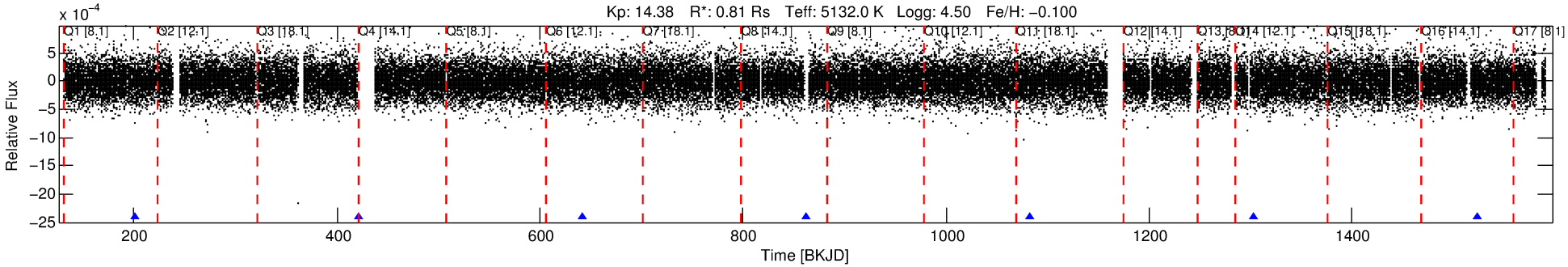
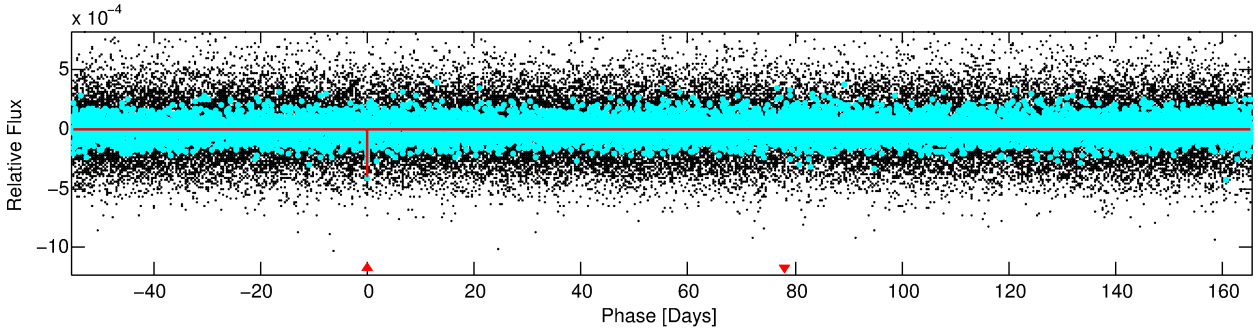
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

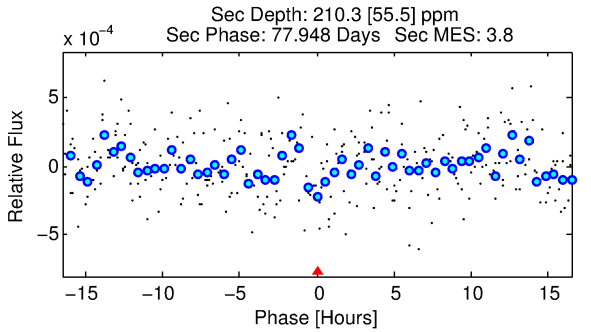
DV One-Page Summary

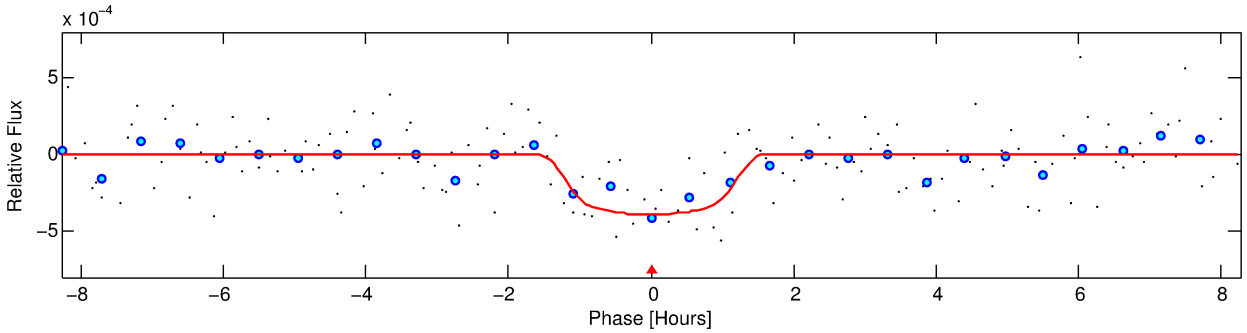
KIC: 8289501 Candidate: 1 of 1 Period: 220.429 d

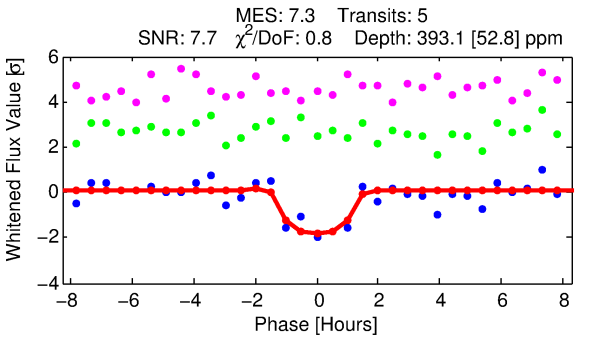
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

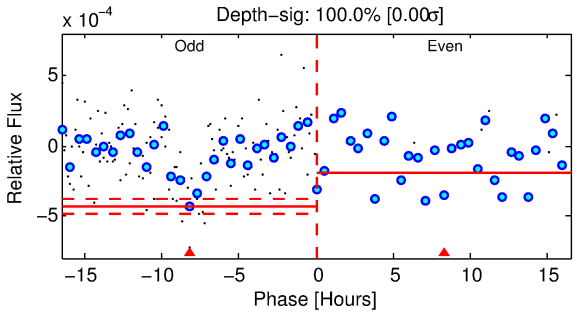












DV Fit Results:

Period = 220.42910 [0.00183] d
Epoch = 201.0902 [0.0080] BKJD
Rp/R* = 0.0220 [0.0139]
a/R* = 295.60 [746.54]
b = 0.90 [0.55]

Seff = 0.95 [0.18]
Teq = 252 [12] K
Rp = 1.94 [1.25] Re
a = 0.6519 [0.0636] AU

Ag = 13028.43 [16945.42] [0.77σ]
Teffp = 4164 [1351] K [2.90σ]

DV Diagnostic Results:

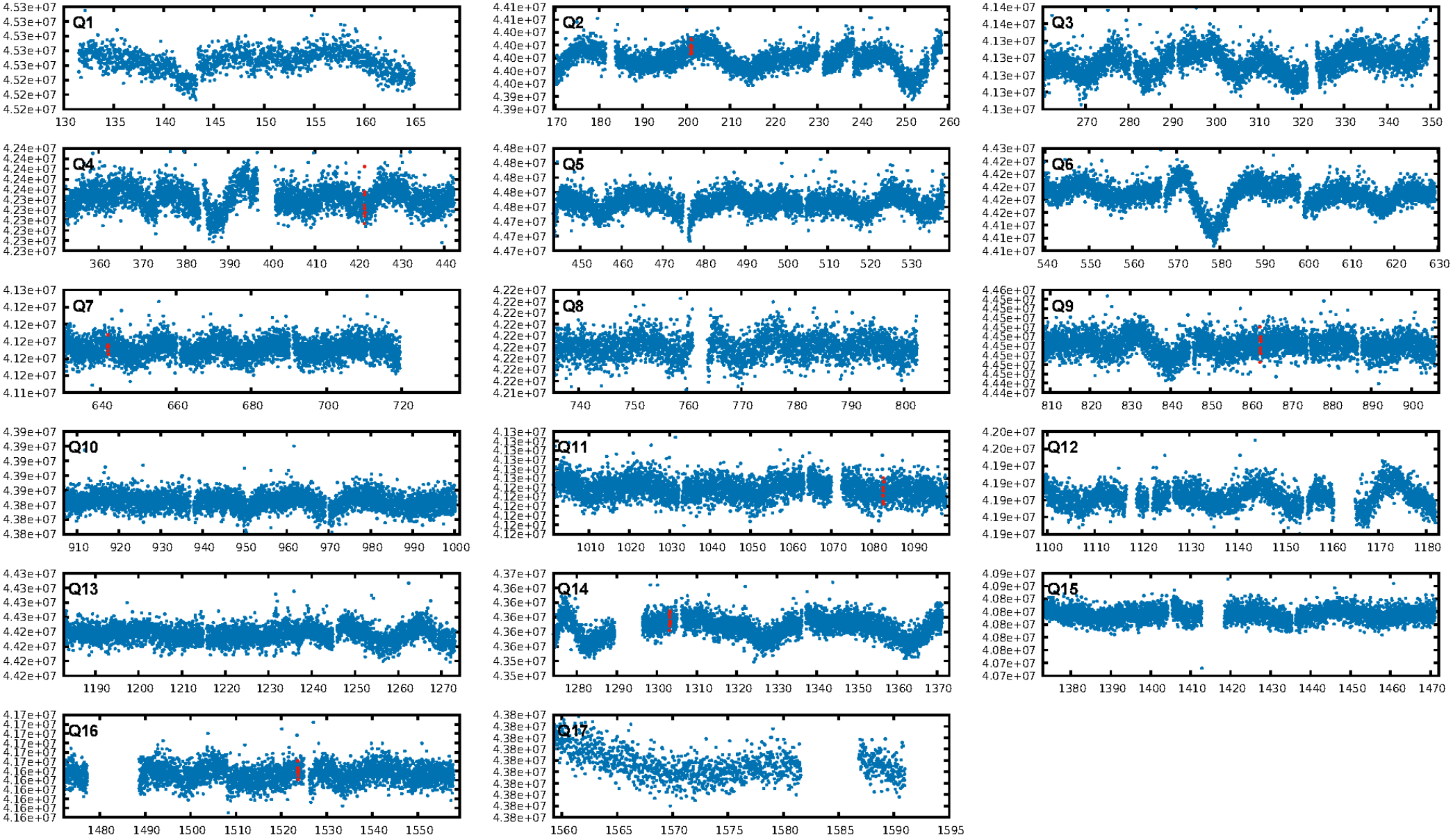
ShortPeriod−sig: N/A
LongPeriod−sig: N/A
ModelChiSquare2−sig: 30.0%
ModelChiSquareGof−sig: 97.2%
Bootstrap−pfa: 5.14e−12
RollingBand−fgt: N/A
GhostDiagnostic−chr: N/A

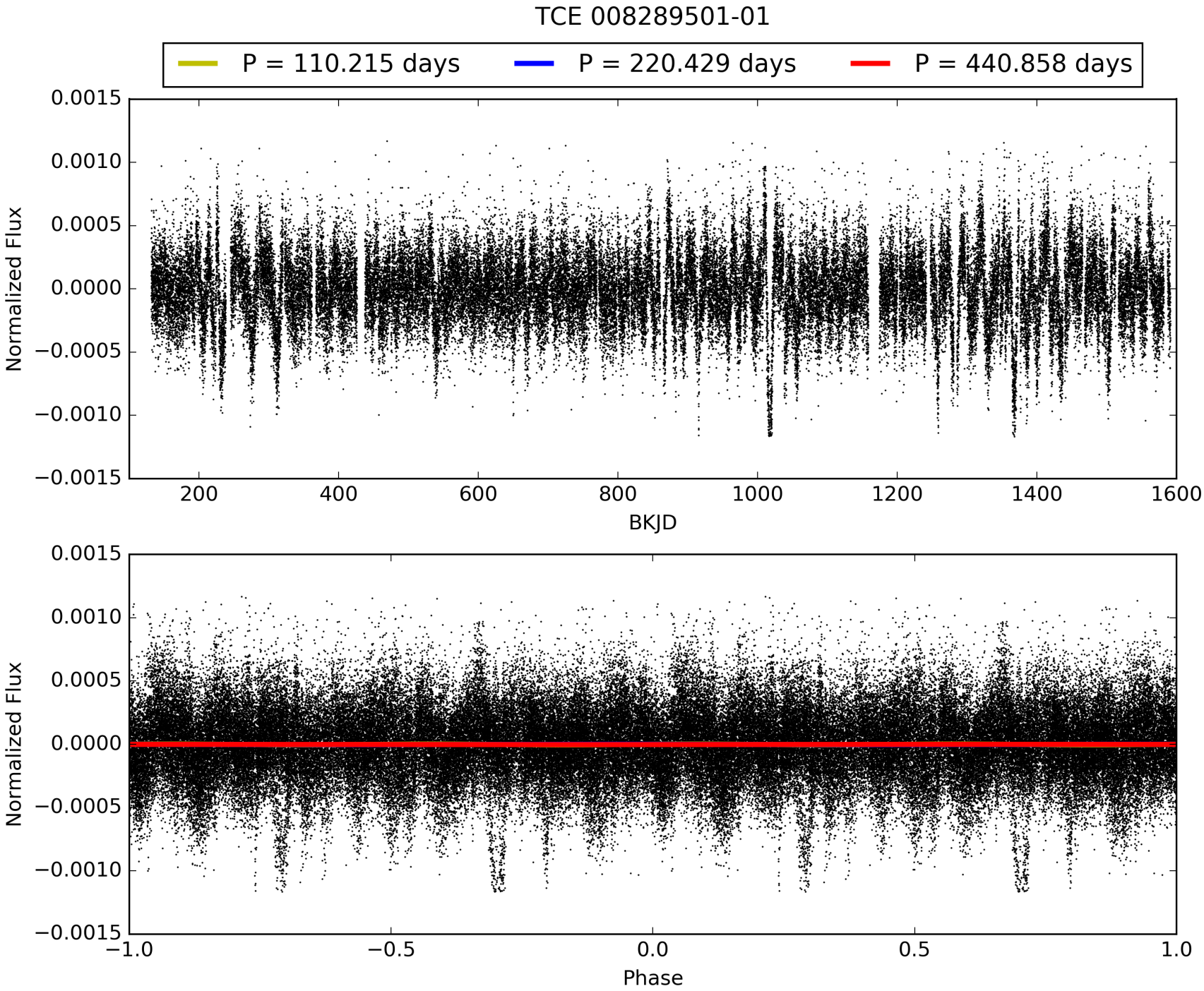
Centroid−sig: N/A
Centroid−so: N/A
OotOffset−rm: N/A
KicOffset−rm: N/A
OotOffset−st: 0/0/0/0 [0]
KicOffset−st: 0/0/0/0 [0]
DiffImageQuality−fgm: N/A
DiffImageOverlap−fno: N/A

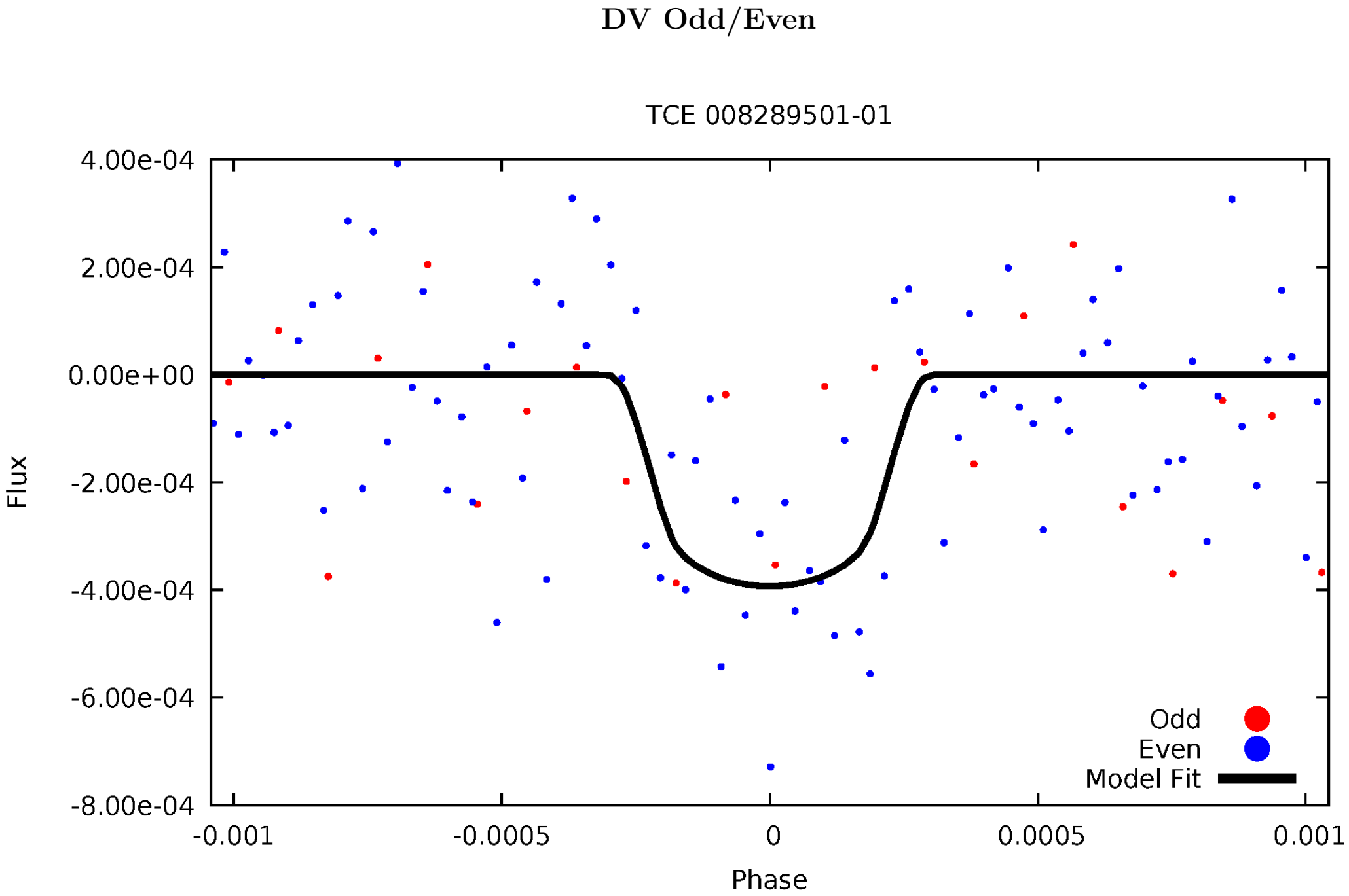
Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop−2602@61285 −− Date Generated: 05−Jun−2016 02:25:56 Z

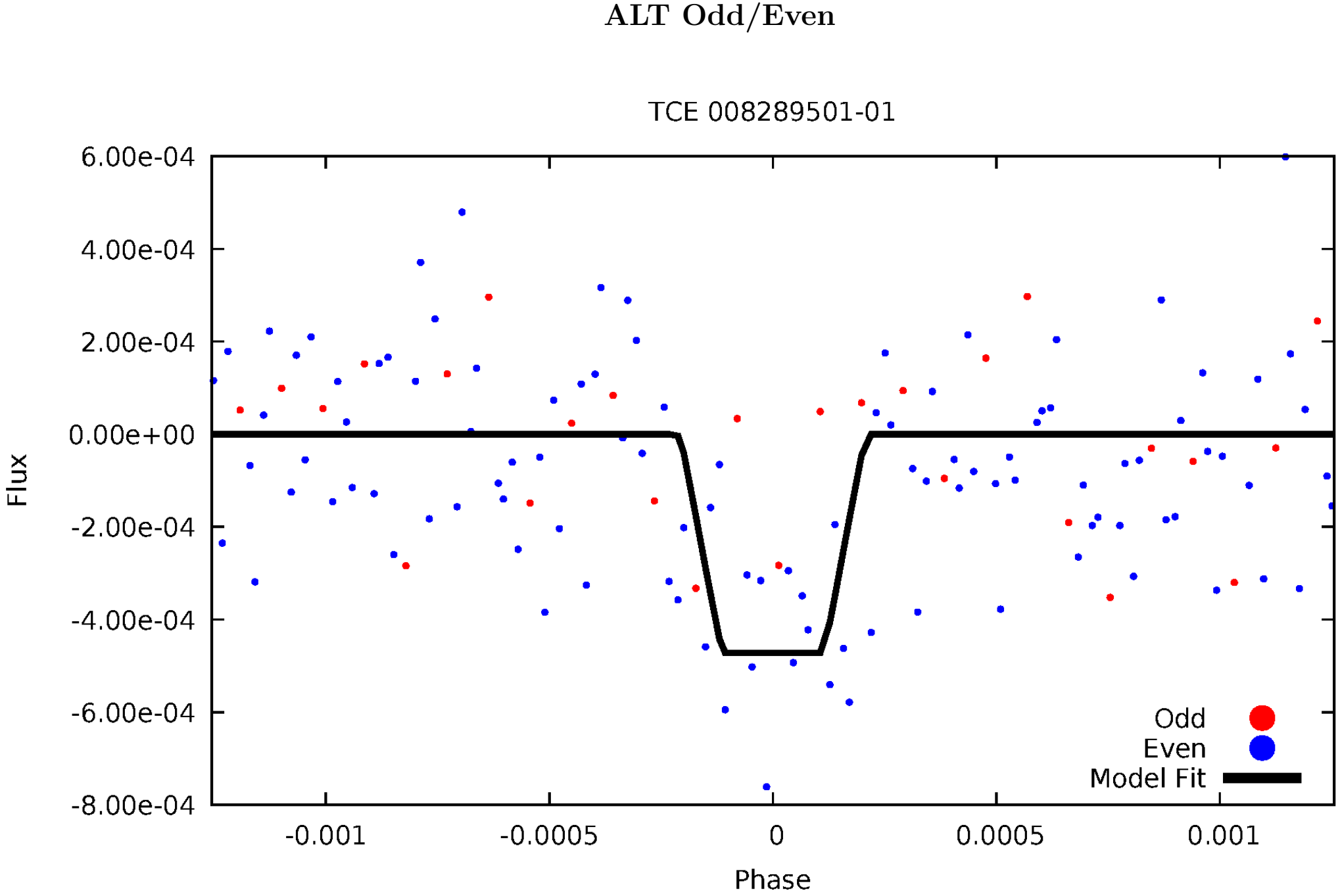
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008289501-01, PDC Light Curves

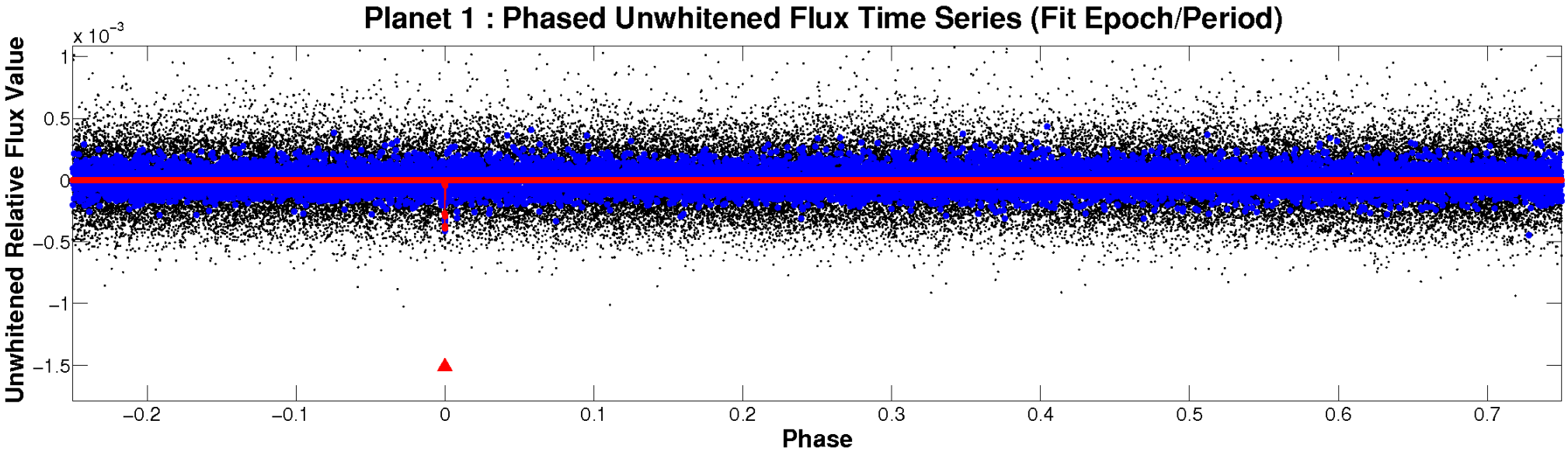


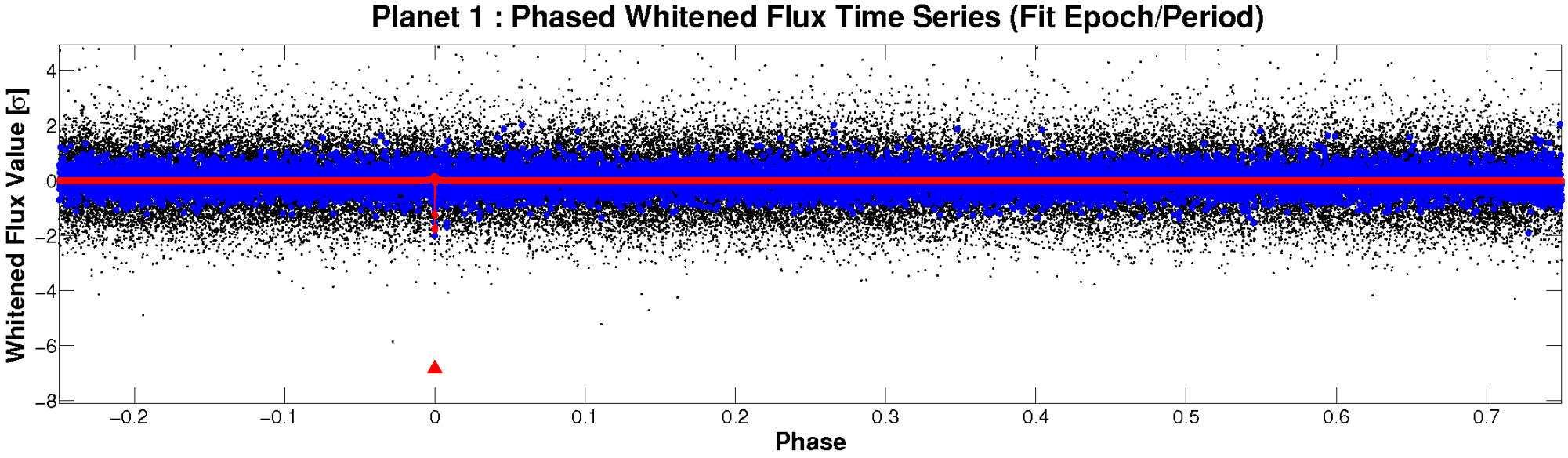

TCE 008289501-01
P = 110.215 days
P = 220.429 days
P = 440.858 days
Normalized Flux
0.0015
0.0010
0.0005
0.0000
−0.0005
−0.0010
−0.0015
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0015
0.0010
0.0005
0.0000
−0.0005
−0.0010
−0.0015
−1.0
−0.5
0.0
0.5
1.0
Phase


DV Odd/Even
TCE 008289501-01
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
-8.00e-04
Flux
-0.001
-0.0005
0
0.0005
0.001
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 008289501-01
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
-0.001
-0.0005
0
0.0005
0.001
Phase
Odd
Even
Model Fit

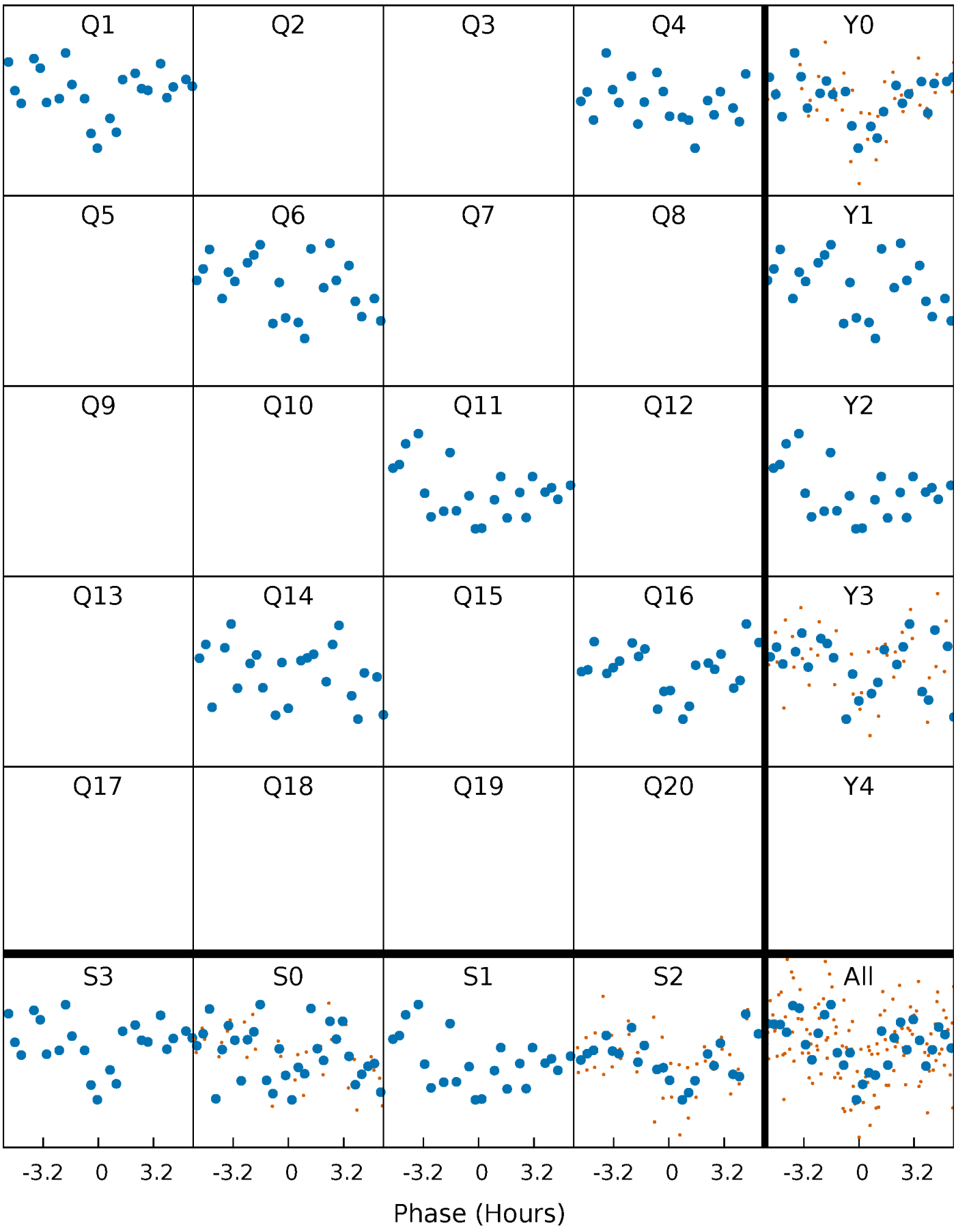
Non-Whitened Vs. Whitened Light Curve





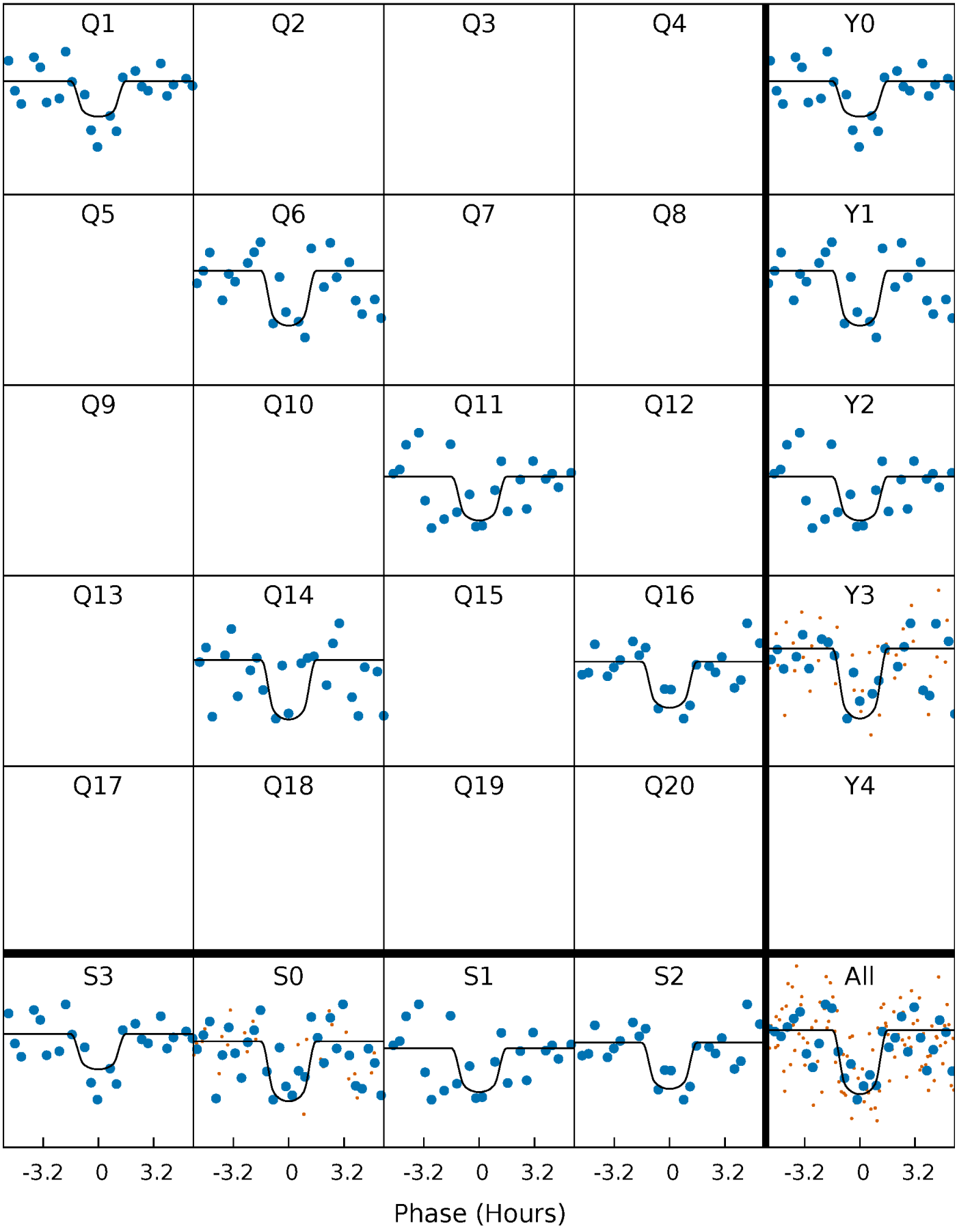
PDC Quarter-Phased Transit Curves

TCE 008289501-01 P=220.429096 Days T_0=201.090160 (BKJD)



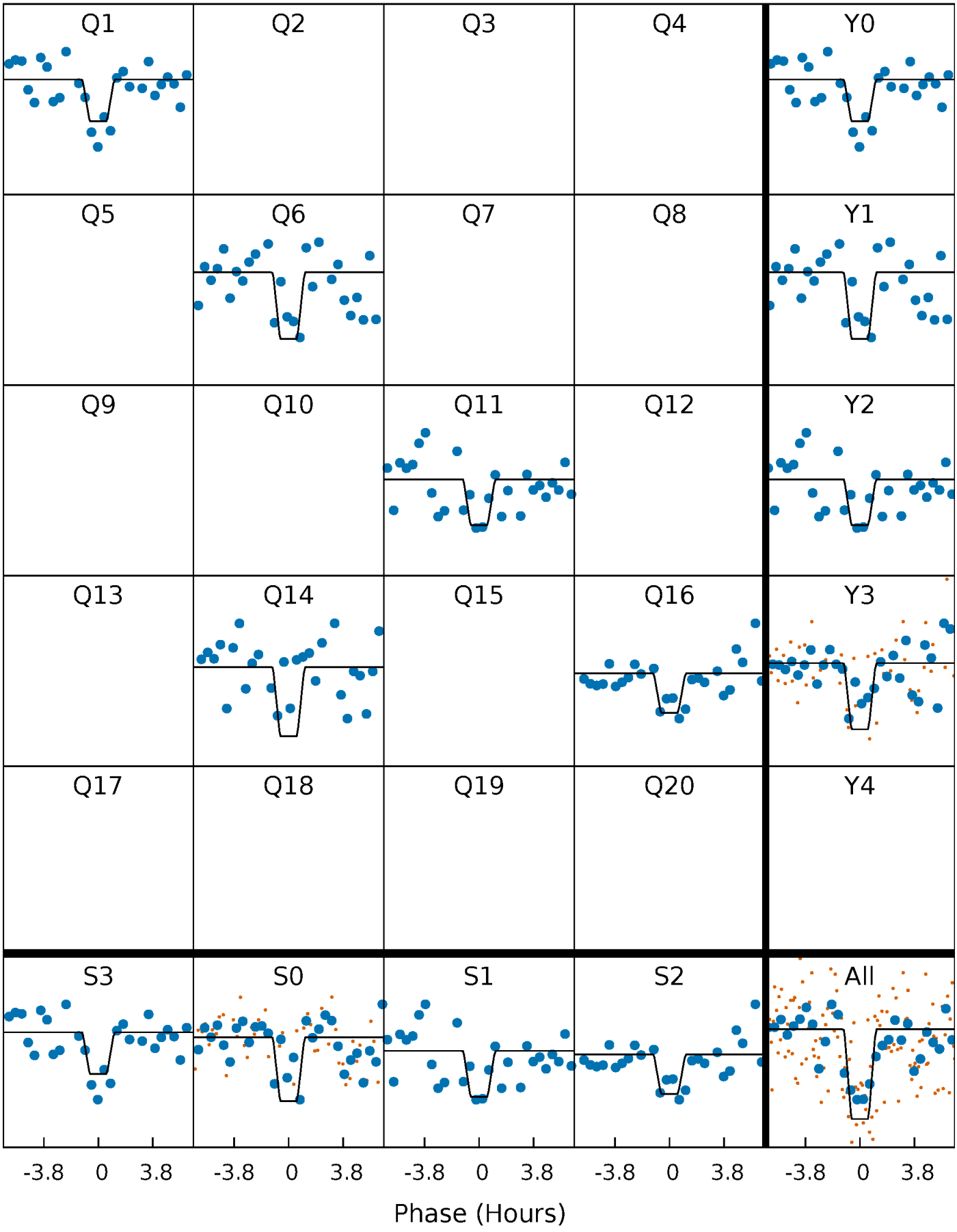
DV Quarter-Phased Transit Curves

TCE 008289501-01 P=220.429096 Days T_0=201.090160 (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

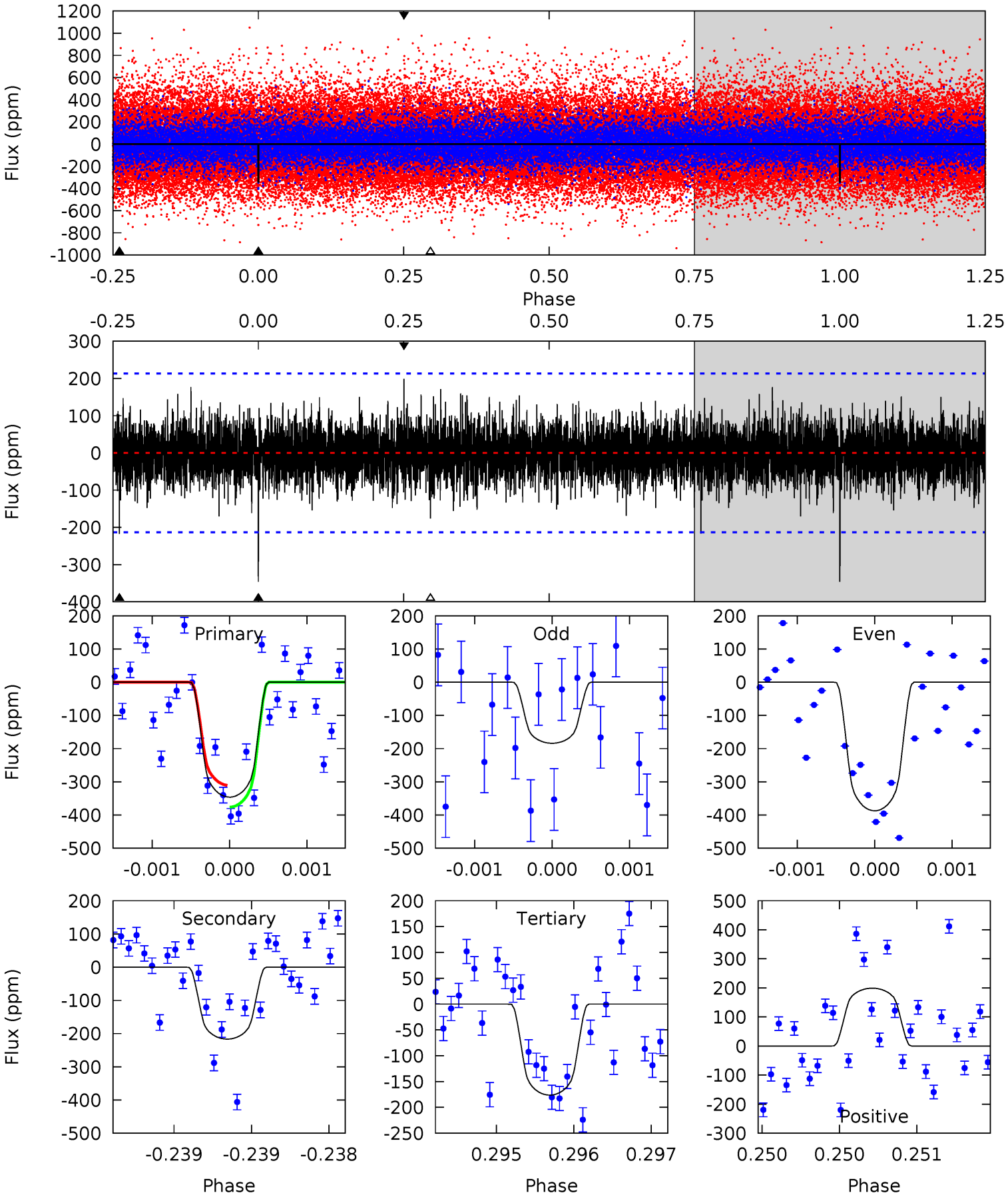
TCE 008289501-01 P=220.428271 Days T_0=201.093712 (BKJD)



DV Model-Shift Uniqueness Test

008289501-01, P = 220.429096 Days, E = 201.090160 Days

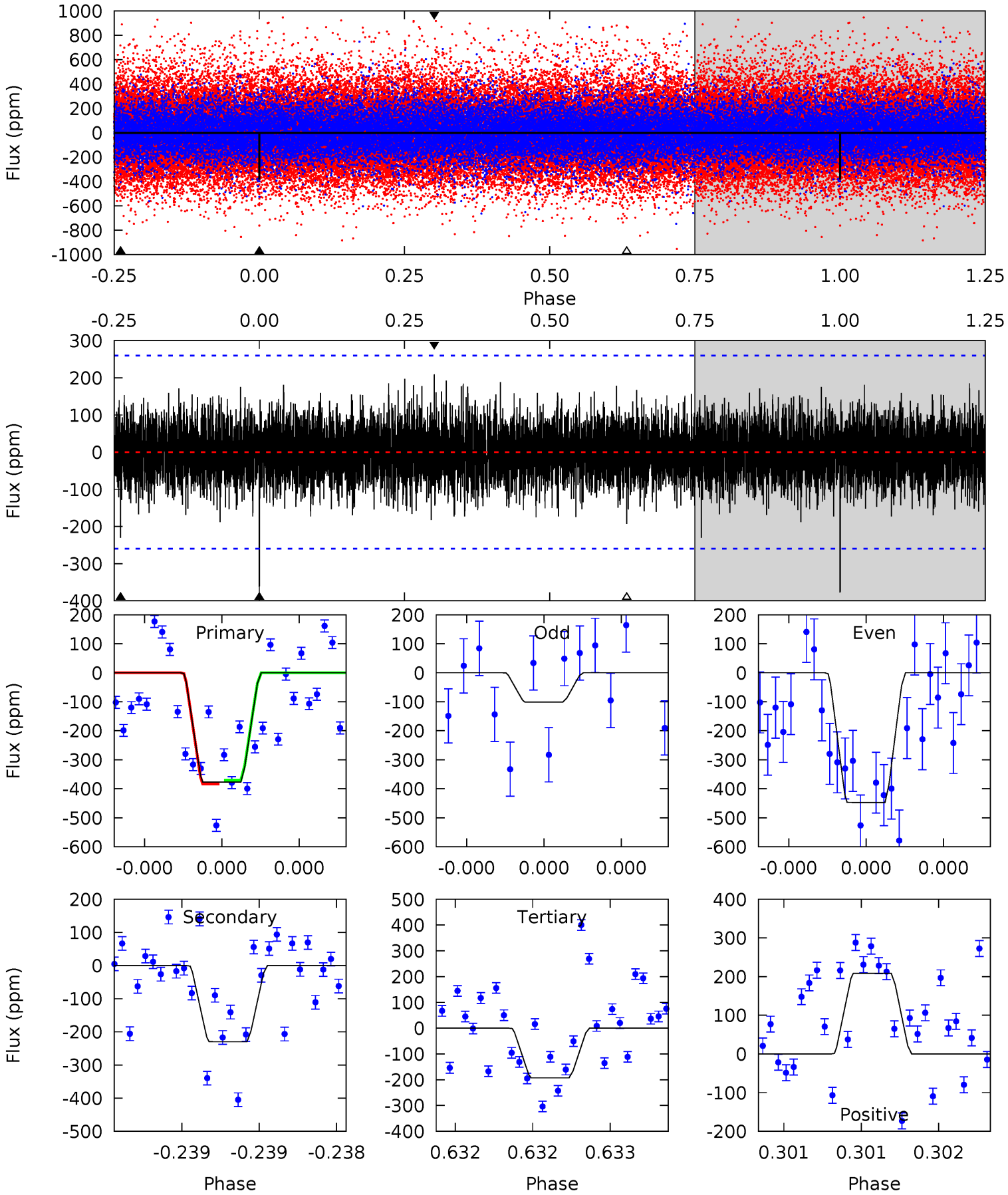
Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.99	5.62	4.58	5.17	5.54	3.43	1.24	4.41	3.82	1.05	0.46	2.19	1.05	0.37	0.85



Alt Model-Shift Uniqueness Test

008289501-01, P = 220.428271 Days, E = 201.093712 Days

Pri	Sec	Ter	Pos	FA_1	FA_2	F_{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.13	4.95	4.16	4.50	5.60	3.52	1.18	3.98	3.64	0.80	0.46	3.13	0.93	0.36	0.14



Stellar Parameters For KIC 008289501

	$T_{\rm eff}(K)$	$\log(g)$	[Fe/H]	R ($R_\odot$)	$M(M_\odot)$	$p_\star$ (g·cm^{-3})
	5132^{+153}_{-138}	$4.504^{+0.085}_{-0.077}$	$-0.100^{+0.300}_{-0.300}$	$0.808^{+0.088}_{-0.088}$	$0.761^{+0.098}_{-0.057}$	$2.028^{+0.784}_{-0.475}$
	+3%/-3%	+2%/-2%	+300%/-300%	+11%/-11%	+13%/-7%	+39%/-23%
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 008289501-01 / KOI

Detrend	Depth (ppm)	R_p ($R_\oplus$)	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-217±39	$2.09^{+1.07}_{-1.18}$	352^{+14}_{-13}	4285^{+1728}_{-635}	11803^{+48859}_{-6895}
Alt.	-230±46	$2.04^{+1.21}_{-1.07}$	352^{+14}_{-15}	4333^{+1630}_{-695}	12872^{+45343}_{-7969}

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