

KIC 010208759

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})
010208759-01	OBS	7295.01	2.287506	132.358987	214061.8	6.000	48732.6	-1.0	1.39	6773	65.47	2491.27

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010208759-01	OBS	FP	0.00	0	1	0	0	DEPTH_ODDEVEN_DV—DEPTH_ODDEVEN_ALT—MOD_ODDEVEN_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.

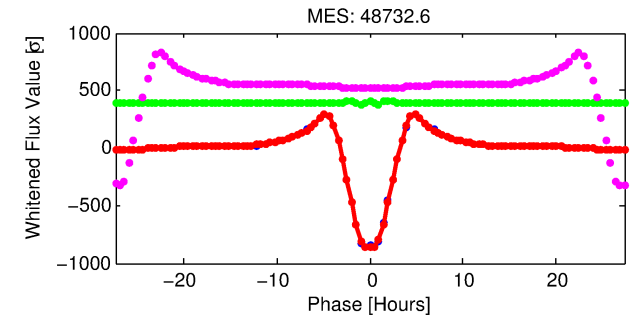
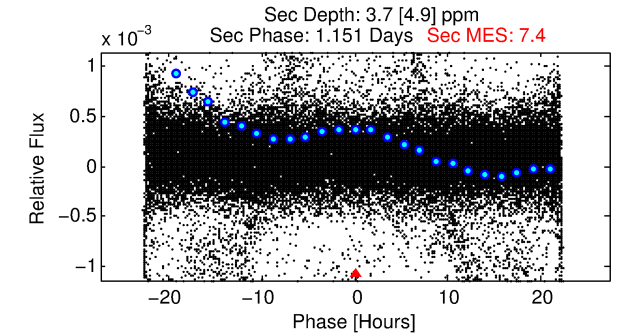
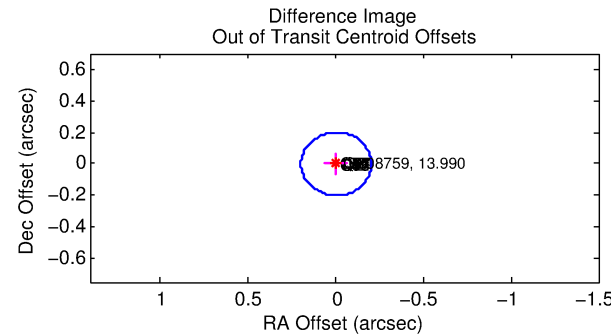
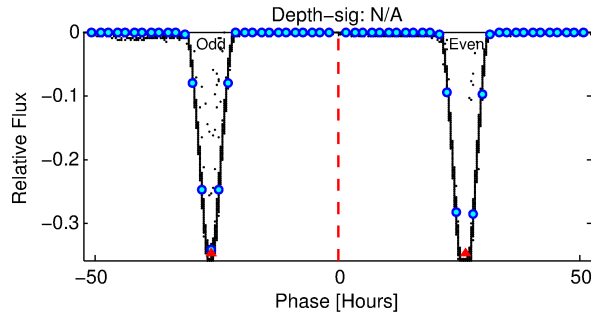
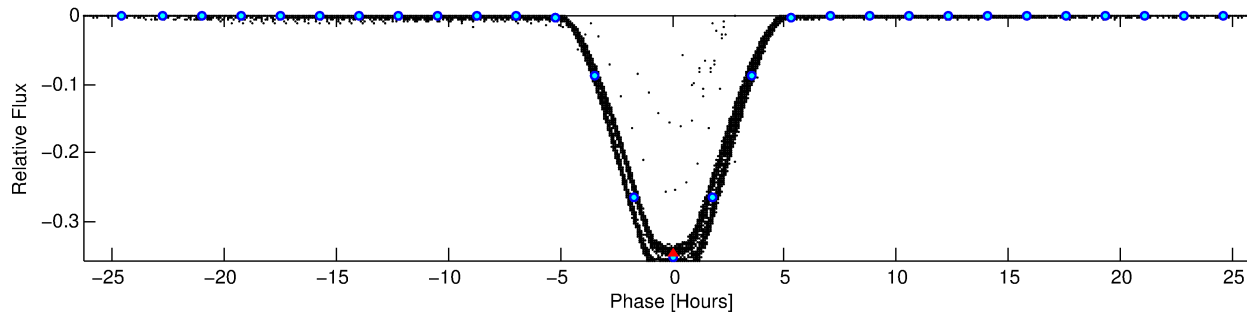
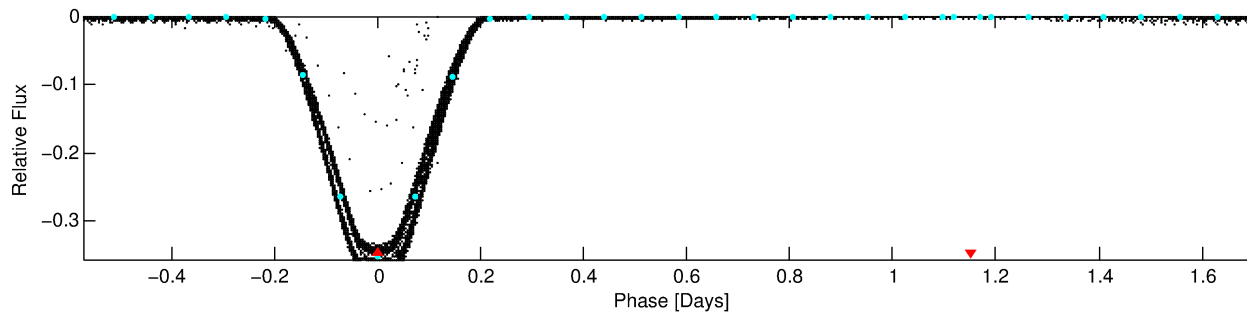
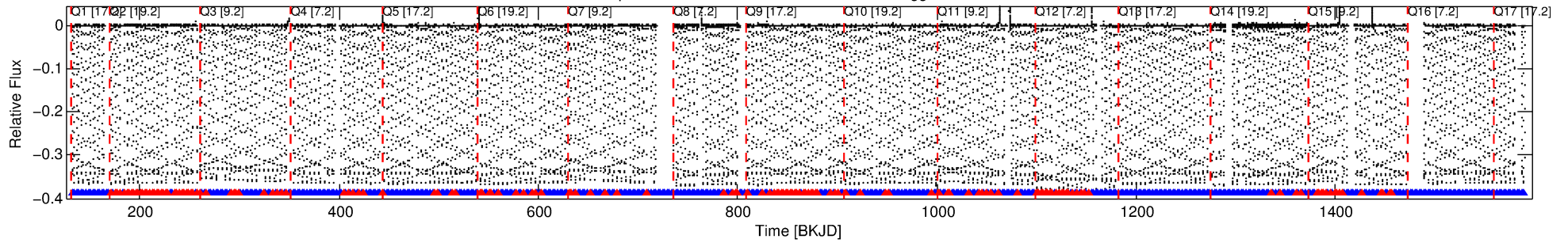
Ephemeris Match Information For 010208759-01

No Significant Match Found

DV One-Page Summary

KIC: 10208759 Candidate: 1 of 1 Period: 2.288 d
KOI: K07295.01 Corr: 0.770

Kp: 13.99 R*: 1.39 Rs Teff: 6773.0 K Logg: 4.31 Fe/H: 0.210



TPS TCE Results:

Period = 2.28751 d
Epoch = 132.3590 BKJD

DV fit results are unavailable

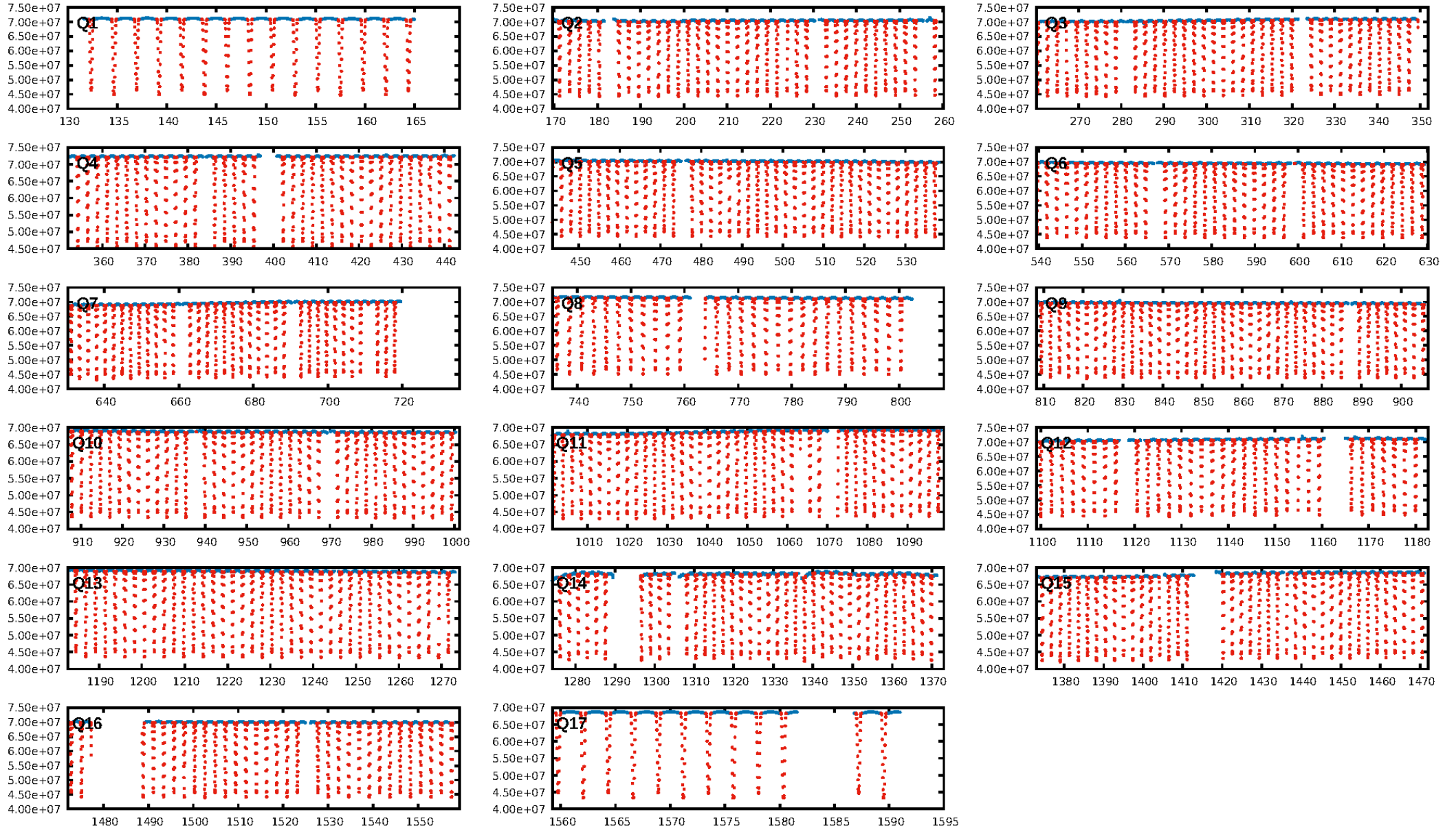
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.72 [403/557]
GhostDiagnostic-chr: 1.406
Centroid-sig: 0.0%
Centroid-so: 0.119 arcsec [401.29σ]
OotOffset-rm: 0.003 arcsec [0.05σ]
KicOffset-rm: 0.042 arcsec [0.63σ]
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]

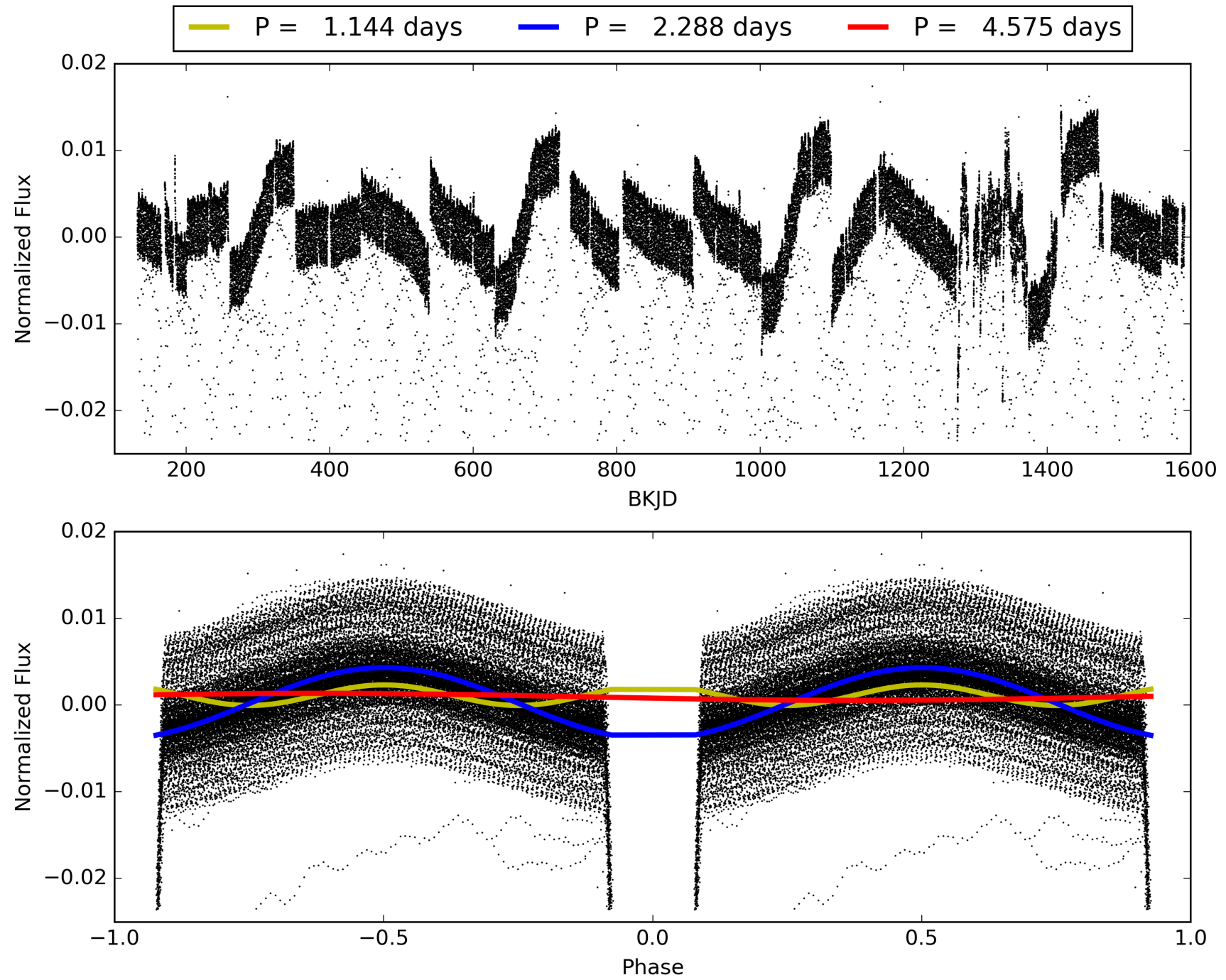
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:06:06 Z

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

TCE 010208759-01, PDC Light Curves

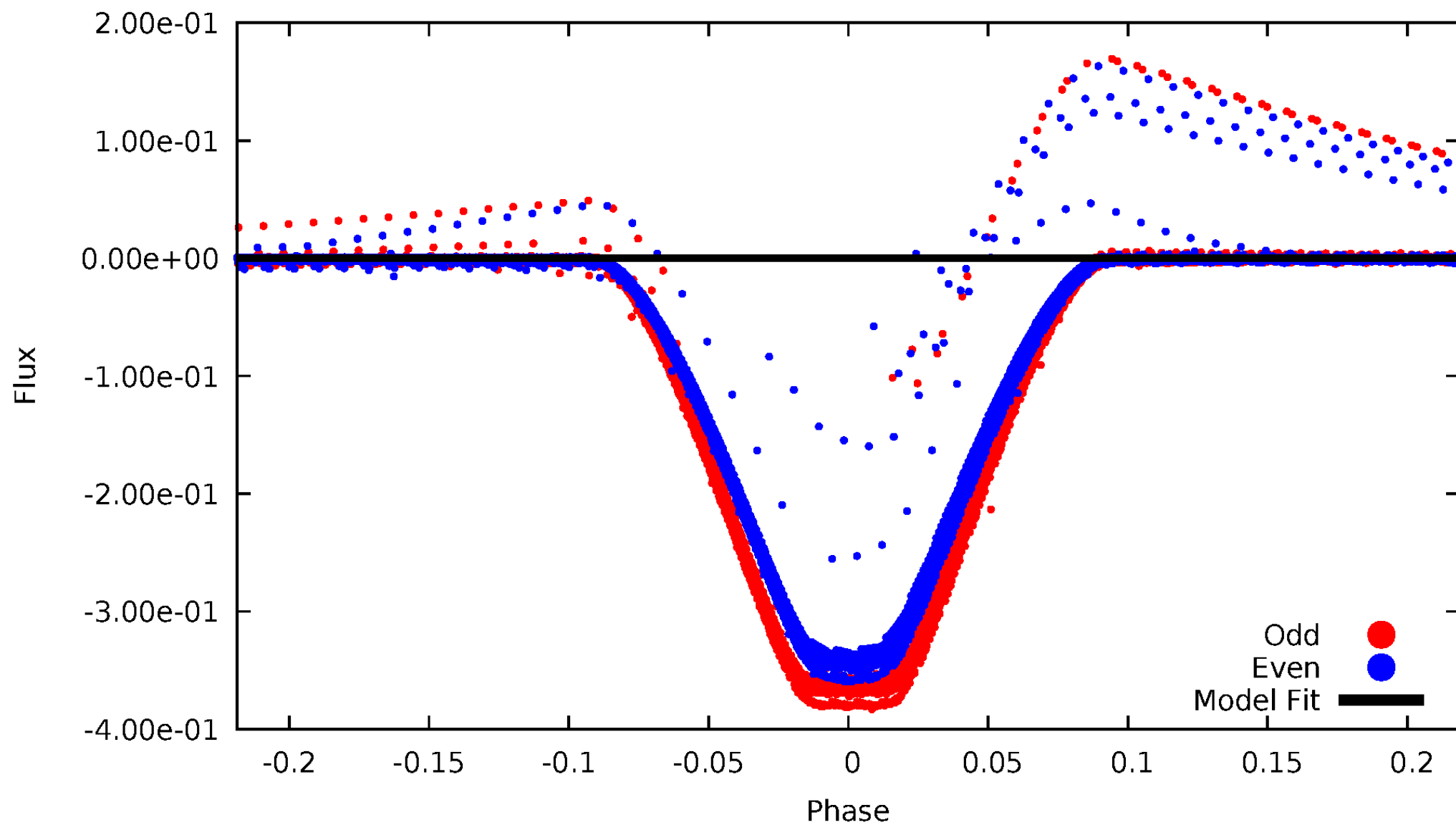


TCE 010208759-01



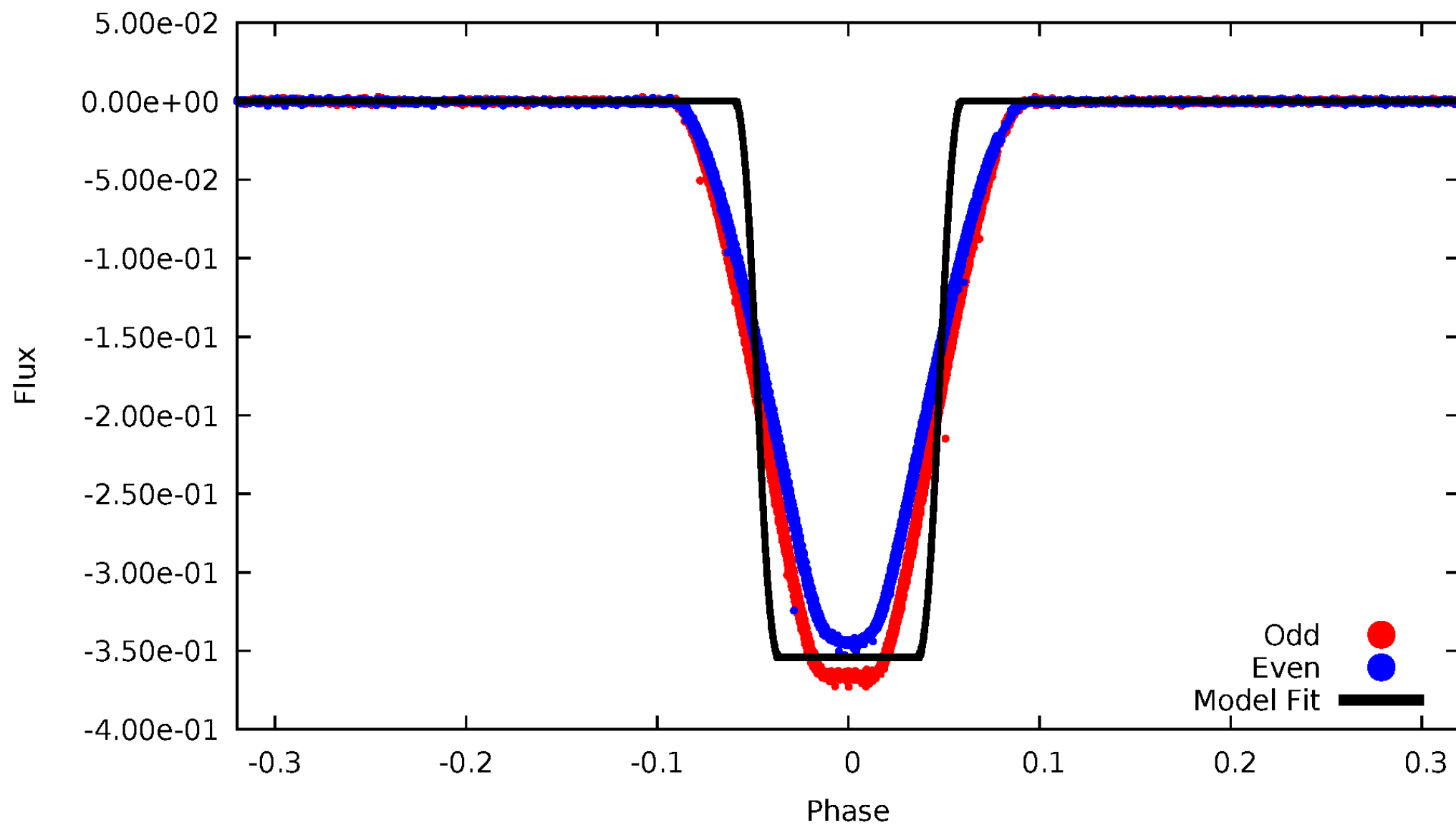
DV Odd/Even

TCE 010208759-01



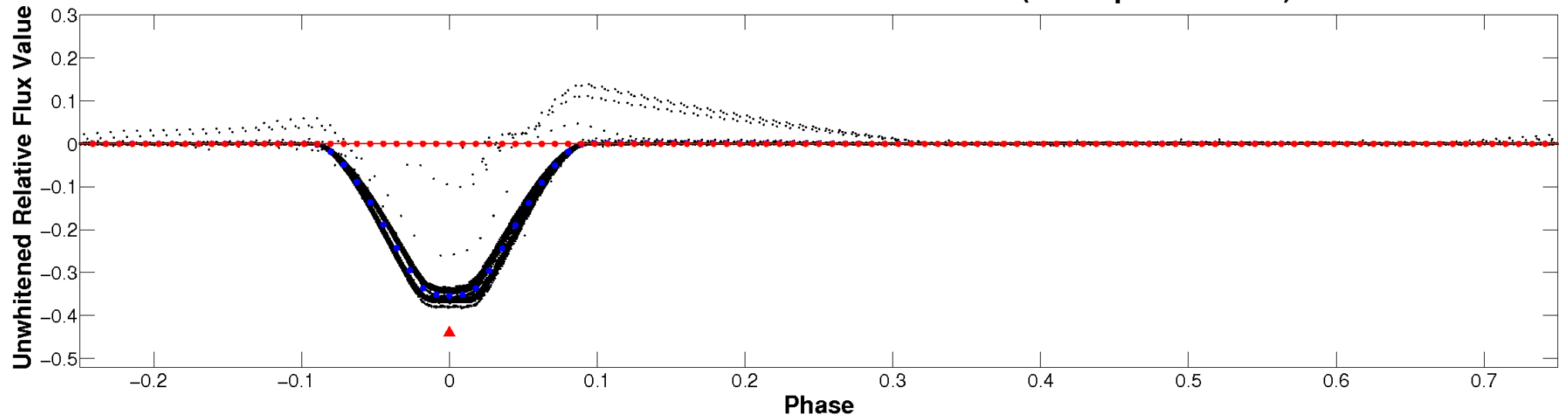
ALT Odd/Even

TCE 010208759-01



Non-Whitened Vs. Whitened Light Curve

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

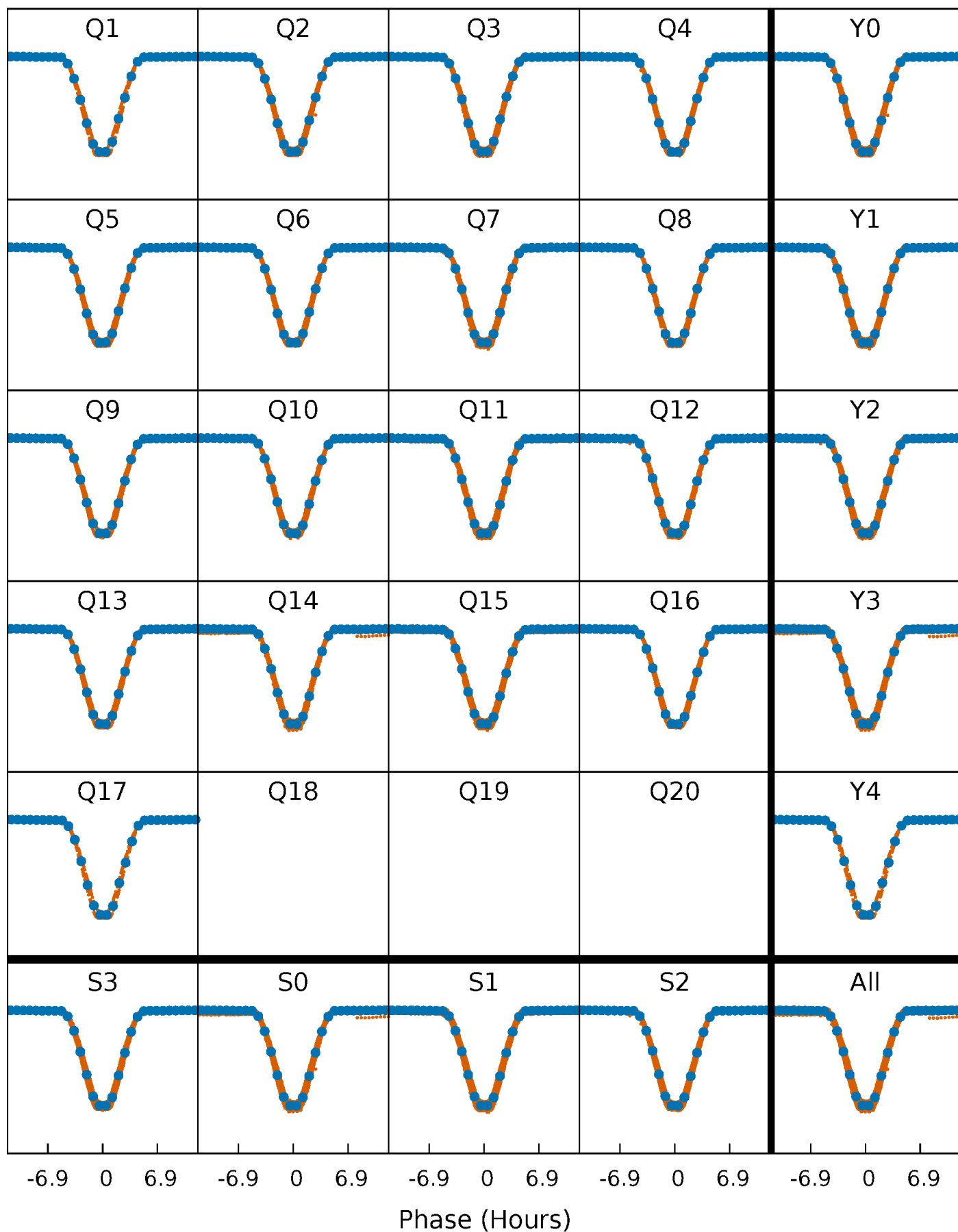


Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)



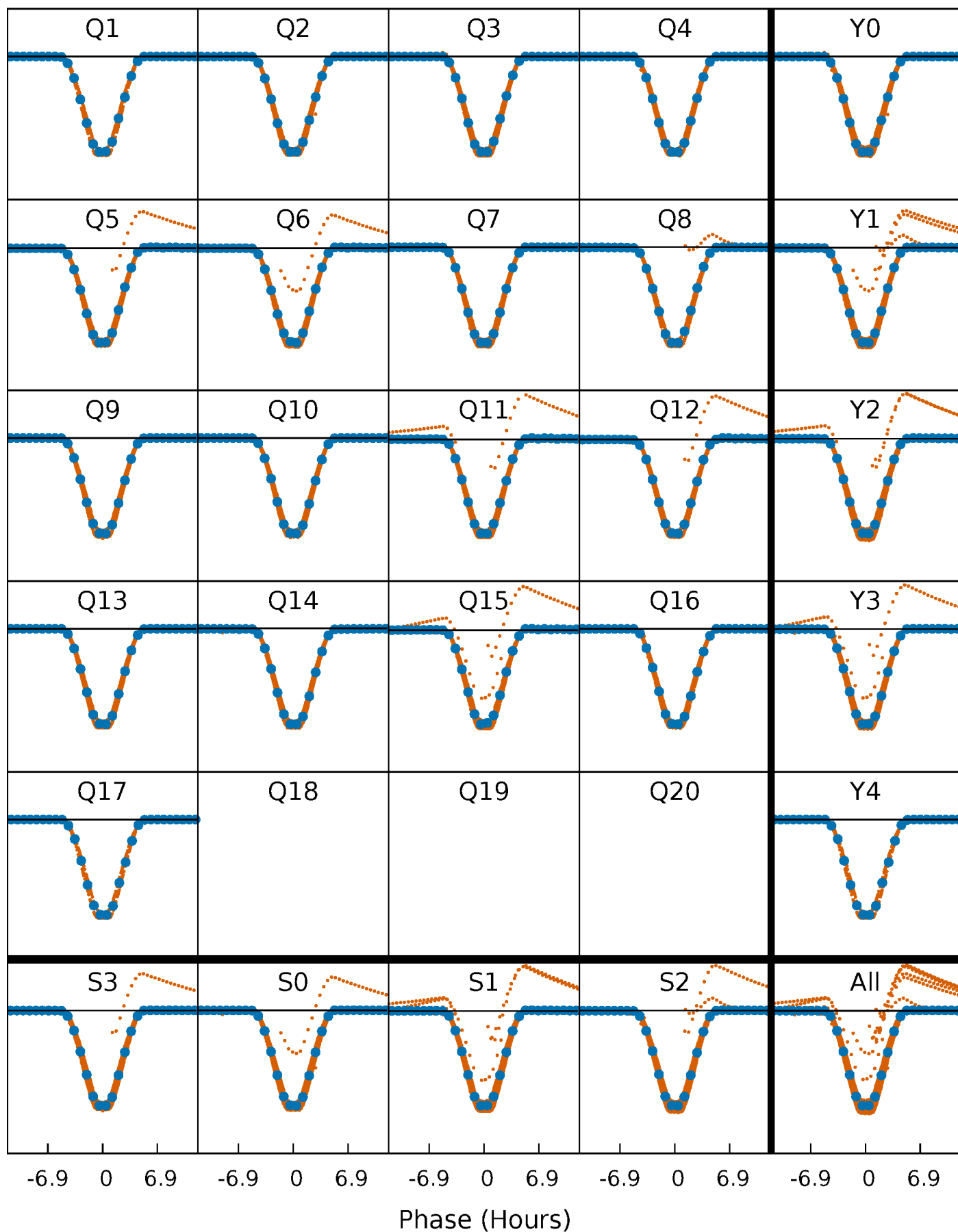
PDC Quarter-Phased Transit Curves

TCE 010208759-01 P= 2.287506 Days $T_0=132.358987$ (BKJD)



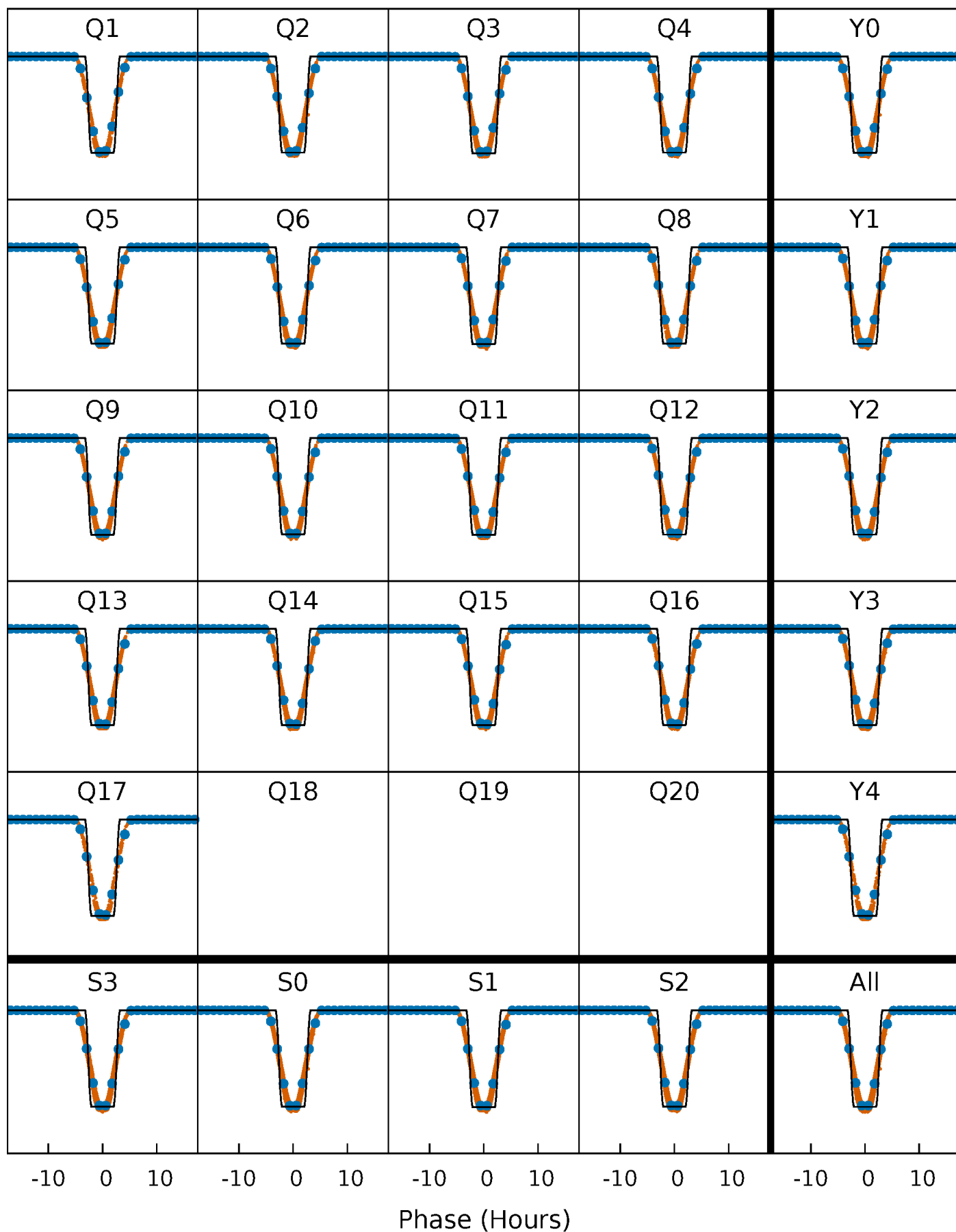
DV Quarter-Phased Transit Curves

TCE 010208759-01 P= 2.287506 Days $T_0=132.358987$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

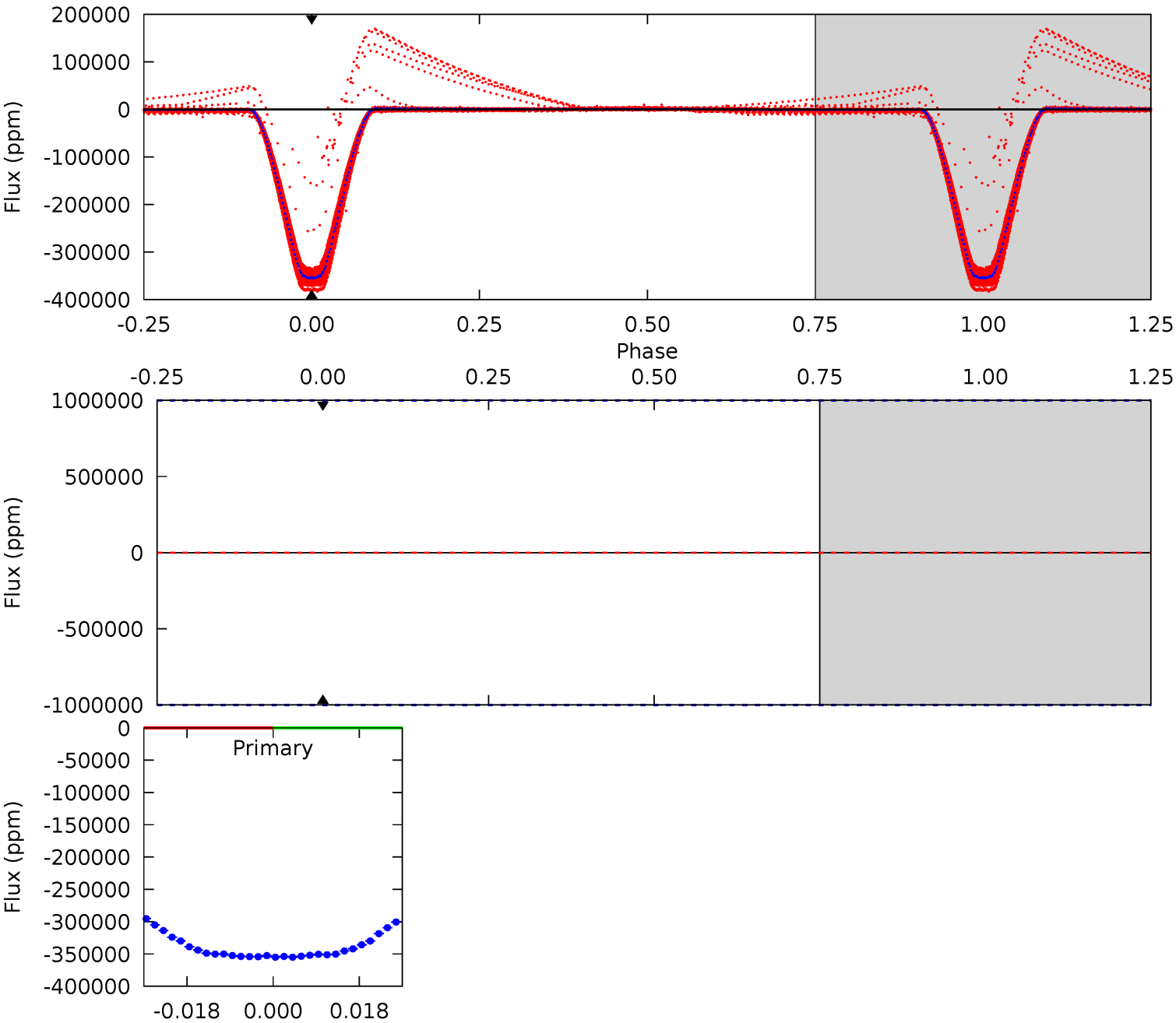
TCE 010208759-01 P= 2.287506 Days $T_0=132.359357$ (BKJD)



DV Model-Shift Uniqueness Test

010208759-01, P = 2.287506 Days, E = 130.071481 Days

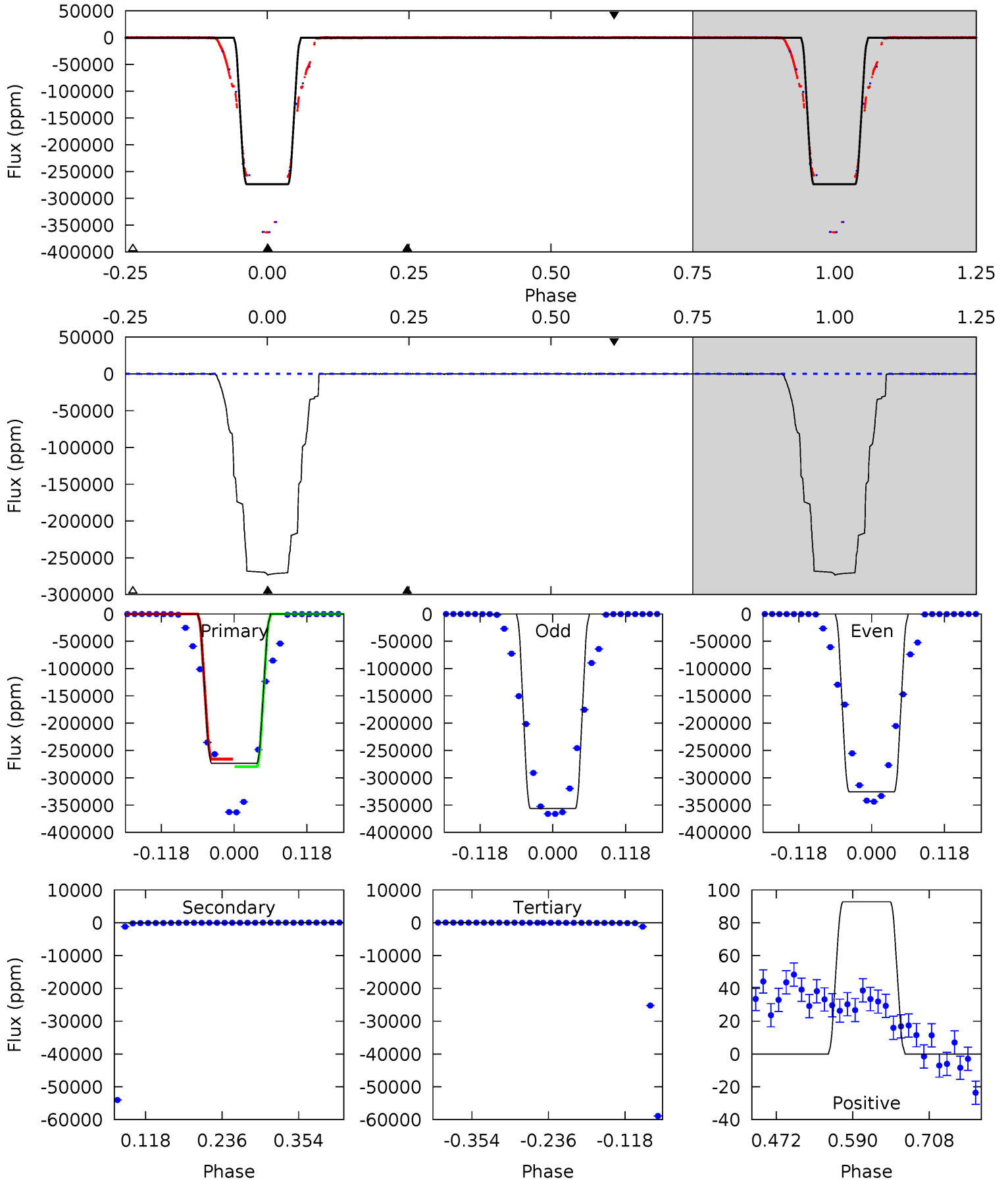
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010208759-01, P = 2.287506 Days, E = 130.071851 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12048	4.39	3.92	4.08	4.53	1.56	1.99	12044	12044	0.47	0.30	3231	1.01	0.00	0



Stellar Parameters For KIC 010208759

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6773^{+166}_{-261}	$4.306^{+0.056}_{-0.210}$	$0.210^{+0.200}_{-0.350}$	$1.391^{+0.468}_{-0.167}$	$1.427^{+0.181}_{-0.201}$	$0.746^{+0.229}_{-0.413}$
	+2%/-4%	+1%/-5%	+95%/-167%	+34%/-12%	+13%/-14%	+31%/-55%
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 010208759-01 / KOI 7295.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$67.03^{+20.24}_{-15.26}$	2560^{+185}_{-120}	-3153^{+9126}_{-2540}	$-0.289^{+19.849}_{-15.256}$
Alt.	-100 ± 23	$94.00^{+21.79}_{-18.54}$	2559^{+196}_{-132}	-2811^{+75}_{-120}	$0.009^{+0.005}_{-0.004}$

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 $A_{obs} \gg 1.0$

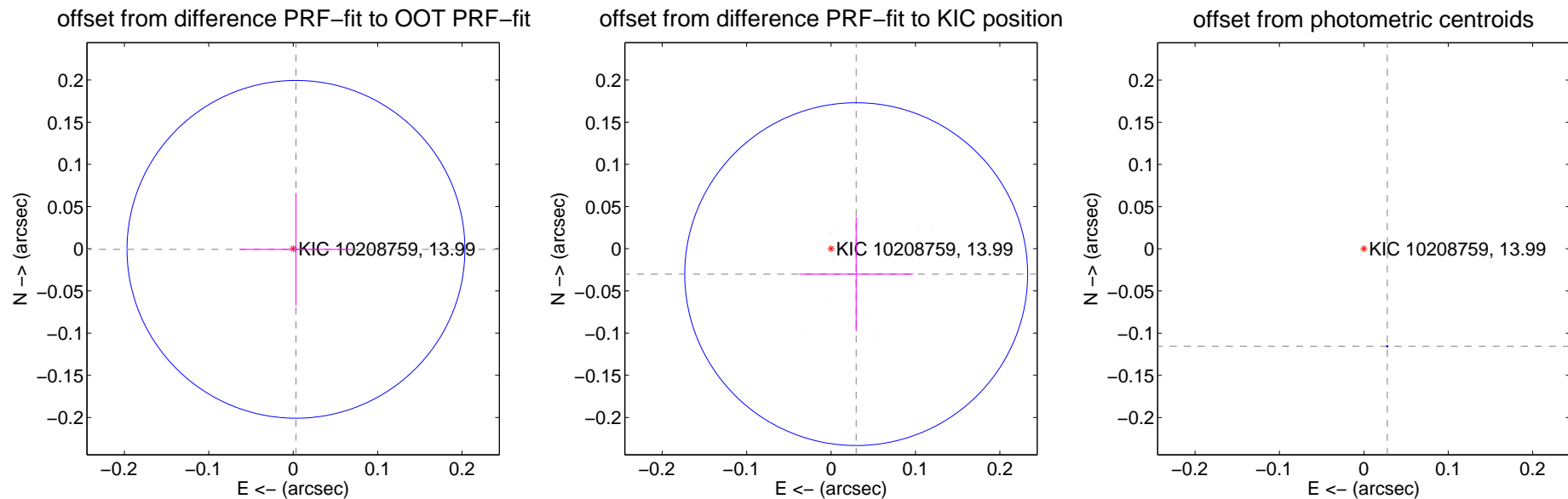
DV Centroid Data

Supplemental centroid analysis for 010208759-01. Kepler magnitude: 13.99. Transit SNR -1.00

There are 17 quarters with good PRF difference image offsets

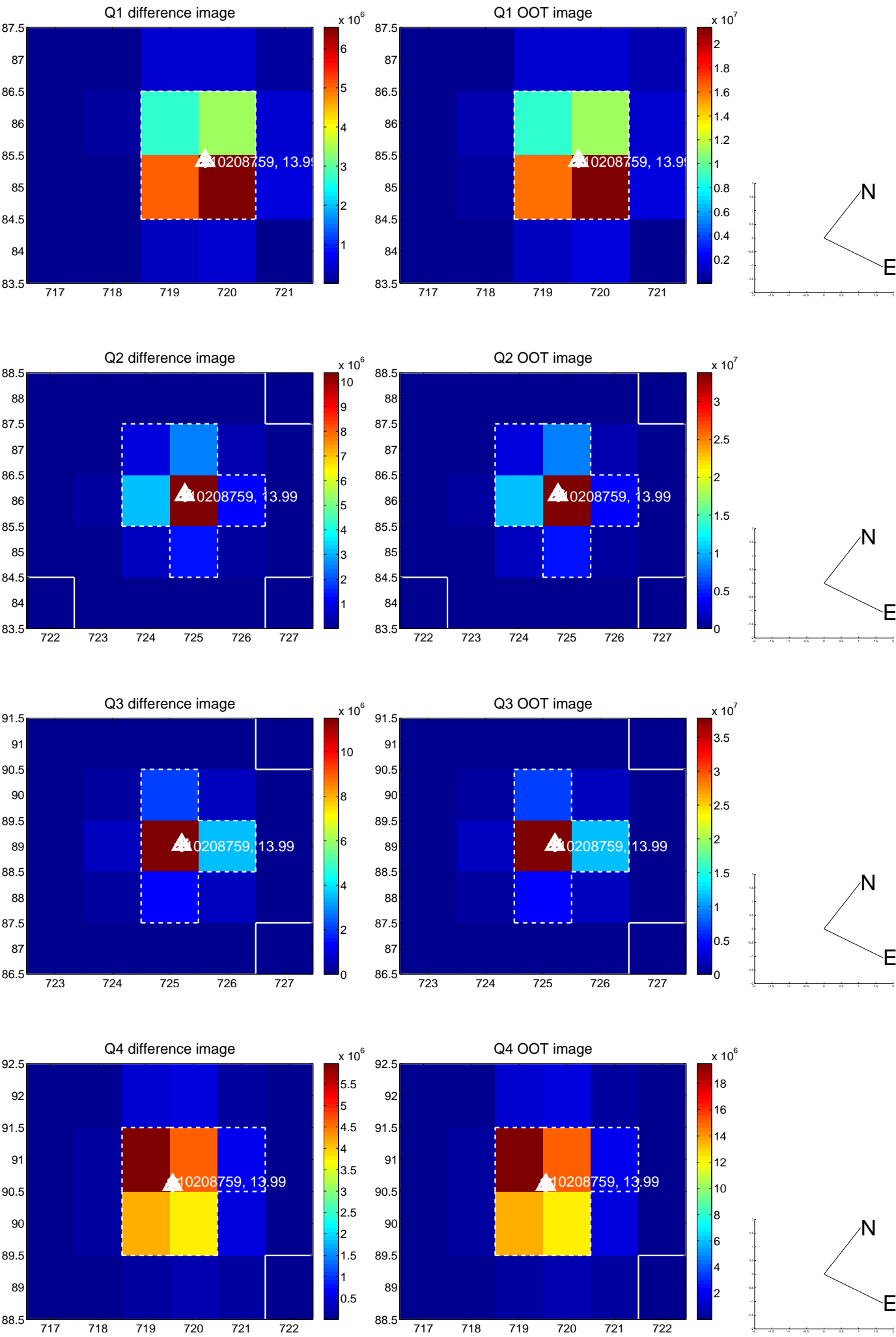
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.003 ± 0.067	0.05	-0.003 ± 0.067	-0.001 ± 0.067
PRF-fit source offset from KIC position	0.042 ± 0.068	0.63	-0.030 ± 0.068	-0.030 ± 0.068
photometric centroid source offset	0.12 ± 0.00	401.29	-0.03 ± 0.00	-0.12 ± 0.00

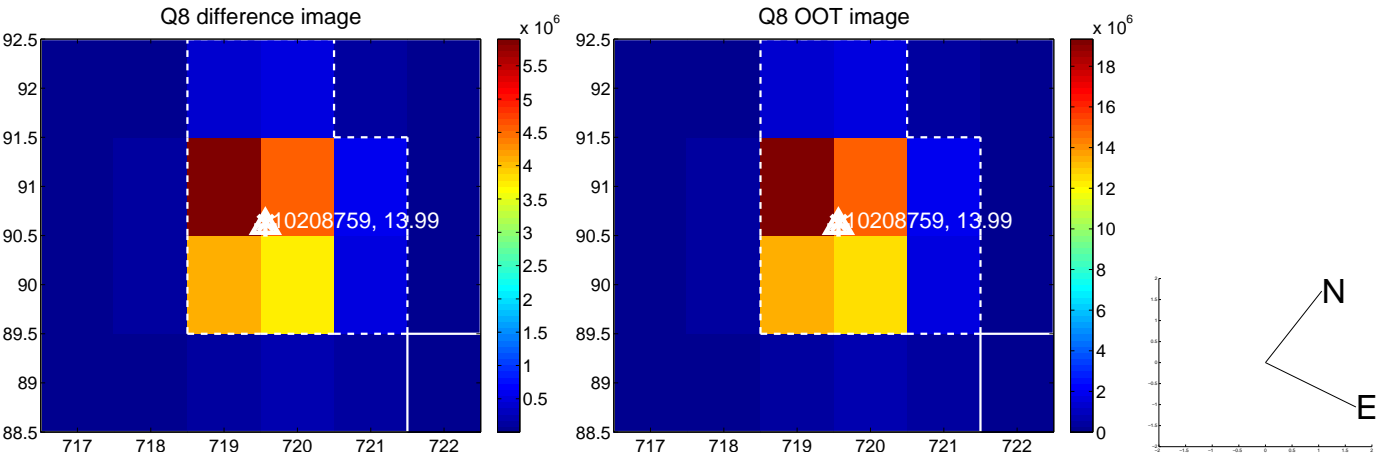
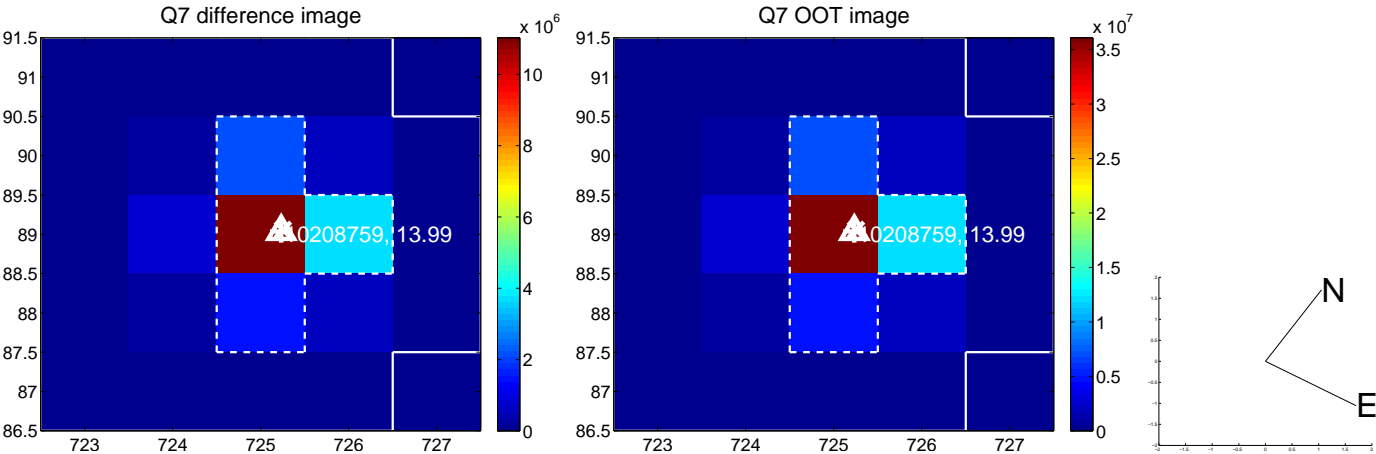
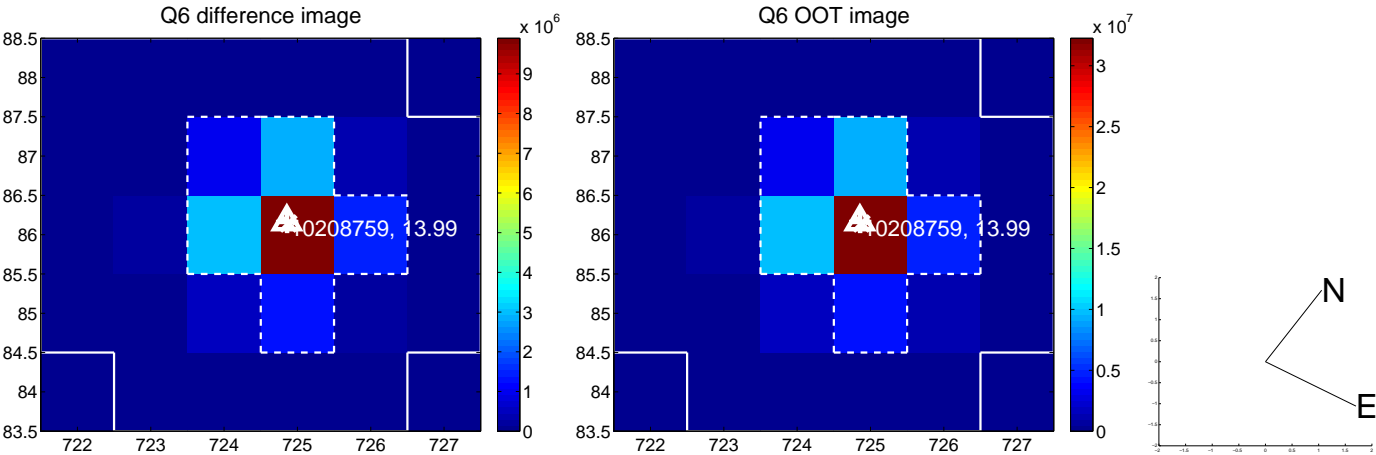
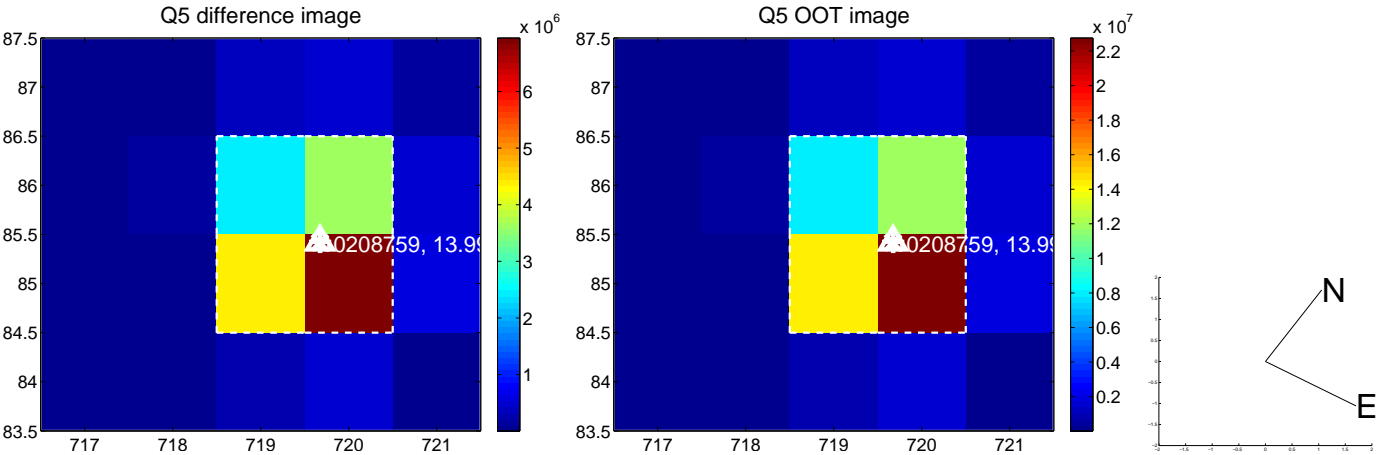


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

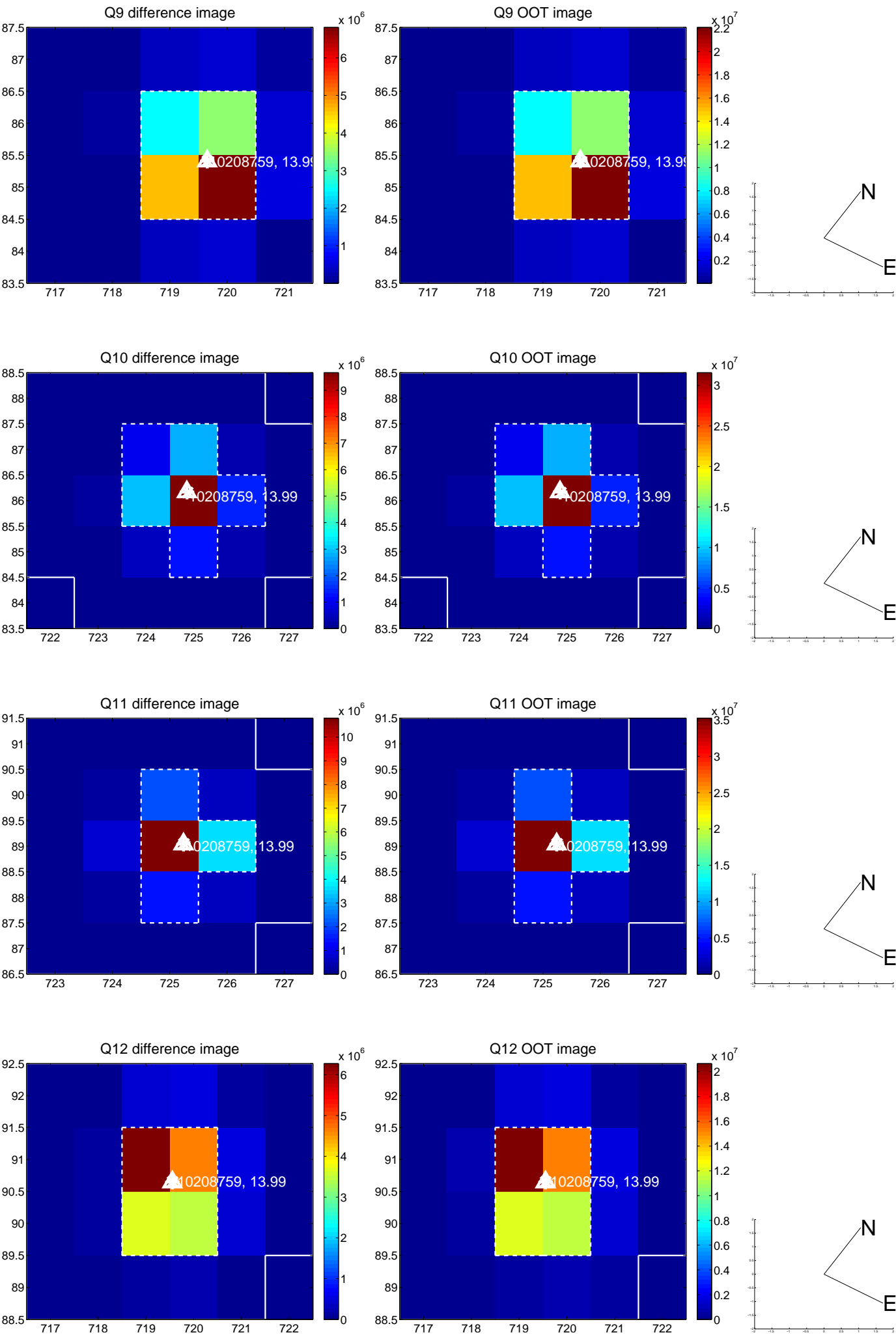
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



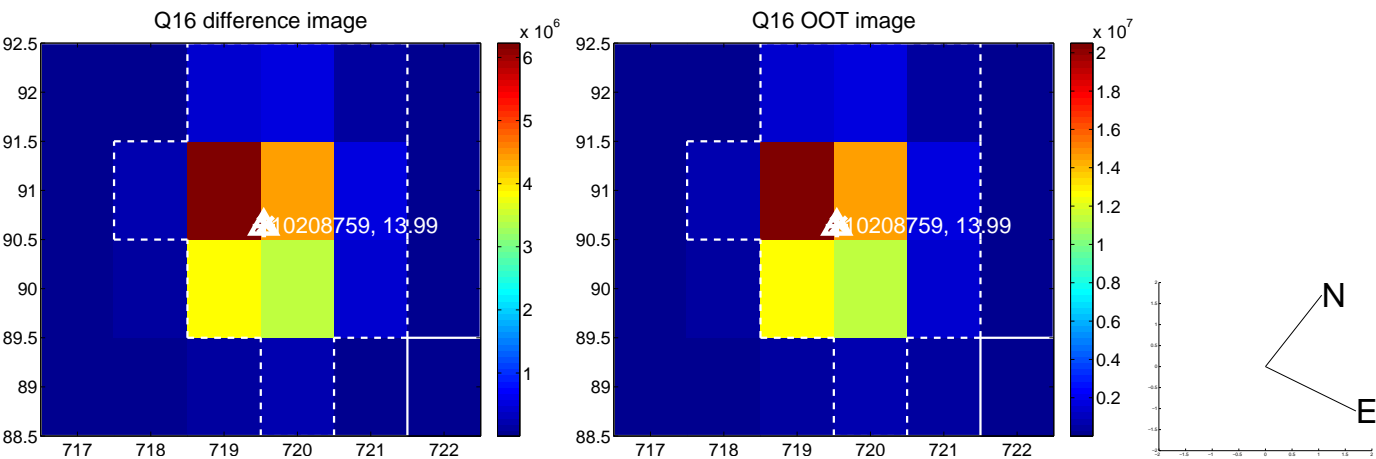
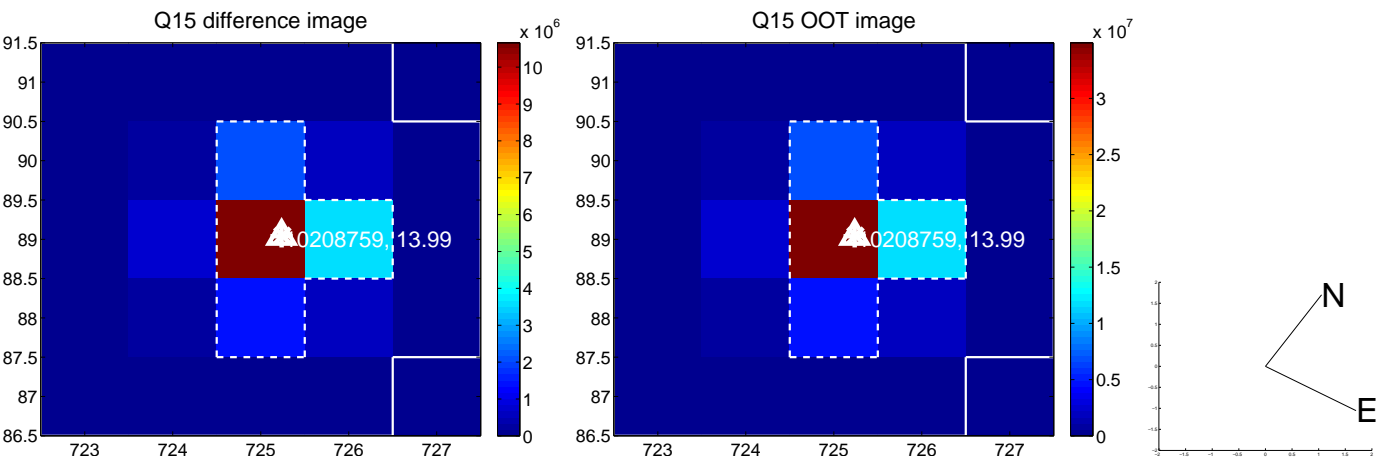
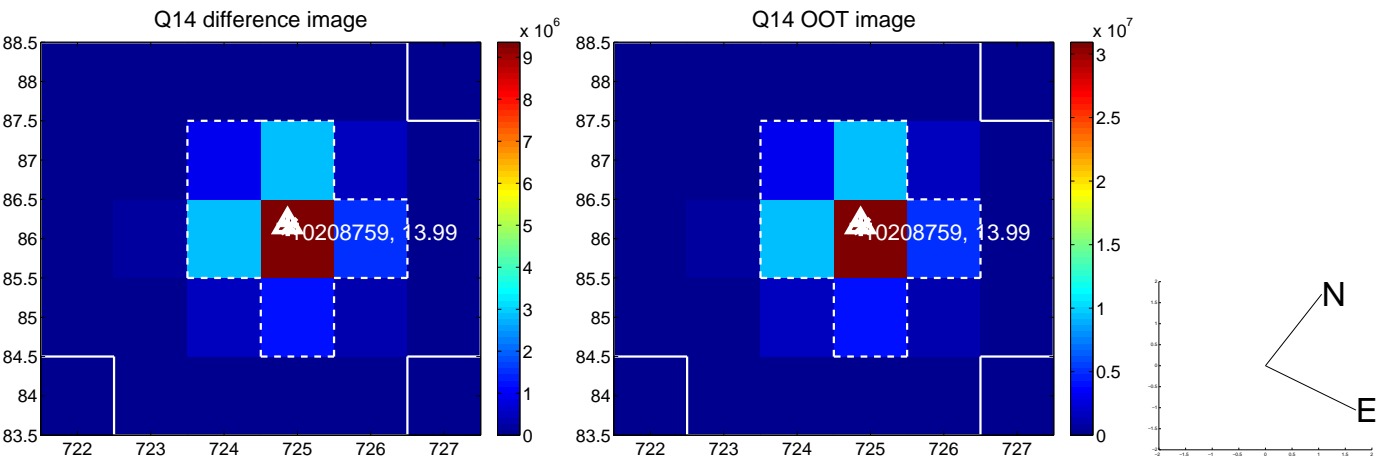
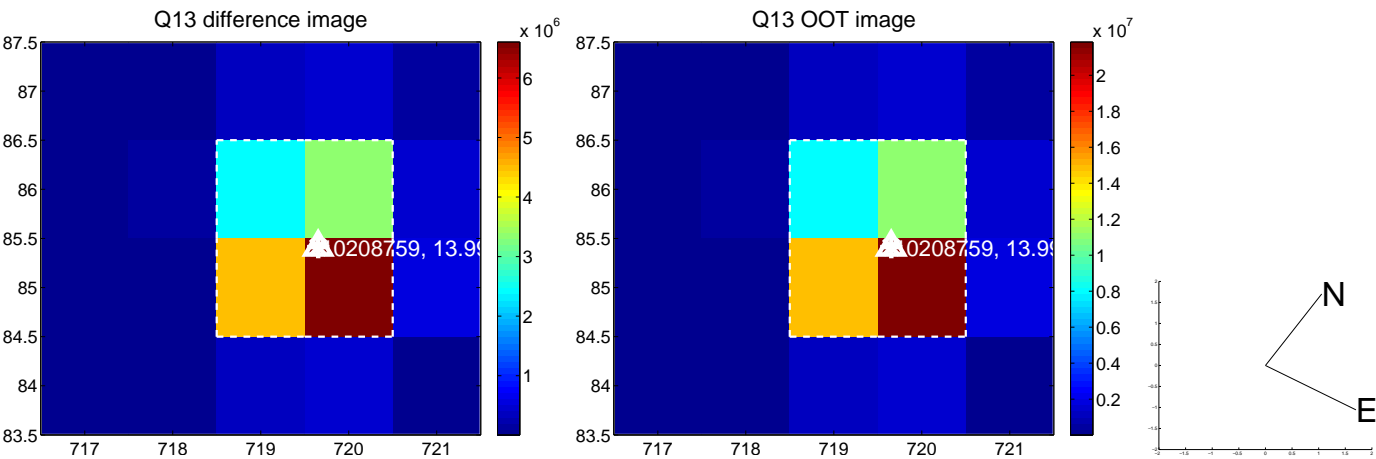
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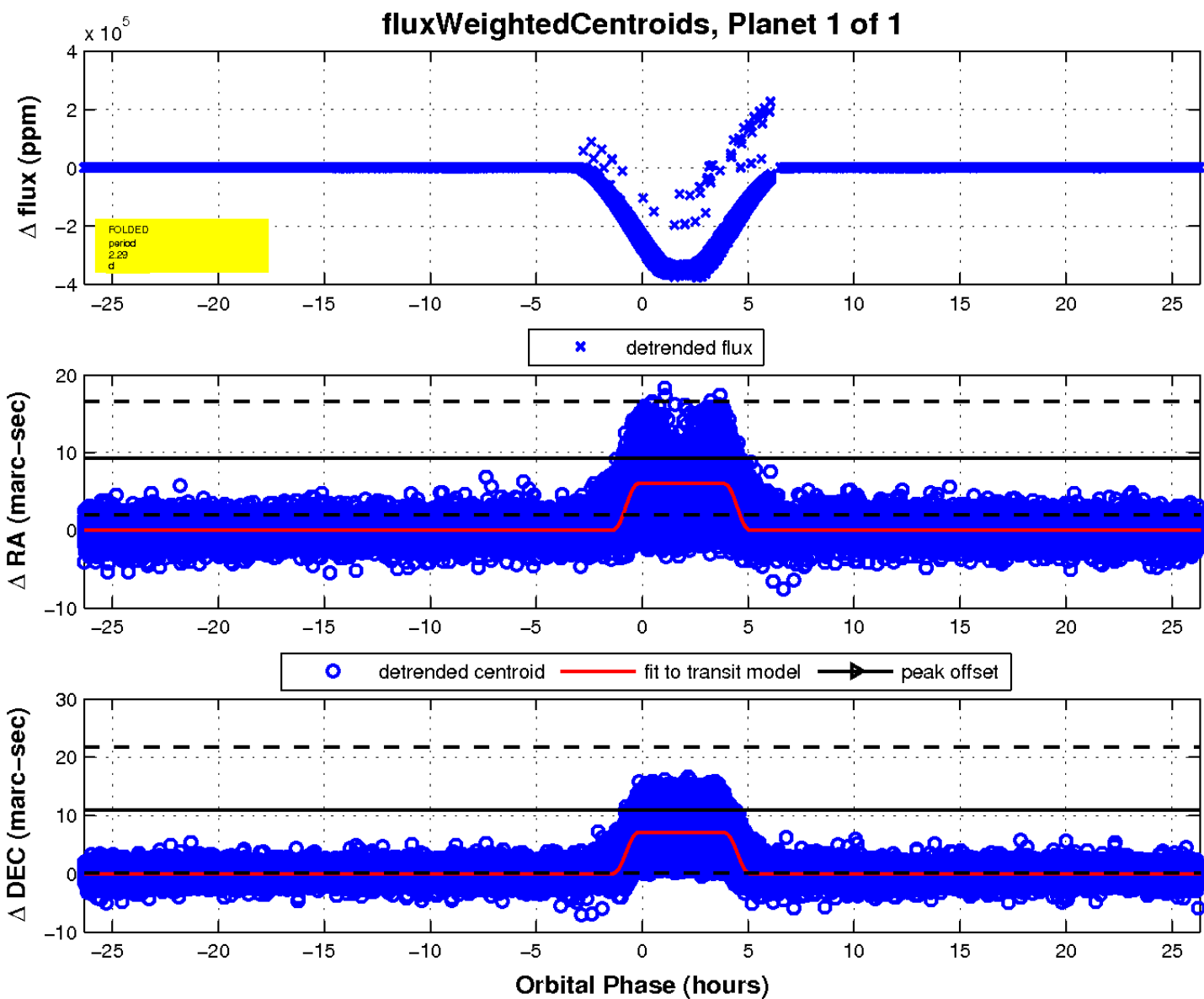
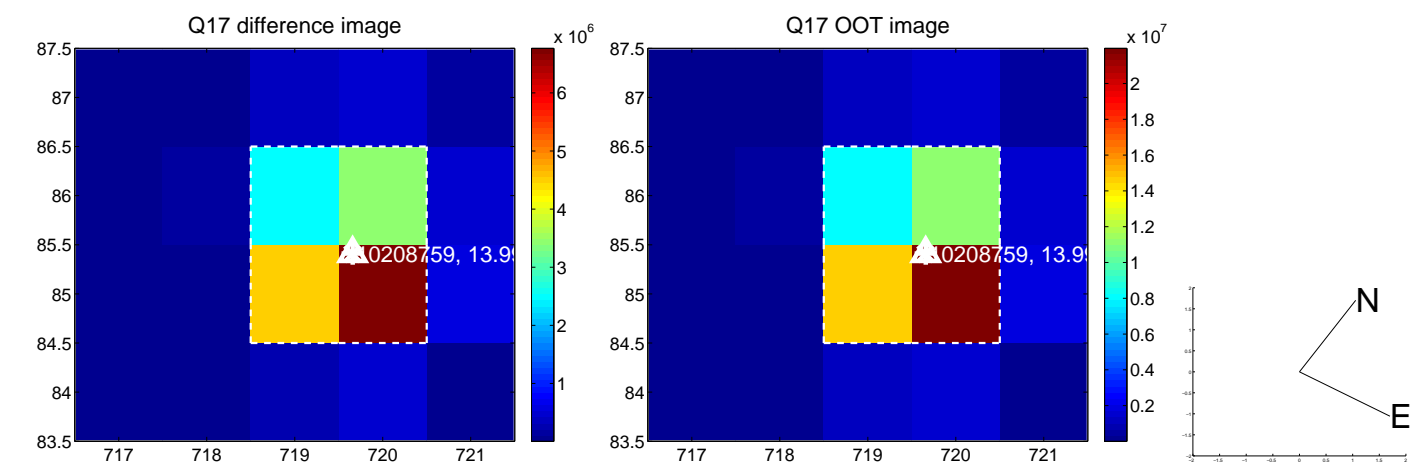
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UKIRT Image

Declination

