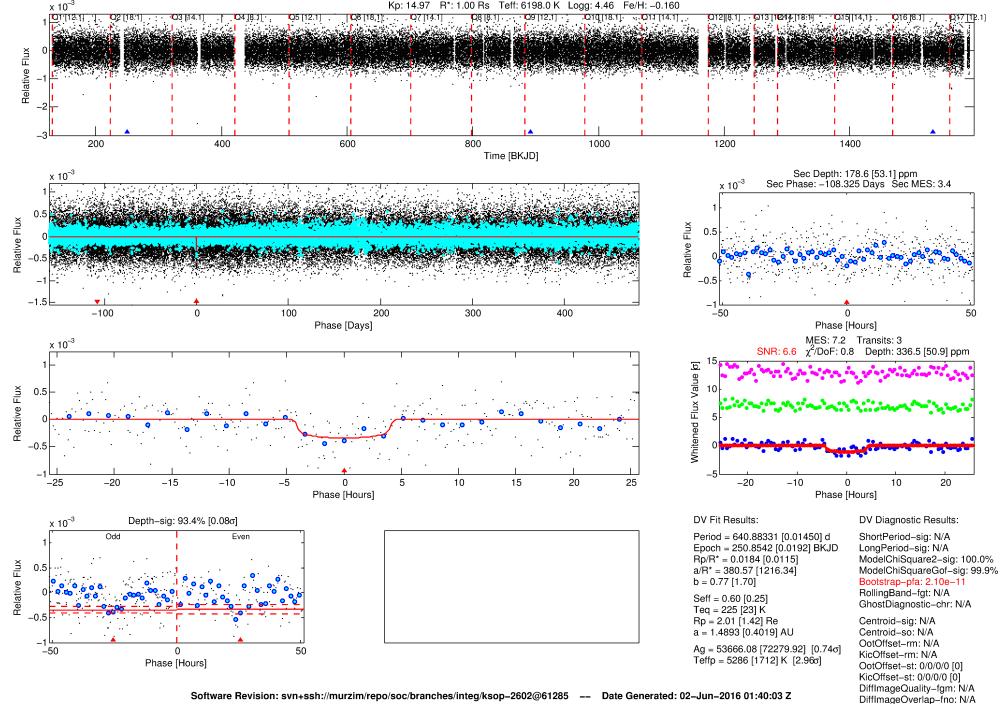
WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

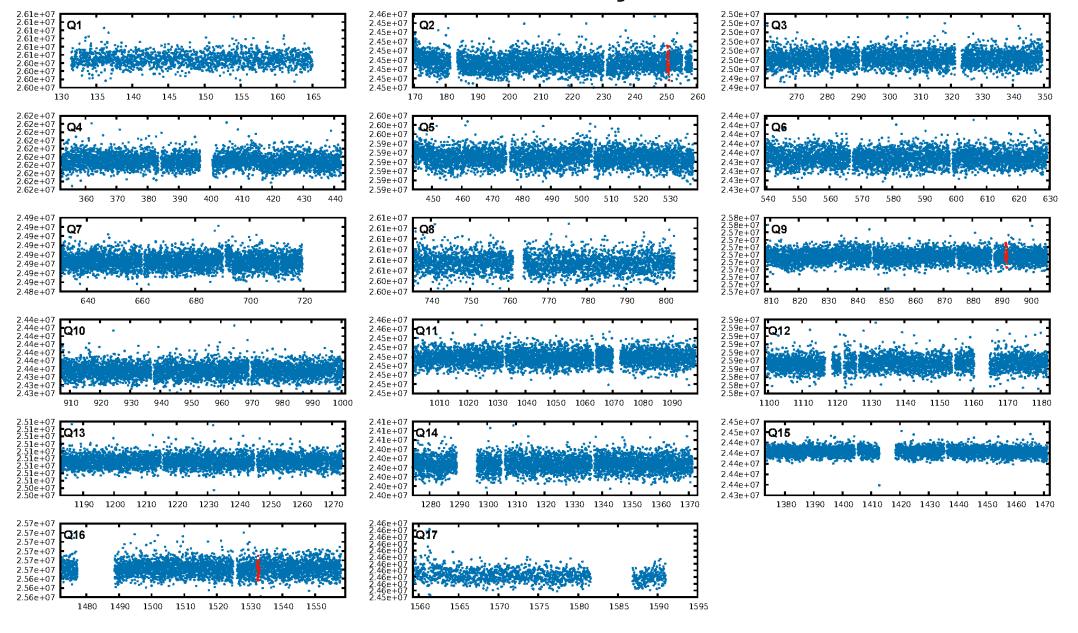
DV One-Page Summary

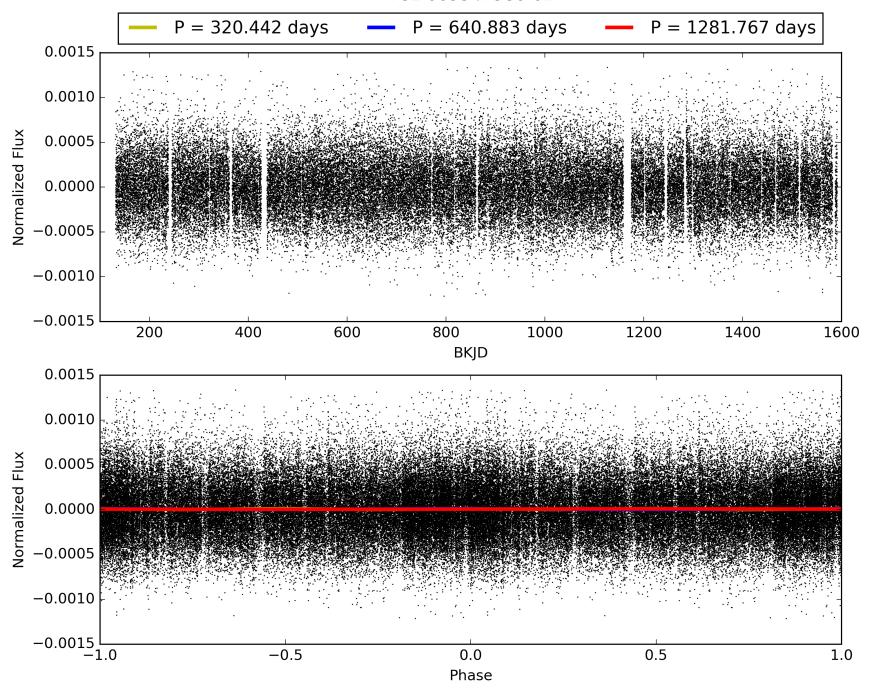
KIC: 9947980 Candidate: 1 of 1 Period: 640.883 d

WARNING: THIS DATA IS SIMULATED, NOT OBSERVED

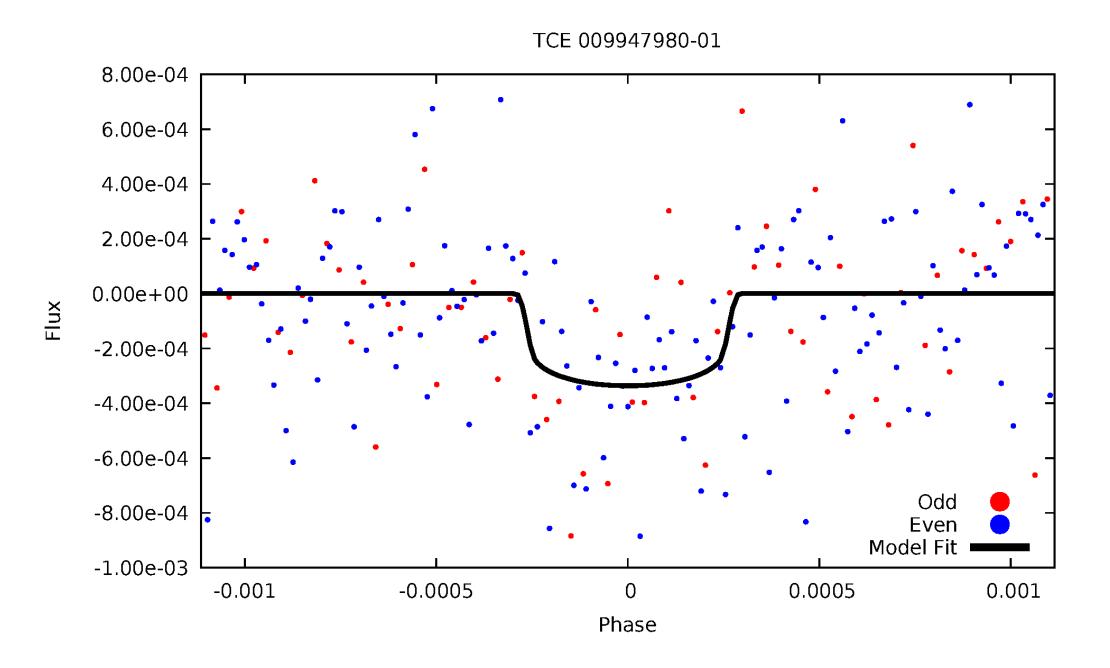


TCE 009947980-01, PDC Light Curves

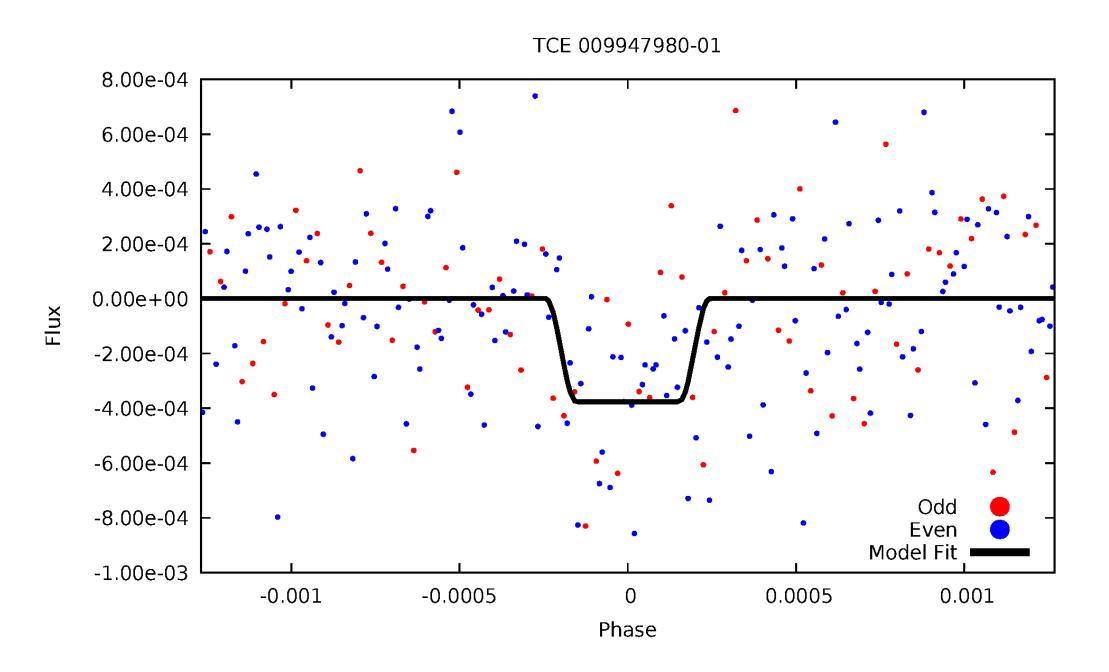




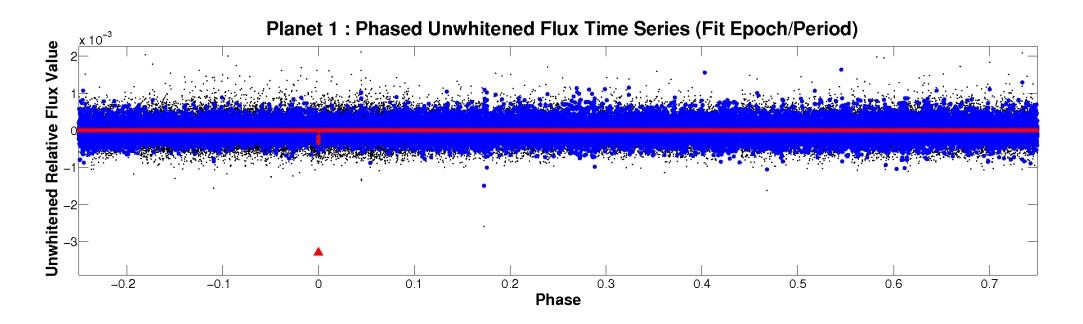
DV Odd/Even

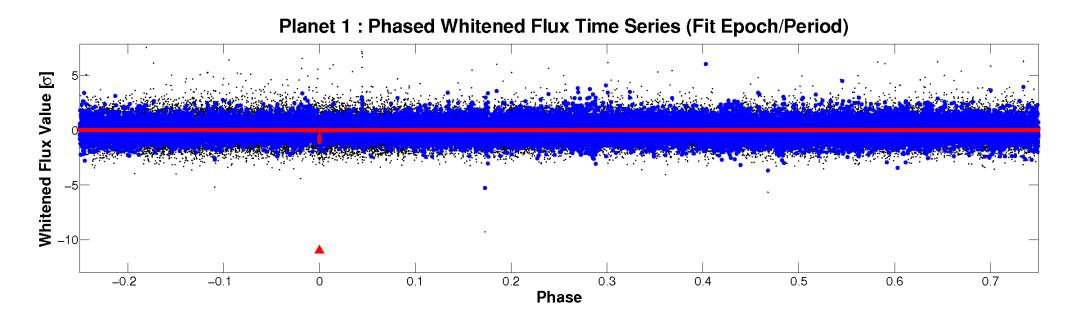


ALT Odd/Even



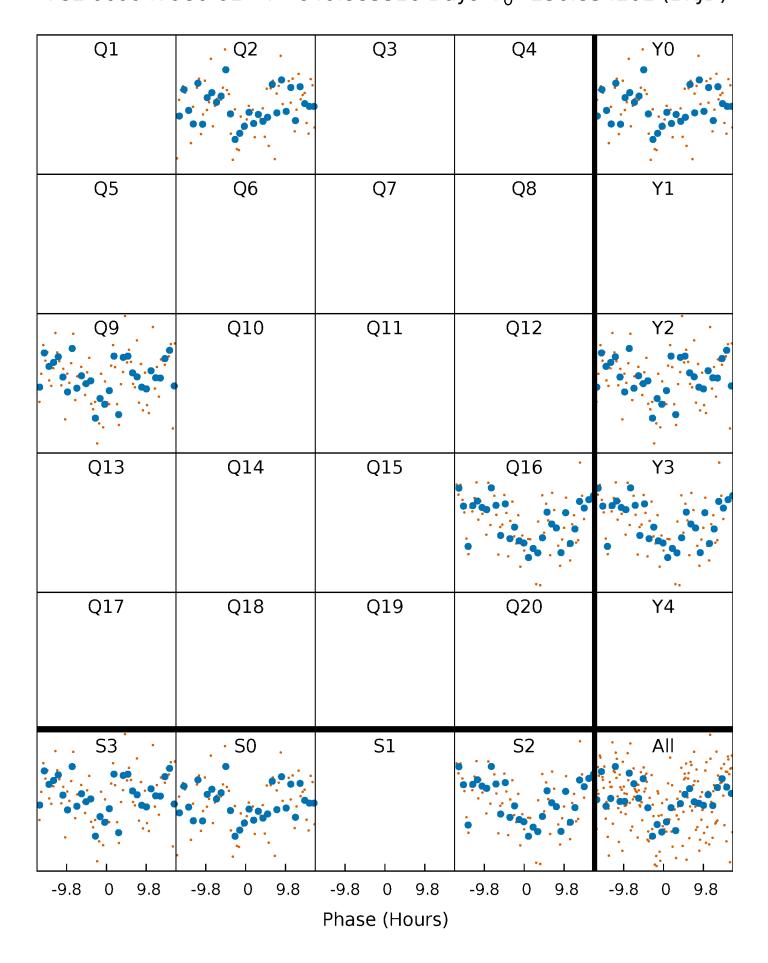
Non-Whitened Vs. Whitened Light Curve





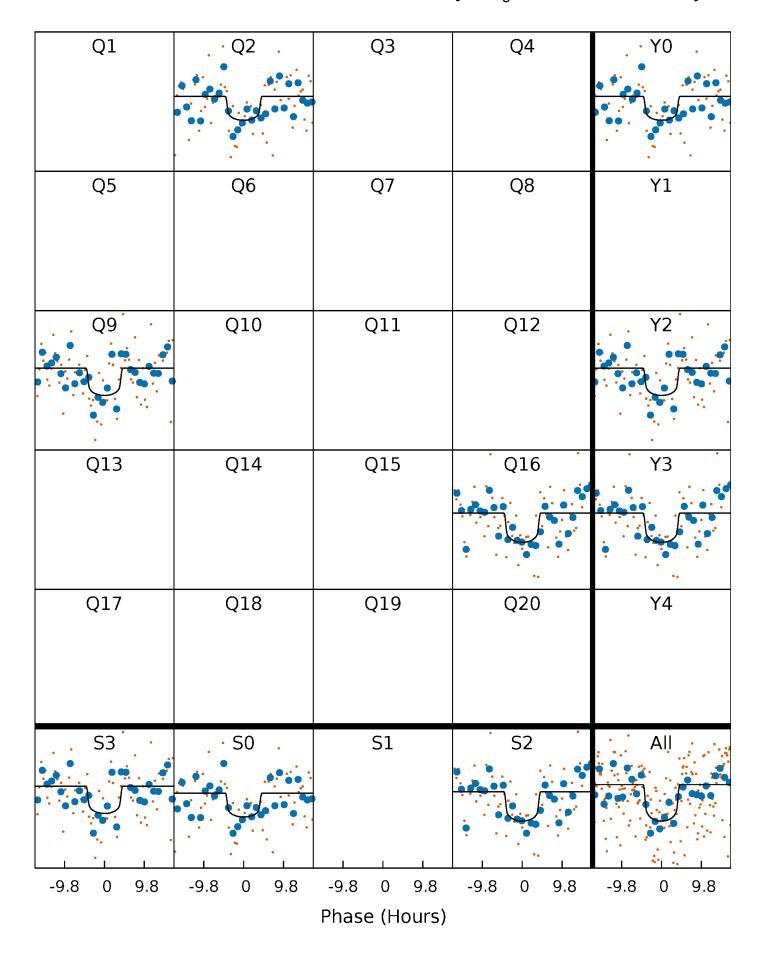
PDC Quarter-Phased Transit Curves

TCE 009947980-01 $P=640.883310 Days T_0=250.854201 (BKJD)$



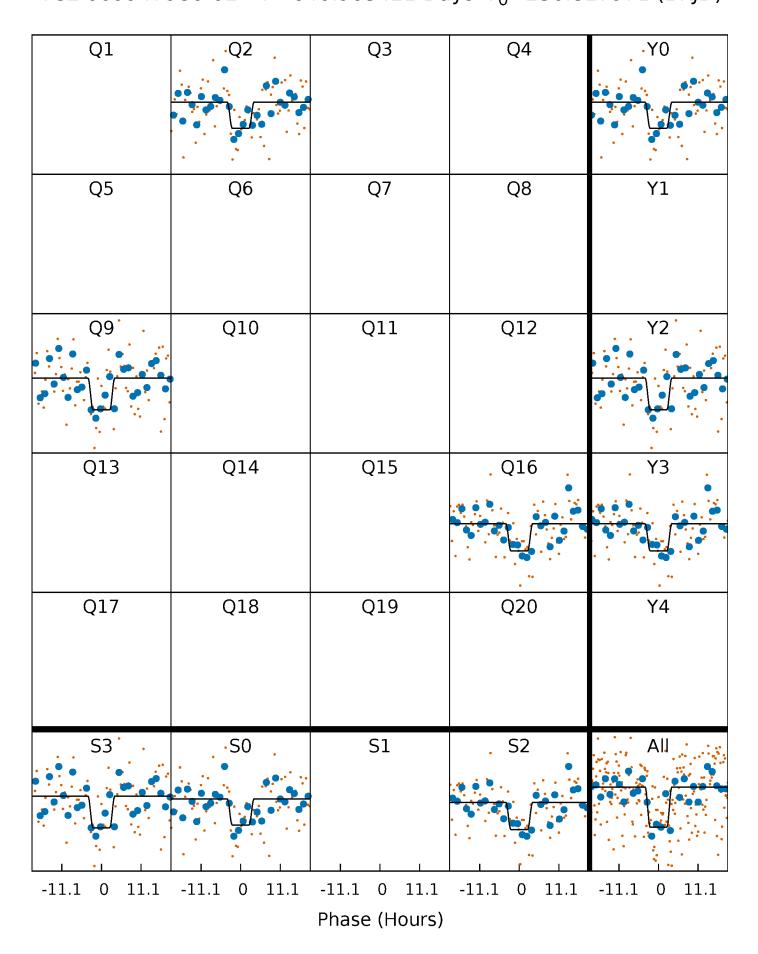
DV Quarter-Phased Transit Curves

TCE 009947980-01 $P=640.883310 Days T_0=250.854201 (BKJD)$



Alt. Detrend Quarter-Phased Transit Curves

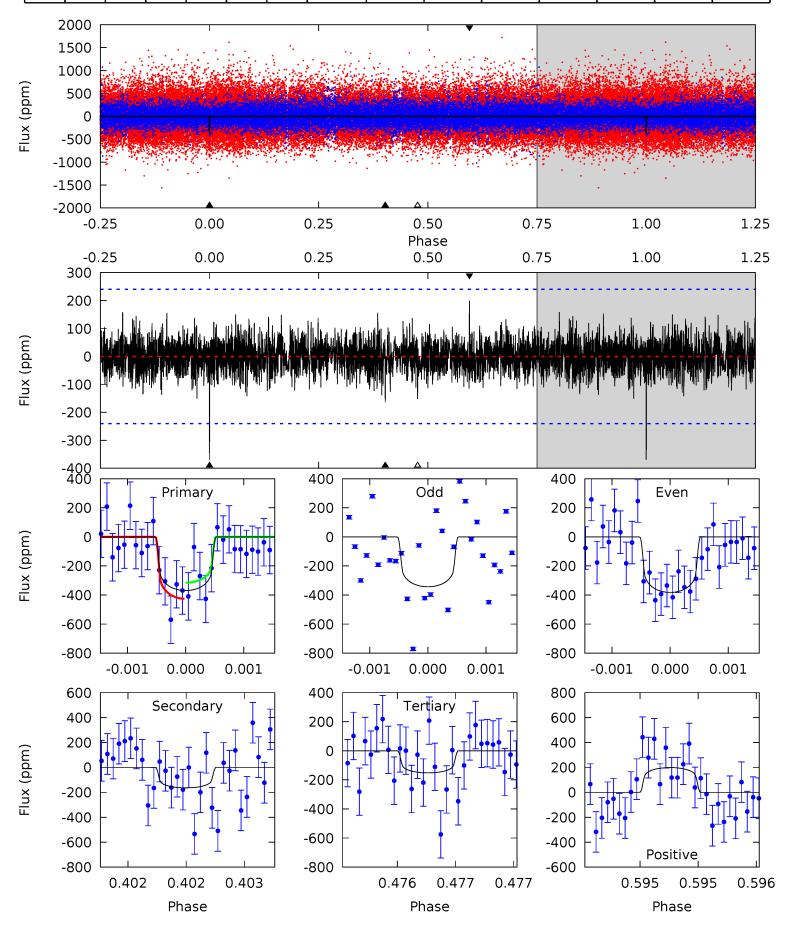
TCE 009947980-01 $P=640.905421 Days T_0=250.817971 (BKJD)$



DV Model-Shift Uniqueness Test

009947980-01, P = 640.883310 Days, E = 250.854201 Days

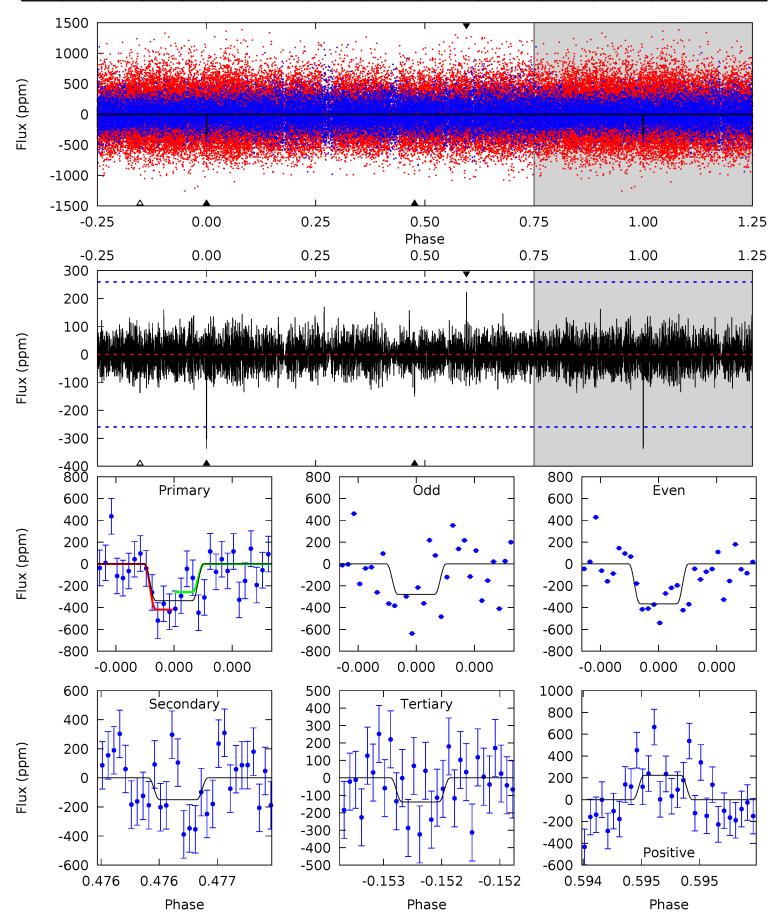
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.53	3.79	3.51	4.59	5.55	3.45	1.02	5.02	3.94	0.29	-0.79	0.42	0.97	0.35	1.29



Alt Model-Shift Uniqueness Test

009947980-01, P = 640.905421 Days, E = 250.817971 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.24	3.25	2.97	4.80	5.58	3.49	0.92	4.28	2.44	0.28	-1.55	0.86	0.93	0.40	1.73



Stellar Parameters For KIC 009947980

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(\mathrm{M}_{\odot})$	$p_{\star} (\text{g} \cdot \text{cm}^{-3})$
	6198^{+174}_{-218}	$4.464^{+0.054}_{-0.216}$	$-0.160^{+0.250}_{-0.300}$	$1.005^{+0.321}_{-0.107}$	$1.072^{+0.144}_{-0.144}$	$1.489^{+0.420}_{-0.819}$
	+3%/-4%	+1%/-5%	+156%/-188%	+32%/-11%	+13%/-13%	+28%/-55%
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 009947980-01 / KOI

Detrend	Depth (ppm)	$R_p(R_{\bigoplus})$	T_{max} (K)	$T_{obs}(K)$	A_{obs}
DV	-164 ± 43	$2.17^{+1.34}_{-1.19}$	321^{+25}_{-17}	5163^{+2427}_{-915}	$40866^{+149336}_{-25230}$
Alt.	-151±47	$2.28^{+1.31}_{-1.21}$	321^{+23}_{-17}	4937_{-848}^{+2220}	$34346^{+110751}_{-22178}$

 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

