

KIC 010226479

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})
010226479-01	OBS	No	0.660591	131.736374	18.0	3.341	8.0	3.4	0.99	6170	0.43	5560.74

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010226479-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_UNRESOLVED_OFFSET—EPHEM_MATCH

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.

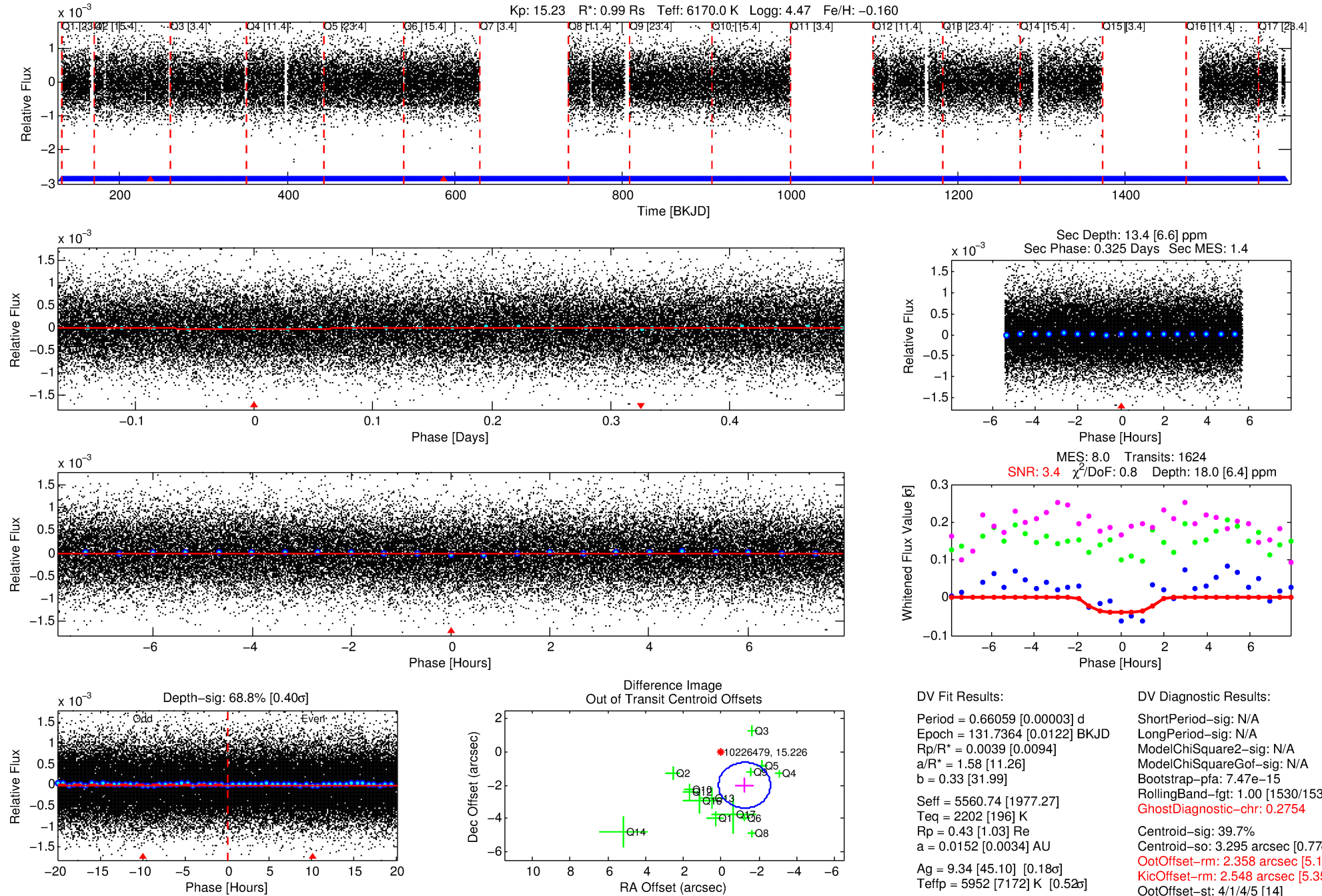
Ephemeris Match Information For 010226479-01

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
010226479-01	10226479	010226498-01	10226498	1:1	38.3	8	-6	14.93	15.22	1.11	Direct-PRF	1	4.94	2.67

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

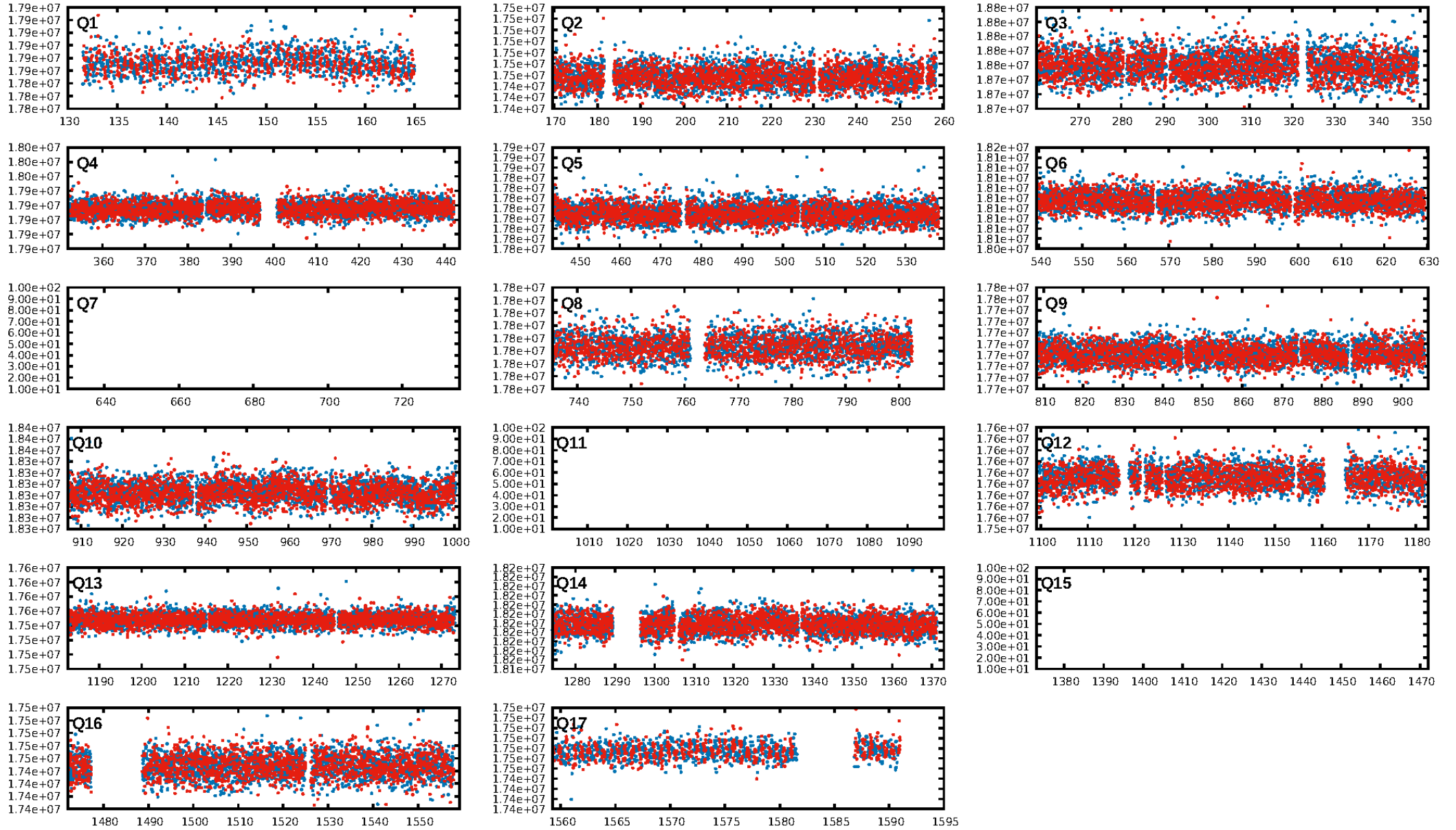
KIC: 10226479 Candidate: 1 of 1 Period: 0.661 d



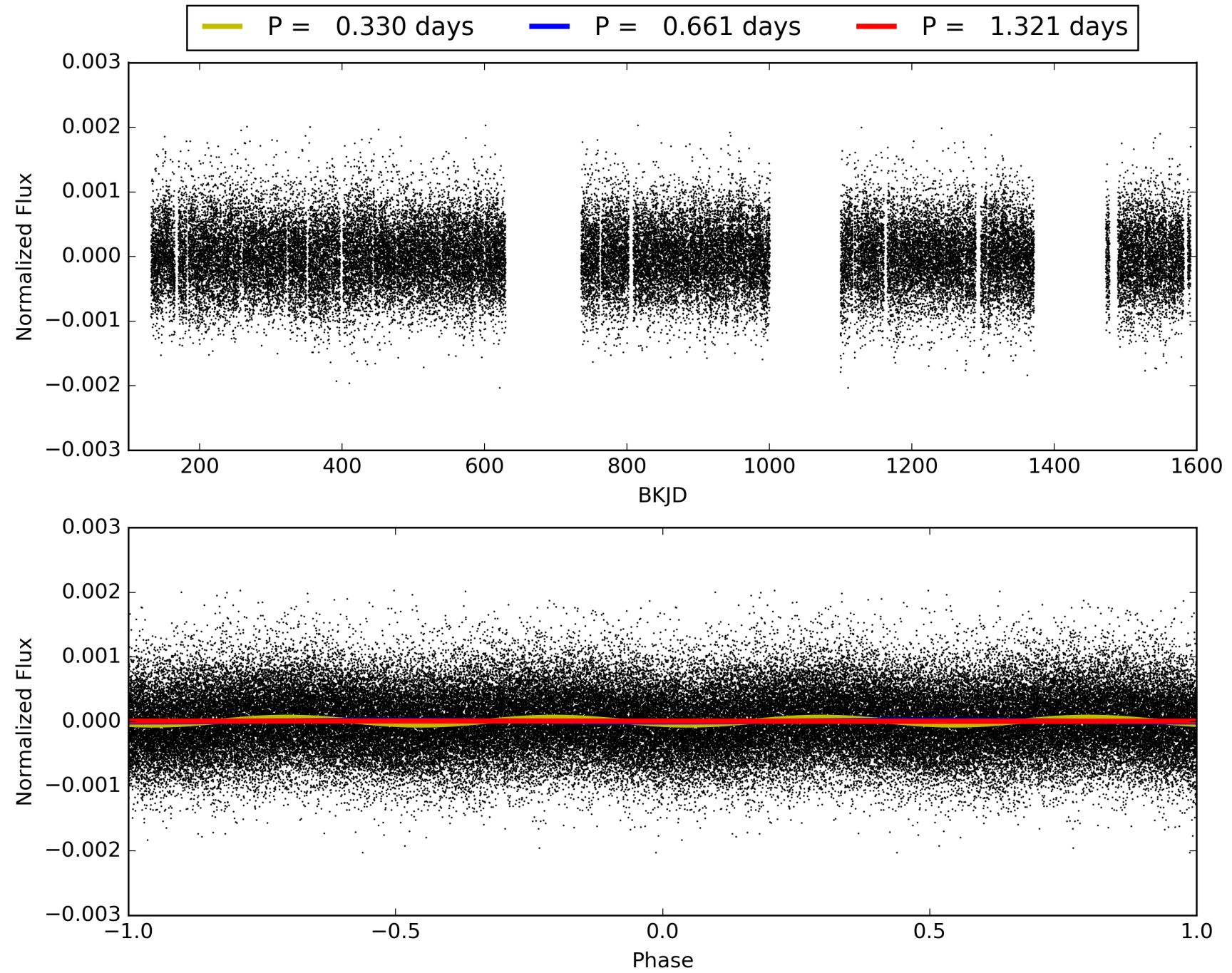
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 14:59:28 Z

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

TCE 010226479-01, PDC Light Curves

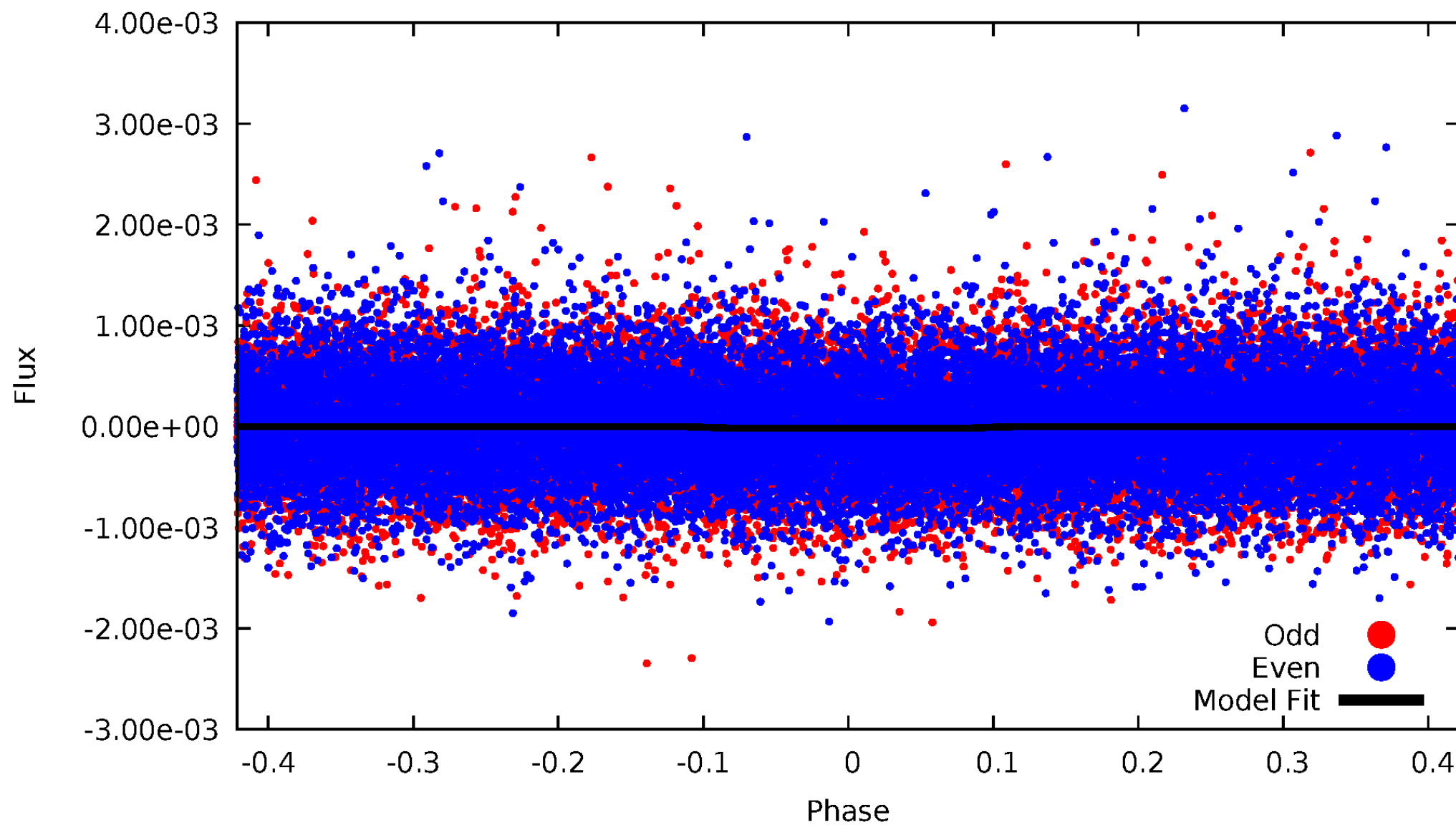


TCE 010226479-01



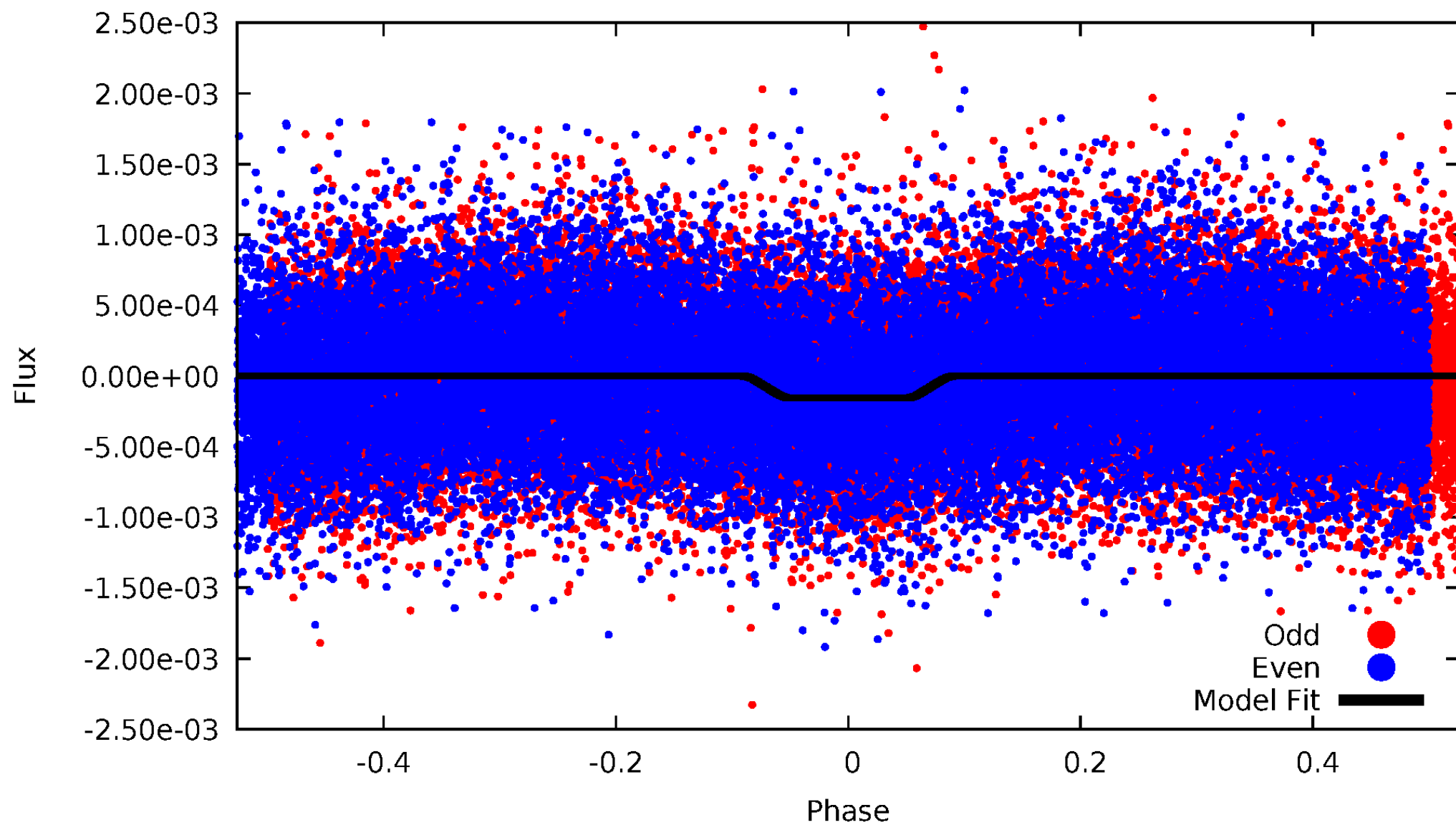
DV Odd/Even

TCE 010226479-01

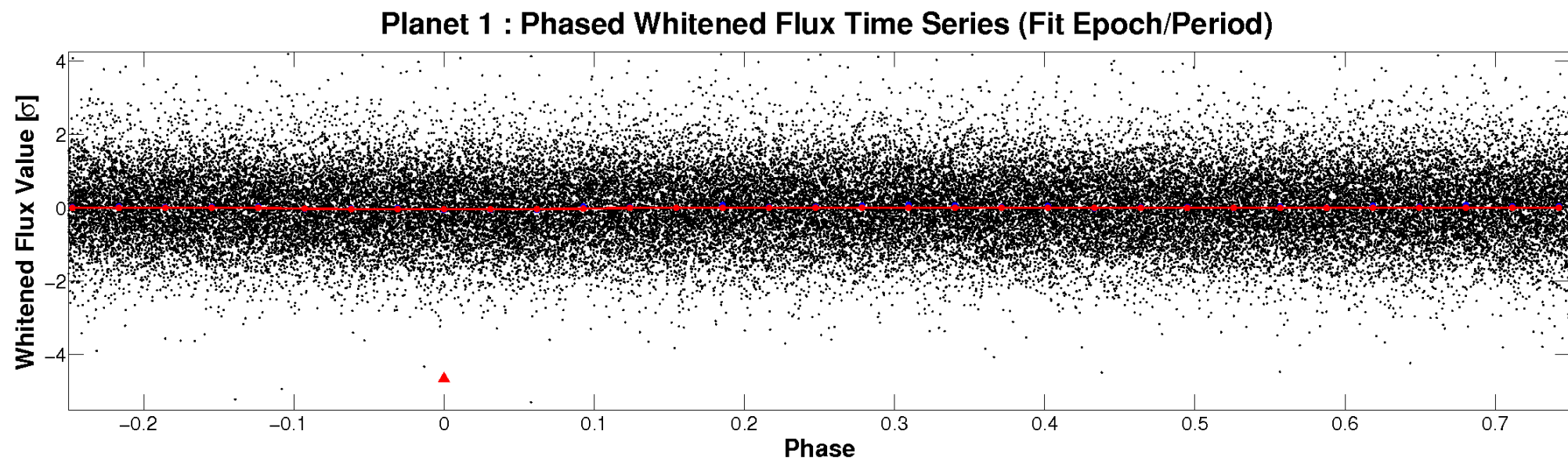
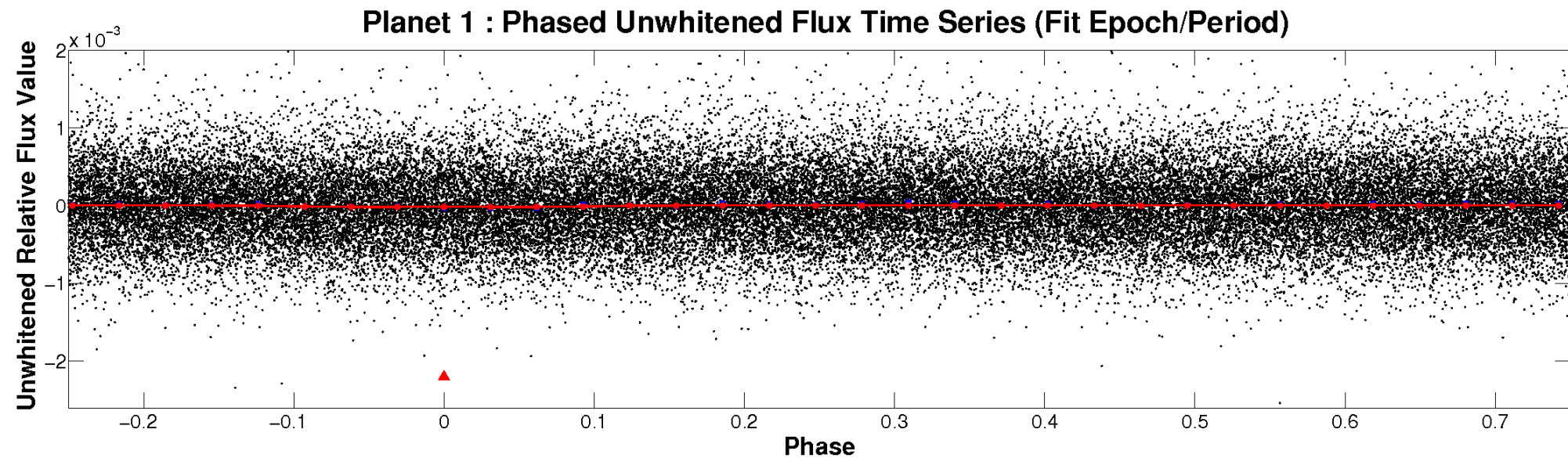


ALT Odd/Even

TCE 010226479-01

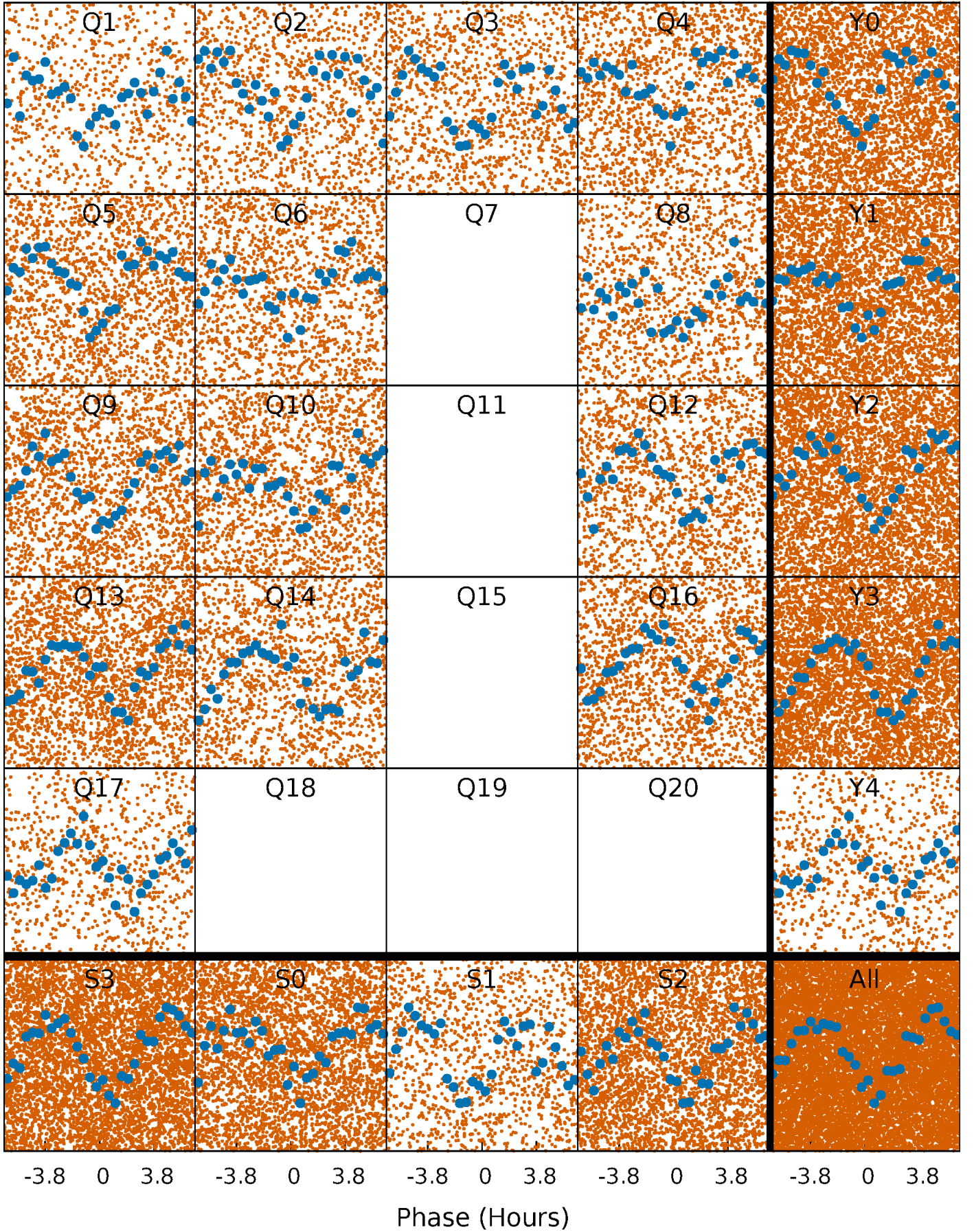


Non-Whitened Vs. Whitened Light Curve



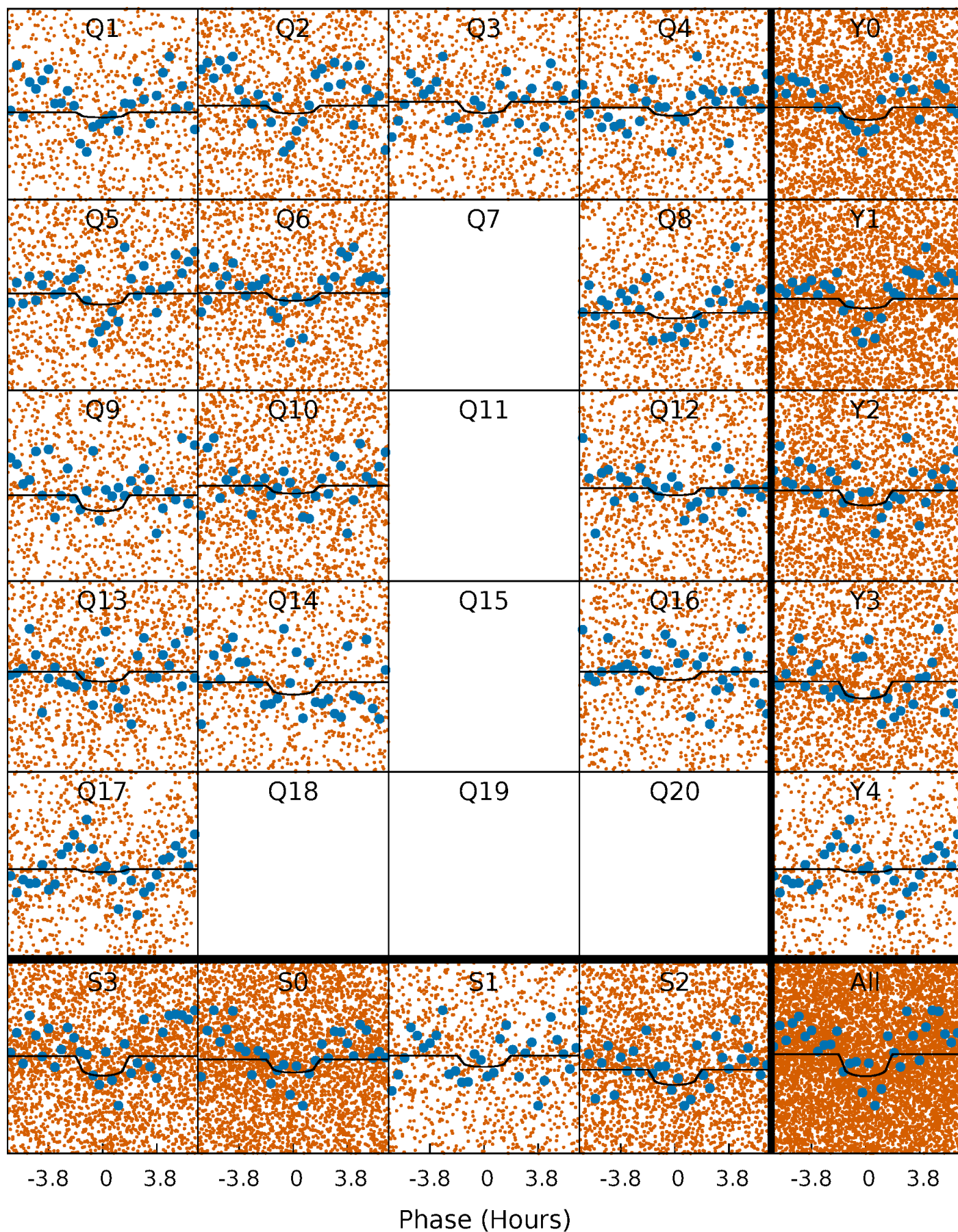
PDC Quarter-Phased Transit Curves

TCE 010226479-01 P= 0.660591 Days $T_0=131.736374$ (BKJD)



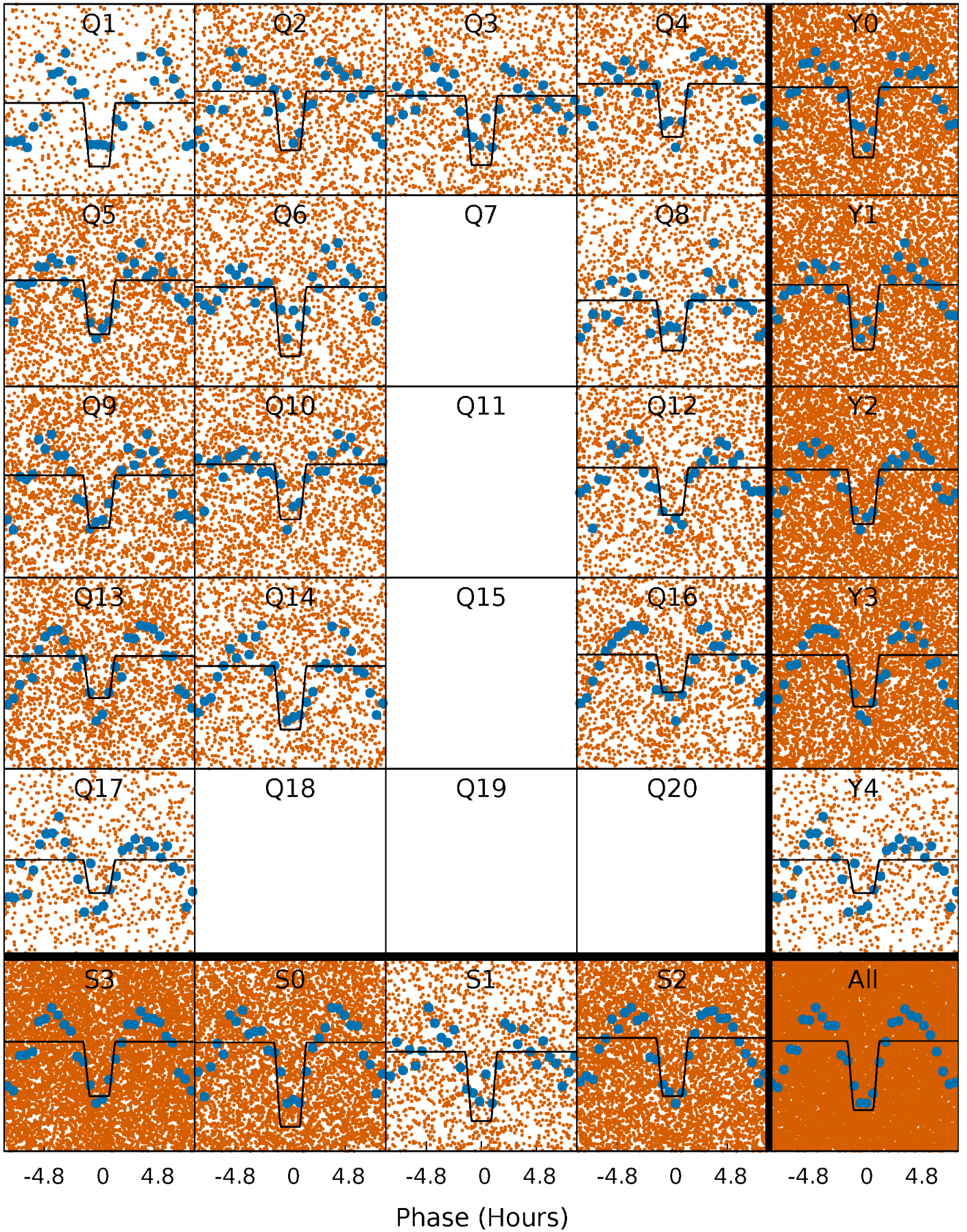
DV Quarter-Phased Transit Curves

TCE 010226479-01 P= 0.660591 Days $T_0=131.736374$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

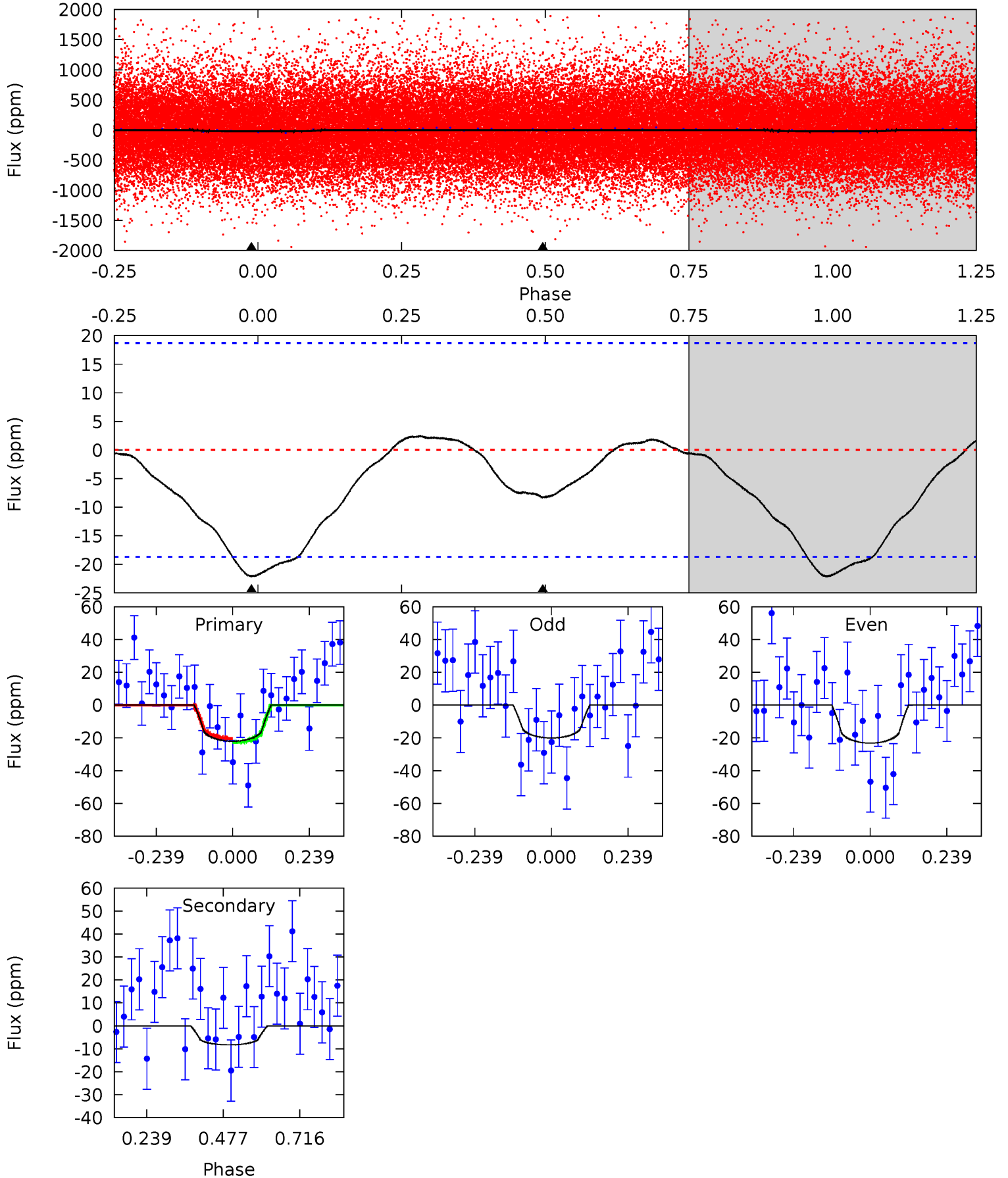
TCE 010226479-01 P= 0.660657 Days $T_0=131.691987$ (BKJD)



DV Model-Shift Uniqueness Test

010226479-01, P = 0.660591 Days, E = 131.075783 Days

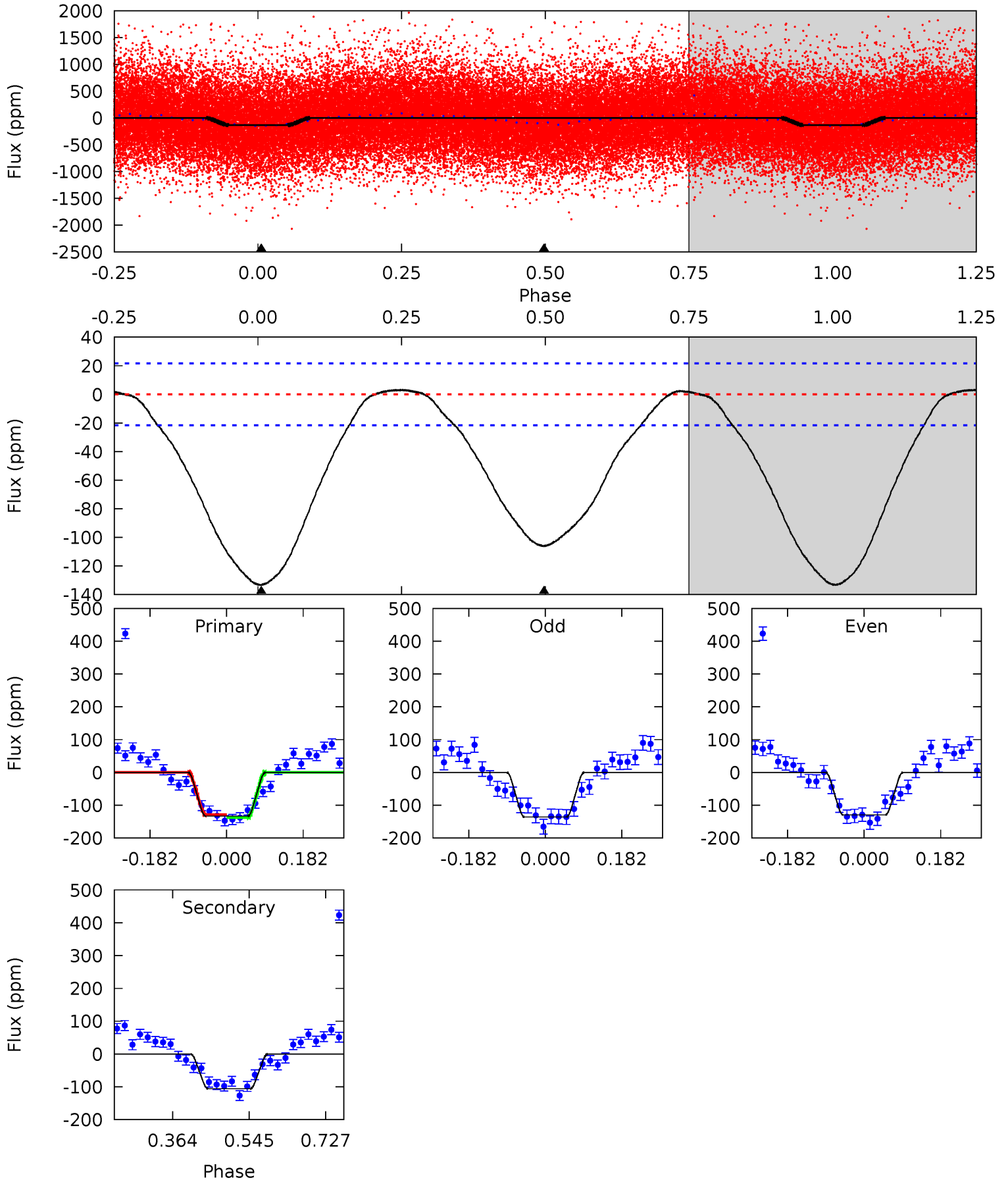
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.18	1.94	0	0	4.38	1.18	0.27	5.18	5.18	1.94	1.94	0.36	0.93	0.10	0.28



Alt Model-Shift Uniqueness Test

010226479-01, P = 0.660657 Days, E = 131.031330 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
27.3	21.7	0	0	4.44	1.34	1.11	27.3	27.3	21.7	21.7	0.64	0.98	0.02	0.90



Stellar Parameters For KIC 010226479

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6170^{+174}_{-217}	$4.472^{+0.048}_{-0.180}$	$-0.160^{+0.250}_{-0.350}$	$0.992^{+0.259}_{-0.111}$	$1.063^{+0.134}_{-0.148}$	$1.535^{+0.380}_{-0.747}$
	+3%/-4%	+1%/-4%	+156%/-219%	+26%/-11%	+13%/-14%	+25%/-49%
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 010226479-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-8 ± 4	$0.94^{+0.94}_{-0.64}$	3139^{+203}_{-146}	3643^{+2630}_{-6351}	$0.972^{+9.923}_{-0.767}$
Alt.	-106 ± 5	$1.51^{+0.99}_{-0.93}$	3137^{+212}_{-147}	5374^{+3893}_{-1088}	$5.714^{+32.563}_{-3.646}$

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 $A_{obs} \gg 1.0$

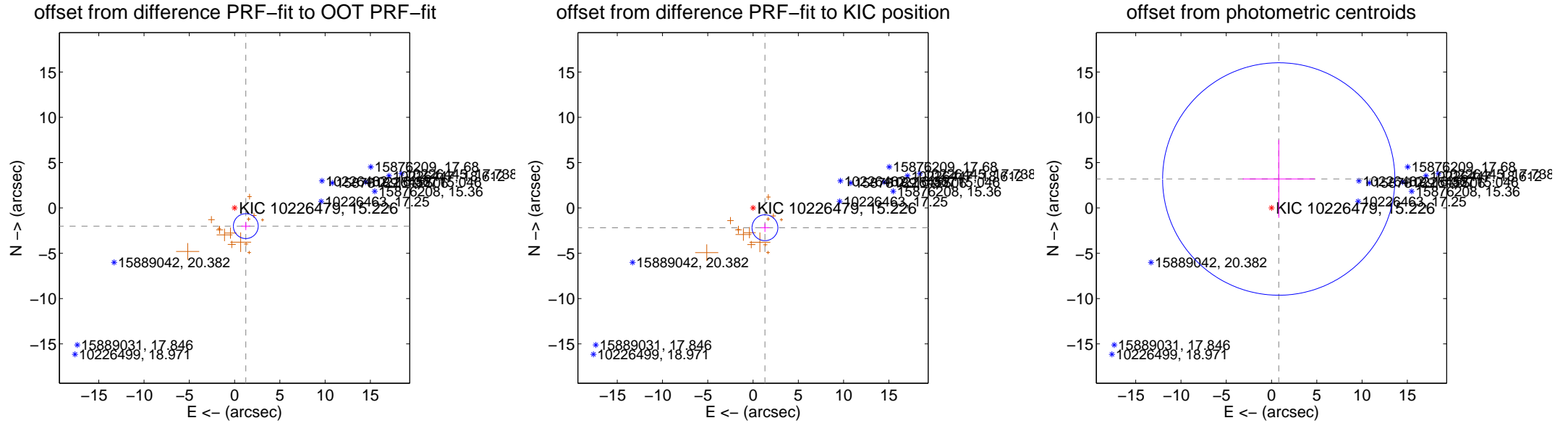
DV Centroid Data

Supplemental centroid analysis for 010226479-01. Kepler magnitude: 15.23. Transit SNR 3.45

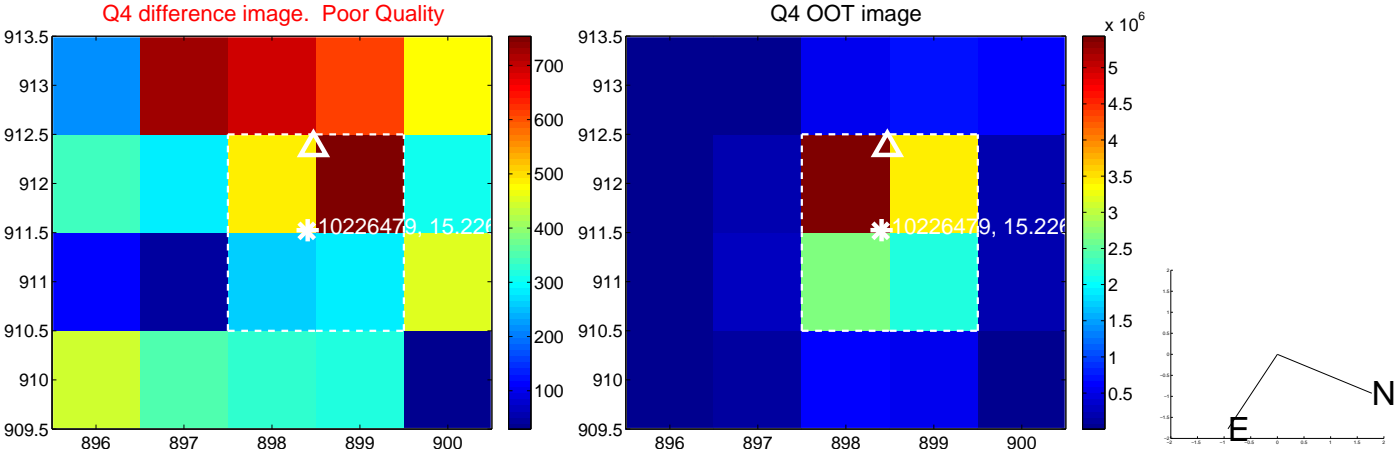
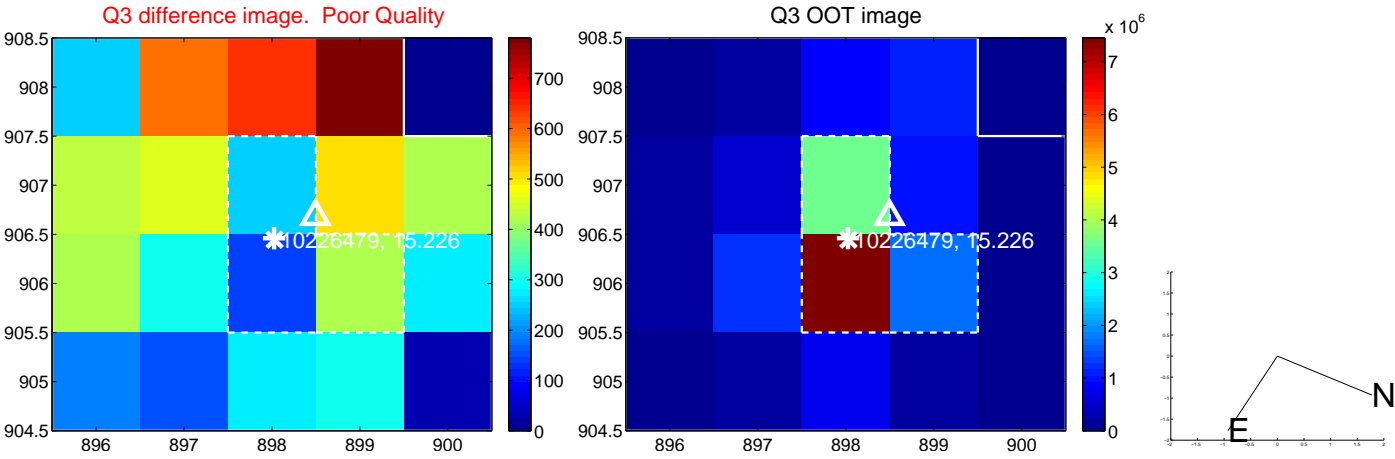
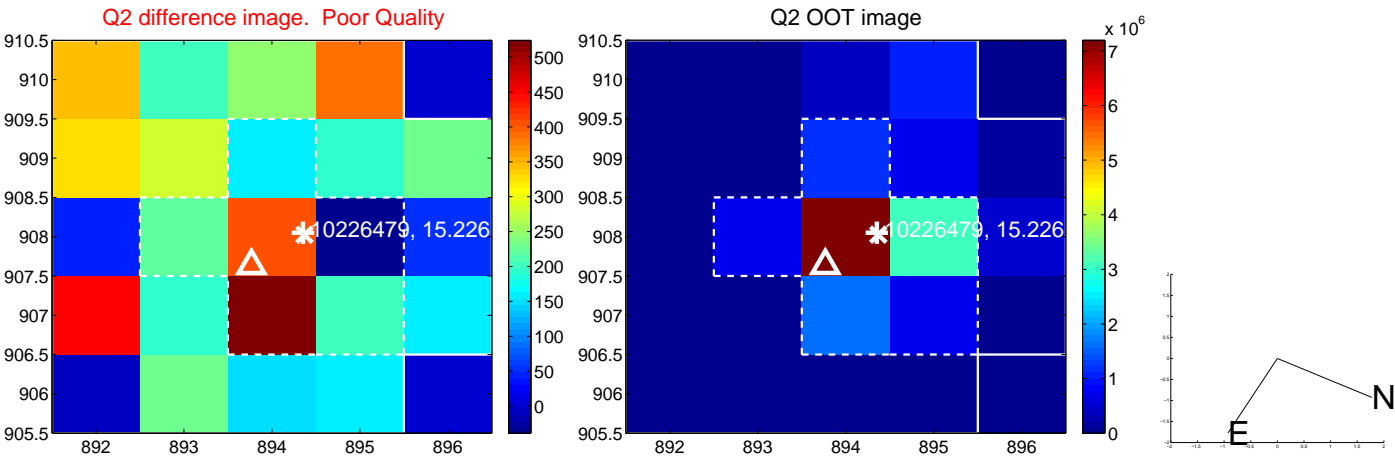
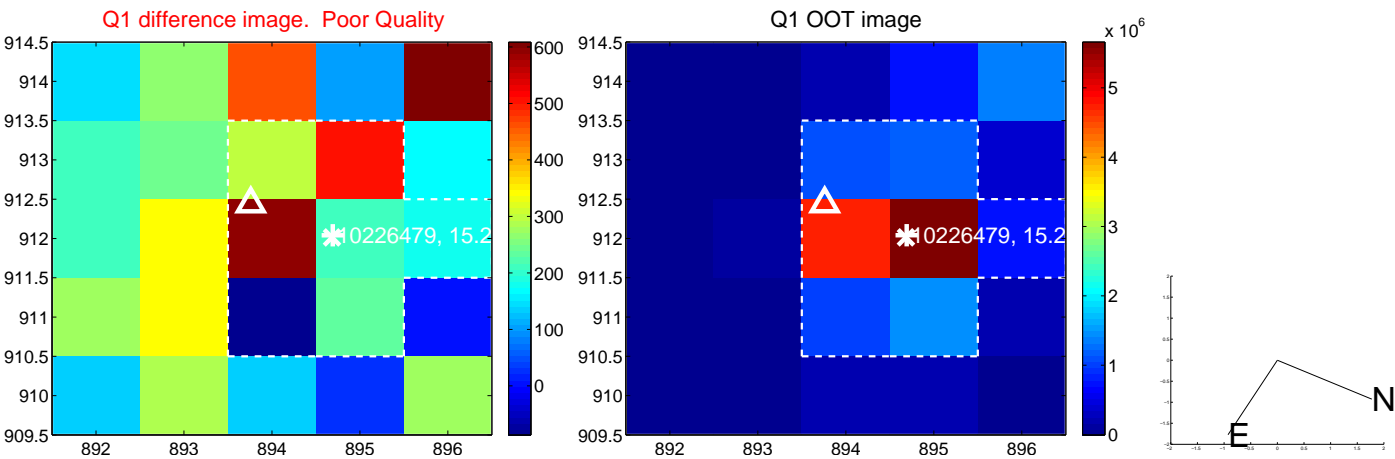
There are 0 quarters with good PRF difference image offsets

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

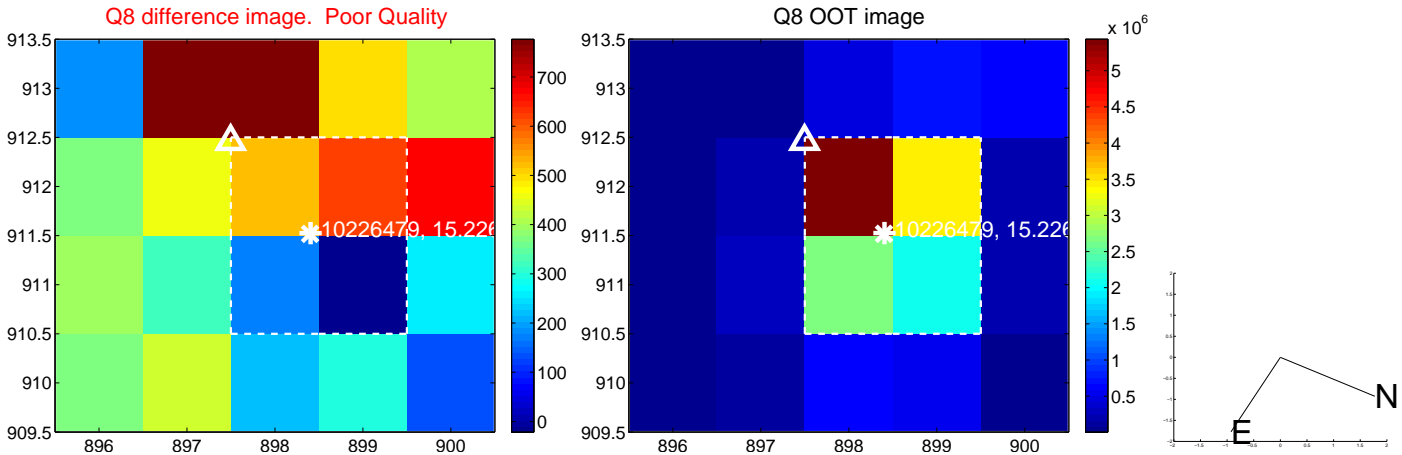
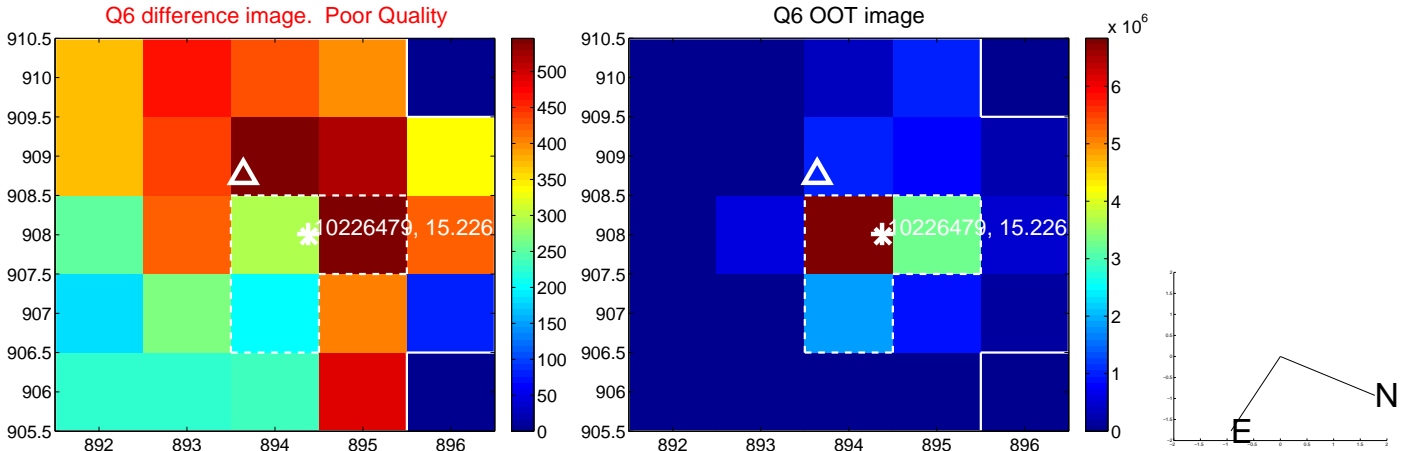
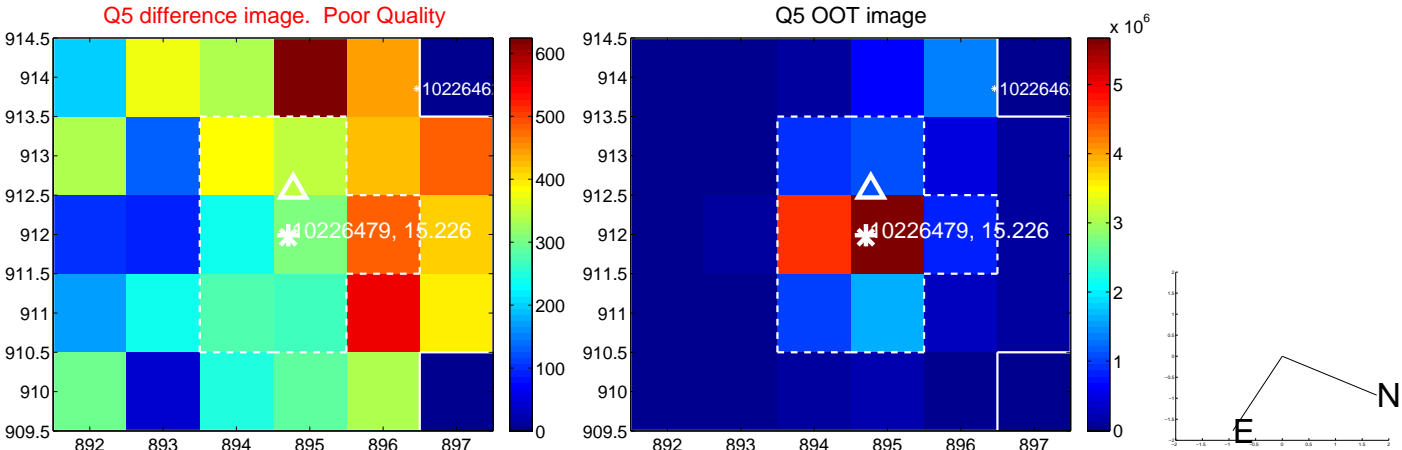
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.358 ± 0.458	5.15	-1.240 ± 0.494	-2.006 ± 0.443
PRF-fit source offset from KIC position	2.548 ± 0.476	5.35	-1.314 ± 0.494	-2.183 ± 0.469
photometric centroid source offset	3.29 ± 4.28	0.77	-0.80 ± 3.98	3.20 ± 4.29



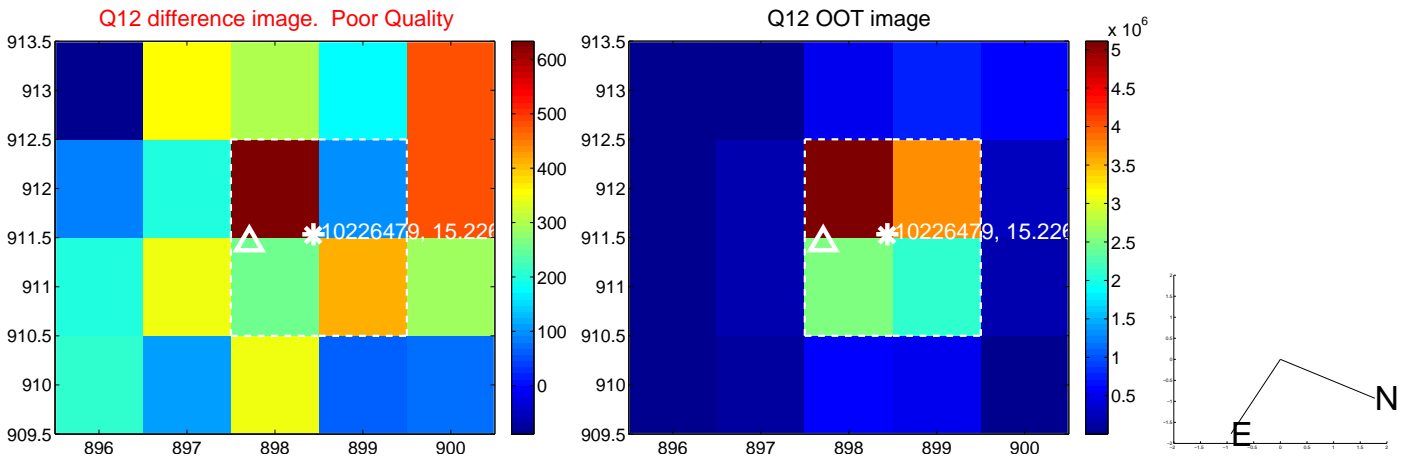
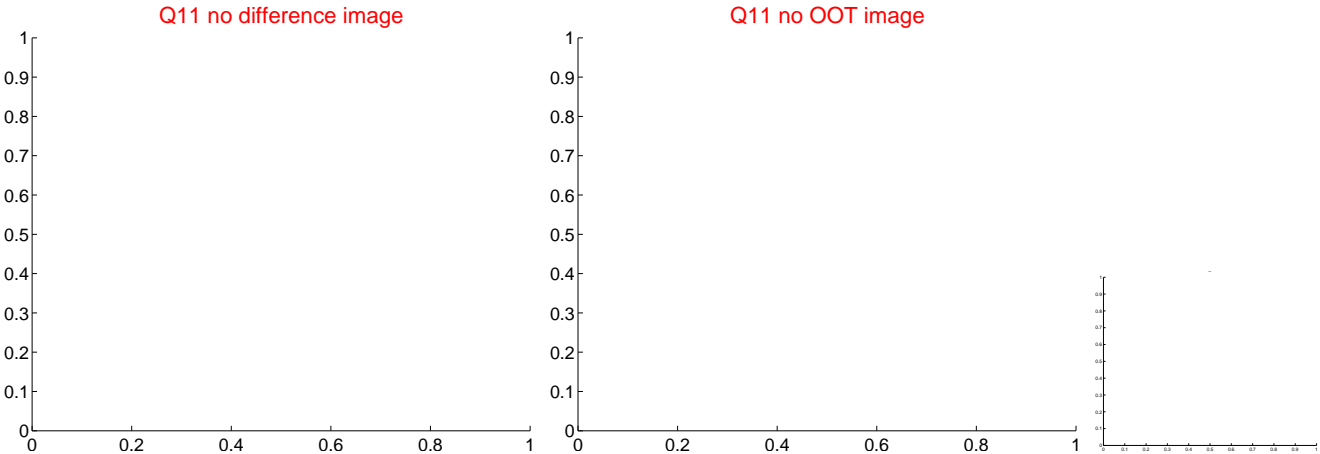
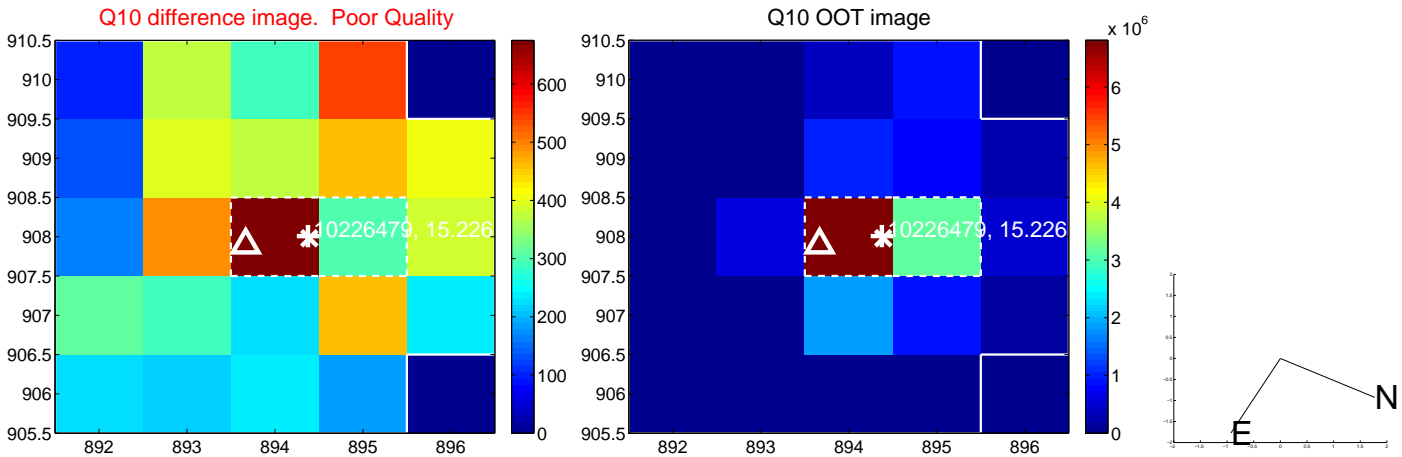
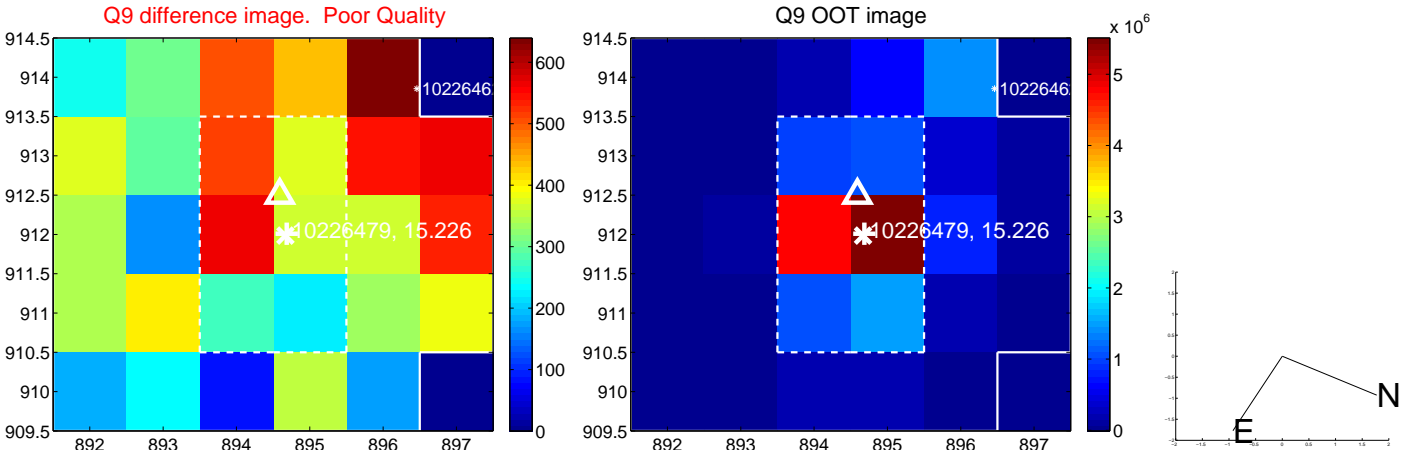
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



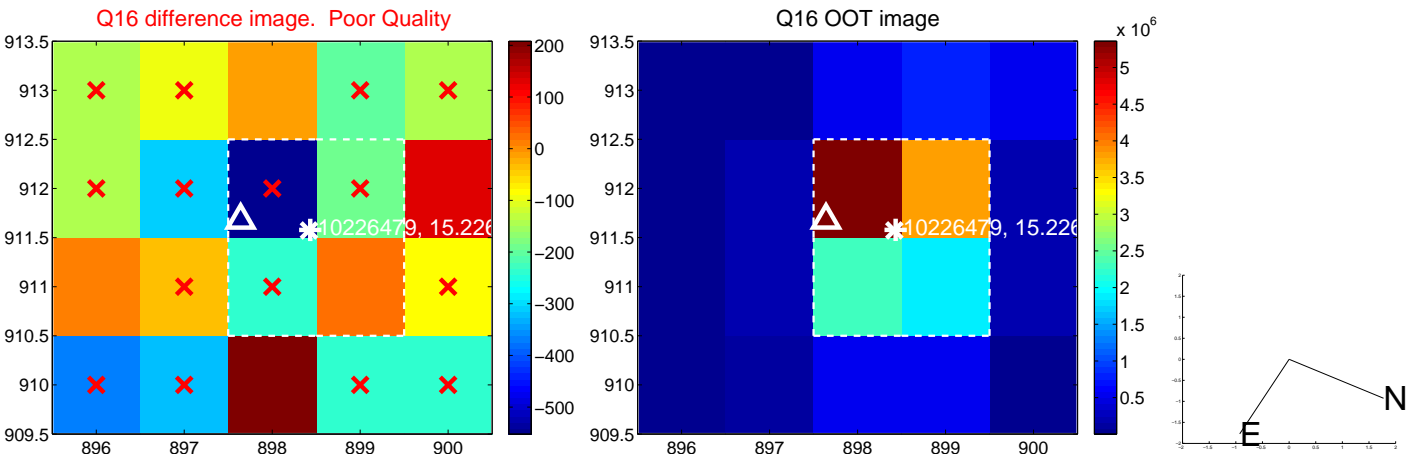
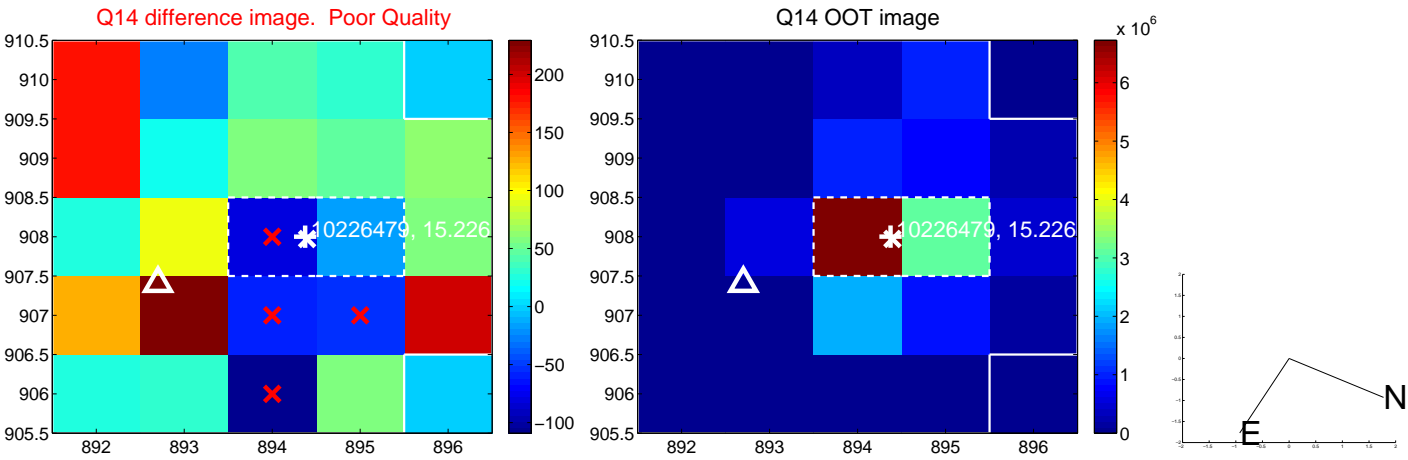
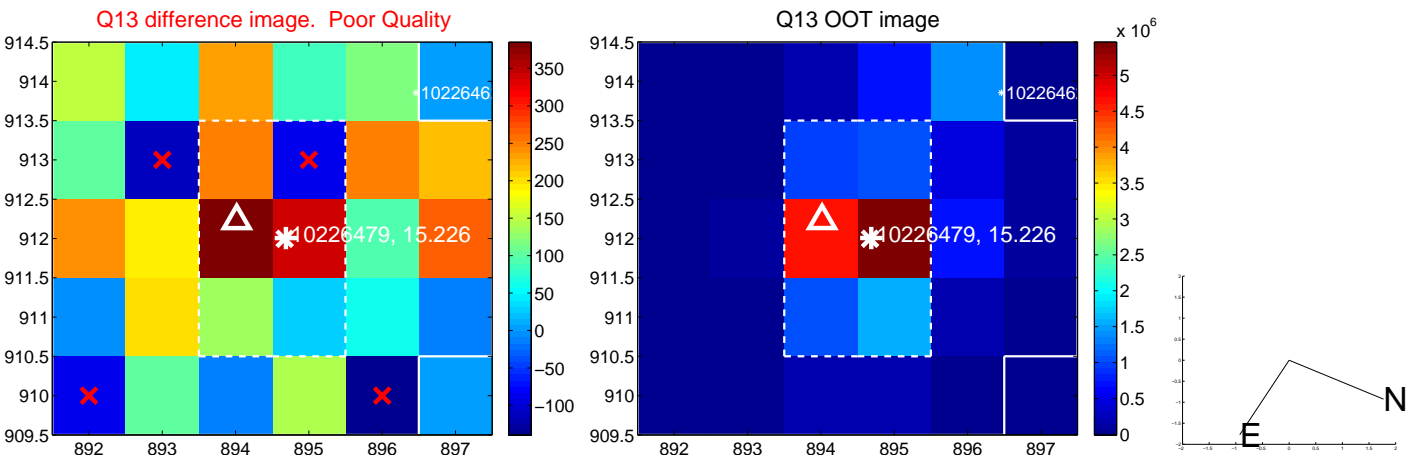
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



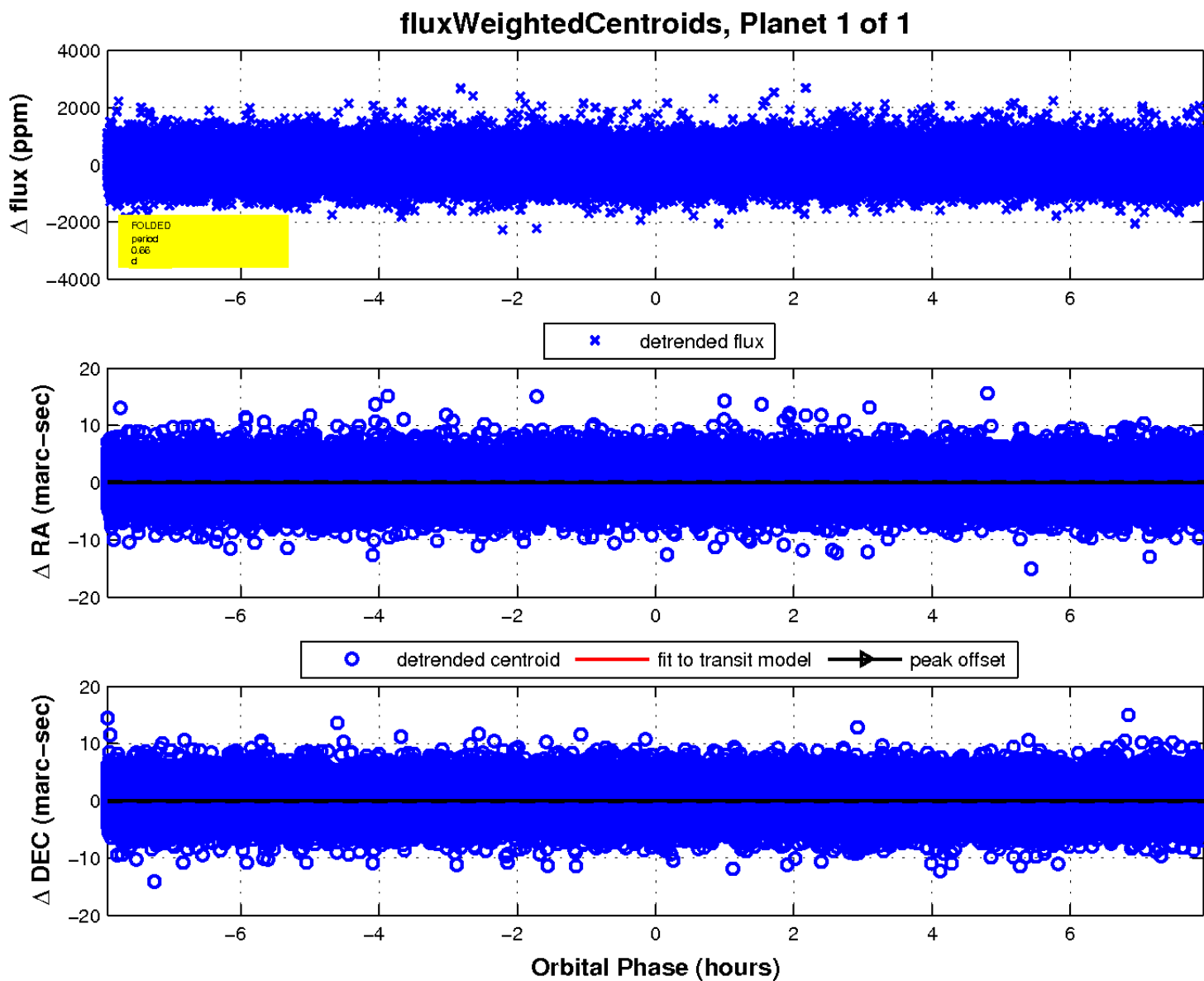
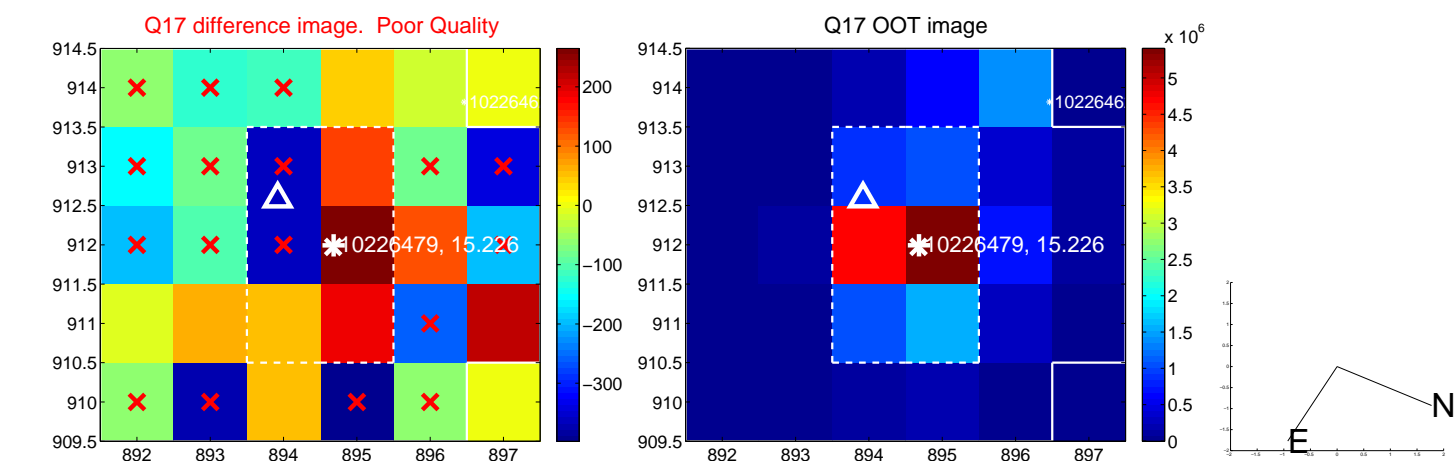
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UKIRT Image

