

KIC 009001926

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})
009001926-01	OBS	No	0.556795	131.567444	15021.9	2.000	340.4	-1.0	1.68	7552	20.90	35284.33

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
009001926-01	OBS	FP	0.00	1	0	1	0	SWEET_NTL—LPP_DV—LPP_ALT—CENT_NOFITS—HALO_GHOST

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.

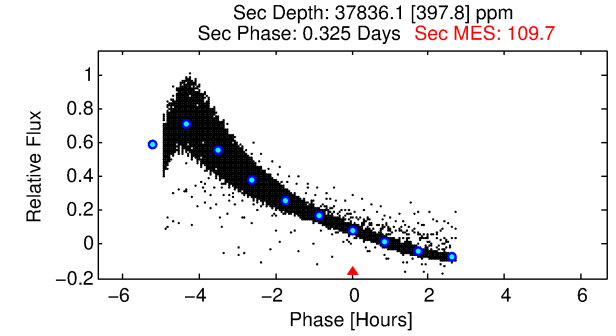
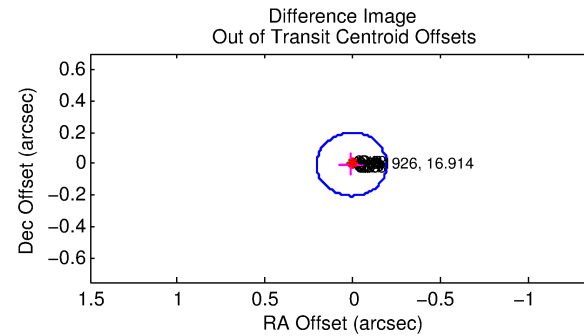
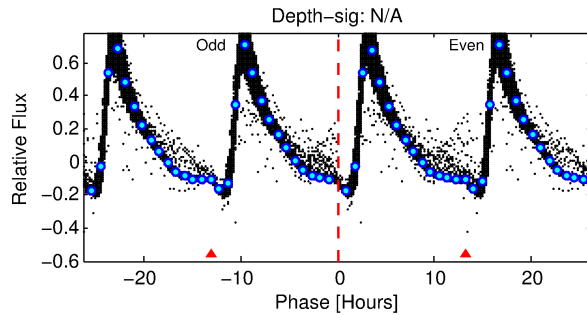
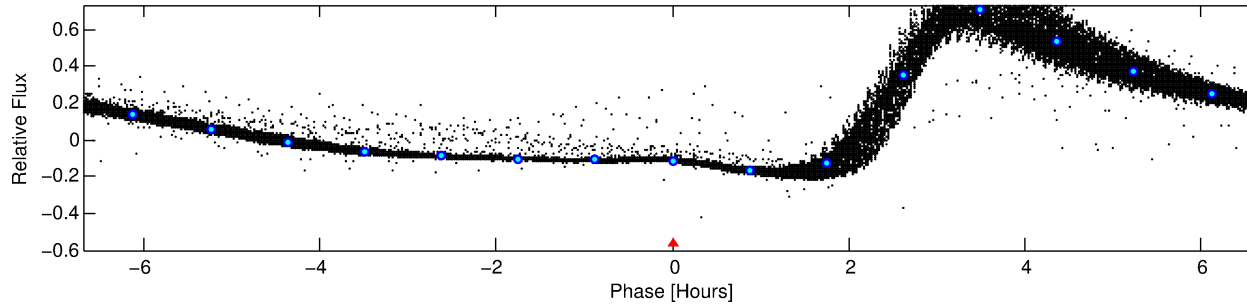
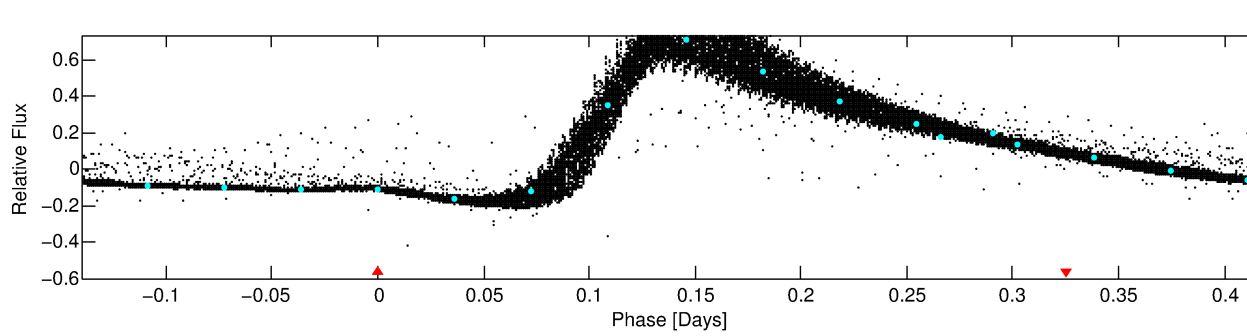
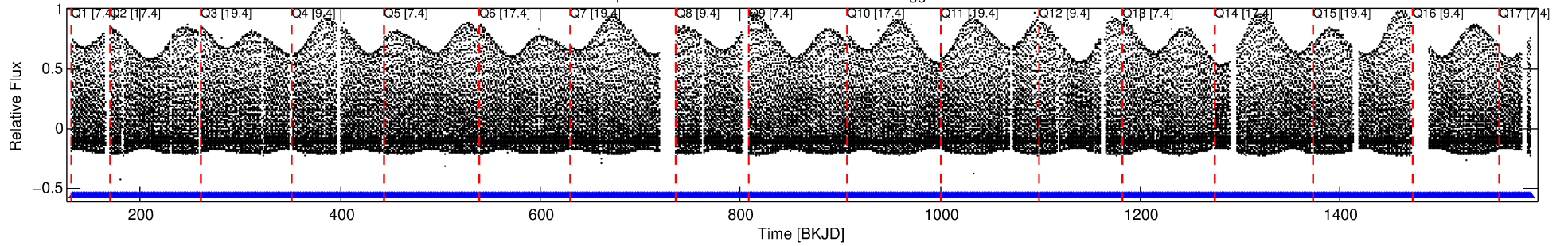
Ephemeris Match Information For 009001926-01

No Significant Match Found

DV One-Page Summary

KIC: 9001926 Candidate: 1 of 1 Period: 0.557 d

Kp: 16.91 R*: 1.68 Rs Teff: 7552.0 K Logg: 4.17 Fe/H: -0.140



TPS TCE Results:

Period = 0.55680 d
Epoch = 131.5674 BKJD

DV fit results are unavailable

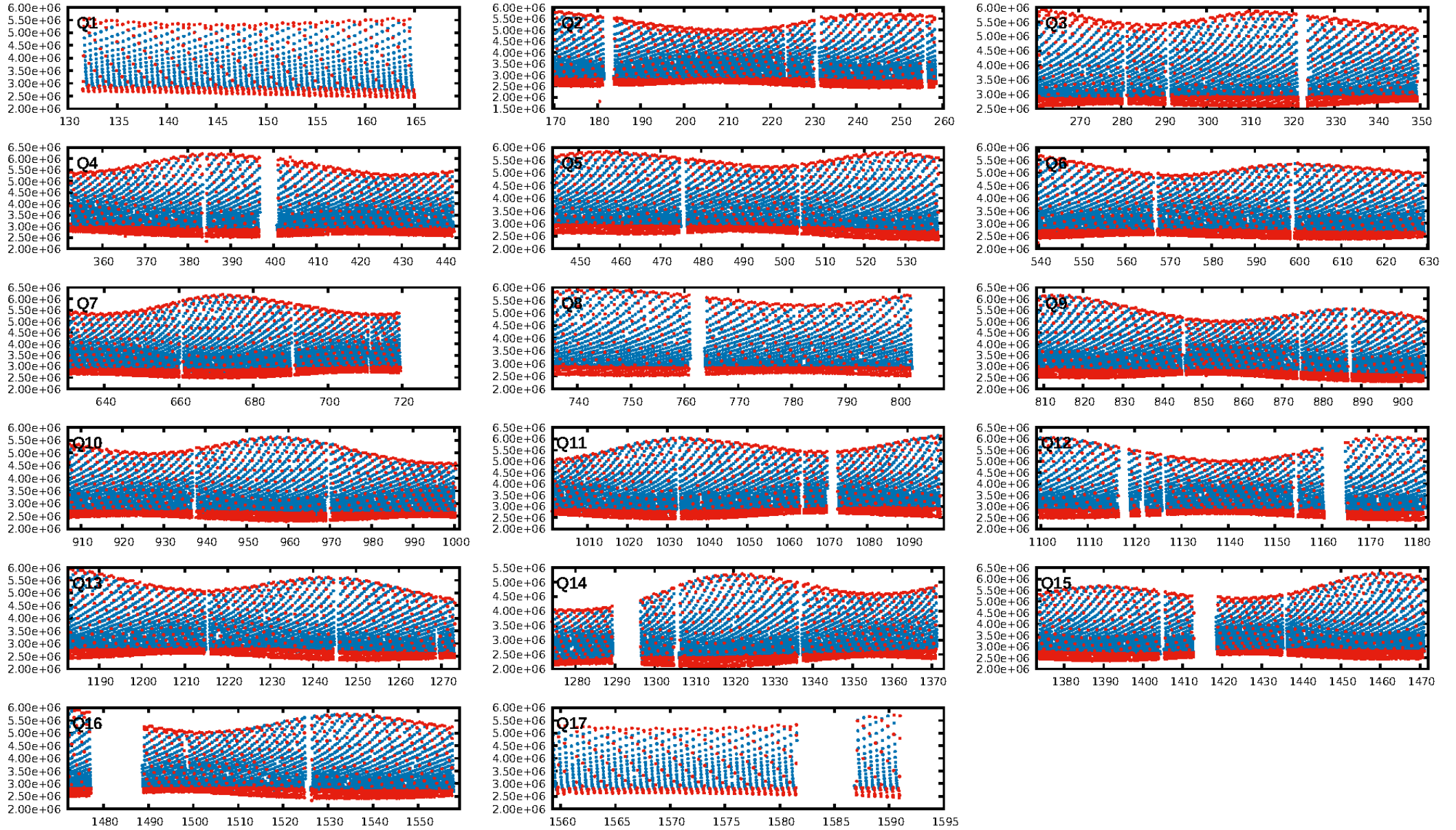
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 0.00e+00
RollingBand-fgt: 1.00 [2302/2302]
GhostDiagnostic-chr: 0.2423
Centroid-sig: 67.2%
Centroid-so: 0.504 arcsec [417.52σ]
OotOffset-rm: 0.009 arcsec [0.13σ]
KicOffset-rm: 0.489 arcsec [7.25σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

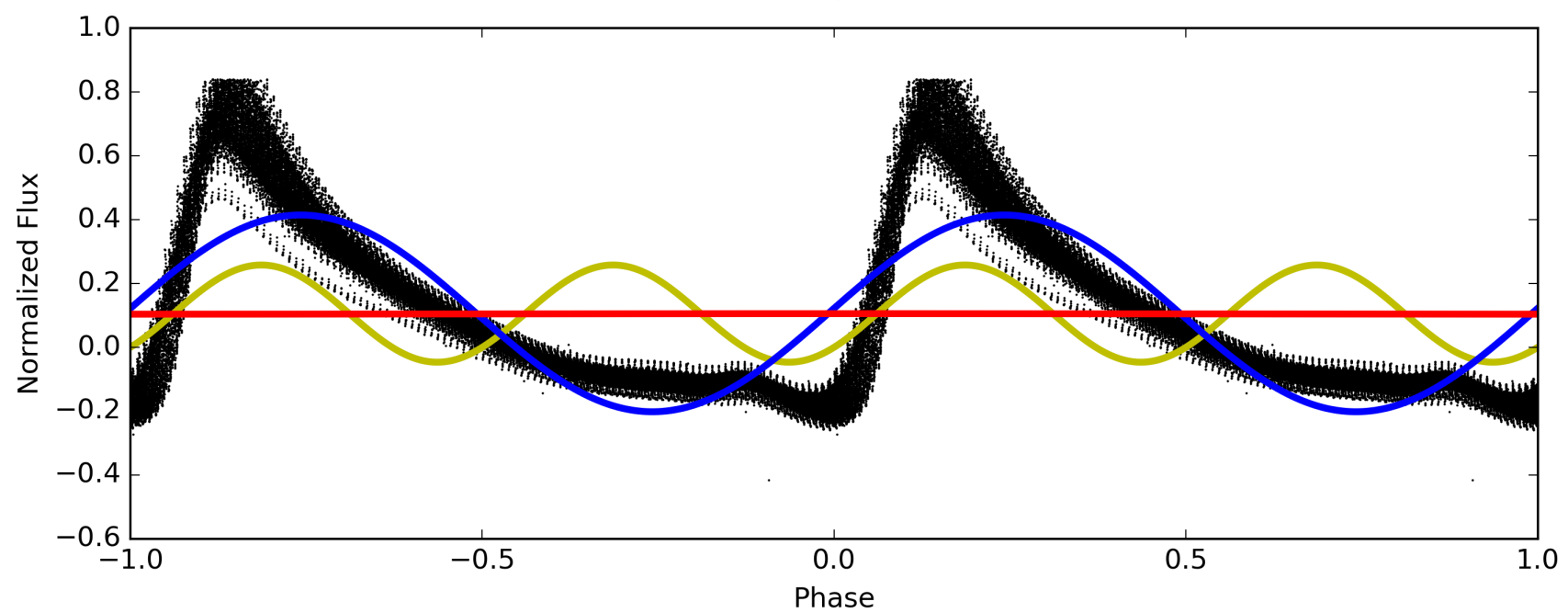
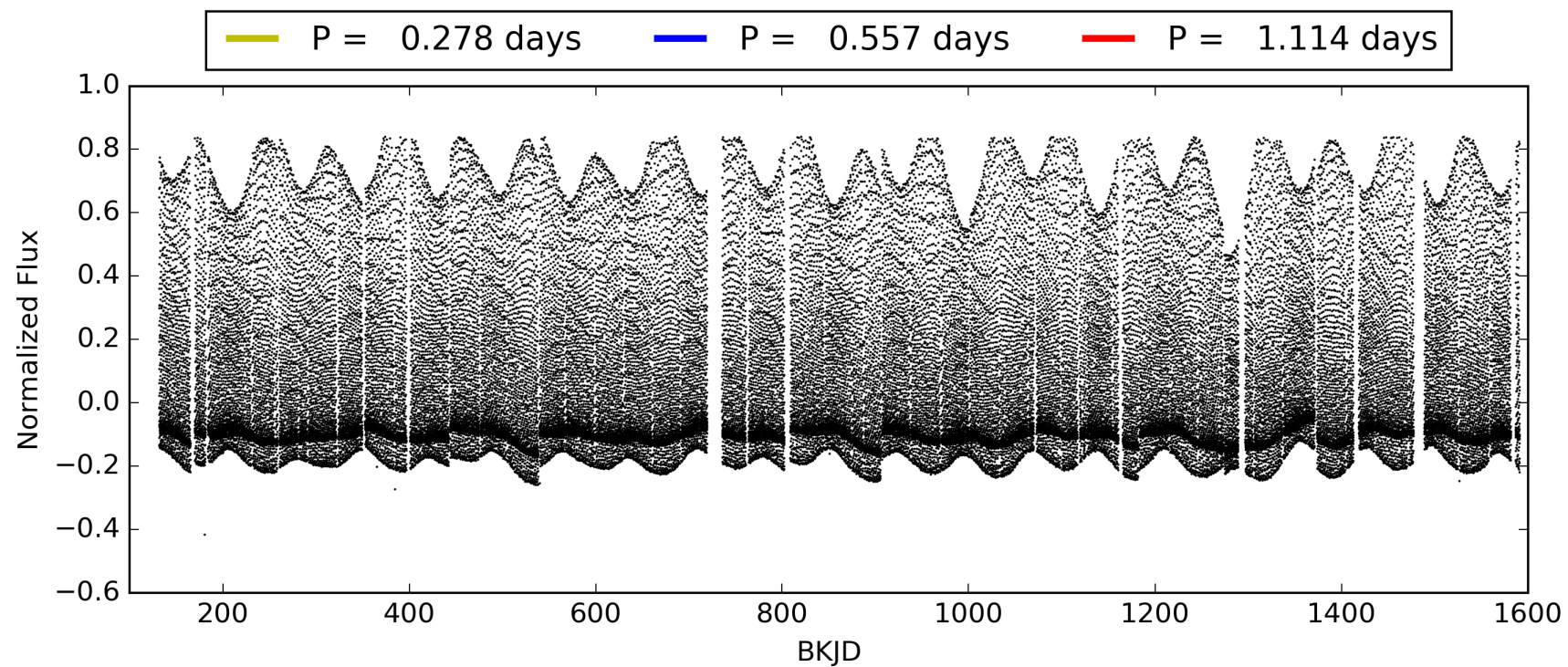
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 18:58:59 Z

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

TCE 009001926-01, PDC Light Curves

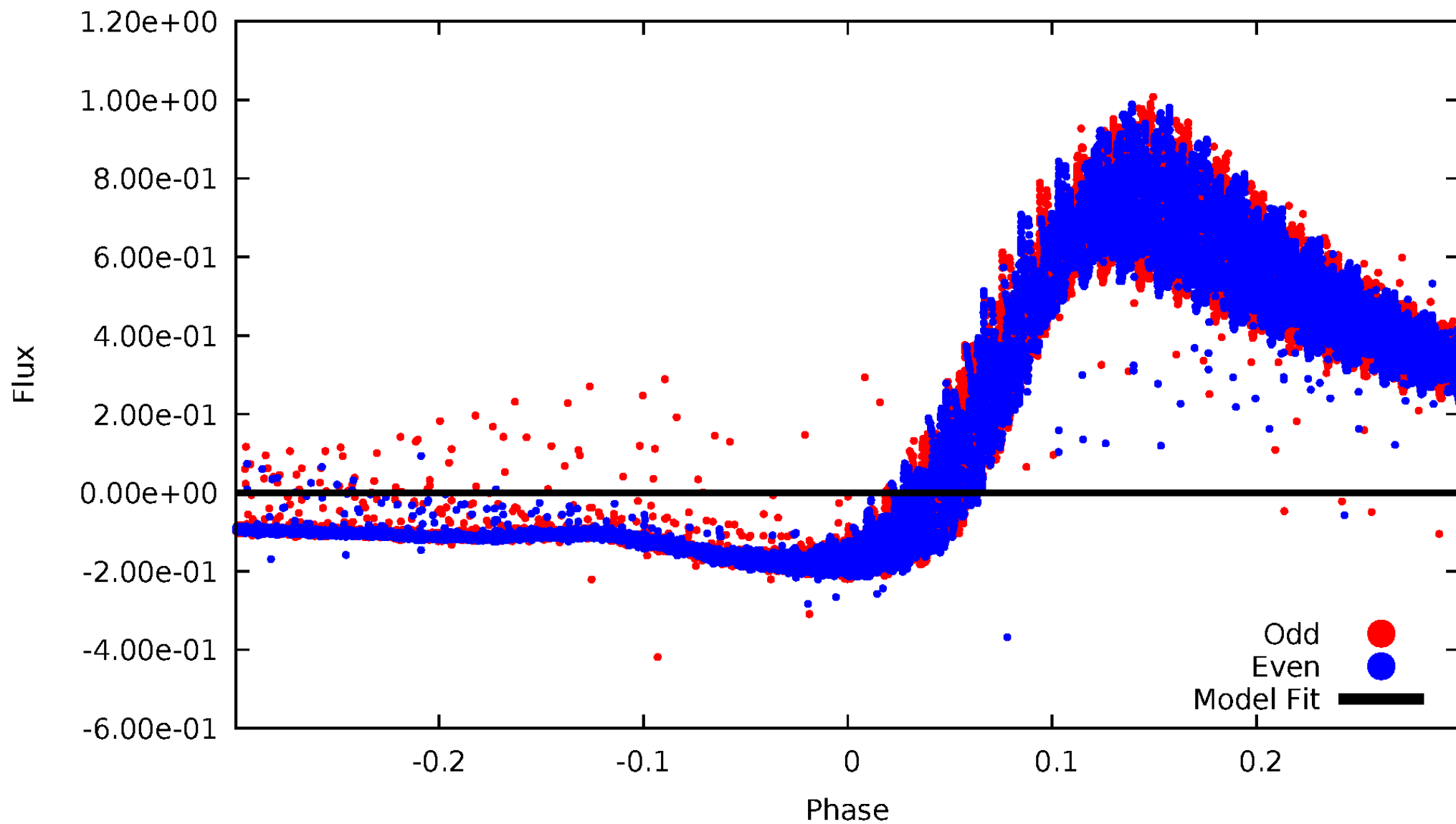


TCE 009001926-01



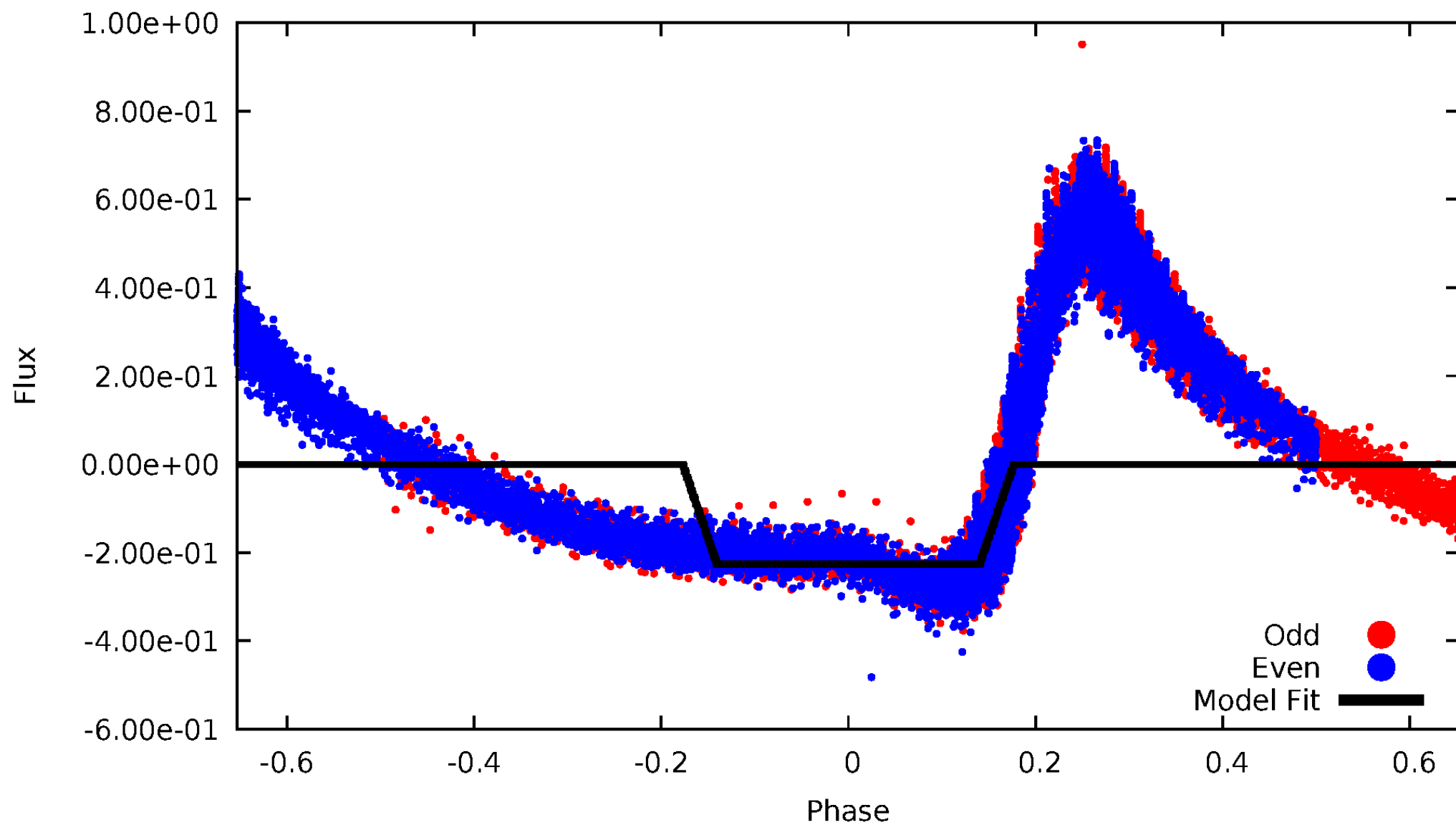
DV Odd/Even

TCE 009001926-01



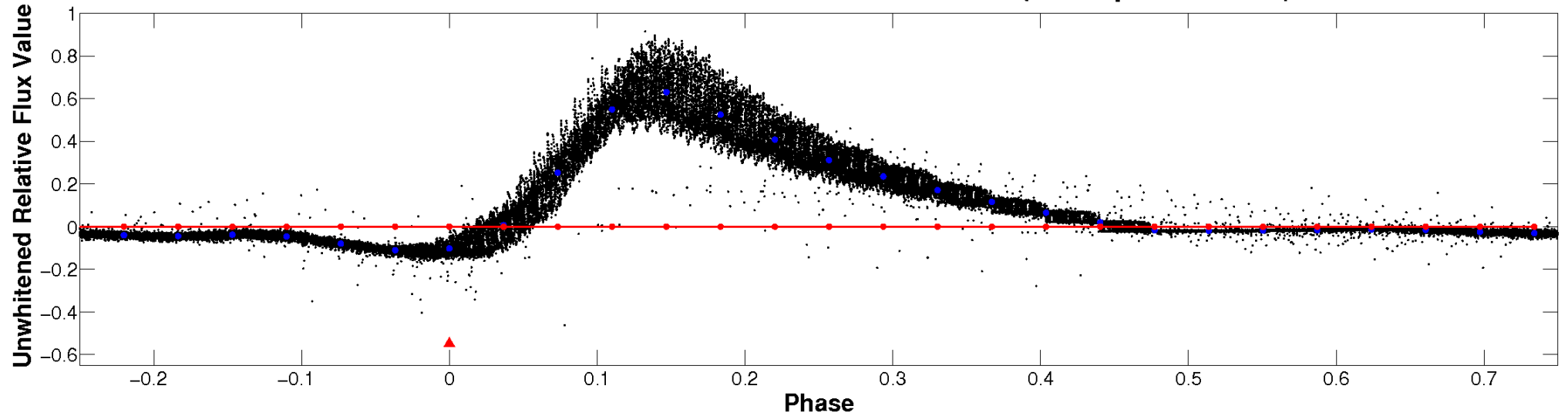
ALT Odd/Even

TCE 009001926-01

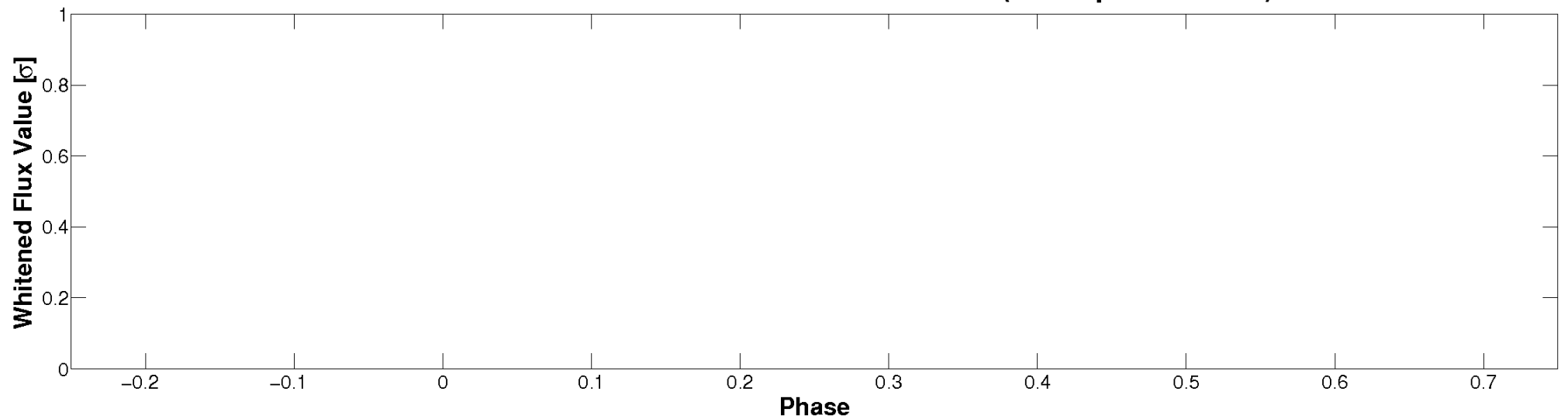


Non-Whitened Vs. Whitened Light Curve

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

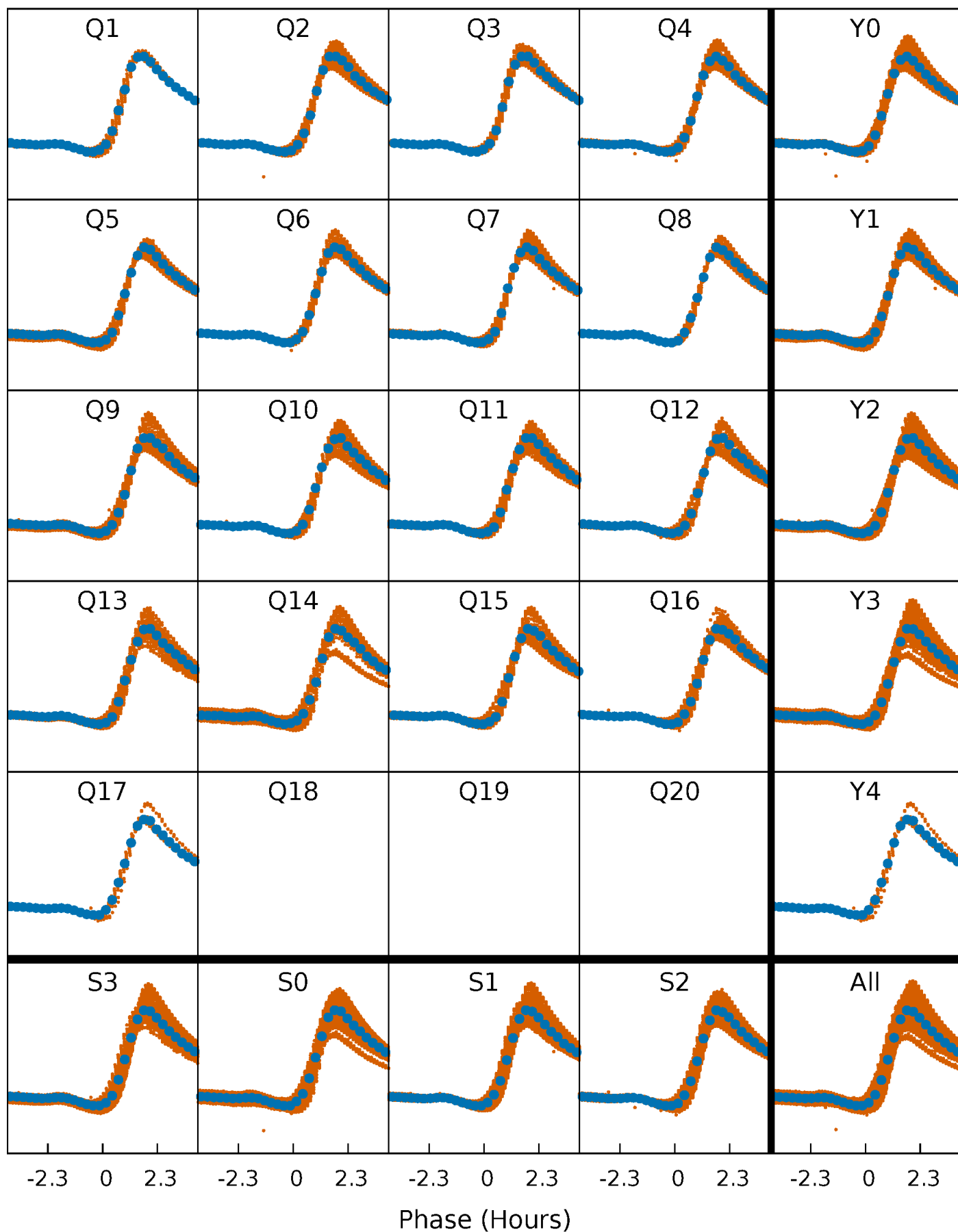


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



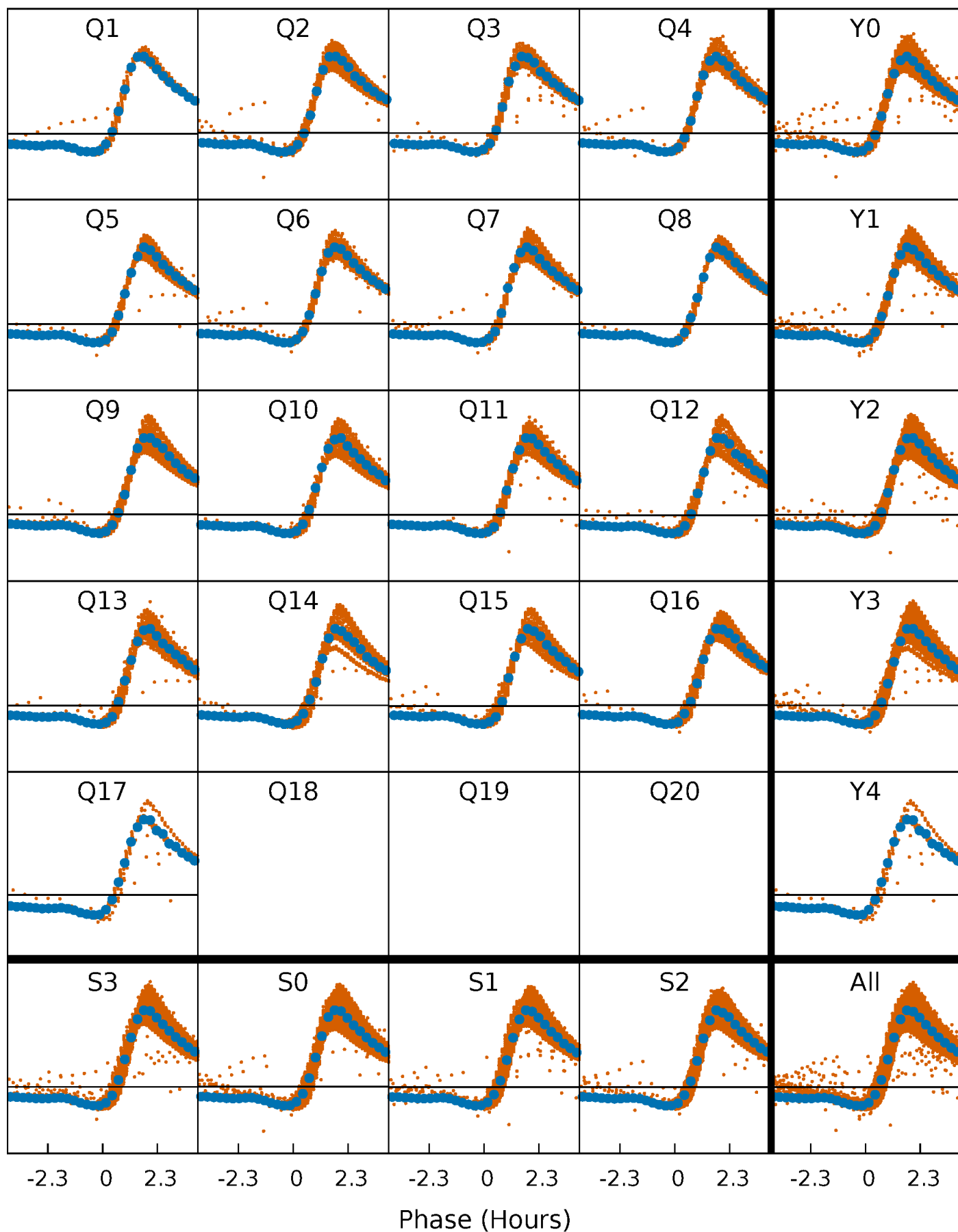
PDC Quarter-Phased Transit Curves

TCE 009001926-01 P= 0.556795 Days $T_0=131.567444$ (BKJD)



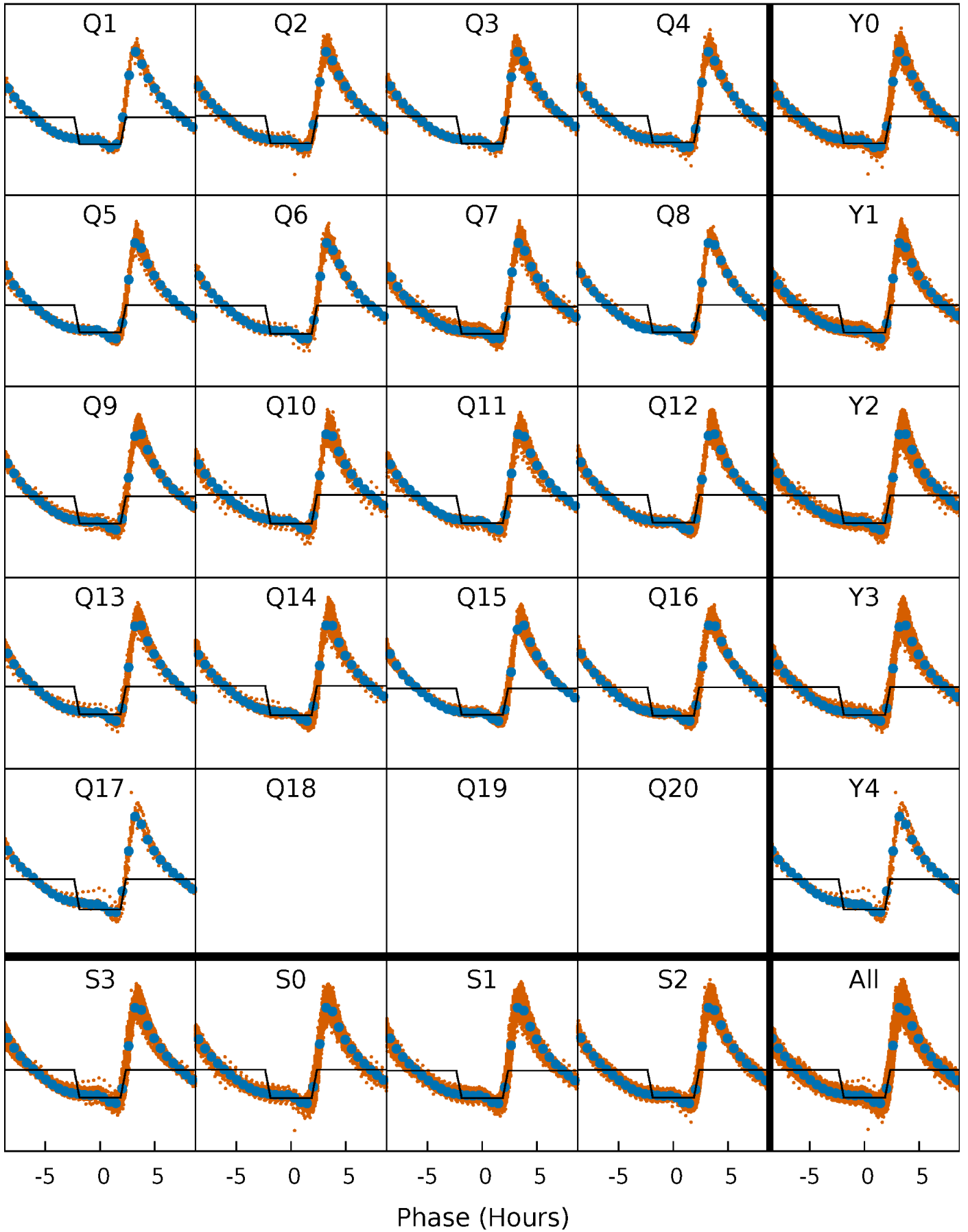
DV Quarter-Phased Transit Curves

TCE 009001926-01 P= 0.556795 Days $T_0=131.567444$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

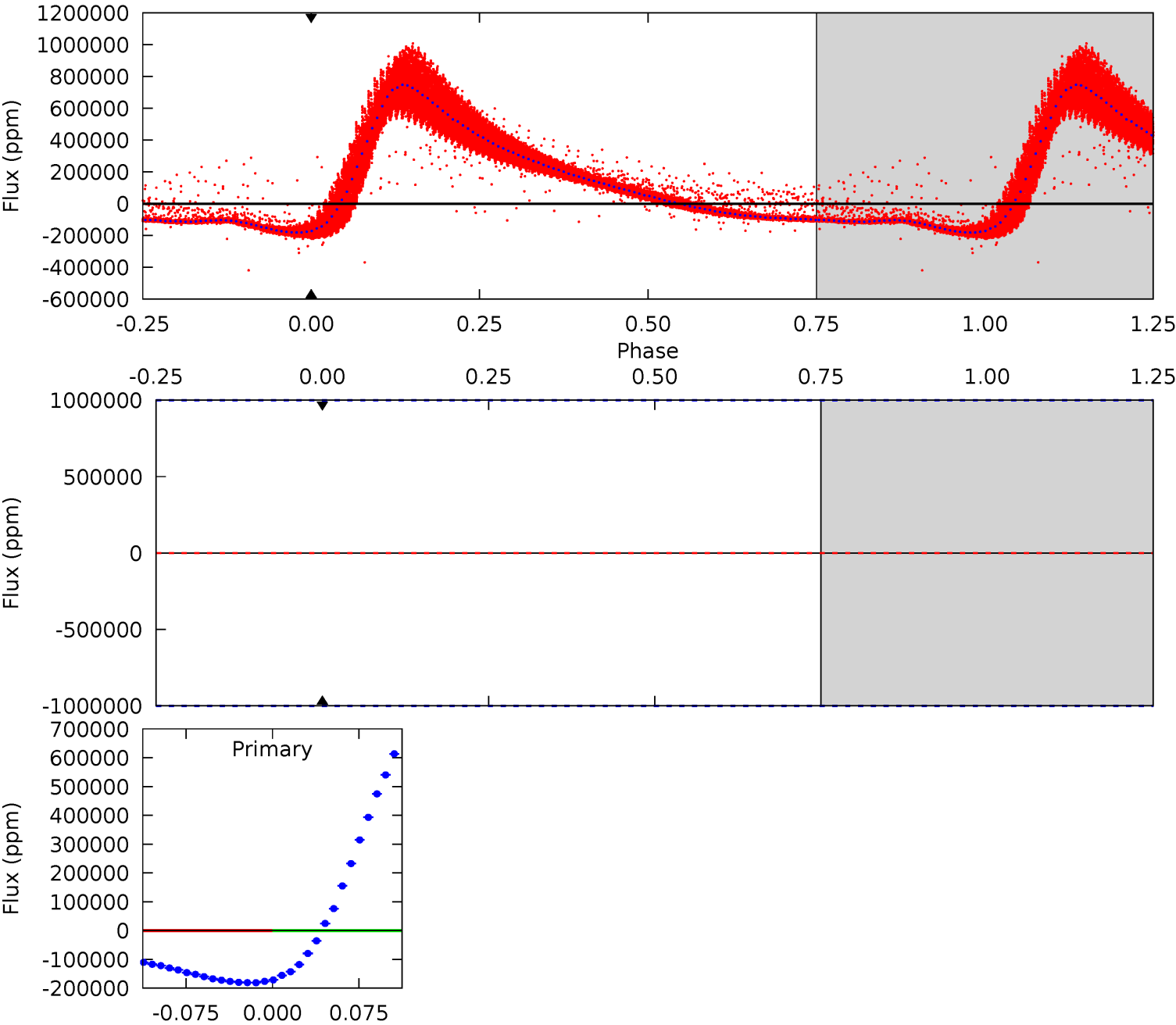
TCE 009001926-01 P= 0.556795 Days $T_0=132.058683$ (BKJD)



DV Model-Shift Uniqueness Test

009001926-01, P = 0.556795 Days, E = 131.010649 Days

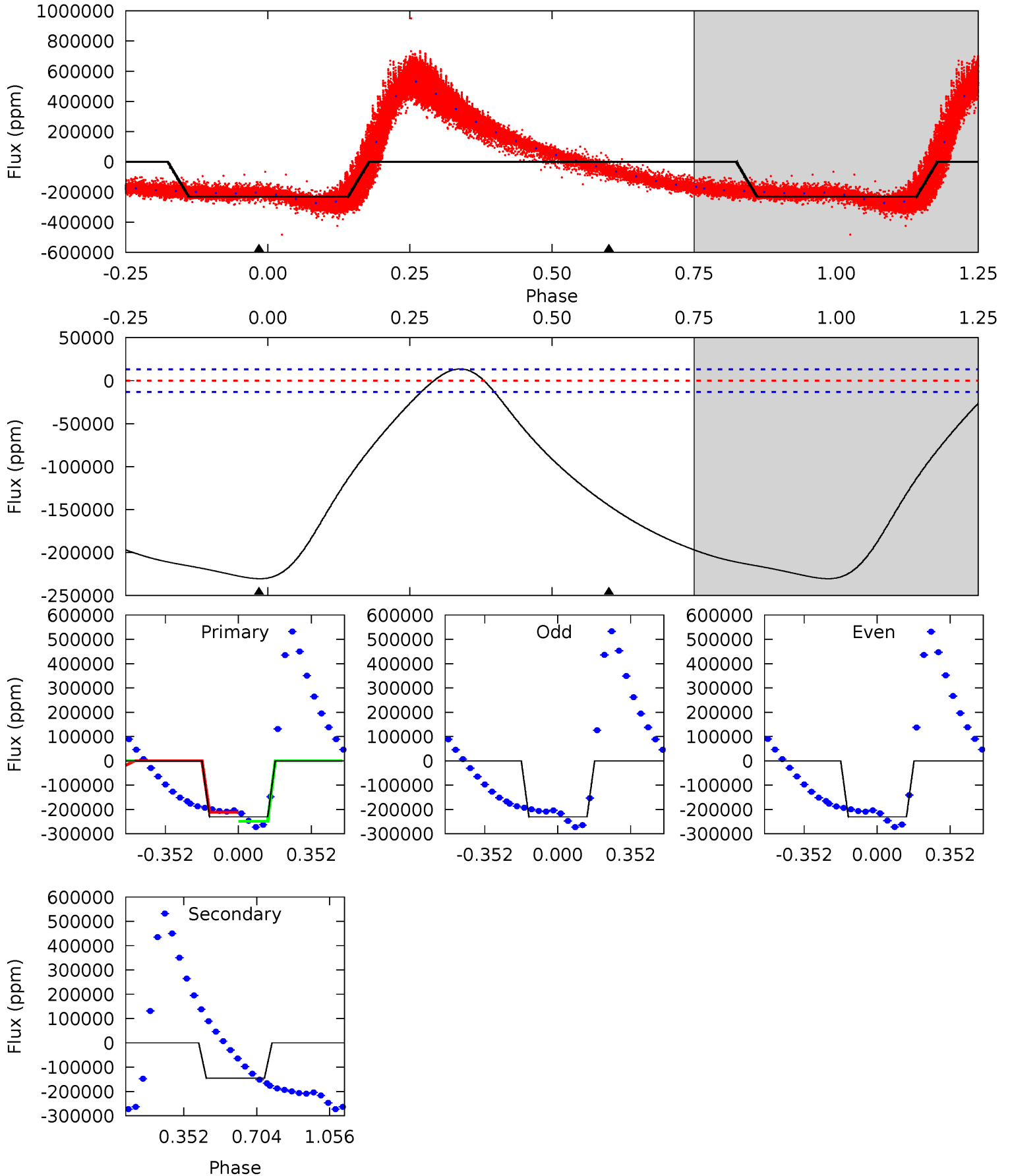
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

009001926-01, P = 0.556795 Days, E = 131.501888 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	47.1	0	0	4.29	0.93	4.63	74.7	74.7	47.1	47.1	0.01	1.00	0.06	7.18



Stellar Parameters For KIC 009001926

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7552^{+211}_{-316}	$4.172^{+0.120}_{-0.195}$	$-0.140^{+0.200}_{-0.350}$	$1.679^{+0.533}_{-0.328}$	$1.526^{+0.233}_{-0.233}$	$0.454^{+0.272}_{-0.227}$
	+3%/-4%	+3%/-5%	+143%/-250%	+32%/-20%	+15%/-15%	+60%/-50%
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 009001926-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$24.32^{+17.93}_{-14.38}$	4912^{+398}_{-296}	-3769^{+21678}_{-12861}	$0.150^{+33.880}_{-28.284}$
Alt.	-145208 ± 3084	$89.49^{+25.25}_{-21.23}$	4942^{+440}_{-332}	6746^{+1039}_{-821}	$2.679^{+1.807}_{-0.998}$

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 $A_{obs} \gg 1.0$

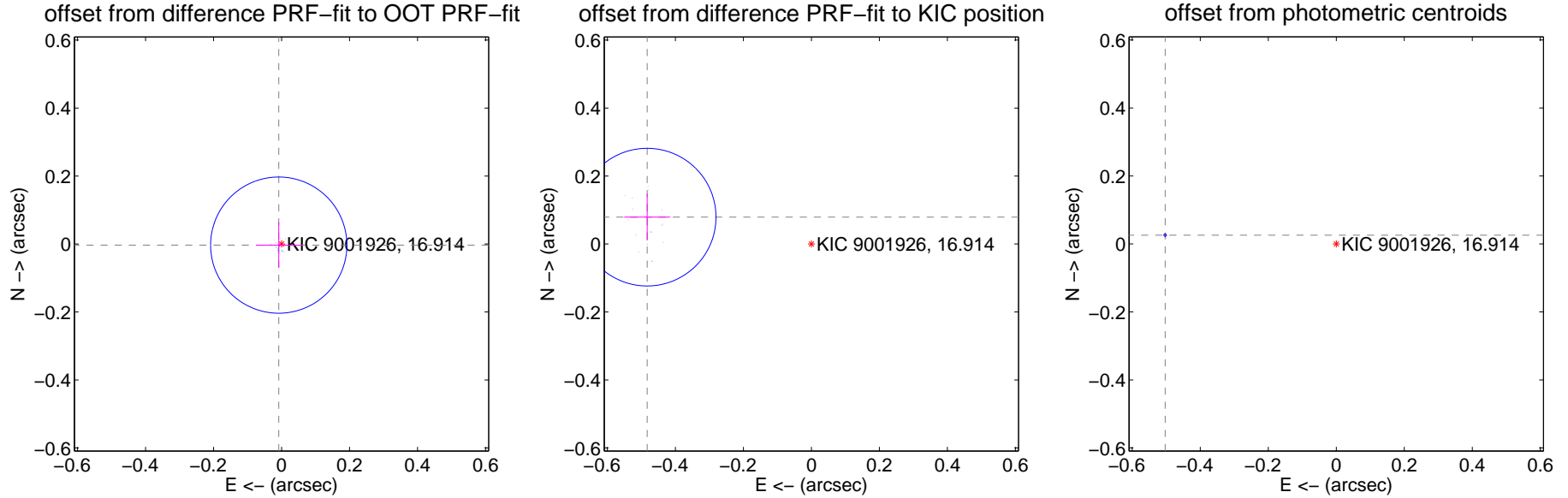
DV Centroid Data

Supplemental centroid analysis for 009001926-01. Kepler magnitude: 16.91. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

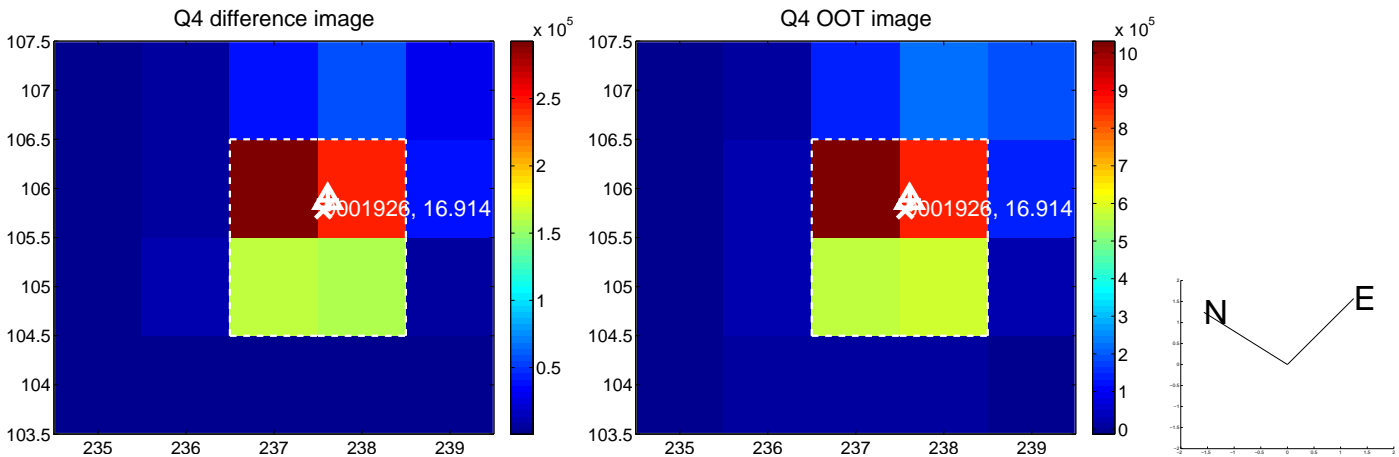
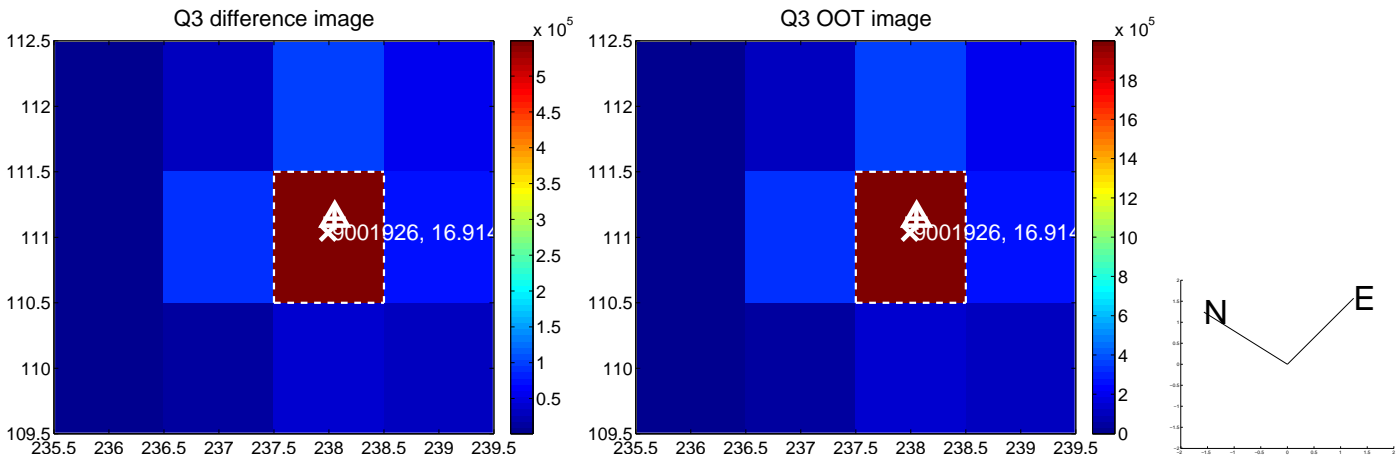
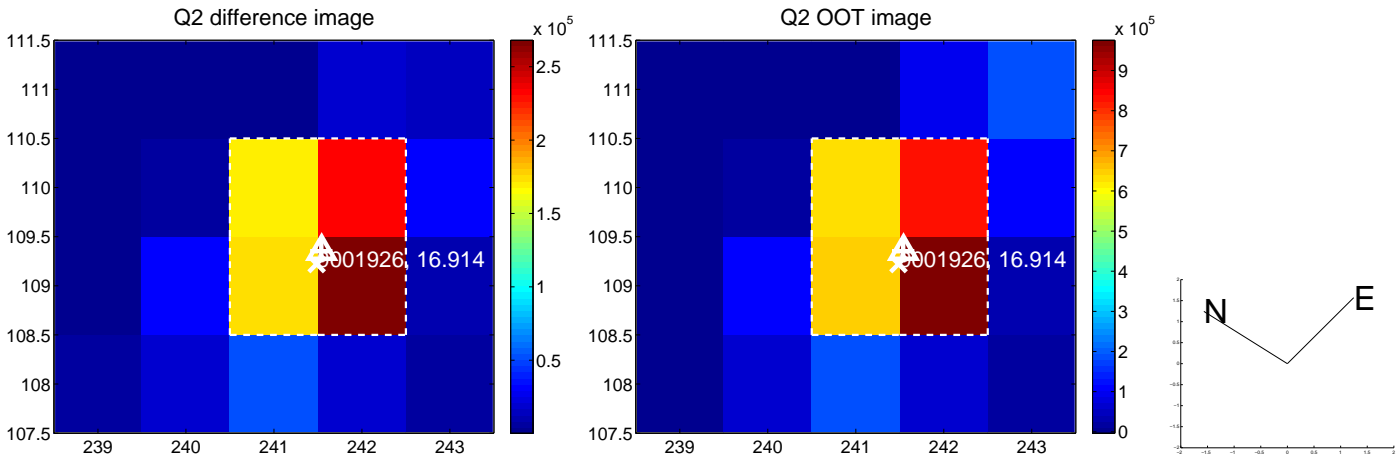
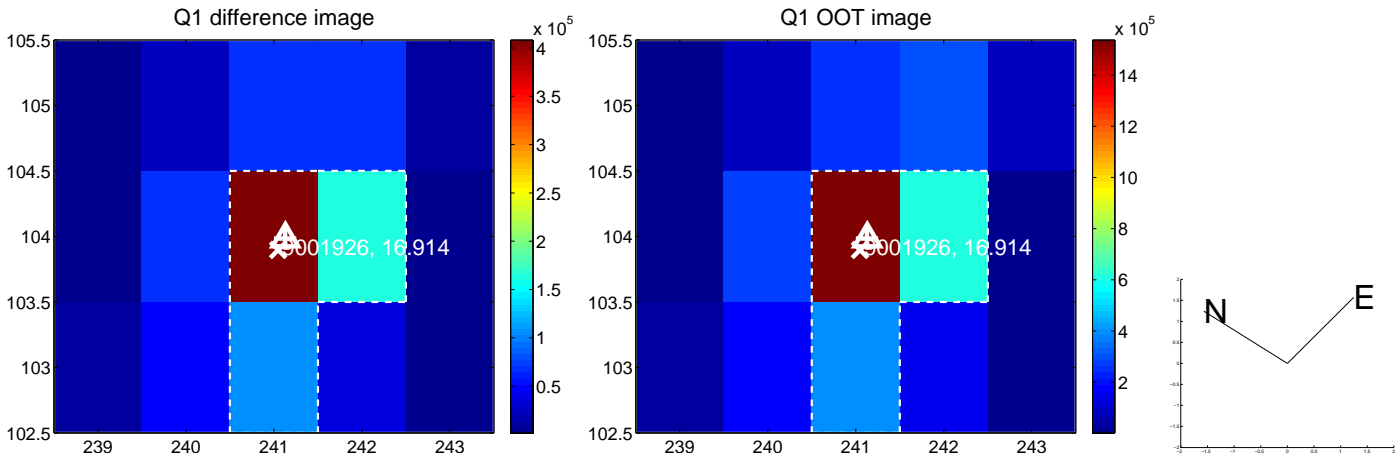
The direct PRF centroid is offset from the target star catalog position by about 0.46 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.009 ± 0.067	0.13	0.008 ± 0.067	-0.003 ± 0.067
PRF-fit source offset from KIC position	0.489 ± 0.067	7.25	0.483 ± 0.067	0.079 ± 0.069
photometric centroid source offset	0.50 ± 0.00	417.52	0.50 ± 0.00	0.03 ± 0.00

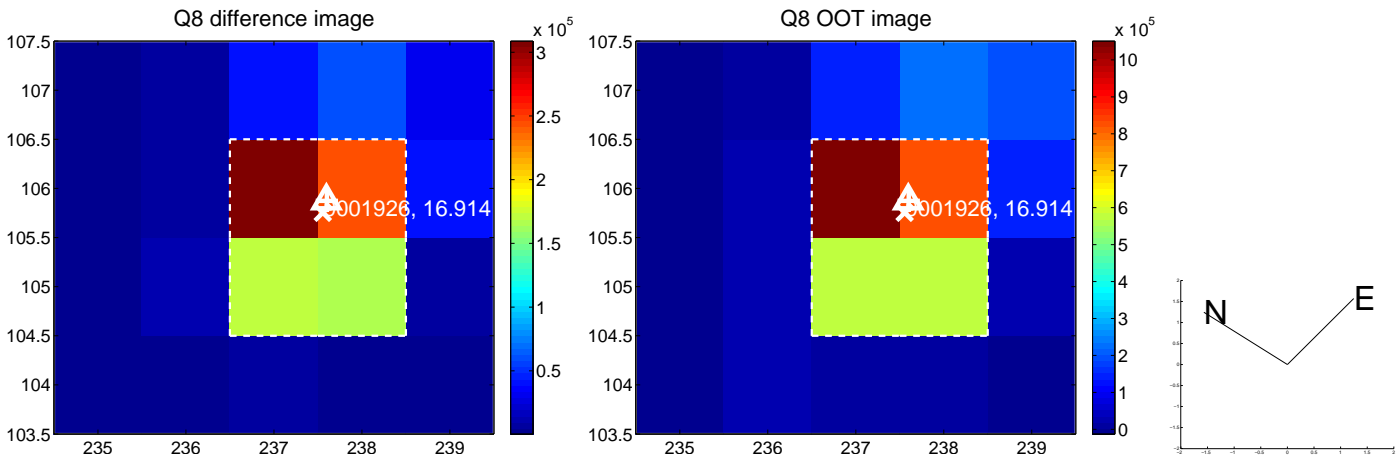
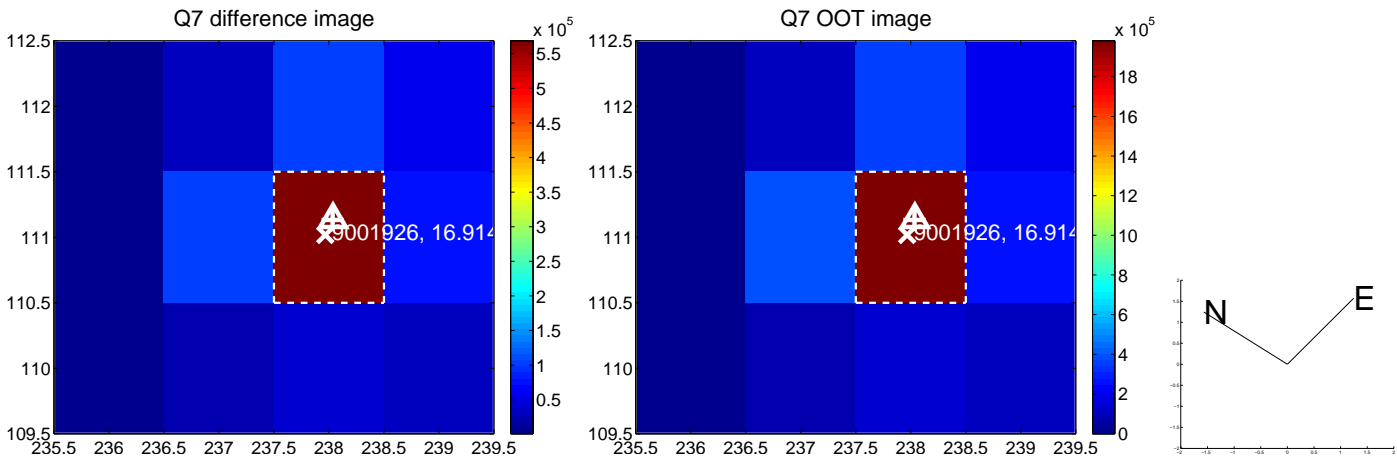
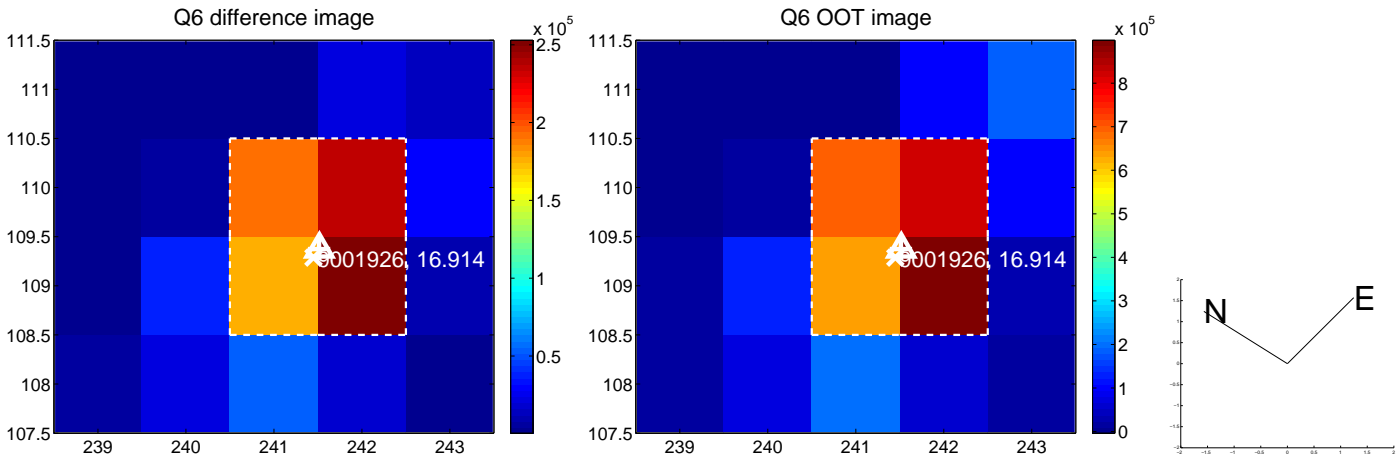
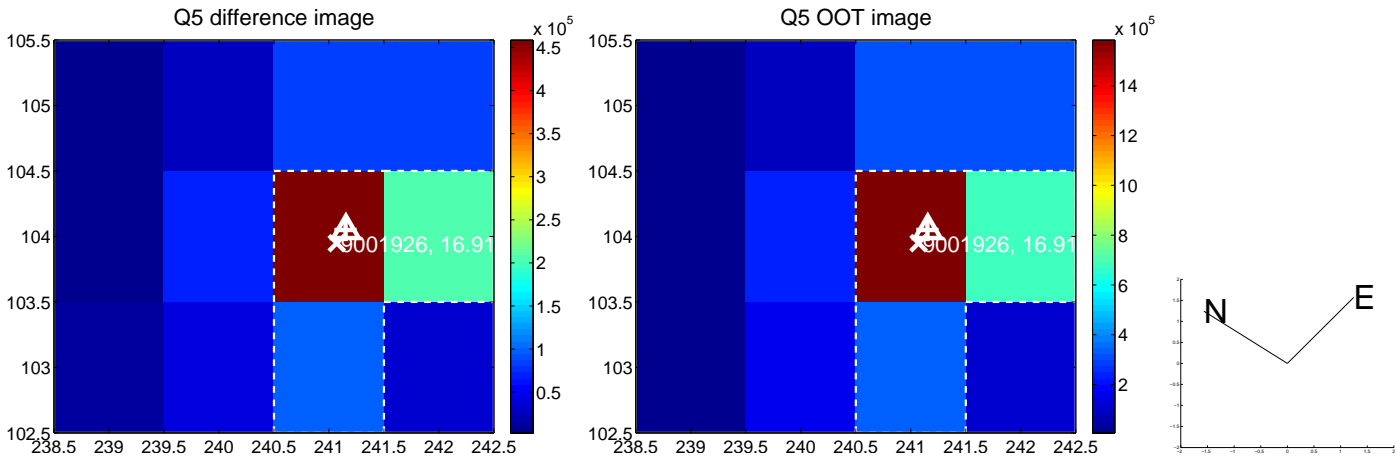


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

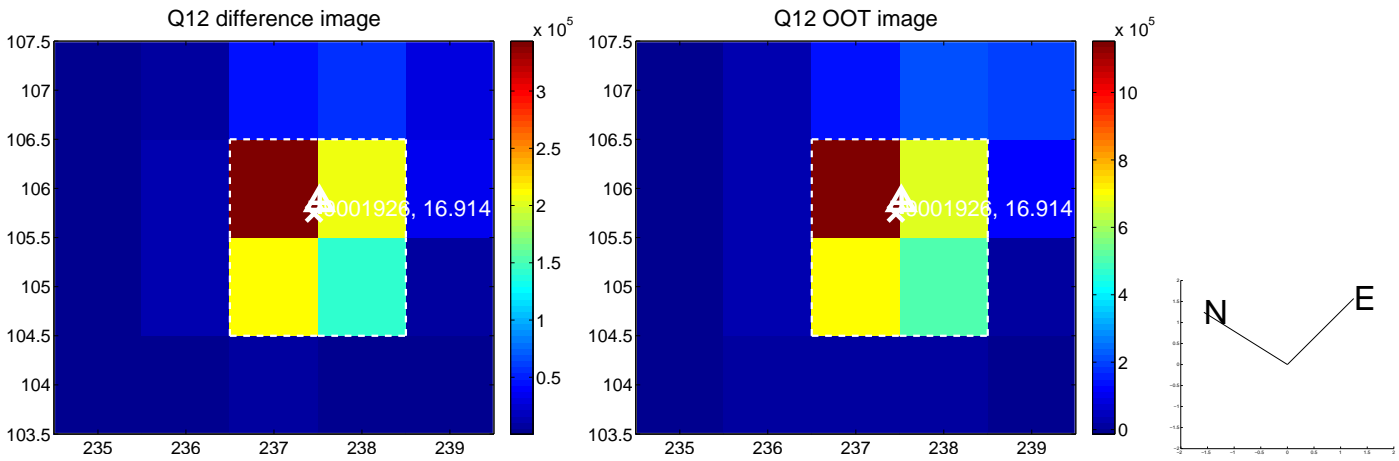
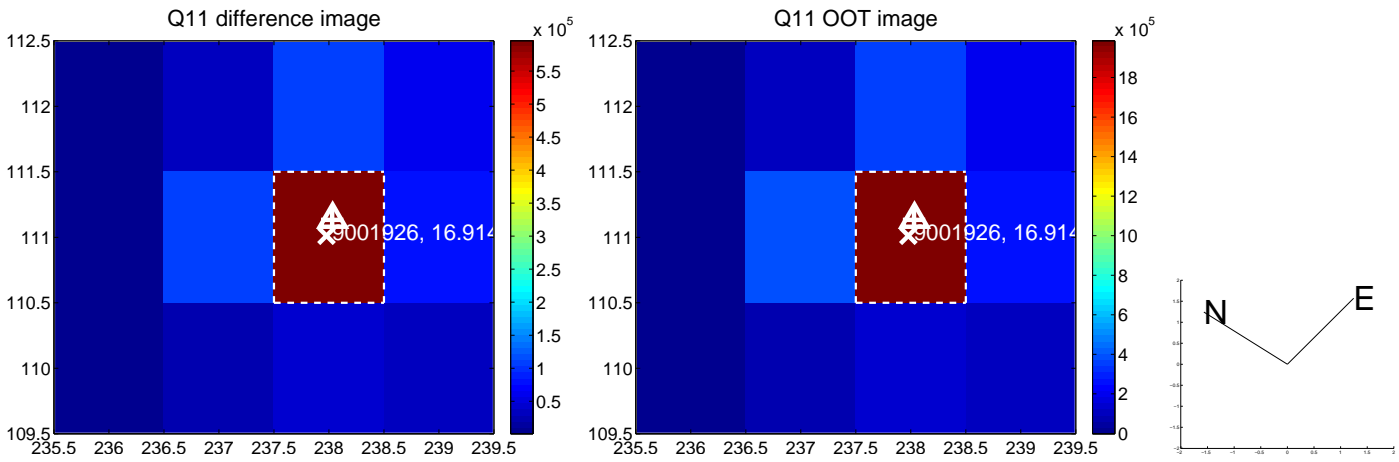
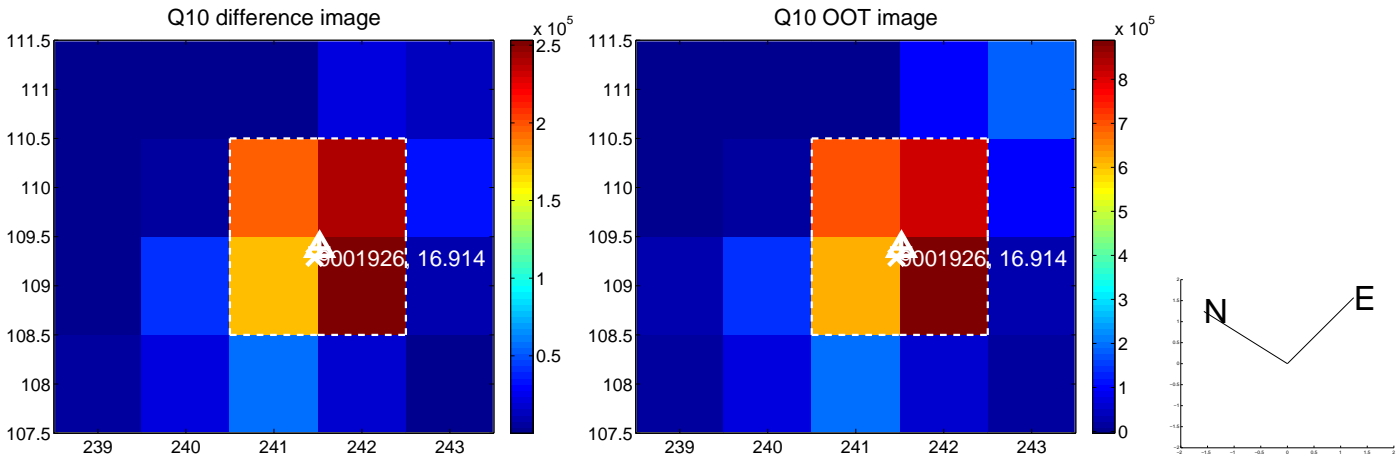
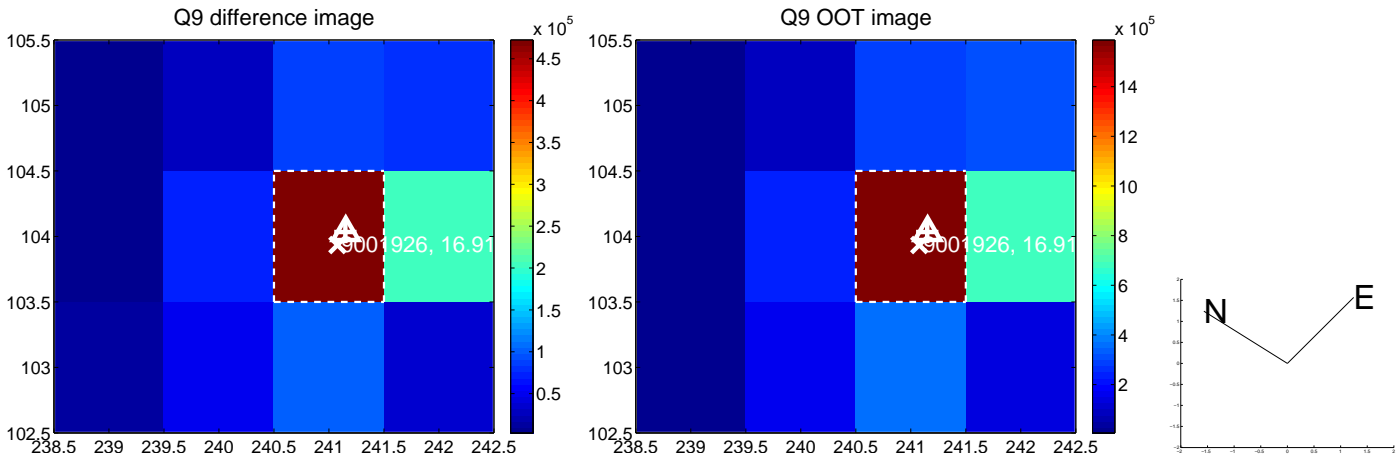
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



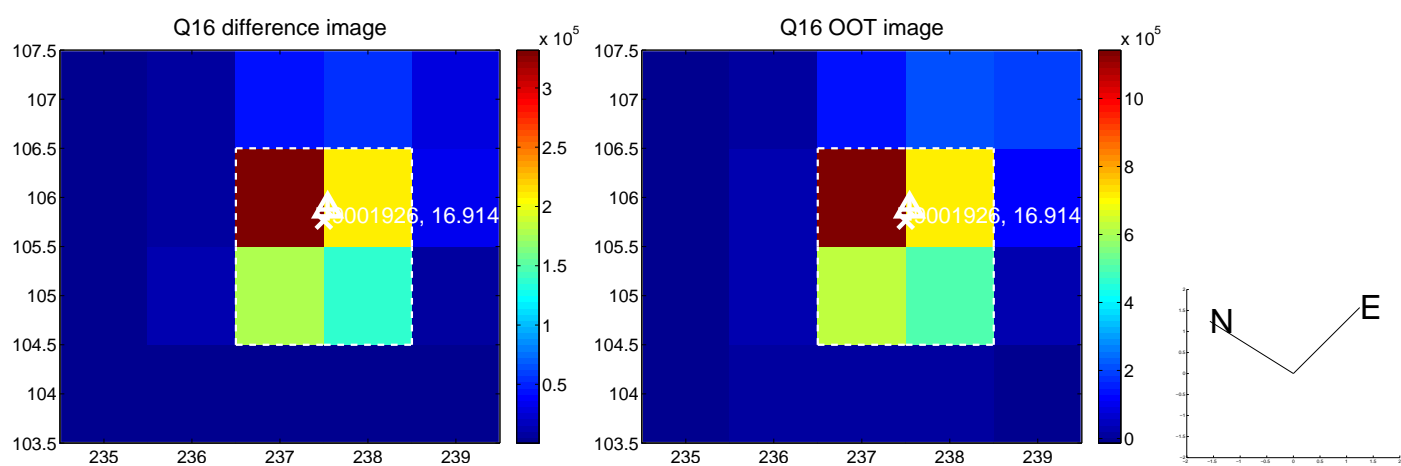
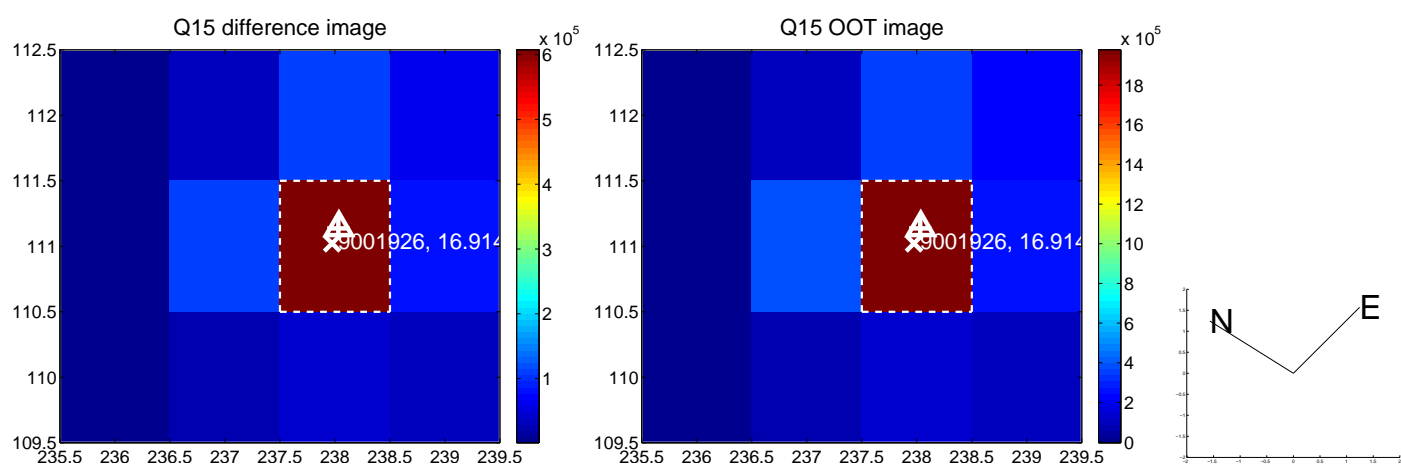
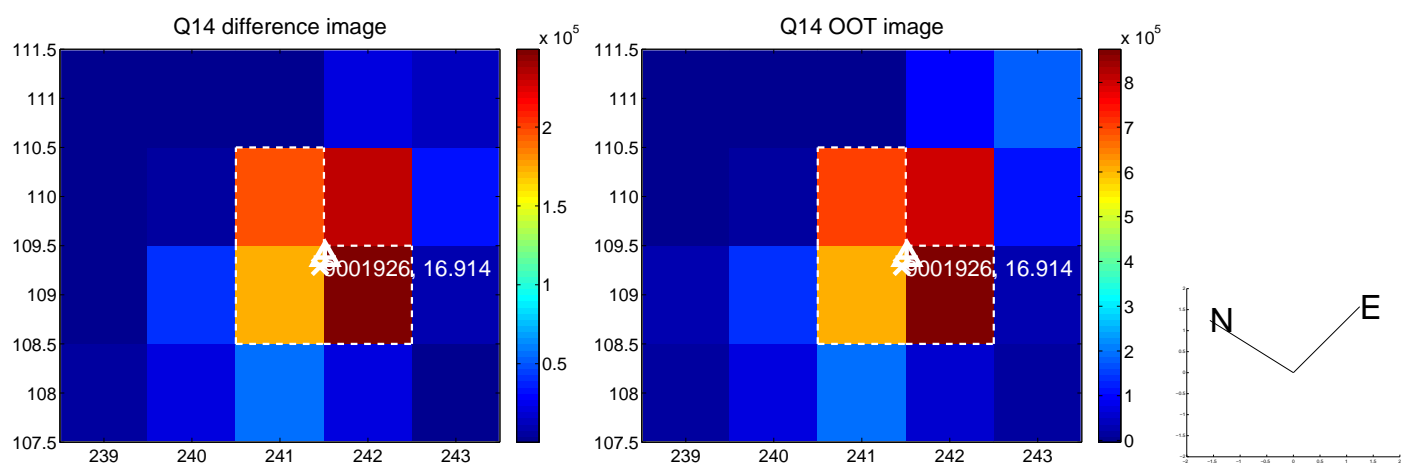
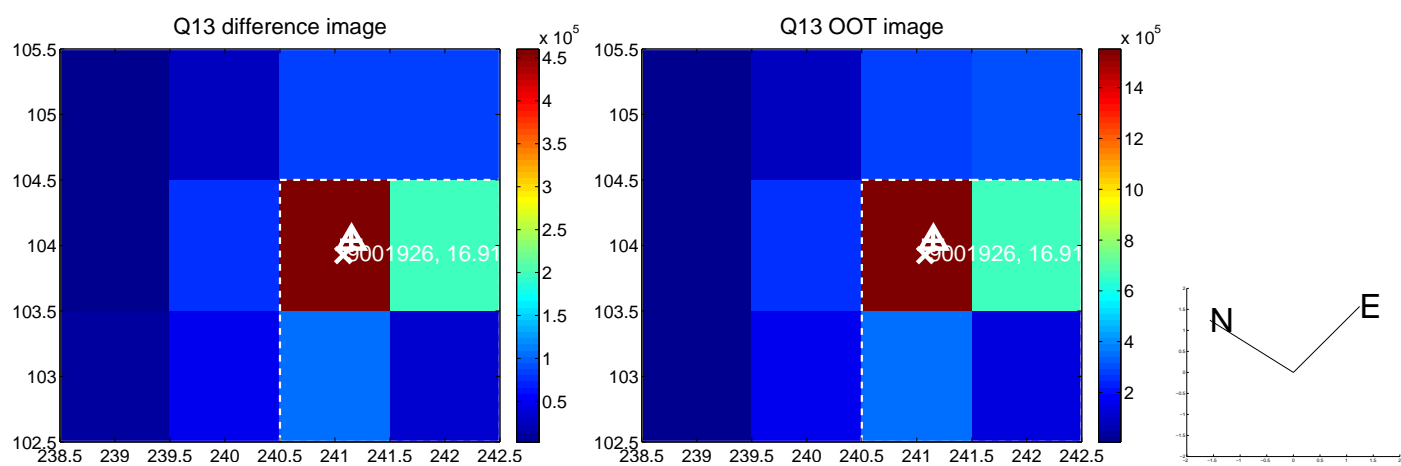
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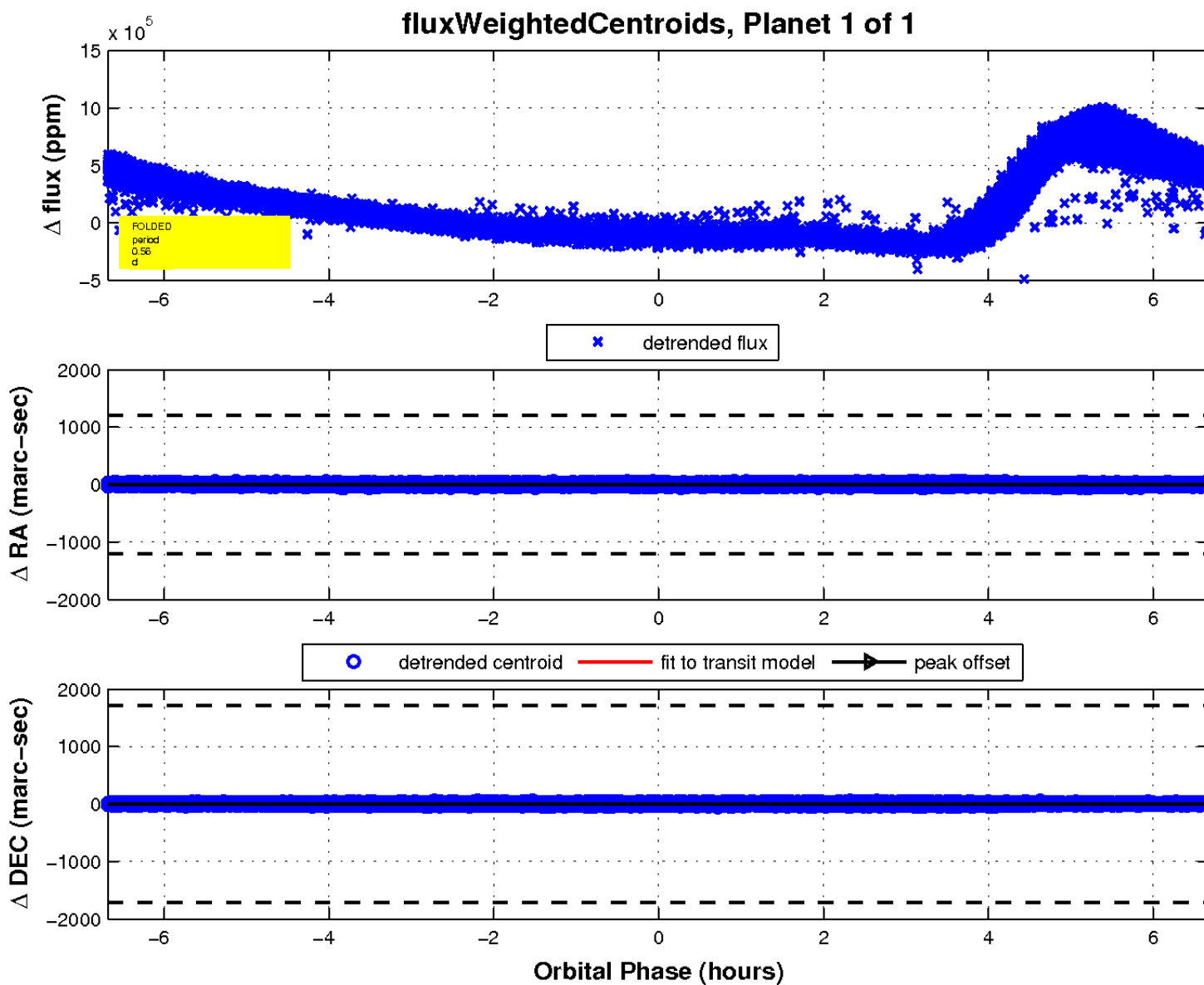
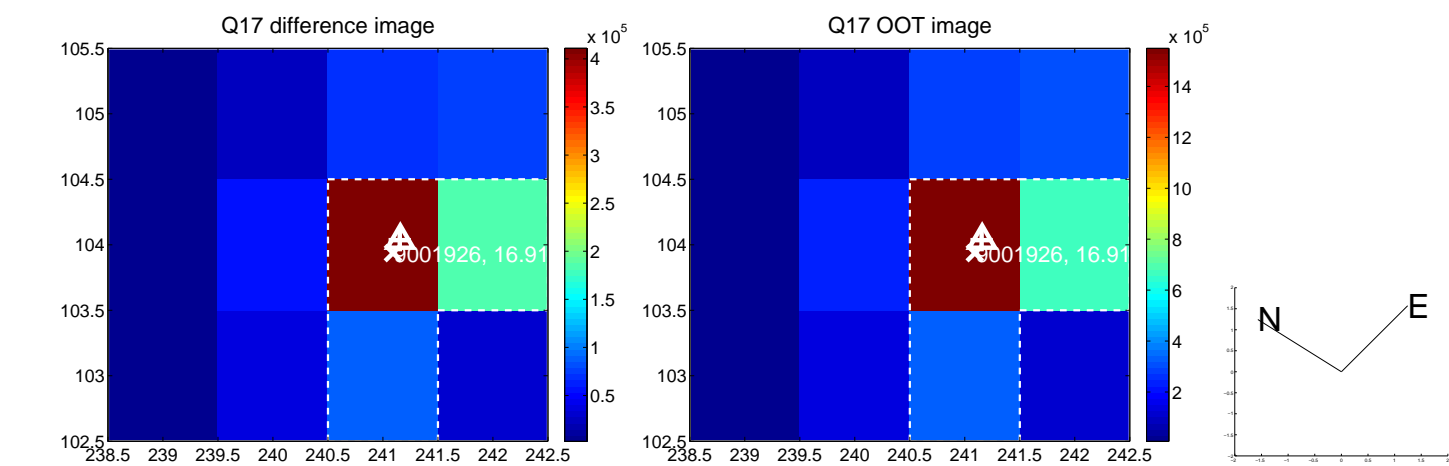
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UKIRT Image

Declination

