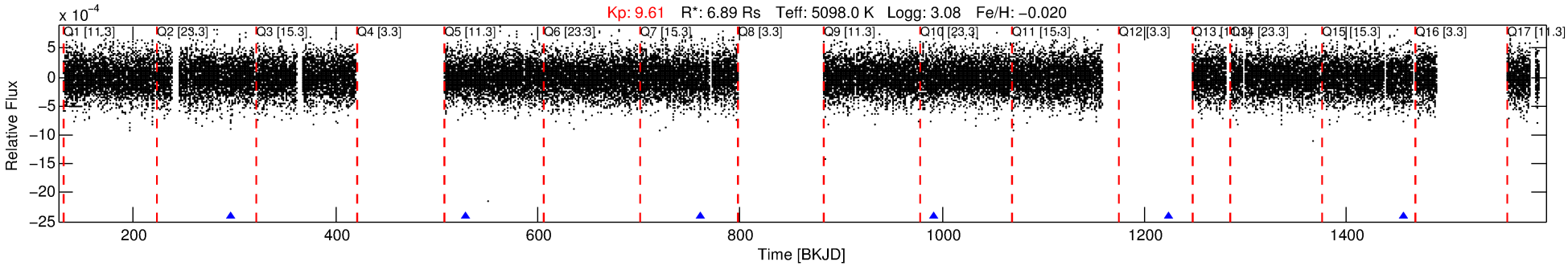
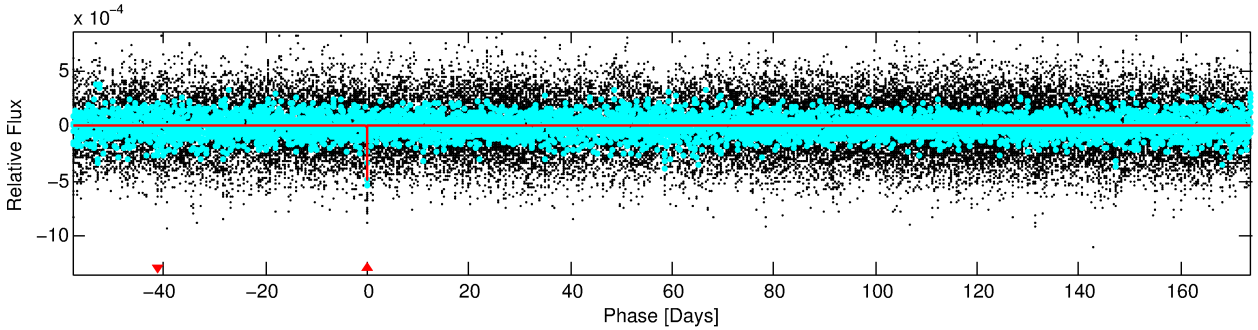
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

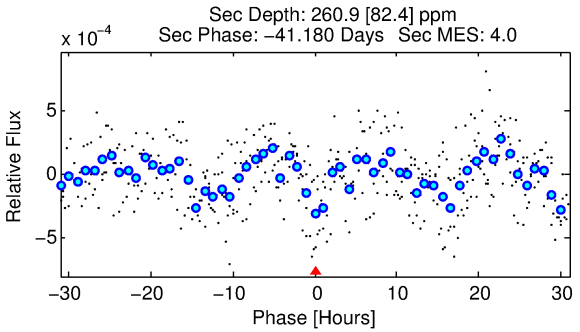
# DV One-Page Summary

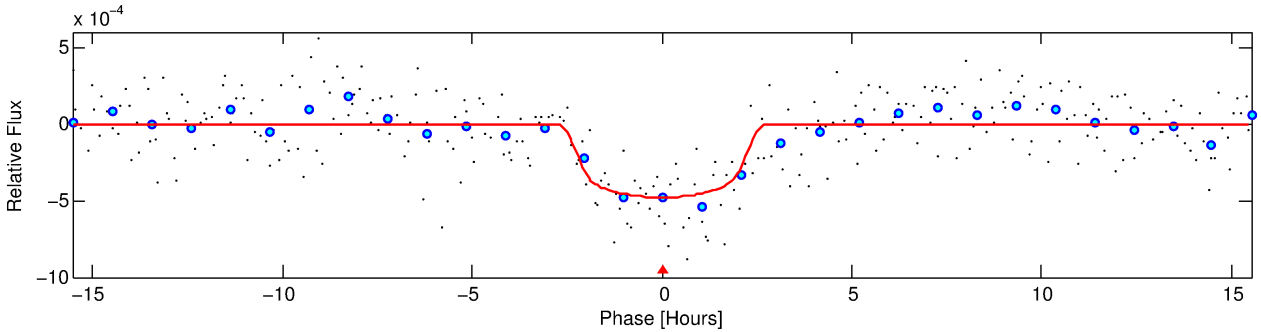
**KIC: 11337883 Candidate: 1 of 1 Period: 231.851 d**

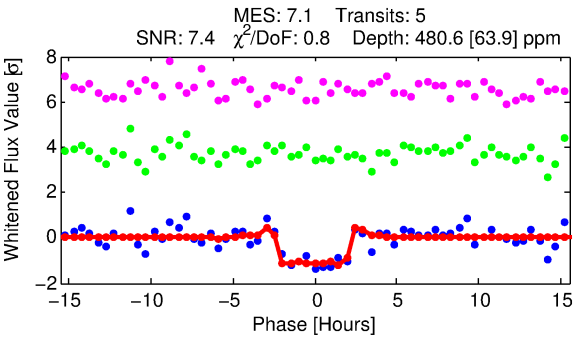
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

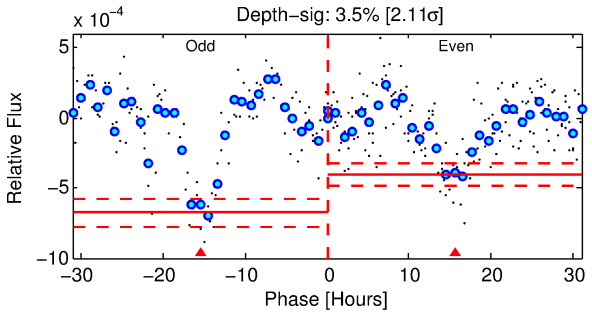



DV Fit Results:

Period = 231.85115 [0.00181] d
Epoch = 296.6891 [0.0059] BKJD
Rp/R* = 0.0244 [0.0030]
a/R* = 165.51 [64.32]
b = 0.90 [0.08]

Seff = 32.23 [7.09]
Teq = 608 [33] K
Rp = 18.36 [4.93] Re
a = 0.9439 [0.1516] AU

Ag = 379.47 [164.88] [2.30σ]
Teffp = 4146 [443] K [7.97σ]

DV Diagnostic Results:

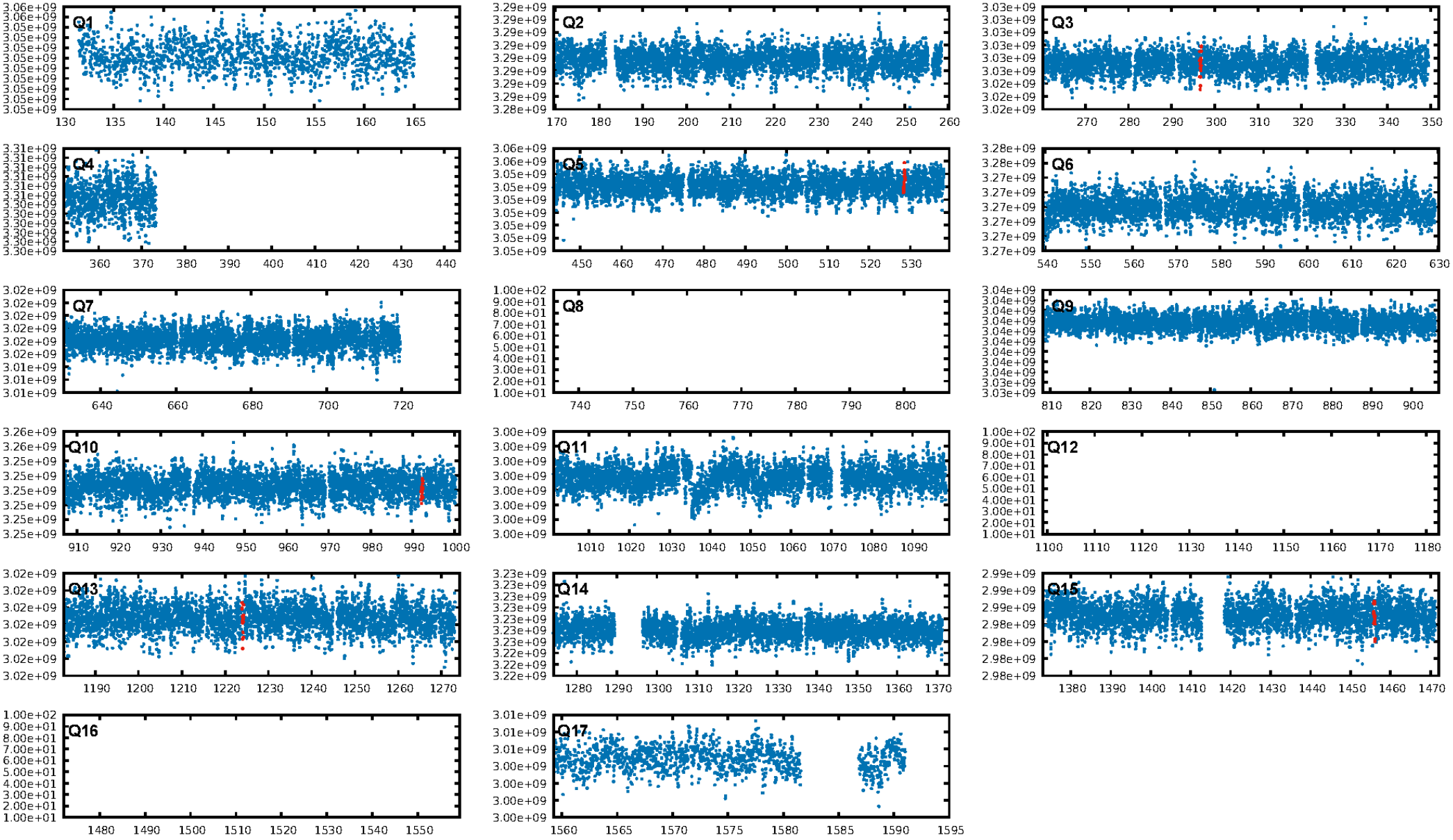
ShortPeriod−sig: N/A
LongPeriod−sig: N/A
ModelChiSquare2−sig: 54.5%
ModelChiSquareGof−sig: 99.8%
Bootstrap−pfa: 2.07e−11
RollingBand−fgt: N/A
GhostDiagnostic−chr: N/A

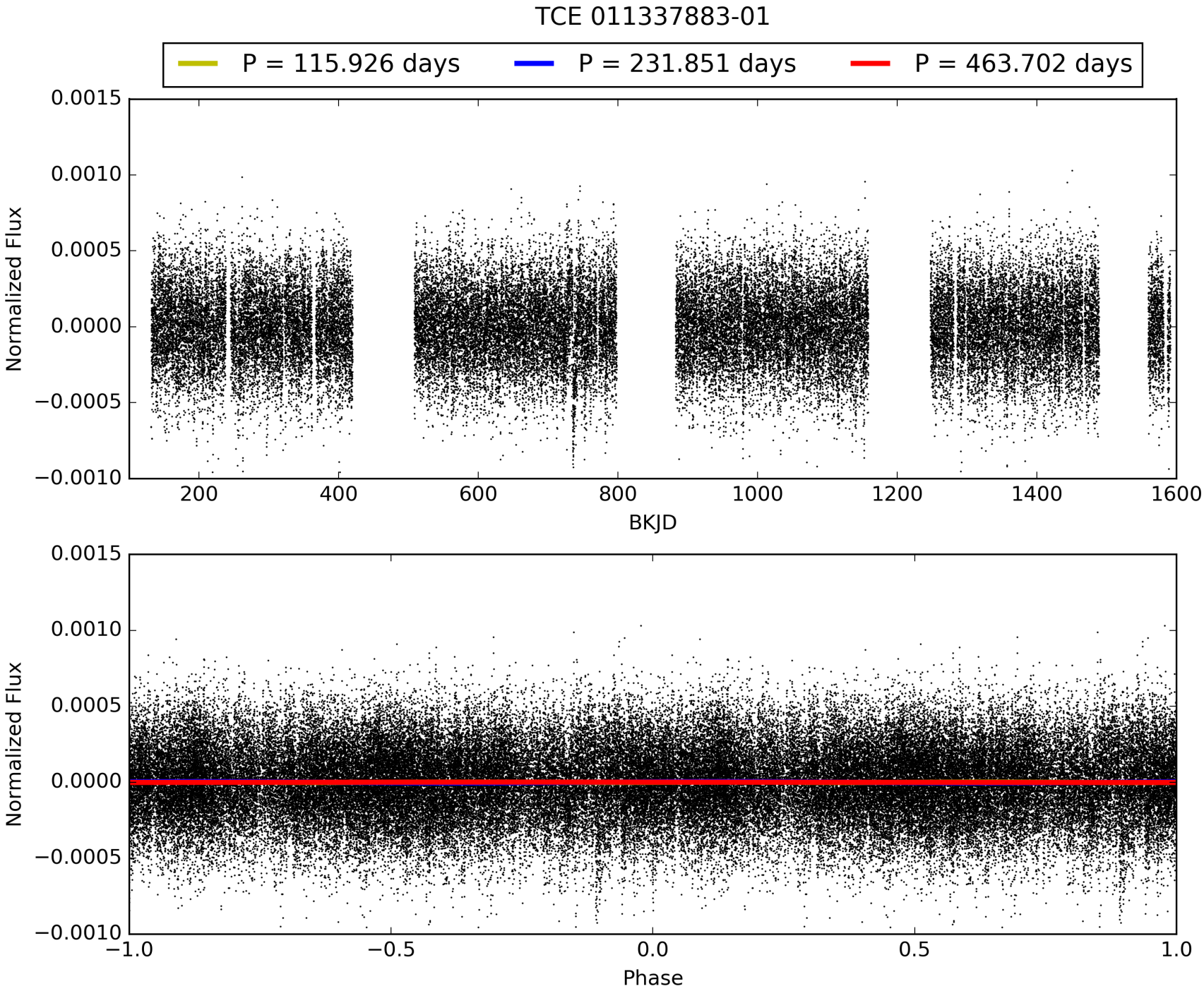
Centroid−sig: N/A
Centroid−so: N/A
OotOffset−rm: N/A
KicOffset−rm: N/A
OotOffset−st: 0/0/0/0 [0]
KicOffset−st: 0/0/0/0 [0]
DiffImageQuality−fgm: N/A
DiffImageOverlap−fno: N/A

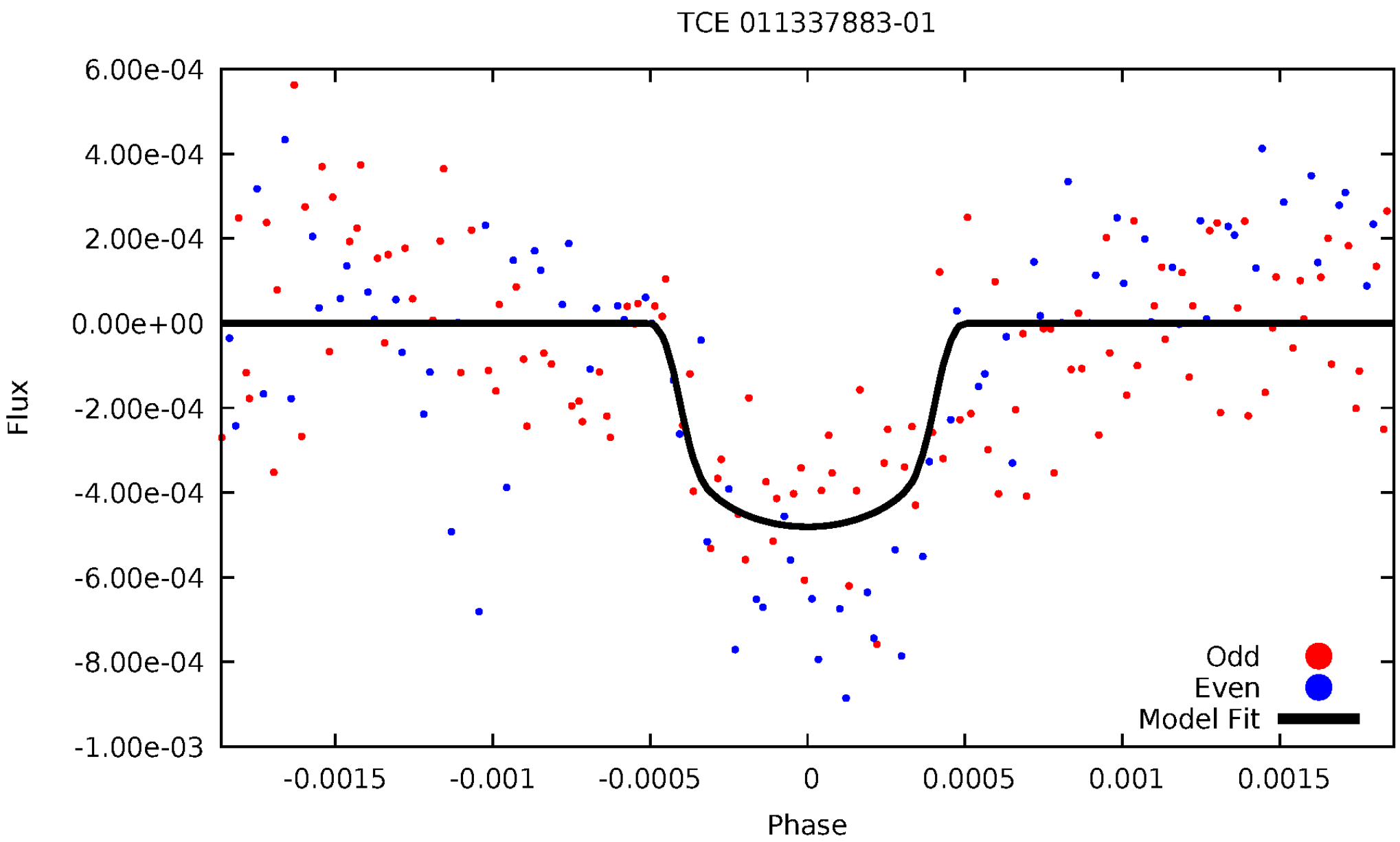
**Software Revision: svn+ssh://murzim/repo/soc/branches/integ/ksop−2602@61285 −− Date Generated: 04−Jun−2016 13:33:00 Z**

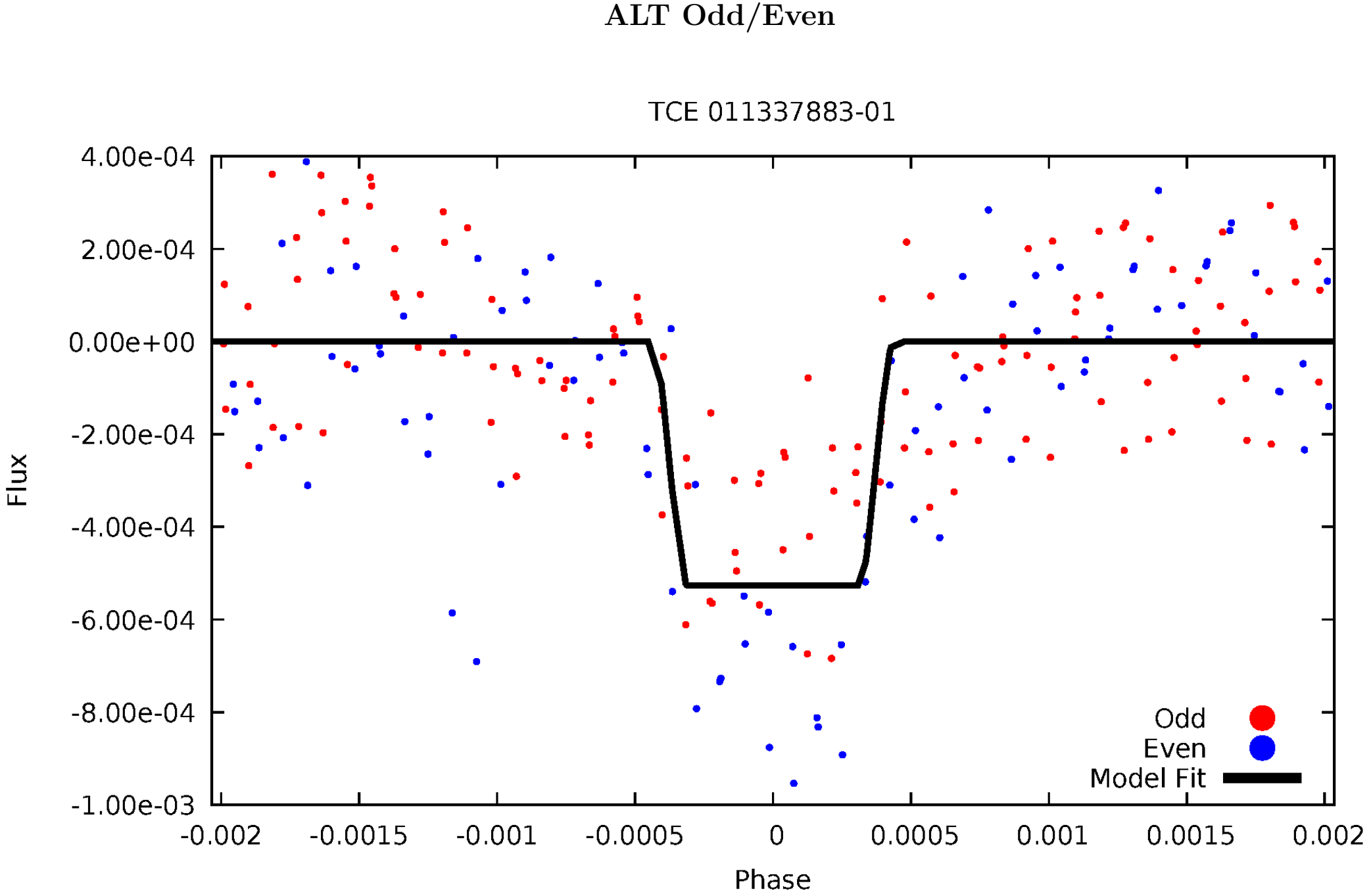
**This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center**

# TCE 011337883-01, PDC Light Curves

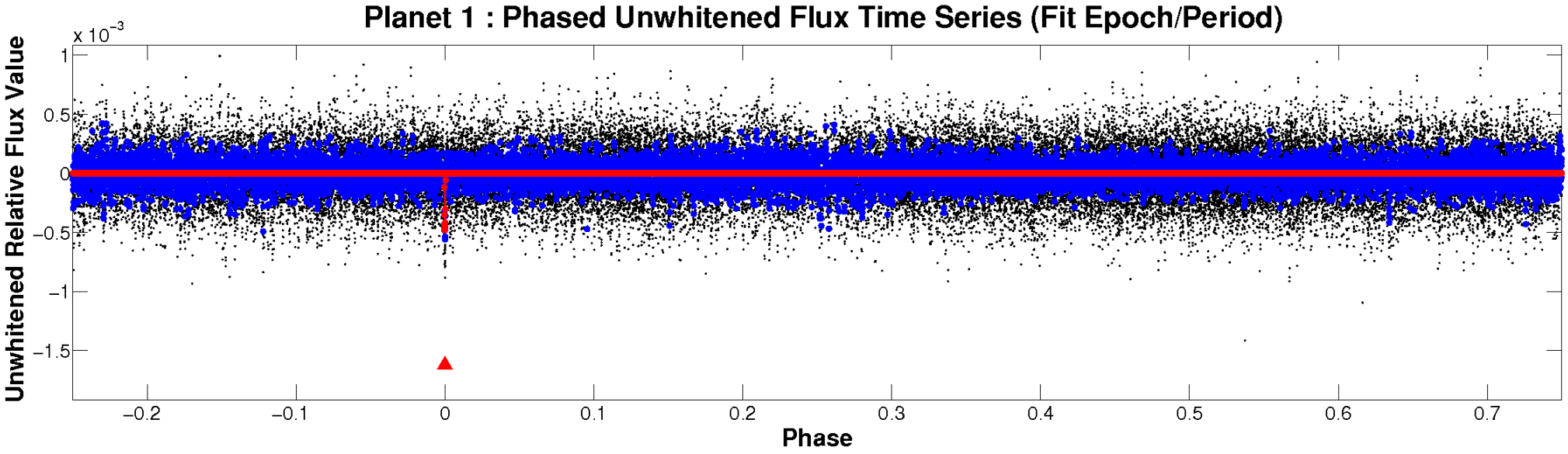


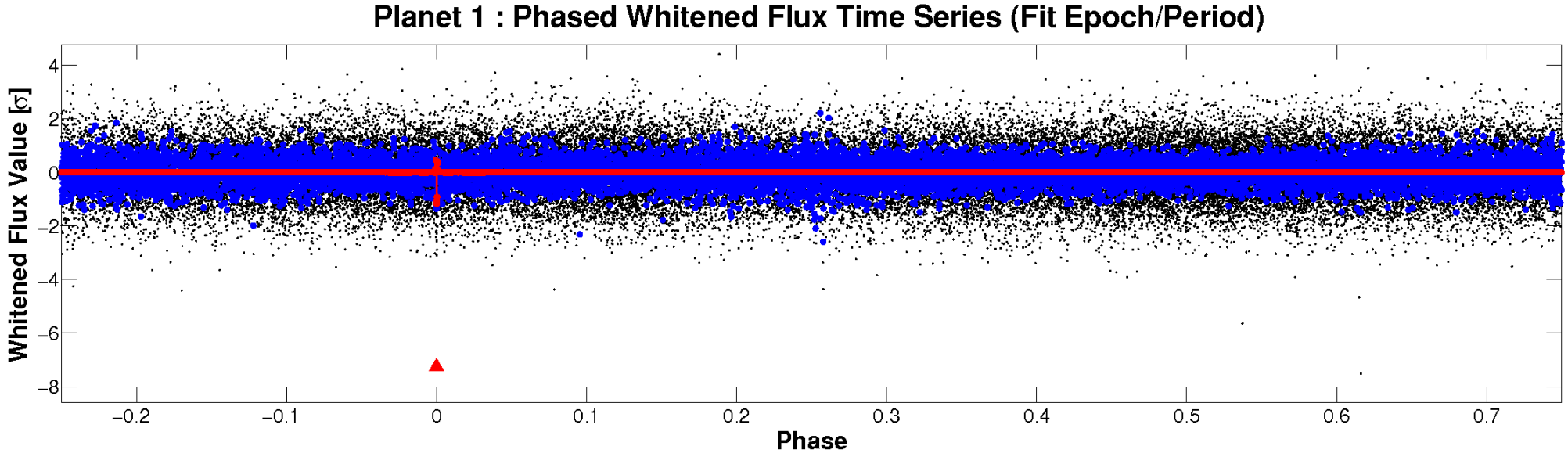

TCE 011337883-01
P = 115.926 days
P = 231.851 days
P = 463.702 days
Normalized Flux
0.0015
0.0010
0.0005
0.0000
−0.0005
−0.0010
200
400
600
800
1000
1200
1400
1600
BKJD
Normalized Flux
0.0015
0.0010
0.0005
0.0000
−0.0005
−0.0010
−1.0
−0.5
0.0
0.5
1.0
Phase


DV Odd/Even
TCE 011337883-01
6.00e-04
4.00e-04
2.00e-04
0.00e+00
-2.00e-04
-4.00e-04
-6.00e-04
-8.00e-04
-1.00e-03
Flux
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
Phase
Odd
Even
Model Fit


ALT Odd/Even
TCE 011337883-01
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
-0.002
-0.0015
-0.001
-0.0005
0
0.0005
0.001
0.0015
0.002
Phase
Odd
Even
Model Fit

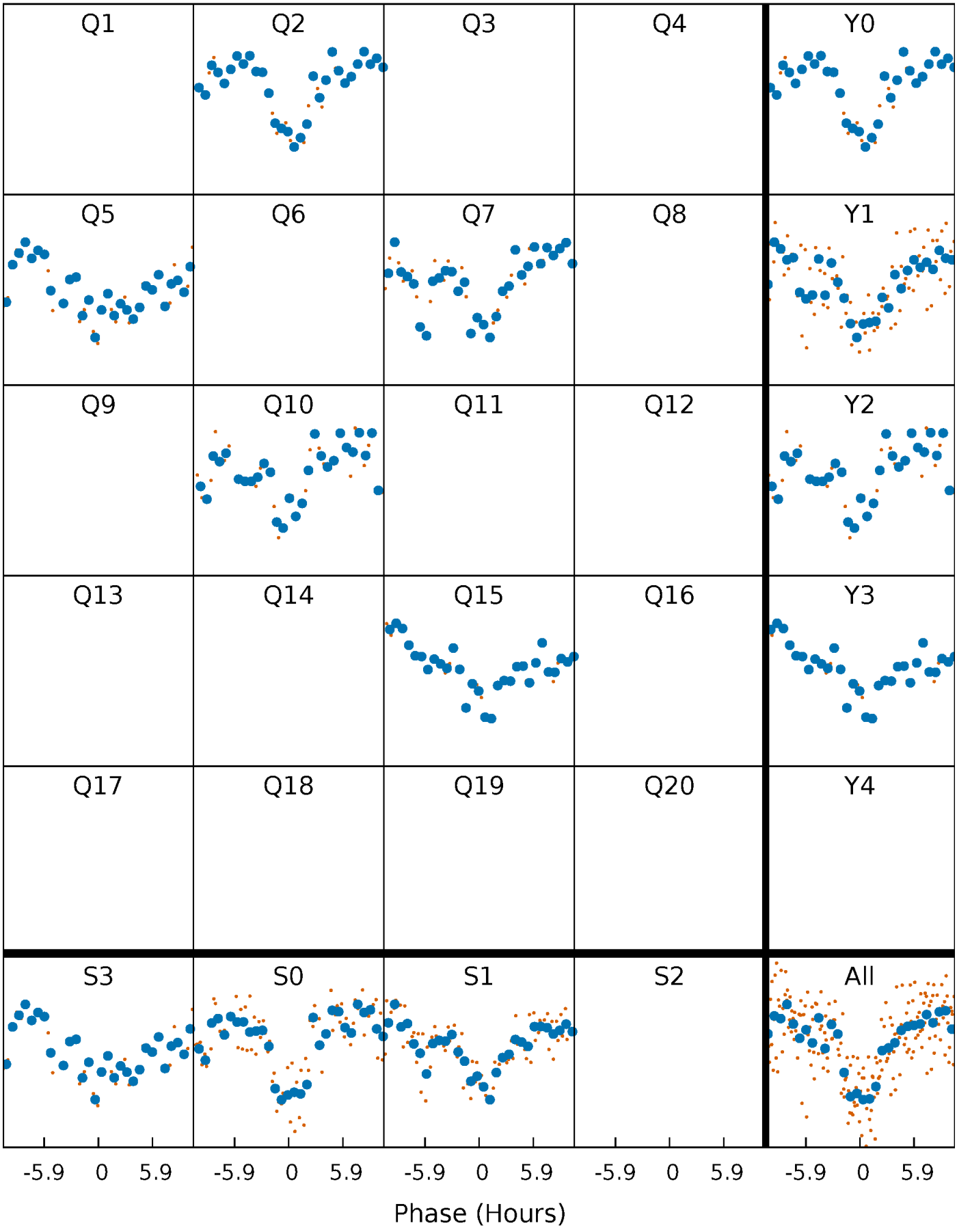
# Non-Whitened Vs. Whitened Light Curve



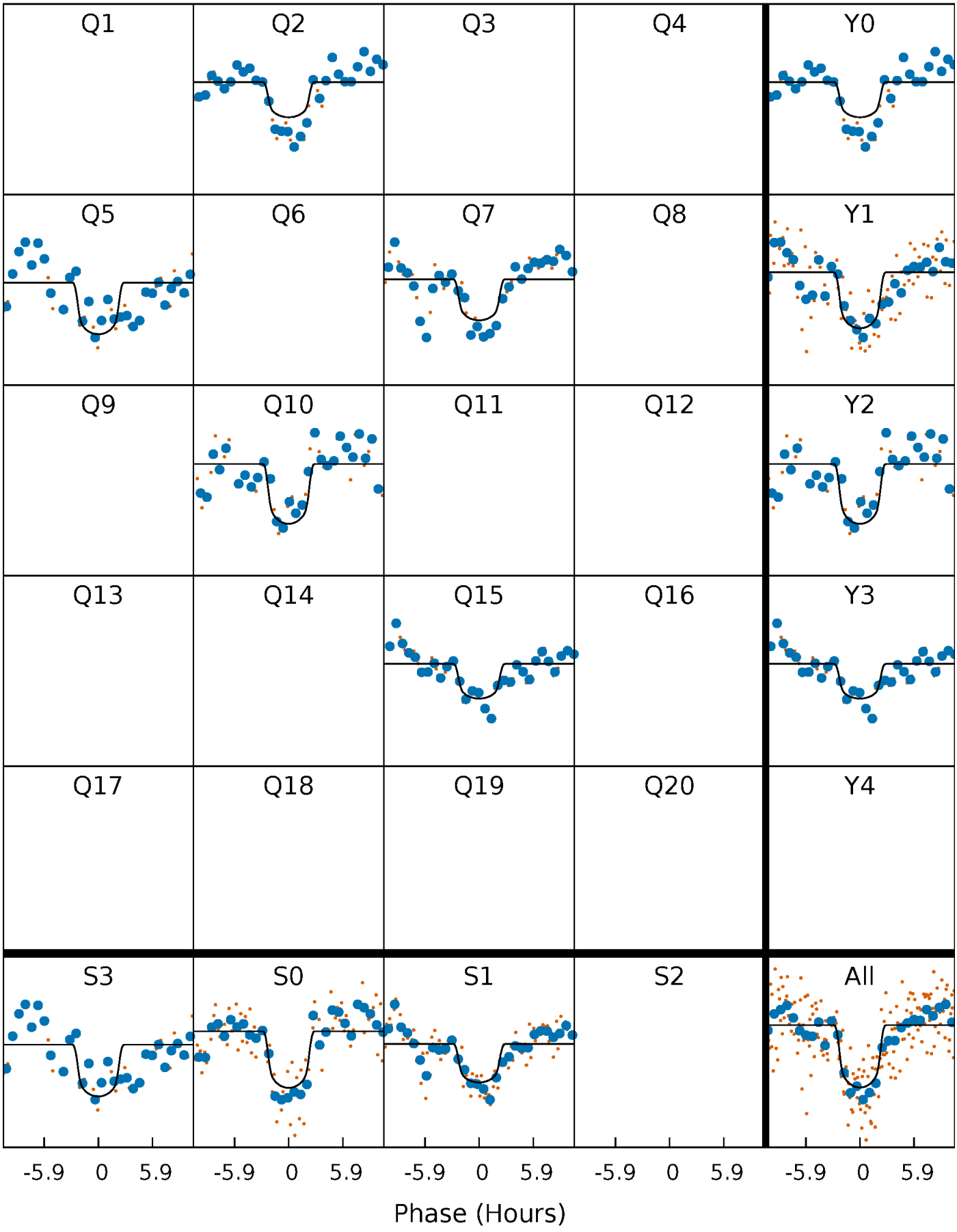
# PDC Quarter-Phased Transit Curves

TCE 011337883-01  P=231.851151 Days  $T_0$=296.689107 (BKJD)



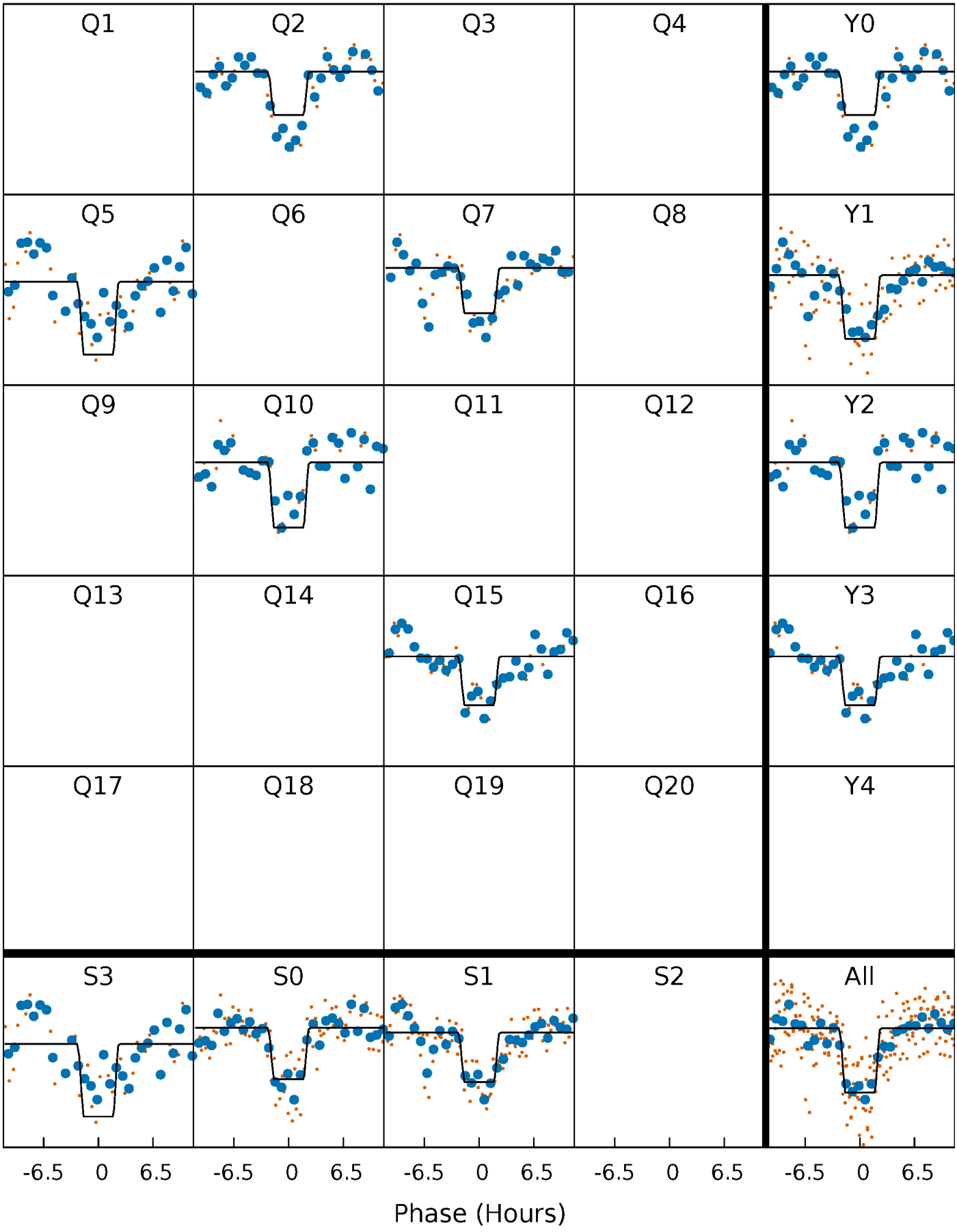
# DV Quarter-Phased Transit Curves

TCE 011337883-01  P=231.851151 Days  $T_0$=296.689107 (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

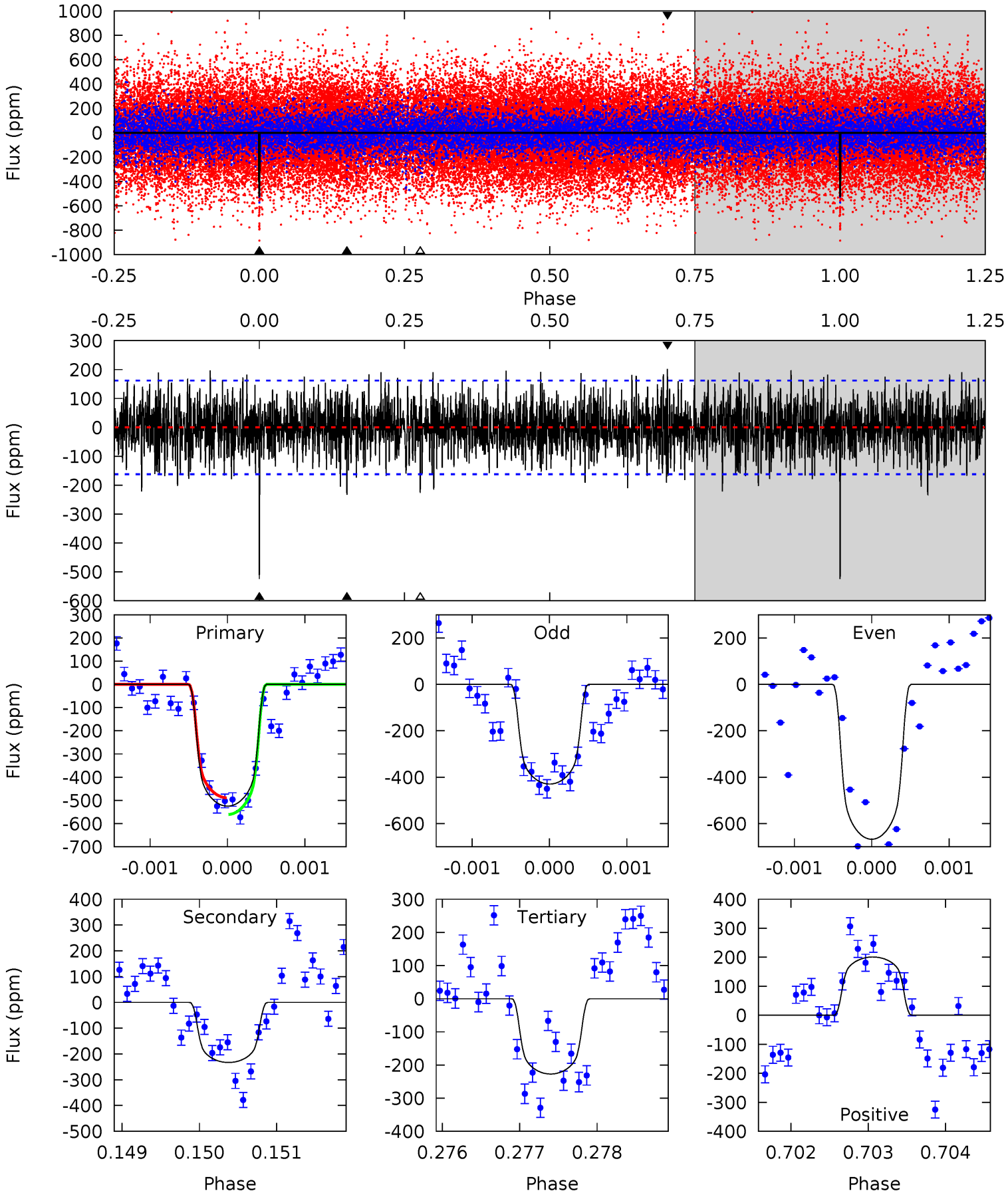
TCE 011337883-01  P=231.849349 Days  $T_0$=296.699956 (BKJD)



# DV Model-Shift Uniqueness Test

011337883-01, P = 231.851151 Days, E = 64.837956 Days

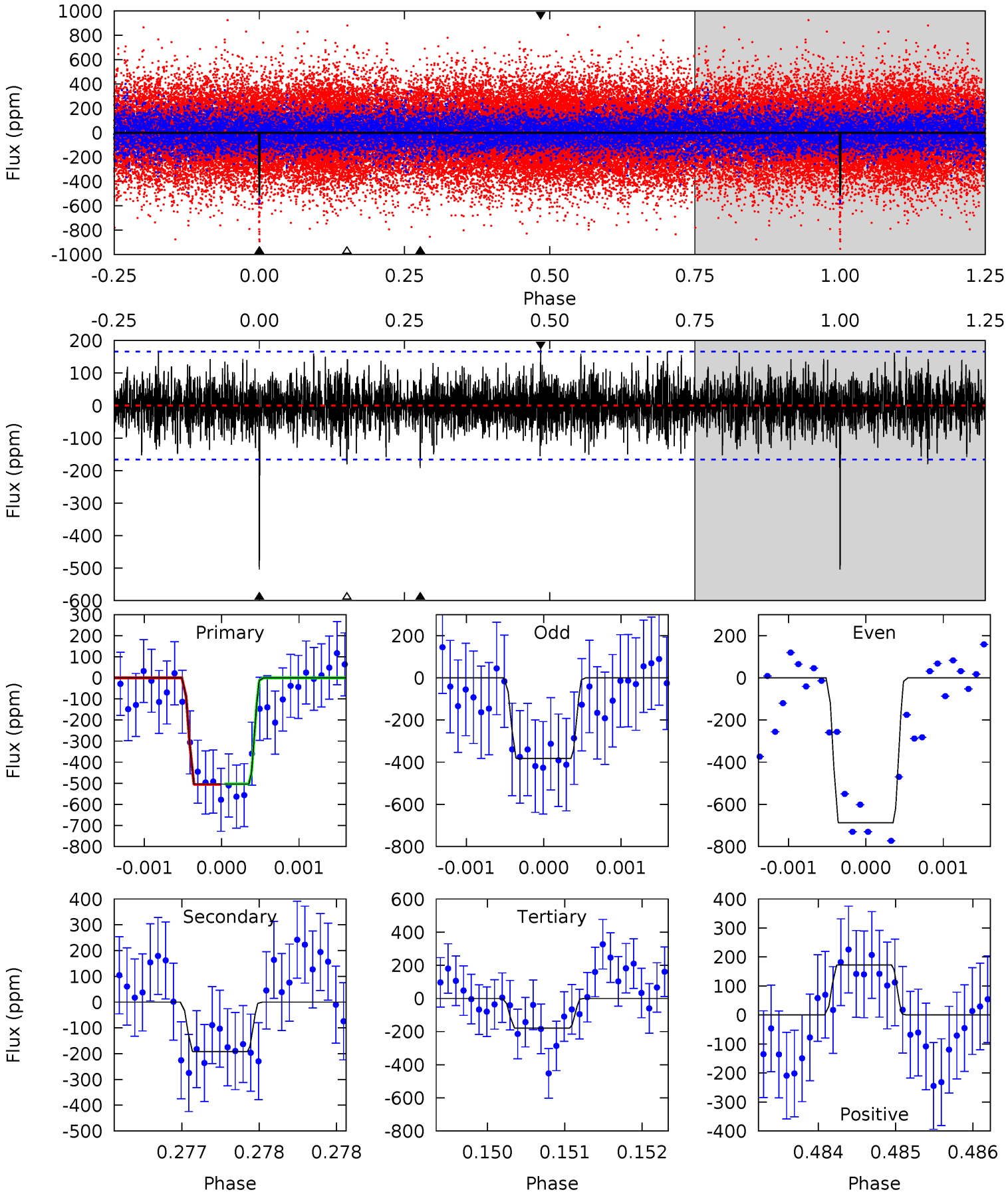
| Pri | Sec | Ter | Pos | $FA_1$ | $FA_2$ | $F_{Red}$ | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17.7 | 7.85 | 7.65 | 6.77 | 5.45 | 3.29 | 2.20 | 10.0 | 10.9 | 0.20 | 1.08 | 3.90 | 1.01 | 0.28 | 1.21 |



# Alt Model-Shift Uniqueness Test

011337883-01, P = 231.849349 Days, E = 64.850607 Days

| Pri | Sec | Ter | Pos | $FA_1$ | $FA_2$ | $F_{Red}$ | Pri-Ter | Pri-Pos | Sec-Ter | Sec-Pos | Odd-Evn | DMM | Shape | TAT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16.6 | 6.33 | 5.93 | 5.69 | 5.47 | 3.33 | 1.61 | 10.7 | 10.9 | 0.40 | 0.64 | 4.98 | 1.03 | 0.25 | 0.03 |



Stellar Parameters For KIC 011337883

| | $T_{\rm eff}(K)$ | $\log(g)$ | [Fe/H] | $R$ ($R_\odot$) | $M(M_\odot)$ | $p_\star$ (g·cm$^{-3}$) |
|---|---|---|---|---|---|---|
| | $5098^{+37}_{-185}$ | $3.081^{+0.030}_{-0.030}$ | $-0.020^{+0.100}_{-0.200}$ | $6.889^{+0.274}_{-1.642}$ | $2.084^{+0.046}_{-0.865}$ | $0.009^{+0.003}_{-0.001}$ |
| | +1%/-4% | +1%/-1% | +500%/-1000% | +4%/-24% | +2%/-42% | +34%/-7% |
| Source | PHO55 | AST55 | SPE55 | DSEP | | |

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

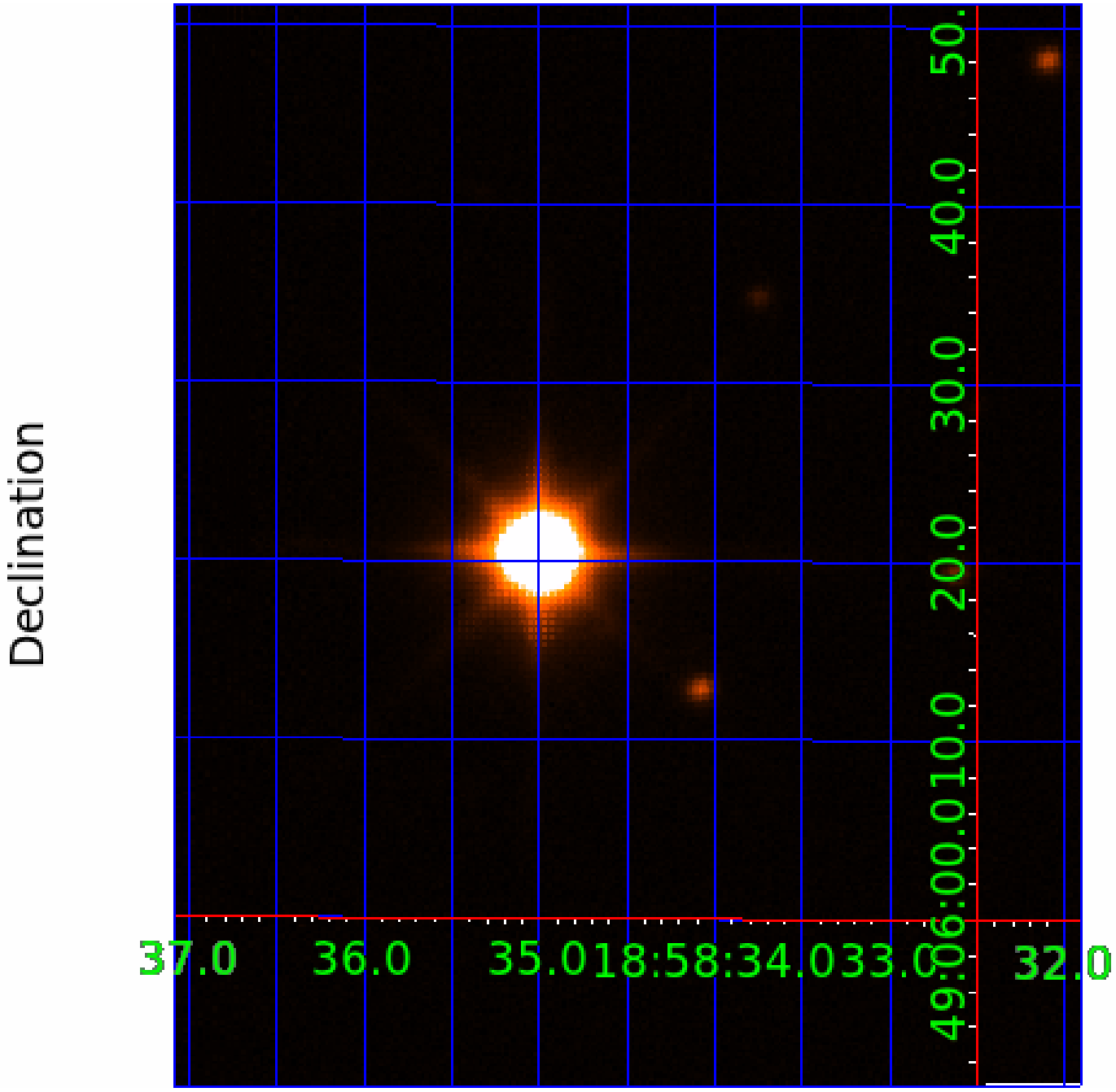
Secondary Eclipse Parameters for KIC 011337883-01 / KOI

| Detrend | Depth (ppm) | $R_p$ ($R_\oplus$) | $T_{max}$ (K) | $T_{obs}$ (K) | $A_{obs}$ |
|---|---|---|---|---|---|
| DV | -233±30 | $18.57^{+2.35}_{-2.85}$ | $848^{+14}_{-30}$ | $4178^{+272}_{-214}$ | $330^{+135}_{-77}$ |
| Alt. | -192±30 | $17.19^{+2.59}_{-2.68}$ | $847^{+14}_{-30}$ | $4126^{+282}_{-214}$ | $315^{+129}_{-84}$ |

$T_{max}$ = 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
37.0
36.0
35.0
18:58:34.0
33.0
32.0
49:06:00.0
10.0
20.0
30.0
40.0
50.