

KIC 008264583

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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

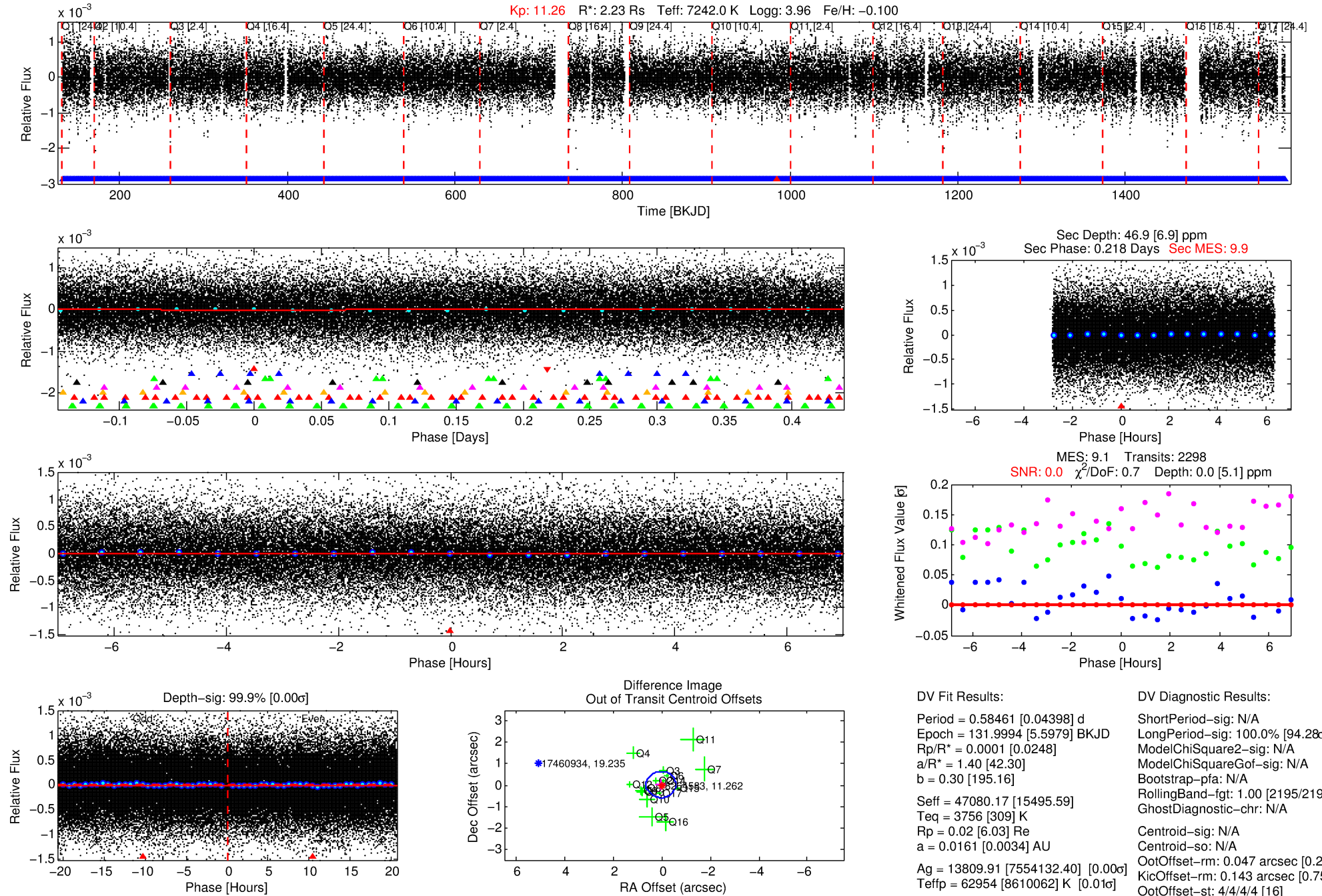
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-01

No Significant Match Found

DV One-Page Summary

KIC: 8264583 Candidate: 1 of 9 Period: 0.585 d



DV Fit Results:

Period = 0.58461 [0.04398] d
Epoch = 131.9994 [5.5979] BKJD
Rp/R* = 0.0001 [0.0248]
a/R* = 1.40 [42.30]
b = 0.30 [195.16]
Seff = 47080.17 [15495.59]
Teff = 3756 [309] K
Rp = 0.02 [6.03] Re
a = 0.0161 [0.0034] AU
Ag = 13809.91 [7554132.40] [0.00σ]
Teffp = 62954 [8610062] K [0.01σ]

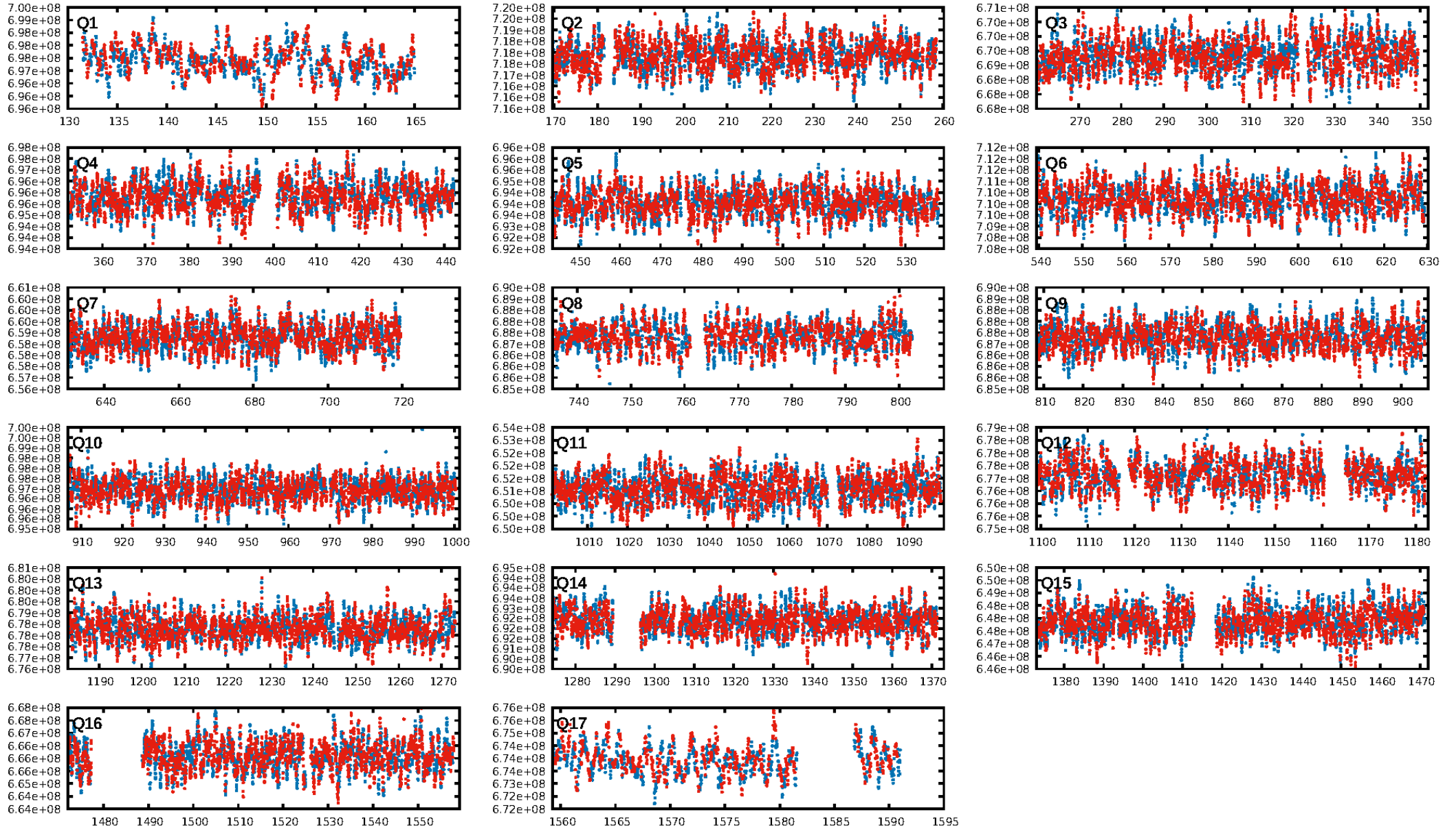
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [94.28σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2195/2196]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.047 arcsec [0.23σ]
KicOffset-rm: 0.143 arcsec [0.75σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.62 [10/16]
DiffImageOverlap-fno: 1.00 [17/17]

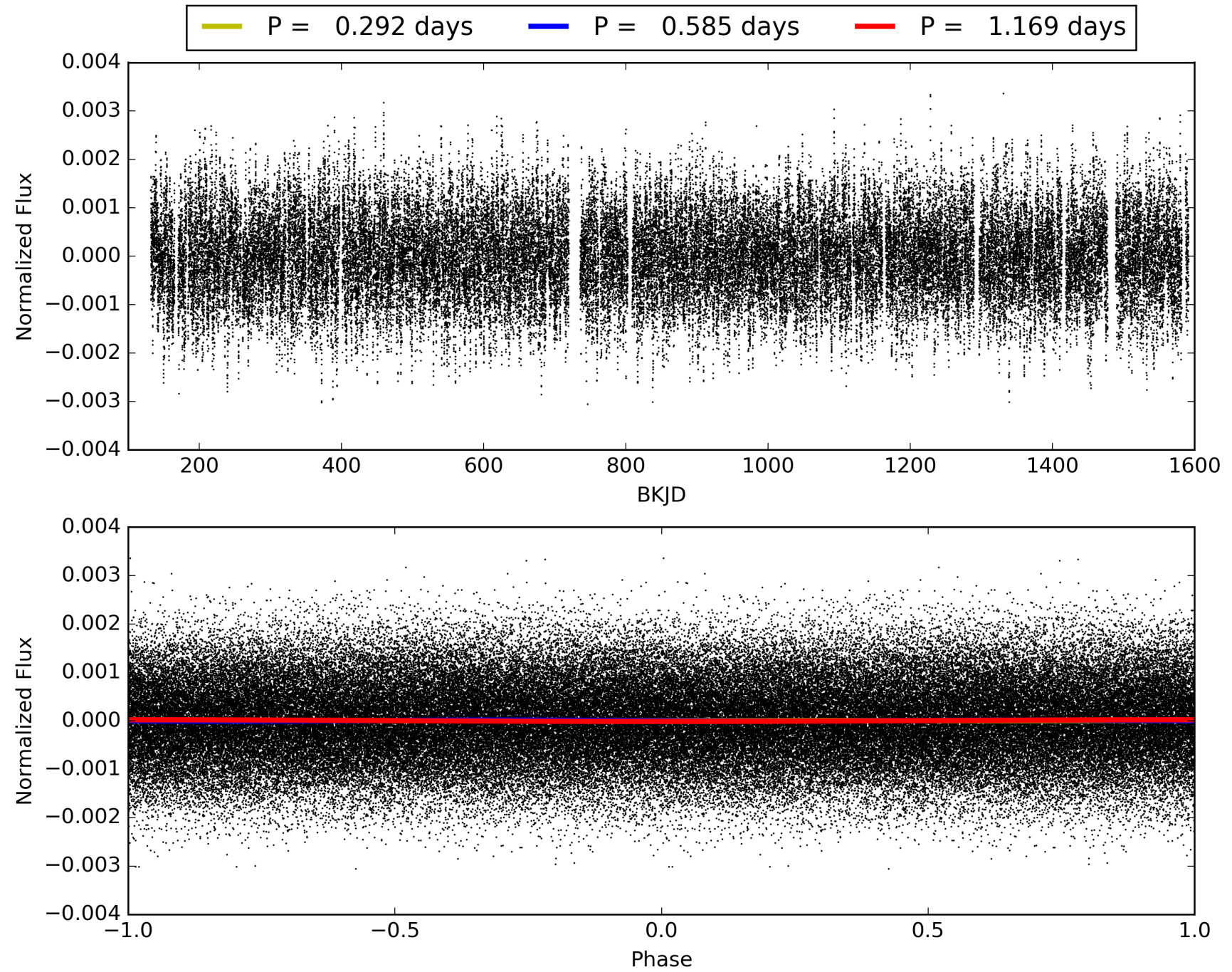
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264583-01, PDC Light Curves

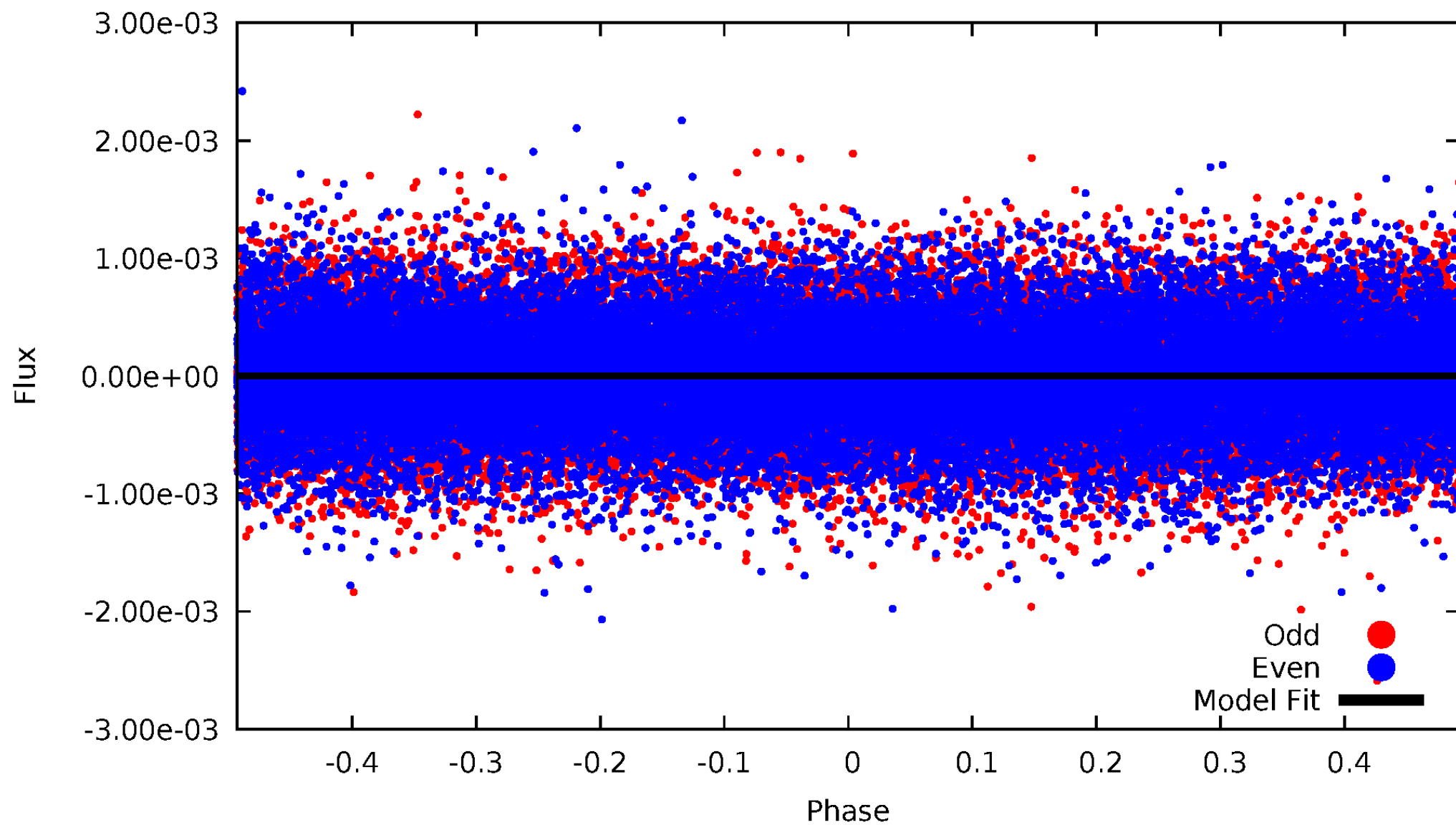


TCE 008264583-01



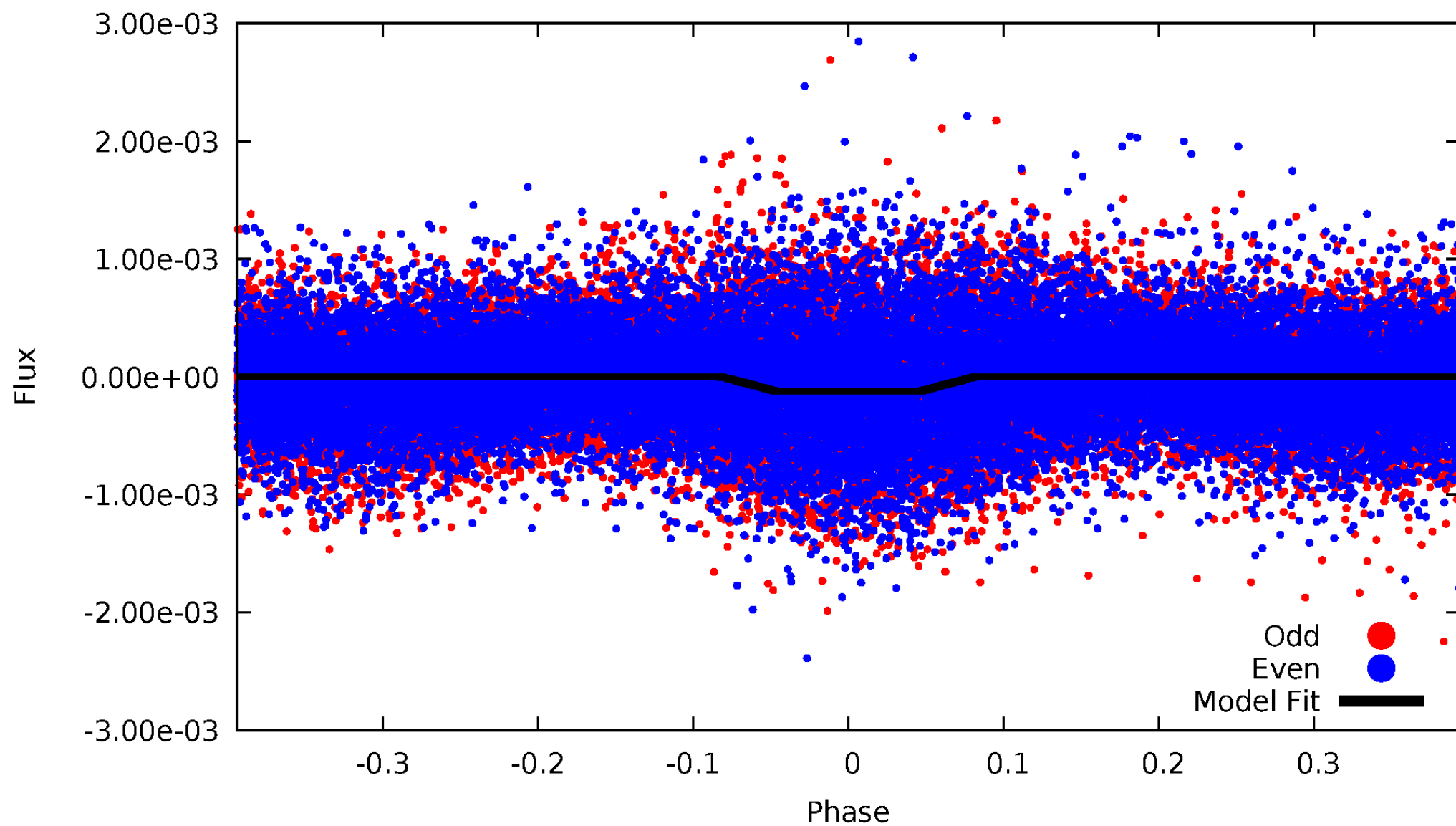
DV Odd/Even

TCE 008264583-01



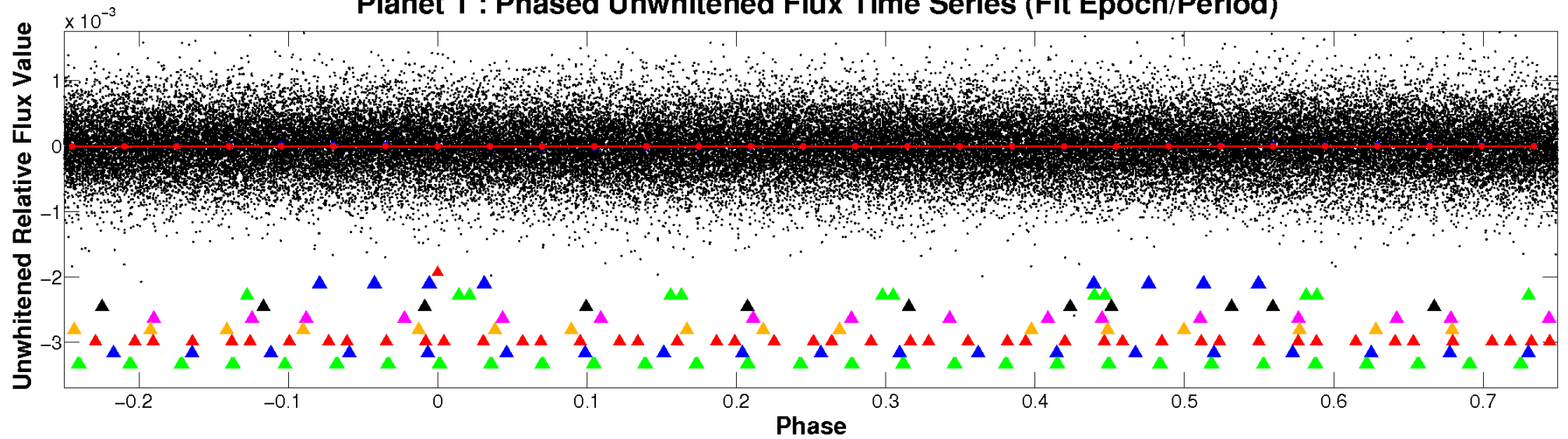
ALT Odd/Even

TCE 008264583-01

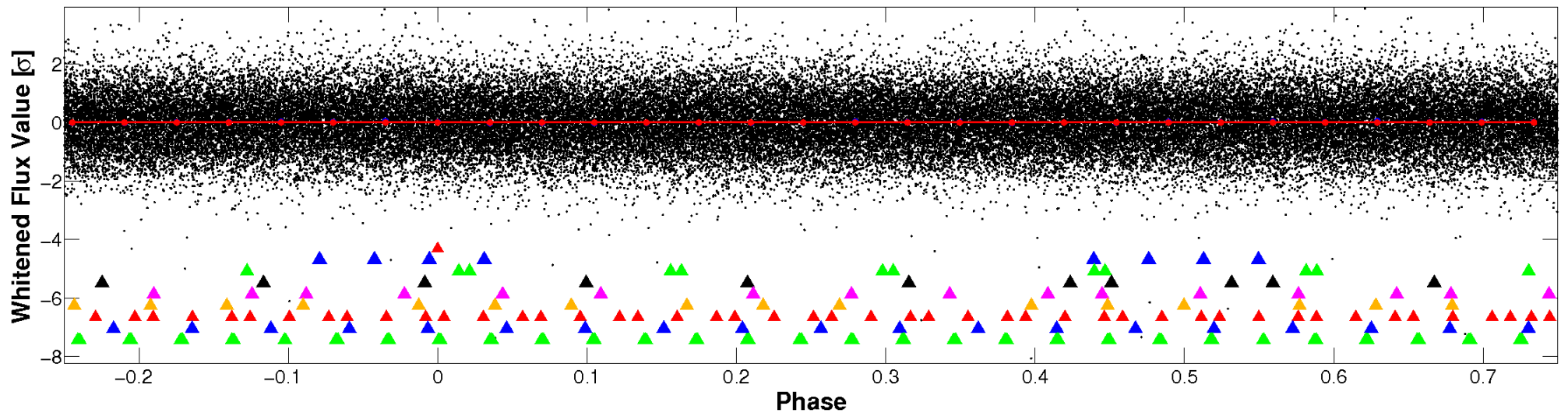


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

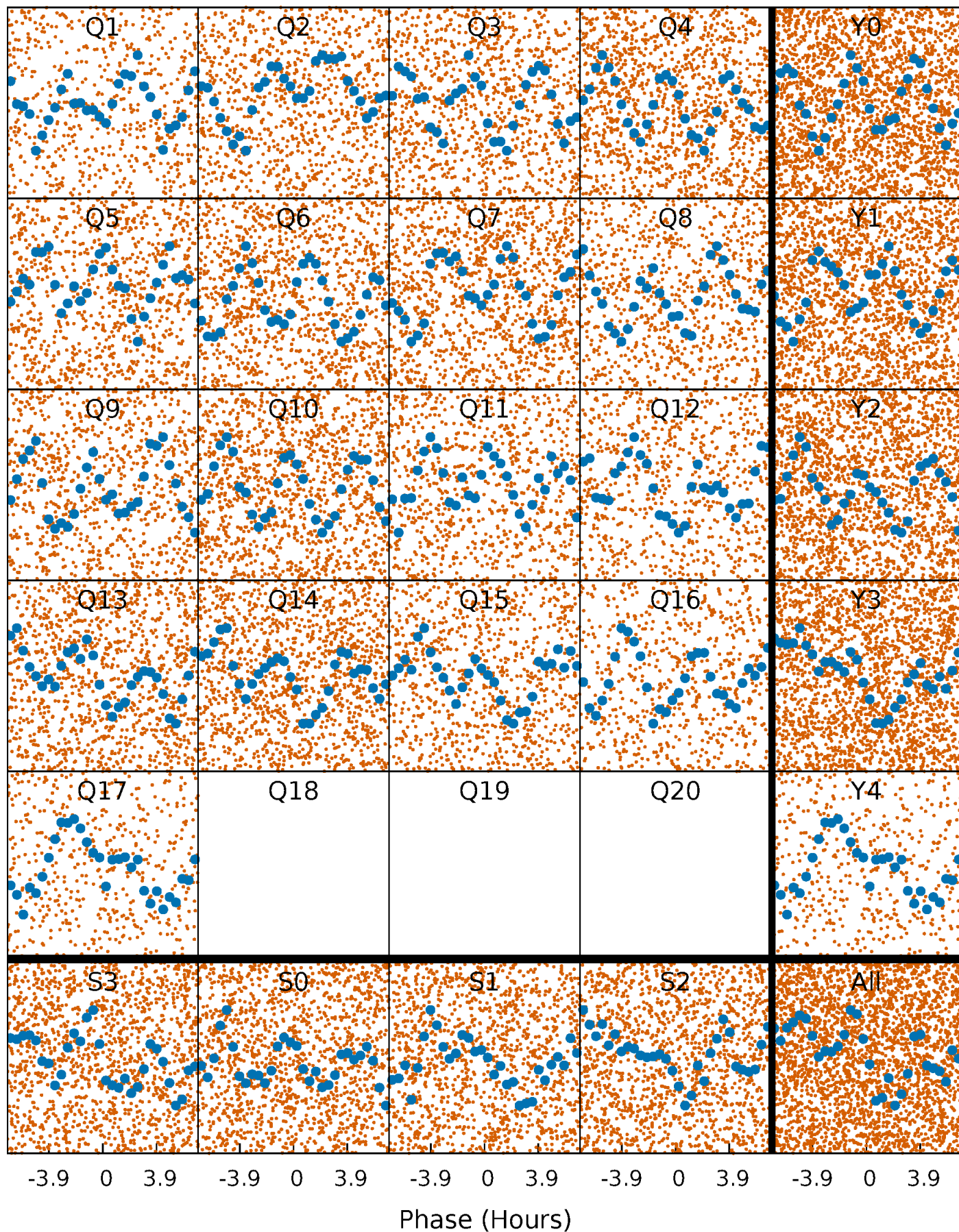


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



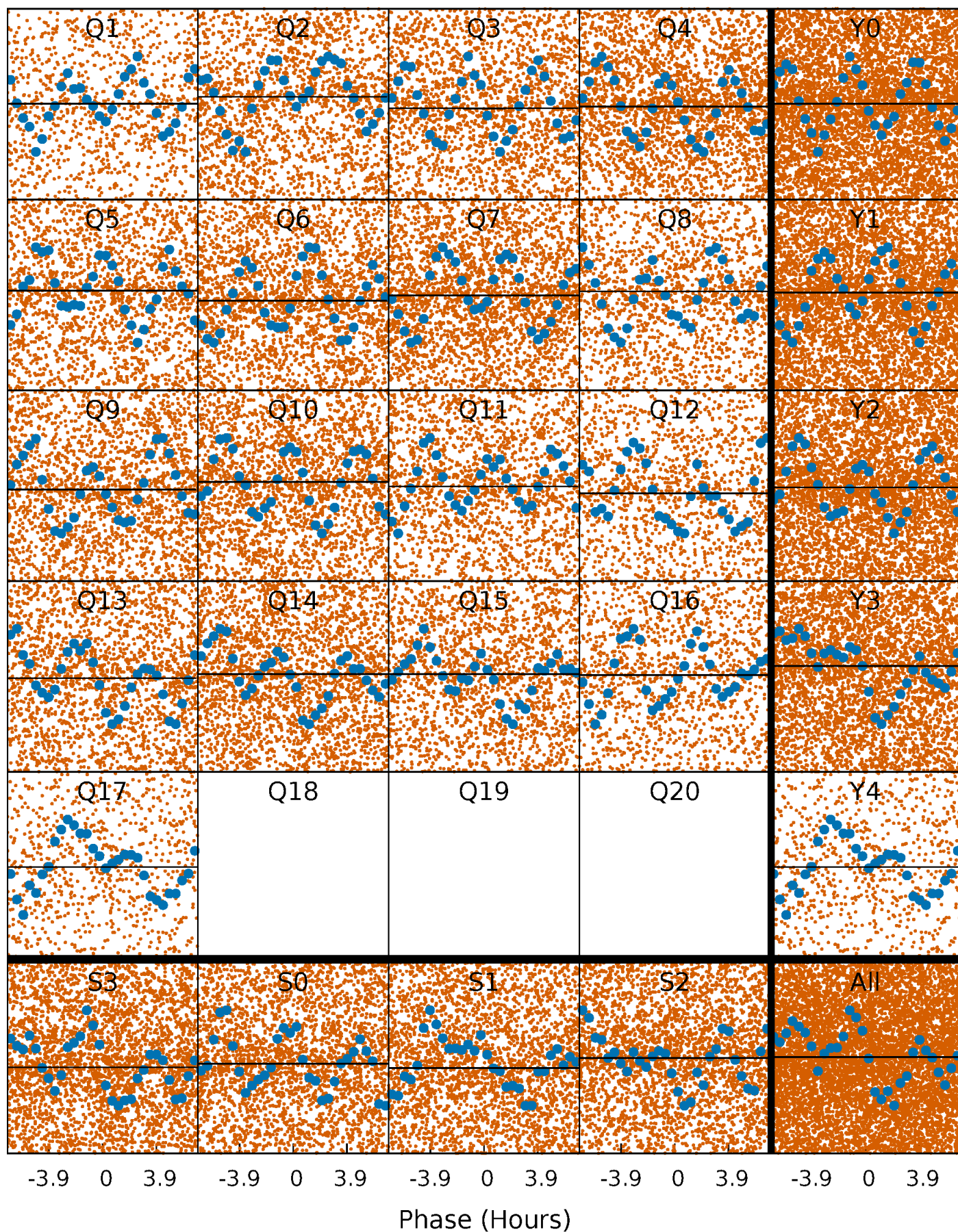
PDC Quarter-Phased Transit Curves

TCE 008264583-01 P= 0.584612 Days $T_0=131.999419$ (BKJD)



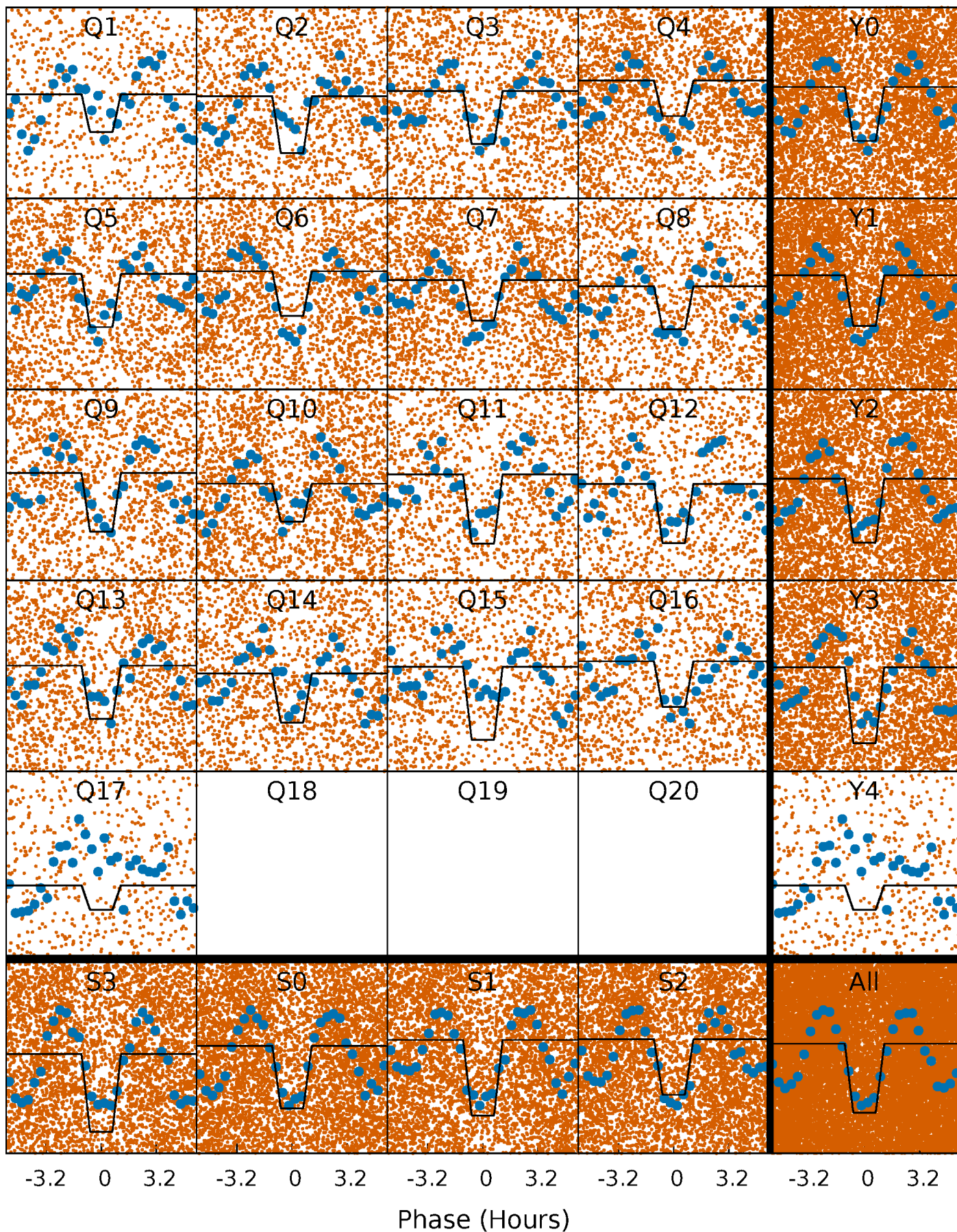
DV Quarter-Phased Transit Curves

TCE 008264583-01 P= 0.584612 Days $T_0=131.999419$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

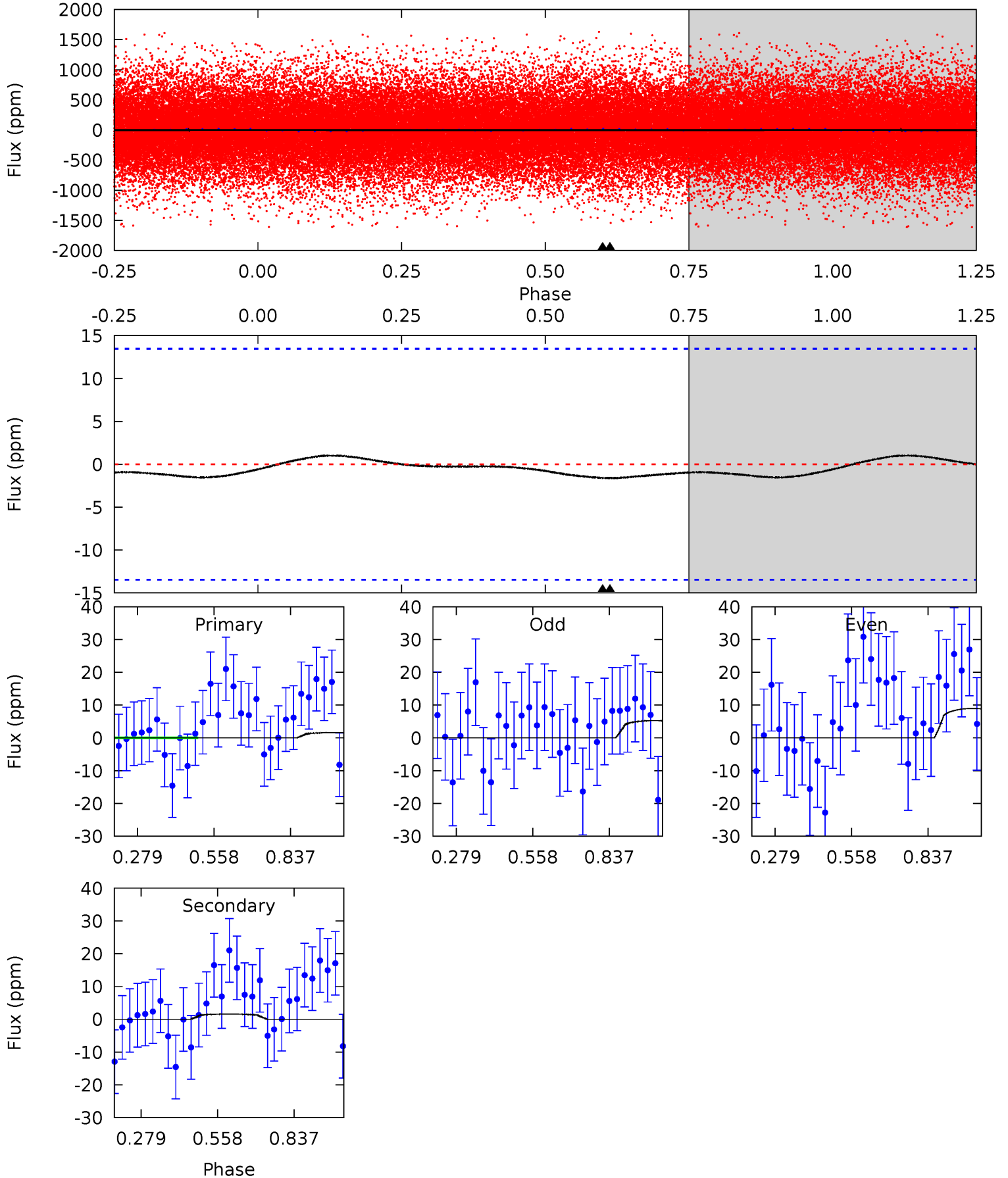
TCE 008264583-01 P= 0.584839 Days $T_0=131.974122$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-01, P = 0.584612 Days, E = 131.414807 Days

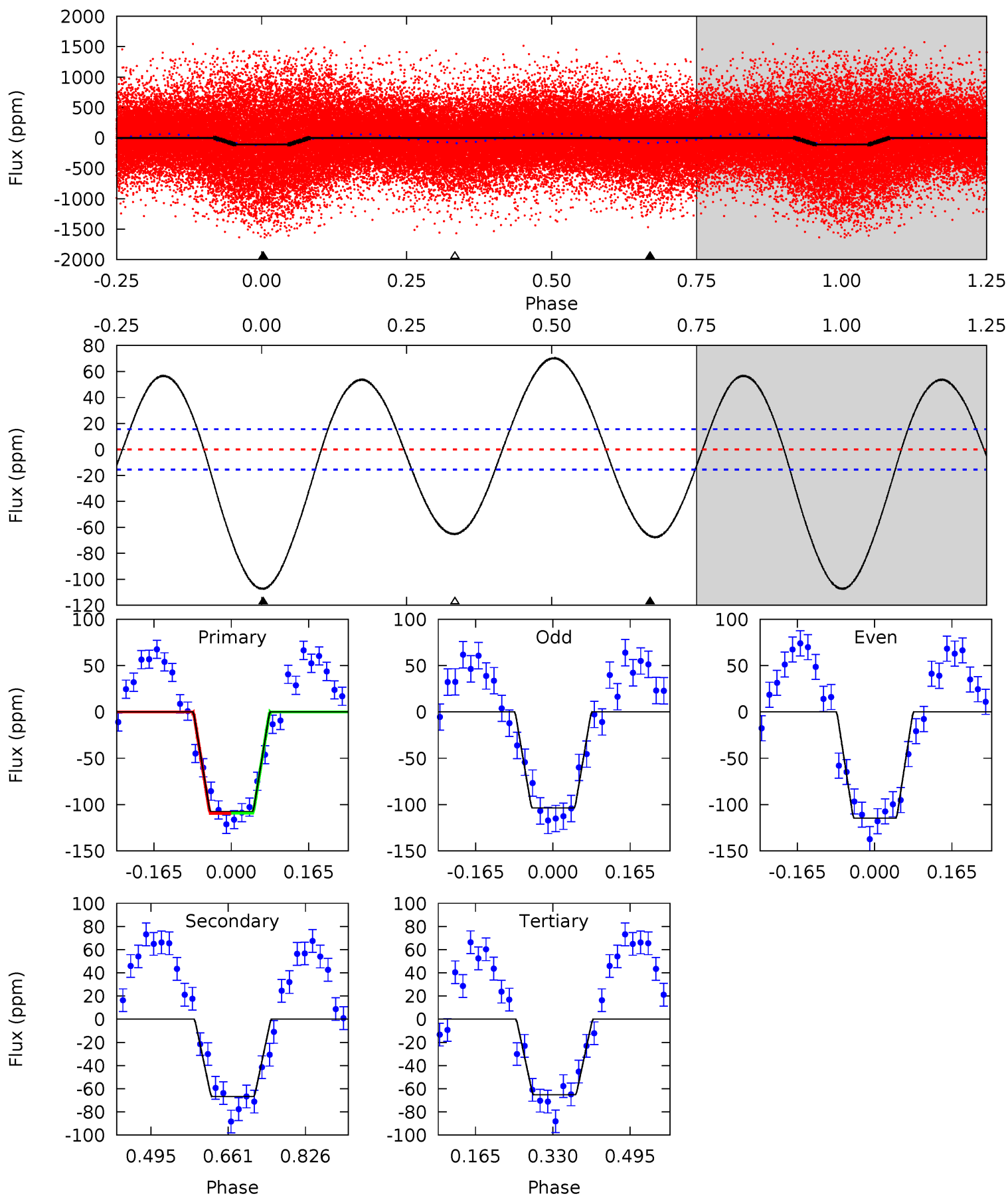
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.52	0.51	0	0	4.34	1.08	0.26	0.52	0.52	0.51	0.51	0.61	0.17	0.39	0.60



Alt Model-Shift Uniqueness Test

008264583-01, P = 0.584839 Days, E = 131.389283 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.9	19.2	18.8	0	4.46	1.39	13.2	12.1	30.9	0.45	19.2	1.56	0.93	0.40	0.04



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-2 ± 3	$3.98^{+4.21}_{-2.68}$	5233^{+302}_{-368}	-4370^{+435}_{-294}	$0.009^{+0.102}_{-0.021}$
Alt.	-67 ± 3	$5.20^{+5.27}_{-3.52}$	5247^{+274}_{-345}	3271^{+4343}_{-7461}	$0.349^{+3.058}_{-0.263}$

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 $A_{obs} \gg 1.0$

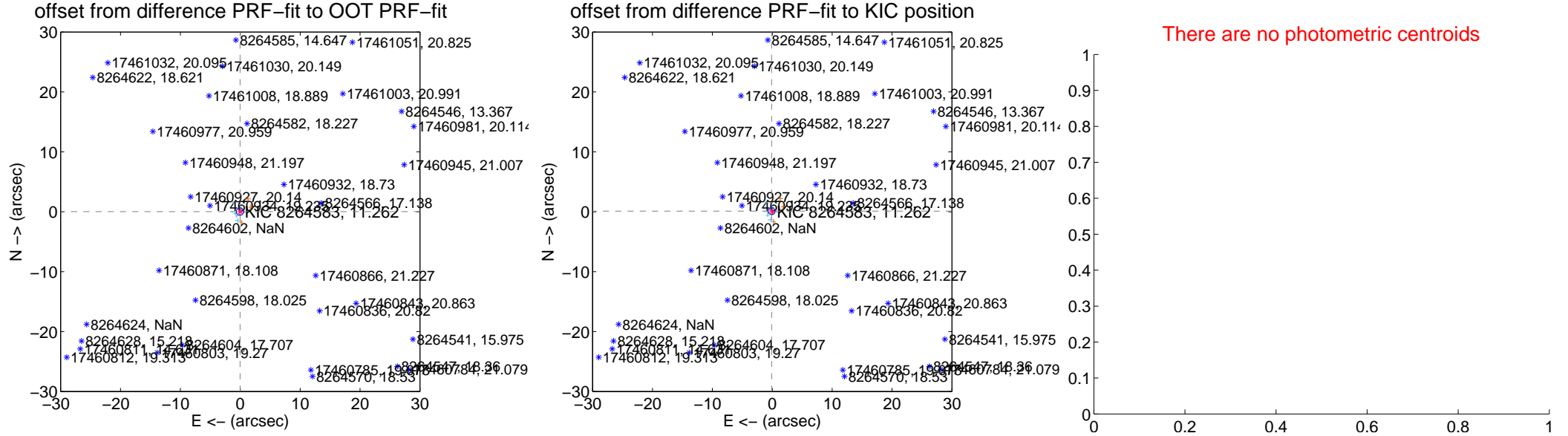
DV Centroid Data

Supplemental centroid analysis for 008264583-01. **Kepler magnitude: 11.26.** Transit SNR 0.00

There are 10 quarters with good PRF difference image offsets

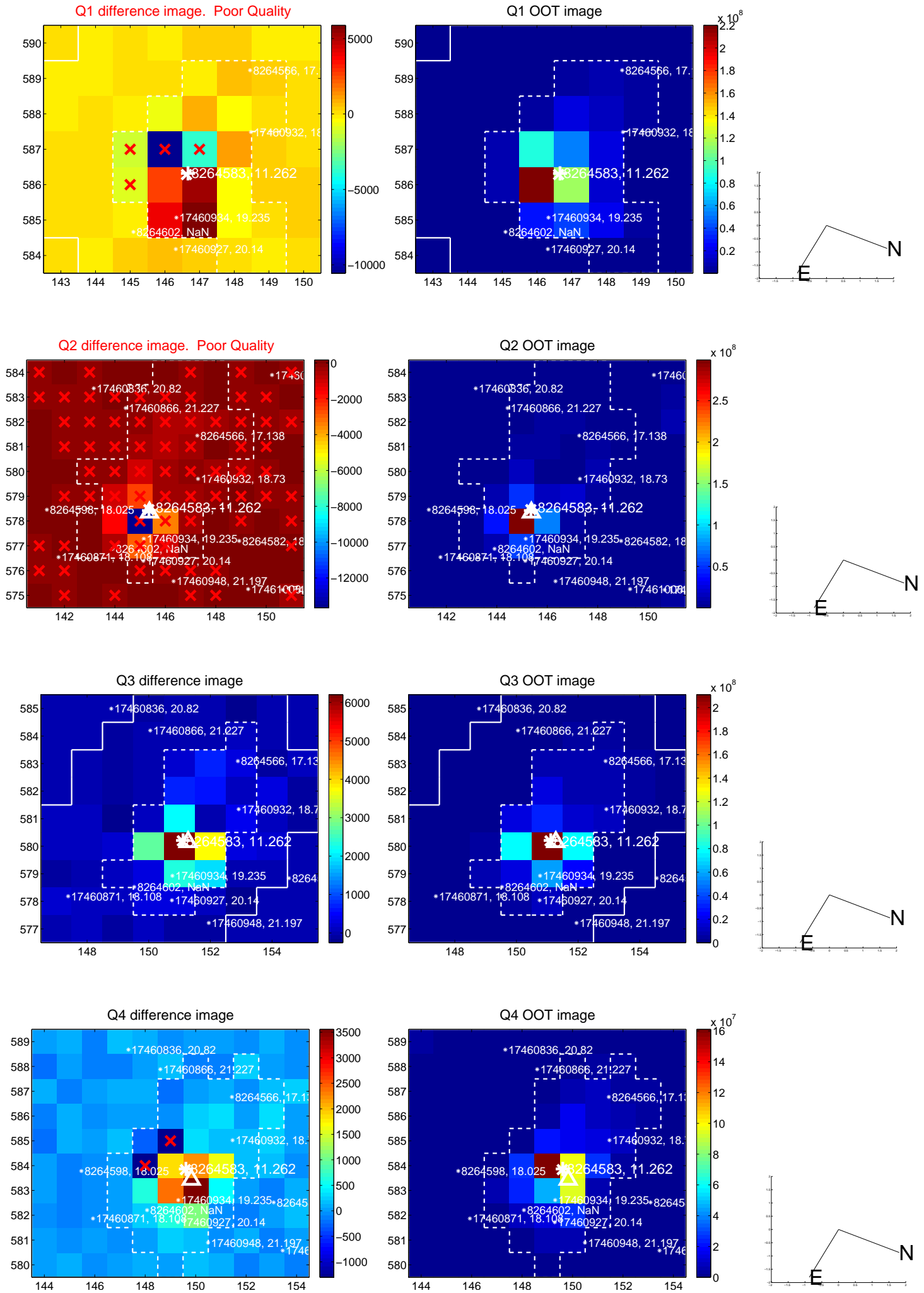
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.047 ± 0.204	0.23	0.041 ± 0.228	0.022 ± 0.247
PRF-fit source offset from KIC position	0.143 ± 0.189	0.75	0.101 ± 0.221	0.101 ± 0.236
photometric centroid source offset	—	—	—	—

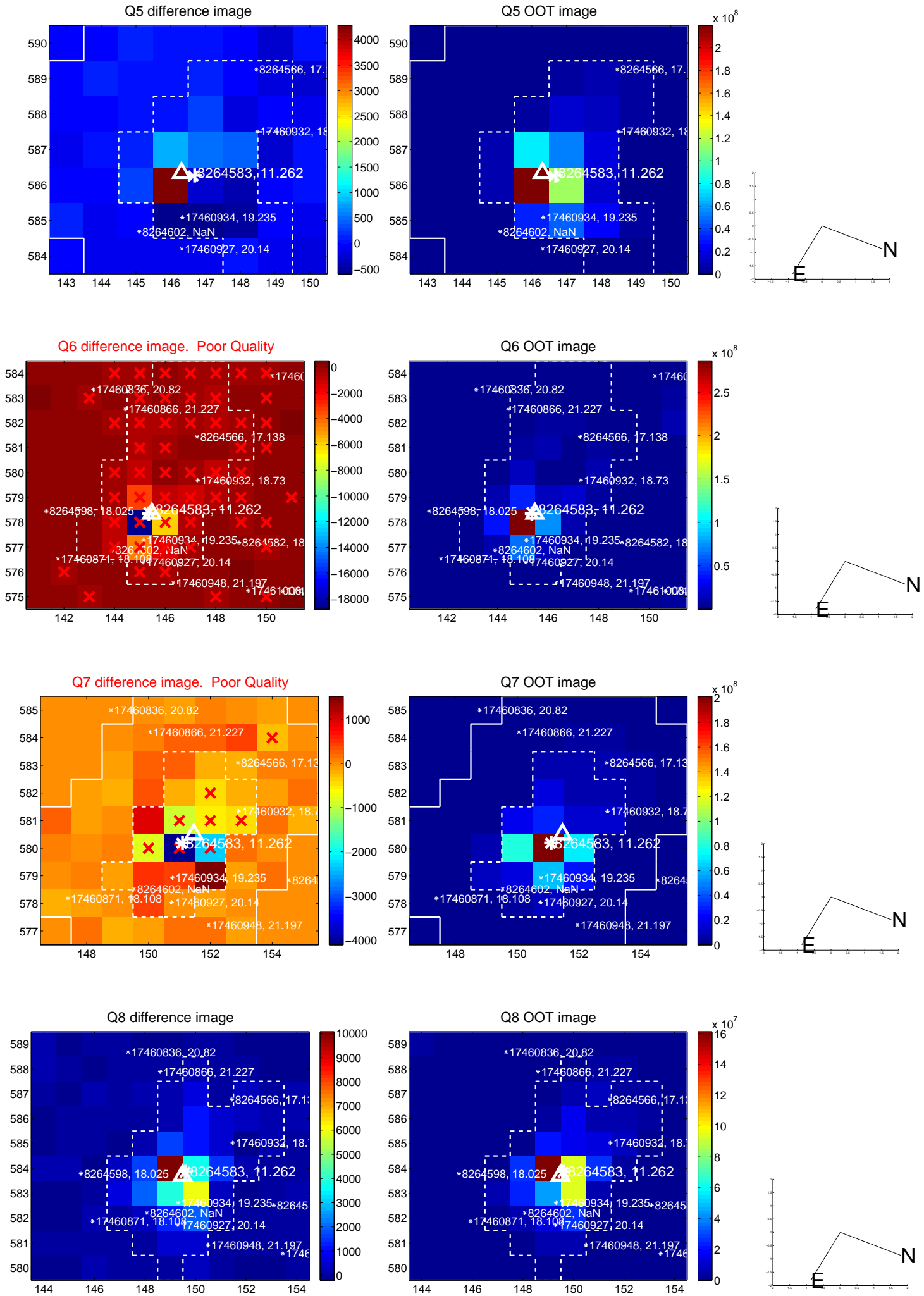


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

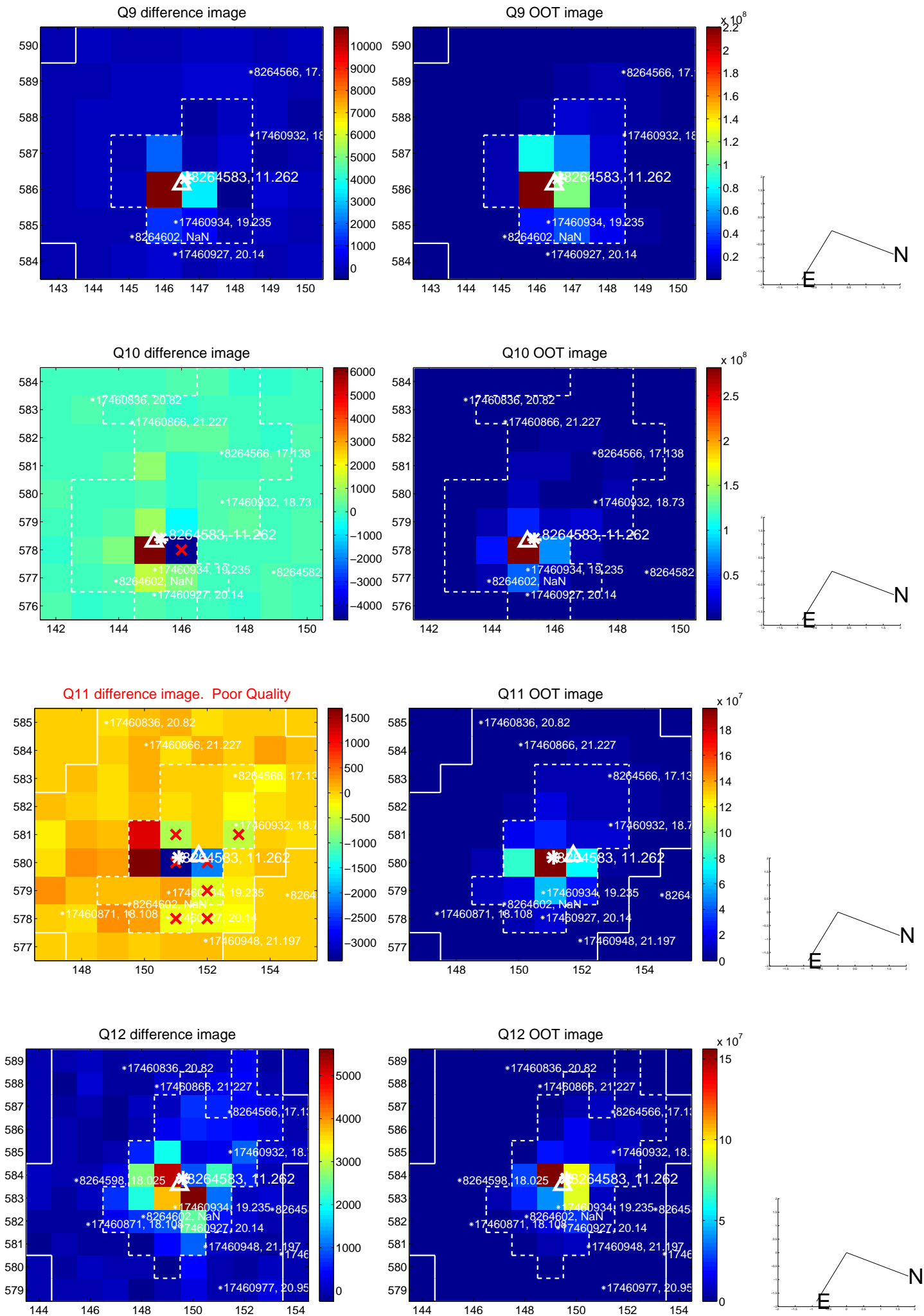
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



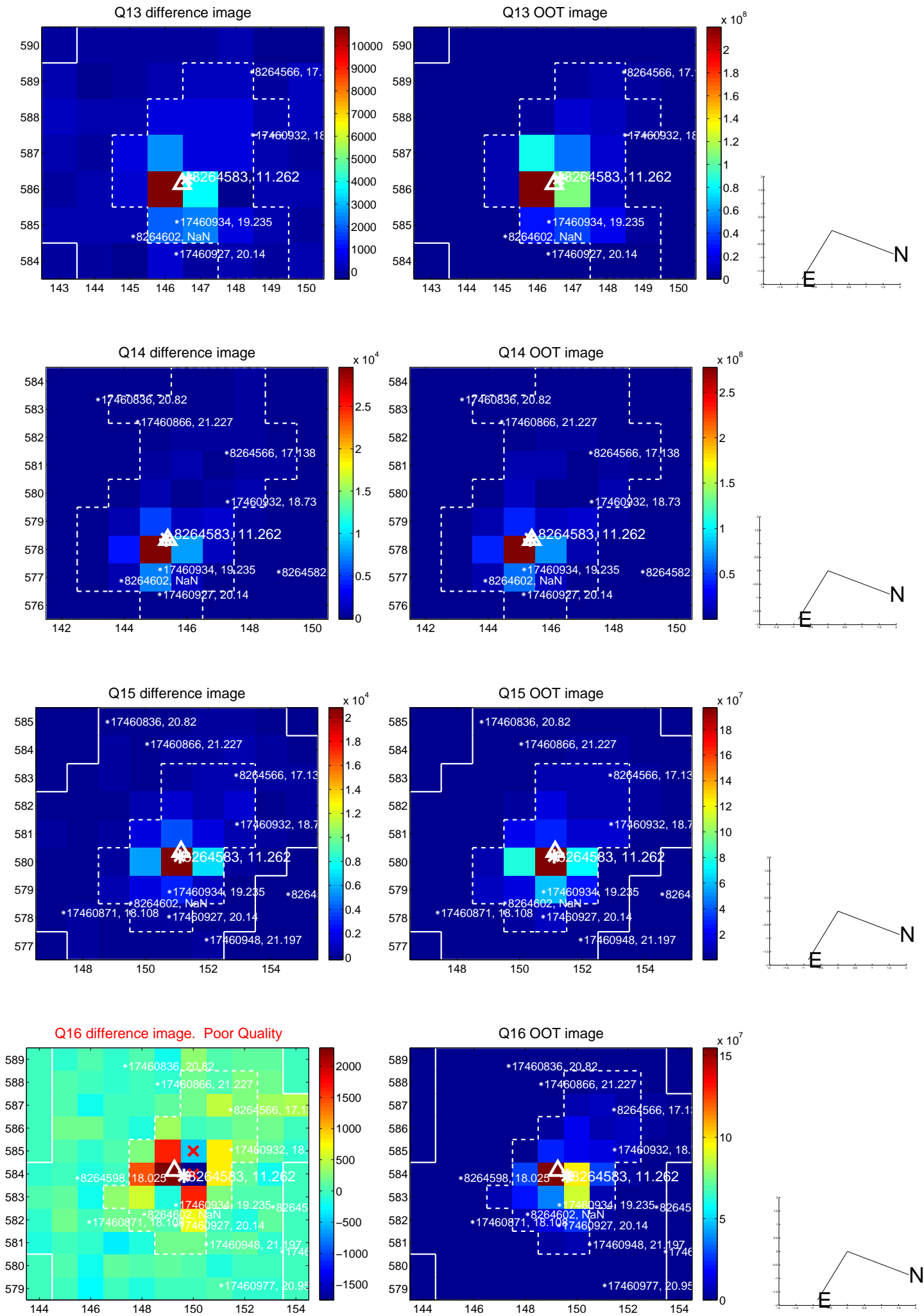
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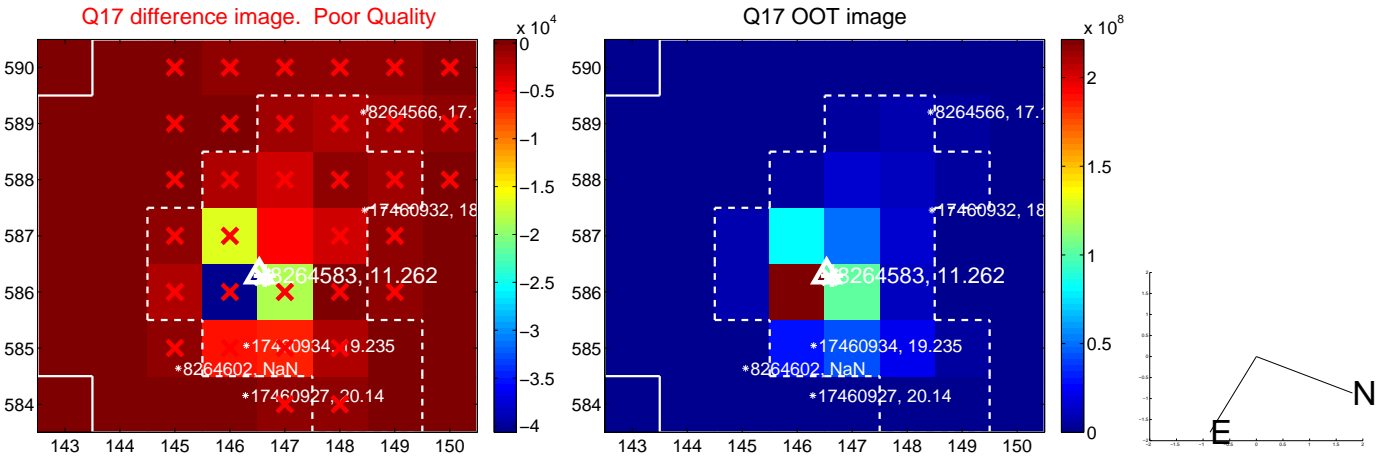
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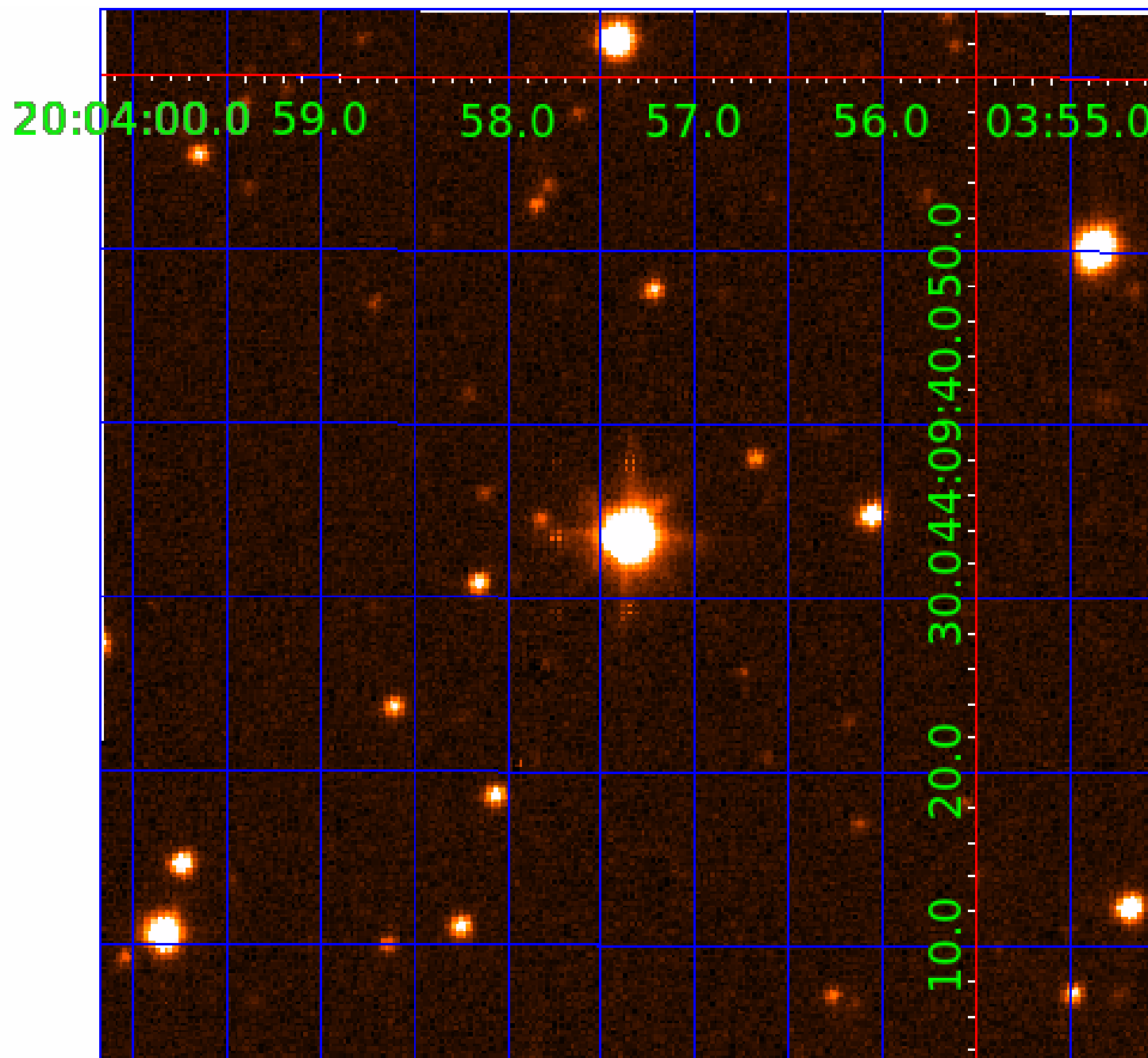
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 008264583

Q1-17 DR25 TCE Parameters

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008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

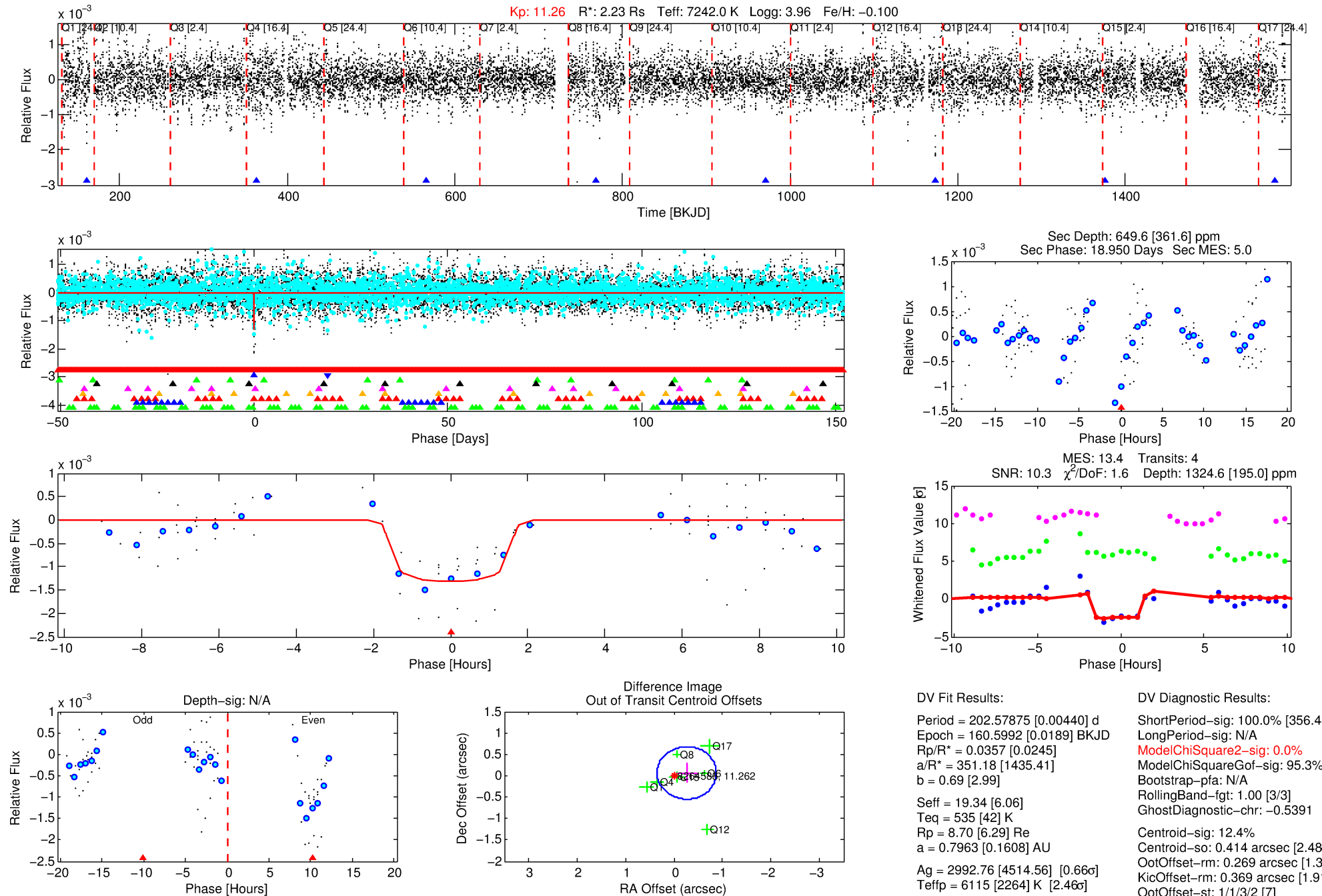
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-02

No Significant Match Found

DV One-Page Summary

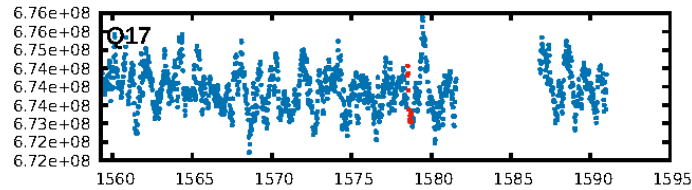
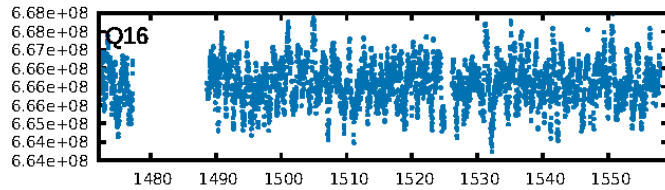
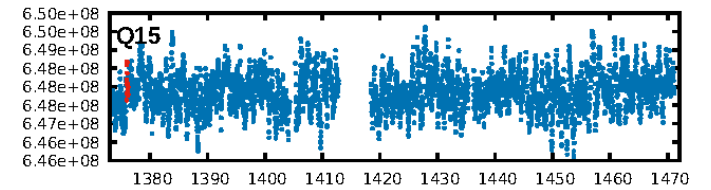
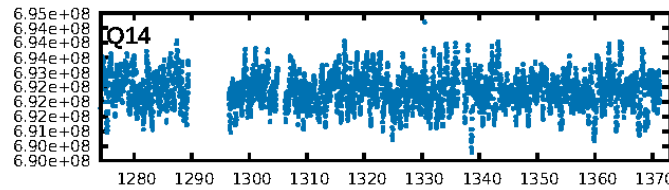
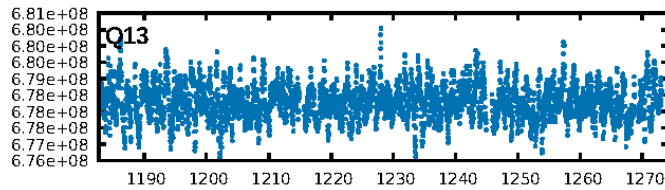
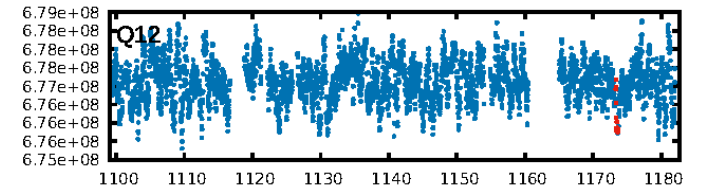
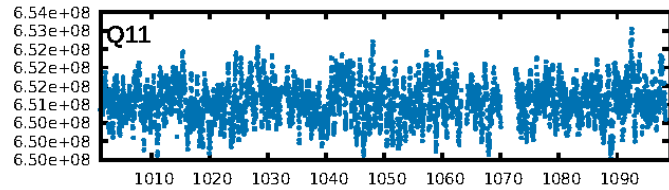
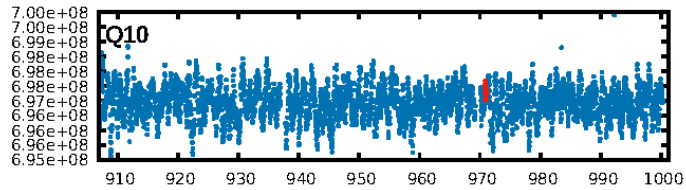
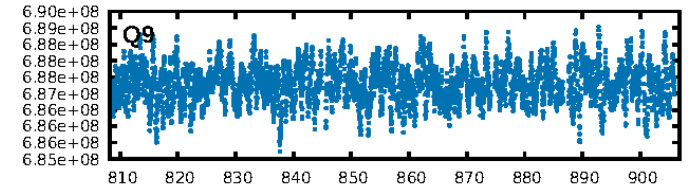
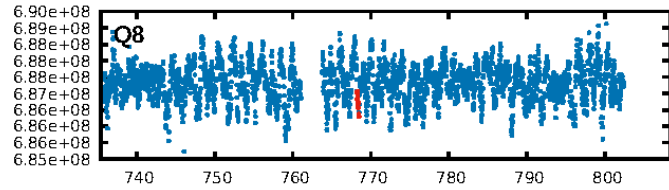
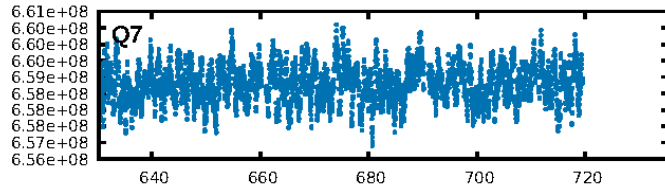
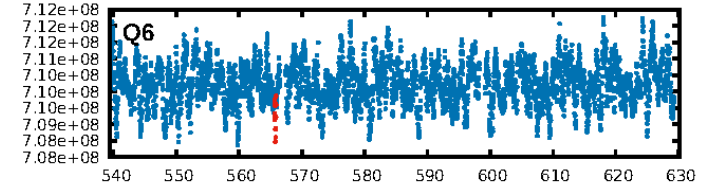
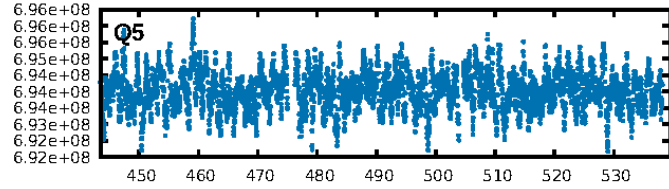
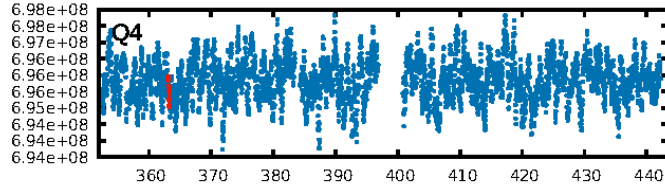
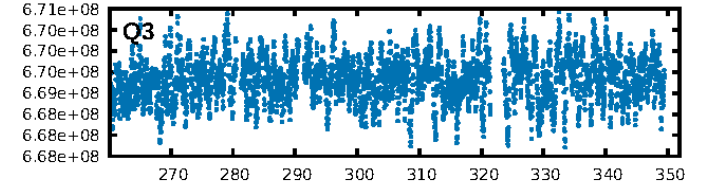
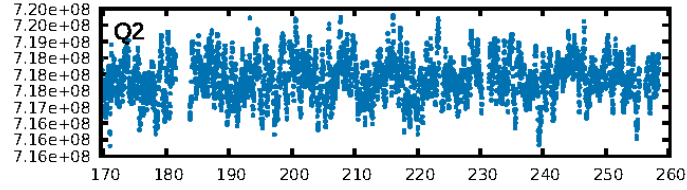
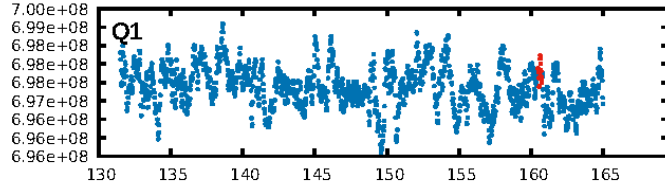
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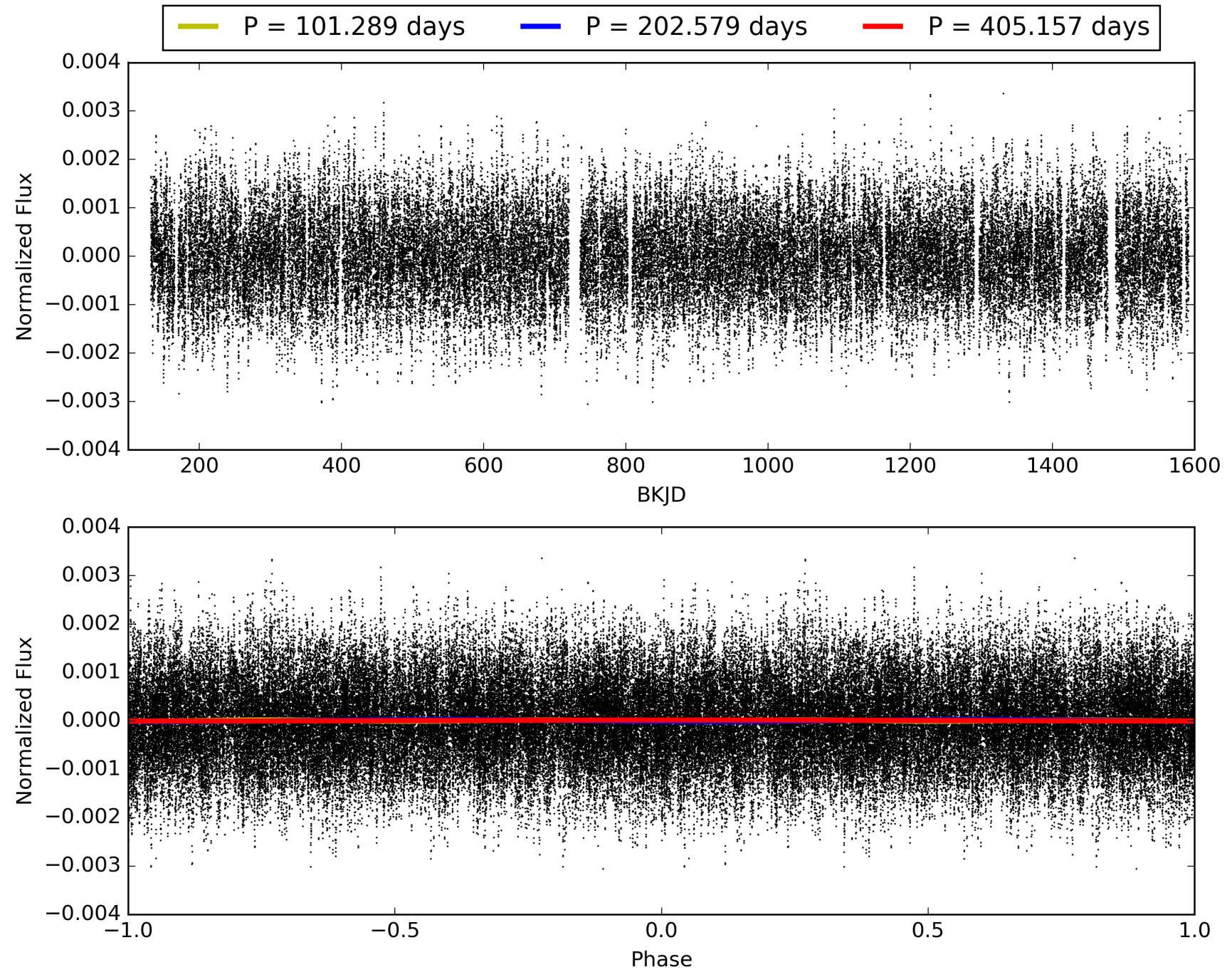
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008264583-02, PDC Light Curves

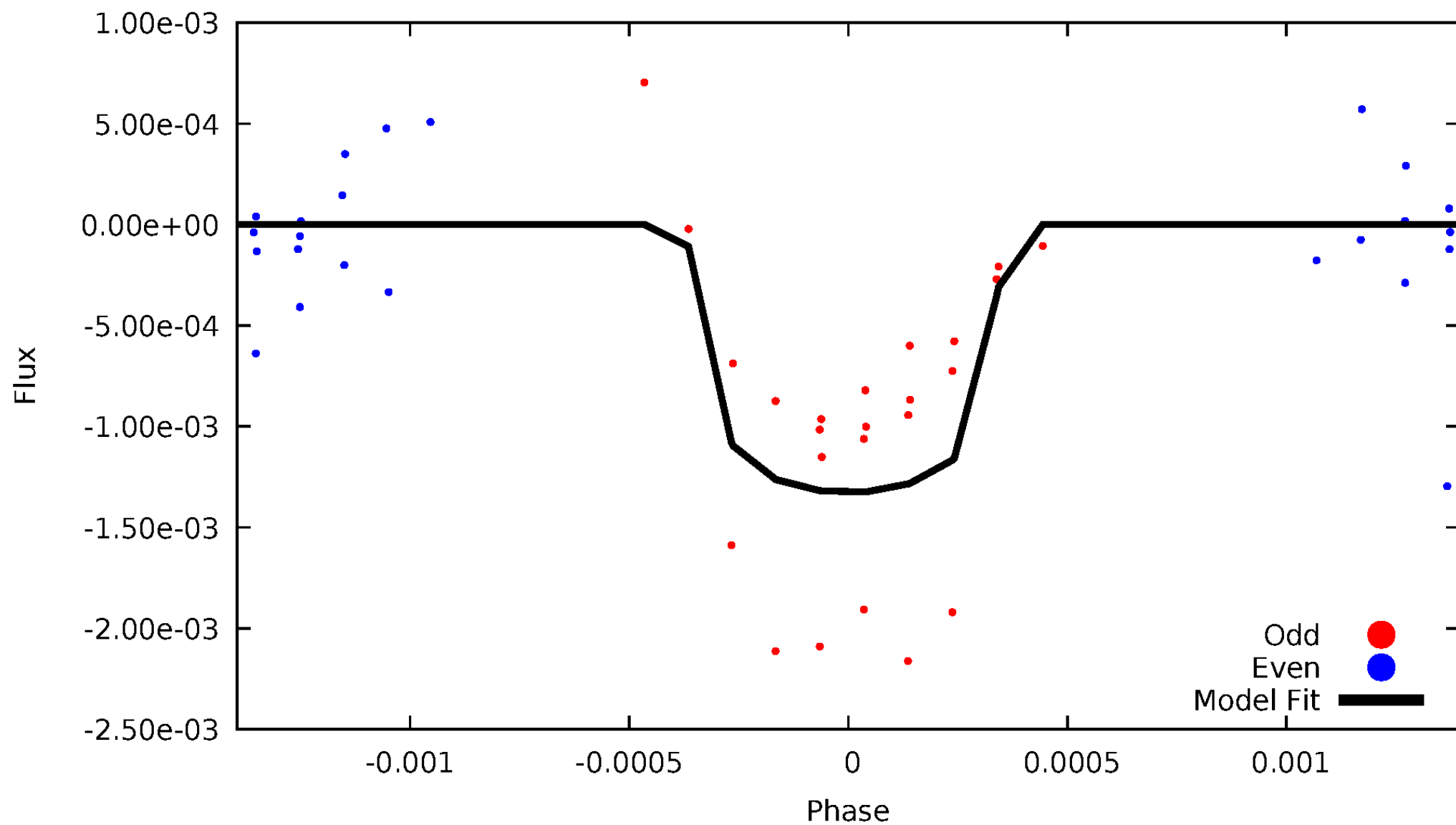


TCE 008264583-02



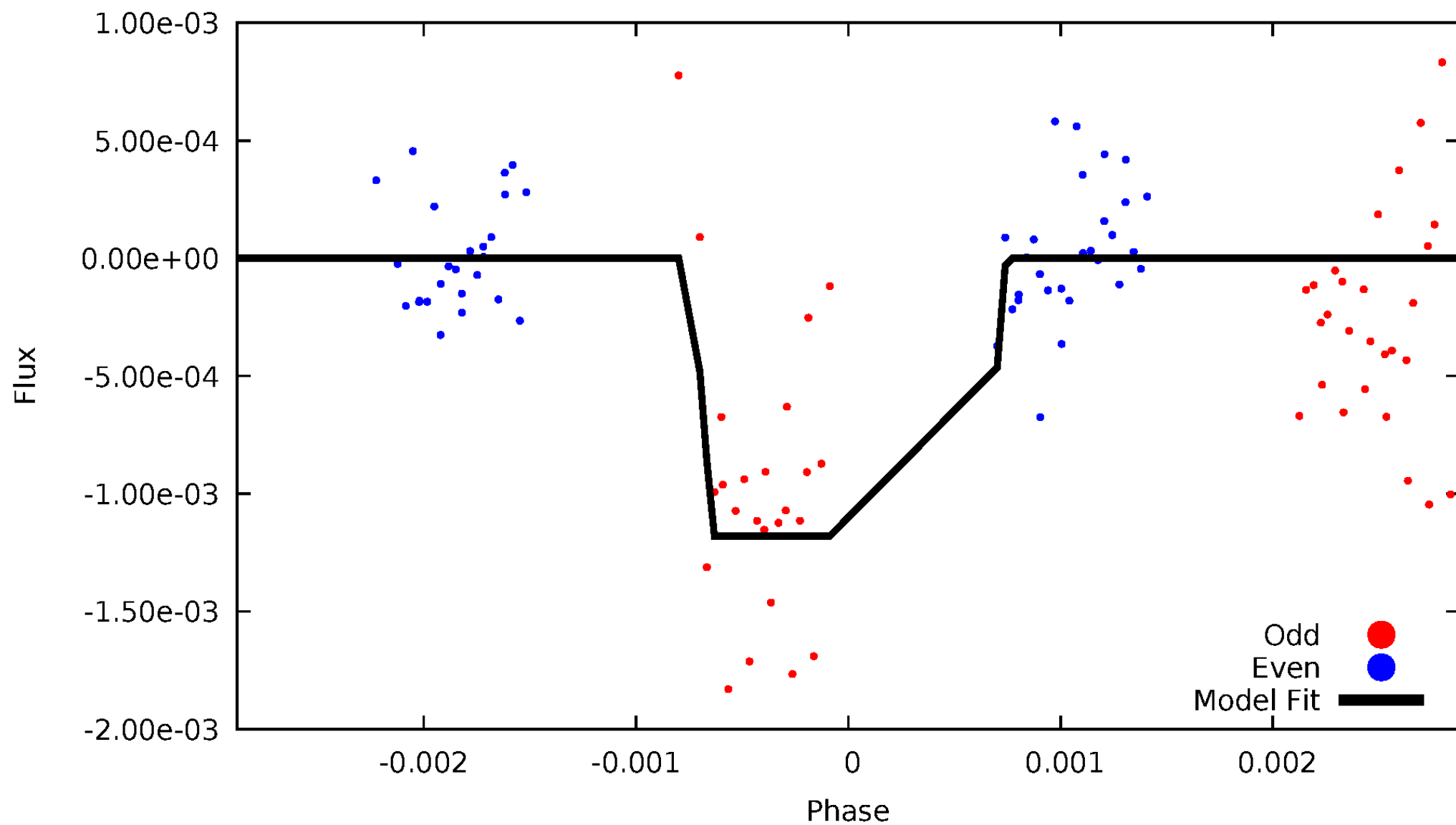
DV Odd/Even

TCE 008264583-02



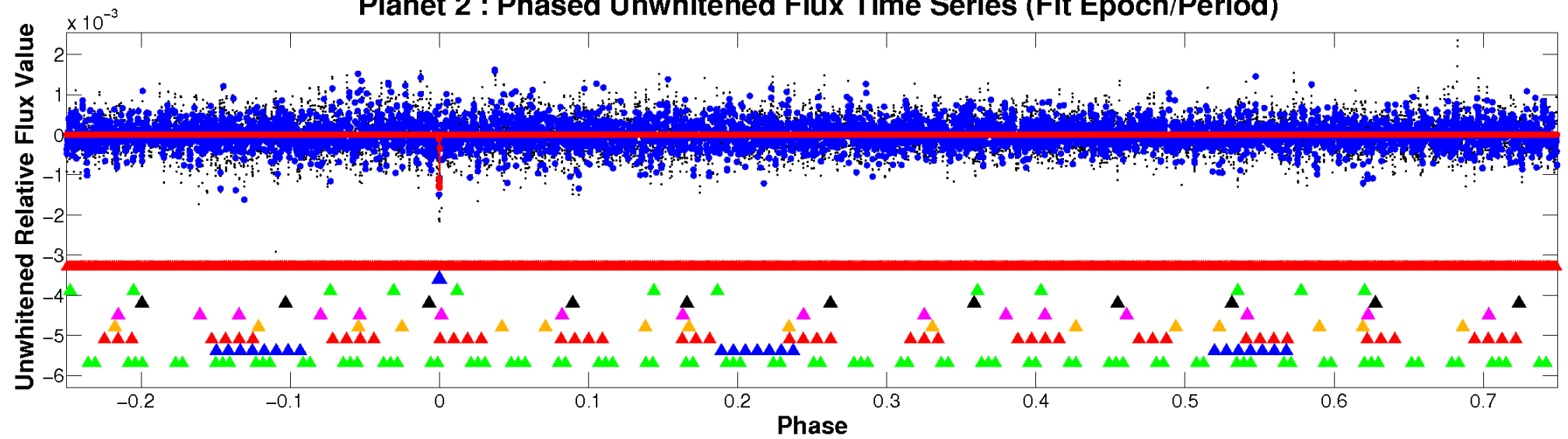
ALT Odd/Even

TCE 008264583-02

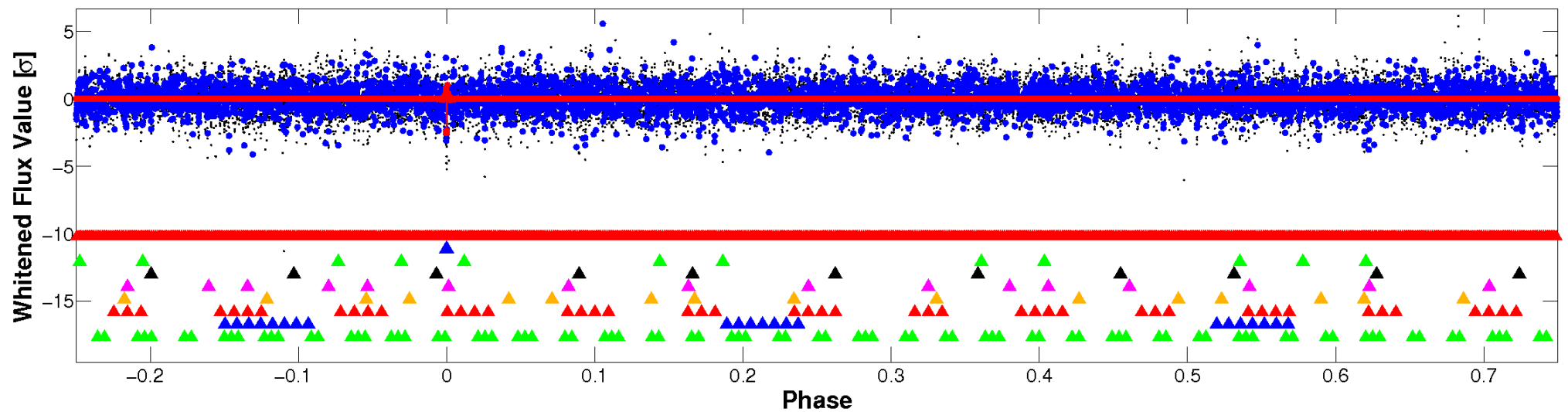


Non-Whitened Vs. Whitened Light Curve

Planet 2 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

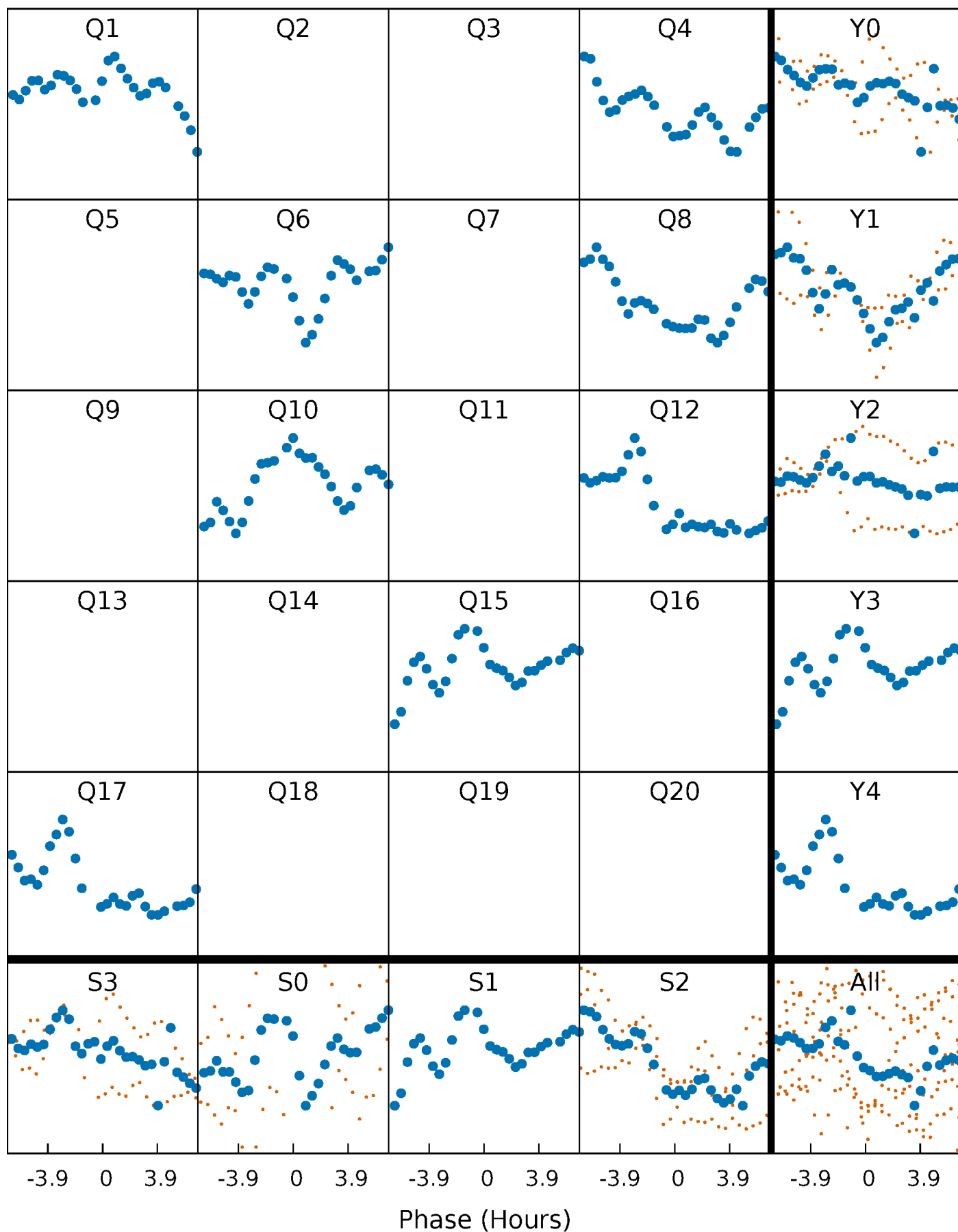


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



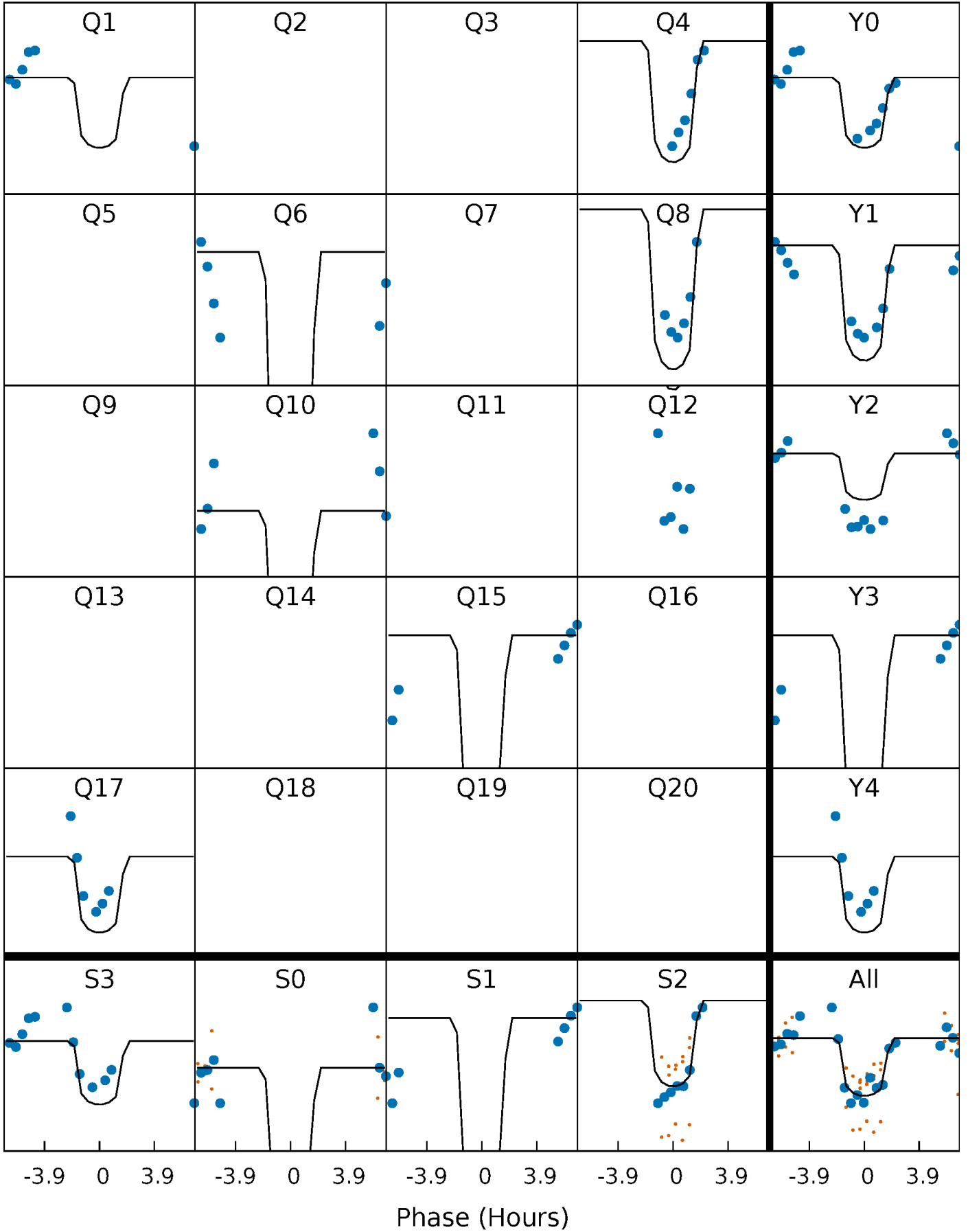
PDC Quarter-Phased Transit Curves

TCE 008264583-02 P=202.578749 Days $T_0=160.599171$ (BKJD)



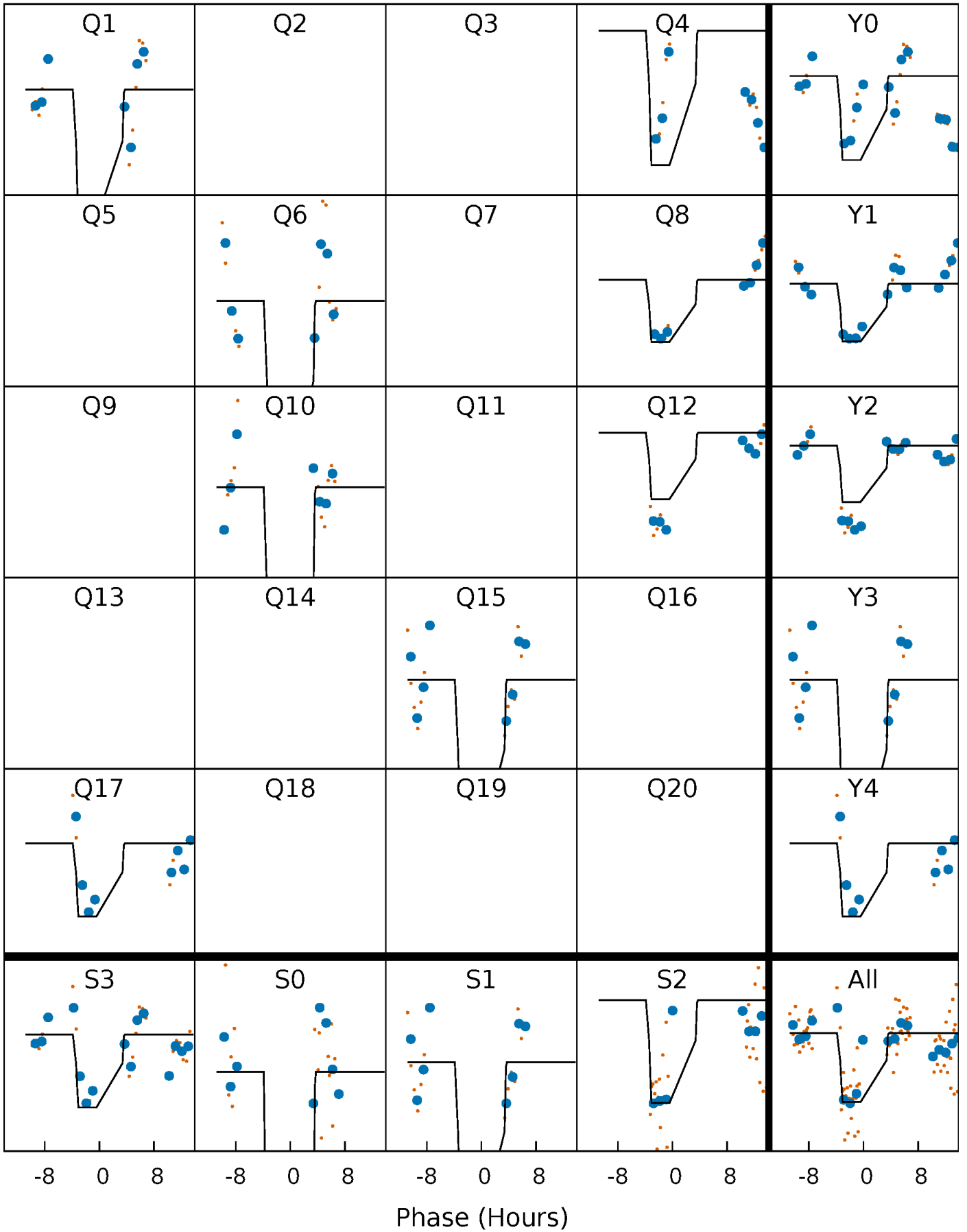
DV Quarter-Phased Transit Curves

TCE 008264583-02 P=202.578749 Days $T_0=160.599171$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

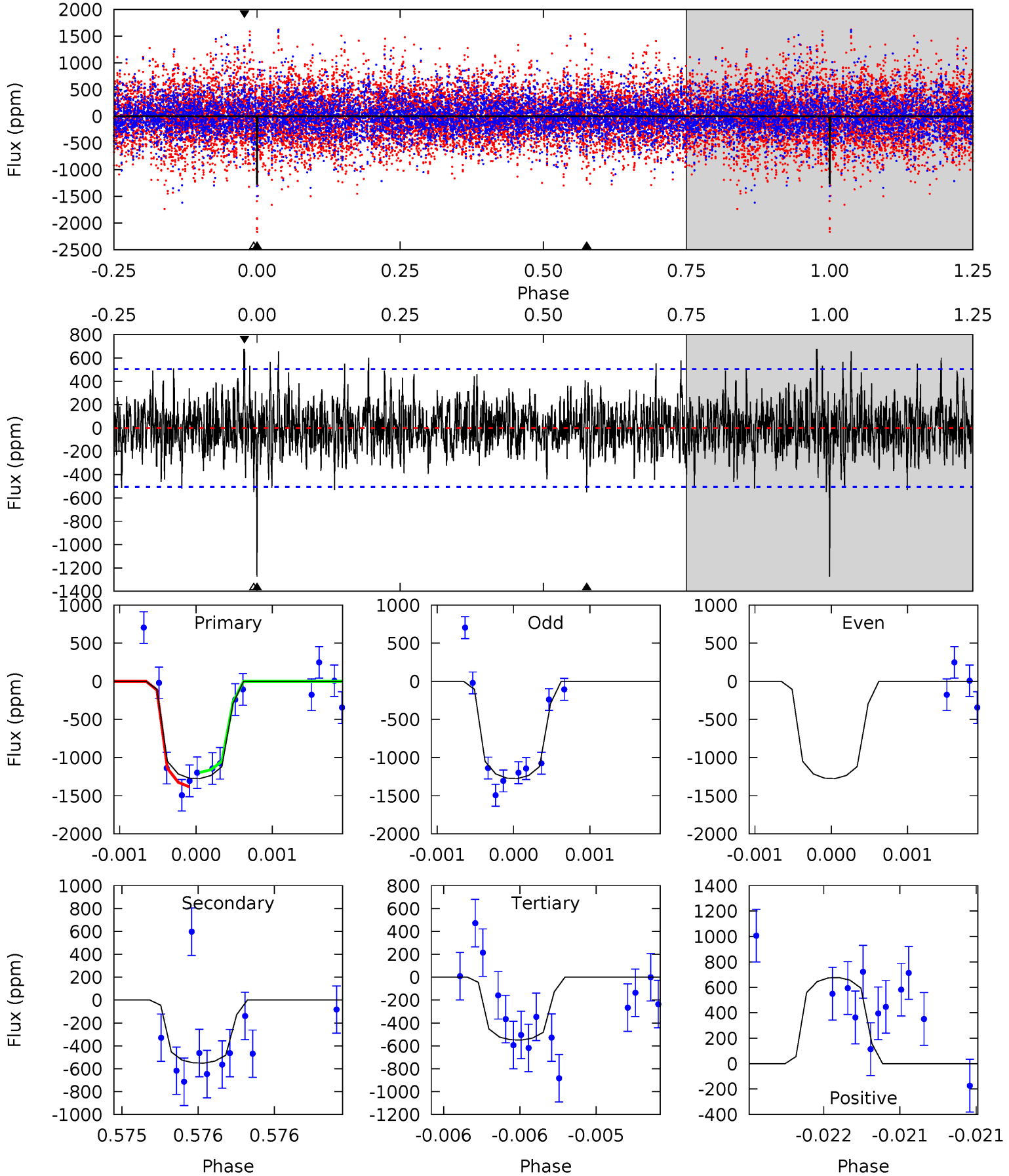
TCE 008264583-02 P=202.572116 Days $T_0=160.713383$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-02, P = 202.578749 Days, E = 160.599171 Days

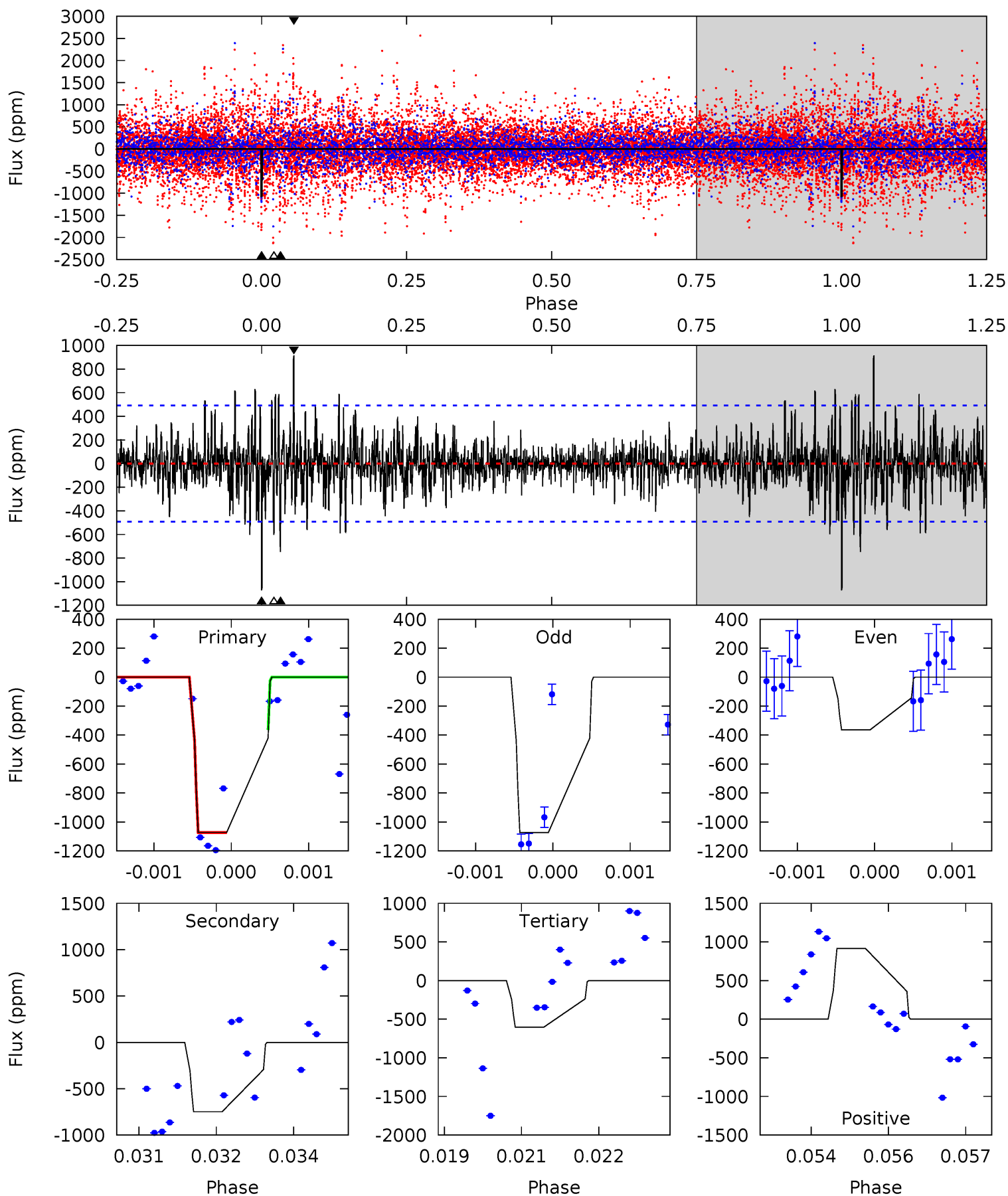
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.9	6.00	5.99	7.38	5.51	3.39	1.79	7.90	6.52	0.01	-1.37	0	1.26	0.35	0.98



Alt Model-Shift Uniqueness Test

008264583-02, P = 202.572116 Days, E = 160.713383 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	8.18	6.60	10.0	5.38	3.18	1.67	5.12	1.72	1.58	-1.82	3.03	1.10	0.46	2.11



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-551 ± 92	$9.20^{+5.85}_{-5.31}$	744^{+39}_{-43}	5621^{+3453}_{-1038}	2289^{+10511}_{-1459}
Alt.	-748 ± 91	$8.65^{+6.16}_{-5.19}$	742^{+37}_{-37}	6211^{+4663}_{-1327}	3342^{+19264}_{-2185}

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 $A_{obs} \gg 1.0$

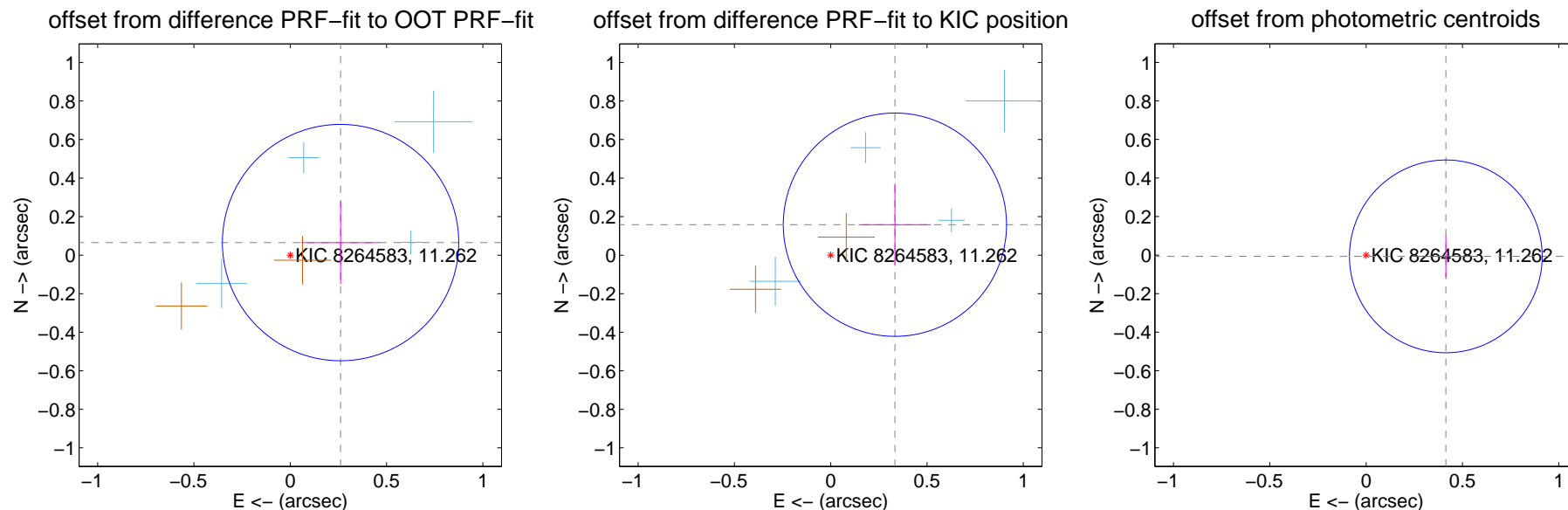
DV Centroid Data

Supplemental centroid analysis for 008264583-02. **Kepler magnitude: 11.26.** Transit SNR 10.34

There are 5 quarters with good PRF difference image offsets

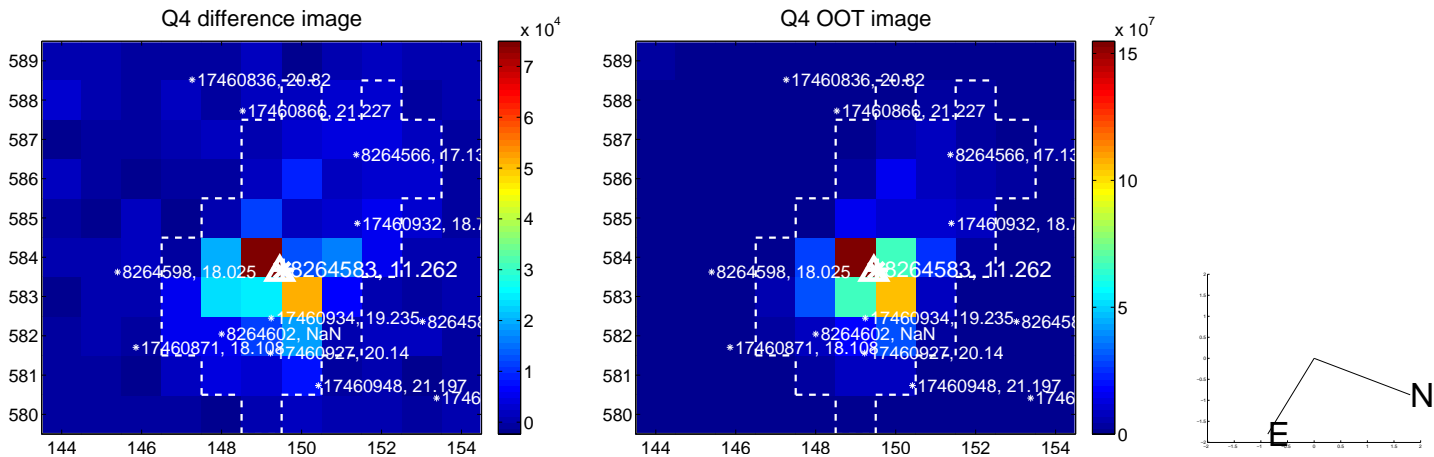
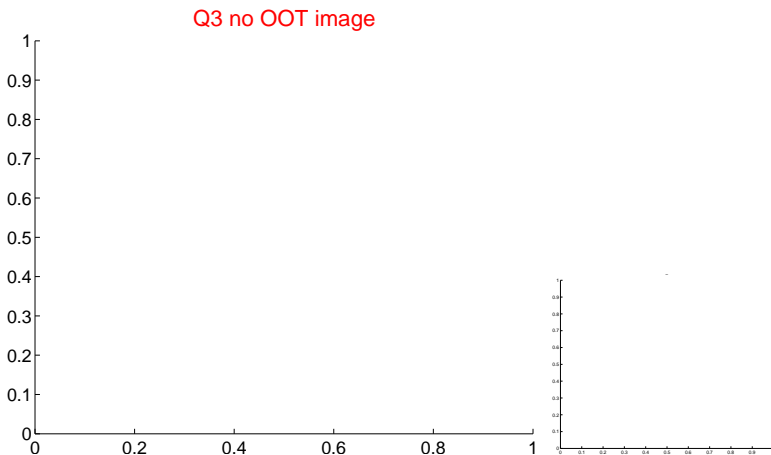
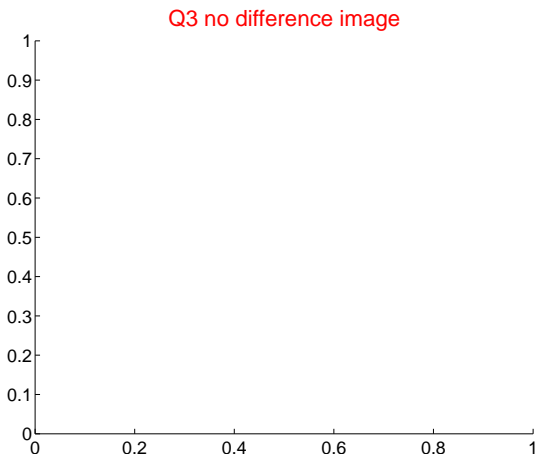
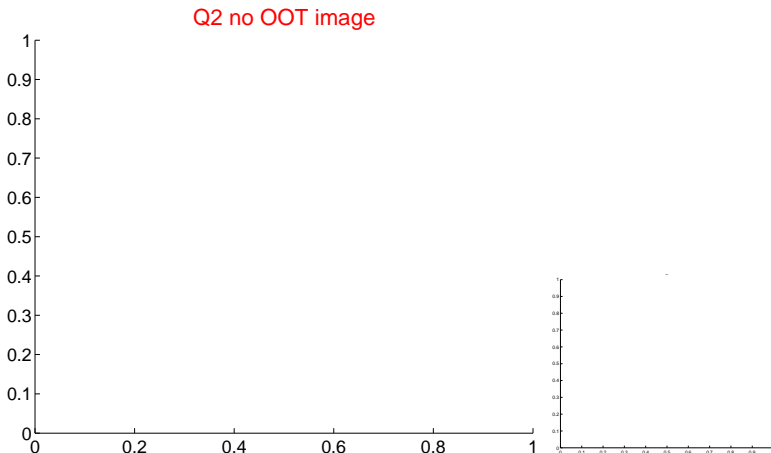
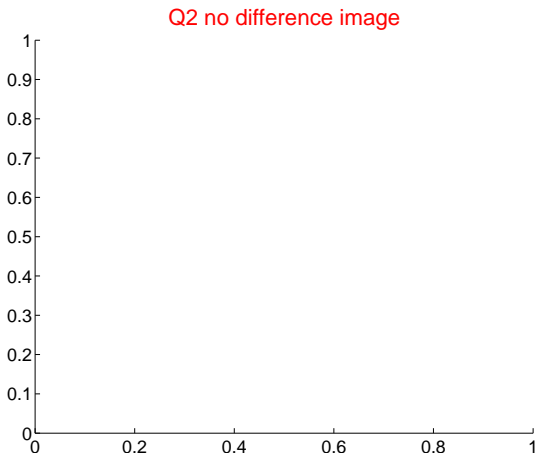
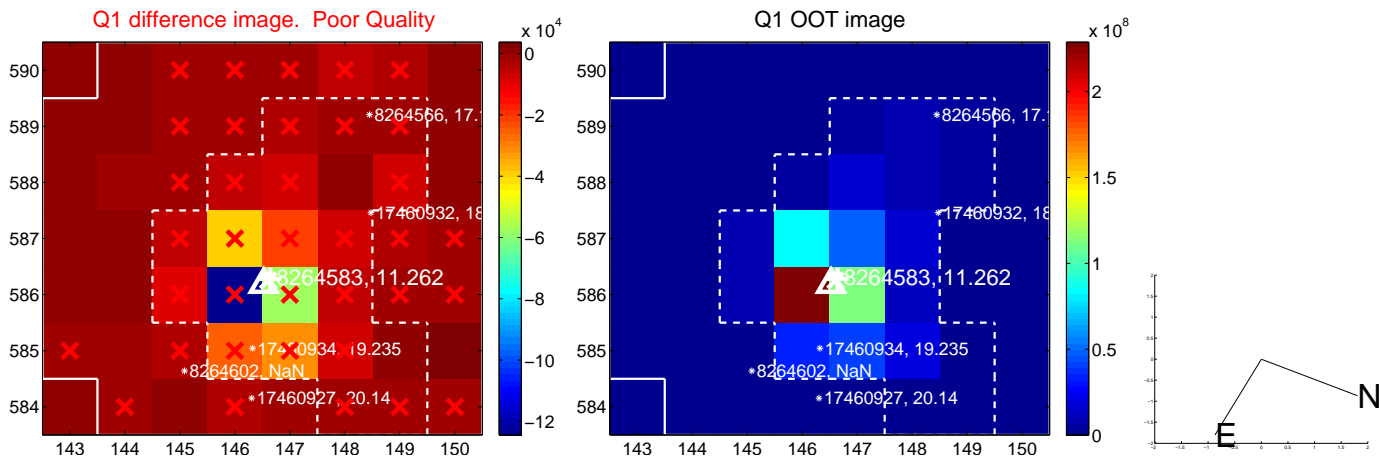
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.269 ± 0.204	1.32	-0.261 ± 0.204	0.065 ± 0.214
PRF-fit source offset from KIC position	0.369 ± 0.193	1.91	-0.333 ± 0.188	0.158 ± 0.214
photometric centroid source offset	0.41 ± 0.17	2.48	-0.41 ± 0.17	-0.01 ± 0.11



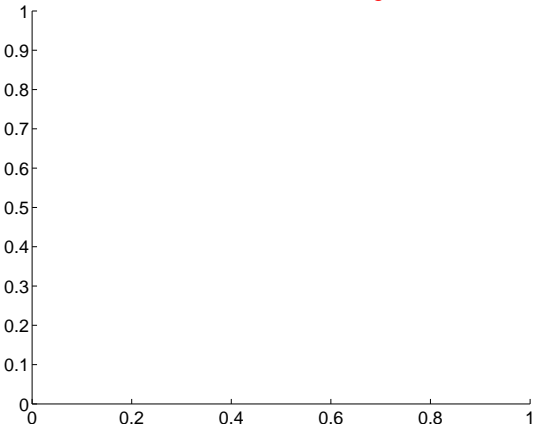
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

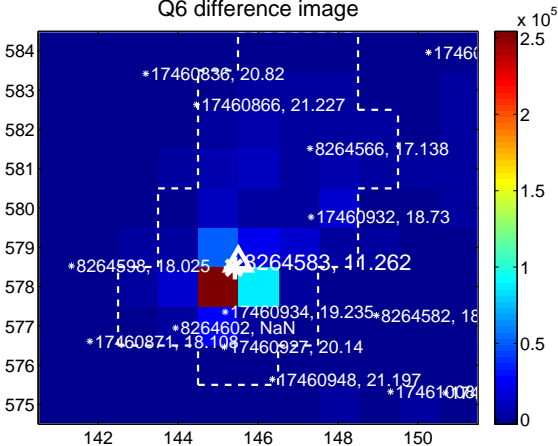
Q5 no difference image



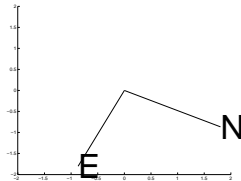
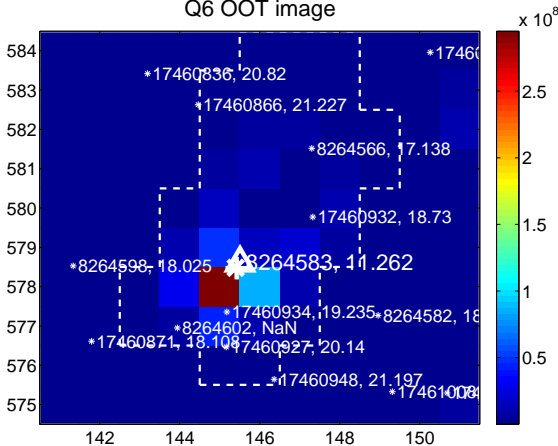
Q5 no OOT image



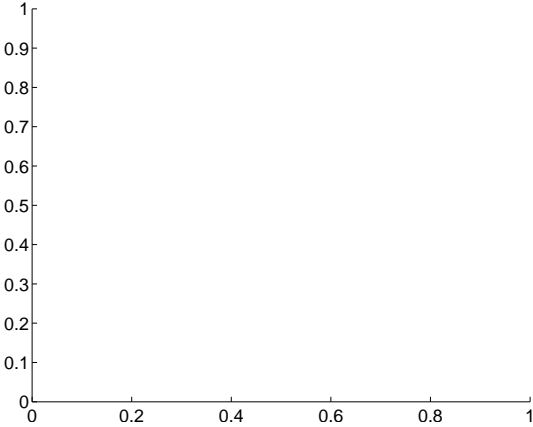
Q6 difference image



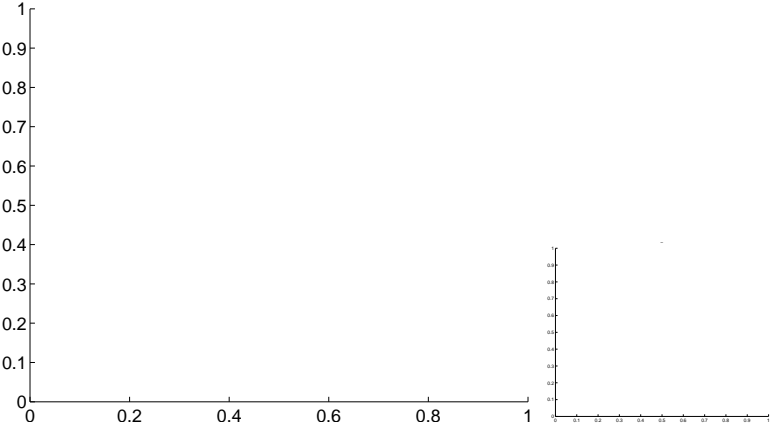
Q6 OOT image



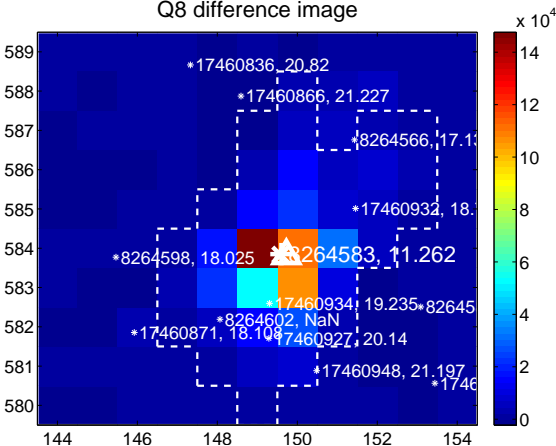
Q7 no difference image



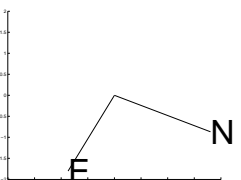
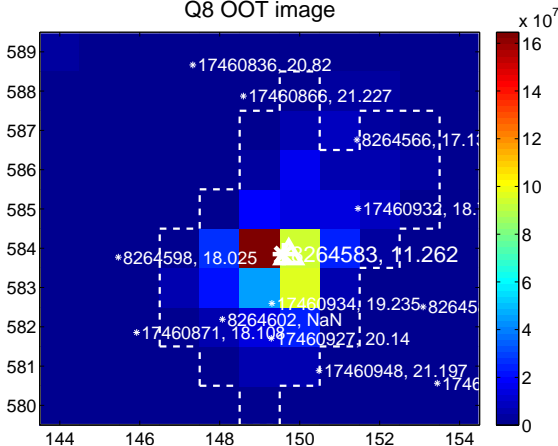
Q7 no OOT image



Q8 difference image

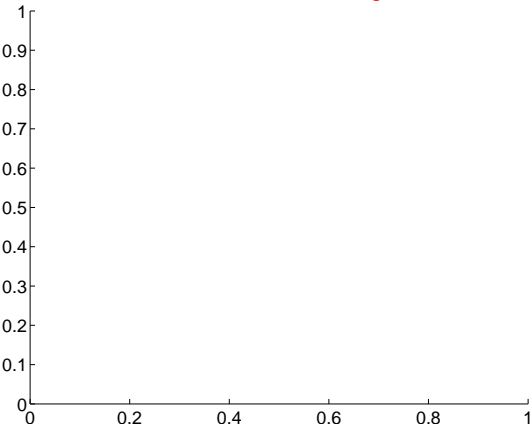


Q8 OOT image

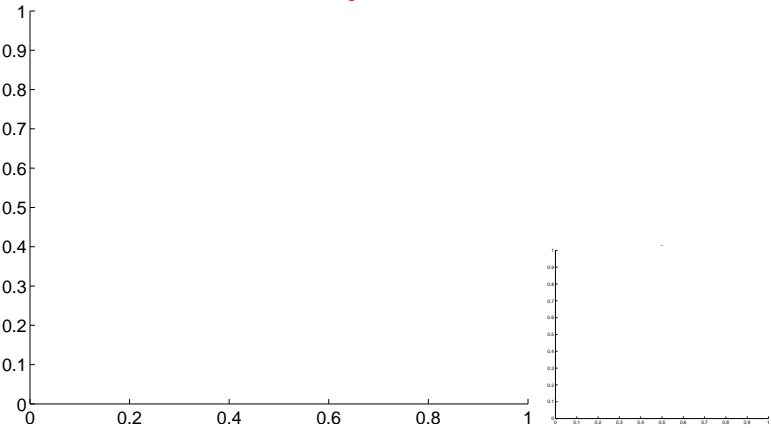


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

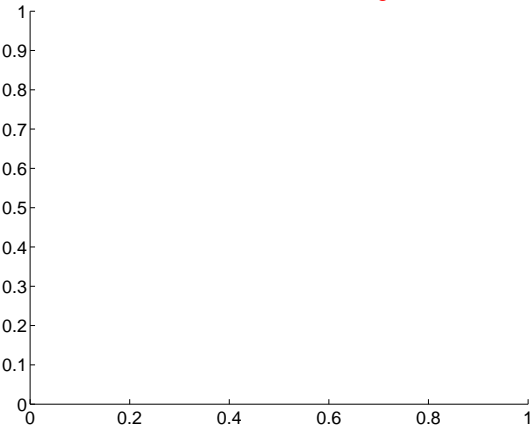
Q9 no difference image



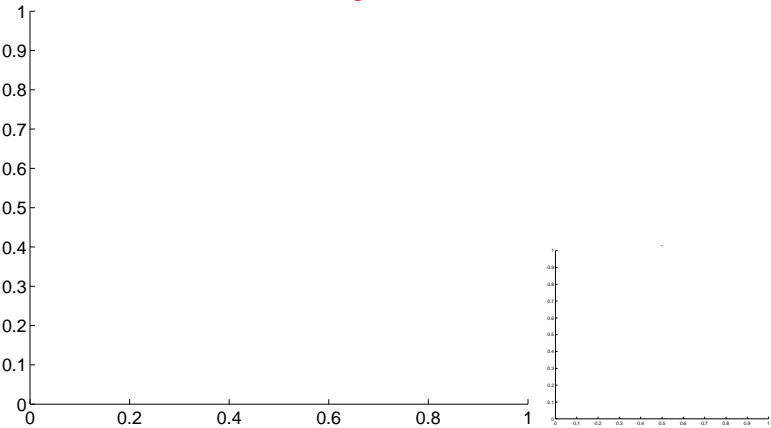
Q9 no OOT image



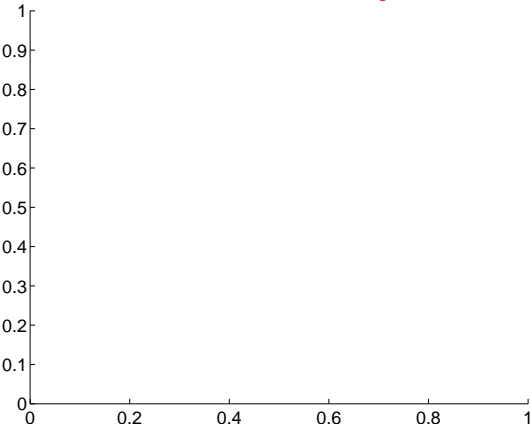
Q10 no difference image



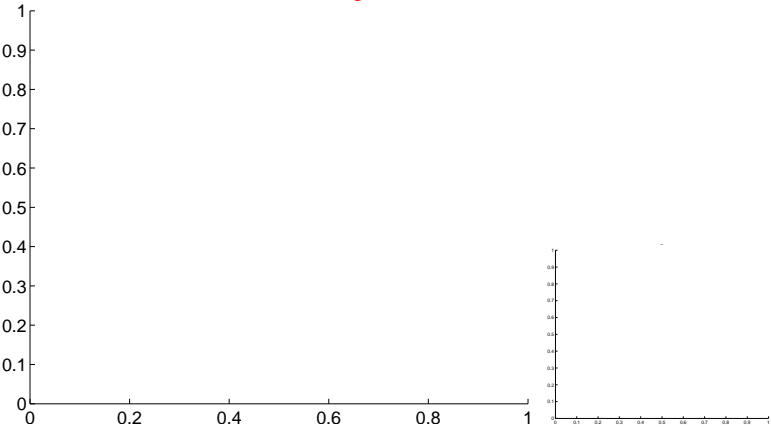
Q10 no OOT image



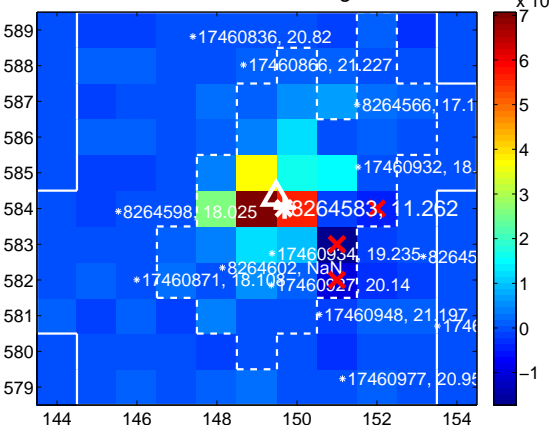
Q11 no difference image



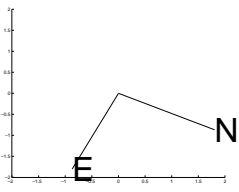
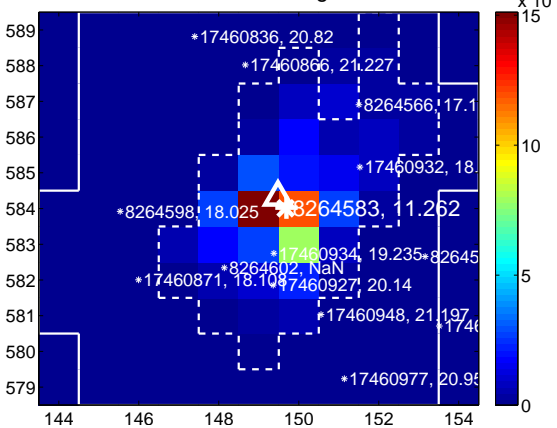
Q11 no OOT image



Q12 difference image

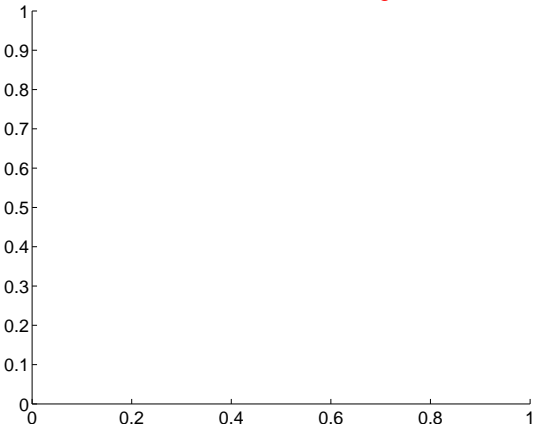


Q12 OOT image

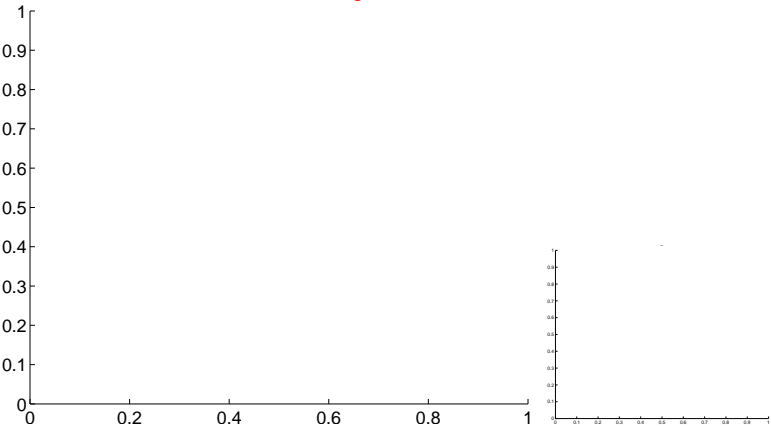


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

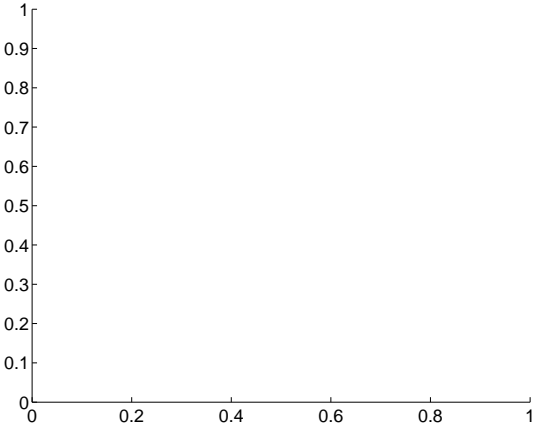
Q13 no difference image



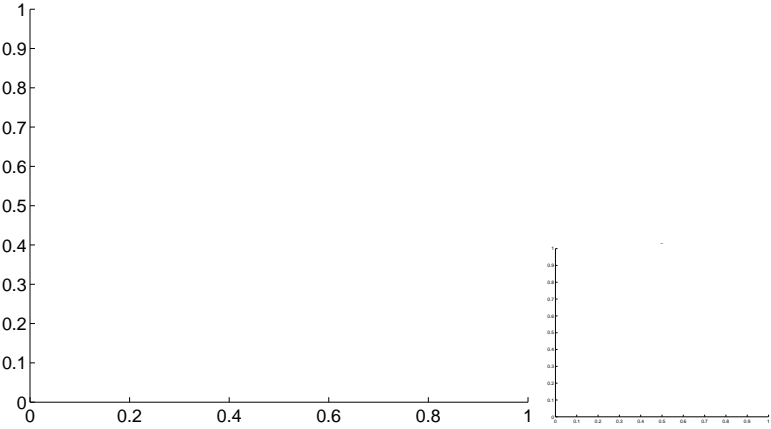
Q13 no OOT image



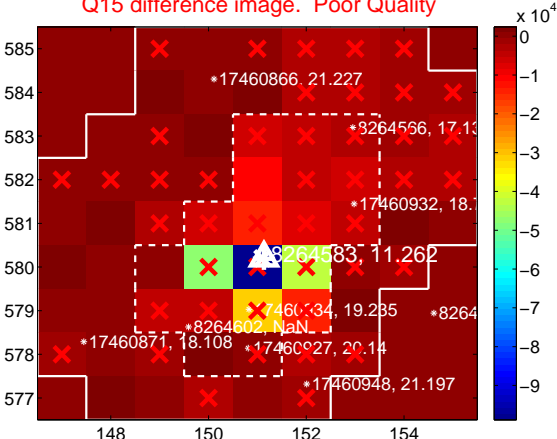
Q14 no difference image



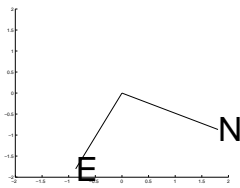
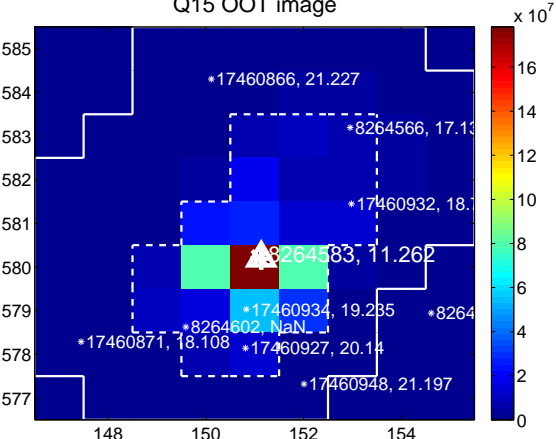
Q14 no OOT image



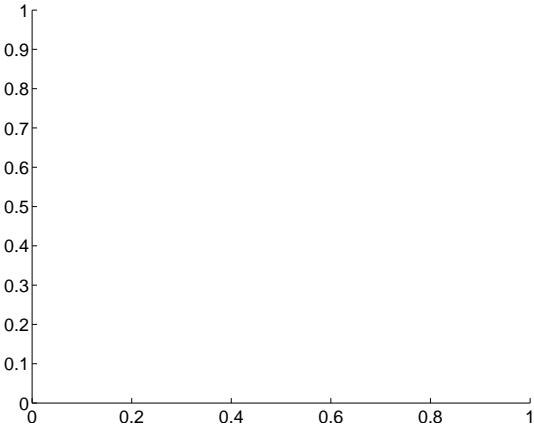
Q15 difference image. Poor Quality



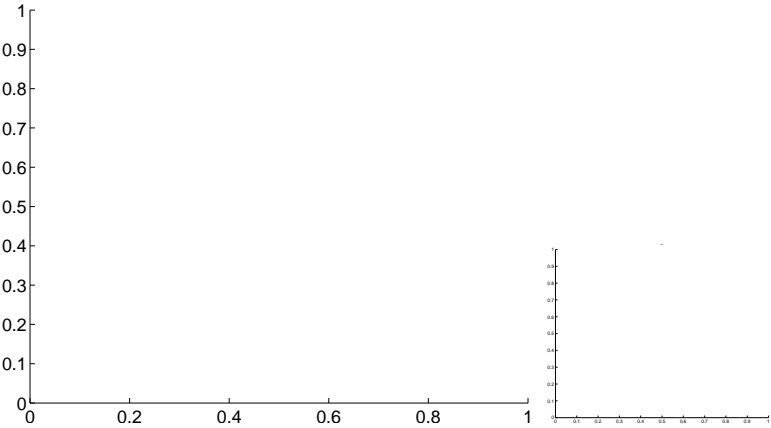
Q15 OOT image



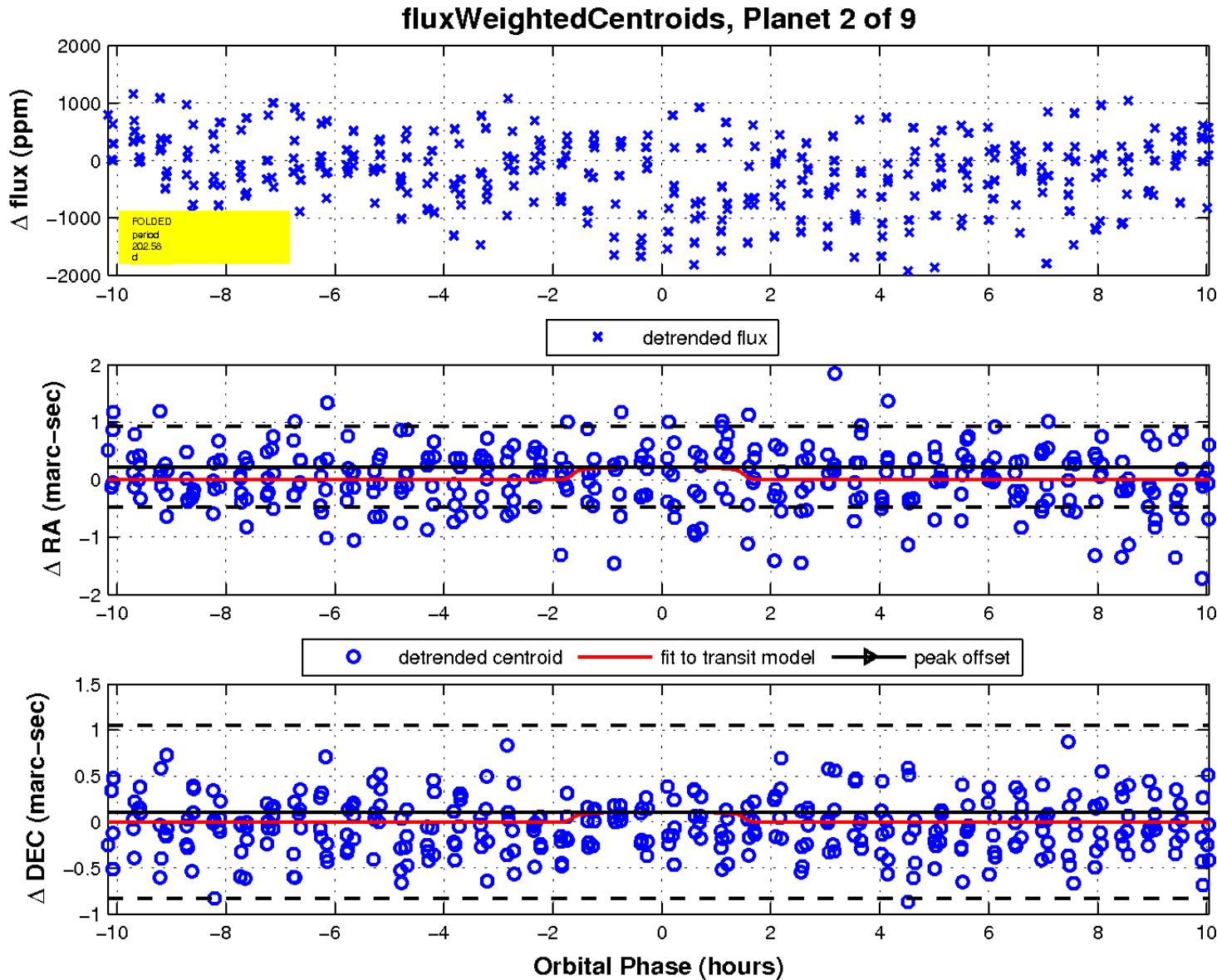
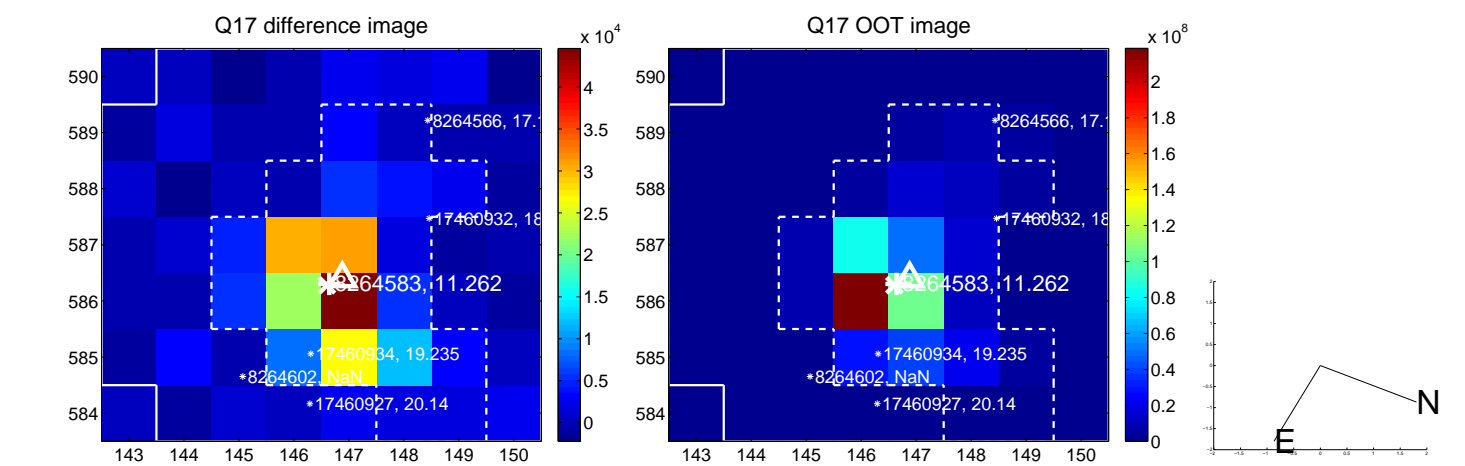
Q16 no difference image



Q16 no OOT image

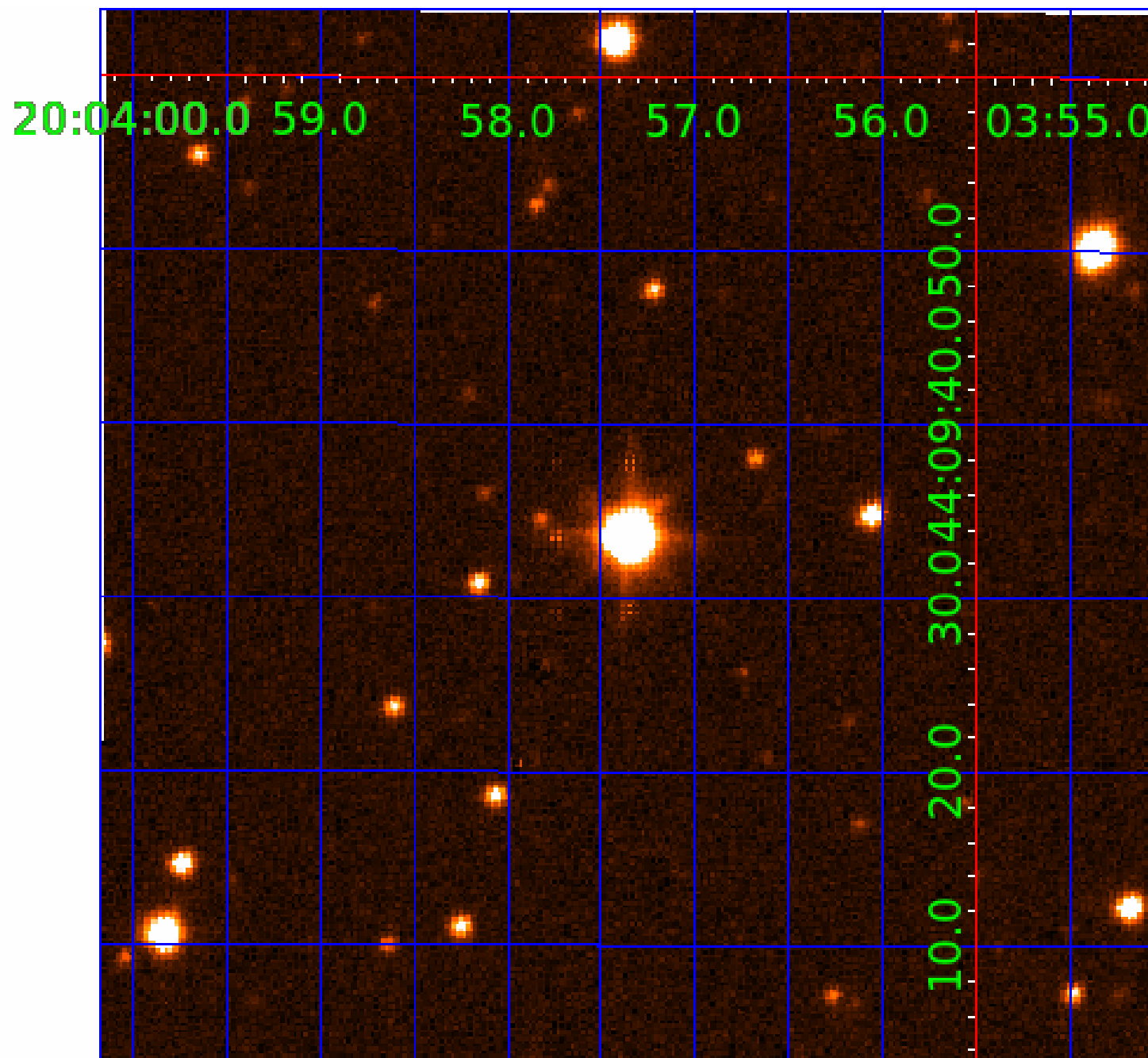


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264583

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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

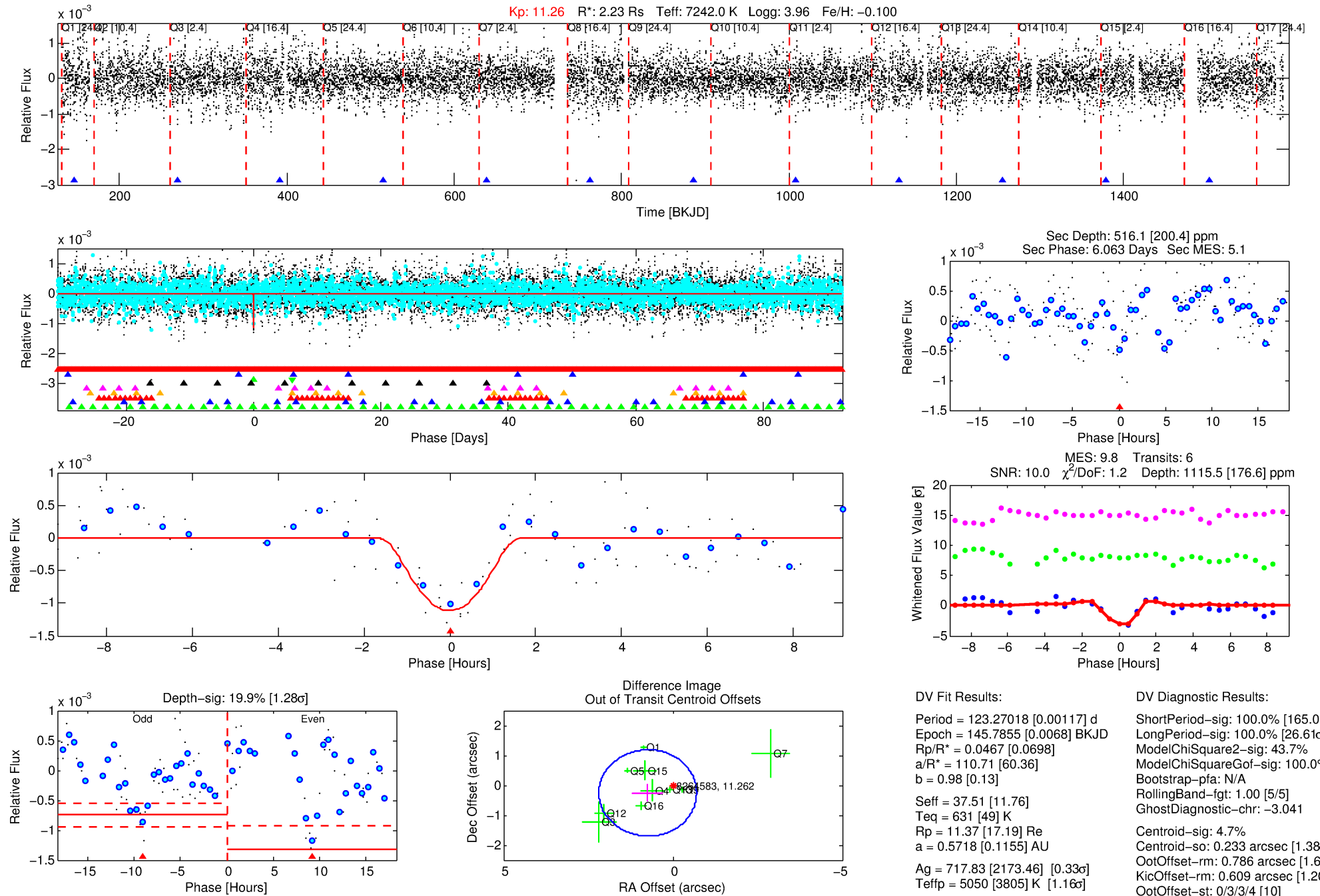
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-03

No Significant Match Found

DV One-Page Summary

KIC: 8264583 Candidate: 3 of 9 Period: 123.270 d



DV Fit Results:

Period = 123.27018 [0.00117] d
Epoch = 145.7855 [0.0068] BKJD
Rp/R* = 0.0467 [0.0698]
a/R* = 110.71 [60.36]
b = 0.98 [0.13]
Seff = 37.51 [11.76]
Teq = 631 [49] K
Rp = 11.37 [17.19] Re
a = 0.5718 [0.1155] AU
Ag = 717.83 [2173.46] [0.33 σ]
Teffp = 5050 [3805] K [1.16 σ]

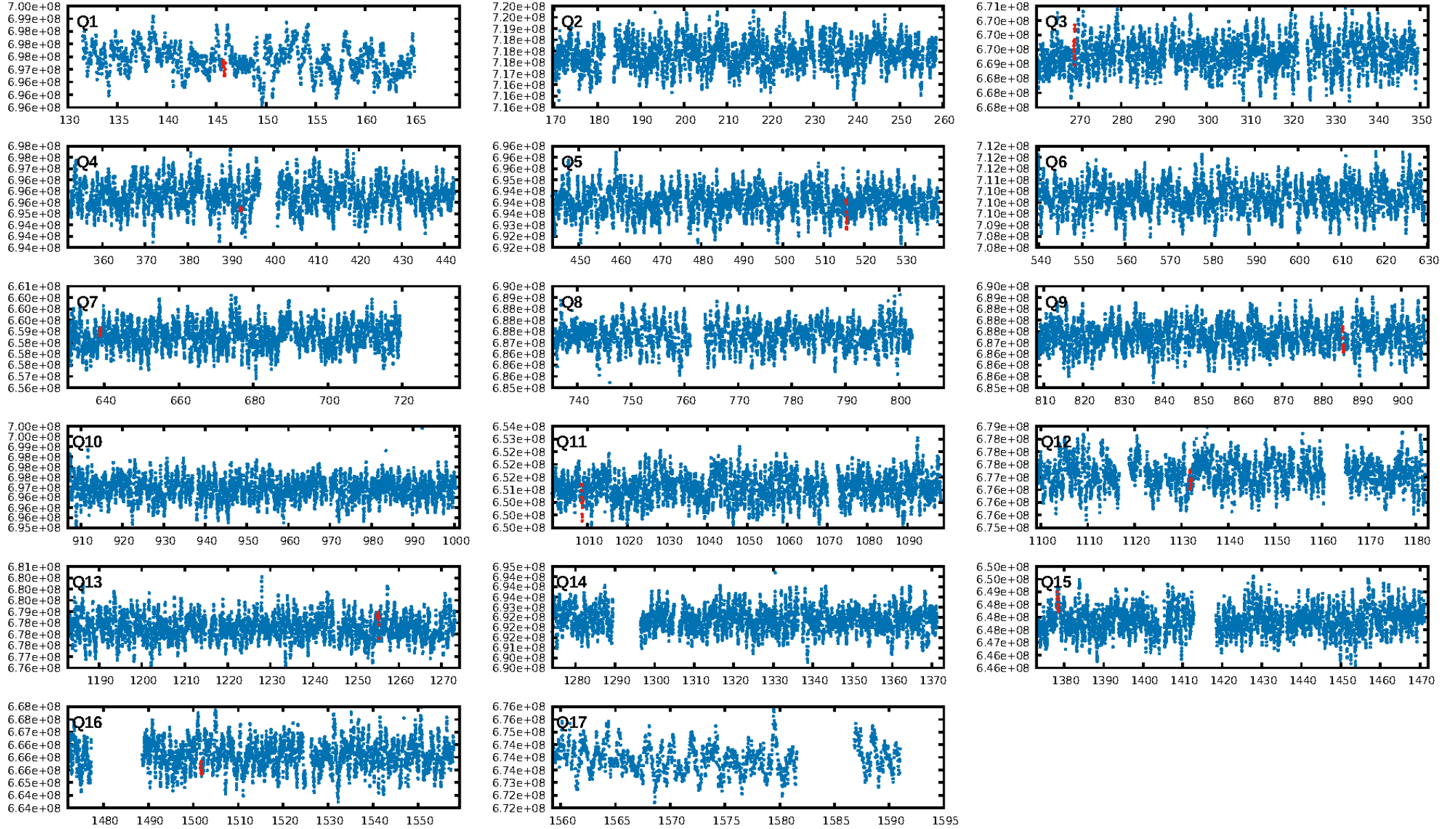
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [165.04 σ]
LongPeriod-sig: 100.0% [26.61 σ]
ModelChiSquare2-sig: 43.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -3.041
Centroid-sig: 4.7%
Centroid-so: 0.233 arcsec [1.38 σ]
OotOffset-rm: 0.786 arcsec [1.63 σ]
KicOffset-rm: 0.609 arcsec [1.20 σ]
OotOffset-st: 0/3/3/4 [10]
KicOffset-st: 0/3/3/4 [10]
DiffImageQuality-fgm: 0.70 [7/10]
DiffImageOverlap-fno: 0.00 [0/10]

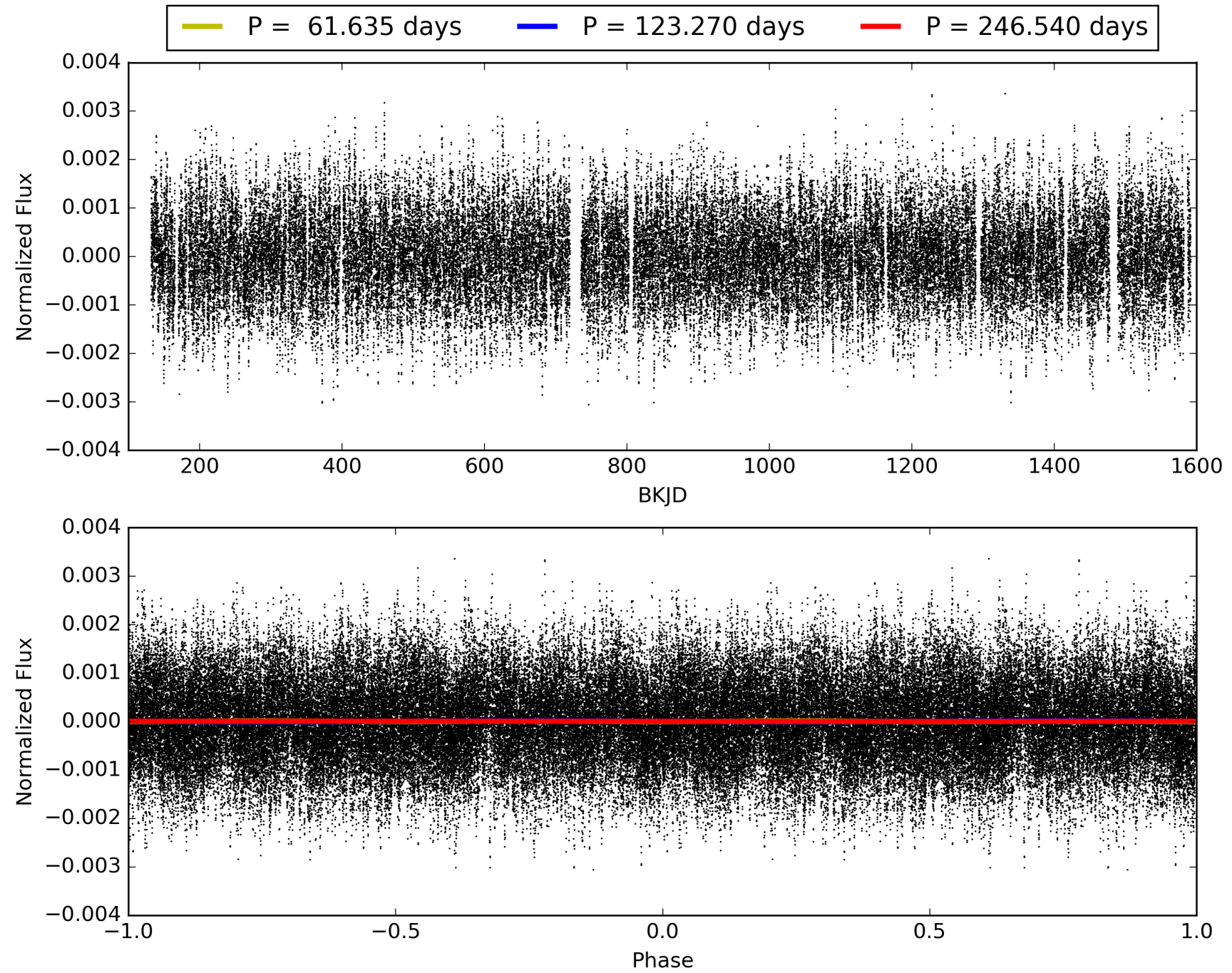
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:44:46 Z

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

TCE 008264583-03, PDC Light Curves

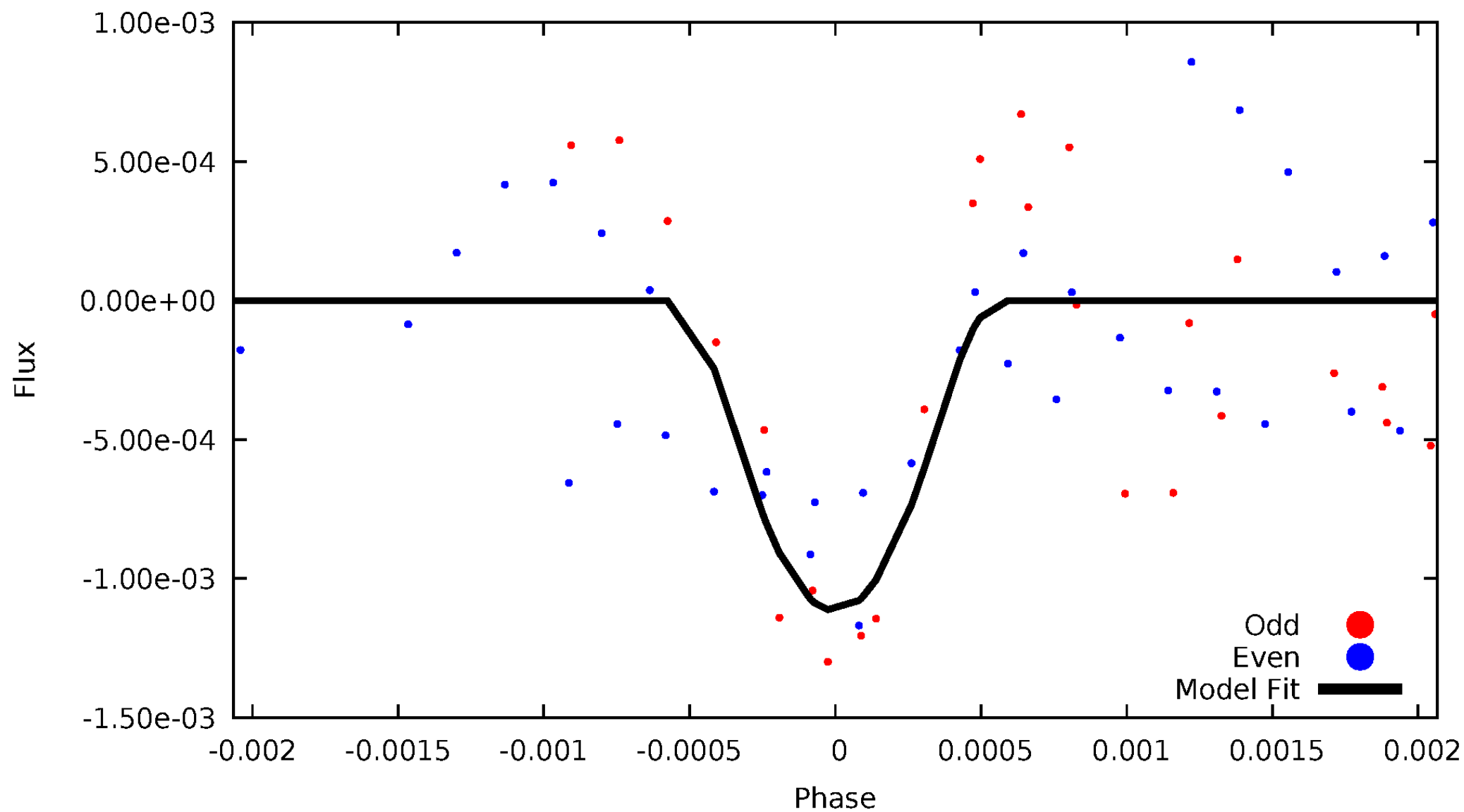


TCE 008264583-03



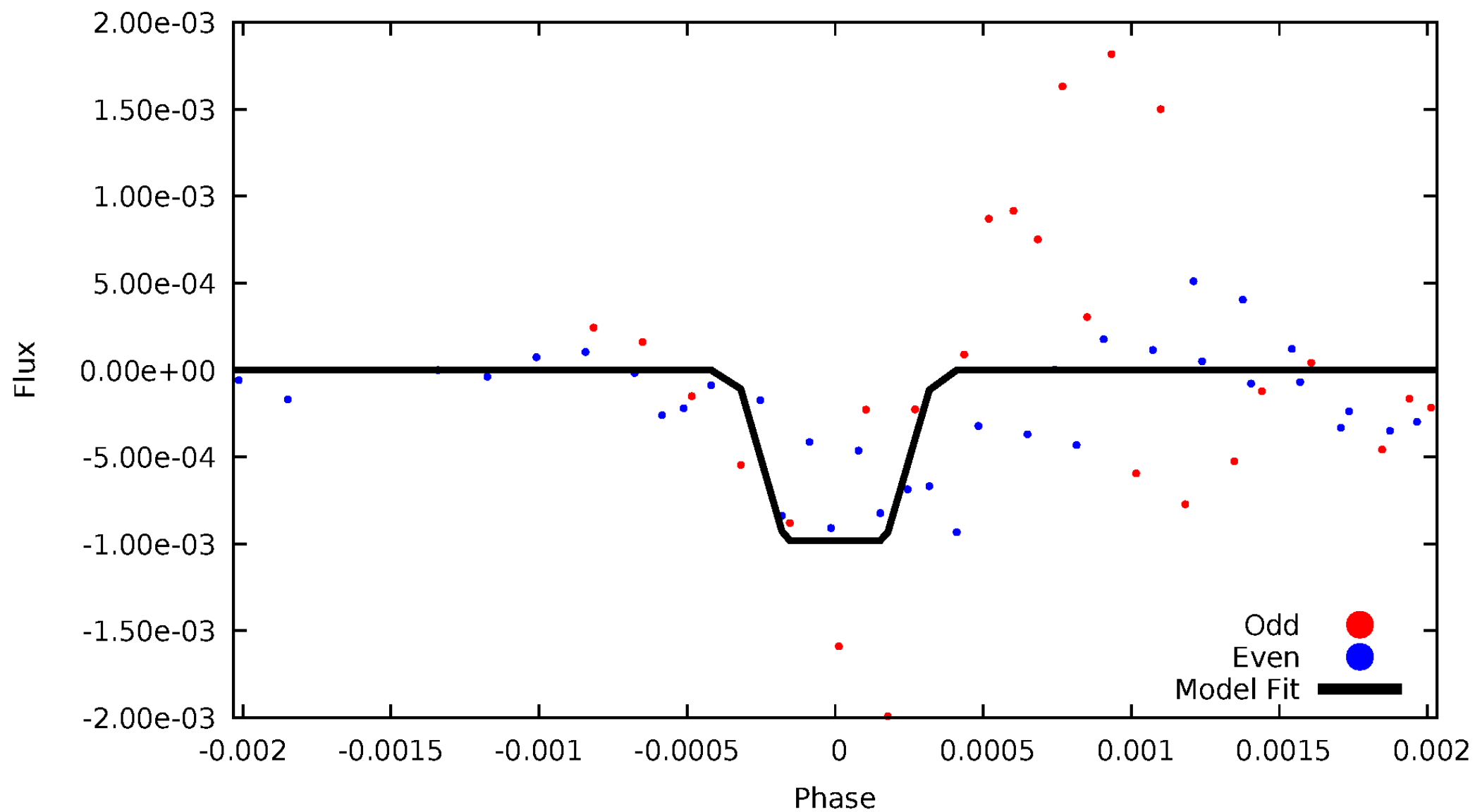
DV Odd/Even

TCE 008264583-03



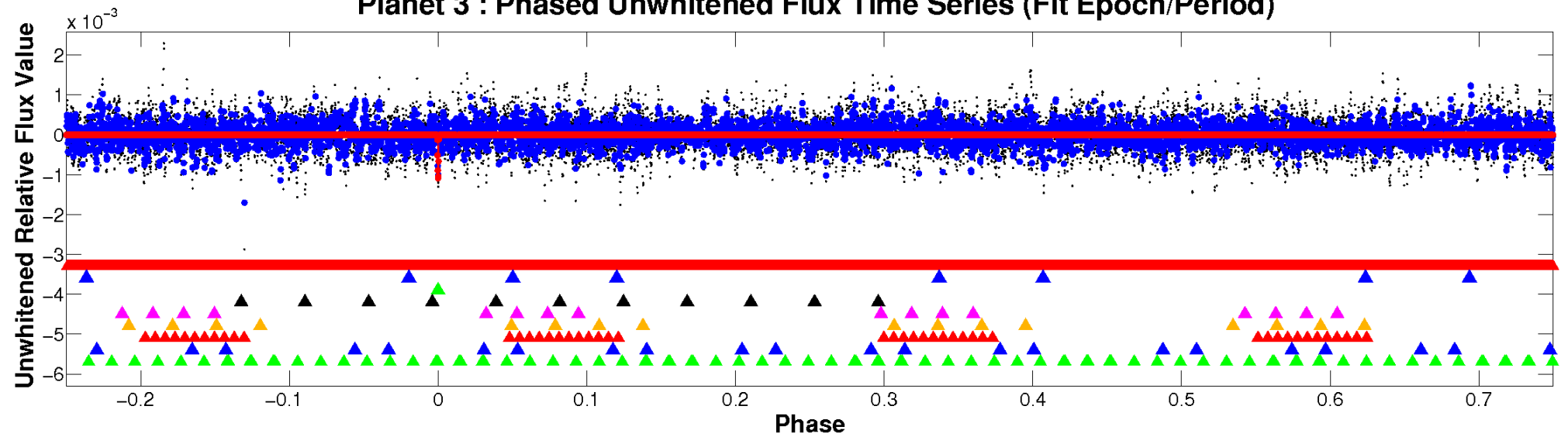
ALT Odd/Even

TCE 008264583-03

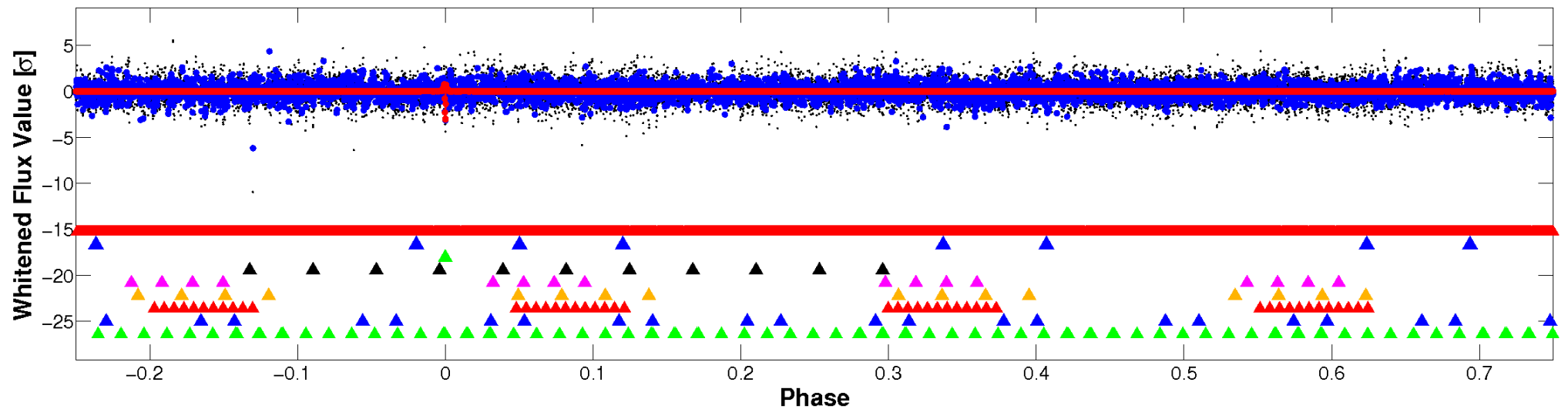


Non-Whitened Vs. Whitened Light Curve

Planet 3 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

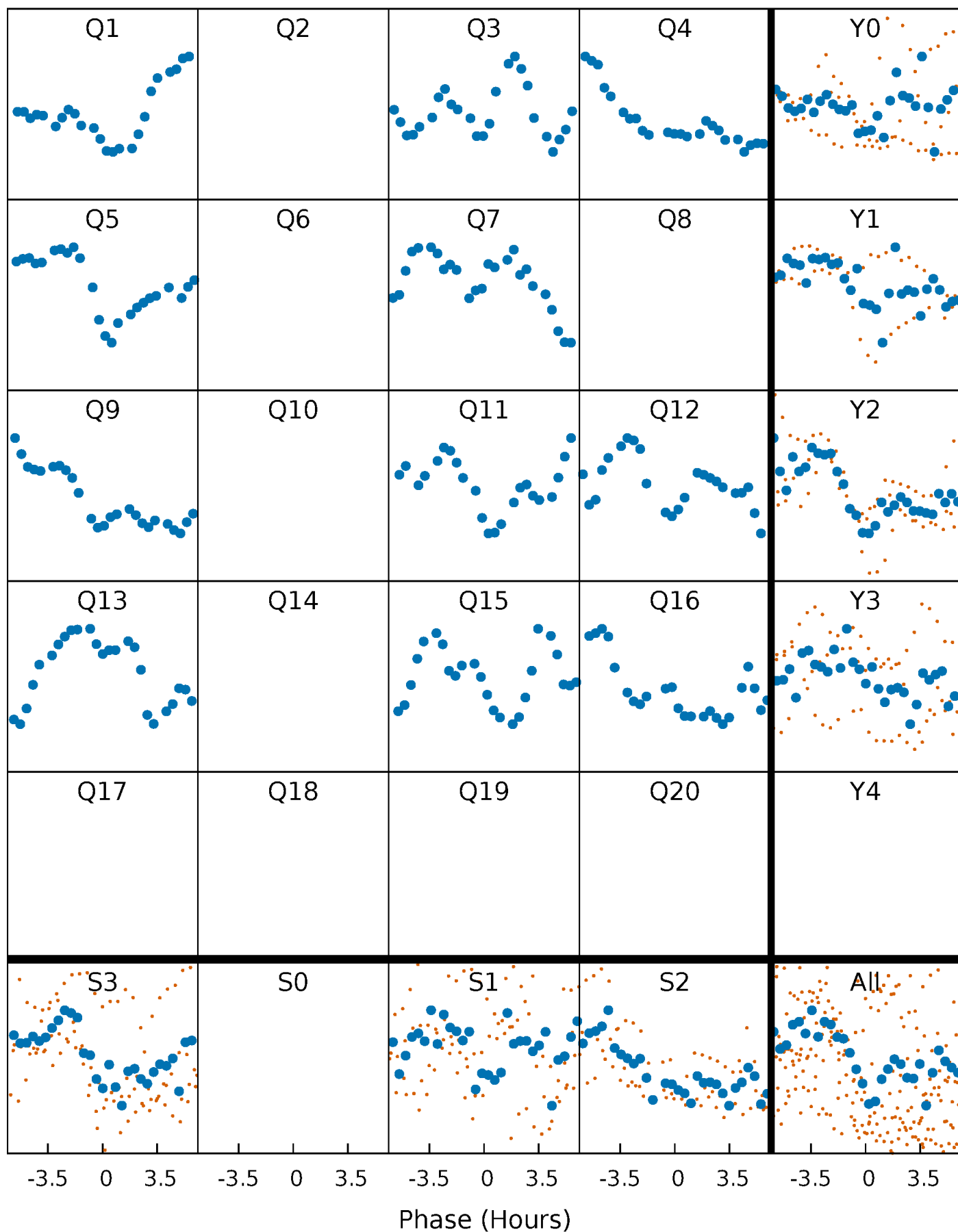


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



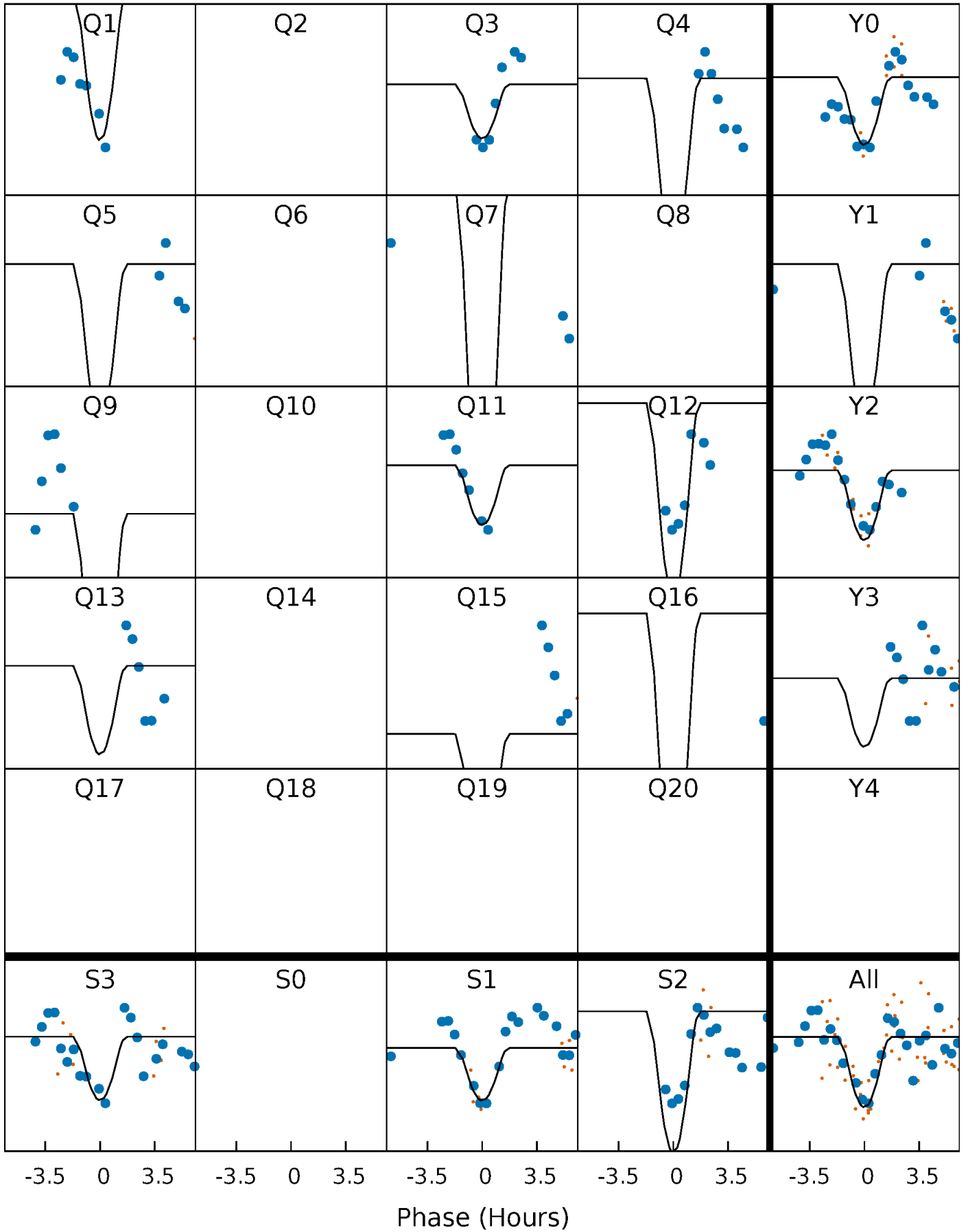
PDC Quarter-Phased Transit Curves

TCE 008264583-03 P=123.270181 Days $T_0=145.785453$ (BKJD)



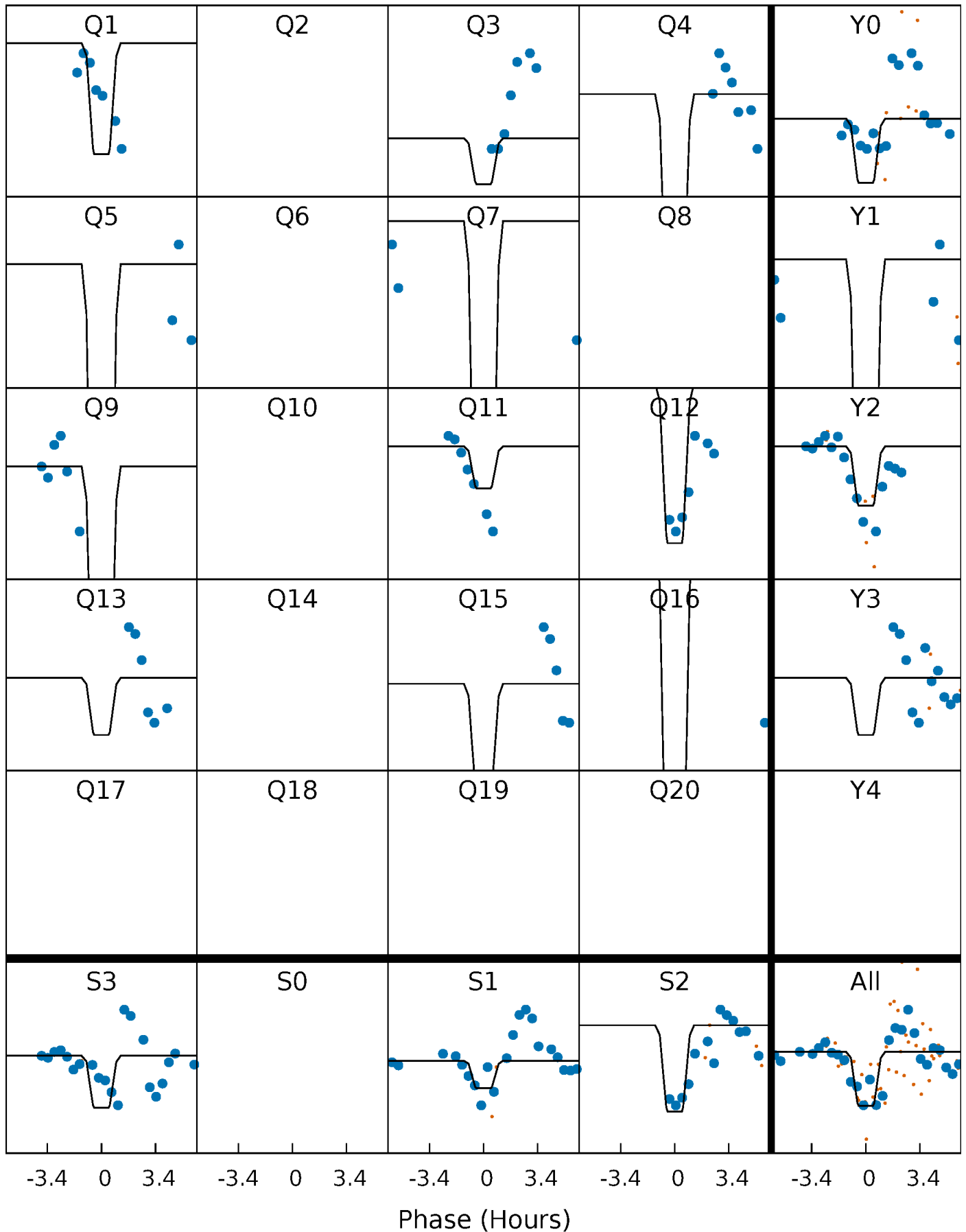
DV Quarter-Phased Transit Curves

TCE 008264583-03 P=123.270181 Days $T_0=145.785453$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

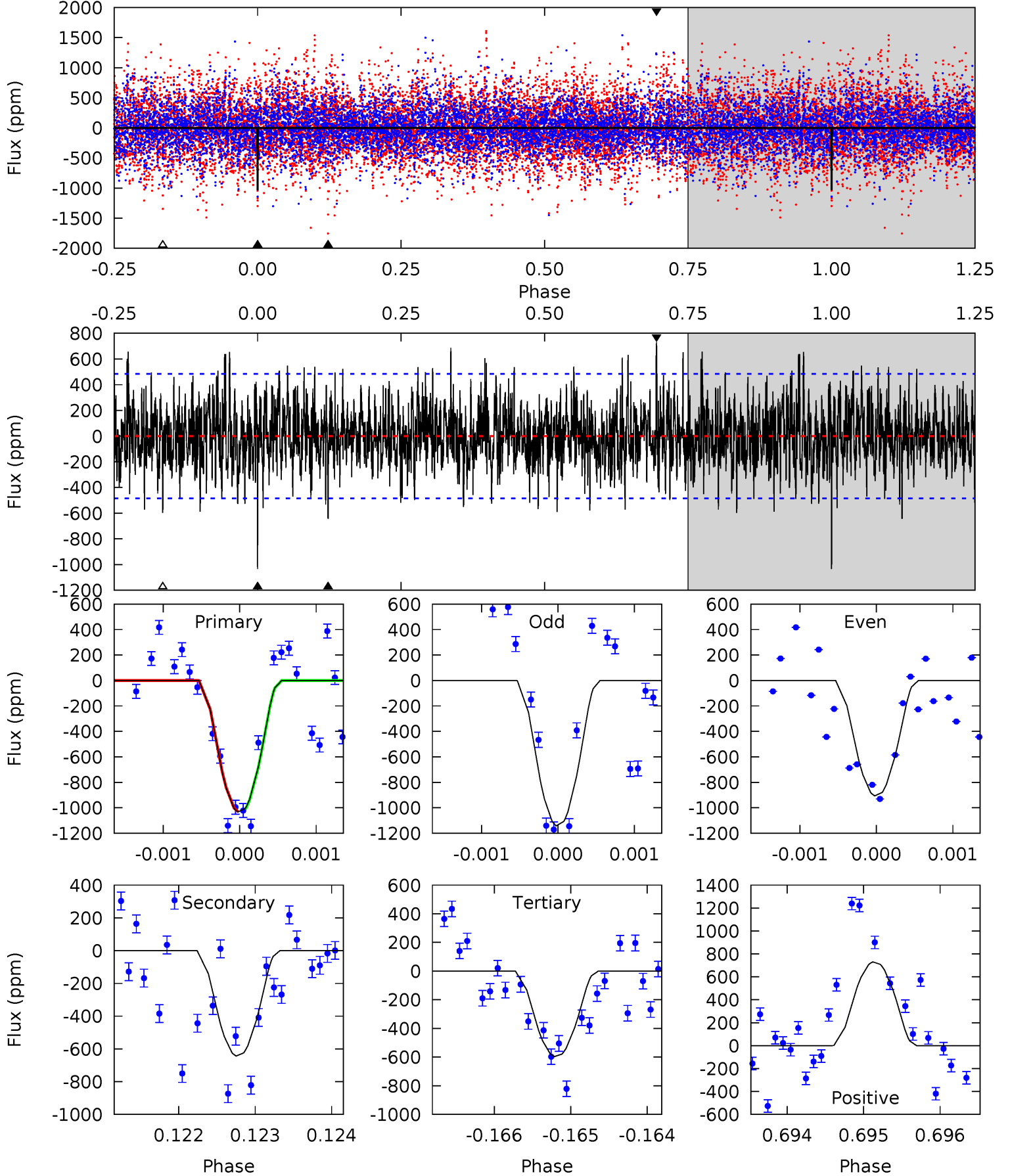
TCE 008264583-03 P=123.274392 Days $T_0=145.744794$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-03, P = 123.270181 Days, E = 22.515272 Days

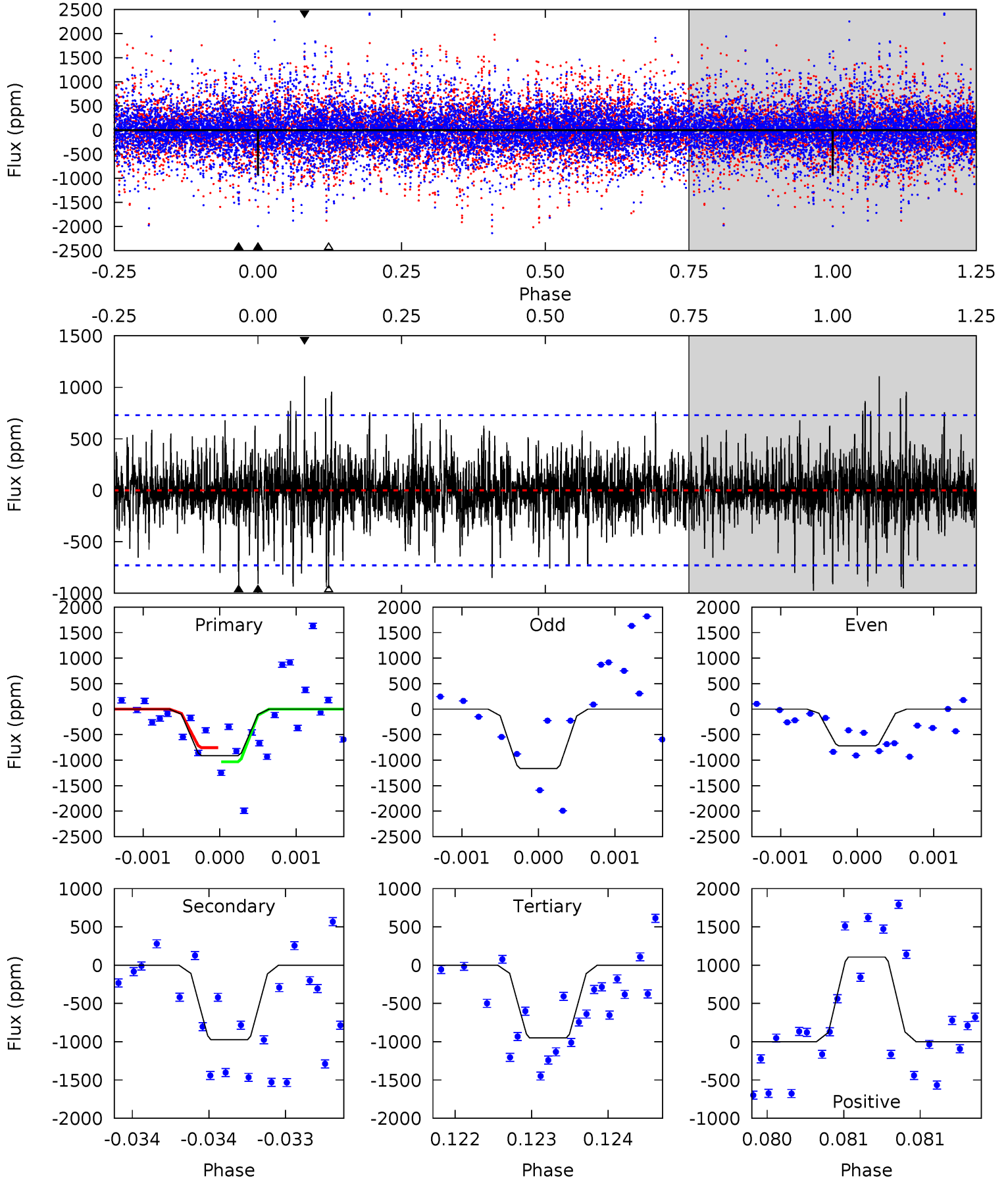
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.6	7.23	6.70	8.20	5.44	3.27	2.20	4.90	3.40	0.52	-0.98	1.31	0.97	0.41	0.12



Alt Model-Shift Uniqueness Test

008264583-03, P = 123.274392 Days, E = 22.470402 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.90	7.39	7.21	8.39	5.53	3.42	1.62	-0.31	-1.49	0.18	-1.00	1.64	1.13	0.53	1.04



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-644 ± 89	$16.72^{+13.74}_{-11.63}$	878^{+41}_{-53}	4485^{+3354}_{-881}	411^{+3956}_{-297}
Alt.	-974 ± 132	$14.43^{+13.32}_{-9.16}$	880^{+45}_{-51}	5225^{+3529}_{-1247}	838^{+5007}_{-622}

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 $A_{obs} \gg 1.0$

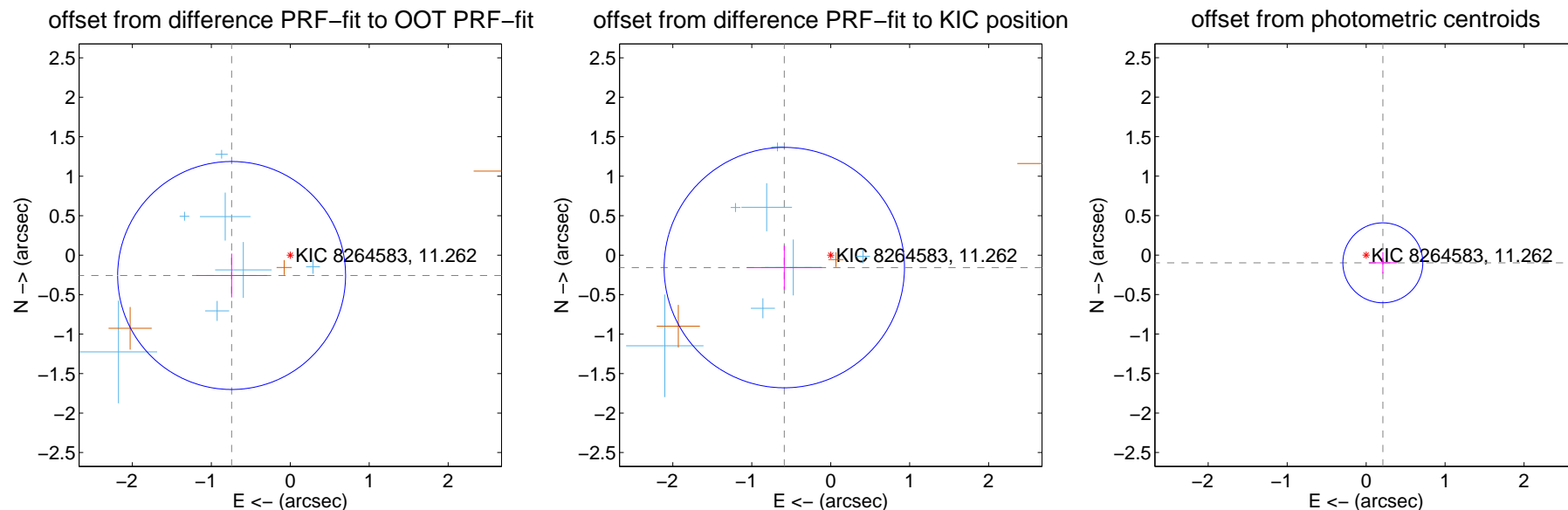
DV Centroid Data

Supplemental centroid analysis for 008264583-03. **Kepler magnitude: 11.26.** Transit SNR 9.99

There are 7 quarters with good PRF difference image offsets

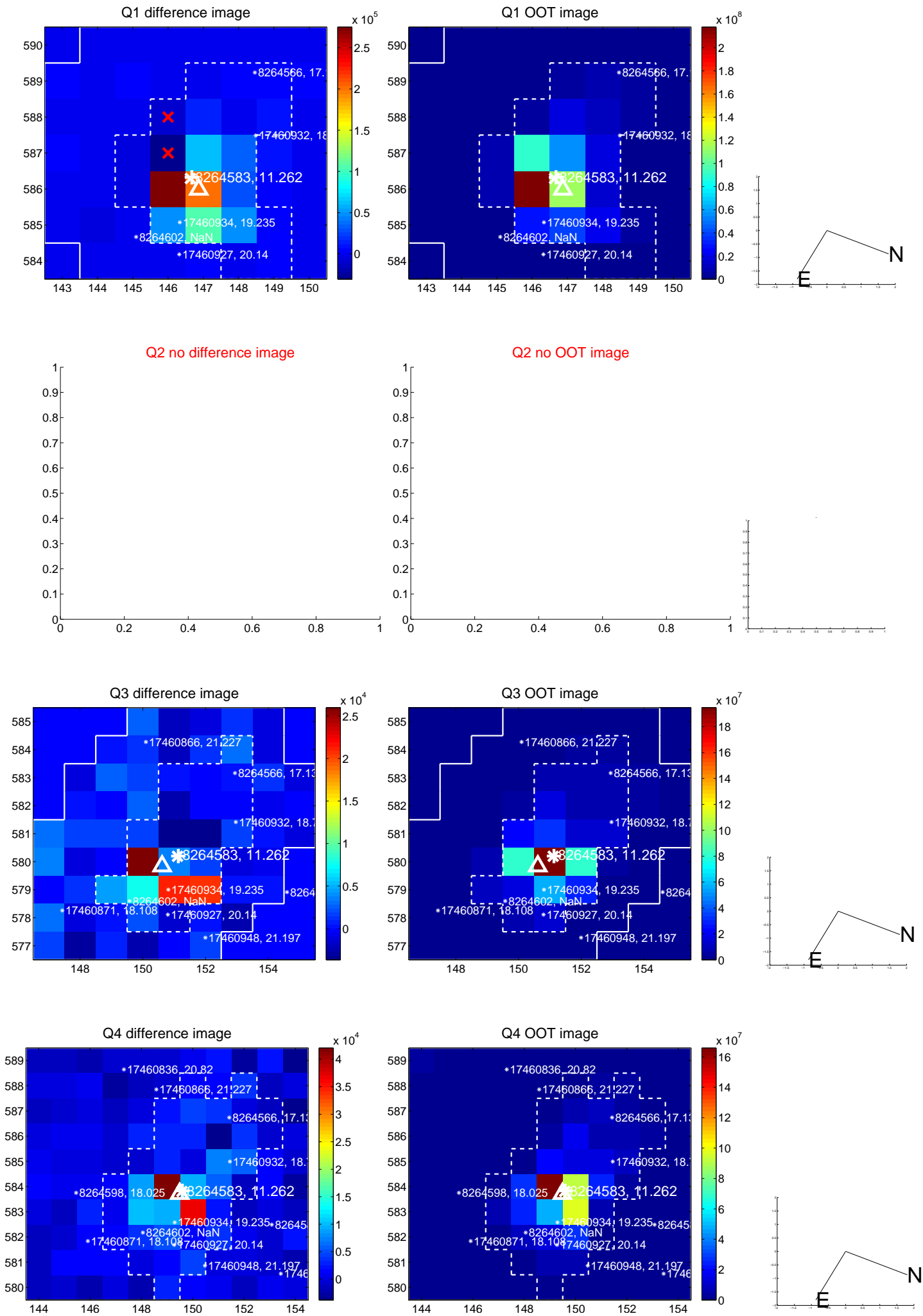
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.786 ± 0.481	1.63	0.743 ± 0.448	-0.258 ± 0.277
PRF-fit source offset from KIC position	0.609 ± 0.507	1.20	0.588 ± 0.478	-0.158 ± 0.278
photometric centroid source offset	0.23 ± 0.17	1.38	-0.21 ± 0.17	-0.10 ± 0.14

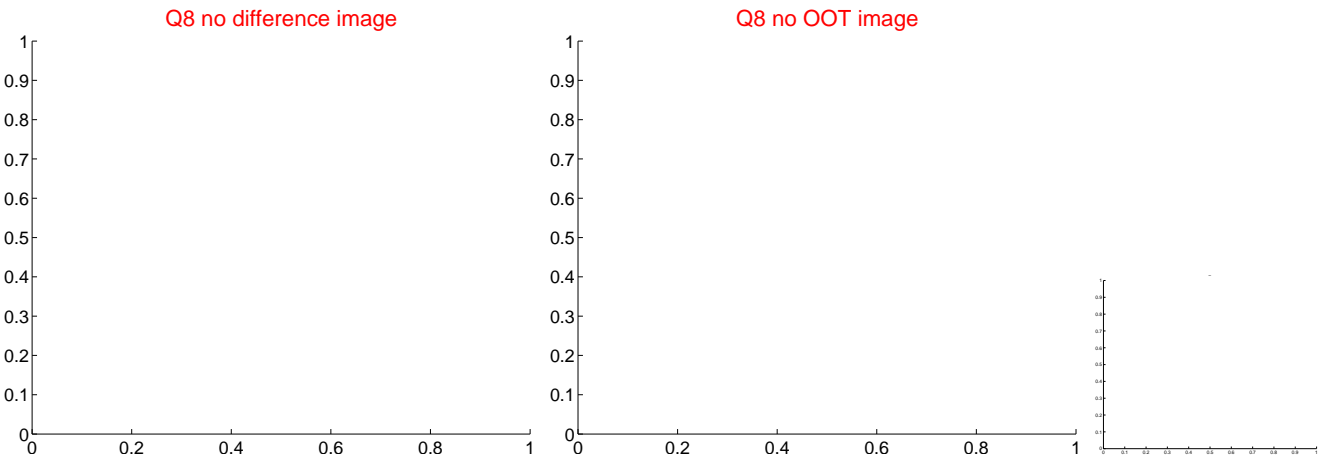
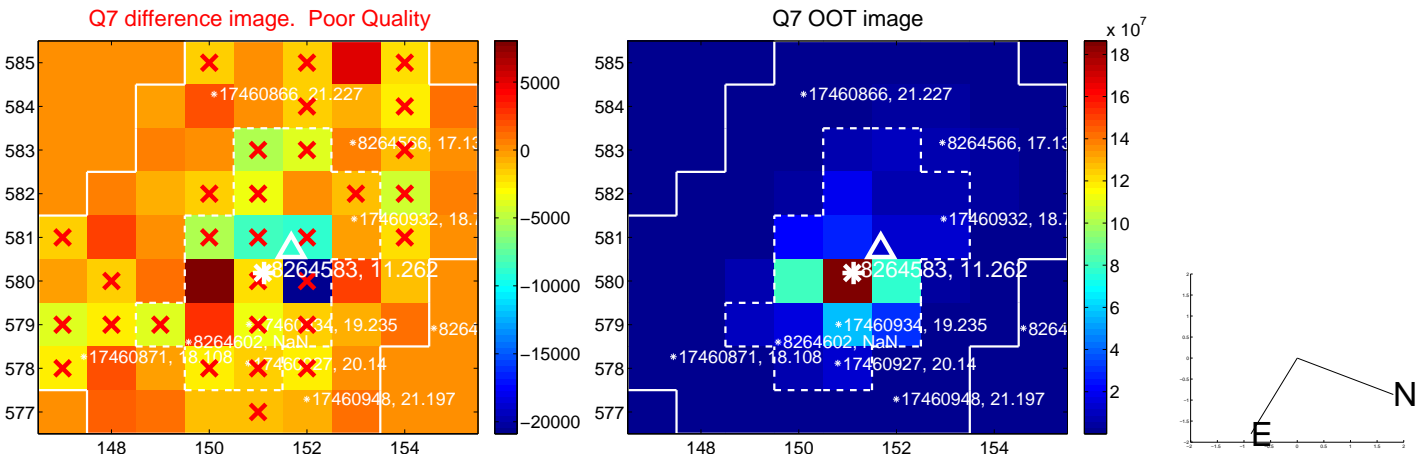
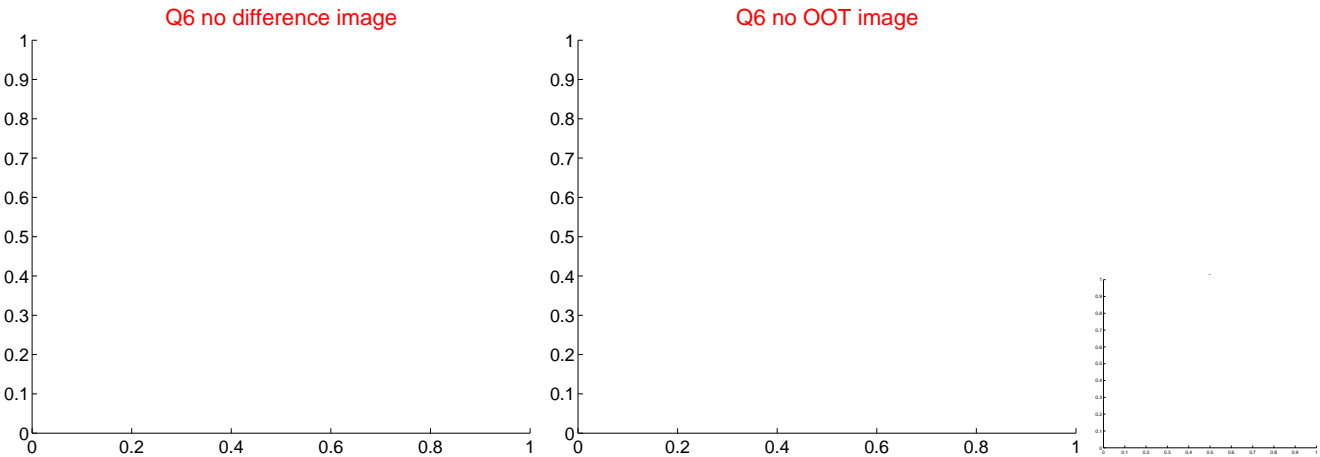
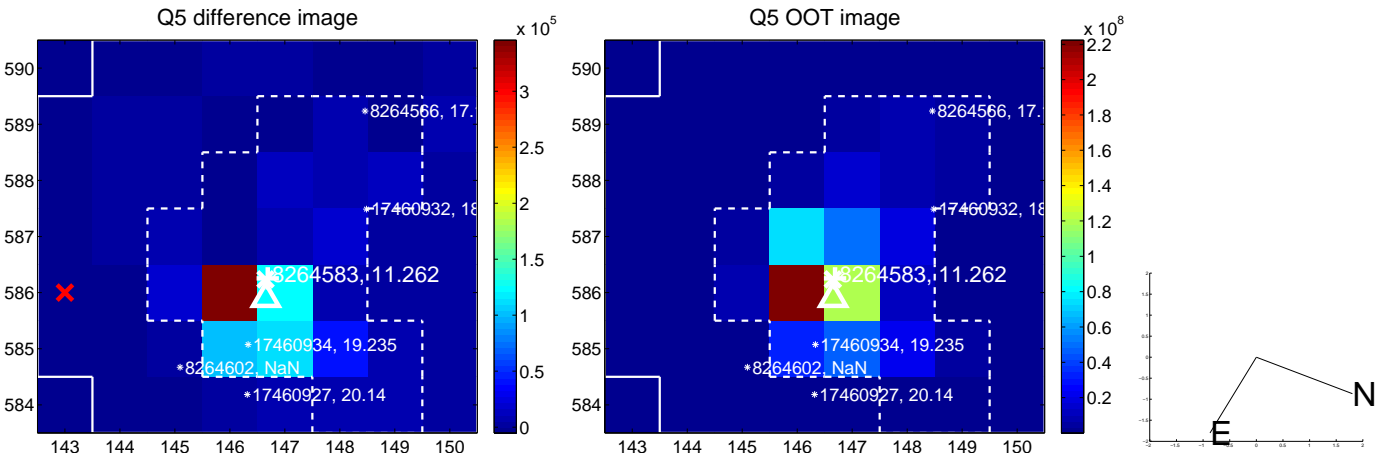


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

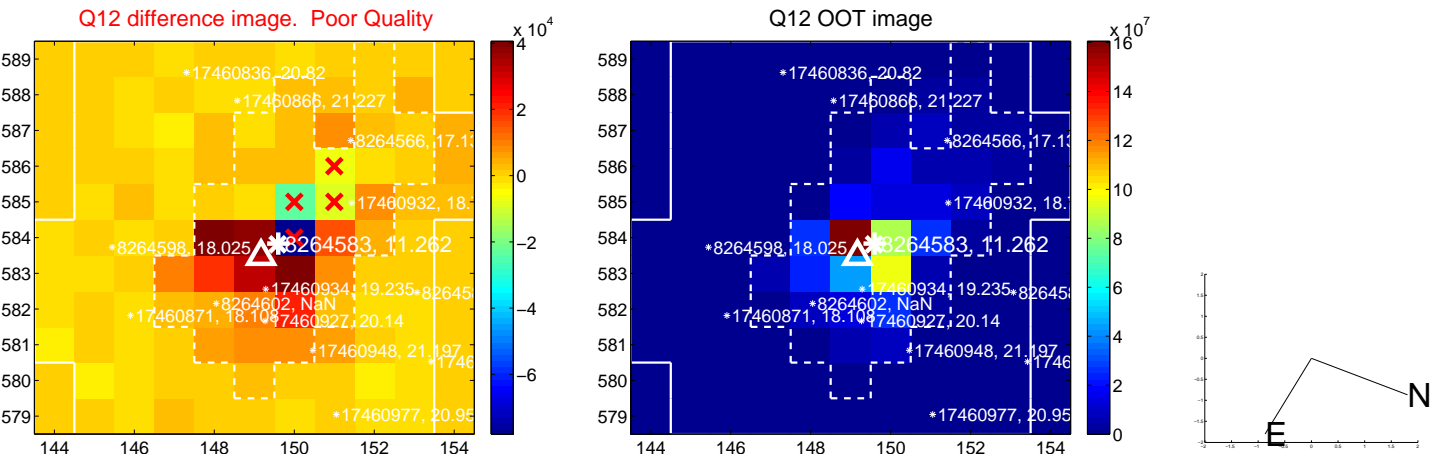
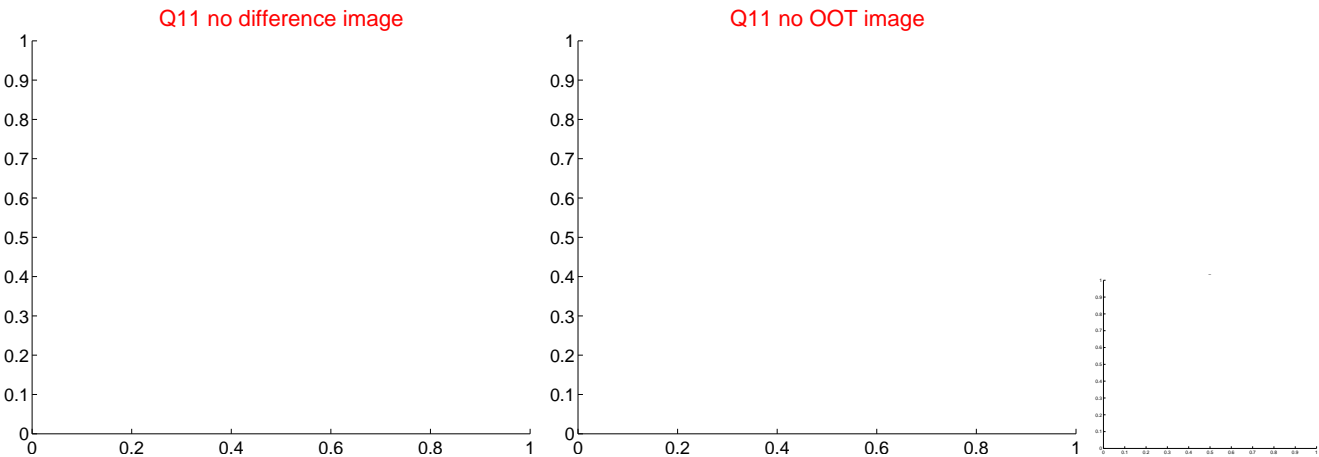
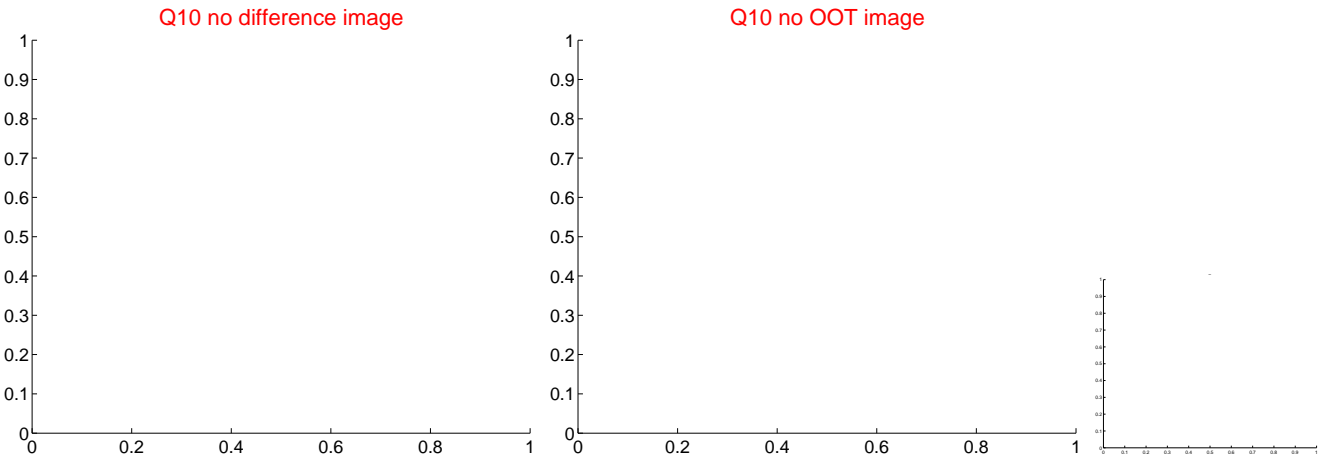
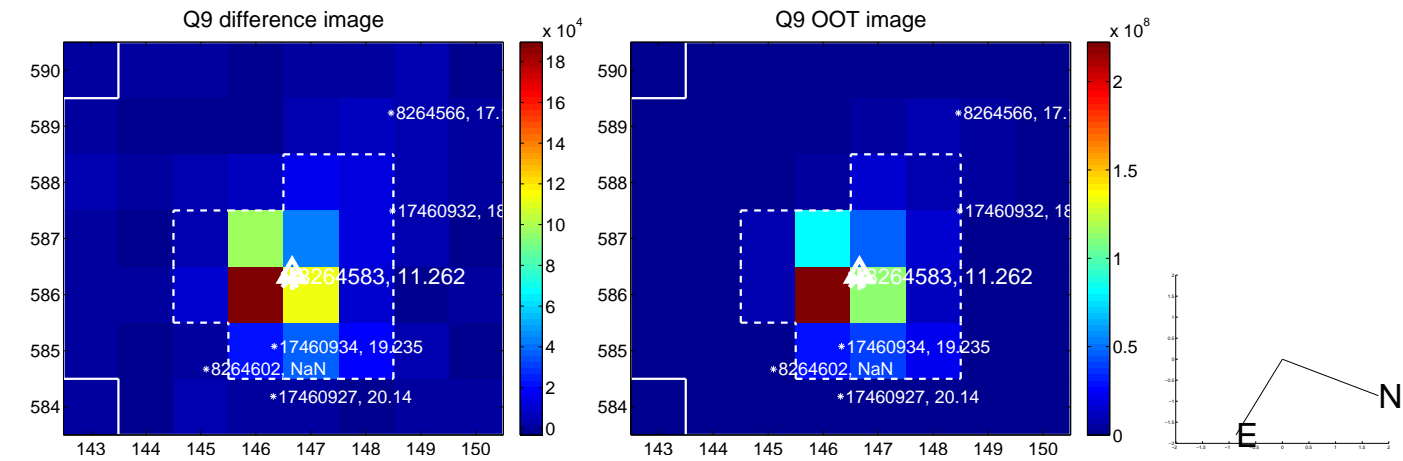
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



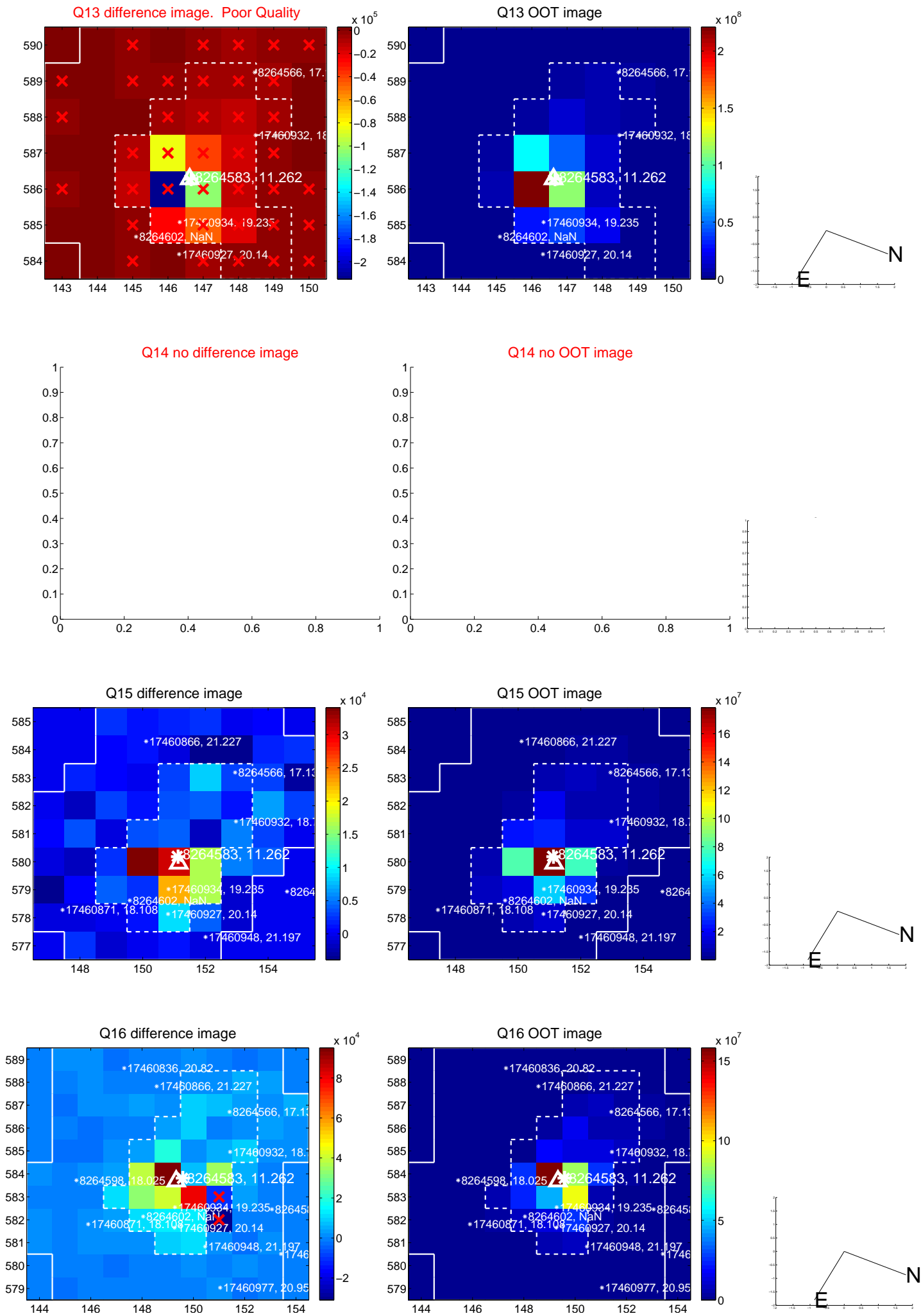
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



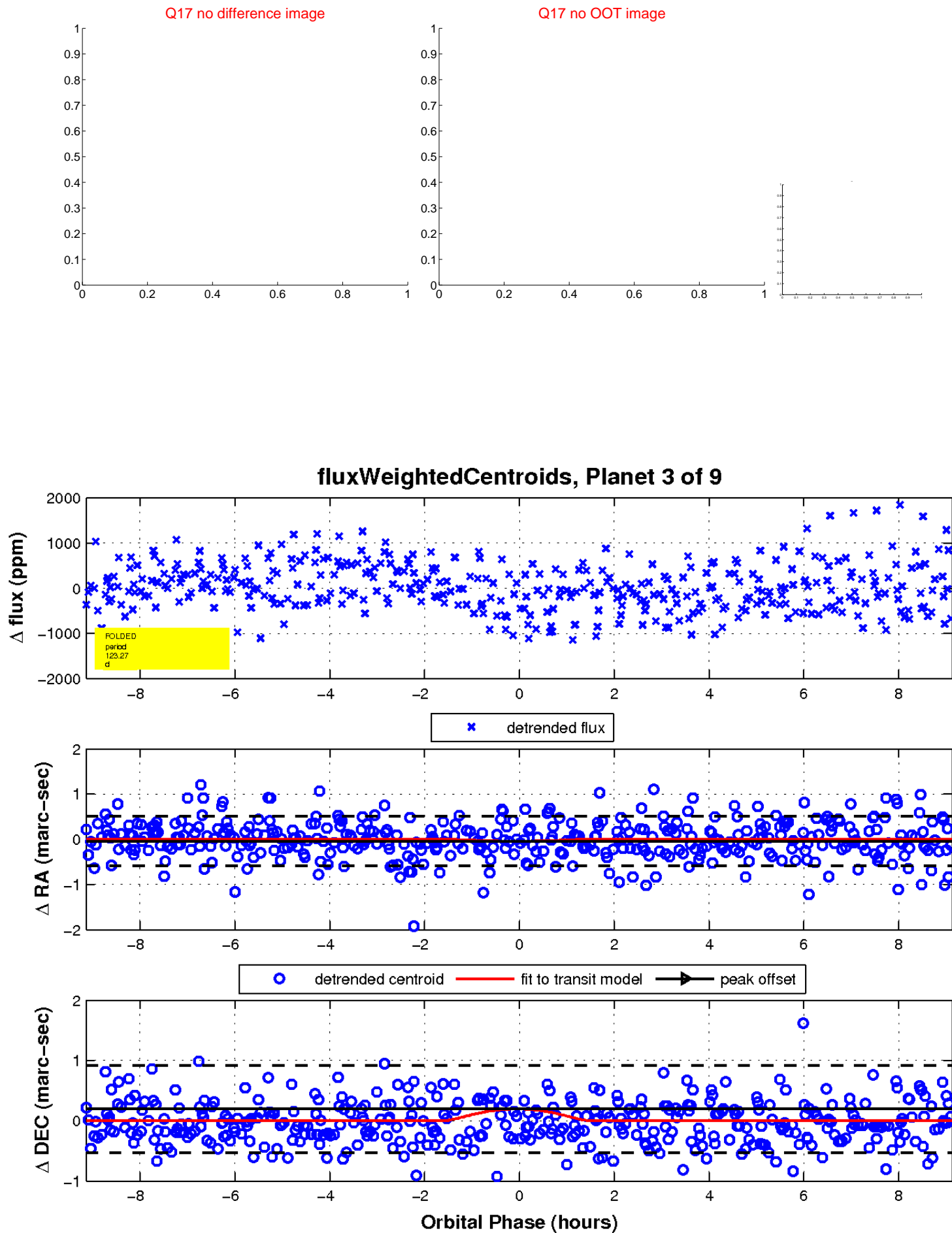
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

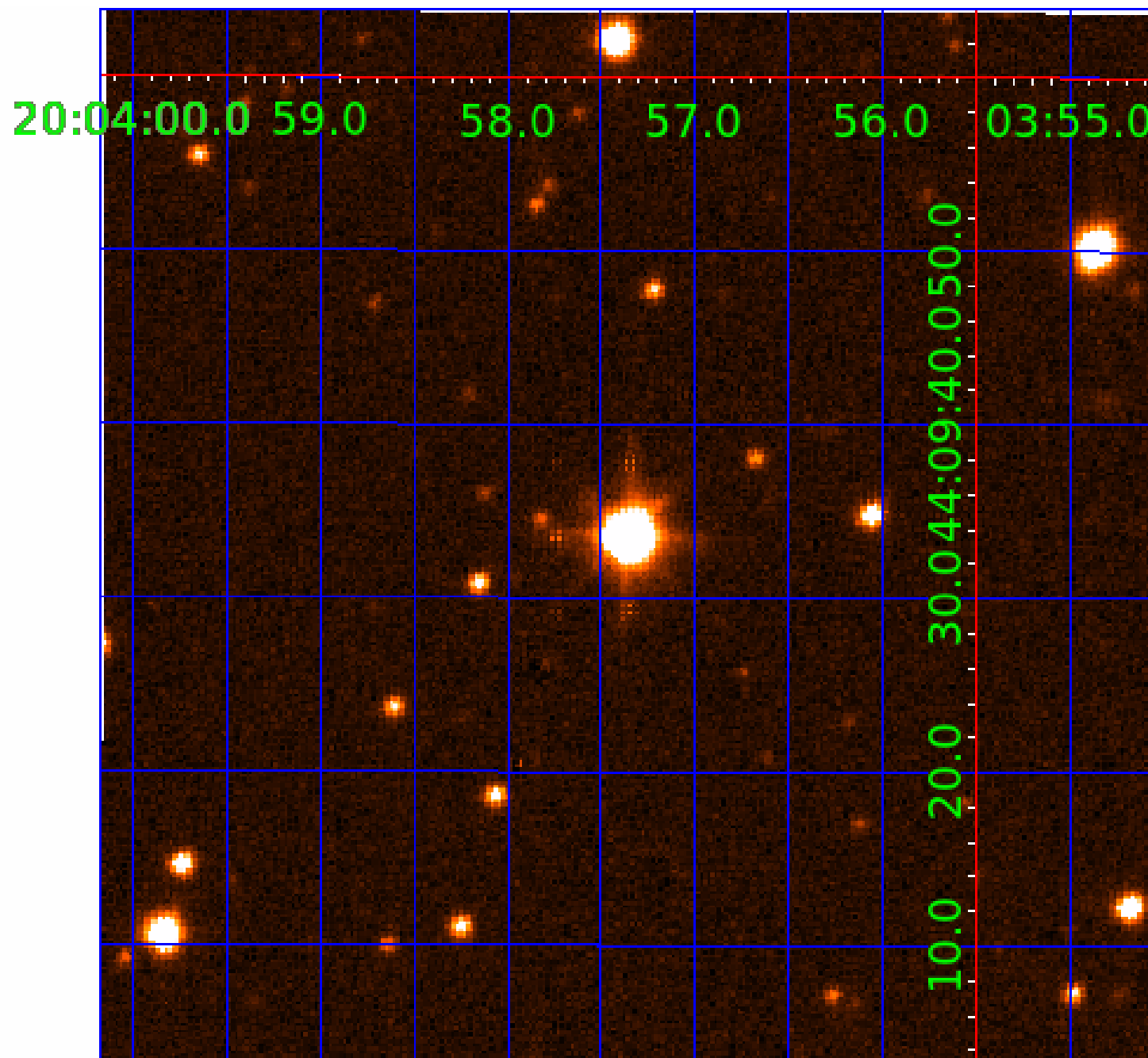


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264583

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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

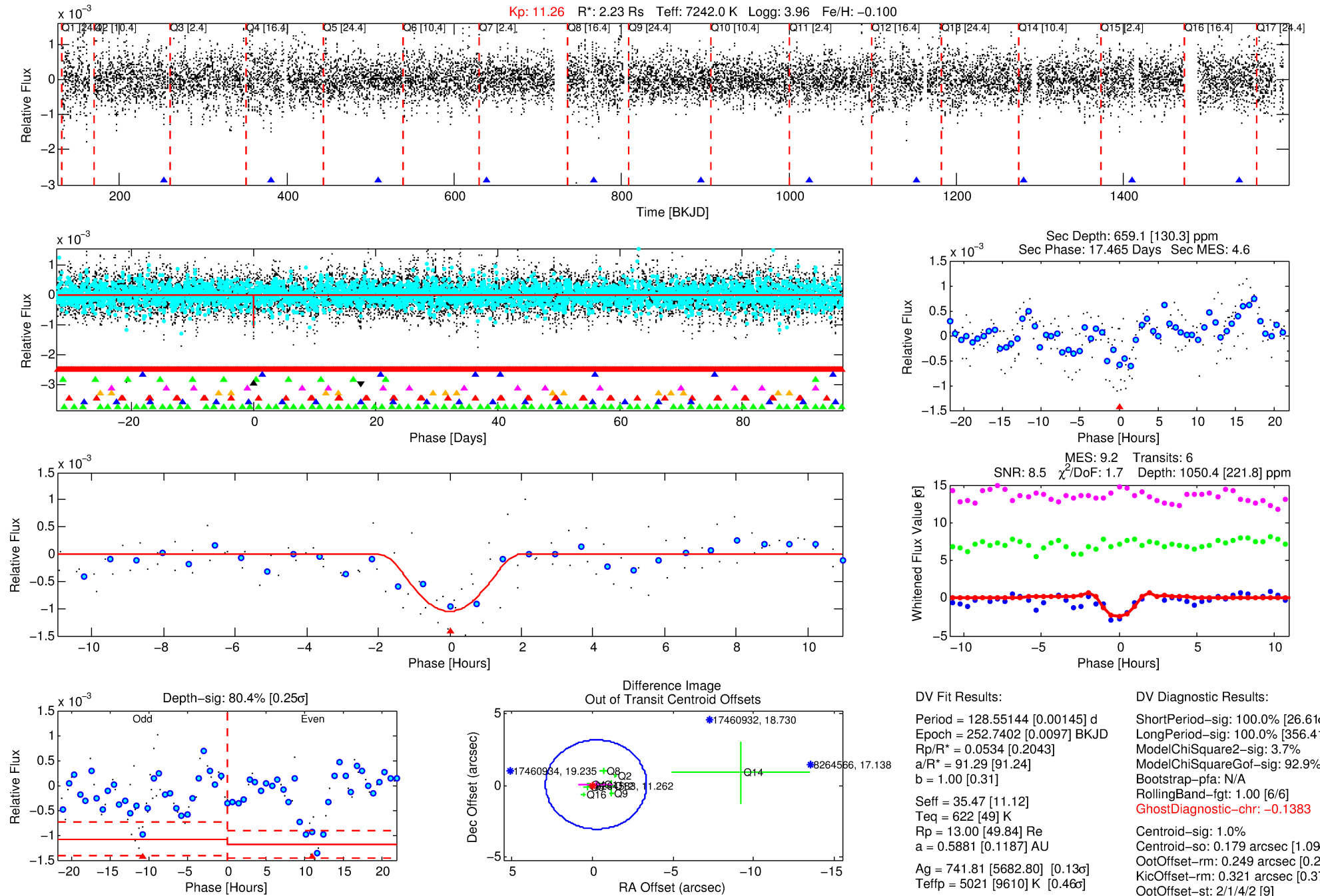
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-04

No Significant Match Found

DV One-Page Summary

KIC: 8264583 Candidate: 4 of 9 Period: 128.551 d



DV Fit Results:

Period = 128.55144 [0.00145] d
Epoch = 252.7402 [0.0097] BKJD
Rp/R* = 0.0534 [0.2043]
a/R* = 91.29 [91.24]
b = 1.00 [0.31]
Seff = 35.47 [11.12]
Teq = 622 [49] K
Rp = 13.00 [49.84] Re
a = 0.5881 [0.1187] AU
Ag = 741.81 [5682.80] [0.13 σ]
Teff = 5021 [9610] K [0.46 σ]

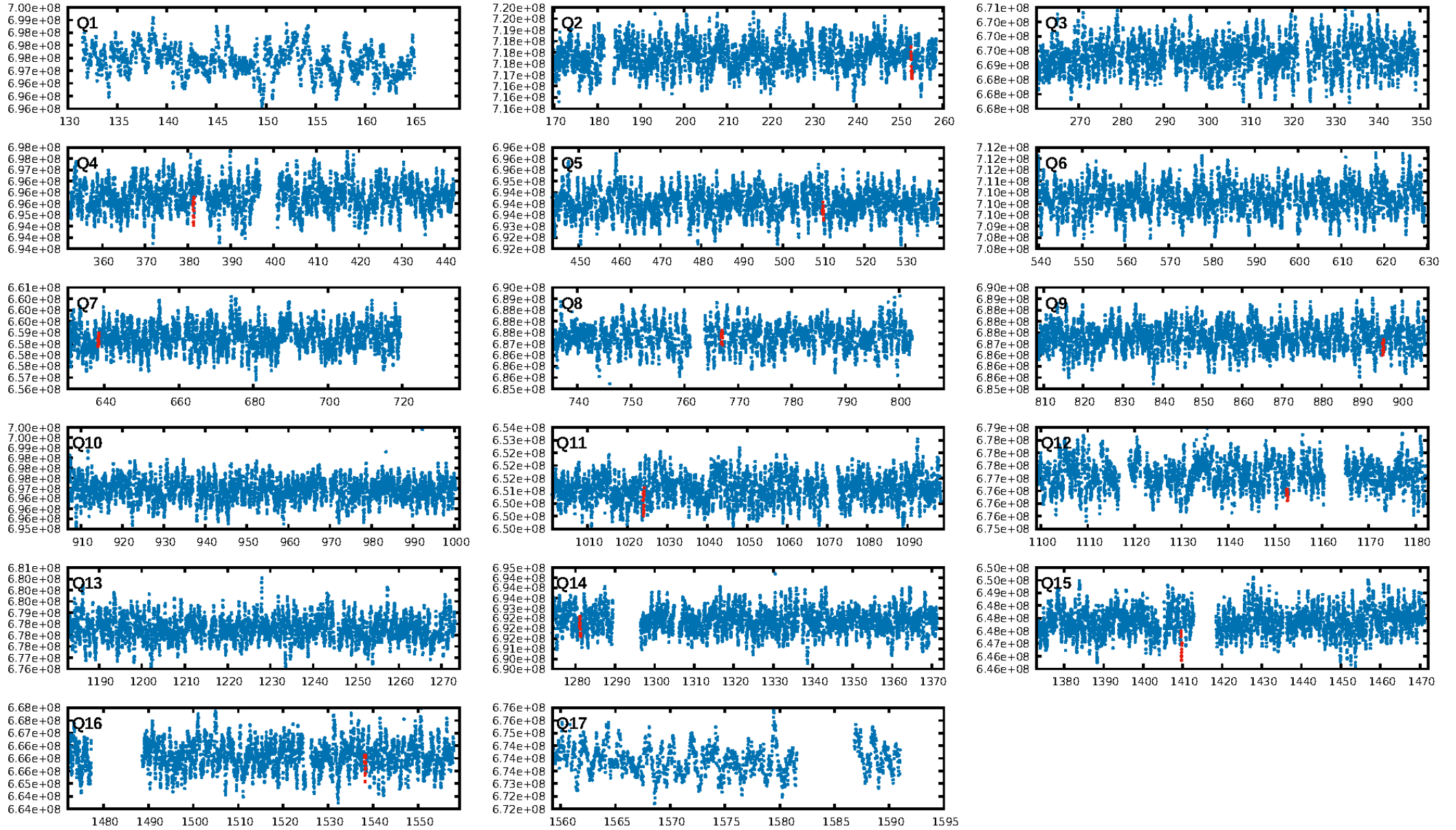
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [26.61 σ]
LongPeriod-sig: 100.0% [356.41 σ]
ModelChiSquare2-sig: 3.7%
ModelChiSquareGof-sig: 92.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -0.1383
Centroid-sig: 1.0%
Centroid-so: 0.179 arcsec [1.09 σ]
OotOffset-rm: 0.249 arcsec [0.24 σ]
KicOffset-rm: 0.321 arcsec [0.37 σ]
OotOffset-st: 2/1/4/2 [9]
KicOffset-st: 2/1/4/2 [9]
DiffImageQuality-fgm: 0.67 [6/9]
DiffImageOverlap-fno: 0.00 [0/10]

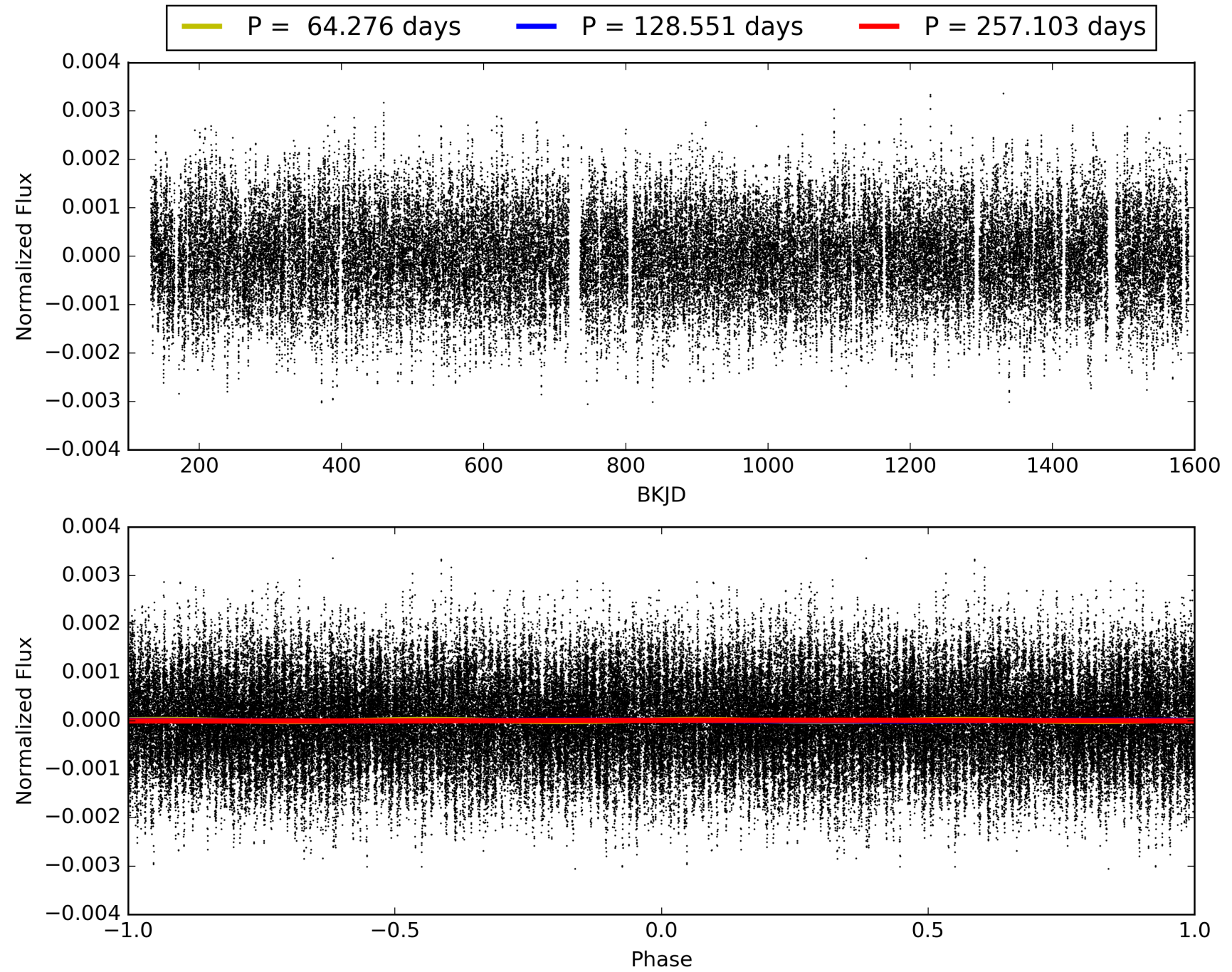
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:44:51 Z

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

TCE 008264583-04, PDC Light Curves

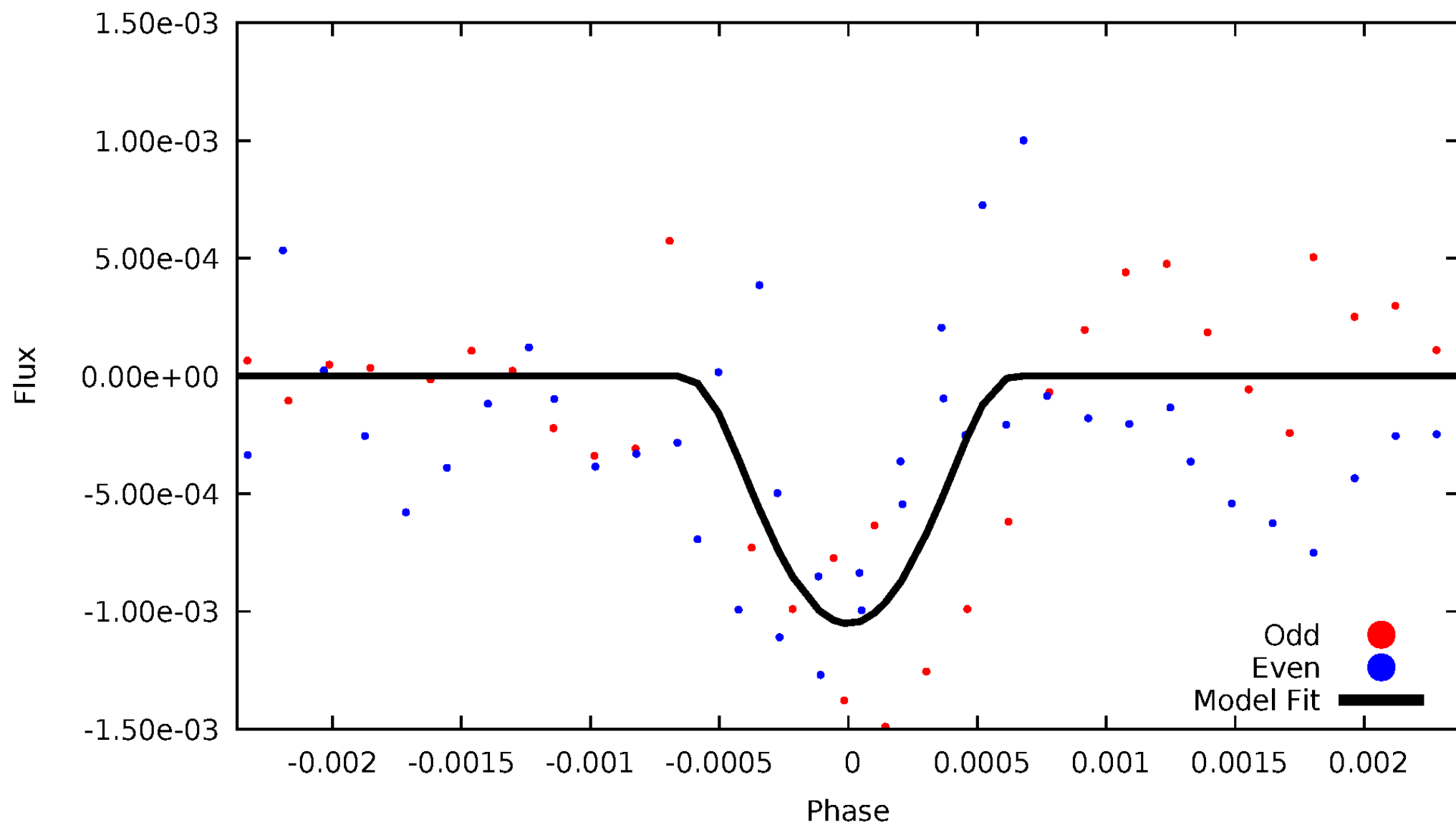


TCE 008264583-04



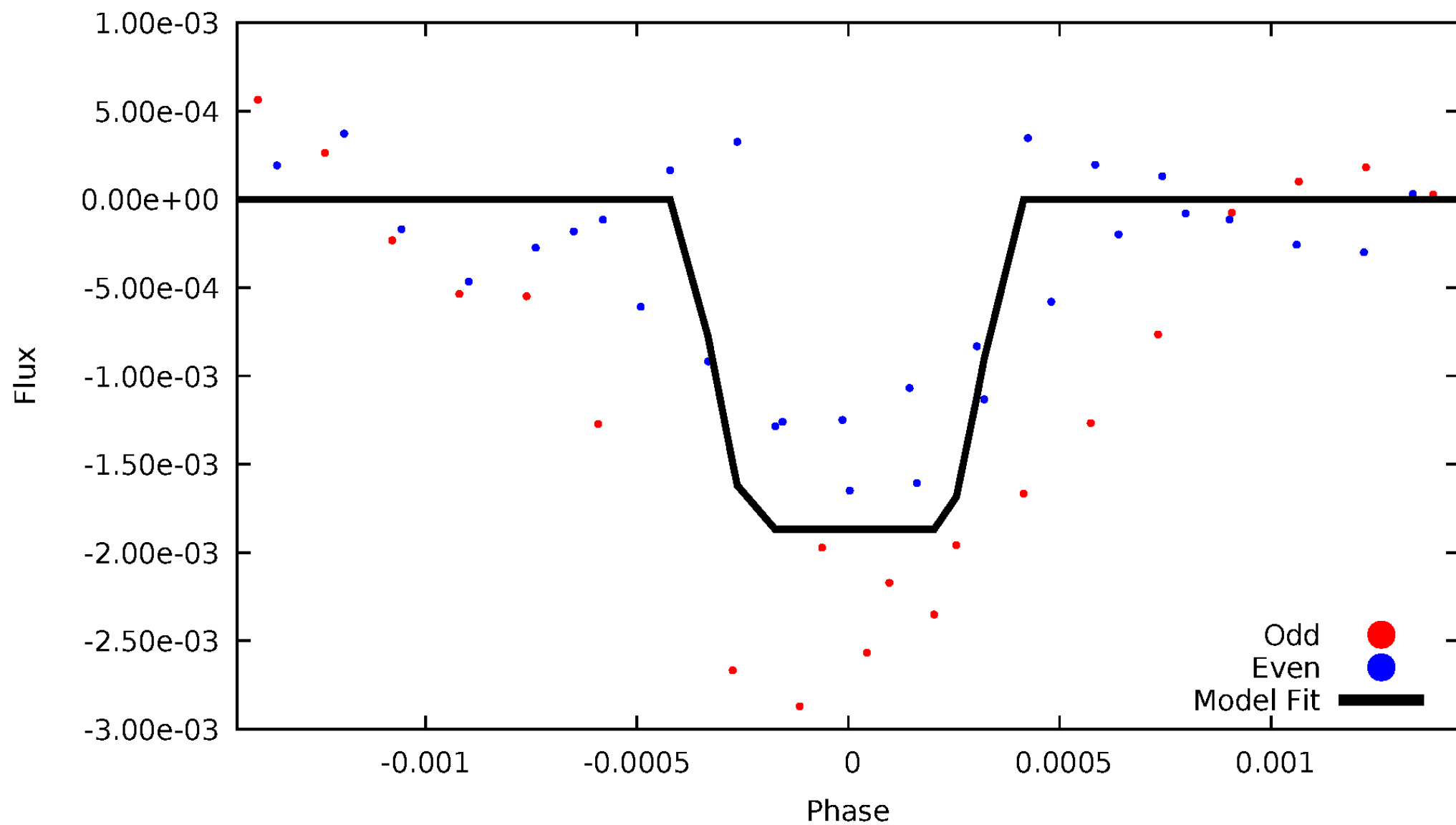
DV Odd/Even

TCE 008264583-04



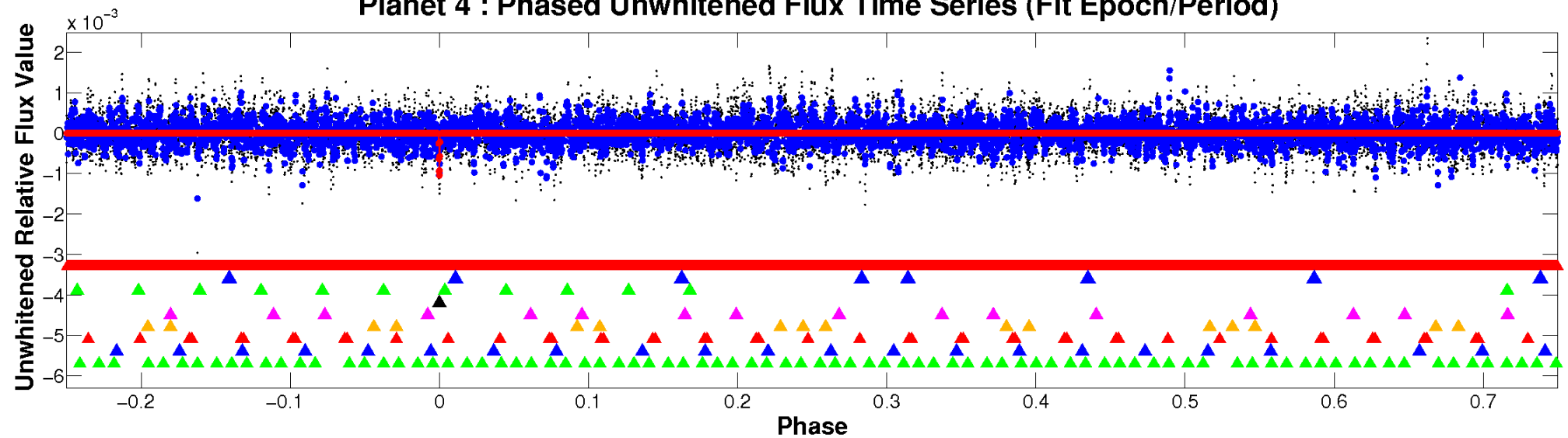
ALT Odd/Even

TCE 008264583-04

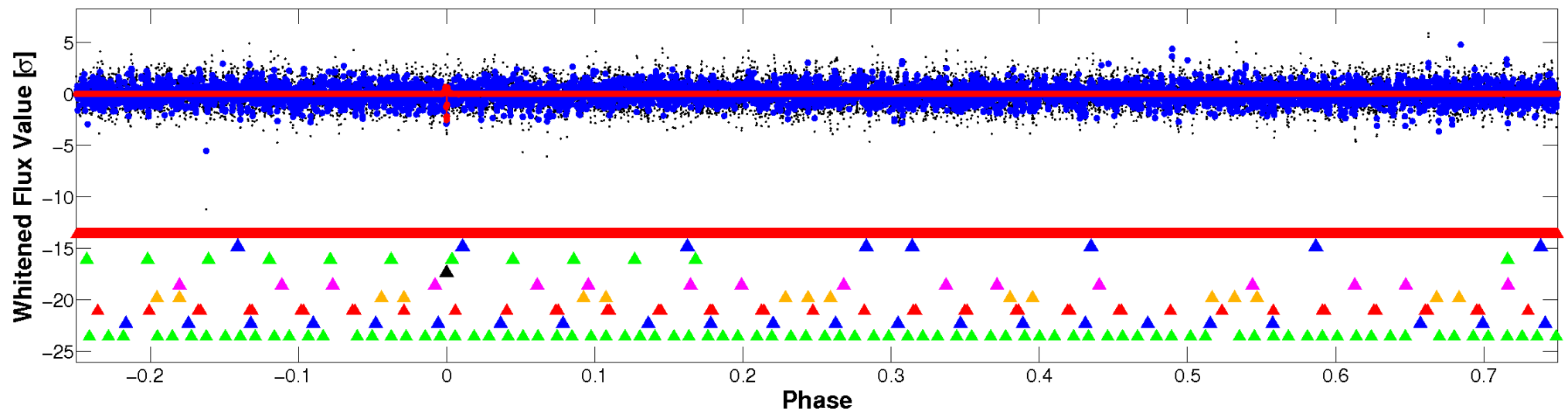


Non-Whitened Vs. Whitened Light Curve

Planet 4 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

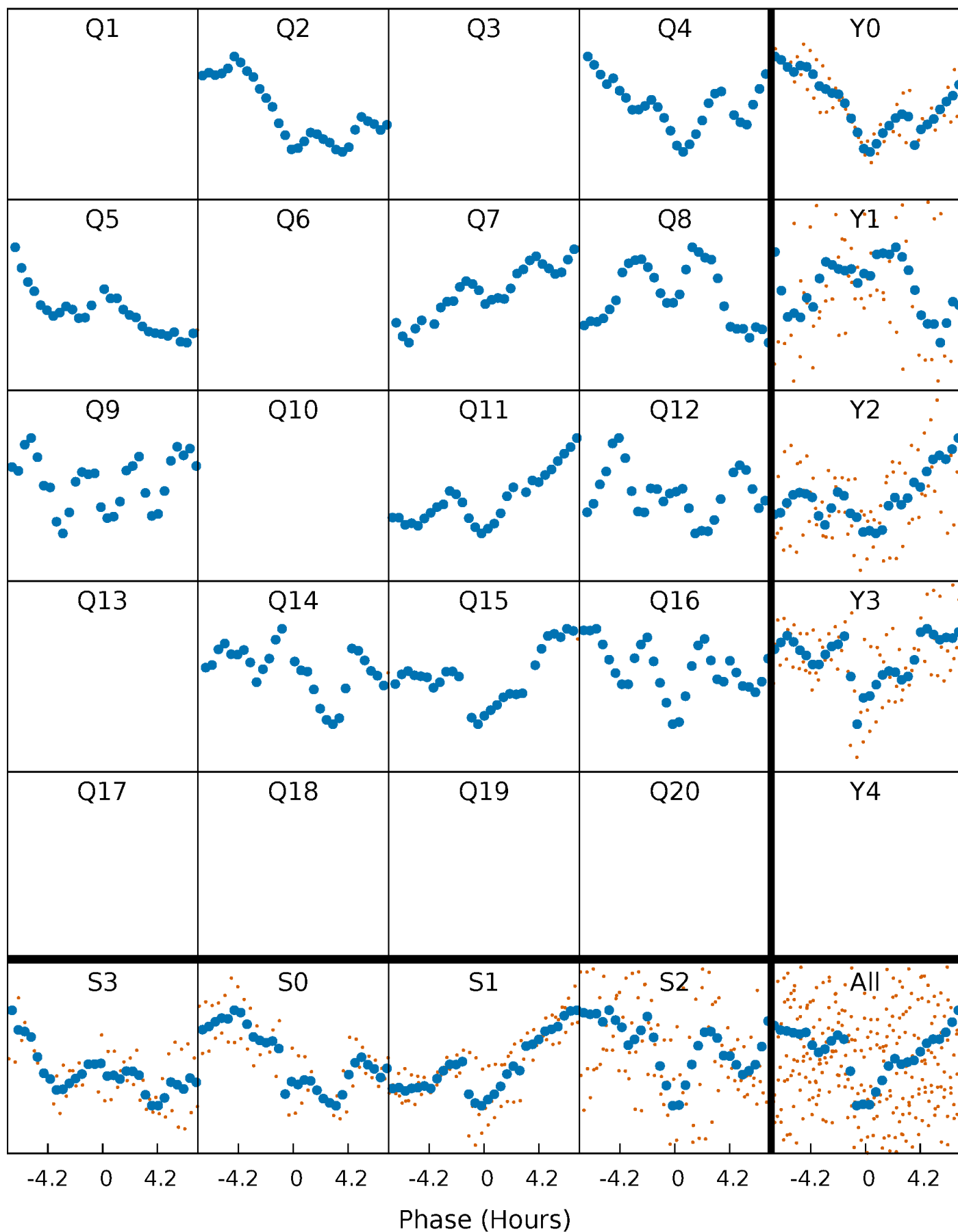


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



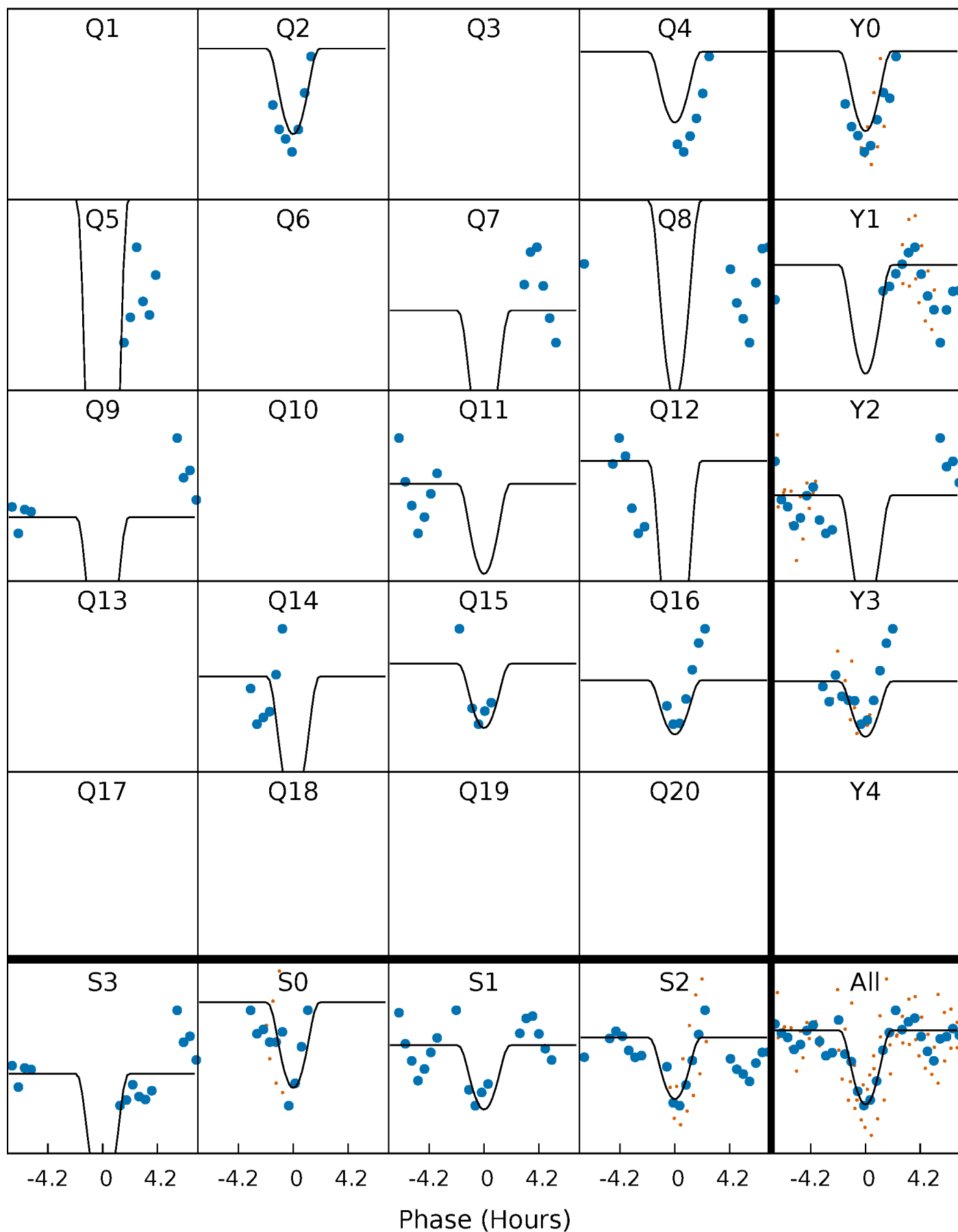
PDC Quarter-Phased Transit Curves

TCE 008264583-04 P=128.551444 Days $T_0=252.740234$ (BKJD)



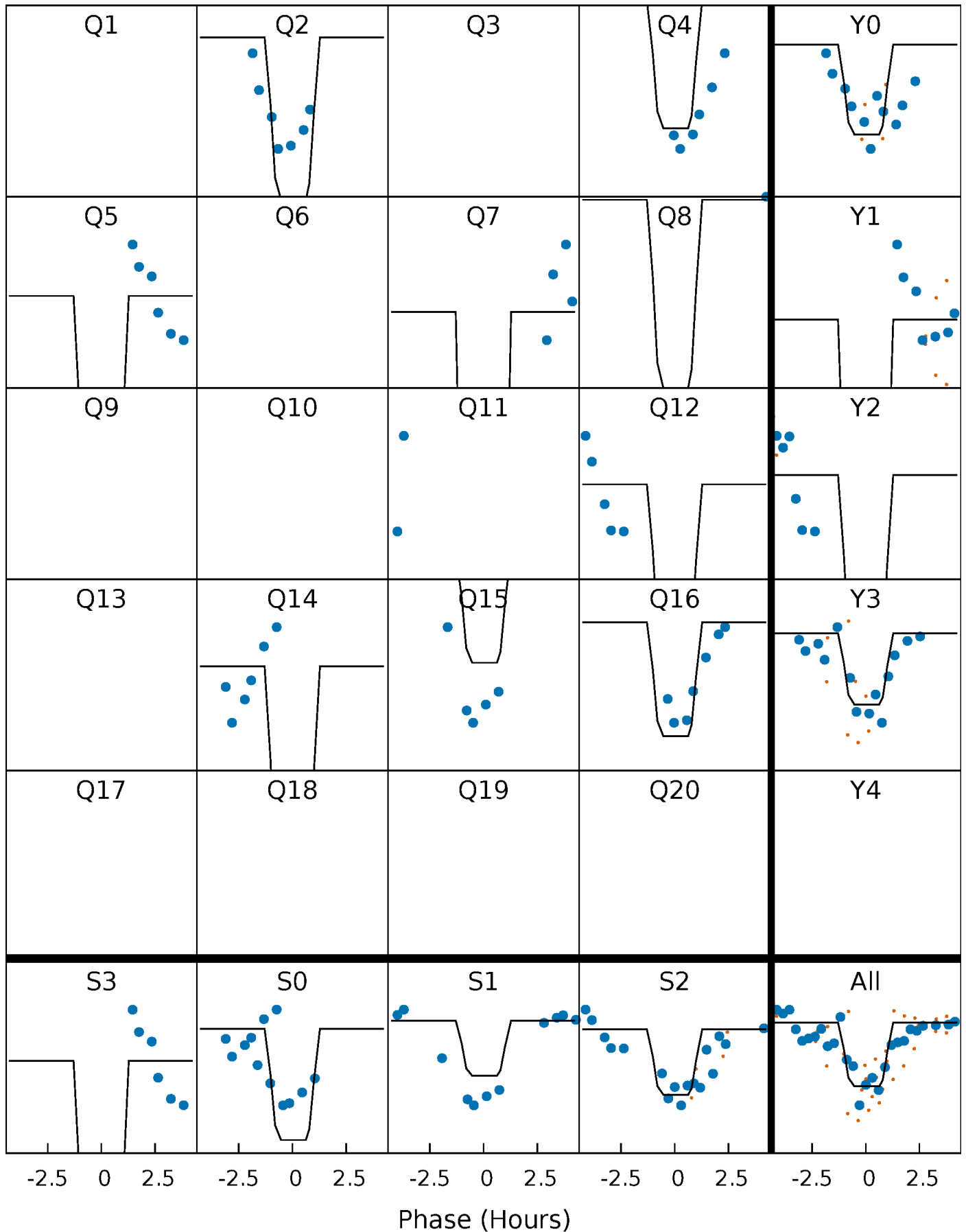
DV Quarter-Phased Transit Curves

TCE 008264583-04 P=128.551444 Days $T_0=252.740234$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

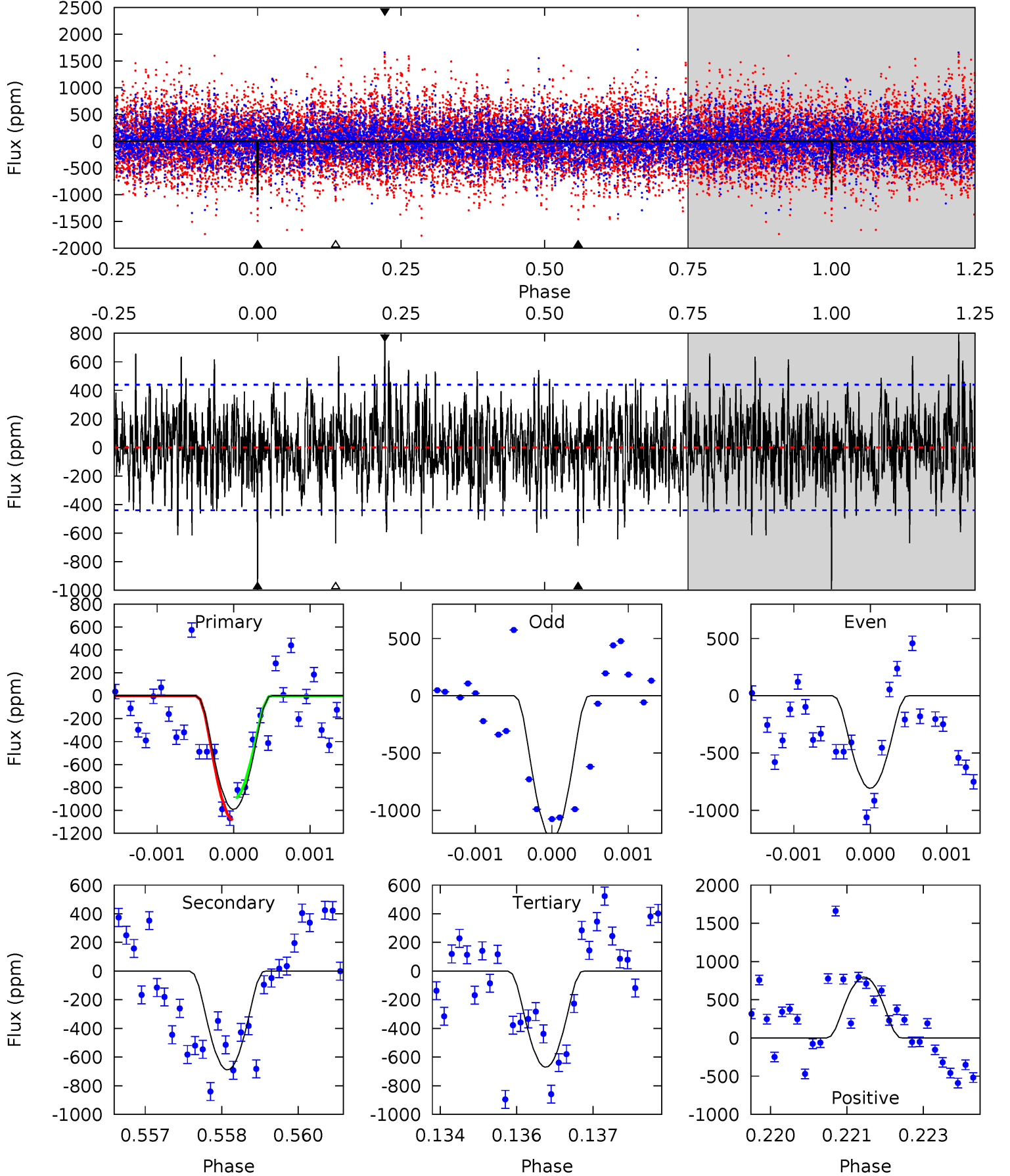
TCE 008264583-04 P=128.549071 Days $T_0=252.748616$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-04, P = 128.551444 Days, E = 124.188790 Days

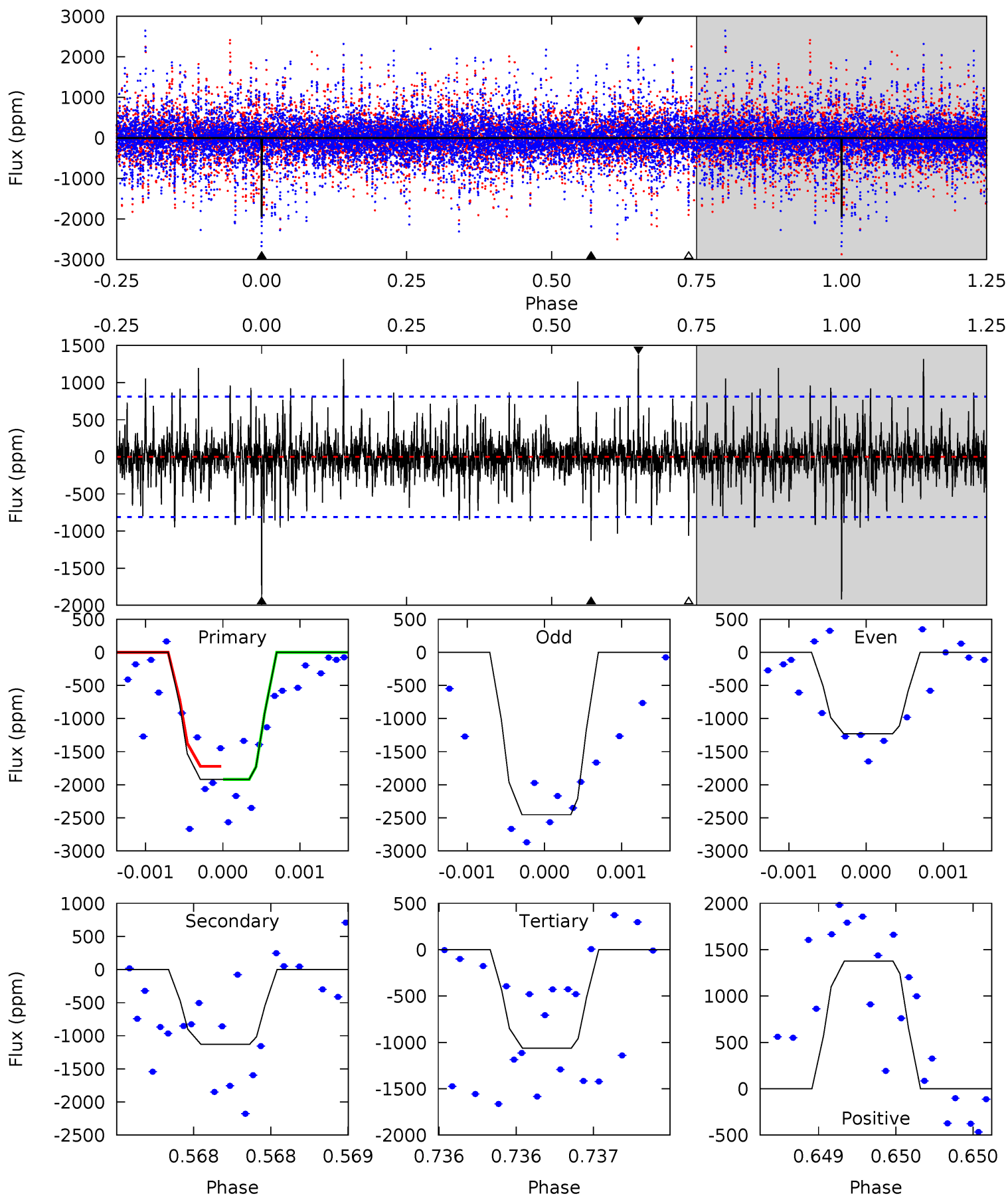
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.2	8.46	8.24	9.79	5.40	3.21	2.47	3.95	2.40	0.22	-1.33	2.52	0.81	0.45	1.16



Alt Model-Shift Uniqueness Test

008264583-04, P = 128.549071 Days, E = 124.199545 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.1	7.71	7.26	9.39	5.54	3.43	1.72	5.85	3.71	0.45	-1.69	4.13	1.04	0.42	0.62



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-689 ± 81	$36.79^{+39.18}_{-25.02}$	867^{+40}_{-56}	3443^{+1811}_{-645}	95^{+837}_{-72}
Alt.	-1129 ± 146	$40.89^{+38.87}_{-28.86}$	864^{+47}_{-52}	3591^{+2167}_{-625}	127^{+1374}_{-94}

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 $A_{obs} \gg 1.0$

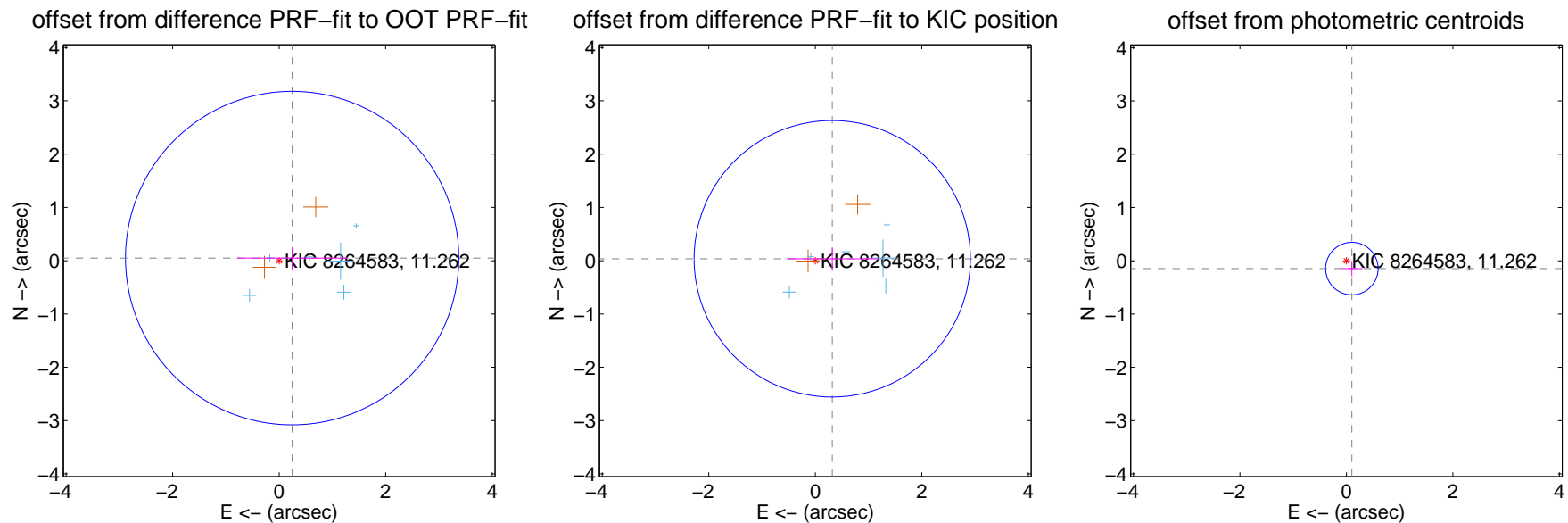
DV Centroid Data

Supplemental centroid analysis for 008264583-04. **Kepler magnitude: 11.26.** Transit SNR 8.53

There are 6 quarters with good PRF difference image offsets

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

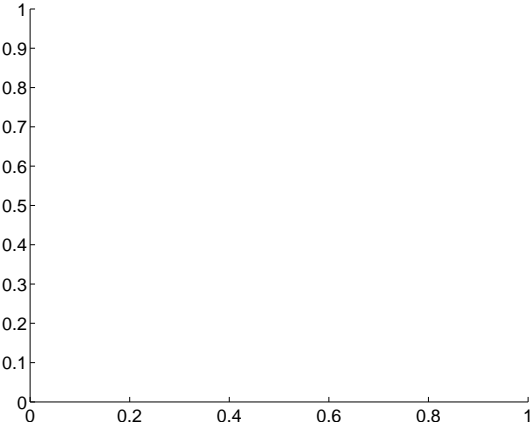
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.249 ± 1.043	0.24	-0.244 ± 1.037	0.048 ± 0.209
PRF-fit source offset from KIC position	0.321 ± 0.865	0.37	-0.319 ± 0.857	0.036 ± 0.213
photometric centroid source offset	0.18 ± 0.16	1.09	-0.10 ± 0.20	-0.15 ± 0.14



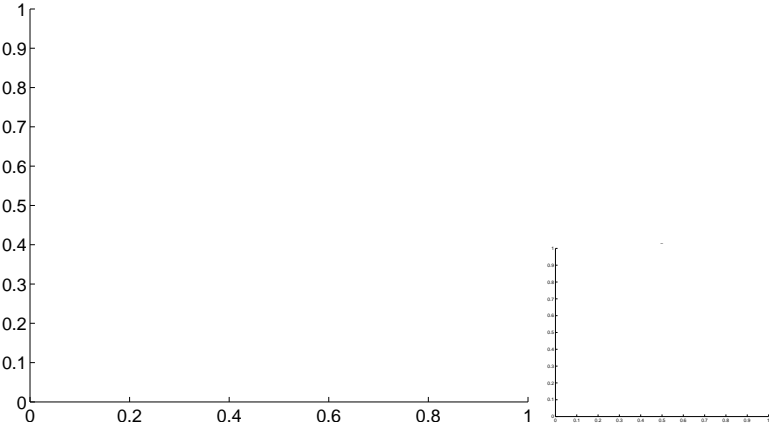
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

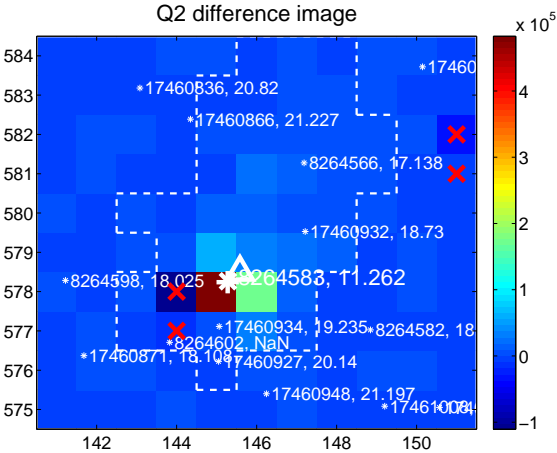
Q1 no difference image



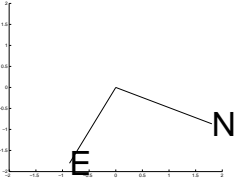
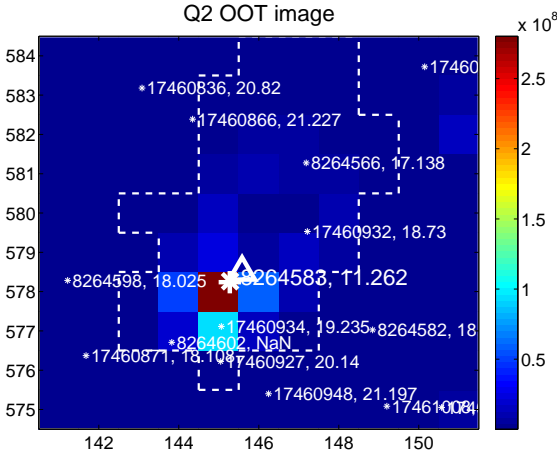
Q1 no OOT image



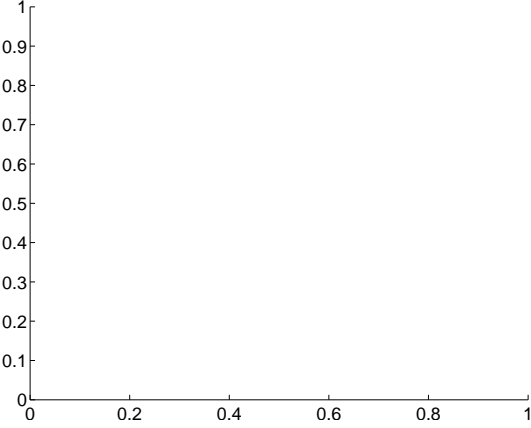
Q2 difference image



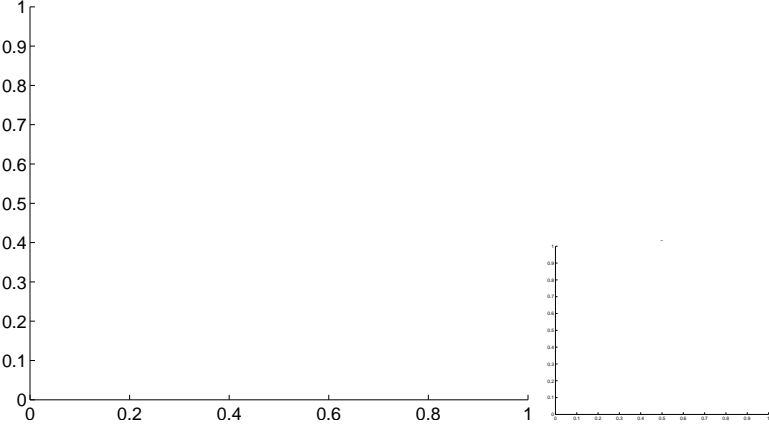
Q2 OOT image



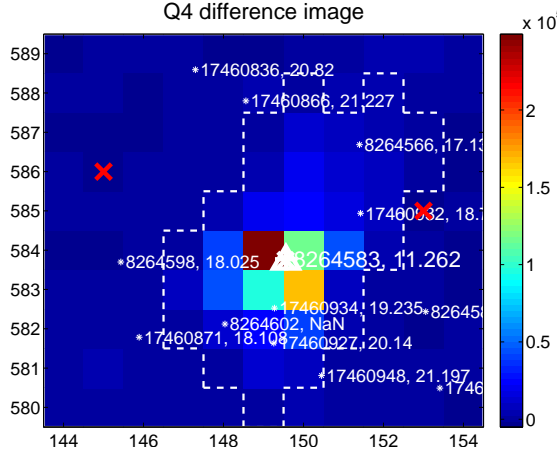
Q3 no difference image



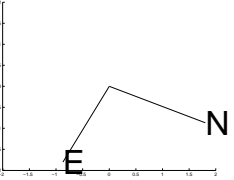
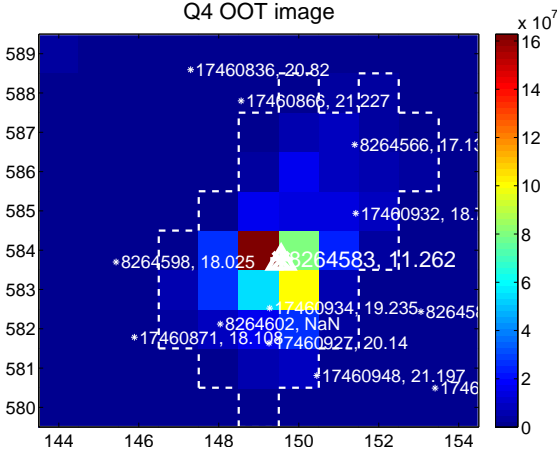
Q3 no OOT image



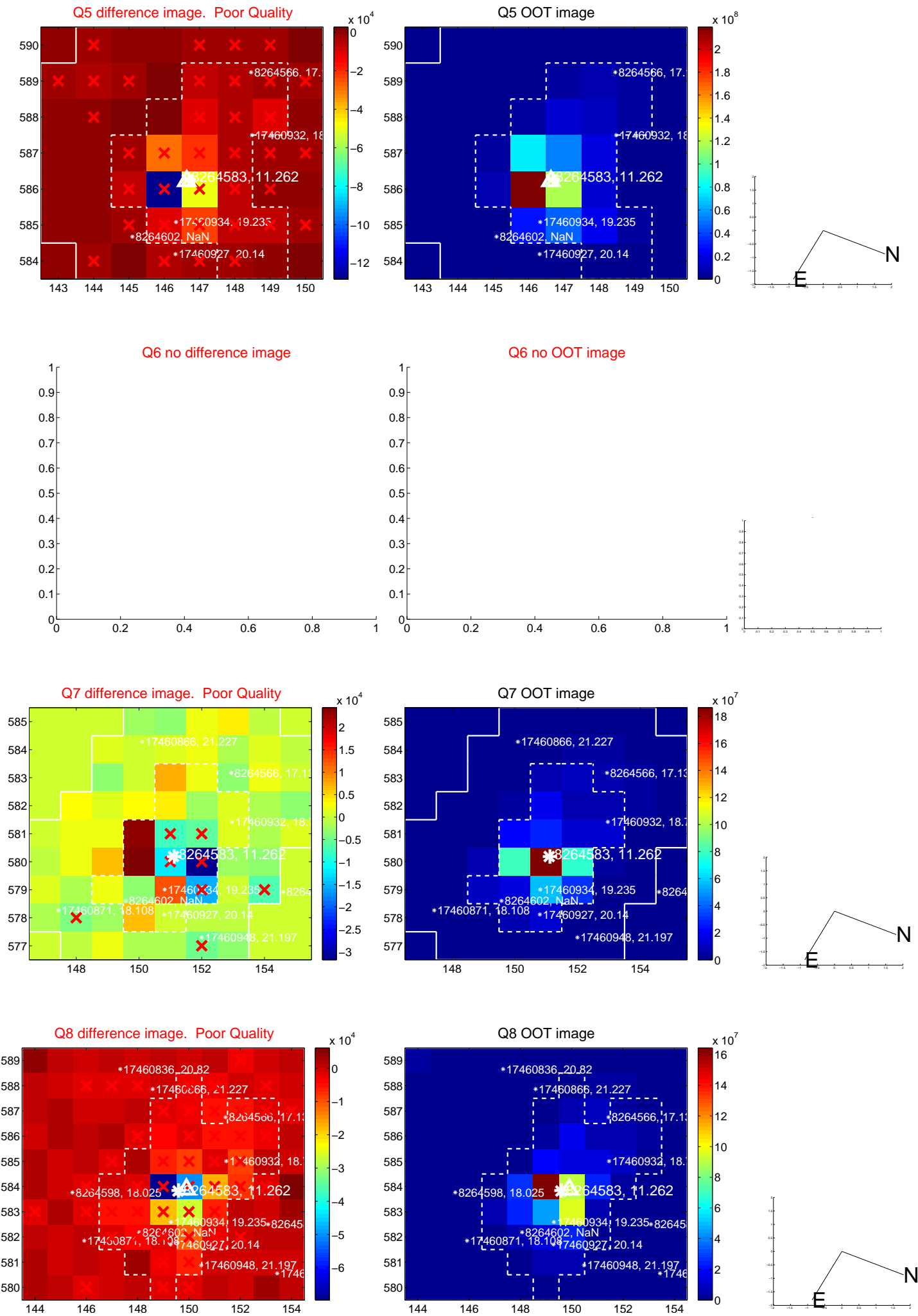
Q4 difference image



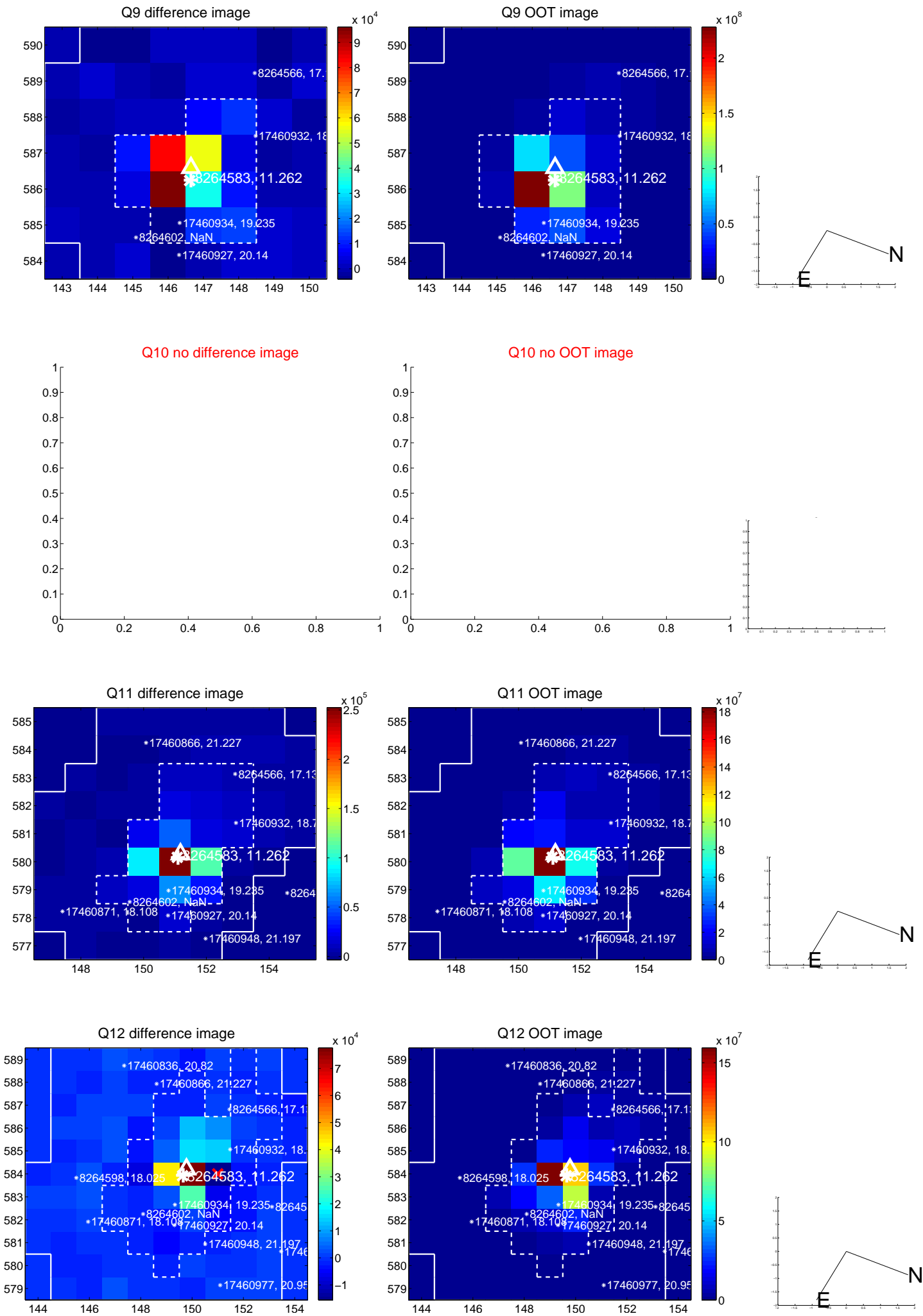
Q4 OOT image



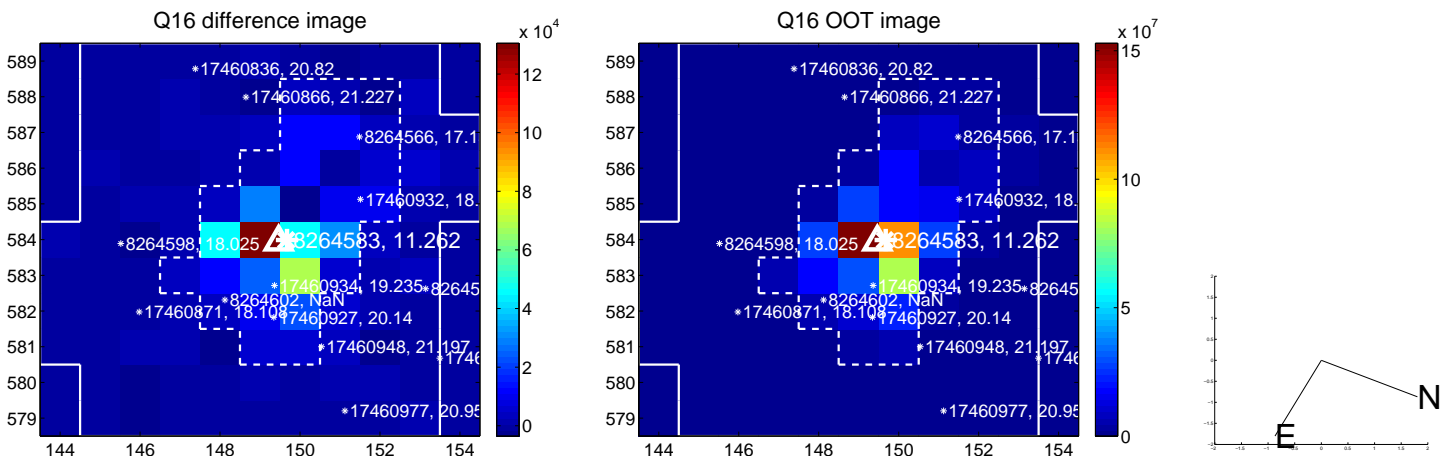
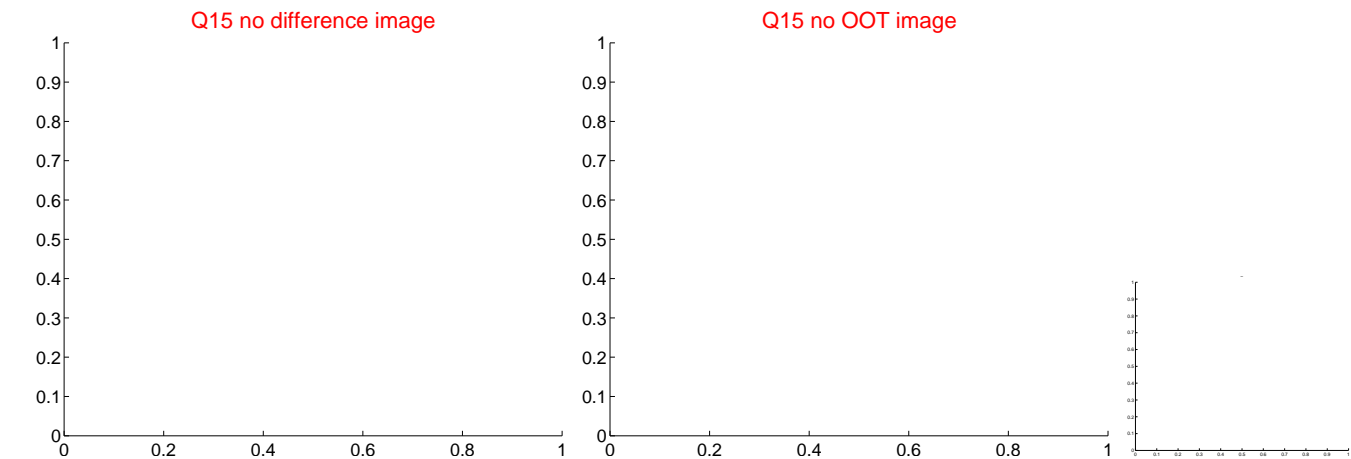
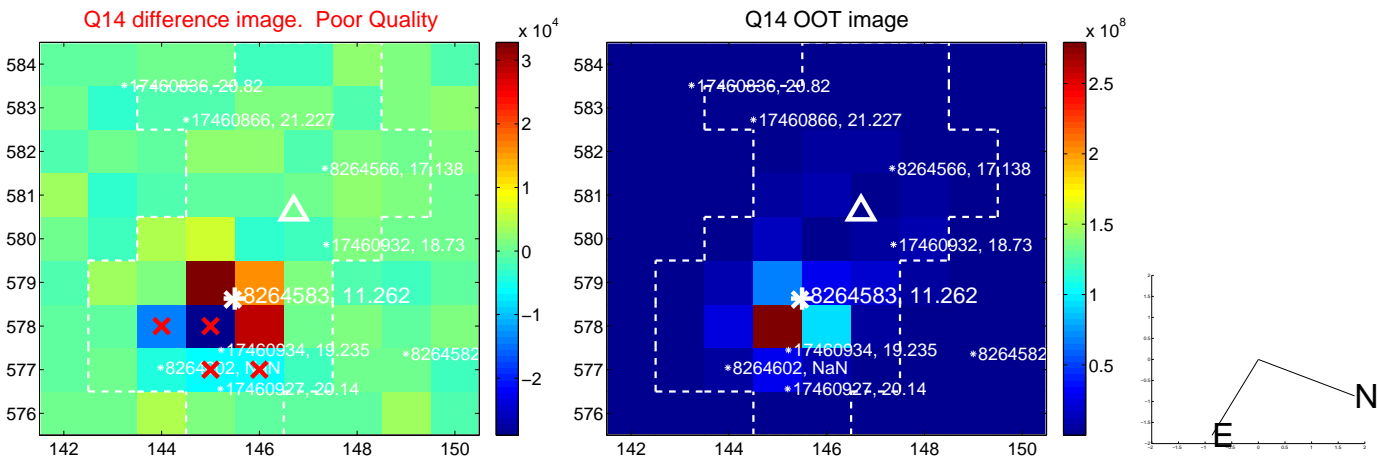
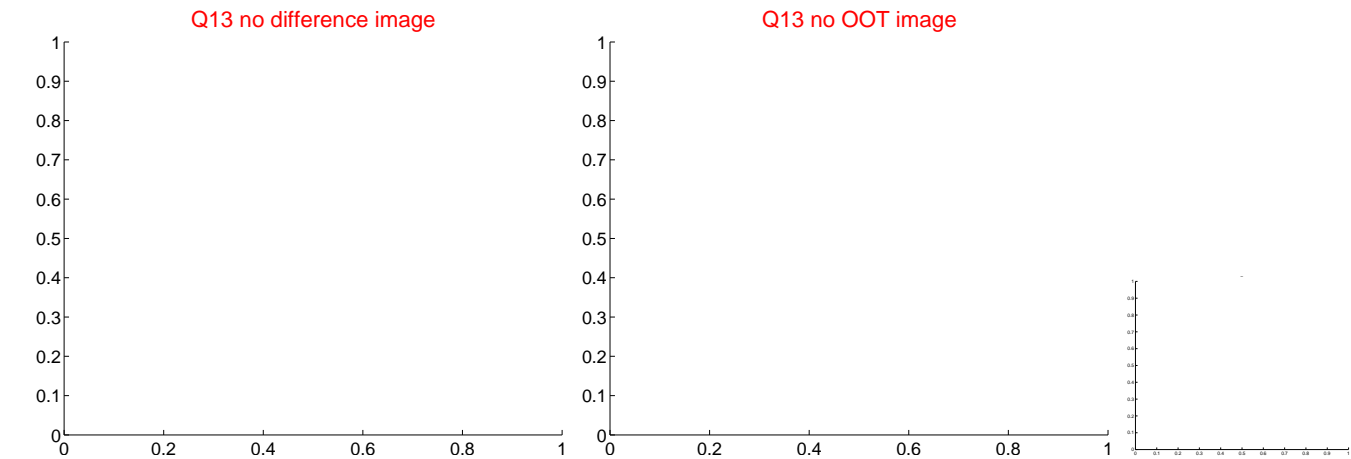
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



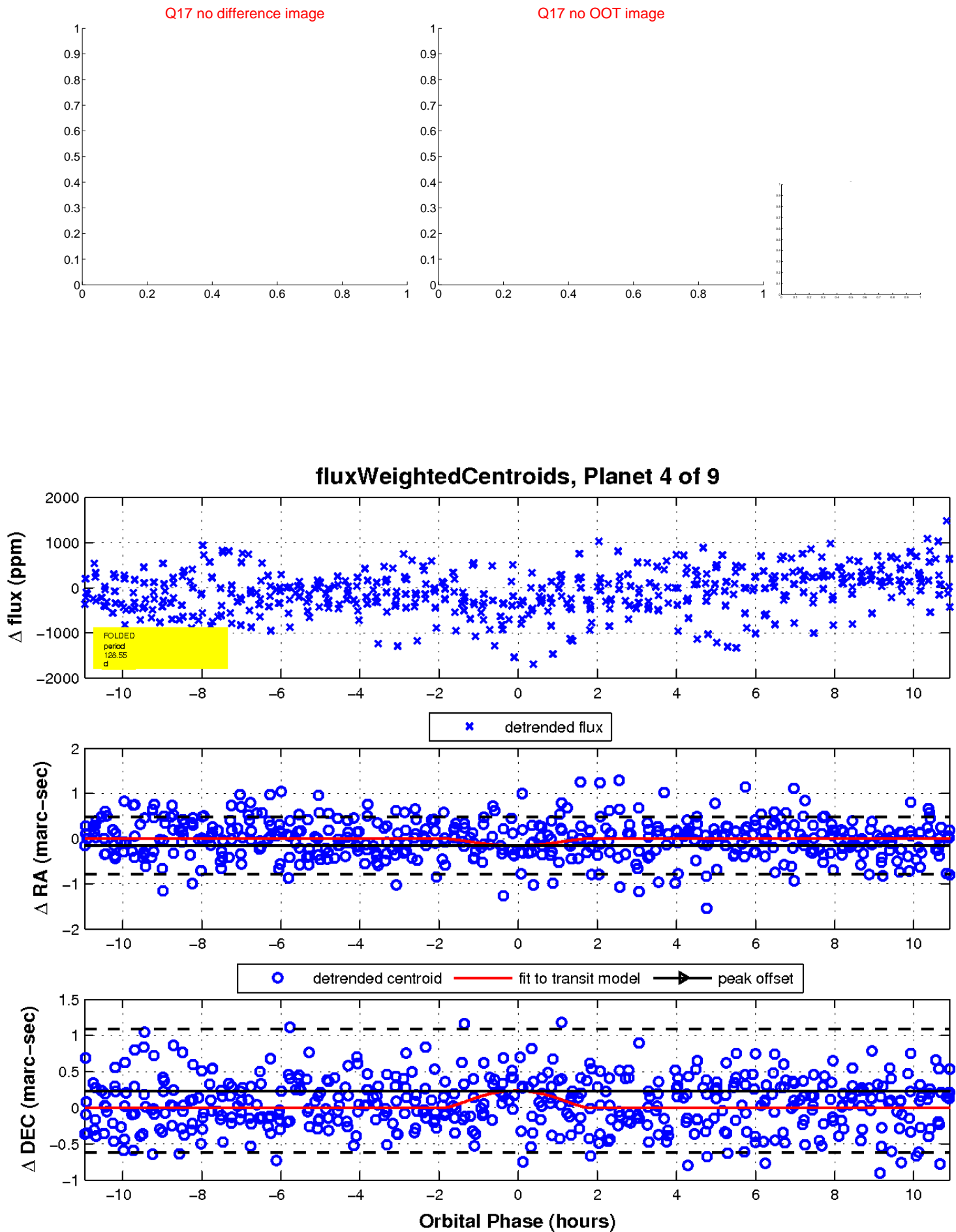
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

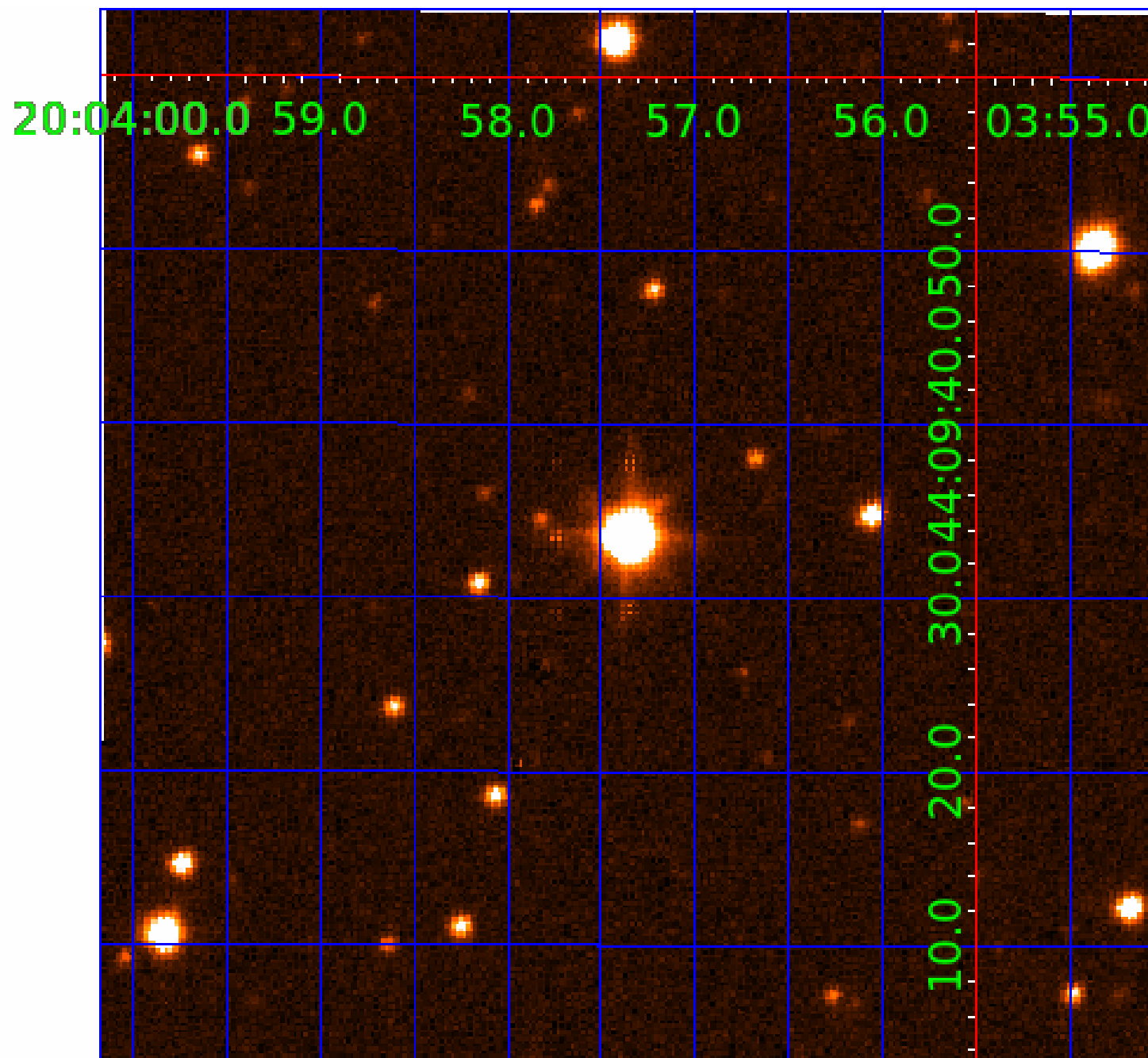


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 008264583

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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

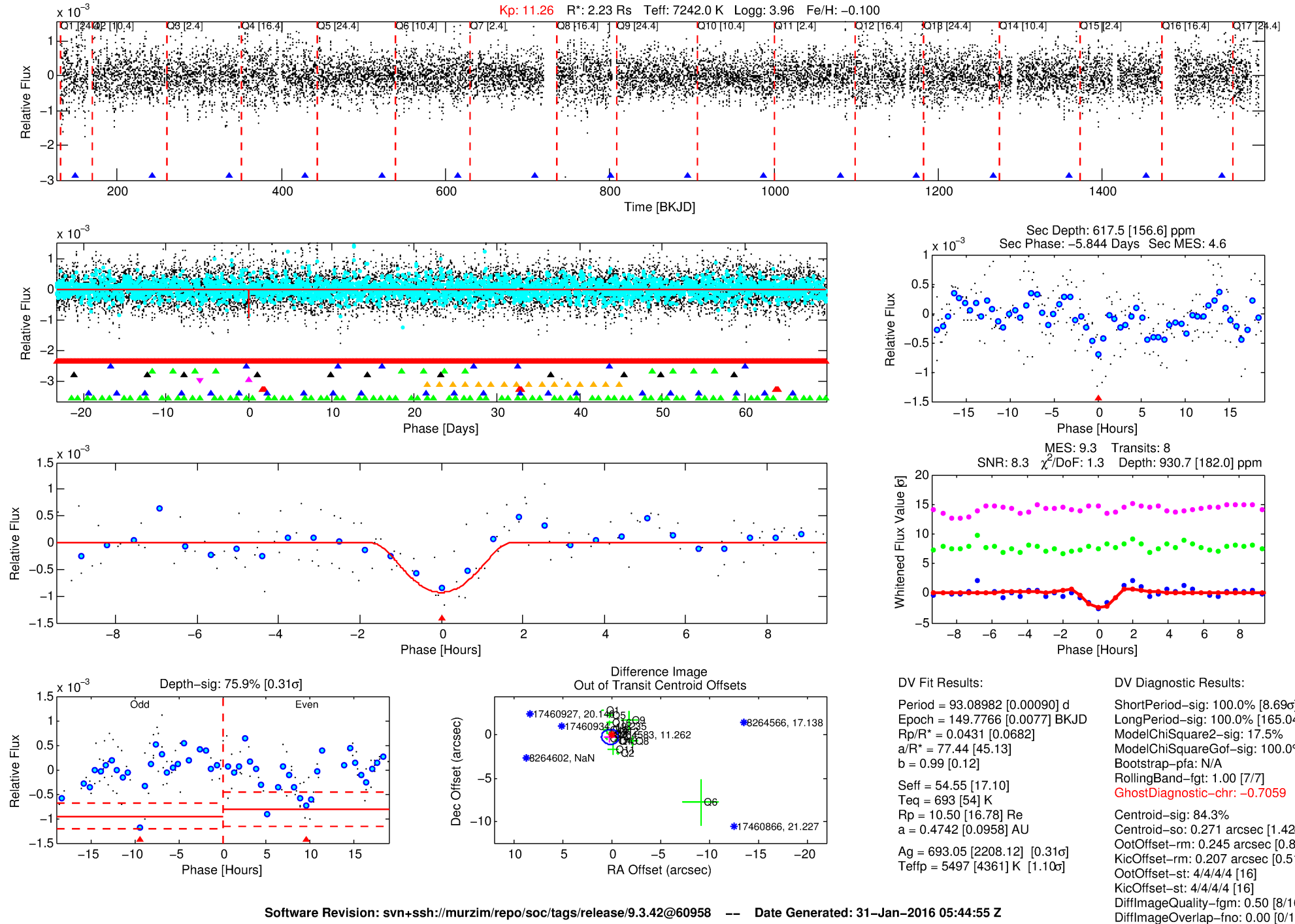
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-05

No Significant Match Found

DV One-Page Summary

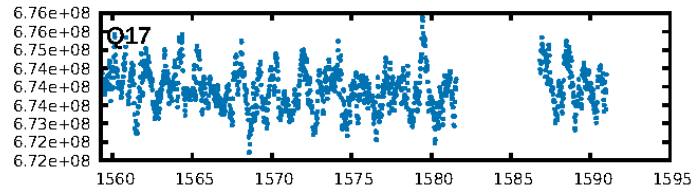
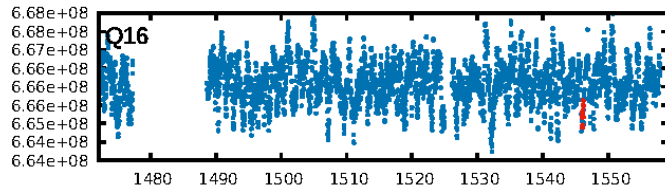
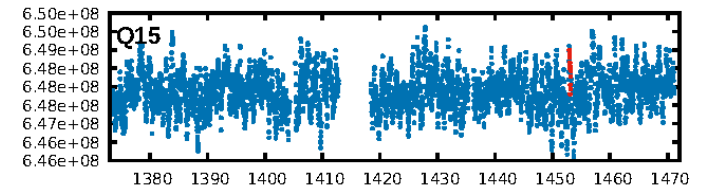
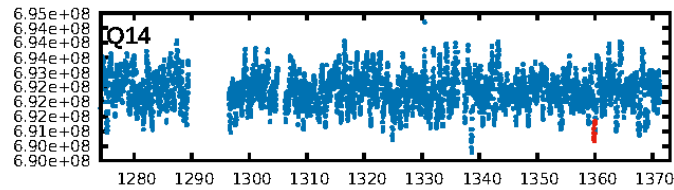
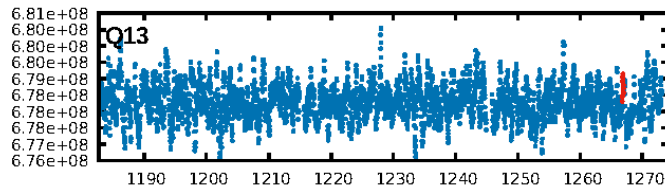
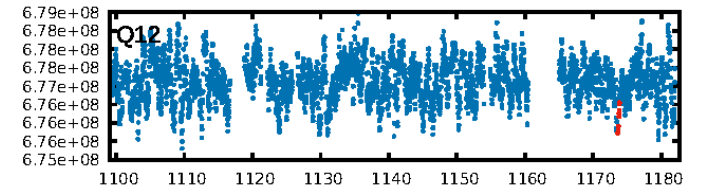
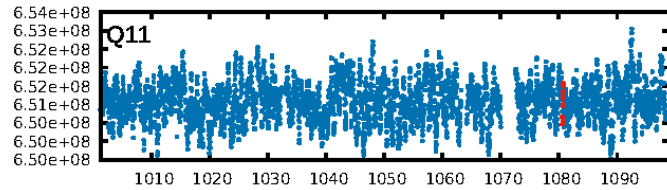
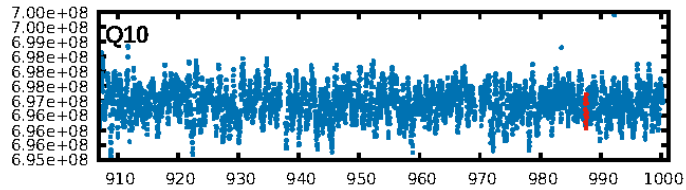
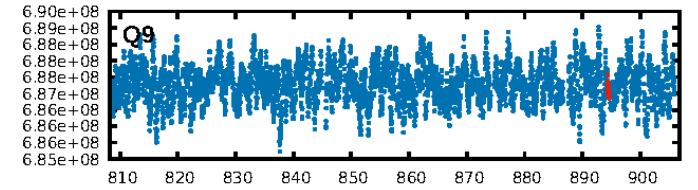
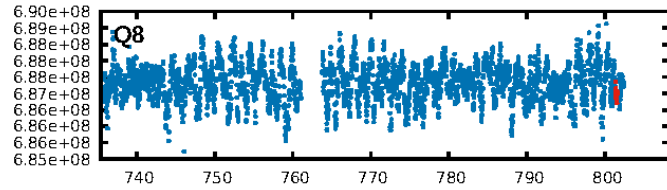
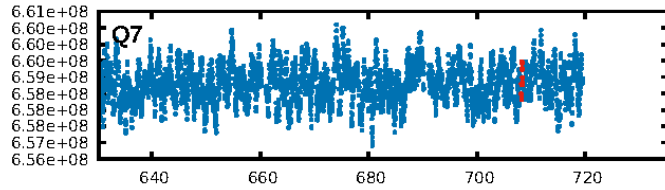
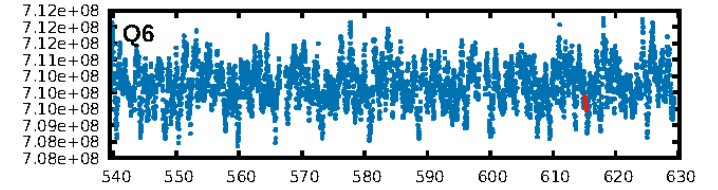
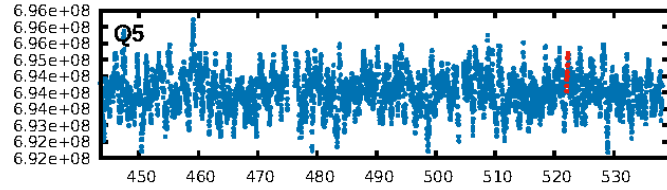
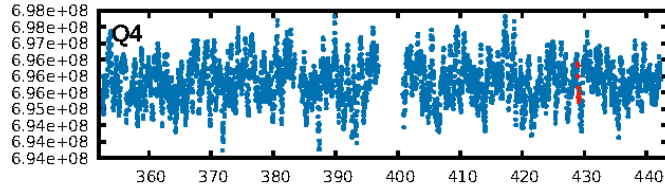
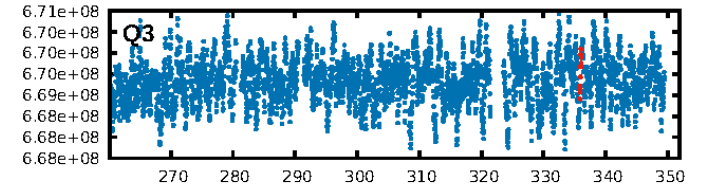
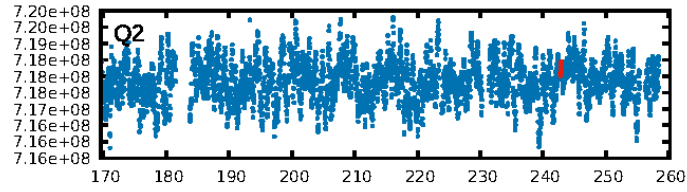
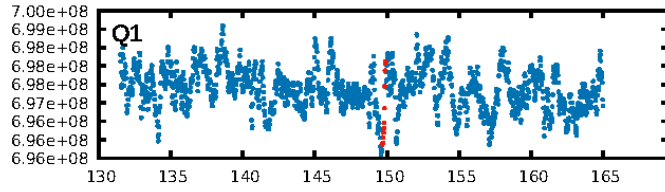
KIC: 8264583 Candidate: 5 of 9 Period: 93.090 d



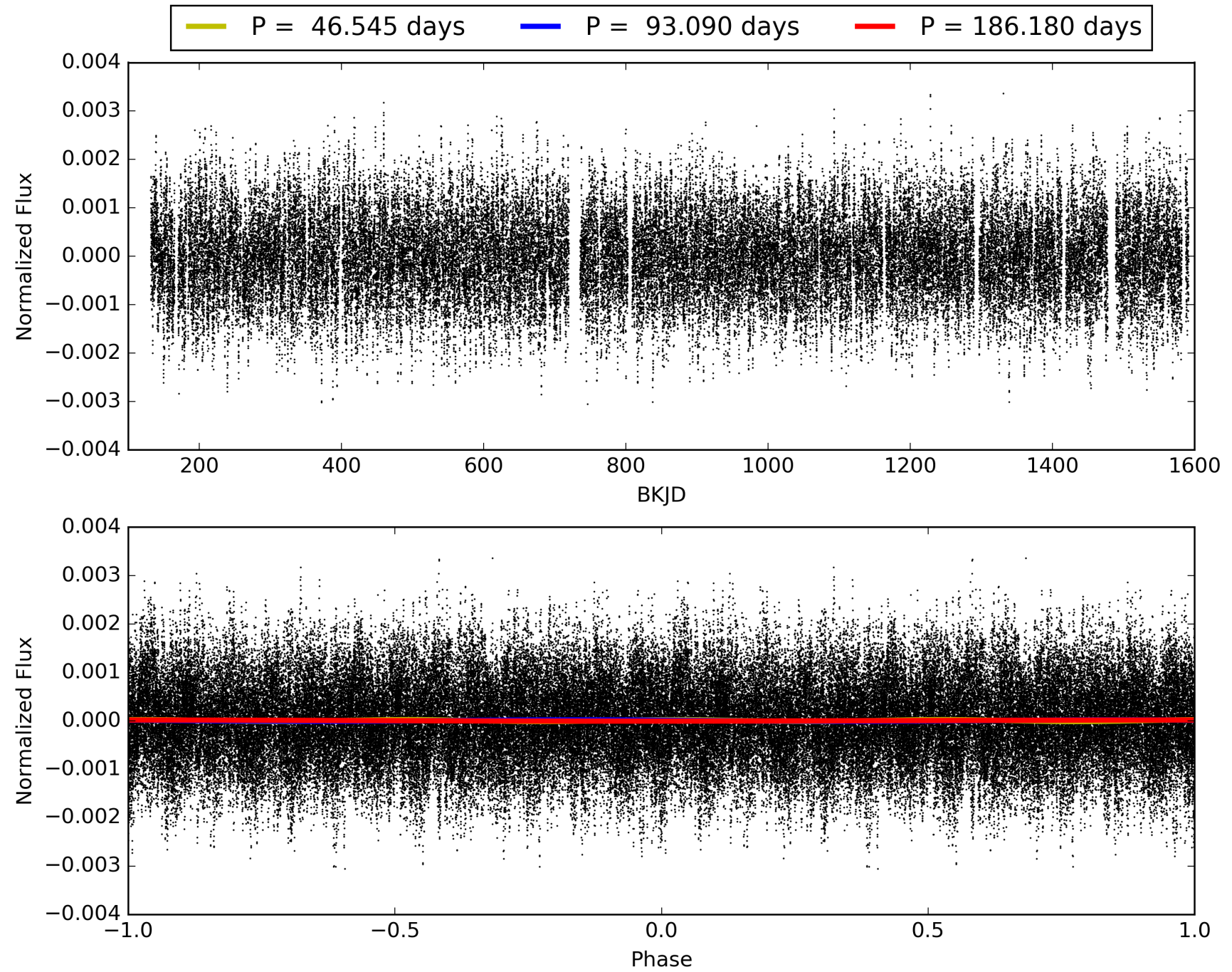
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:44:55 Z

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

TCE 008264583-05, PDC Light Curves

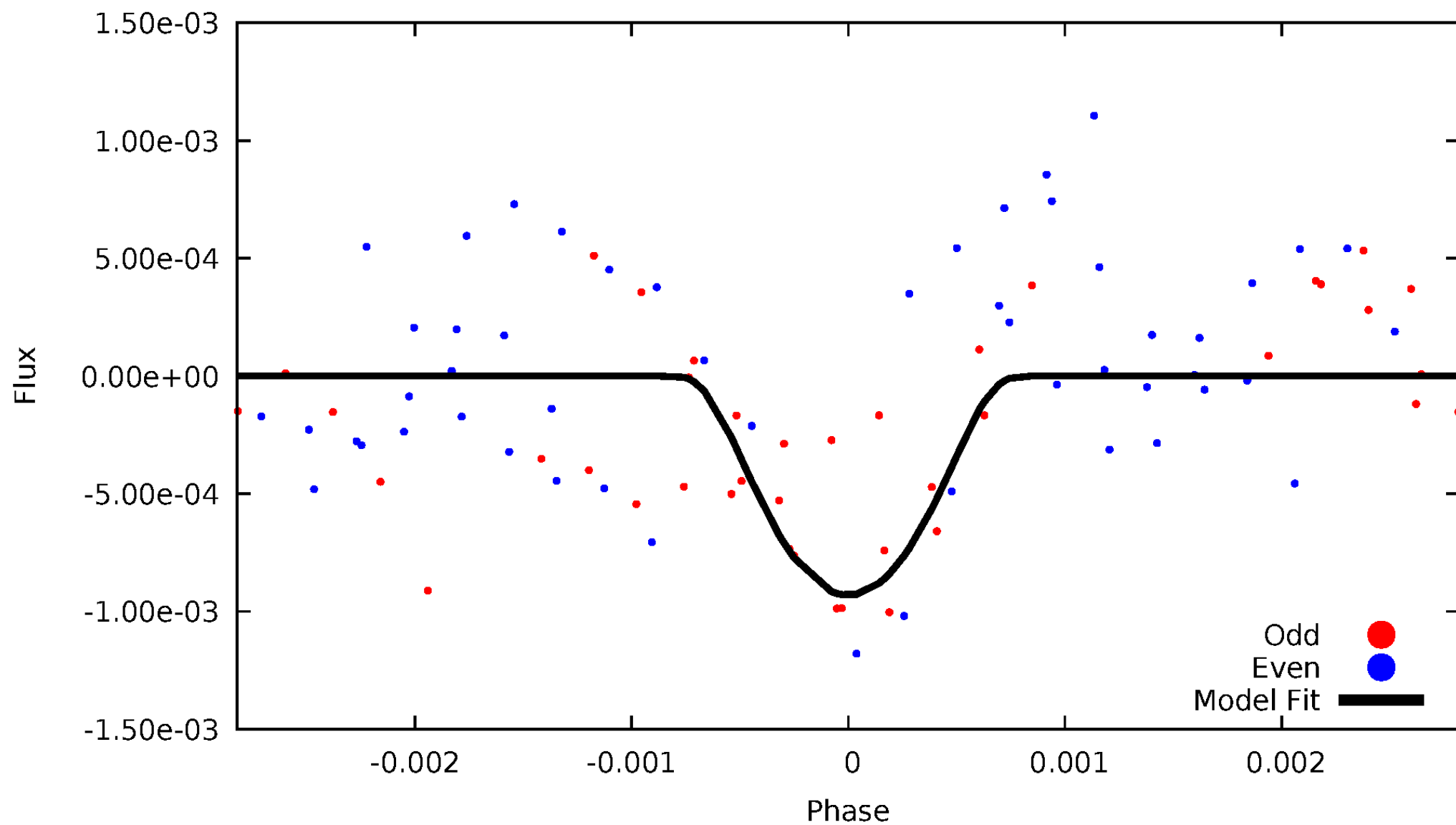


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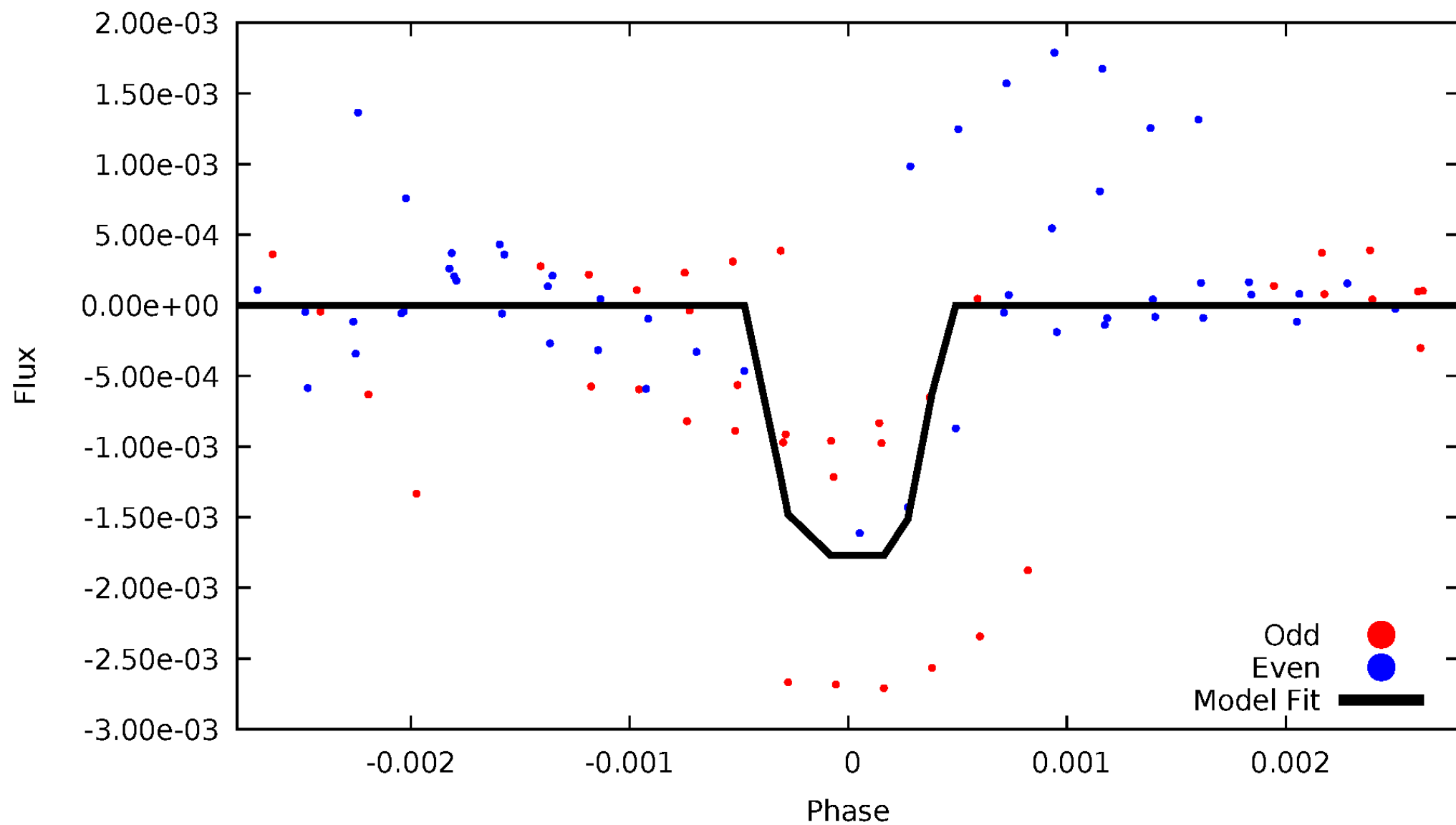
DV Odd/Even

TCE 008264583-05



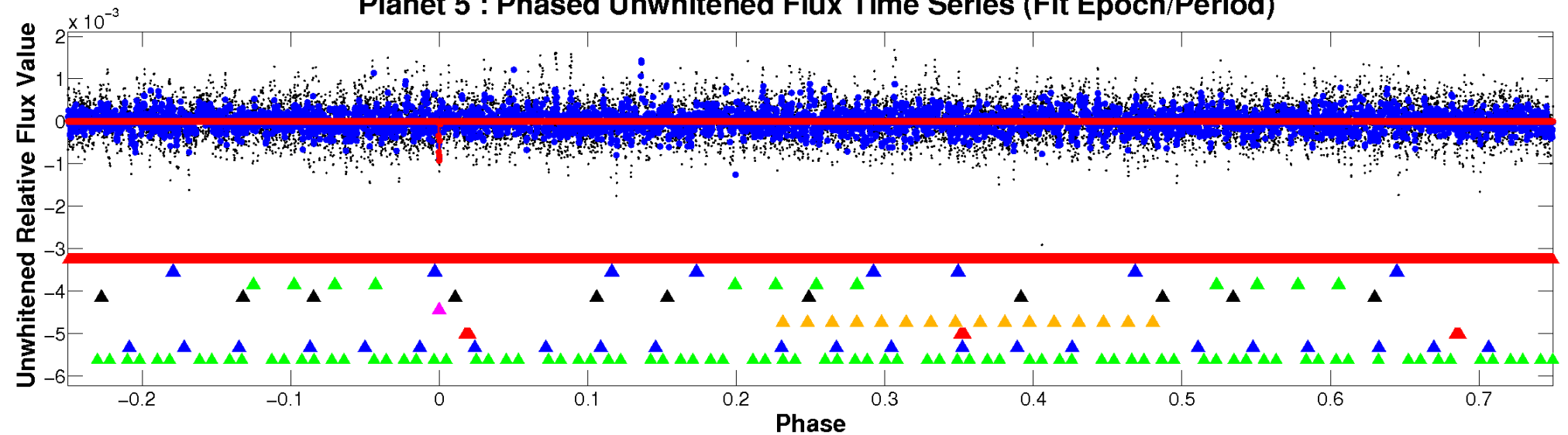
ALT Odd/Even

TCE 008264583-05

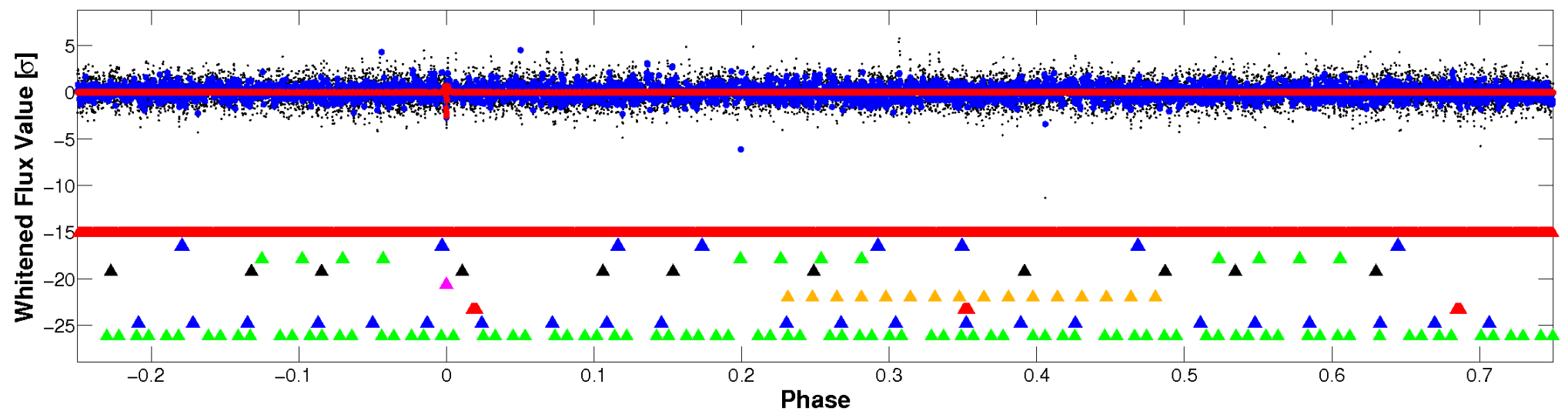


Non-Whitened Vs. Whitened Light Curve

Planet 5 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

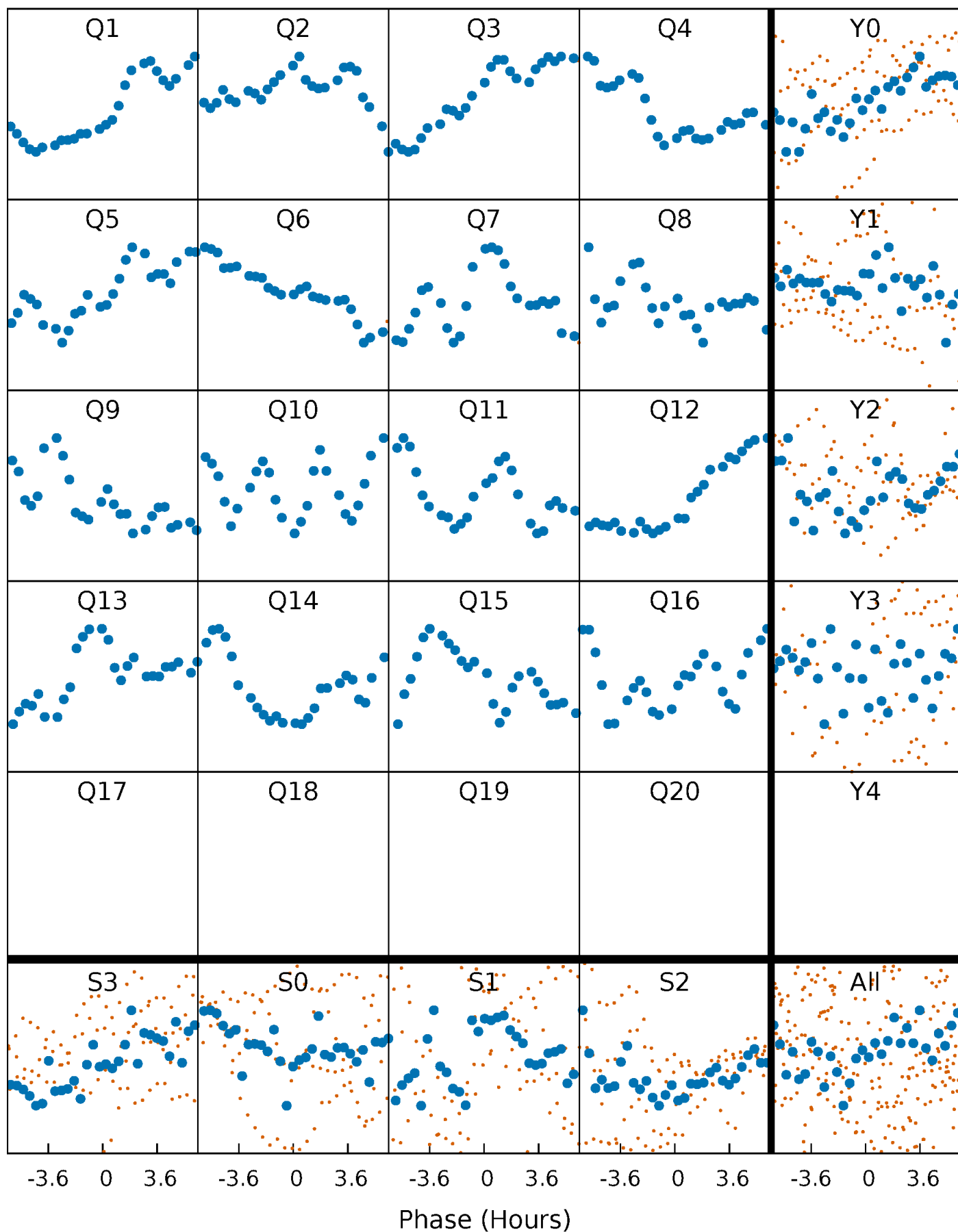


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



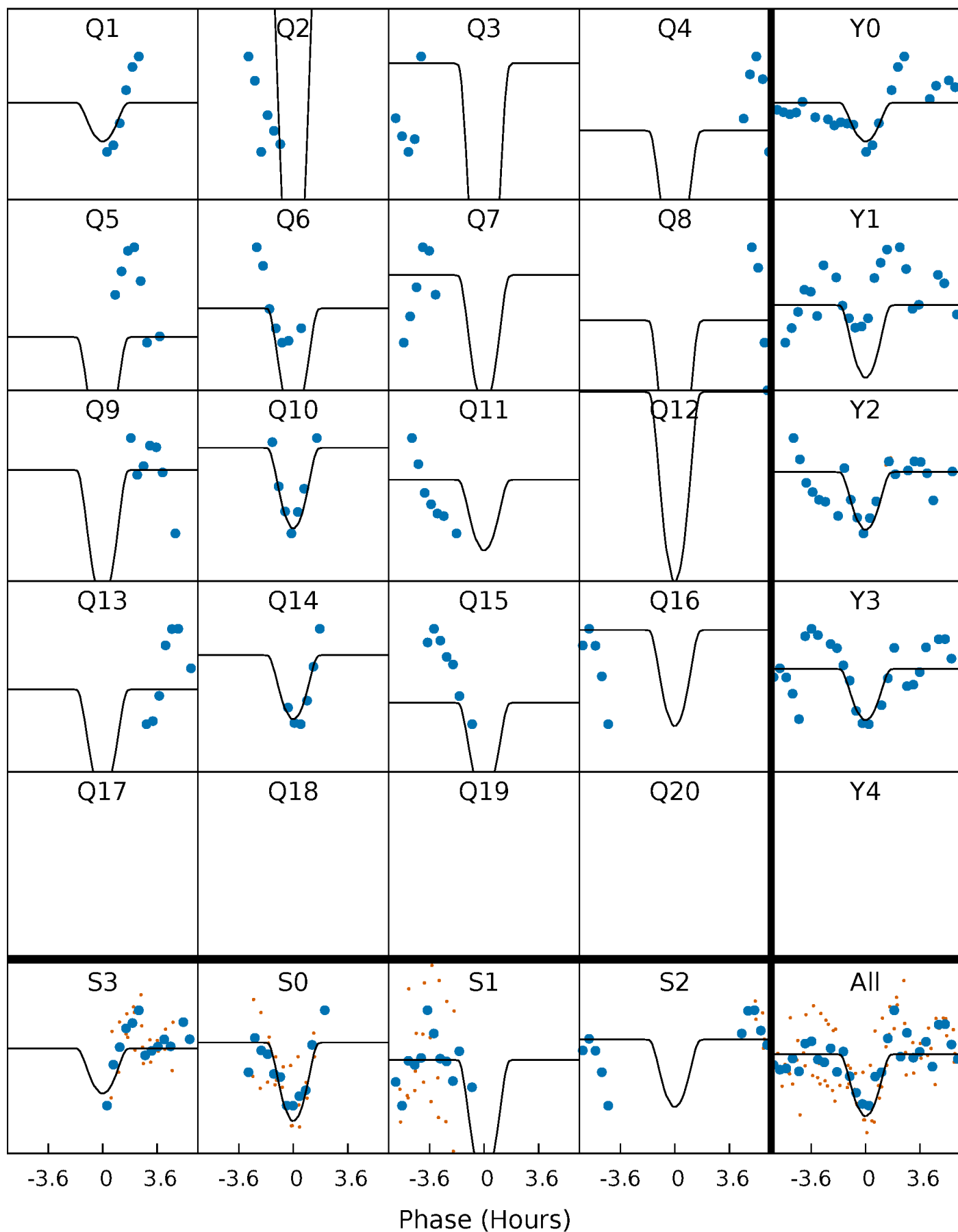
PDC Quarter-Phased Transit Curves

TCE 008264583-05 P= 93.089825 Days $T_0=149.776631$ (BKJD)



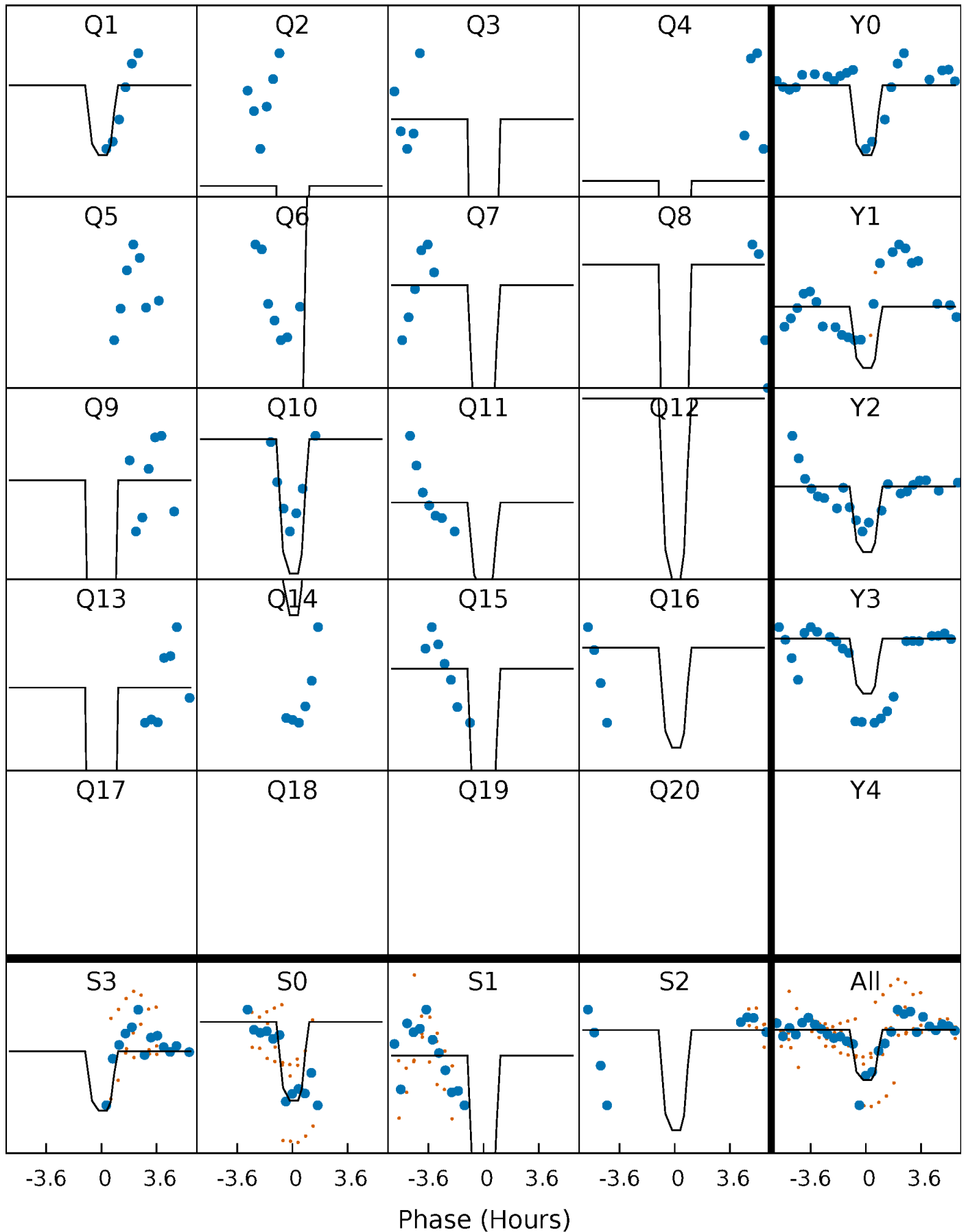
DV Quarter-Phased Transit Curves

TCE 008264583-05 P= 93.089825 Days $T_0=149.776631$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

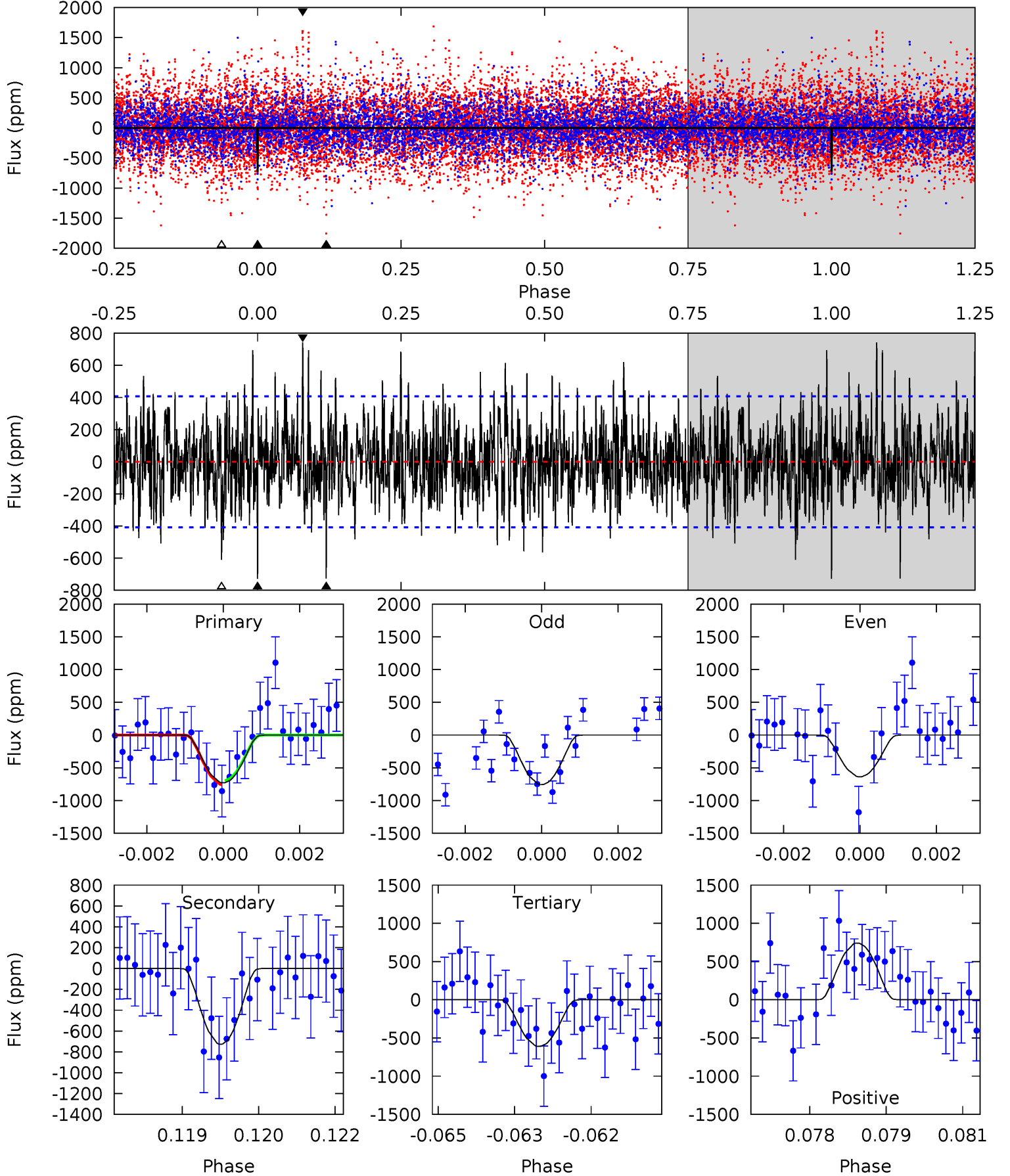
TCE 008264583-05 P= 93.090118 Days $T_0=149.775253$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-05, P = 93.089825 Days, E = 56.686806 Days

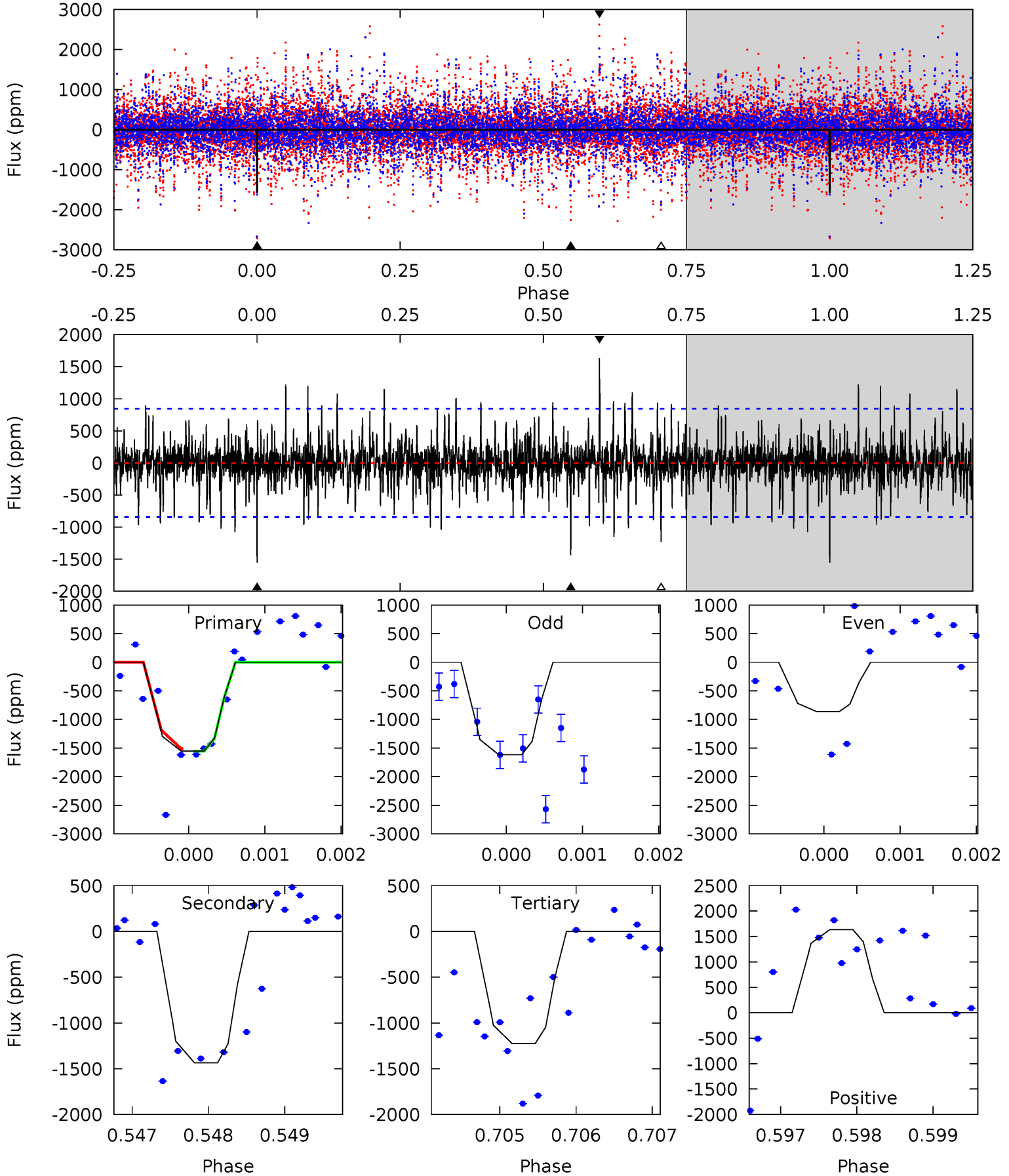
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.59	9.55	8.02	9.76	5.37	3.16	2.45	1.56	-0.18	1.52	-0.21	0.75	0.66	0.50	0.39



Alt Model-Shift Uniqueness Test

008264583-05, P = 93.090118 Days, E = 56.685135 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.1	9.34	7.97	10.6	5.49	3.35	1.75	2.12	-0.54	1.37	-1.29	2.21	1.22	0.51	0.14



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-726 ± 76	$15.73^{+14.72}_{-10.40}$	961^{+48}_{-61}	4697^{+3411}_{-992}	372^{+2970}_{-272}
Alt.	-1436 ± 154	$15.74^{+13.93}_{-10.76}$	965^{+50}_{-60}	5456^{+5015}_{-1229}	721^{+6254}_{-526}

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 $A_{obs} \gg 1.0$

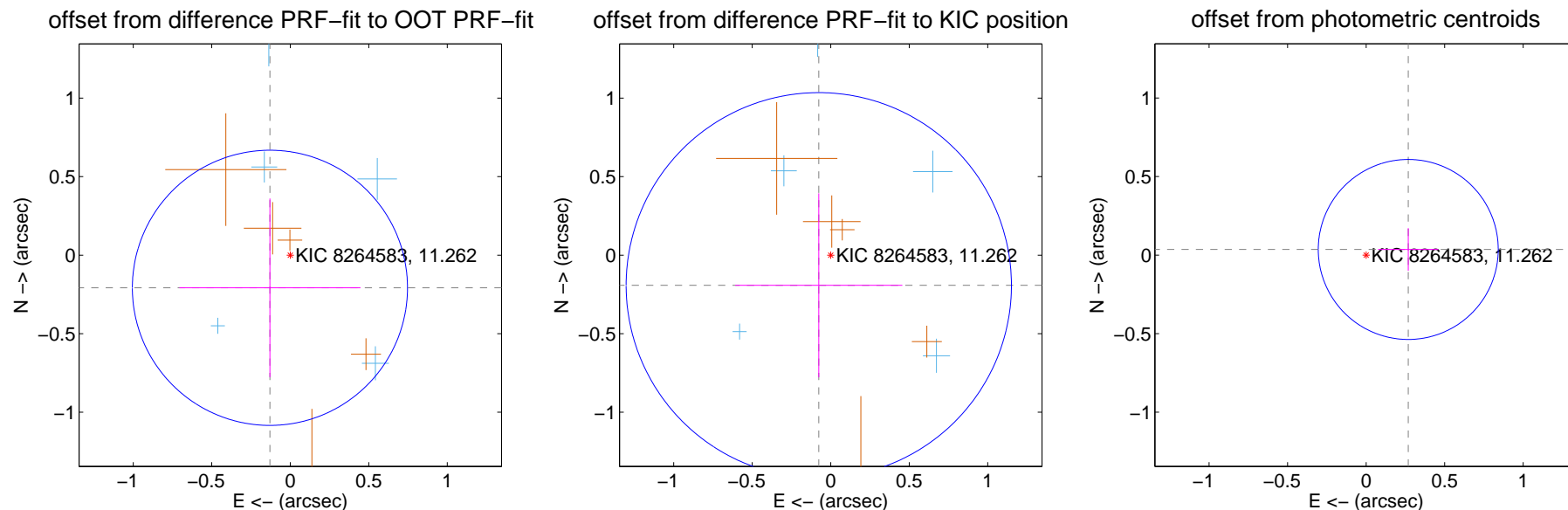
DV Centroid Data

Supplemental centroid analysis for 008264583-05. **Kepler magnitude: 11.26.** Transit SNR 8.33

There are 8 quarters with good PRF difference image offsets

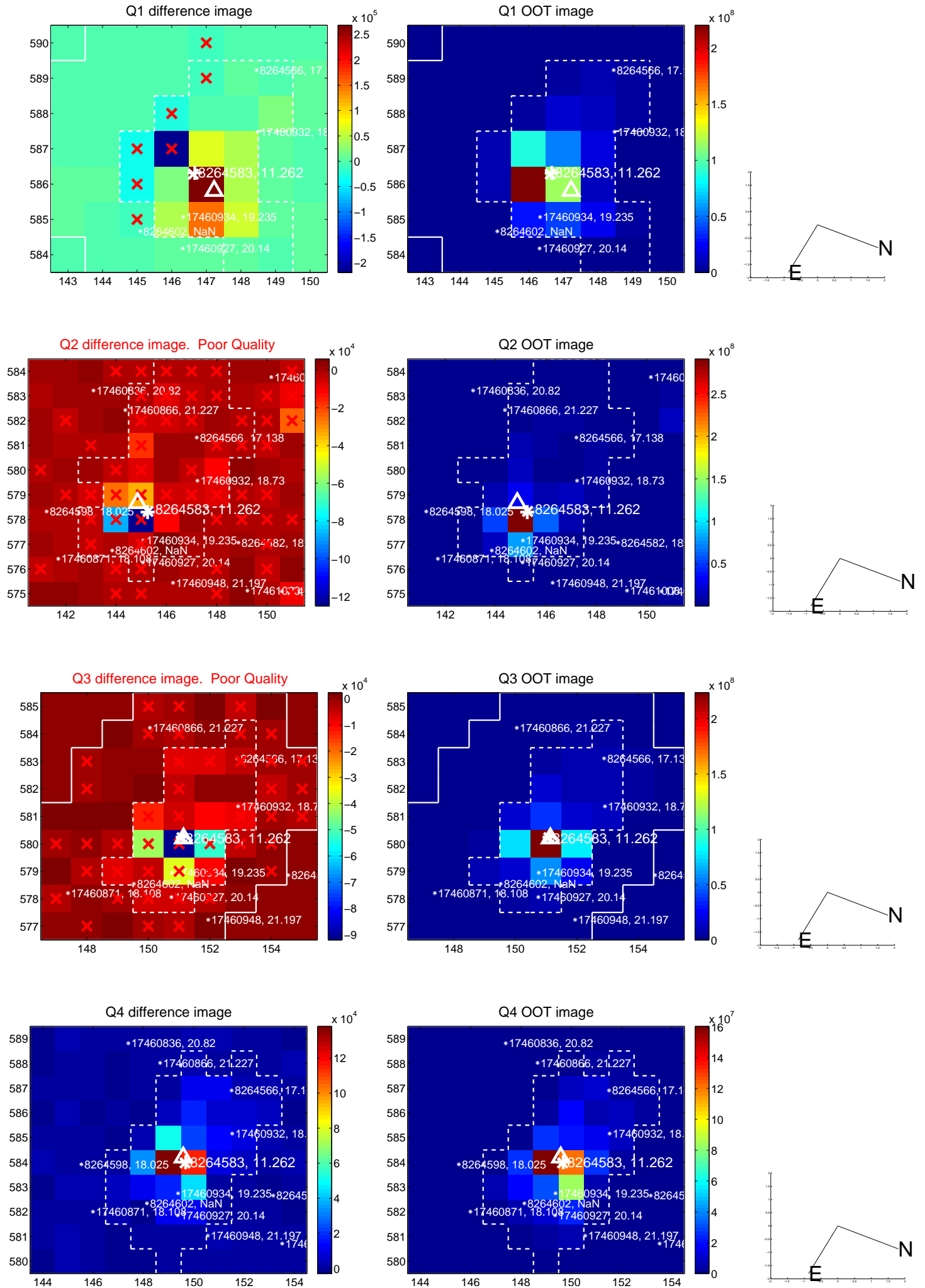
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.245 ± 0.292	0.84	0.130 ± 0.576	-0.208 ± 0.569
PRF-fit source offset from KIC position	0.207 ± 0.409	0.51	0.076 ± 0.532	-0.192 ± 0.586
photometric centroid source offset	0.27 ± 0.19	1.42	-0.27 ± 0.19	0.04 ± 0.14

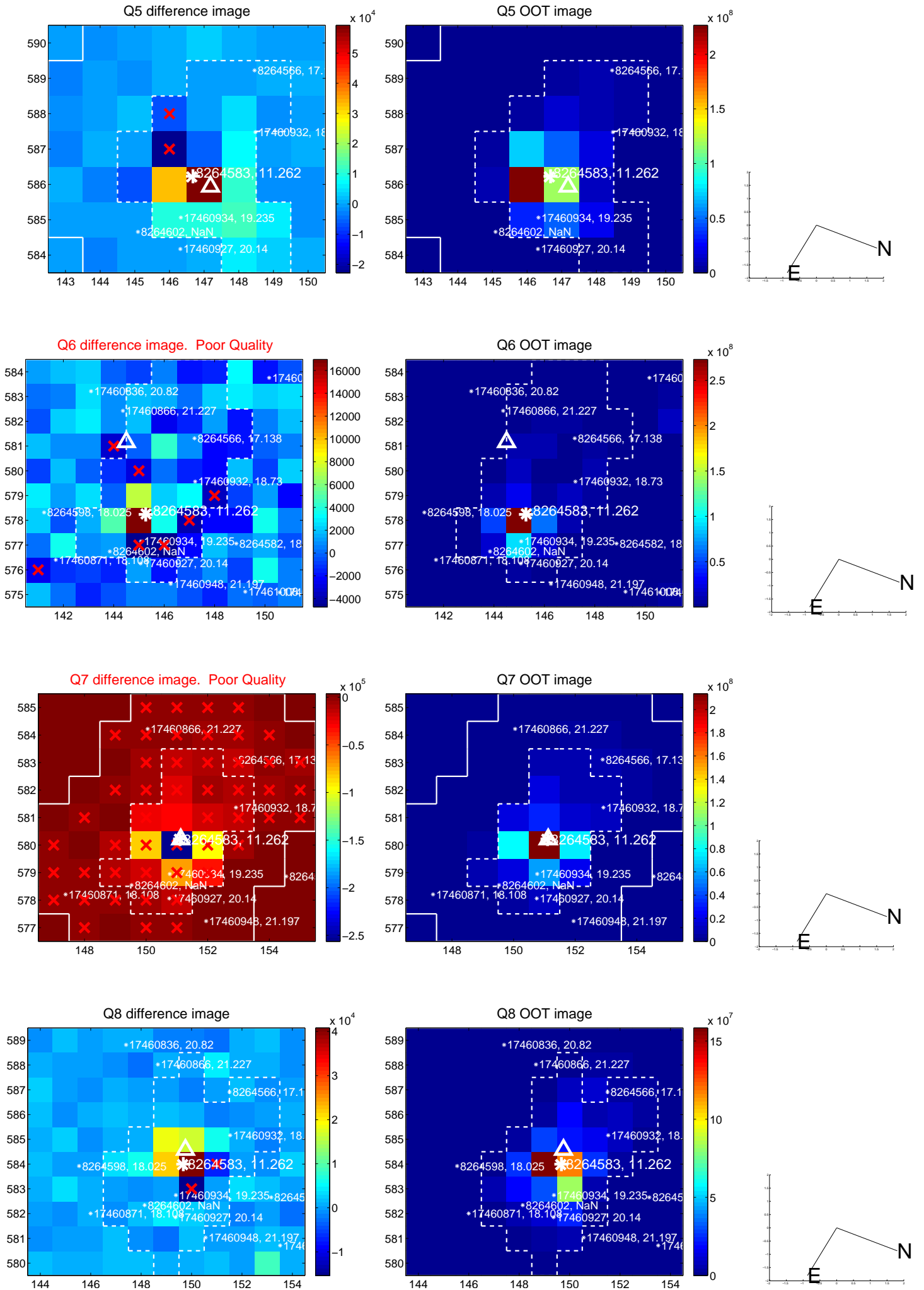


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

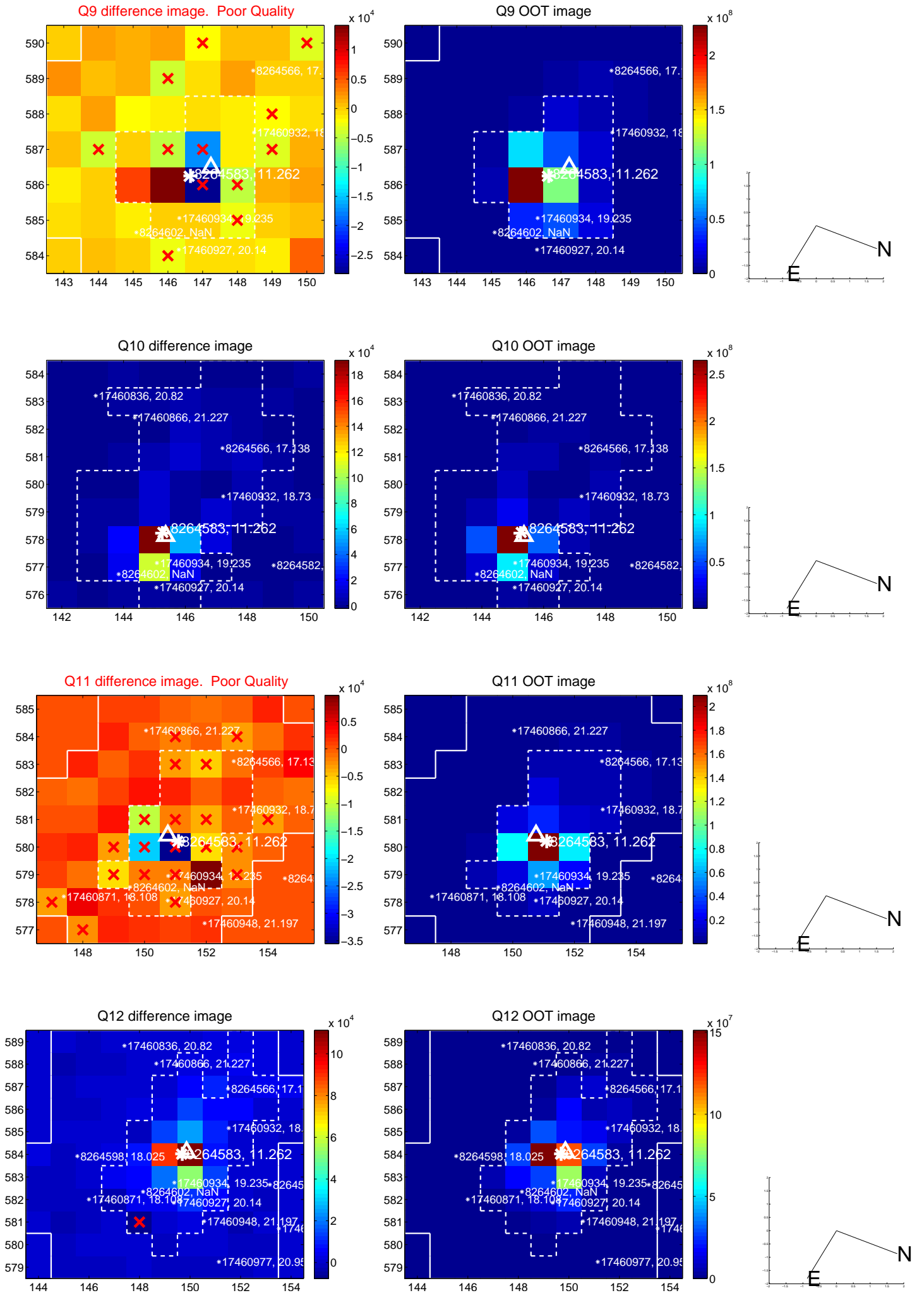
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



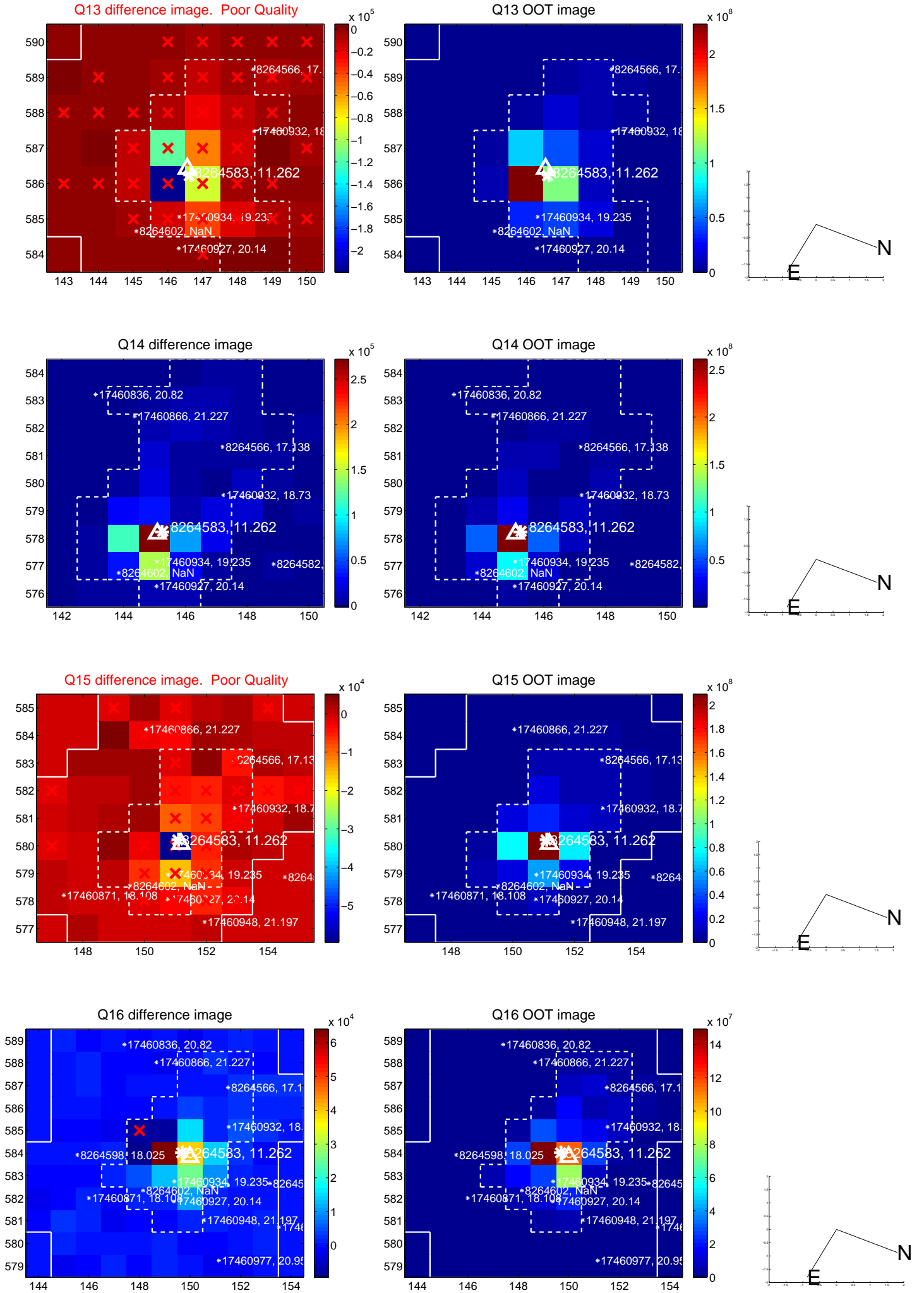
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



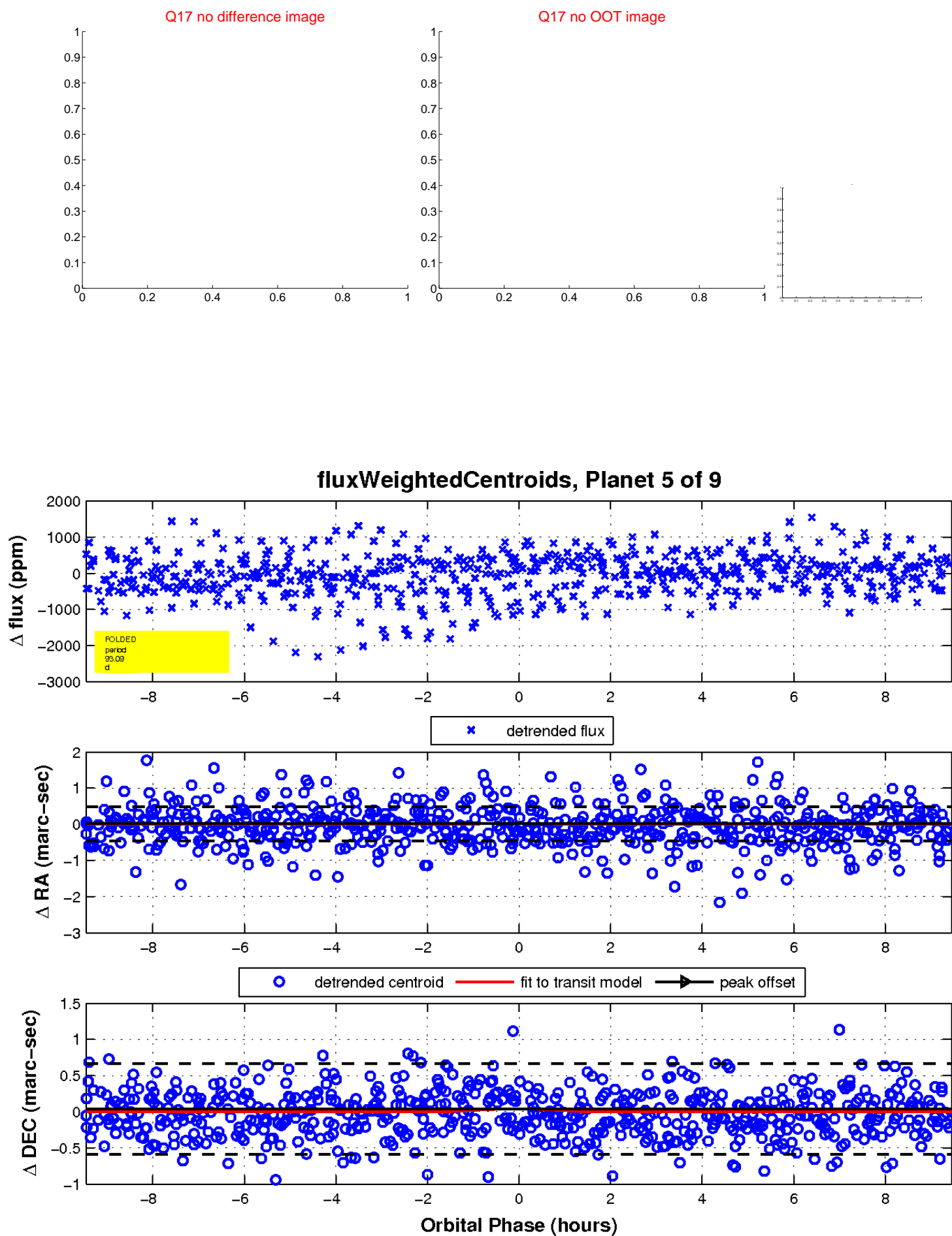
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

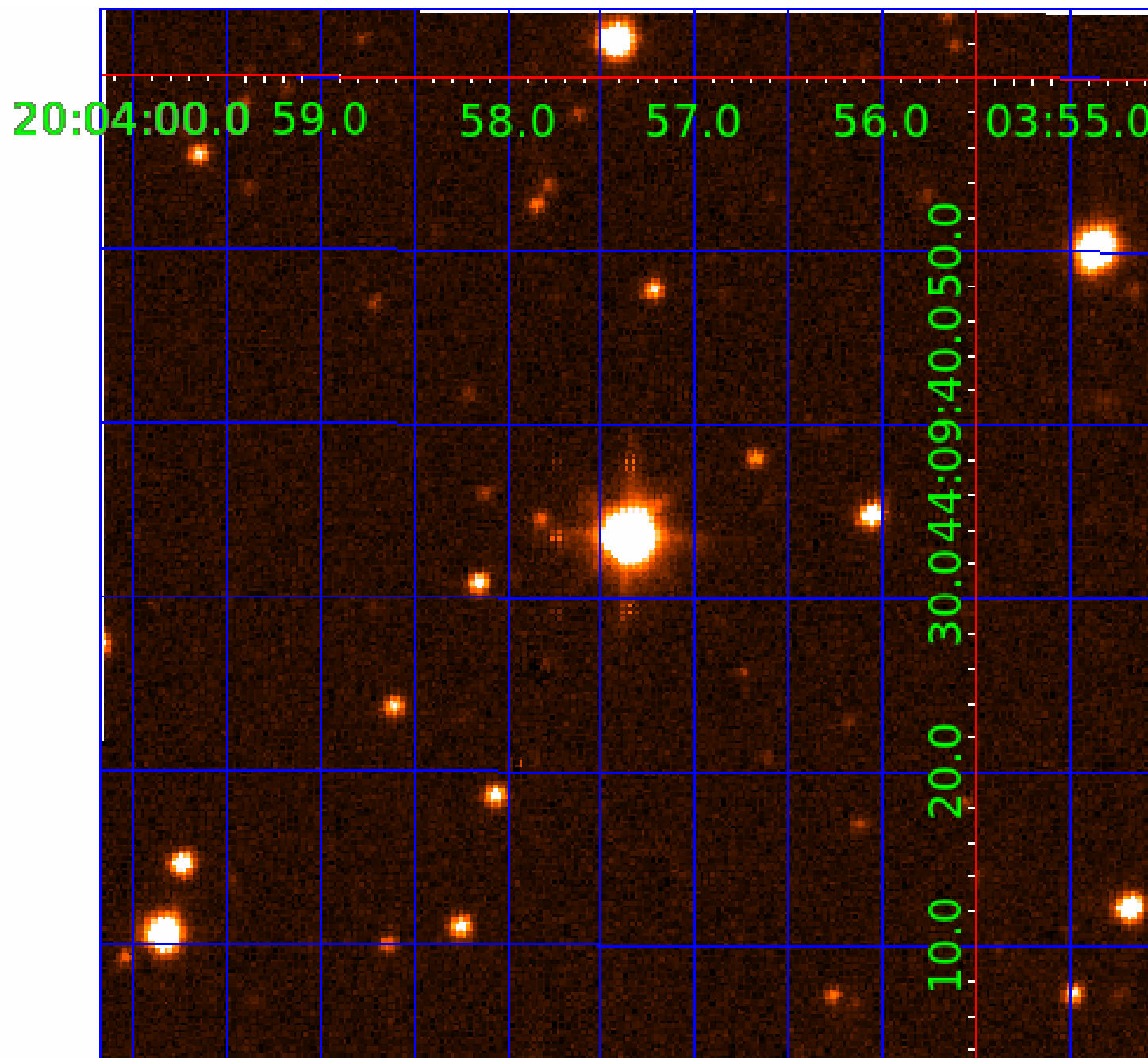


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



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})
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008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

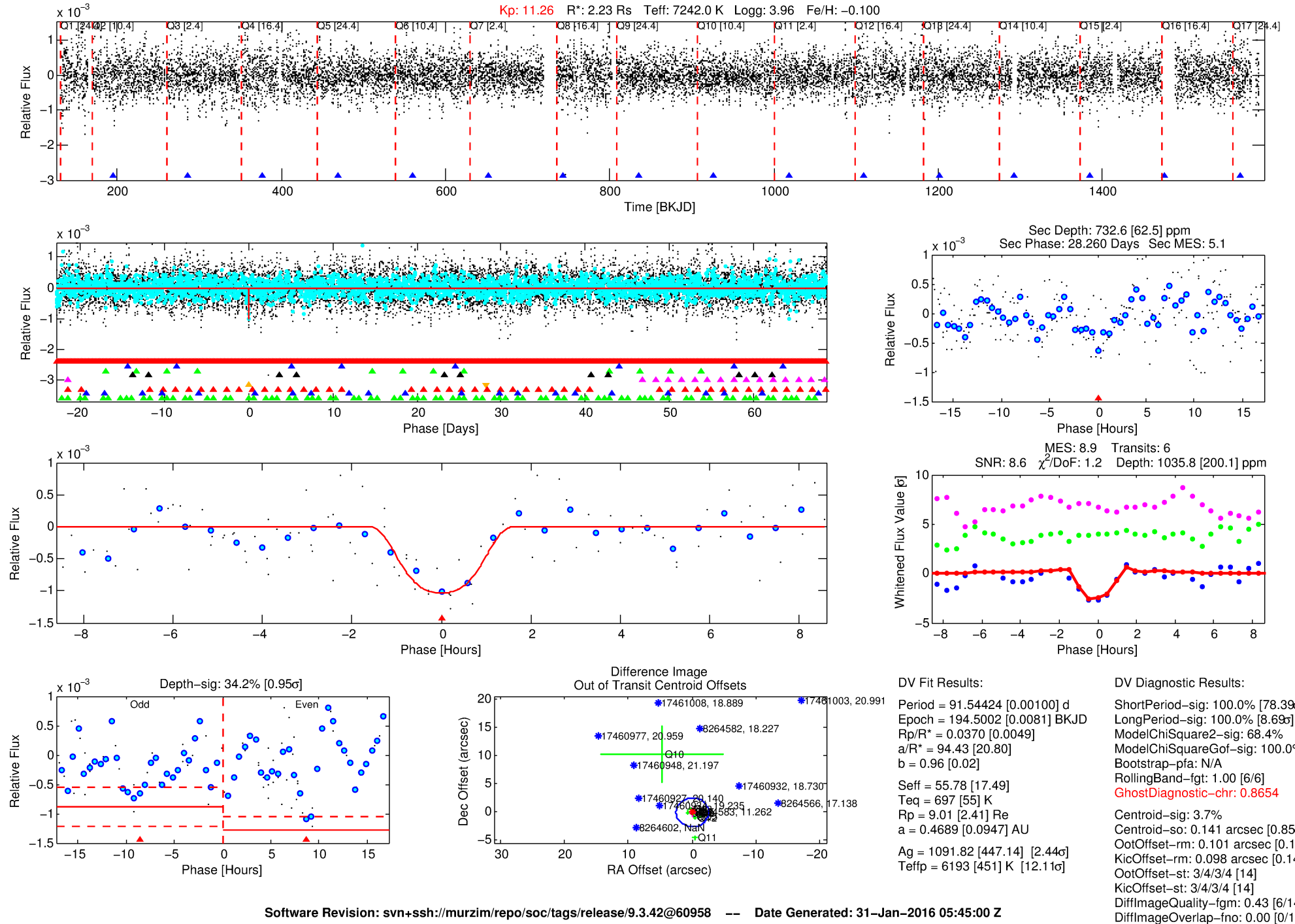
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-06

No Significant Match Found

DV One-Page Summary

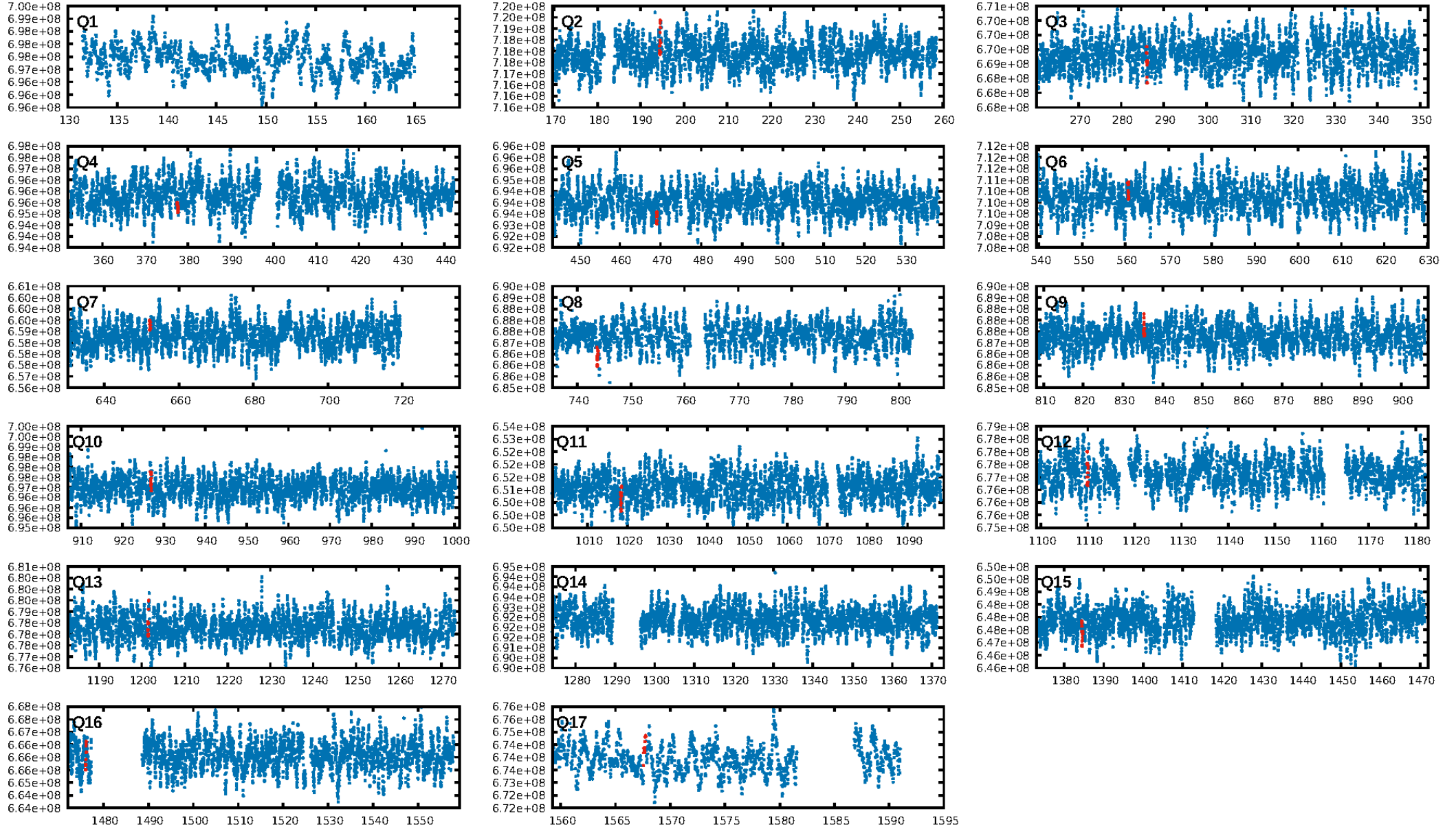
KIC: 8264583 Candidate: 6 of 9 Period: 91.544 d



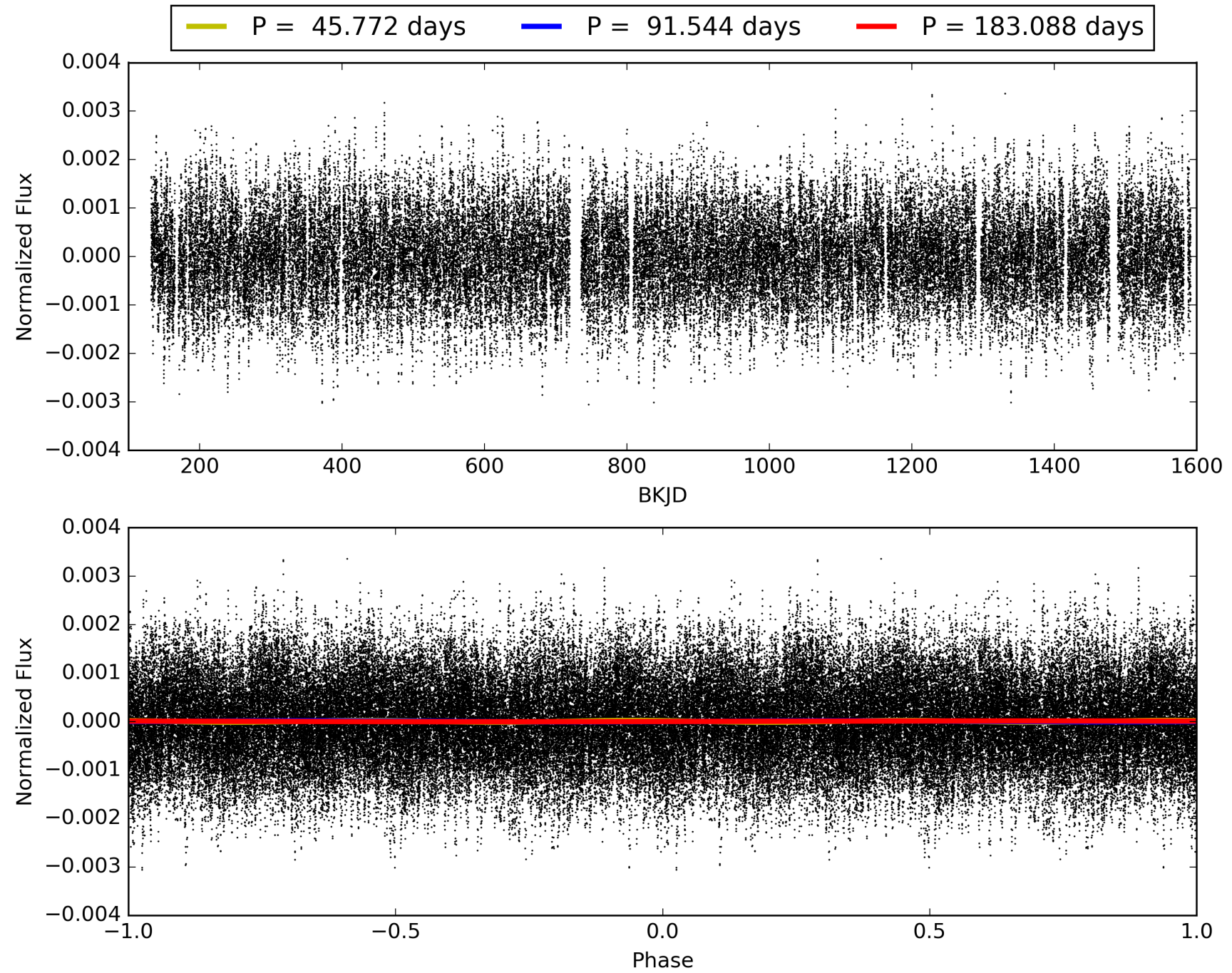
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:45:00 Z

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

TCE 008264583-06, PDC Light Curves

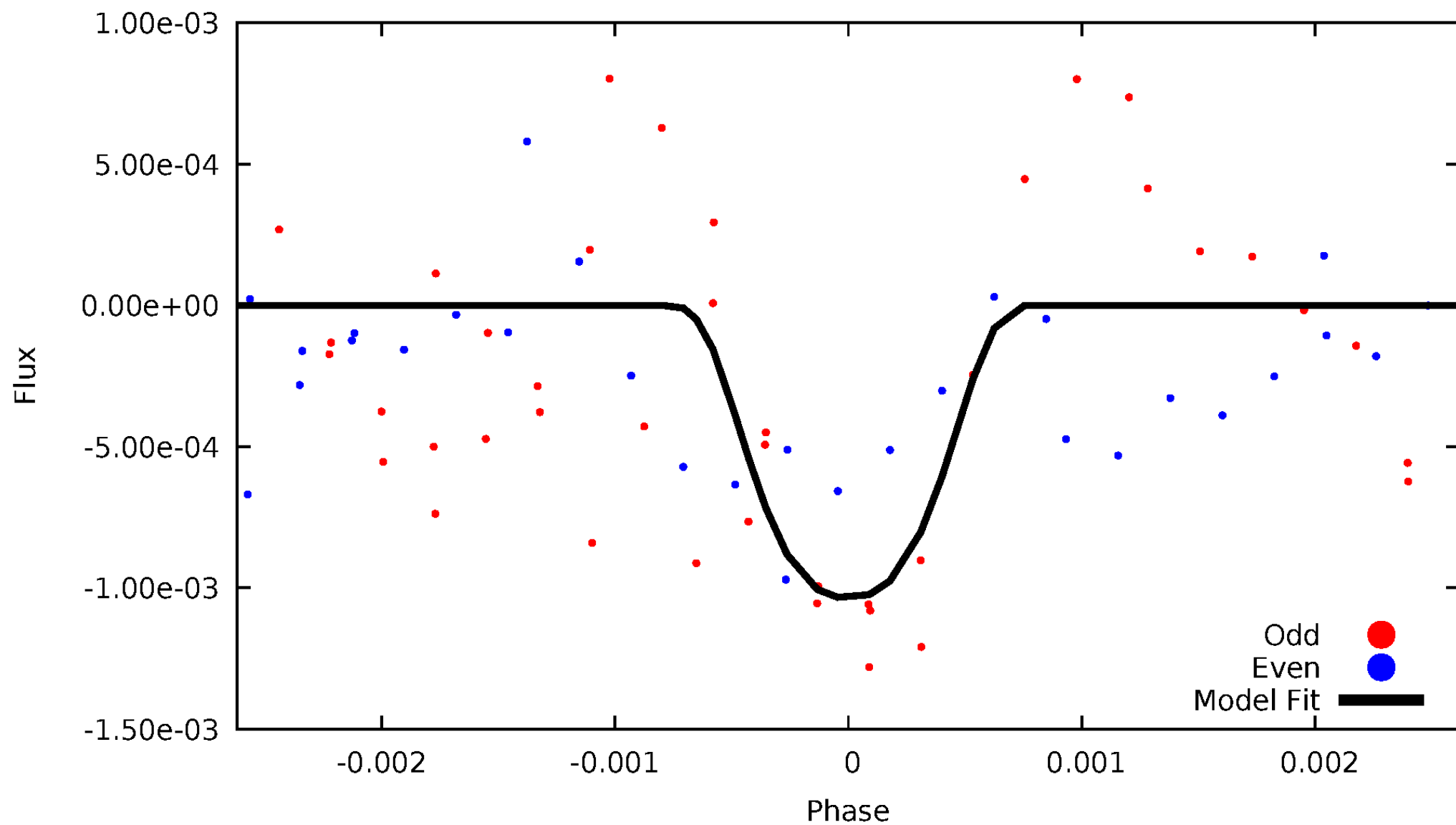


TCE 008264583-06



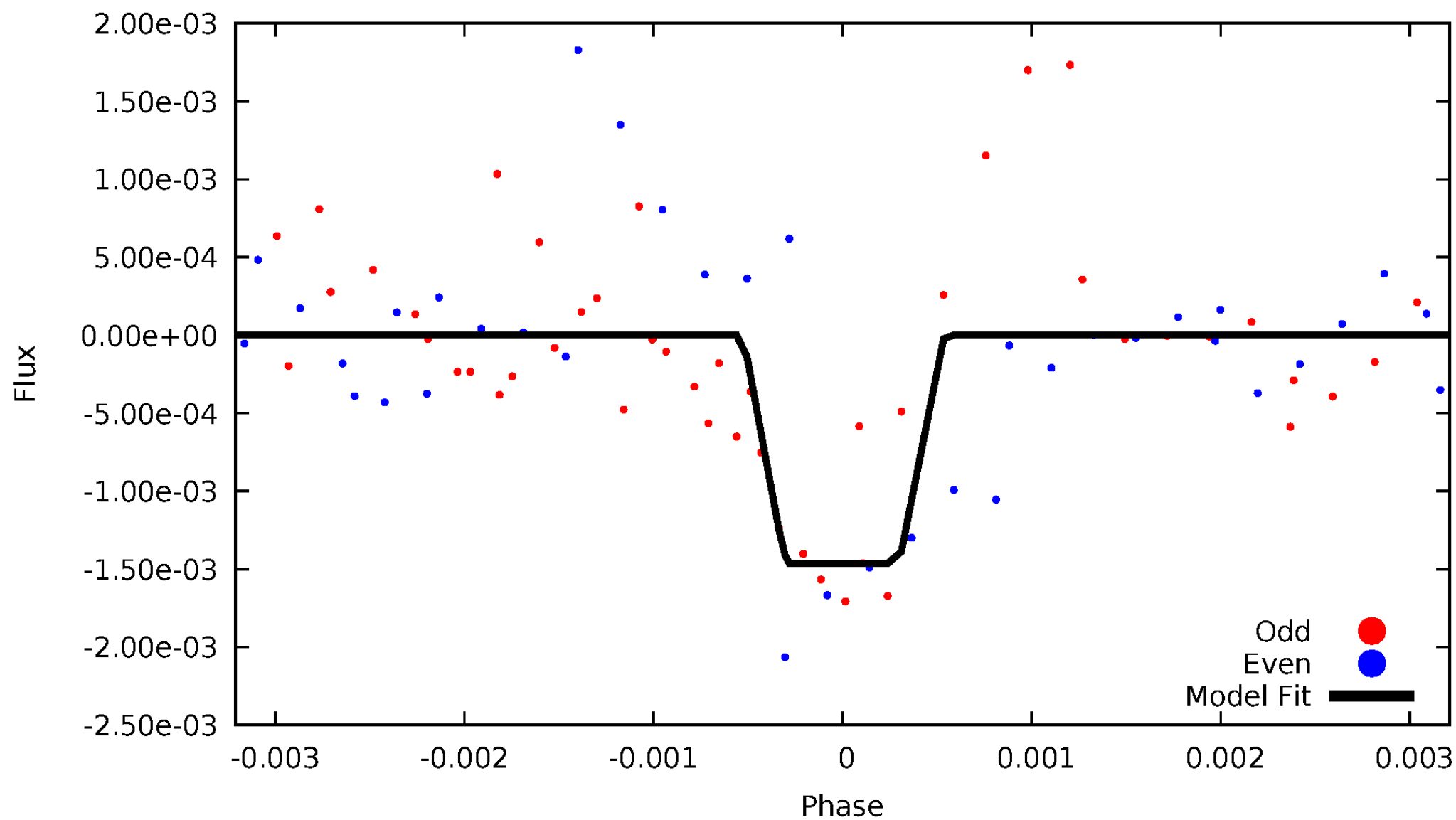
DV Odd/Even

TCE 008264583-06



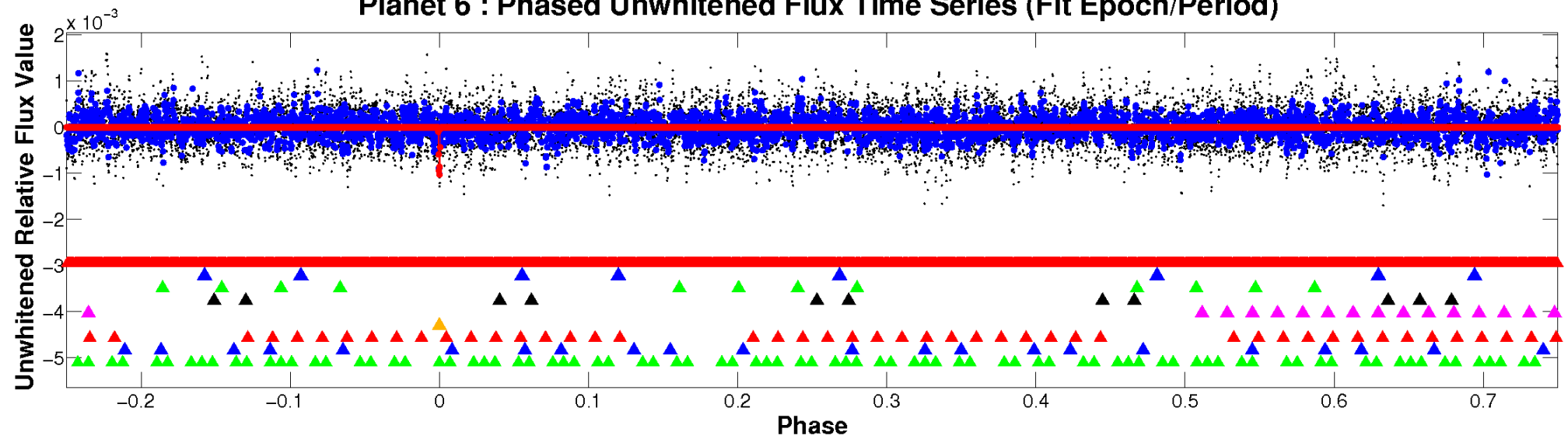
ALT Odd/Even

TCE 008264583-06

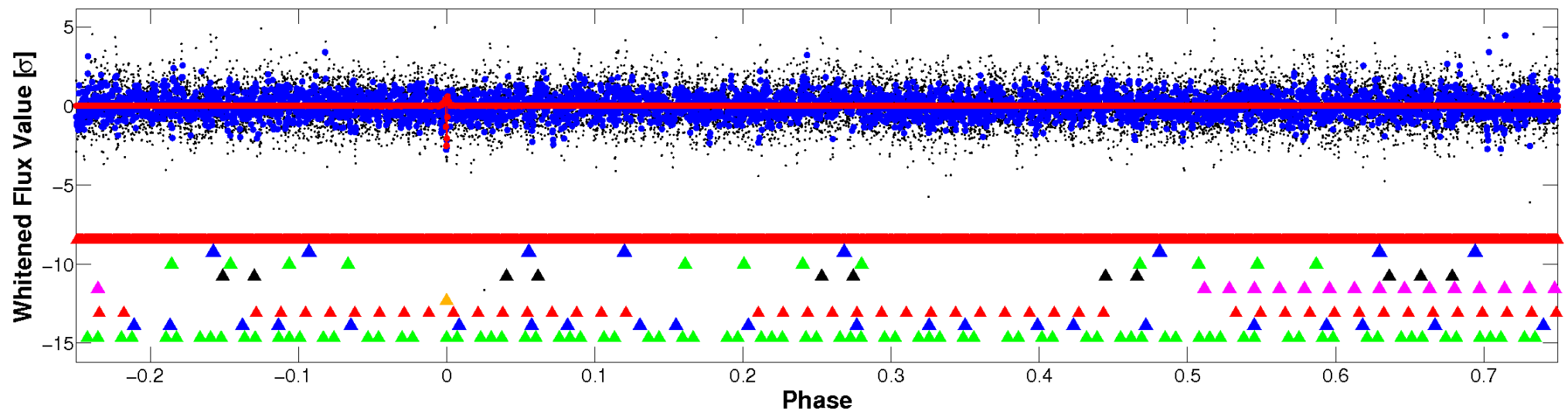


Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

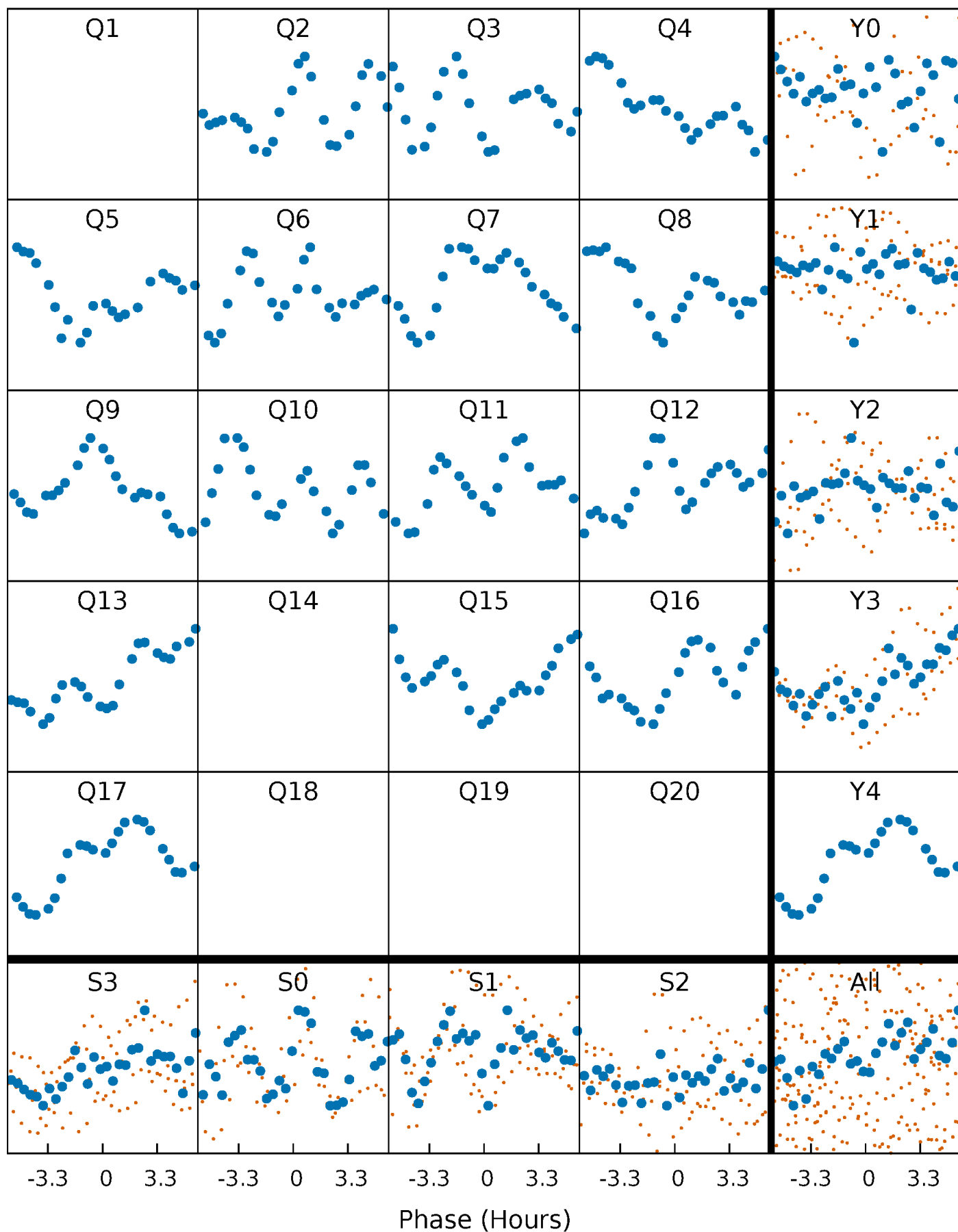


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



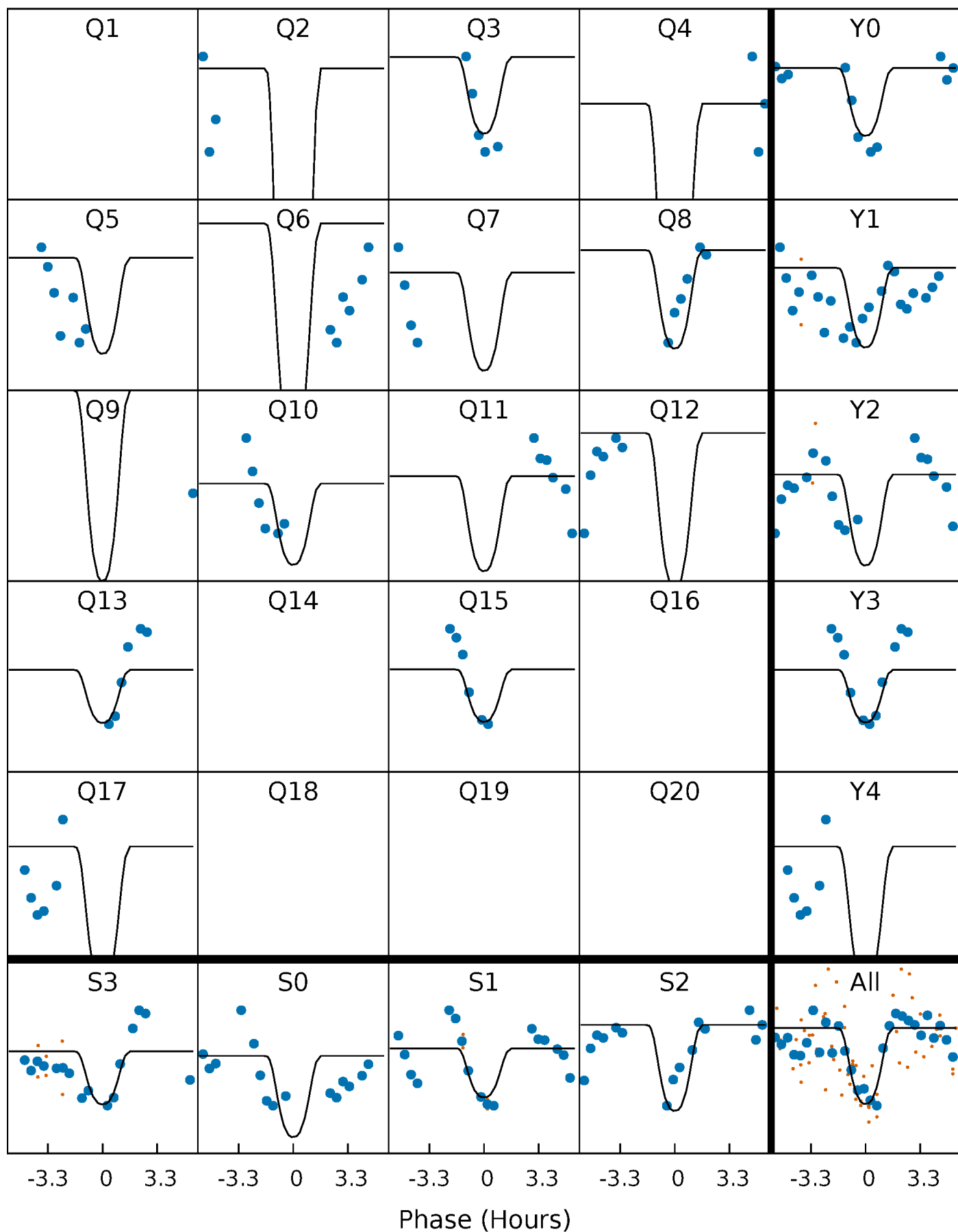
PDC Quarter-Phased Transit Curves

TCE 008264583-06 P= 91.544243 Days $T_0=194.500210$ (BKJD)



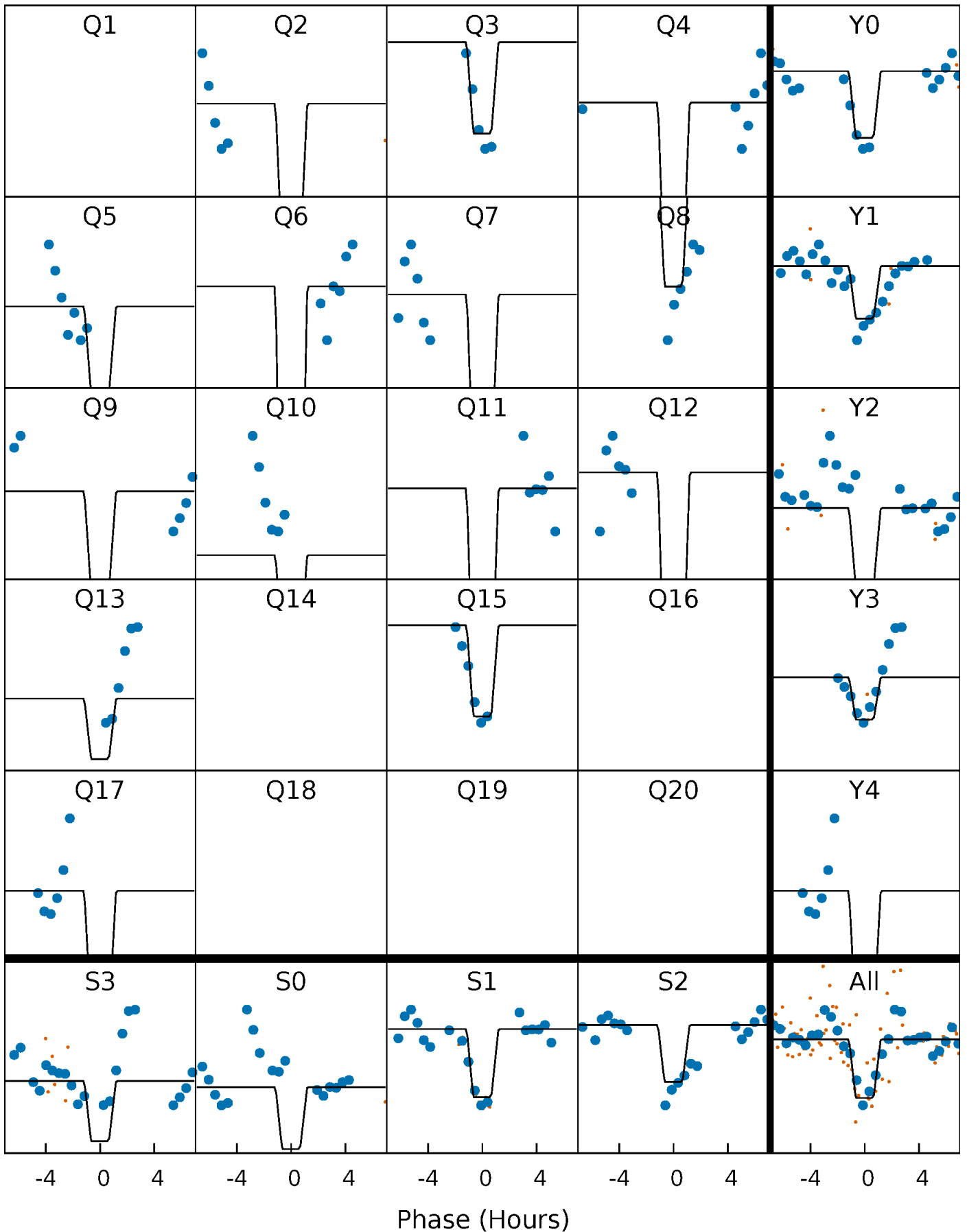
DV Quarter-Phased Transit Curves

TCE 008264583-06 P= 91.544243 Days $T_0=194.500210$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

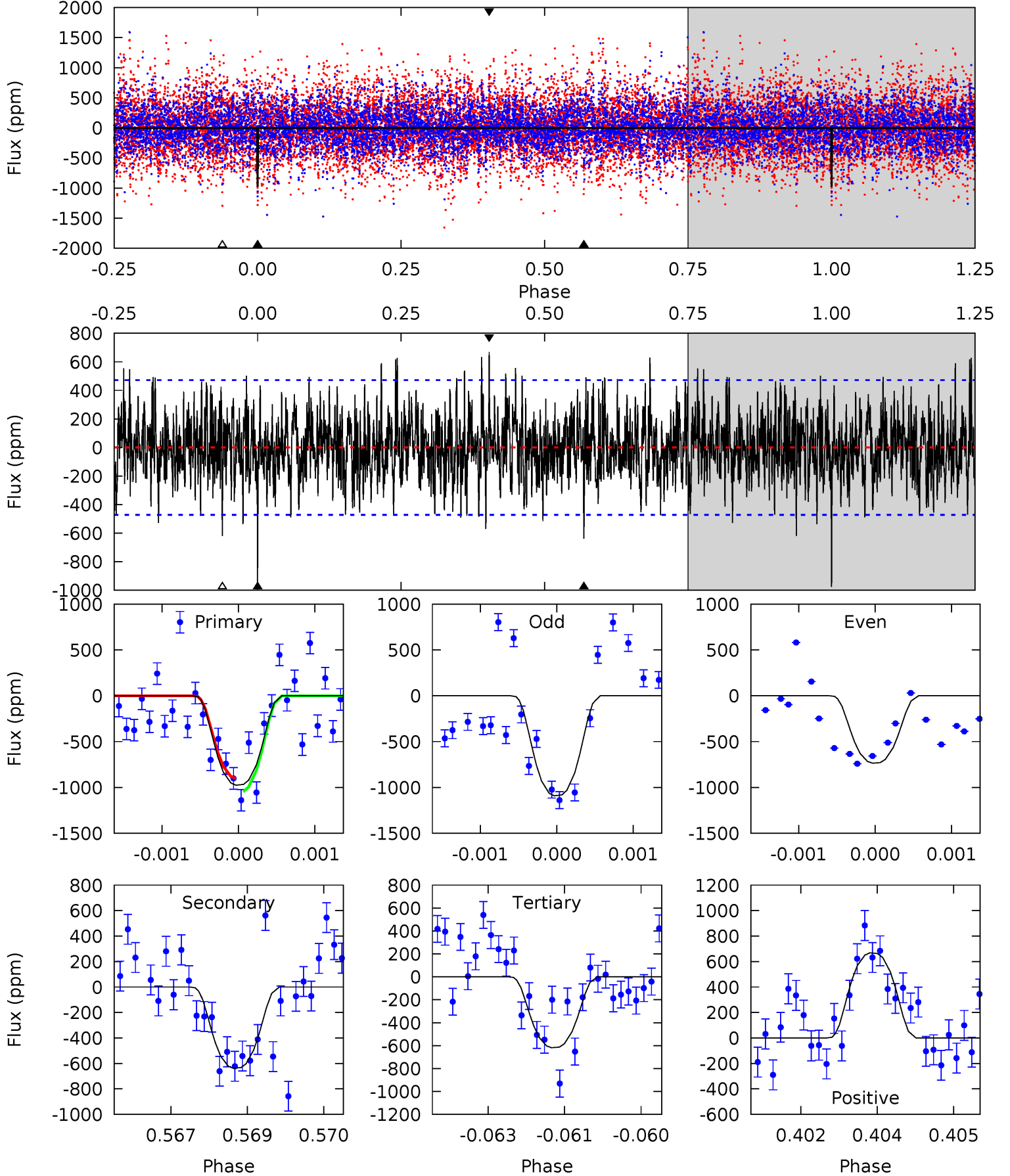
TCE 008264583-06 P= 91.543556 Days $T_0=194.507643$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-06, P = 91.544243 Days, E = 102.955967 Days

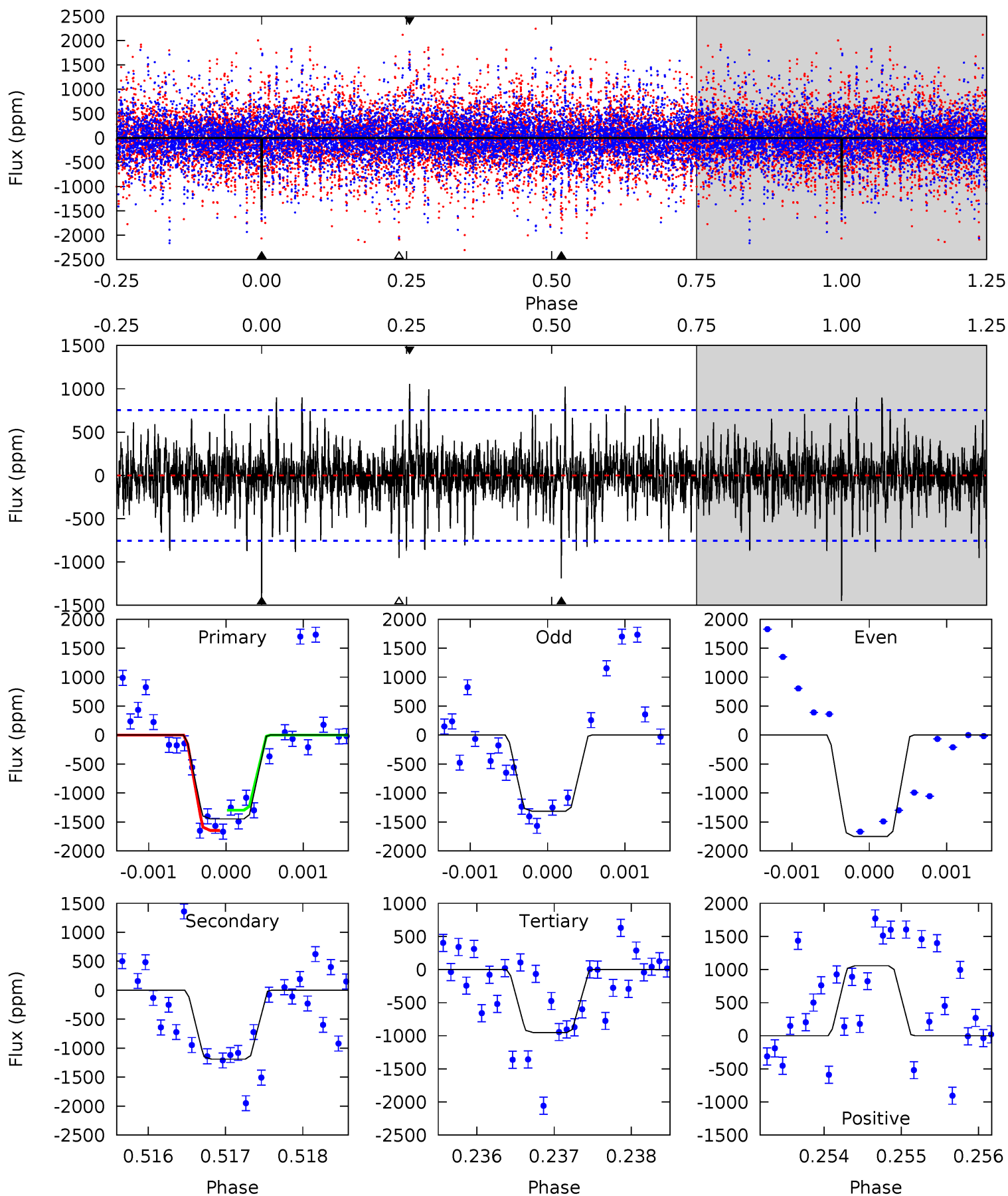
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	7.31	7.09	7.66	5.40	3.21	2.16	4.09	3.52	0.22	-0.35	1.95	1.03	0.41	0.80



Alt Model-Shift Uniqueness Test

008264583-06, P = 91.543556 Days, E = 102.964087 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.5	8.60	6.87	7.63	5.45	3.28	1.65	3.58	2.83	1.72	0.97	1.41	0.64	0.42	1.28



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-638 ± 87	$8.82^{+1.52}_{-1.45}$	968^{+52}_{-57}	5912^{+468}_{-378}	975^{+450}_{-279}
Alt.	-1190 ± 138	$9.30^{+1.67}_{-1.67}$	971^{+47}_{-62}	6767^{+591}_{-488}	1635^{+880}_{-467}

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 $A_{obs} \gg 1.0$

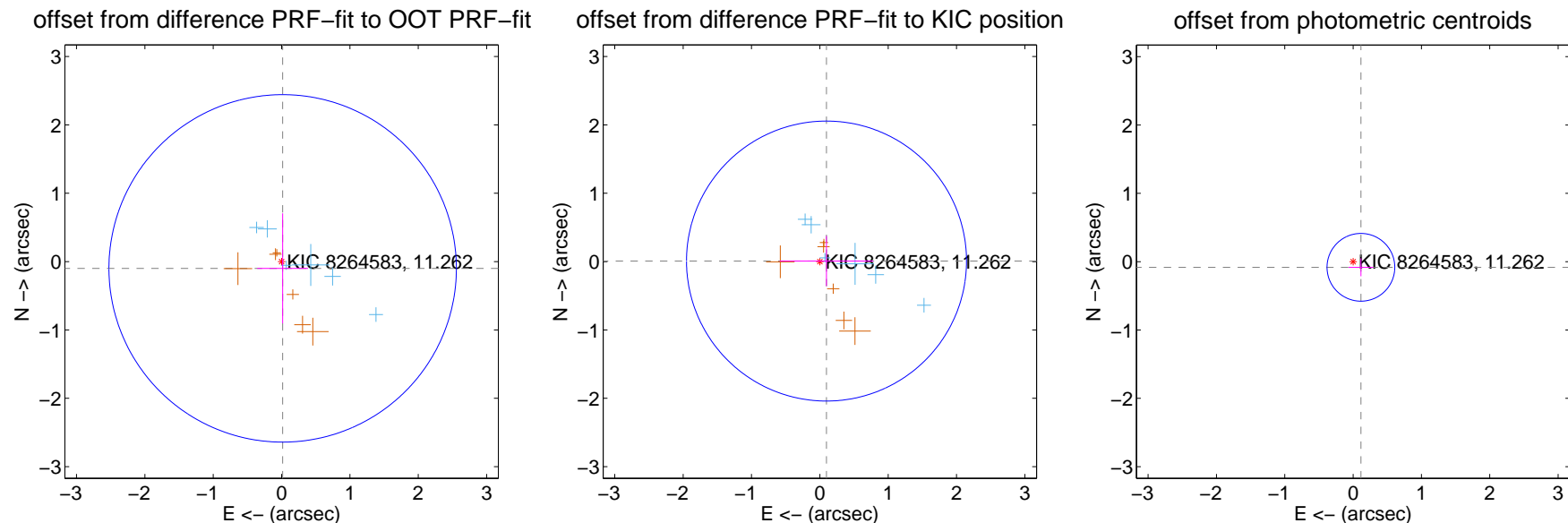
DV Centroid Data

Supplemental centroid analysis for 008264583-06. **Kepler magnitude: 11.26.** Transit SNR 8.59

There are 6 quarters with good PRF difference image offsets

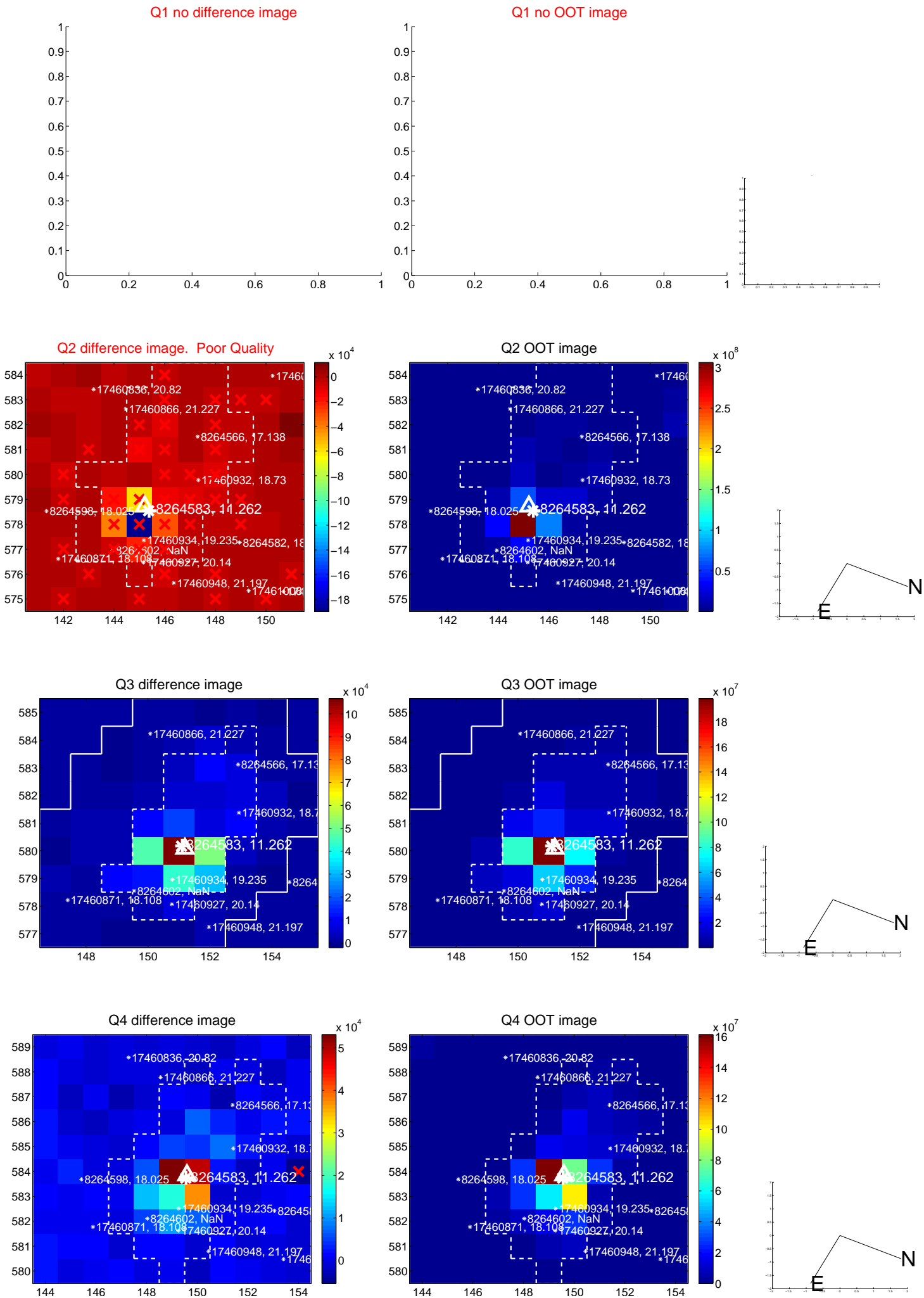
The direct PRF centroid is offset from the target star catalog position by about 0.18 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.101 ± 0.847	0.12	-0.016 ± 0.372	-0.099 ± 0.805
PRF-fit source offset from KIC position	0.098 ± 0.683	0.14	-0.097 ± 0.684	0.008 ± 0.366
photometric centroid source offset	0.14 ± 0.17	0.85	-0.11 ± 0.18	-0.08 ± 0.13

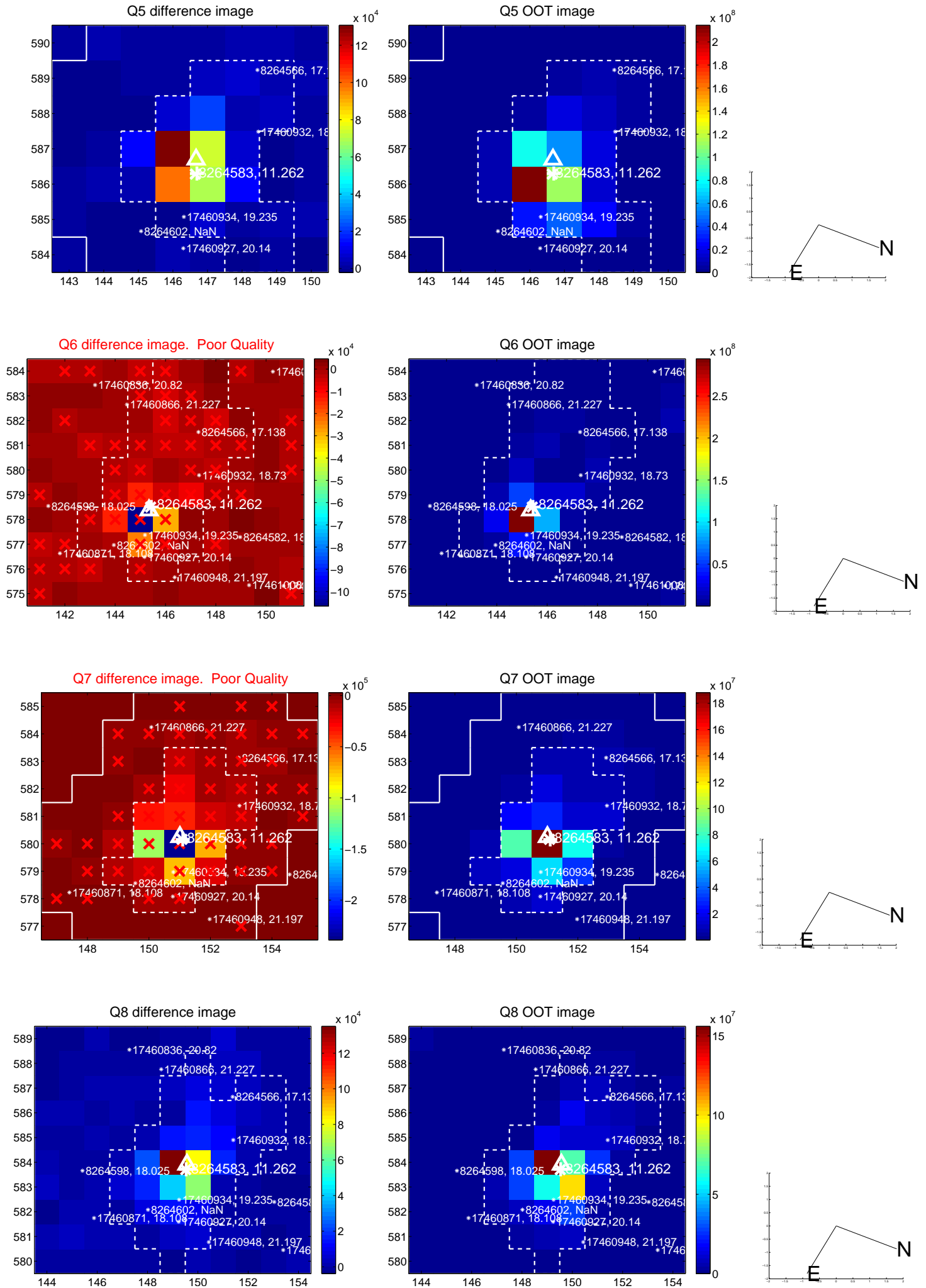


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

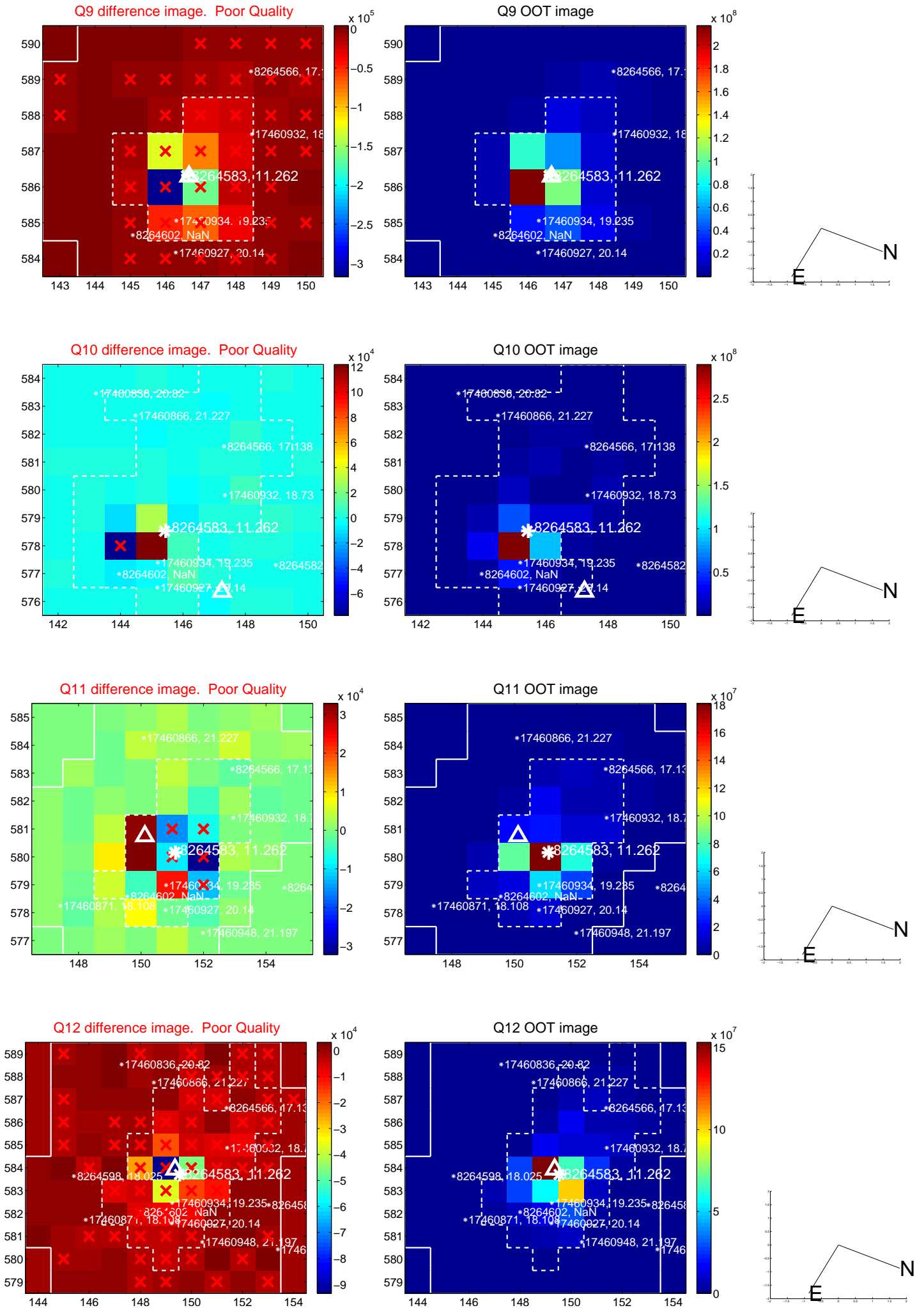
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



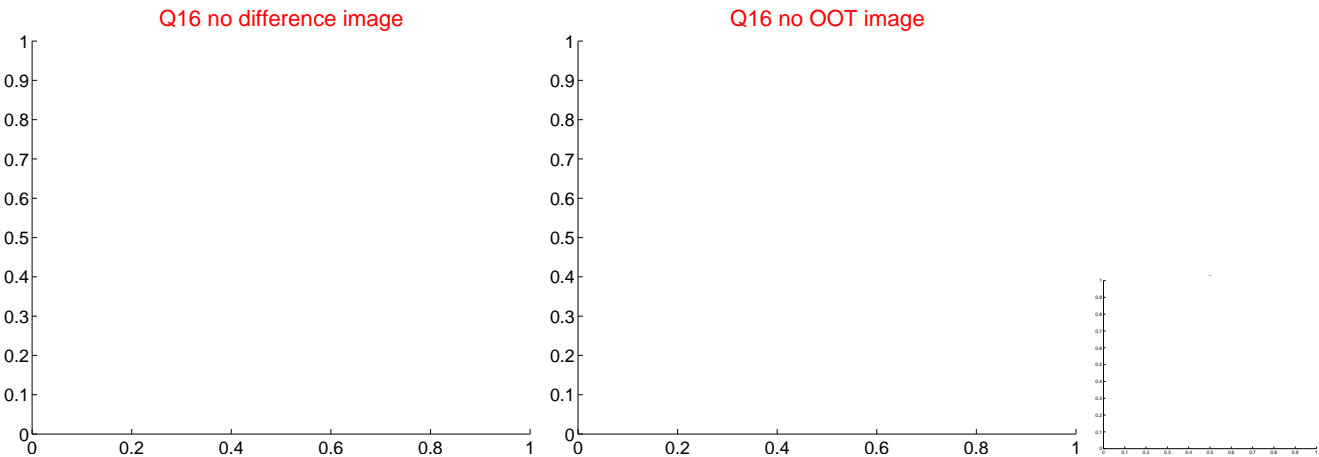
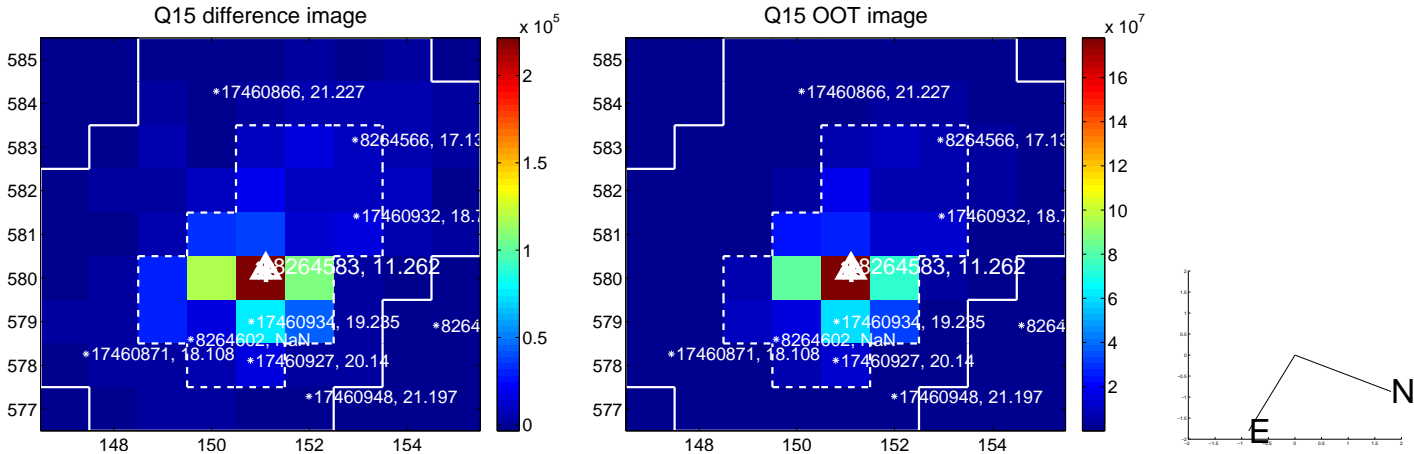
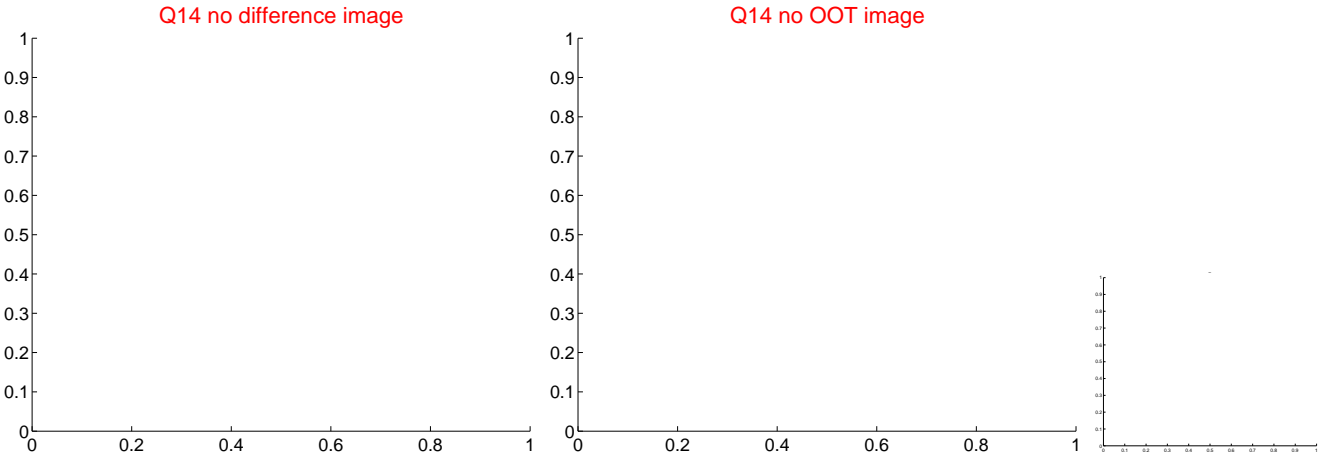
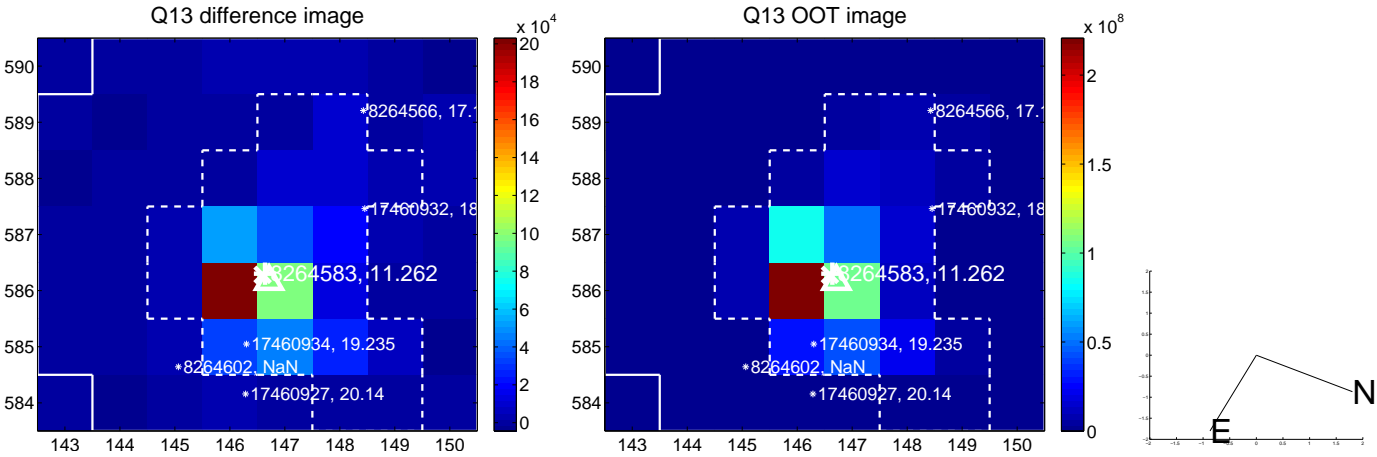
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



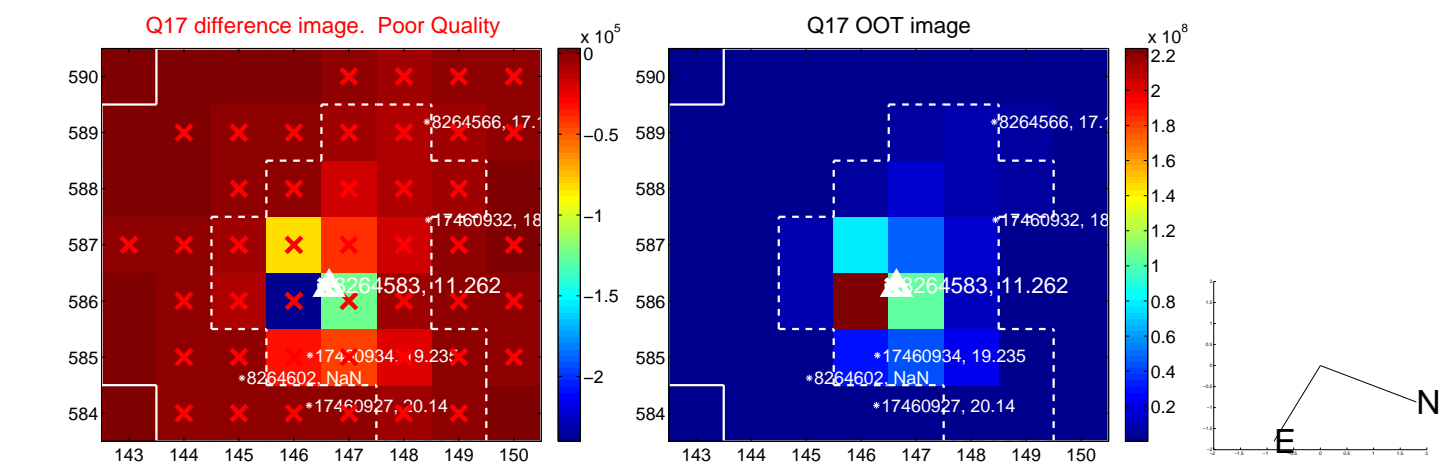
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



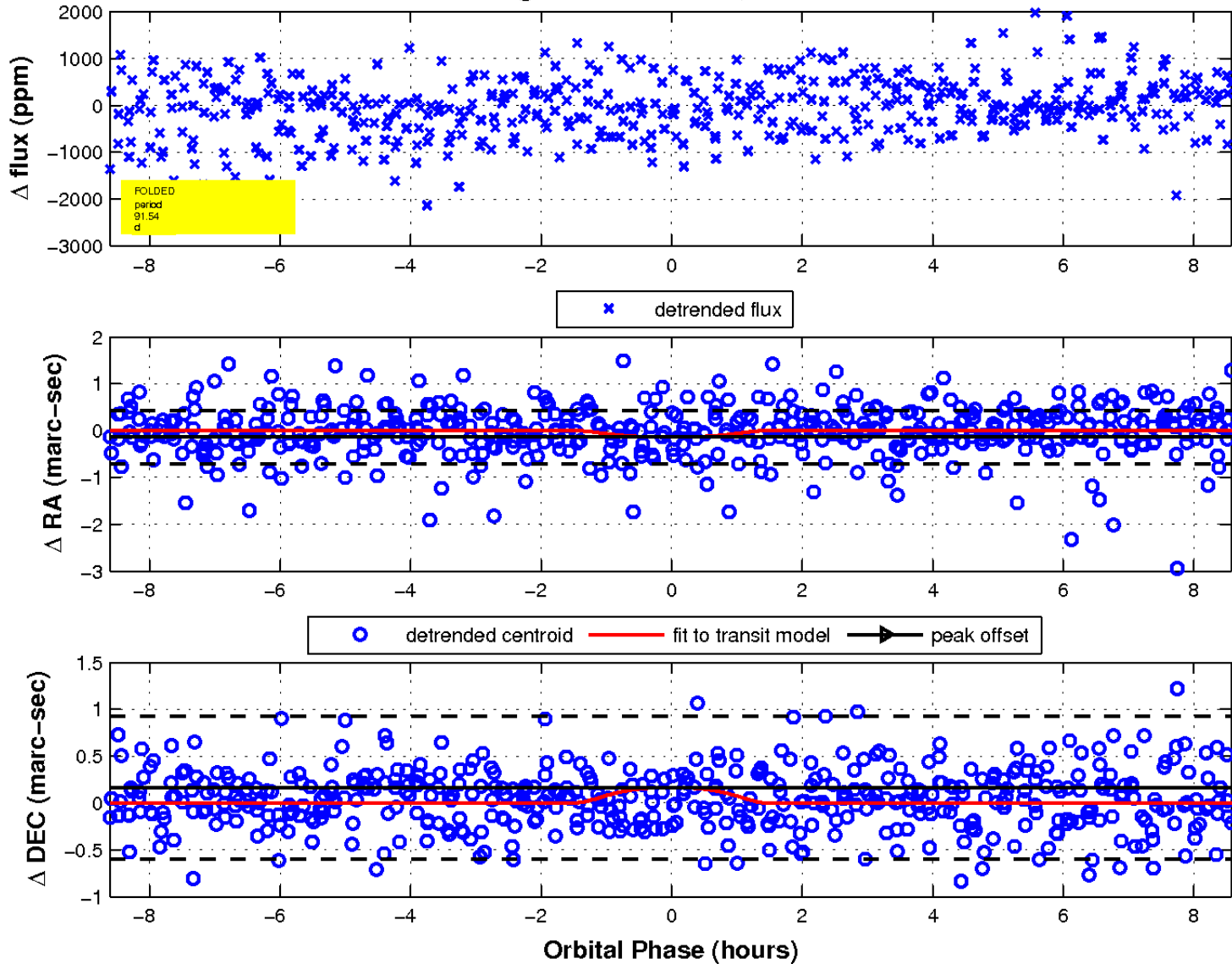
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

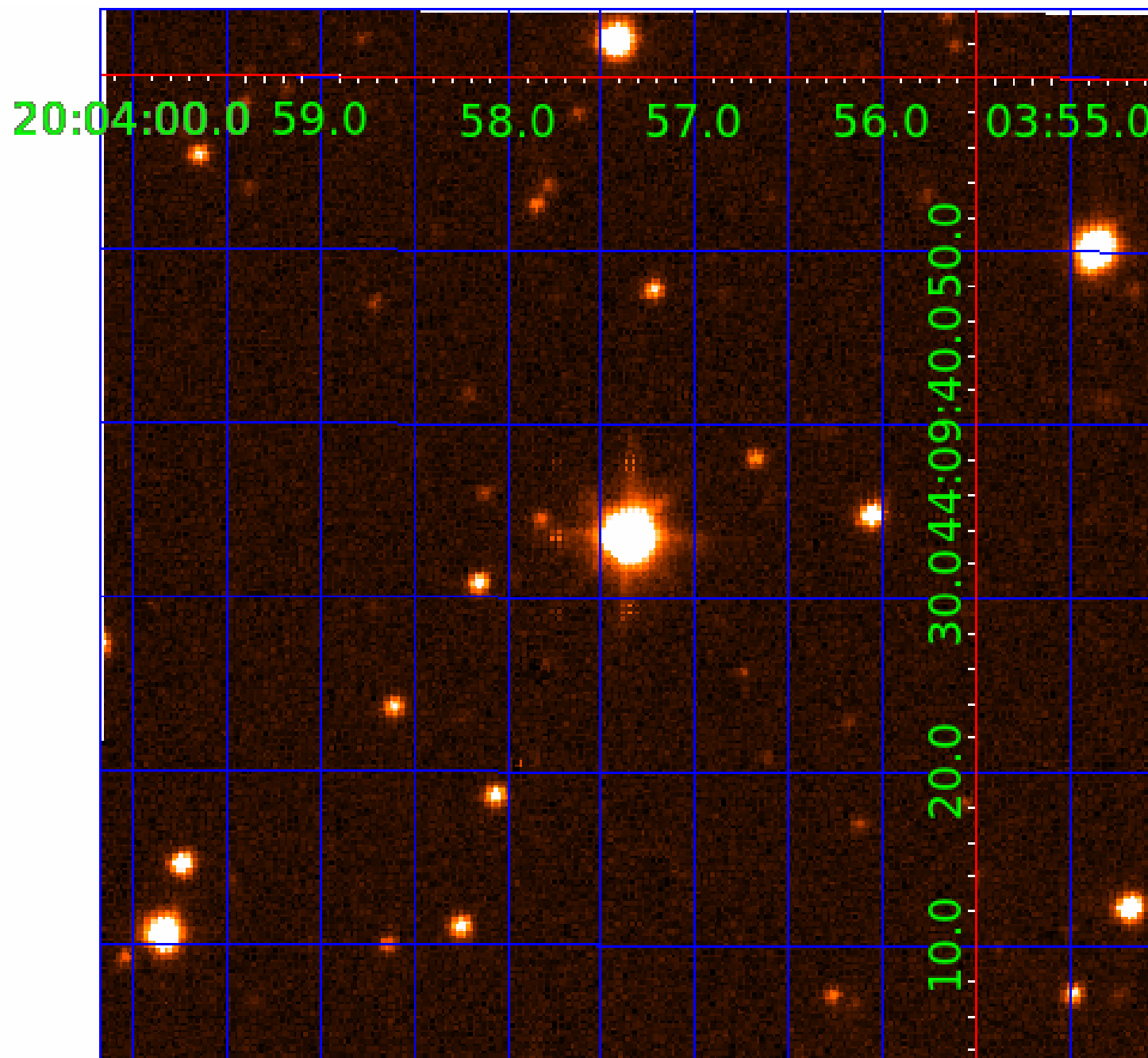


fluxWeightedCentroids, Planet 6 of 9



UKIRT Image

Declination



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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

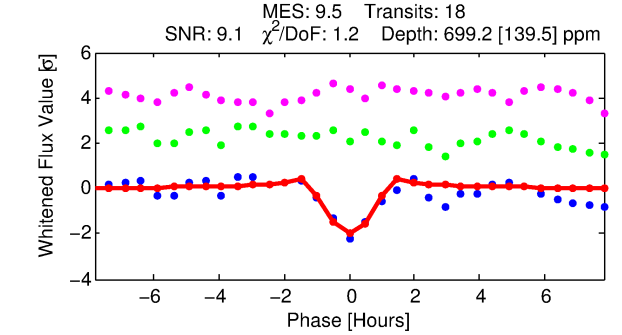
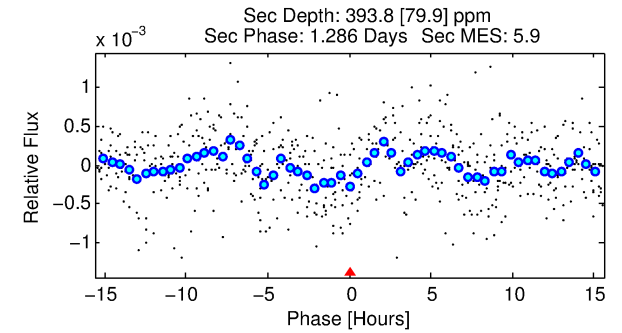
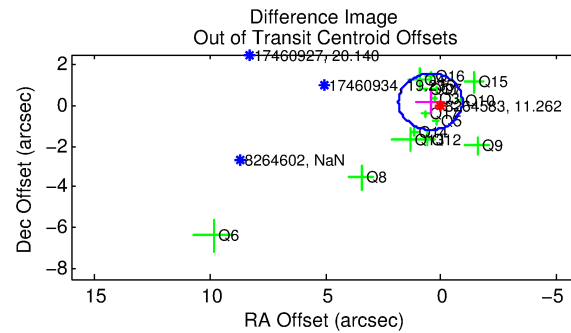
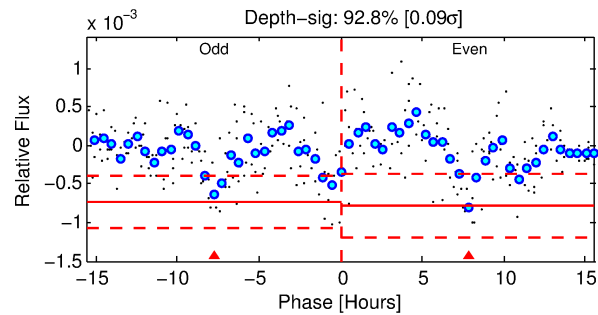
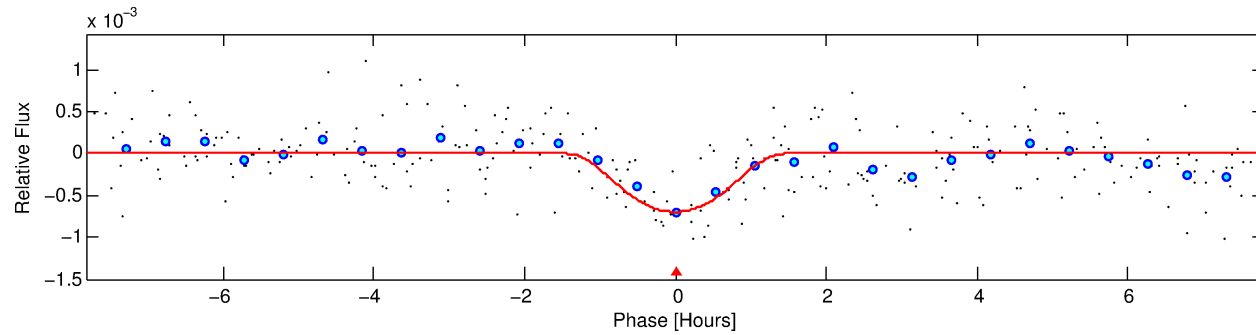
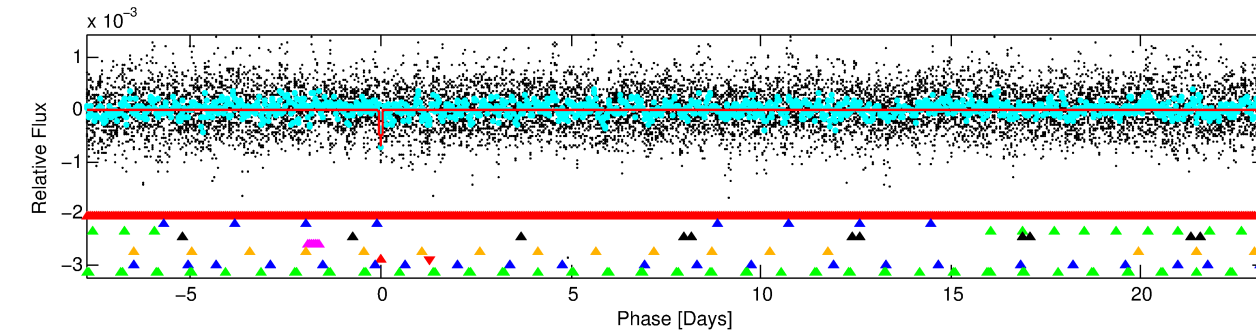
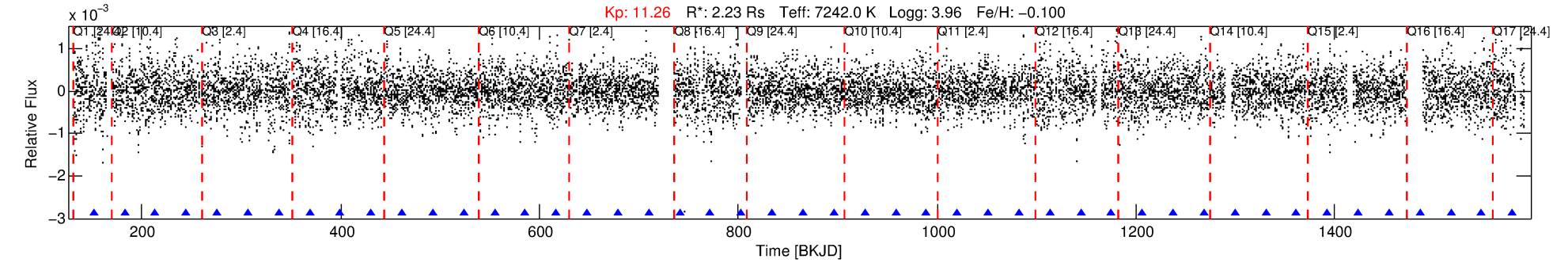
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-07

No Significant Match Found

DV One-Page Summary

KIC: 8264583 Candidate: 7 of 9 Period: 31.022 d



DV Fit Results:

Period = 31.02238 [0.00027] d
Epoch = 151.7197 [0.0076] BKJD
Rp/R* = 0.0446 [0.1606]
a/R* = 28.05 [26.85]
b = 1.00 [0.24]
Seff = 236.10 [74.01]
Teff = 1000 [78] K
Rp = 10.85 [39.18] Re
a = 0.2279 [0.0460] AU
Ag = 95.65 [690.39] [0.14 σ]
Teffp = 4833 [8714] K [0.44 σ]

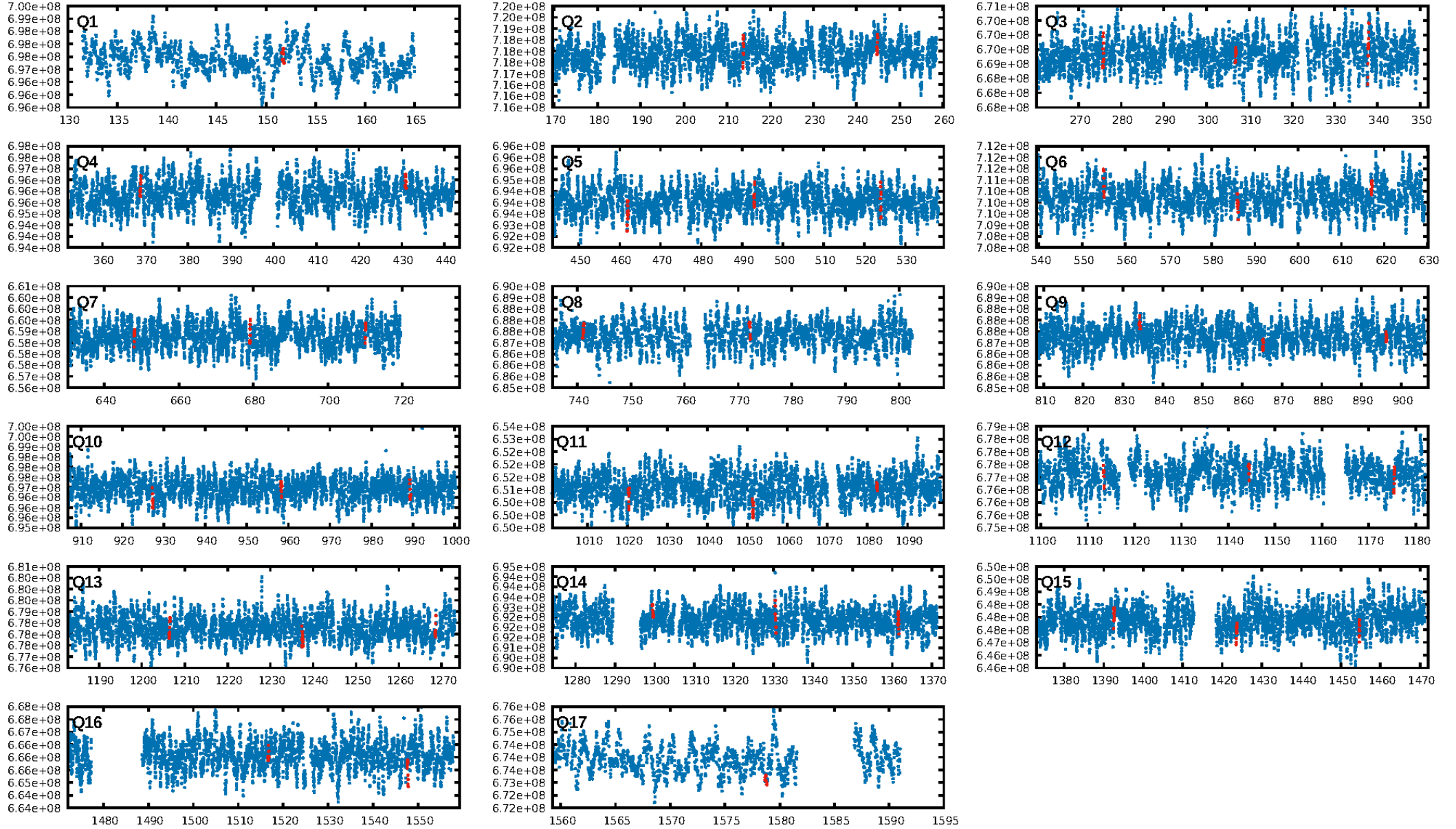
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [91.00 σ]
LongPeriod-sig: 100.0% [116.33 σ]
ModelChiSquare2-sig: 19.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [18/18]
GhostDiagnostic-chr: 0.3414
Centroid-sig: 2.7%
Centroid-so: 0.195 arcsec [1.60 σ]
OotOffset-rm: 0.499 arcsec [1.08 σ]
KicOffset-rm: 0.422 arcsec [1.22 σ]
OotOffset-st: 3/4/4/4 [15]
KicOffset-st: 3/4/4/4 [15]
DiffImageQuality-fgm: 0.47 [7/15]
DiffImageOverlap-fno: 0.00 [0/17]

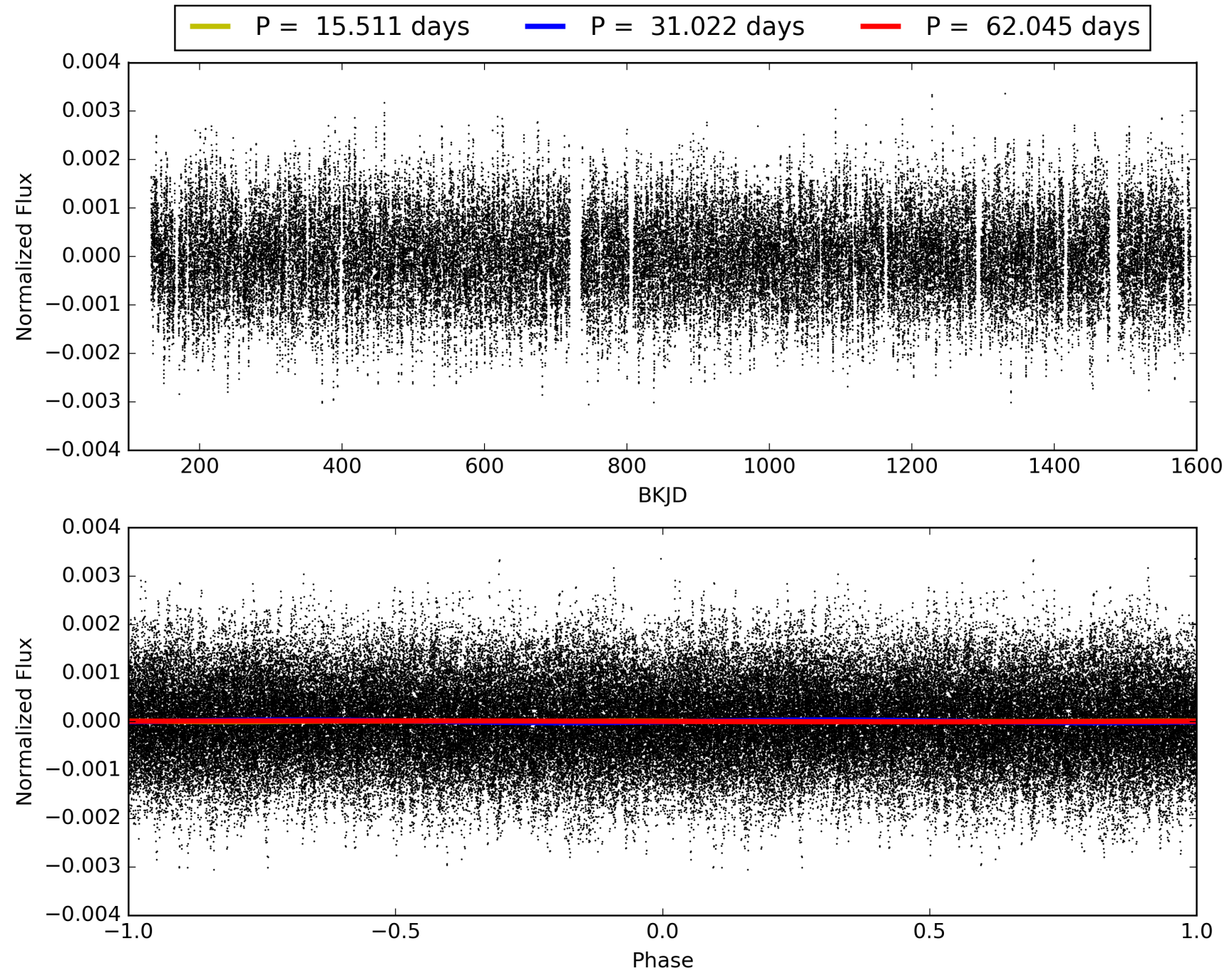
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:45:04 Z

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

TCE 008264583-07, PDC Light Curves

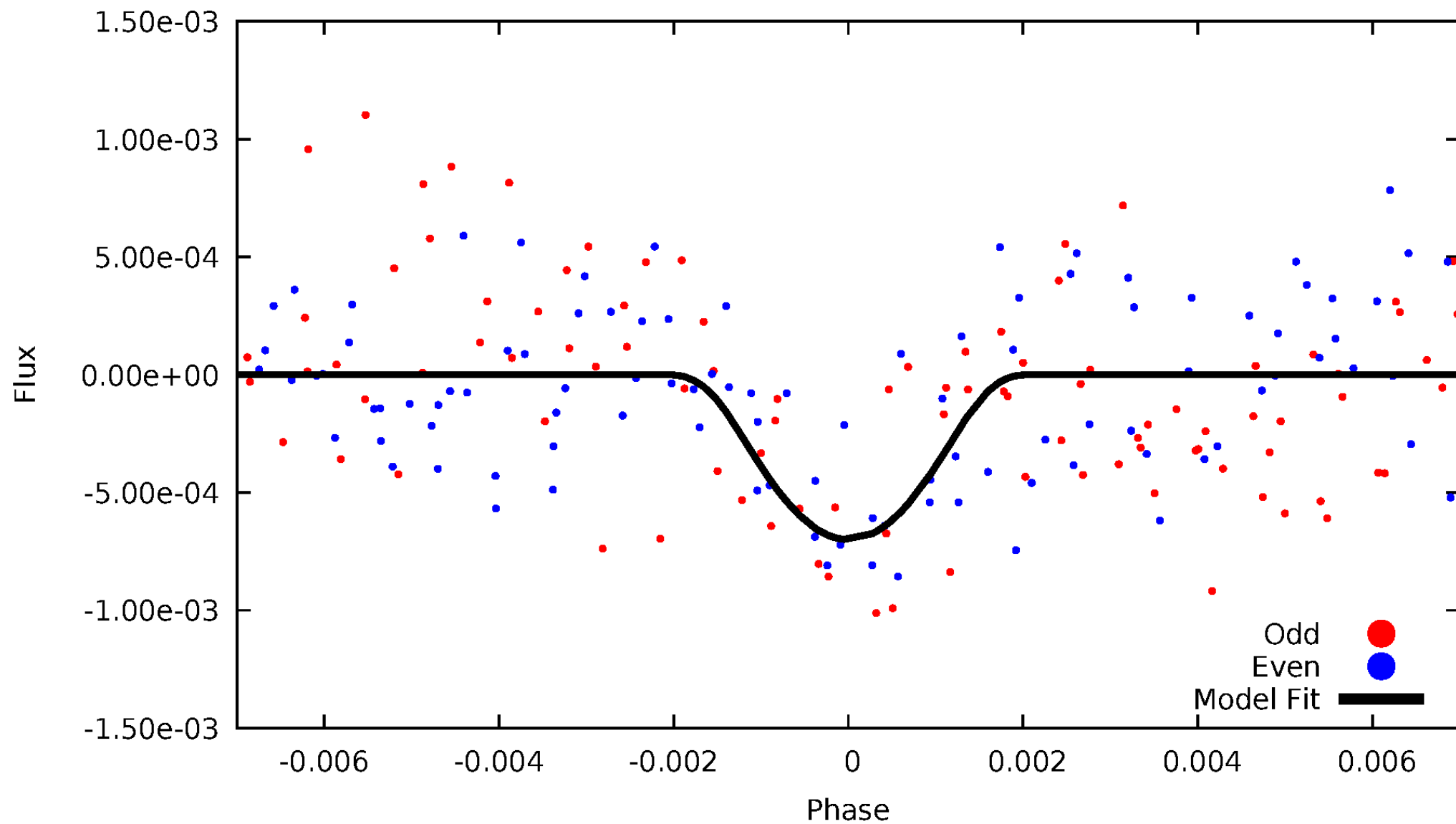


TCE 008264583-07



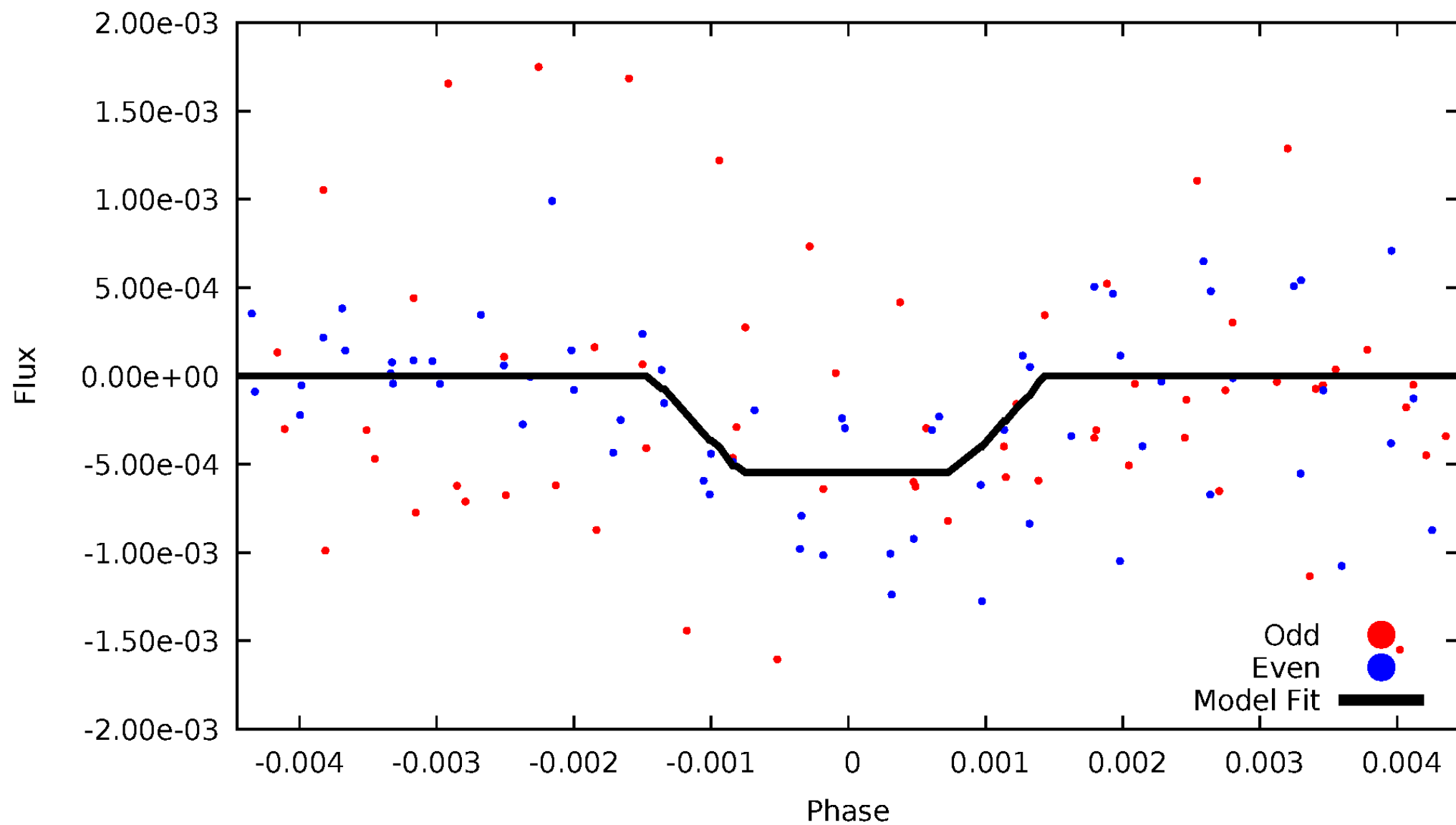
DV Odd/Even

TCE 008264583-07



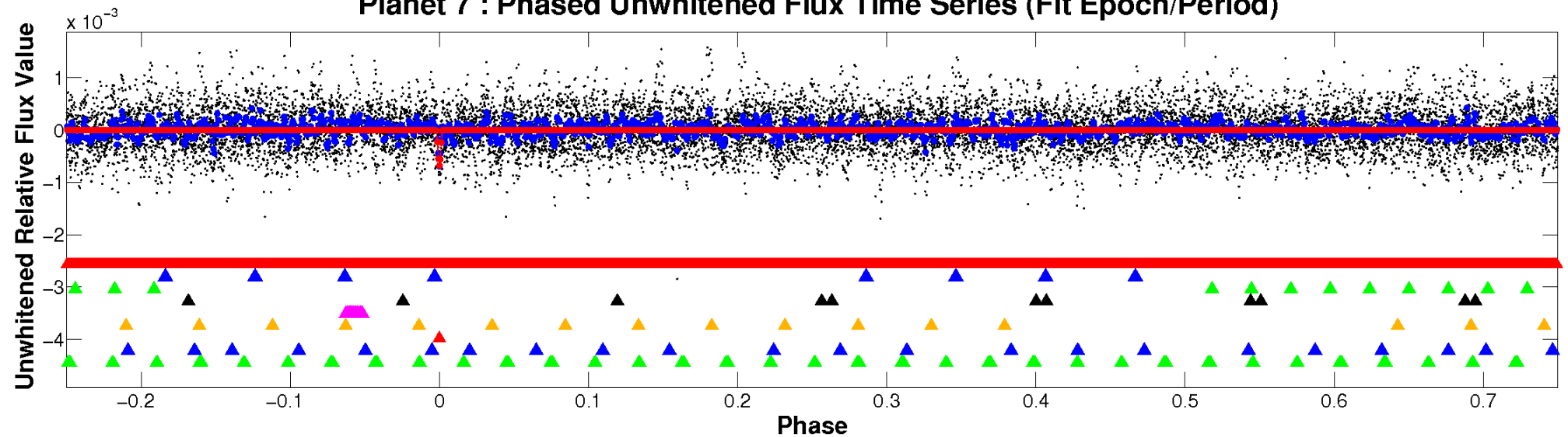
ALT Odd/Even

TCE 008264583-07

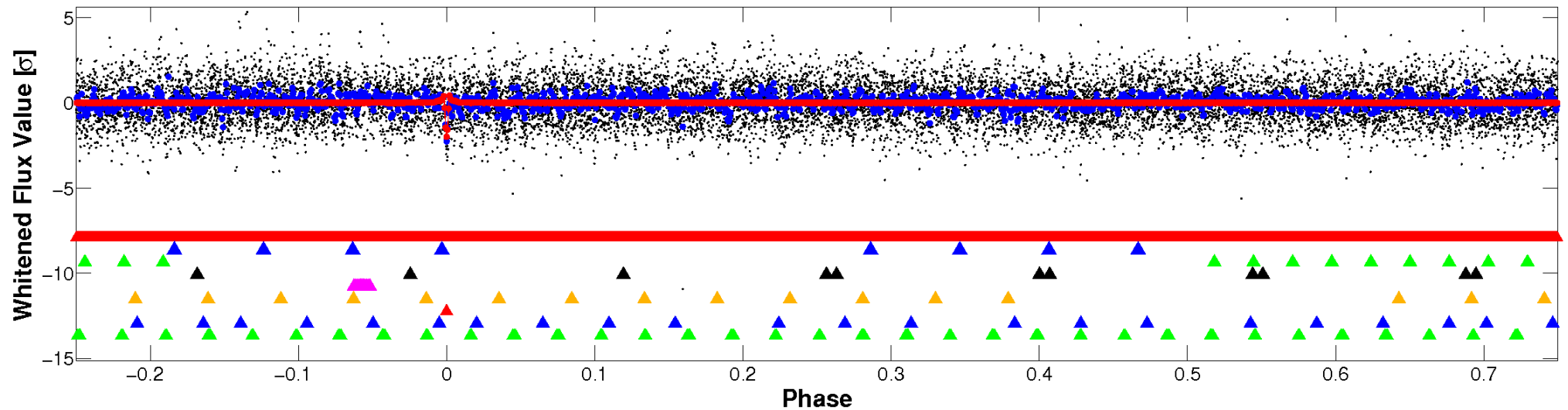


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

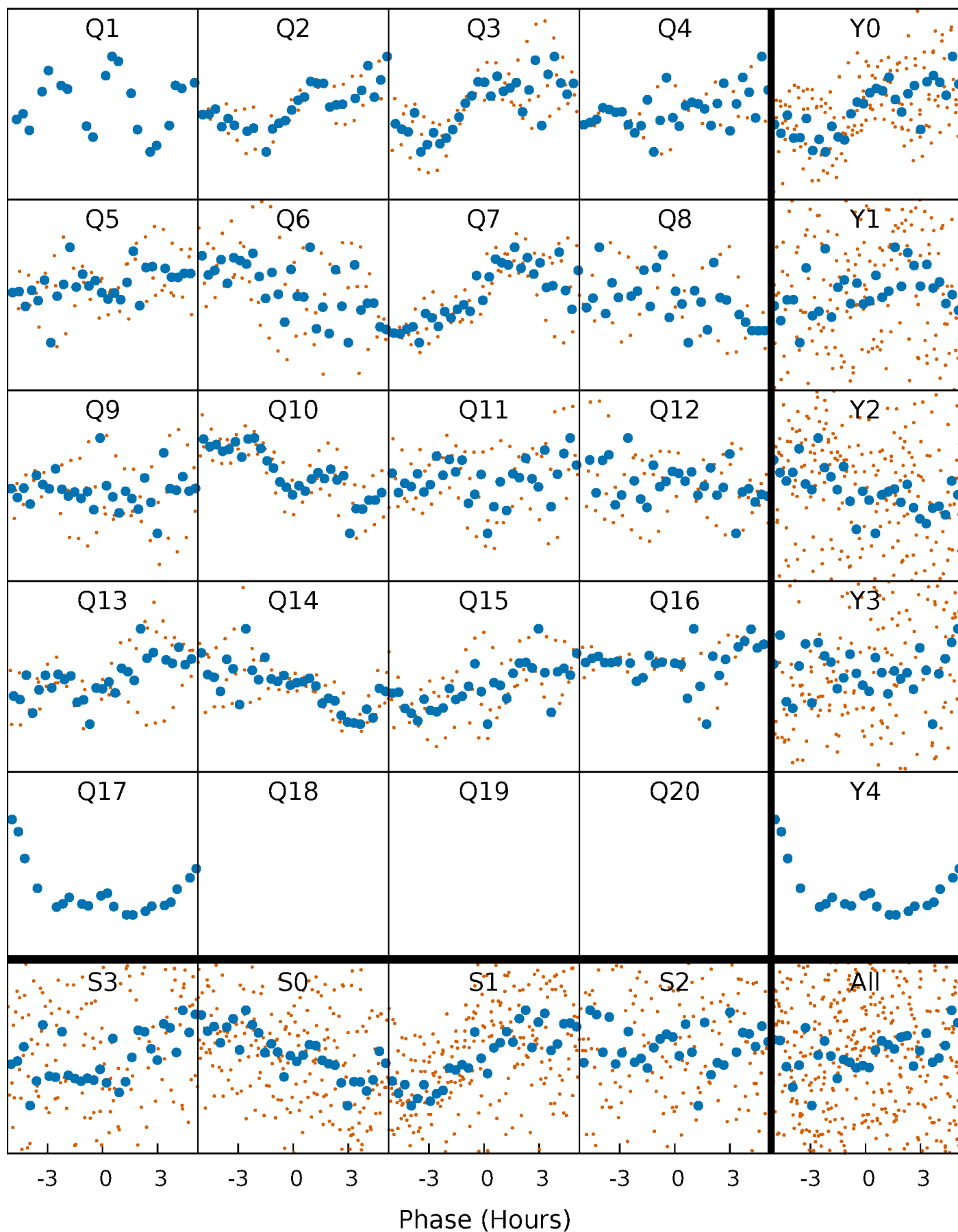


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



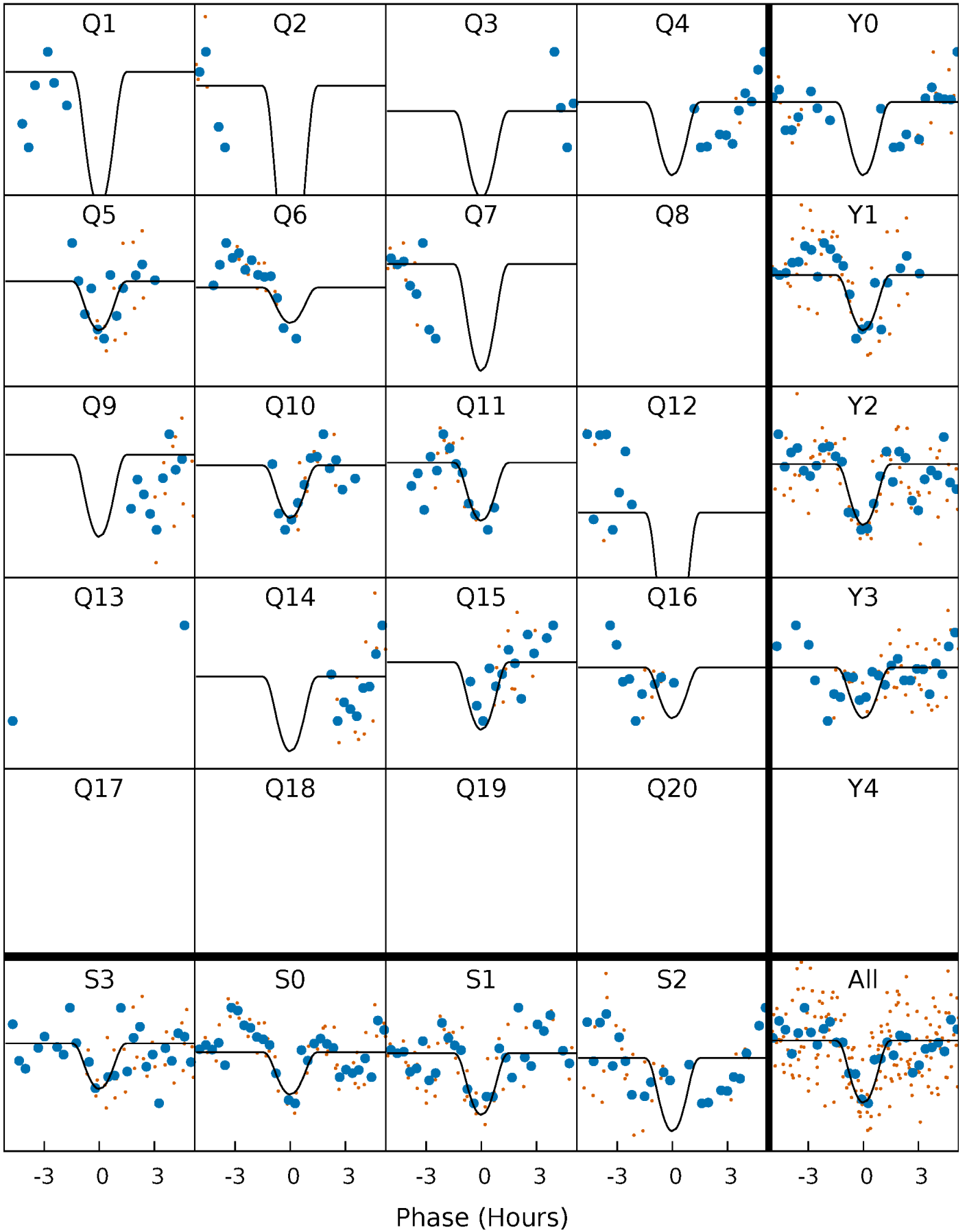
PDC Quarter-Phased Transit Curves

TCE 008264583-07 $P = 31.022375$ Days $T_0 = 151.719745$ (BKJD)



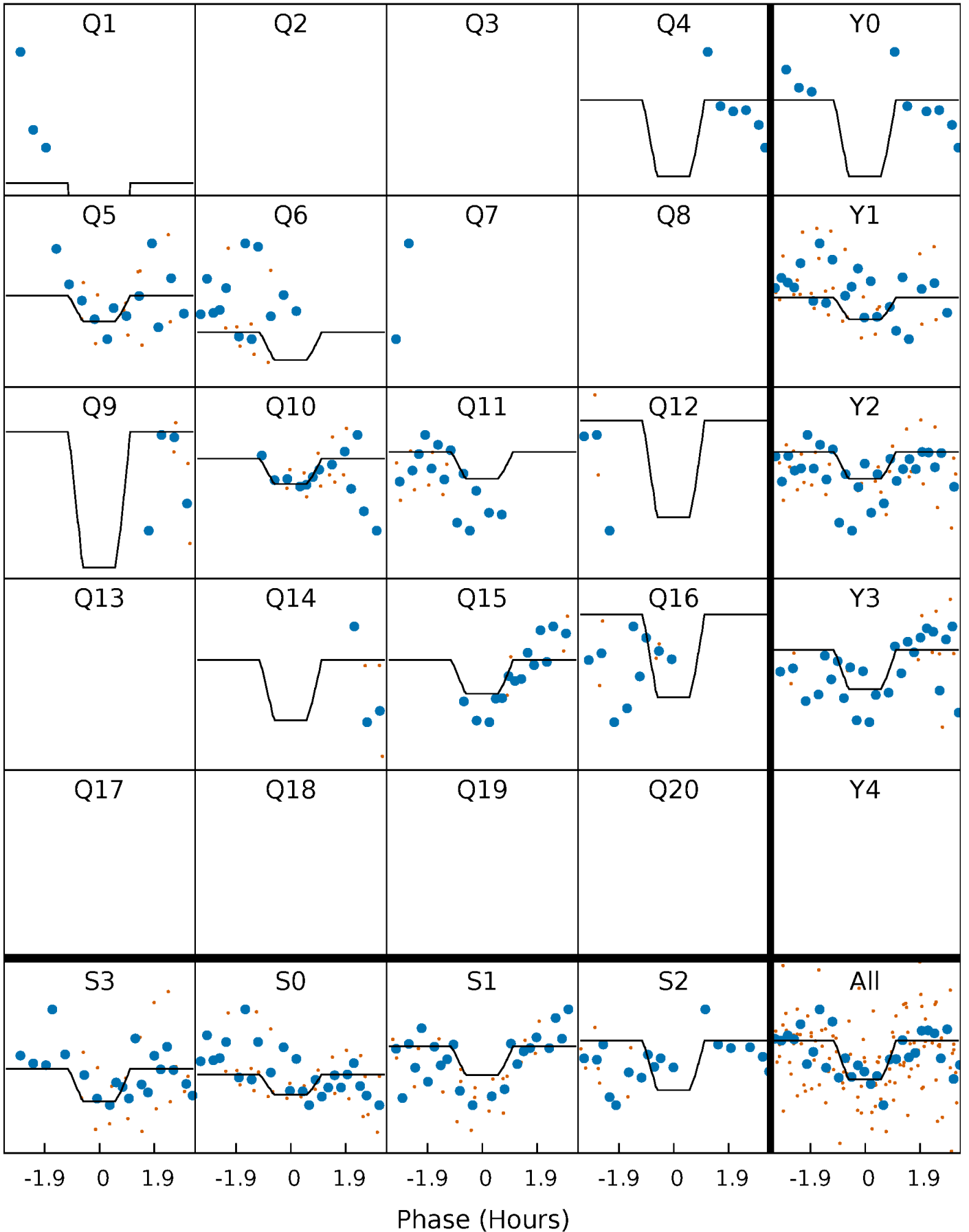
DV Quarter-Phased Transit Curves

TCE 008264583-07 $P = 31.022375$ Days $T_0 = 151.719745$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

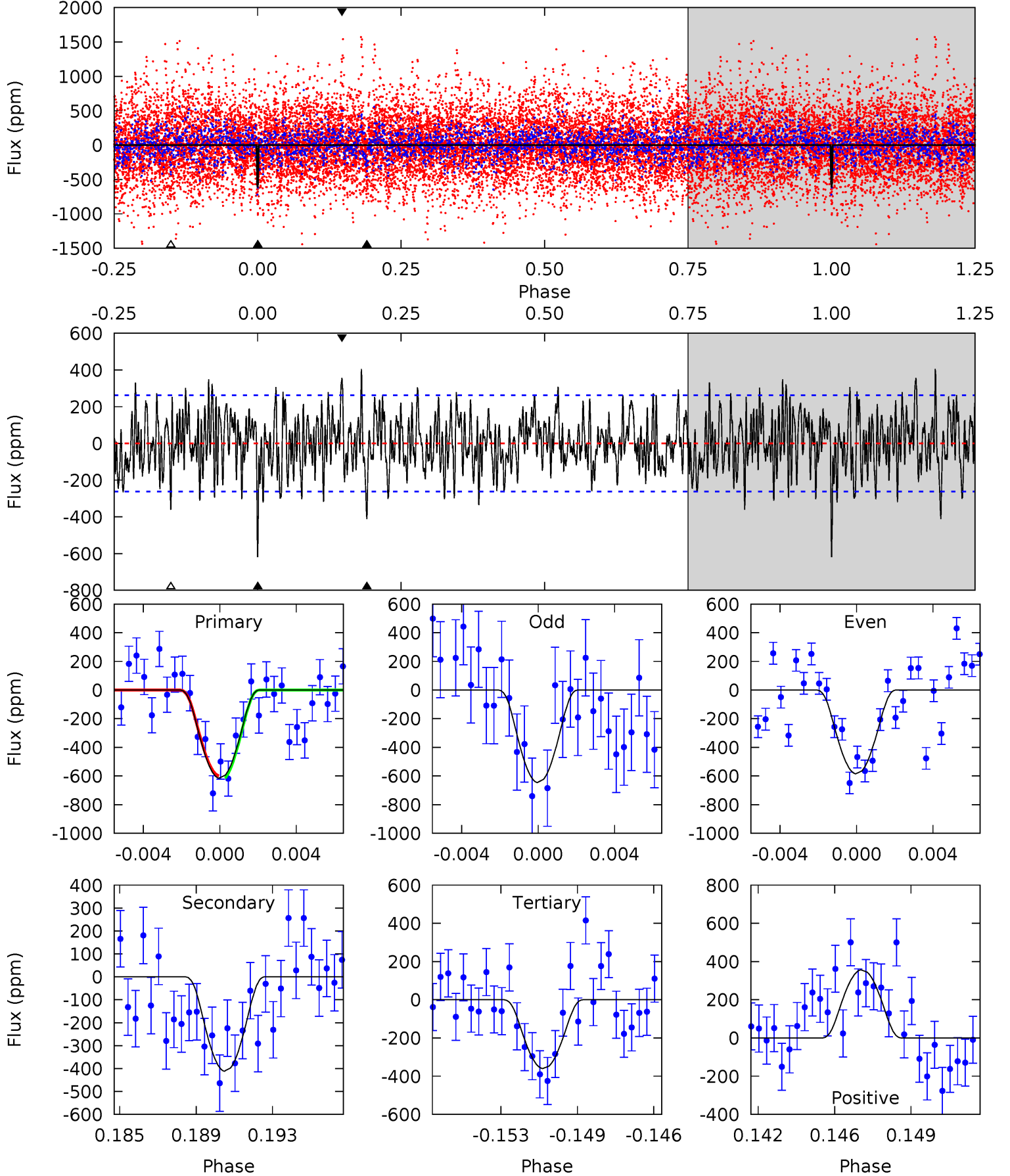
TCE 008264583-07 P= 31.022408 Days $T_0=151.717531$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-07, $P = 31.022375$ Days, $E = 120.697370$ Days

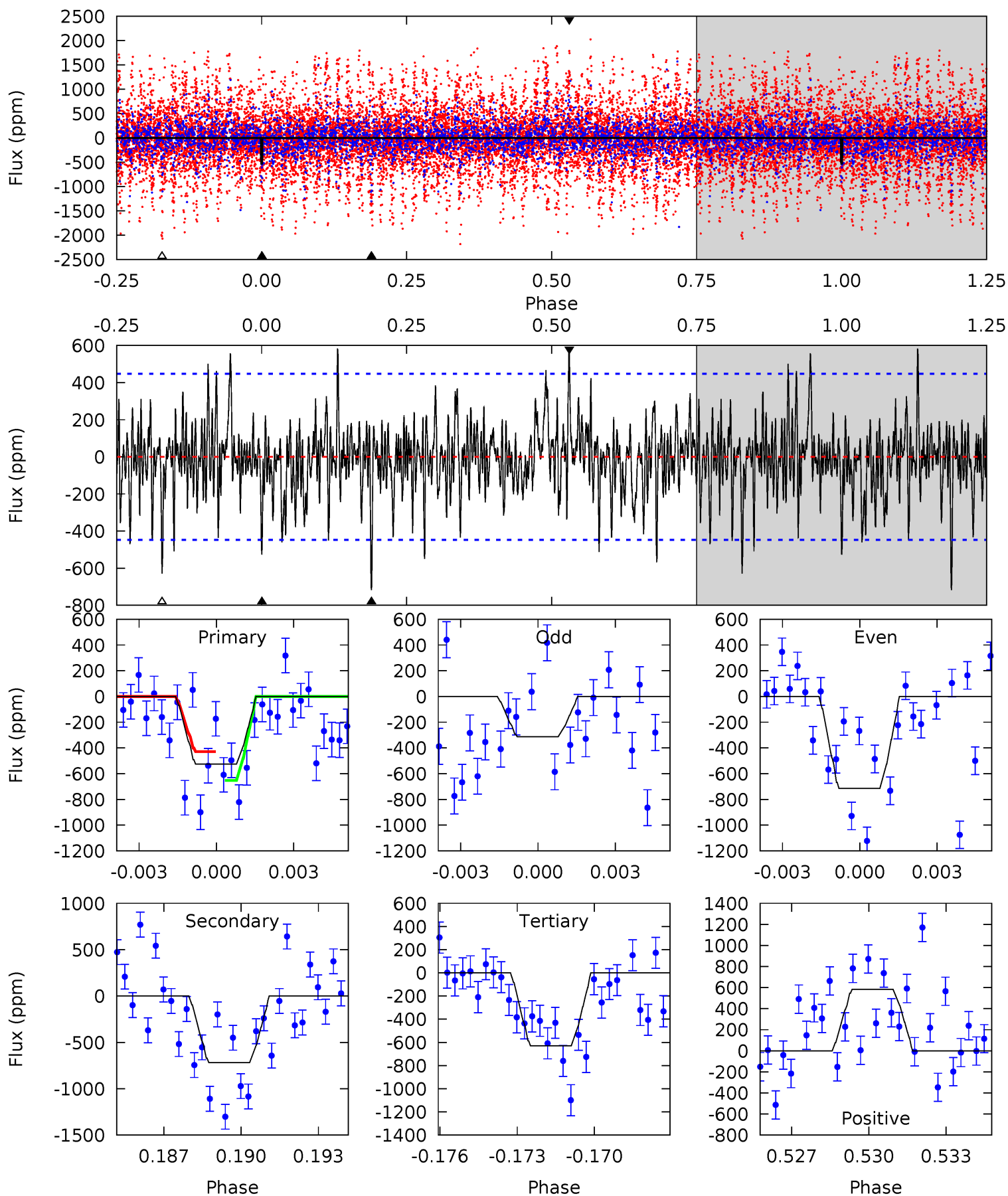
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.2	8.16	7.14	7.08	5.20	2.88	2.50	5.07	5.14	1.02	1.09	0.61	0.86	0.40	0.16



Alt Model-Shift Uniqueness Test

008264583-07, P = 31.022408 Days, E = 120.695123 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.19	8.45	7.40	6.88	5.27	2.99	1.89	-1.21	-0.69	1.04	1.57	2.35	0.88	0.45	1.34



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-412 ± 50	$28.93^{+29.92}_{-20.15}$	1394^{+67}_{-85}	3413^{+1901}_{-661}	14^{+139}_{-10}
Alt.	-718 ± 85	$26.14^{+29.35}_{-17.84}$	1390^{+66}_{-80}	3869^{+2351}_{-840}	30^{+268}_{-23}

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 $A_{obs} \gg 1.0$

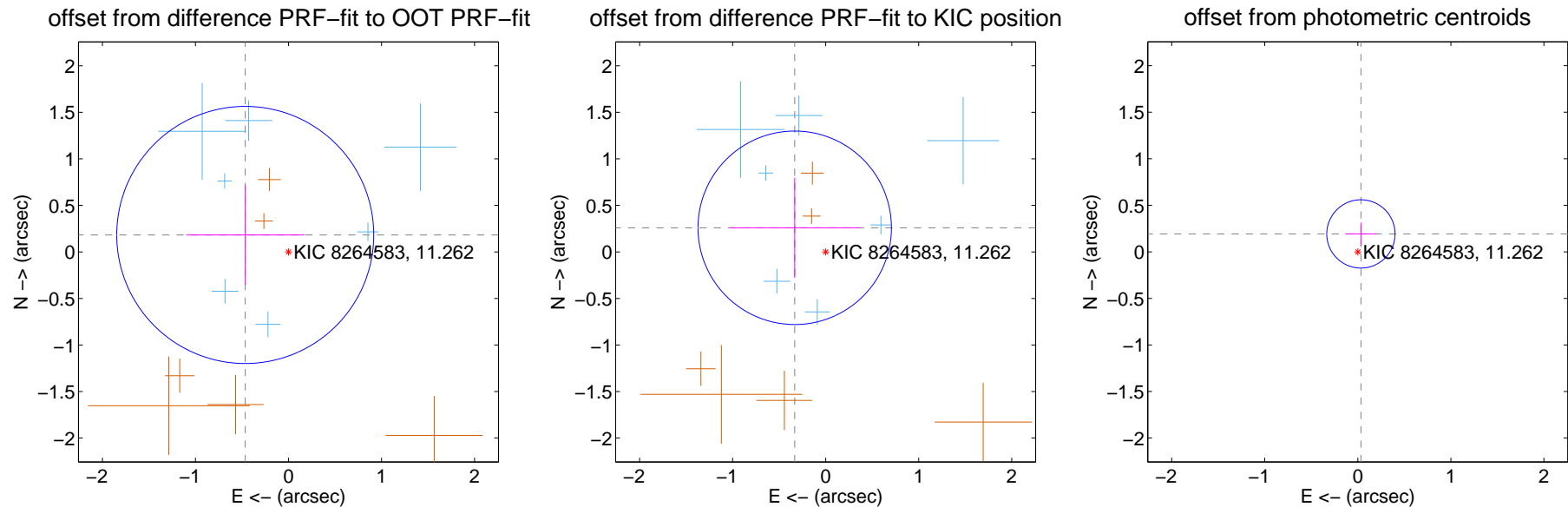
DV Centroid Data

Supplemental centroid analysis for 008264583-07. **Kepler magnitude: 11.26.** Transit SNR 9.14

There are 7 quarters with good PRF difference image offsets

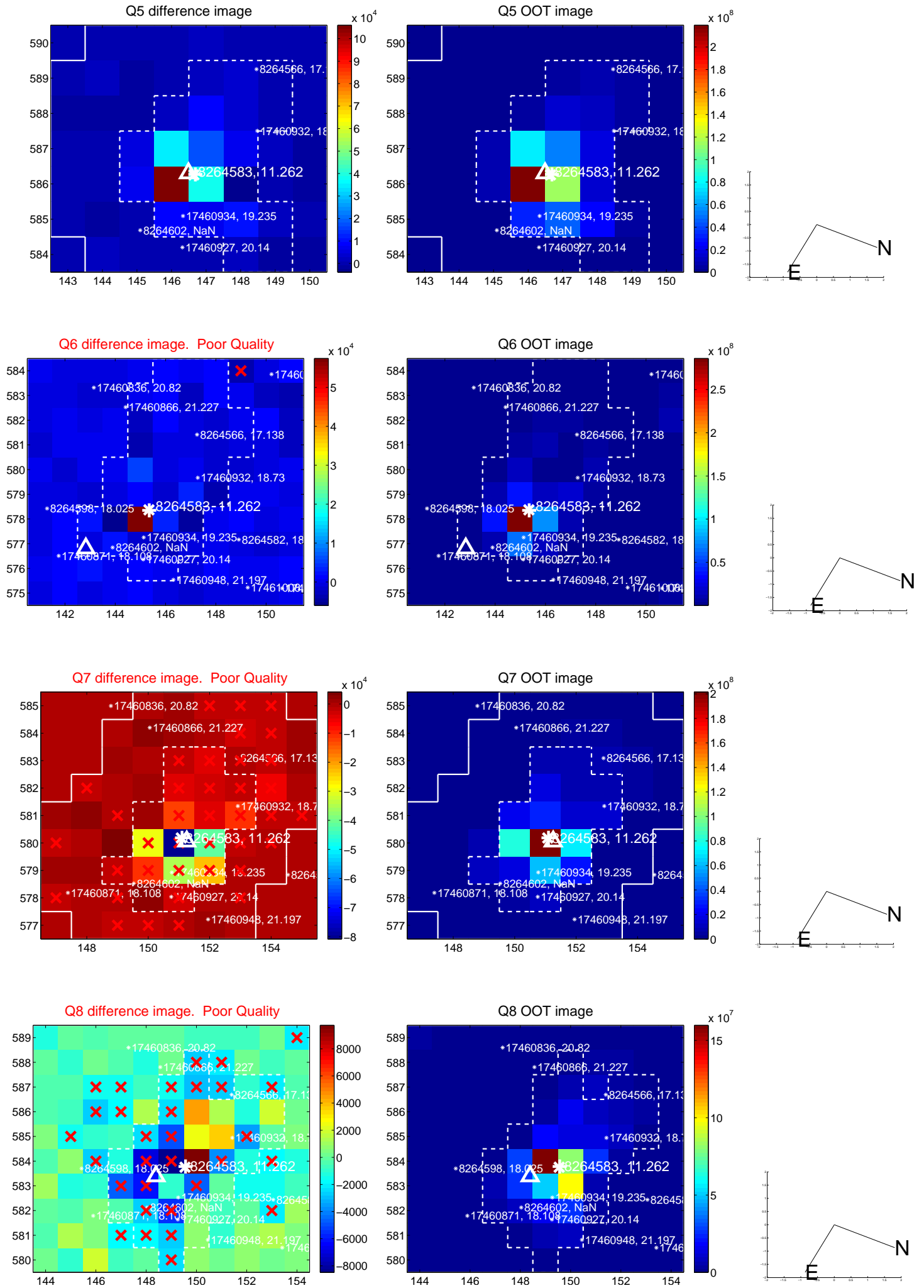
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.499 ± 0.460	1.08	0.465 ± 0.635	0.182 ± 0.535
PRF-fit source offset from KIC position	0.422 ± 0.347	1.22	0.333 ± 0.701	0.259 ± 0.538
photometric centroid source offset	0.20 ± 0.12	1.60	-0.03 ± 0.17	0.19 ± 0.12

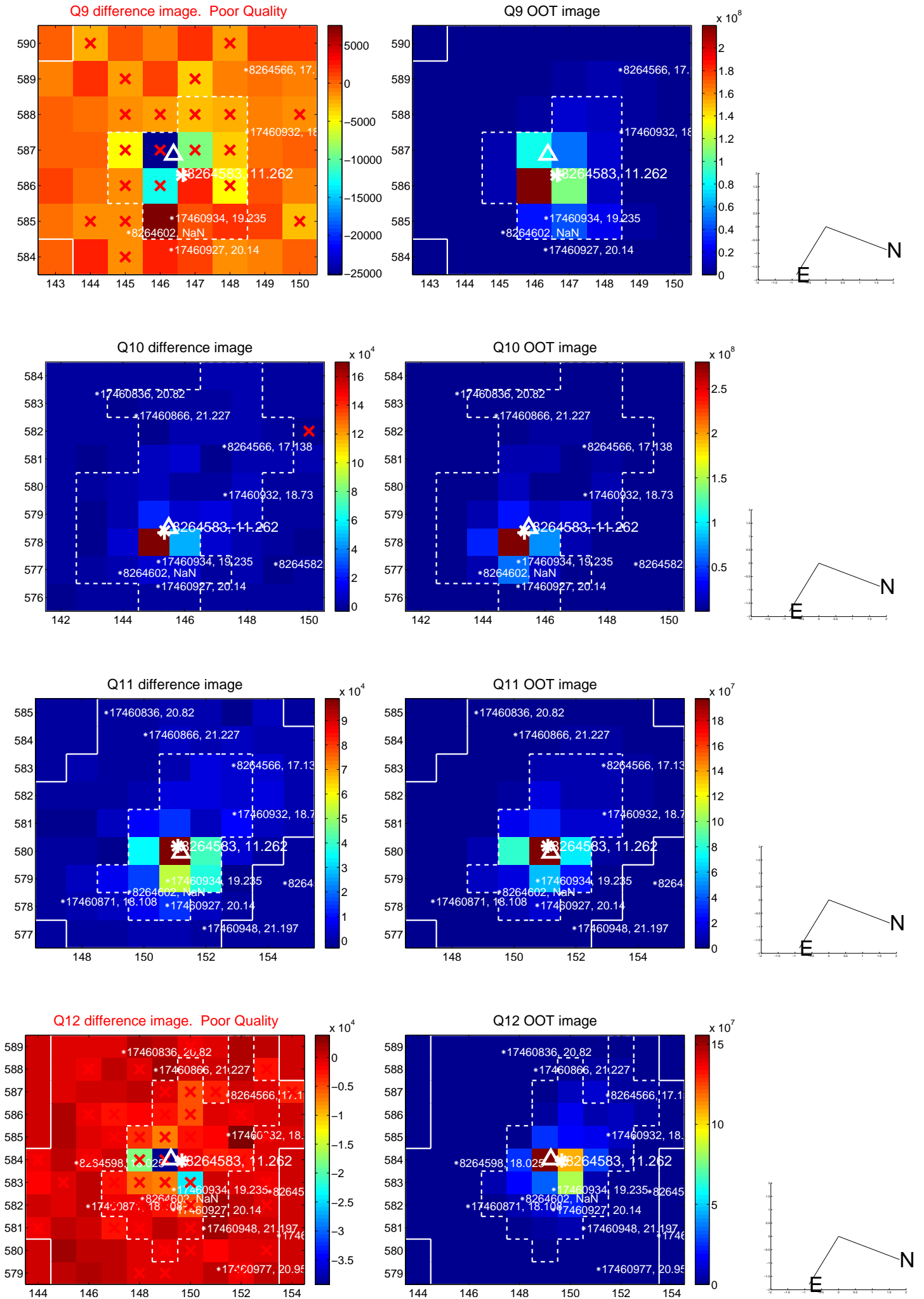


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

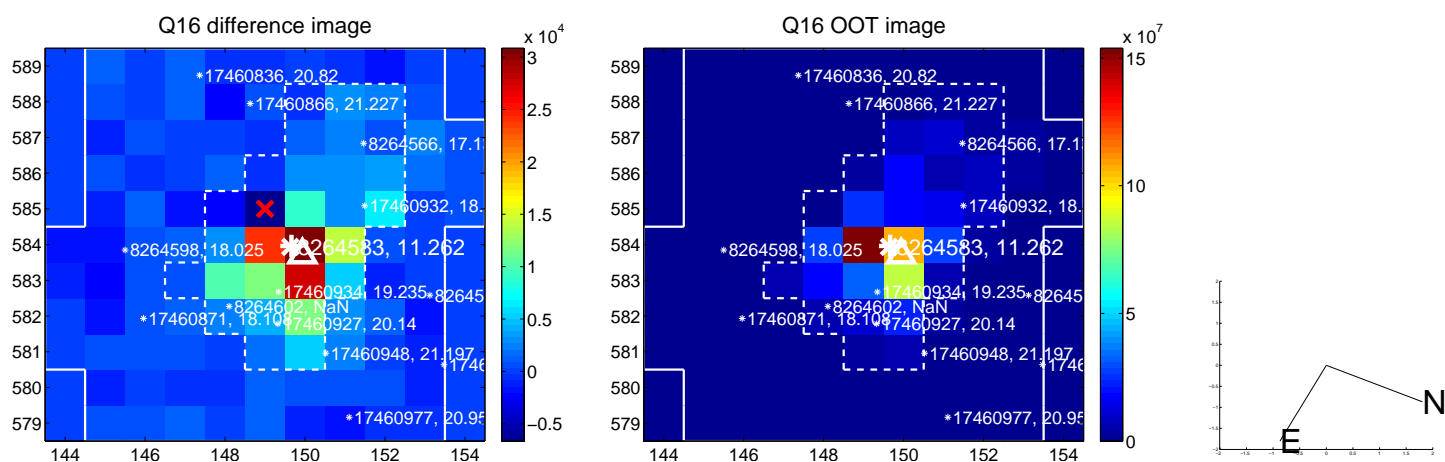
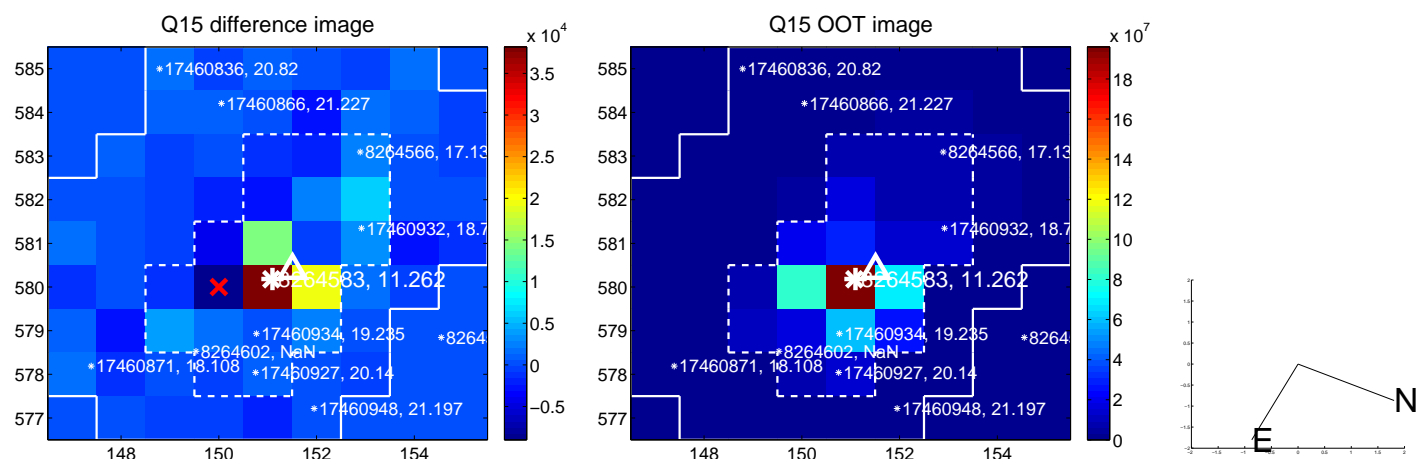
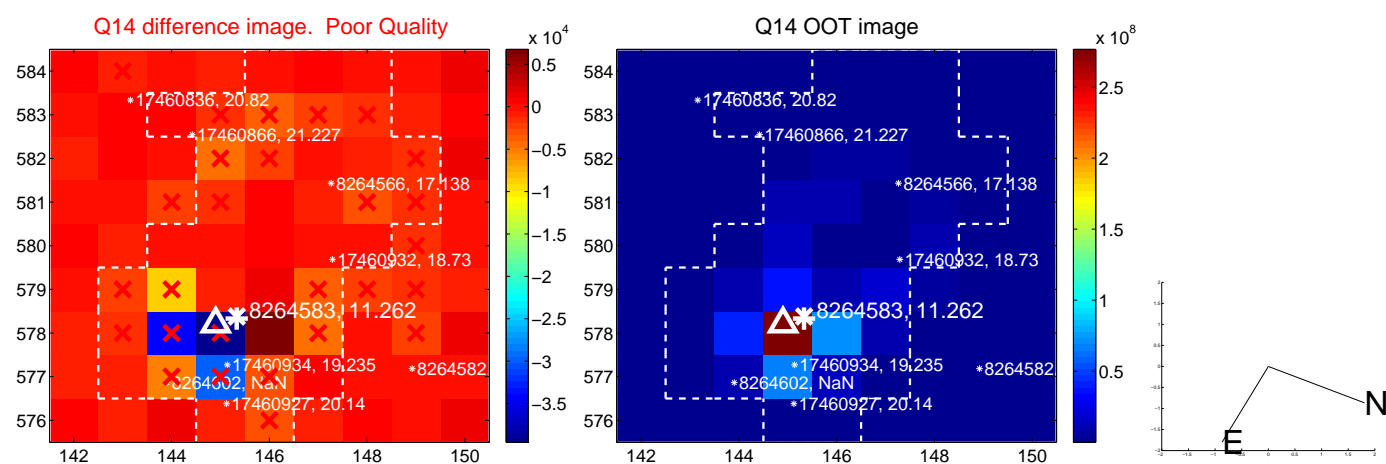
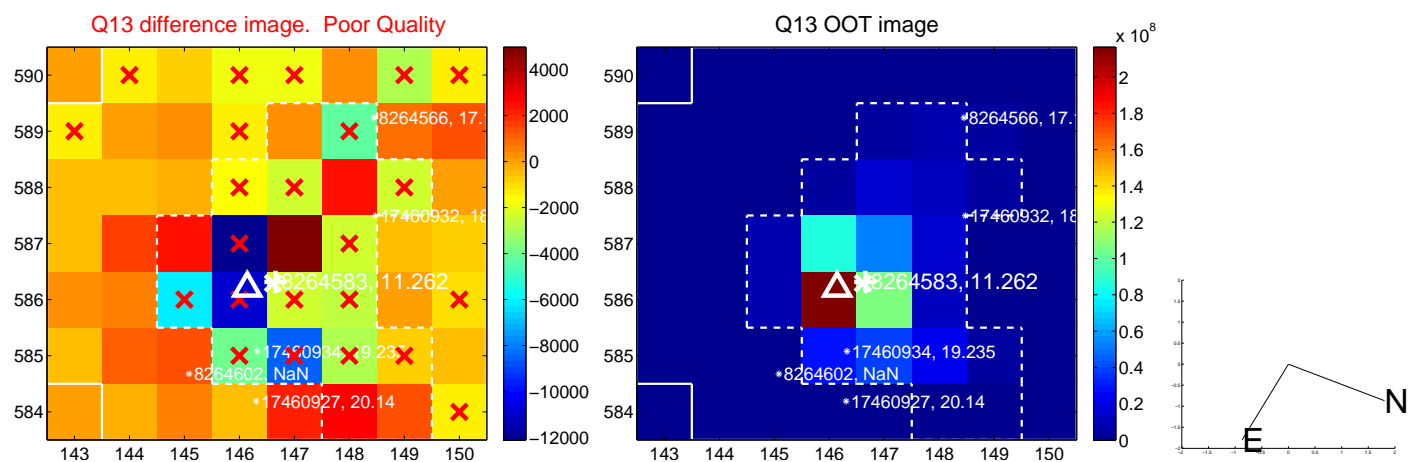
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



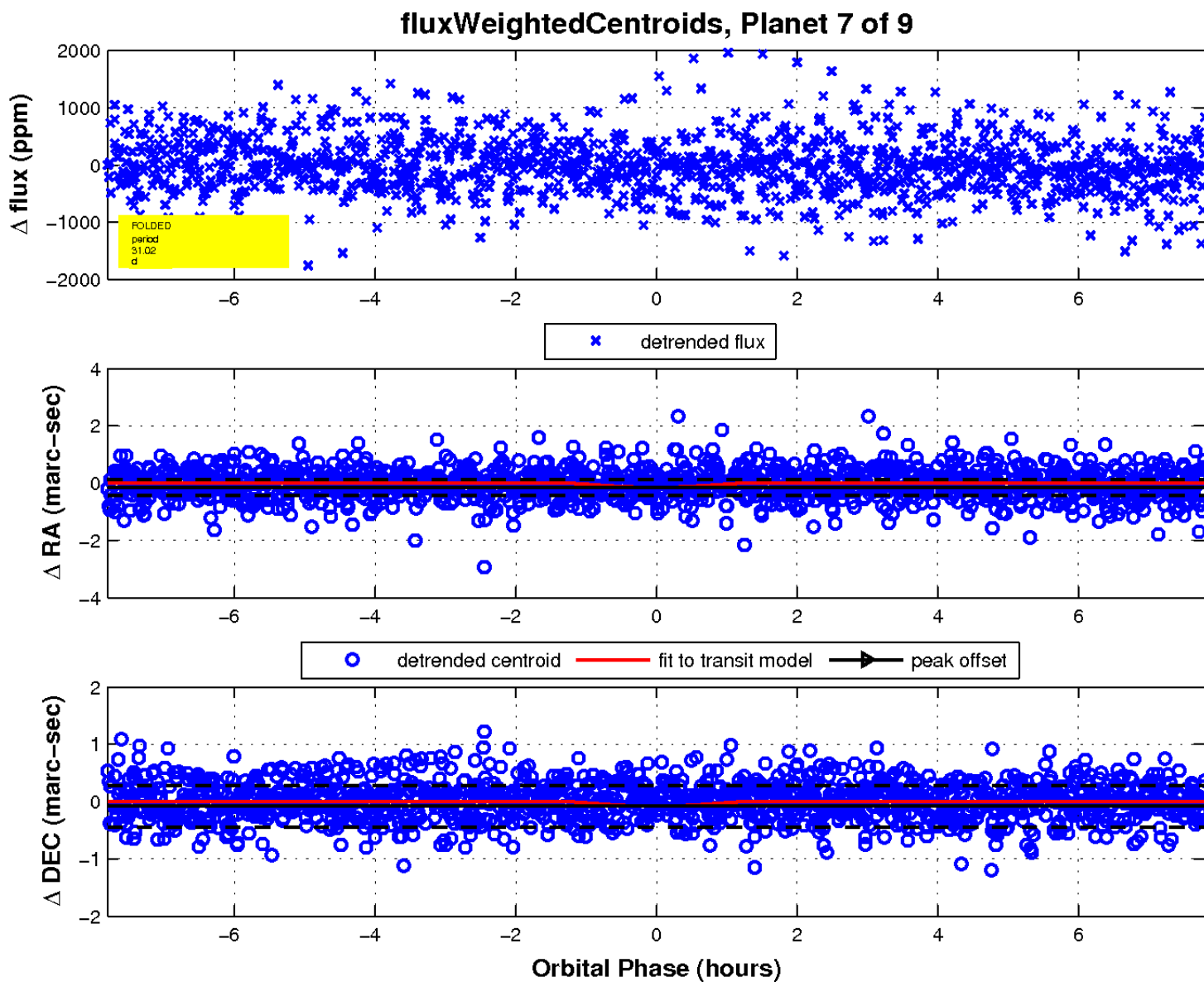
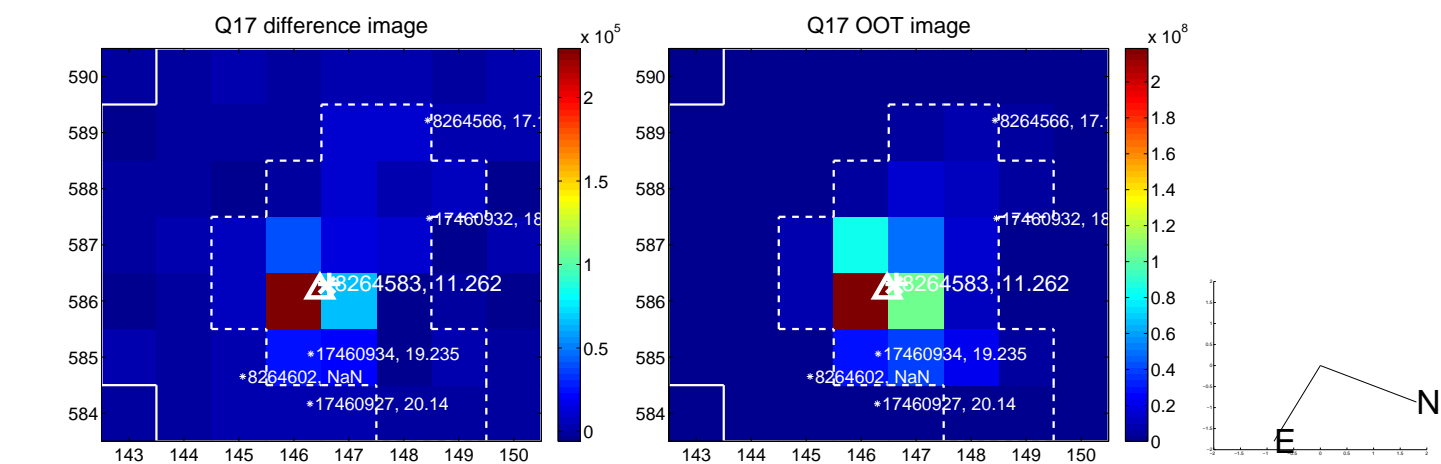
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

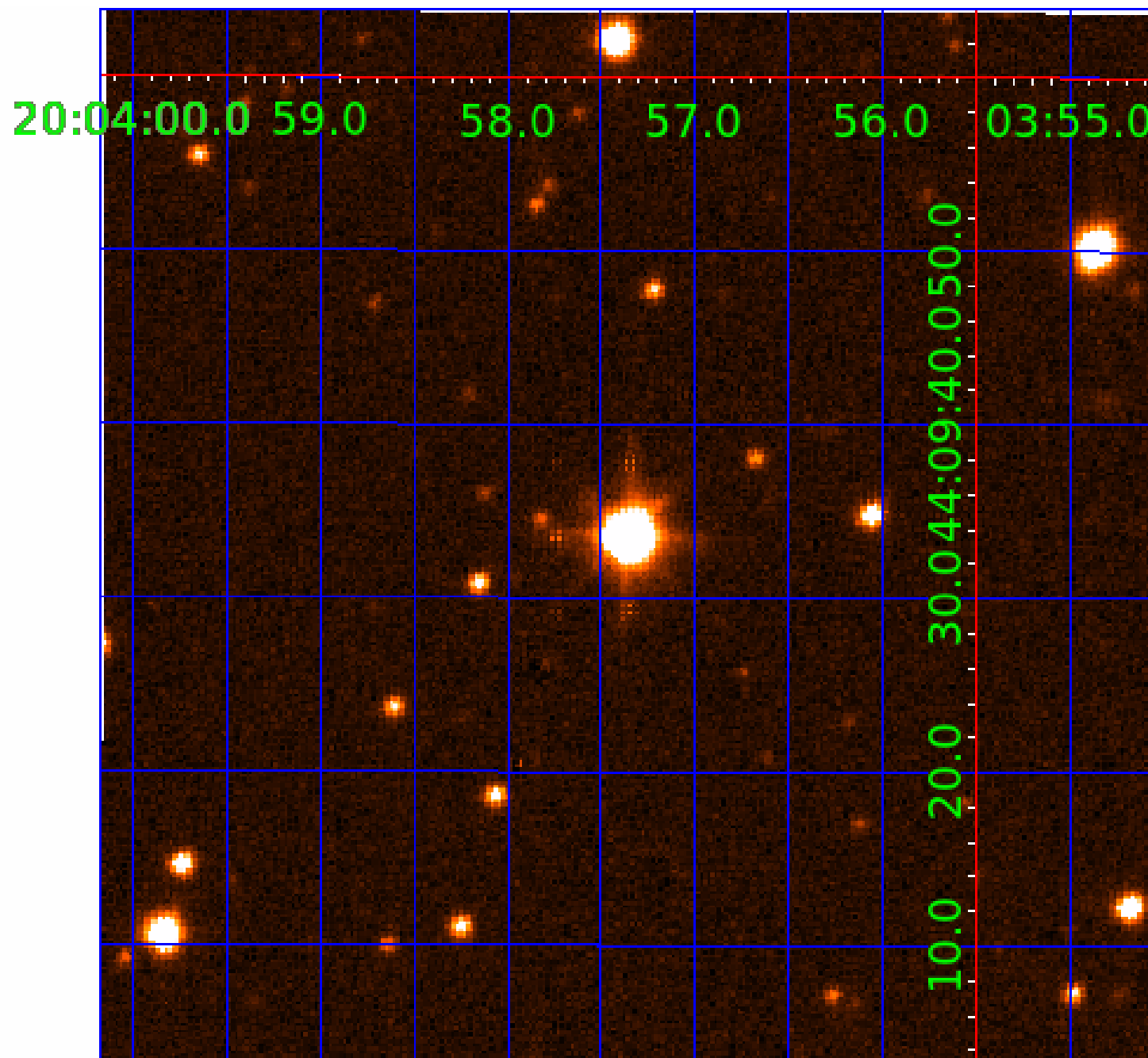


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

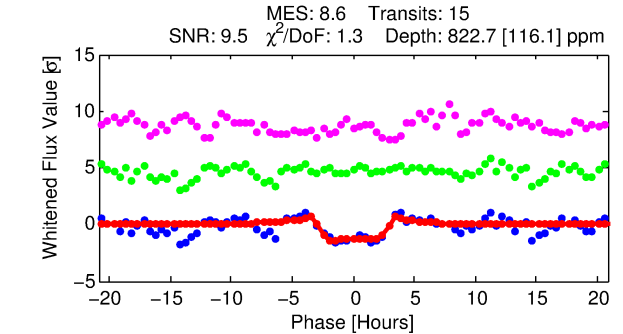
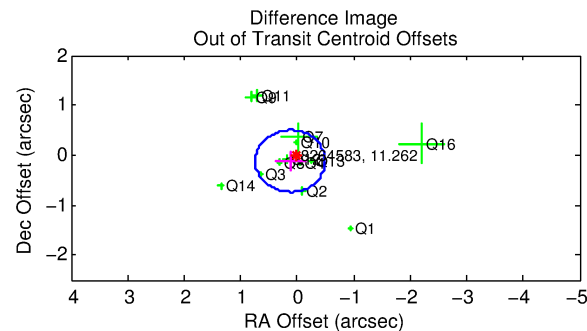
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 008264583-08

No Significant Match Found

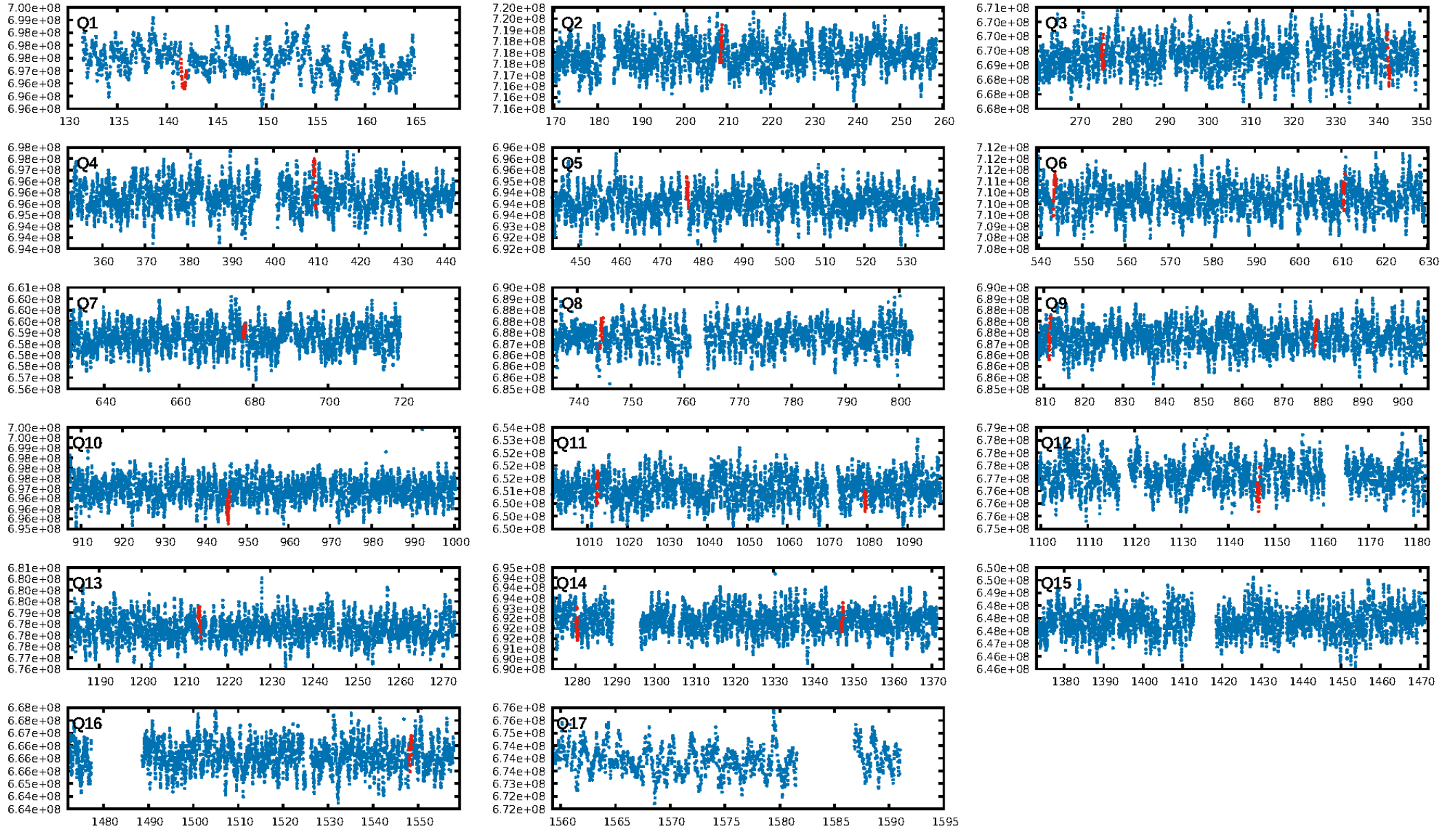
KIC: 8264583 Candidate: 8 of 9 Period: 66.984 d



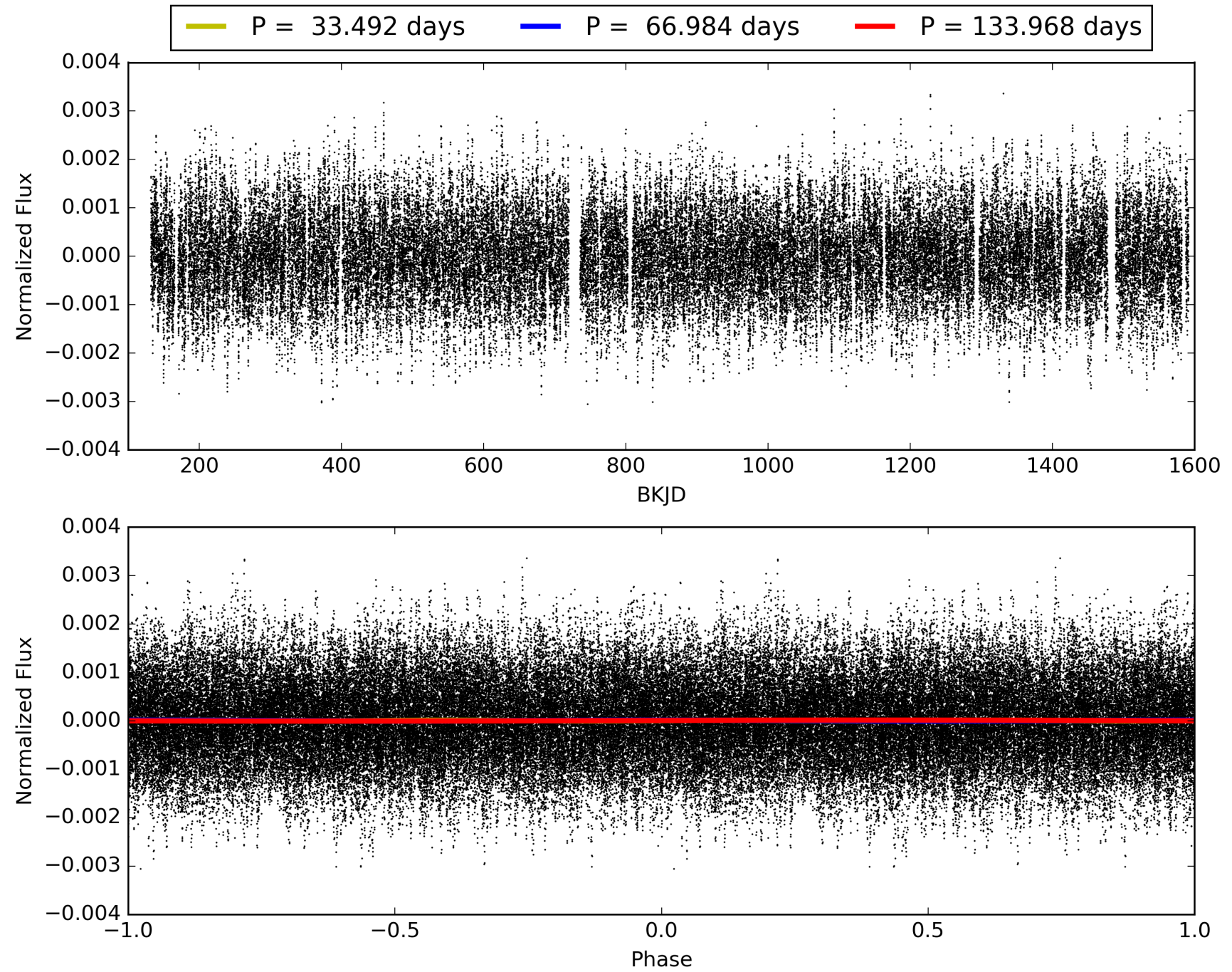
ShortPeriod-sig: 100.0% [116.33σ]
LongPeriod-sig: 100.0% [78.39σ]
ModelChiSquare2-sig: 5.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [14/14]
GhostDiagnostic-chr: 1.758

Centroid-sig: 21.9%
Centroid-so: 0.372 arcsec [3.08σ]
OotOffset-rm: 0.170 arcsec [0.82σ]
KicOffset-rm: 0.073 arcsec [0.35σ]
OotOffset-st: 3/3/4/3 [13]
KicOffset-st: 3/3/4/3 [13]
DiffImageQuality-fgm: 0.54 [7/13]
DiffImageOverlap-fno: 0.00 [0/14]

TCE 008264583-08, PDC Light Curves

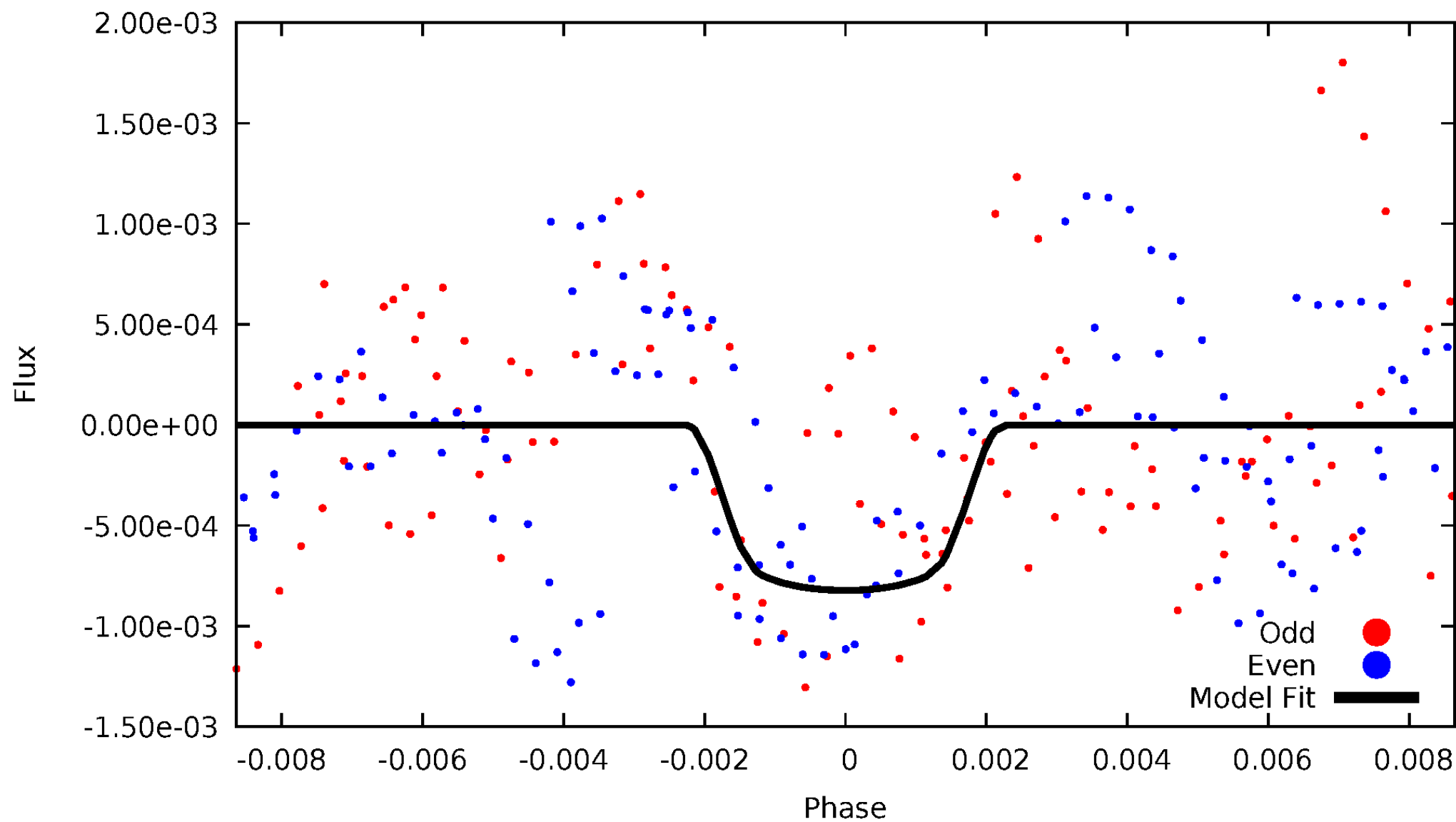


TCE 008264583-08



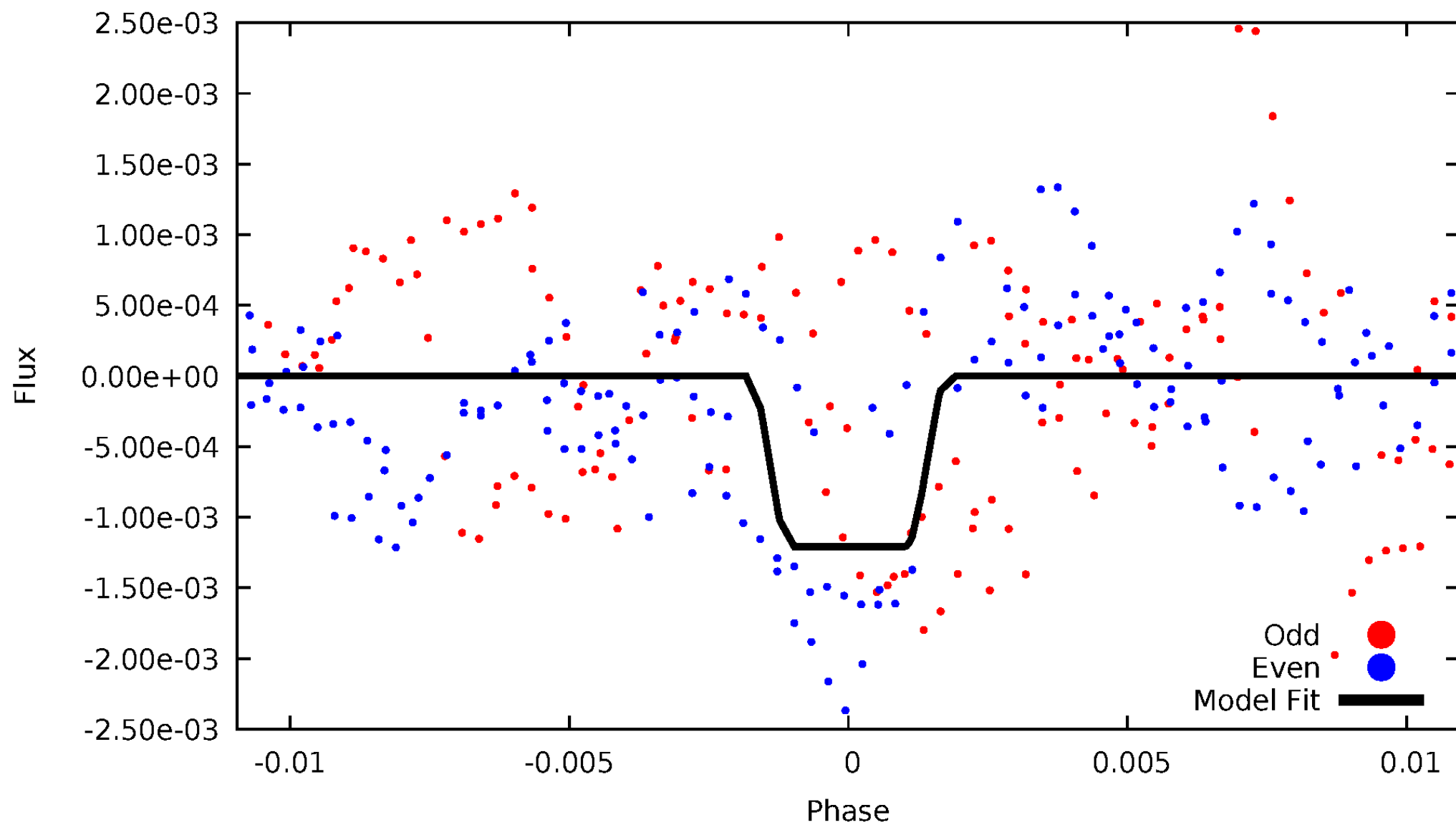
DV Odd/Even

TCE 008264583-08



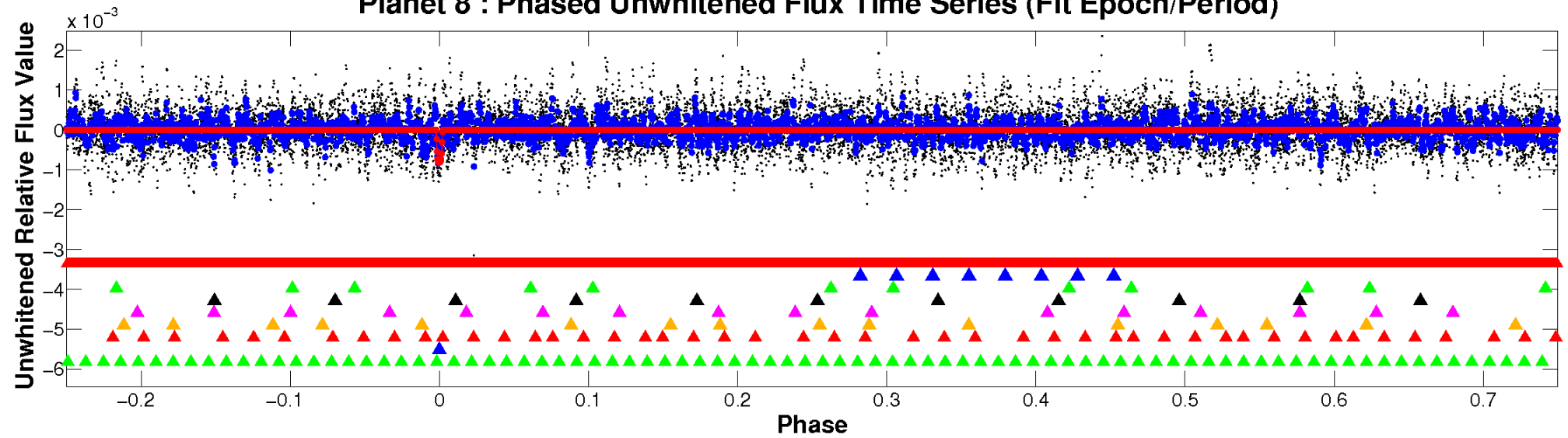
ALT Odd/Even

TCE 008264583-08

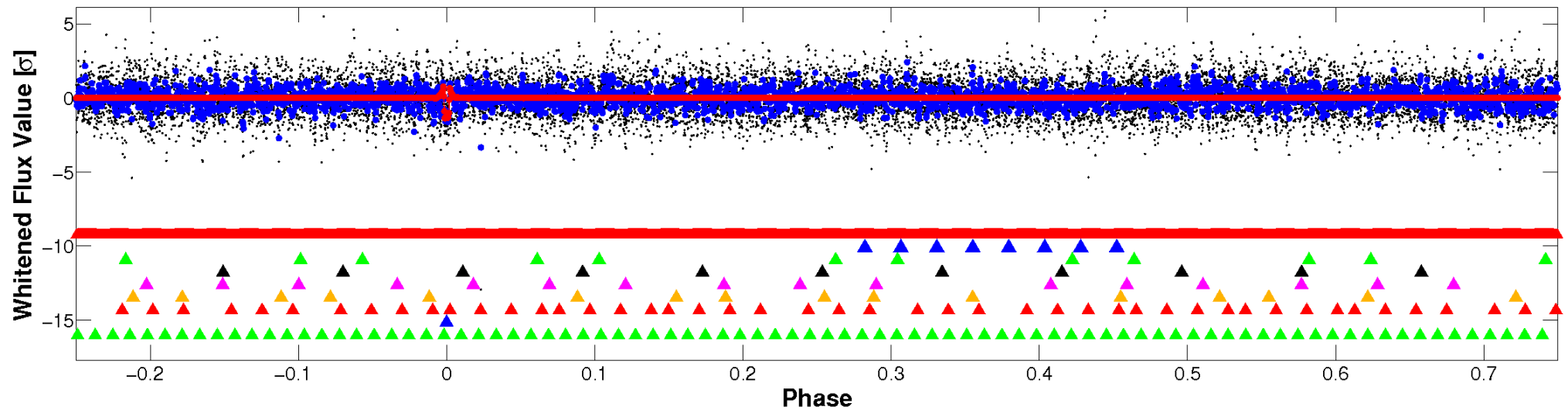


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

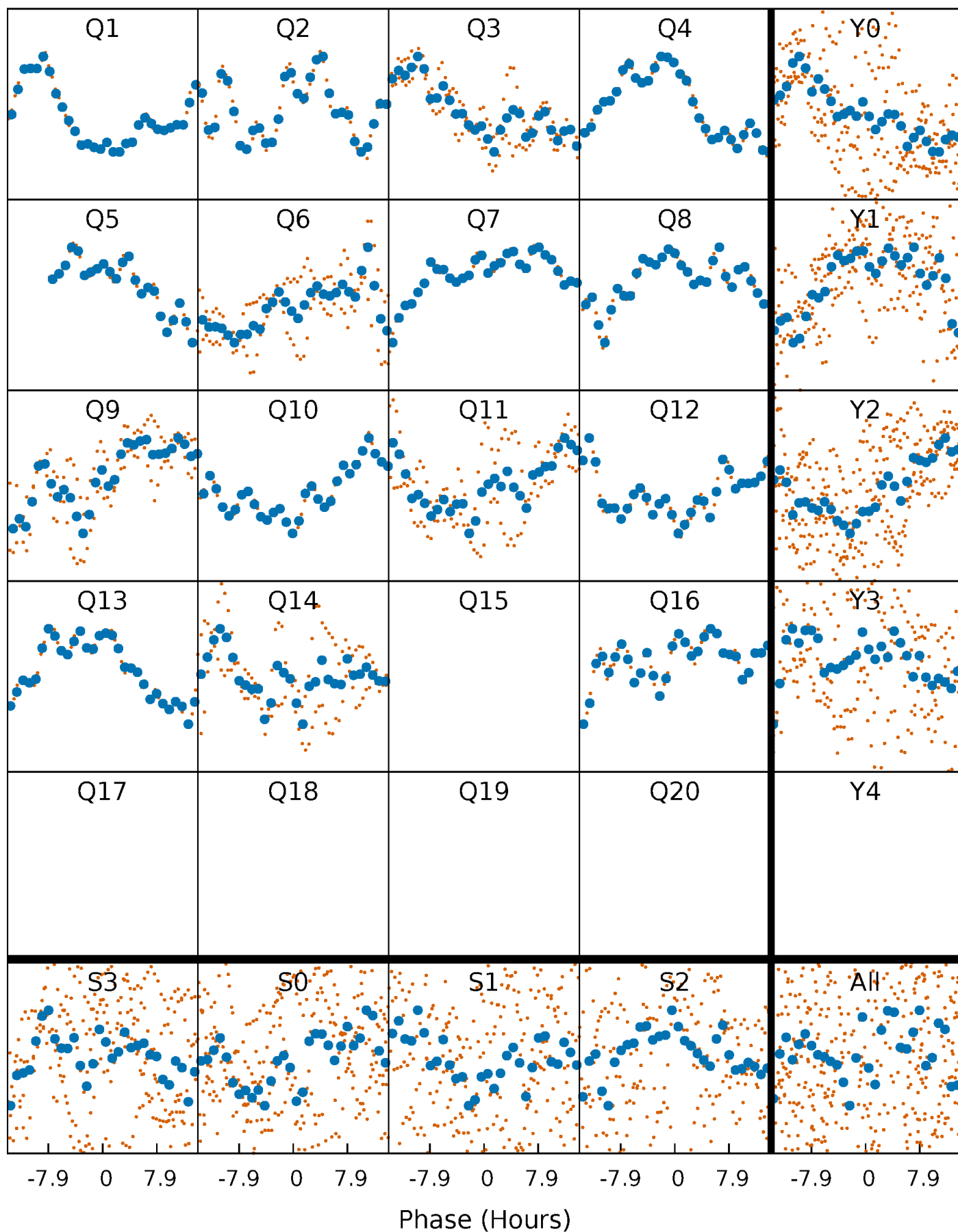


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



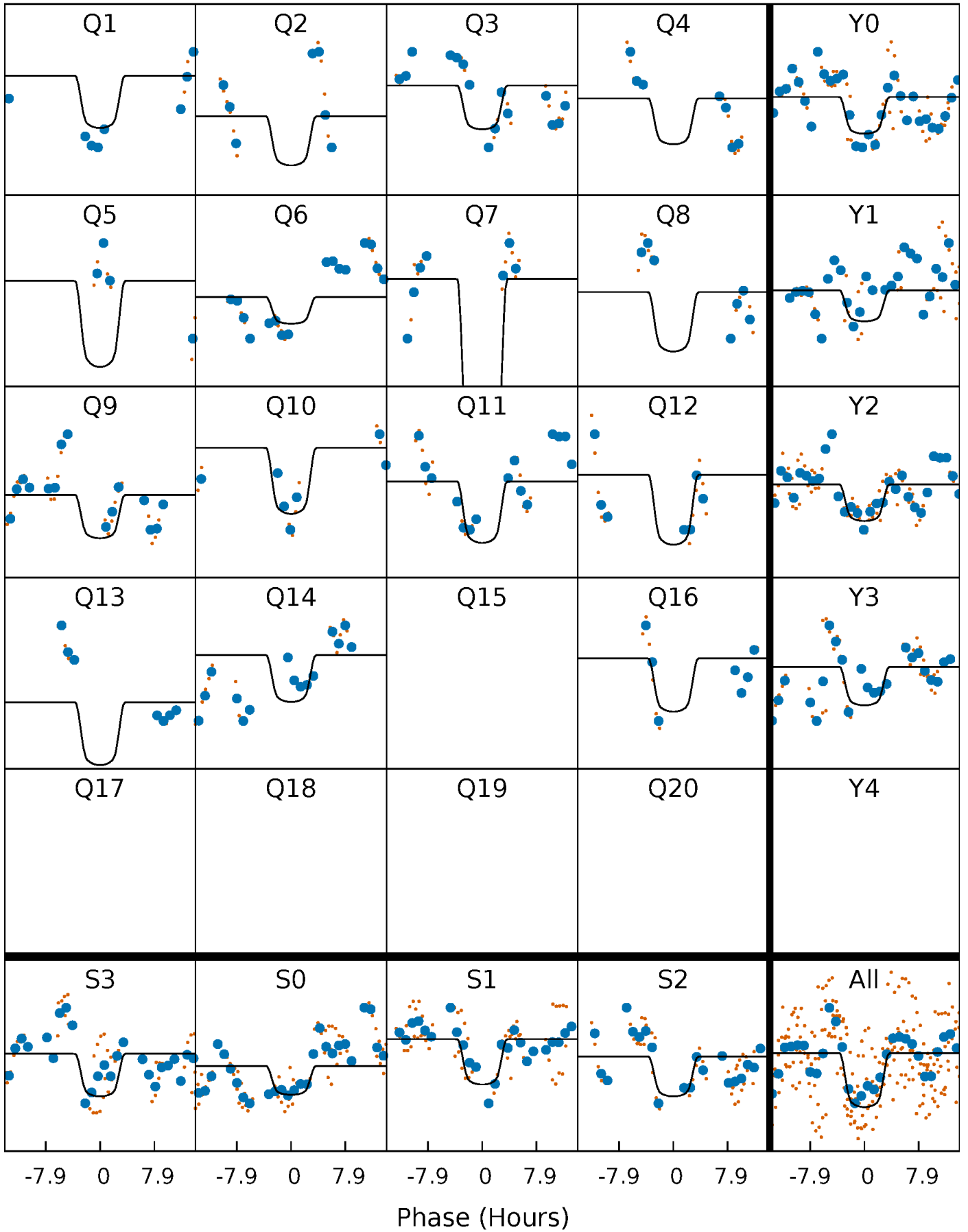
PDC Quarter-Phased Transit Curves

TCE 008264583-08 $P = 66.984204$ Days $T_0 = 141.687933$ (BKJD)



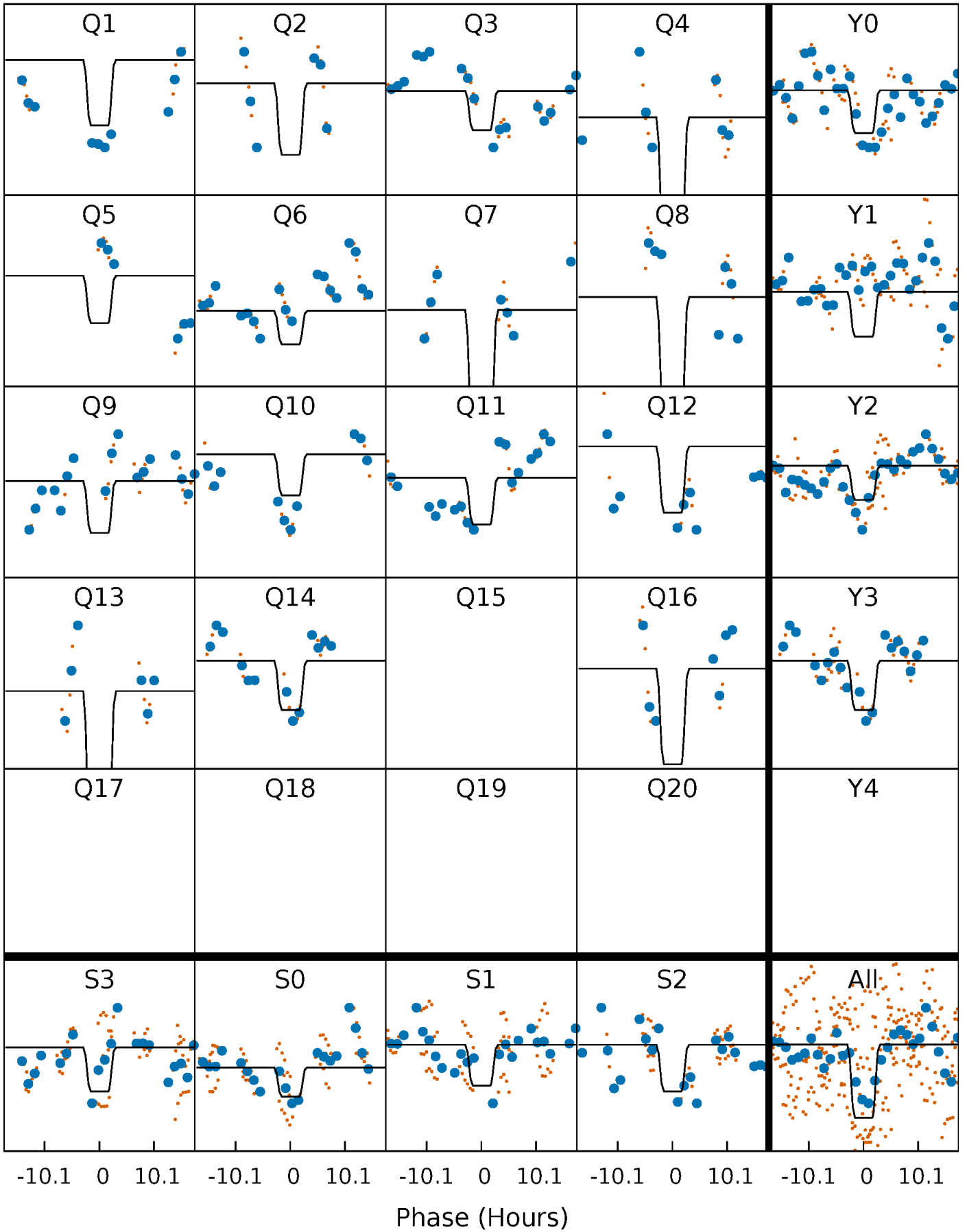
DV Quarter-Phased Transit Curves

TCE 008264583-08 P= 66.984204 Days $T_0=141.687933$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

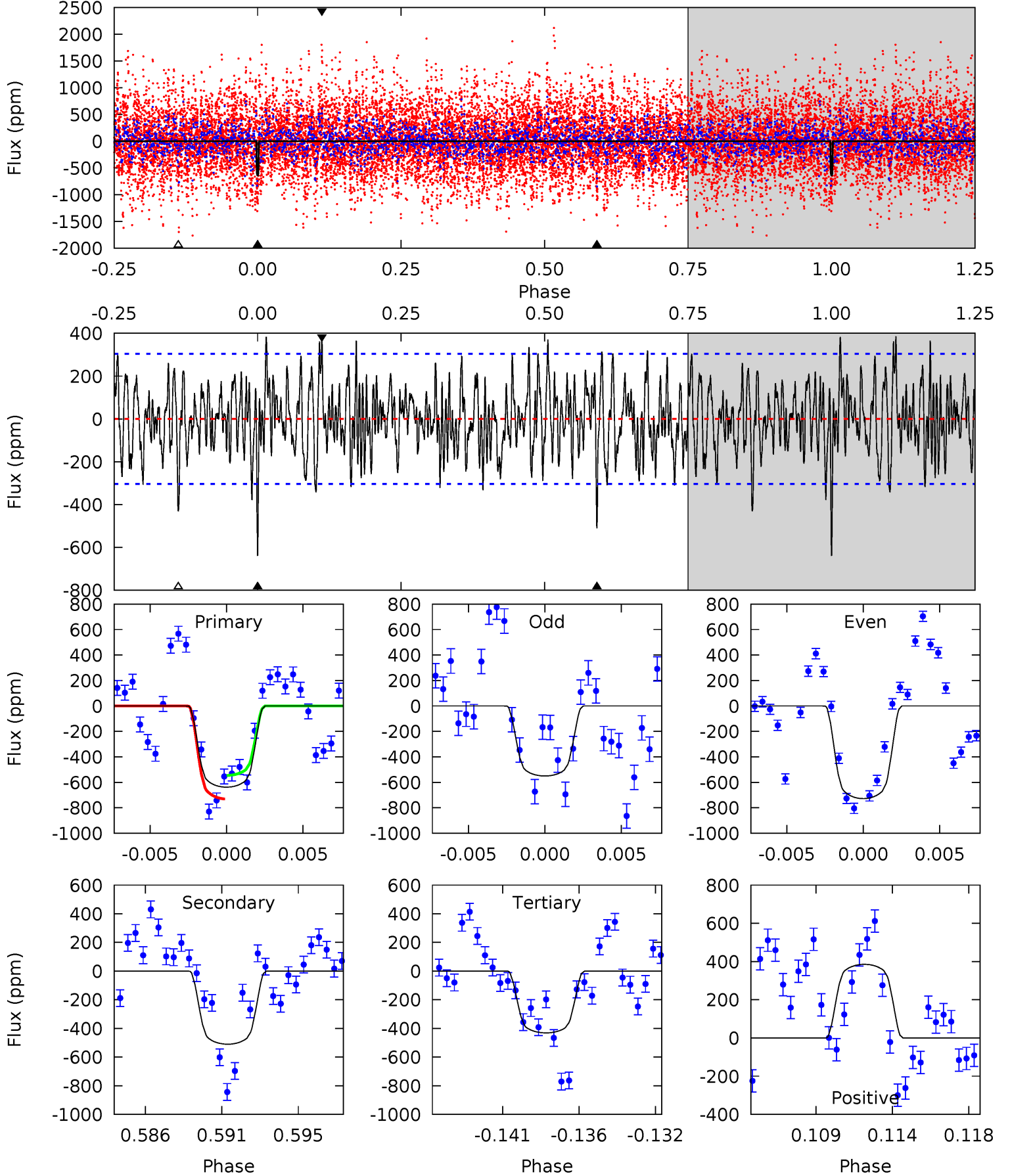
TCE 008264583-08 P= 66.989902 Days $T_0=141.631851$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-08, P = 66.984204 Days, E = 74.703729 Days

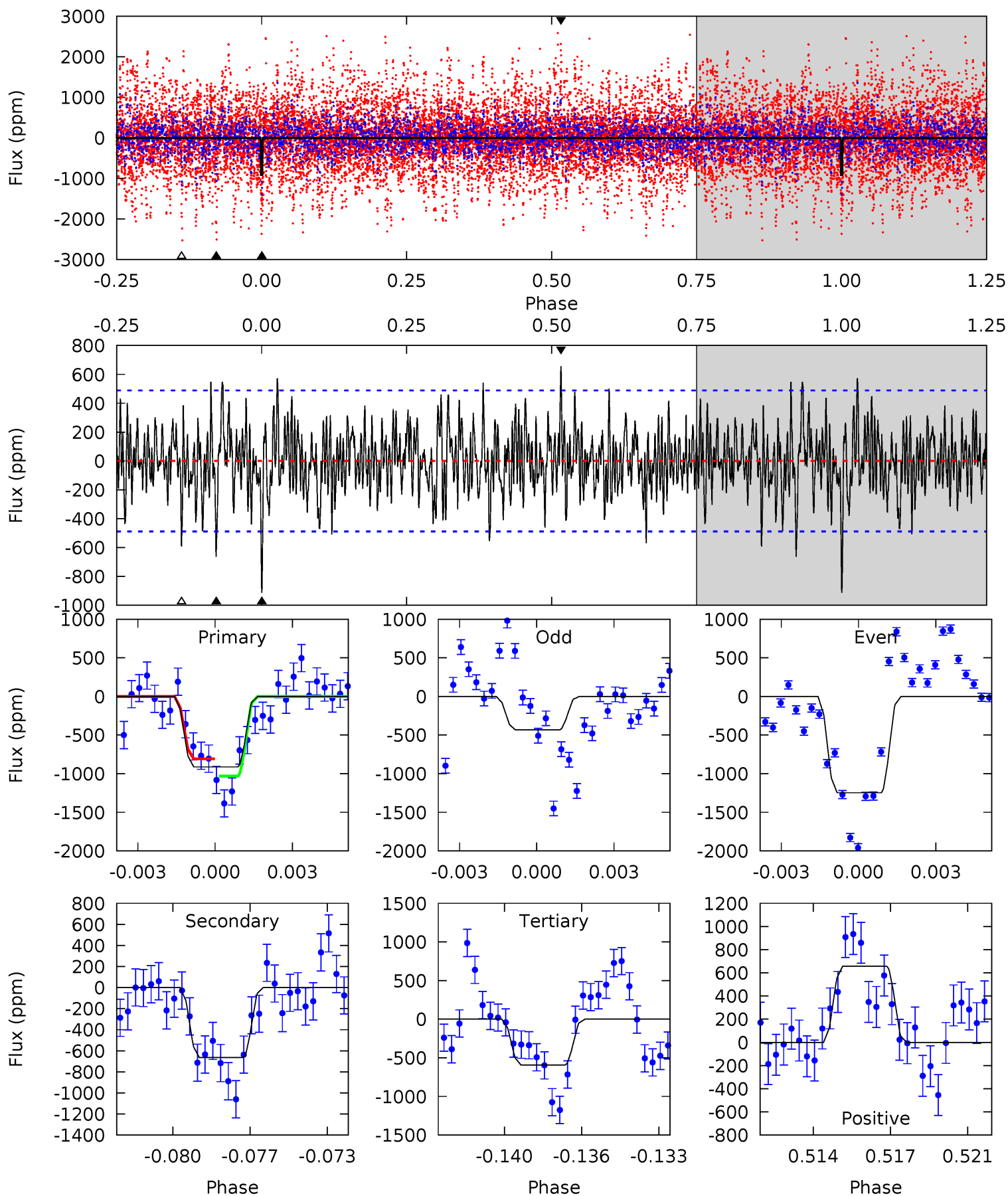
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.9	8.69	7.35	6.57	5.18	2.84	2.33	3.52	4.30	1.35	2.13	1.51	0.69	0.38	1.57



Alt Model-Shift Uniqueness Test

008264583-08, P = 66.989902 Days, E = 74.641949 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.76	7.09	6.34	7.02	5.22	2.92	1.99	3.42	2.74	0.75	0.07	4.37	0.77	0.42	1.20



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-510 ± 59	$7.60^{+1.04}_{-1.10}$	1080^{+55}_{-61}	6068^{+359}_{-293}	710^{+281}_{-183}
Alt.	-663 ± 93	$8.32^{+1.15}_{-1.16}$	1072^{+55}_{-62}	6158^{+365}_{-360}	758^{+277}_{-197}

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 $A_{obs} \gg 1.0$

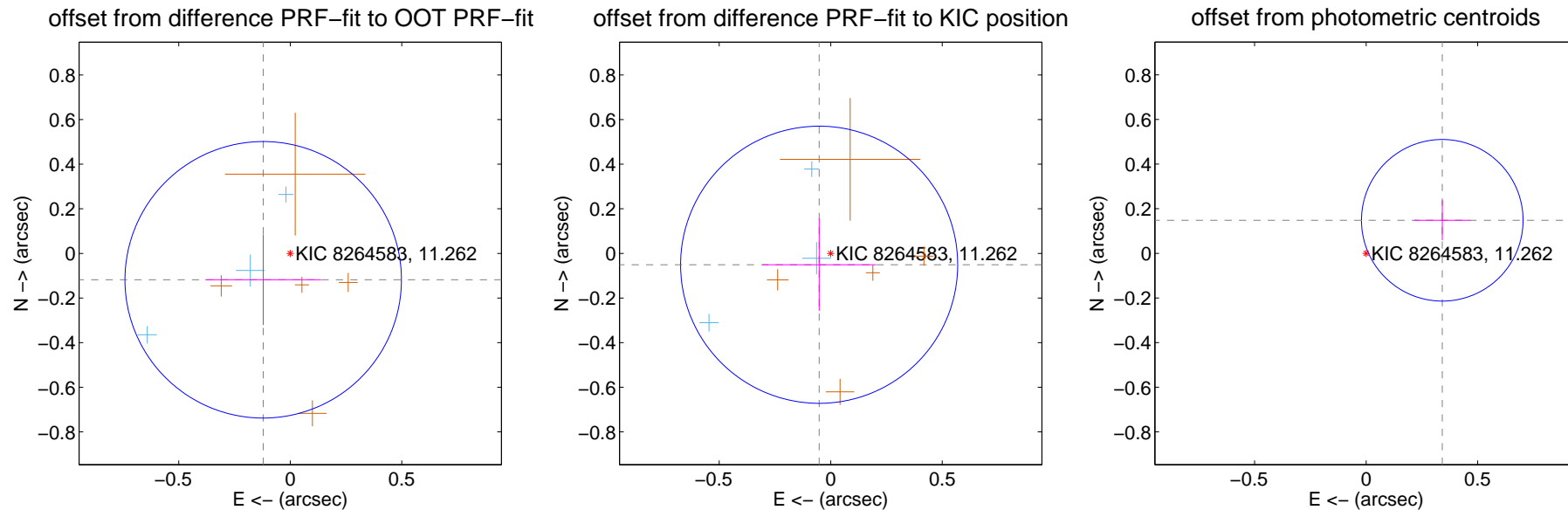
DV Centroid Data

Supplemental centroid analysis for 008264583-08. **Kepler magnitude: 11.26.** Transit SNR 9.51

There are 7 quarters with good PRF difference image offsets

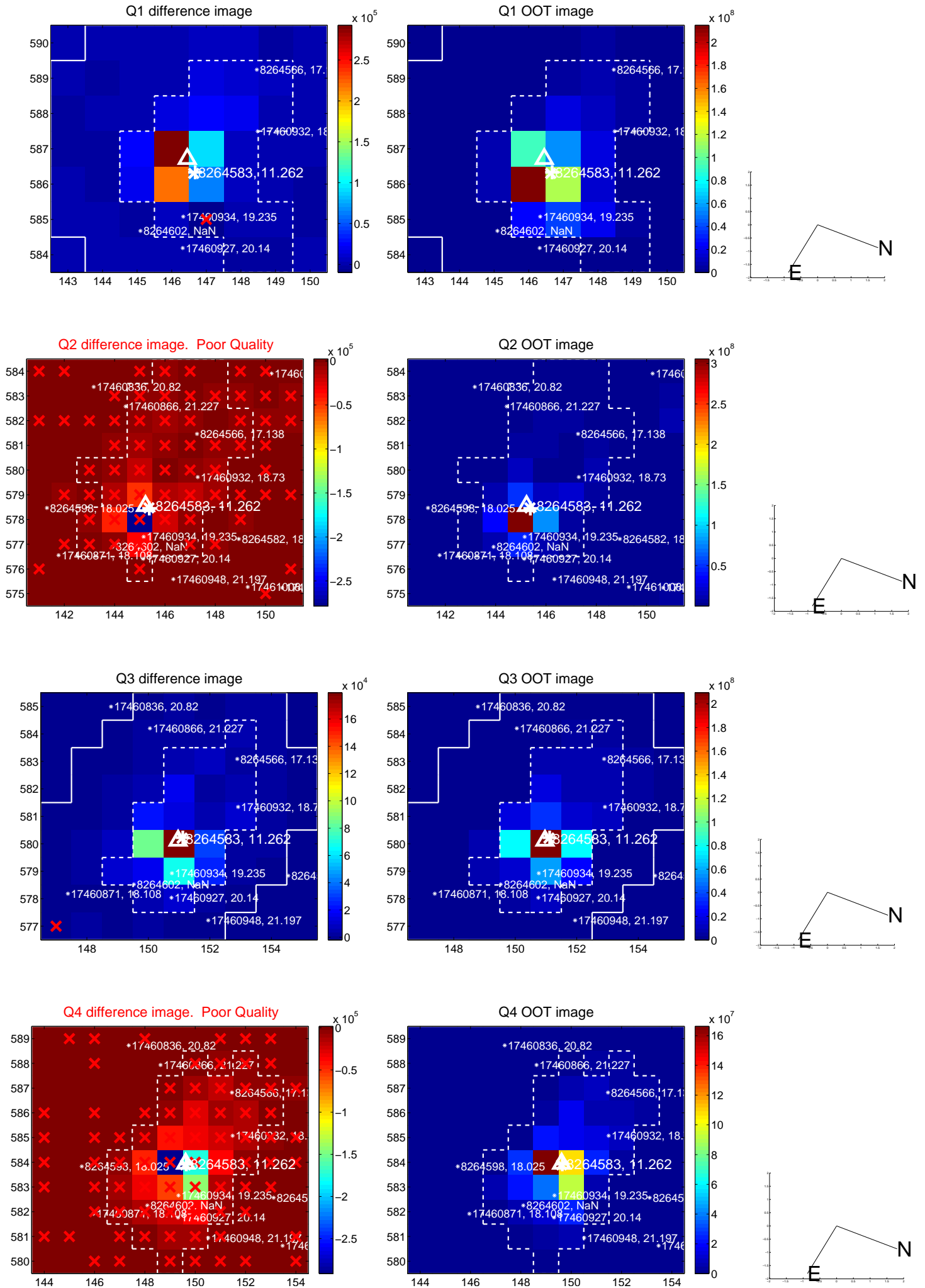
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.170 ± 0.207	0.82	0.121 ± 0.260	-0.118 ± 0.203
PRF-fit source offset from KIC position	0.073 ± 0.207	0.35	0.052 ± 0.254	-0.051 ± 0.206
photometric centroid source offset	0.37 ± 0.12	3.08	-0.34 ± 0.13	0.15 ± 0.09

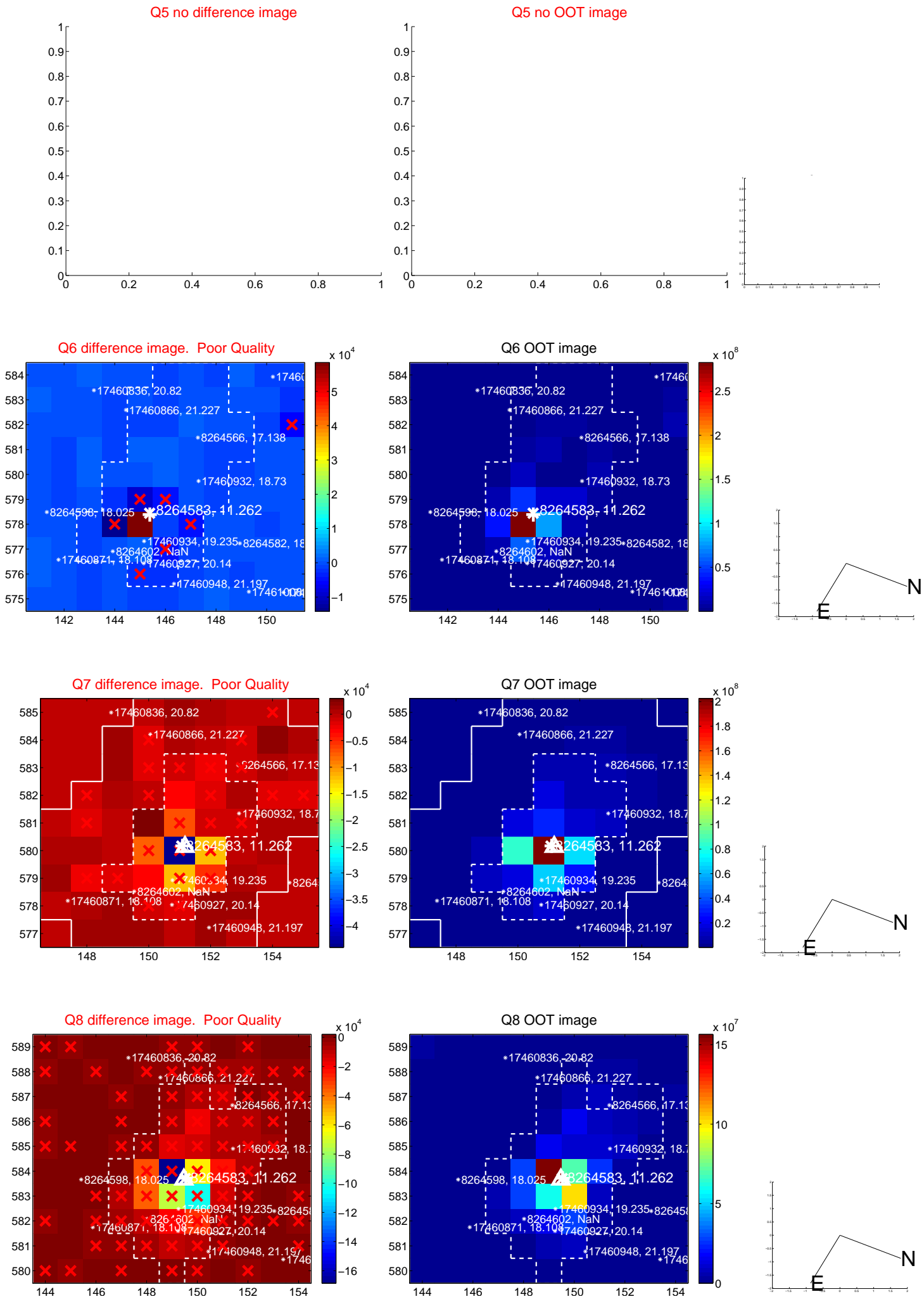


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

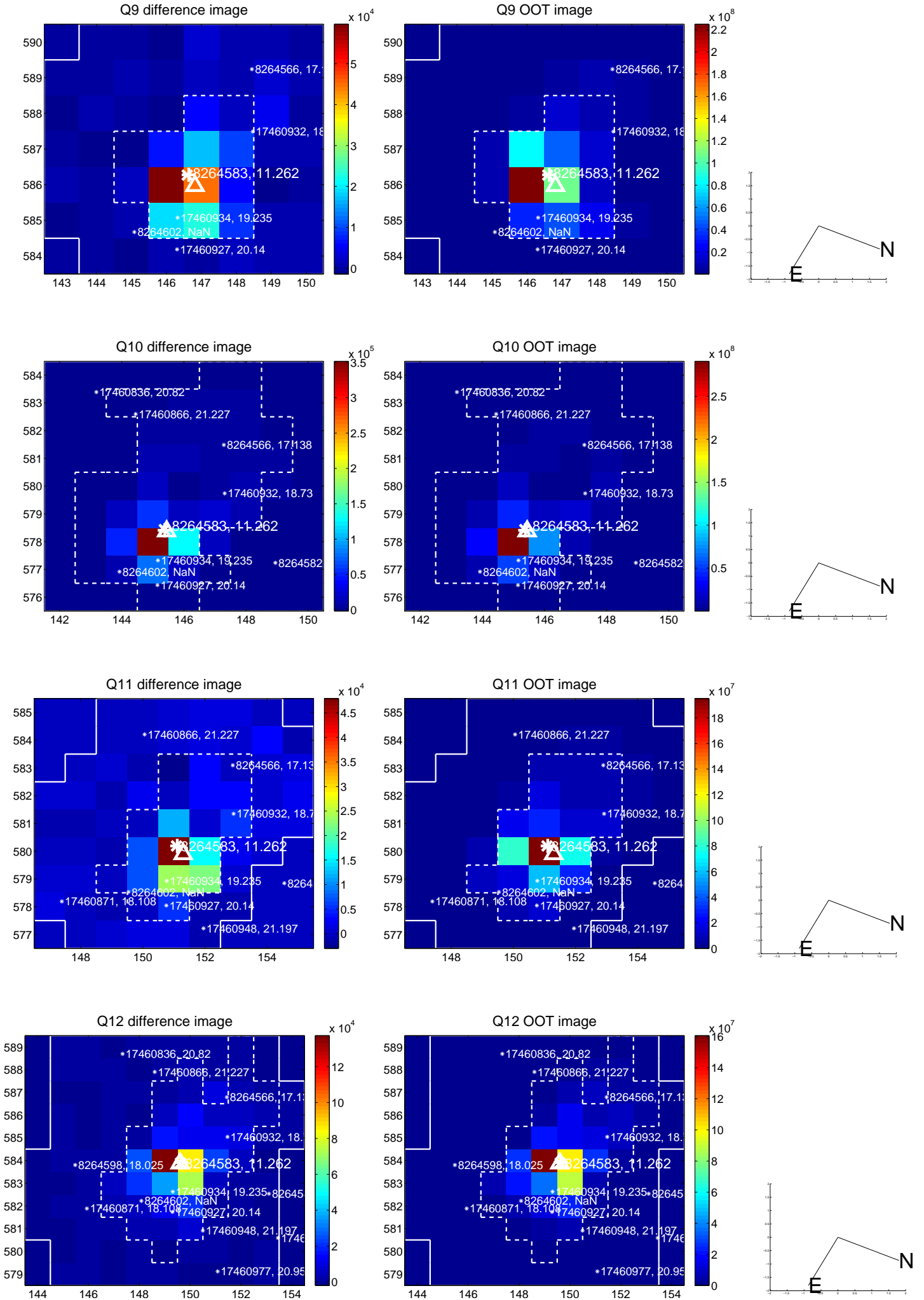
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



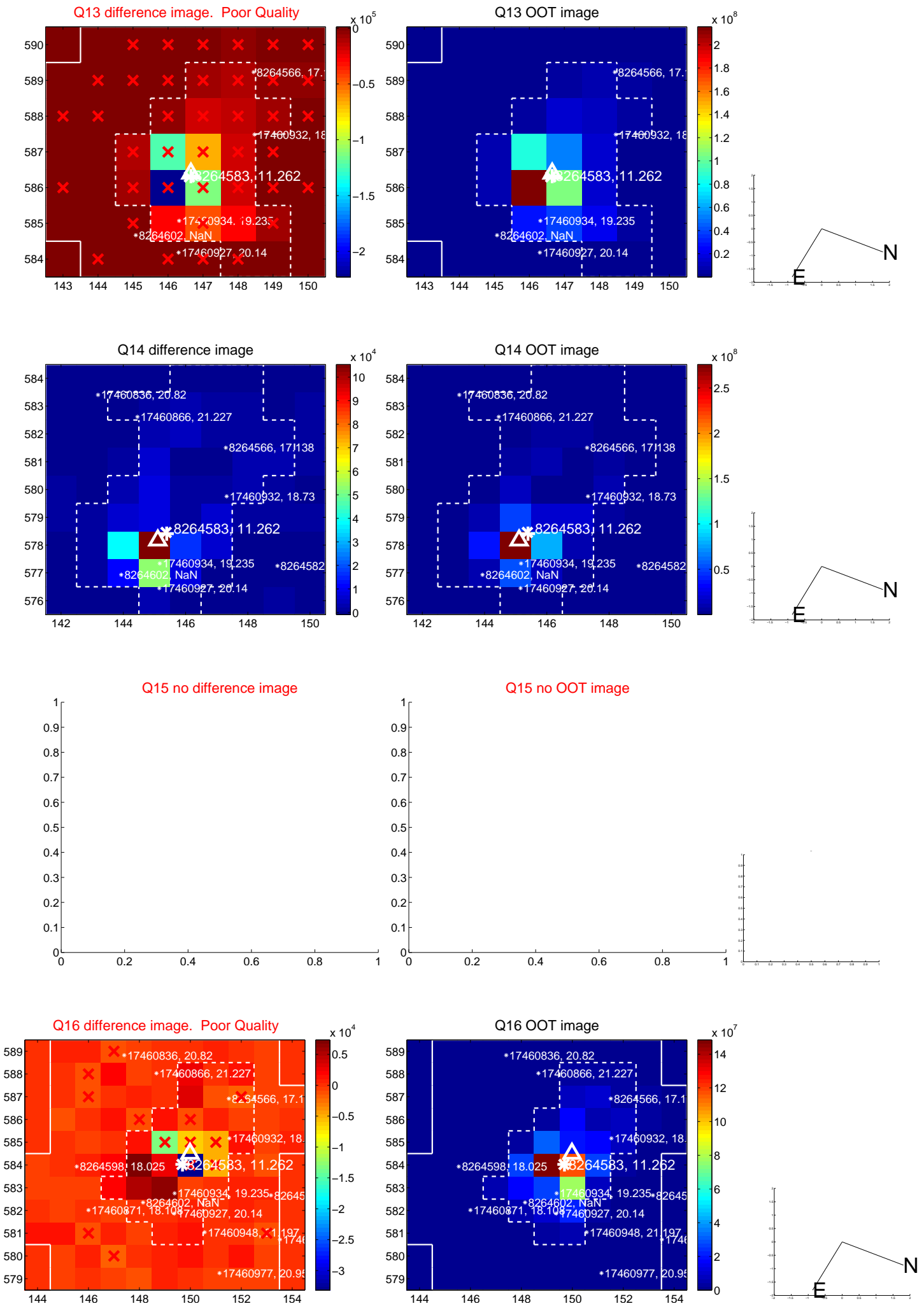
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



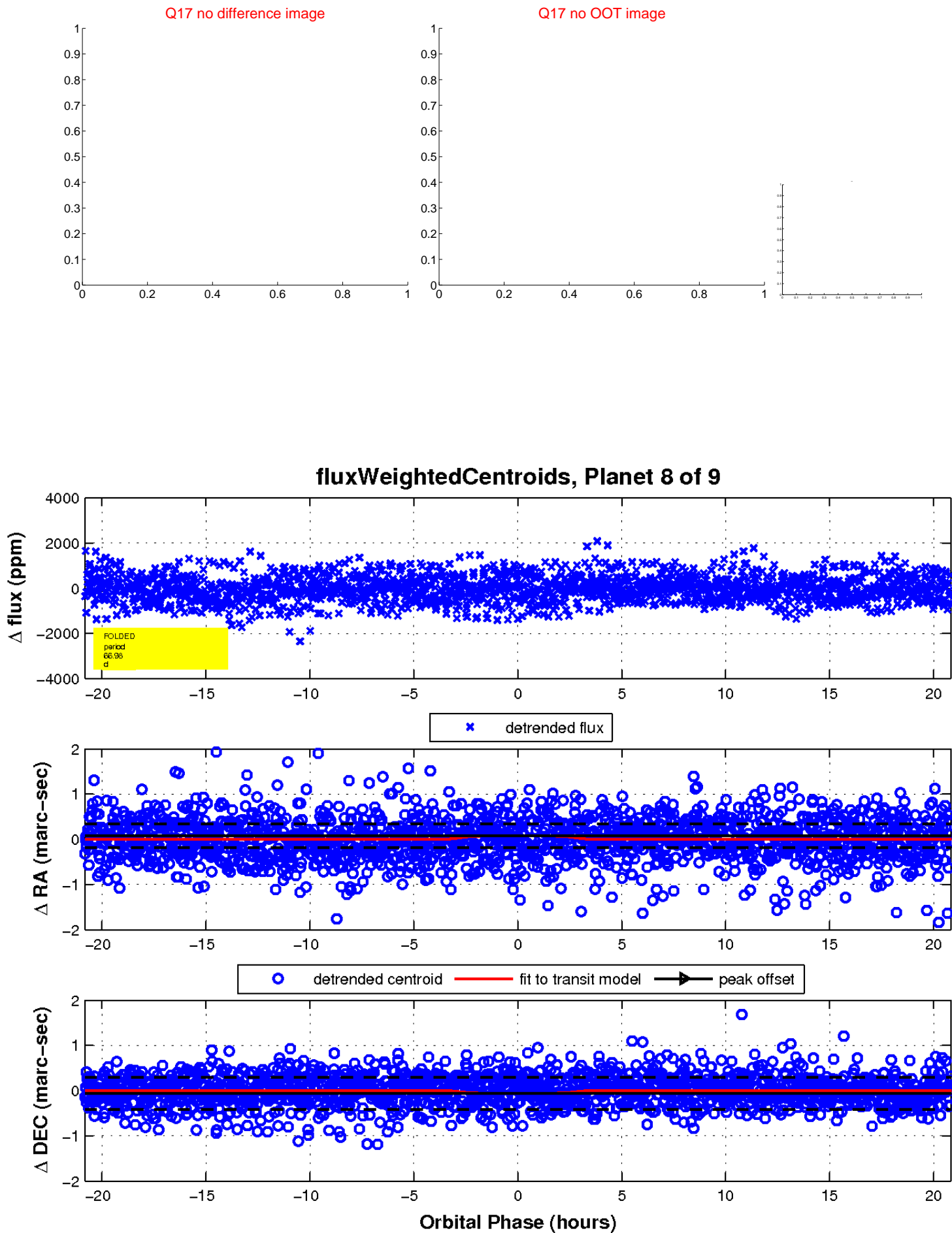
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

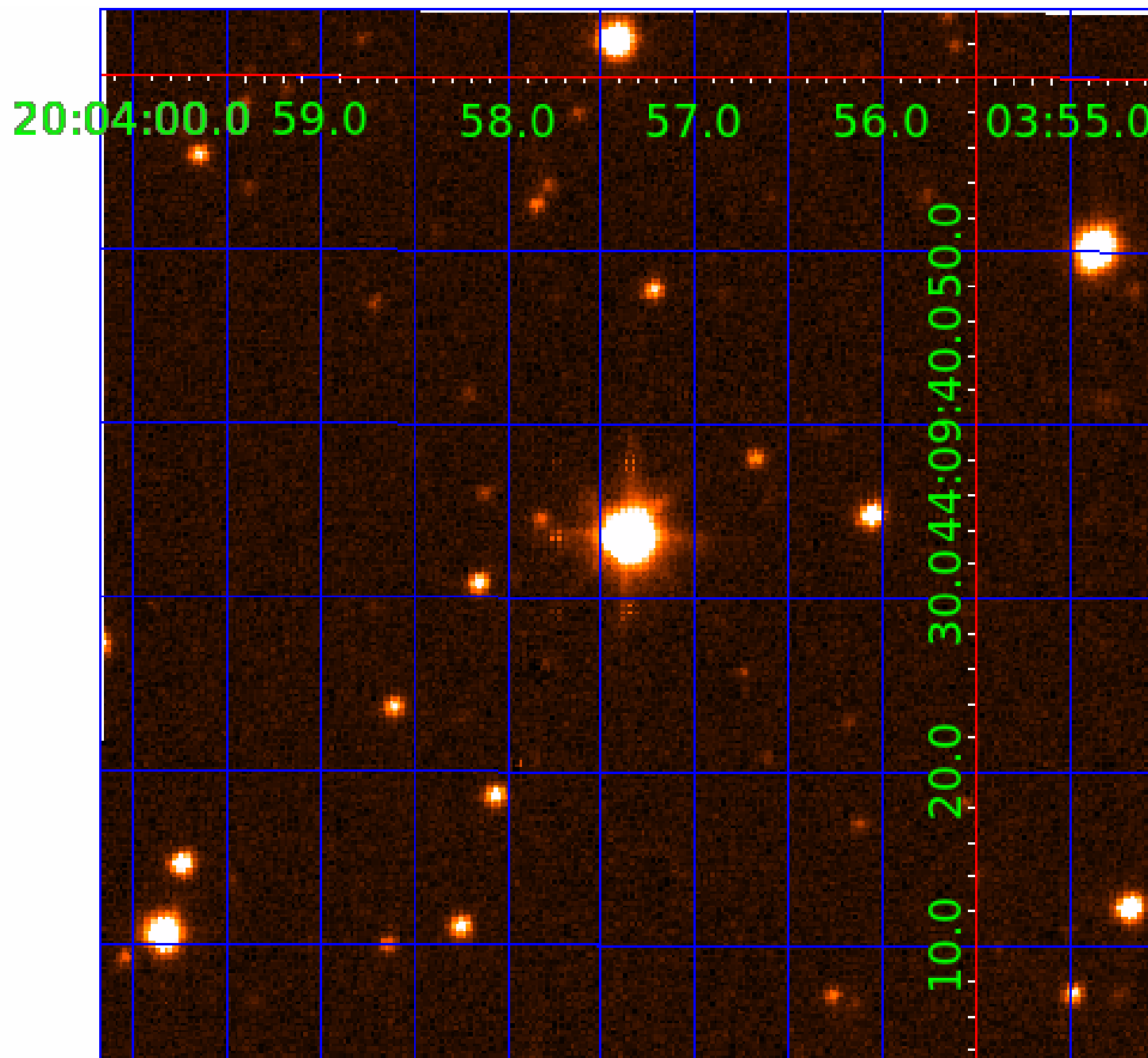


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



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})
008264583-01	OBS	No	0.584612	131.999419	0.0	3.455	9.1	0.0	2.23	7242	0.02	47080.17
008264583-02	OBS	No	202.578749	160.599171	1324.6	3.390	13.4	10.3	2.23	7242	8.70	19.34
008264583-03	OBS	No	123.270181	145.785453	1115.5	3.054	9.8	10.0	2.23	7242	11.37	37.51
008264583-04	OBS	No	128.551444	252.740234	1050.4	3.655	9.2	8.5	2.23	7242	13.00	35.47
008264583-05	OBS	No	93.089825	149.776631	930.7	3.152	9.3	8.3	2.23	7242	10.50	54.55
008264583-06	OBS	No	91.544243	194.500210	1035.8	2.876	8.9	8.6	2.23	7242	9.01	55.78
008264583-07	OBS	No	31.022375	151.719745	699.2	2.604	9.5	9.1	2.23	7242	10.85	236.10
008264583-08	OBS	No	66.984204	141.687933	822.7	6.948	8.6	9.5	2.23	7242	7.63	84.60
008264583-09	OBS	No	17.336782	132.120369	130.8	2.500	8.8	-1.0	2.23	7242	2.59	512.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008264583-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_SKYE—TRANS_GAPPED—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_SATURATED
008264583-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED—HALO_GHOST
008264583-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_SATURATED
008264583-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED
008264583-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

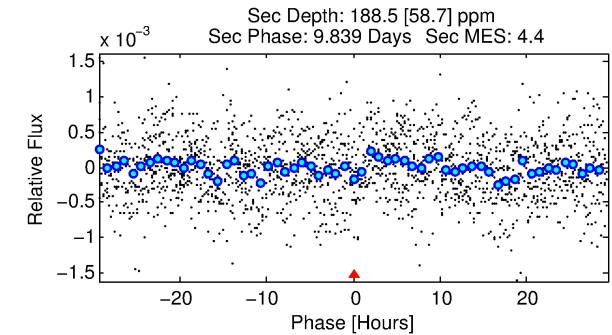
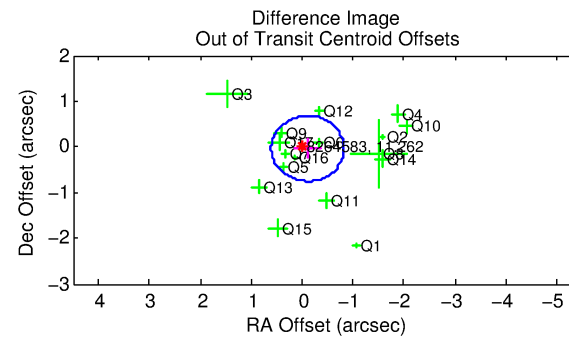
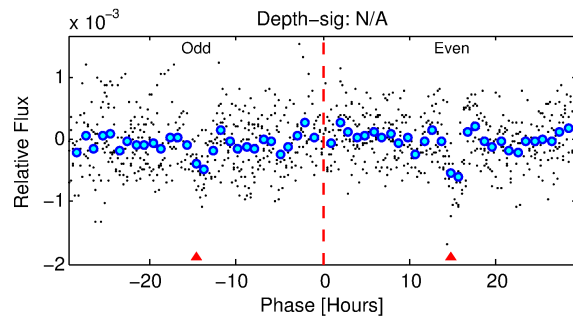
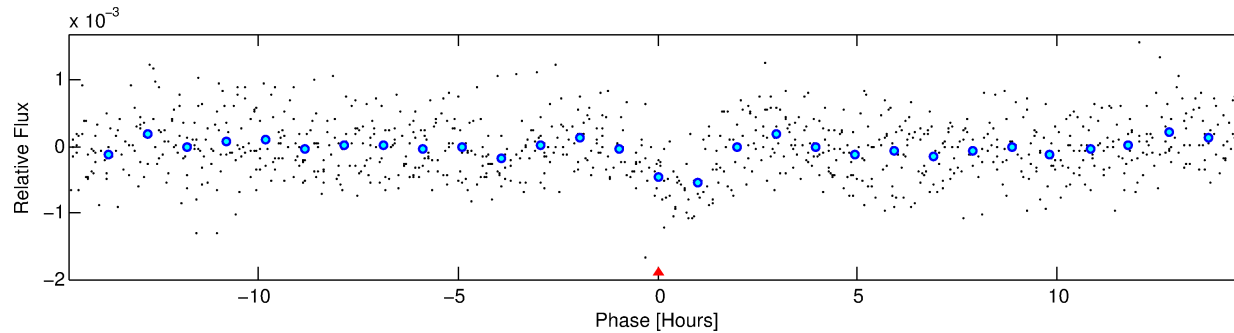
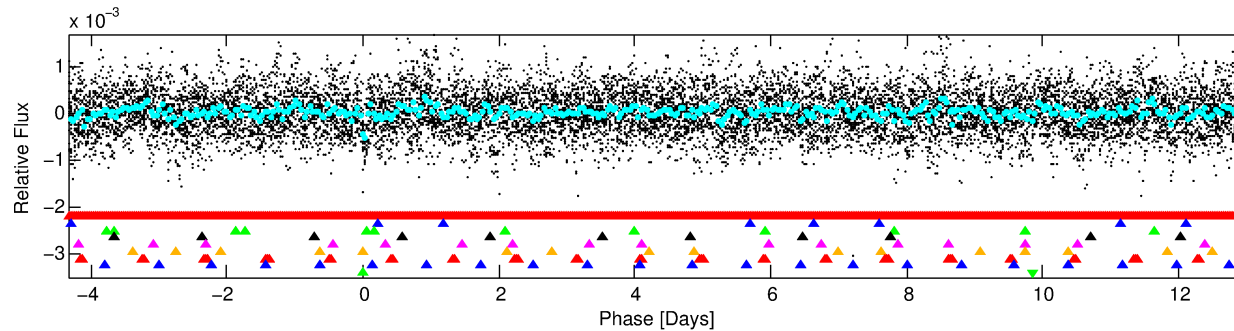
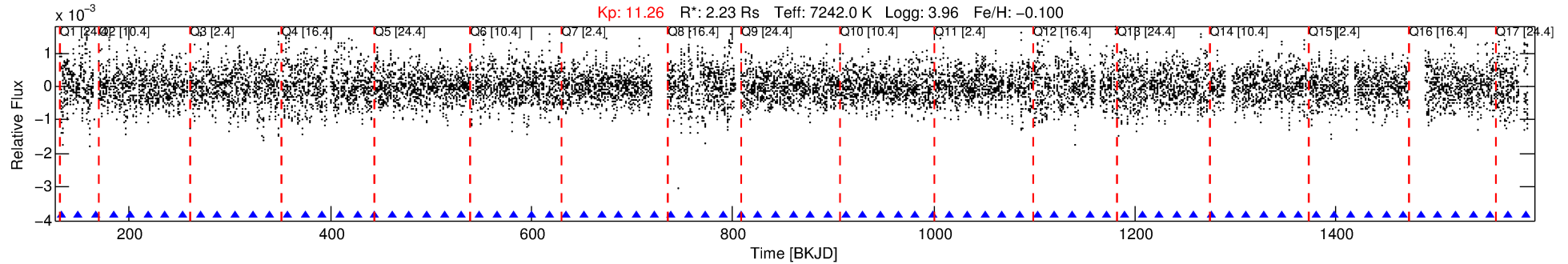
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008264583-09

No Significant Match Found

DV One-Page Summary

KIC: 8264583 Candidate: 9 of 9 Period: 17.337 d



TPS TCE Results:

Period = 17.33678 d
Epoch = 132.1204 BKJD

DV fit results are unavailable

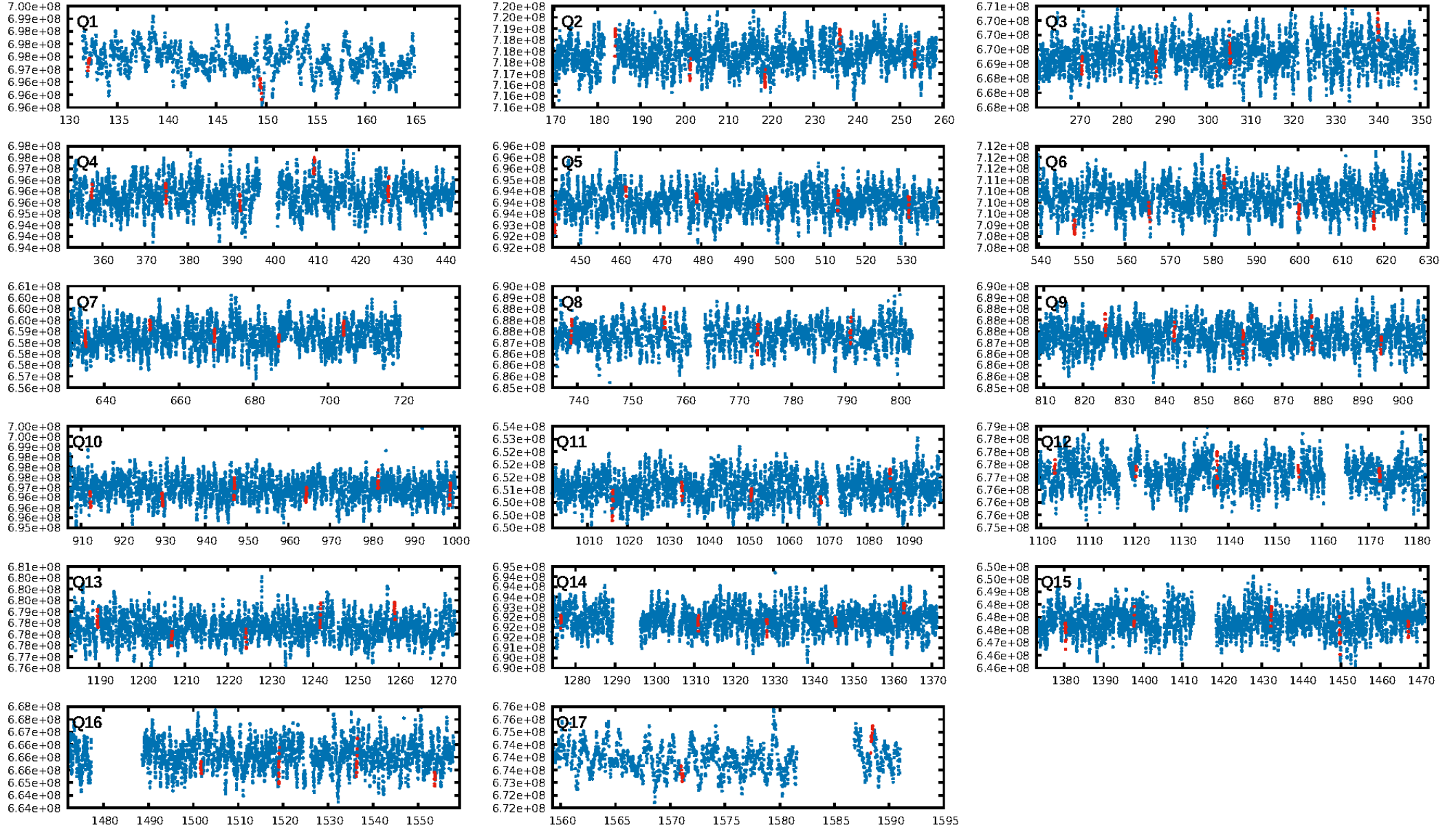
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [94.28 σ]
LongPeriod-sig: 100.0% [91.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [41/41]
GhostDiagnostic-chr: 1.112
Centroid-sig: 41.0%
Centroid-so: 0.346 arcsec [3.86 σ]
OotOffset-rm: 0.115 arcsec [0.48 σ]
KicOffset-rm: 0.160 arcsec [0.61 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
DiffImageOverlap-fno: 0.00 [0/17]

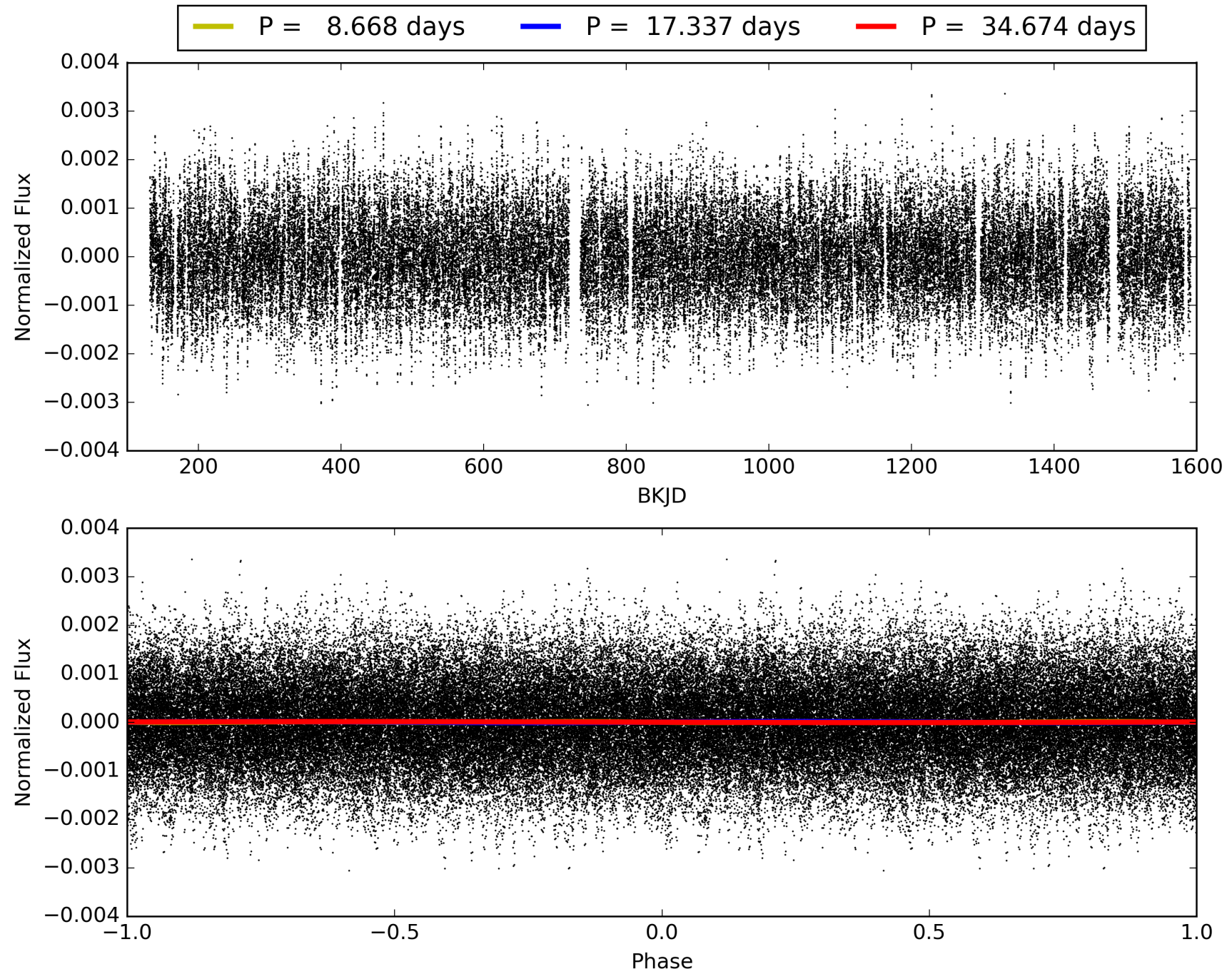
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 05:45:11 Z

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

TCE 008264583-09, PDC Light Curves

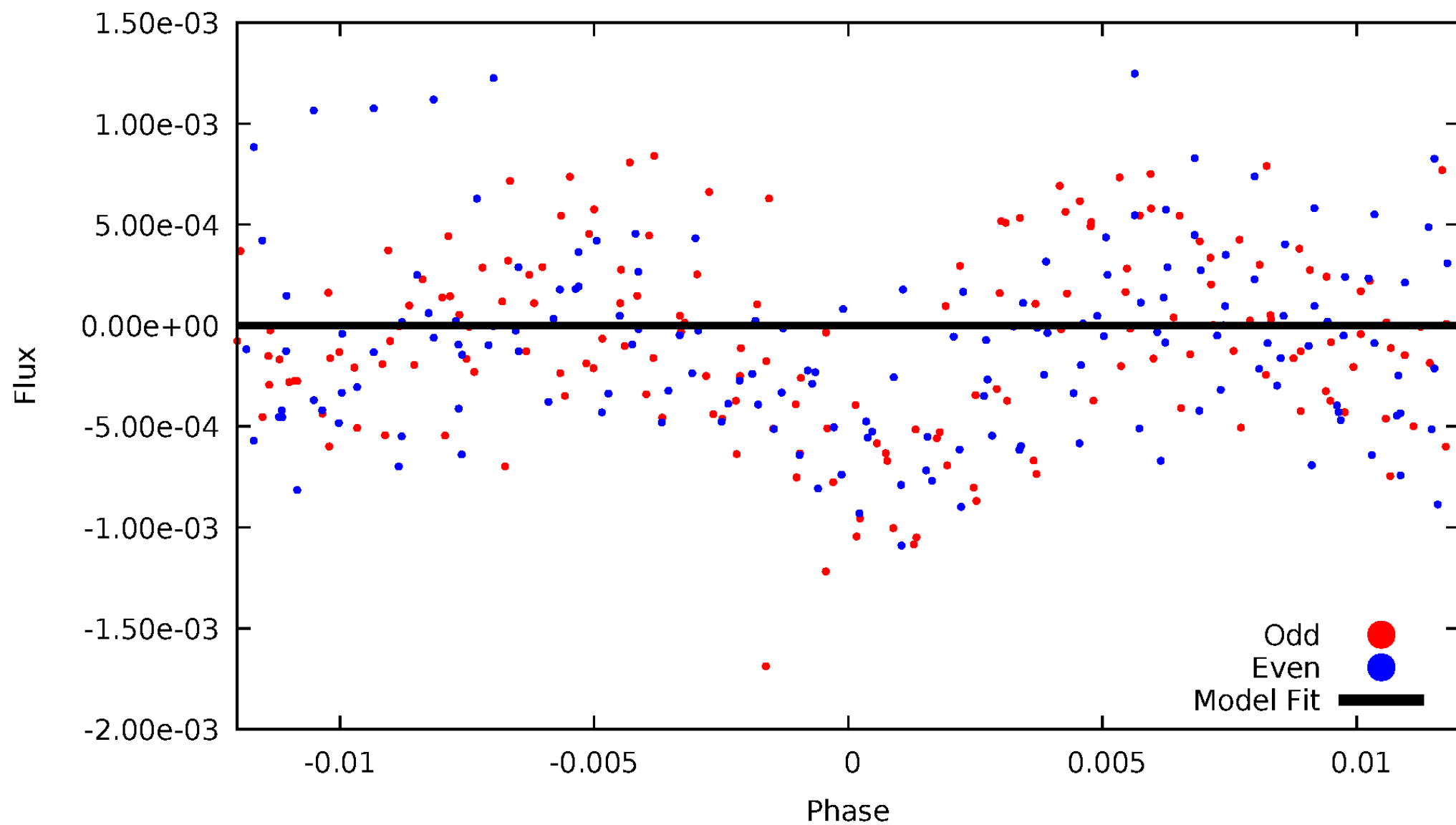


TCE 008264583-09



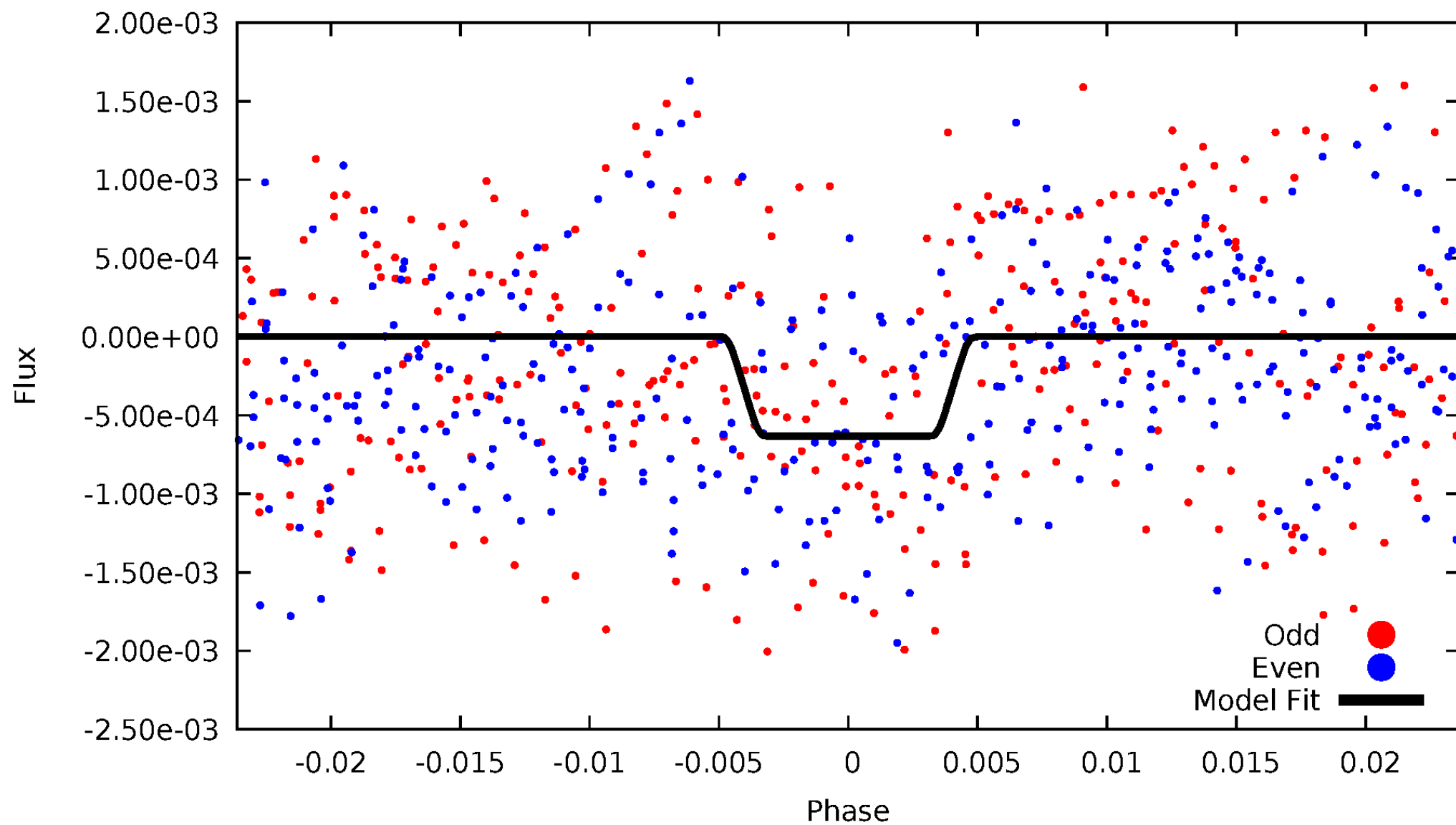
DV Odd/Even

TCE 008264583-09



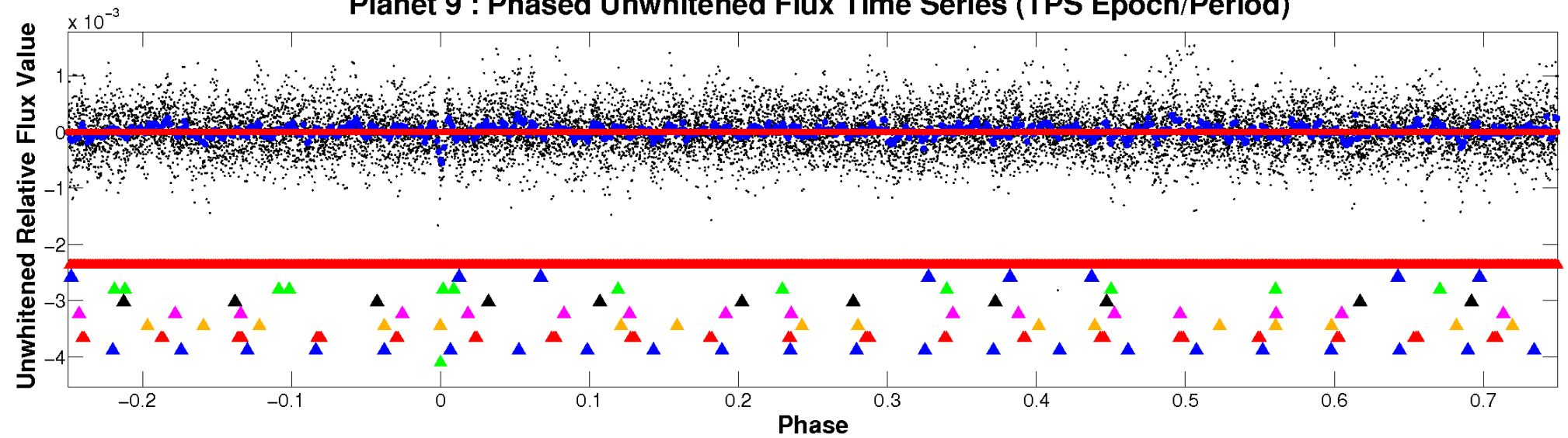
ALT Odd/Even

TCE 008264583-09

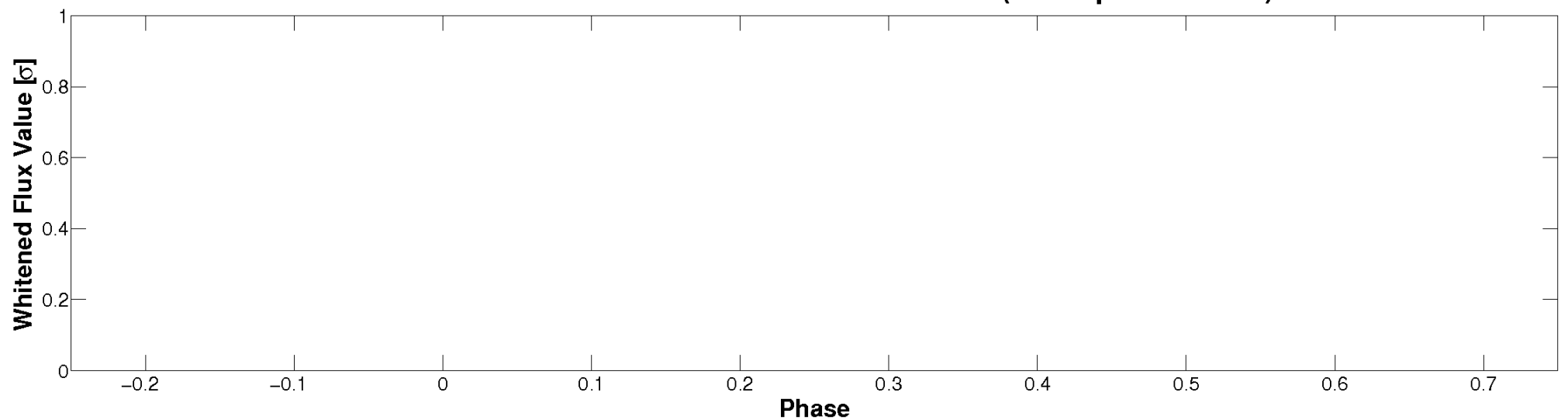


Non-Whitened Vs. Whitened Light Curve

Planet 9 : Phased Unwhitened Flux Time Series (TPS Epoch/Period)

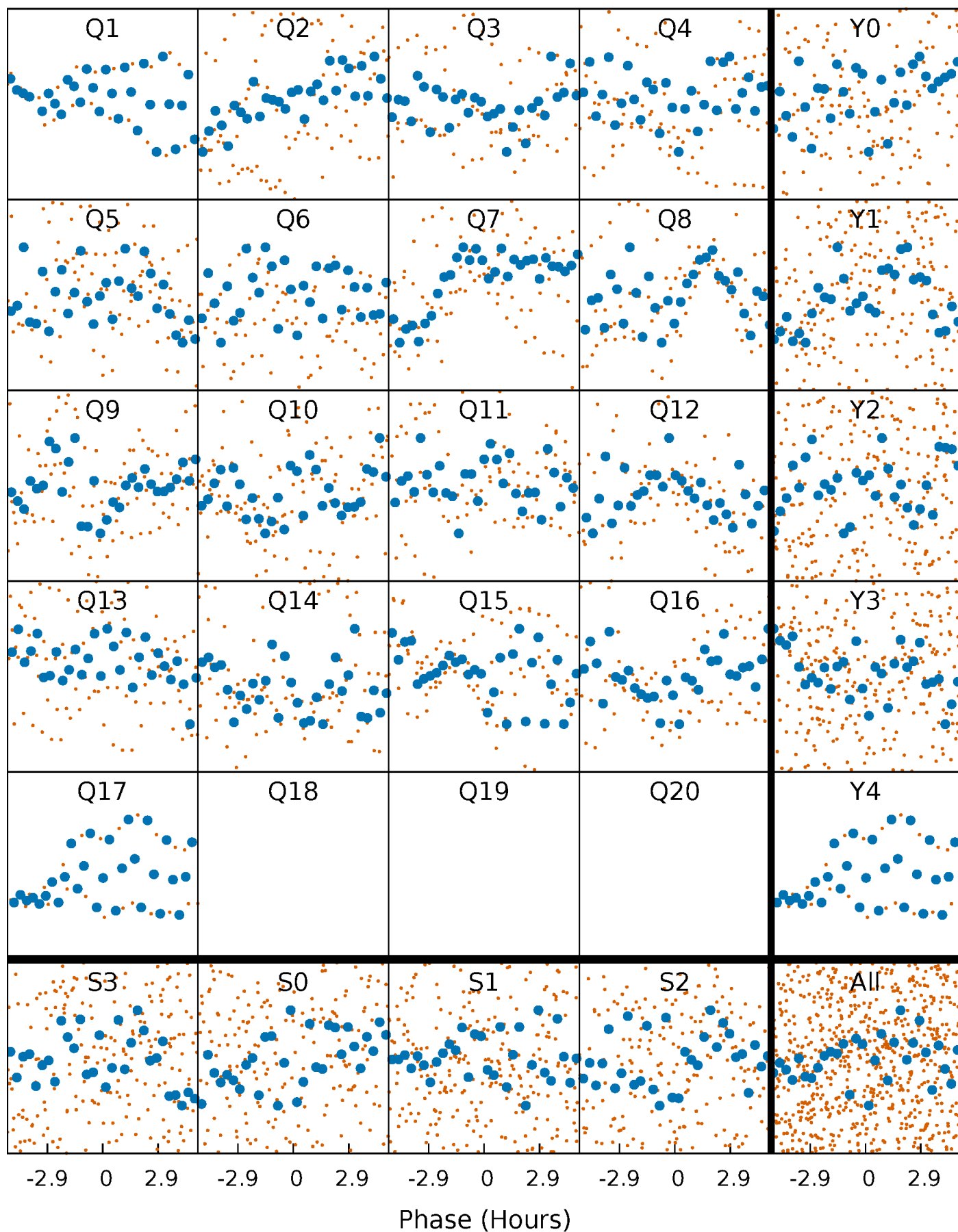


Planet 9 : Phased Whitened Flux Time Series (TPS Epoch/Period)



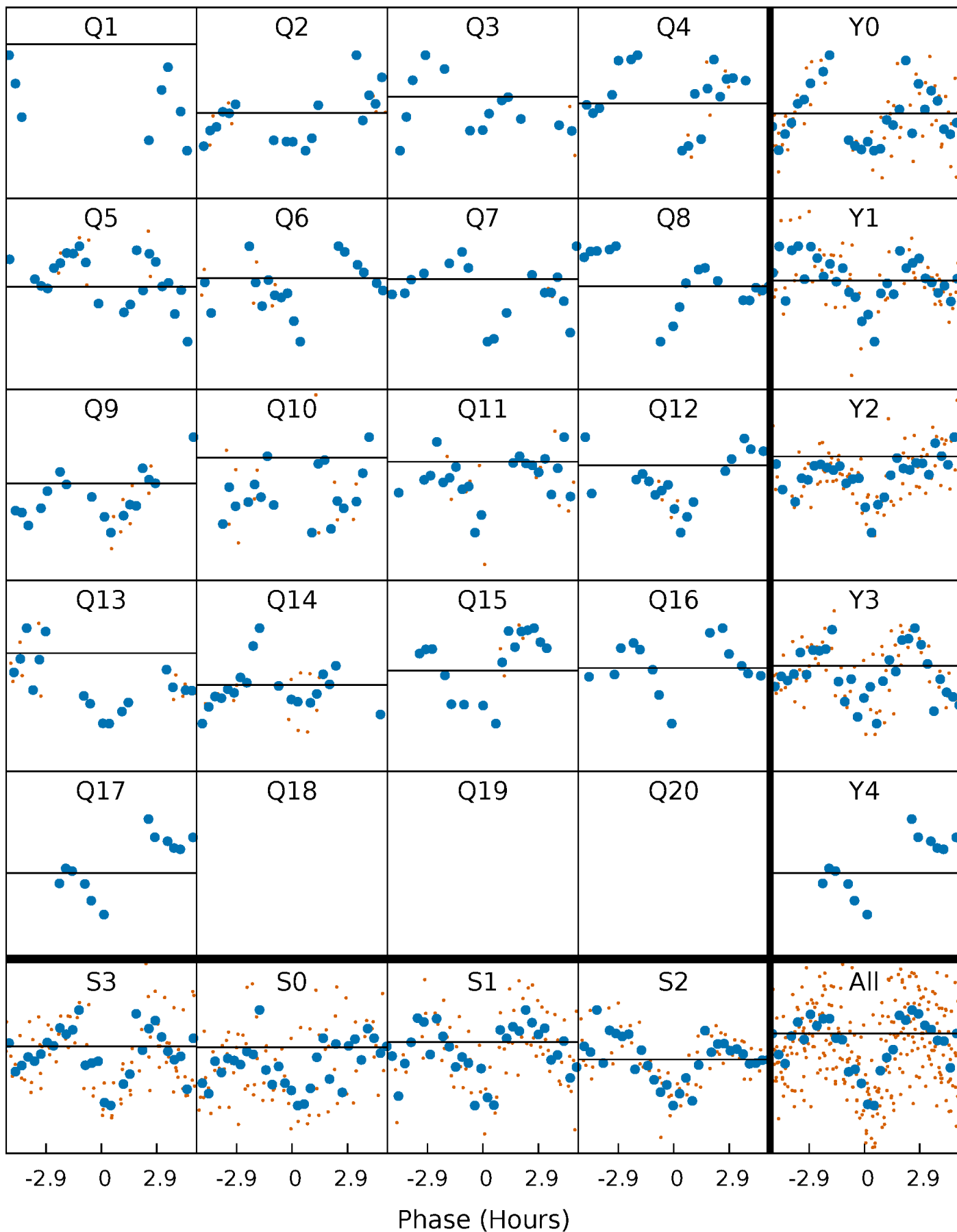
PDC Quarter-Phased Transit Curves

TCE 008264583-09 P= 17.336782 Days $T_0=132.120369$ (BKJD)



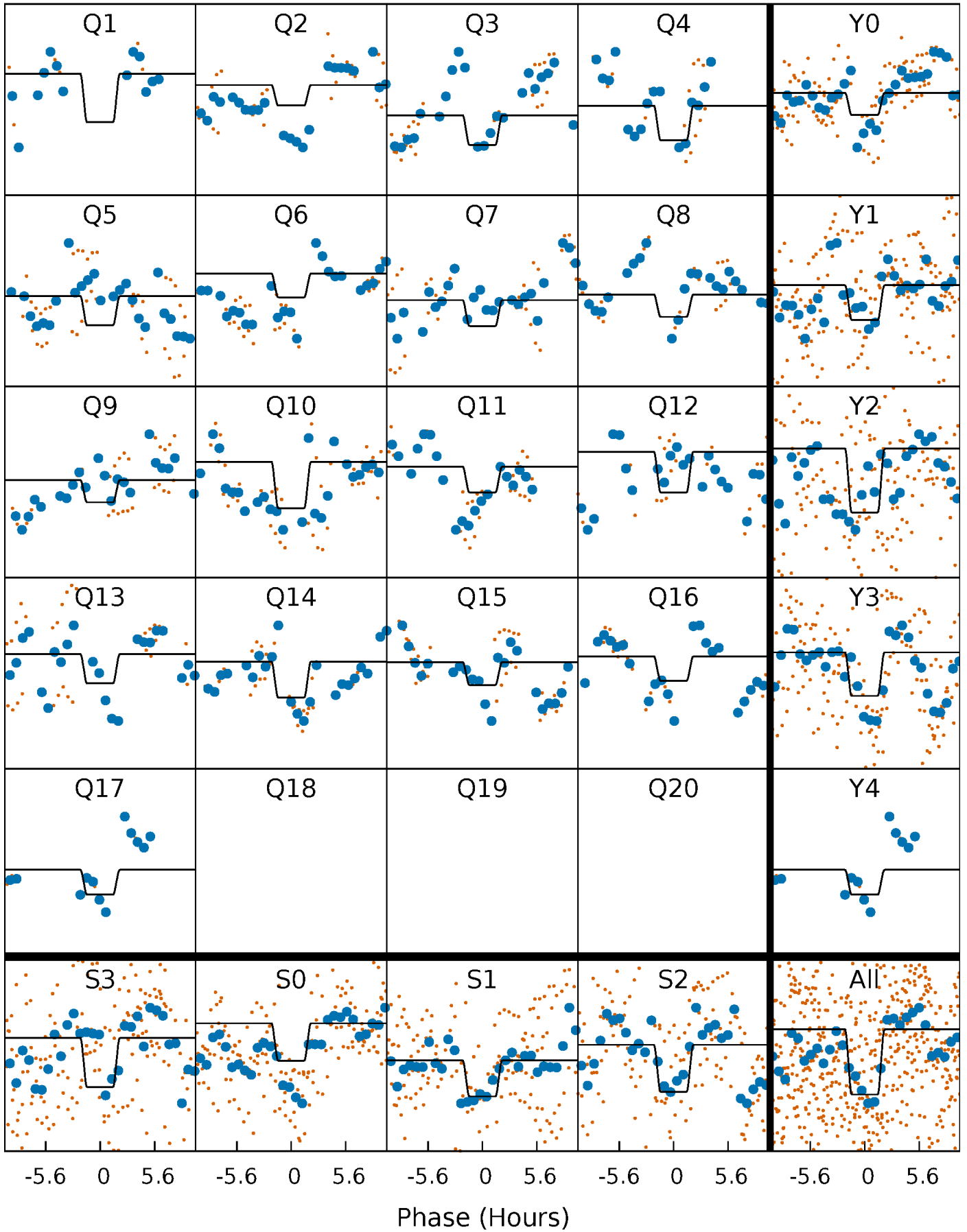
DV Quarter-Phased Transit Curves

TCE 008264583-09 P= 17.336782 Days $T_0=132.120369$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

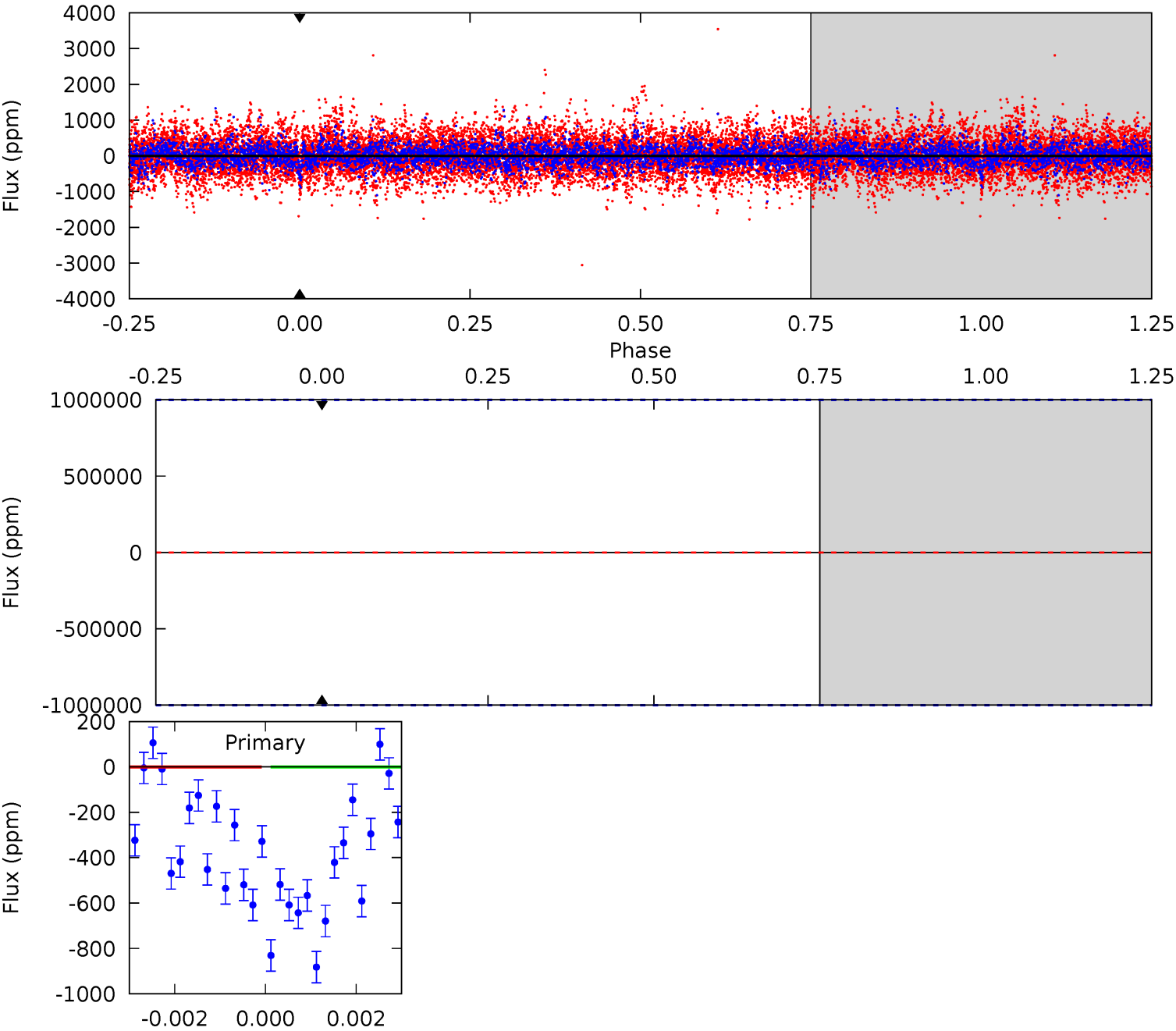
TCE 008264583-09 P= 17.336782 Days $T_0=132.105686$ (BKJD)



DV Model-Shift Uniqueness Test

008264583-09, P = 17.336782 Days, E = 114.783587 Days

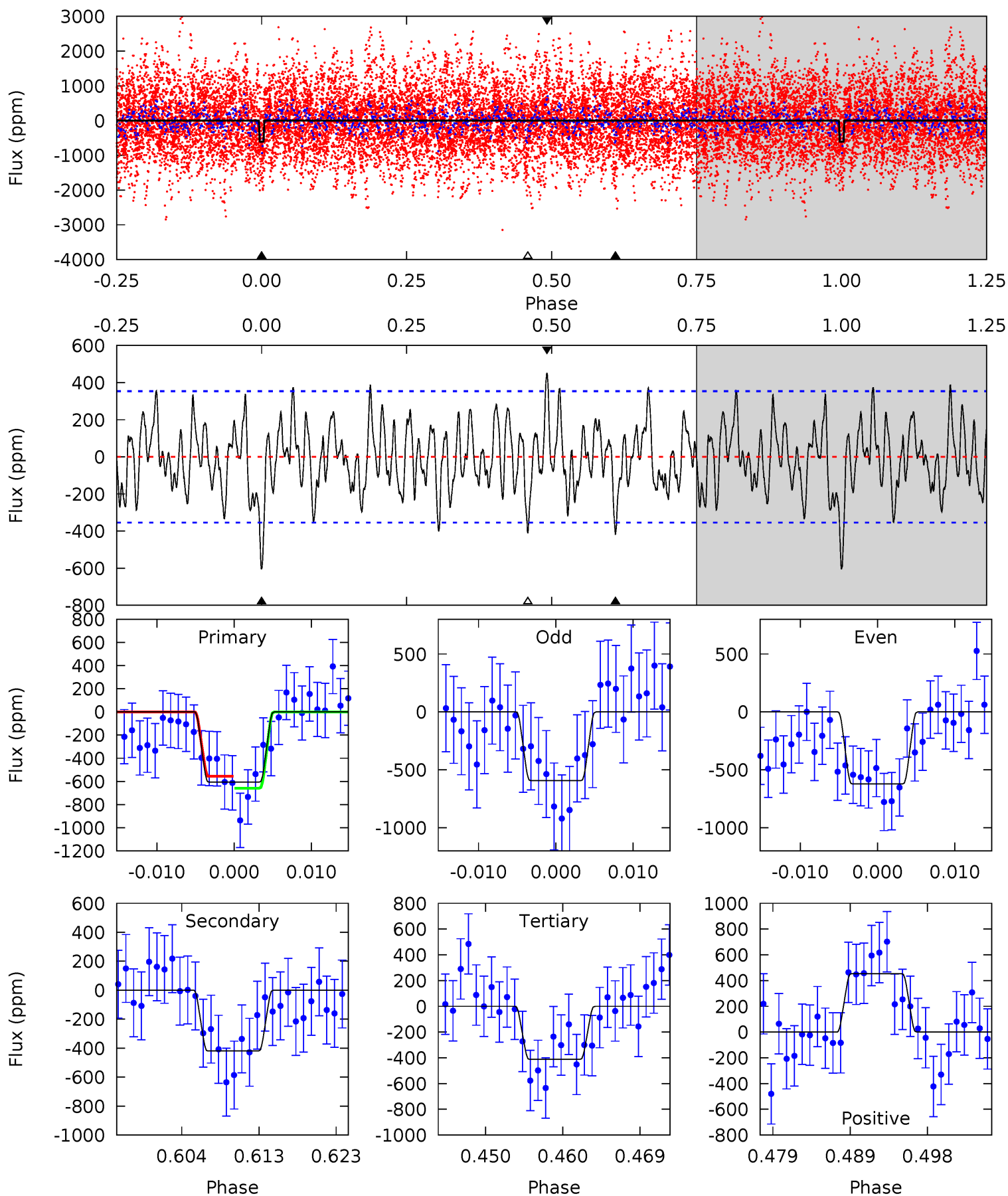
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

008264583-09, P = 17.336782 Days, E = 114.768904 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.62	5.97	5.86	6.43	5.03	2.59	2.21	2.76	2.19	0.11	-0.47	0.20	1.03	0.43	0.73



Stellar Parameters For KIC 008264583

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7242^{+129}_{-158}	$3.956^{+0.168}_{-0.112}$	$-0.100^{+0.150}_{-0.150}$	$2.231^{+0.390}_{-0.520}$	$1.640^{+0.130}_{-0.194}$	$0.208^{+0.202}_{-0.063}$
	+2%/-2%	+4%/-3%	+150%/-150%	+17%/-23%	+8%/-12%	+97%/-30%
Source	SPE4	SPE4	SPE4	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008264583-09 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$16.99^{+17.94}_{-11.18}$	1700^{+78}_{-105}	4625^{+38365}_{-37359}	41^{+9306}_{-6303}
Alt.	-420 ± 70	$18.82^{+20.16}_{-13.32}$	1687^{+85}_{-88}	4007^{+2838}_{-908}	16^{+167}_{-12}

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 $A_{obs} \gg 1.0$

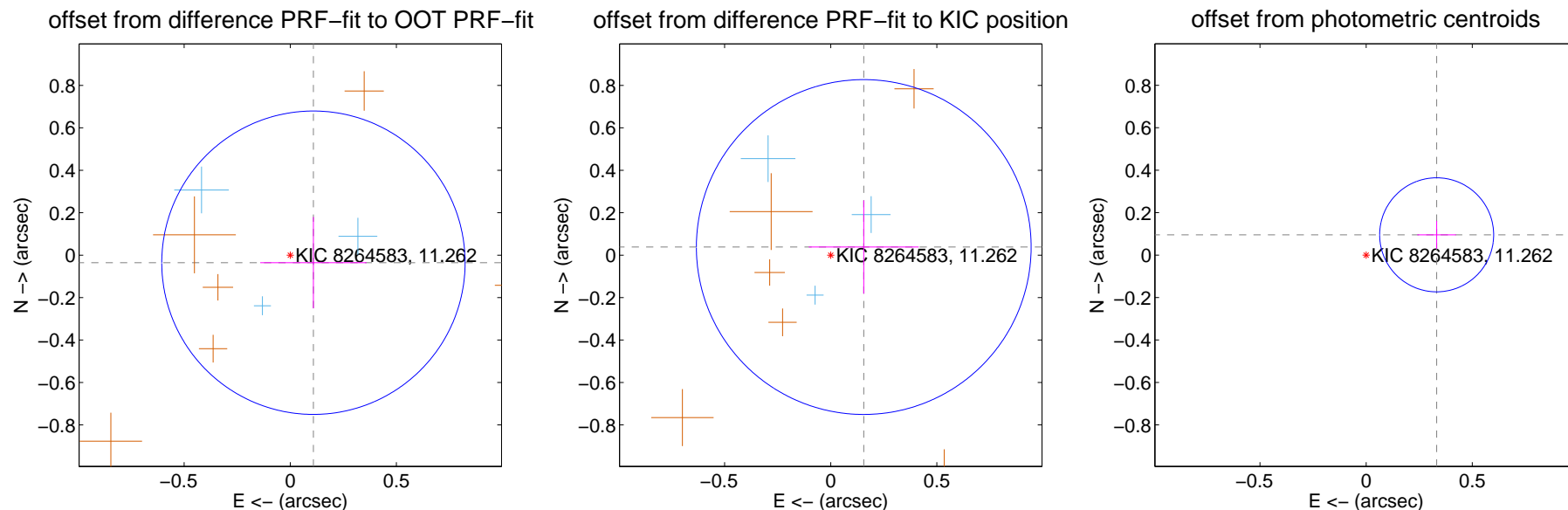
DV Centroid Data

Supplemental centroid analysis for 008264583-09. **Kepler magnitude: 11.26**. Transit SNR -1.00

There are 9 quarters with good PRF difference image offsets

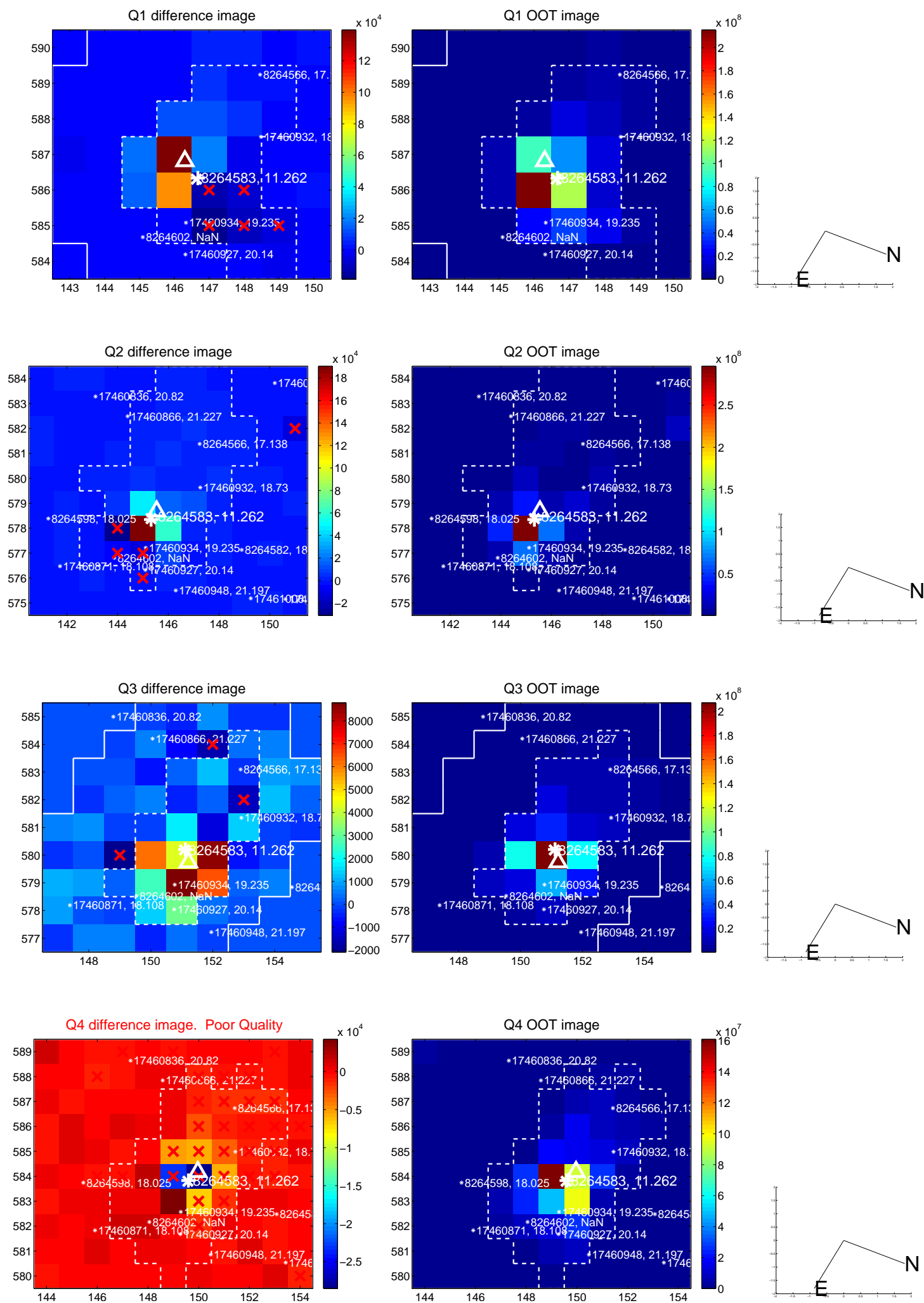
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.115 ± 0.238	0.48	-0.109 ± 0.251	-0.036 ± 0.215
PRF-fit source offset from KIC position	0.160 ± 0.263	0.61	-0.156 ± 0.259	0.038 ± 0.220
photometric centroid source offset	0.35 ± 0.09	3.86	-0.33 ± 0.09	0.10 ± 0.07

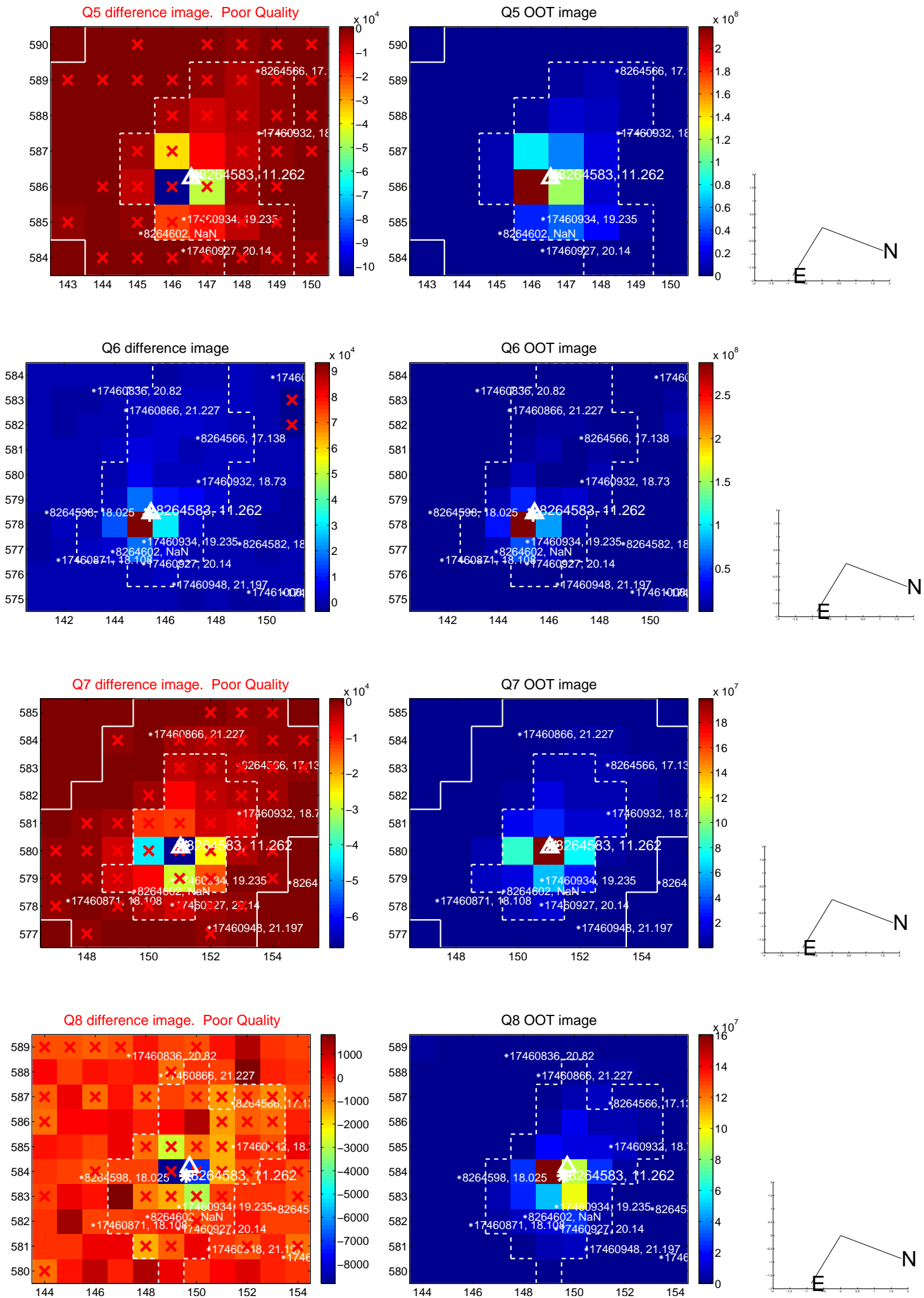


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

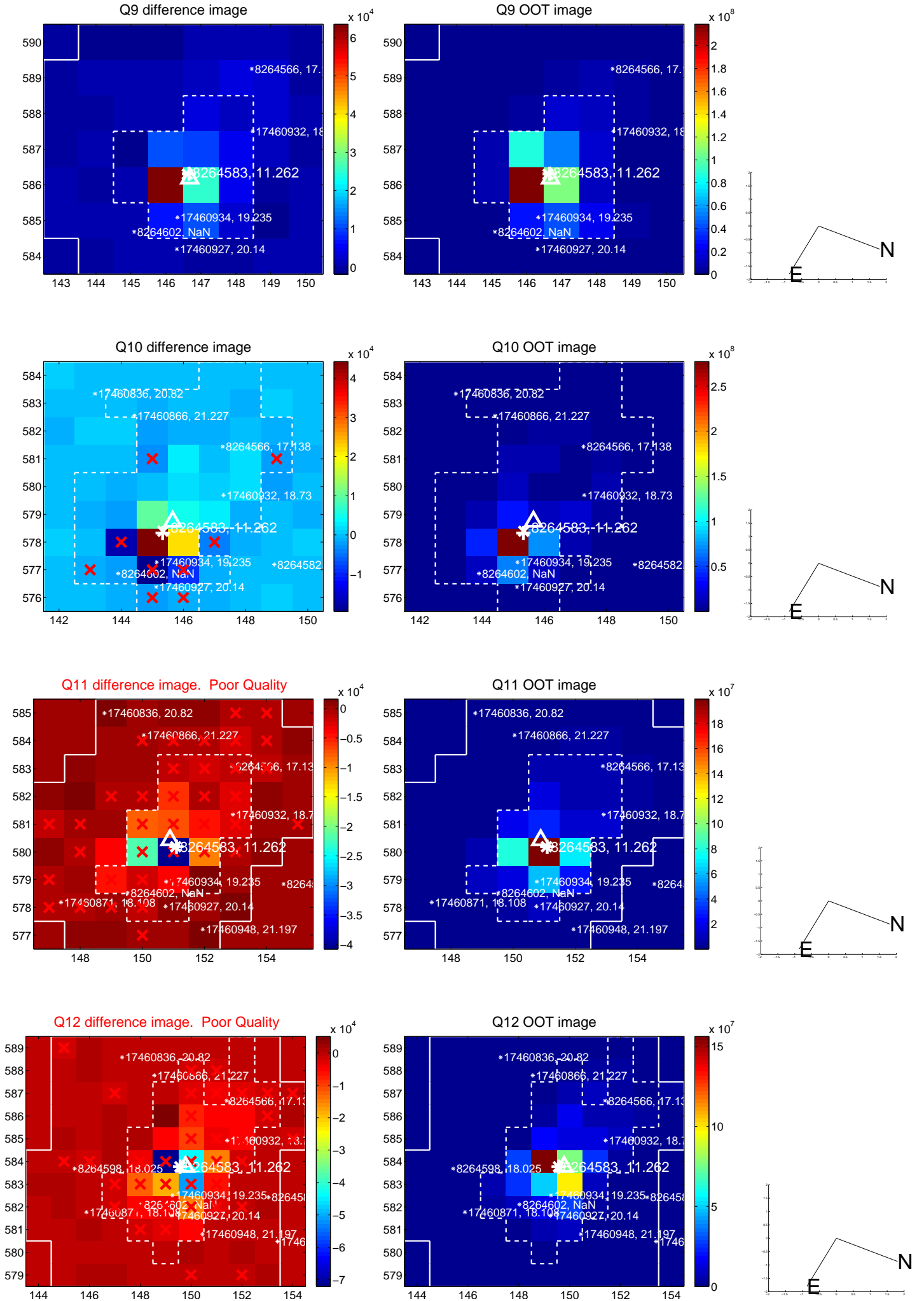
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



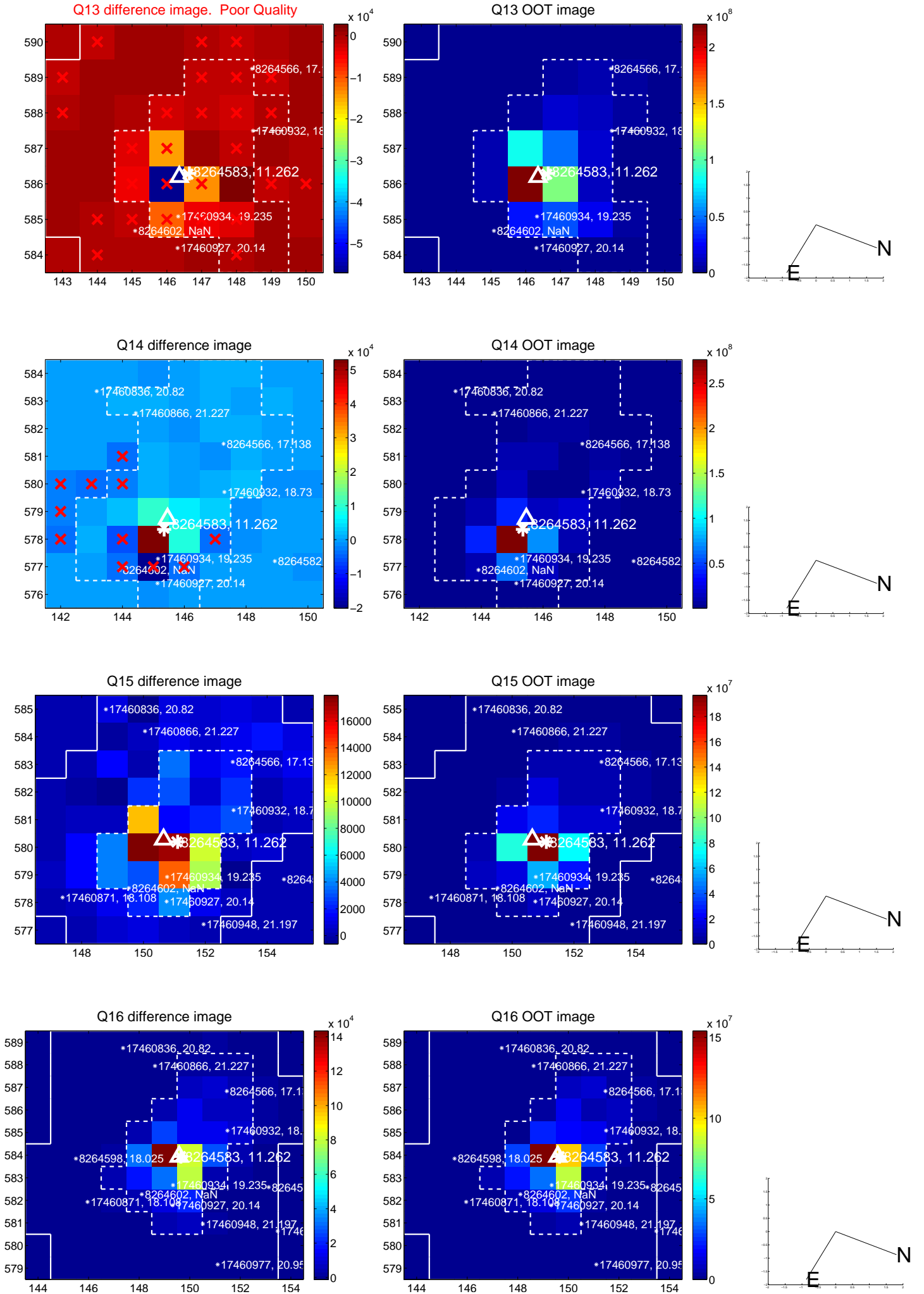
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



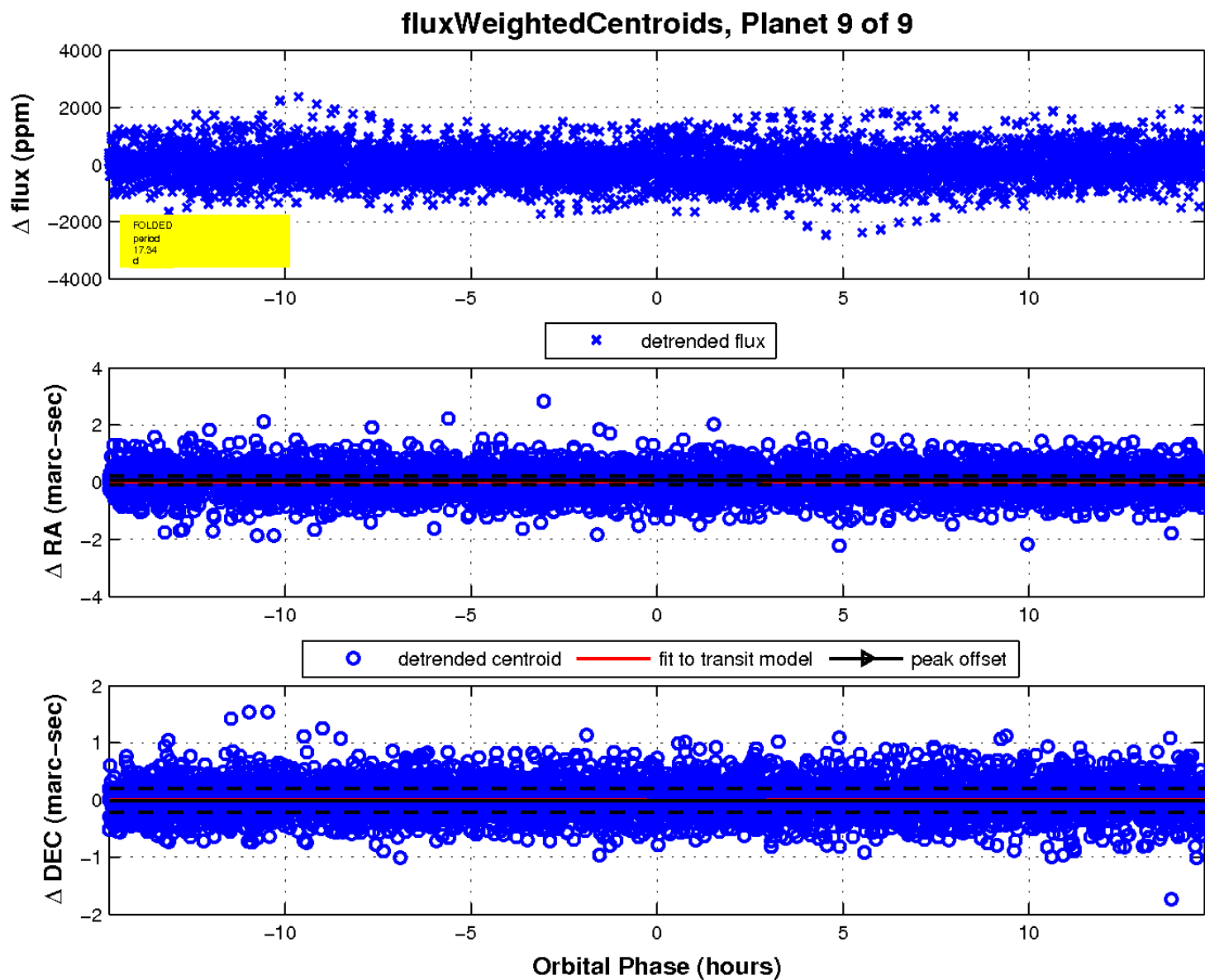
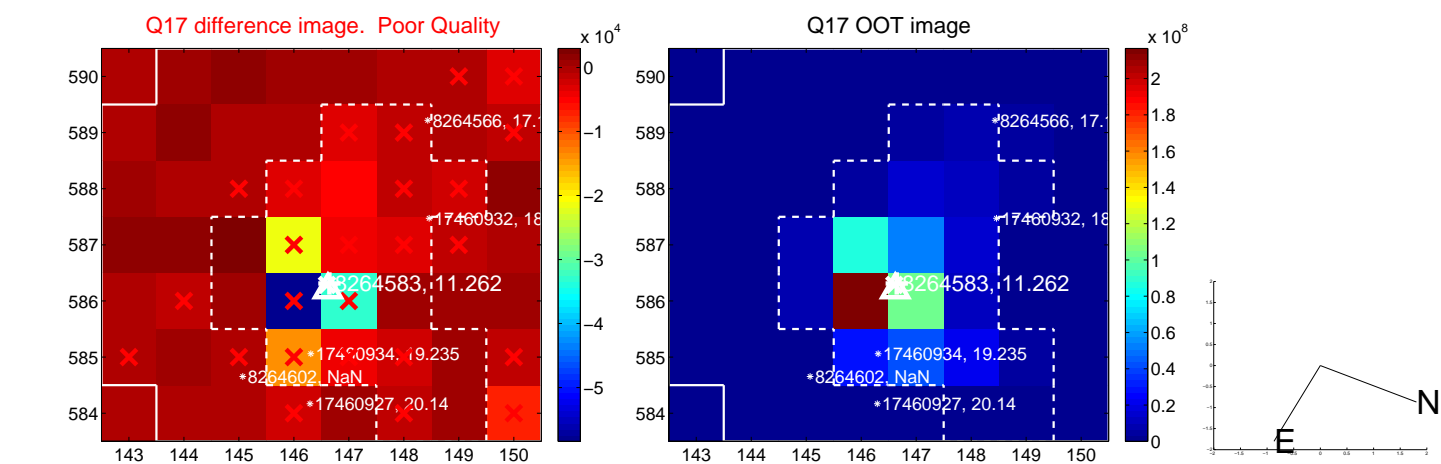
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

