

KIC 006063190

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})
006063190-01	OBS	No	4.769767	135.576935	77.6	14.003	7.1	6.7	0.80	5497	0.92	183.99

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006063190-01	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.

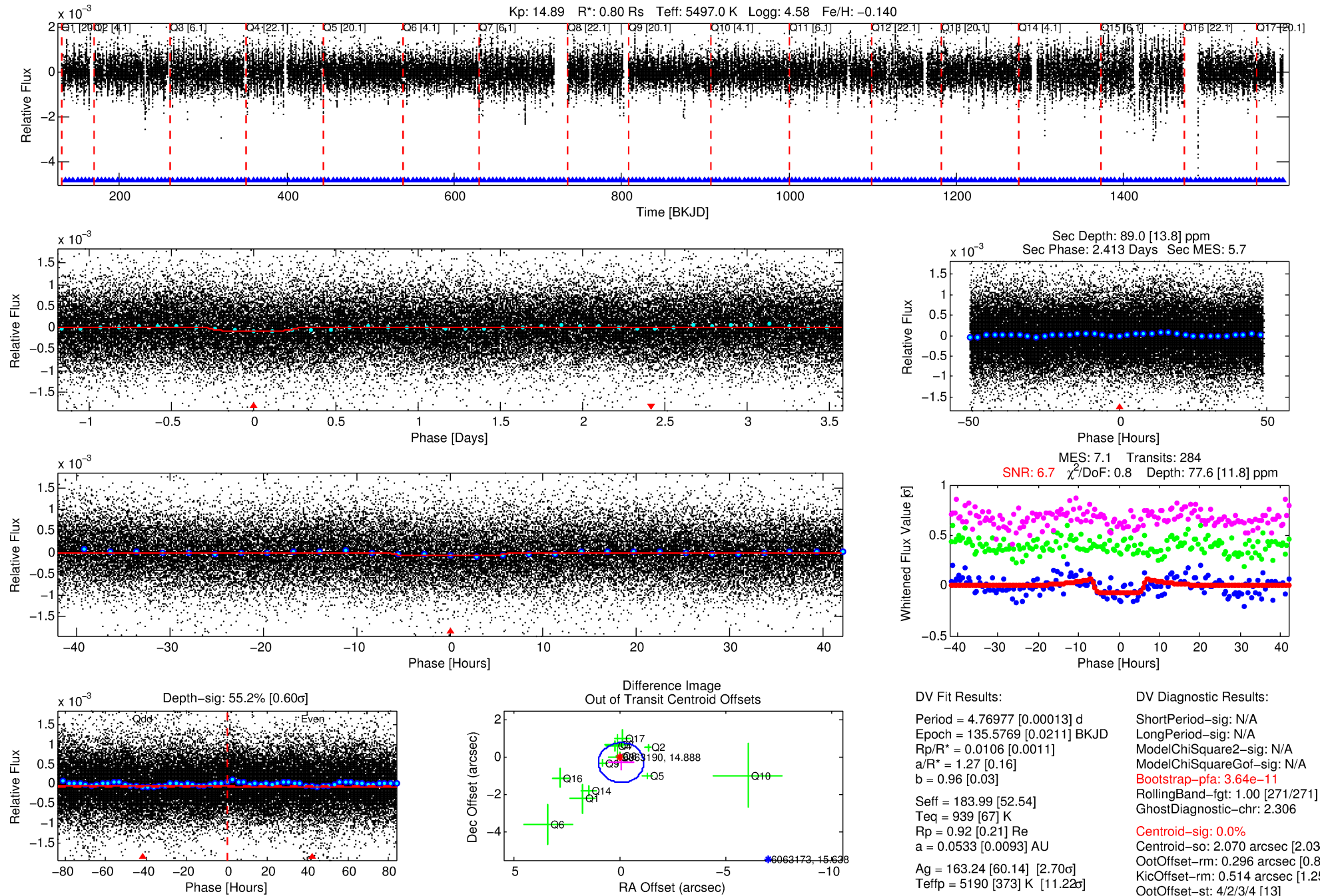
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006063190-01

No Significant Match Found

DV One-Page Summary

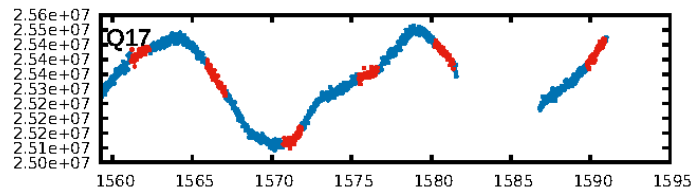
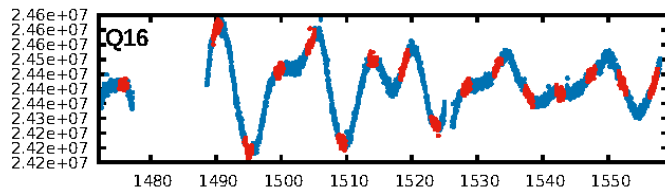
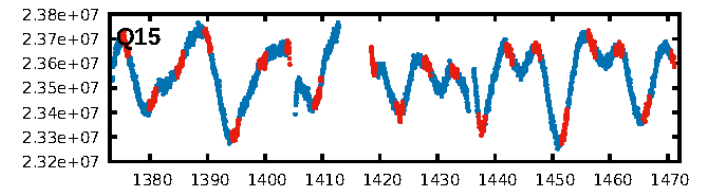
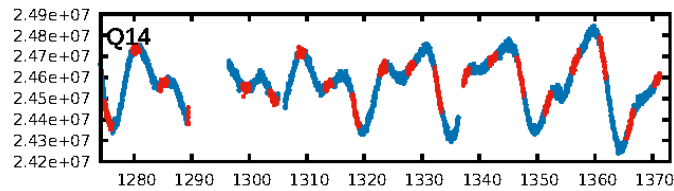
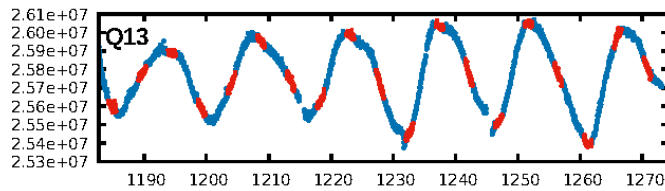
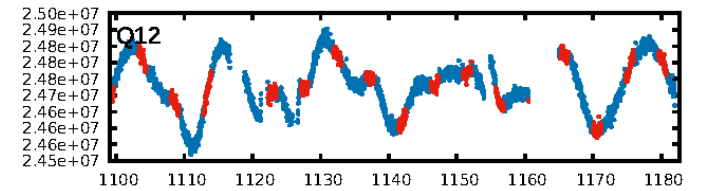
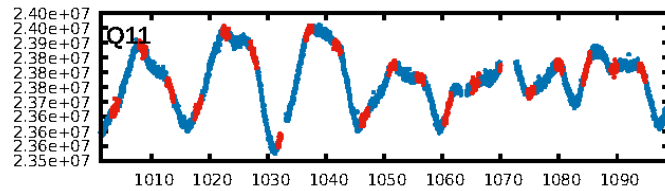
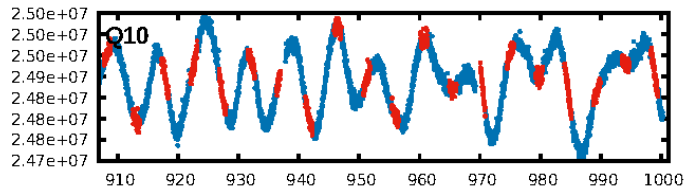
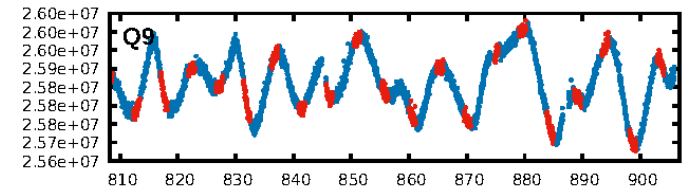
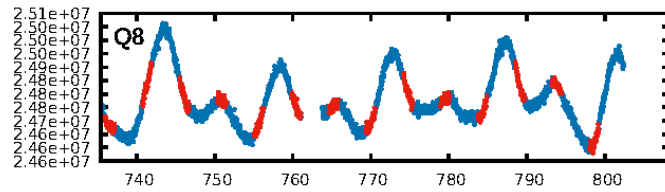
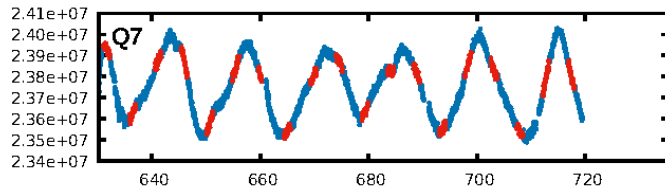
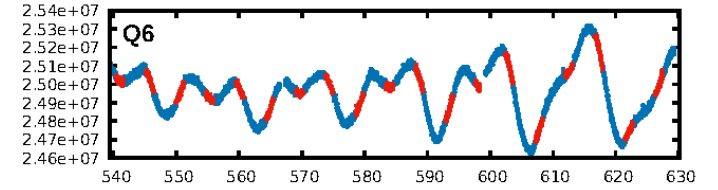
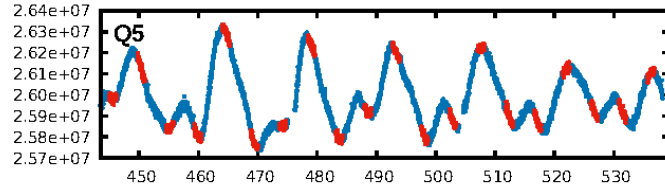
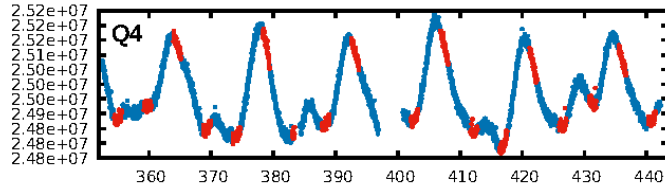
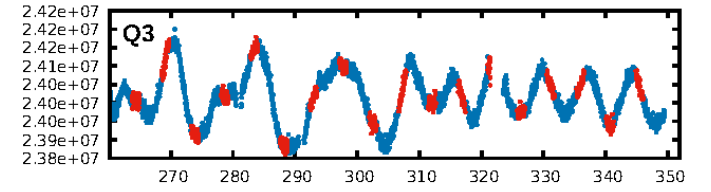
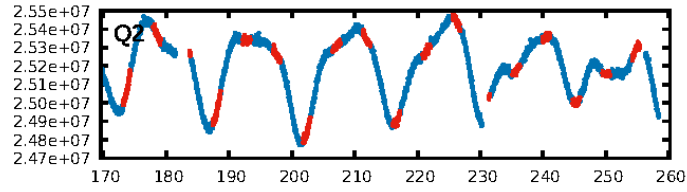
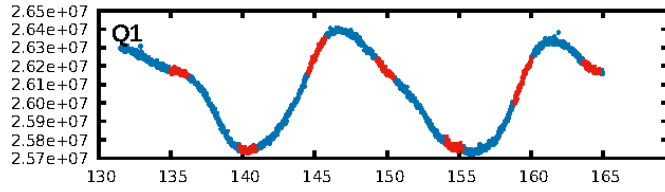
KIC: 6063190 Candidate: 1 of 1 Period: 4.770 d



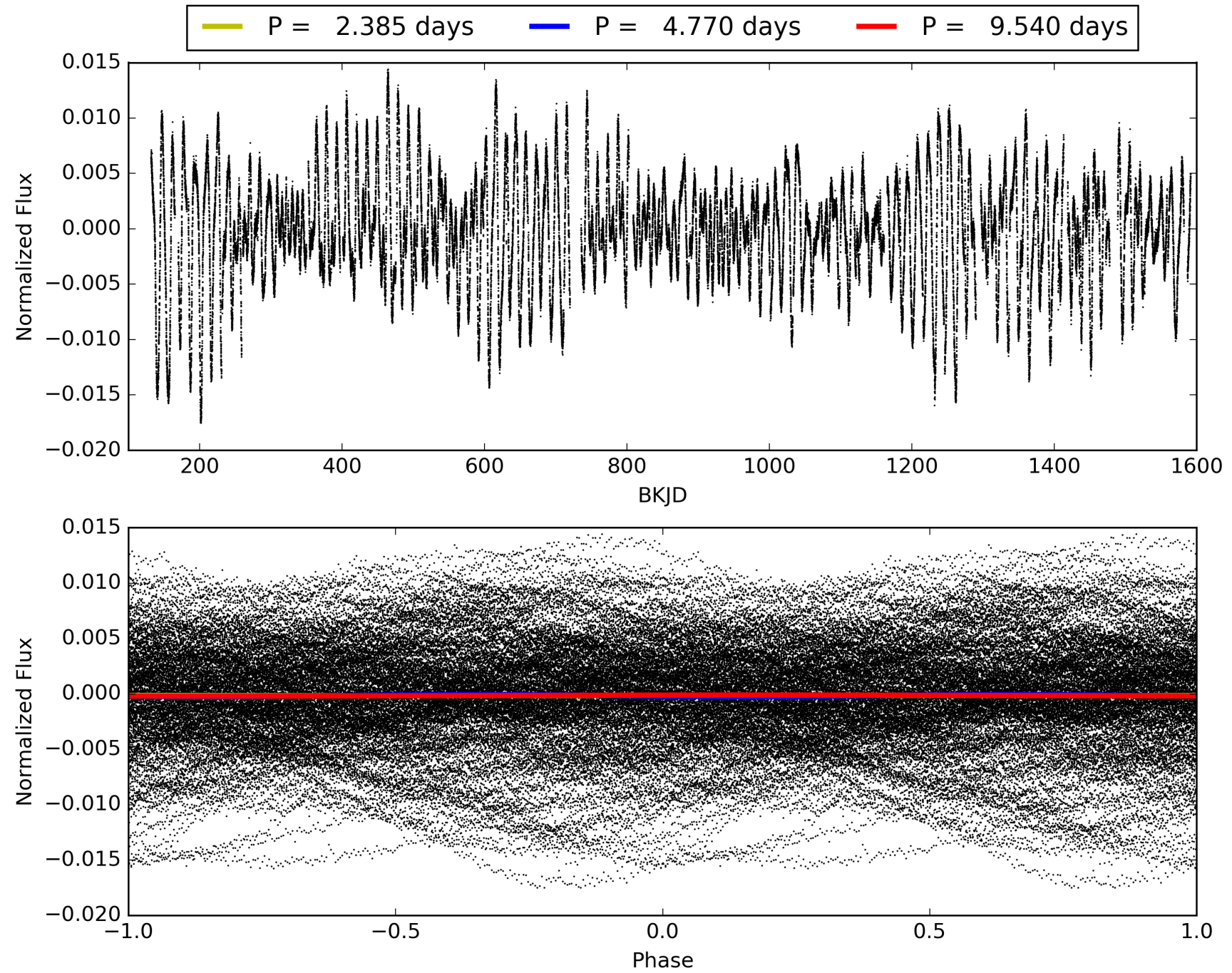
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006063190-01, PDC Light Curves

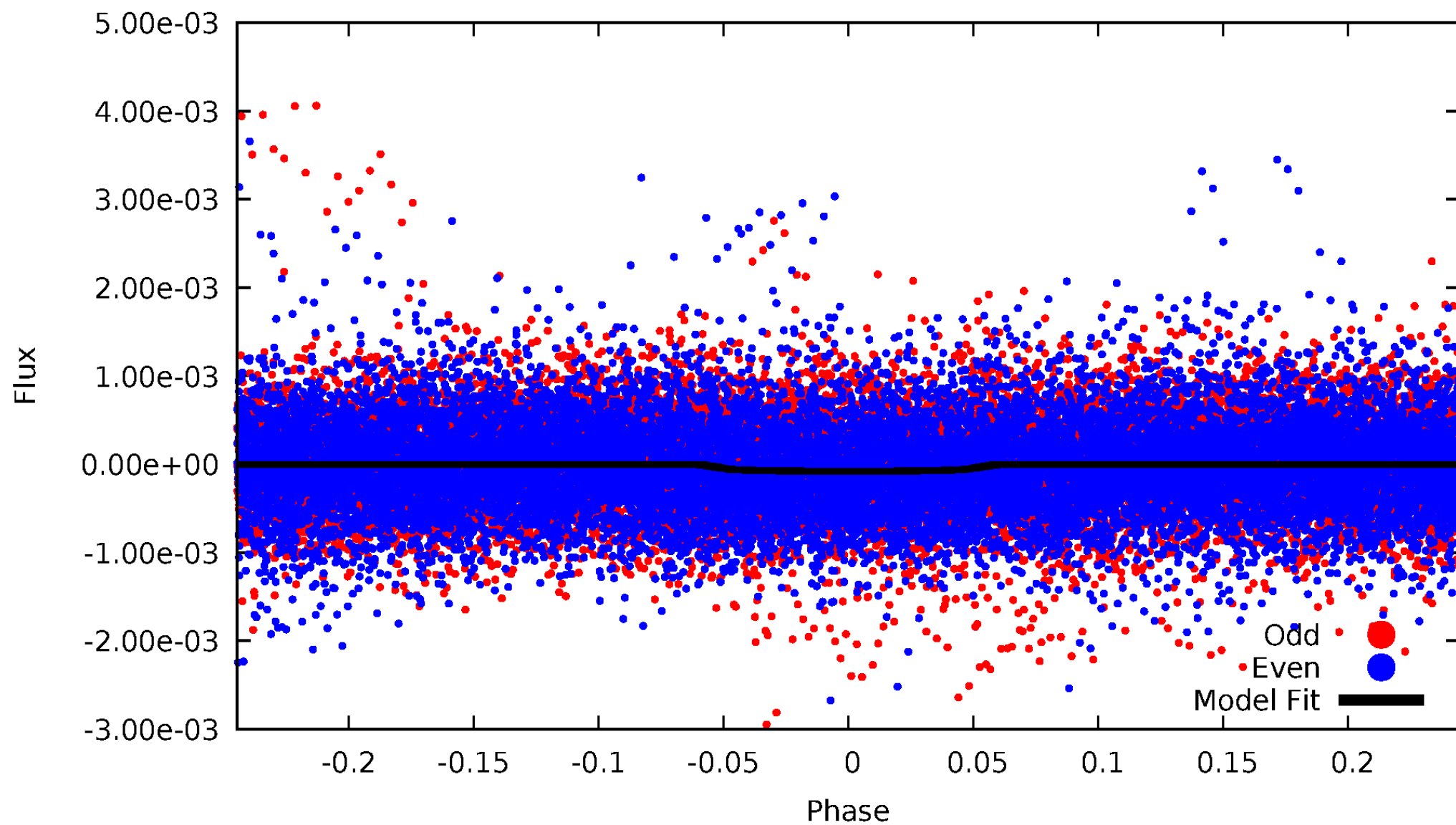


TCE 006063190-01



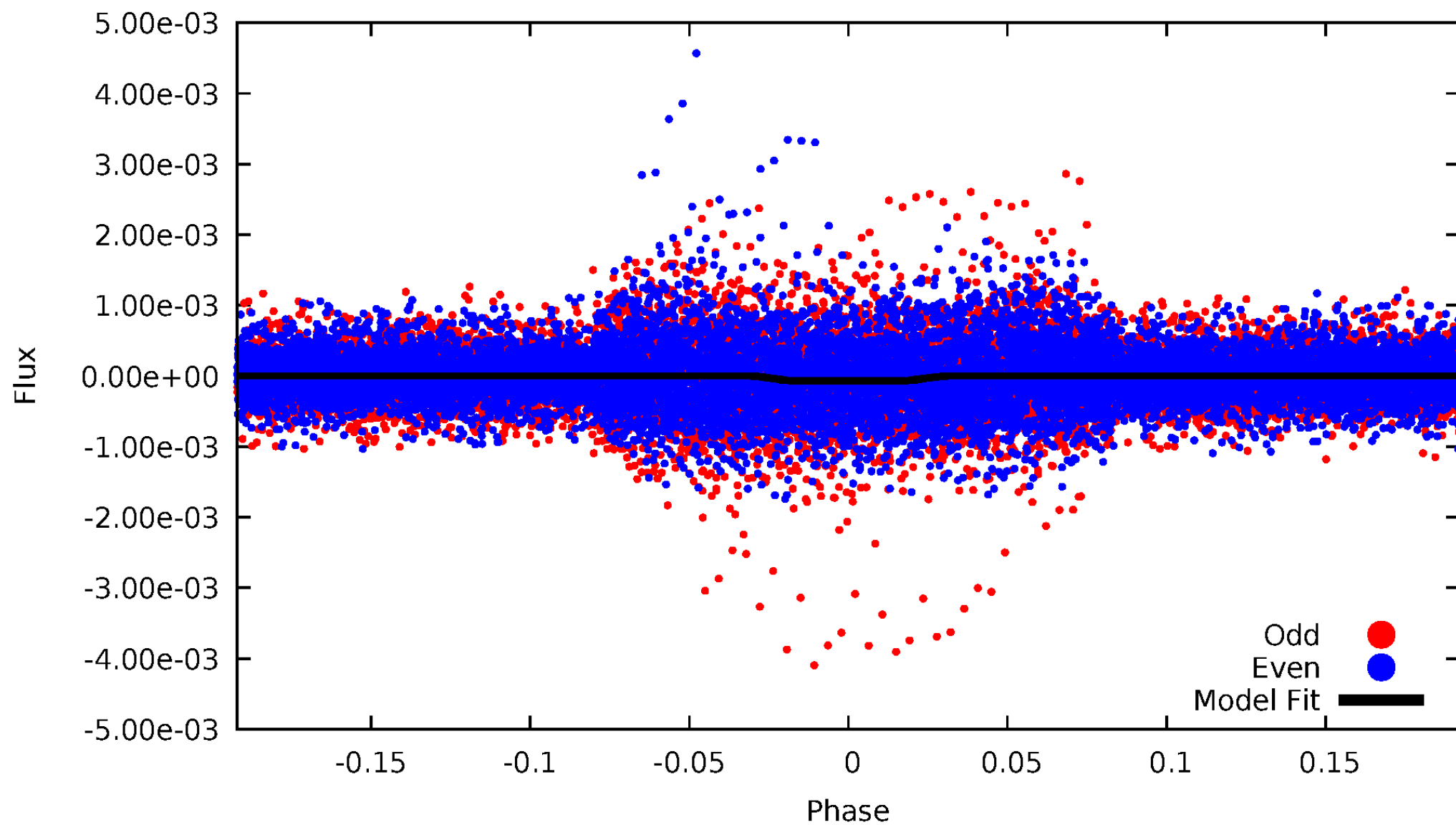
DV Odd/Even

TCE 006063190-01



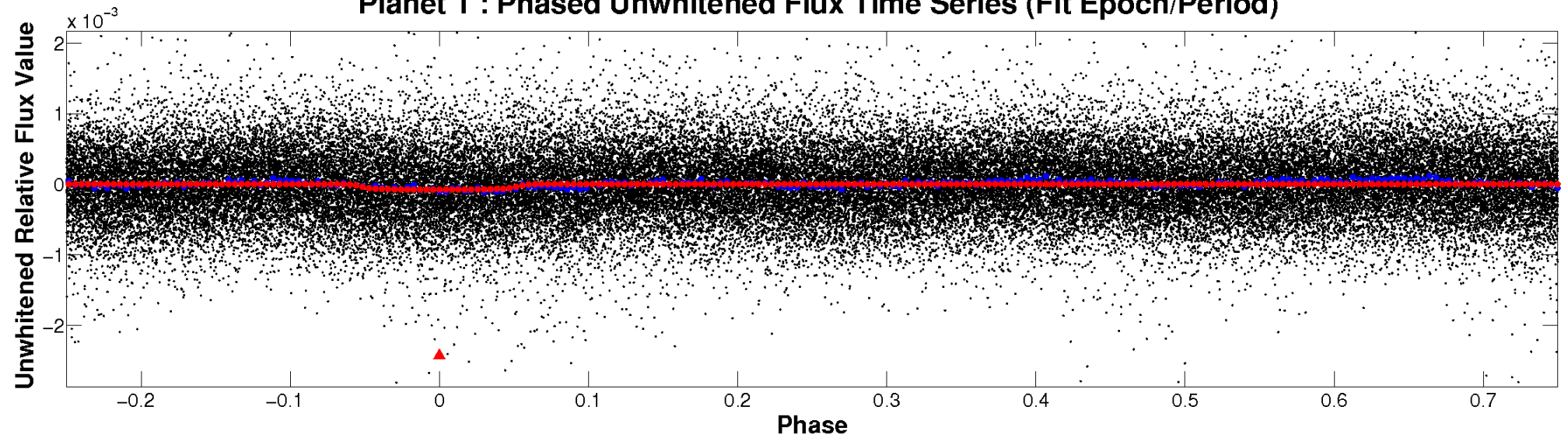
ALT Odd/Even

TCE 006063190-01

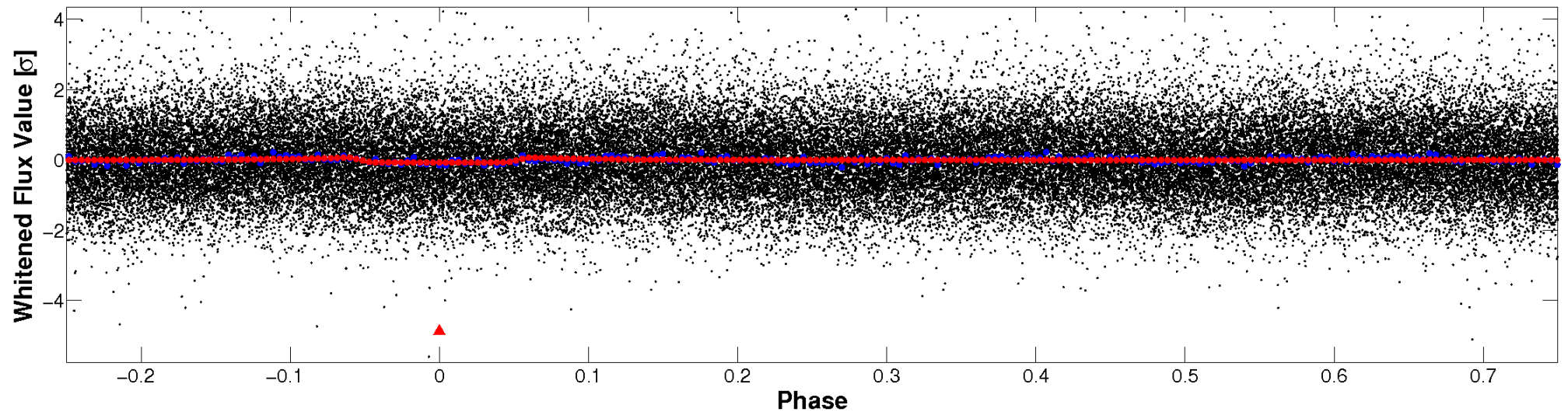


Non-Whitened Vs. Whitened Light Curve

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

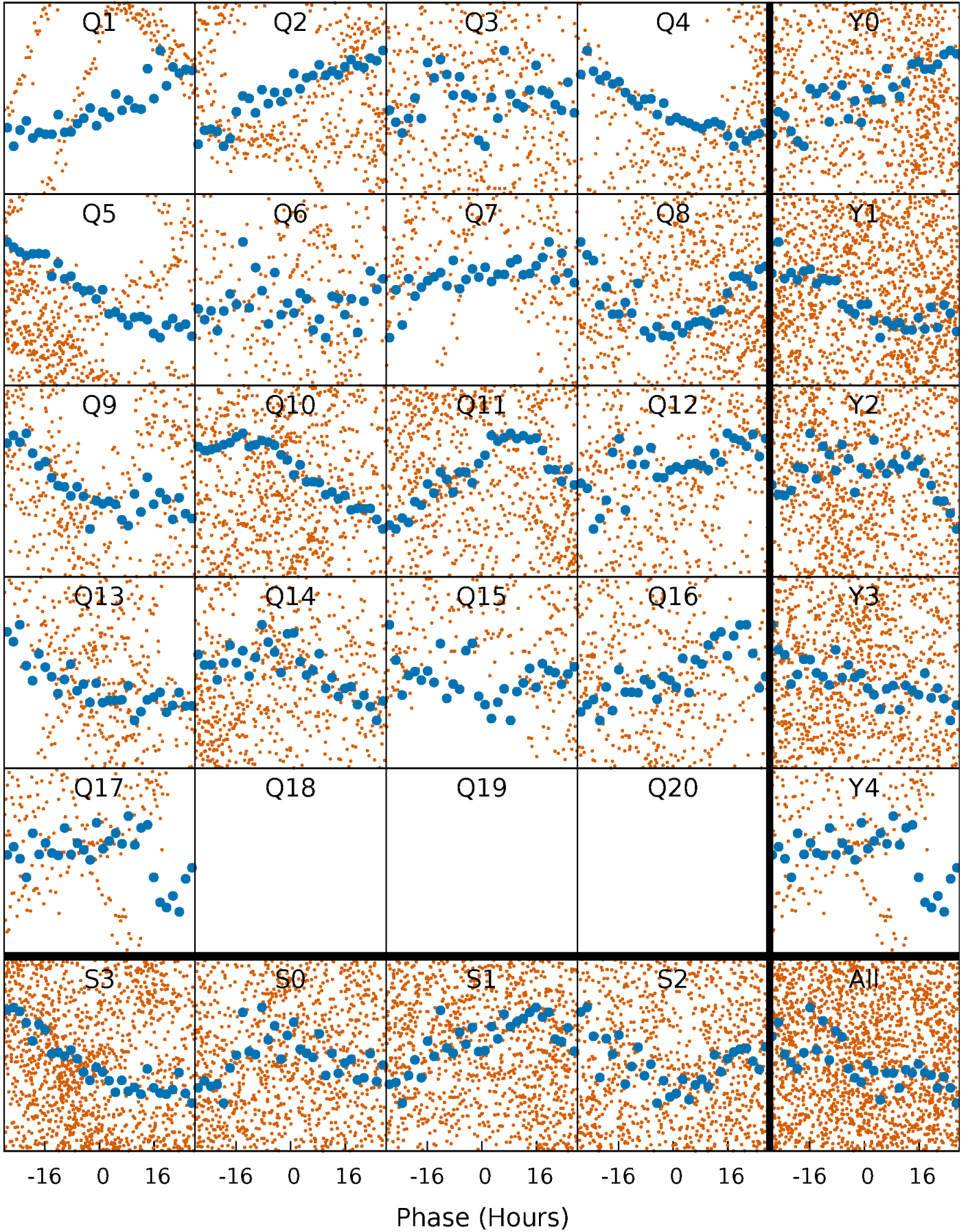


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



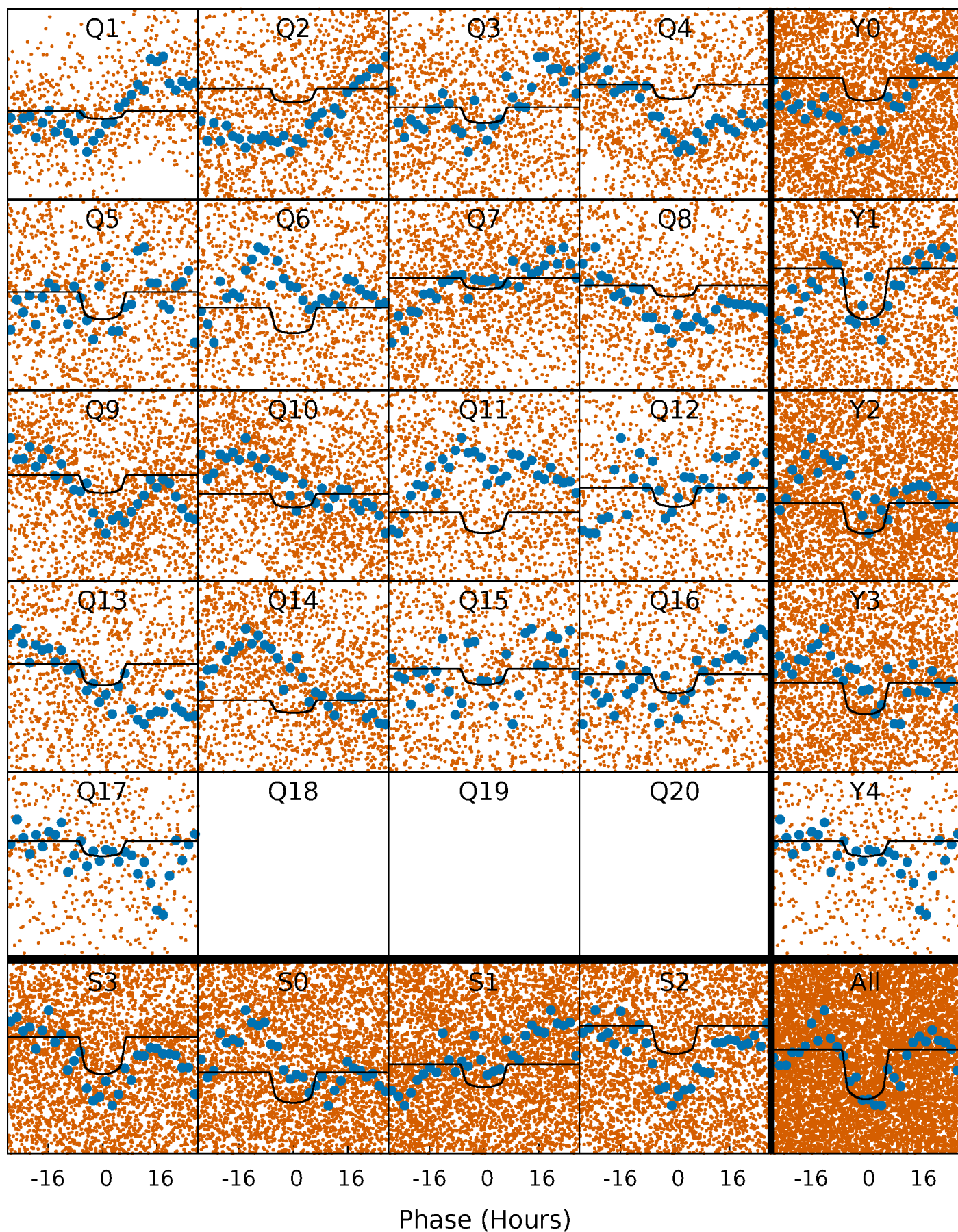
PDC Quarter-Phased Transit Curves

TCE 006063190-01 P= 4.769767 Days $T_0=135.576935$ (BKJD)



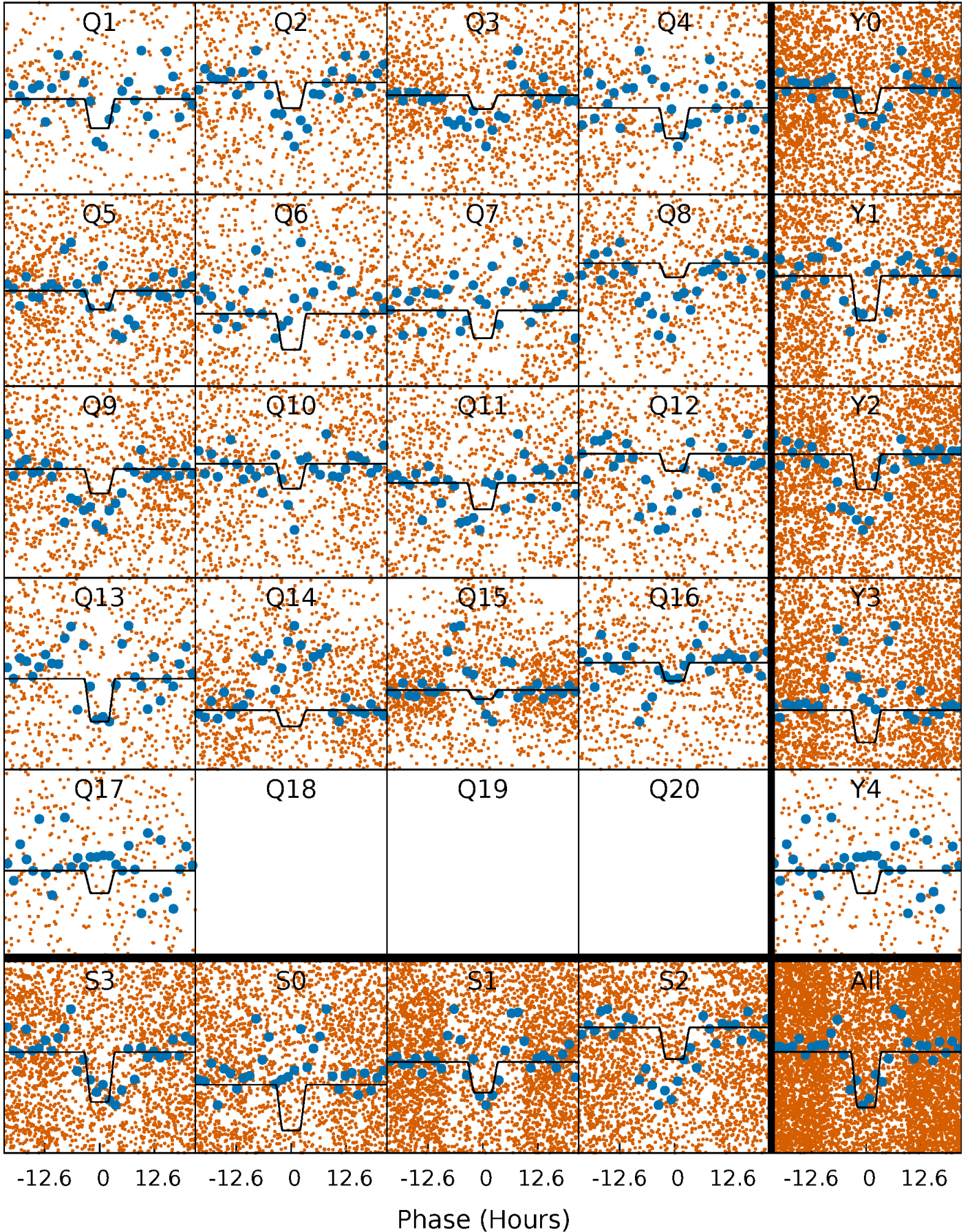
DV Quarter-Phased Transit Curves

TCE 006063190-01 P= 4.769767 Days $T_0=135.576935$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

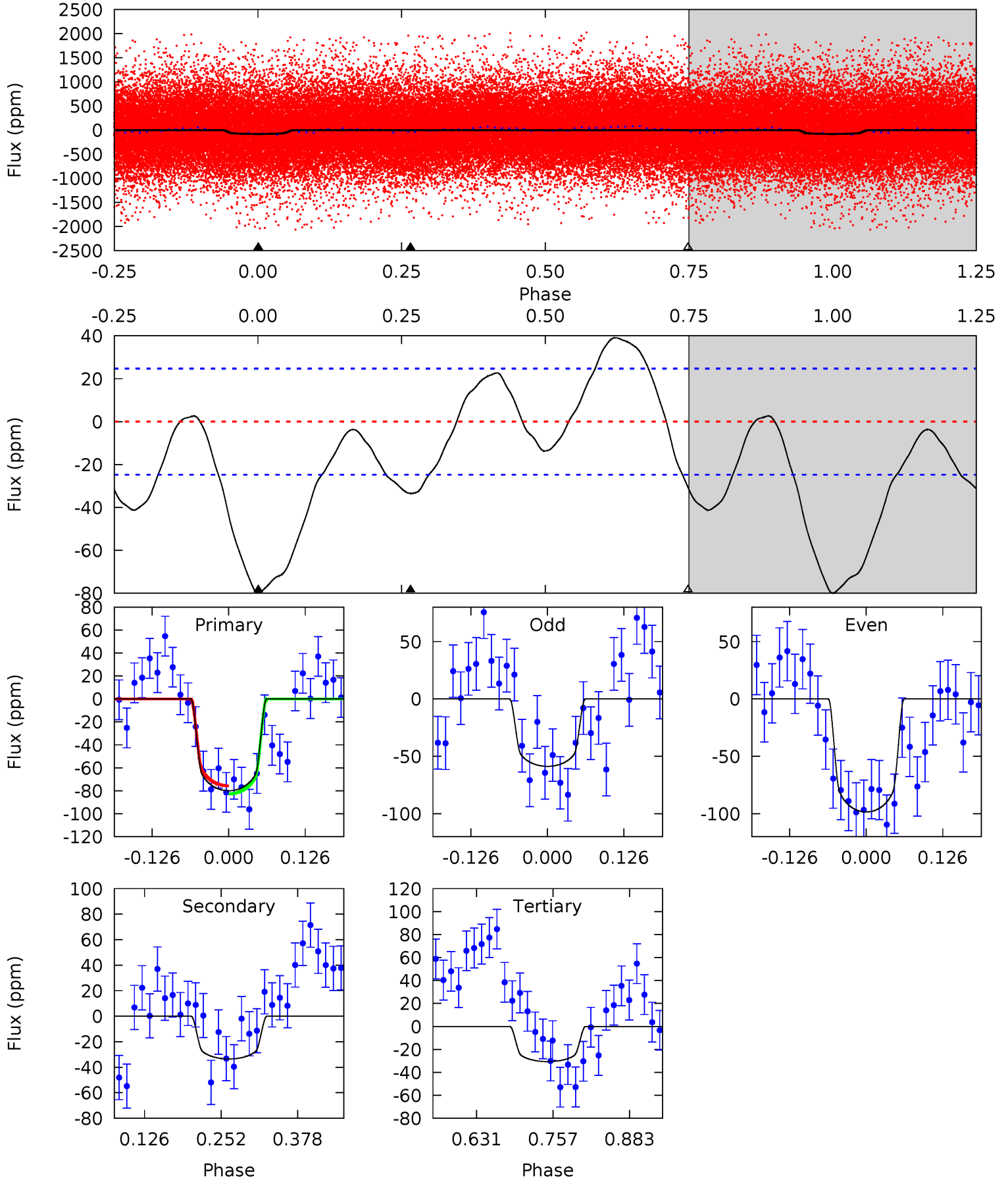
TCE 006063190-01 P= 4.769984 Days $T_0=135.550189$ (BKJD)



DV Model-Shift Uniqueness Test

006063190-01, P = 4.769767 Days, E = 130.807168 Days

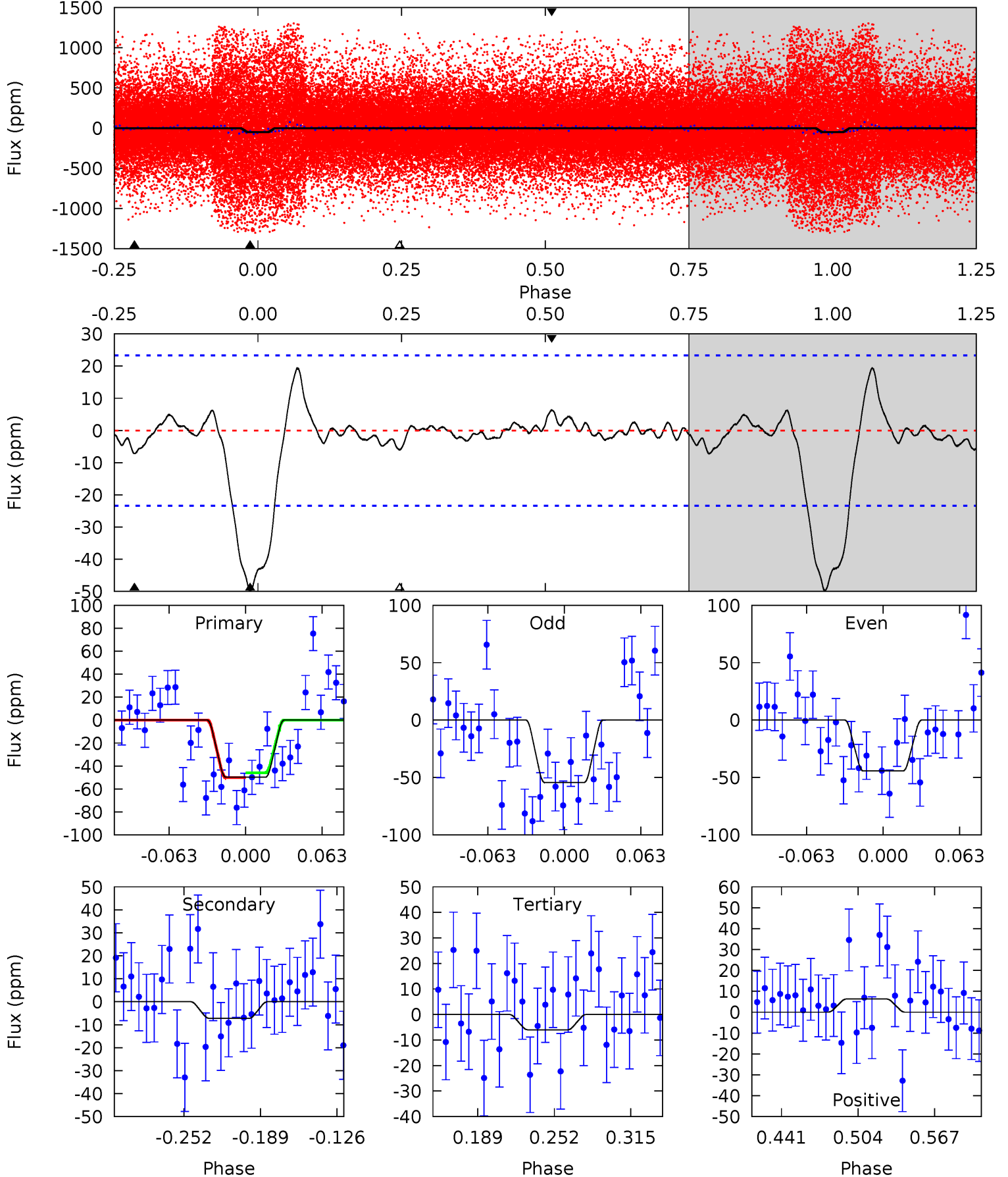
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.6	6.11	5.59	0	4.52	1.53	4.38	9.00	14.6	0.52	6.11	3.63	1.04	0.33	0.64



Alt Model-Shift Uniqueness Test

006063190-01, P = 4.769984 Days, E = 130.780205 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.92	1.44	1.20	1.26	4.66	1.86	0.74	8.72	8.66	0.24	0.18	0.99	1.51	0.28	0.42



Stellar Parameters For KIC 006063190

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5497^{+147}_{-164}	$4.581^{+0.034}_{-0.144}$	$-0.140^{+0.300}_{-0.300}$	$0.800^{+0.163}_{-0.070}$	$0.896^{+0.082}_{-0.101}$	$2.467^{+0.465}_{-0.997}$
	+3%/-3%	+1%/-3%	+214%/-214%	+20%/-9%	+9%/-11%	+19%/-40%
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 006063190-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-33 ± 5	$0.95^{+0.14}_{-0.12}$	1335^{+67}_{-55}	4272^{+247}_{-231}	56^{+20}_{-16}
Alt.	-7 ± 5	$0.75^{+0.12}_{-0.12}$	1336^{+68}_{-51}	3558^{+408}_{-650}	19^{+18}_{-14}

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

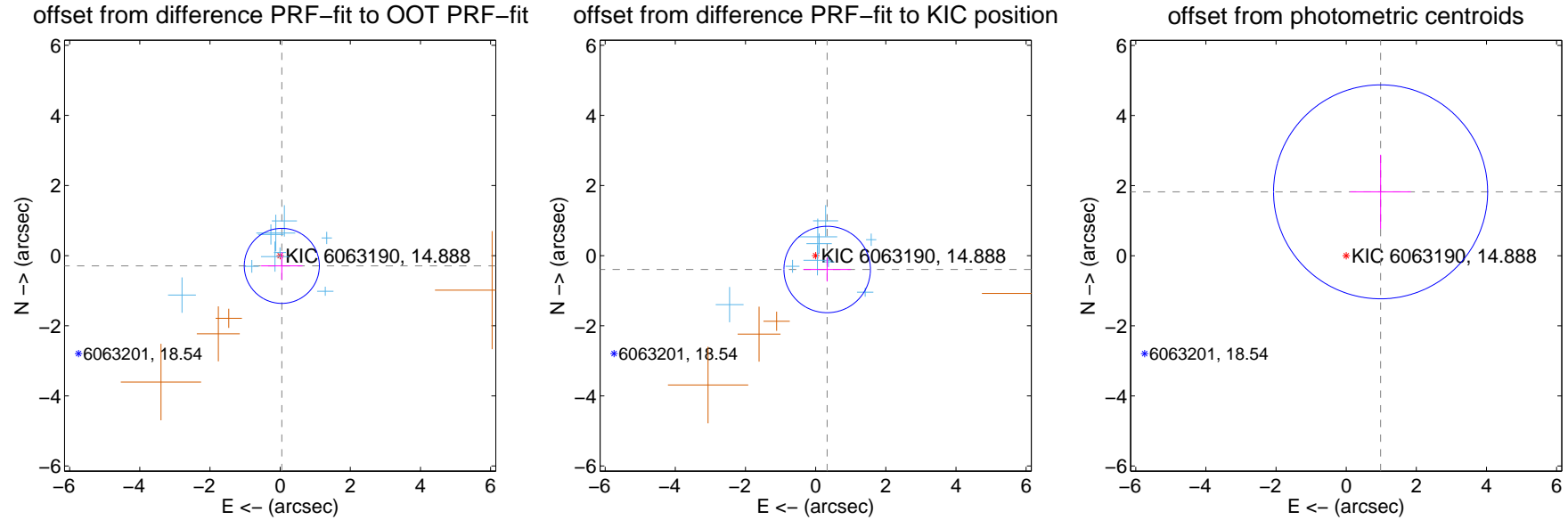
DV Centroid Data

Supplemental centroid analysis for 006063190-01. Kepler magnitude: 14.89. Transit SNR 6.73

There are 9 quarters with good PRF difference image offsets

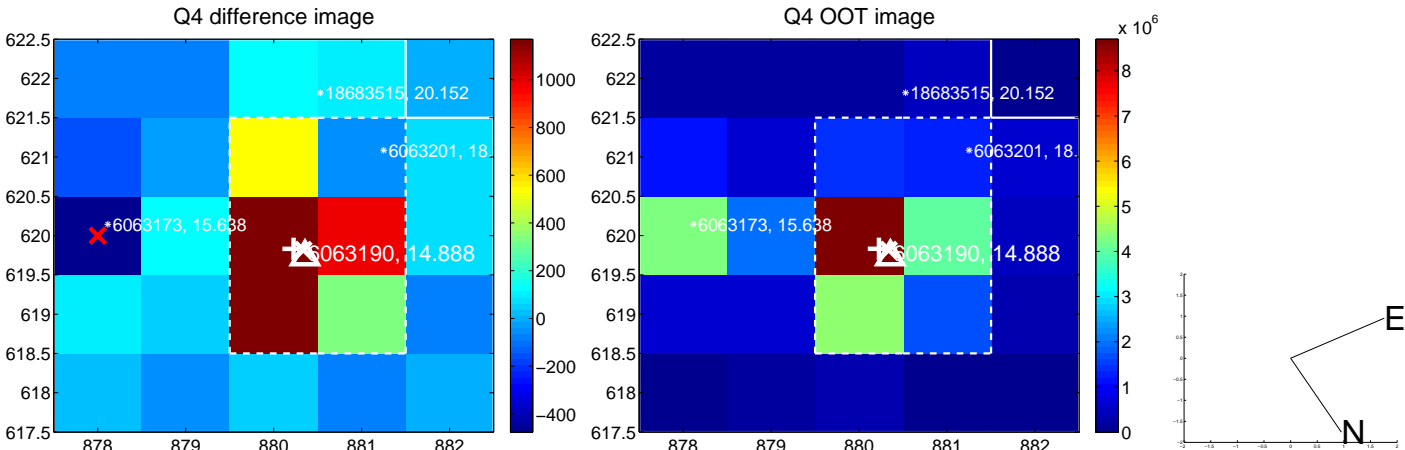
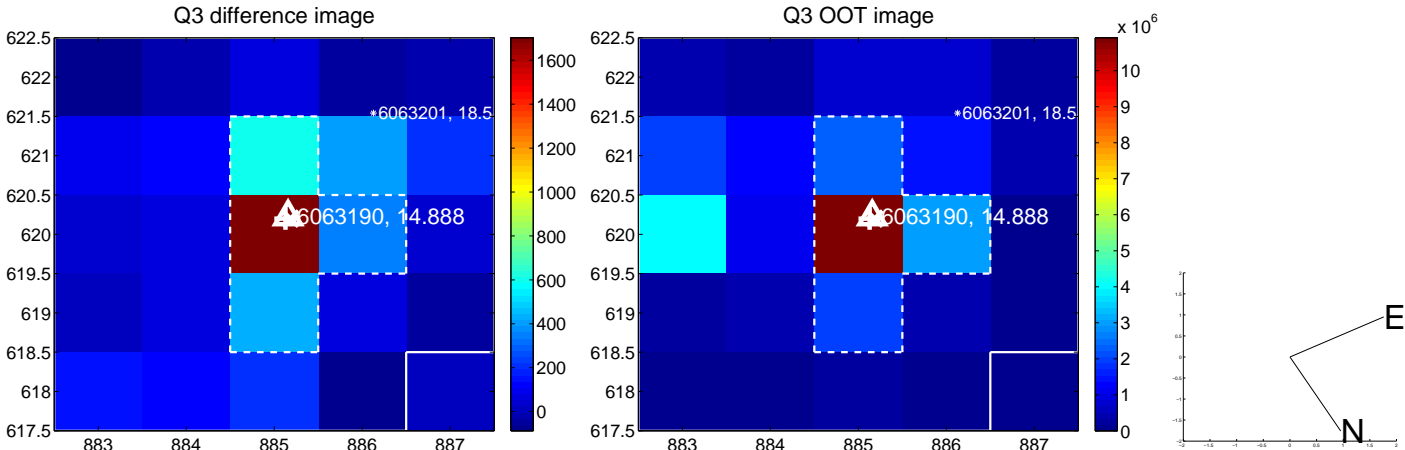
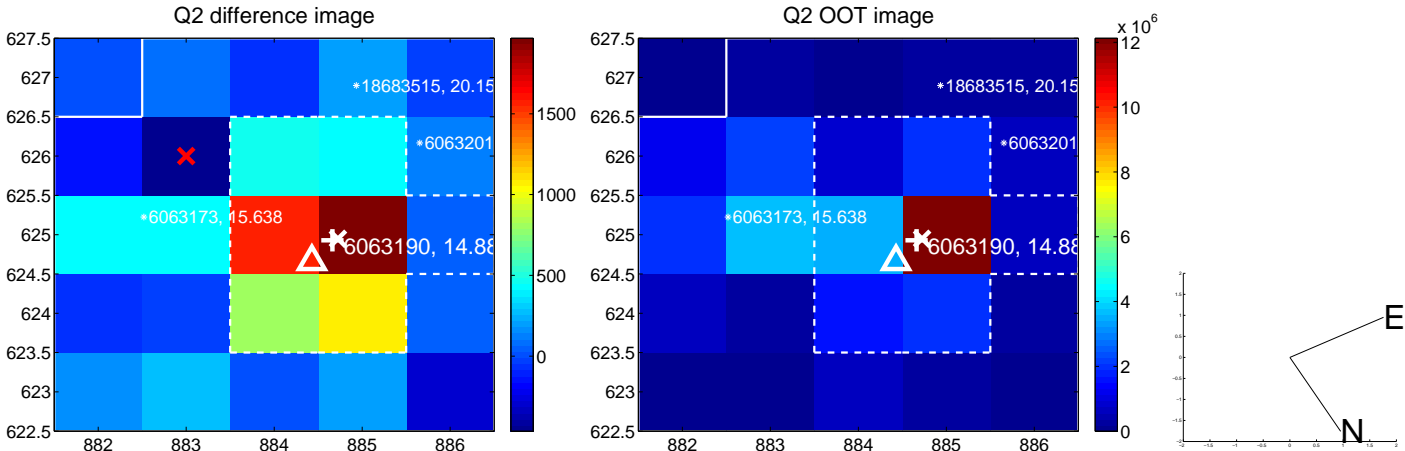
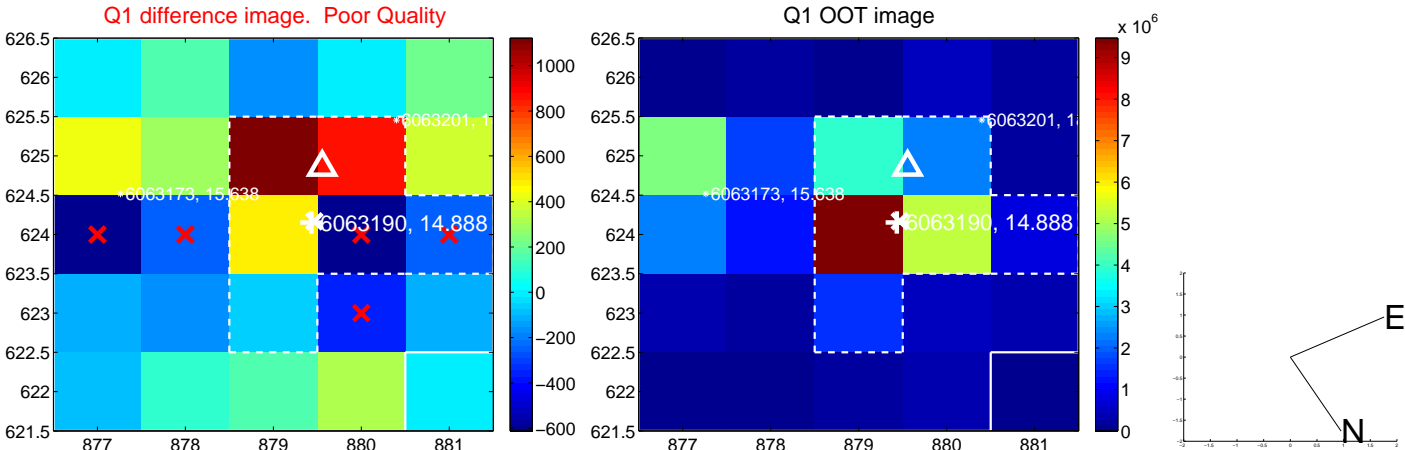
The direct PRF centroid is offset from the target star catalog position by about 0.16 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.296 ± 0.357	0.83	-0.048 ± 0.591	-0.292 ± 0.392
PRF-fit source offset from KIC position	0.514 ± 0.411	1.25	-0.329 ± 0.678	-0.395 ± 0.342
photometric centroid source offset	2.07 ± 1.02	2.03	-0.98 ± 0.87	1.82 ± 1.06

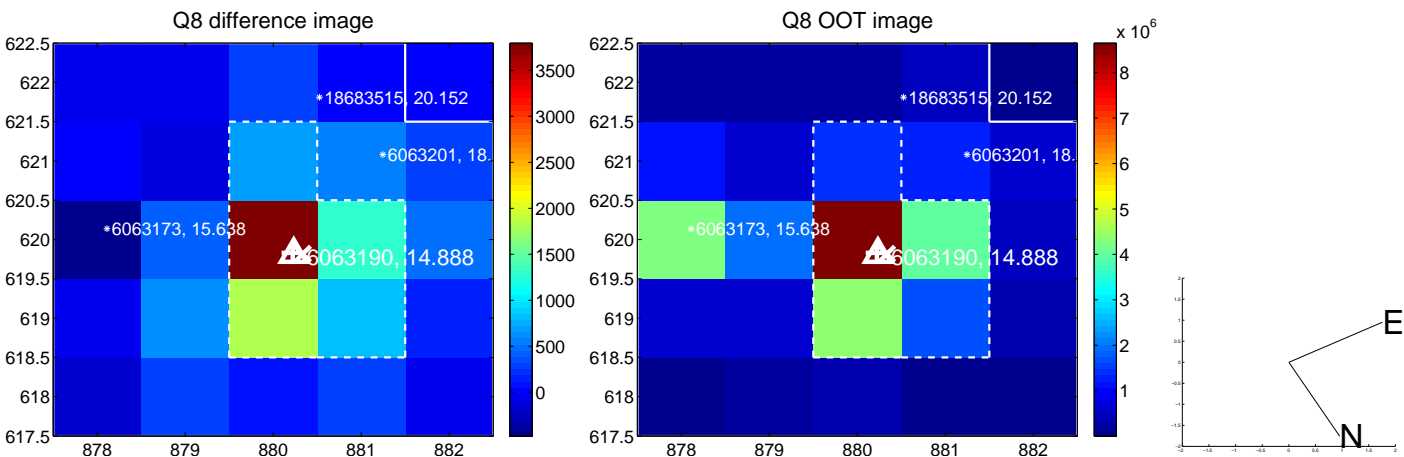
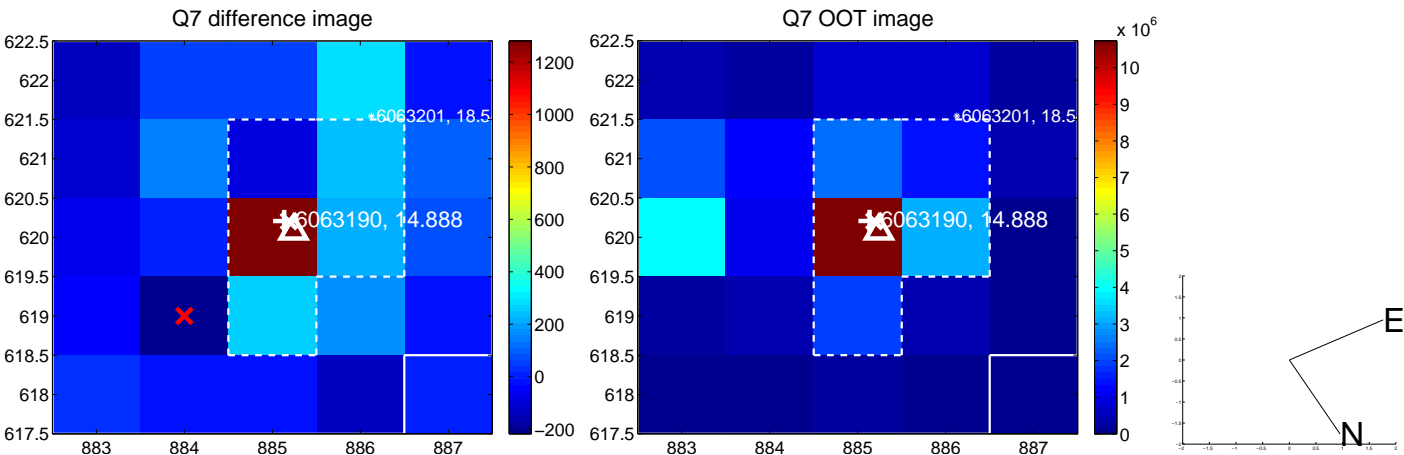
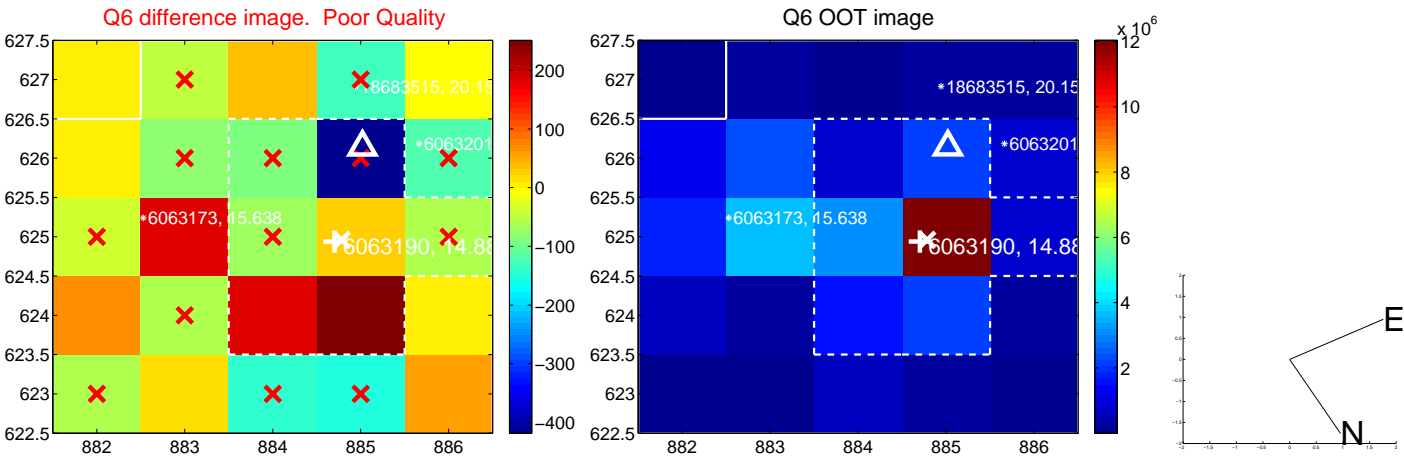
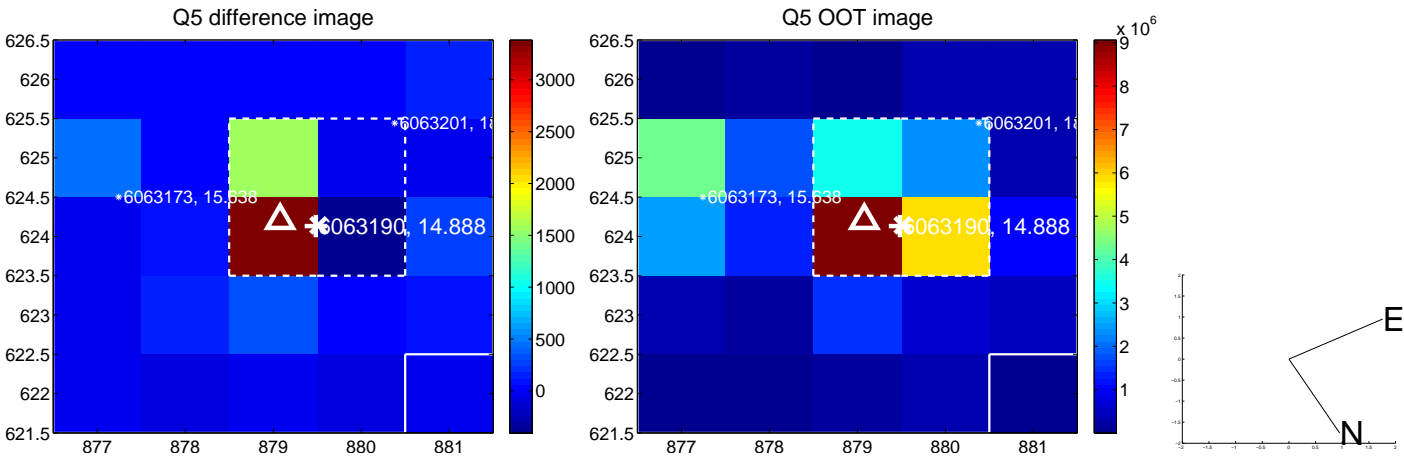


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

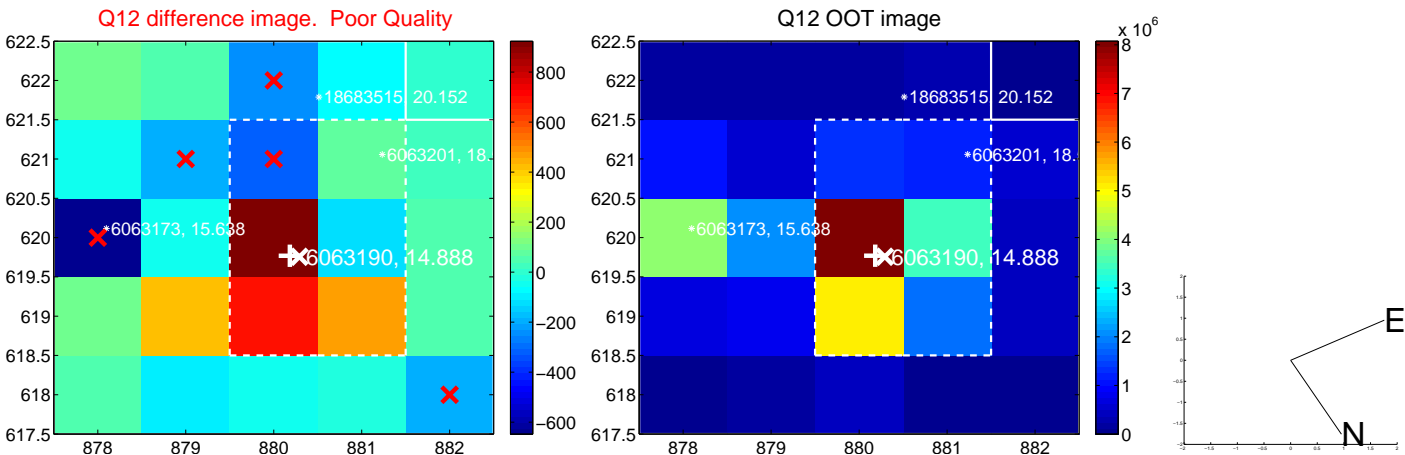
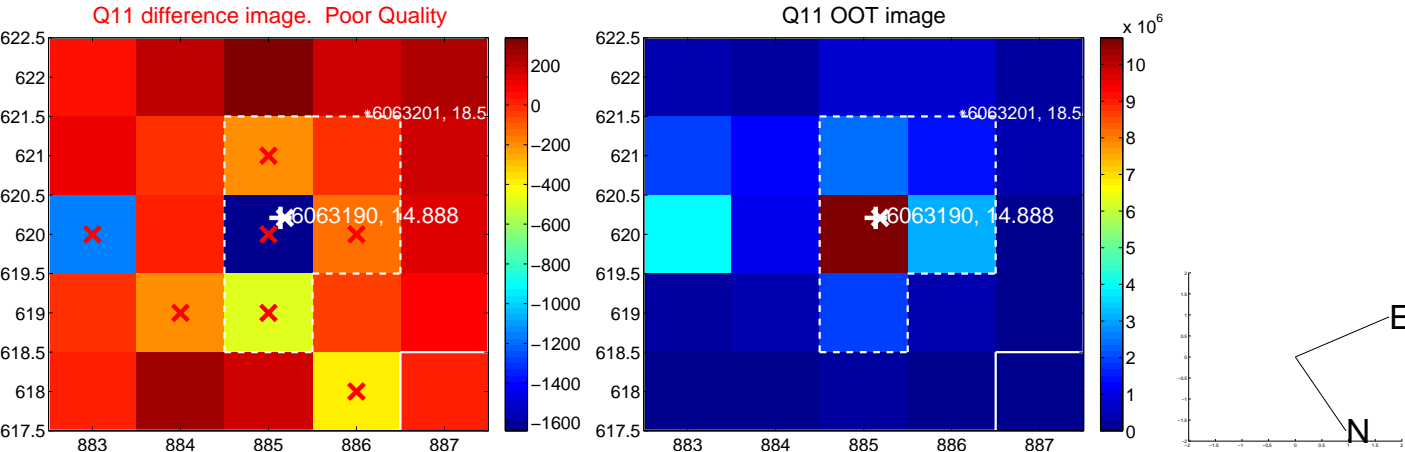
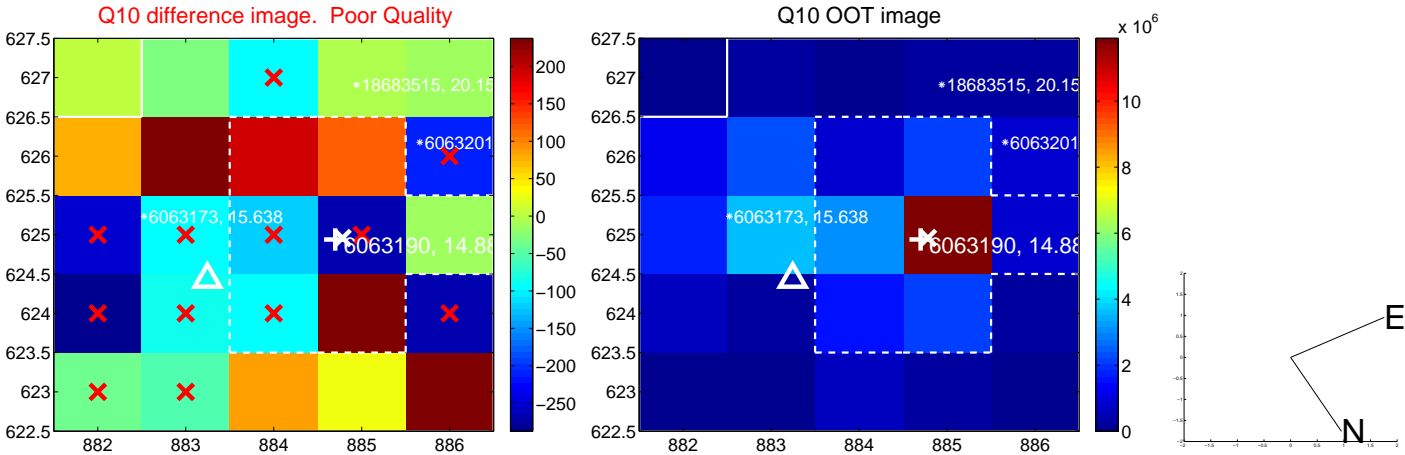
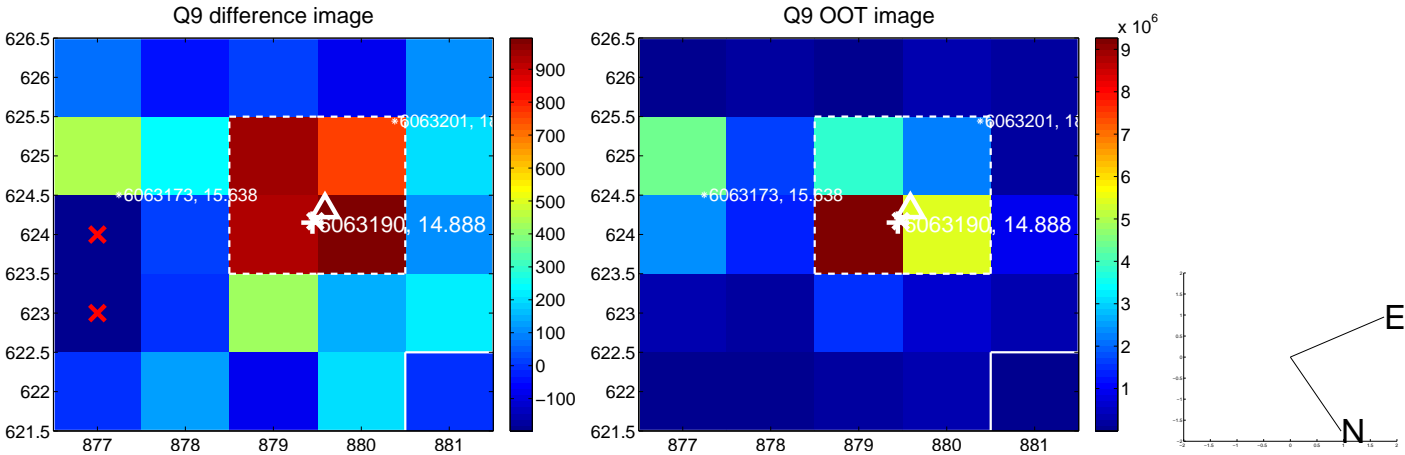
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



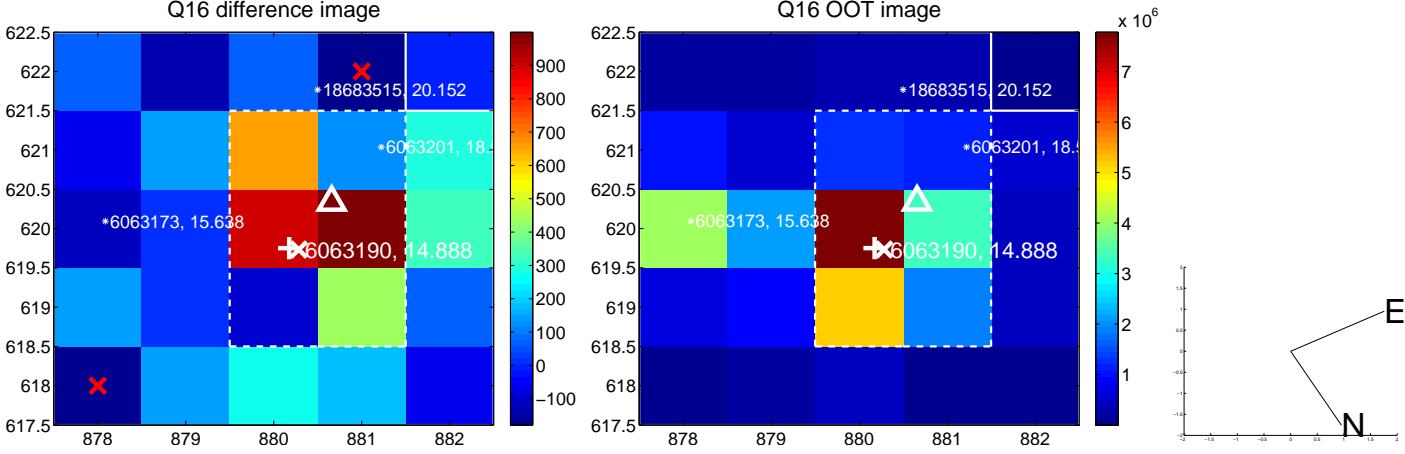
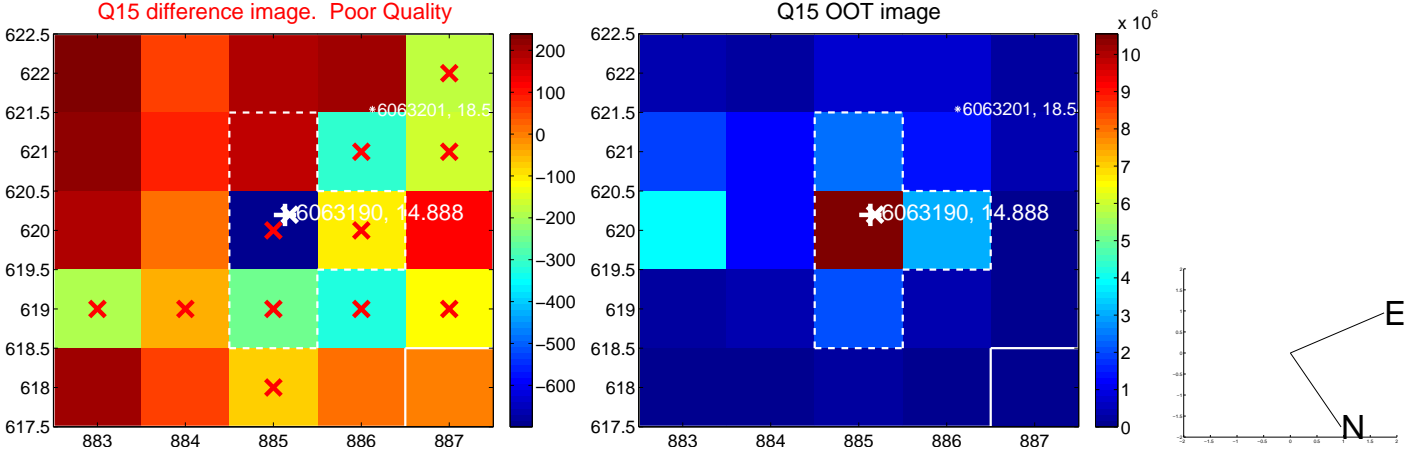
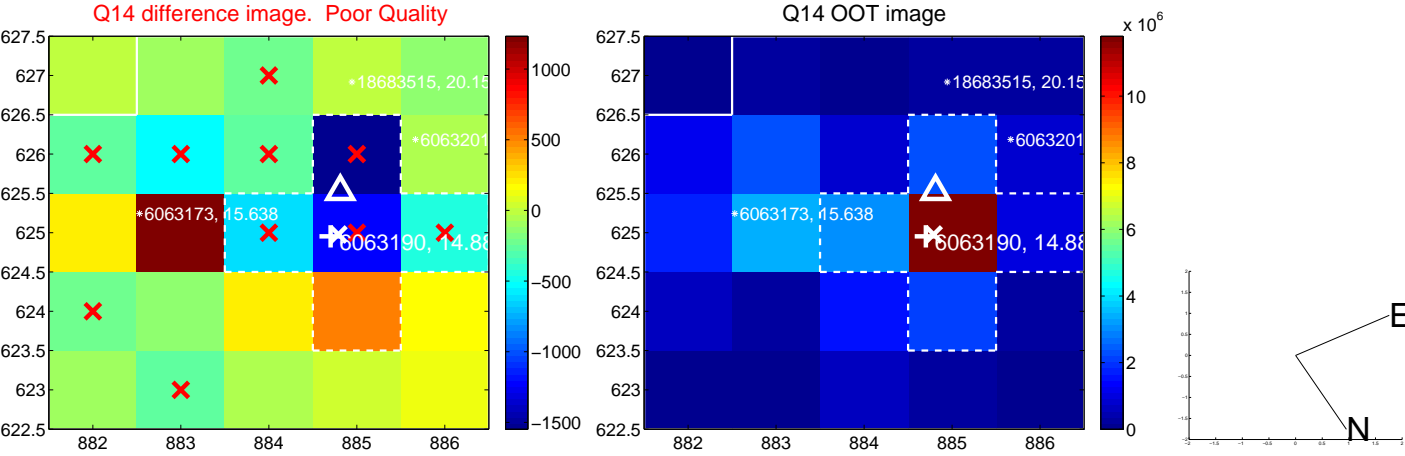
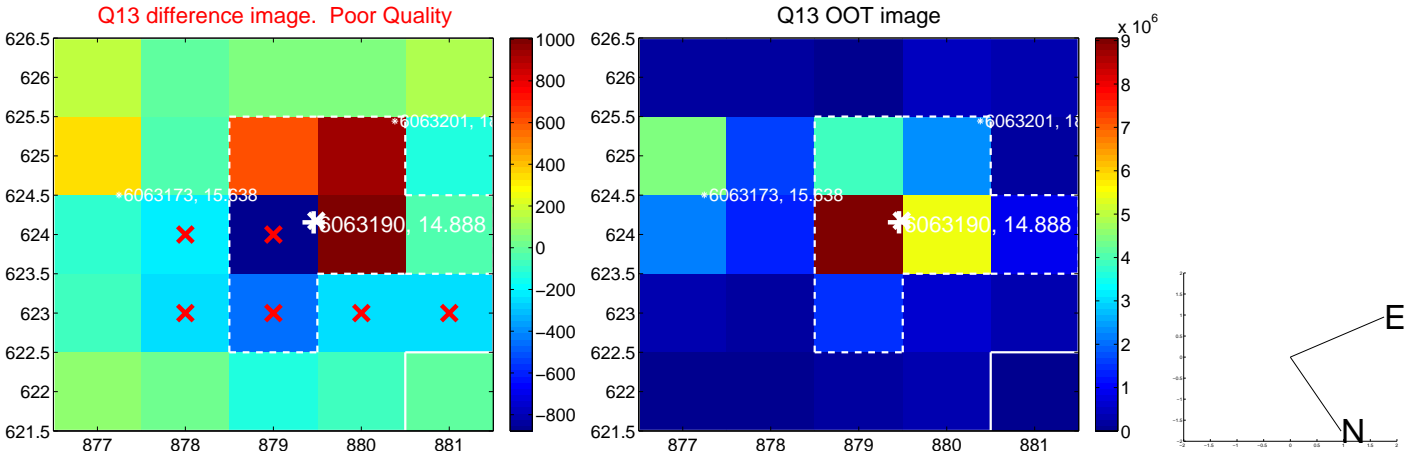
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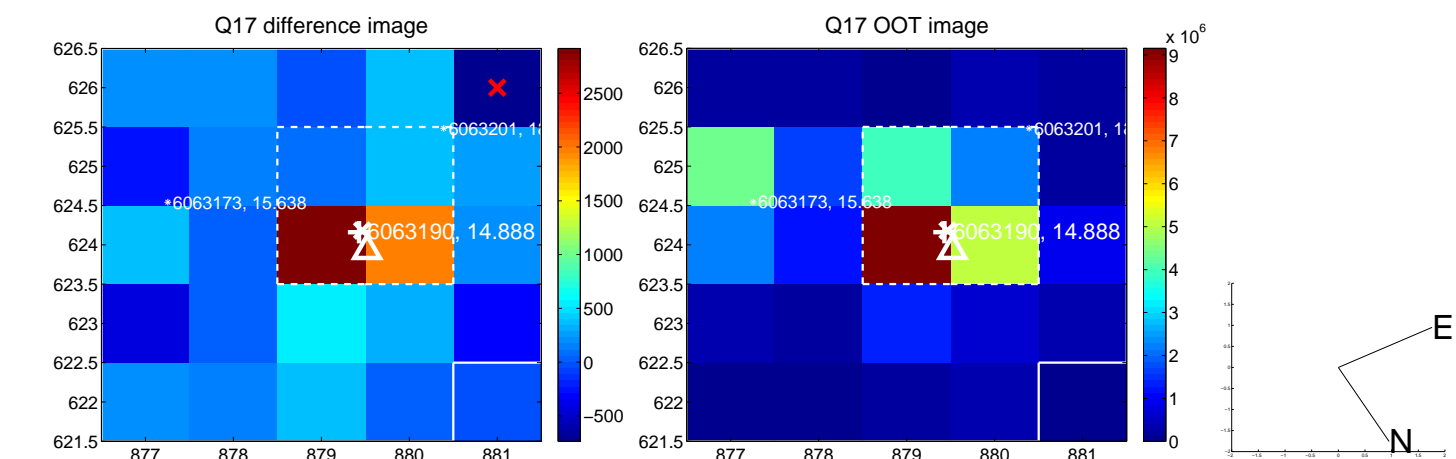
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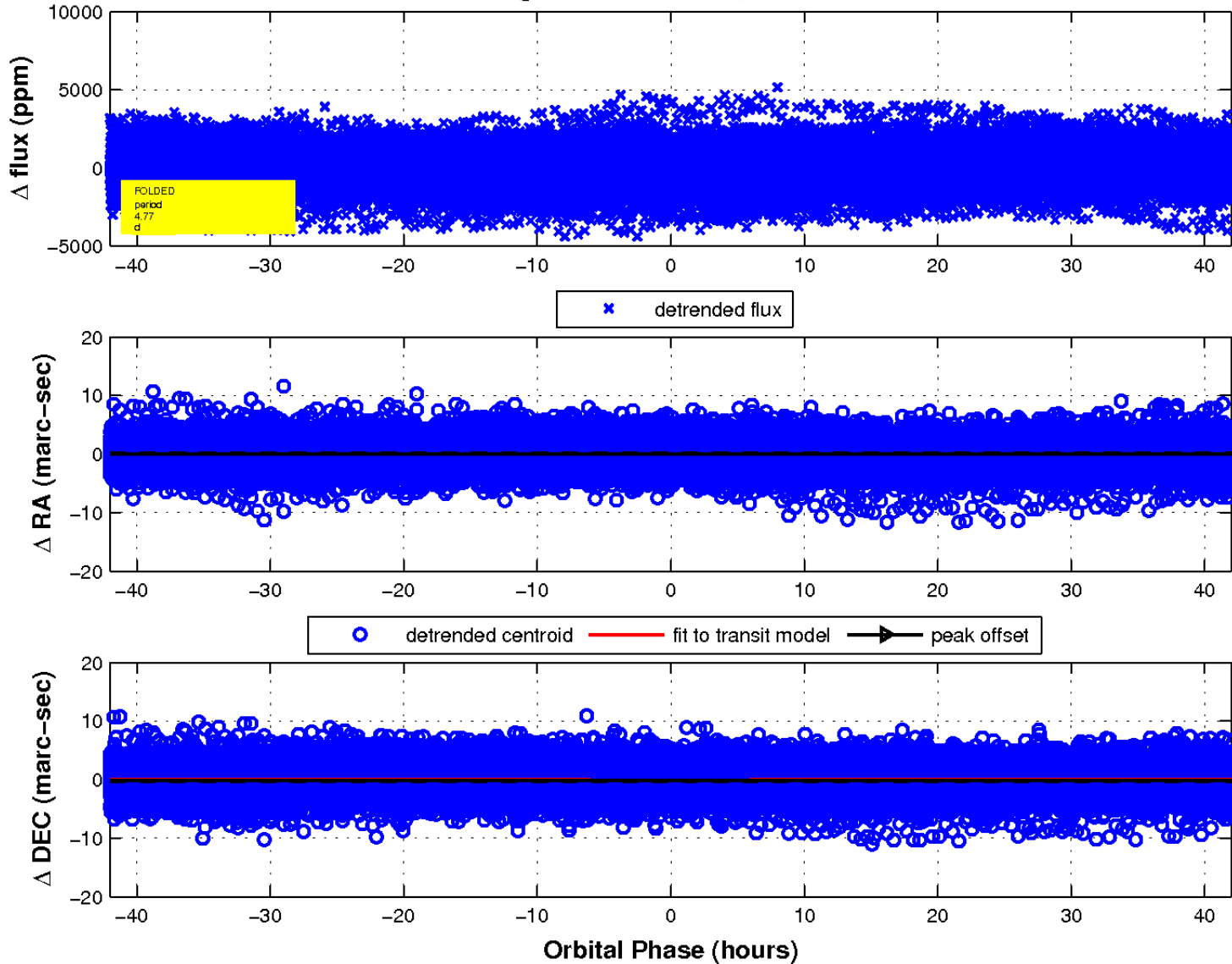
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white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

