

KIC 007989187

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})
007989187-01	OBS	No	2.266061	132.267036	318.5	7.500	12.0	-1.0	1.01	6380	1.81	1274.57

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007989187-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_NOFITS

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

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

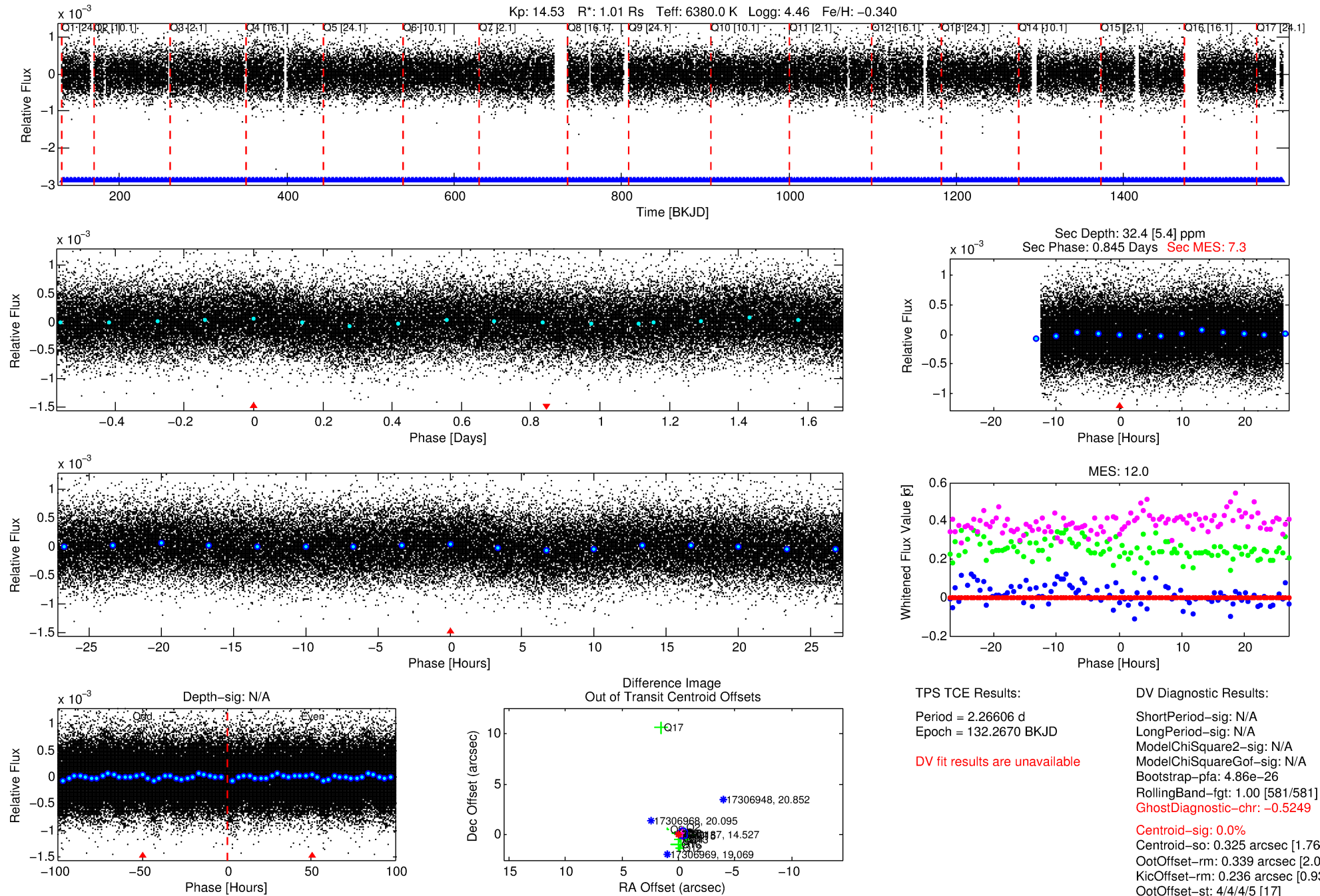
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007989187-01

No Significant Match Found

DV One-Page Summary

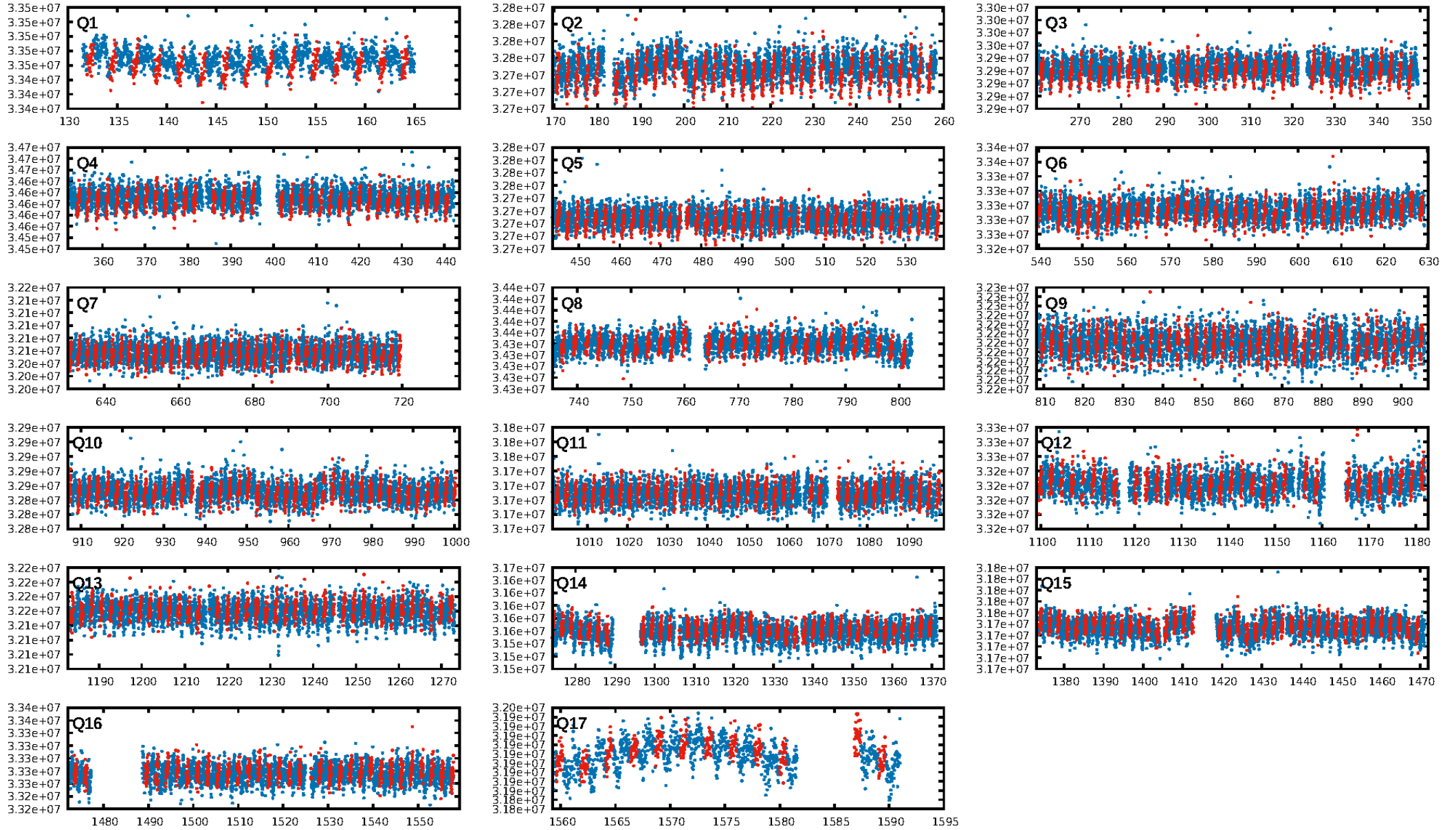
KIC: 7989187 Candidate: 1 of 1 Period: 2.266 d



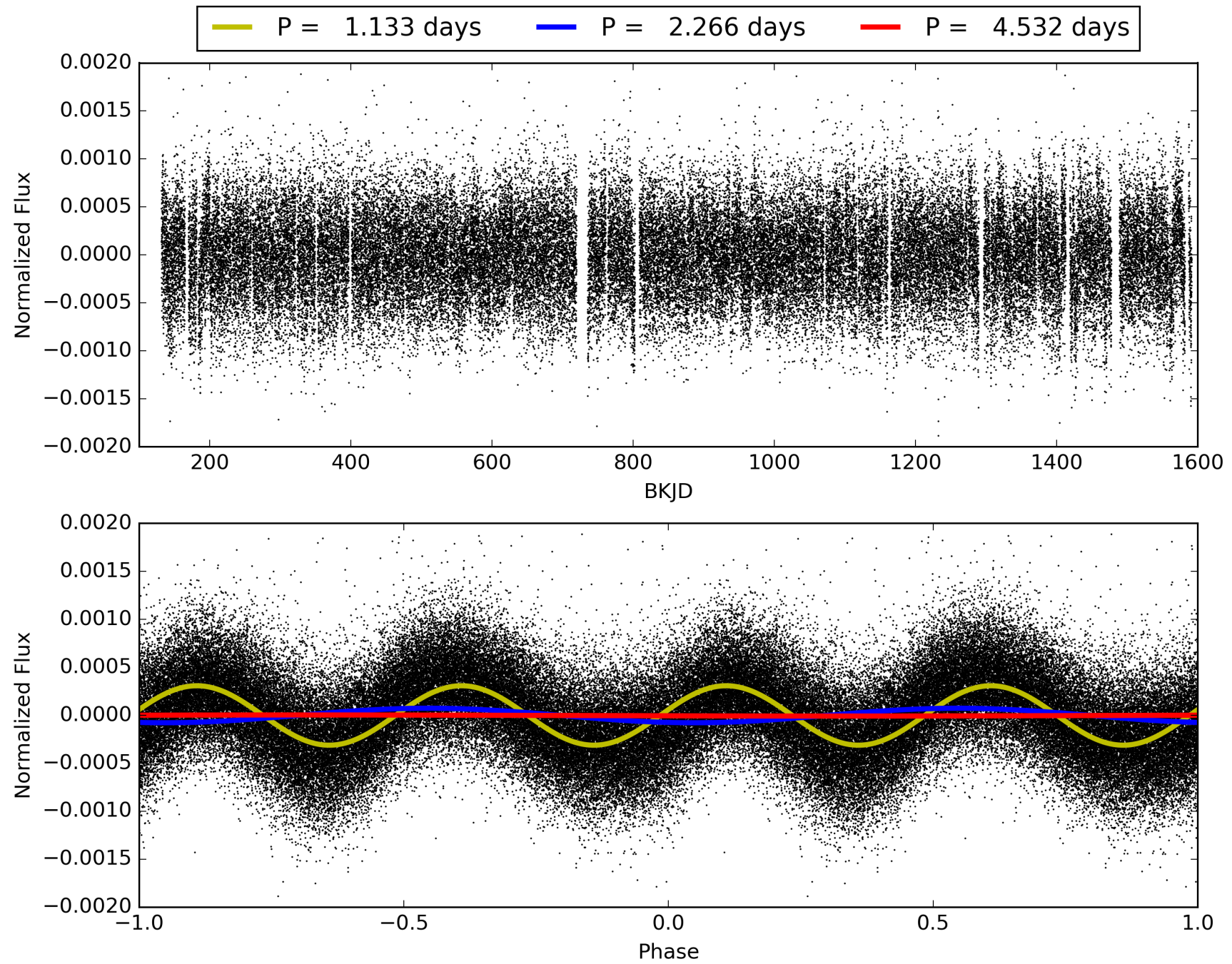
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 18:51:47 Z

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

TCE 007989187-01, PDC Light Curves

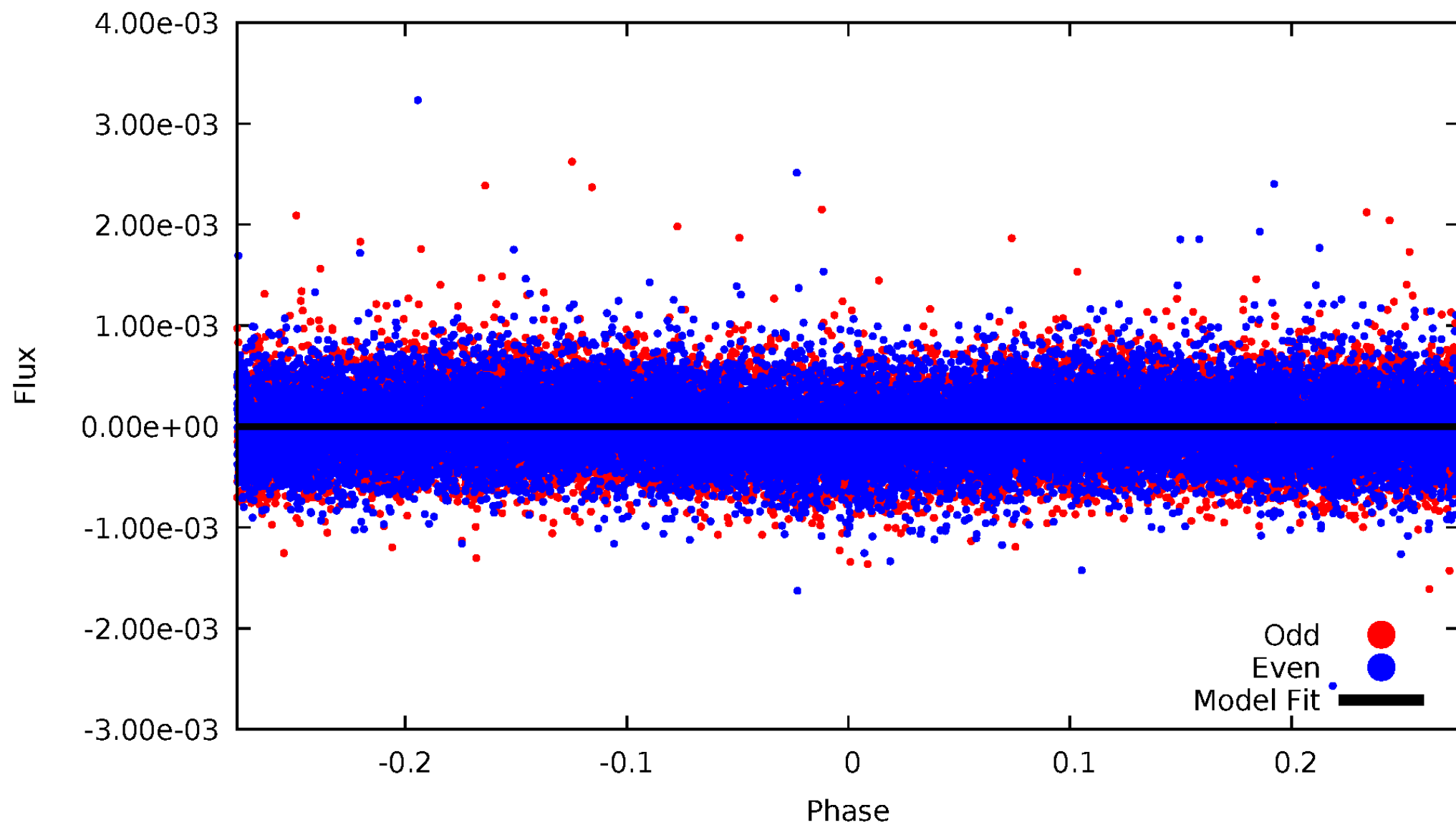


TCE 007989187-01



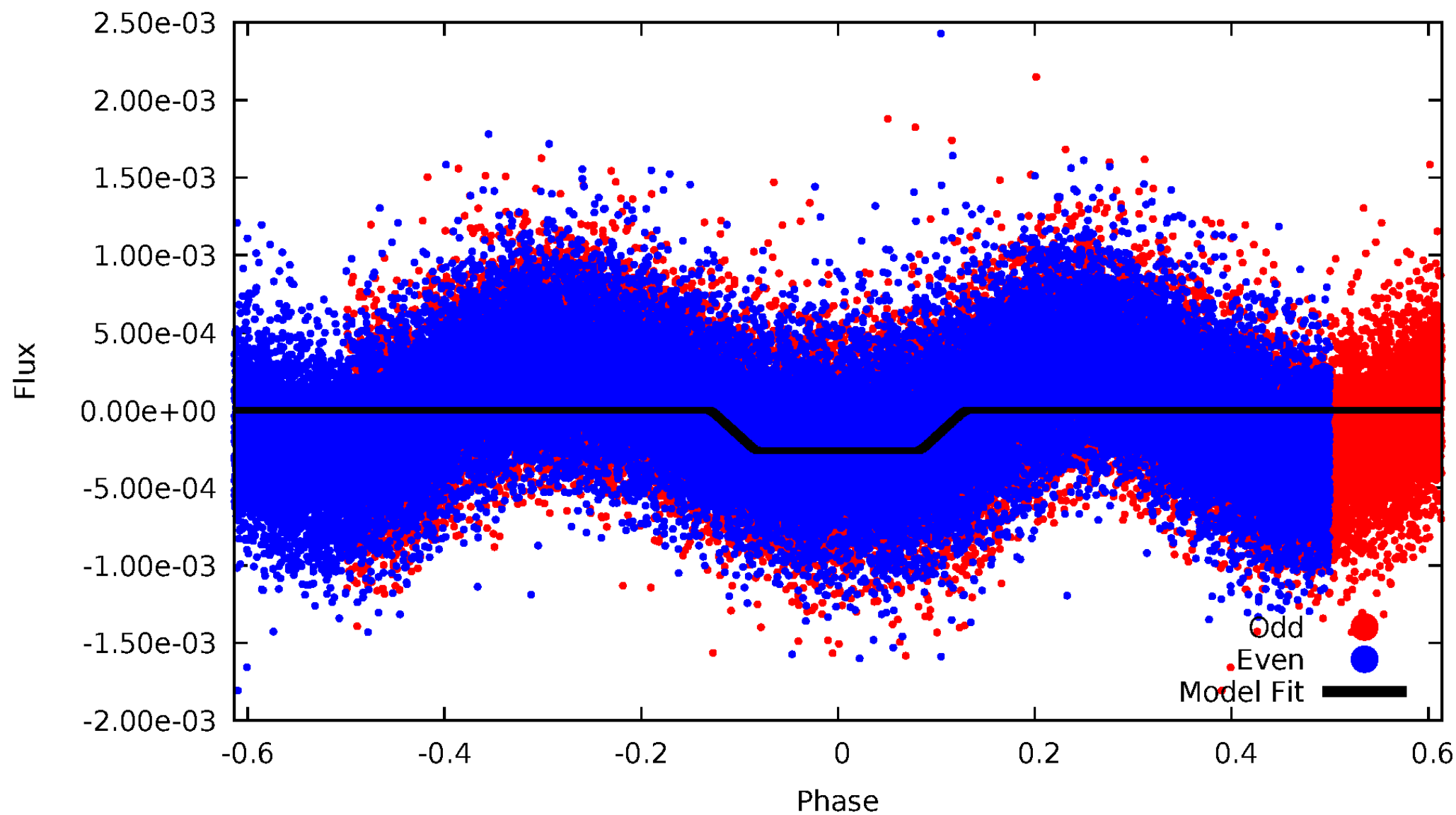
DV Odd/Even

TCE 007989187-01

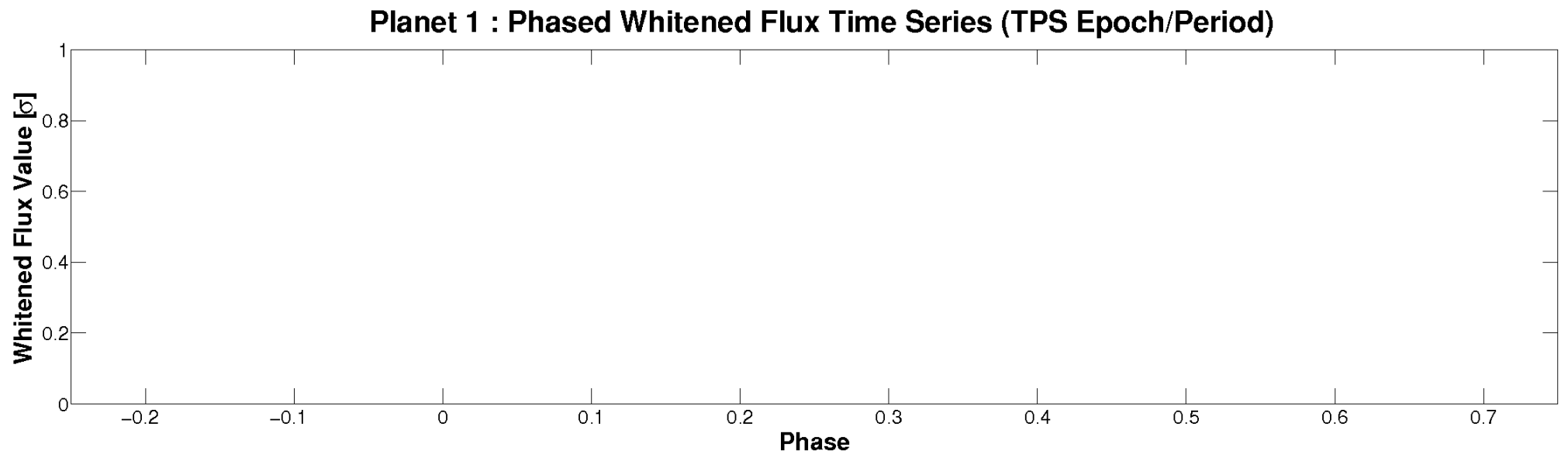
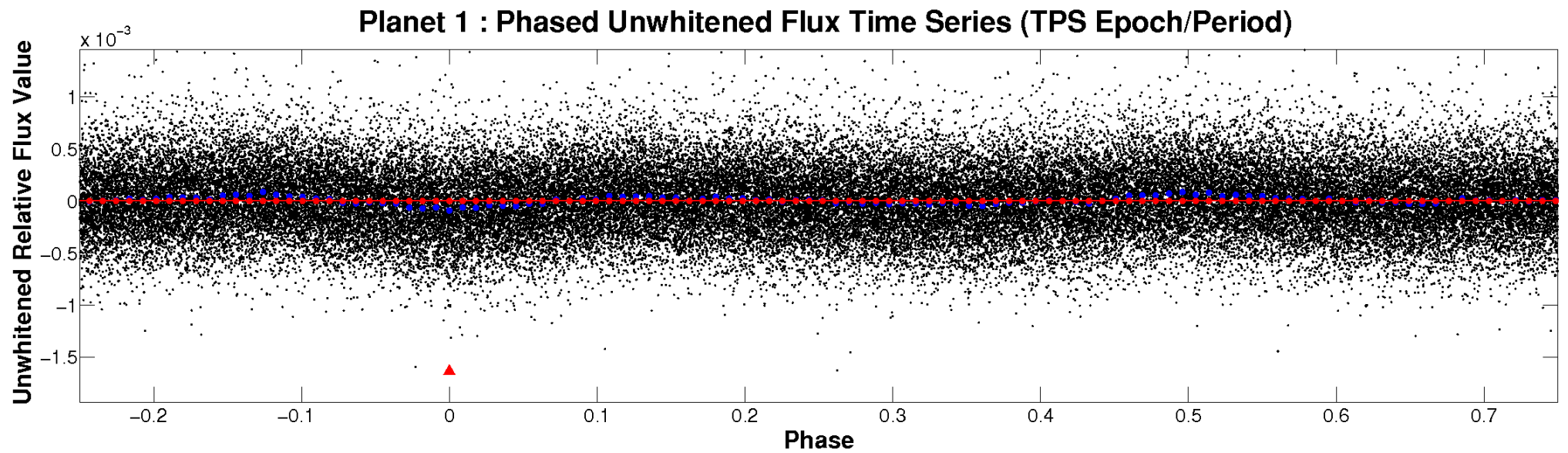


ALT Odd/Even

TCE 007989187-01

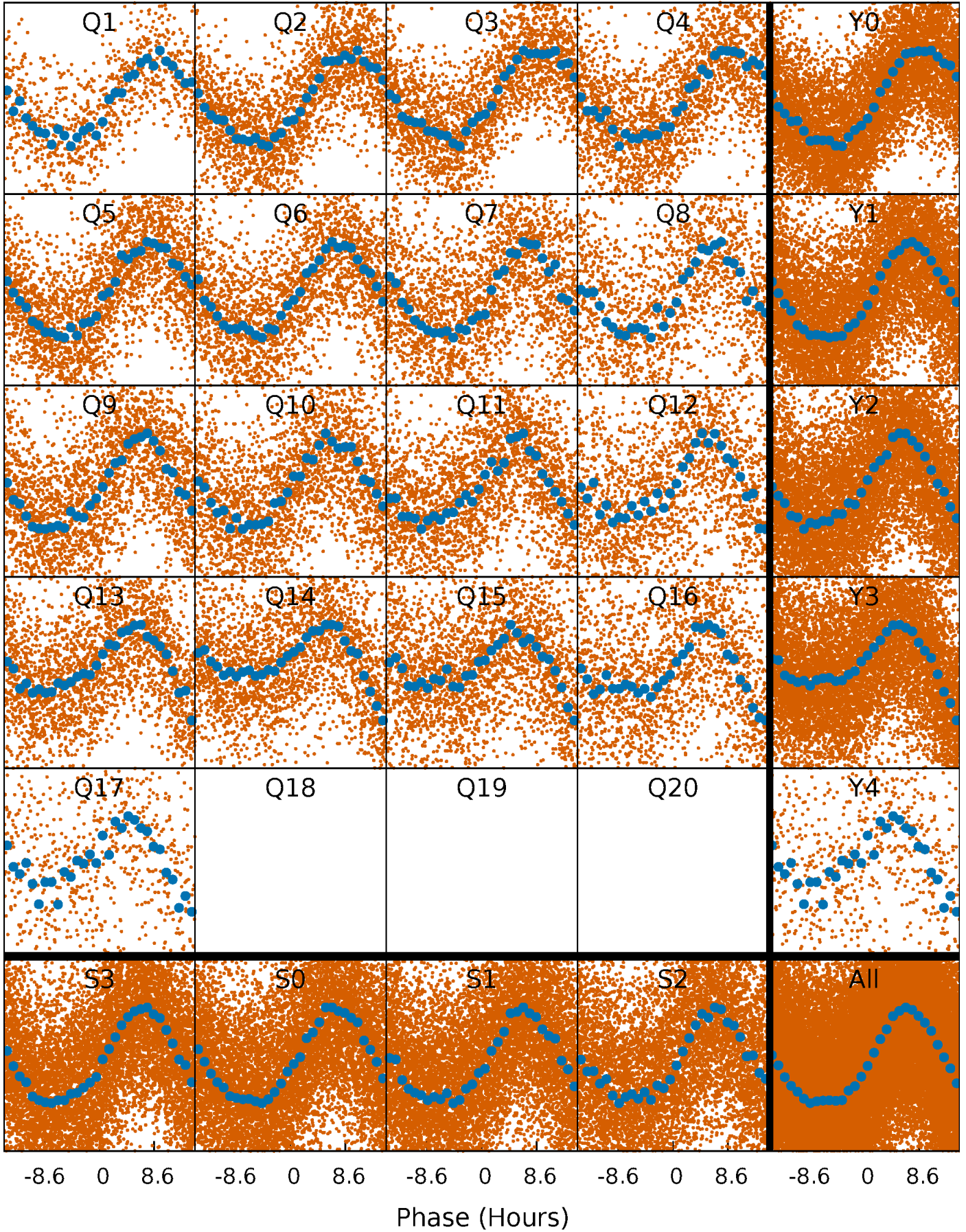


Non-Whitened Vs. Whitened Light Curve



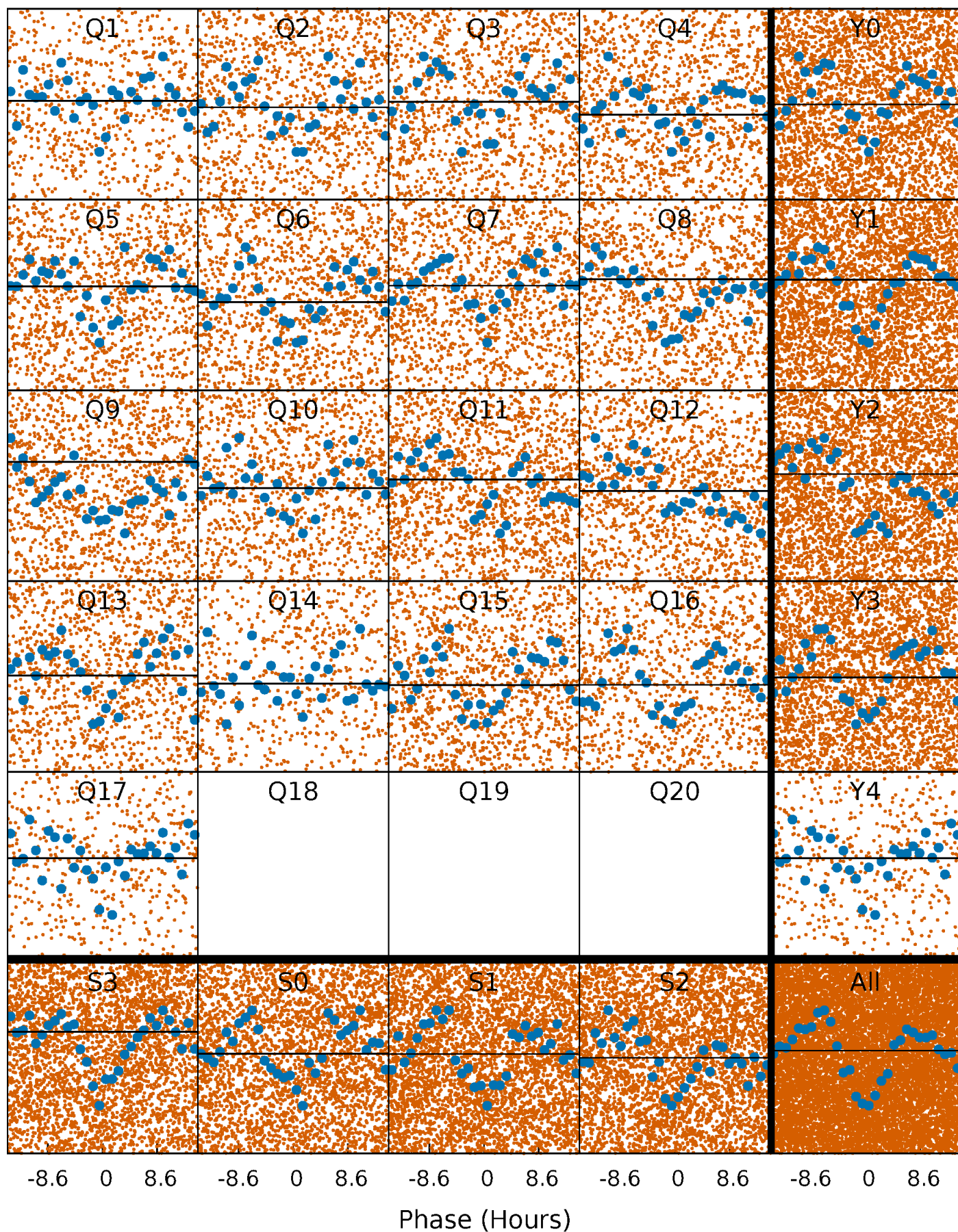
PDC Quarter-Phased Transit Curves

TCE 007989187-01 P= 2.266061 Days $T_0=132.267035$ (BKJD)



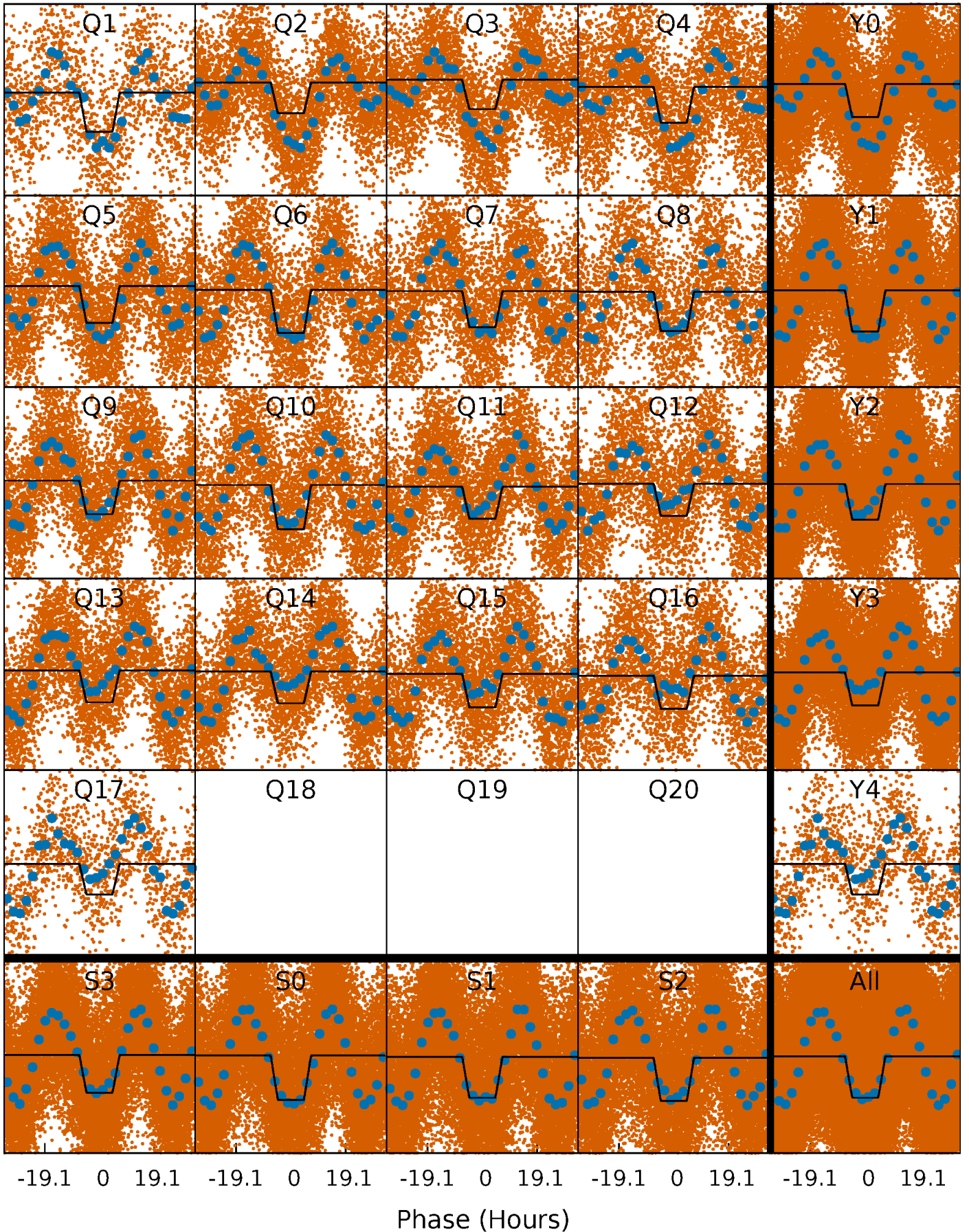
DV Quarter-Phased Transit Curves

TCE 007989187-01 P= 2.266061 Days $T_0=132.267035$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

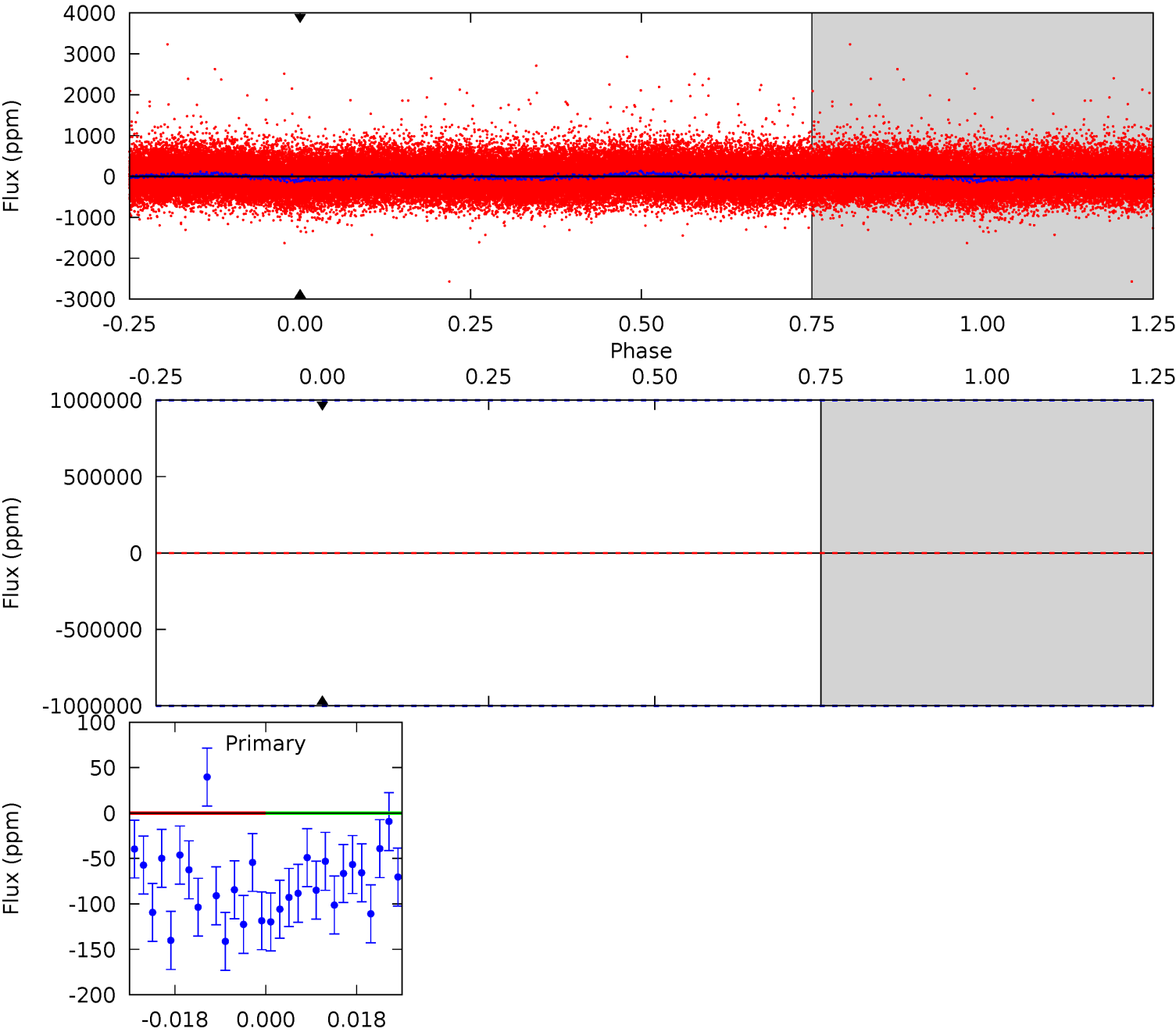
TCE 007989187-01 P= 2.266061 Days $T_0=131.977776$ (BKJD)



DV Model-Shift Uniqueness Test

007989187-01, P = 2.266061 Days, E = 130.000974 Days

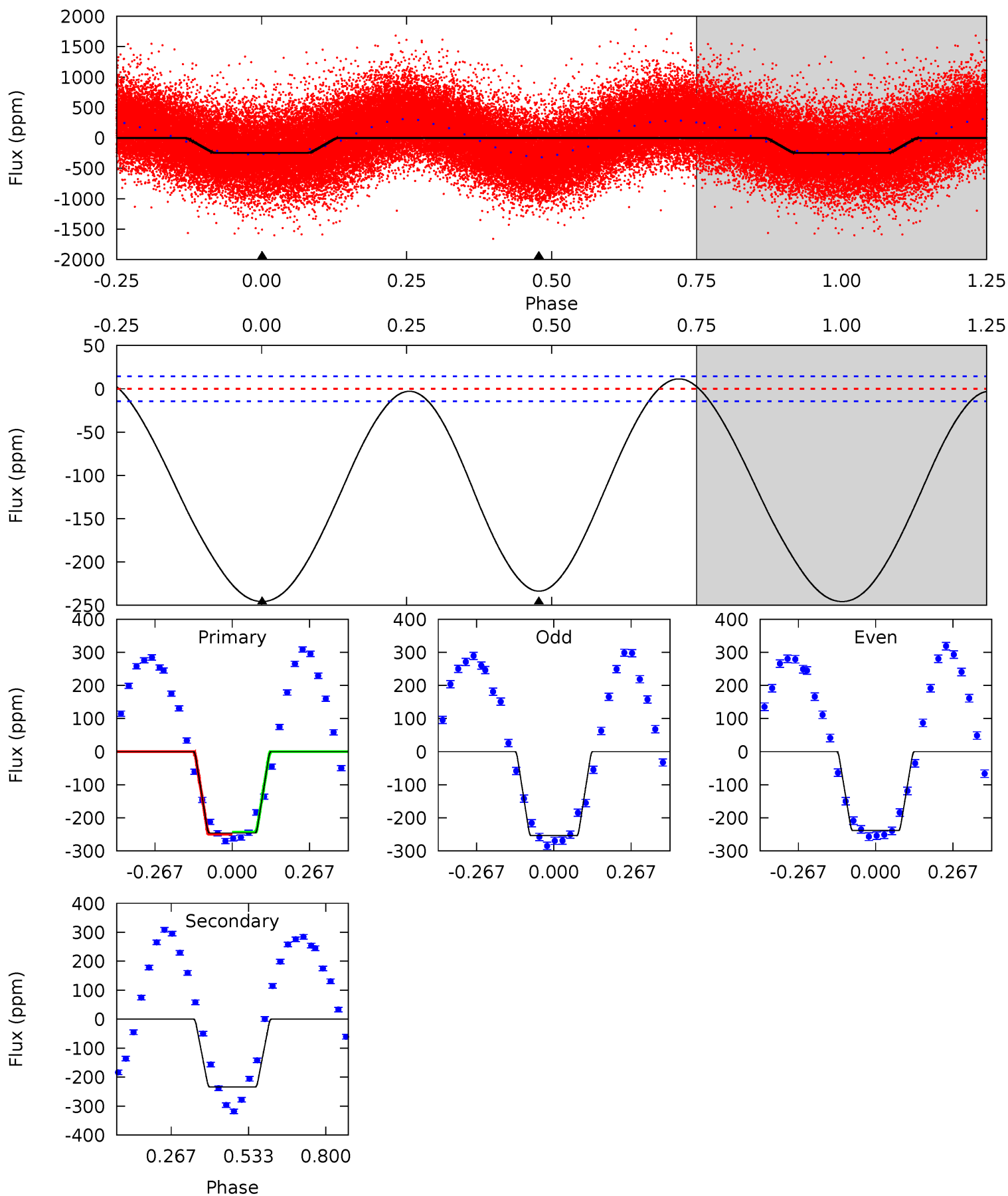
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

007989187-01, P = 2.266061 Days, E = 129.711715 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
74.7	71.0	0	0	4.35	1.11	2.66	74.7	74.7	71.0	71.0	2.28	1.13	0.04	1.07



Stellar Parameters For KIC 007989187

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6380^{+171}_{-209}	$4.456^{+0.054}_{-0.202}$	$-0.340^{+0.300}_{-0.300}$	$1.010^{+0.317}_{-0.106}$	$1.063^{+0.142}_{-0.142}$	$1.452^{+0.408}_{-0.762}$
	+3%/-3%	+1%/-5%	+88%/-88%	+31%/-10%	+13%/-13%	+28%/-52%
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 007989187-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	0 ± 1000000	$8.60^{+9.06}_{-6.19}$	2170^{+155}_{-103}	-5479^{+34681}_{-20940}	$-21.942^{+1737.921}_{-1592.944}$
Alt.	-234 ± 3	$8.10^{+9.06}_{-5.81}$	2167^{+161}_{-102}	3388^{+2246}_{-915}	$2.269^{+26.813}_{-1.756}$

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

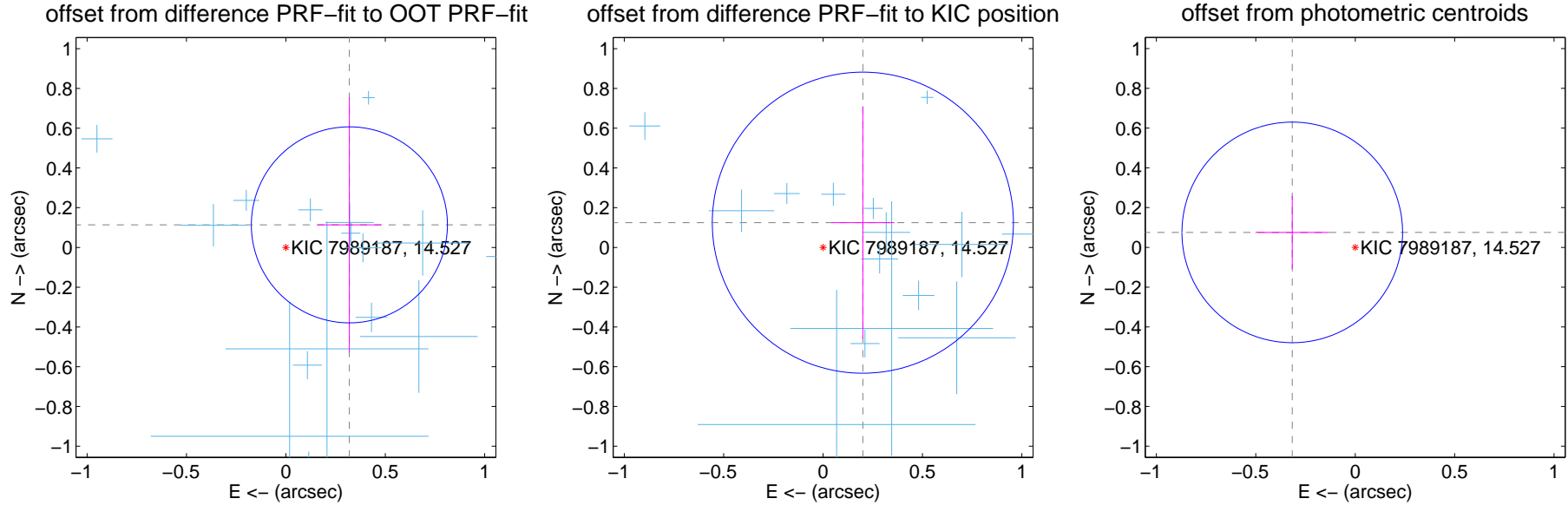
DV Centroid Data

Supplemental centroid analysis for 007989187-01. Kepler magnitude: 14.53. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

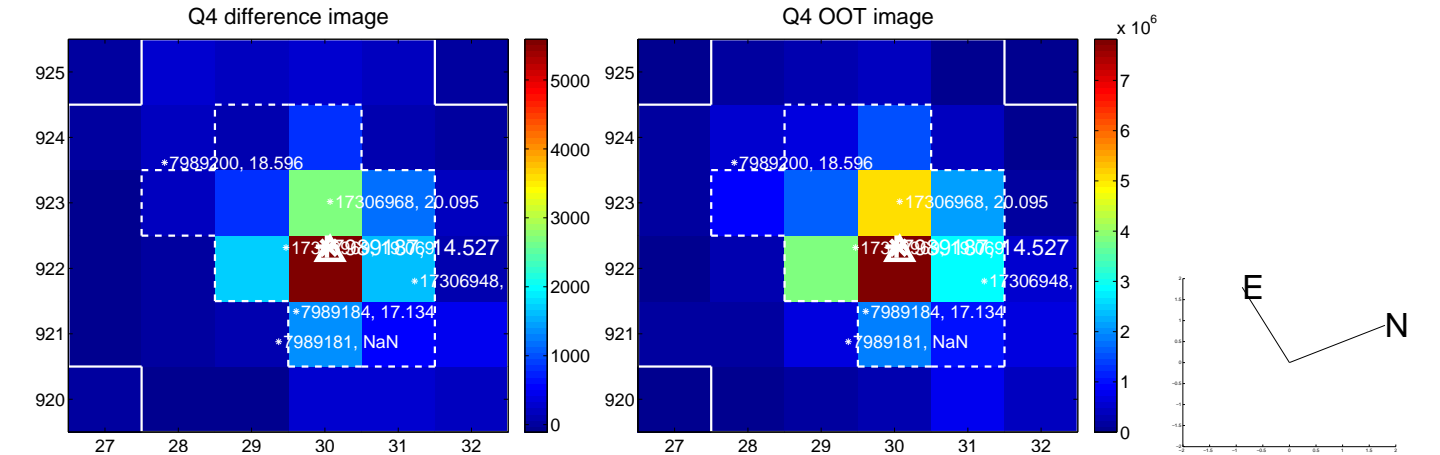
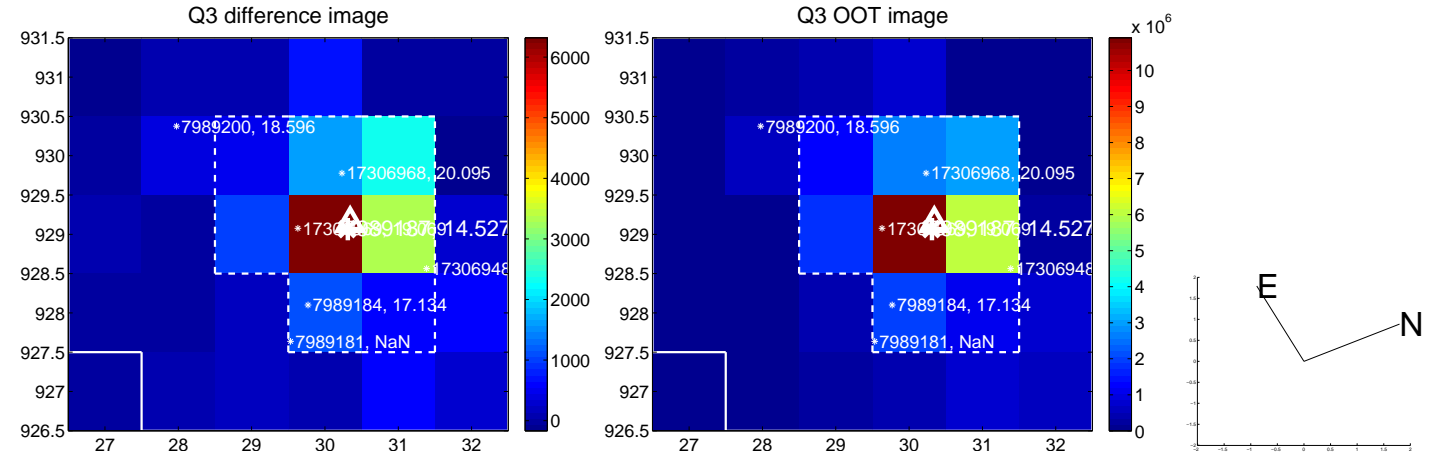
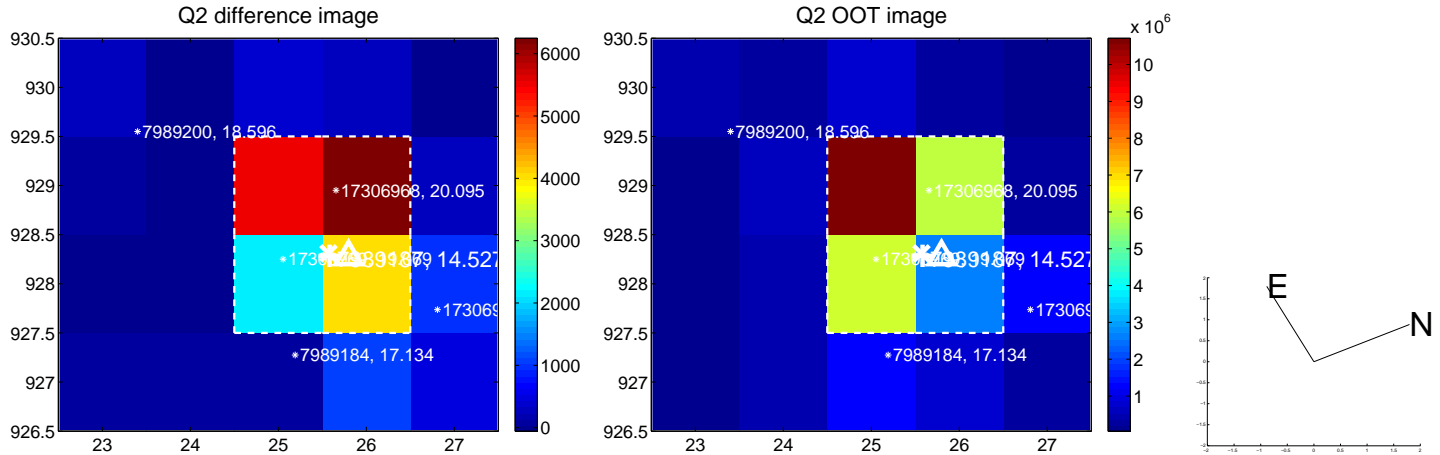
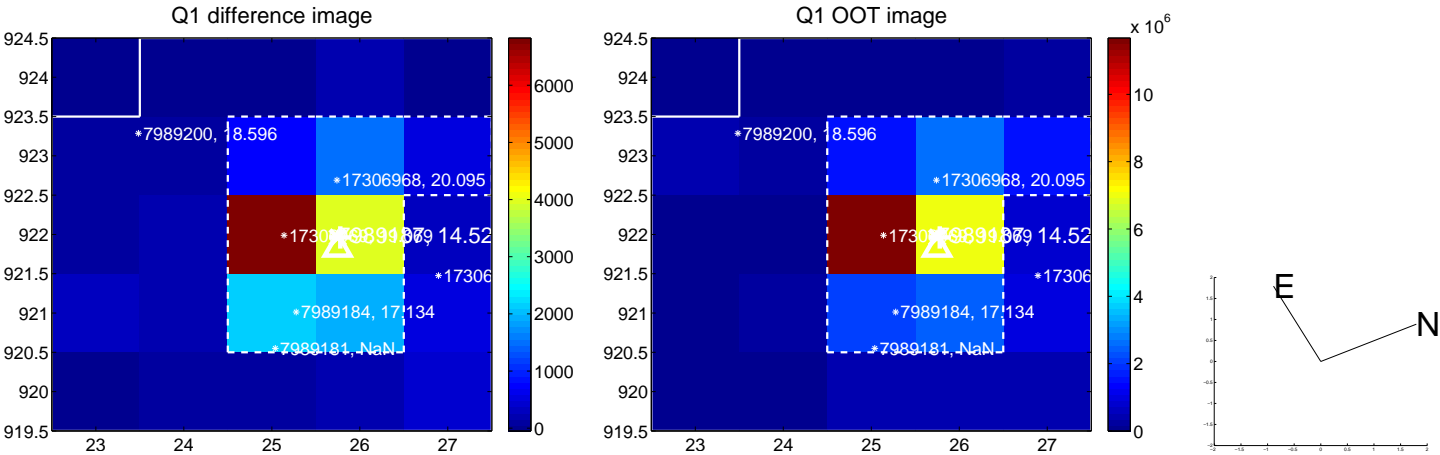
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.339 ± 0.164	2.06	-0.319 ± 0.162	0.114 ± 0.642
PRF-fit source offset from KIC position	0.236 ± 0.253	0.93	-0.200 ± 0.159	0.125 ± 0.586
photometric centroid source offset	0.33 ± 0.18	1.76	0.32 ± 0.19	0.08 ± 0.18

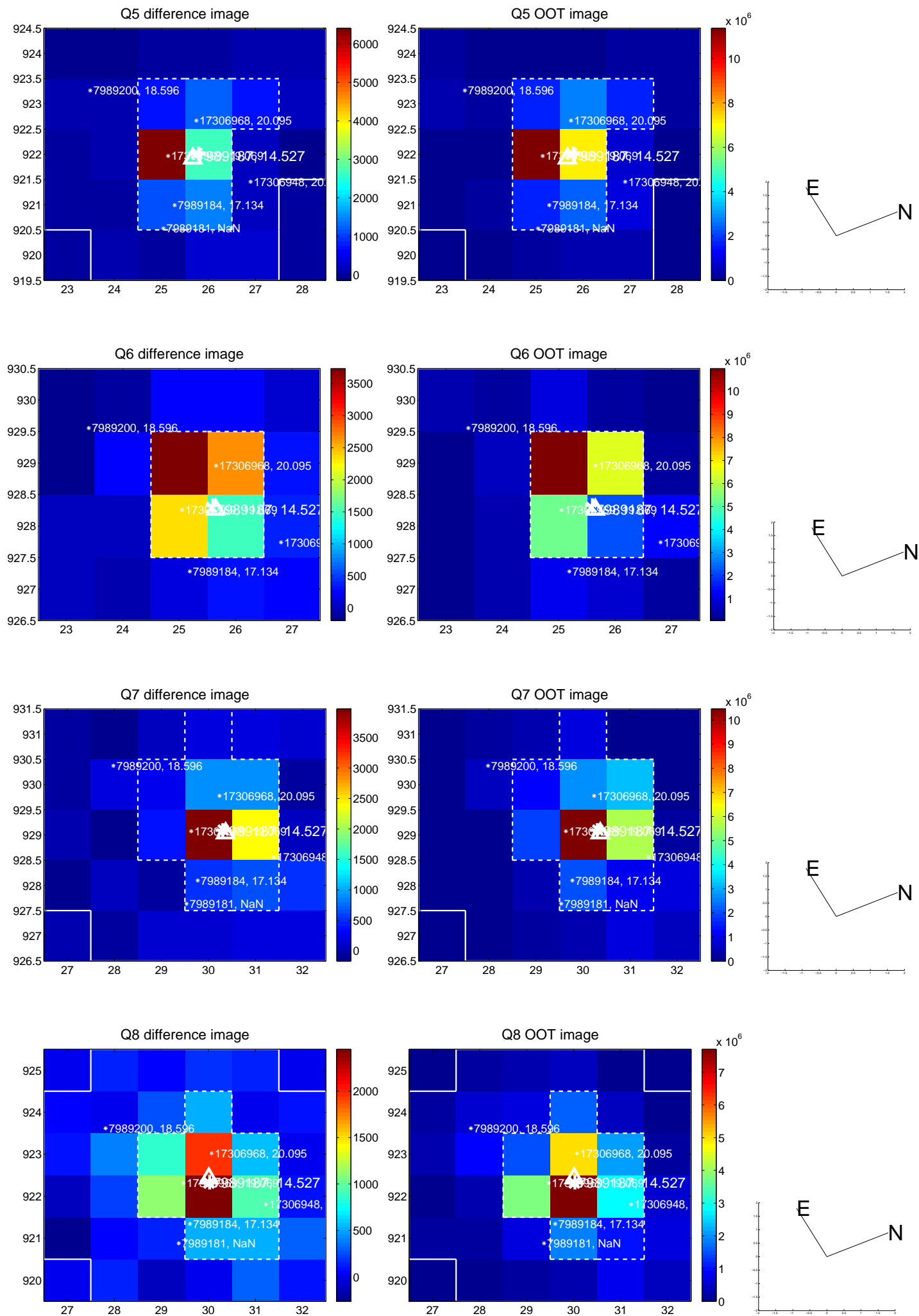


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

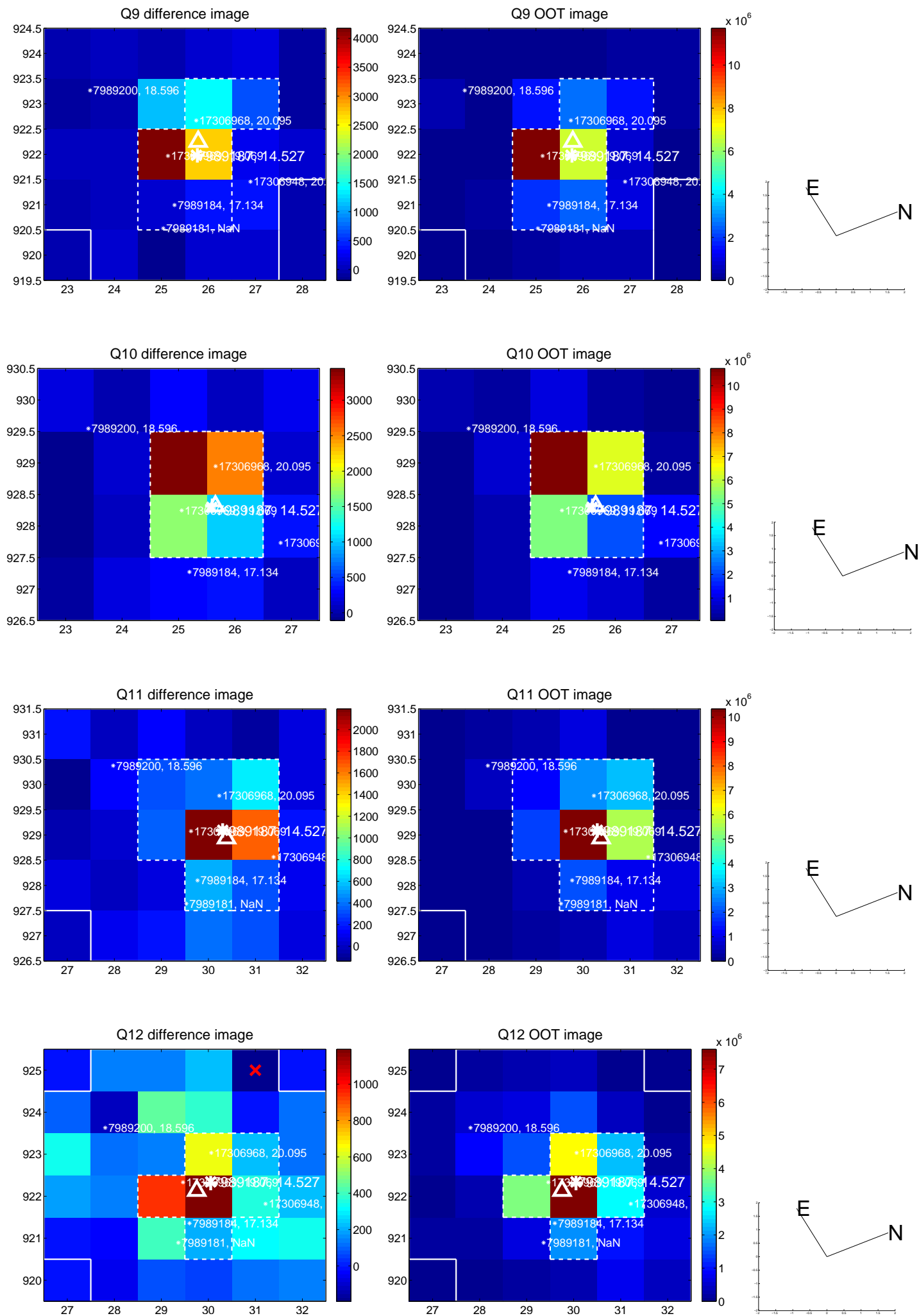
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



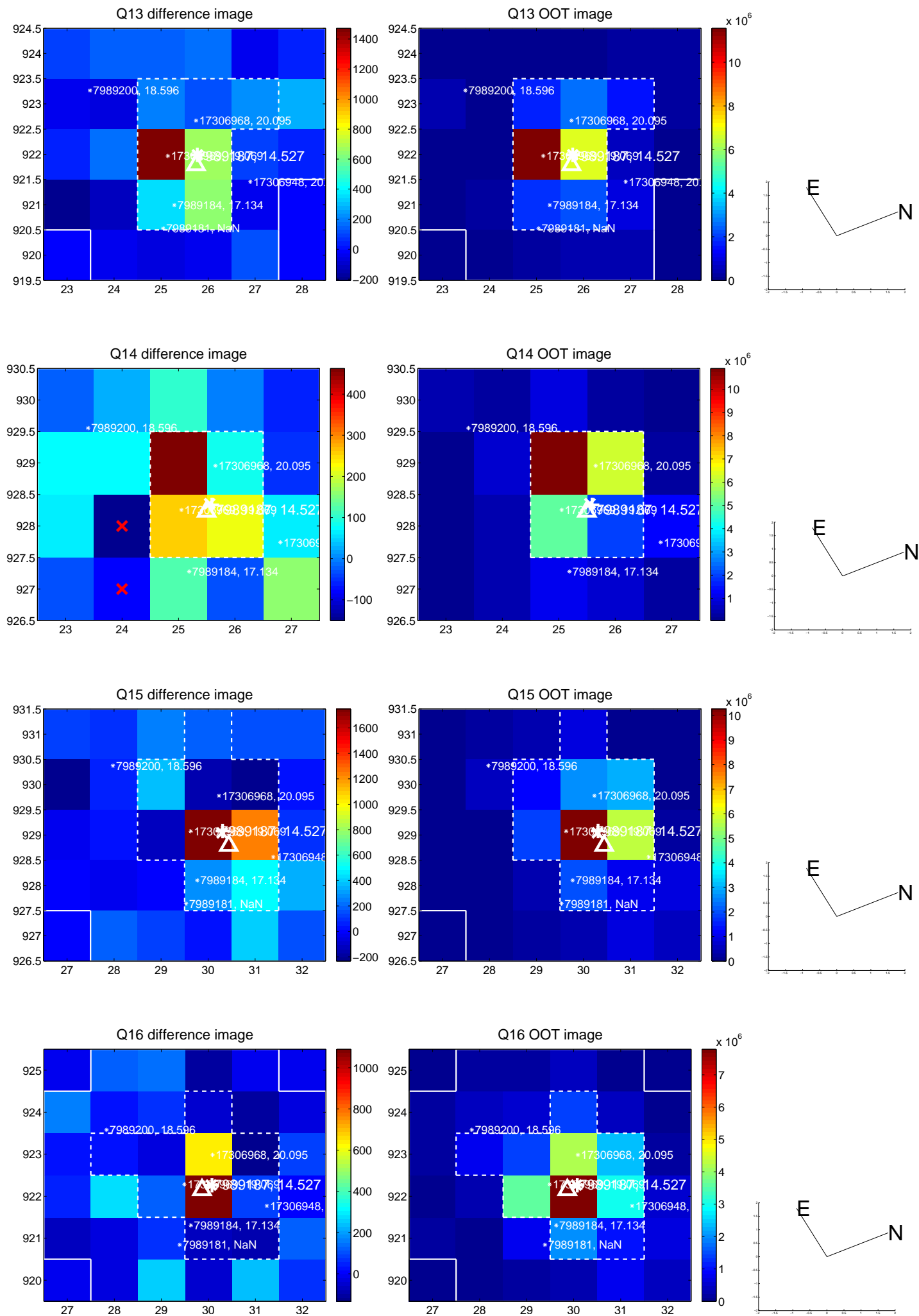
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



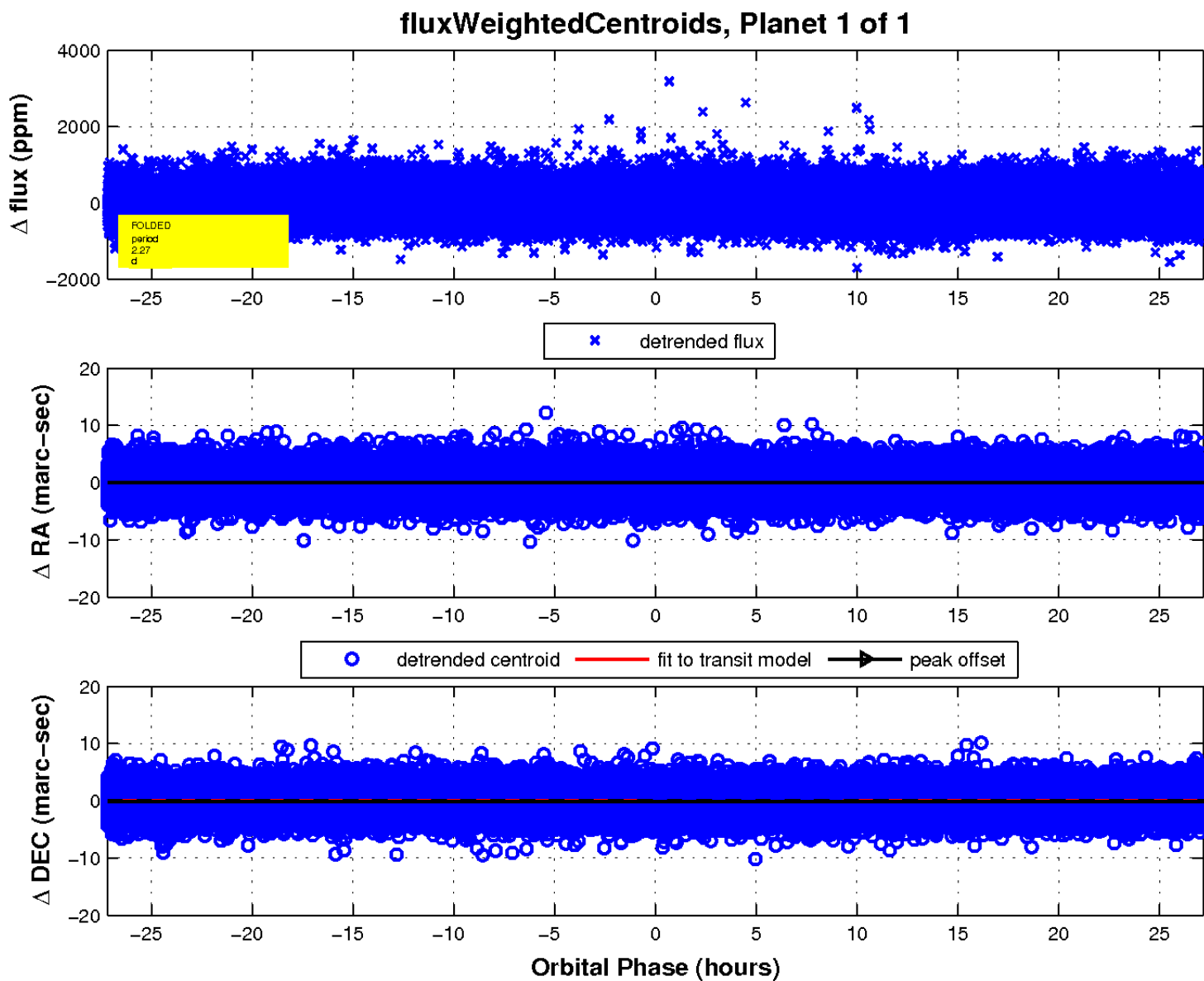
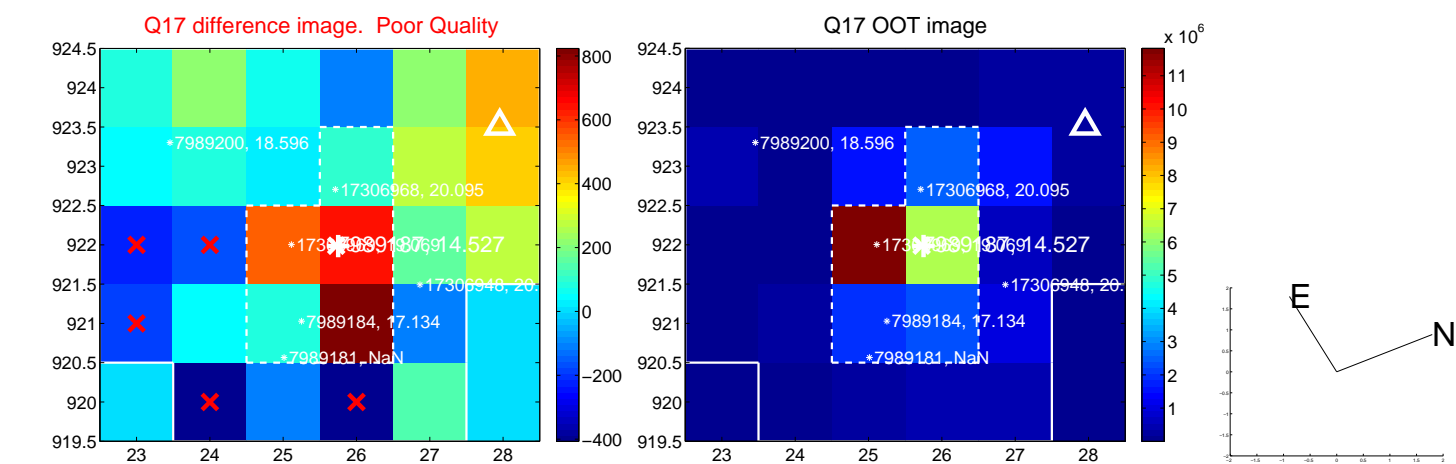
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image

Declination

