

KIC 011769801

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})
011769801-01	OBS	2633.01	29.714886	151.721653	342.9	64.226	16.1	46.1	1.92	6440	6.94	135.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011769801-01	OBS	FP	0.00	1	0	0	0	LPP_DV

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 011769801-01

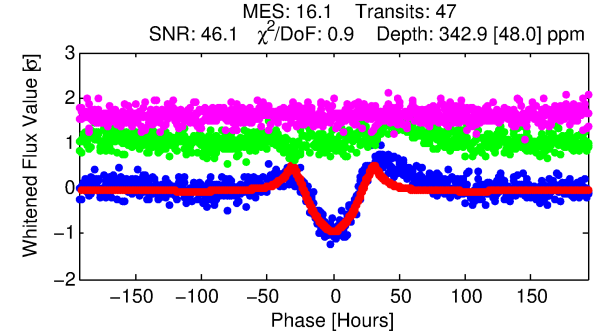
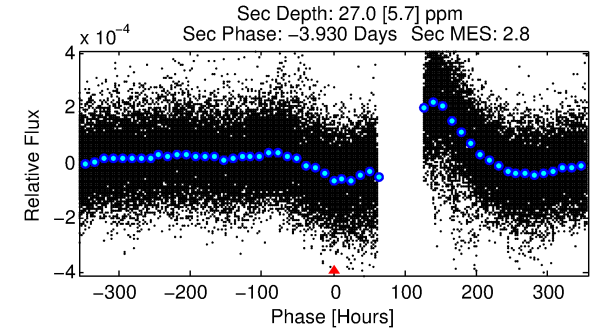
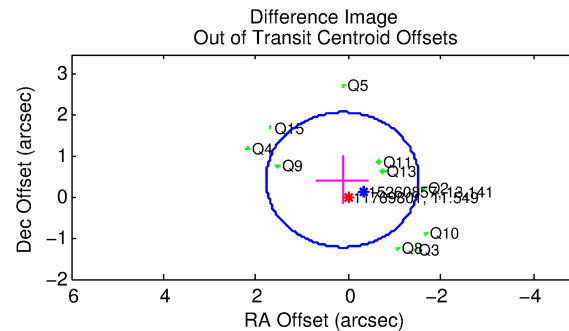
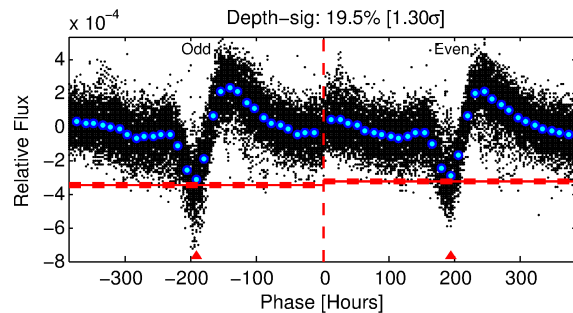
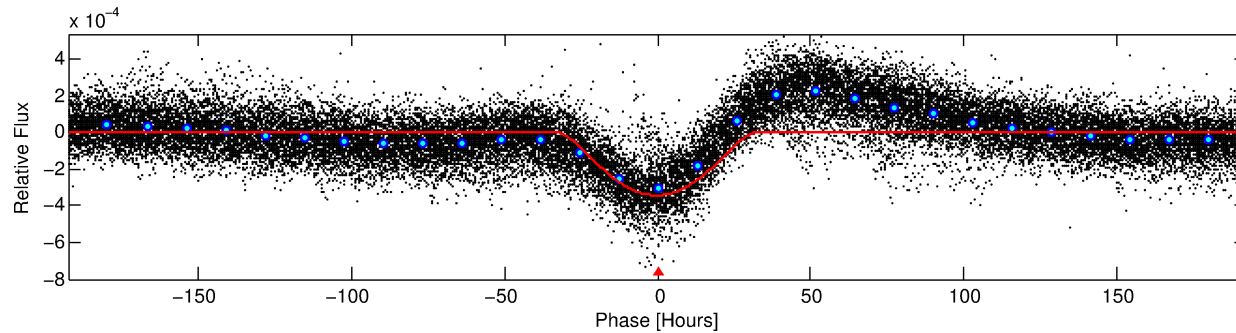
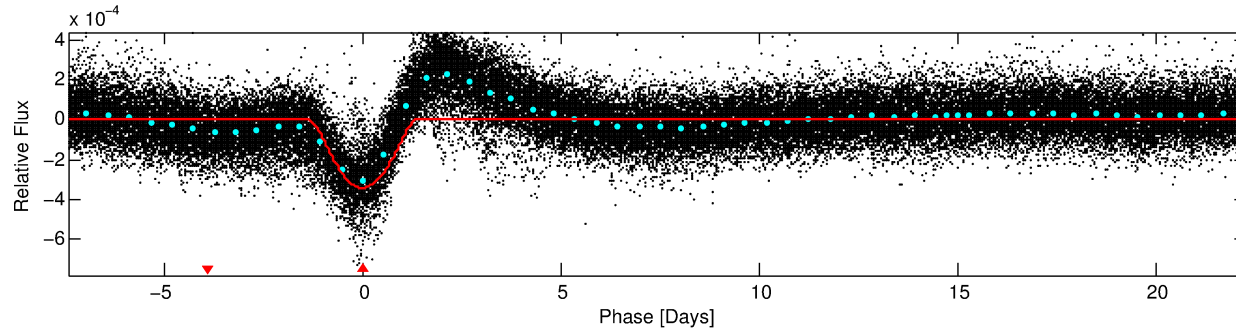
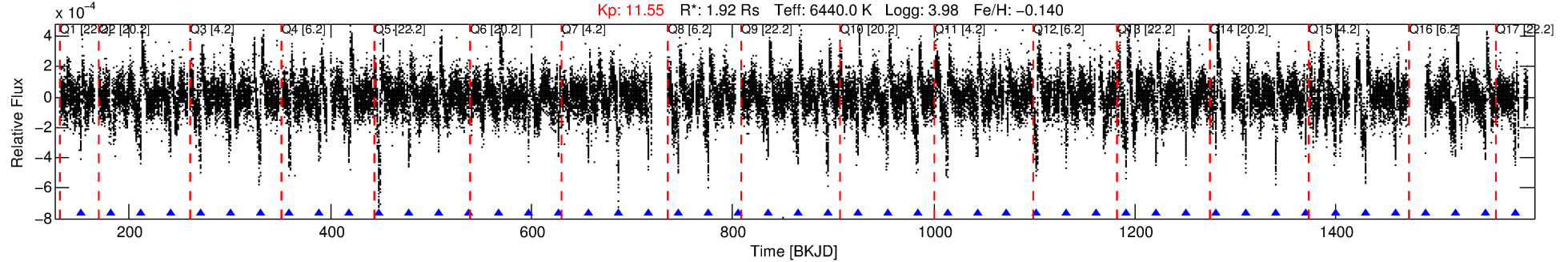
No Significant Match Found

DV One-Page Summary

KIC: 11769801 Candidate: 1 of 1 Period: 29.715 d

KOI: K02633 Corr: No Ephemeris Match

Kp: 11.55 R*: 1.92 Rs Teff: 6440.0 K Logg: 3.98 Fe/H: -0.140



DV Fit Results:

Period = 29.71489 [0.00075] d
Epoch = 151.7217 [0.0209] BKJD
Rp/R* = 0.0331 [0.0091]
a/R* = 1.37 [0.03]
b = 1.00 [0.02]
Seff = 135.57 [59.41]
Teq = 870 [95] K
Rp = 6.94 [2.78] Re
a = 0.2048 [0.0558] AU
Ag = 12.93 [9.38] [1.27σ]
Teff = 2551 [380] K [4.29σ]

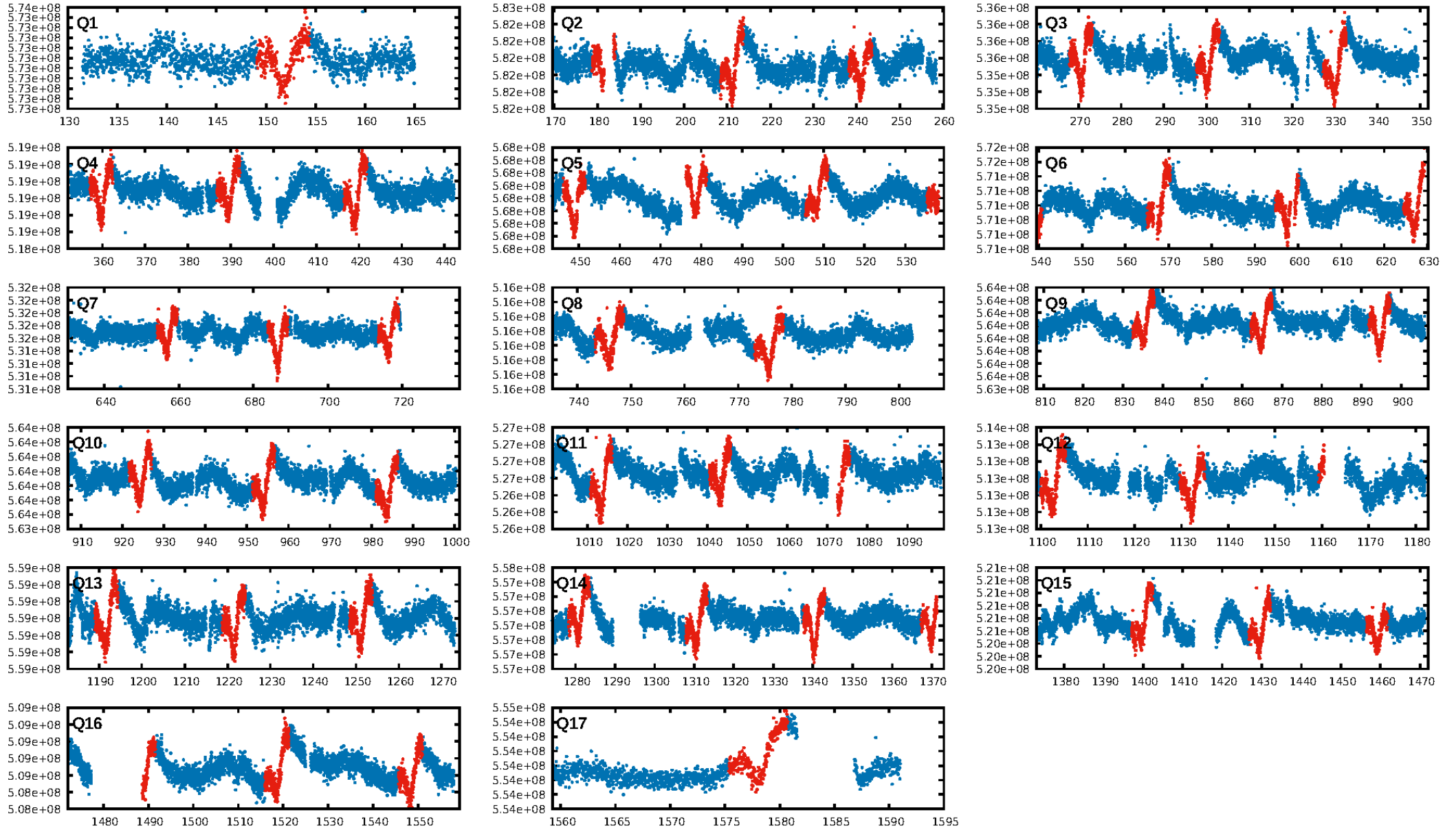
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 4.13e-58
RollingBand-fgt: 1.00 [45/45]
GhostDiagnostic-chr: 4.532
Centroid-sig: 0.0%
Centroid-so: 0.141 arcsec [1.67σ]
OotOffset-rm: 0.450 arcsec [0.82σ]
KicOffset-rm: 0.522 arcsec [0.94σ]
OotOffset-st: 2/3/2/3 [10]
KicOffset-st: 2/3/2/3 [10]
DiffImageQuality-fgm: 0.90 [9/10]
DiffImageOverlap-fno: 1.00 [11/11]

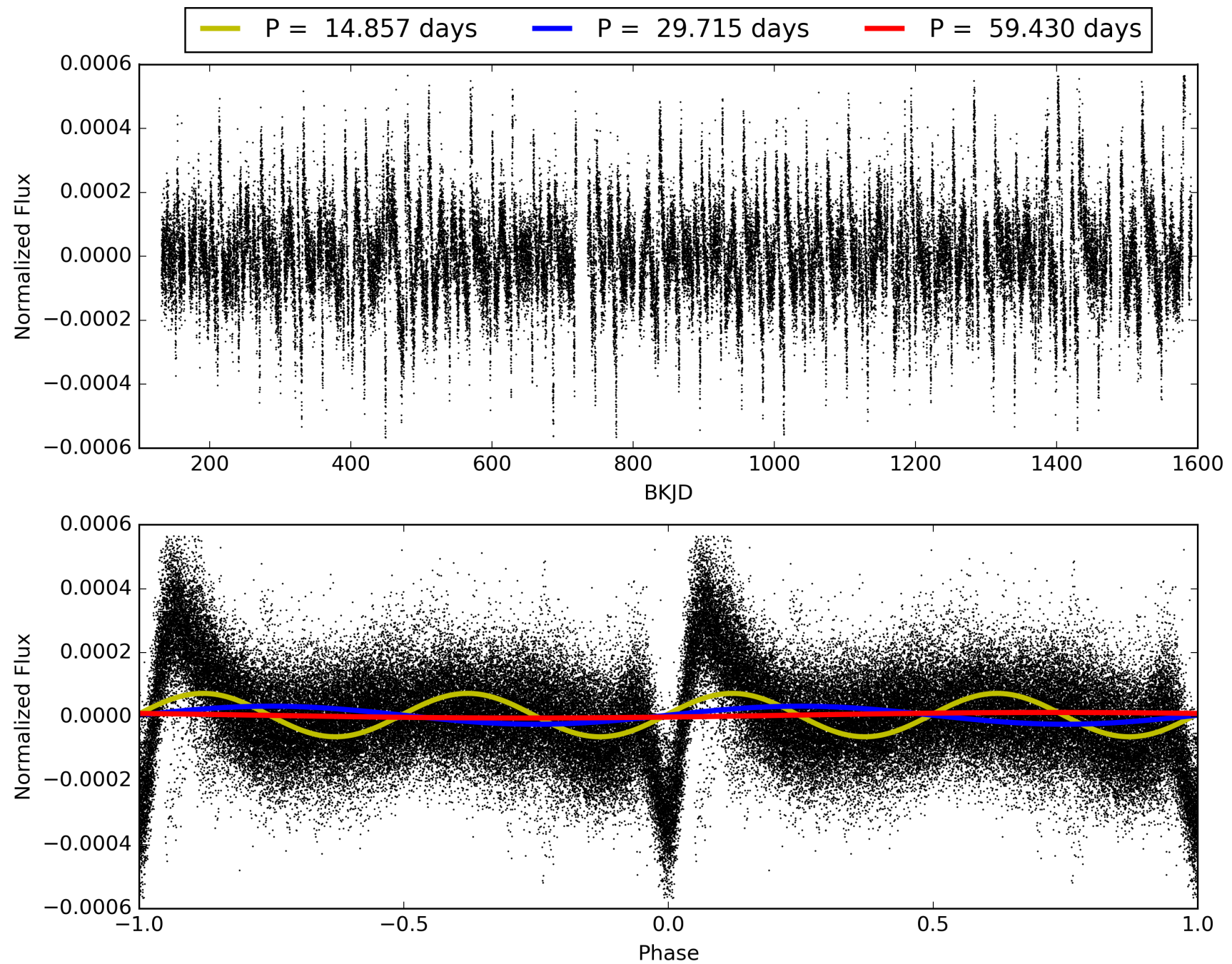
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 23:30:07 Z

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

TCE 011769801-01, PDC Light Curves

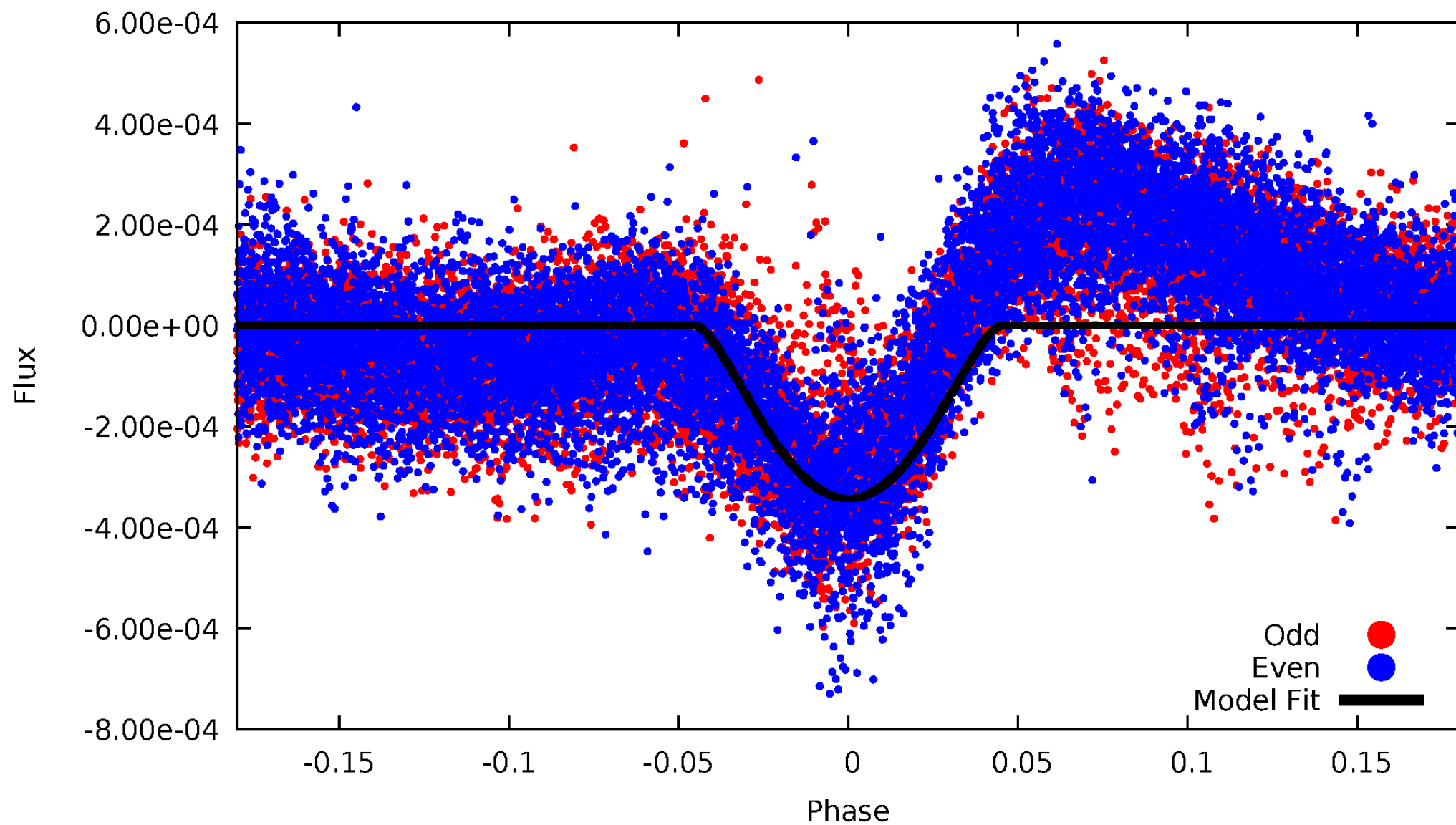


TCE 011769801-01



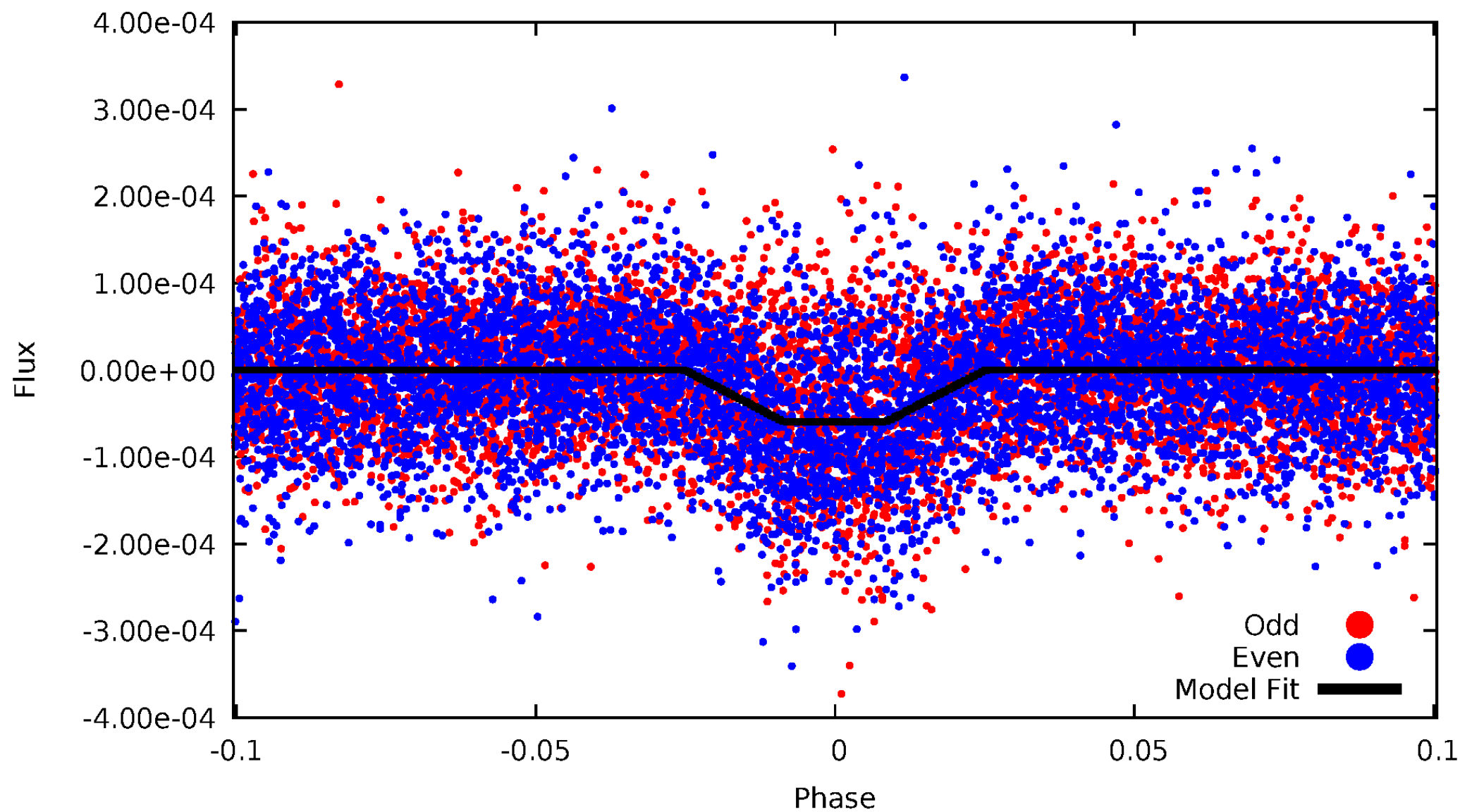
DV Odd/Even

TCE 011769801-01

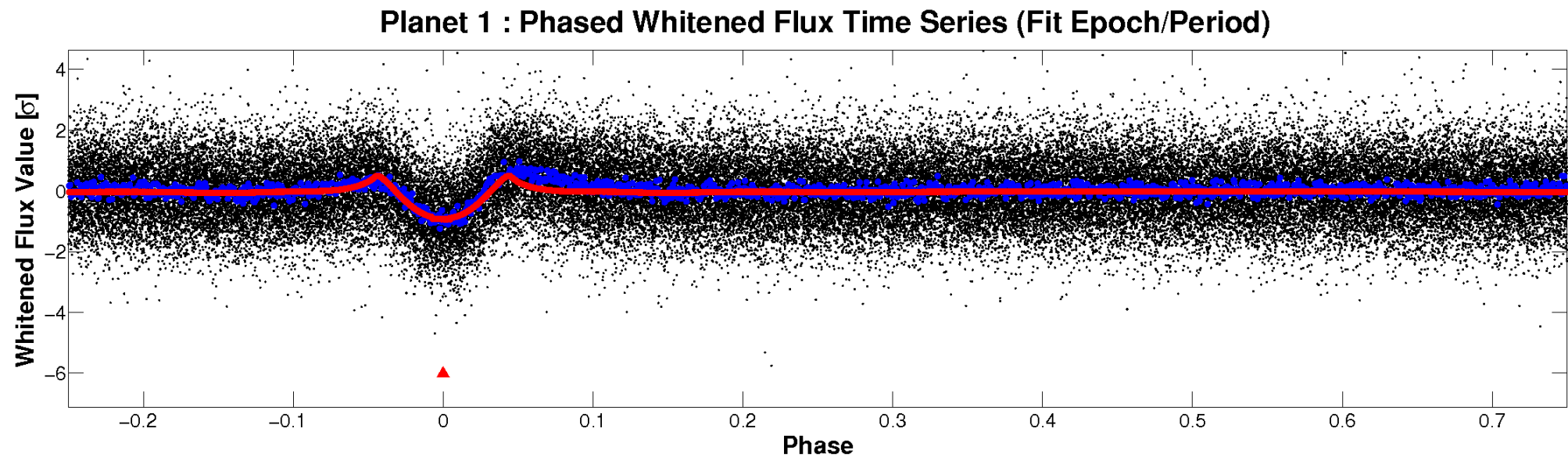
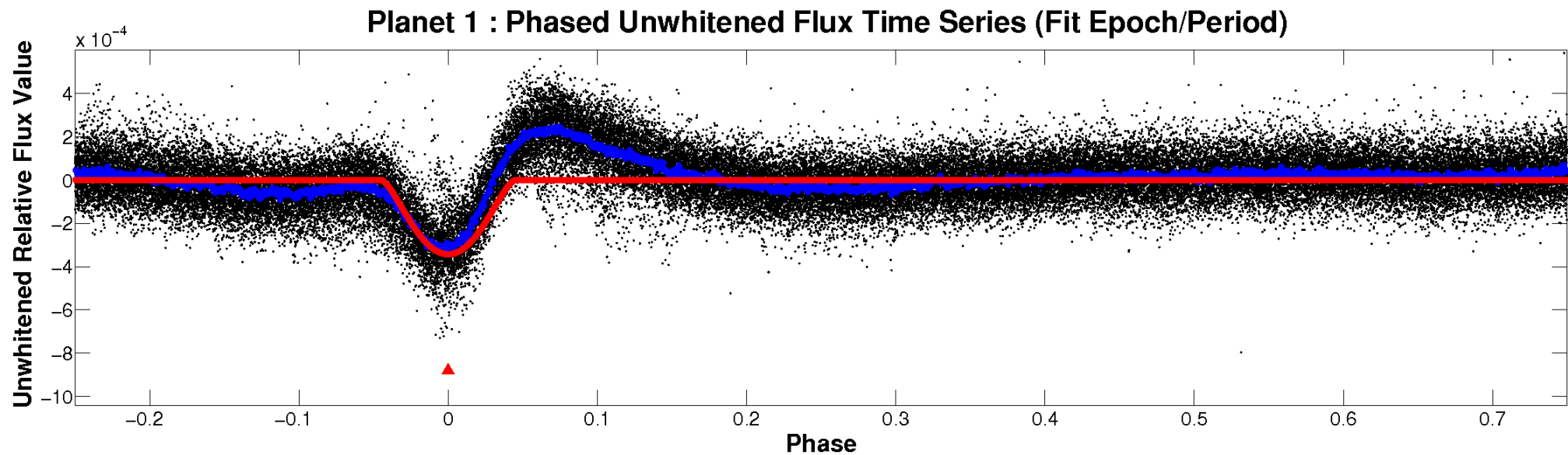


ALT Odd/Even

TCE 011769801-01

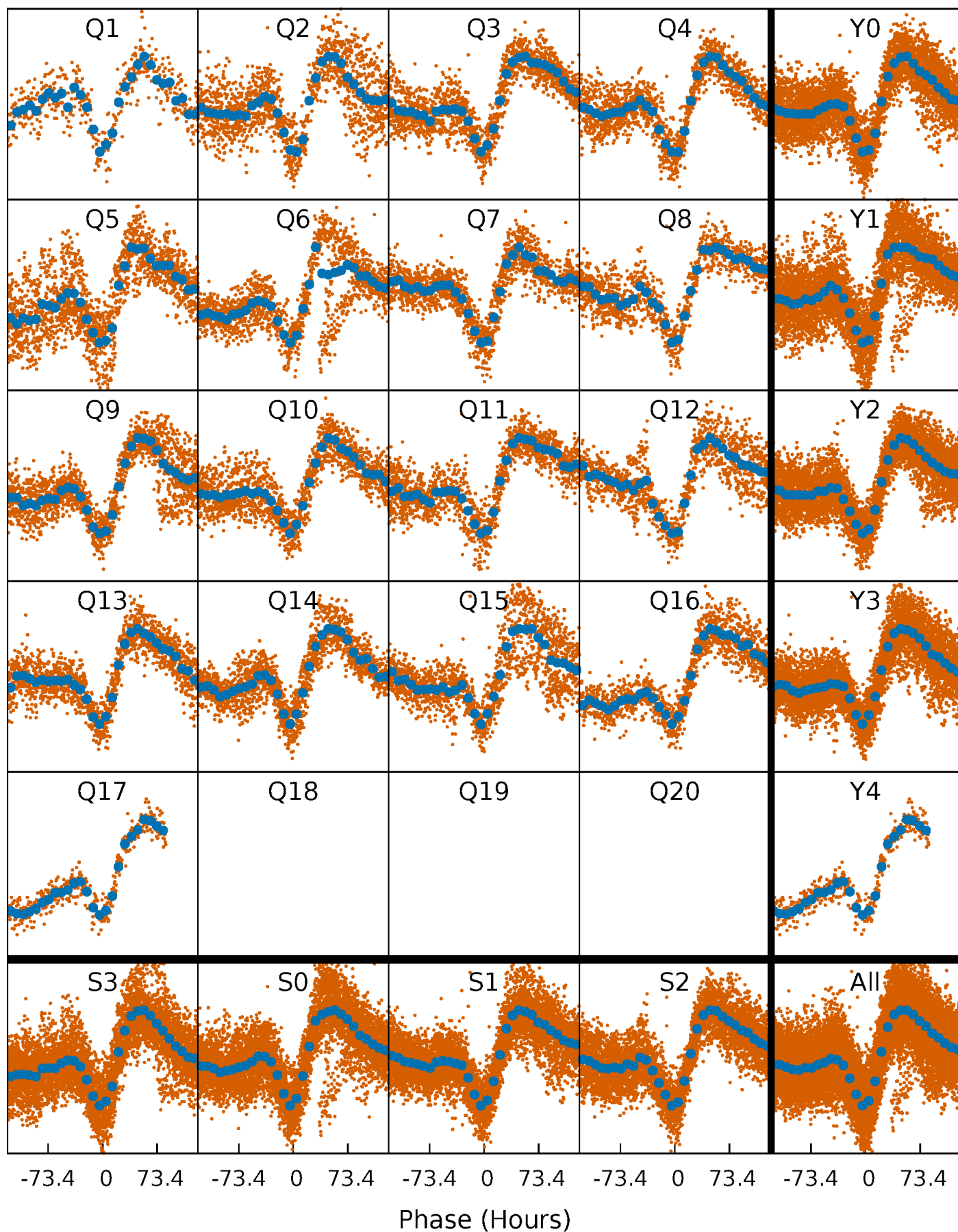


Non-Whitened Vs. Whitened Light Curve



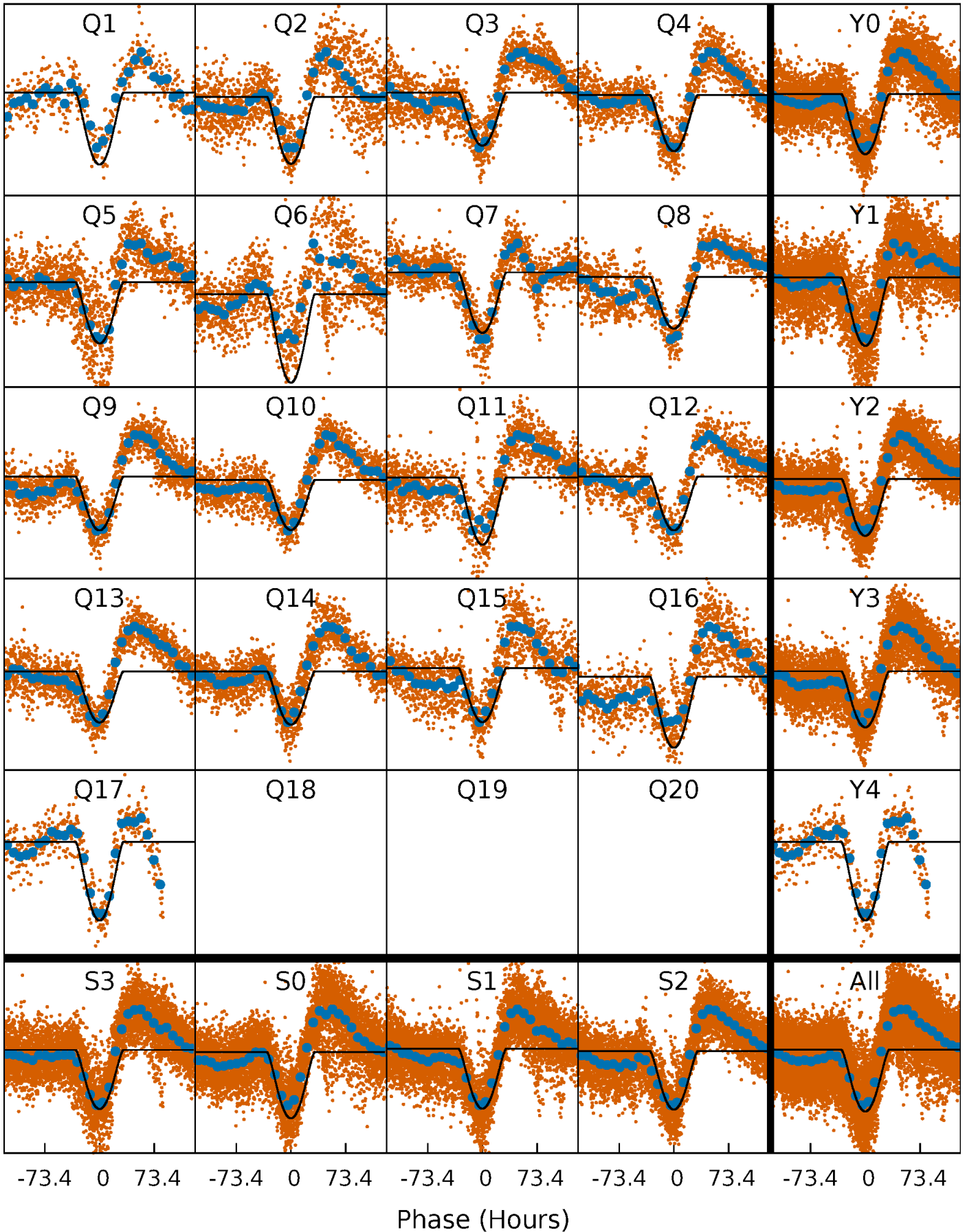
PDC Quarter-Phased Transit Curves

TCE 011769801-01 P= 29.714886 Days $T_0=151.721653$ (BKJD)



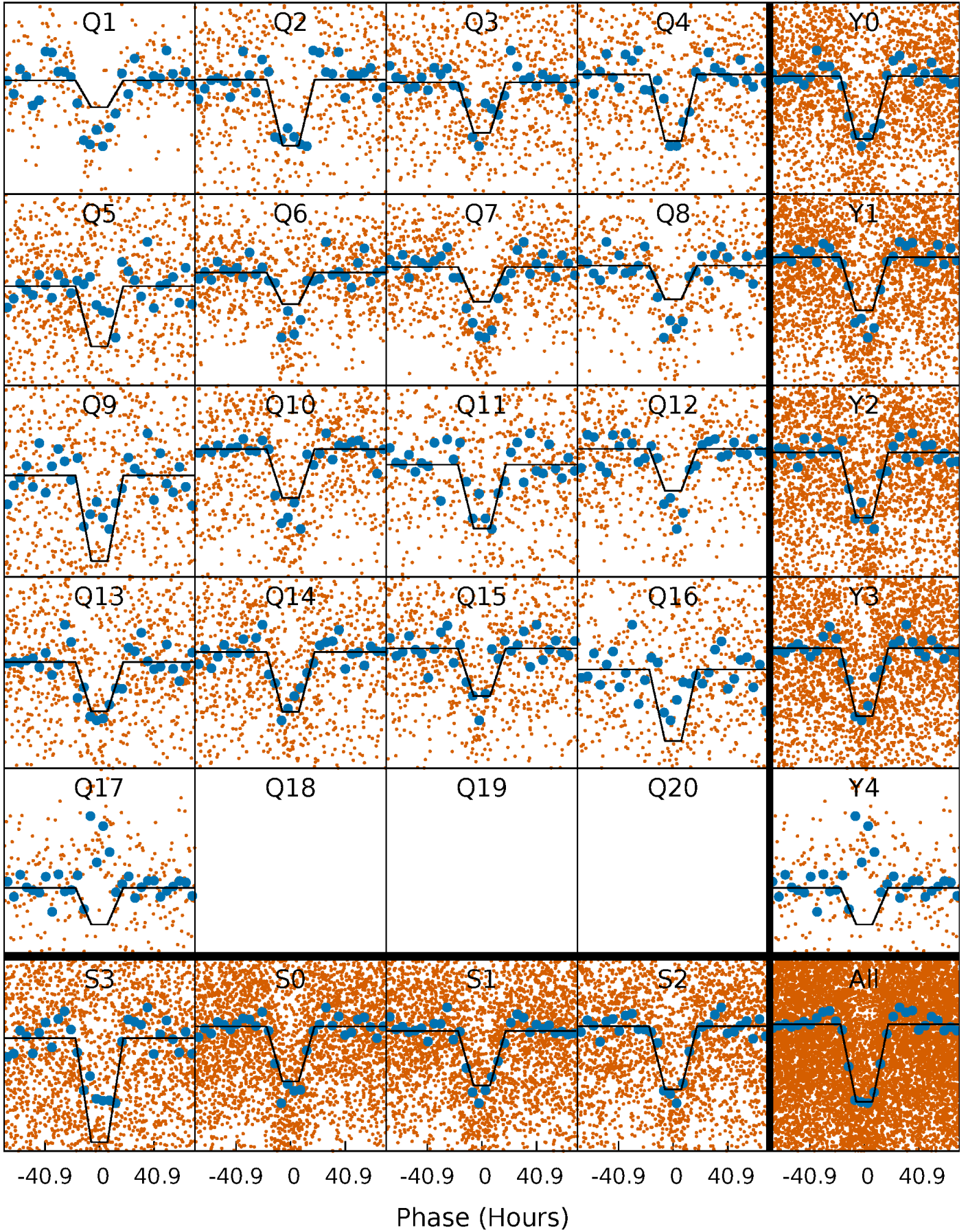
DV Quarter-Phased Transit Curves

TCE 011769801-01 P= 29.714886 Days $T_0=151.721653$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

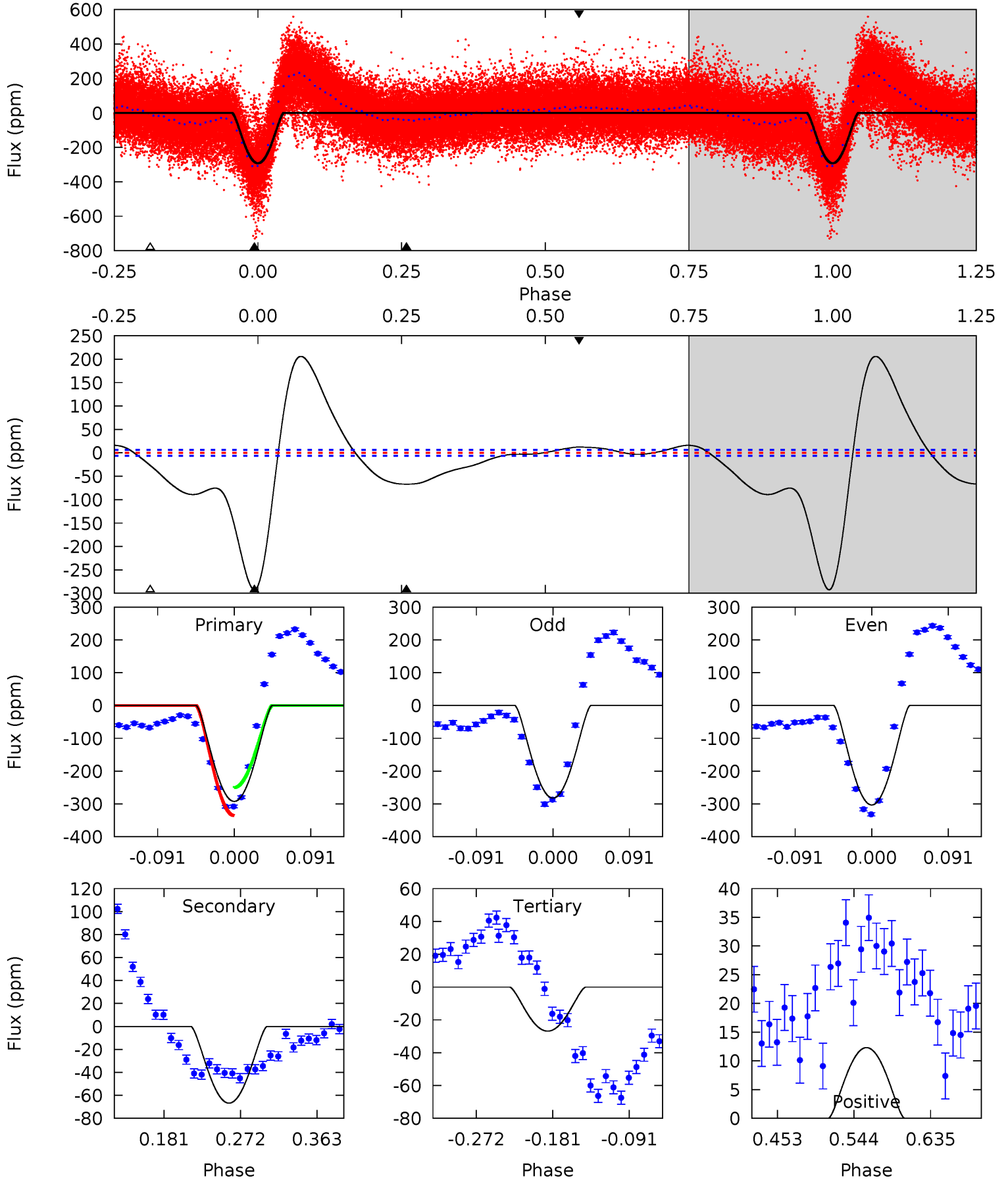
TCE 011769801-01 P= 29.710196 Days $T_0=151.858666$ (BKJD)



DV Model-Shift Uniqueness Test

011769801-01, P = 29.714886 Days, E = 122.006767 Days

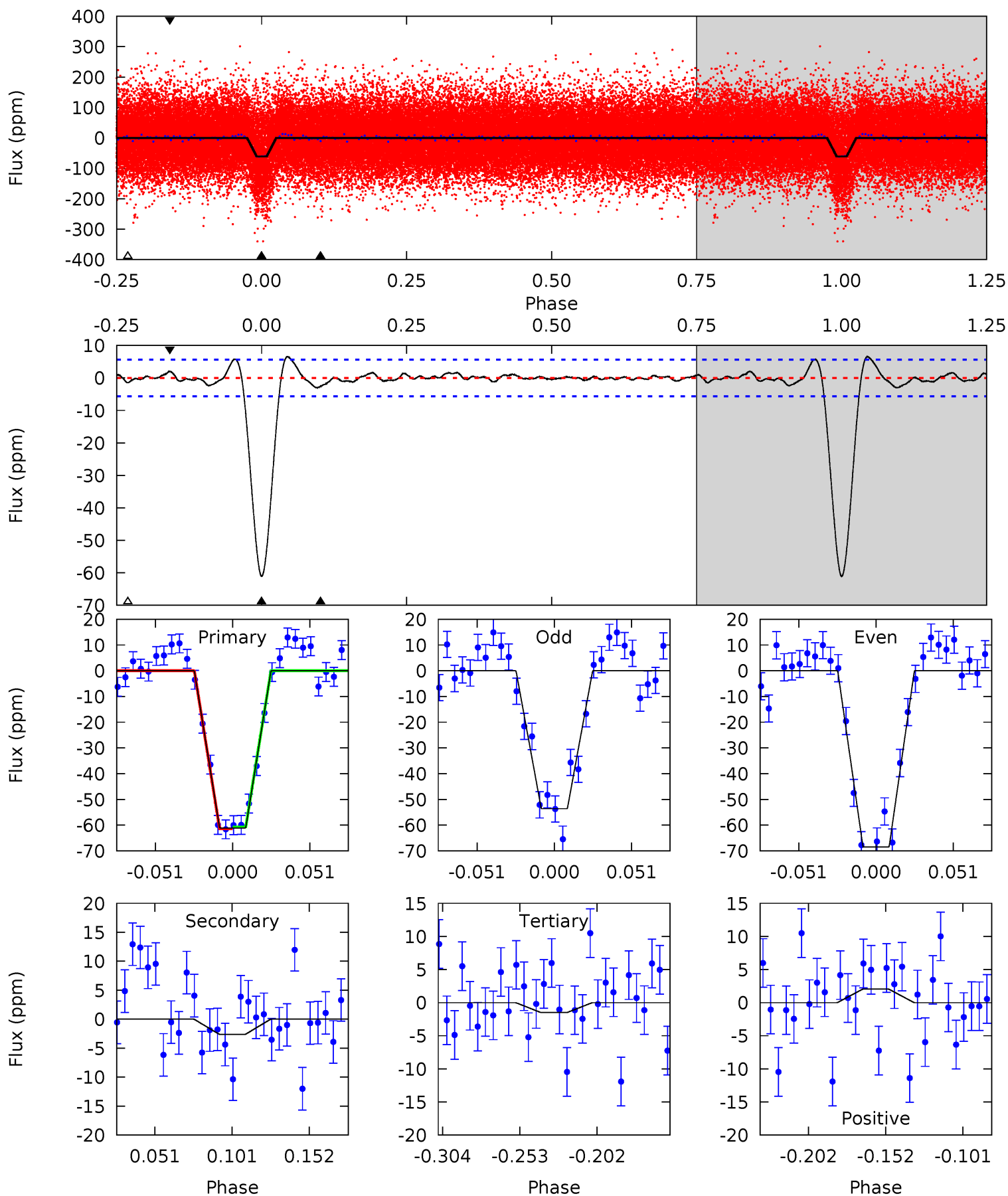
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
209.5	47.9	19.2	8.82	4.59	1.69	36.3	190.3	200.7	28.6	39.0	7.55	0.98	0.41	31.1



Alt Model-Shift Uniqueness Test

011769801-01, P = 29.710196 Days, E = 122.148470 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
50.9	2.18	1.25	1.70	4.71	1.95	0.70	49.6	49.2	0.93	0.48	6.22	0.93	0.10	0.28



Stellar Parameters For KIC 011769801

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6440^{+162}_{-162}	$3.984^{+0.247}_{-0.133}$	$-0.140^{+0.300}_{-0.250}$	$1.921^{+0.410}_{-0.563}$	$1.299^{+0.193}_{-0.214}$	$0.258^{+0.389}_{-0.100}$
	+3%/-3%	+6%/-3%	+214%/-179%	+21%/-29%	+15%/-16%	+151%/-39%
Source	PHO1	FLK73	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 011769801-01 / KOI 2633.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-67 ± 1	$6.78^{+2.37}_{-2.01}$	1205^{+83}_{-96}	3624^{+380}_{-278}	34^{+34}_{-15}
Alt.	-3 ± 1	$2.05^{+1.68}_{-1.32}$	1203^{+78}_{-97}	3119^{+1349}_{-534}	13^{+100}_{-10}

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

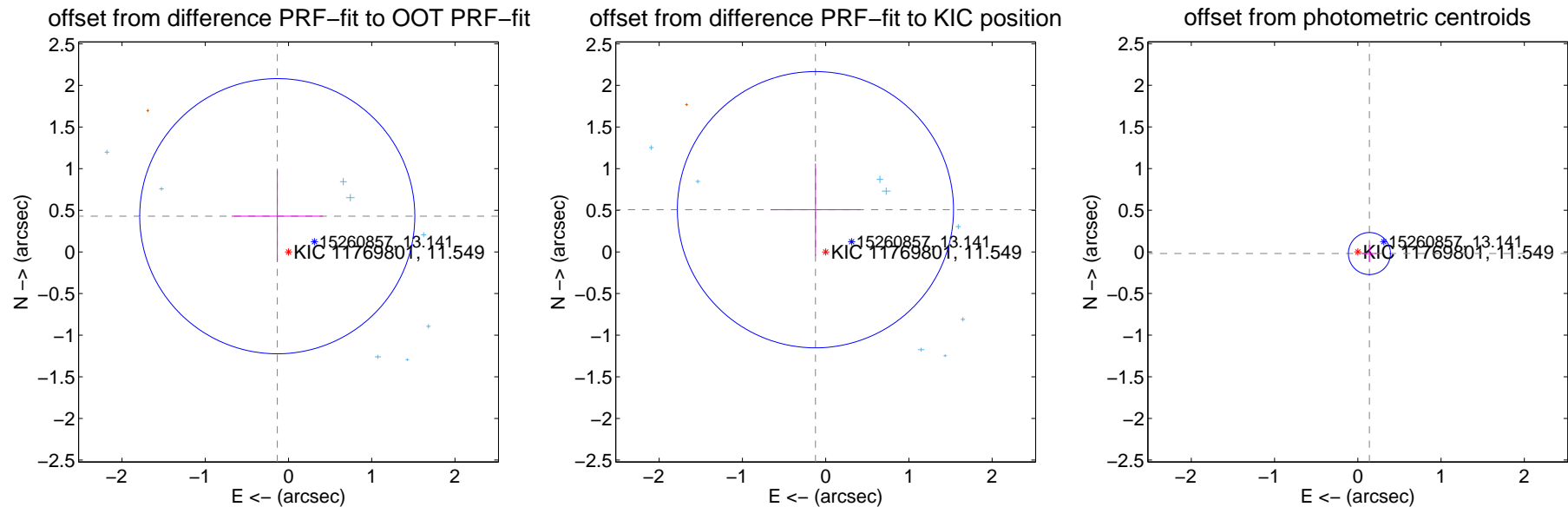
DV Centroid Data

Supplemental centroid analysis for 011769801-01. **Kepler magnitude: 11.55.** Transit SNR 46.08

There are 9 quarters with good PRF difference image offsets

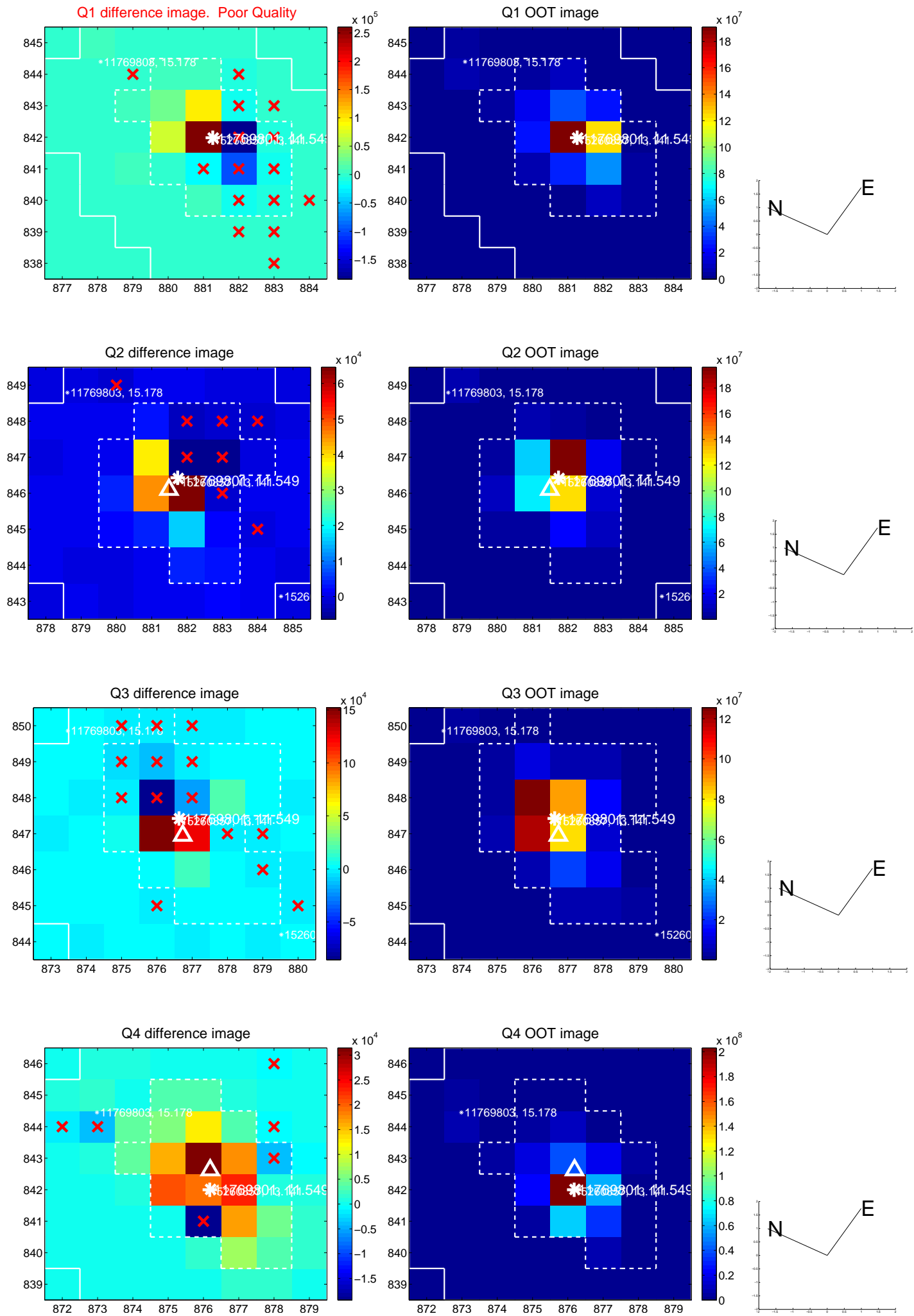
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.450 ± 0.551	0.82	0.135 ± 0.547	0.429 ± 0.551
PRF-fit source offset from KIC position	0.522 ± 0.553	0.94	0.123 ± 0.541	0.507 ± 0.554
photometric centroid source offset	0.14 ± 0.08	1.67	-0.14 ± 0.08	-0.02 ± 0.10

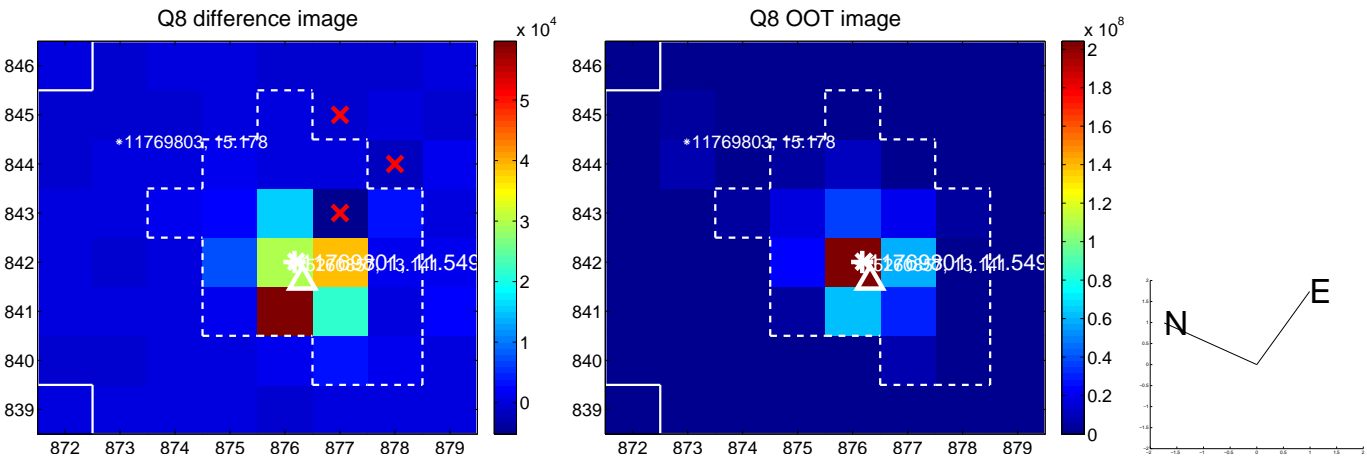
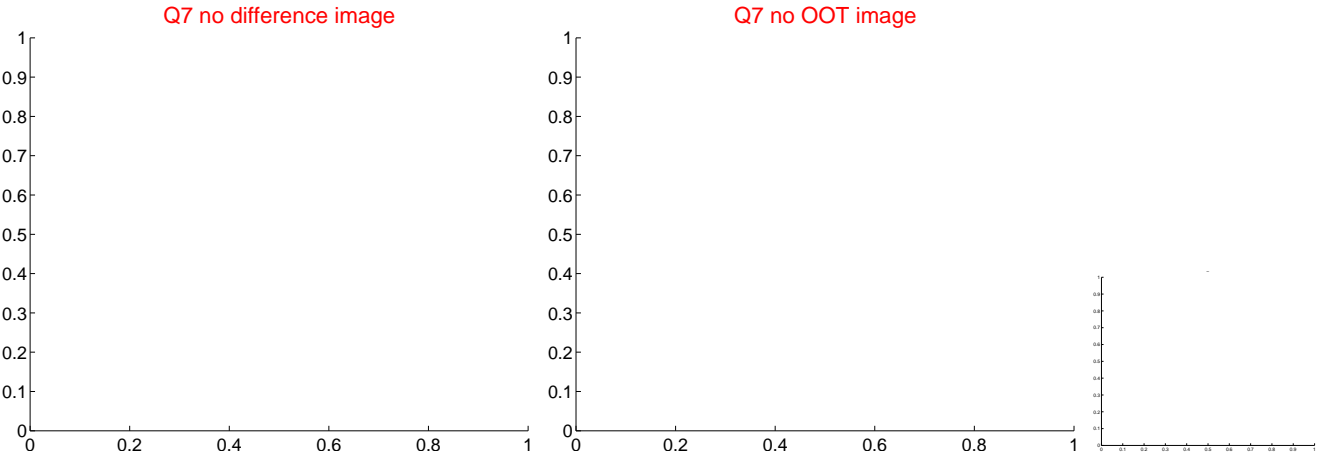
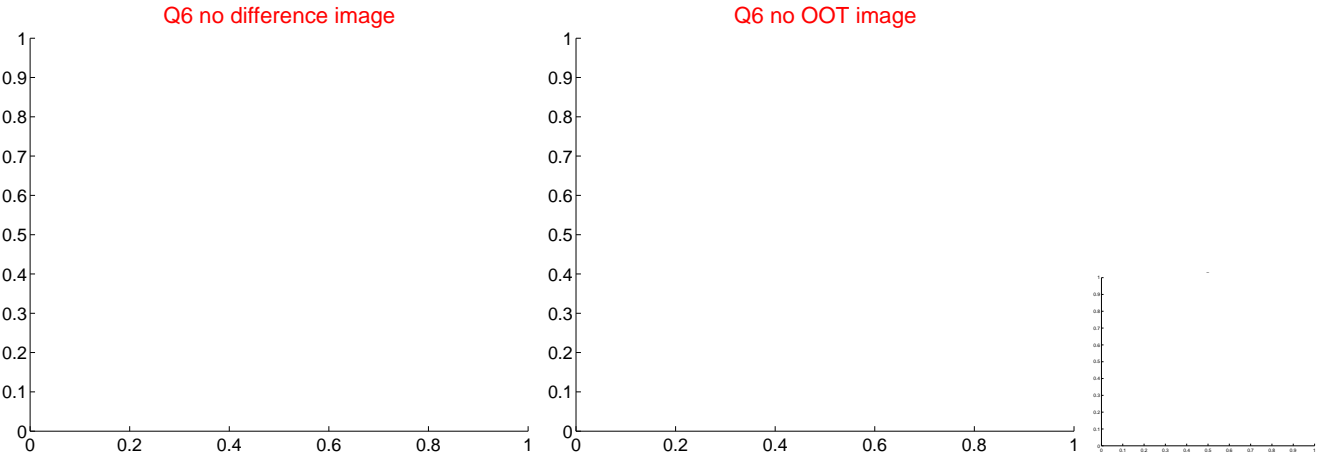
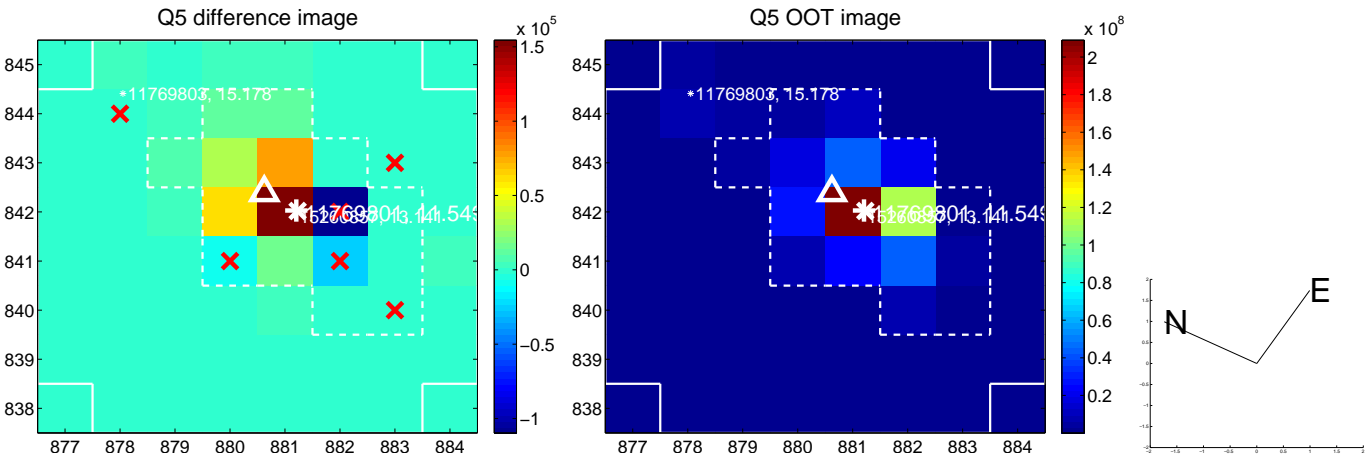


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

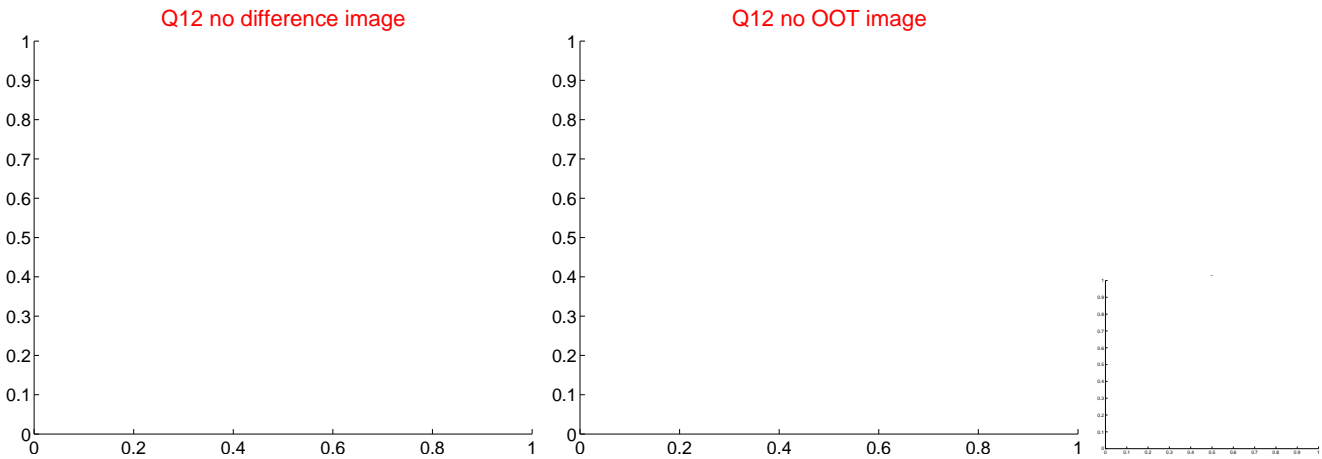
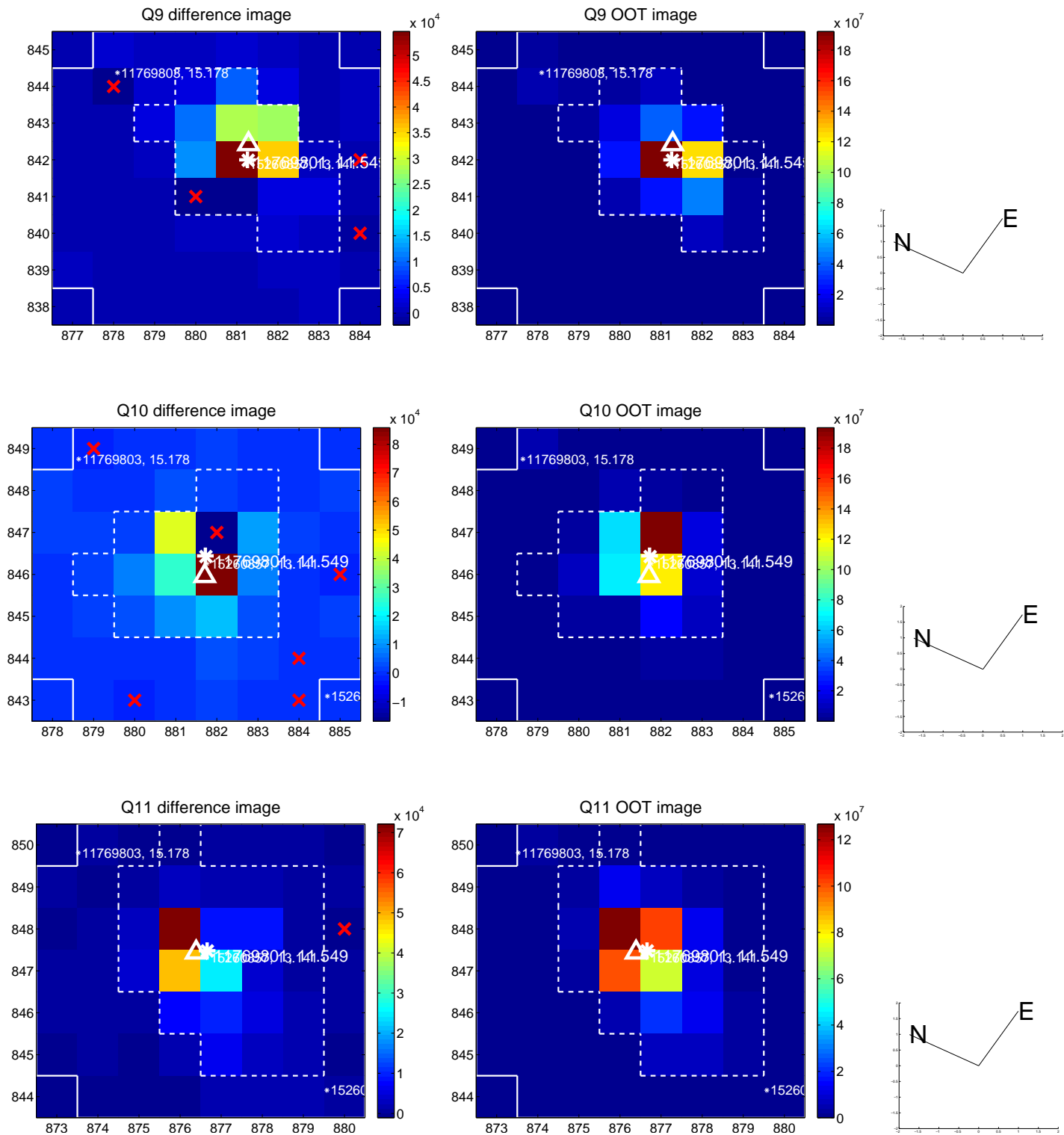
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



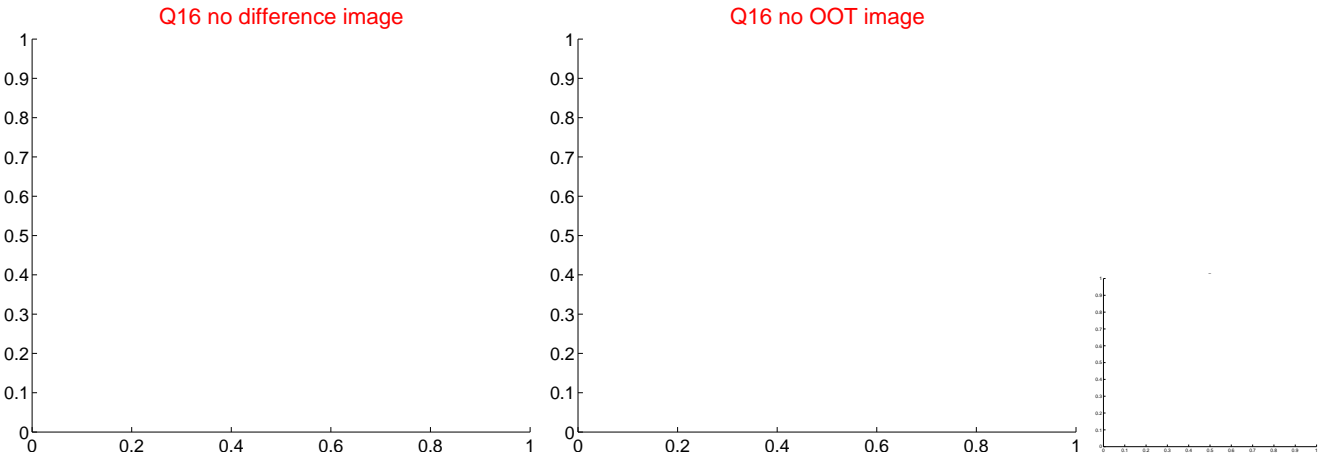
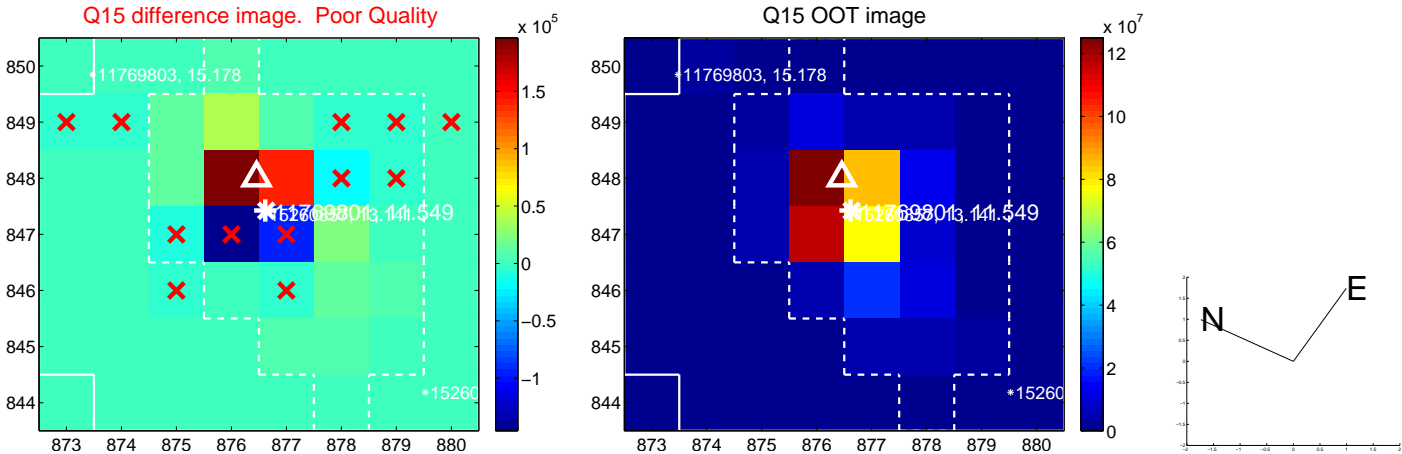
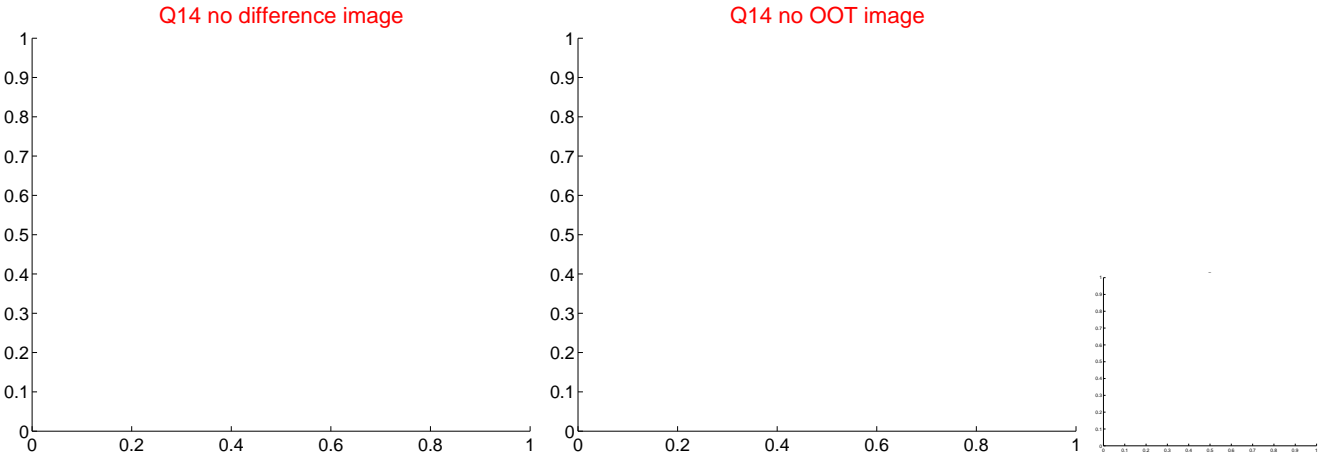
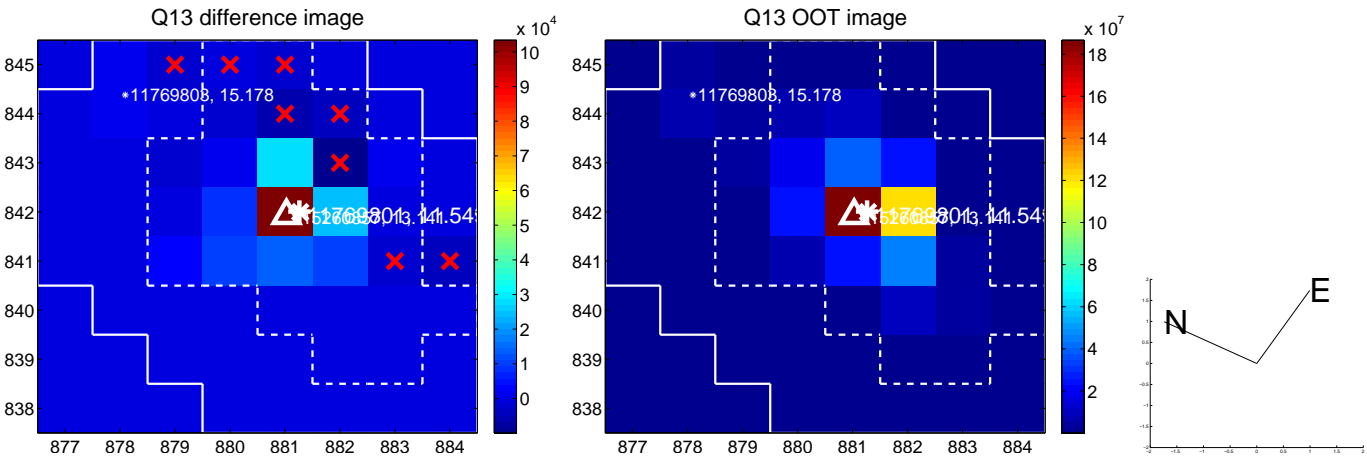
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



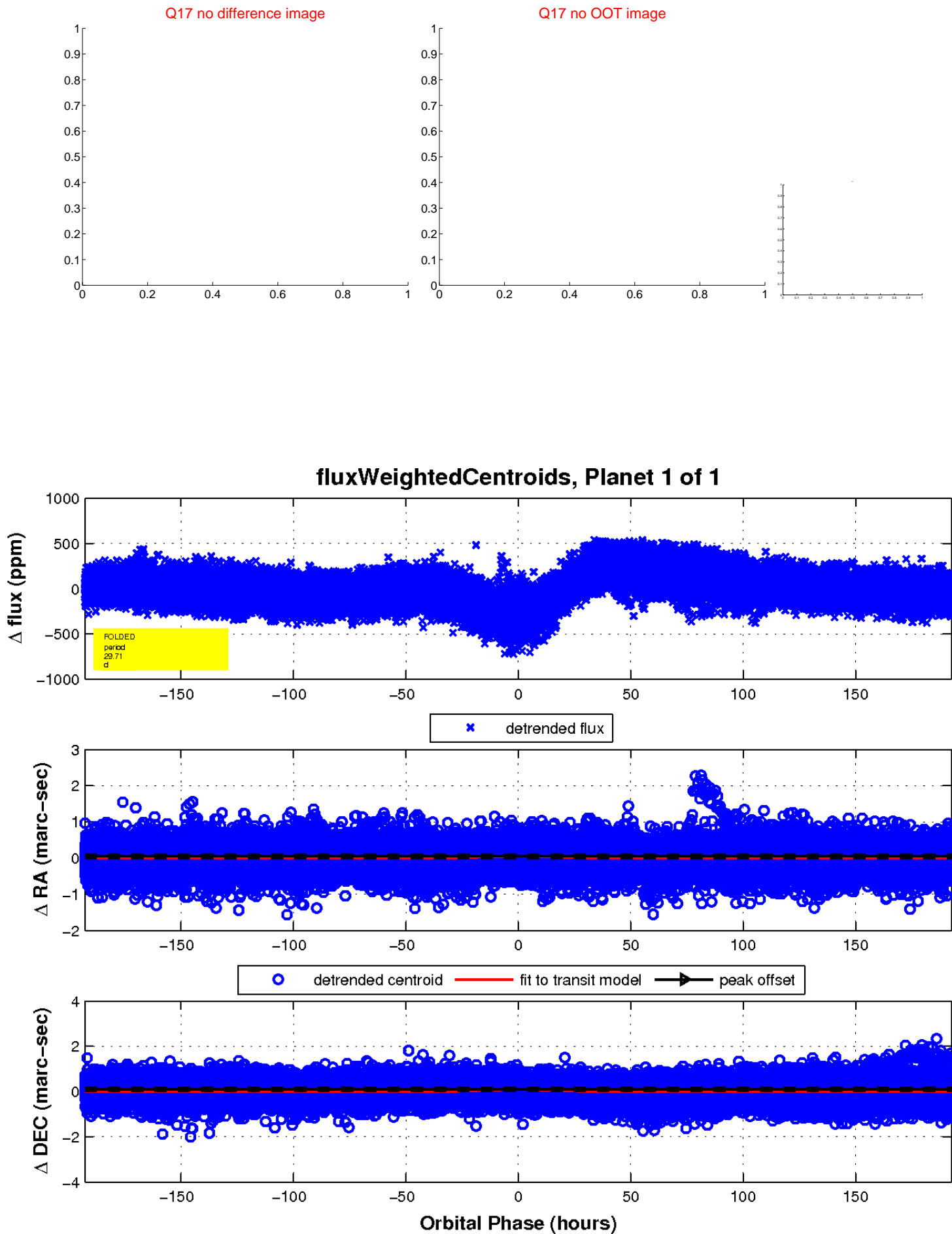
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UKIRT Image

Declination

