

KIC 011957286

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})
011957286-01	OBS	No	0.953704	131.600777	87.7	3.000	8.2	-1.0	1.76	7502	1.67	19629.02

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011957286-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

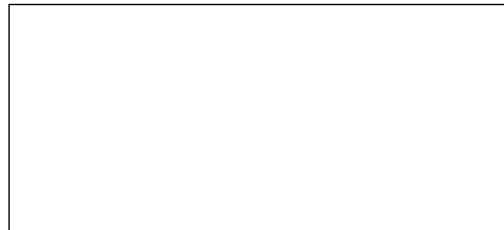
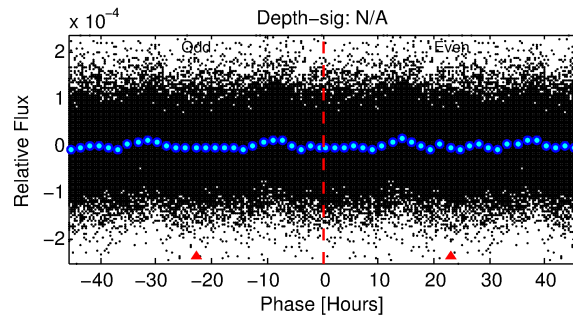
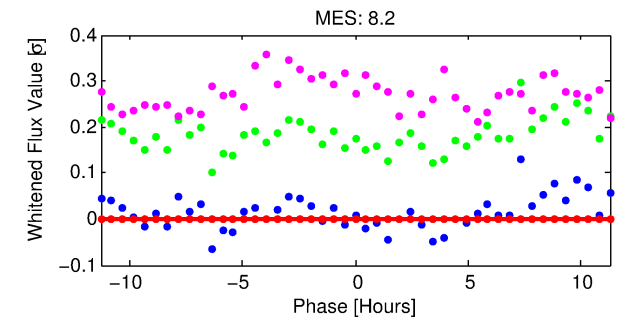
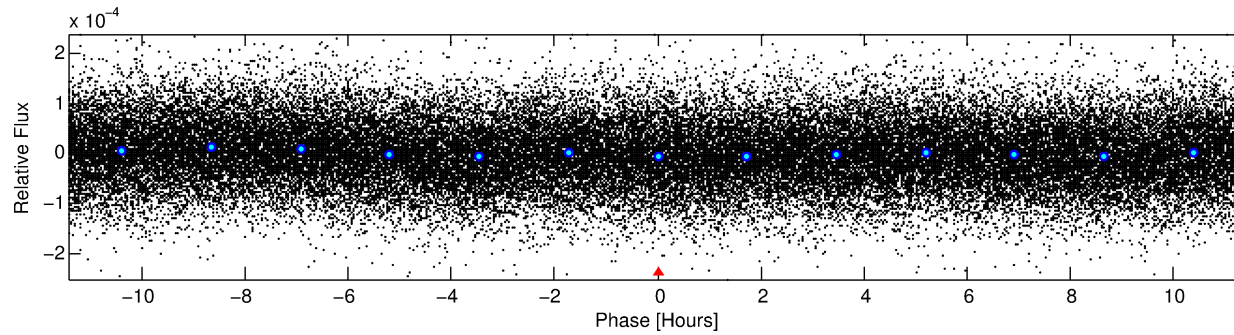
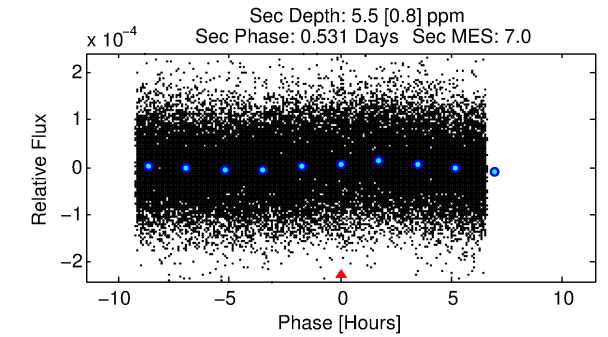
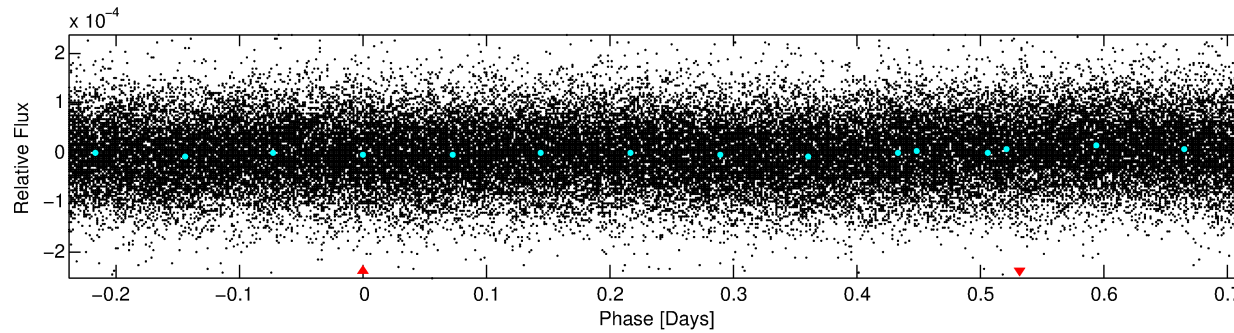
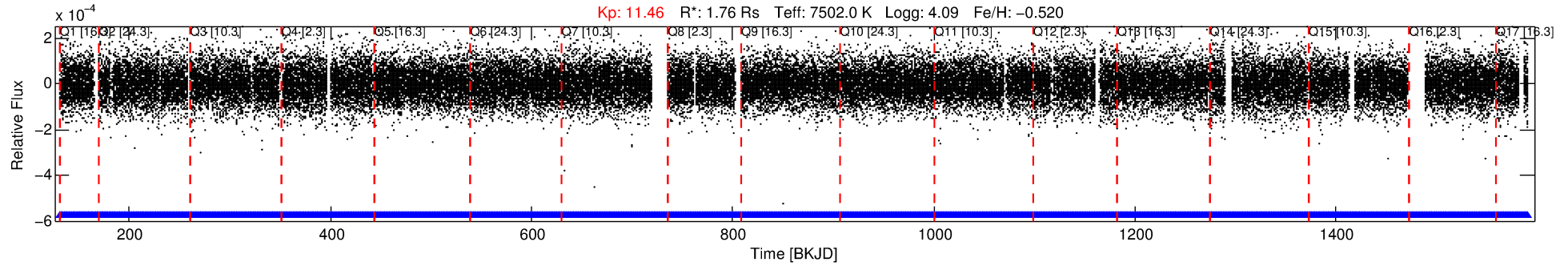
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011957286-01

No Significant Match Found

DV One-Page Summary

KIC: 11957286 Candidate: 1 of 1 Period: 0.954 d



TPS TCE Results:

Period = 0.95370 d
Epoch = 131.6008 BKJD

DV fit results are unavailable

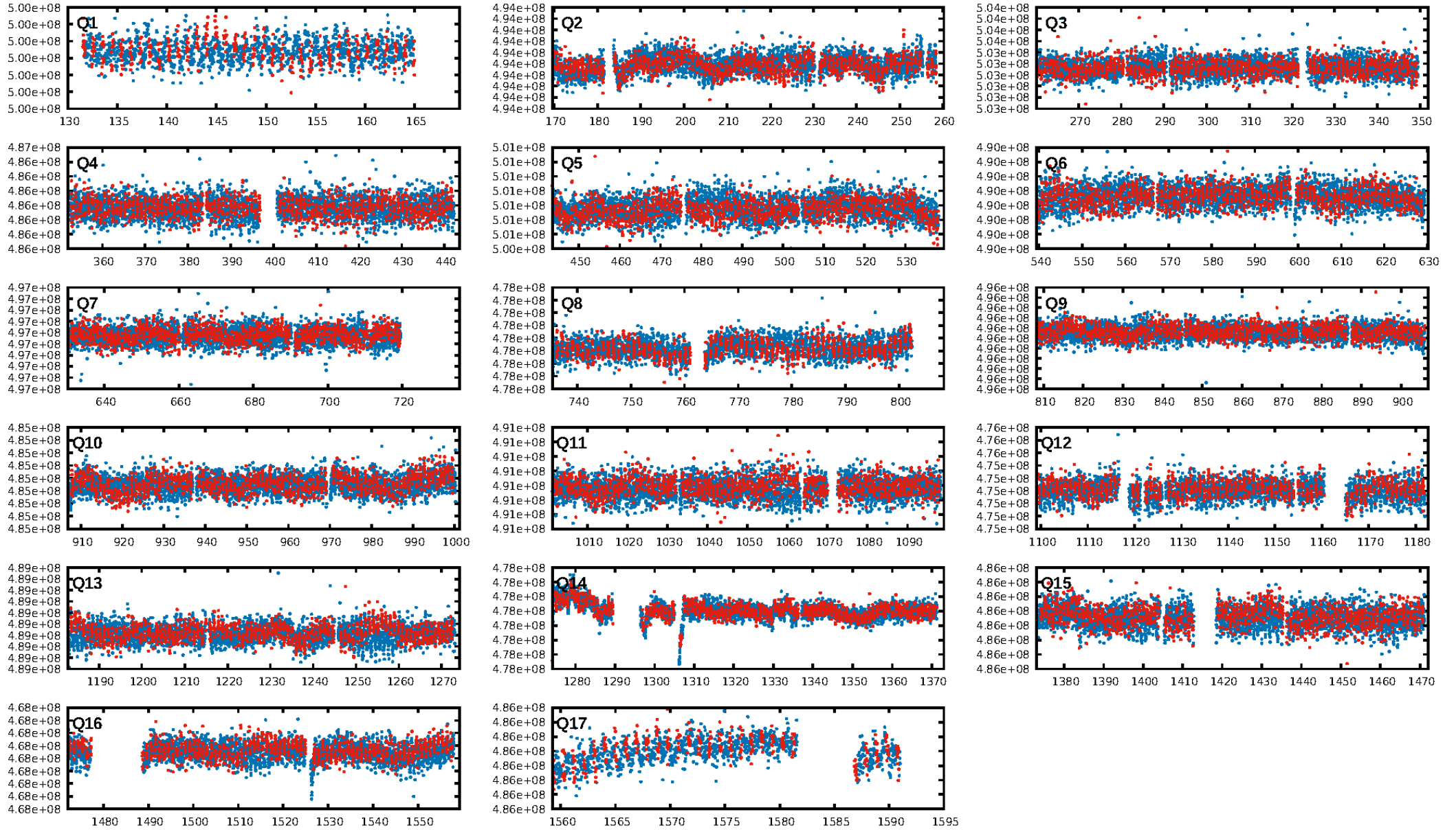
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.74e-14
RollingBand-fgt: 1.00 [1362/1362]
GhostDiagnostic-chr: -138.8
Centroid-sig: 11.4%
Centroid-so: 1.075 arcsec [1.35σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 1.00 [17/17]

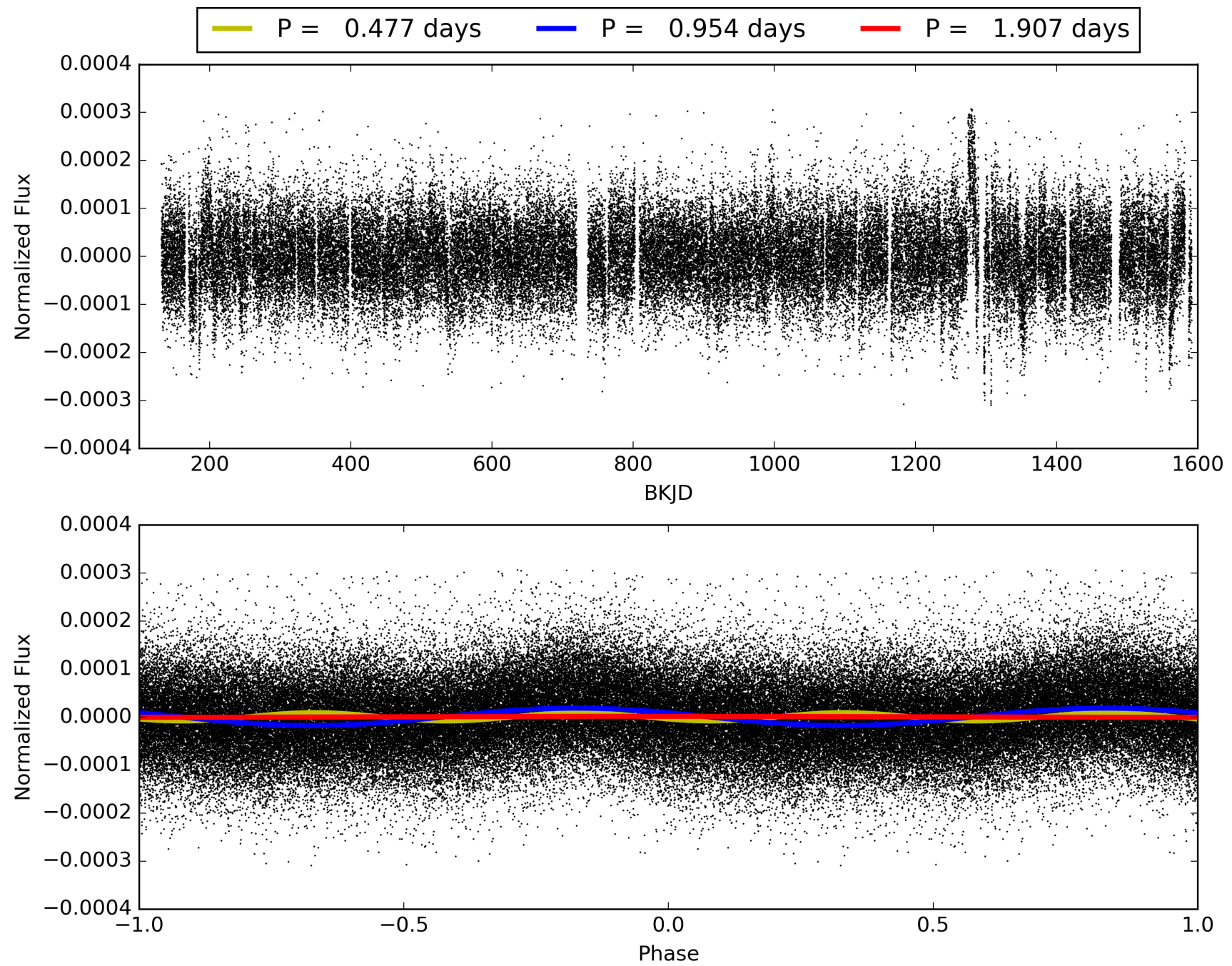
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 00:30:18 Z

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

TCE 011957286-01, PDC Light Curves

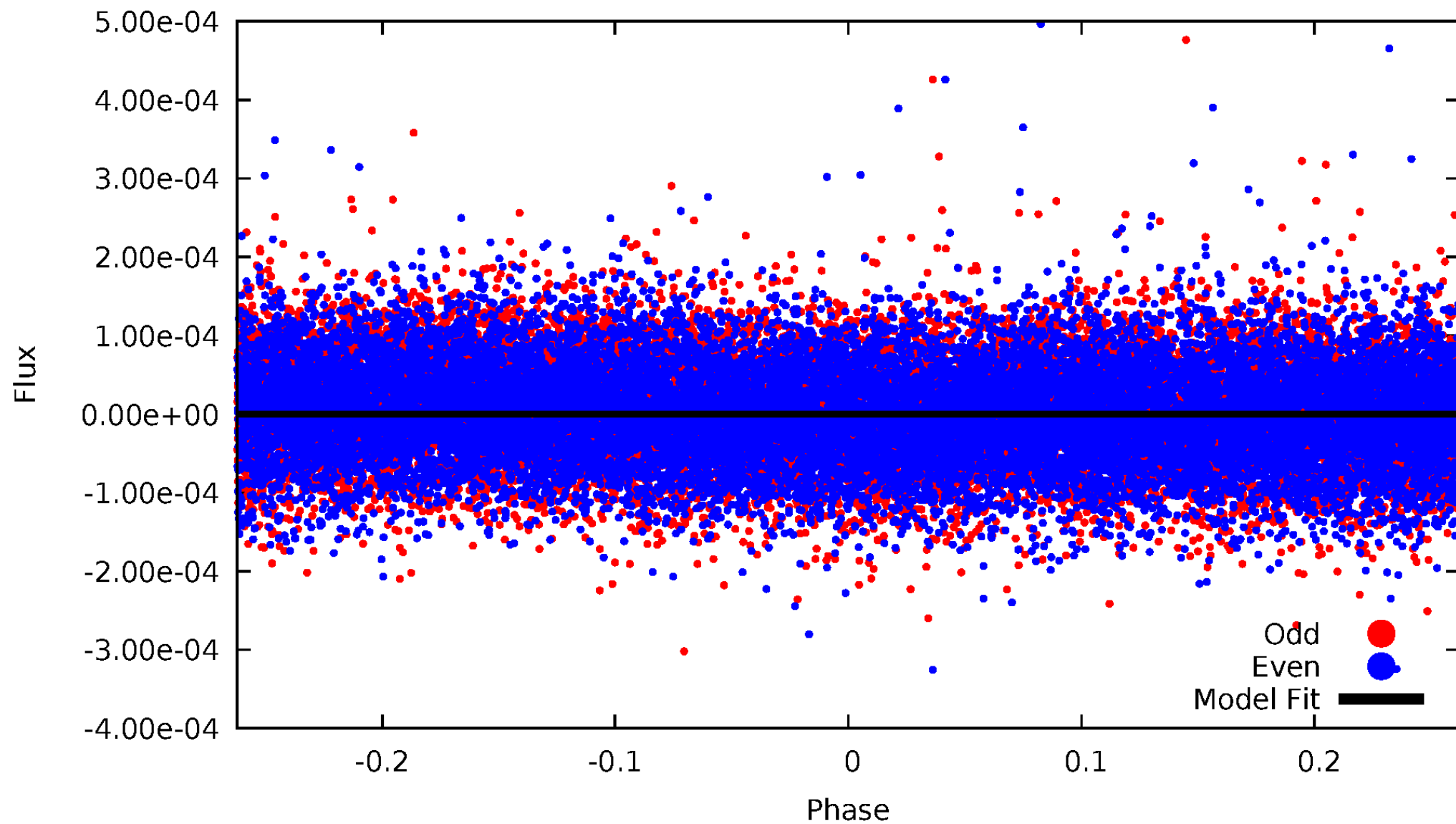


TCE 011957286-01



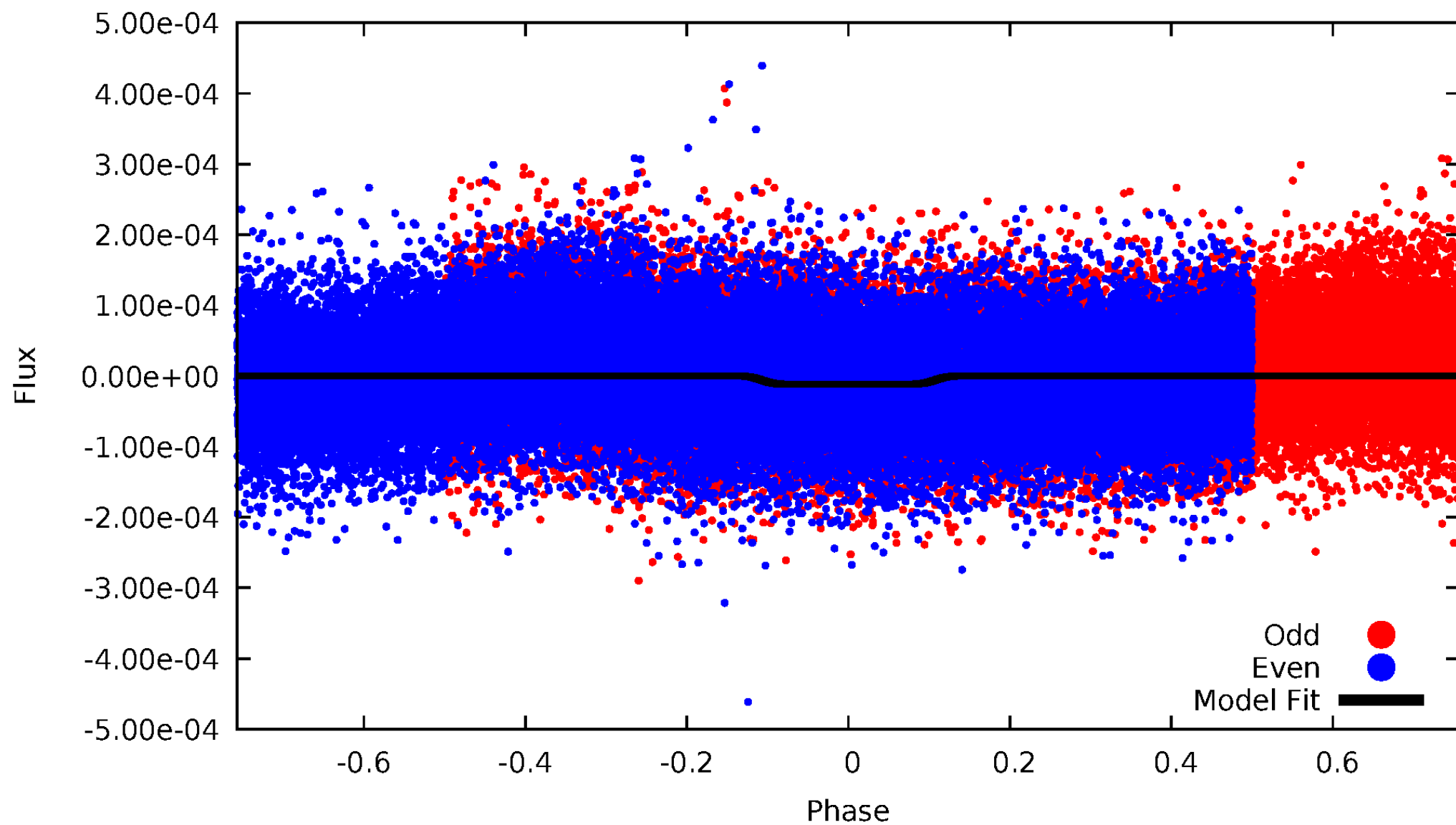
DV Odd/Even

TCE 011957286-01

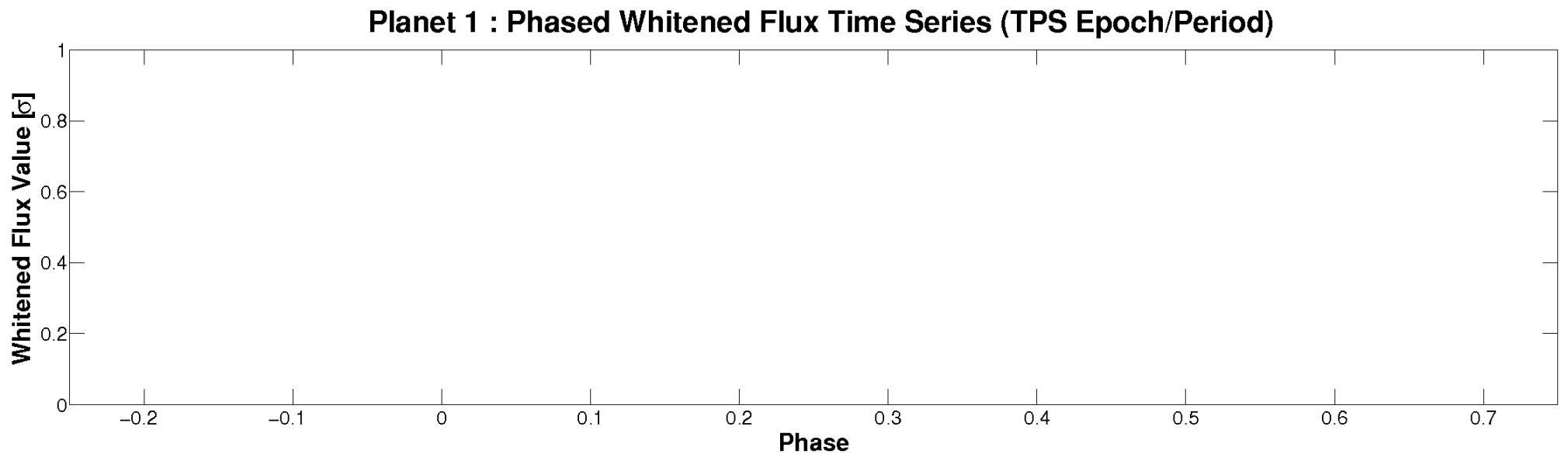
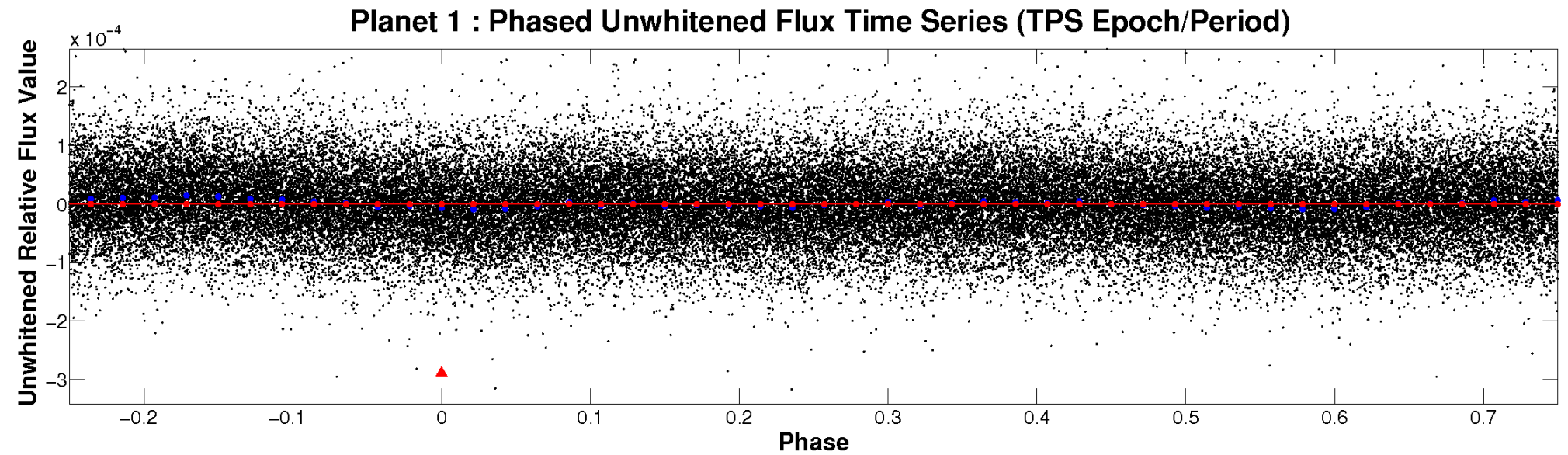


ALT Odd/Even

TCE 011957286-01

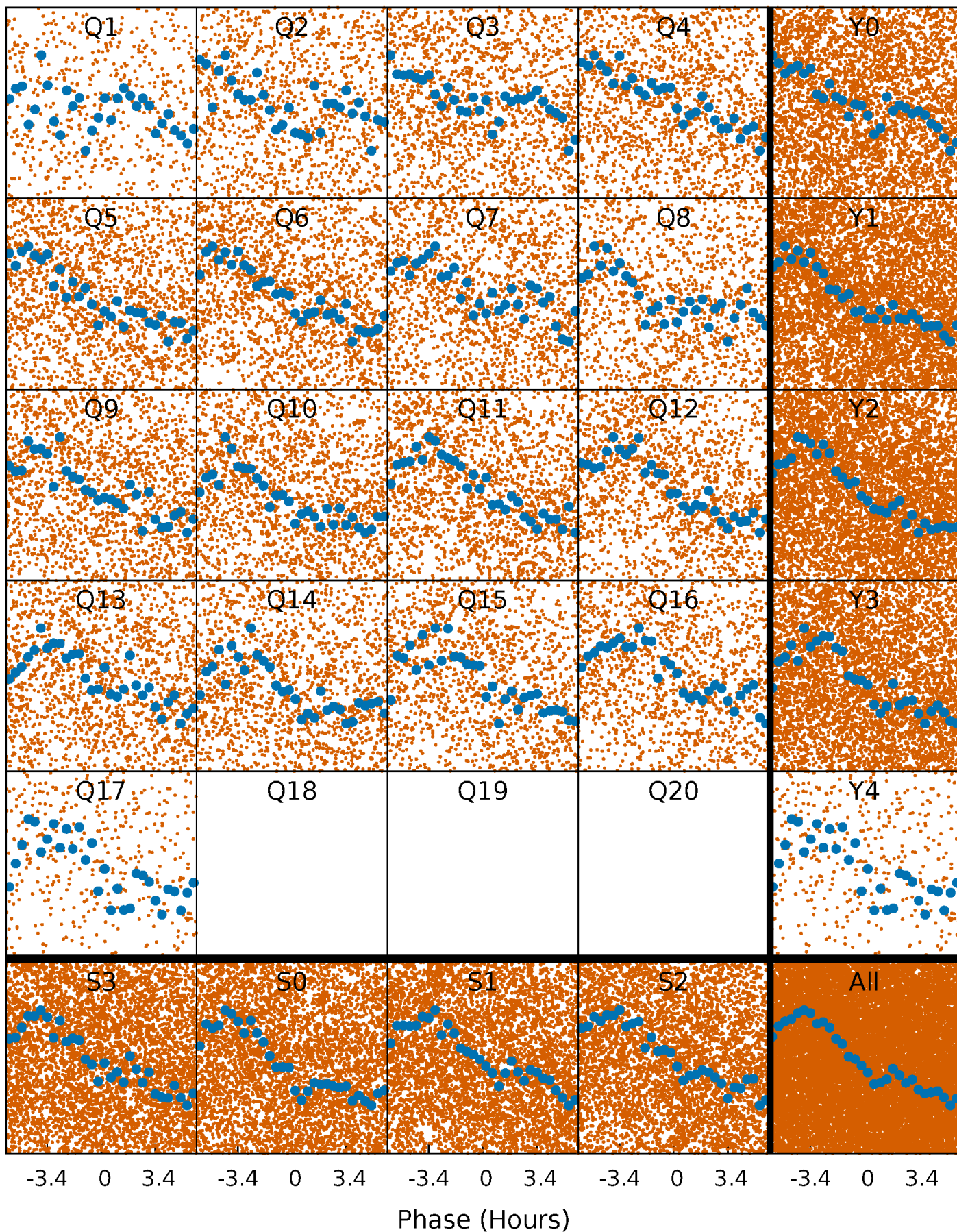


Non-Whitened Vs. Whitened Light Curve



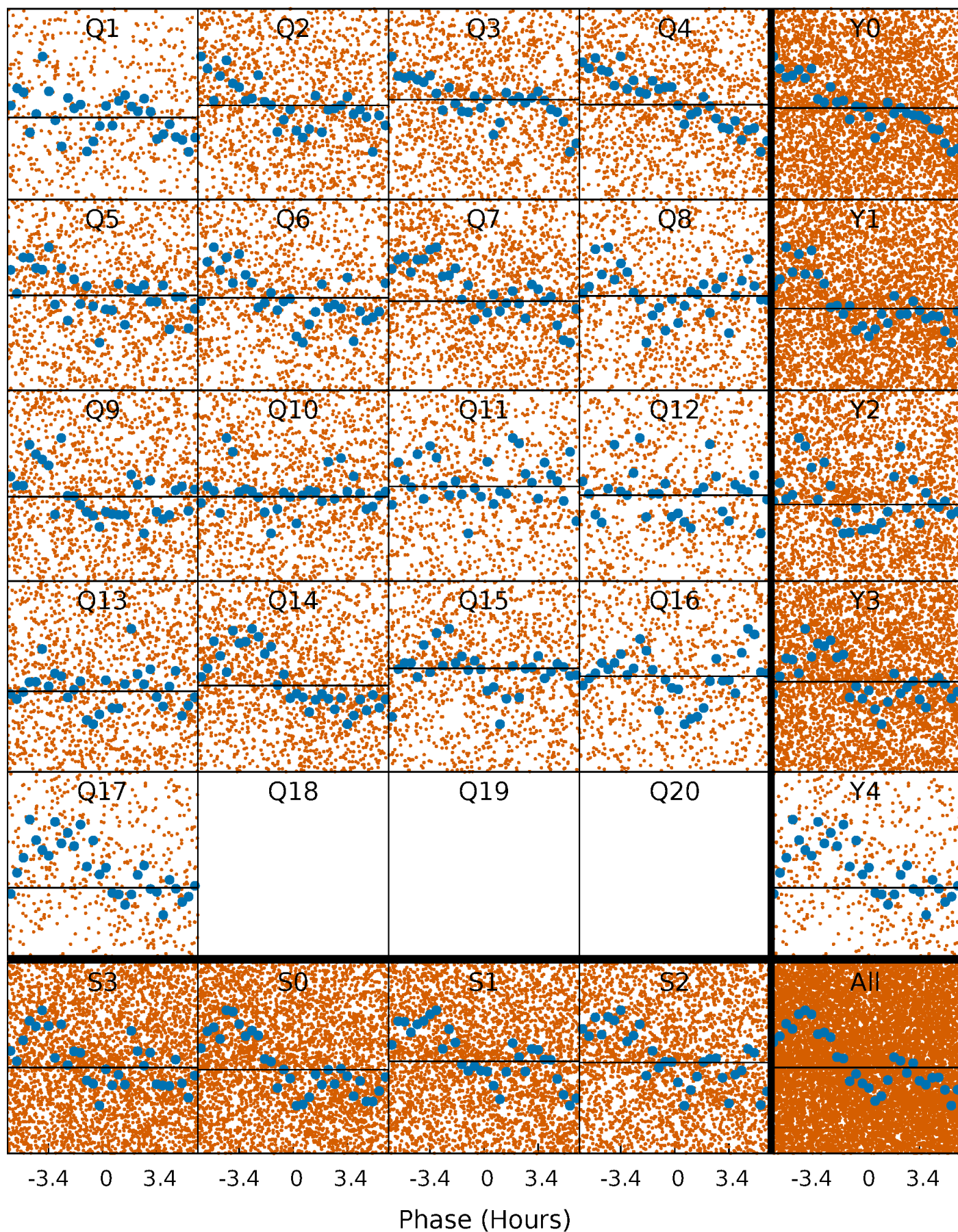
PDC Quarter-Phased Transit Curves

TCE 011957286-01 P= 0.953704 Days $T_0=131.600777$ (BKJD)



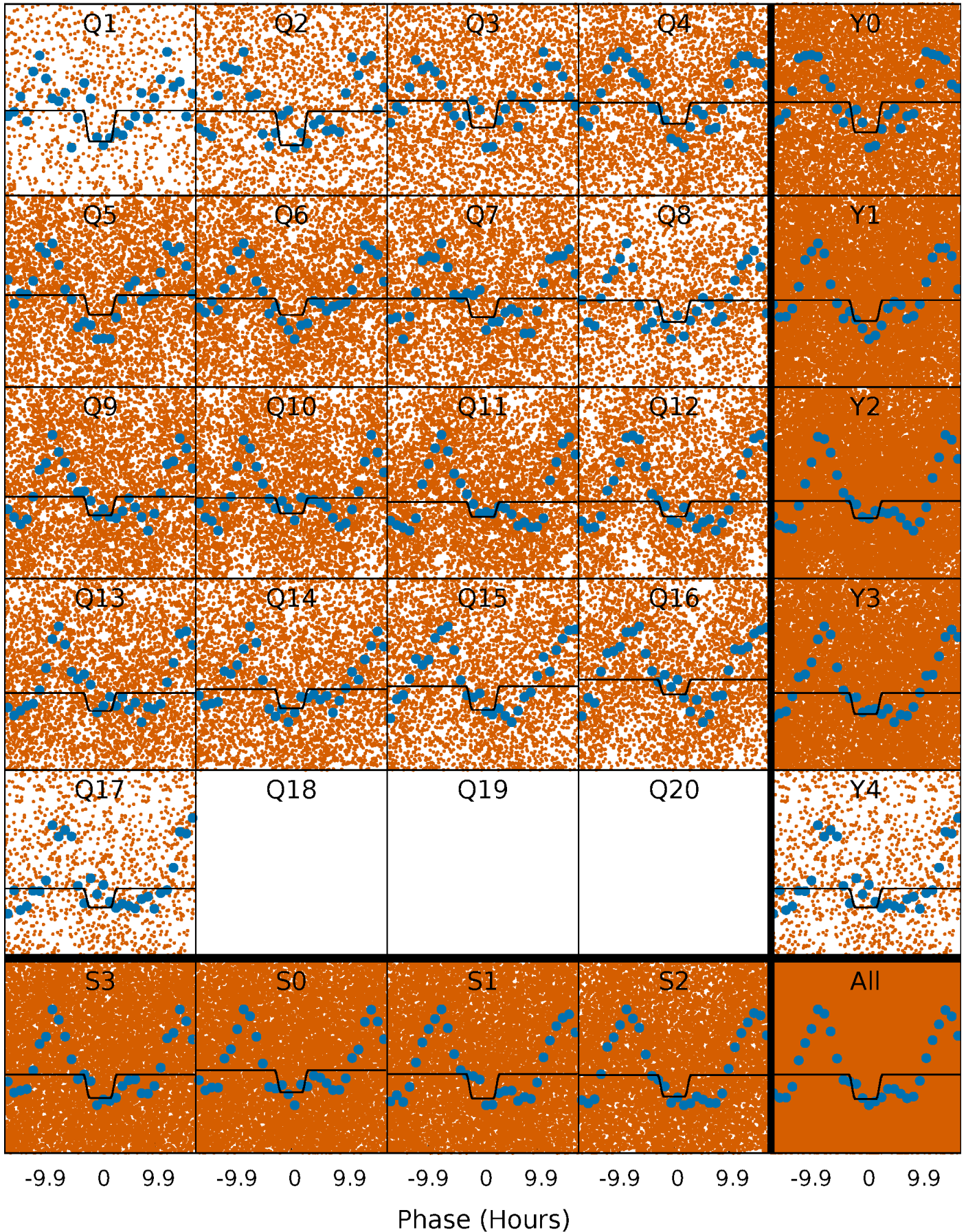
DV Quarter-Phased Transit Curves

TCE 011957286-01 P= 0.953704 Days $T_0=131.600777$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

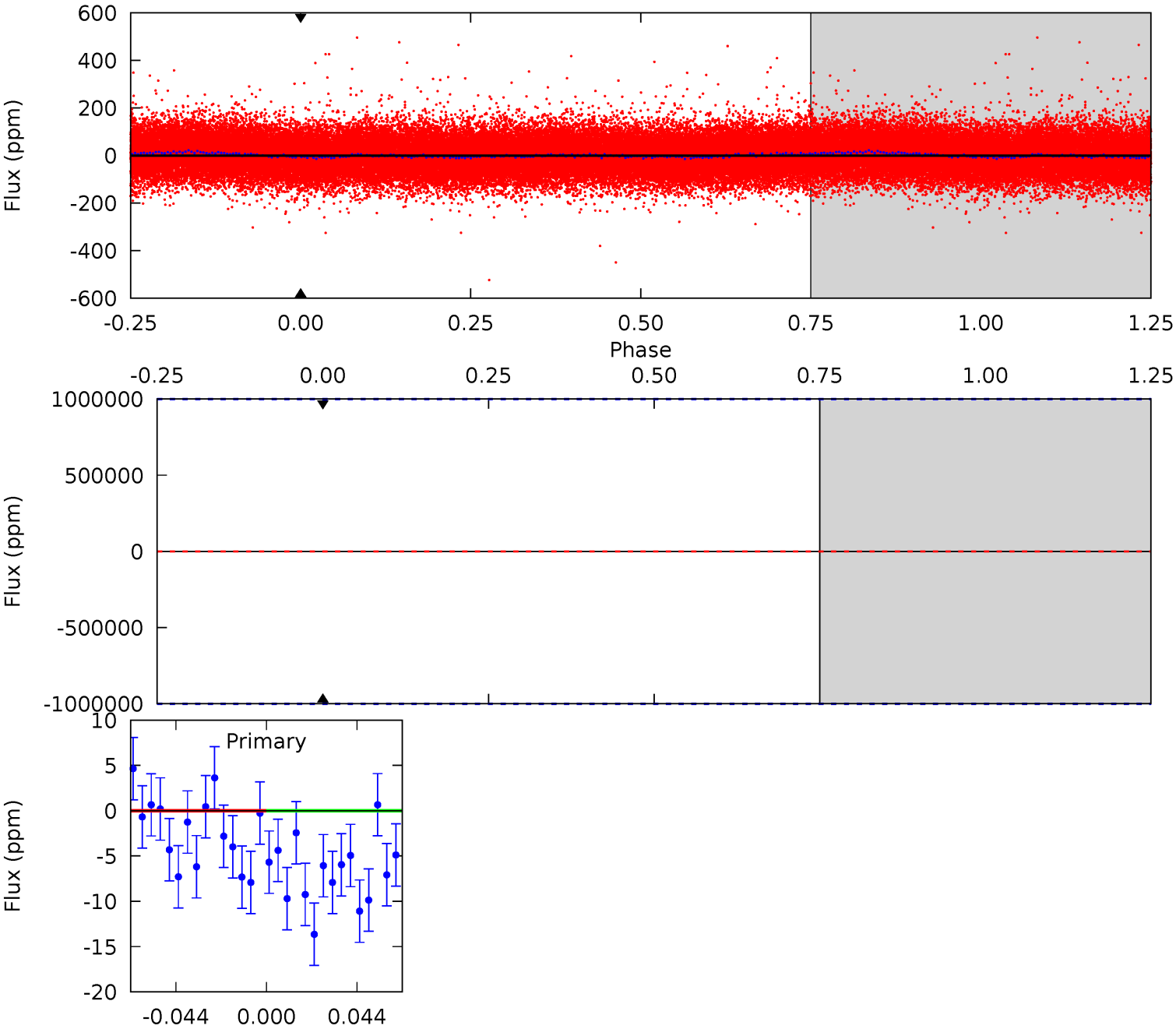
TCE 011957286-01 P= 0.953704 Days $T_0=131.781274$ (BKJD)



DV Model-Shift Uniqueness Test

011957286-01, P = 0.953704 Days, E = 130.647073 Days

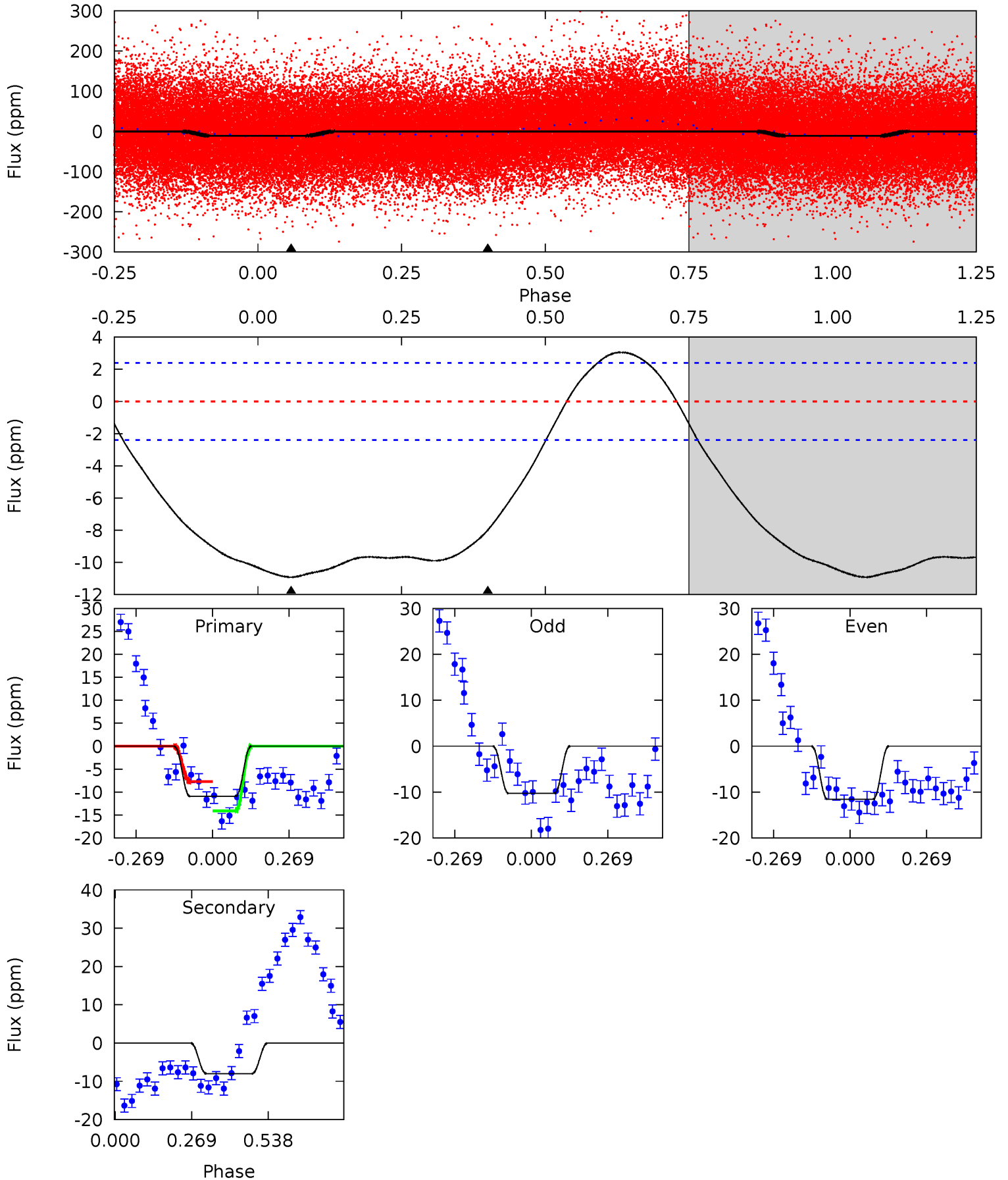
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011957286-01, P = 0.953704 Days, E = 130.827570 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.8	14.5	0	0	4.35	1.11	3.57	19.8	19.8	14.5	14.5	1.16	0.96	0.22	6.16



Stellar Parameters For KIC 011957286

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7502^{+260}_{-286}	$4.089^{+0.209}_{-0.152}$	$-0.520^{+0.250}_{-0.300}$	$1.757^{+0.487}_{-0.438}$	$1.383^{+0.205}_{-0.225}$	$0.359^{+0.474}_{-0.154}$
	+3%/-4%	+5%/-4%	+48%/-58%	+28%/-25%	+15%/-16%	+132%/-43%
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 011957286-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$13.62^{+14.68}_{-9.42}$	4194^{+324}_{-306}	-5468^{+51002}_{-35262}	$-1.641^{+286.996}_{-233.509}$
Alt.	-8 ± 1	$12.68^{+14.68}_{-8.84}$	4184^{+299}_{-341}	-3683^{+379}_{-228}	$0.012^{+0.121}_{-0.009}$

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

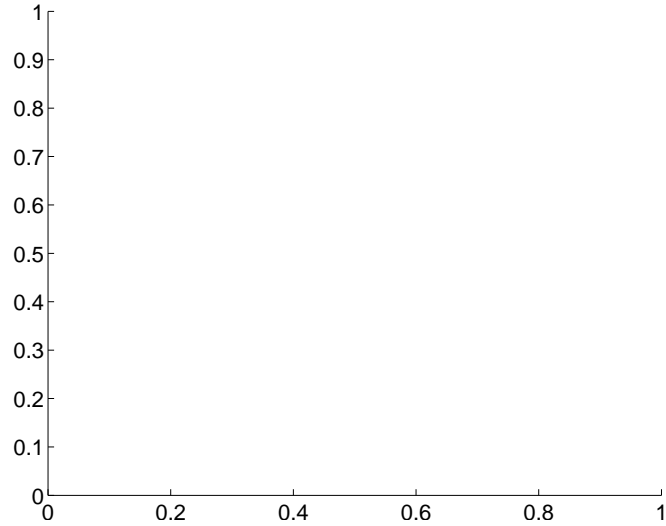
Supplemental centroid analysis for 011957286-01. **Kepler magnitude: 11.46.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

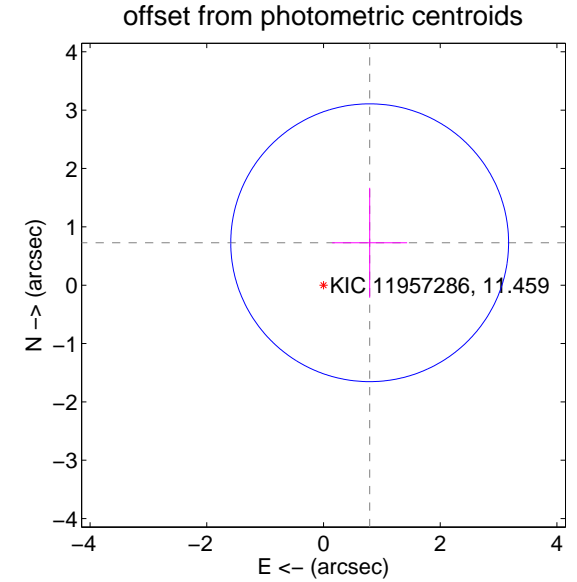
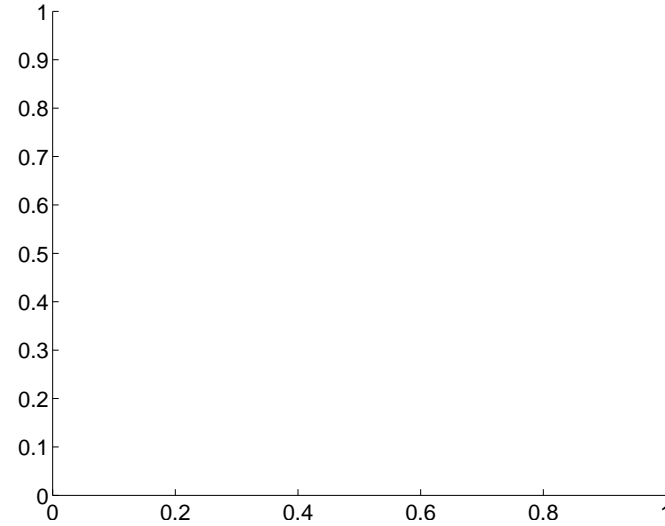
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	1.07 ± 0.79	1.35	-0.79 ± 0.64	0.73 ± 0.94

There is no PRF-fit offset from OOT-fit

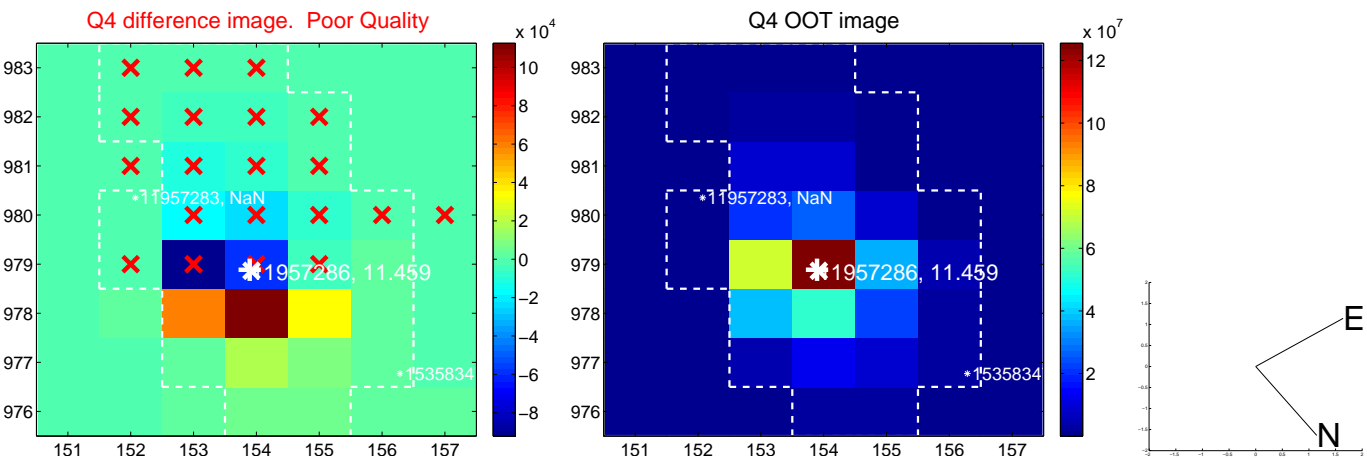
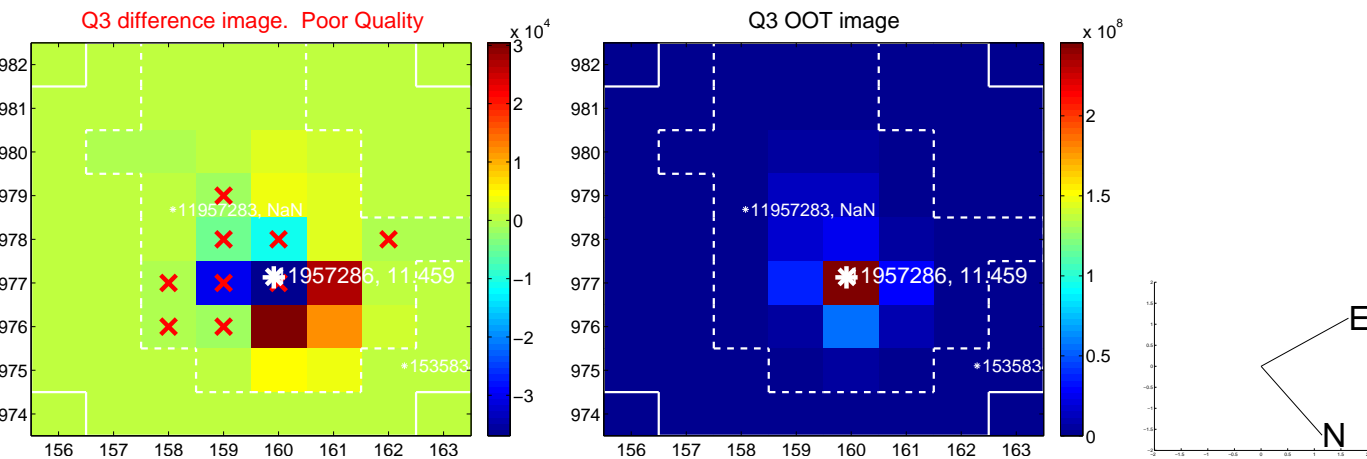
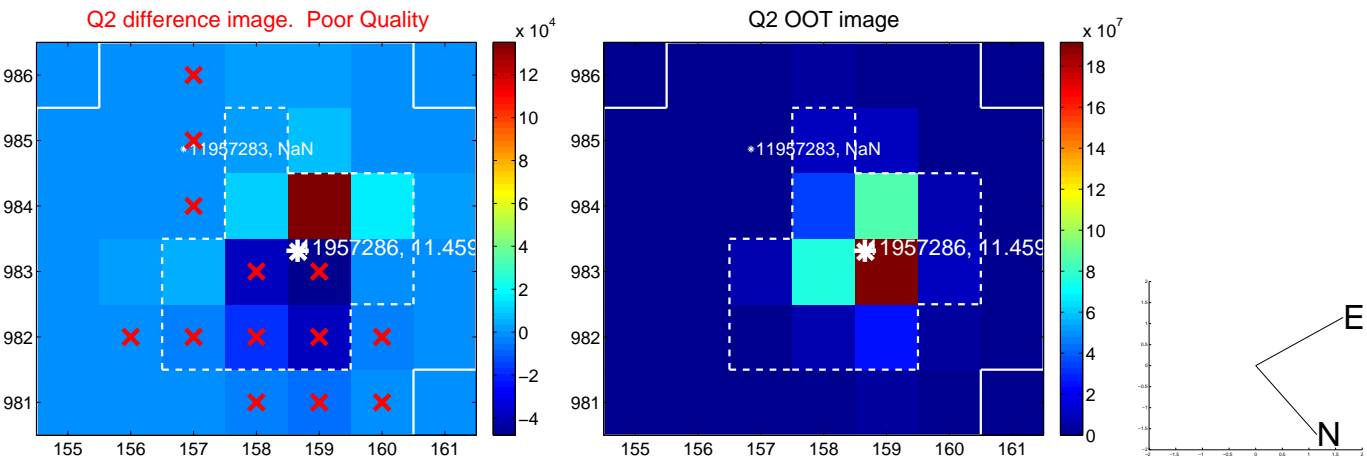
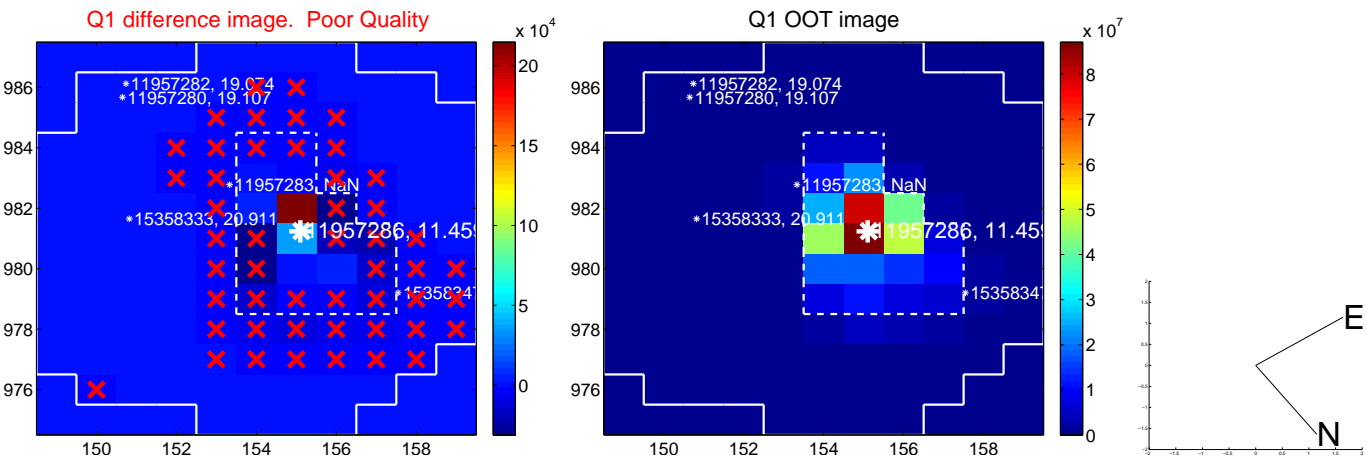


There is no PRF-fit offset from KIC

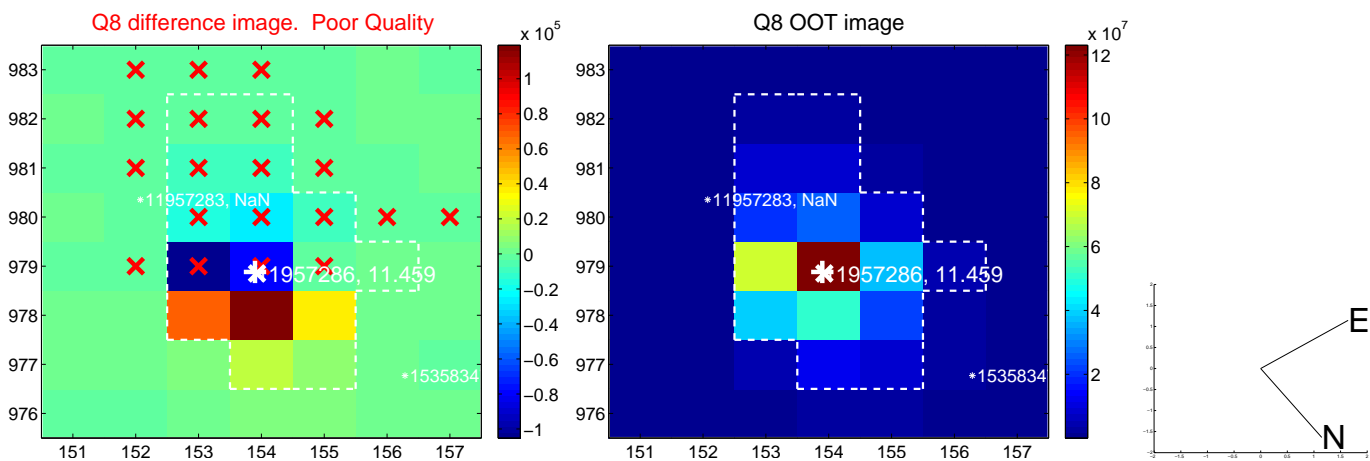
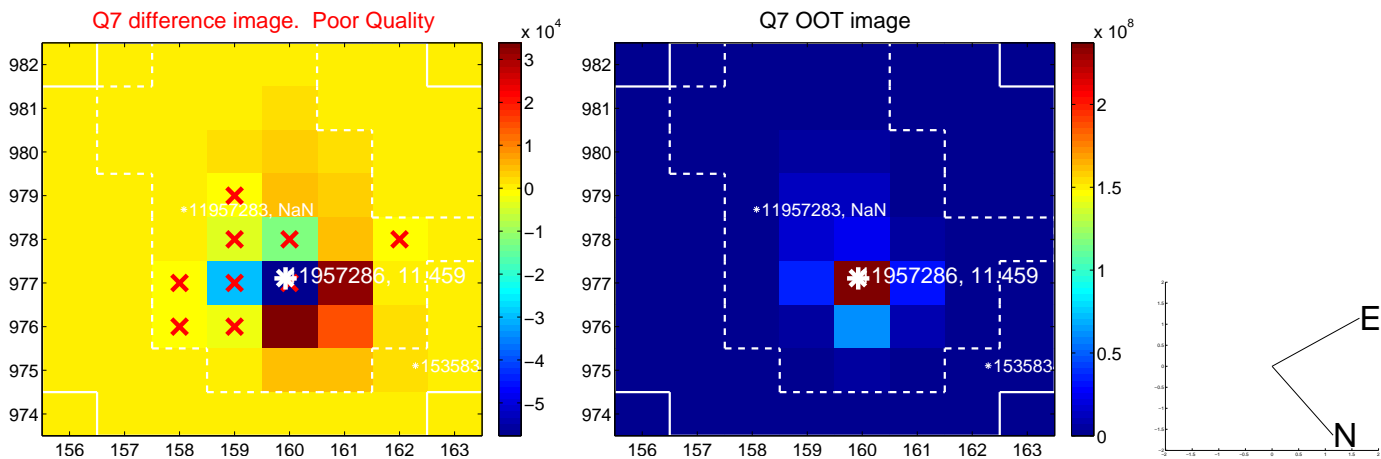
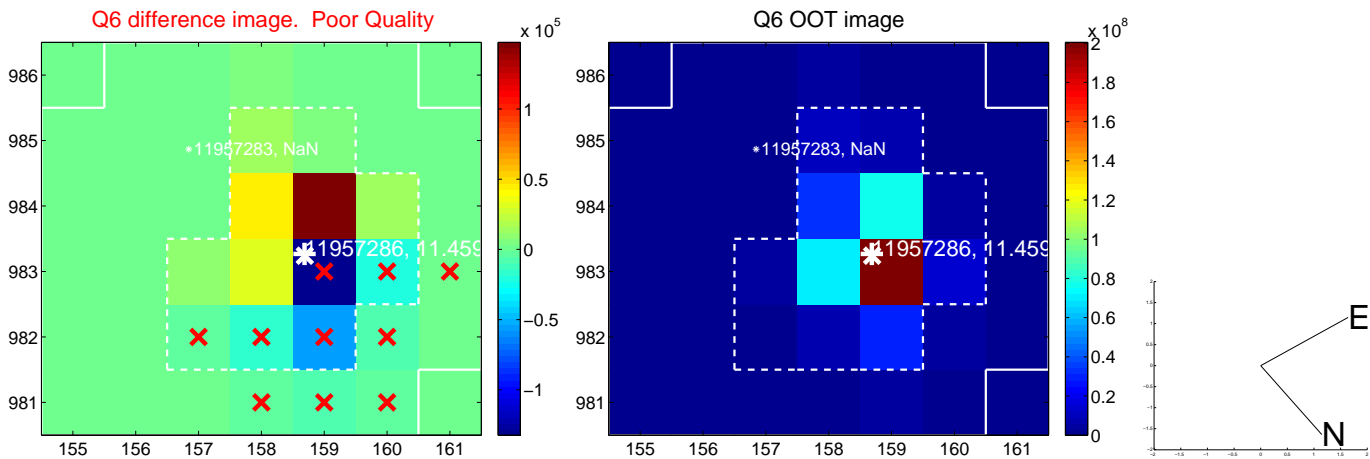
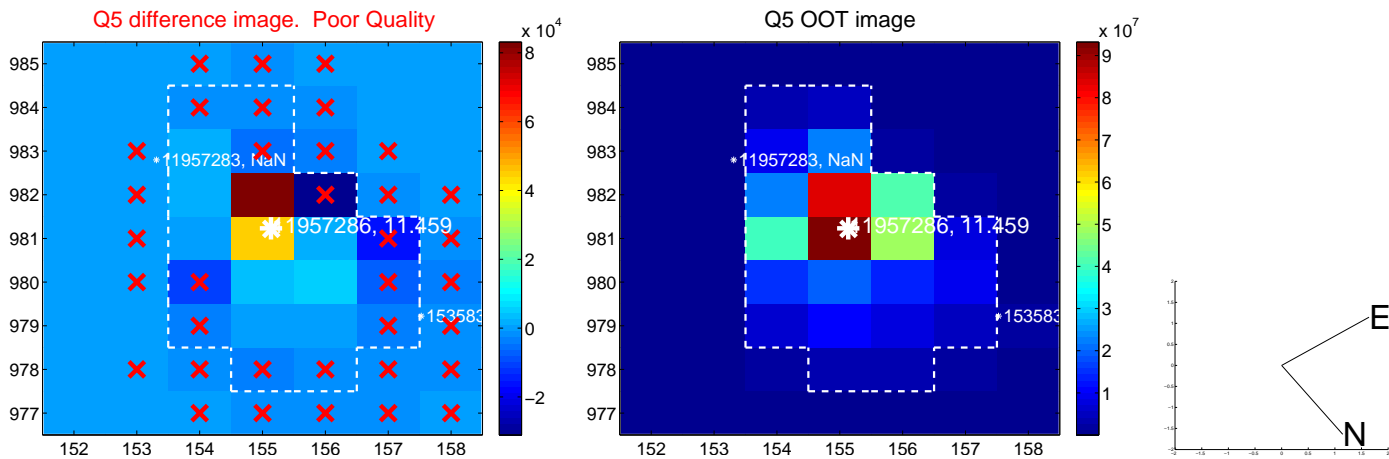


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

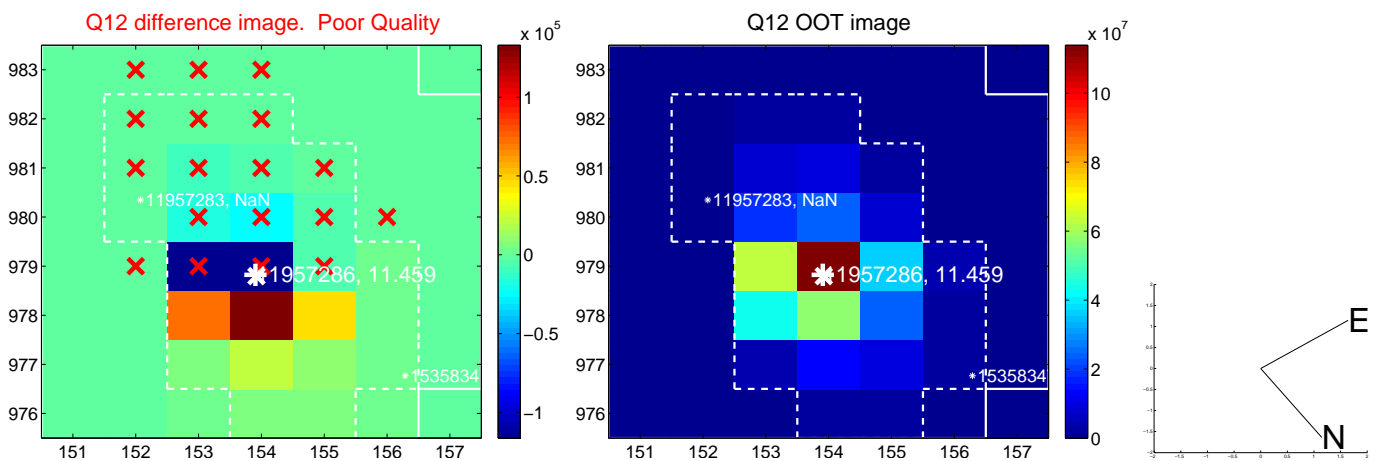
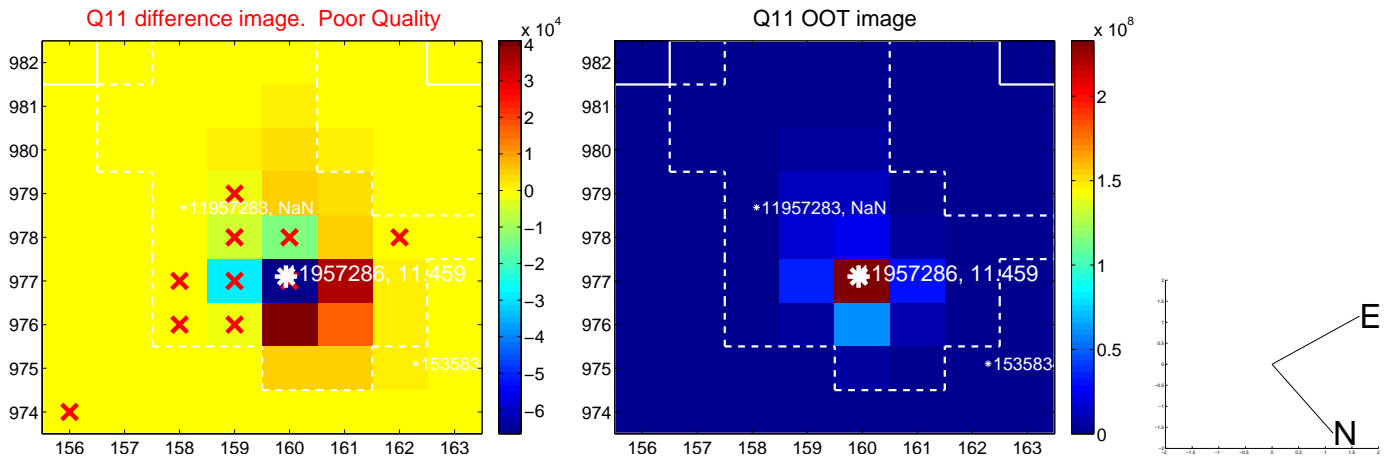
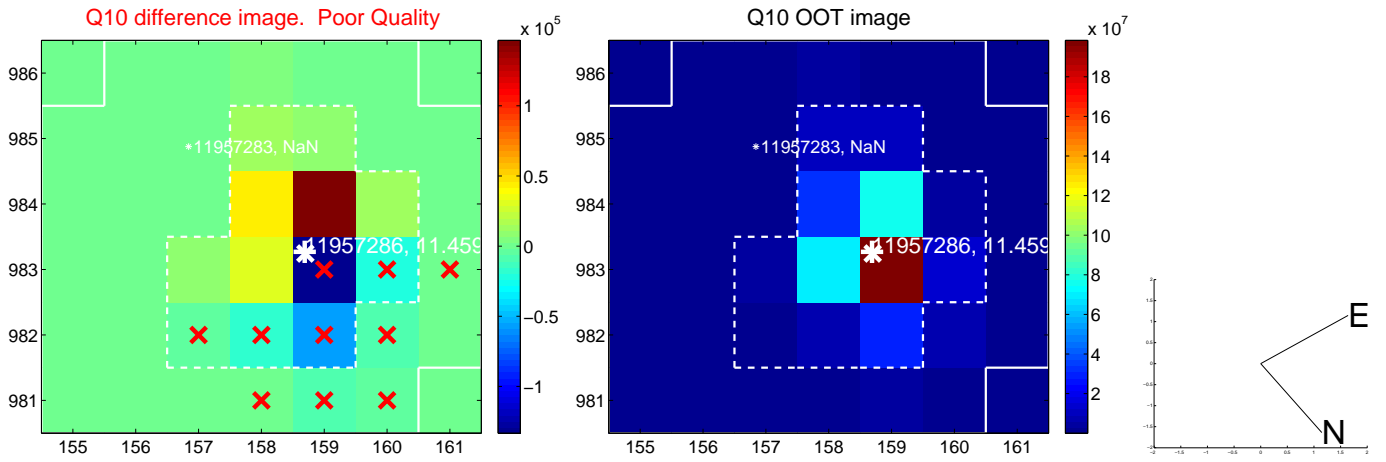
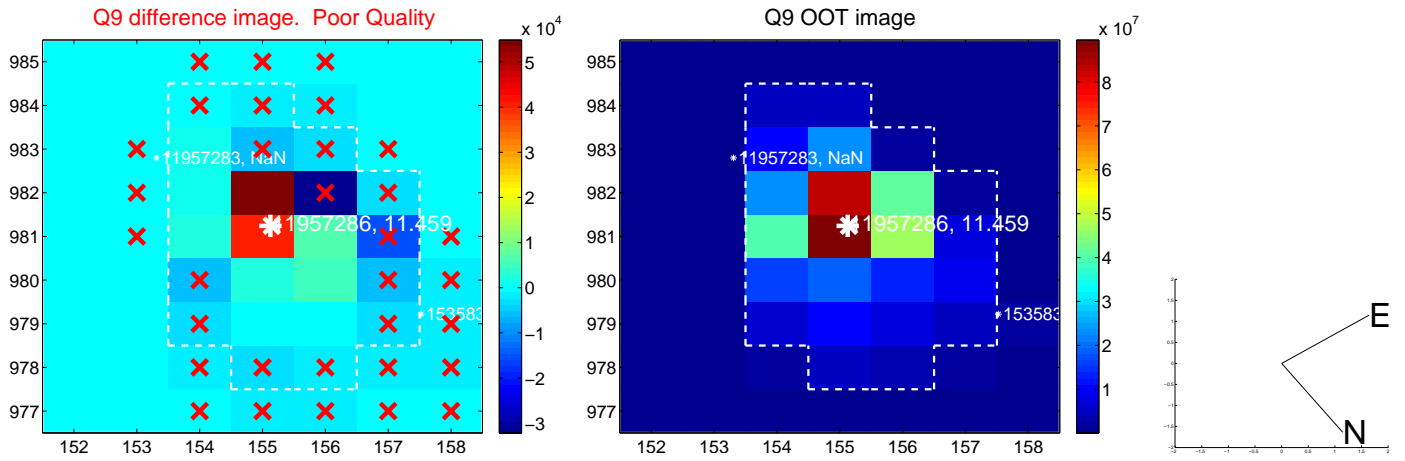
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



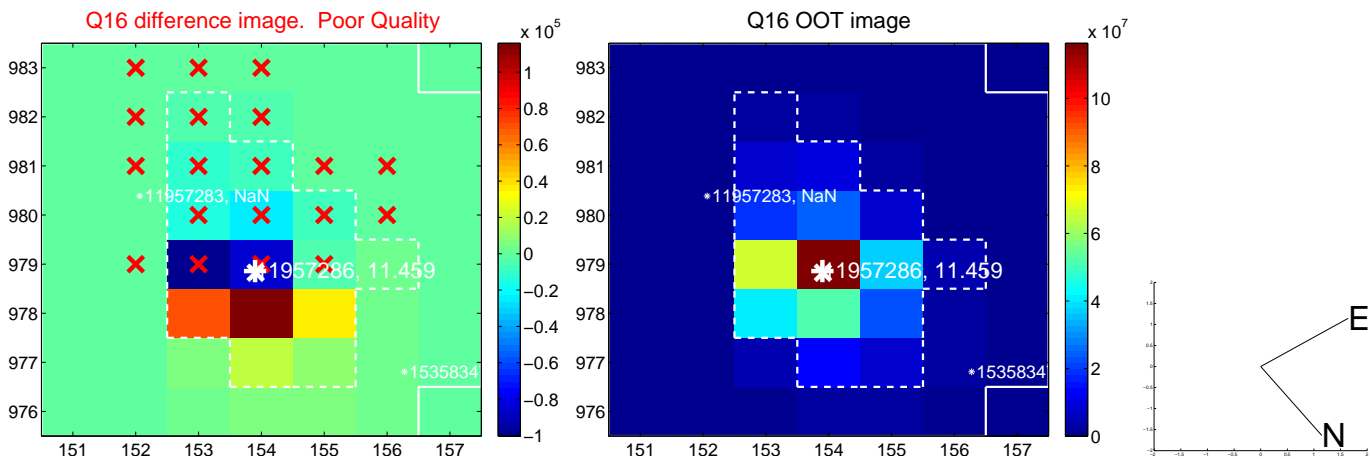
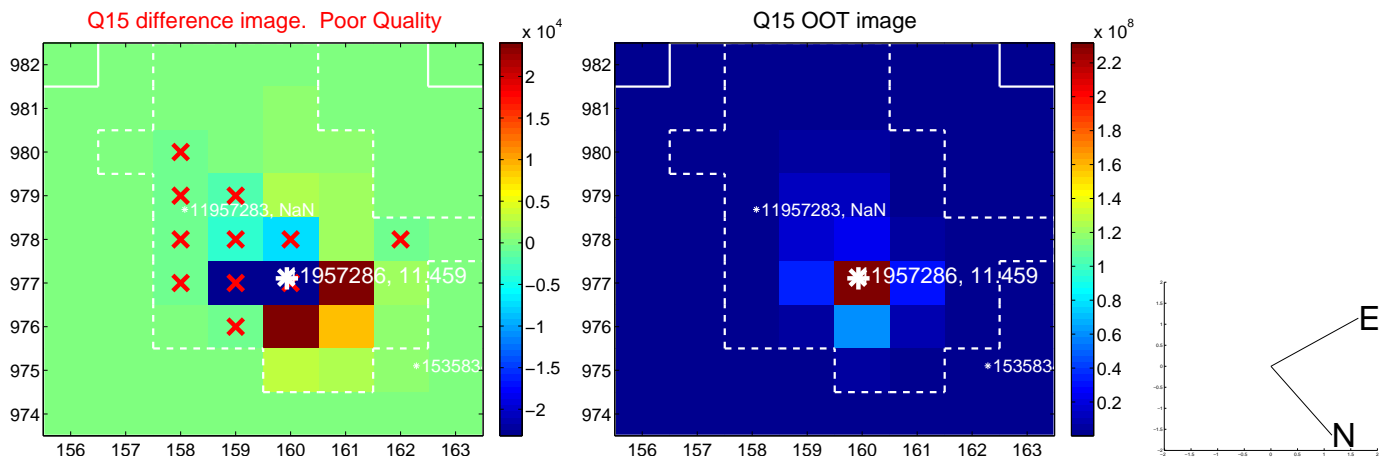
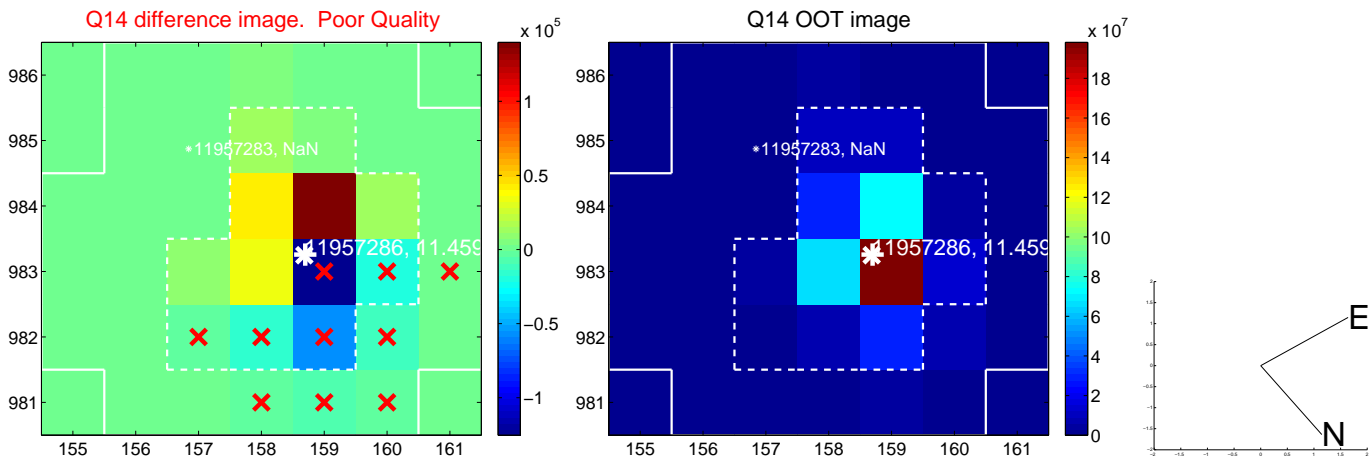
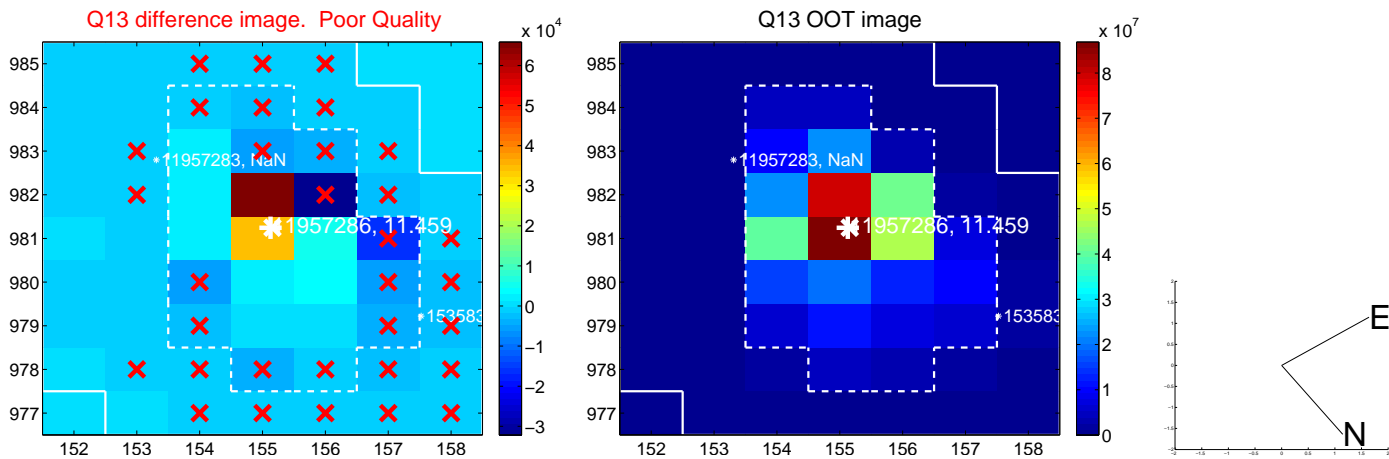
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



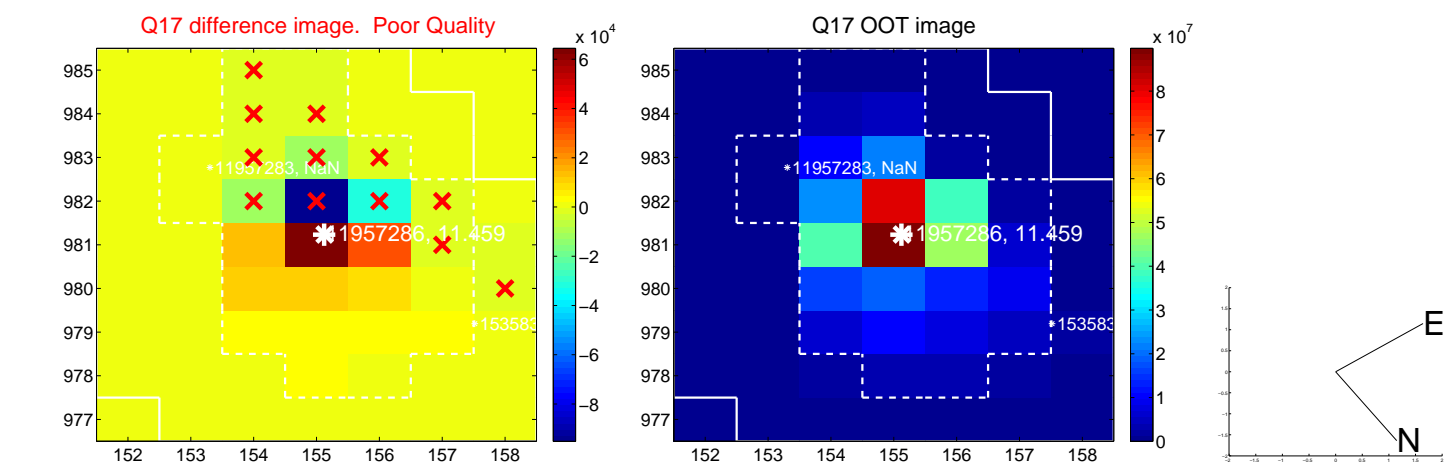
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



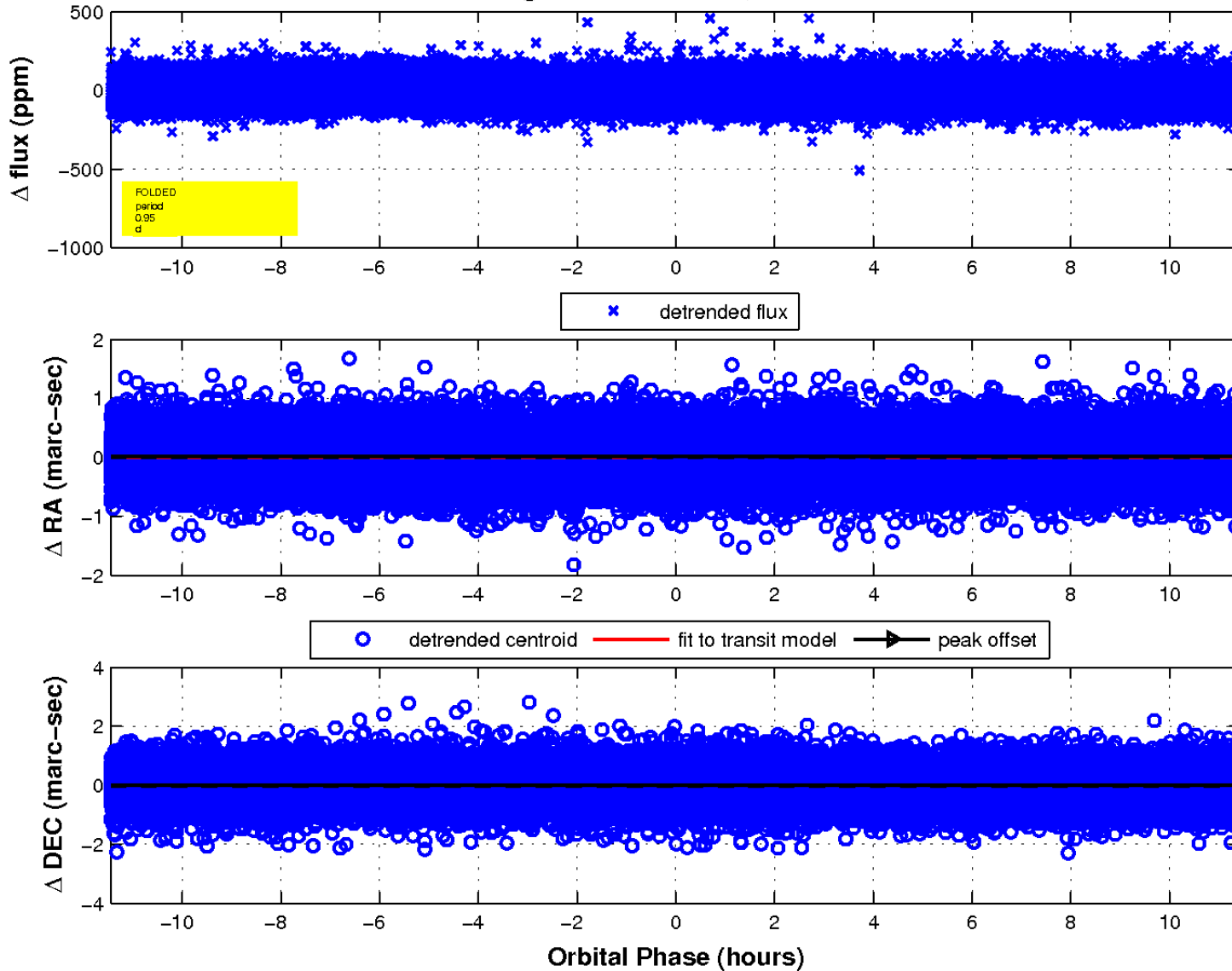
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 1 of 1



UKIRT Image

Declination

