

KIC 011289905

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})
011289905-01	OBS	No	0.904343	131.538900	0.0	3.895	7.9	0.0	1.53	7305	0.00	14077.84

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011289905-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT

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

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

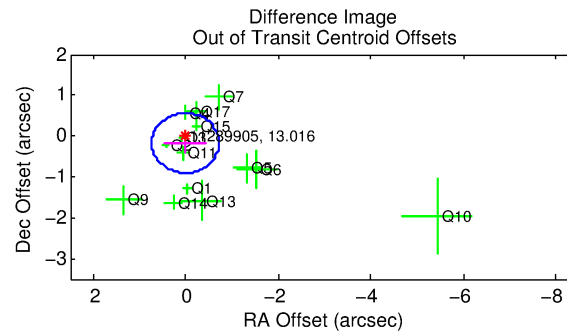
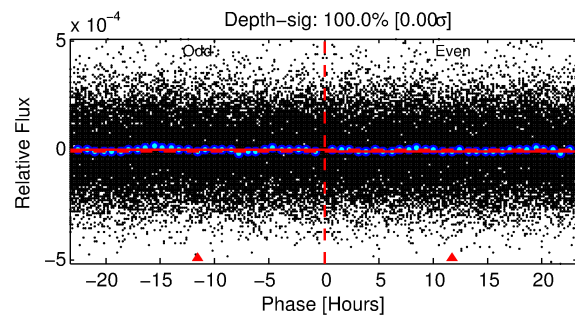
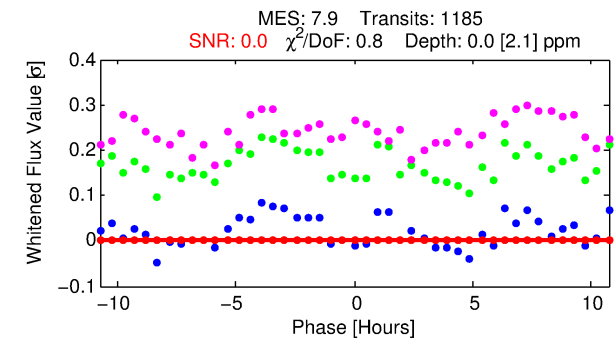
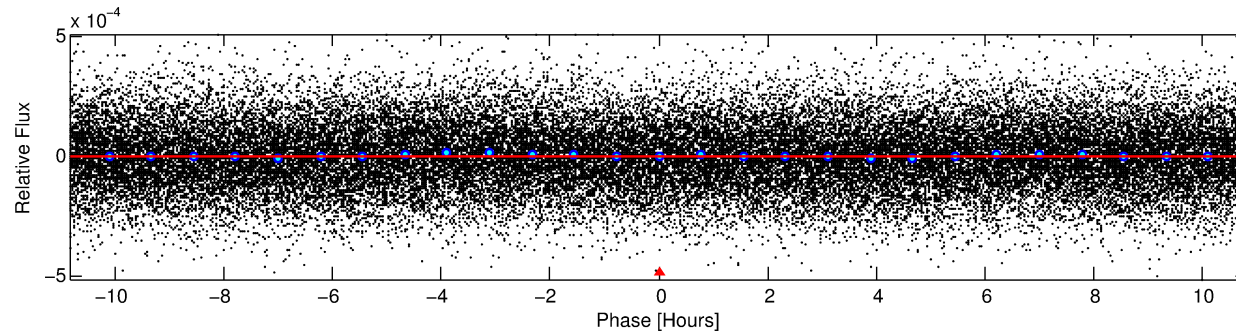
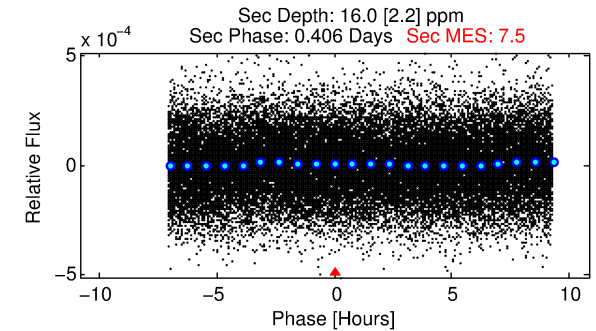
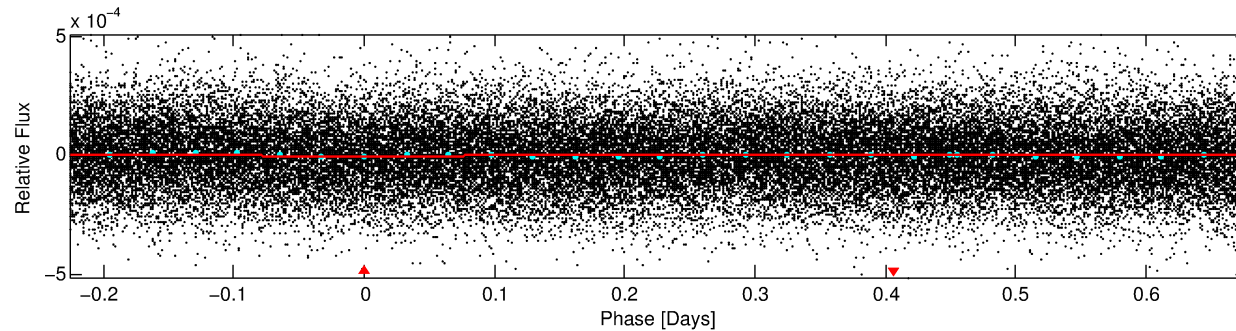
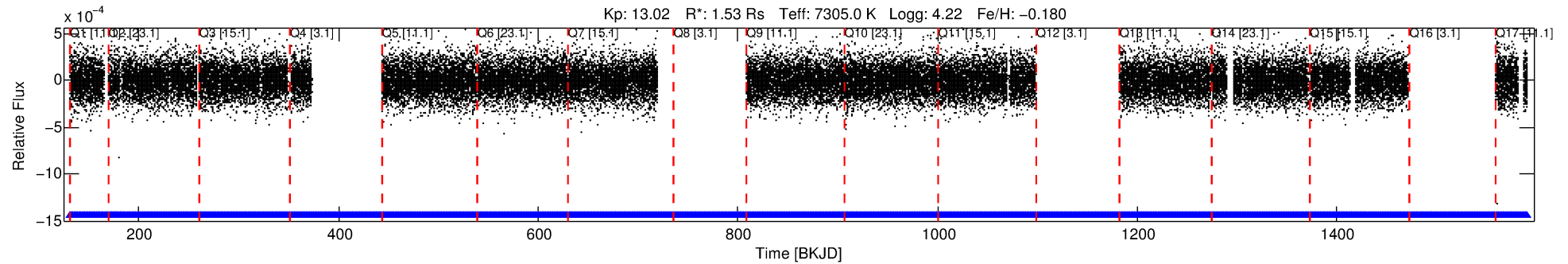
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011289905-01

No Significant Match Found

DV One-Page Summary

KIC: 11289905 Candidate: 1 of 1 Period: 0.904 d



DV Fit Results:

Period = 0.90434 [0.77197] d
Epoch = 131.5389 [249.1144] BKJD
Rp/R* = 0.0000 [0.0601]
a/R* = 1.66 [373.95]
b = 0.55 [1164.03]
Seff = 14077.84 [17020.69]
Teq = 2778 [840] K
Rp = 0.00 [10.03] Re
a = 0.0206 [0.0129] AU
Ag = 494118.21 [3604296322.80] [0.00σ]
Teffp = 113857 [207645109] K [0.00σ]

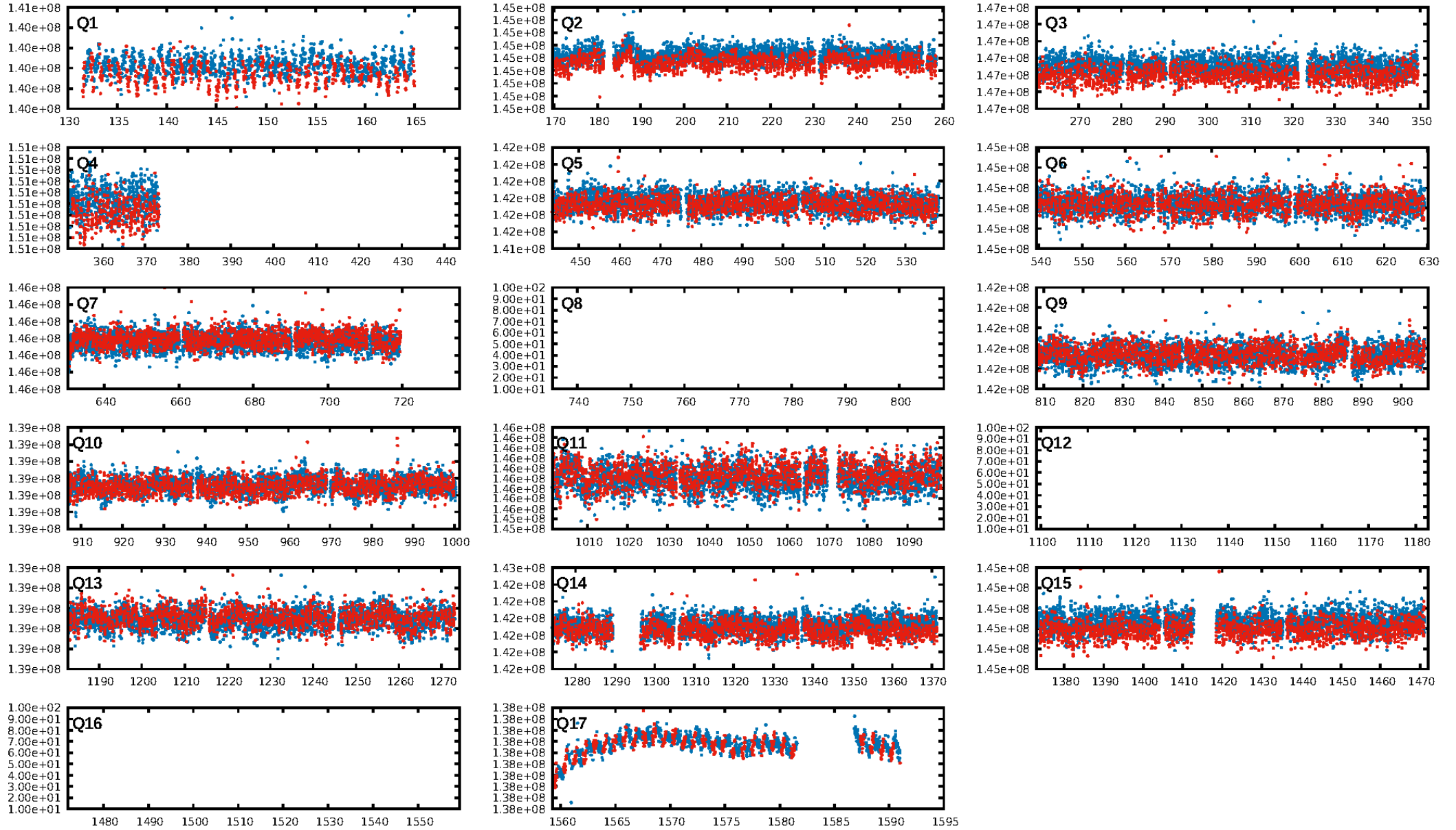
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.10e-12
RollingBand-fgt: 1.00 [1095/1095]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
QofOffset-rm: 0.174 arcsec [0.72σ]
KicOffset-rm: 0.240 arcsec [0.91σ]
QofOffset-st: 4/4/1/5 [14]
KicOffset-st: 4/4/1/5 [14]
DiffImageQuality-fgm: 0.64 [9/14]
DiffImageOverlap-fno: 1.00 [14/14]

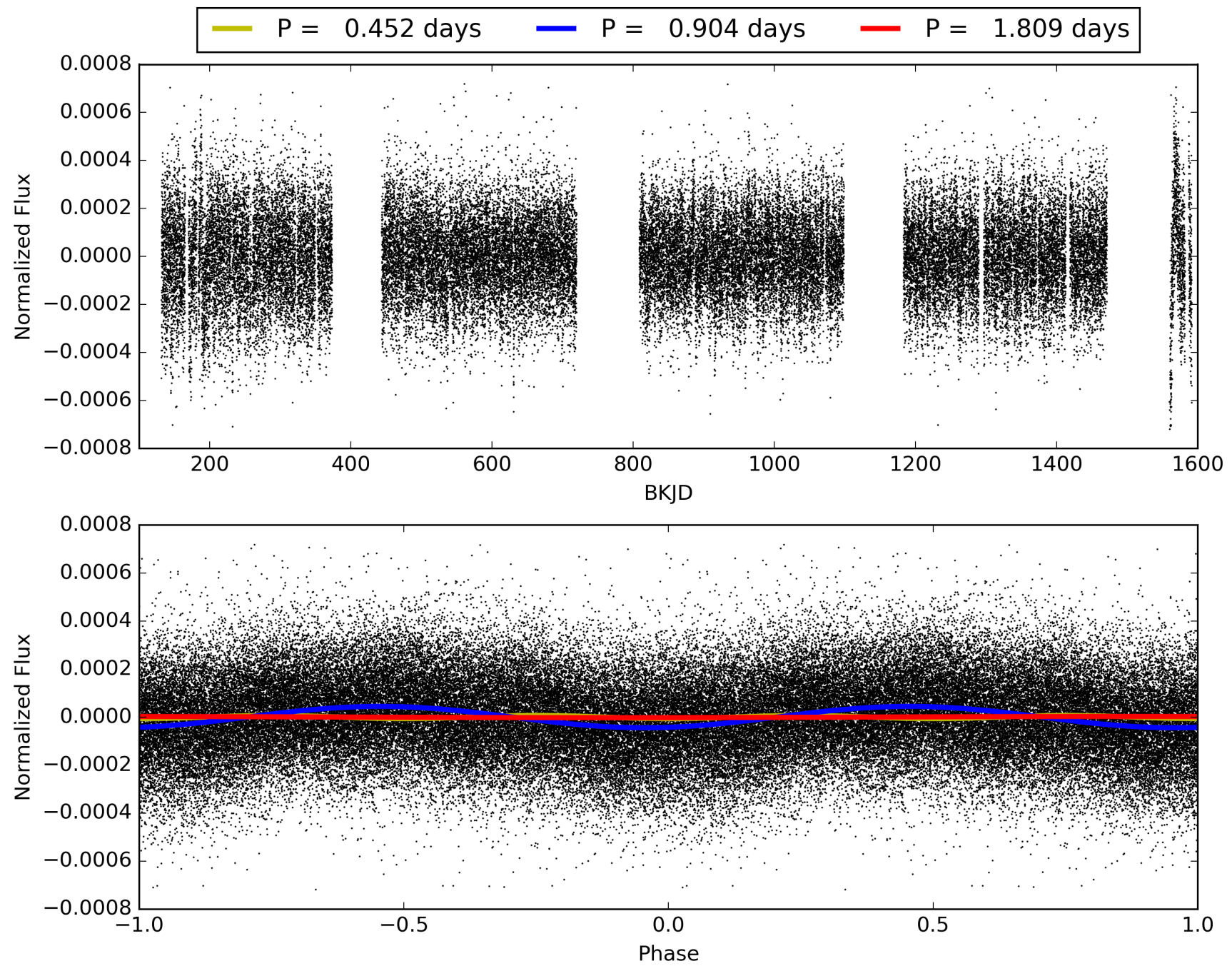
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 28-Jan-2016 22:51:36 Z

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

TCE 011289905-01, PDC Light Curves

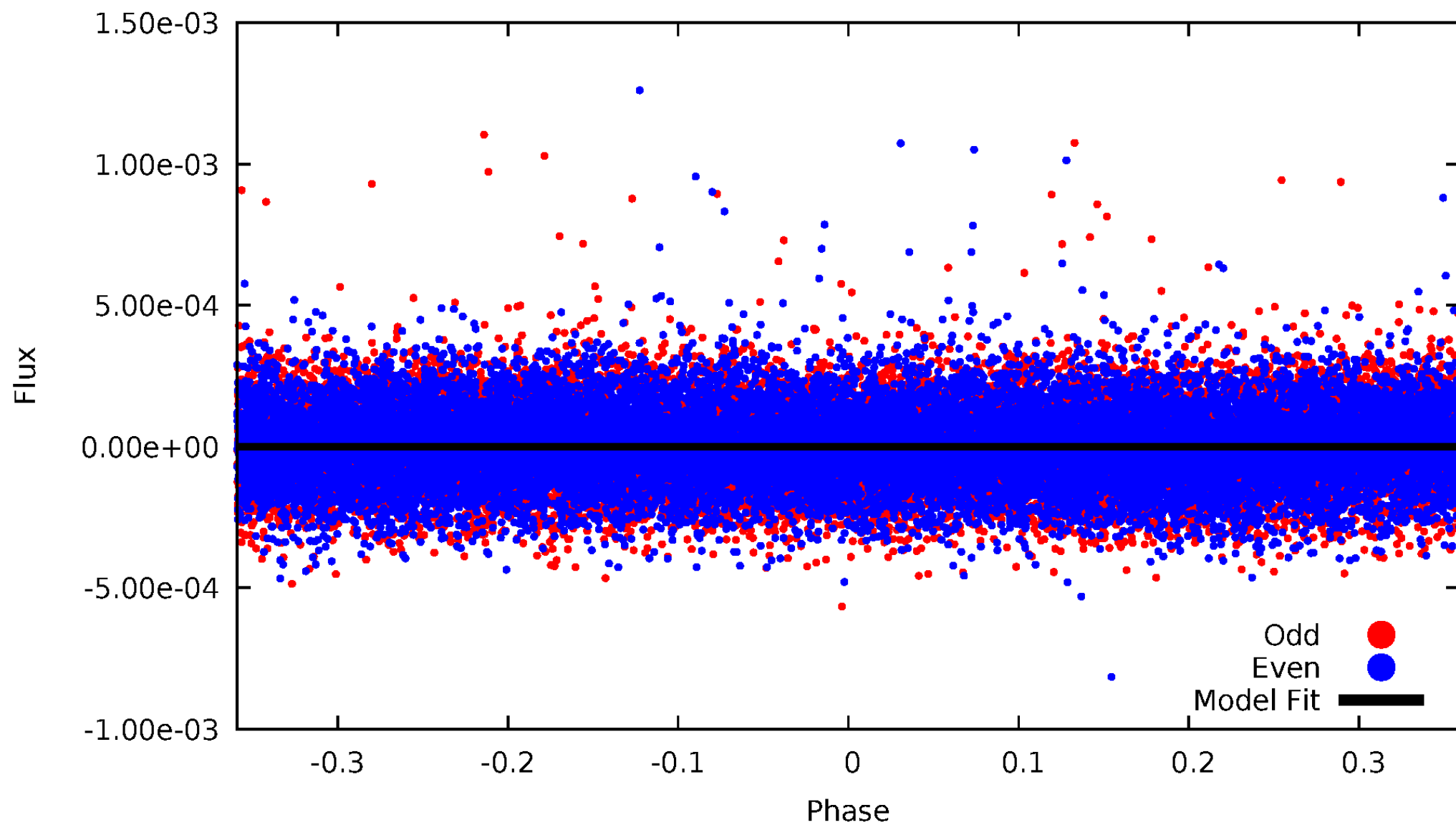


TCE 011289905-01



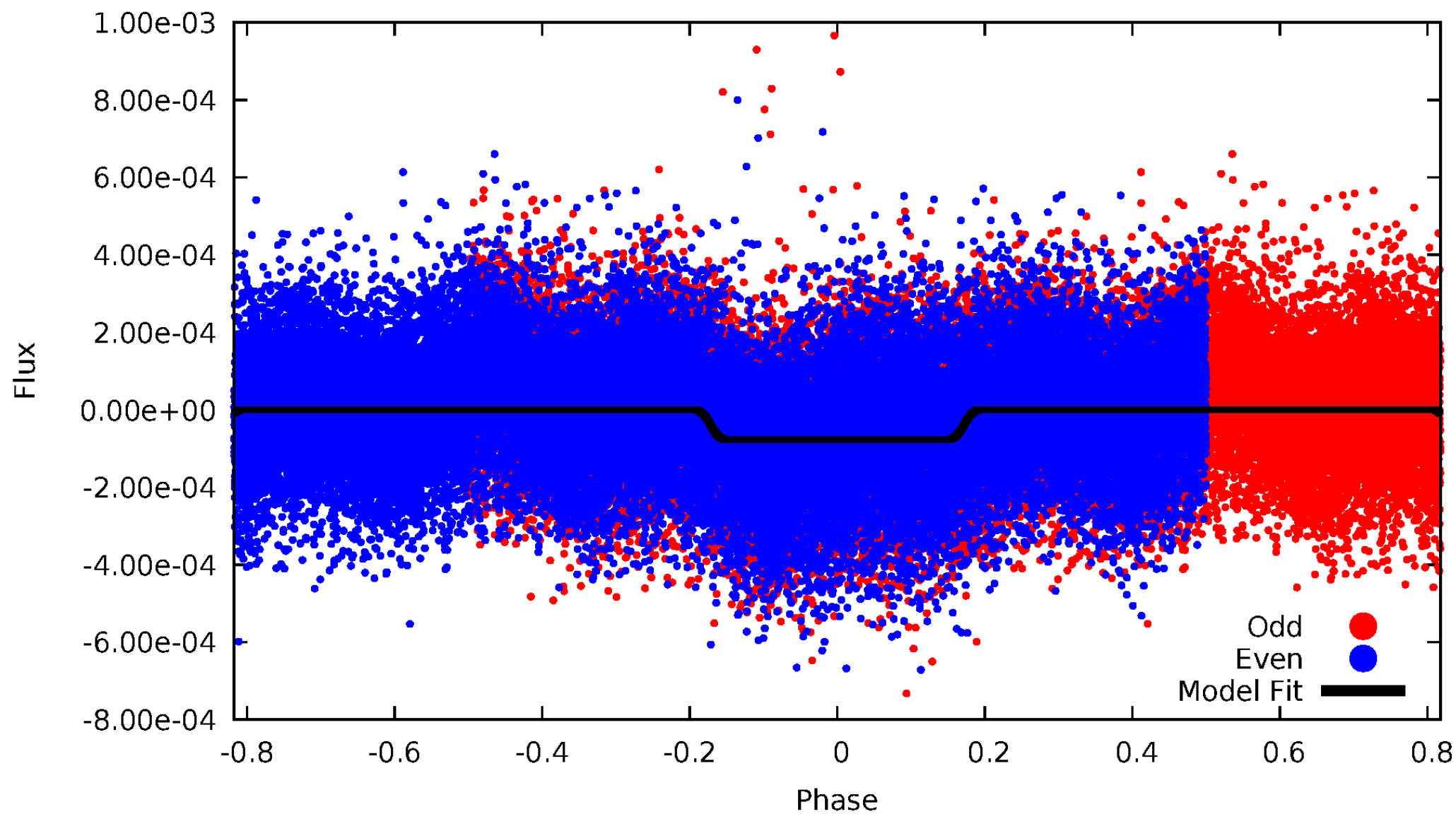
DV Odd/Even

TCE 011289905-01

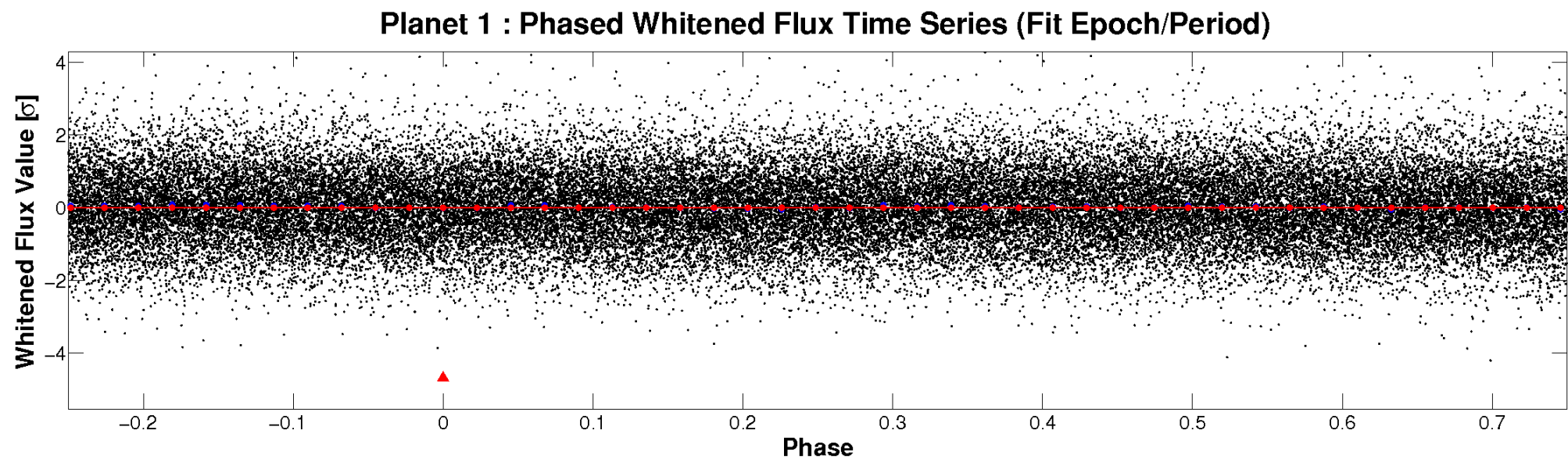
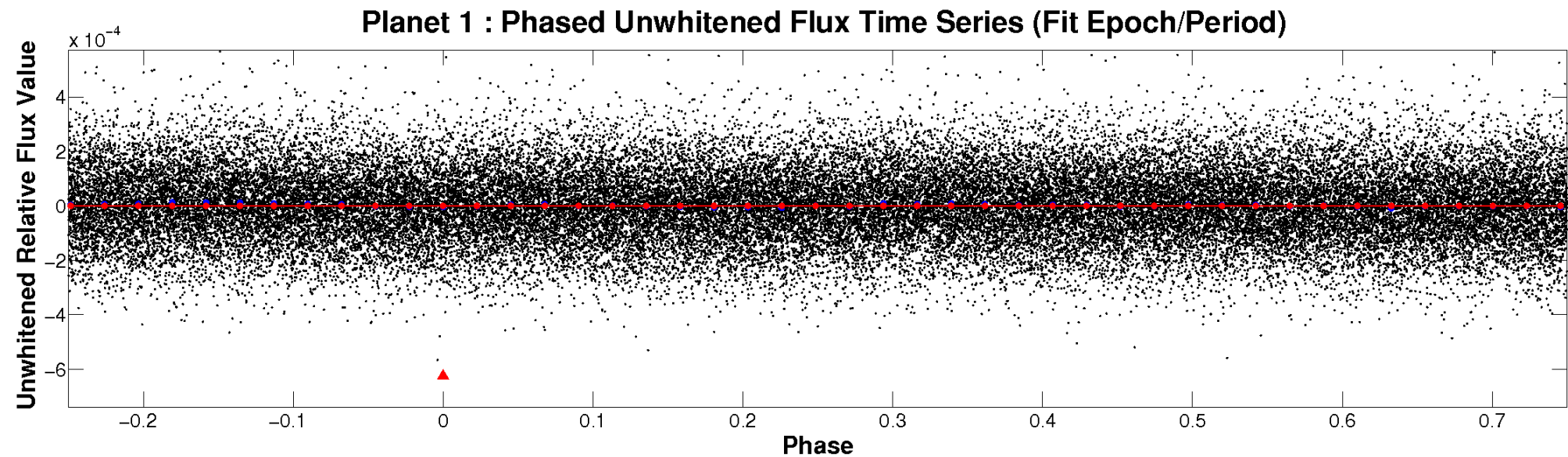


ALT Odd/Even

TCE 011289905-01

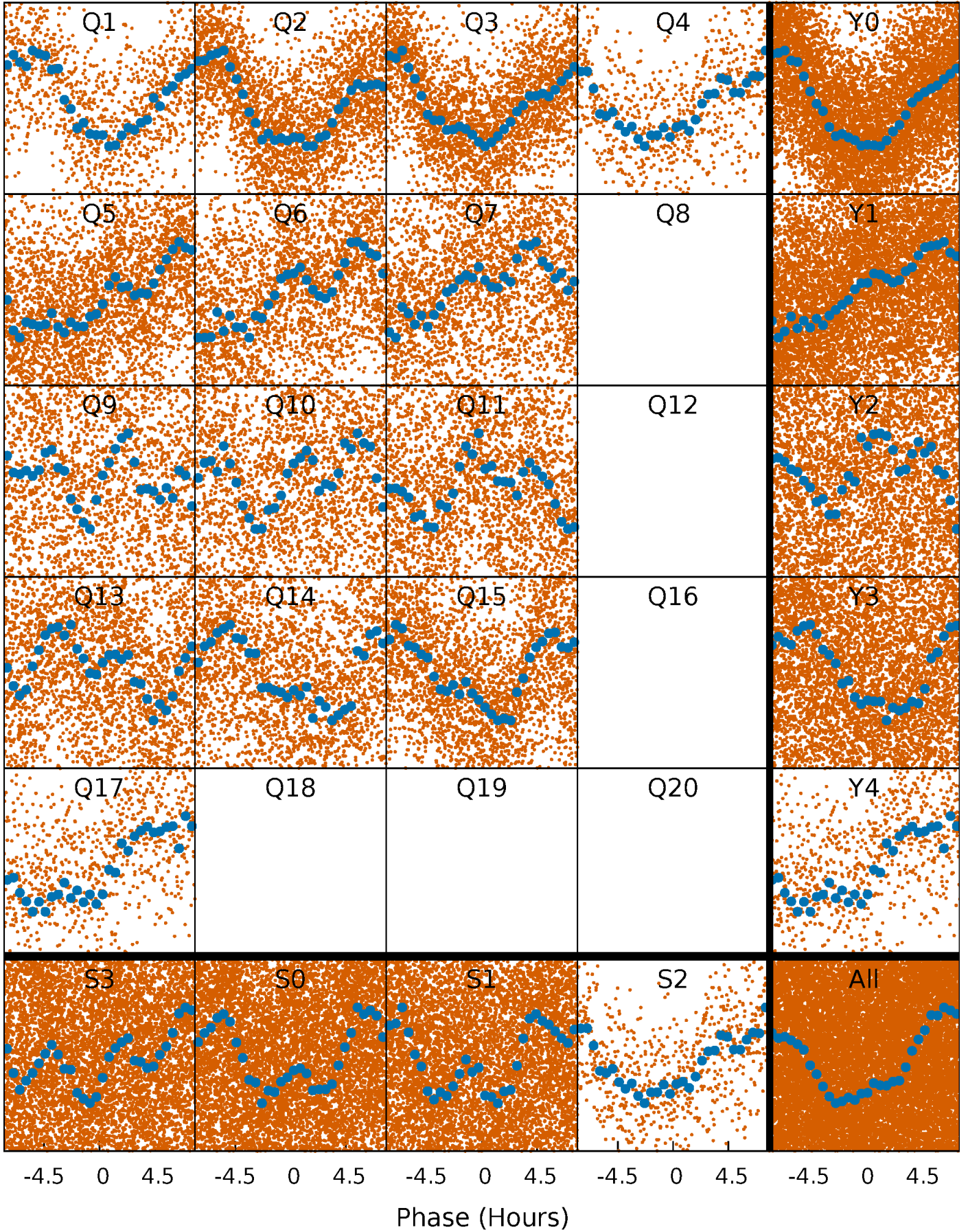


Non-Whitened Vs. Whitened Light Curve



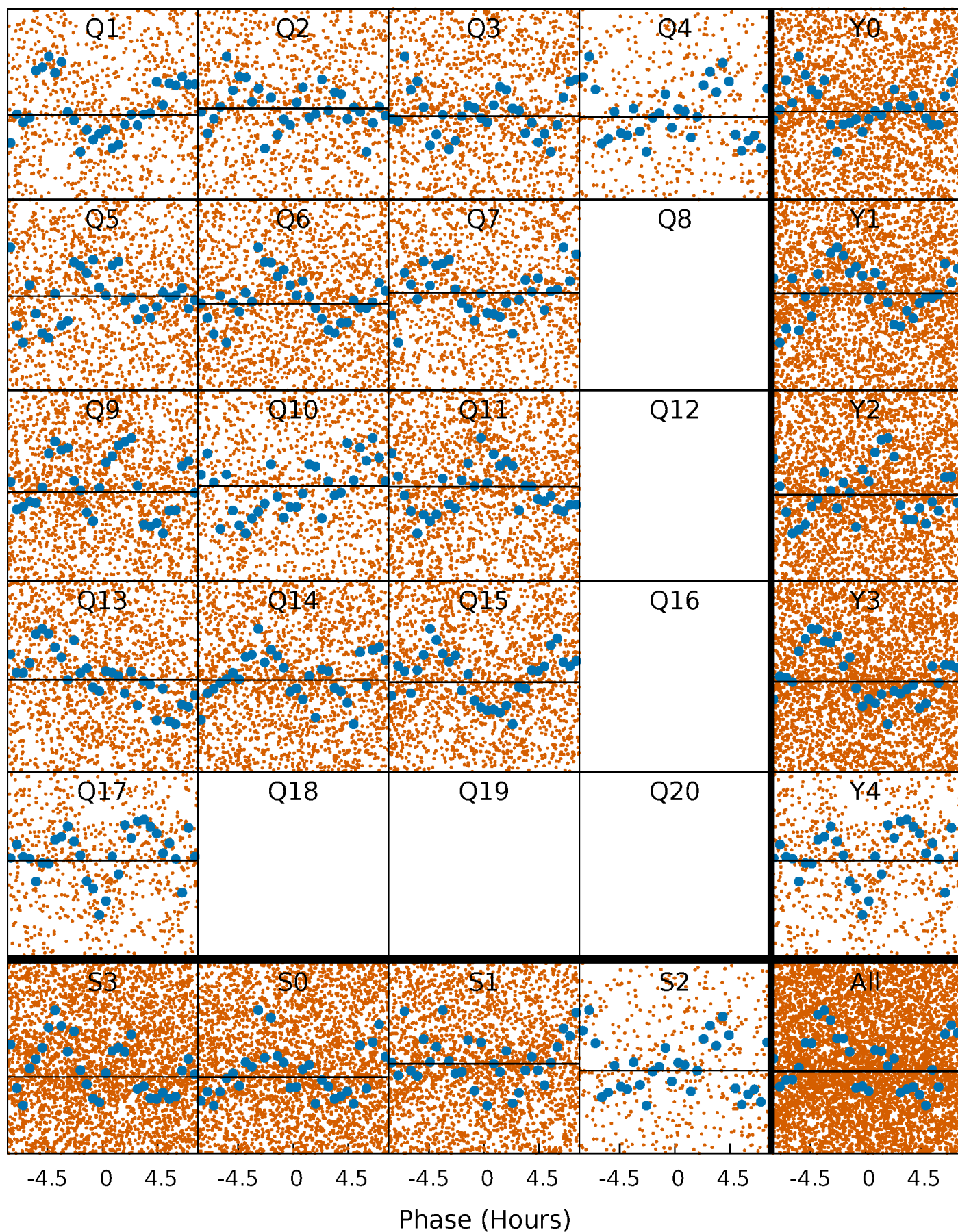
PDC Quarter-Phased Transit Curves

TCE 011289905-01 P= 0.904343 Days $T_0=131.538900$ (BKJD)



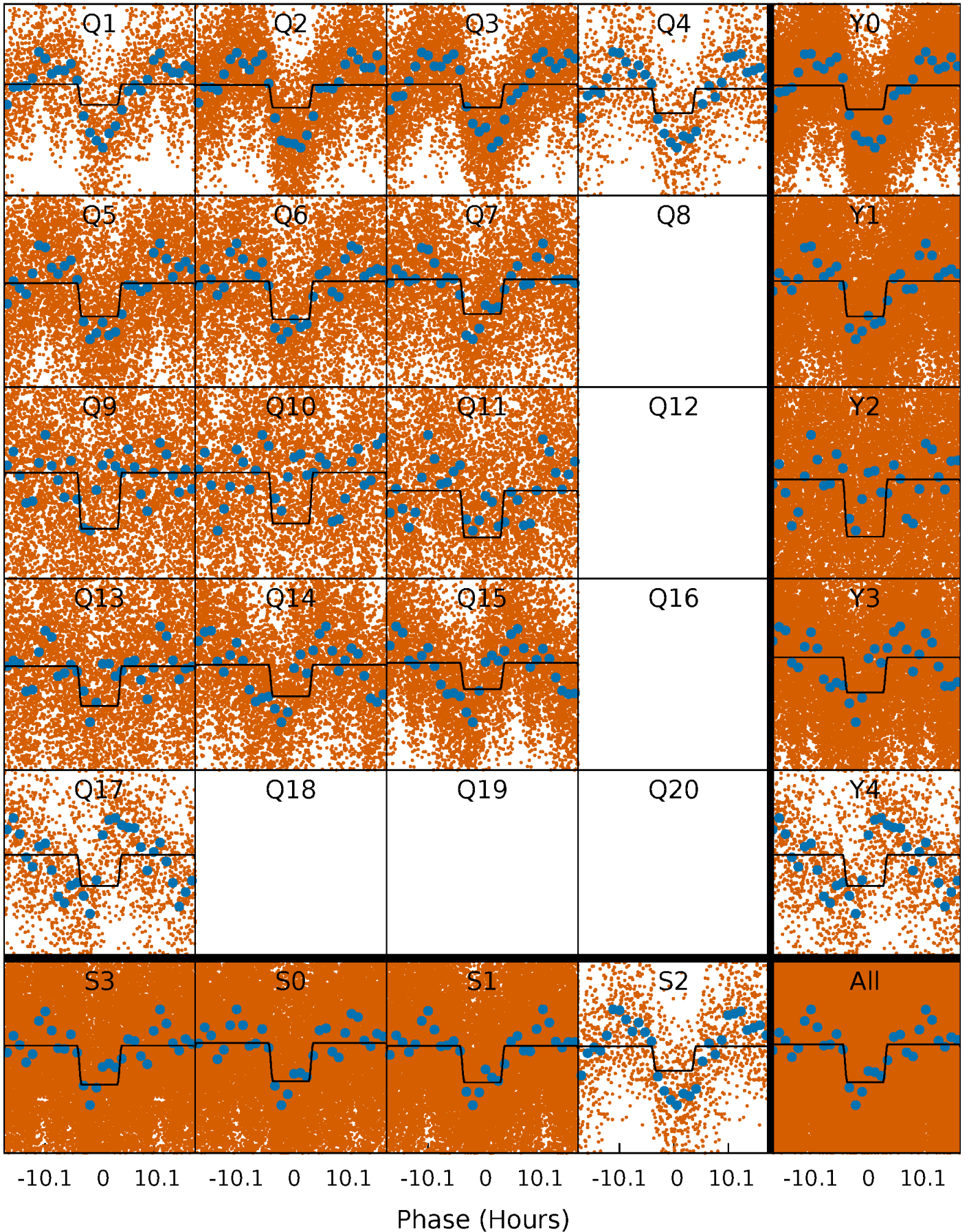
DV Quarter-Phased Transit Curves

TCE 011289905-01 P= 0.904343 Days $T_0=131.538900$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

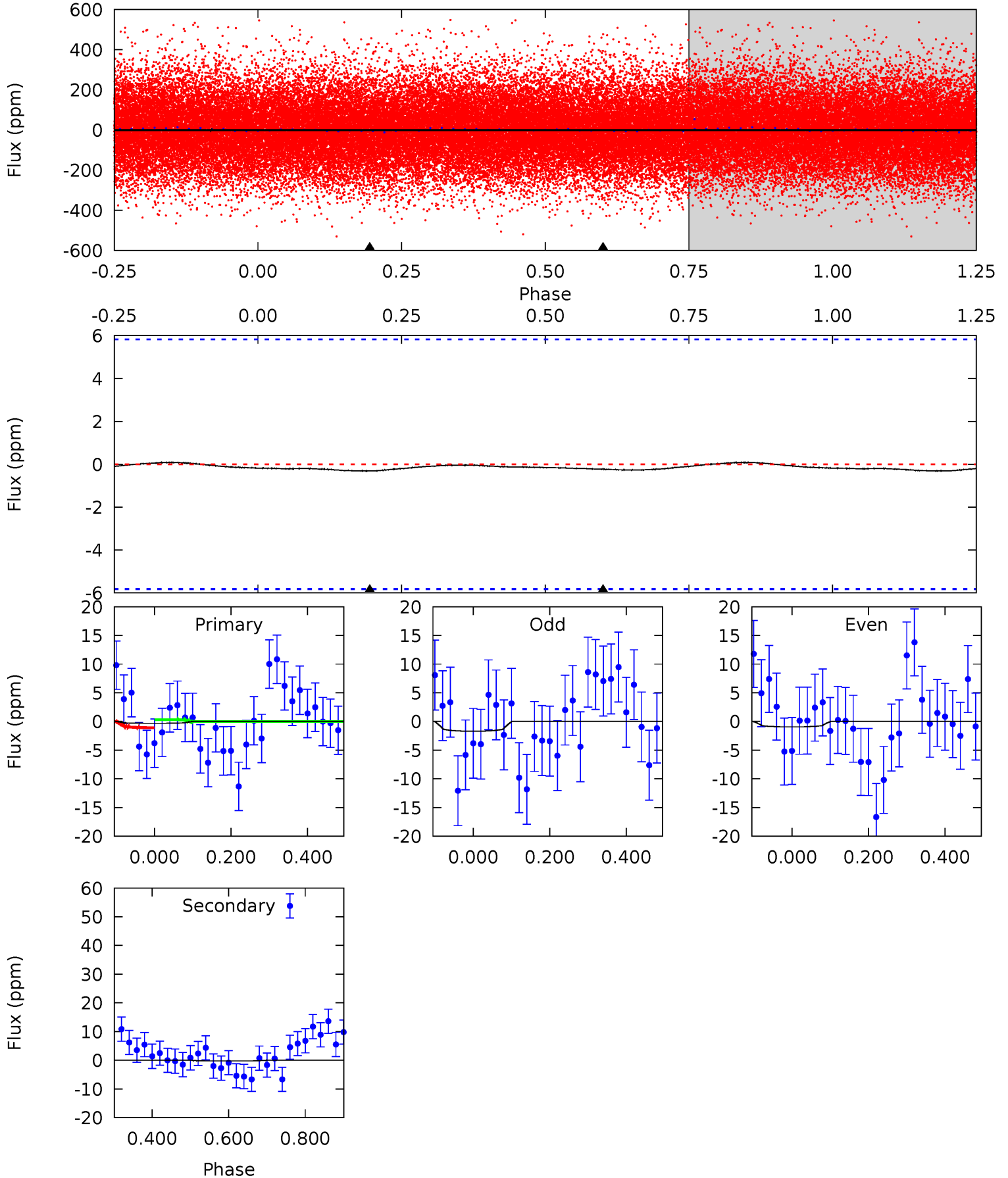
TCE 011289905-01 P= 0.903796 Days $T_0=131.572307$ (BKJD)



DV Model-Shift Uniqueness Test

011289905-01, P = 0.904343 Days, E = 130.634557 Days

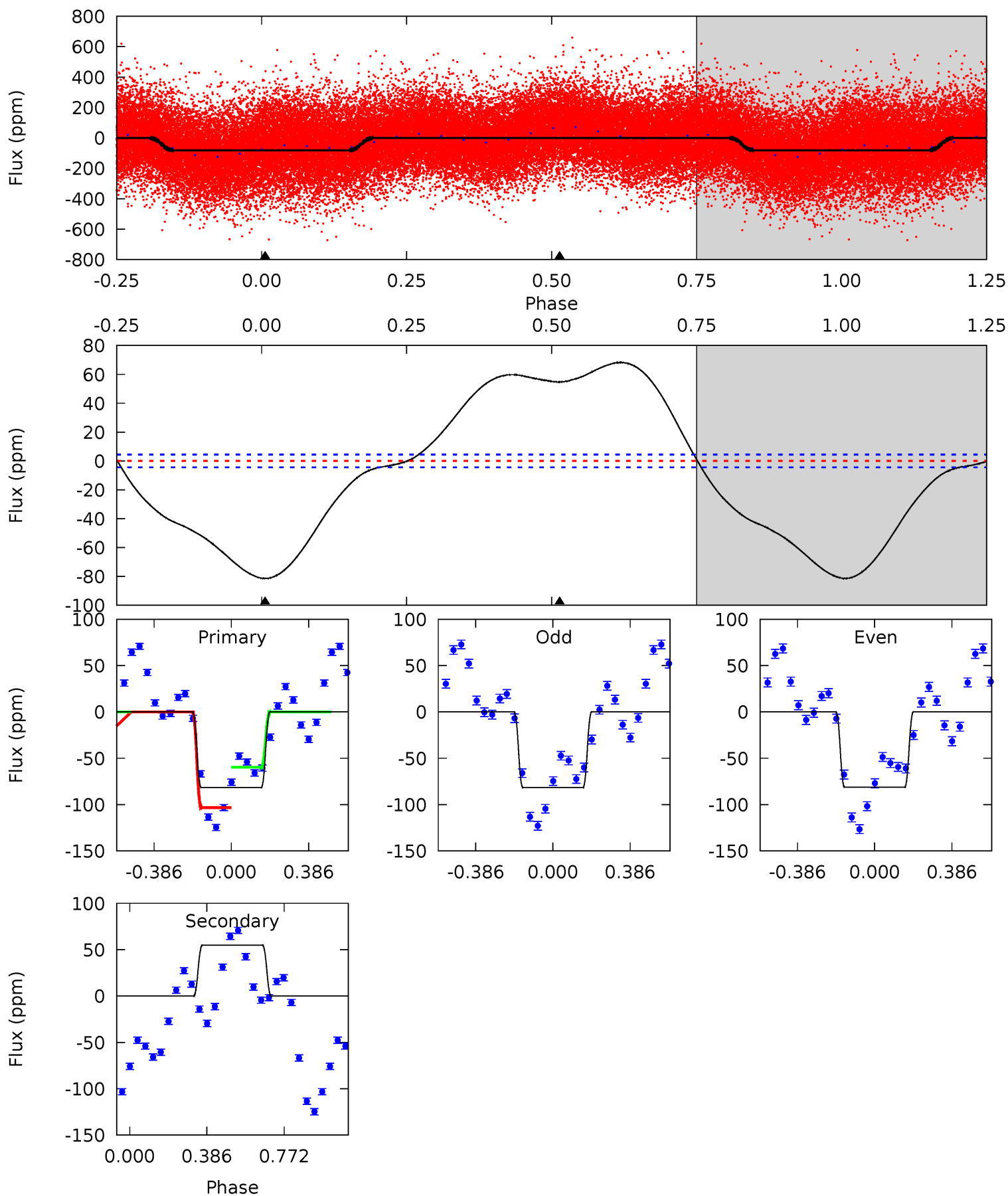
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.24	0.18	0	0	4.42	1.28	0.07	0.24	0.24	0.18	0.18	0.29	20.1	0.21	0.30



Alt Model-Shift Uniqueness Test

011289905-01, P = 0.903796 Days, E = 130.668511 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
78.5	-52.8	0	0	4.27	0.87	7.11	78.5	78.5	-52.8	-52.8	0.23	1.02	0.46	21.0



Stellar Parameters For KIC 011289905

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7305^{+203}_{-304}	$4.222^{+0.105}_{-0.195}$	$-0.180^{+0.250}_{-0.350}$	$1.529^{+0.508}_{-0.235}$	$1.427^{+0.219}_{-0.219}$	$0.562^{+0.281}_{-0.295}$
	+3%/-4%	+2%/-5%	+139%/-194%	+33%/-15%	+15%/-15%	+50%/-52%
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 011289905-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-0 ± 1	$6.59^{+8.14}_{-4.63}$	3744^{+1318}_{-605}	-3507^{+395}_{-886}	$0.000^{+0.017}_{-0.010}$
Alt.	55 ± 1	$7.34^{+8.44}_{-5.28}$	3759^{+1451}_{-667}	-4257^{+706}_{-2244}	$-0.259^{+0.217}_{-3.107}$

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

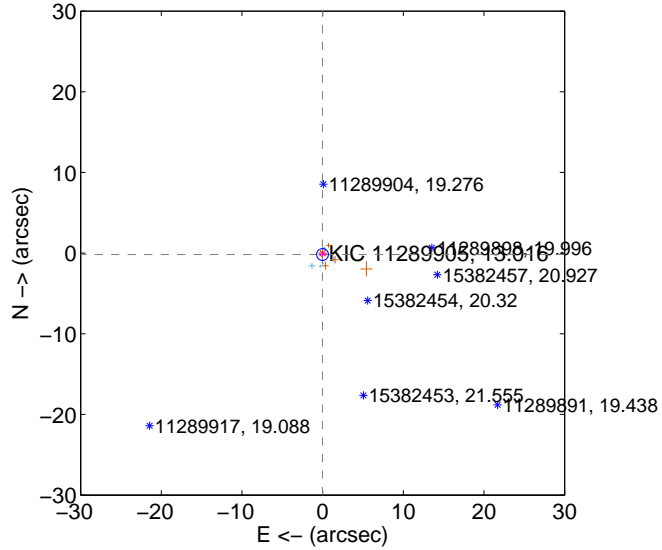
Supplemental centroid analysis for 011289905-01. Kepler magnitude: 13.02. Transit SNR 0.00

There are 9 quarters with good PRF difference image offsets

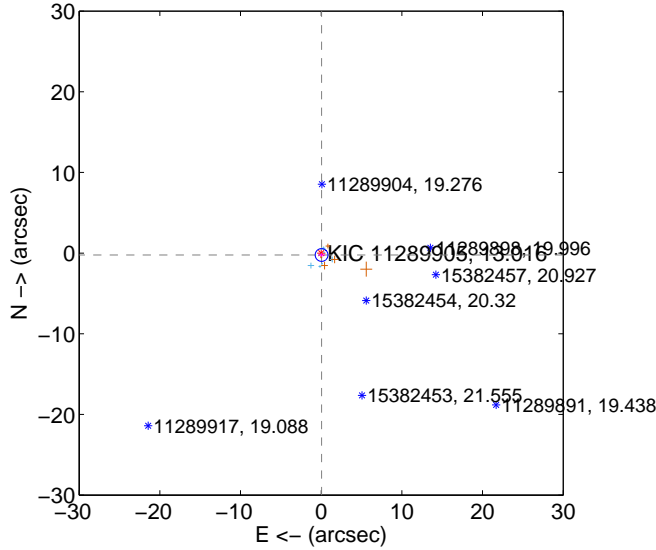
The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.174 ± 0.244	0.72	0.014 ± 0.454	-0.174 ± 0.254
PRF-fit source offset from KIC position	0.240 ± 0.264	0.91	-0.049 ± 0.424	-0.234 ± 0.228
photometric centroid source offset	—	—	—	—

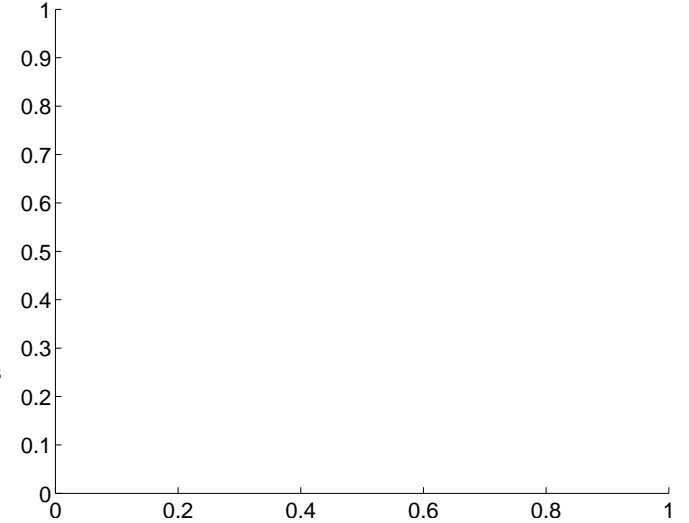
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

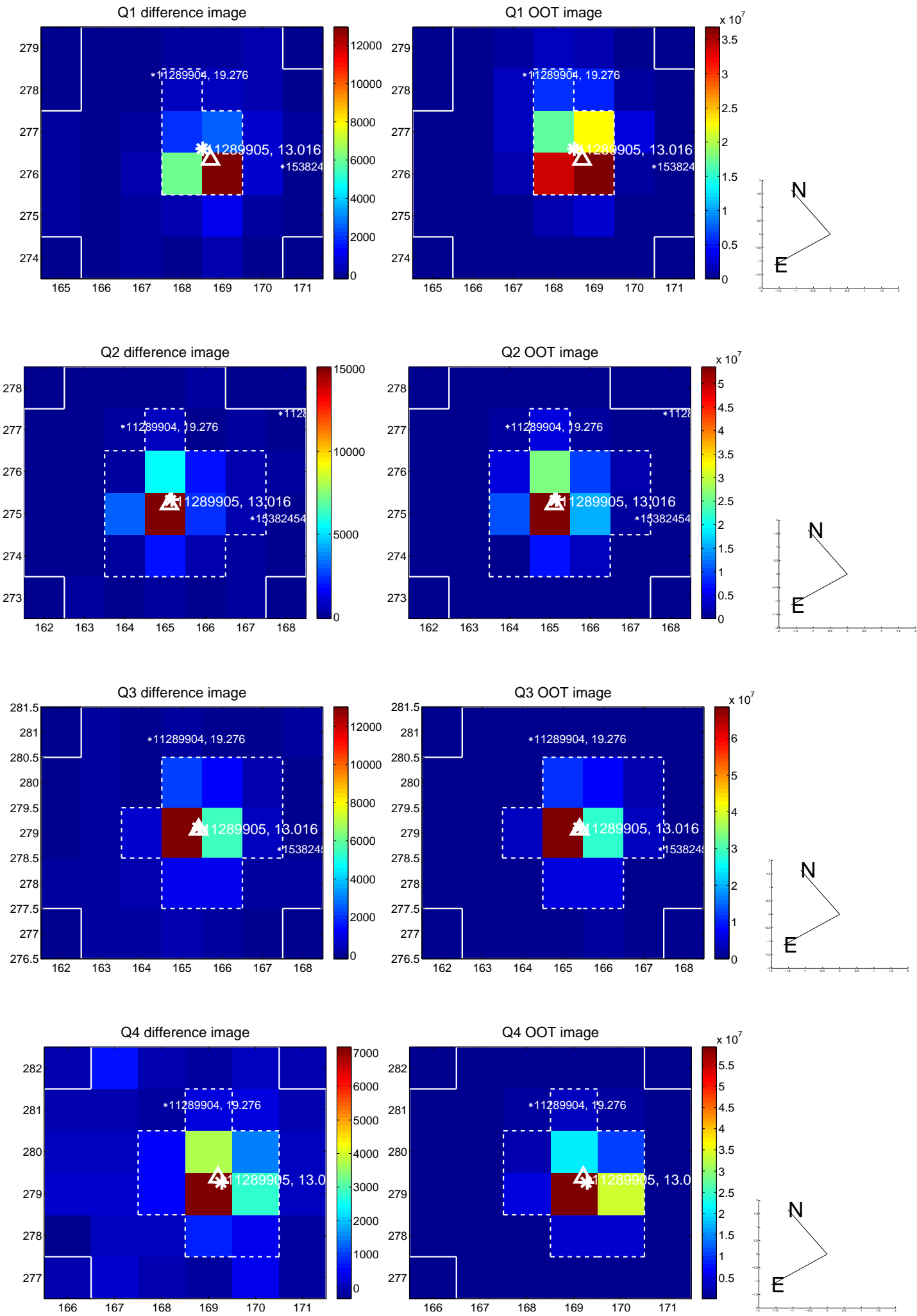


There are no photometric centroids

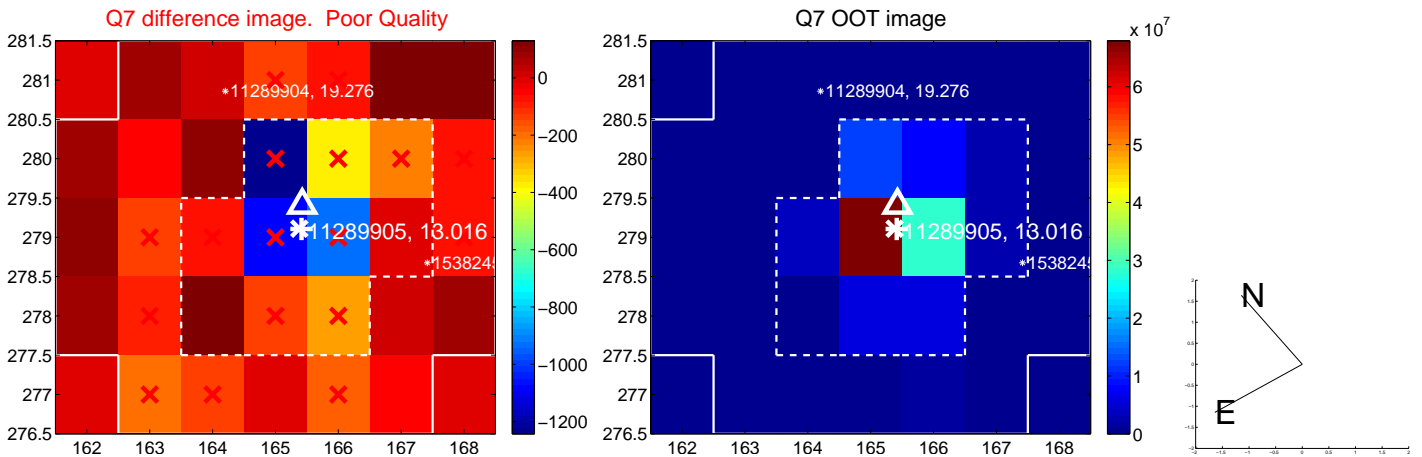
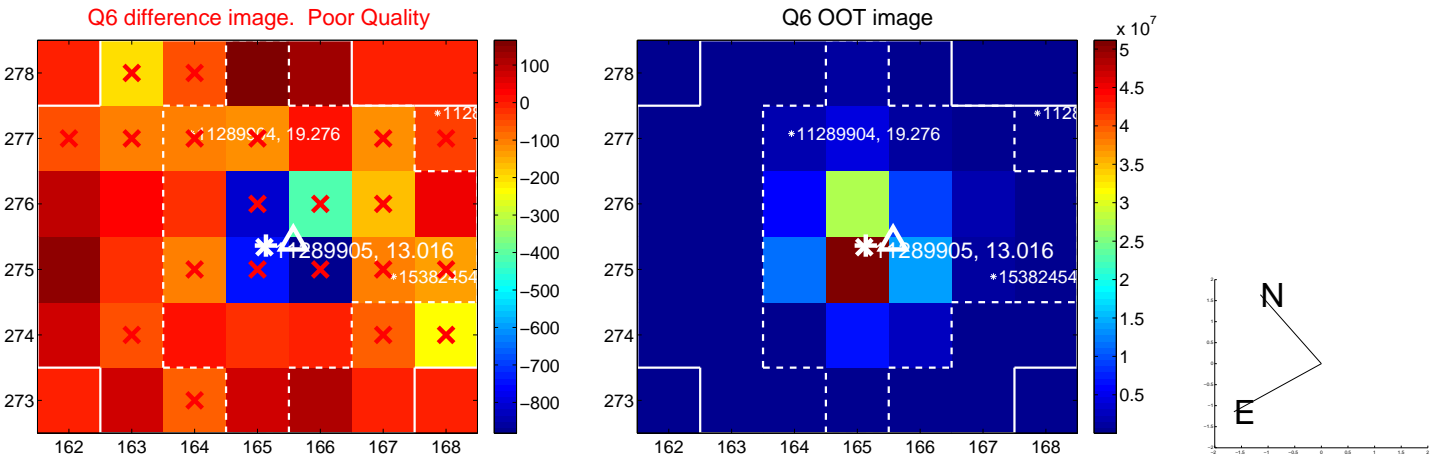
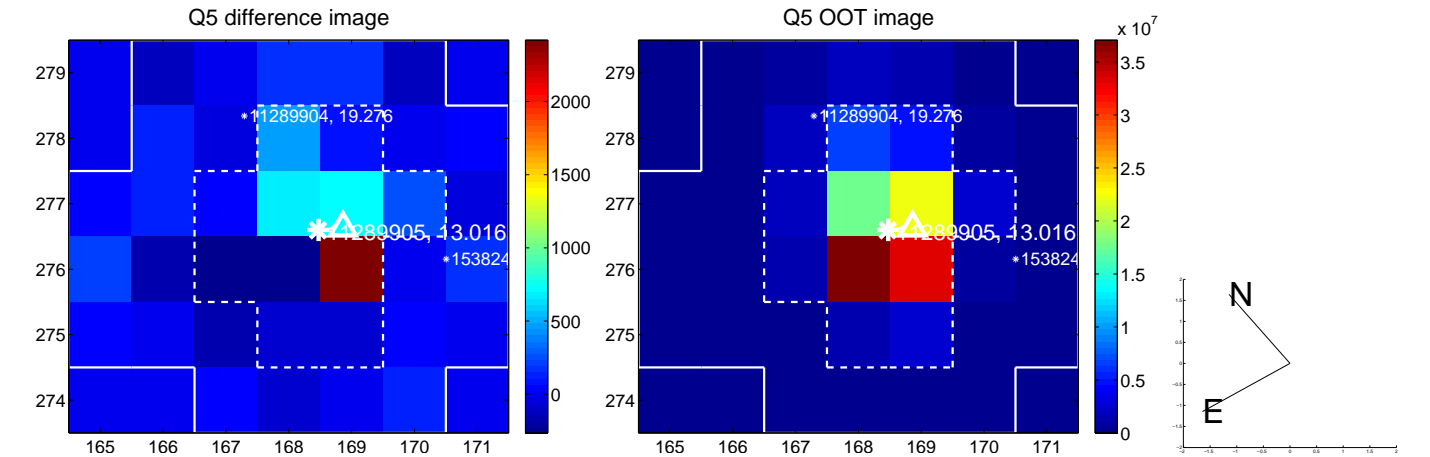


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

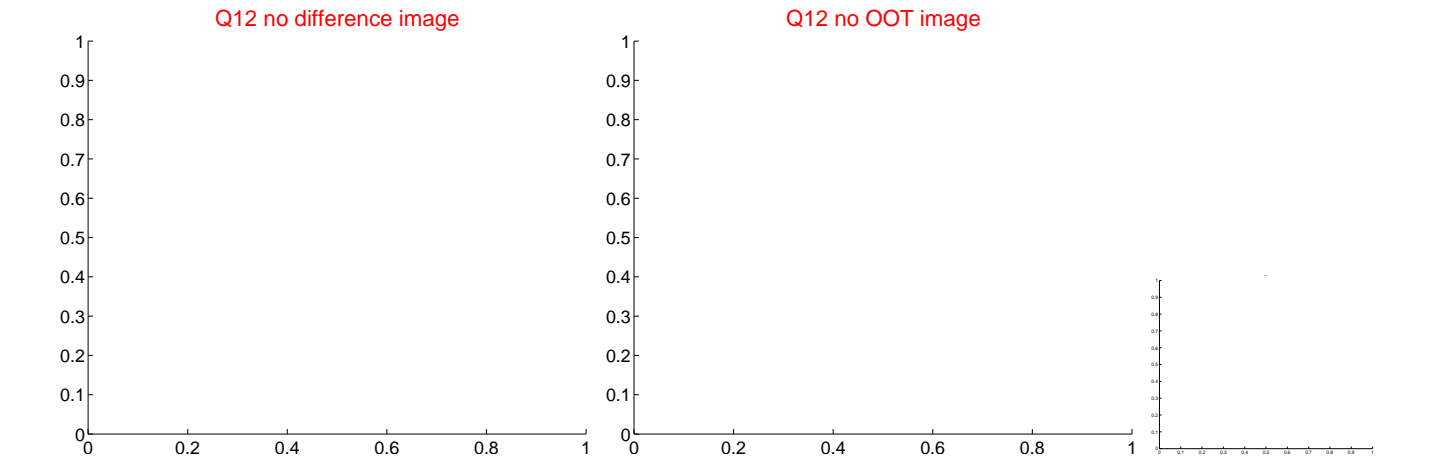
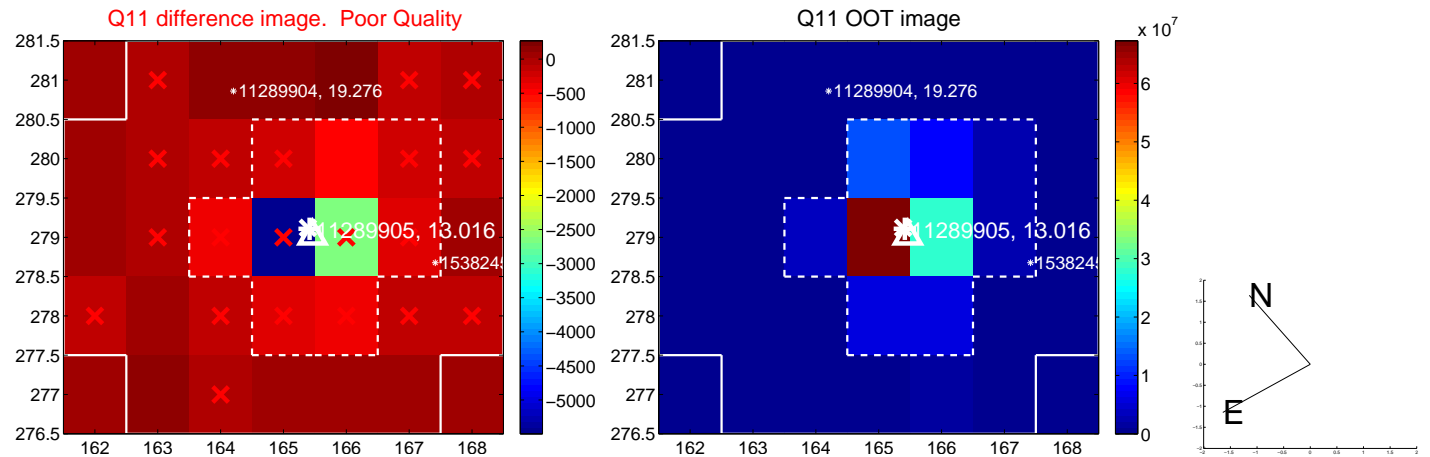
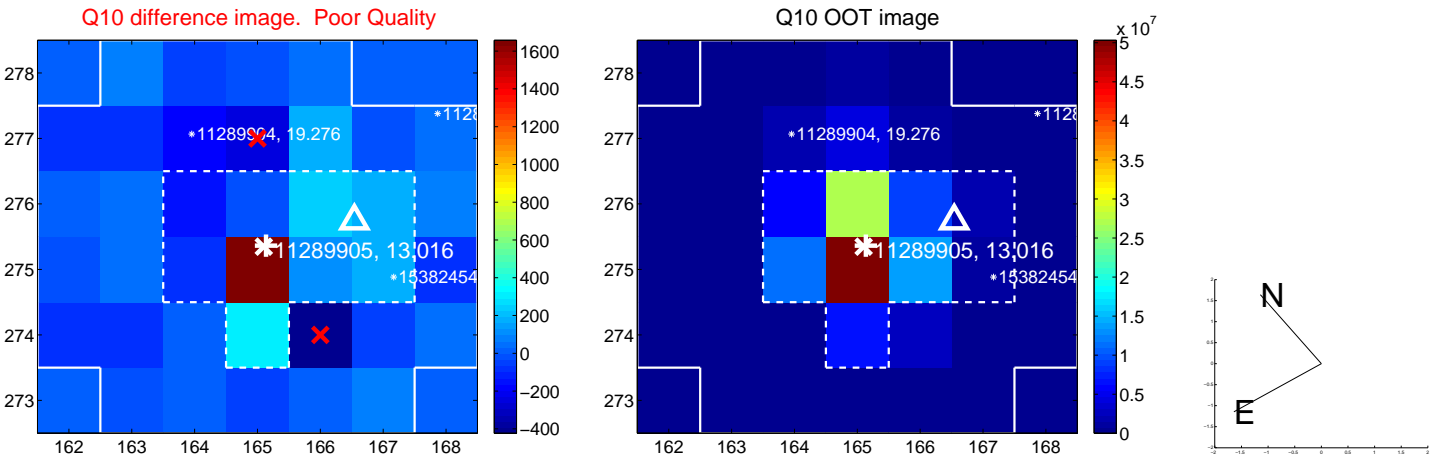
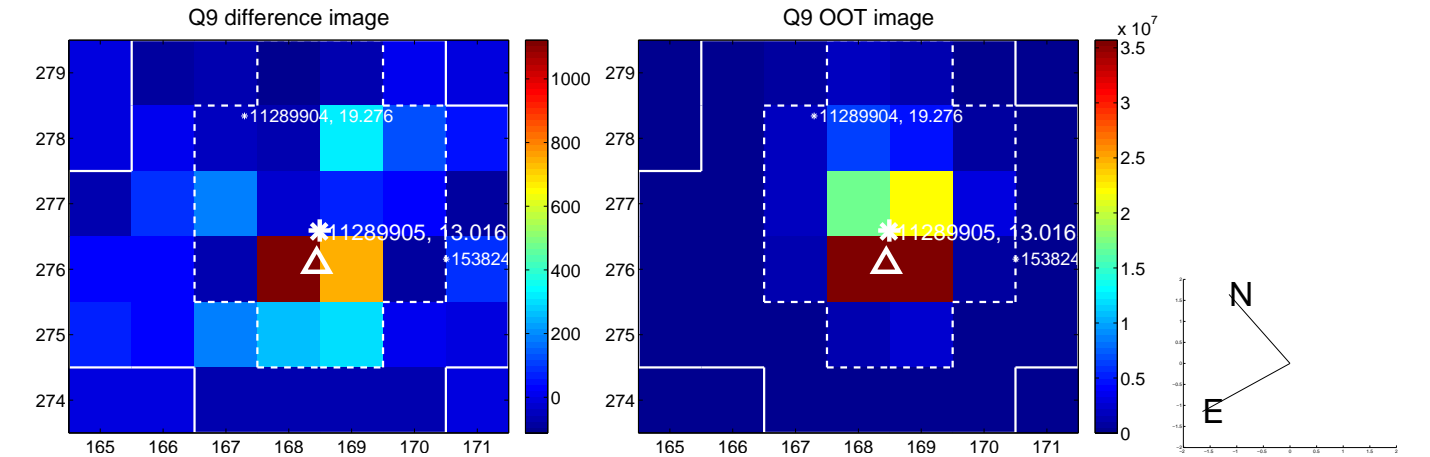
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



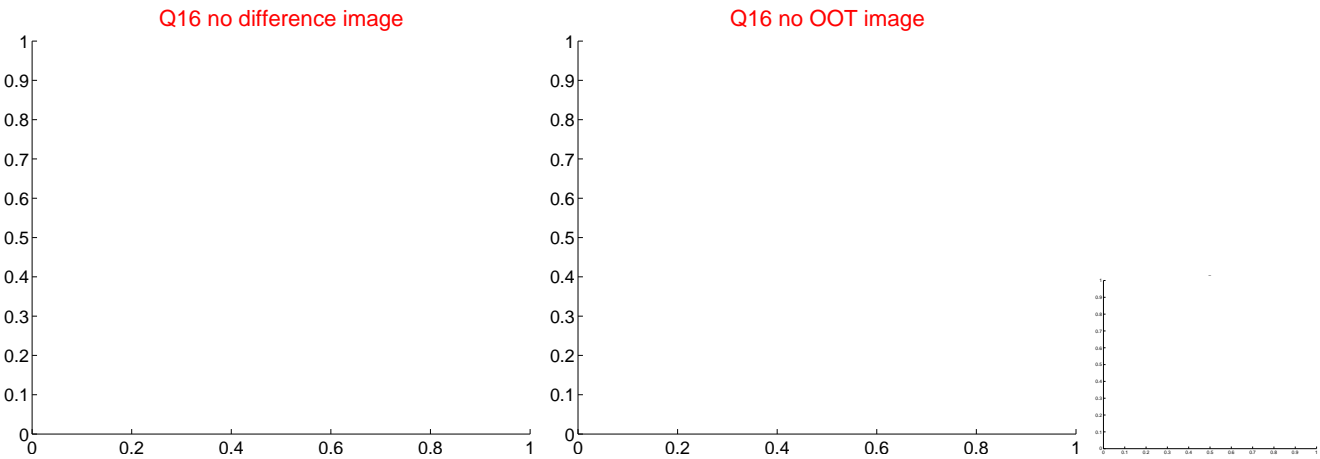
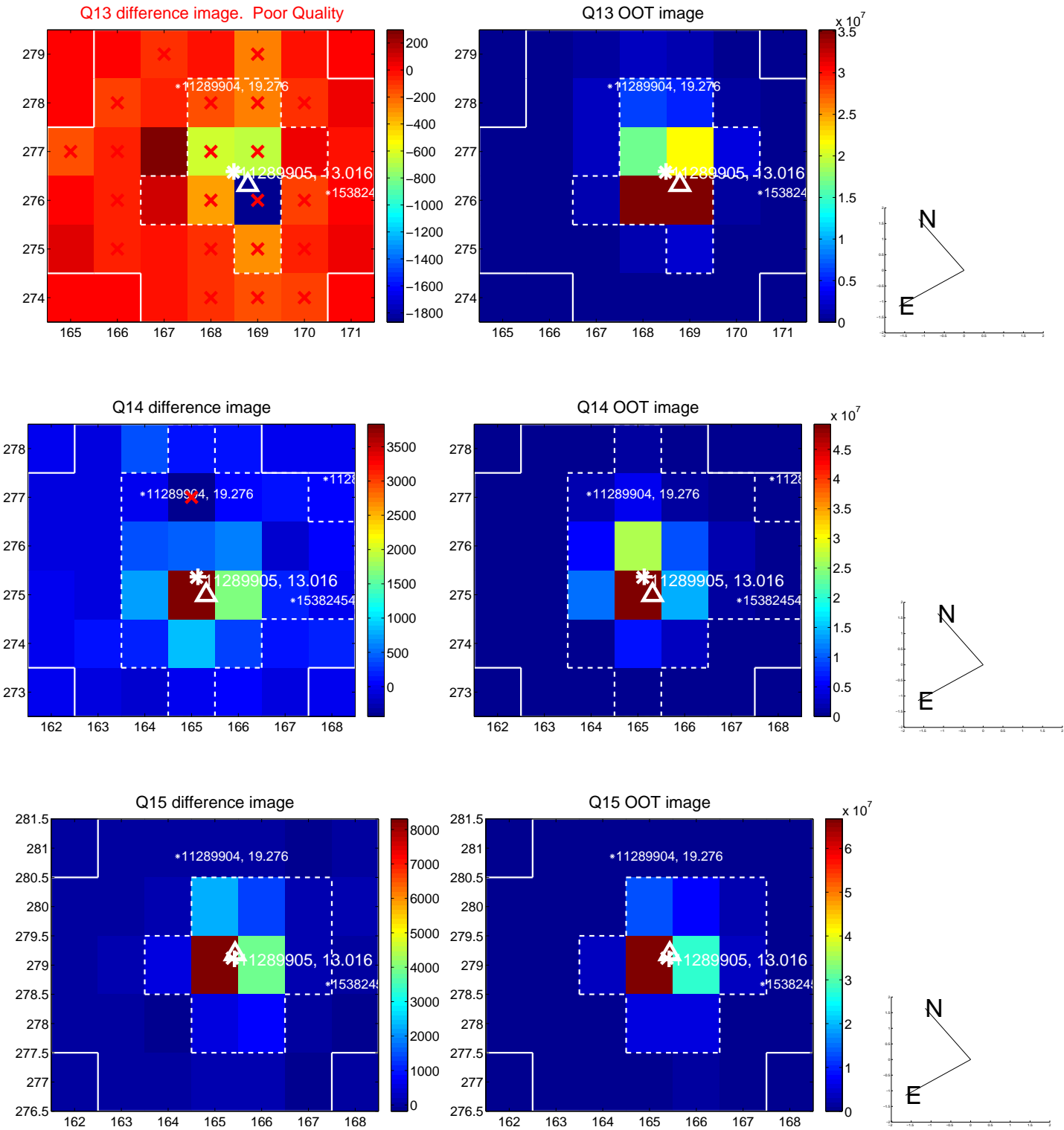
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



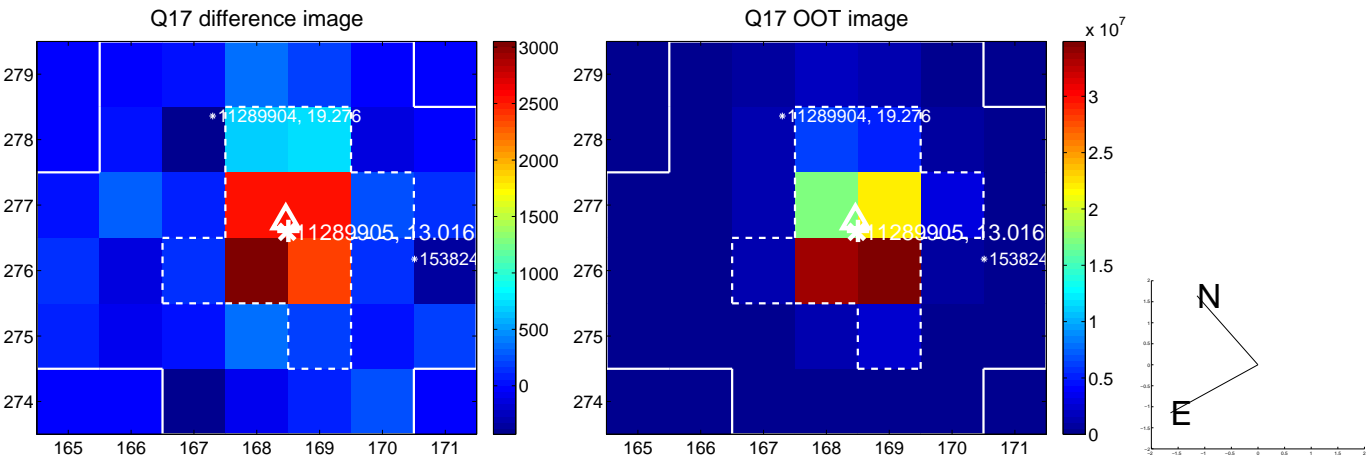
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



folded centroid time series figure for this object.

UKIRT Image

Declination

