

KIC 011967356

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})
011967356-01	OBS	No	0.536817	132.003930	0.3	6.442	9.1	0.2	3.06	7348	0.16	91983.73

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011967356-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT

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

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

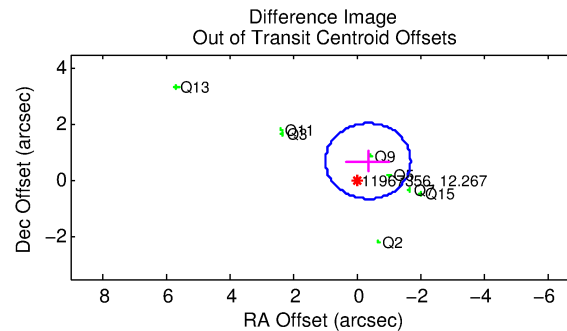
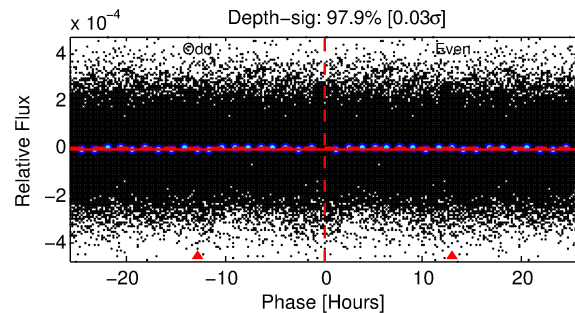
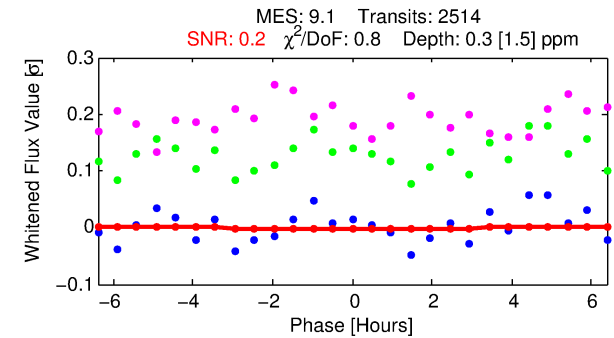
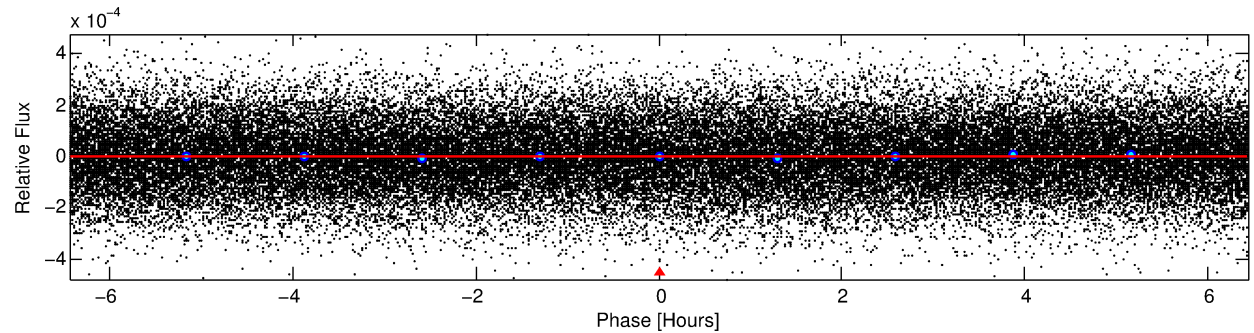
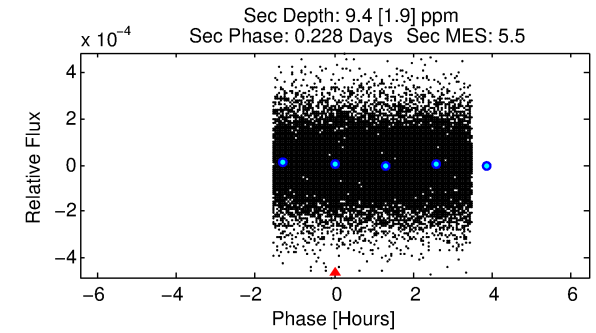
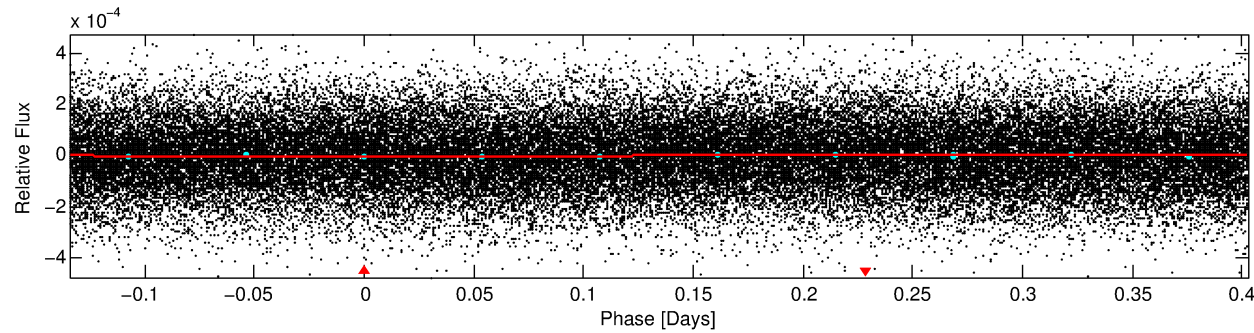
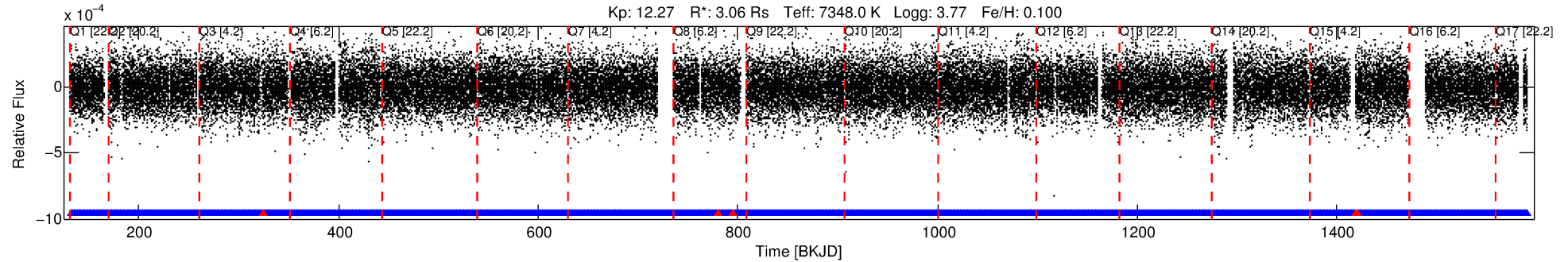
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011967356-01

No Significant Match Found

DV One-Page Summary

KIC: 11967356 Candidate: 1 of 1 Period: 0.537 d



DV Fit Results:

Period = 0.53682 [0.00059] d
Epoch = 132.0039 [0.2341] BKJD
Rp/R* = 0.0005 [0.0110]
a/R* = 1.00 [0.09]
b = 0.32 [401.18]
Seff = 91983.73 [61673.58]
Teff = 4441 [744] K
Rp = 0.16 [3.68] Re
a = 0.0163 [0.0067] AU
Ag = 55.24 [2580.05] [0.02σ]
Teffp = 18718 [218531] K [0.07σ]

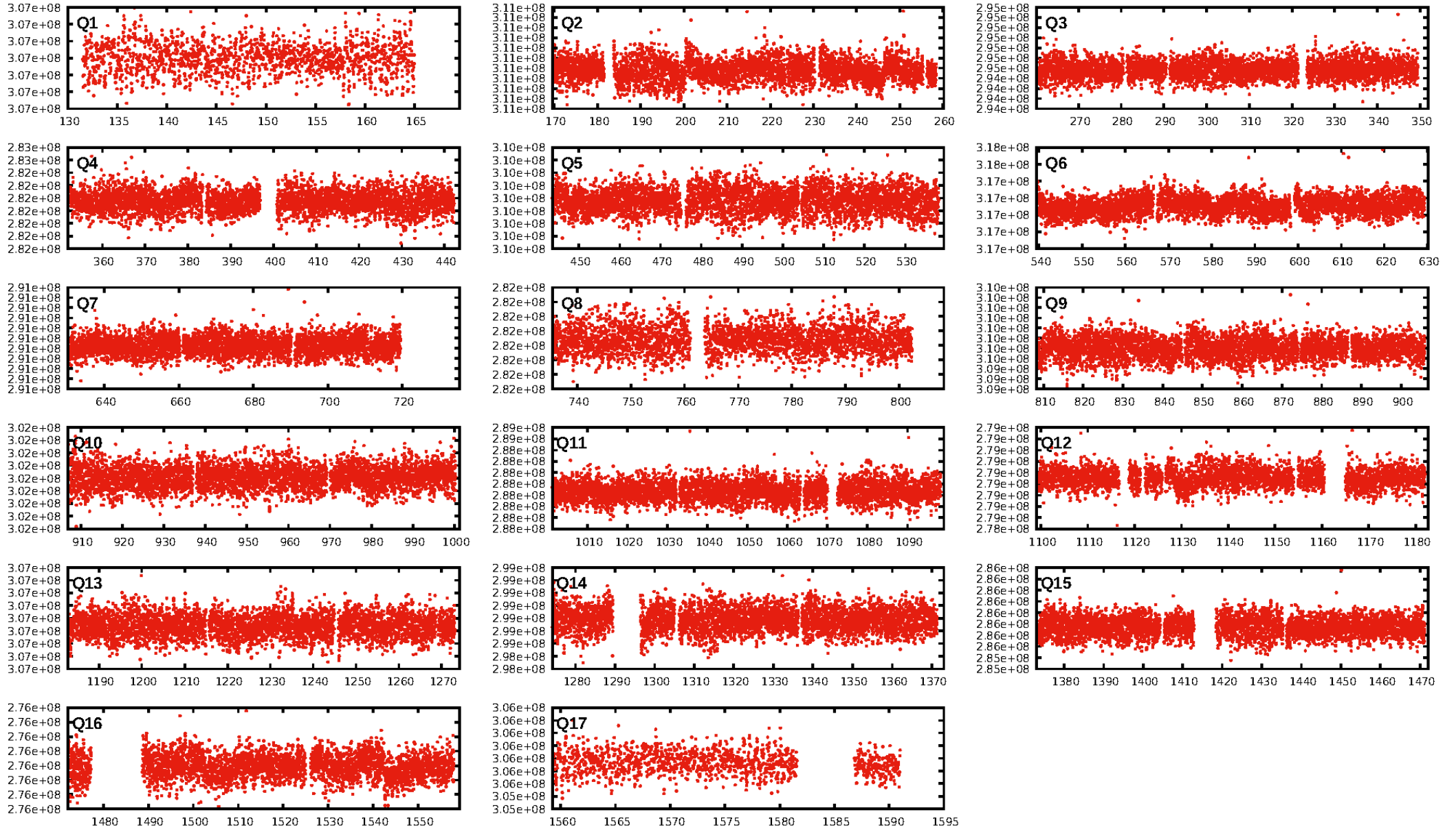
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2394/2400]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.789 arcsec [1.76σ]
KicOffset-rm: 0.786 arcsec [1.87σ]
OotOffset-st: 1/4/0/3 [8]
KicOffset-st: 1/4/0/3 [8]
DiffImageQuality-fgm: 0.50 [4/8]
DiffImageOverlap-fno: 1.00 [17/17]

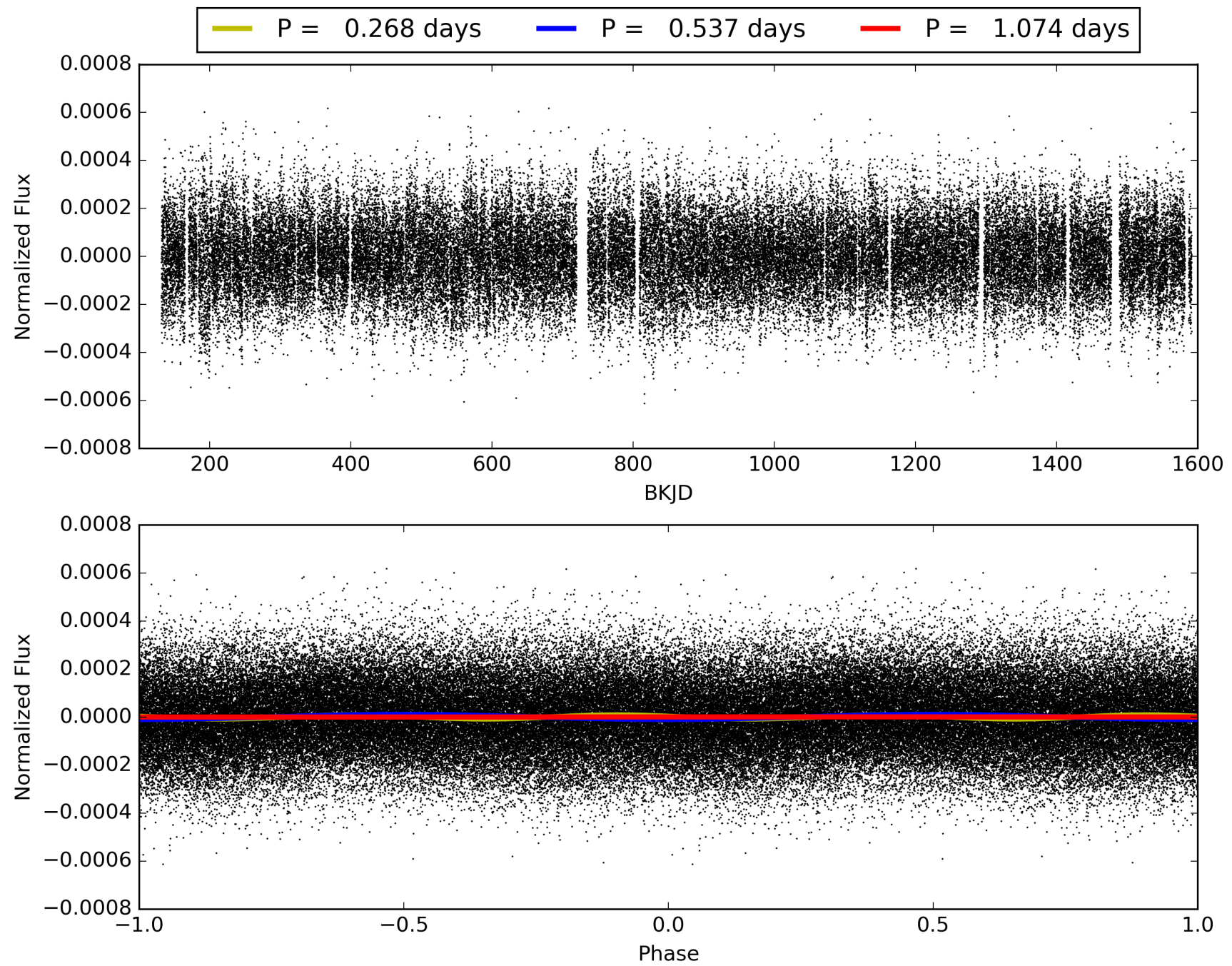
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:58:06 Z

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

TCE 011967356-01, PDC Light Curves

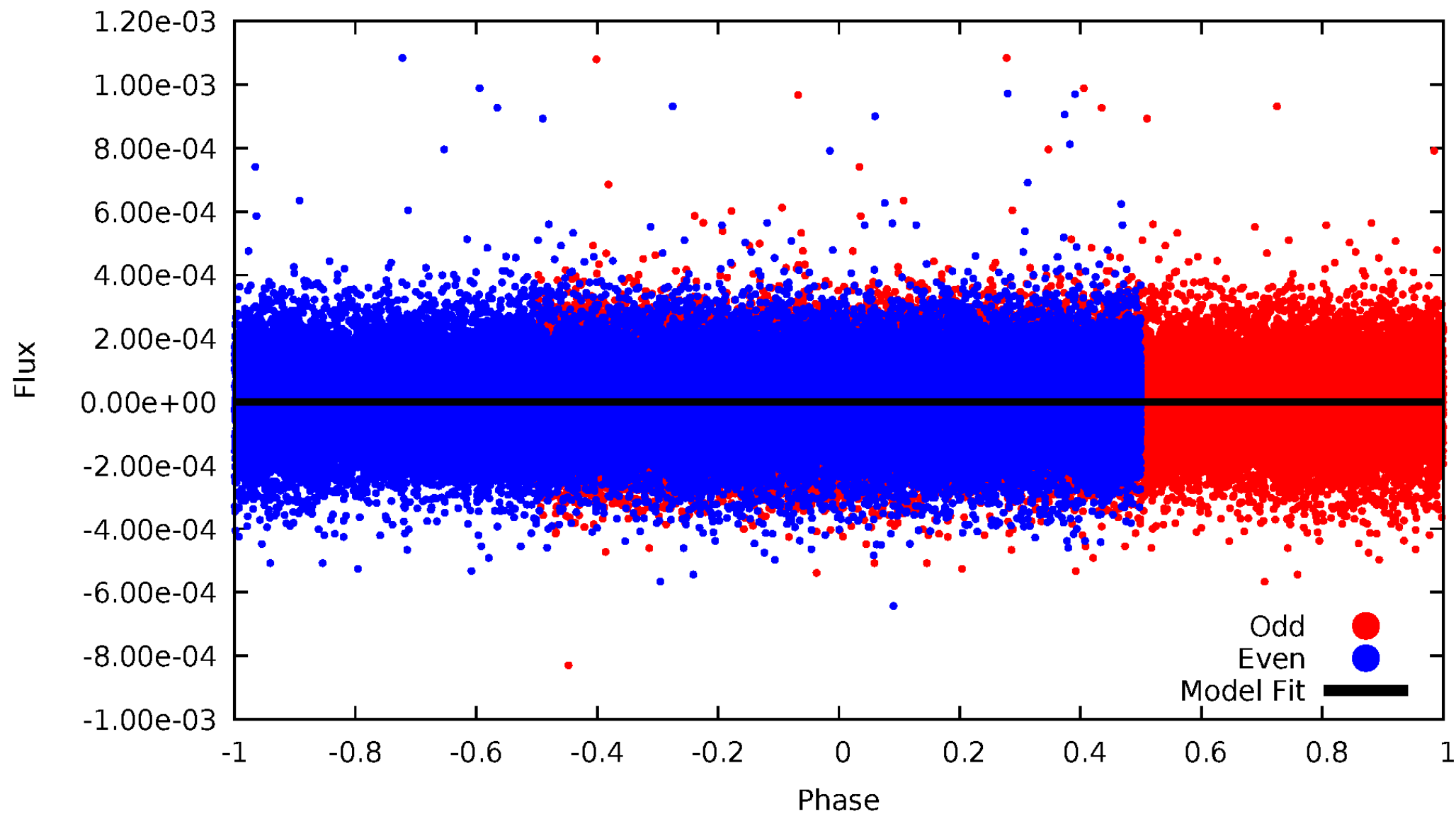


TCE 011967356-01



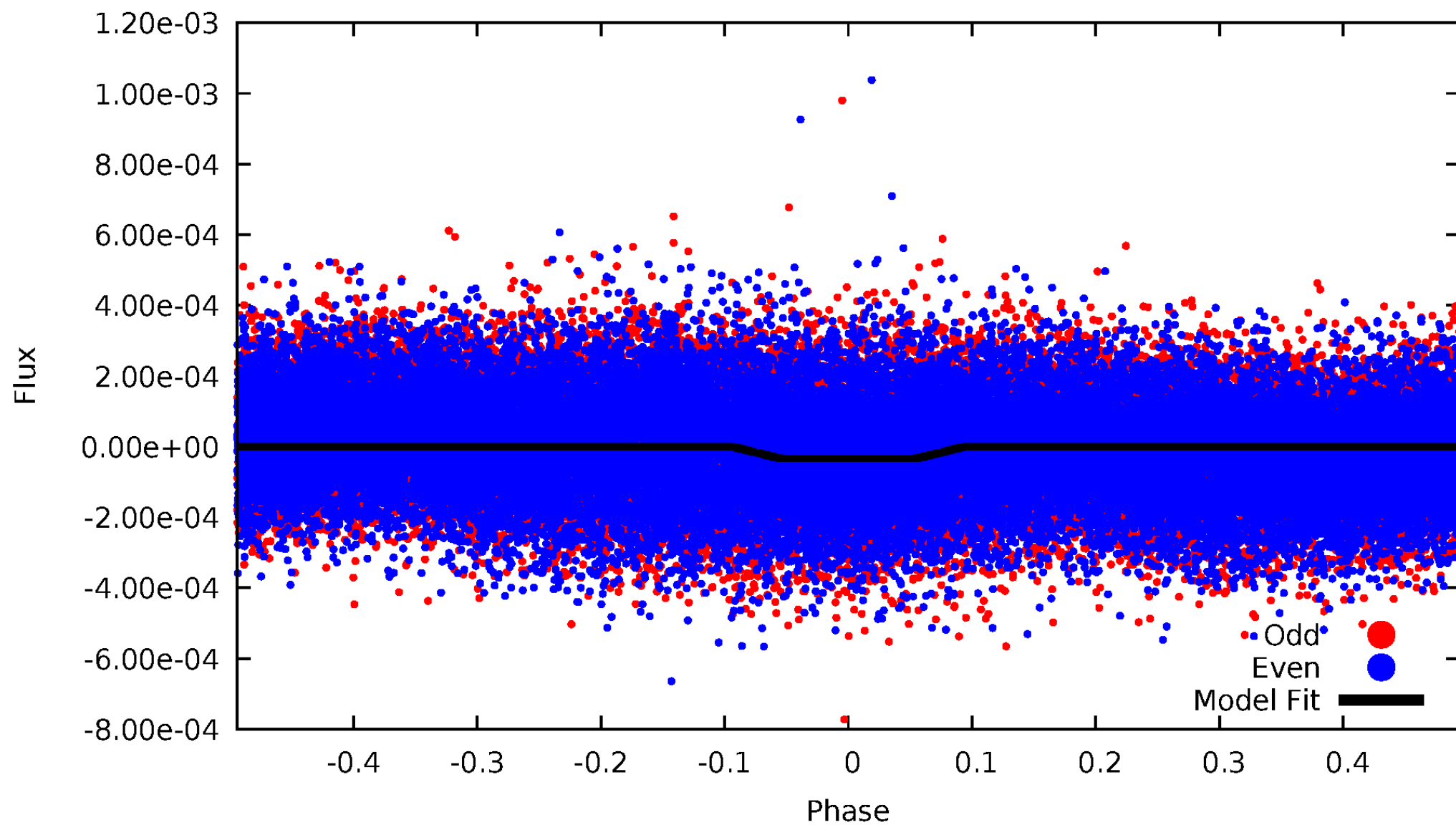
DV Odd/Even

TCE 011967356-01



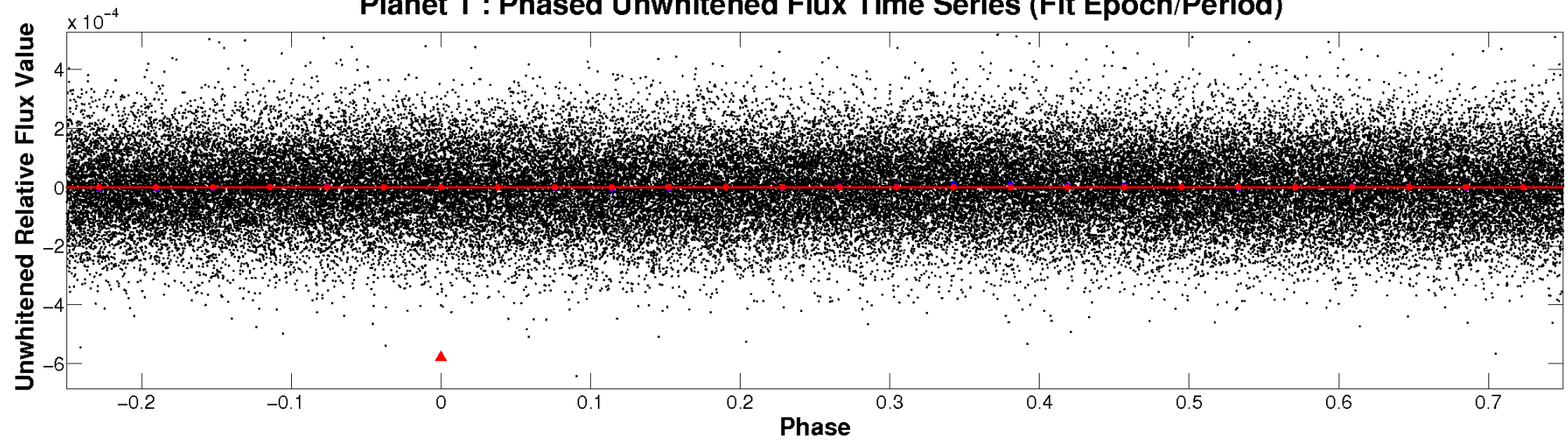
ALT Odd/Even

TCE 011967356-01

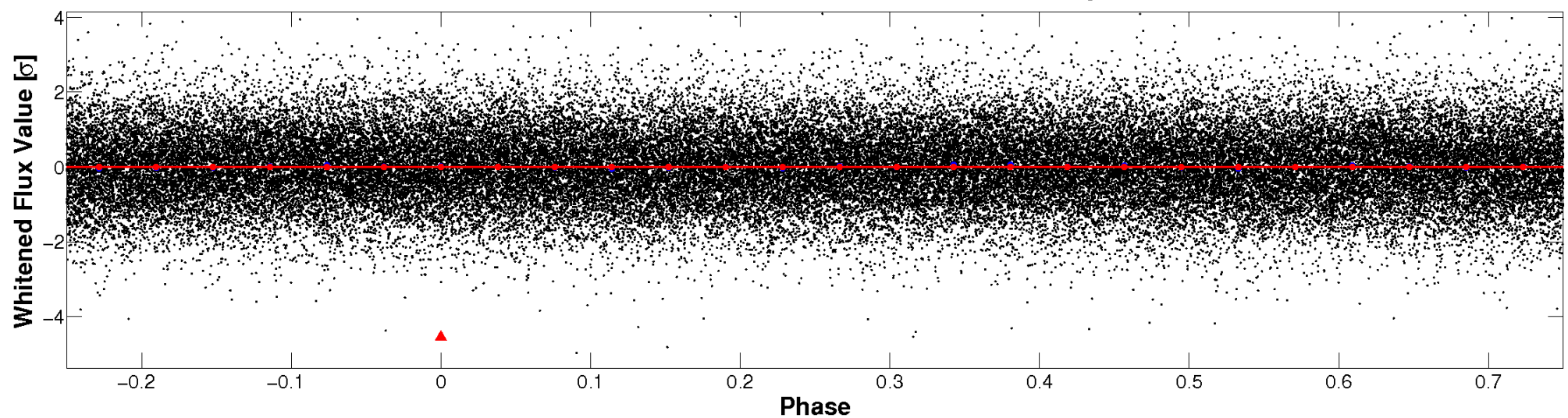


Non-Whitened Vs. Whitened Light Curve

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

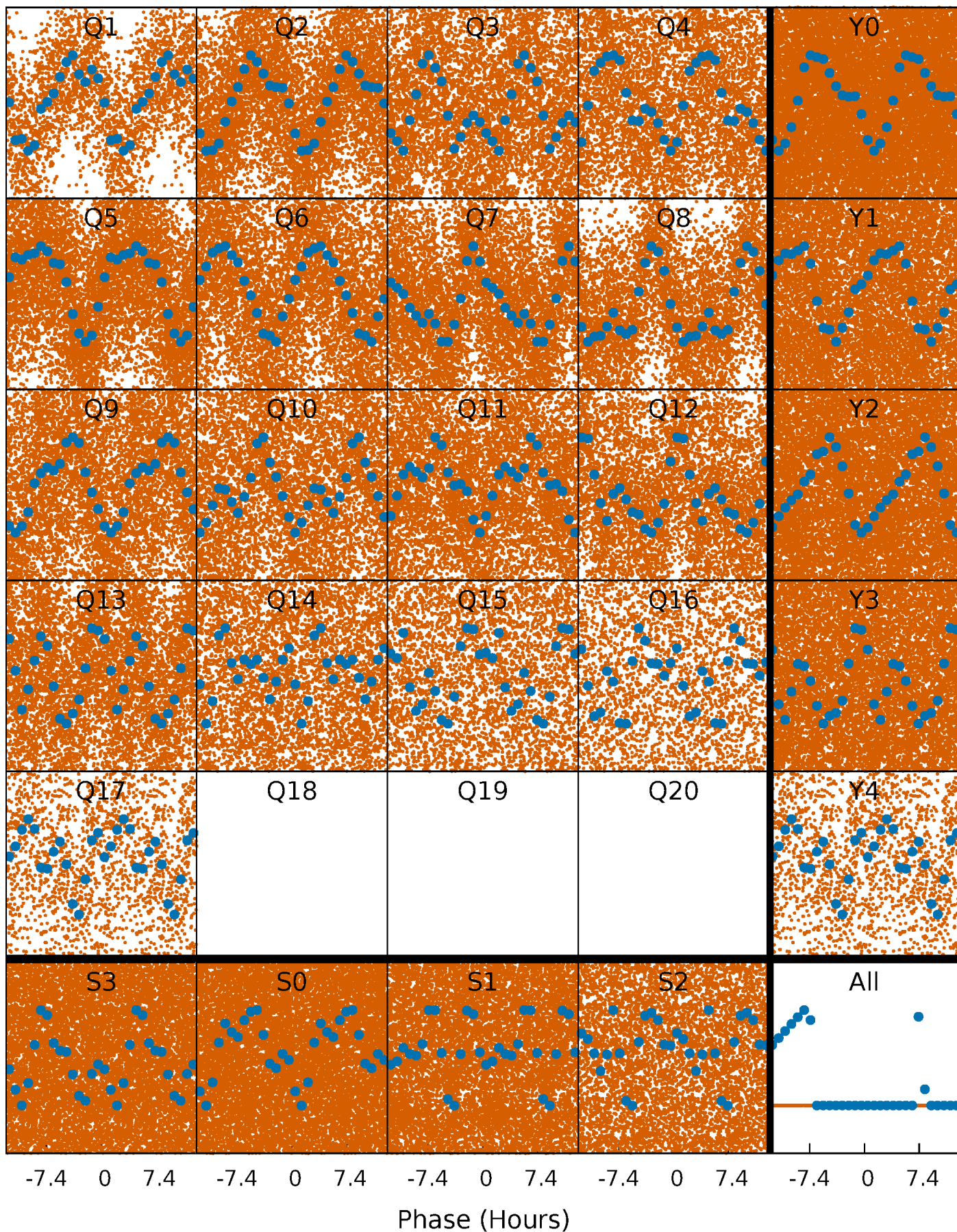


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



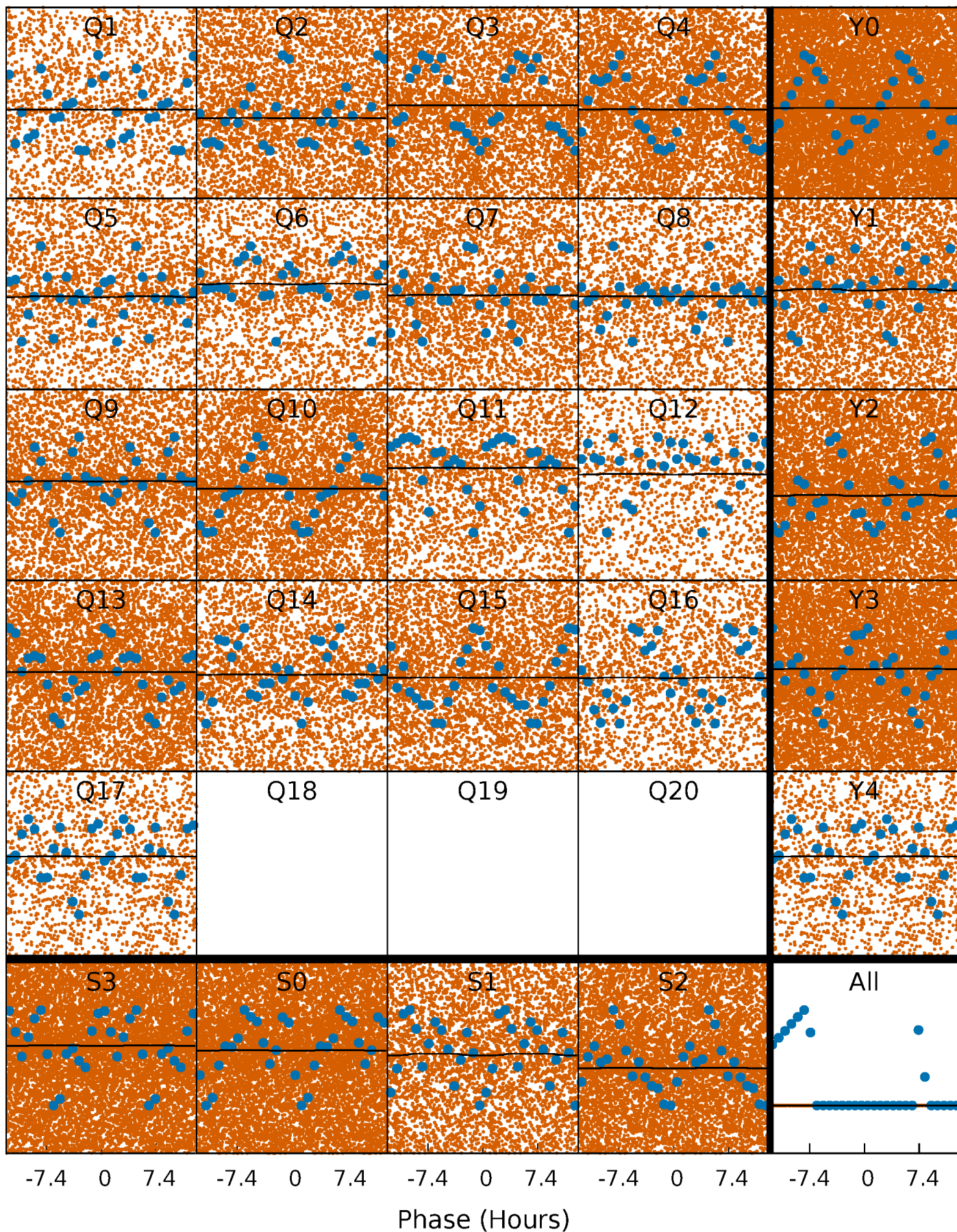
PDC Quarter-Phased Transit Curves

TCE 011967356-01 P= 0.536817 Days $T_0=132.003930$ (BKJD)



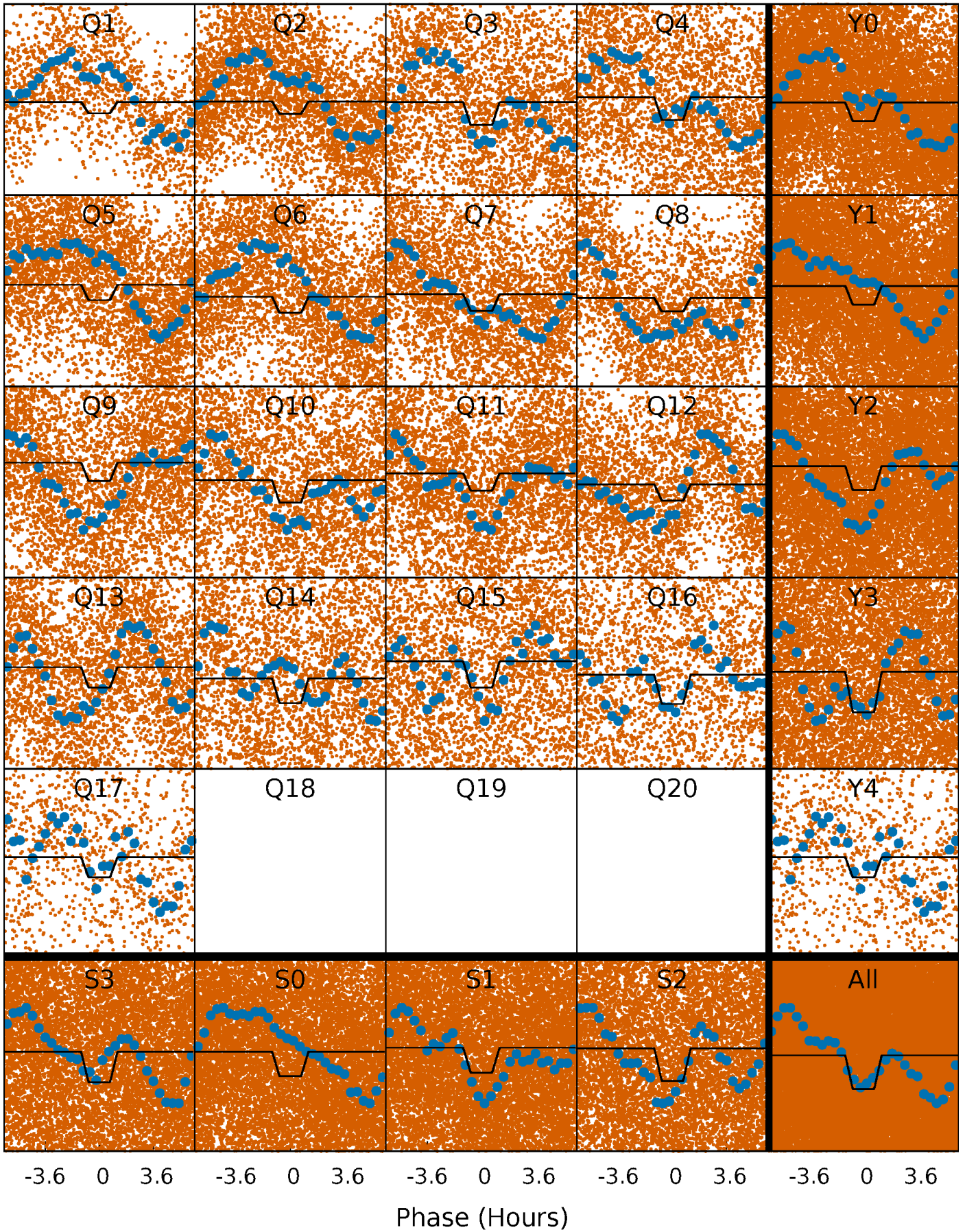
DV Quarter-Phased Transit Curves

TCE 011967356-01 P= 0.536817 Days $T_0=132.003930$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

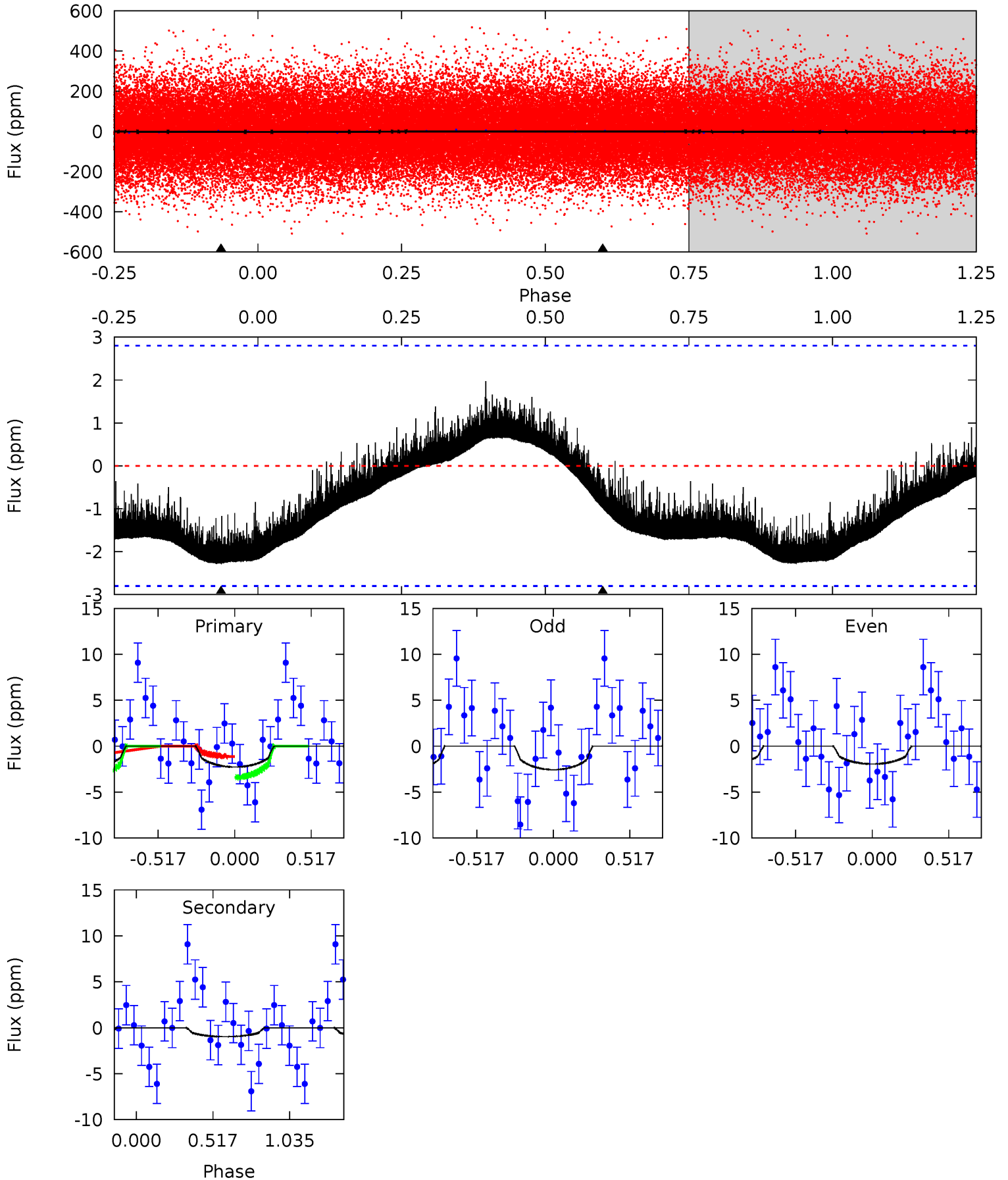
TCE 011967356-01 P= 0.536526 Days $T_0=131.939606$ (BKJD)



DV Model-Shift Uniqueness Test

011967356-01, P = 0.536817 Days, E = 131.467113 Days

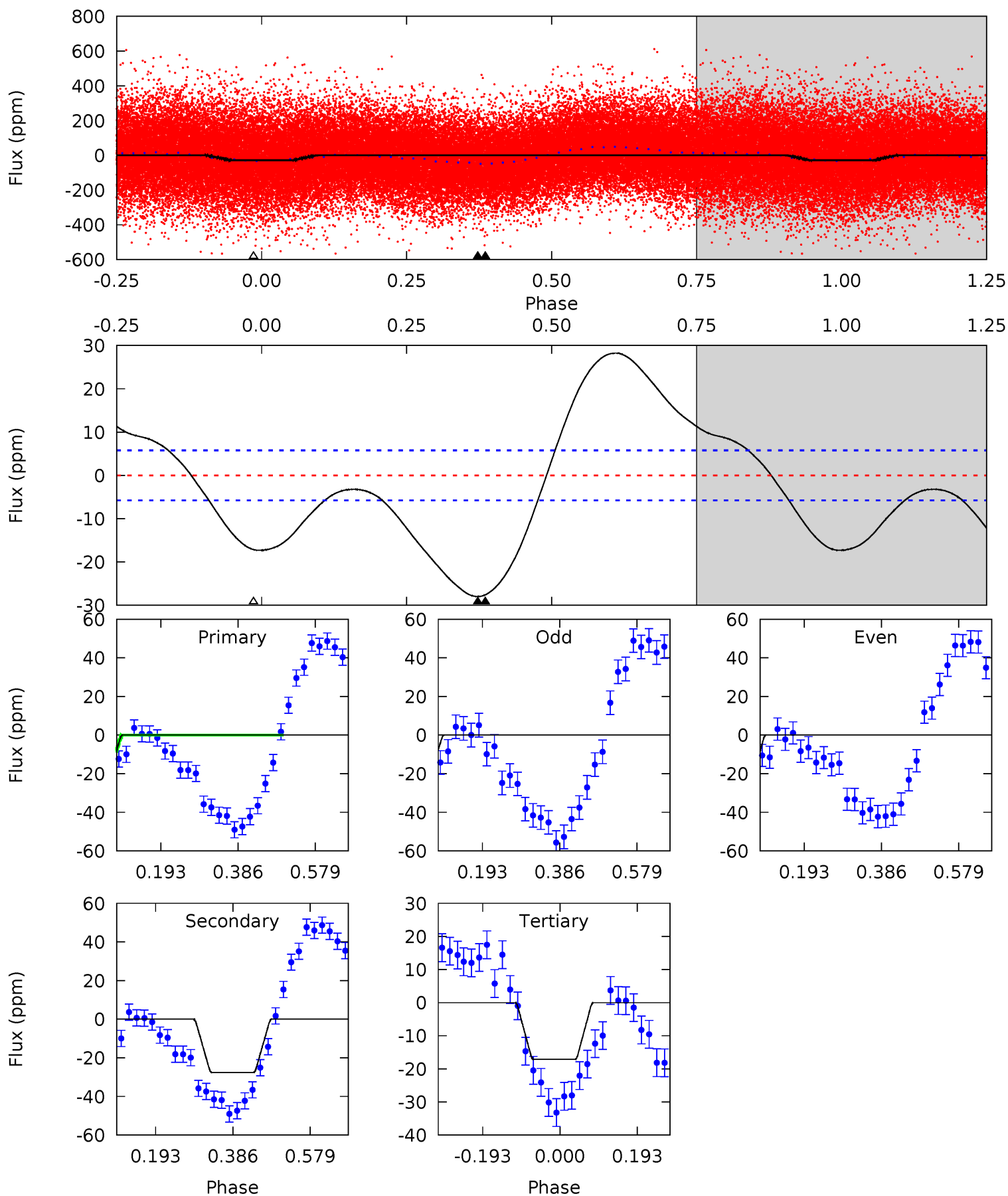
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.41	1.46	0	0	4.21	0.65	0.28	3.41	3.41	1.46	1.46	0.47	1.76	0.46	1.66



Alt Model-Shift Uniqueness Test

011967356-01, P = 0.536526 Days, E = 131.403080 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.4	21.1	13.1	0	4.42	1.30	11.1	8.30	21.4	8.01	21.1	1.60	1.00	0.50	0.98



Stellar Parameters For KIC 011967356

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7348^{+206}_{-324}	$3.769^{+0.376}_{-0.094}$	$0.100^{+0.200}_{-0.350}$	$3.061^{+0.447}_{-1.341}$	$2.008^{+0.094}_{-0.531}$	$0.099^{+0.321}_{-0.030}$
	+3%/-4%	+10%/-2%	+200%/-350%	+15%/-44%	+5%/-26%	+325%/-31%
Source	PHO54	PHO54	PHO54	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 011967356-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1 ± 1	$2.26^{+2.44}_{-1.53}$	6014^{+446}_{-602}	-4798^{+1273}_{-378}	$0.022^{+0.199}_{-0.019}$
Alt.	-28 ± 1	$3.05^{+3.03}_{-2.11}$	6046^{+424}_{-644}	4065^{+5521}_{-8583}	$0.412^{+3.940}_{-0.306}$

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 $A_{obs} \gg 1.0$

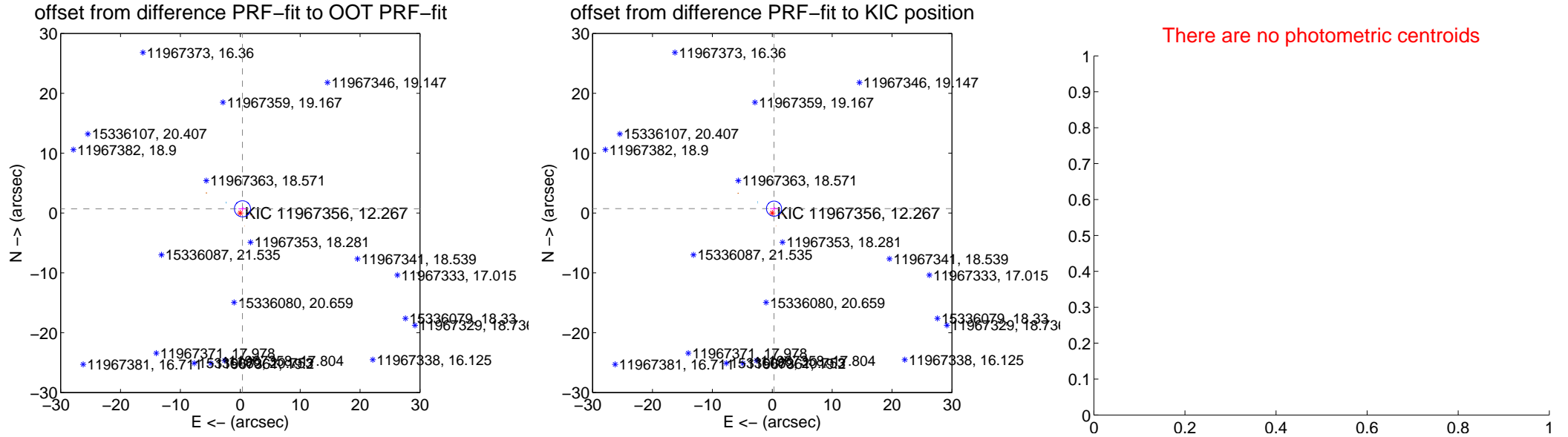
DV Centroid Data

Supplemental centroid analysis for 011967356-01. Kepler magnitude: 12.27. Transit SNR 0.23

There are 4 quarters with good PRF difference image offsets

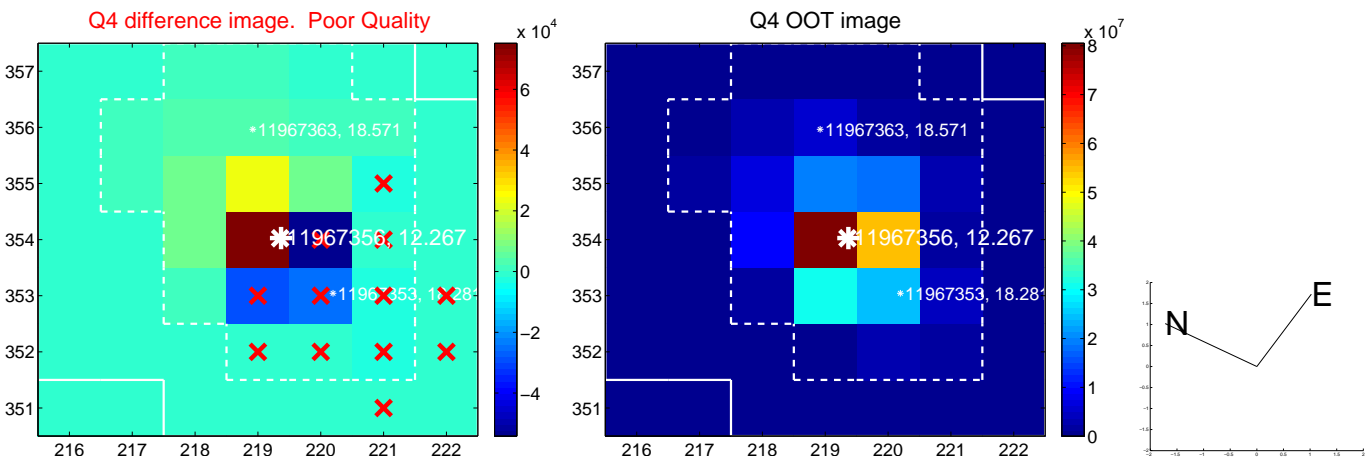
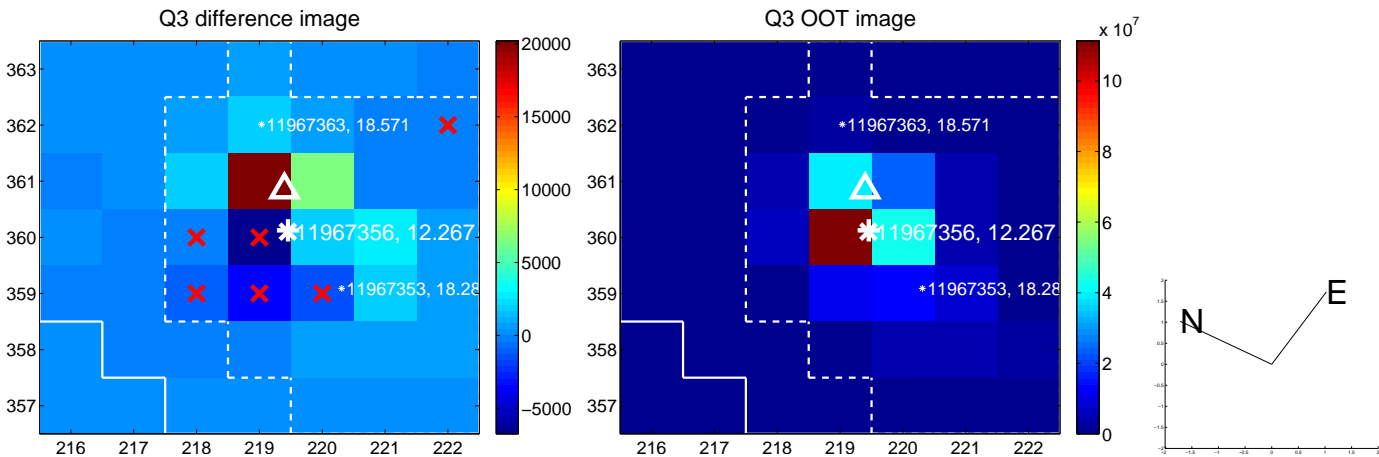
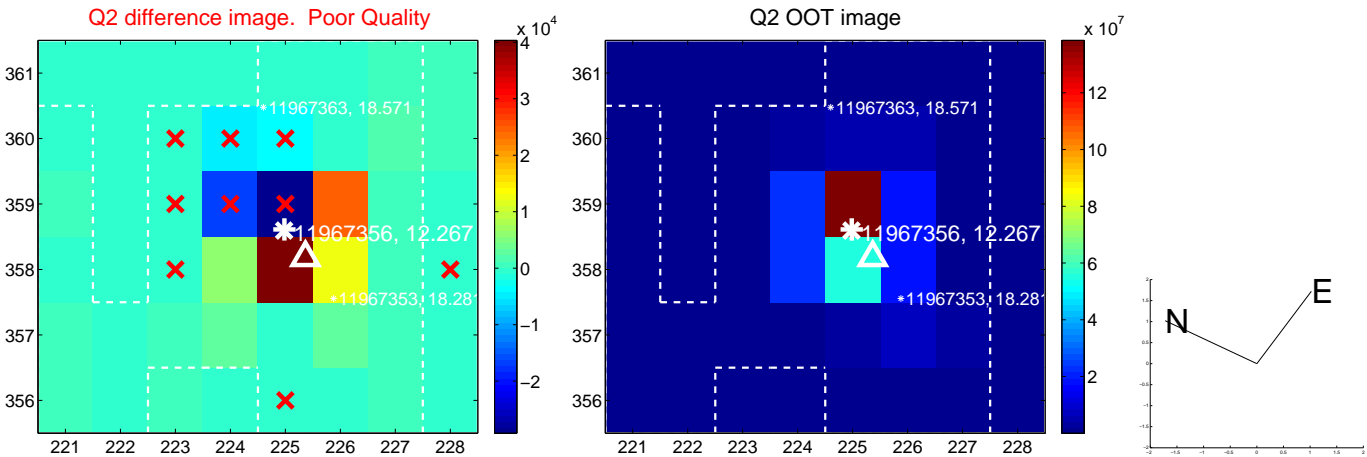
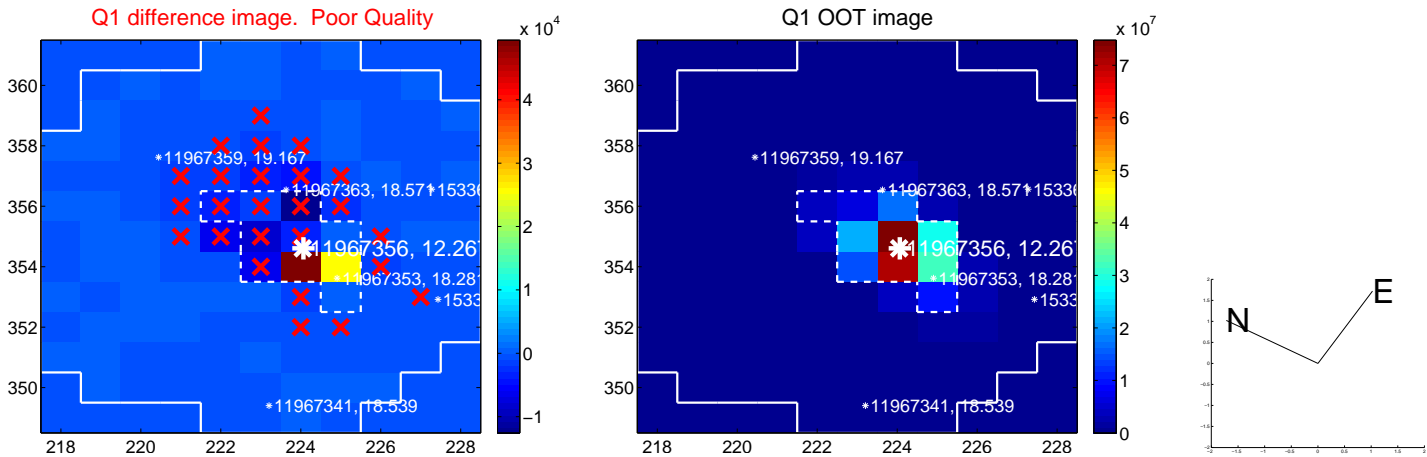
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.789 ± 0.448	1.76	-0.364 ± 0.664	0.699 ± 0.368
PRF-fit source offset from KIC position	0.786 ± 0.421	1.87	-0.297 ± 0.665	0.728 ± 0.365
photometric centroid source offset	—	—	—	—

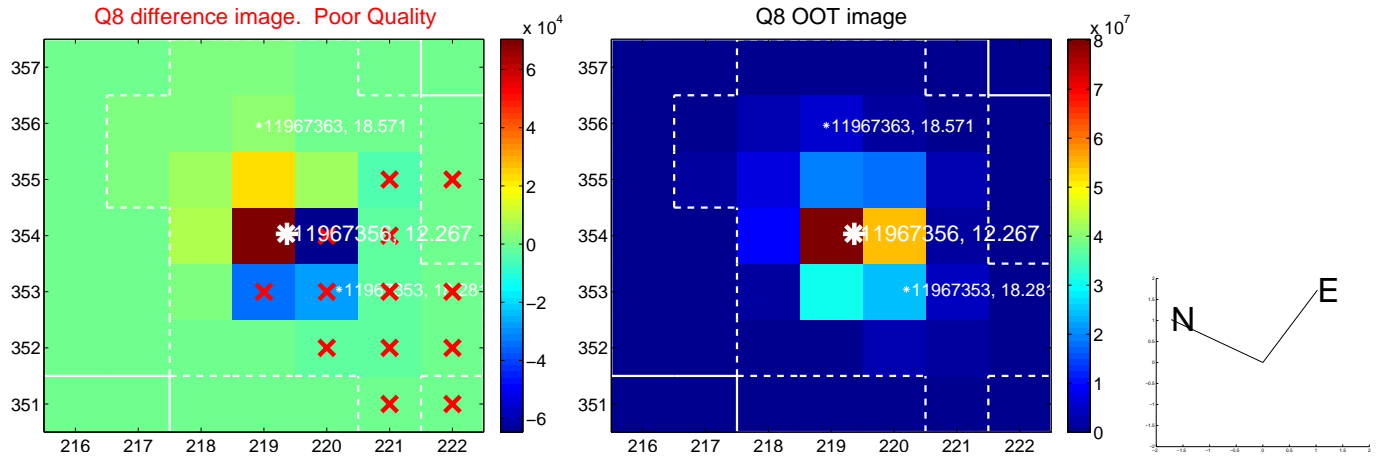
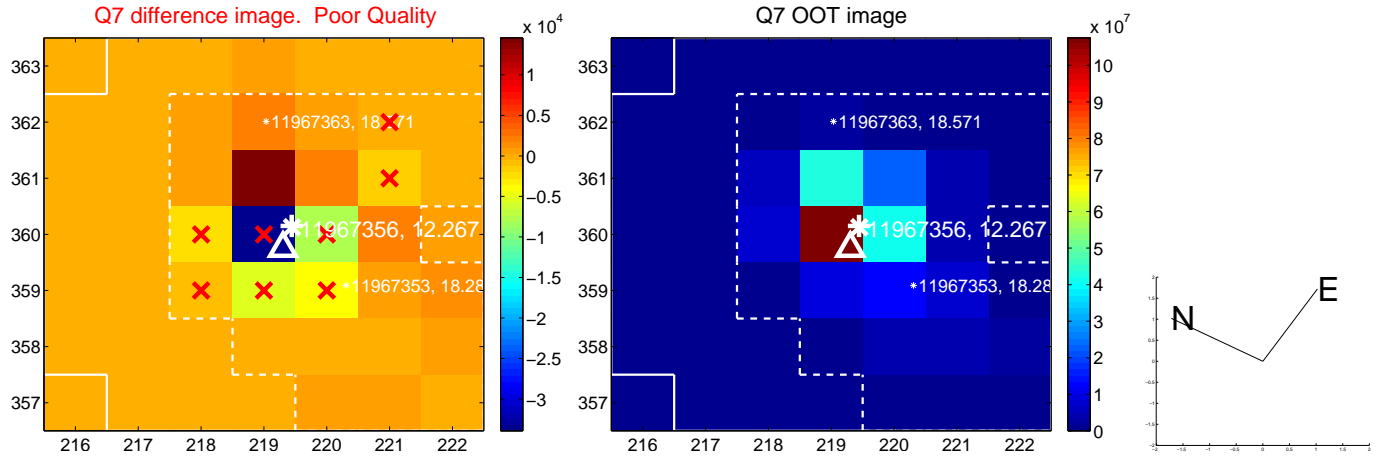
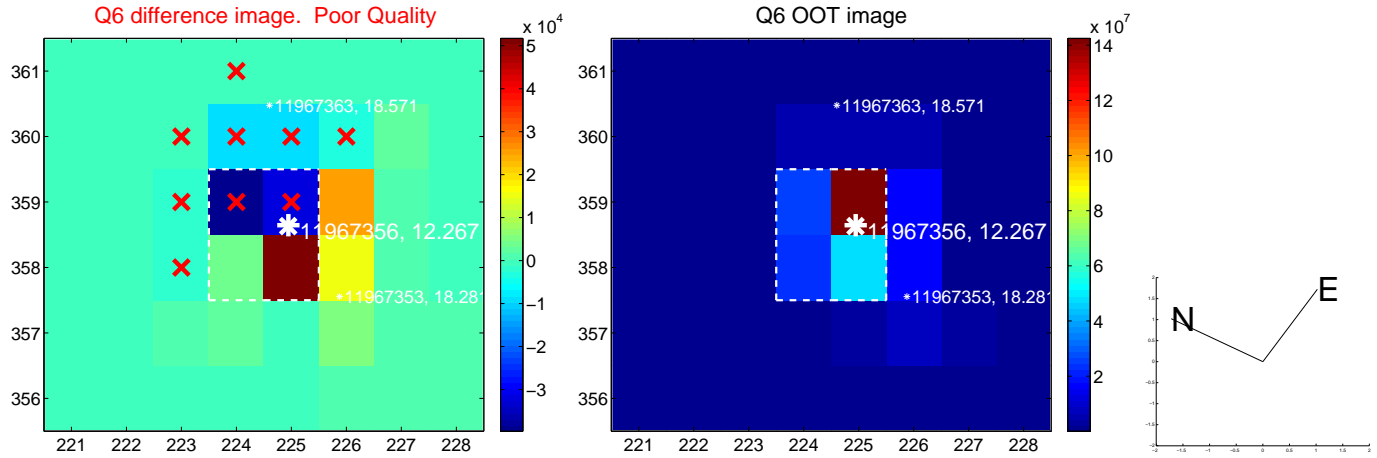
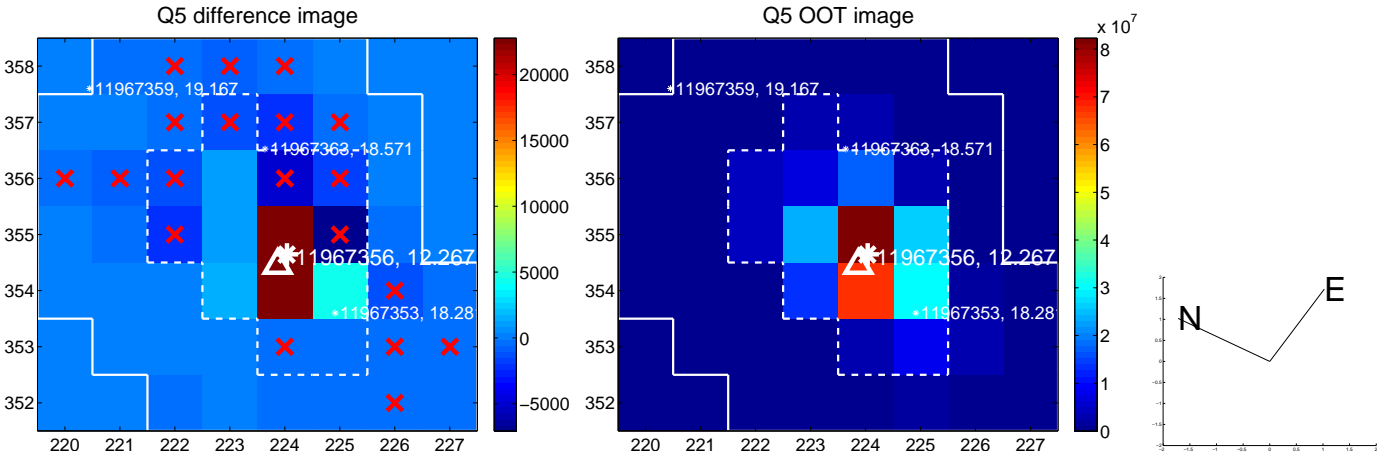


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

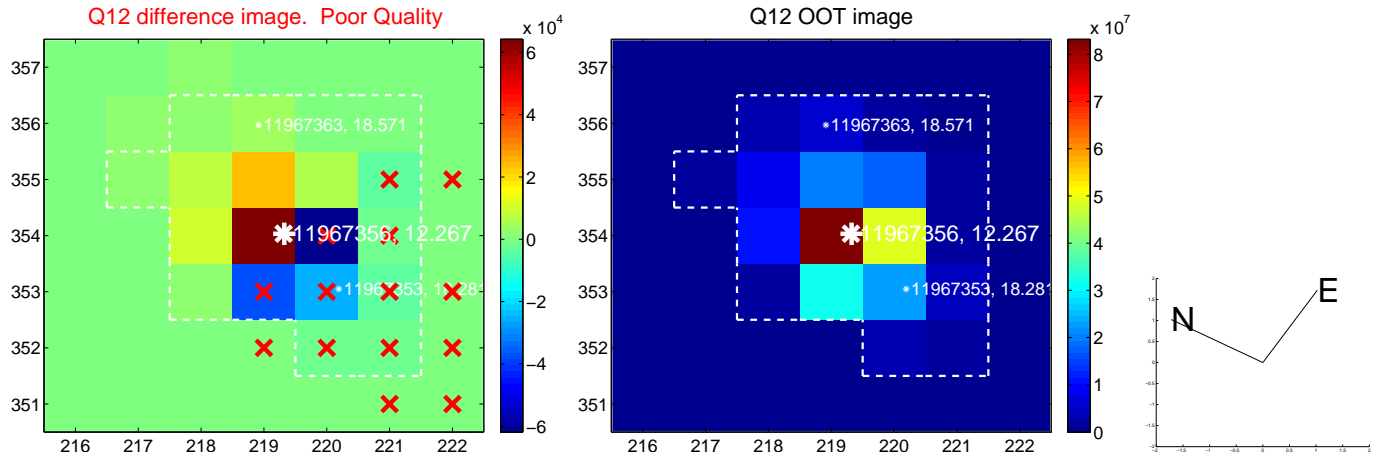
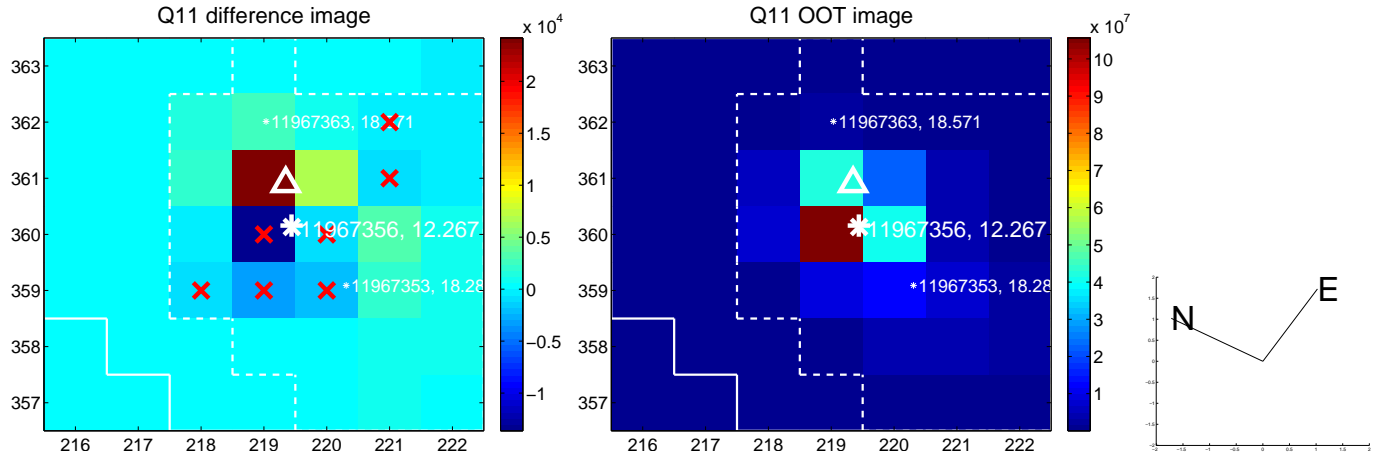
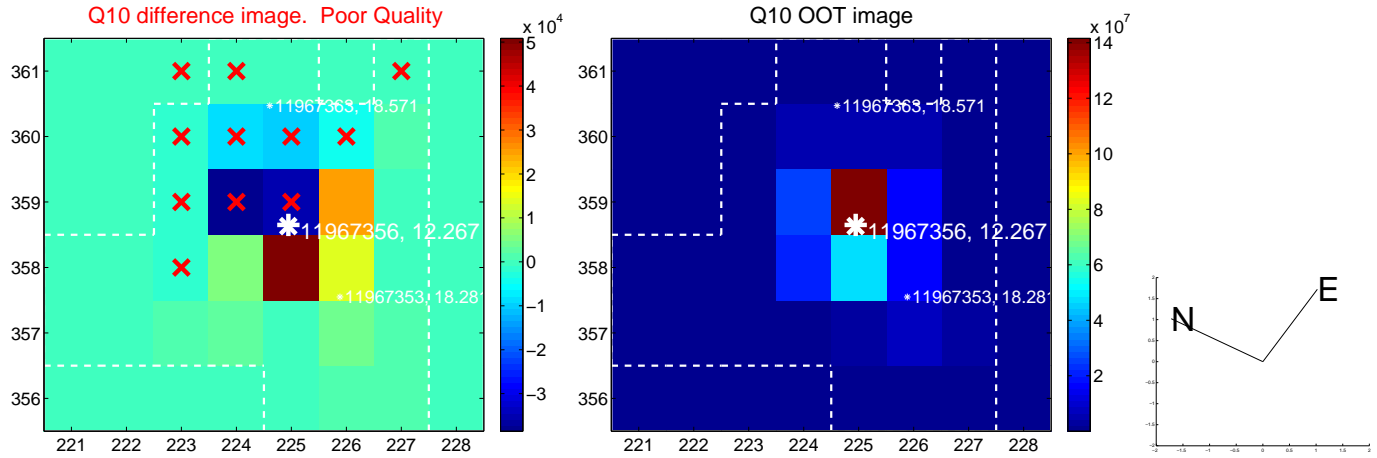
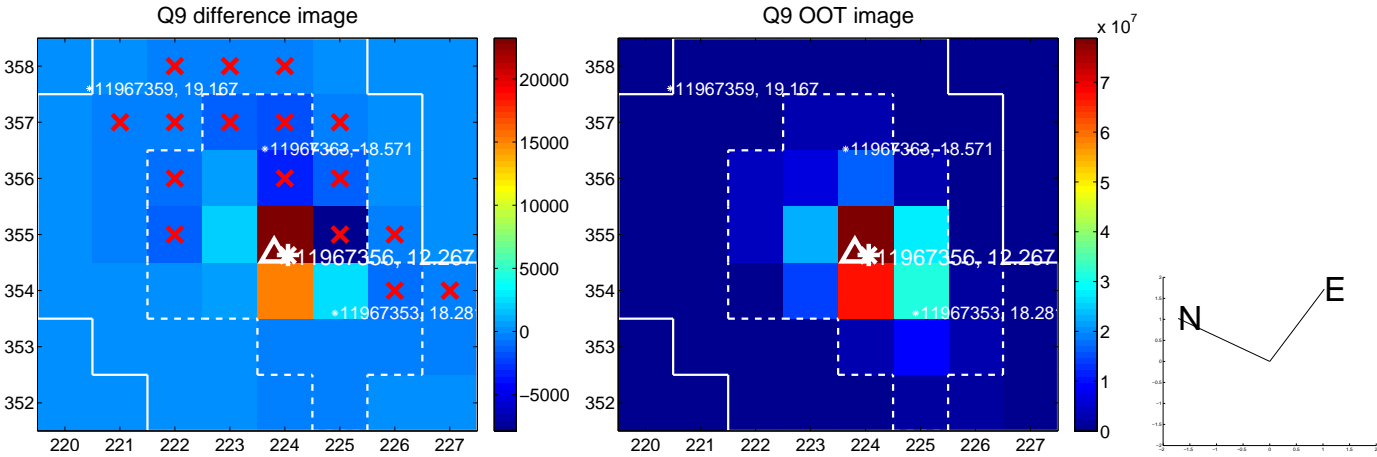
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



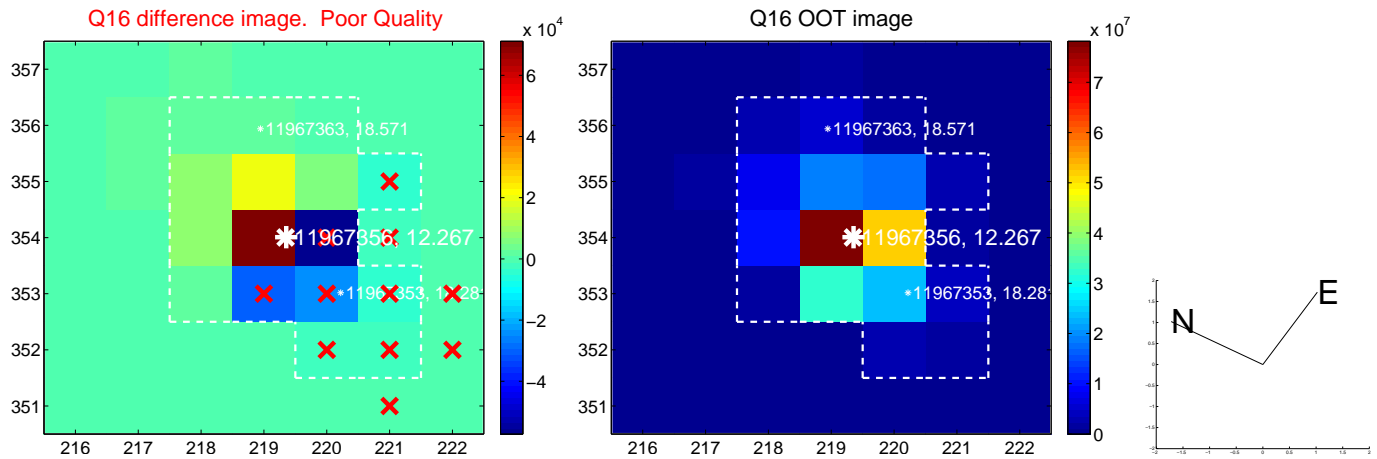
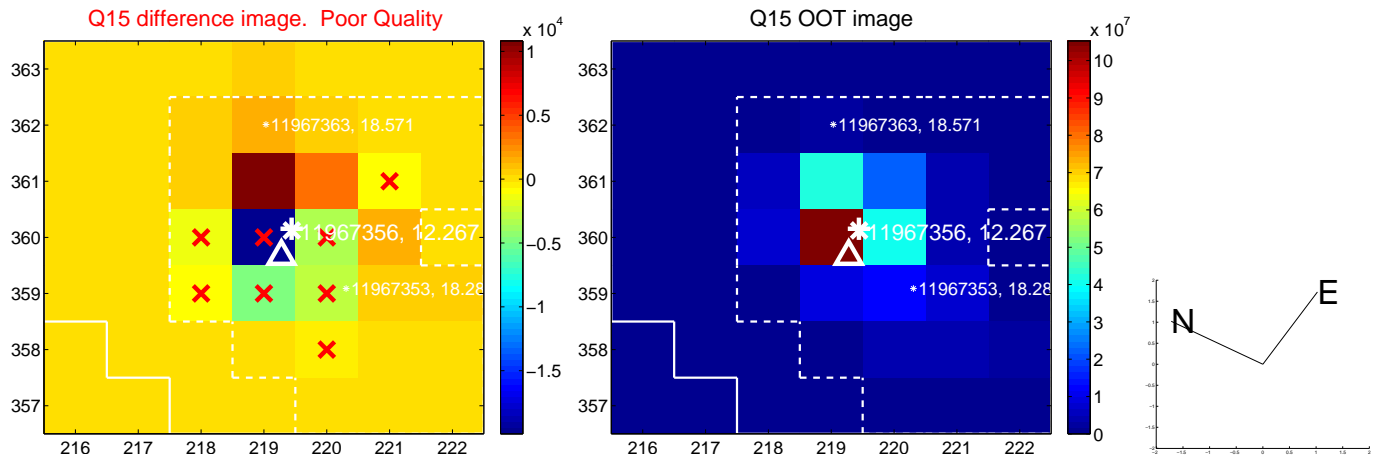
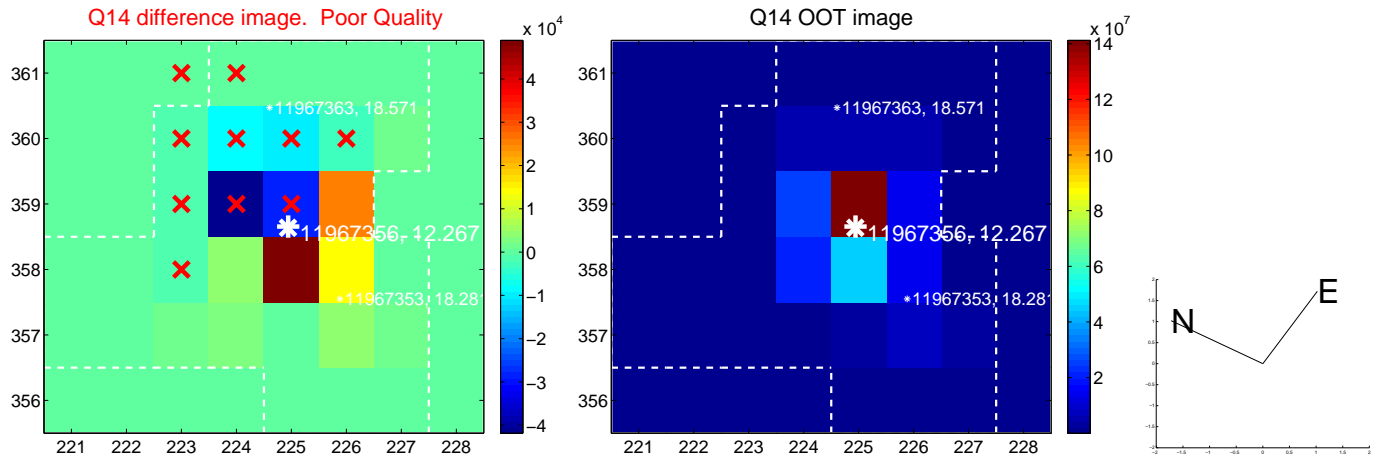
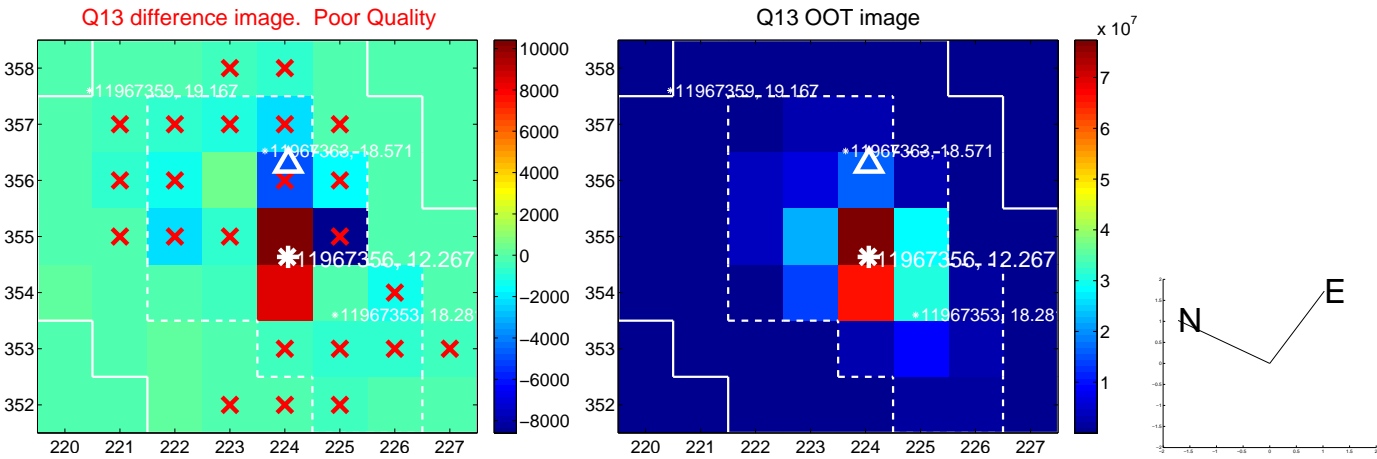
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



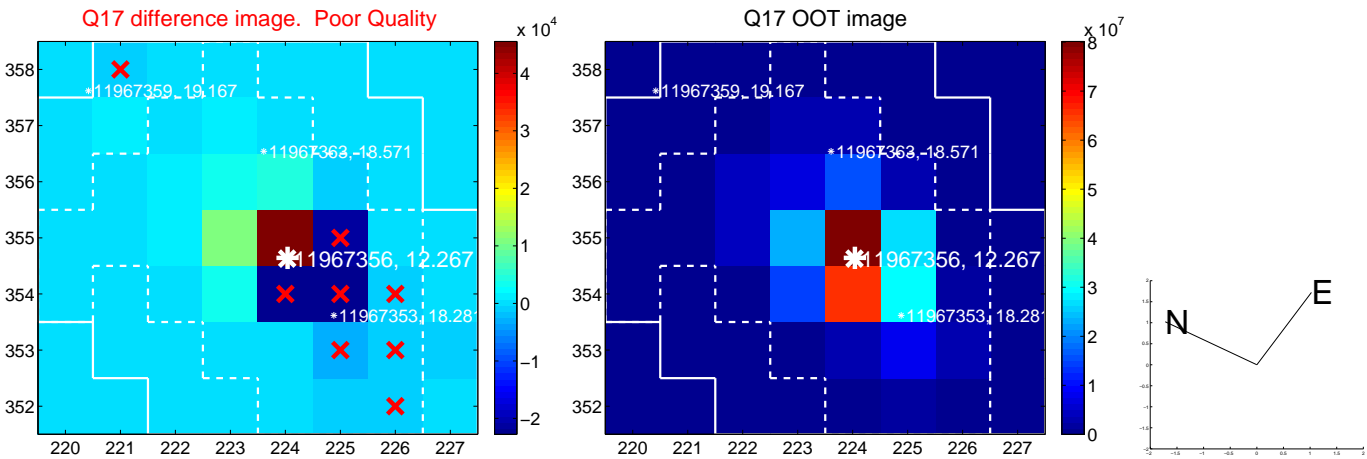
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

