

KIC 006695889

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})
006695889-01	OBS	6757.01	1.106556	132.377367	232521.6	2.532	6061.7	2661.0	0.87	6205	53.85	2387.30

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006695889-01	OBS	FP	0.00	0	1	0	0	SWEET_EB—MOD_SEC_DV—MOD_SEC_ALT—DEEP_V_SHAPED

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.

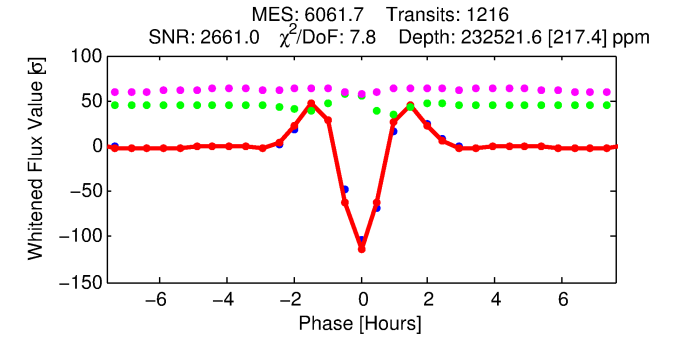
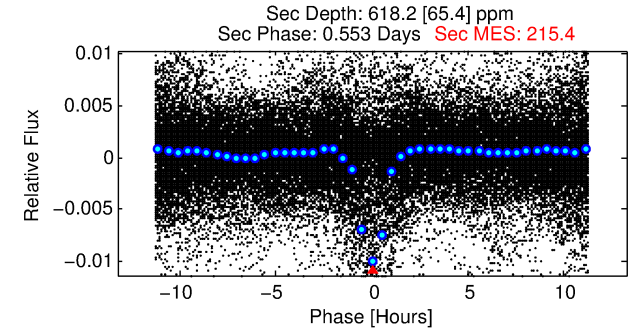
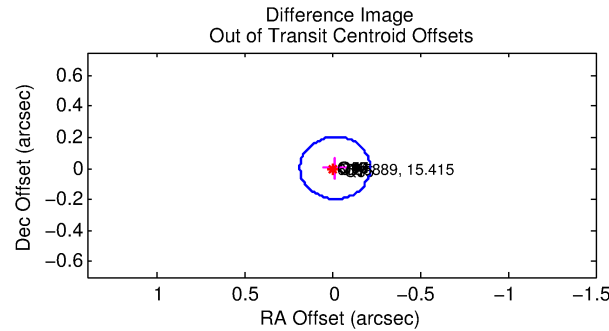
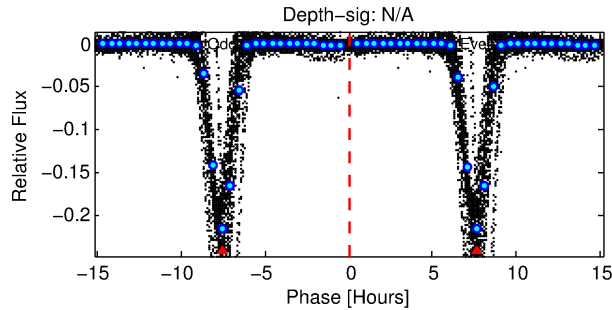
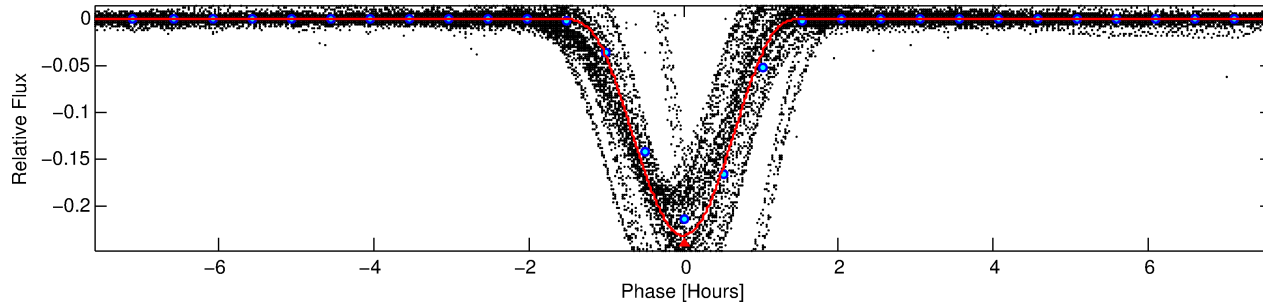
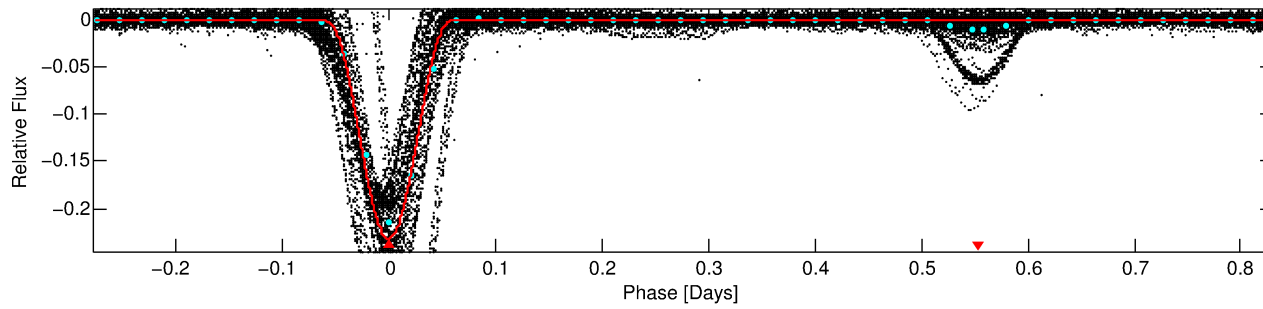
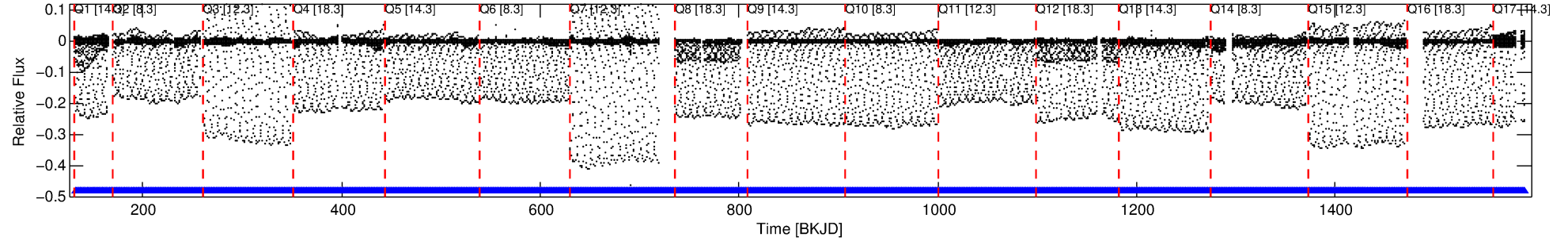
Ephemeris Match Information For 006695889-01

No Significant Match Found

DV One-Page Summary

KIC: 6695889 Candidate: 1 of 1 Period: 1.107 d
KOI: K06757.01 Corr: 0.976

Kp: 15.41 R*: 0.87 Rs Teff: 6205.0 K Logg: 4.53 Fe/H: -0.540



DV Fit Results:

Period = 1.10656 [0.00000] d
Epoch = 132.3774 [0.0000] BKJD
Rp/R* = 0.5653 [0.0819]
a/R* = 4.75 [0.10]
b = 0.73 [0.13]
Seff = 2387.30 [942.46]
Teq = 1782 [176] K
Rp = 53.85 [17.61] Re
a = 0.0206 [0.0052] AU
Ag = 0.05 [0.02] [-39.72σ]
Teffp = 1301 [110] K [-2.32σ]

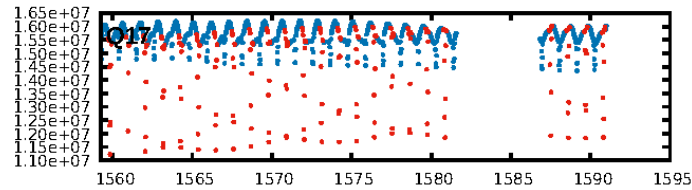
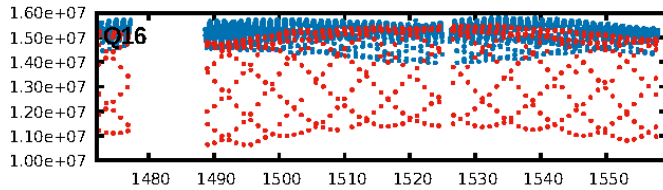
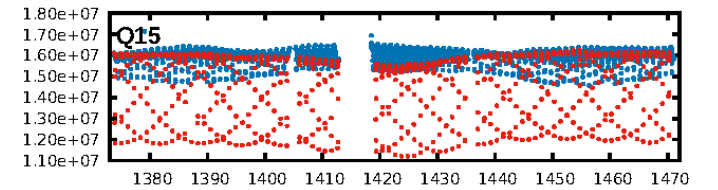
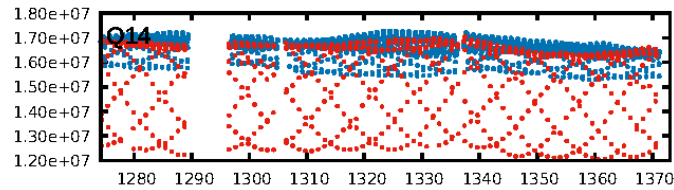
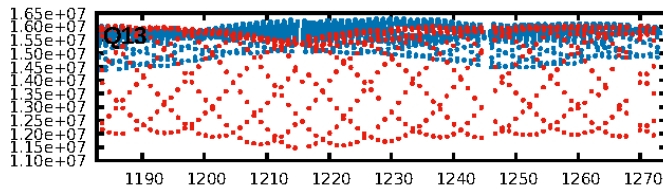
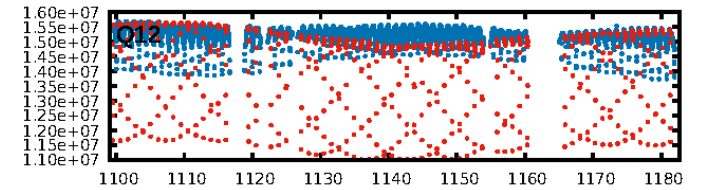
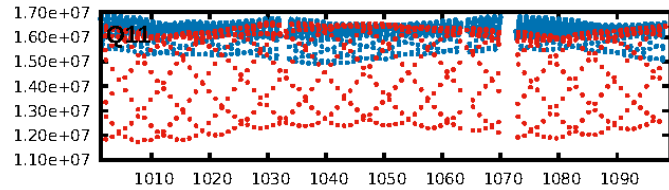
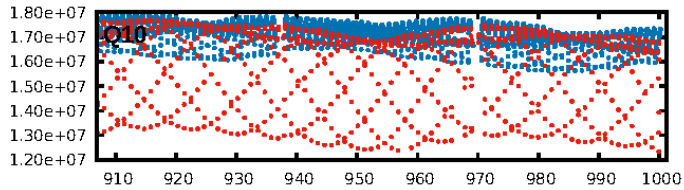
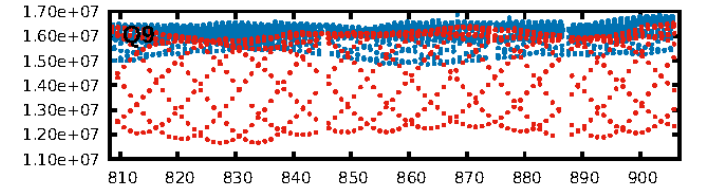
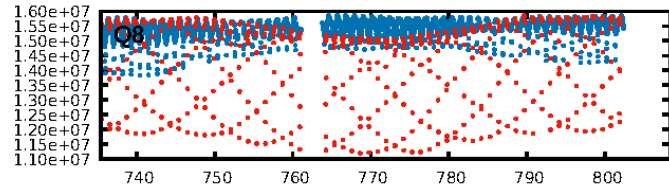
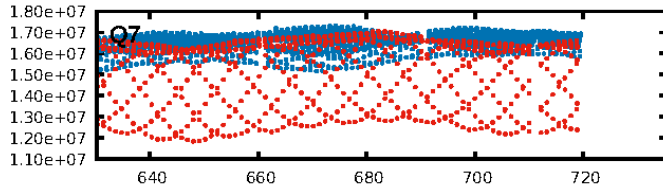
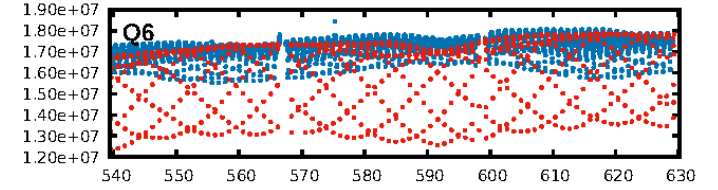
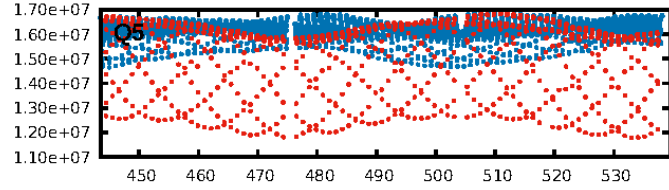
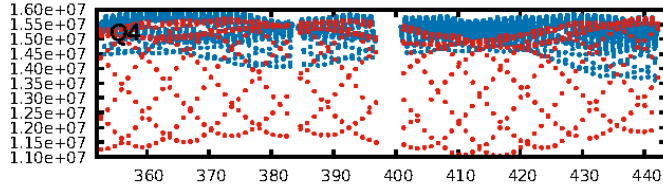
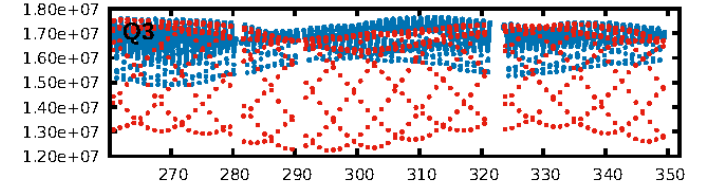
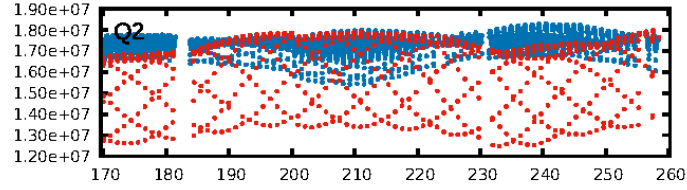
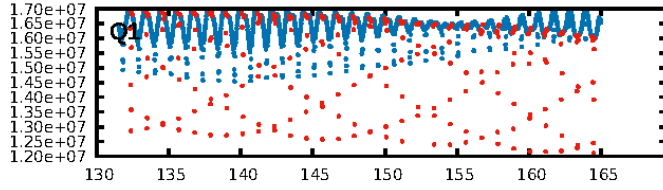
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1162/1162]
GhostDiagnostic-chr: 1.171
Centroid-sig: N/A
Centroid-so: 0.203 arcsec [267.95σ]
OotOffset-rm: 0.015 arcsec [0.22σ]
KicOffset-rm: 0.132 arcsec [1.92σ]
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]

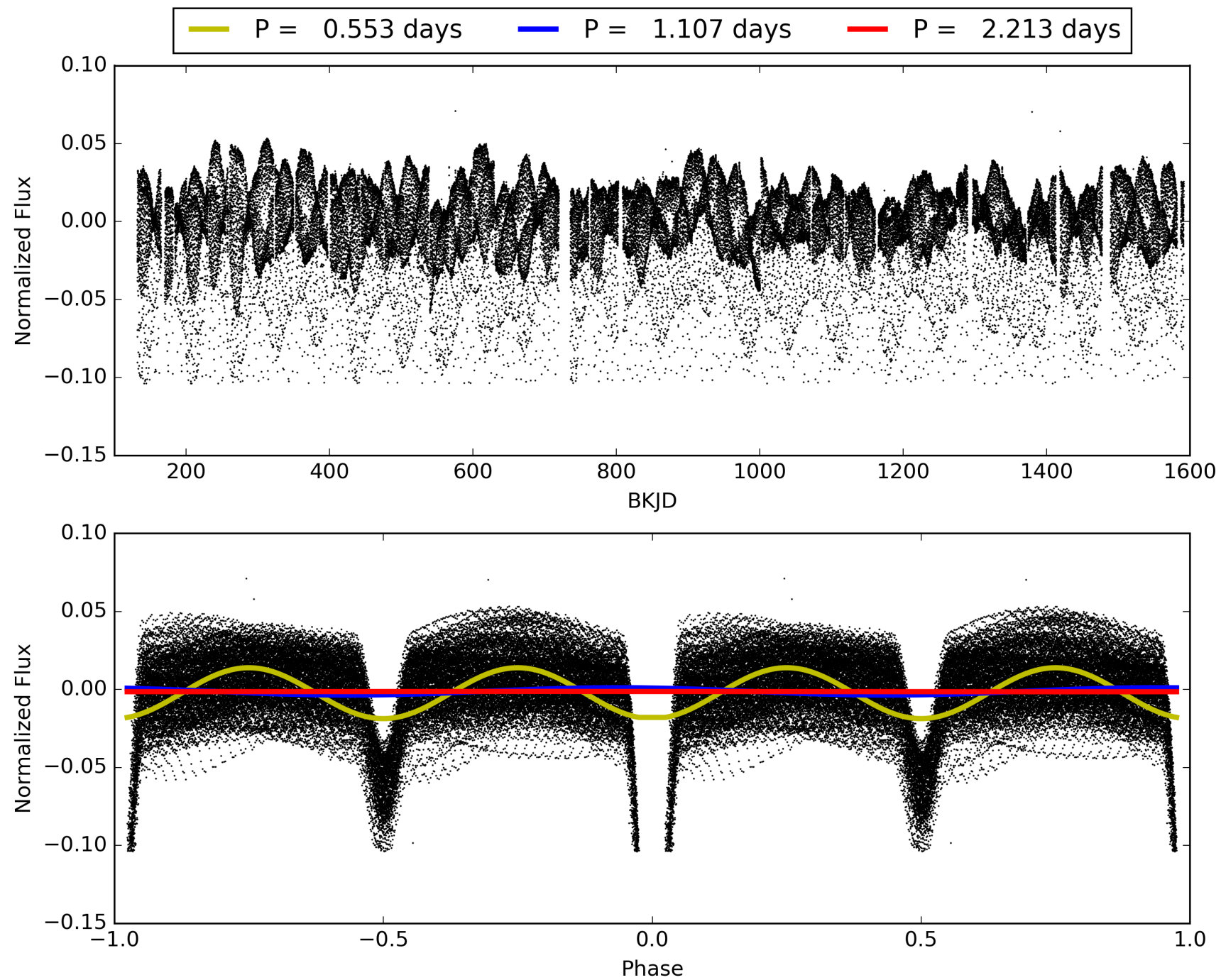
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:13:05 Z

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

TCE 006695889-01, PDC Light Curves

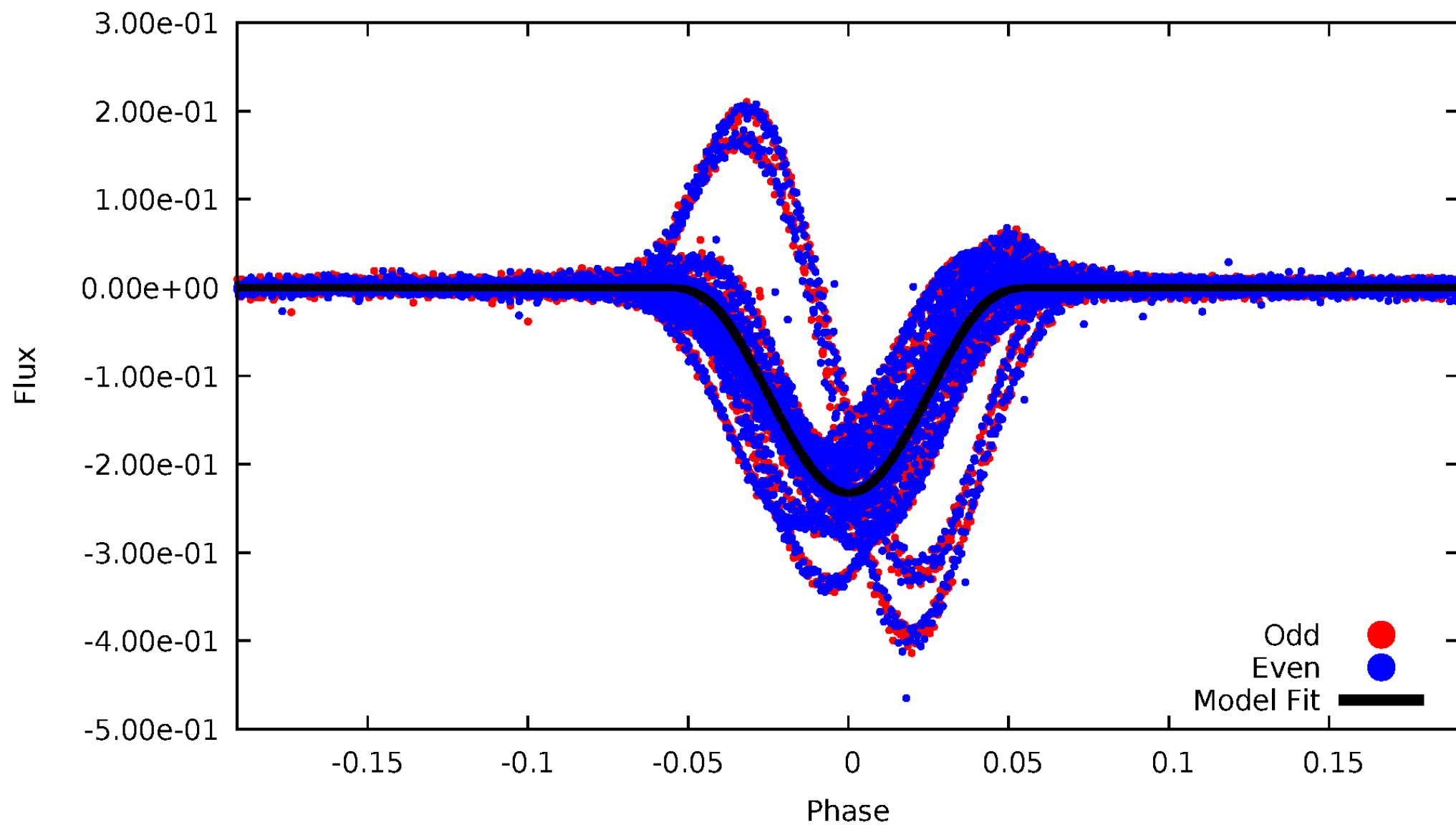


TCE 006695889-01



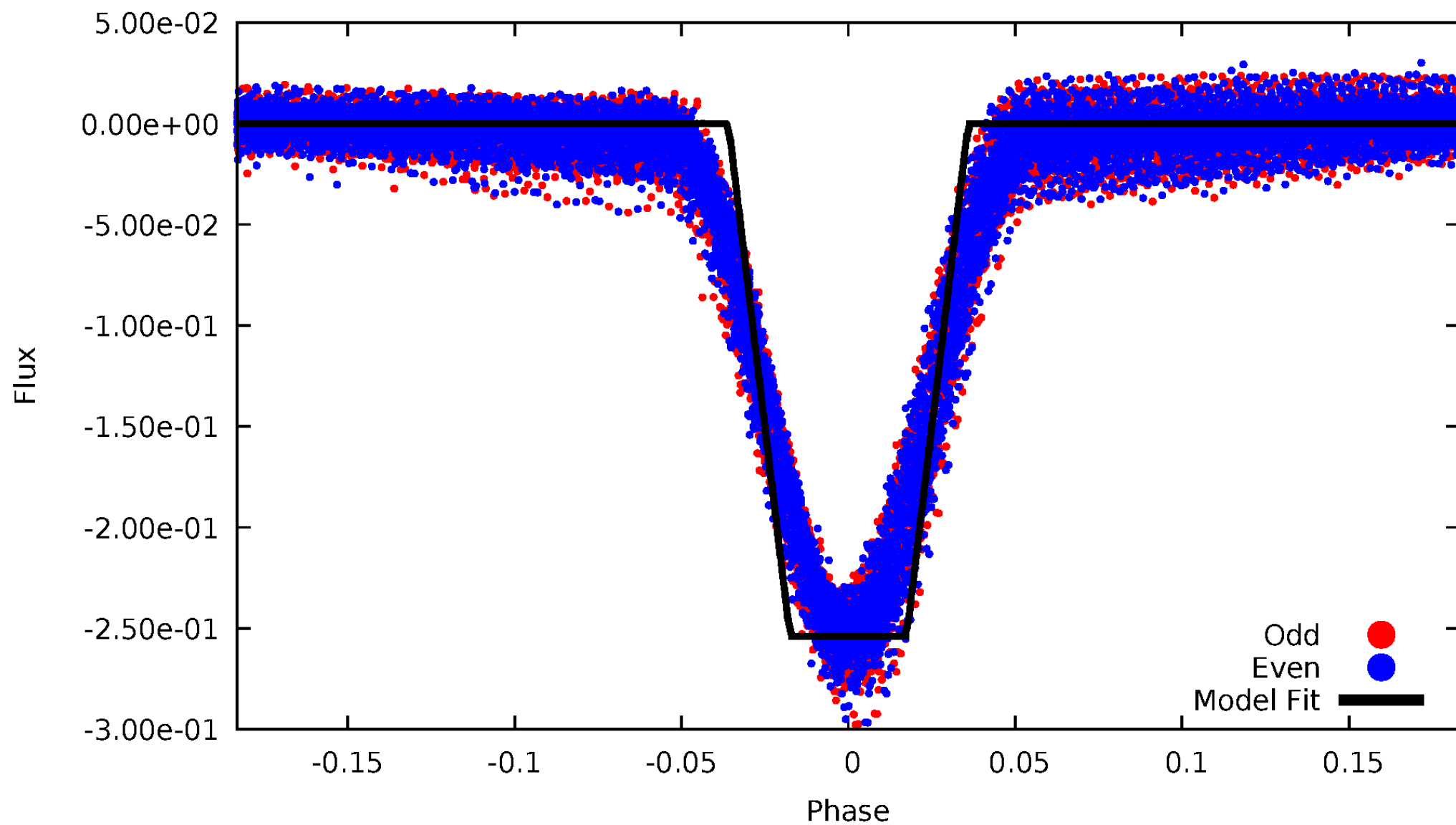
DV Odd/Even

TCE 006695889-01



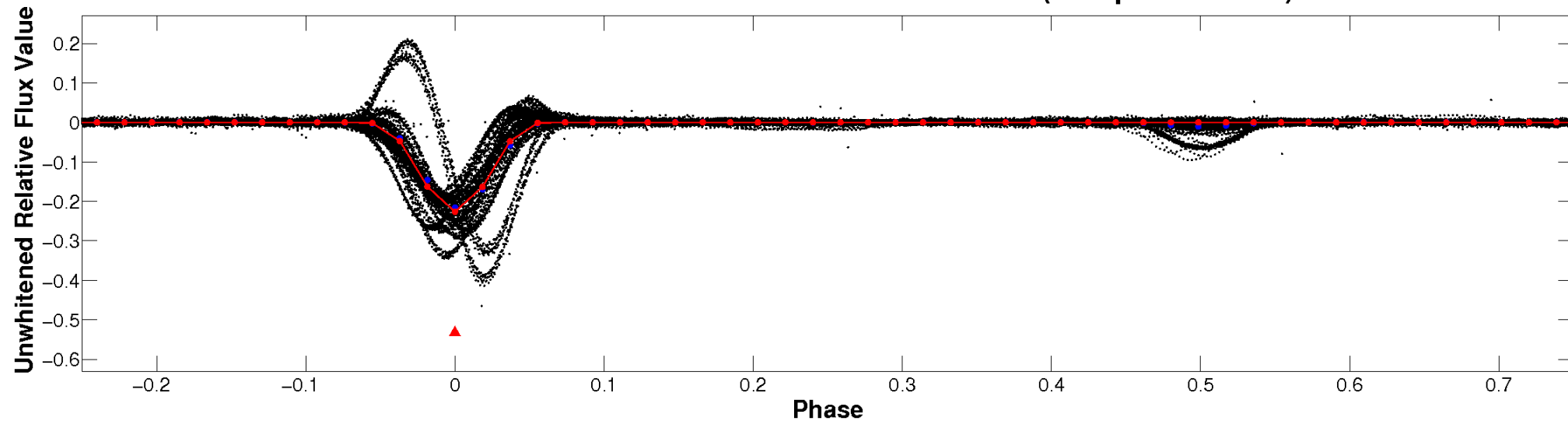
ALT Odd/Even

TCE 006695889-01

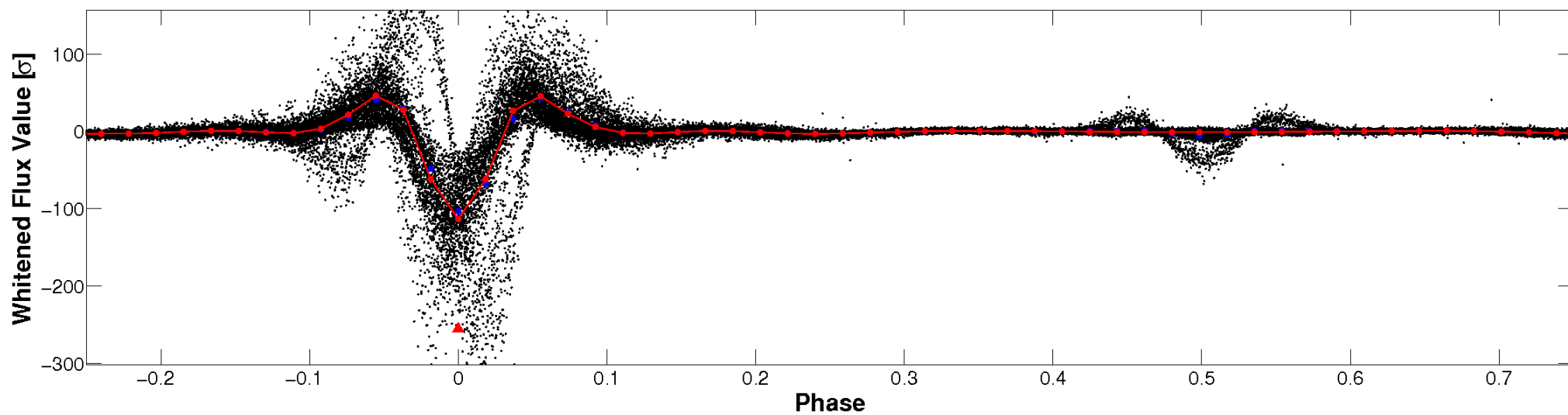


Non-Whitened Vs. Whitened Light Curve

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

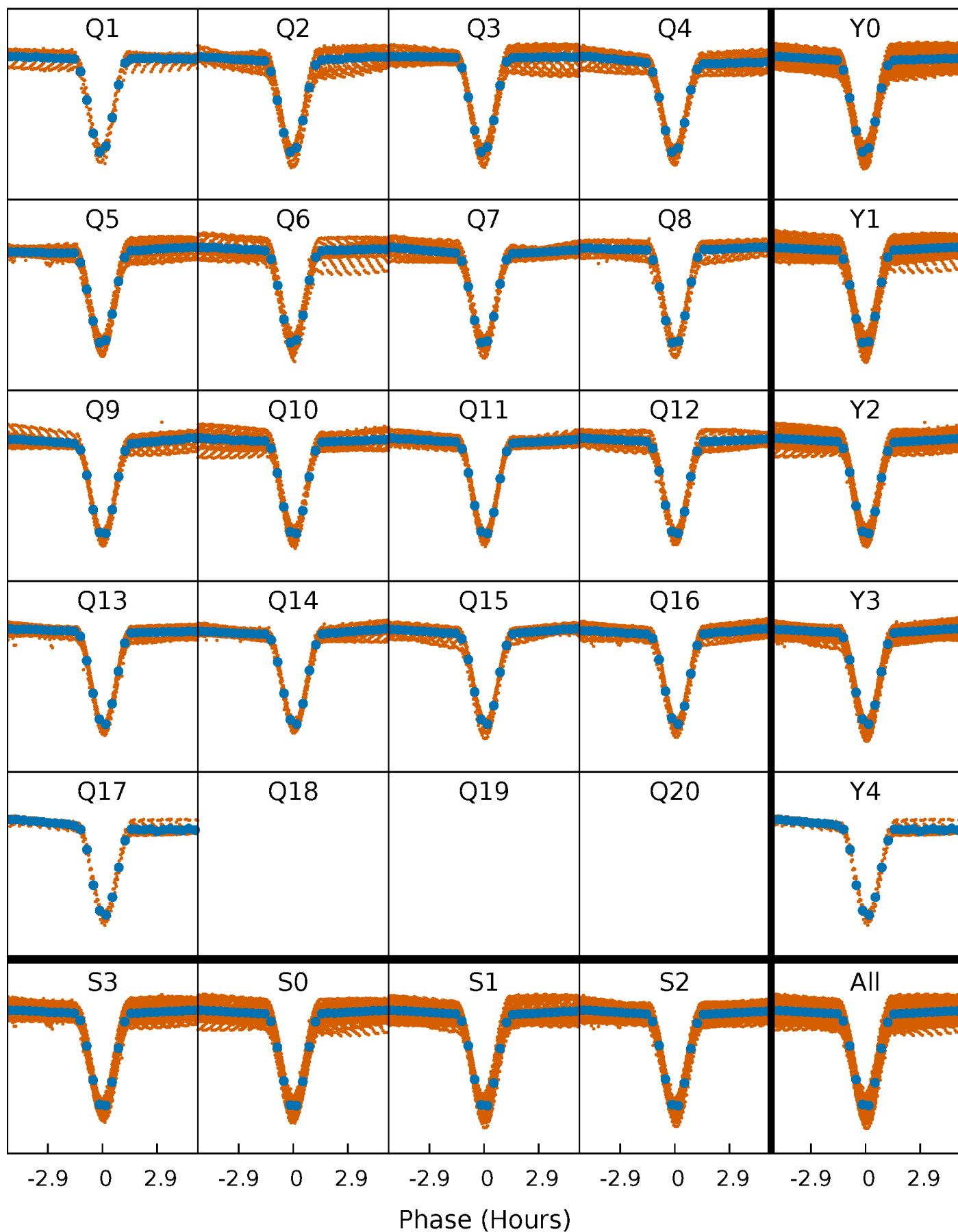


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



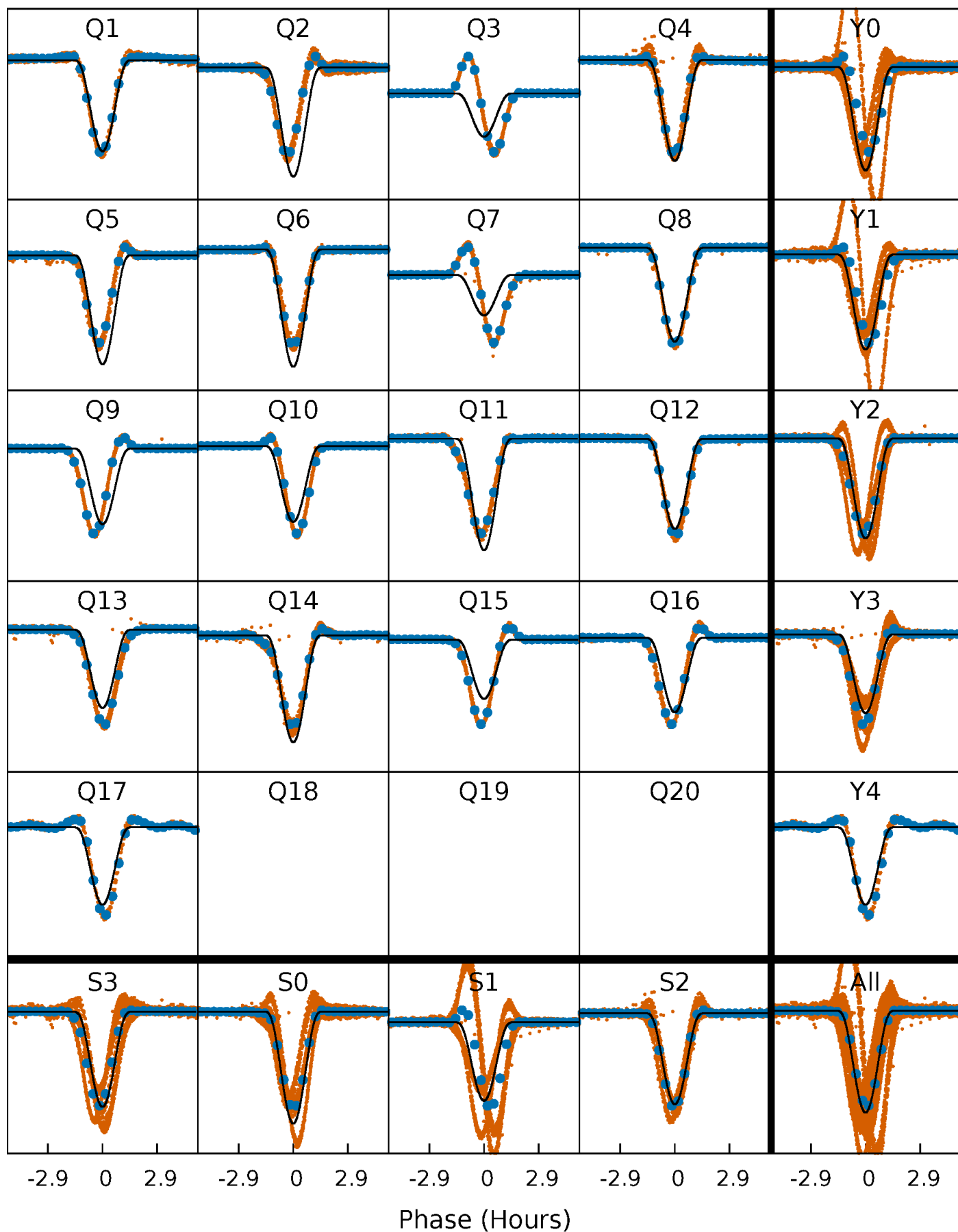
PDC Quarter-Phased Transit Curves

TCE 006695889-01 P= 1.106556 Days $T_0=132.377367$ (BKJD)



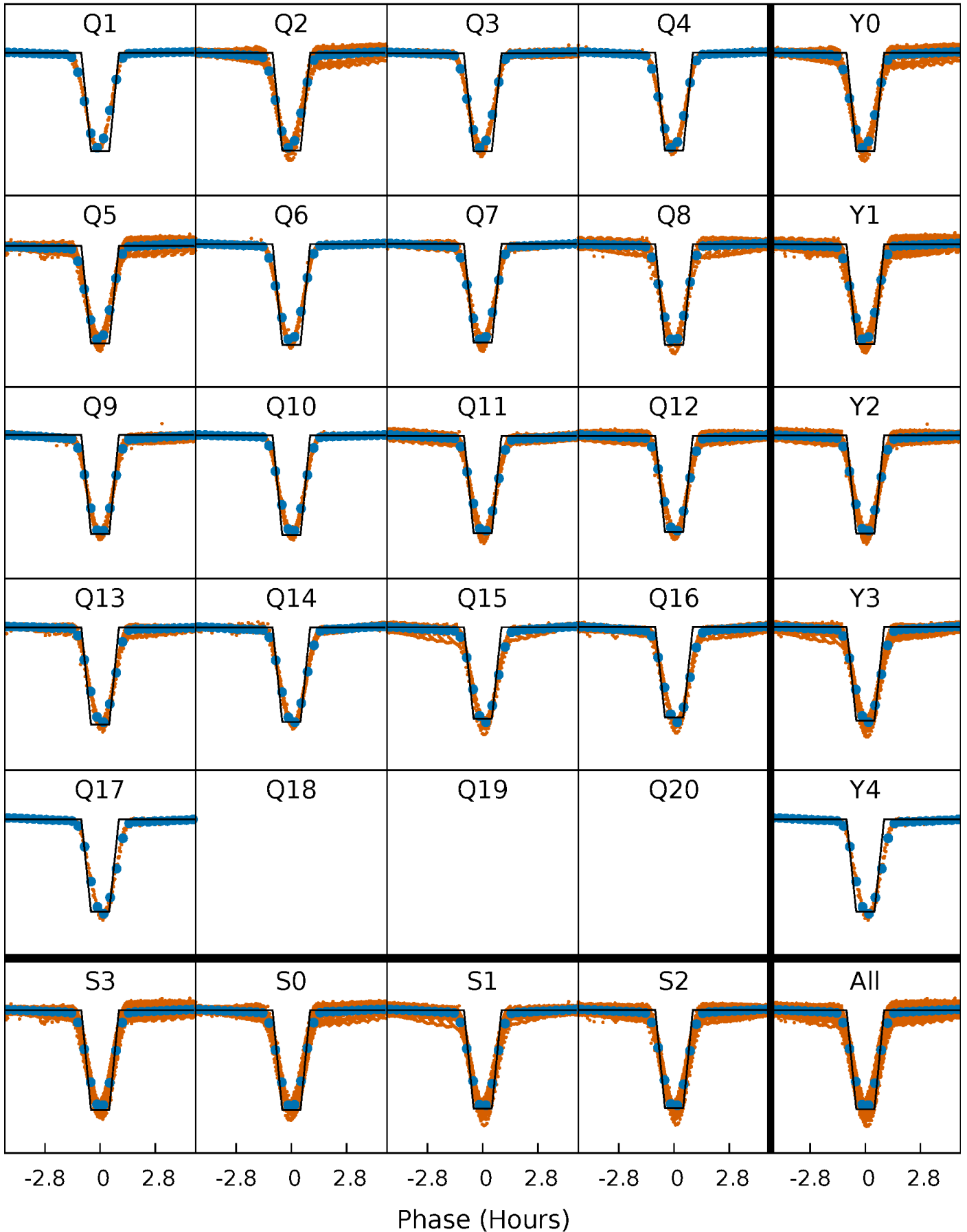
DV Quarter-Phased Transit Curves

TCE 006695889-01 P= 1.106556 Days $T_0=132.377367$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

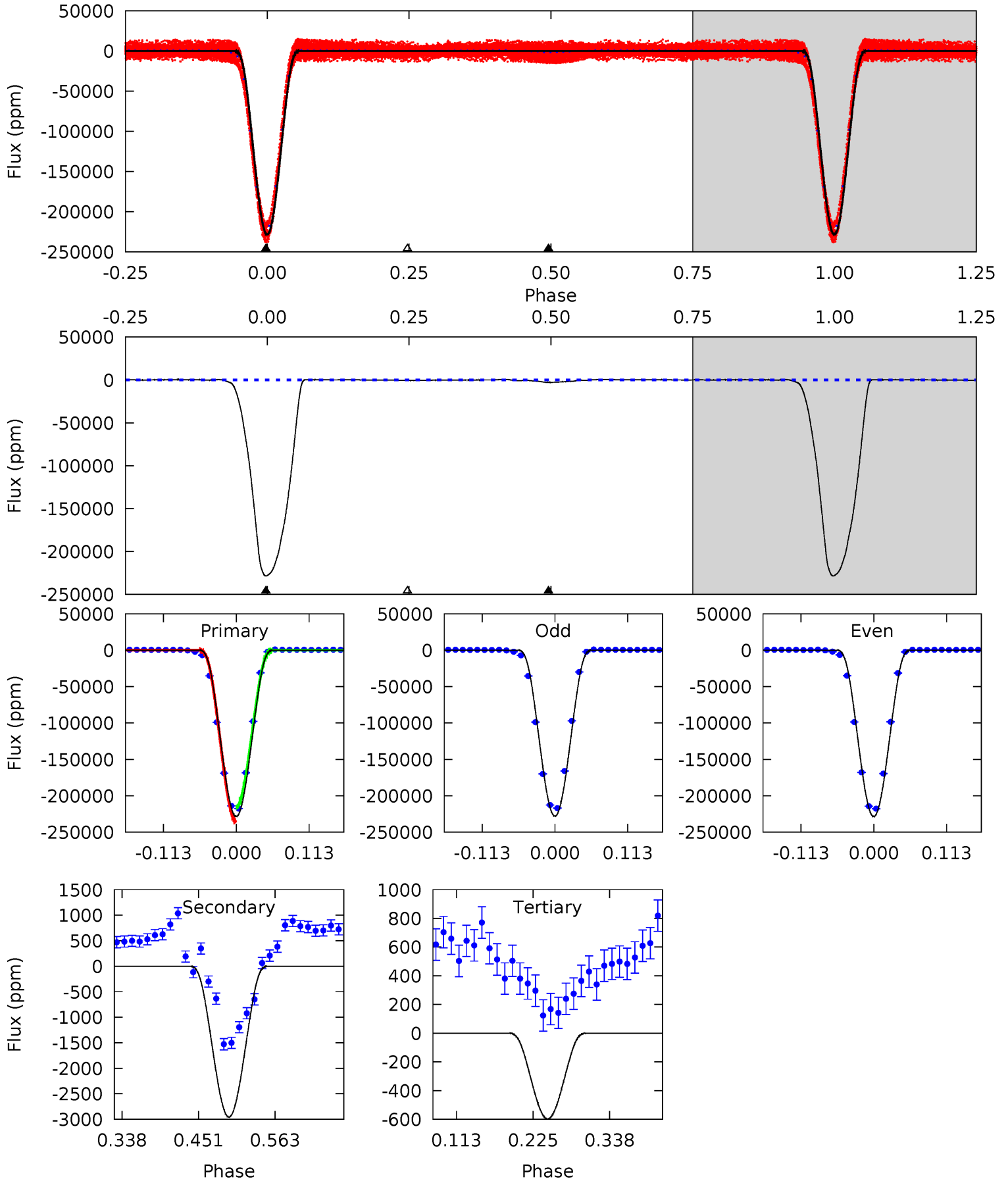
TCE 006695889-01 P= 1.106554 Days $T_0=132.378909$ (BKJD)



DV Model-Shift Uniqueness Test

006695889-01, P = 1.106556 Days, E = 131.270811 Days

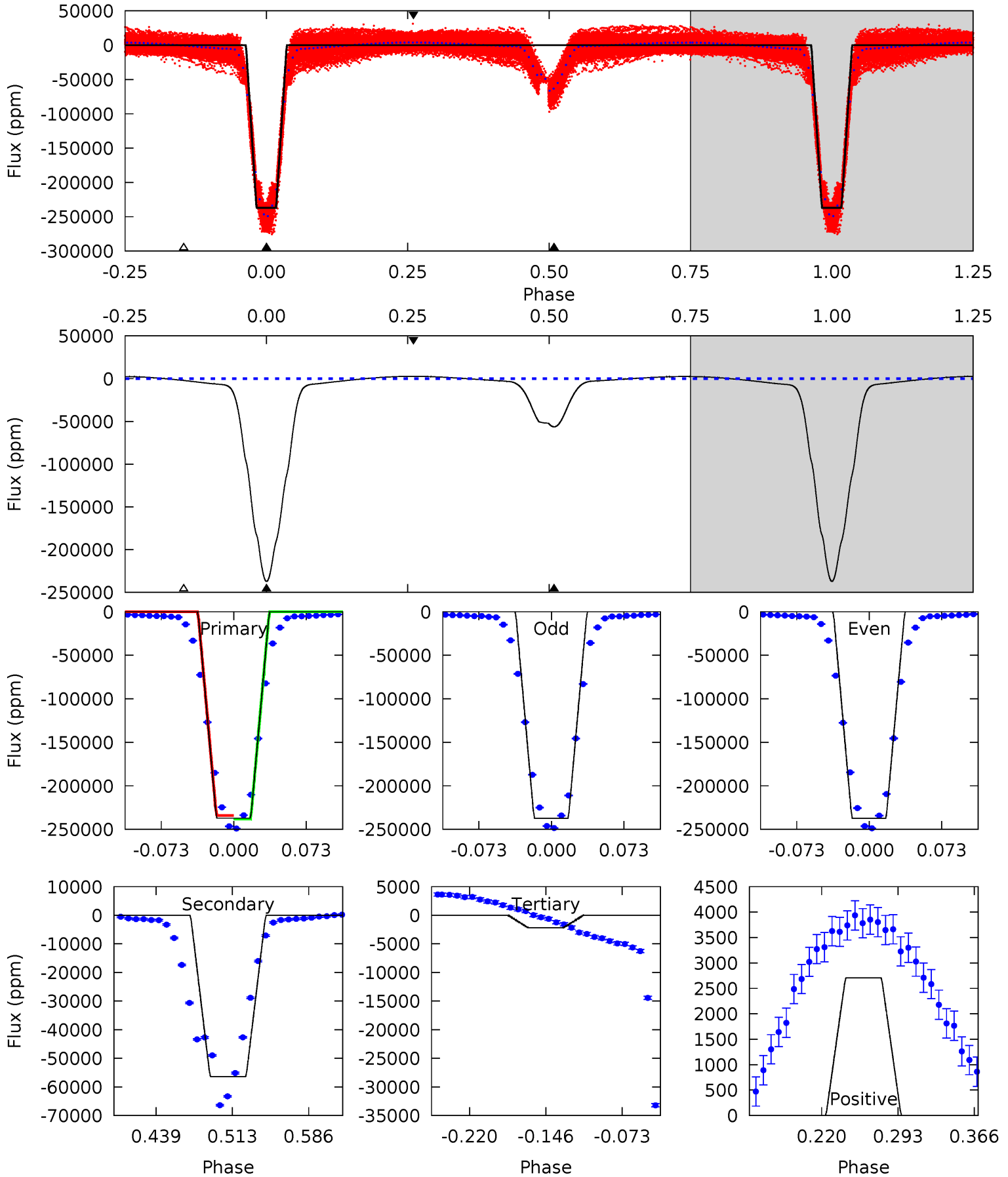
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3224	41.7	8.43	0	4.54	1.59	3.28	3216	3224	33.3	41.7	4.22	1.03	0.00	143.4



Alt Model-Shift Uniqueness Test

006695889-01, P = 1.106554 Days, E = 131.272355 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1843	438.1	16.8	21.0	4.63	1.79	21.0	1826	1822	421.3	417.1	0.06	1.00	0.01	15.2



Stellar Parameters For KIC 006695889

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6205^{+174}_{-217}	$4.534^{+0.048}_{-0.204}$	$-0.540^{+0.300}_{-0.300}$	$0.873^{+0.256}_{-0.080}$	$0.948^{+0.105}_{-0.126}$	$2.009^{+0.414}_{-1.066}$
	+3%/-3%	+1%/-4%	+56%/-56%	+29%/-9%	+11%/-13%	+21%/-53%
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 006695889-01 / KOI 6757.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2956 ± 71	$56.32^{+10.41}_{-9.07}$	2542^{+162}_{-123}	-2408^{+4082}_{-209}	$0.214^{+0.089}_{-0.061}$
Alt.	-56370 ± 129	$49.77^{+10.87}_{-8.96}$	2536^{+179}_{-124}	4447^{+332}_{-286}	$5.476^{+2.534}_{-1.742}$

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 $A_{obs} \gg 1.0$

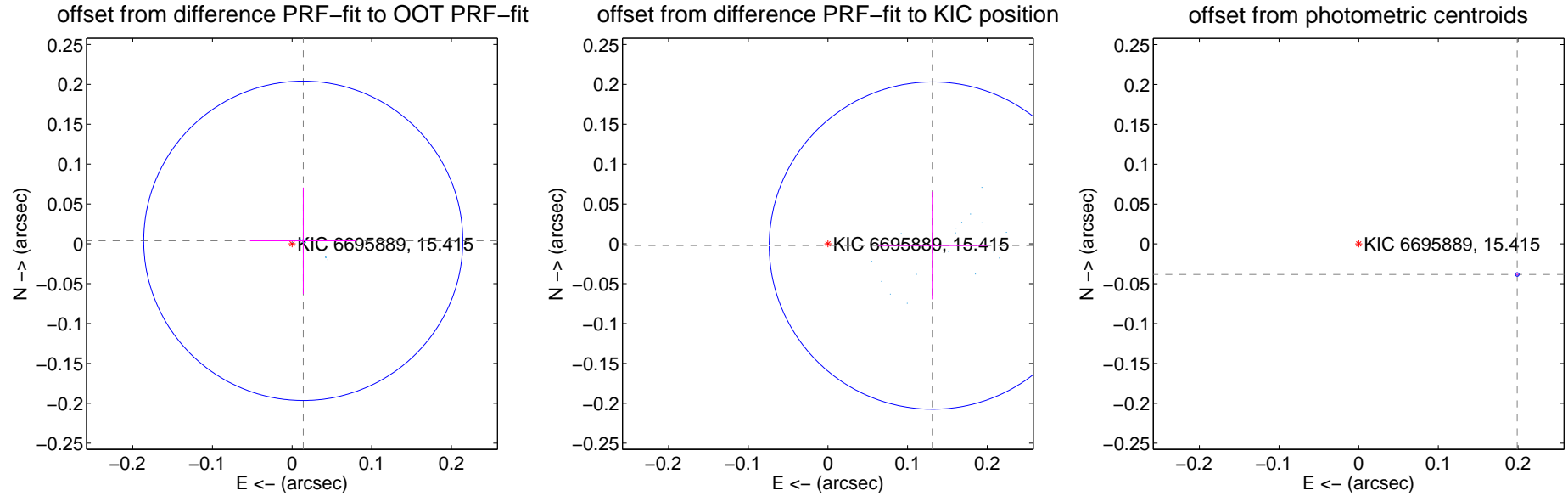
DV Centroid Data

Supplemental centroid analysis for 006695889-01. Kepler magnitude: 15.41. Transit SNR 2660.97

There are 17 quarters with good PRF difference image offsets

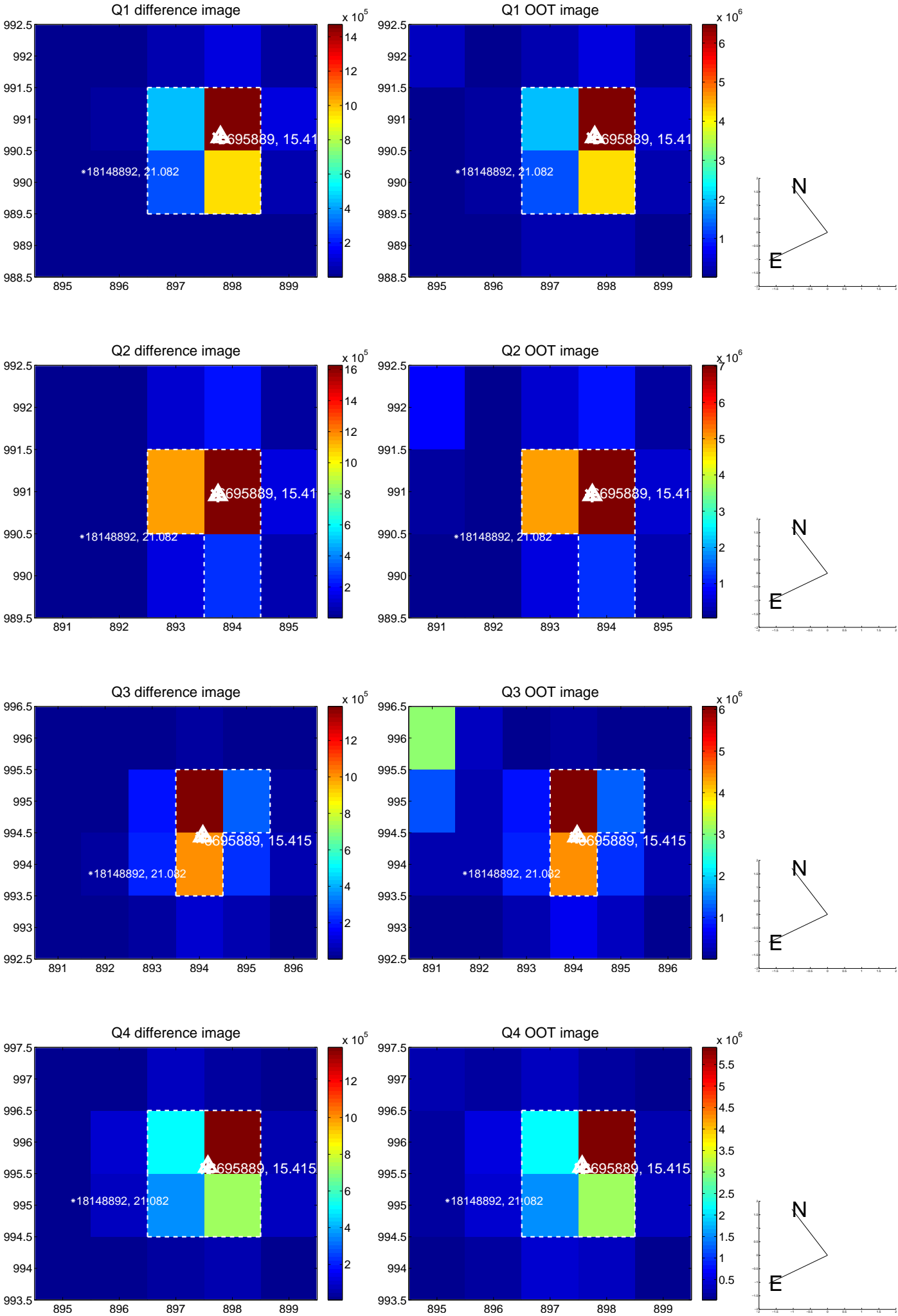
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.015 ± 0.067	0.22	-0.014 ± 0.067	0.004 ± 0.067
PRF-fit source offset from KIC position	0.132 ± 0.068	1.92	-0.132 ± 0.068	-0.002 ± 0.067
photometric centroid source offset	0.20 ± 0.00	267.95	-0.20 ± 0.00	-0.04 ± 0.00

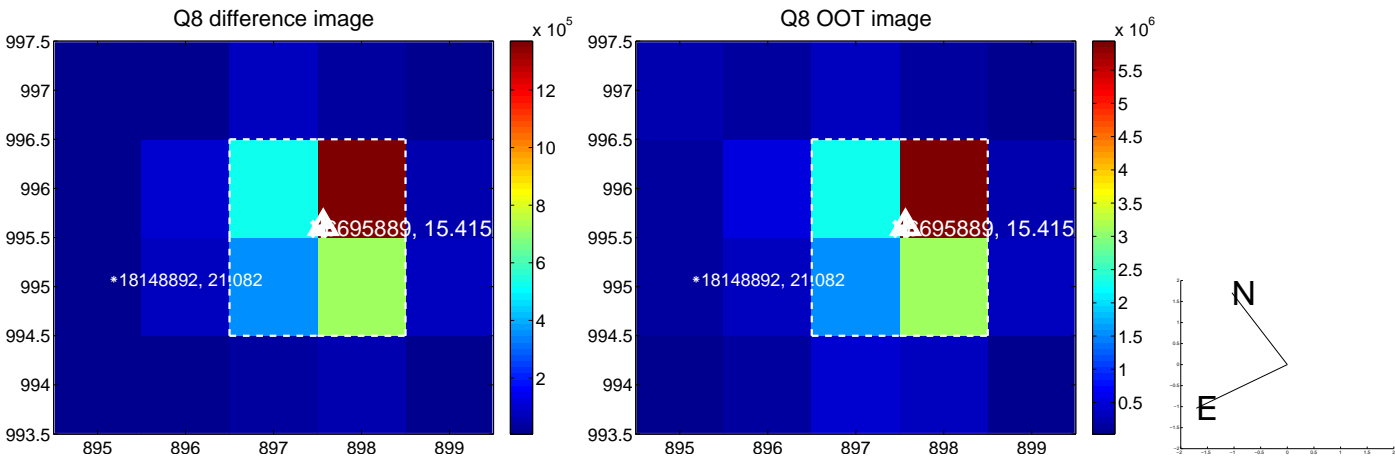
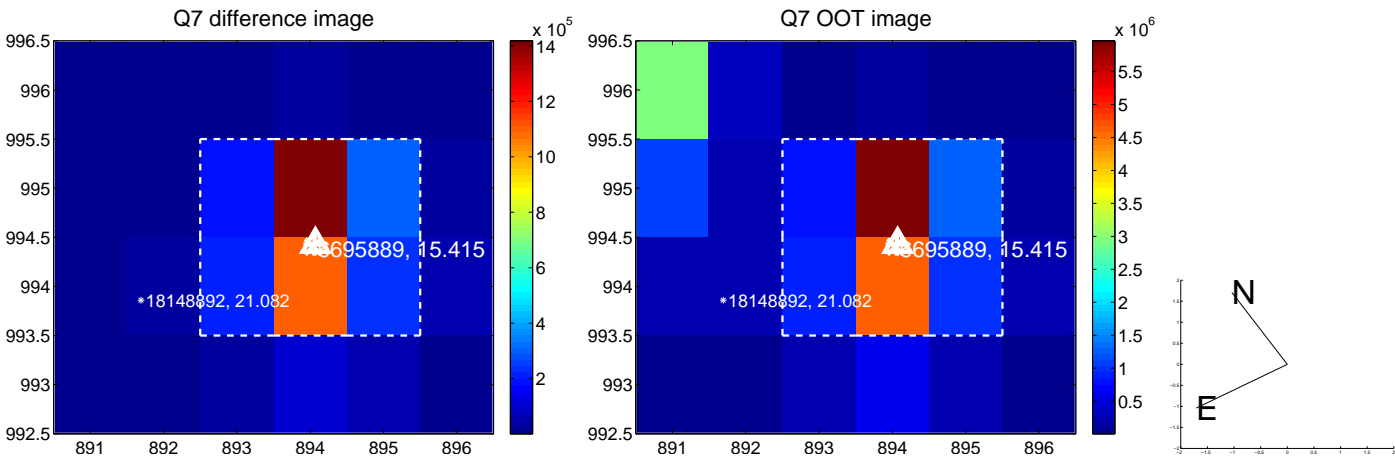
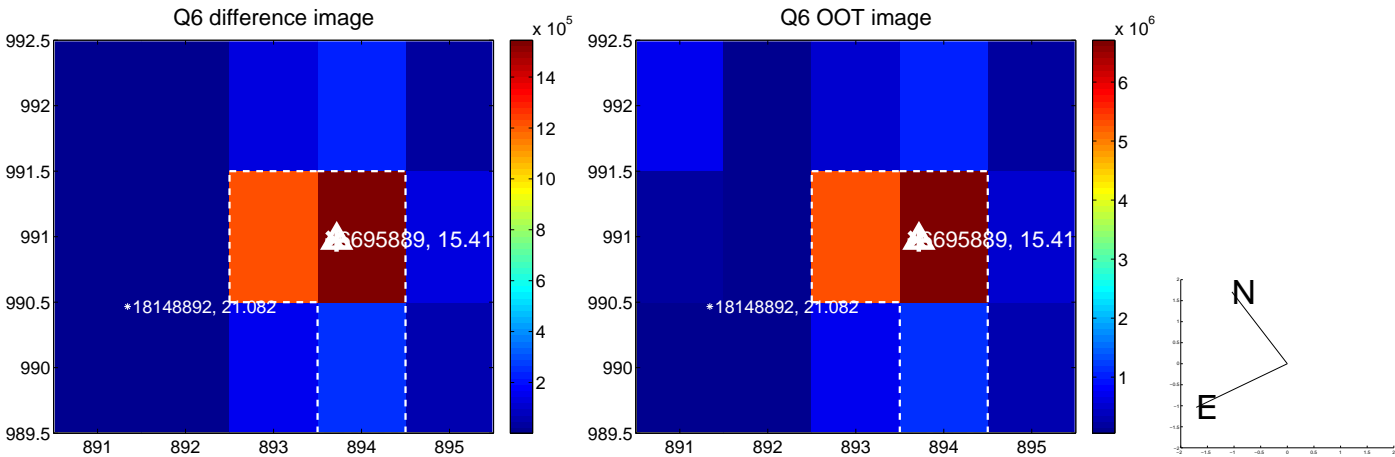
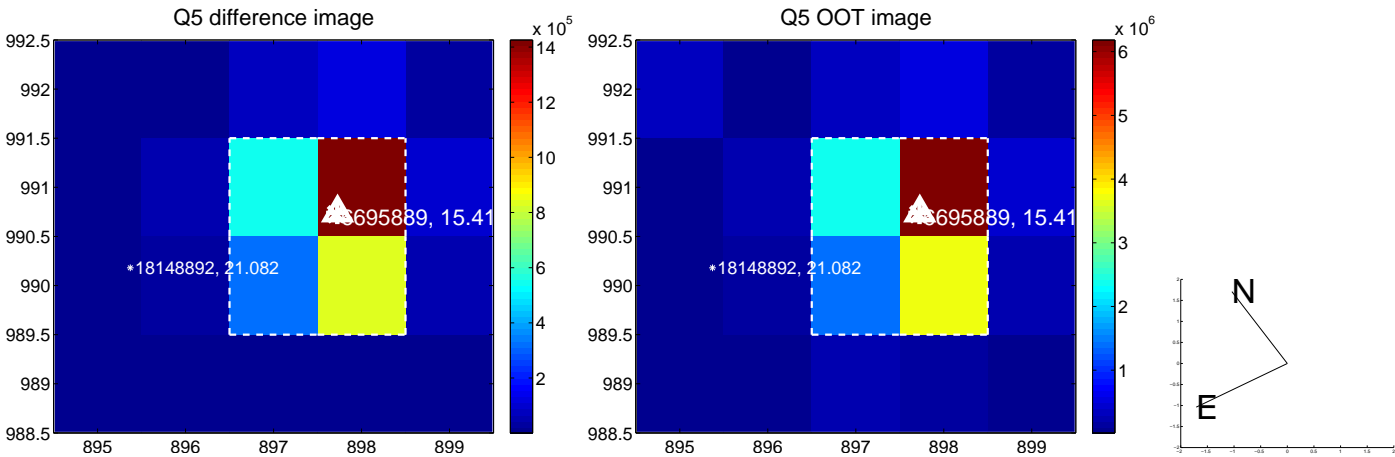


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

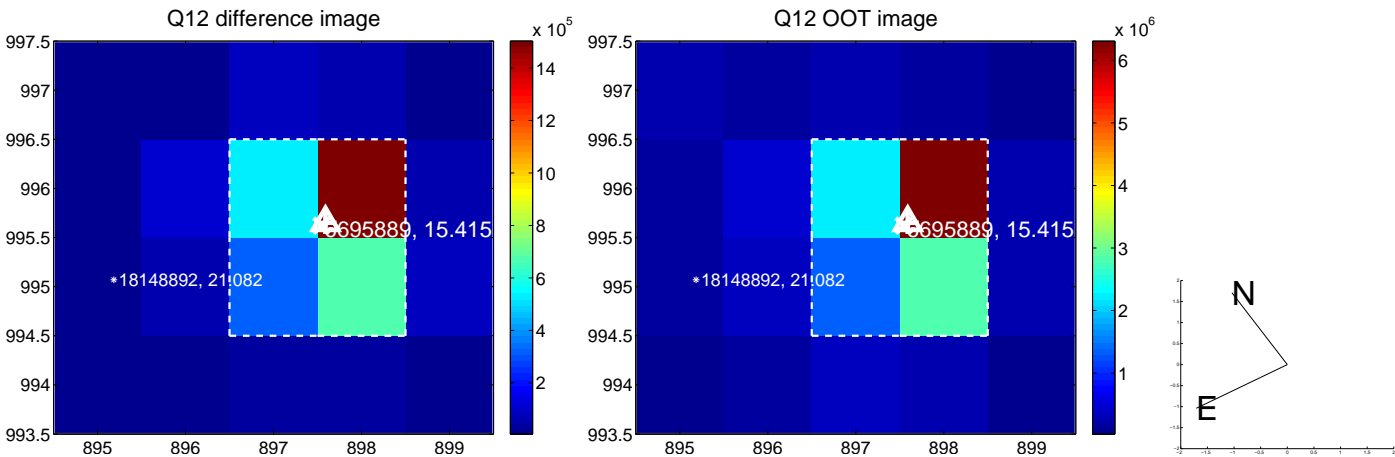
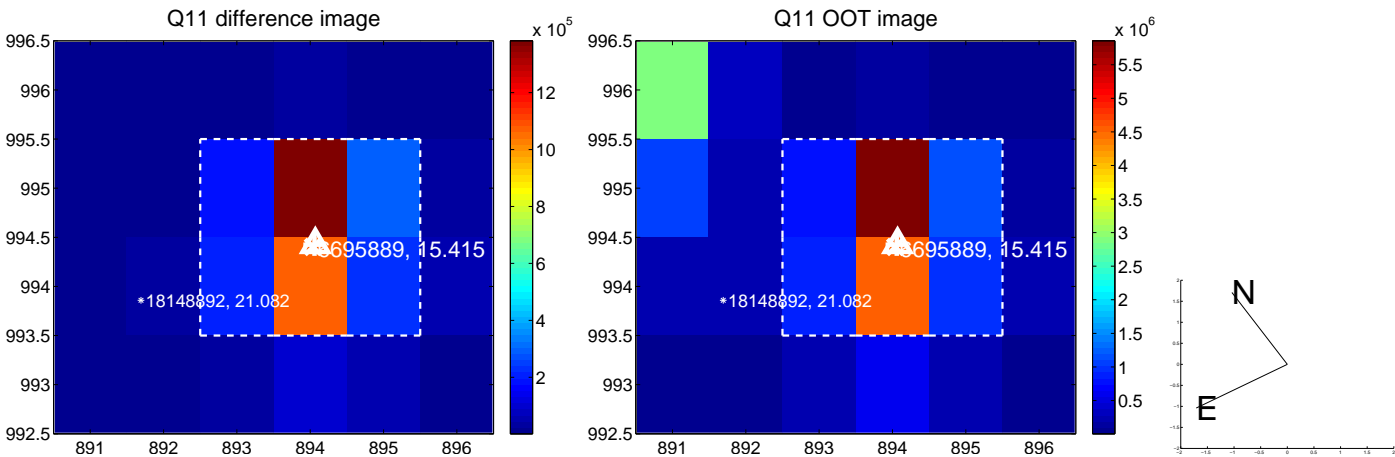
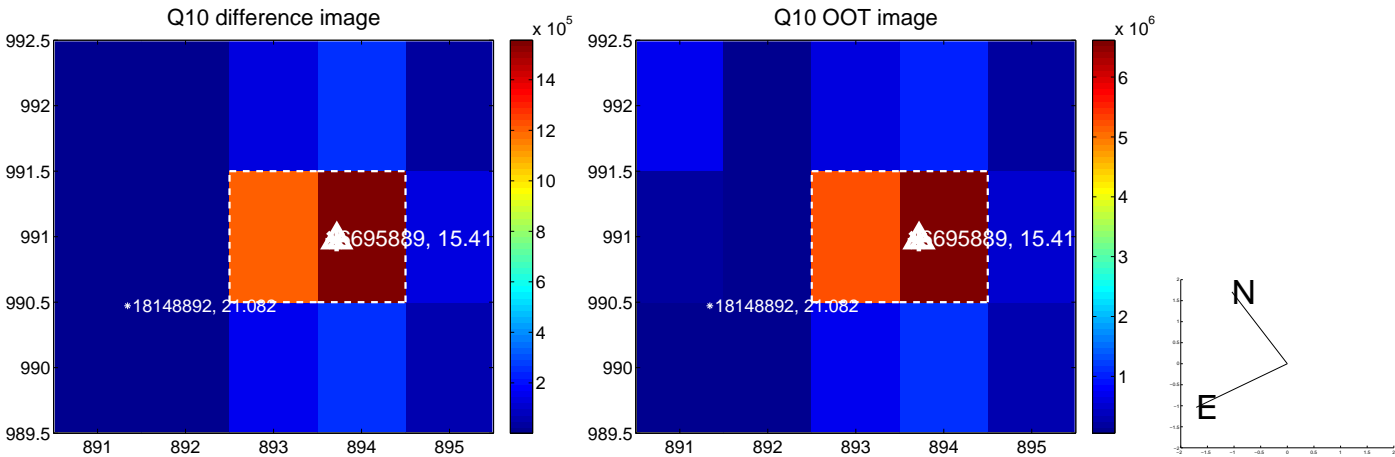
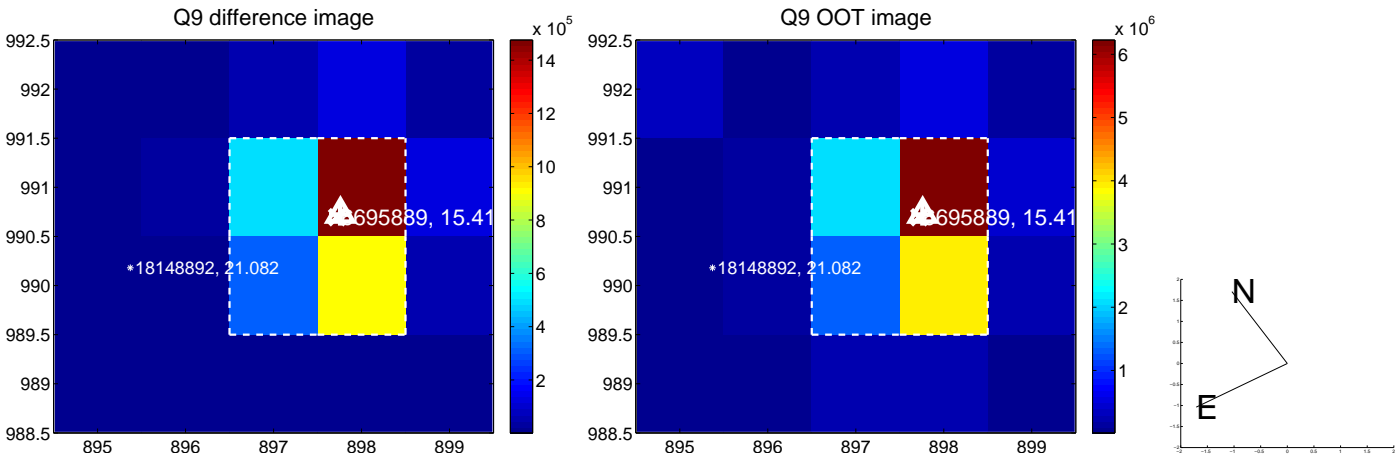
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



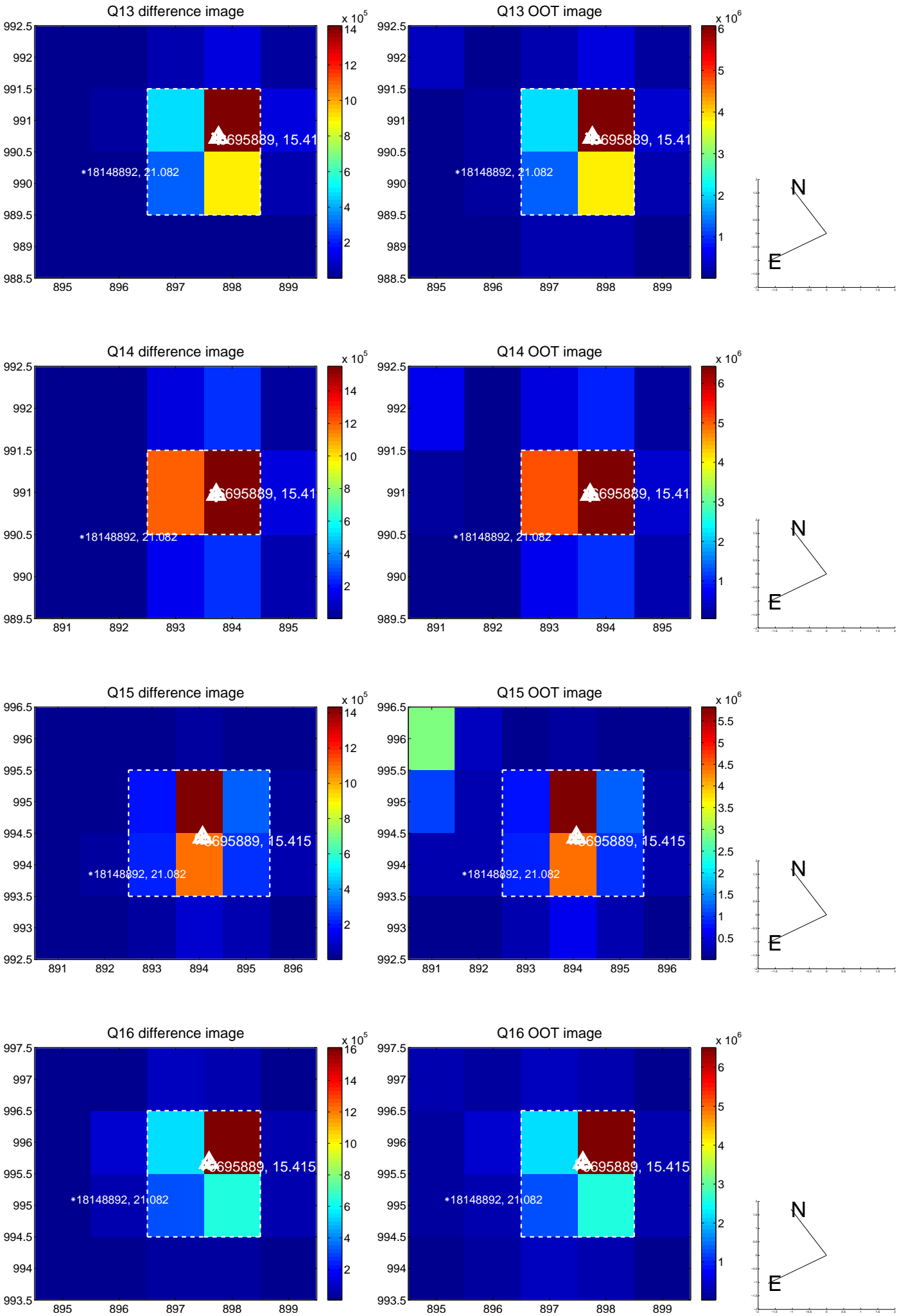
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



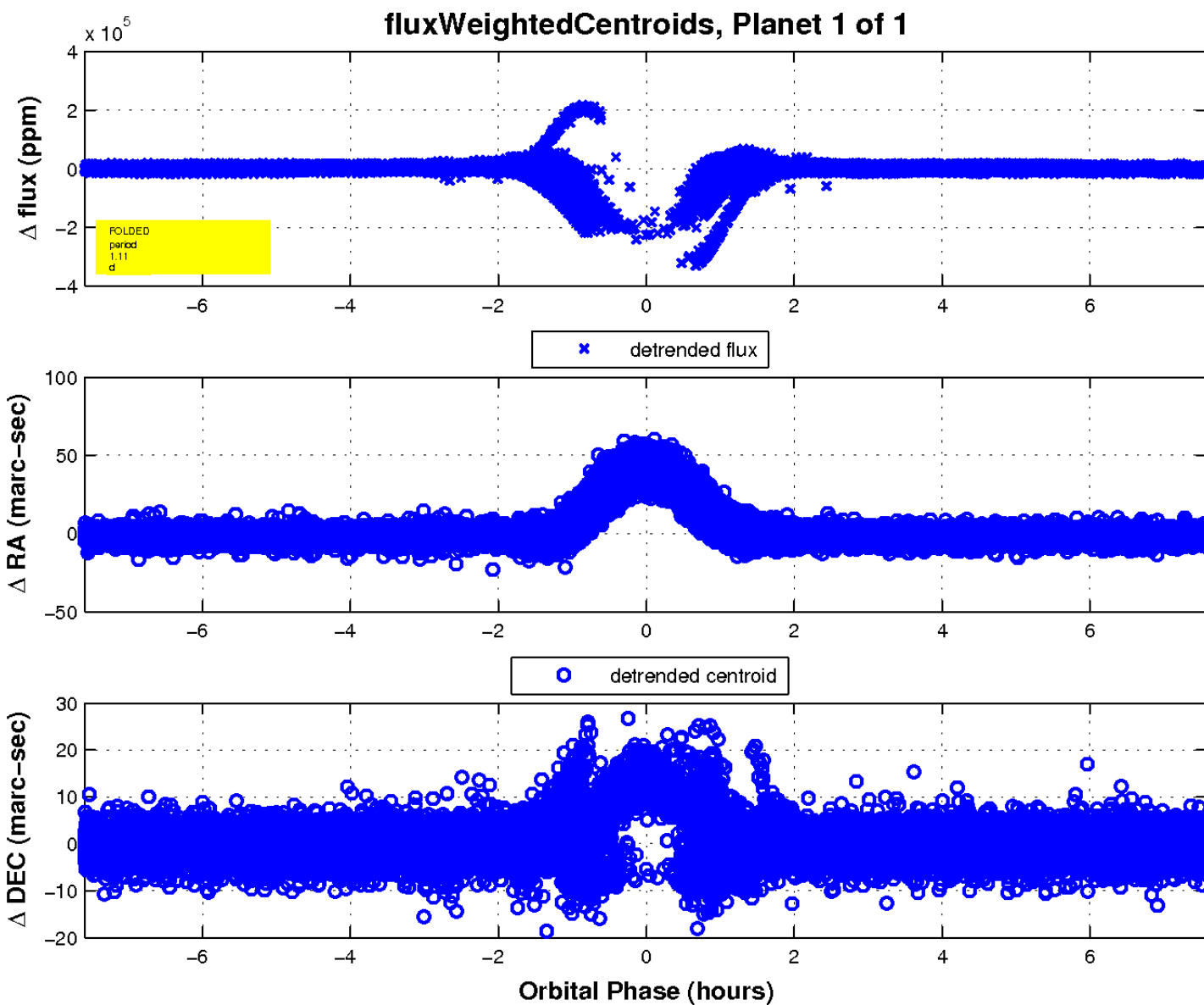
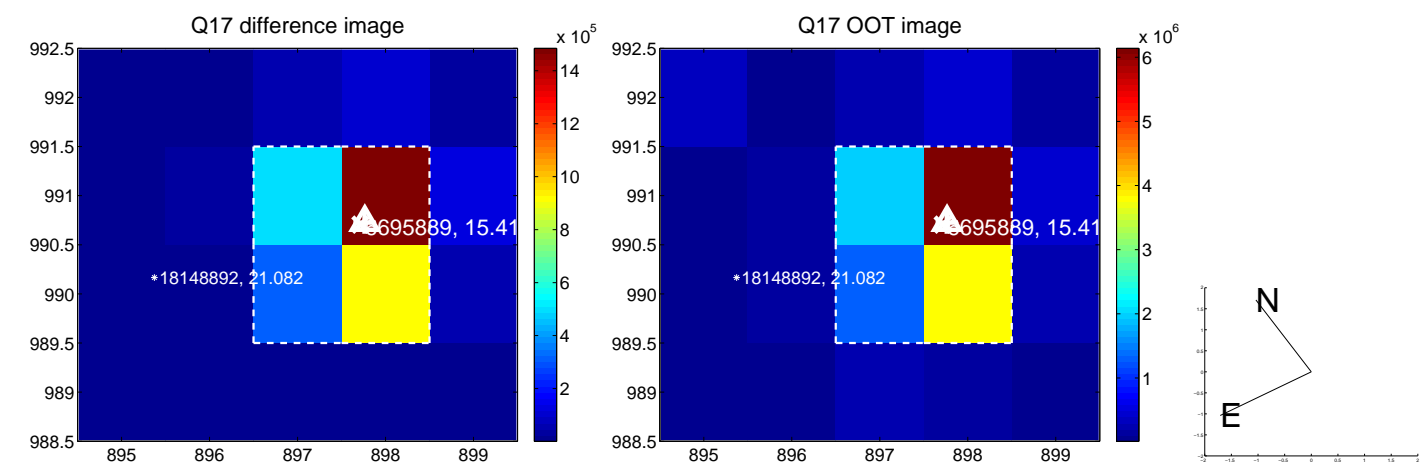
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

Declination

