

KIC 011179734

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})
011179734-01	OBS	No	1.134220	131.855421	25.4	2.667	8.5	6.8	2.32	8230	1.36	32413.26

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011179734-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—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.

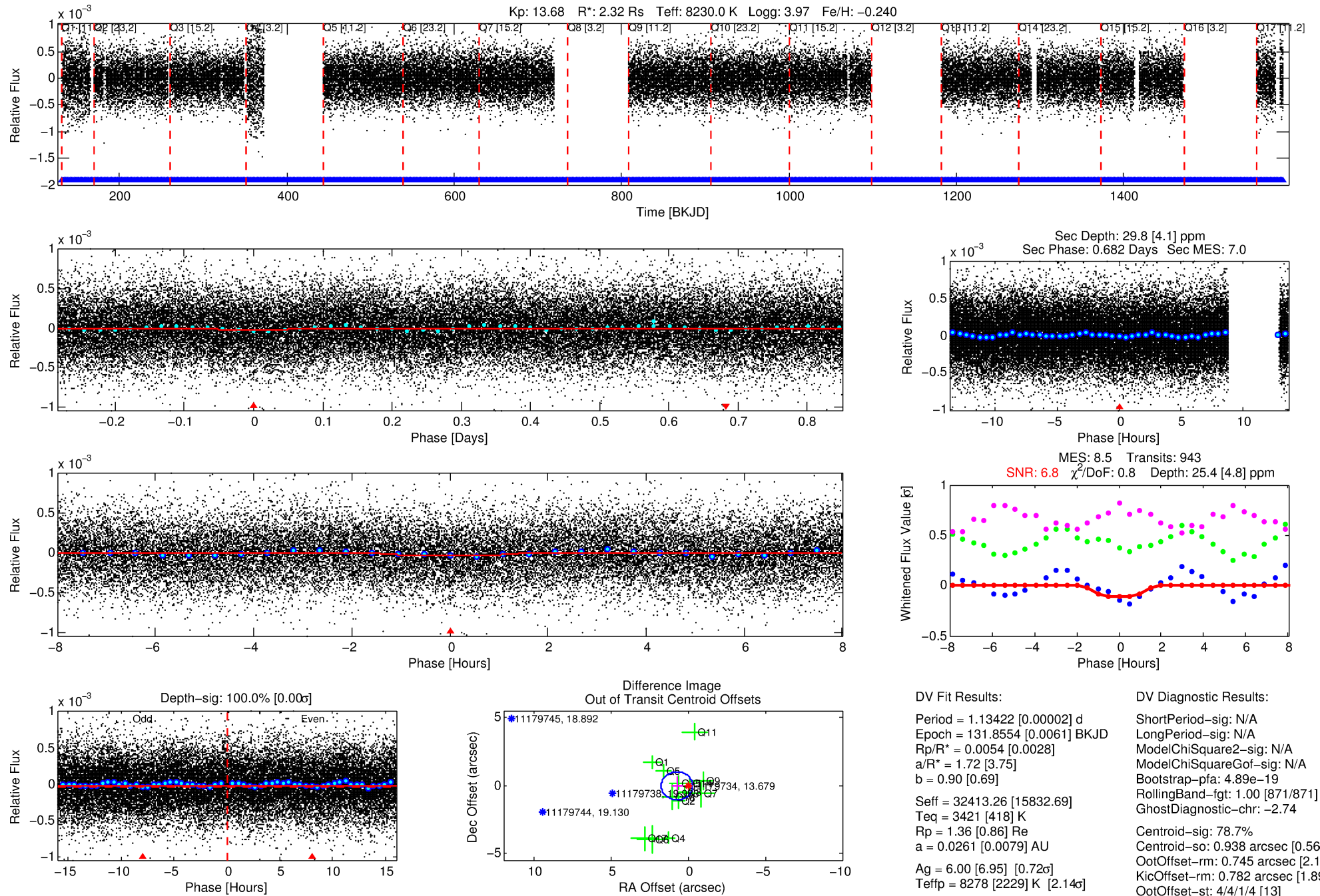
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011179734-01

No Significant Match Found

DV One-Page Summary

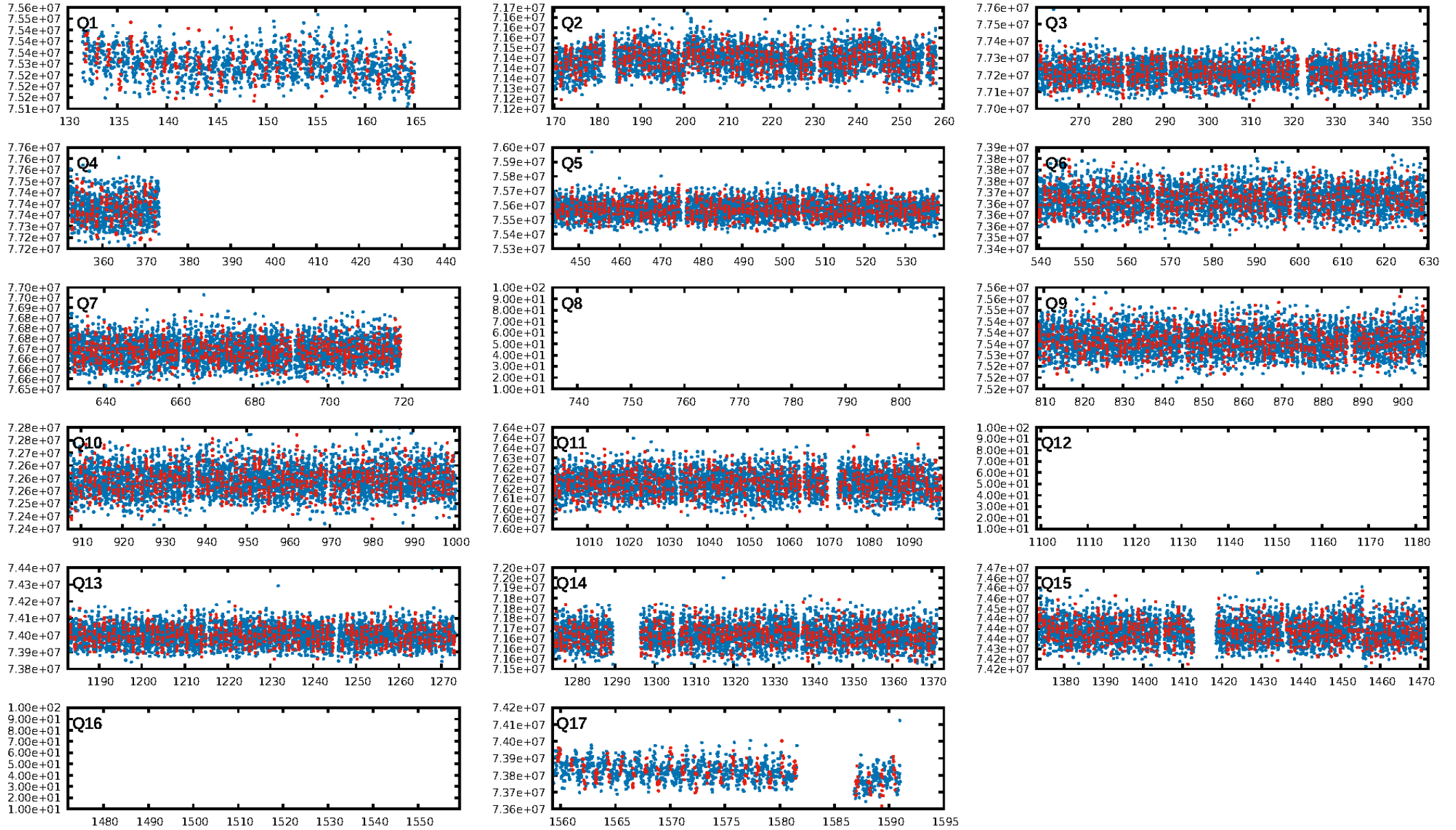
KIC: 11179734 Candidate: 1 of 1 Period: 1.134 d



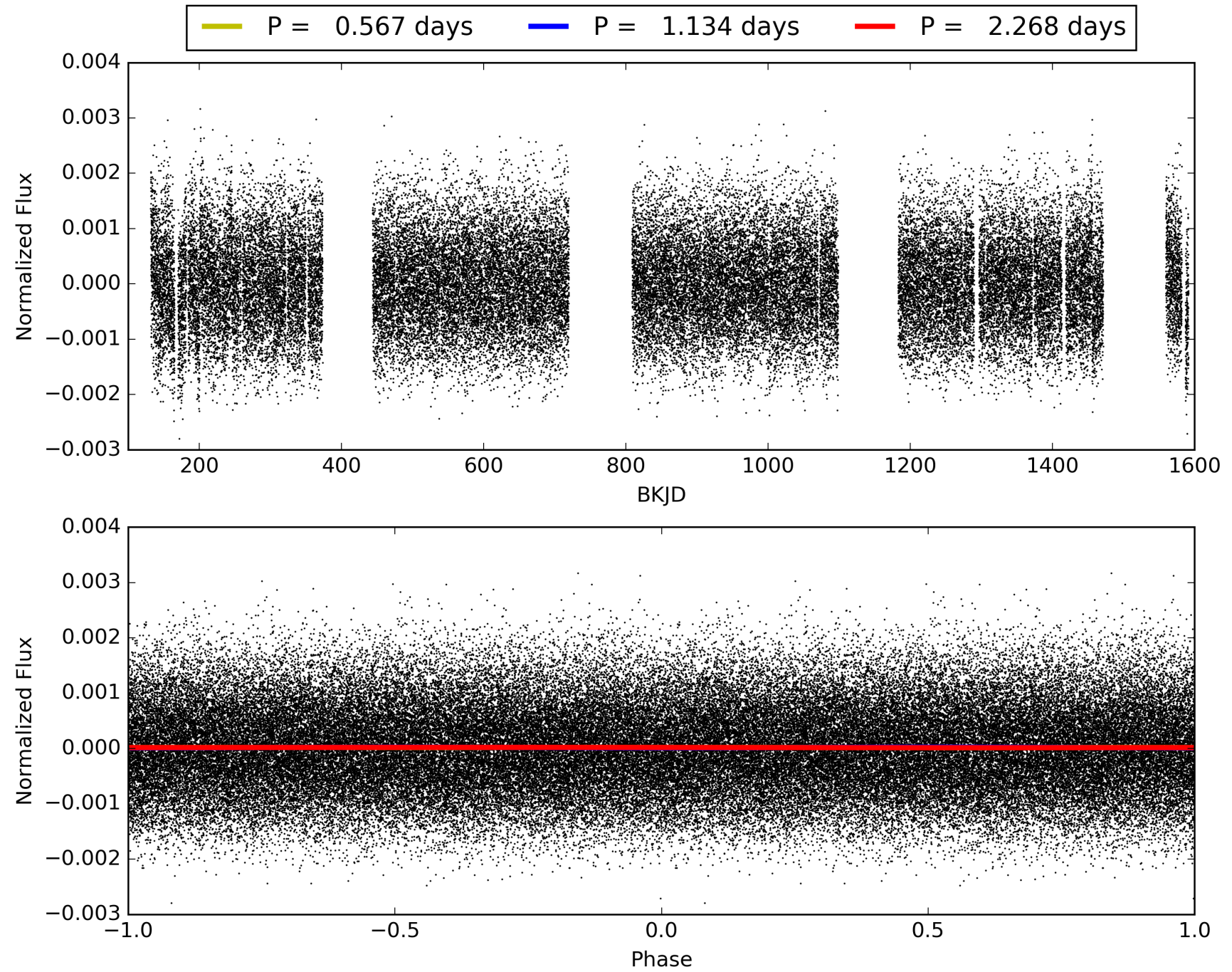
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:00:30 Z

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

TCE 011179734-01, PDC Light Curves

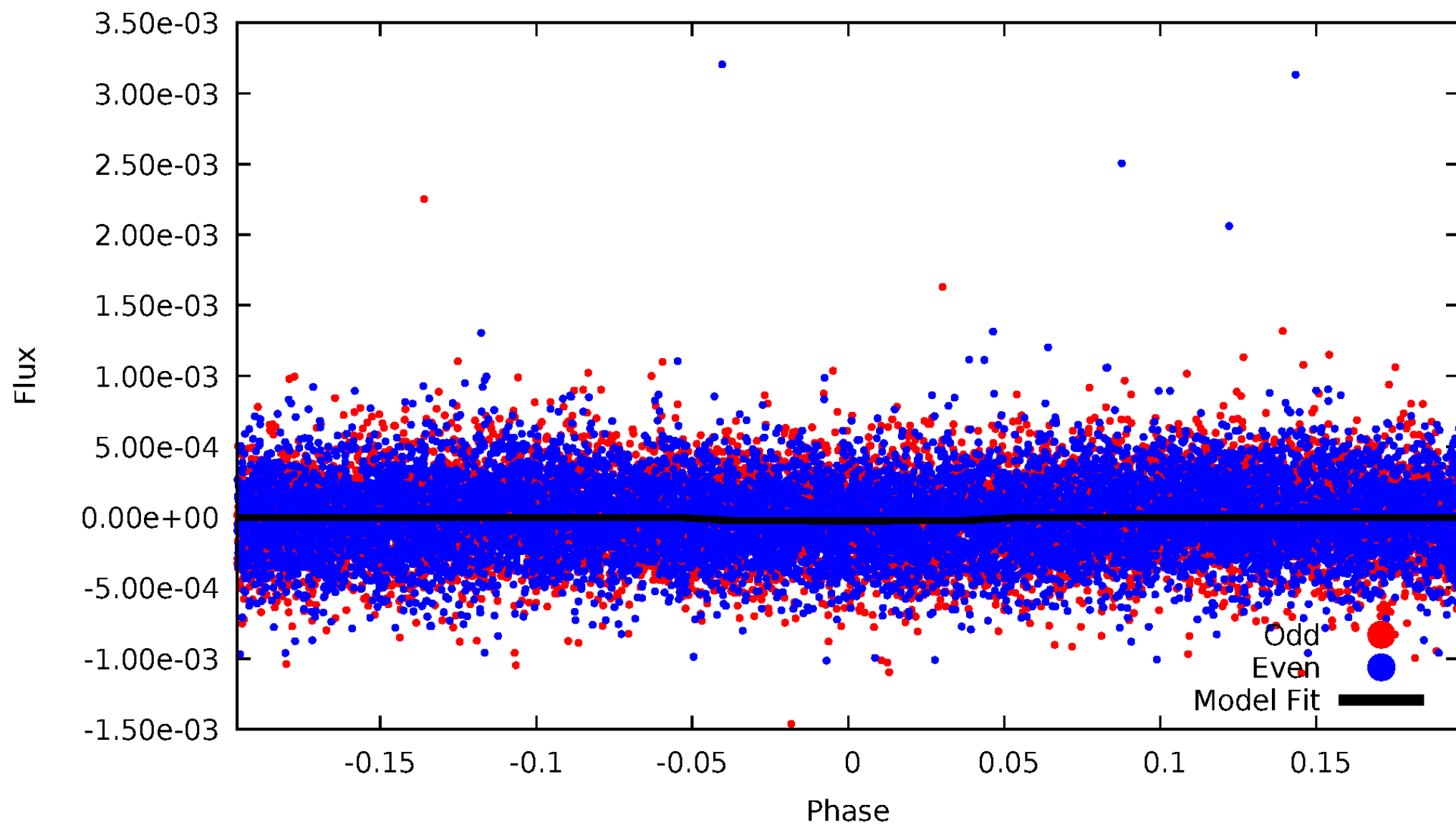


TCE 011179734-01



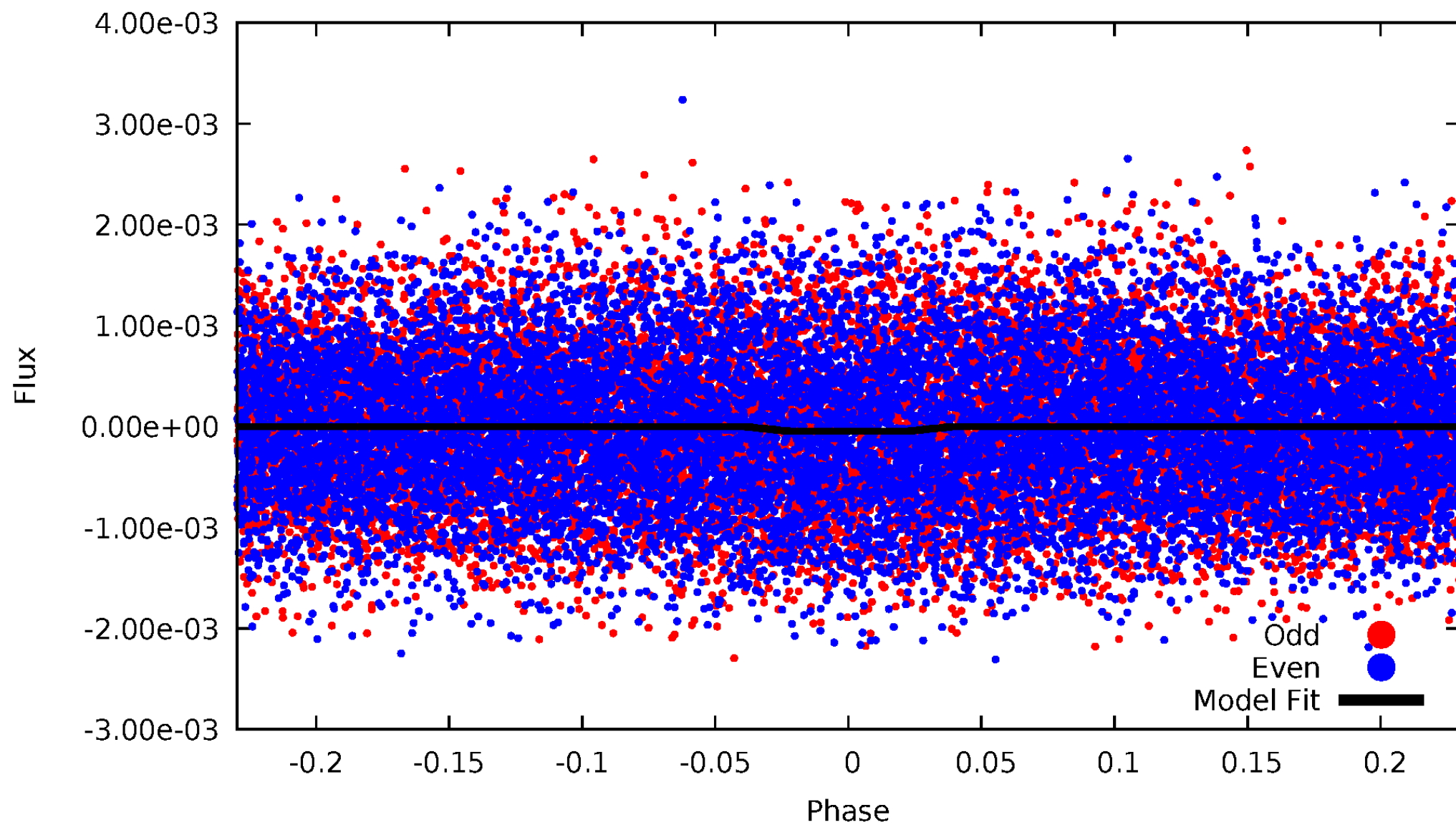
DV Odd/Even

TCE 011179734-01



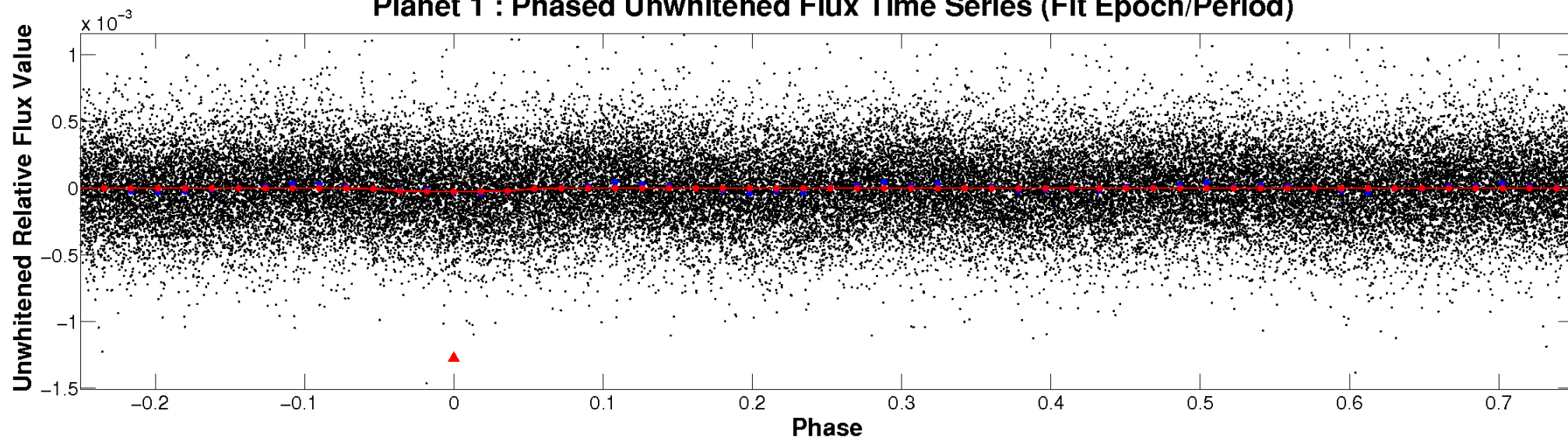
ALT Odd/Even

TCE 011179734-01

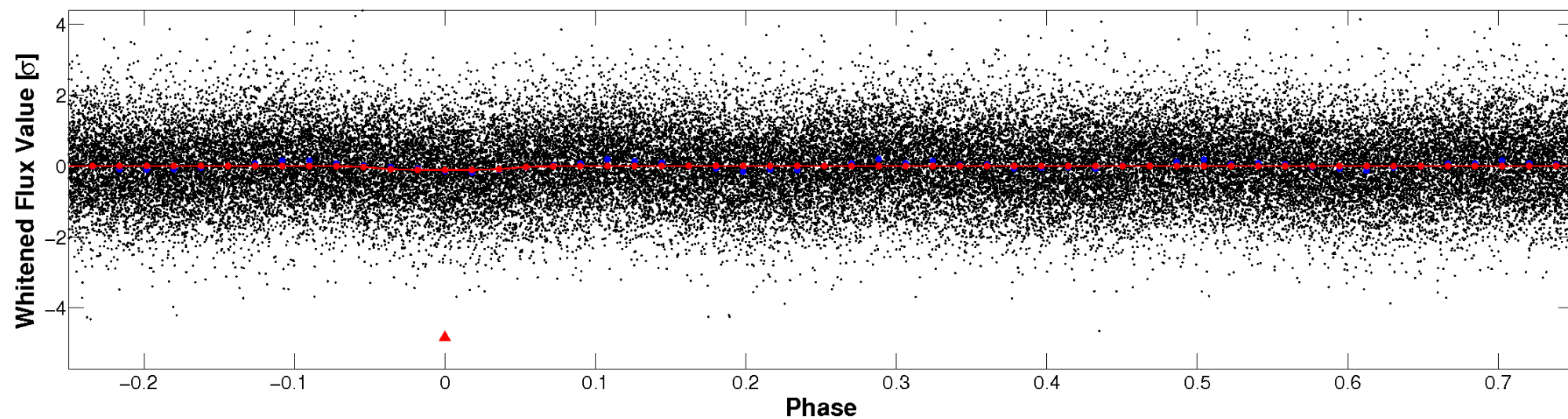


Non-Whitened Vs. Whitened Light Curve

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

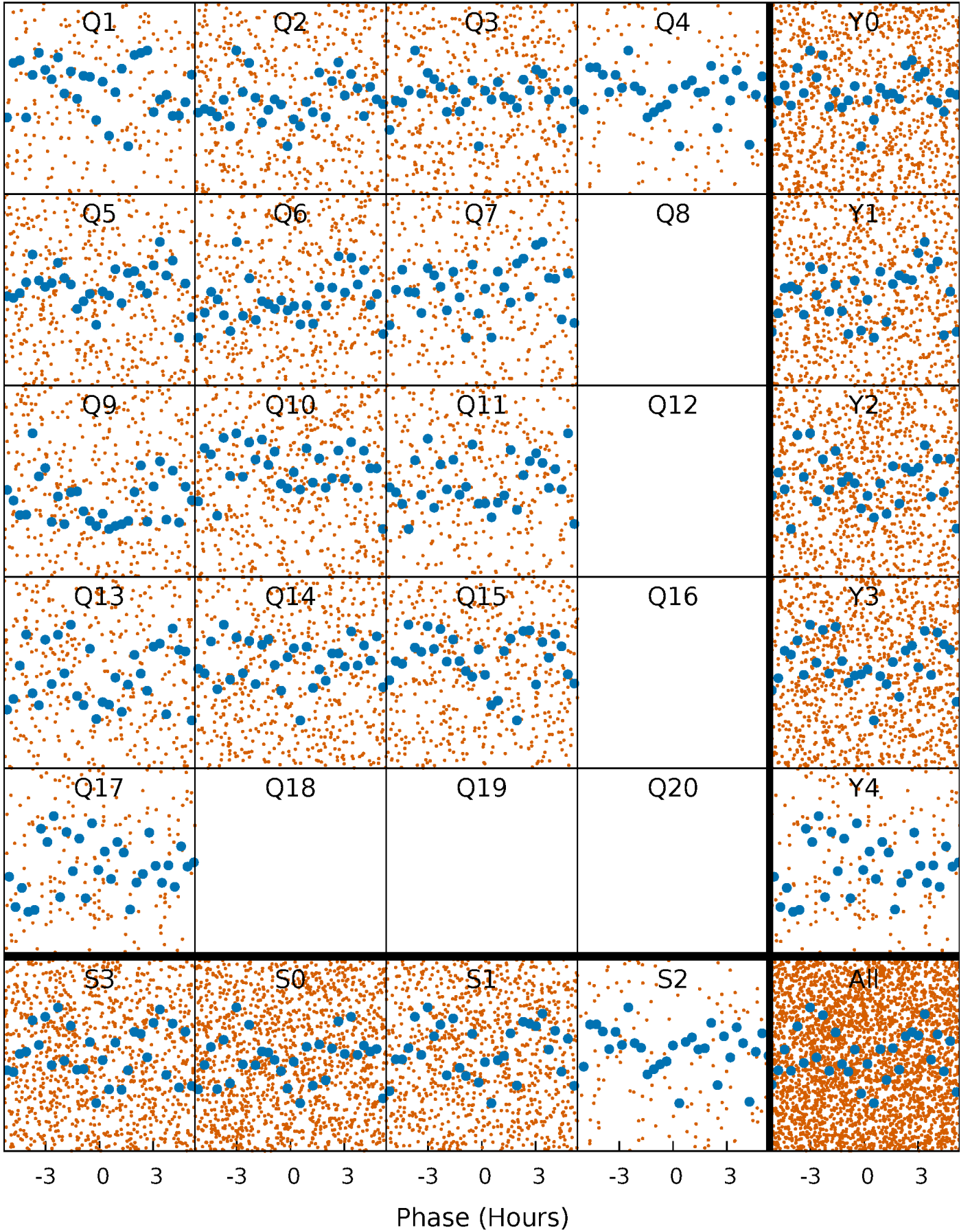


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



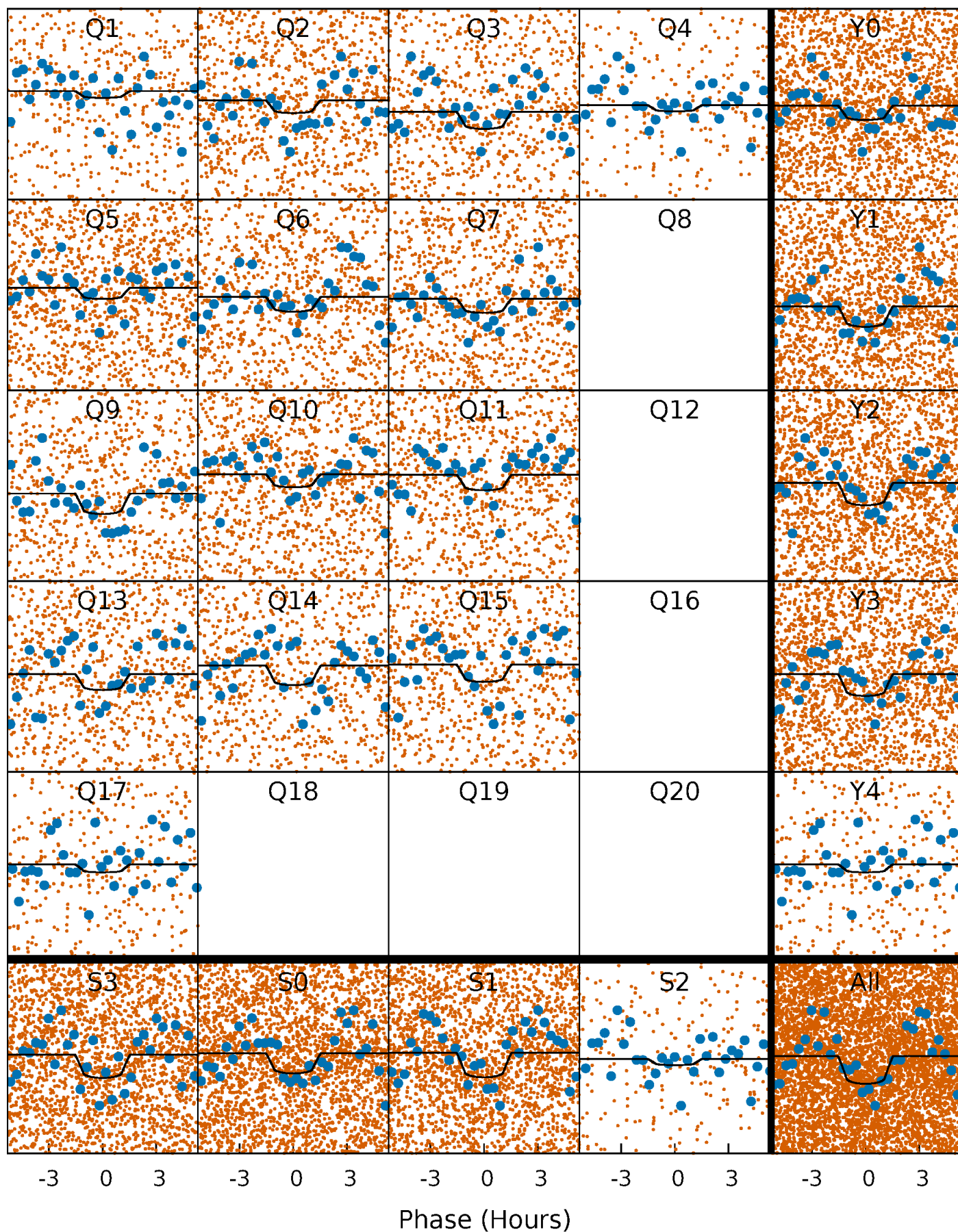
PDC Quarter-Phased Transit Curves

TCE 011179734-01 P= 1.134220 Days $T_0=131.855421$ (BKJD)



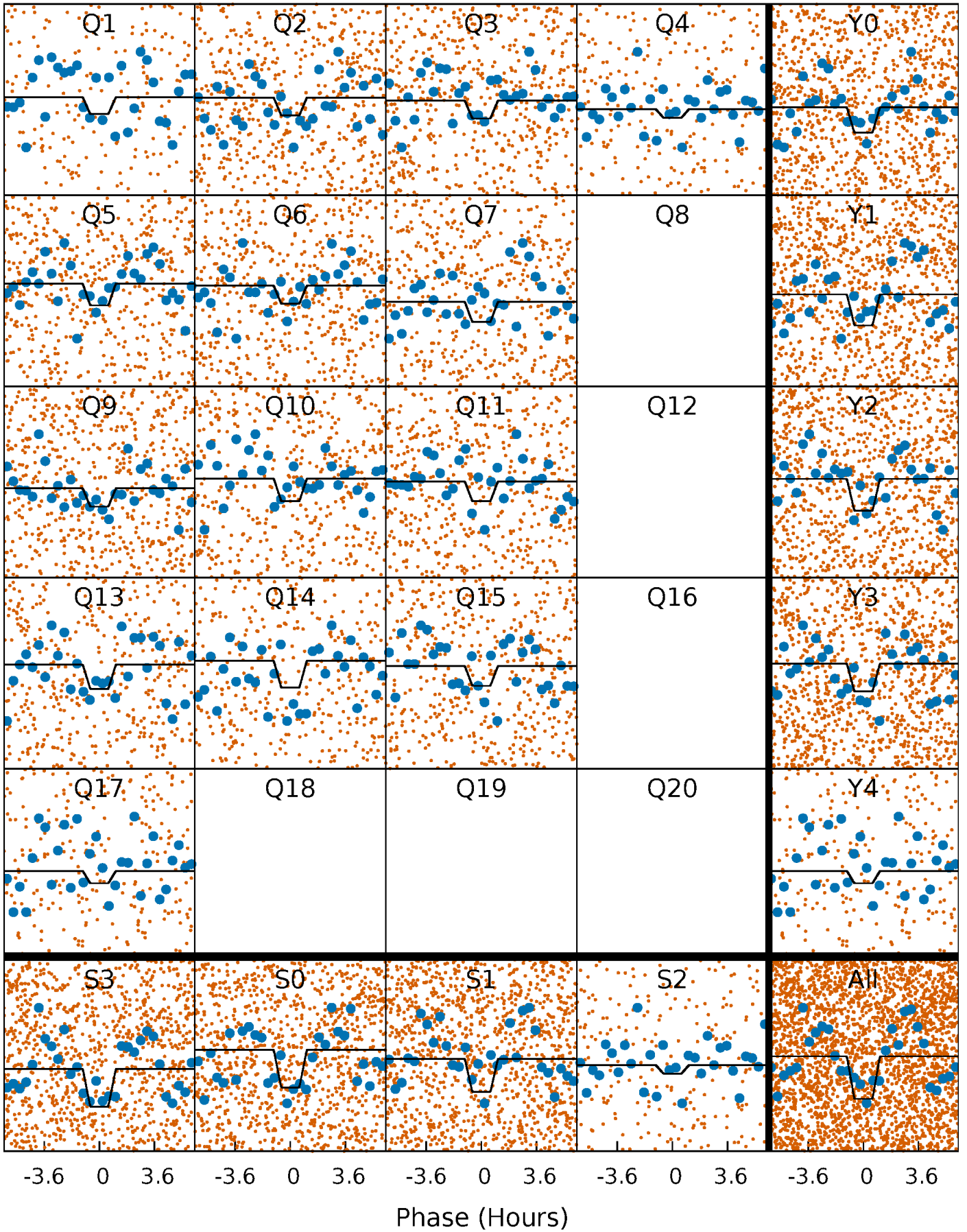
DV Quarter-Phased Transit Curves

TCE 011179734-01 P= 1.134220 Days $T_0=131.855421$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

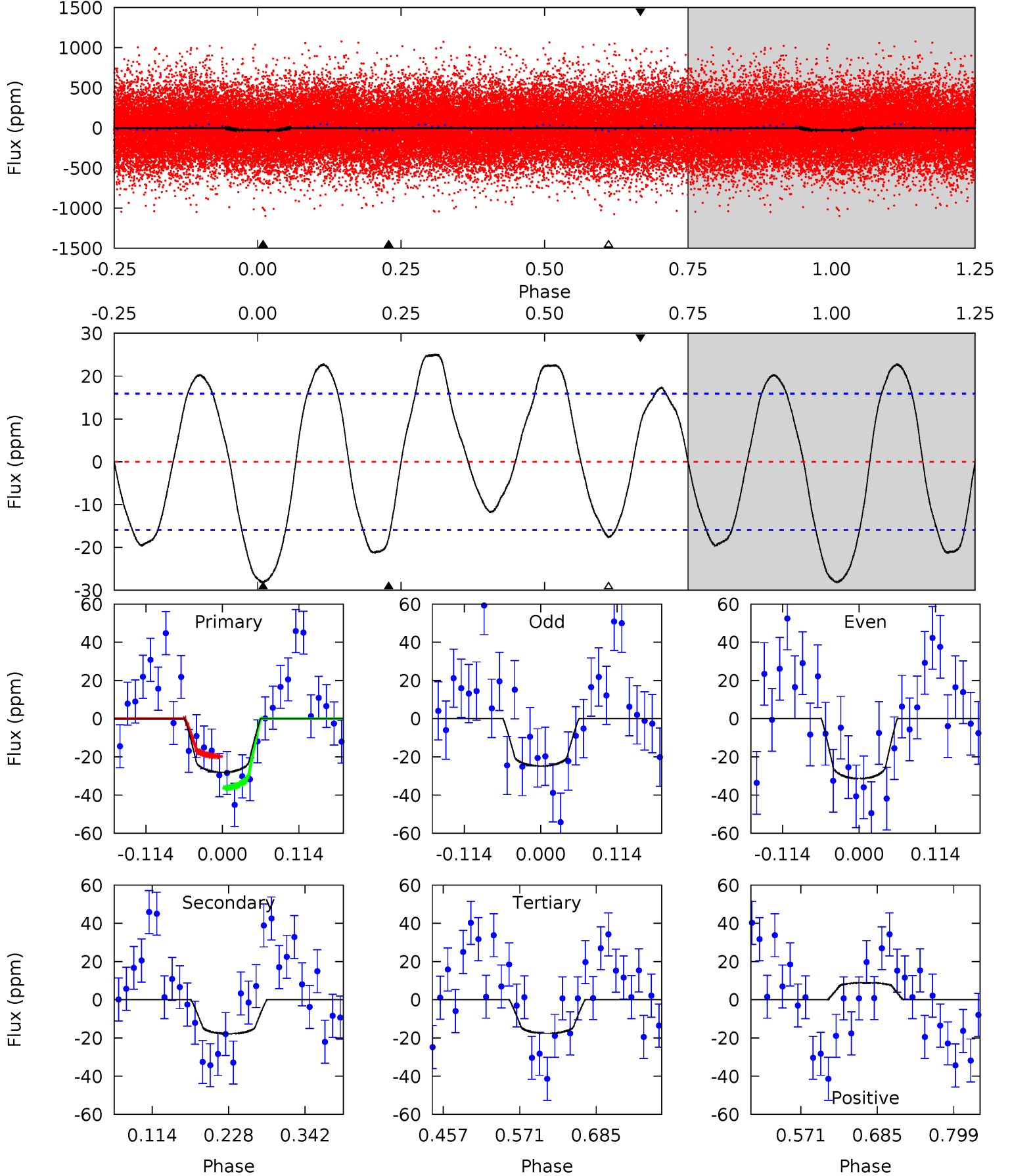
TCE 011179734-01 P= 1.134268 Days $T_0=131.840421$ (BKJD)



DV Model-Shift Uniqueness Test

011179734-01, P = 1.134220 Days, E = 130.721201 Days

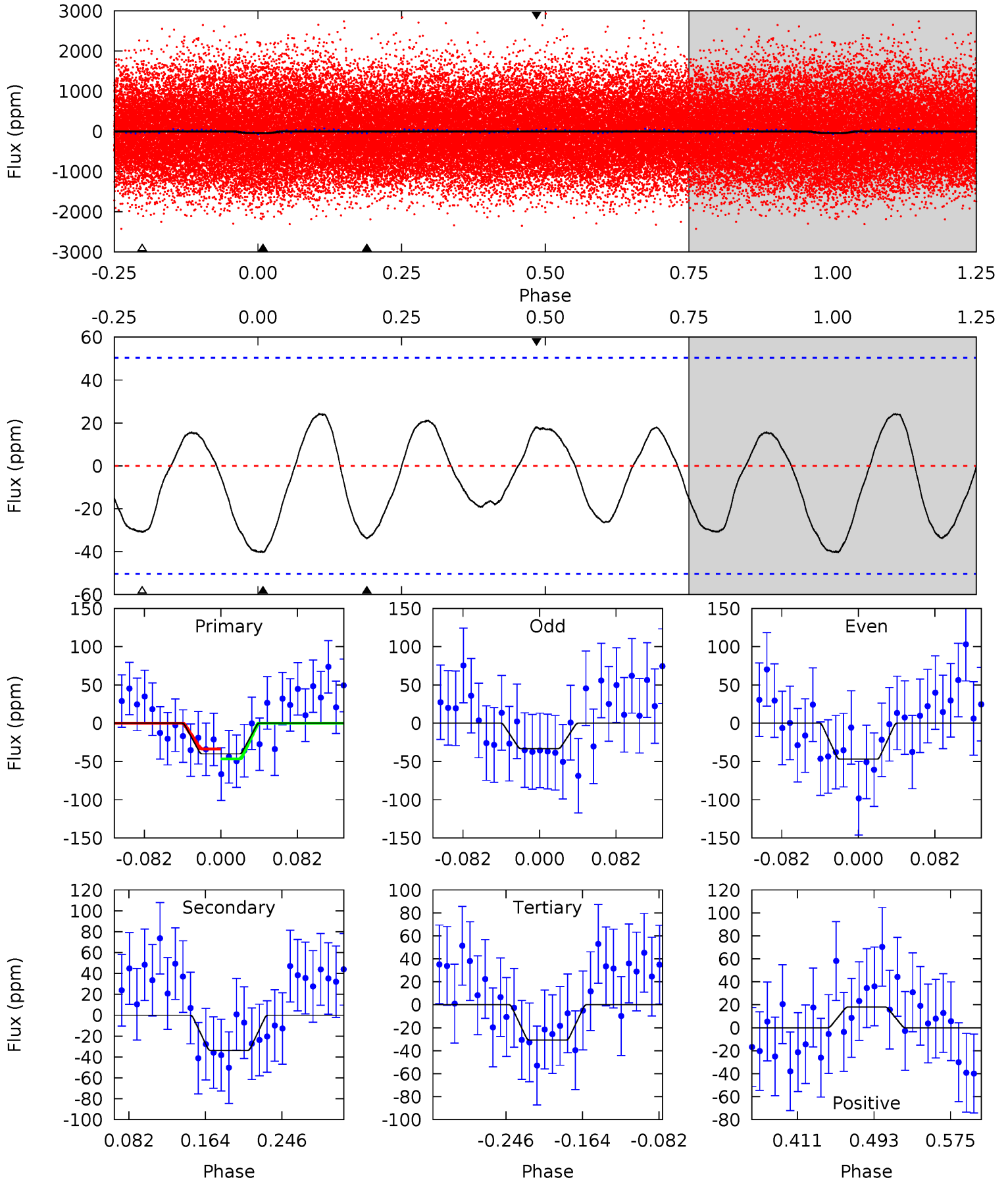
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.02	5.08	5.02	2.54	4.54	1.58	3.69	3.00	5.48	0.06	2.54	0.95	0.91	0.47	2.40



Alt Model-Shift Uniqueness Test

011179734-01, P = 1.134268 Days, E = 130.706153 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.67	3.08	2.81	1.64	4.61	1.74	1.46	0.86	2.02	0.27	1.44	0.63	0.74	0.38	0.60



Stellar Parameters For KIC 011179734

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8230^{+228}_{-342}	$3.973^{+0.259}_{-0.111}$	$-0.240^{+0.150}_{-0.350}$	$2.316^{+0.399}_{-0.799}$	$1.840^{+0.075}_{-0.402}$	$0.209^{+0.350}_{-0.072}$
	+3%/-4%	+7%/-3%	+62%/-146%	+17%/-34%	+4%/-22%	+168%/-34%
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 011179734-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-18 ± 4	$1.26^{+0.76}_{-0.60}$	4715^{+289}_{-400}	6961^{+3881}_{-1600}	$3.938^{+10.933}_{-2.405}$
Alt.	-34 ± 11	$1.64^{+0.78}_{-0.66}$	4700^{+291}_{-424}	7050^{+3028}_{-1352}	$4.416^{+8.148}_{-2.565}$

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 $A_{obs} \gg 1.0$

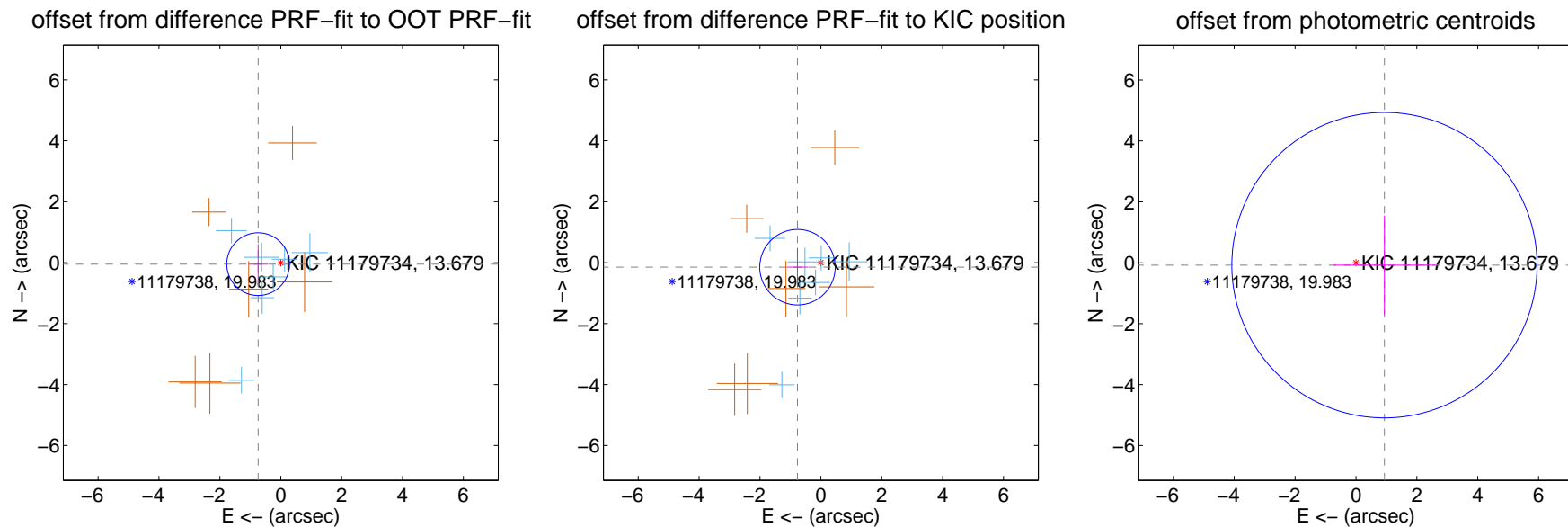
DV Centroid Data

Supplemental centroid analysis for 011179734-01. Kepler magnitude: 13.68. Transit SNR 6.79

There are 7 quarters with good PRF difference image offsets

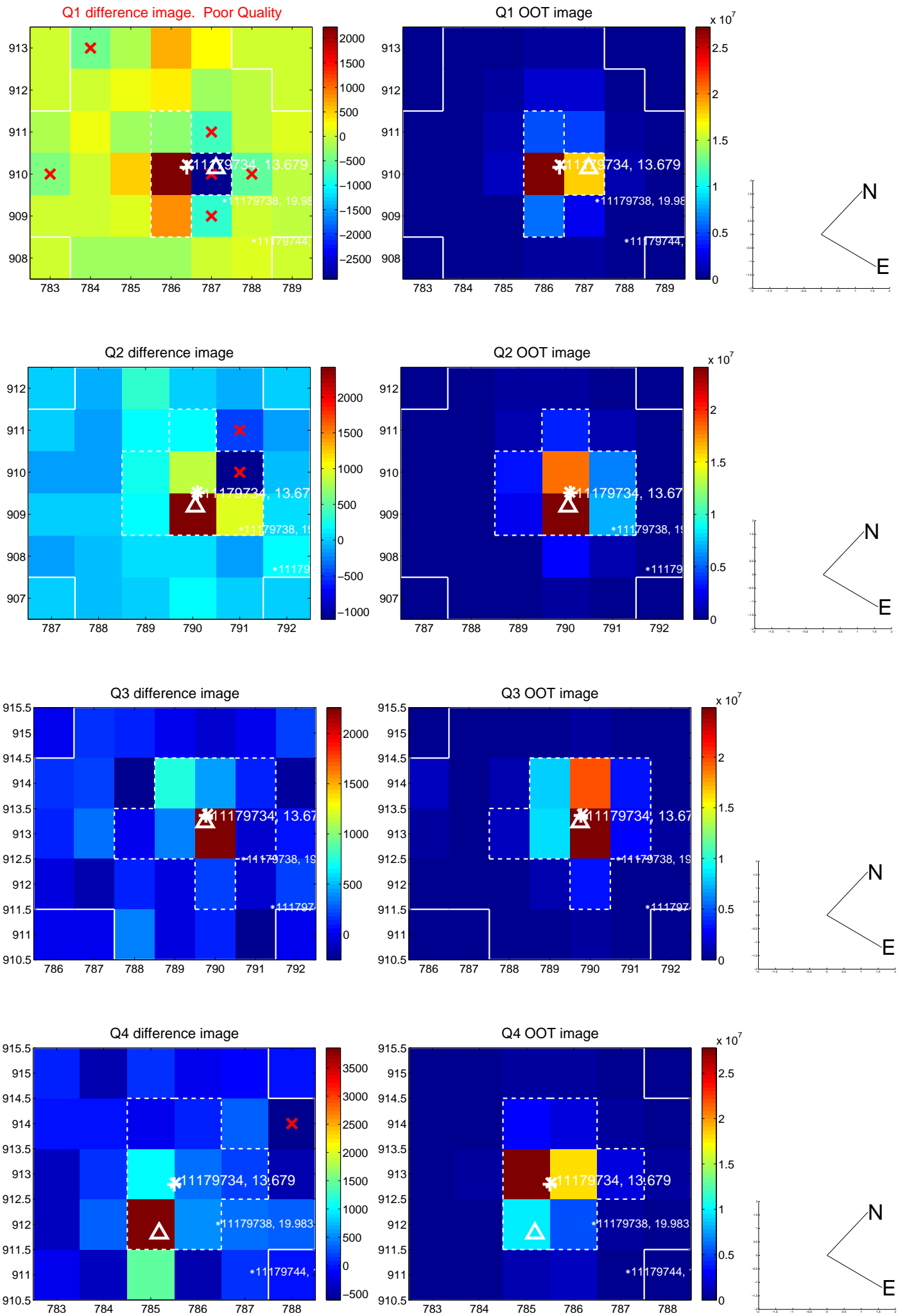
The direct PRF centroid is offset from the target star catalog position by about 0.26 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.745 ± 0.343	2.17	0.744 ± 0.323	-0.048 ± 0.655
PRF-fit source offset from KIC position	0.782 ± 0.413	1.89	0.768 ± 0.354	-0.148 ± 0.634
photometric centroid source offset	0.94 ± 1.67	0.56	-0.94 ± 1.67	-0.08 ± 1.63

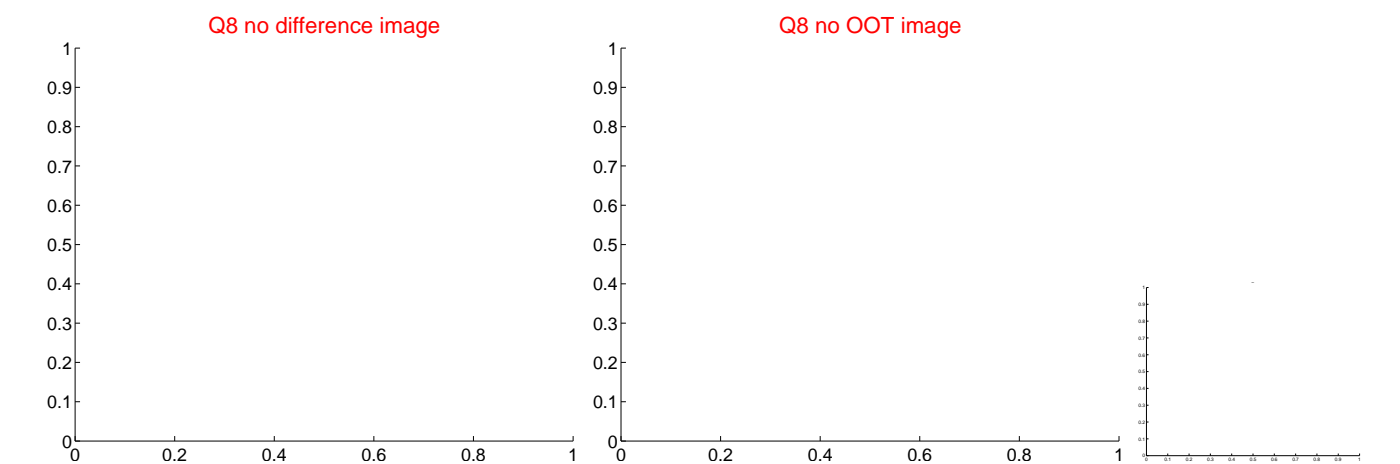
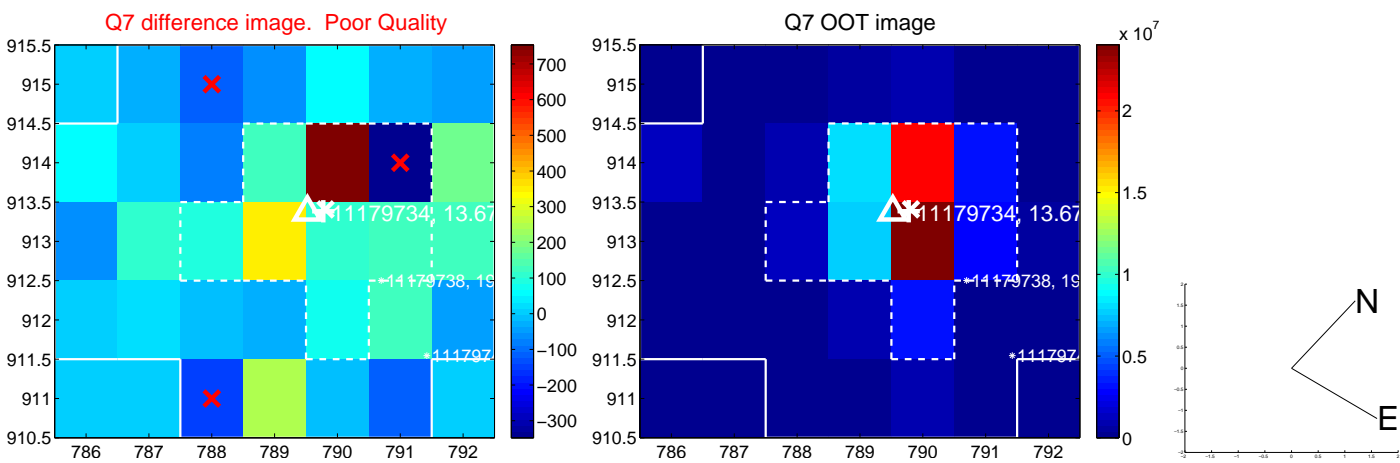
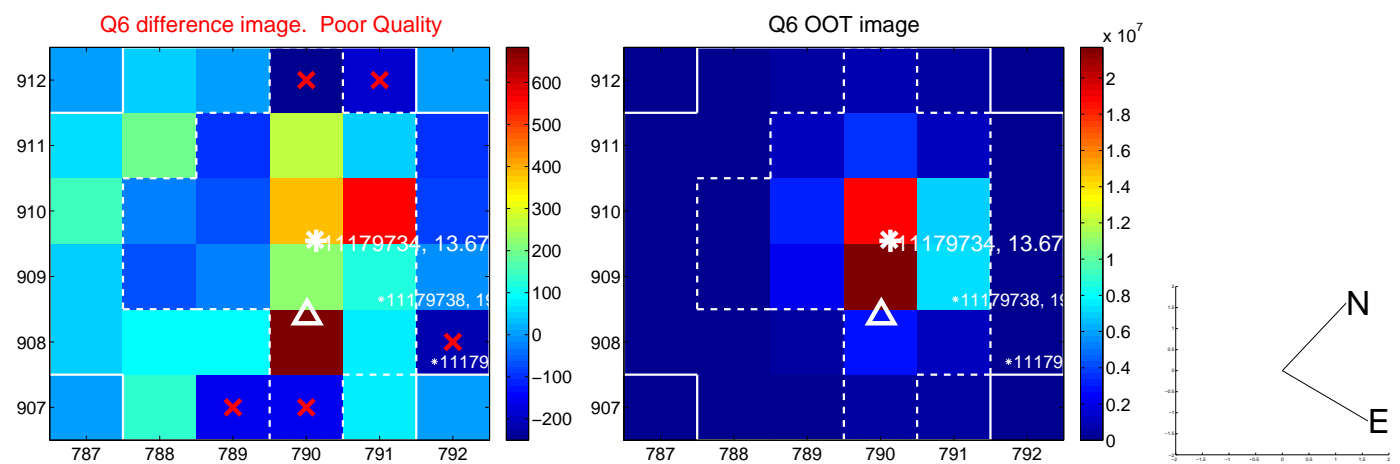
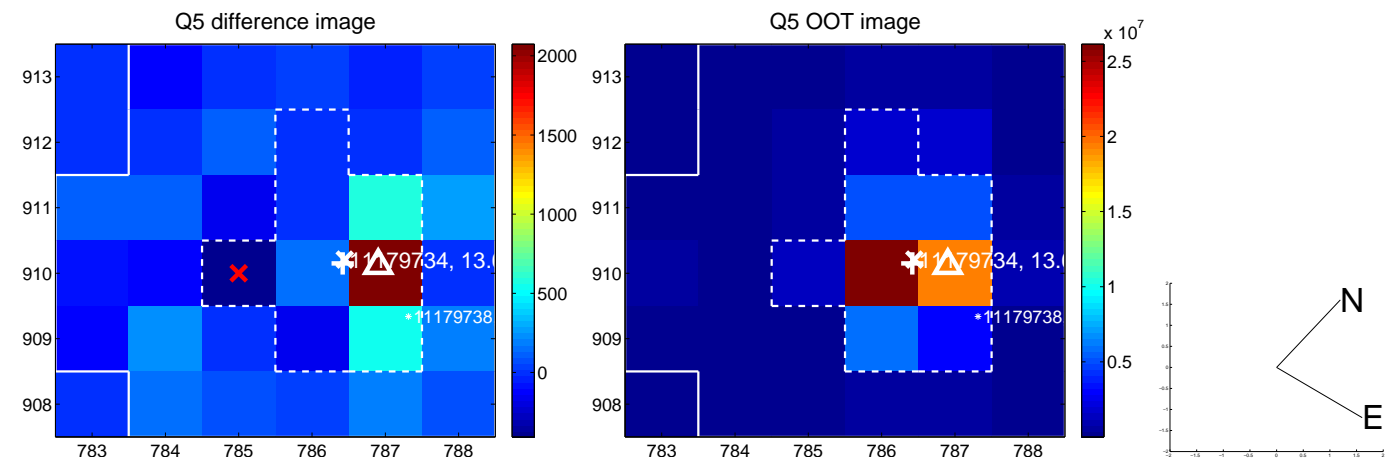


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

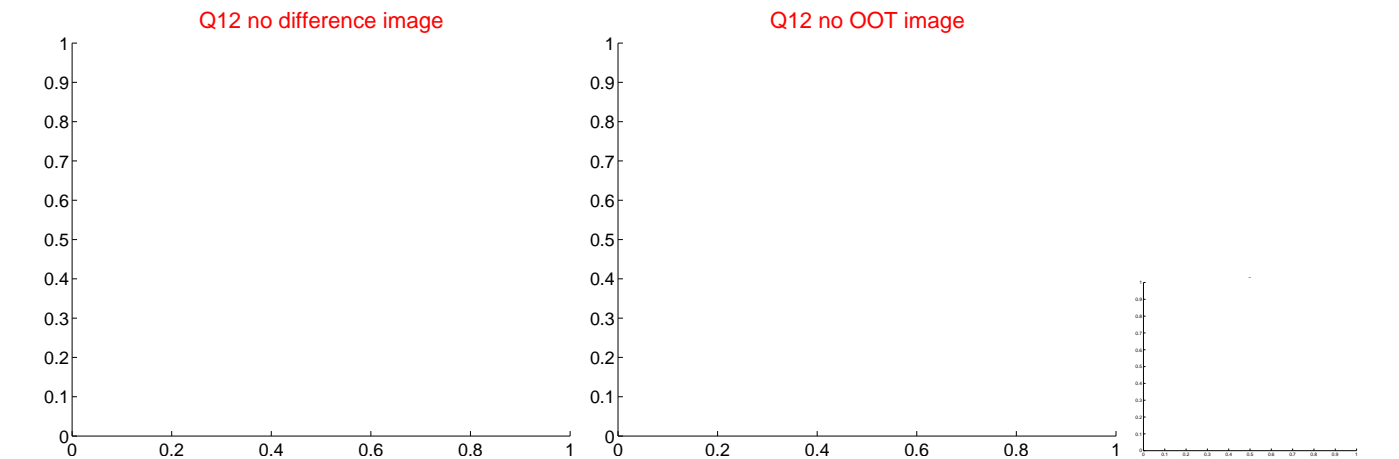
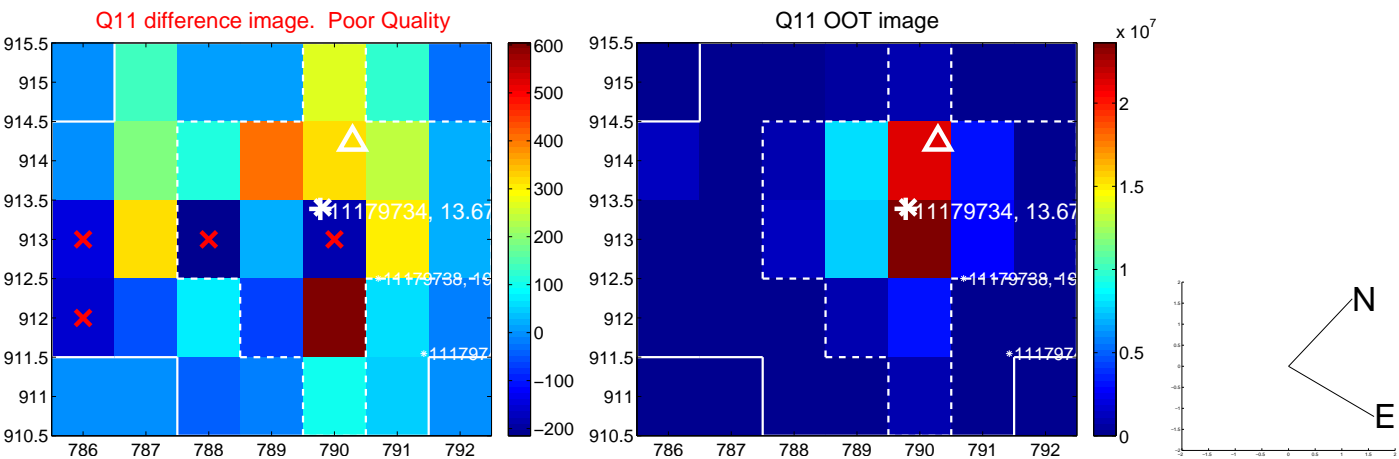
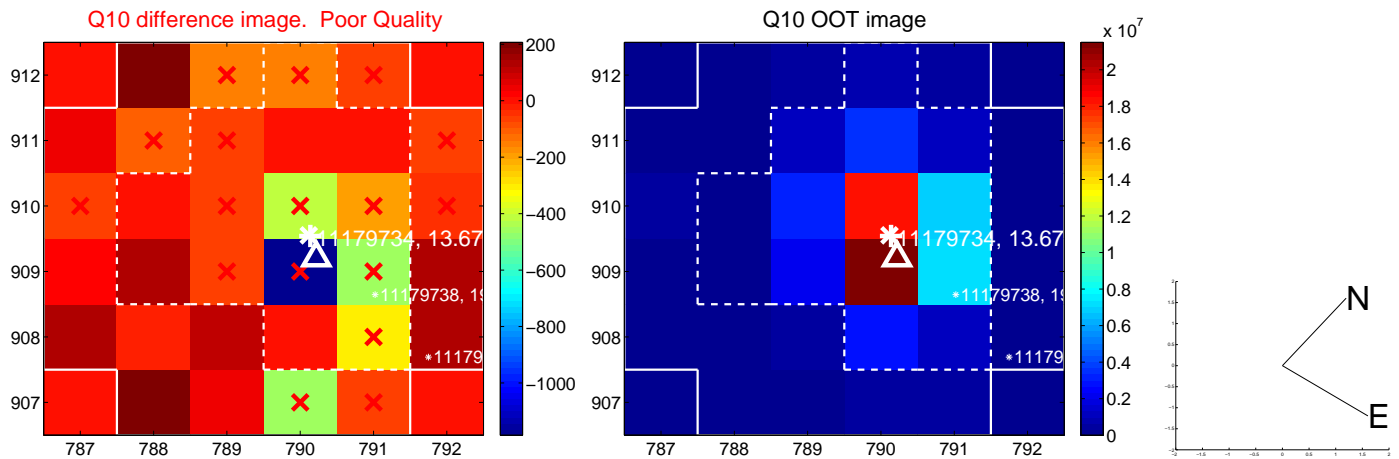
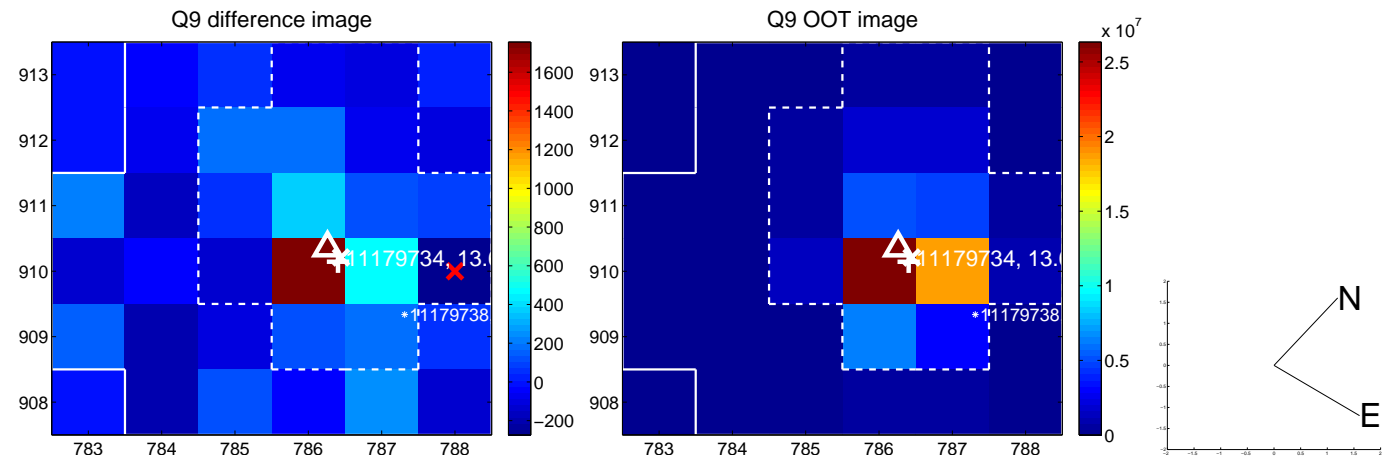
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



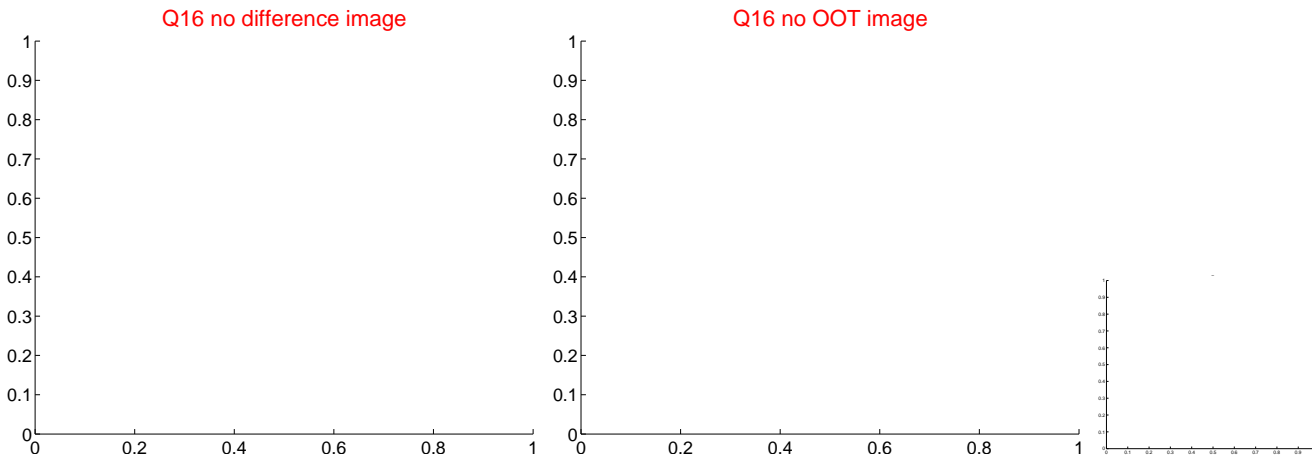
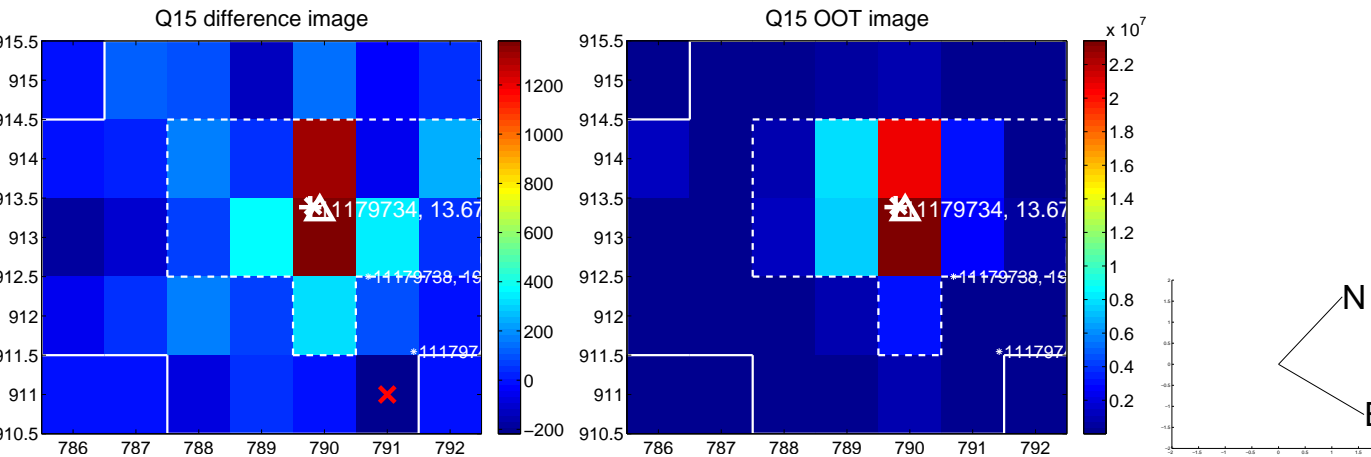
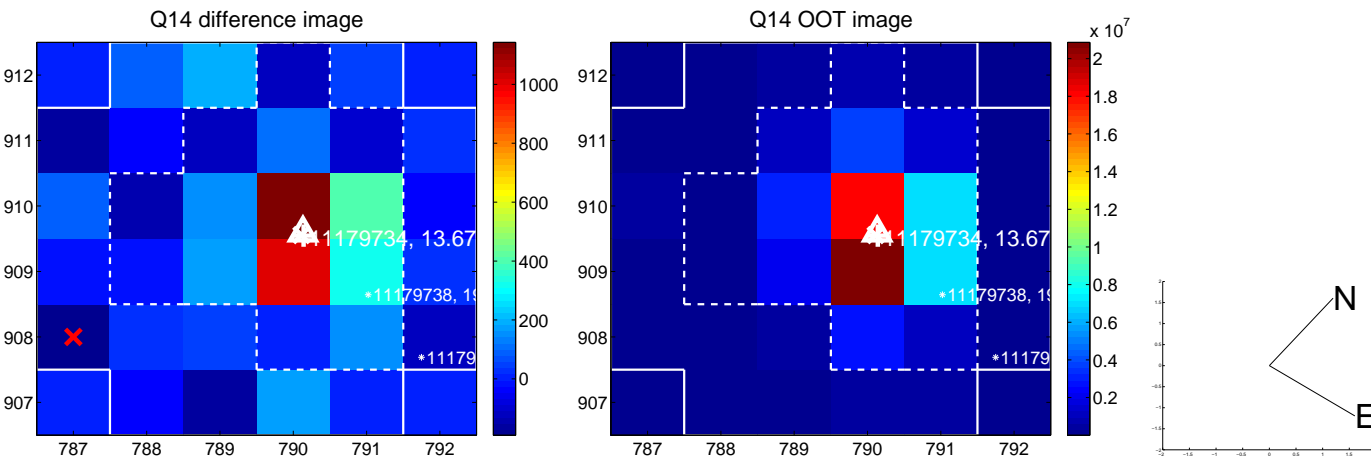
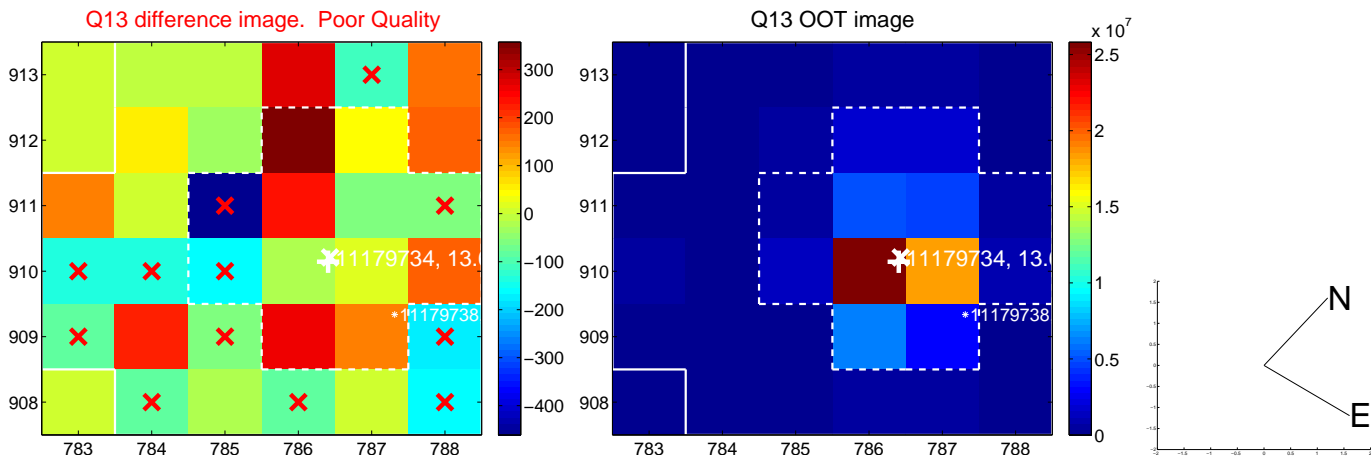
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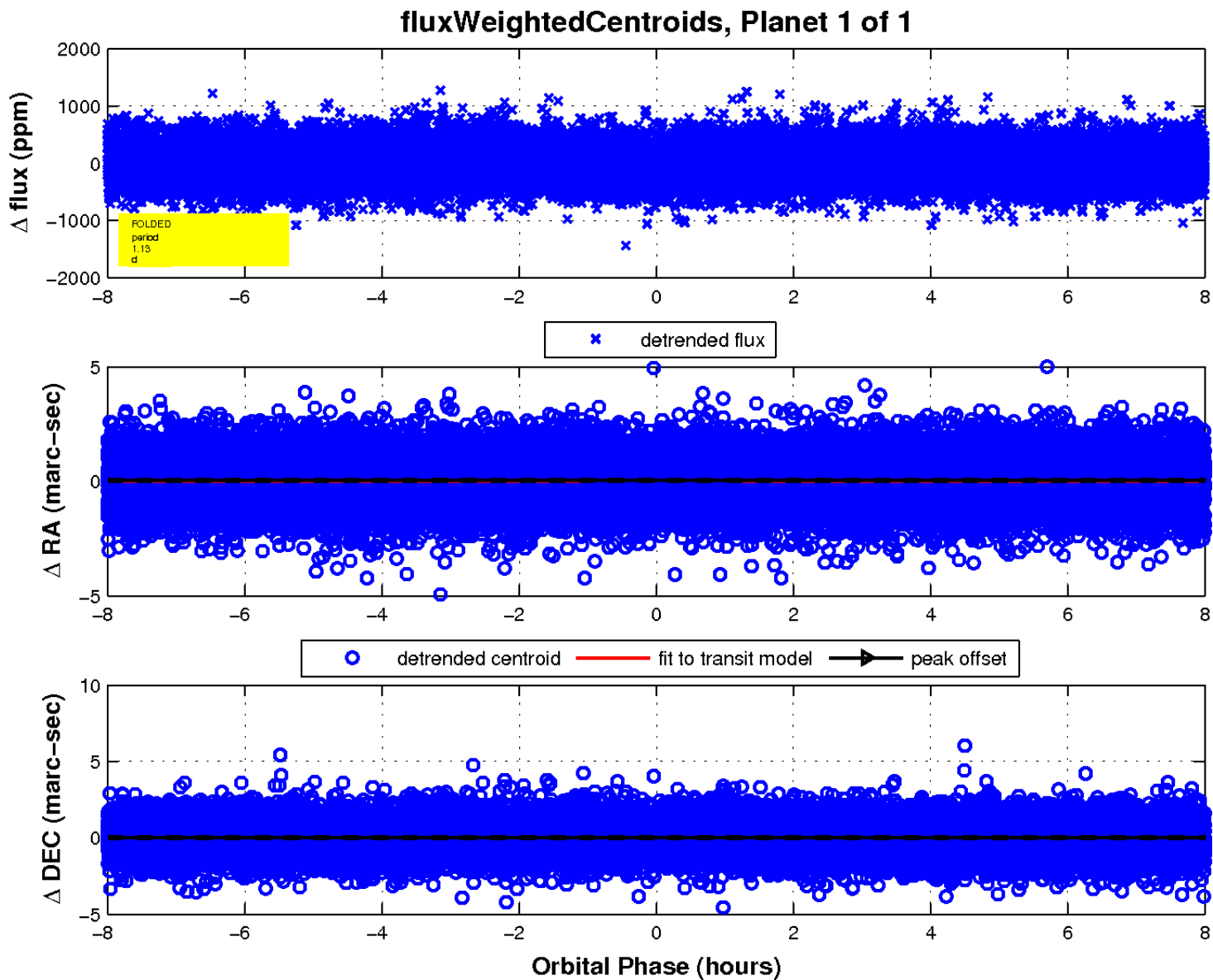
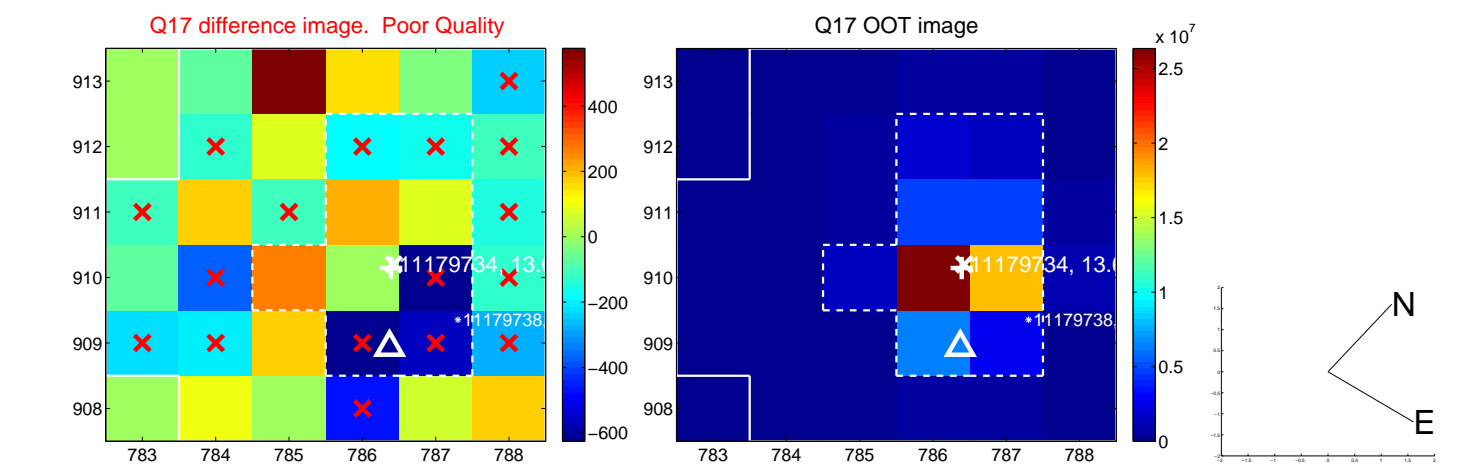
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UKIRT Image

