

KIC 007605187

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})
007605187-01	OBS	No	292.001818	218.415452	139.3	11.671	7.1	5.9	0.97	6328	1.30	1.87

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007605187-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—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.

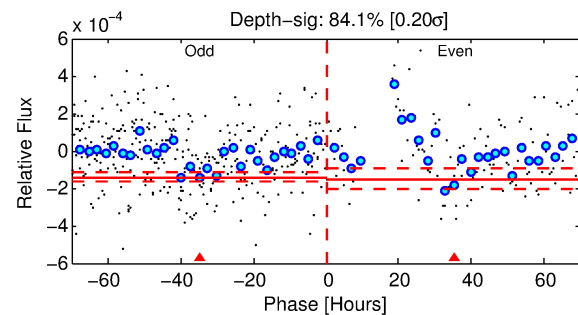
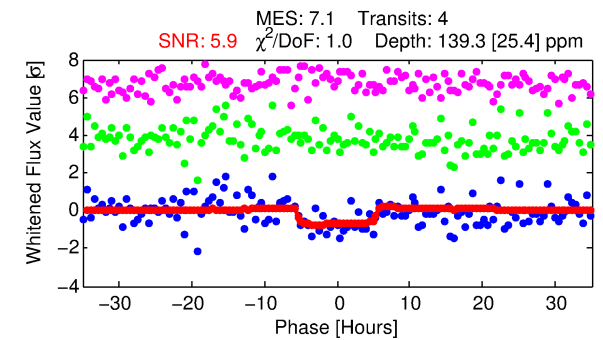
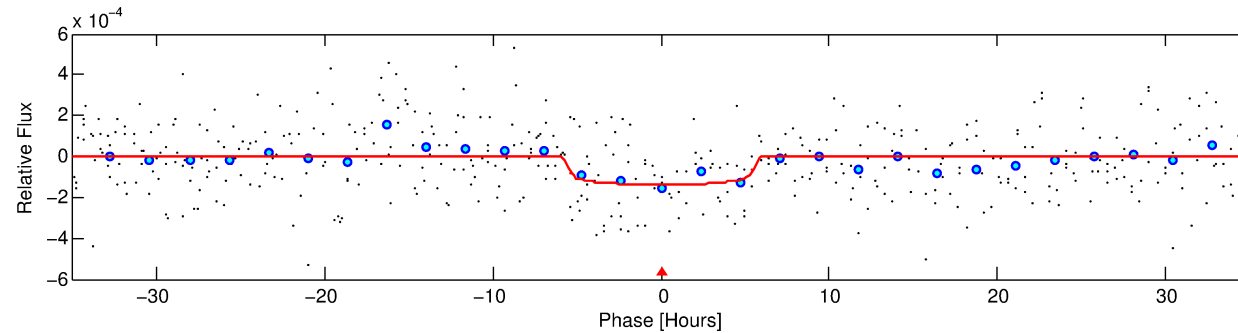
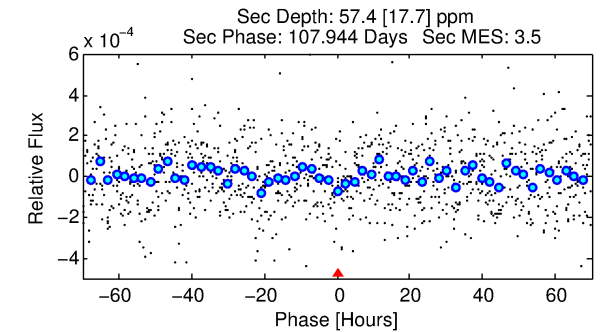
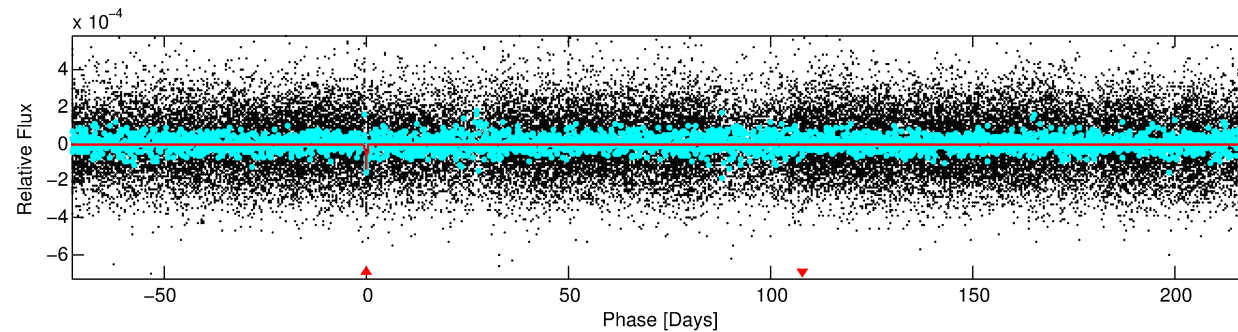
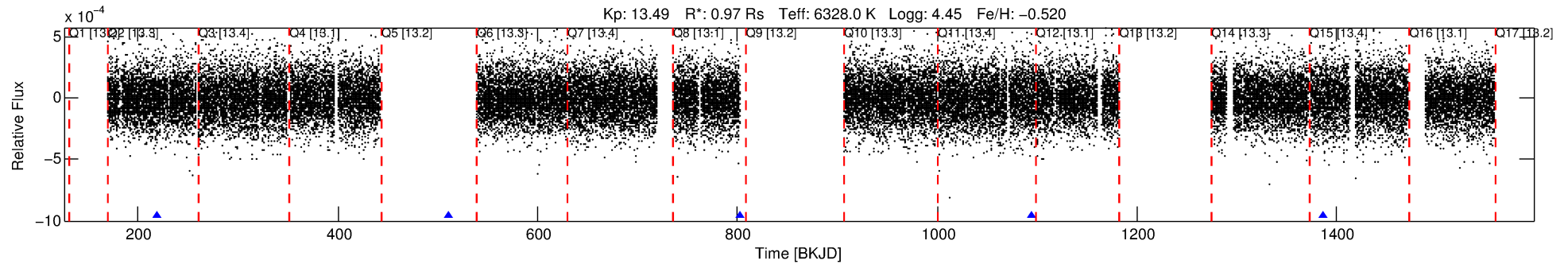
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007605187-01

No Significant Match Found

DV One-Page Summary

KIC: 7605187 Candidate: 1 of 1 Period: 292.002 d



DV Fit Results:

Period = 292.00182 [0.01033] d
Epoch = 218.4155 [0.0283] BKJD
Rp/R* = 0.0123 [0.0045]
a/R* = 101.19 [204.34]
b = 0.86 [0.60]
Seff = 1.87 [0.73]
Teq = 298 [29] K
Rp = 1.30 [0.61] Re
a = 0.8520 [0.2094] AU
Ag = 13456.99 [11672.87] [1.15σ]
Teffp = 4963 [999] K [4.67σ]

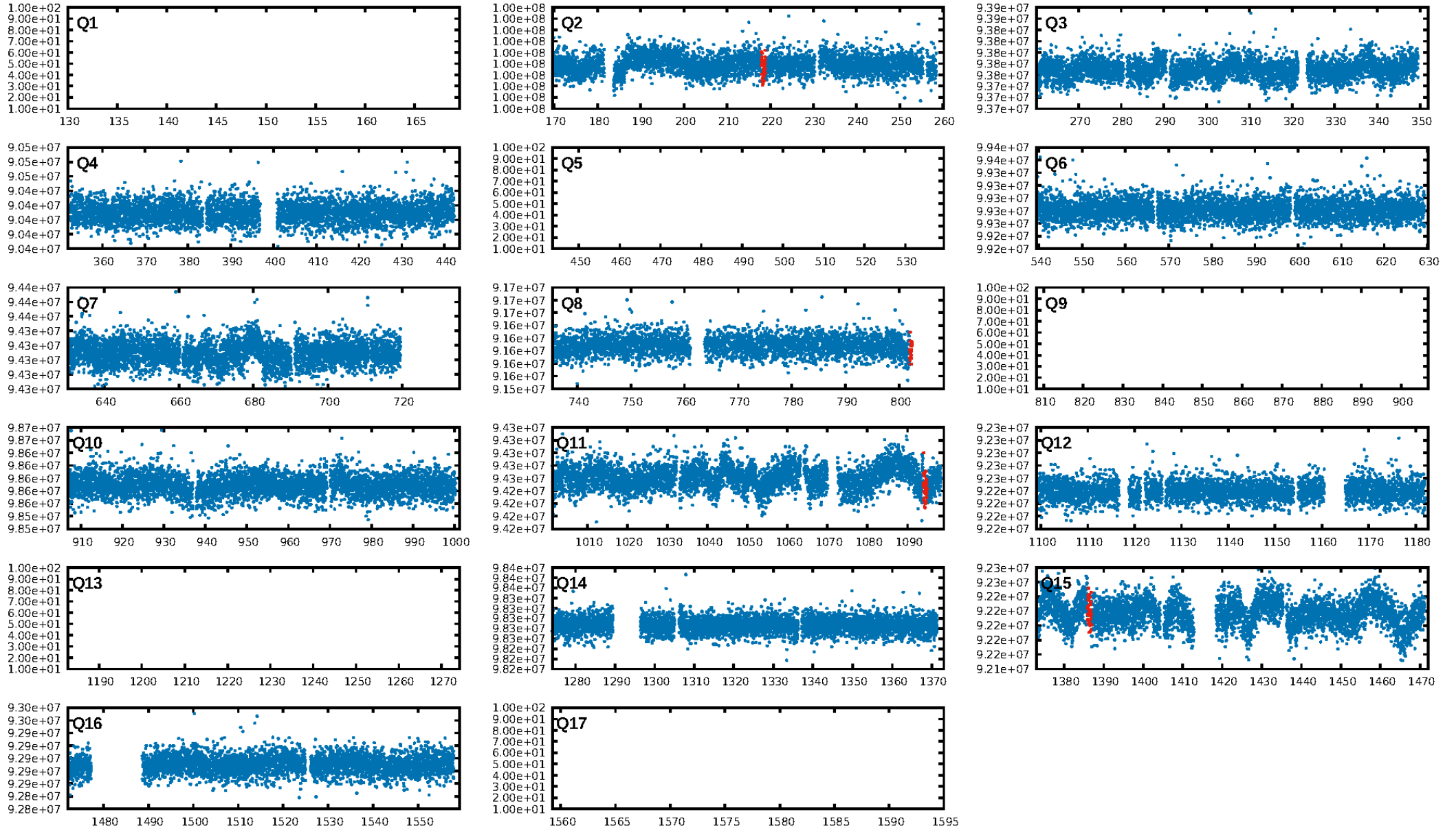
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 2.8%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.66e-10
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.8486
Centroid-sig: 36.2%
Centroid-so: 2.635 arcsec [1.05σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [1/1]

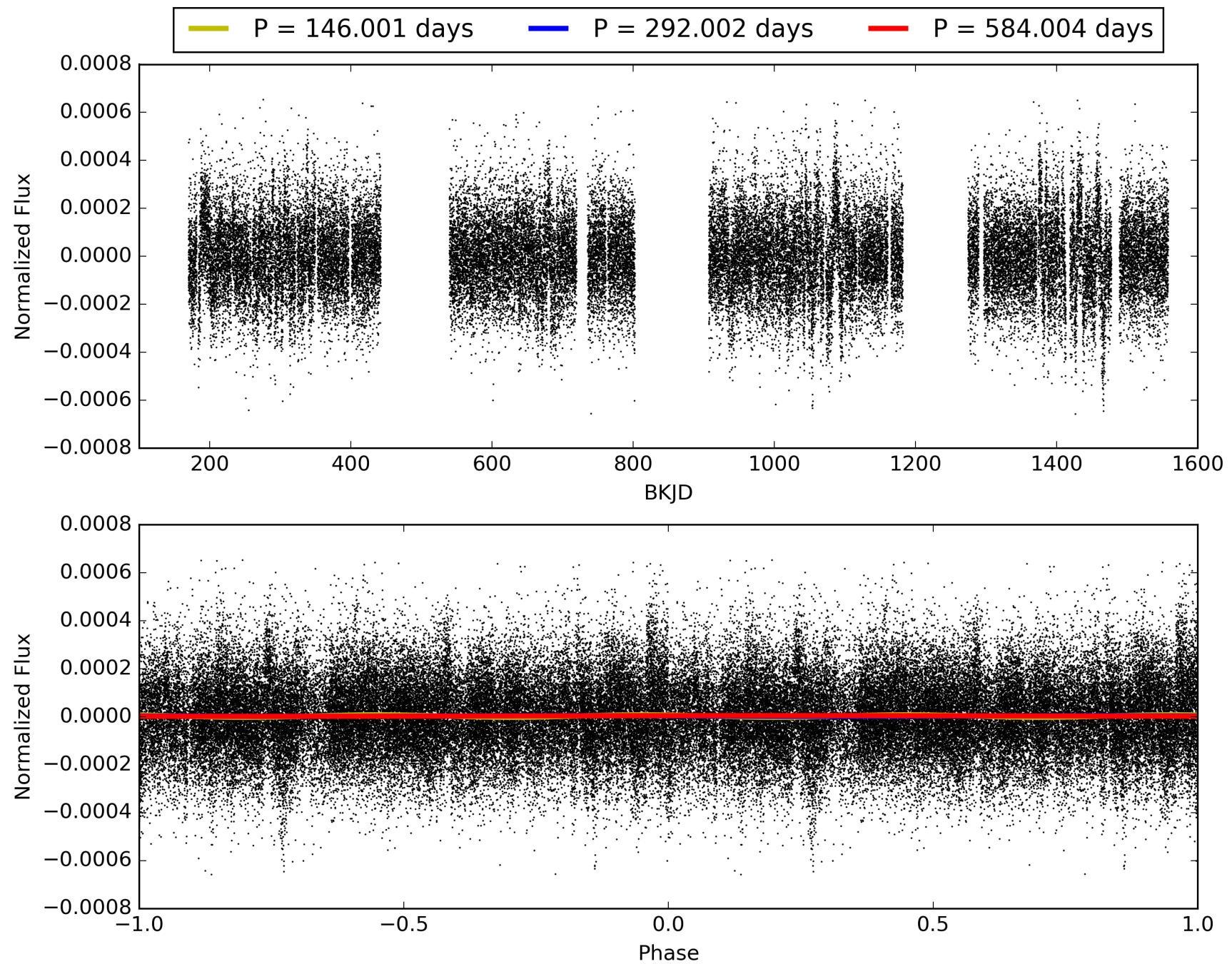
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 11:26:27 Z

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

TCE 007605187-01, PDC Light Curves

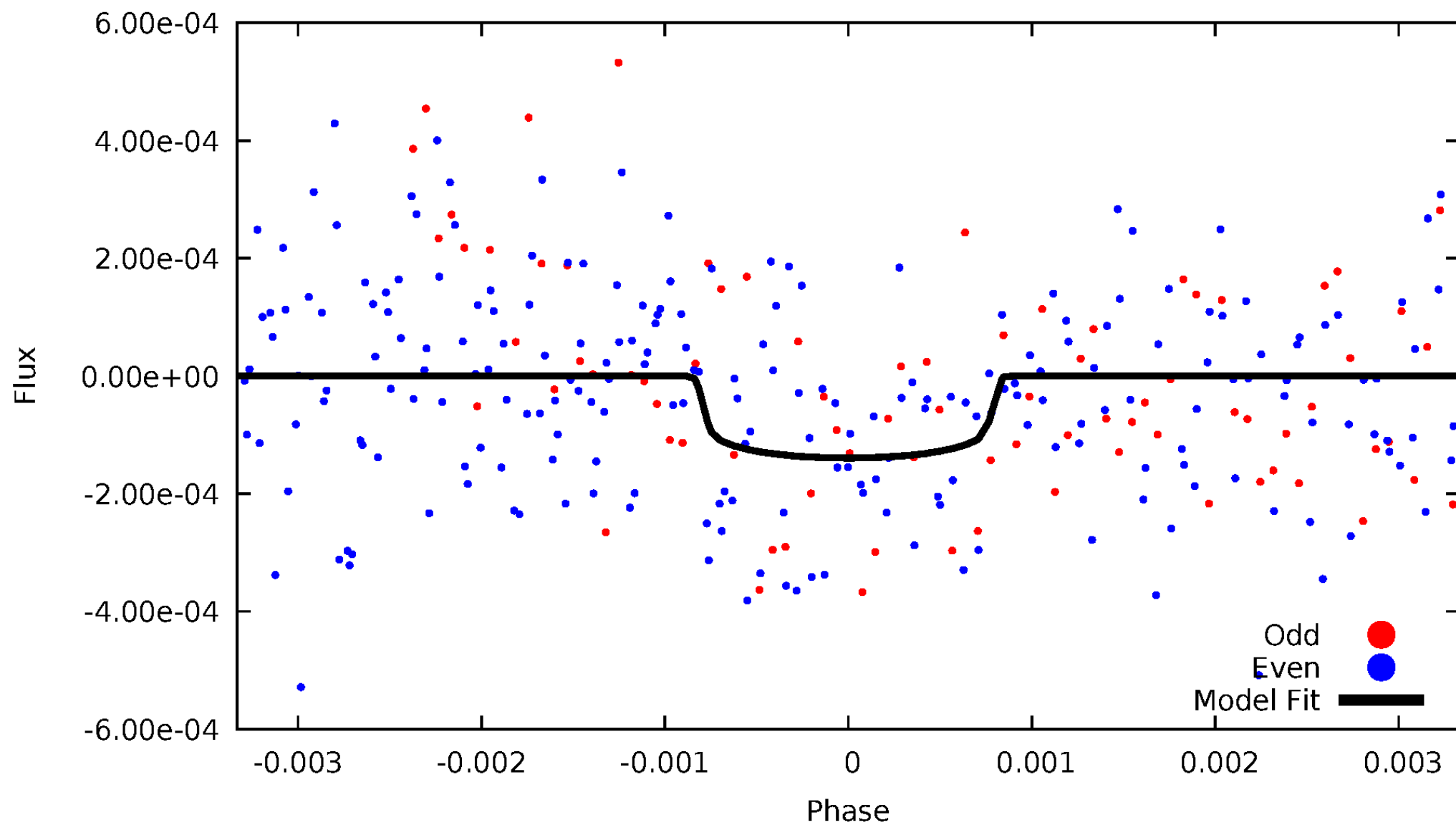


TCE 007605187-01



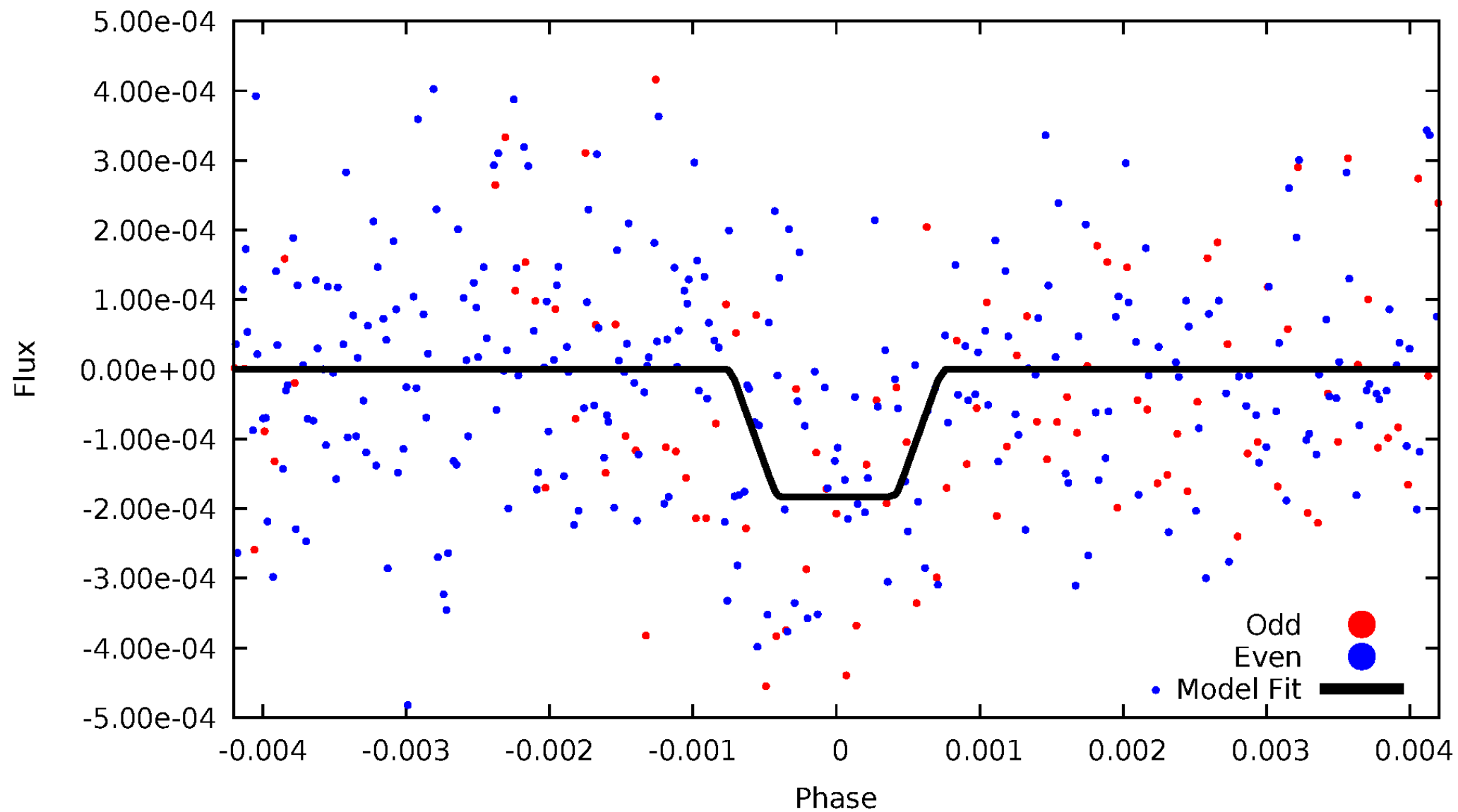
DV Odd/Even

TCE 007605187-01



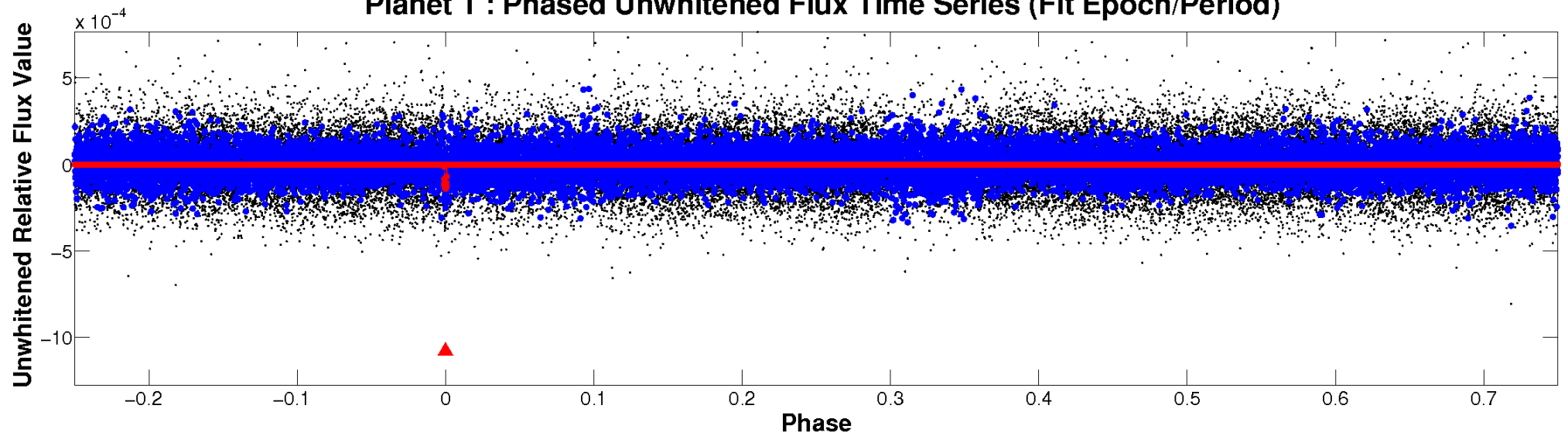
ALT Odd/Even

TCE 007605187-01

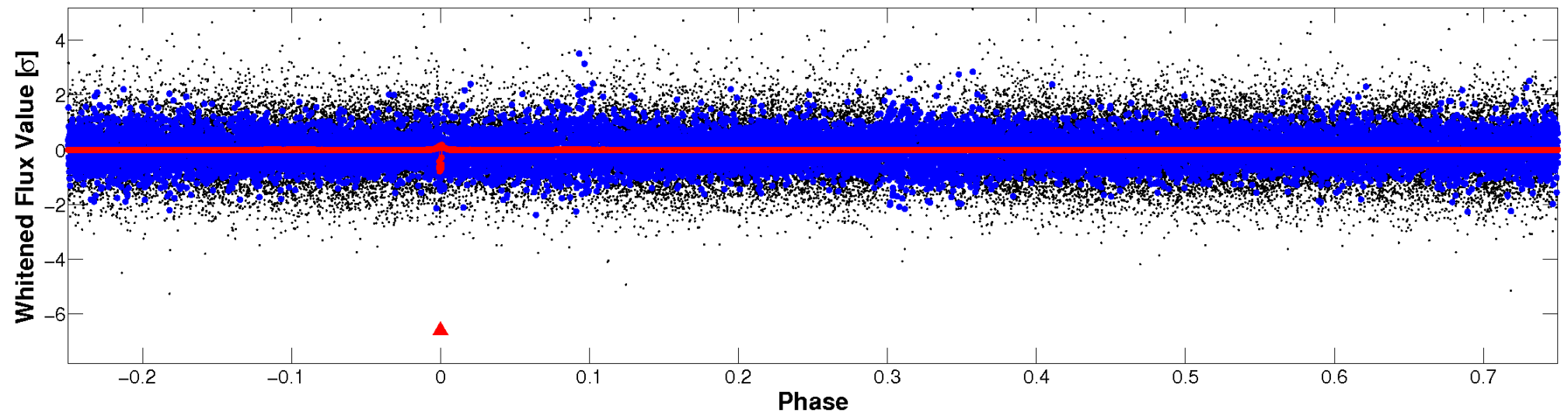


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

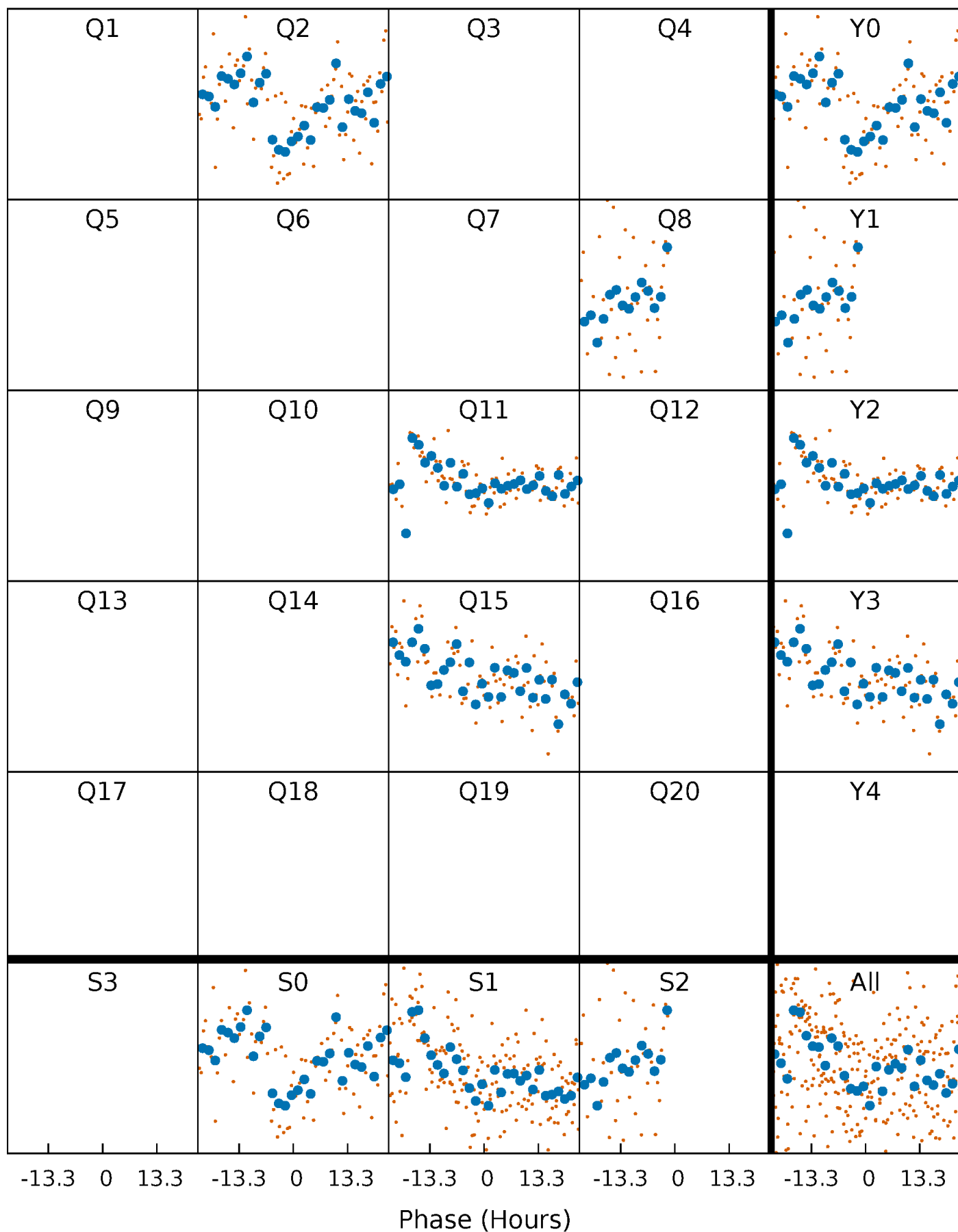


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



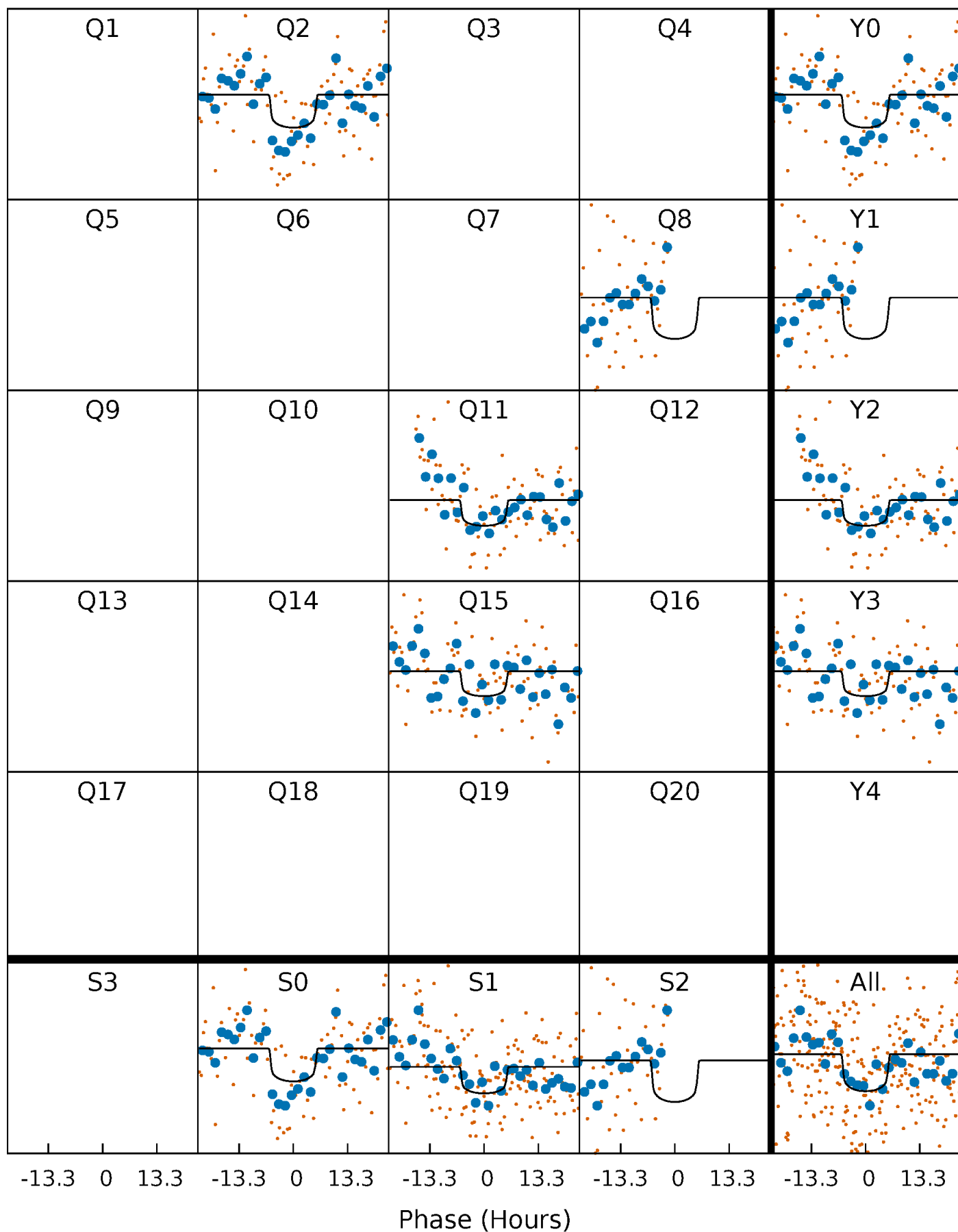
PDC Quarter-Phased Transit Curves

TCE 007605187-01 P=292.001818 Days $T_0=218.415452$ (BKJD)



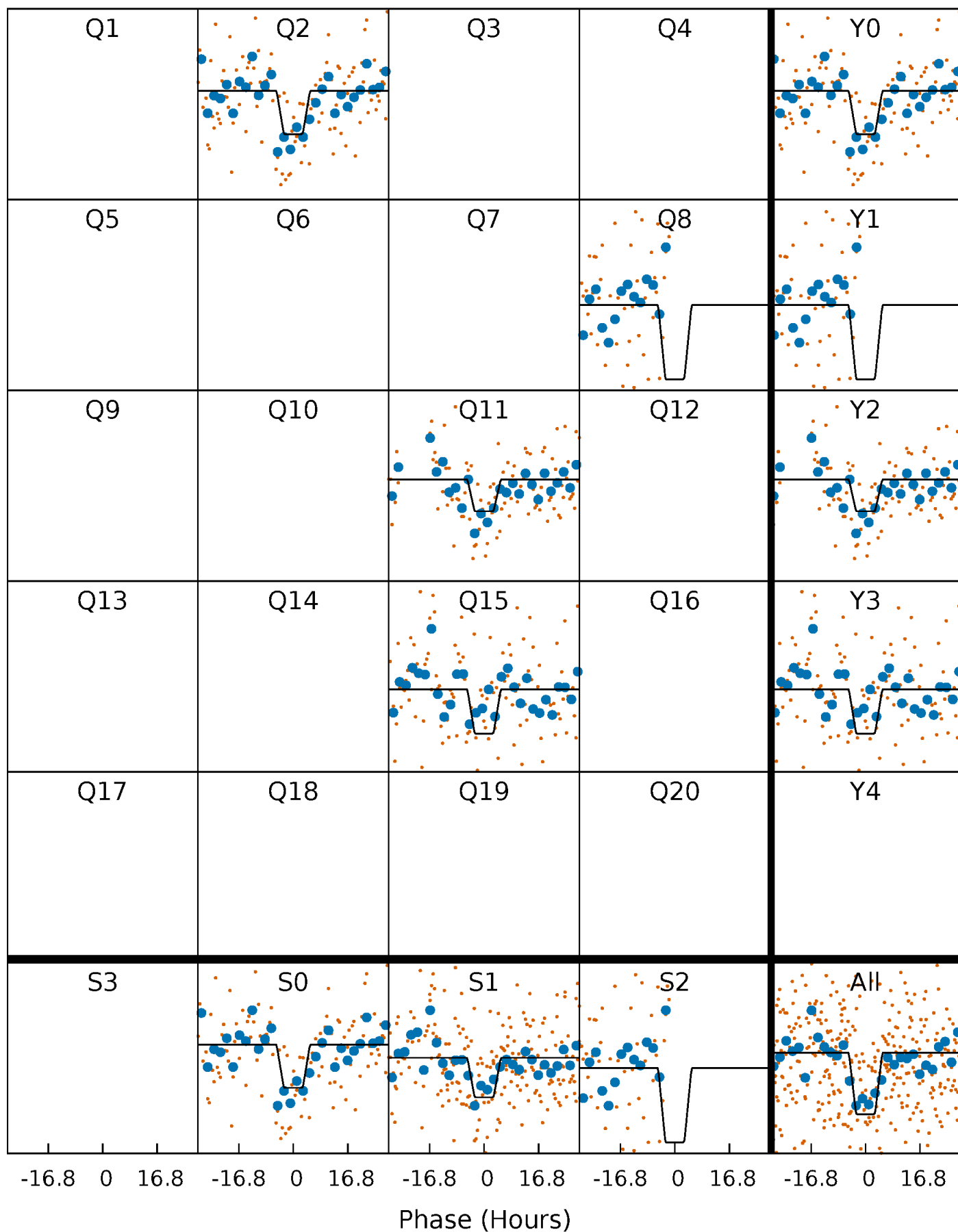
DV Quarter-Phased Transit Curves

TCE 007605187-01 P=292.001818 Days $T_0=218.415452$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

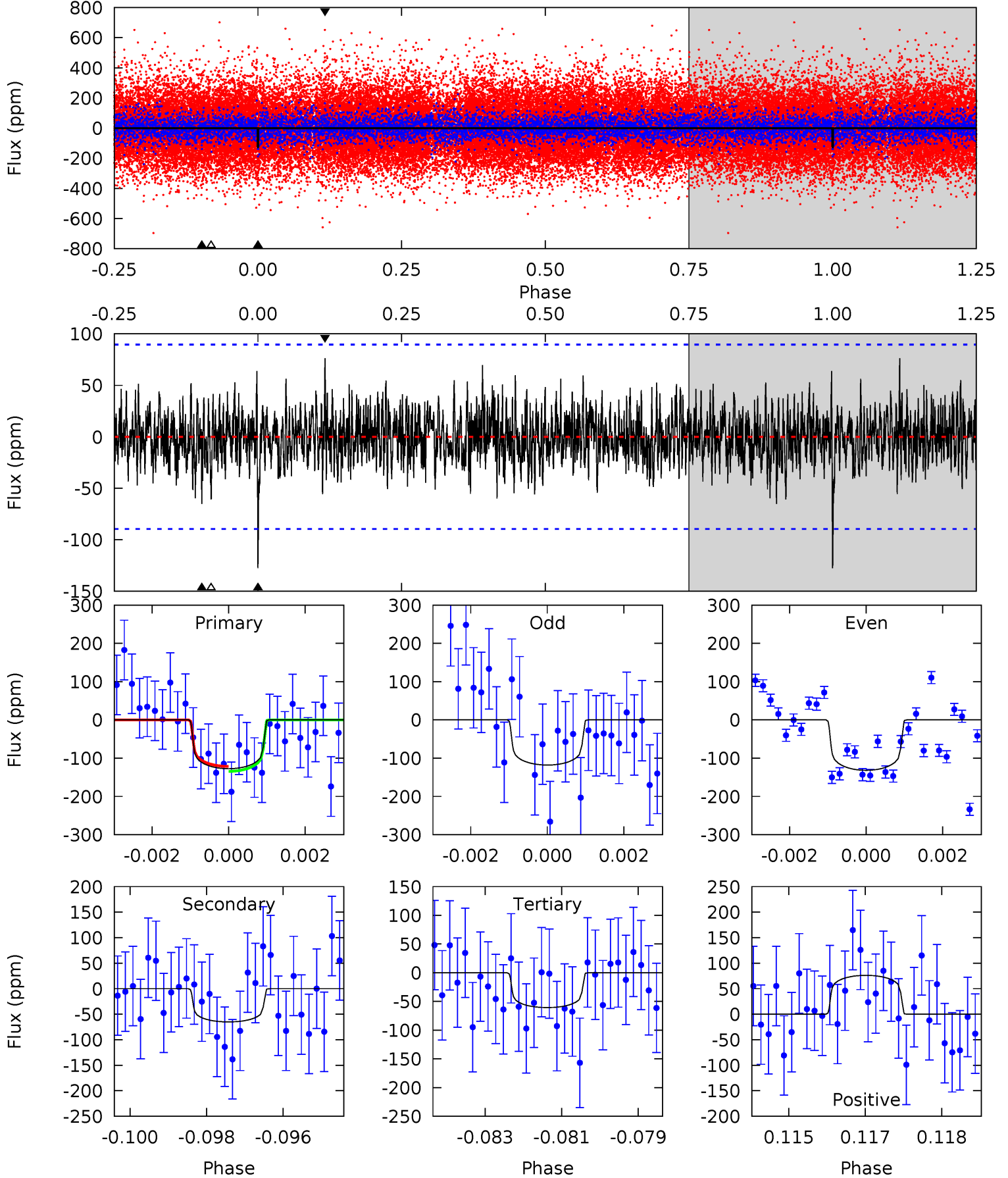
TCE 007605187-01 P=292.002384 Days $T_0=218.415709$ (BKJD)



DV Model-Shift Uniqueness Test

007605187-01, P = 292.001818 Days, E = 218.415452 Days

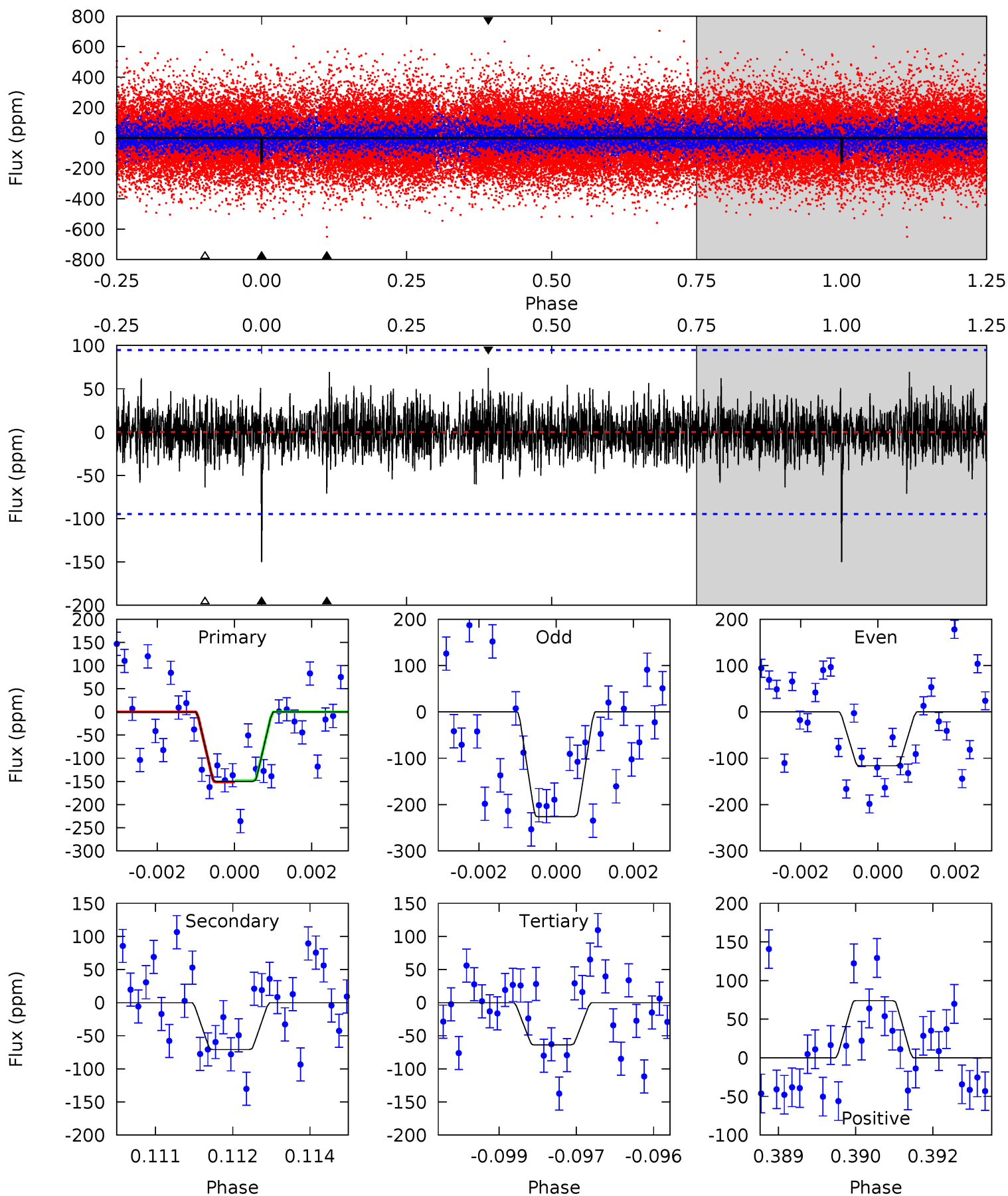
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.64	3.90	3.63	4.56	5.36	3.14	1.18	4.00	3.07	0.27	-0.66	0.38	0.81	0.37	0.38



Alt Model-Shift Uniqueness Test

007605187-01, $P = 292.002384$ Days, $E = 218.415709$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.52	4.02	3.62	4.20	5.38	3.17	1.05	4.90	4.32	0.40	-0.18	2.87	0.70	0.33	0.07



Stellar Parameters For KIC 007605187

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6328^{+177}_{-244}	$4.449^{+0.084}_{-0.196}$	$-0.520^{+0.300}_{-0.300}$	$0.971^{+0.283}_{-0.121}$	$0.968^{+0.134}_{-0.110}$	$1.488^{+0.540}_{-0.772}$
	+3%/-4%	+2%/-4%	+58%/-58%	+29%/-12%	+14%/-11%	+36%/-52%
Source	KIC0	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 007605187-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-65 ± 17	$1.37^{+0.53}_{-0.50}$	419^{+32}_{-23}	5135^{+1157}_{-696}	14044^{+19118}_{-7353}
Alt.	-71 ± 18	$1.50^{+0.57}_{-0.54}$	421^{+29}_{-24}	4978^{+1078}_{-629}	12054^{+17075}_{-6010}

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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

DV Centroid Data

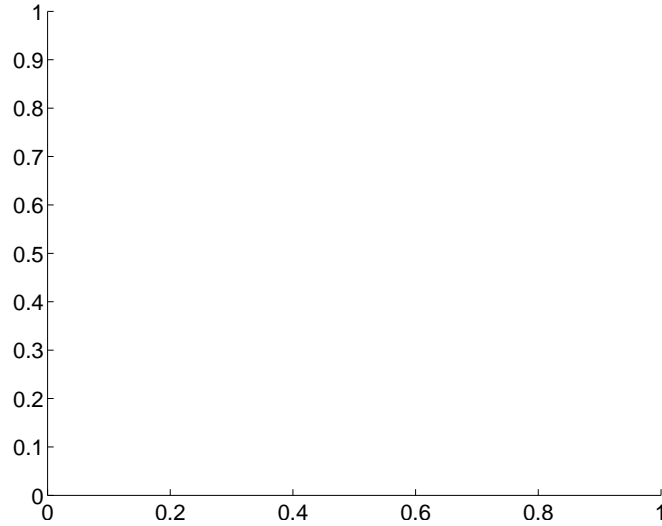
Supplemental centroid analysis for 007605187-01. Kepler magnitude: 13.49. Transit SNR 5.91

There are 0 quarters with good PRF difference image offsets

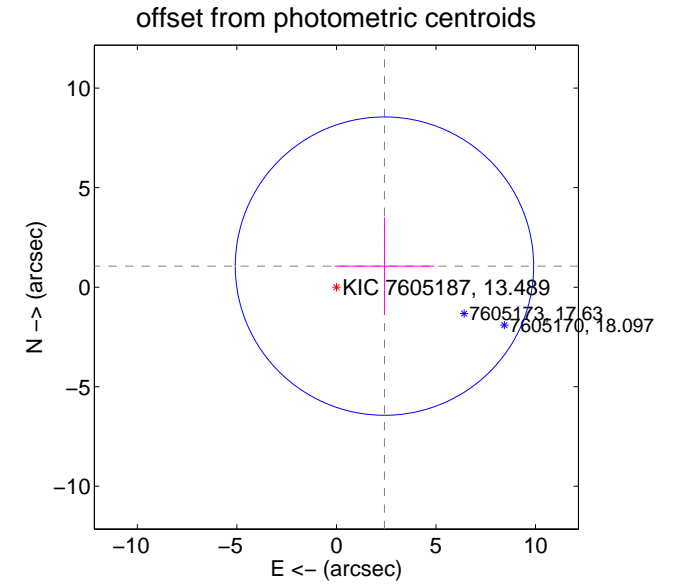
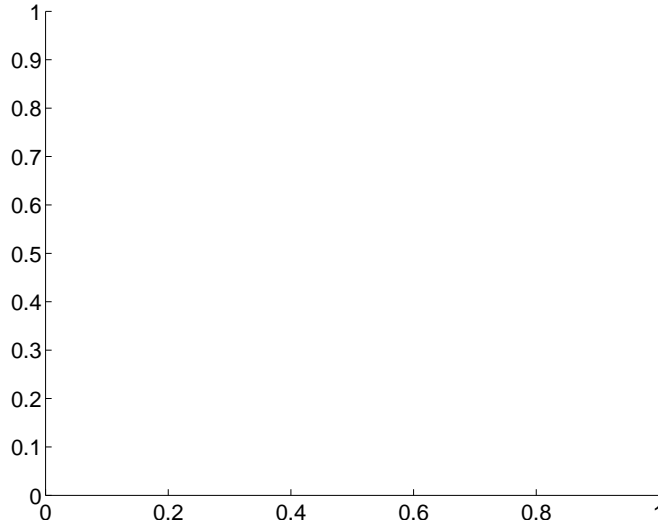
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	2.64 ± 2.50	1.05	-2.41 ± 2.51	1.06 ± 2.45

There is no PRF-fit offset from OOT-fit

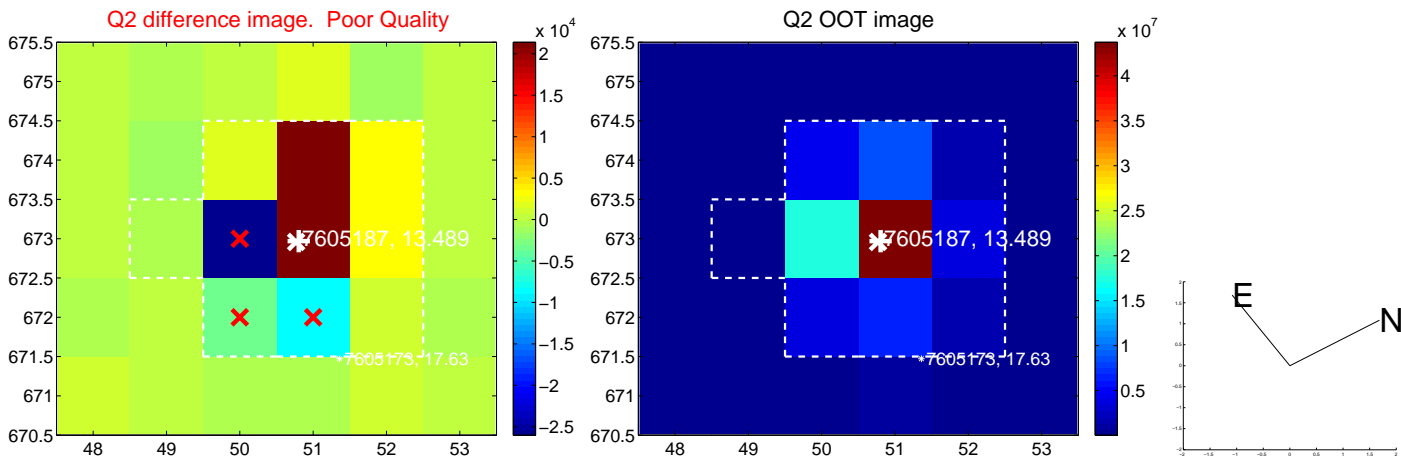


There is no PRF-fit offset from KIC



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



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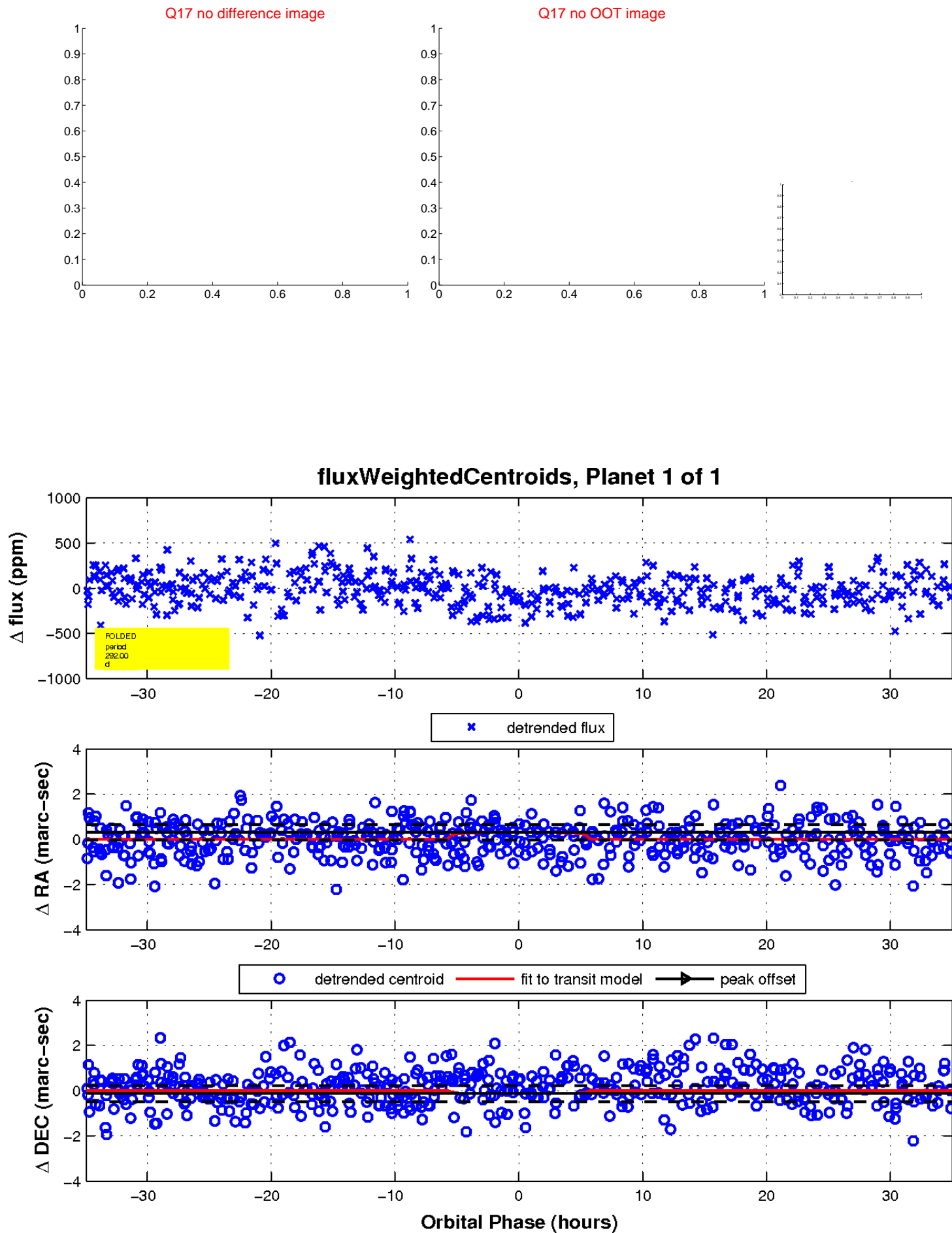
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

