

KIC 005219207

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})
005219207-01	OBS	No	0.832308	132.123173	25.6	2.329	7.8	4.0	0.85	5997	0.51	2930.11

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005219207-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_ALT—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.

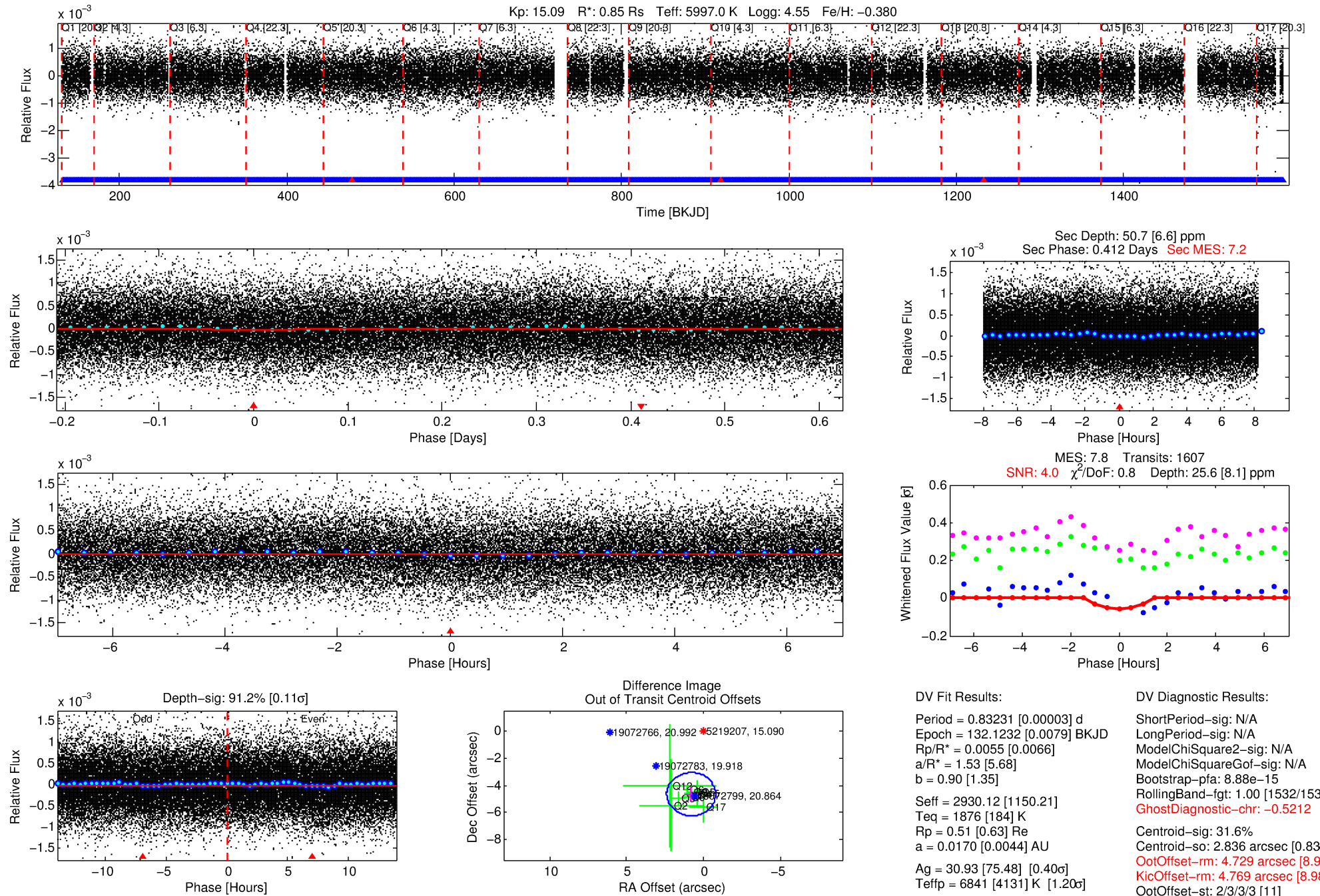
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005219207-01

No Significant Match Found

DV One-Page Summary

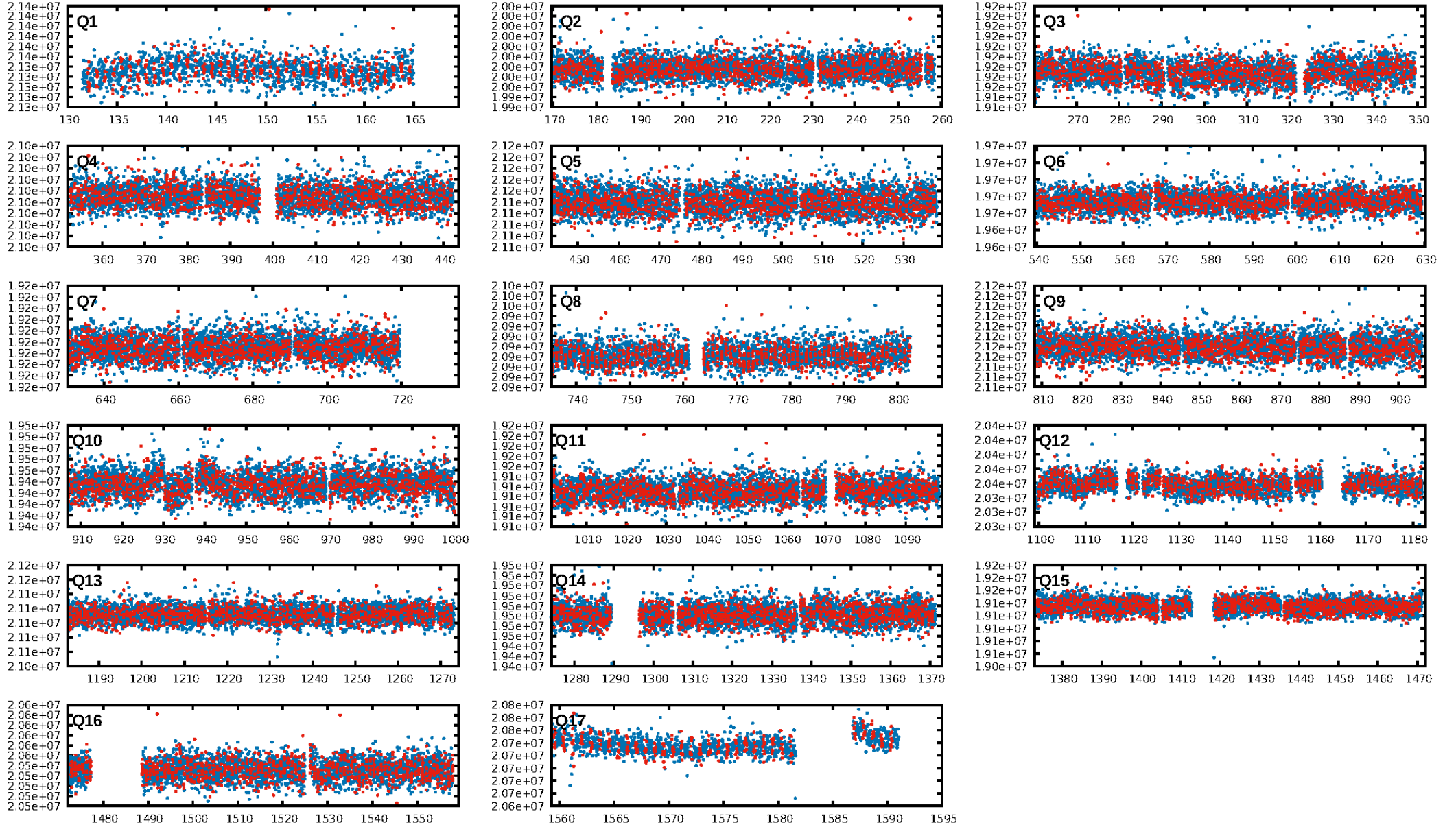
KIC: 5219207 Candidate: 1 of 1 Period: 0.832 d



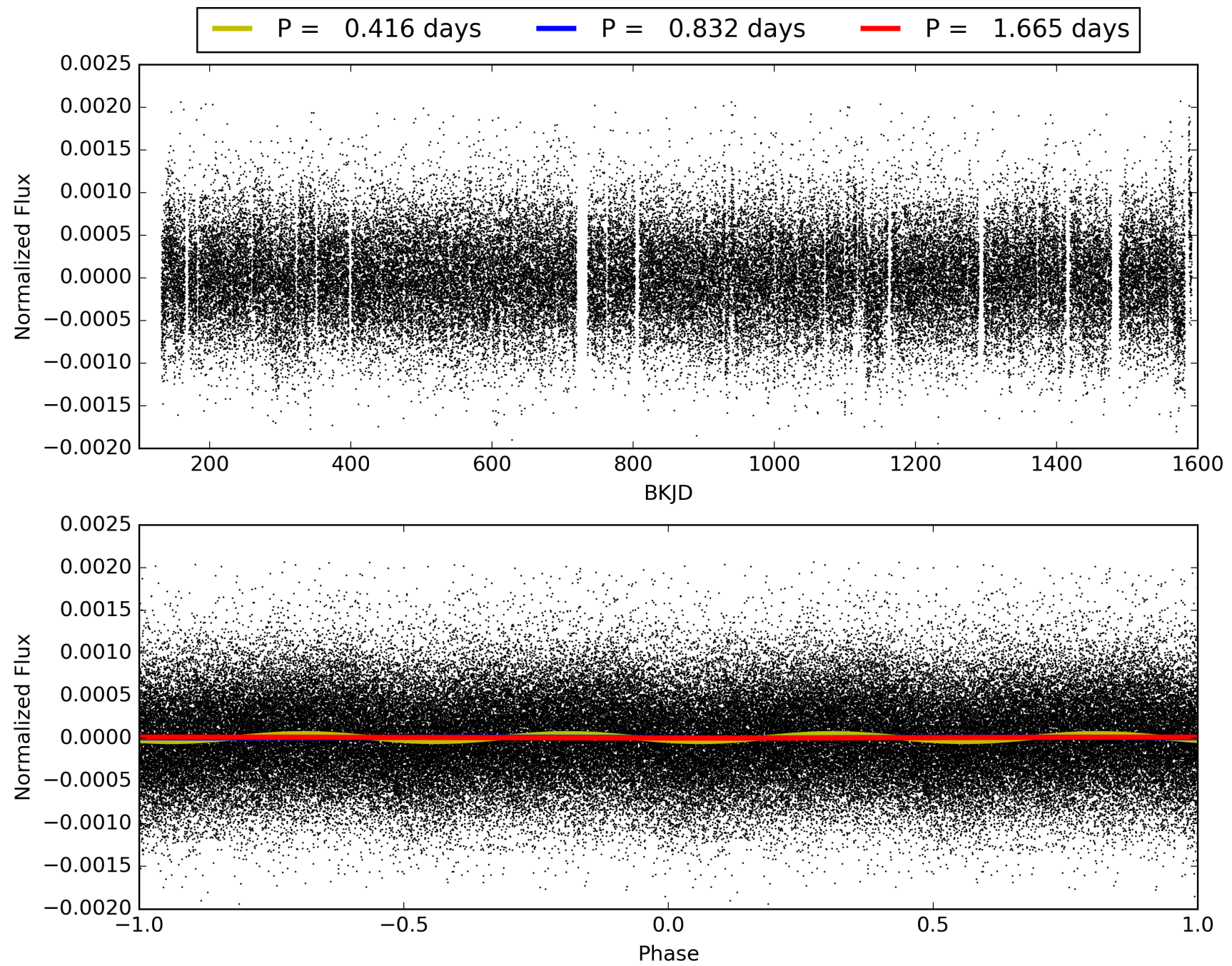
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 13:05:50 Z

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

TCE 005219207-01, PDC Light Curves

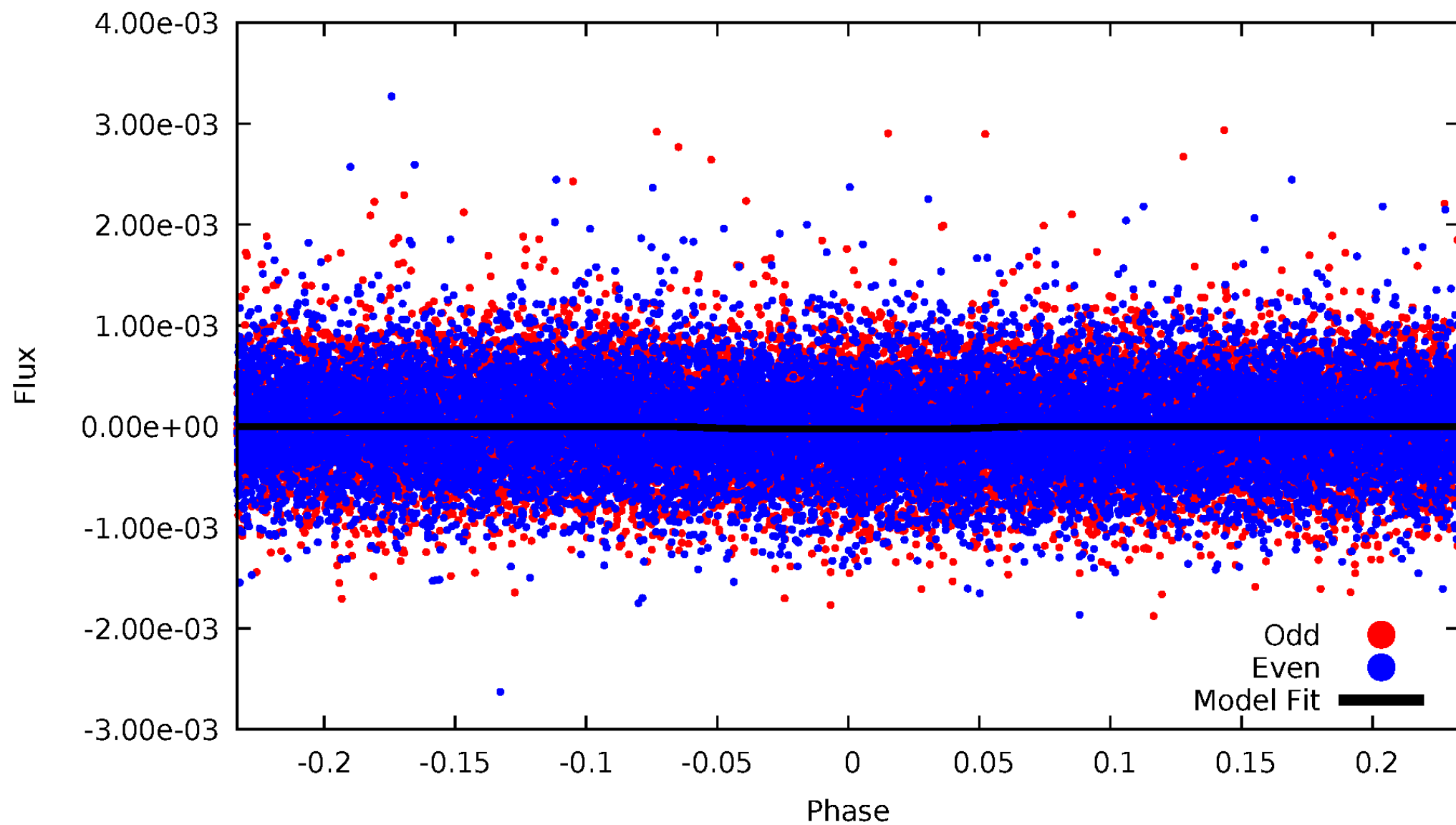


TCE 005219207-01



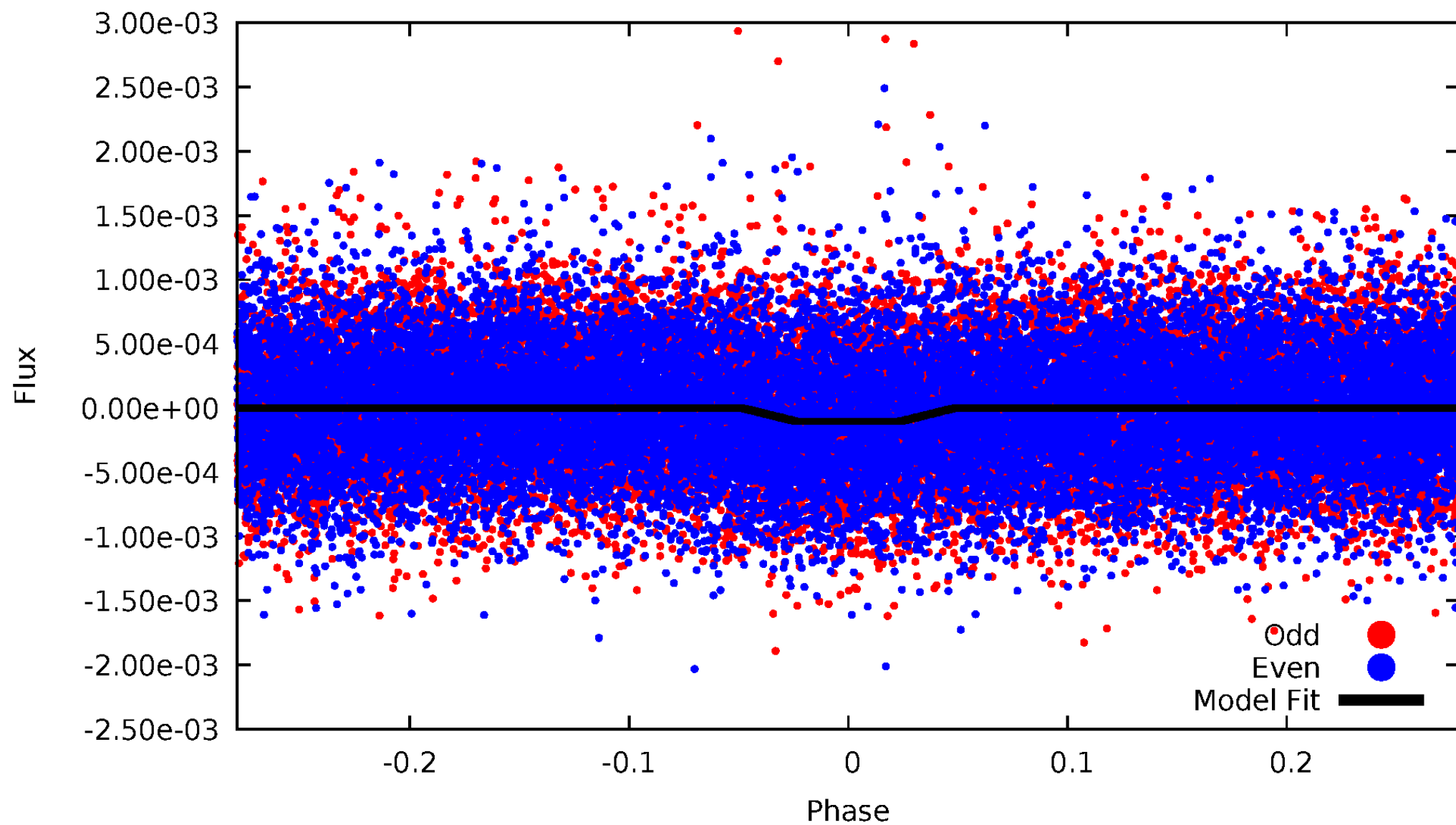
DV Odd/Even

TCE 005219207-01

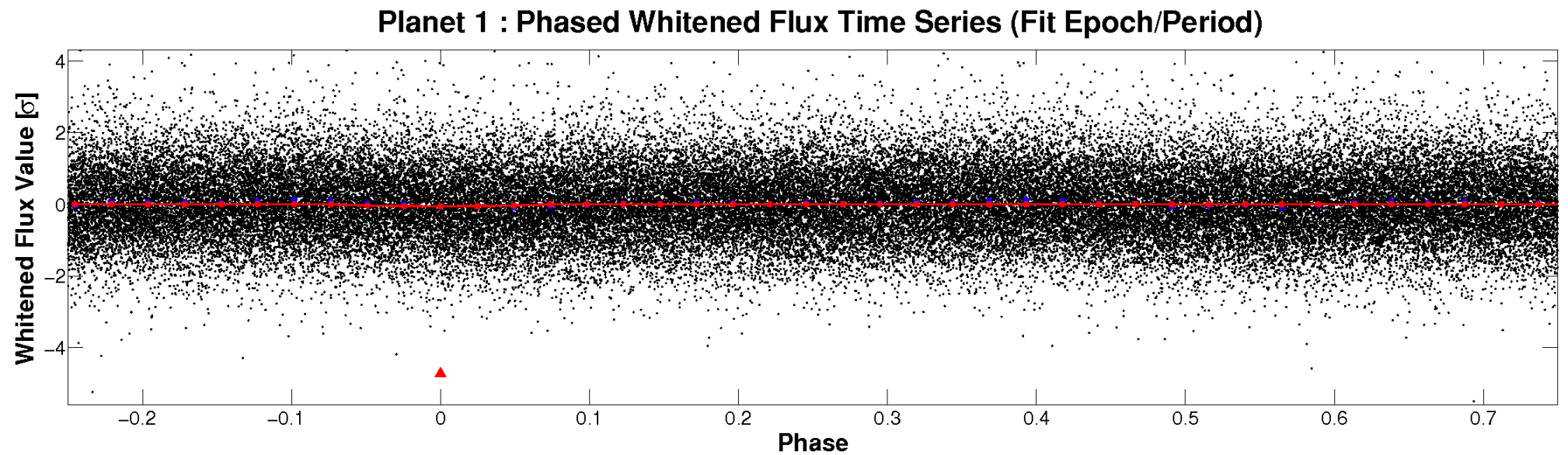
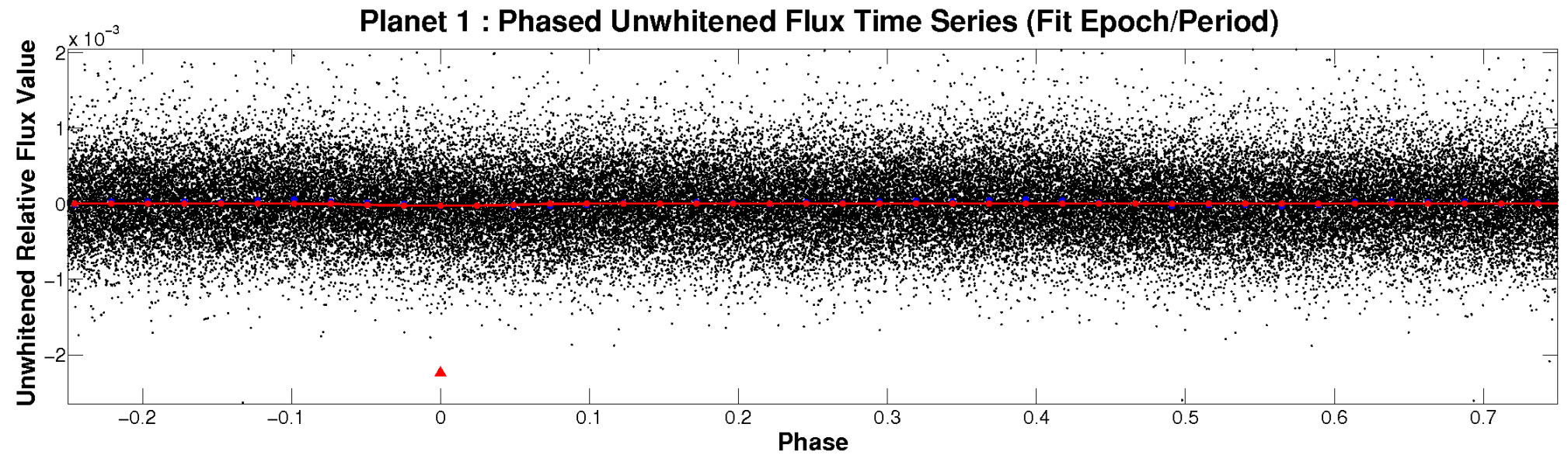


ALT Odd/Even

TCE 005219207-01

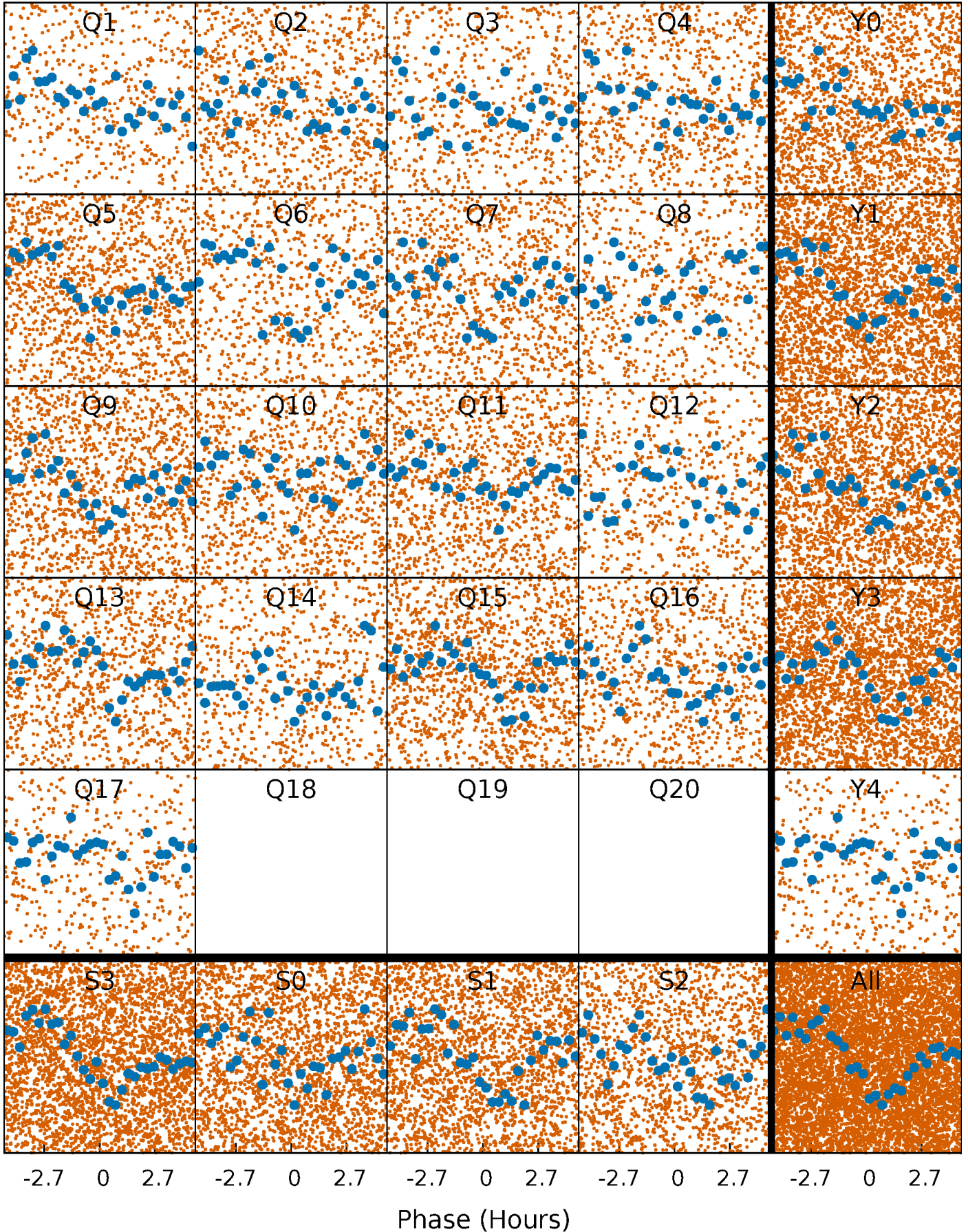


Non-Whitened Vs. Whitened Light Curve



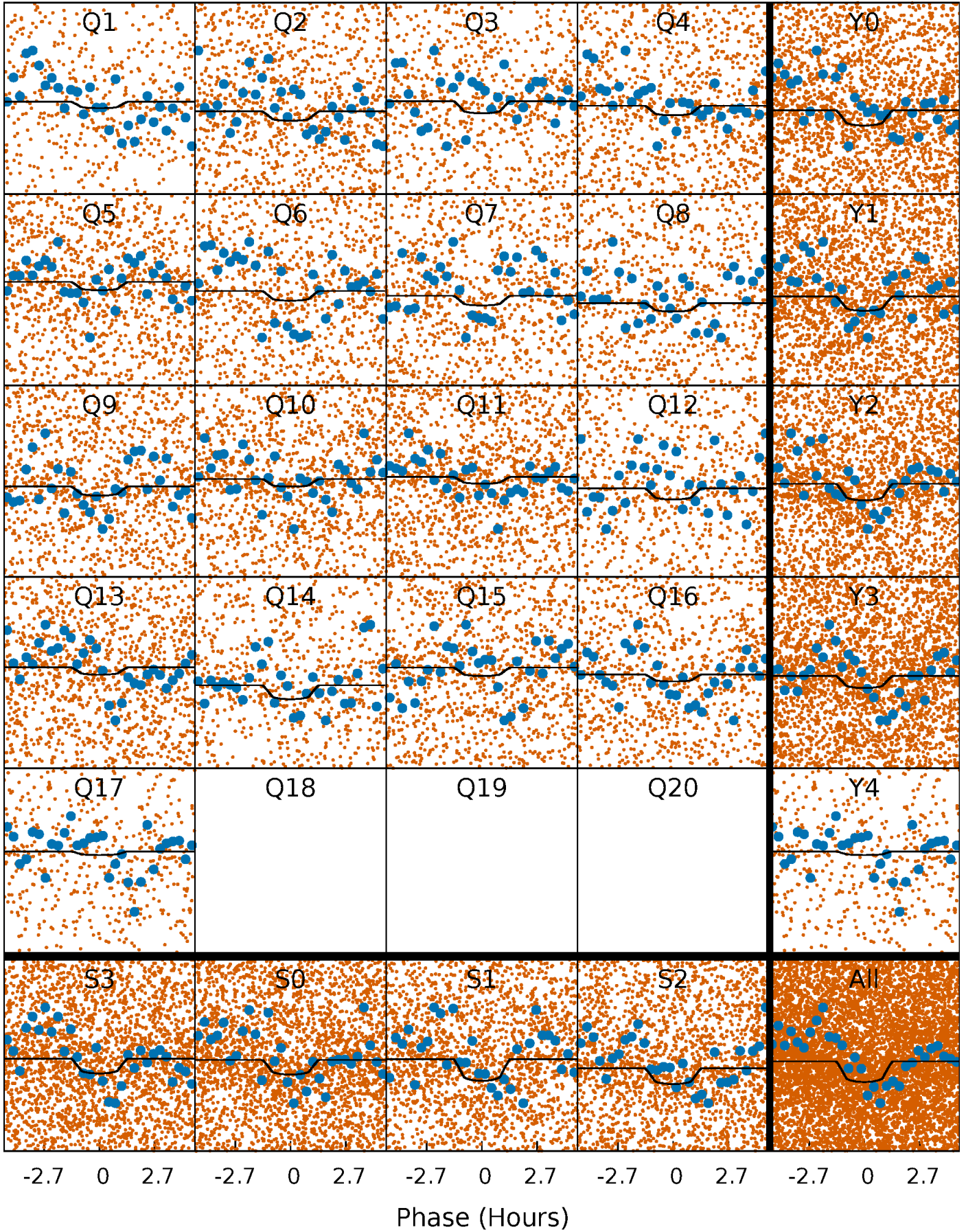
PDC Quarter-Phased Transit Curves

TCE 005219207-01 P= 0.832308 Days $T_0=132.123173$ (BKJD)



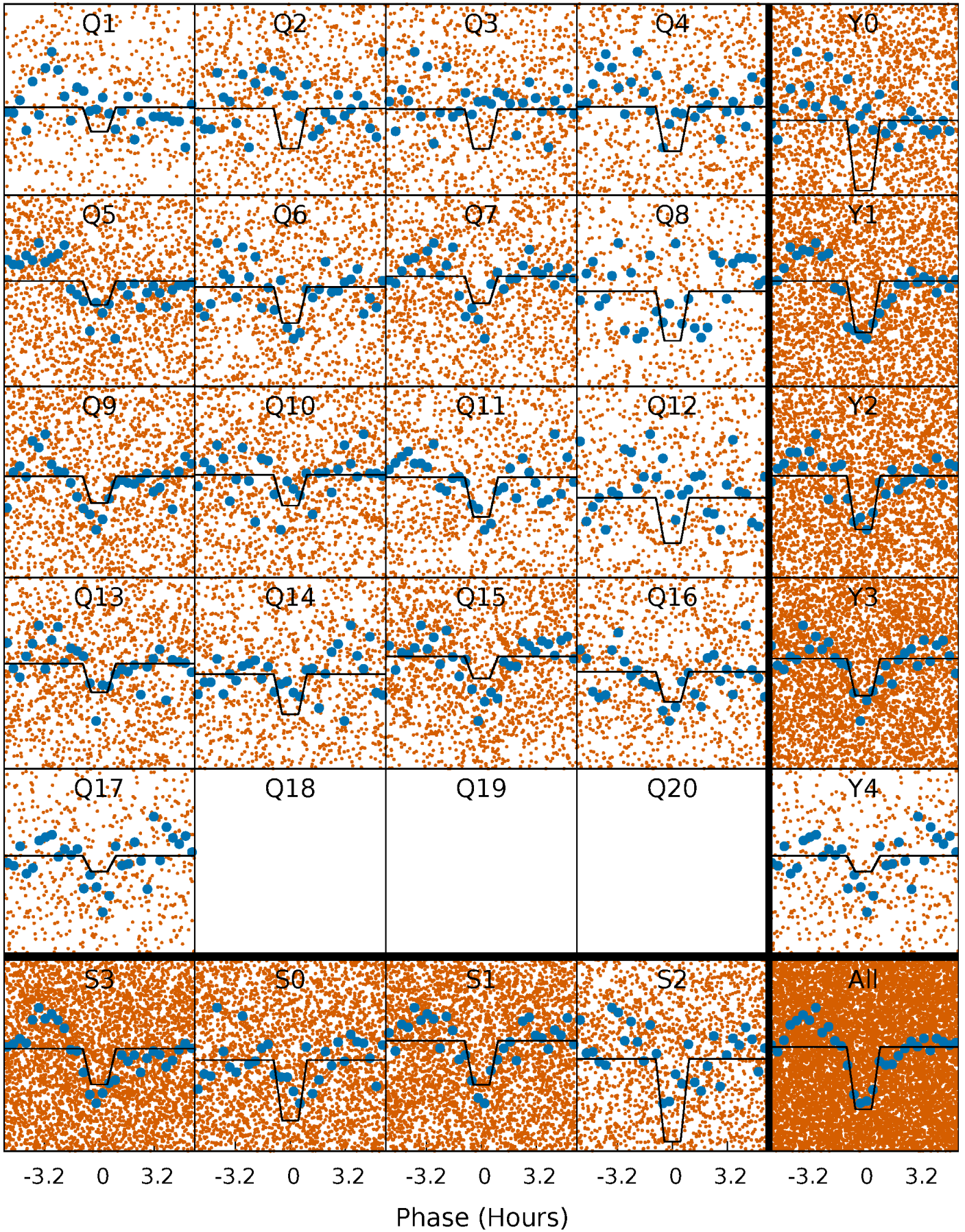
DV Quarter-Phased Transit Curves

TCE 005219207-01 P= 0.832308 Days $T_0=132.123173$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

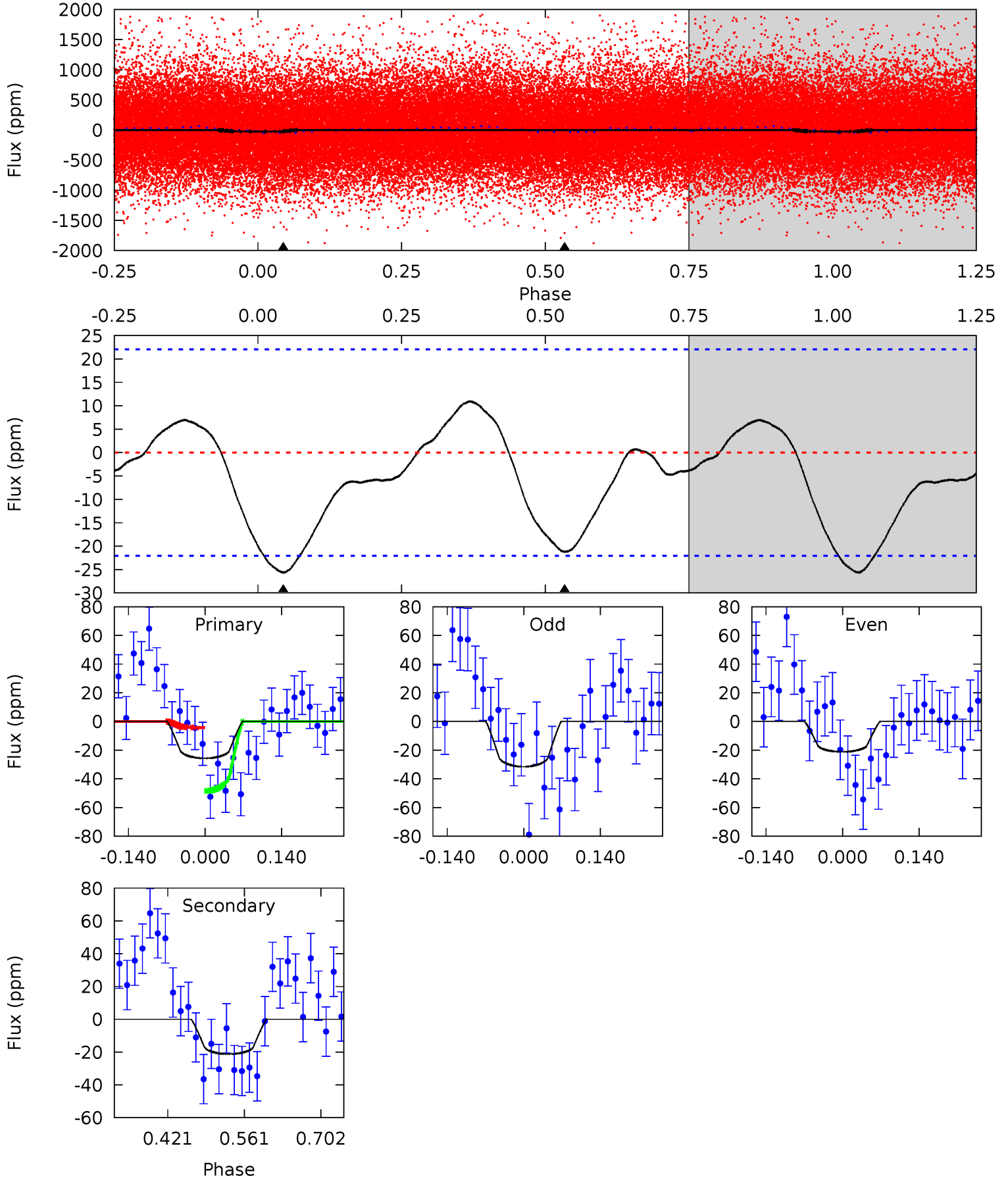
TCE 005219207-01 P= 0.832354 Days $T_0=132.103237$ (BKJD)



DV Model-Shift Uniqueness Test

005219207-01, P = 0.832308 Days, E = 131.290865 Days

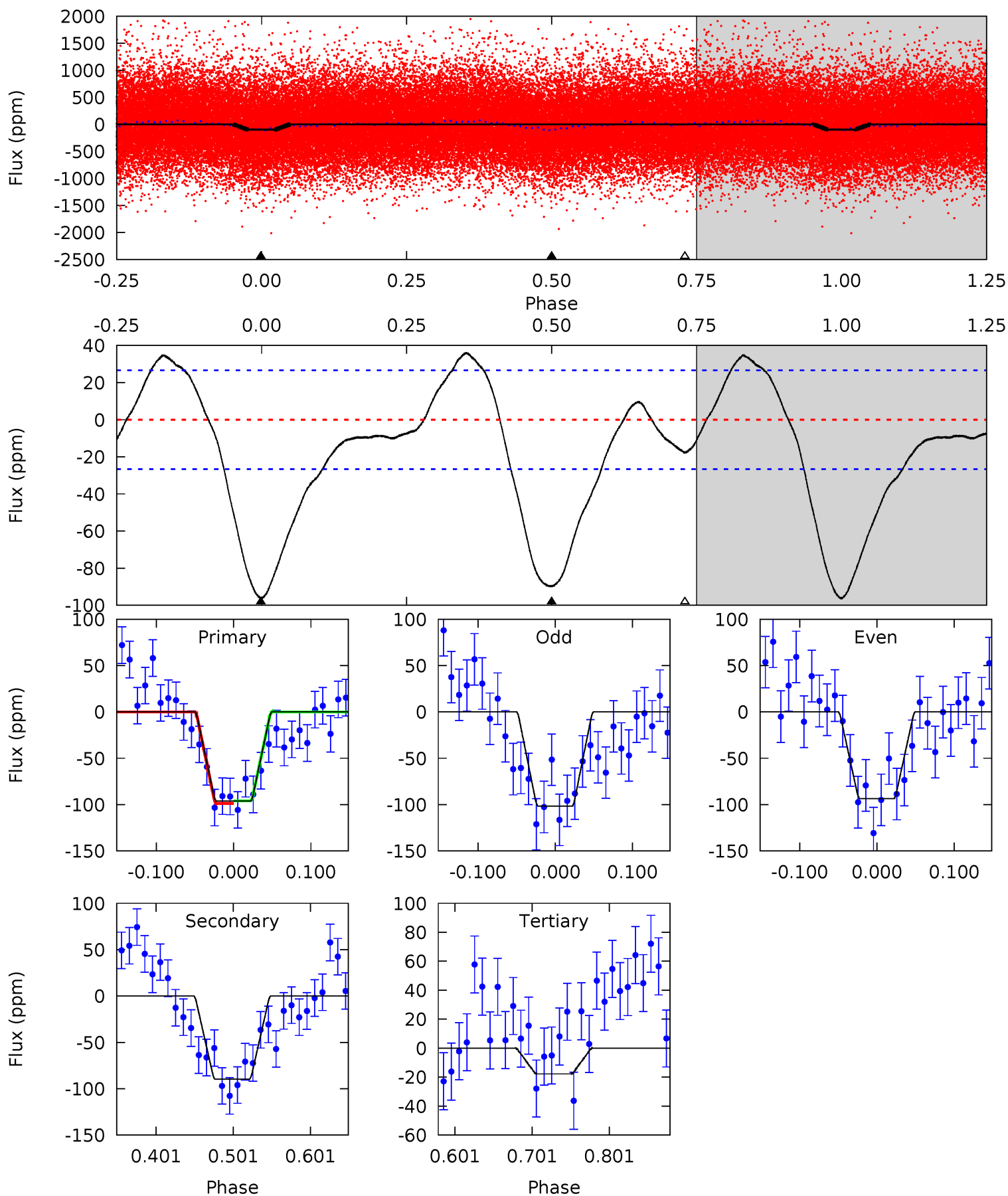
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.23	4.32	0	0	4.49	1.47	1.09	5.23	5.23	4.32	4.32	1.06	0.83	0.30	4.52



Alt Model-Shift Uniqueness Test

005219207-01, P = 0.832354 Days, E = 131.270883 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.5	15.4	3.05	0	4.56	1.64	3.02	13.4	16.5	12.3	15.4	0.69	0.91	0.27	0.23



Stellar Parameters For KIC 005219207

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5997^{+179}_{-197}	$4.549^{+0.037}_{-0.200}$	$-0.380^{+0.300}_{-0.300}$	$0.853^{+0.264}_{-0.066}$	$0.939^{+0.109}_{-0.120}$	$2.130^{+0.425}_{-1.096}$
	+3%/-3%	+1%/-4%	+79%/-79%	+31%/-8%	+12%/-13%	+20%/-51%
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 005219207-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-21 ± 5	$0.73^{+0.59}_{-0.47}$	2681^{+171}_{-126}	4780^{+3401}_{-1039}	$6.031^{+46.653}_{-4.206}$
Alt.	-90 ± 6	$1.06^{+0.68}_{-0.60}$	2681^{+175}_{-133}	5532^{+3306}_{-1027}	12^{+53}_{-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 $A_{obs} \gg 1.0$

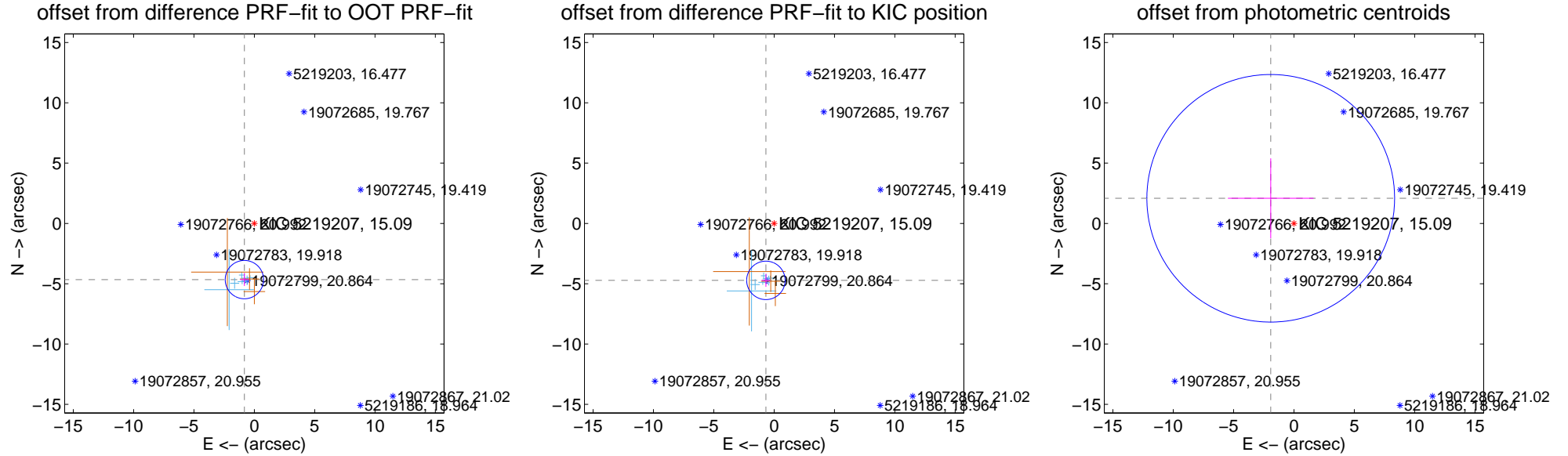
DV Centroid Data

Supplemental centroid analysis for 005219207-01. Kepler magnitude: 15.09. Transit SNR 4.05

There are 8 quarters with good PRF difference image offsets

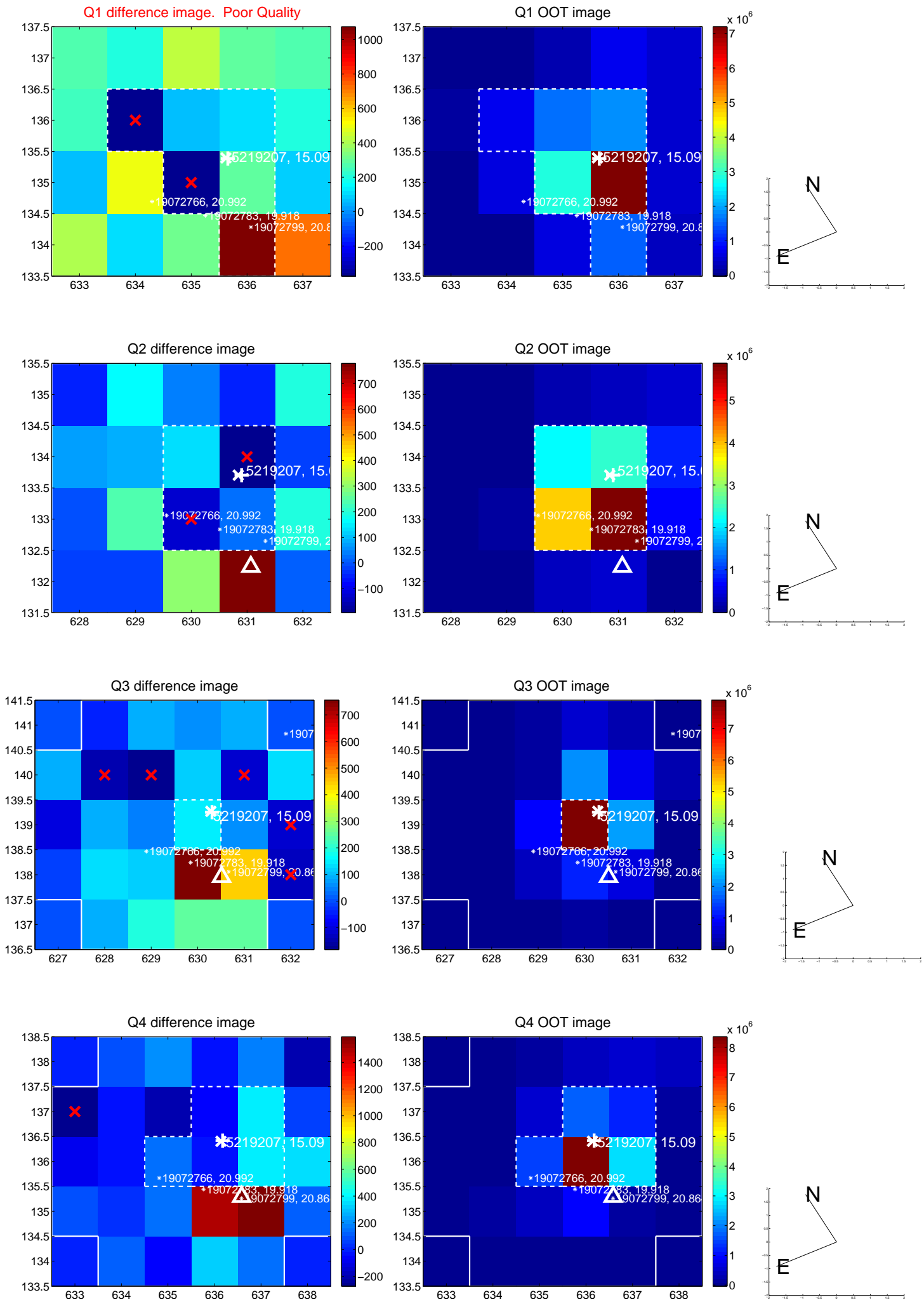
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.729 \pm 0.530	8.93	0.822 \pm 0.361	-4.657 \pm 0.534
PRF-fit source offset from KIC position	4.769 \pm 0.531	8.98	0.682 \pm 0.361	-4.720 \pm 0.534
photometric centroid source offset	2.84 \pm 3.42	0.83	1.92 \pm 3.55	2.08 \pm 3.31

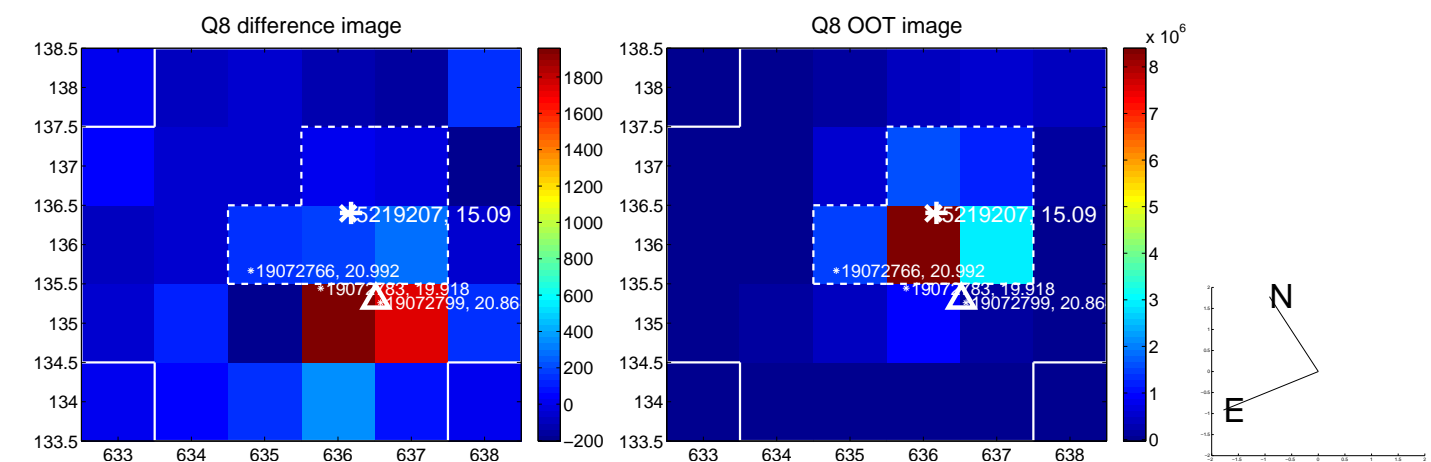
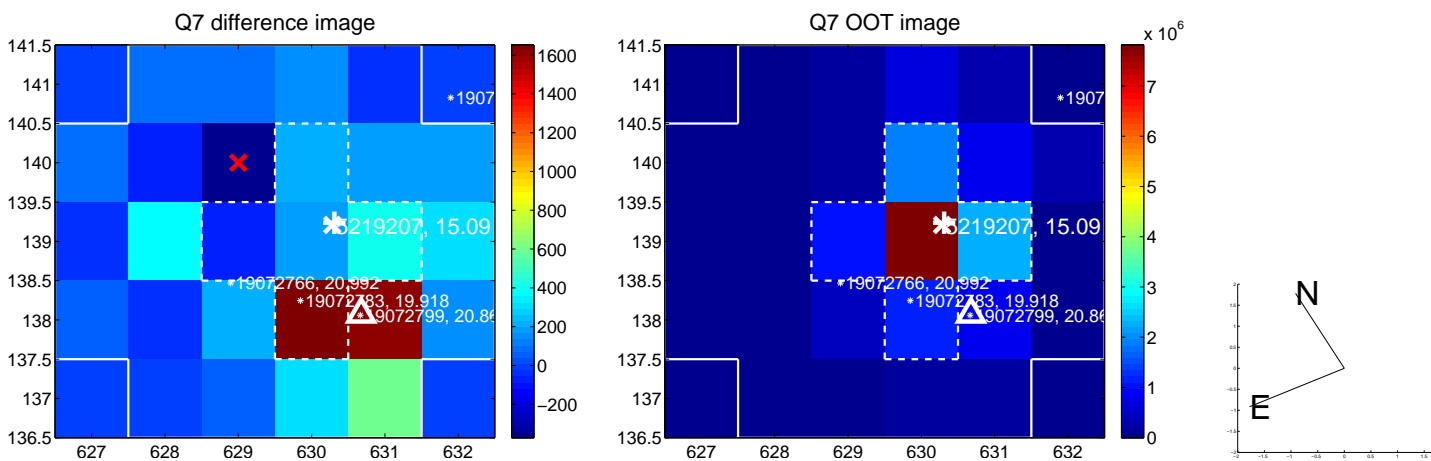
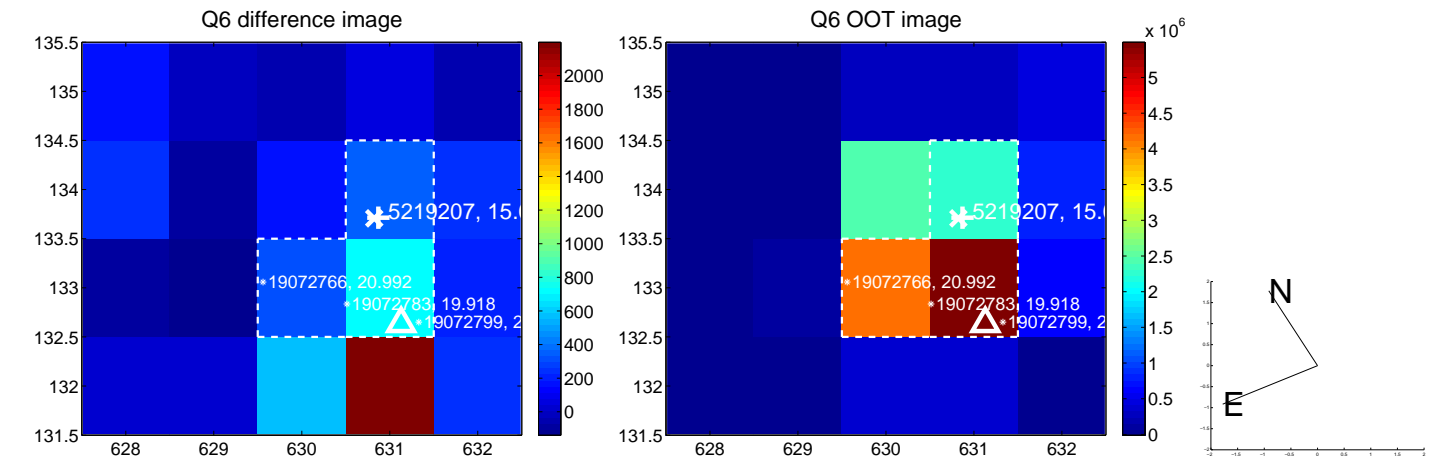
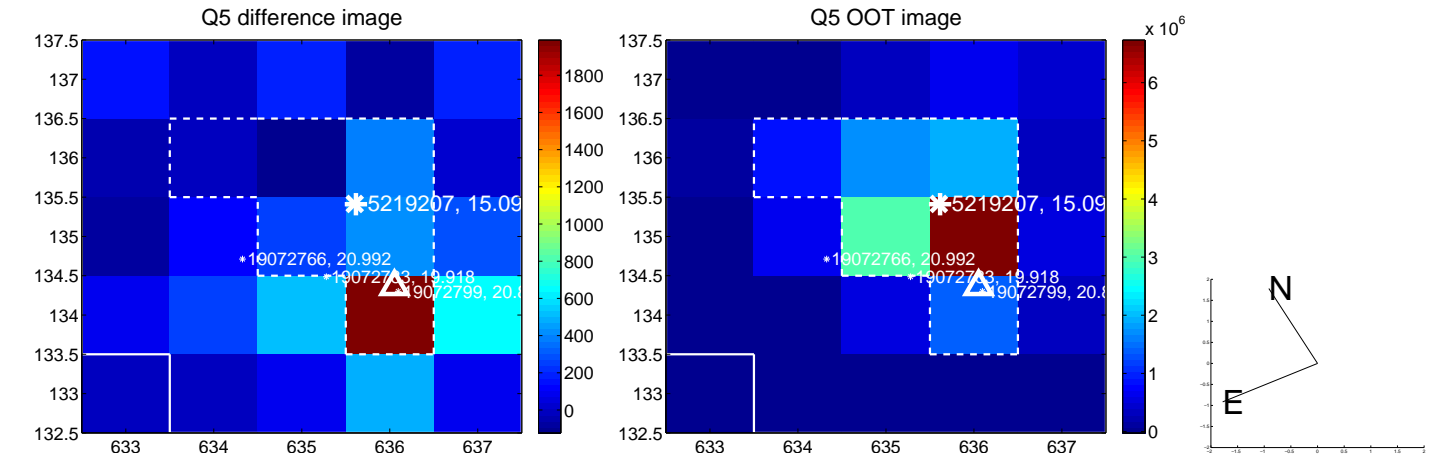


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

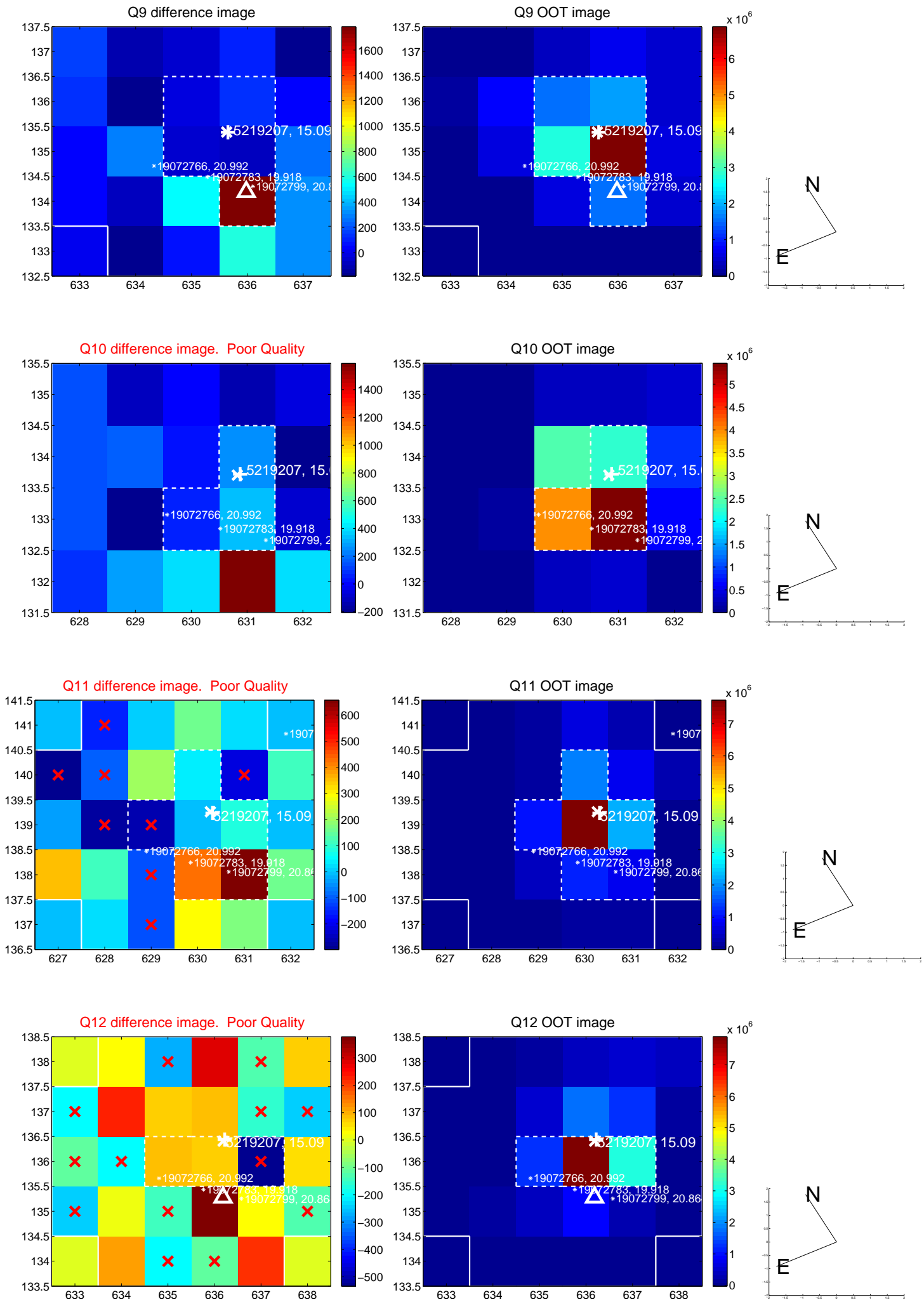
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



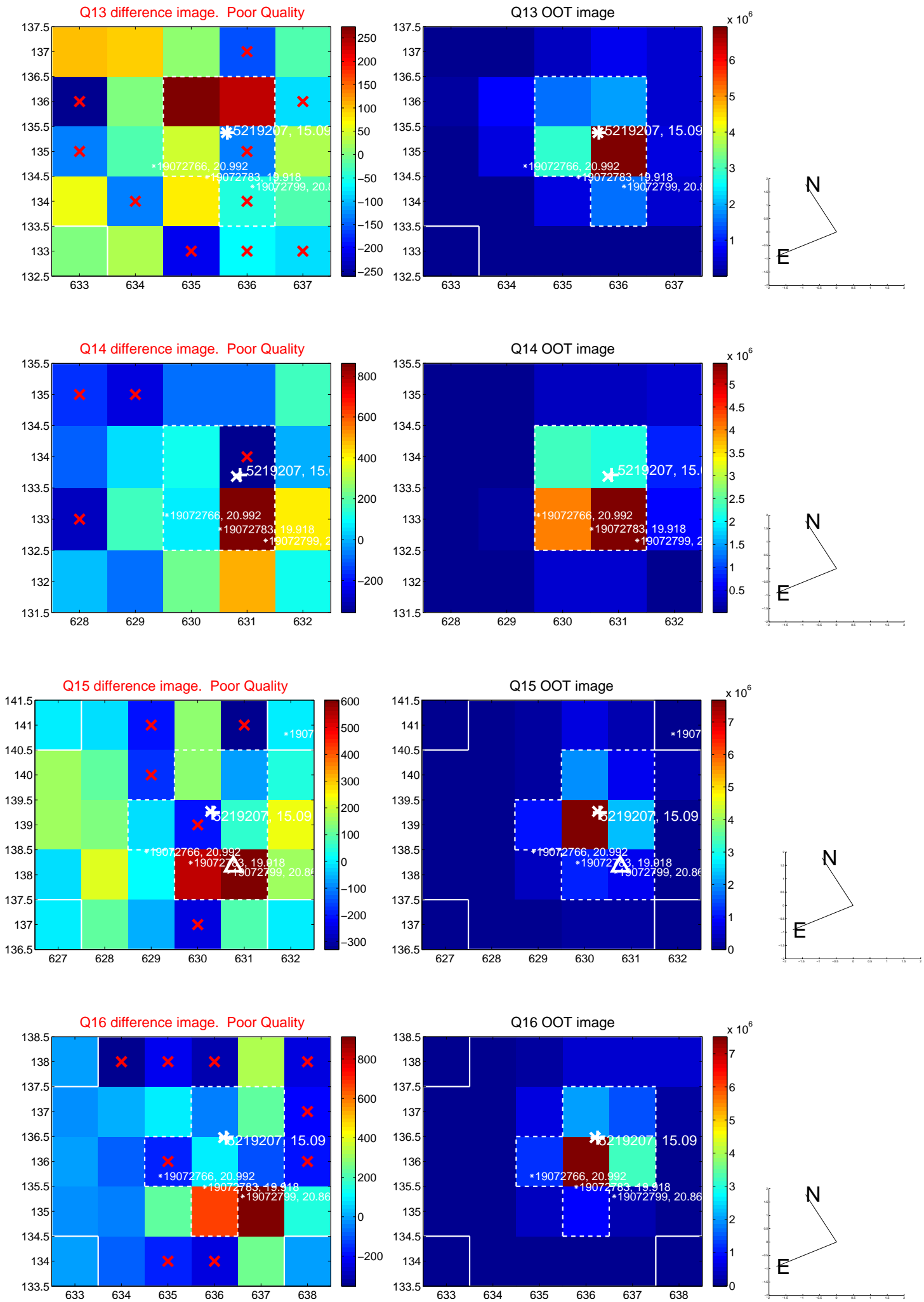
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



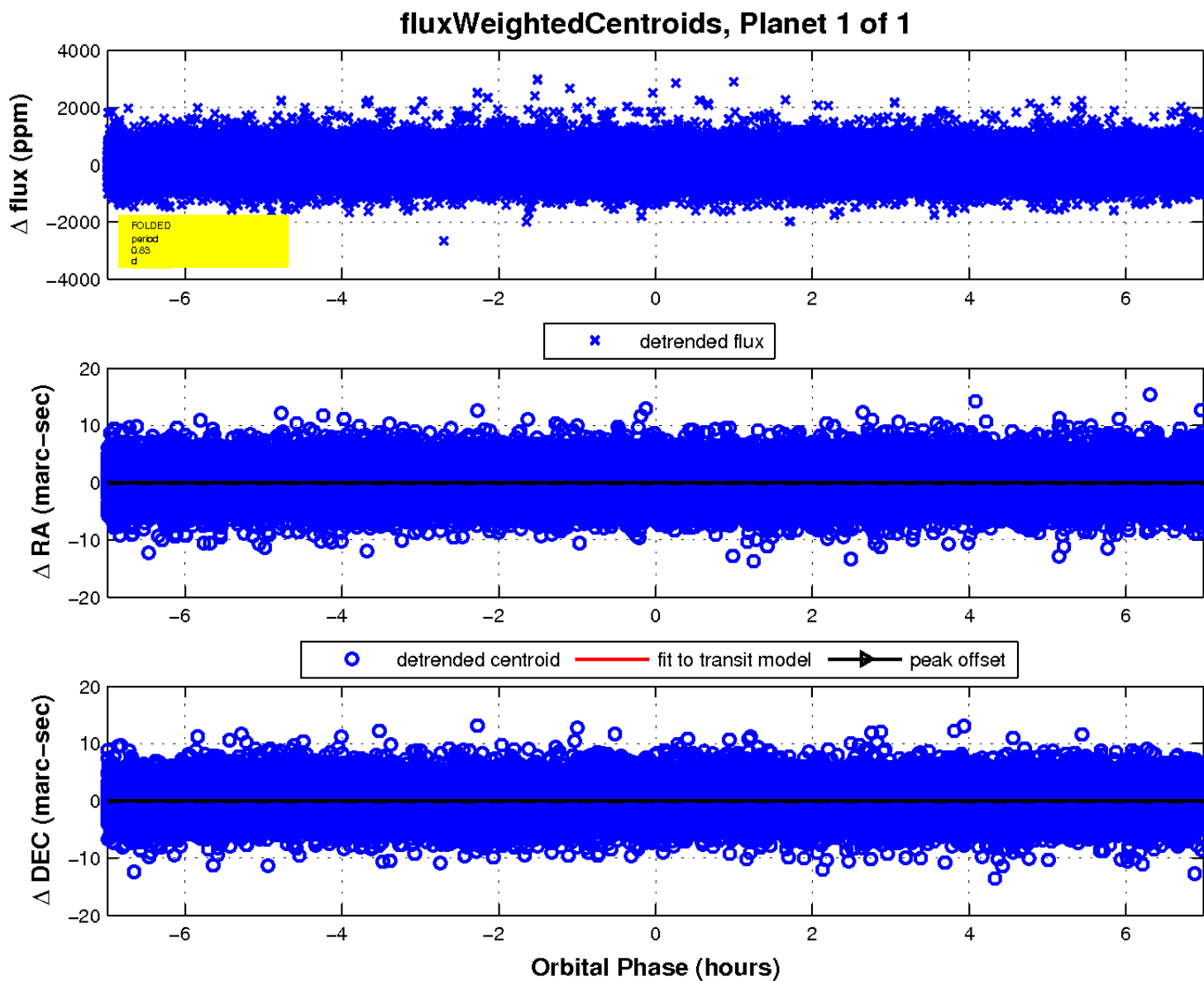
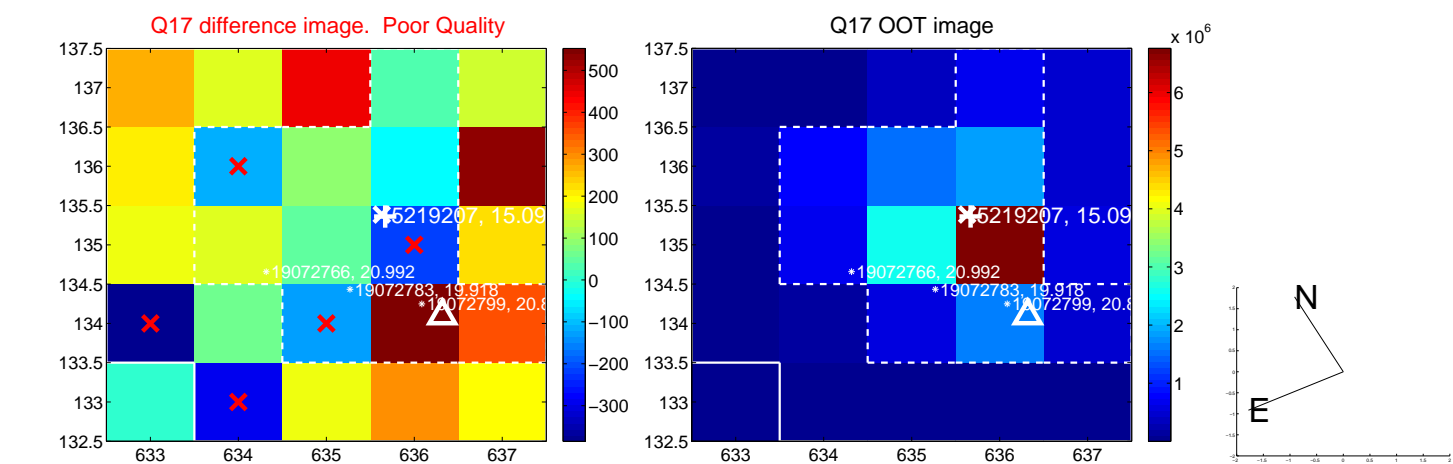
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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.



UKIRT Image

Declination

