

KIC 005965860

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})
005965860-01	OBS	No	0.884423	132.079459	53.9	2.459	7.5	7.8	0.91	5952	0.79	2860.25

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005965860-01	OBS	FP	0.00	1	0	1	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET—HALO_GHOST

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

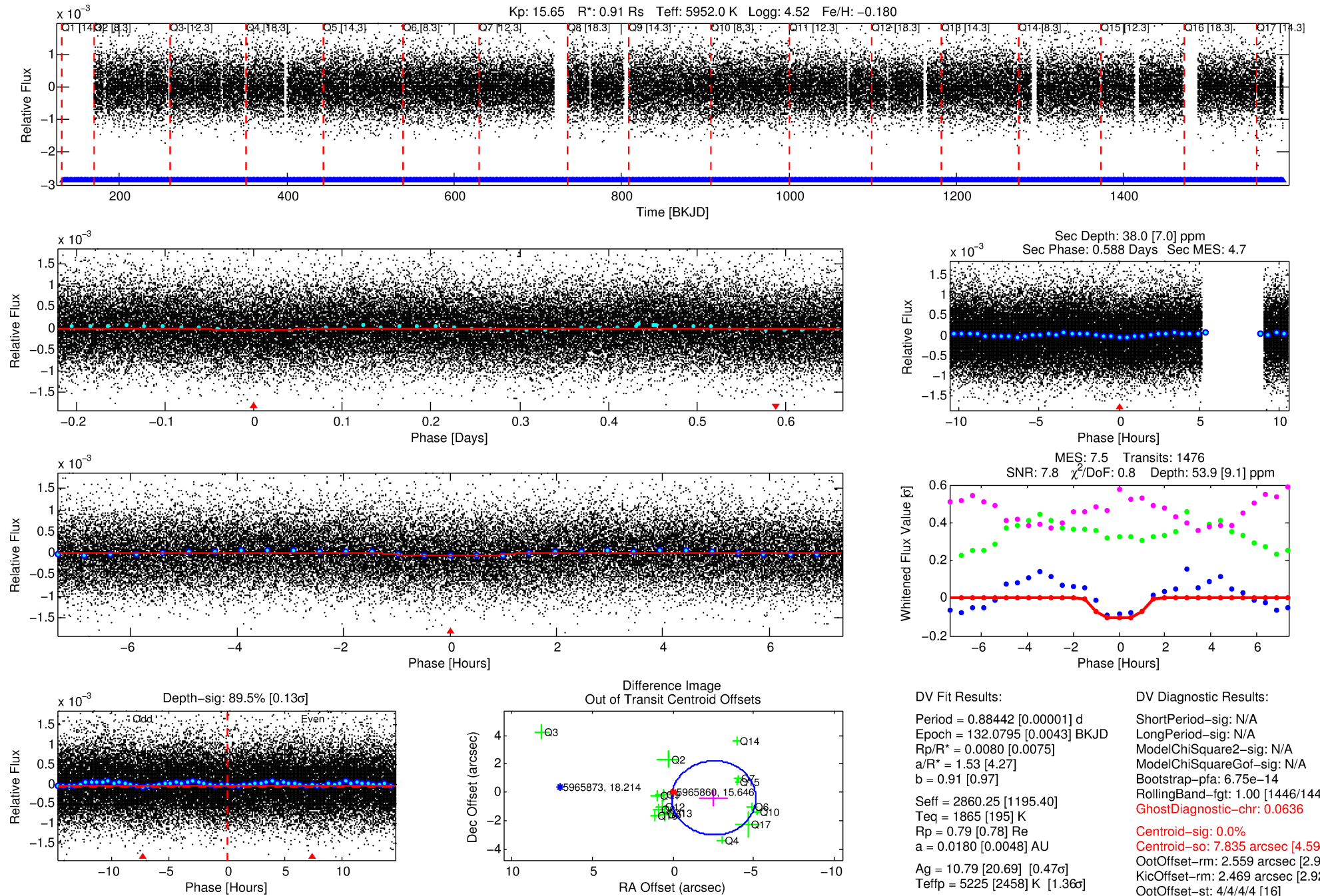
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005965860-01

No Significant Match Found

DV One-Page Summary

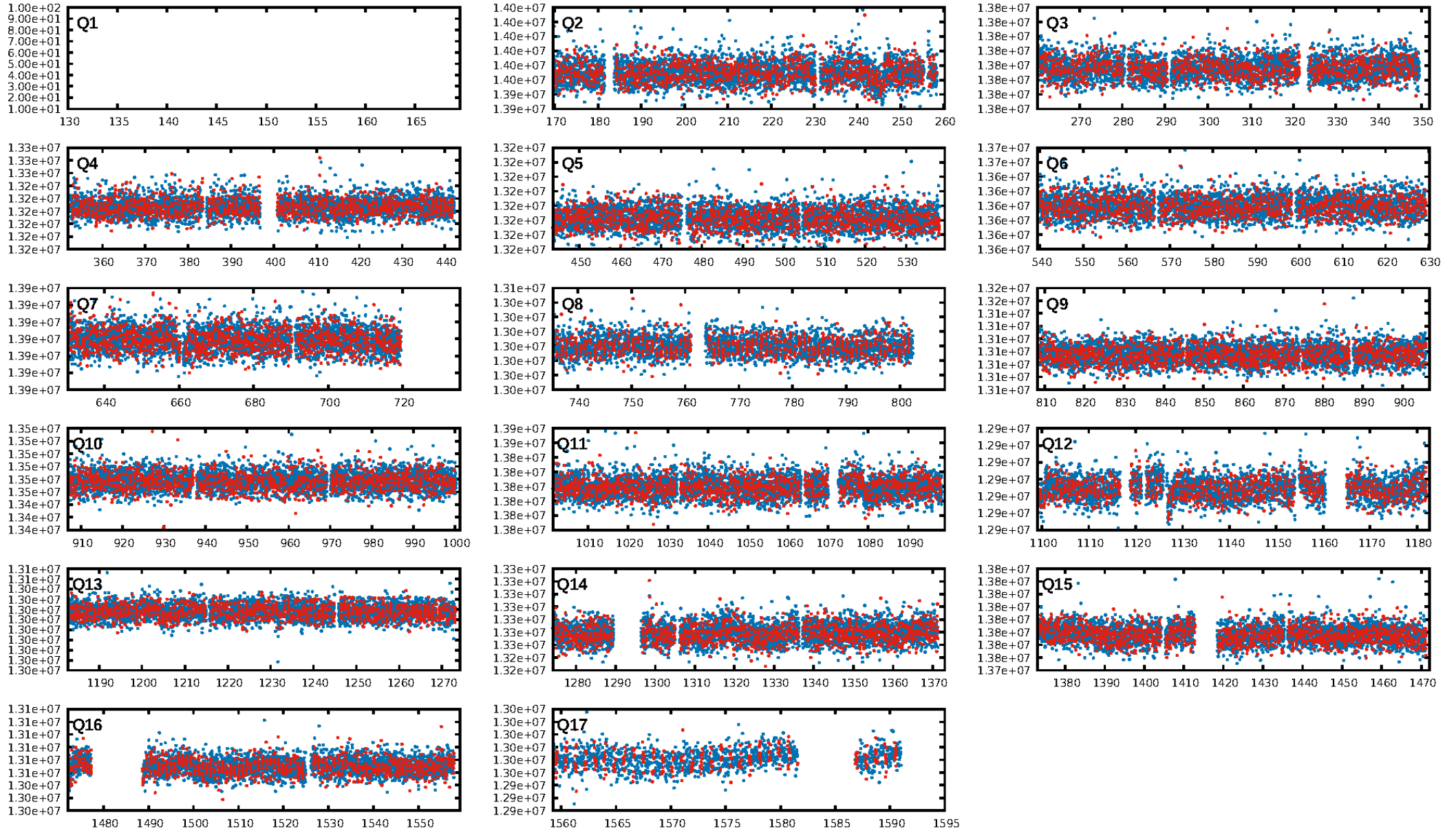
KIC: 5965860 Candidate: 1 of 1 Period: 0.884 d



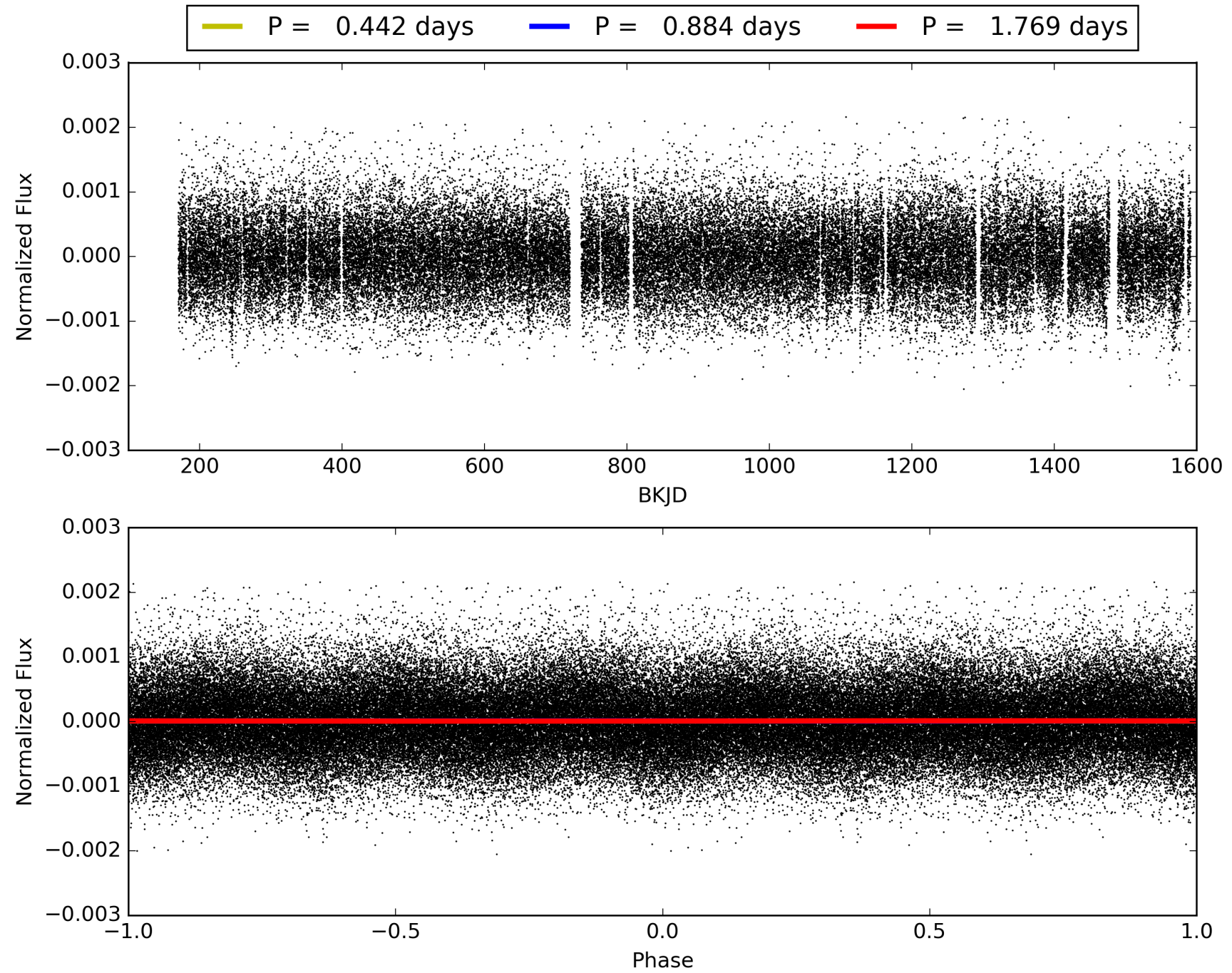
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 15:55:34 Z

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

TCE 005965860-01, PDC Light Curves

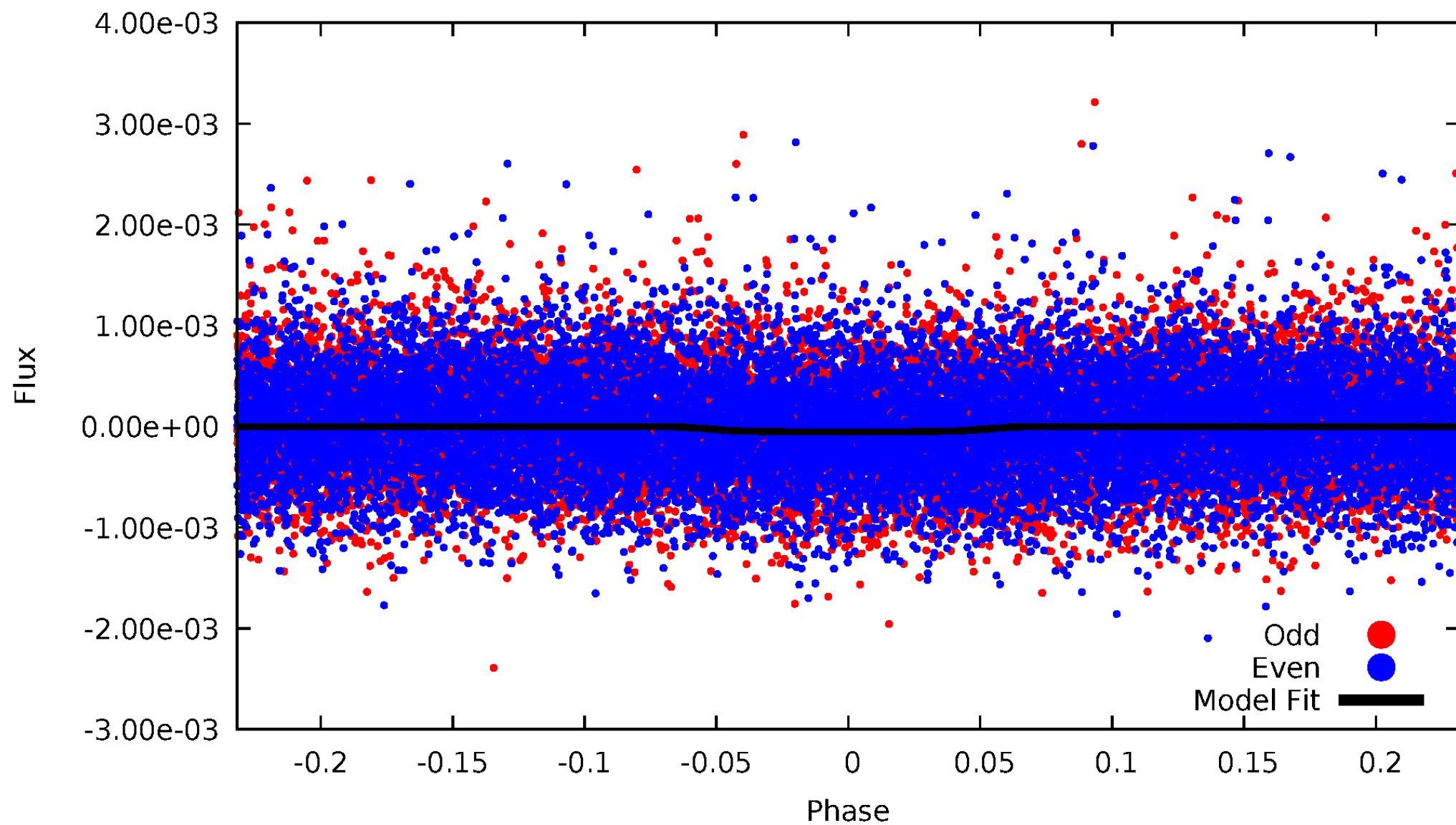


TCE 005965860-01



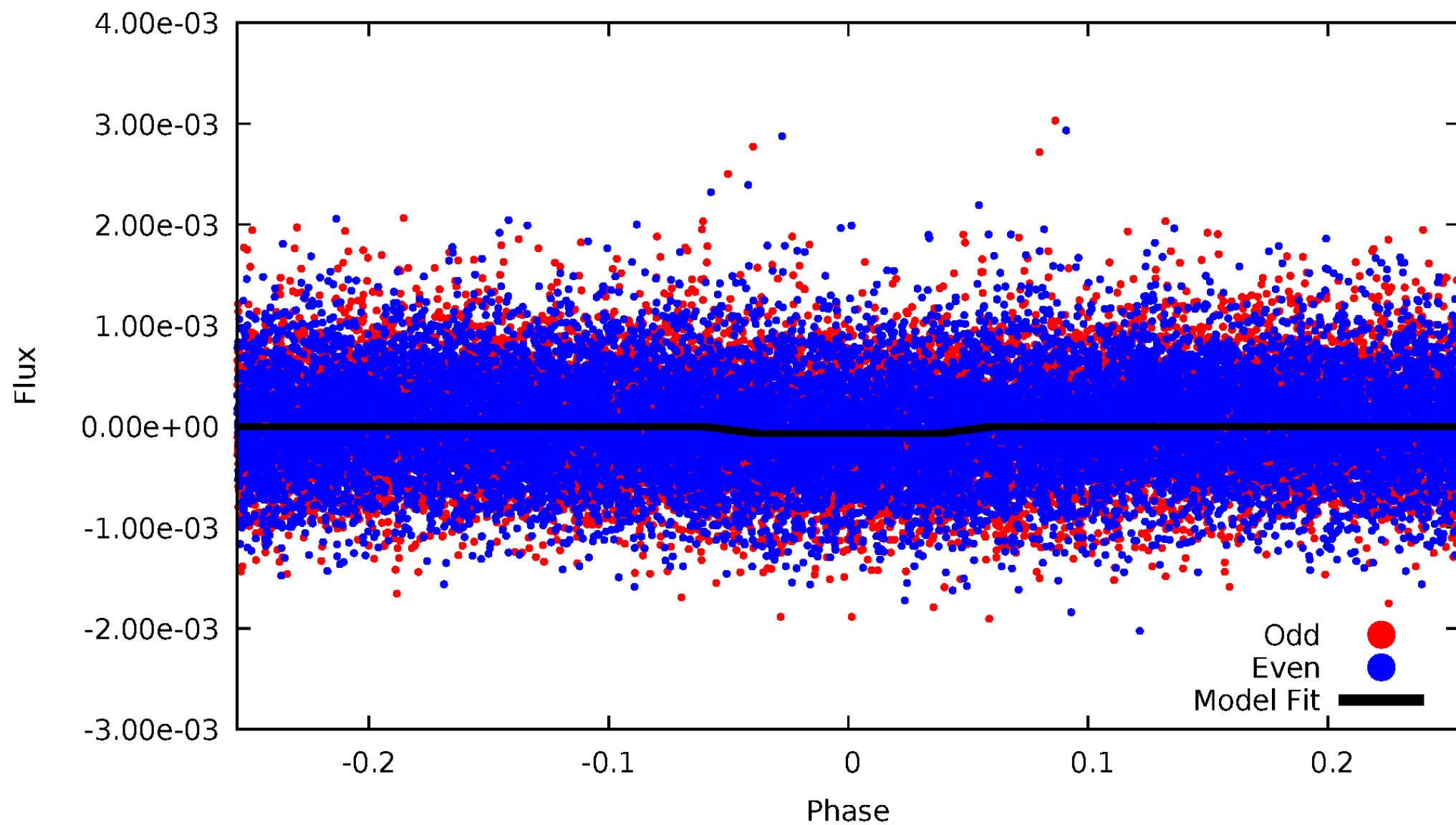
DV Odd/Even

TCE 005965860-01



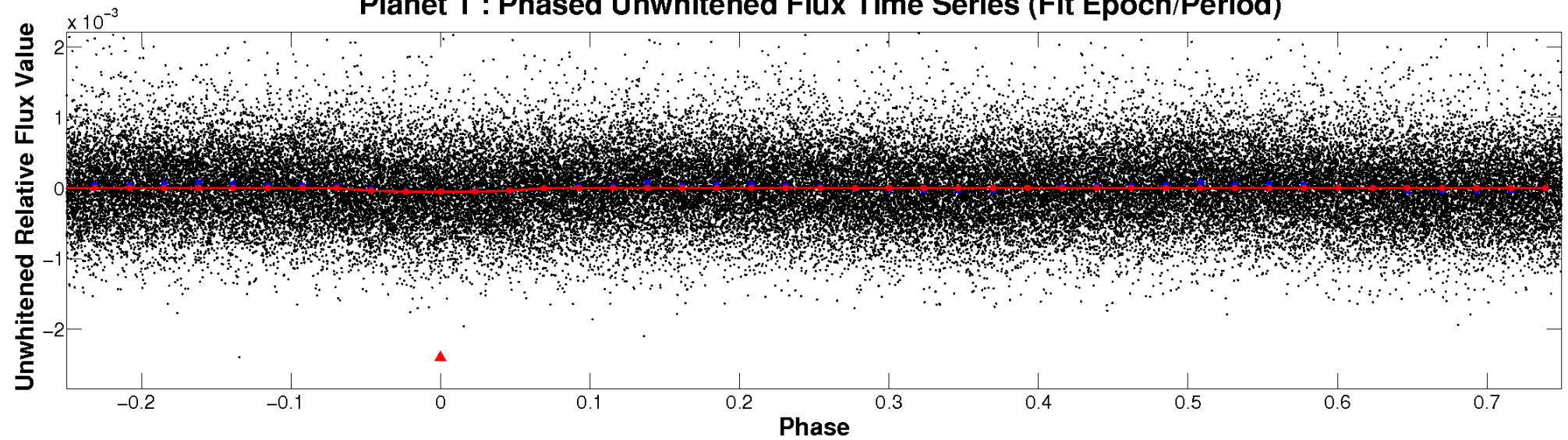
ALT Odd/Even

TCE 005965860-01

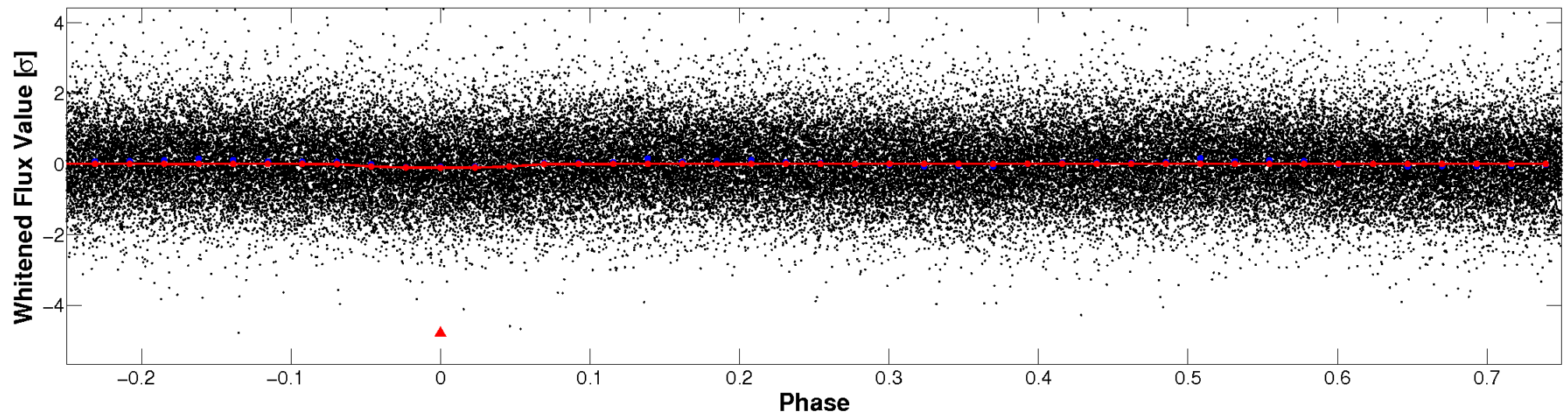


Non-Whitened Vs. Whitened Light Curve

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

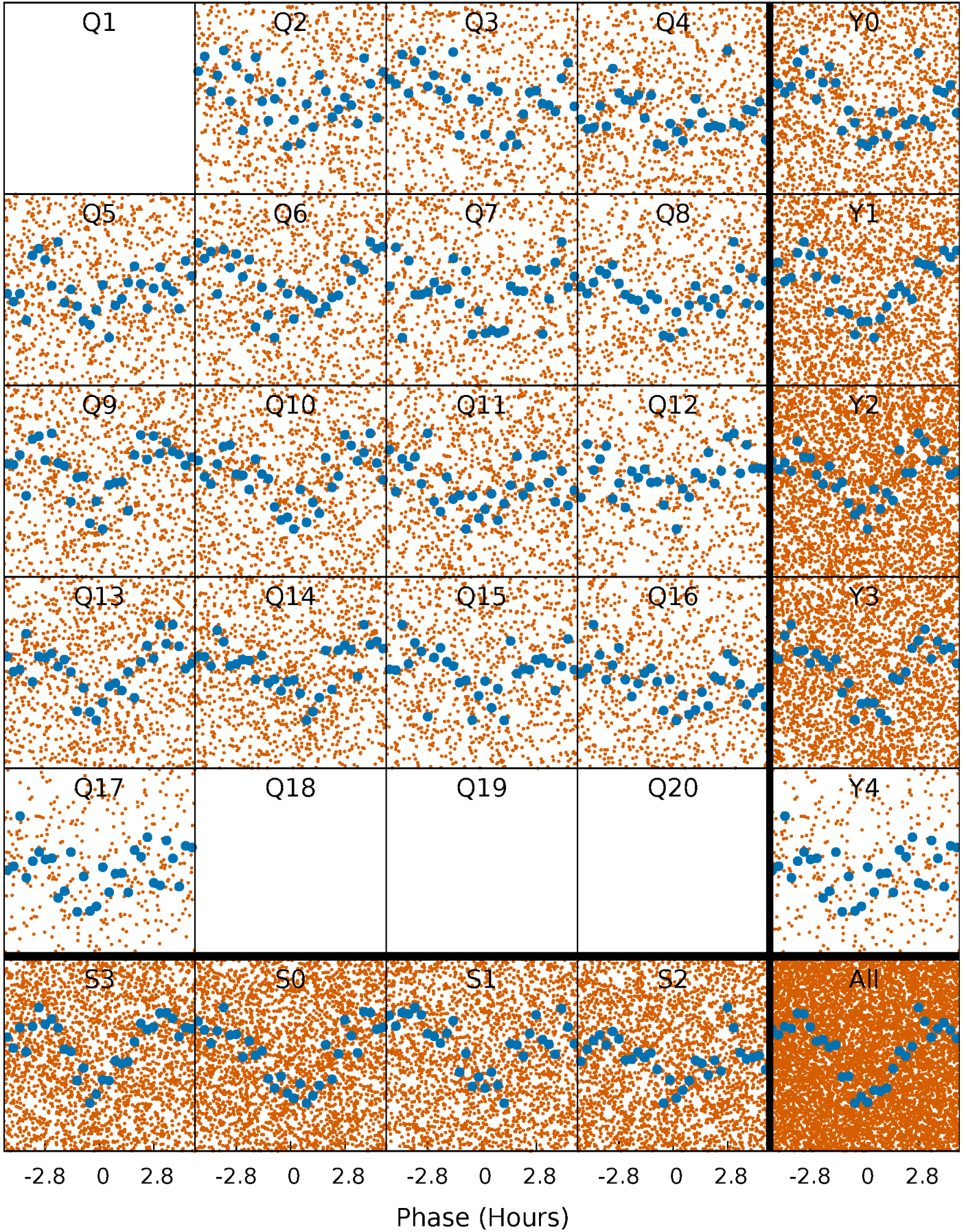


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



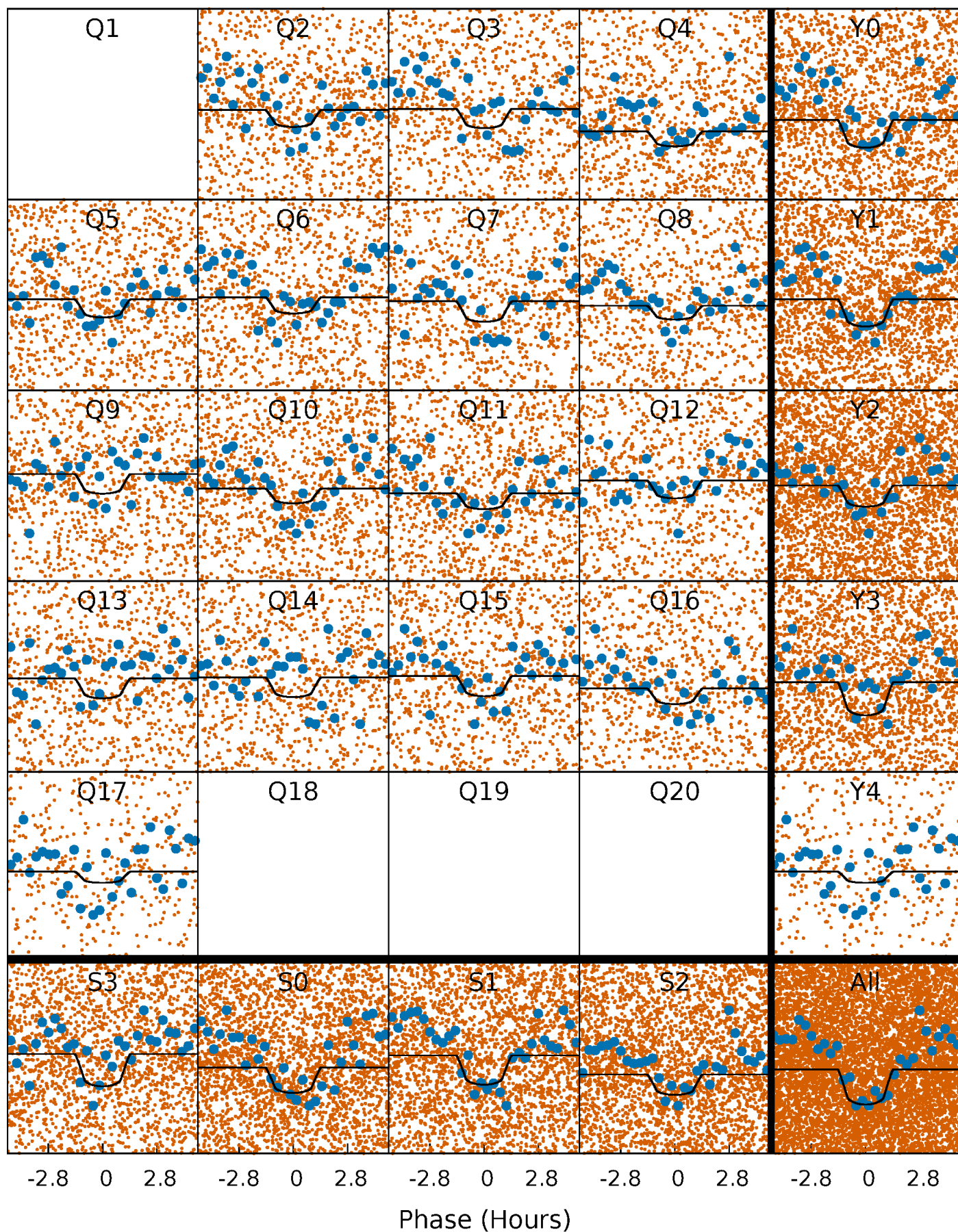
PDC Quarter-Phased Transit Curves

TCE 005965860-01 P= 0.884423 Days $T_0=132.079459$ (BKJD)



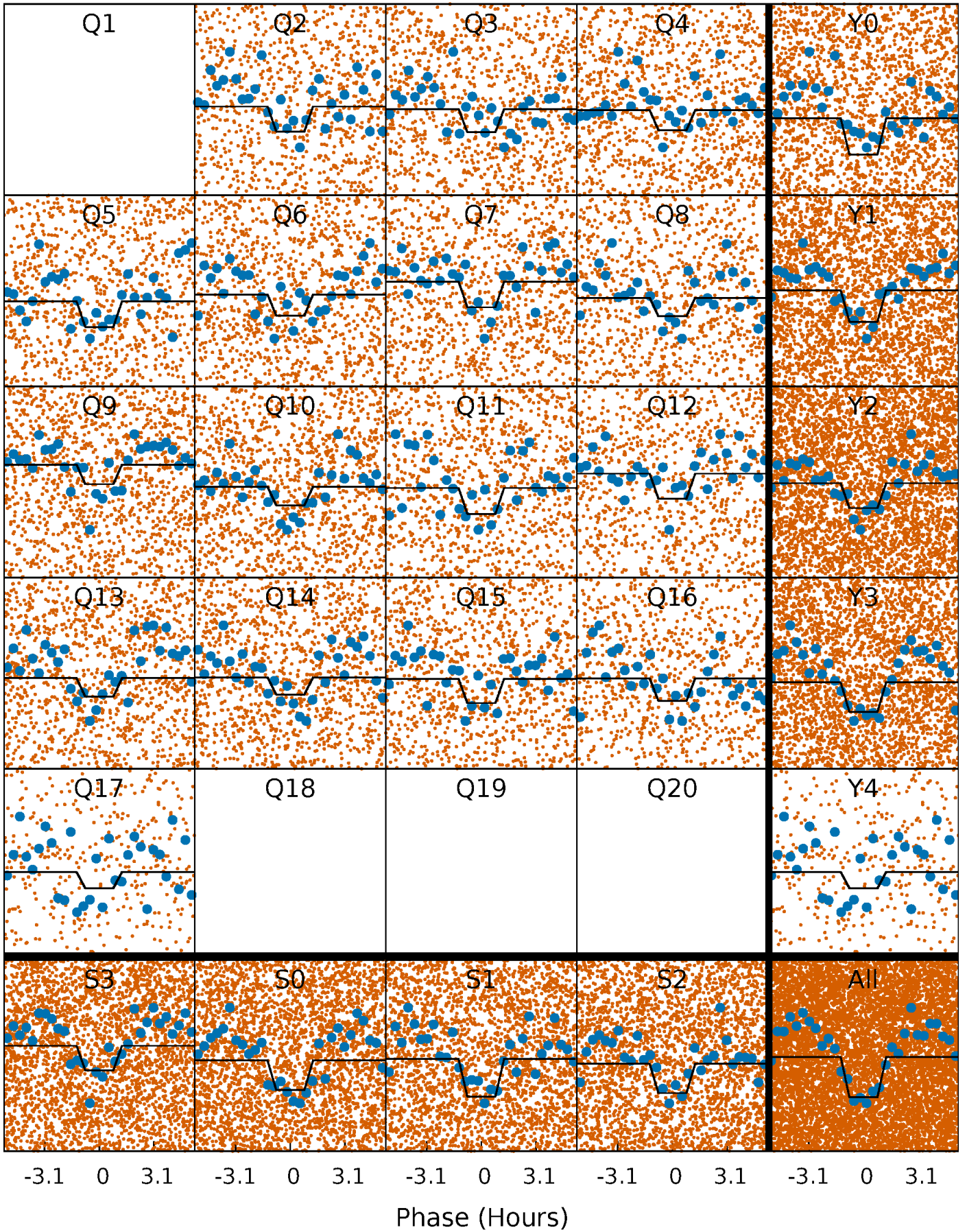
DV Quarter-Phased Transit Curves

TCE 005965860-01 P= 0.884423 Days $T_0=132.079459$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

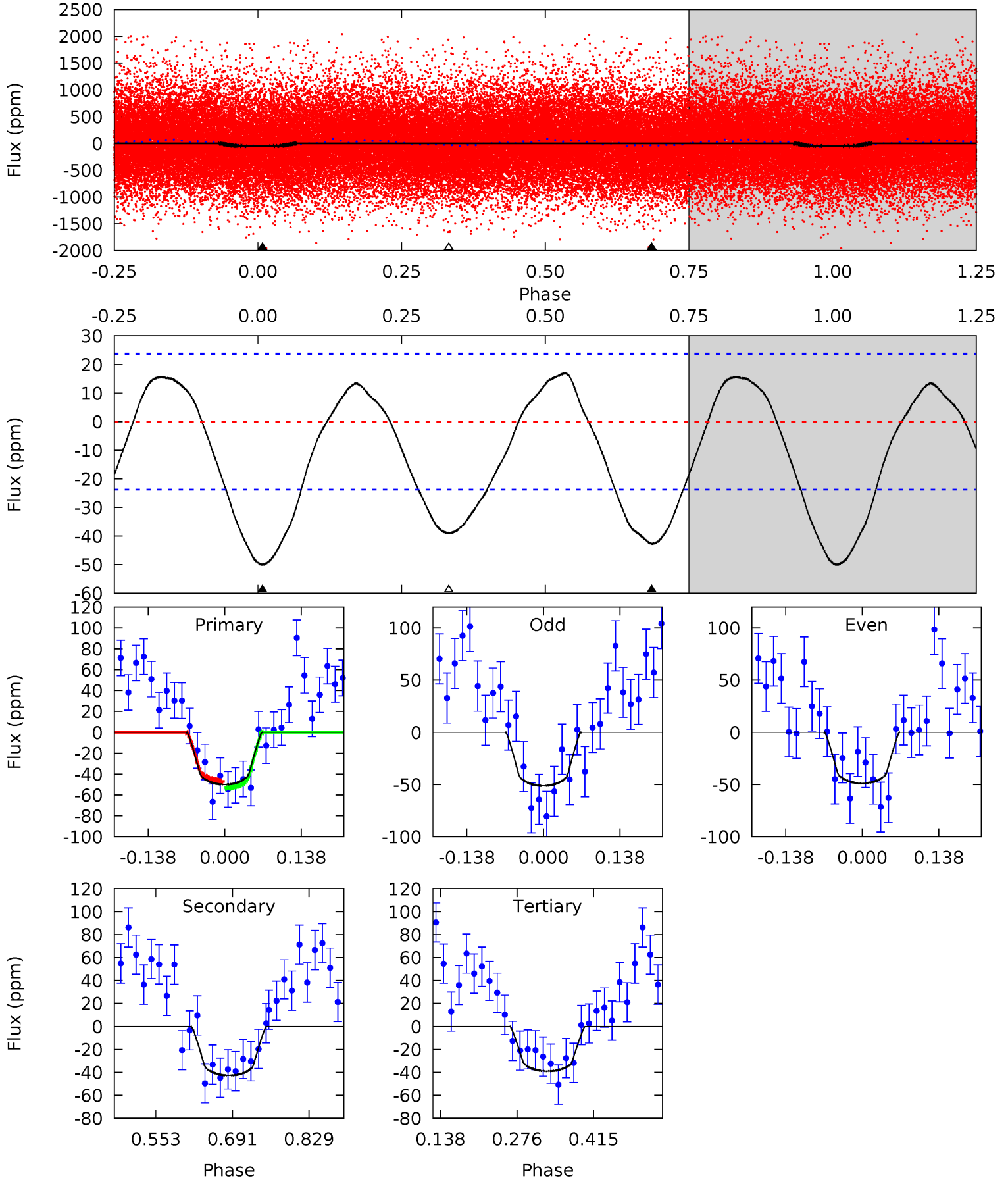
TCE 005965860-01 P= 0.884431 Days $T_0=132.078363$ (BKJD)



DV Model-Shift Uniqueness Test

005965860-01, P = 0.884423 Days, E = 132.079459 Days

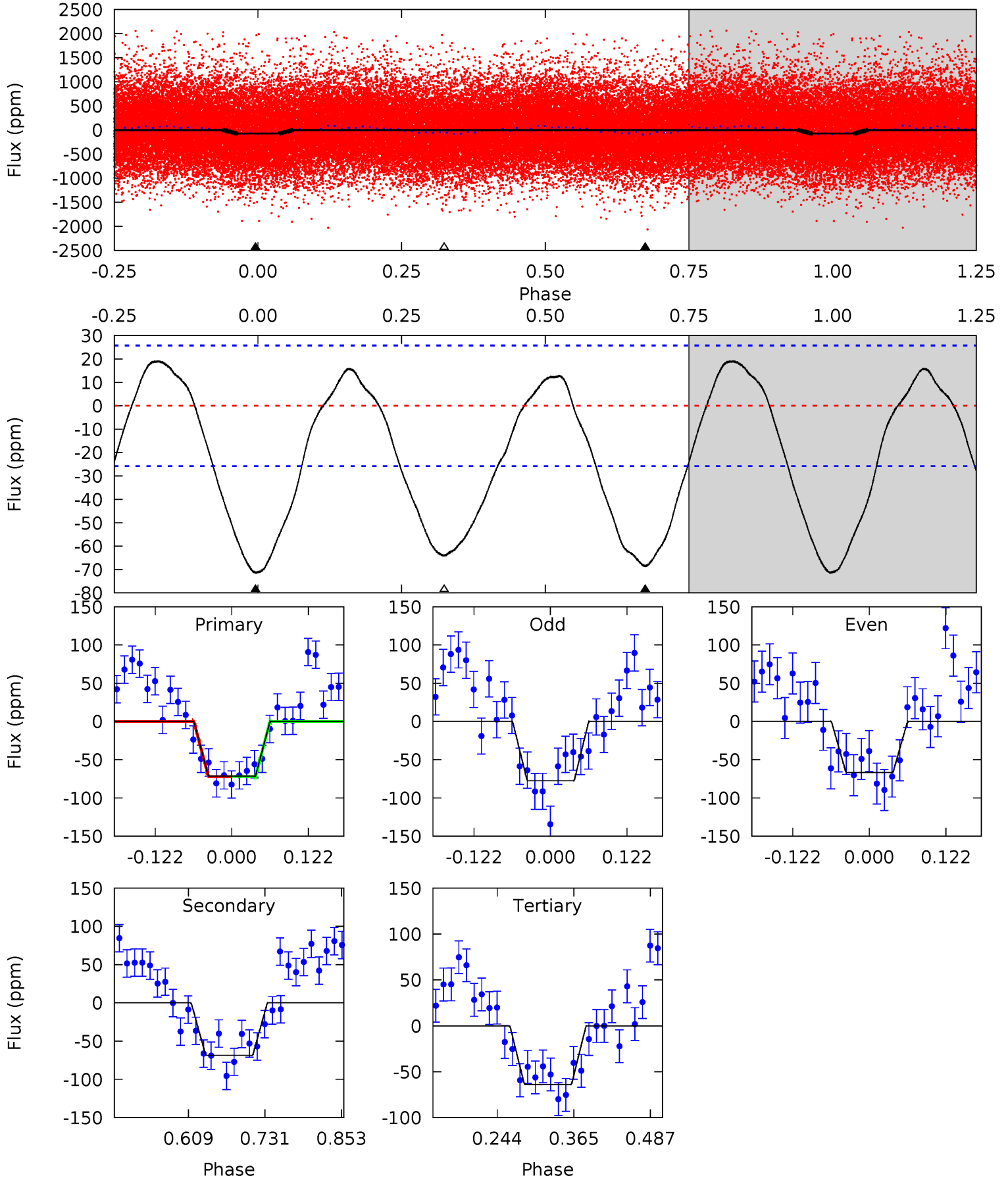
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.47	8.08	7.38	0	4.50	1.48	3.70	2.09	9.47	0.70	8.08	0.22	0.97	0.25	0.56



Alt Model-Shift Uniqueness Test

005965860-01, P = 0.884431 Days, E = 132.078363 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.5	12.0	11.2	0	4.52	1.55	4.91	1.28	12.5	0.79	12.0	0.94	1.01	0.21	0.01



Stellar Parameters For KIC 005965860

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5952^{+179}_{-197}	$4.519^{+0.039}_{-0.221}$	$-0.180^{+0.300}_{-0.300}$	$0.907^{+0.279}_{-0.093}$	$0.989^{+0.118}_{-0.131}$	$1.870^{+0.407}_{-1.028}$
	+3%/-3%	+1%/-5%	+167%/-167%	+31%/-10%	+12%/-13%	+22%/-55%
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 005965860-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-43 ± 5	$0.97^{+0.79}_{-0.60}$	2690^{+196}_{-135}	5065^{+3209}_{-1125}	$7.743^{+47.270}_{-5.343}$
Alt.	-69 ± 6	$1.00^{+0.75}_{-0.63}$	2679^{+180}_{-131}	5563^{+4094}_{-1211}	12^{+71}_{-8}

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 $A_{obs} \gg 1.0$

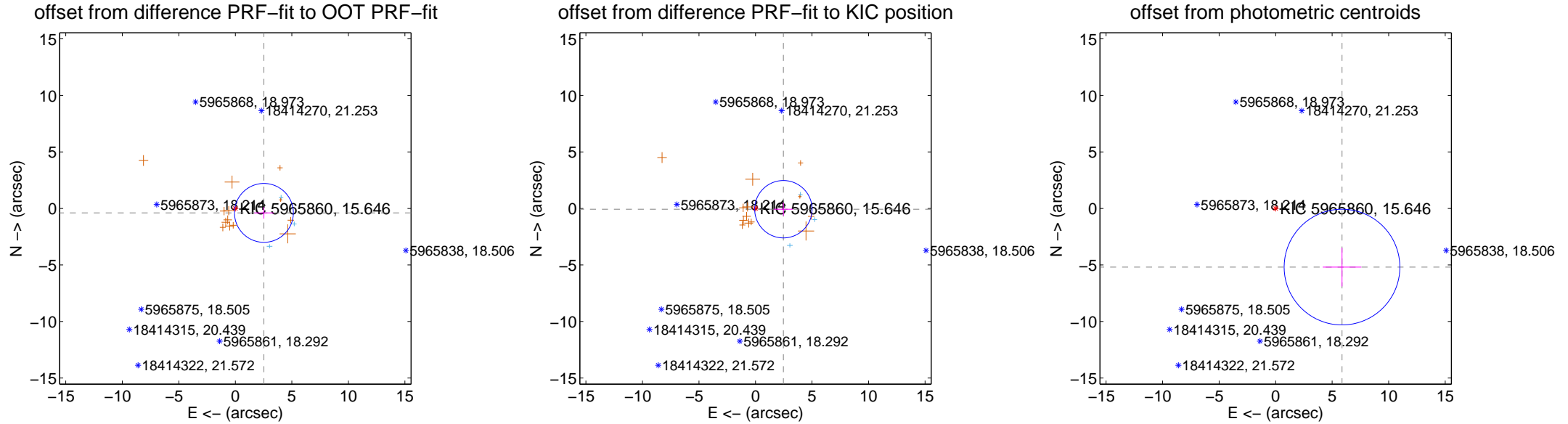
DV Centroid Data

Supplemental centroid analysis for 005965860-01. Kepler magnitude: 15.65. Transit SNR 7.76

There are 3 quarters with good PRF difference image offsets

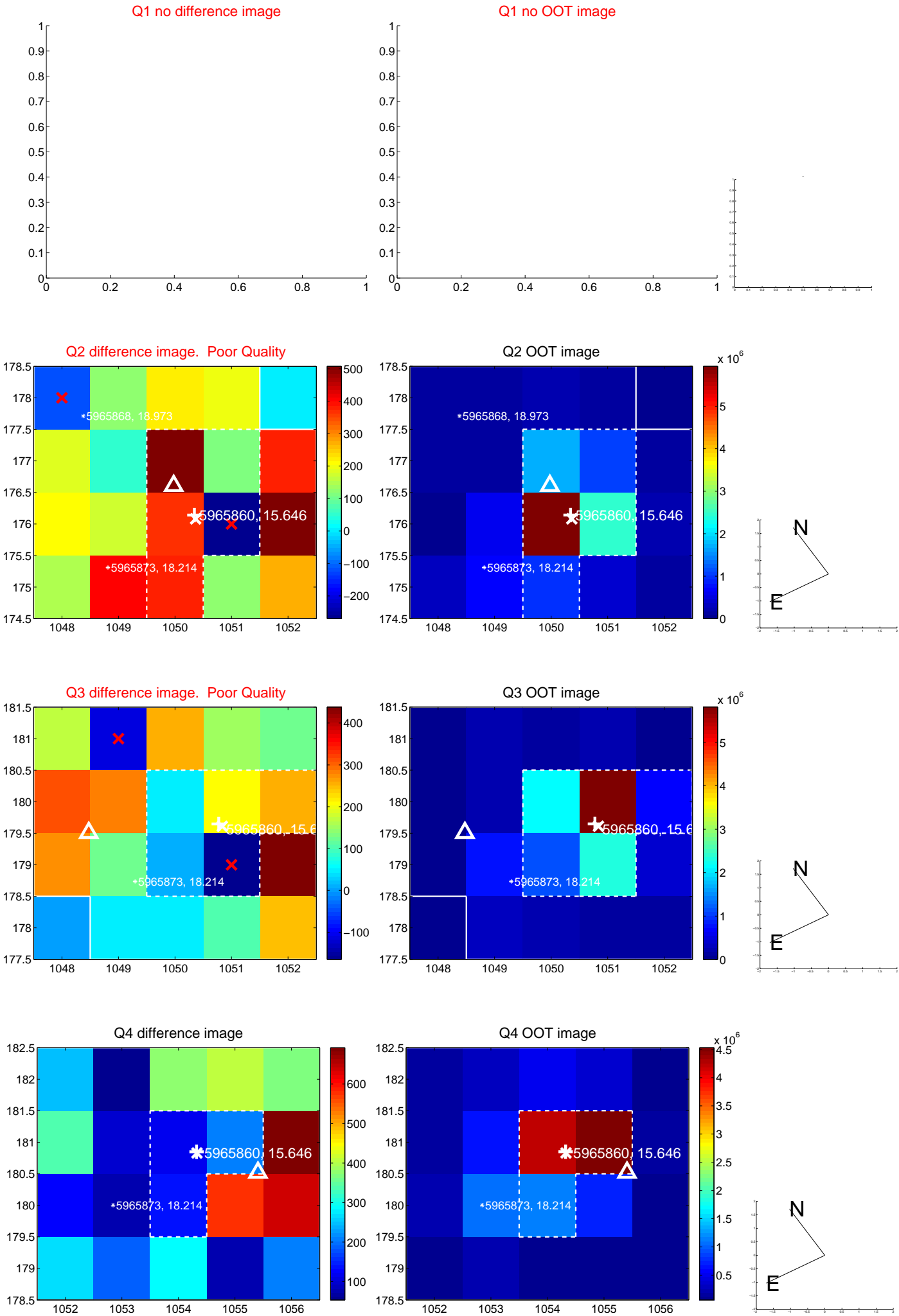
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.559 ± 0.868	2.95	-2.529 ± 0.850	-0.393 ± 0.508
PRF-fit source offset from KIC position	2.469 ± 0.846	2.92	-2.468 ± 0.840	-0.069 ± 0.579
photometric centroid source offset	7.83 ± 1.71	4.59	-5.87 ± 1.71	-5.19 ± 1.70

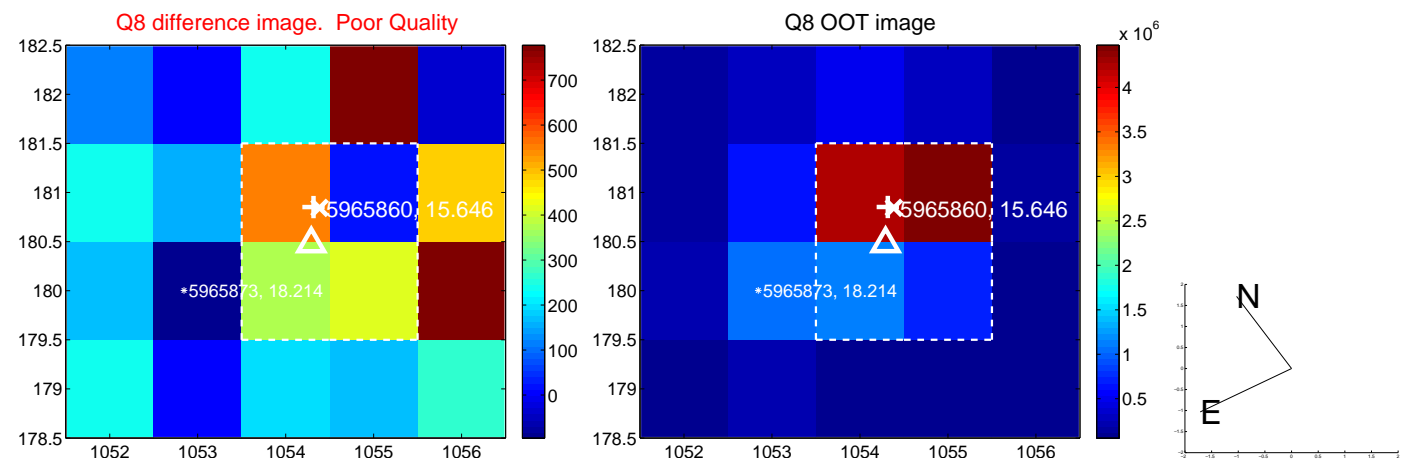
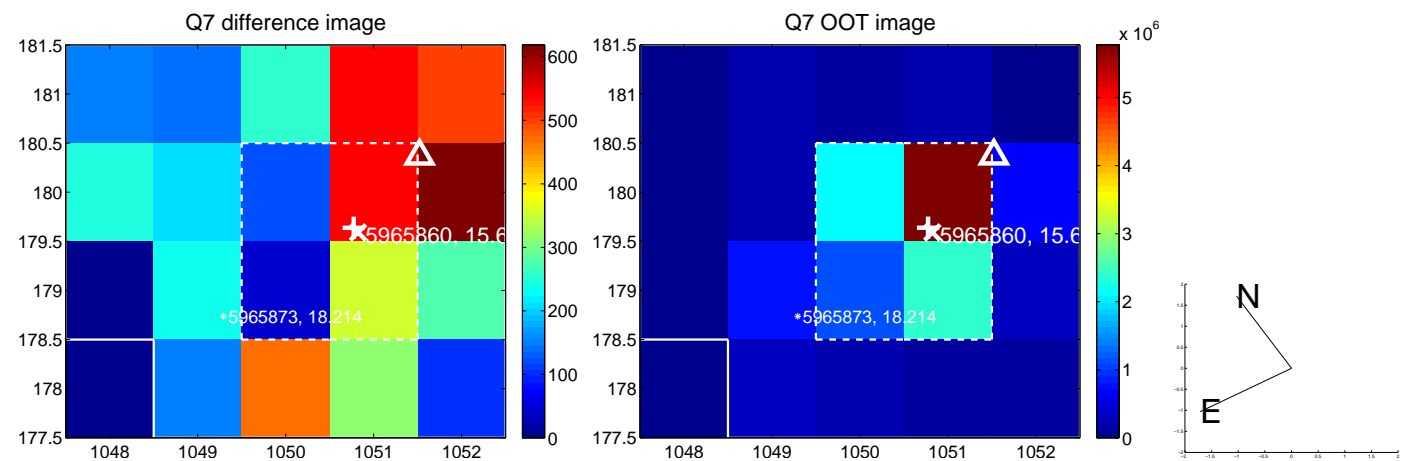
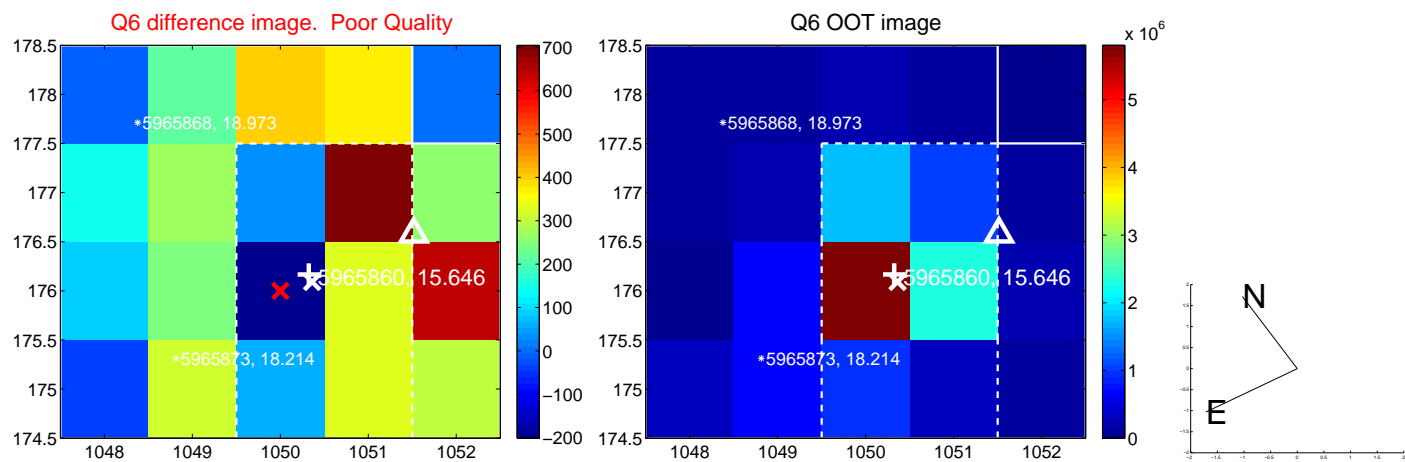
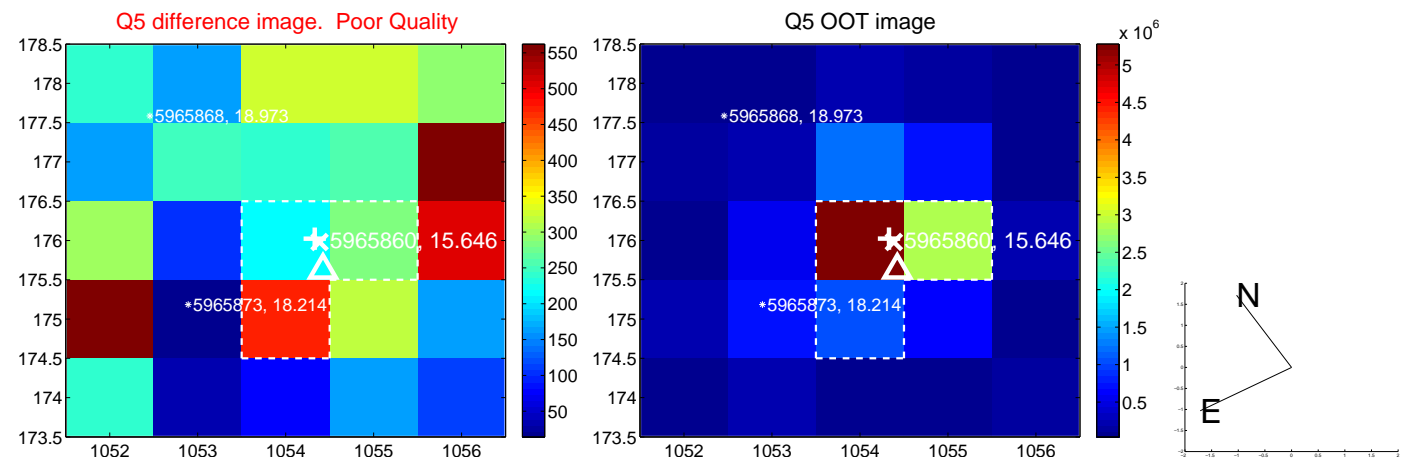


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

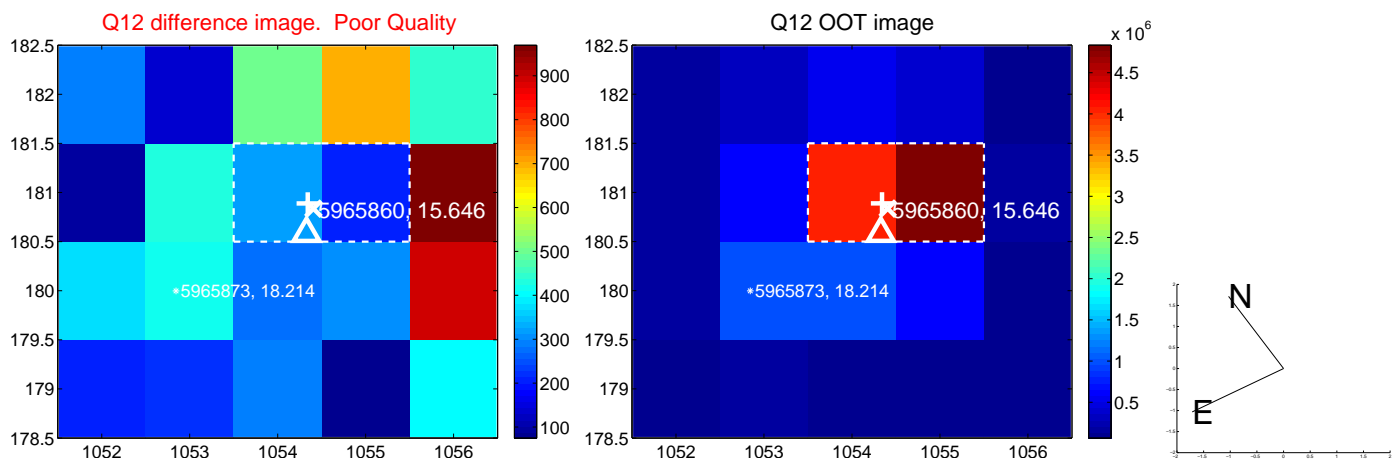
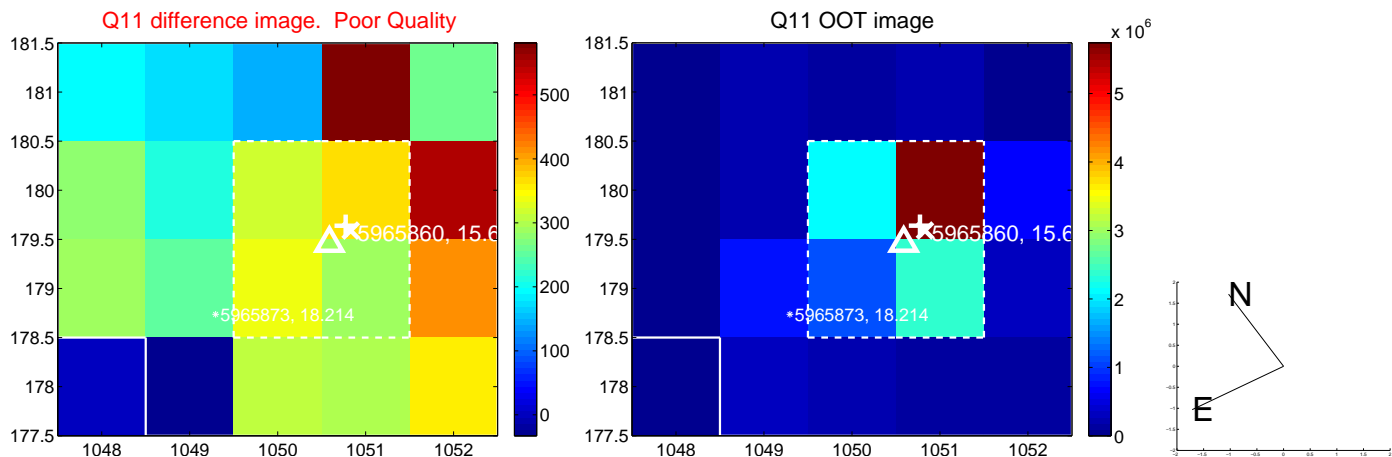
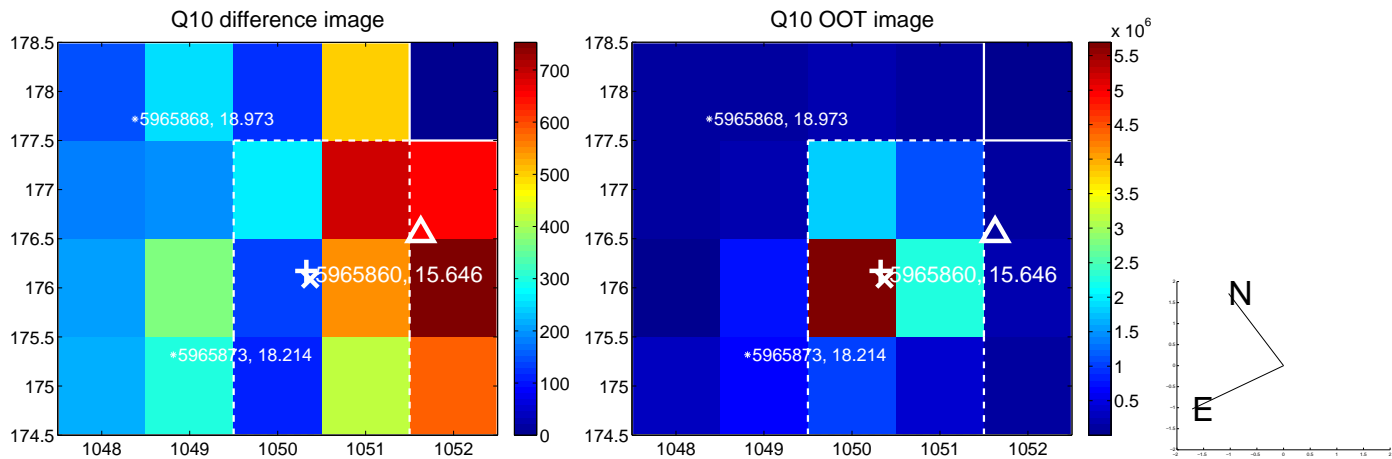
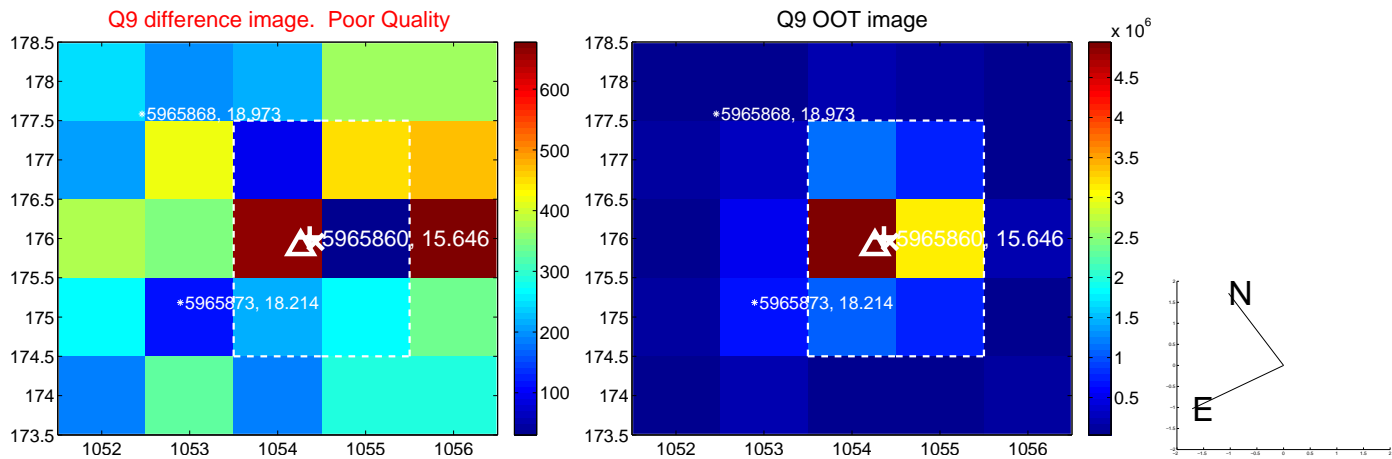
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



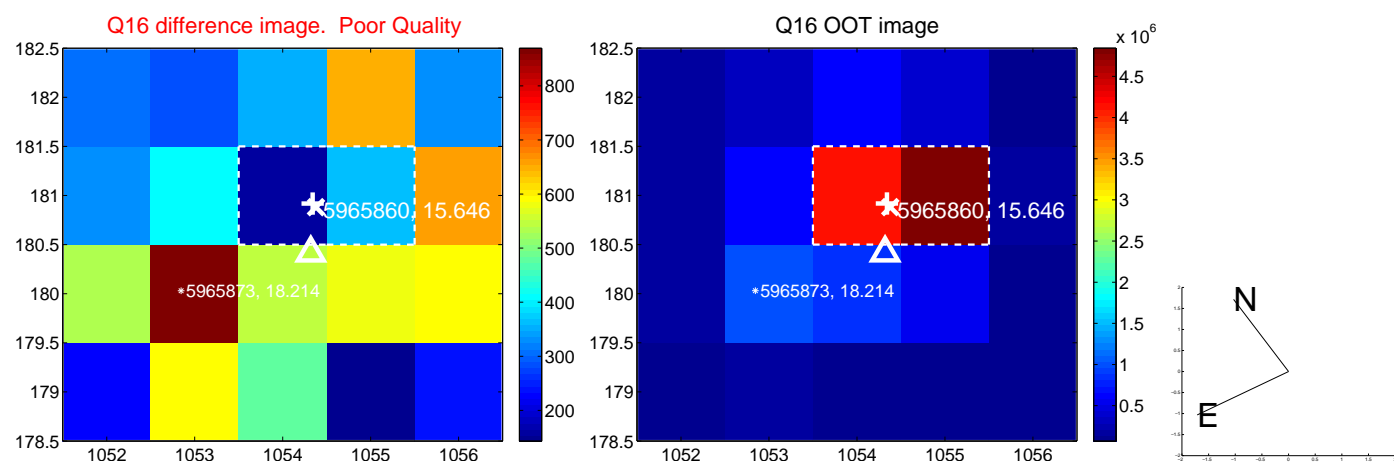
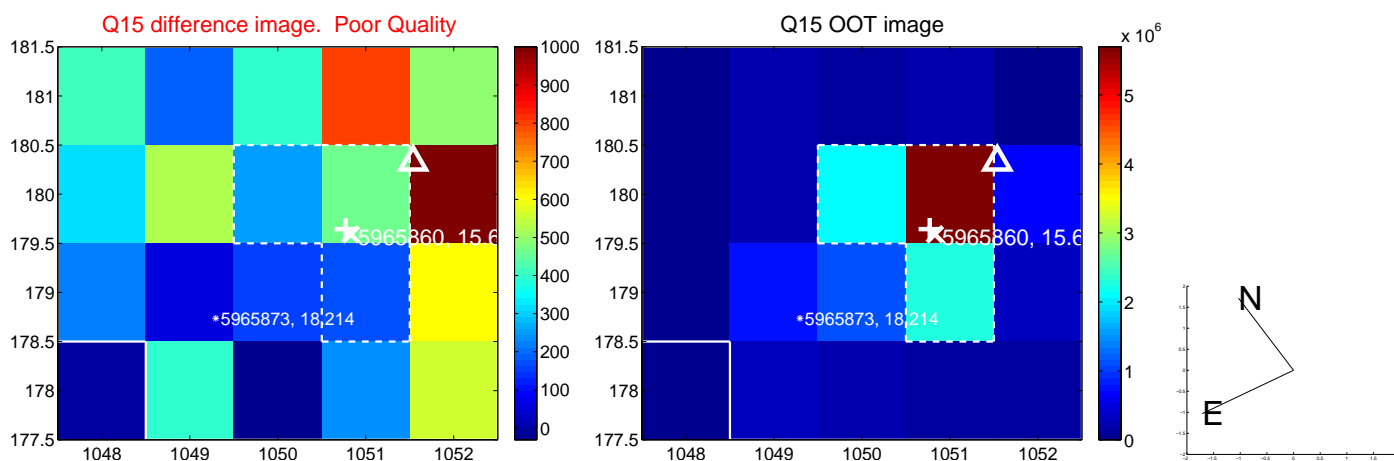
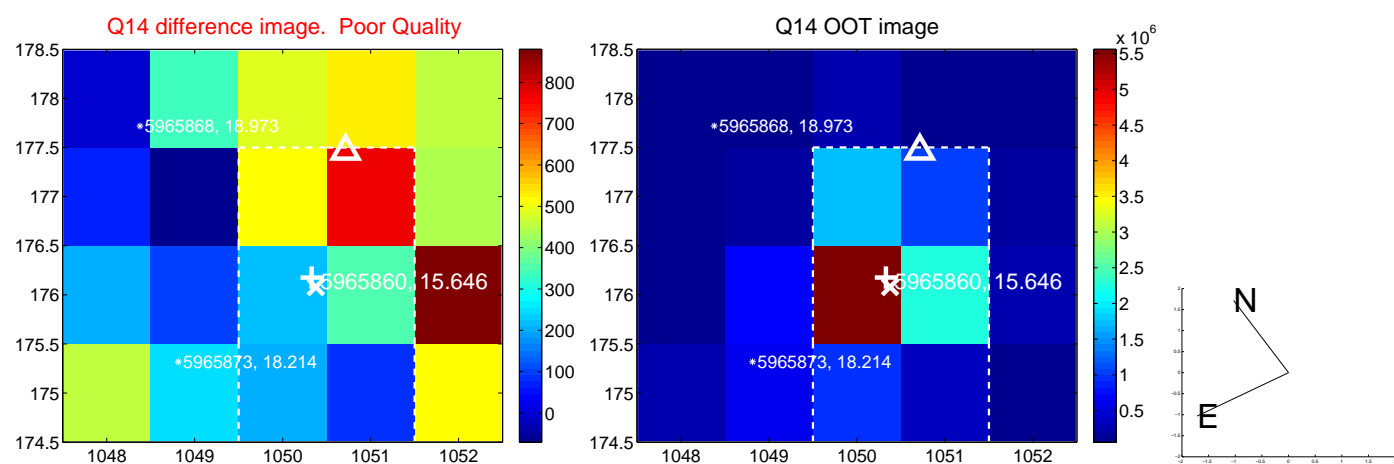
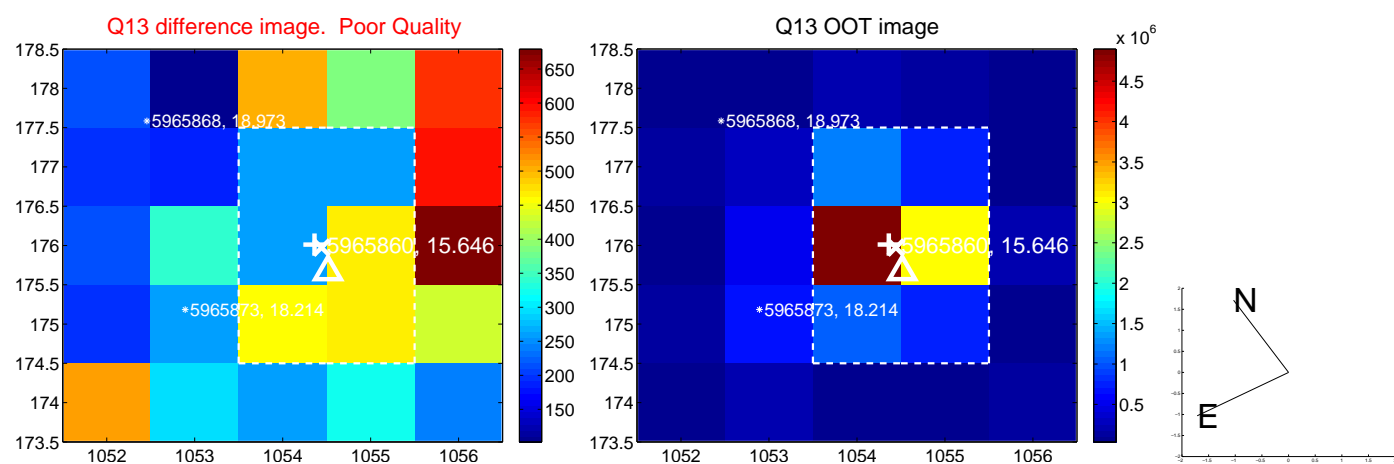
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



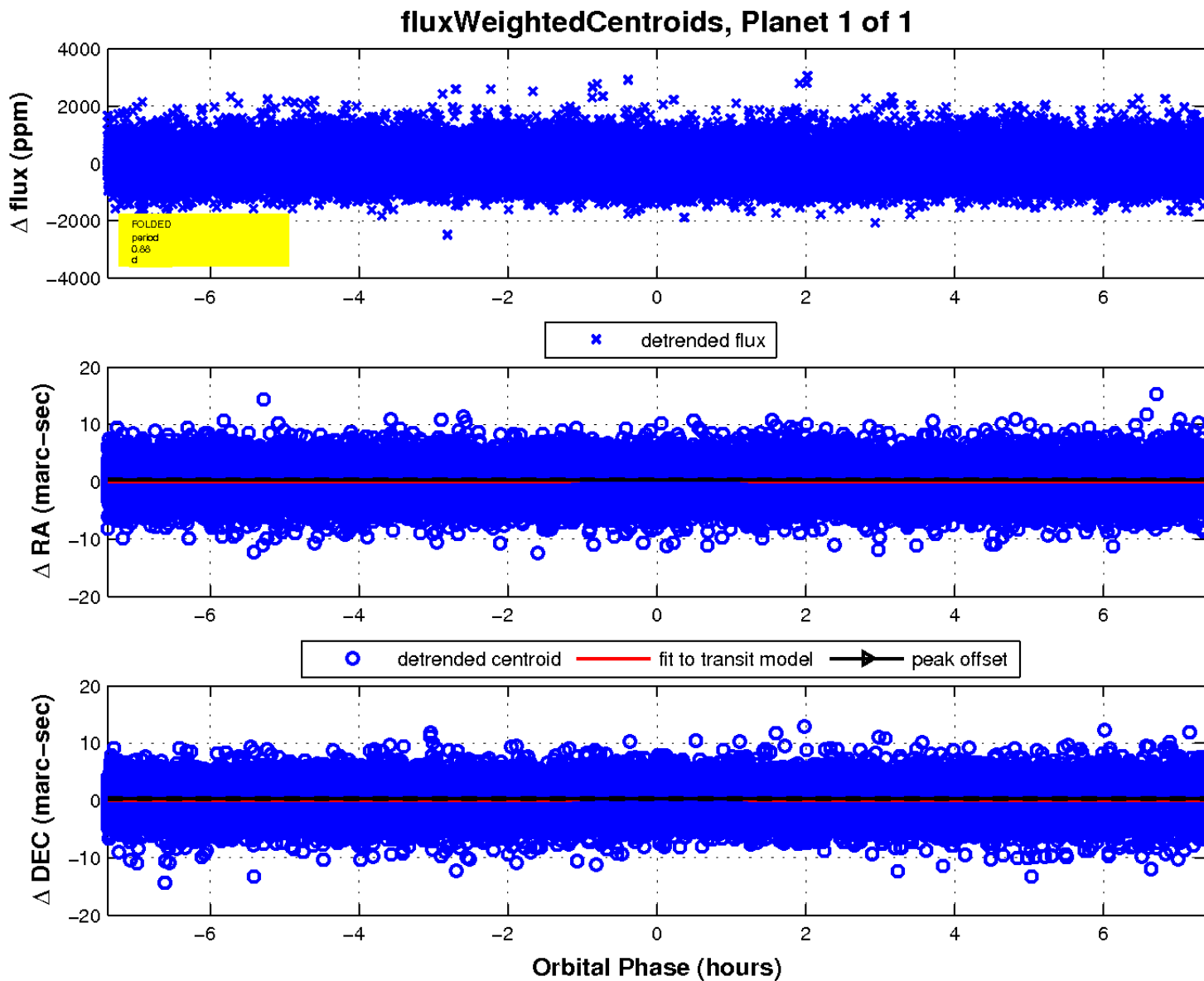
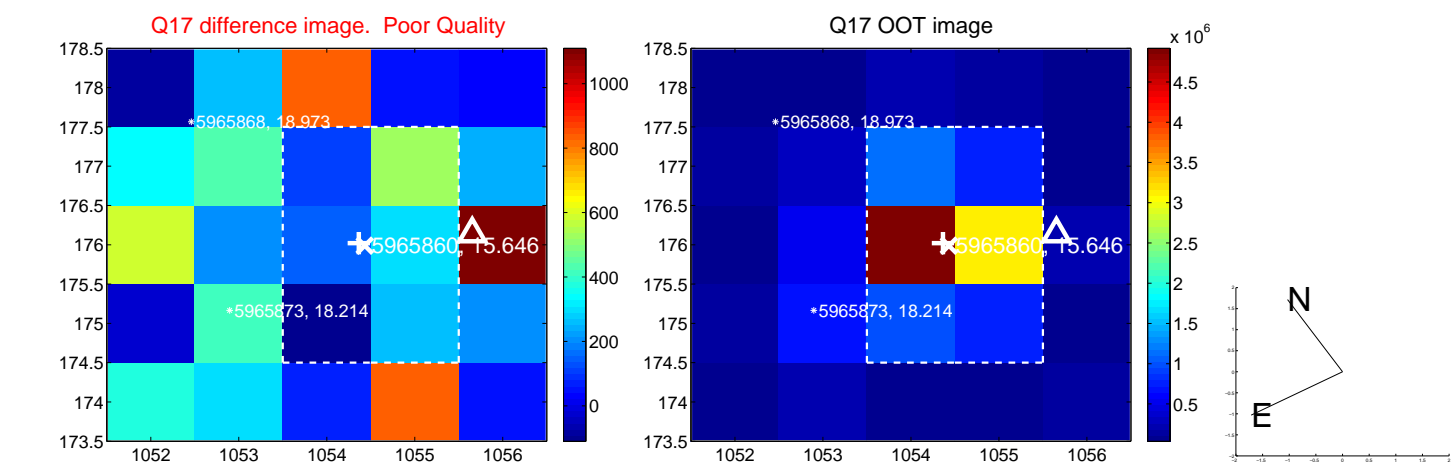
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UKIRT Image

Declination

