

KIC 011191800

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})
011191800-01	OBS	No	523.858444	174.302834	1030.1	6.879	7.2	7.3	0.67	5047	2.41	0.20

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011191800-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_SKYE—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.

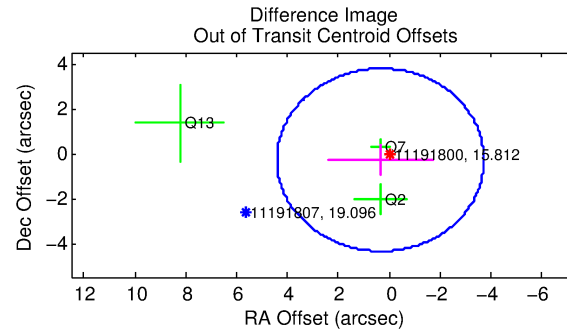
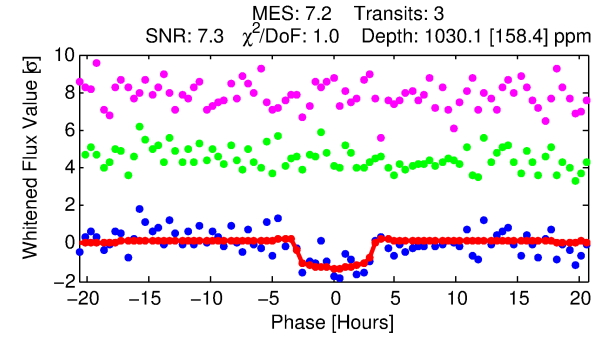
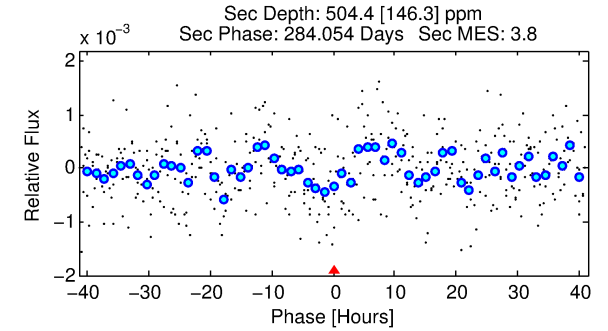
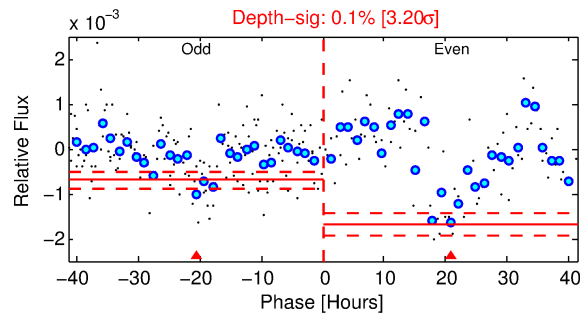
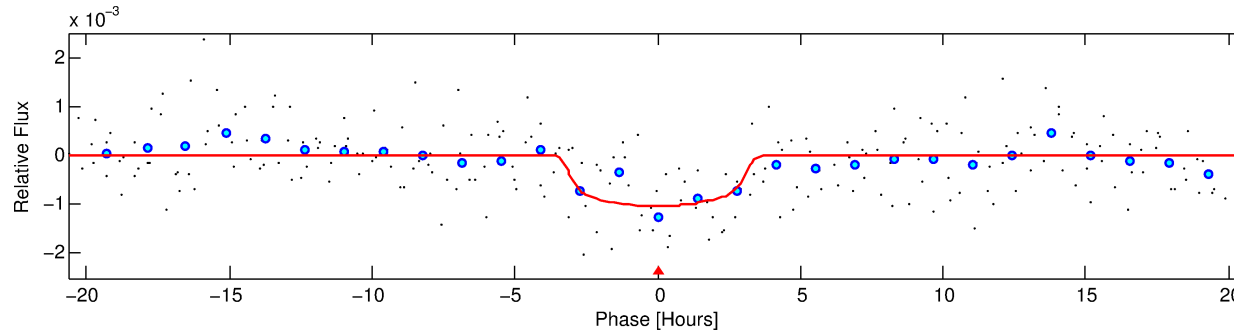
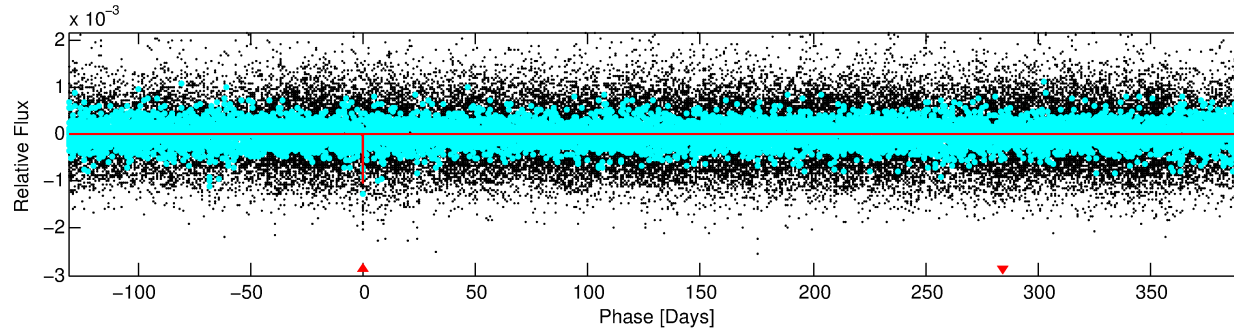
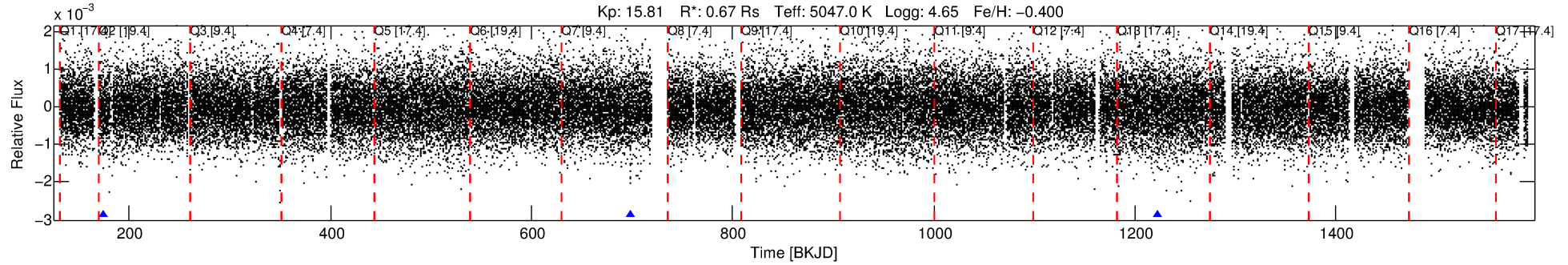
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011191800-01

No Significant Match Found

DV One-Page Summary

KIC: 11191800 Candidate: 1 of 1 Period: 523.858 d



DV Fit Results:

Period = 523.85844 [0.01165] d
Epoch = 174.3028 [0.0140] BKJD
Rp/R* = 0.0332 [0.0136]
a/R* = 367.87 [549.53]
b = 0.82 [0.62]
Seff = 0.20 [0.04]
Teq = 170 [8] K
Rp = 2.41 [1.03] Re
a = 1.1450 [0.1152] AU
Ag = 62534.75 [54983.23] [1.14 σ]
Teffp = 4152 [910] K [4.38 σ]

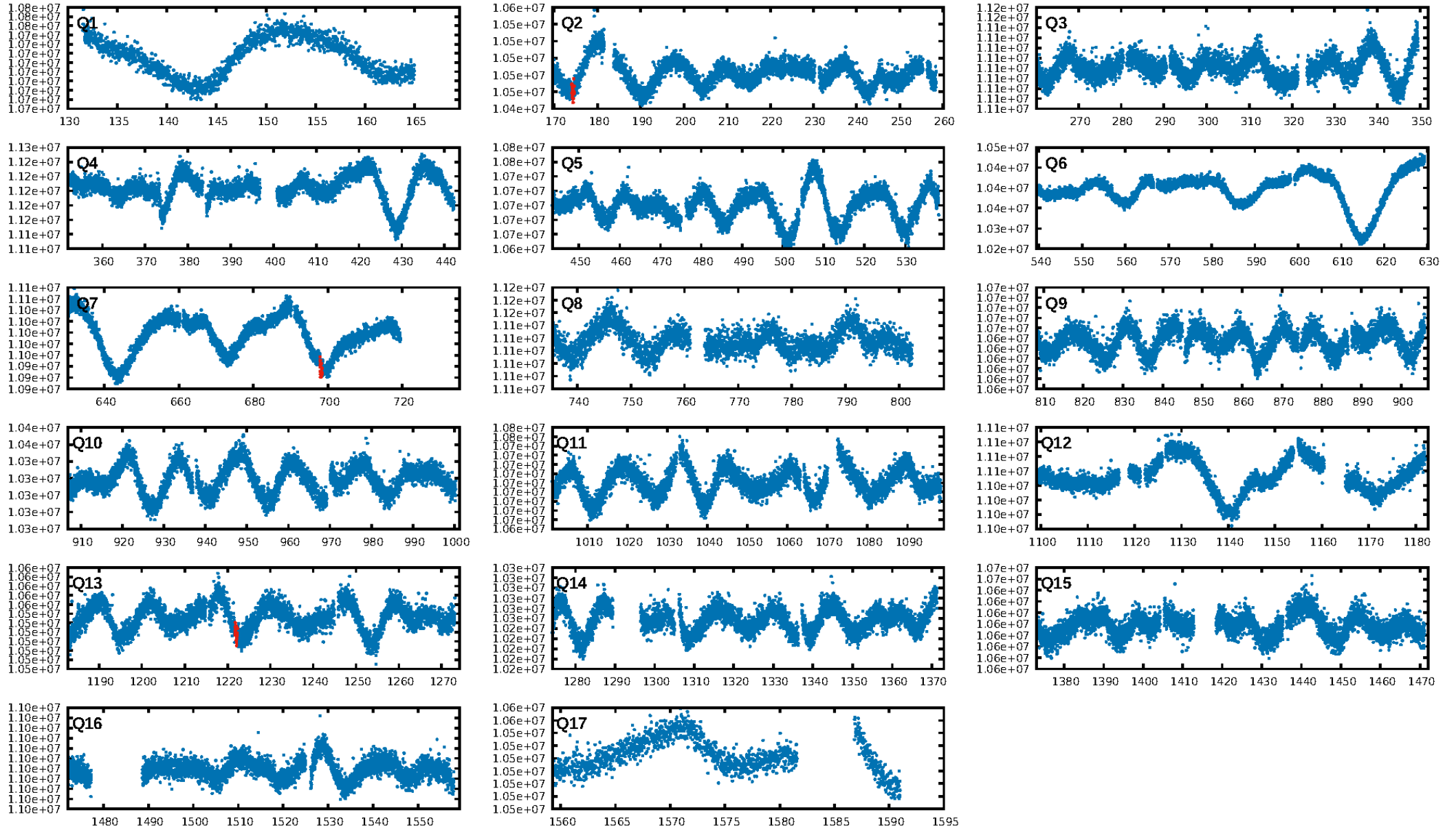
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 4.5%
ModelChiSquareGof-sig: 93.7%
Bootstrap-pfa: 3.02e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.943
Centroid-sig: 38.7%
Centroid-so: 1.244 arcsec [0.77 σ]
OotOffset-rm: 0.445 arcsec [0.33 σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-rm: 0.480 arcsec [0.44 σ]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 1.00 [3/3]

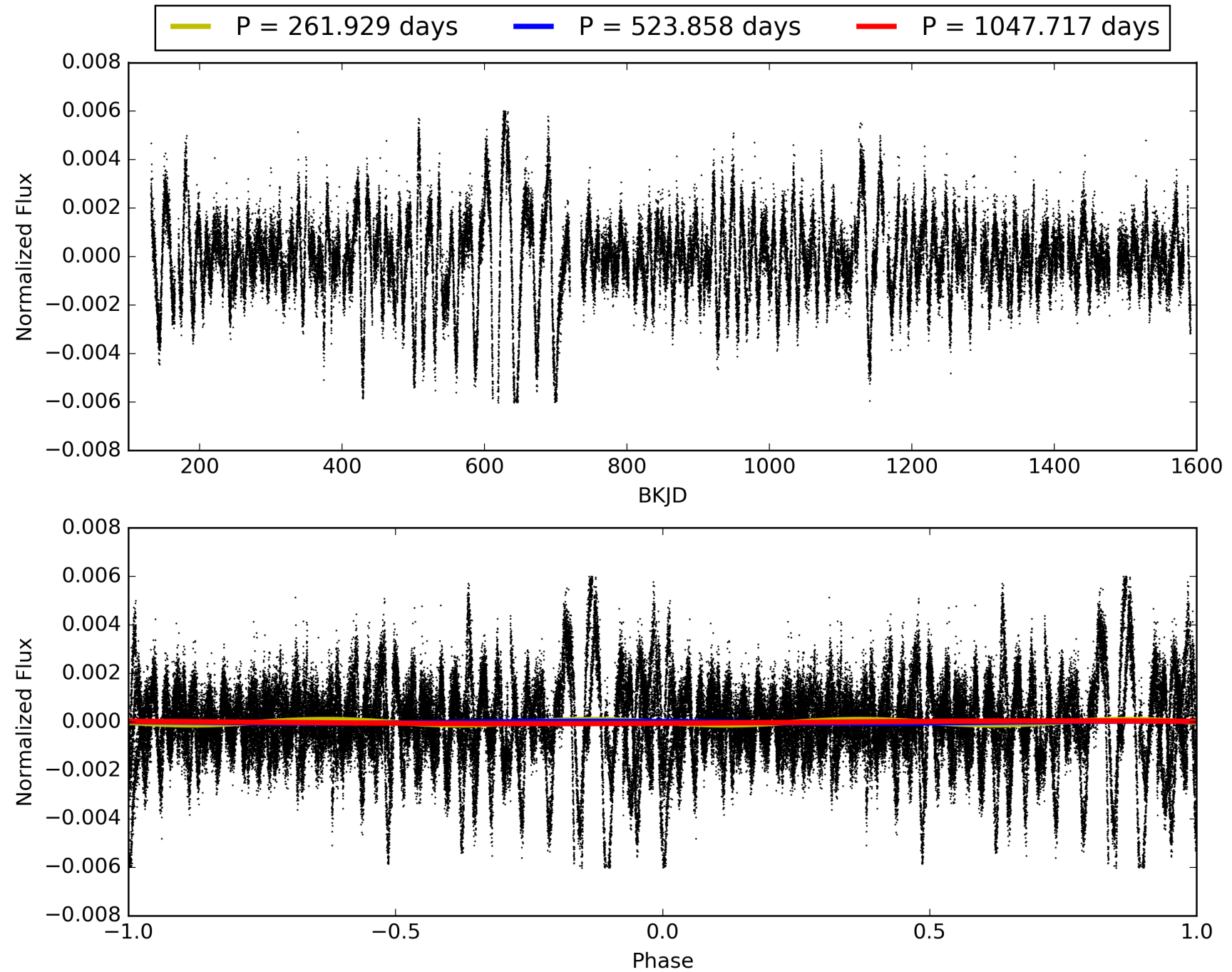
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 19:58:45 Z

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

TCE 011191800-01, PDC Light Curves

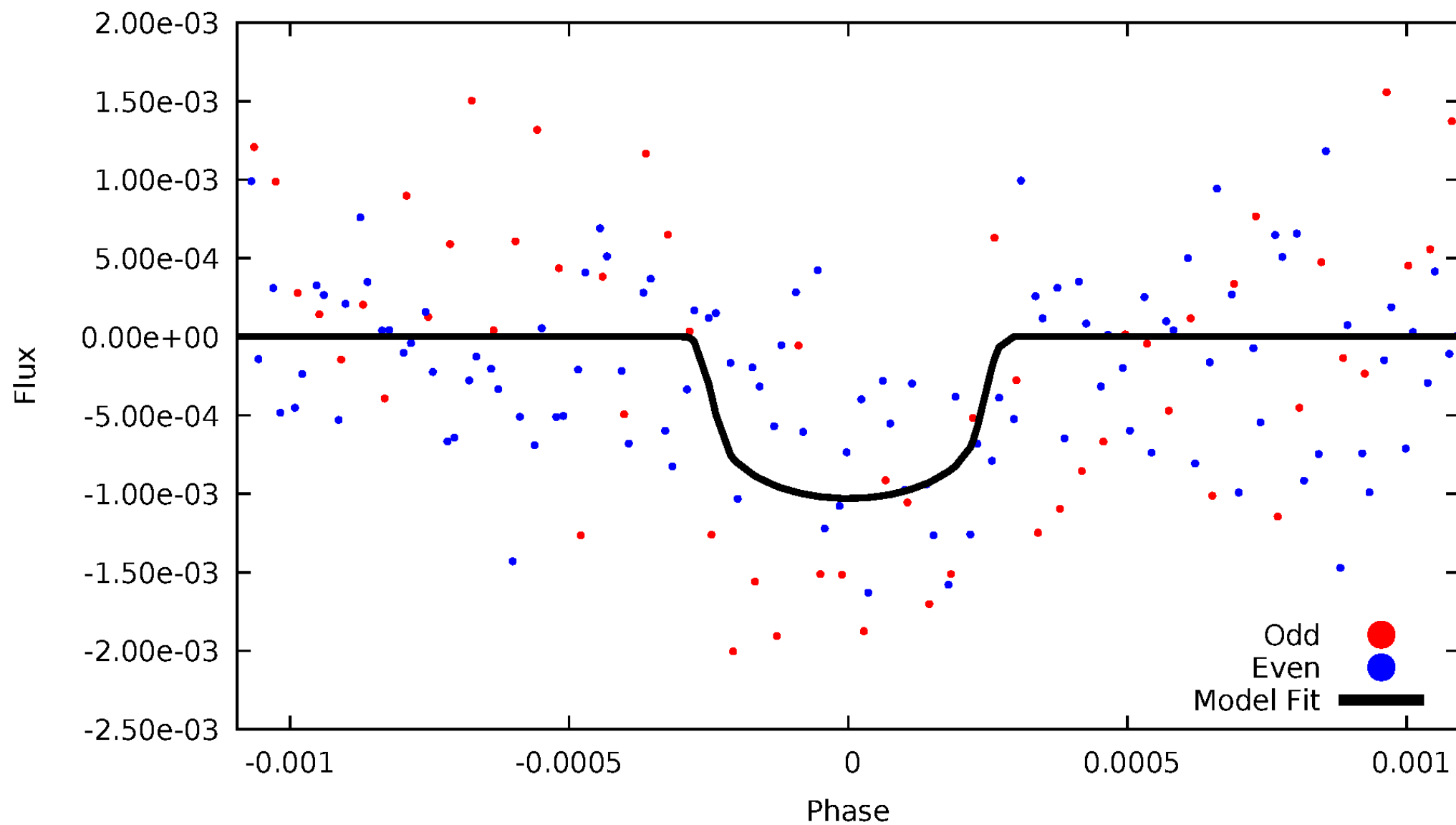


TCE 011191800-01



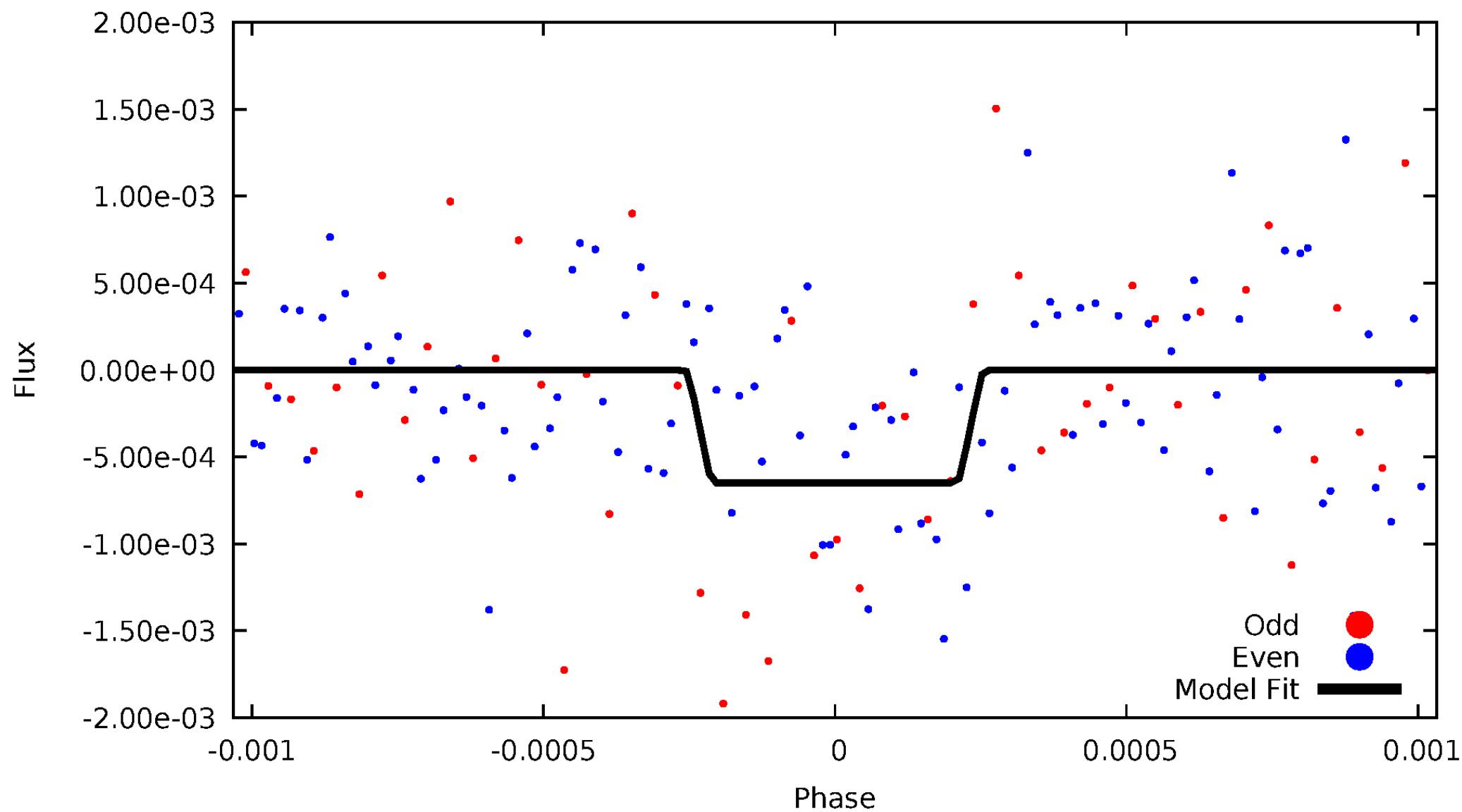
DV Odd/Even

TCE 011191800-01



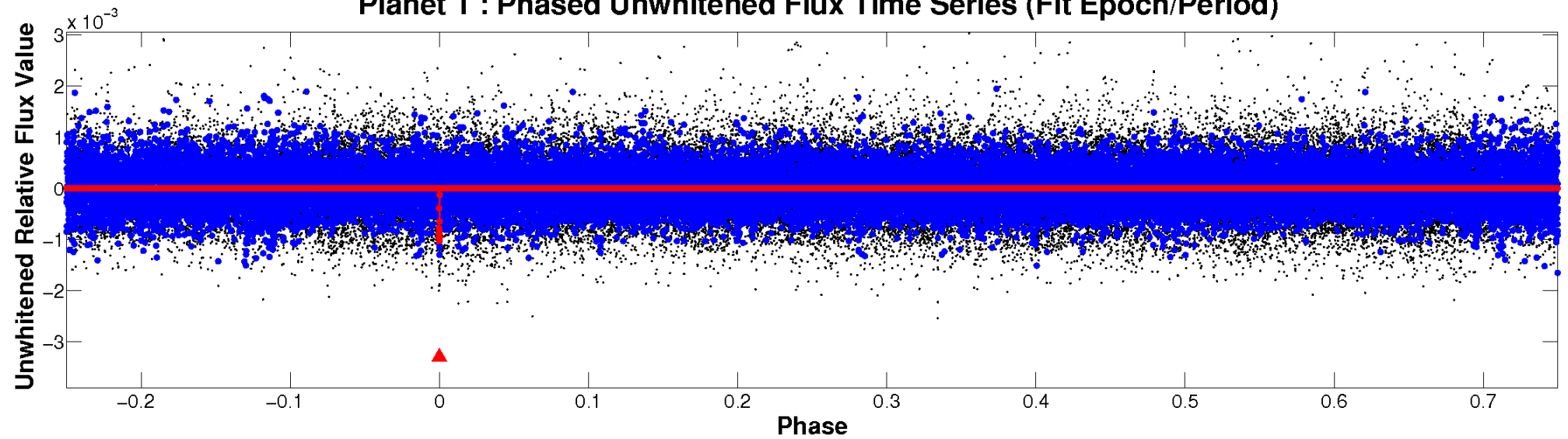
ALT Odd/Even

TCE 011191800-01

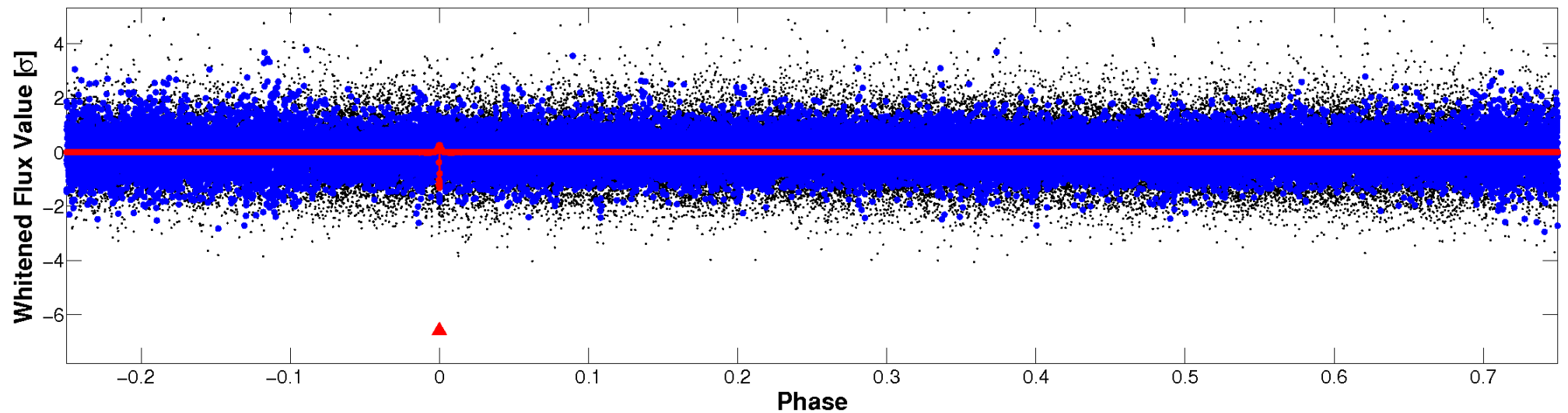


Non-Whitened Vs. Whitened Light Curve

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

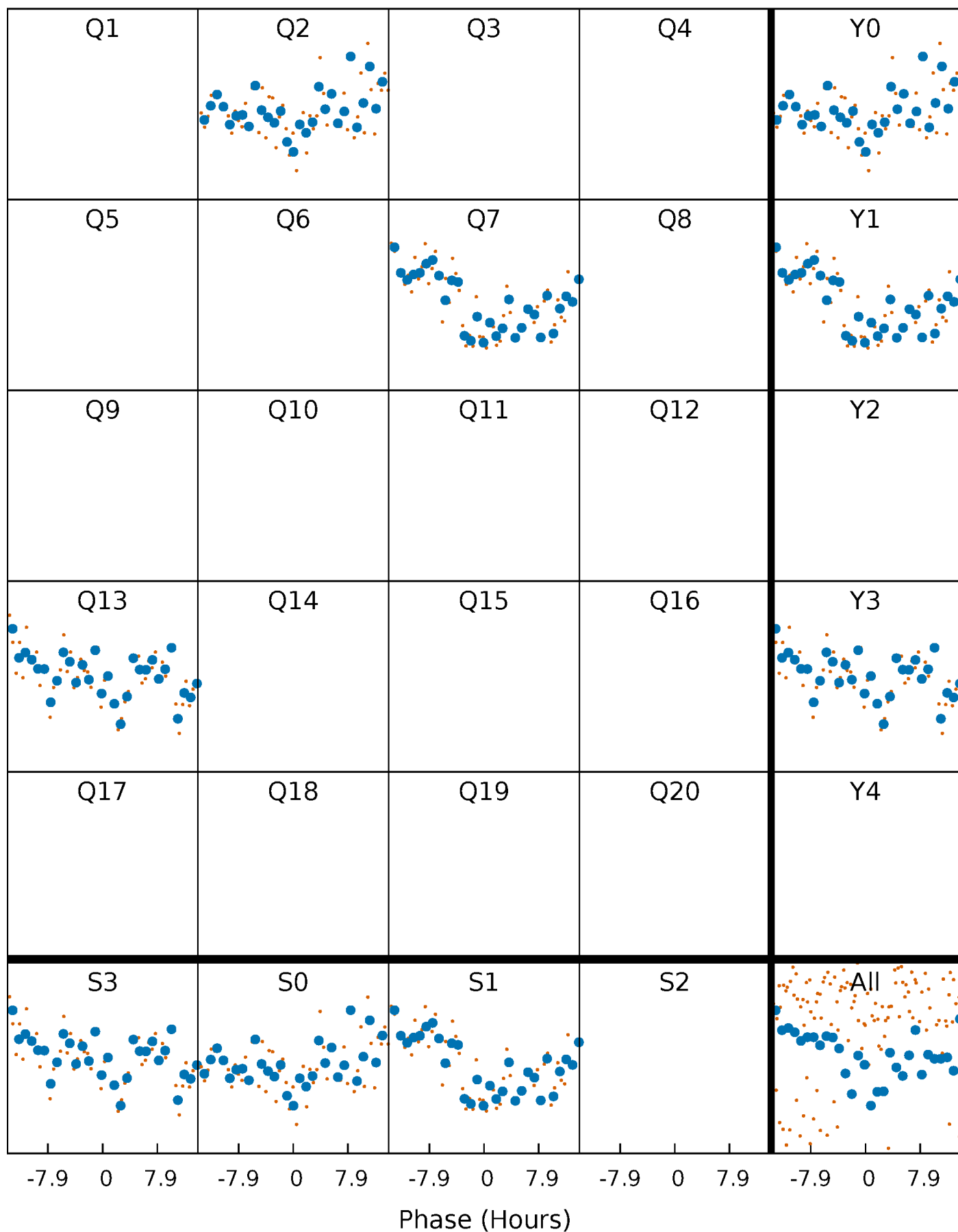


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



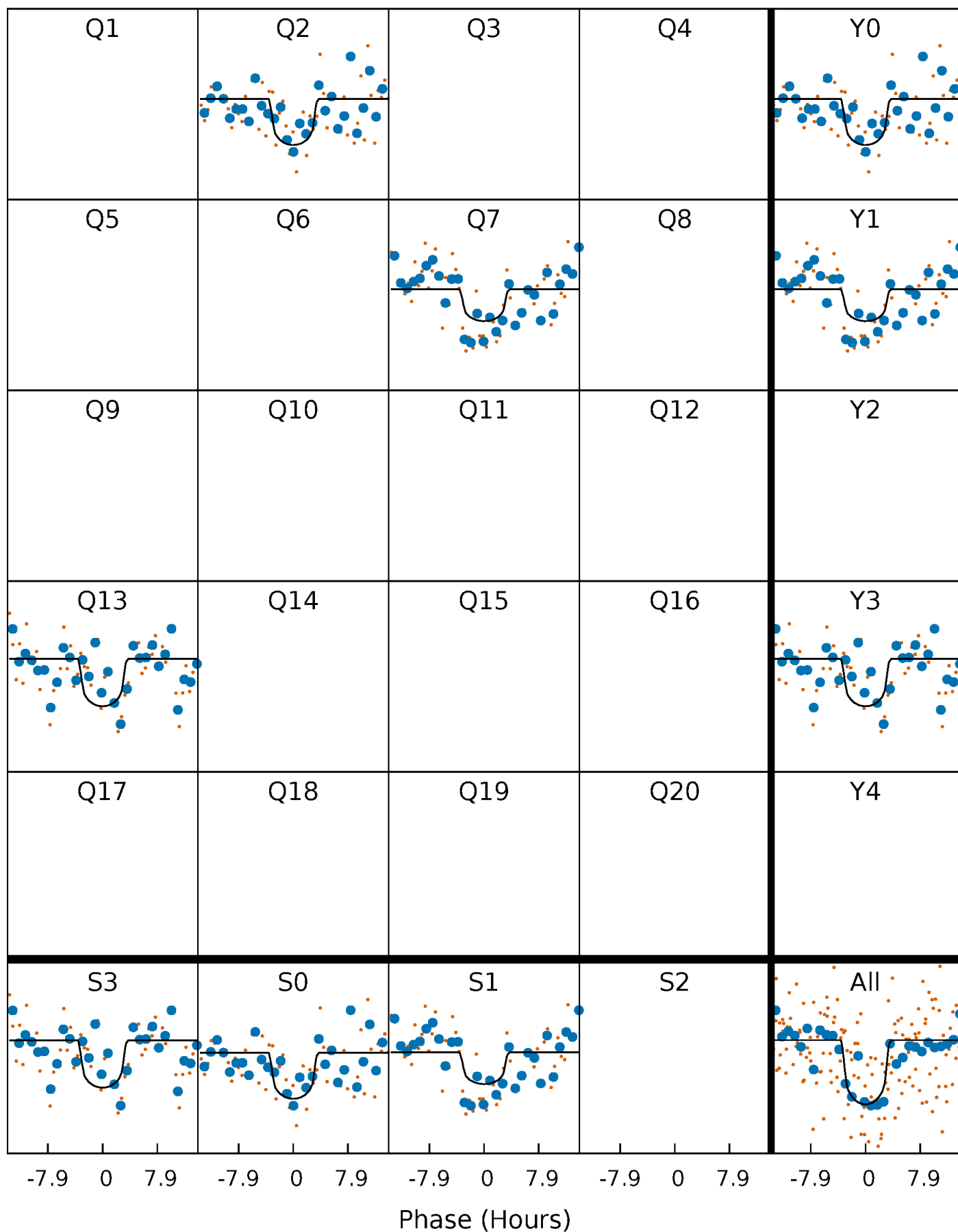
PDC Quarter-Phased Transit Curves

TCE 011191800-01 P=523.858445 Days $T_0=174.302834$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011191800-01 P=523.858445 Days $T_0=174.302834$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

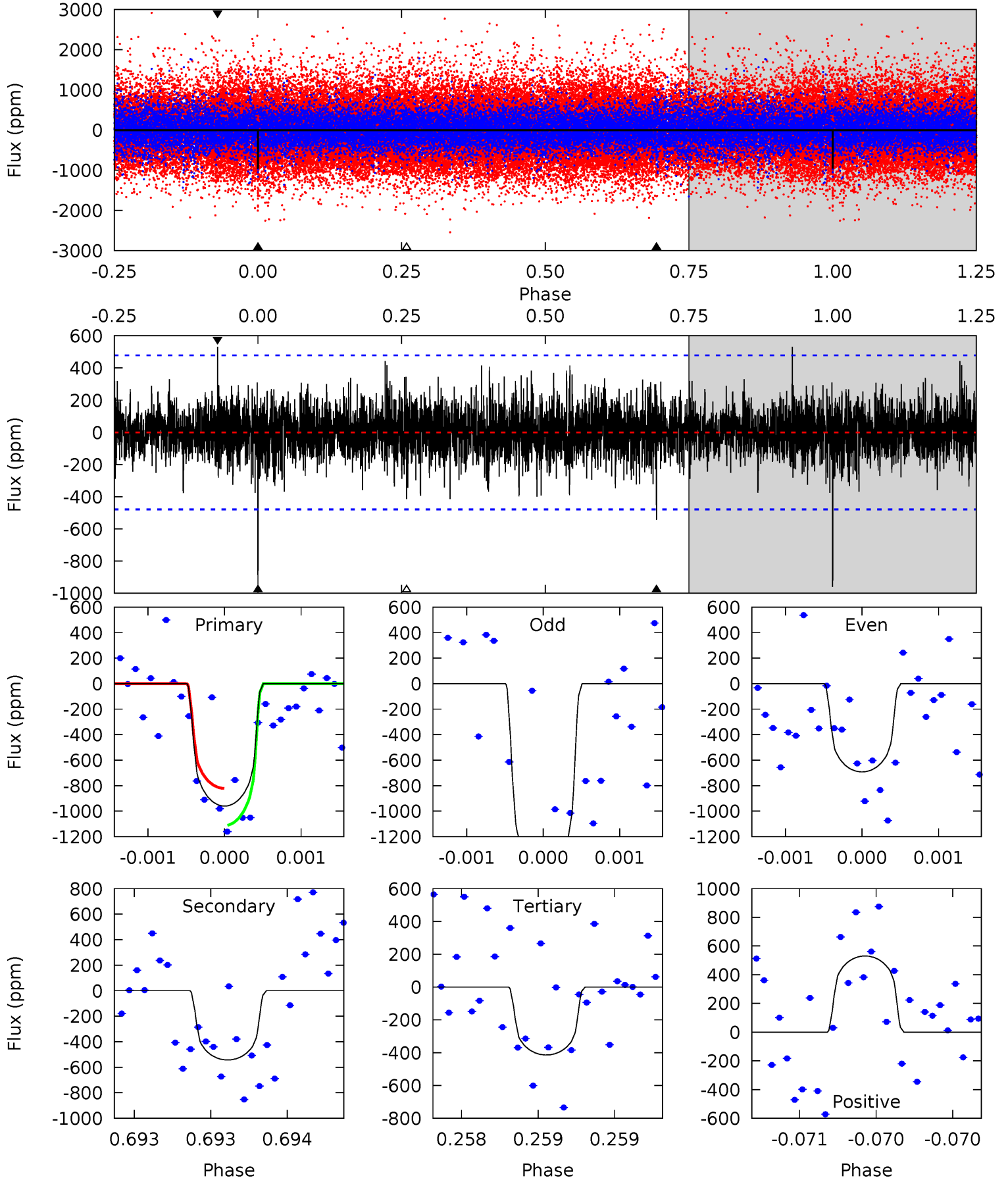
TCE 011191800-01 P=523.861989 Days $T_0=174.291791$ (BKJD)



DV Model-Shift Uniqueness Test

011191800-01, P = 523.858445 Days, E = 174.302834 Days

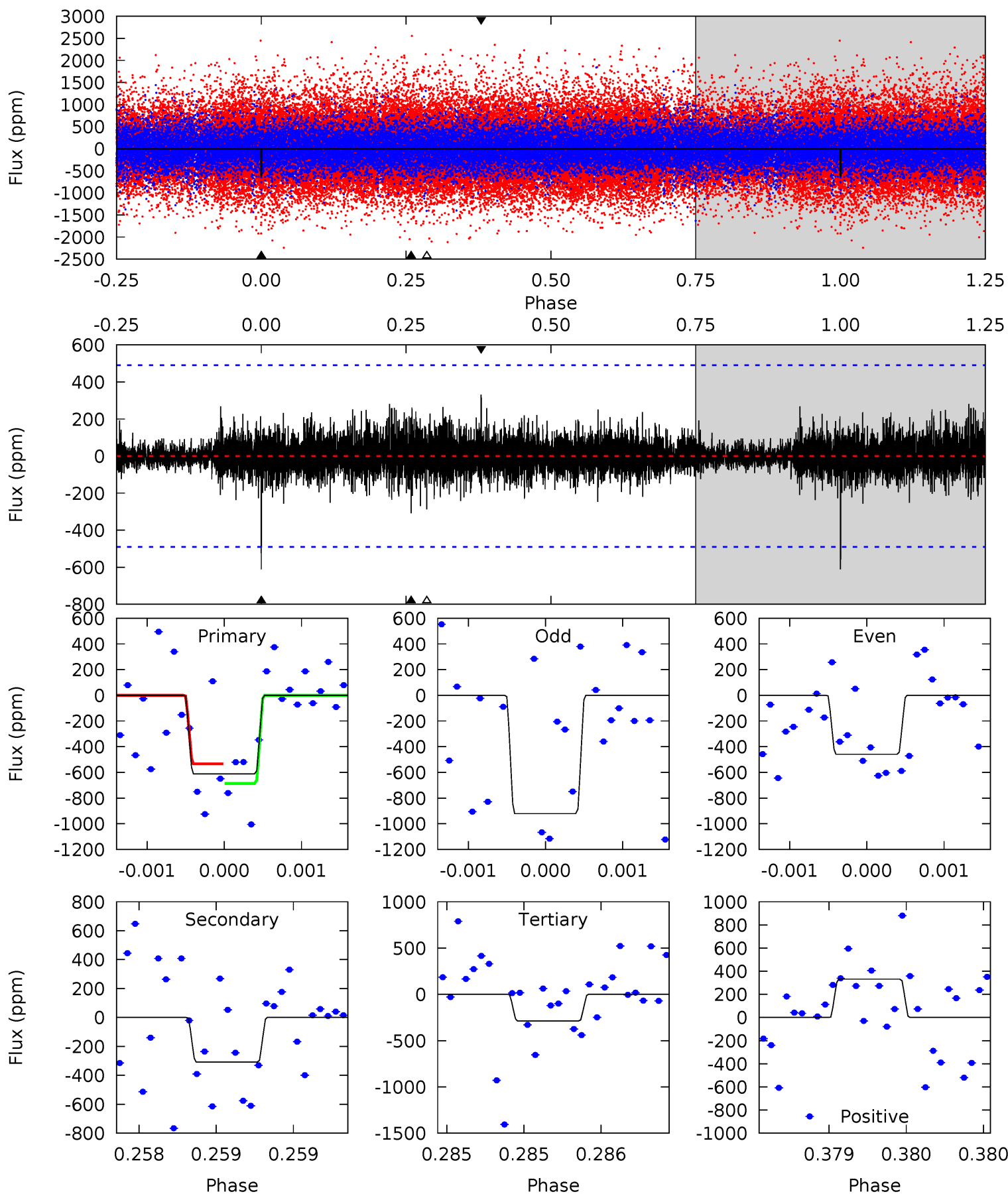
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.1	6.30	4.80	6.16	5.55	3.44	1.32	6.33	4.98	1.49	0.14	4.42	1.22	0.36	1.68



Alt Model-Shift Uniqueness Test

011191800-01, P = 523.861989 Days, E = 174.291791 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.94	3.51	3.26	3.76	5.57	3.48	0.78	3.68	3.18	0.24	-0.25	2.51	1.25	0.35	0.86



Stellar Parameters For KIC 011191800

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5047^{+151}_{-136}	$4.654^{+0.033}_{-0.072}$	$-0.400^{+0.300}_{-0.300}$	$0.666^{+0.084}_{-0.045}$	$0.737^{+0.070}_{-0.076}$	$3.509^{+0.496}_{-0.933}$
	+3%/-3%	+1%/-2%	+75%/-75%	+13%/-7%	+9%/-10%	+14%/-27%
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 011191800-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-543 ± 86	$2.50^{+0.95}_{-0.93}$	239^{+9}_{-8}	4335^{+954}_{-507}	61834^{+95521}_{-30405}
Alt.	-309 ± 88	$1.92^{+0.98}_{-0.96}$	239^{+9}_{-7}	4291^{+1459}_{-642}	$58632^{+179157}_{-35235}$

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 $A_{obs} \gg 1.0$

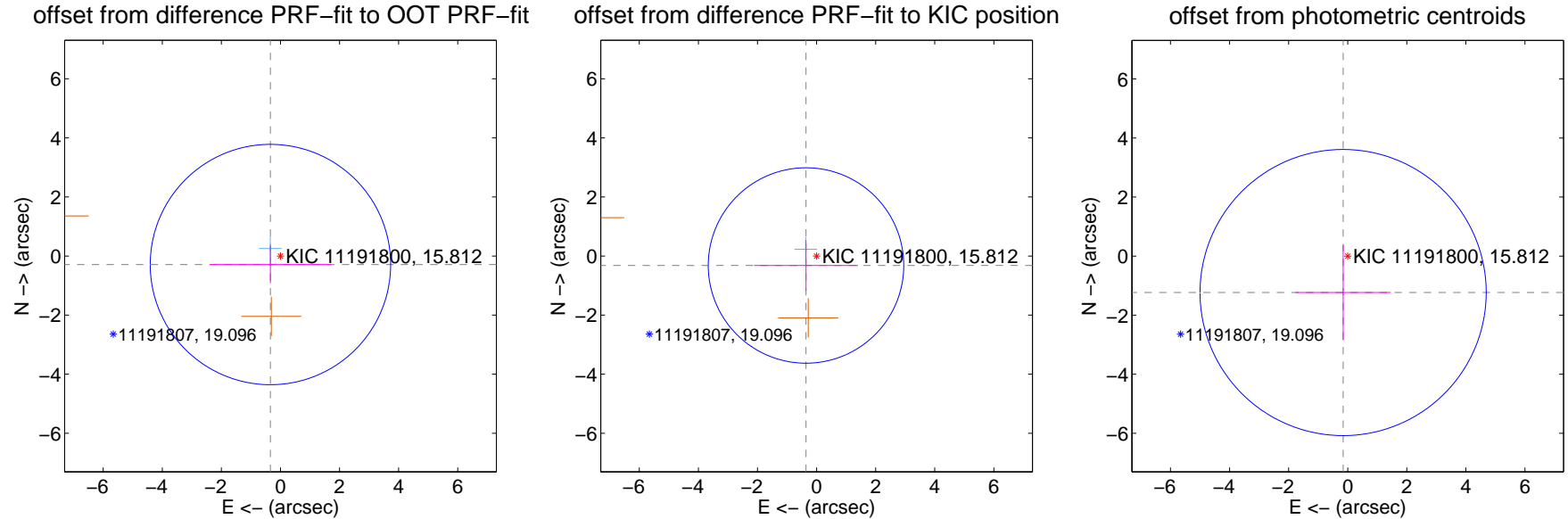
DV Centroid Data

Supplemental centroid analysis for 011191800-01. Kepler magnitude: 15.81. Transit SNR 7.27

There are 1 quarters with good PRF difference image offsets

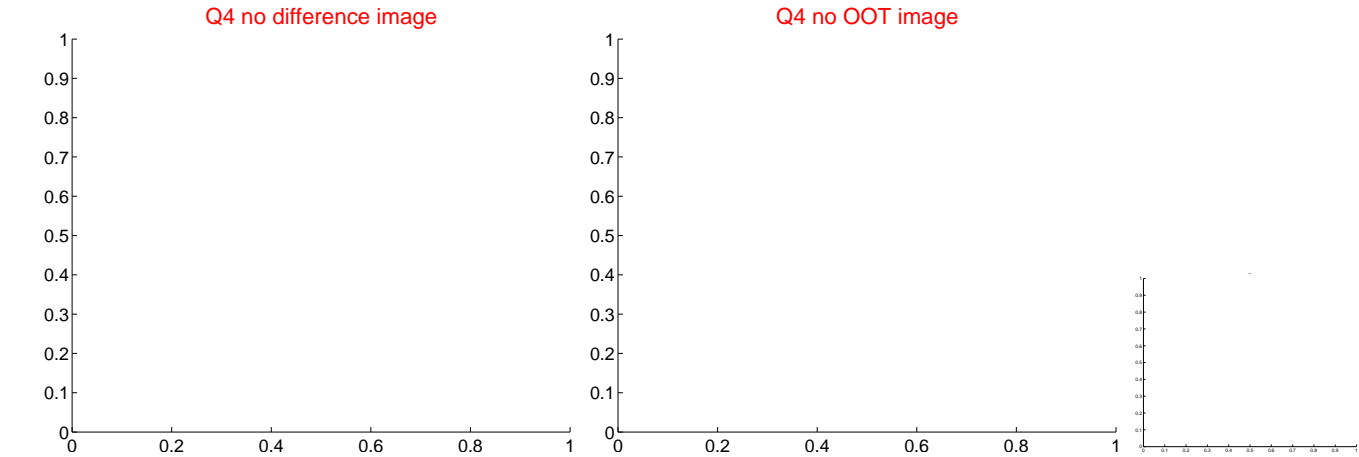
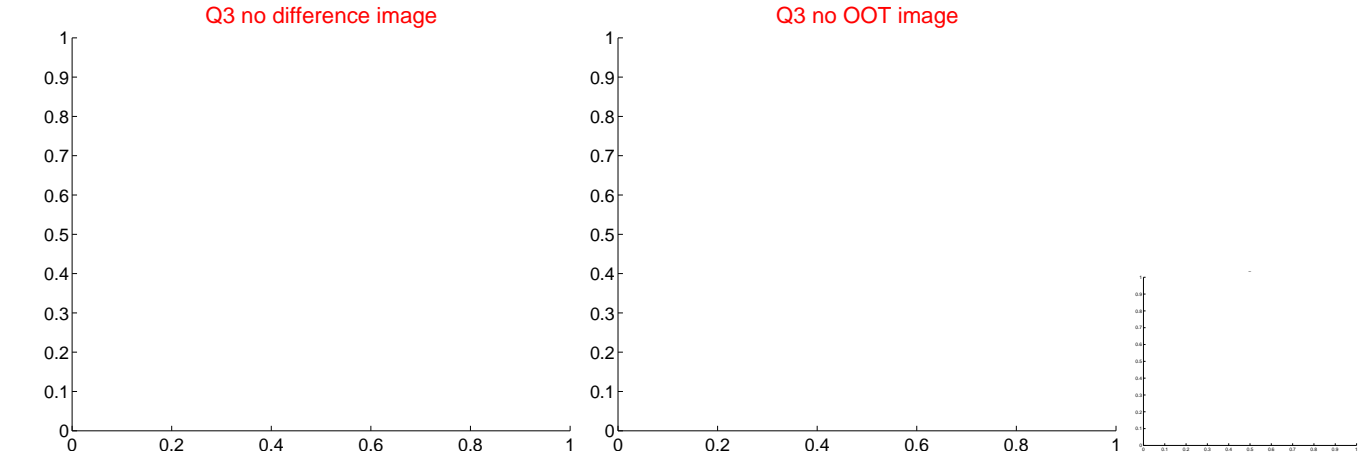
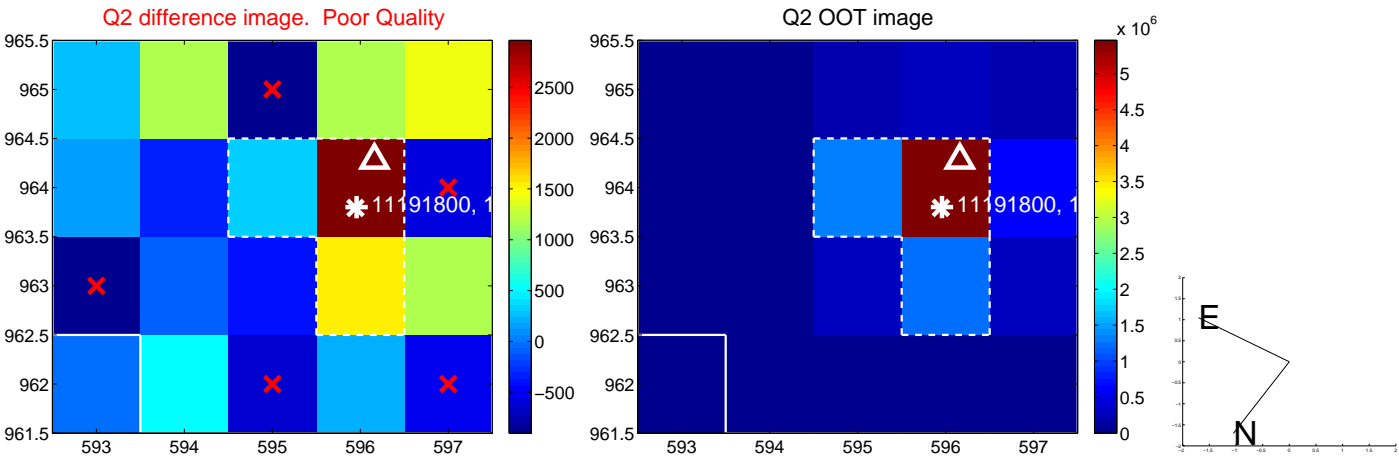
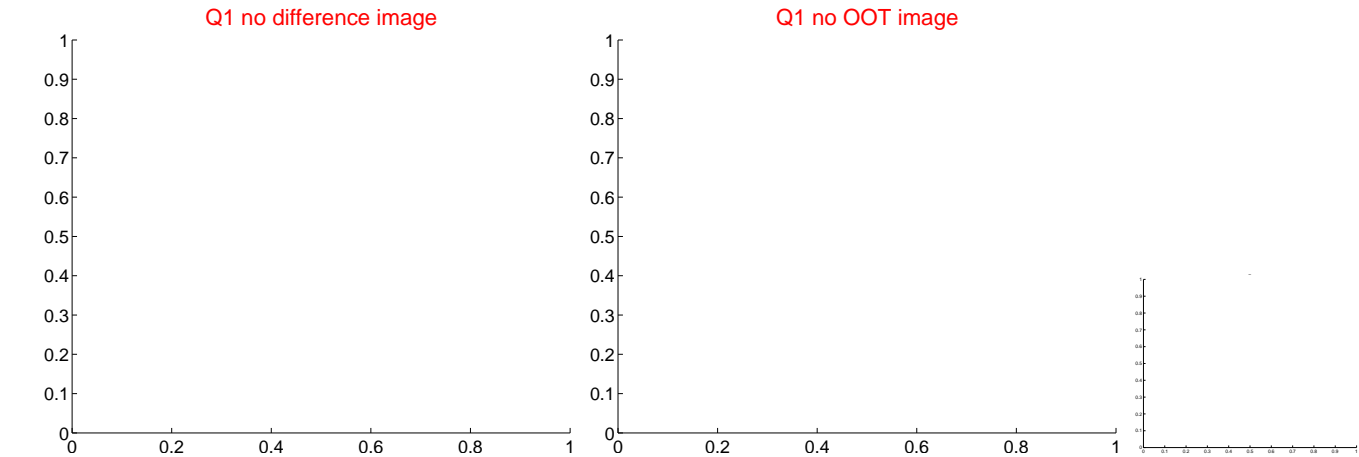
The direct PRF centroid is offset from the target star catalog position by about 0.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.445 ± 1.356	0.33	0.339 ± 2.055	-0.288 ± 0.634
PRF-fit source offset from KIC position	0.480 ± 1.103	0.44	0.358 ± 1.759	-0.320 ± 0.858
photometric centroid source offset	1.24 ± 1.61	0.77	0.16 ± 1.61	-1.23 ± 1.62

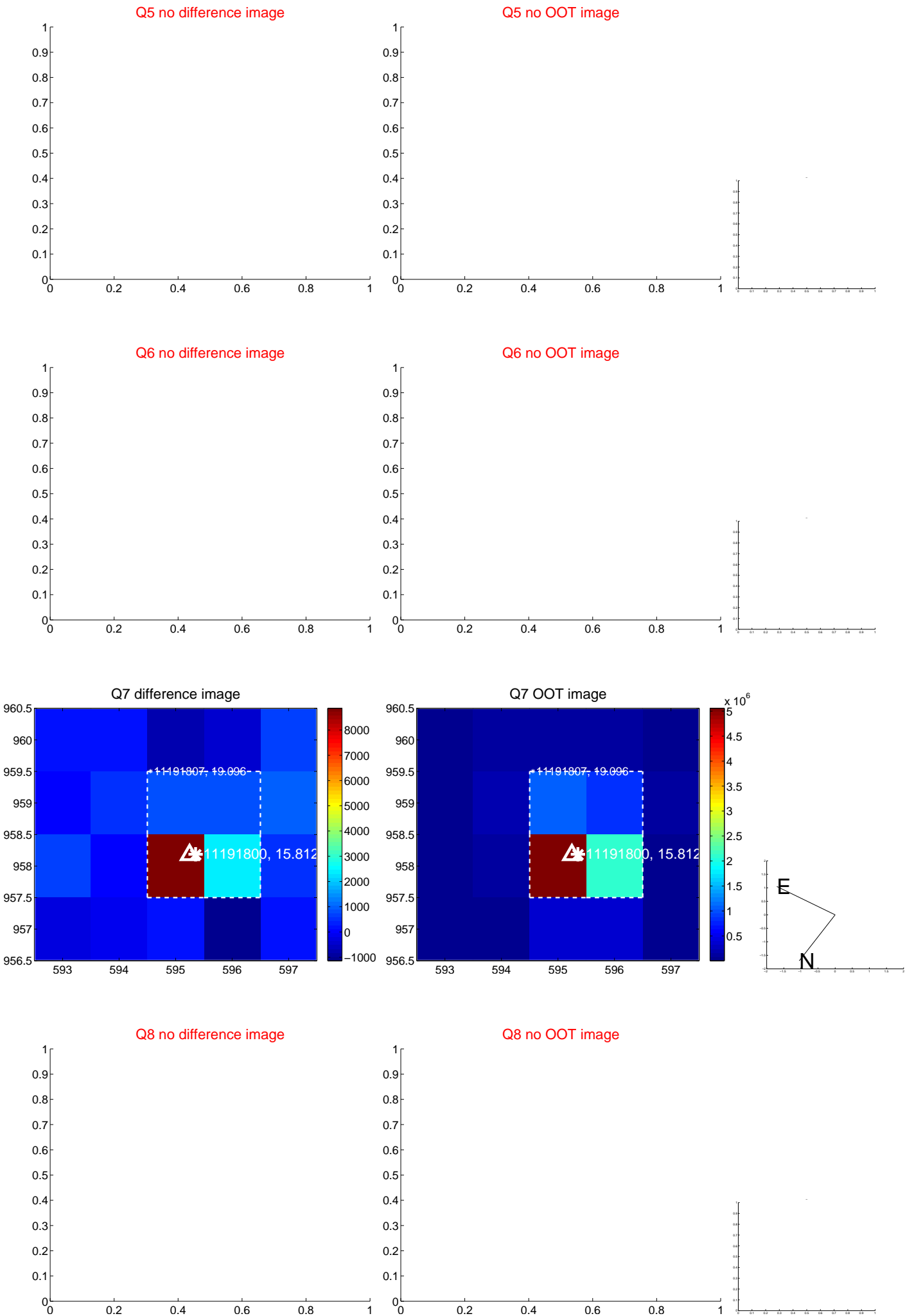


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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.



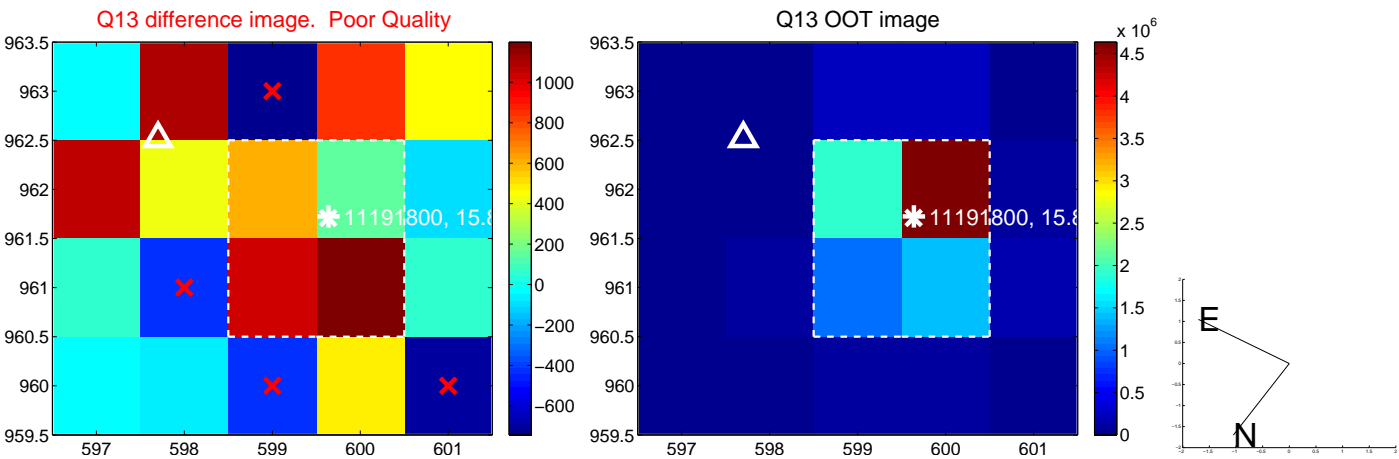
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



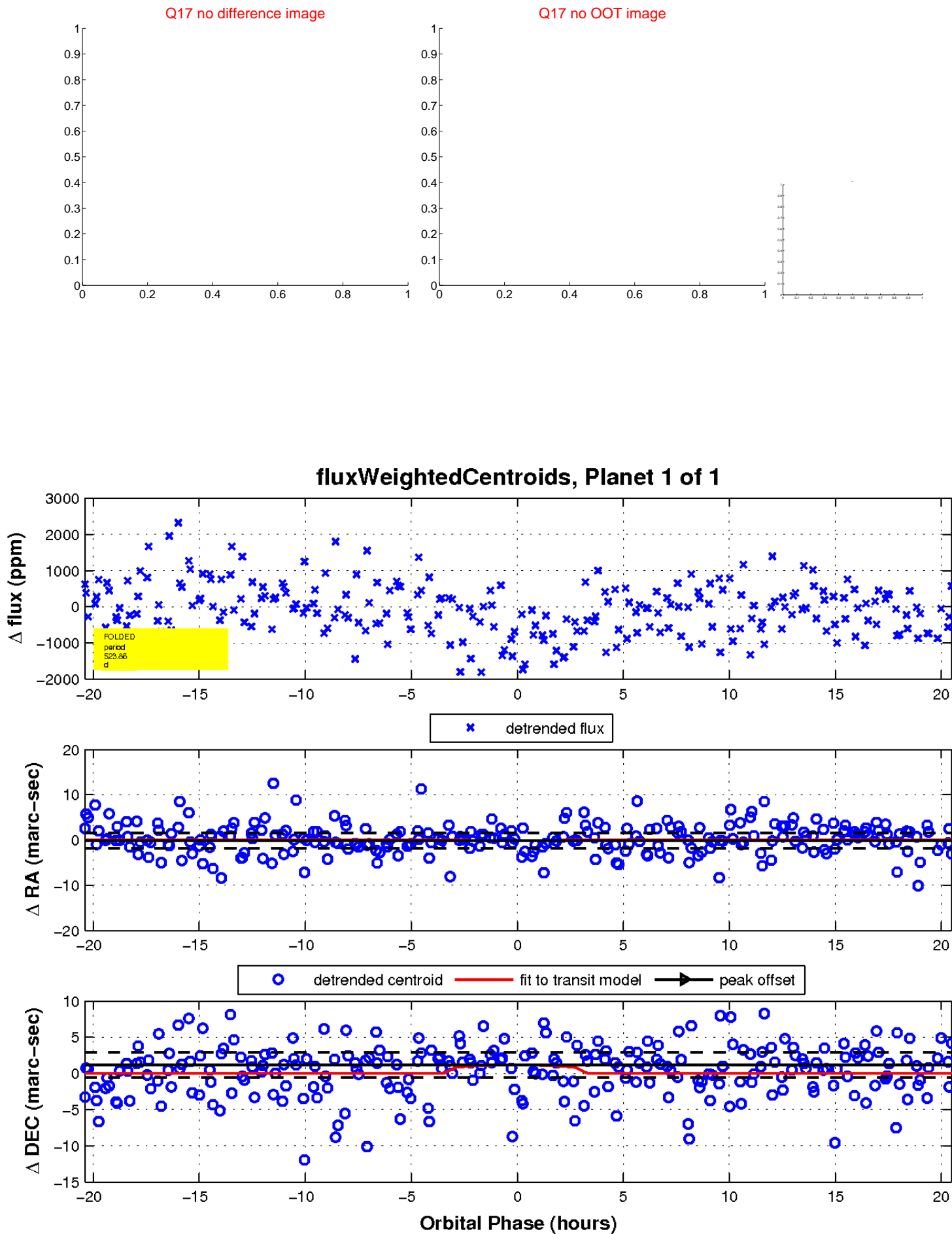
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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UKIRT Image

Declination

