

KIC 008260269

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})
008260269-01	OBS	7877.01	6.709946	134.021761	84.8	2.392	8.1	9.0	1.13	6461	1.22	372.77

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008260269-01	OBS	FP	0.14	0	0	1	0	CENT_RESOLVED_OFFSET

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

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

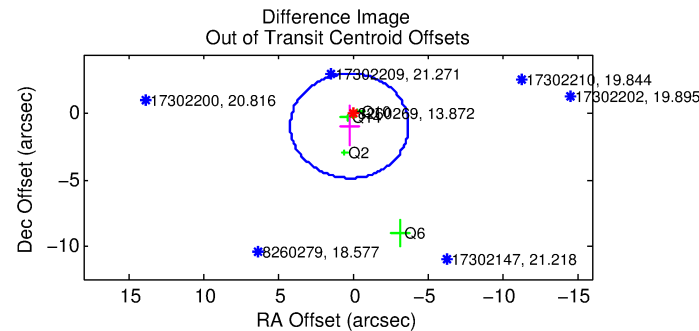
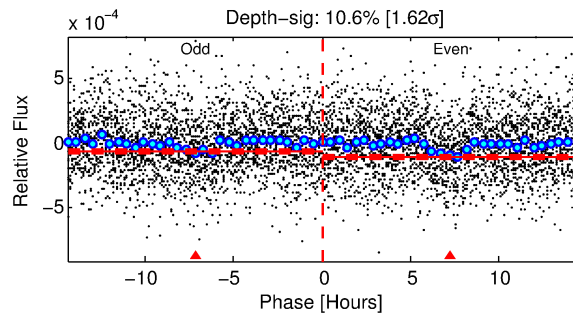
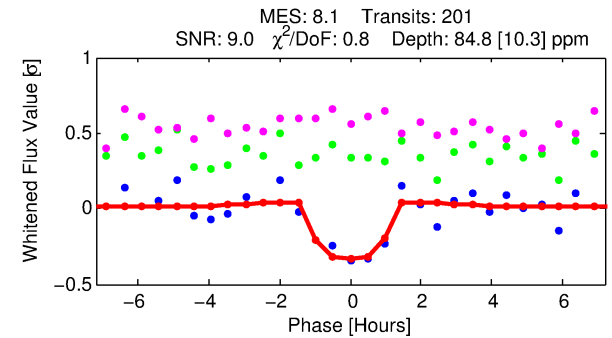
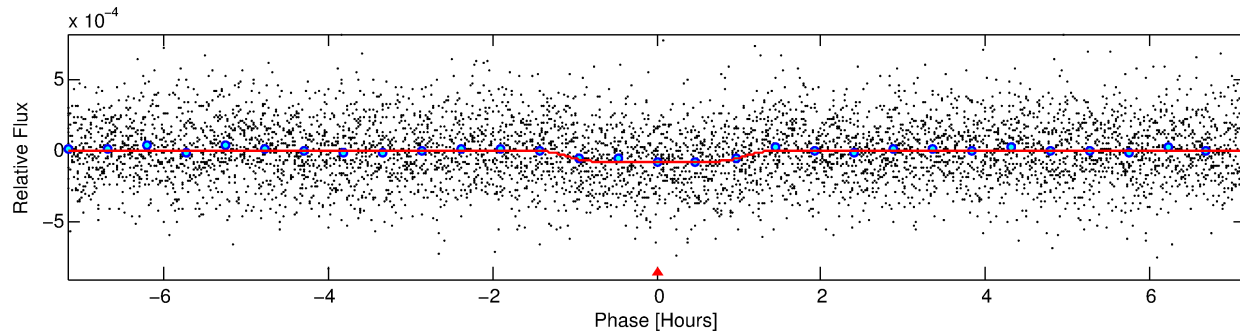
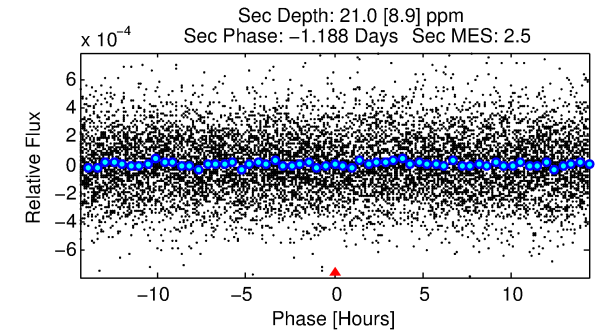
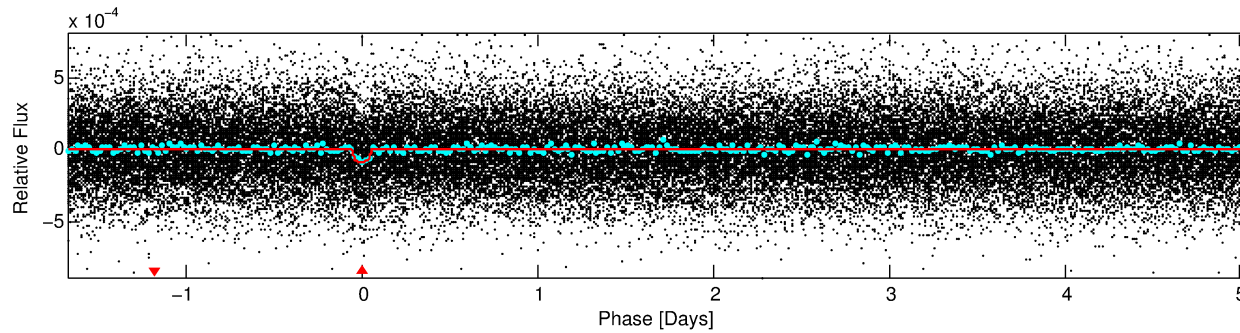
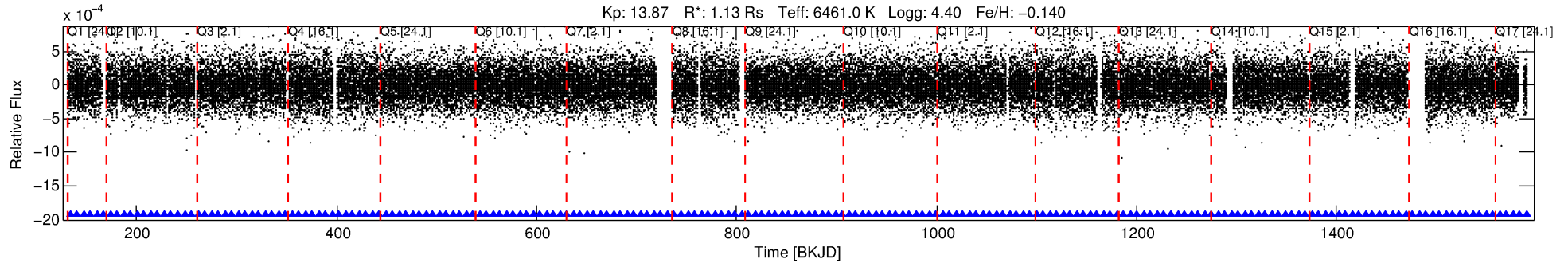
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008260269-01

No Significant Match Found

DV One-Page Summary

KIC: 8260269 Candidate: 1 of 1 Period: 6.710 d



DV Fit Results:

Period = 6.70995 [0.00004] d
Epoch = 134.0218 [0.0048] BKJD
Rp/R* = 0.0099 [0.0057]
a/R* = 9.86 [31.96]
b = 0.90 [0.70]
Seff = 372.77 [141.36]
Teq = 1120 [106] K
Rp = 1.22 [0.79] Re
a = 0.0732 [0.0183] AU
Ag = 41.56 [53.29] [0.76σ]
Teffp = 4399 [1360] K [2.40σ]

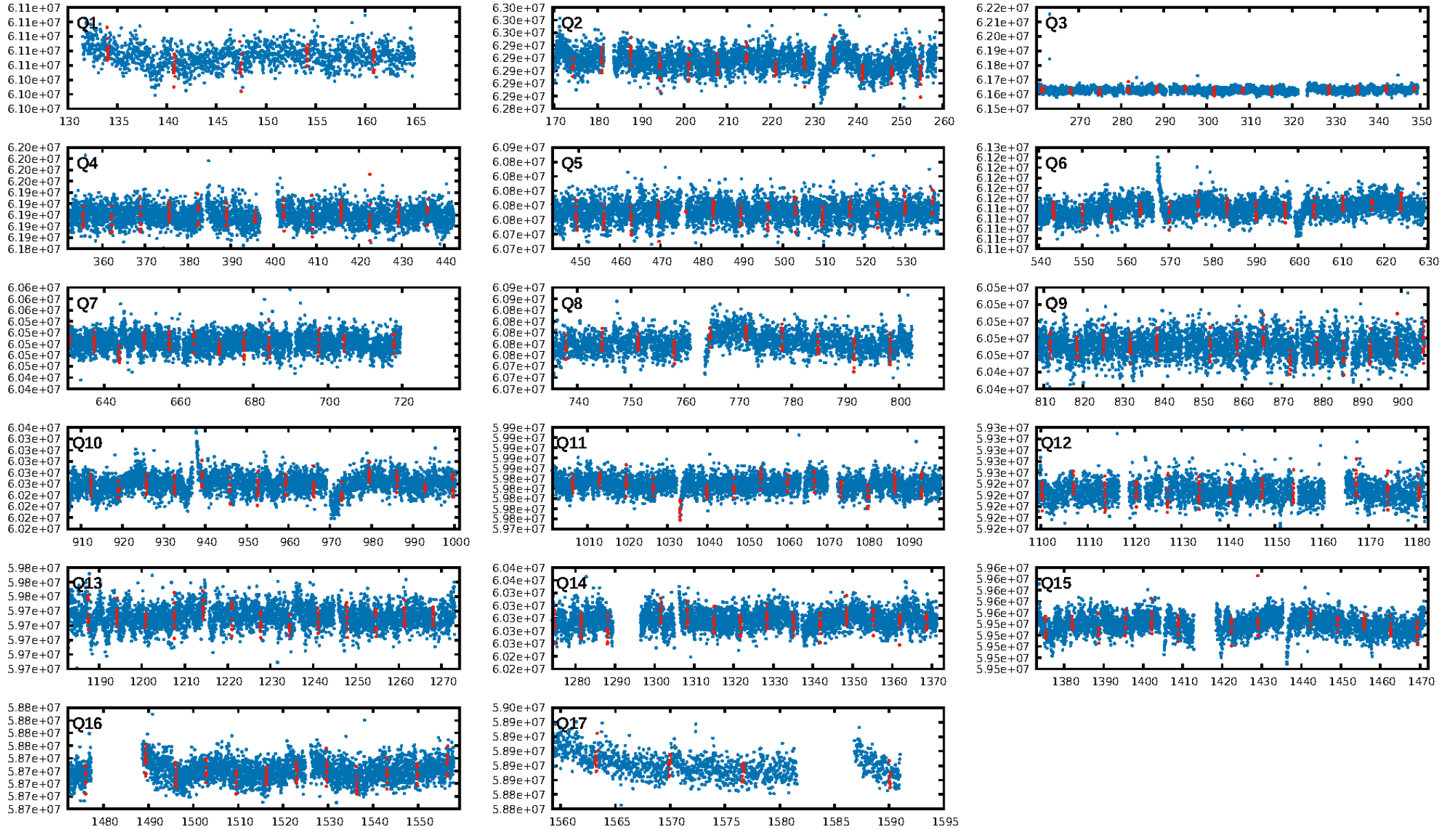
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 9.90e-16
RollingBand-fgt: 1.00 [192/192]
GhostDiagnostic-chr: -1.742
Centroid-sig: N/A
Centroid-so: 5.439 arcsec [5.77σ]
OotOffset-rm: 0.937 arcsec [0.71σ]
KicOffset-rm: 8.187 arcsec [5.46σ]
OotOffset-st: 4/0/0/0 [4]
KicOffset-st: 4/0/2/0 [6]
DiffImageQuality-fgm: 0.00 [0/6]
DiffImageOverlap-fno: 1.00 [17/17]

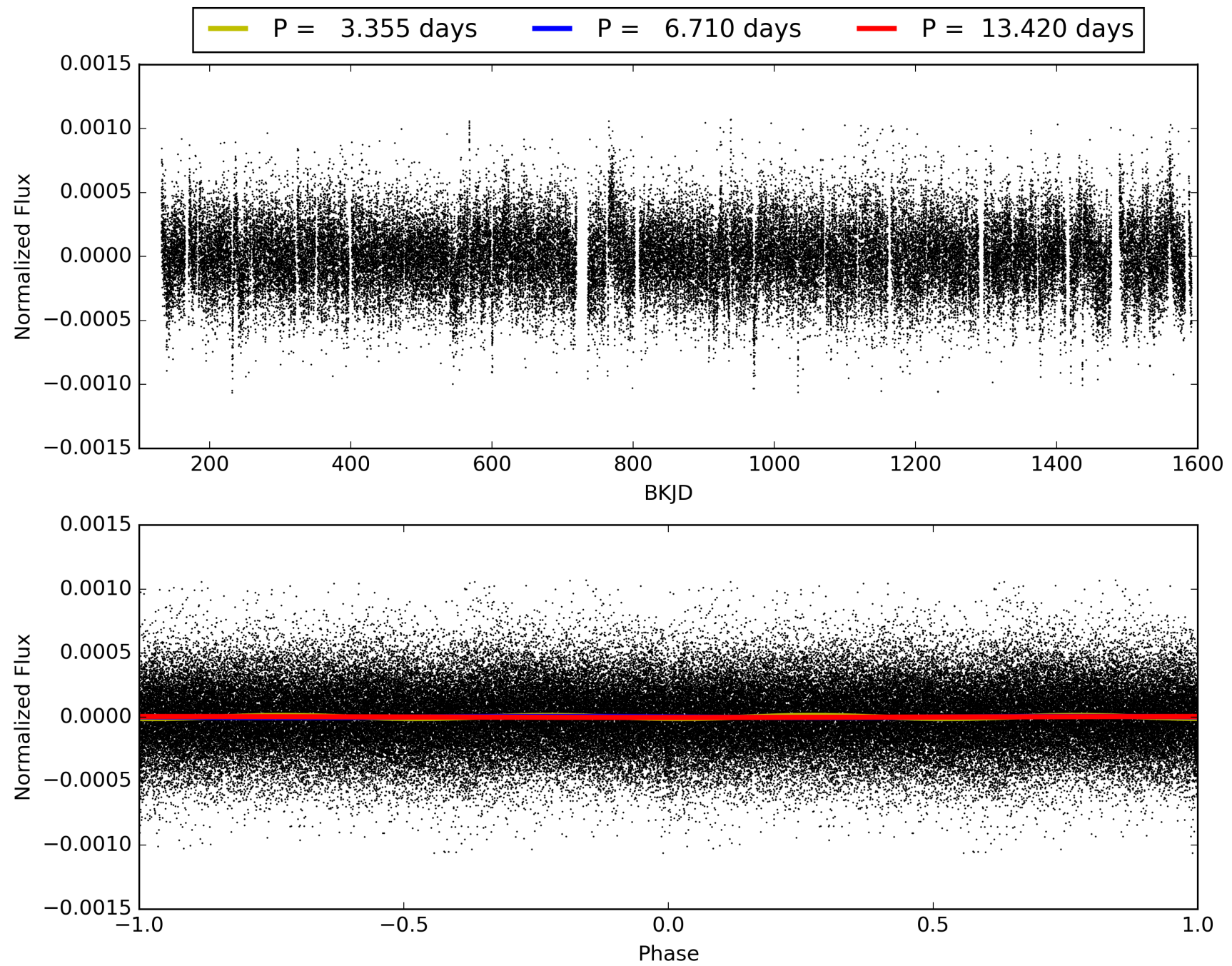
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:18:05 Z

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

TCE 008260269-01, PDC Light Curves

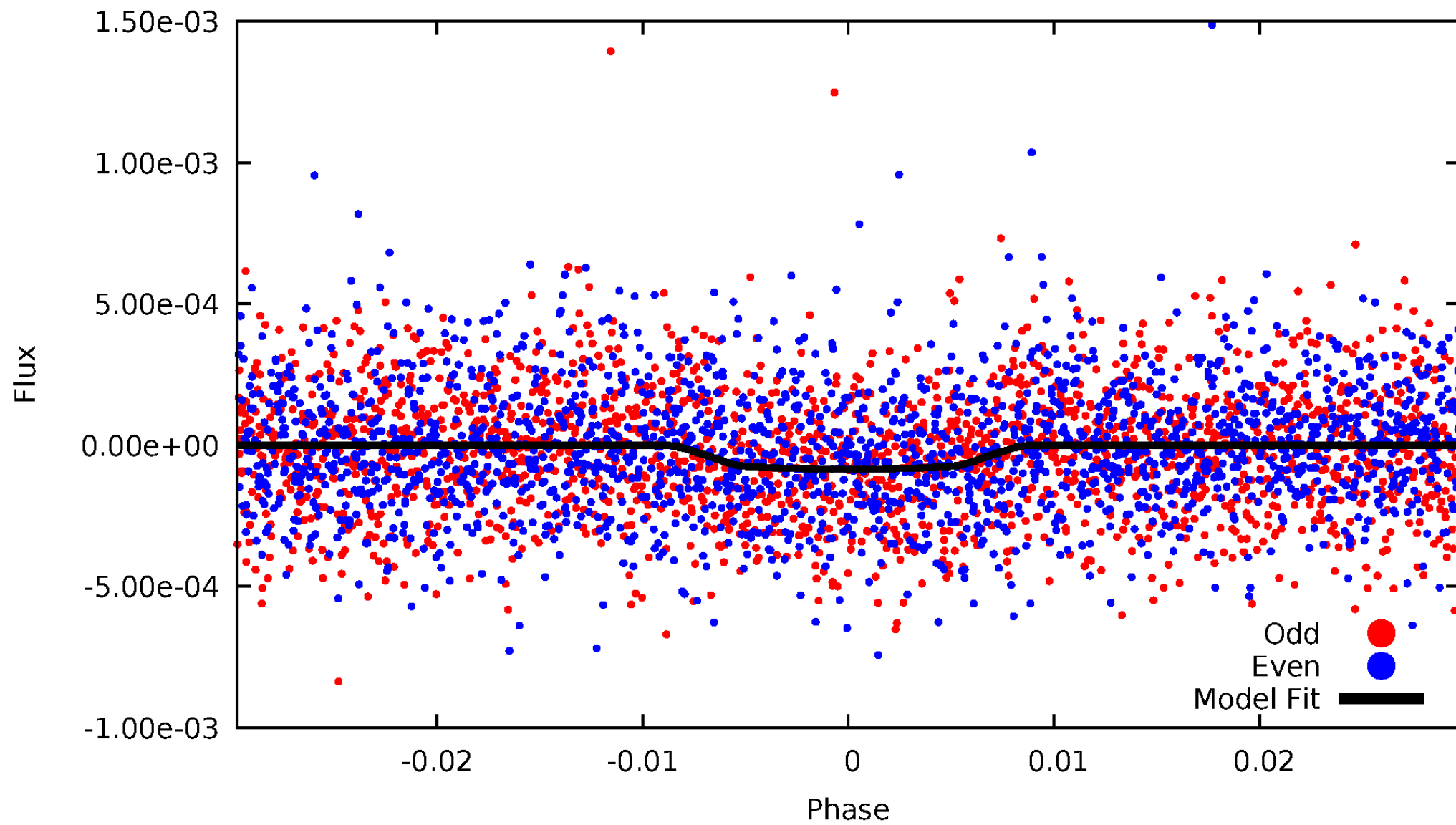


TCE 008260269-01



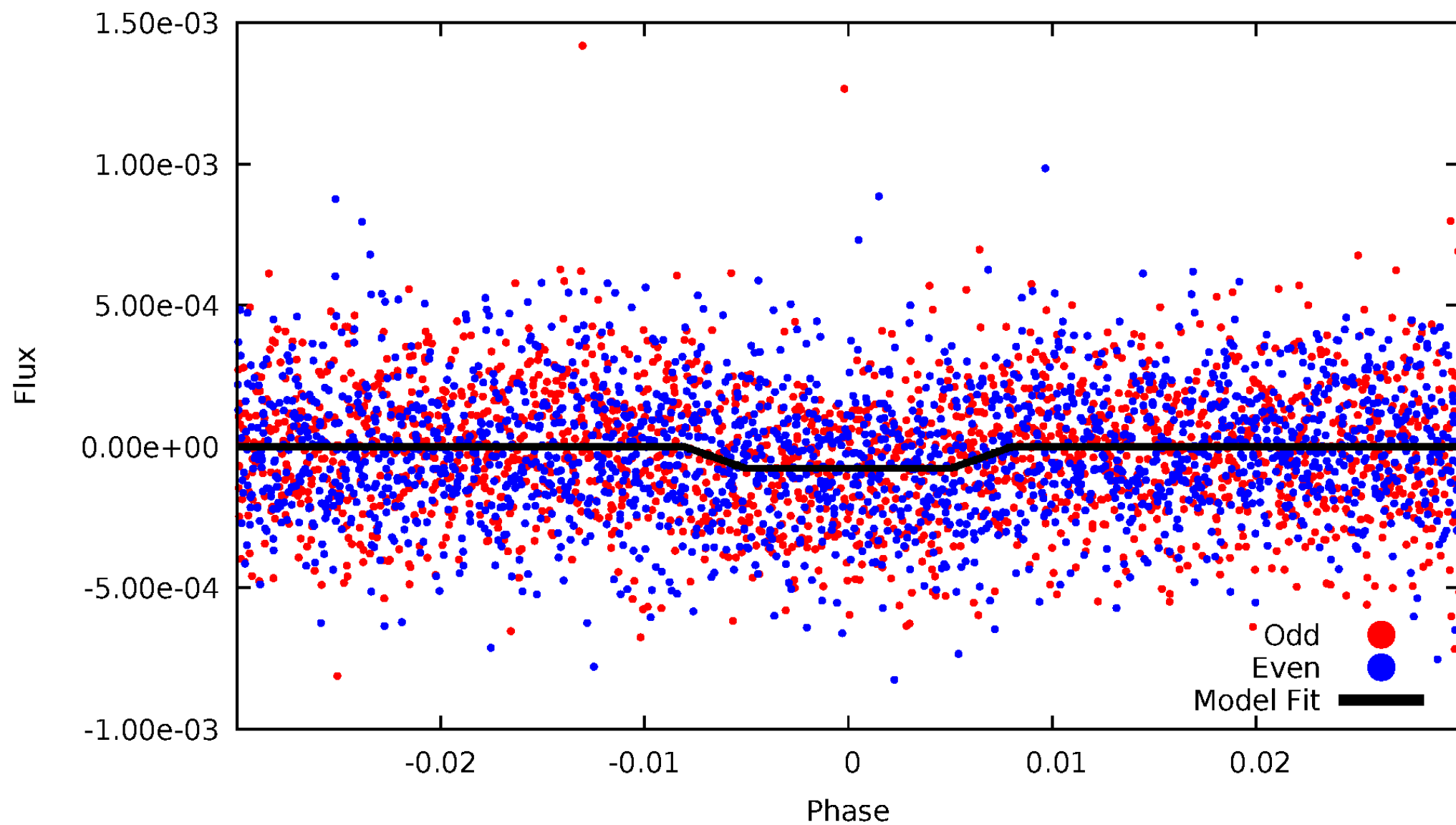
DV Odd/Even

TCE 008260269-01

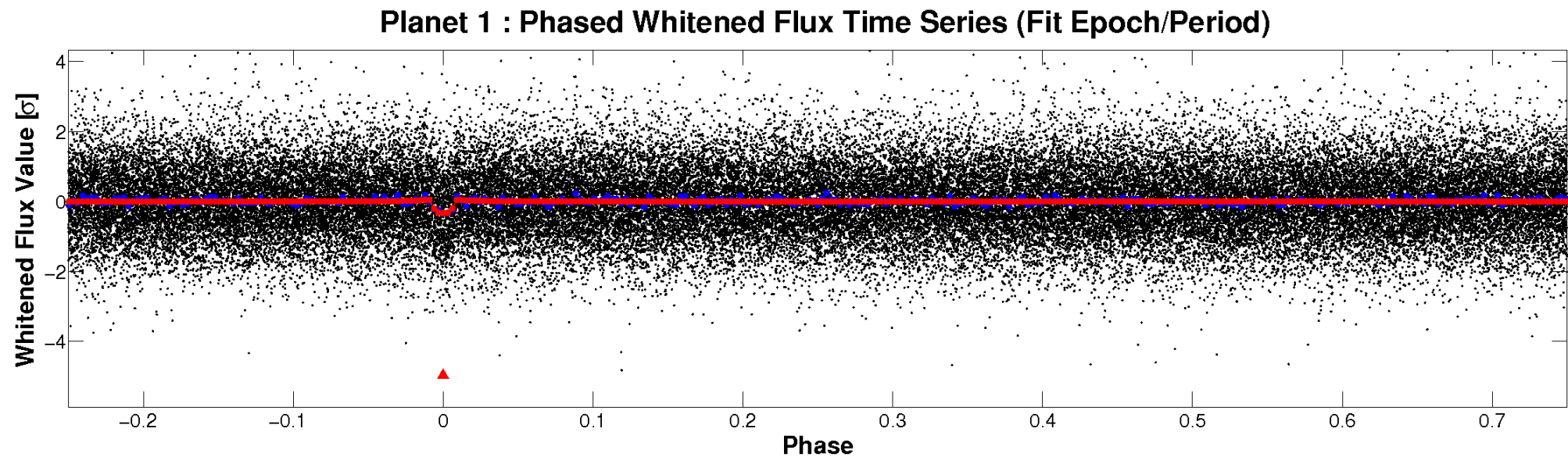
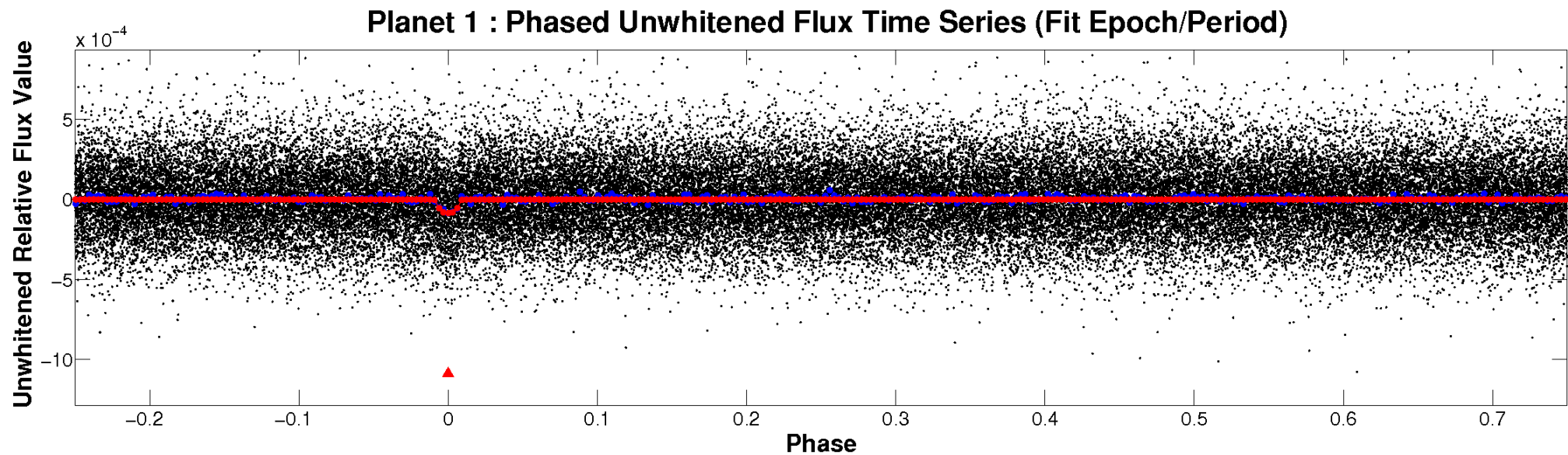


ALT Odd/Even

TCE 008260269-01

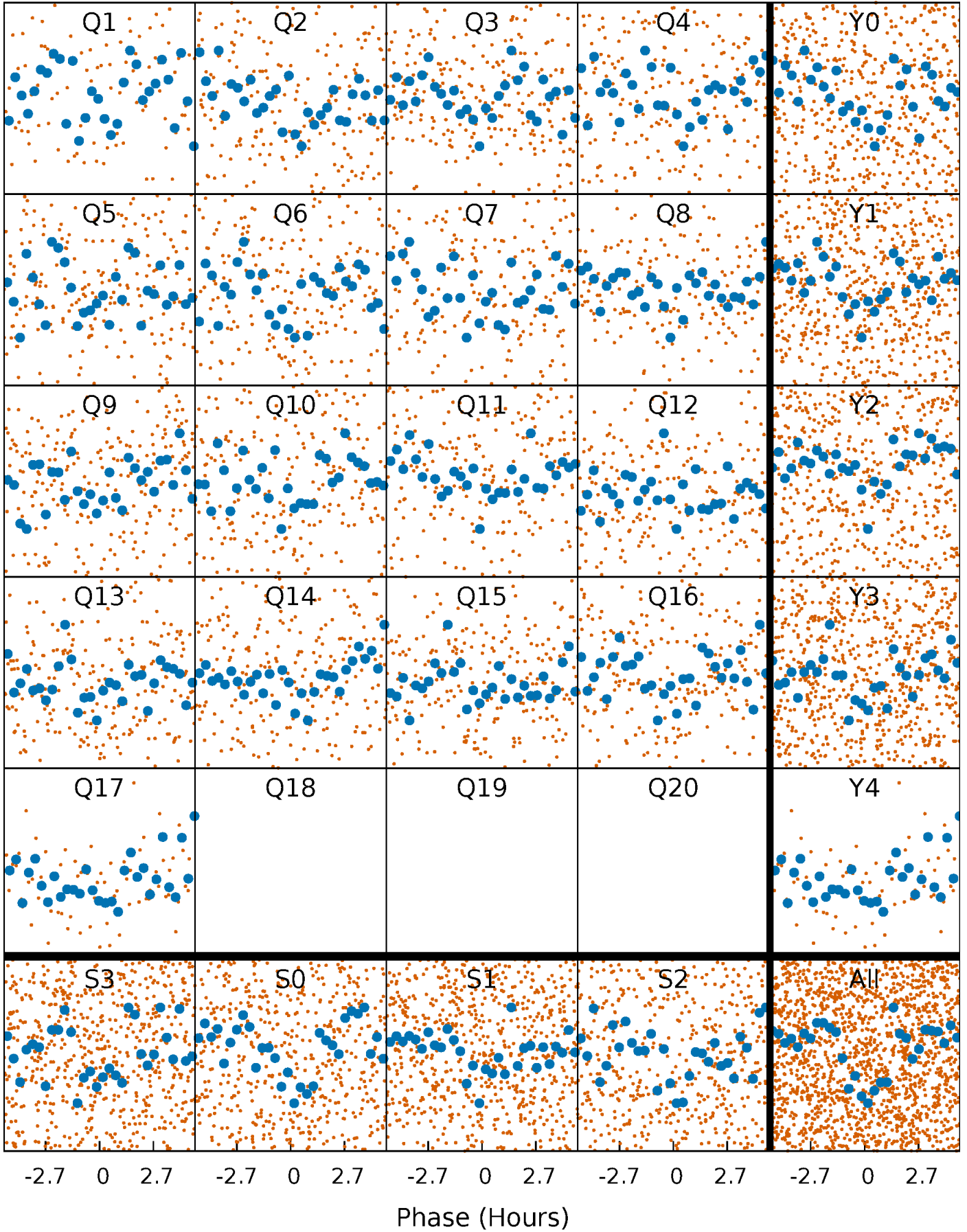


Non-Whitened Vs. Whitened Light Curve



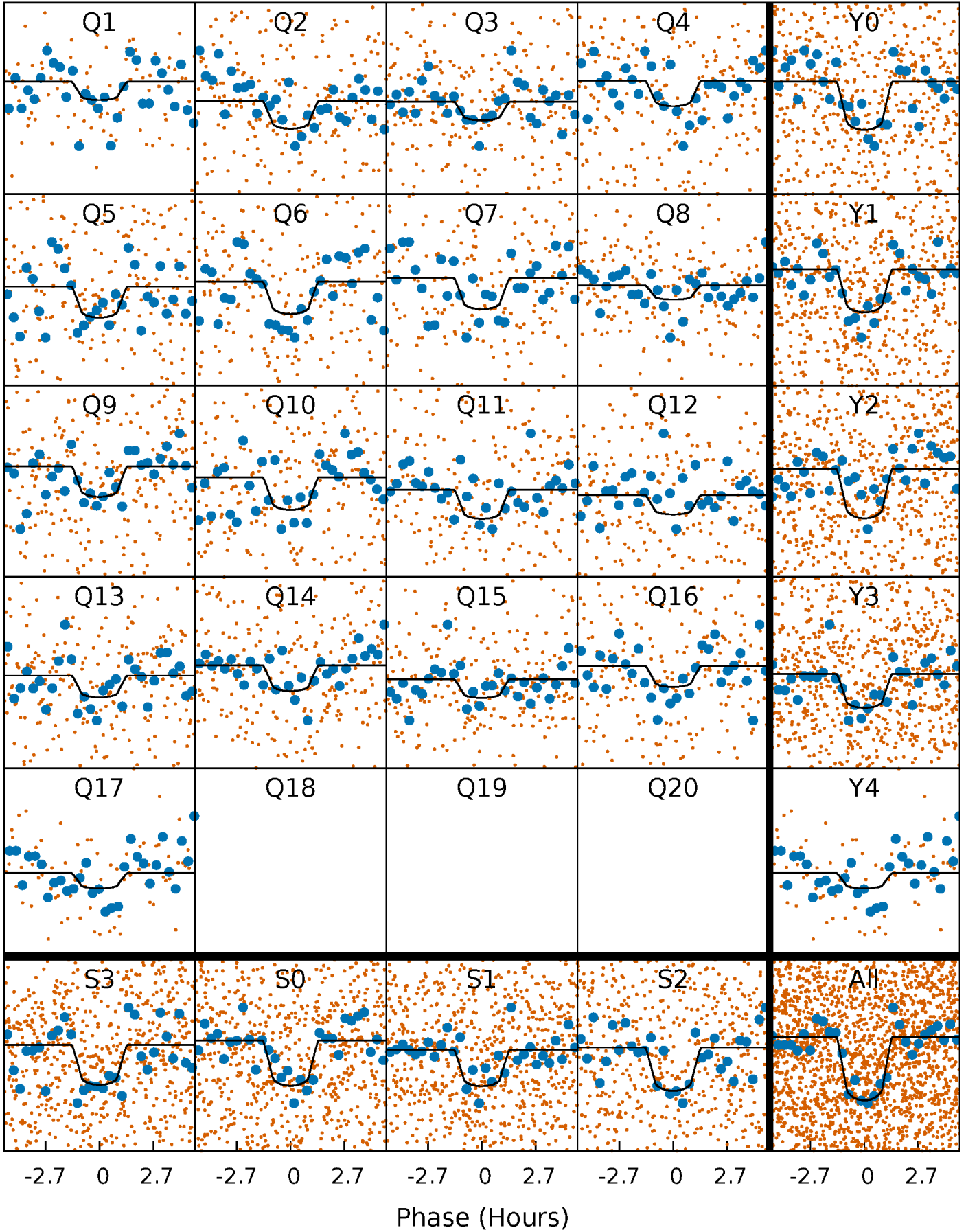
PDC Quarter-Phased Transit Curves

TCE 008260269-01 P= 6.709946 Days $T_0=134.021761$ (BKJD)



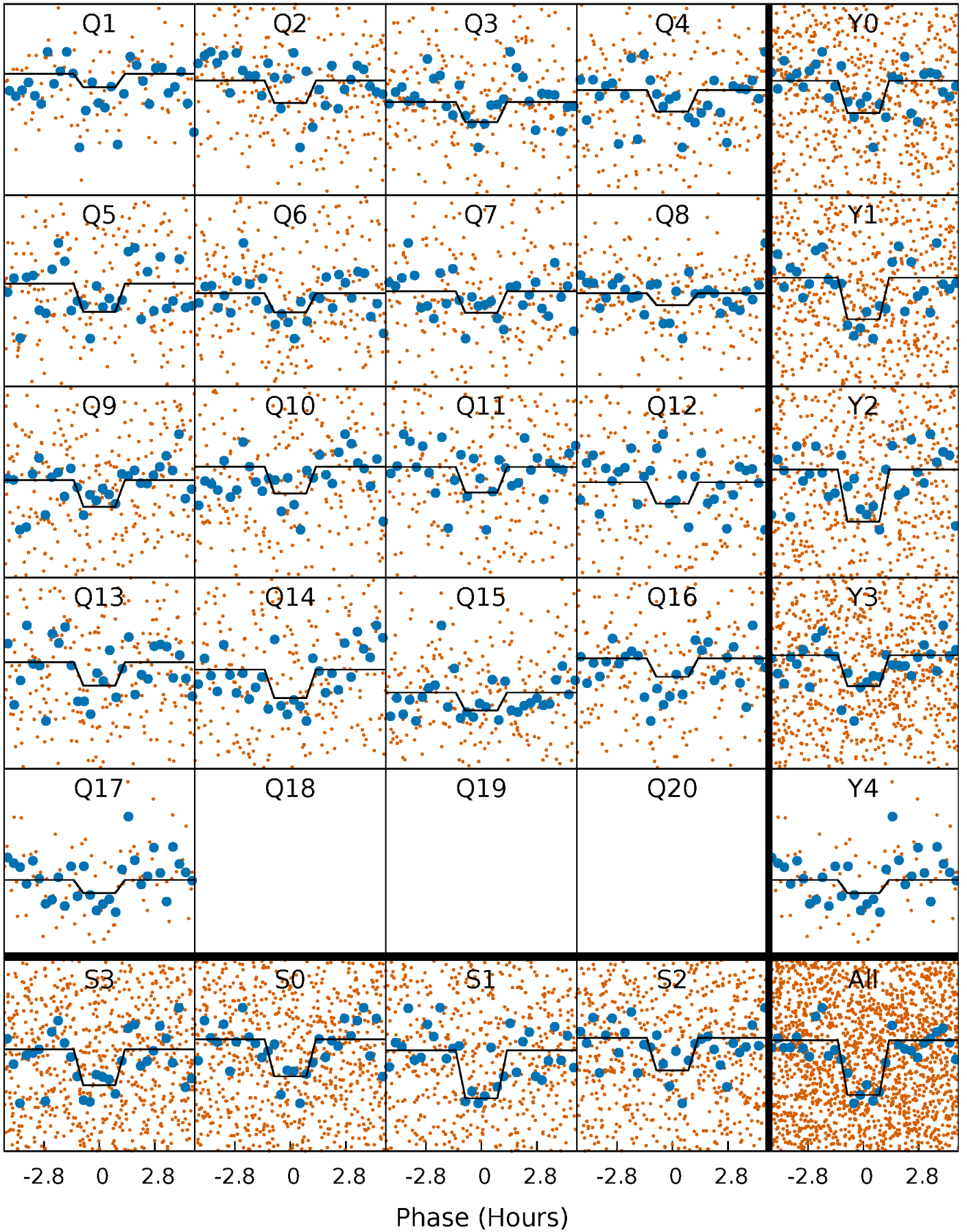
DV Quarter-Phased Transit Curves

TCE 008260269-01 P= 6.709946 Days $T_0=134.021761$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

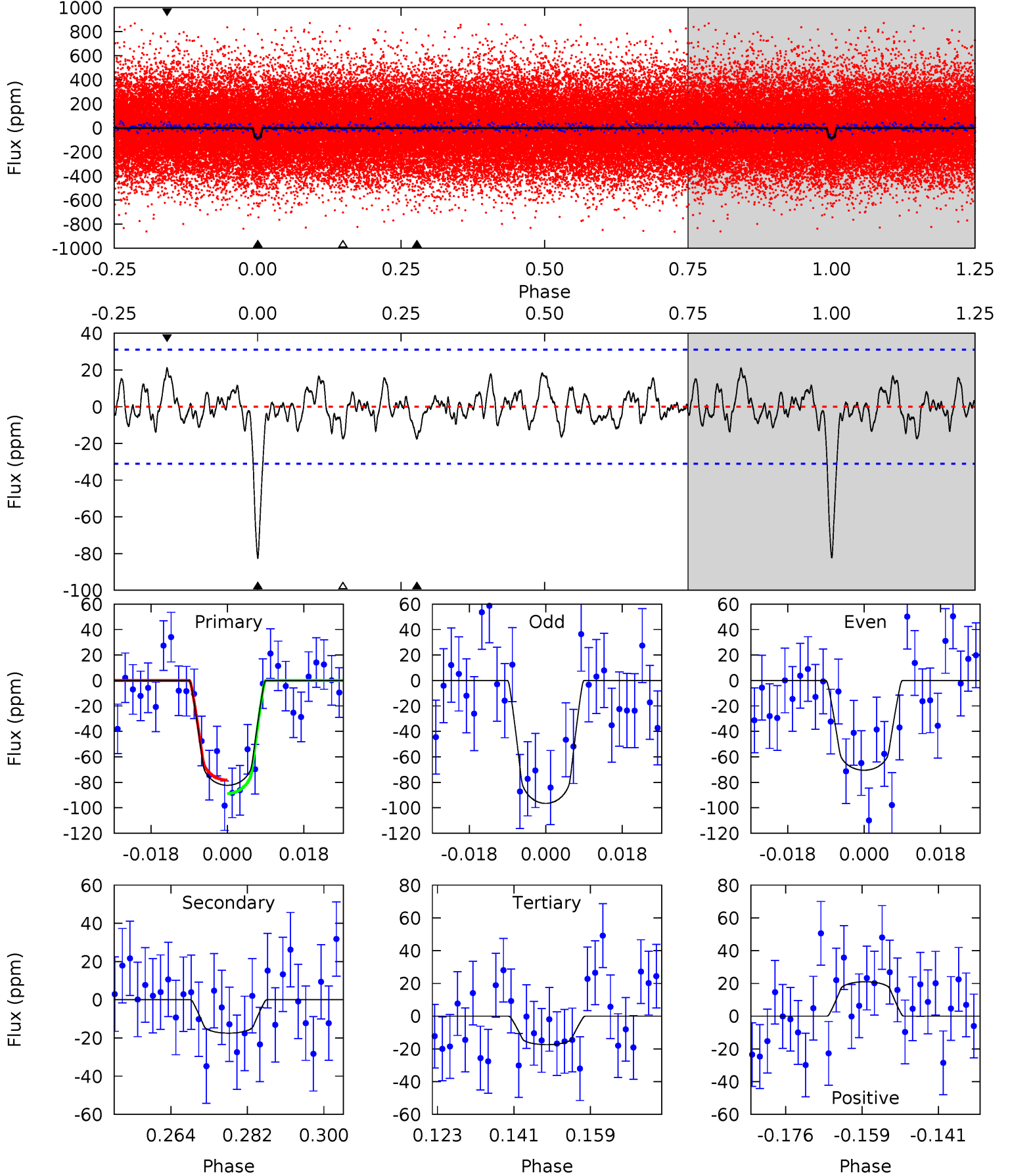
TCE 008260269-01 P= 6.710034 Days $T_0=134.014775$ (BKJD)



DV Model-Shift Uniqueness Test

008260269-01, P = 6.709946 Days, E = 127.311815 Days

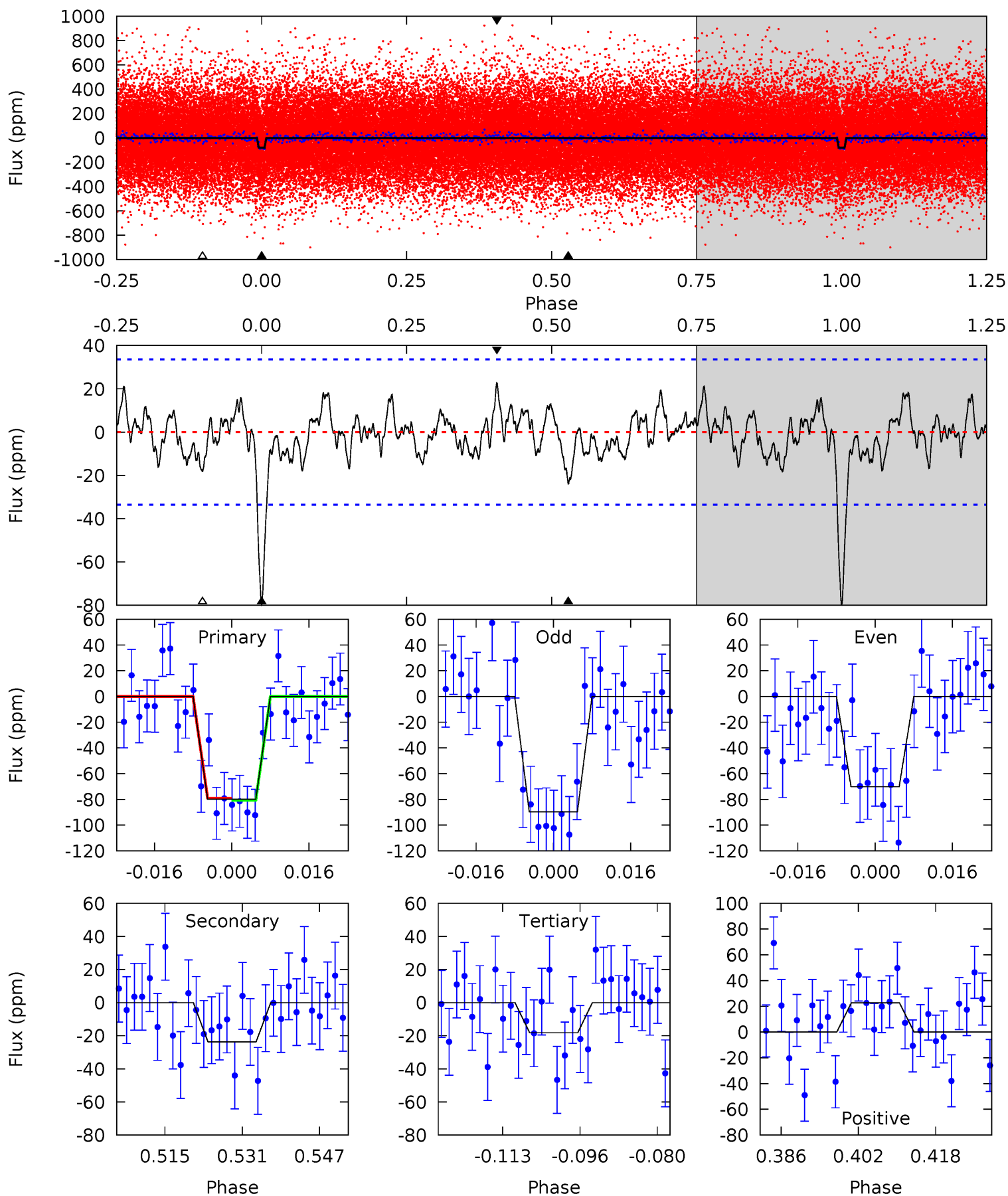
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	2.77	2.75	3.32	4.92	2.37	1.12	10.3	9.70	0.01	-0.55	2.07	0.98	0.20	0.84



Alt Model-Shift Uniqueness Test

008260269-01, P = 6.710034 Days, E = 127.304741 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.7	3.48	2.67	3.34	4.93	2.41	1.18	9.07	8.40	0.81	0.15	1.44	1.05	0.22	0.13



Stellar Parameters For KIC 008260269

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6461^{+145}_{-193}	$4.396^{+0.065}_{-0.195}$	$-0.140^{+0.250}_{-0.300}$	$1.131^{+0.339}_{-0.145}$	$1.162^{+0.168}_{-0.152}$	$1.131^{+0.317}_{-0.597}$
	+2%/-3%	+1%/-4%	+179%/-214%	+30%/-13%	+14%/-13%	+28%/-53%
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 008260269-01 / KOI 7877.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-17 ± 6	$1.31^{+0.77}_{-0.70}$	1593^{+115}_{-77}	4300^{+1713}_{-682}	29^{+110}_{-18}
Alt.	-24 ± 7	$1.21^{+0.73}_{-0.66}$	1596^{+111}_{-76}	4796^{+1954}_{-890}	46^{+167}_{-29}

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 $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

DV Centroid Data

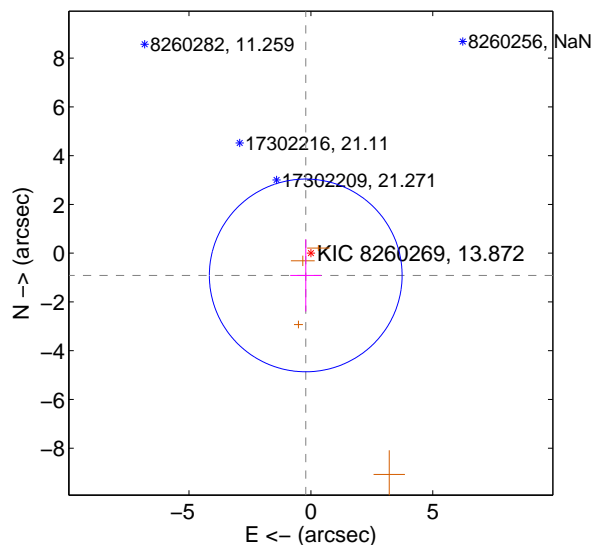
Supplemental centroid analysis for 008260269-01. Kepler magnitude: 13.87. Transit SNR 8.97

There are 0 quarters with good PRF difference image offsets

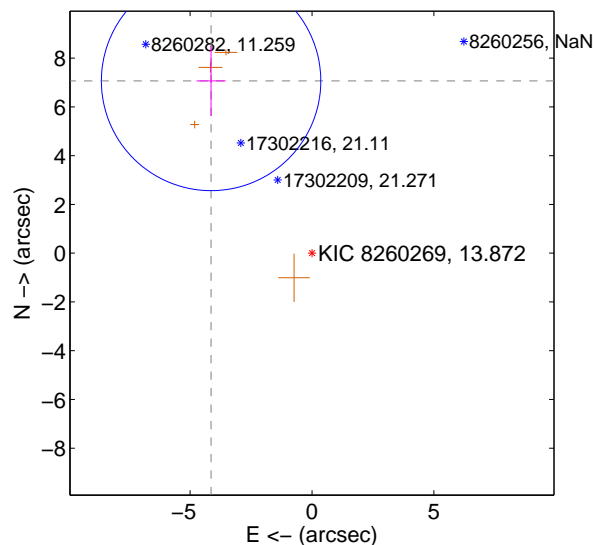
The OOT PRF centroid is offset from the target star catalog position by about 8.81 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.937 ± 1.317	0.71	0.211 ± 0.636	-0.913 ± 1.482
PRF-fit source offset from KIC position	8.187 ± 1.500	5.46	4.138 ± 0.599	7.064 ± 1.439
photometric centroid source offset	5.44 ± 0.94	5.77	4.02 ± 0.88	3.66 ± 1.02

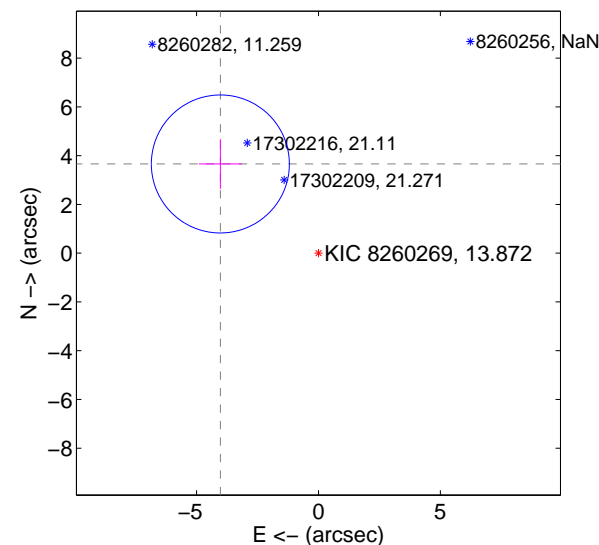
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

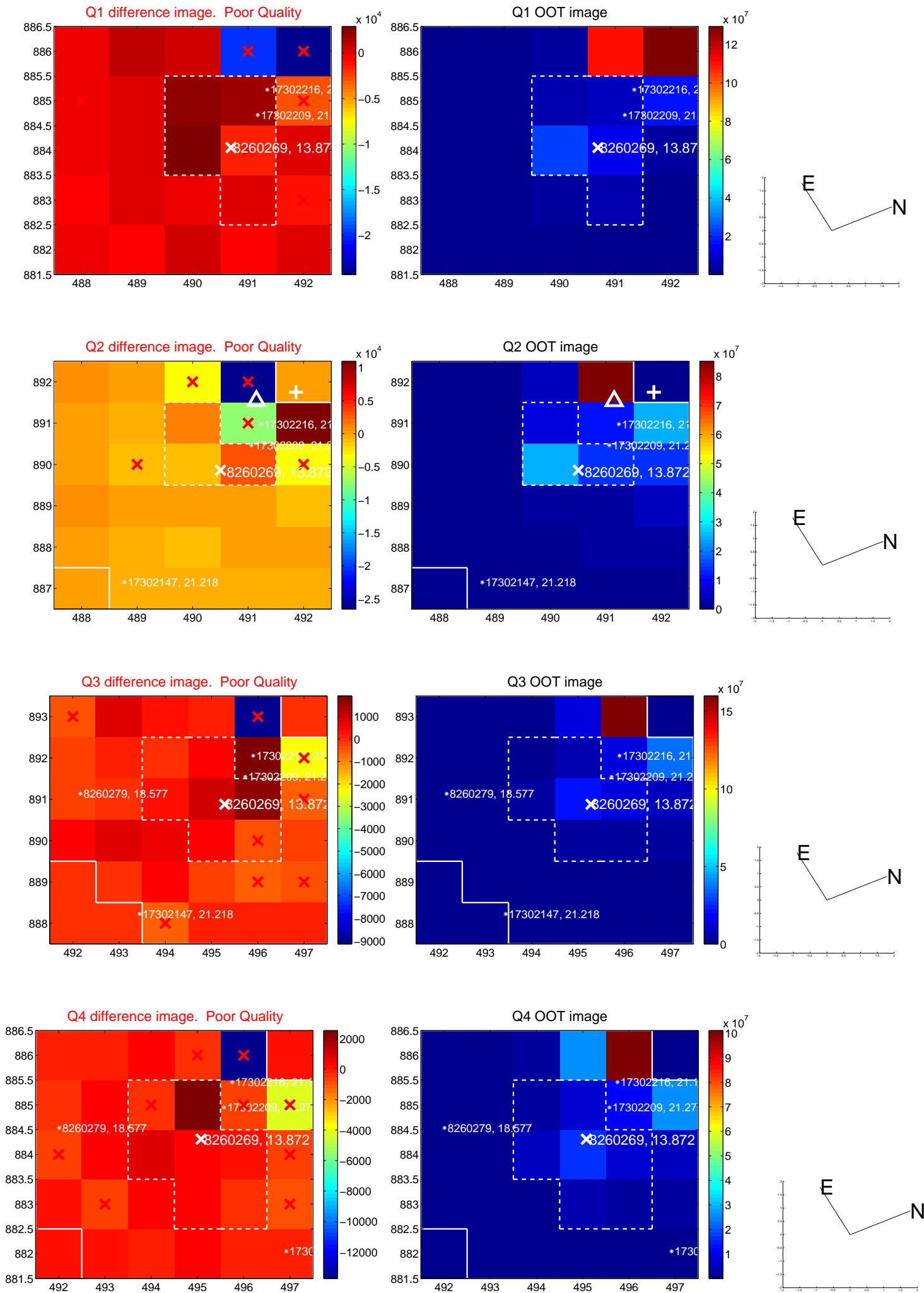


offset from photometric centroids

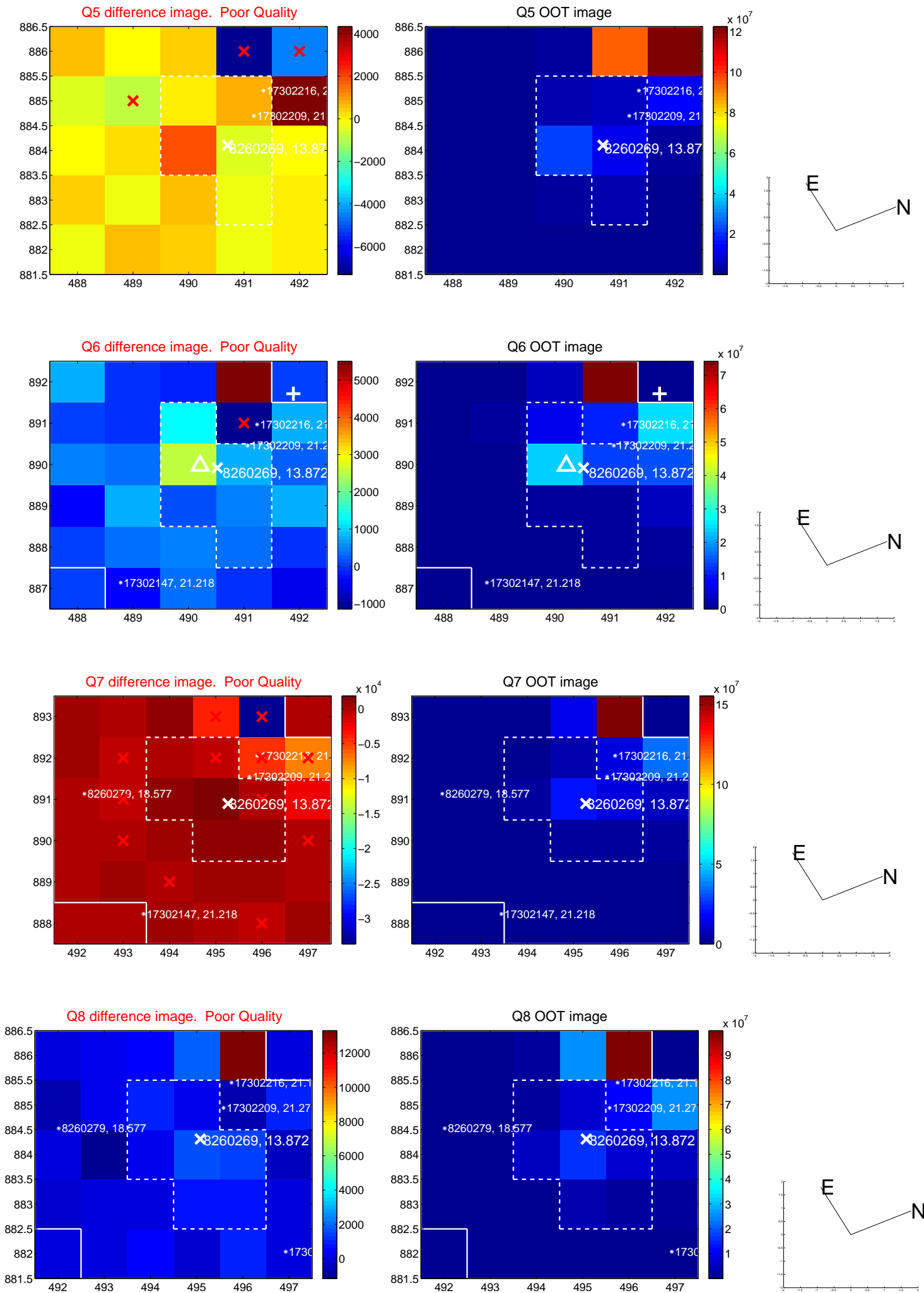


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

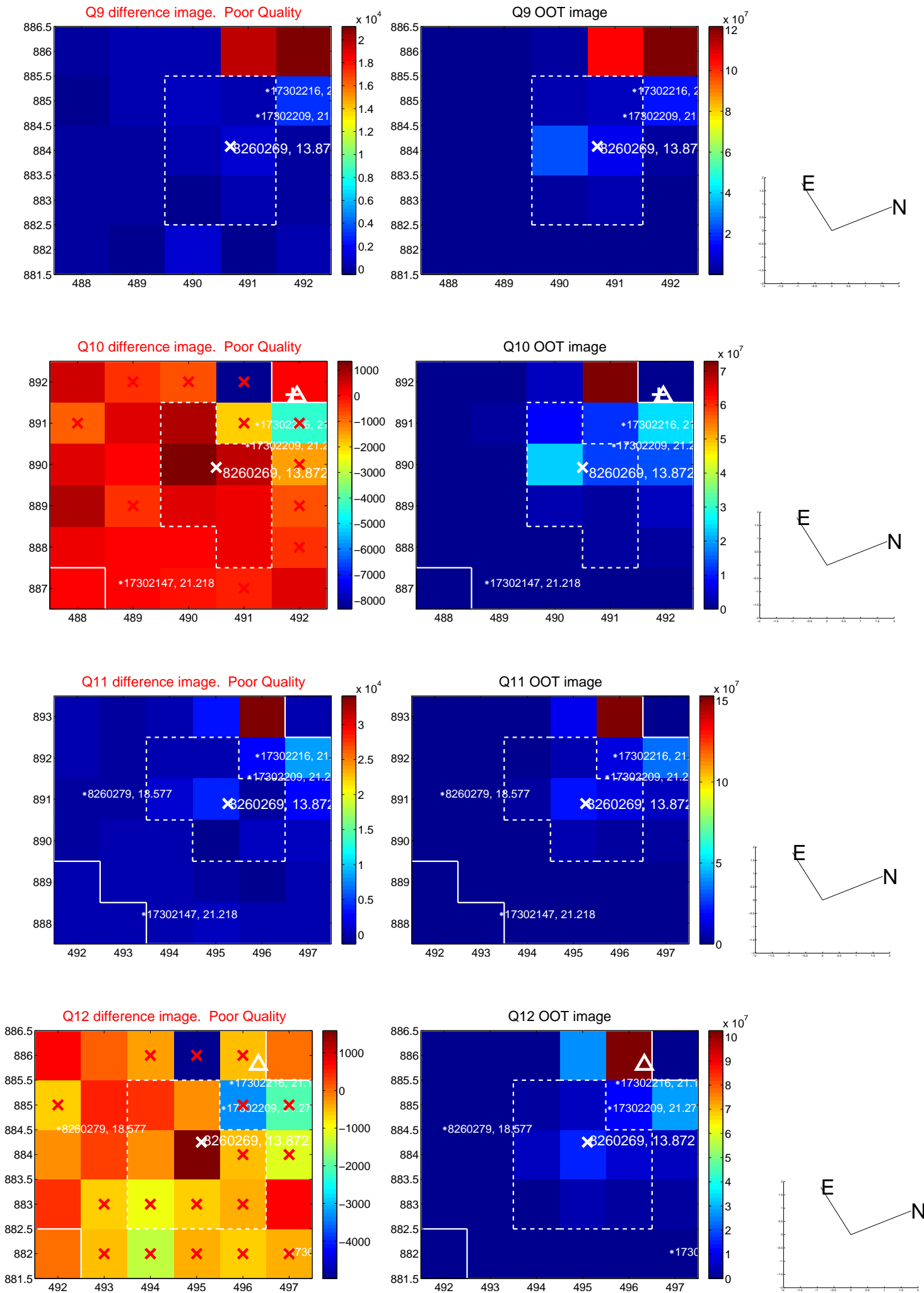
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



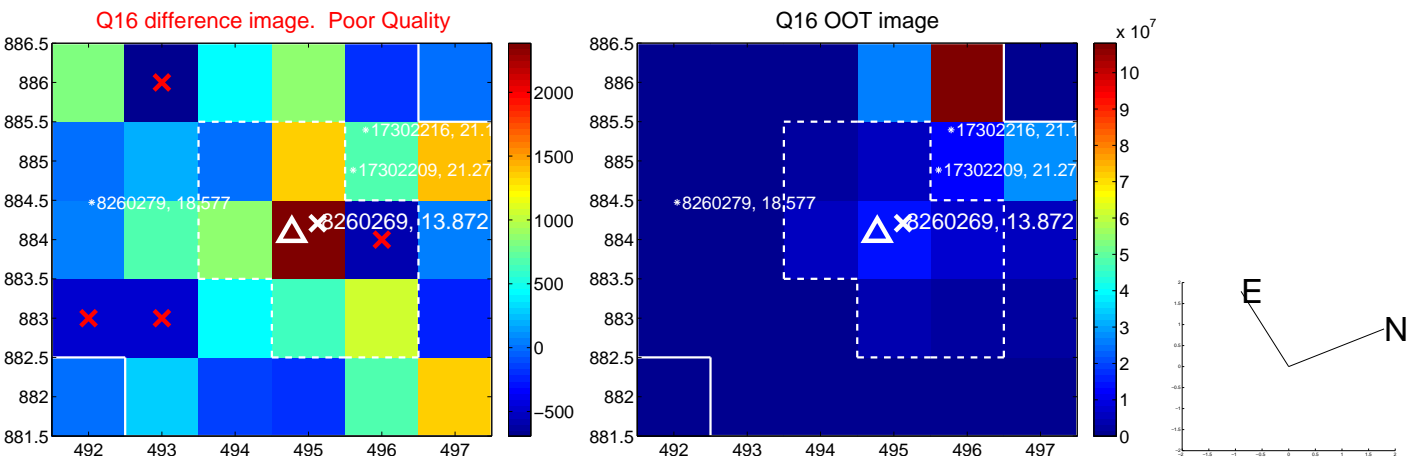
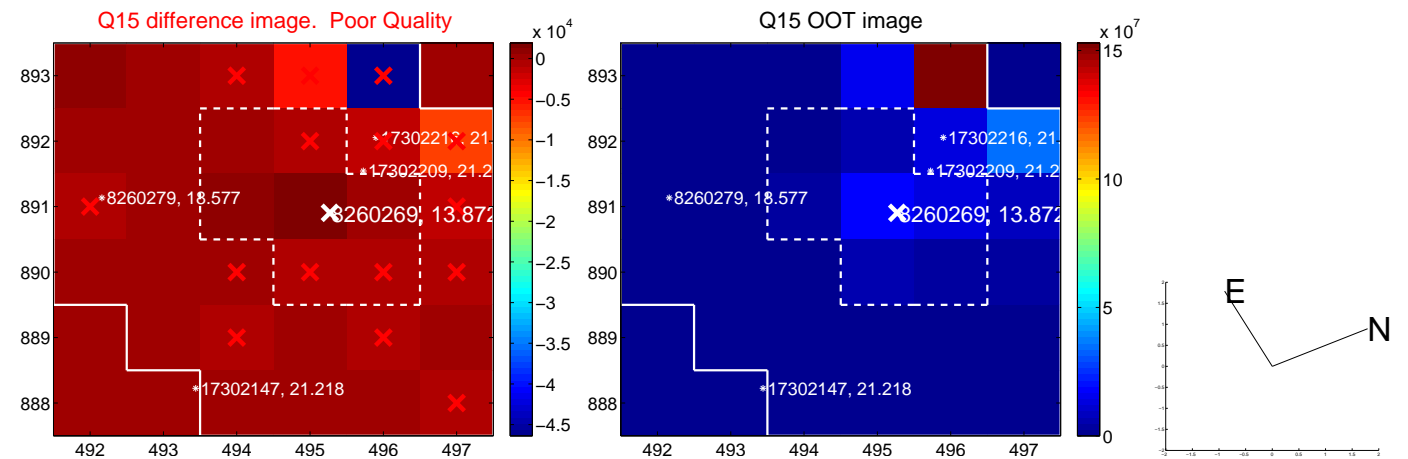
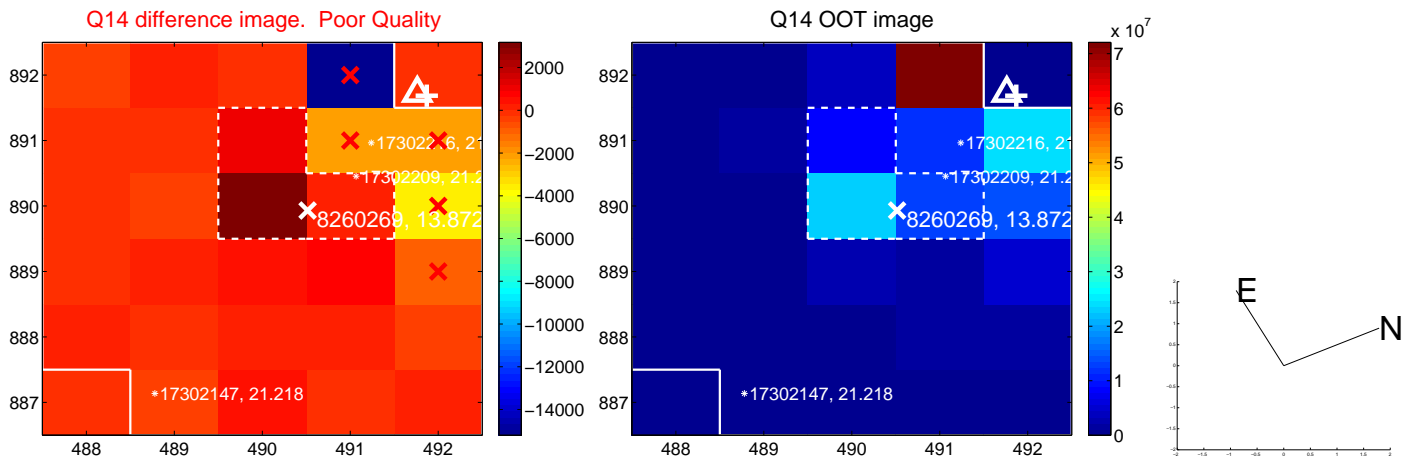
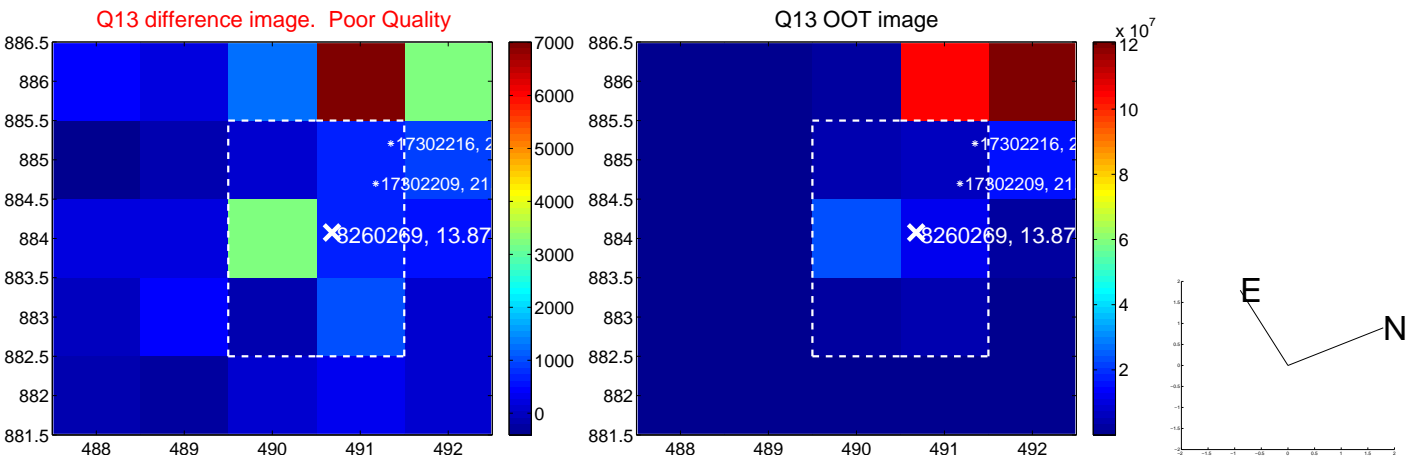
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



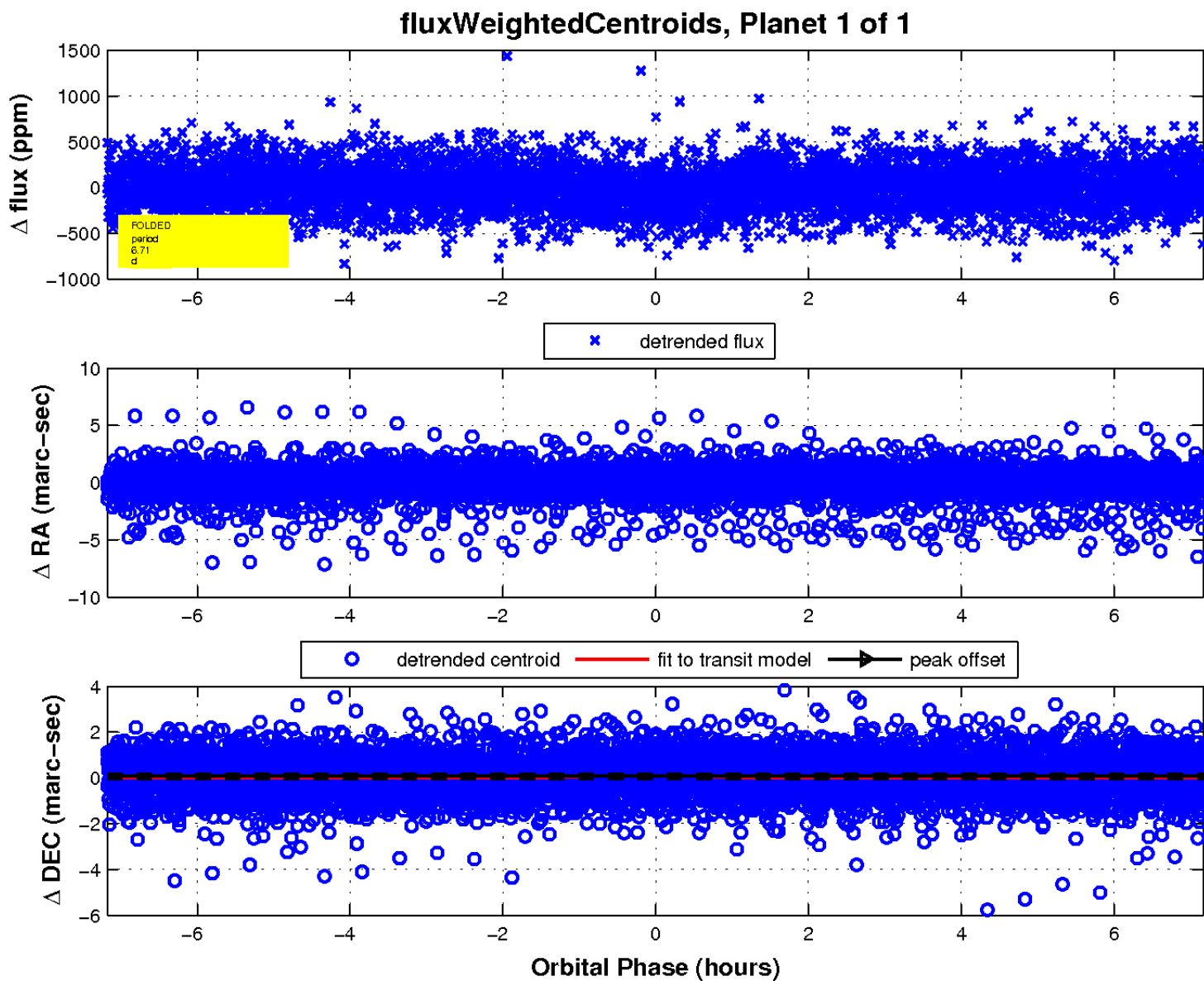
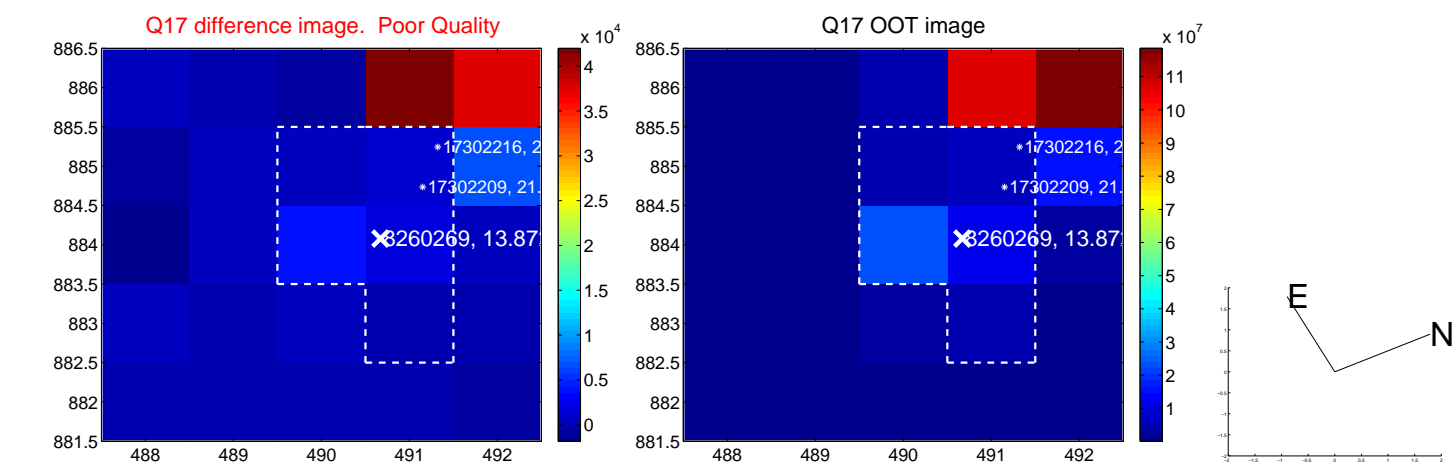
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UKIRT Image

