

KIC 008145462

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})
008145462-01	OBS	No	0.565786	132.066563	754.1	2.000	8.7	-1.0	0.92	5855	2.51	5293.54

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008145462-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_NOFITS—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.

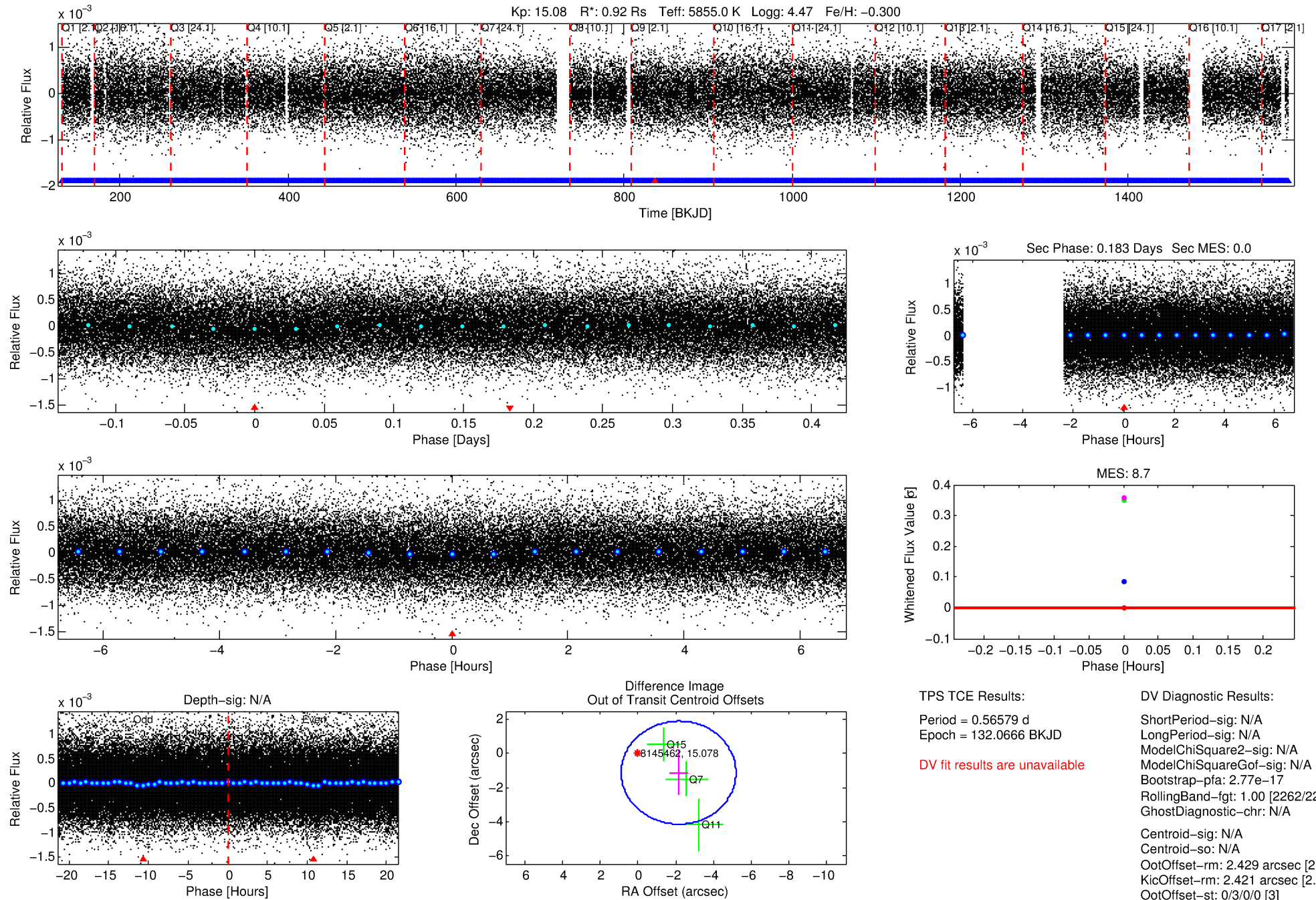
Ephemeris Match Information For 008145462-01

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
008145462-01	8145462	008145477-pri	8145477	1:1	20.8	3	-5	14.79	15.08	276.66	Direct-PRF	0	0.37	0.86

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

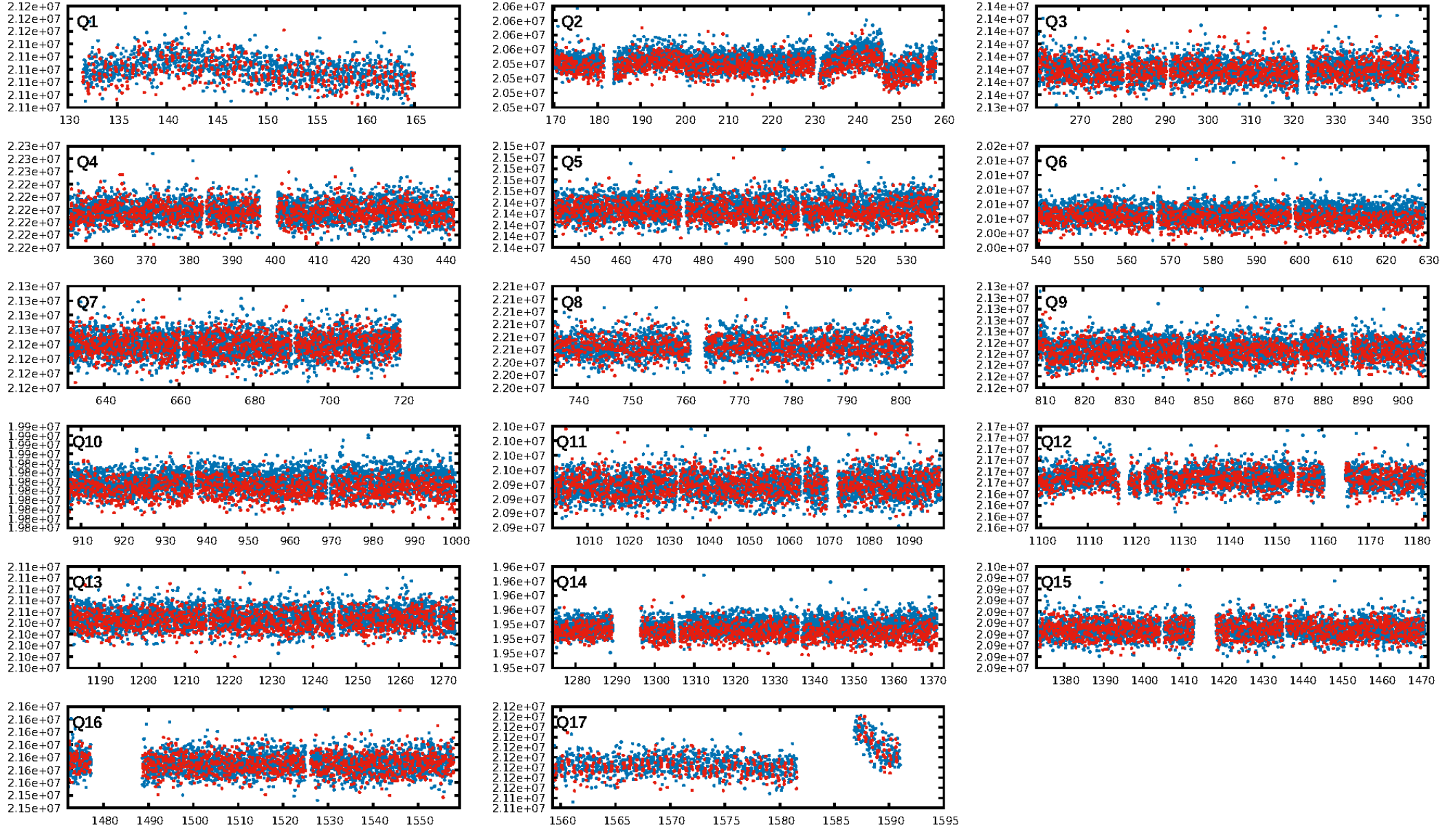
KIC: 8145462 Candidate: 1 of 1 Period: 0.566 d



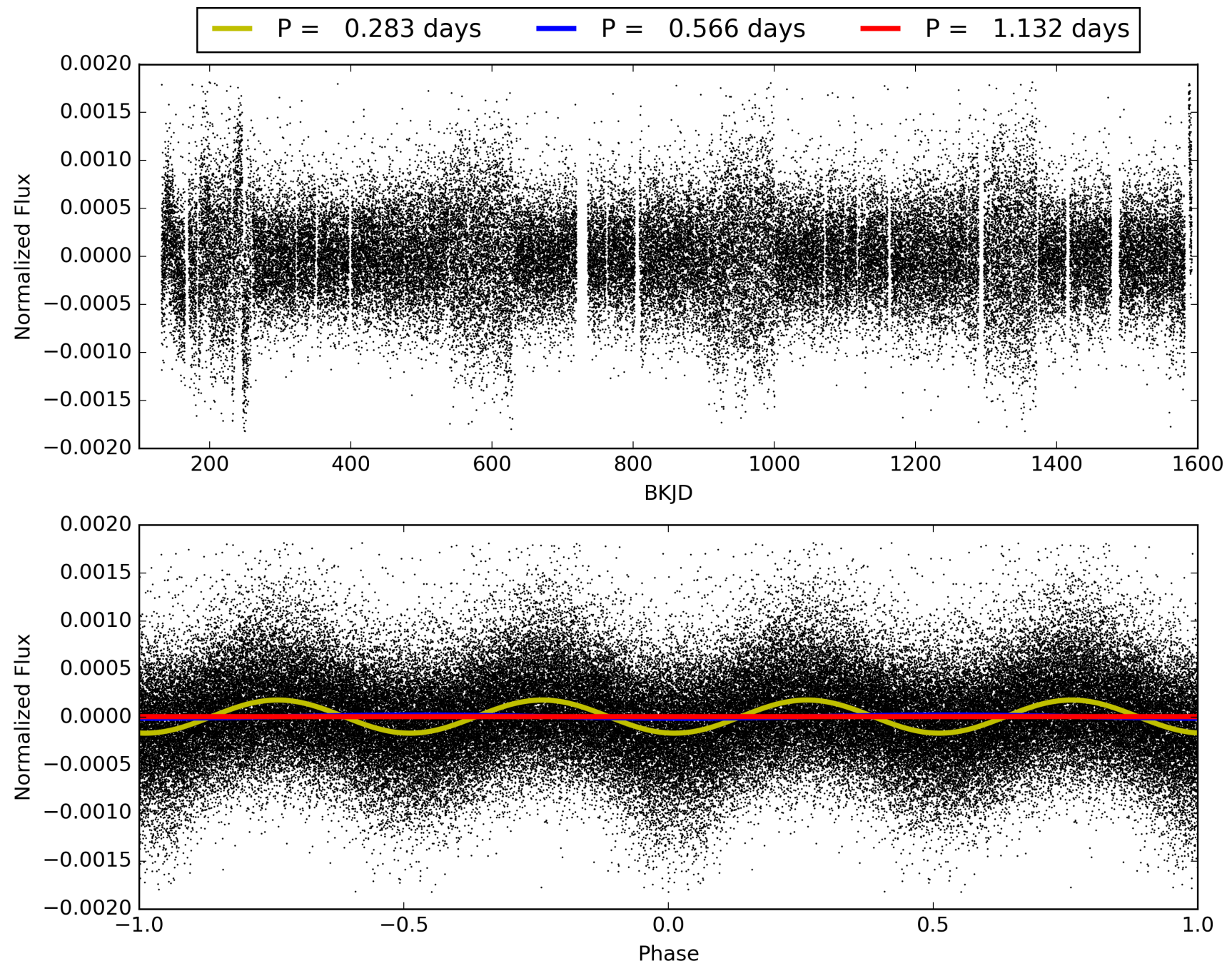
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 00:45:16 Z

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

TCE 008145462-01, PDC Light Curves

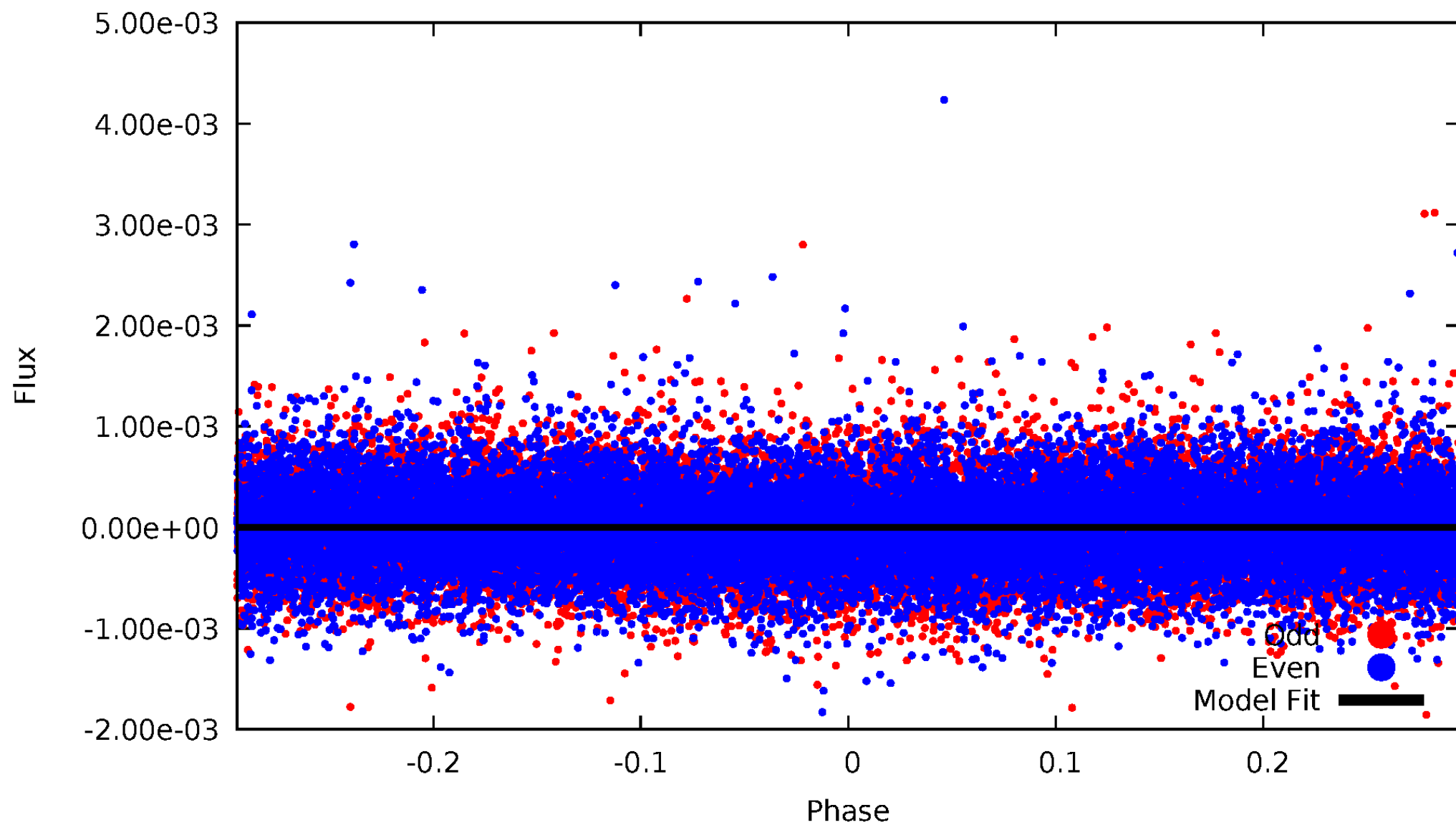


TCE 008145462-01



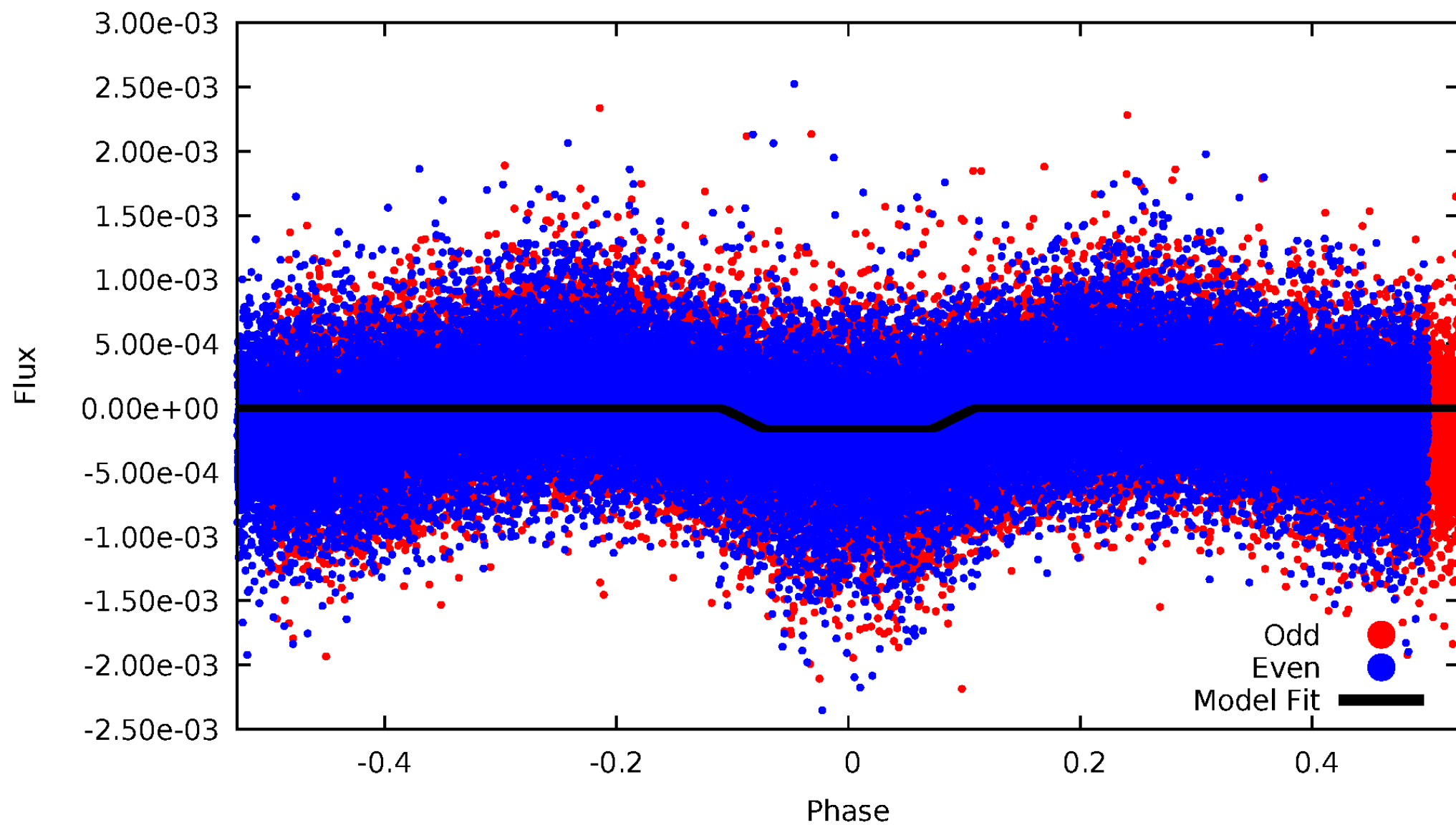
DV Odd/Even

TCE 008145462-01

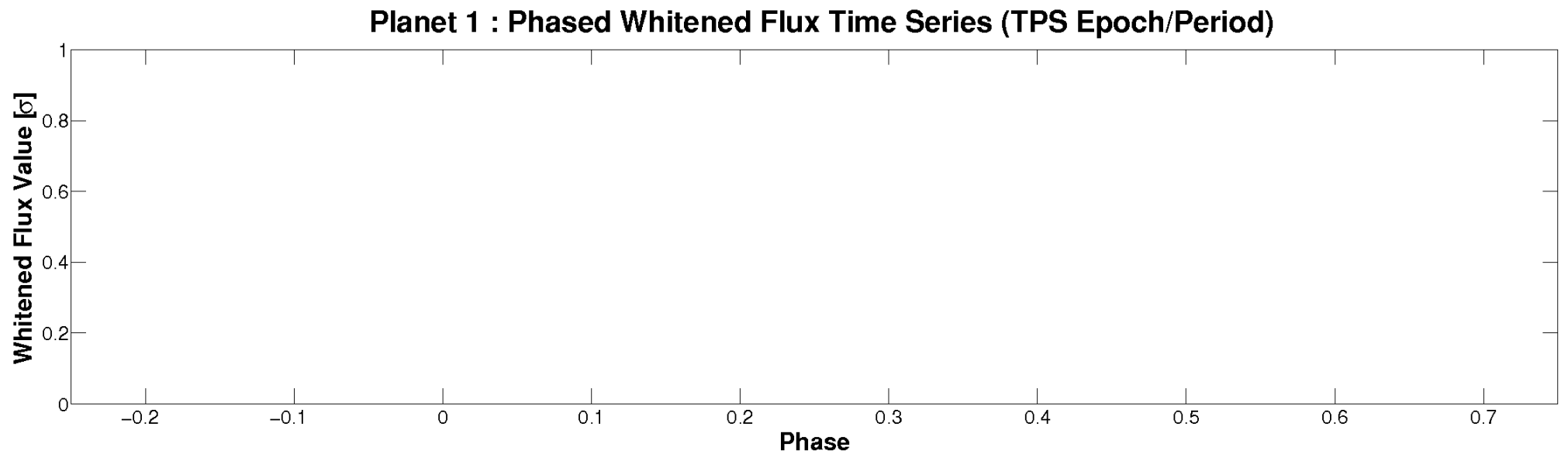
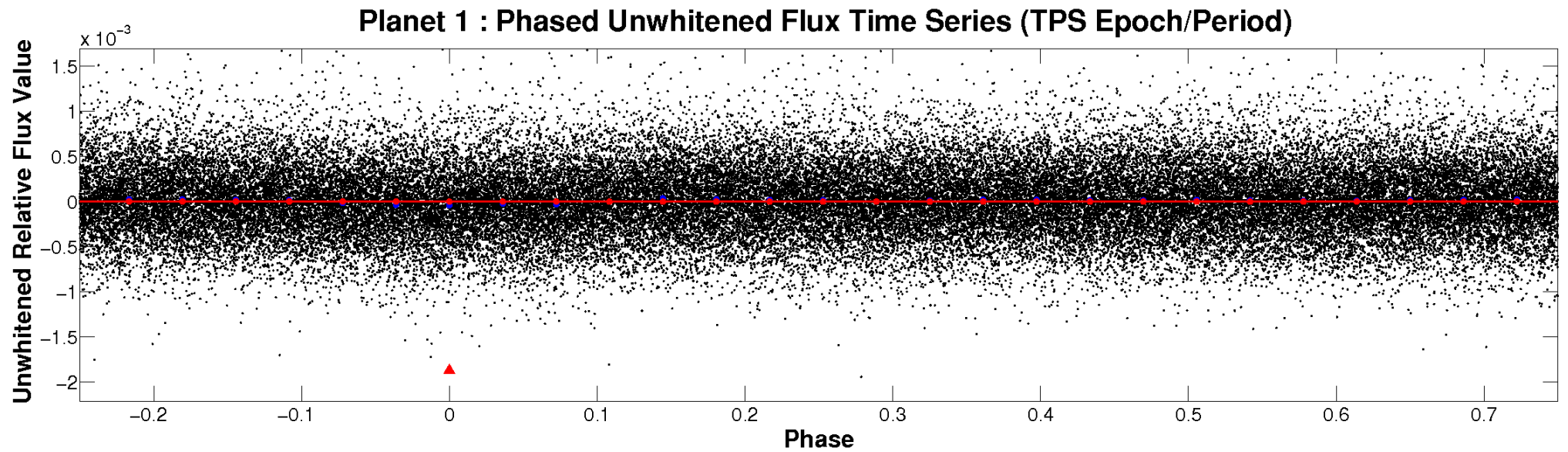


ALT Odd/Even

TCE 008145462-01

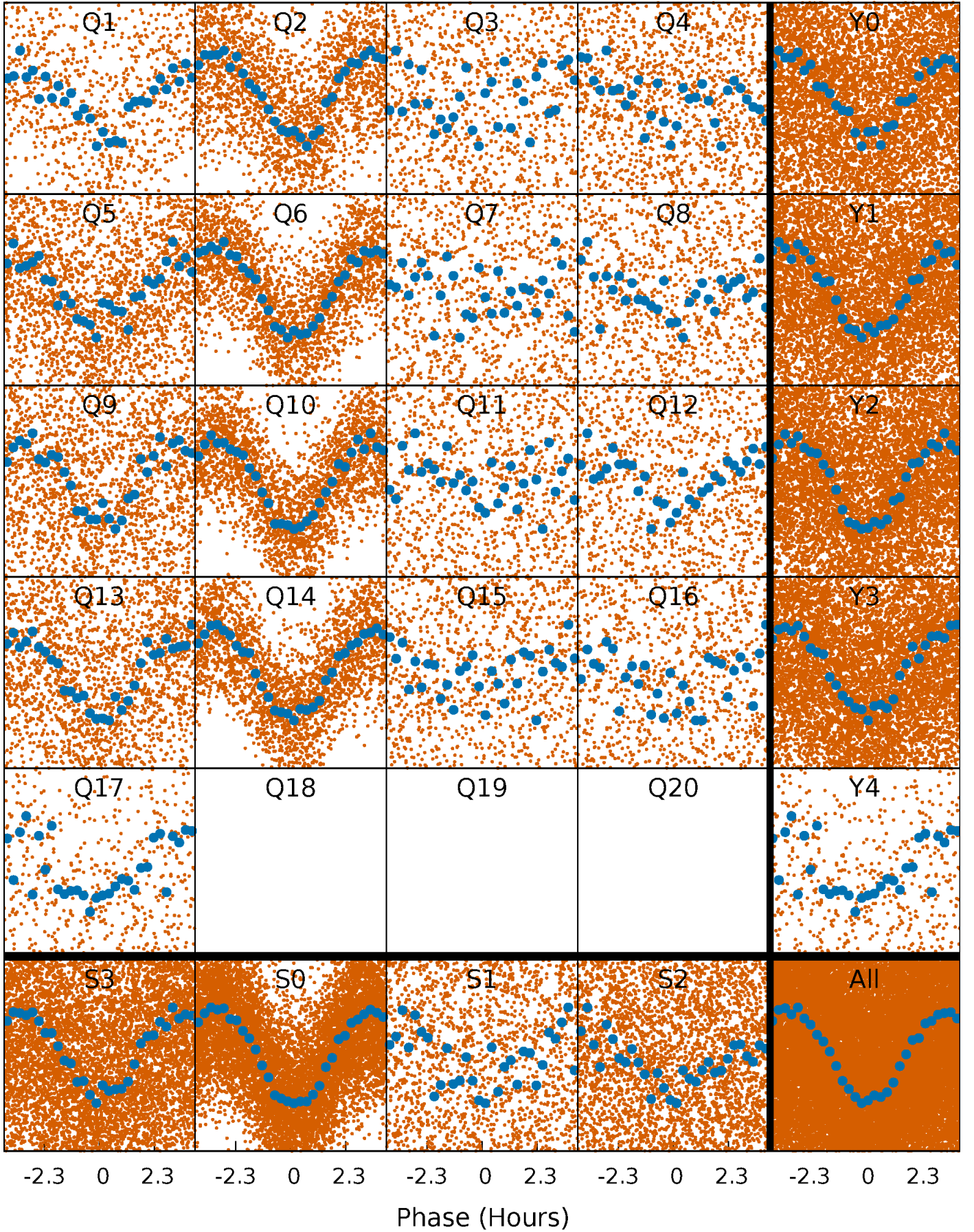


Non-Whitened Vs. Whitened Light Curve



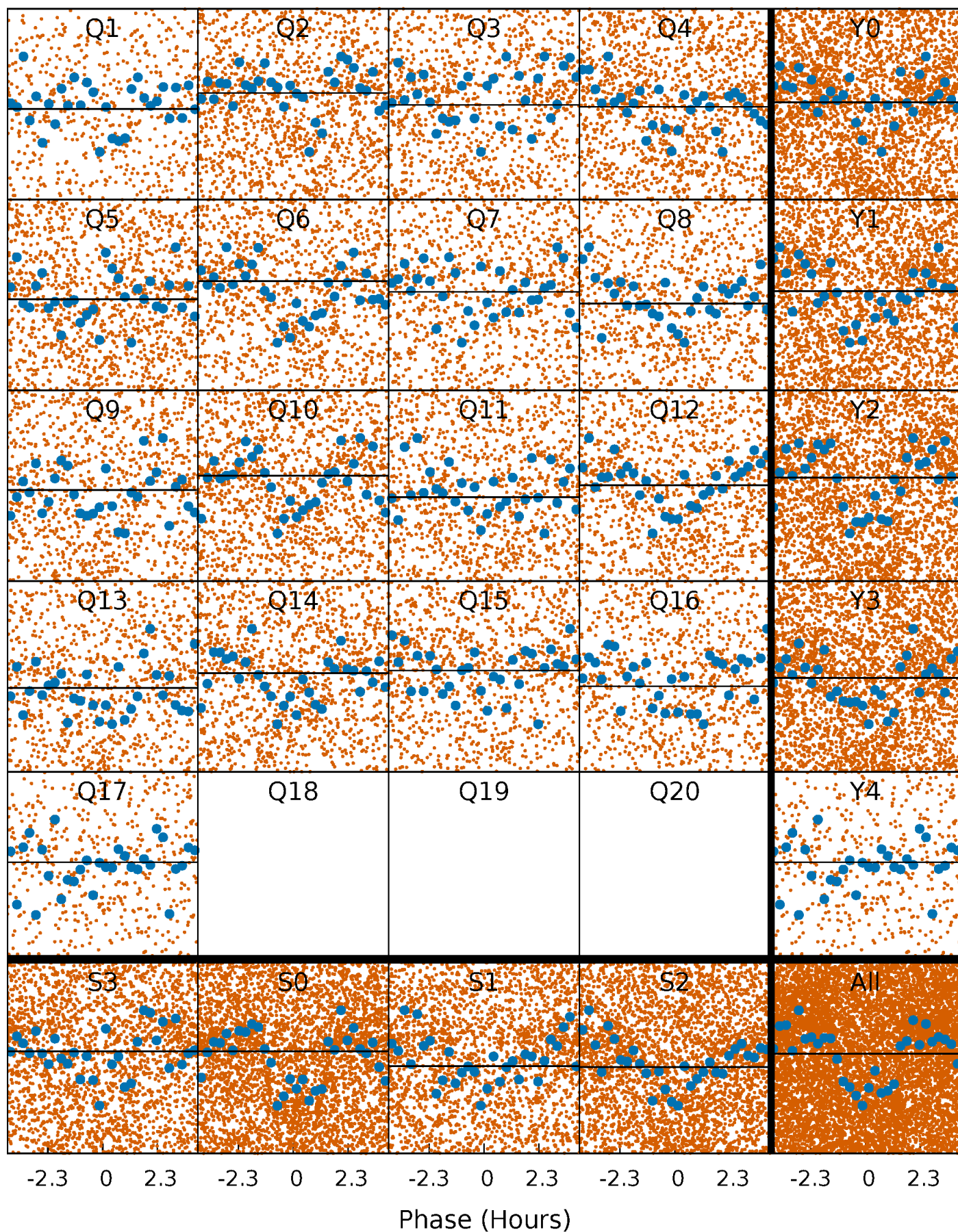
PDC Quarter-Phased Transit Curves

TCE 008145462-01 P= 0.565786 Days $T_0=132.066563$ (BKJD)



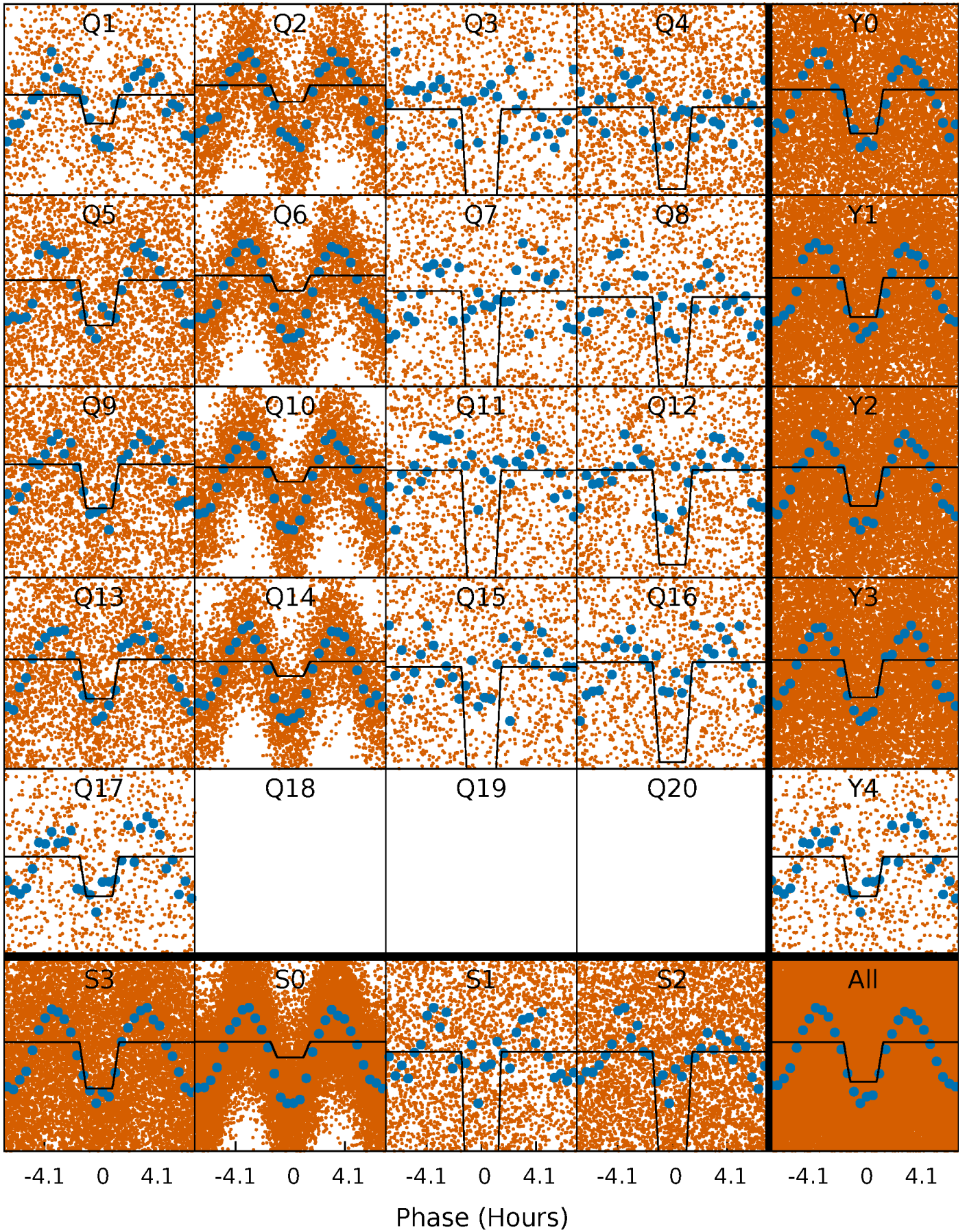
DV Quarter-Phased Transit Curves

TCE 008145462-01 P= 0.565786 Days $T_0=132.066563$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

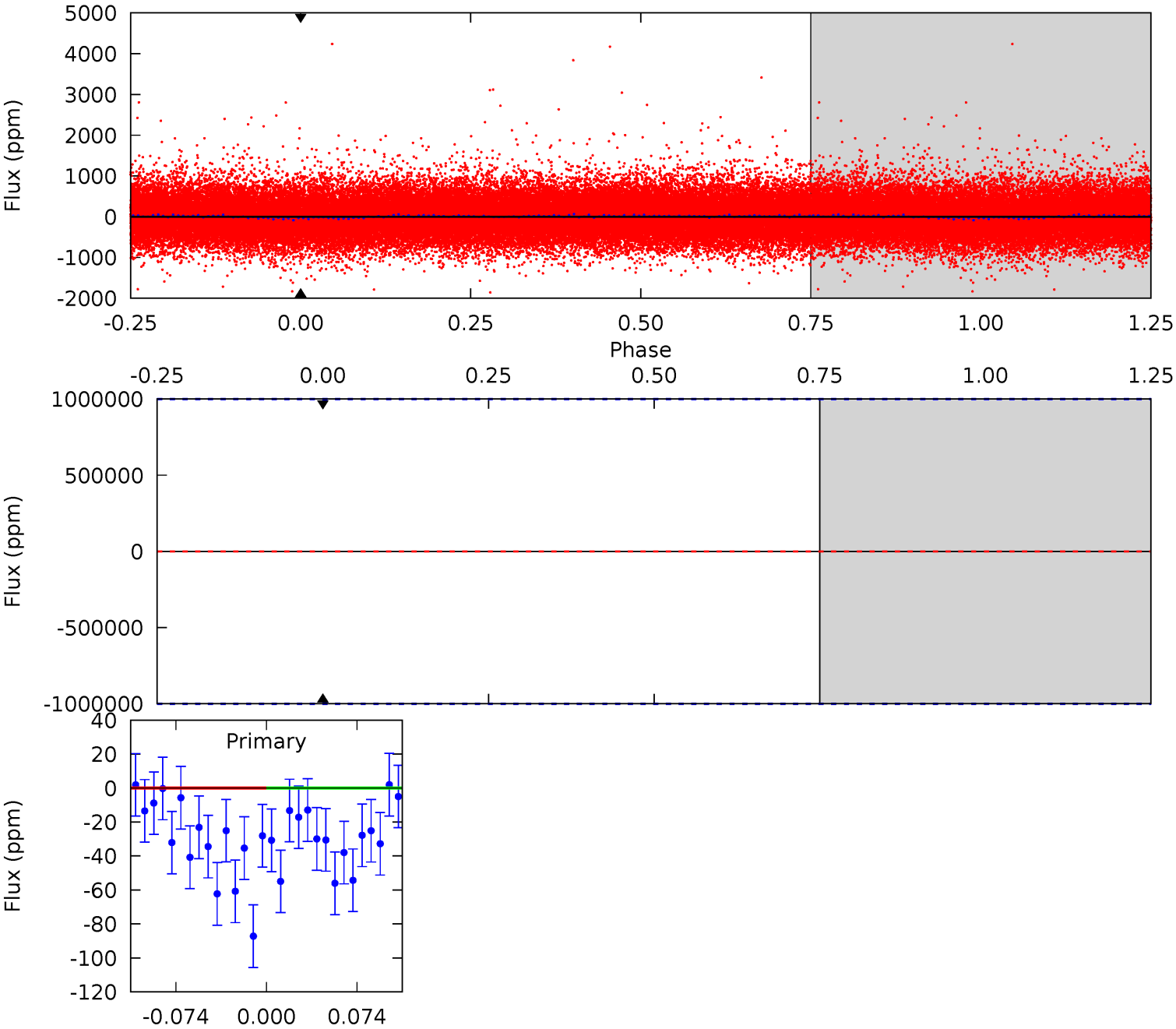
TCE 008145462-01 P= 0.565786 Days $T_0=131.506450$ (BKJD)



DV Model-Shift Uniqueness Test

008145462-01, P = 0.565786 Days, E = 131.500777 Days

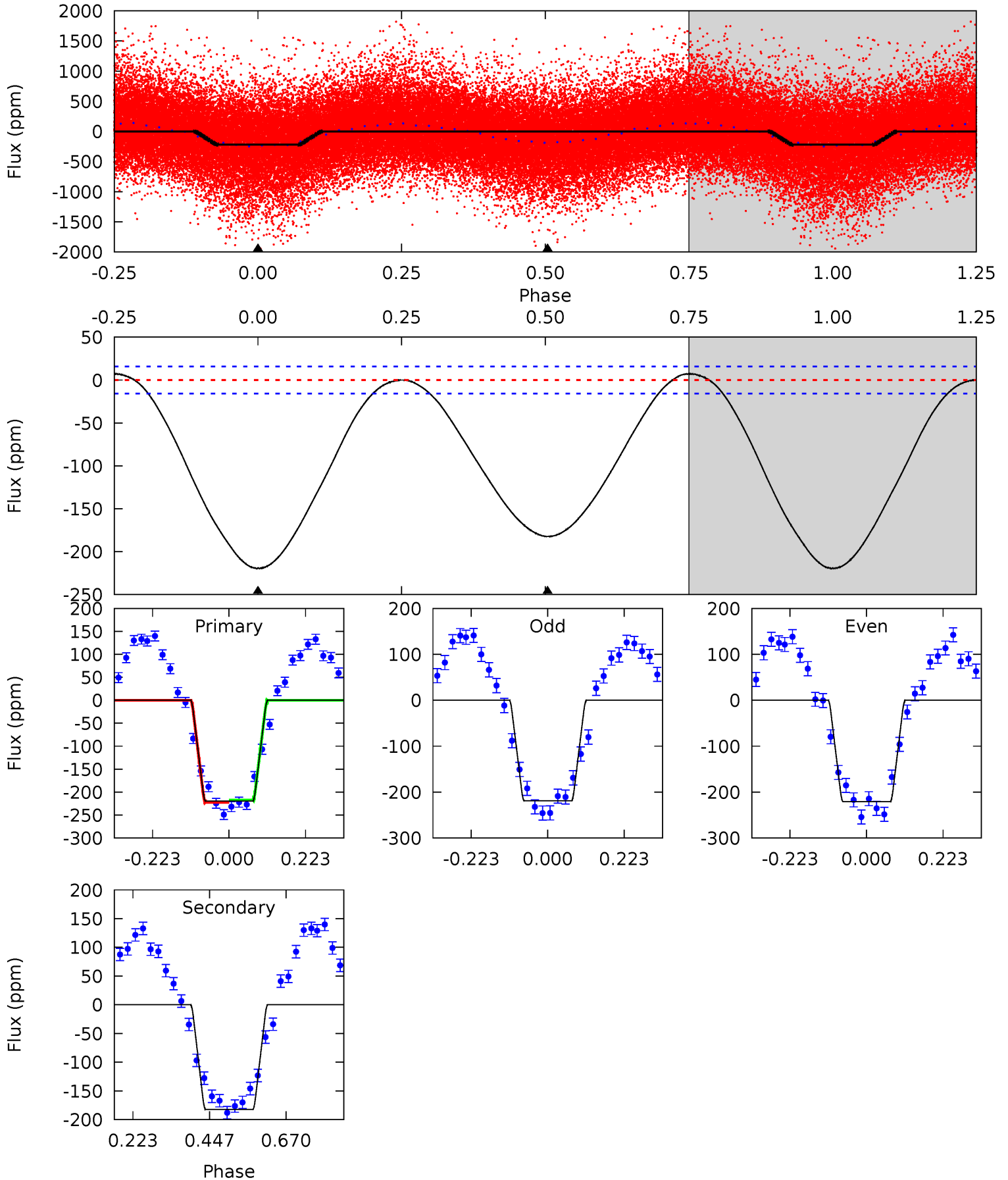
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008145462-01, P = 0.565786 Days, E = 131.506450 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
61.1	50.8	0	0	4.39	1.22	1.13	61.1	61.1	50.8	50.8	0.23	1.45	0.03	0.66



Stellar Parameters For KIC 008145462

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5855^{+158}_{-158}	$4.467^{+0.081}_{-0.189}$	$-0.300^{+0.300}_{-0.300}$	$0.915^{+0.255}_{-0.109}$	$0.896^{+0.119}_{-0.089}$	$1.647^{+0.579}_{-0.794}$
	+3%/-3%	+2%/-4%	+100%/-100%	+28%/-12%	+13%/-10%	+35%/-48%
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 008145462-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$7.69^{+9.11}_{-5.30}$	3084^{+206}_{-144}	-5056^{+26428}_{-17158}	$-4.115^{+284.841}_{-305.267}$
Alt.	-182 ± 4	$7.79^{+7.56}_{-5.44}$	3085^{+209}_{-148}	-2305^{+6882}_{-736}	$0.275^{+2.856}_{-0.205}$

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 $A_{obs} \gg 1.0$

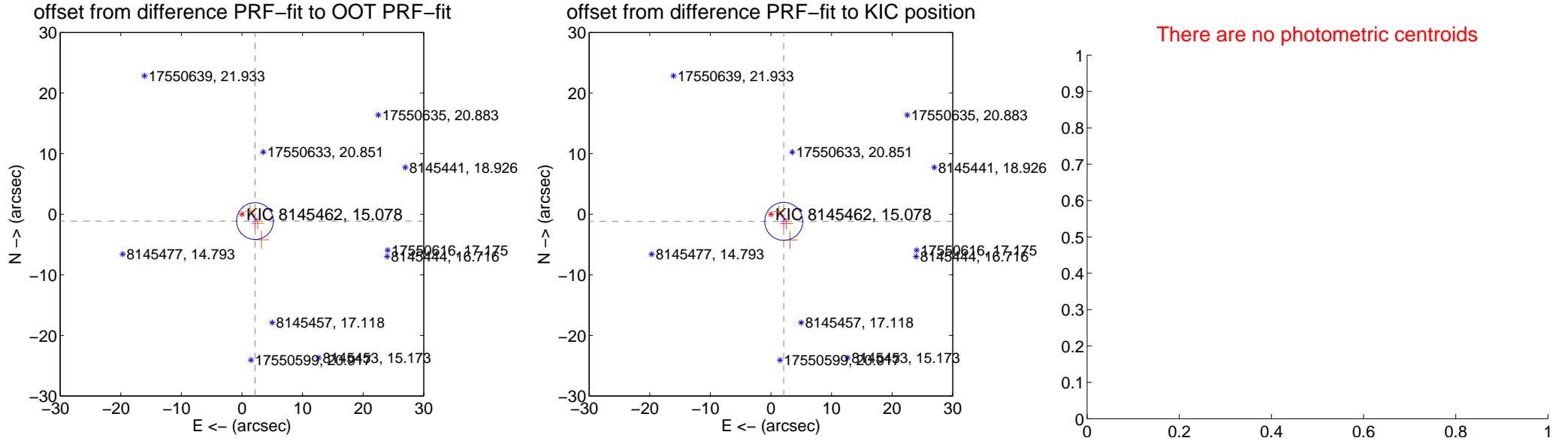
DV Centroid Data

Supplemental centroid analysis for 008145462-01. Kepler magnitude: 15.08. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

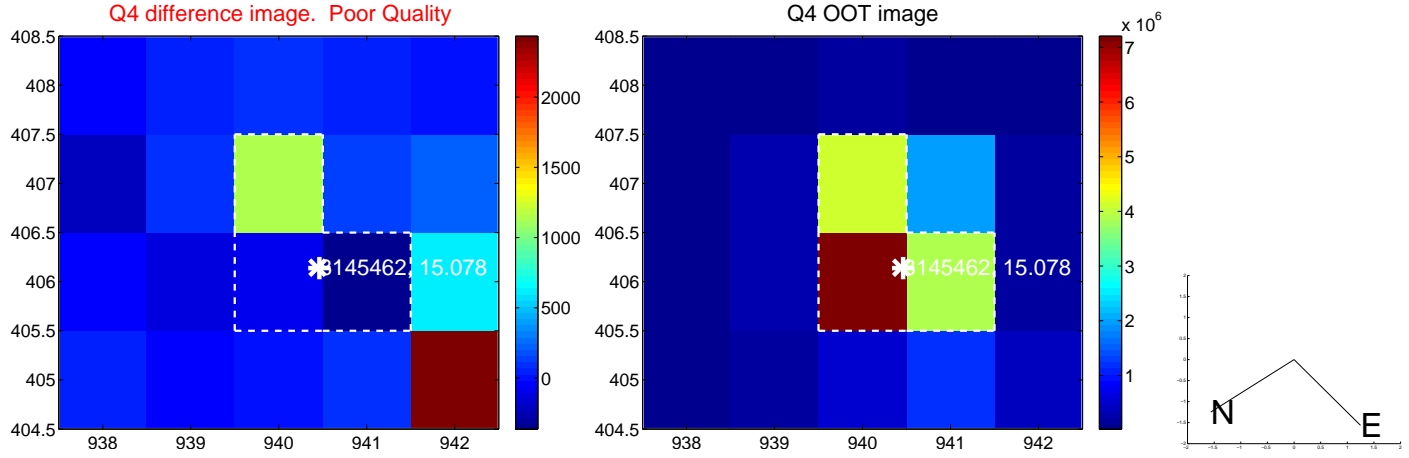
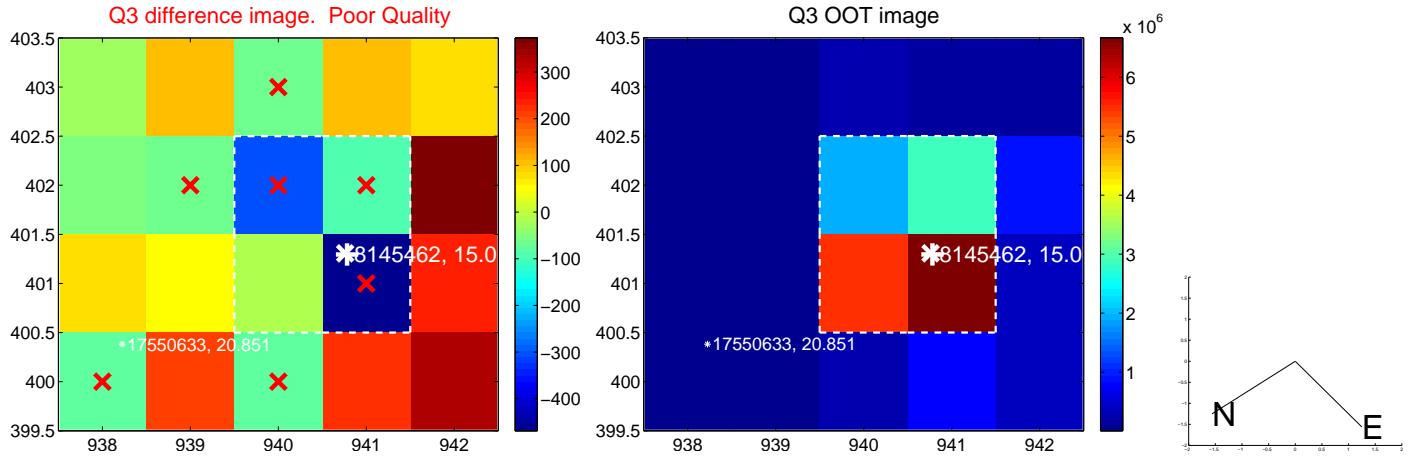
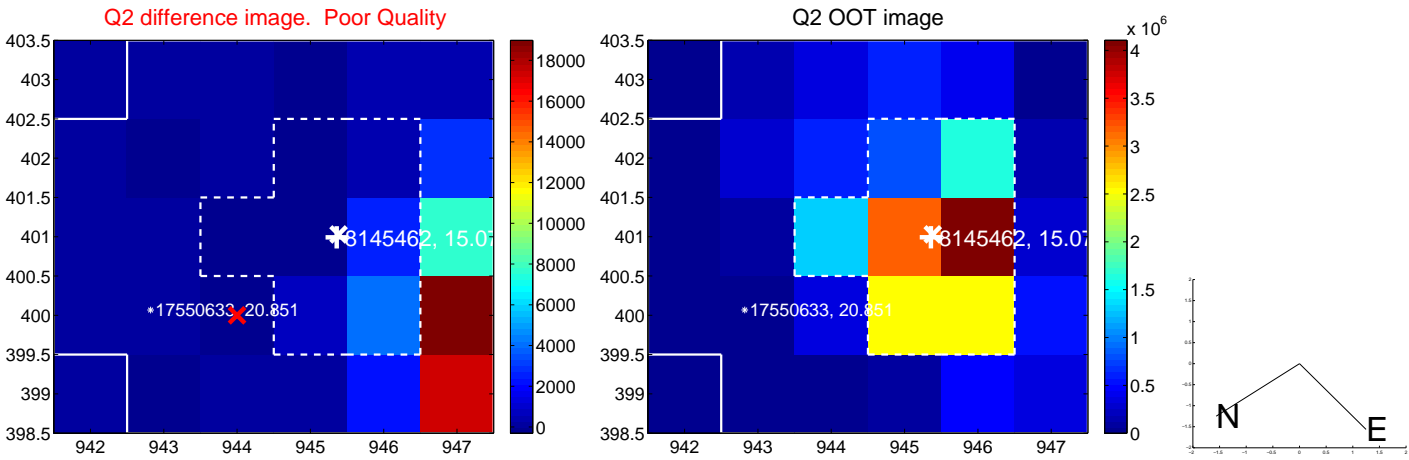
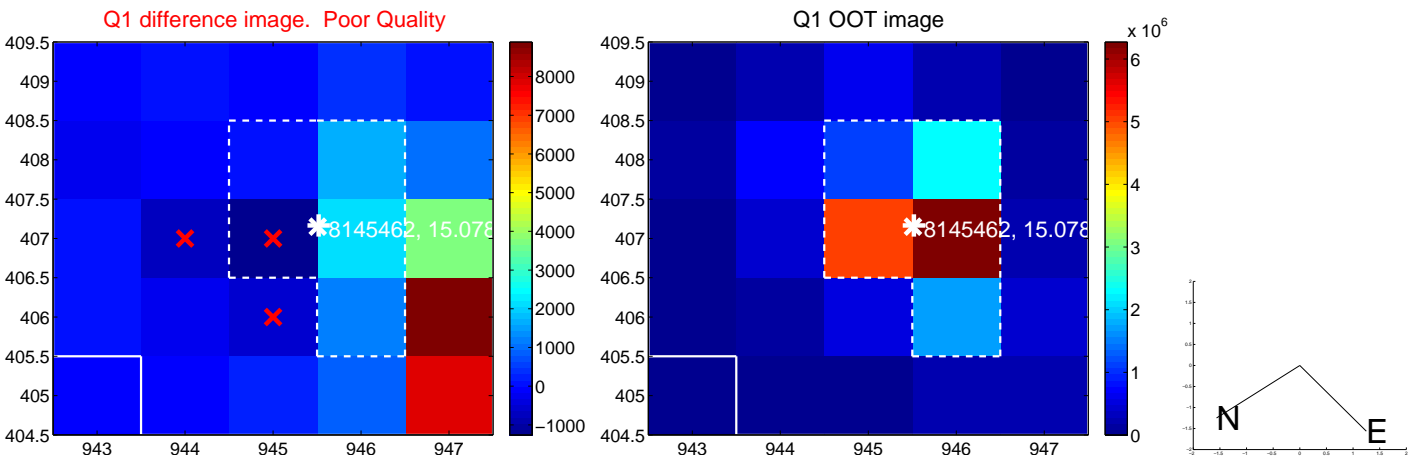
The direct PRF centroid is offset from the target star catalog position by about 0.07 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.429 ± 1.012	2.40	-2.153 ± 0.481	-1.124 ± 1.287
PRF-fit source offset from KIC position	2.421 ± 1.044	2.32	-2.113 ± 0.542	-1.182 ± 1.193
photometric centroid source offset	—	—	—	—

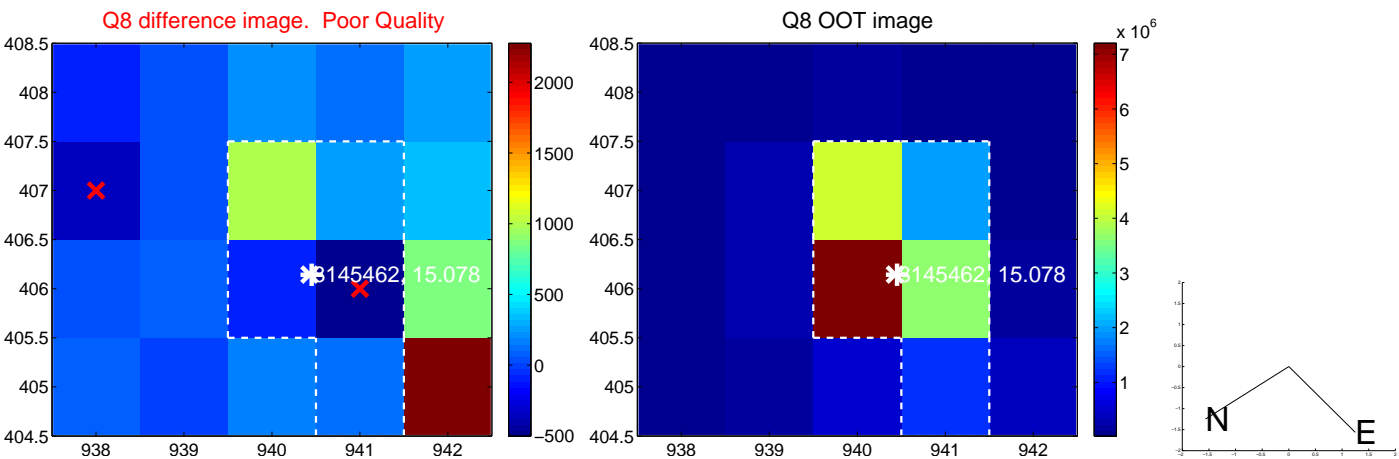
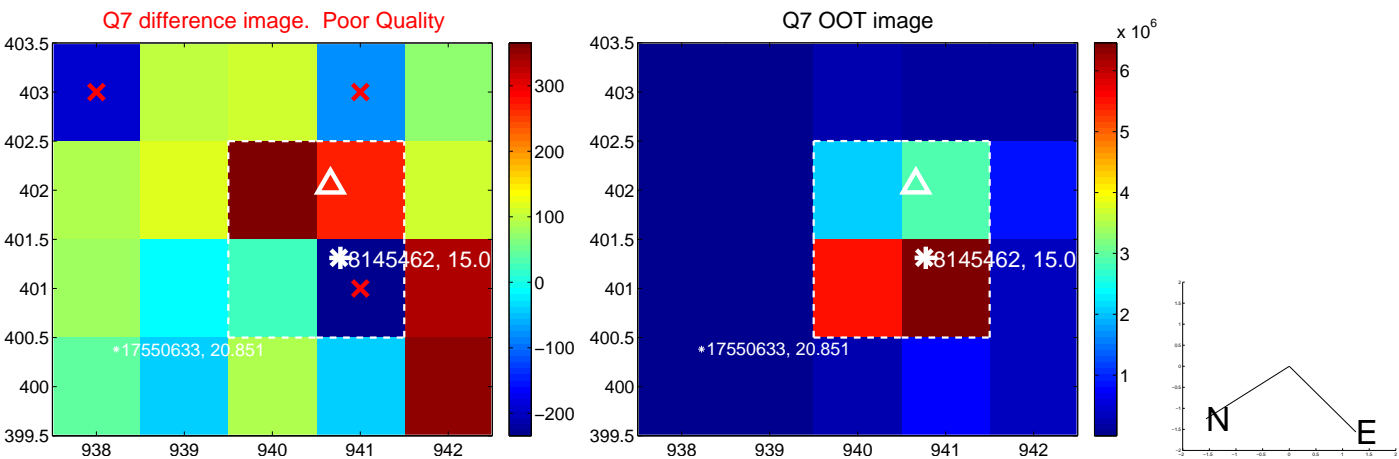
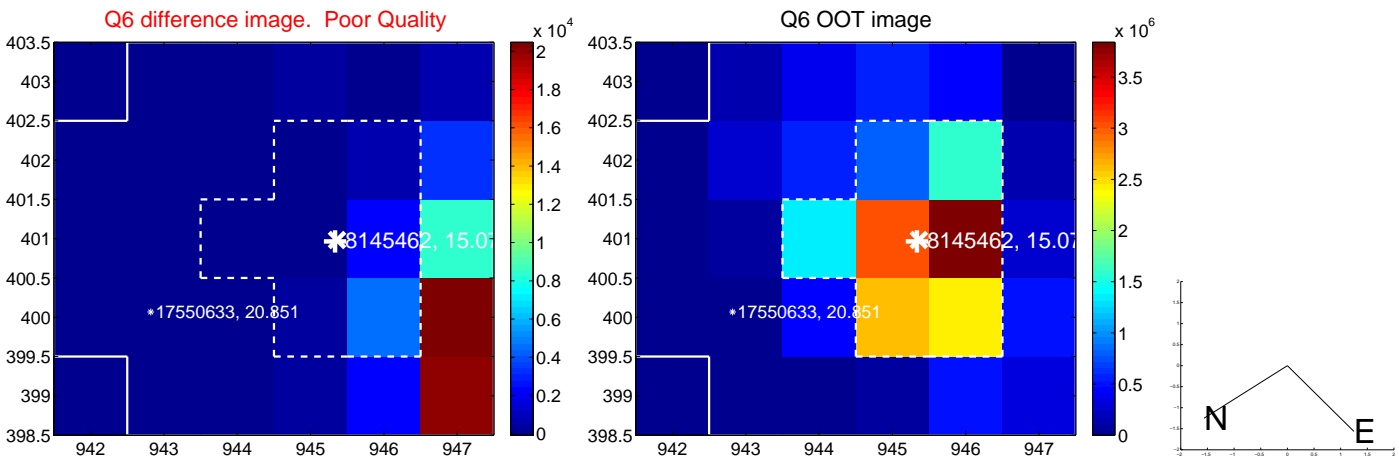
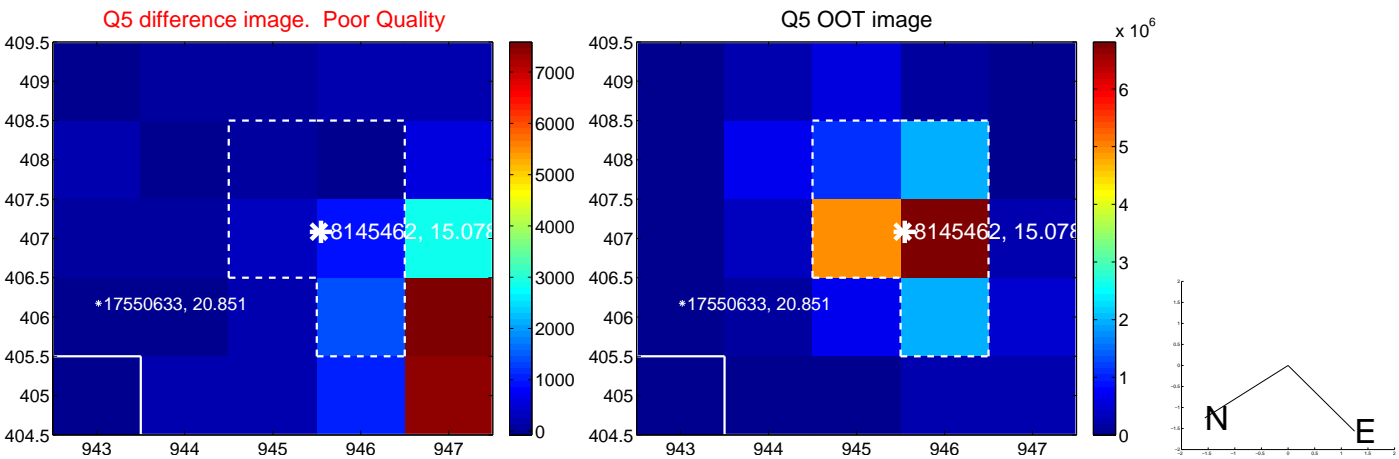


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

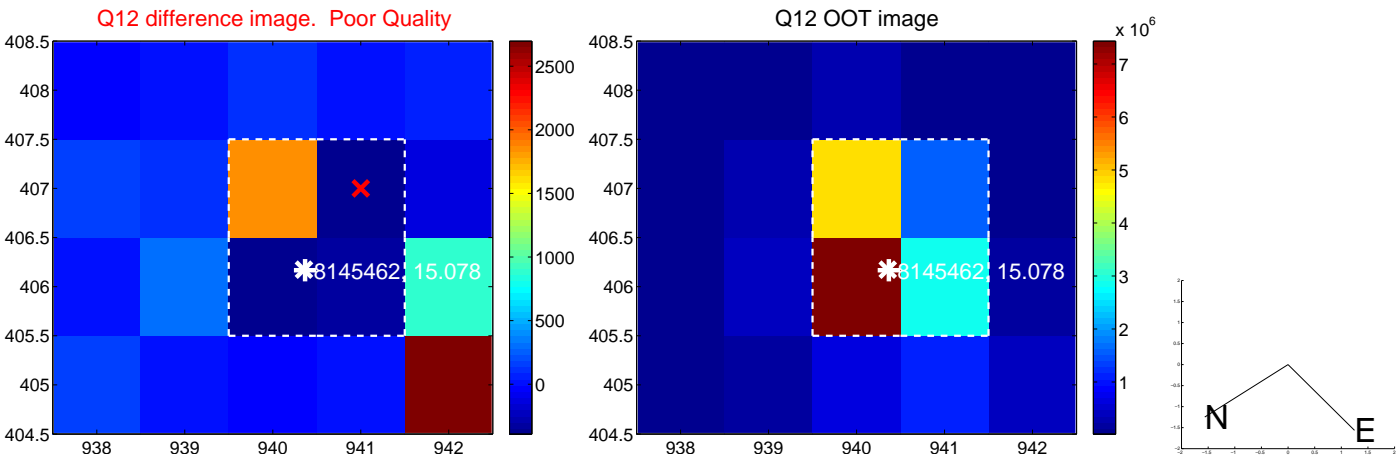
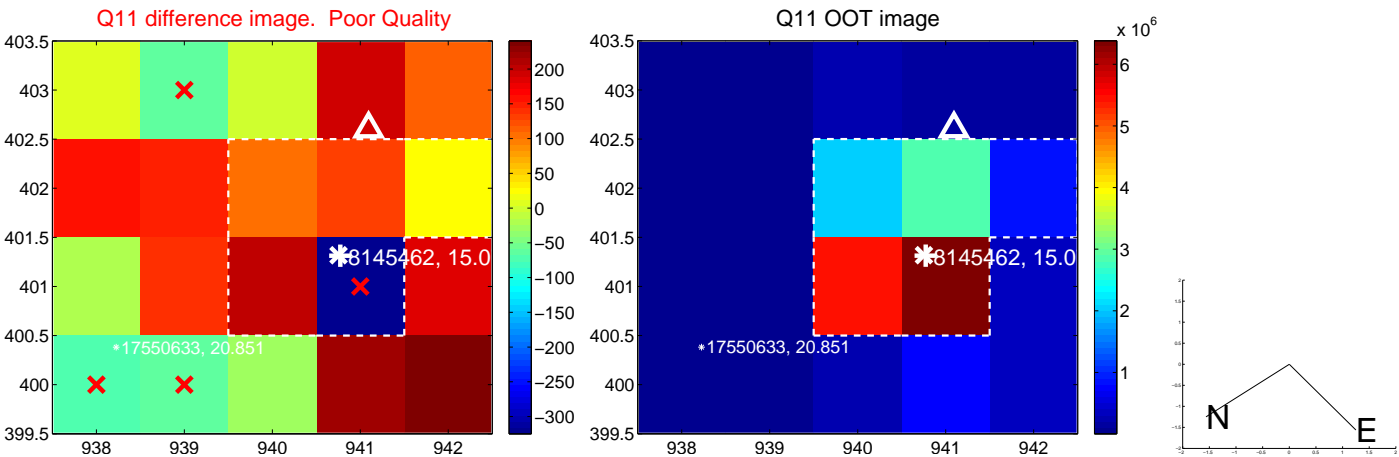
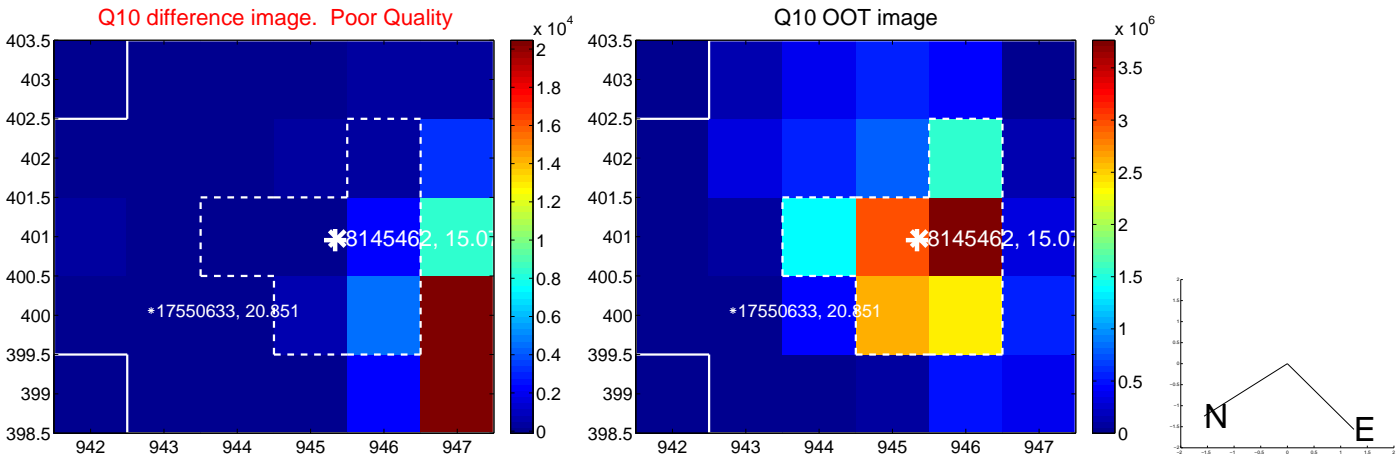
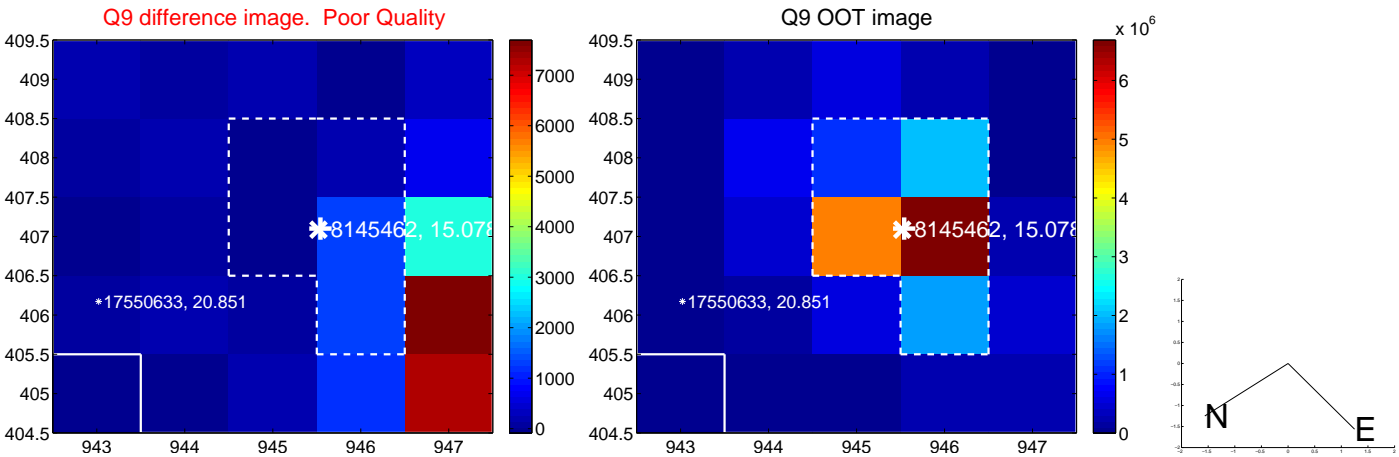
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



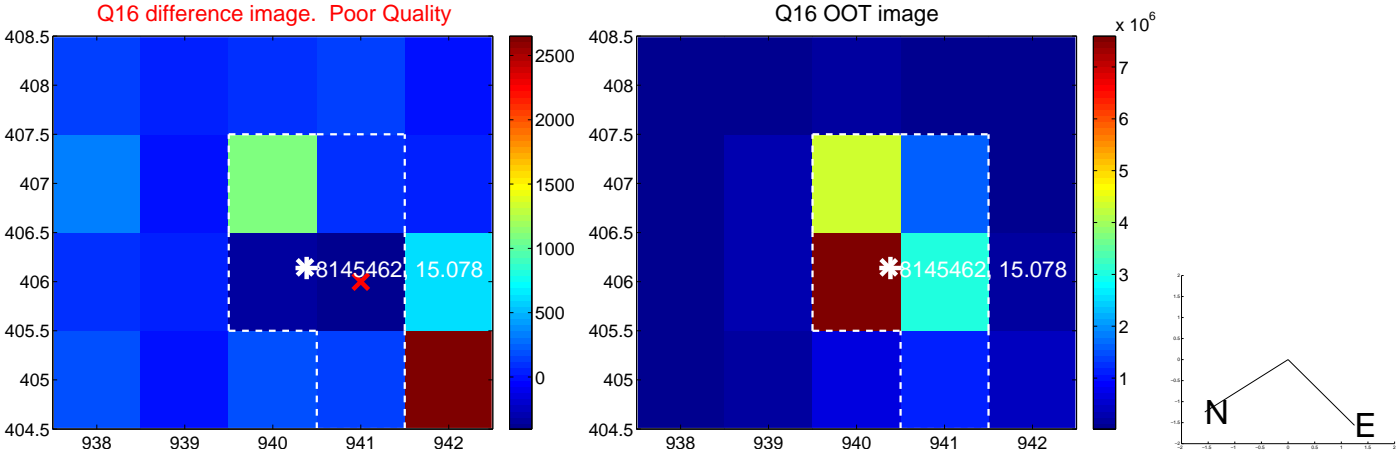
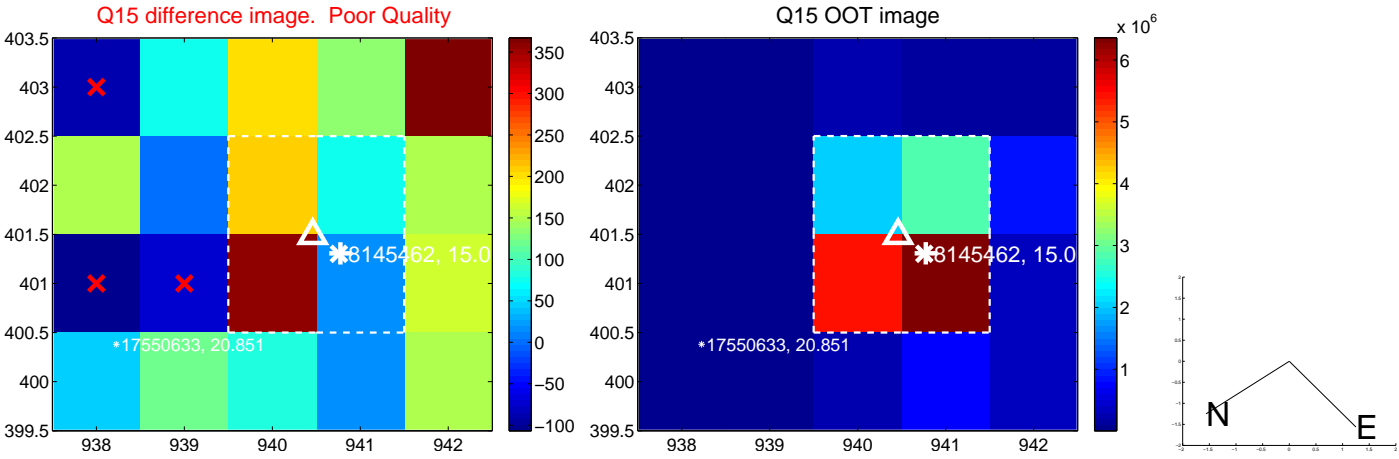
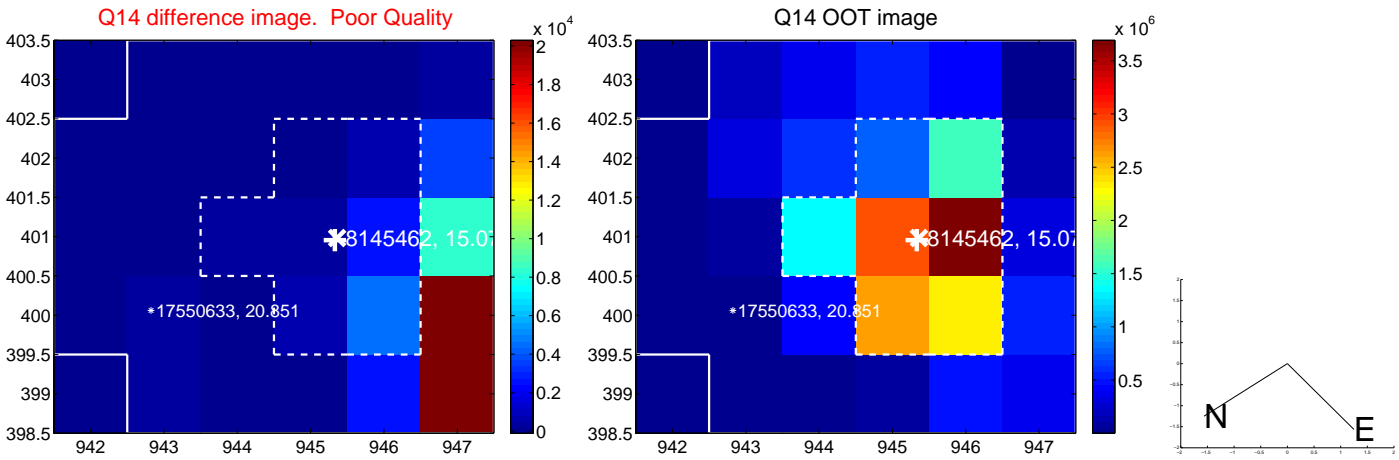
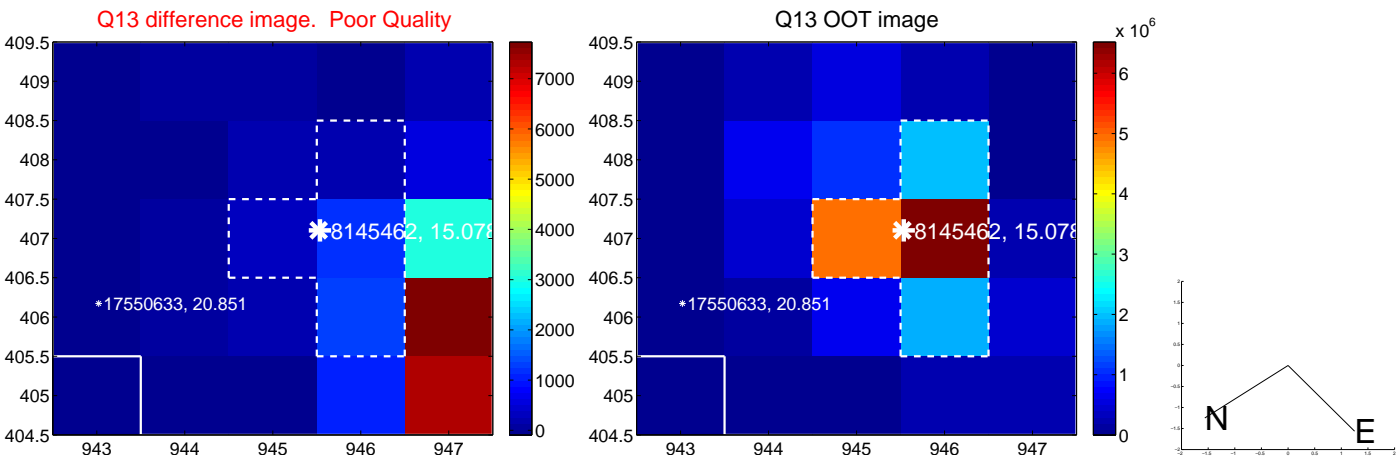
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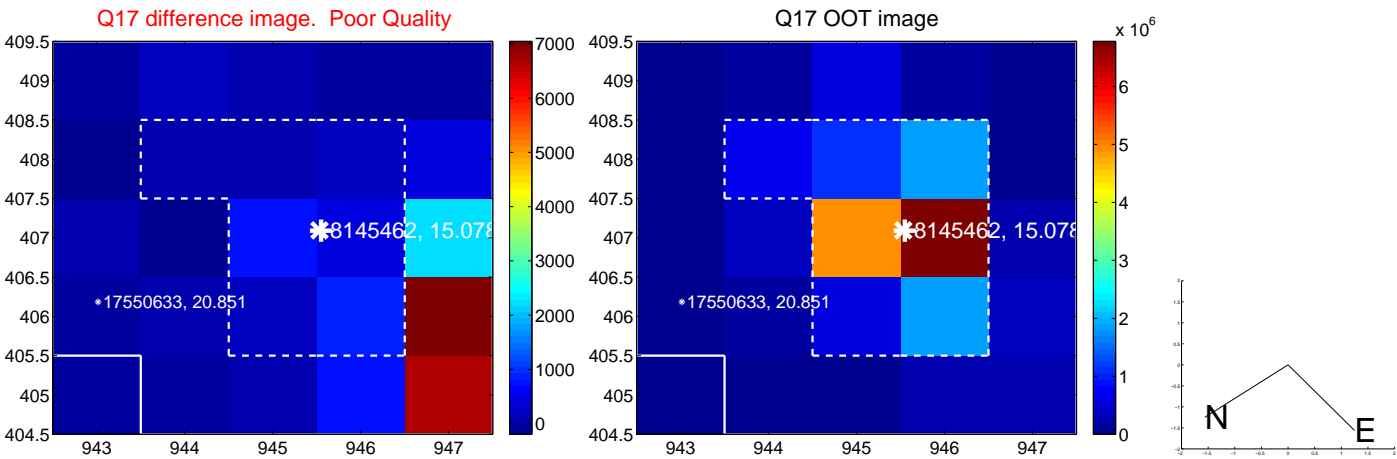
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folded centroid time series figure for this object.

UKIRT Image

Declination

