

KIC 008265269

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})
008265269-01	OBS	No	0.779921	132.194310	11.8	3.096	7.3	7.5	1.38	6807	0.55	11075.40

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008265269-01	OBS	FP	0.00	1	0	0	1	LPP_DV—CENT_KIC_POS—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.

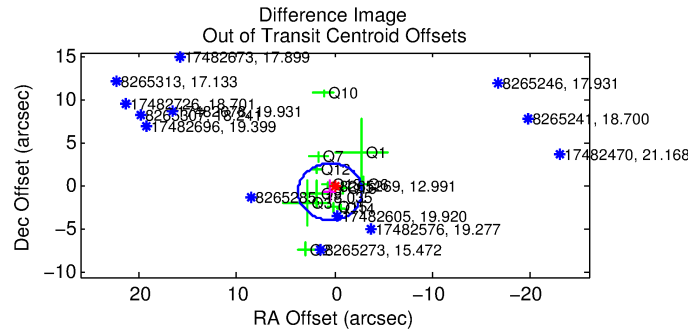
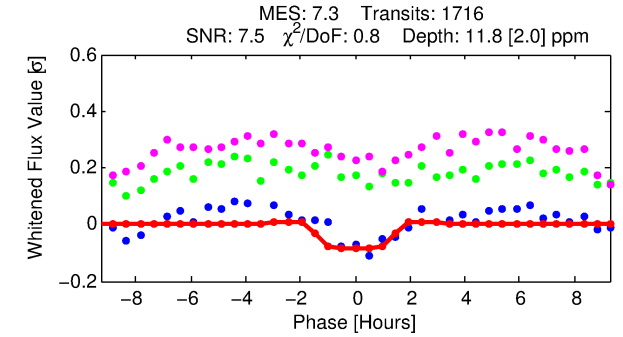
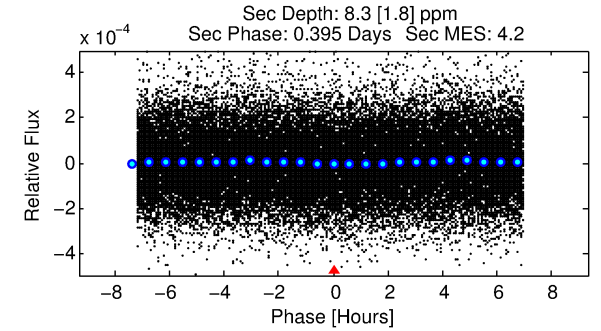
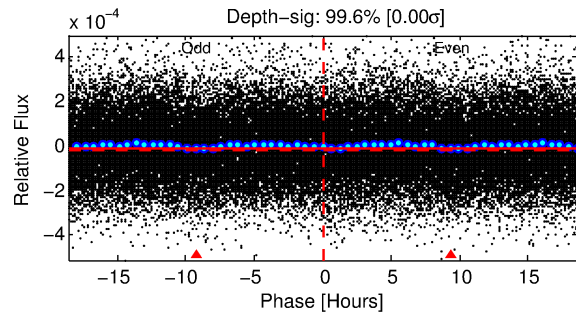
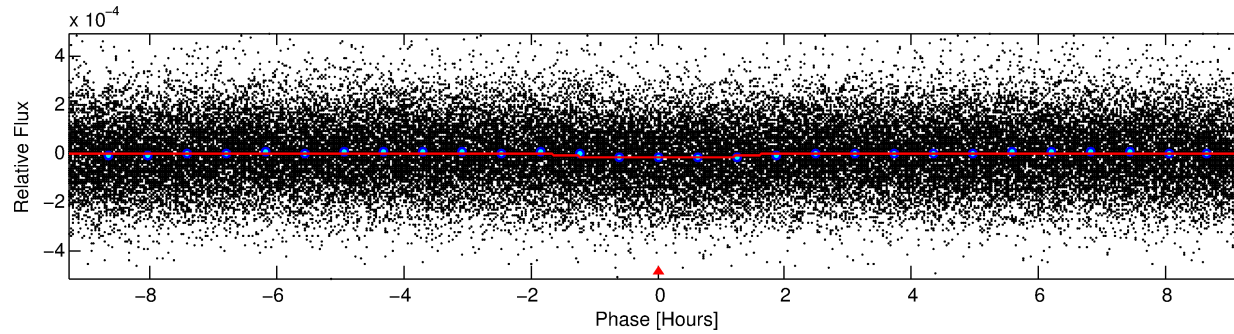
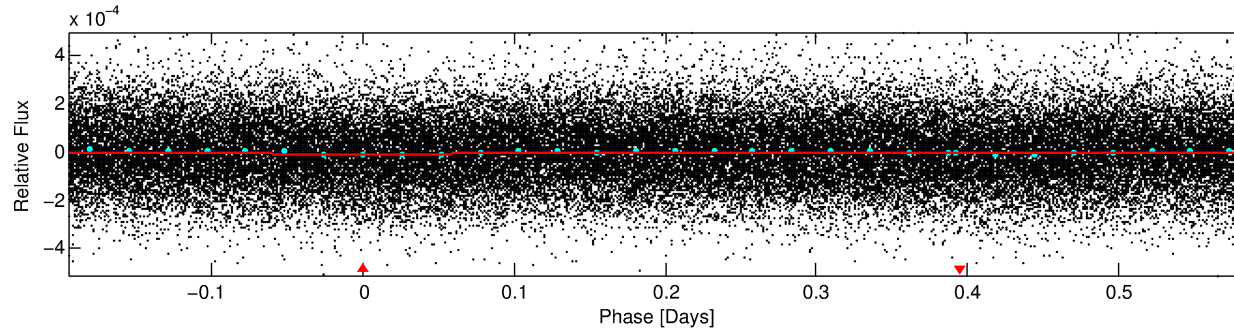
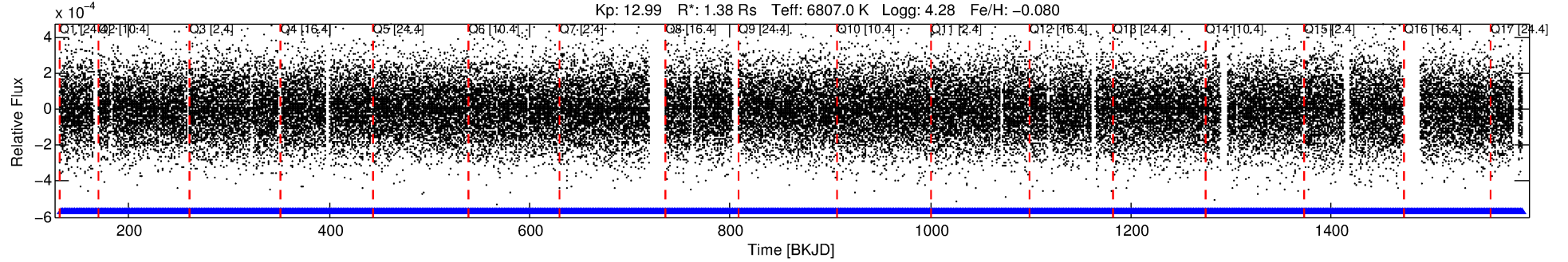
Ephemeris Match Information For 008265269-01

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
008265269-01	8265269	008265951-pri	8265951	1:1	539.2	135	0	12.73	12.99	24500.00	Col-Anomaly	0	4.74	2.50

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: 8265269 Candidate: 1 of 1 Period: 0.780 d



DV Fit Results:

Period = 0.77992 [0.00001] d
Epoch = 132.1943 [0.0049] BKJD
Rp/R* = 0.0037 [0.0016]
a/R* = 1.27 [1.26]
b = 0.90 [0.56]
Seff = 11075.40 [4737.64]
Teq = 2616 [280] K
Rp = 0.55 [0.31] Re
a = 0.0182 [0.0051] AU
Ag = 4.93 [4.86] [0.81σ]
Teffp = 6028 [1382] K [2.42σ]

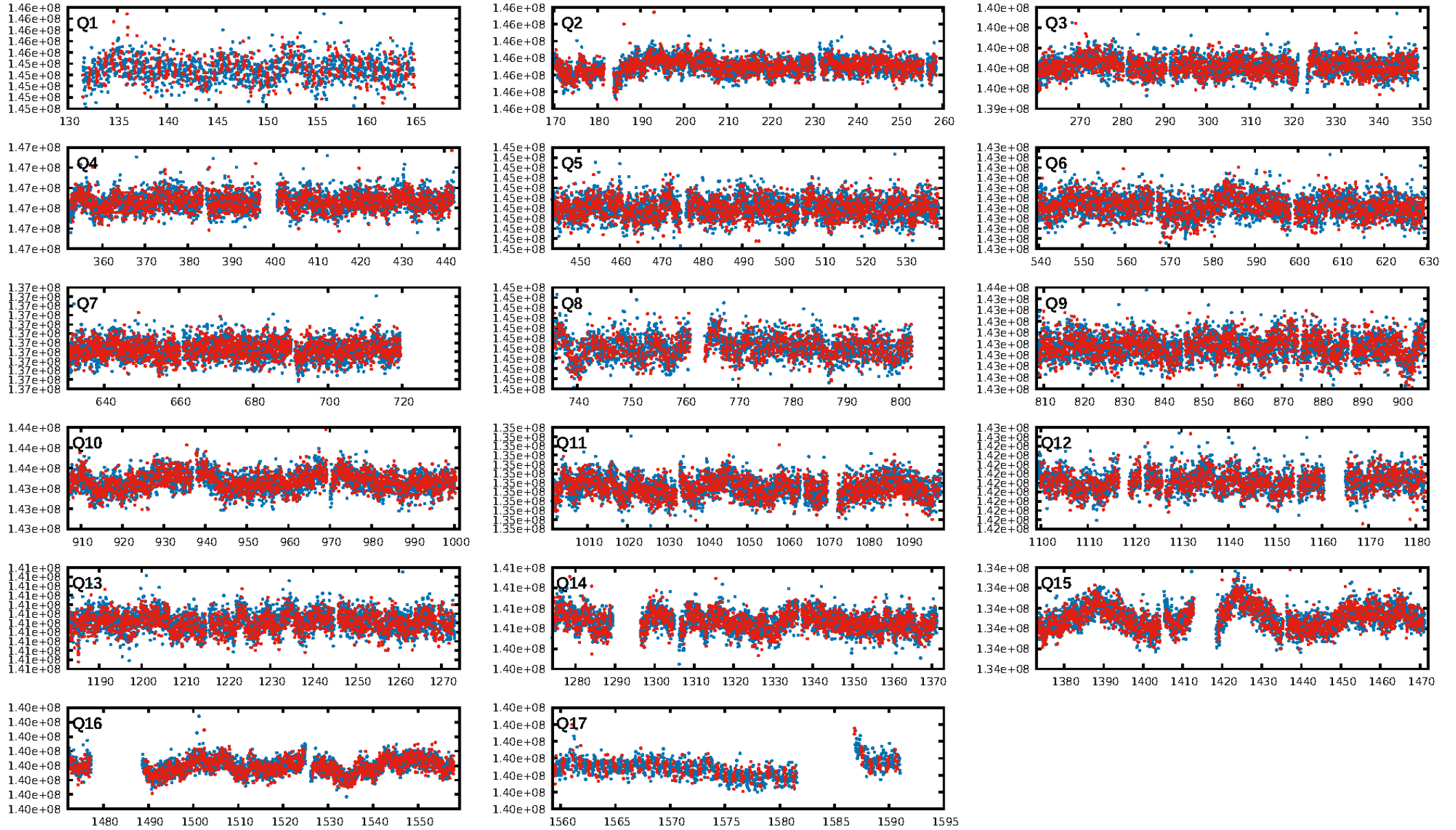
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.29e-12
RollingBand-fgt: 1.00 [1639/1639]
GhostDiagnostic-chr: 1.206
Centroid-sig: 1.9%
Centroid-so: 3.822 arcsec [2.22σ]
OotOffset-rm: 0.779 arcsec [0.71σ]
KicOffset-rm: 0.953 arcsec [0.79σ]
OotOffset-st: 4/3/2/3 [12]
KicOffset-st: 4/3/2/3 [12]
DiffImageQuality-fgm: 0.50 [6/12]
DiffImageOverlap-fno: 1.00 [17/17]

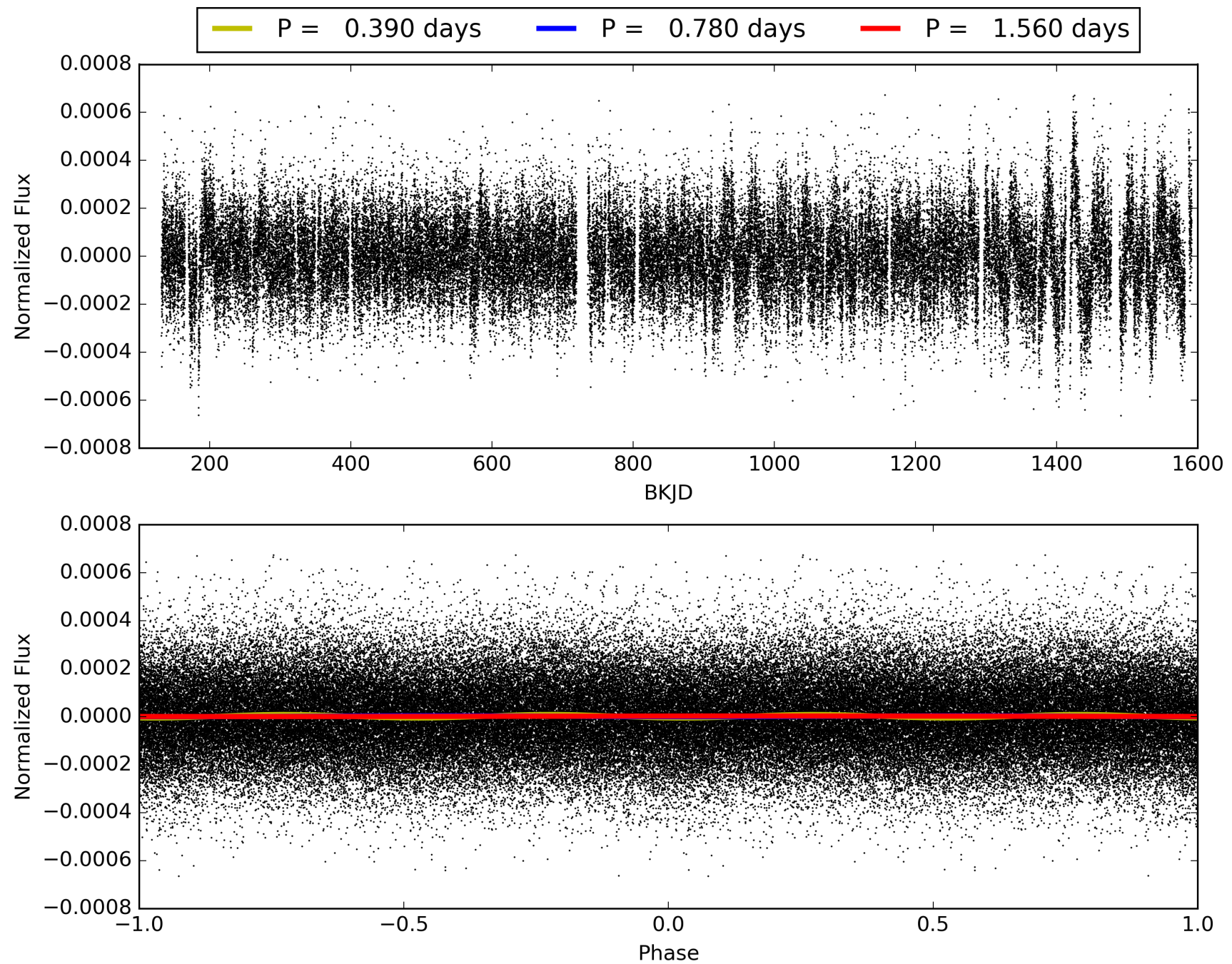
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 22:54:35 Z

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

TCE 008265269-01, PDC Light Curves

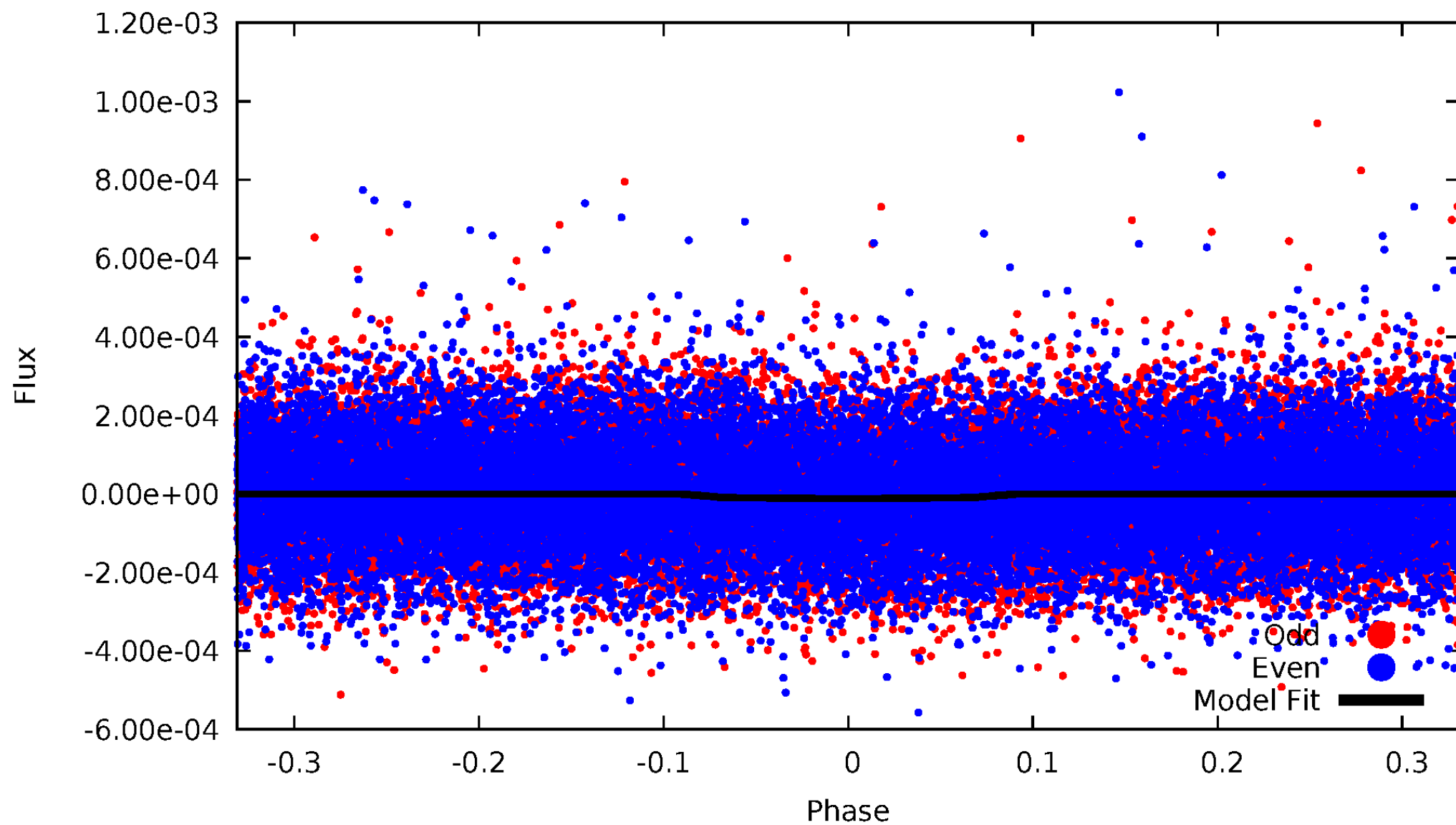


TCE 008265269-01



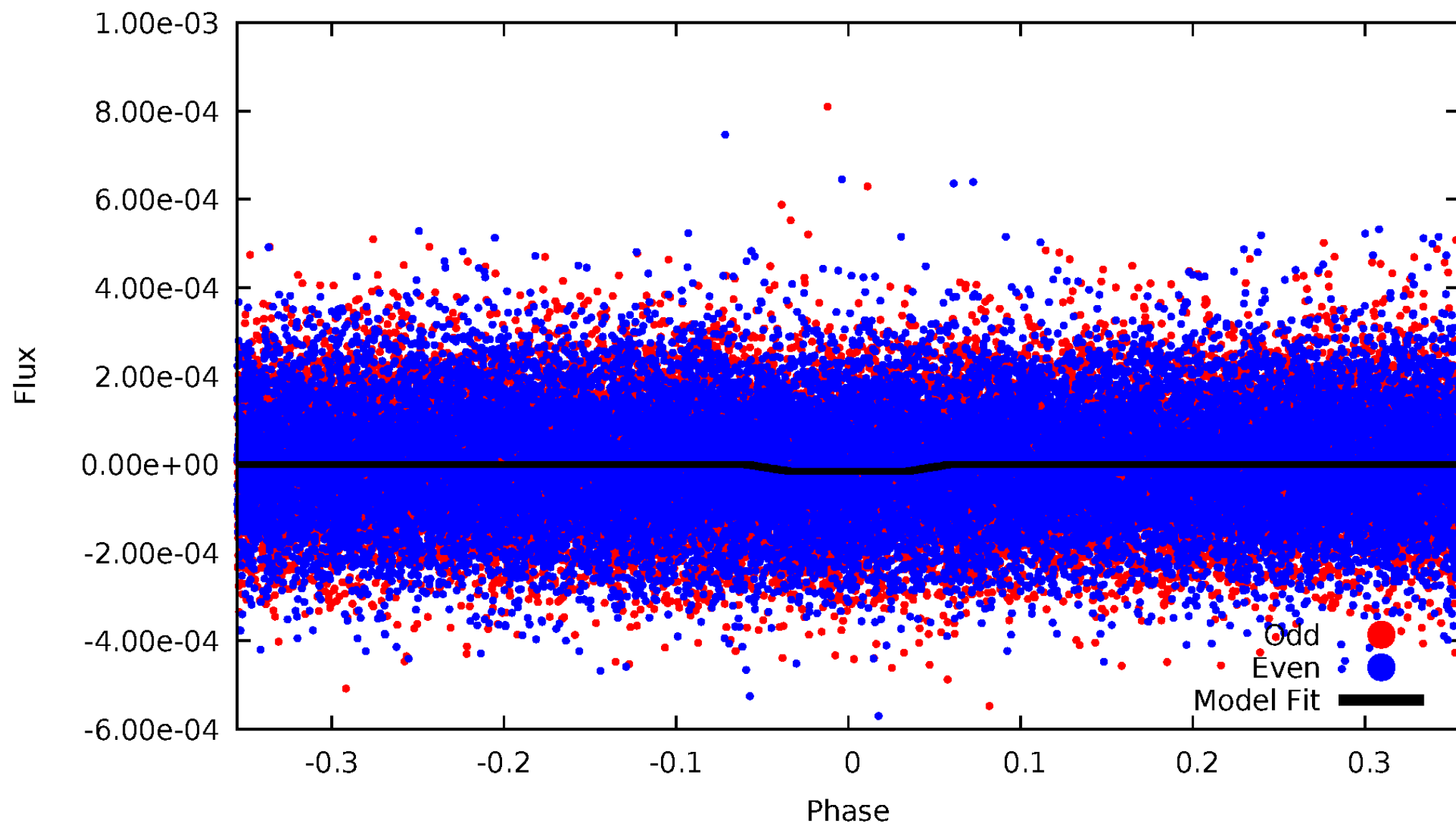
DV Odd/Even

TCE 008265269-01

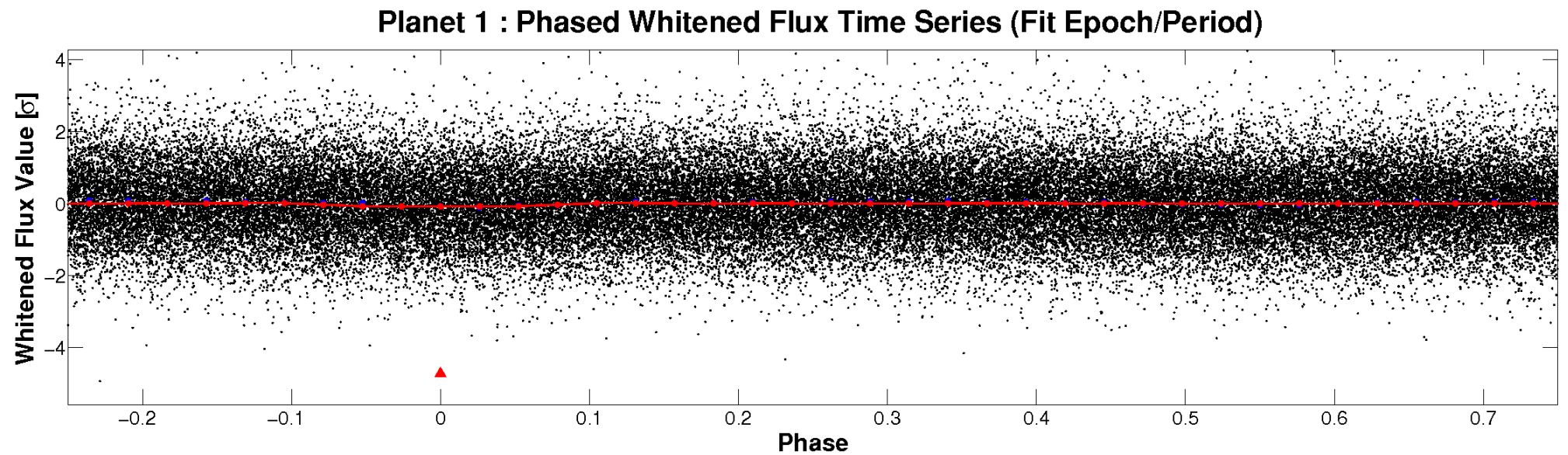
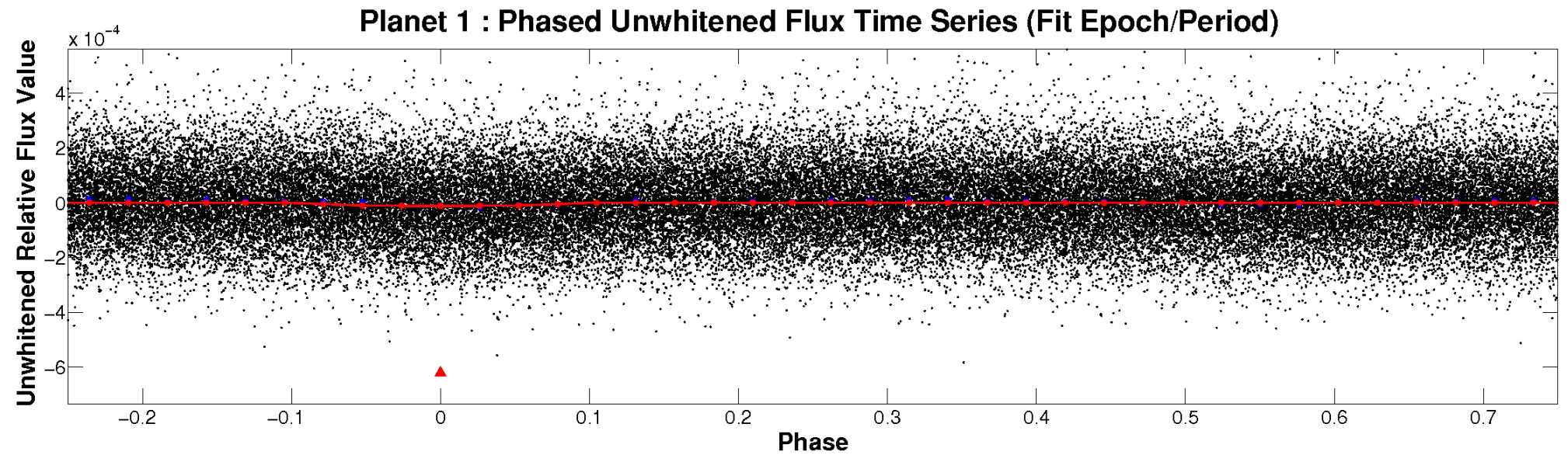


ALT Odd/Even

TCE 008265269-01

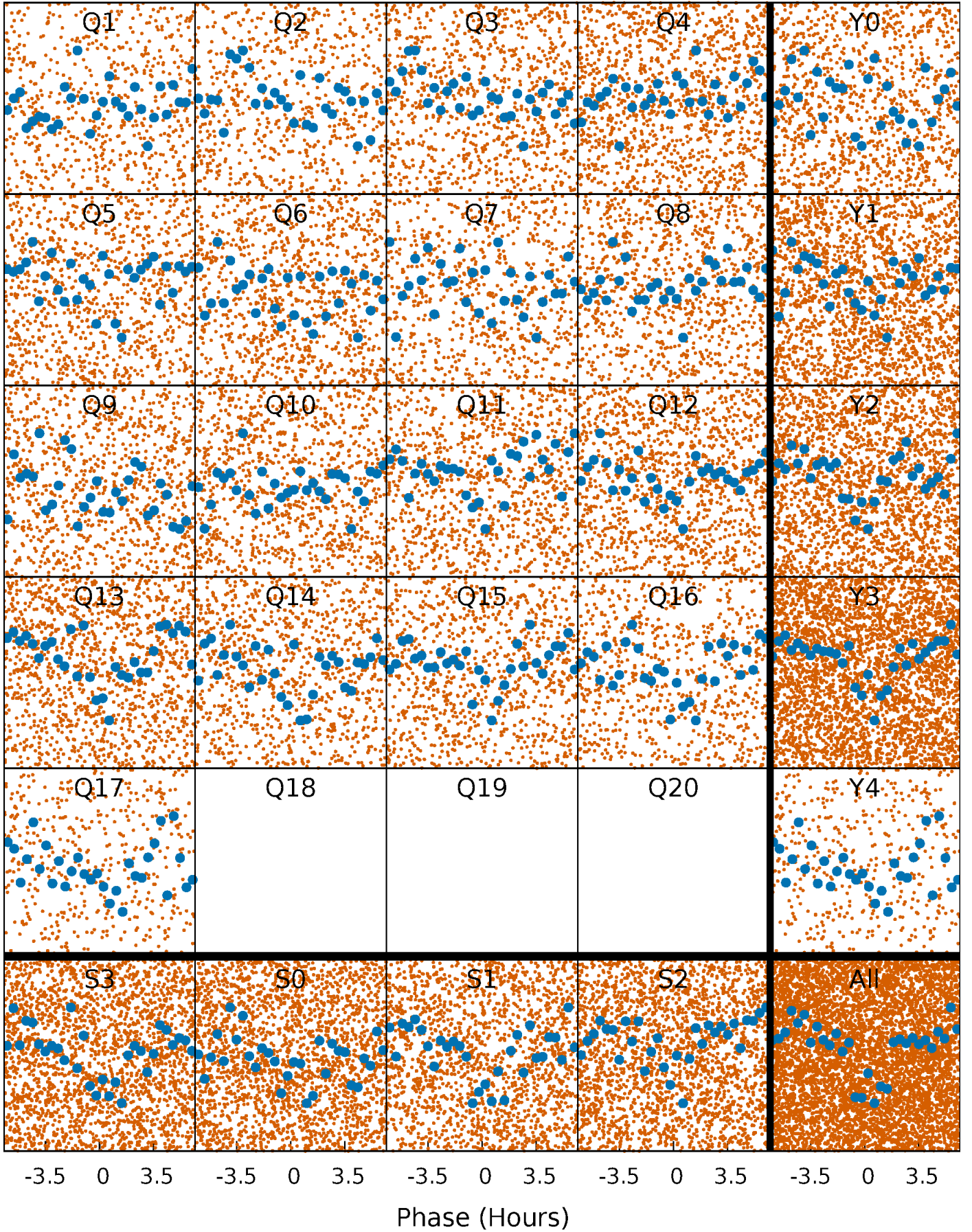


Non-Whitened Vs. Whitened Light Curve



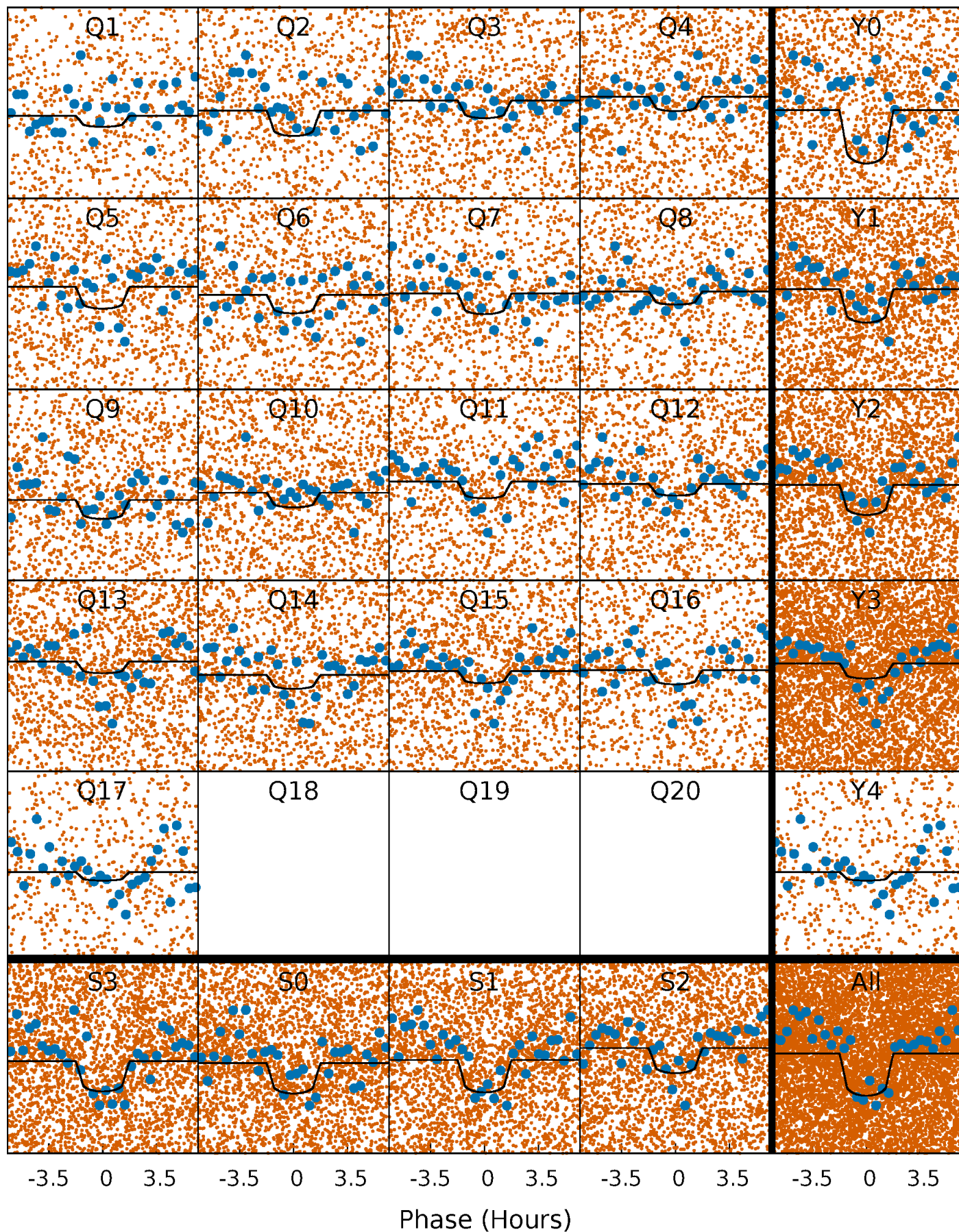
PDC Quarter-Phased Transit Curves

TCE 008265269-01 P= 0.779921 Days $T_0=132.194310$ (BKJD)



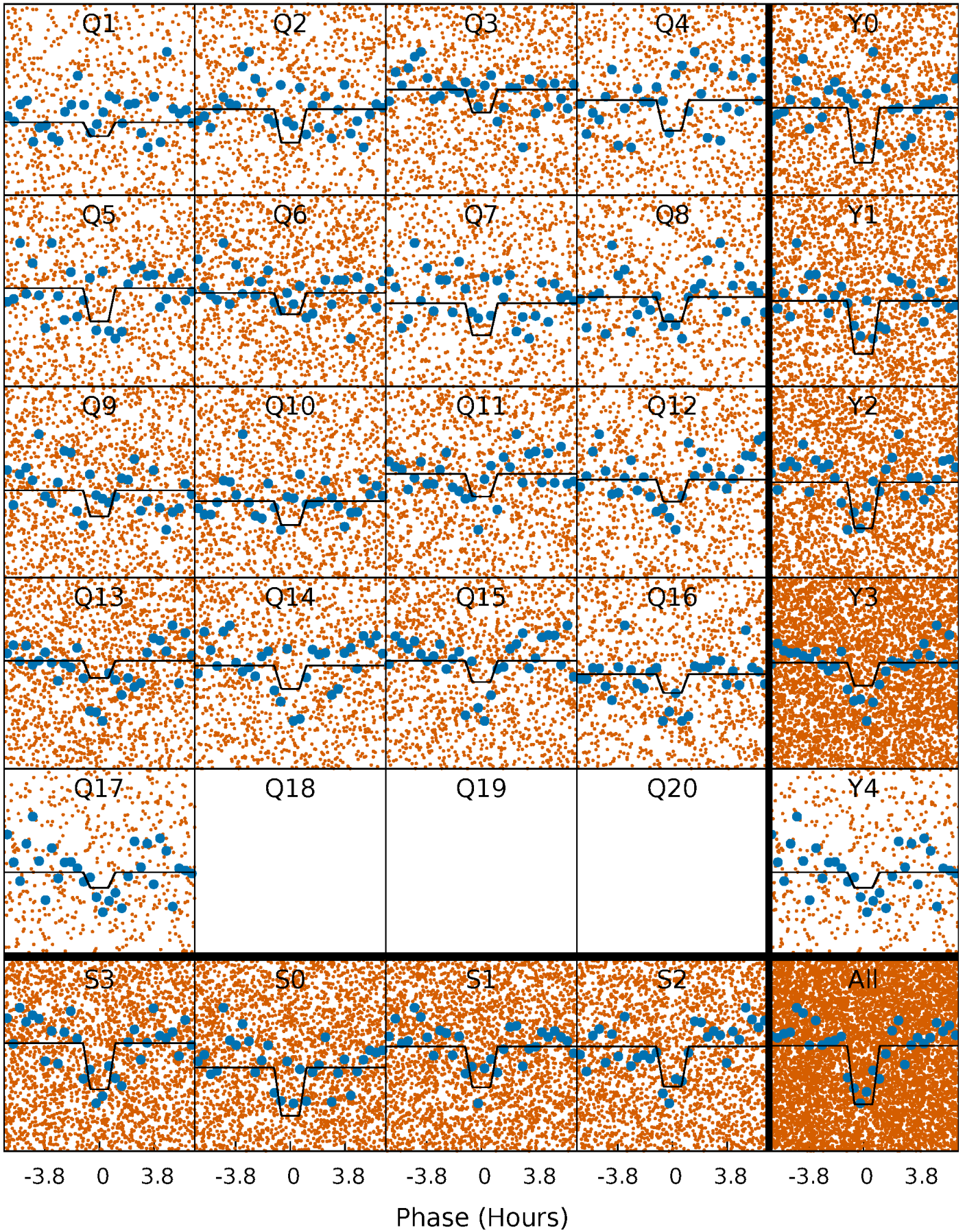
DV Quarter-Phased Transit Curves

TCE 008265269-01 P= 0.779921 Days $T_0=132.194310$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

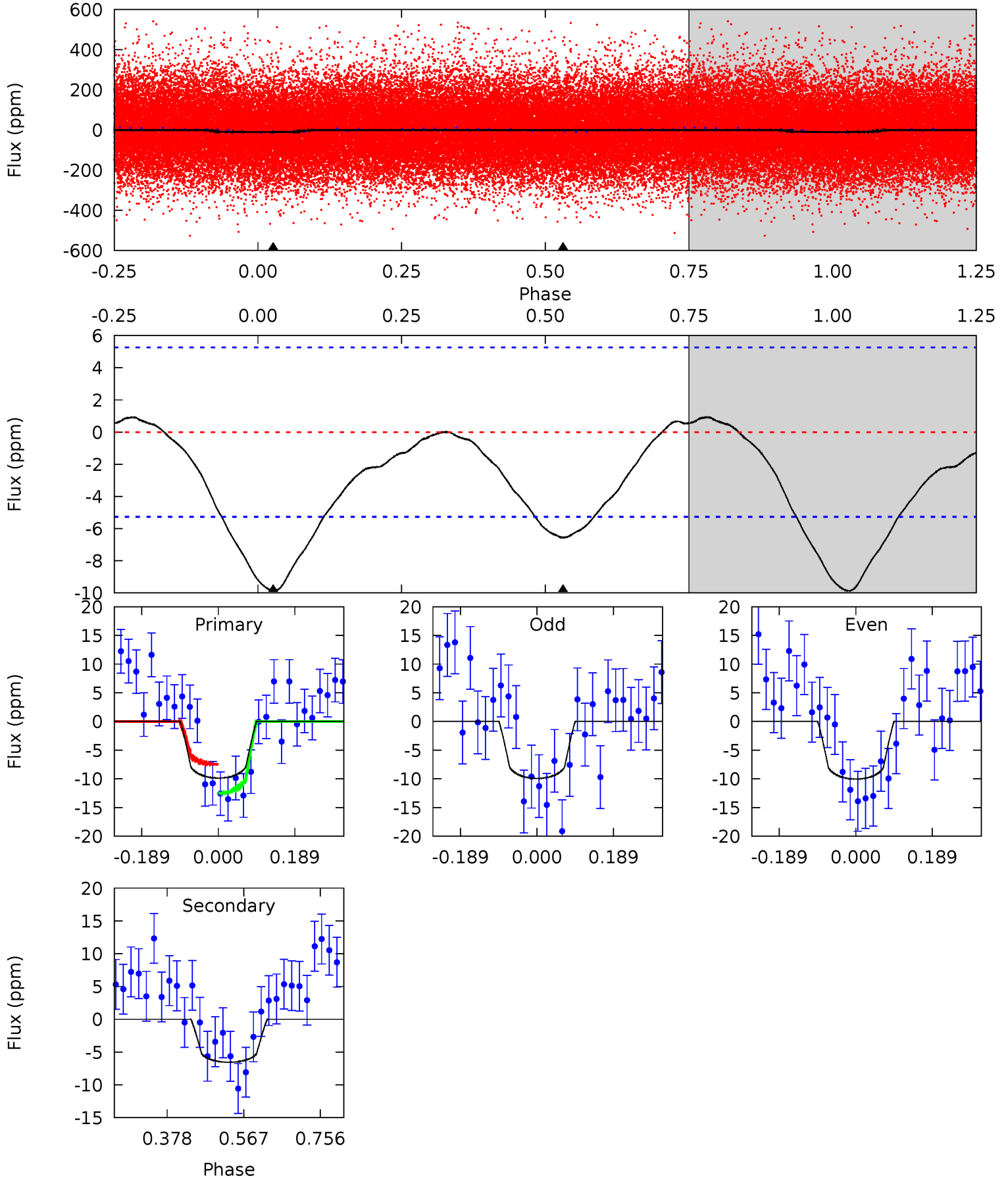
TCE 008265269-01 P= 0.779936 Days $T_0=132.190845$ (BKJD)



DV Model-Shift Uniqueness Test

008265269-01, P = 0.779921 Days, E = 131.414389 Days

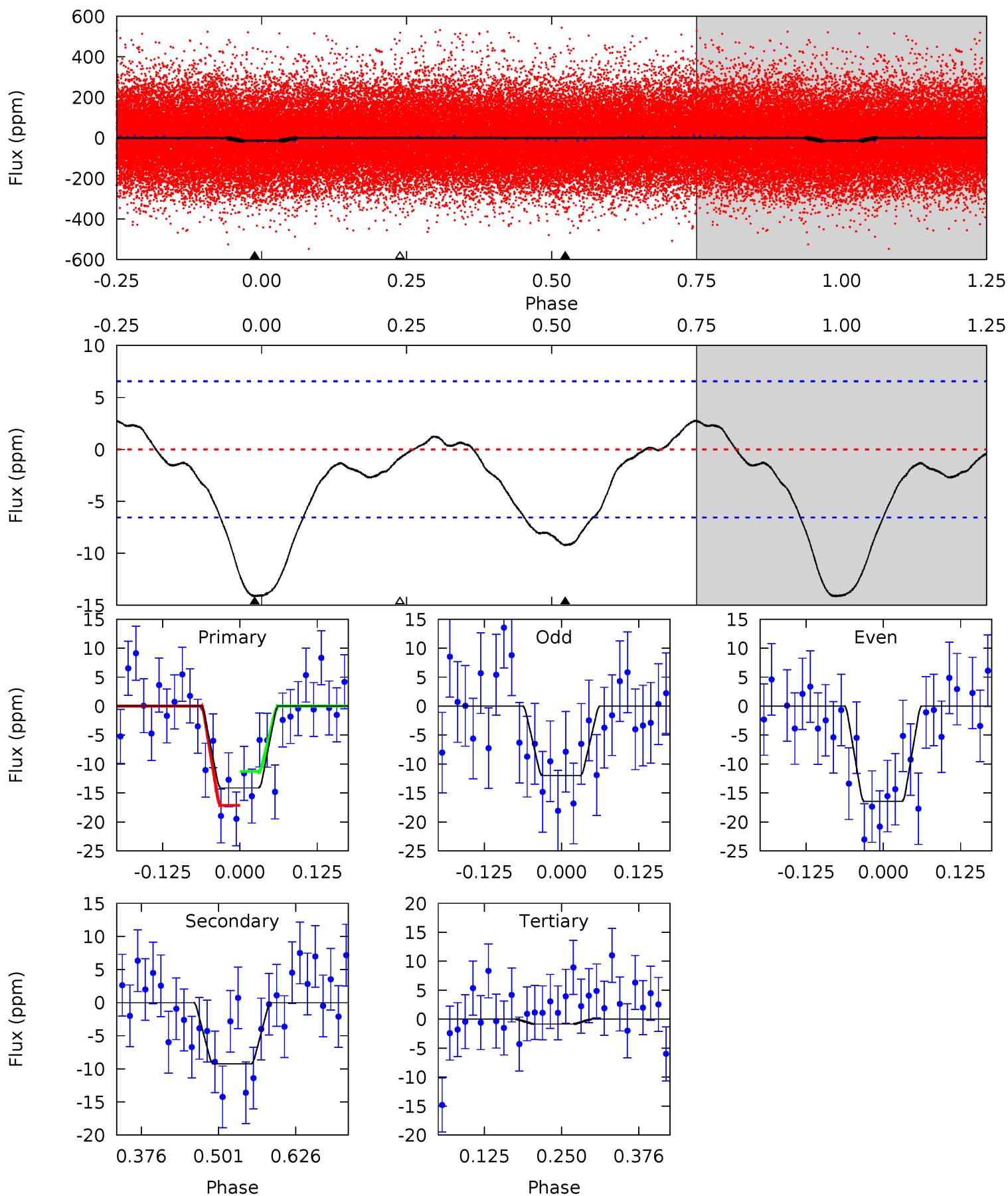
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.31	5.52	0	0	4.43	1.31	0.73	8.31	8.31	5.52	5.52	0.05	1.04	0.09	2.11



Alt Model-Shift Uniqueness Test

008265269-01, P = 0.779936 Days, E = 131.410909 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.74	6.36	0.58	0	4.52	1.53	1.05	9.16	9.74	5.78	6.36	1.53	0.99	0.16	2.01



Stellar Parameters For KIC 008265269

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6807^{+165}_{-283}	$4.278^{+0.090}_{-0.210}$	$-0.080^{+0.250}_{-0.350}$	$1.379^{+0.469}_{-0.201}$	$1.321^{+0.204}_{-0.204}$	$0.710^{+0.336}_{-0.360}$
	+2%/-4%	+2%/-5%	+312%/-438%	+34%/-15%	+15%/-15%	+47%/-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 008265269-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-7 ± 1	$0.57^{+0.27}_{-0.24}$	3704^{+299}_{-238}	5517^{+1913}_{-940}	$3.602^{+7.141}_{-1.960}$
Alt.	-9 ± 1	$0.62^{+0.28}_{-0.22}$	3680^{+276}_{-203}	5744^{+1778}_{-899}	$4.360^{+6.289}_{-2.361}$

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

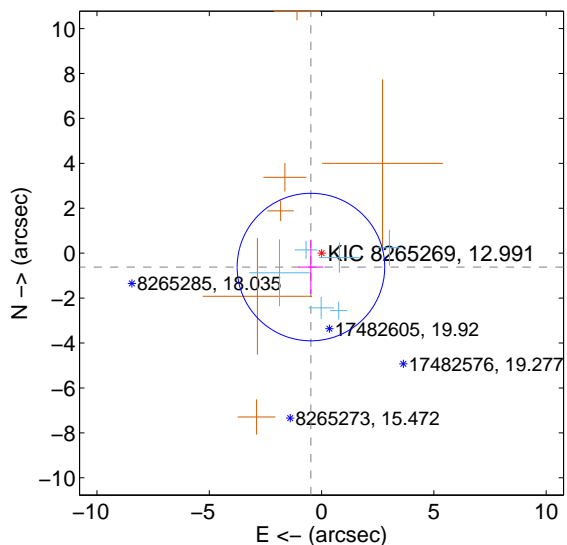
Supplemental centroid analysis for 008265269-01. Kepler magnitude: 12.99. Transit SNR 7.46

There are 6 quarters with good PRF difference image offsets

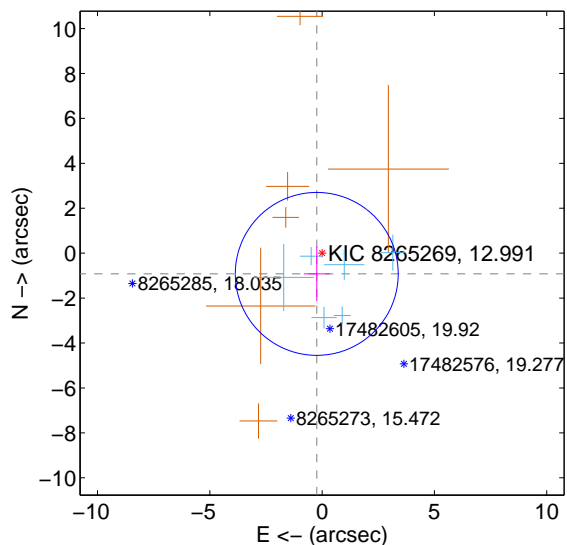
The direct PRF centroid is offset from the target star catalog position by about 0.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.779 ± 1.095	0.71	0.474 ± 0.555	-0.618 ± 1.197
PRF-fit source offset from KIC position	0.953 ± 1.209	0.79	0.238 ± 0.574	-0.922 ± 1.219
photometric centroid source offset	3.82 ± 1.72	2.22	3.76 ± 1.71	0.69 ± 1.84

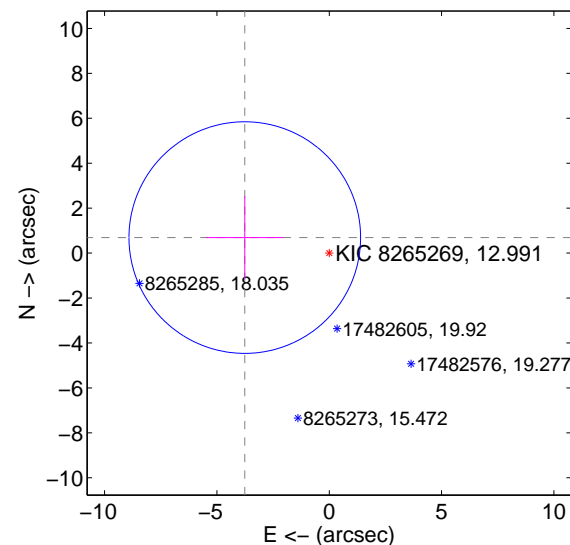
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

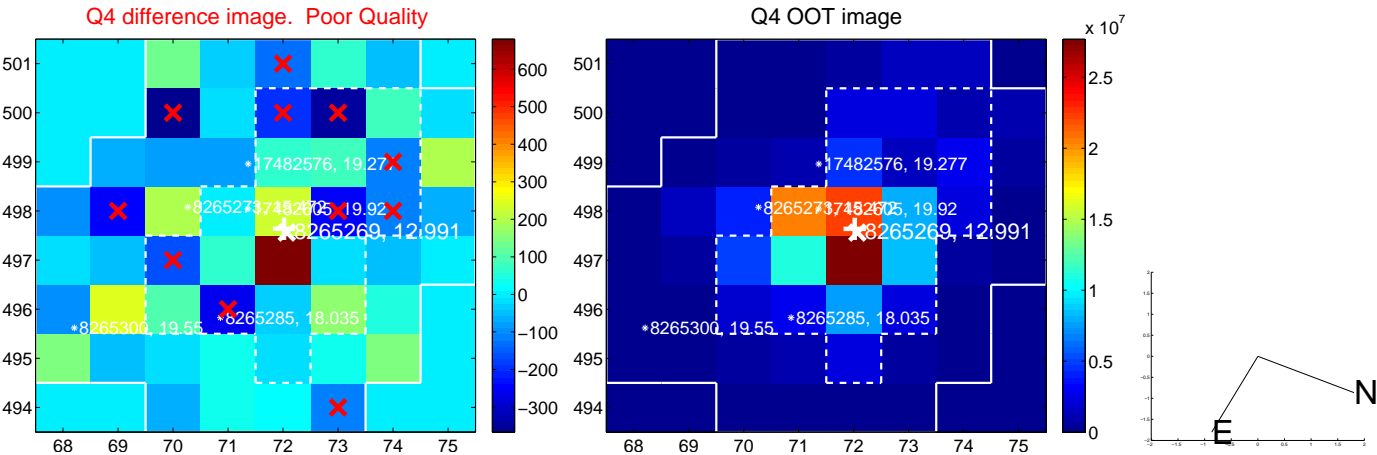
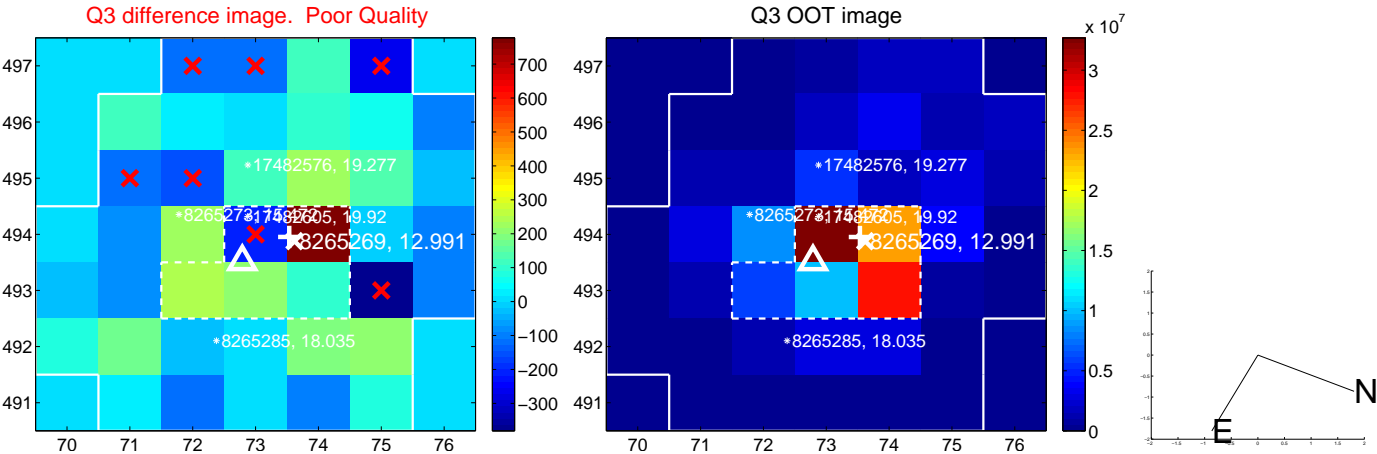
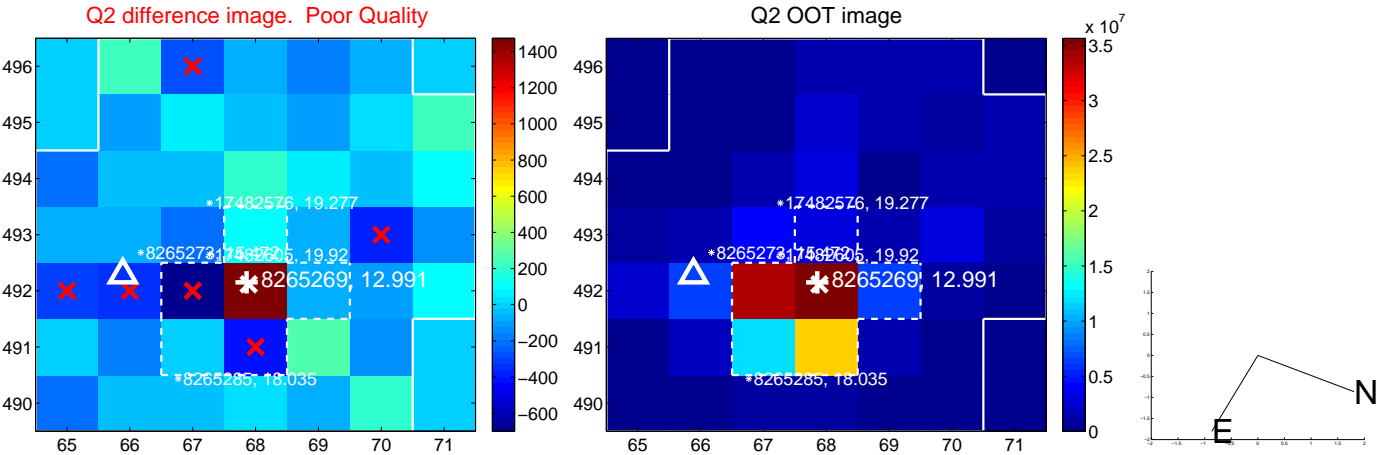
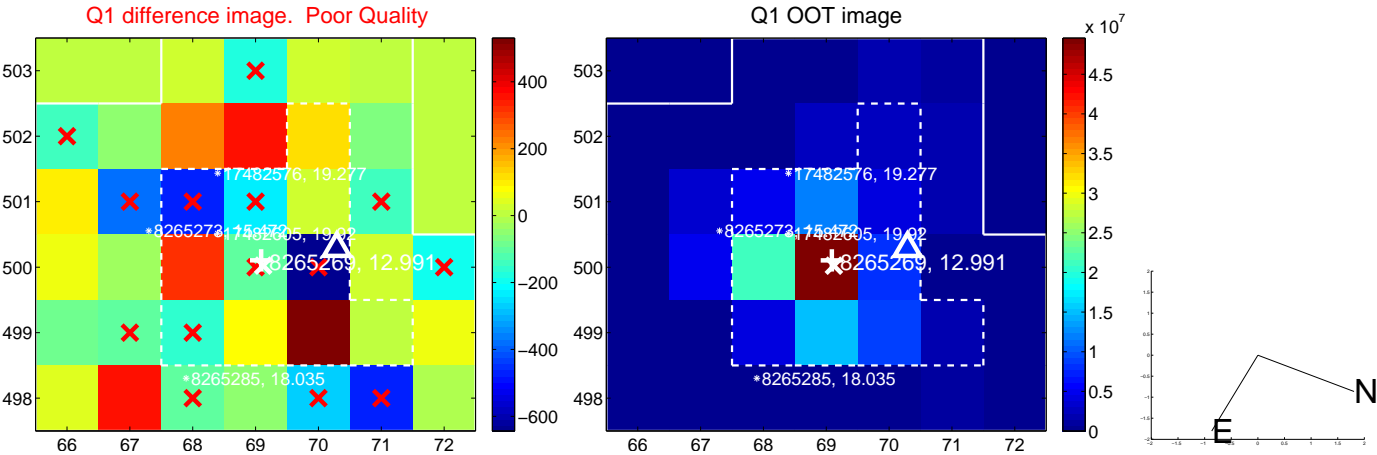


offset from photometric centroids

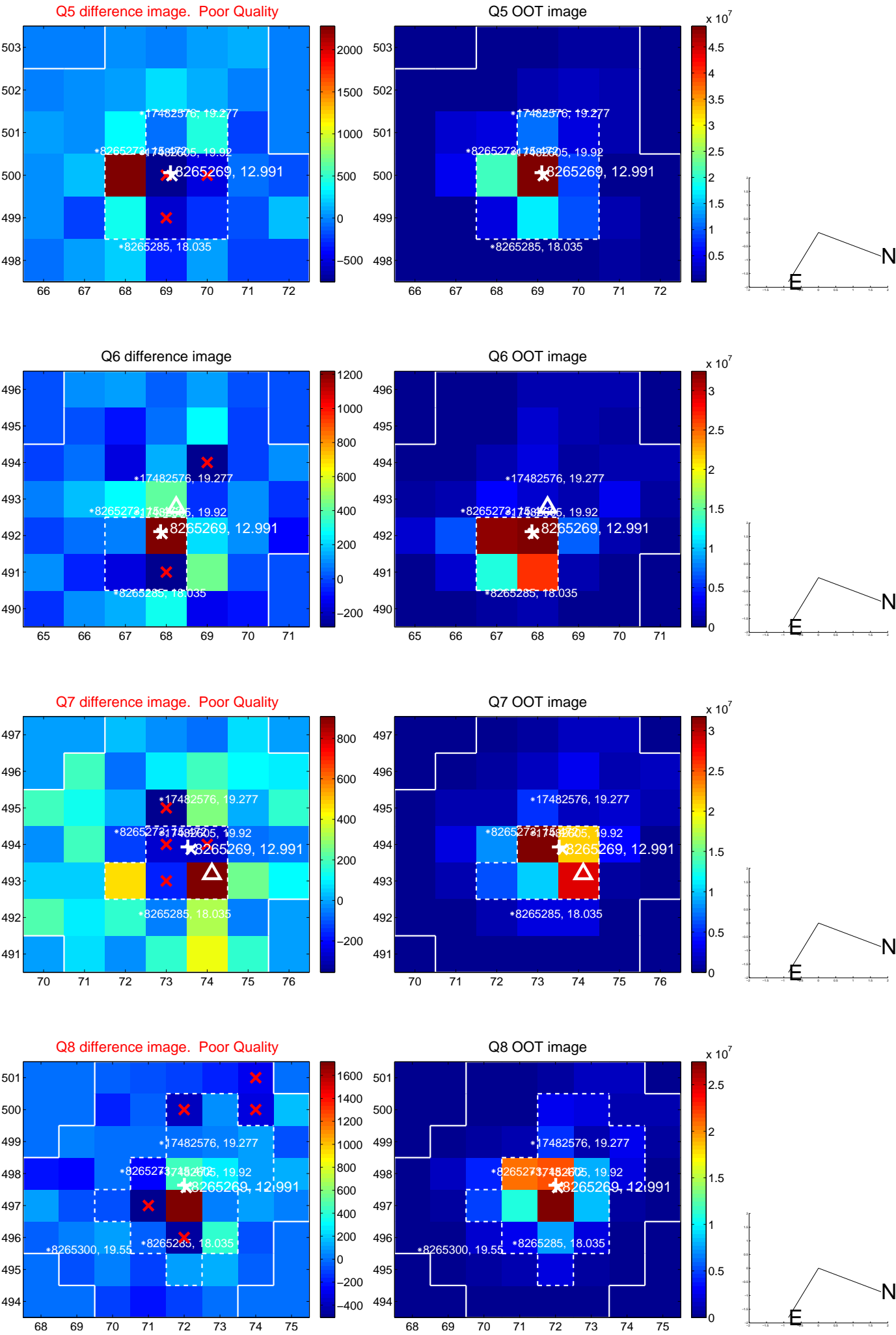


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

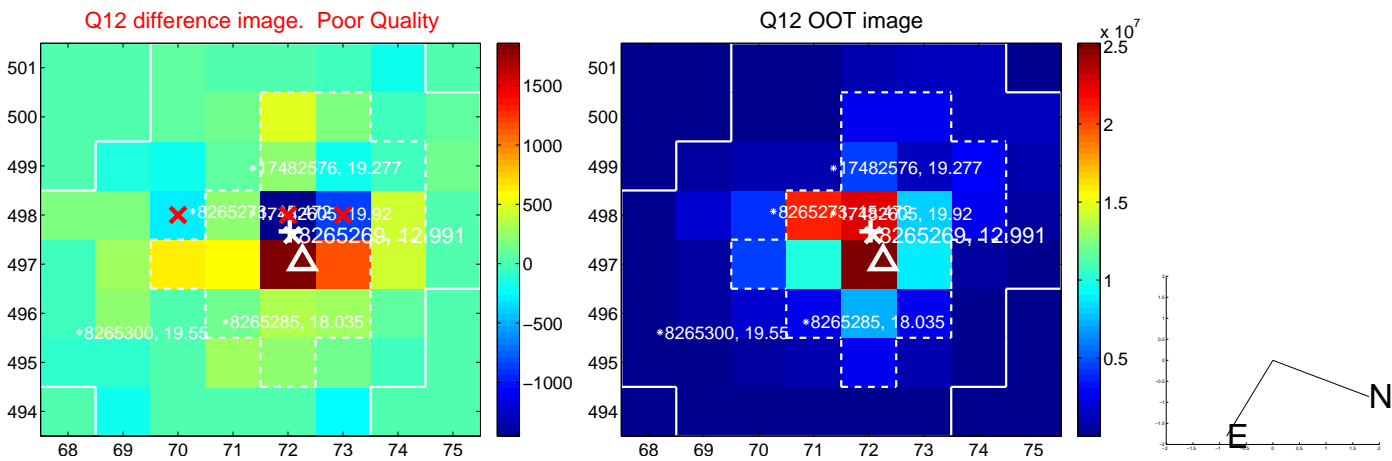
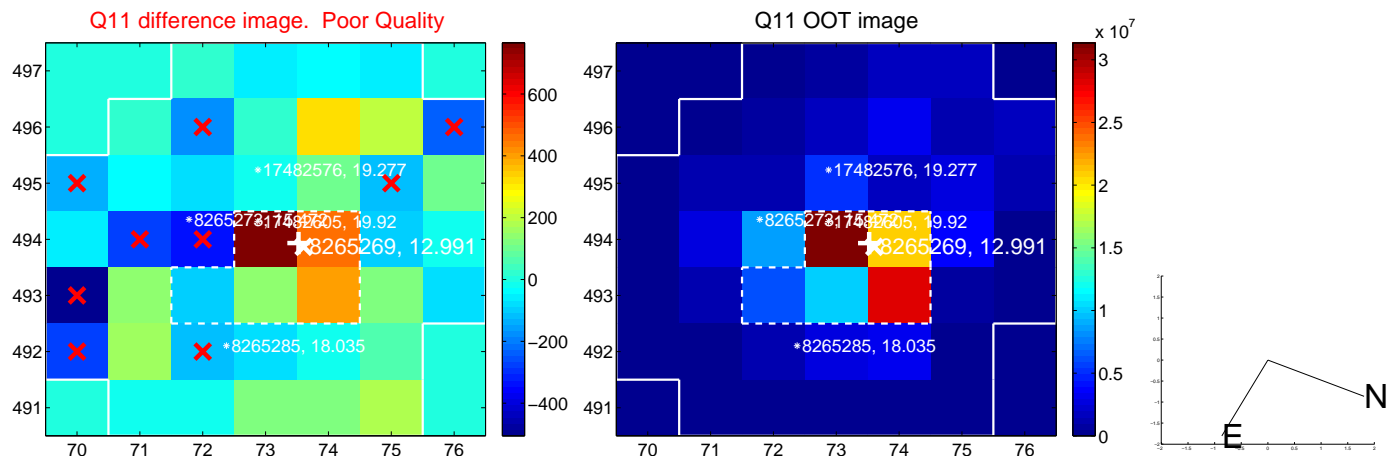
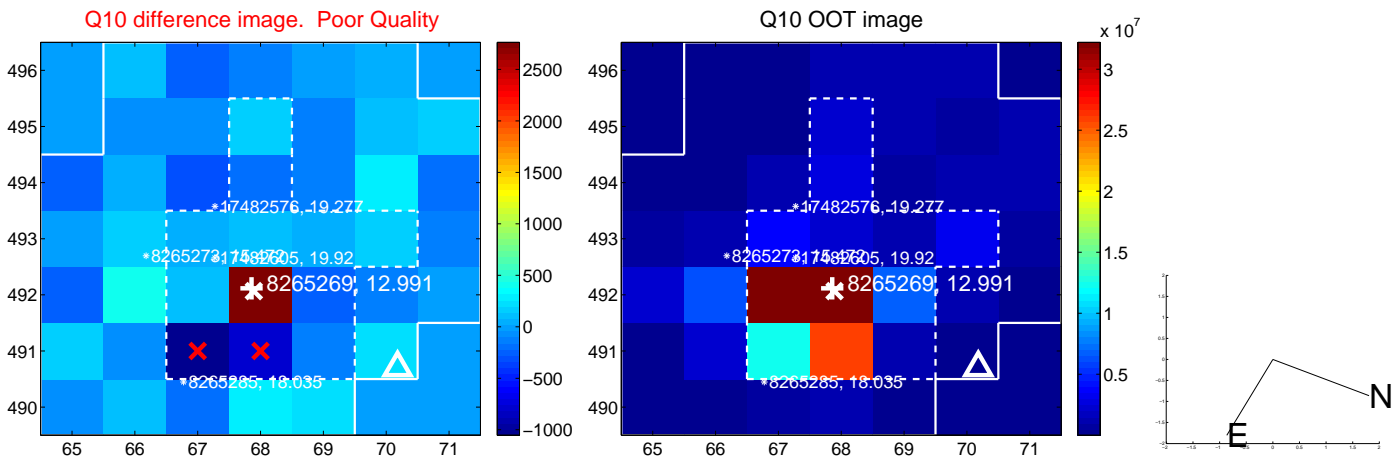
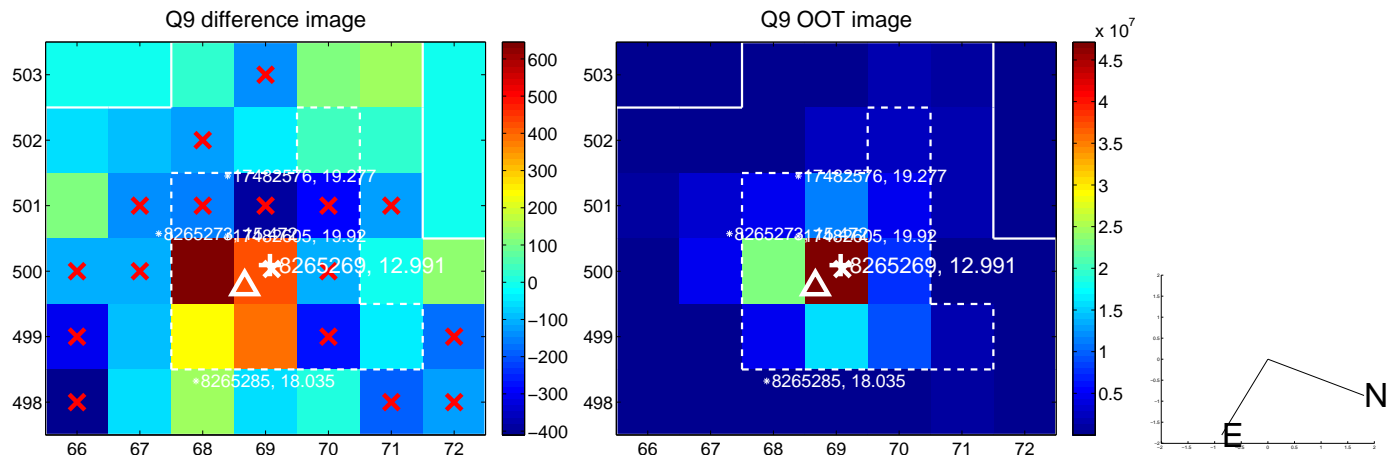
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



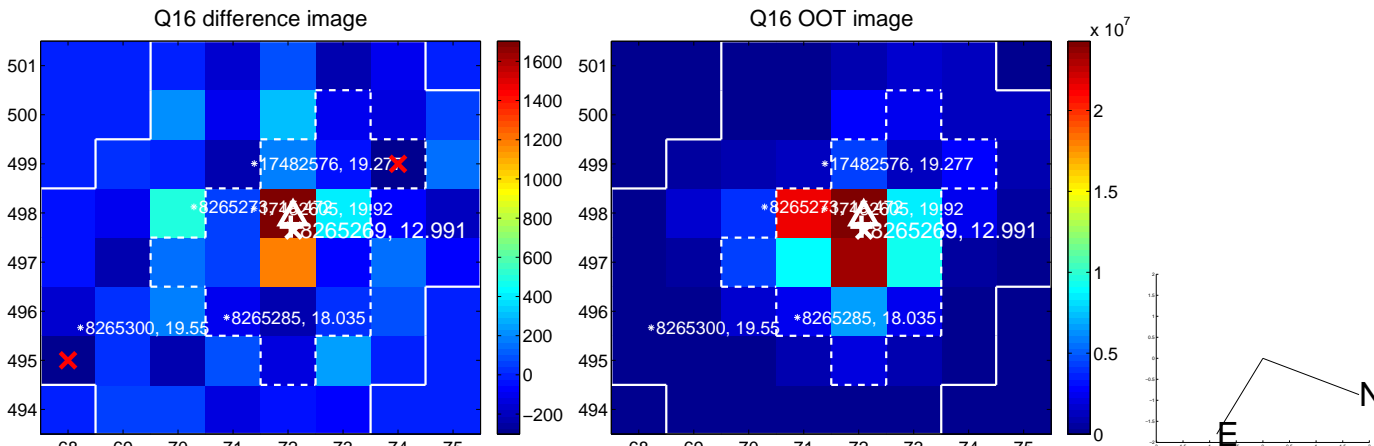
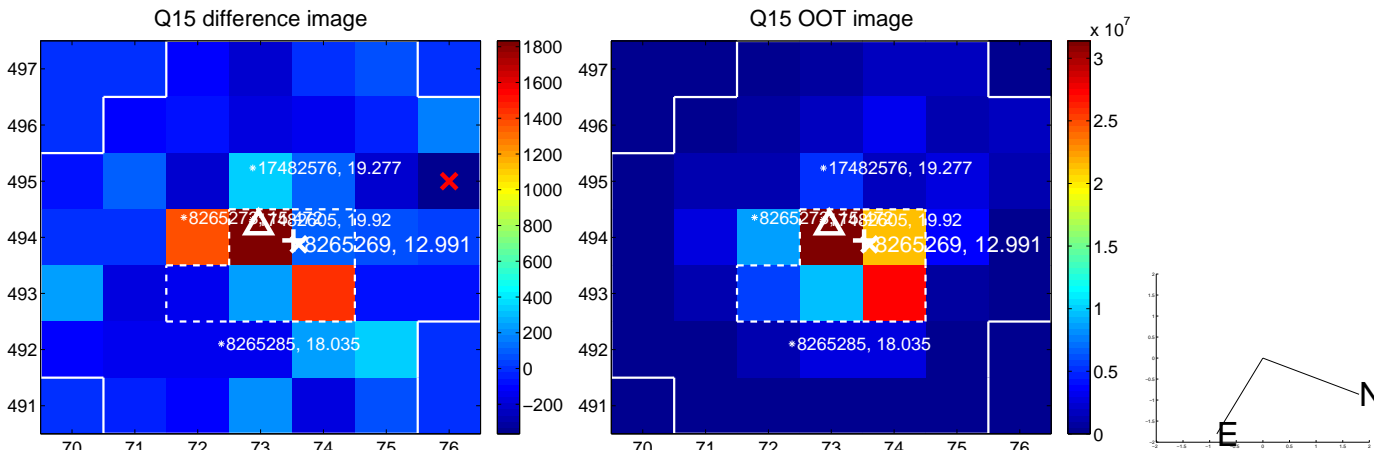
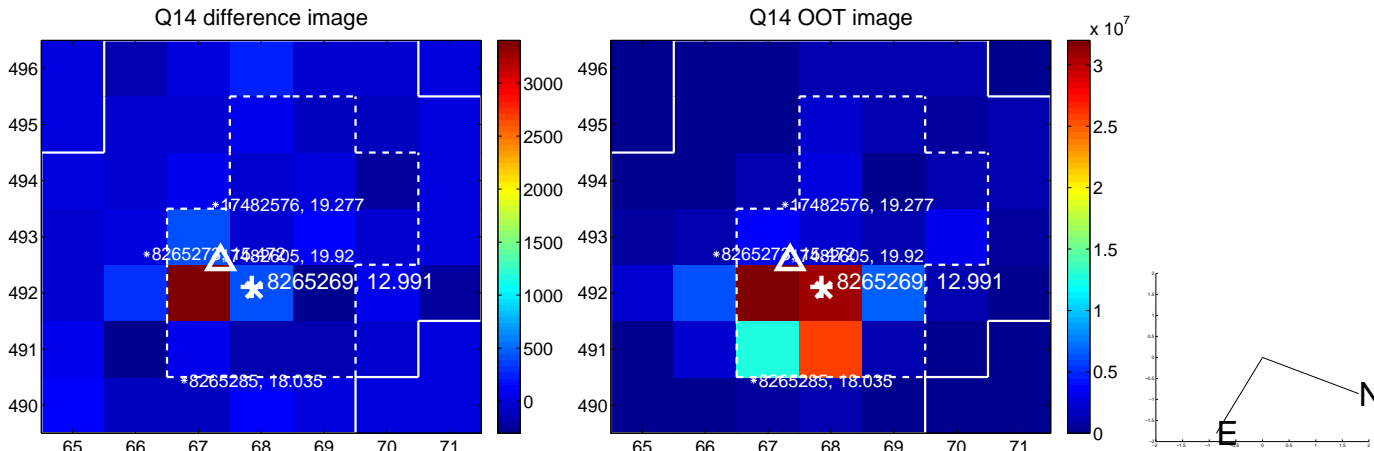
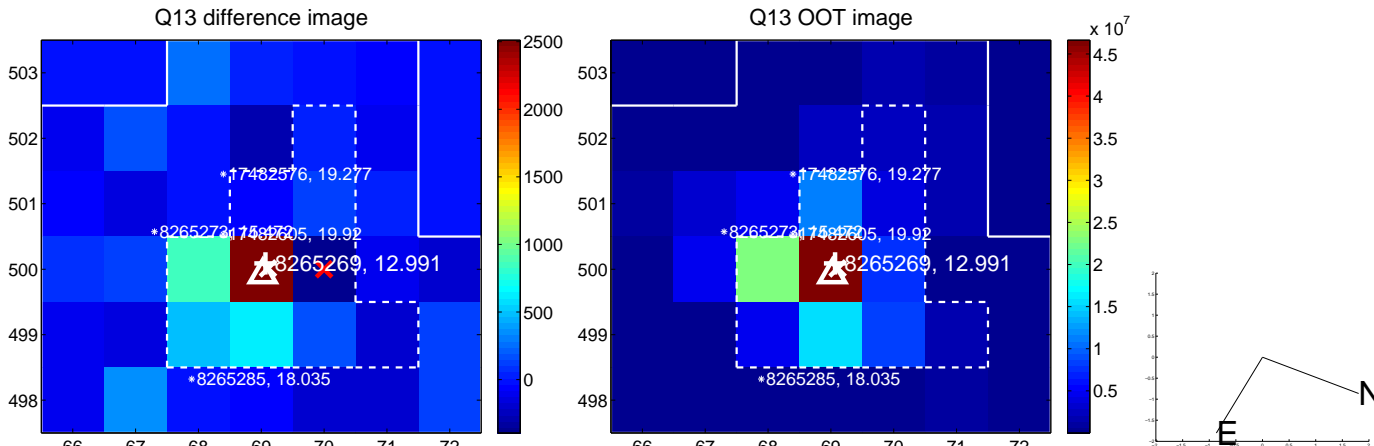
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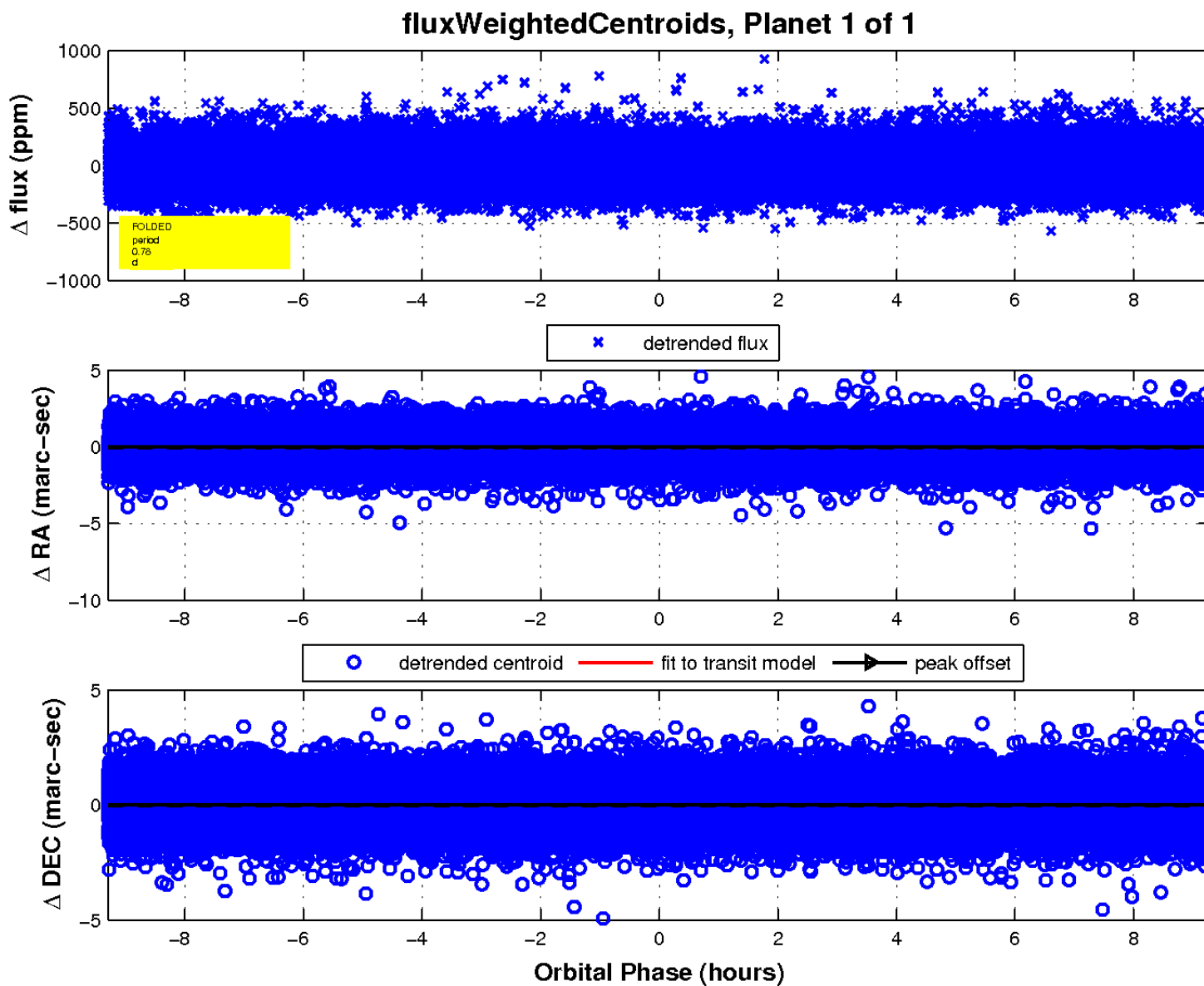
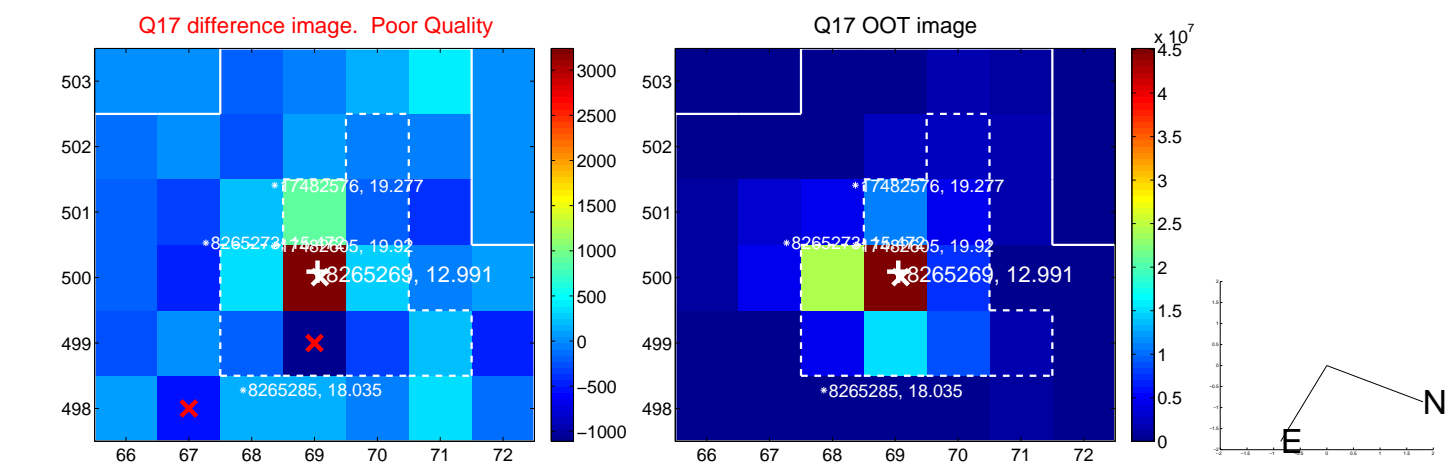
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UKIRT Image

Declination

