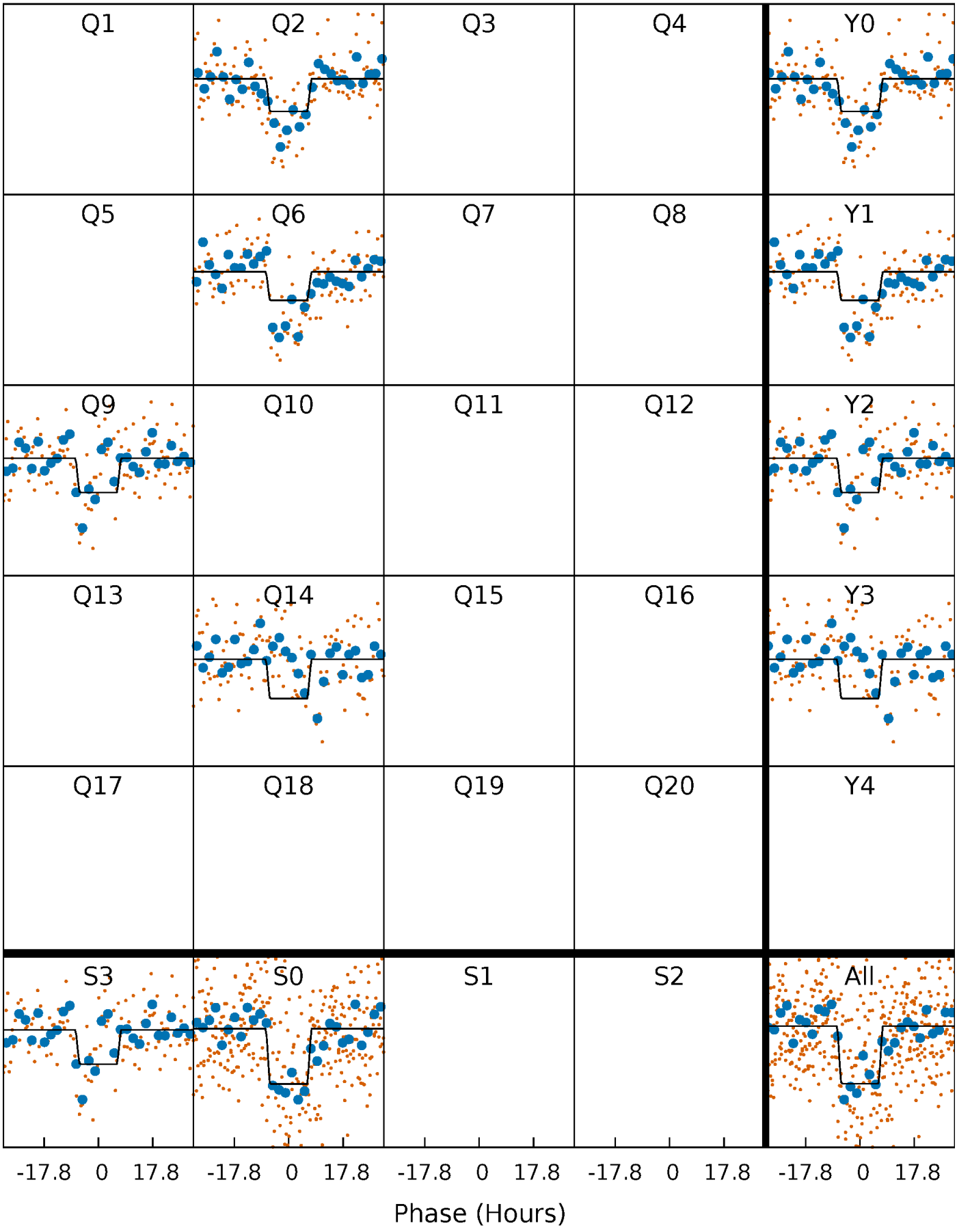
TCE 005950539-01 P=342.471010 Days T_0=279.311326 (BKJD)

DV Quarter-Phased Transit Curves

TCE 005950539-01 P=342.471010 Days T_0=279.311326 (BKJD)

Alt. Detrend Quarter-Phased Transit Curves

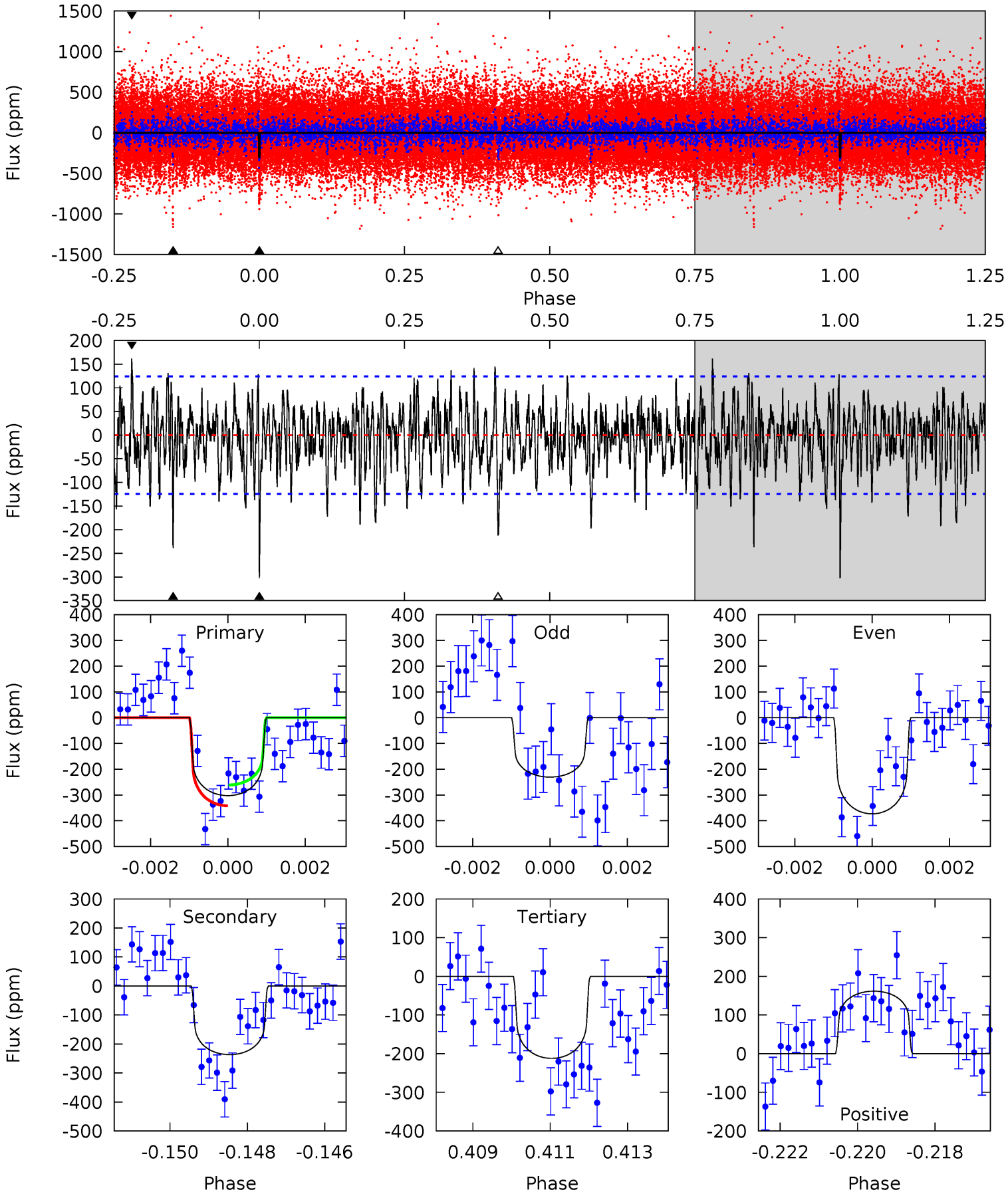
TCE 005950539-01 P=342.486899 Days T_0=279.303144 (BKJD)



DV Model-Shift Uniqueness Test

005950539-01, P = 342.471010 Days, E = 279.311326 Days

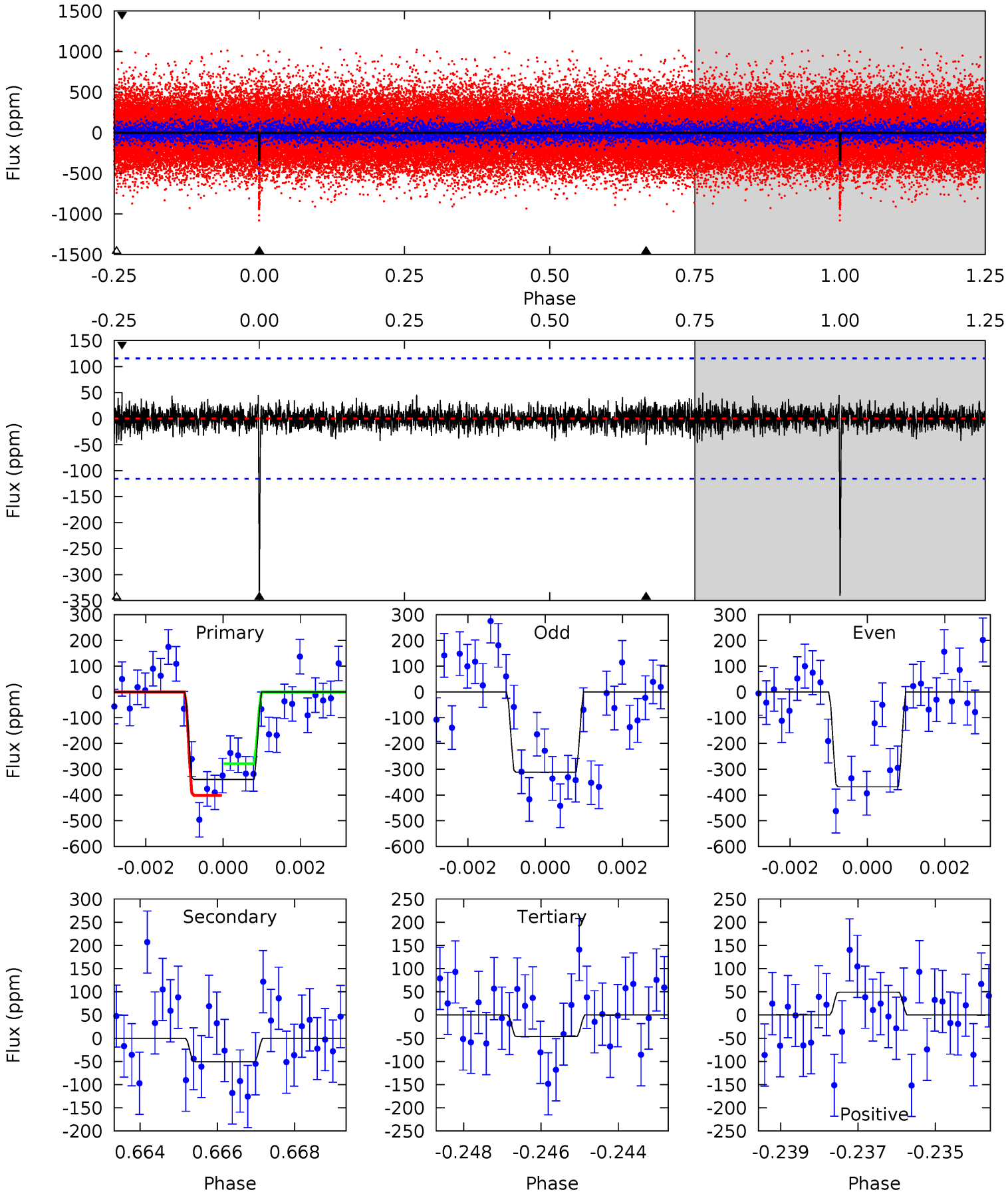
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	10.1	9.10	6.93	5.33	3.10	2.34	3.88	6.04	1.05	3.22	3.06	0.83	0.35	1.72



Alt Model-Shift Uniqueness Test

005950539-01, P = 342.486899 Days, E = 279.303144 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.7	2.33	2.14	2.27	5.34	3.11	0.58	13.6	13.4	0.19	0.07	1.31	0.92	0.13	2.84



Stellar Parameters For KIC 005950539

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	6122^{+171}_{-192}	$4.471^{+0.050}_{-0.200}$	$-0.100^{+0.250}_{-0.350}$	$0.996^{+0.296}_{-0.118}$	$1.070^{+0.133}_{-0.148}$	$1.526^{+0.412}_{-0.786}$
	+3%/-3%	+1%/-4%	+250%/-350%	+30%/-12%	+12%/-14%	+27%/-52%
Source	PHO1	KIC0	KIC0	DSEP		

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

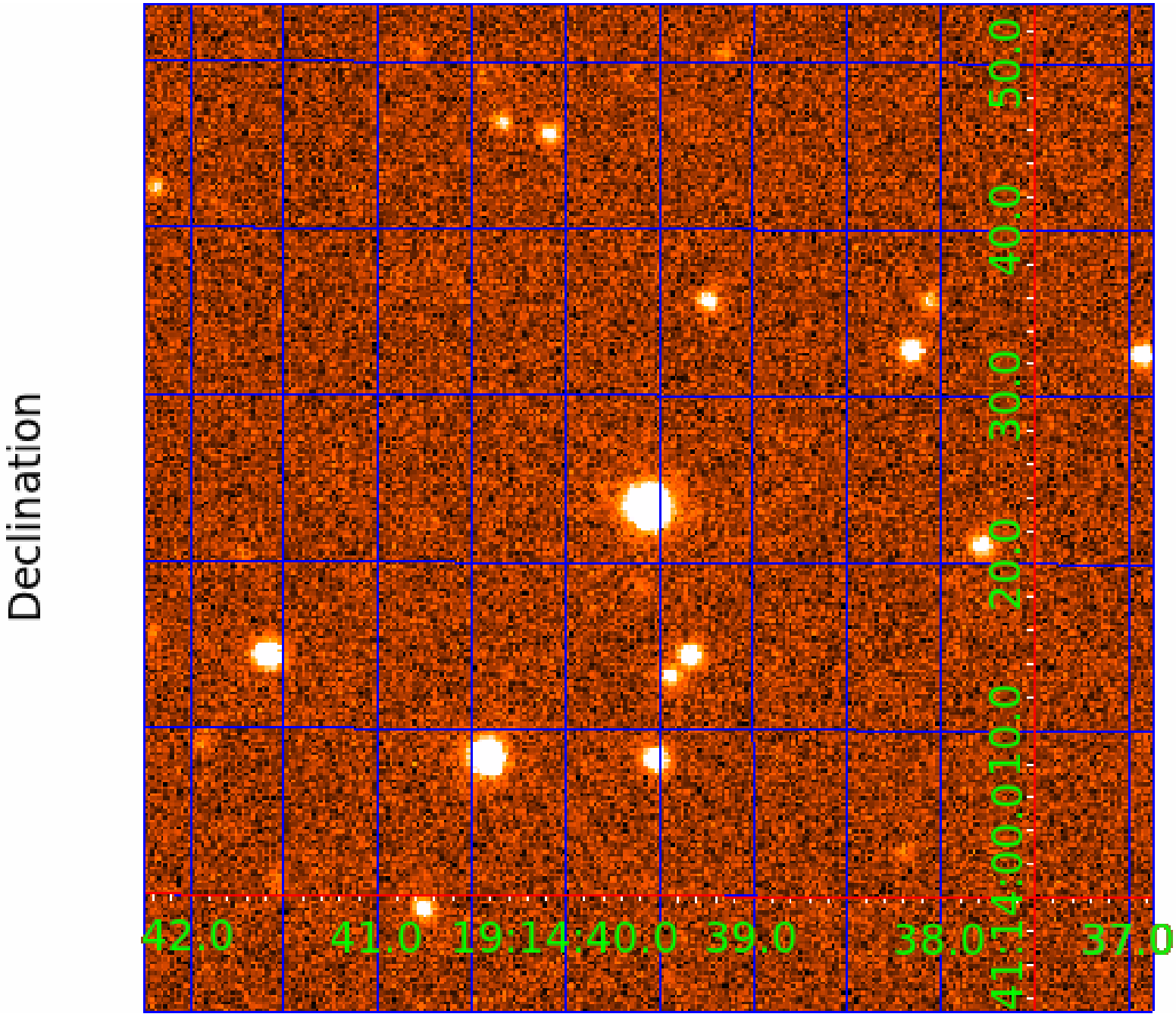
Secondary Eclipse Parameters for KIC 005950539-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-237±23	$2.22^{+0.71}_{-0.69}$	390^{+26}_{-18}	5482^{+1072}_{-622}	24399^{+27370}_{-10545}
Alt.	-51±22	$2.09^{+0.70}_{-0.69}$	390^{+25}_{-19}	4093^{+727}_{-510}	5781^{+8400}_{-3218}

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
42.0
41.0
19:14:40.0
39.0
38.0
37.0
50.0
40.0
30.0
20.0
10.0
41:14:00.0