

KIC 011296205

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
011296205-01	OBS	8048.01	379.674145	445.967827	234.5	9.670	7.2	6.9	0.82	6156	1.39	0.89

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011296205-01	OBS	PC	0.33	0	0	0	0	CENT_FEW_DIFFS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

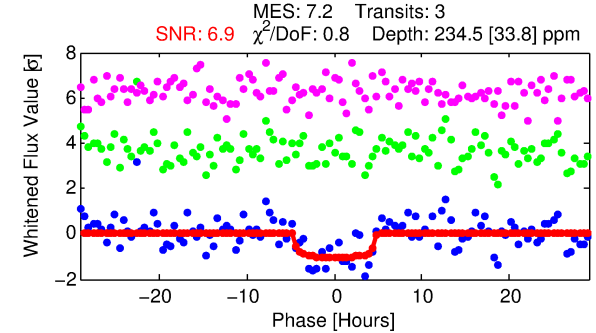
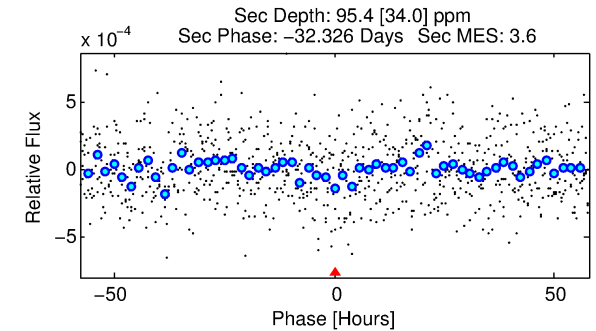
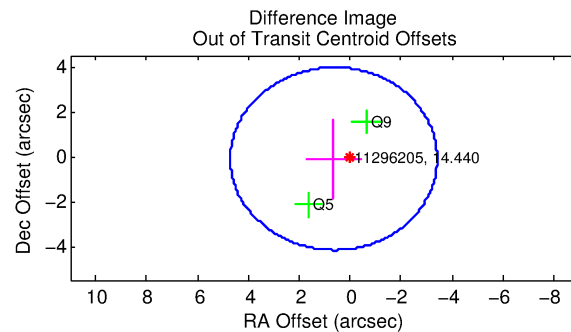
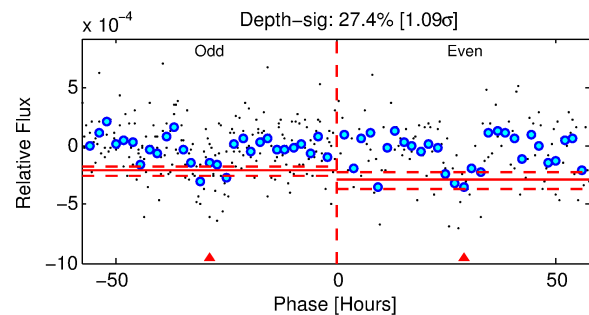
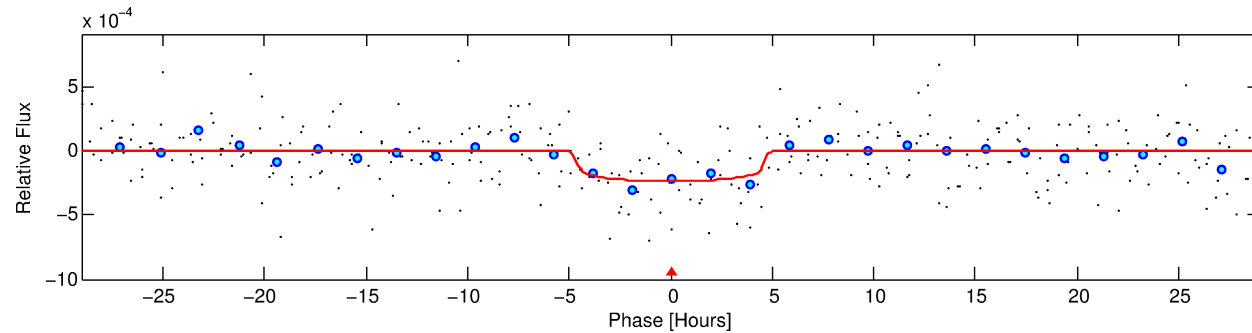
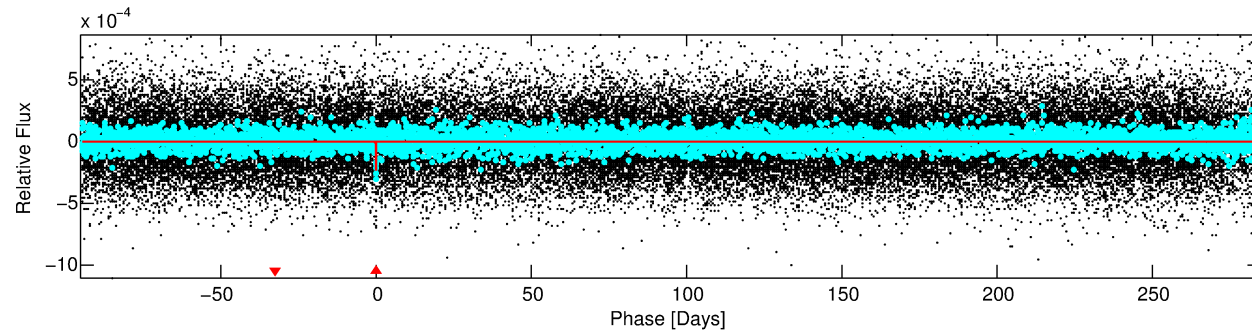
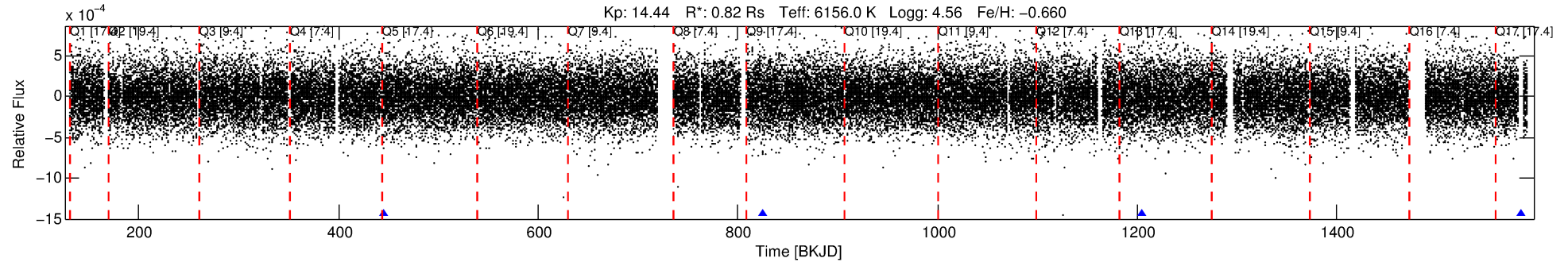
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011296205-01

No Significant Match Found

DV One-Page Summary

KIC: 11296205 Candidate: 1 of 1 Period: 379.674 d



DV Fit Results:

Period = 379.67414 [0.01542] d
Epoch = 445.9678 [0.0193] BKJD
Rp/R* = 0.0154 [0.0078]
a/R* = 192.39 [520.12]
b = 0.79 [1.32]
Seff = 0.89 [0.33]
Teq = 247 [23] K
Rp = 1.39 [0.79] Re
a = 0.9929 [0.2314] AU
Ag = 26892.25 [30219.12] [0.89 σ]
Teffp = 4898 [1316] K [3.53 σ]

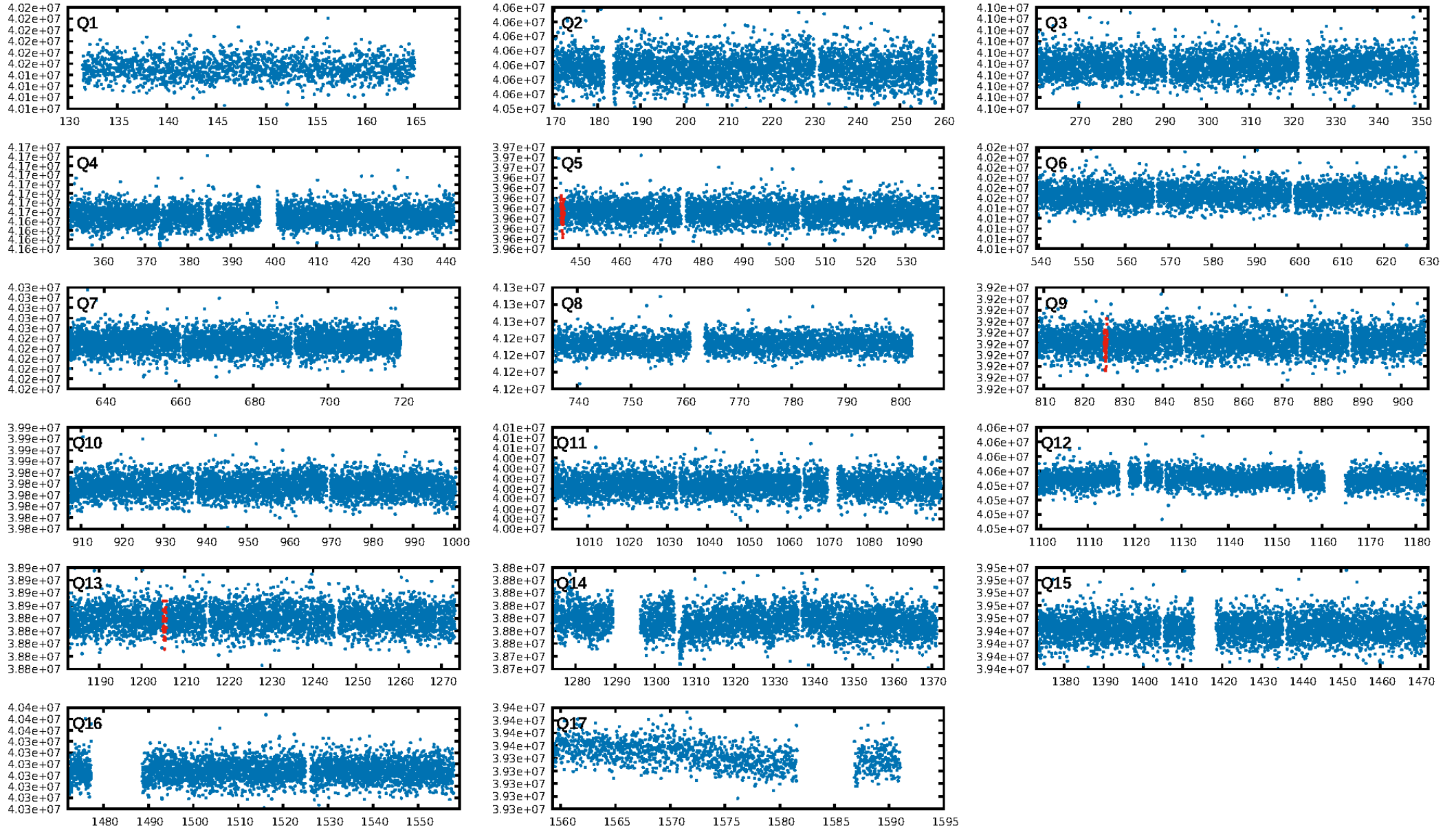
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 75.3%
ModelChiSquareGof-sig: 99.0%
Bootstrap-pfa: 8.29e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -243.1
Centroid-sig: 13.8%
Centroid-so: 2.749 arcsec [1.15 σ]
OotOffset-rm: 0.643 arcsec [0.47 σ]
OotOffset-st: 0/0/0/2 [2]
KicOffset-rm: 0.717 arcsec [0.54 σ]
KicOffset-st: 0/0/0/2 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [2/2]

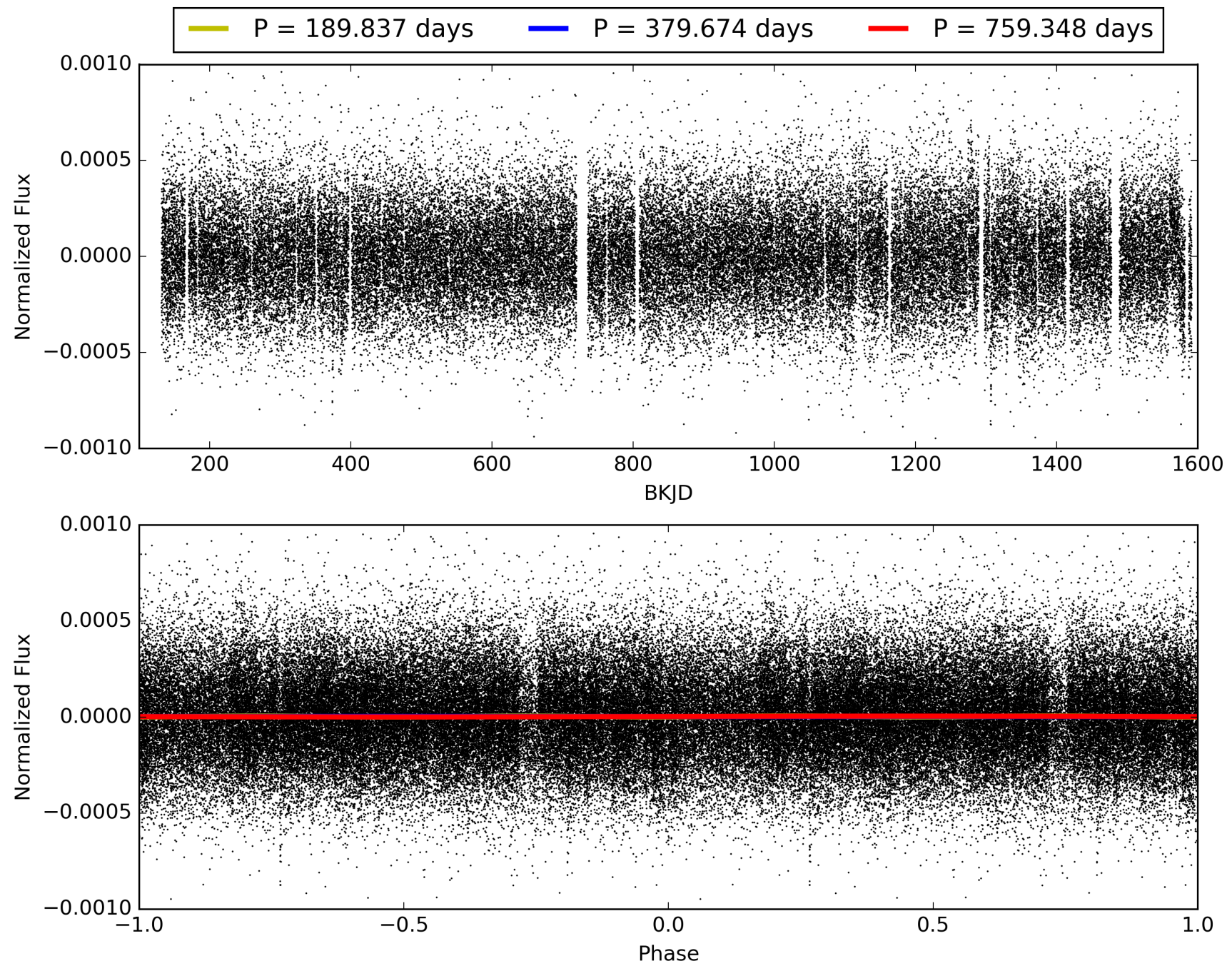
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 21:39:49 Z

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

TCE 011296205-01, PDC Light Curves

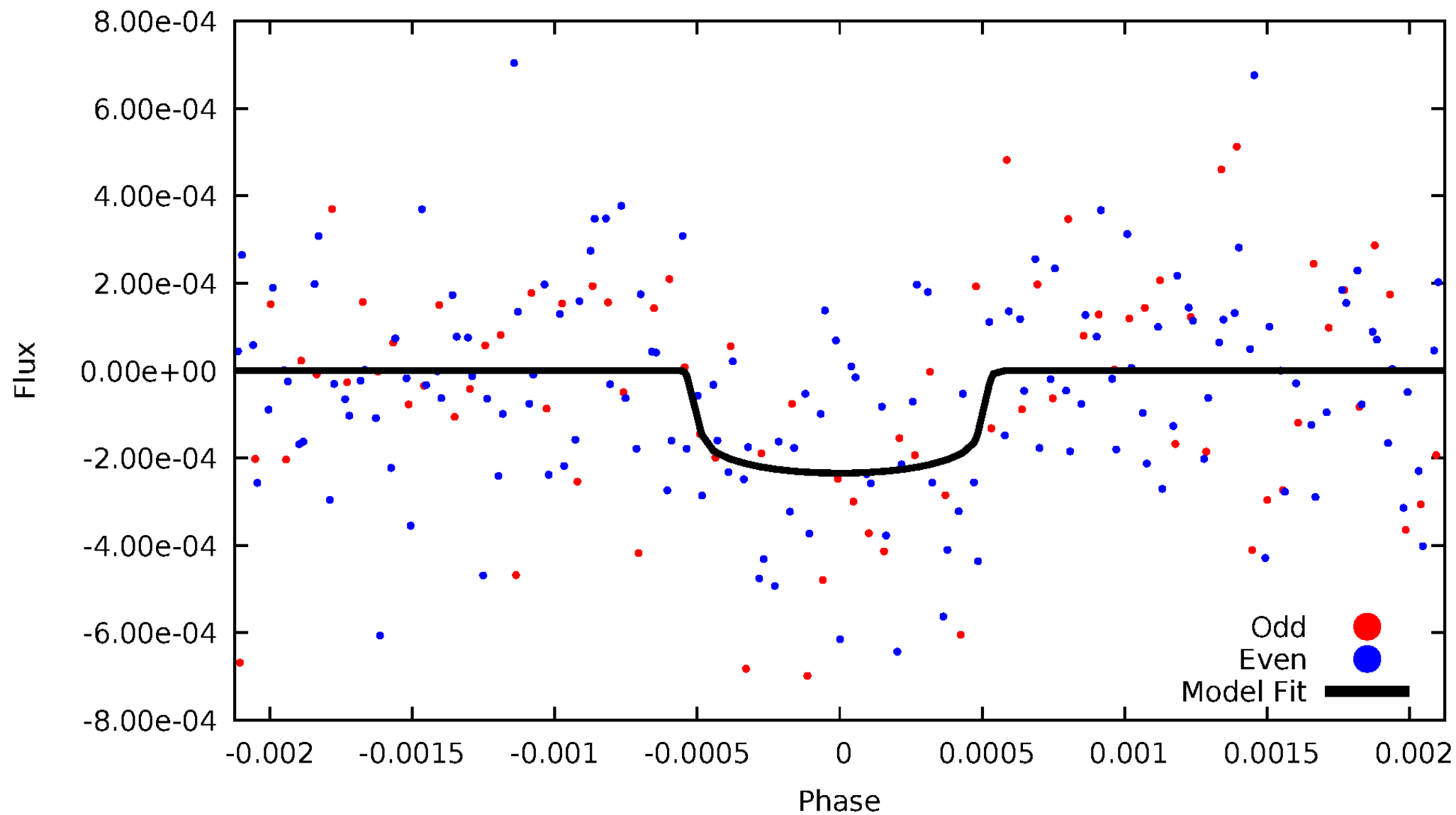


TCE 011296205-01



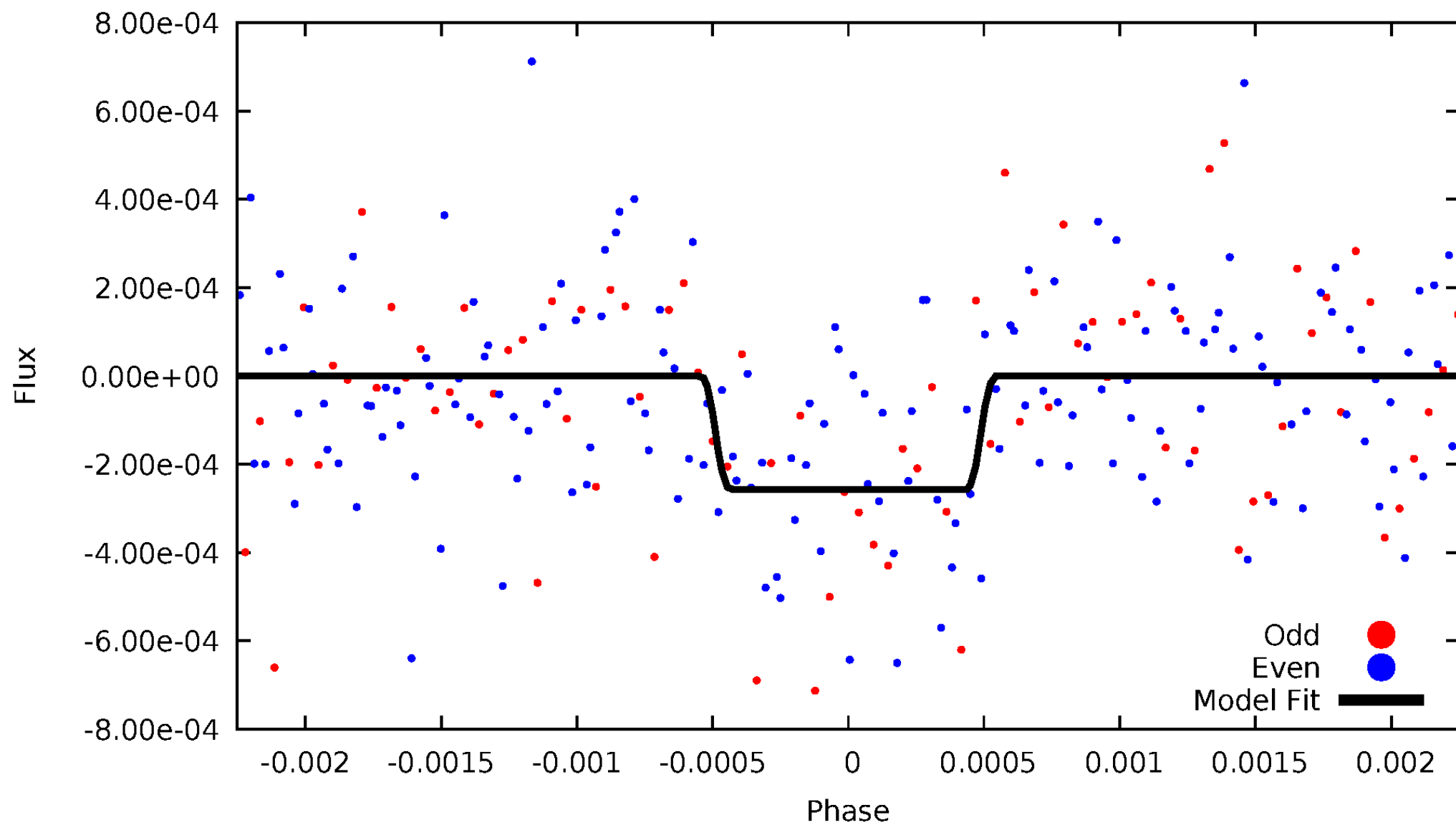
DV Odd/Even

TCE 011296205-01

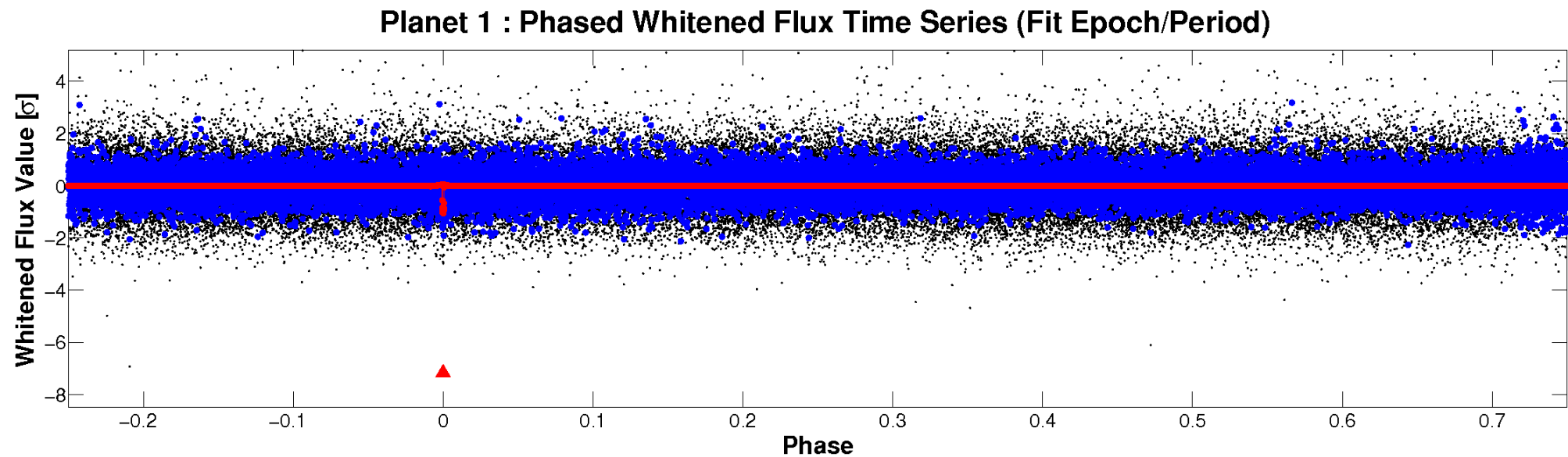
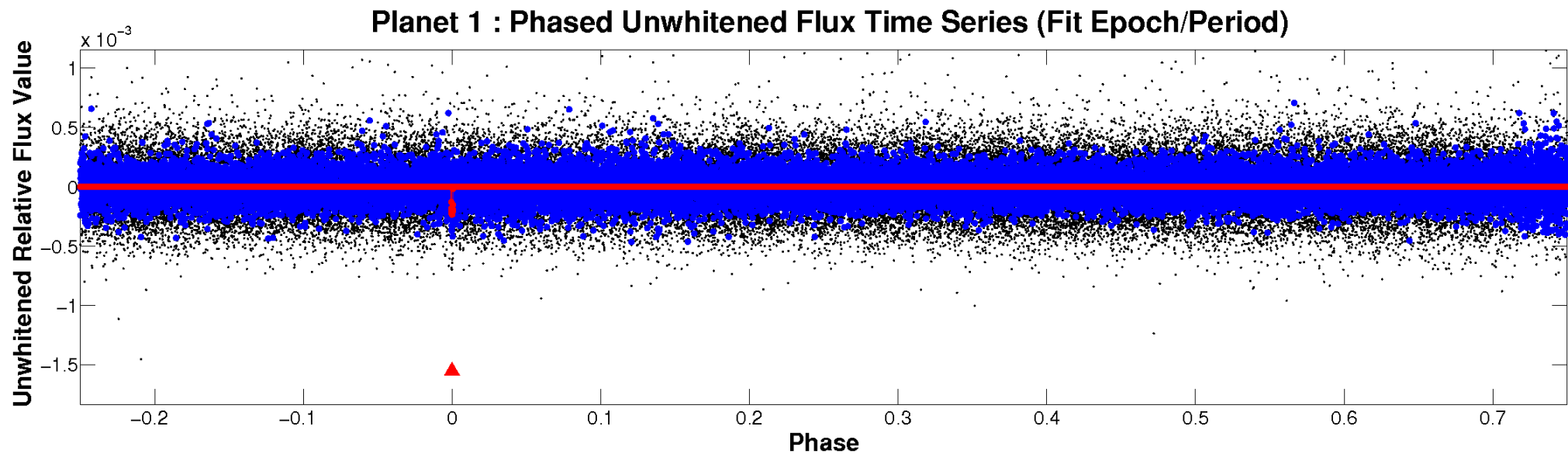


ALT Odd/Even

TCE 011296205-01

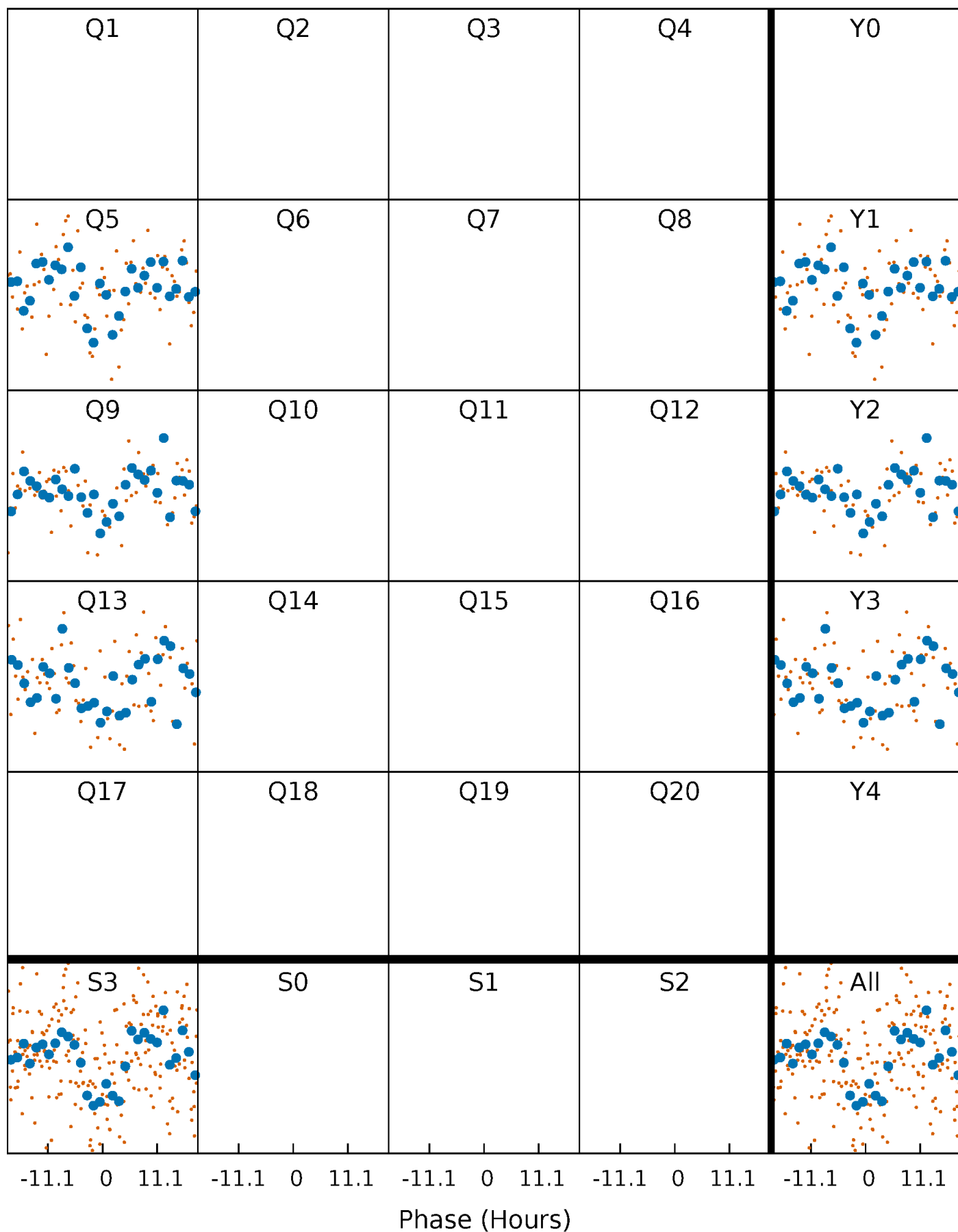


Non-Whitened Vs. Whitened Light Curve



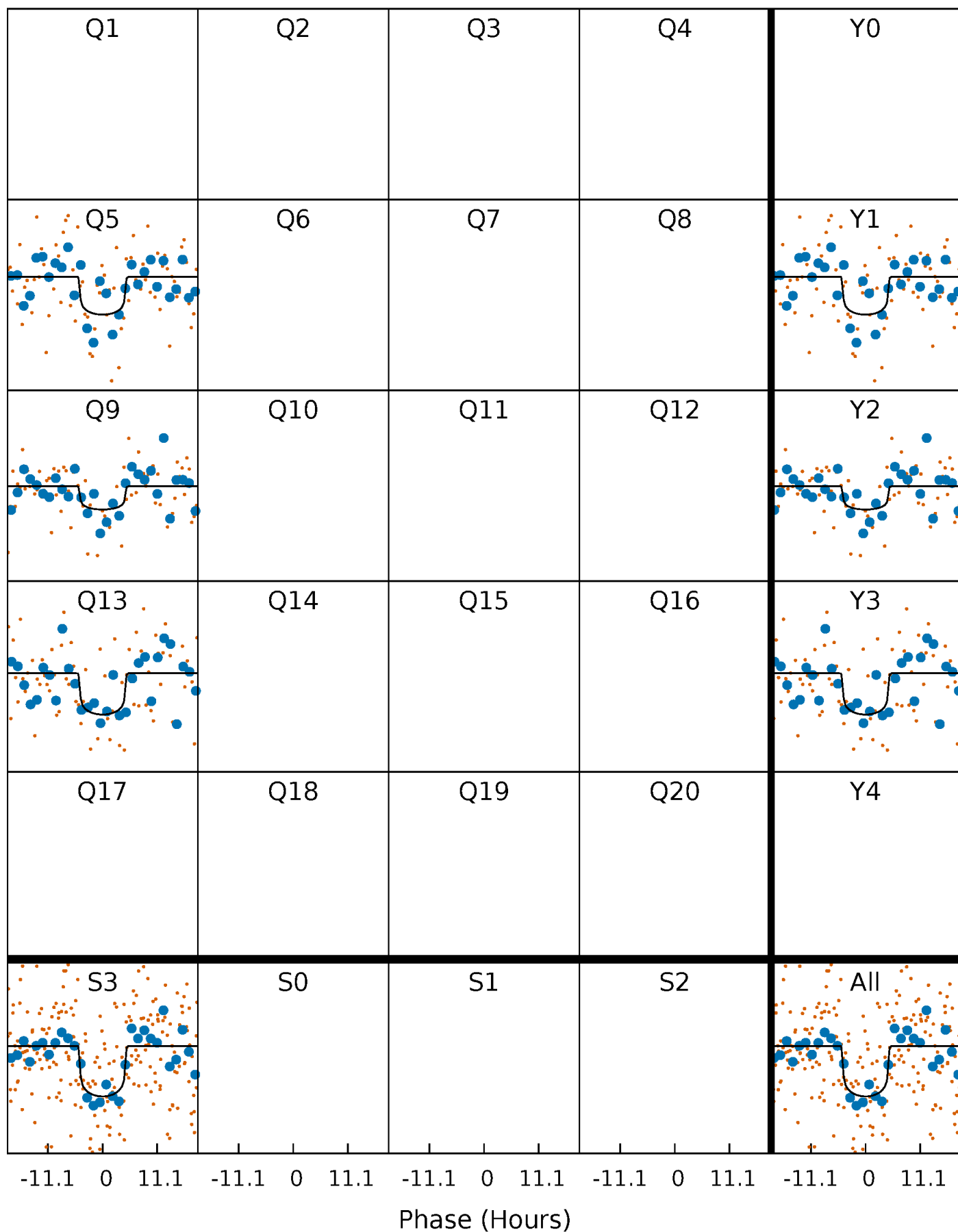
PDC Quarter-Phased Transit Curves

TCE 011296205-01 P=379.674145 Days $T_0=445.967827$ (BKJD)



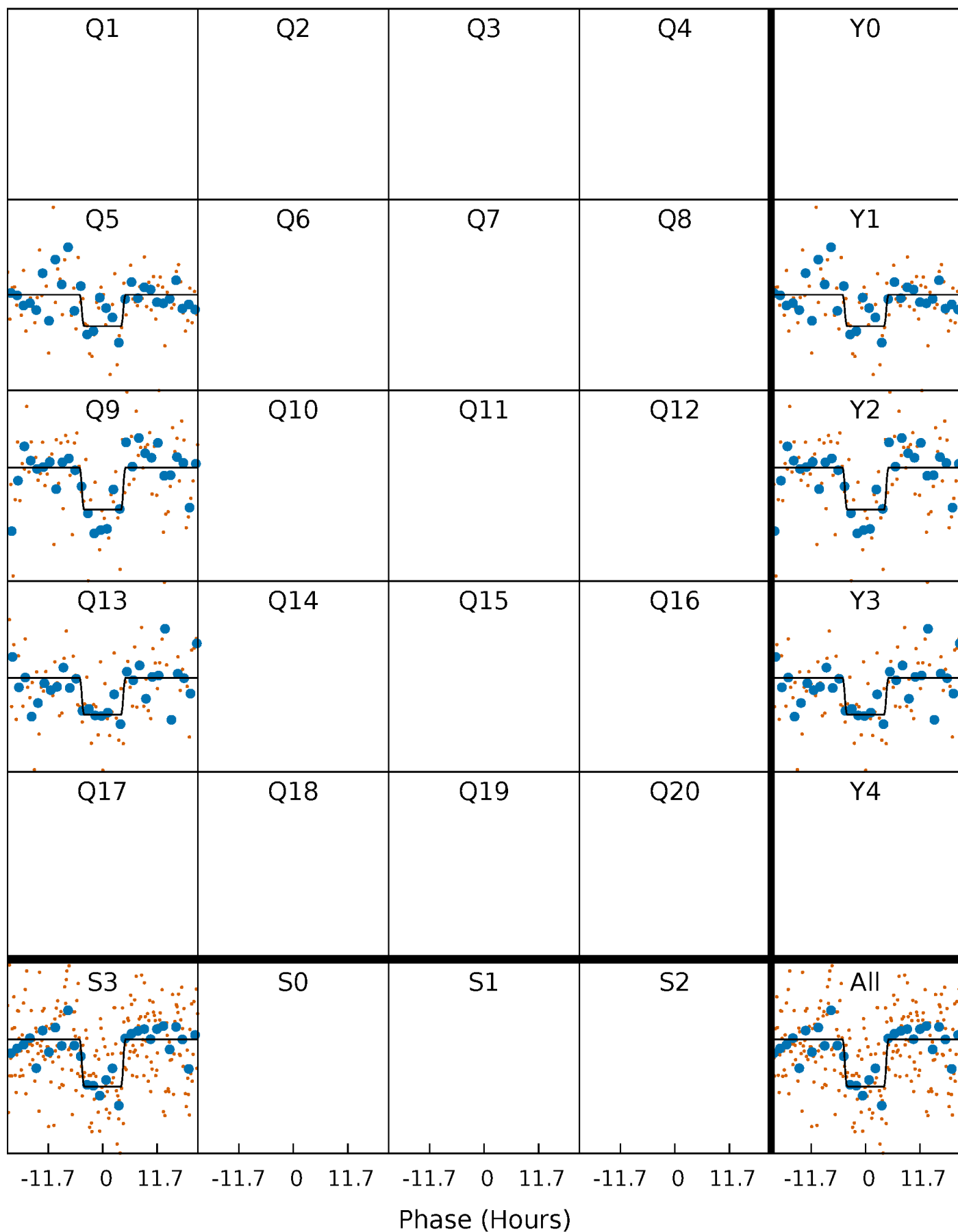
DV Quarter-Phased Transit Curves

TCE 011296205-01 P=379.674145 Days $T_0=445.967827$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

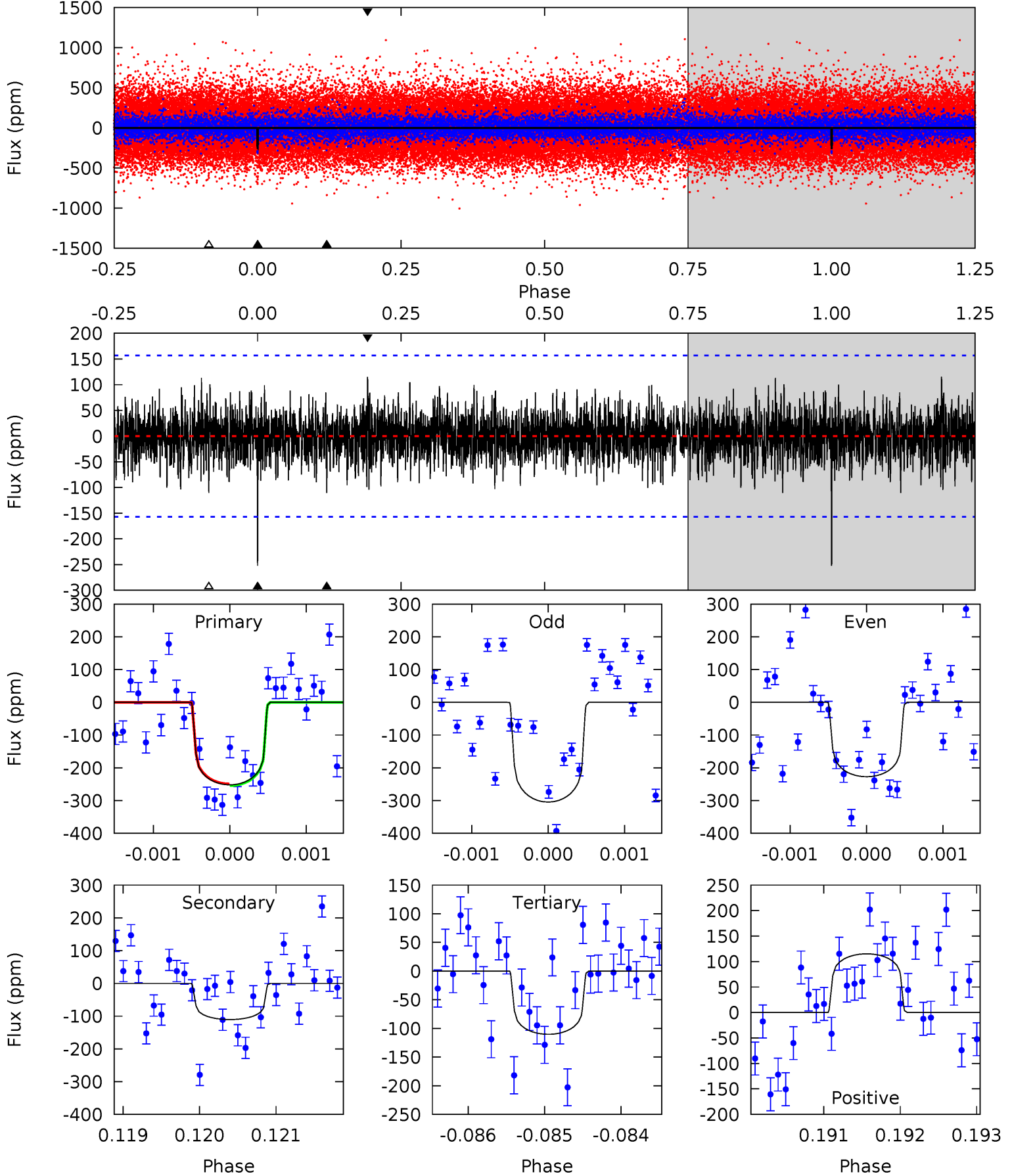
TCE 011296205-01 P=379.669167 Days $T_0=445.976305$ (BKJD)



DV Model-Shift Uniqueness Test

011296205-01, P = 379.674145 Days, E = 66.293682 Days

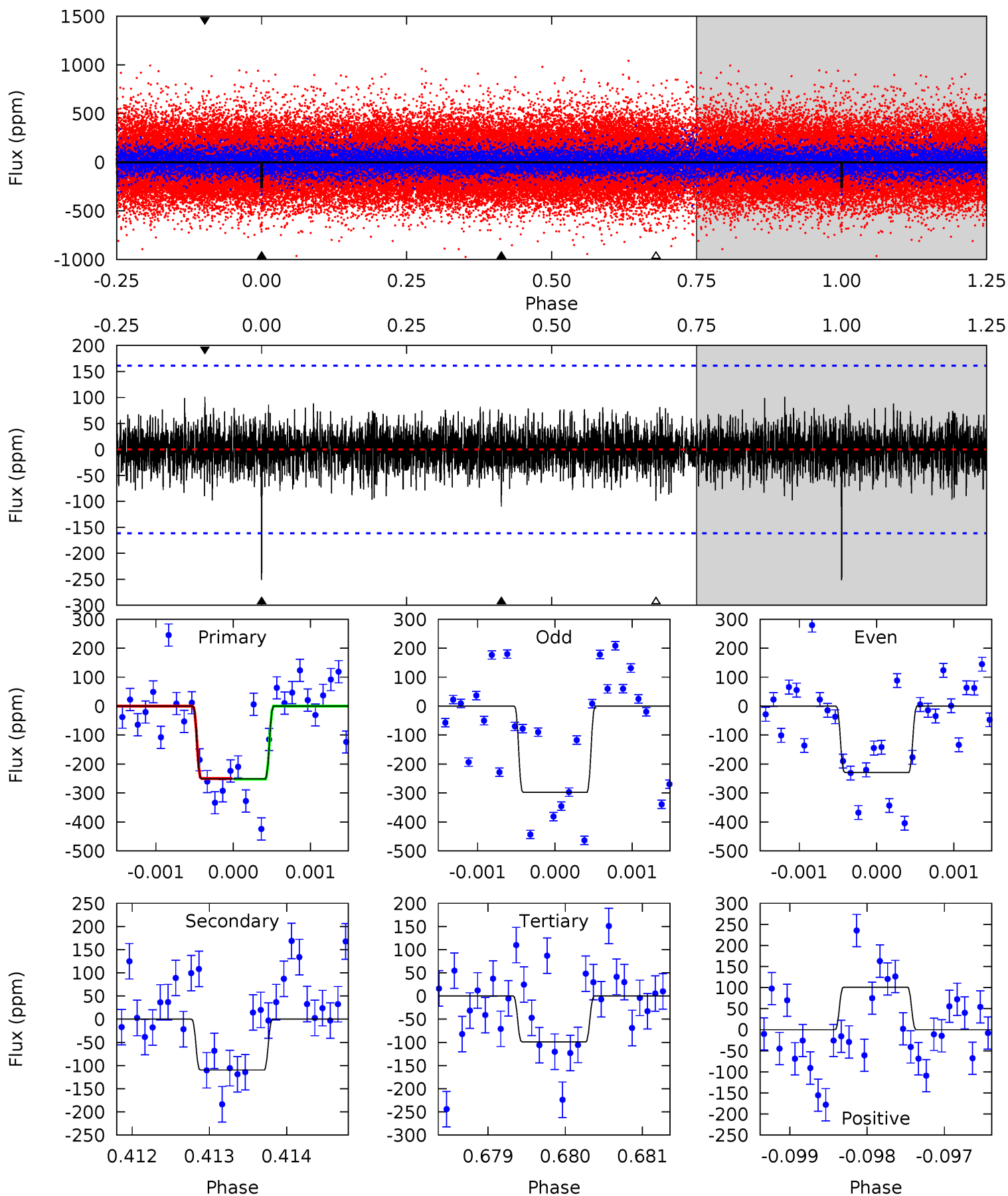
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.72	3.82	3.82	3.99	5.44	3.27	1.11	4.91	4.74	0.00	-0.16	1.27	1.11	0.31	0.08



Alt Model-Shift Uniqueness Test

011296205-01, $P = 379.669167$ Days, $E = 66.307138$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.48	3.70	3.33	3.41	5.44	3.28	0.93	5.15	5.07	0.37	0.29	1.09	1.07	0.29	0.04



Stellar Parameters For KIC 011296205

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6156^{+167}_{-186}	$4.563^{+0.035}_{-0.196}$	$-0.660^{+0.300}_{-0.300}$	$0.824^{+0.220}_{-0.073}$	$0.906^{+0.084}_{-0.103}$	$2.278^{+0.417}_{-1.170}$
	+3%/-3%	+1%/-4%	+45%/-45%	+27%/-9%	+9%/-11%	+18%/-51%
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 011296205-01 / KOI 8048.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-110 ± 29	$1.52^{+0.76}_{-0.71}$	354^{+23}_{-15}	5028^{+1919}_{-808}	24570^{+65925}_{-14233}
Alt.	-110 ± 30	$1.53^{+0.74}_{-0.72}$	354^{+24}_{-15}	5068^{+1755}_{-818}	24980^{+60744}_{-14701}

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 $A_{obs} \gg 1.0$

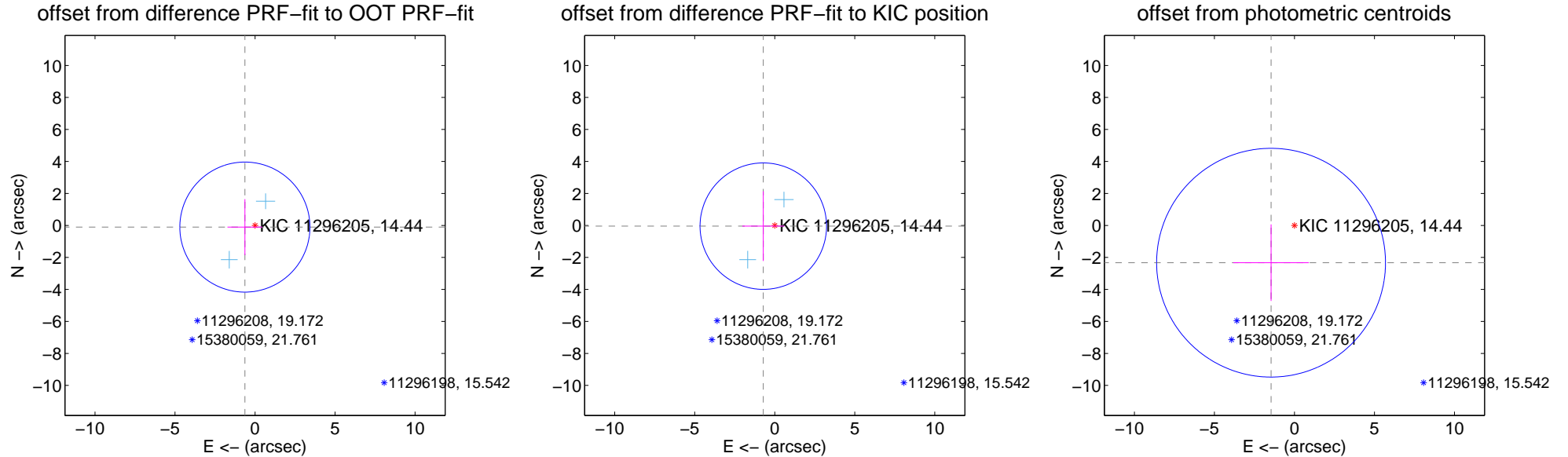
DV Centroid Data

Supplemental centroid analysis for 011296205-01. Kepler magnitude: 14.44. Transit SNR 6.89

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.643 ± 1.355	0.47	0.634 ± 1.088	-0.103 ± 1.750
PRF-fit source offset from KIC position	0.717 ± 1.317	0.54	0.715 ± 1.313	-0.044 ± 2.180
photometric centroid source offset	2.75 ± 2.38	1.15	1.46 ± 2.36	-2.33 ± 2.39

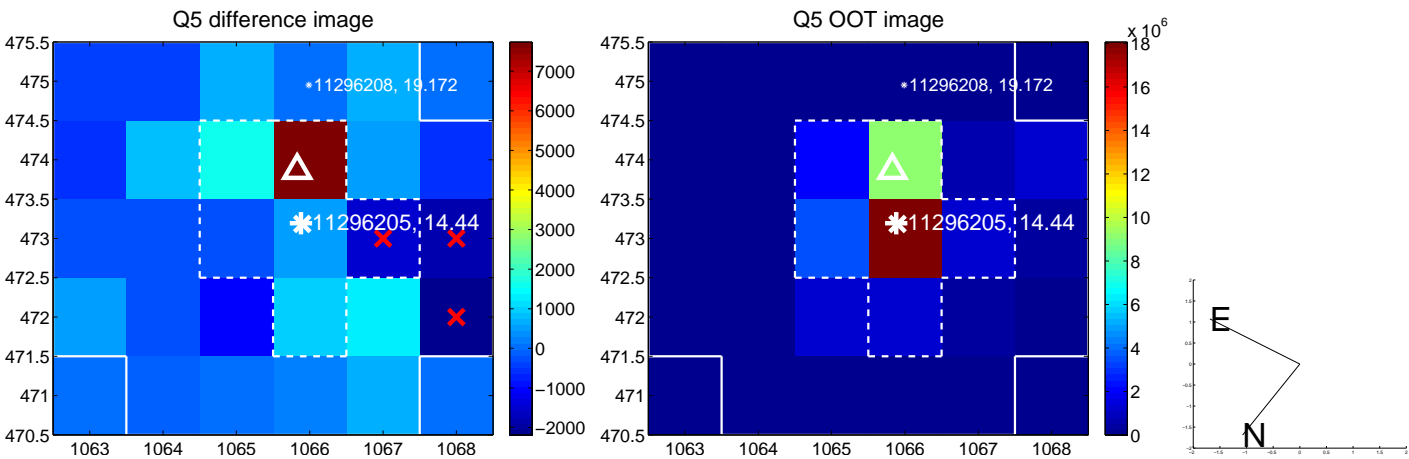


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

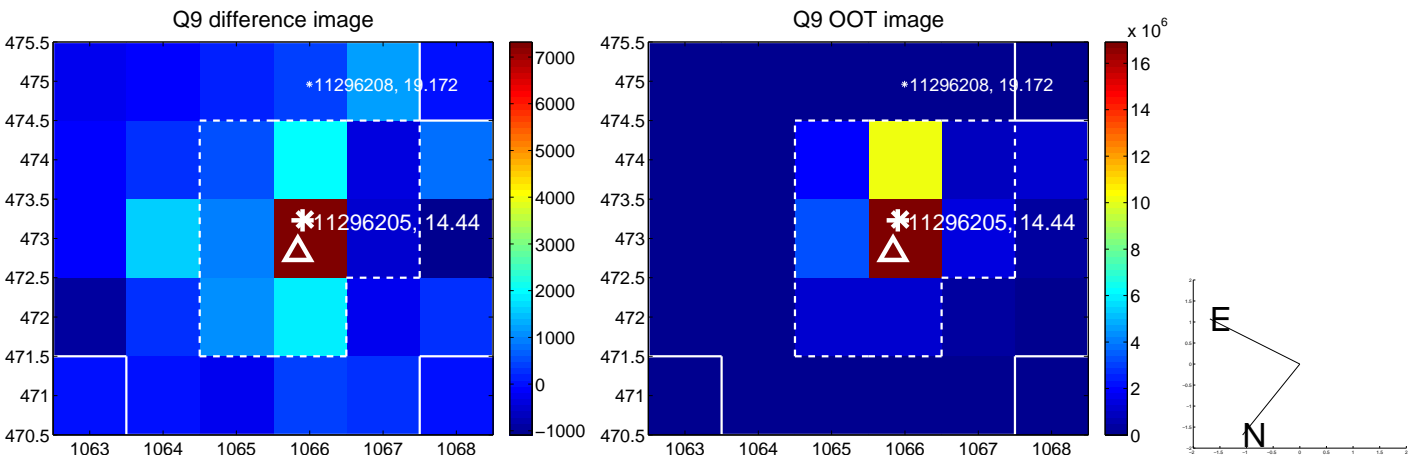
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



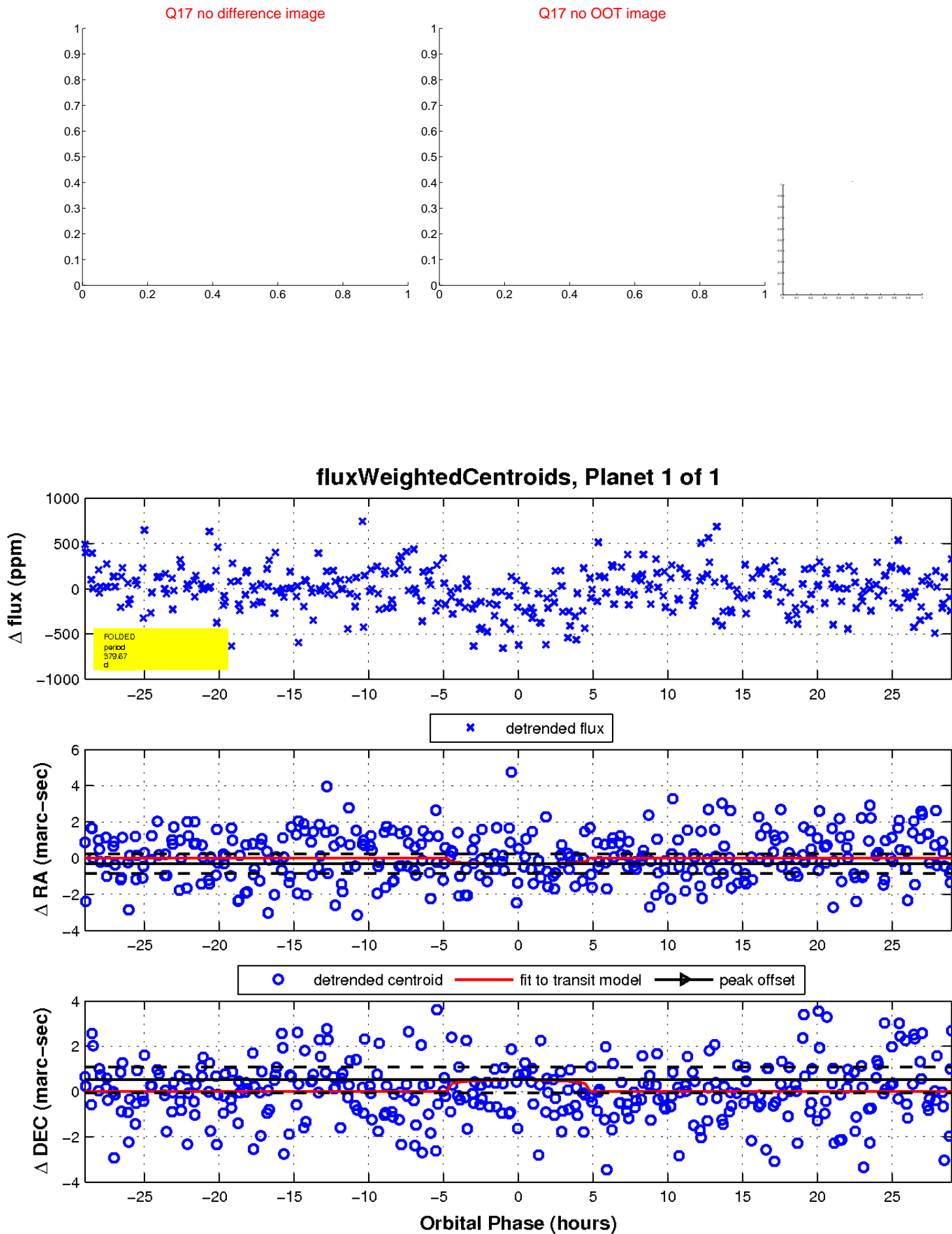
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

