

KIC 006963153

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})
006963153-01	OBS	No	0.509699	131.707559	5.3	4.826	7.9	7.4	2.28	7800	0.56	72844.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006963153-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL—LPP_DV—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.

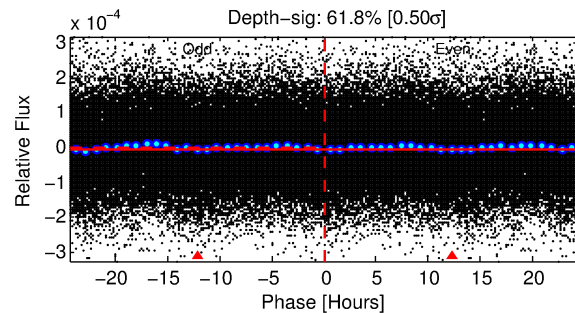
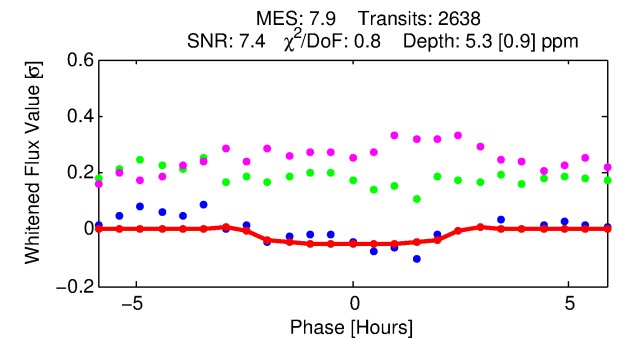
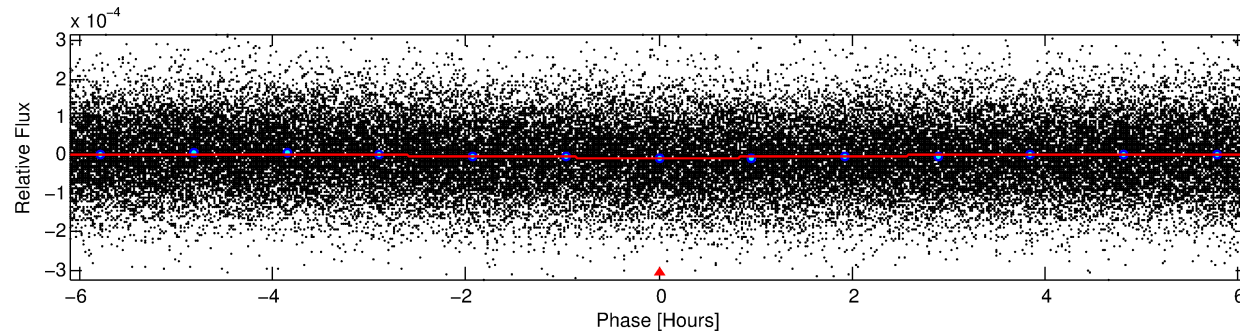
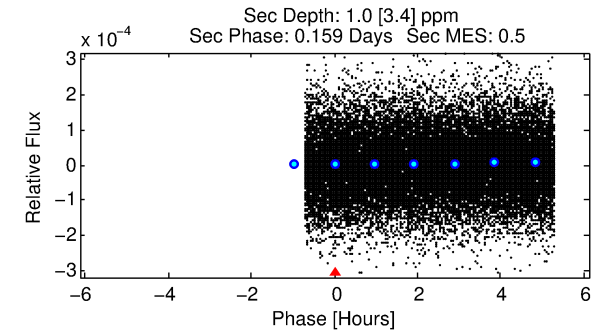
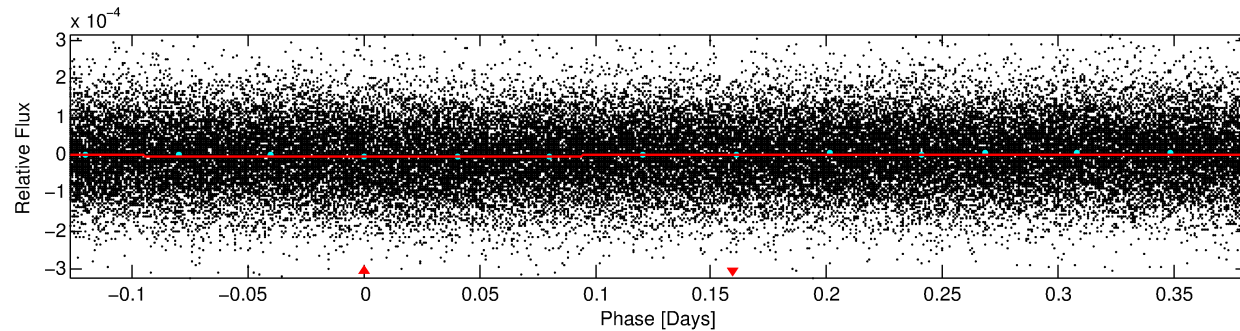
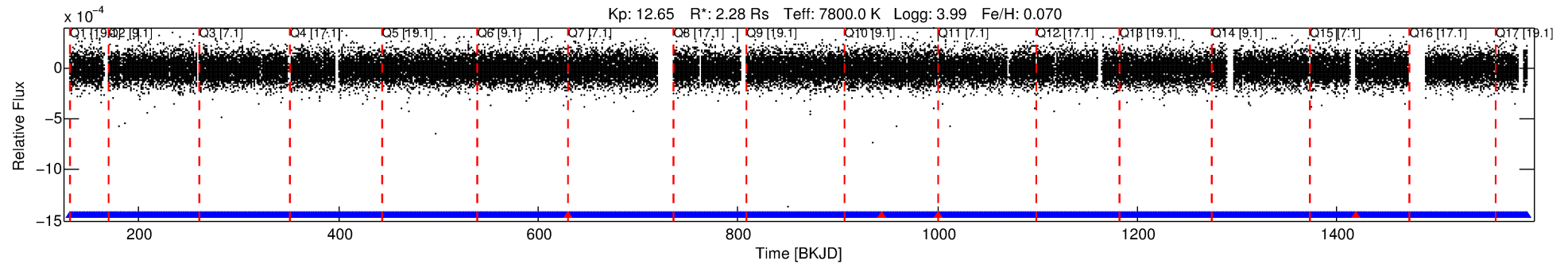
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006963153-01

No Significant Match Found

DV One-Page Summary

KIC: 6963153 Candidate: 1 of 1 Period: 0.510 d



DV Fit Results:

Period = 0.50970 [0.00001] d
Epoch = 131.7076 [0.0062] BKJD
Rp/R* = 0.0023 [0.0023]
a/R* = 1.03 [0.38]
b = 0.72 [4.33]
Seff = 72844.65 [26837.60]
Teq = 4189 [386] K
Rp = 0.56 [0.60] Re
a = 0.0154 [0.0035] AU
Ag = 0.39 [1.63] [-0.37σ]
Teffp = 5132 [5296] K [0.18σ]

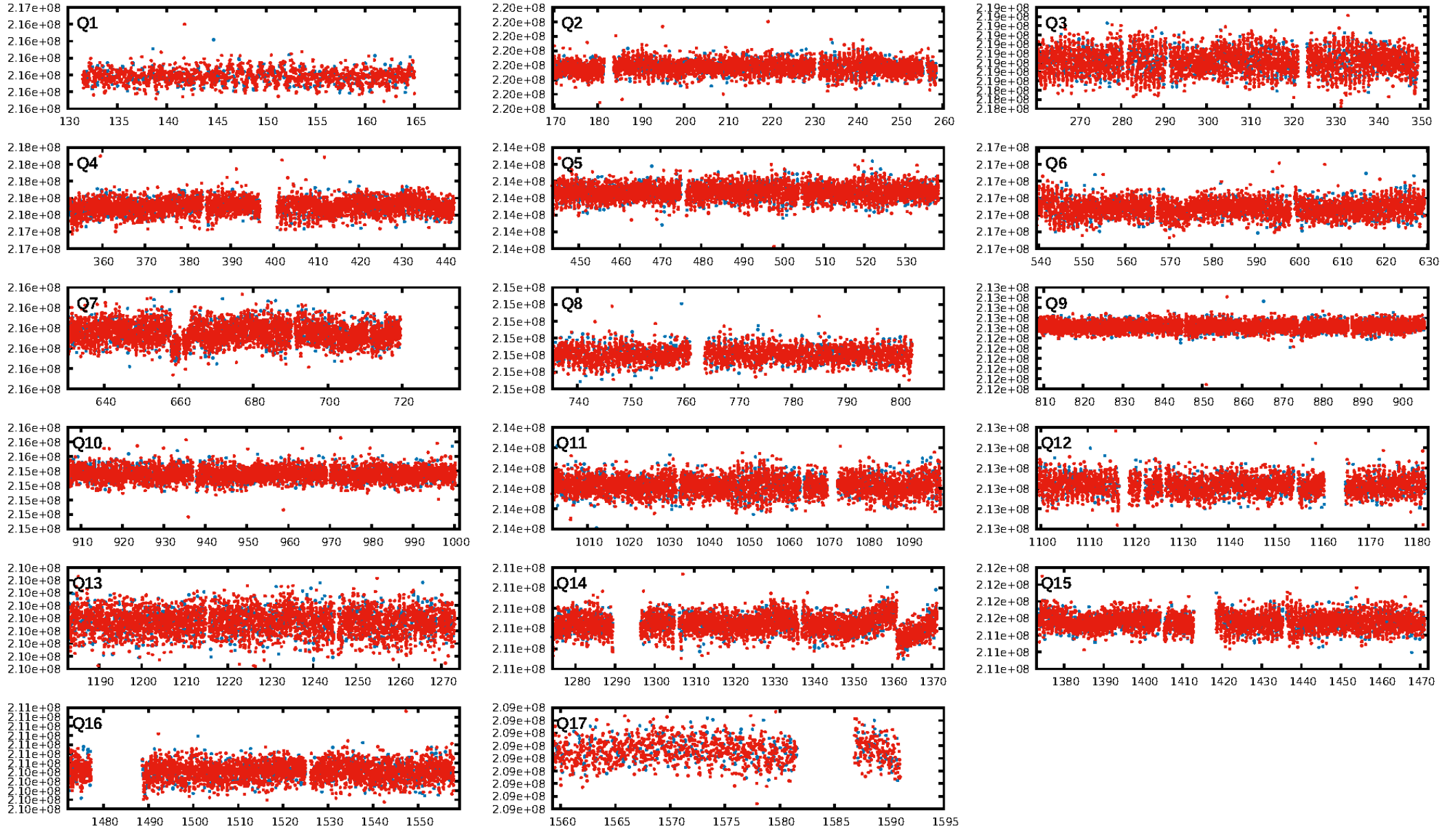
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2515/2519]
GhostDiagnostic-chr: 2.158
Centroid-sig: 33.1%
Centroid-so: 1.776 arcsec [1.21σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

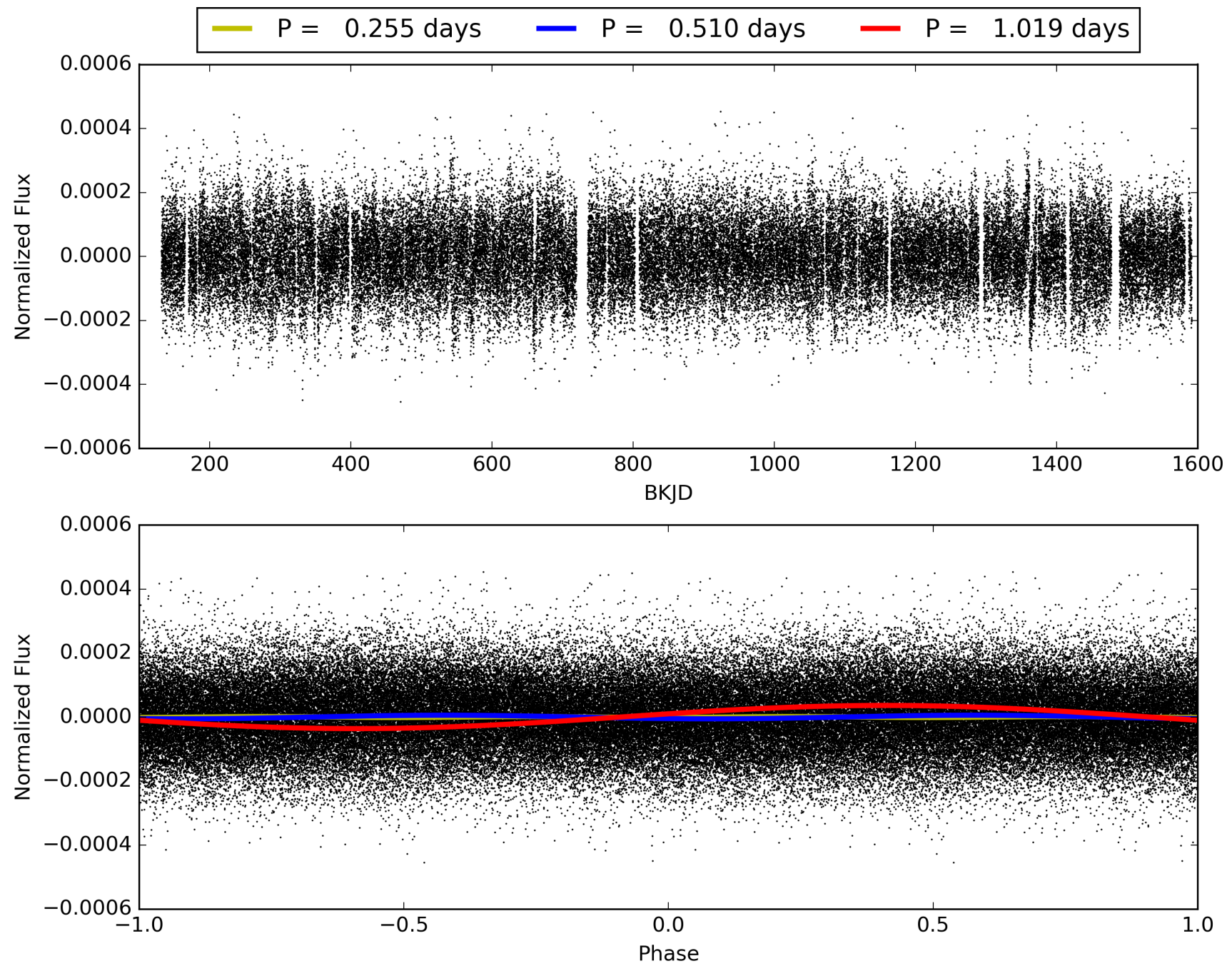
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 19:03:11 Z

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

TCE 006963153-01, PDC Light Curves

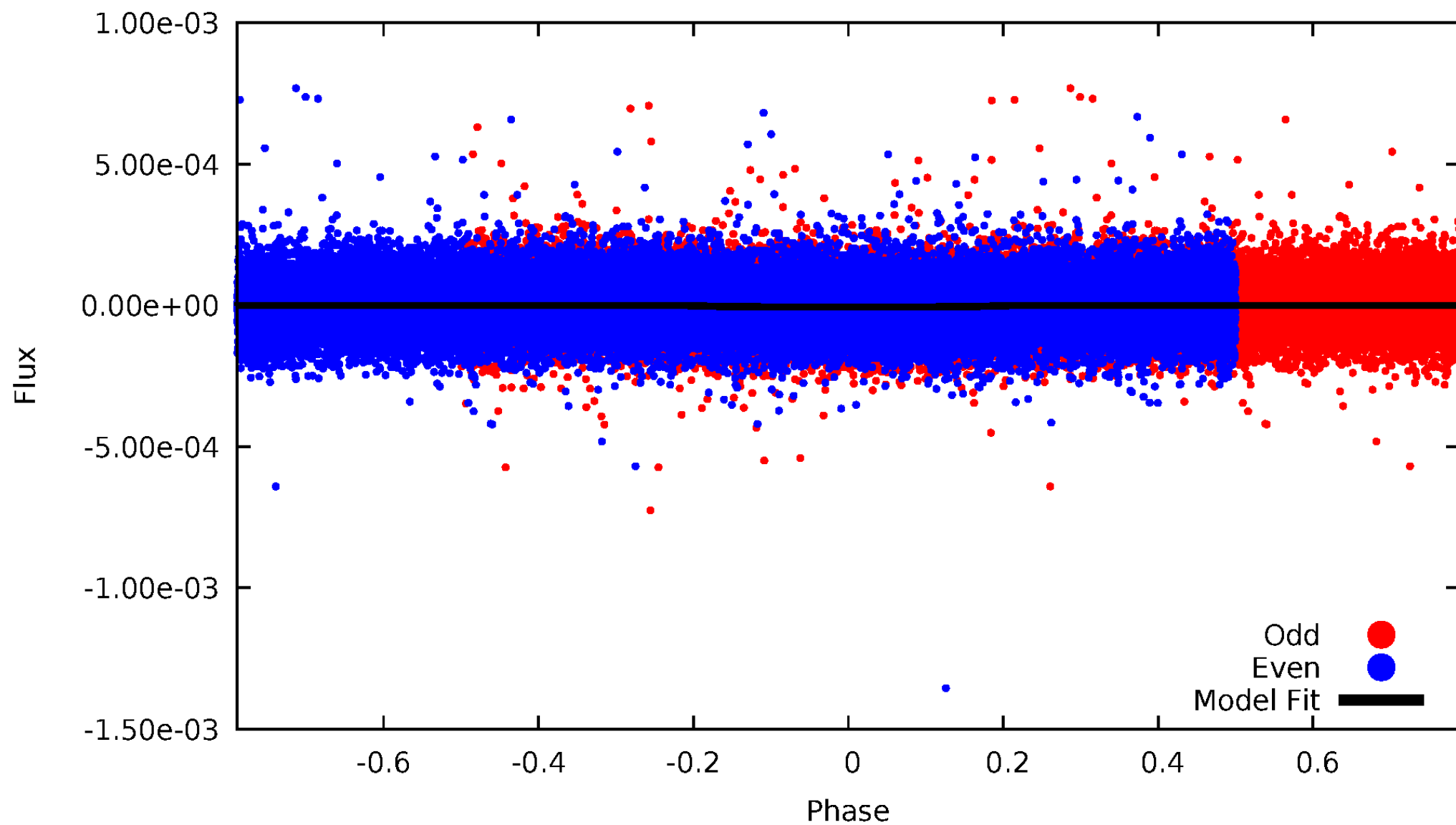


TCE 006963153-01



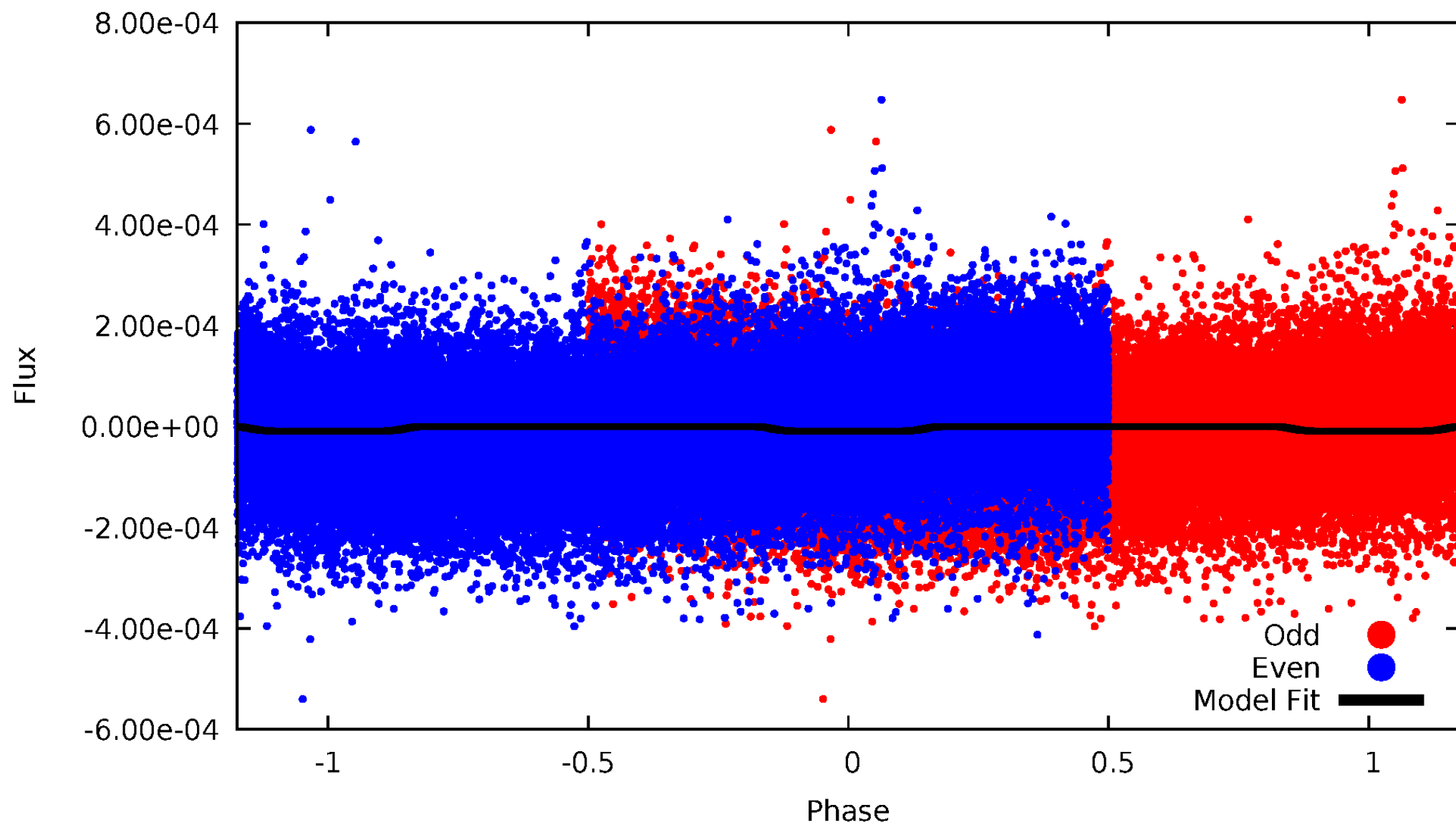
DV Odd/Even

TCE 006963153-01



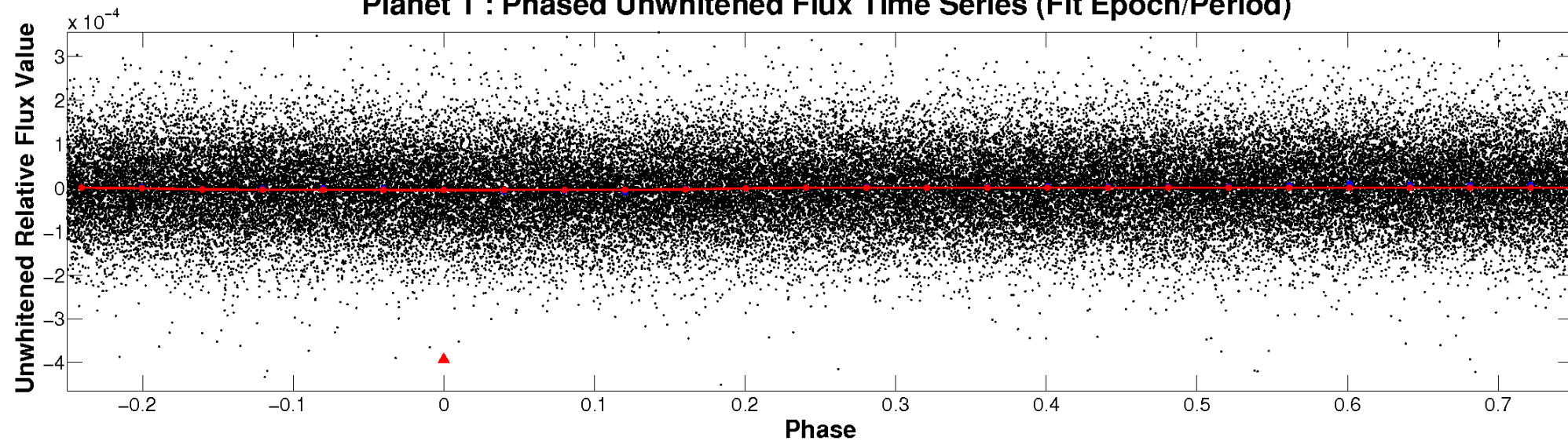
ALT Odd/Even

TCE 006963153-01

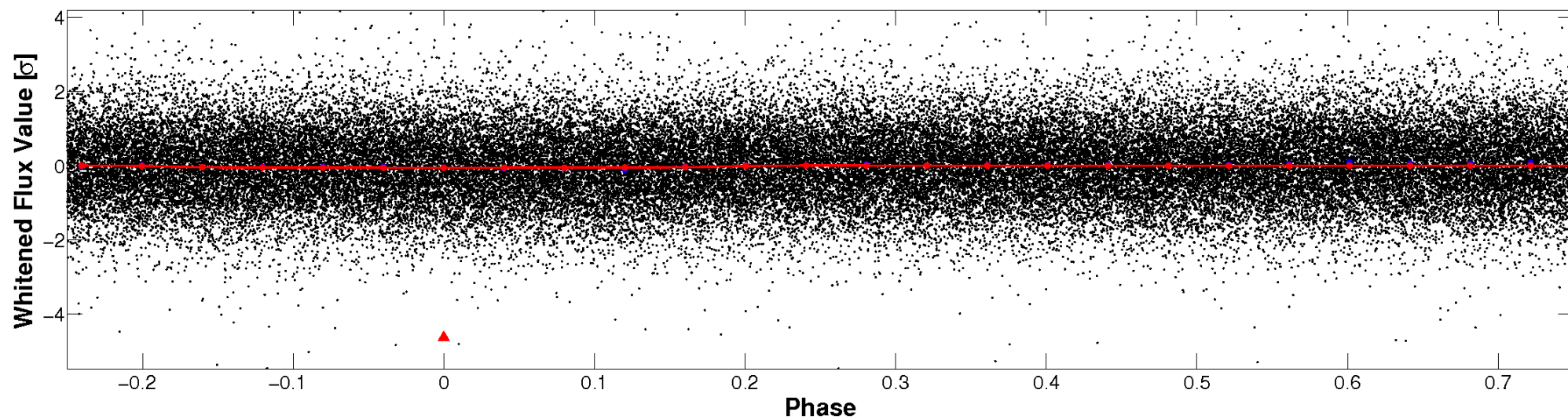


Non-Whitened Vs. Whitened Light Curve

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

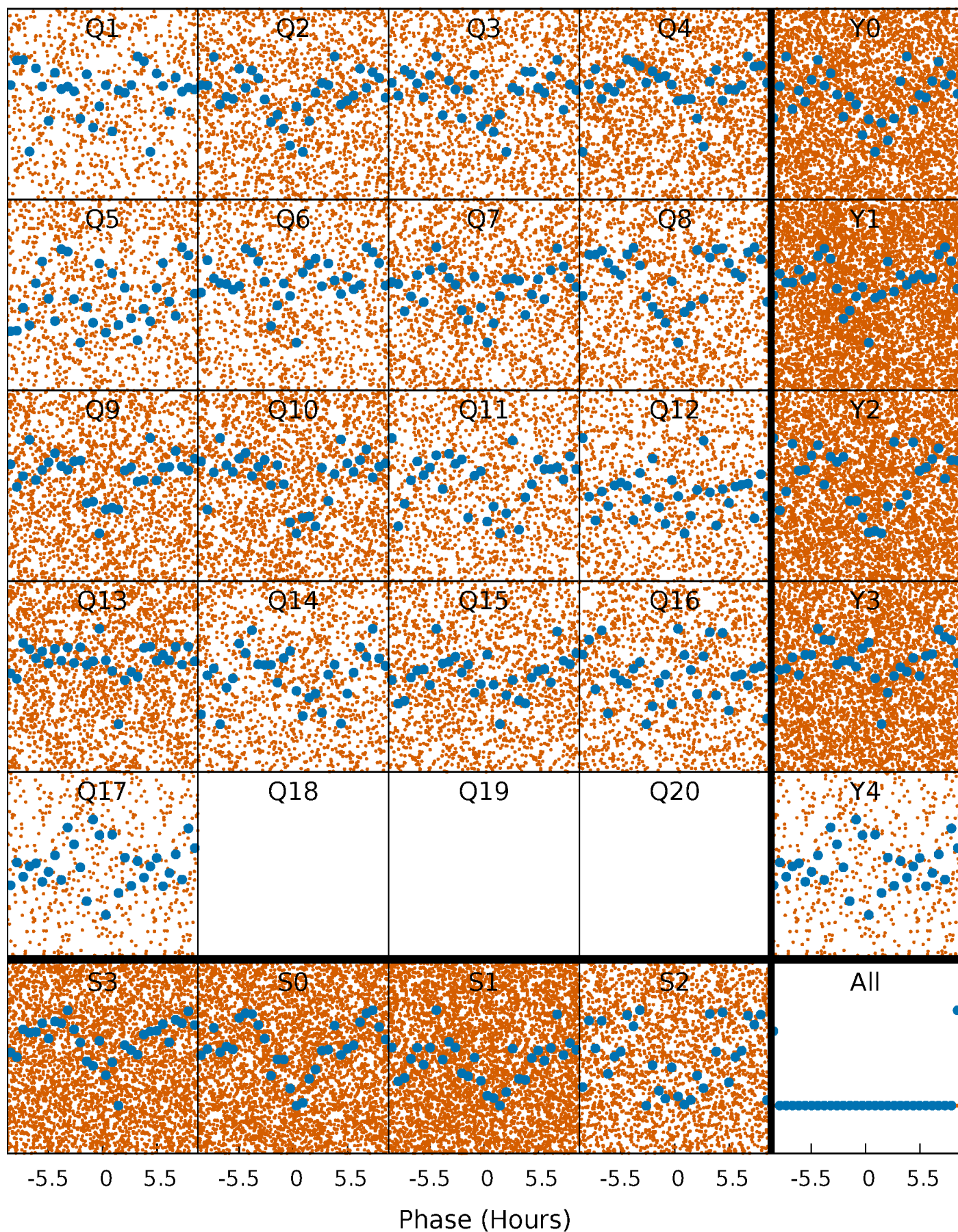


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



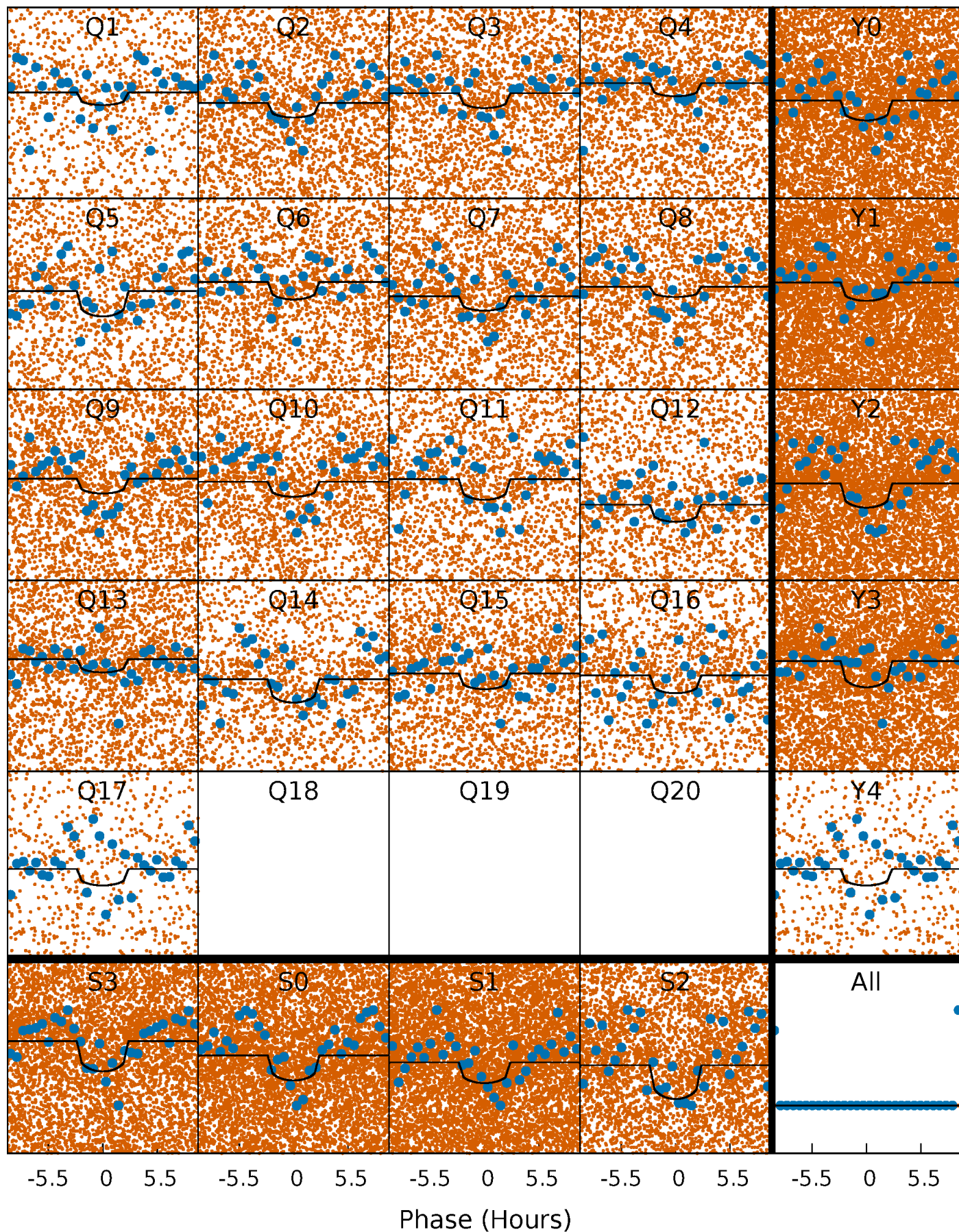
PDC Quarter-Phased Transit Curves

TCE 006963153-01 P= 0.509699 Days $T_0=131.707559$ (BKJD)



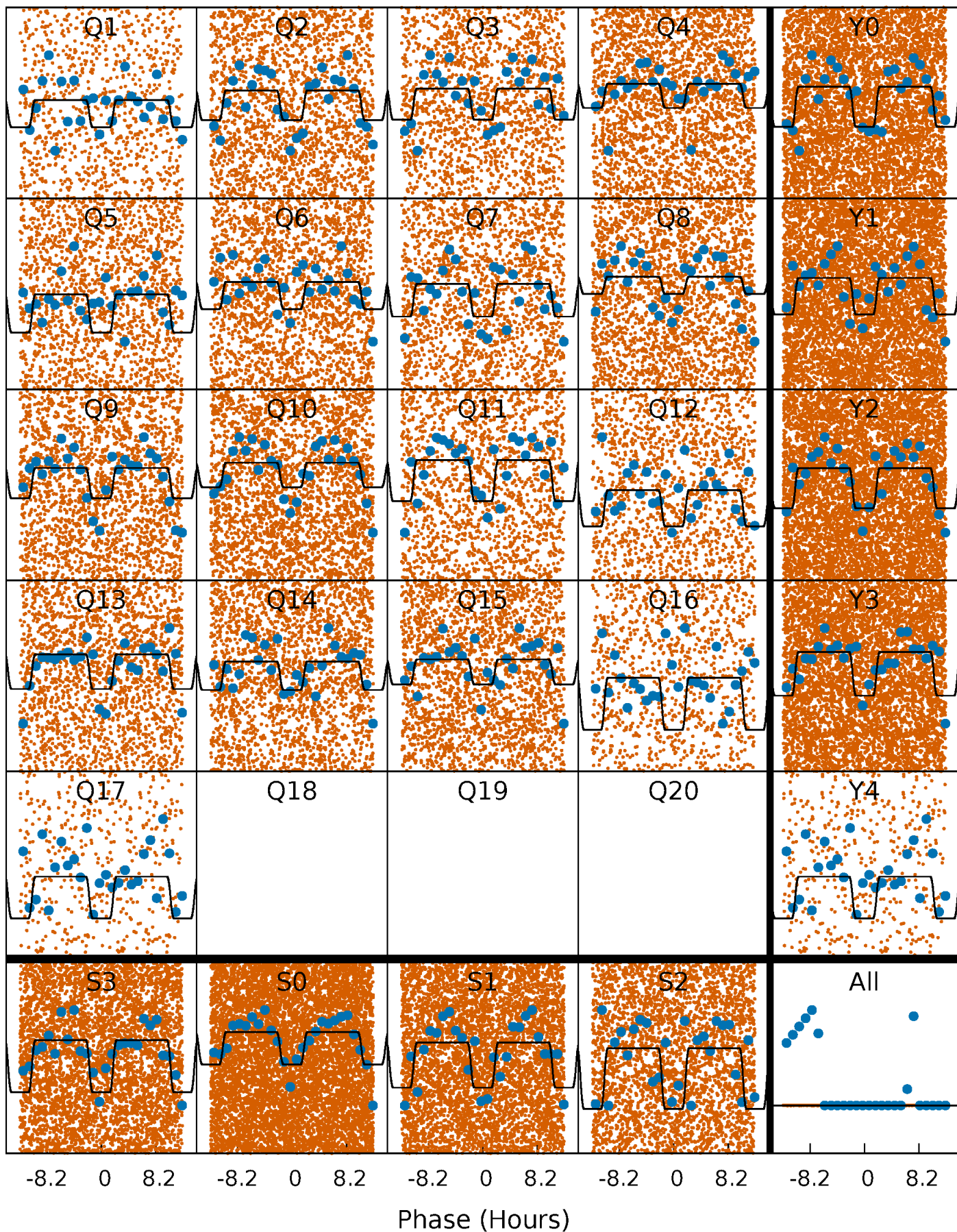
DV Quarter-Phased Transit Curves

TCE 006963153-01 P= 0.509699 Days $T_0=131.707559$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

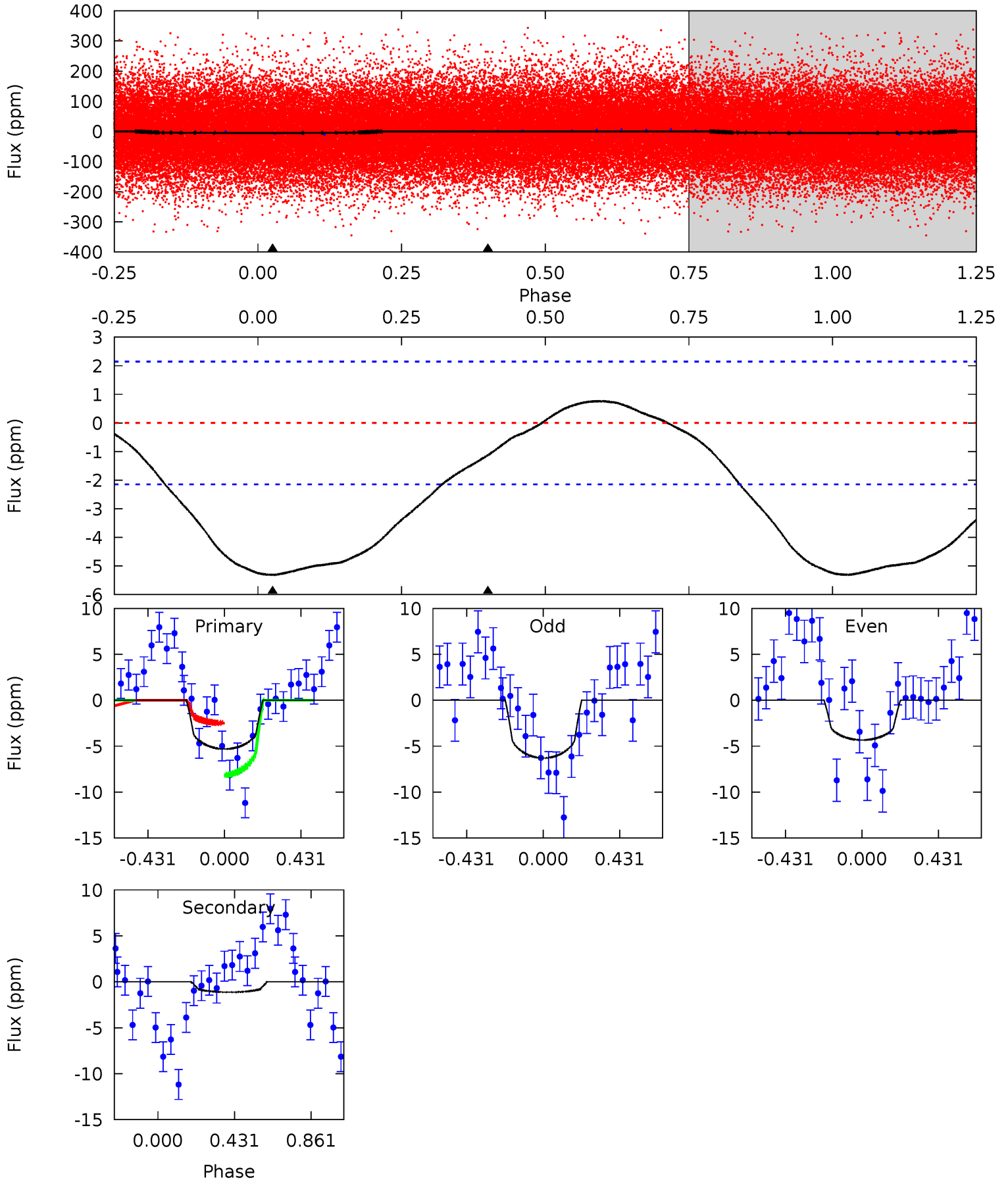
TCE 006963153-01 P= 0.509731 Days $T_0=131.697264$ (BKJD)



DV Model-Shift Uniqueness Test

006963153-01, P = 0.509699 Days, E = 131.197860 Days

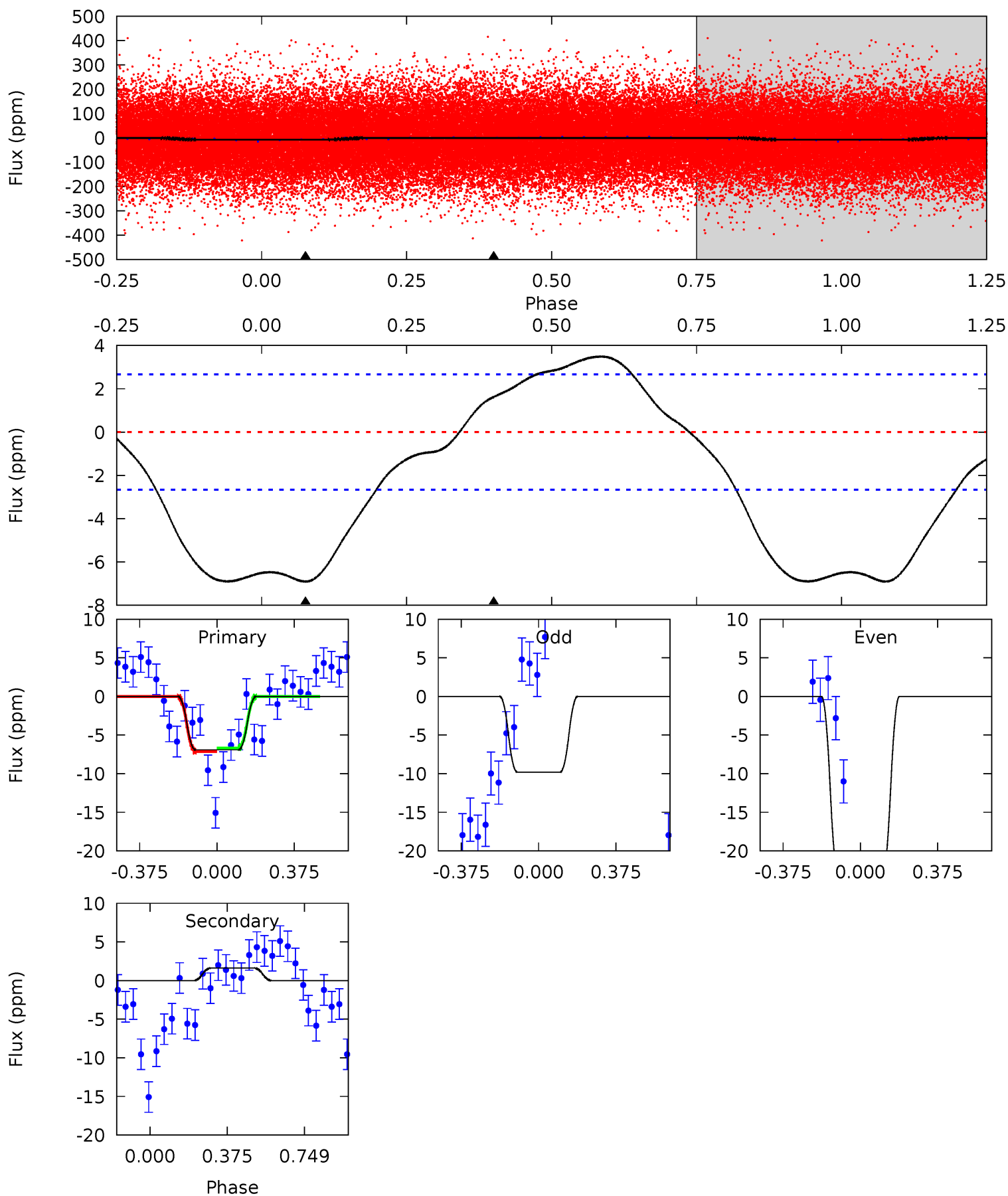
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.5	2.24	0	0	4.25	0.79	0.54	10.5	10.5	2.24	2.24	1.94	0.97	0.13	5.64



Alt Model-Shift Uniqueness Test

006963153-01, P = 0.509731 Days, E = 131.187533 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.1	-2.61	0	0	4.28	0.89	1.12	11.1	11.1	-2.61	-2.61	11.0	1.13	0.34	0.38



Stellar Parameters For KIC 006963153

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7800^{+216}_{-324}	$3.994^{+0.181}_{-0.148}$	$0.070^{+0.200}_{-0.350}$	$2.282^{+0.493}_{-0.602}$	$1.873^{+0.138}_{-0.344}$	$0.222^{+0.242}_{-0.086}$
	+3%/-4%	+5%/-4%	+286%/-500%	+22%/-26%	+7%/-18%	+109%/-39%
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 006963153-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1 ± 1	$0.62^{+0.52}_{-0.39}$	5817^{+404}_{-408}	2877^{+5041}_{-7385}	$0.316^{+2.178}_{-0.226}$
Alt.	2 ± 1	$0.77^{+0.57}_{-0.45}$	5826^{+402}_{-414}	-5687^{+596}_{-2190}	$-0.330^{+0.229}_{-1.646}$

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 $A_{obs} \gg 1.0$

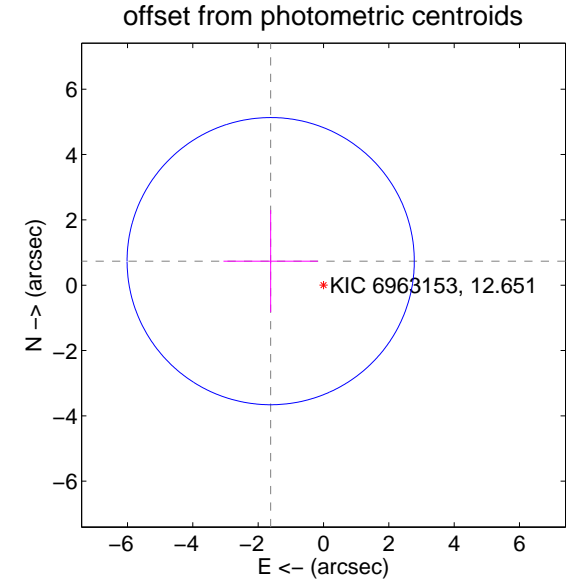
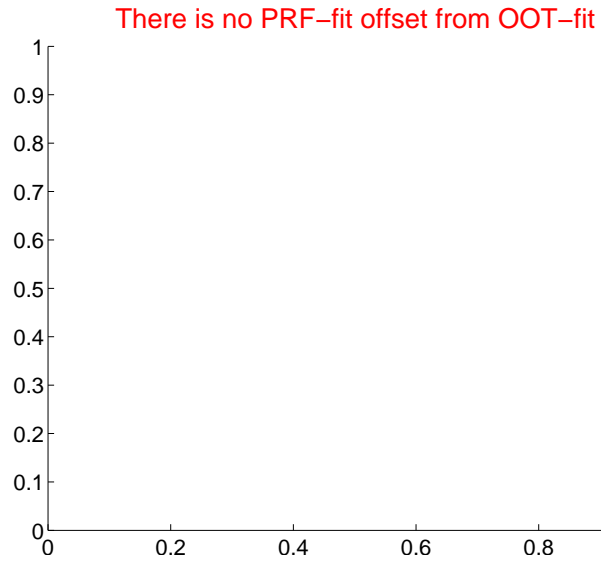
DV Centroid Data

Supplemental centroid analysis for 006963153-01. Kepler magnitude: 12.65. Transit SNR 7.43

There are 0 quarters with good PRF difference image offsets

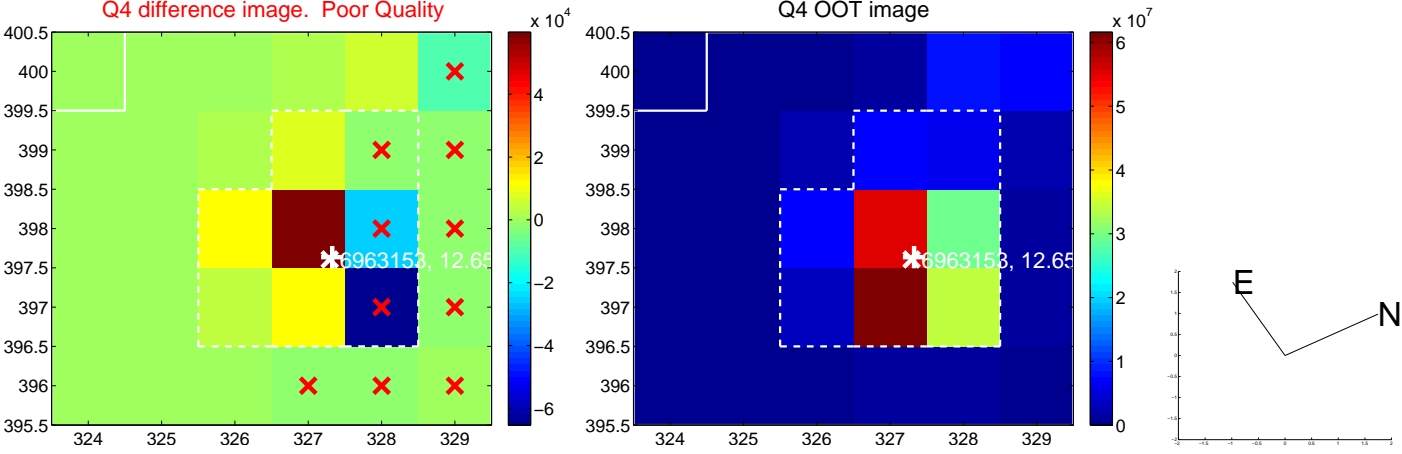
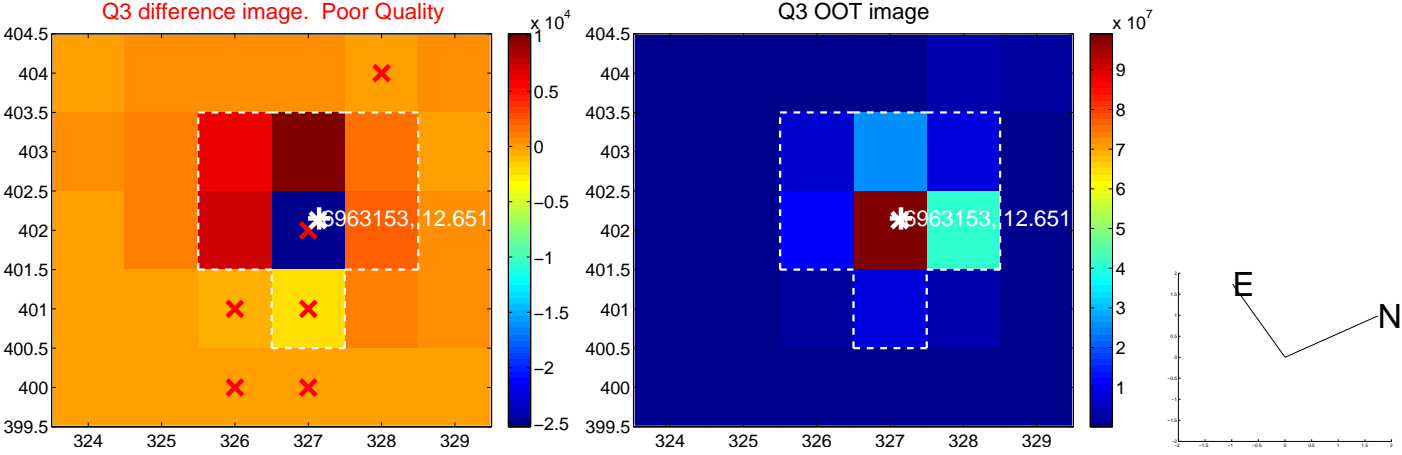
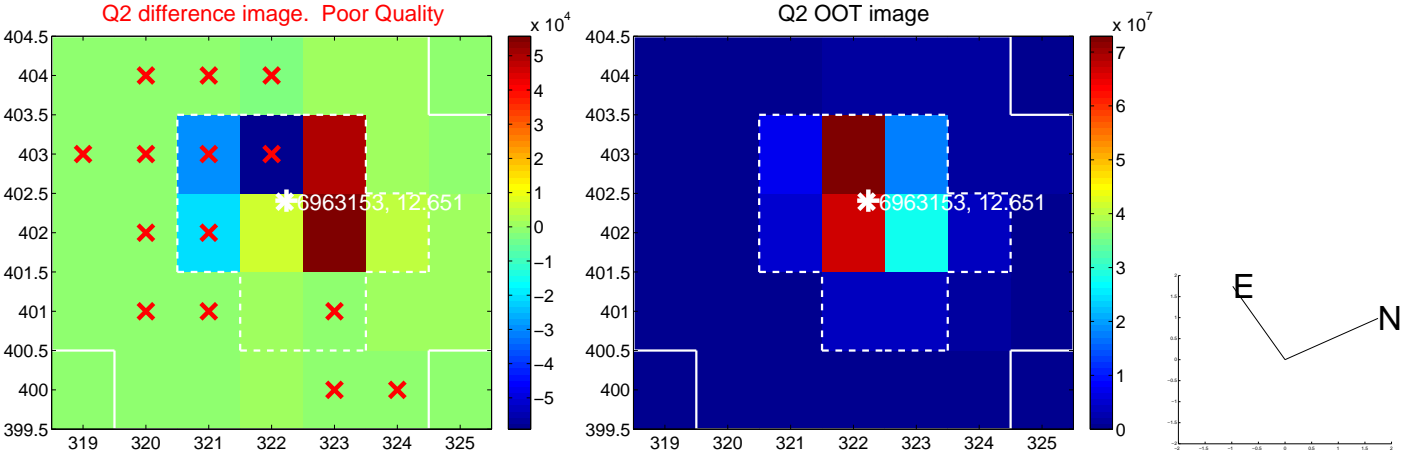
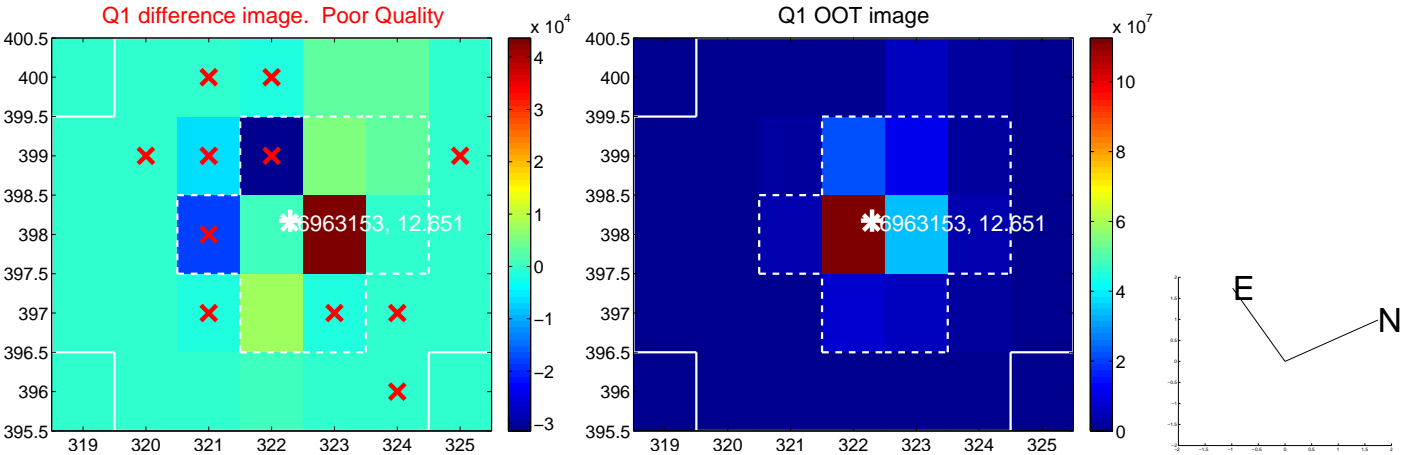
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	1.78 ± 1.47	1.21	1.62 ± 1.44	0.74 ± 1.56

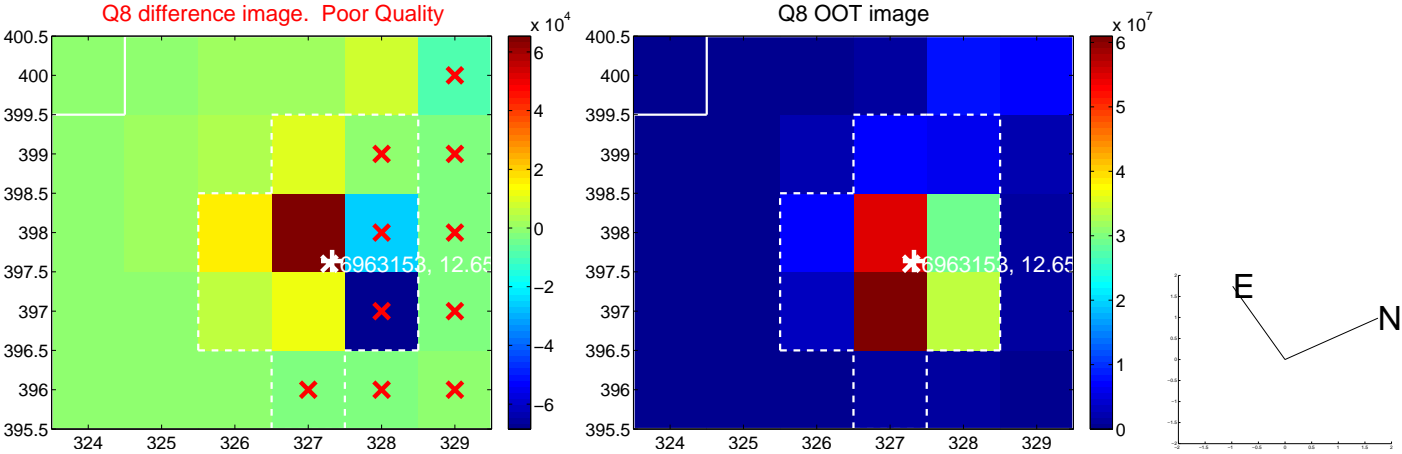
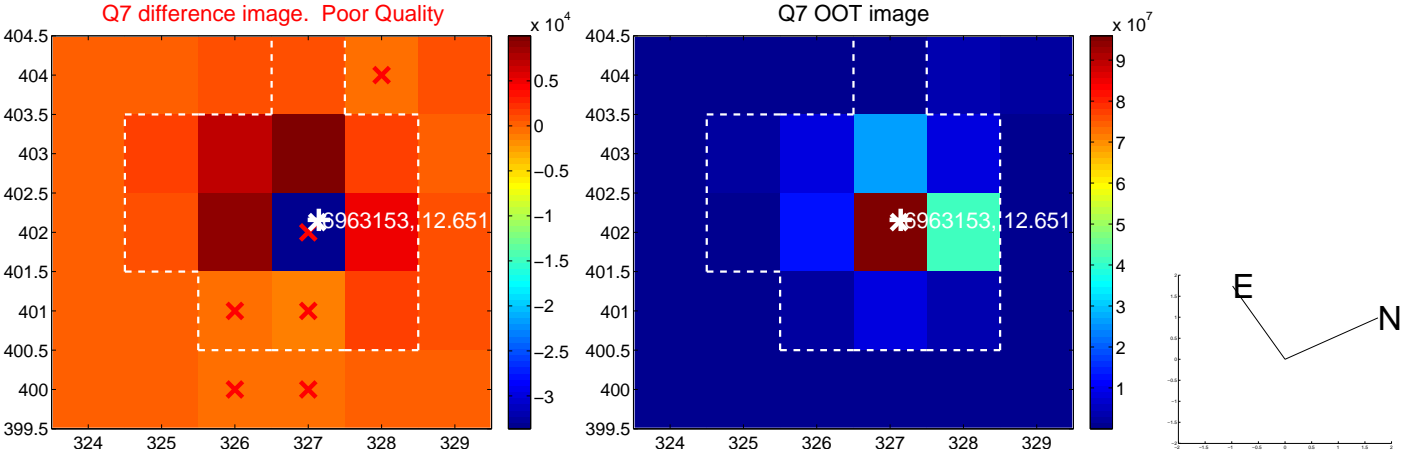
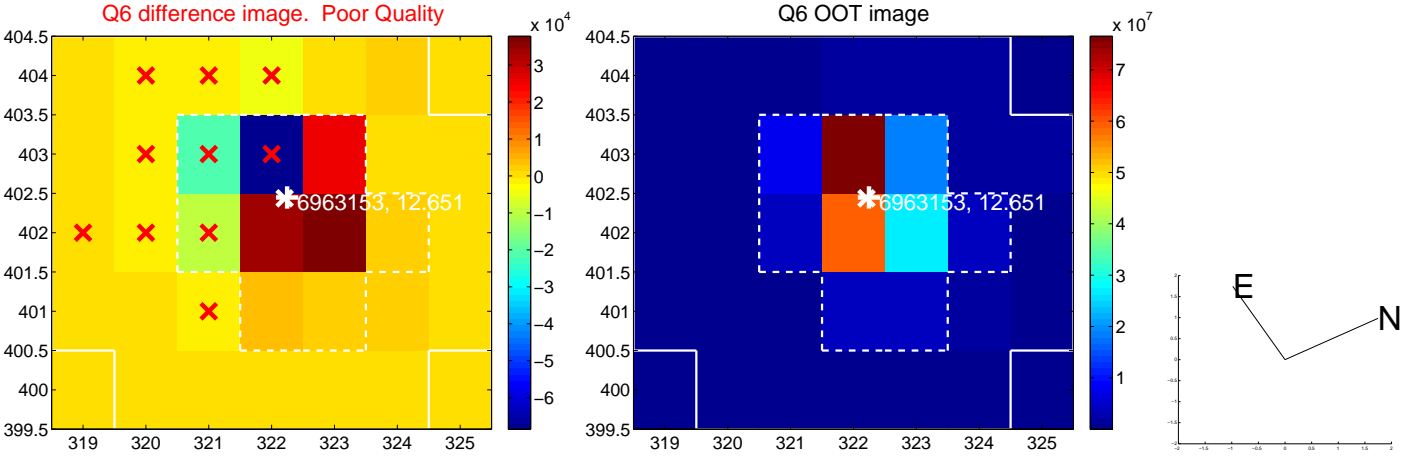
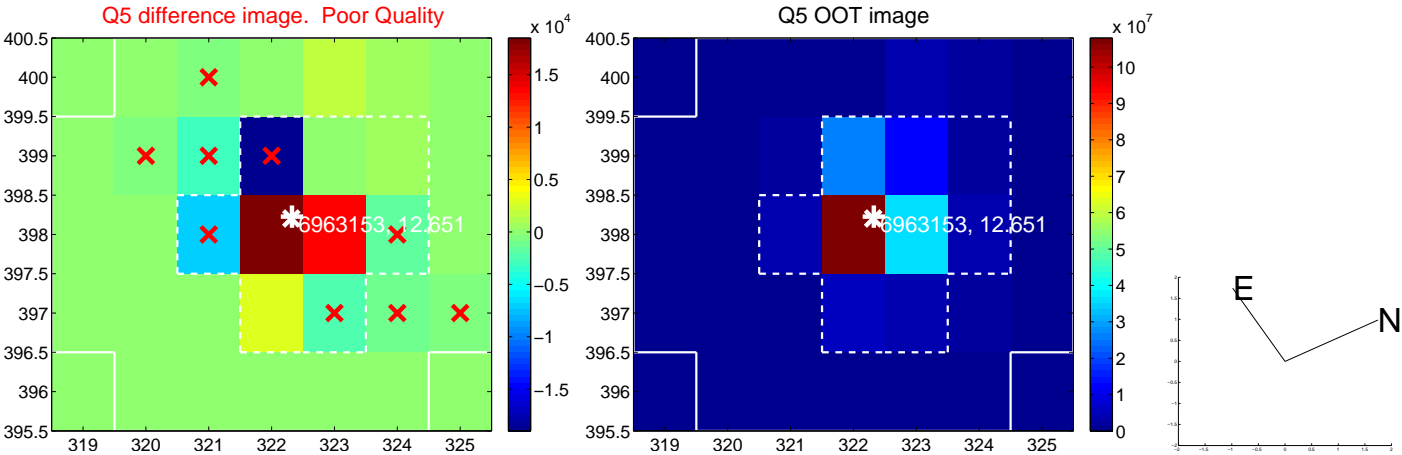


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

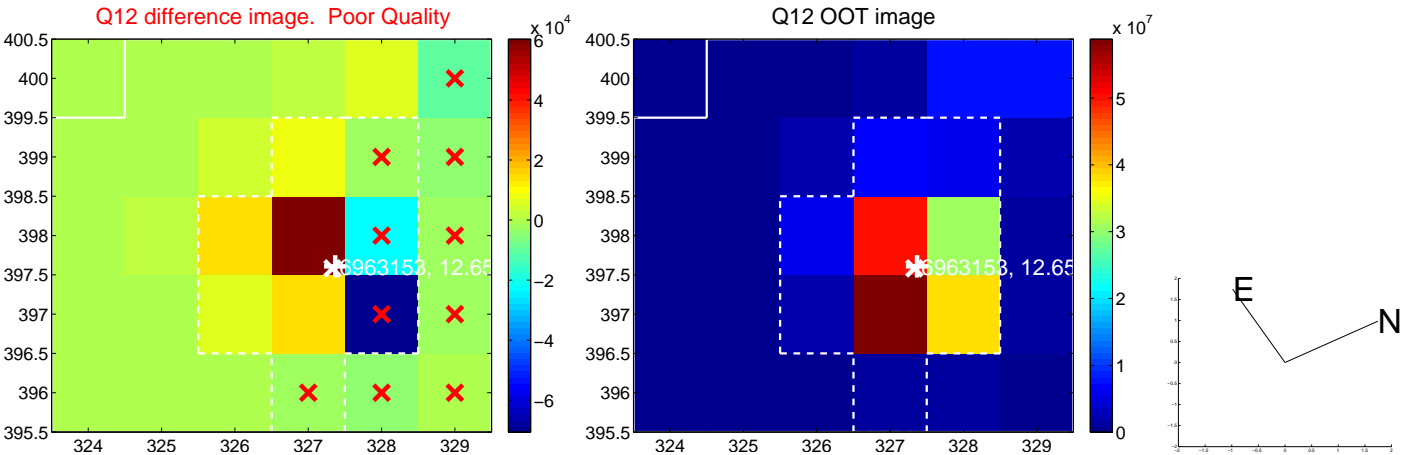
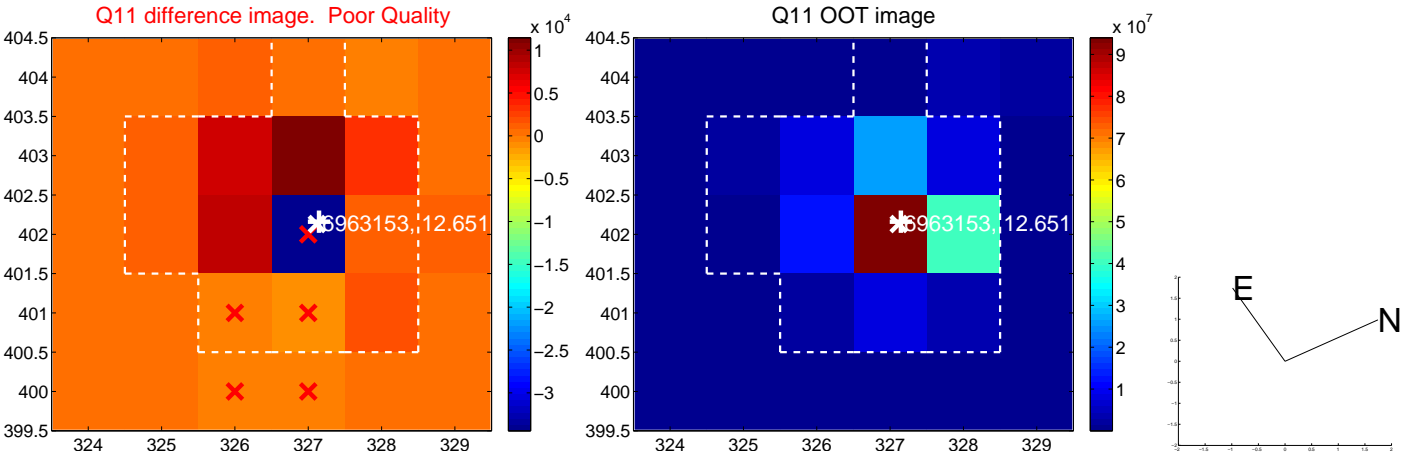
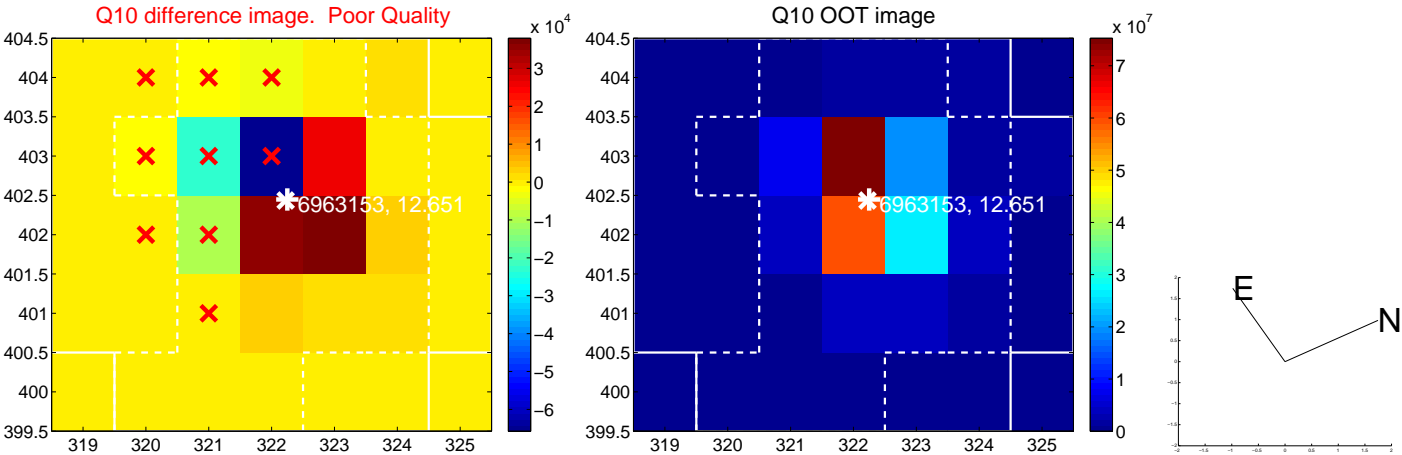
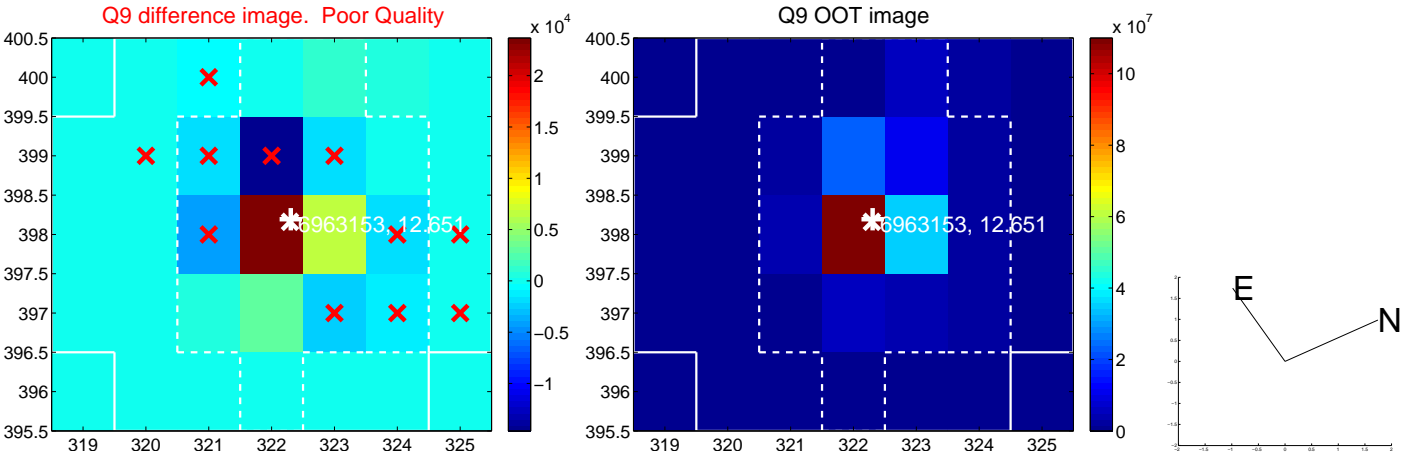
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



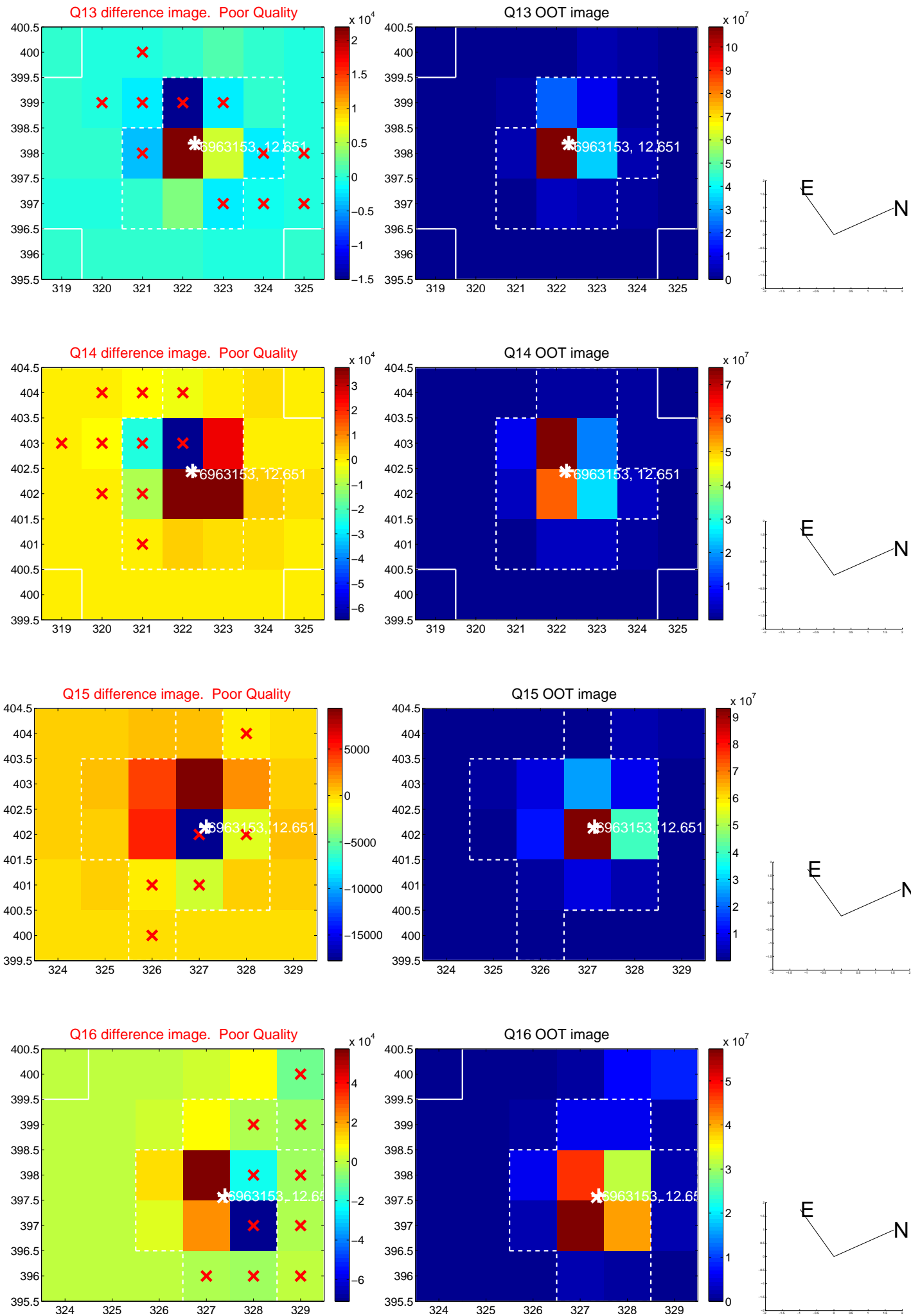
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



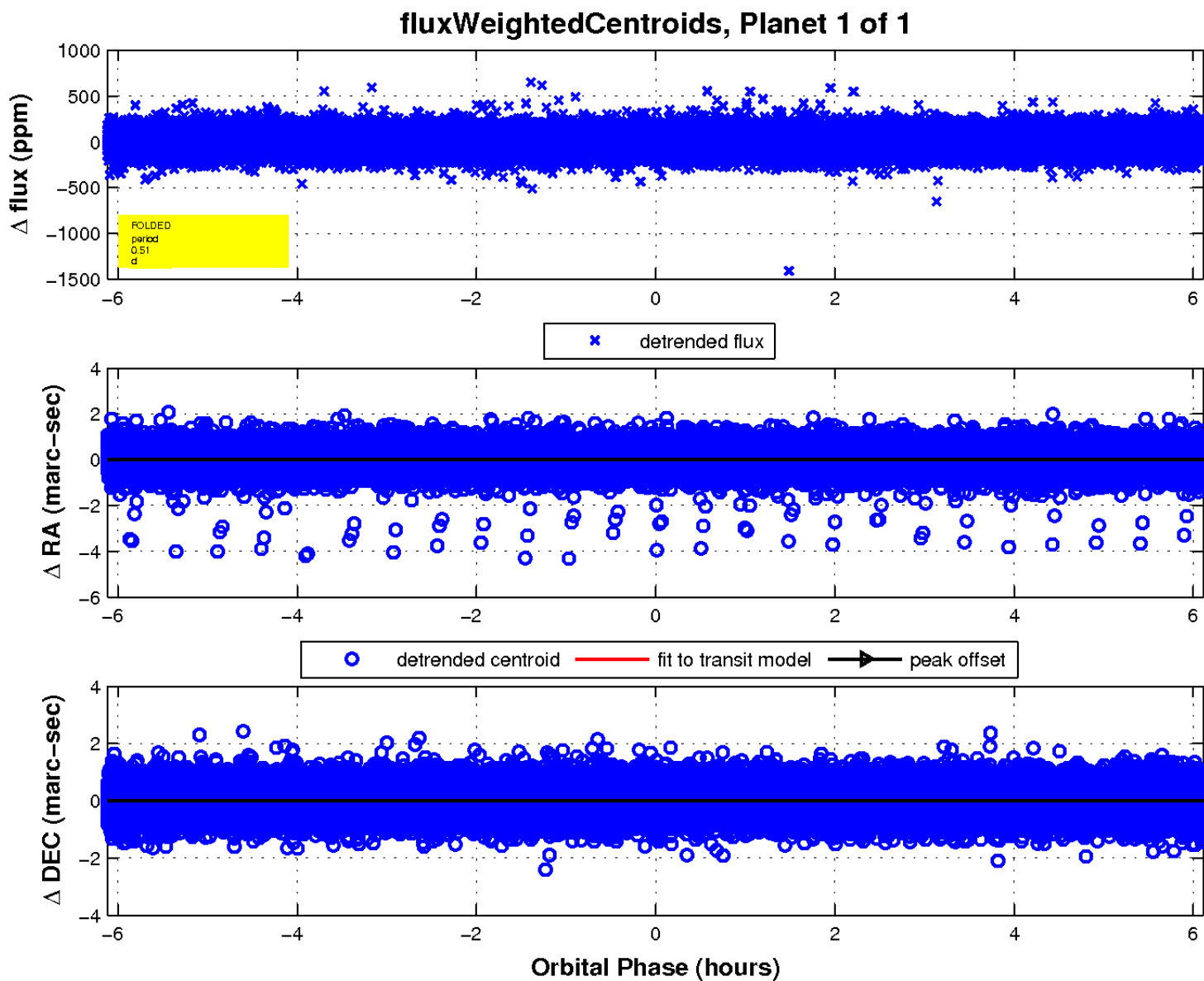
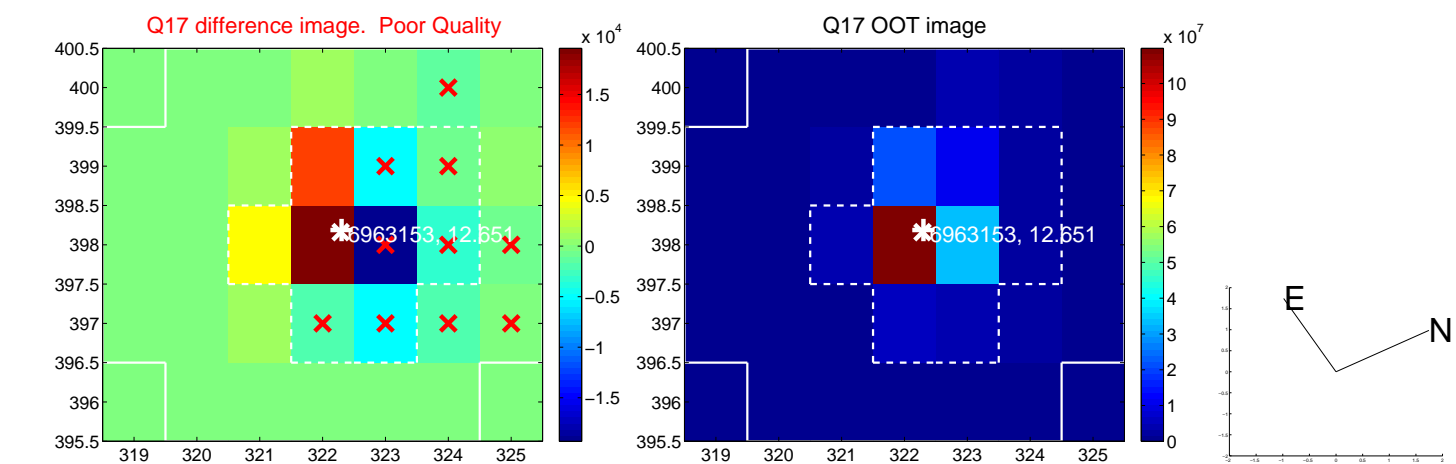
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

