

KIC 011183399

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})
011183399-01	OBS	No	0.869453	131.895063	5.5	7.312	7.2	1.7	1.90	7474	0.47	24202.01

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011183399-01	OBS	FP	0.00	1	0	0	0	SWEET_NTL — LPP_DV — LPP_ALT — 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.

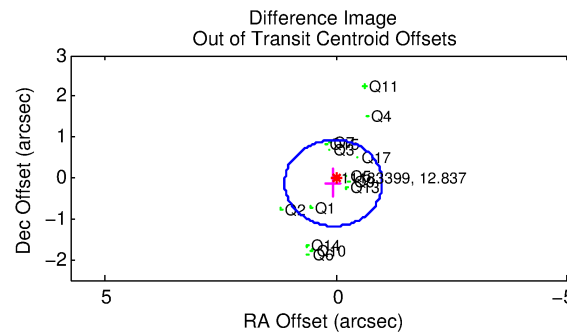
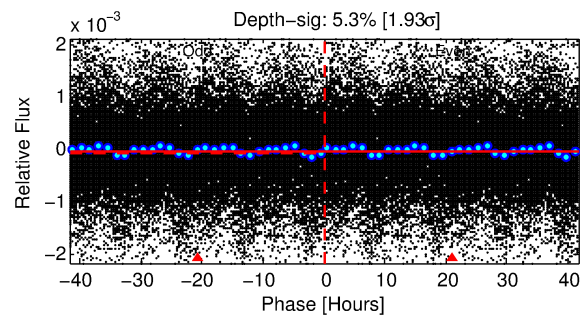
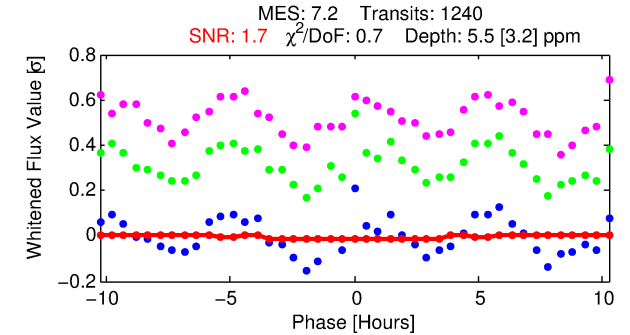
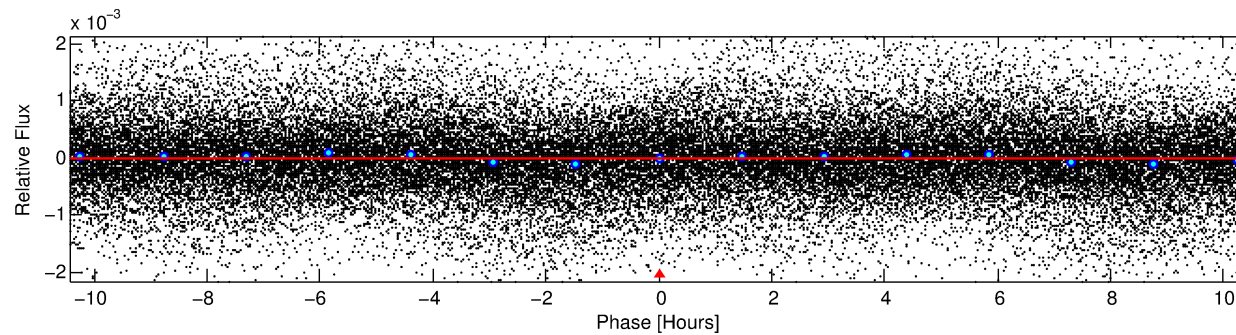
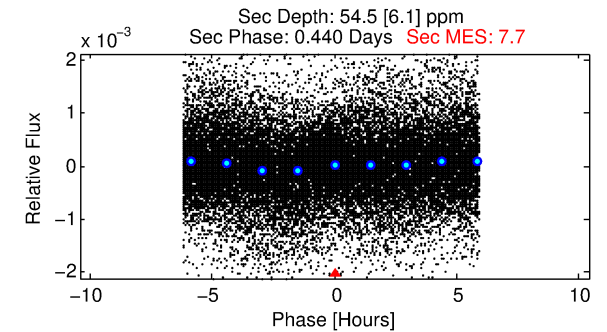
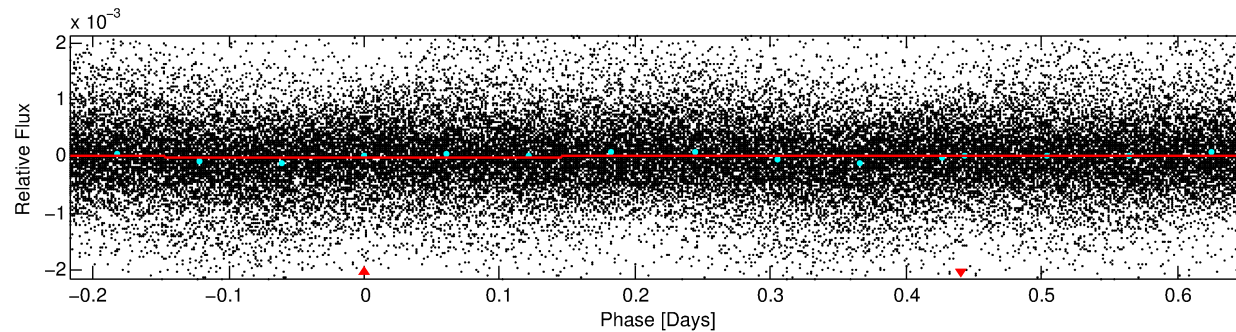
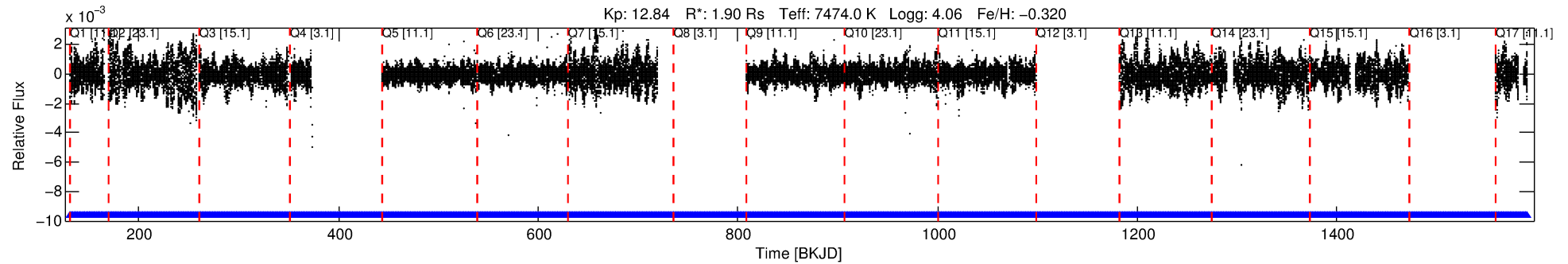
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011183399-01

No Significant Match Found

DV One-Page Summary

KIC: 11183399 Candidate: 1 of 1 Period: 0.869 d



DV Fit Results:

Period = 0.86945 [0.00008] d
Epoch = 131.8951 [0.0159] BKJD
Rp/R* = 0.0023 [0.0050]
a/R* = 1.07 [1.80]
b = 0.70 [10.29]
Seff = 24202.01 [9666.08]
Teq = 3180 [318] K
Rp = 0.47 [1.05] Re
a = 0.0204 [0.0049] AU
Ag = 55.20 [242.80] [0.22σ]
Teffp = 13403 [14700] K [0.70σ]

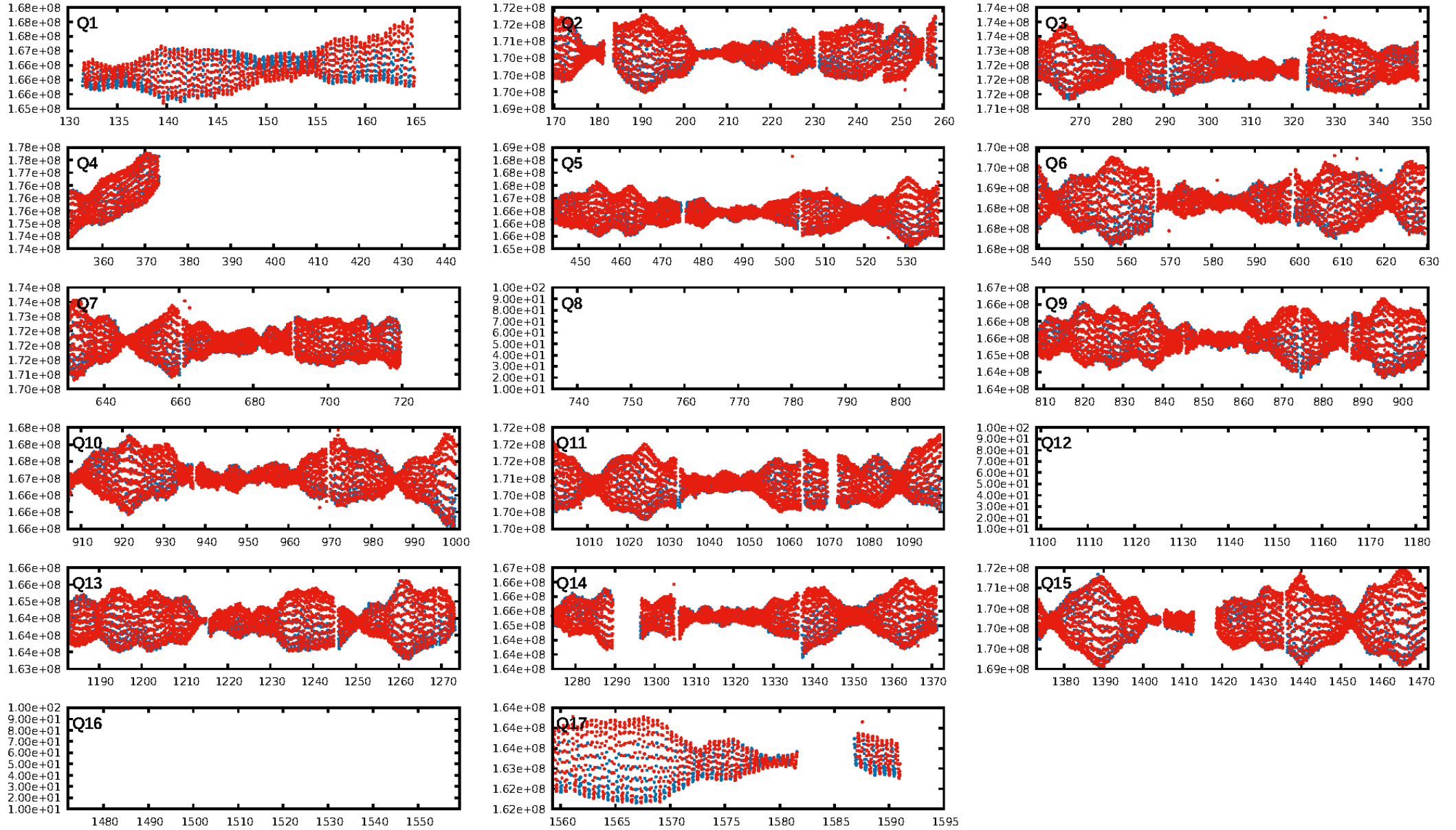
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [1146/1146]
GhostDiagnostic-chr: 0.6854
Centroid-sig: N/A
Centroid-so: 0.909 arcsec [0.38σ]
OotOffset-rm: 0.141 arcsec [0.40σ]
KicOffset-rm: 0.091 arcsec [0.28σ]
OotOffset-st: 4/4/1/5 [14]
KicOffset-st: 4/4/1/5 [14]
DiffImageQuality-fgm: 1.00 [14/14]
DiffImageOverlap-fno: 1.00 [14/14]

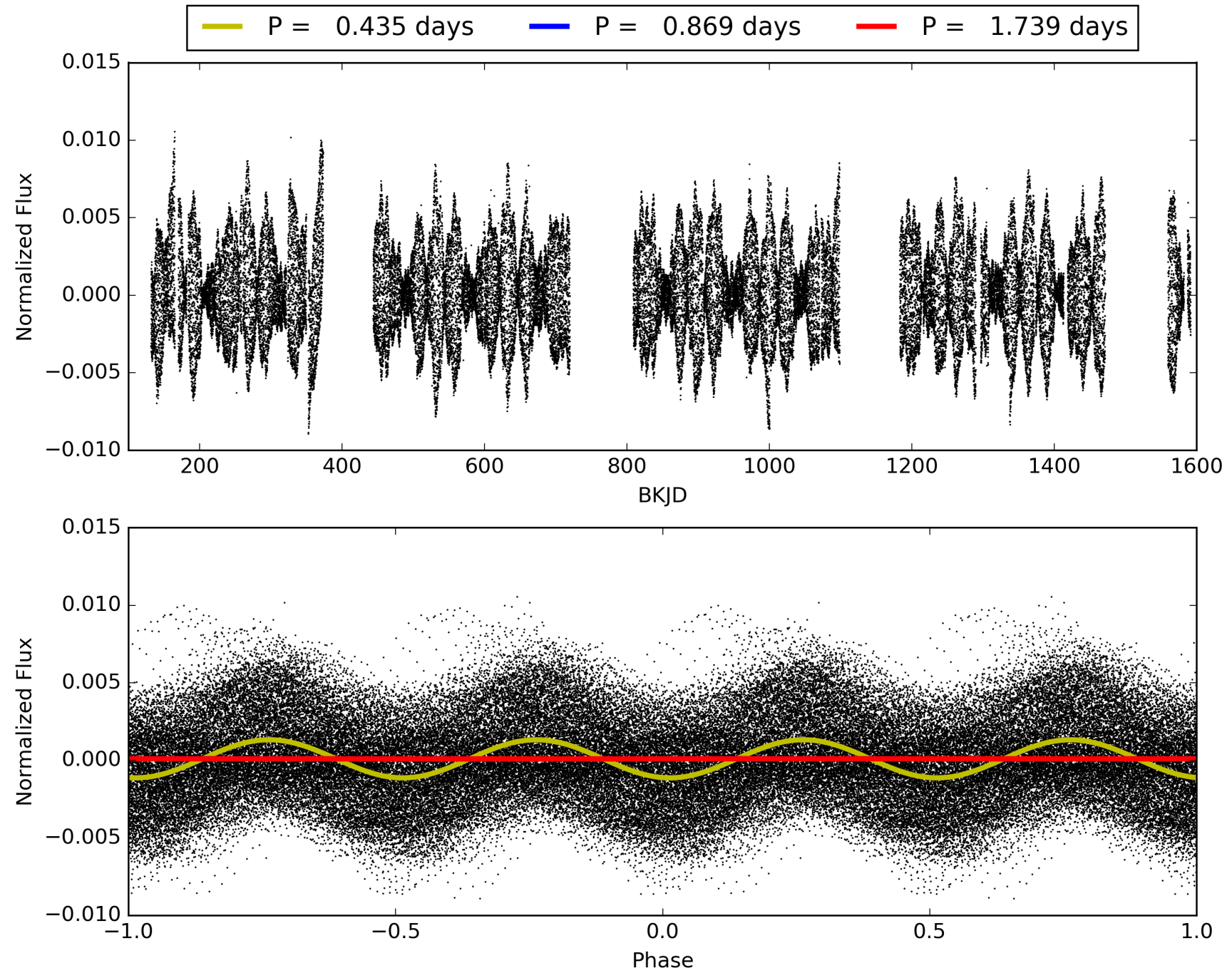
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 03:50:40 Z

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

TCE 011183399-01, PDC Light Curves

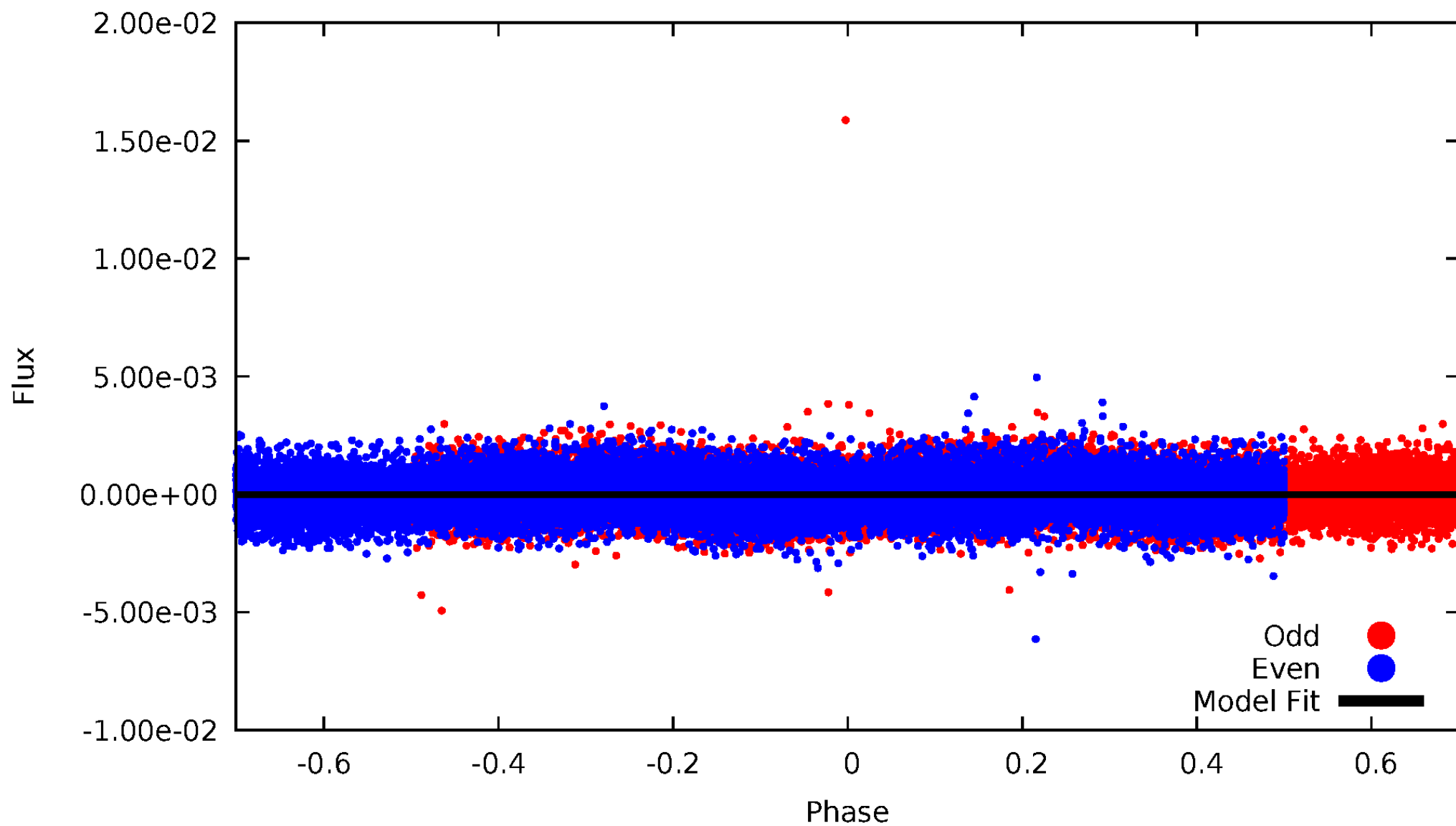


TCE 011183399-01



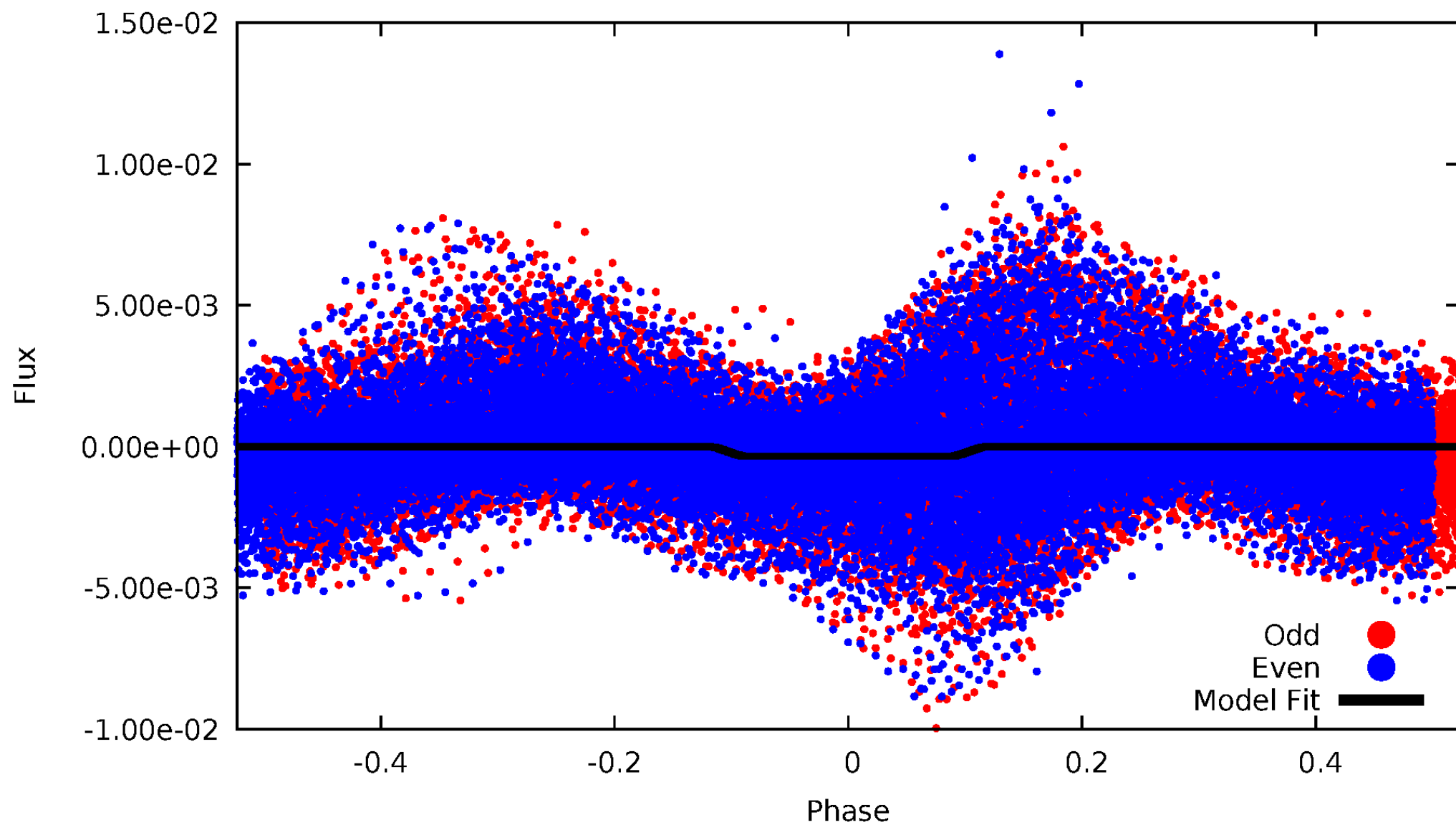
DV Odd/Even

TCE 011183399-01



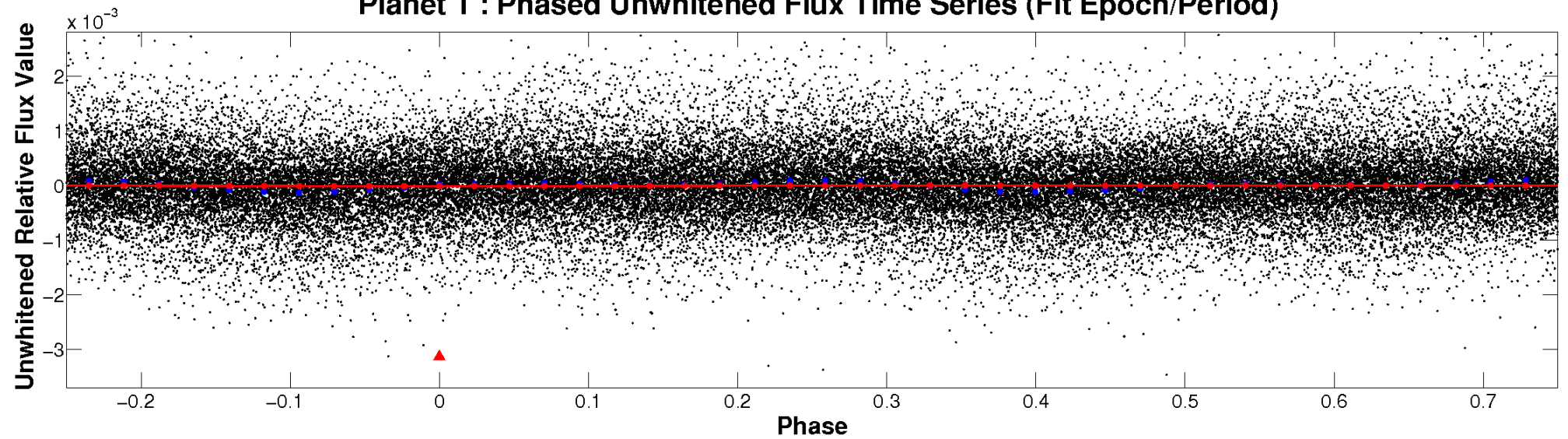
ALT Odd/Even

TCE 011183399-01

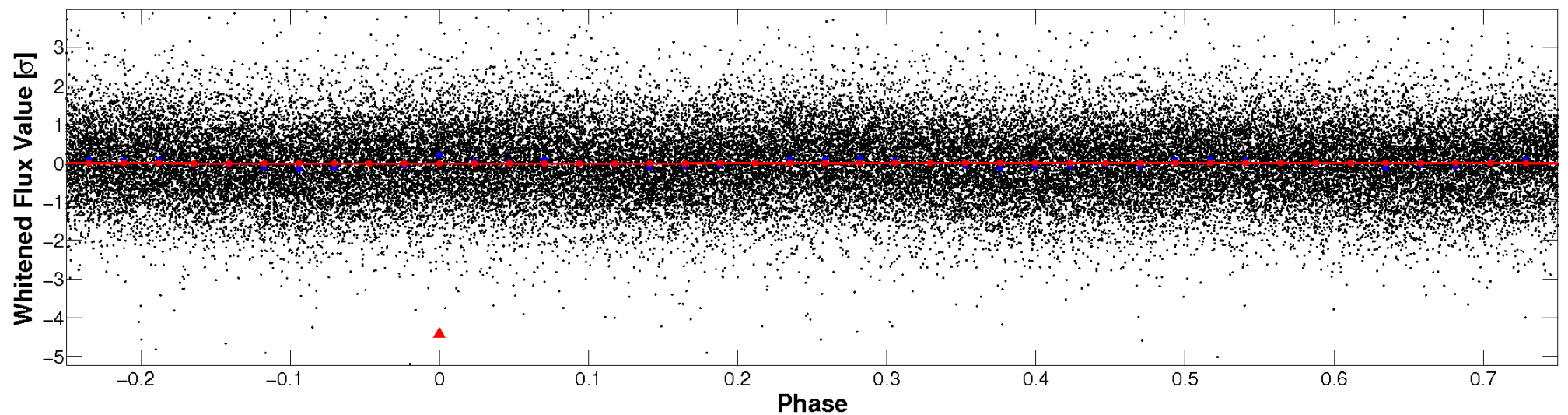


Non-Whitened Vs. Whitened Light Curve

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

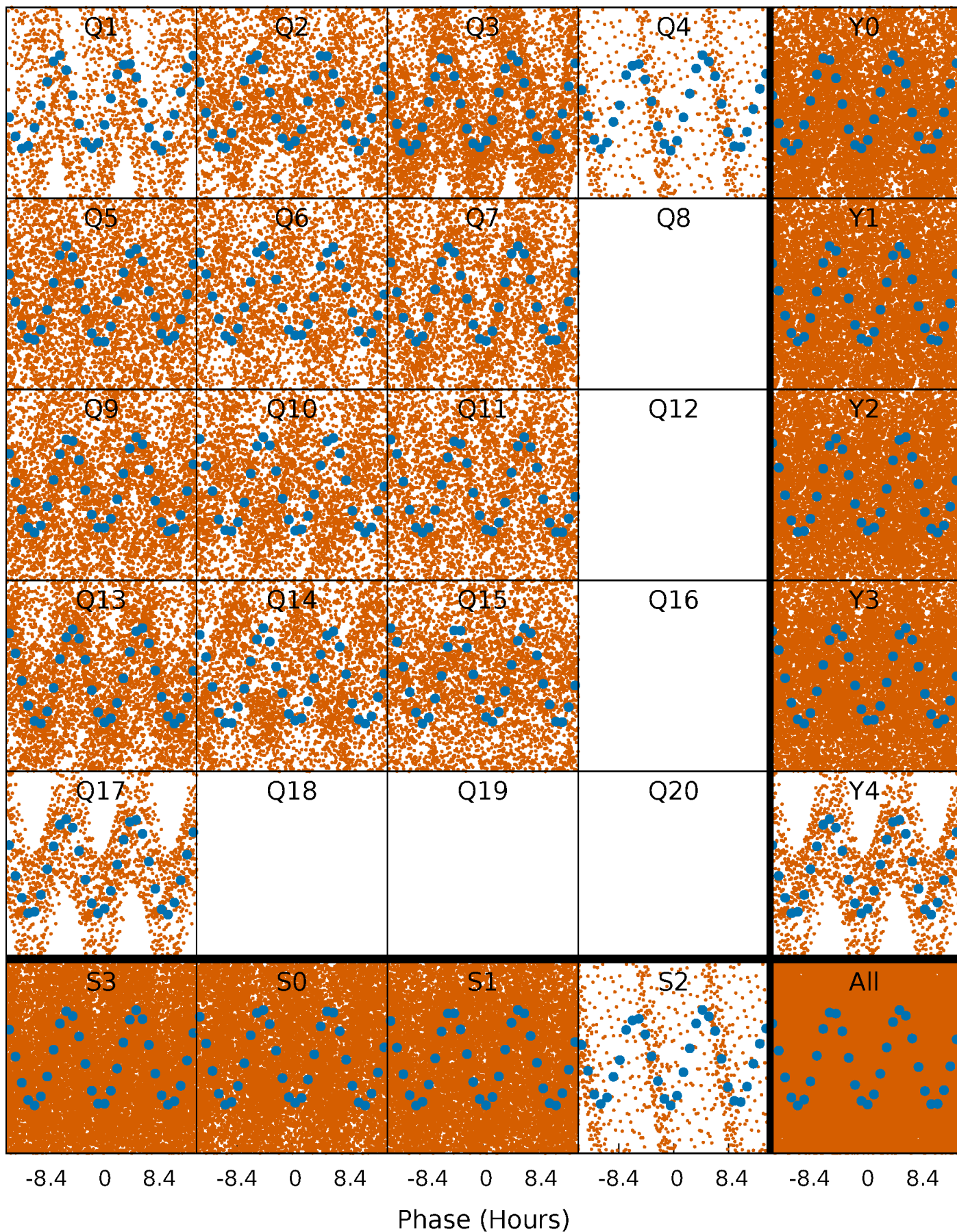


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



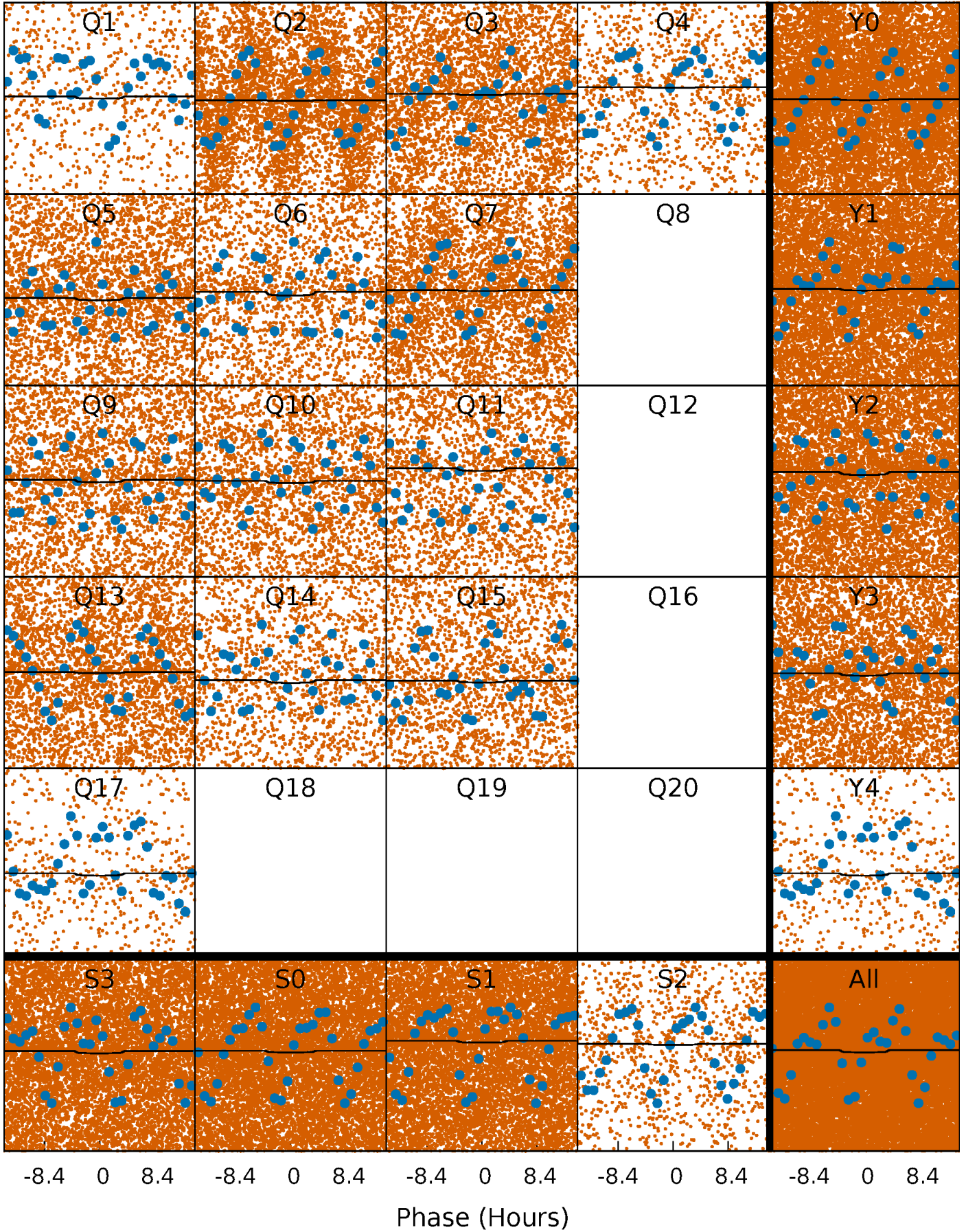
PDC Quarter-Phased Transit Curves

TCE 011183399-01 P= 0.869453 Days $T_0=131.895063$ (BKJD)



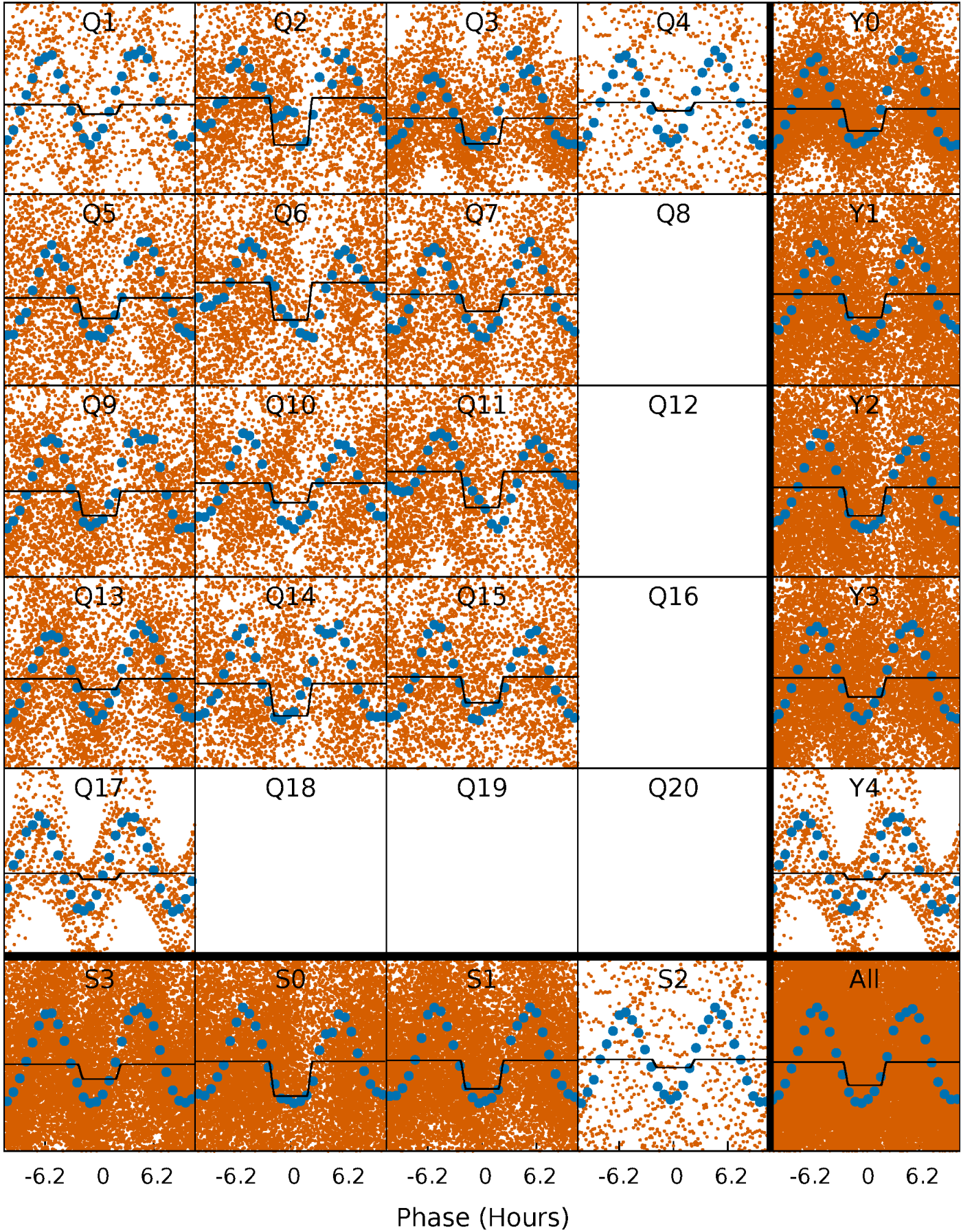
DV Quarter-Phased Transit Curves

TCE 011183399-01 P= 0.869453 Days $T_0=131.895063$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

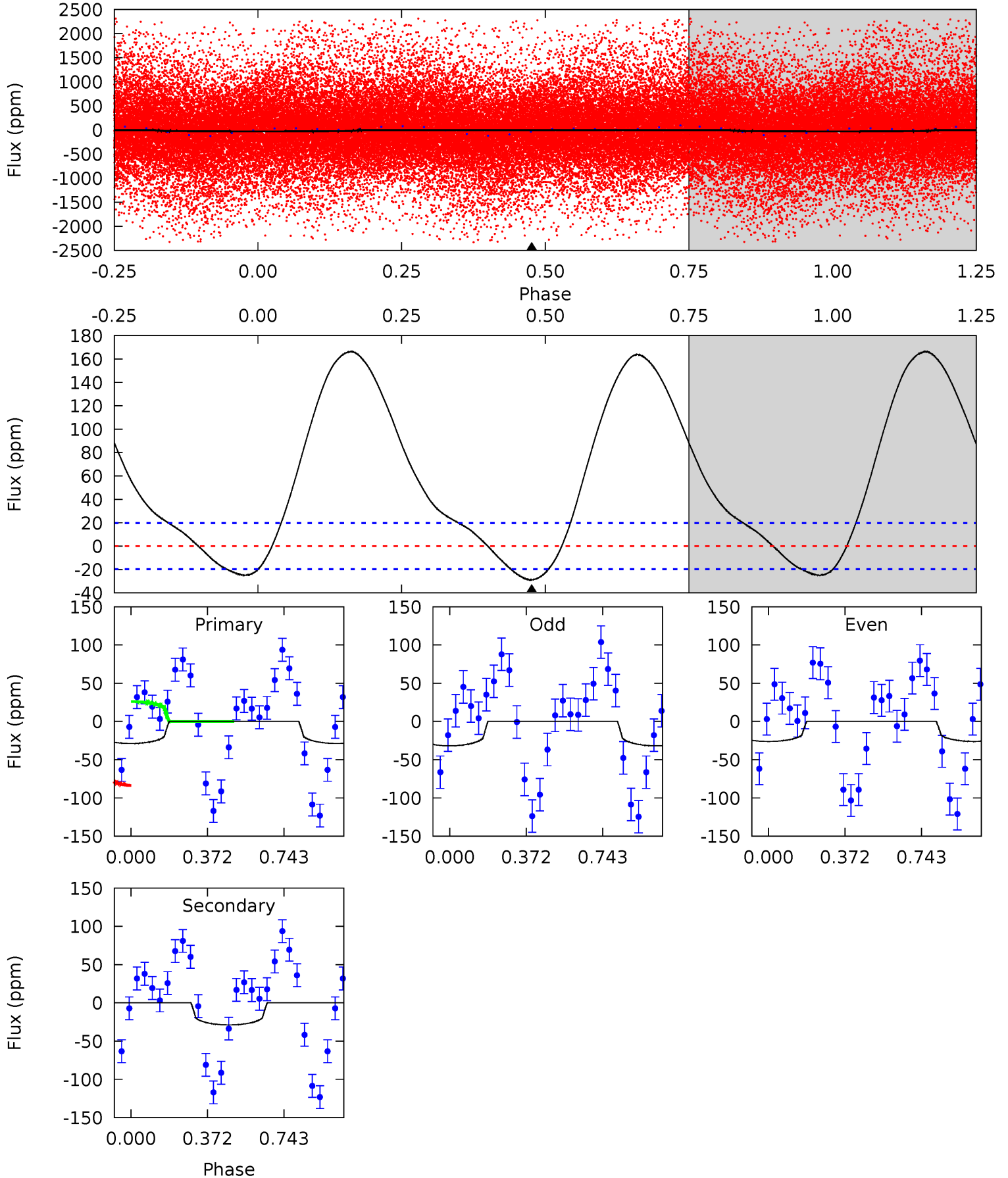
TCE 011183399-01 P= 0.869505 Days $T_0=131.872585$ (BKJD)



DV Model-Shift Uniqueness Test

011183399-01, $P = 0.869453$ Days, $E = 131.025610$ Days

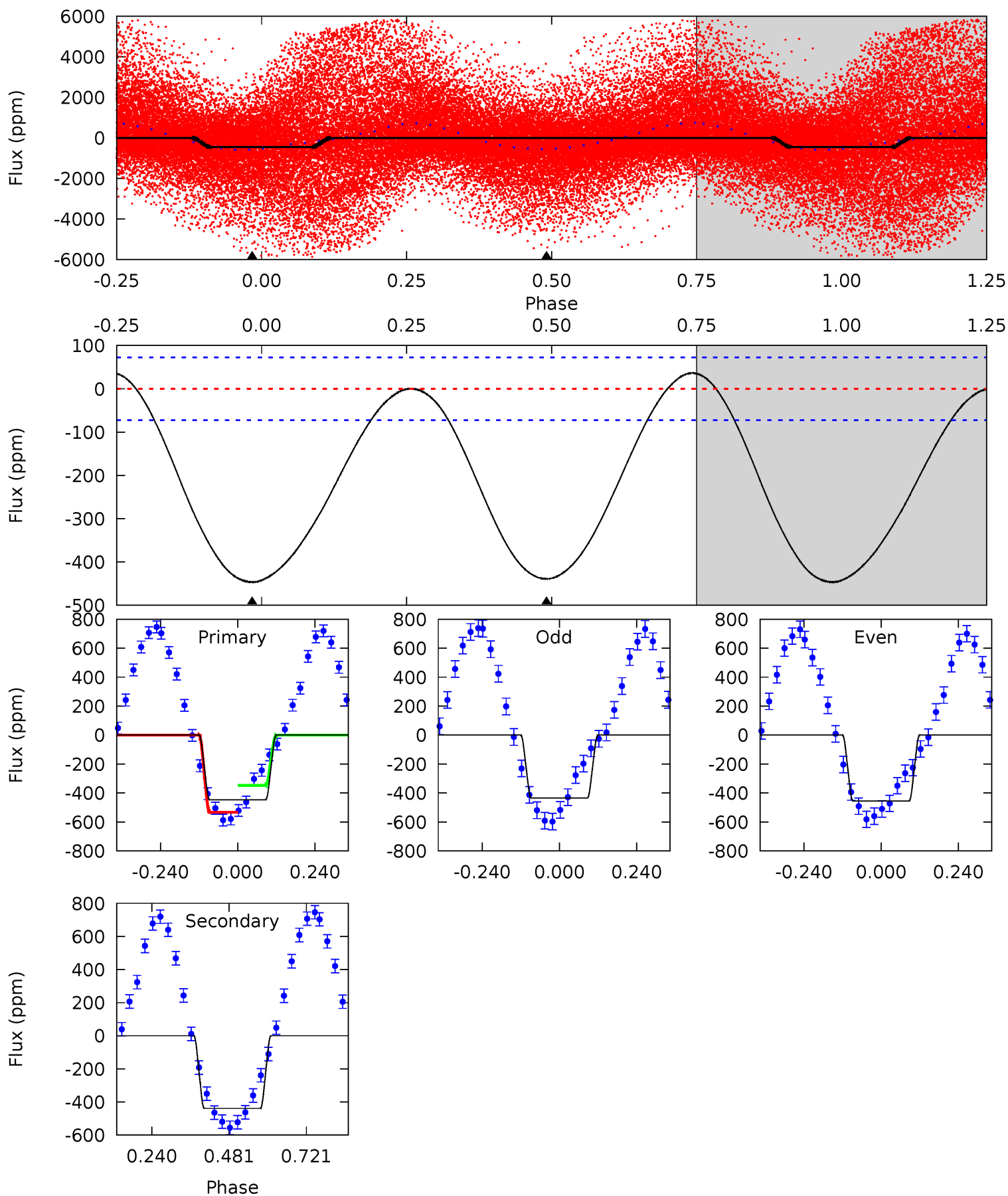
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.27	6.27	0	0	4.28	0.89	8.52	6.27	6.27	6.27	6.27	0.62	0.70	0.85	6.35



Alt Model-Shift Uniqueness Test

011183399-01, P = 0.869505 Days, E = 131.003080 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.0	26.5	0	0	4.38	1.17	1.41	27.0	27.0	26.5	26.5	0.62	2.02	0.08	5.20



Stellar Parameters For KIC 011183399

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7474^{+235}_{-314}	$4.056^{+0.204}_{-0.167}$	$-0.320^{+0.250}_{-0.350}$	$1.895^{+0.518}_{-0.518}$	$1.489^{+0.221}_{-0.245}$	$0.308^{+0.356}_{-0.143}$
	+3%/-4%	+5%/-4%	+78%/-109%	+27%/-27%	+15%/-16%	+115%/-46%
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 011183399-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-29 ± 5	$0.90^{+0.79}_{-0.63}$	4428^{+315}_{-349}	8441^{+15136}_{-2709}	$8.245^{+76.637}_{-6.038}$
Alt.	-439 ± 17	$3.85^{+1.17}_{-1.21}$	4406^{+345}_{-320}	7876^{+1951}_{-1174}	$6.759^{+7.211}_{-2.809}$

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 $A_{obs} \gg 1.0$

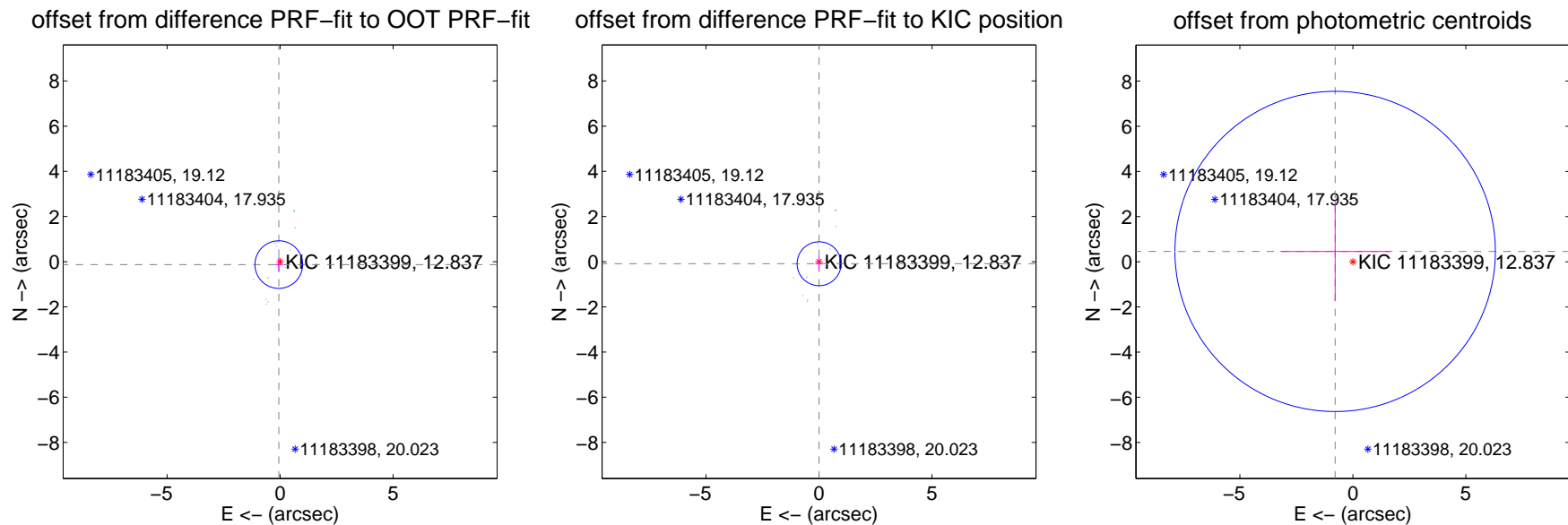
DV Centroid Data

Supplemental centroid analysis for 011183399-01. Kepler magnitude: 12.84. Transit SNR 1.70

There are 14 quarters with good PRF difference image offsets

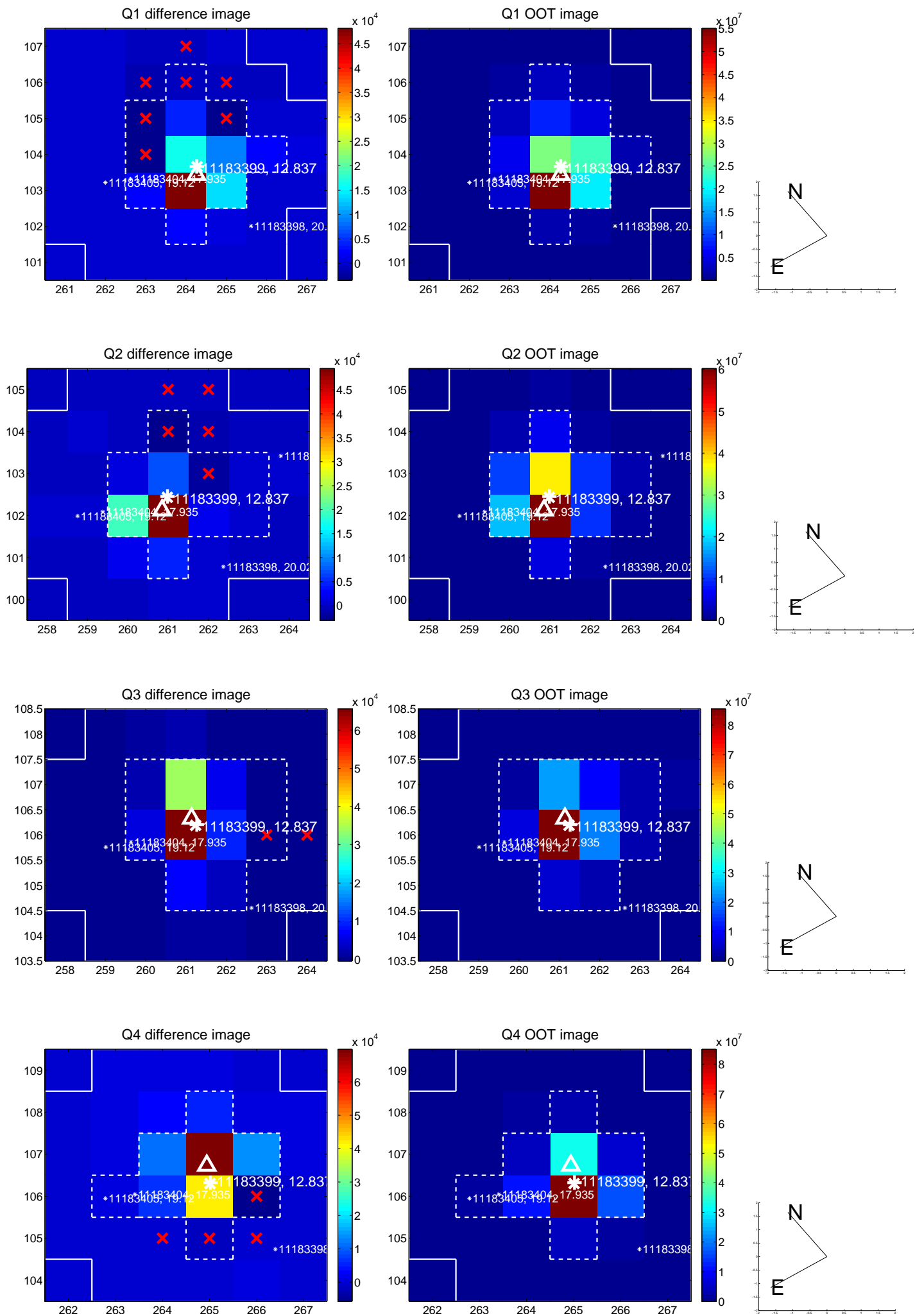
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.141 ± 0.351	0.40	0.058 ± 0.152	-0.128 ± 0.336
PRF-fit source offset from KIC position	0.091 ± 0.324	0.28	-0.004 ± 0.163	-0.091 ± 0.324
photometric centroid source offset	0.91 ± 2.36	0.38	0.78 ± 2.42	0.46 ± 2.19

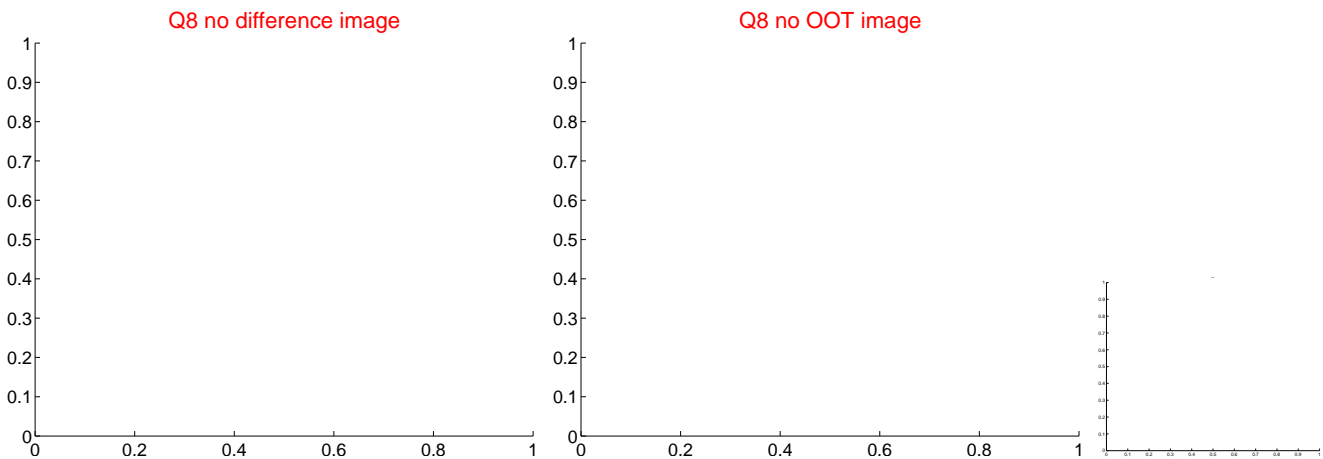
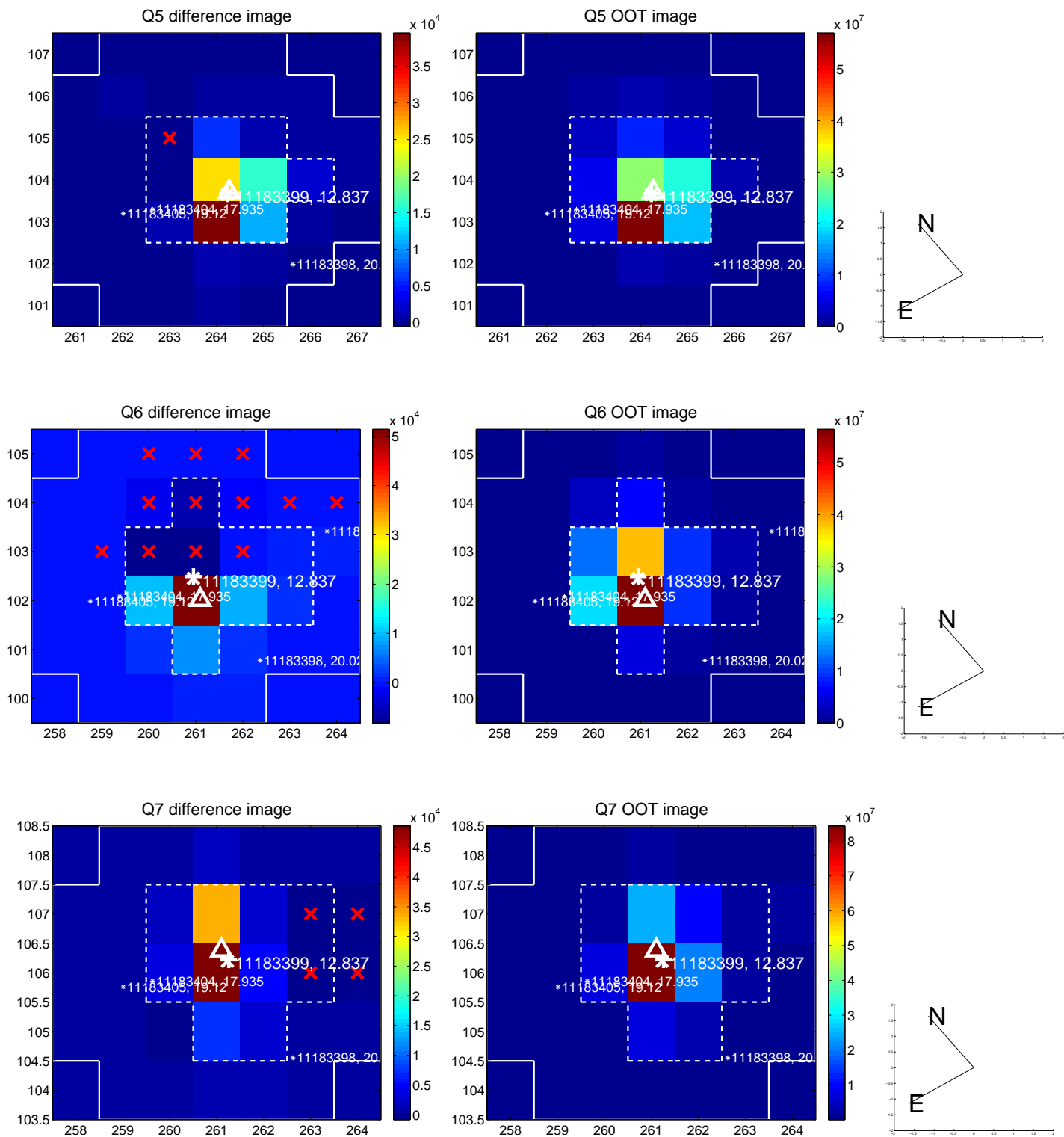


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

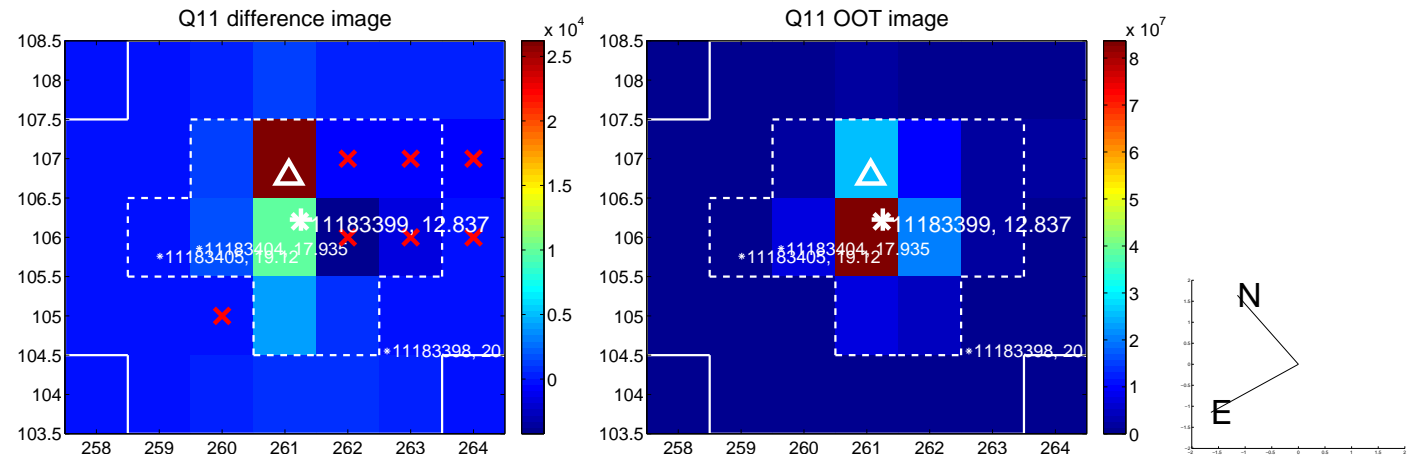
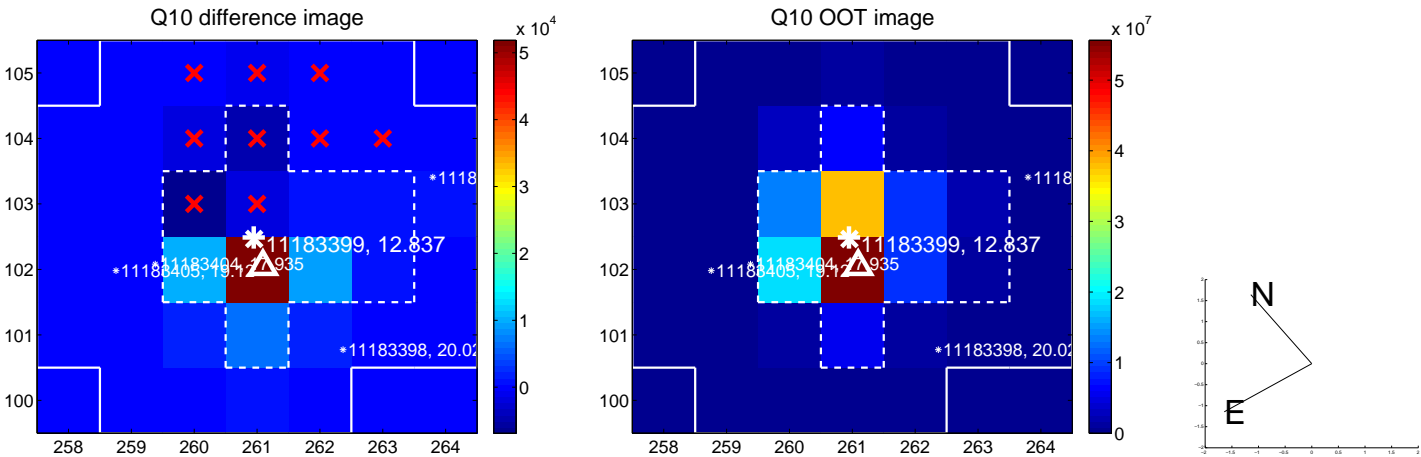
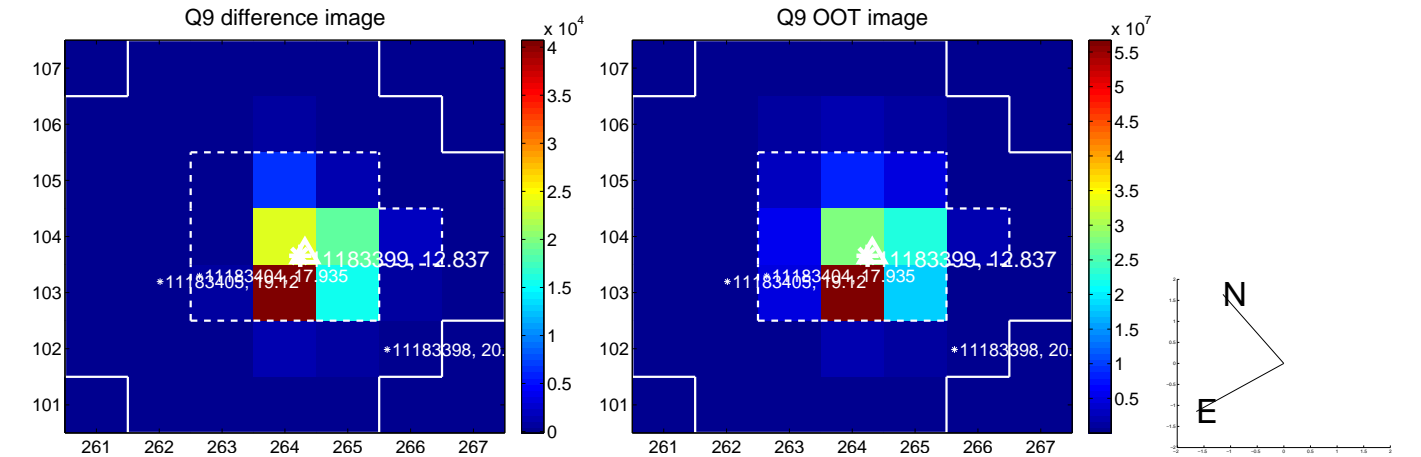
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



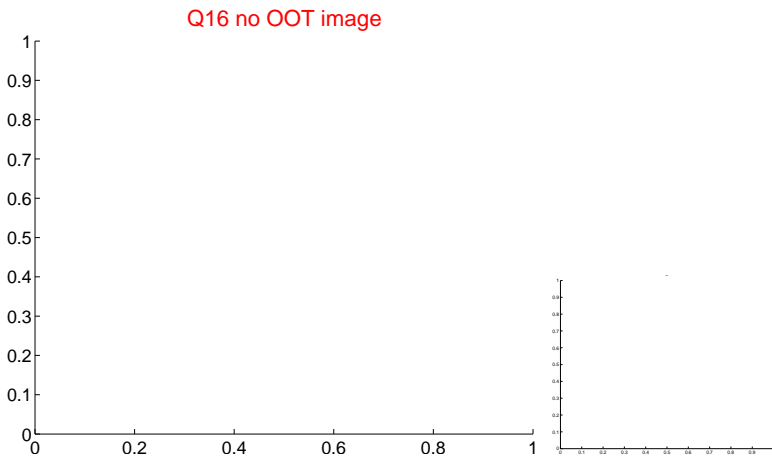
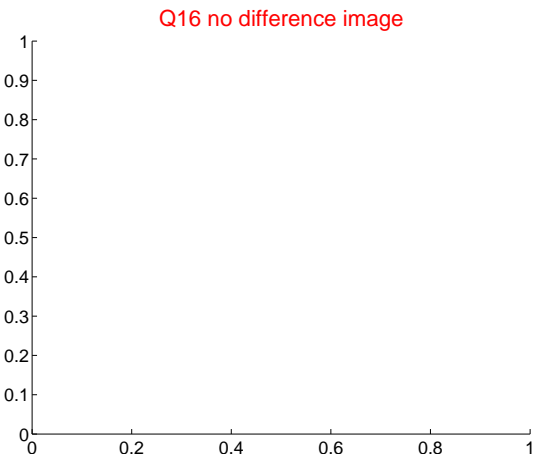
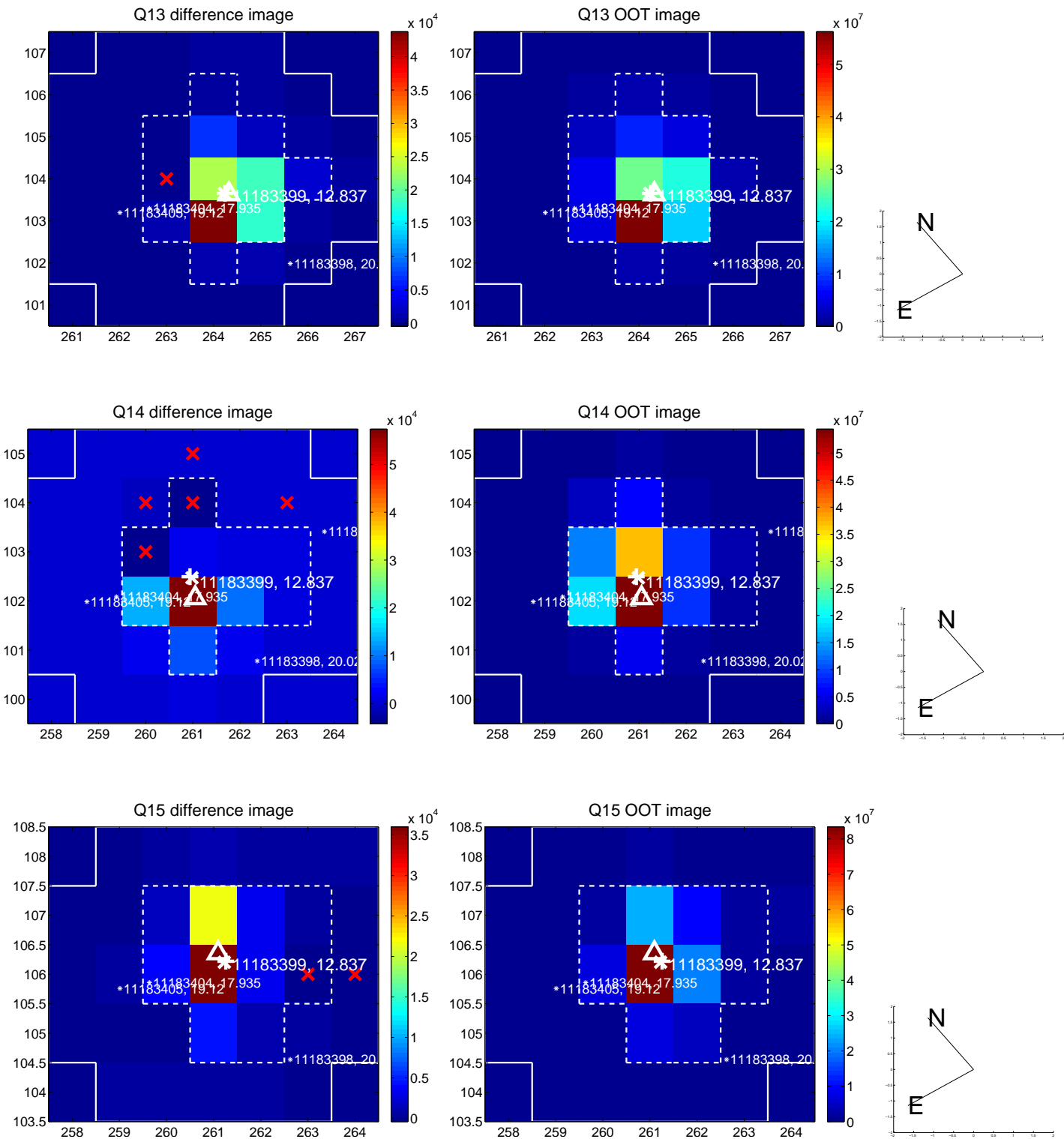
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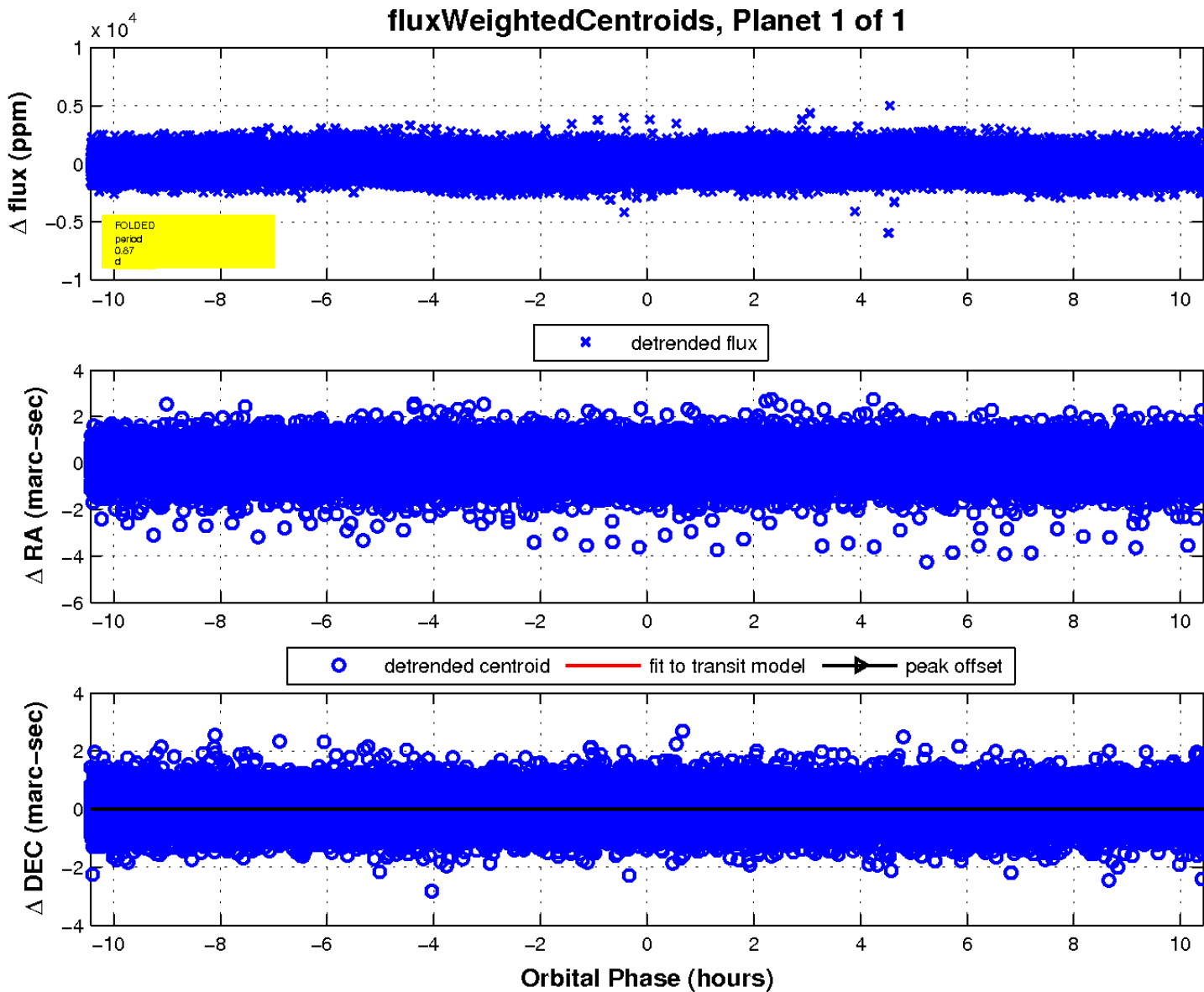
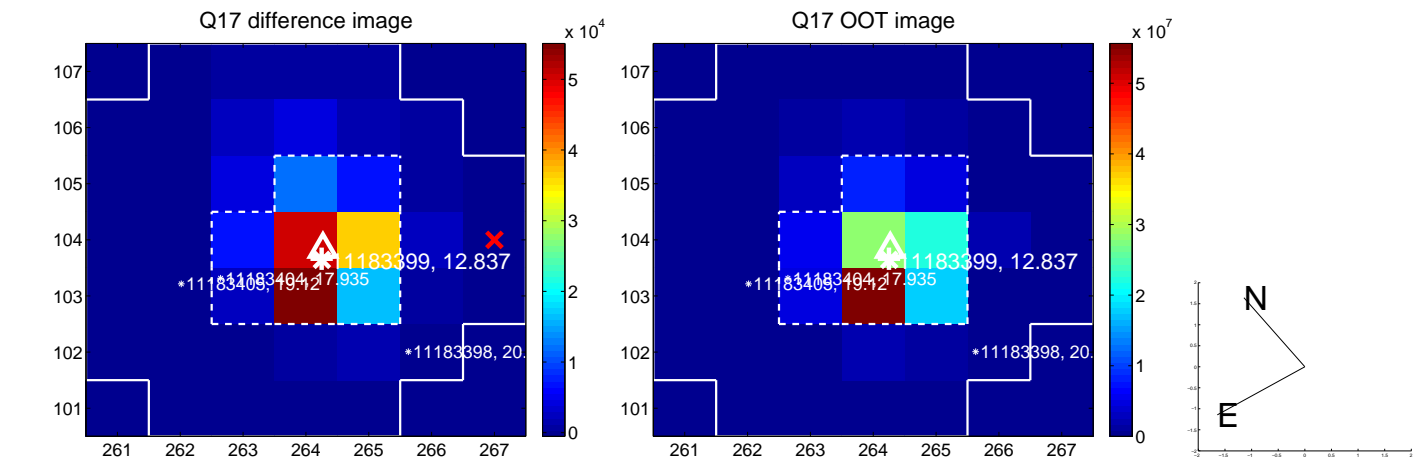
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UKIRT Image

Declination

