

KIC 006603113

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})
006603113-01	OBS	No	0.566718	131.918847	3.9	4.553	7.9	1.2	1.03	6210	0.20	7438.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006603113-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_FEW_DIFFS

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

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

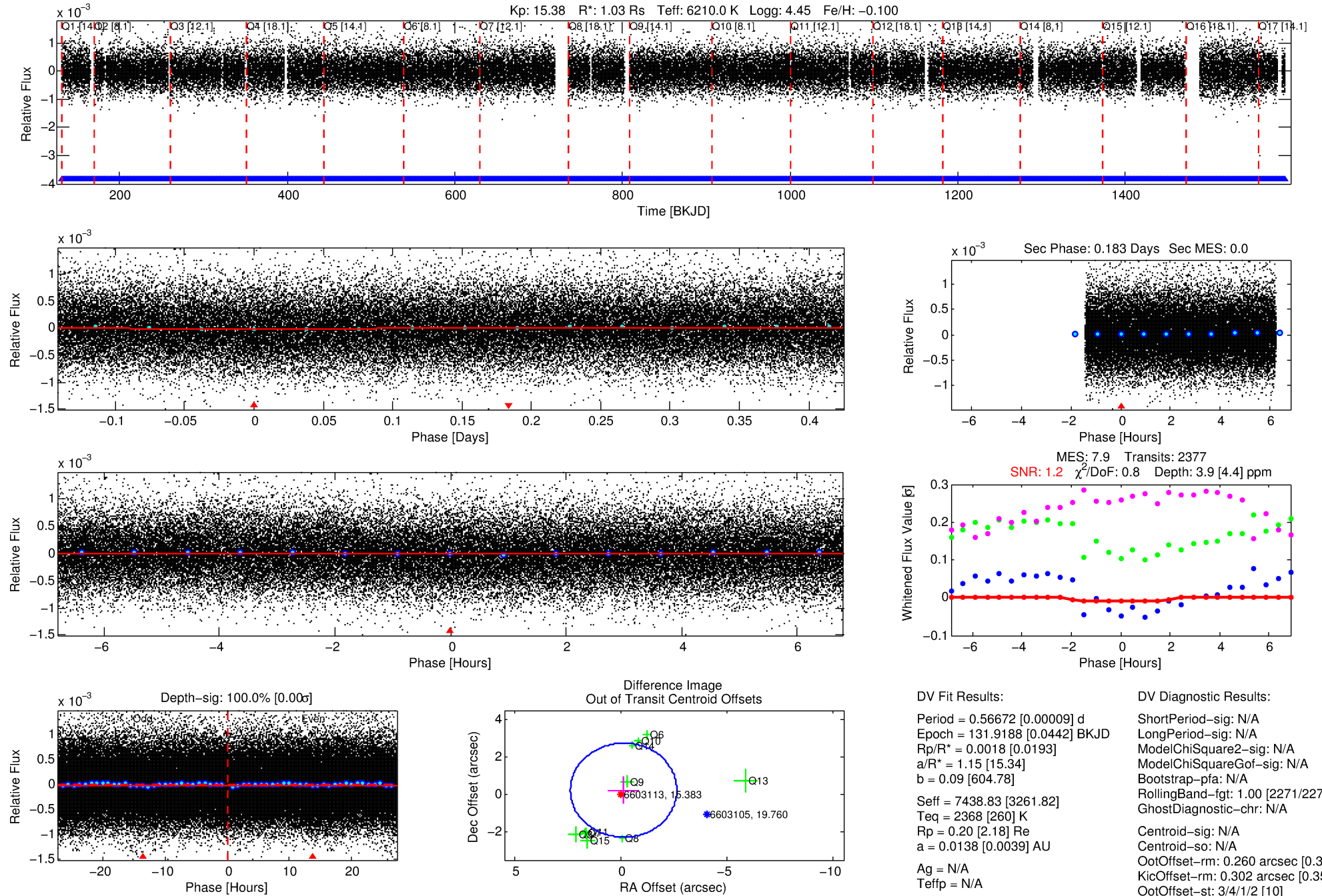
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006603113-01

No Significant Match Found

DV One-Page Summary

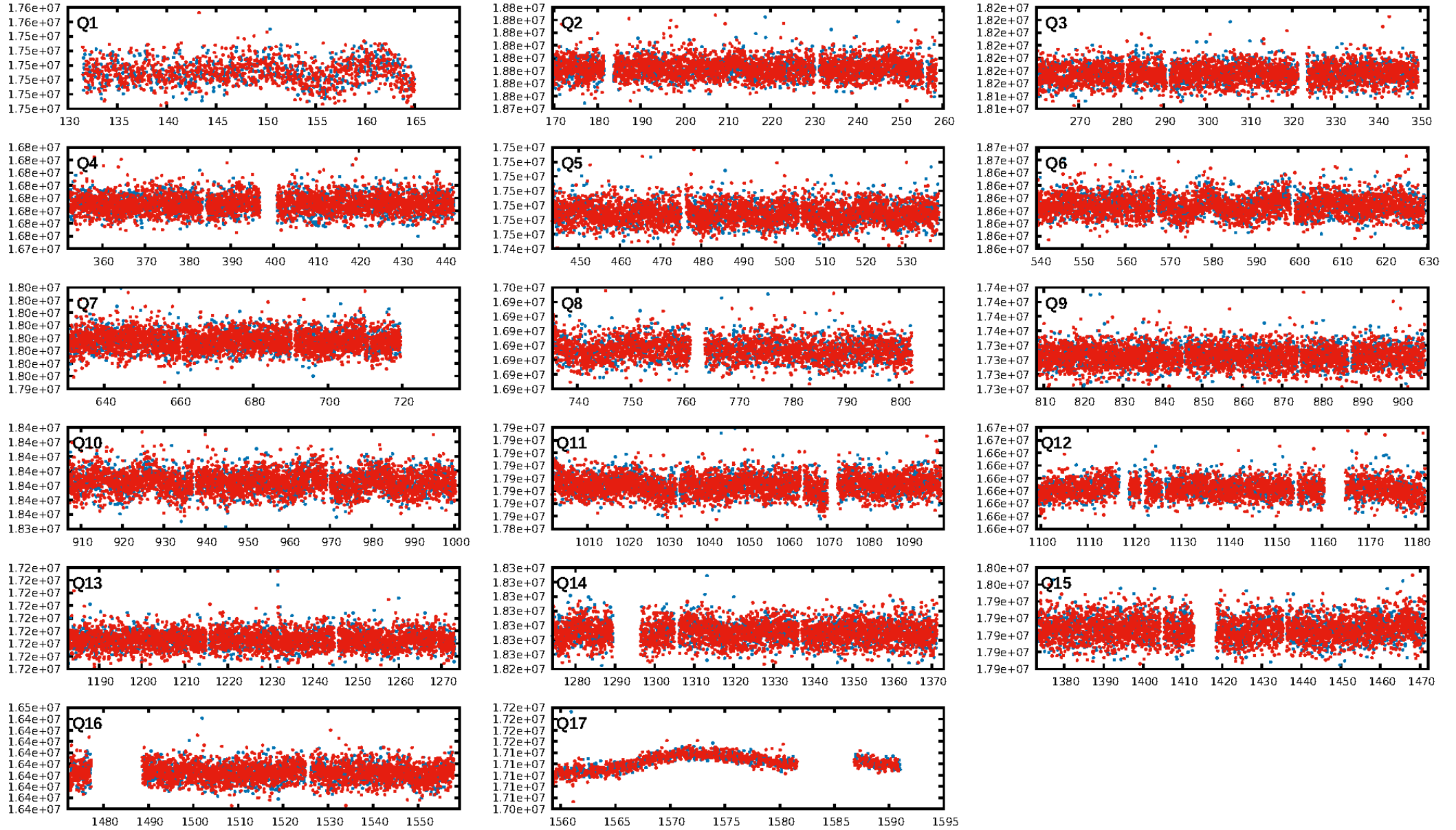
KIC: 6603113 Candidate: 1 of 1 Period: 0.567 d



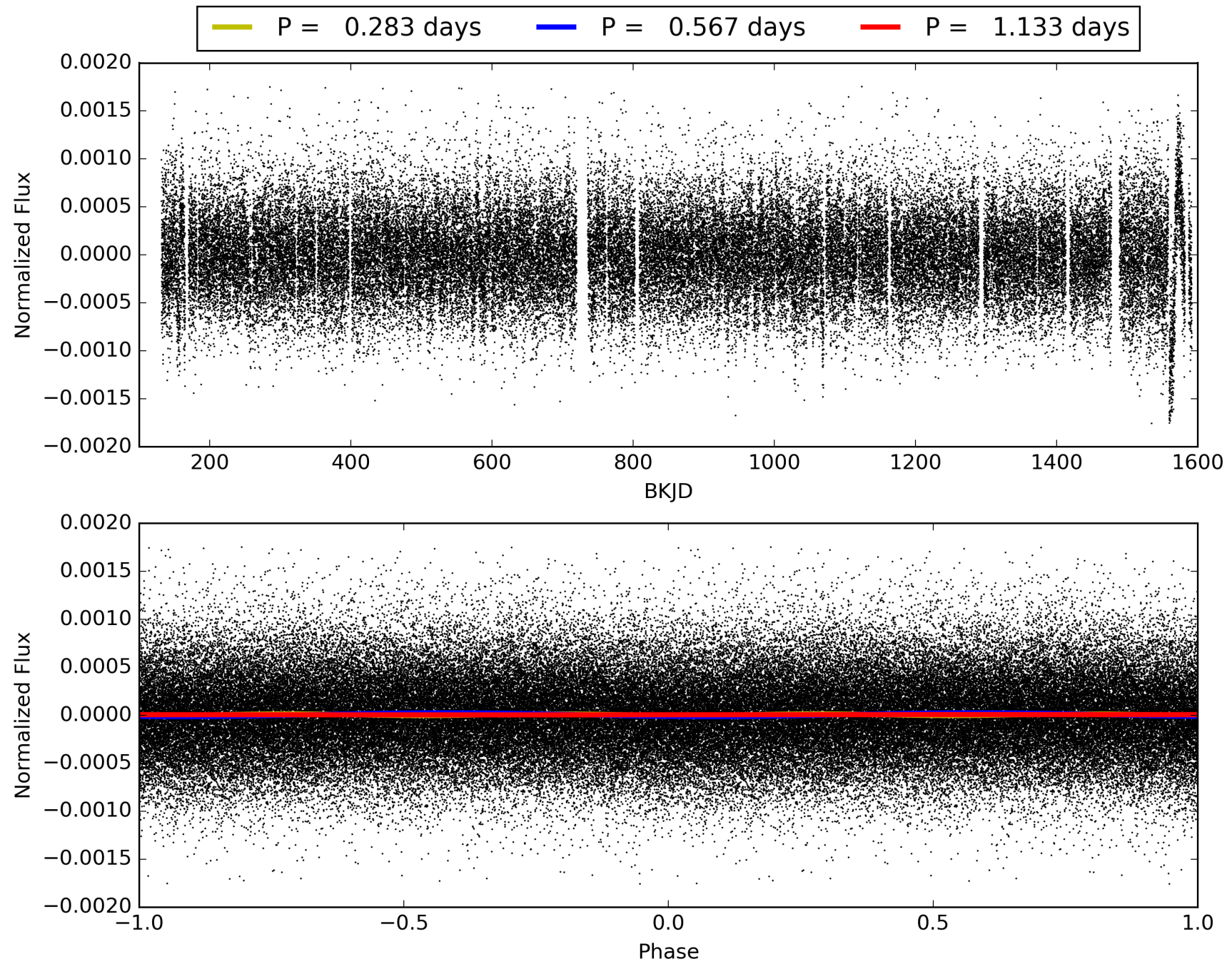
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 08:37:06 Z

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

TCE 006603113-01, PDC Light Curves

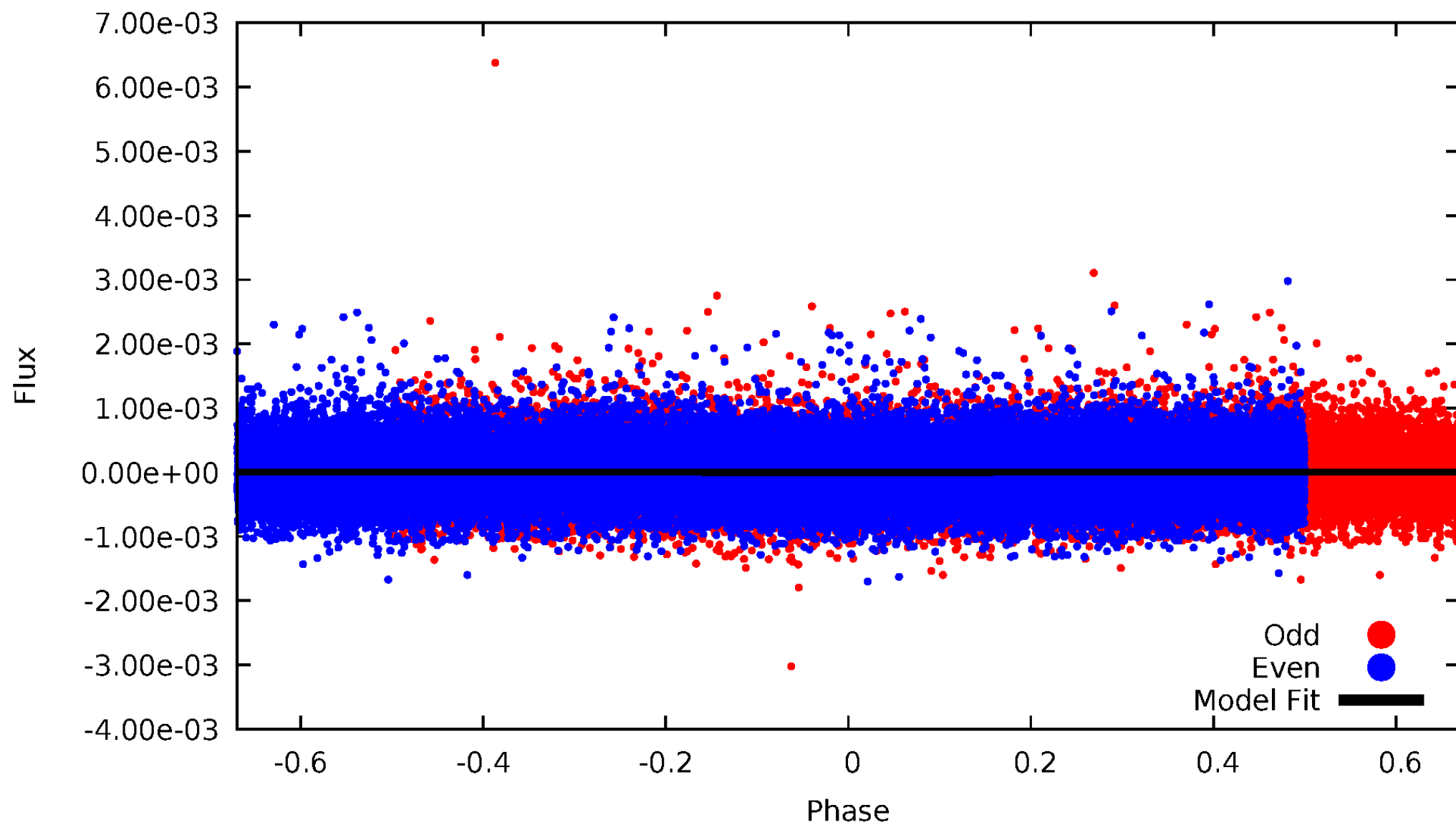


TCE 006603113-01



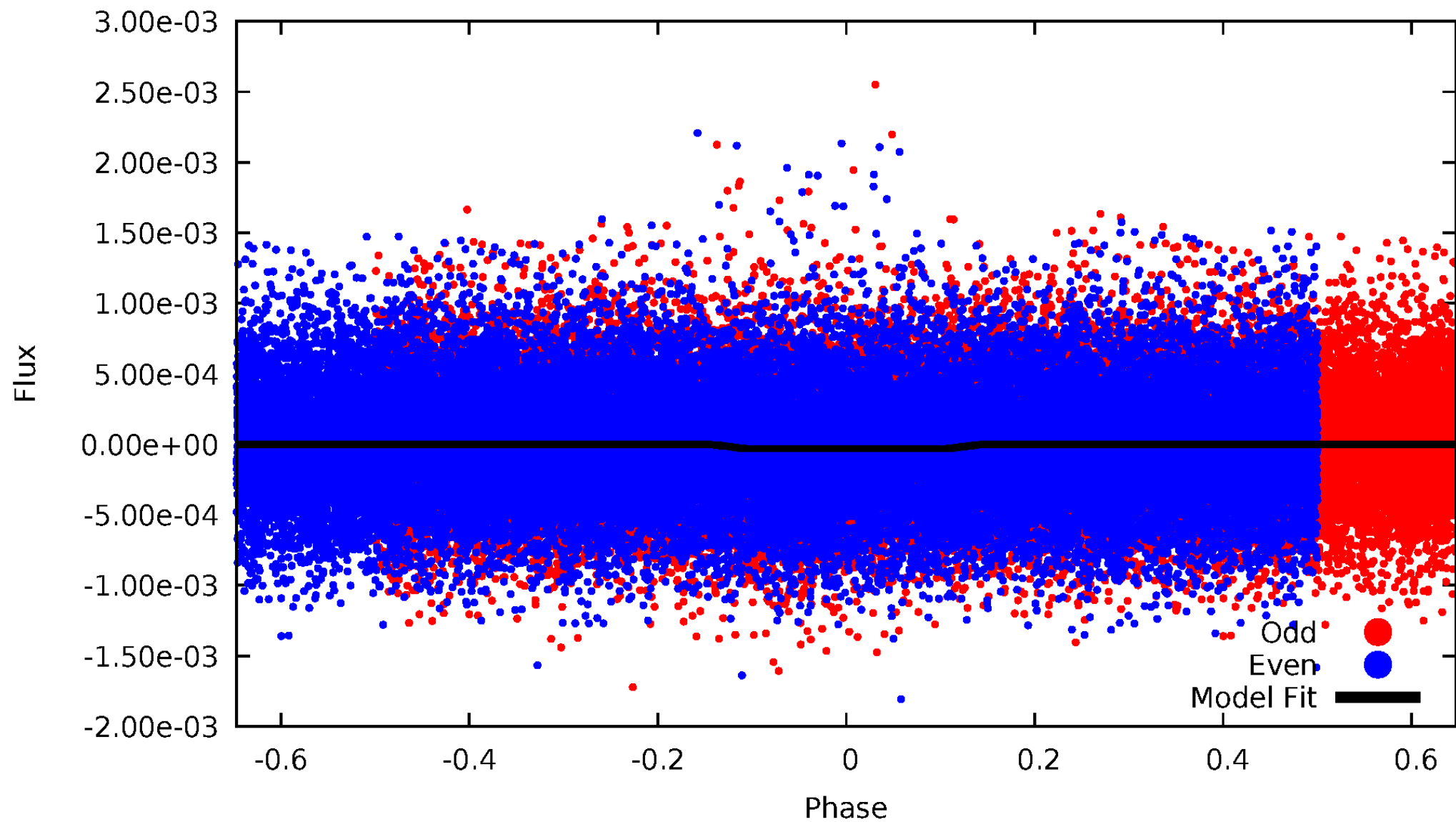
DV Odd/Even

TCE 006603113-01

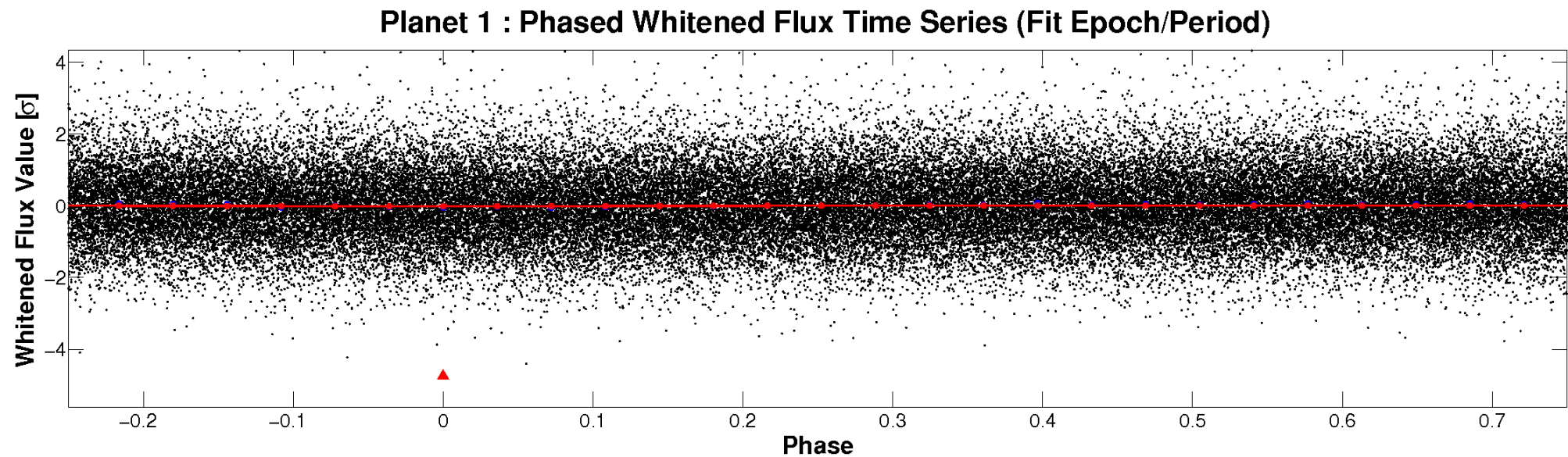
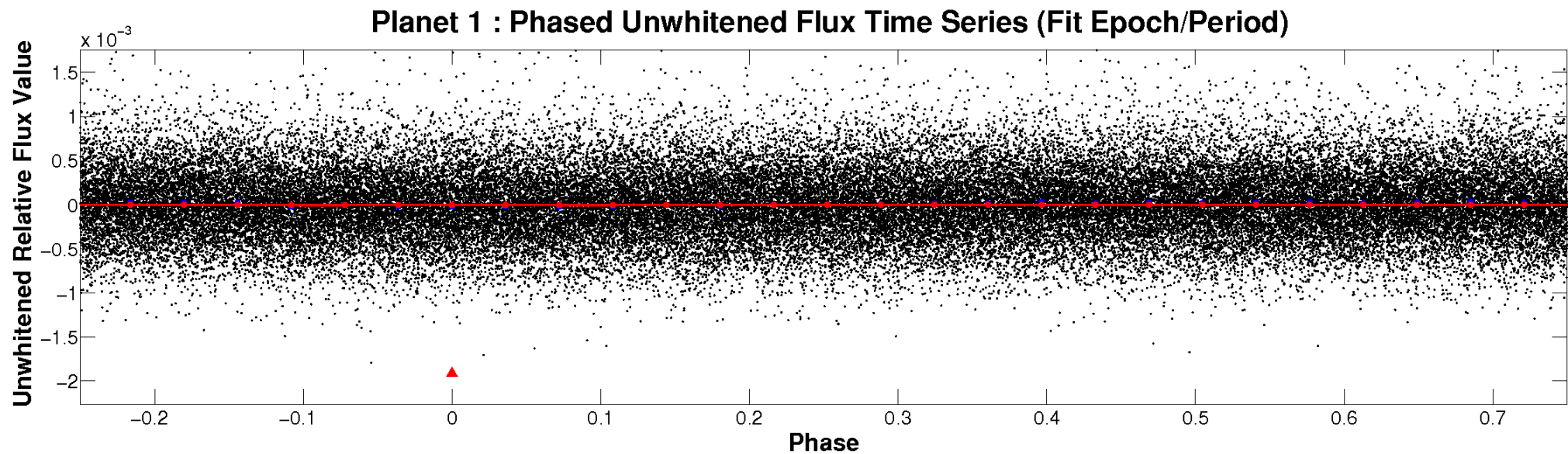


ALT Odd/Even

TCE 006603113-01

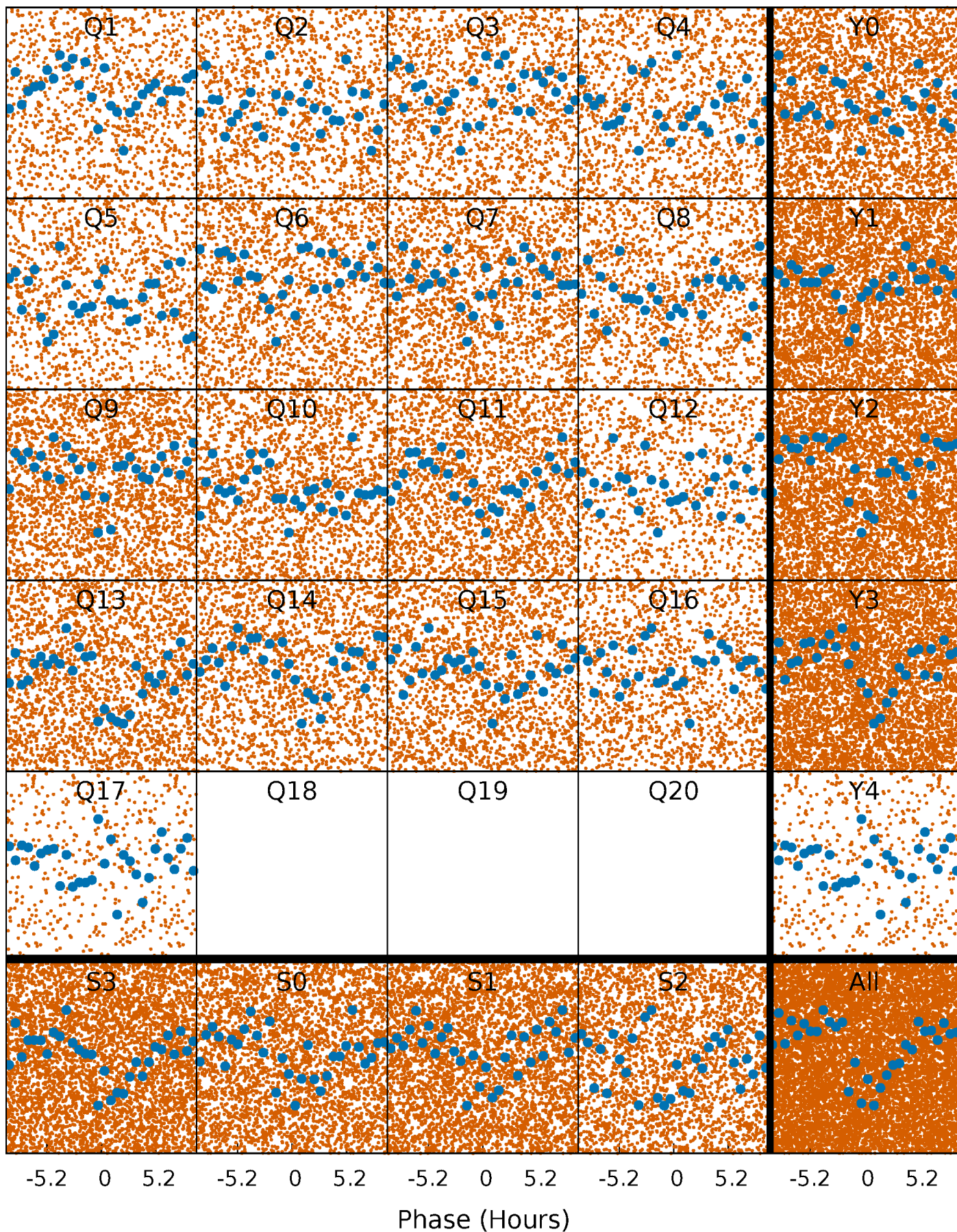


Non-Whitened Vs. Whitened Light Curve



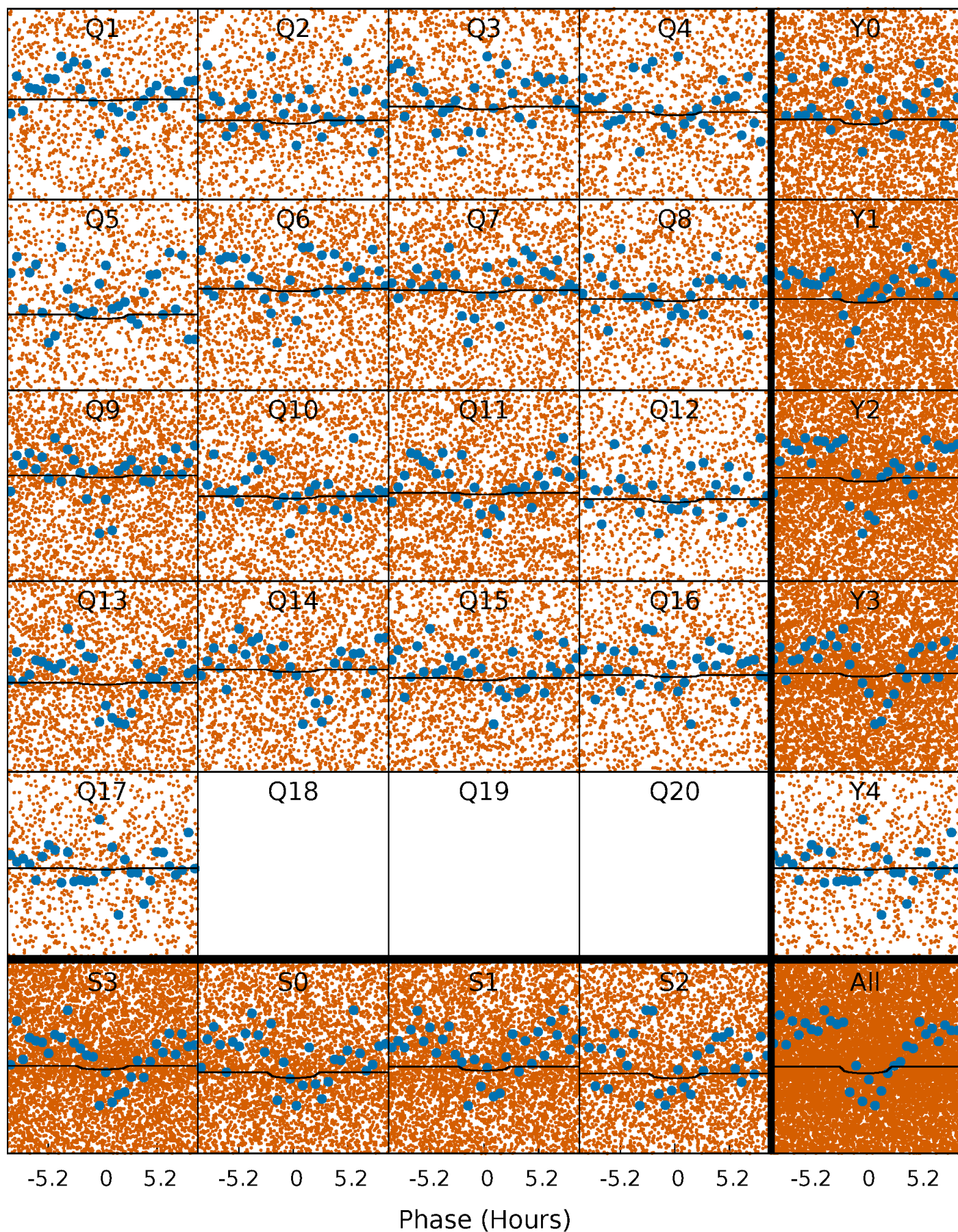
PDC Quarter-Phased Transit Curves

TCE 006603113-01 P= 0.566718 Days $T_0=131.918847$ (BKJD)



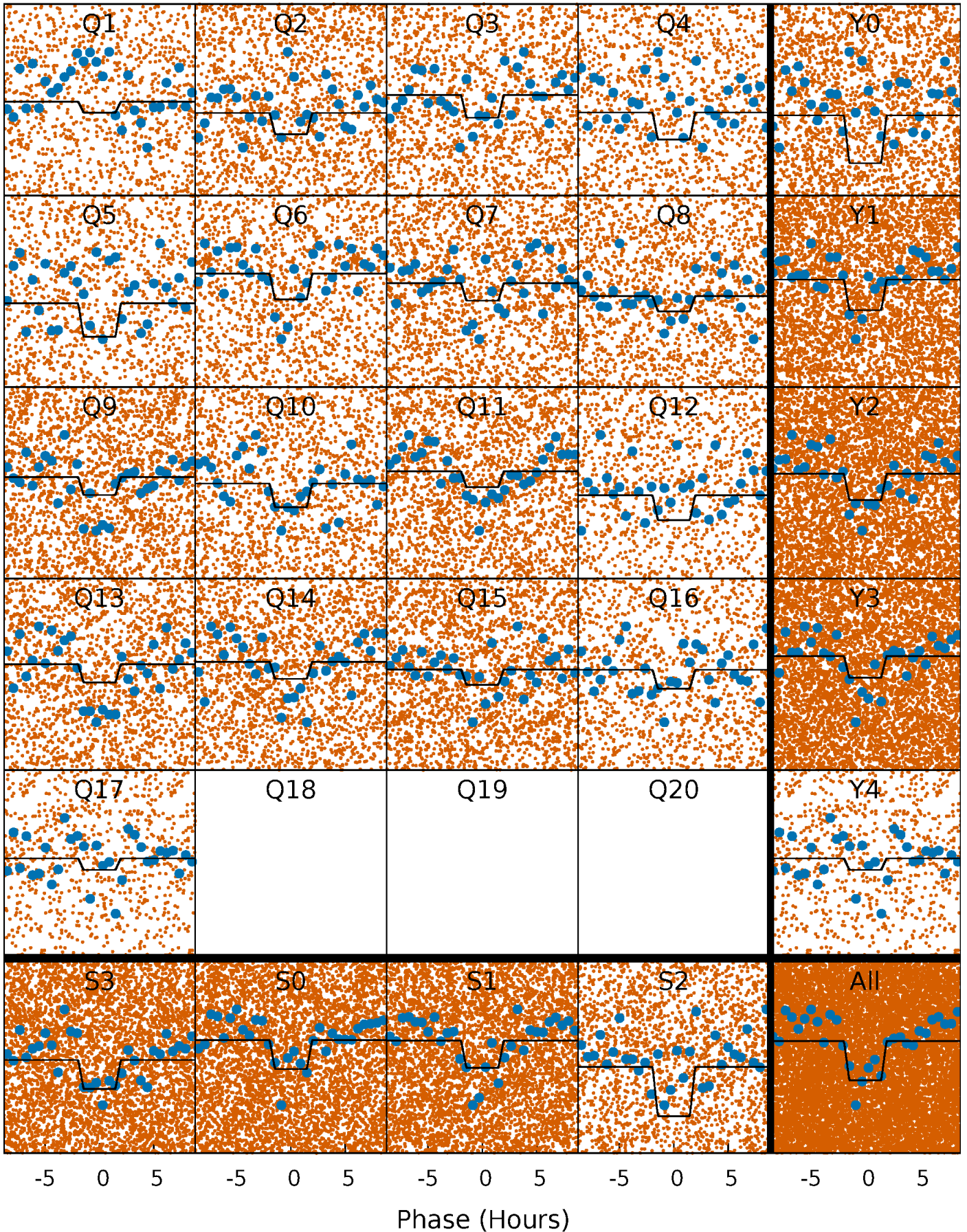
DV Quarter-Phased Transit Curves

TCE 006603113-01 P= 0.566718 Days $T_0=131.918847$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

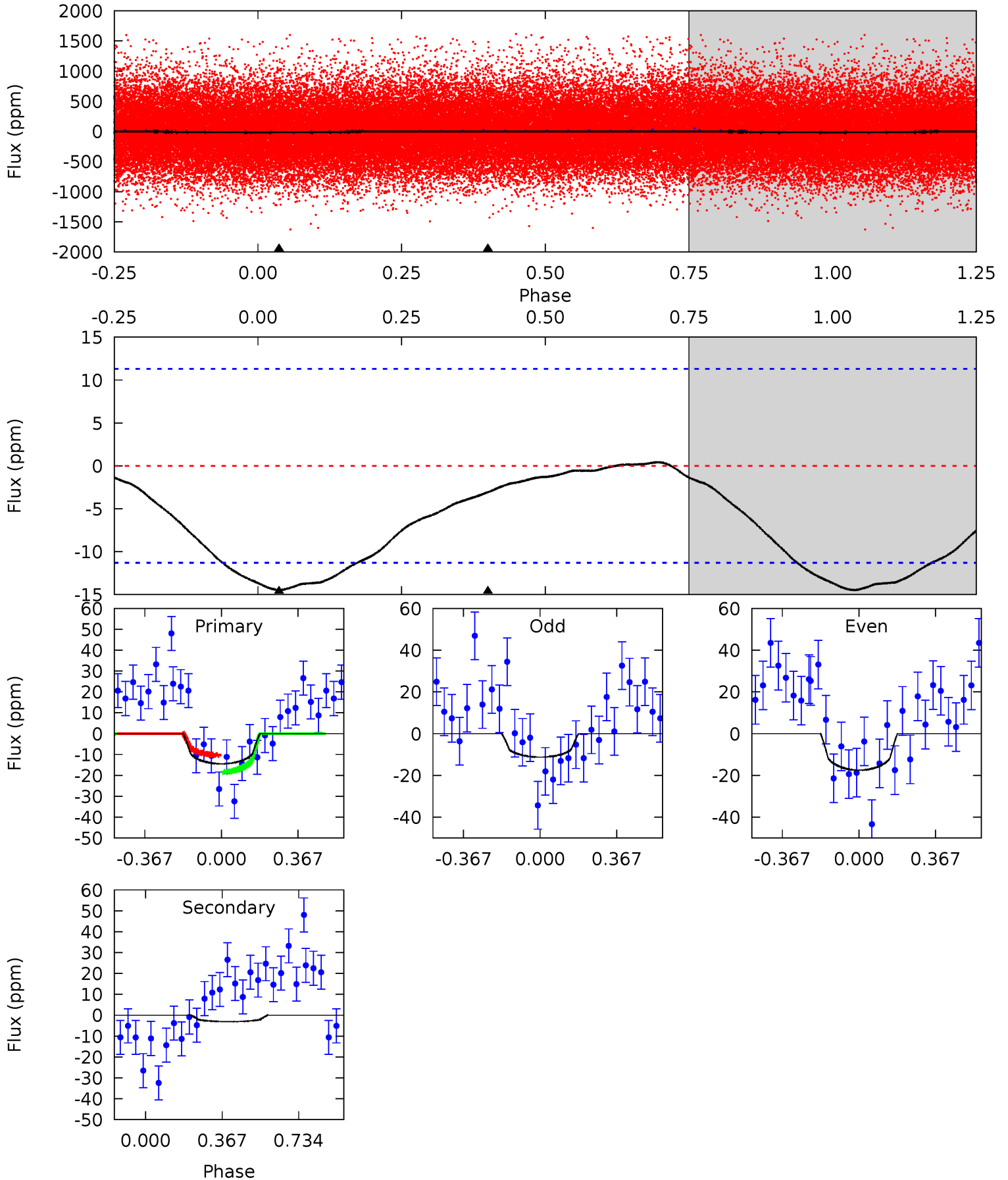
TCE 006603113-01 P= 0.566795 Days $T_0=131.827183$ (BKJD)



DV Model-Shift Uniqueness Test

006603113-01, P = 0.566718 Days, E = 131.352129 Days

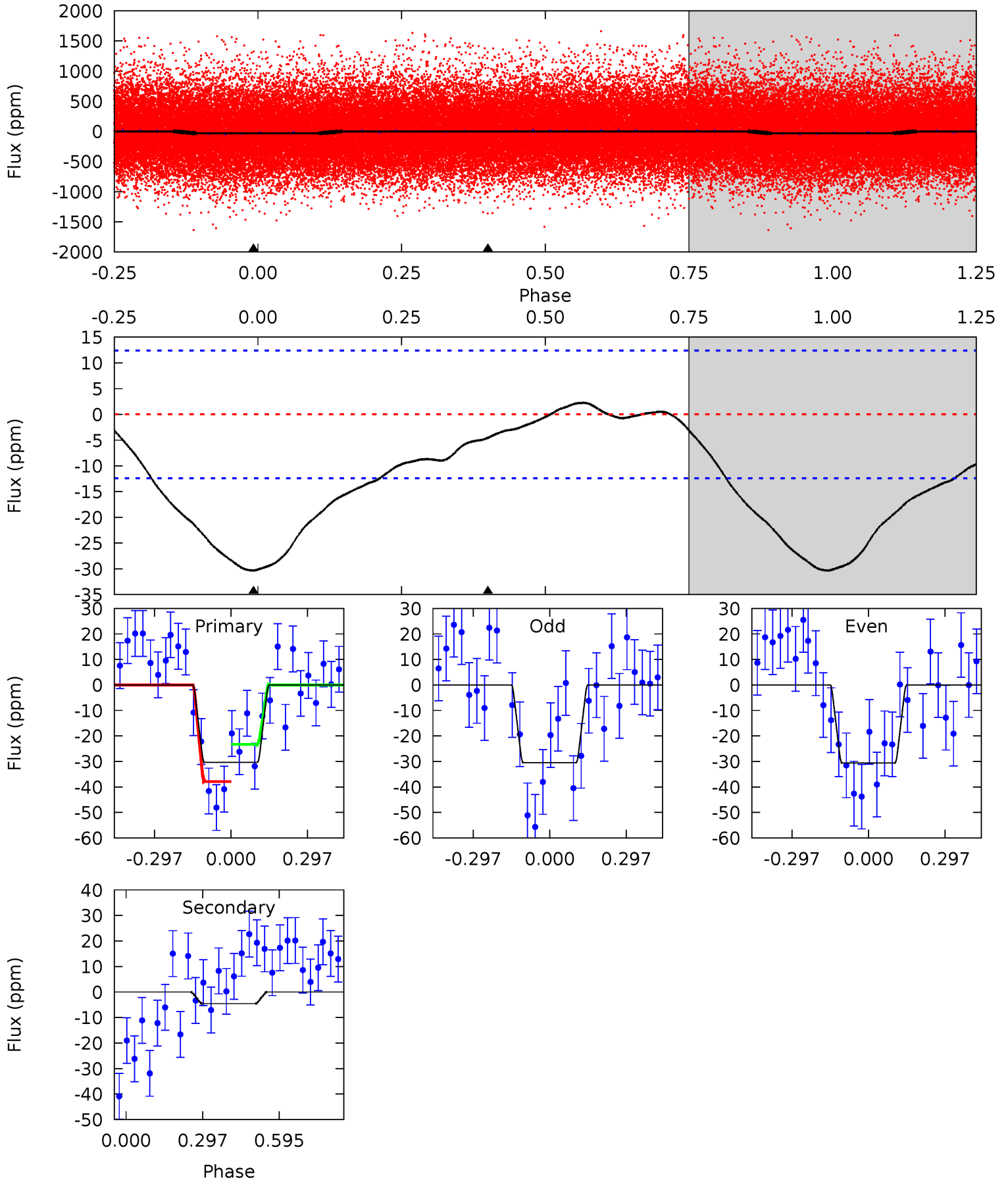
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.49	1.17	0	0	4.28	0.90	0.29	5.49	5.49	1.17	1.17	1.18	0.76	0.03	1.56



Alt Model-Shift Uniqueness Test

006603113-01, P = 0.566795 Days, E = 131.260388 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	1.59	0	0	4.33	1.04	0.27	10.6	10.6	1.59	1.59	0.03	1.03	0.07	2.51



Stellar Parameters For KIC 006603113

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6210^{+194}_{-237}	$4.450^{+0.056}_{-0.224}$	$-0.100^{+0.250}_{-0.300}$	$1.033^{+0.349}_{-0.116}$	$1.093^{+0.153}_{-0.153}$	$1.397^{+0.417}_{-0.763}$
	+3%/-4%	+1%/-5%	+250%/-300%	+34%/-11%	+14%/-14%	+30%/-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 006603113-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-3 ± 3	$1.65^{+1.87}_{-1.15}$	3384^{+279}_{-183}	-3128^{+6952}_{-270}	$0.083^{+0.917}_{-0.075}$
Alt.	-5 ± 3	$1.95^{+1.71}_{-1.36}$	3379^{+286}_{-179}	-3066^{+7087}_{-283}	$0.112^{+1.176}_{-0.090}$

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 $A_{obs} \gg 1.0$

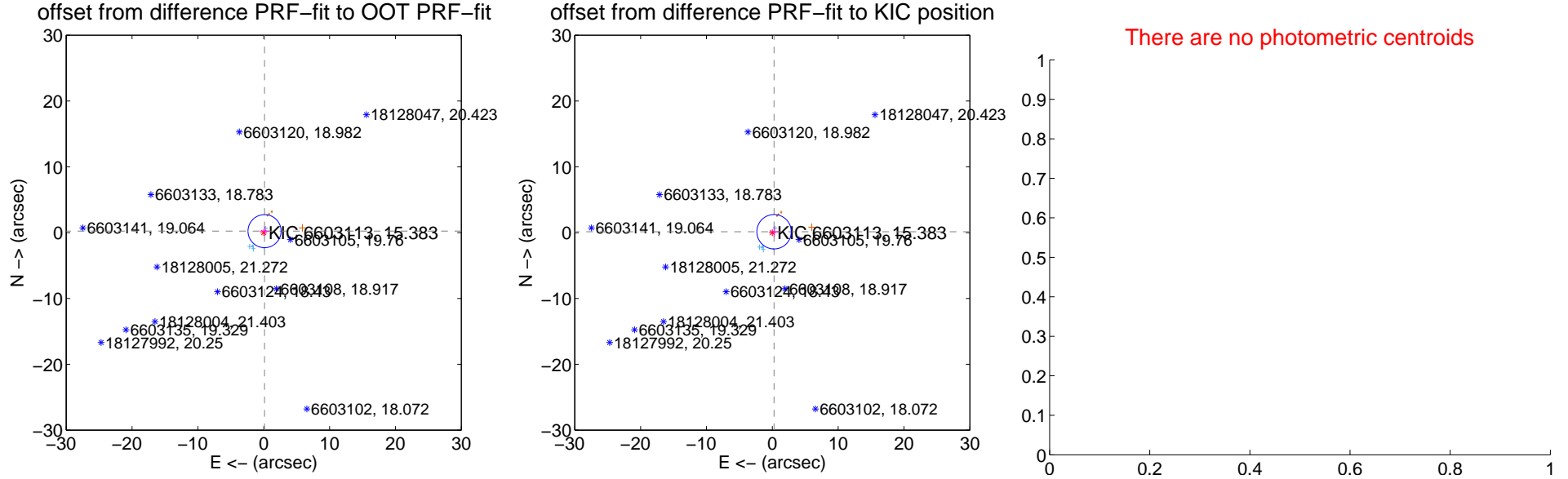
DV Centroid Data

Supplemental centroid analysis for 006603113-01. Kepler magnitude: 15.38. Transit SNR 1.16

There are 6 quarters with good PRF difference image offsets

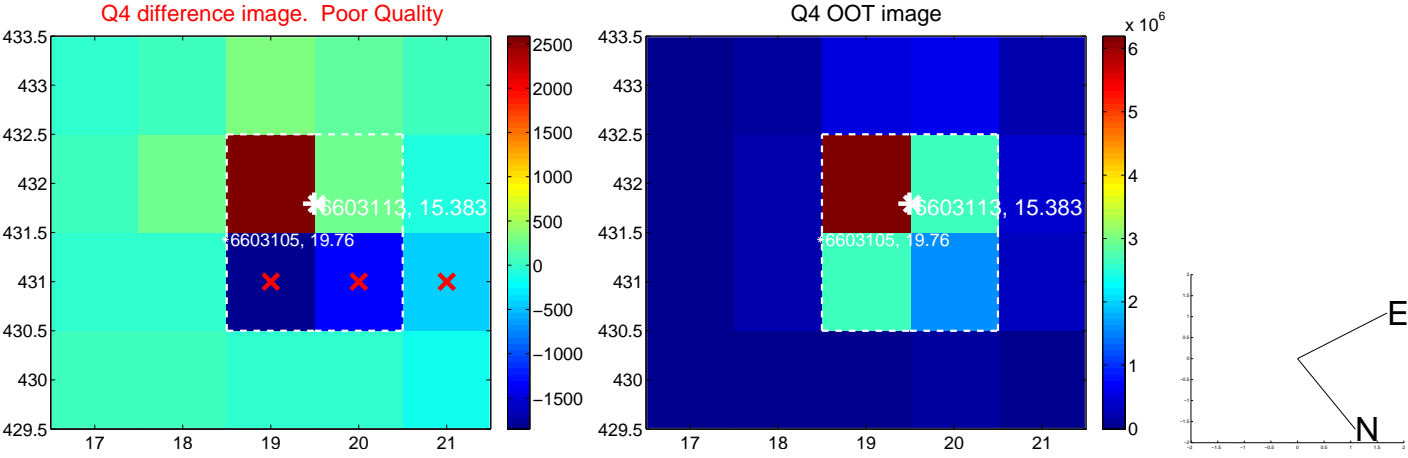
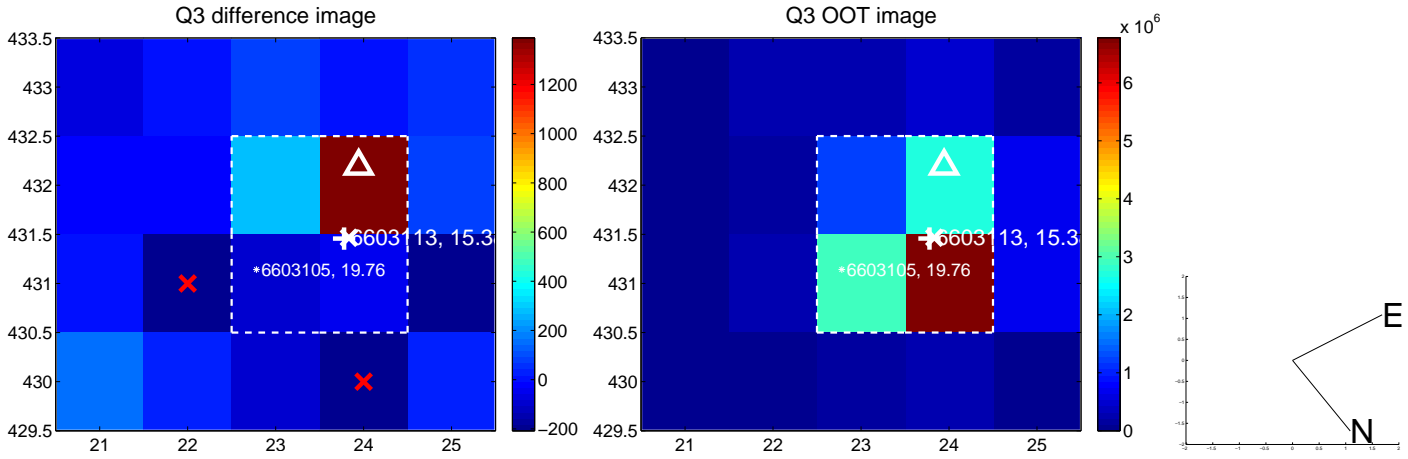
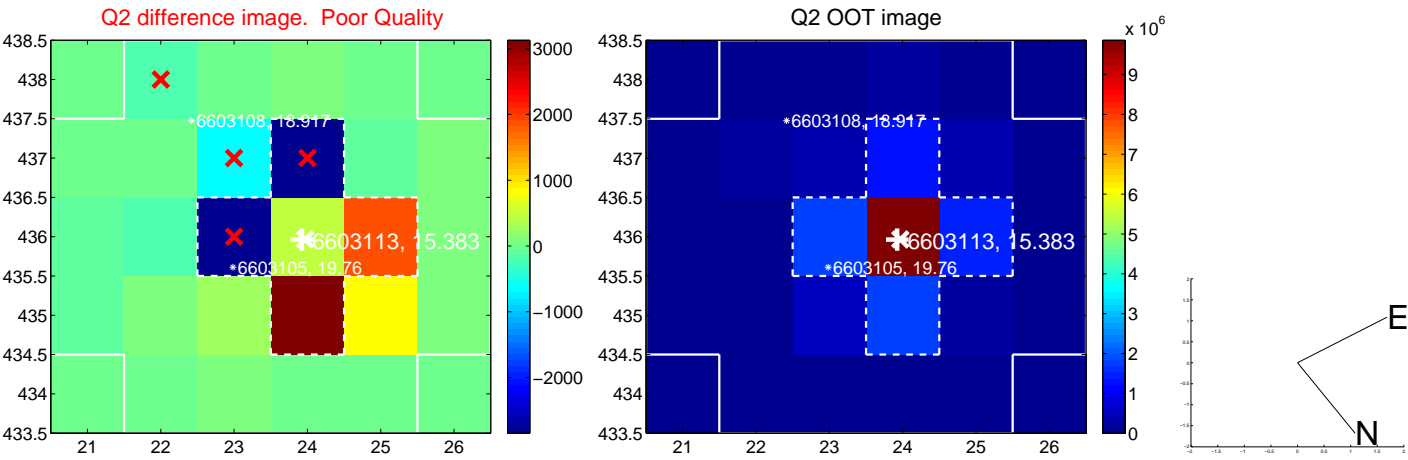
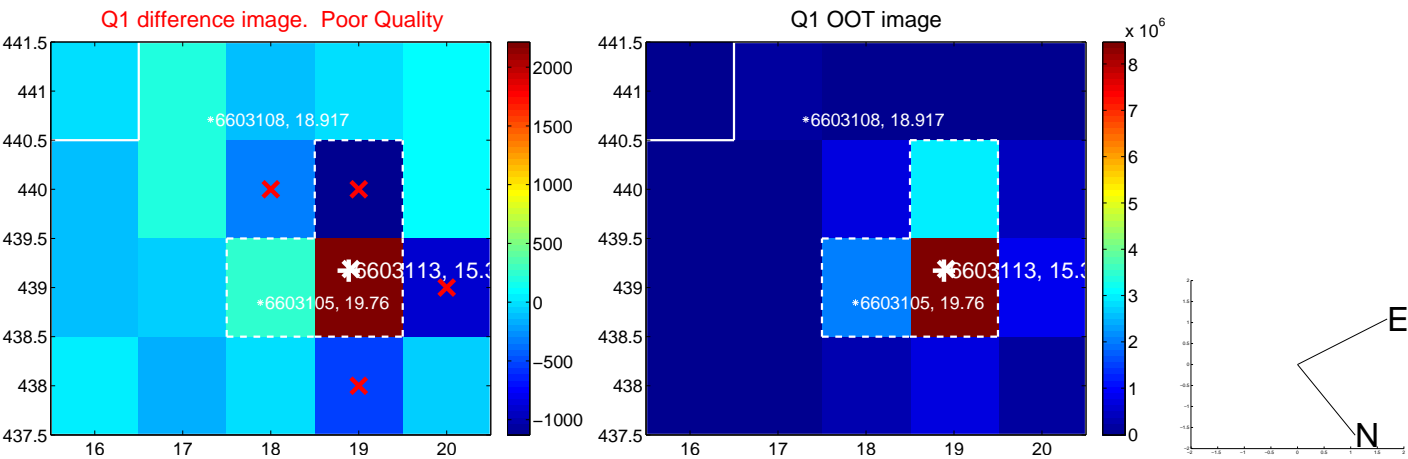
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.260 ± 0.837	0.31	-0.124 ± 0.691	0.228 ± 0.696
PRF-fit source offset from KIC position	0.302 ± 0.872	0.35	-0.268 ± 0.698	0.140 ± 0.776
photometric centroid source offset	—	—	—	—

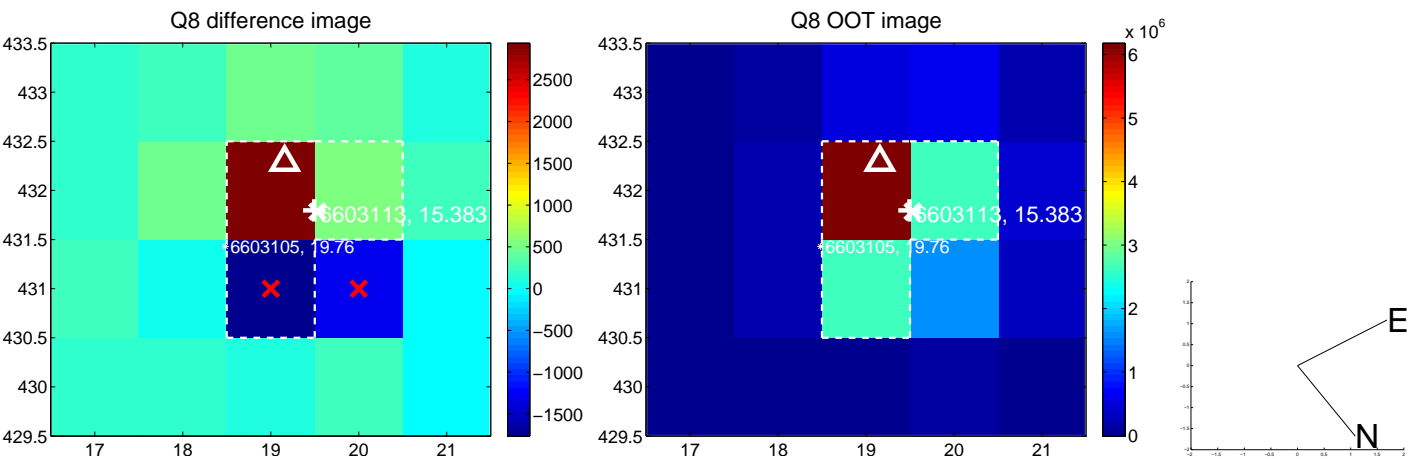
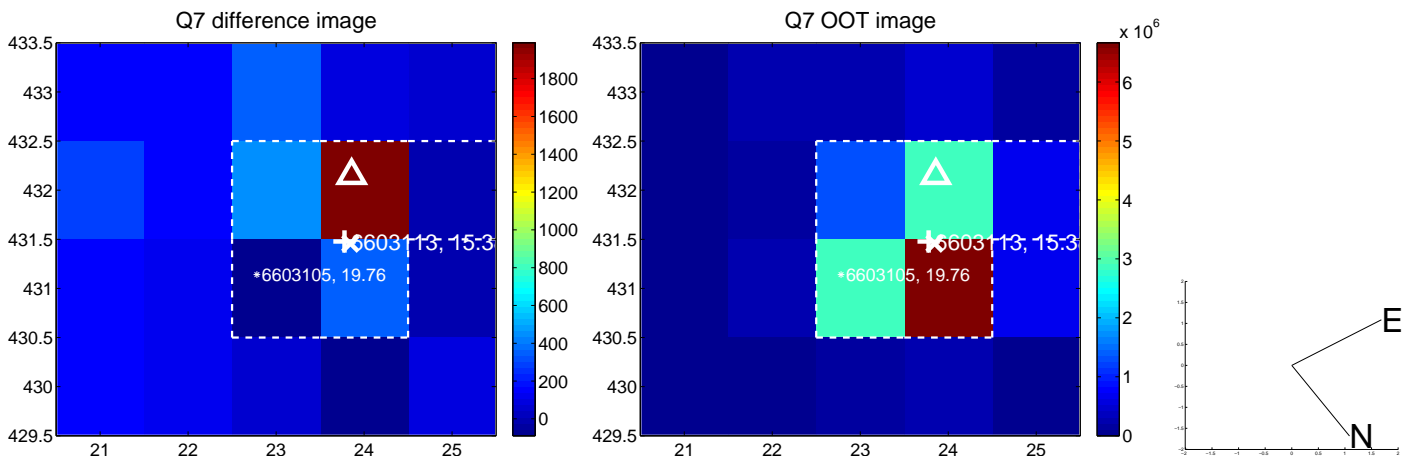
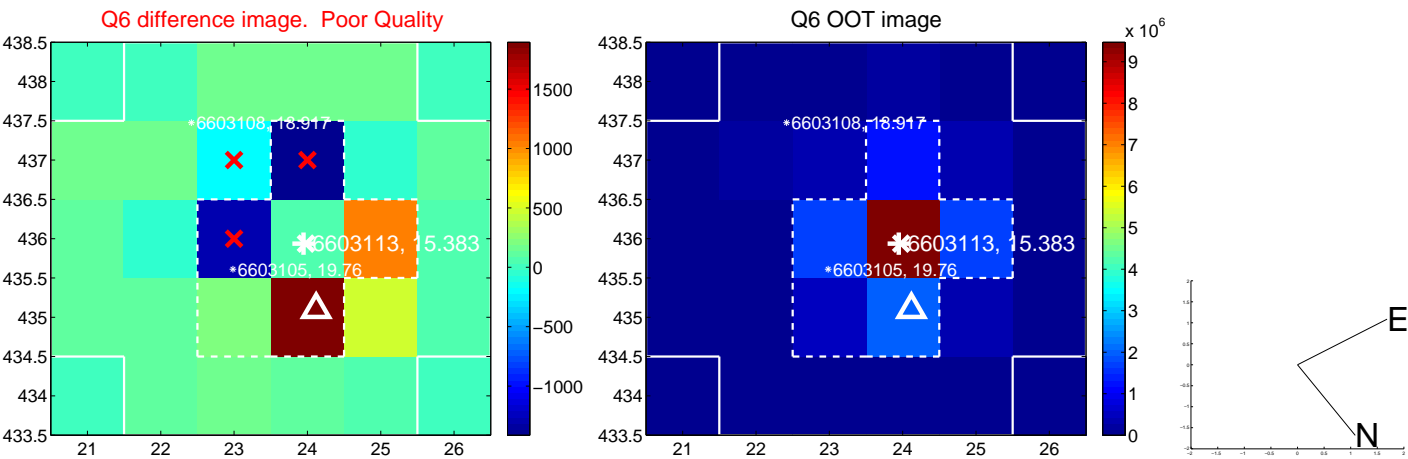
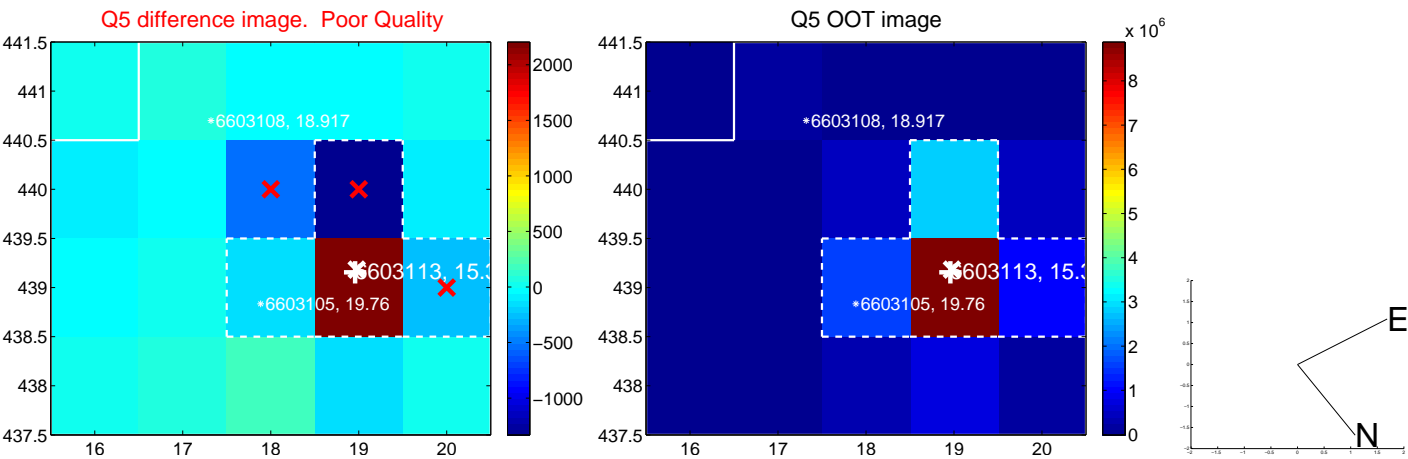


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

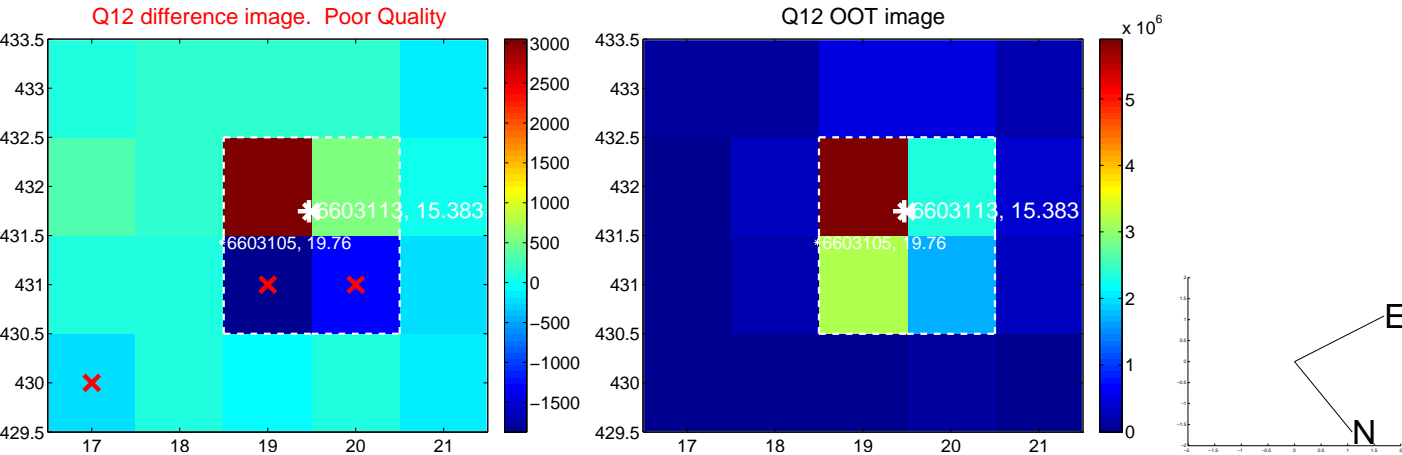
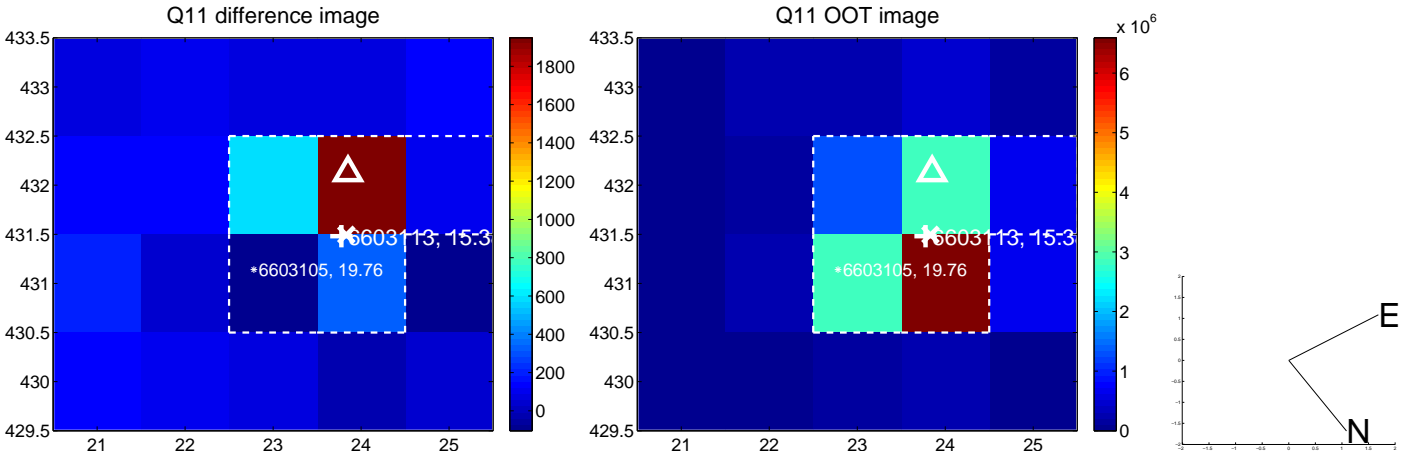
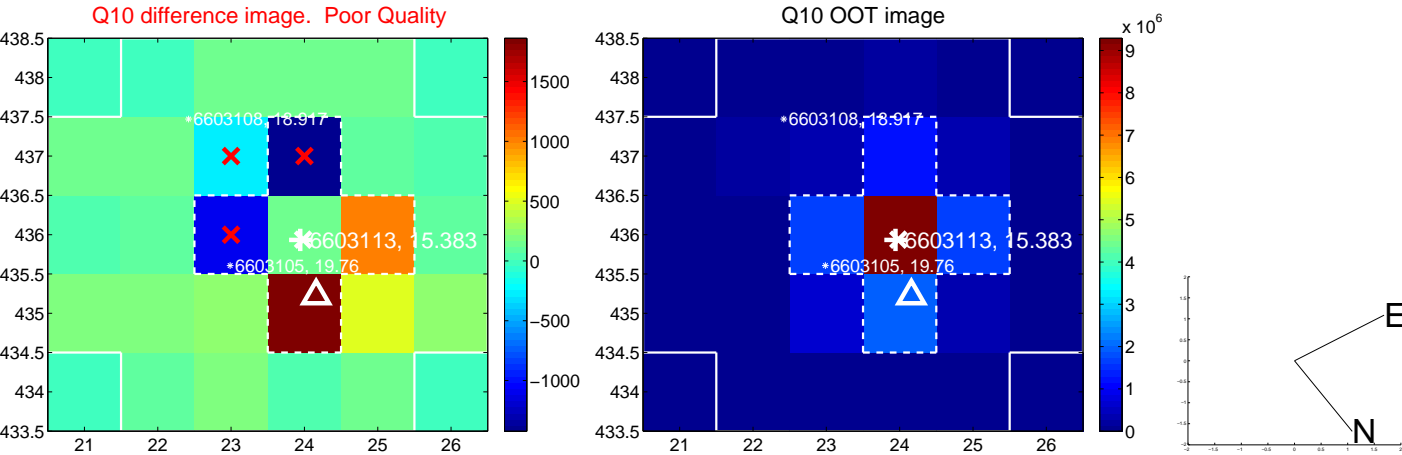
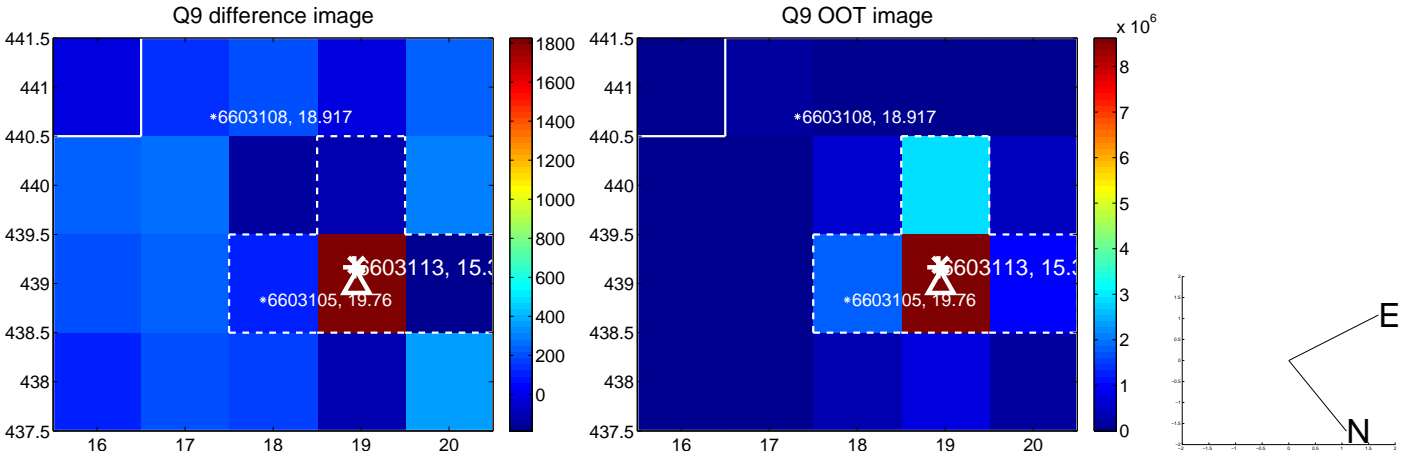
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



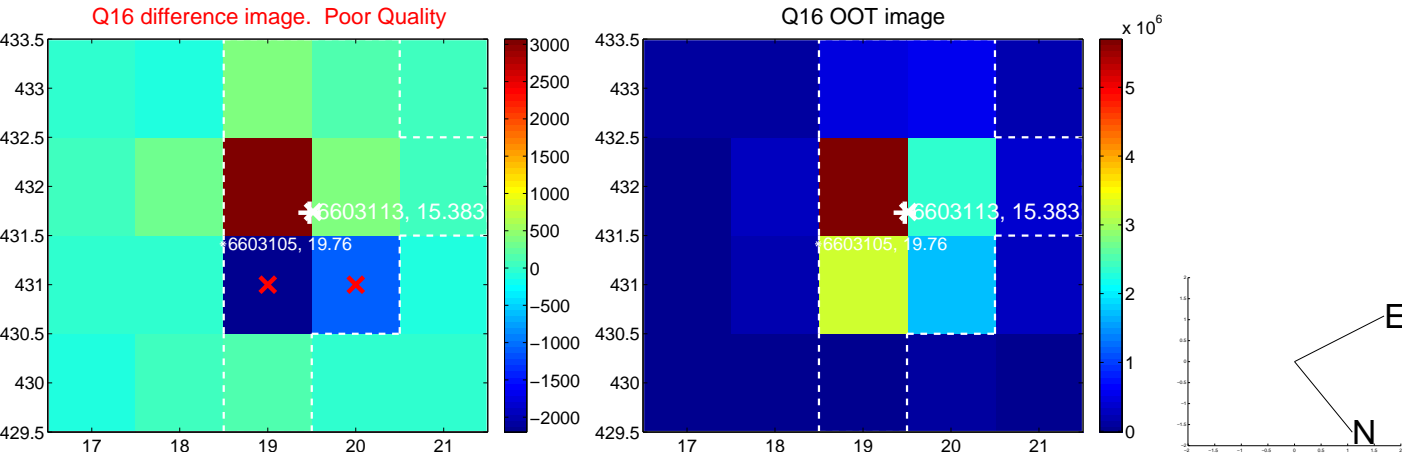
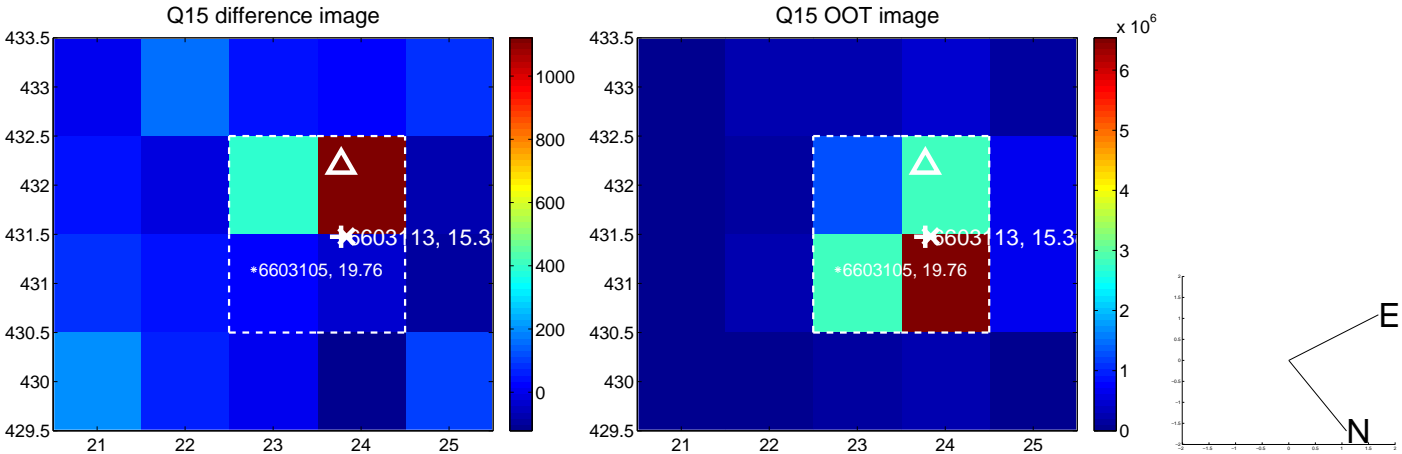
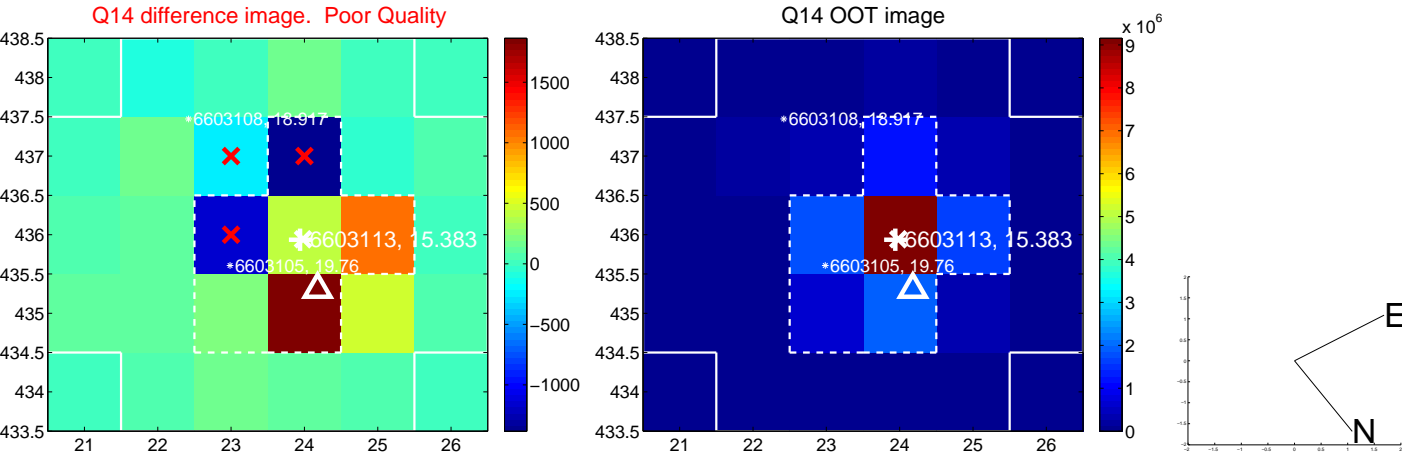
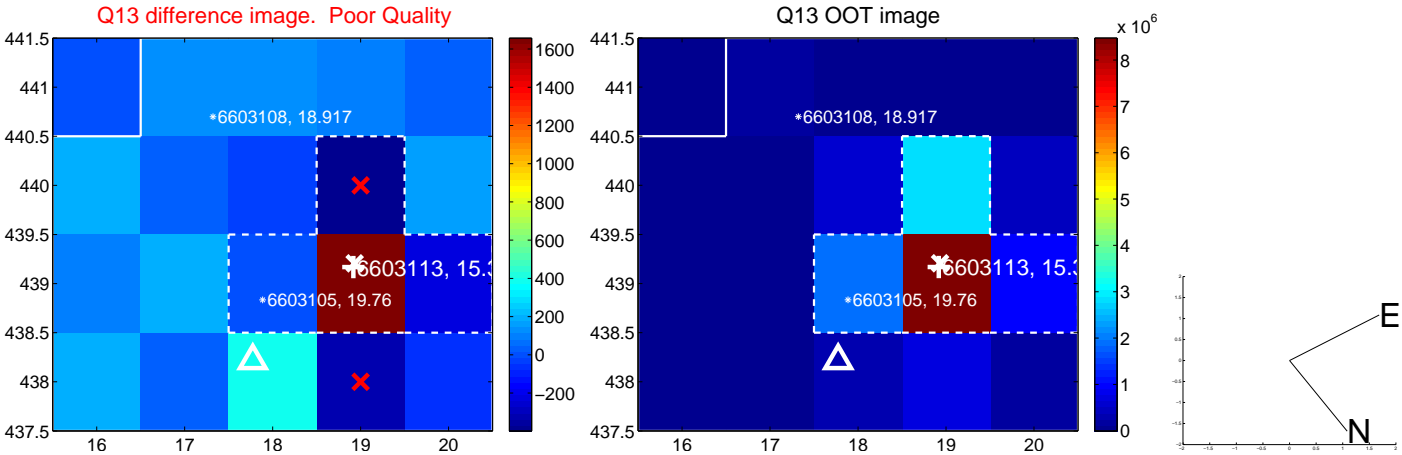
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



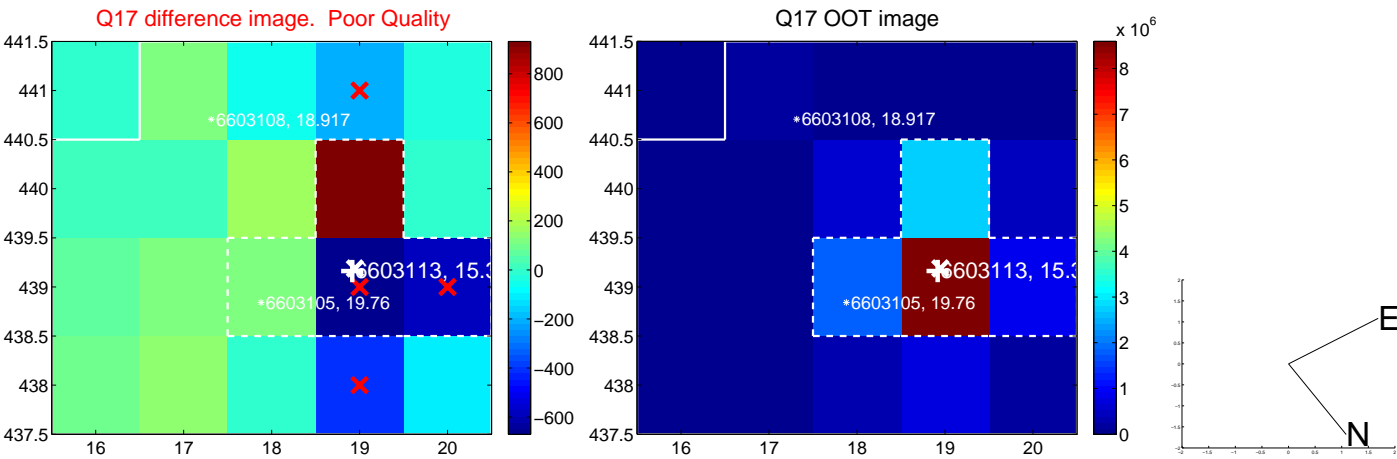
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



folded centroid time series figure for this object.

UKIRT Image

Declination

