

KIC 011188249

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})
011188249-01	OBS	2765.01	2.755010	133.435375	93.8	5.067	22.1	25.3	1.75	6257	3.39	2394.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011188249-01	OBS	FP	0.00	0	0	1	0	CENT_RESOLVED_OFFSET

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 011188249-01

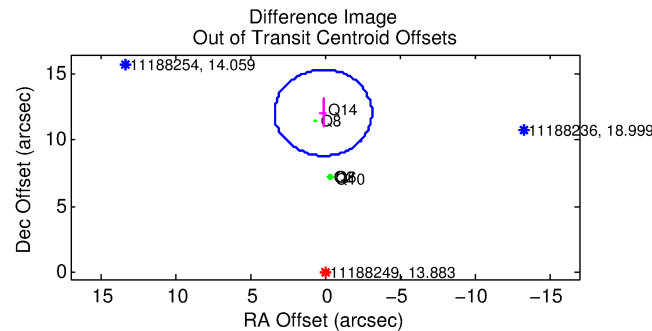
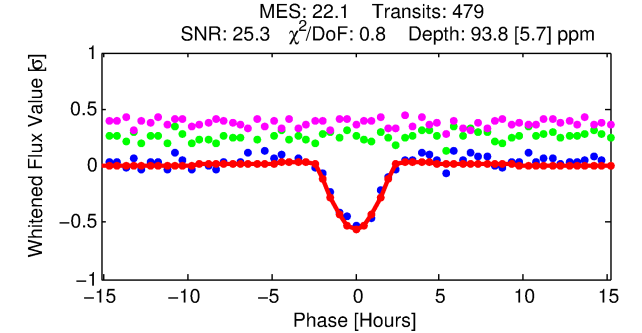
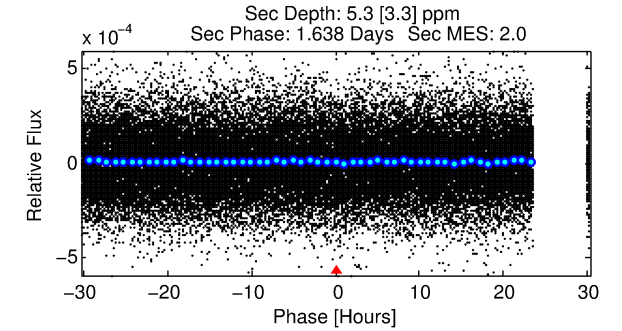
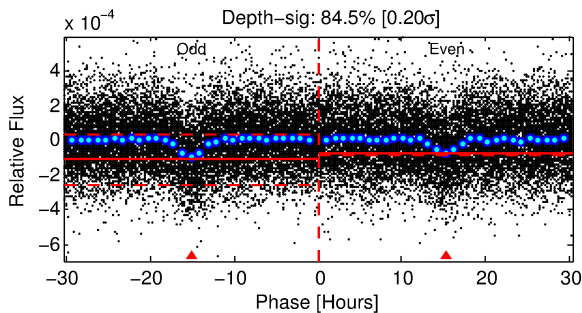
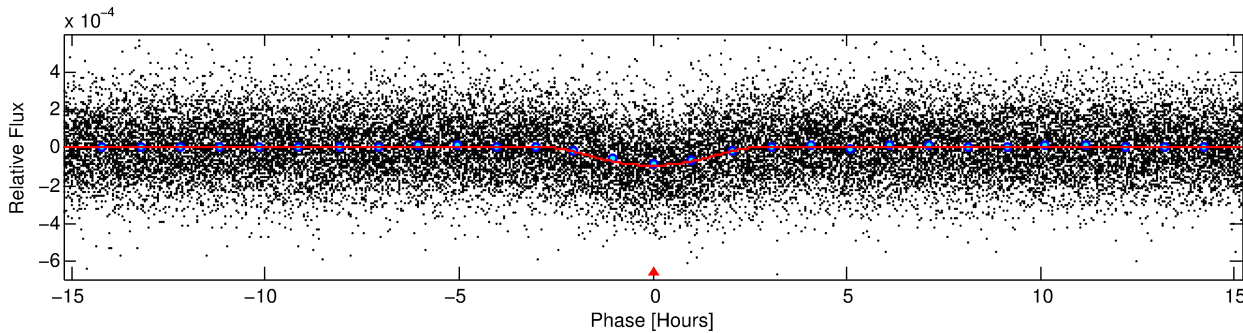
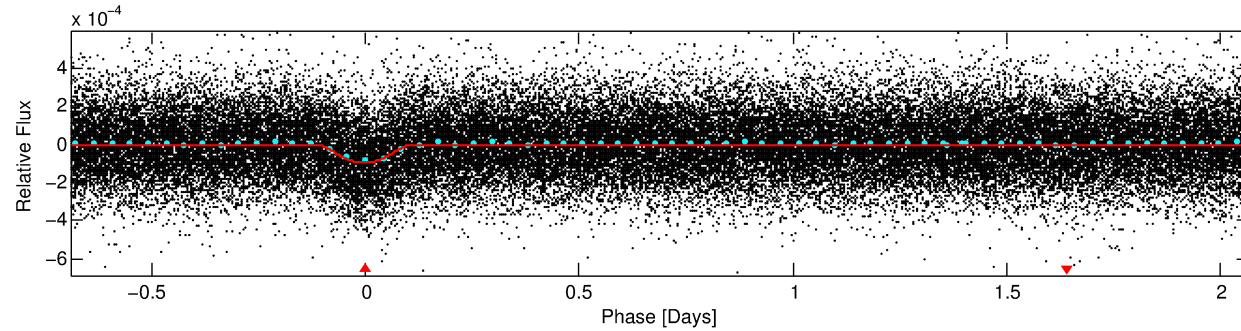
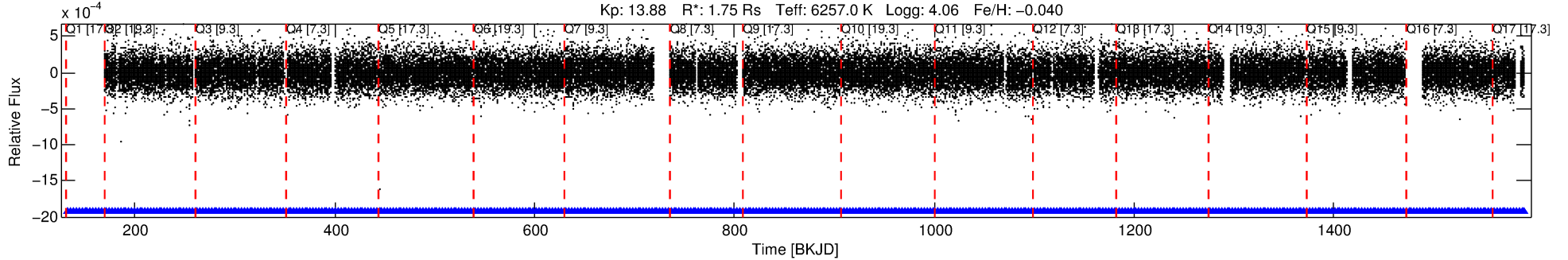
No Significant Match Found

DV One-Page Summary

KIC: 11188249 Candidate: 1 of 1 Period: 2.755 d

KOI: K02765.01 Corr: 0.824

Kp: 13.88 R*: 1.75 Rs Teff: 6257.0 K Logg: 4.06 Fe/H: -0.040



DV Fit Results:

Period = 2.75501 [0.00002] d
Epoch = 133.4354 [0.0042] BKJD
Rp/R* = 0.0178 [0.0232]
a/R* = 1.28 [0.16]
b = 1.00 [0.04]
Seff = 2394.54 [1299.19]
Teq = 1784 [242] K
Rp = 3.39 [4.59] Re
a = 0.0419 [0.0140] AU
Ag = 0.44 [1.21] [-0.46σ]
Teff = 2252 [1510] K [0.31σ]

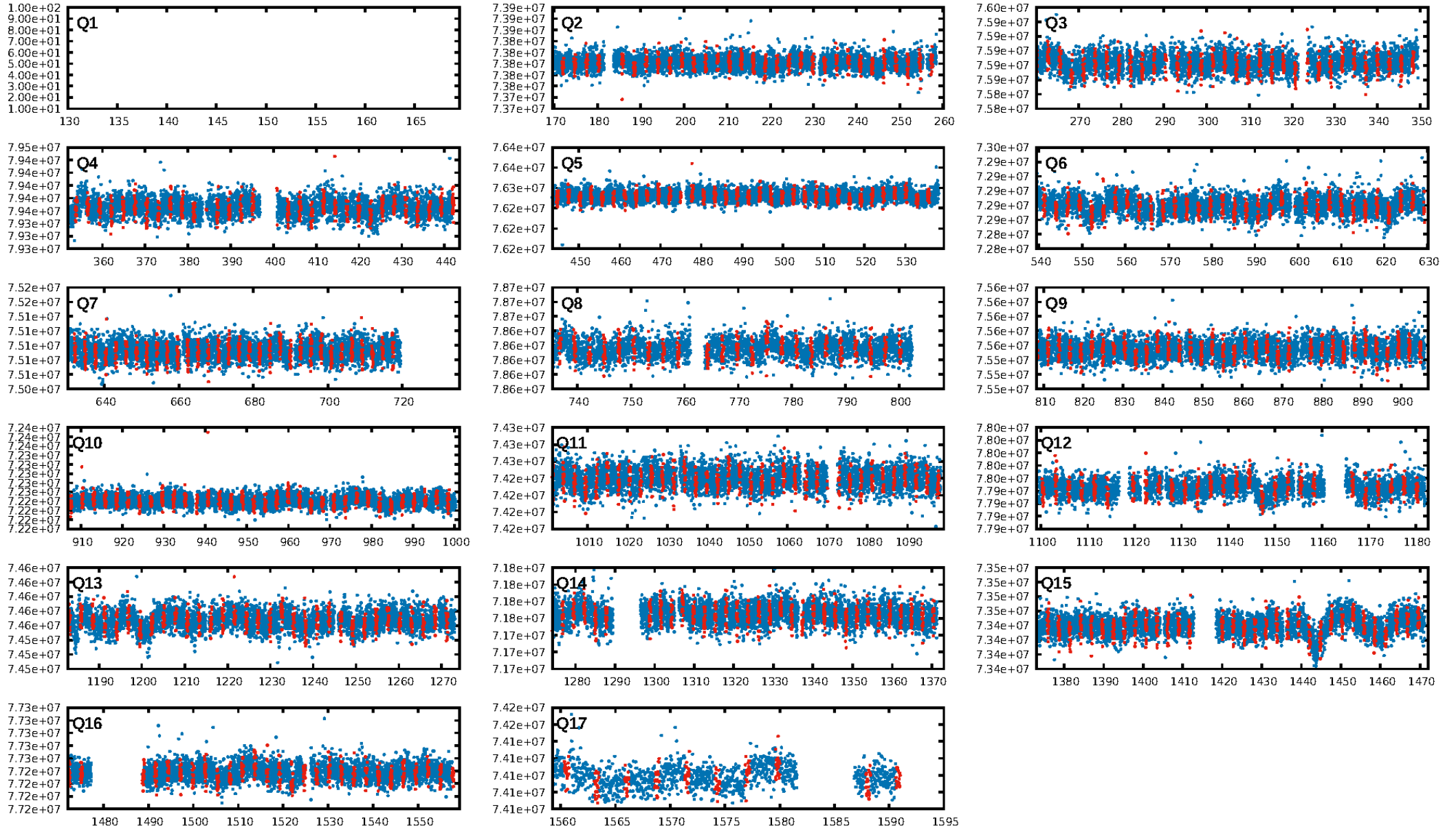
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.59e-101
RollingBand-fgt: 1.00 [469/469]
GhostDiagnostic-chr: -0.2935
Centroid-sig: 0.0%
Centroid-so: 49.115 arcsec [100.42σ]
OotOffset-rm: 12.081 arcsec [11.14σ]
KicOffset-rm: 12.050 arcsec [9.09σ]
OotOffset-st: 4/0/1/0 [5]
KicOffset-st: 4/0/1/0 [5]
DiffImageQuality-fgm: 1.00 [5/5]
DiffImageOverlap-fno: 1.00 [16/16]

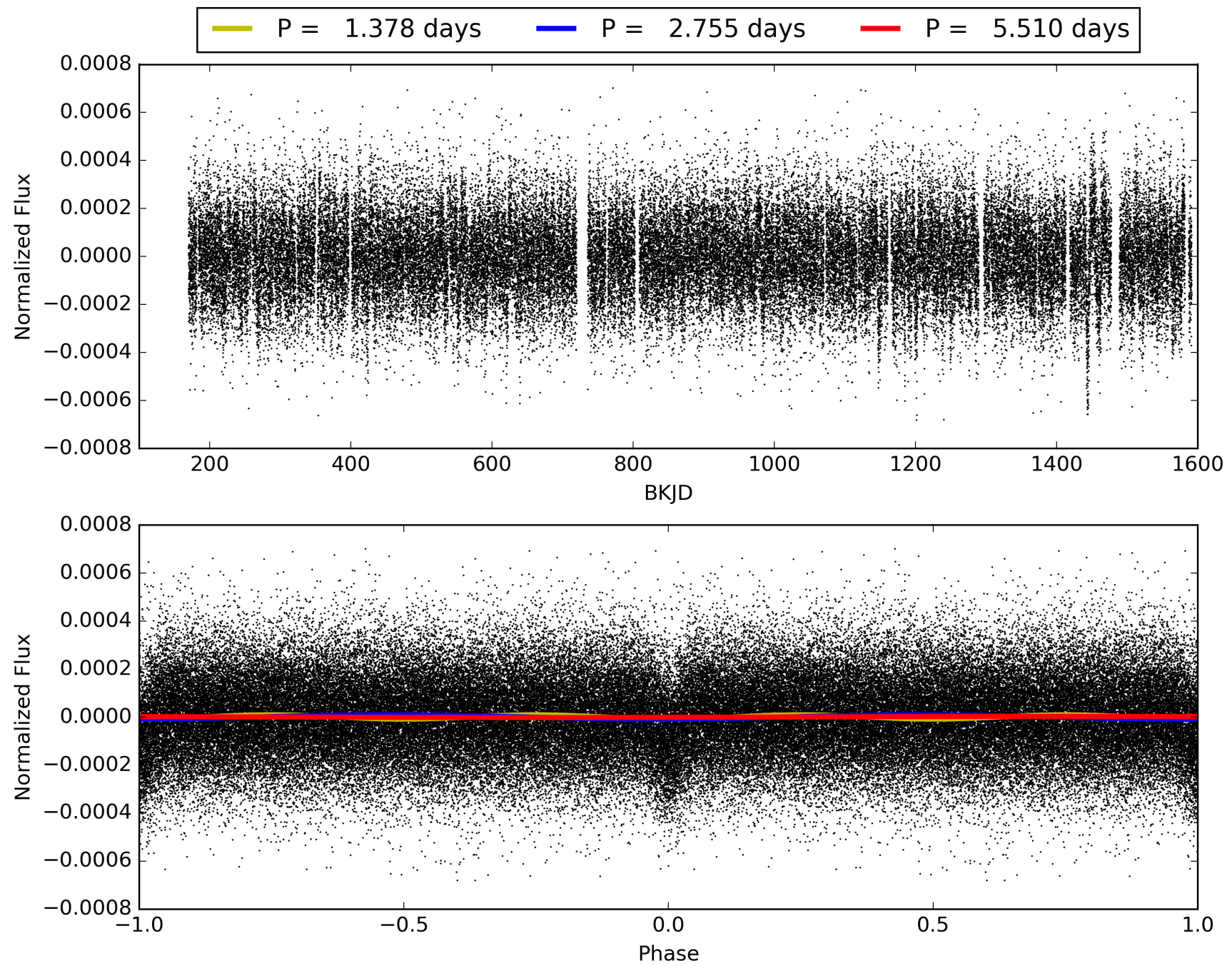
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:44:26 Z

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

TCE 011188249-01, PDC Light Curves

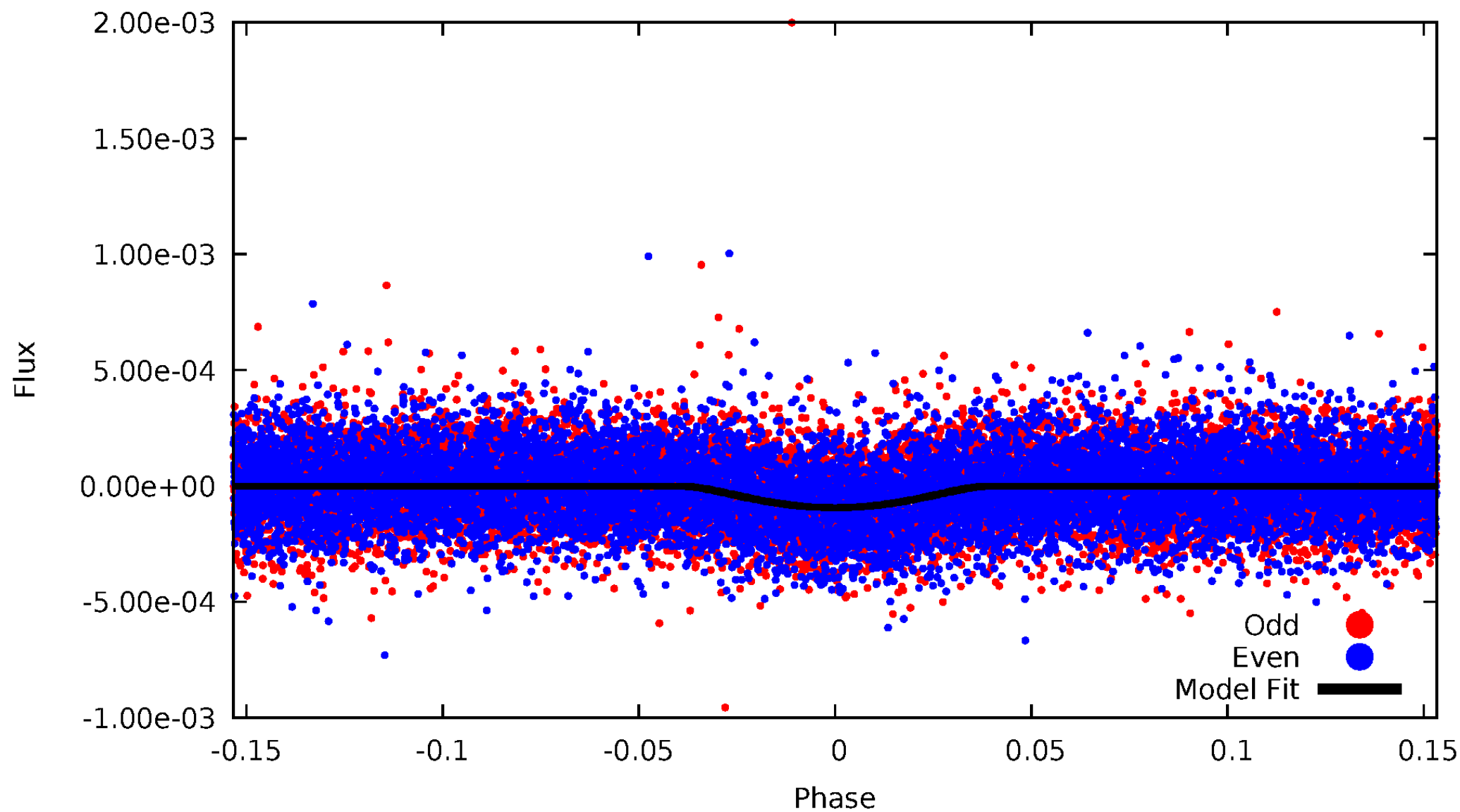


TCE 011188249-01



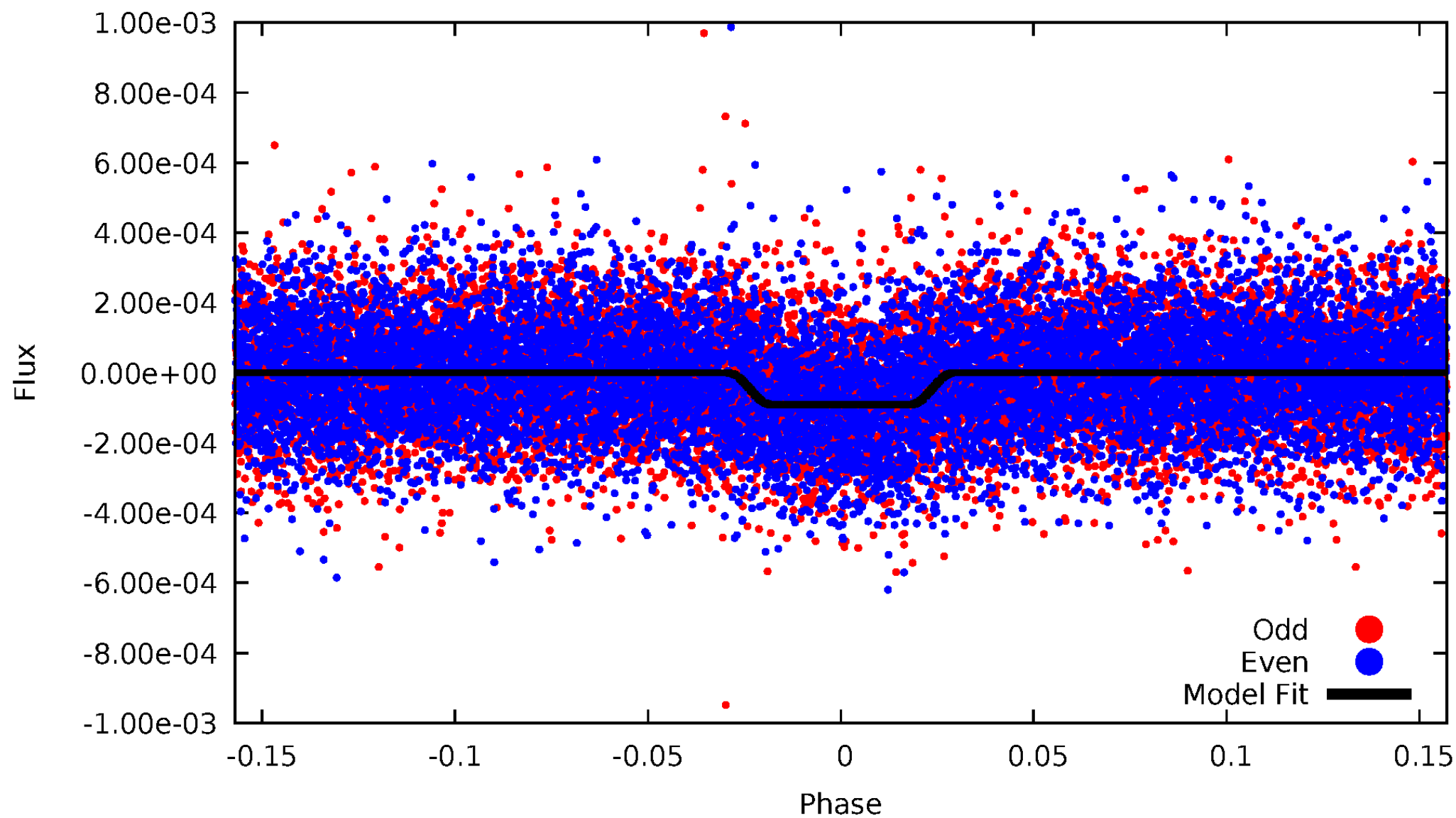
DV Odd/Even

TCE 011188249-01



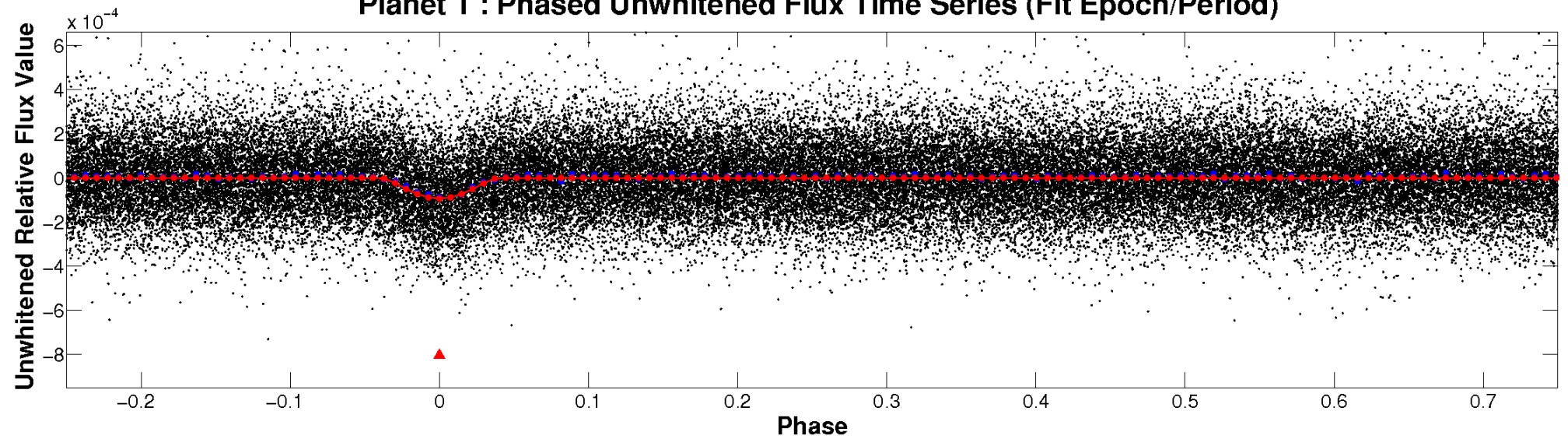
ALT Odd/Even

TCE 011188249-01

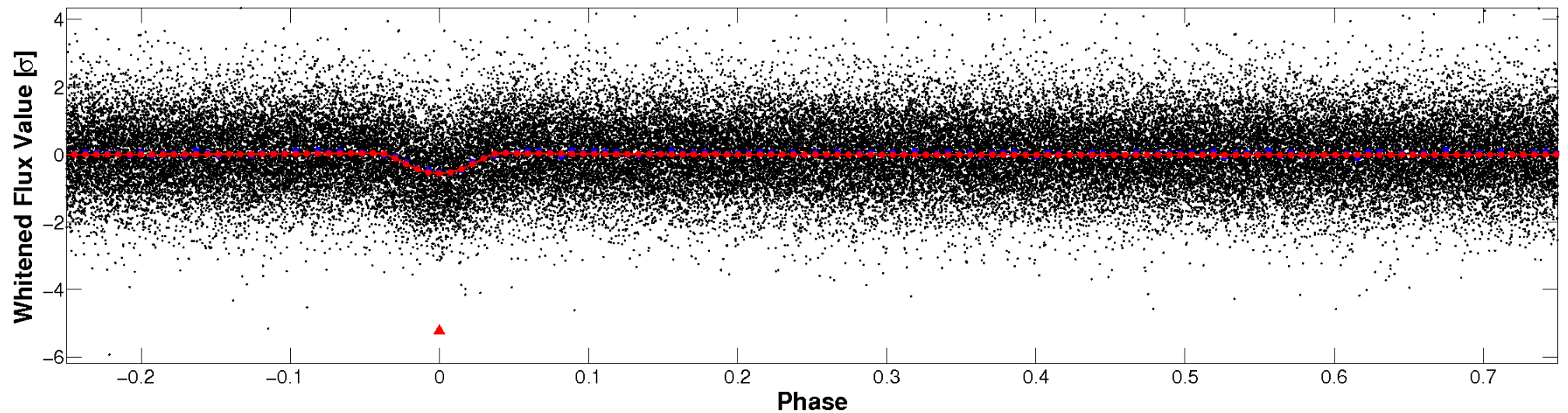


Non-Whitened Vs. Whitened Light Curve

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

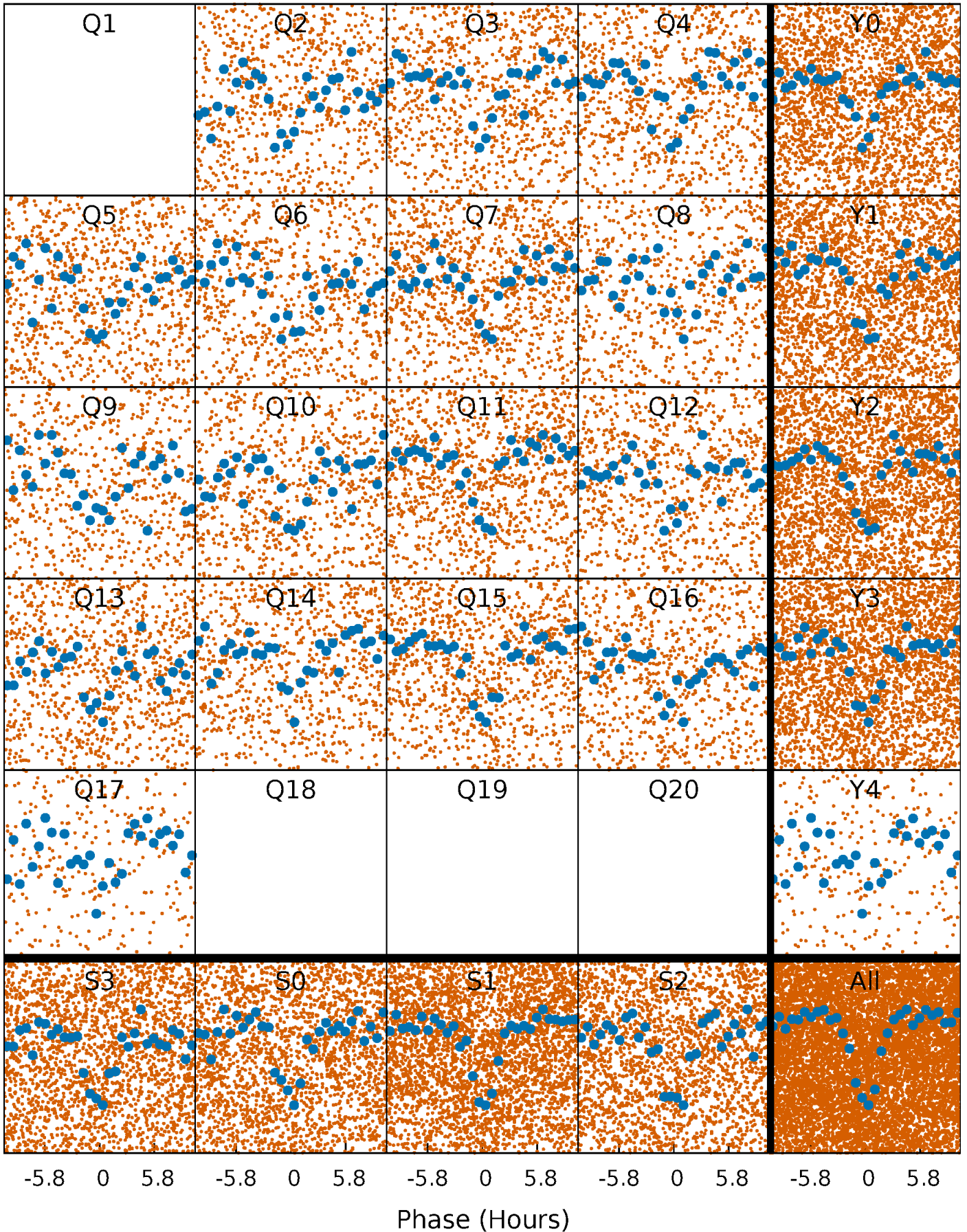


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



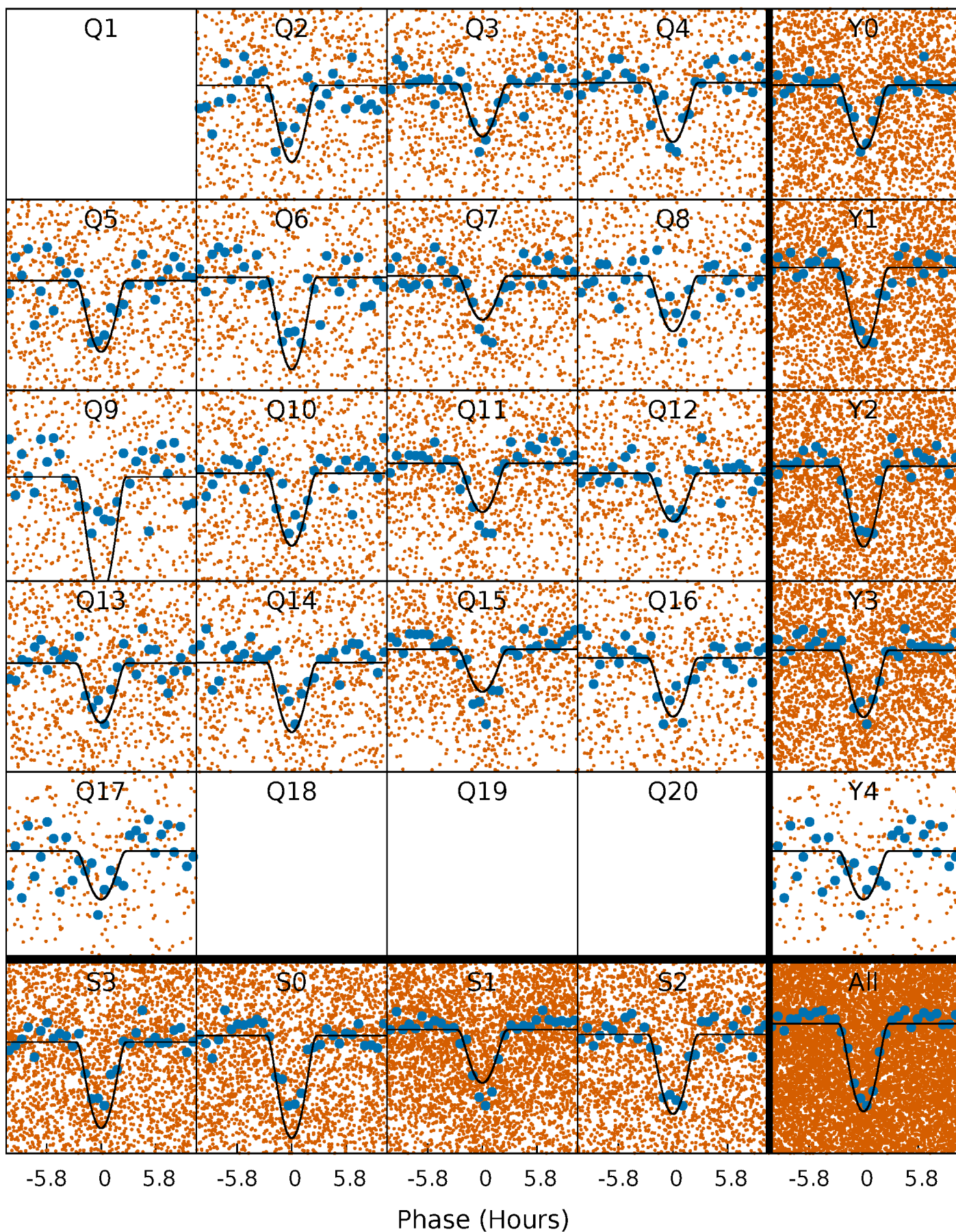
PDC Quarter-Phased Transit Curves

TCE 011188249-01 P= 2.755010 Days $T_0=133.435375$ (BKJD)



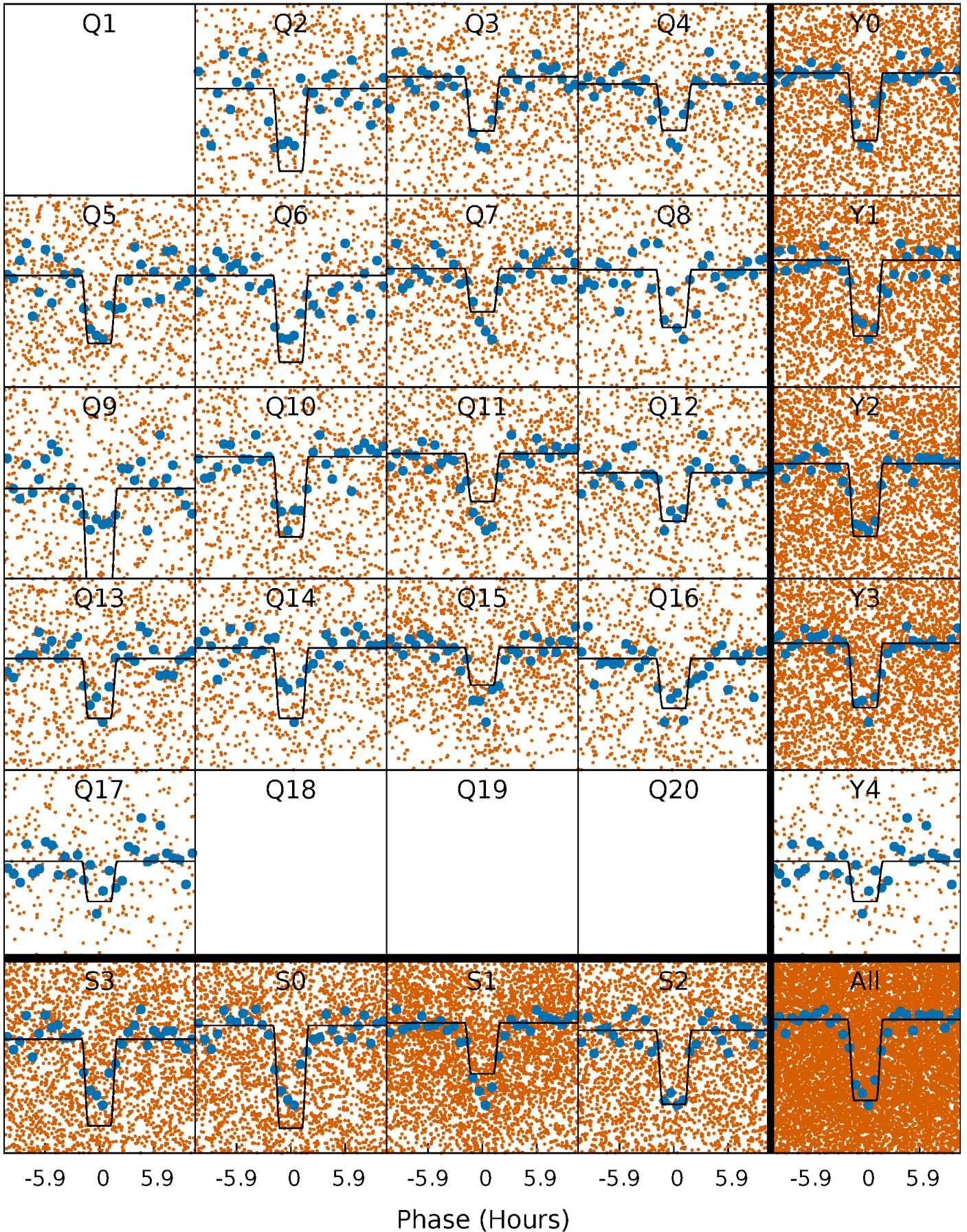
DV Quarter-Phased Transit Curves

TCE 011188249-01 P= 2.755010 Days $T_0=133.435375$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

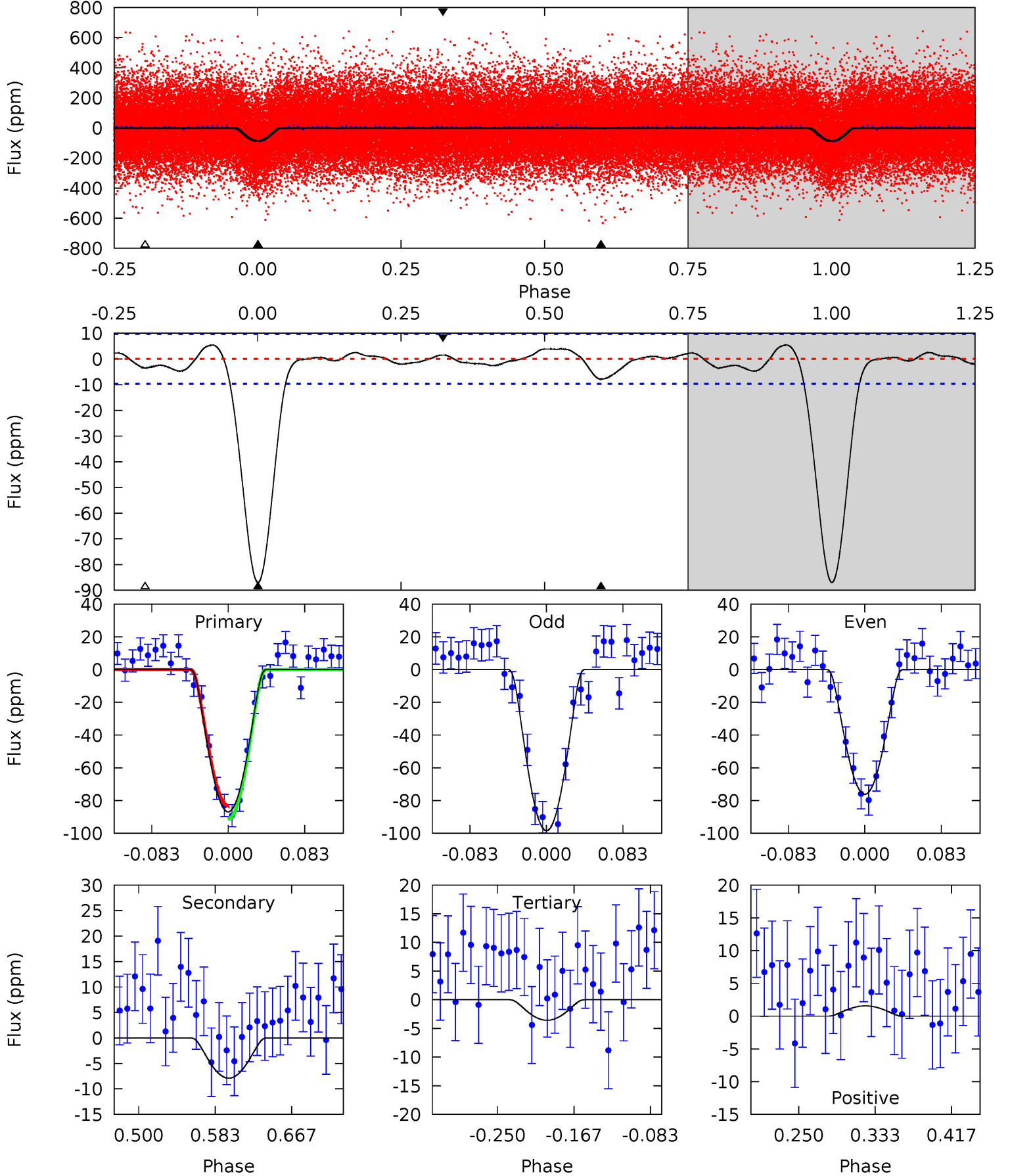
TCE 011188249-01 P= 2.754998 Days $T_0=133.440761$ (BKJD)



DV Model-Shift Uniqueness Test

011188249-01, P = 2.755010 Days, E = 133.435375 Days

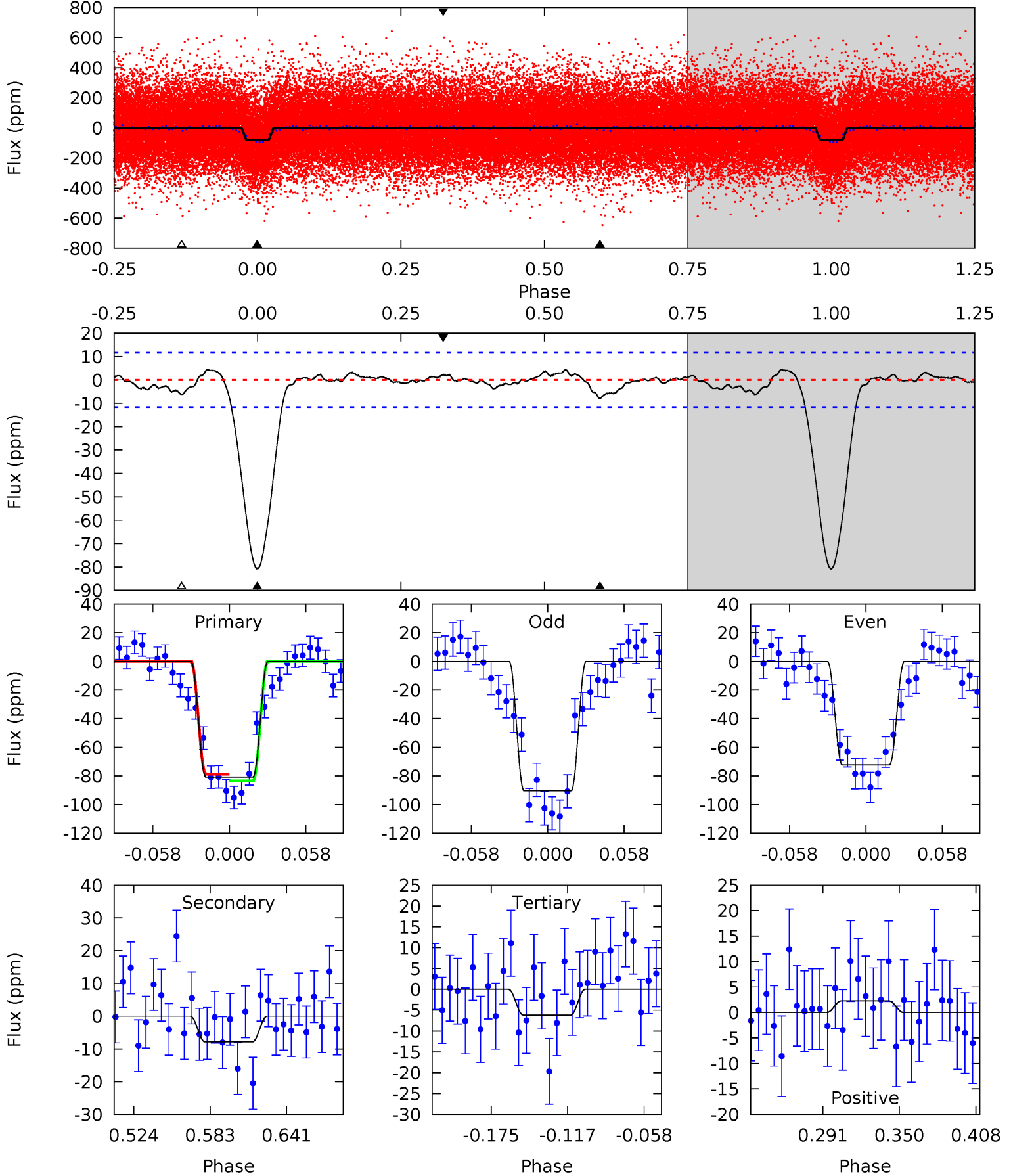
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
41.4	3.75	1.70	0.74	4.60	1.73	0.97	39.7	40.7	2.05	3.01	5.30	0.93	0.06	1.97



Alt Model-Shift Uniqueness Test

011188249-01, P = 2.754998 Days, E = 133.440761 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.4	3.16	2.48	0.92	4.68	1.89	0.83	29.9	31.5	0.68	2.24	3.63	0.97	0.05	0.93



Stellar Parameters For KIC 011188249

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6257^{+199}_{-243}	$4.063^{+0.299}_{-0.161}$	$-0.040^{+0.250}_{-0.300}$	$1.748^{+0.480}_{-0.640}$	$1.291^{+0.172}_{-0.258}$	$0.340^{+0.692}_{-0.155}$
	+3%/-4%	+7%/-4%	+625%/-750%	+27%/-37%	+13%/-20%	+203%/-46%
Source	PHO54	PHO54	PHO54	DSEP		

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

Secondary Eclipse Parameters for KIC 011188249-01 / KOI 2765.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-8 ± 2	$4.25^{+4.04}_{-2.75}$	2461^{+216}_{-240}	2367^{+1510}_{-5008}	$0.393^{+2.940}_{-0.288}$
Alt.	-8 ± 2	$3.83^{+3.59}_{-2.72}$	2468^{+189}_{-243}	2593^{+1740}_{-5192}	$0.501^{+5.490}_{-0.369}$

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

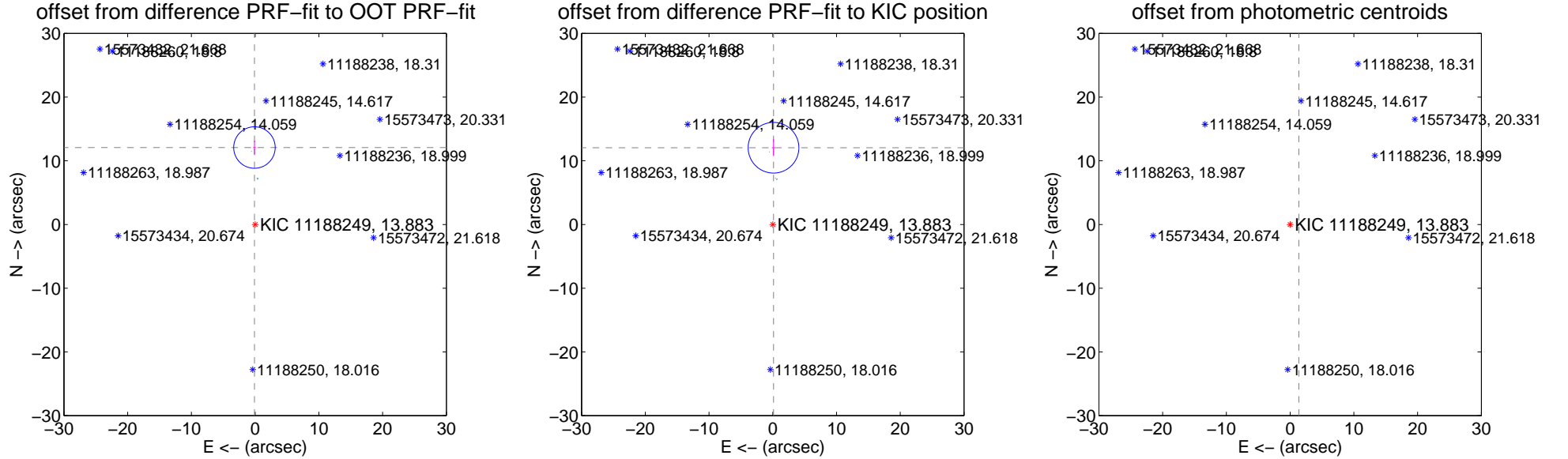
DV Centroid Data

Supplemental centroid analysis for 011188249-01. Kepler magnitude: 13.88. Transit SNR 25.29

There are 5 quarters with good PRF difference image offsets

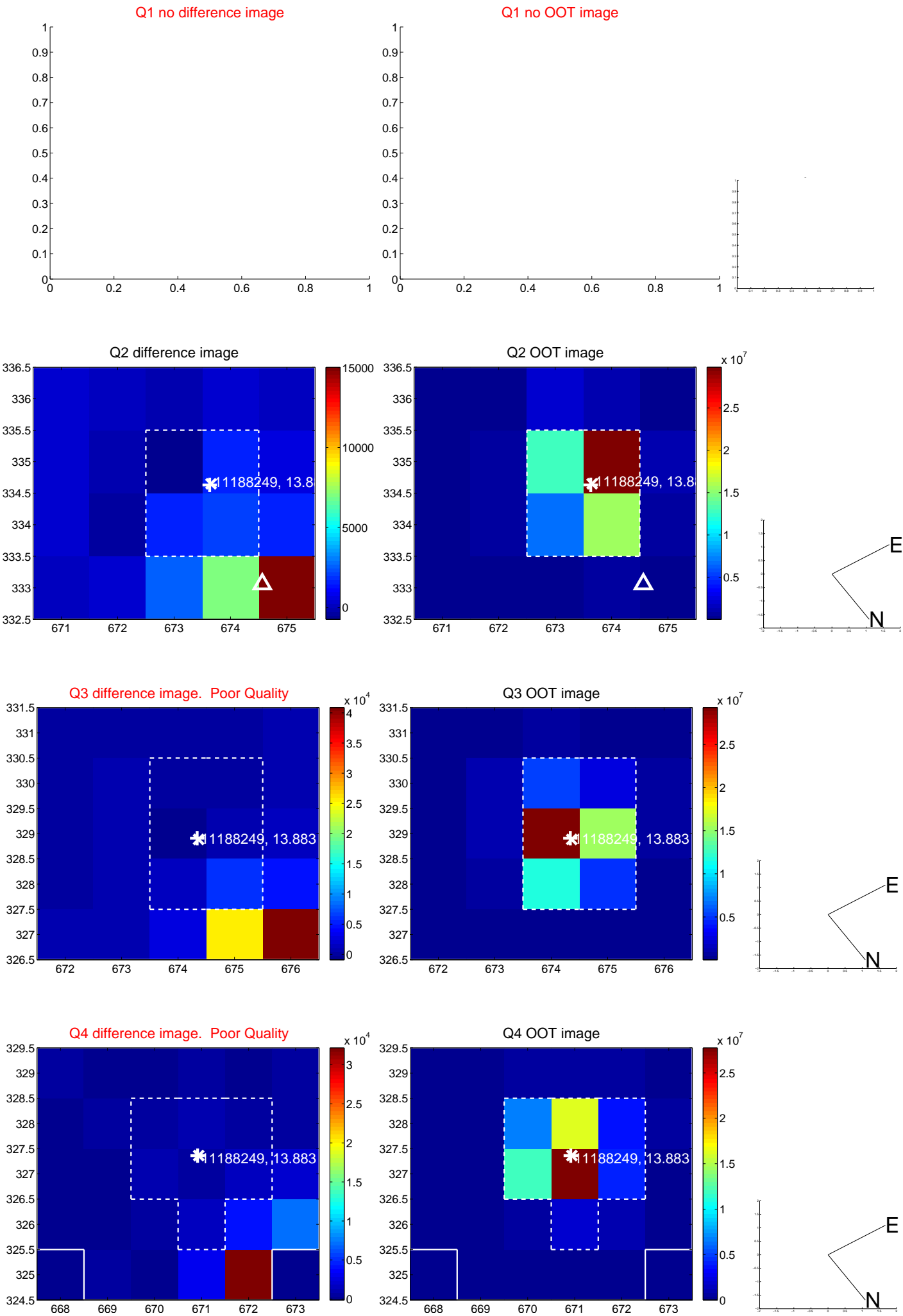
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	12.081 \pm 1.085	11.14	0.111 \pm 0.197	12.080 \pm 1.083
PRF-fit source offset from KIC position	12.050 \pm 1.326	9.09	-0.114 \pm 0.243	12.050 \pm 1.328
photometric centroid source offset	49.11 \pm 0.49	100.42	-1.37 \pm 0.42	49.10 \pm 0.49

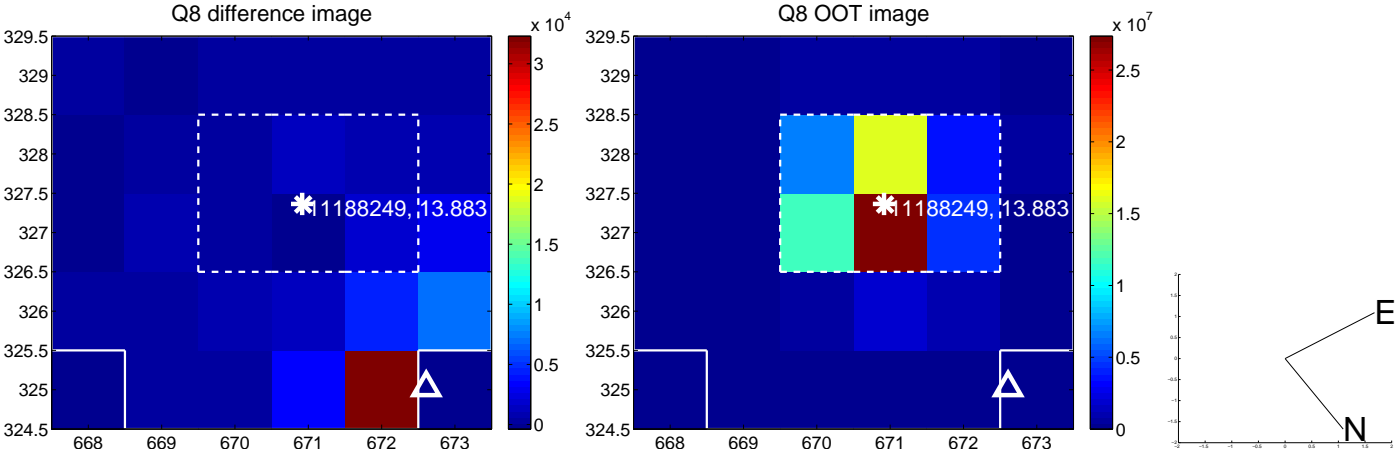
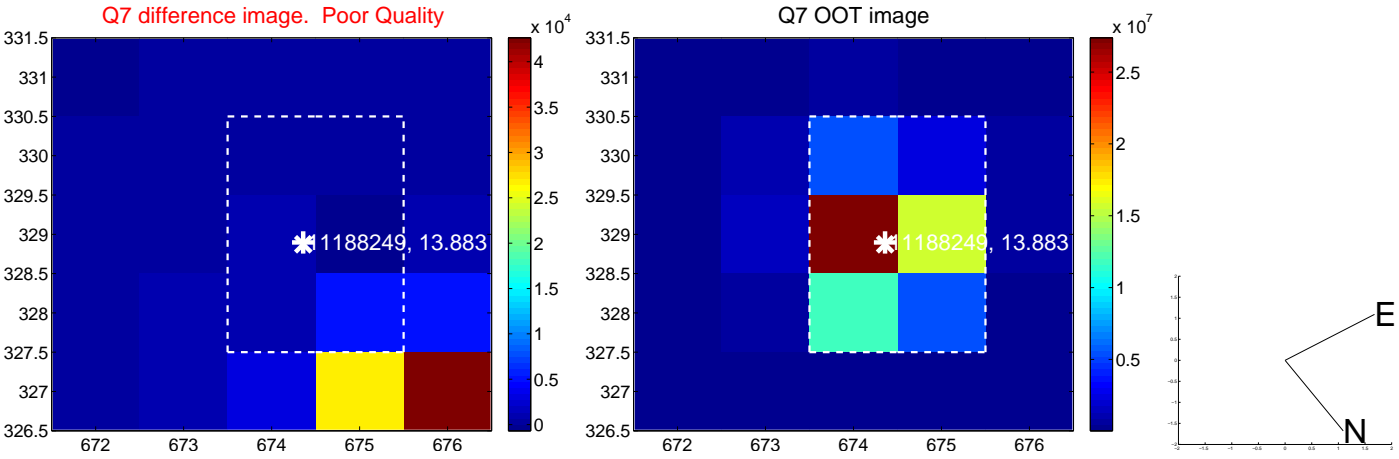
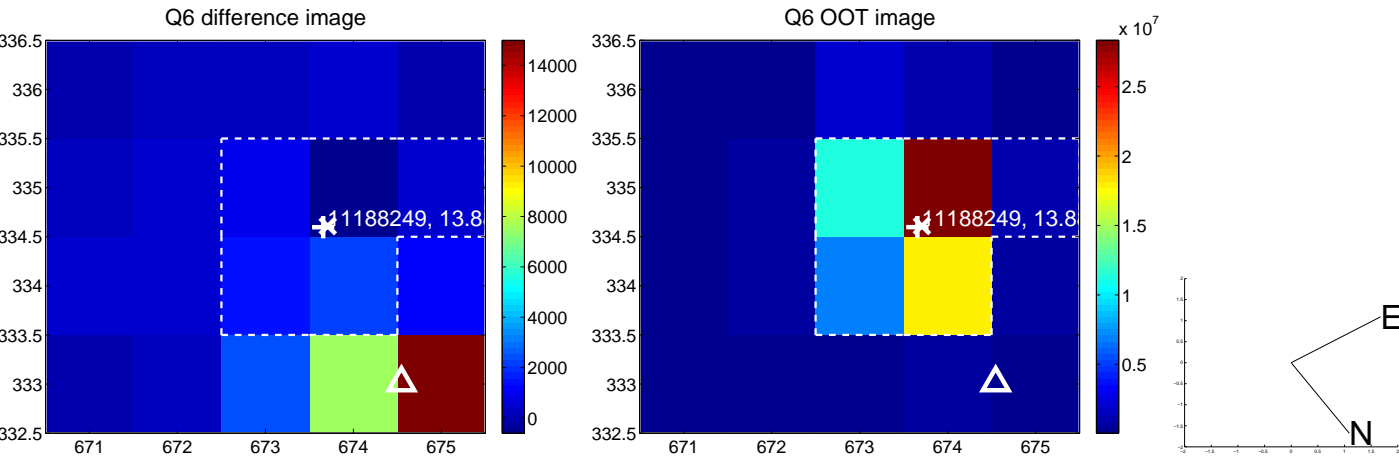
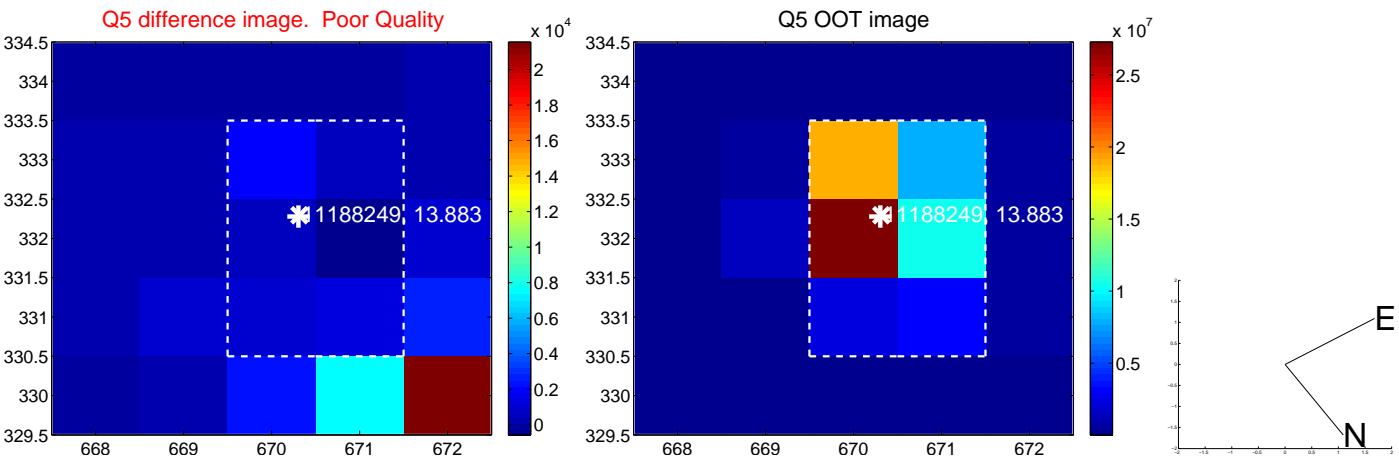


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

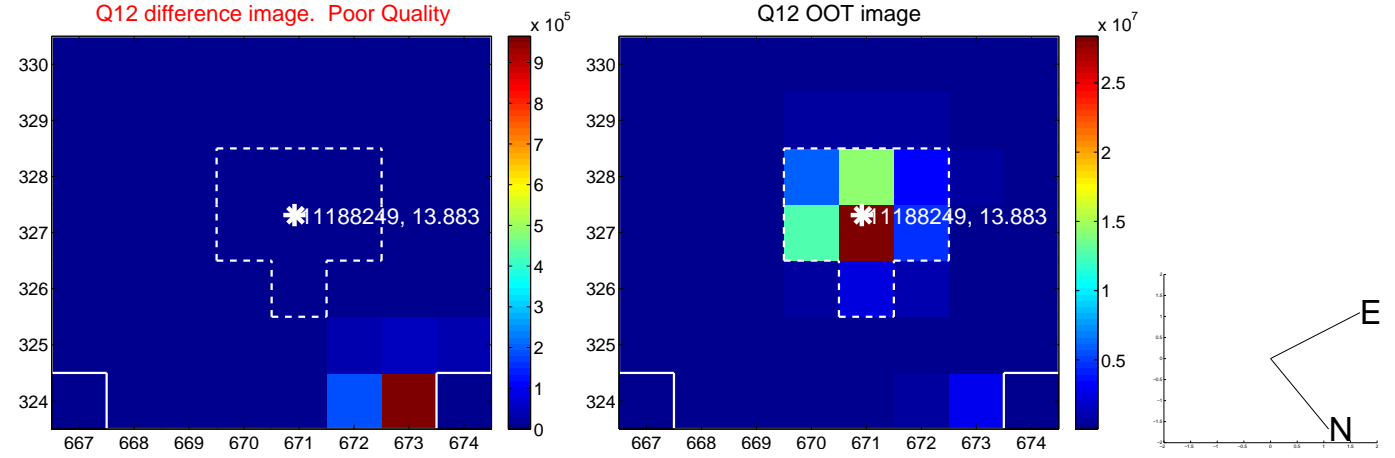
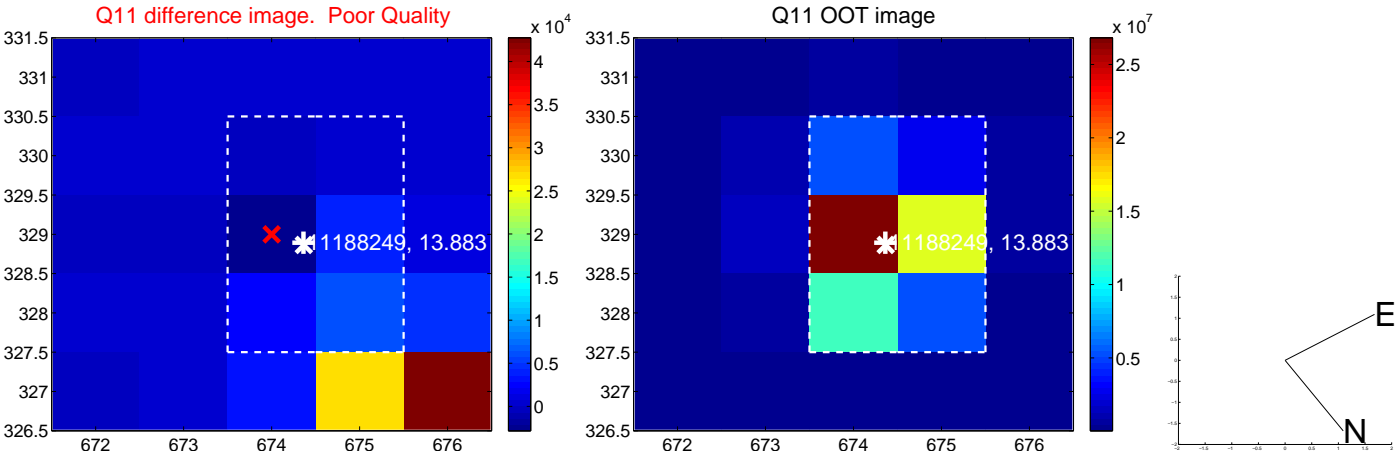
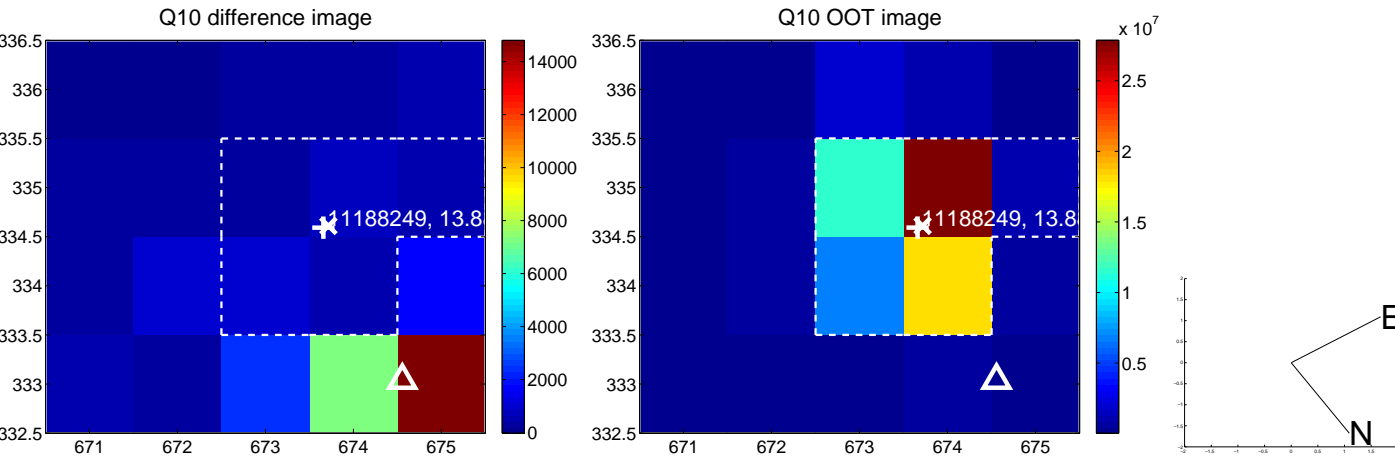
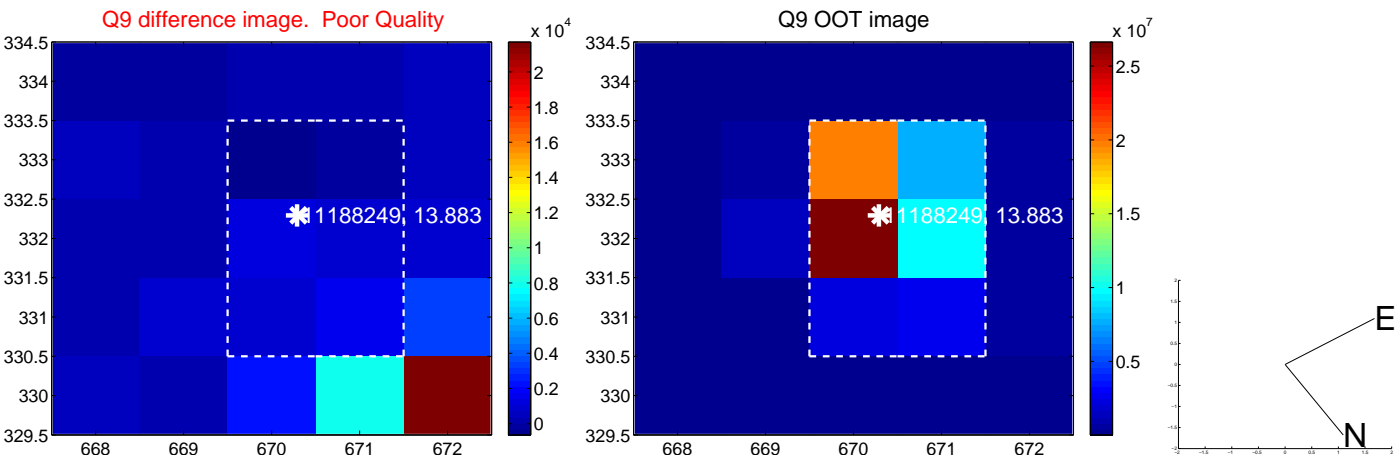
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



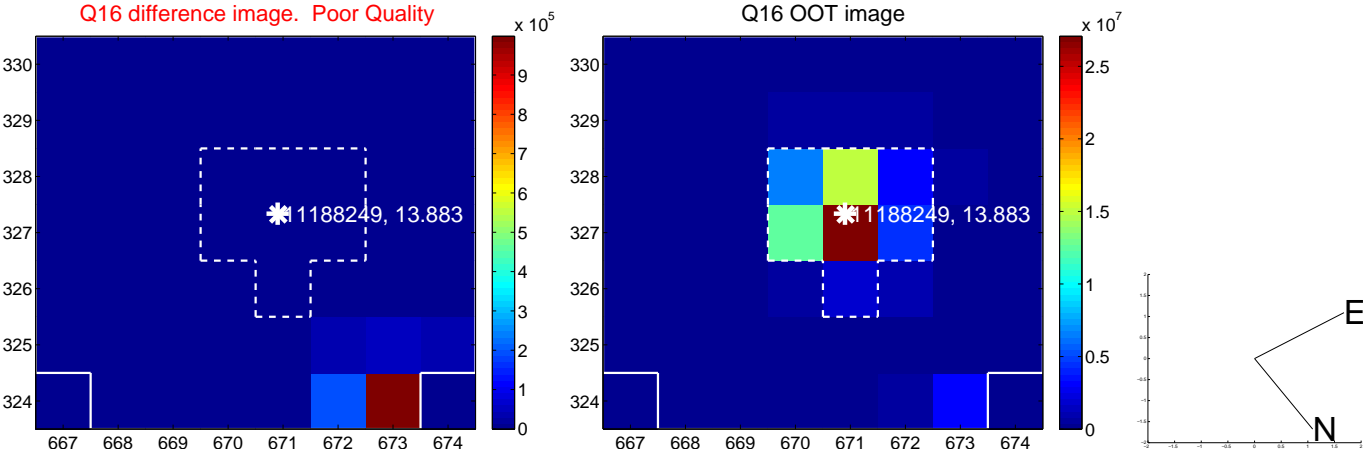
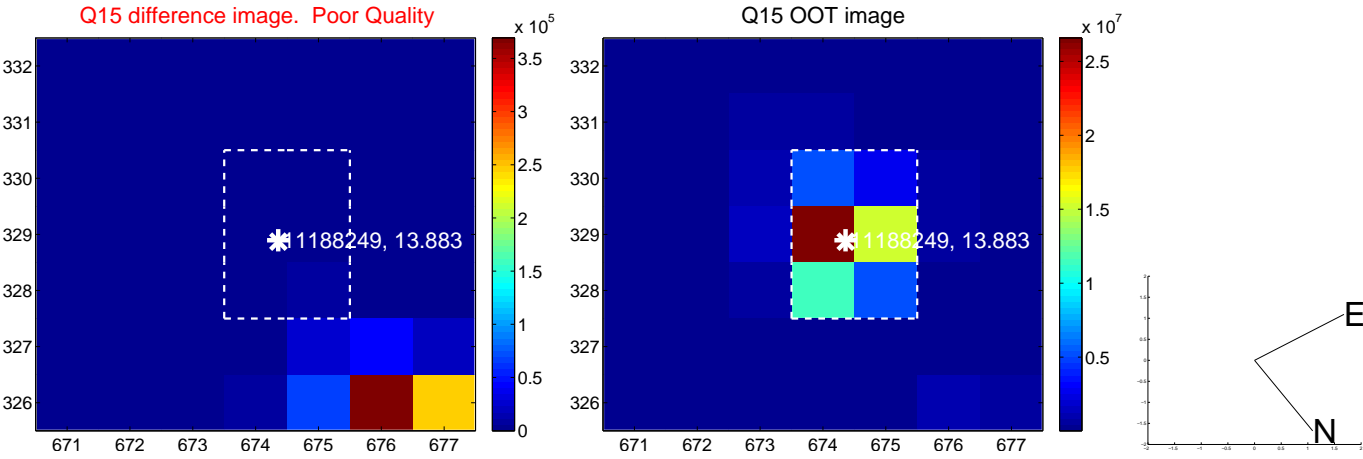
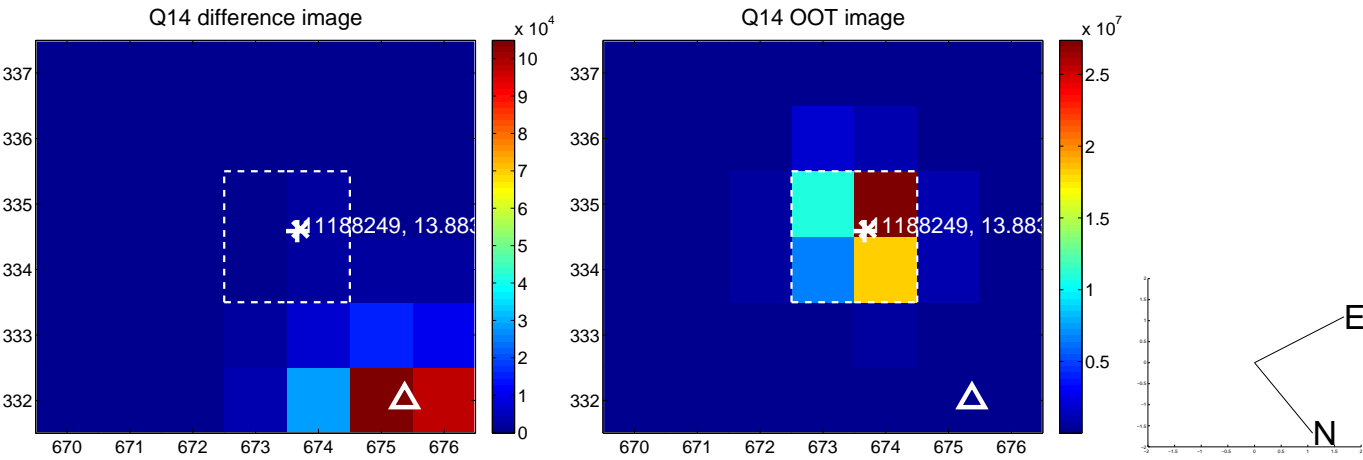
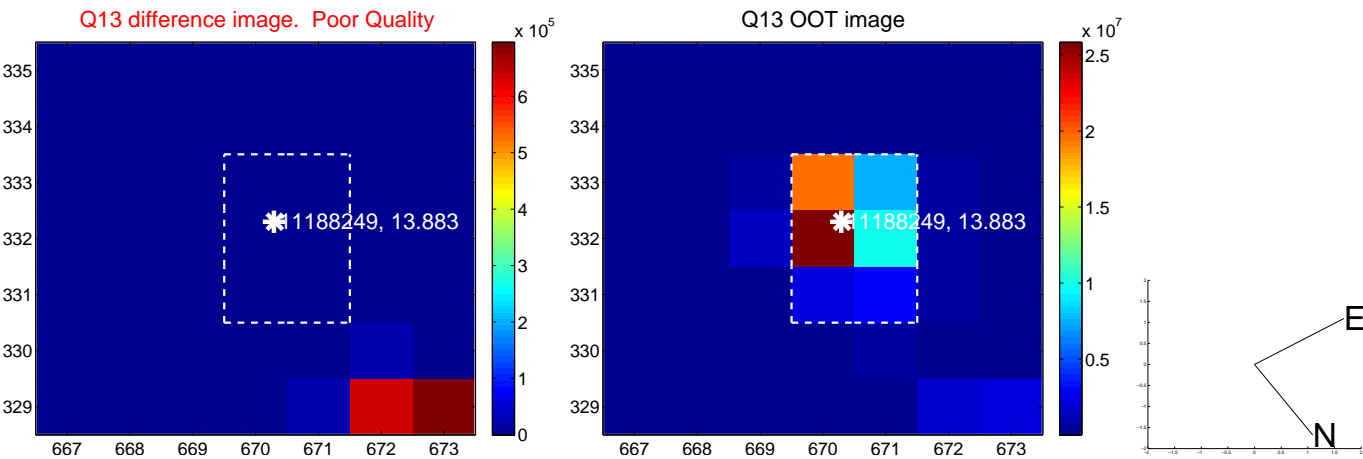
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



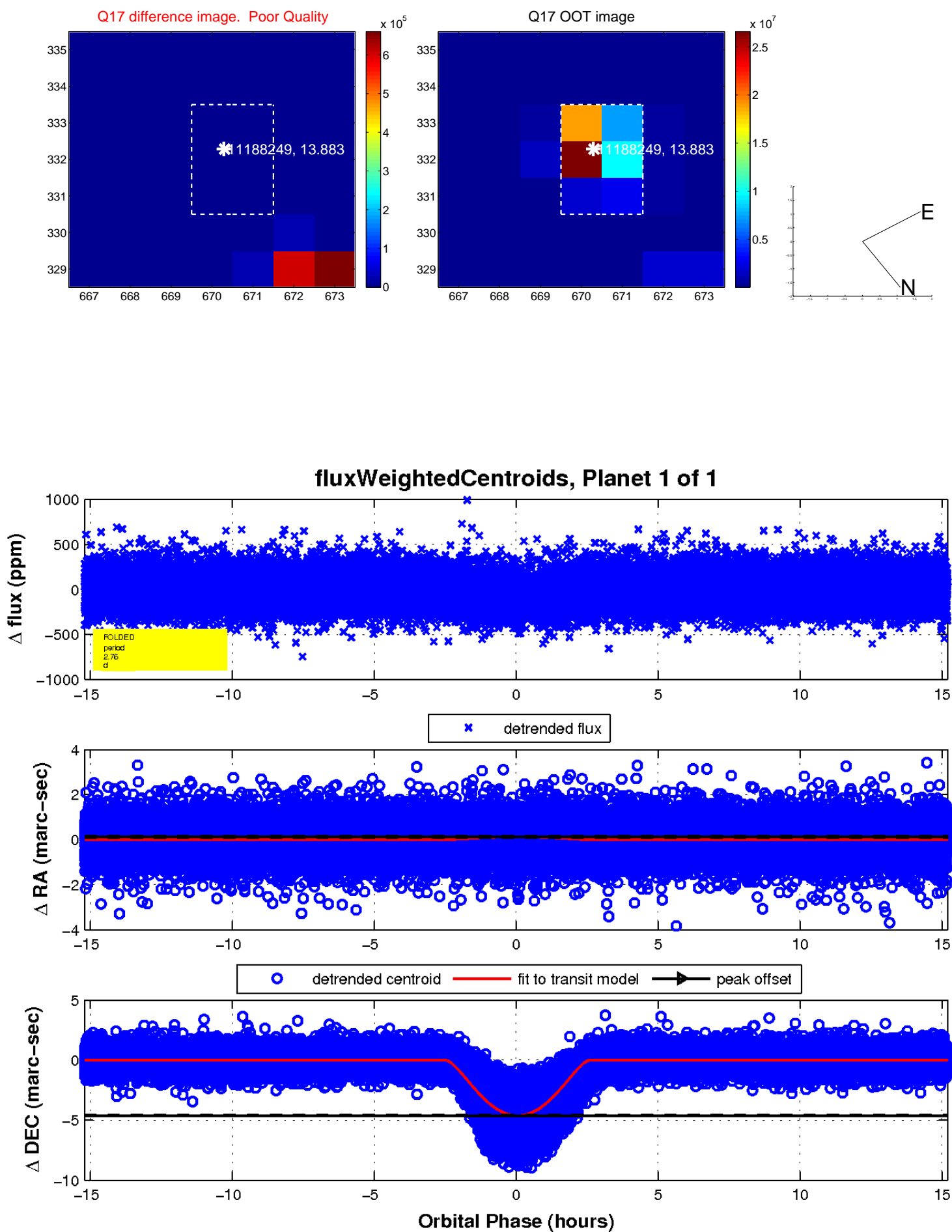
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

