

KIC 007211309

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})
007211309-01	OBS	No	1.751258	131.514399	636.8	6.000	8.4	-1.0	0.79	5564	1.96	718.71

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007211309-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_NOFITS

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

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

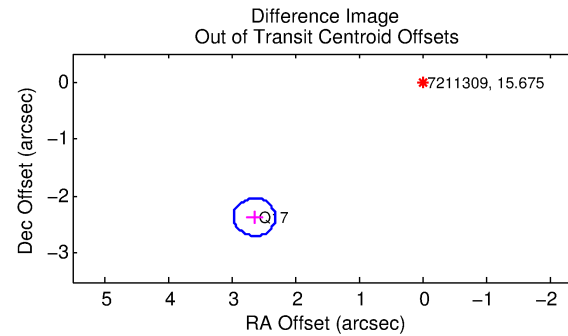
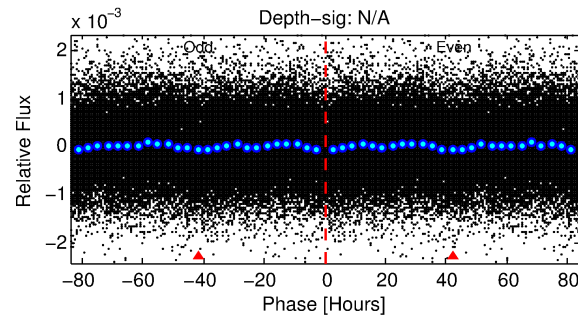
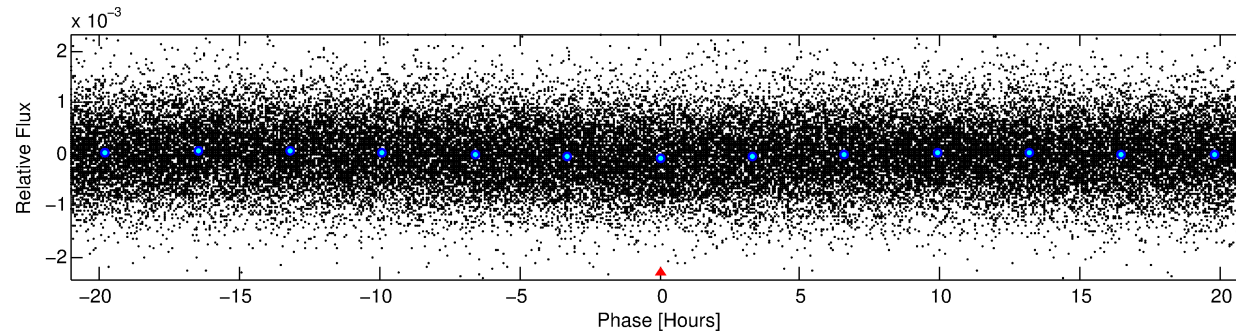
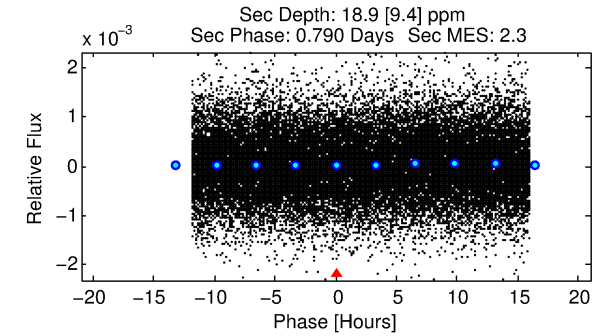
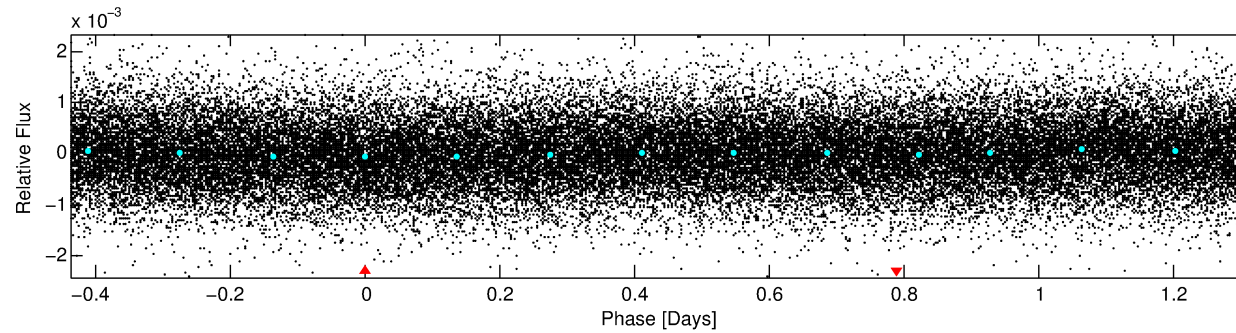
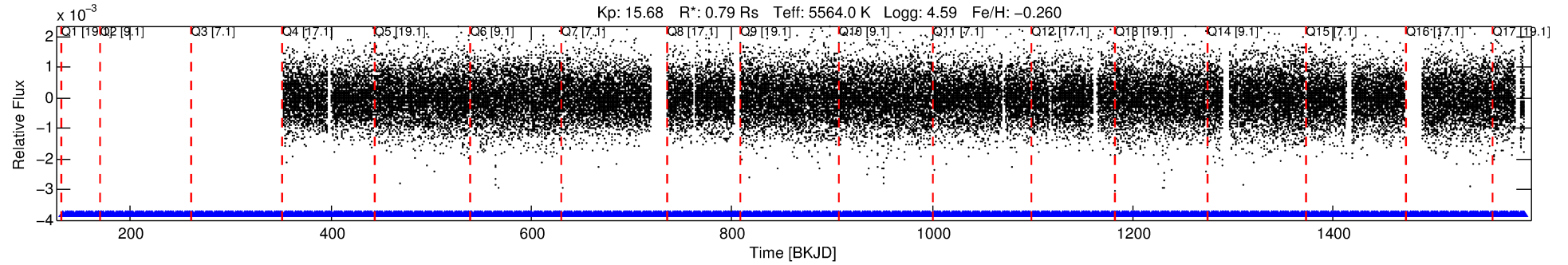
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007211309-01

No Significant Match Found

DV One-Page Summary

KIC: 7211309 Candidate: 1 of 1 Period: 1.751 d



TPS TCE Results:

Period = 1.75126 d
Epoch = 131.5144 BKJD

DV fit results are unavailable

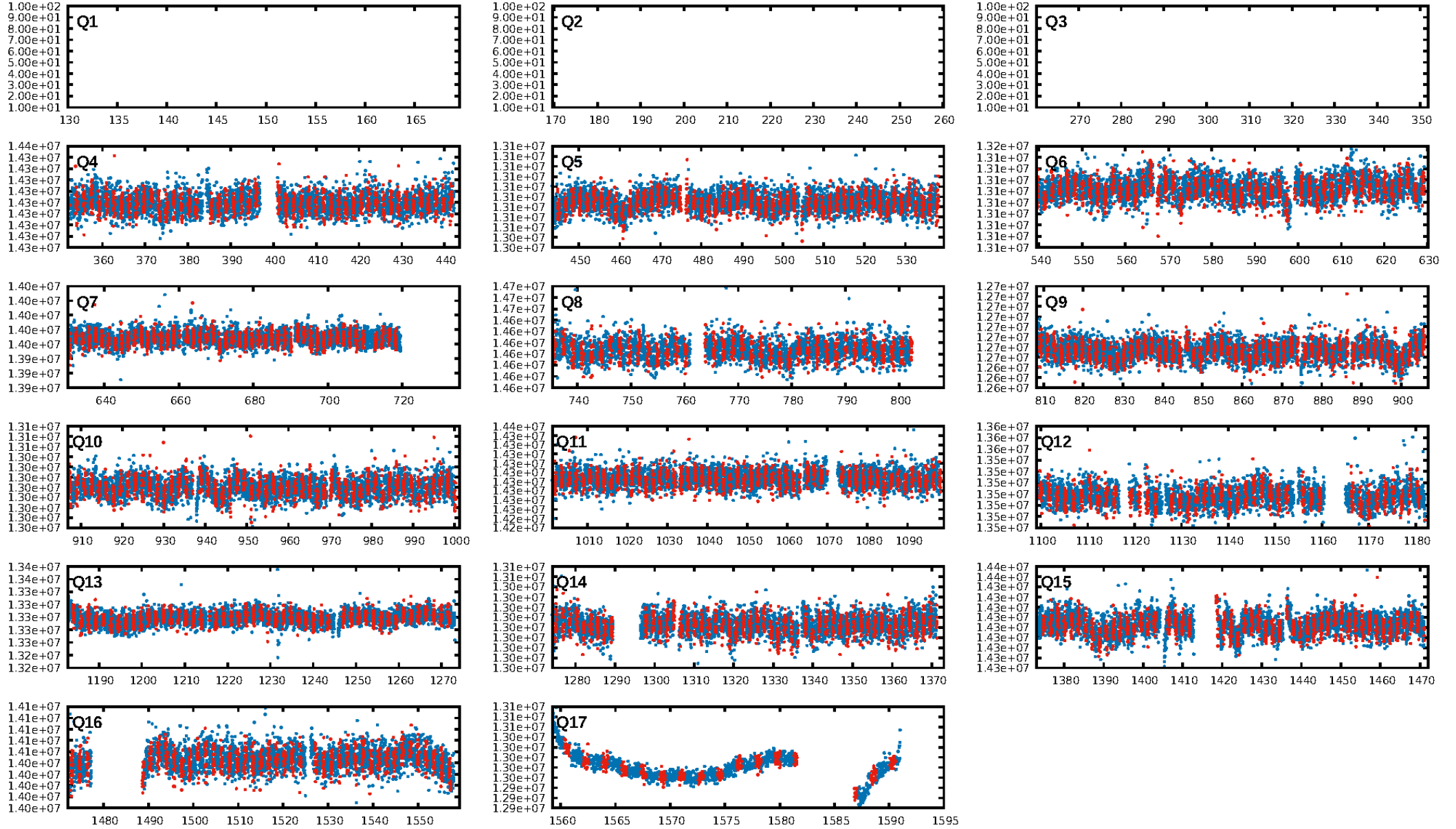
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: 2.84e-14
RollingBand-fgt: 1.00 [651/651]
GhostDiagnostic-chr: -40.83
Centroid-sig: 0.0%
Centroid-so: 1.646 arcsec [5.38 σ]
OotOffset-rm: 3.542 arcsec [32.39 σ]
KicOffset-rm: 3.063 arcsec [28.15 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [14/14]

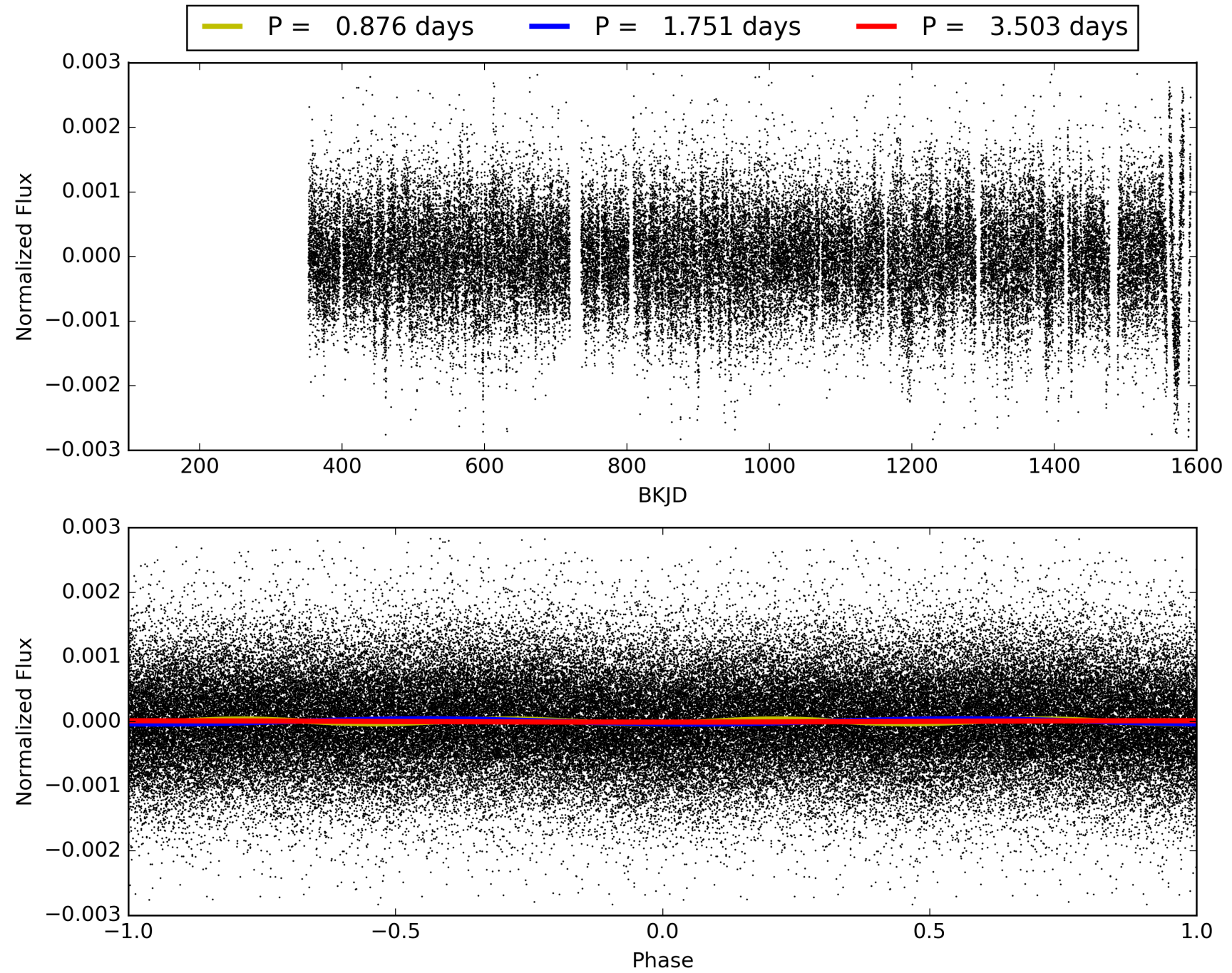
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 12:53:50 Z

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

TCE 007211309-01, PDC Light Curves

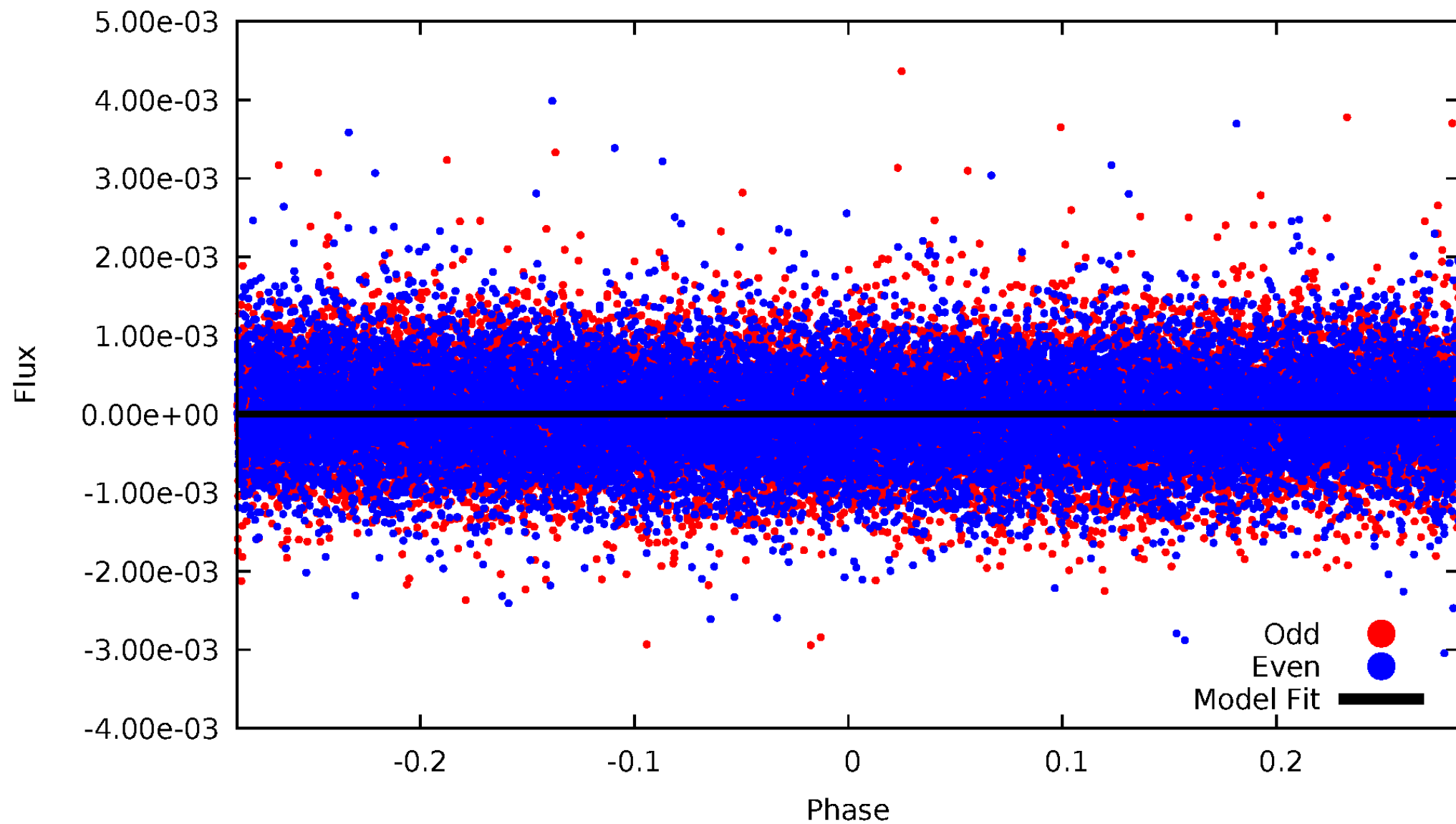


TCE 007211309-01



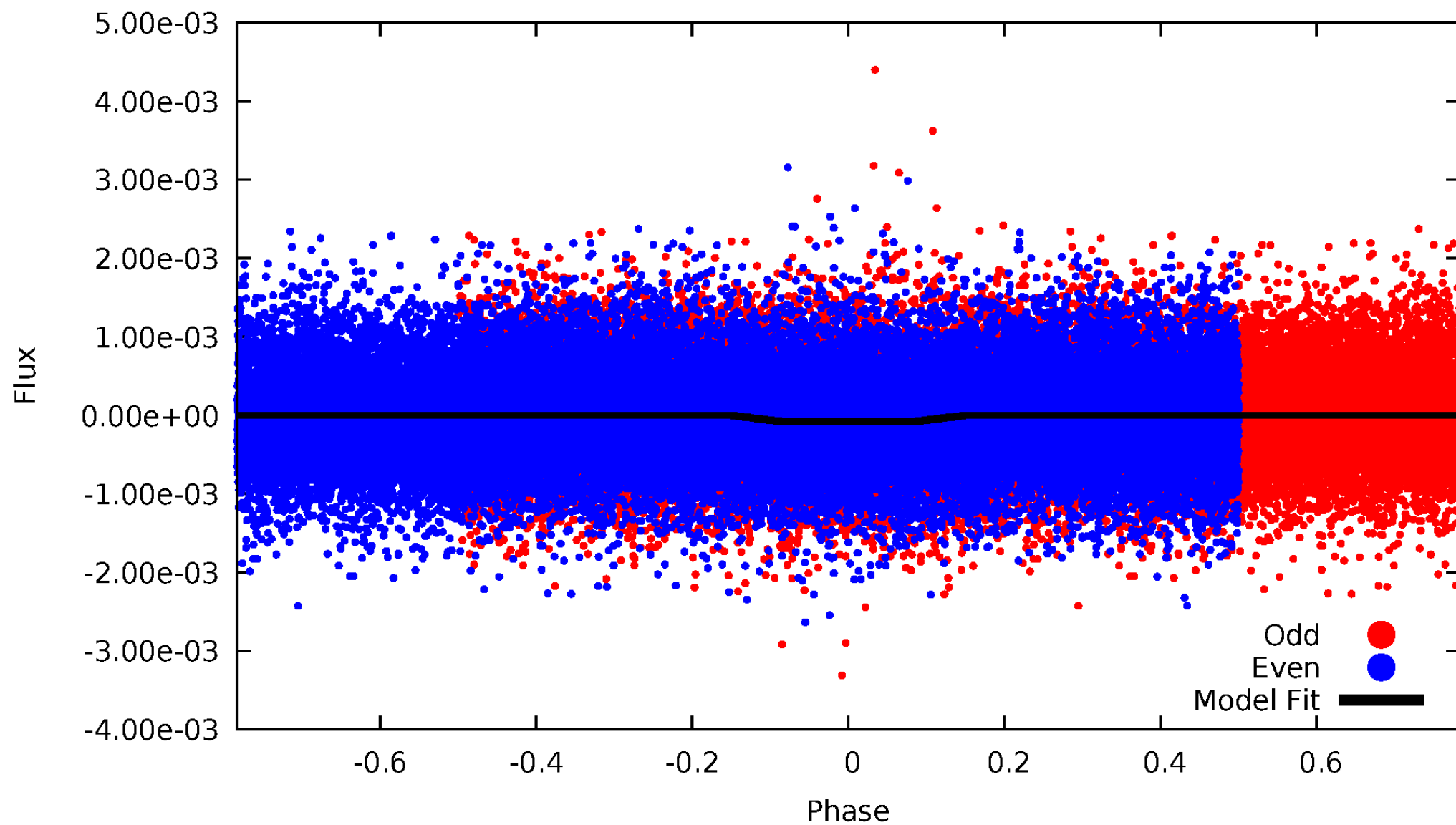
DV Odd/Even

TCE 007211309-01

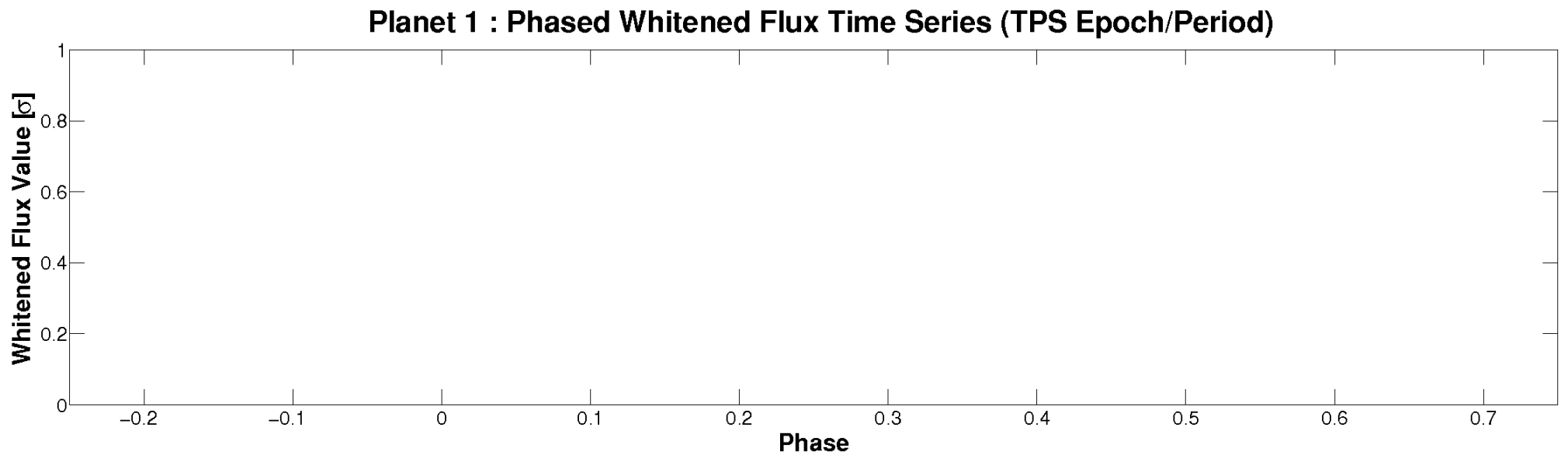
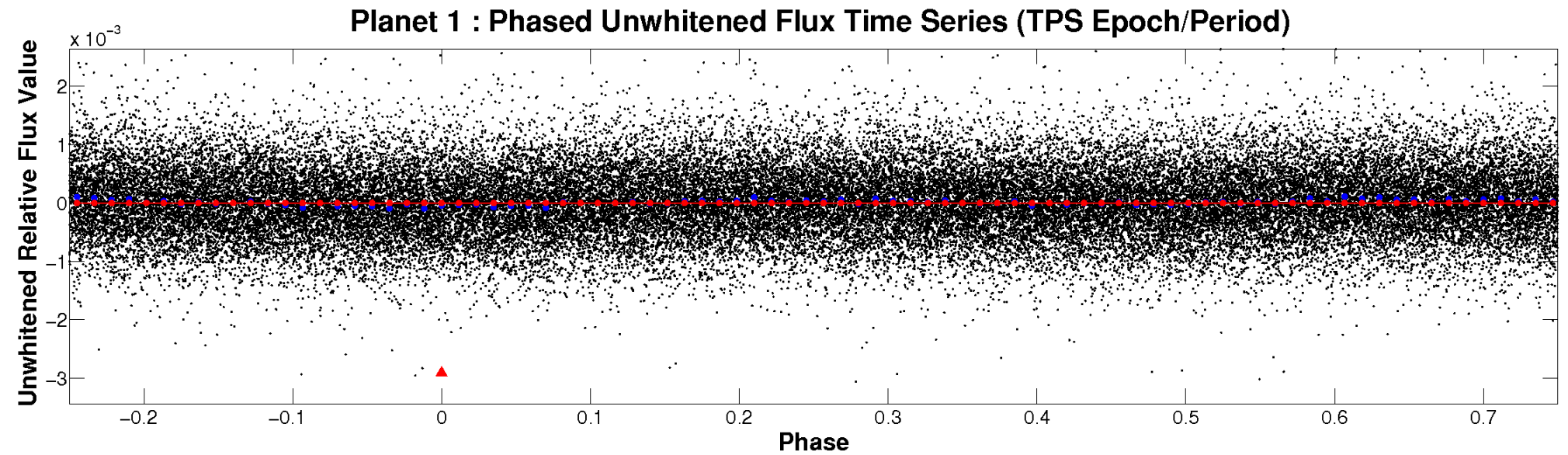


ALT Odd/Even

TCE 007211309-01

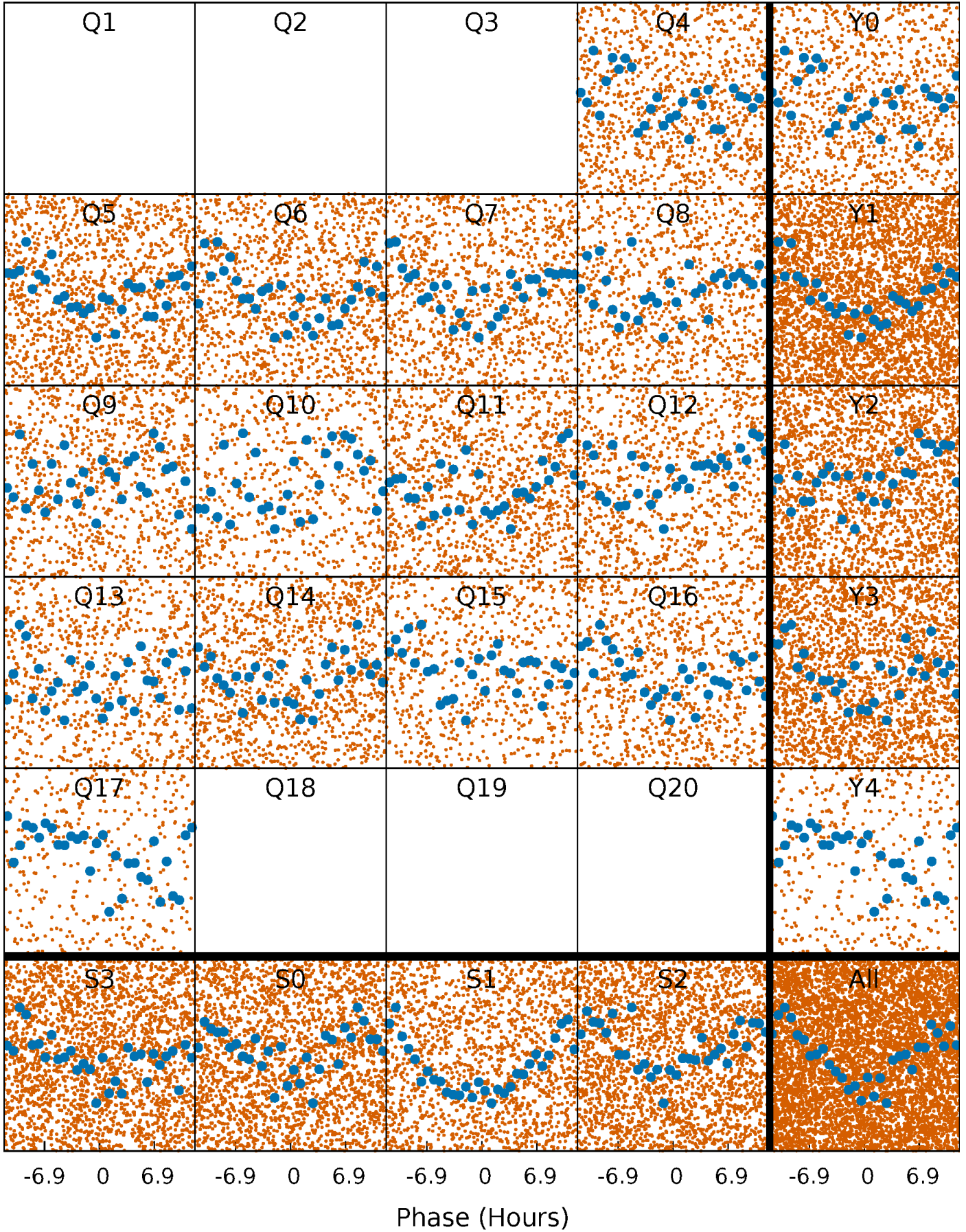


Non-Whitened Vs. Whitened Light Curve



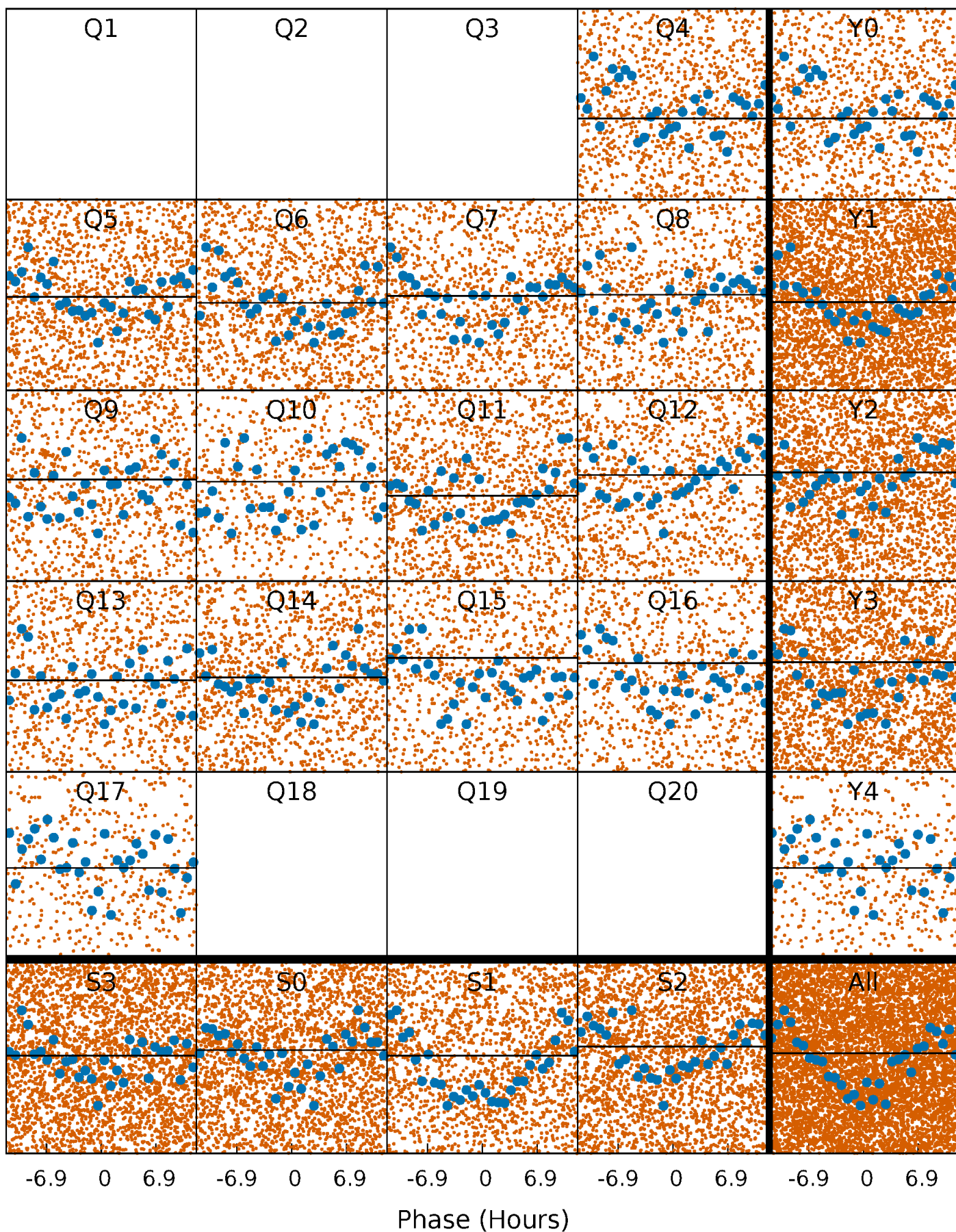
PDC Quarter-Phased Transit Curves

TCE 007211309-01 P= 1.751258 Days $T_0=131.514399$ (BKJD)



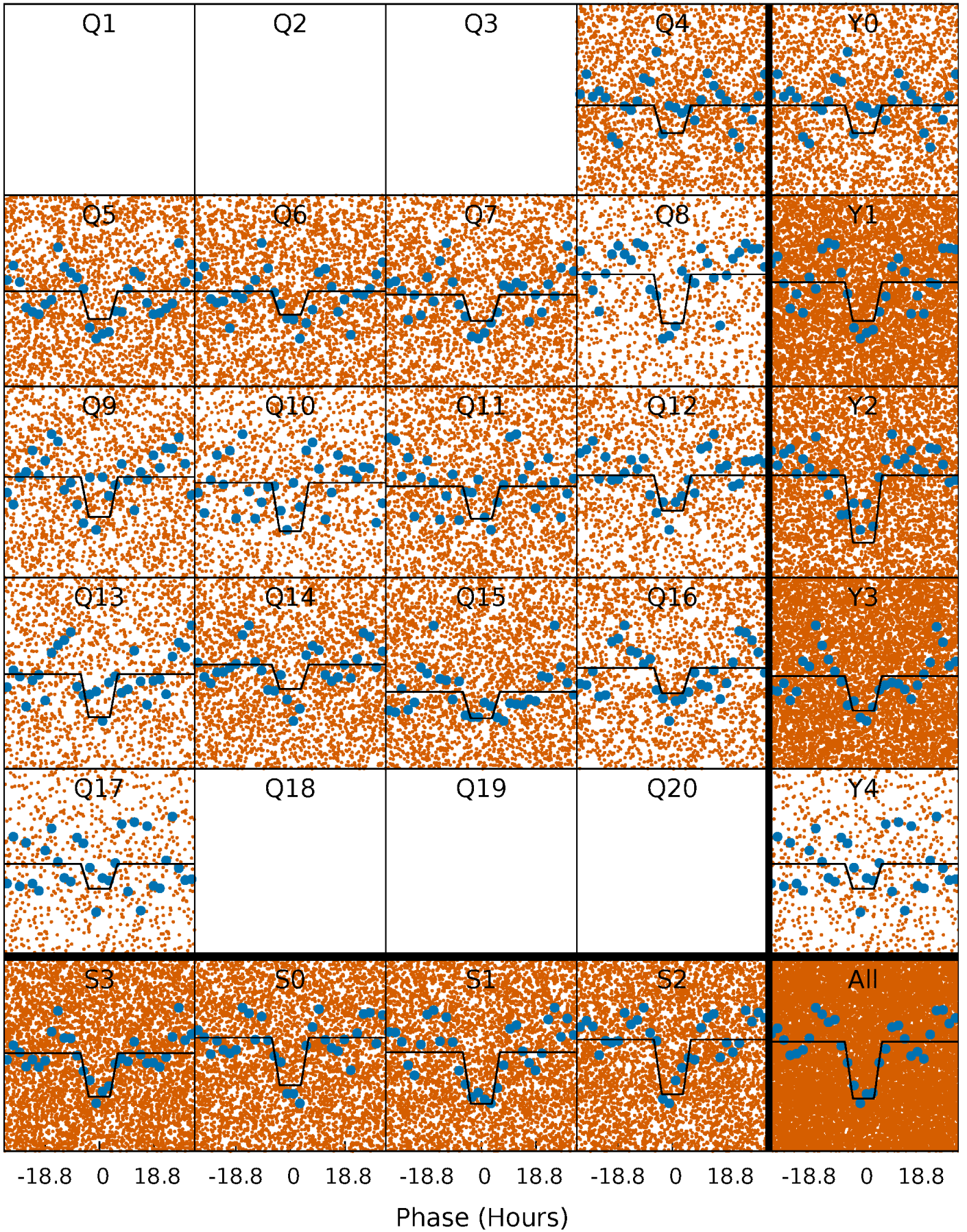
DV Quarter-Phased Transit Curves

TCE 007211309-01 P= 1.751258 Days $T_0=131.514399$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

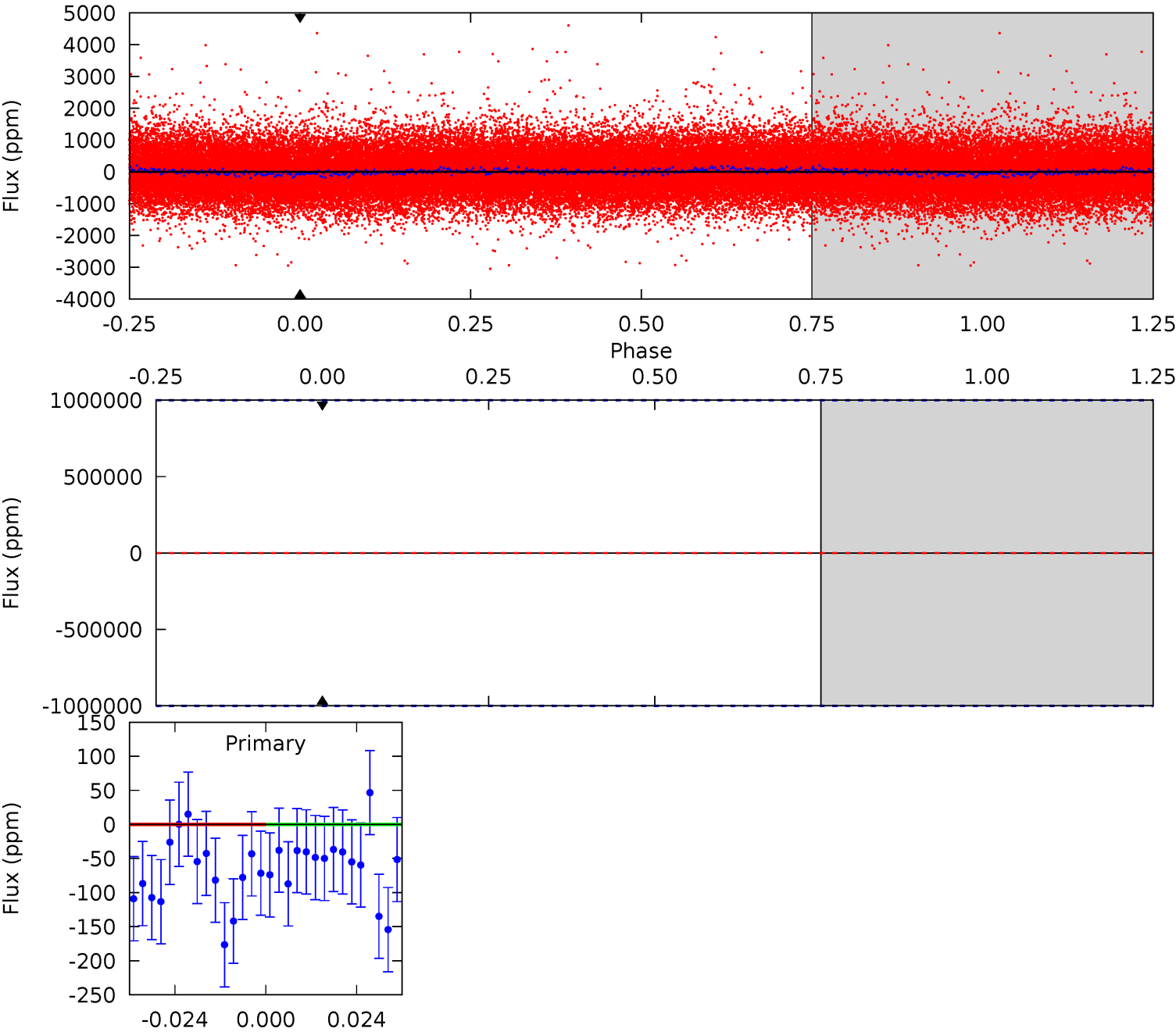
TCE 007211309-01 P= 1.751258 Days $T_0=133.249485$ (BKJD)



DV Model-Shift Uniqueness Test

007211309-01, P = 1.751258 Days, E = 131.514399 Days

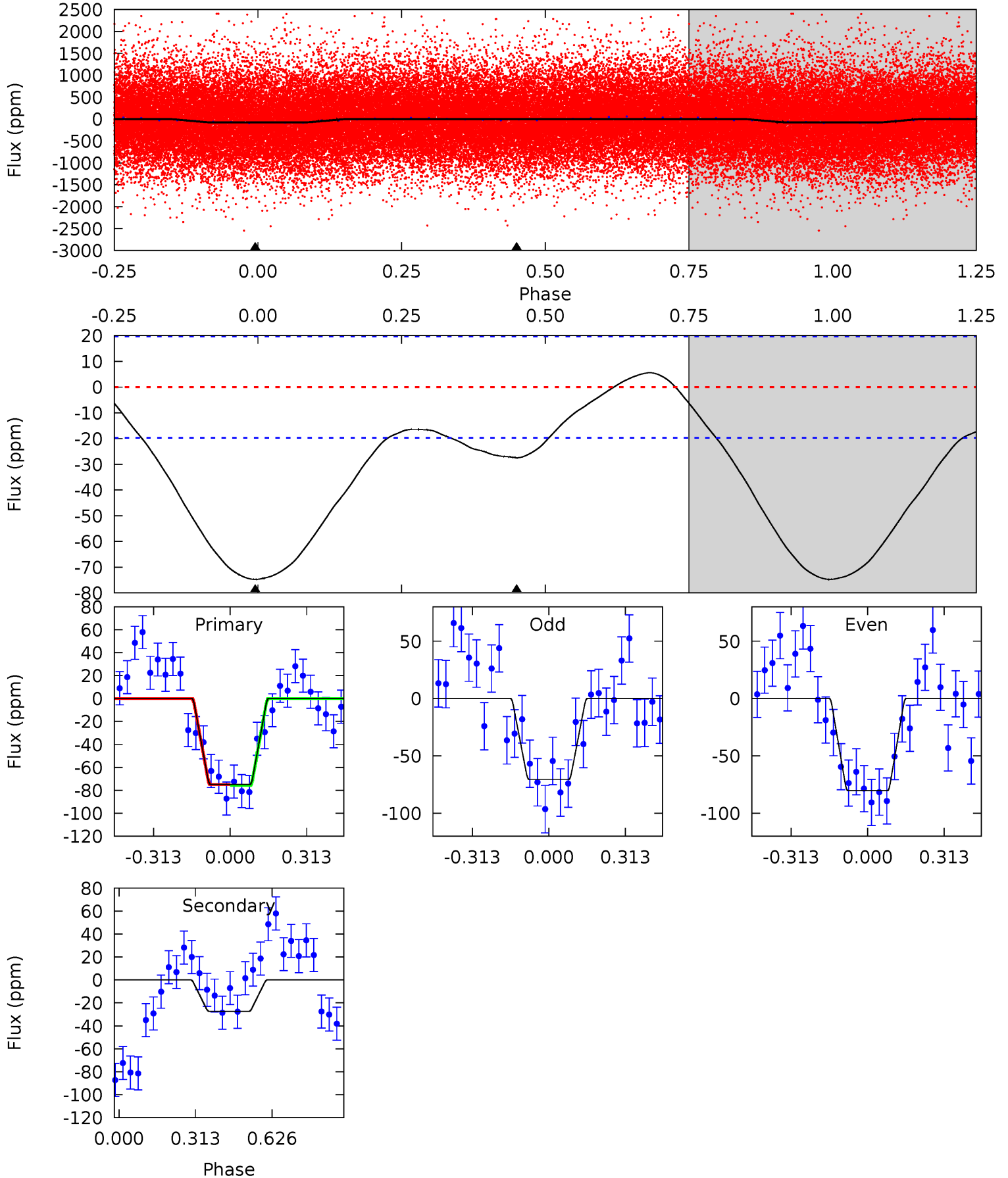
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007211309-01, P = 1.751258 Days, E = 133.249485 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.4	6.01	0	0	4.32	1.01	1.62	16.4	16.4	6.01	6.01	1.06	1.08	0.07	0.10



Stellar Parameters For KIC 007211309

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5564^{+183}_{-200}	$4.587^{+0.036}_{-0.144}$	$-0.260^{+0.300}_{-0.300}$	$0.785^{+0.173}_{-0.062}$	$0.878^{+0.080}_{-0.110}$	$2.558^{+0.497}_{-1.054}$
	+3%/-4%	+1%/-3%	+115%/-115%	+22%/-8%	+9%/-13%	+19%/-41%
Source	KIC0	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 007211309-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$7.03^{+6.70}_{-4.99}$	1886^{+103}_{-88}	3911^{+15942}_{-20464}	10^{+1683}_{-1200}
Alt.	-27 ± 5	$6.67^{+6.60}_{-4.73}$	1877^{+95}_{-78}	-1987^{+5171}_{-366}	$0.243^{+2.504}_{-0.182}$

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

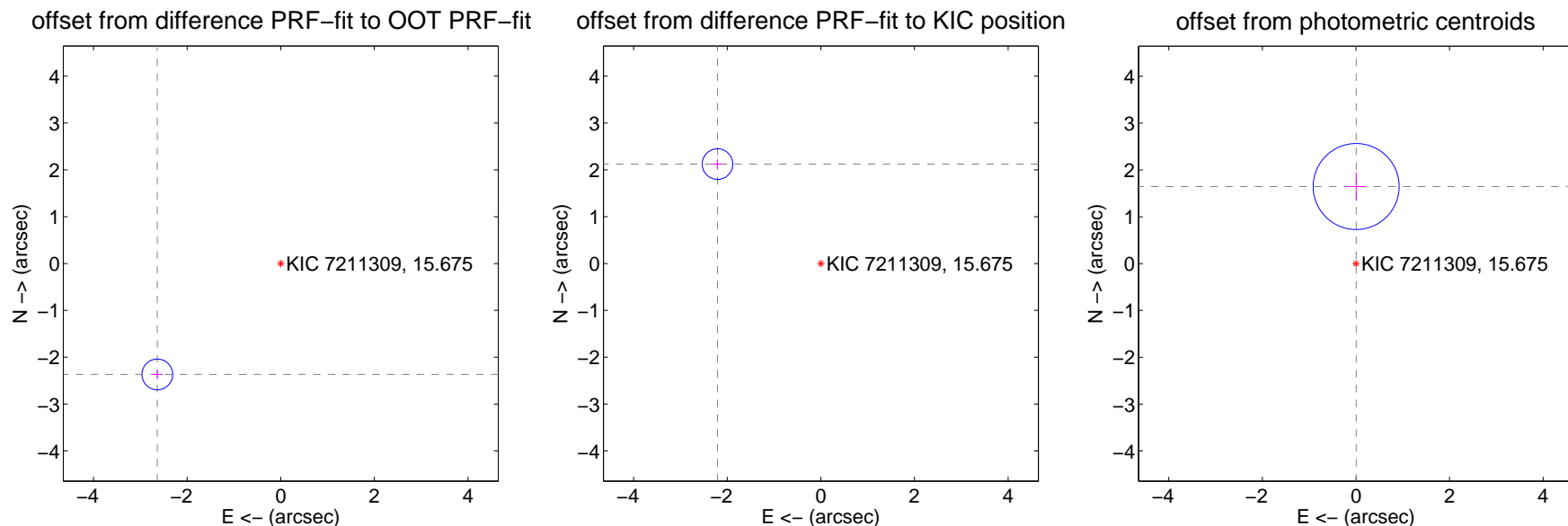
DV Centroid Data

Supplemental centroid analysis for 007211309-01. Kepler magnitude: 15.68. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

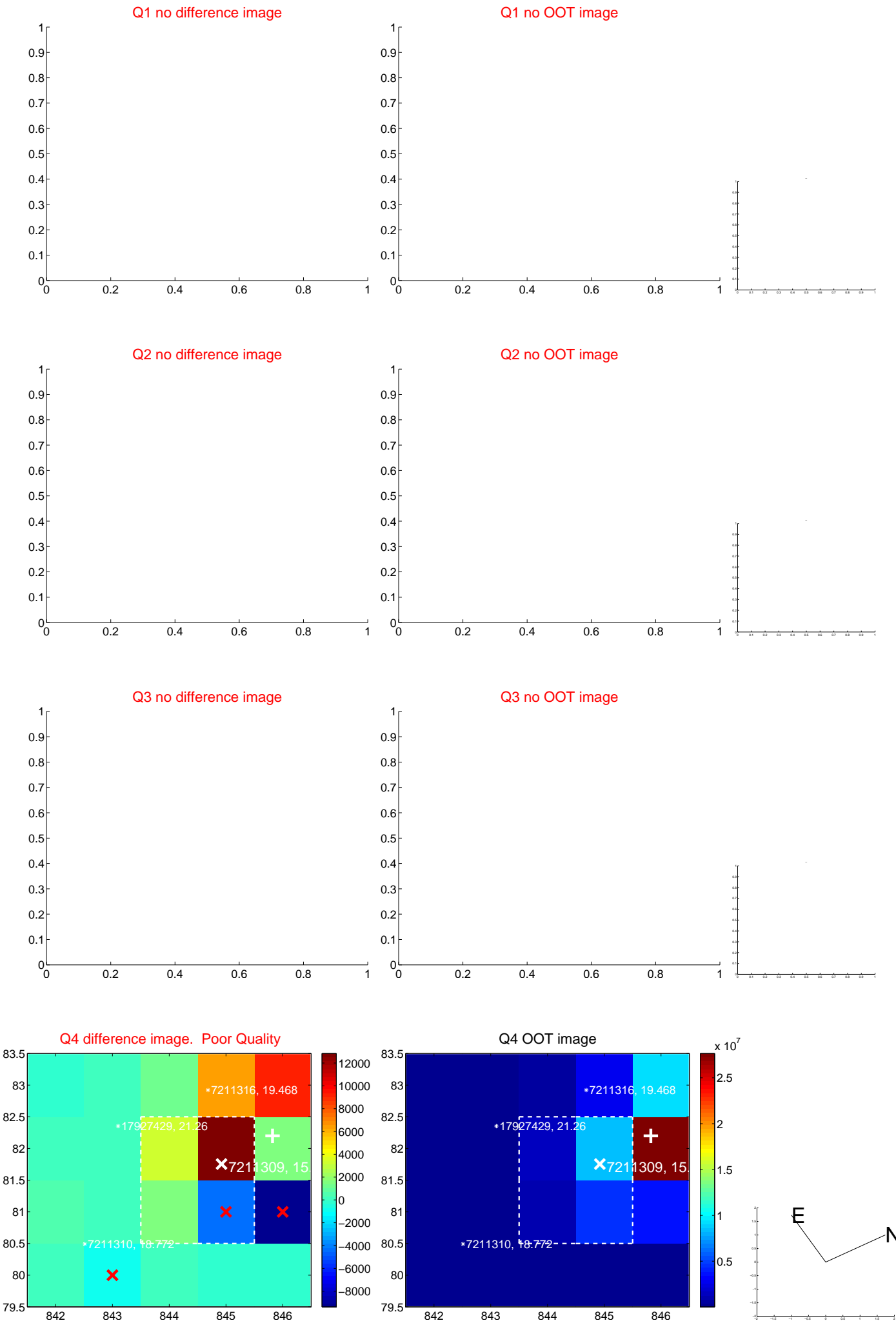
The OOT PRF centroid is offset from the target star catalog position by about 4.51 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.542 ± 0.109	32.39	2.636 ± 0.116	-2.367 ± 0.100
PRF-fit source offset from KIC position	3.063 ± 0.109	28.15	2.208 ± 0.116	2.123 ± 0.100
photometric centroid source offset	1.65 ± 0.31	5.38	-0.00 ± 0.21	1.65 ± 0.31

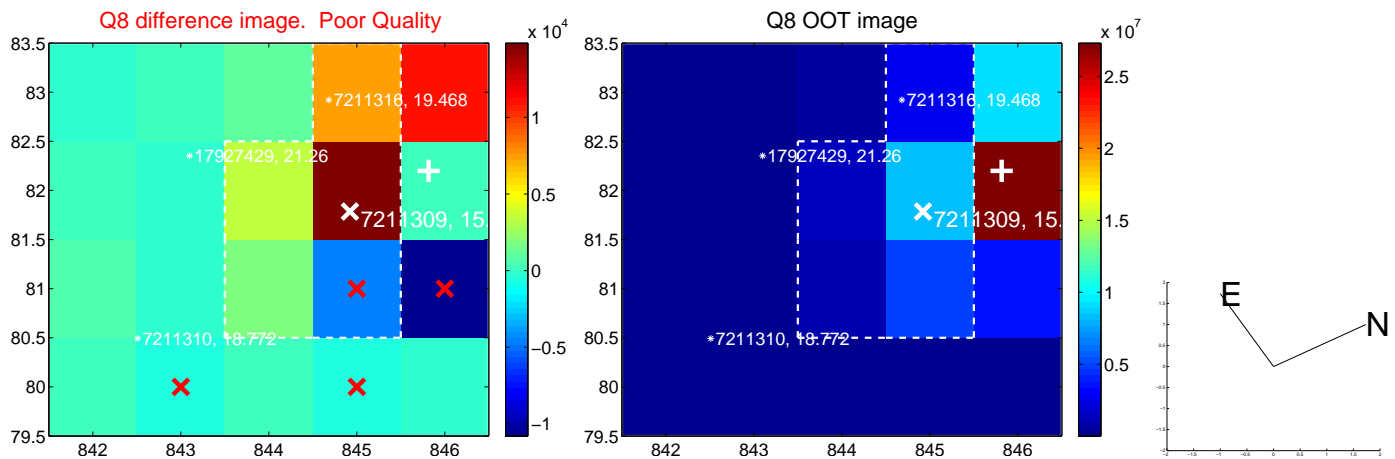
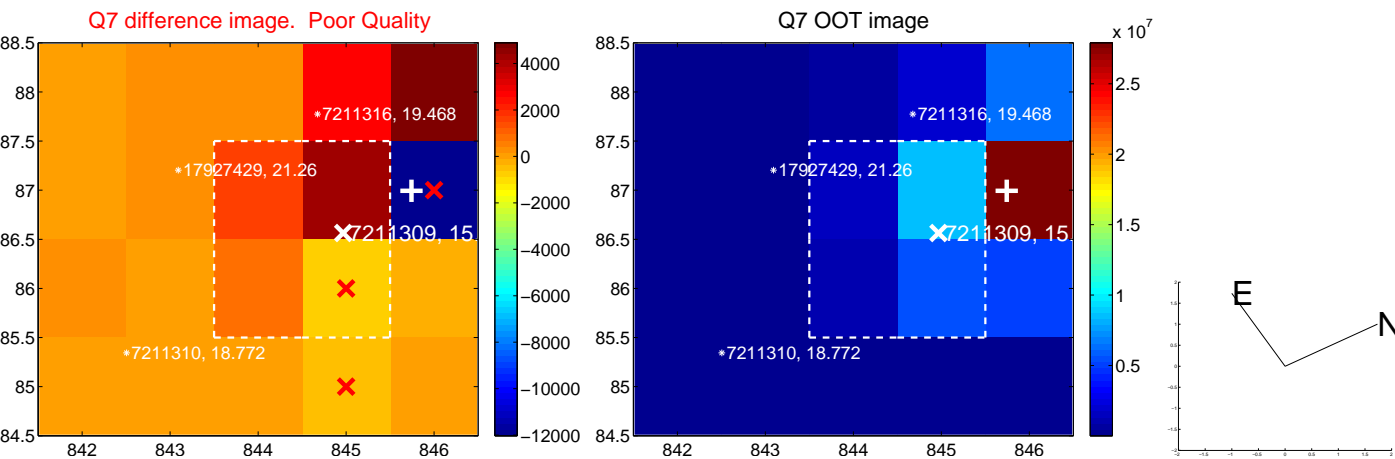
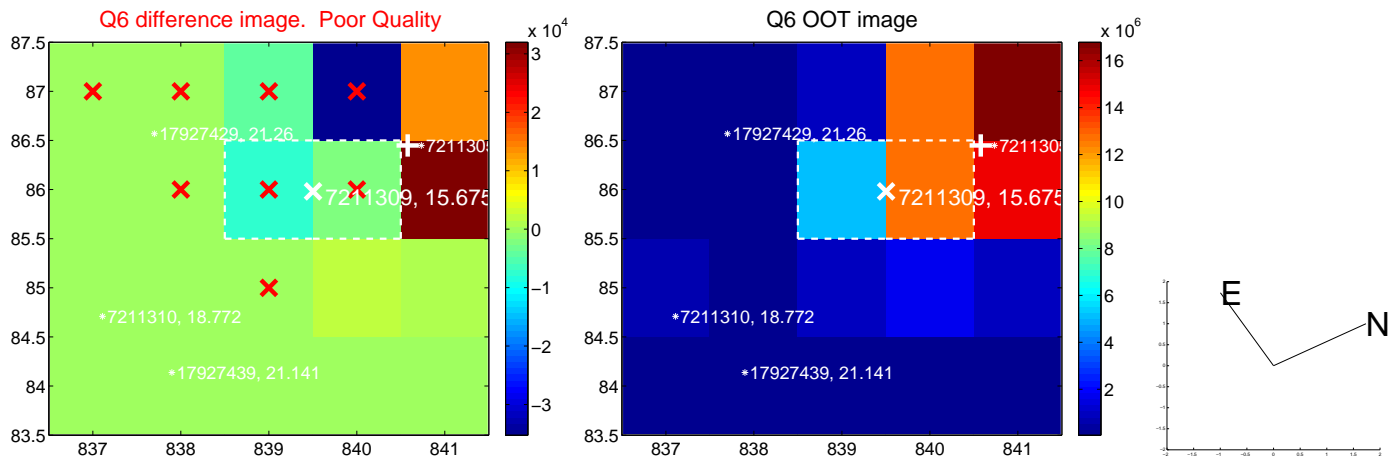
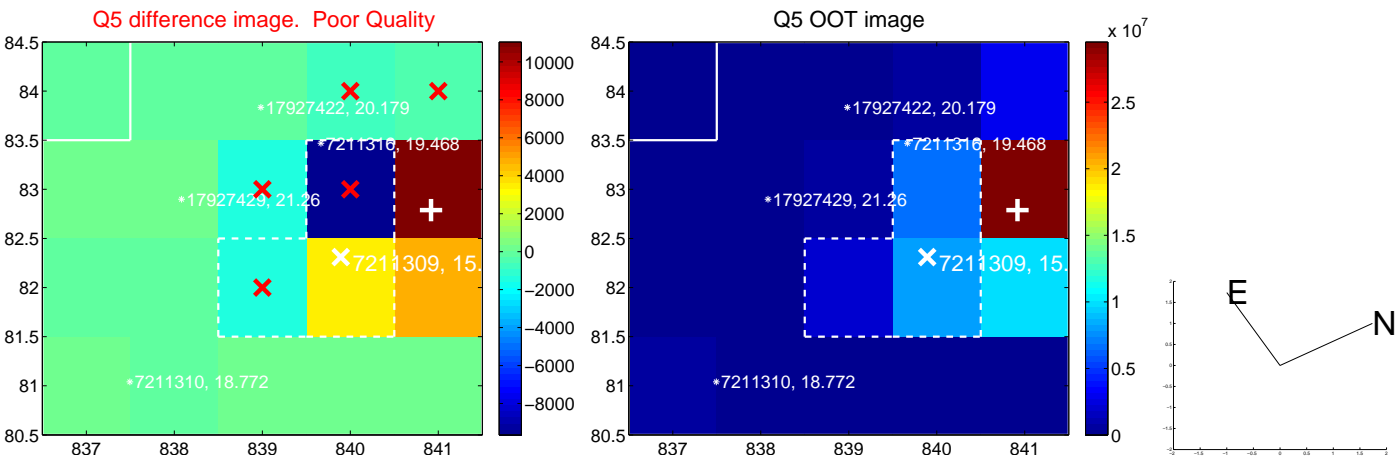


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

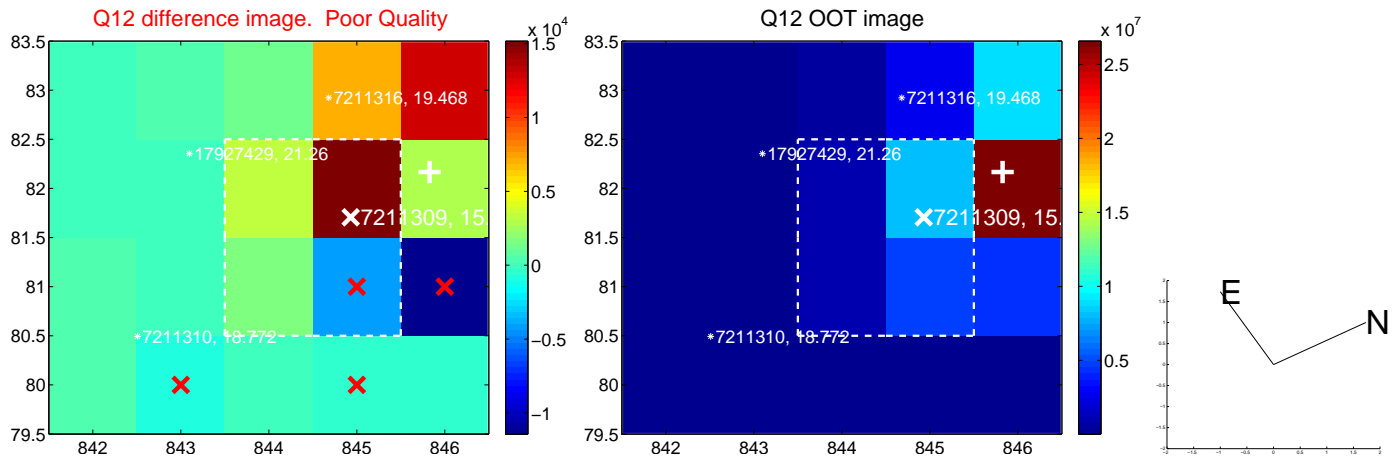
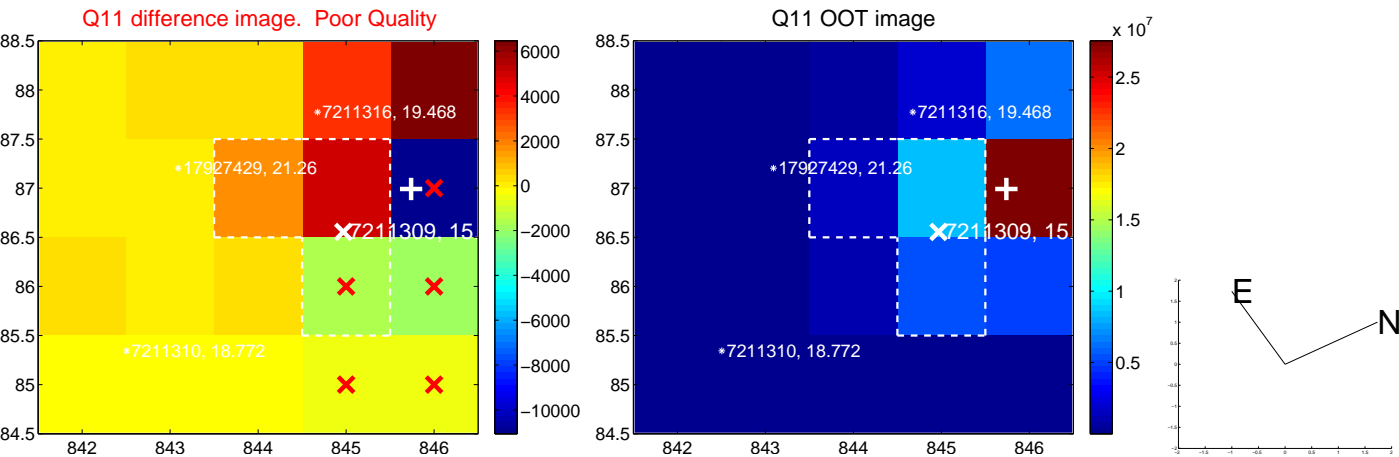
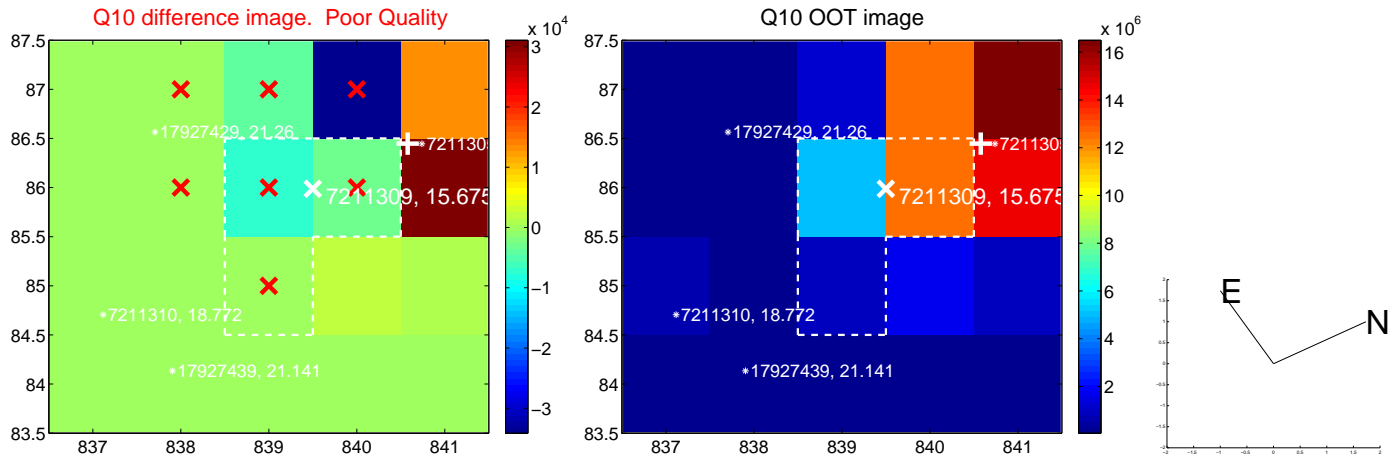
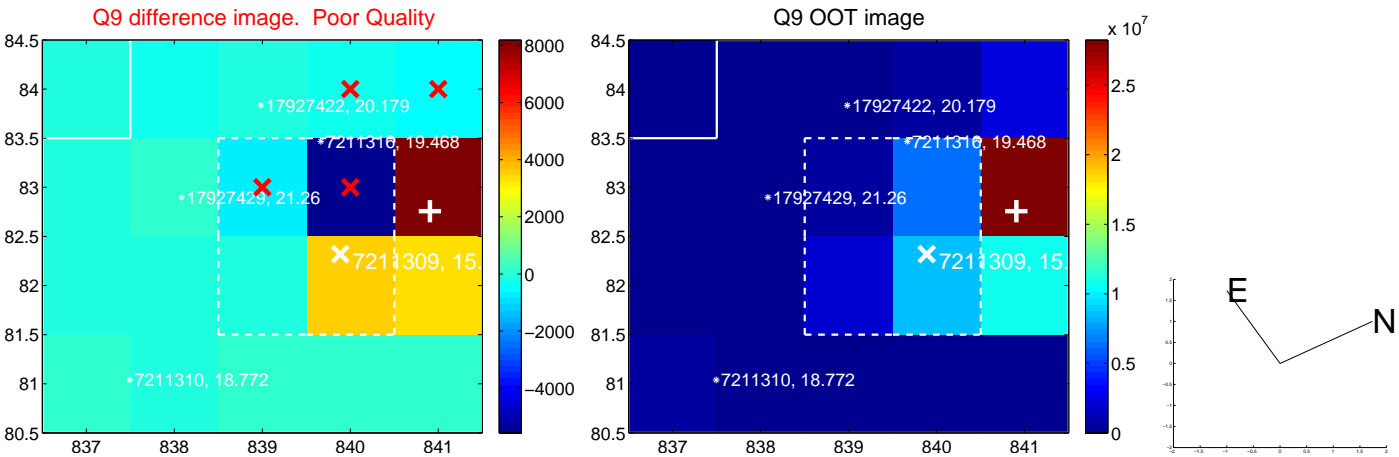
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



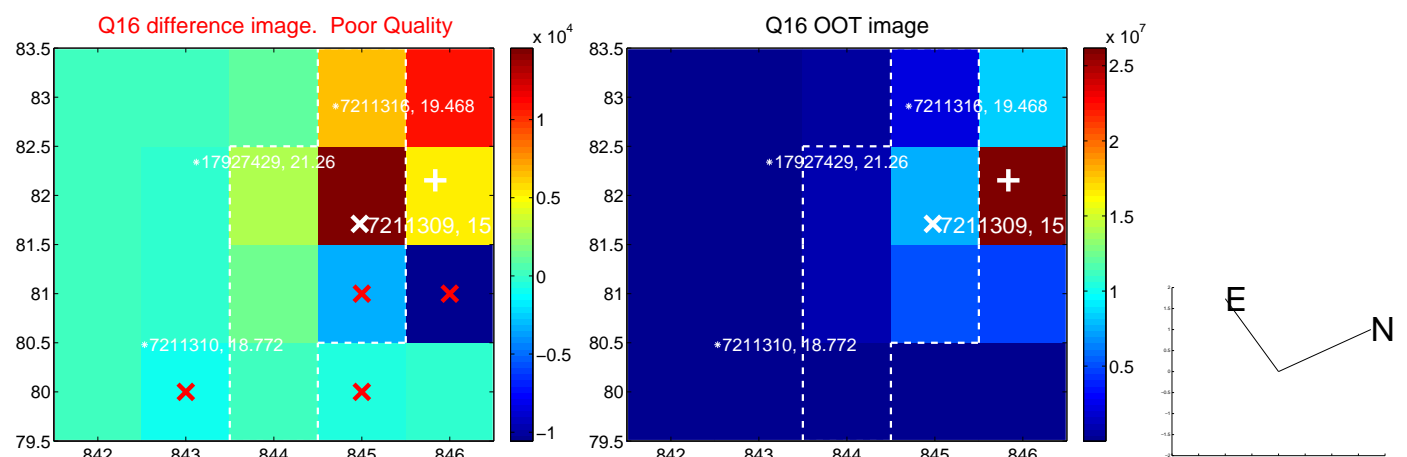
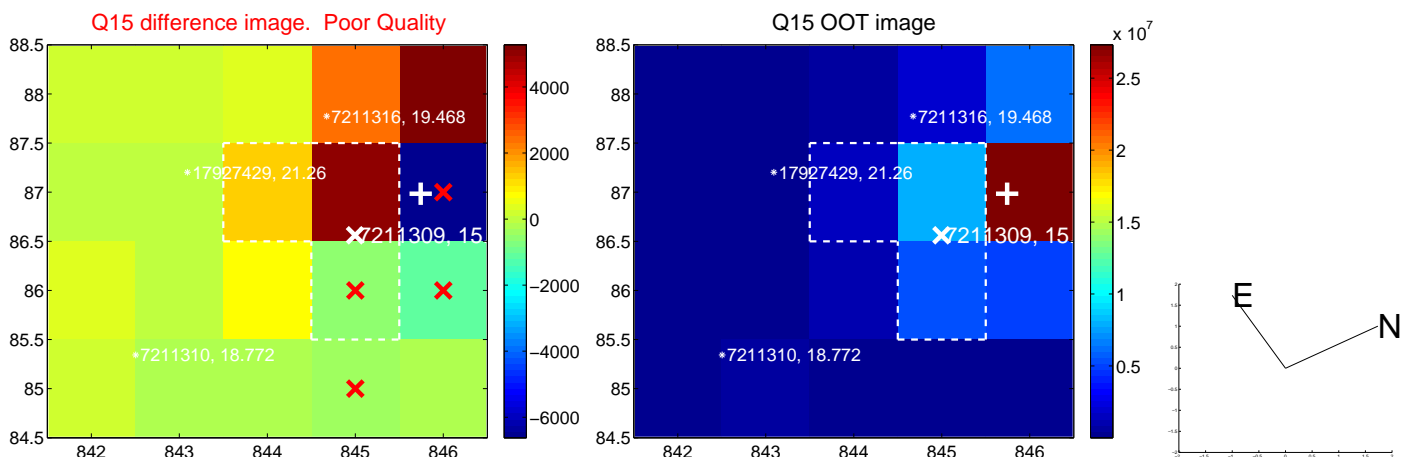
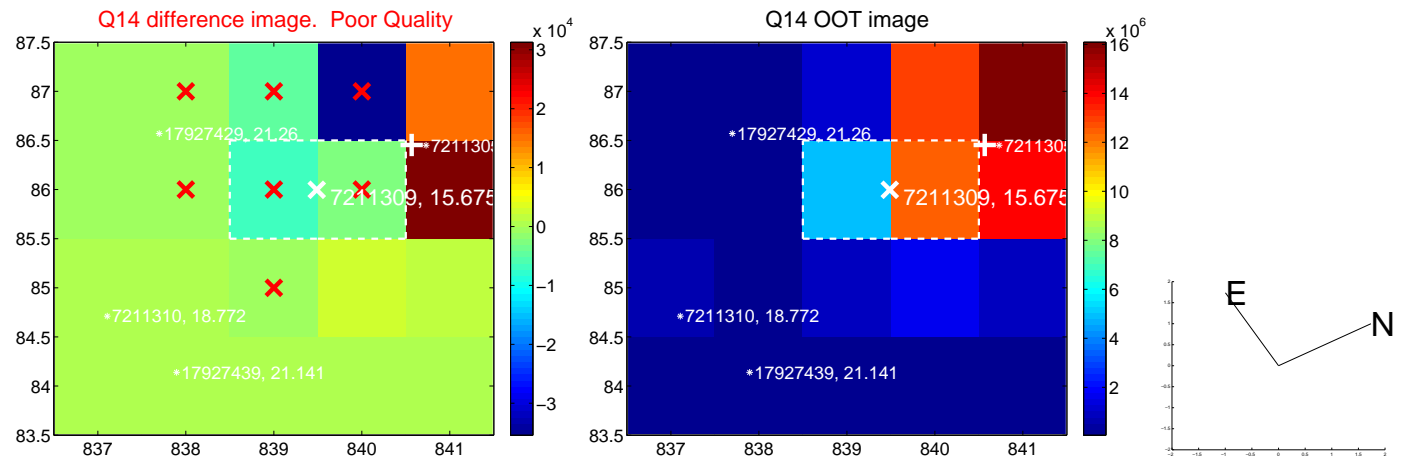
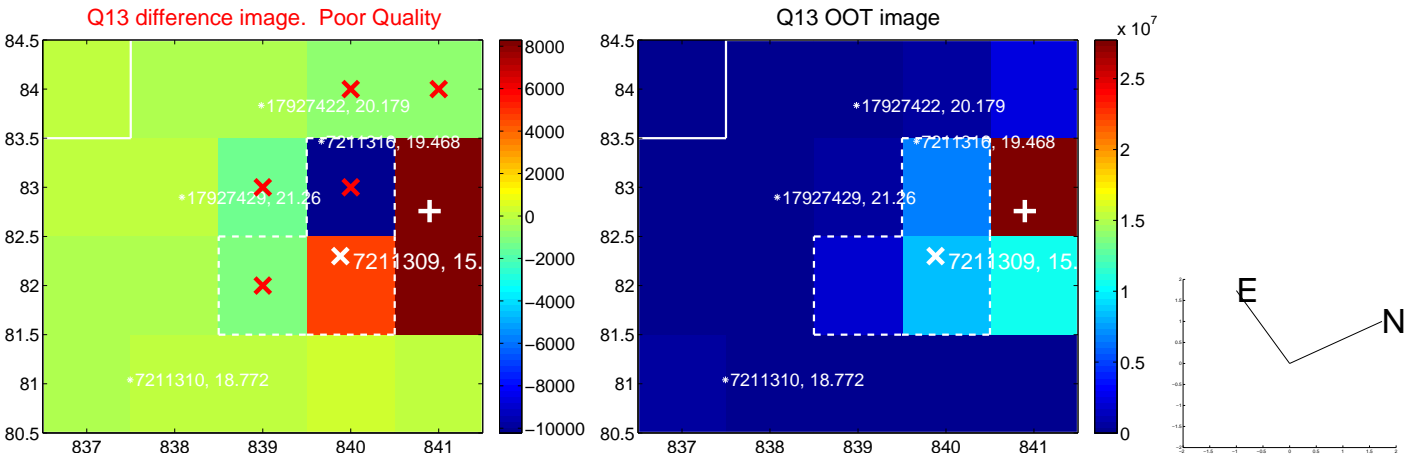
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



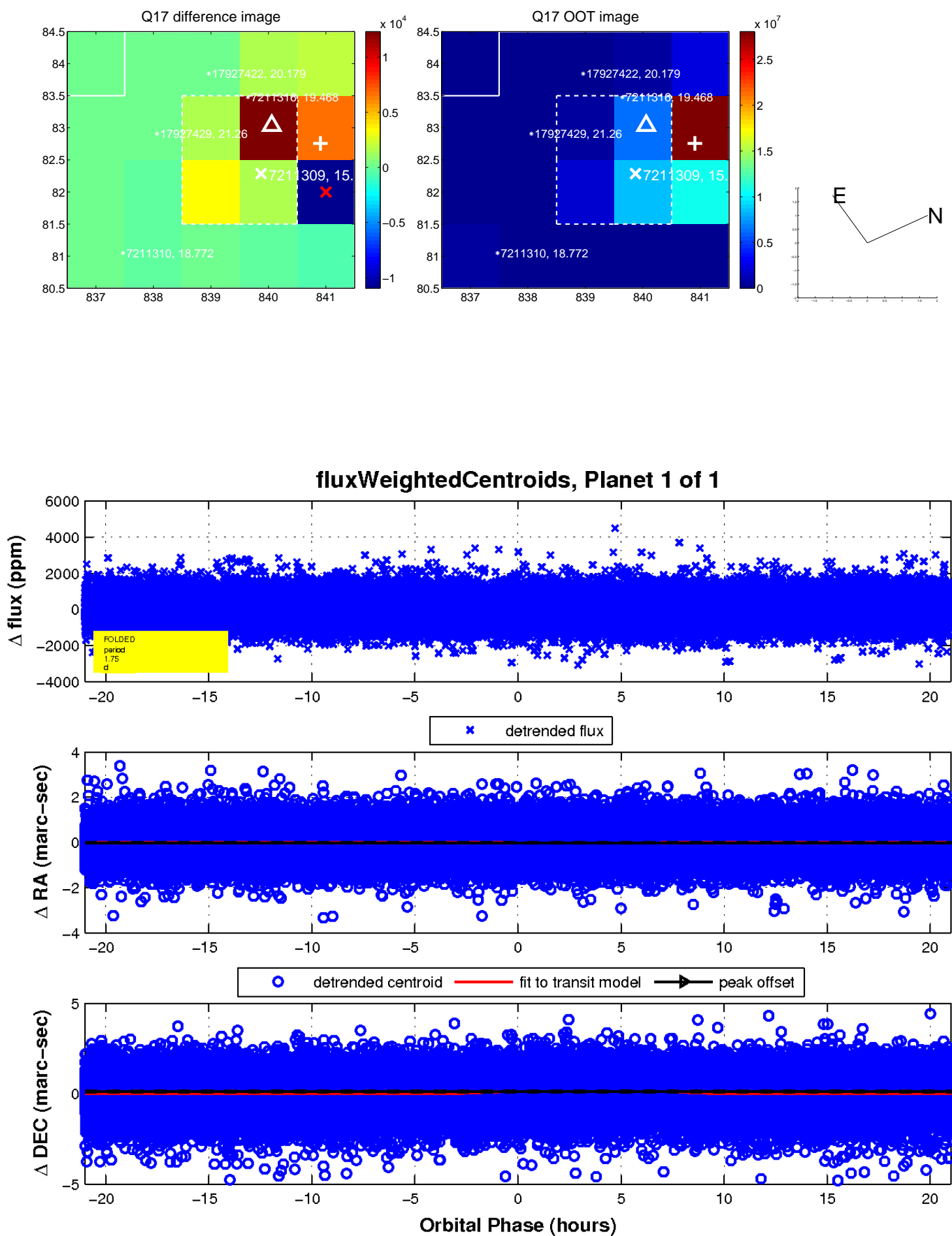
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

