

KIC 011204769

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})
011204769-01	OBS	No	202.735828	261.912928	913.3	2.996	8.0	8.0	1.01	6050	5.92	2.75

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011204769-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

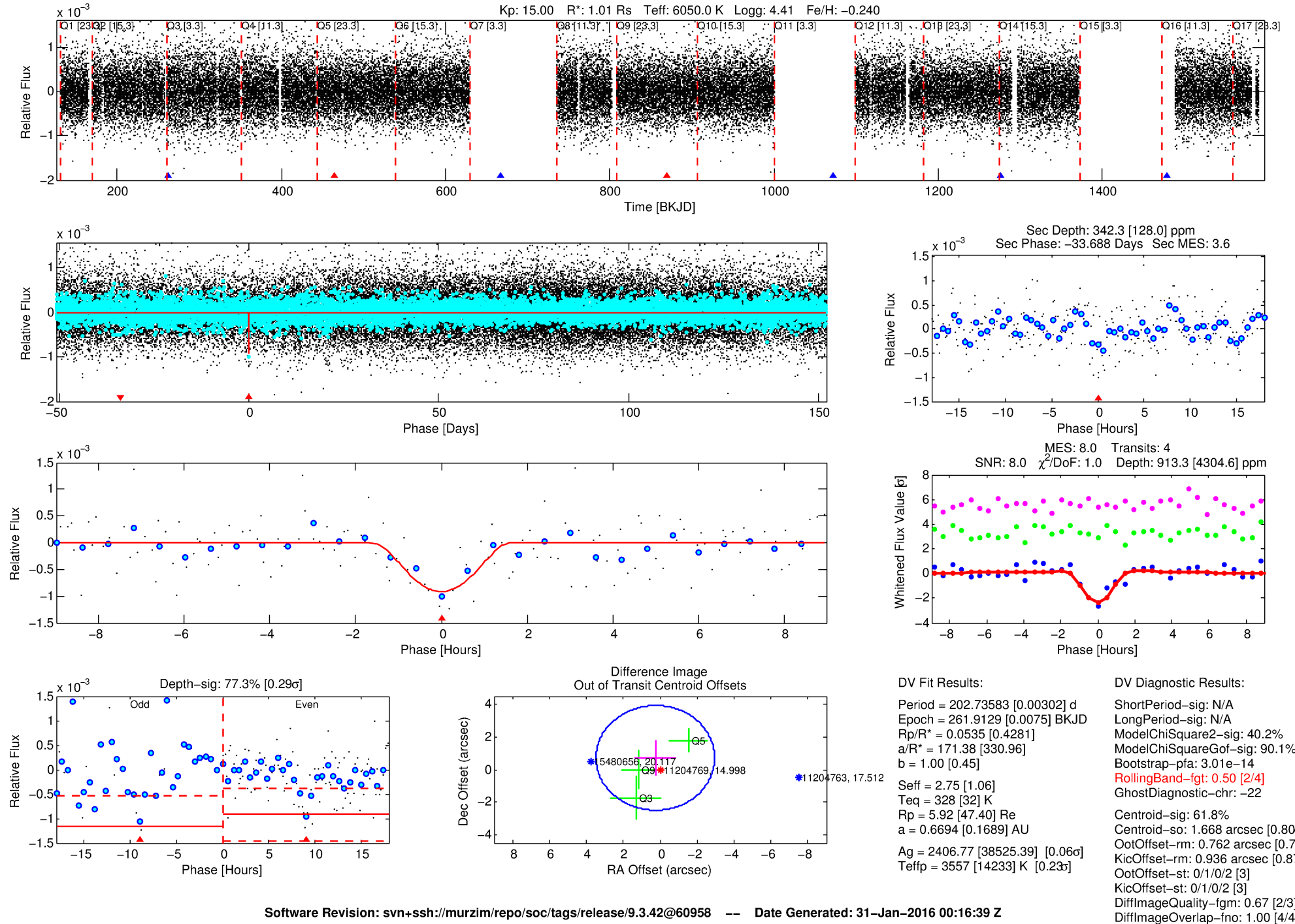
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011204769-01

No Significant Match Found

DV One-Page Summary

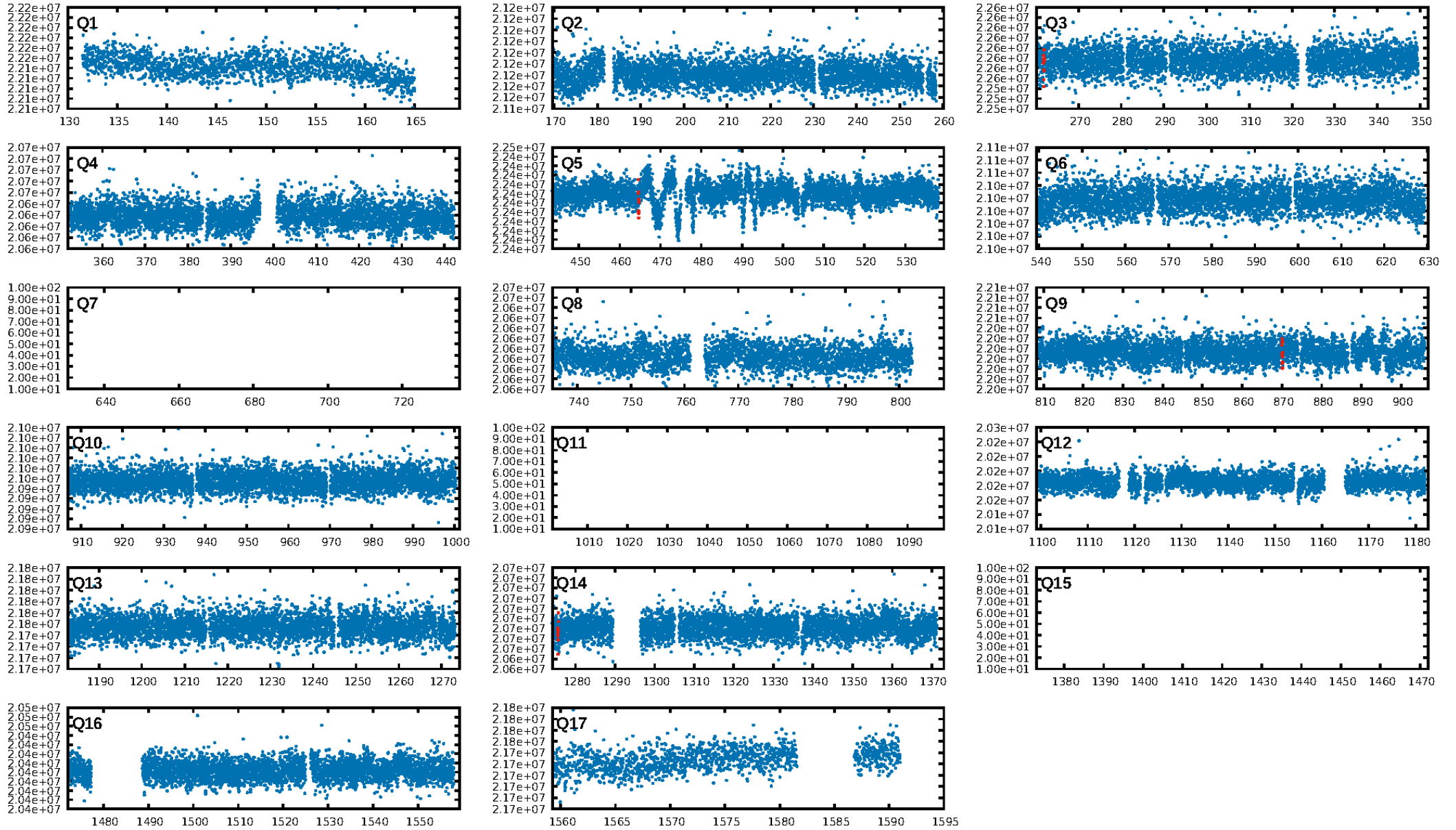
KIC: 11204769 Candidate: 1 of 1 Period: 202.736 d



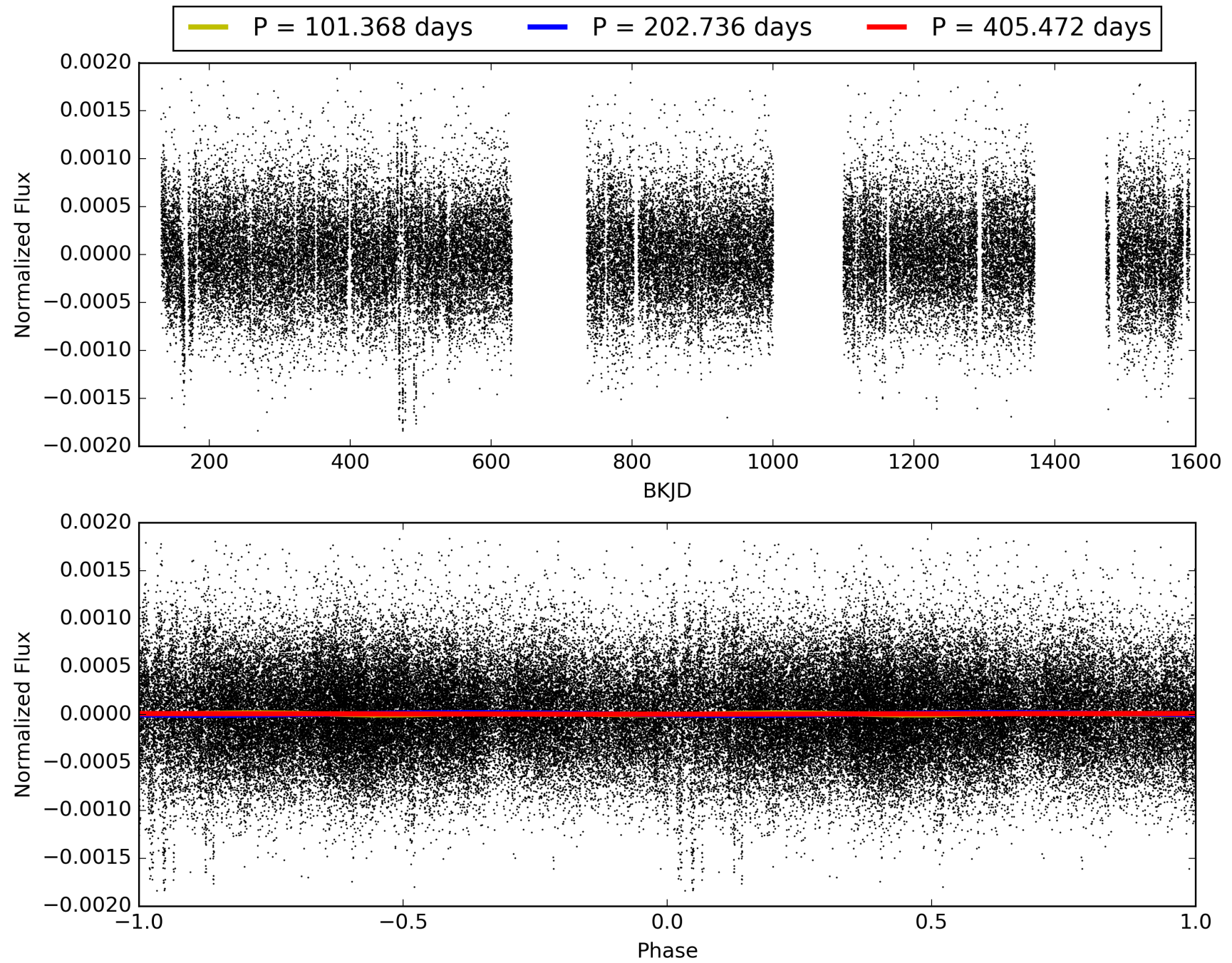
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 00:16:39 Z

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

TCE 011204769-01, PDC Light Curves

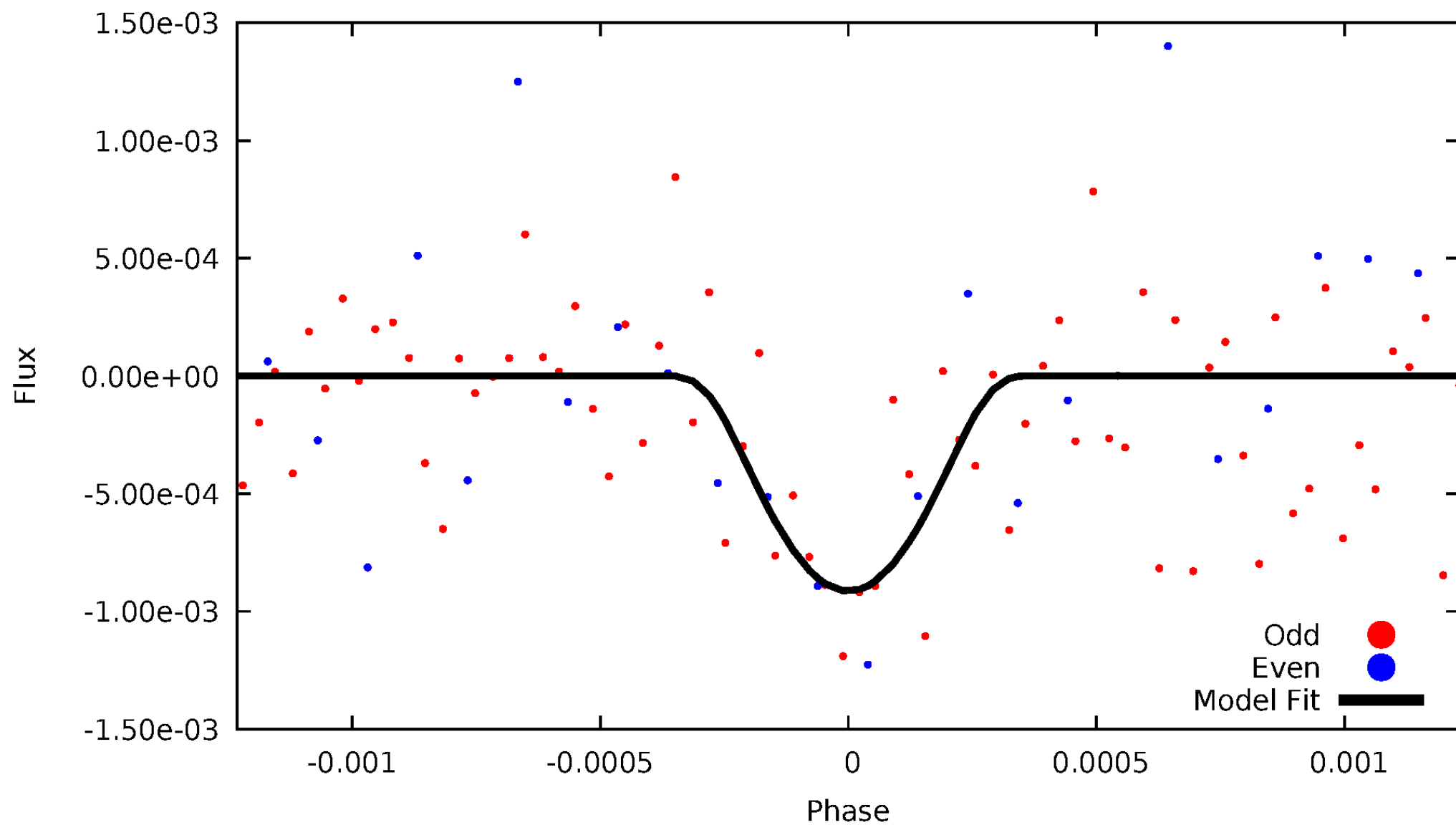


TCE 011204769-01



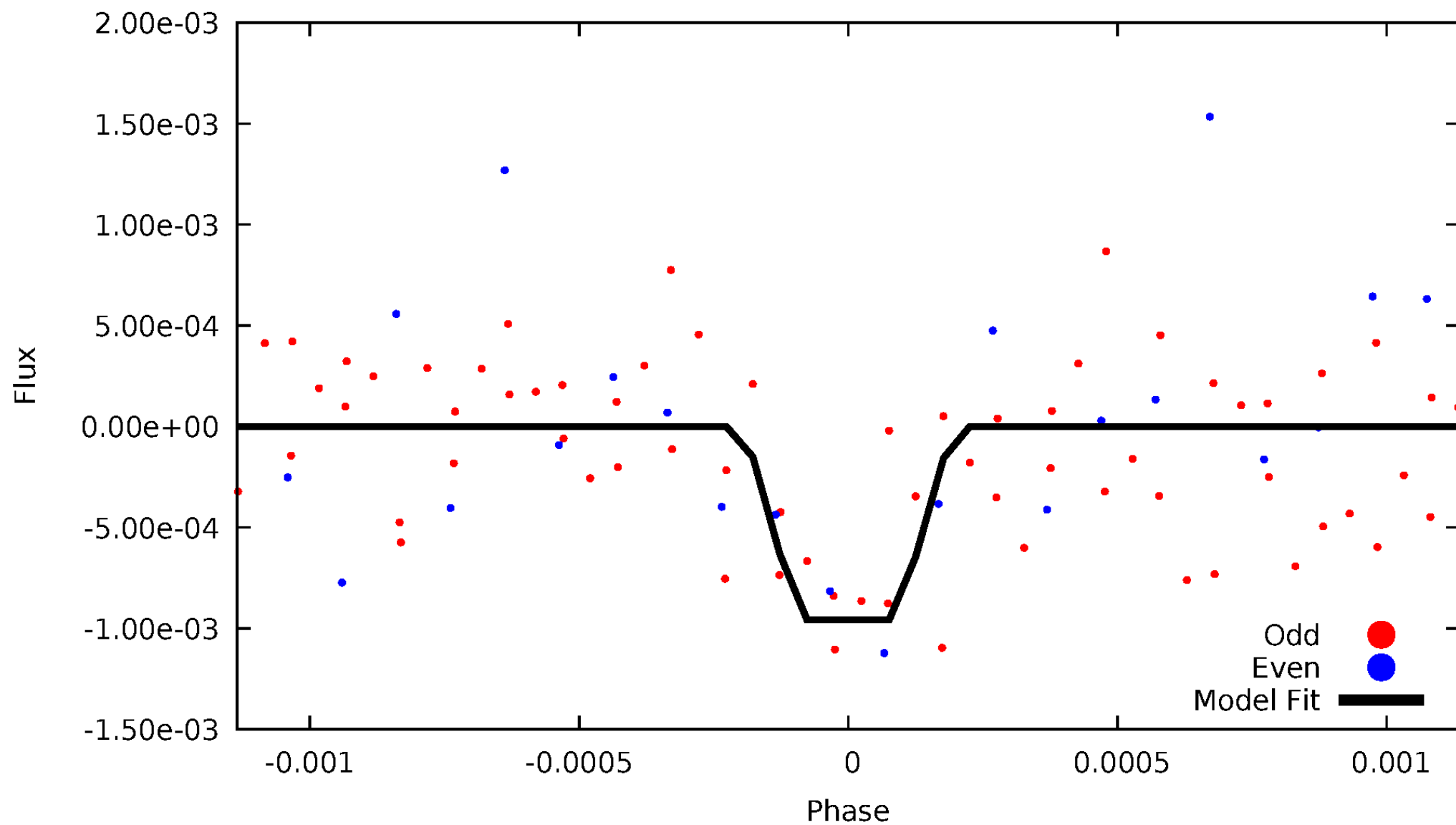
DV Odd/Even

TCE 011204769-01

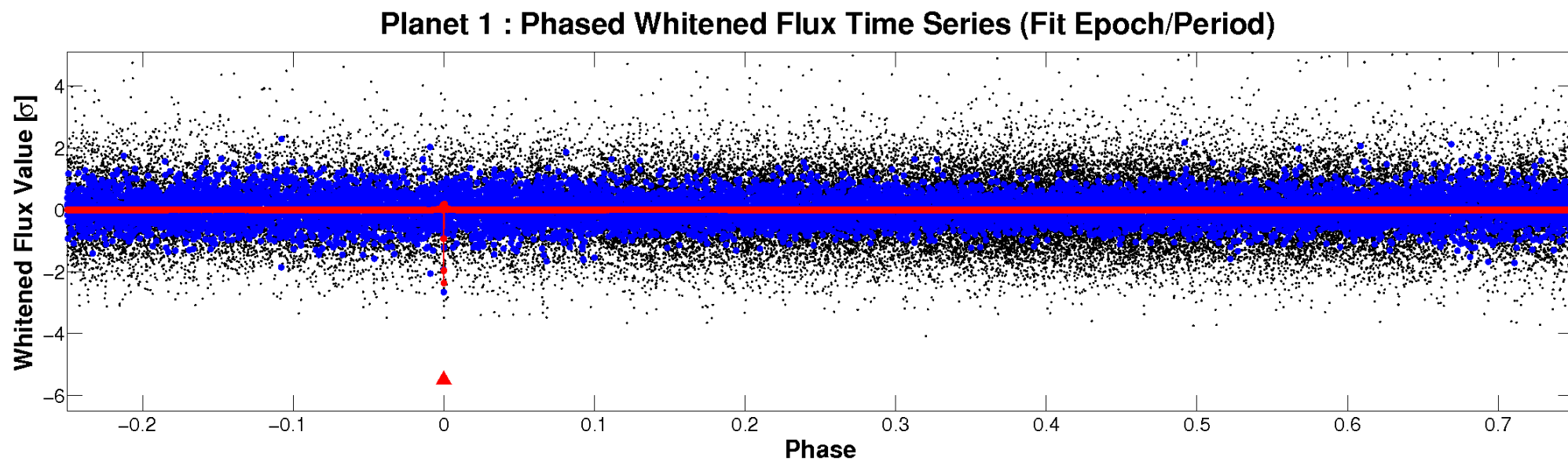
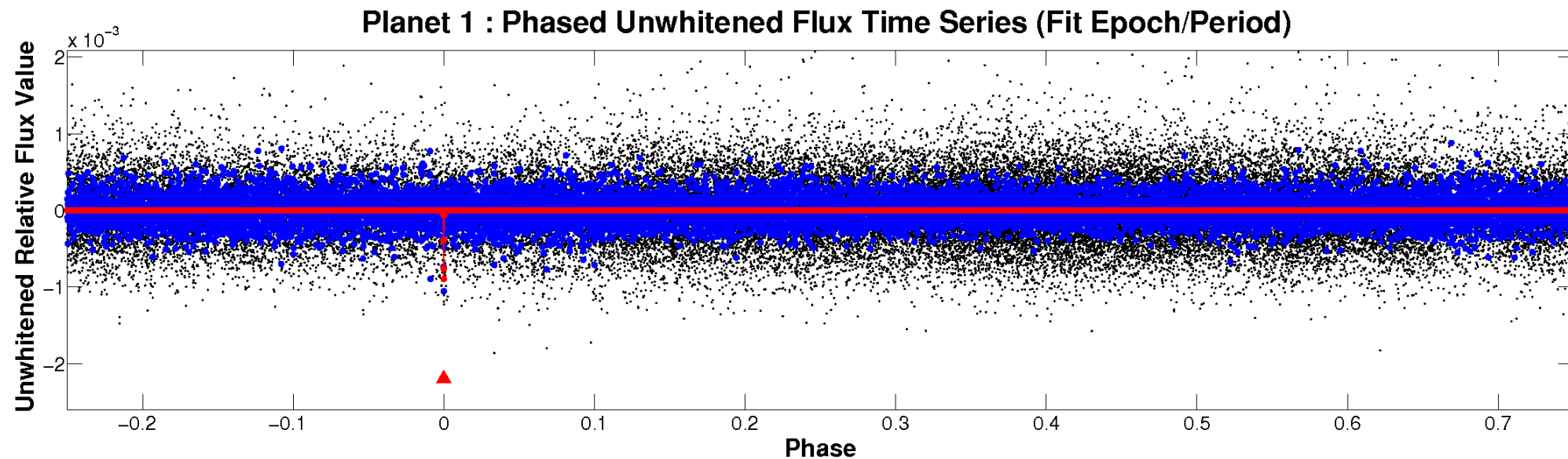


ALT Odd/Even

TCE 011204769-01

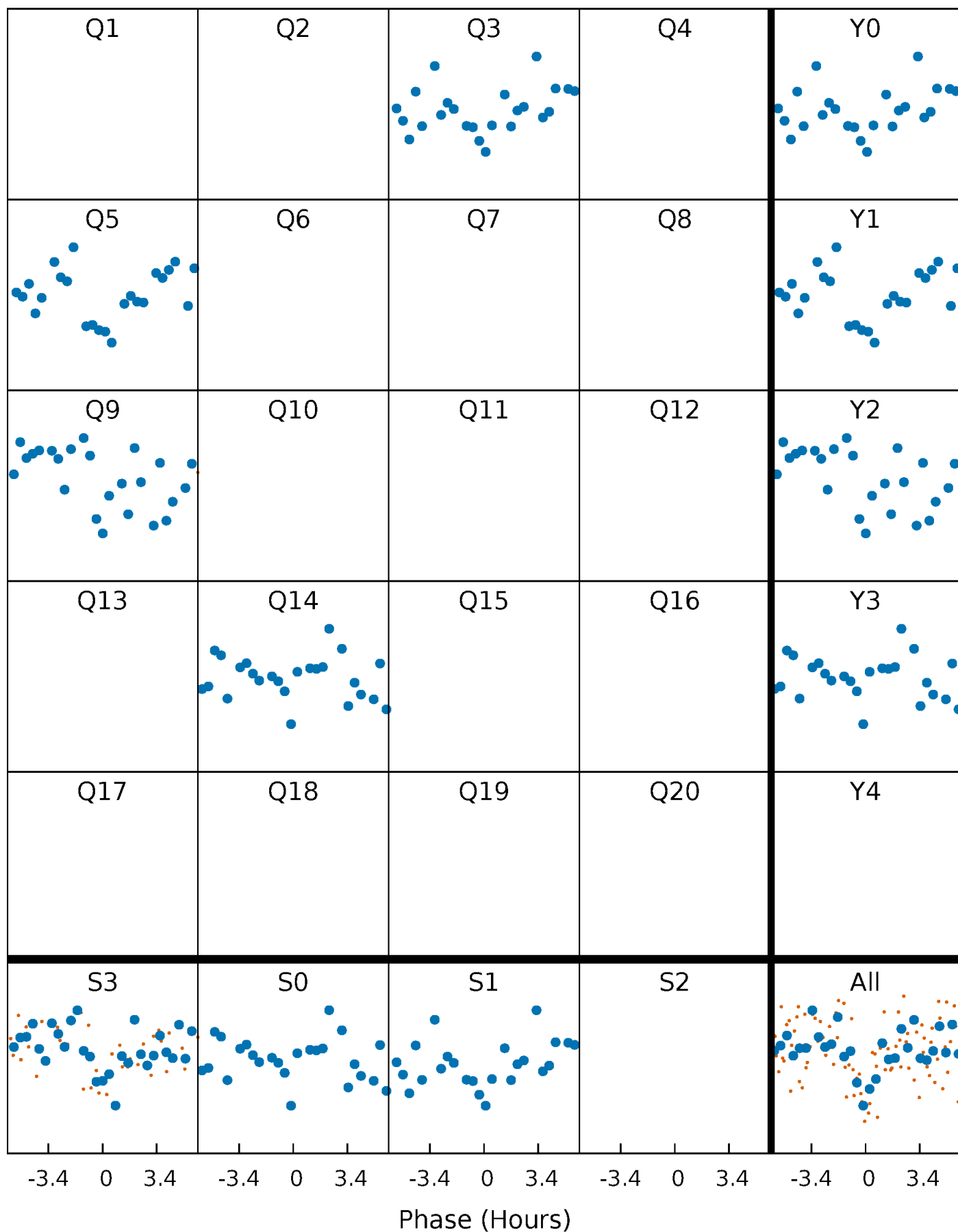


Non-Whitened Vs. Whitened Light Curve



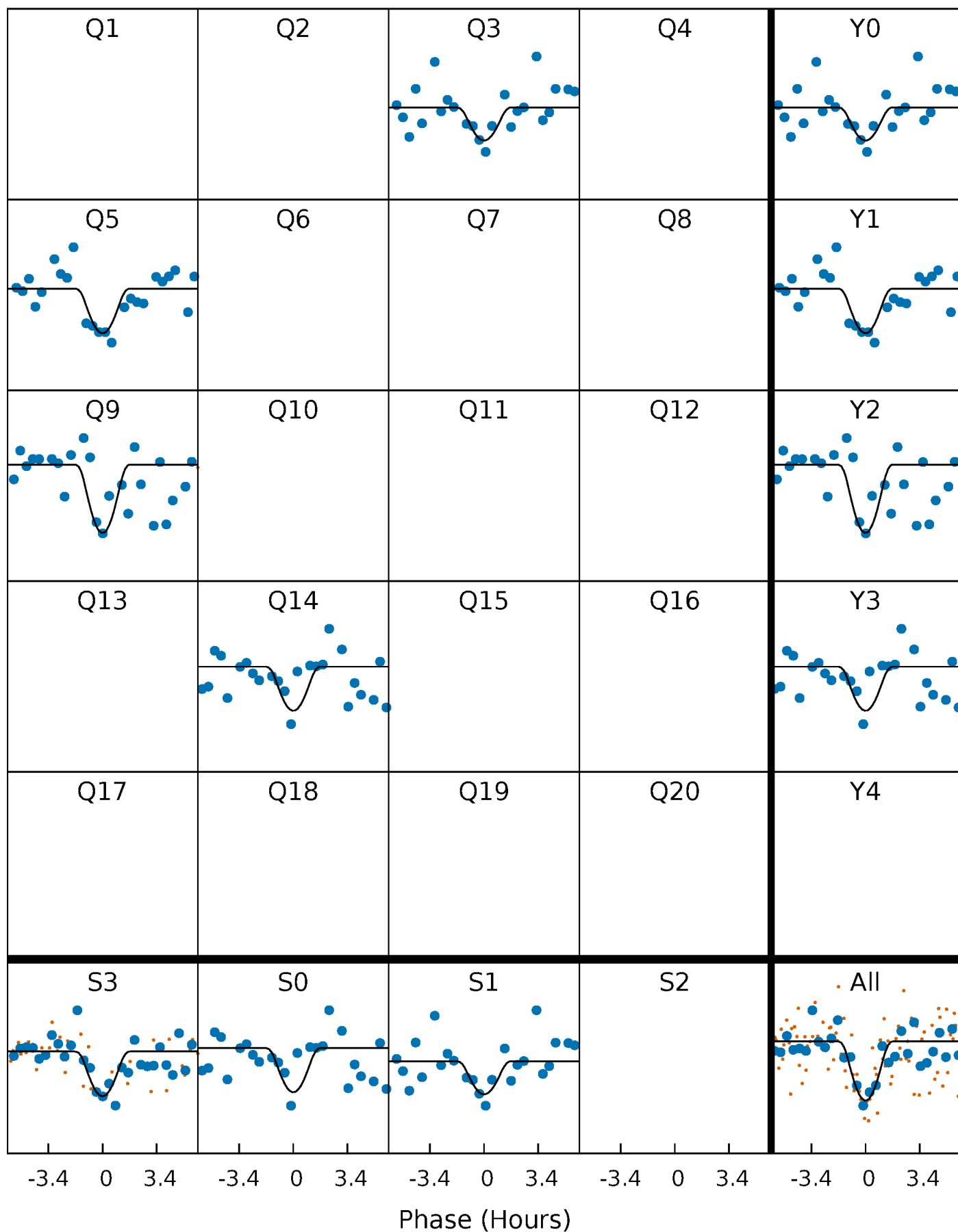
PDC Quarter-Phased Transit Curves

TCE 011204769-01 P=202.735828 Days $T_0=261.912928$ (BKJD)



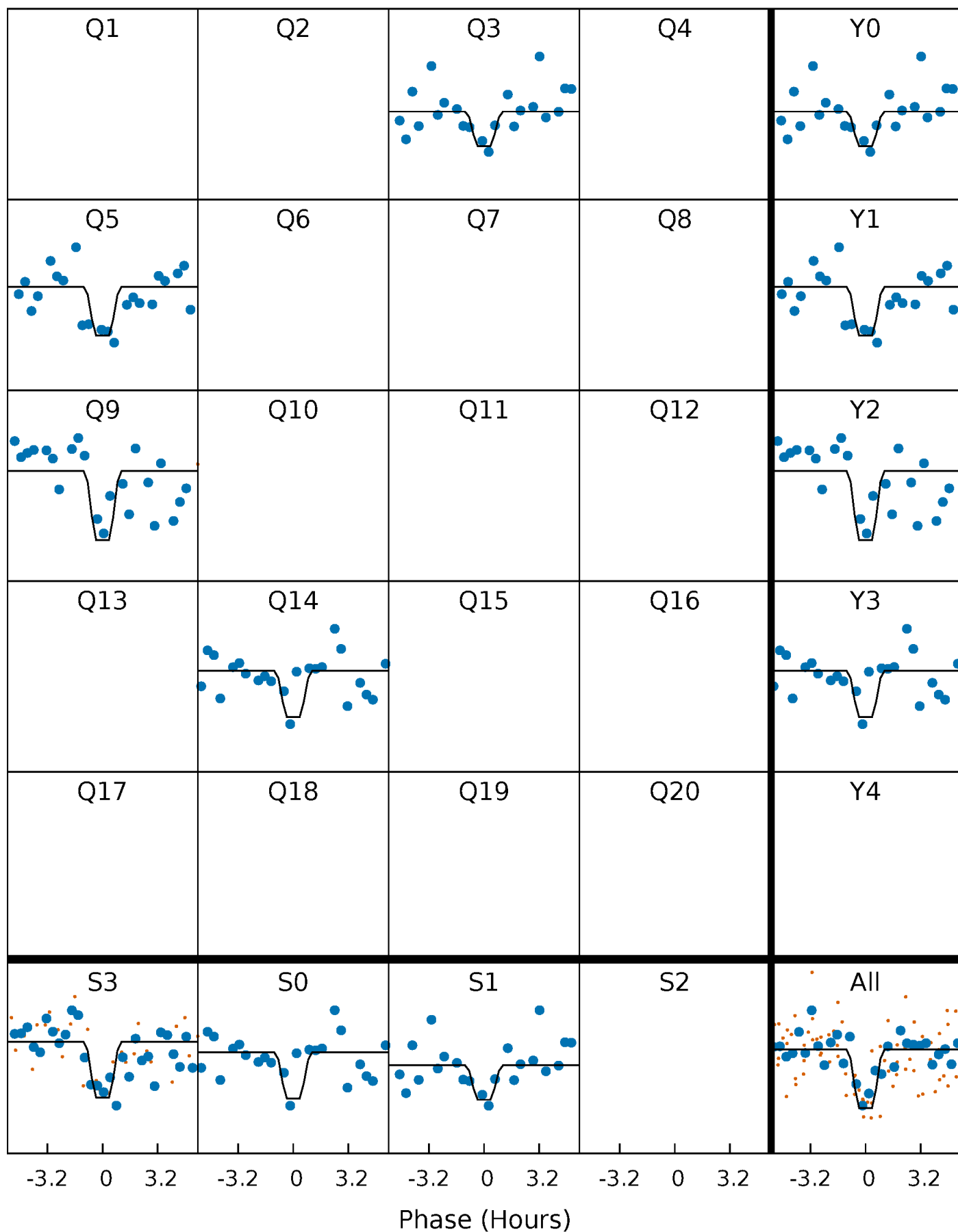
DV Quarter-Phased Transit Curves

TCE 011204769-01 P=202.735828 Days $T_0=261.912928$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

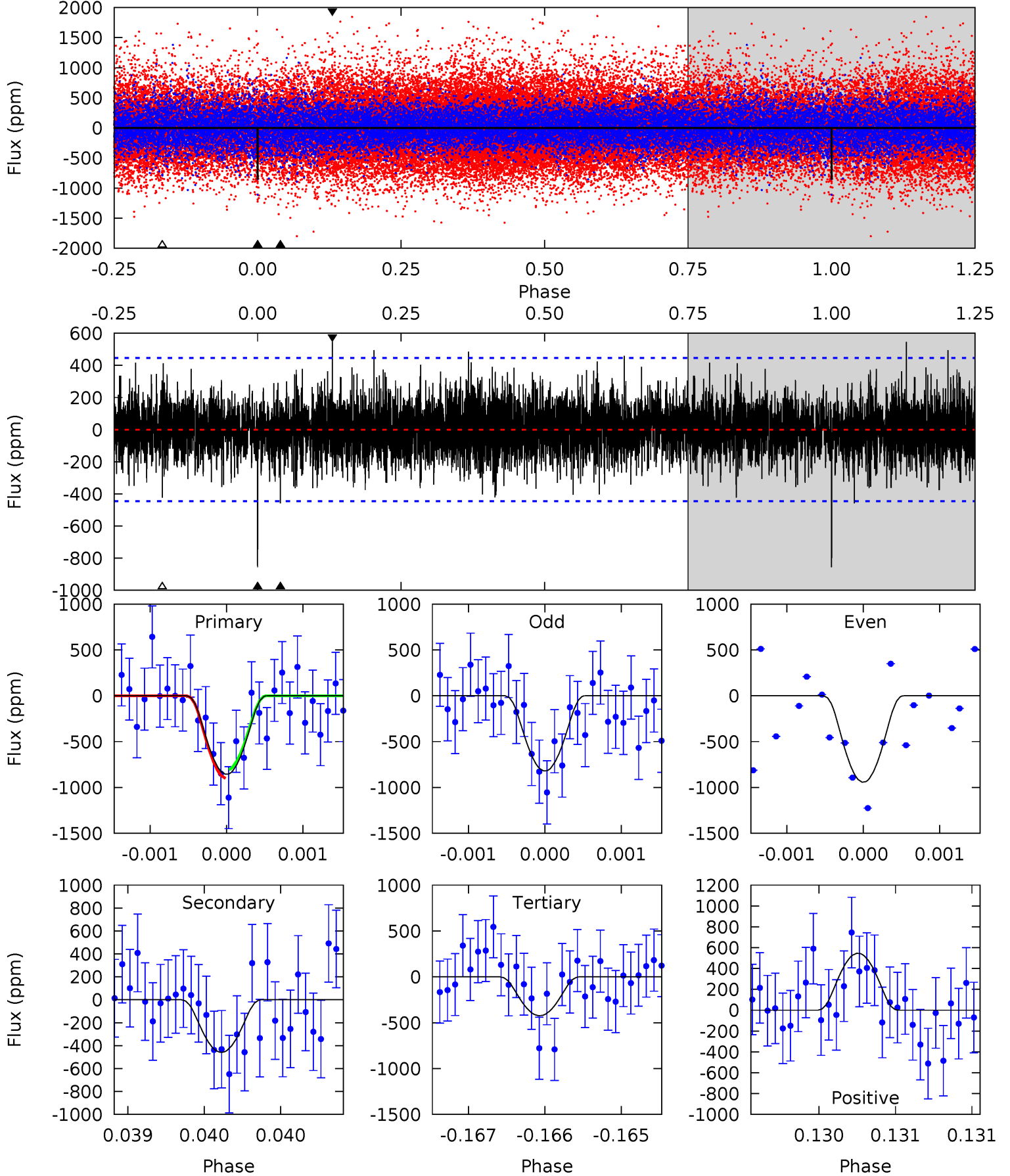
TCE 011204769-01 P=202.737523 Days $T_0=261.907333$ (BKJD)



DV Model-Shift Uniqueness Test

011204769-01, P = 202.735828 Days, E = 59.177100 Days

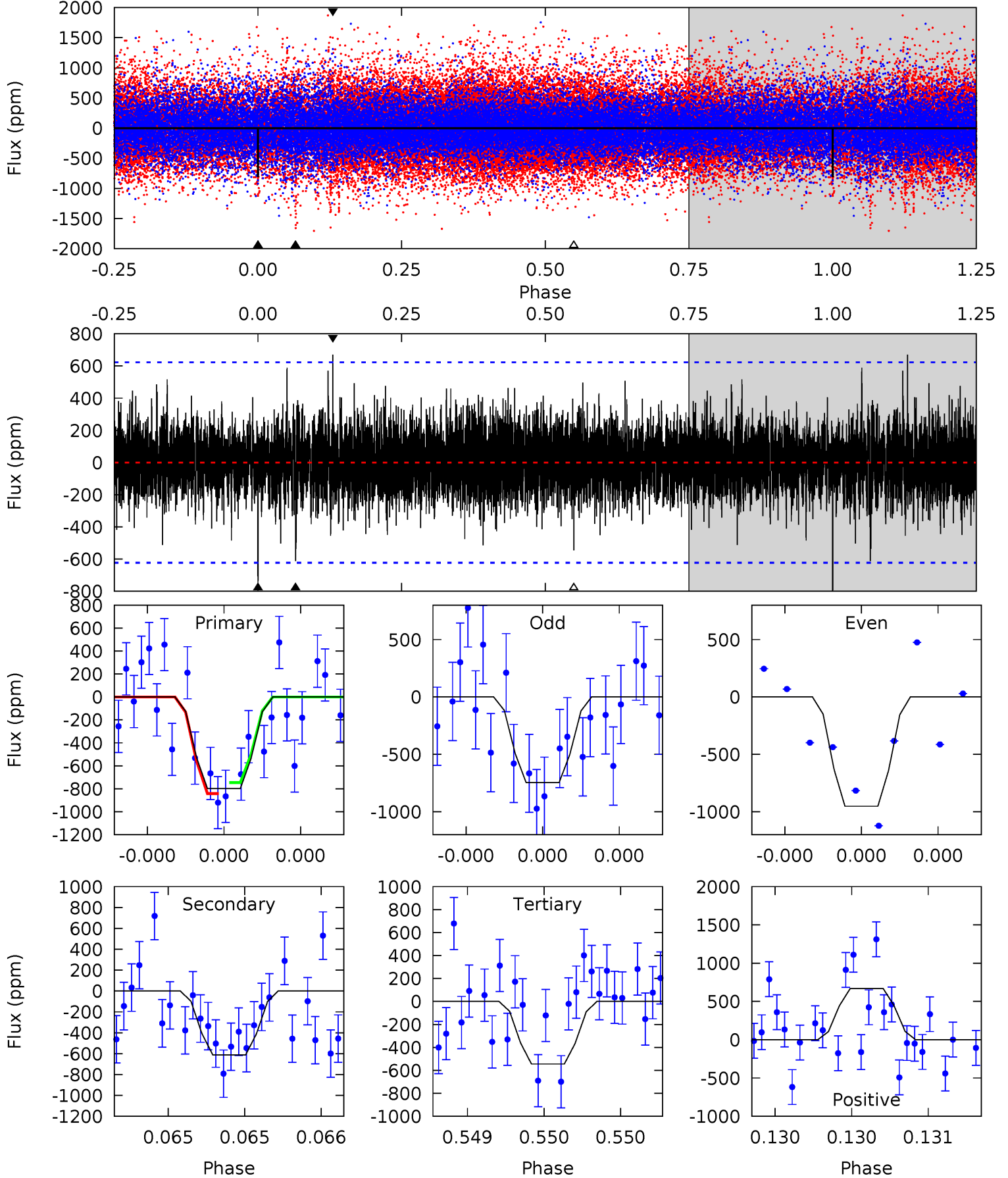
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.6	5.69	5.25	6.76	5.52	3.40	1.51	5.36	3.85	0.44	-1.08	0.66	1.03	0.39	0.58



Alt Model-Shift Uniqueness Test

011204769-01, P = 202.737523 Days, E = 59.169810 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.21	5.53	4.92	6.05	5.63	3.57	1.21	2.28	1.15	0.61	-0.52	0.83	0.97	0.46	0.44



Stellar Parameters For KIC 011204769

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6050^{+181}_{-199}	$4.414^{+0.090}_{-0.195}$	$-0.240^{+0.300}_{-0.300}$	$1.014^{+0.309}_{-0.133}$	$0.973^{+0.144}_{-0.120}$	$1.315^{+0.610}_{-0.669}$
	+3%/-3%	+2%/-4%	+125%/-125%	+30%/-13%	+15%/-12%	+46%/-51%
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 011204769-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-459 ± 81	$36.65^{+37.68}_{-25.48}$	466^{+33}_{-26}	2419^{+947}_{-336}	81^{+741}_{-60}
Alt.	-612 ± 111	$33.05^{+36.86}_{-24.52}$	465^{+36}_{-25}	2570^{+1264}_{-401}	138^{+1808}_{-108}

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

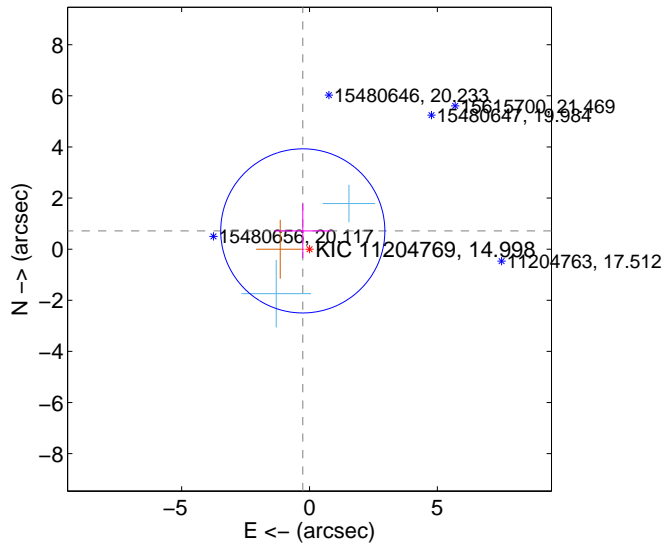
Supplemental centroid analysis for 011204769-01. Kepler magnitude: 15.00. Transit SNR 7.99

There are 2 quarters with good PRF difference image offsets

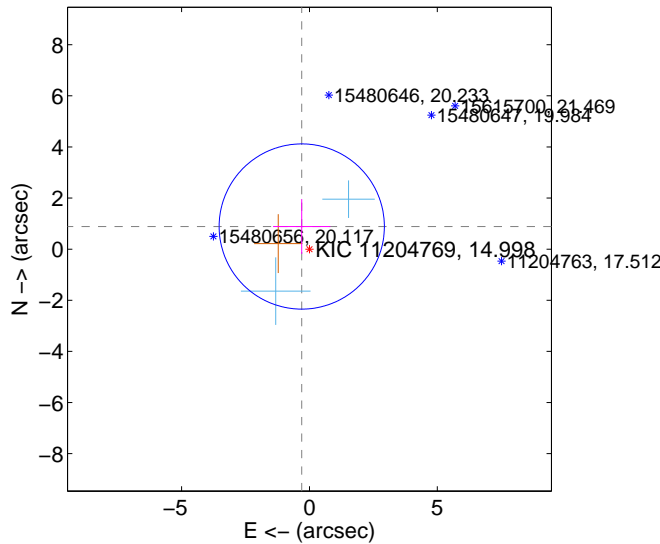
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.762 ± 1.070	0.71	0.263 ± 1.116	0.715 ± 1.064
PRF-fit source offset from KIC position	0.936 ± 1.077	0.87	0.301 ± 1.121	0.886 ± 1.072
photometric centroid source offset	1.67 ± 2.07	0.80	-1.66 ± 2.07	-0.10 ± 2.03

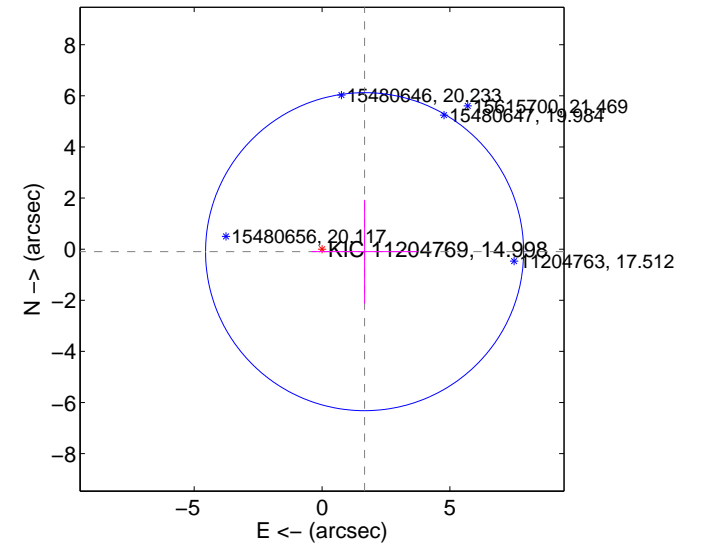
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

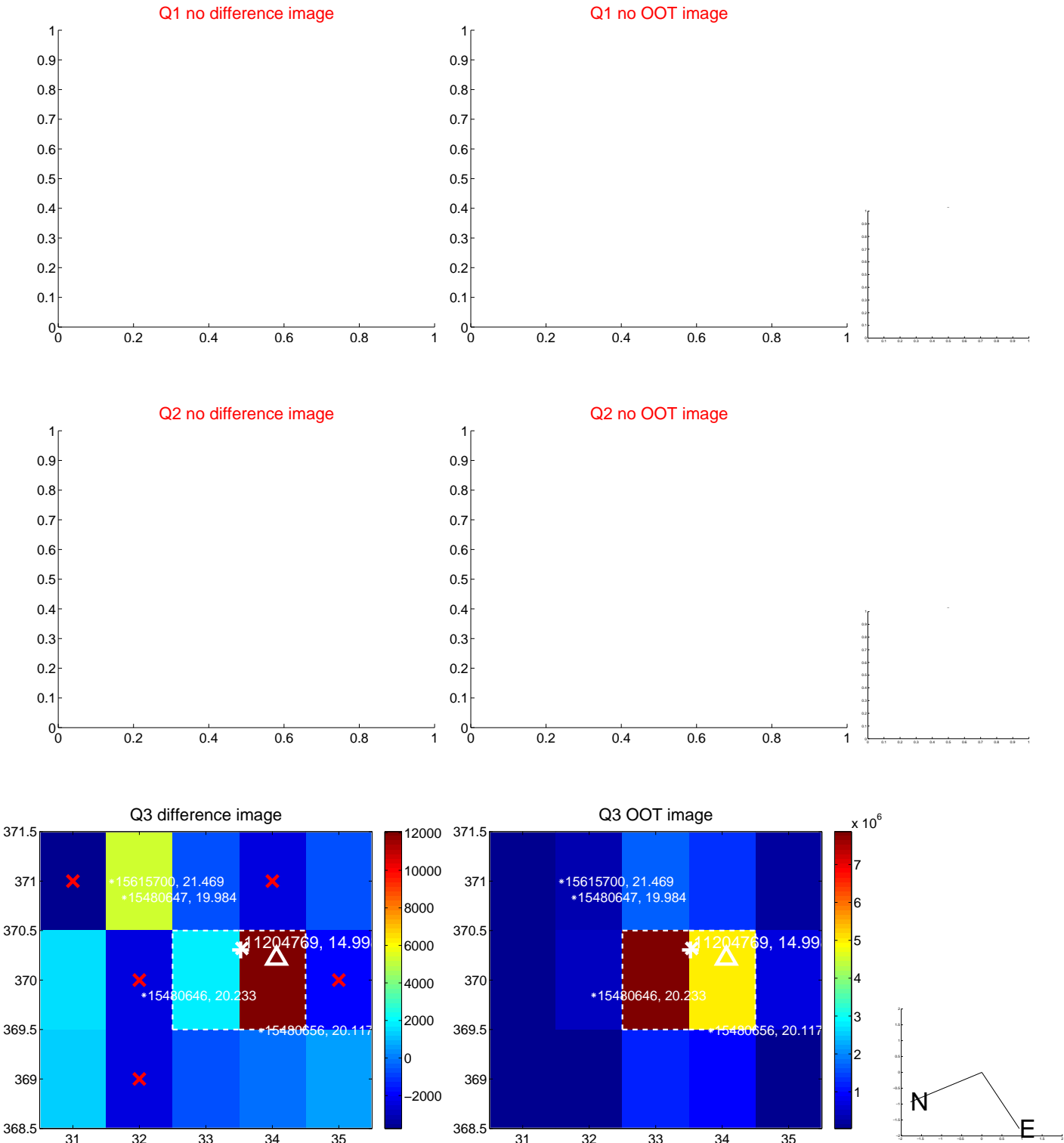


offset from photometric centroids

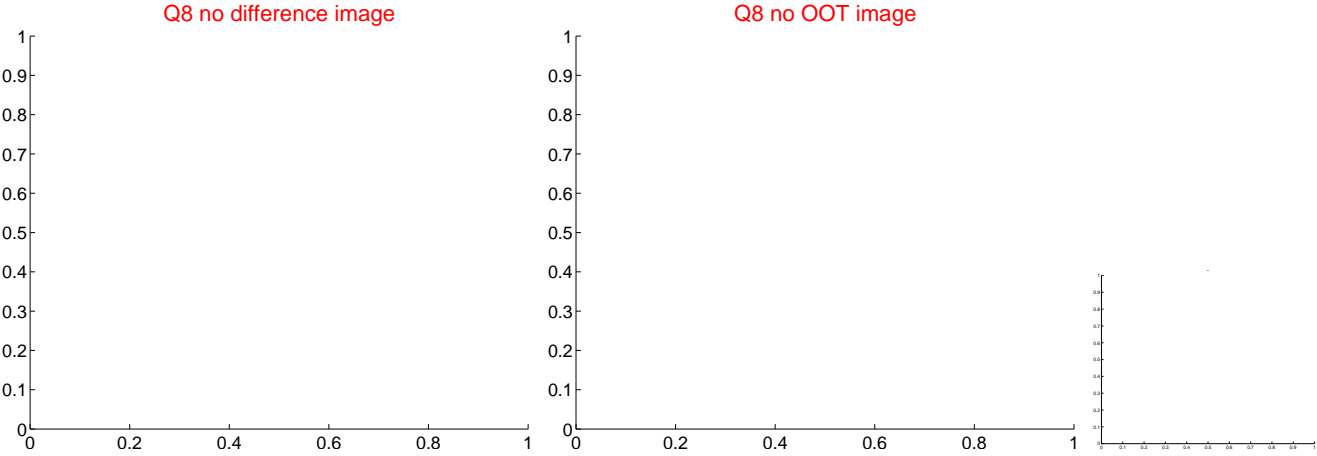
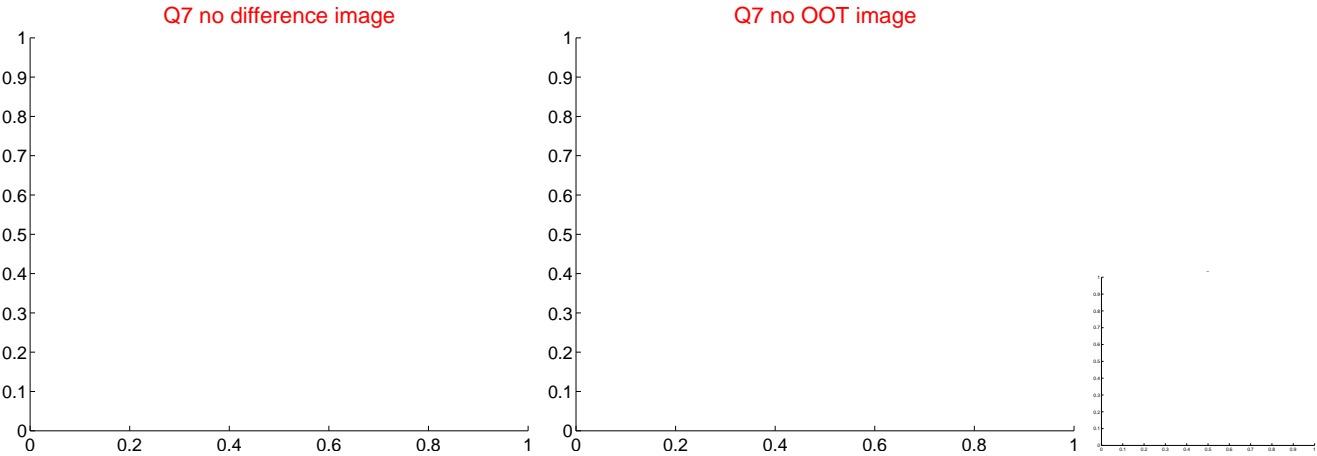
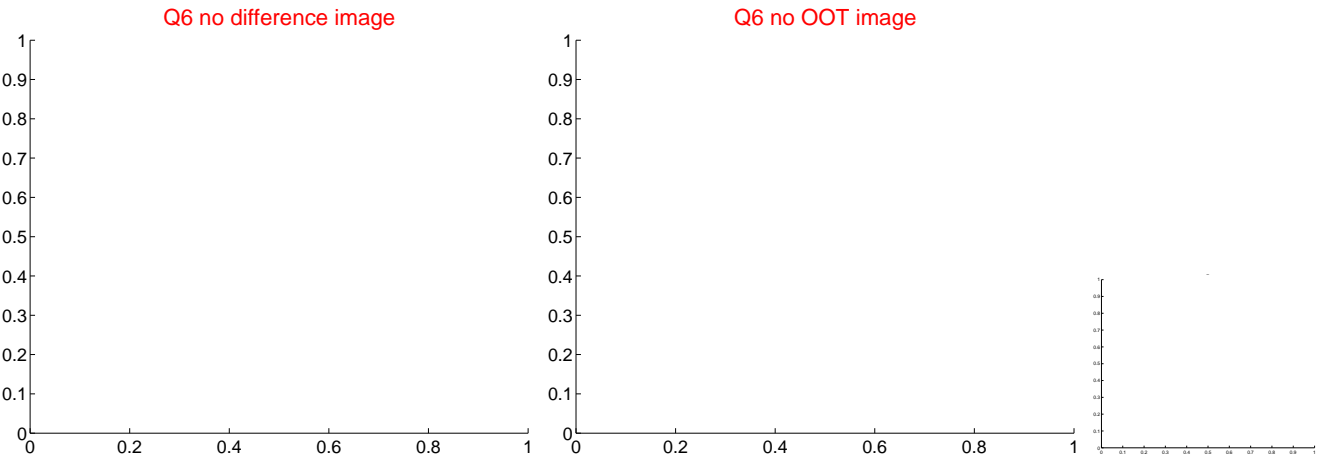
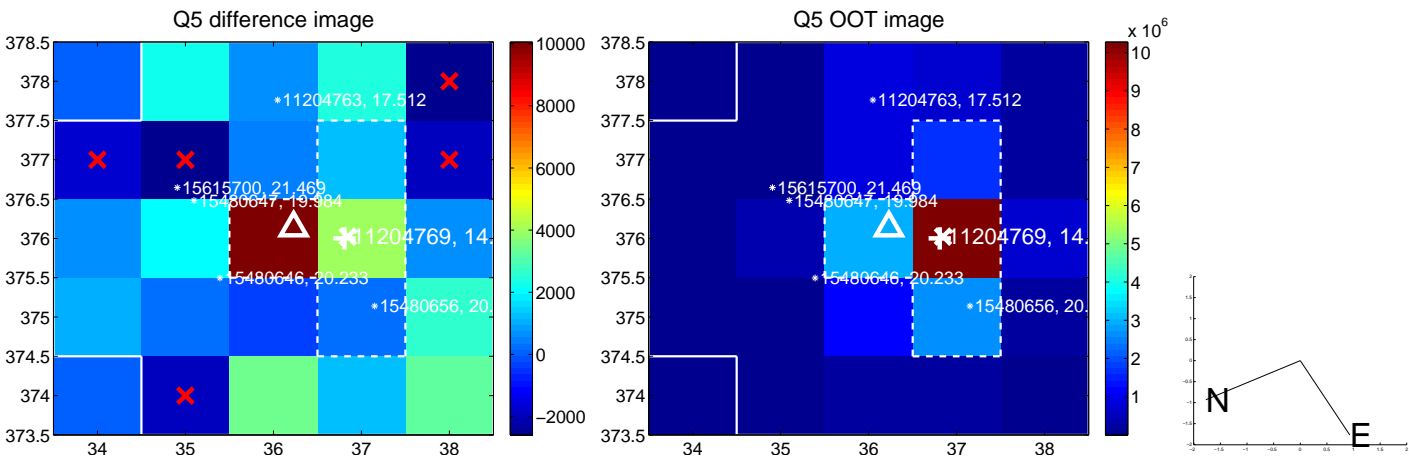


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

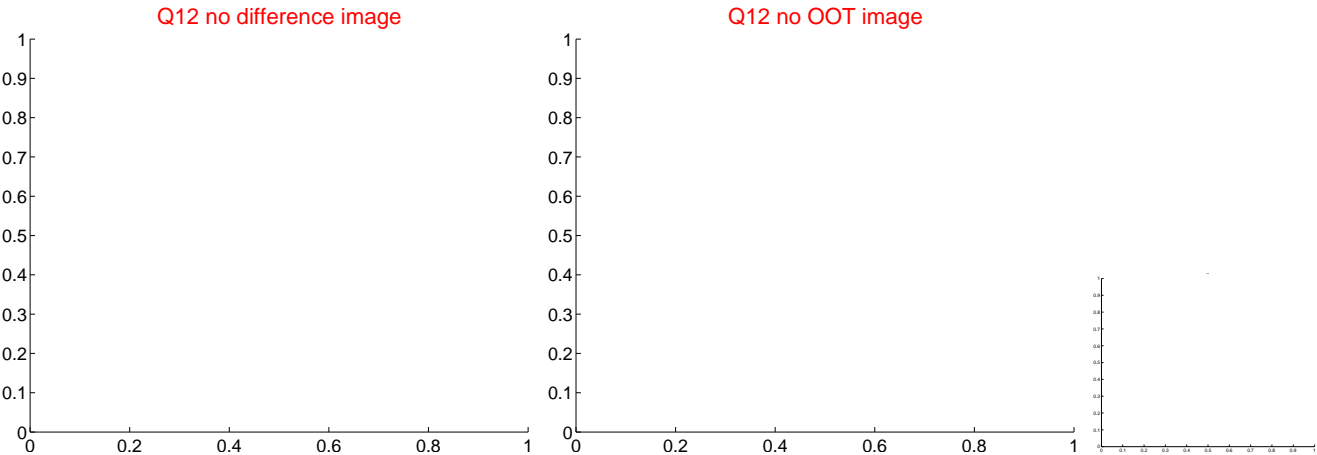
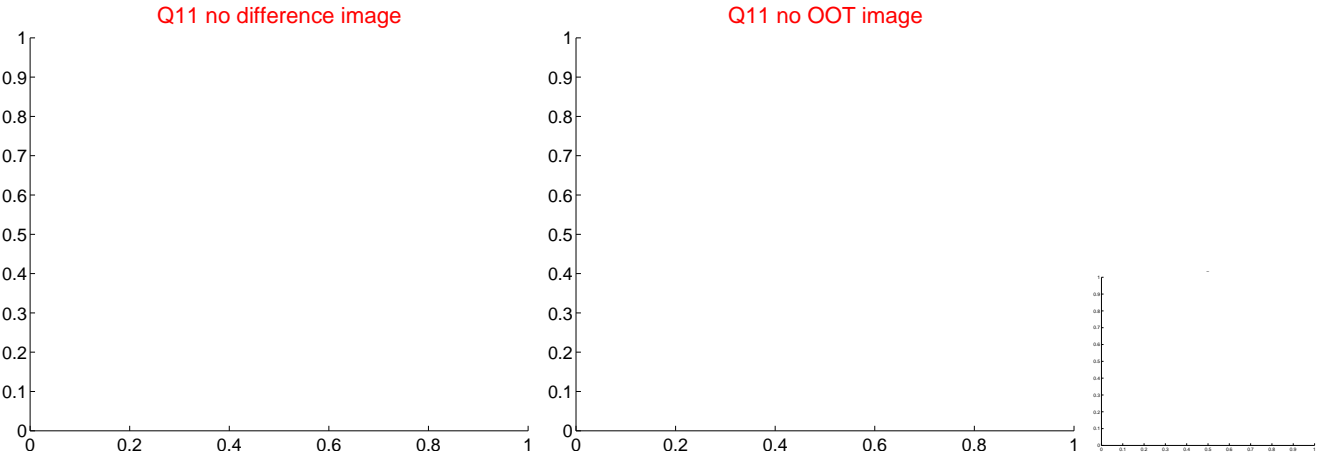
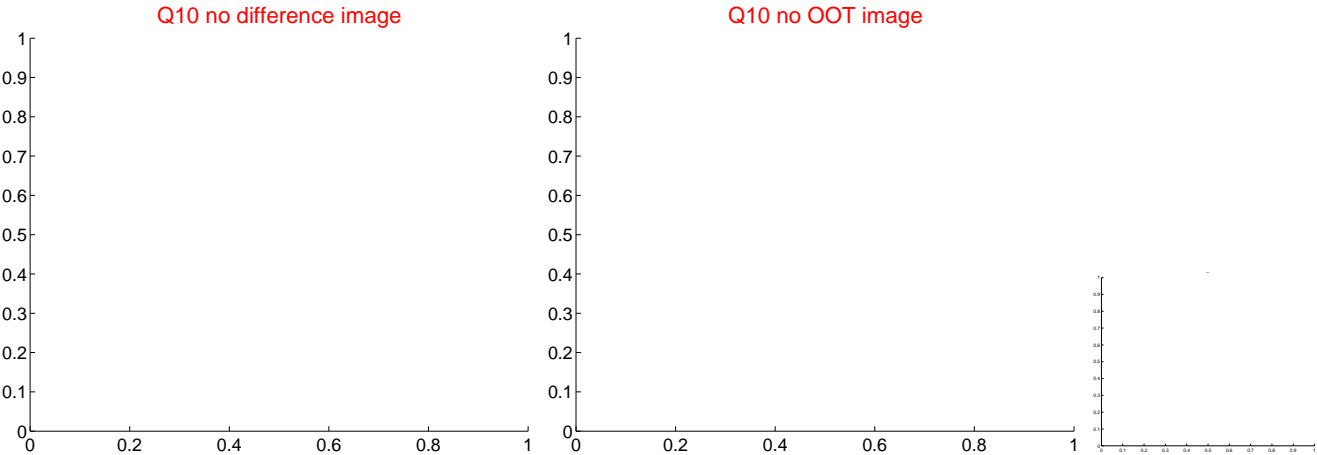
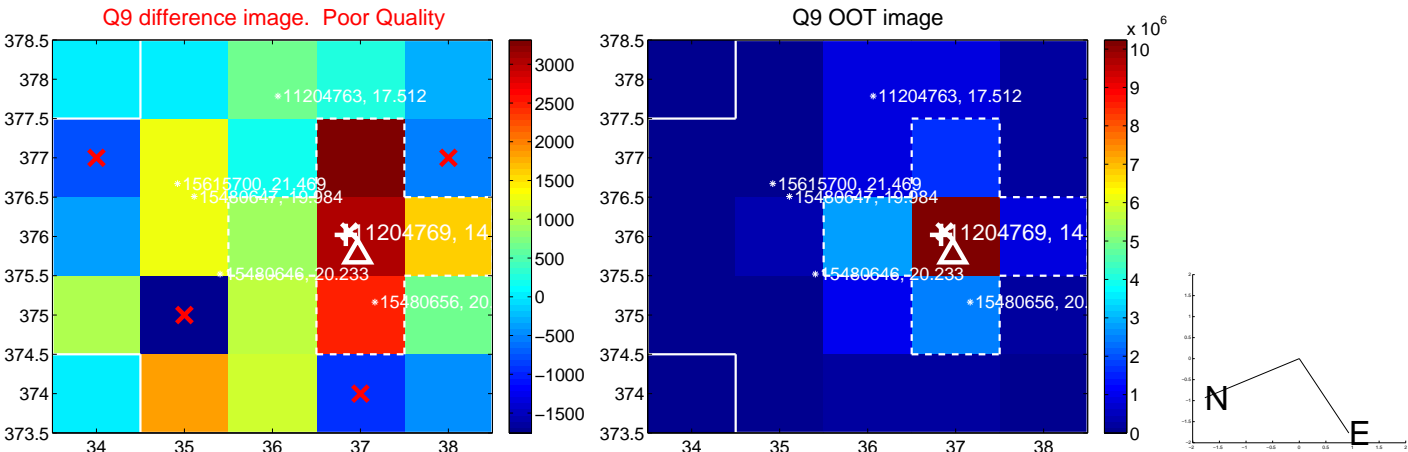
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



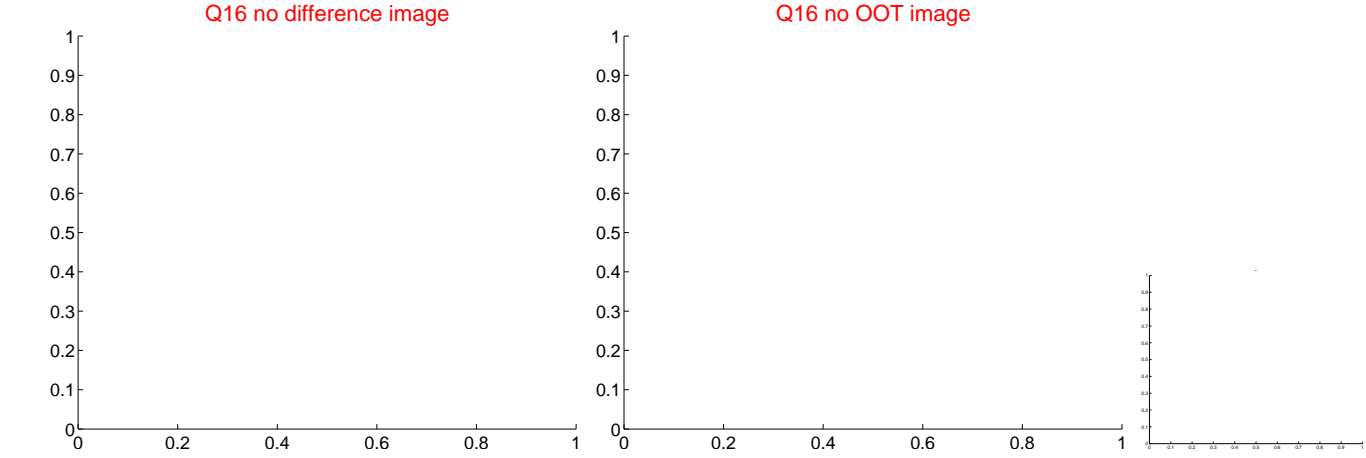
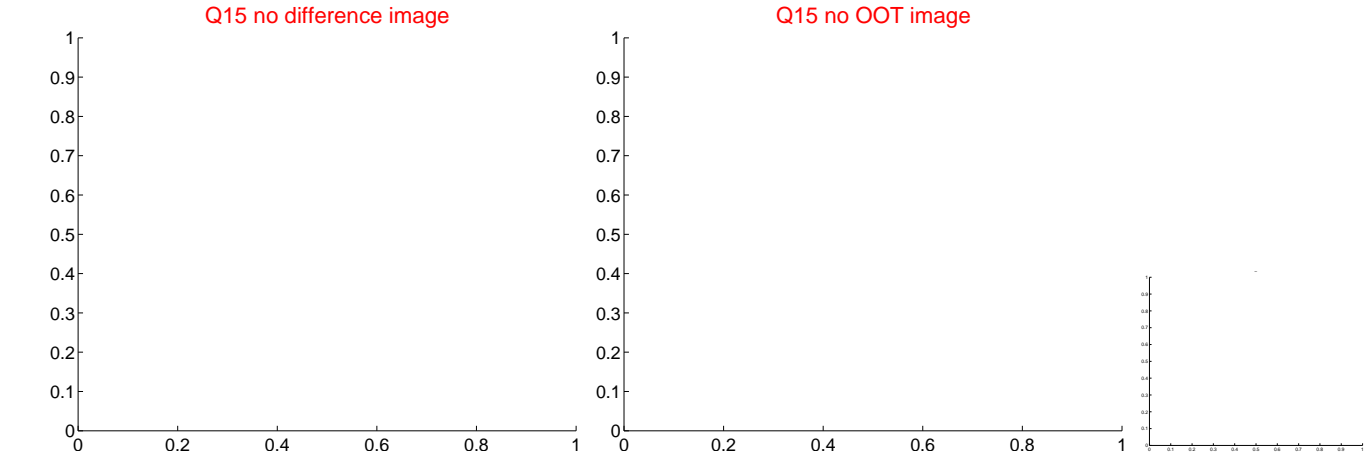
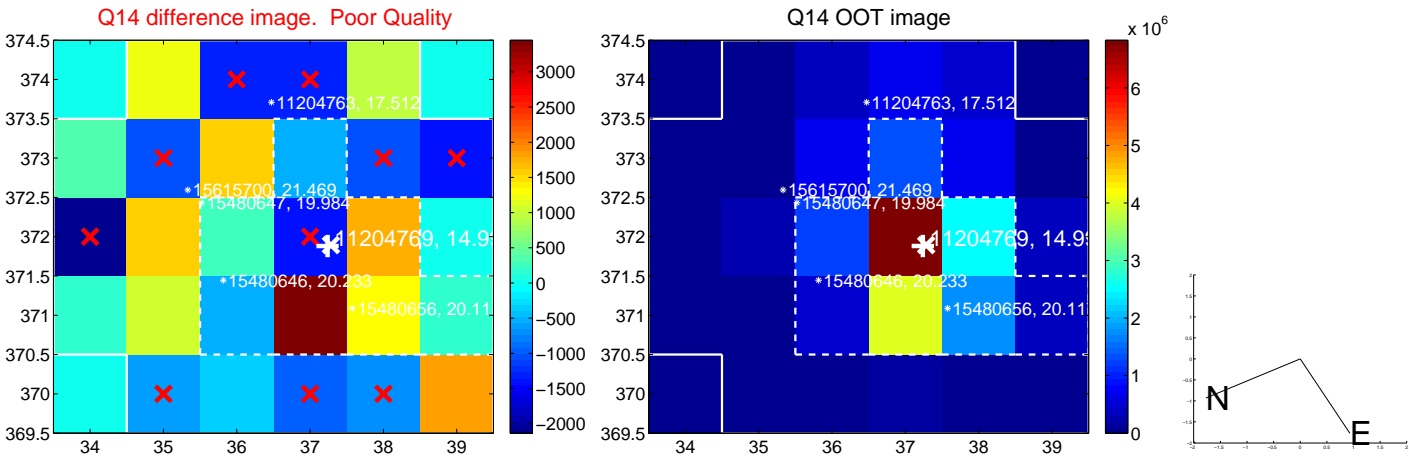
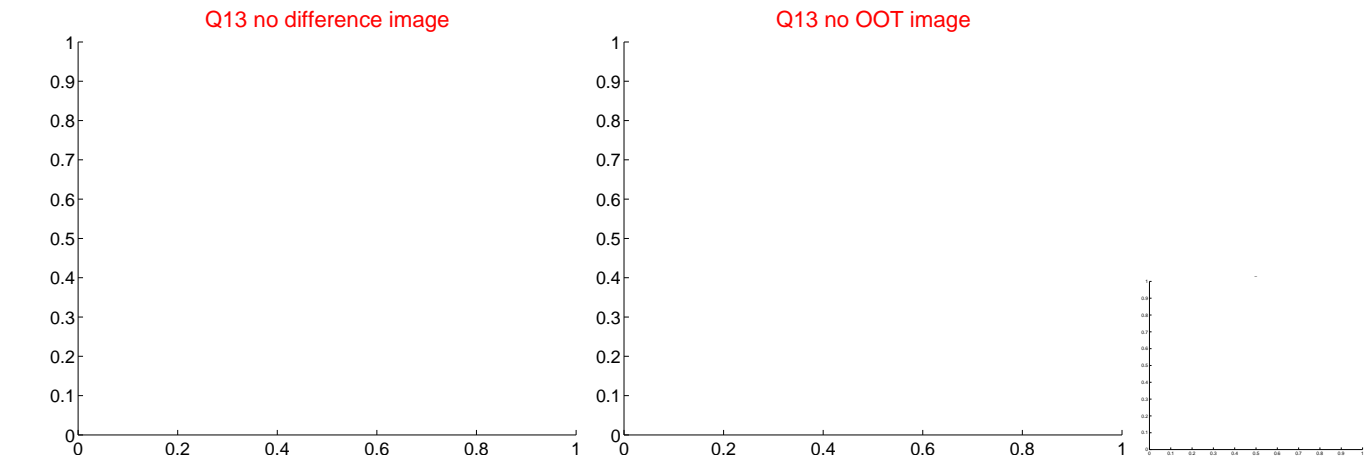
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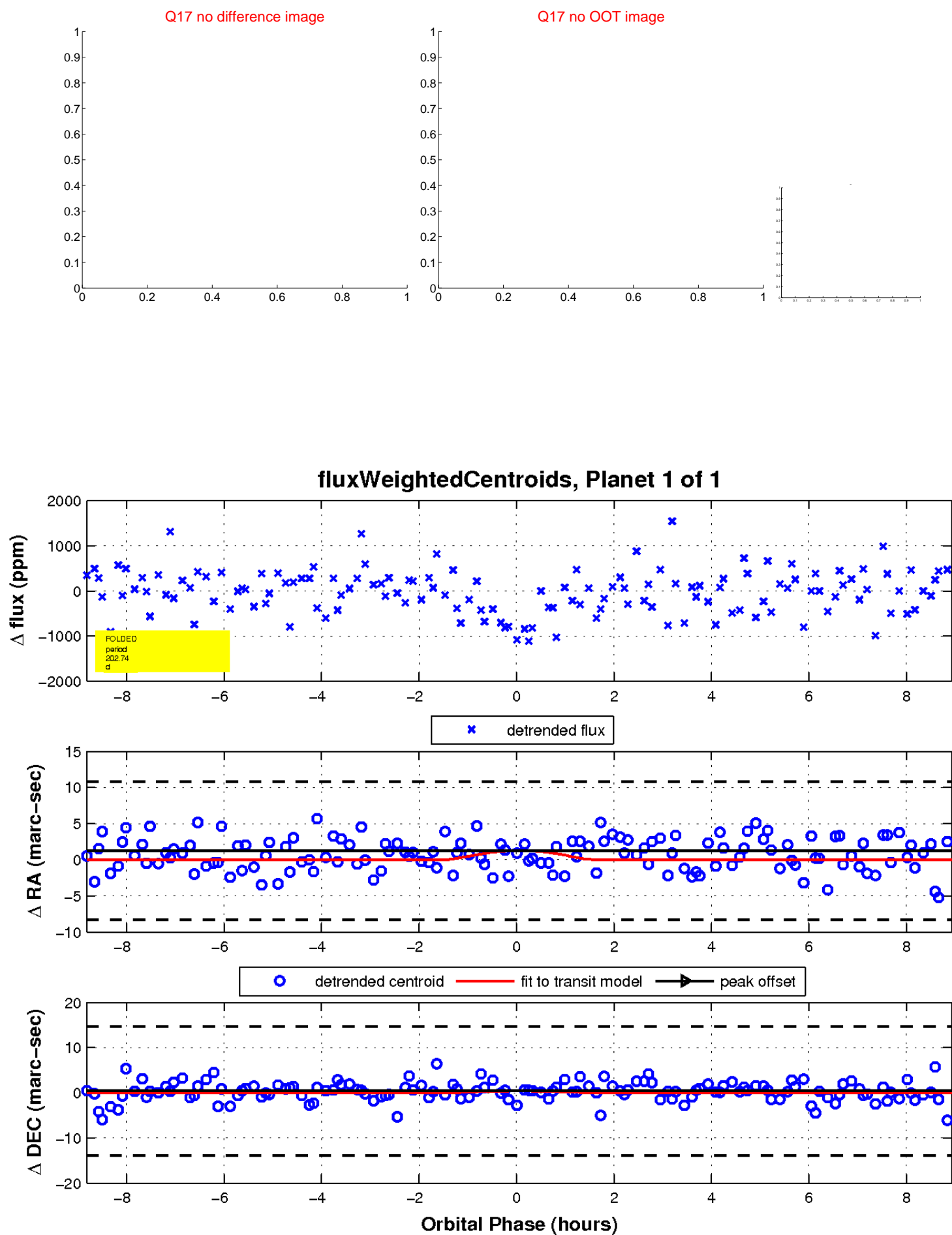
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UKIRT Image

Declination

