

KIC 006063322

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})
006063322-01	OBS	No	7.209467	131.997720	117.1	24.473	12.2	15.6	2.37	5970	2.85	1037.31

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006063322-01	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV

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

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

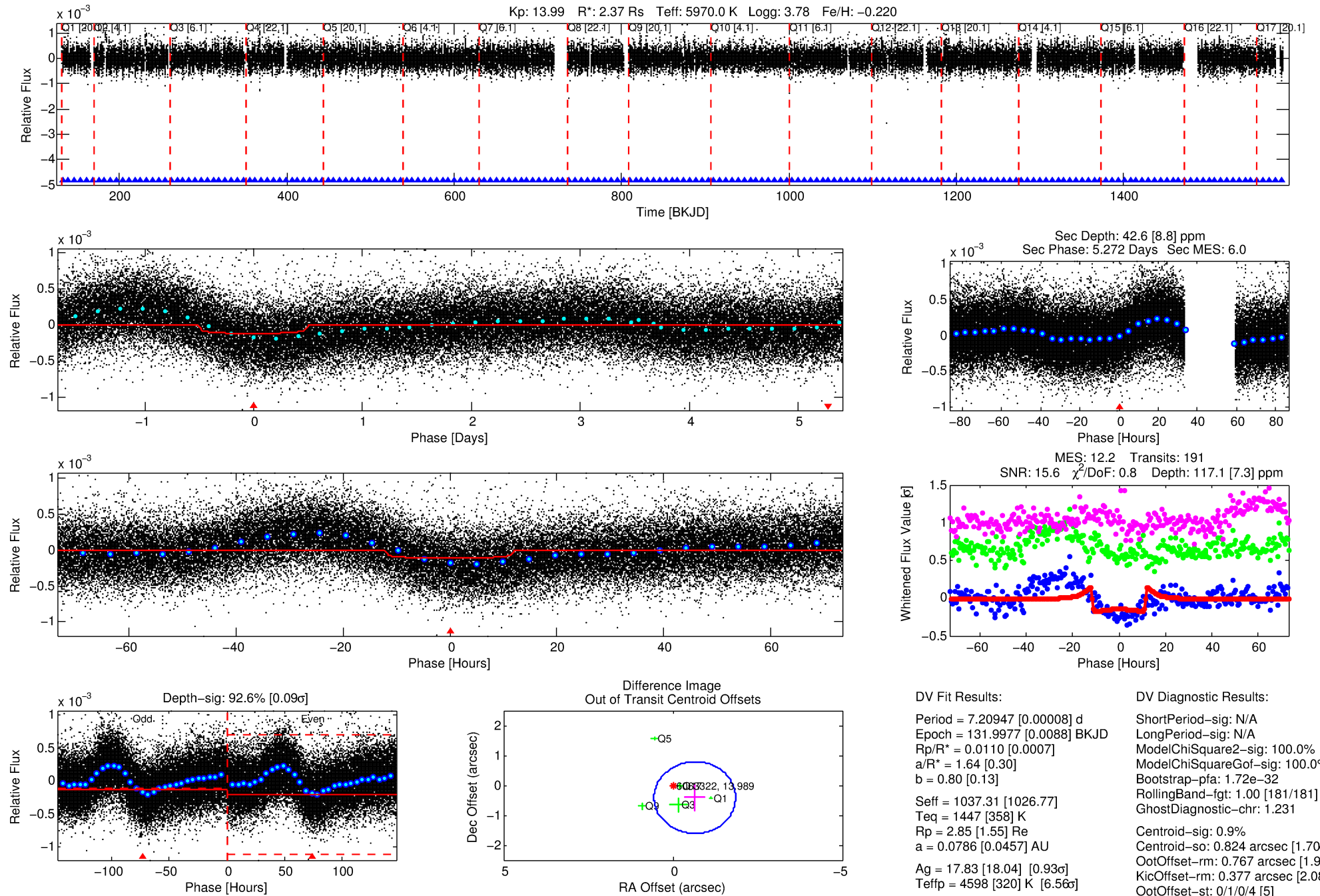
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006063322-01

No Significant Match Found

DV One-Page Summary

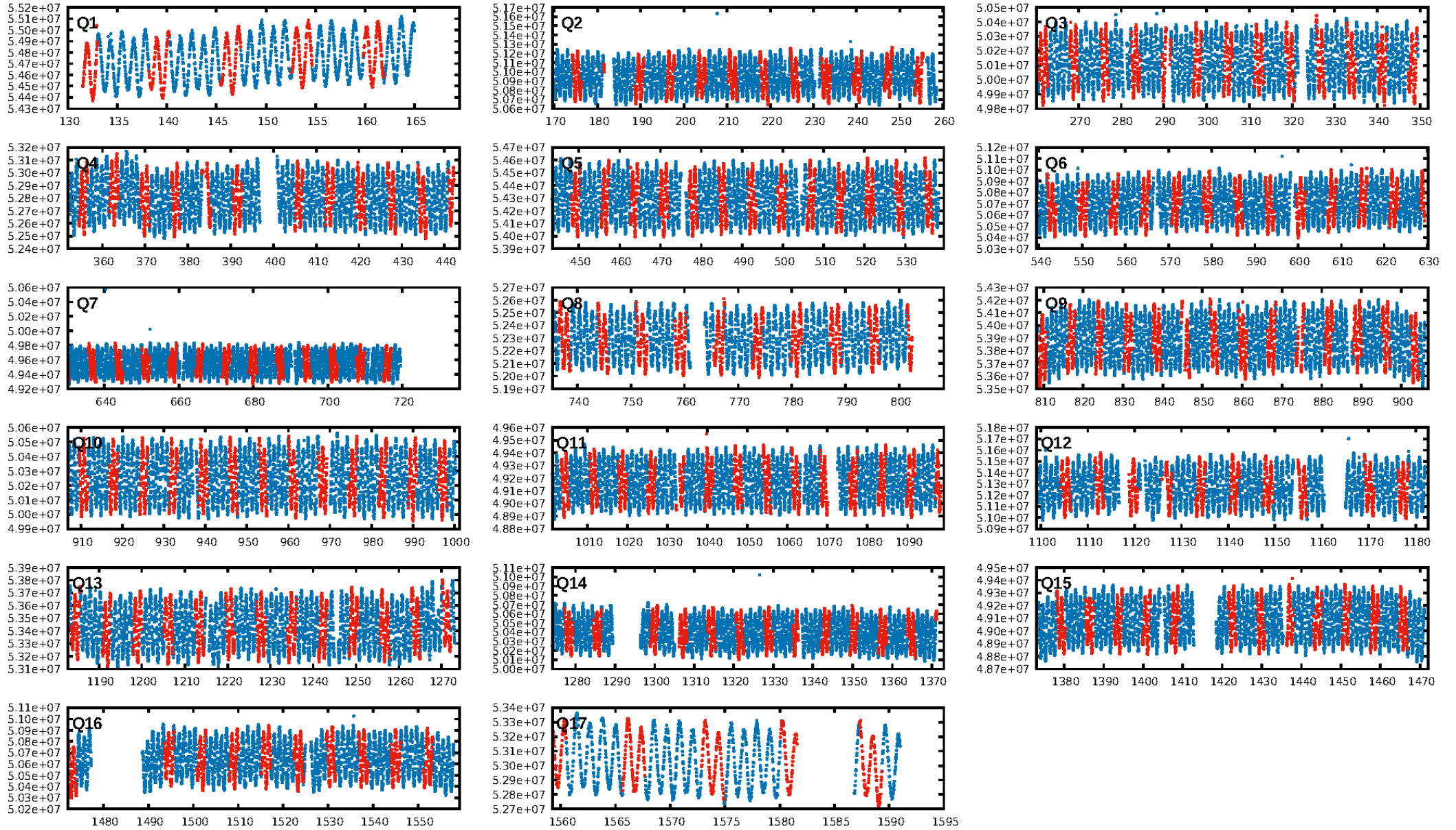
KIC: 6063322 Candidate: 1 of 1 Period: 7.209 d



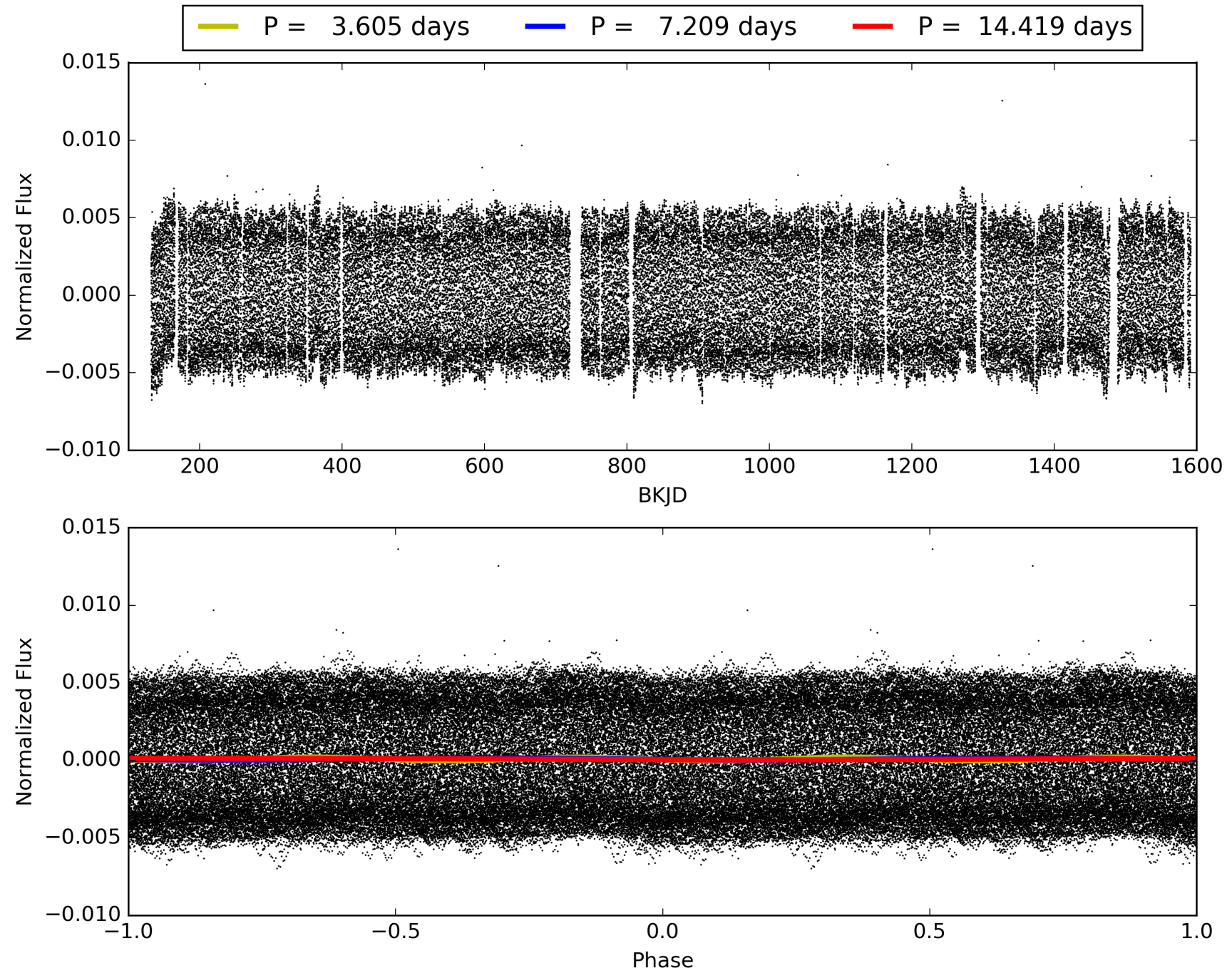
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 21:13:21 Z

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

TCE 006063322-01, PDC Light Curves

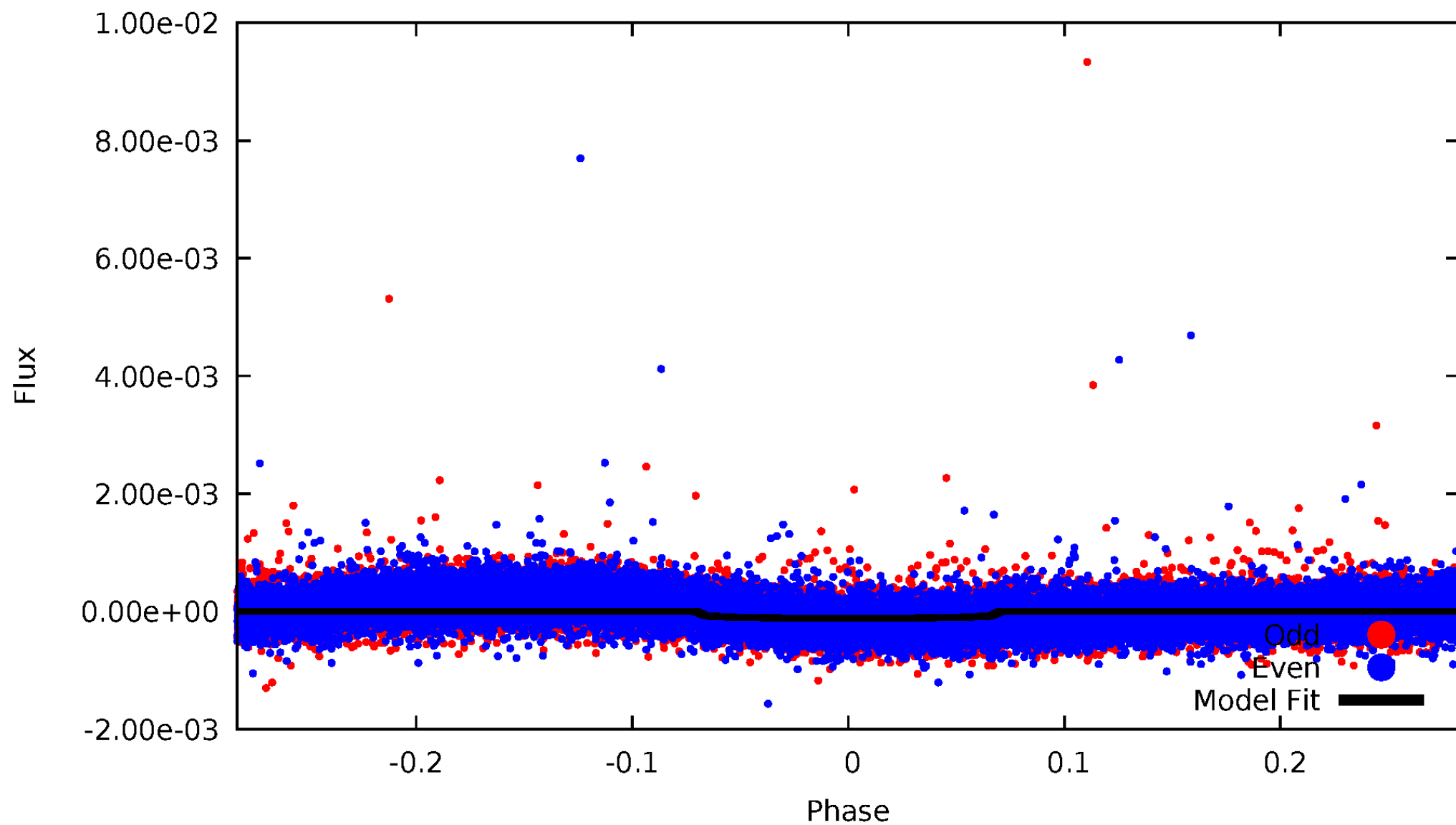


TCE 006063322-01



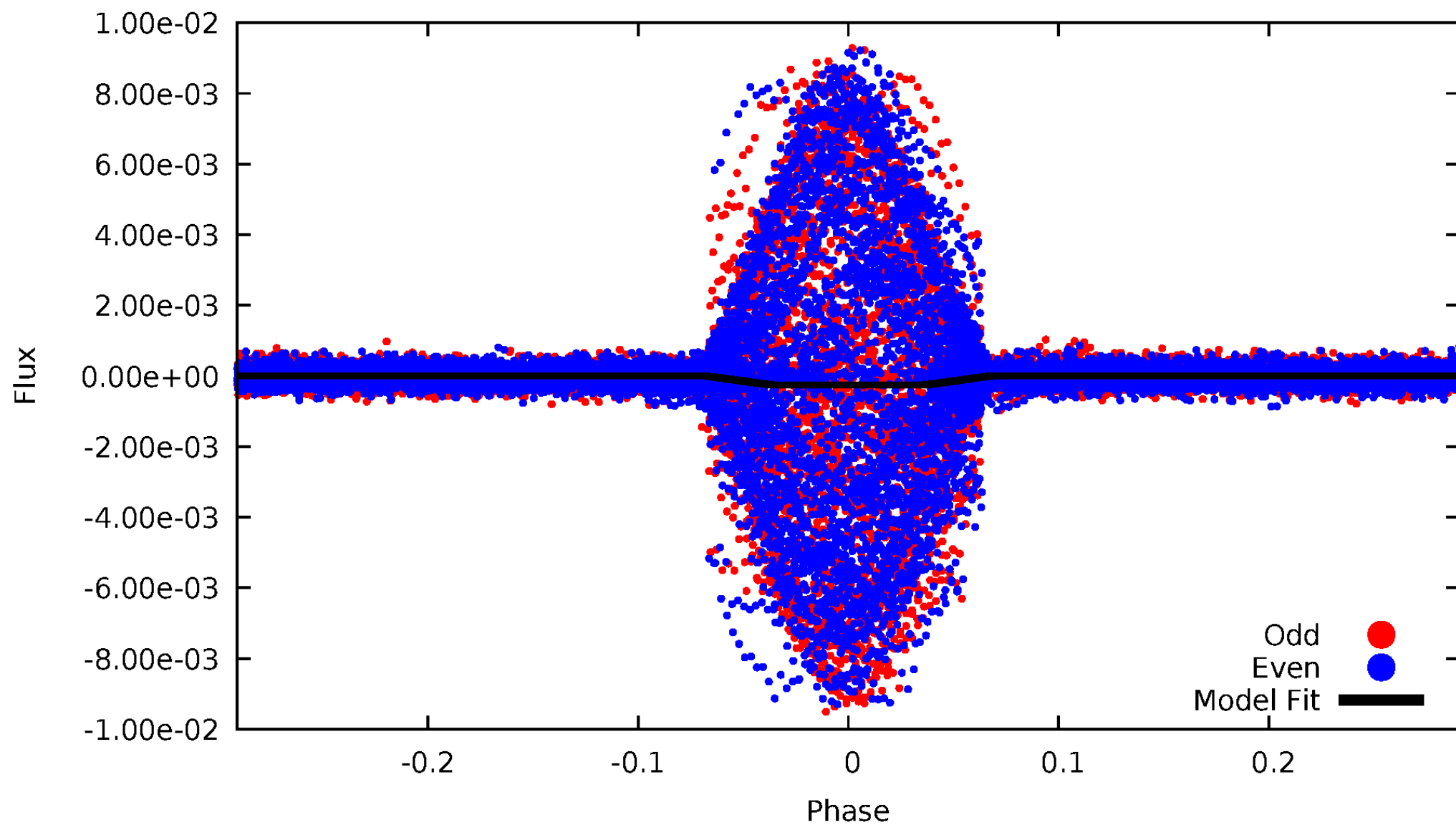
DV Odd/Even

TCE 006063322-01



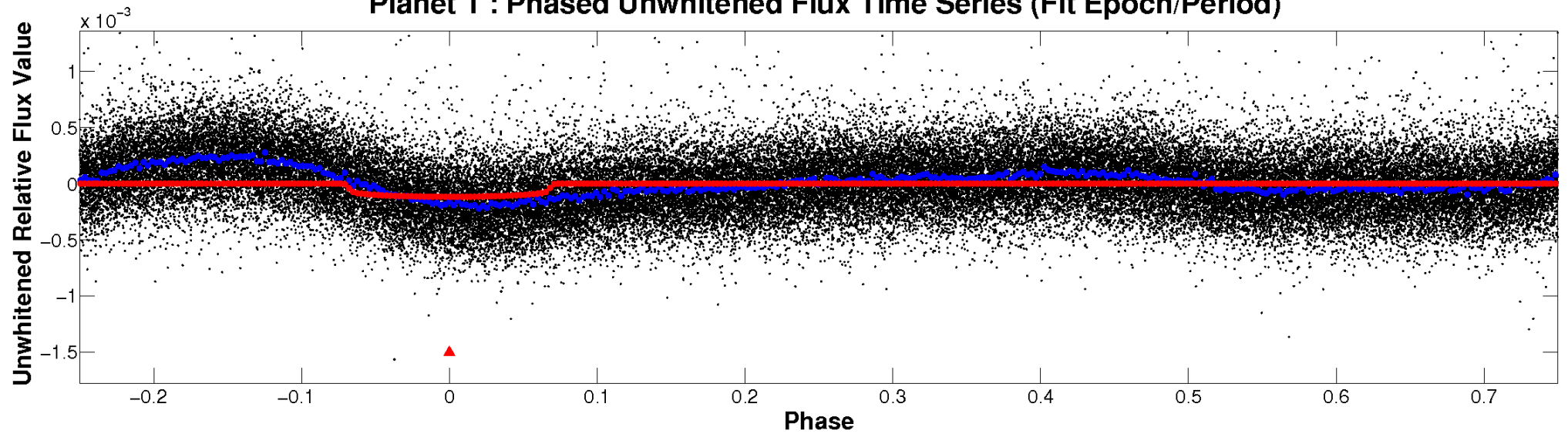
ALT Odd/Even

TCE 006063322-01

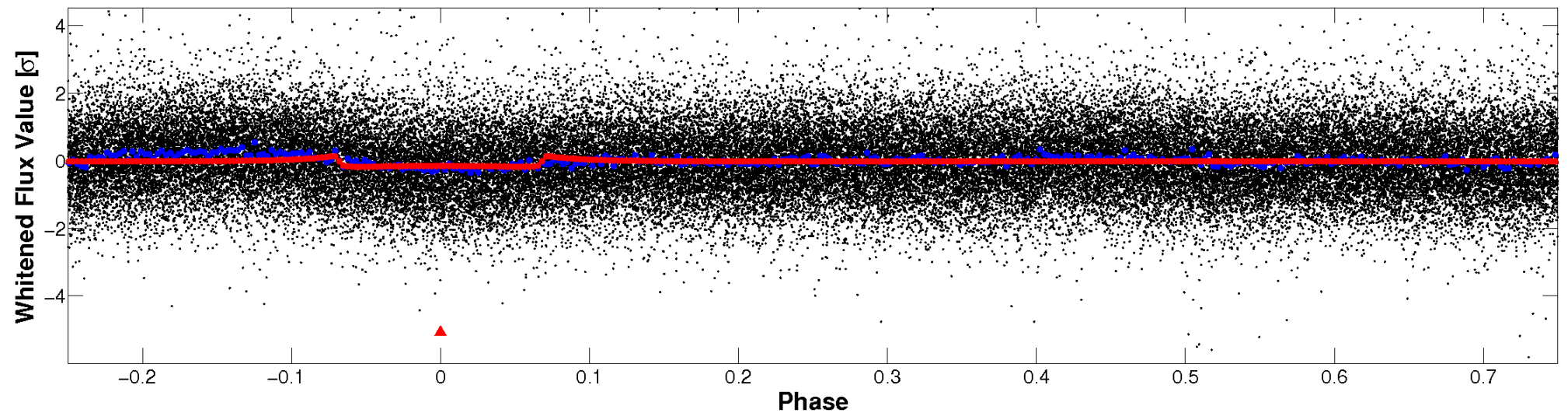


Non-Whitened Vs. Whitened Light Curve

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

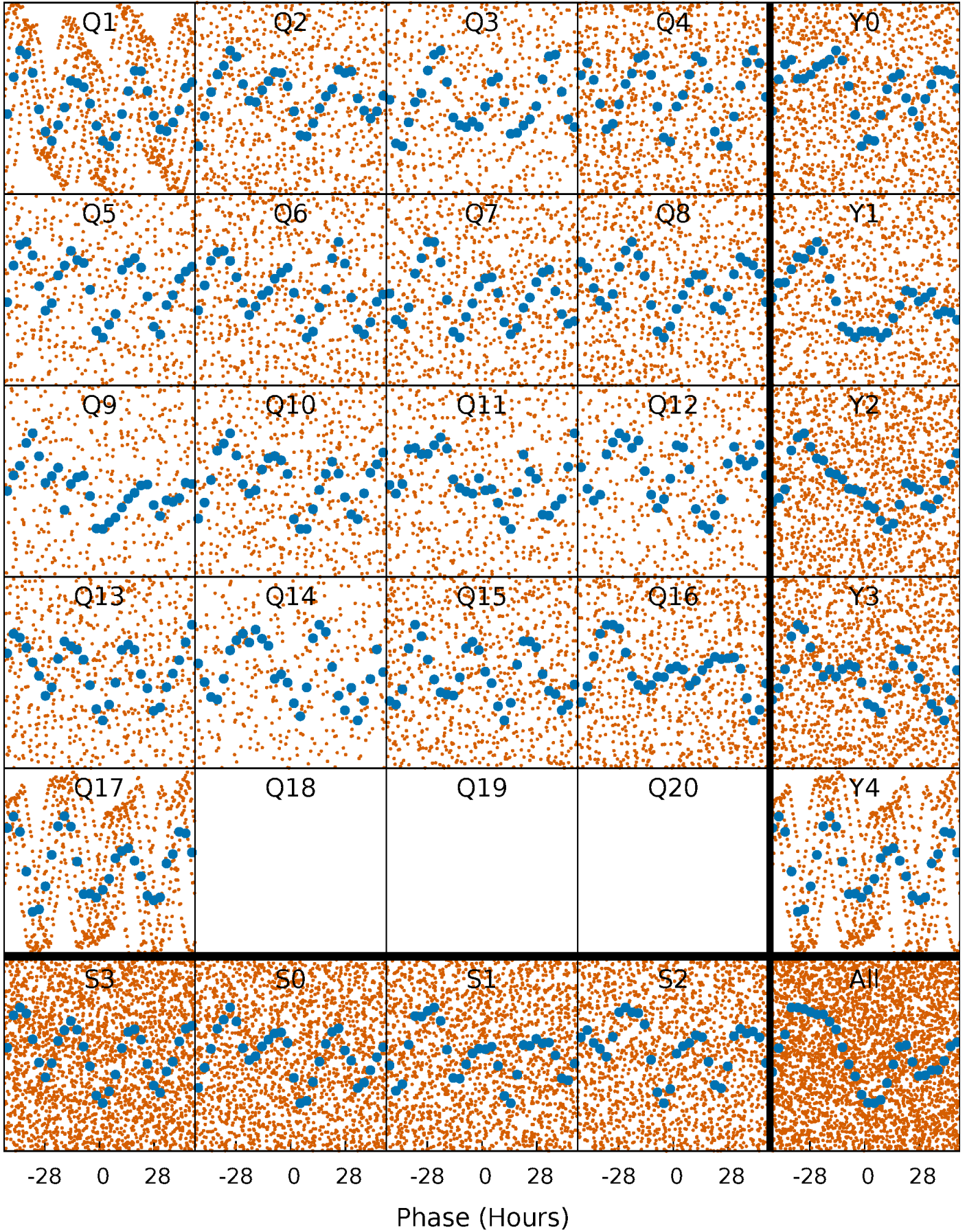


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



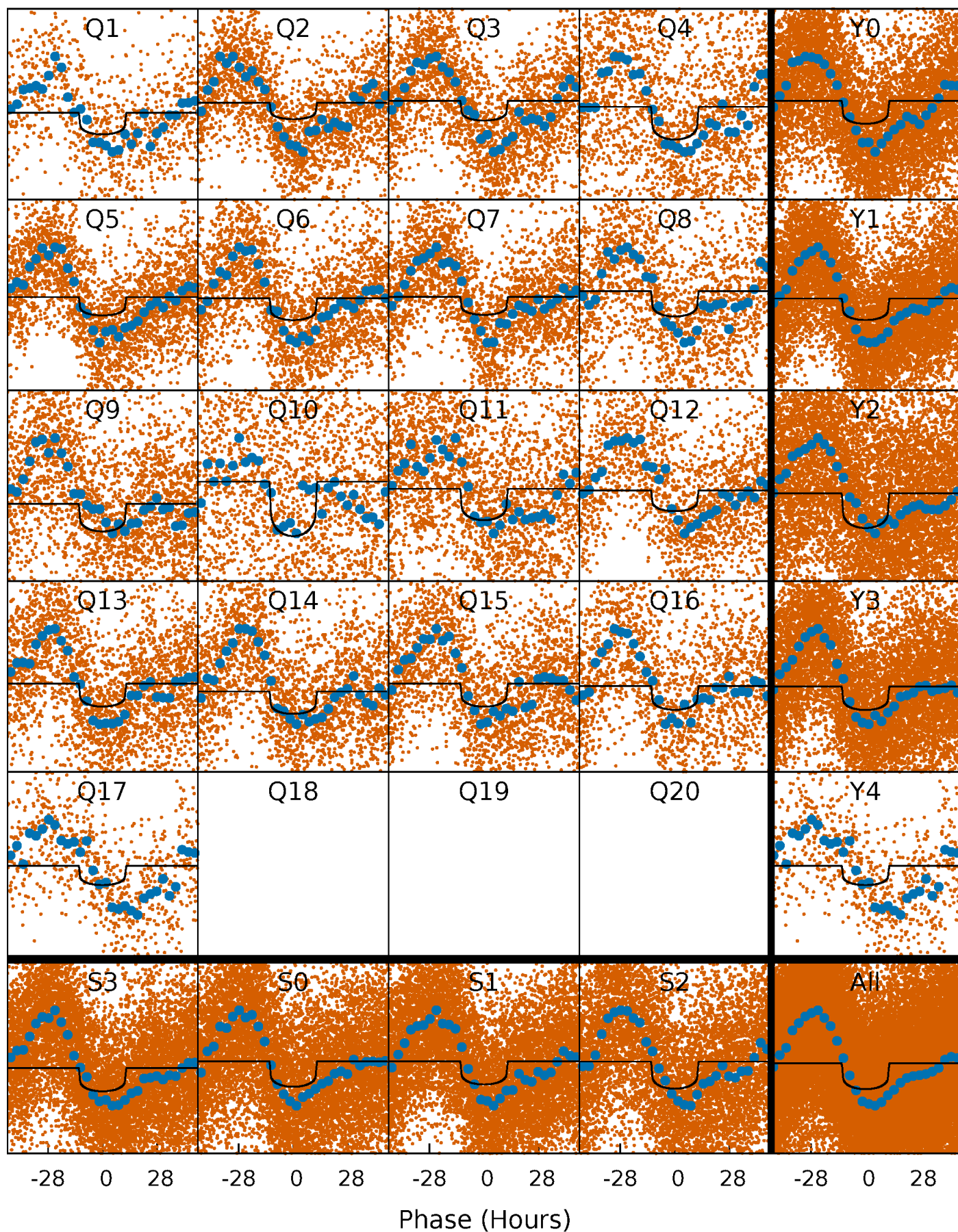
PDC Quarter-Phased Transit Curves

TCE 006063322-01 P= 7.209467 Days $T_0=131.997720$ (BKJD)



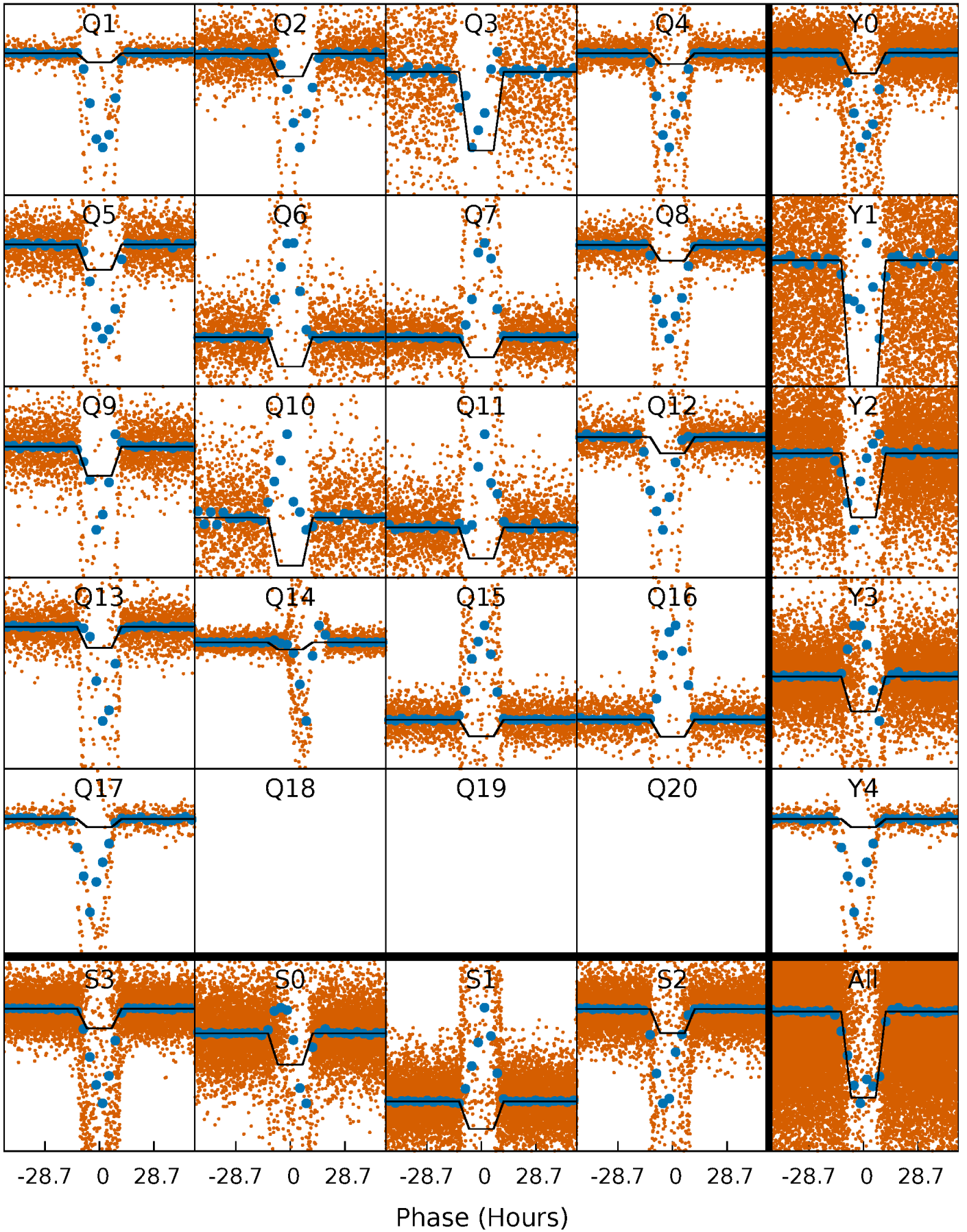
DV Quarter-Phased Transit Curves

TCE 006063322-01 P= 7.209467 Days $T_0=131.997720$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

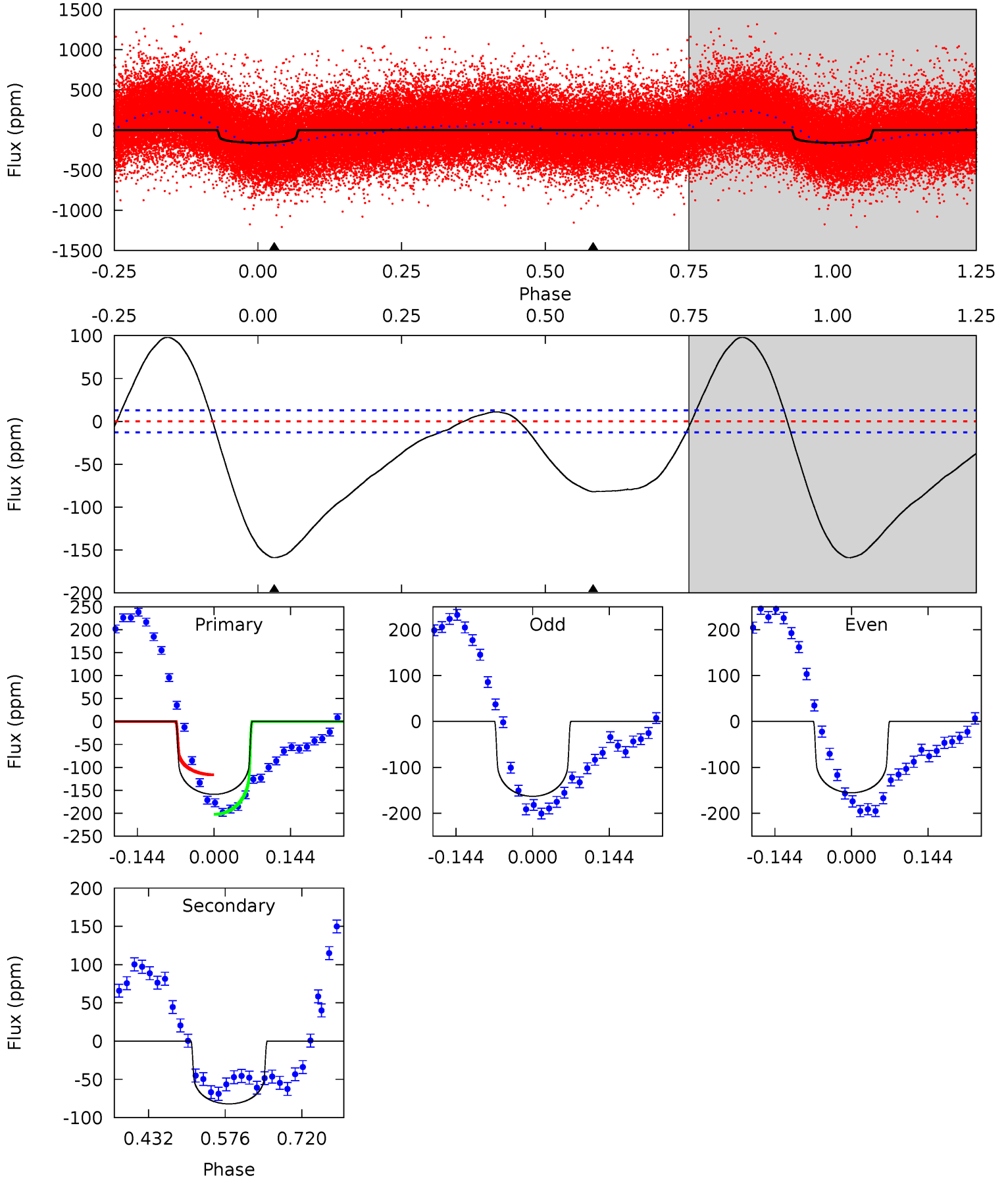
TCE 006063322-01 P= 7.208360 Days $T_0=132.073832$ (BKJD)



DV Model-Shift Uniqueness Test

006063322-01, P = 7.209467 Days, E = 124.788253 Days

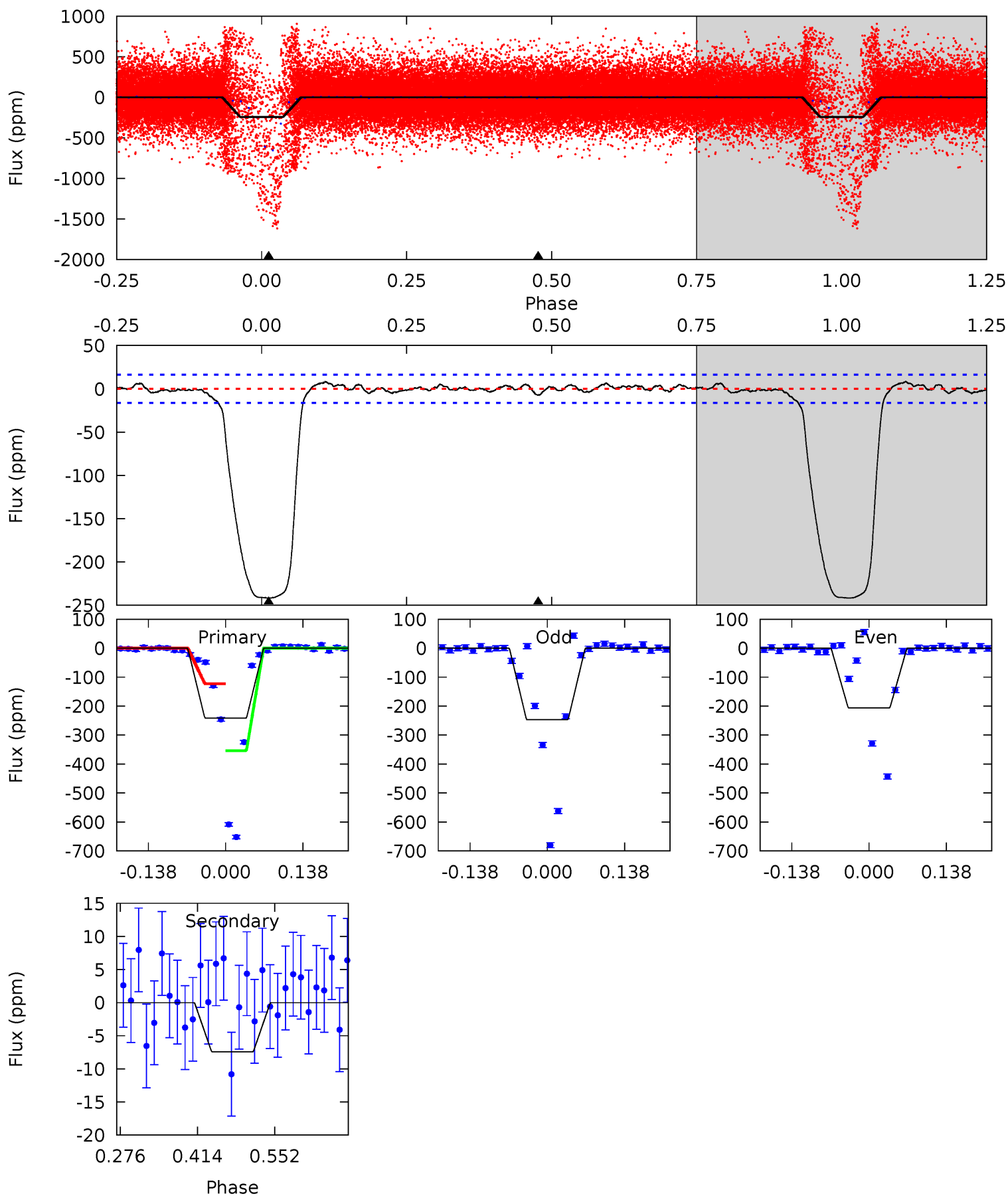
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
55.7	28.8	0	0	4.49	1.46	17.3	55.7	55.7	28.8	28.8	1.34	0.96	0.38	15.6



Alt Model-Shift Uniqueness Test

006063322-01, P = 7.208360 Days, E = 124.865472 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
66.2	2.04	0	0	4.50	1.48	0.71	66.2	66.2	2.04	2.04	5.47	0.44	0.03	0



Stellar Parameters For KIC 006063322

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5970^{+192}_{-192}	$3.783^{+0.595}_{-0.140}$	$-0.220^{+0.300}_{-0.300}$	$2.374^{+0.548}_{-1.279}$	$1.248^{+0.176}_{-0.326}$	$0.131^{+1.027}_{-0.051}$
	+3%/-3%	+16%/-4%	+136%/-136%	+23%/-54%	+14%/-26%	+782%/-39%
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 006063322-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-82 ± 3	$2.71^{+0.49}_{-0.79}$	1964^{+168}_{-295}	5431^{+258}_{-230}	38^{+35}_{-10}
Alt.	-7 ± 4	$3.92^{+0.66}_{-1.08}$	1973^{+156}_{-279}	3028^{+217}_{-377}	$1.732^{+1.675}_{-0.891}$

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

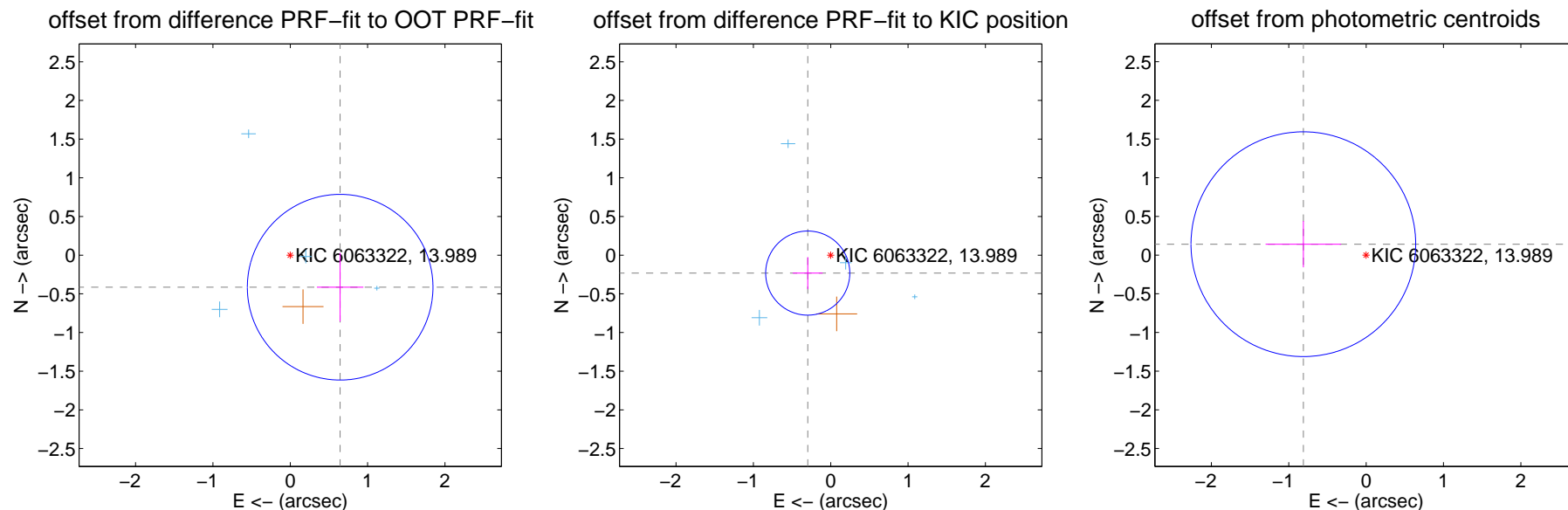
DV Centroid Data

Supplemental centroid analysis for 006063322-01. Kepler magnitude: 13.99. Transit SNR 15.60

There are 7 quarters with good PRF difference image offsets

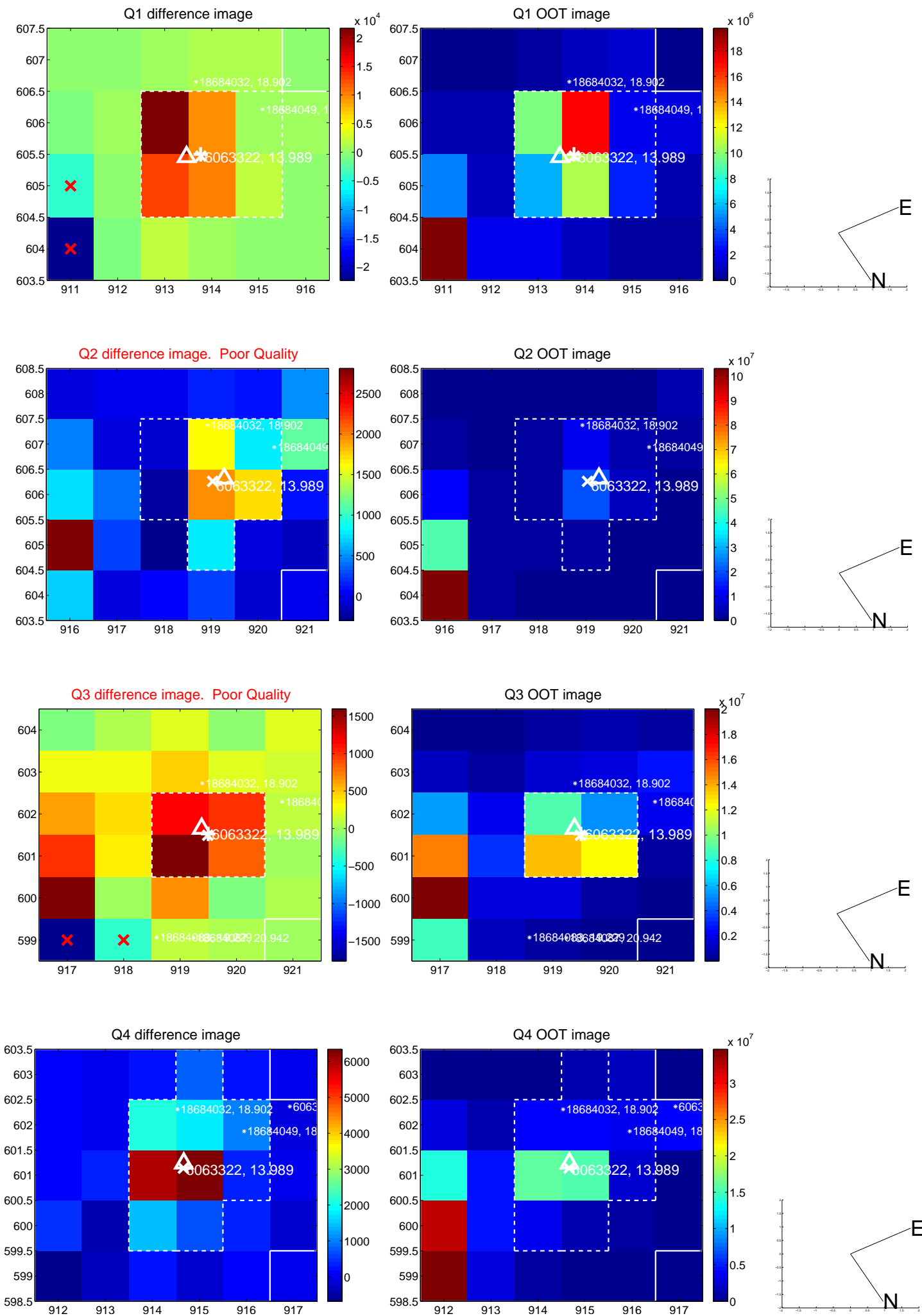
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.767 ± 0.400	1.92	-0.645 ± 0.300	-0.414 ± 0.444
PRF-fit source offset from KIC position	0.377 ± 0.181	2.08	0.297 ± 0.193	-0.232 ± 0.207
photometric centroid source offset	0.82 ± 0.48	1.70	0.81 ± 0.49	0.14 ± 0.30

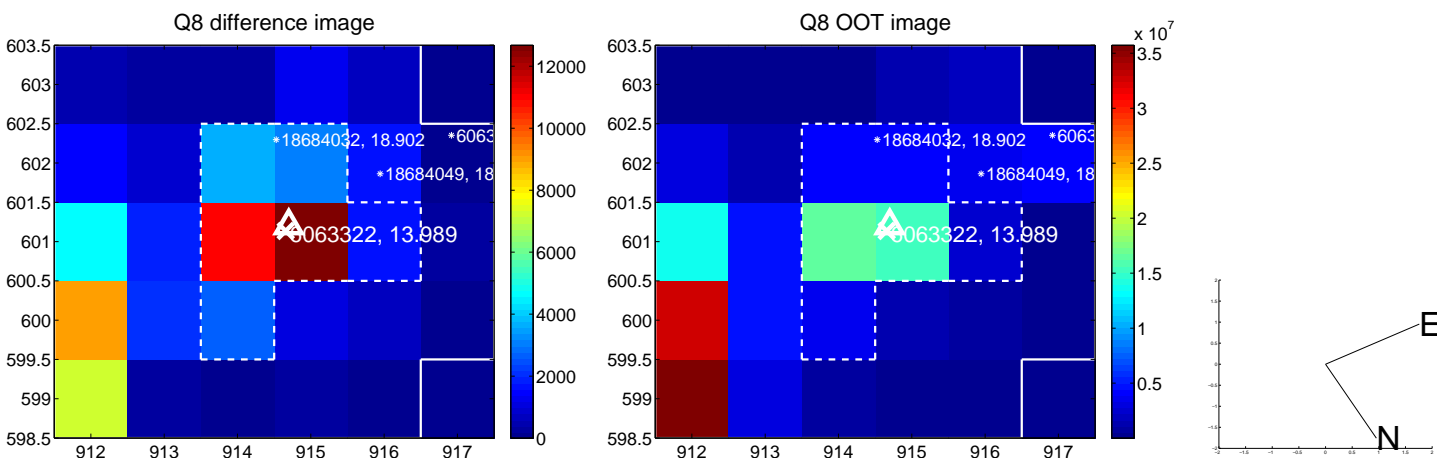
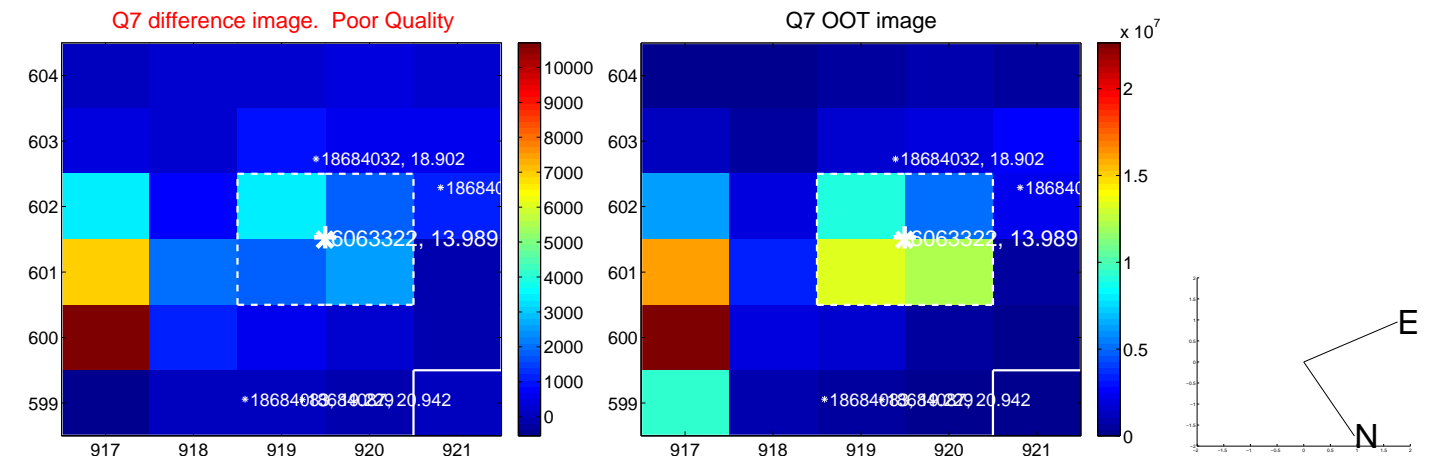
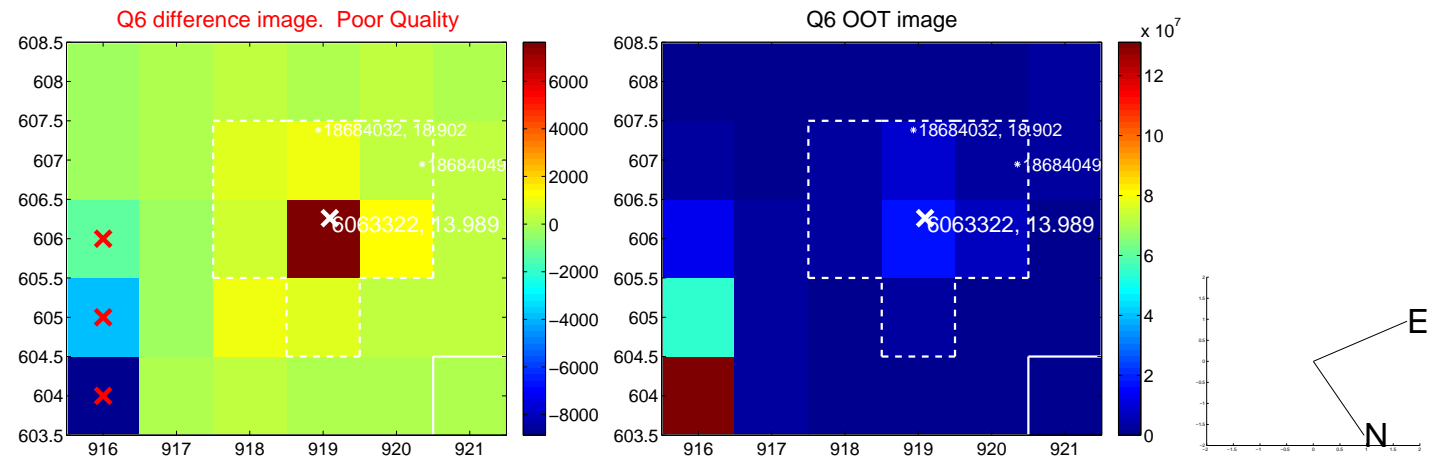
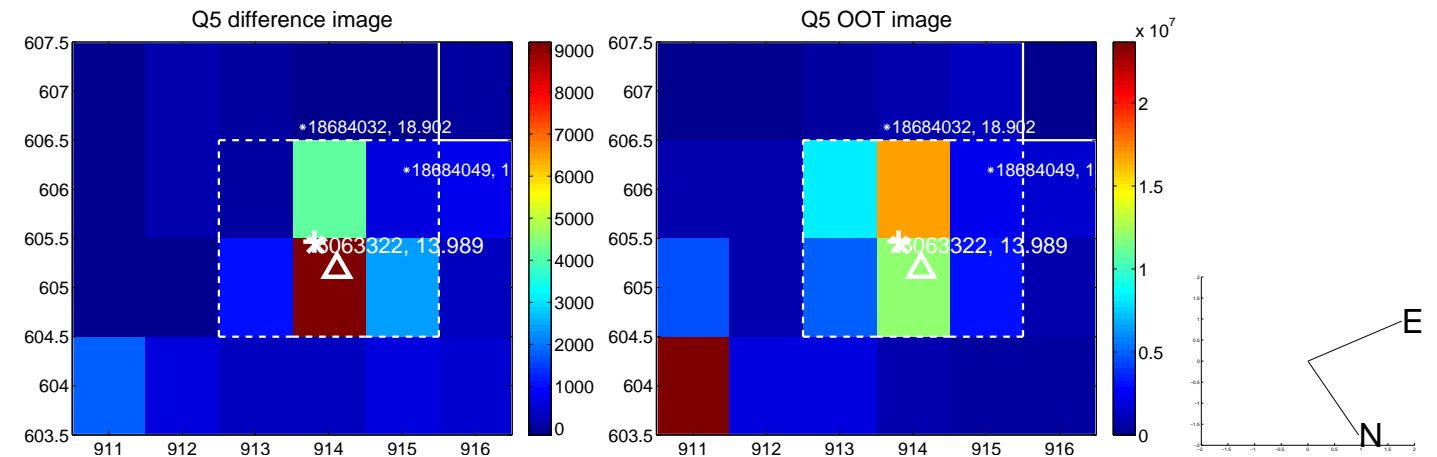


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

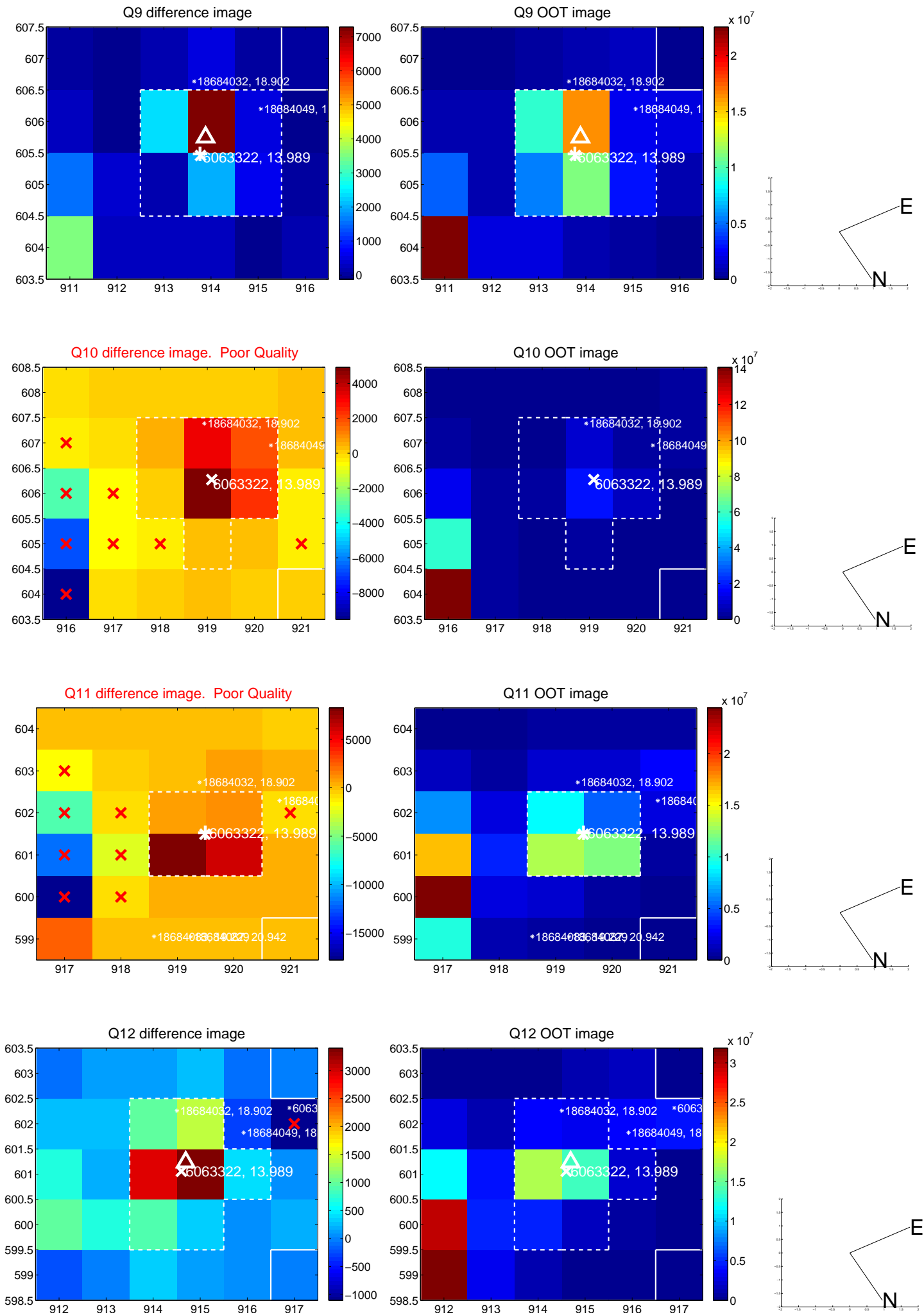
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



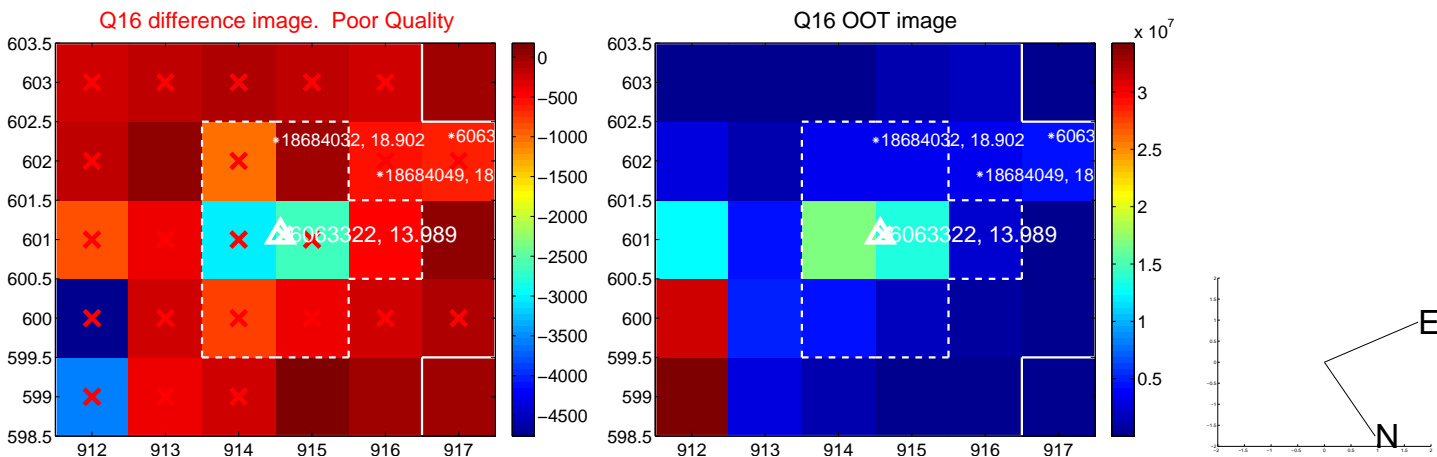
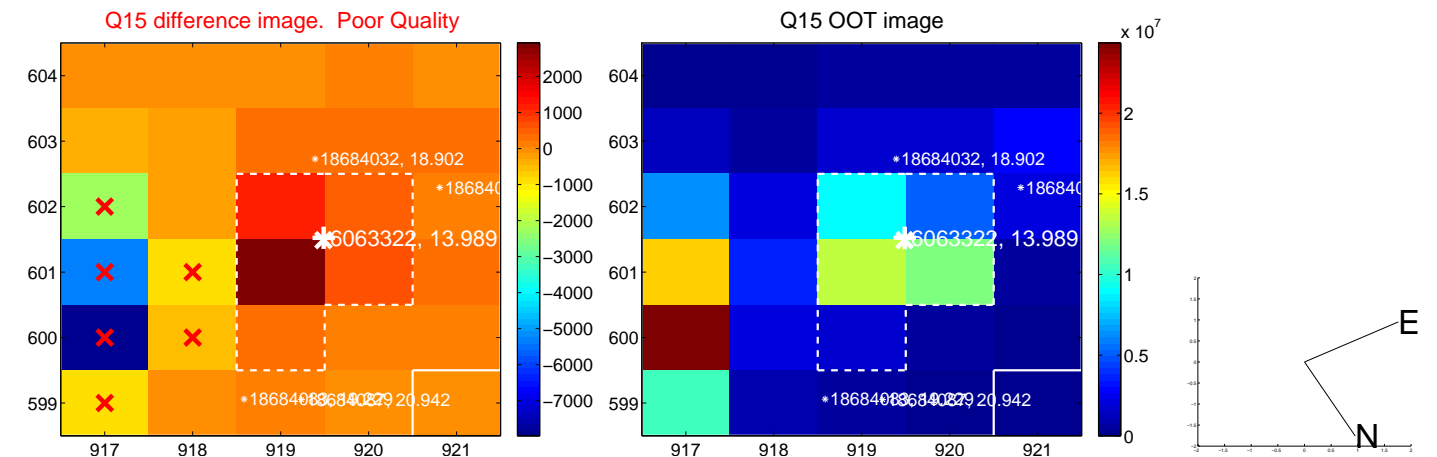
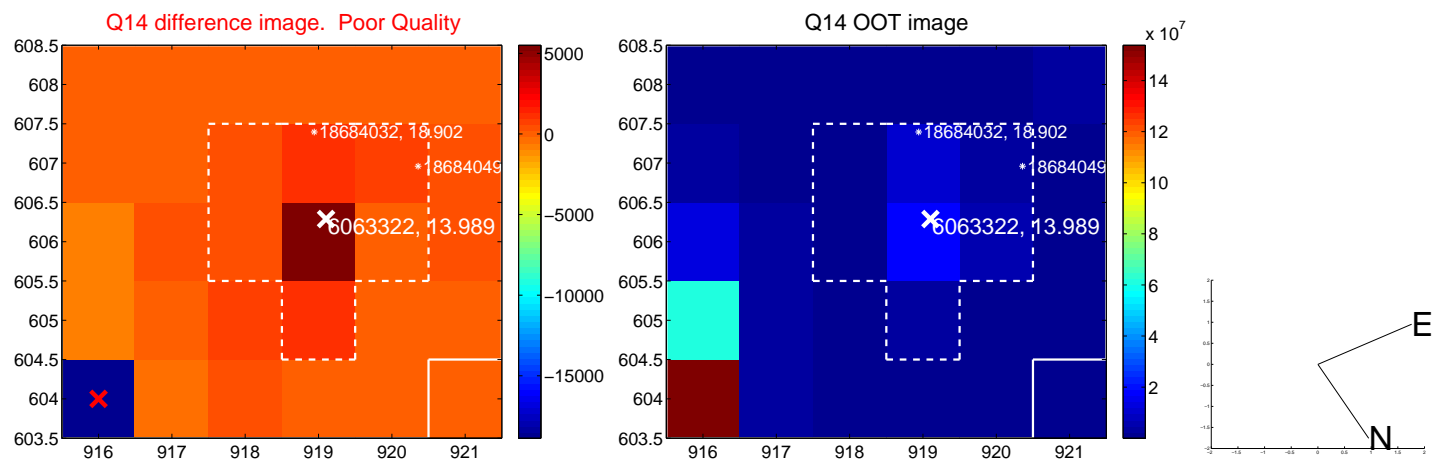
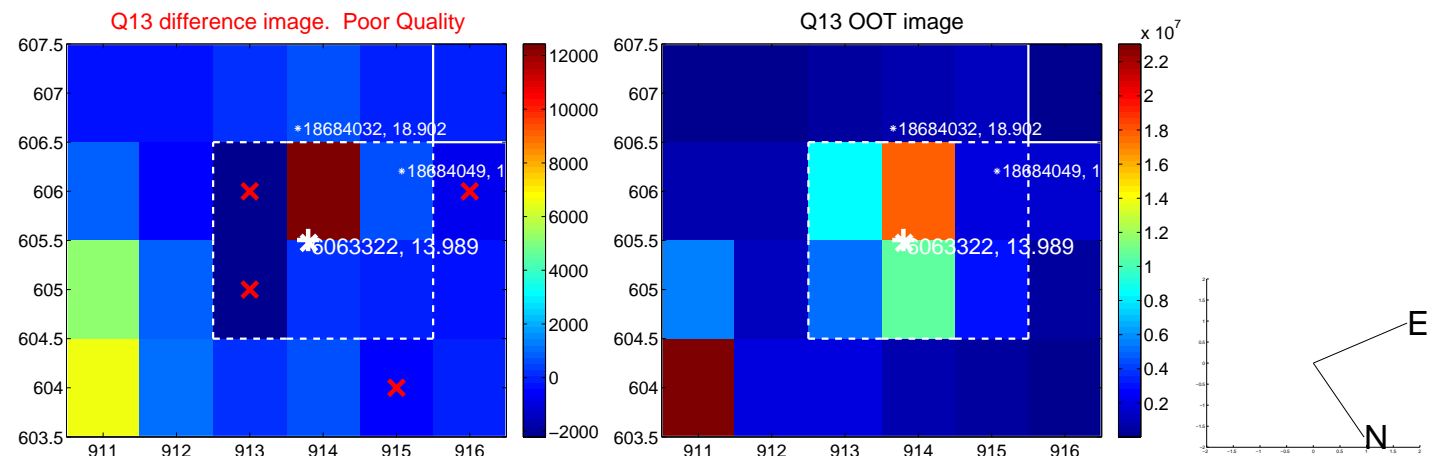
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



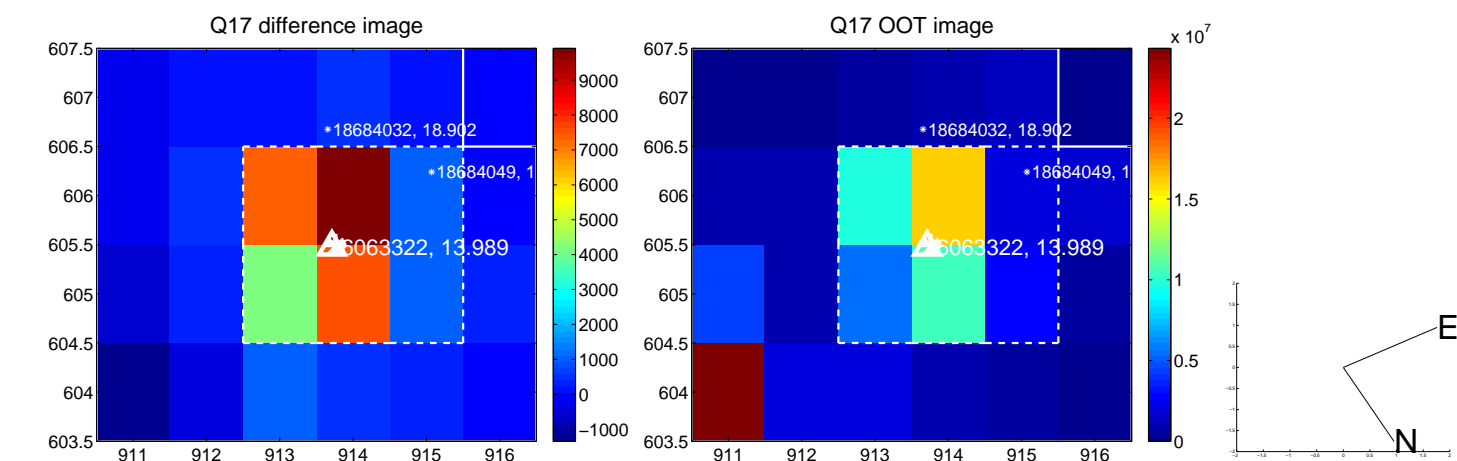
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



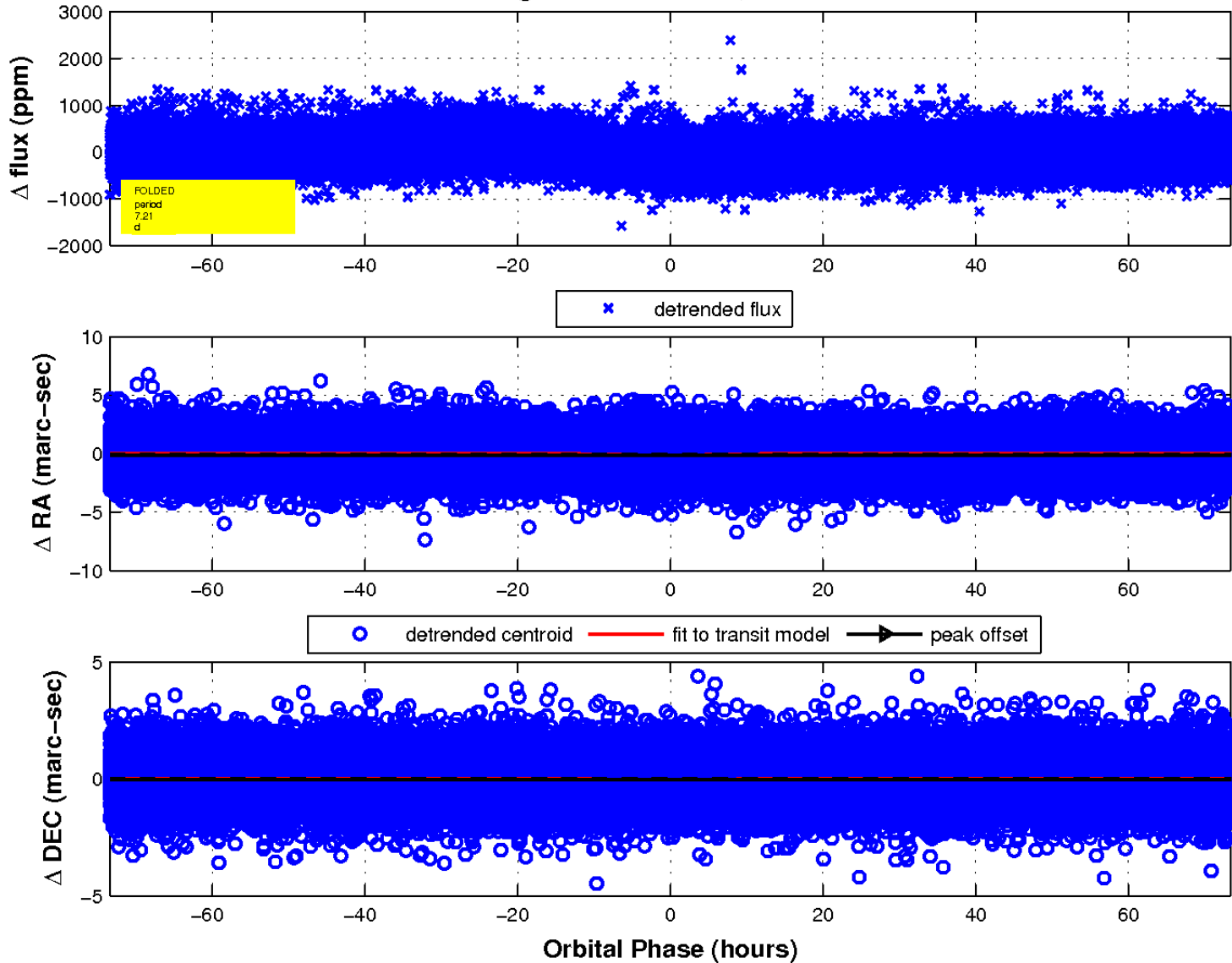
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

