

KIC 011200608

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})
011200608-01	OBS	No	481.980973	175.182845	249.0	6.230	7.4	7.3	0.93	6096	1.66	0.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011200608-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—MOD_POS_ALT—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.

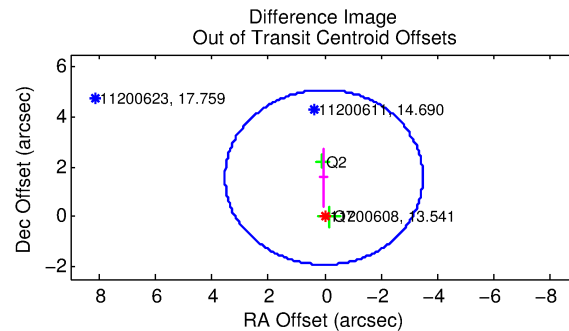
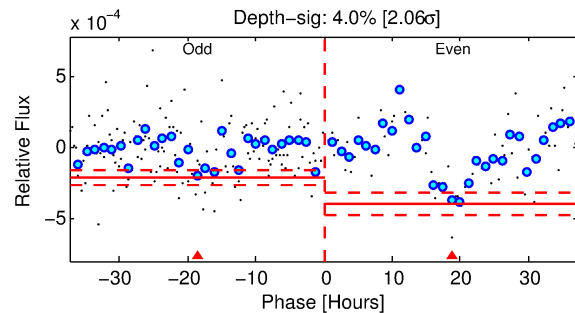
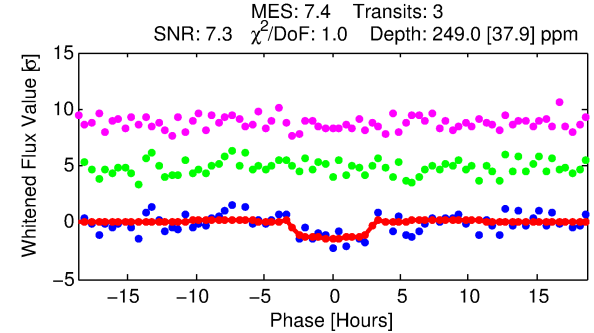
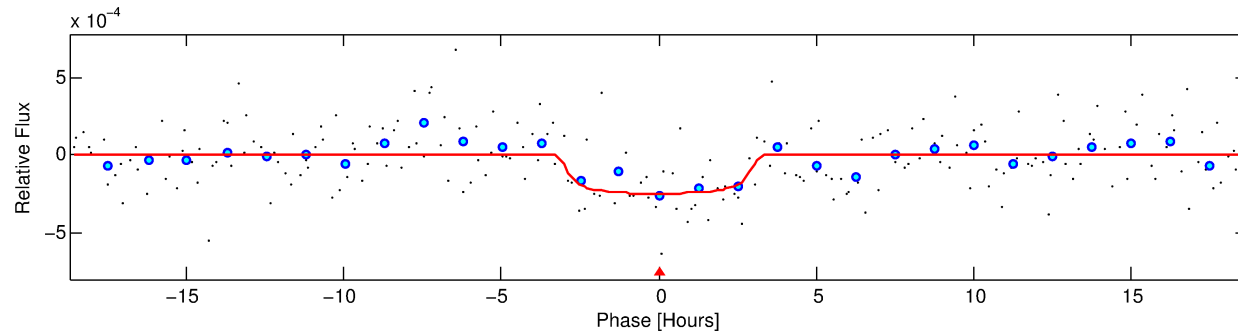
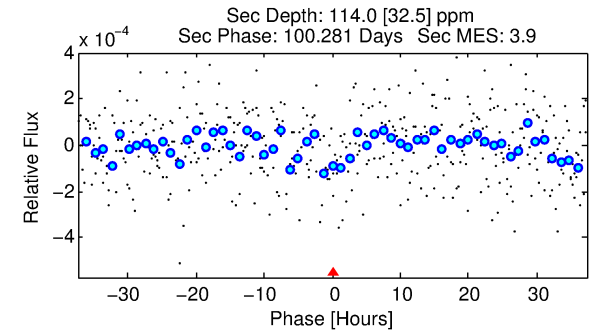
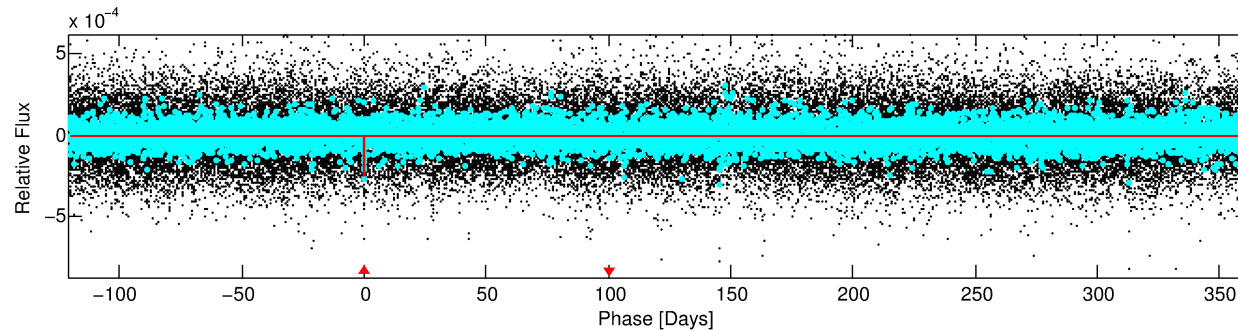
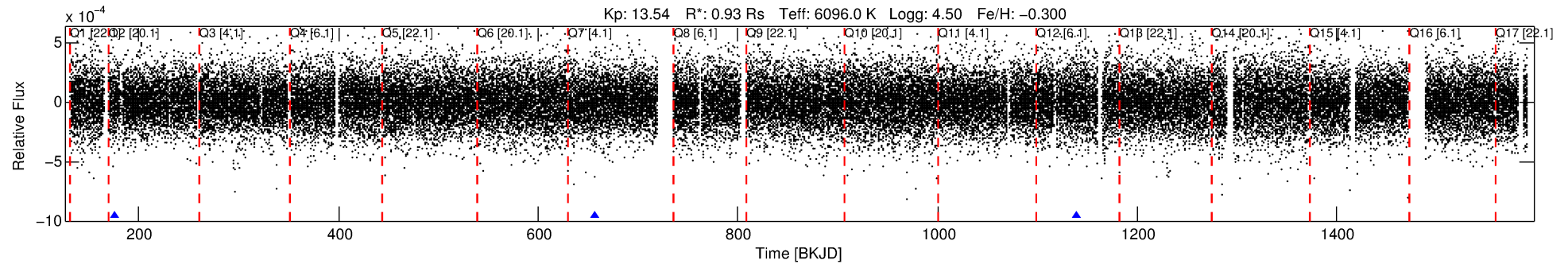
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011200608-01

No Significant Match Found

DV One-Page Summary

KIC: 11200608 Candidate: 1 of 1 Period: 481.981 d



DV Fit Results:

Period = 481.98097 [0.01241] d
Epoch = 175.1828 [0.0127] BKJD
Rp/R* = 0.0164 [0.0173]
a/R* = 327.74 [1816.09]
b = 0.85 [1.81]
Seff = 0.74 [0.16]
Teq = 237 [13] K
Rp = 1.66 [1.77] Re
a = 1.1979 [0.1615] AU
Ag = 32585.97 [69700.52] [0.47σ]
Teffp = 4917 [2618] K [1.79σ]

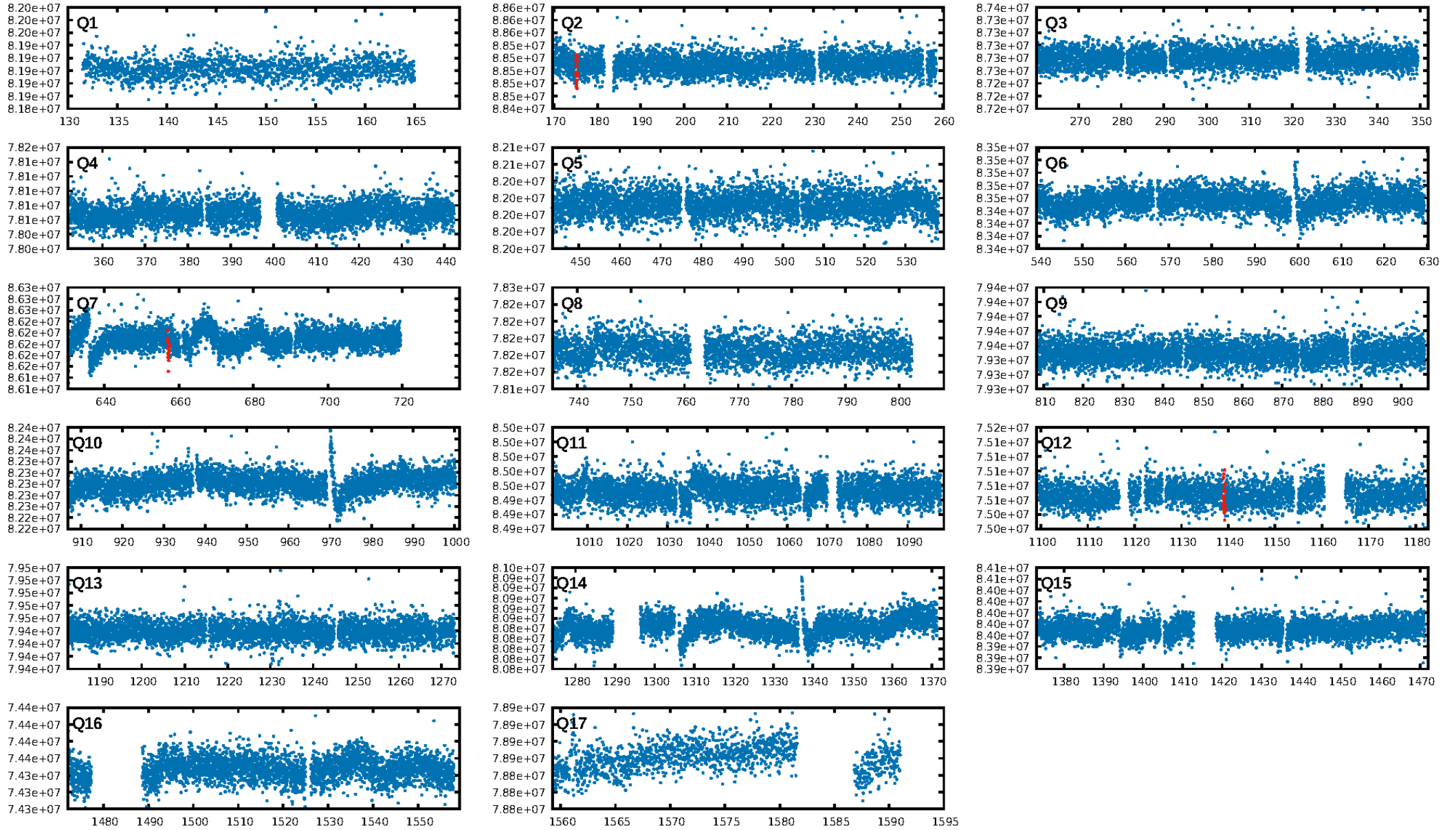
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 4.2%
ModelChiSquareGof-sig: 98.2%
Bootstrap-pfa: 6.94e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 3.237
Centroid-sig: 81.7%
Centroid-so: 0.277 arcsec [0.16σ]
OotOffset-rm: 1.572 arcsec [1.35σ]
OotOffset-st: 1/1/0/0 [2]
KicOffset-rm: 1.891 arcsec [1.59σ]
KicOffset-st: 1/1/0/0 [2]
DiffImageQuality-fgm: 1.00 [2/2]
DiffImageOverlap-fno: 1.00 [3/3]

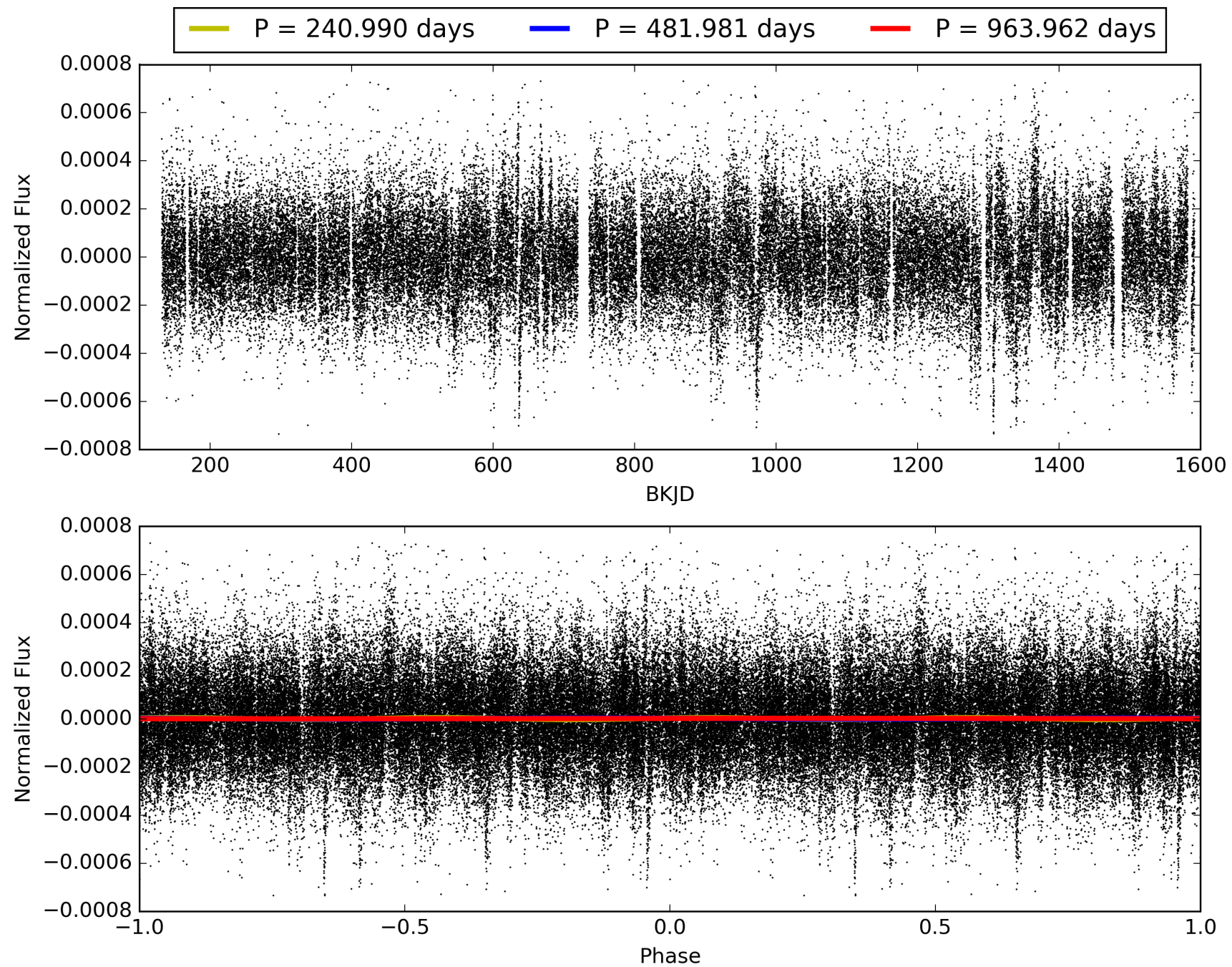
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 20:39:28 Z

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

TCE 011200608-01, PDC Light Curves

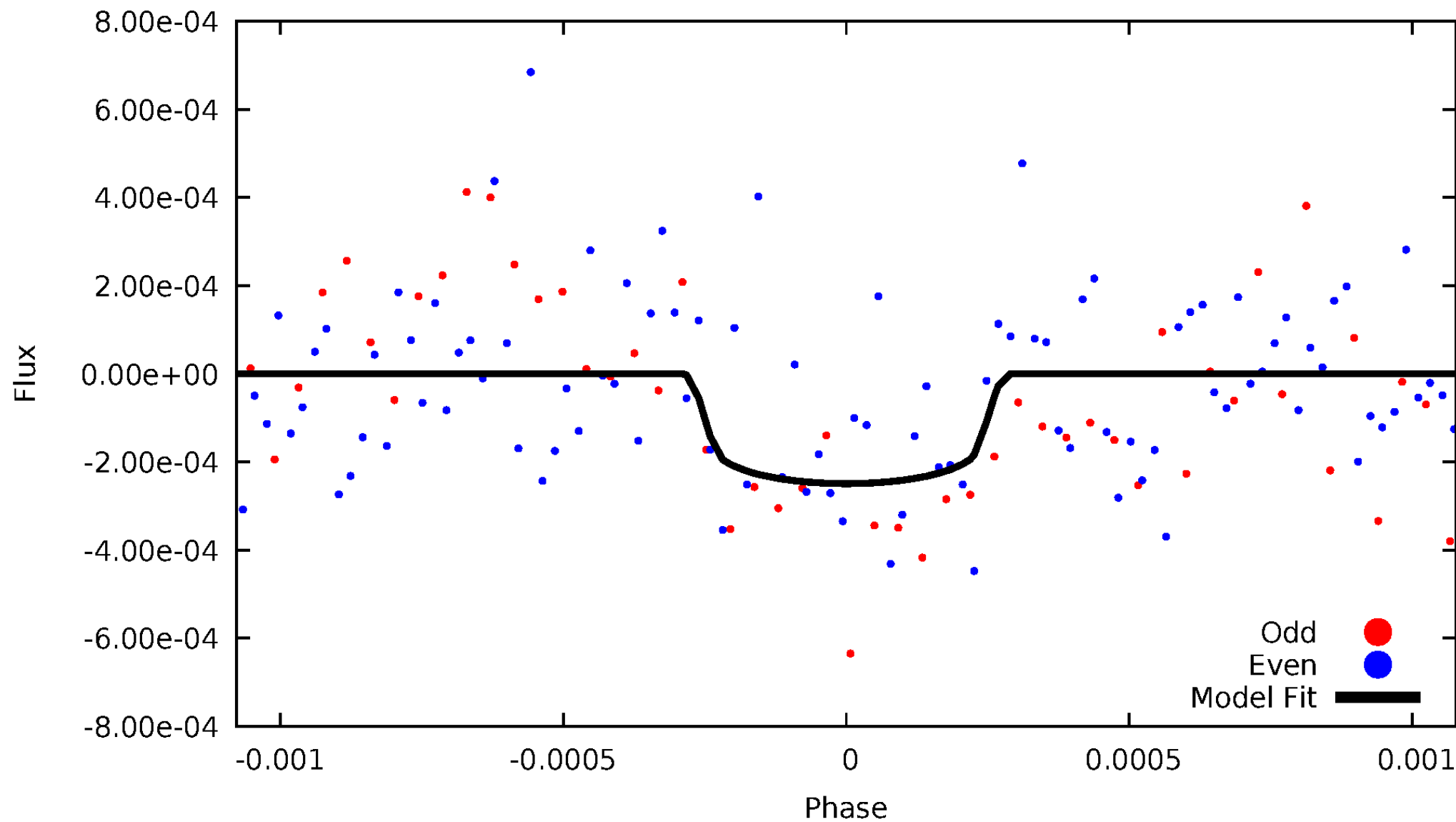


TCE 011200608-01



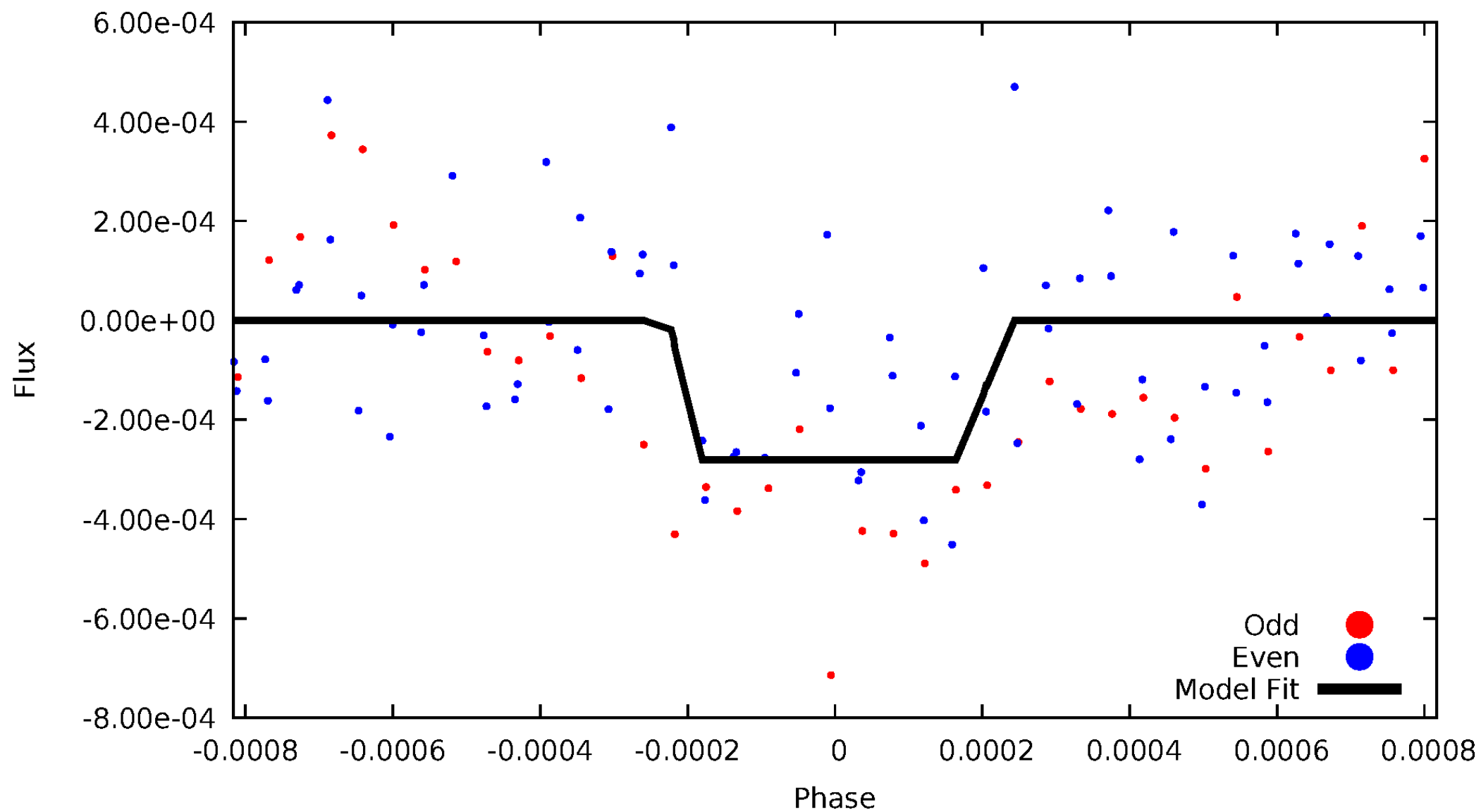
DV Odd/Even

TCE 011200608-01

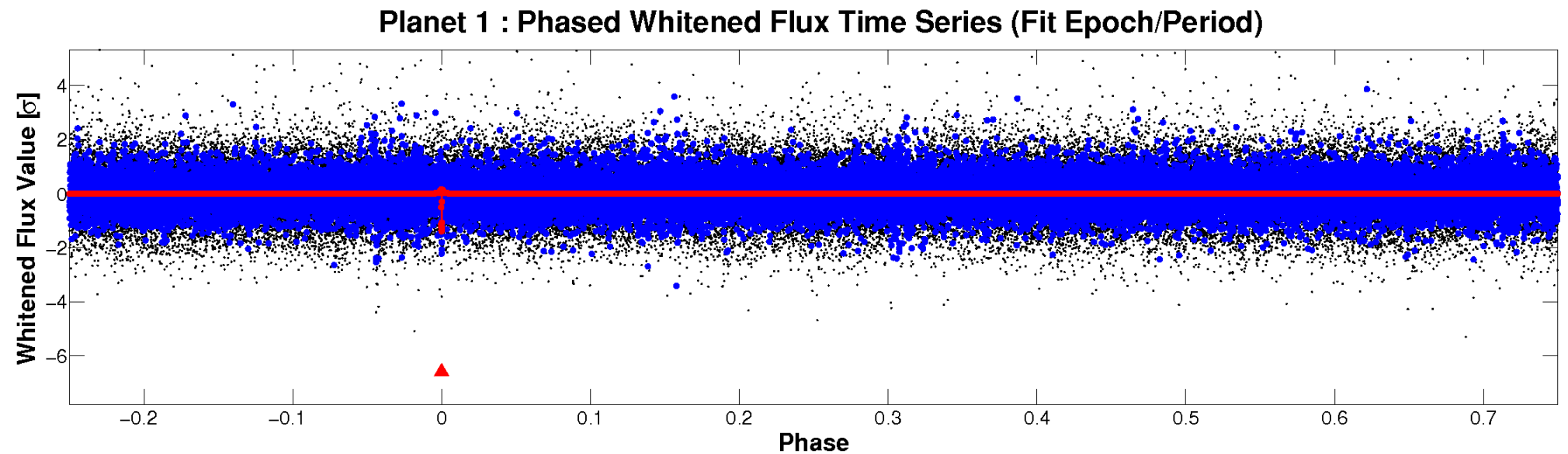
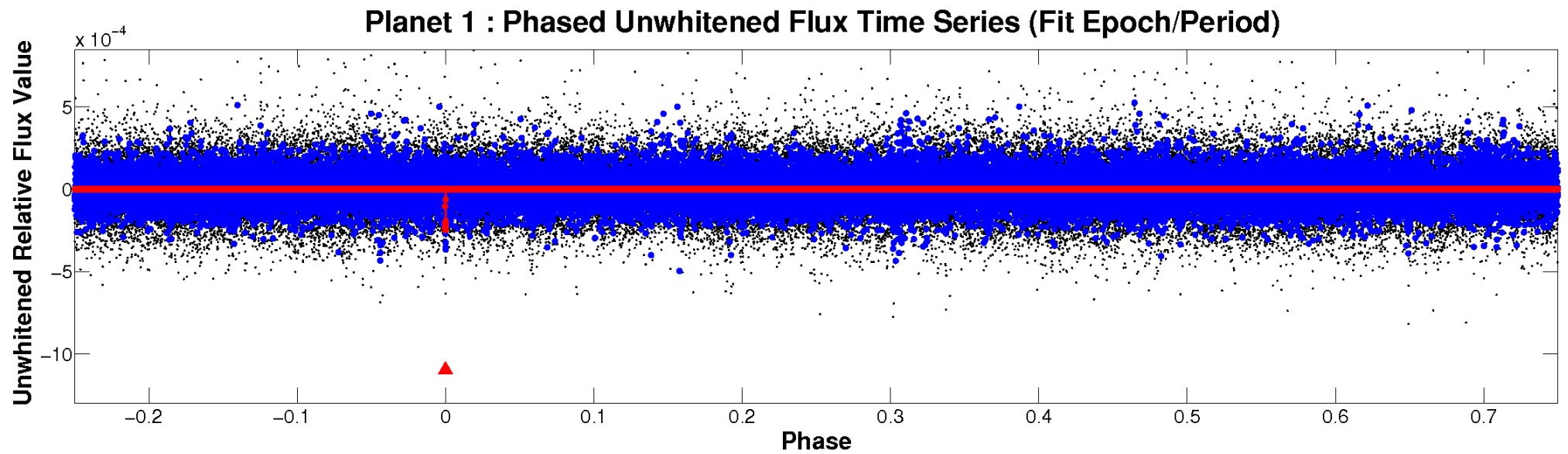


ALT Odd/Even

TCE 011200608-01

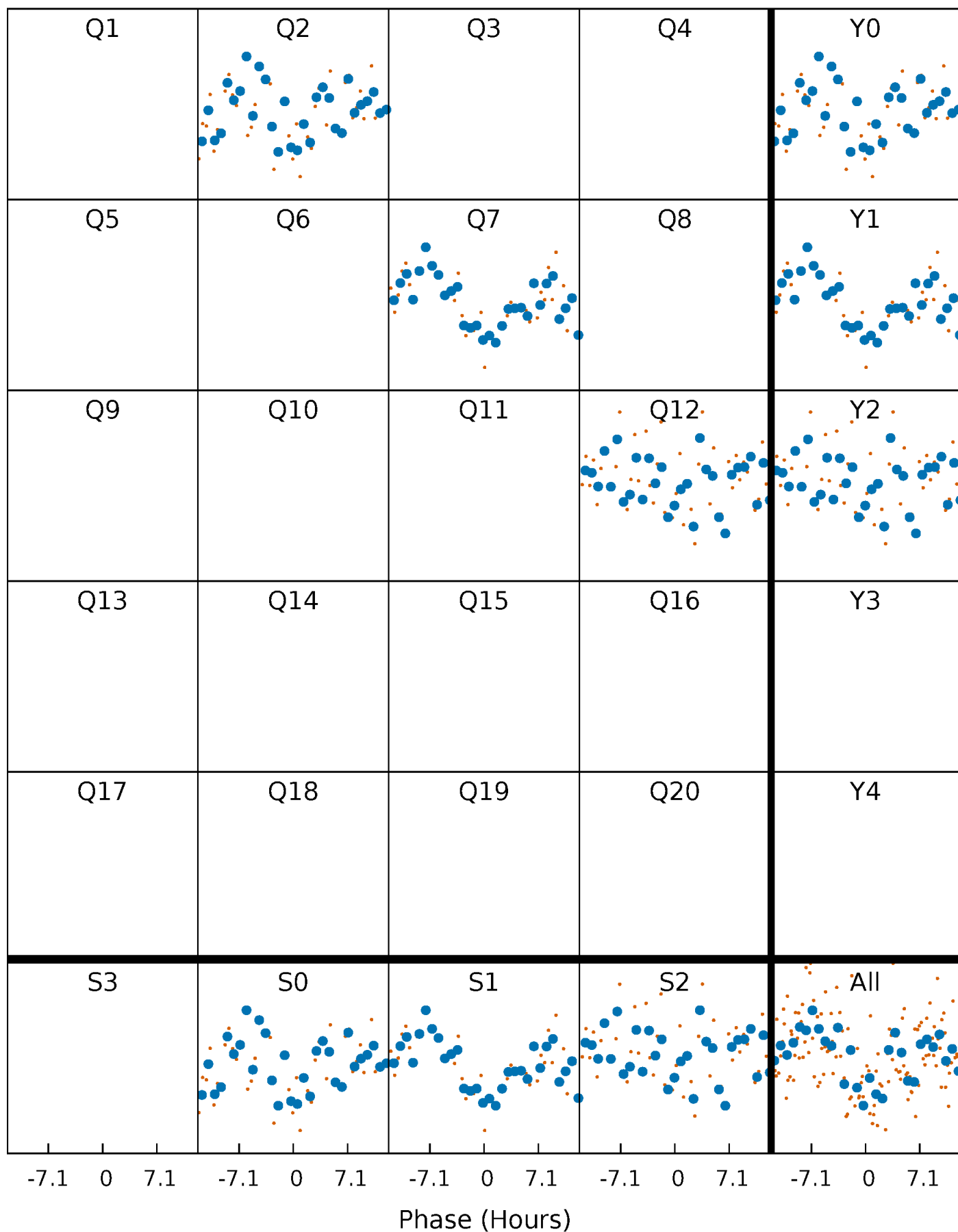


Non-Whitened Vs. Whitened Light Curve



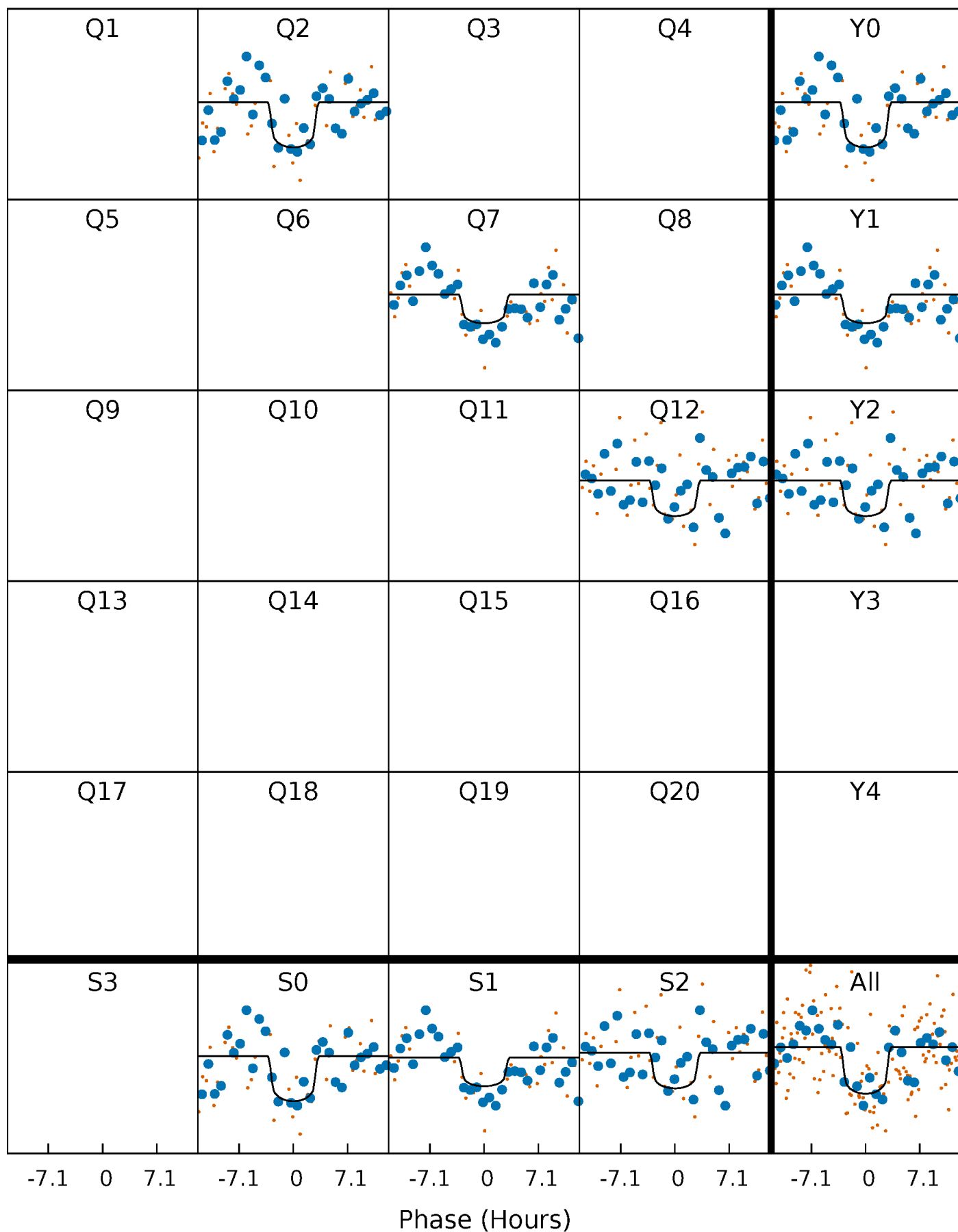
PDC Quarter-Phased Transit Curves

TCE 011200608-01 P=481.980973 Days $T_0=175.182845$ (BKJD)



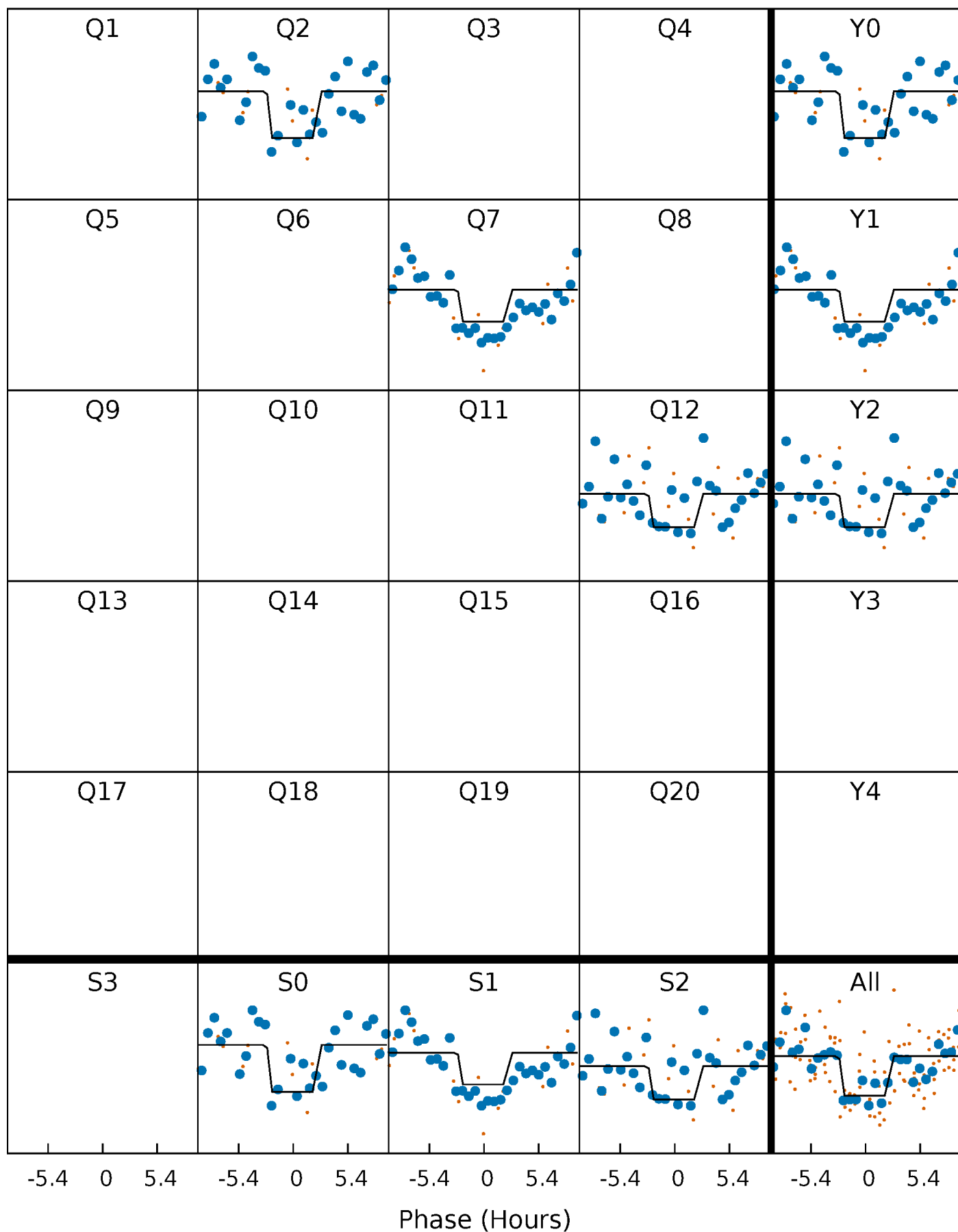
DV Quarter-Phased Transit Curves

TCE 011200608-01 P=481.980973 Days $T_0=175.182845$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

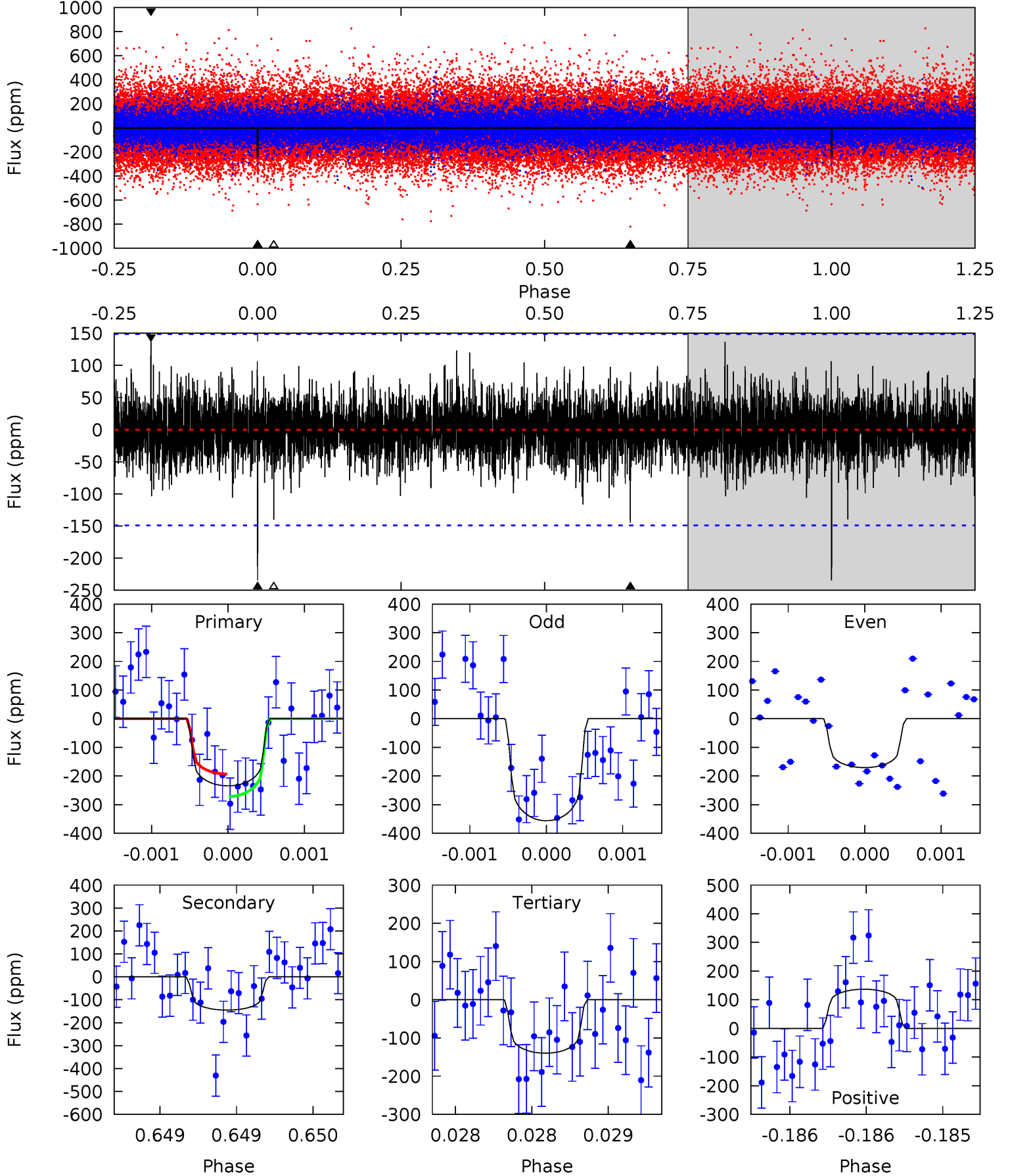
TCE 011200608-01 P=482.007247 Days $T_0=175.162645$ (BKJD)



DV Model-Shift Uniqueness Test

011200608-01, P = 481.980973 Days, E = 175.182845 Days

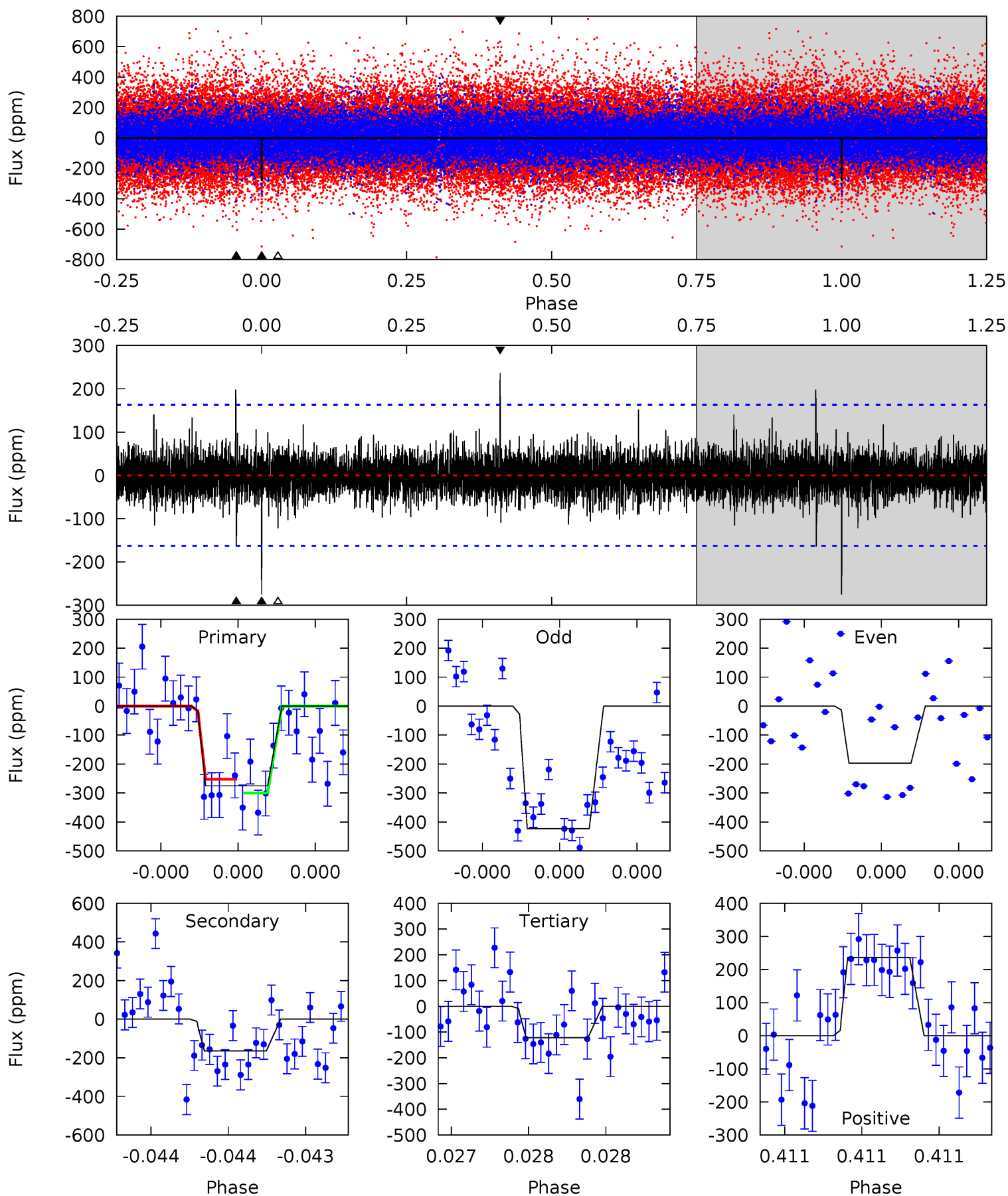
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.75	5.41	5.22	5.10	5.56	3.47	1.15	3.53	3.64	0.19	0.31	3.37	1.02	0.37	1.46



Alt Model-Shift Uniqueness Test

011200608-01, P = 482.007247 Days, E = 175.162645 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.45	5.64	4.18	8.11	5.60	3.52	1.06	5.27	1.34	1.47	-2.46	3.66	1.25	0.46	0.82



Stellar Parameters For KIC 011200608

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6096^{+79}_{-85}	$4.497^{+0.030}_{-0.120}$	$-0.300^{+0.150}_{-0.150}$	$0.928^{+0.137}_{-0.046}$	$0.986^{+0.047}_{-0.065}$	$1.739^{+0.234}_{-0.578}$
	+1%/-1%	+1%/-3%	+50%/-50%	+15%/-5%	+5%/-7%	+13%/-33%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 011200608-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-145 ± 27	$2.07^{+1.79}_{-1.34}$	334^{+12}_{-8}	4795^{+3369}_{-971}	$25427^{+192157}_{-17998}$
Alt.	-164 ± 29	$2.12^{+1.55}_{-1.34}$	334^{+13}_{-9}	4920^{+3217}_{-954}	$28613^{+174157}_{-19500}$

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 $A_{\text{obs}} \gg 1.0$

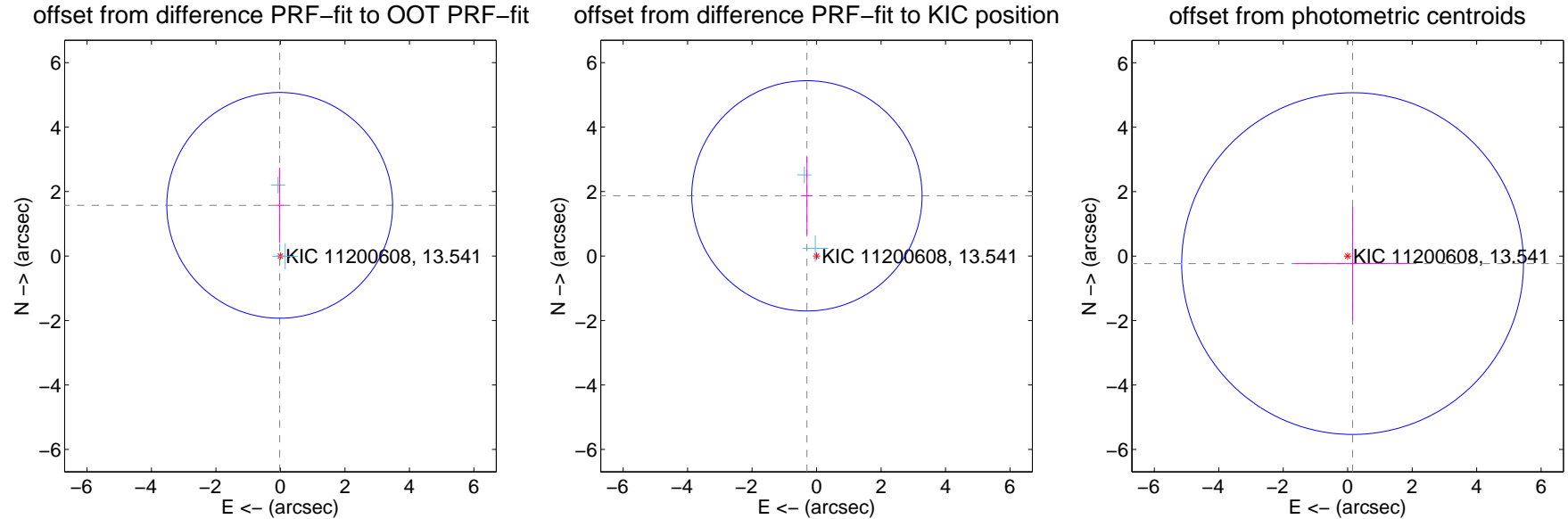
DV Centroid Data

Supplemental centroid analysis for 011200608-01. Kepler magnitude: 13.54. Transit SNR 7.26

There are 2 quarters with good PRF difference image offsets

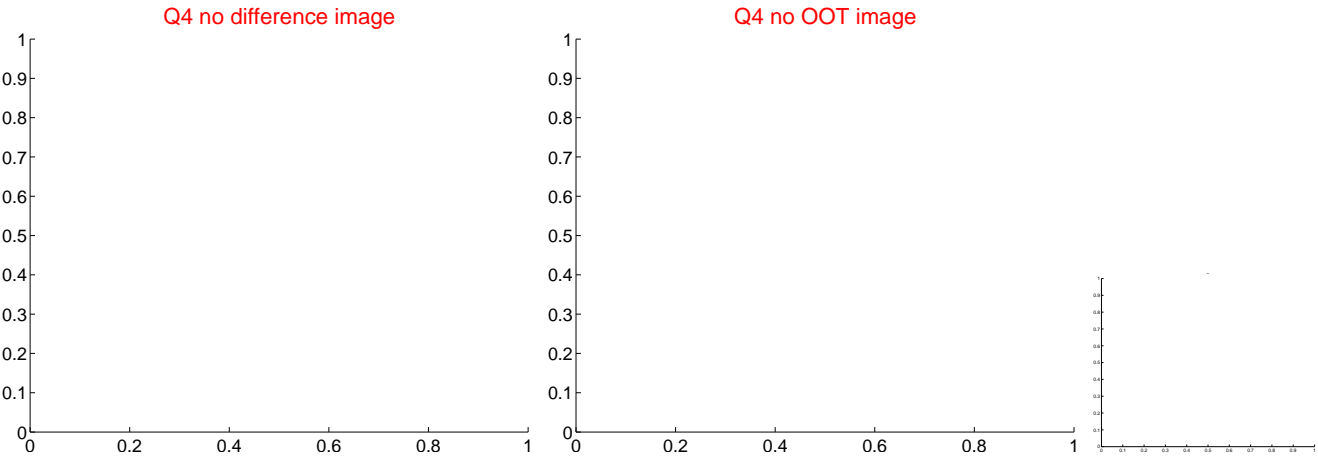
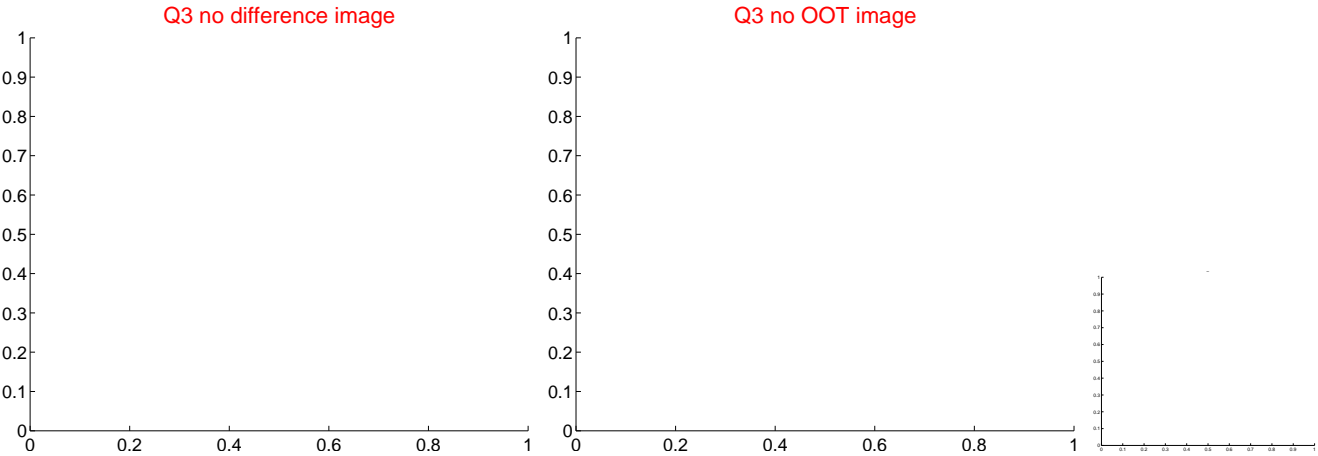
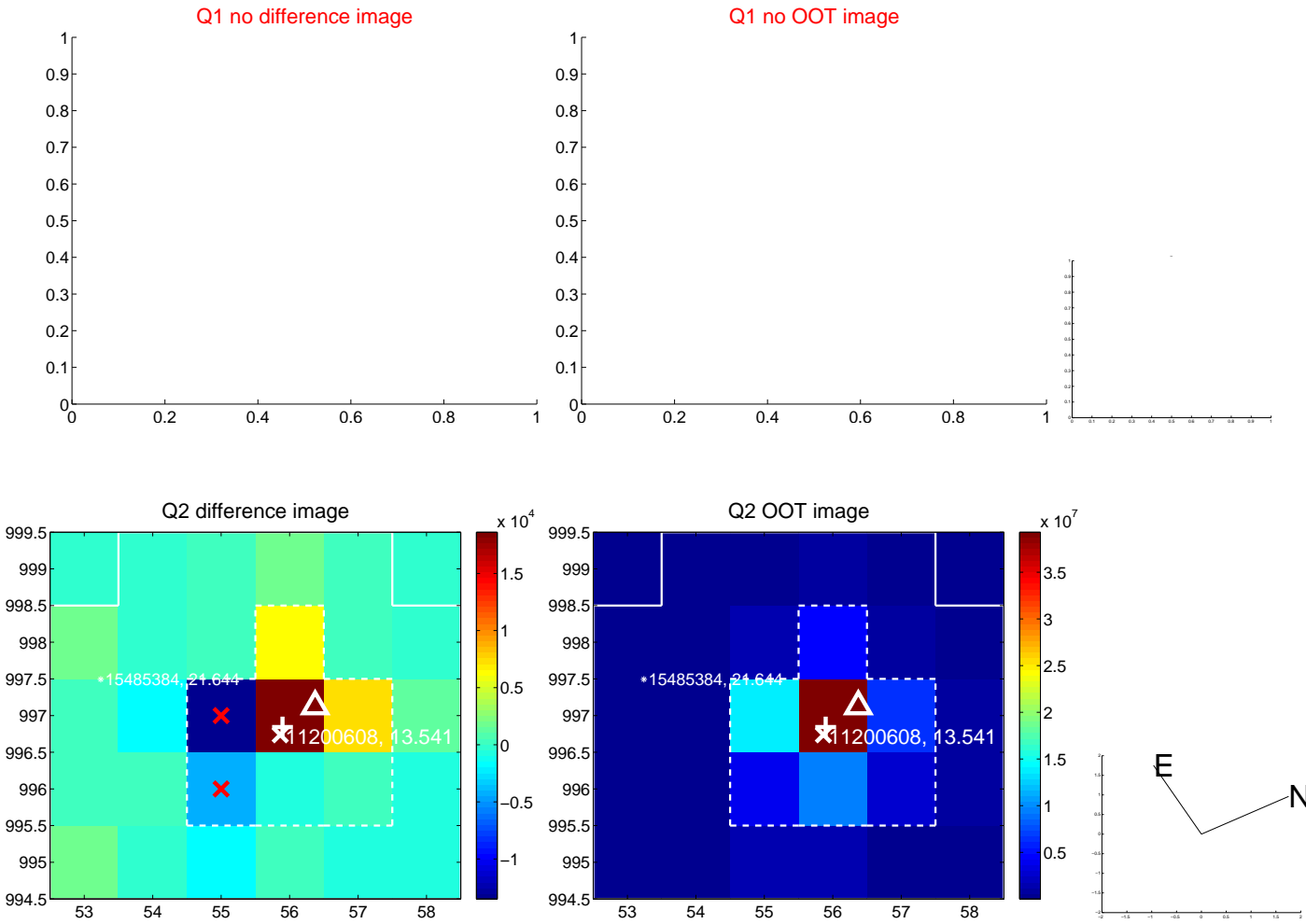
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.572 ± 1.167	1.35	0.023 ± 0.127	1.572 ± 1.167
PRF-fit source offset from KIC position	1.891 ± 1.191	1.59	0.300 ± 0.179	1.867 ± 1.206
photometric centroid source offset	0.28 ± 1.77	0.16	-0.15 ± 1.77	-0.23 ± 1.77

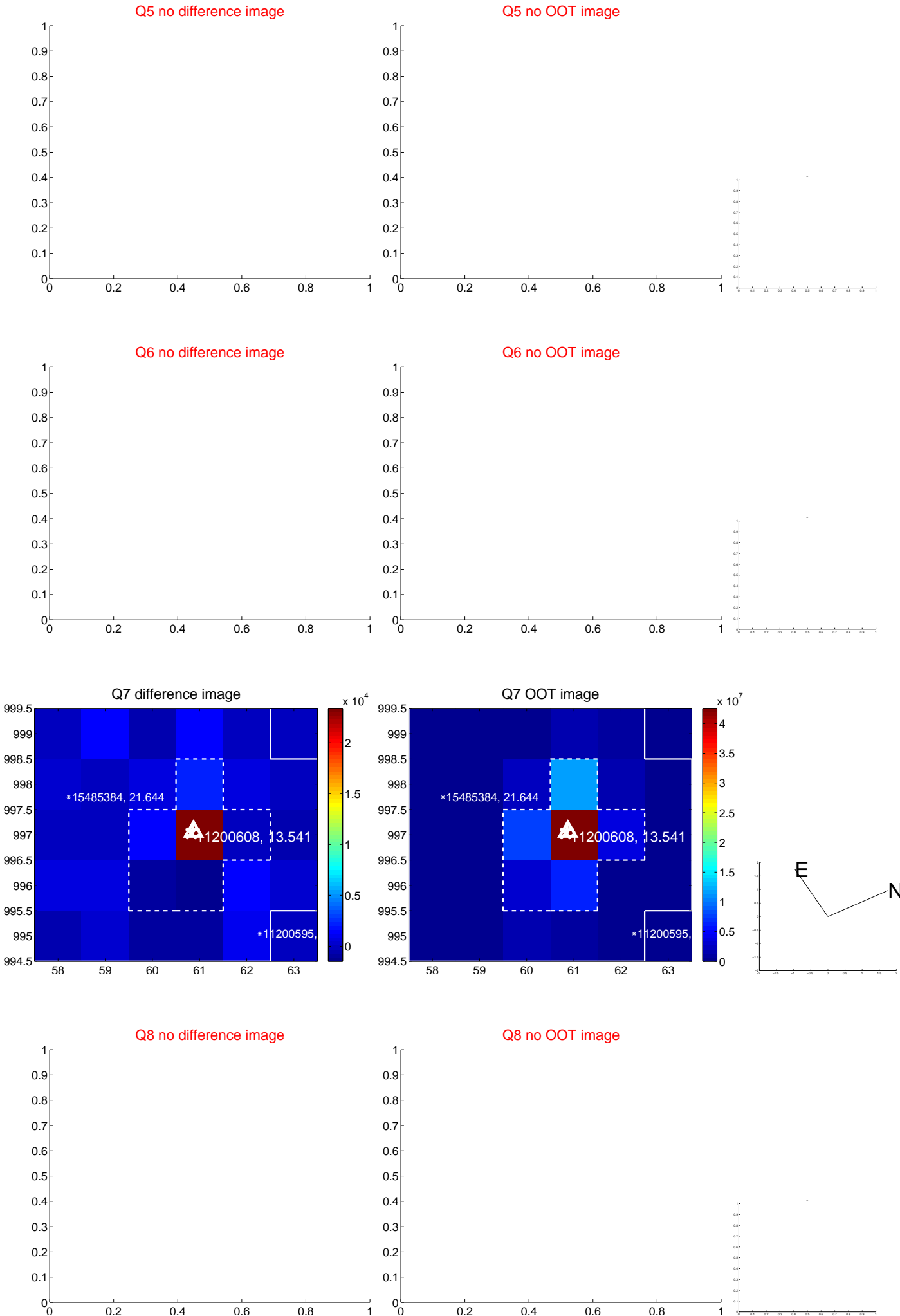


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

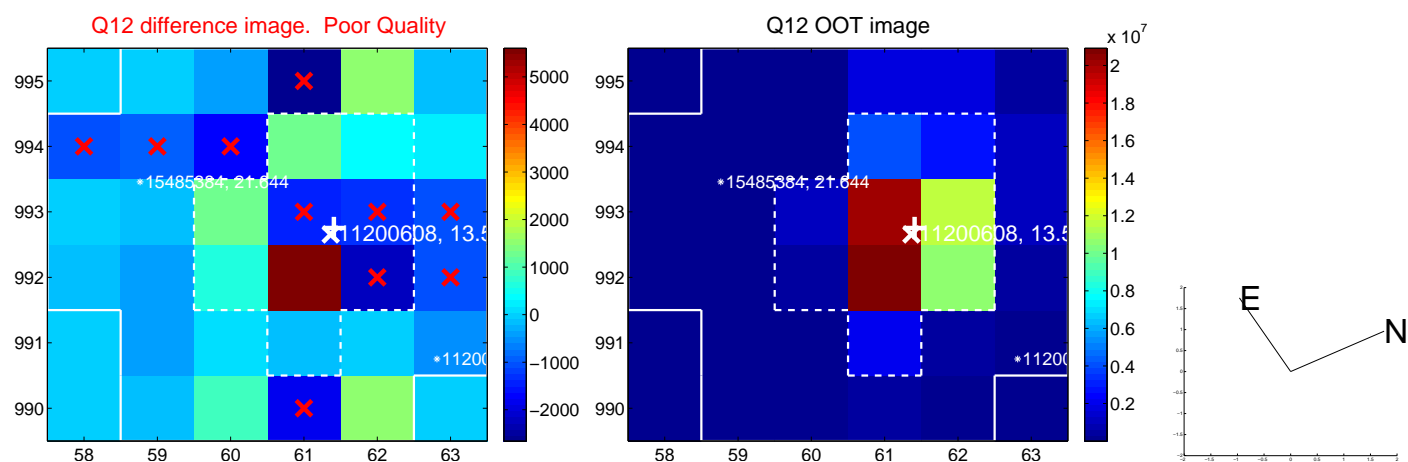
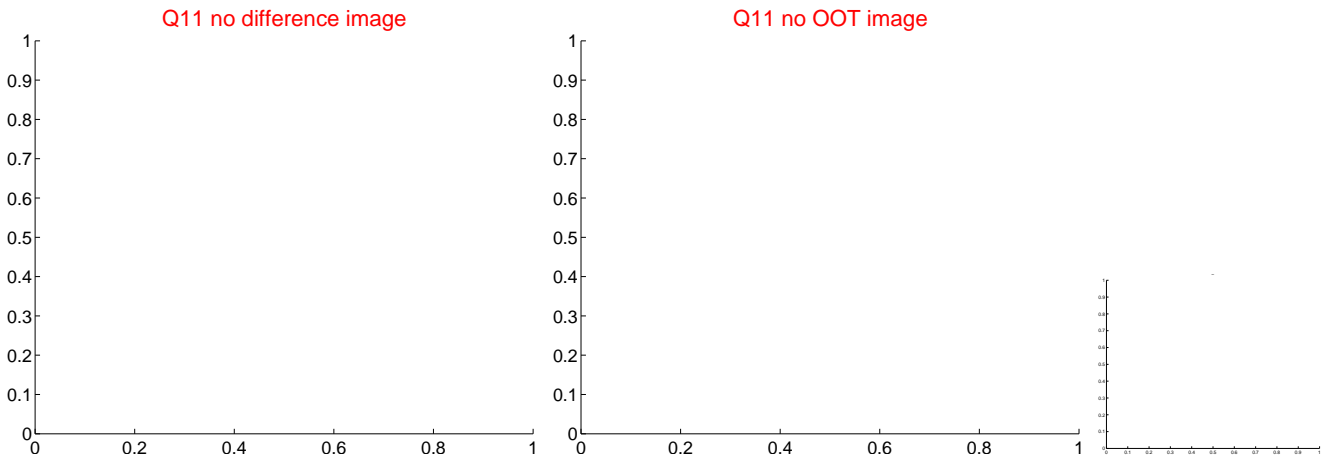
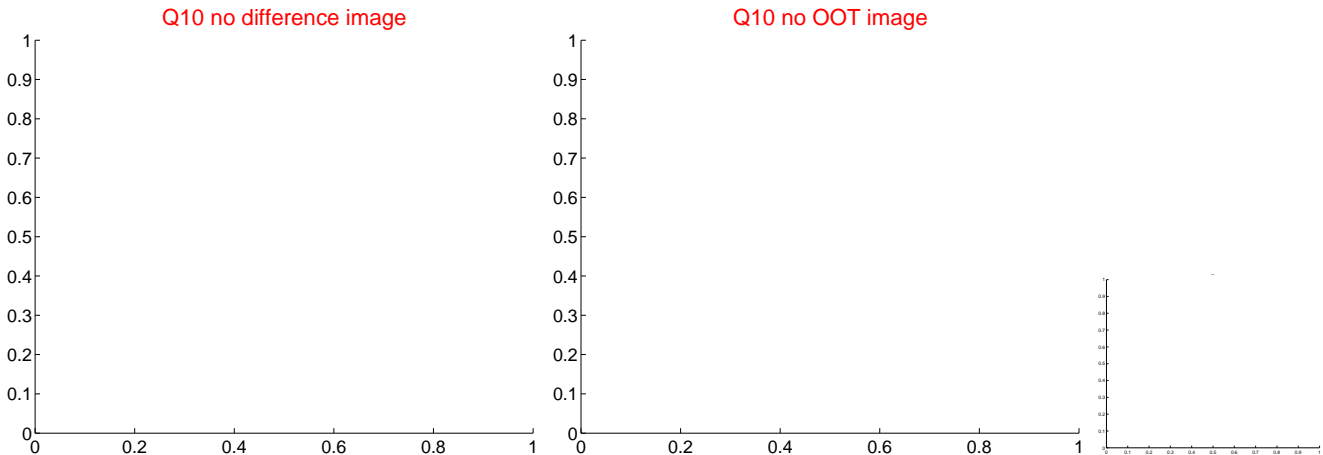
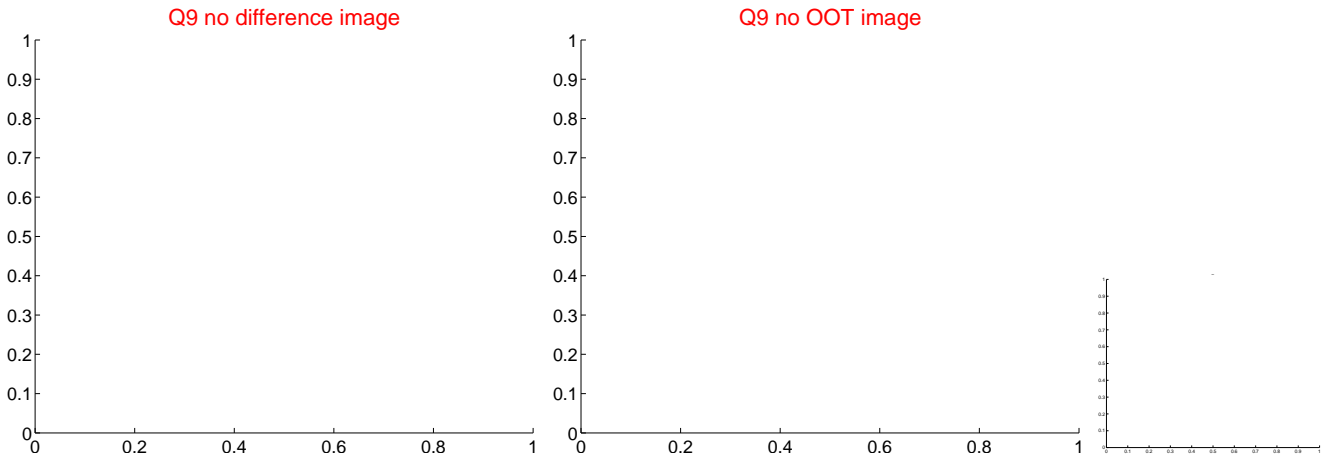
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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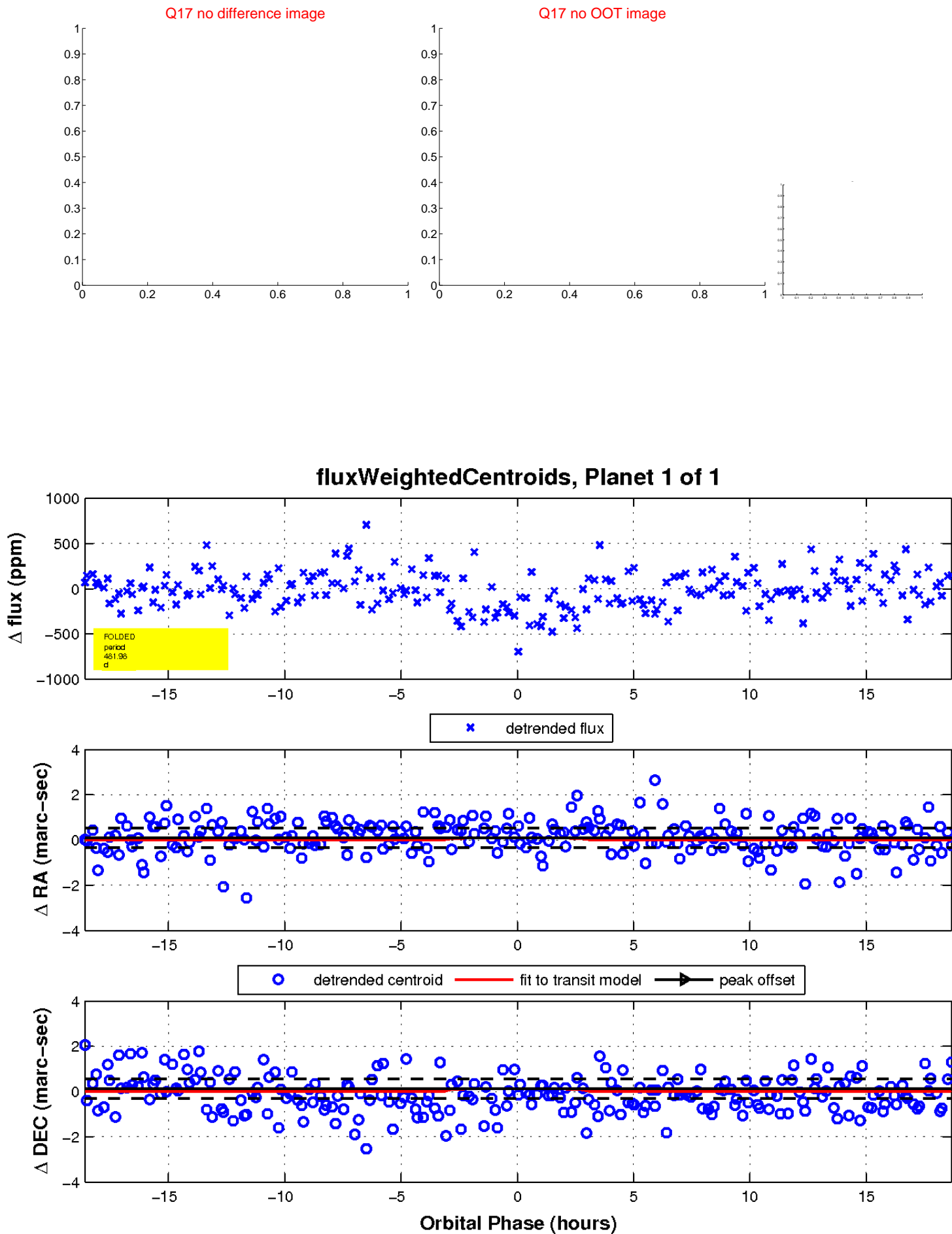
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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UKIRT Image

Declination

