

KIC 011175316

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})
011175316-01	OBS	No	1.496666	132.197505	15.3	12.998	8.3	10.0	2.14	9409	0.86	28662.43

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011175316-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—CENT_FEW_MEAS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

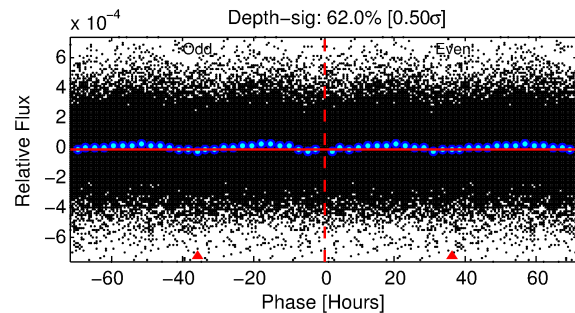
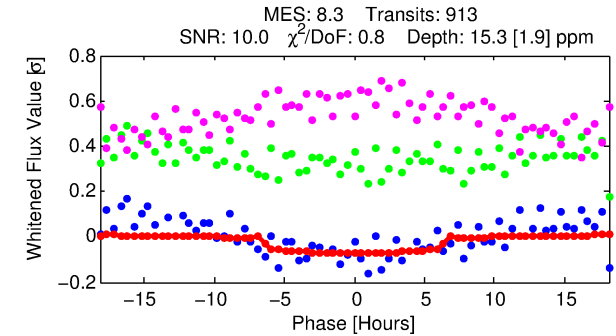
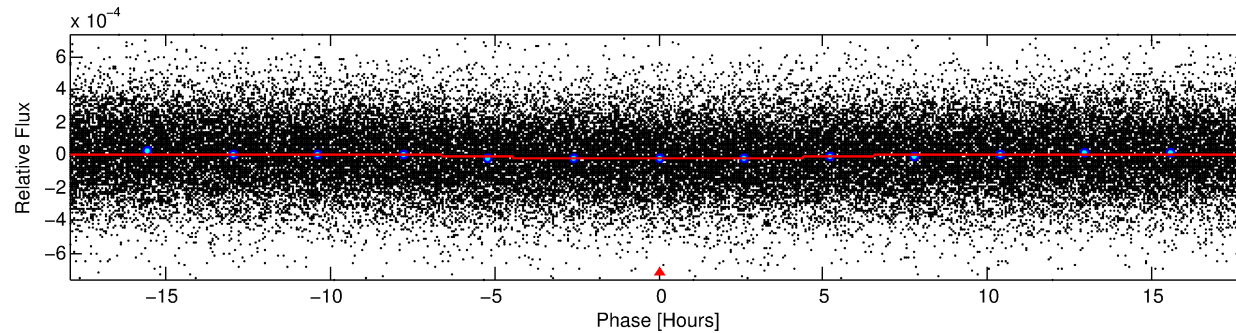
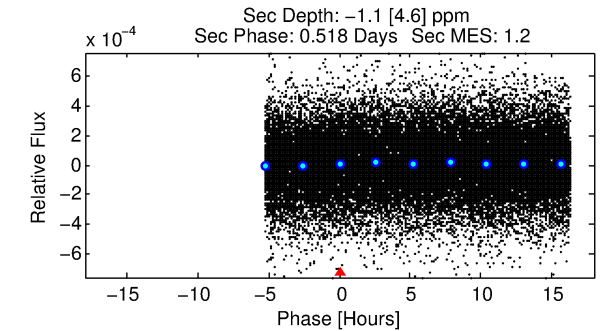
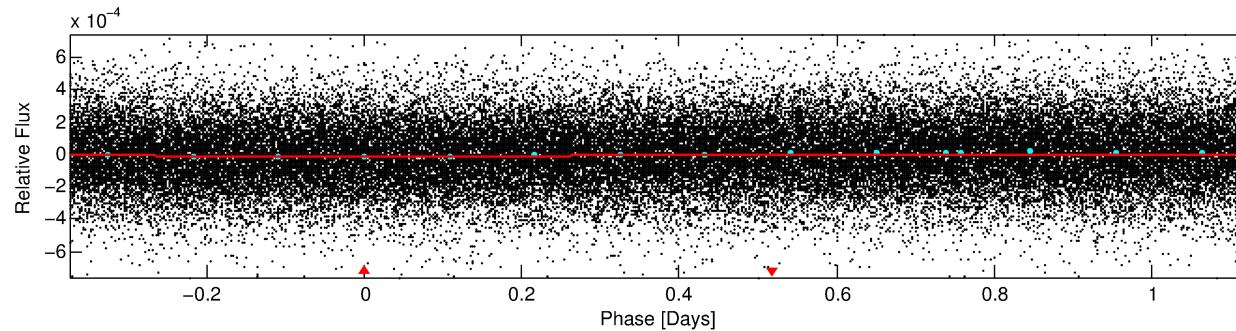
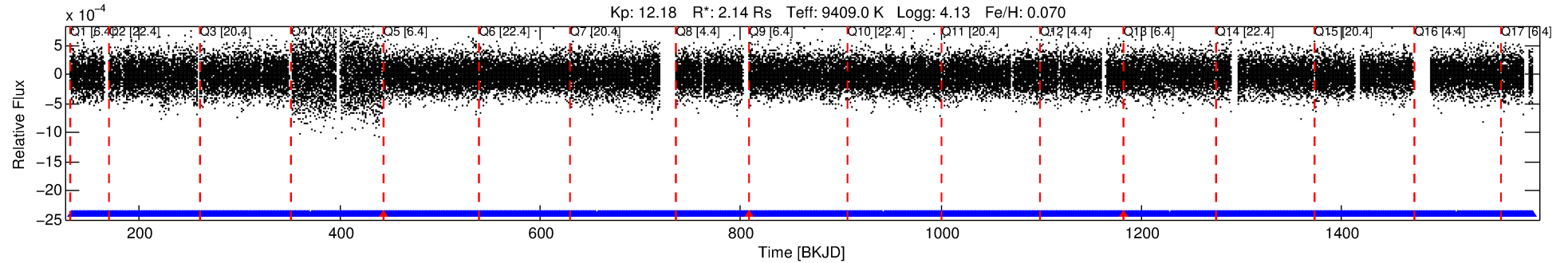
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011175316-01

No Significant Match Found

DV One-Page Summary

KIC: 11175316 Candidate: 1 of 1 Period: 1.497 d



DV Fit Results:

Period = 1.49667 [0.00003] d
Epoch = 132.1975 [0.0096] BKJD
Rp/R* = 0.0037 [0.0035]
a/R* = 1.10 [1.29]
b = 0.14 [46.62]
Seff = 28662.43 [12465.36]
Teff = 3318 [361] K
Rp = 0.86 [0.88] Re
a = 0.0335 [0.0099] AU
Ag = N/A
Teffp = N/A

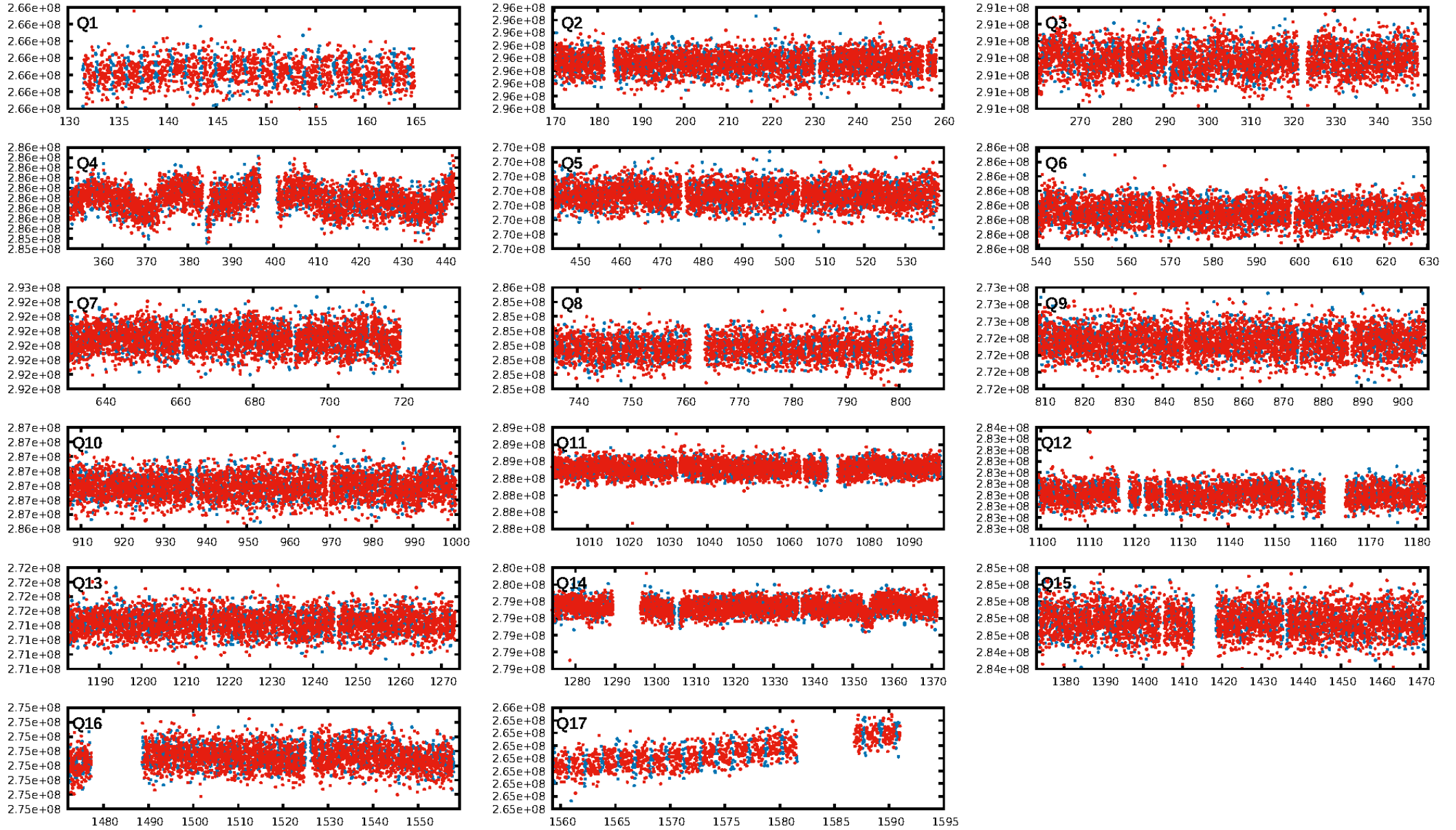
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [869/872]
GhostDiagnostic-chr: 2.204
Centroid-sig: 5.3%
Centroid-so: 1.404 arcsec [1.79σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

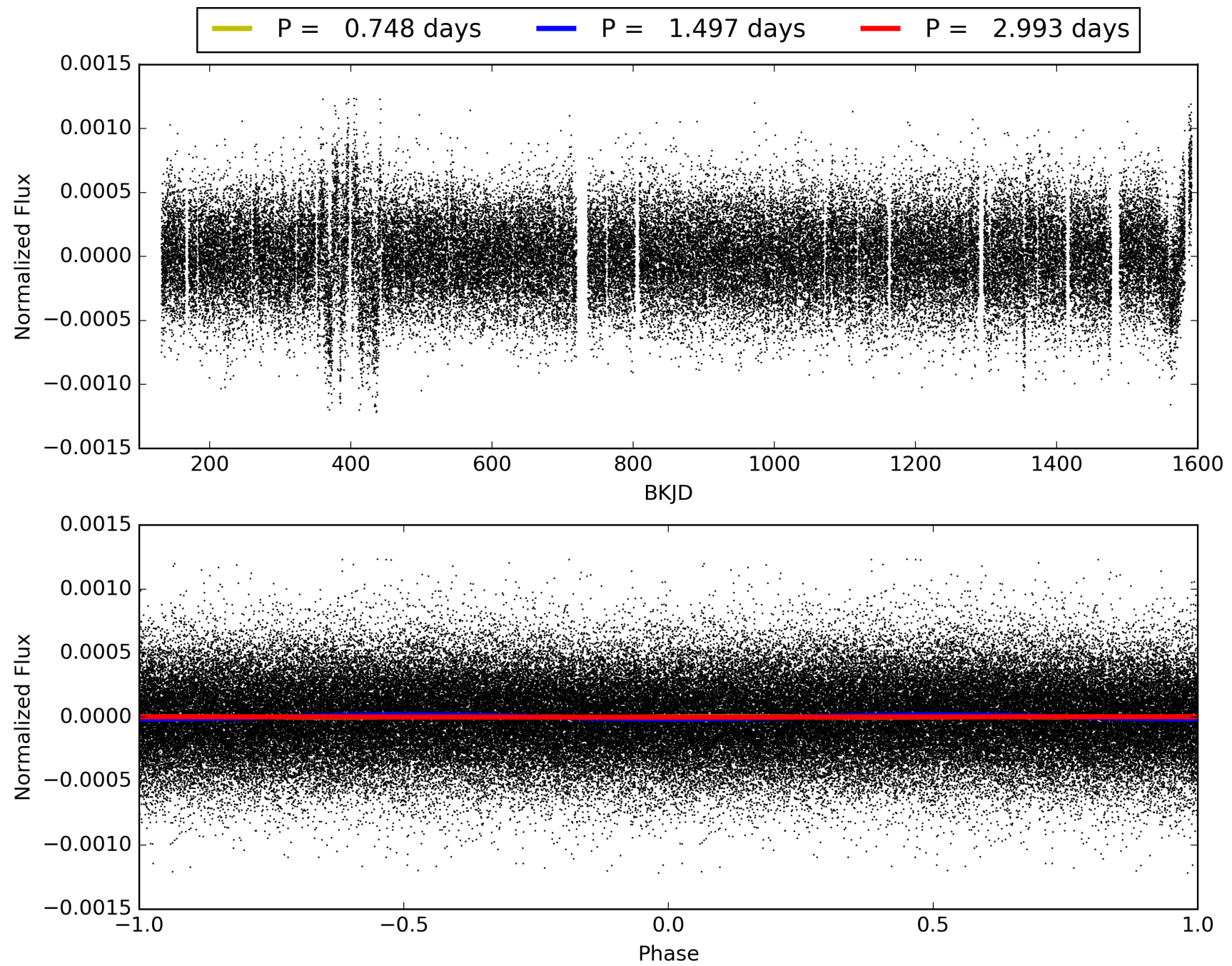
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 03:00:48 Z

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

TCE 011175316-01, PDC Light Curves

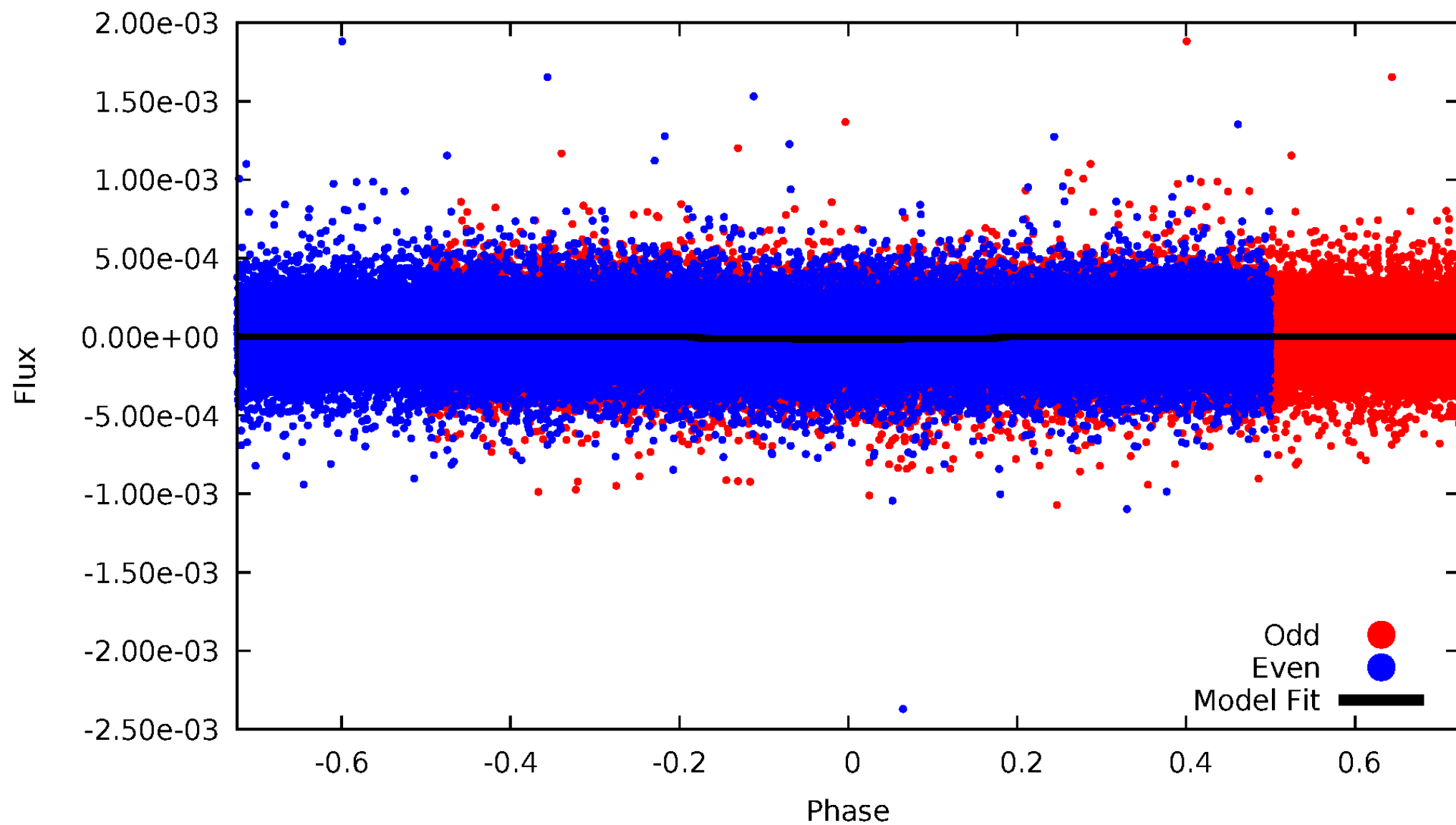


TCE 011175316-01



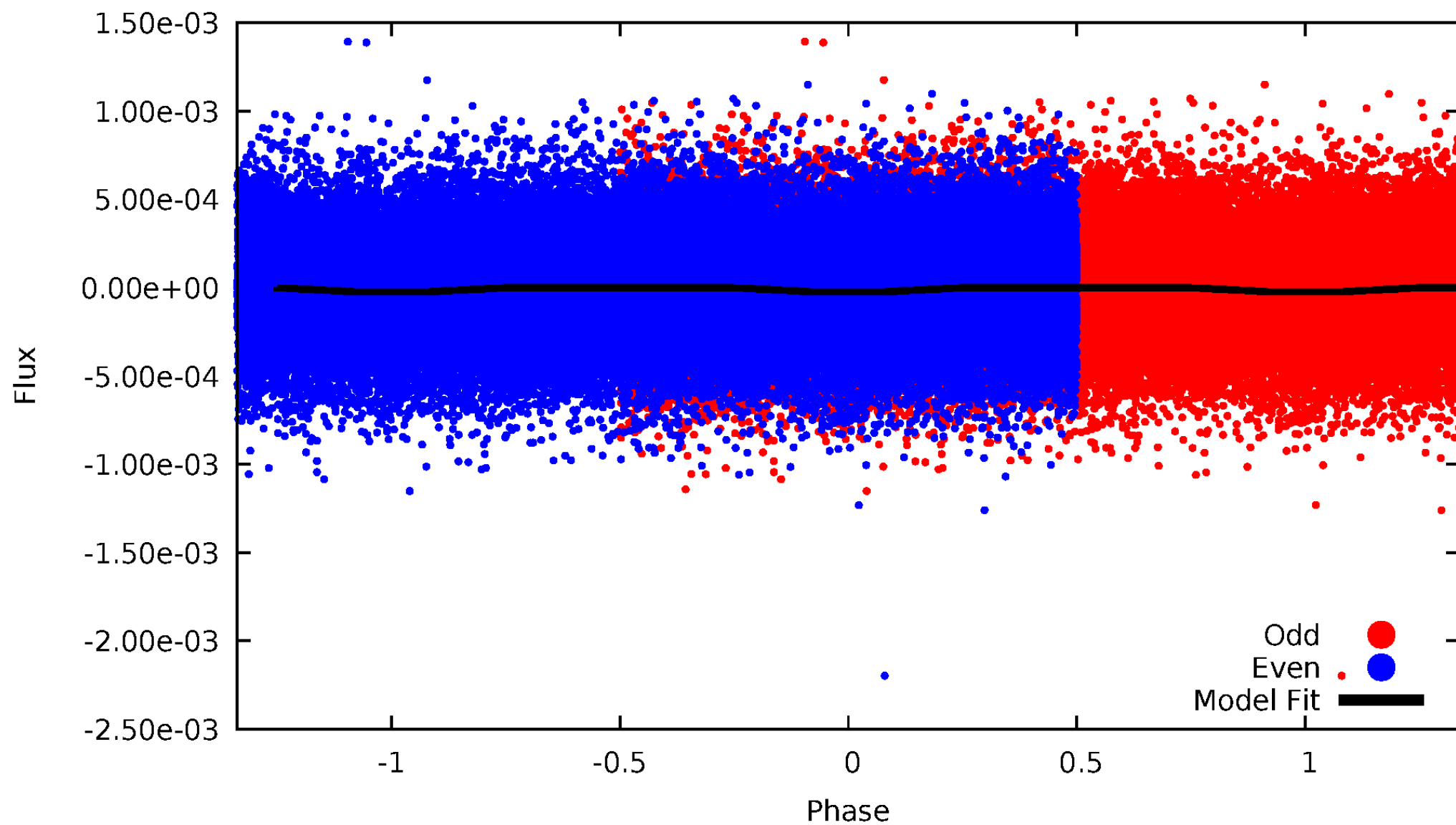
DV Odd/Even

TCE 011175316-01

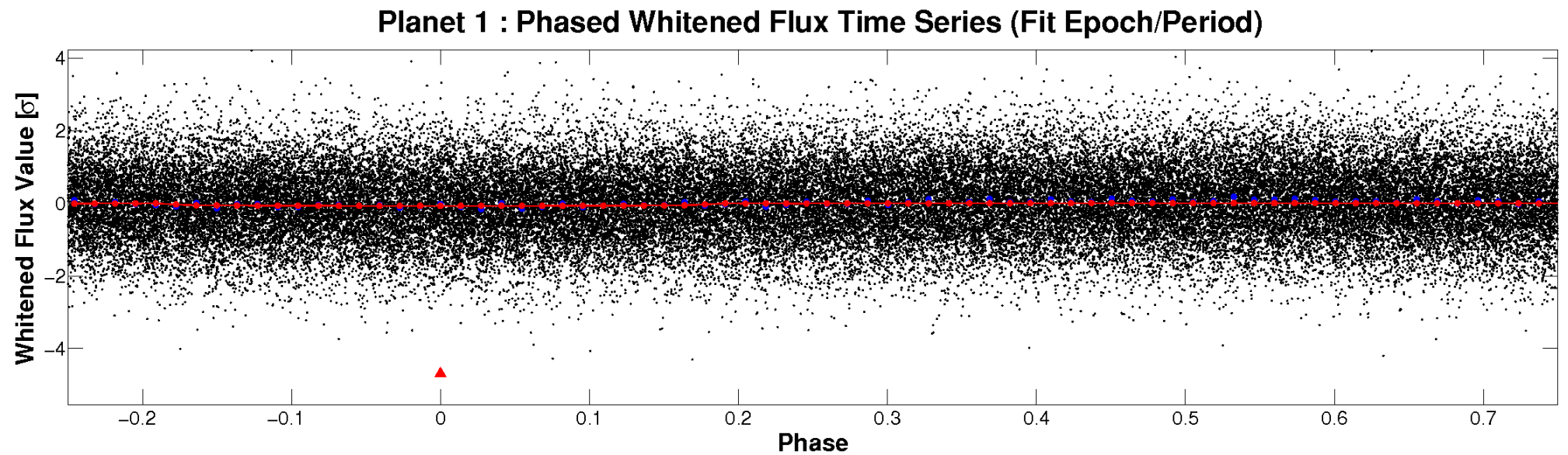
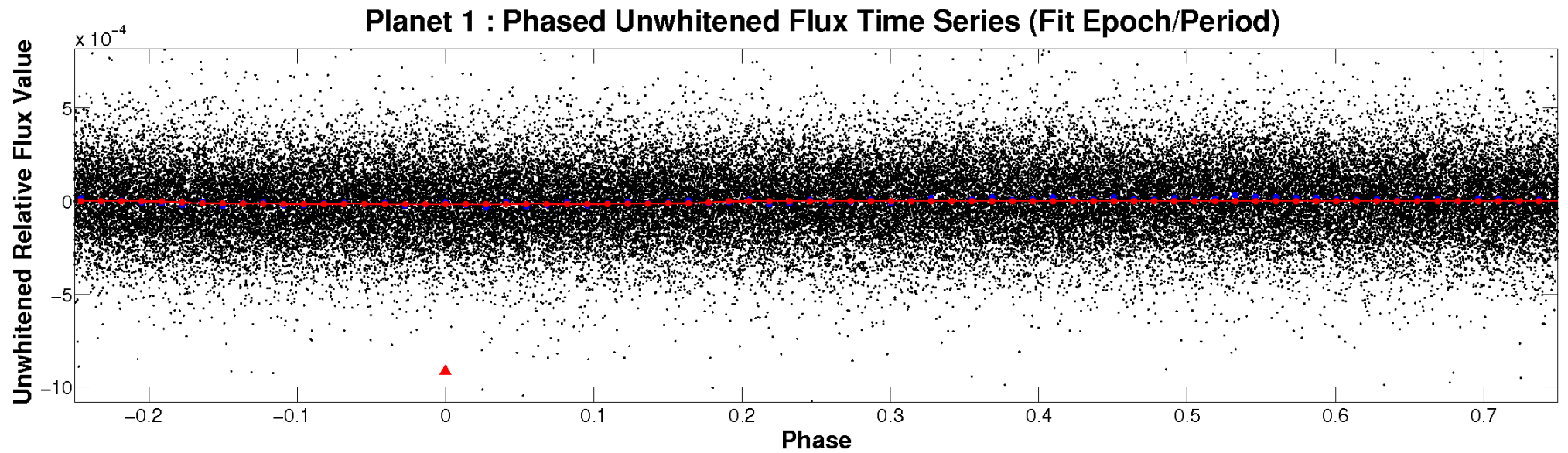


ALT Odd/Even

TCE 011175316-01

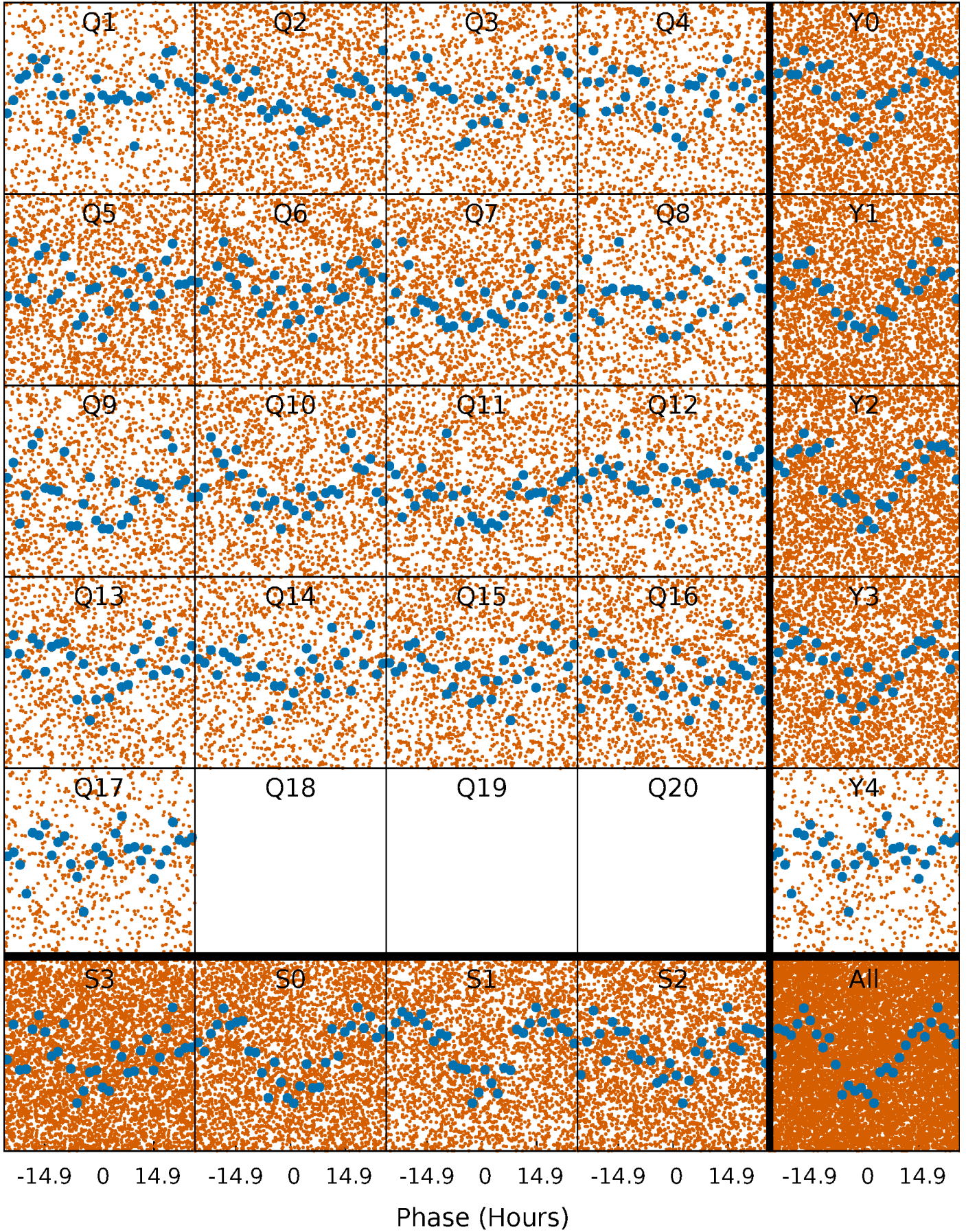


Non-Whitened Vs. Whitened Light Curve



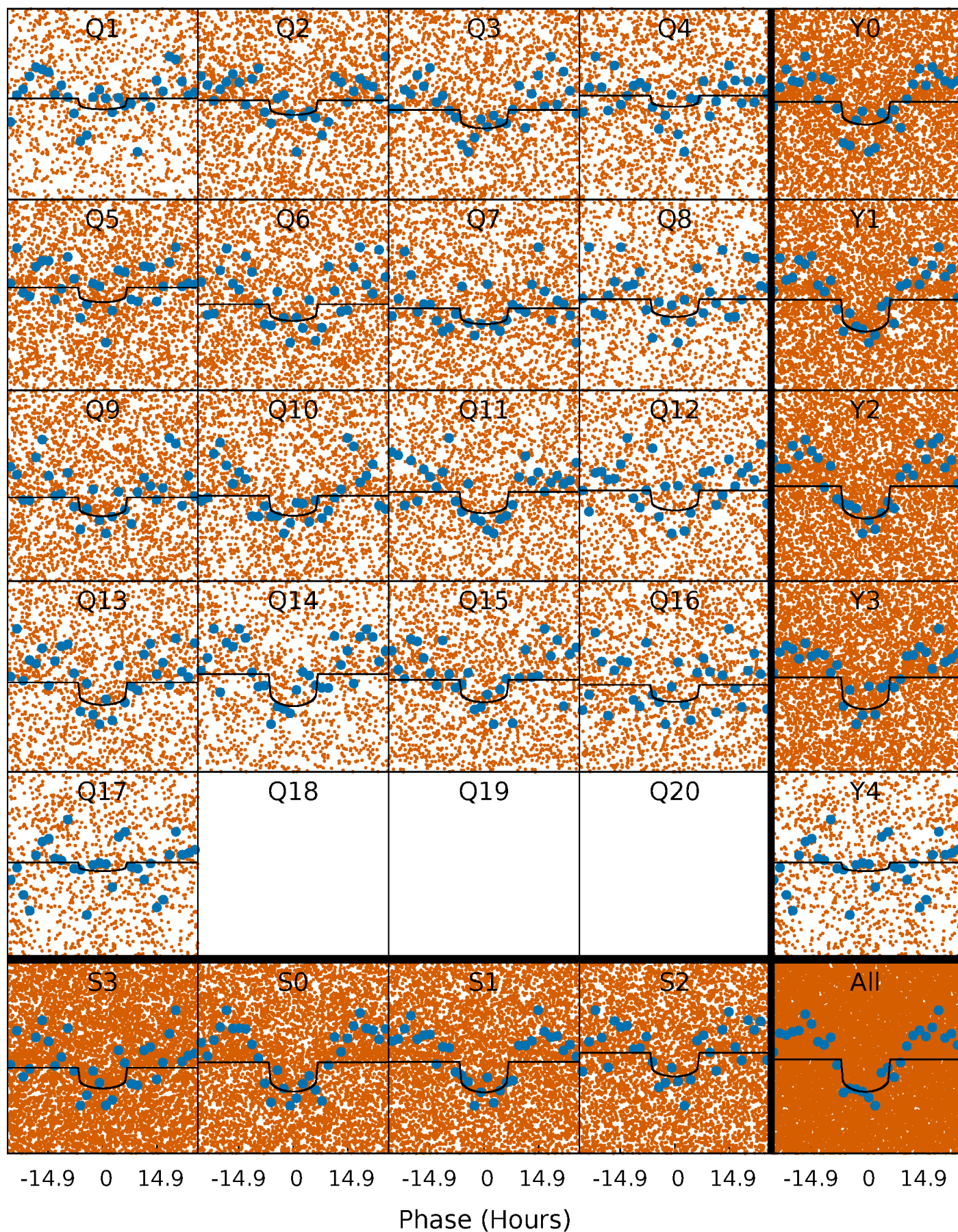
PDC Quarter-Phased Transit Curves

TCE 011175316-01 P= 1.496666 Days $T_0=132.197505$ (BKJD)



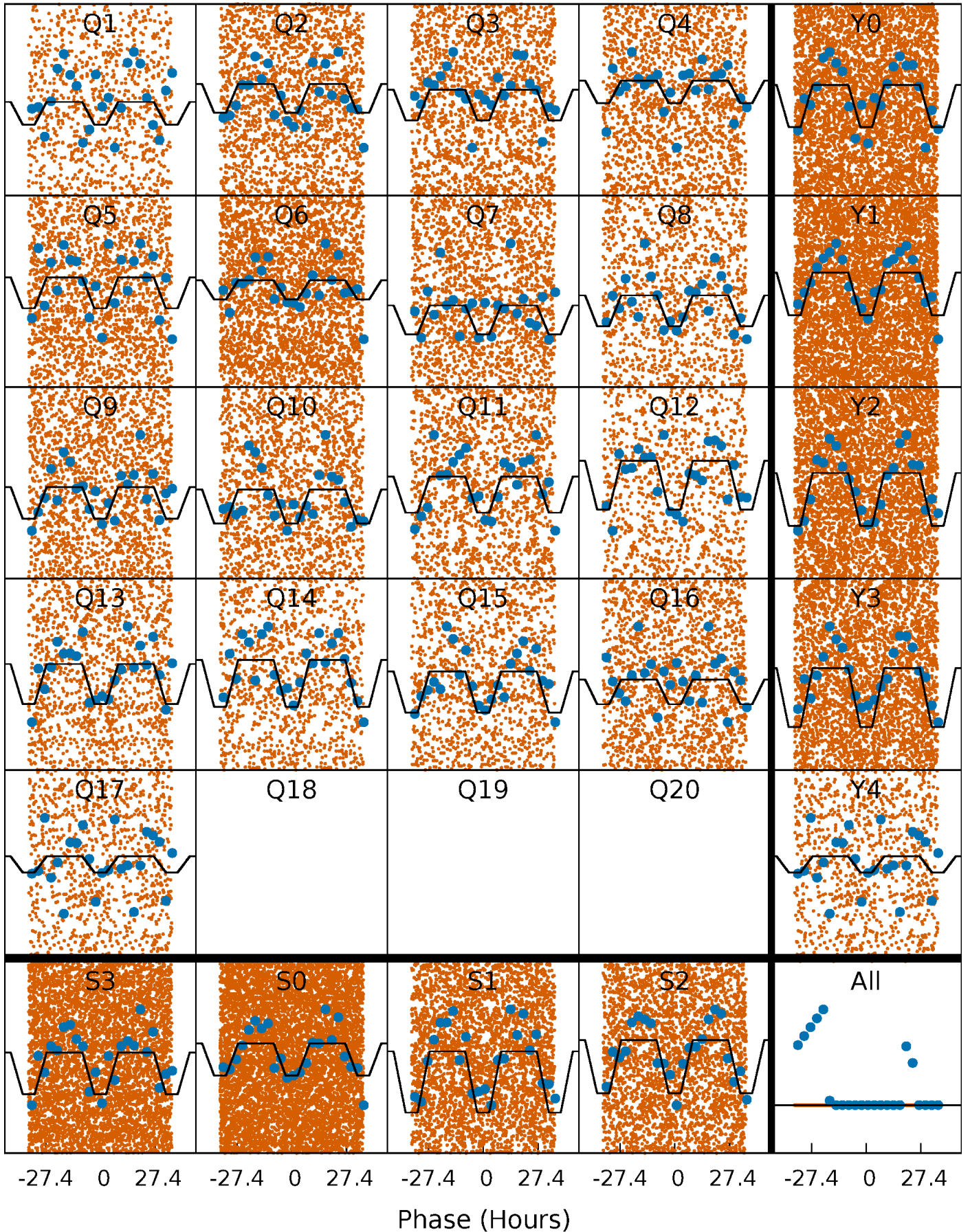
DV Quarter-Phased Transit Curves

TCE 011175316-01 P= 1.496666 Days $T_0=132.197505$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

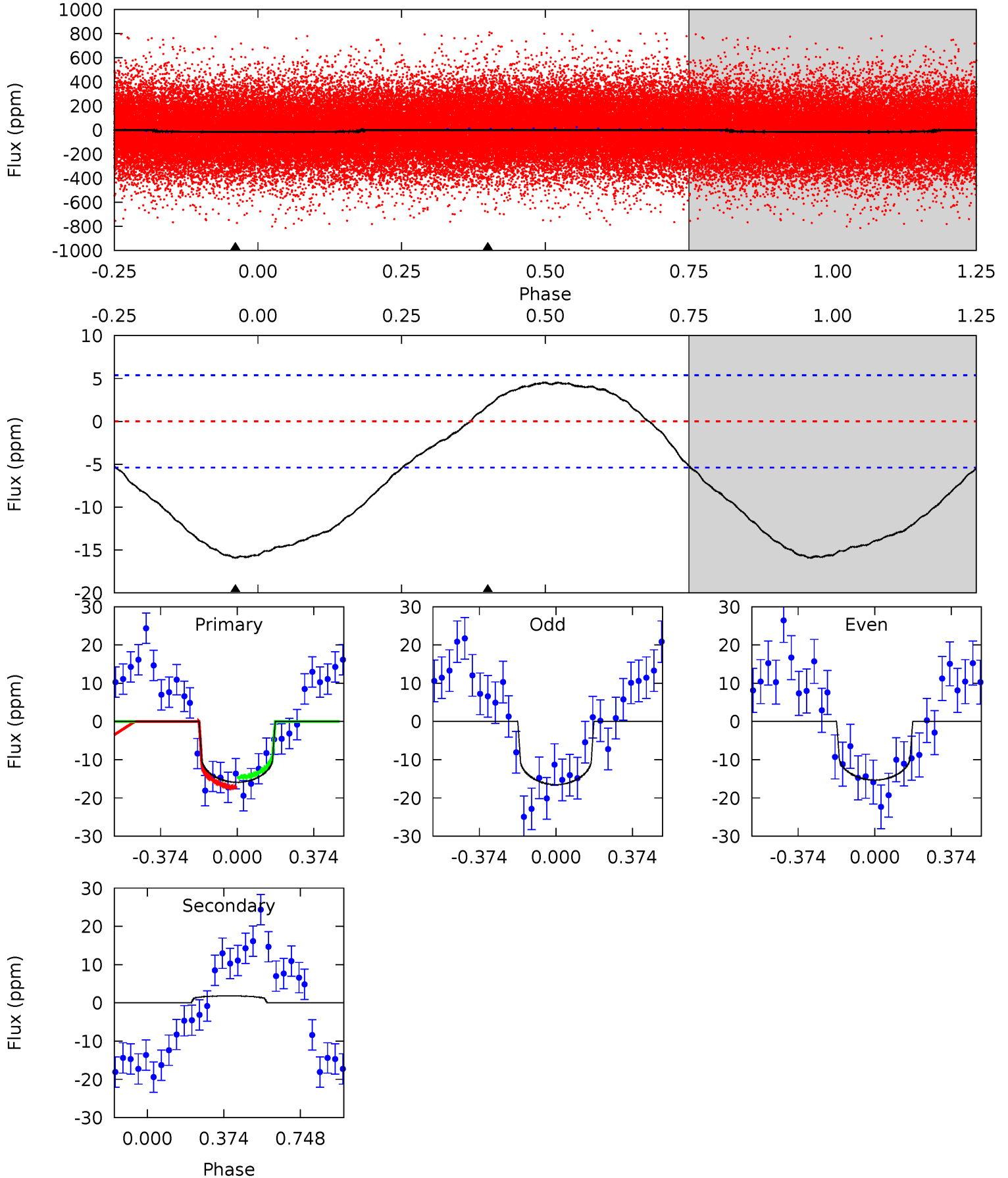
TCE 011175316-01 P= 1.496498 Days $T_0=132.274897$ (BKJD)



DV Model-Shift Uniqueness Test

011175316-01, $P = 1.496666$ Days, $E = 130.700839$ Days

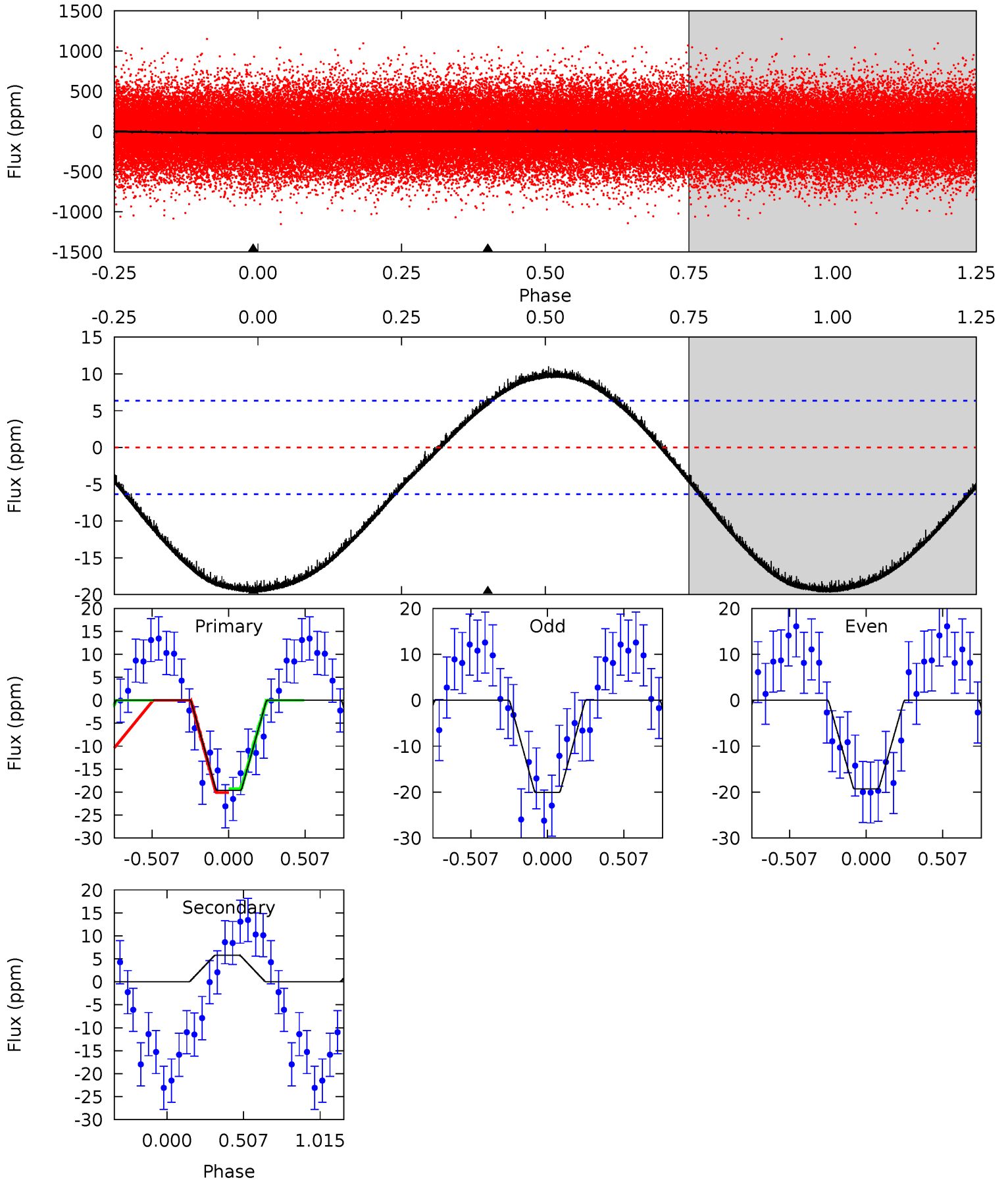
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	-1.46	0	0	4.28	0.89	1.45	12.7	12.7	-1.46	-1.46	0.47	1.01	0.22	1.06



Alt Model-Shift Uniqueness Test

011175316-01, P = 1.496498 Days, E = 130.778399 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	-3.84	0	0	4.21	0.66	1.72	13.0	13.0	-3.84	-3.84	0.25	0.65	0.36	0.27



Stellar Parameters For KIC 011175316

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	9409^{+301}_{-451}	$4.127^{+0.157}_{-0.192}$	$0.070^{+0.150}_{-0.650}$	$2.141^{+0.822}_{-0.548}$	$2.242^{+0.395}_{-0.592}$	$0.322^{+0.279}_{-0.170}$
	+3%/-5%	+4%/-5%	+214%/-929%	+38%/-26%	+18%/-26%	+87%/-53%
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 011175316-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	2 ± 1	$1.05^{+0.79}_{-0.63}$	4620^{+450}_{-333}	-5105^{+823}_{-2807}	$-0.864^{+0.697}_{-5.402}$
Alt.	6 ± 2	$1.24^{+0.80}_{-0.77}$	4644^{+376}_{-383}	-6089^{+1017}_{-4528}	$-2.286^{+1.425}_{-13.093}$

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

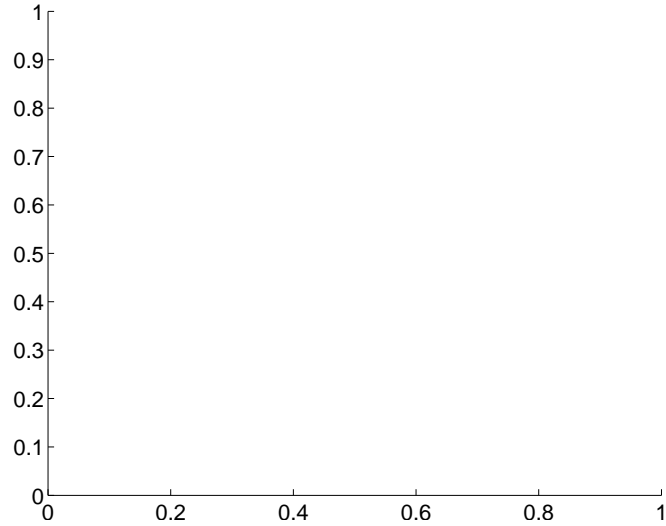
Supplemental centroid analysis for 011175316-01. Kepler magnitude: 12.18. Transit SNR 10.05

There are 0 quarters with good PRF difference image offsets

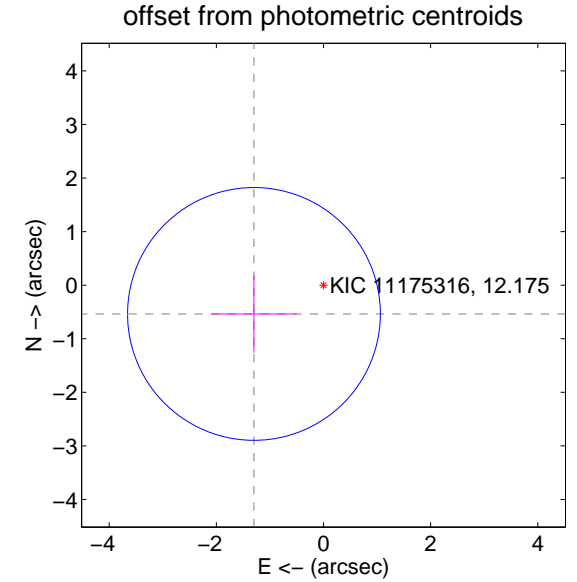
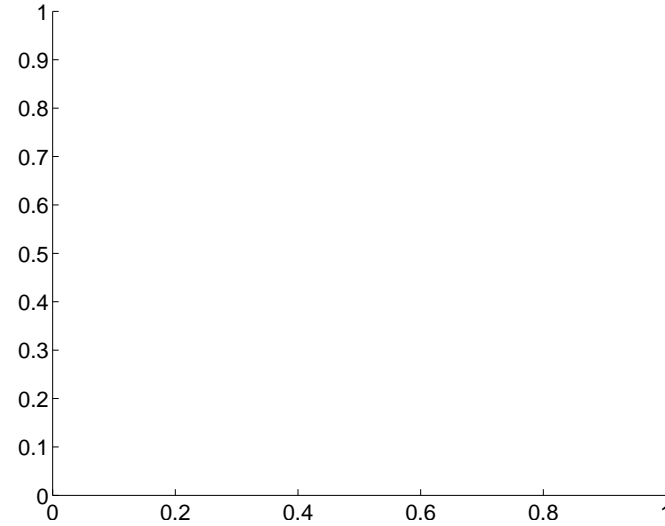
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	1.40 ± 0.79	1.79	1.30 ± 0.80	-0.54 ± 0.72

There is no PRF-fit offset from OOT-fit

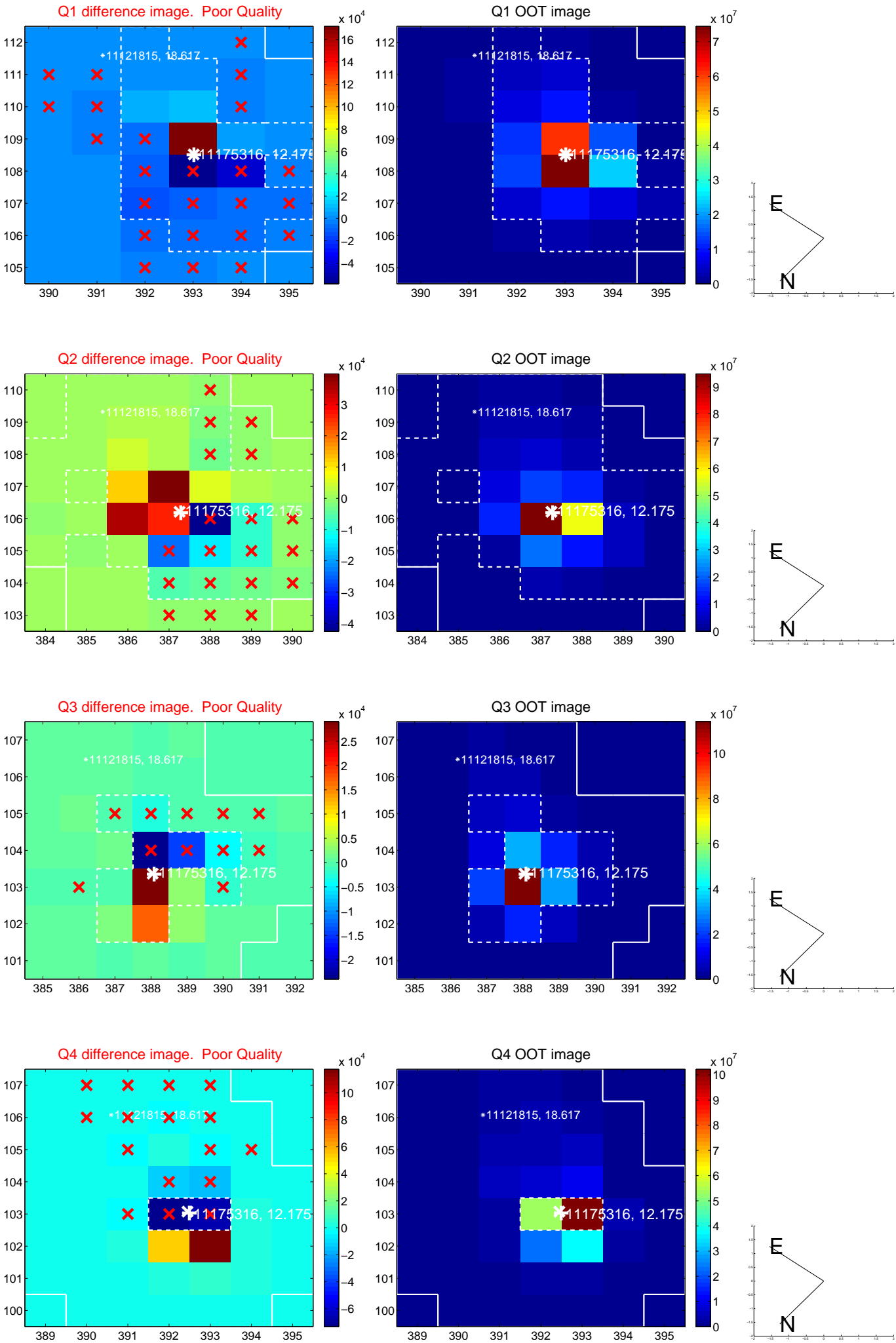


There is no PRF-fit offset from KIC

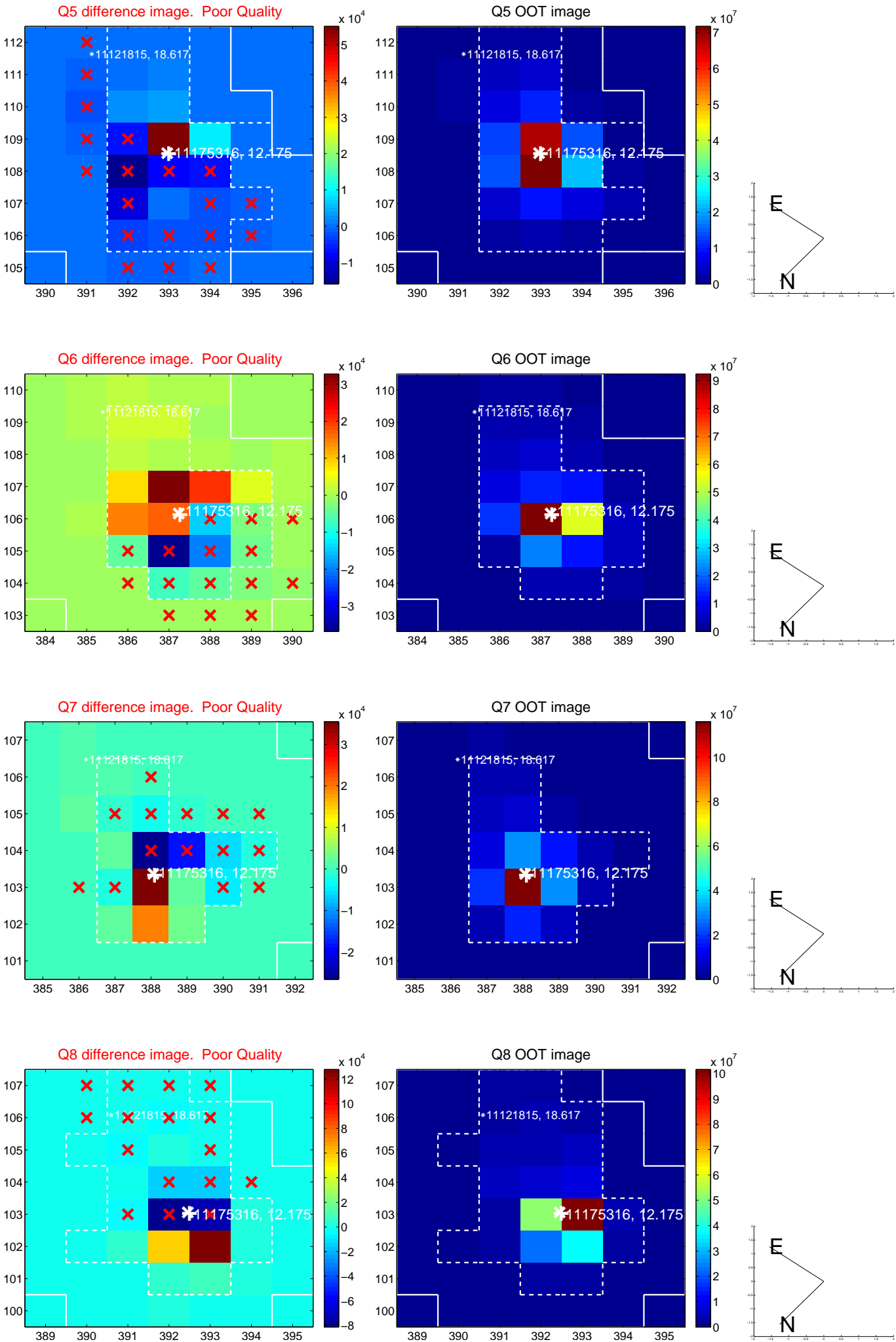


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

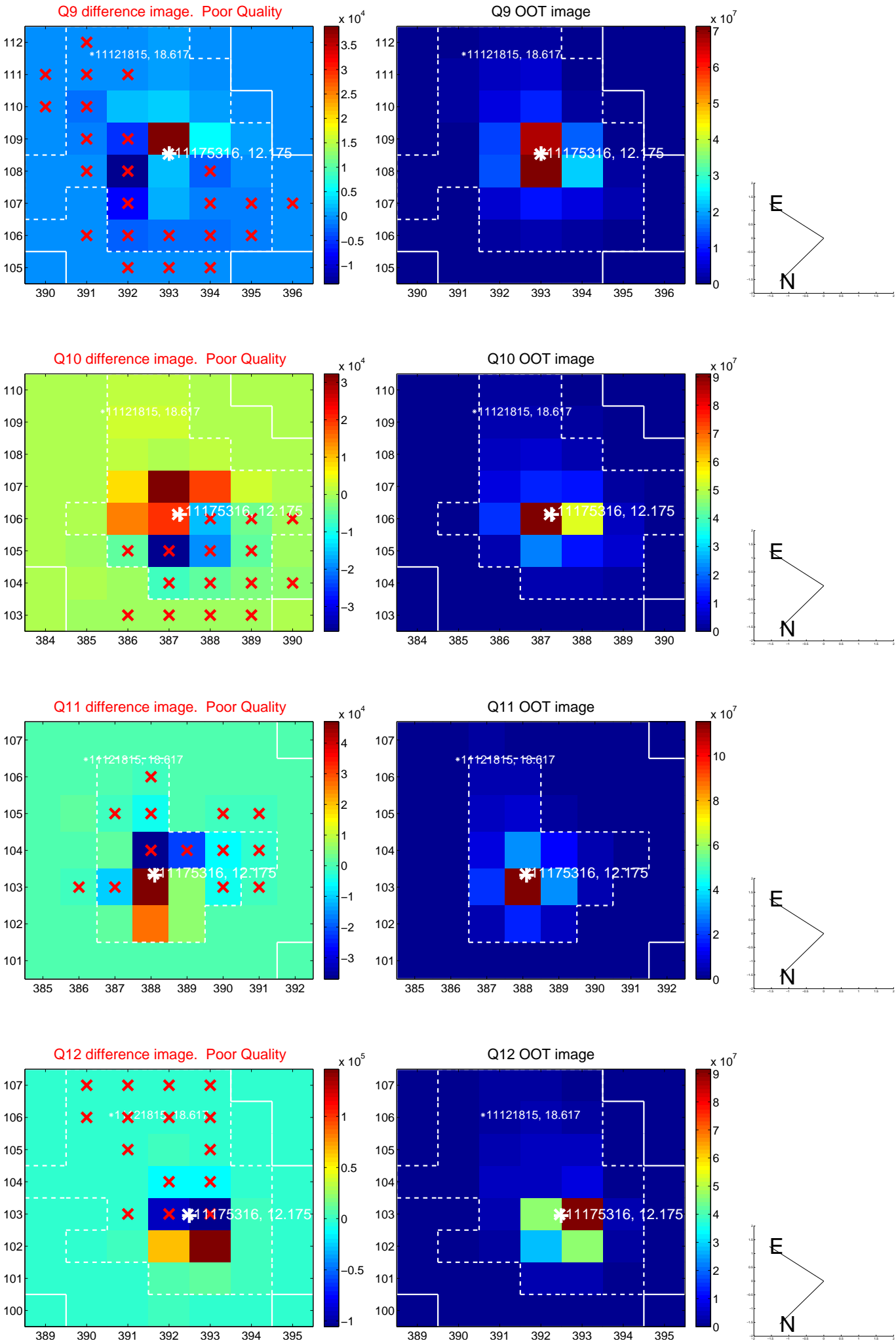
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



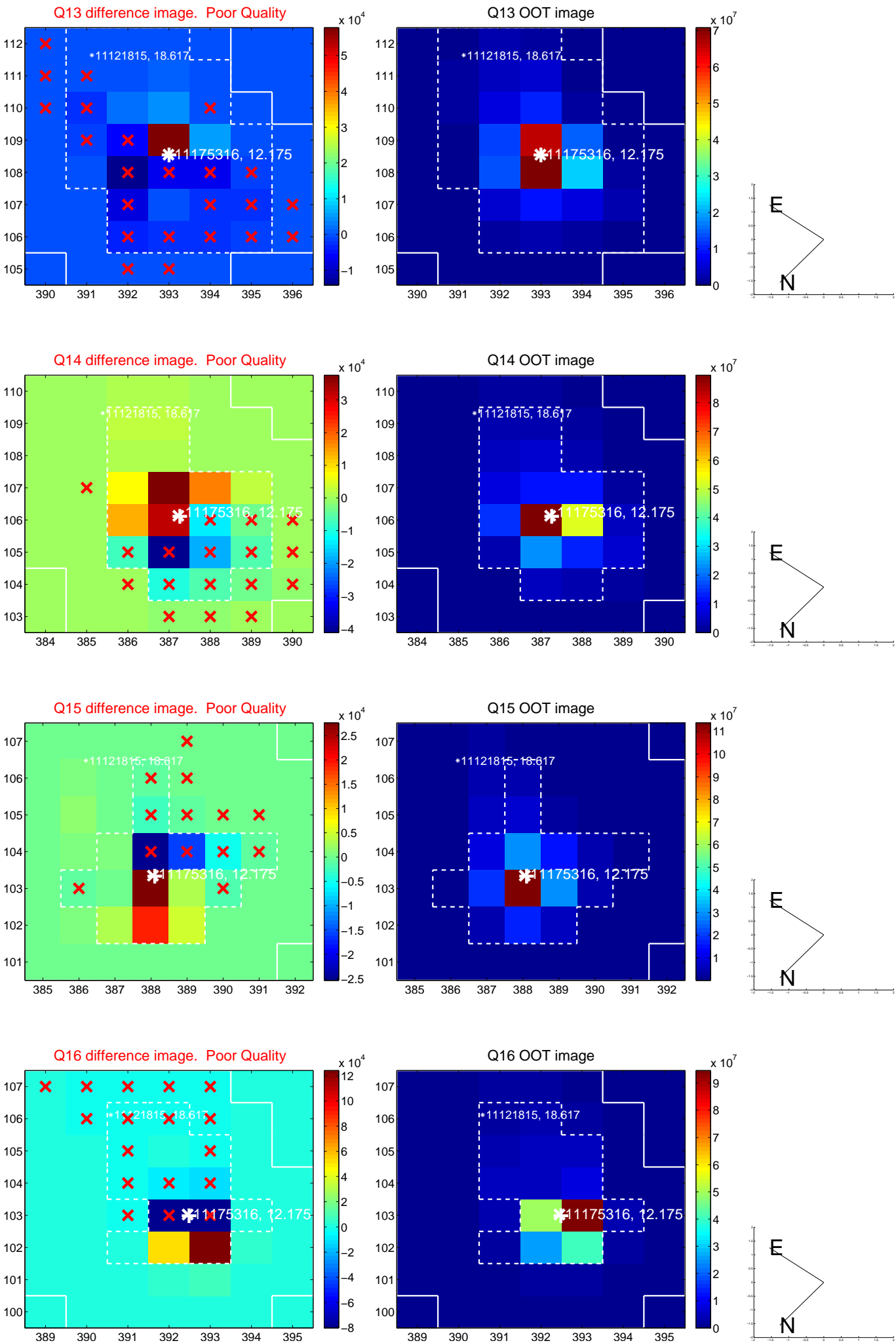
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



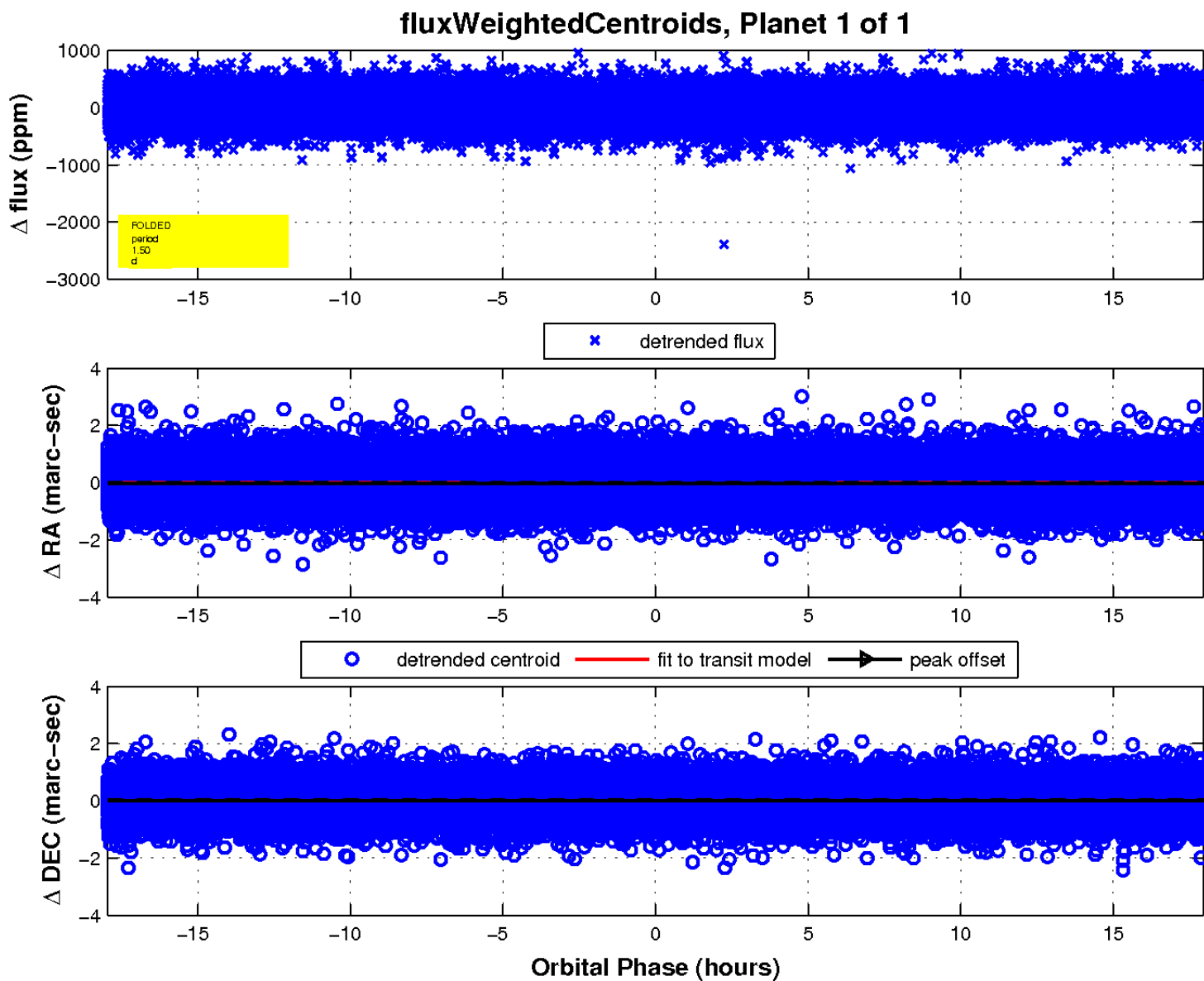
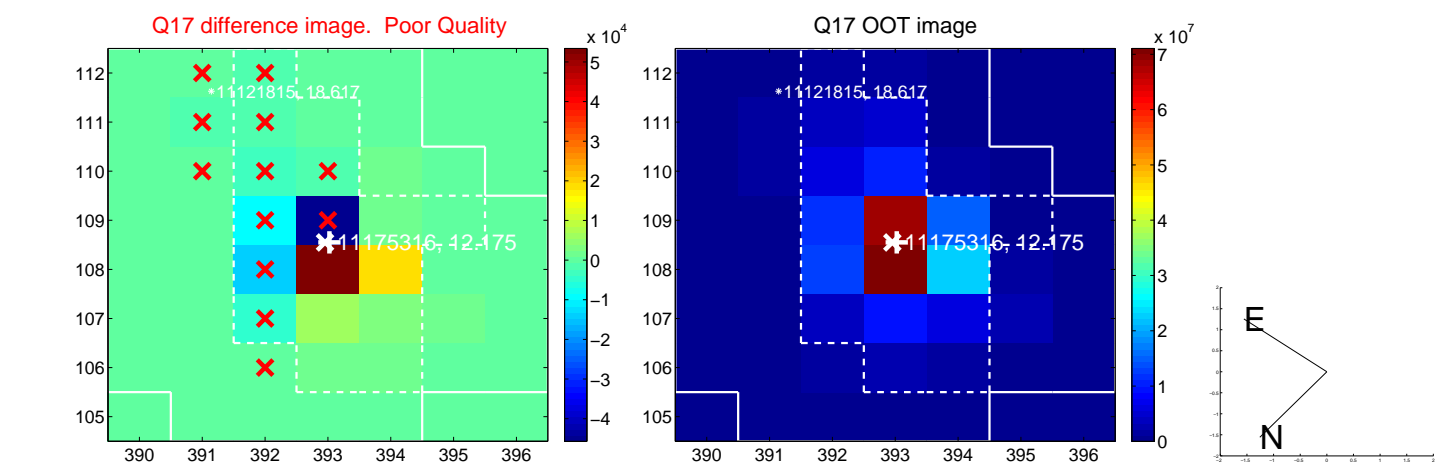
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UKIRT Image

