

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005467126-01

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
005467126-01	5467126	3825.01	5467113	1:1	8.4	2	1	15.83	12.36	251.48	Direct-PRF	0	0.39	0.33

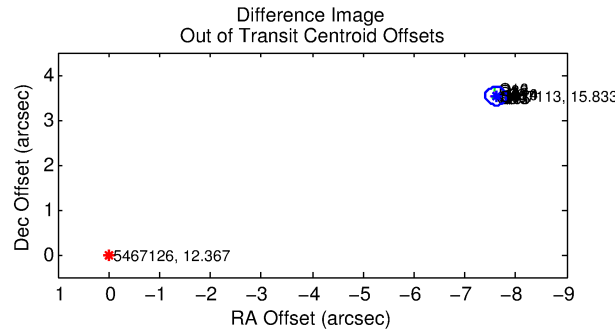
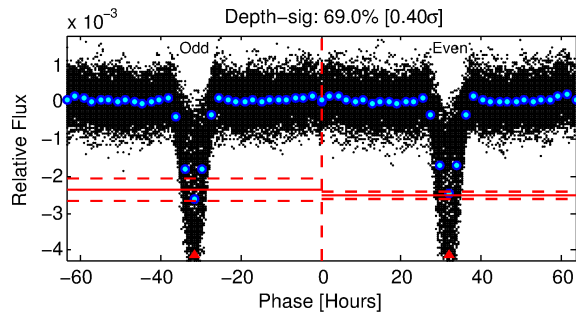
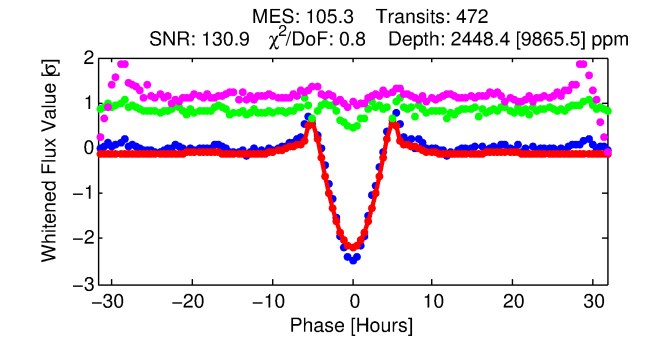
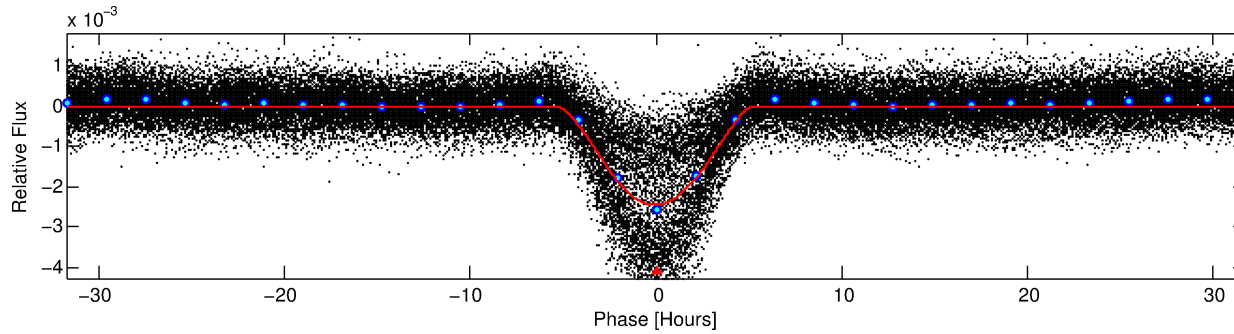
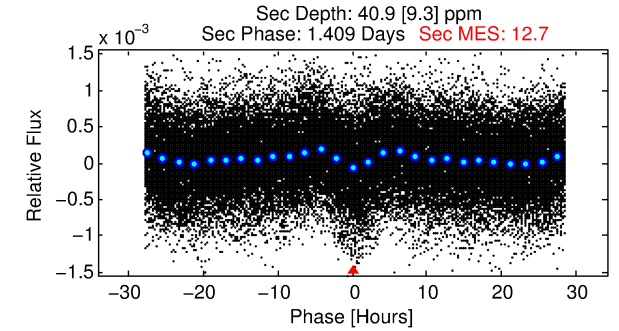
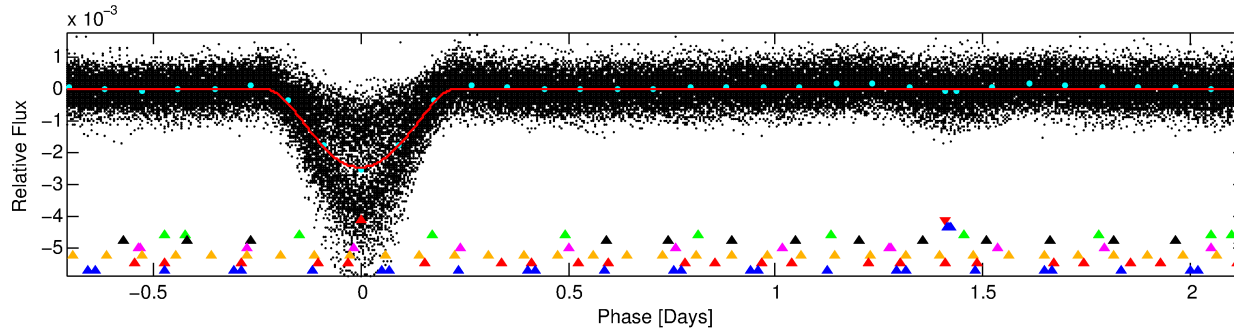
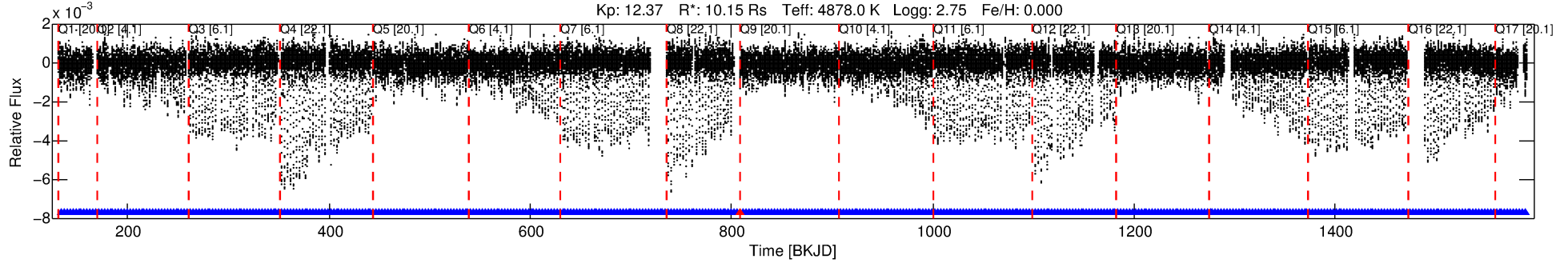
Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 5467126 Candidate: 1 of 8 Period: 2.846 d

KOI: K05171.01 Corr: 0.989

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



DV Fit Results:

Period = 2.84573 [0.00000] d
Epoch = 134.2827 [0.0010] BKJD
Rp/R* = 0.0895 [0.0103]
a/R* = 1.36 [0.00]
b = 1.00 [0.22]
Seff = N/A
Teq = N/A
Rp = 99.15 [38.42] Re
a = N/A
Ag = N/A
Teff = N/A

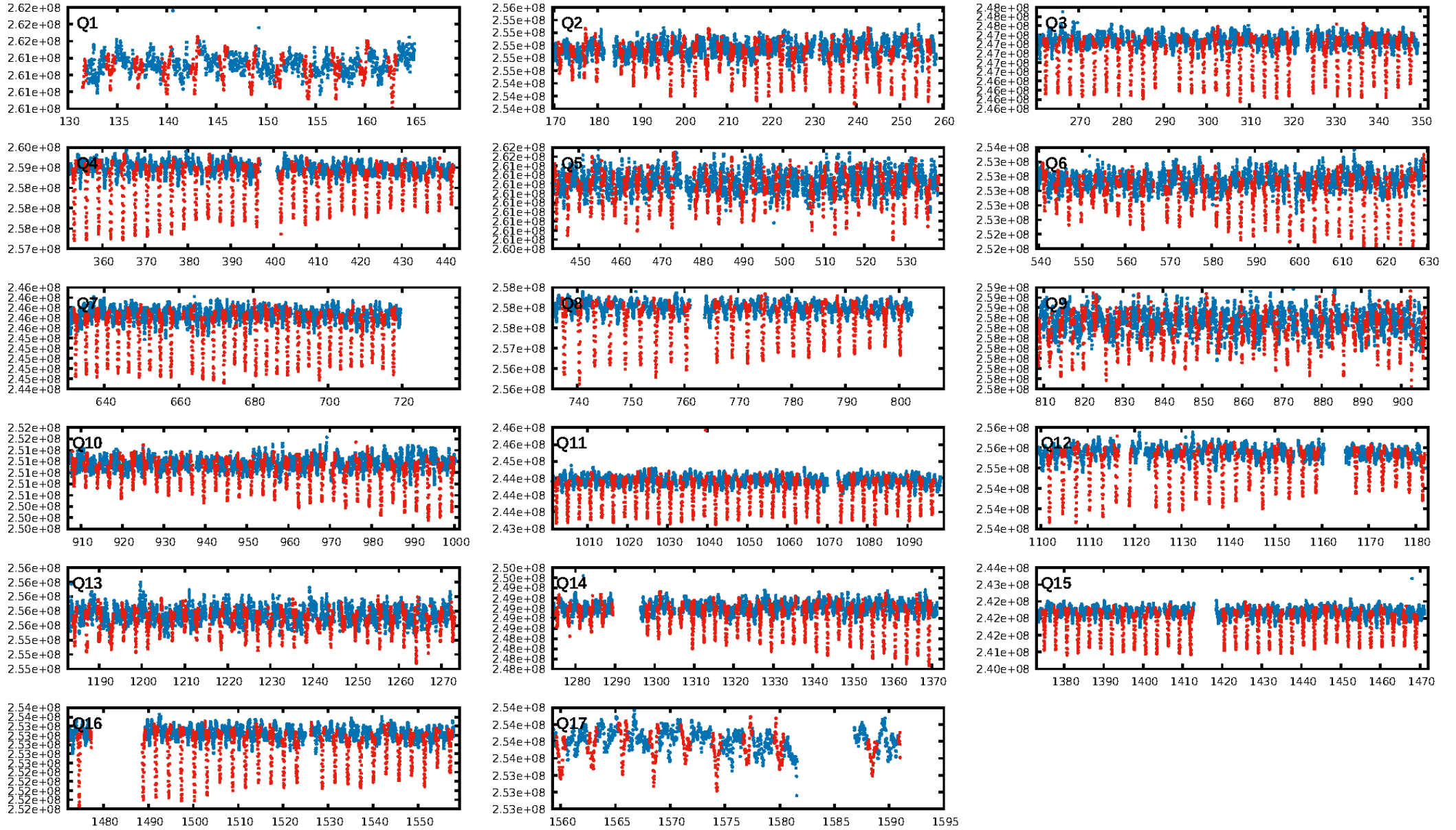
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [450/451]
GhostDiagnostic-chr: -0.3526
Centroid-sig: 0.0%
Centroid-so: 54.512 arcsec [567.40σ]
OotOffset-rm: 8.374 arcsec [122.05σ]
KicOffset-rm: 8.290 arcsec [123.12σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

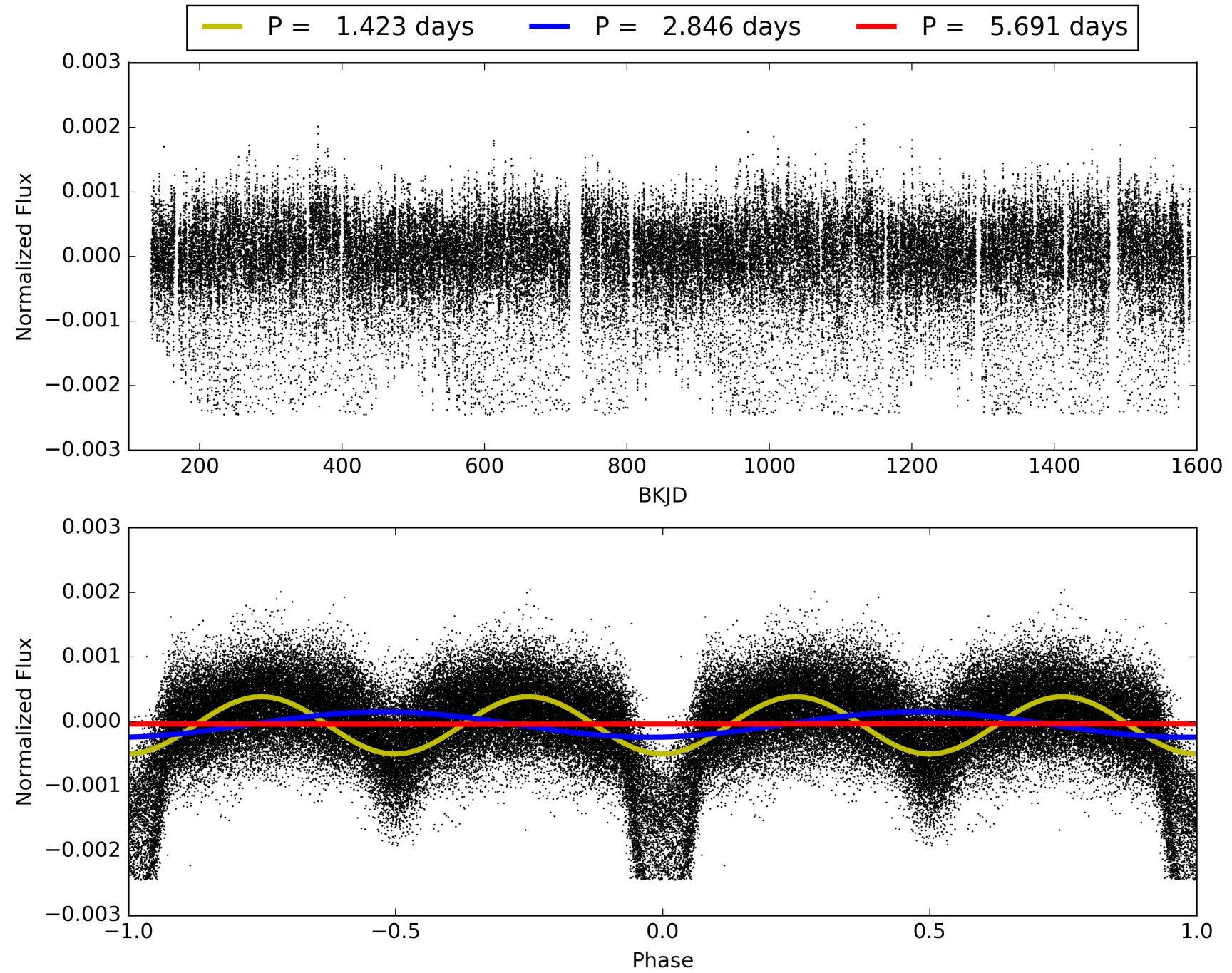
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:39:28 Z

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

TCE 005467126-01, PDC Light Curves

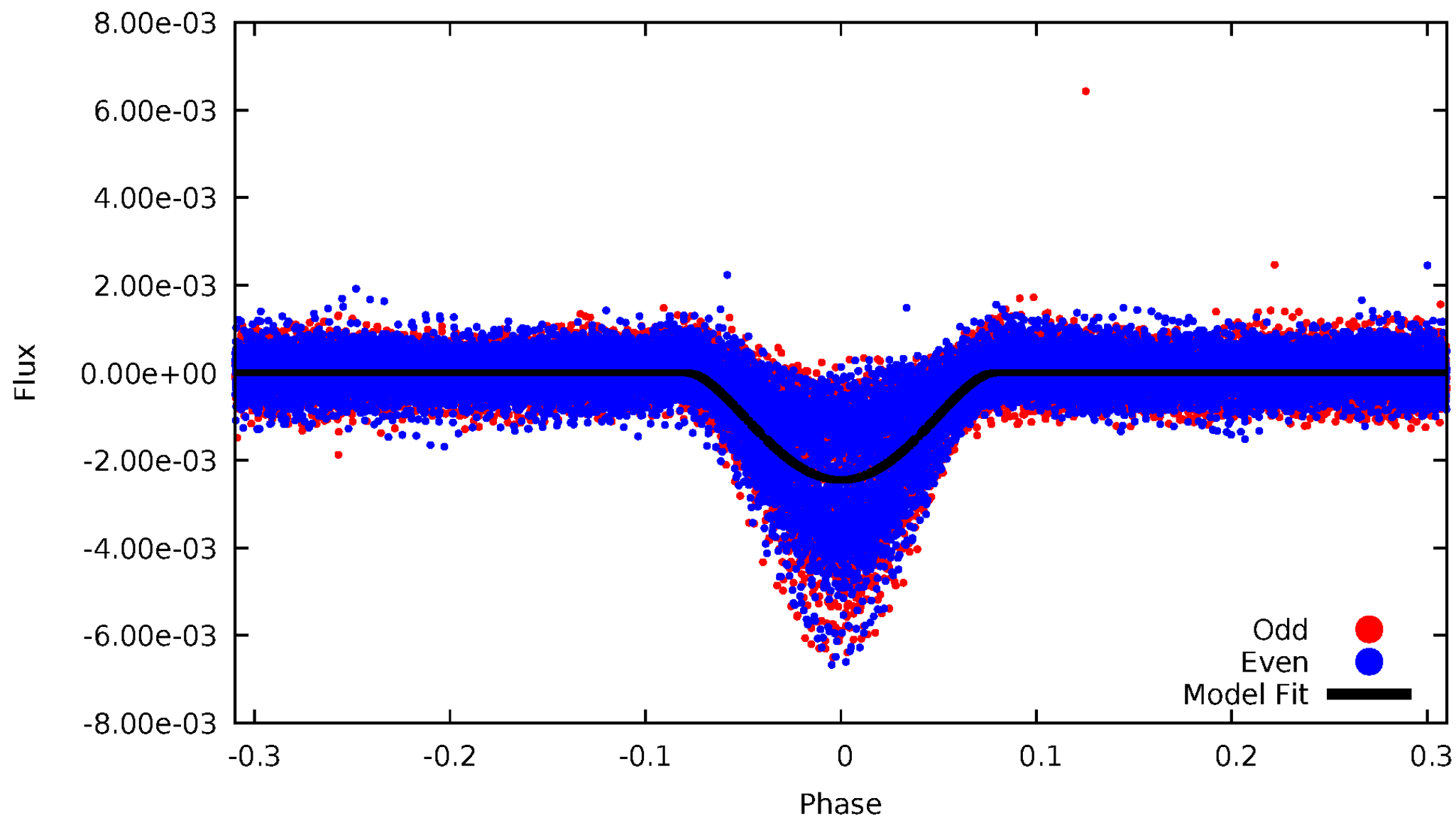


TCE 005467126-01



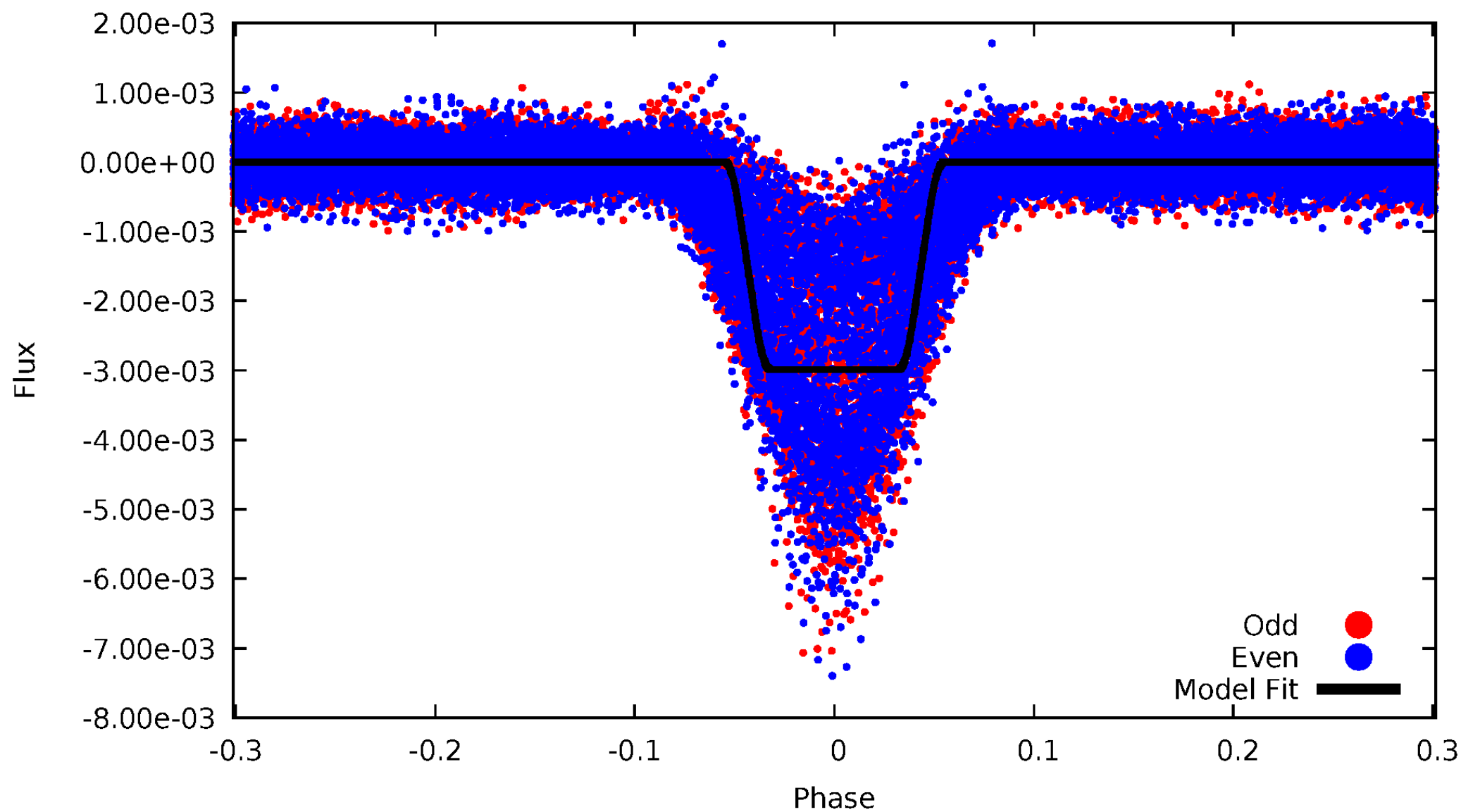
DV Odd/Even

TCE 005467126-01

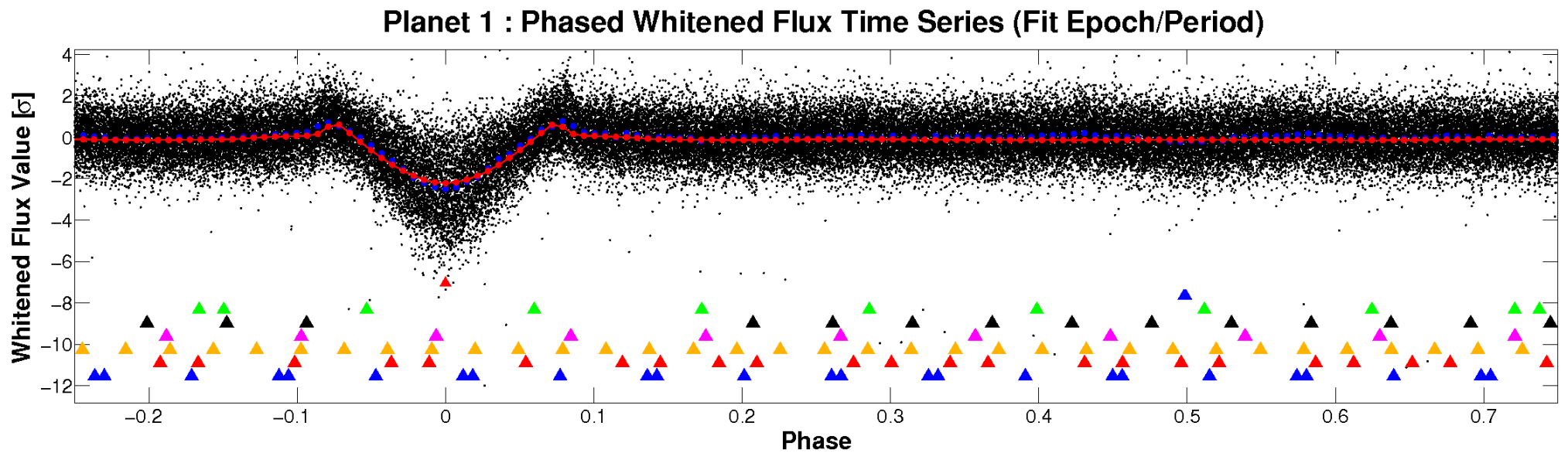
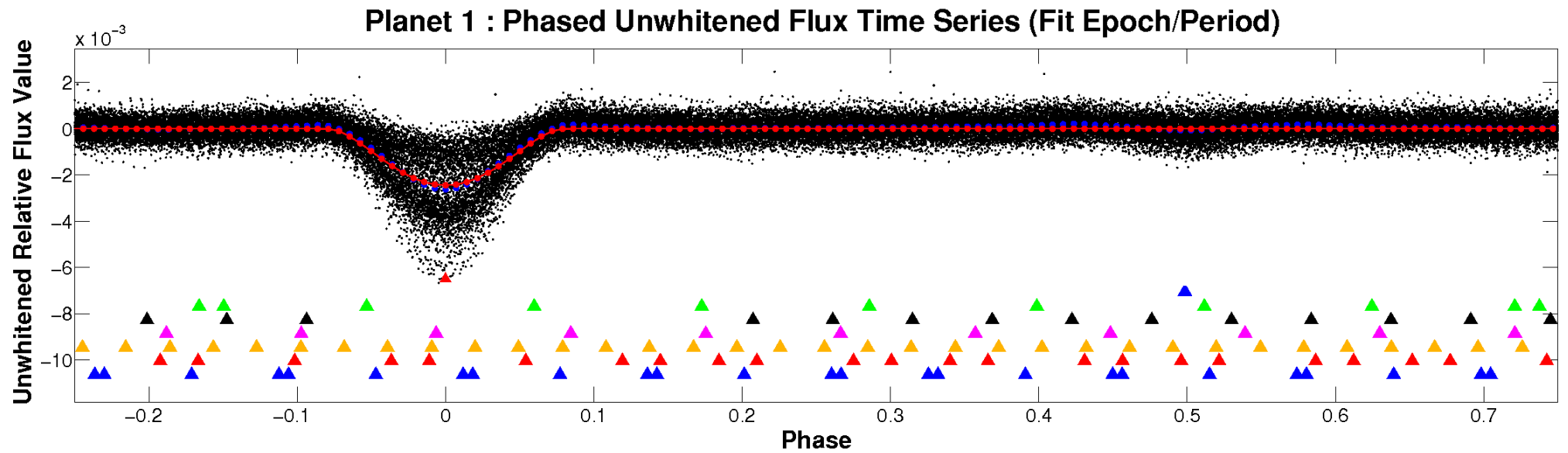


ALT Odd/Even

TCE 005467126-01

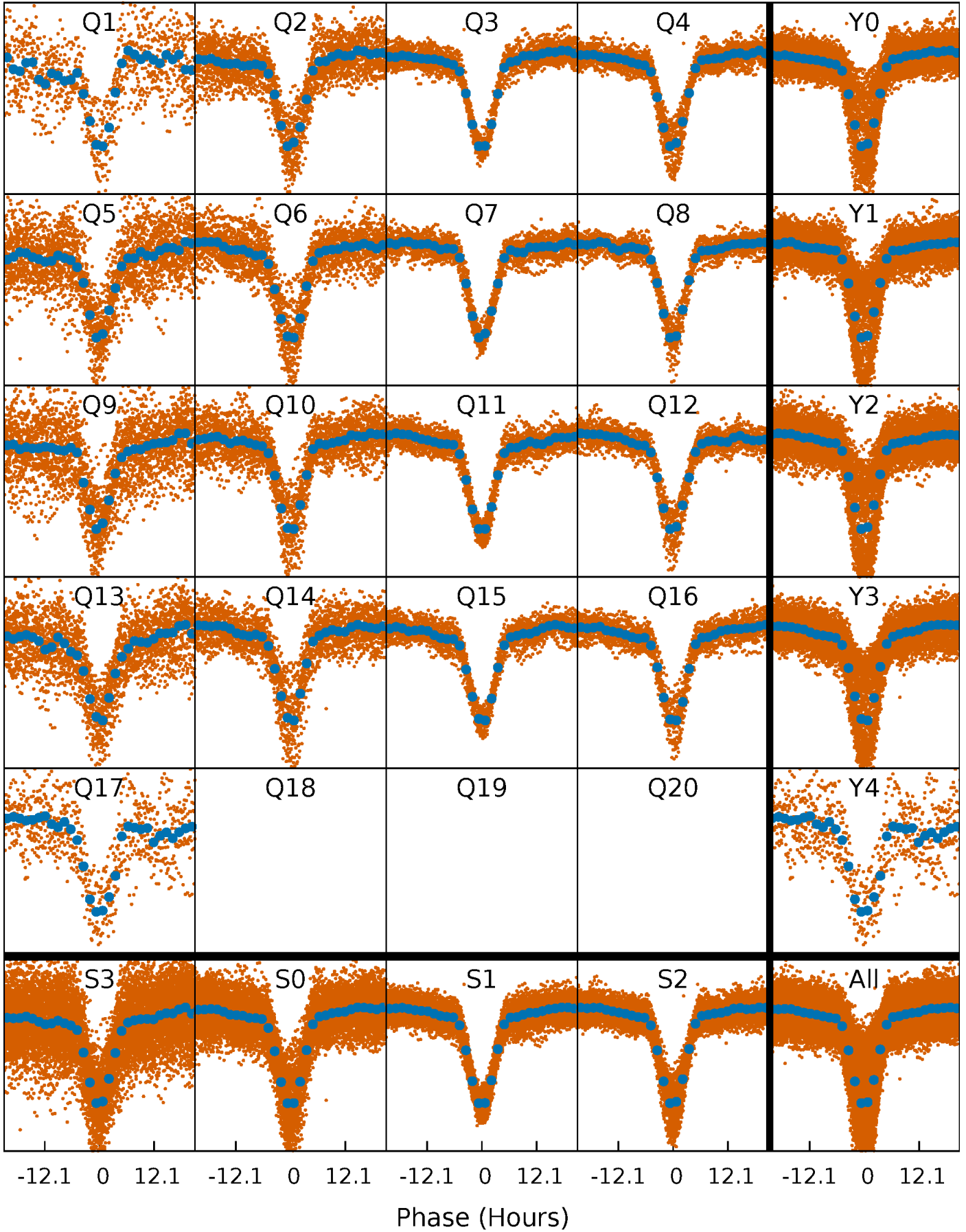


Non-Whitened Vs. Whitened Light Curve



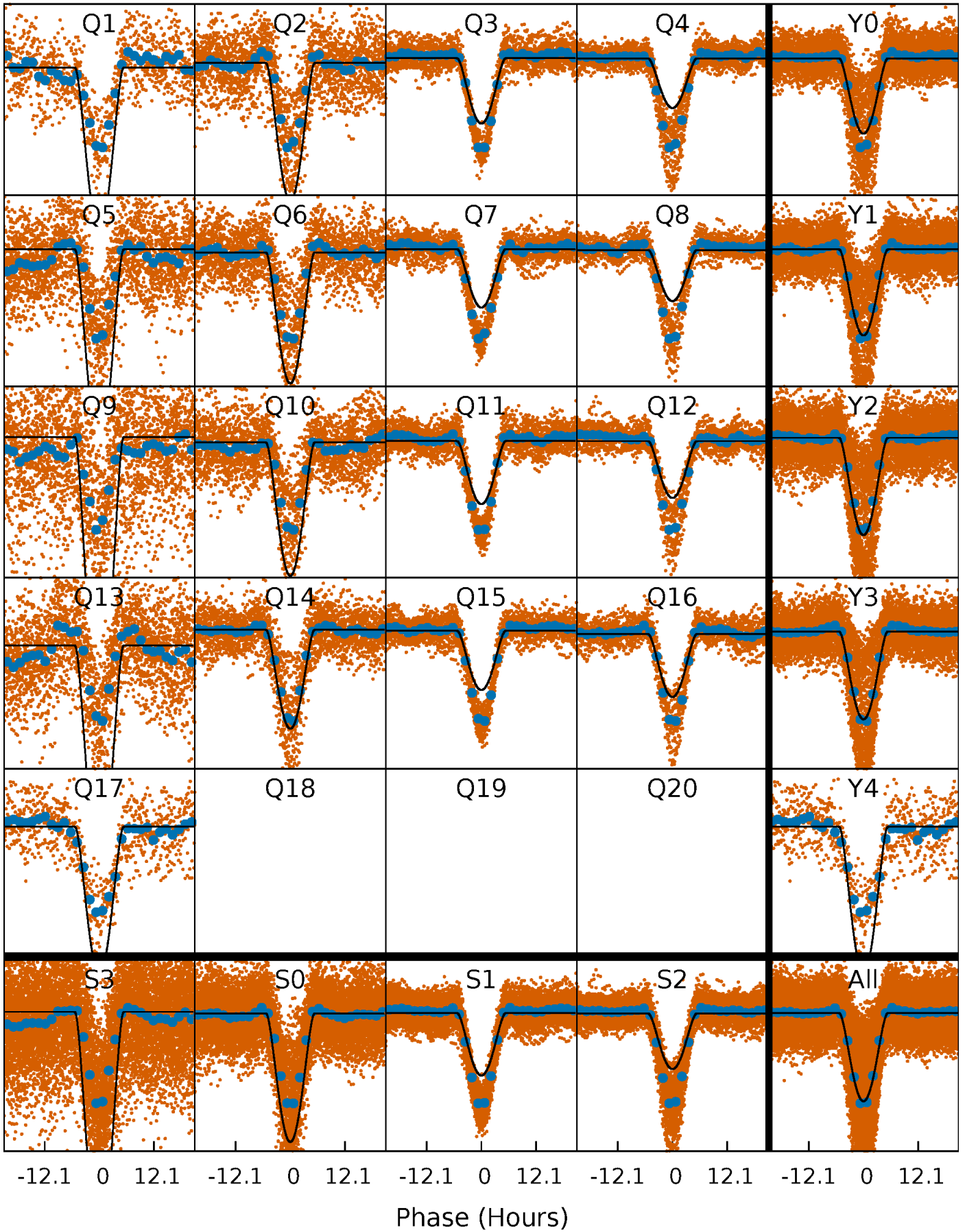
PDC Quarter-Phased Transit Curves

TCE 005467126-01 P= 2.845731 Days $T_0=134.282663$ (BKJD)



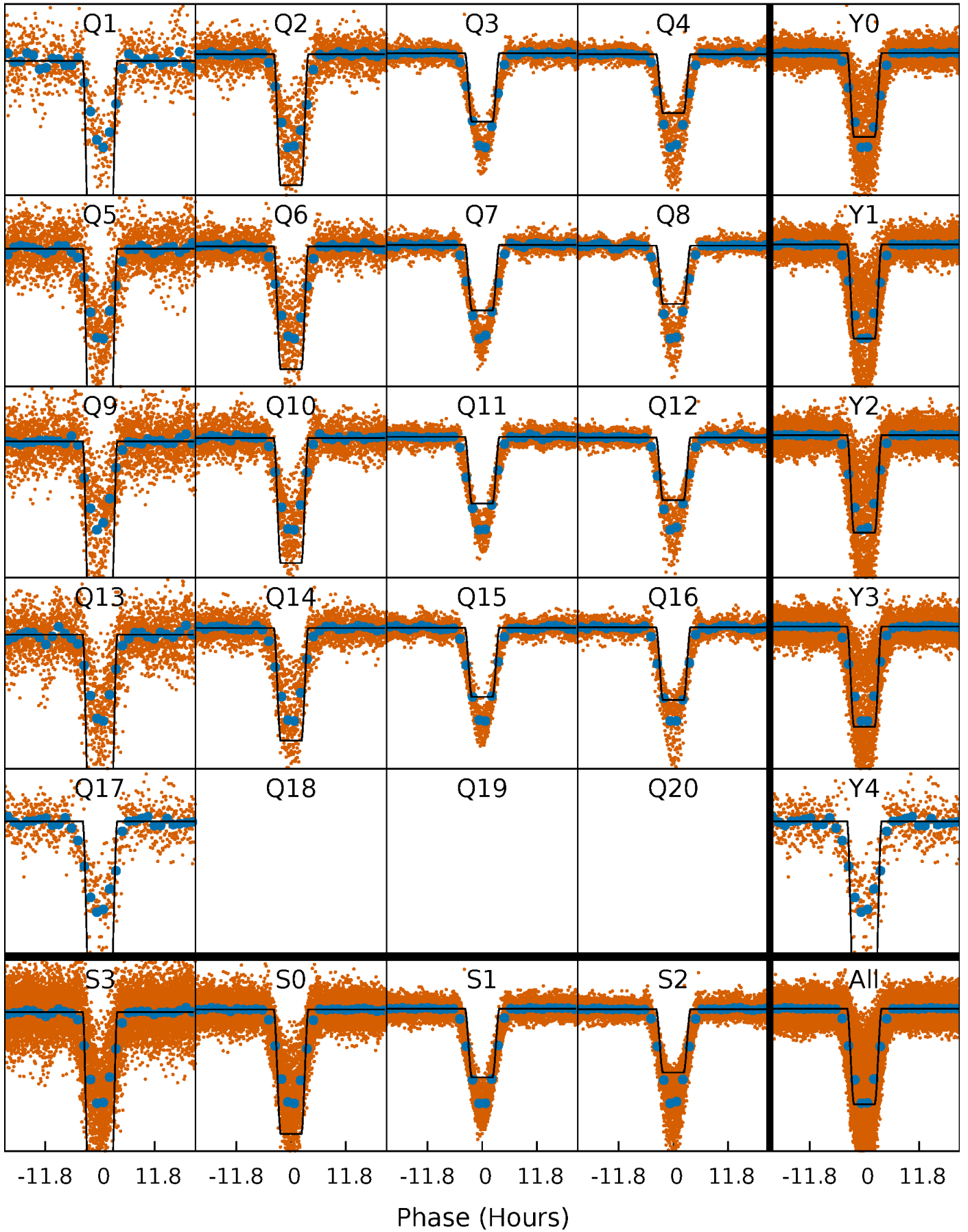
DV Quarter-Phased Transit Curves

TCE 005467126-01 P= 2.845731 Days $T_0=134.282663$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

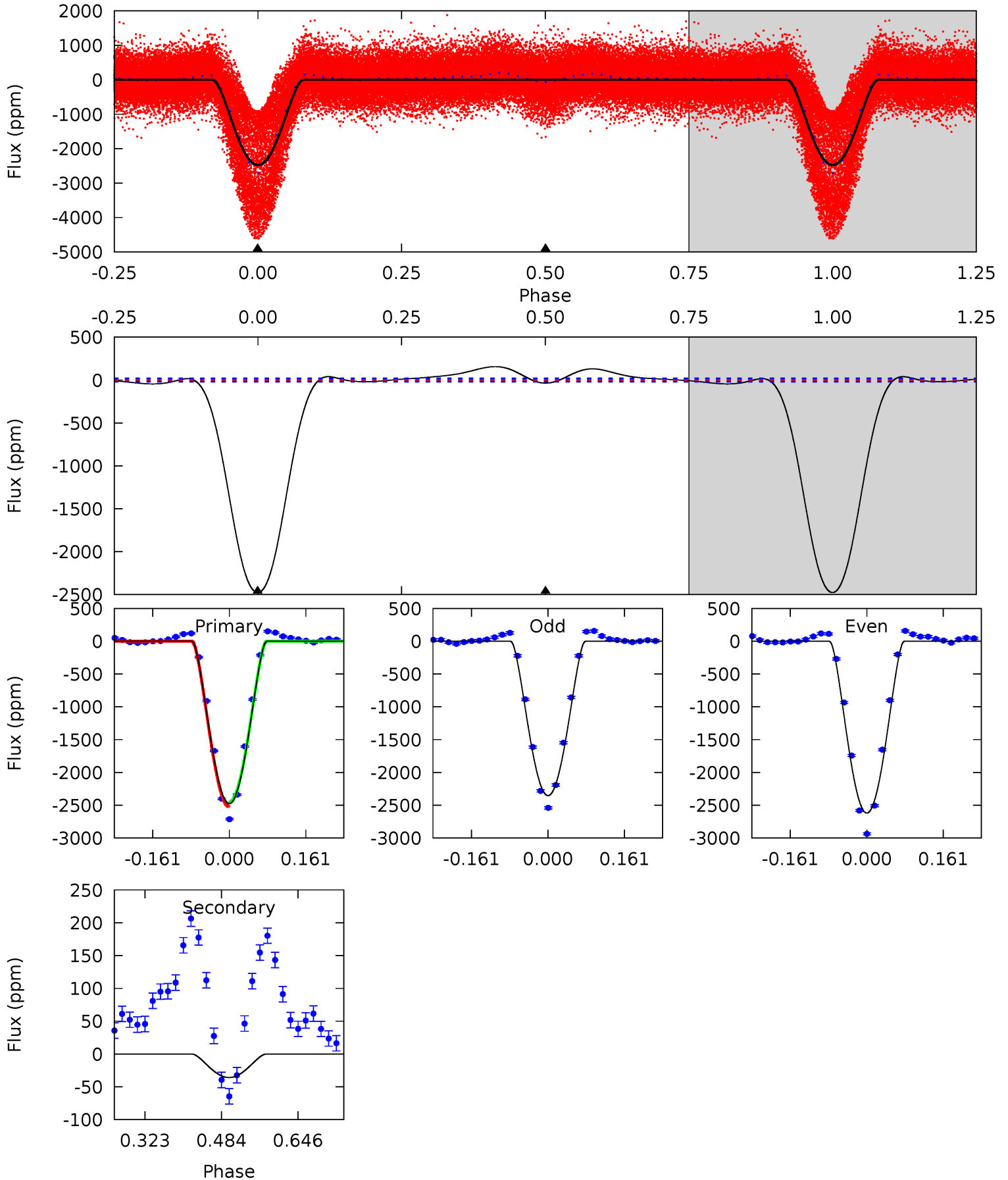
TCE 005467126-01 P= 2.845753 Days $T_0=134.276385$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-01, P = 2.845731 Days, E = 131.436932 Days

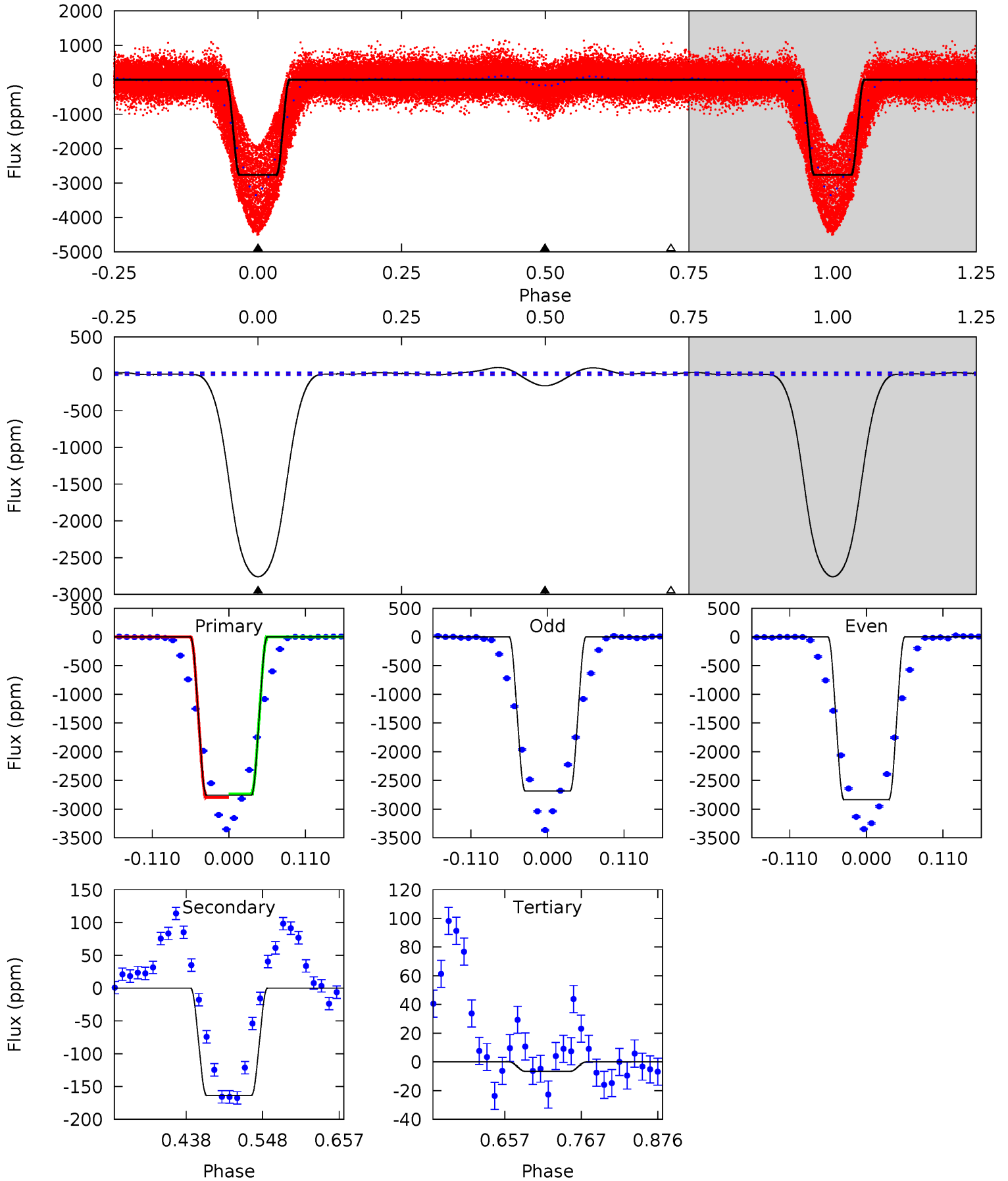
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
614.3	8.89	0	0	4.46	1.40	6.62	614.3	614.3	8.89	8.89	32.8	0.95	0.06	8.25



Alt Model-Shift Uniqueness Test

005467126-01, P = 2.845753 Days, E = 131.430632 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
734.8	43.5	1.76	0	4.55	1.60	3.14	733.1	734.8	41.8	43.5	19.6	0.96	0.03	8.29



Stellar Parameters For KIC 005467126

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-01 / KOI 5171.01

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-36 ± 4	$99.27^{+21.01}_{-21.87}$	4214^{+239}_{-317}	-3758^{+196}_{-144}	$0.005^{+0.002}_{-0.002}$
Alt.	-164 ± 4	$59.54^{+16.67}_{-15.68}$	4225^{+225}_{-278}	-3606^{+237}_{-193}	$0.066^{+0.042}_{-0.024}$

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 $A_{obs} \gg 1.0$

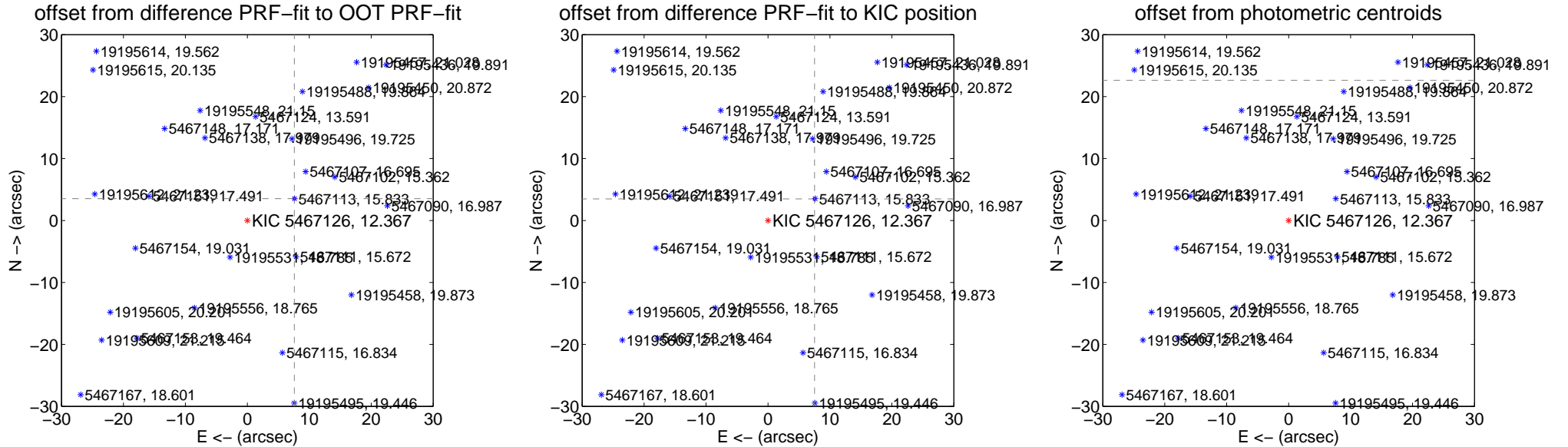
DV Centroid Data

Supplemental centroid analysis for 005467126-01. Kepler magnitude: 12.37. Transit SNR 130.95

There are 17 quarters with good PRF difference image offsets

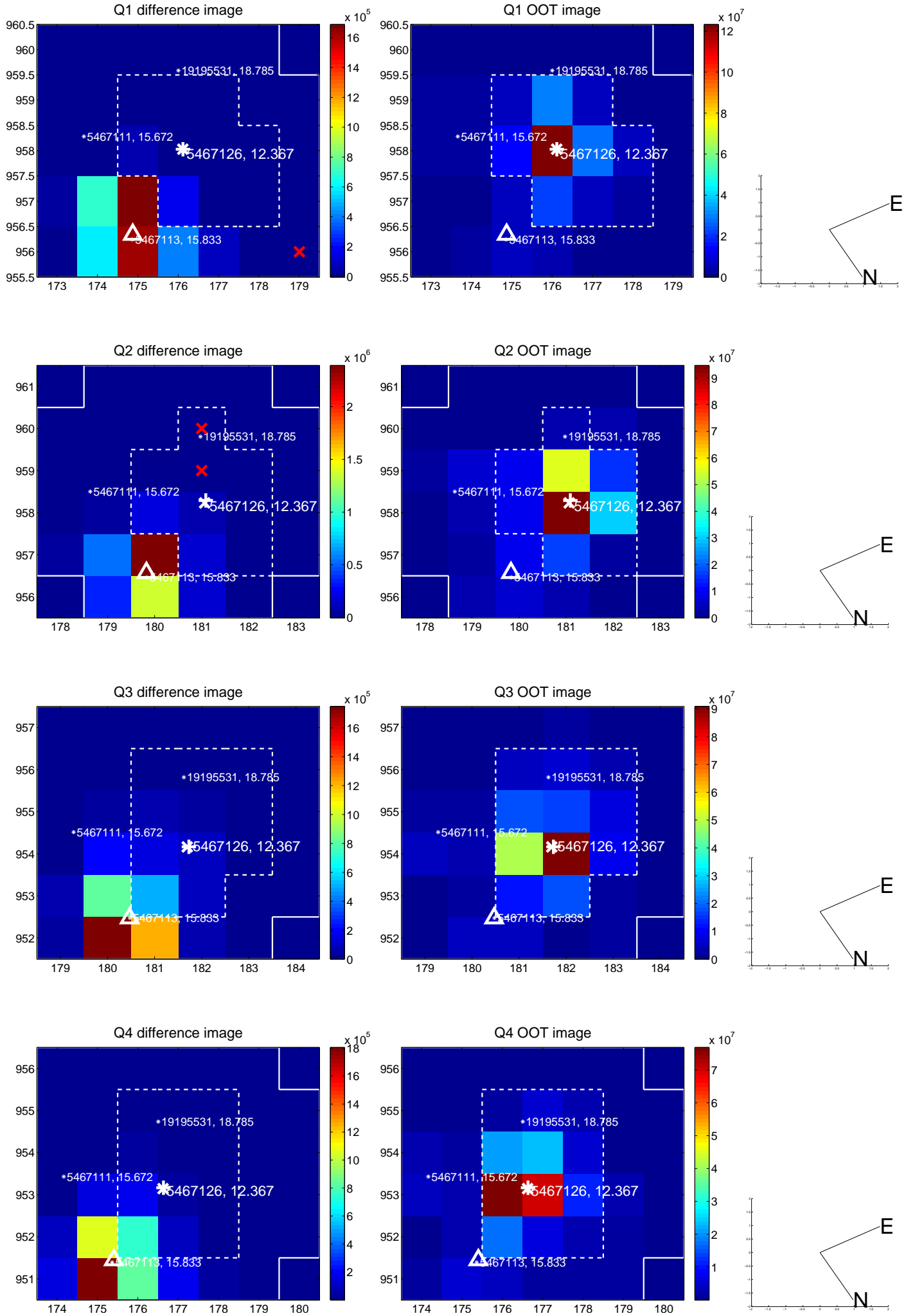
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.374 \pm 0.069	122.05	-7.595 \pm 0.069	3.529 \pm 0.068
PRF-fit source offset from KIC position	8.290 \pm 0.067	123.12	-7.523 \pm 0.067	3.484 \pm 0.068
photometric centroid source offset	54.51 \pm 0.10	567.41	-49.59 \pm 0.10	22.63 \pm 0.06

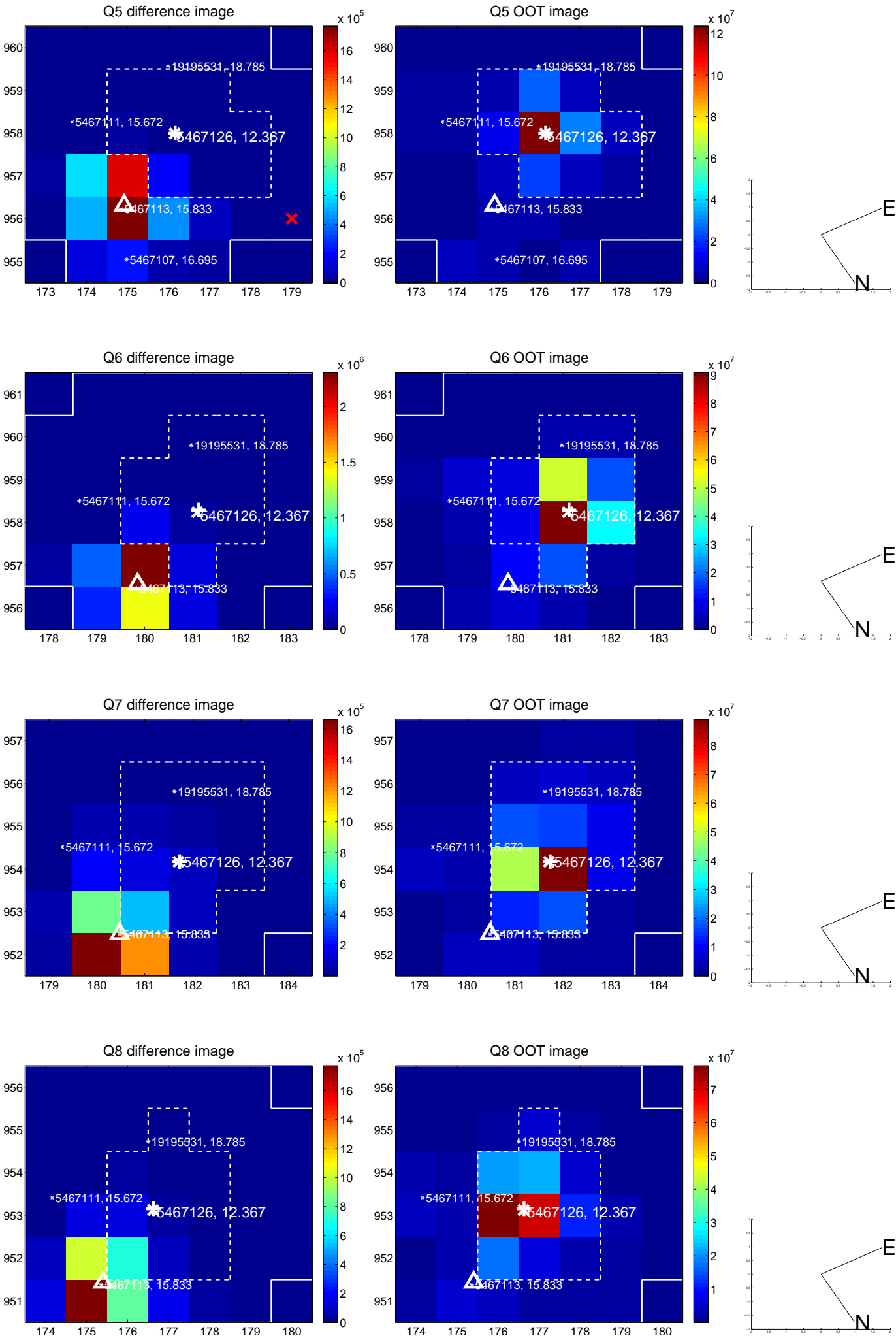


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

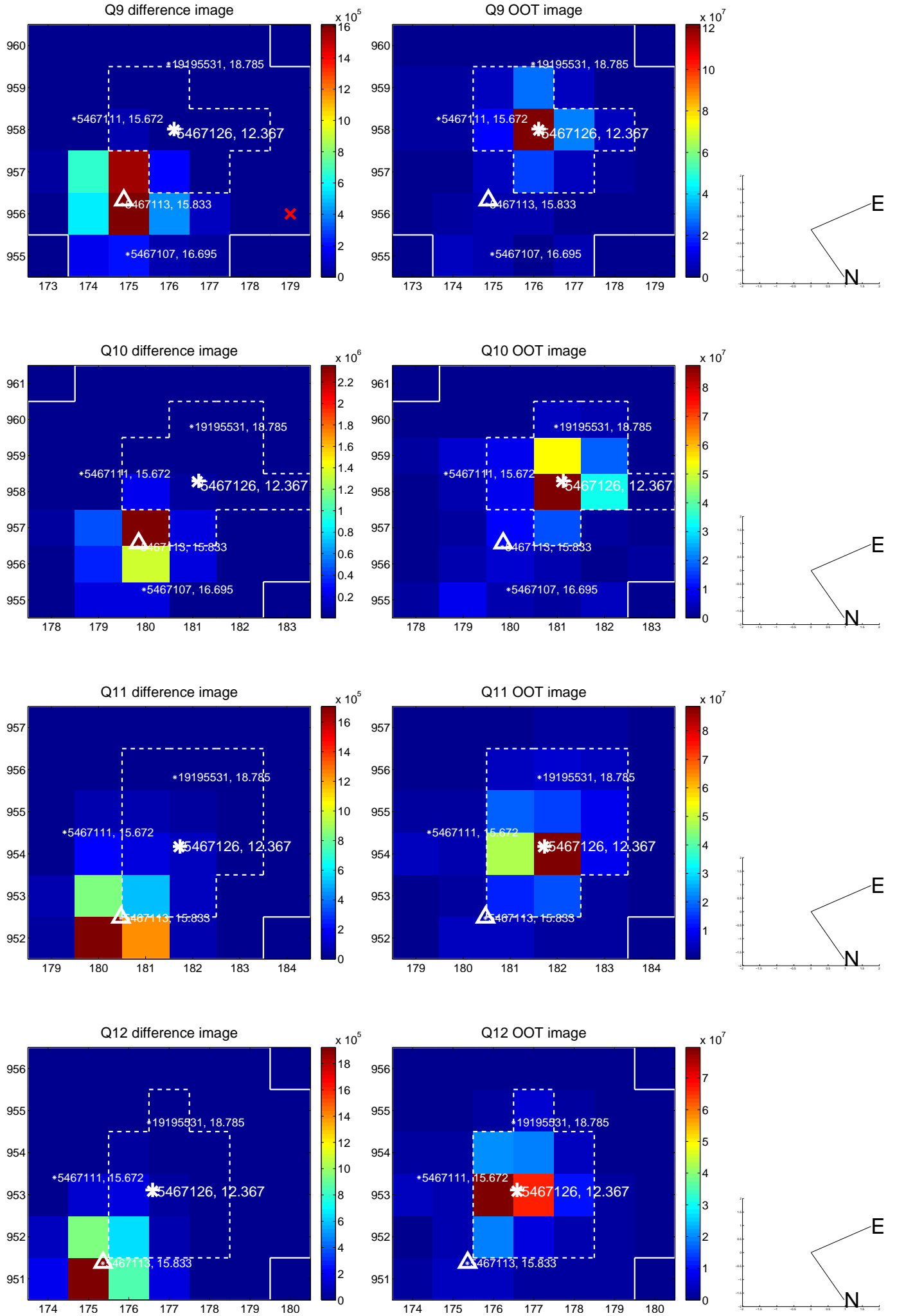
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



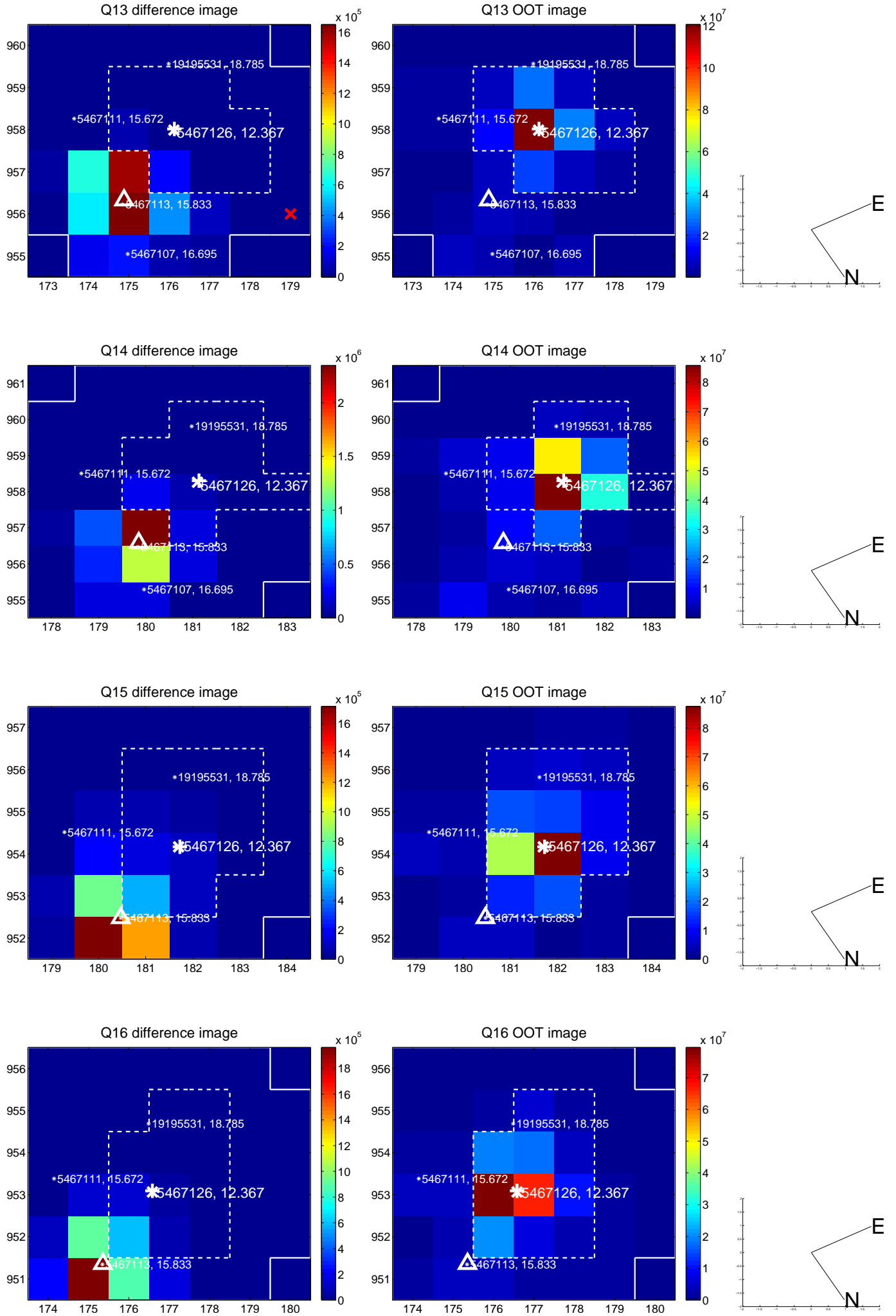
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



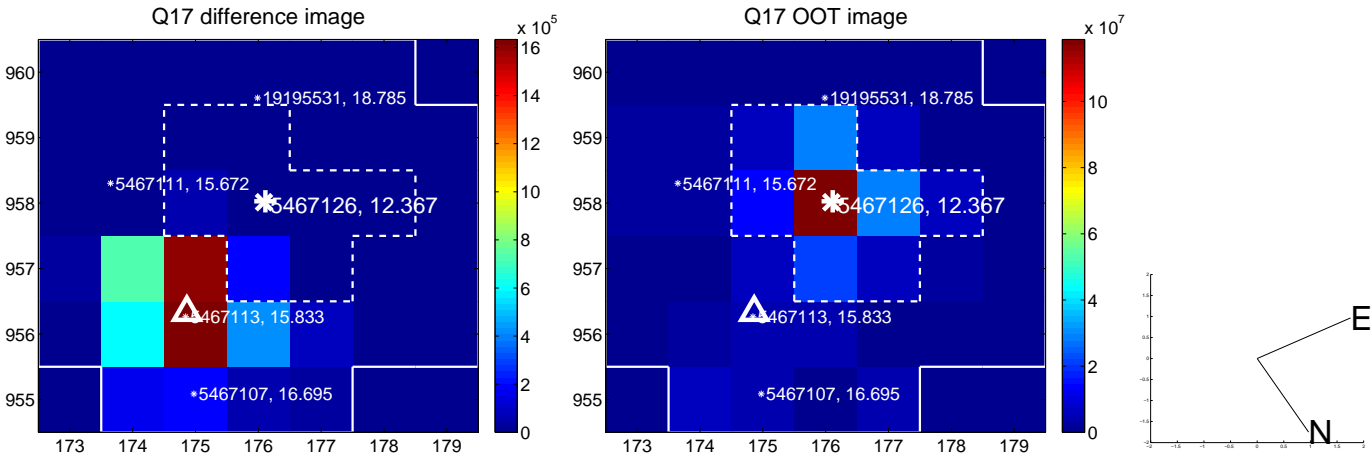
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



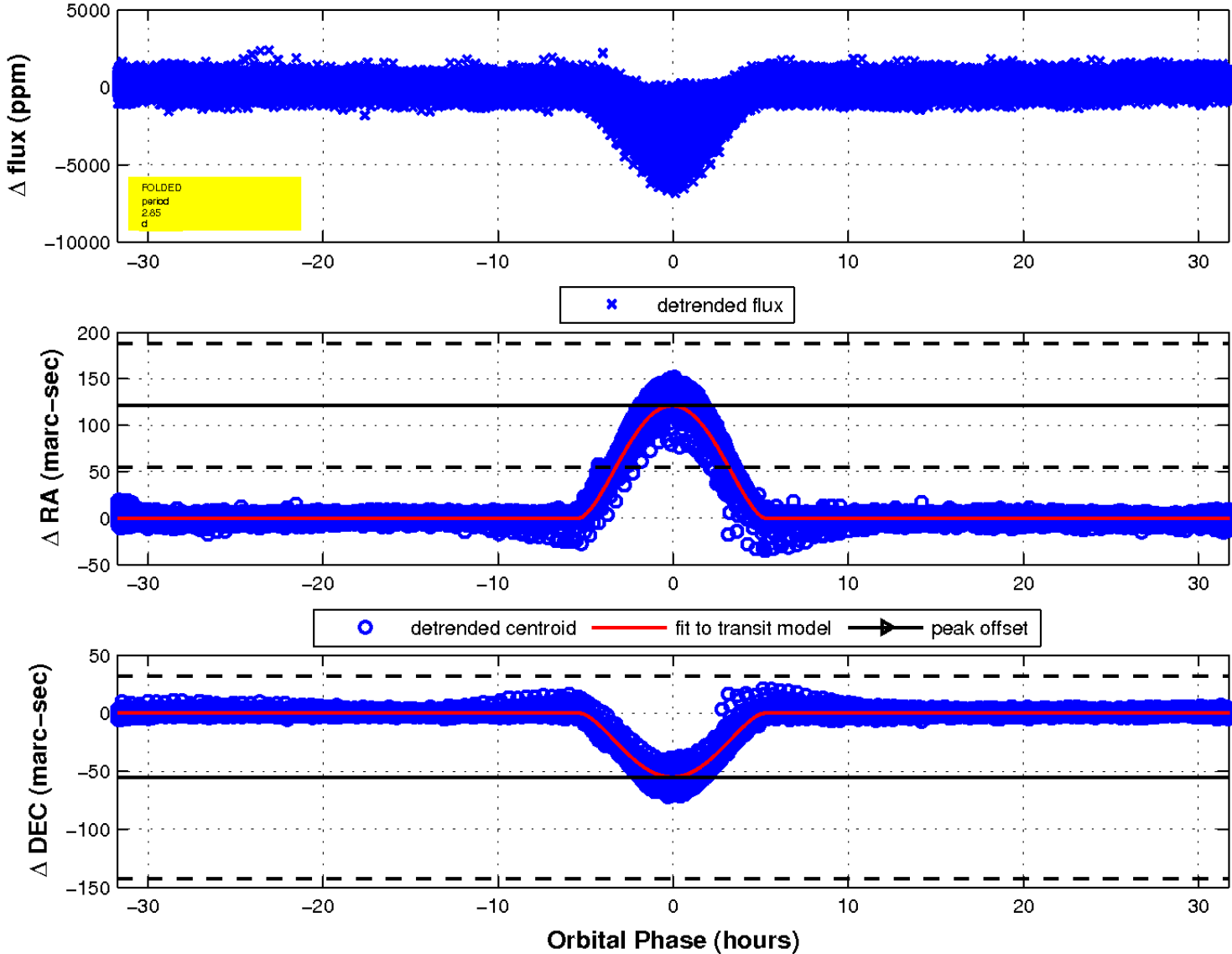
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

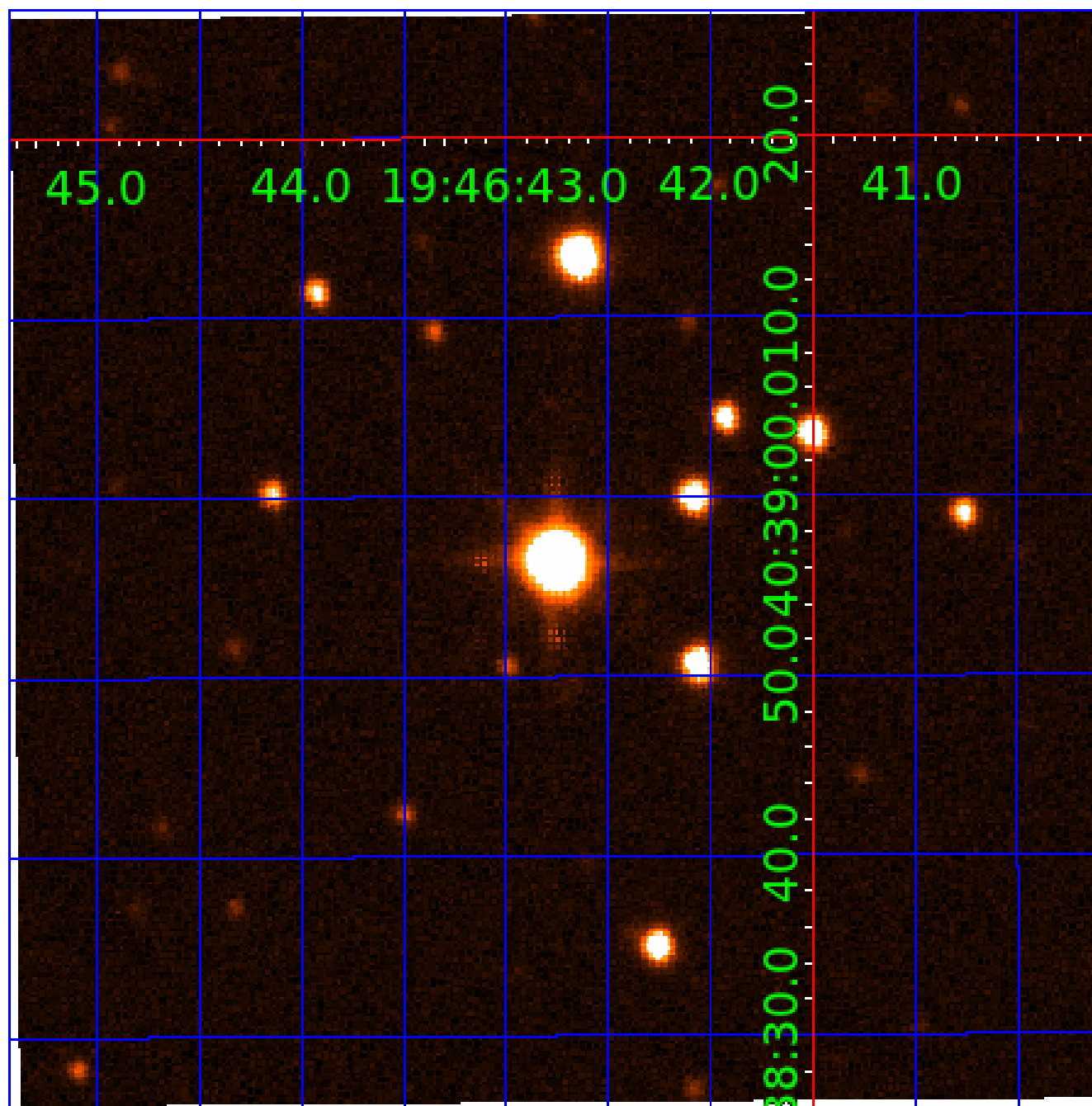


fluxWeightedCentroids, Planet 1 of 8



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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Robovetter Results

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005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005467126-02

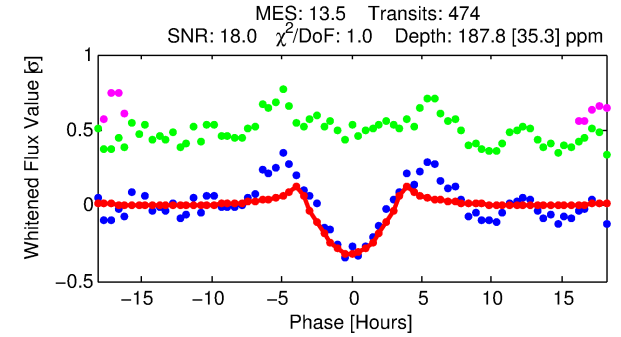
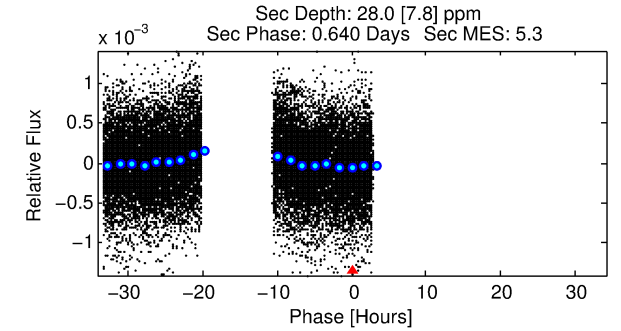
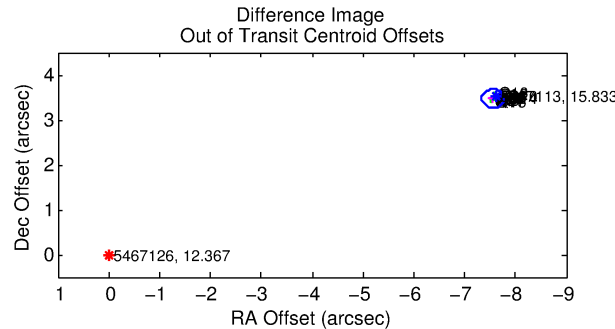
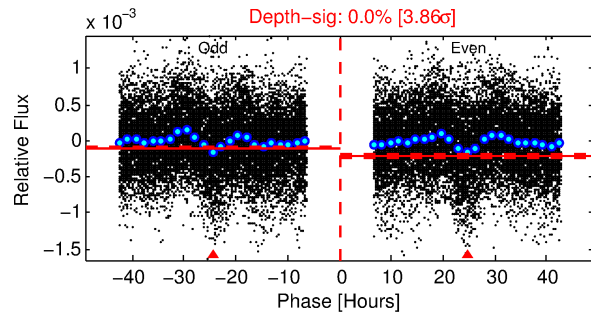
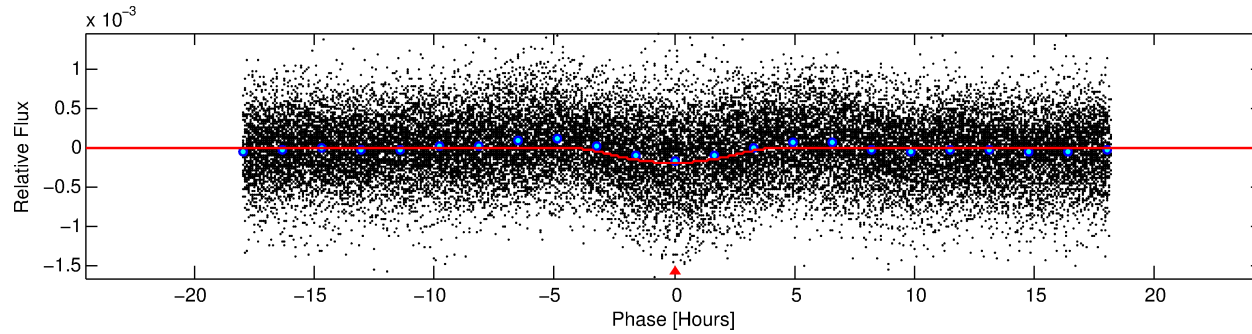
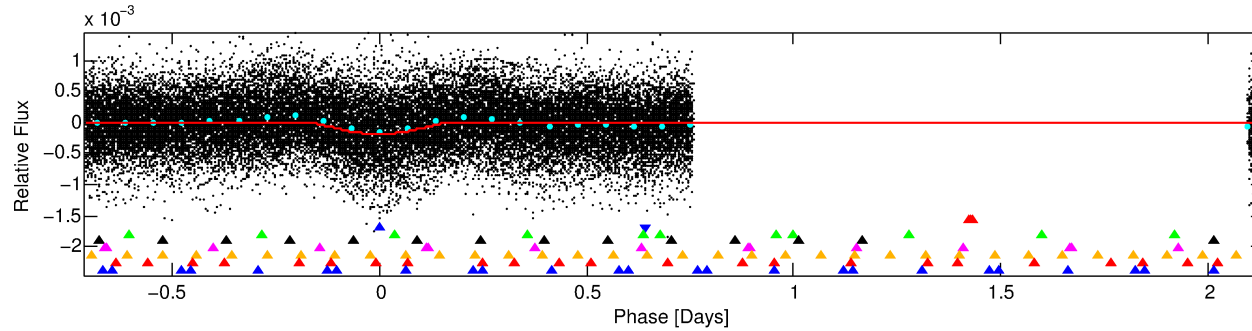
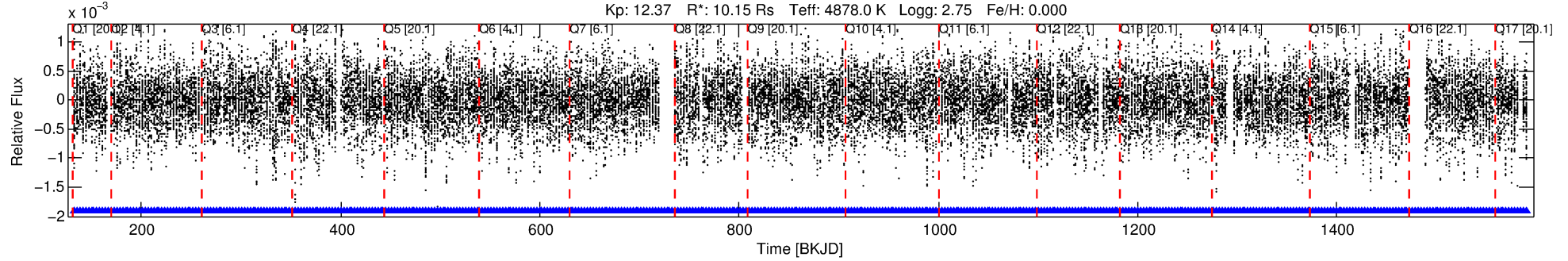
TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
005467126-02	5467126	005467102-02	5467102	1:1	15.8	3	2	15.36	12.37	35.85	Direct-PRF	0	0.78	0.68

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 5467126 Candidate: 2 of 8 Period: 2.846 d
KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



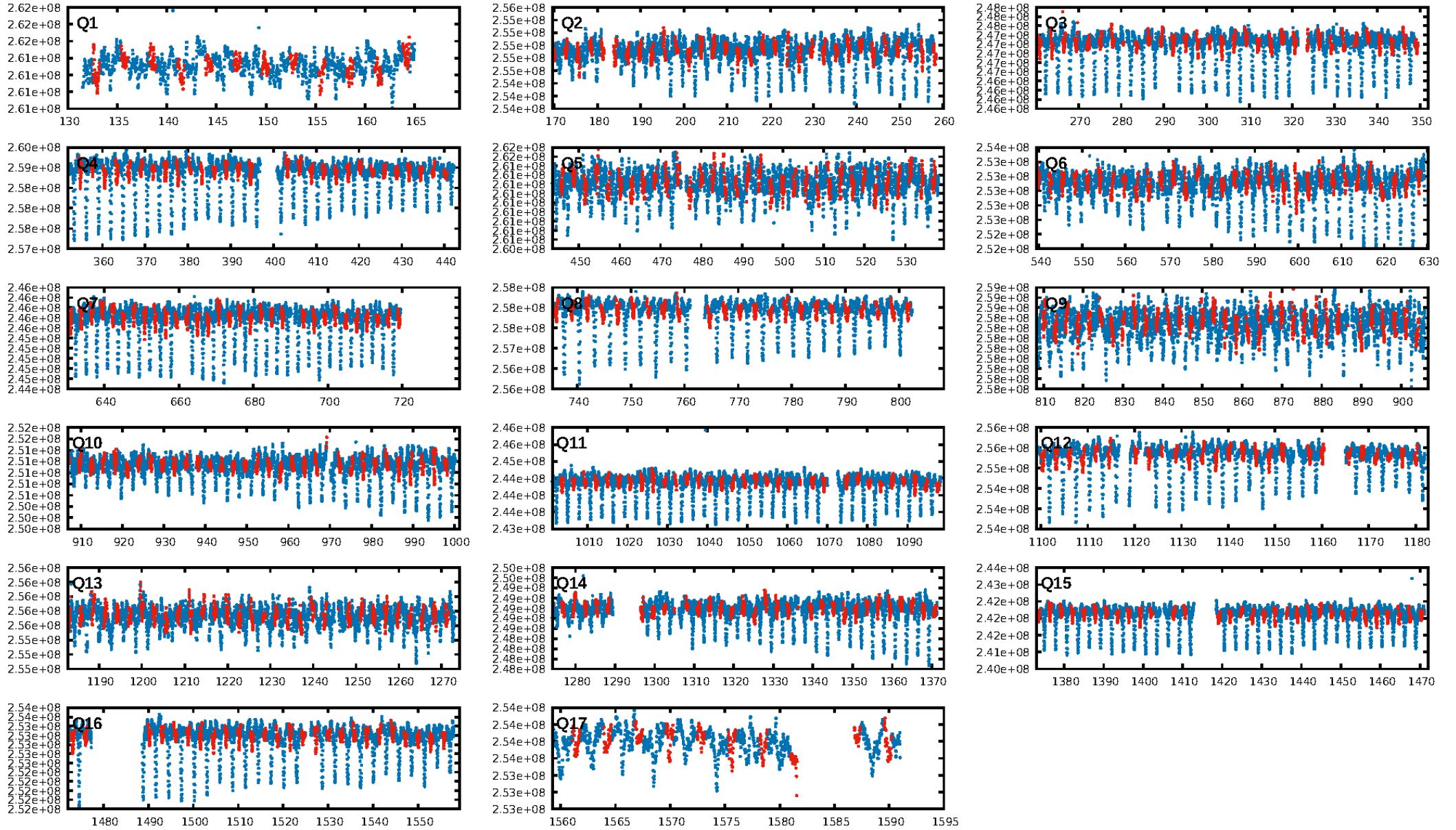
DV Fit Results:

Period = 2.84574 [0.00003] d
Epoch = 132.8528 [0.0067] BKJD
Rp/R* = 0.0272 [0.0248]
a/R* = 1.19 [0.05]
b = 1.00 [0.04]
Seff = 20702.64 [8187.06]
Teq = 3059 [302] K
Rp = 30.19 [29.63] Re
a = 0.0503 [0.0145] AU
Ag = 0.04 [0.08] [-11.93σ]
Teffp = 2150 [989] K [-0.88σ]

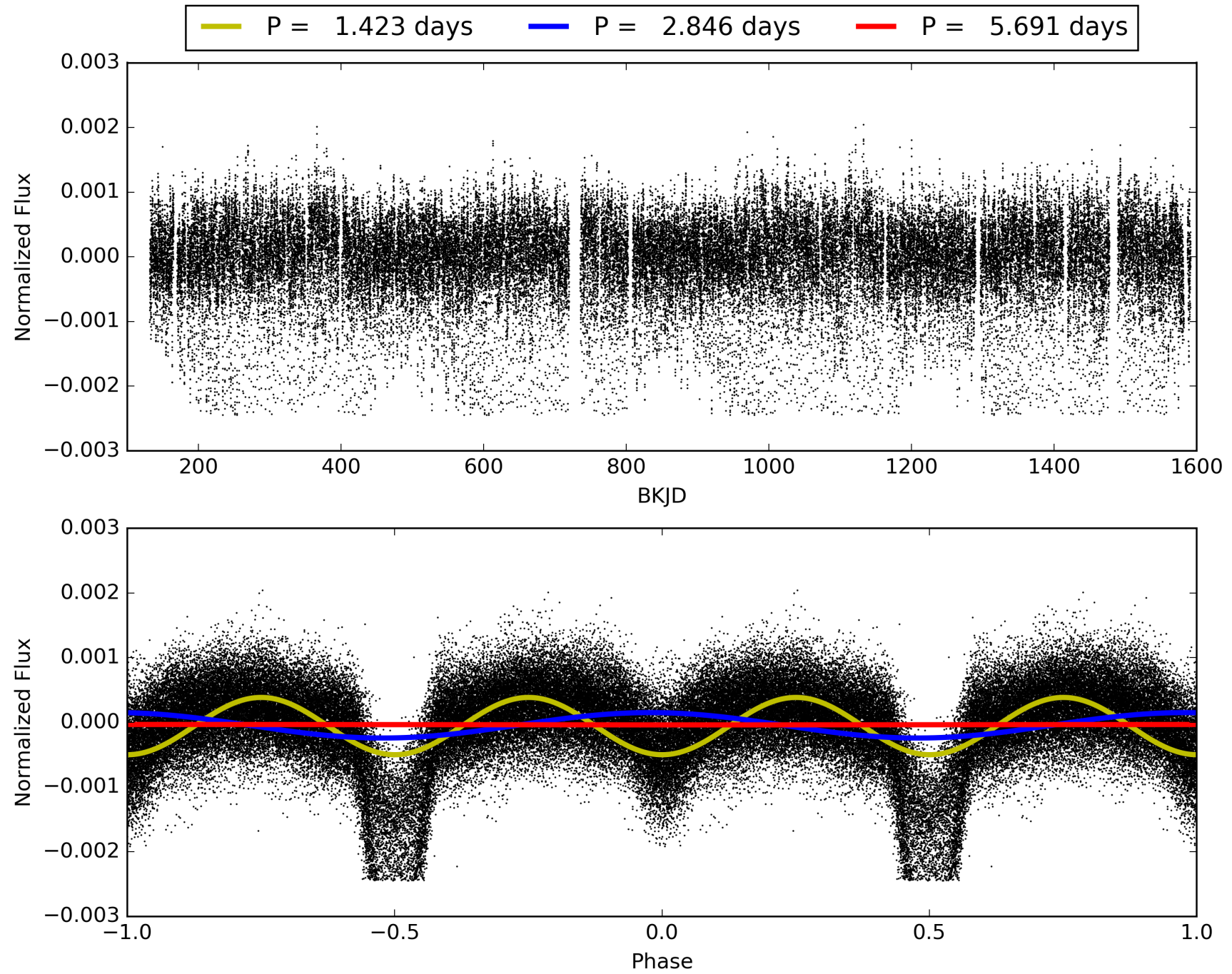
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [110.51σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [452/452]
GhostDiagnostic-chr: -0.43
Centroid-sig: 0.0%
Centroid-so: 81.089 arcsec [68.65σ]
OotOffset-rm: 8.310 arcsec [118.70σ]
KicOffset-rm: 8.226 arcsec [121.76σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 005467126-02, PDC Light Curves

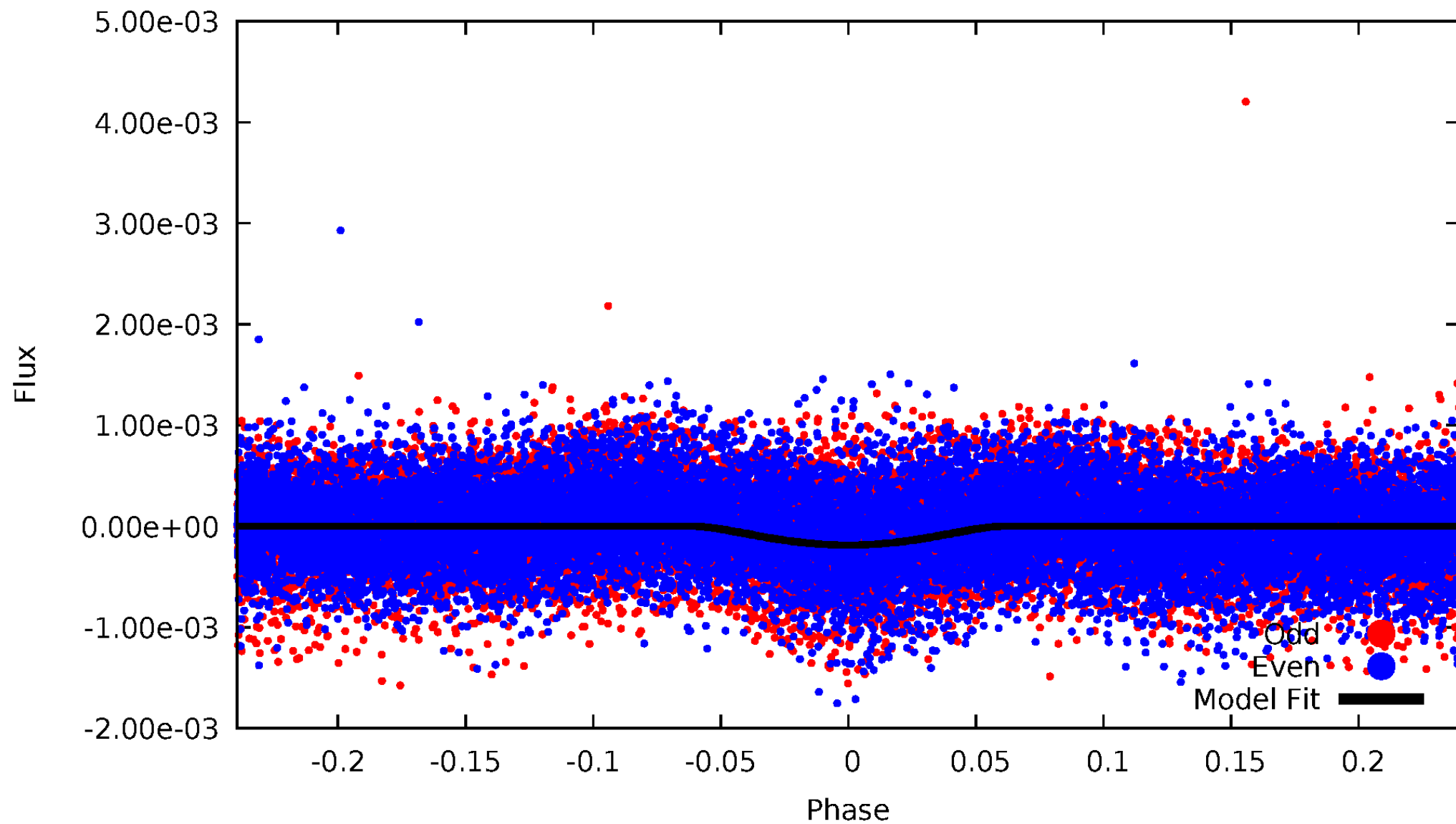


TCE 005467126-02



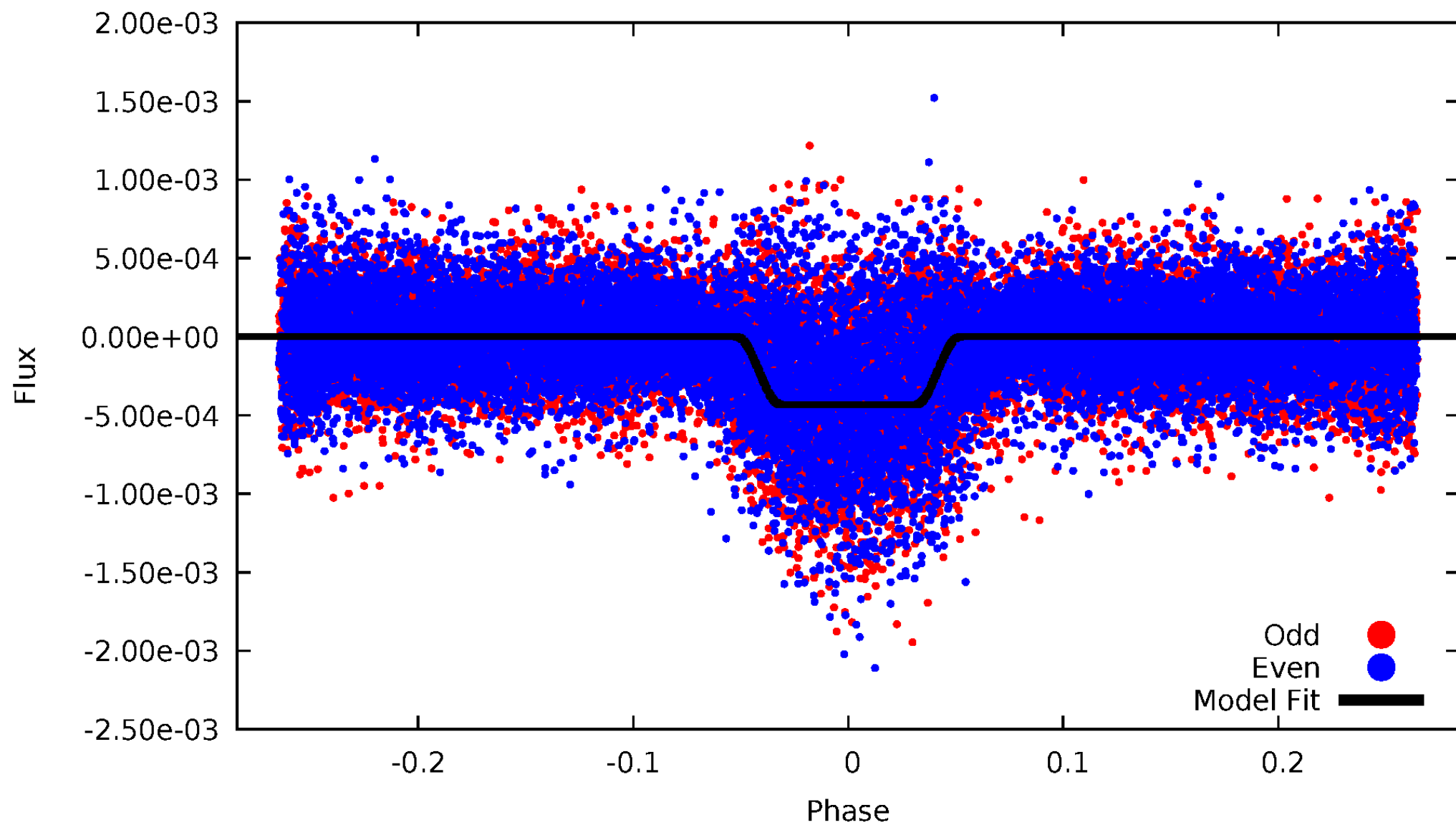
DV Odd/Even

TCE 005467126-02



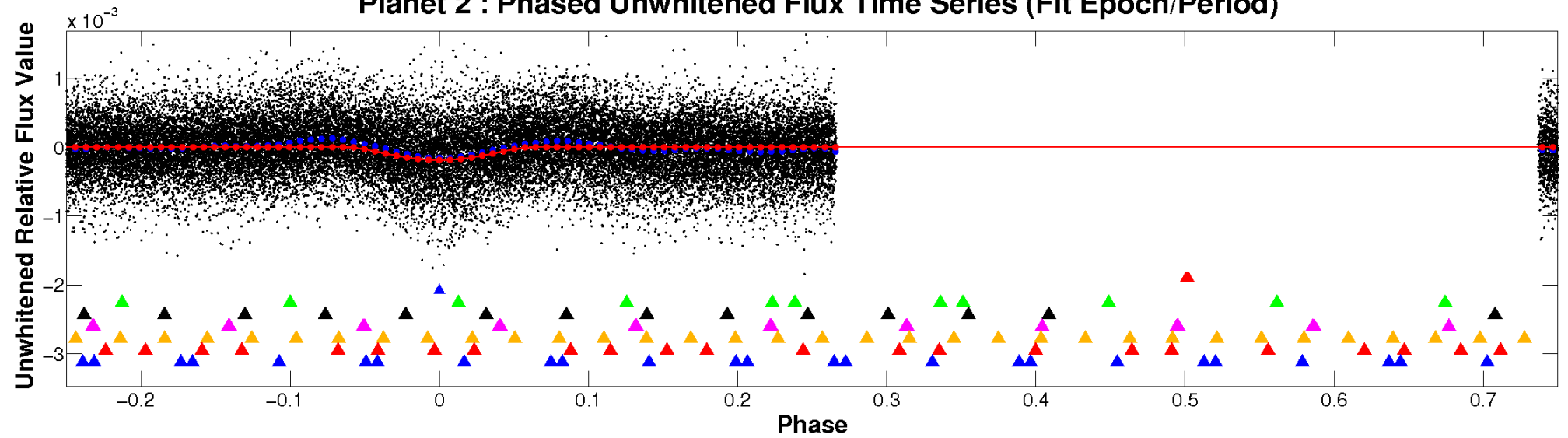
ALT Odd/Even

TCE 005467126-02

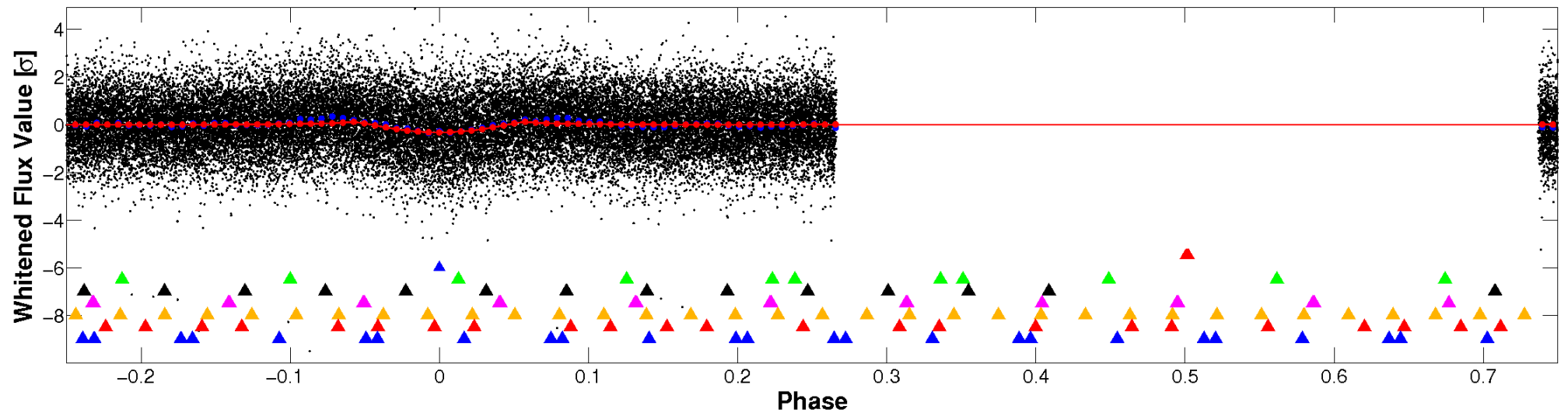


Non-Whitened Vs. Whitened Light Curve

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

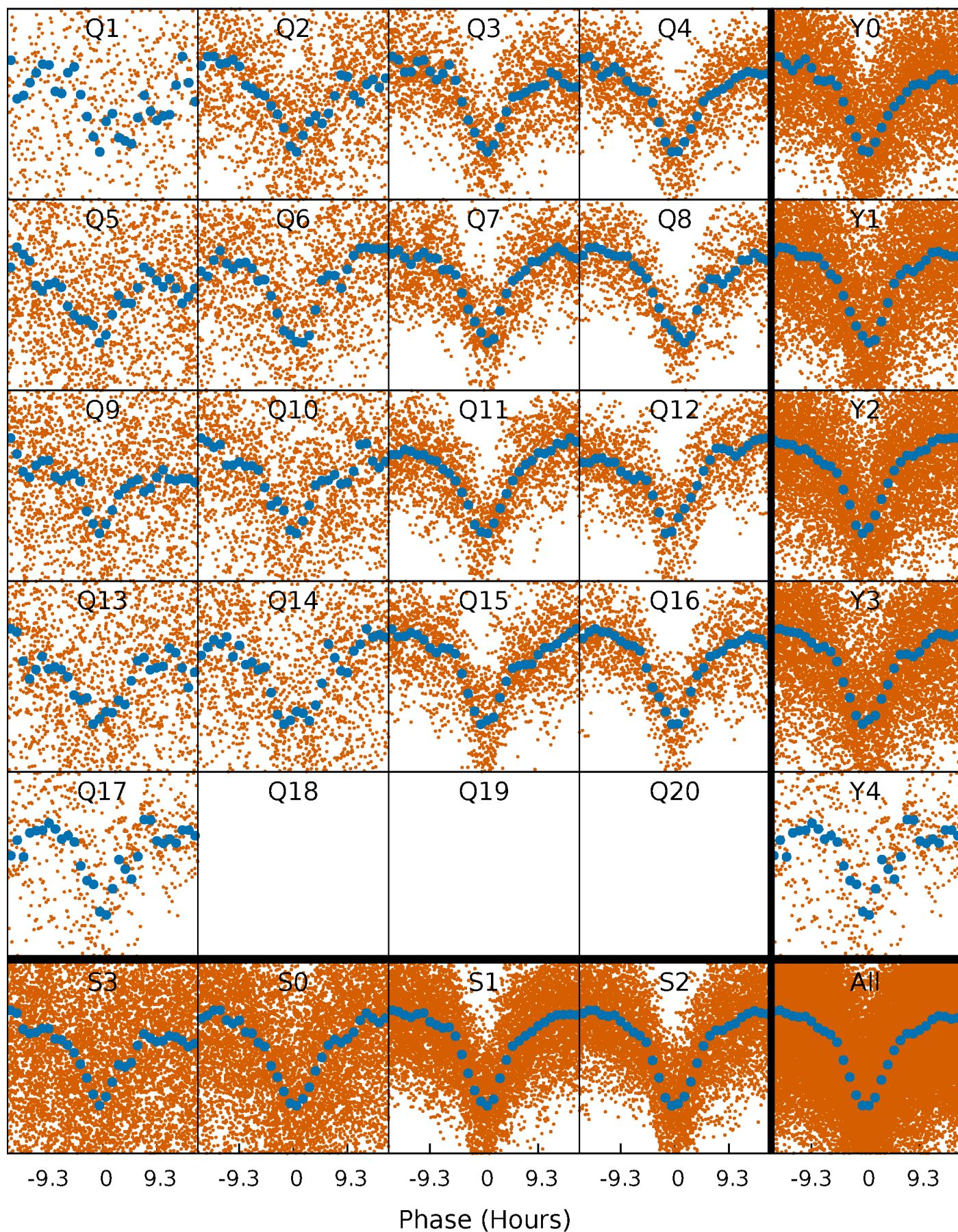


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



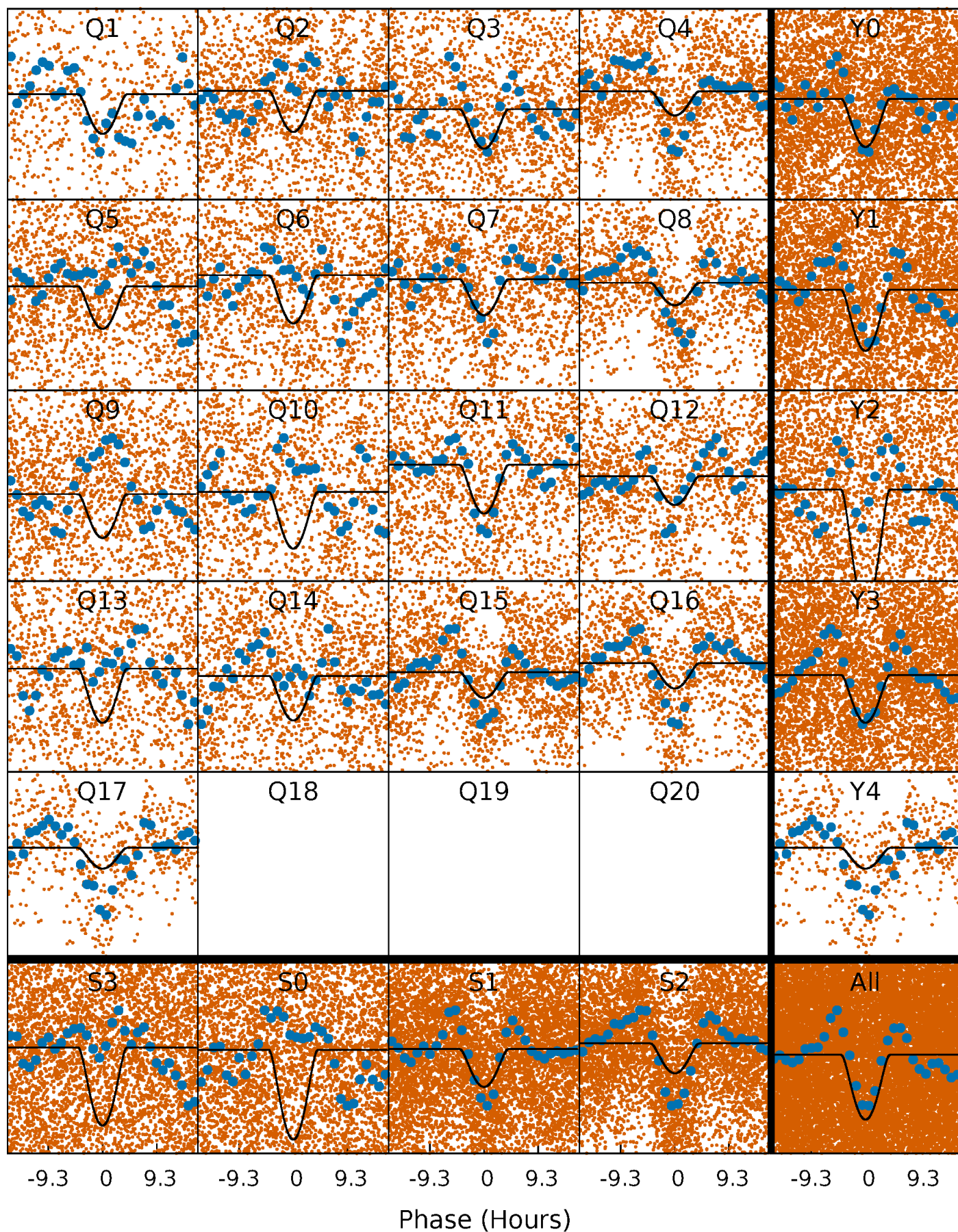
PDC Quarter-Phased Transit Curves

TCE 005467126-02 P= 2.845742 Days $T_0=132.852823$ (BKJD)



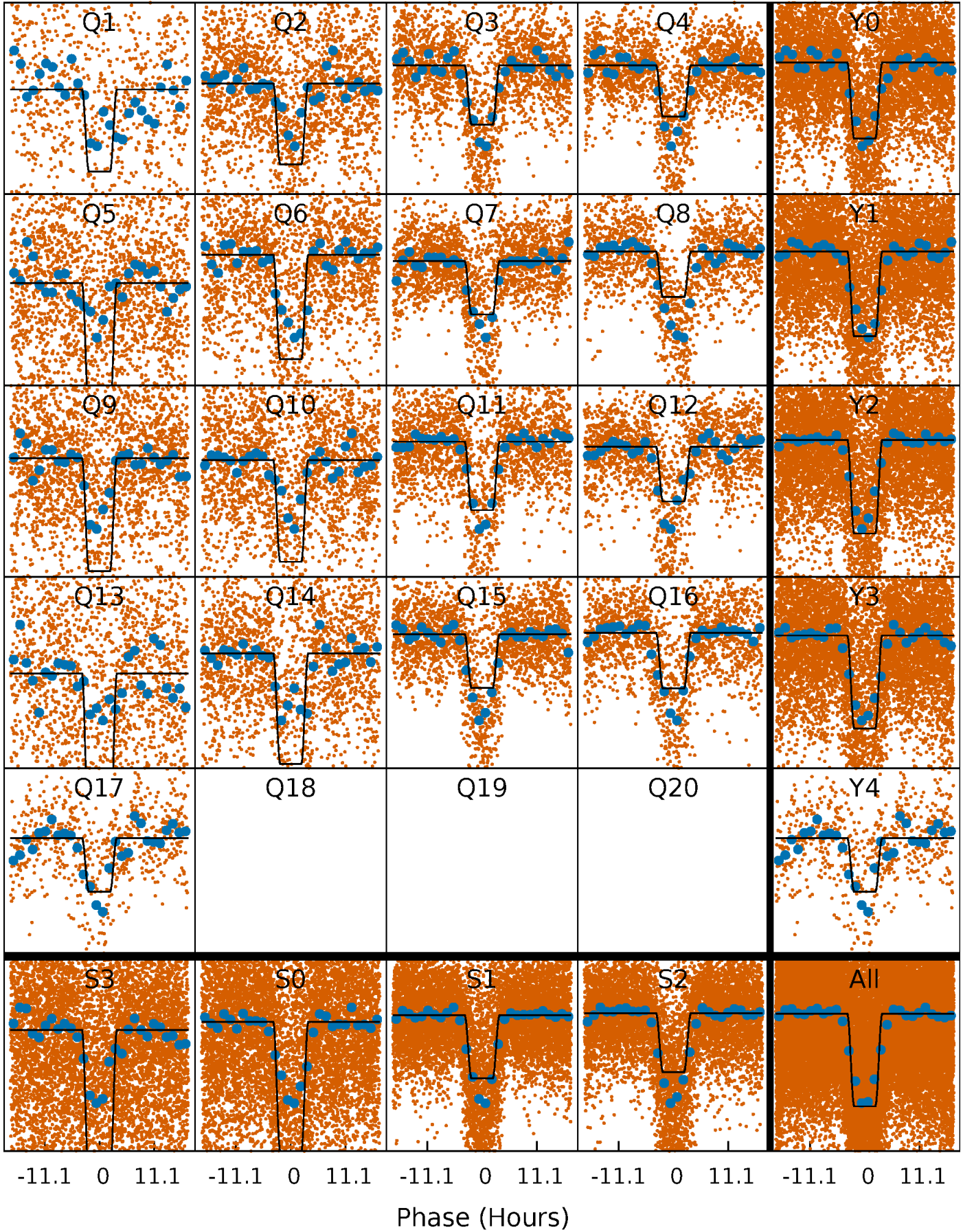
DV Quarter-Phased Transit Curves

TCE 005467126-02 P= 2.845742 Days $T_0=132.852823$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

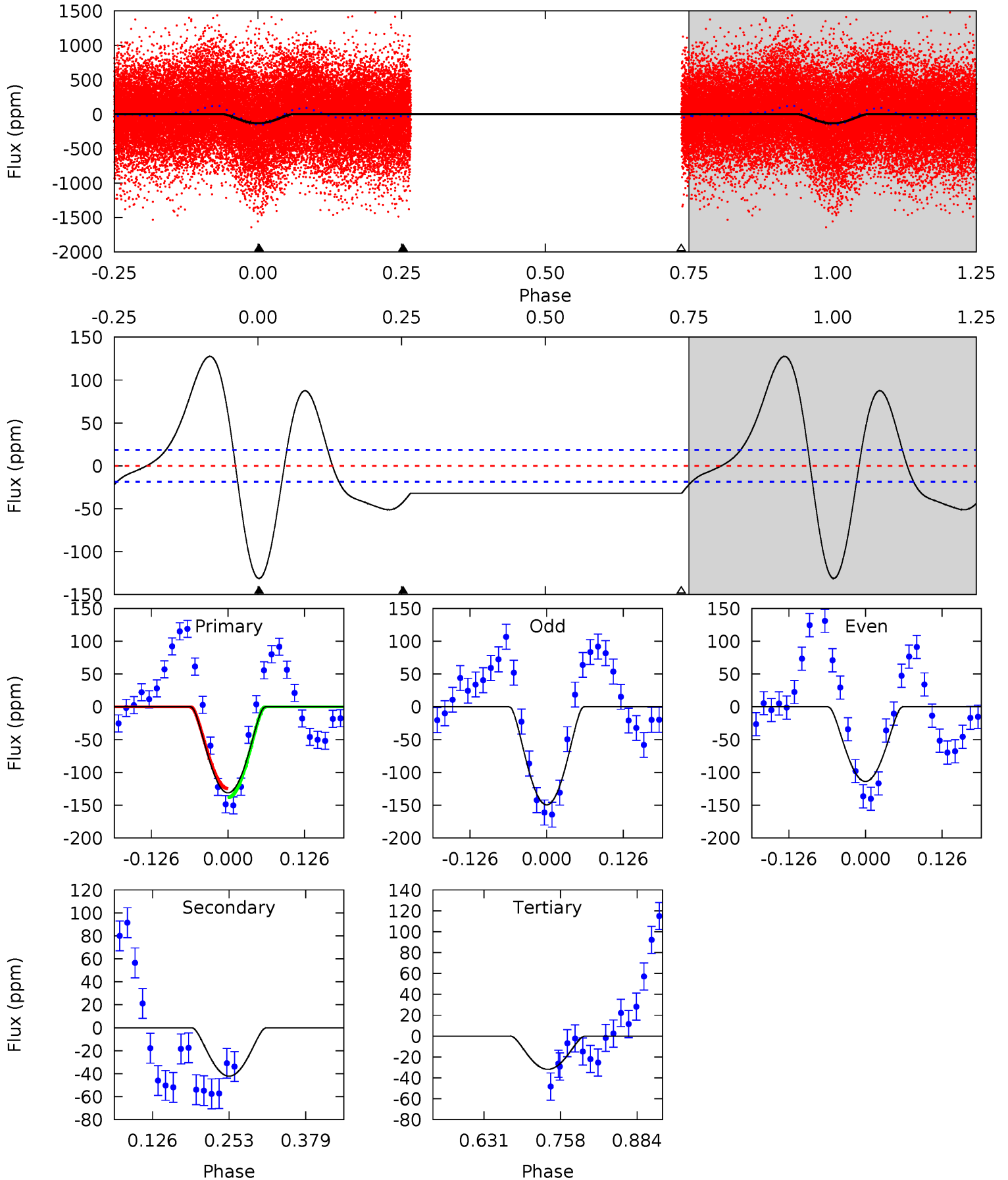
TCE 005467126-02 P= 2.845742 Days $T_0=132.857118$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-02, P = 2.845742 Days, E = 130.007081 Days

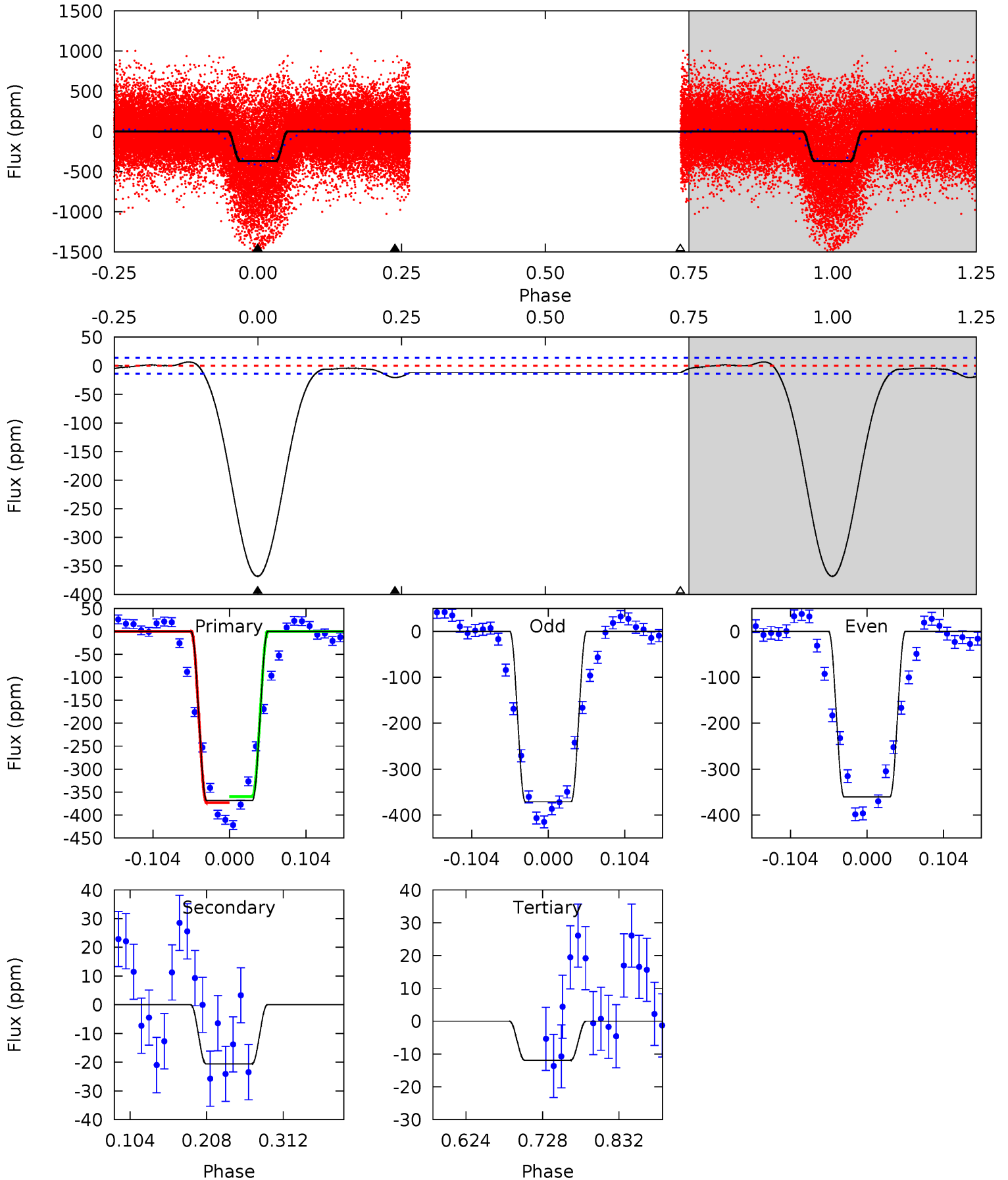
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
31.9	10.3	7.75	0	4.52	1.53	5.83	24.2	31.9	2.51	10.3	4.36	1.00	0.49	1.62



Alt Model-Shift Uniqueness Test

005467126-02, P = 2.845742 Days, E = 130.011376 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
120.1	6.71	3.89	0	4.56	1.63	1.39	116.2	120.1	2.82	6.71	1.73	1.04	0.02	2.20



Stellar Parameters For KIC 005467126

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-42 ± 4	$34.36^{+26.40}_{-20.80}$	4211^{+252}_{-285}	-3589^{+6028}_{-217}	$0.050^{+0.265}_{-0.033}$
Alt.	-21 ± 3	$28.68^{+25.64}_{-18.12}$	4196^{+256}_{-288}	-3620^{+981}_{-215}	$0.036^{+0.237}_{-0.025}$

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 $A_{obs} \gg 1.0$

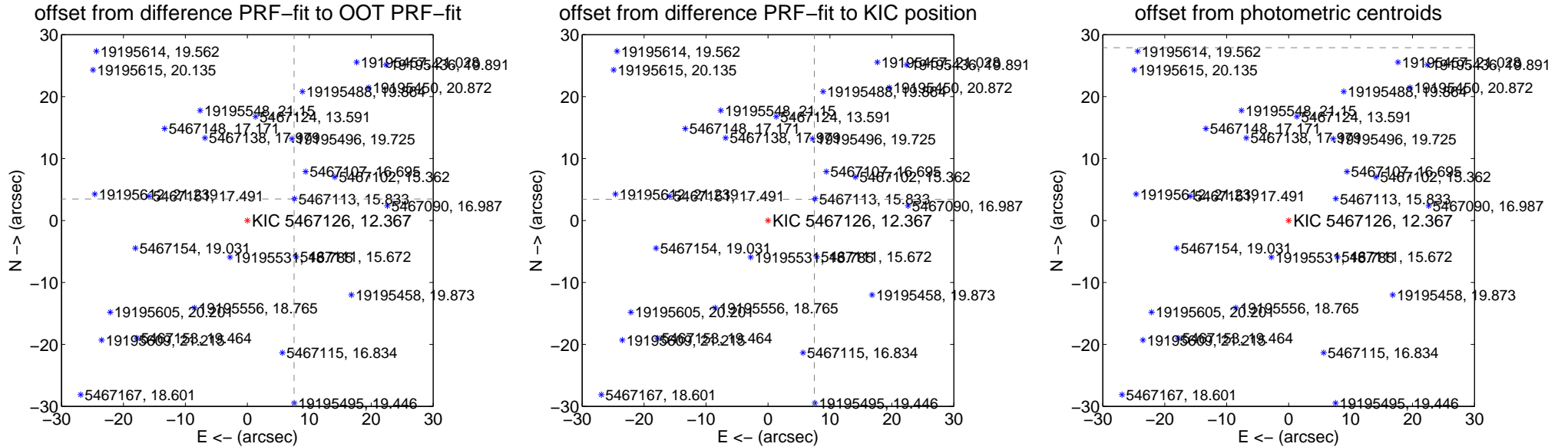
DV Centroid Data

Supplemental centroid analysis for 005467126-02. Kepler magnitude: 12.37. Transit SNR 18.05

There are 17 quarters with good PRF difference image offsets

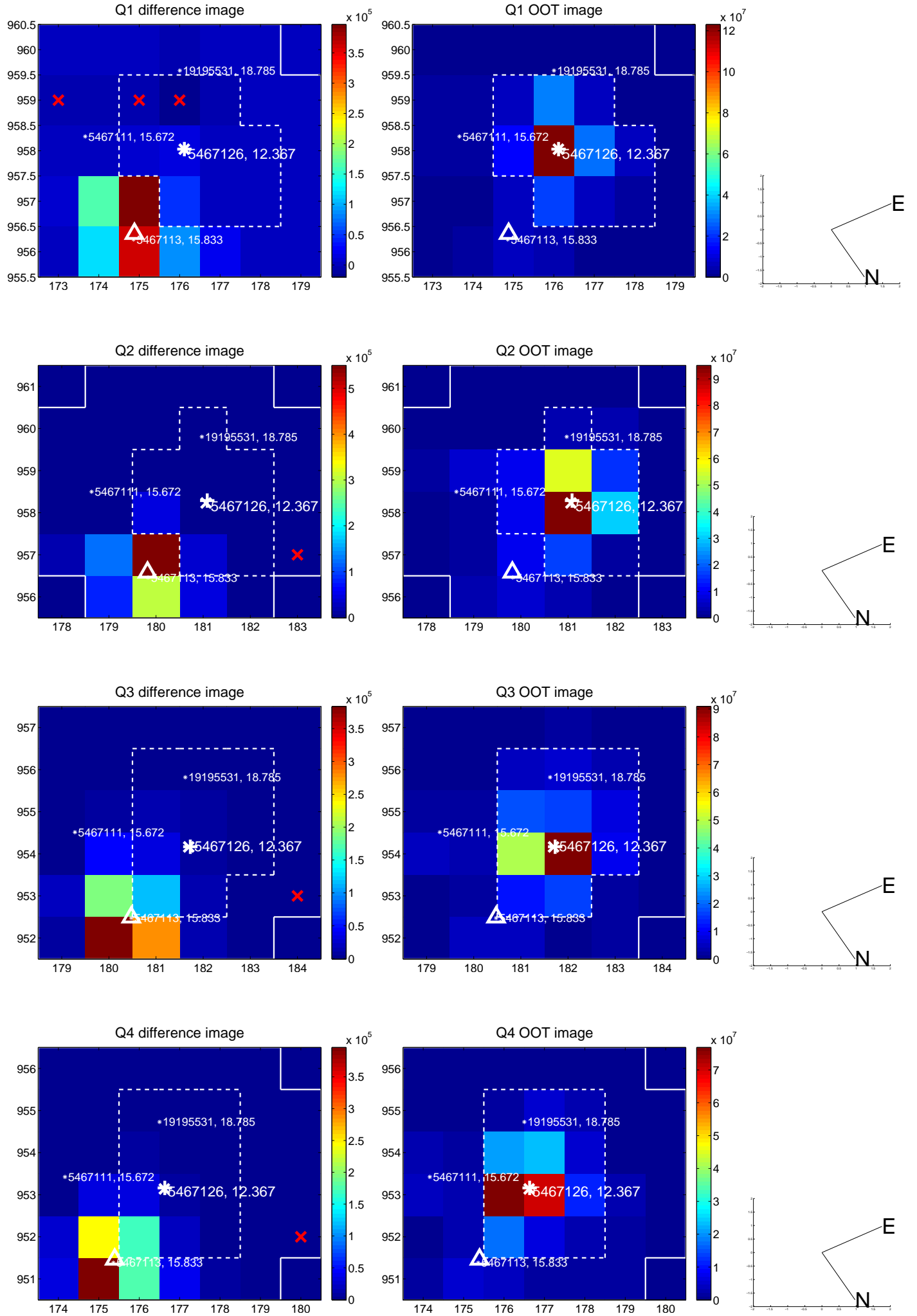
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.310 \pm 0.070	118.70	-7.550 \pm 0.070	3.472 \pm 0.068
PRF-fit source offset from KIC position	8.226 \pm 0.068	121.76	-7.477 \pm 0.067	3.430 \pm 0.068
photometric centroid source offset	81.08 \pm 1.18	68.65	-76.13 \pm 1.23	27.89 \pm 0.66

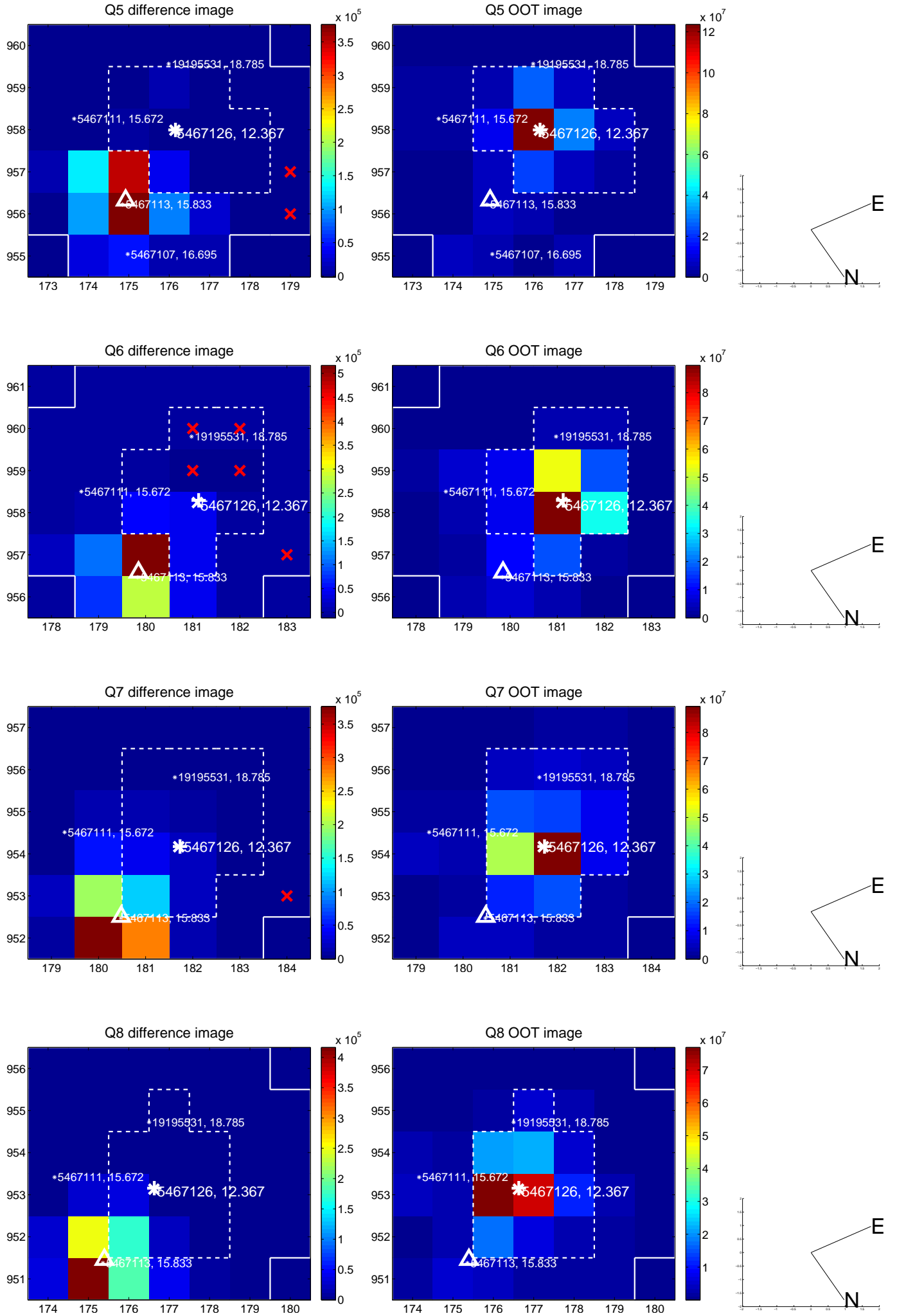


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

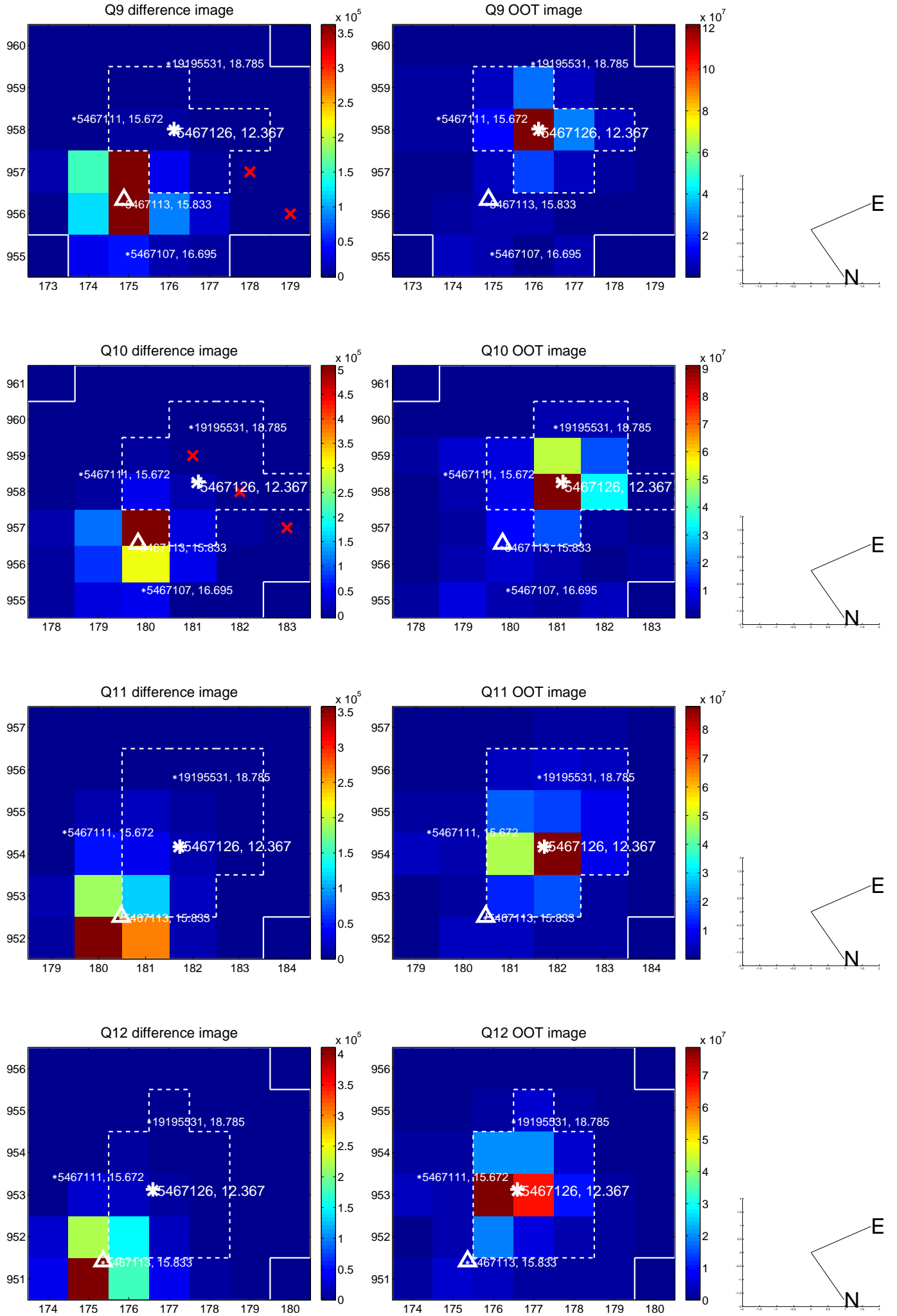
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



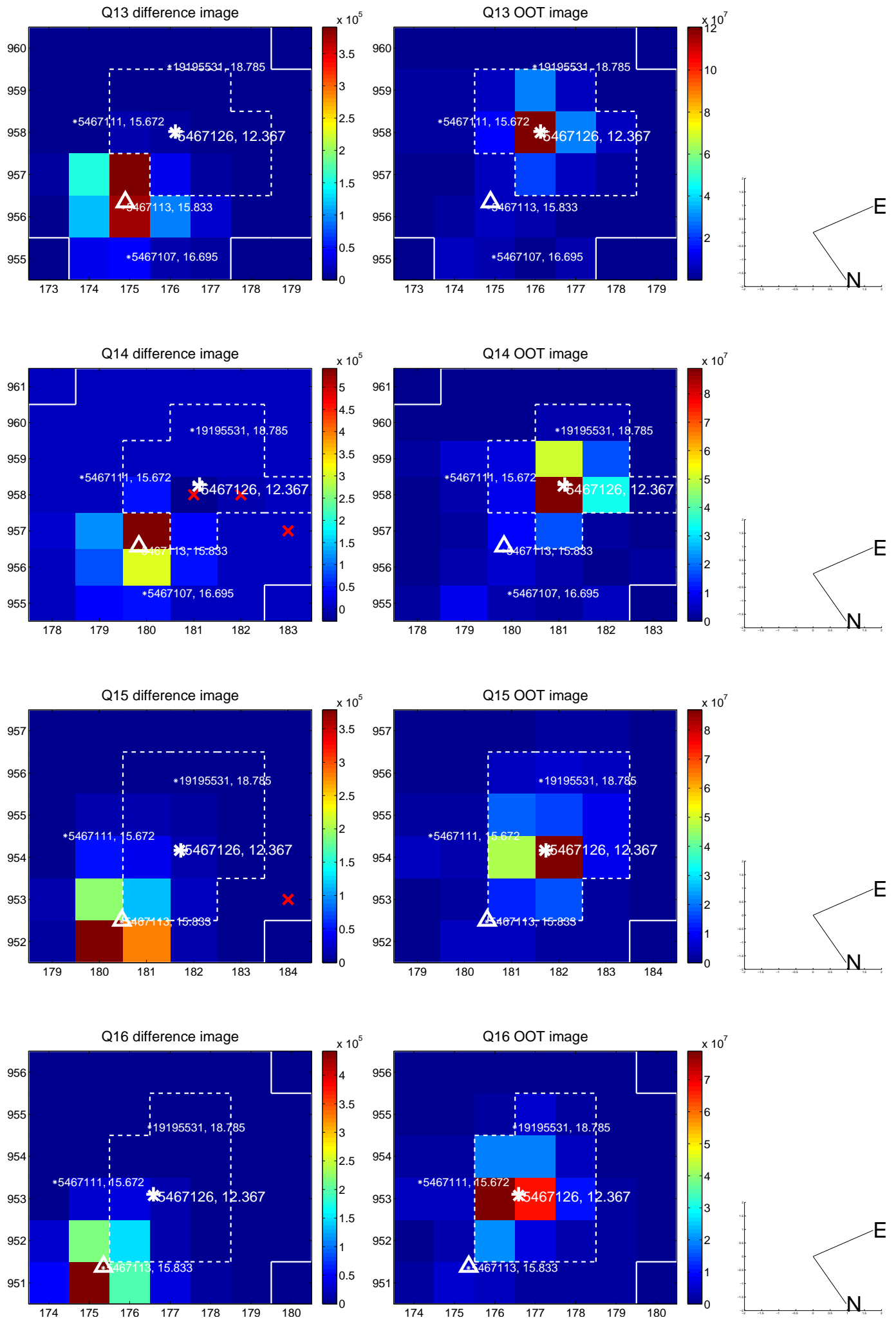
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



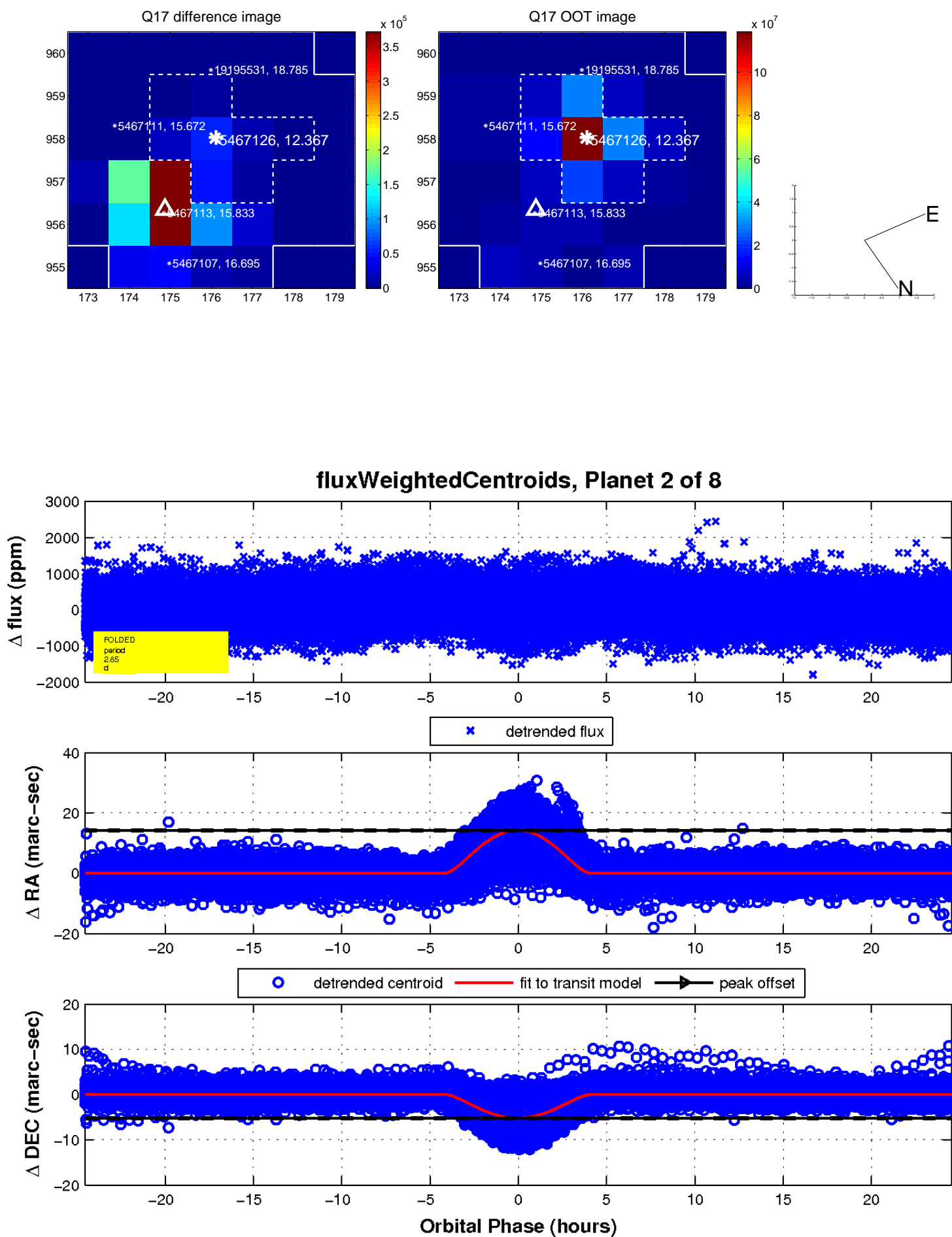
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

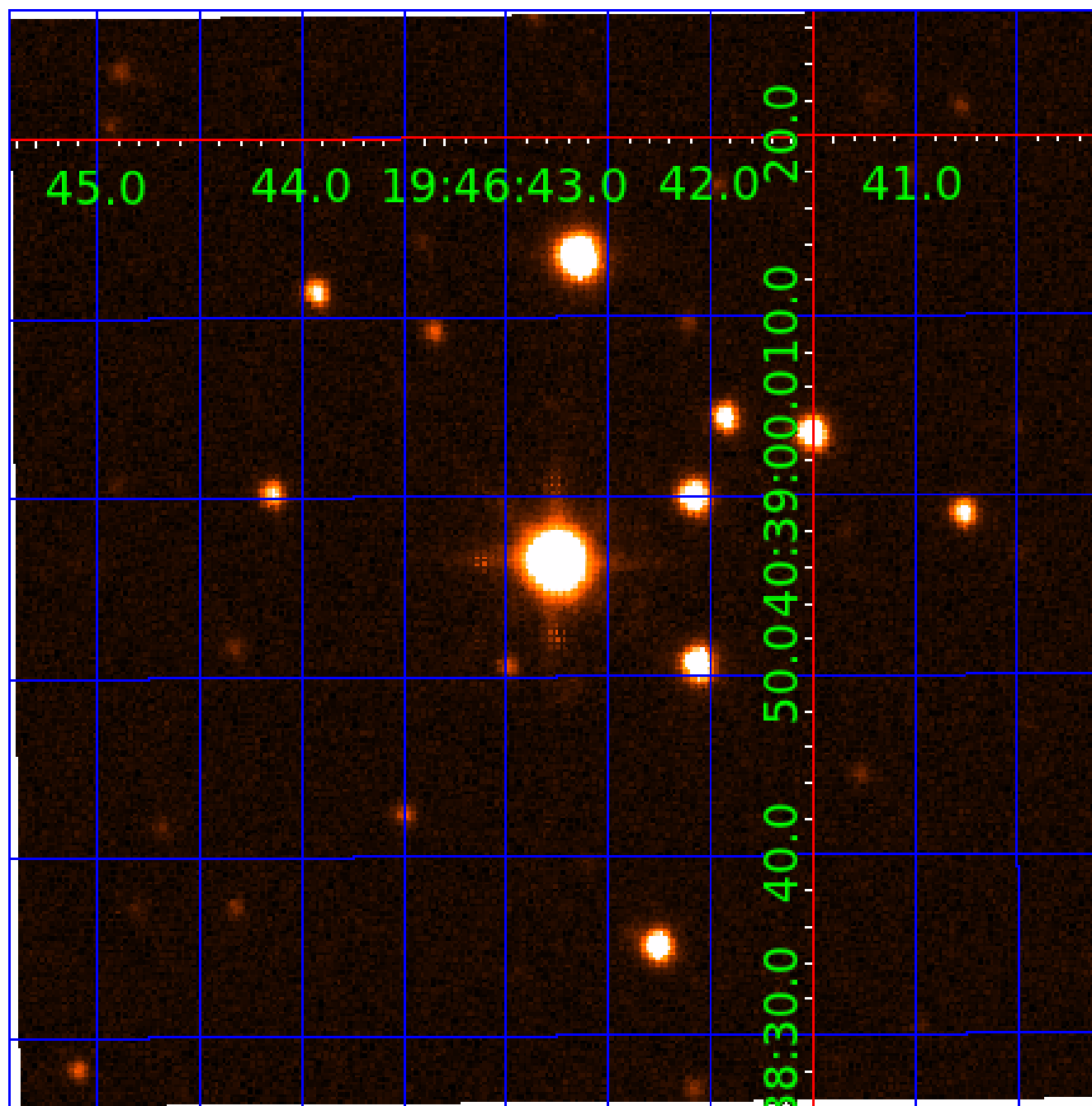


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

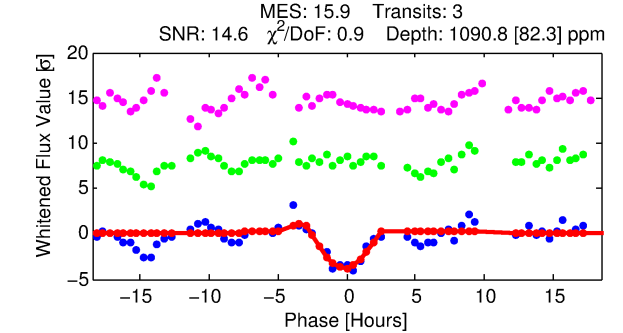
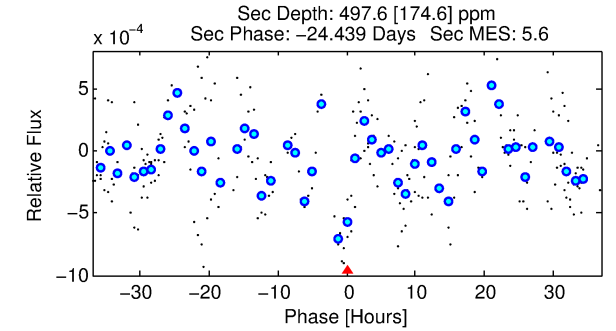
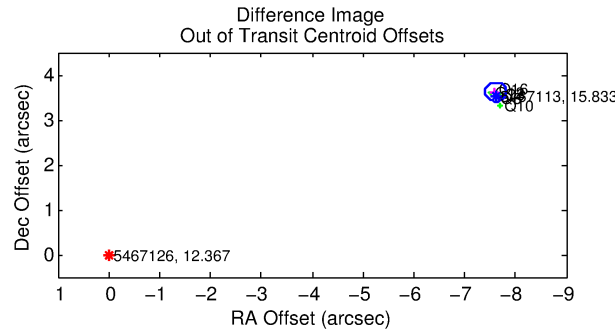
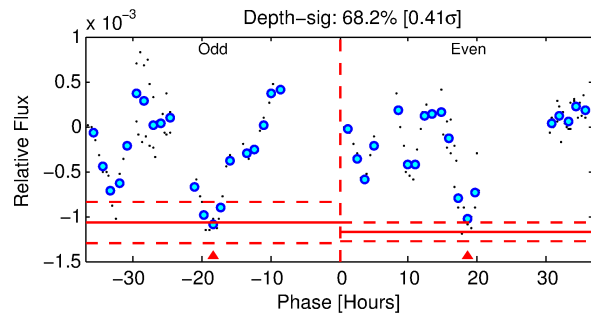
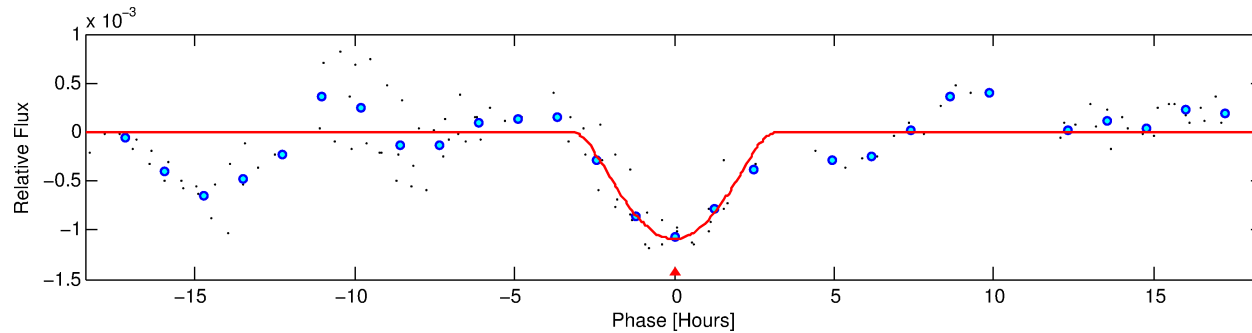
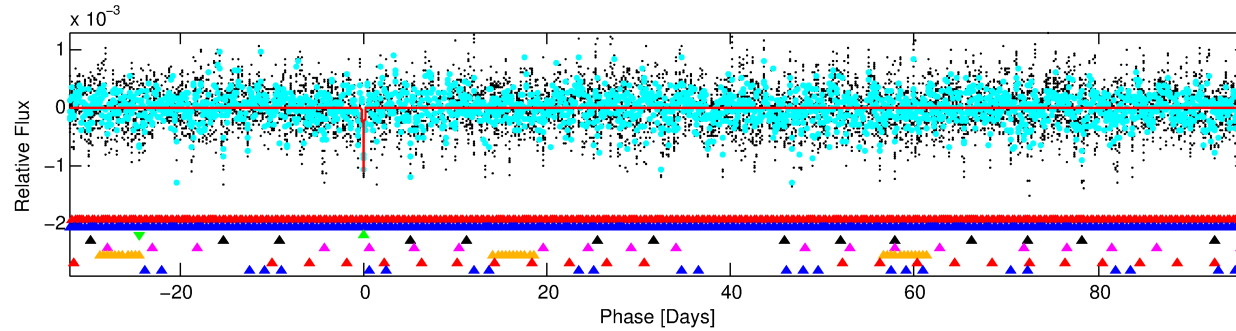
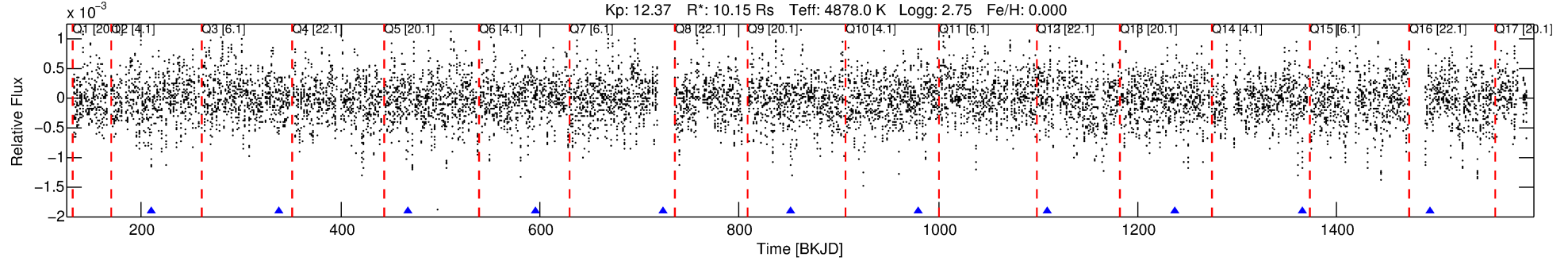
Ephemeris Match Information For 005467126-03

No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 3 of 8 Period: 128.379 d
KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



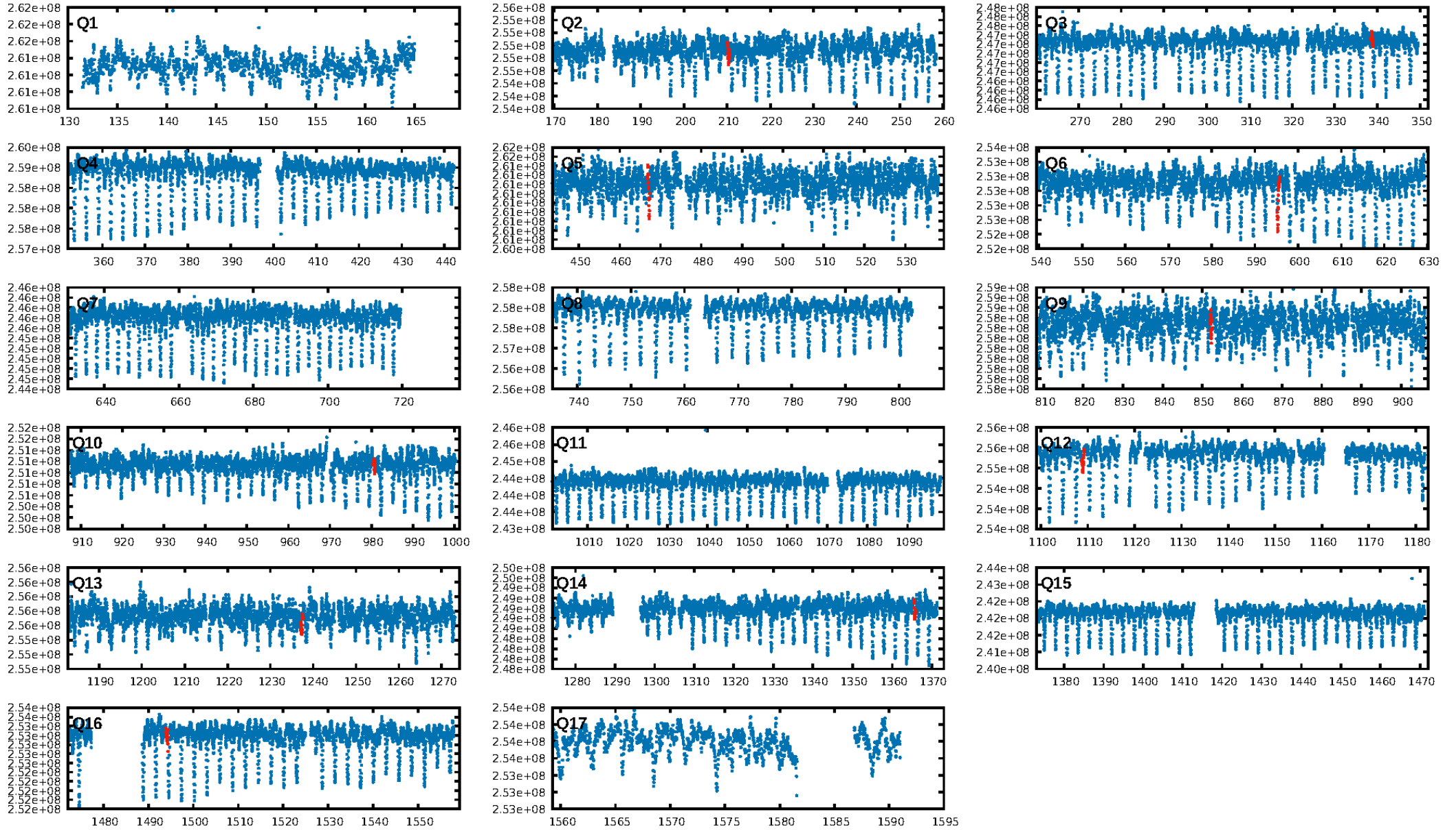
DV Fit Results:

Period = 128.37934 [0.00130] d
Epoch = 210.3233 [0.0071] BKJD
Rp/R* = 0.0558 [0.0831]
a/R* = 58.07 [24.06]
b = 0.99 [0.13]
Seff = 128.91 [50.98]
Teq = 859 [85] K
Rp = 61.84 [94.83] Re
a = 0.6370 [0.1838] AU
Ag = 29.04 [87.76] [0.32σ]
Teff = 3084 [2311] K [0.96σ]

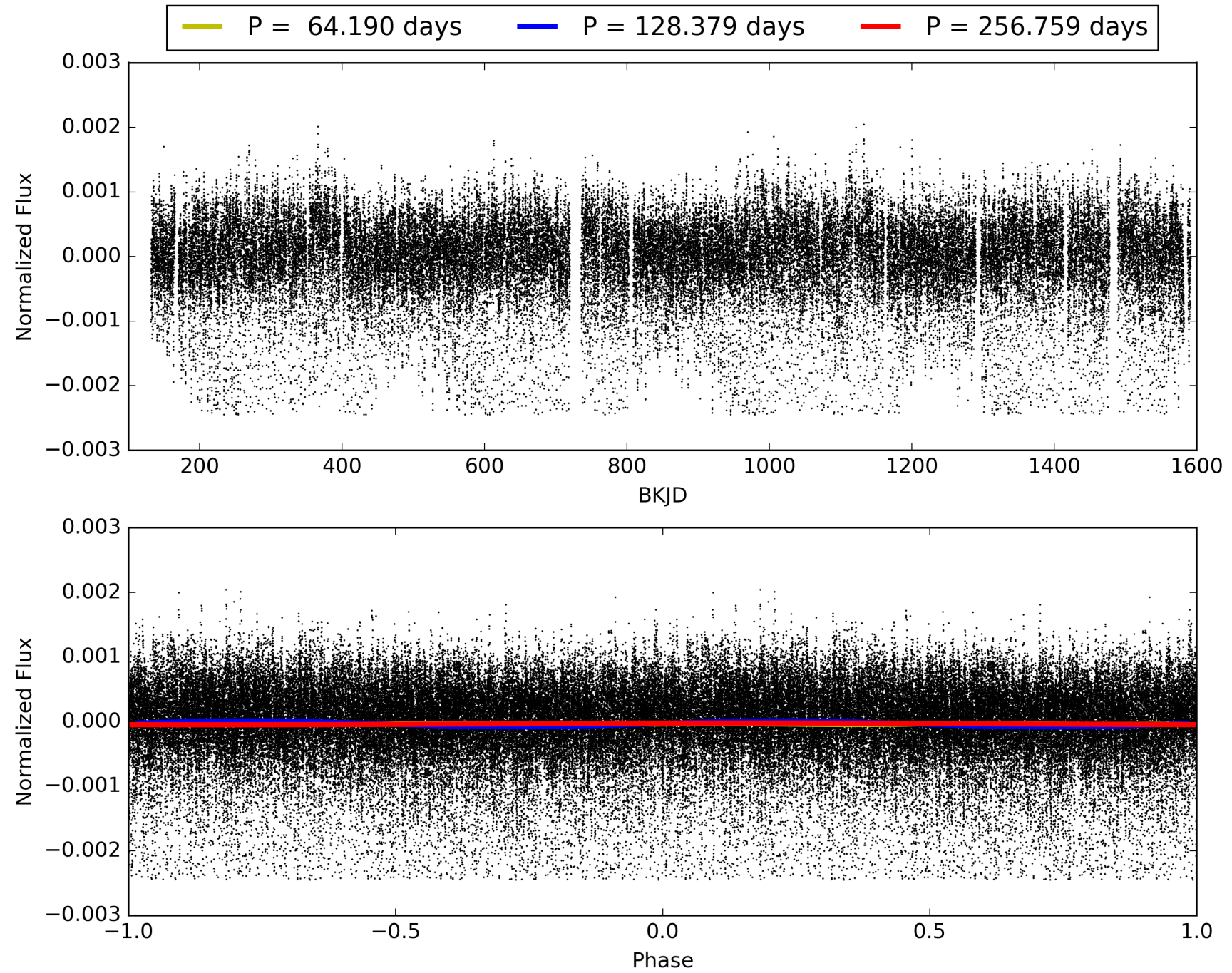
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [43.45σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 43.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -7.323
Centroid-sig: 0.1%
Centroid-so: 2.824 arcsec [2.36σ]
OotOffset-rm: 8.415 arcsec [119.46σ]
KicOffset-rm: 8.292 arcsec [113.60σ]
OotOffset-st: 2/1/2/1 [6]
KicOffset-st: 2/1/2/1 [6]
DiffImageQuality-fgm: 0.50 [3/6]
DiffImageOverlap-fno: 0.00 [0/10]

TCE 005467126-03, PDC Light Curves

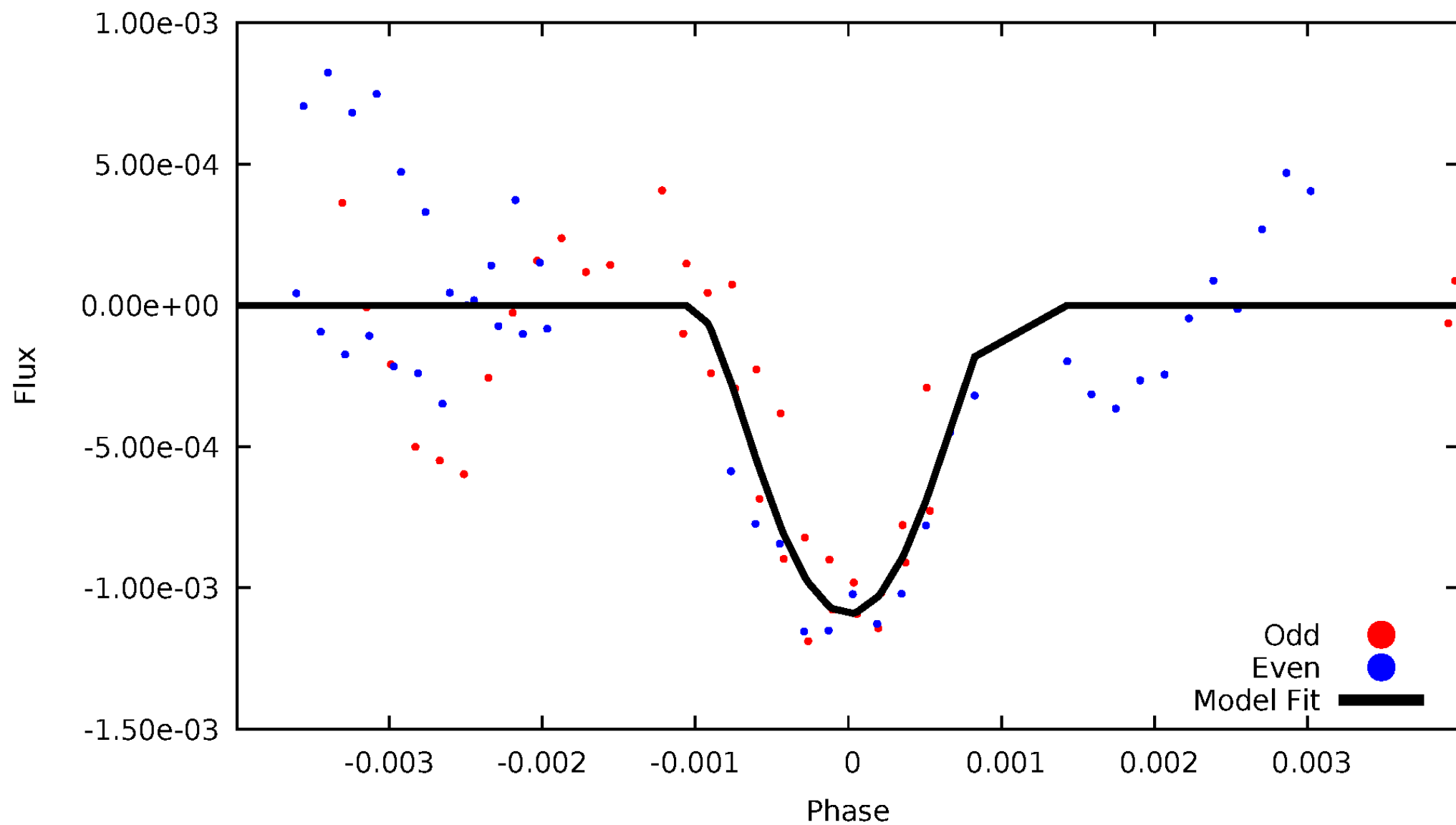


TCE 005467126-03



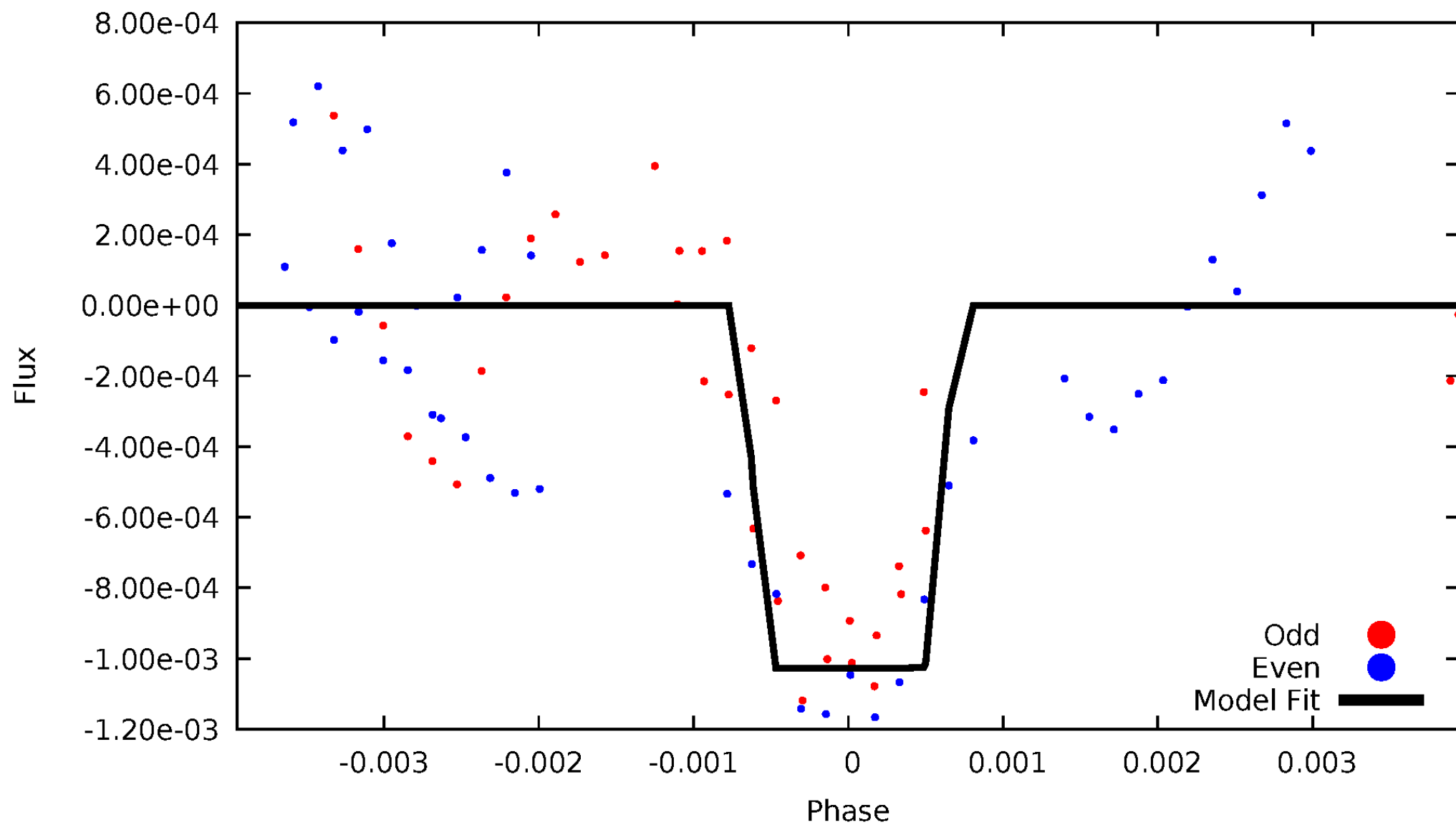
DV Odd/Even

TCE 005467126-03



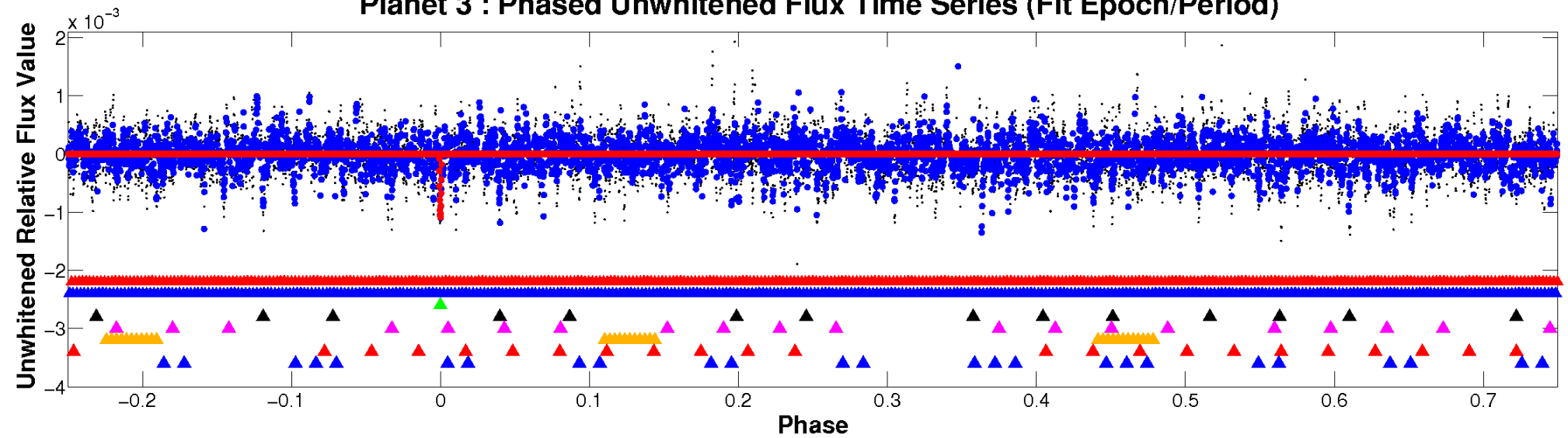
ALT Odd/Even

TCE 005467126-03

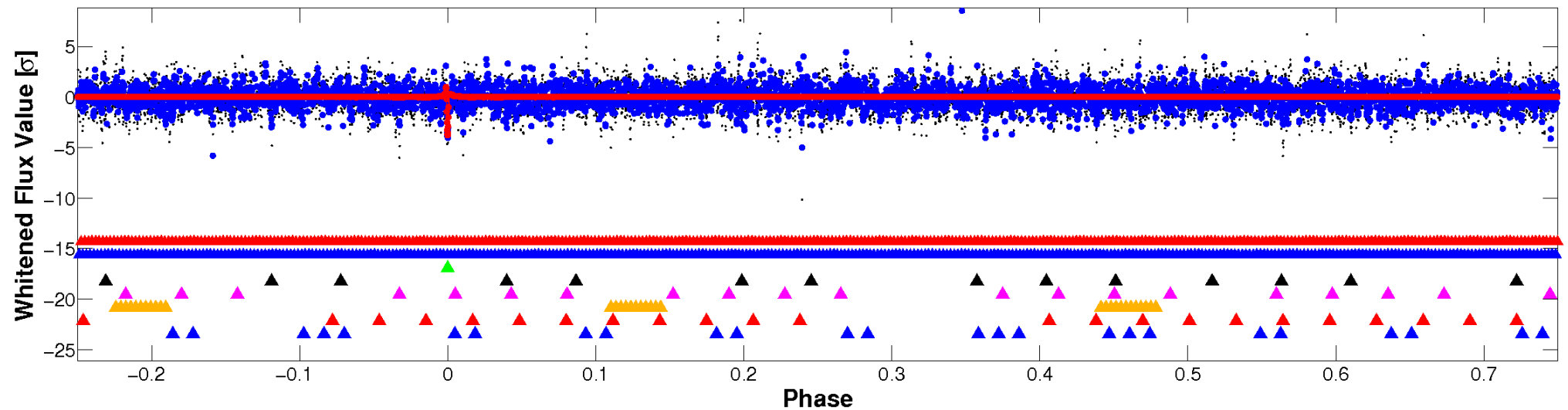


Non-Whitened Vs. Whitened Light Curve

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

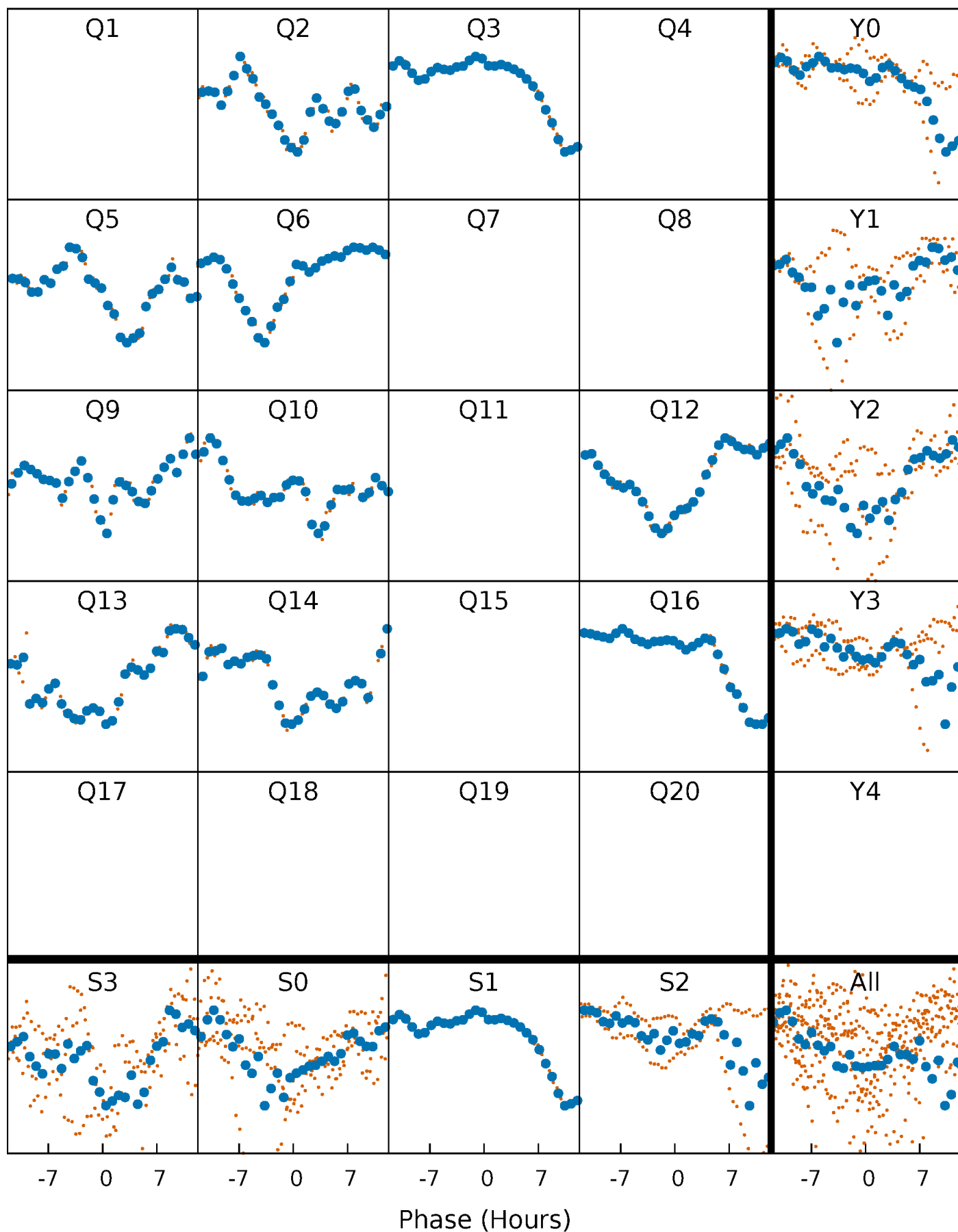


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



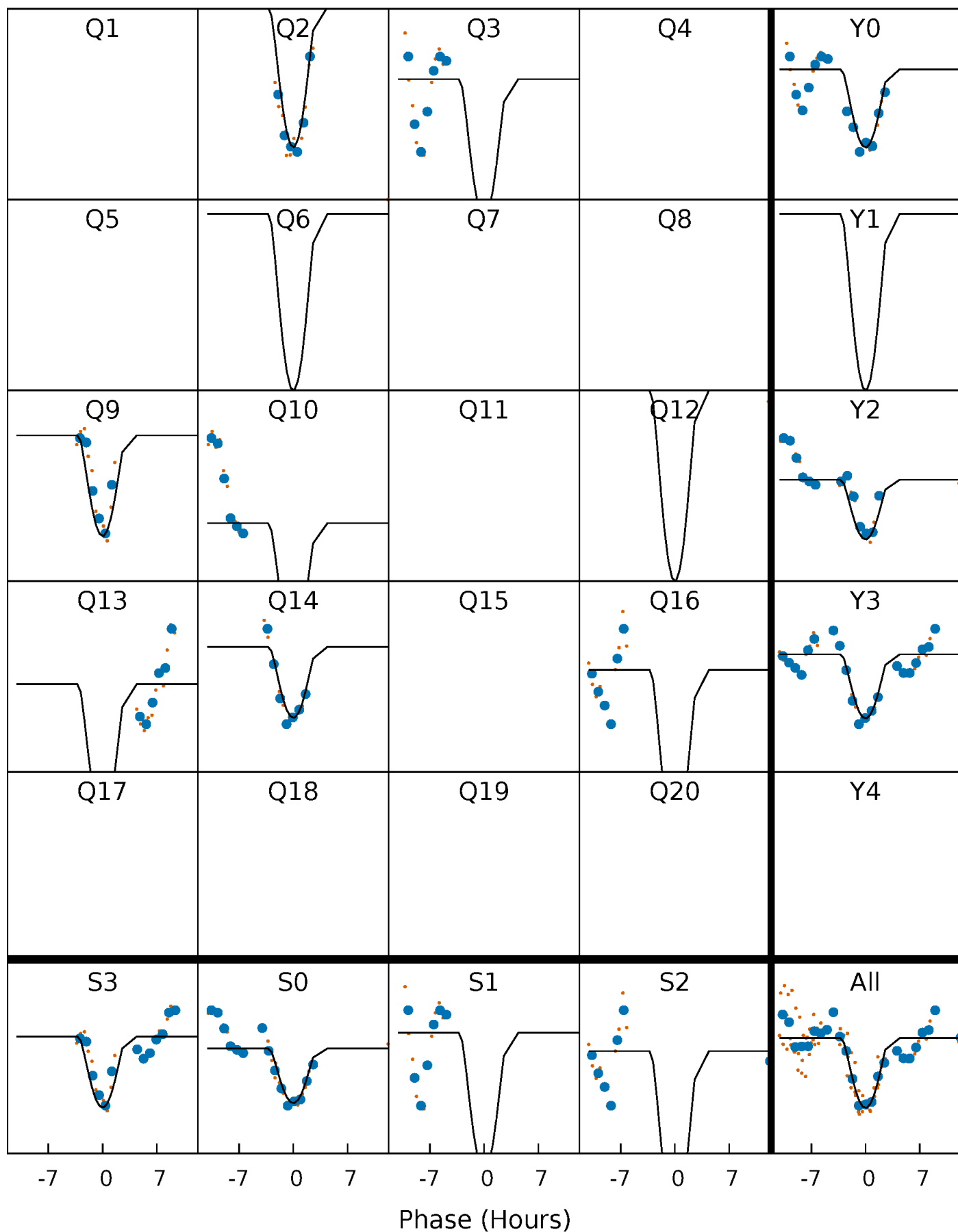
PDC Quarter-Phased Transit Curves

TCE 005467126-03 P=128.379343 Days $T_0=210.323277$ (BKJD)



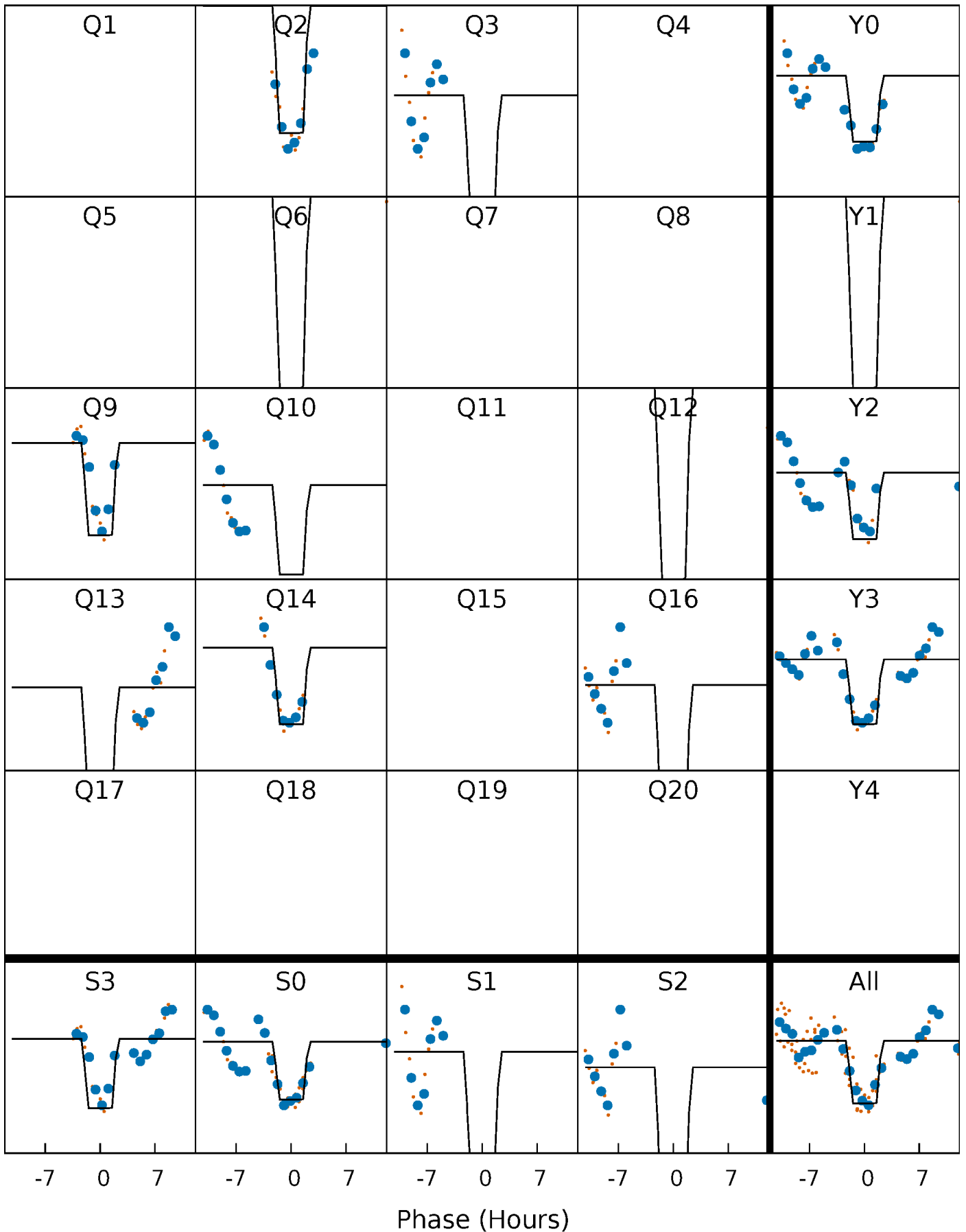
DV Quarter-Phased Transit Curves

TCE 005467126-03 P=128.379343 Days $T_0=210.323277$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

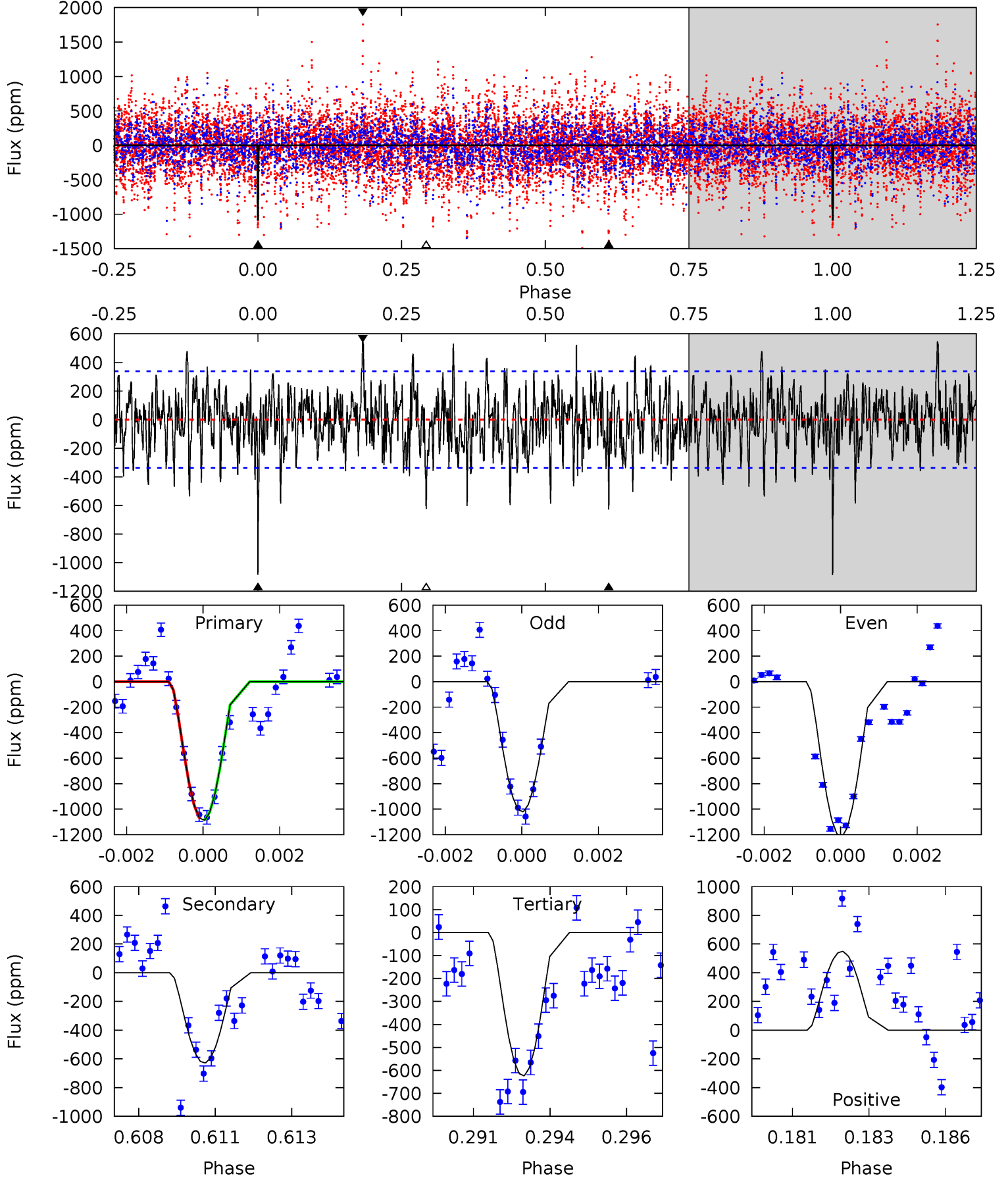
TCE 005467126-03 P=128.379591 Days $T_0=210.325354$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-03, P = 128.379343 Days, E = 81.943934 Days

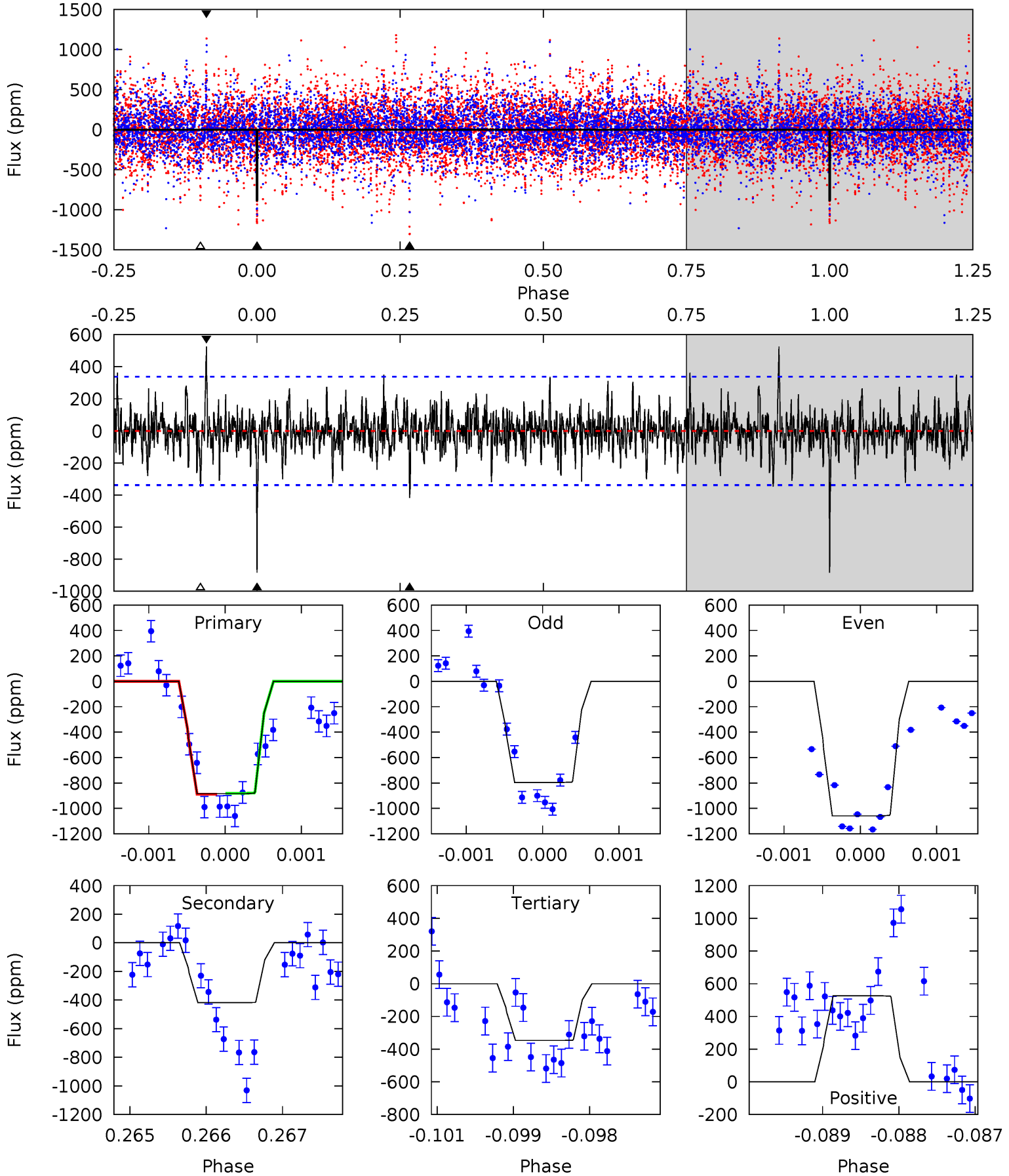
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.0	9.84	9.77	8.59	5.30	3.04	2.74	7.24	8.43	0.07	1.25	1.49	0.93	0.34	0.10



Alt Model-Shift Uniqueness Test

005467126-03, P = 128.379591 Days, E = 81.945763 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.1	6.69	5.55	8.42	5.41	3.22	1.57	8.59	5.73	1.14	-1.73	2.06	0.96	0.37	0.05



Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-628 ± 64	$87.98^{+76.45}_{-59.75}$	1186^{+68}_{-85}	3212^{+1544}_{-520}	18^{+155}_{-13}
Alt.	-418 ± 62	$76.31^{+75.41}_{-52.36}$	1188^{+69}_{-88}	3152^{+1554}_{-533}	16^{+138}_{-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 $A_{obs} \gg 1.0$

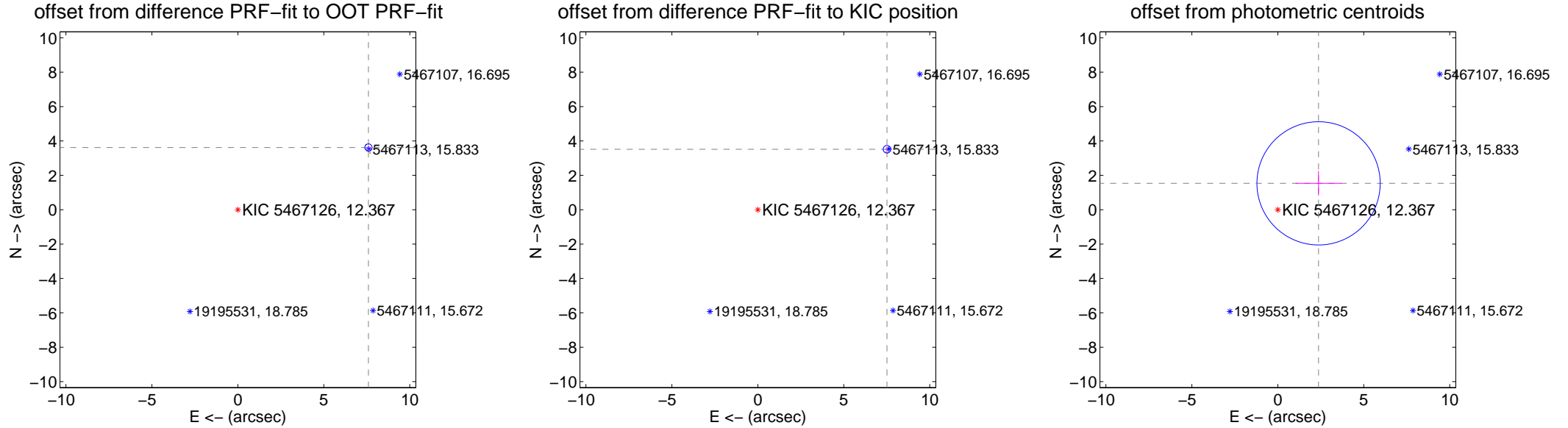
DV Centroid Data

Supplemental centroid analysis for 005467126-03. Kepler magnitude: 12.37. Transit SNR 14.61

There are 3 quarters with good PRF difference image offsets

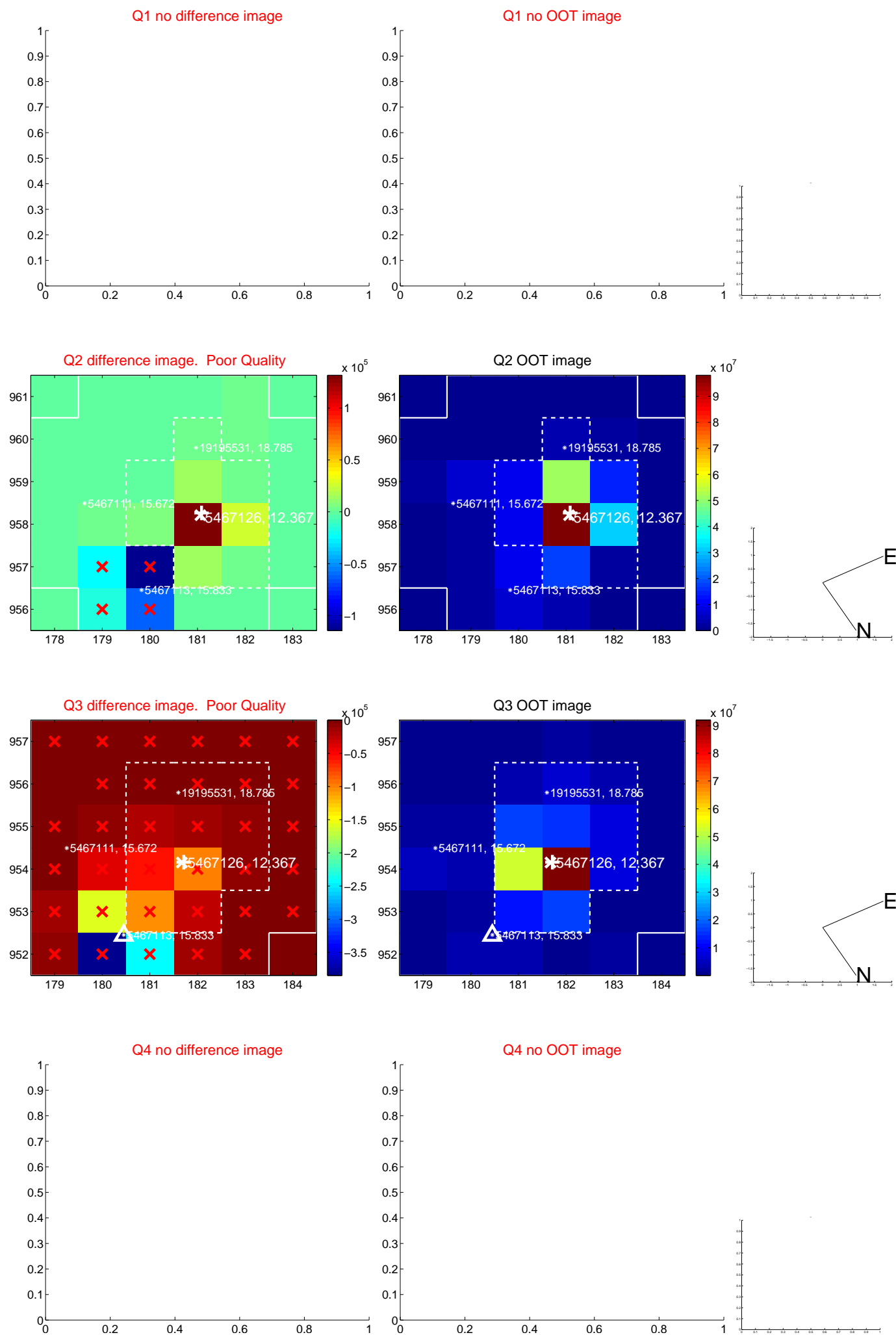
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.415 \pm 0.070	119.46	-7.596 \pm 0.070	3.619 \pm 0.074
PRF-fit source offset from KIC position	8.292 \pm 0.073	113.60	-7.510 \pm 0.071	3.517 \pm 0.080
photometric centroid source offset	2.82 \pm 1.19	2.36	-2.37 \pm 1.35	1.53 \pm 0.71

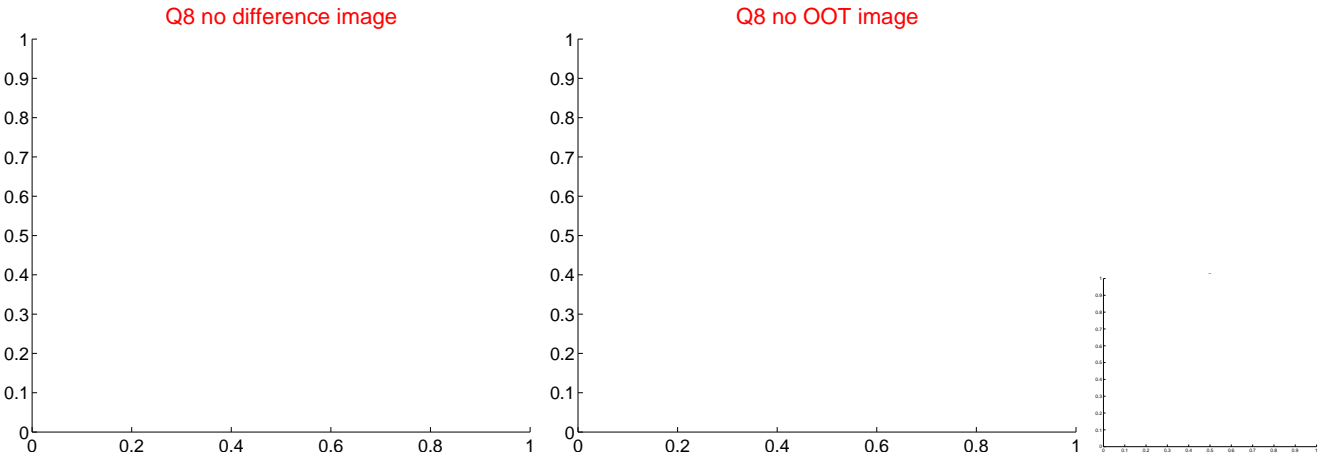
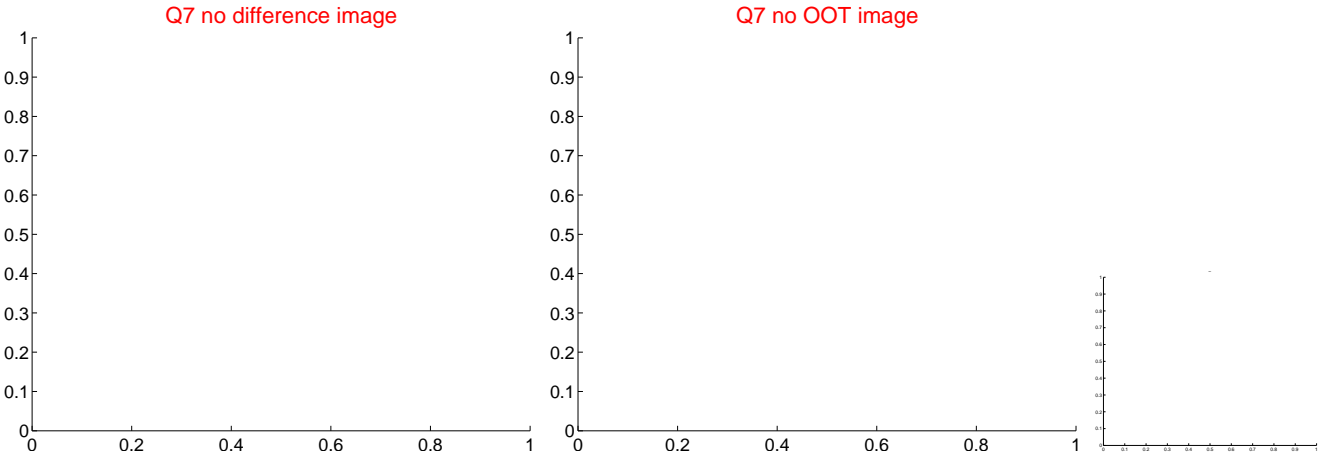
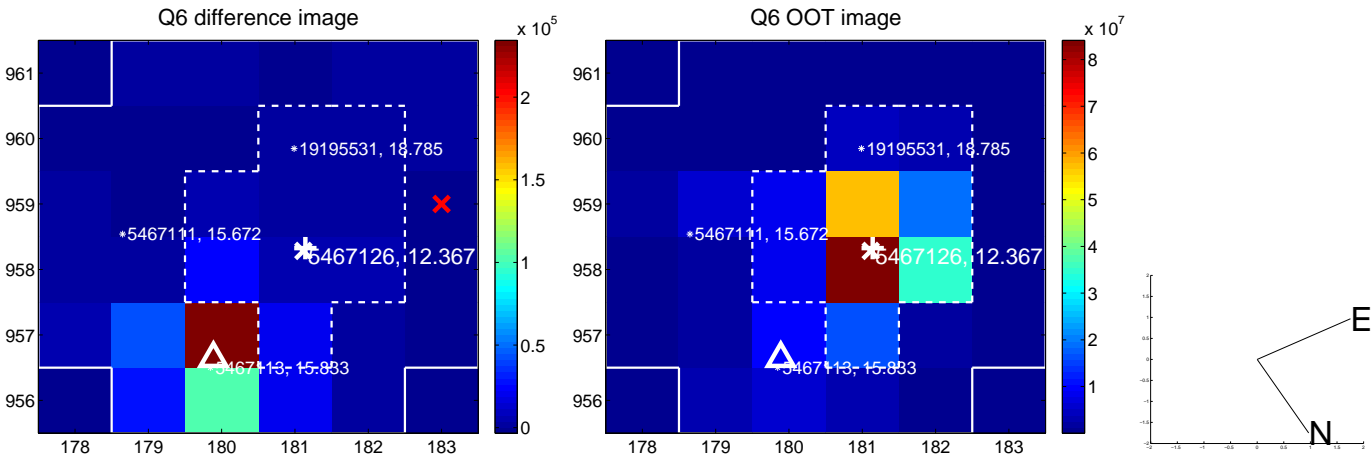
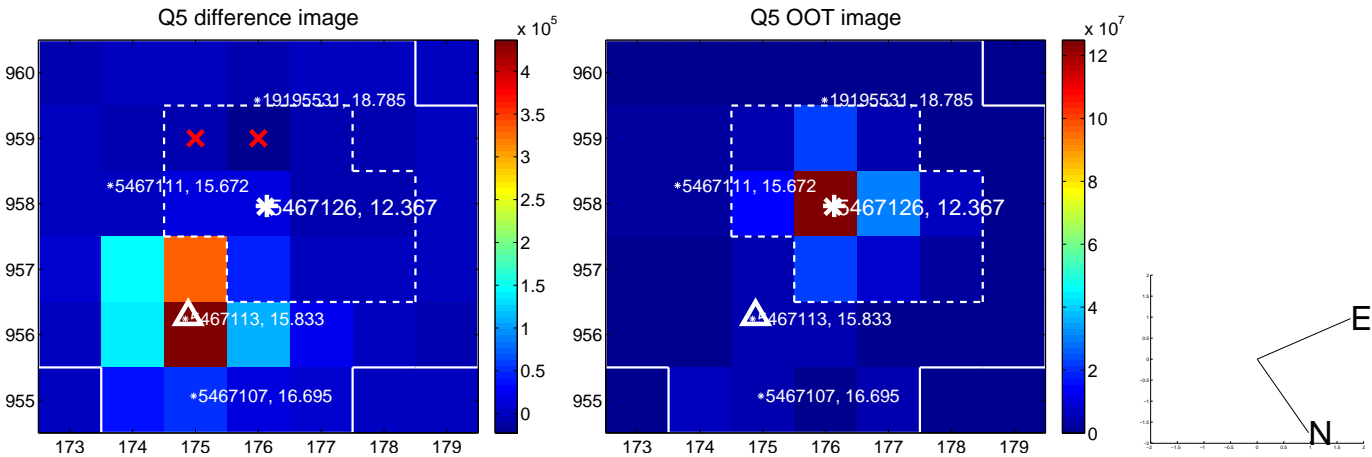


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

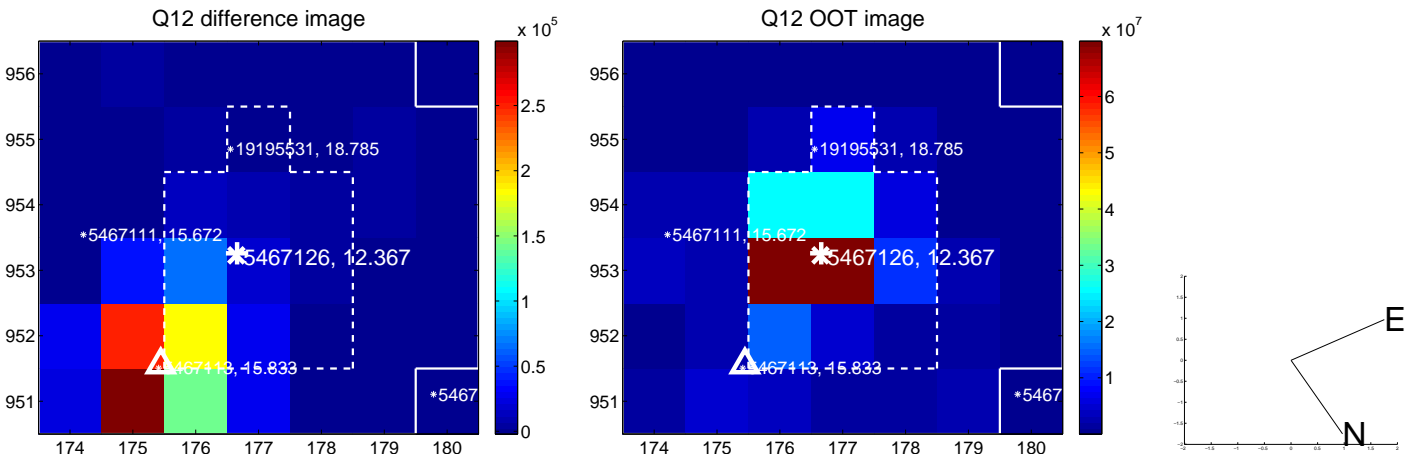
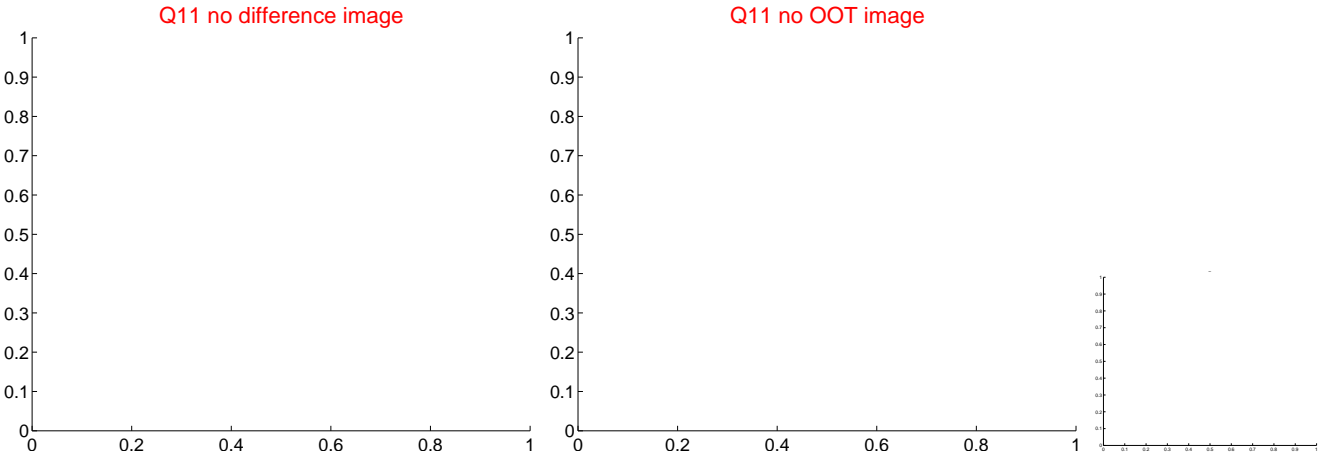
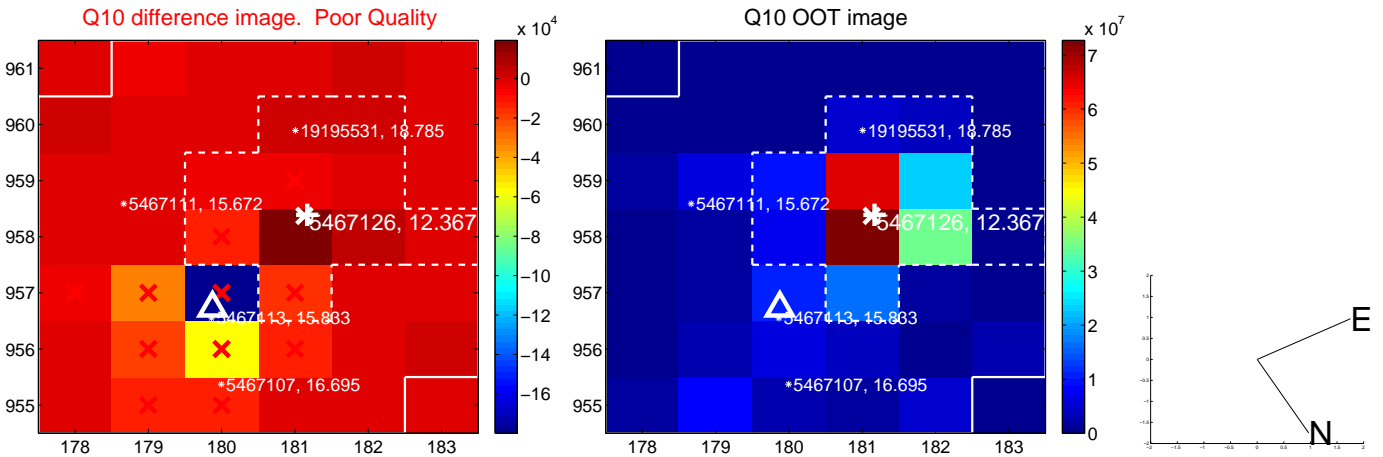
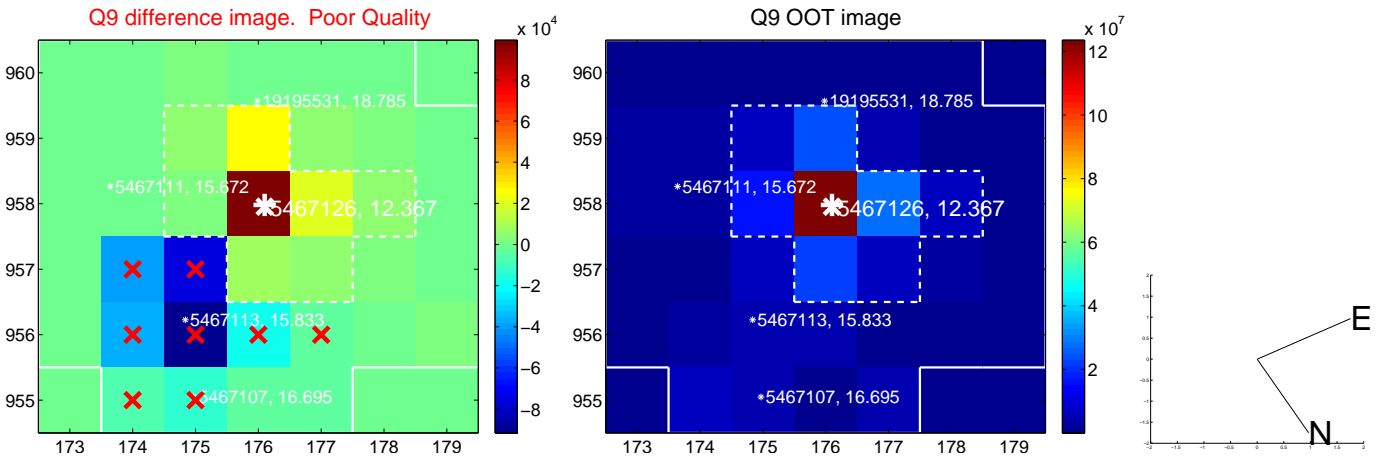
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



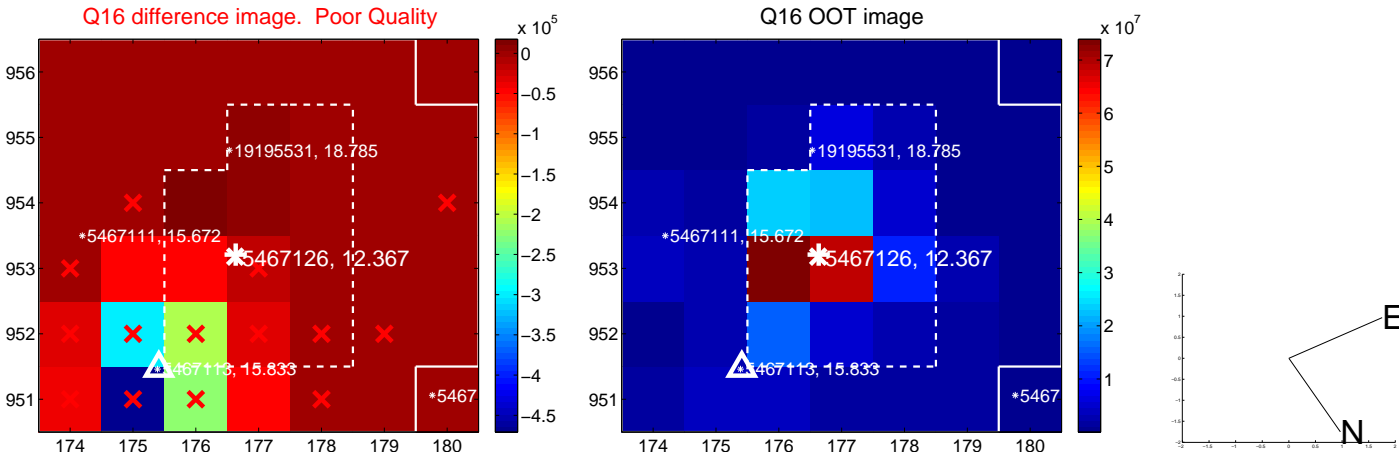
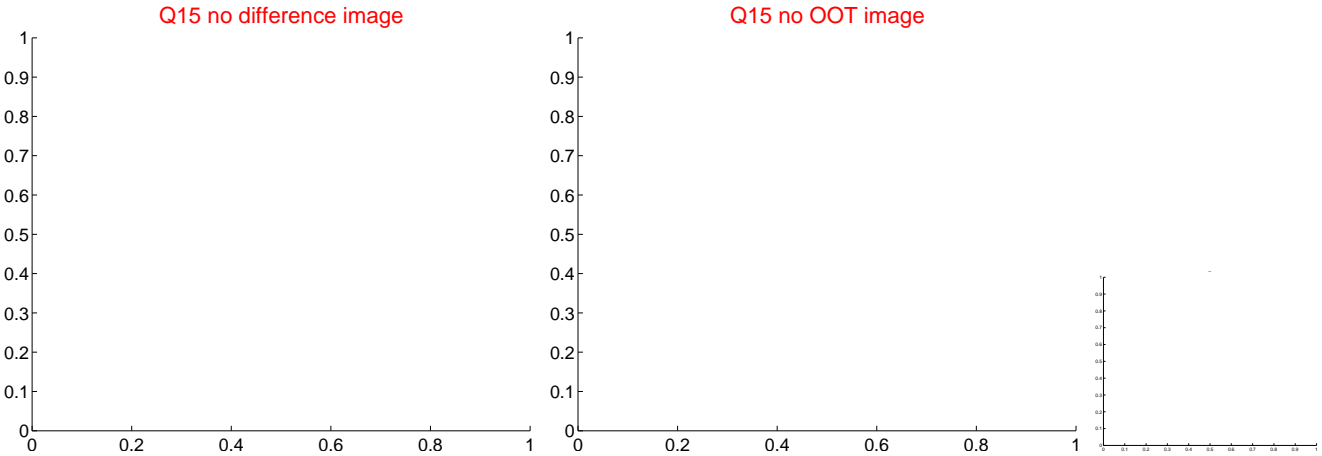
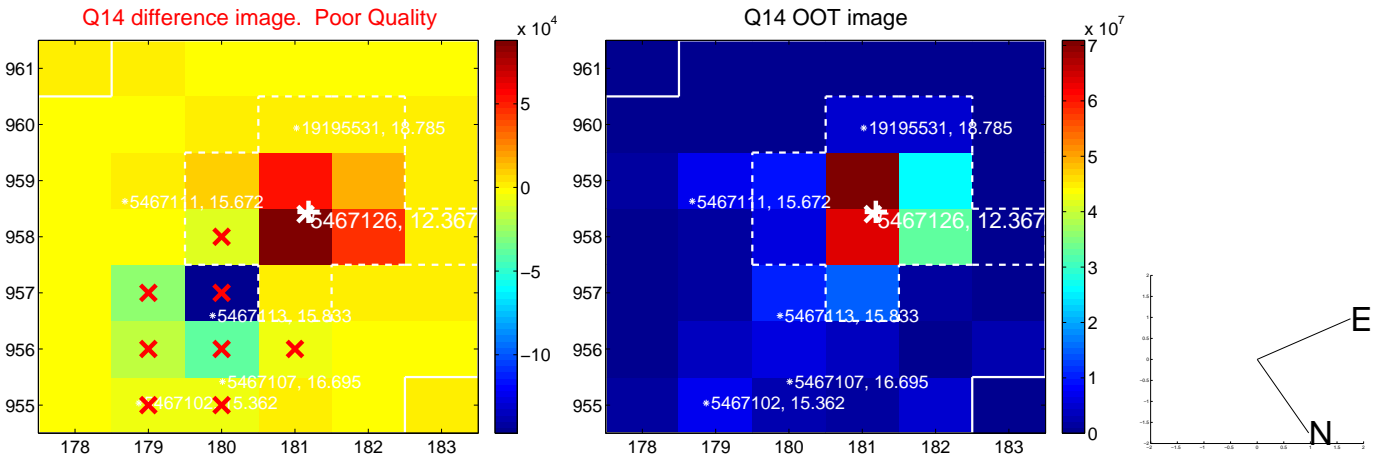
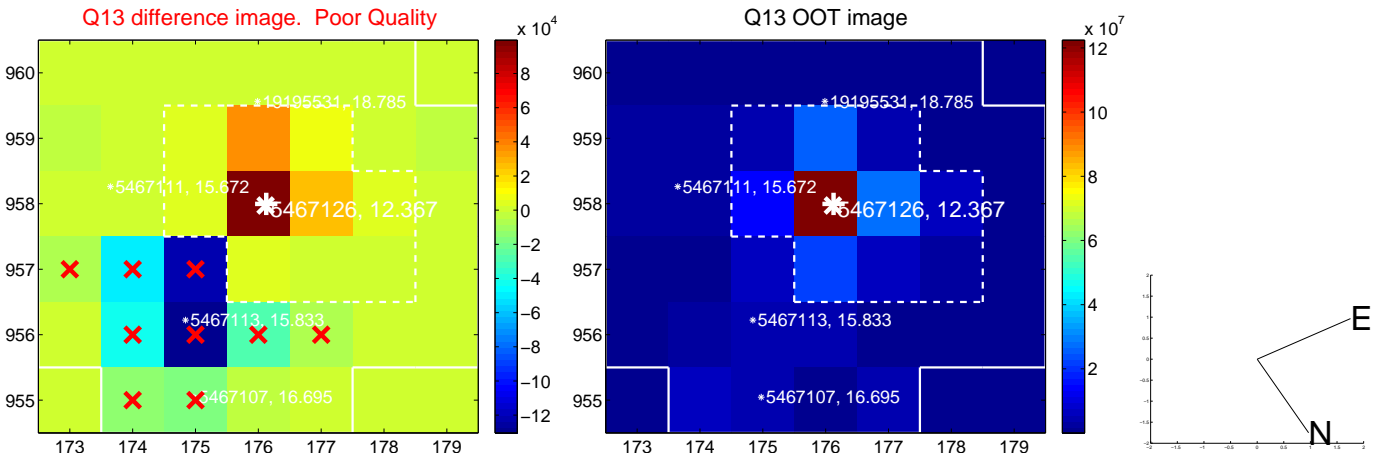
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



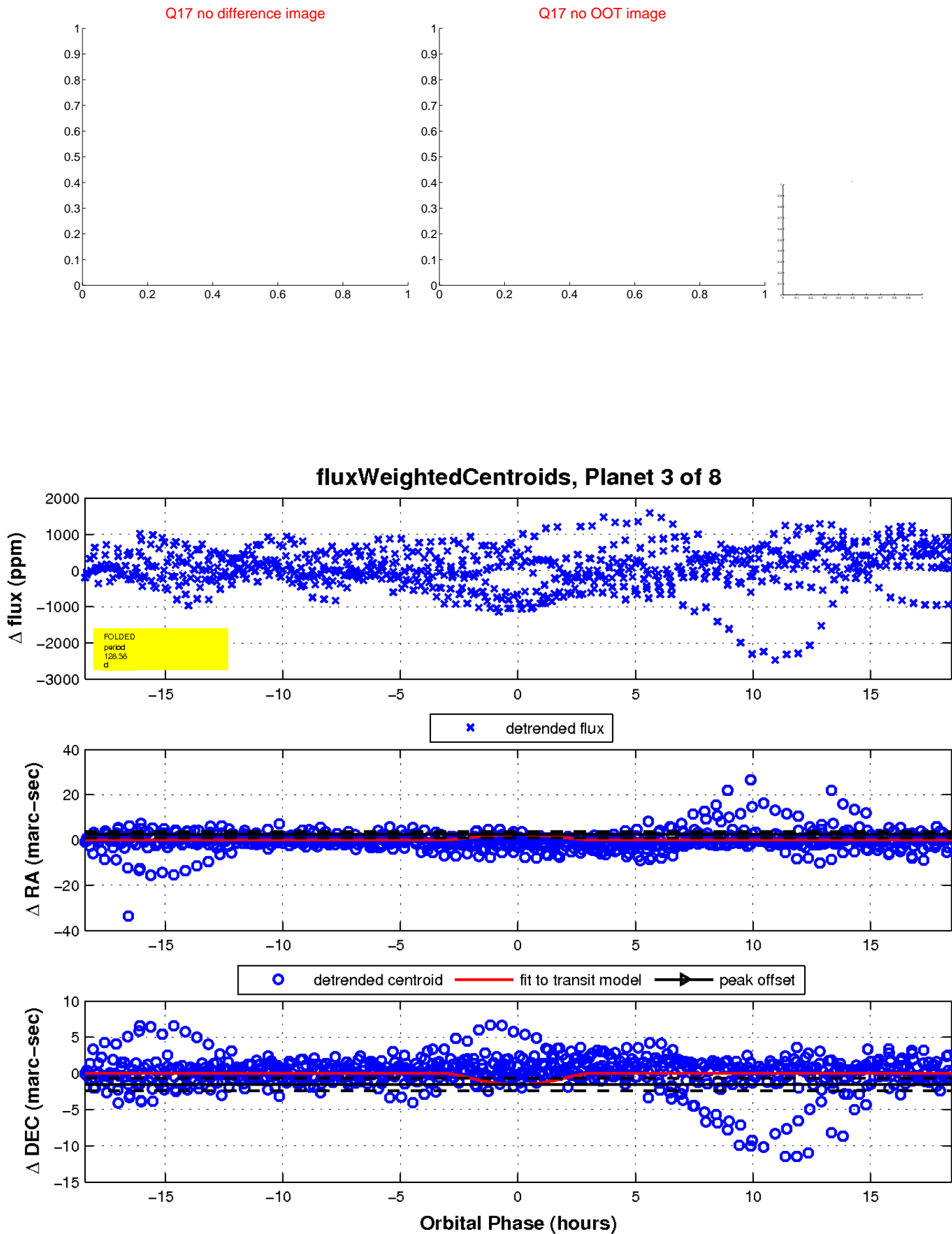
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

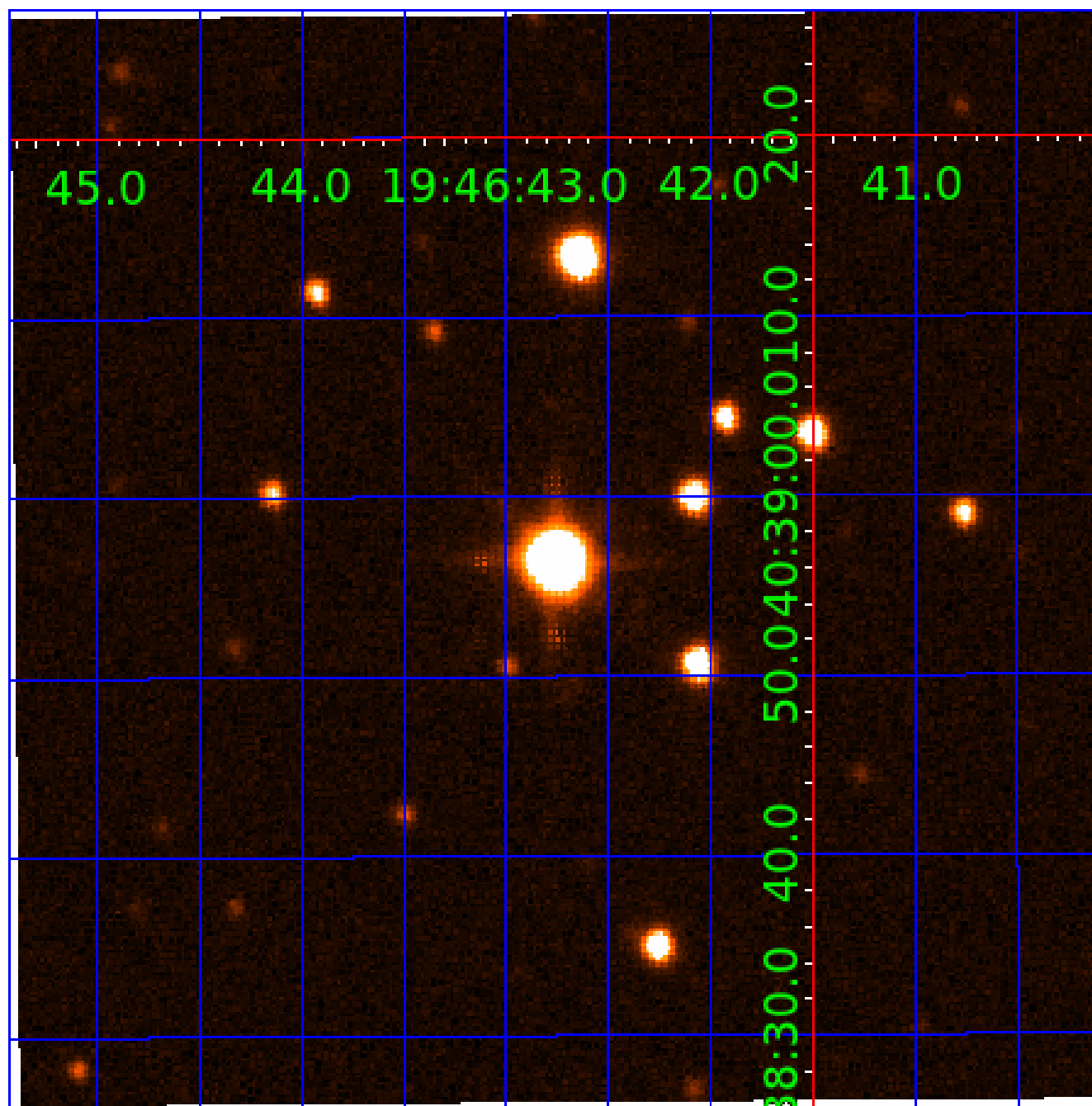


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

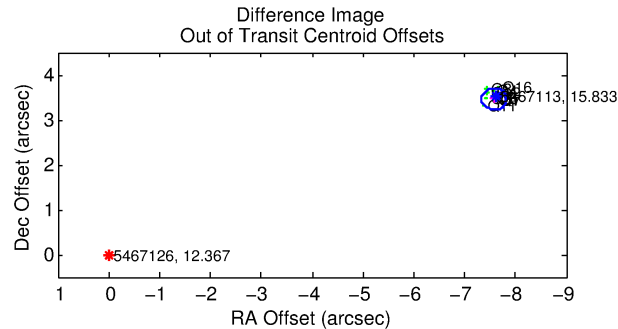
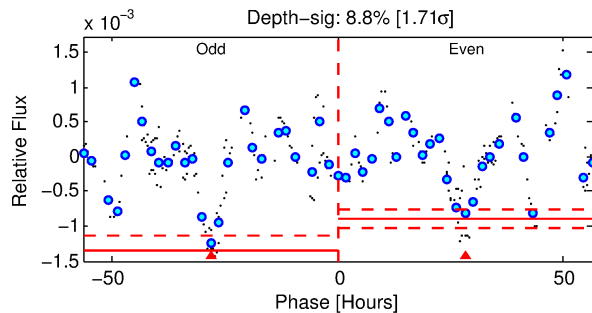
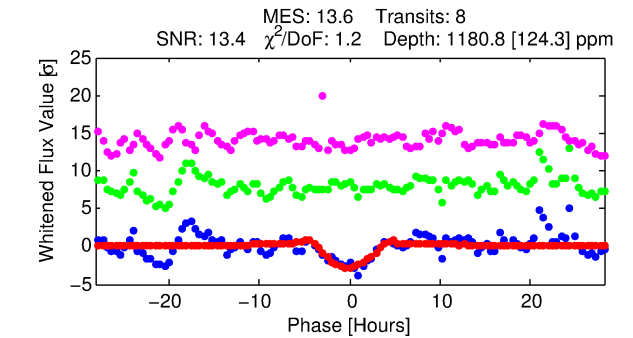
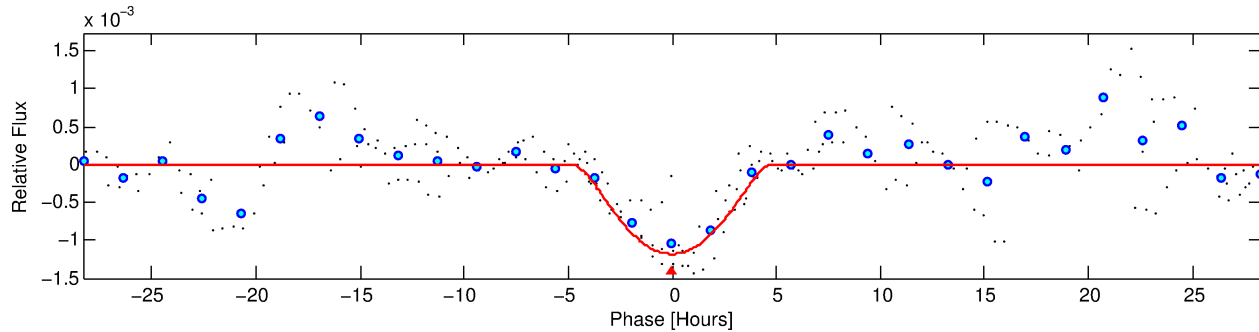
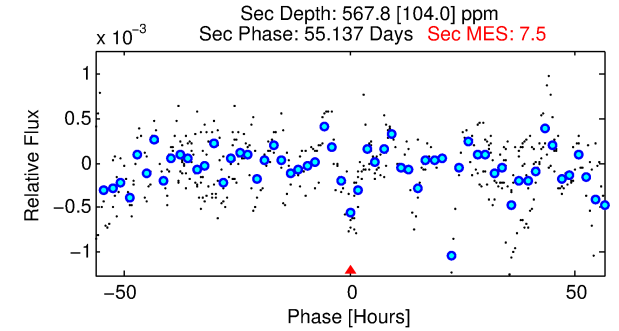
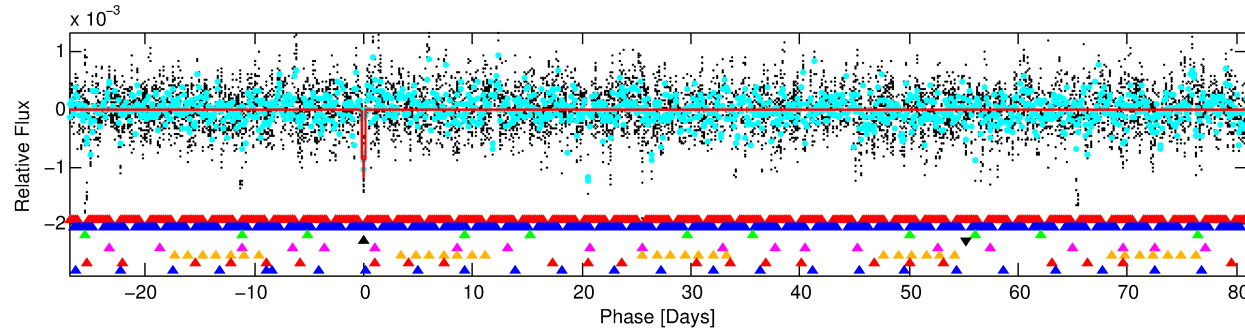
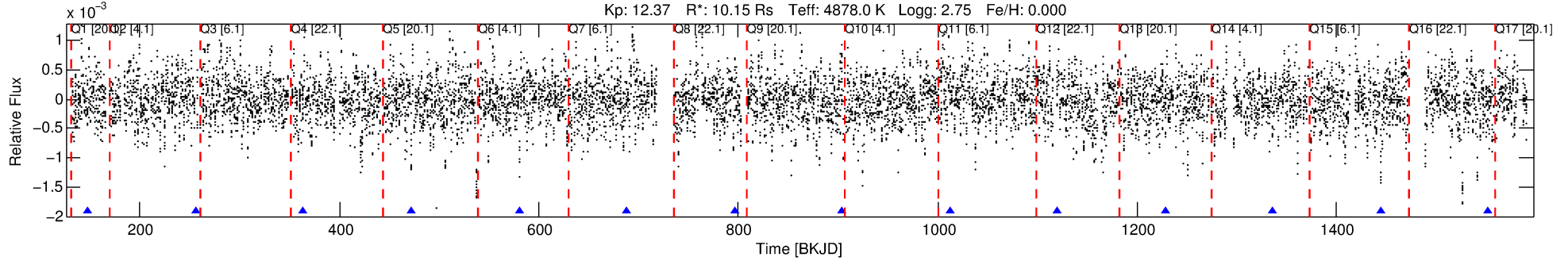
Ephemeris Match Information For 005467126-04

No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 4 of 8 Period: 107.985 d
KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



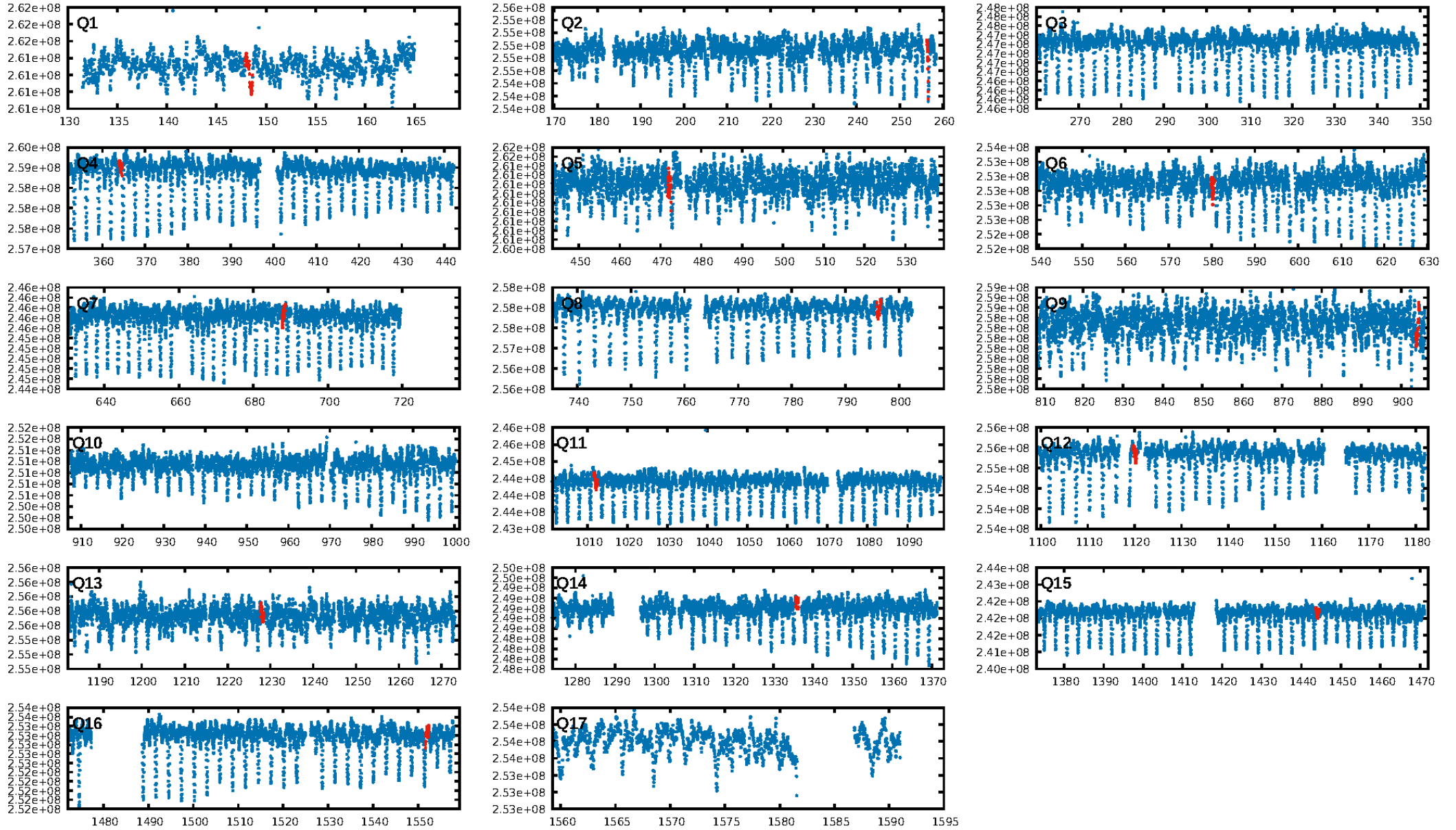
DV Fit Results:

Period = 107.98477 [0.00186] d
Epoch = 148.2447 [0.0159] BKJD
Rp/R* = 0.0512 [0.0403]
a/R* = 33.42 [9.06]
b = 0.98 [0.07]
Seff = 162.36 [64.21]
Teq = 910 [90] K
Rp = 56.69 [49.32] Re
a = 0.5676 [0.1638] AU
Ag = 31.31 [51.10] [0.59σ]
Teff = 3329 [1321] K [1.83σ]

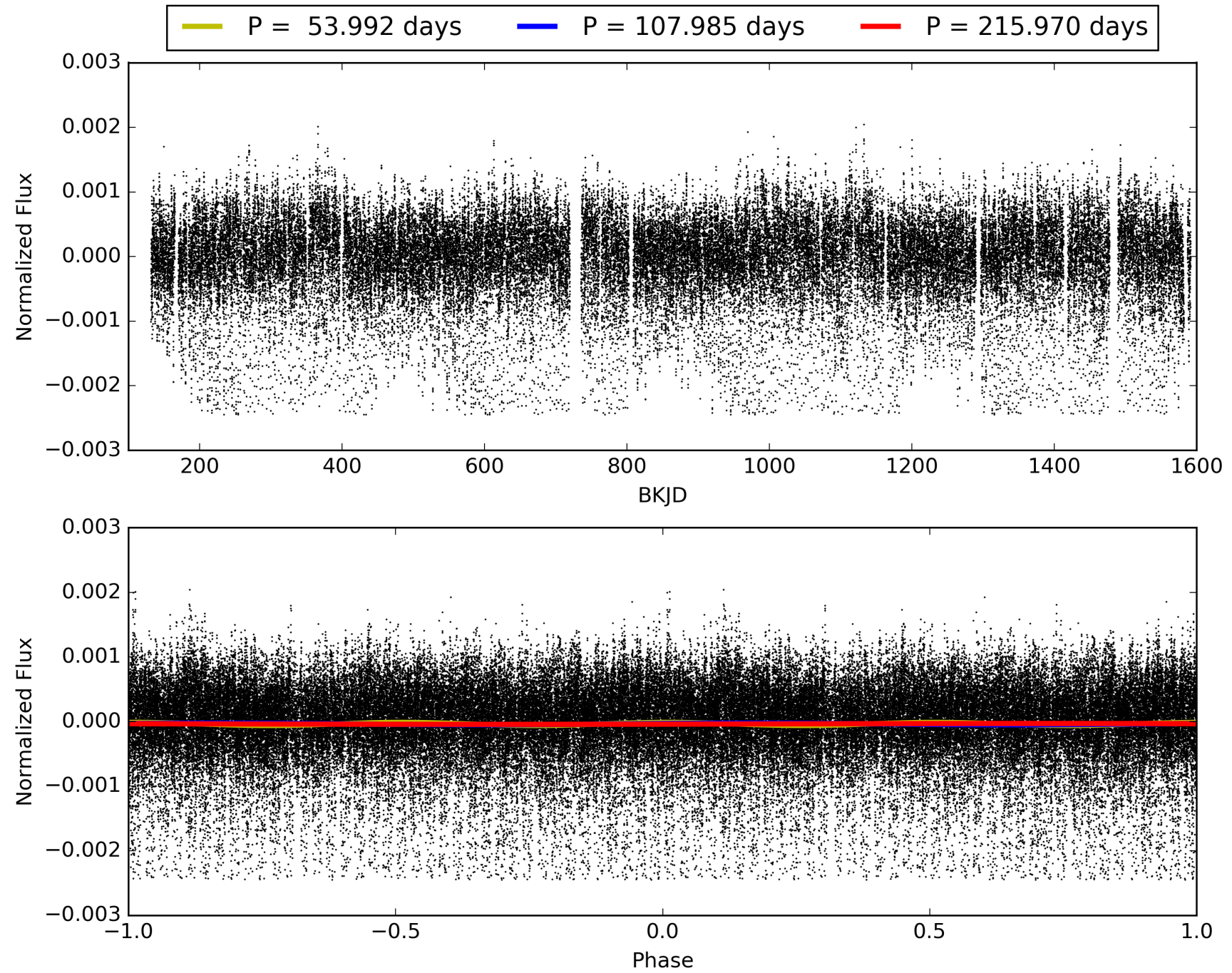
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [75.89σ]
LongPeriod-sig: 100.0% [43.45σ]
ModelChiSquare2-sig: 33.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: 0.5446
Centroid-sig: 7.5%
Centroid-so: 2.301 arcsec [1.88σ]
OotOffset-rm: 8.331 arcsec [103.54σ]
KicOffset-rm: 8.207 arcsec [108.96σ]
OotOffset-st: 0/2/4/3 [9]
KicOffset-st: 0/2/4/3 [9]
DiffImageQuality-fgm: 0.44 [4/9]
DiffImageOverlap-fno: 0.00 [0/11]

TCE 005467126-04, PDC Light Curves

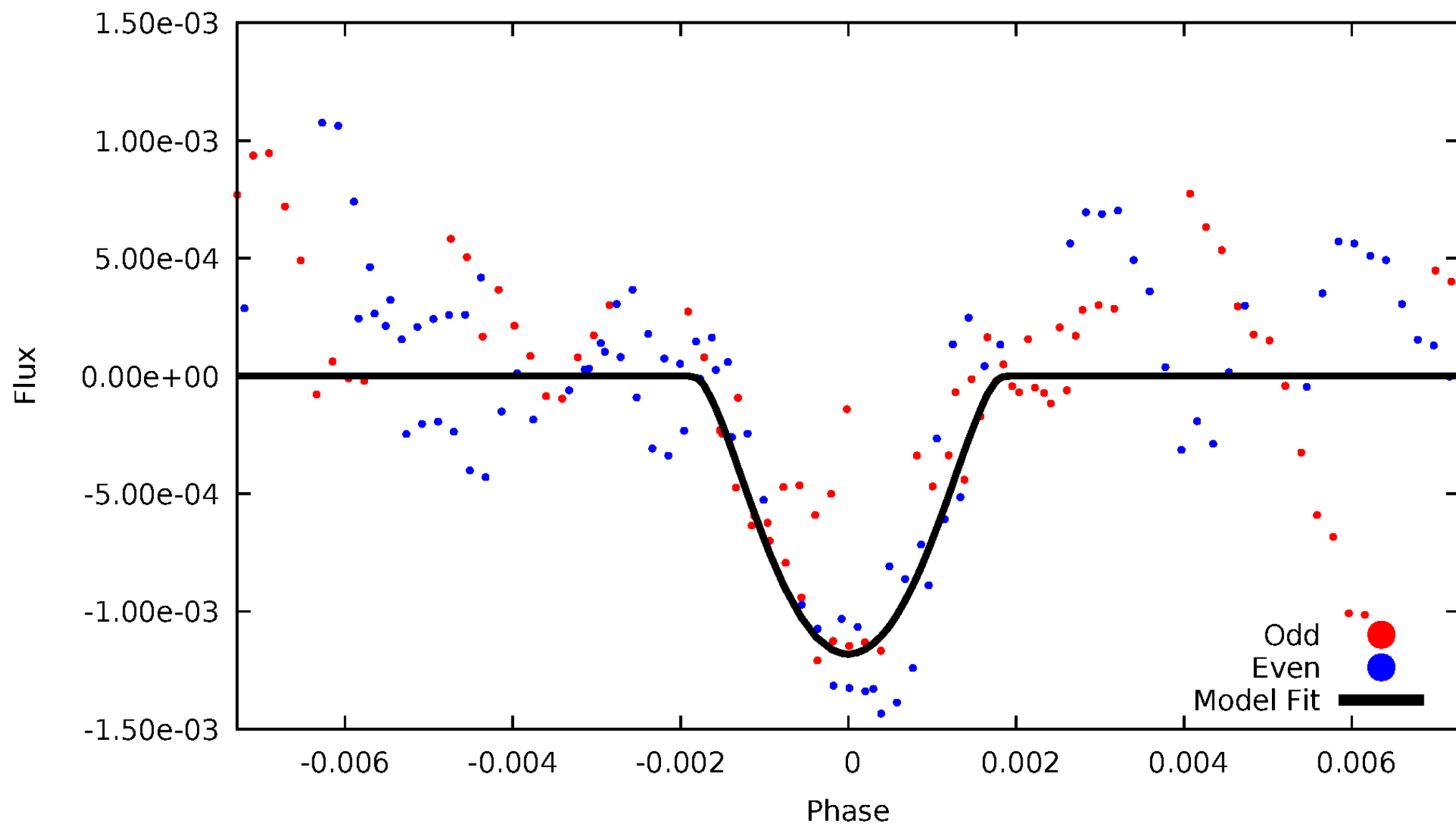


TCE 005467126-04



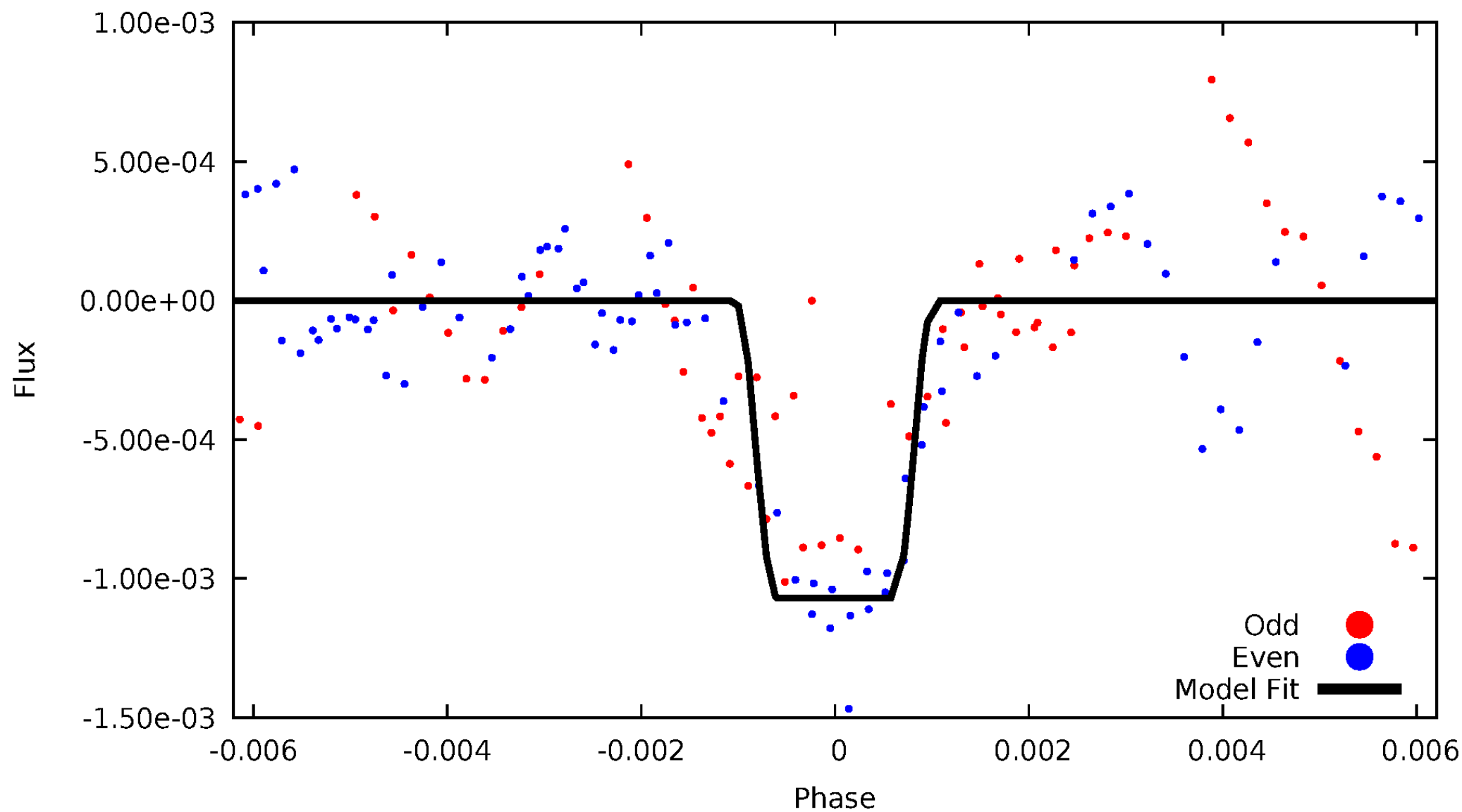
DV Odd/Even

TCE 005467126-04



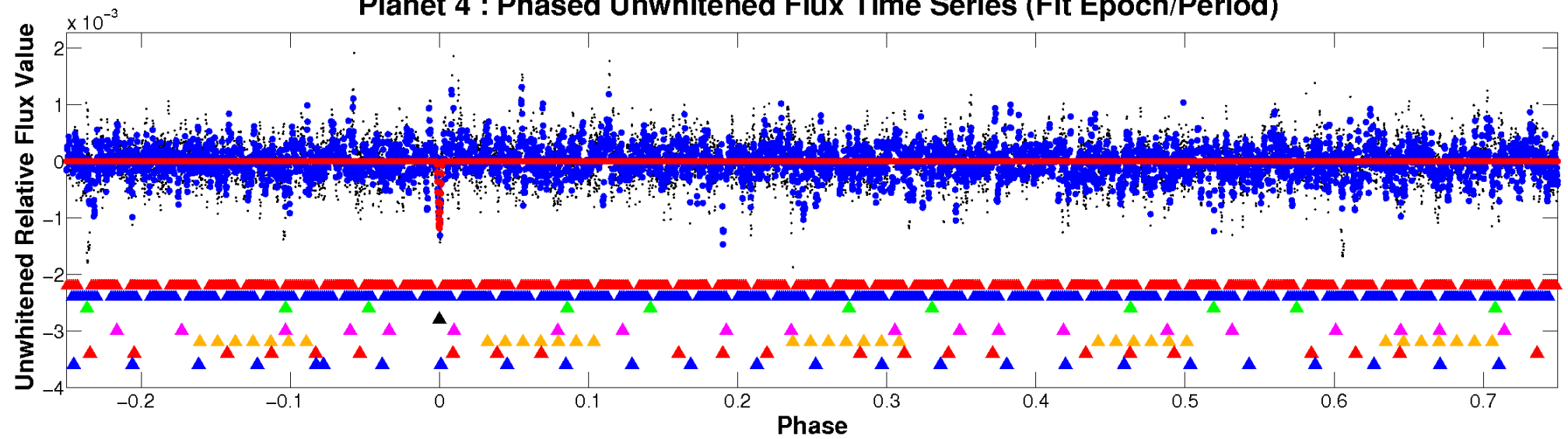
ALT Odd/Even

TCE 005467126-04

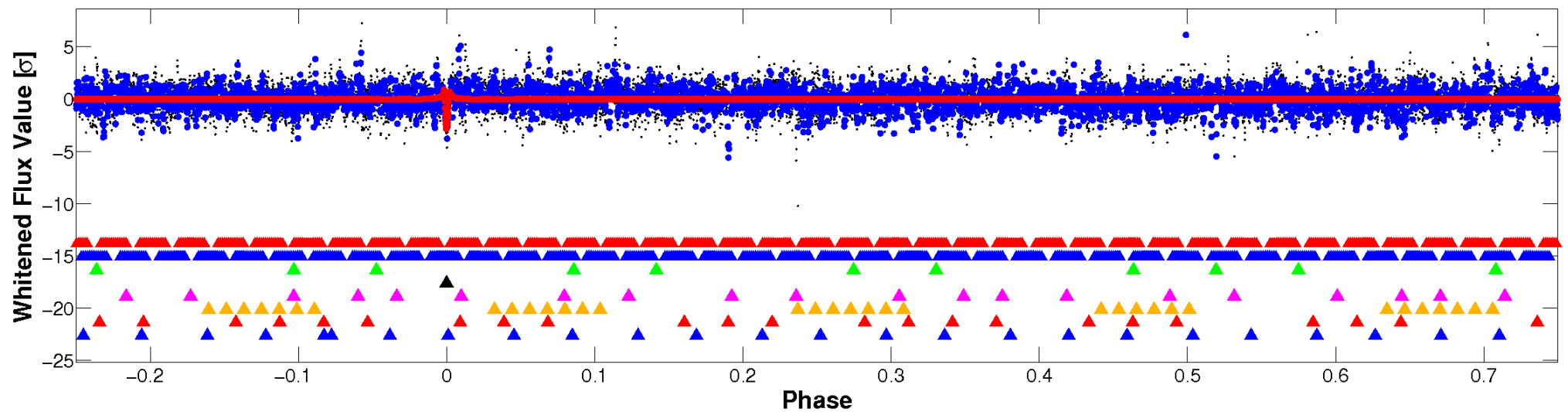


Non-Whitened Vs. Whitened Light Curve

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

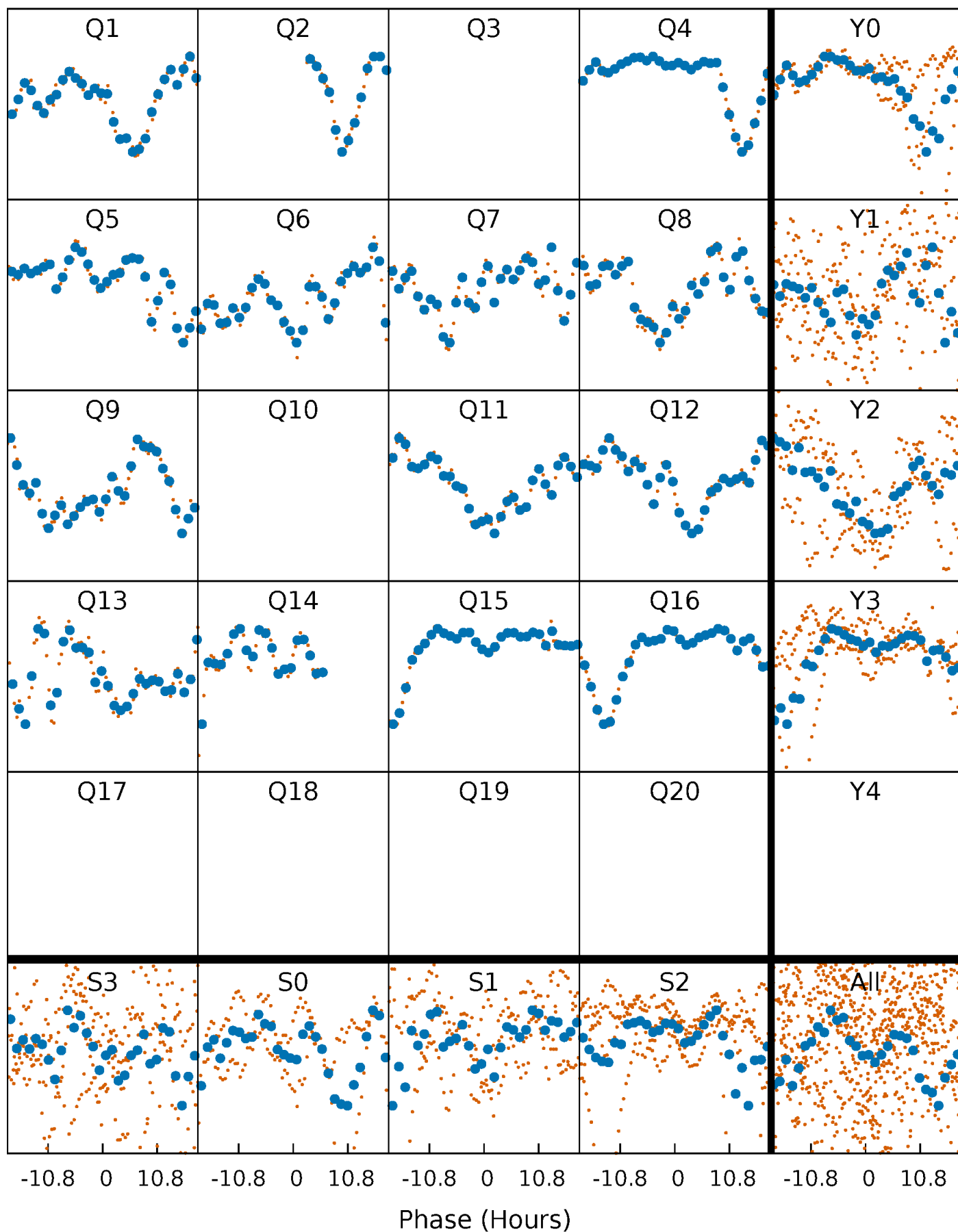


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



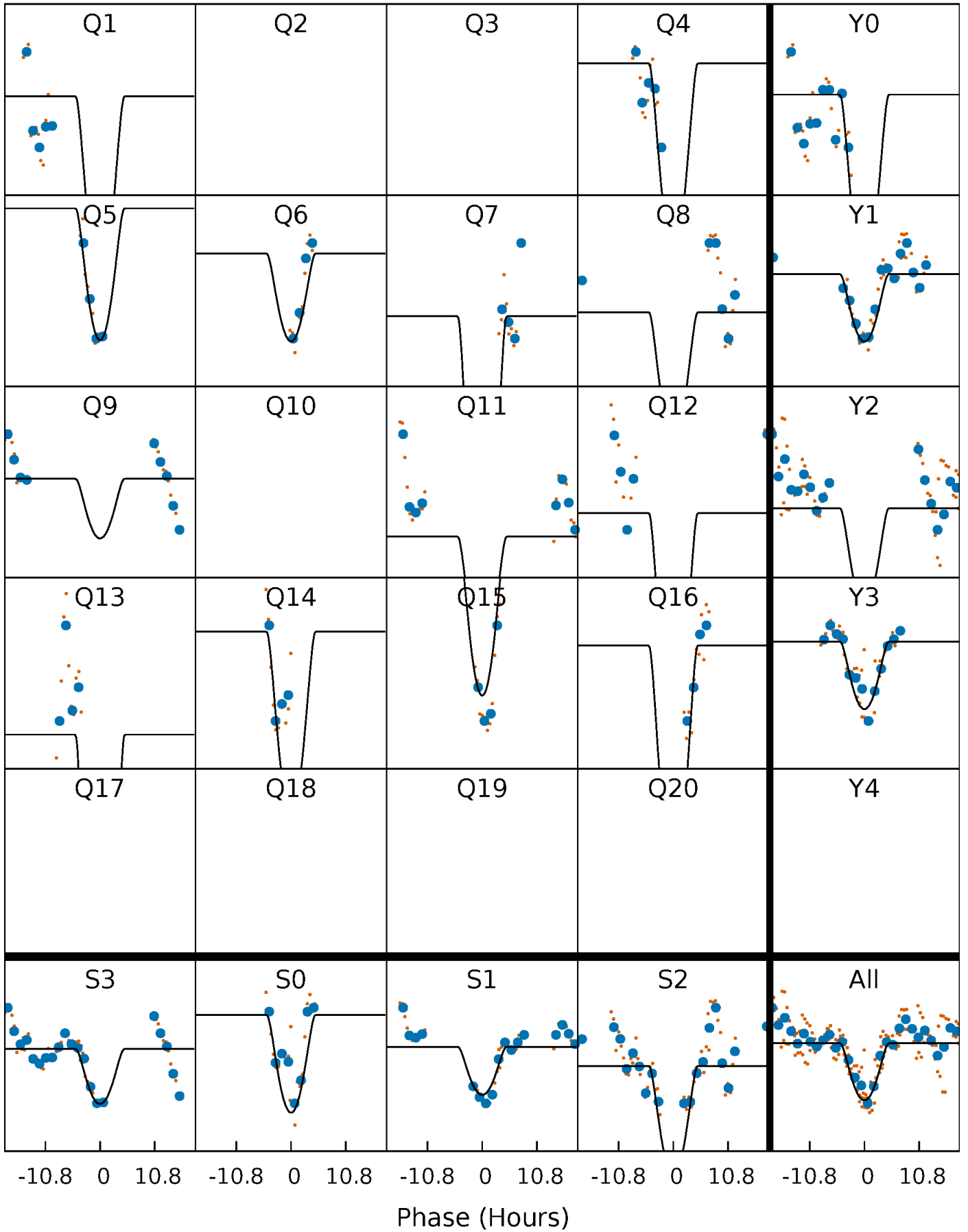
PDC Quarter-Phased Transit Curves

TCE 005467126-04 P=107.984767 Days $T_0=148.244746$ (BKJD)



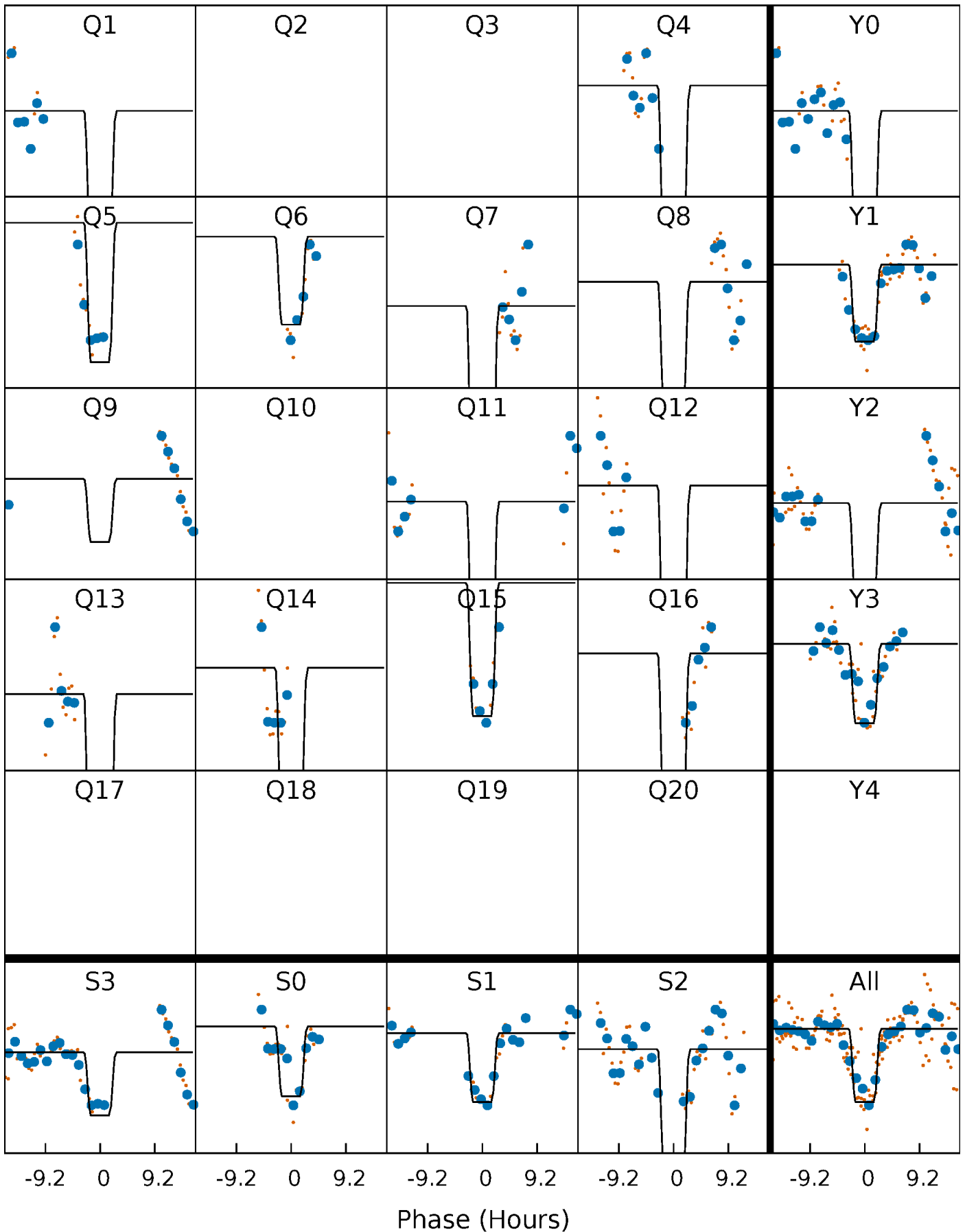
DV Quarter-Phased Transit Curves

TCE 005467126-04 P=107.984767 Days $T_0=148.244746$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

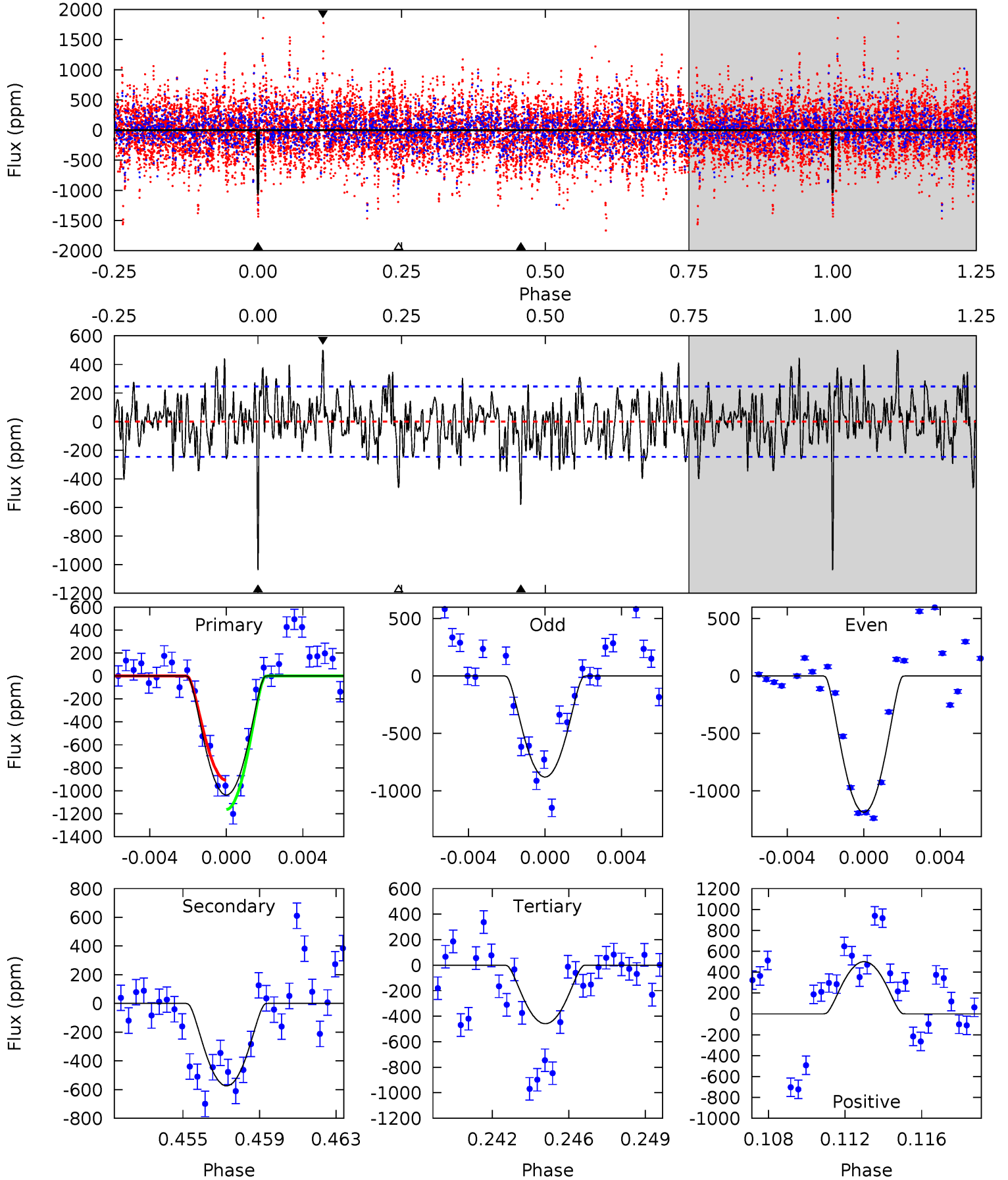
TCE 005467126-04 P=107.985754 Days $T_0=148.257835$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-04, $P = 107.984767$ Days, $E = 40.259979$ Days

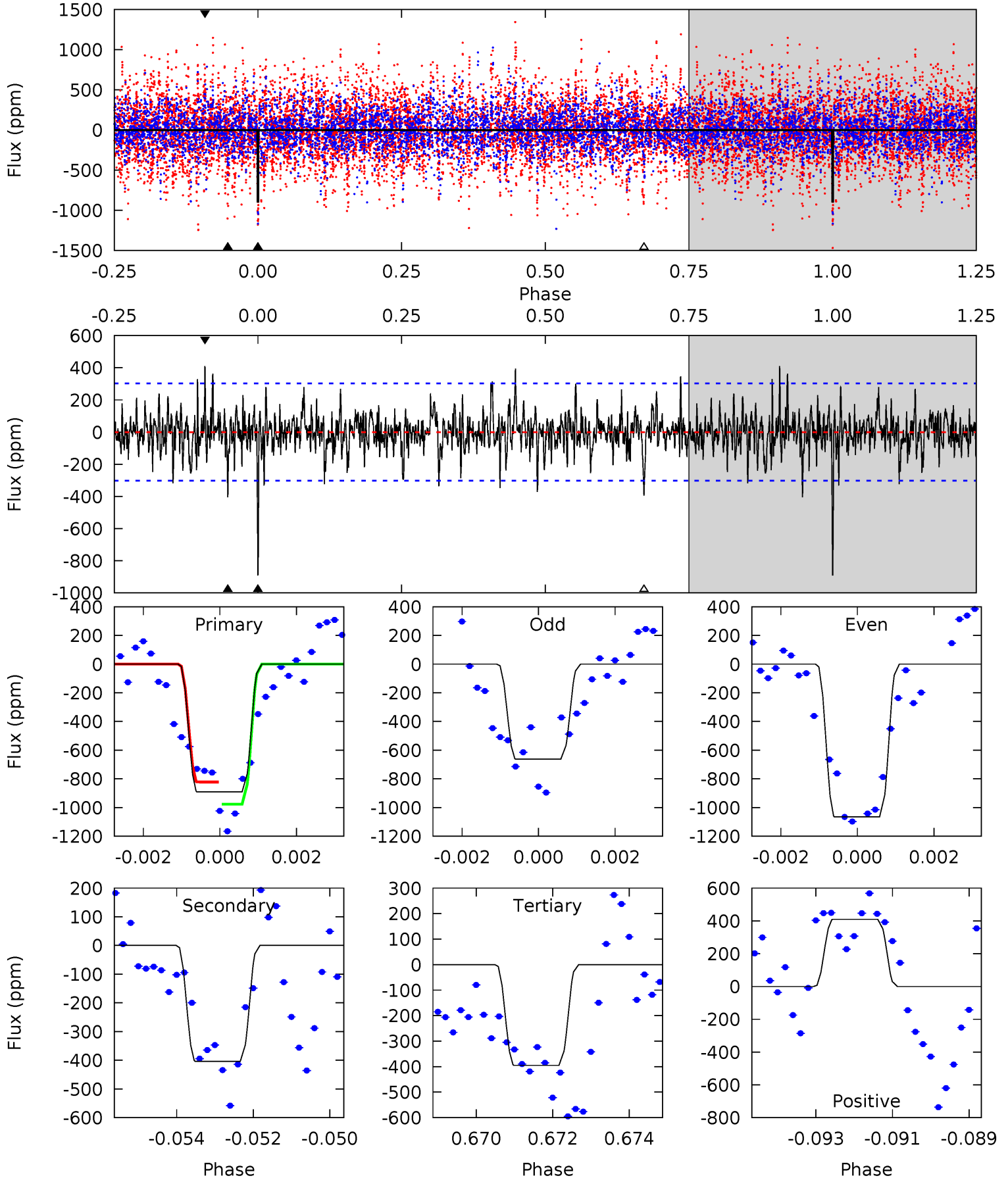
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
22.0	12.2	9.73	10.6	5.22	2.91	3.01	12.3	11.4	2.45	1.56	3.25	0.87	0.33	2.71



Alt Model-Shift Uniqueness Test

005467126-04, P = 107.985754 Days, E = 40.272081 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.7	7.12	6.96	7.22	5.33	3.09	1.80	8.75	8.49	0.16	-0.10	3.55	0.83	0.31	1.36



Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-574 ± 47	$61.60^{+43.25}_{-36.82}$	1258^{+70}_{-84}	3543^{+1297}_{-523}	28^{+129}_{-18}
Alt.	-404 ± 57	$46.98^{+38.36}_{-31.35}$	1255^{+76}_{-89}	3649^{+2064}_{-591}	34^{+296}_{-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 $A_{obs} \gg 1.0$

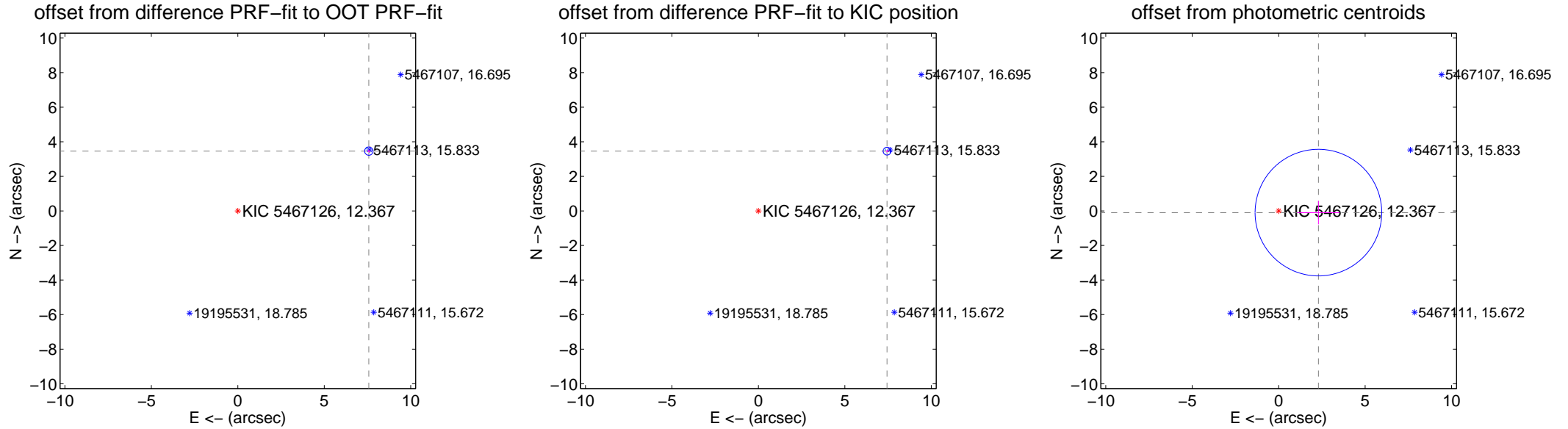
DV Centroid Data

Supplemental centroid analysis for 005467126-04. Kepler magnitude: 12.37. Transit SNR 13.44

There are 4 quarters with good PRF difference image offsets

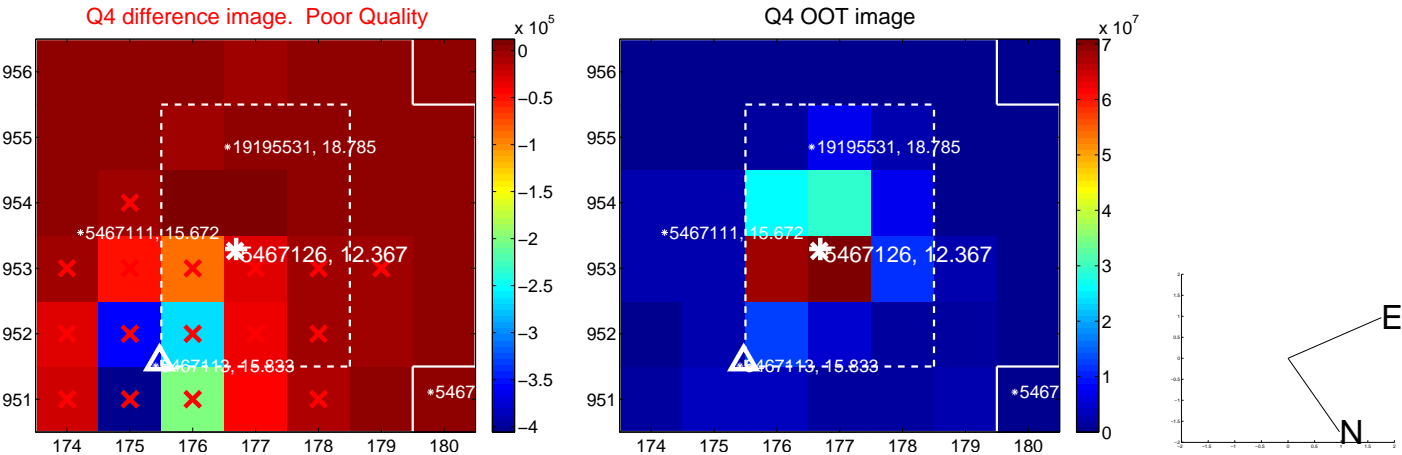
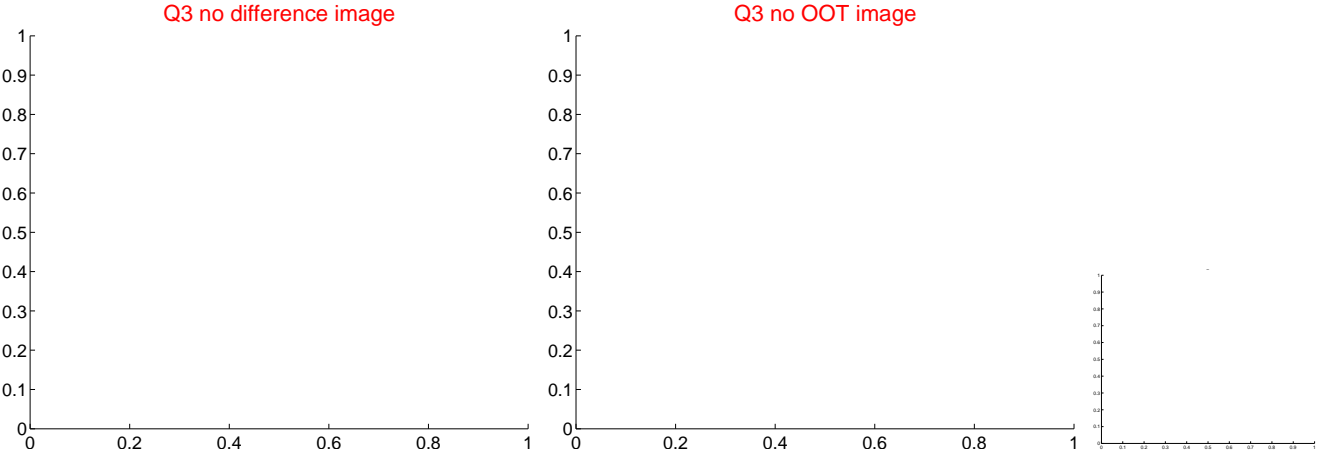
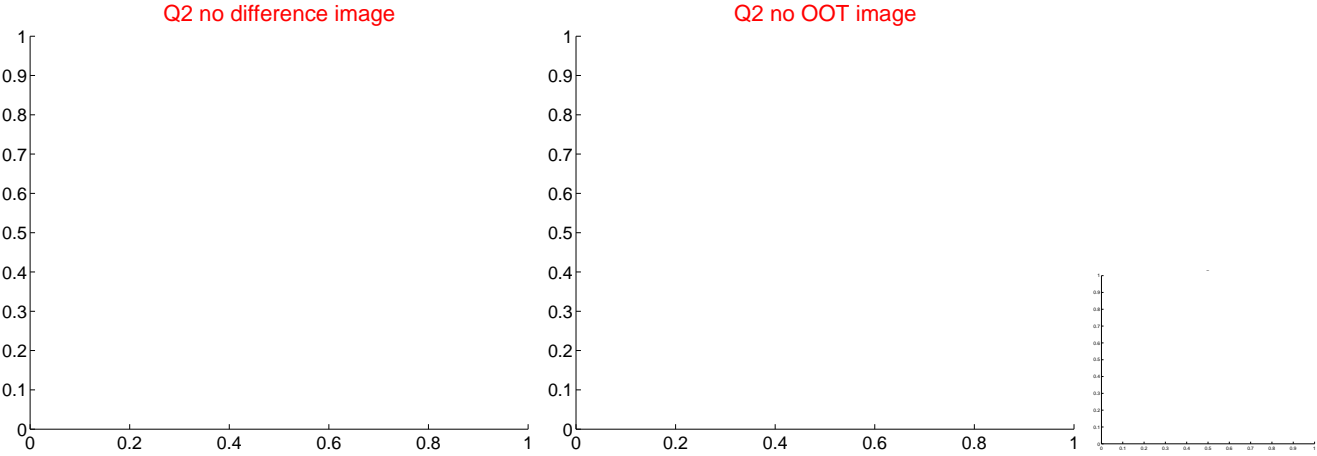
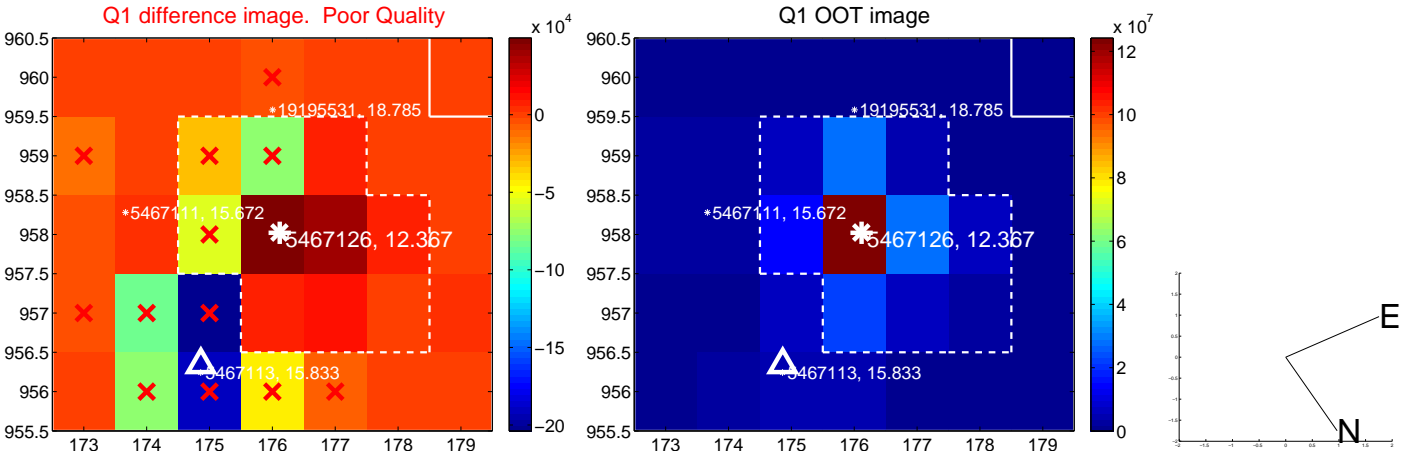
The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.331 ± 0.080	103.54	-7.579 ± 0.076	3.461 ± 0.080
PRF-fit source offset from KIC position	8.207 ± 0.075	108.96	-7.444 ± 0.074	3.457 ± 0.071
photometric centroid source offset	2.30 ± 1.22	1.88	-2.30 ± 1.22	-0.10 ± 0.68

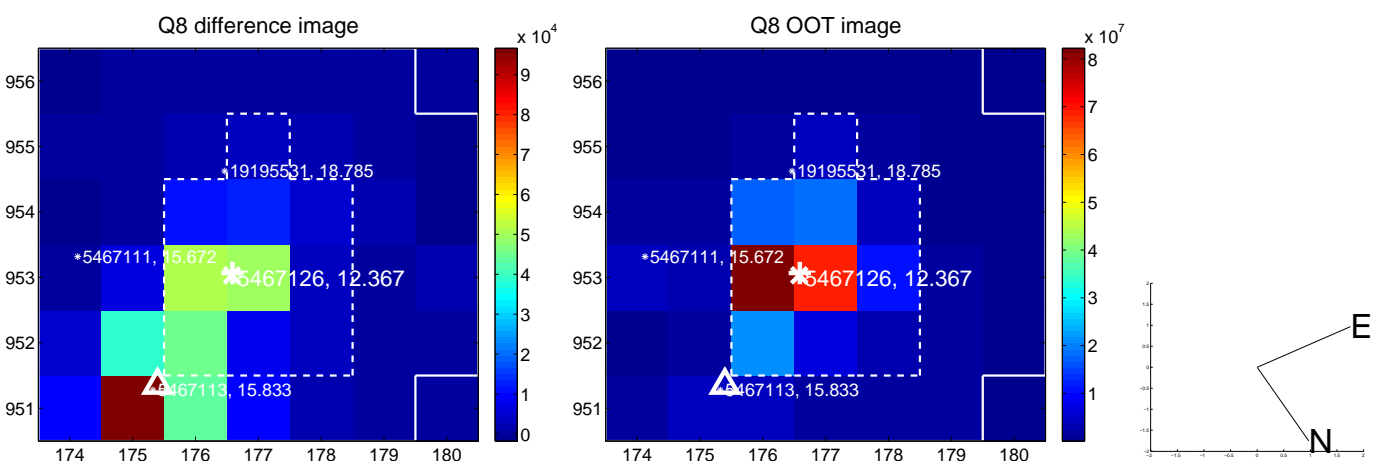
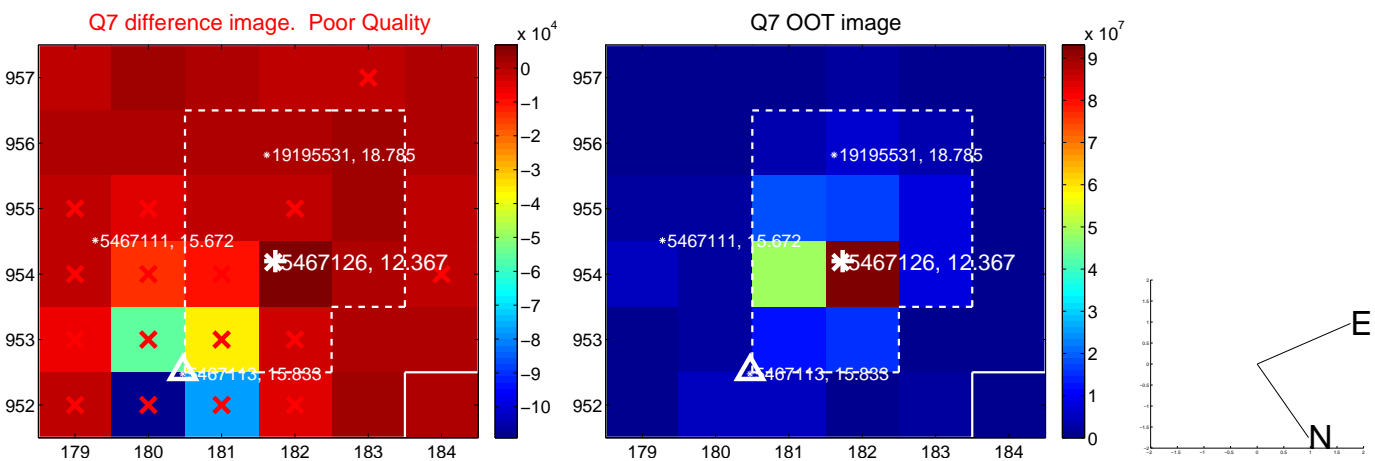
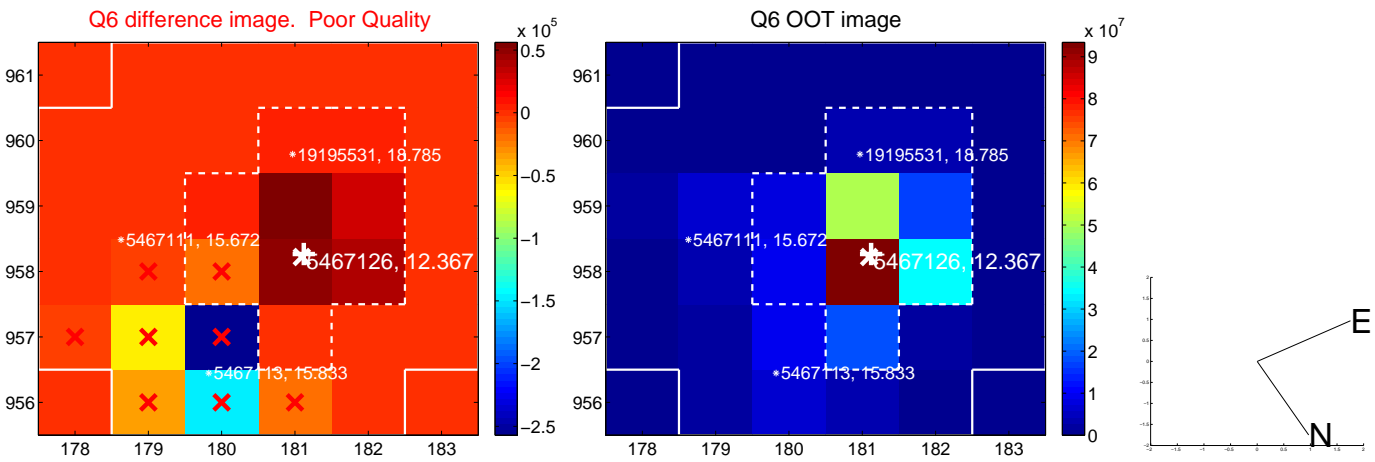
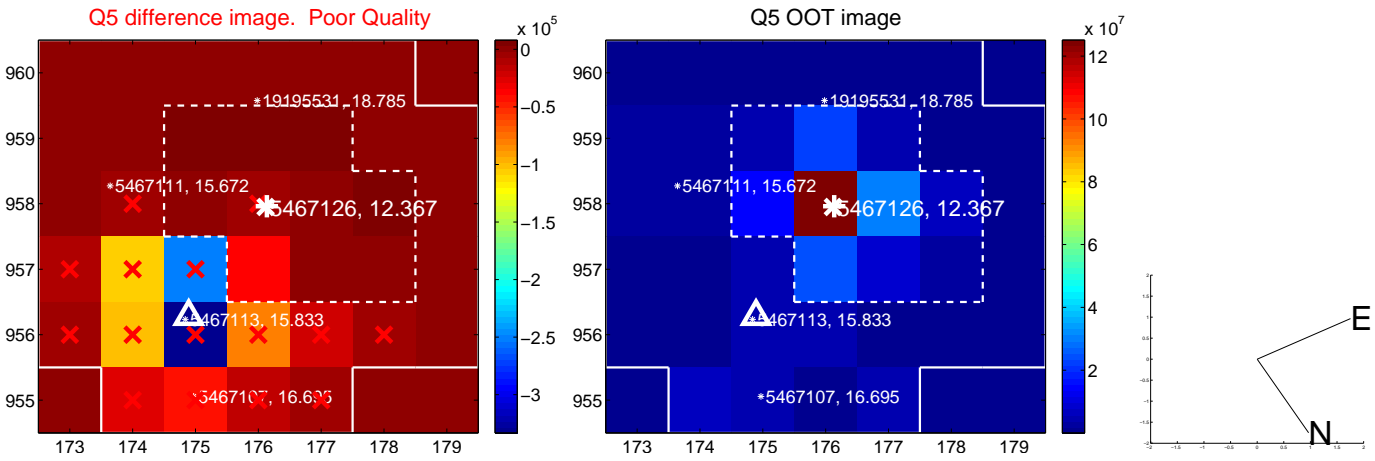


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

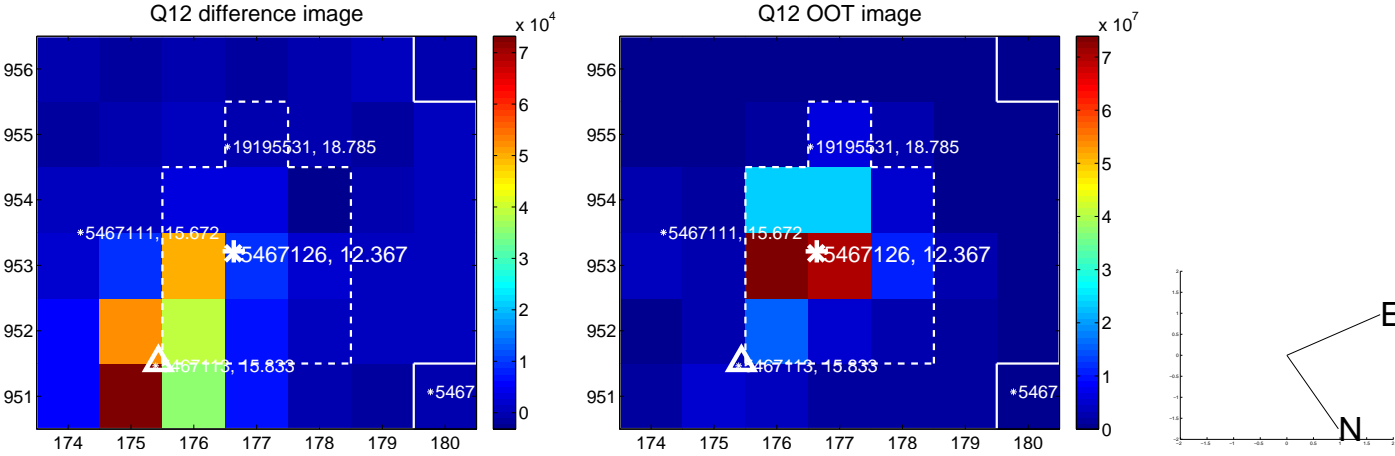
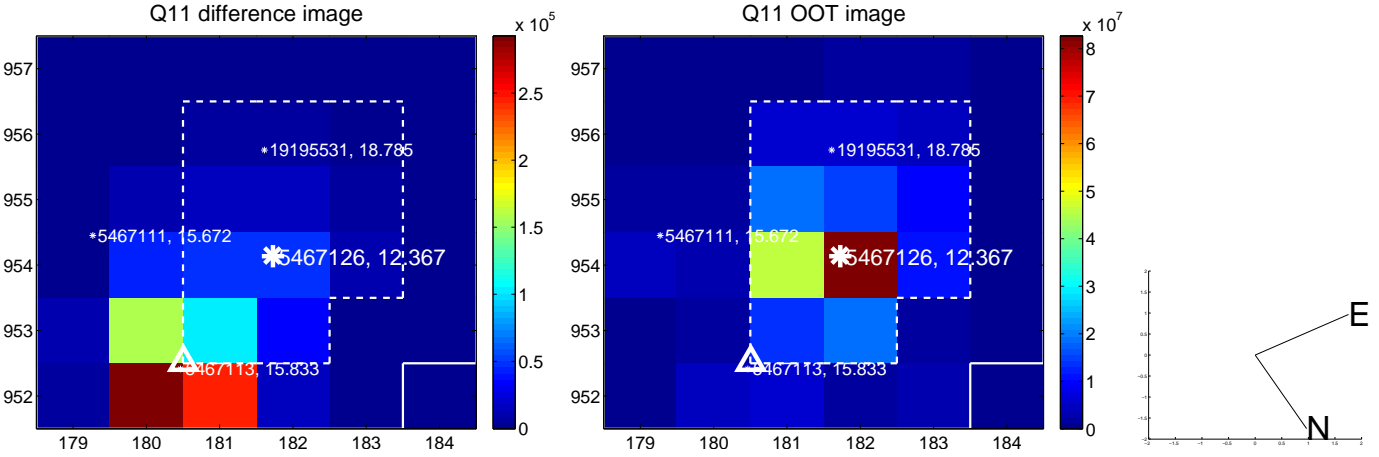
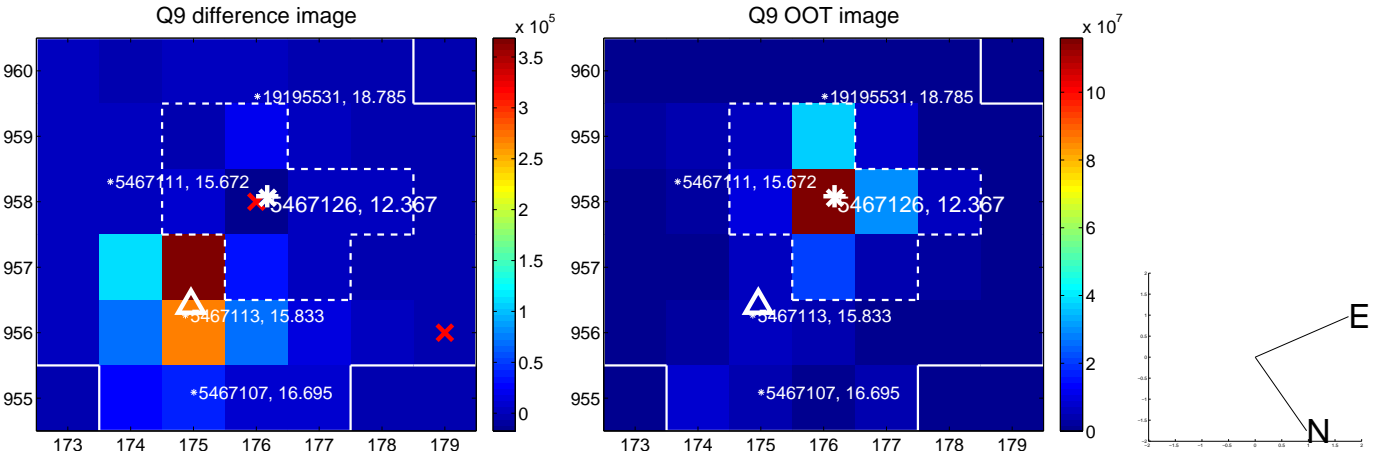
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



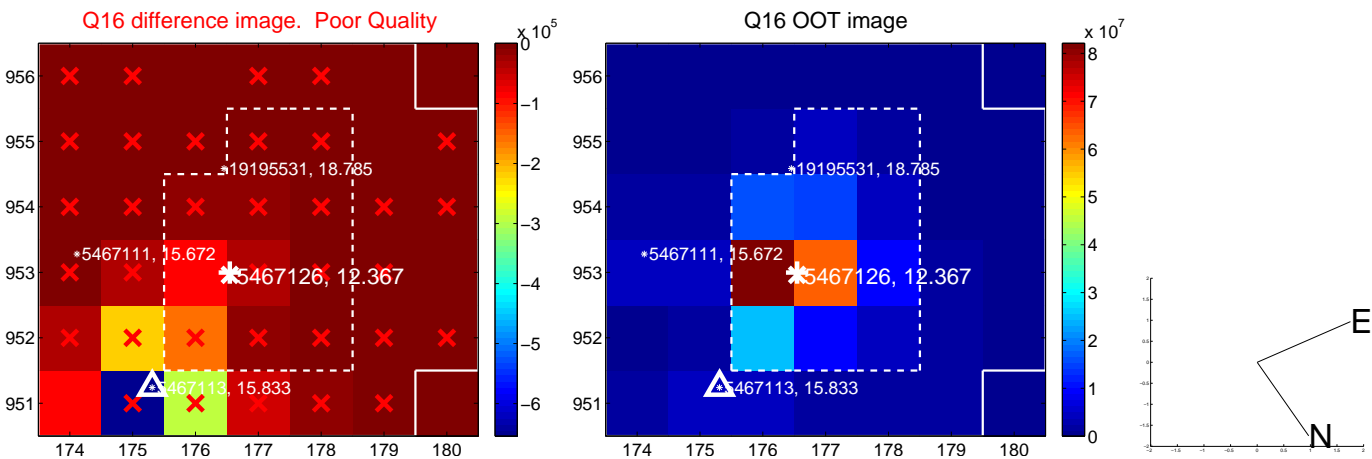
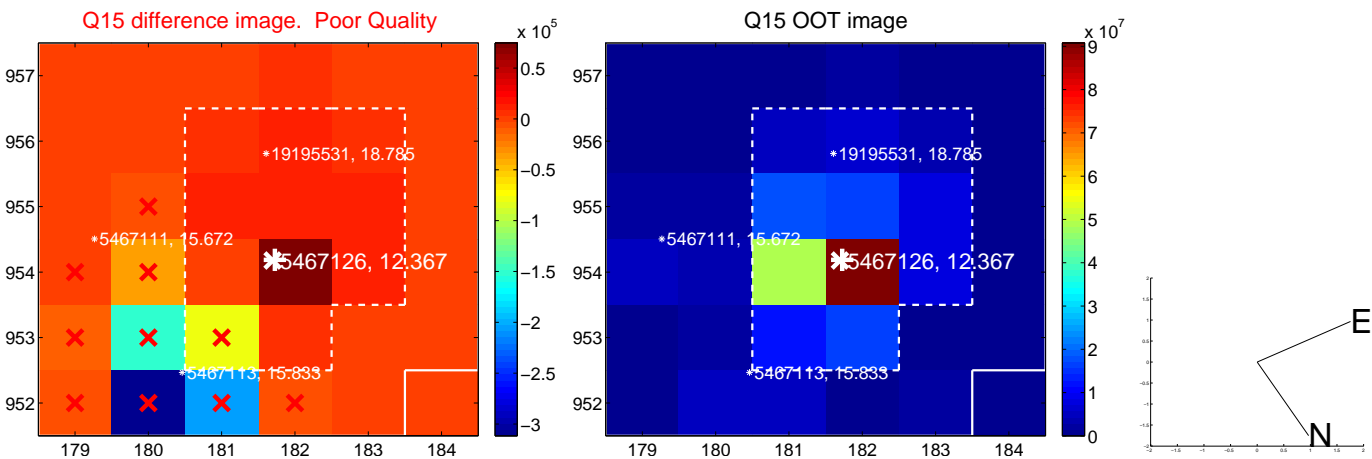
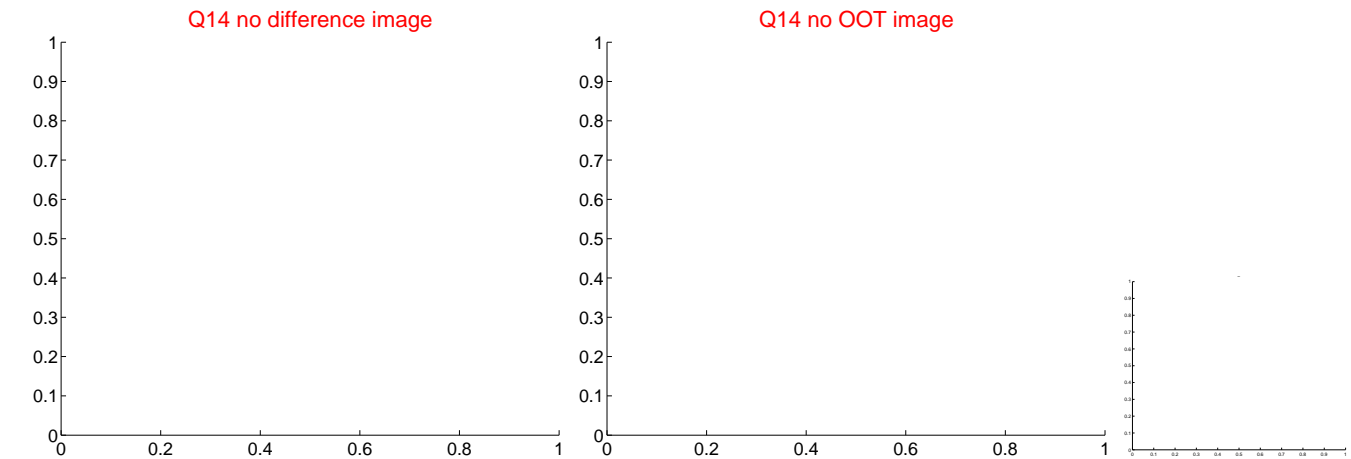
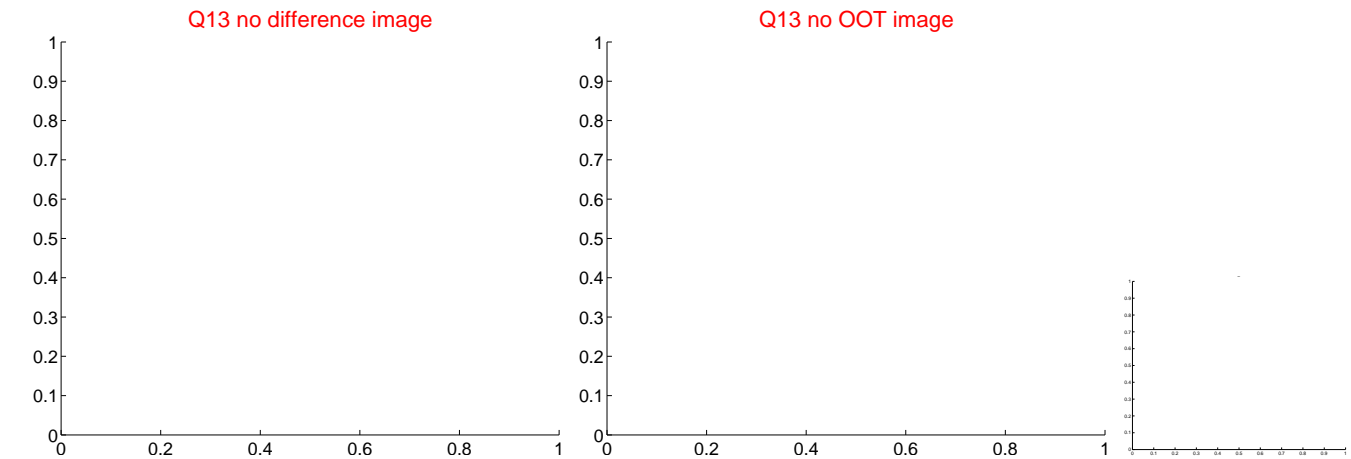
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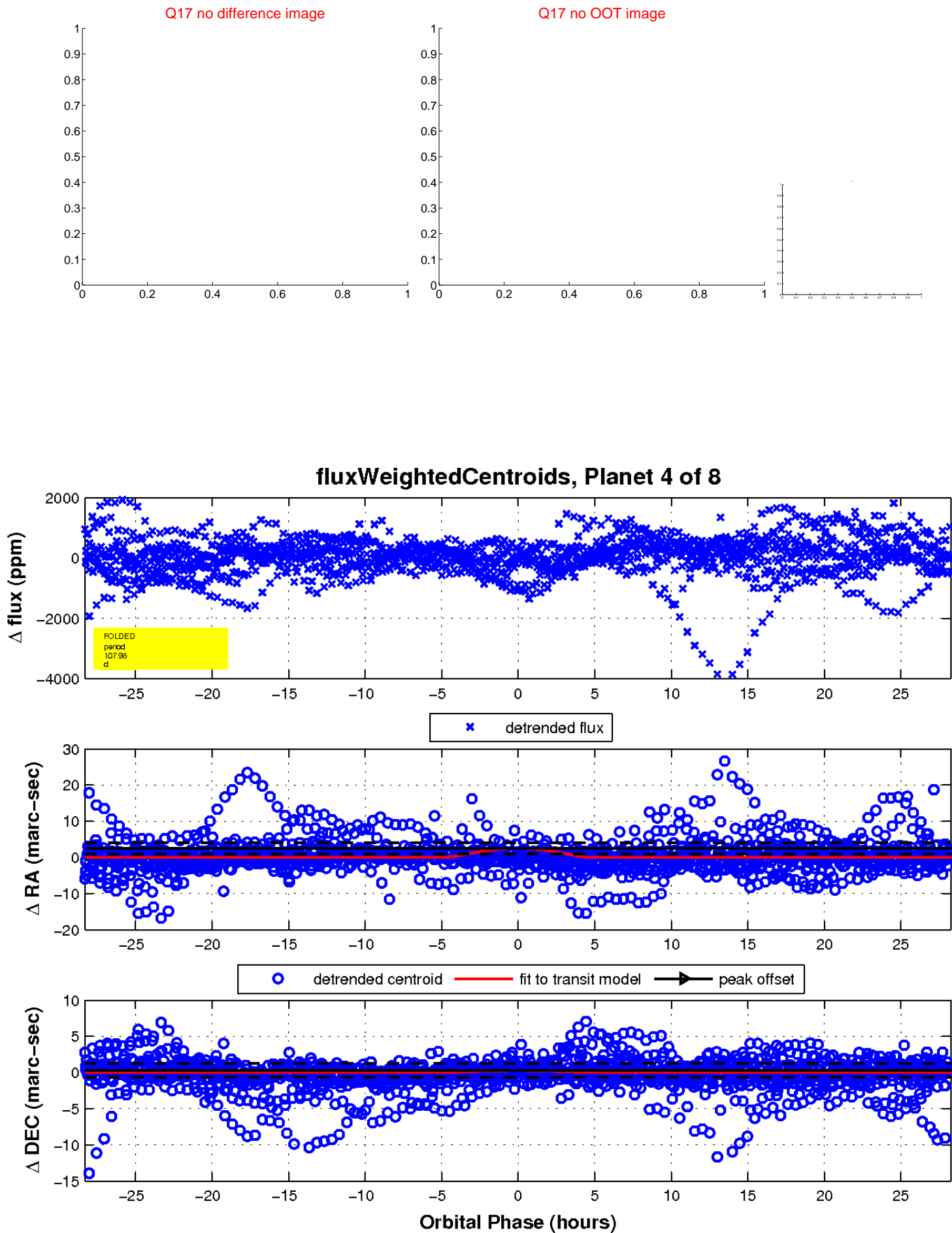
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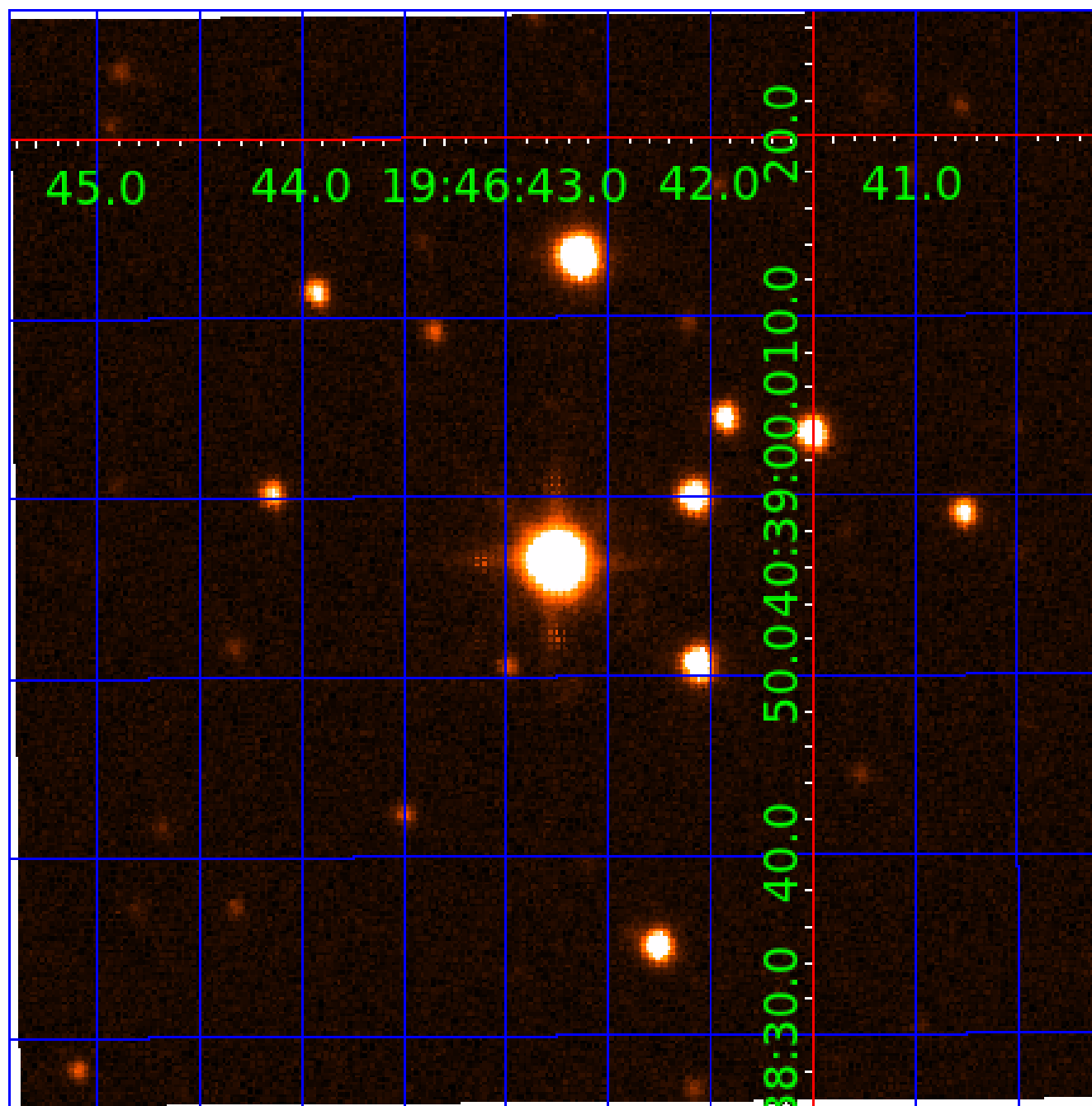


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005467126-05

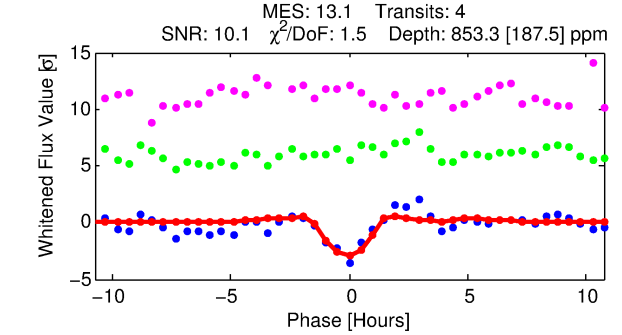
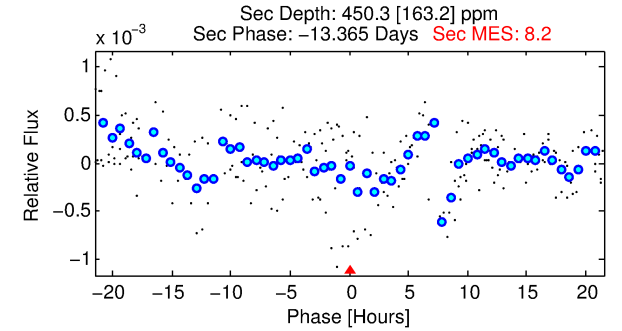
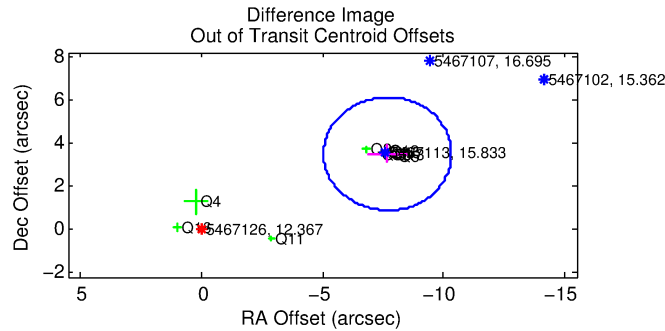
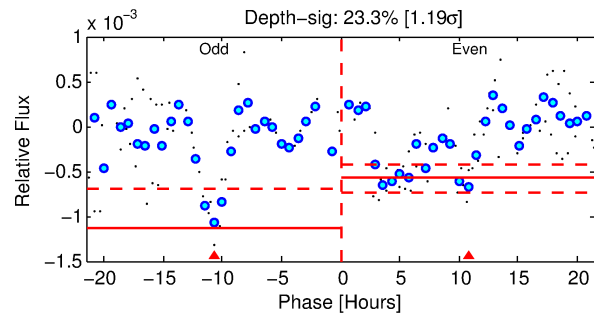
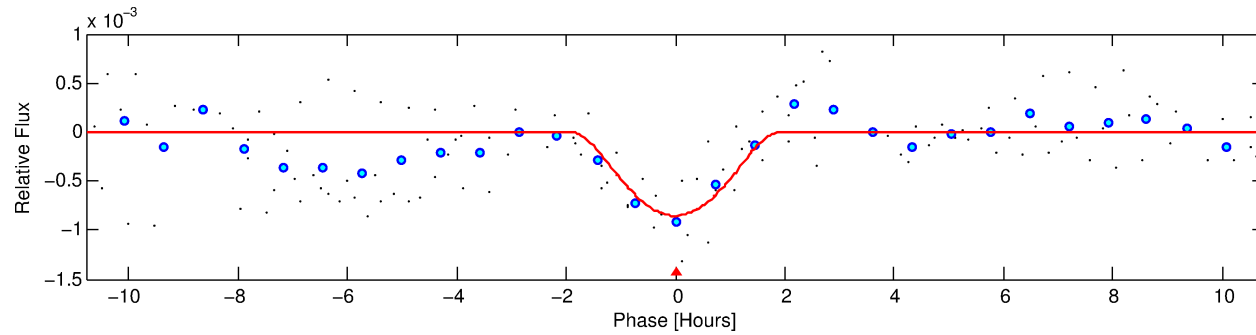
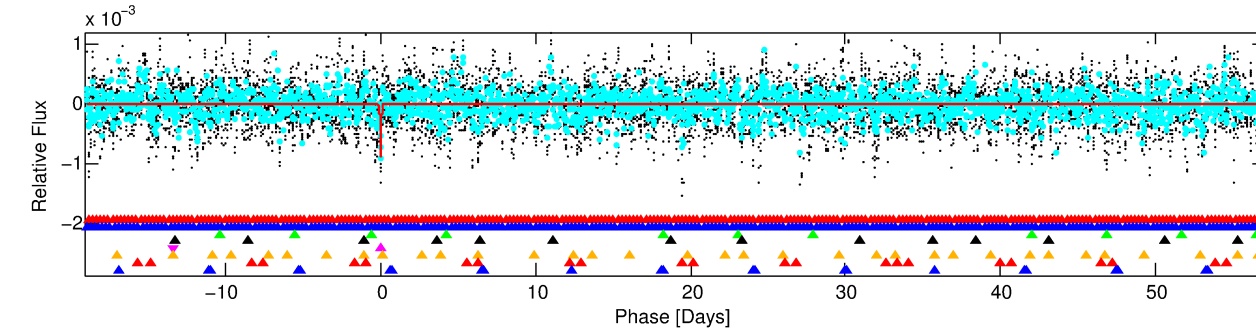
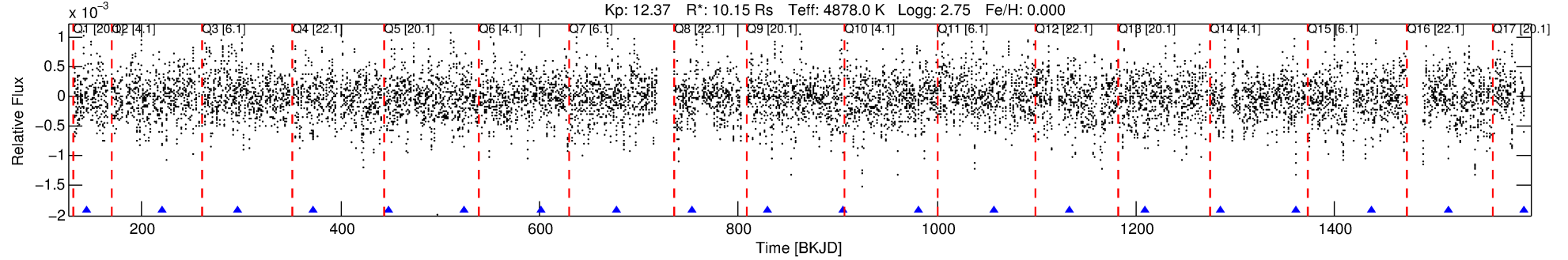
No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 5 of 8 Period: 76.059 d

KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



DV Fit Results:

Period = 76.05870 [0.00087] d
Epoch = 144.6120 [0.0114] BKJD
Rp/R* = 0.0532 [0.1828]
a/R* = 54.98 [46.55]
b = 1.00 [0.27]
Seff = 259.07 [102.45]
Teff = 1023 [101] K
Rp = 58.92 [203.70] Re
a = 0.4493 [0.1296] AU
Ag = 14.41 [99.35] [0.13σ]
Teffp = 3082 [5304] K [0.39σ]

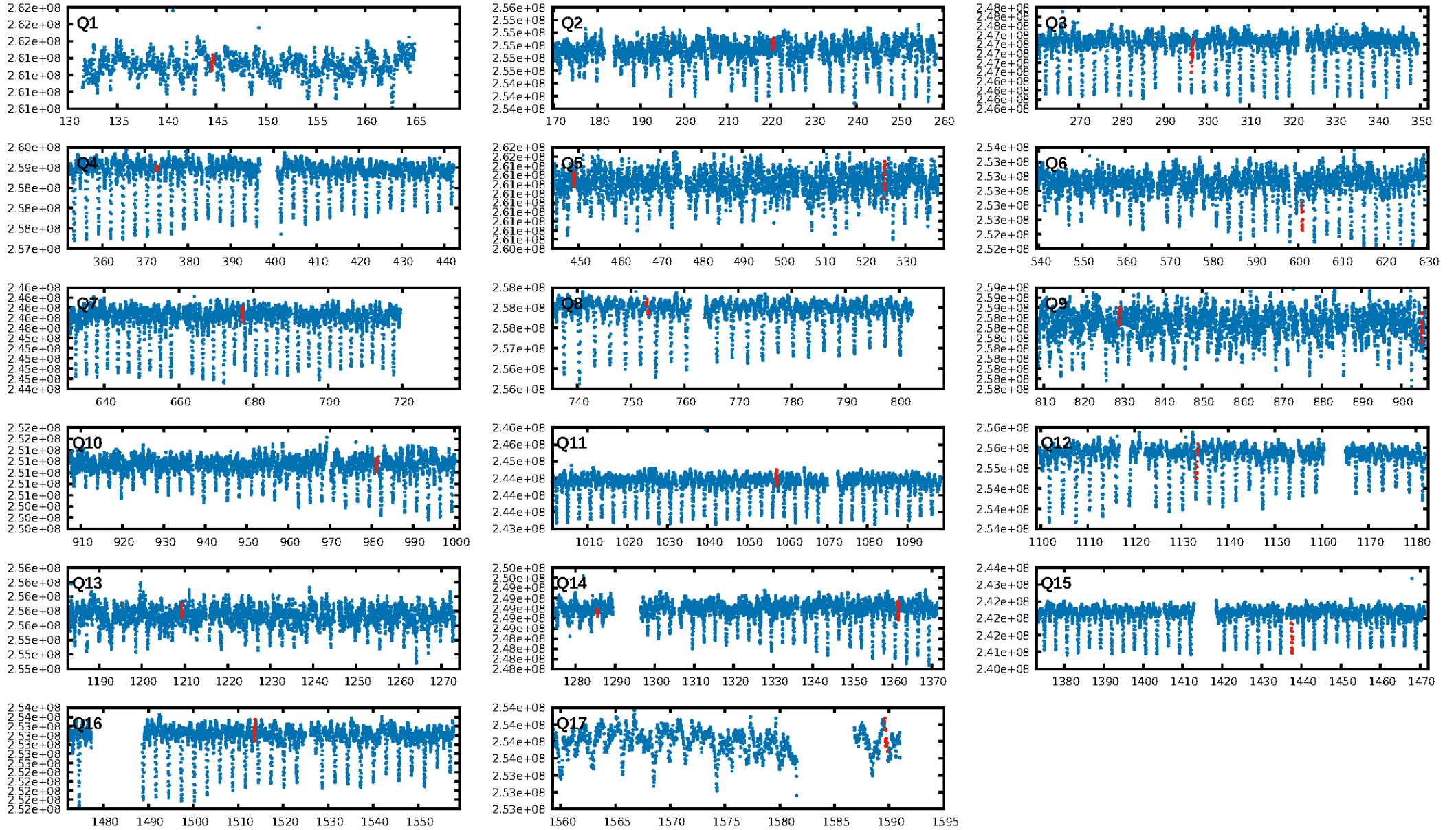
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [65.34σ]
LongPeriod-sig: 100.0% [75.89σ]
ModelChiSquare2-sig: 4.2%
ModelChiSquareGof-sig: 84.7%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 4.997
Centroid-sig: 0.8%
Centroid-so: 1.615 arcsec [1.94σ]
OotOffset-rm: 8.446 arcsec [9.59σ]
KicOffset-rm: 8.328 arcsec [8.37σ]
OotOffset-st: 2/3/3/4 [12]
KicOffset-st: 2/3/3/4 [12]
DiffImageQuality-fgm: 0.33 [4/12]
DiffImageOverlap-fno: 0.19 [3/16]

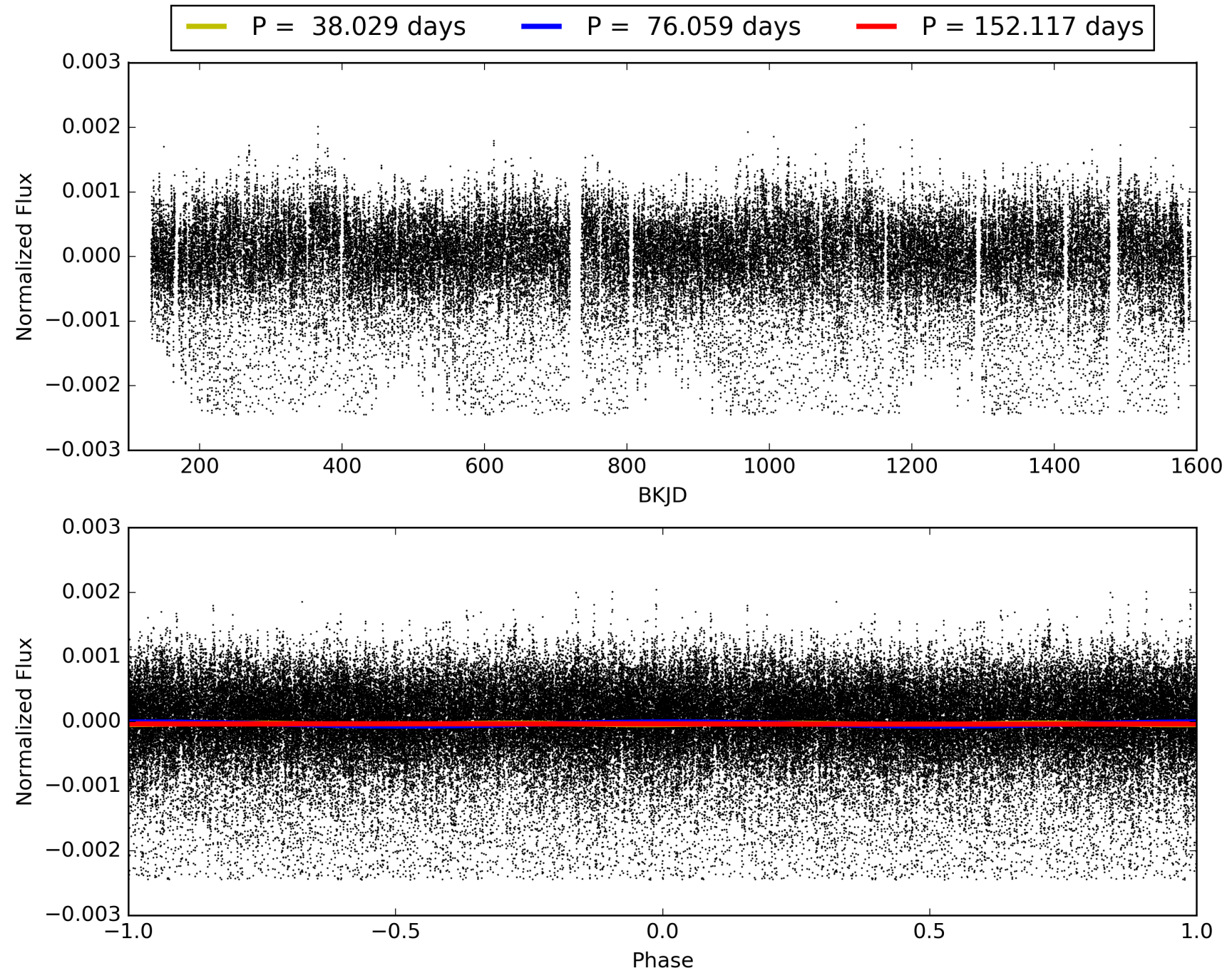
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:39:55 Z

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

TCE 005467126-05, PDC Light Curves

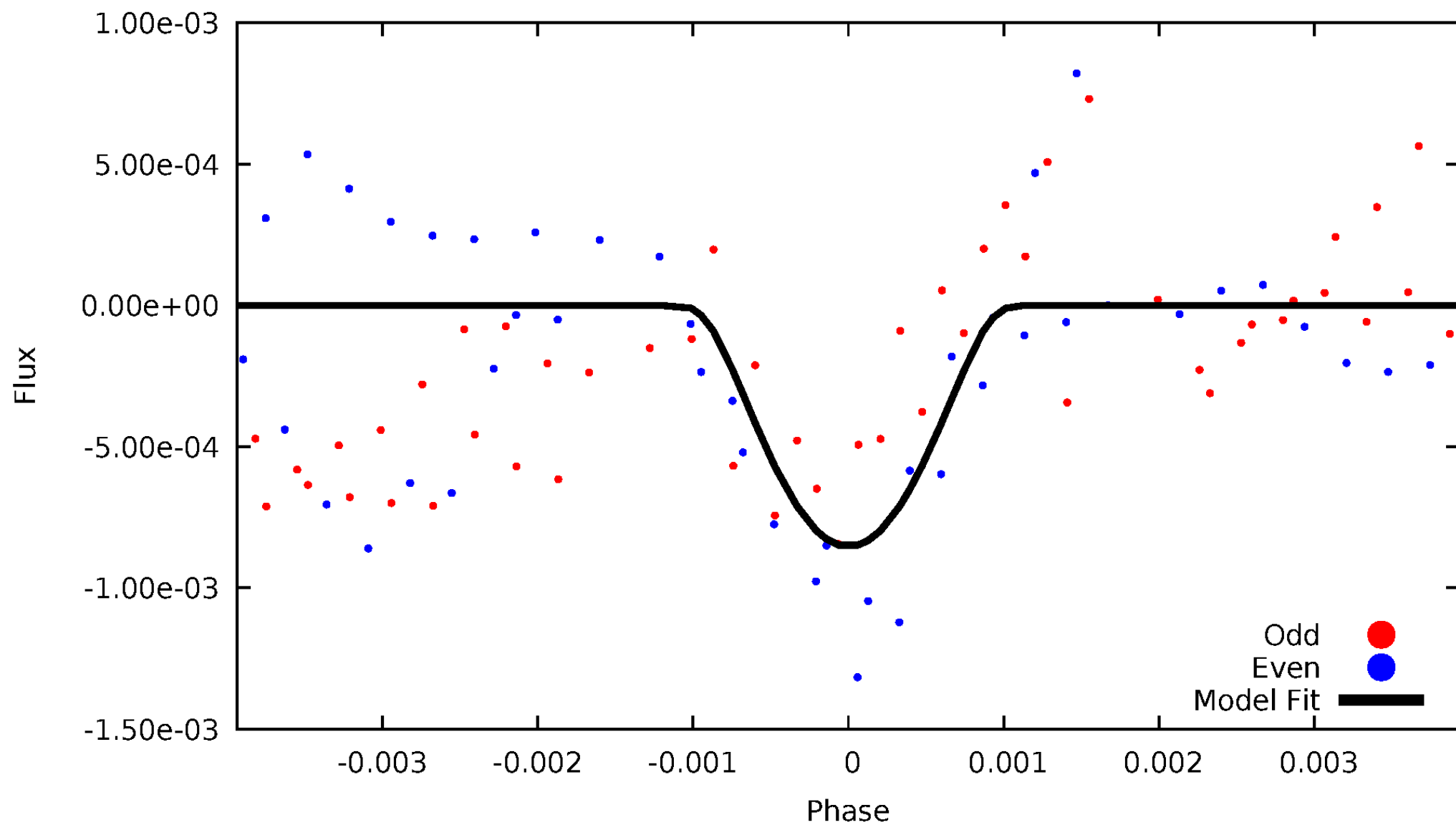


TCE 005467126-05



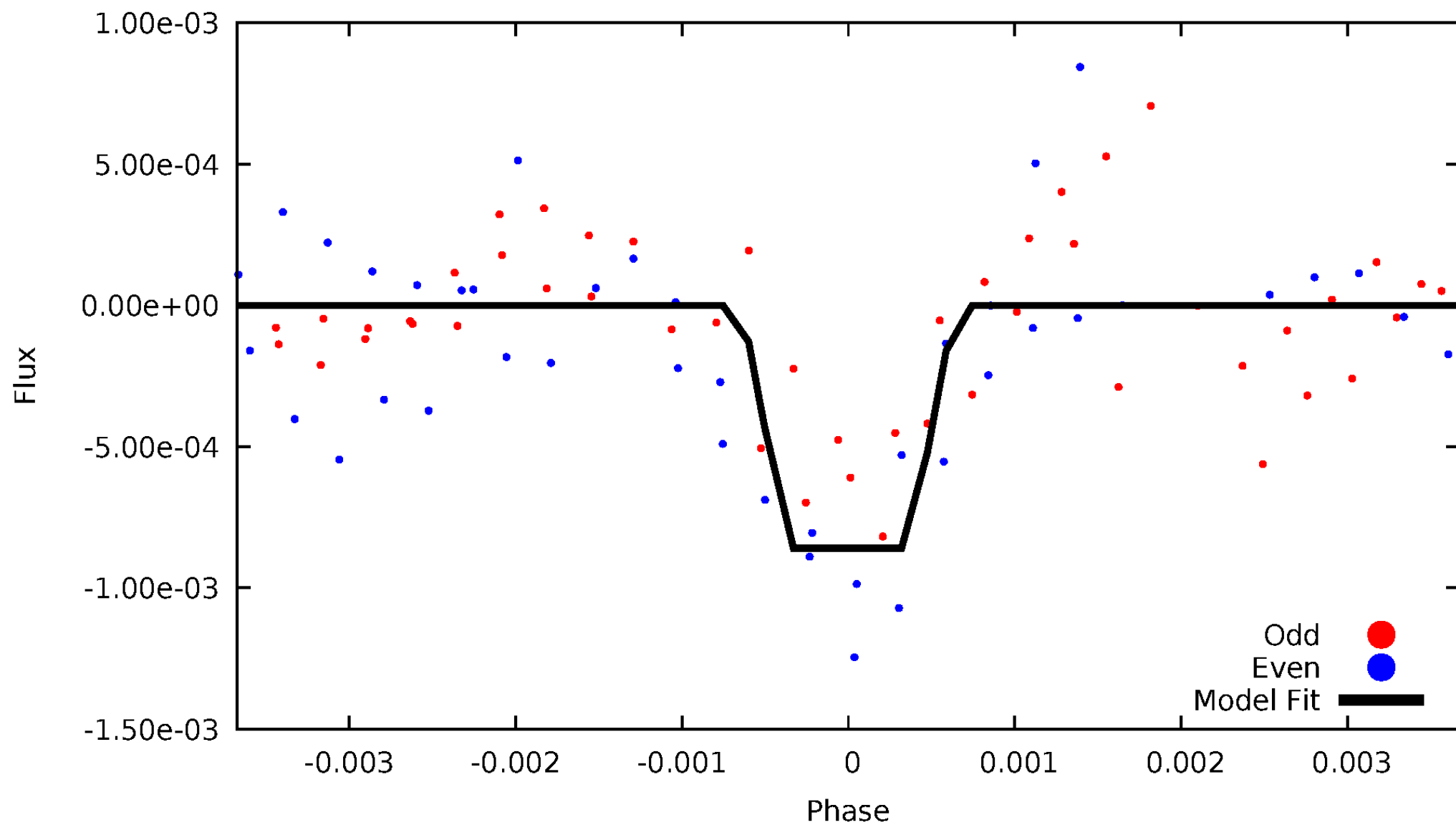
DV Odd/Even

TCE 005467126-05



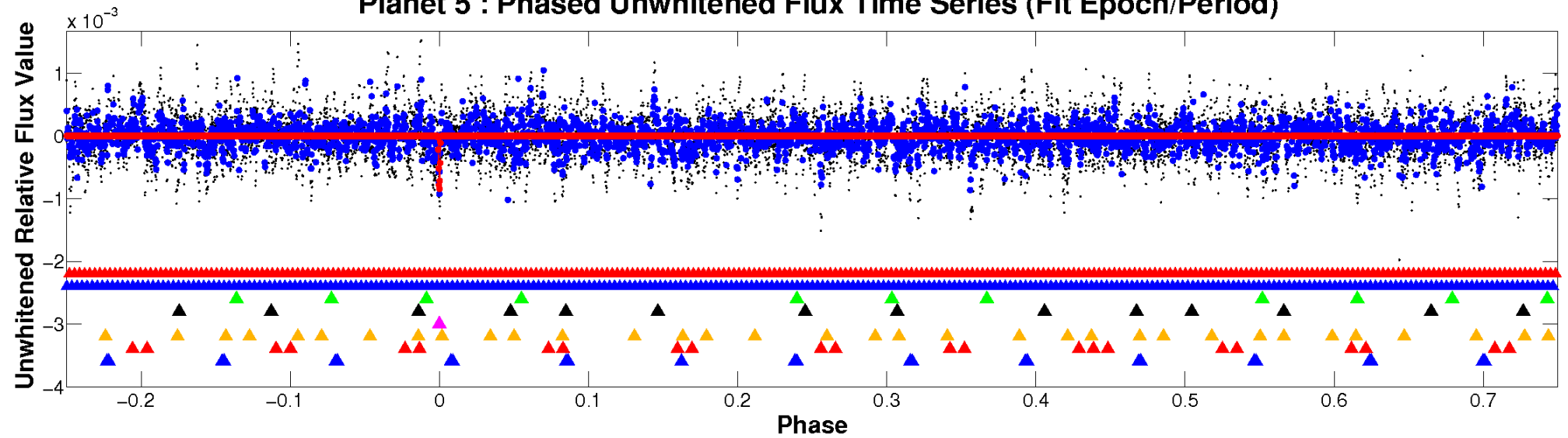
ALT Odd/Even

TCE 005467126-05

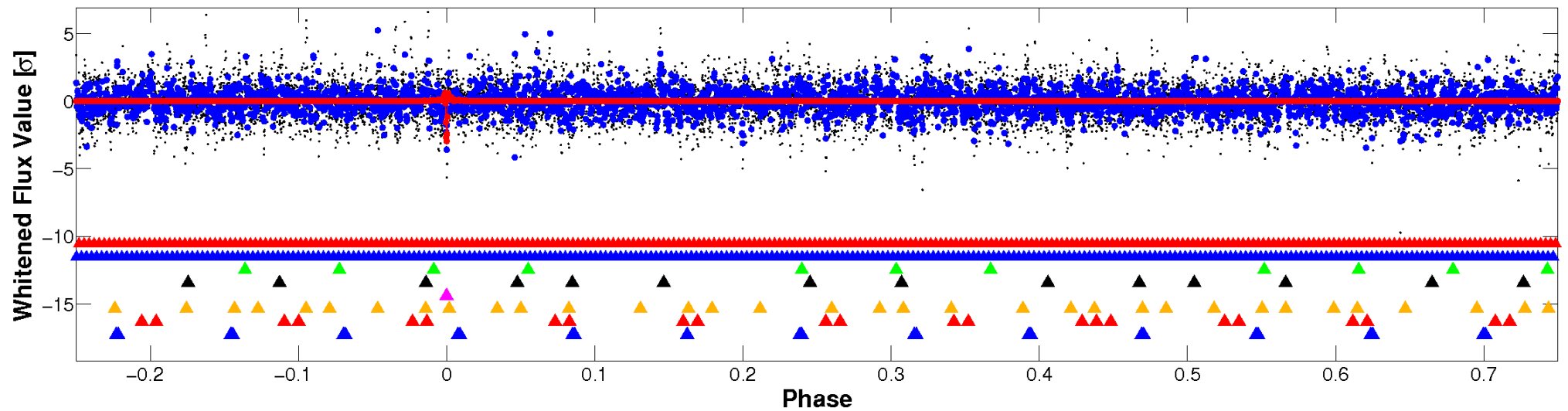


Non-Whitened Vs. Whitened Light Curve

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

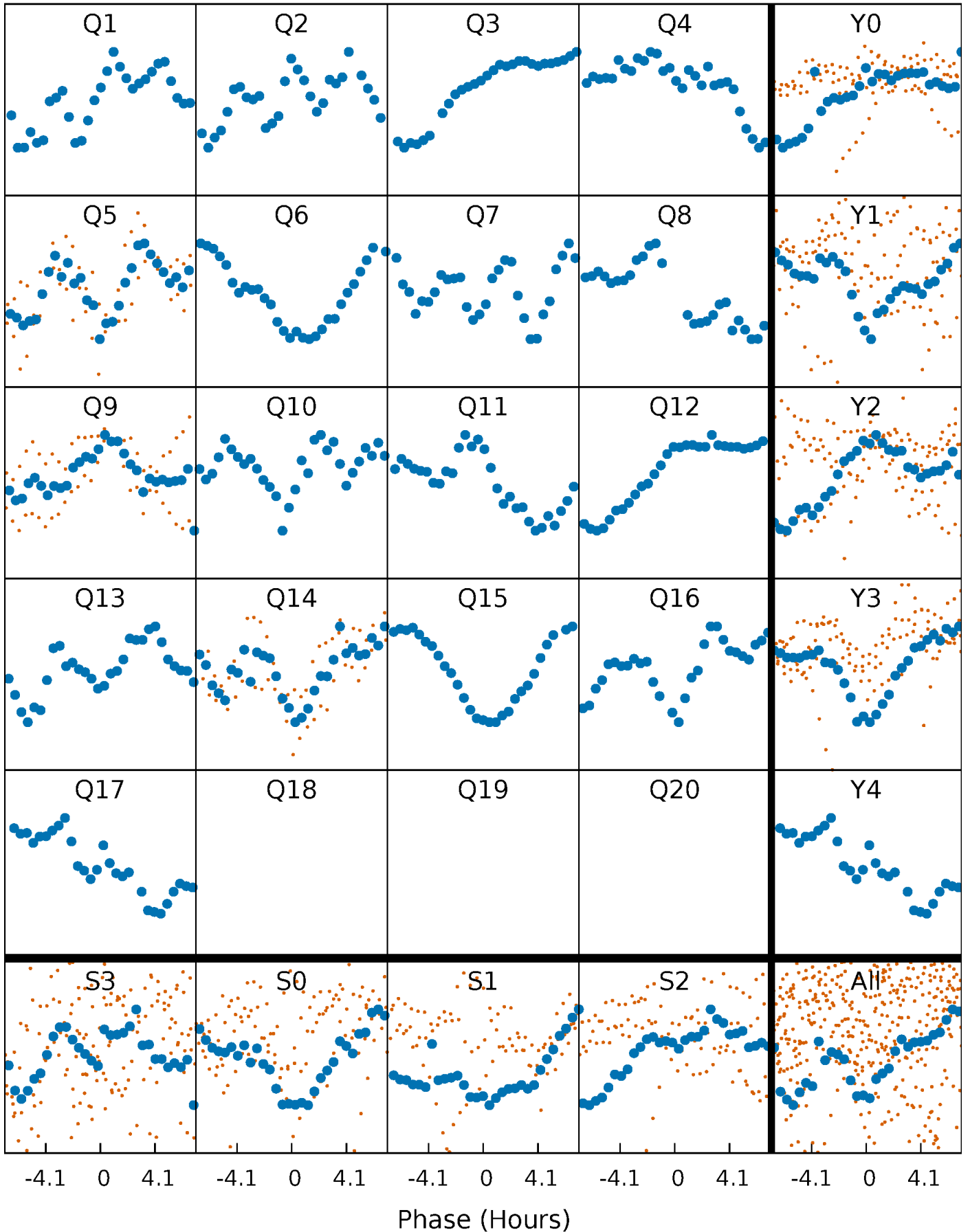


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



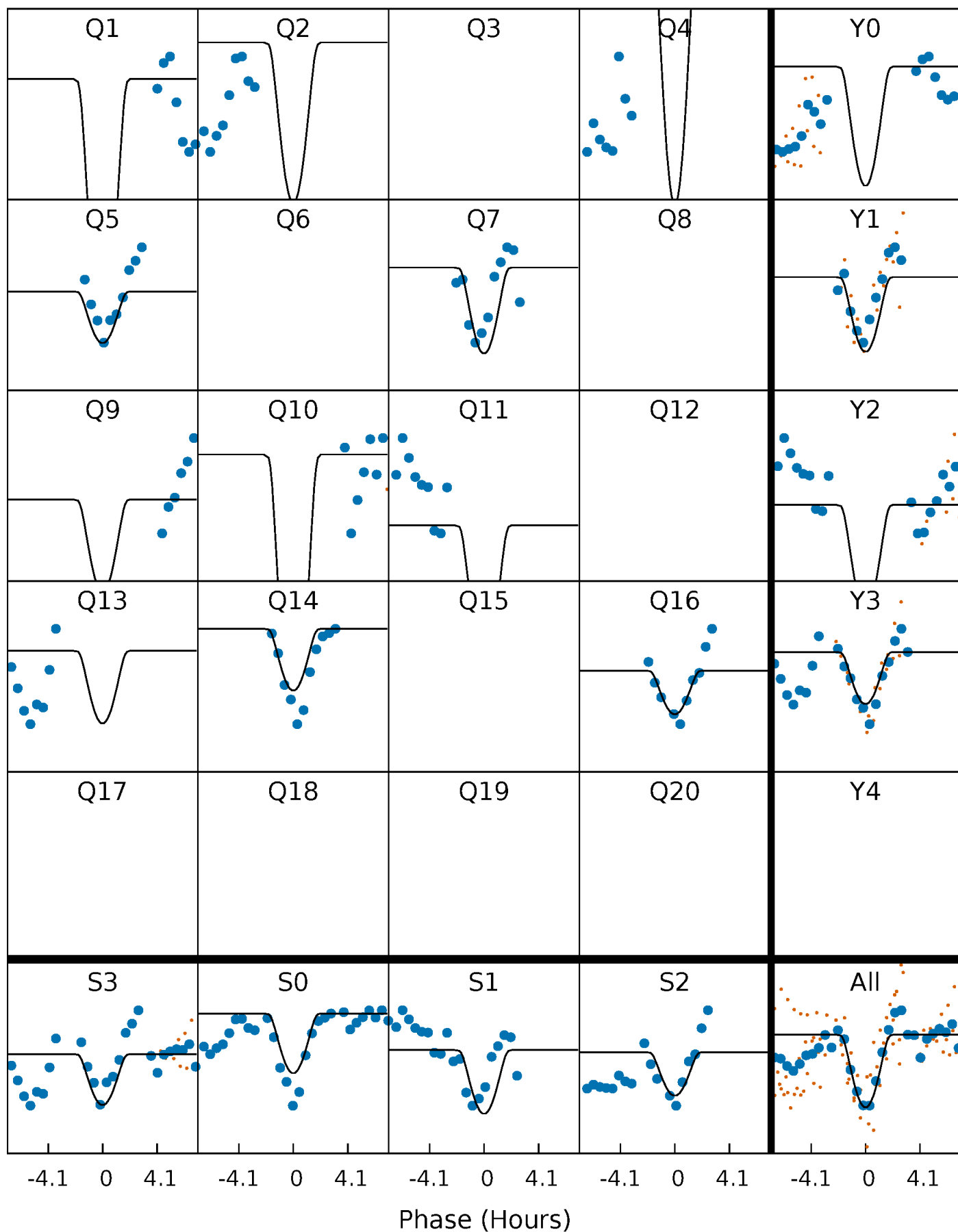
PDC Quarter-Phased Transit Curves

TCE 005467126-05 P= 76.058703 Days $T_0=144.612013$ (BKJD)



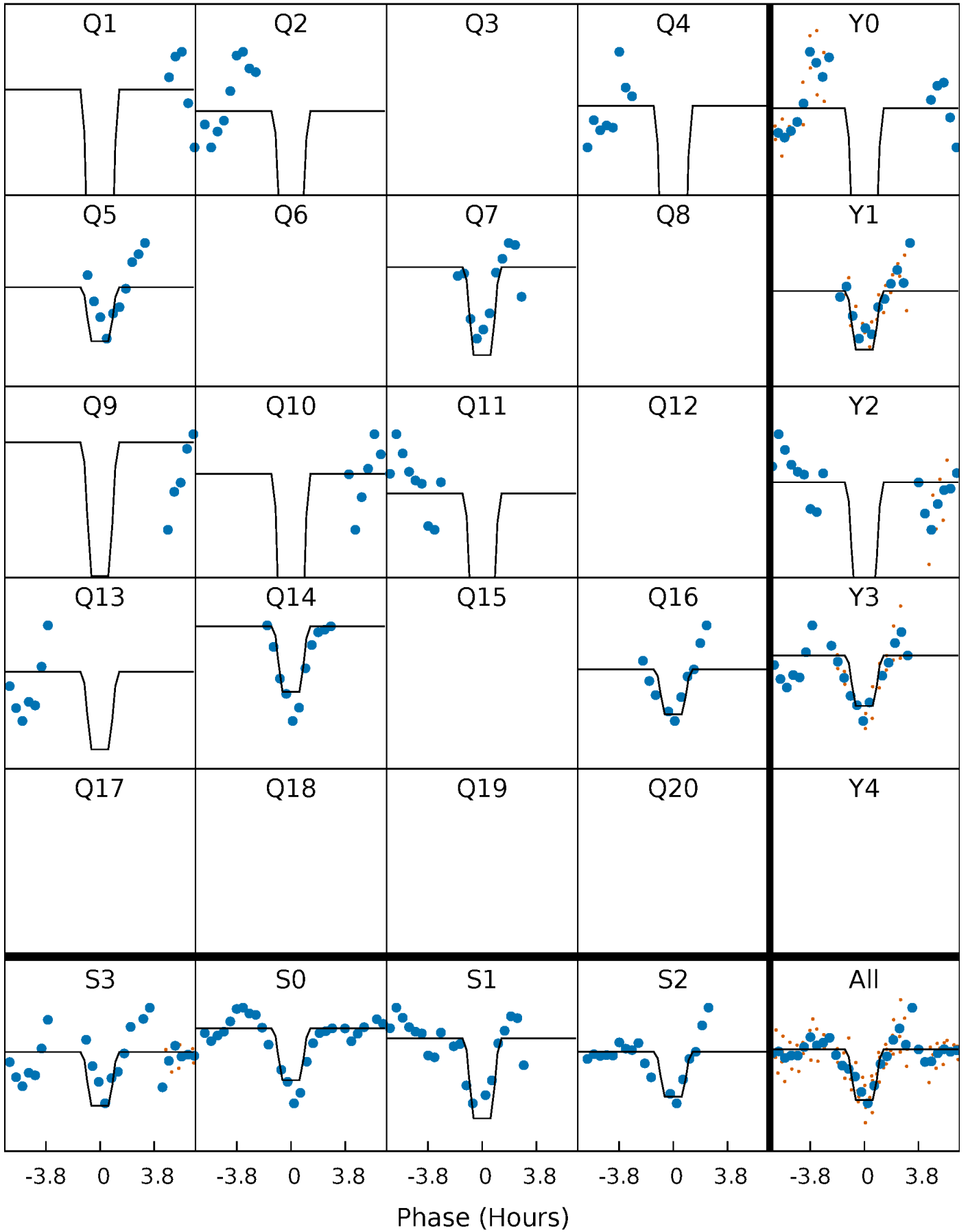
DV Quarter-Phased Transit Curves

TCE 005467126-05 P= 76.058703 Days $T_0=144.612013$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

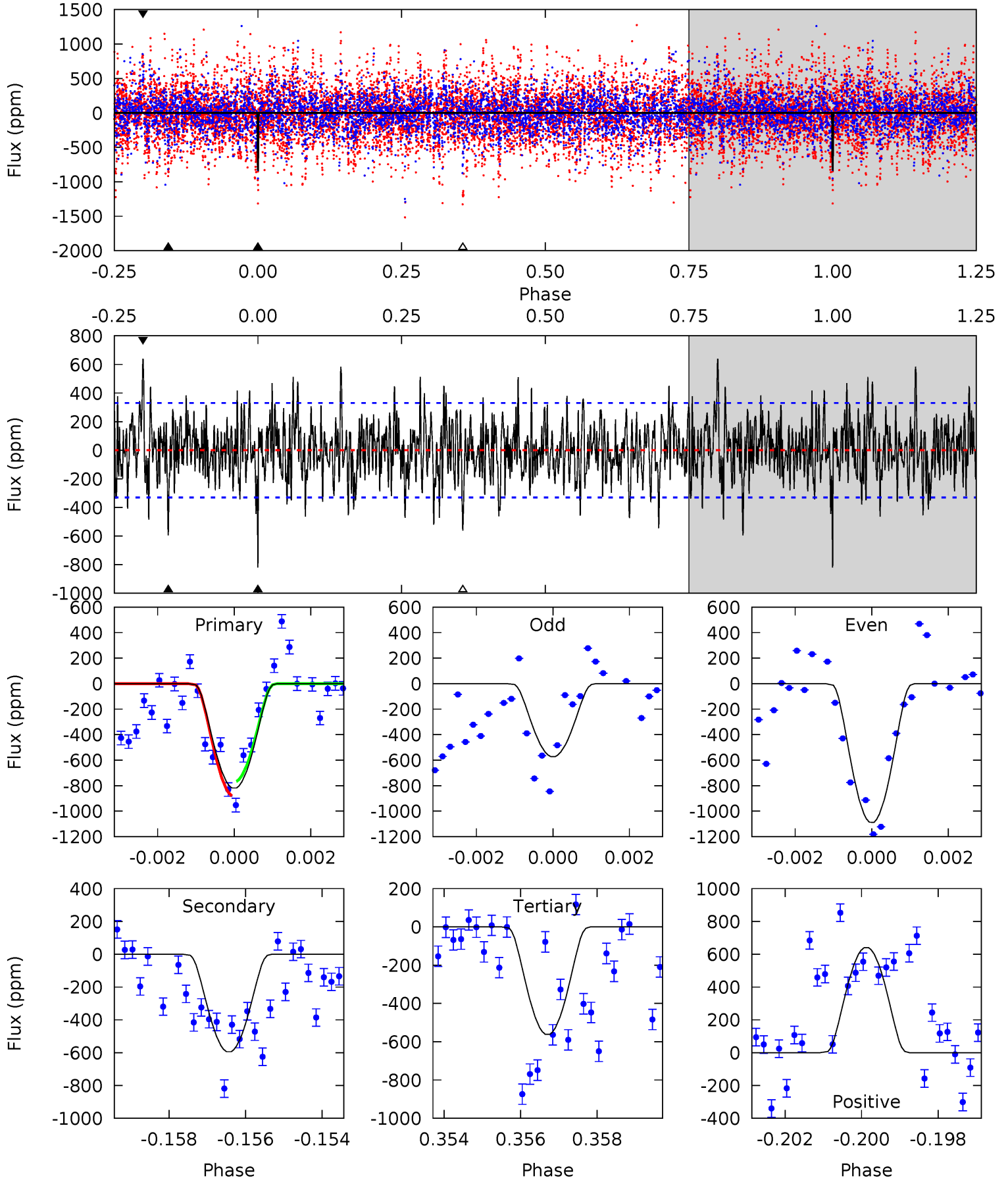
TCE 005467126-05 P= 76.060727 Days $T_0=144.581421$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-05, P = 76.058703 Days, E = 68.553310 Days

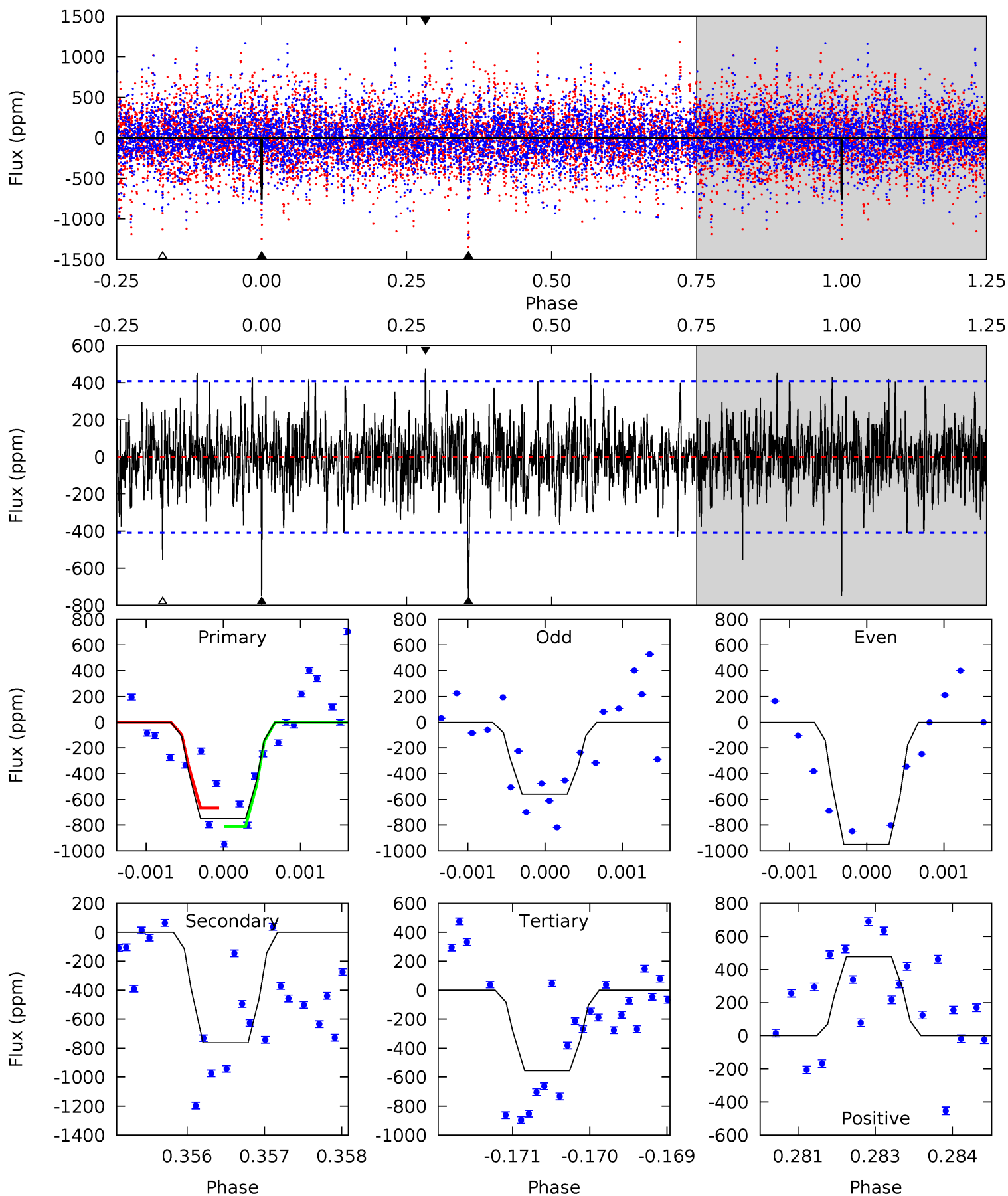
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.2	9.60	9.06	10.3	5.32	3.09	2.76	4.15	2.88	0.53	-0.73	4.13	1.07	0.44	0.92



Alt Model-Shift Uniqueness Test

005467126-05, P = 76.060727 Days, E = 68.520694 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.98	10.1	7.39	6.35	5.43	3.26	1.82	2.59	3.63	2.75	3.78	2.59	1.09	0.39	0.95



Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-595 ± 62	$149.90^{+188.03}_{-99.49}$	1414^{+82}_{-100}	2697^{+1123}_{-577}	$2.957^{+24.877}_{-2.332}$
Alt.	-762 ± 75	$145.13^{+157.72}_{-101.74}$	1411^{+84}_{-105}	2854^{+1238}_{-551}	$4.151^{+40.693}_{-3.210}$

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 $A_{obs} \gg 1.0$

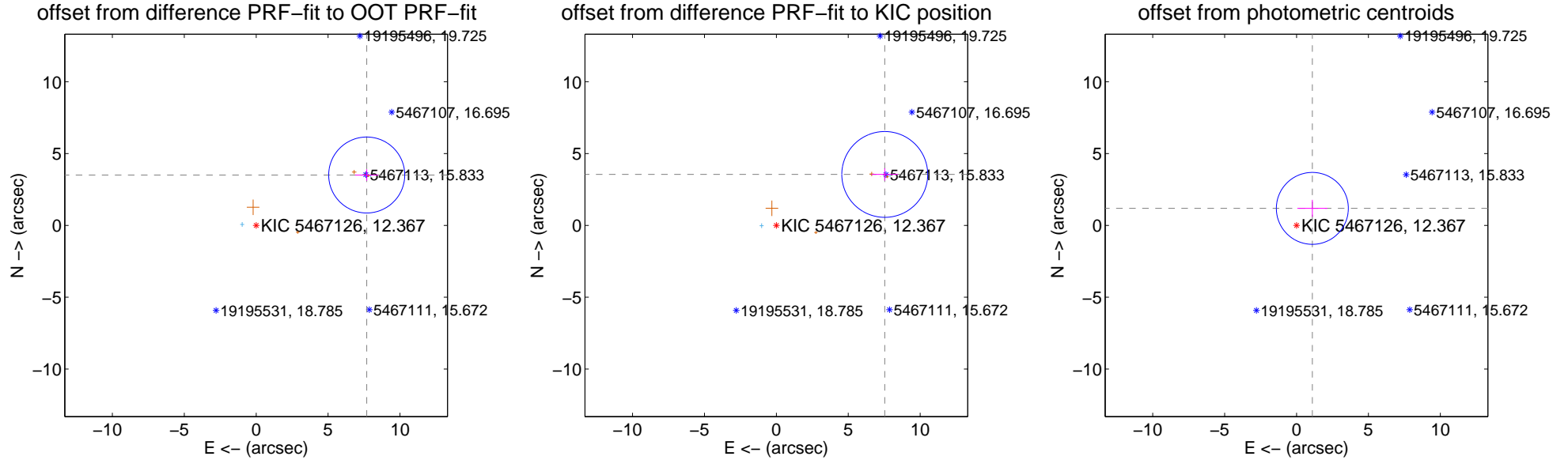
DV Centroid Data

Supplemental centroid analysis for 005467126-05. Kepler magnitude: 12.37. Transit SNR 10.05

There are 4 quarters with good PRF difference image offsets

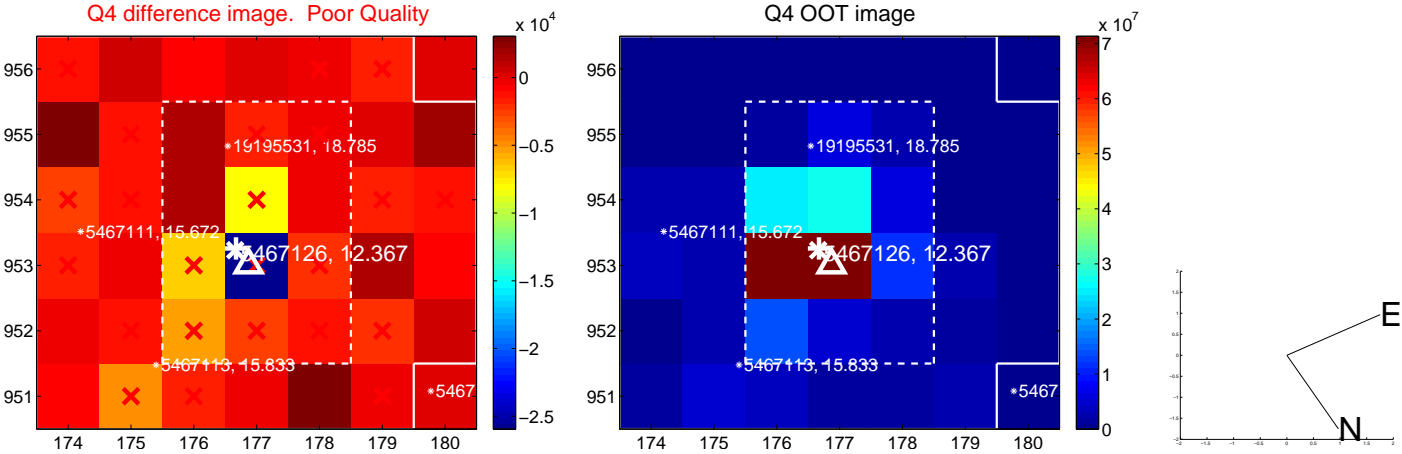
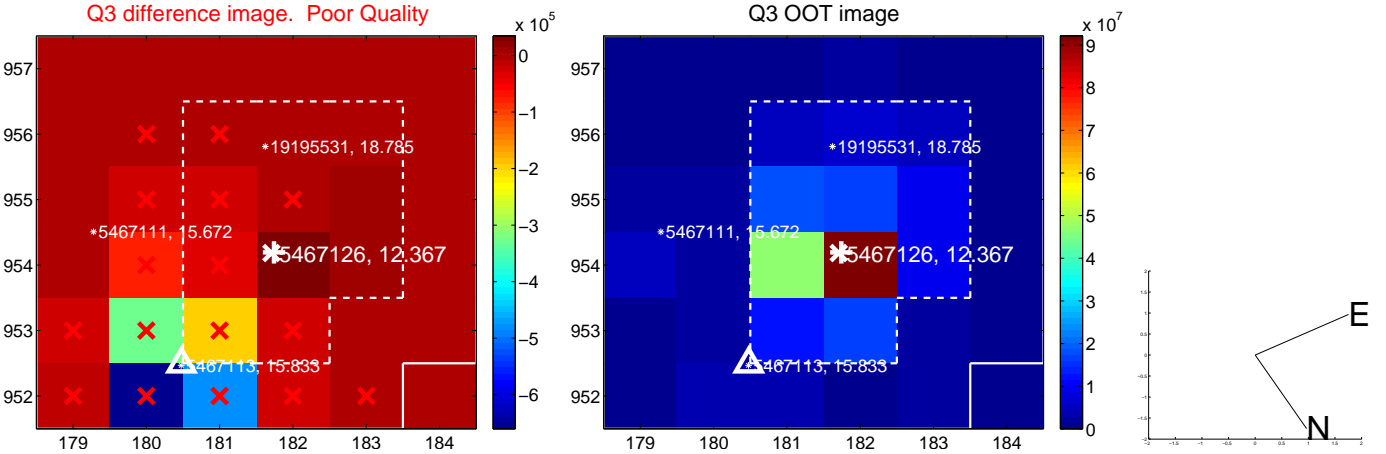
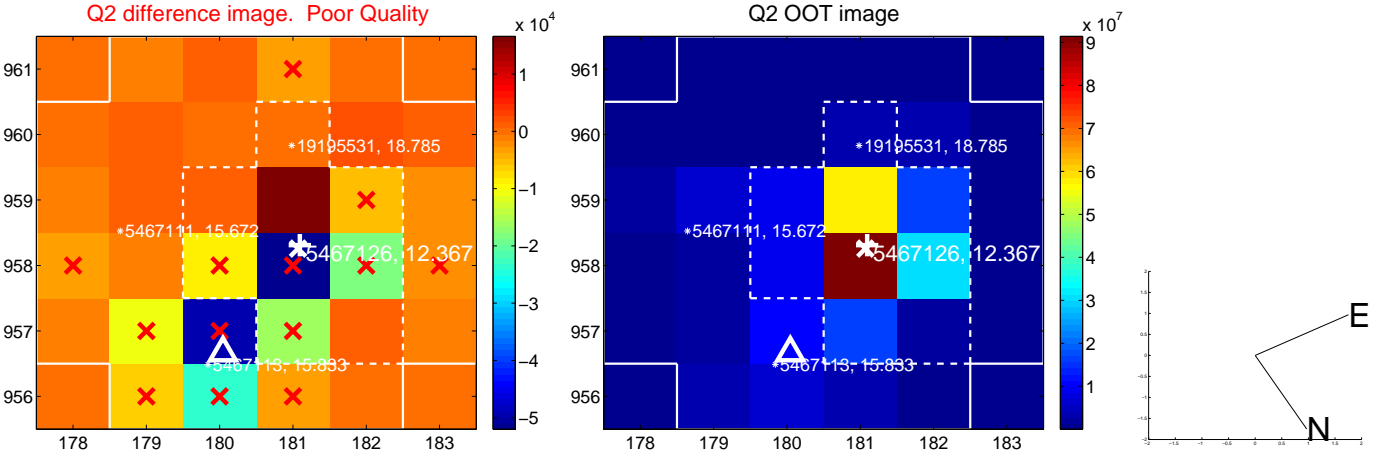
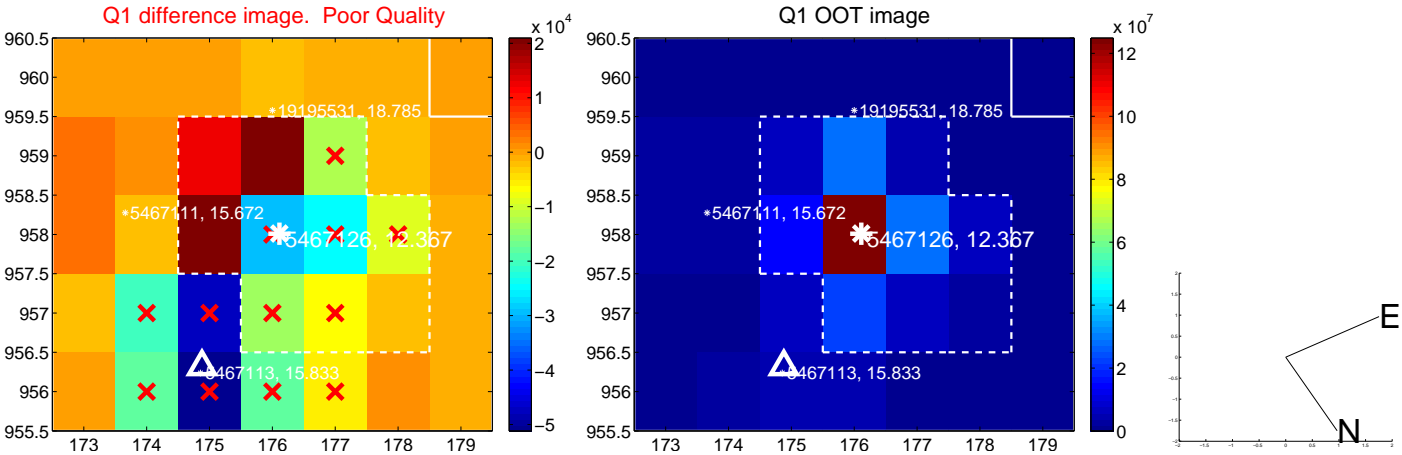
The direct PRF centroid is offset from the target star catalog position by about 0.10 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.446 ± 0.881	9.59	-7.684 ± 0.804	3.507 ± 0.401
PRF-fit source offset from KIC position	8.328 ± 0.995	8.37	-7.535 ± 0.916	3.546 ± 0.433
photometric centroid source offset	1.62 ± 0.83	1.94	-1.10 ± 1.05	1.18 ± 0.59

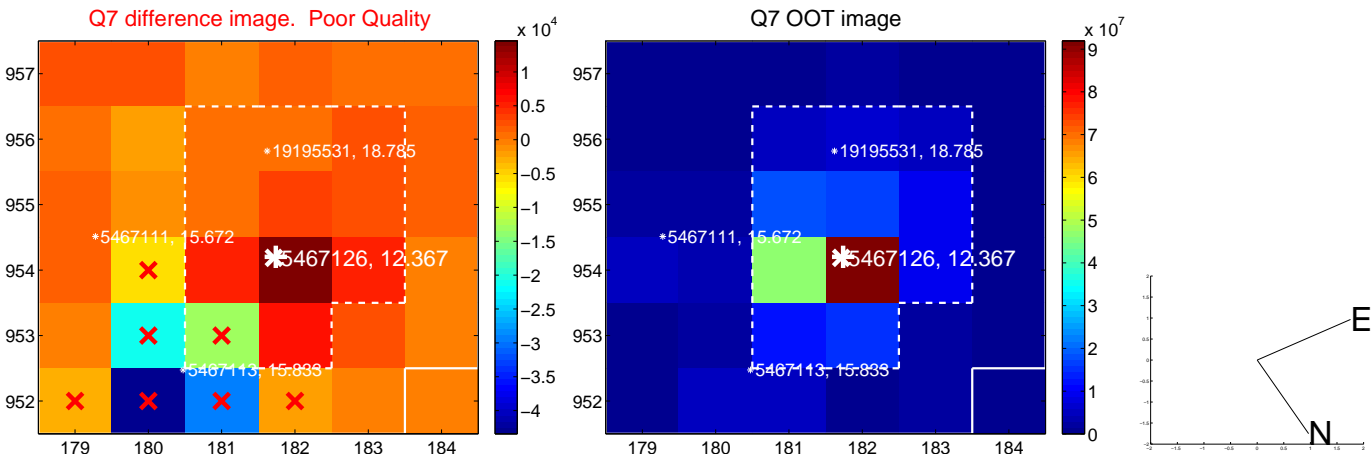
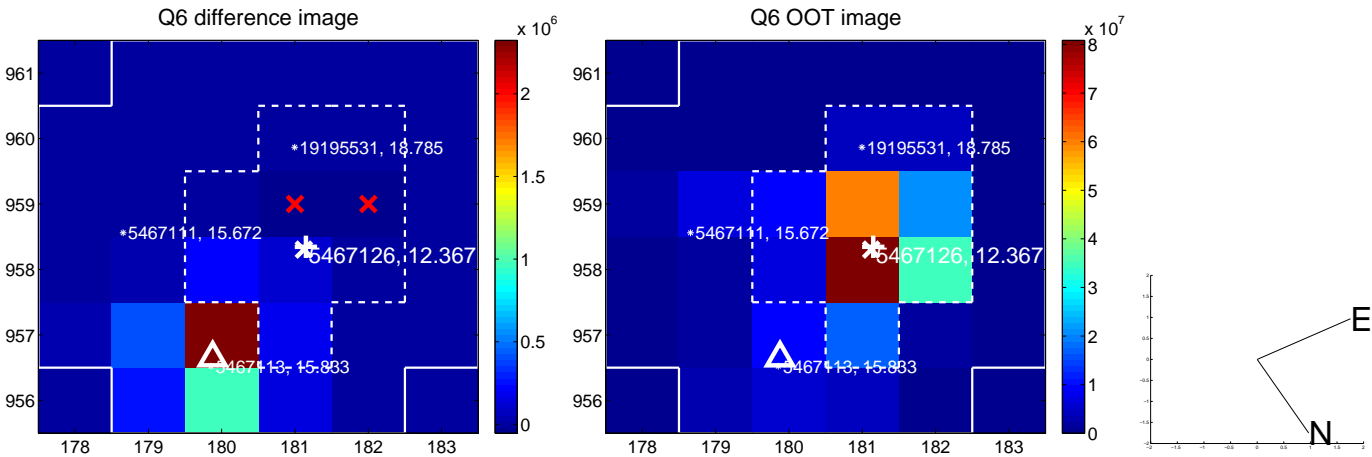
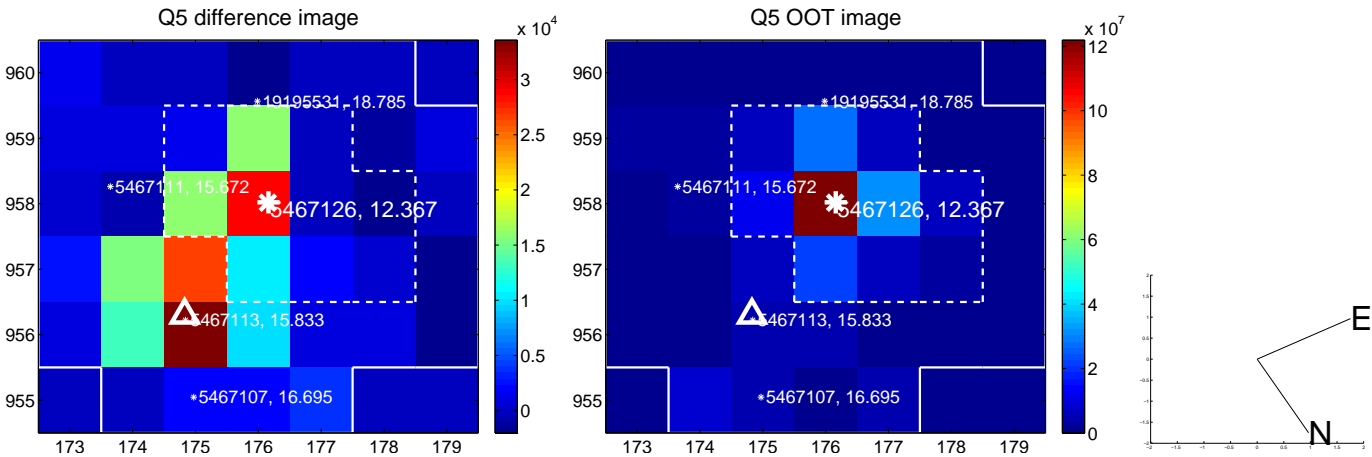


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

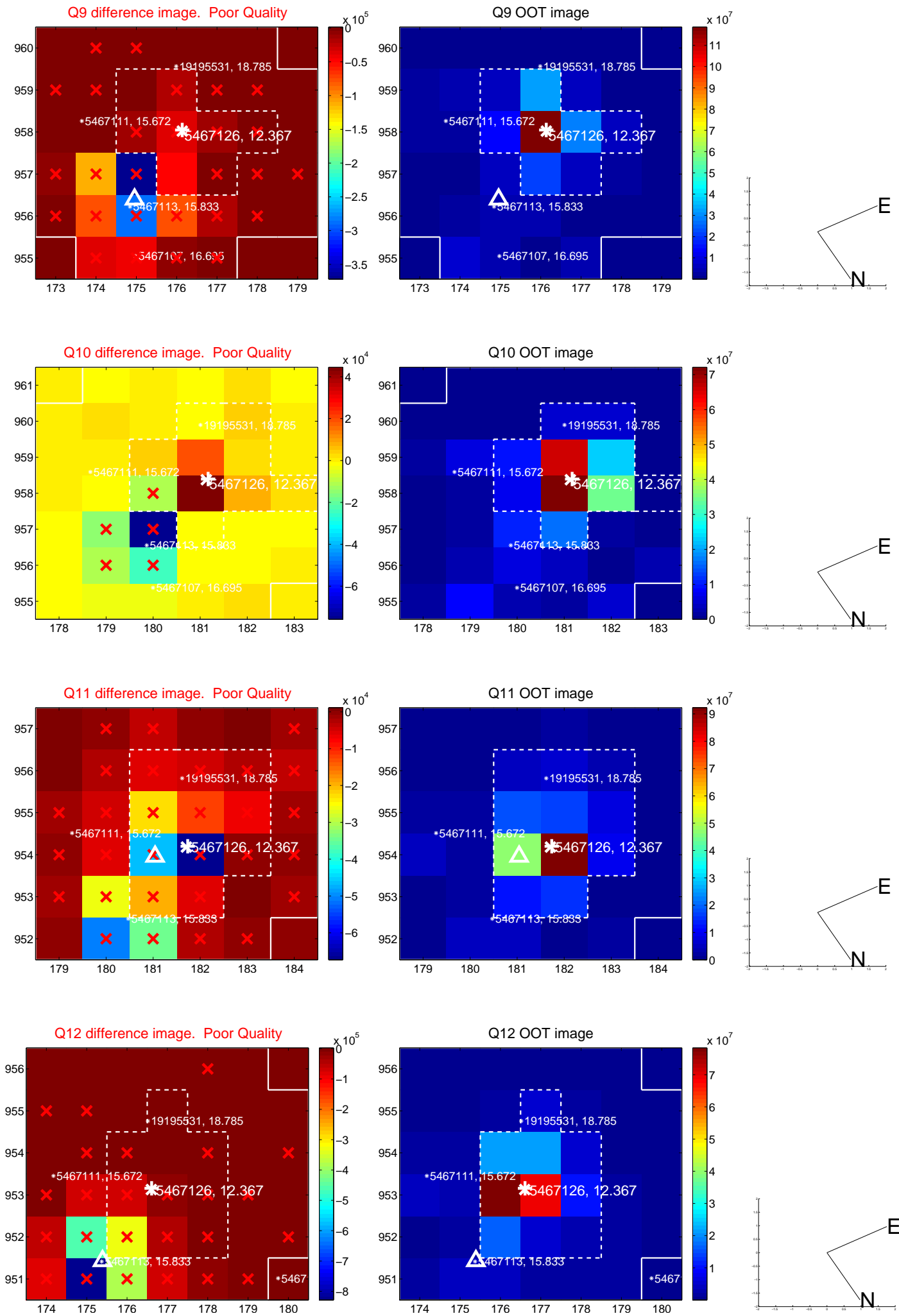
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



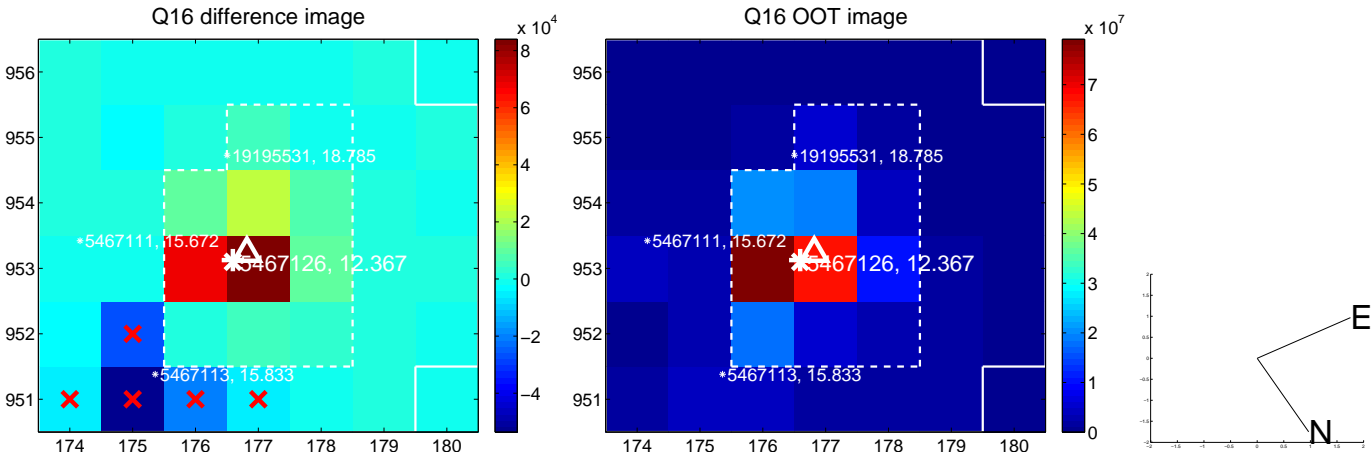
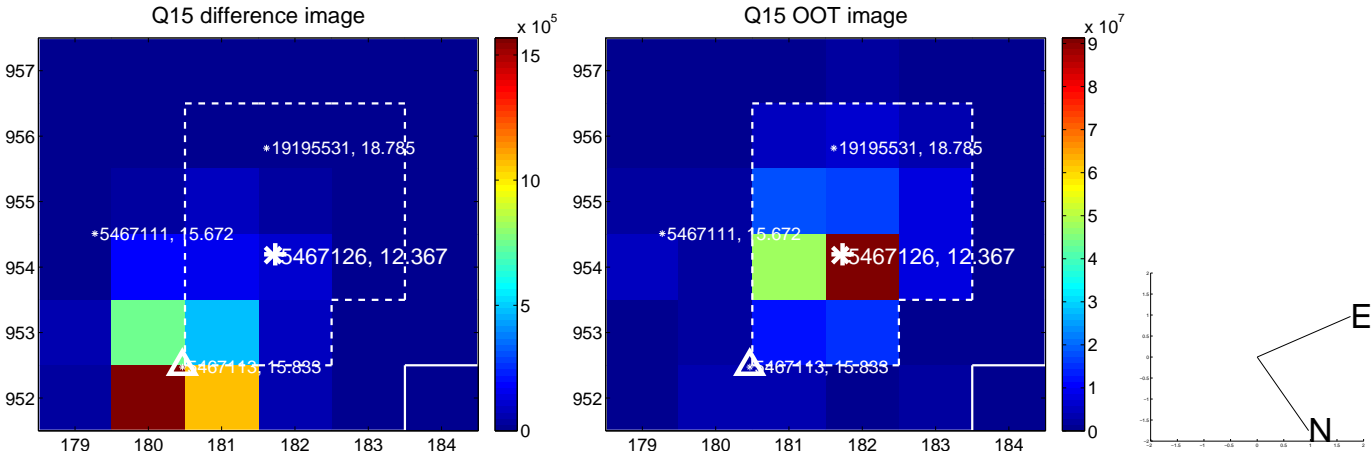
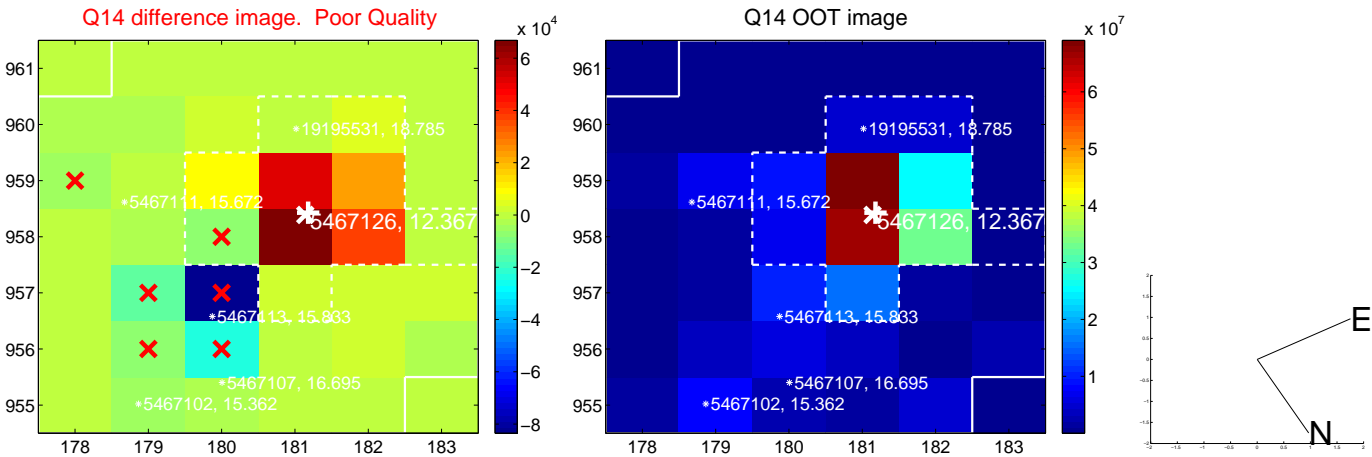
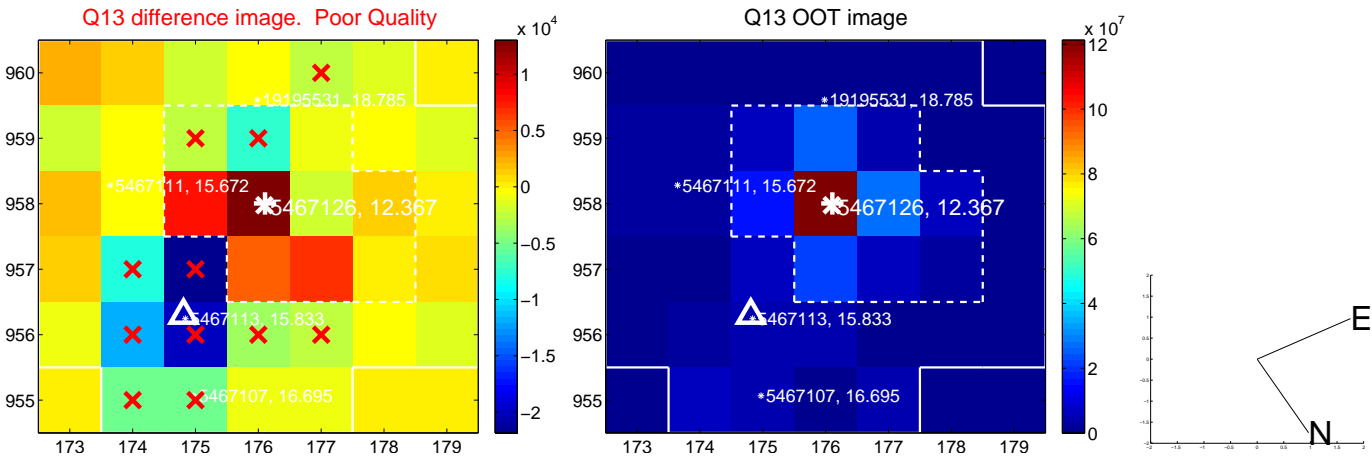
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



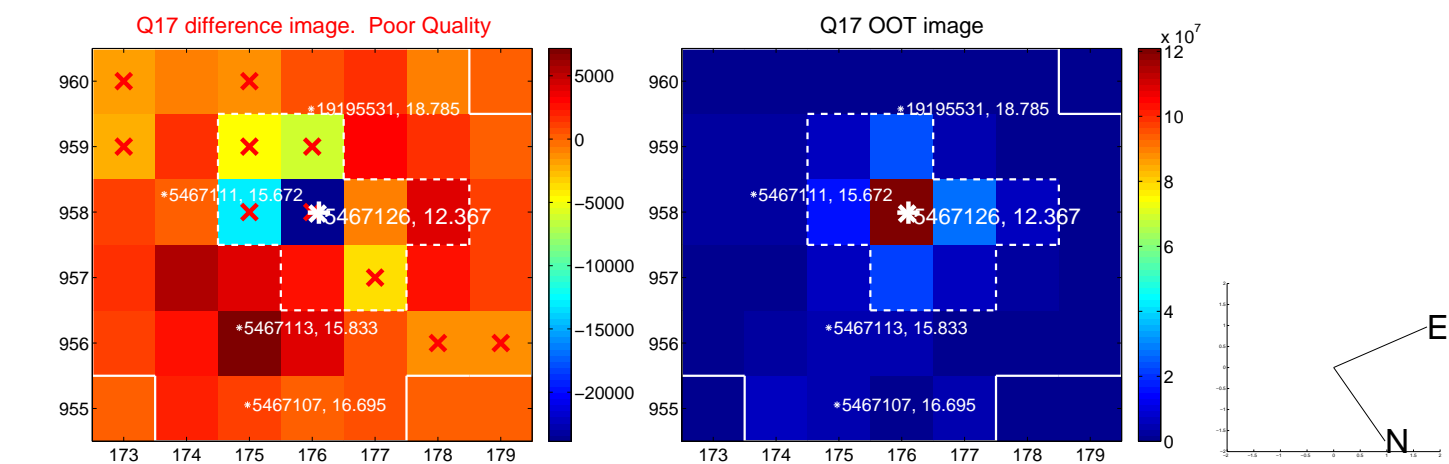
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



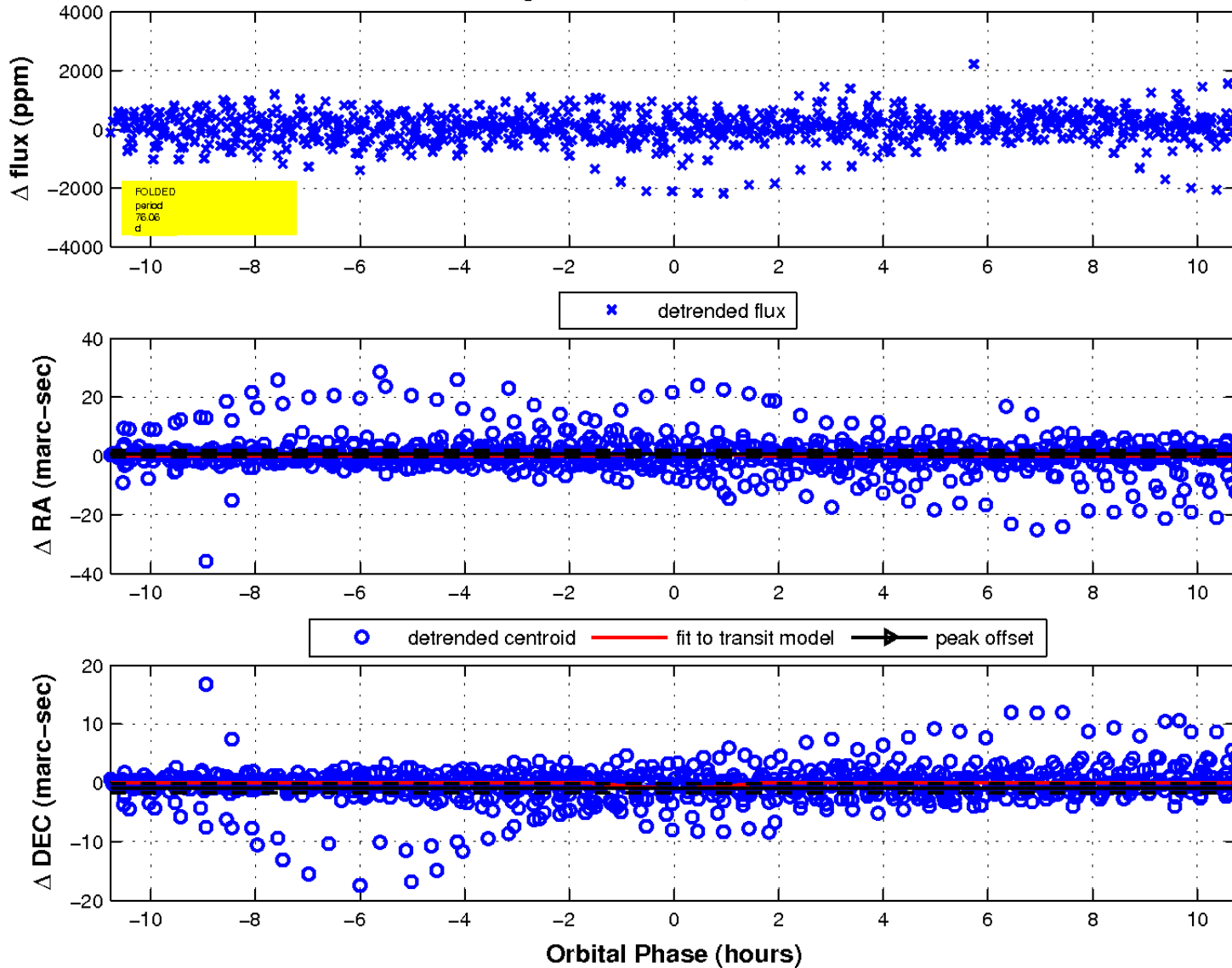
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

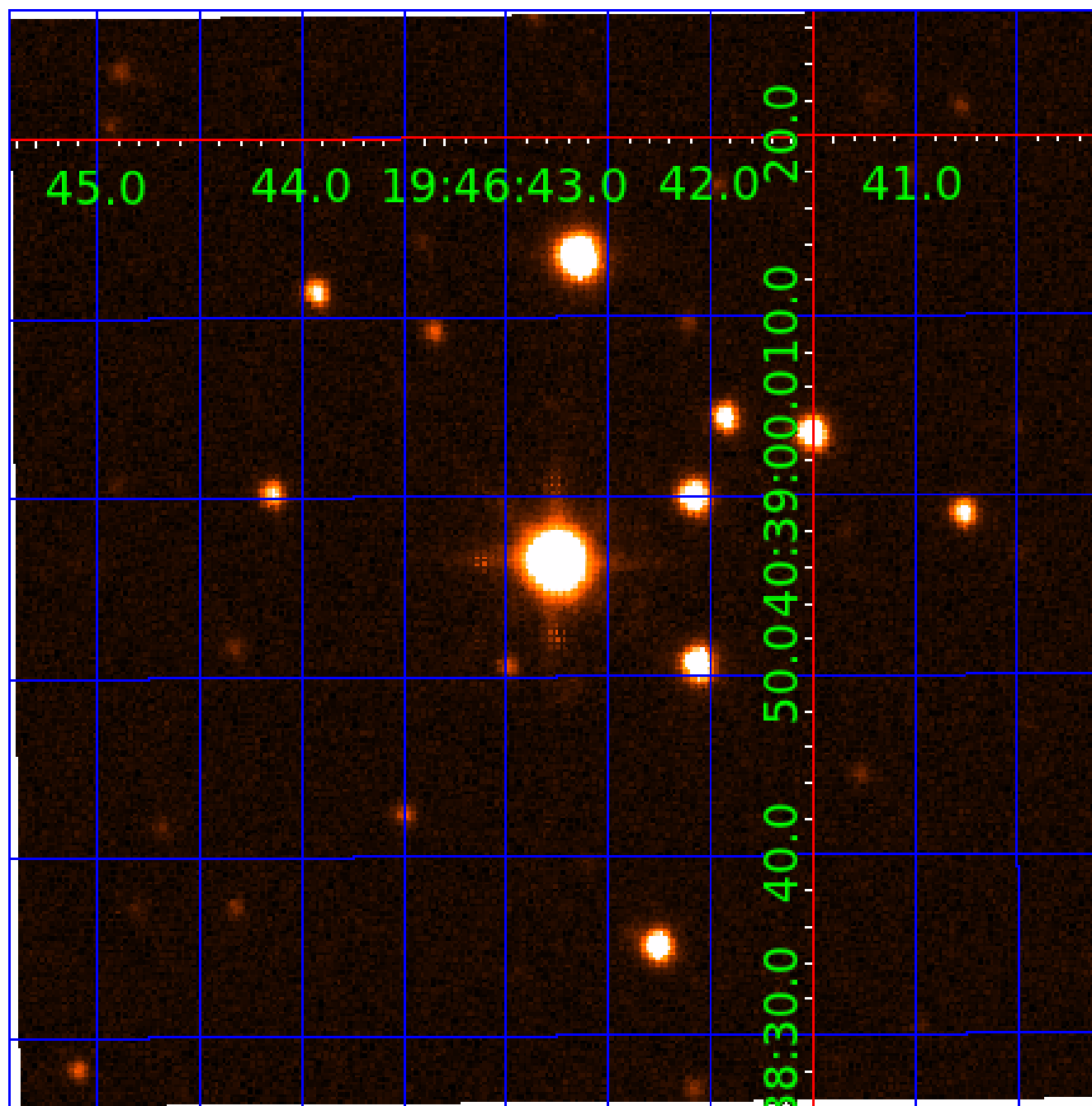


fluxWeightedCentroids, Planet 5 of 8



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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.

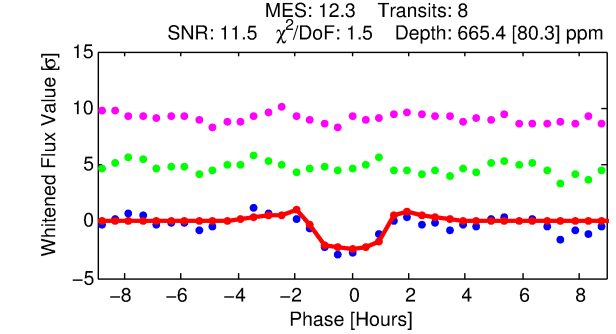
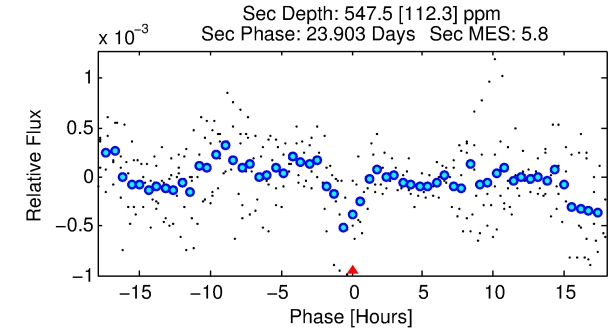
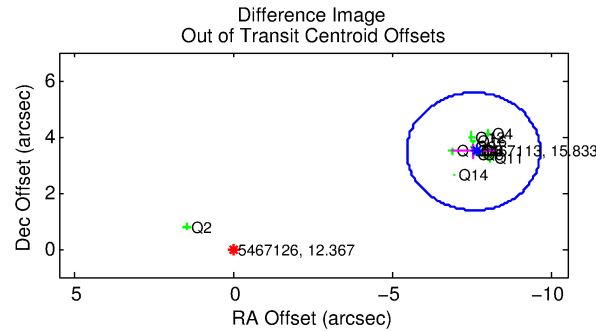
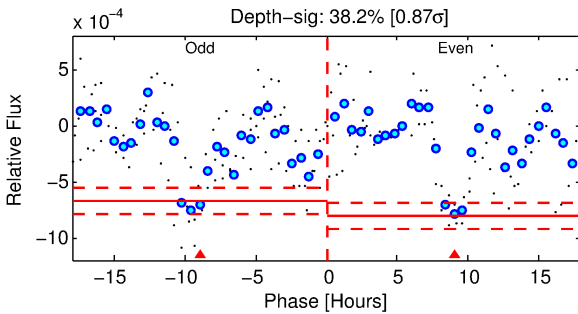
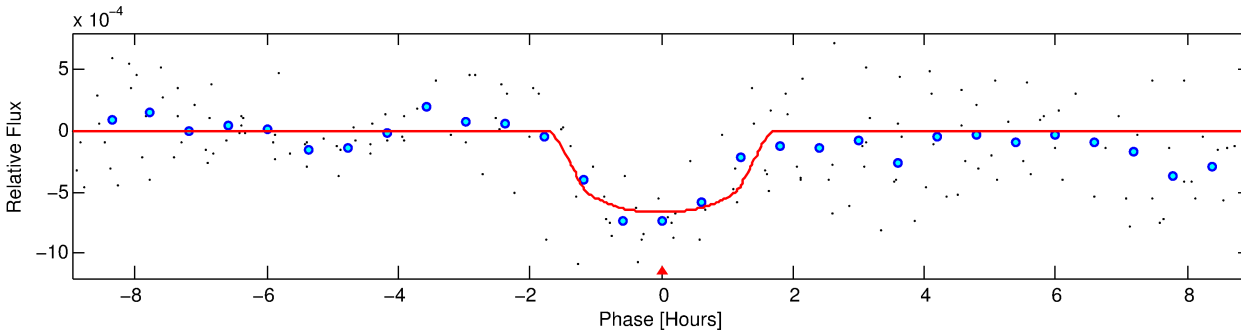
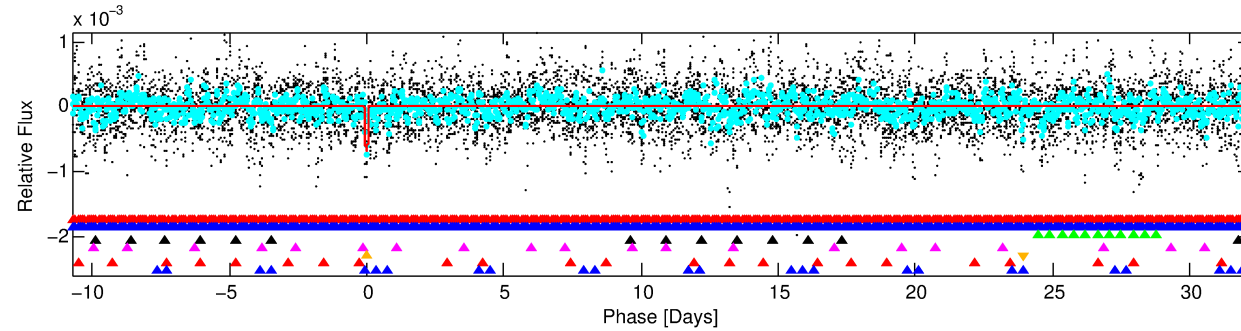
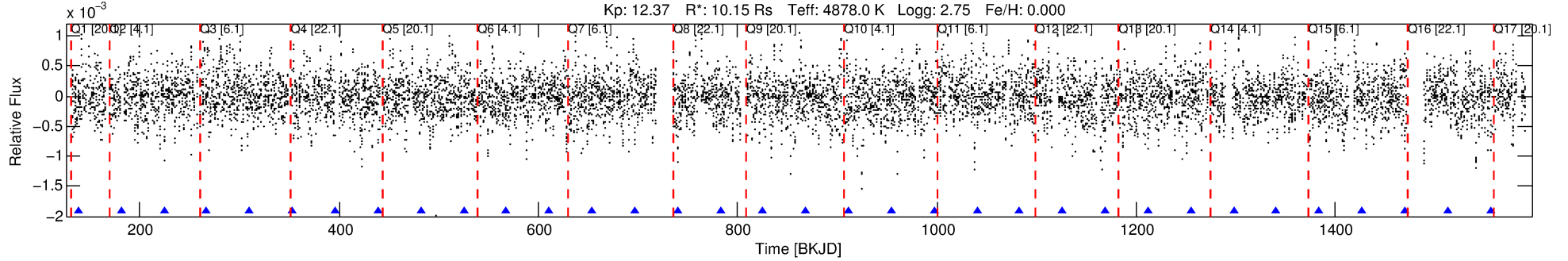
Ephemeris Match Information For 005467126-06

No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 6 of 8 Period: 42.937 d
KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



DV Fit Results:

Period = 42.93711 [0.00026] d
Epoch = 138.6071 [0.0054] BKJD
Rp/R* = 0.0239 [0.0328]
a/R* = 97.81 [446.72]
b = 0.51 [6.88]
Seff = 555.28 [219.59]
Teq = 1238 [122] K
Rp = 26.43 [37.66] Re
a = 0.3069 [0.0886] AU
Ag = 40.60 [113.13] [0.35σ]
Teffp = 4831 [3334] K [1.08σ]

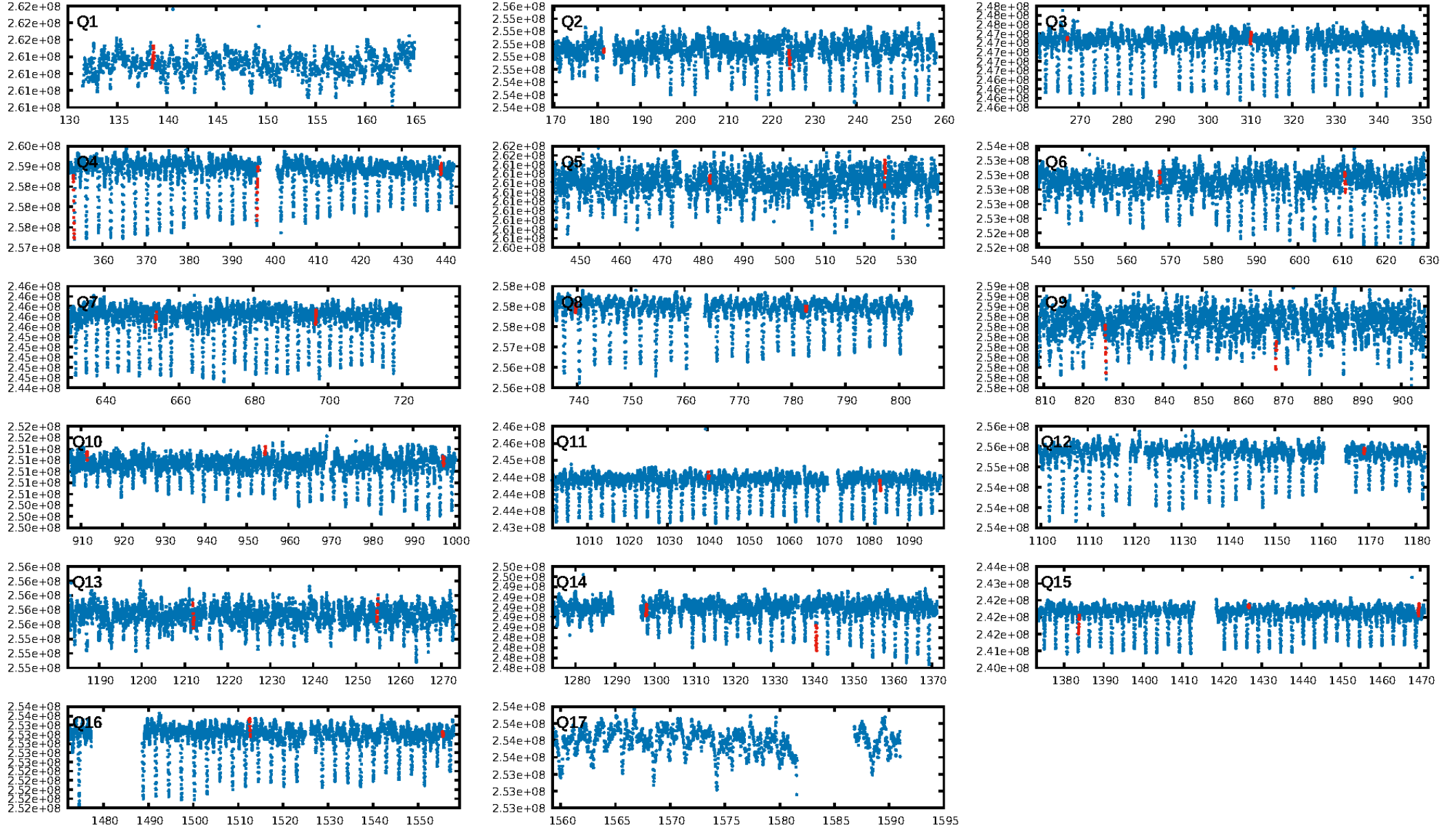
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [110.51σ]
LongPeriod-sig: 100.0% [88.32σ]
ModelChiSquare2-sig: 19.5%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: 4.629
Centroid-sig: 68.0%
Centroid-so: 0.340 arcsec [0.38σ]
OotOffset-rm: 8.300 arcsec [11.88σ]
KicOffset-rm: 8.263 arcsec [11.36σ]
OotOffset-st: 4/3/3/3 [13]
KicOffset-st: 4/3/3/3 [13]
DiffImageQuality-fgm: 0.46 [6/13]
DiffImageOverlap-fno: 0.38 [6/16]

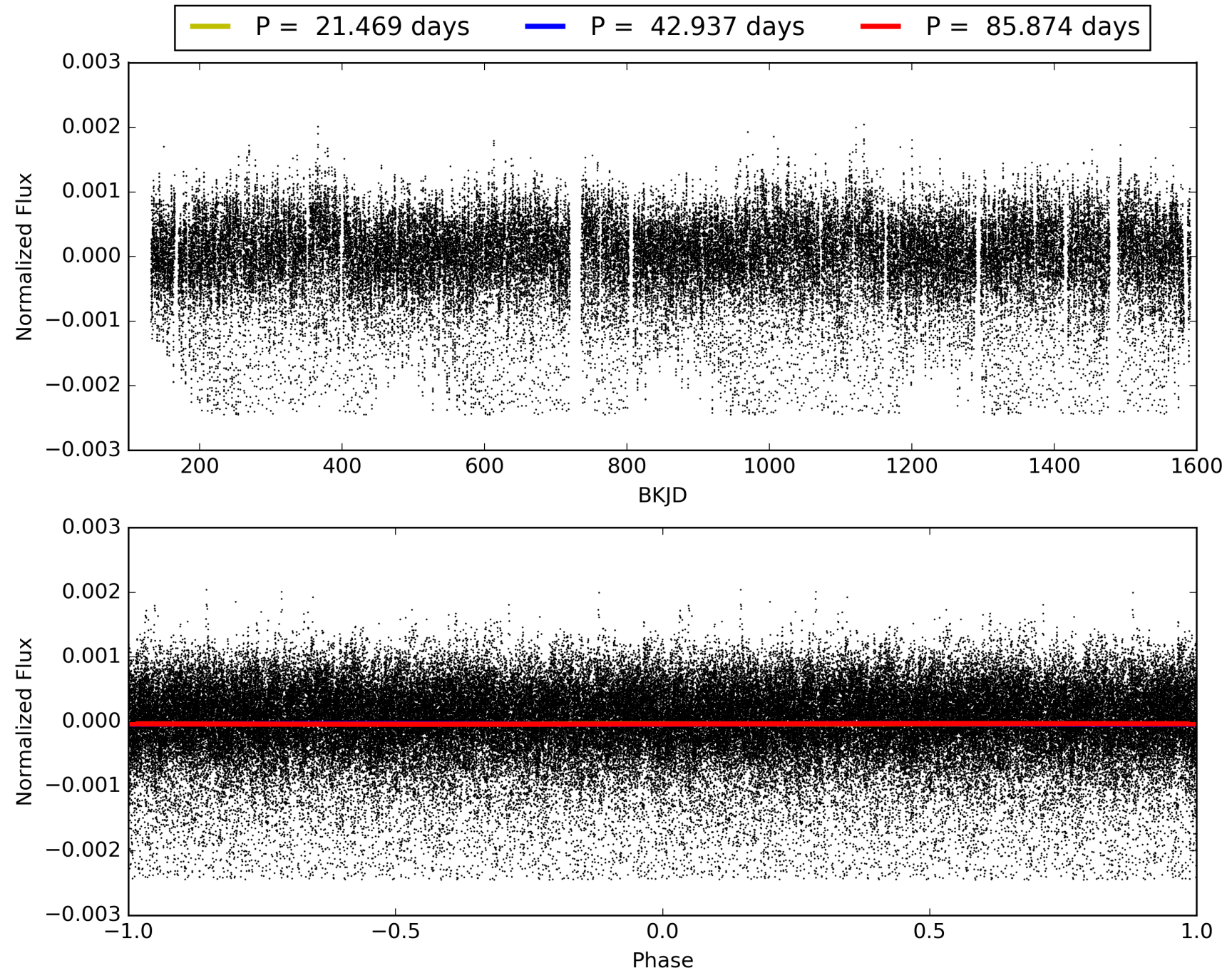
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:39:59 Z

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

TCE 005467126-06, PDC Light Curves

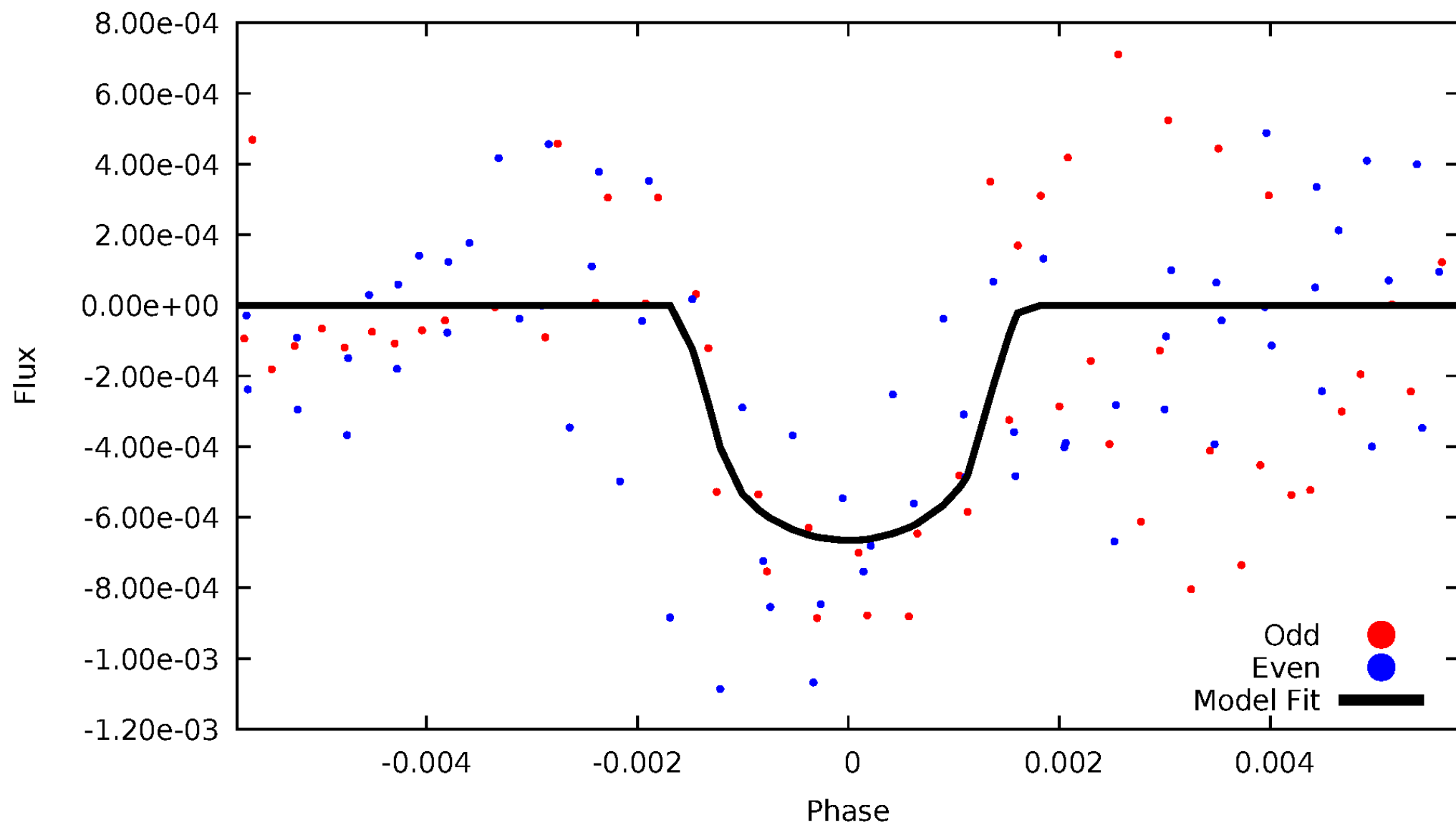


TCE 005467126-06



DV Odd/Even

TCE 005467126-06

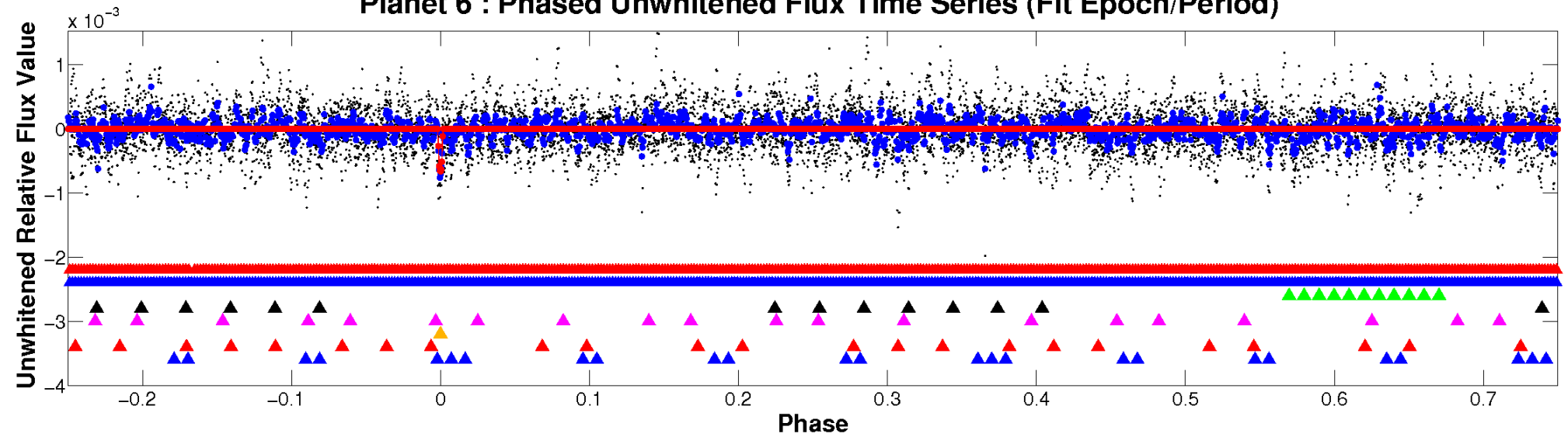


ALT Odd/Even

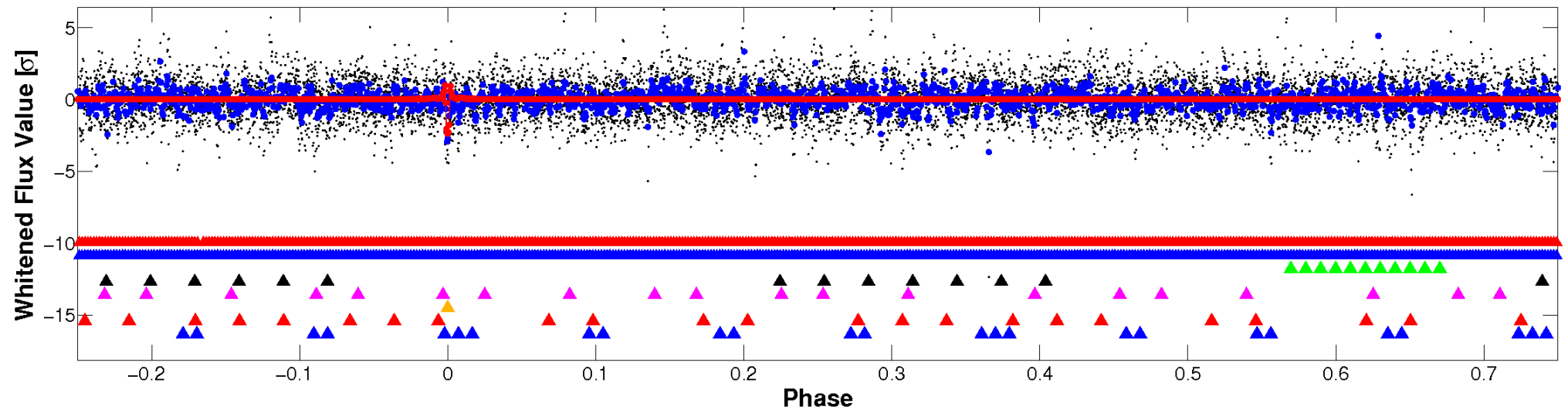
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

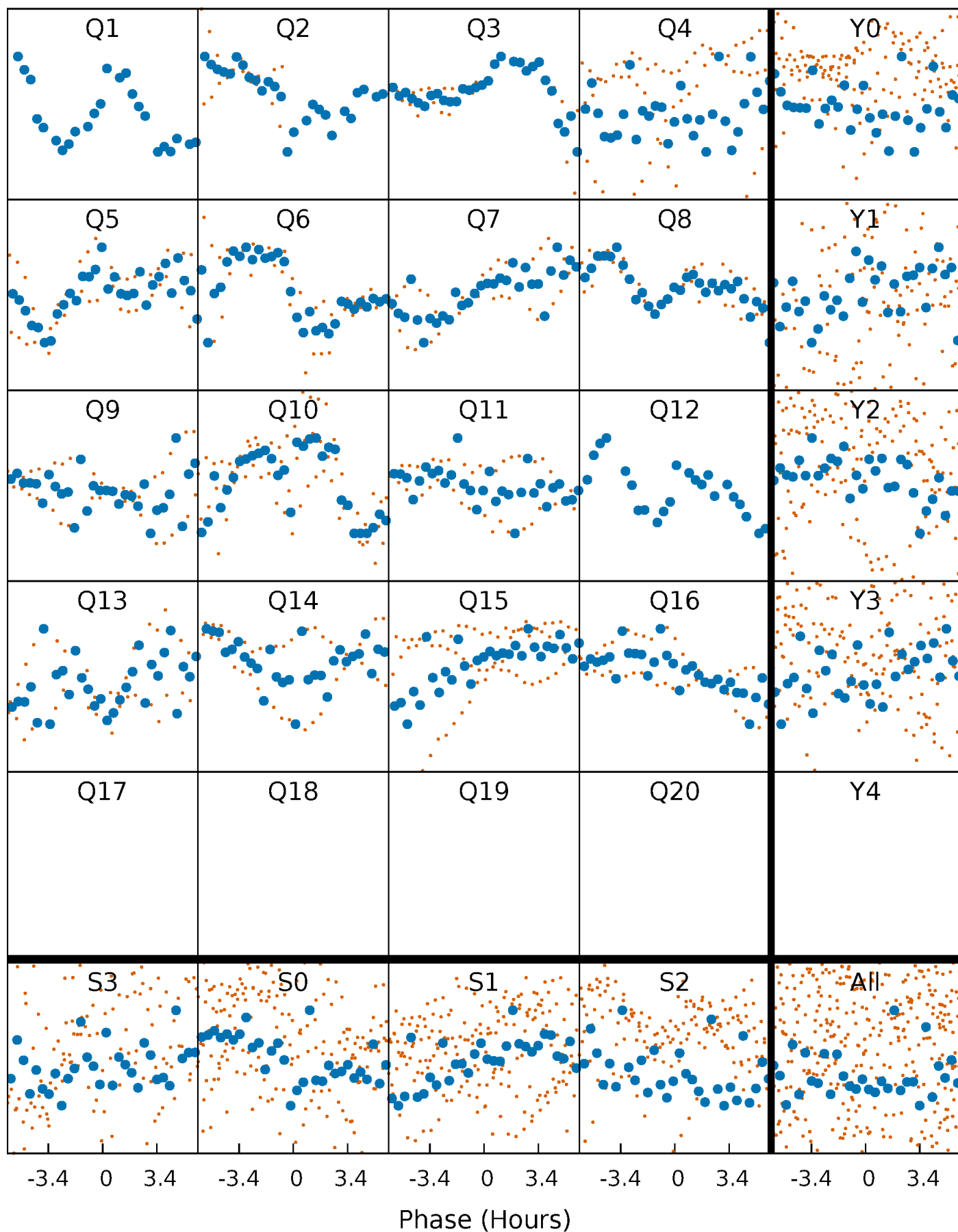


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



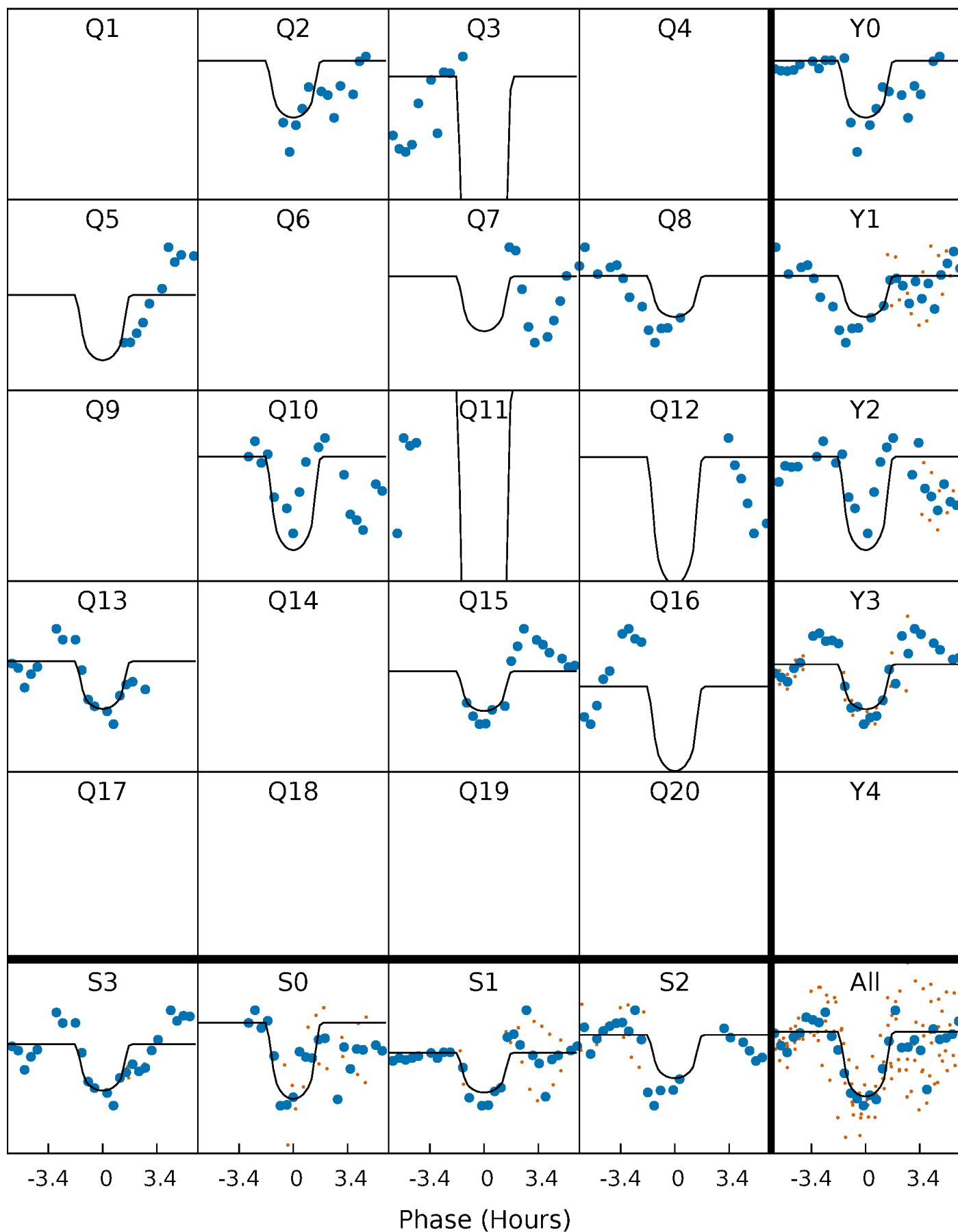
PDC Quarter-Phased Transit Curves

TCE 005467126-06 P= 42.937114 Days $T_0=138.607145$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005467126-06 P= 42.937114 Days $T_0=138.607145$ (BKJD)

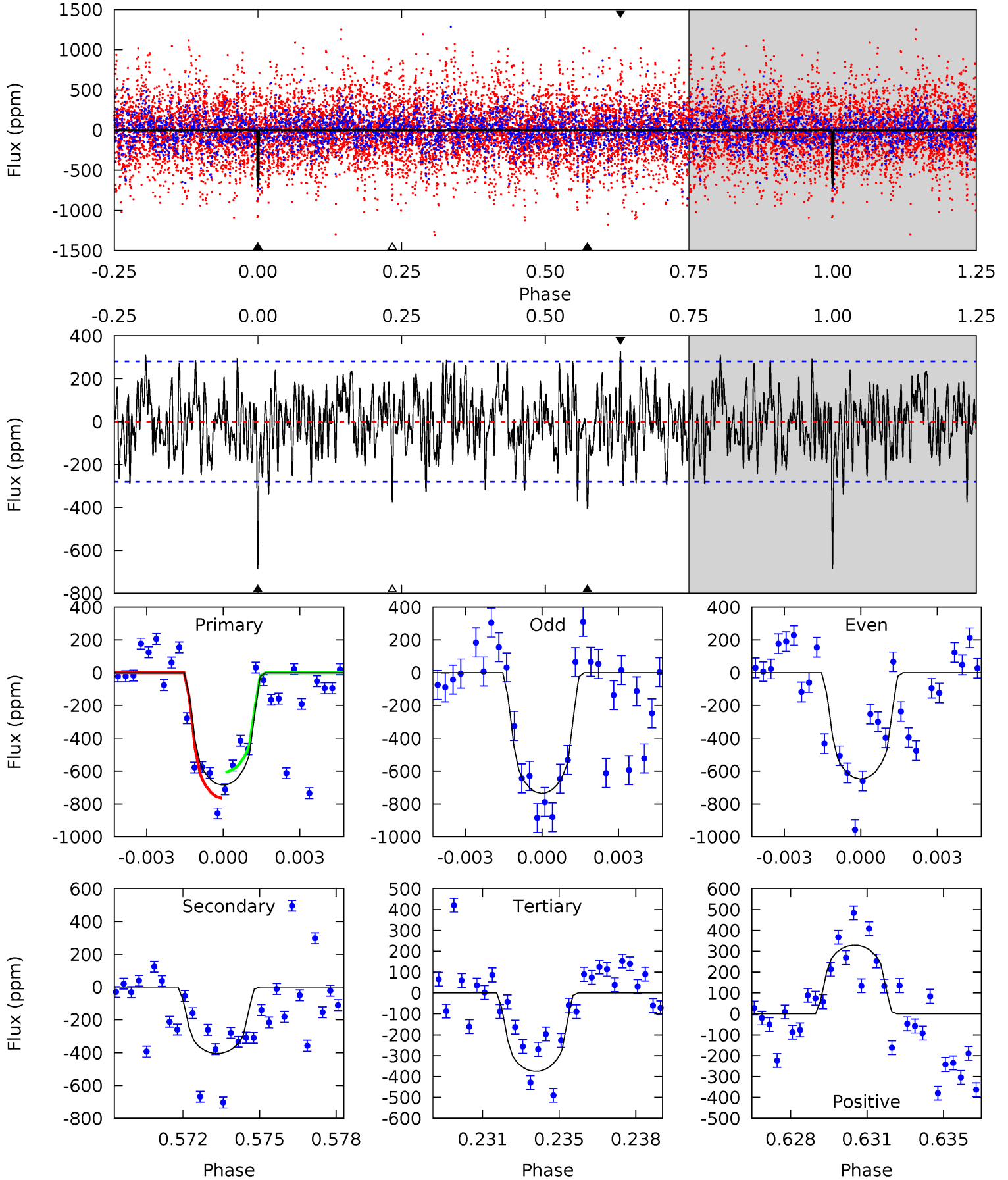


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005467126-06, P = 42.937114 Days, E = 95.670031 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.8	7.55	6.99	6.14	5.23	2.94	2.20	5.78	6.63	0.56	1.41	0.82	0.96	0.32	1.46



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-405 ± 54	$36.64^{+32.84}_{-23.93}$	1706^{+91}_{-115}	3952^{+2376}_{-709}	16^{+124}_{-11}
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

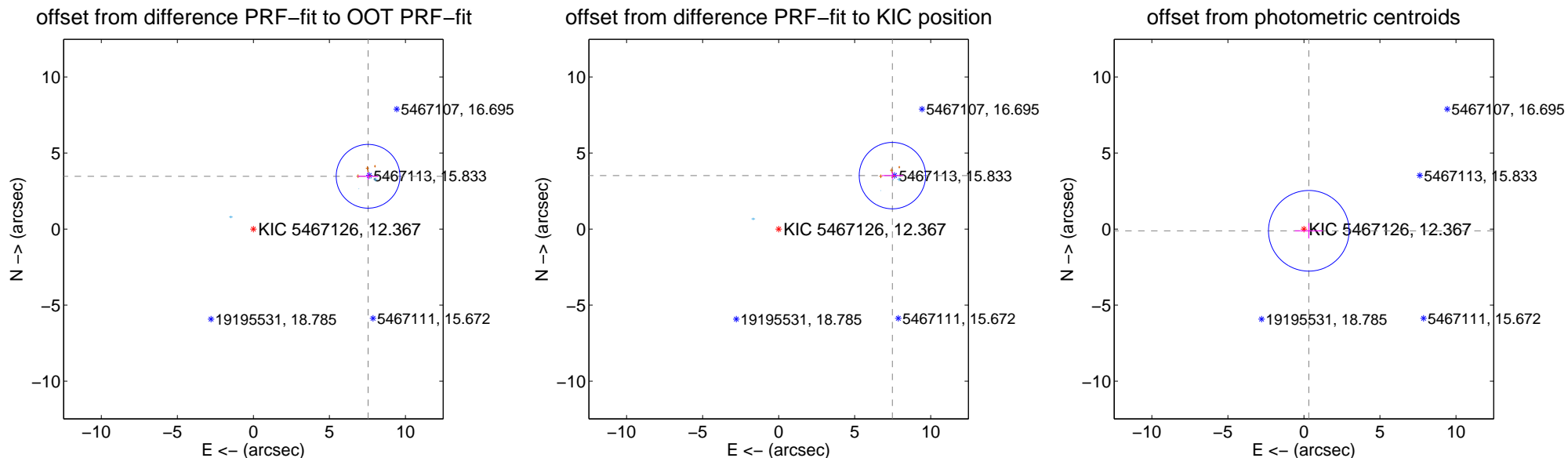
DV Centroid Data

Supplemental centroid analysis for 005467126-06. Kepler magnitude: 12.37. Transit SNR 11.47

There are 6 quarters with good PRF difference image offsets

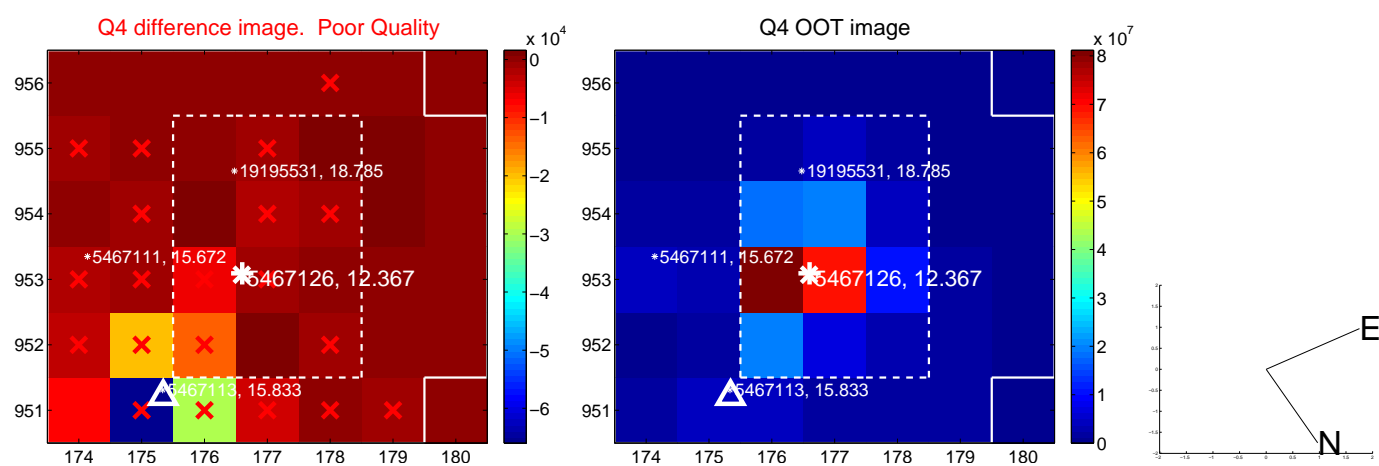
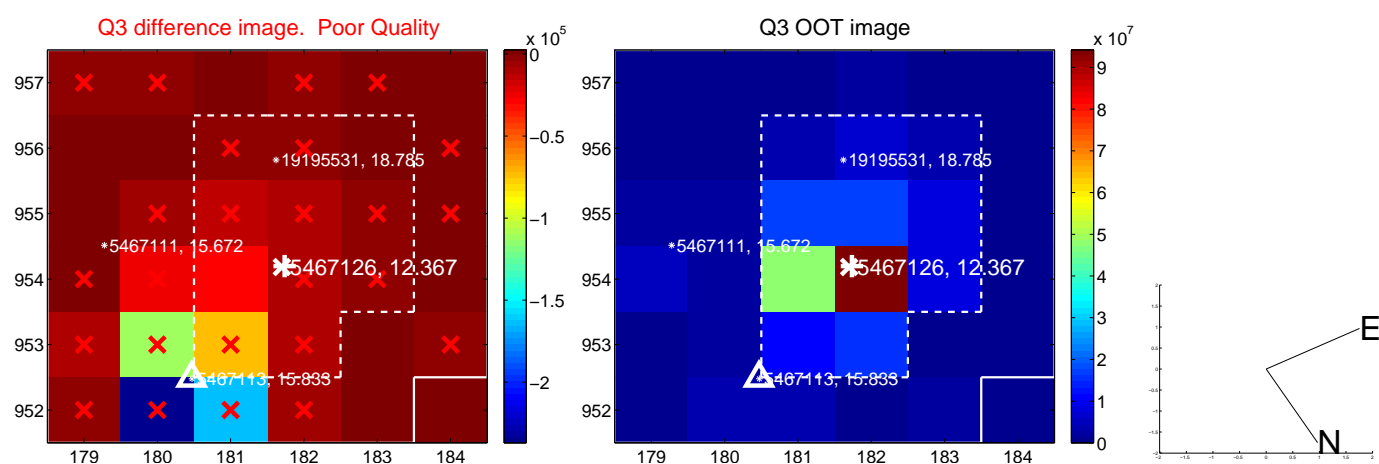
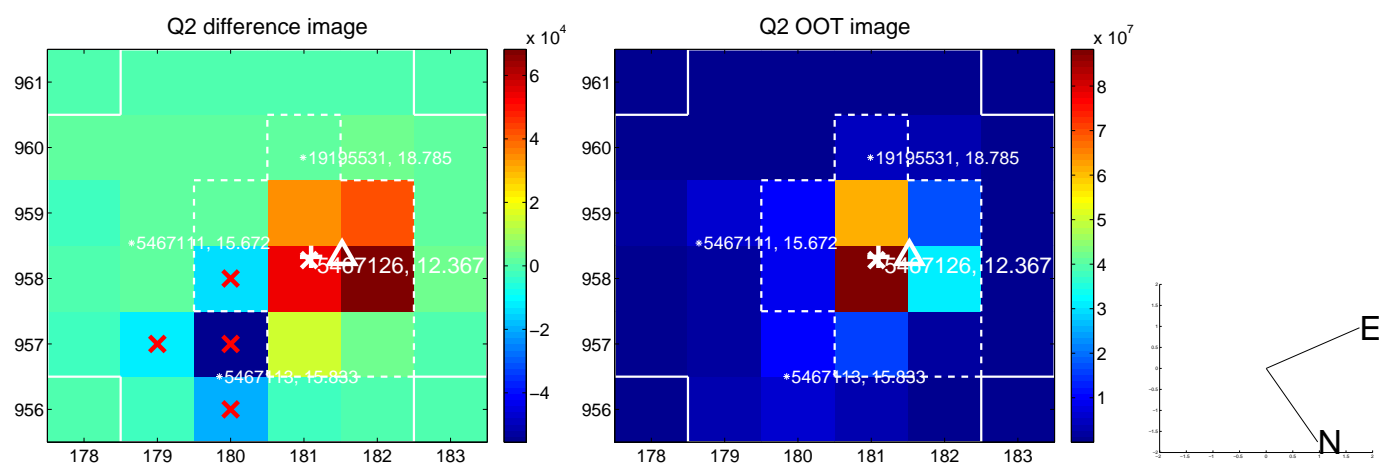
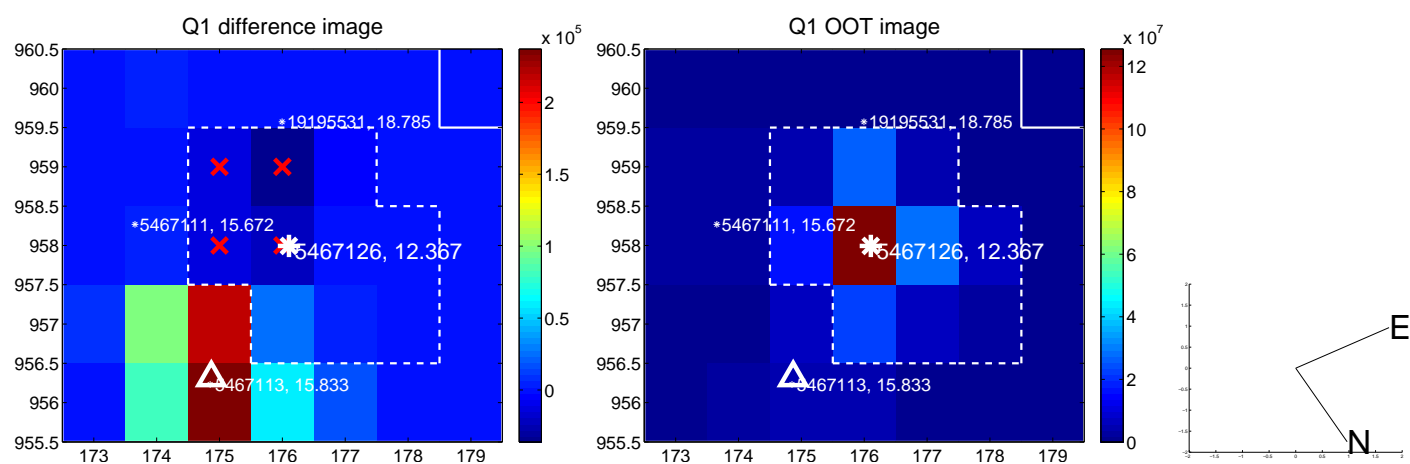
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.300 ± 0.698	11.88	-7.540 ± 0.676	3.470 ± 0.228
PRF-fit source offset from KIC position	8.263 ± 0.727	11.36	-7.478 ± 0.700	3.514 ± 0.247
photometric centroid source offset	0.34 ± 0.88	0.38	-0.32 ± 0.92	-0.11 ± 0.50

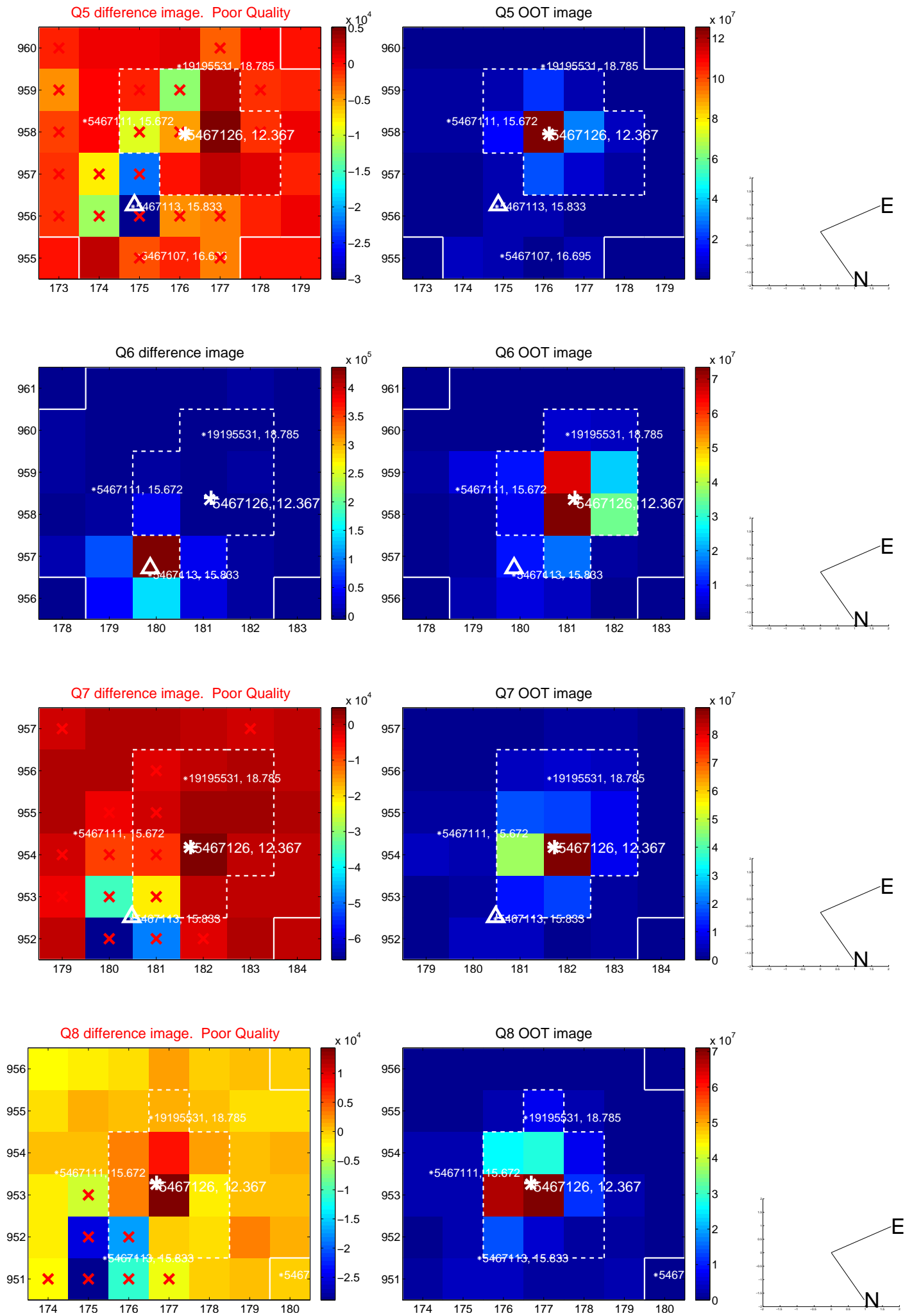


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

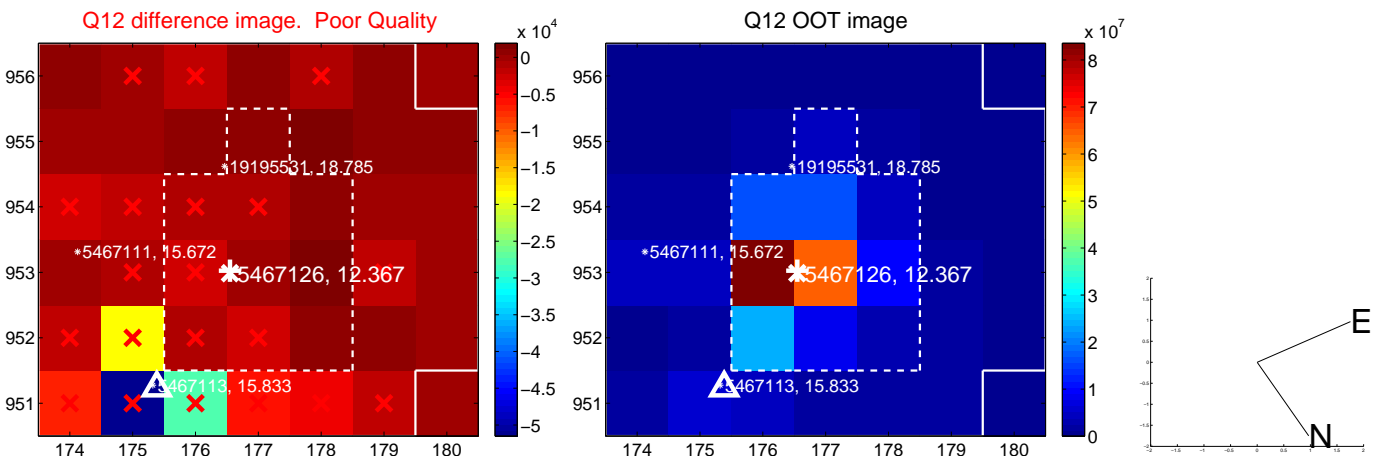
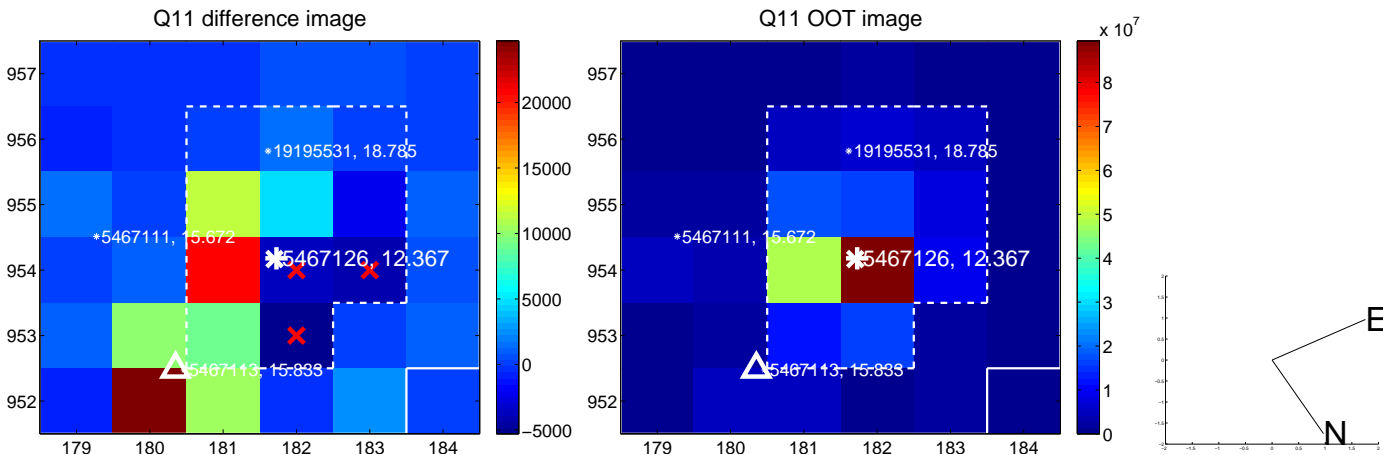
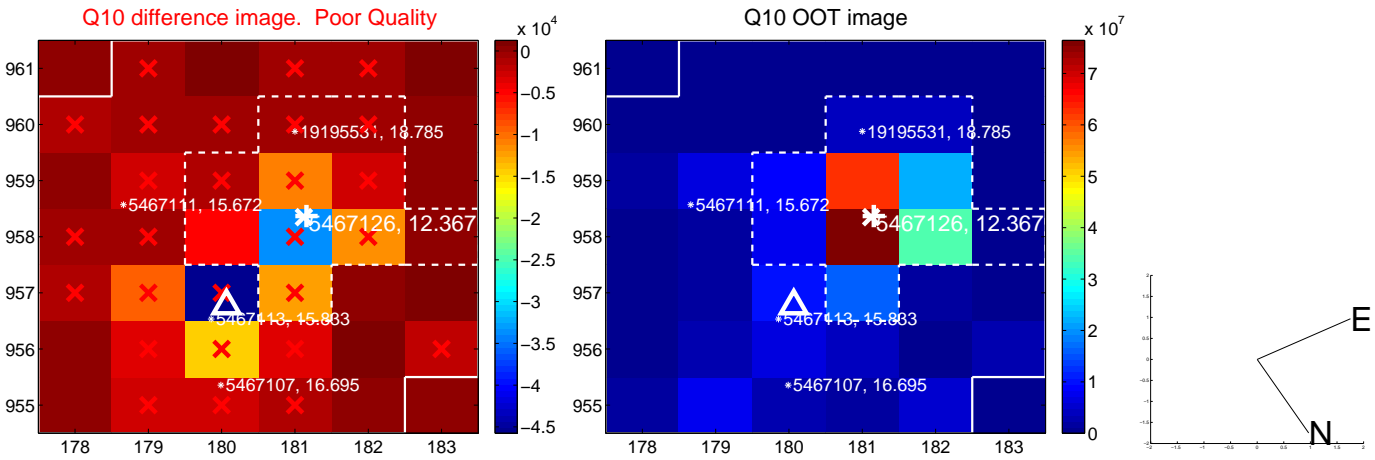
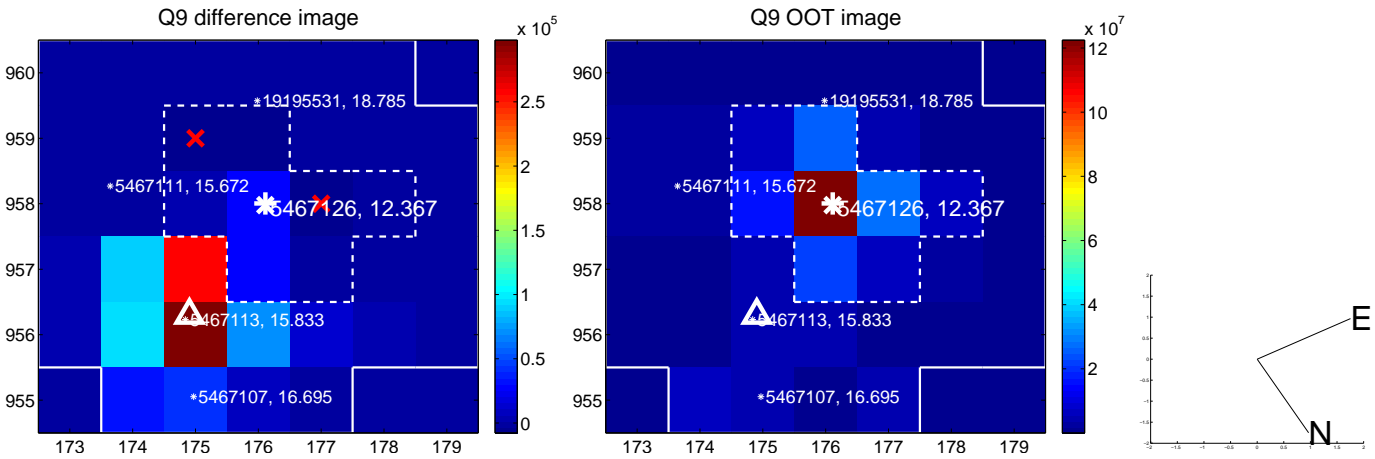
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



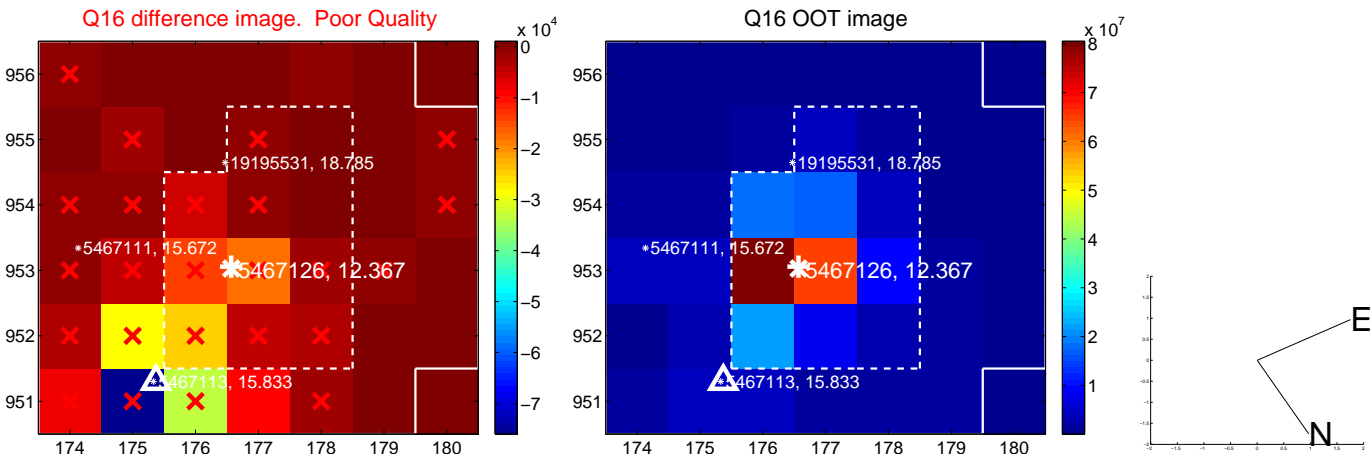
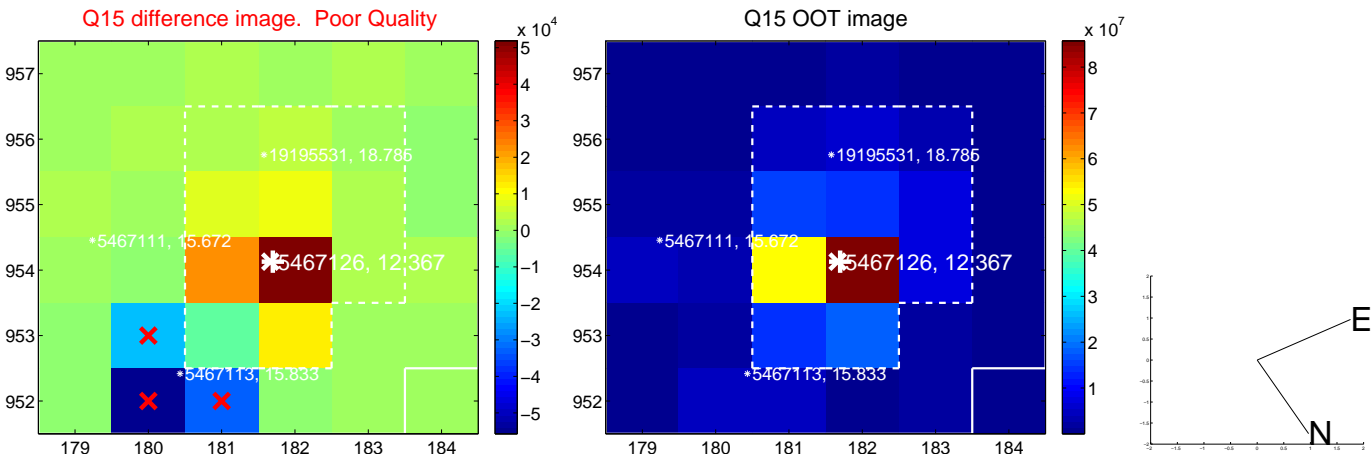
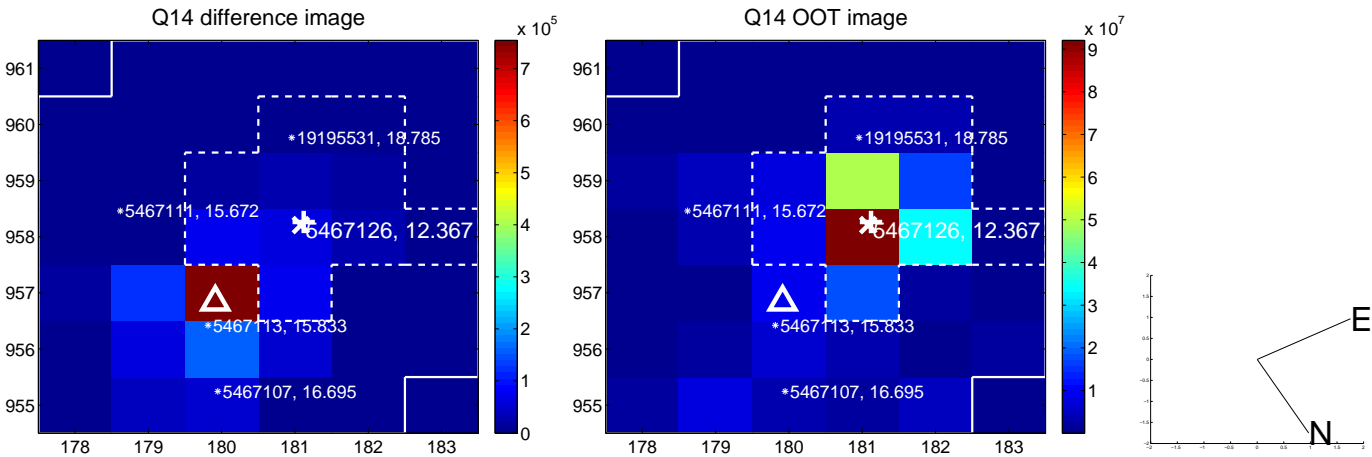
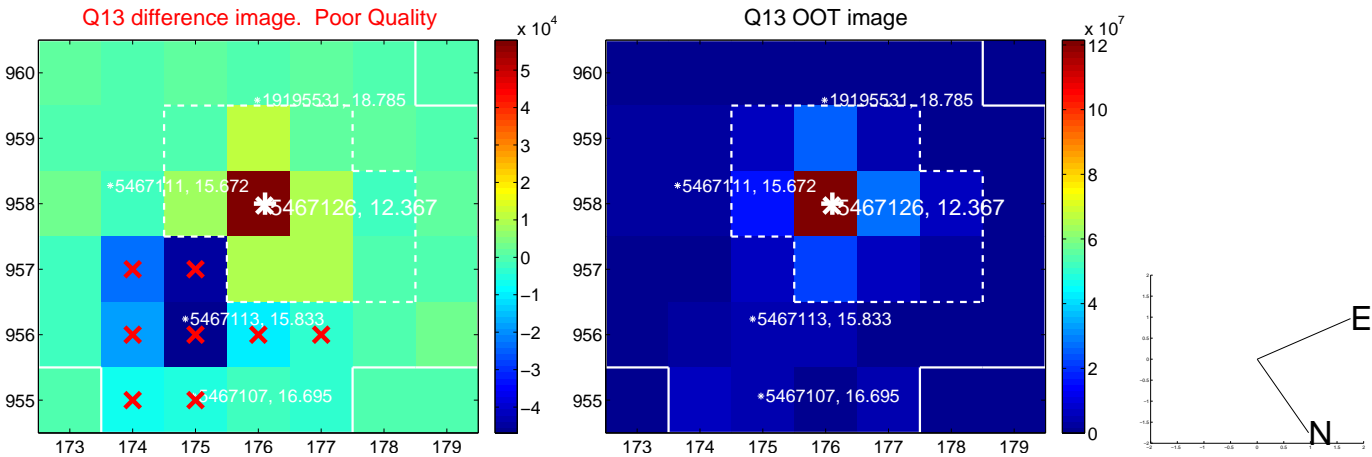
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



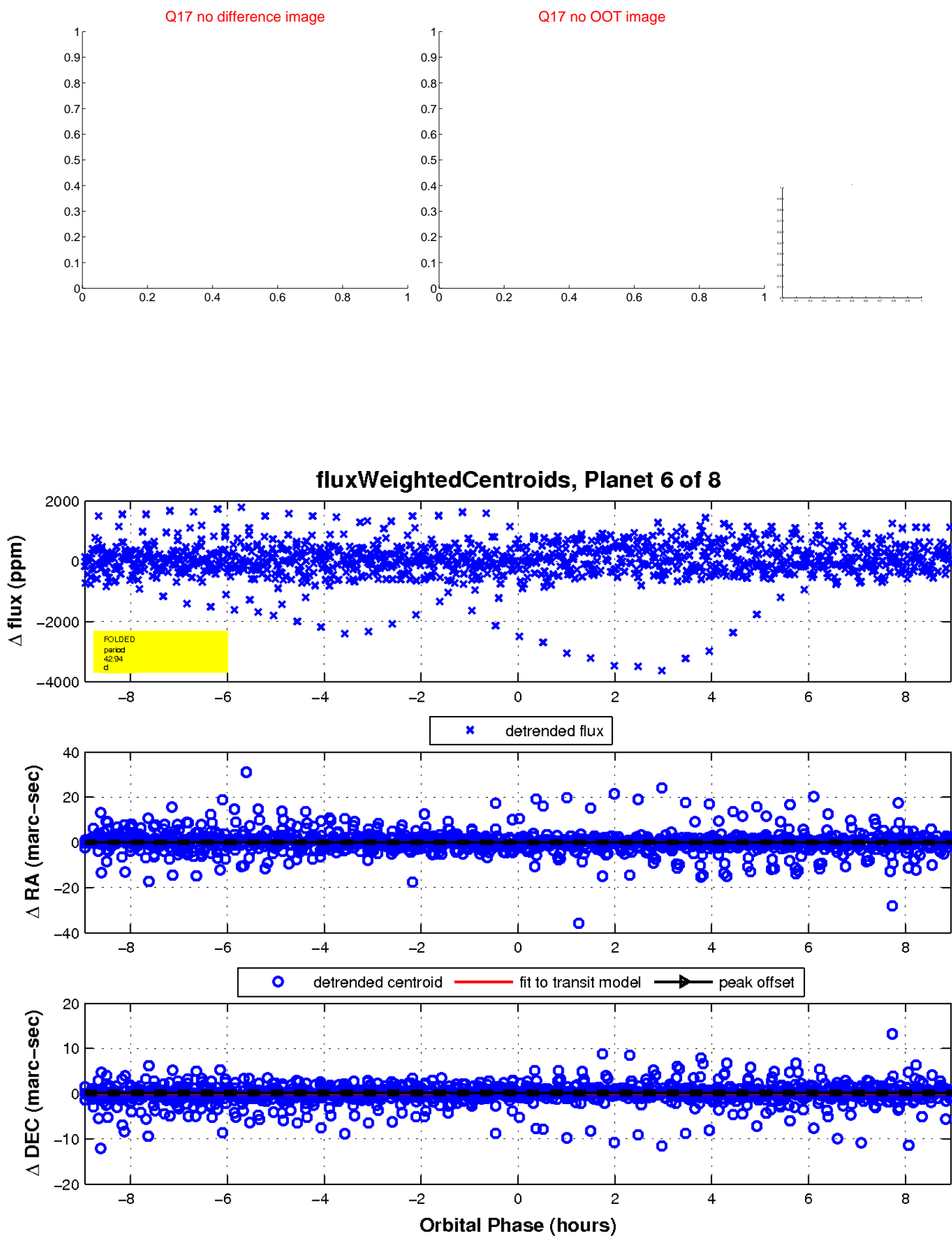
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

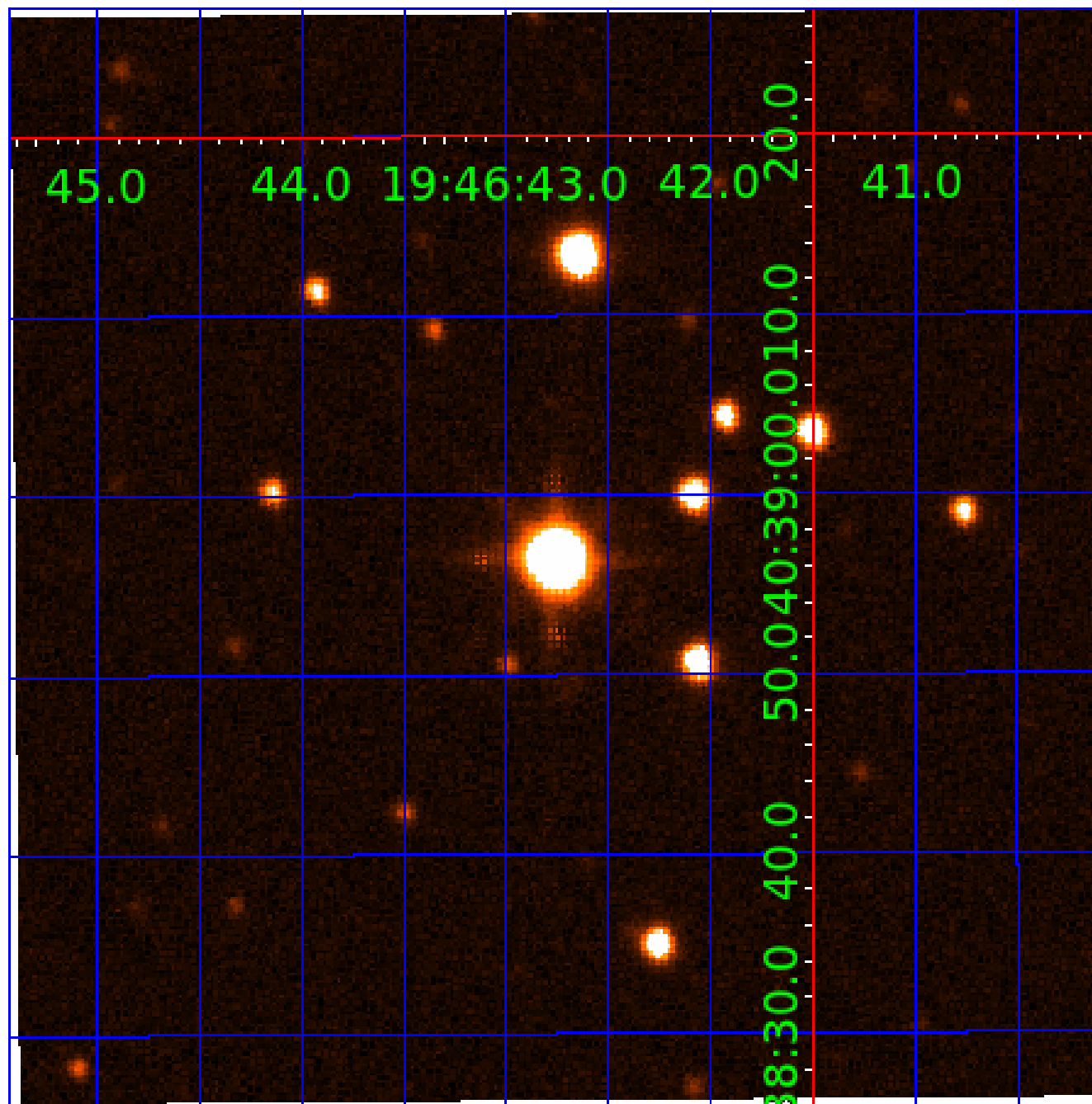


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005467126-07

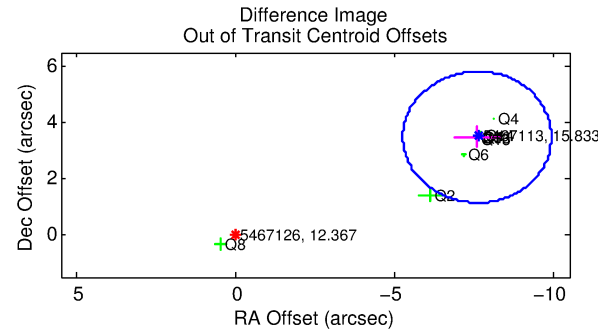
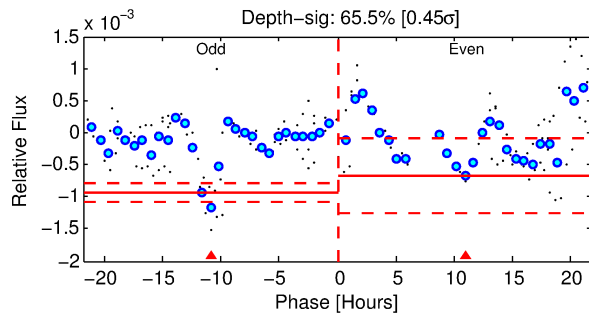
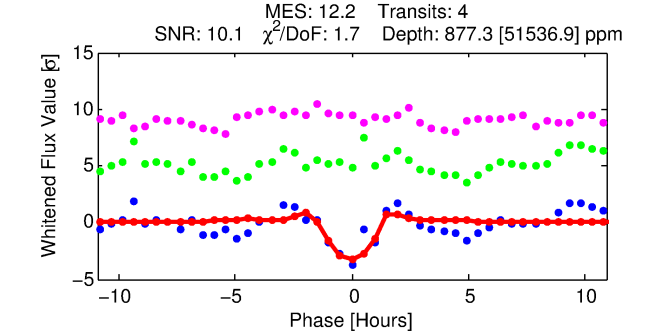
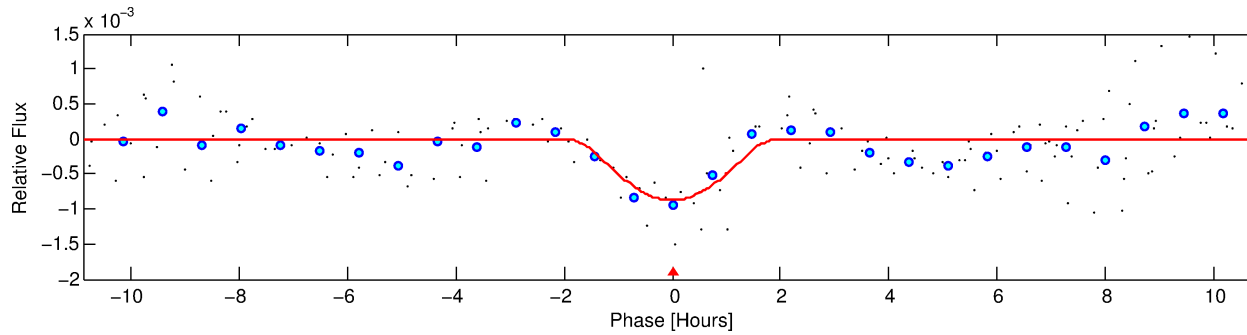
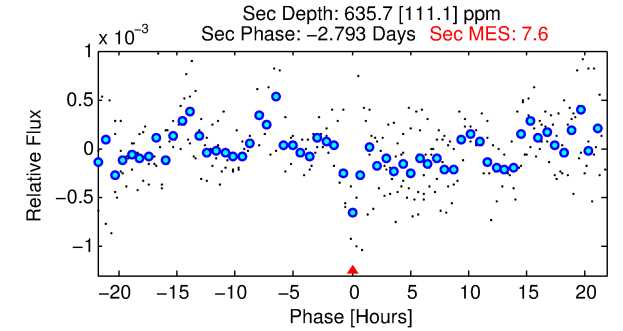
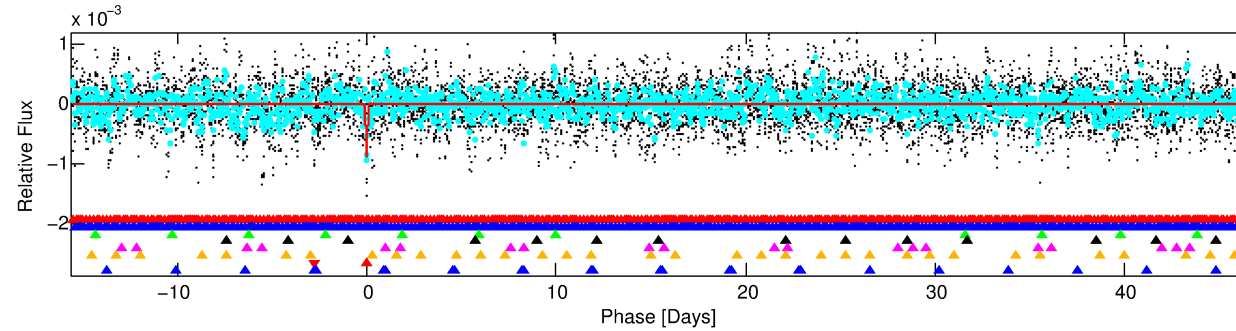
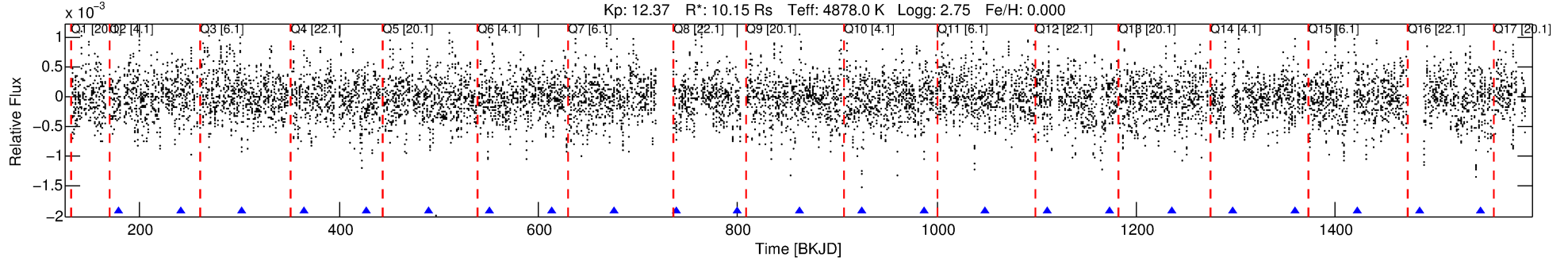
No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 7 of 8 Period: 62.163 d

KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



DV Fit Results:

Period = 62.16267 [0.00088] d
Epoch = 178.7111 [0.0097] BKJD
Rp/R* = 0.0560 [0.2323]
a/R* = 44.42 [42.94]
b = 1.00 [2.48]
Seff = 339.04 [134.08]
Teq = 1094 [108] K
Rp = 62.02 [258.47] Re
a = 0.3928 [0.1133] AU
Ag = 14.02 [116.58] [0.11σ]
Teffp = 3274 [6796] K [0.32σ]

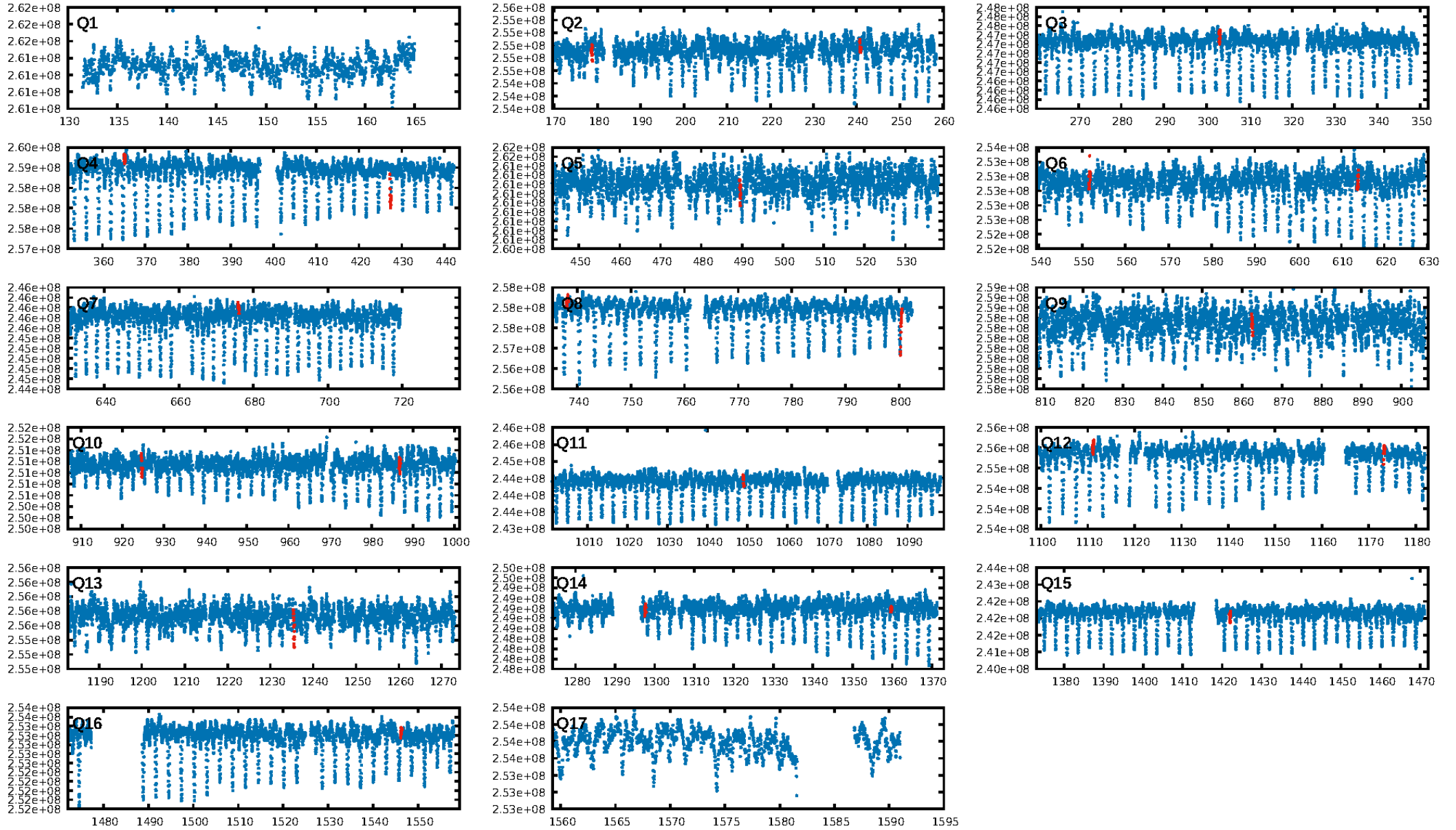
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [18.60σ]
LongPeriod-sig: 100.0% [65.34σ]
ModelChiSquare2-sig: 0.3%
ModelChiSquareGof-sig: 98.3%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.8426
Centroid-sig: 14.0%
Centroid-so: 0.737 arcsec [1.31σ]
OotOffset-rm: 8.354 arcsec [10.72σ]
KicOffset-rm: 8.255 arcsec [9.06σ]
OotOffset-st: 3/3/2/2 [10]
KicOffset-st: 3/3/2/2 [10]
DiffImageQuality-fgm: 0.40 [4/10]
DiffImageOverlap-fno: 0.29 [4/14]

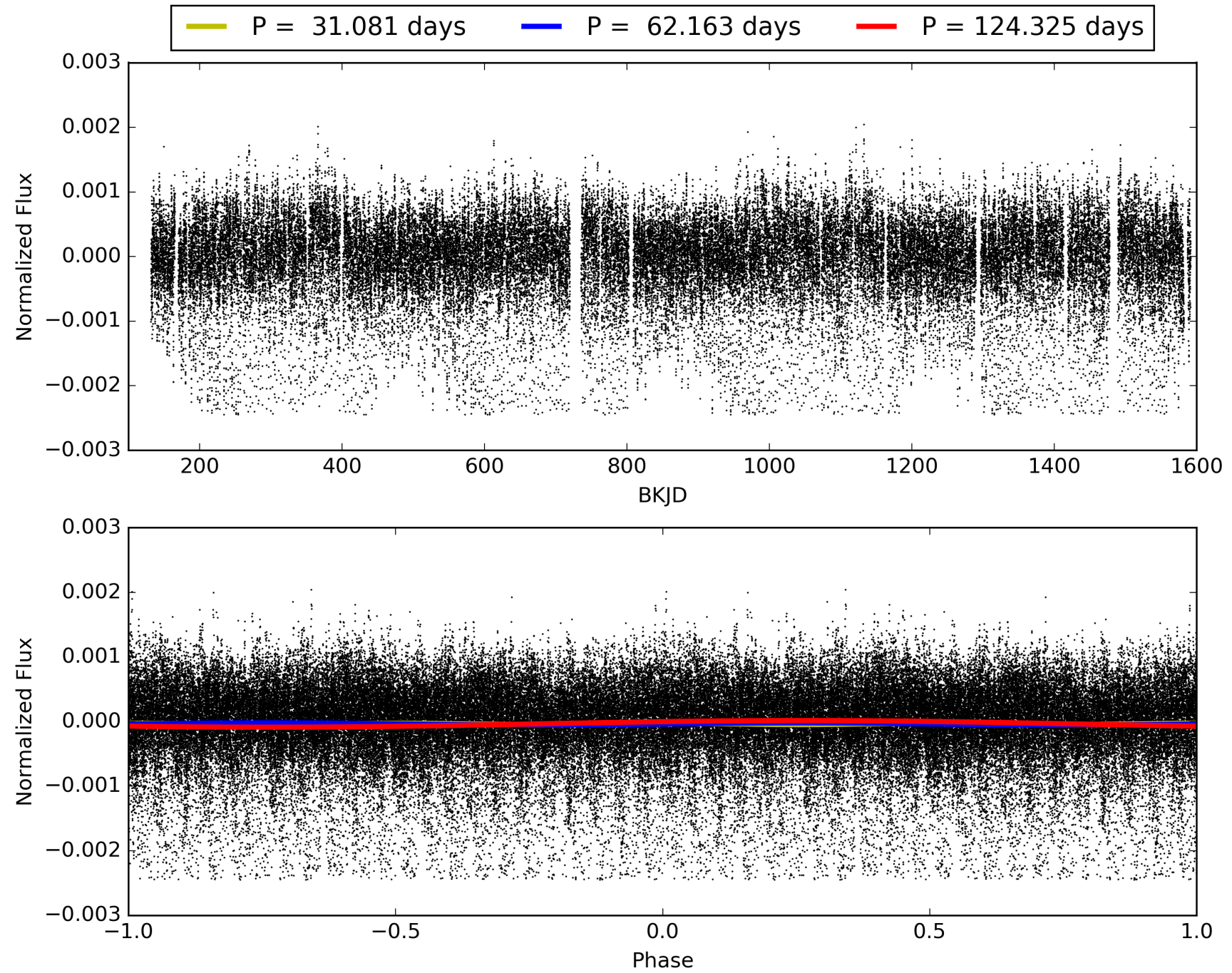
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:40:02 Z

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

TCE 005467126-07, PDC Light Curves

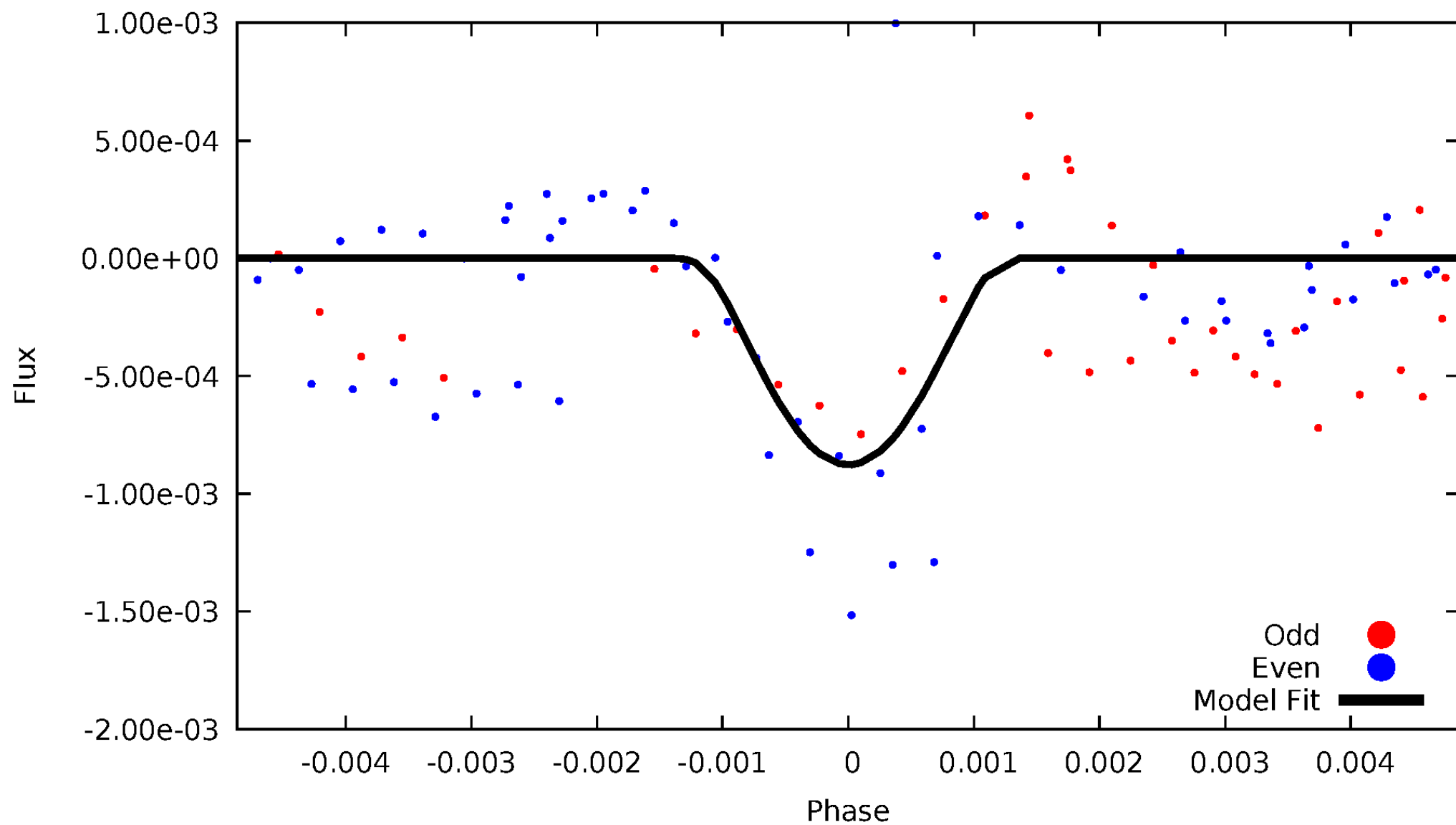


TCE 005467126-07



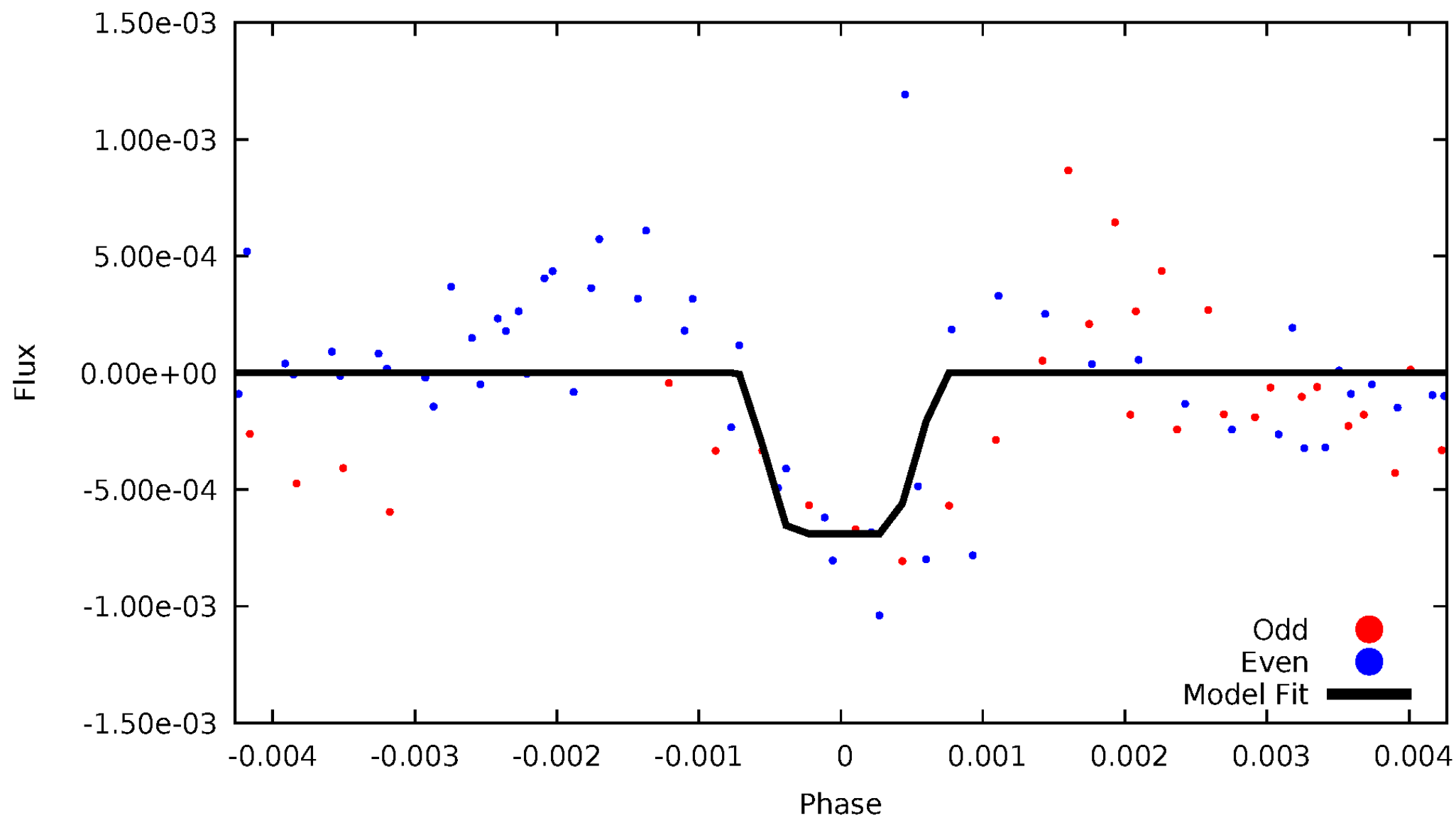
DV Odd/Even

TCE 005467126-07



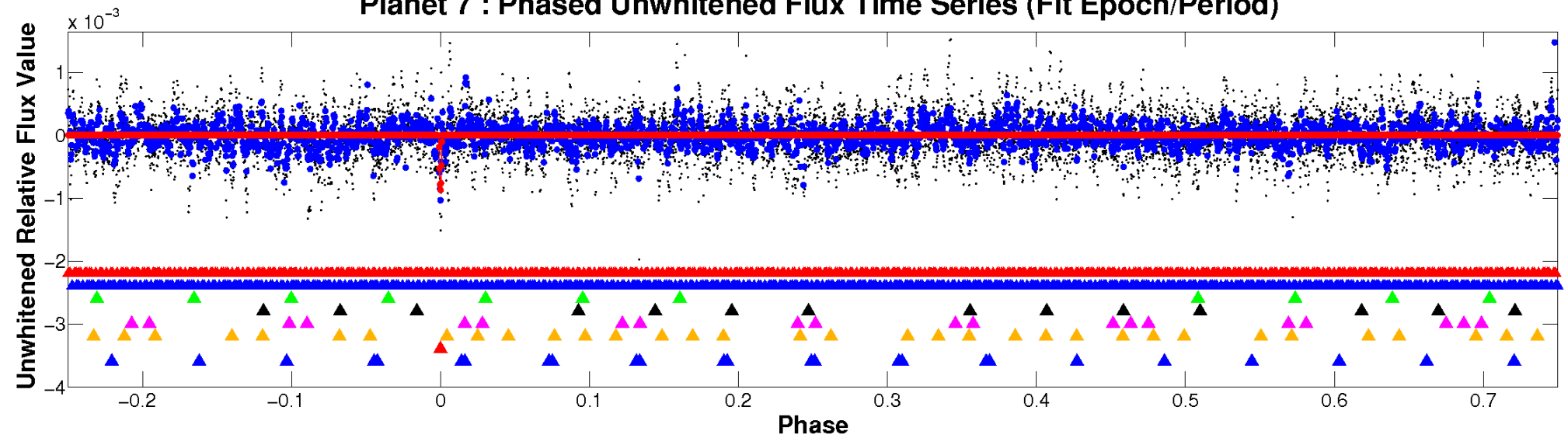
ALT Odd/Even

TCE 005467126-07

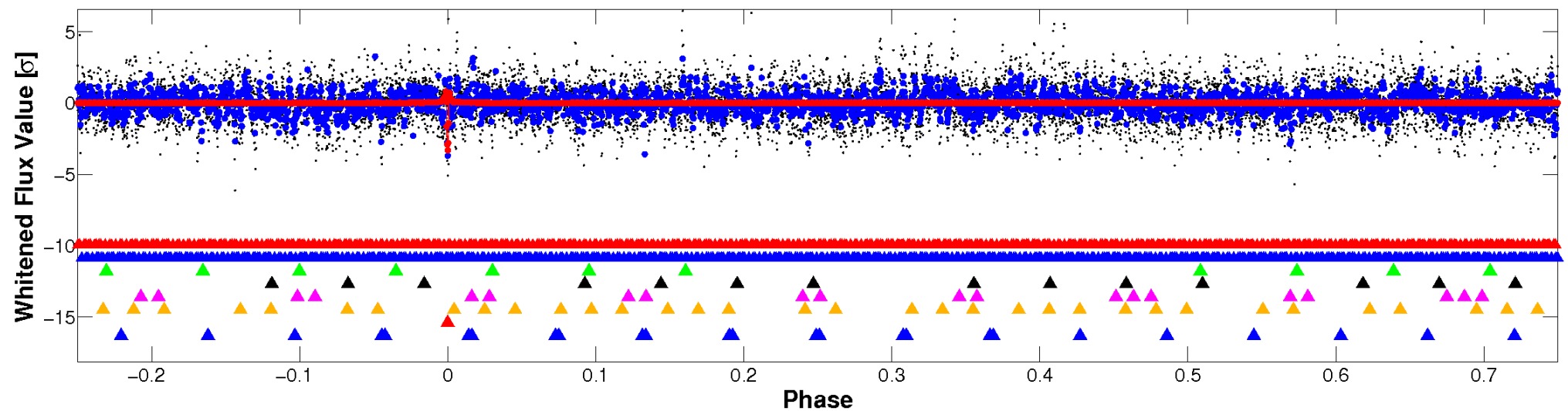


Non-Whitened Vs. Whitened Light Curve

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

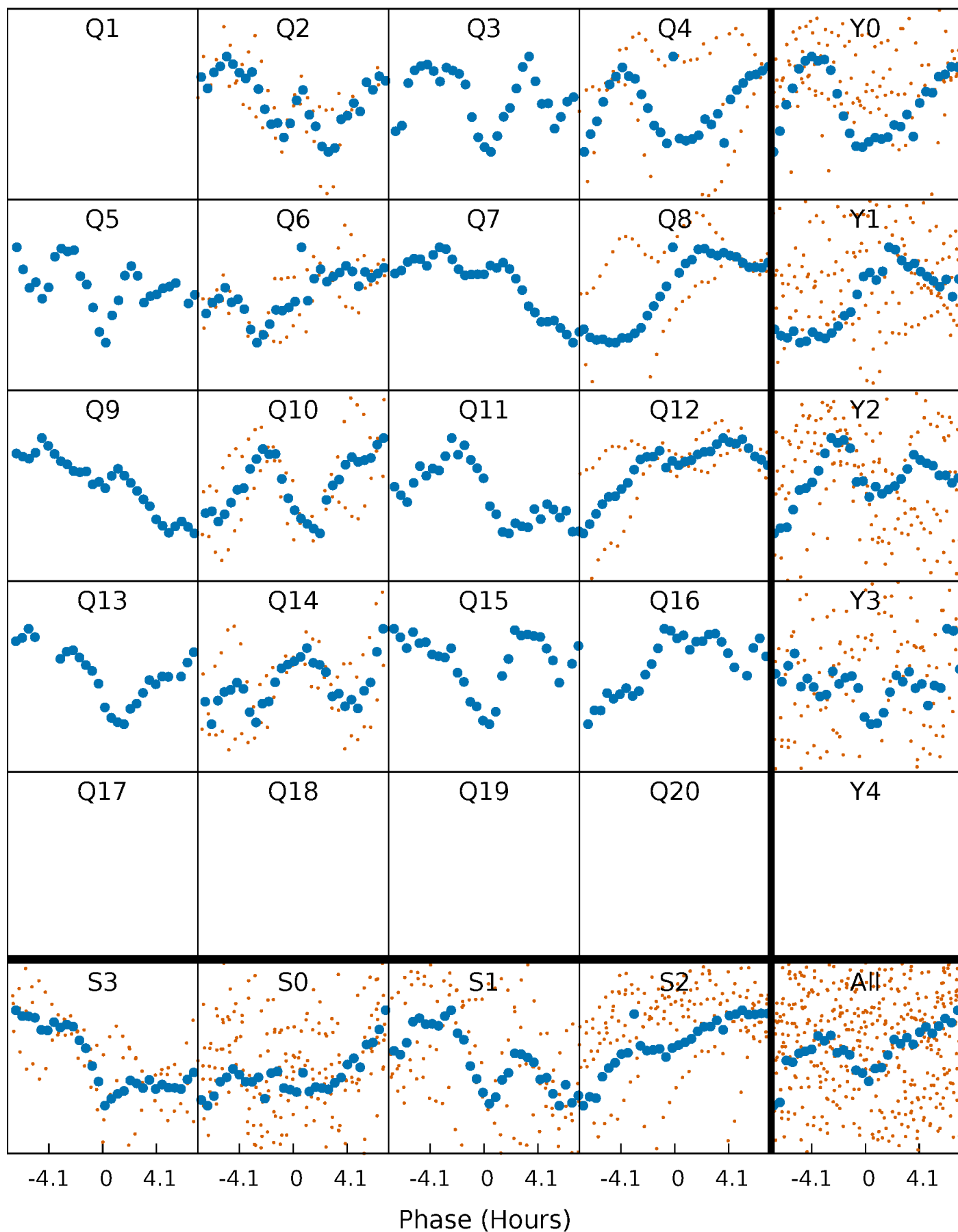


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



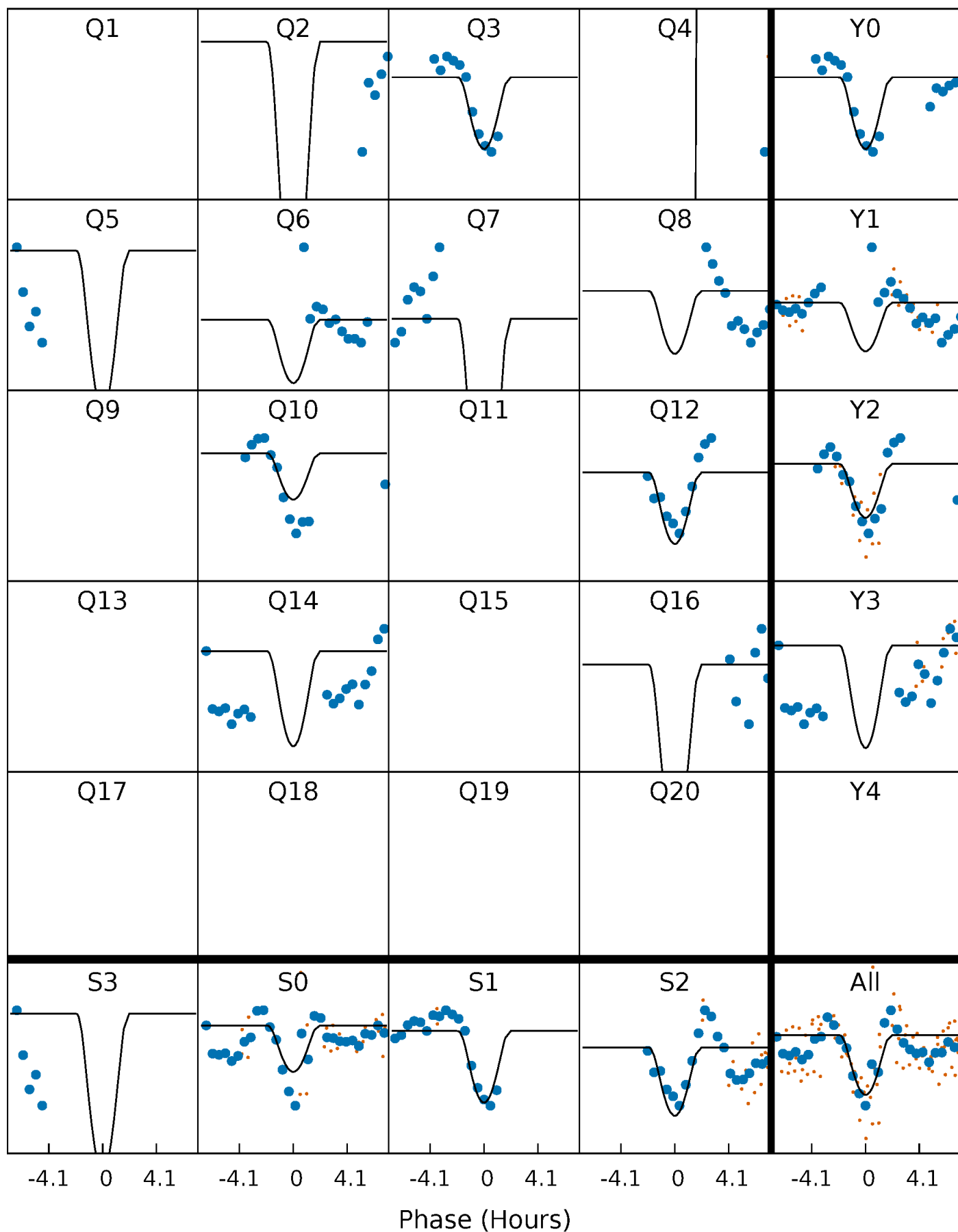
PDC Quarter-Phased Transit Curves

TCE 005467126-07 P= 62.162673 Days $T_0=178.711110$ (BKJD)



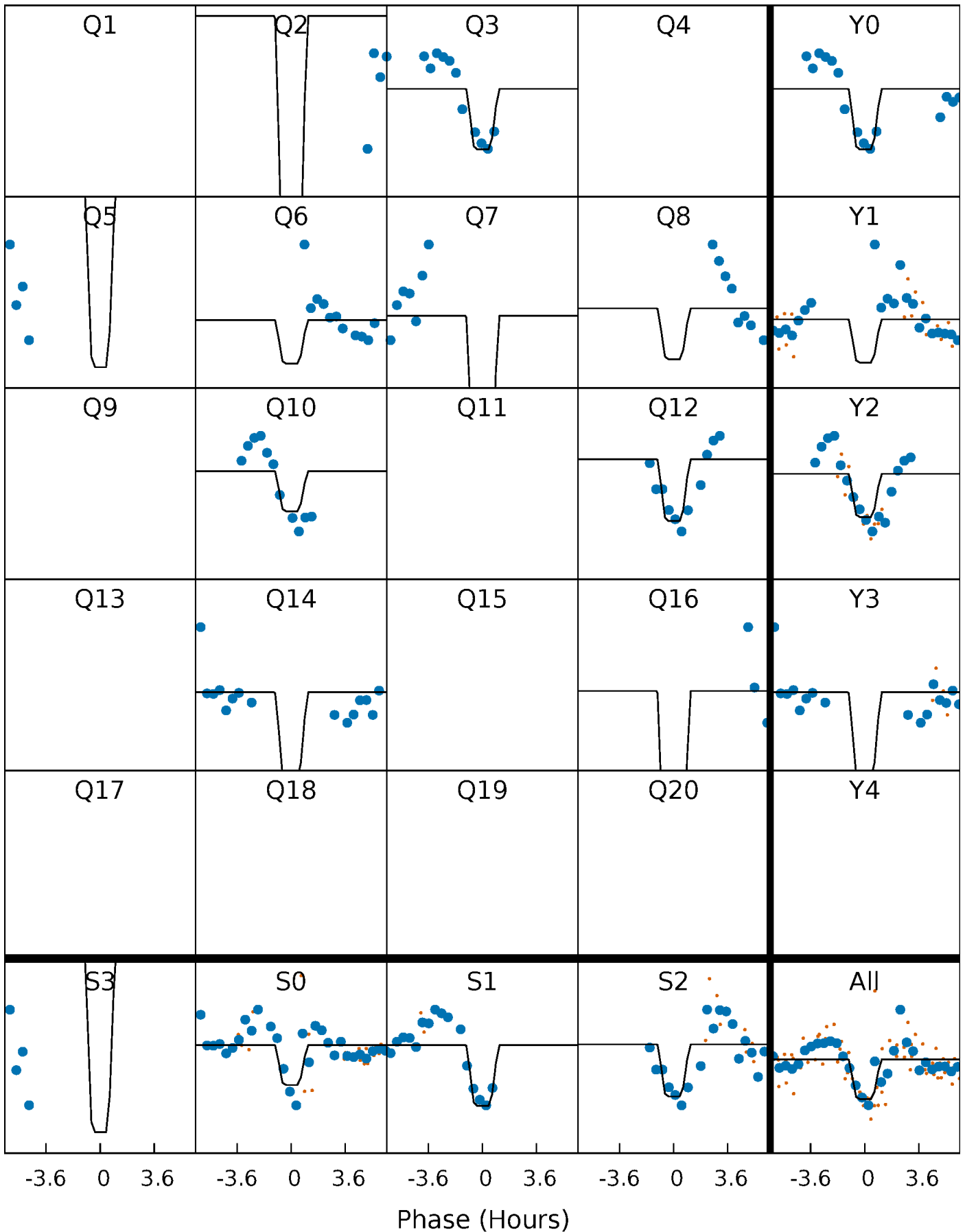
DV Quarter-Phased Transit Curves

TCE 005467126-07 P= 62.162673 Days $T_0=178.711110$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

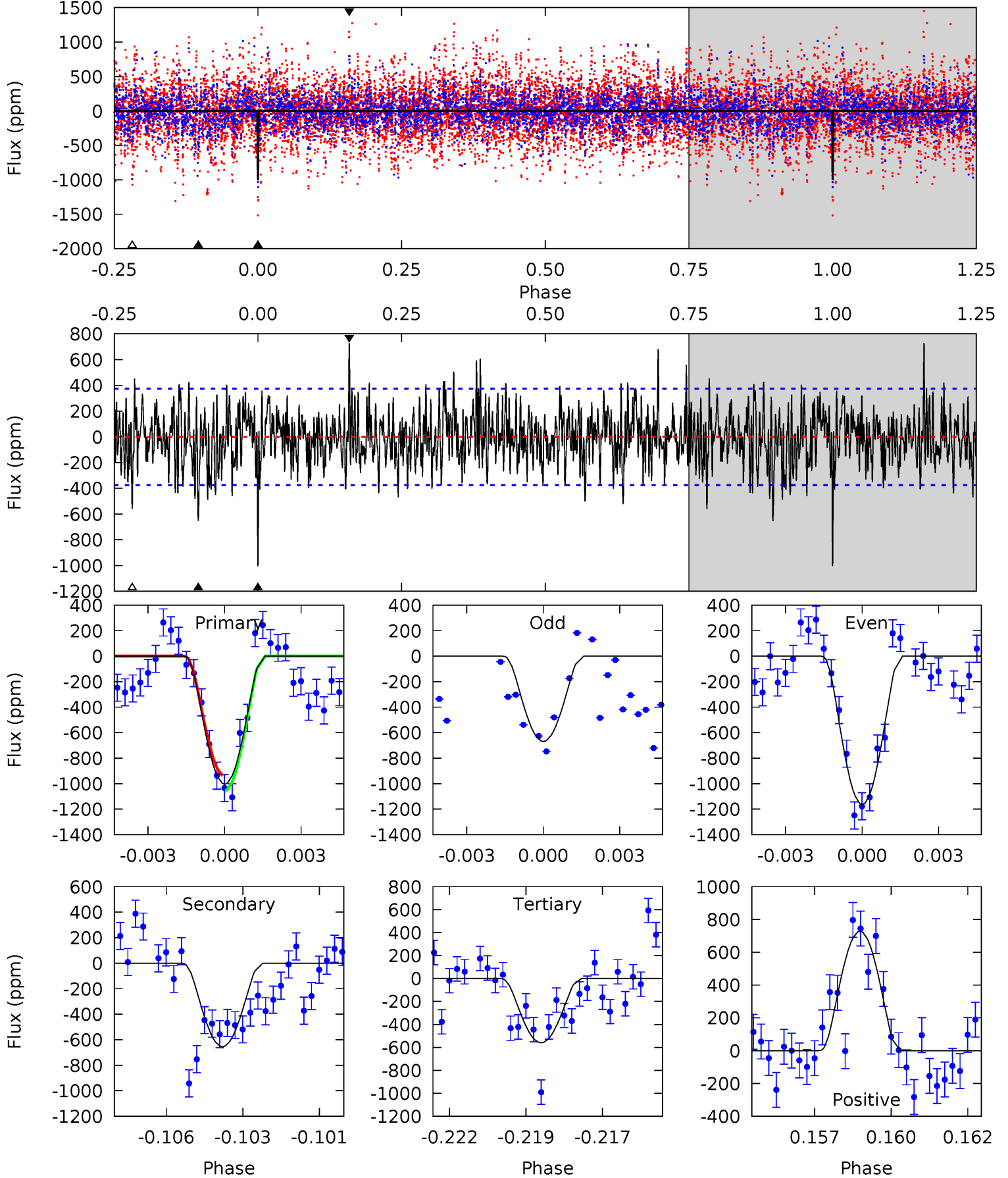
TCE 005467126-07 P= 62.160882 Days $T_0=178.717225$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-07, P = 62.162673 Days, E = 116.548437 Days

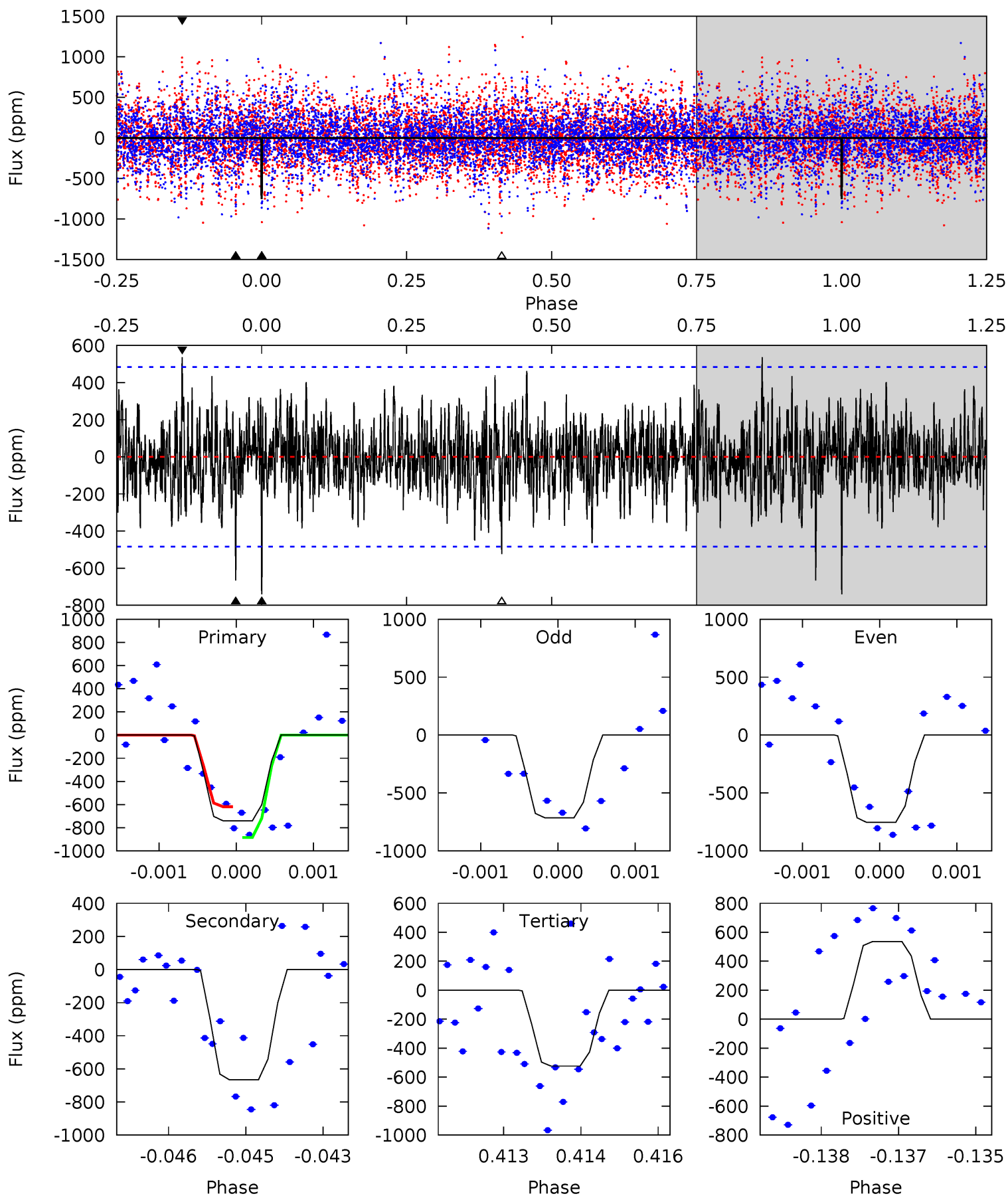
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.1	9.21	7.89	10.3	5.28	3.01	2.50	6.25	3.88	1.32	-1.05	3.30	0.71	0.42	0.84



Alt Model-Shift Uniqueness Test

005467126-07, P = 62.160882 Days, E = 116.556343 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.27	7.43	5.85	5.99	5.40	3.21	1.63	2.42	2.28	1.59	1.45	0.21	1.04	0.42	1.48



Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-653 ± 71	$201.80^{+203.93}_{-139.07}$	1507^{+86}_{-100}	2502^{+1104}_{-757}	$1.353^{+13.287}_{-1.020}$
Alt.	-666 ± 90	$175.05^{+209.29}_{-125.56}$	1507^{+86}_{-103}	2627^{+1219}_{-646}	$1.912^{+20.485}_{-1.480}$

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 $A_{obs} \gg 1.0$

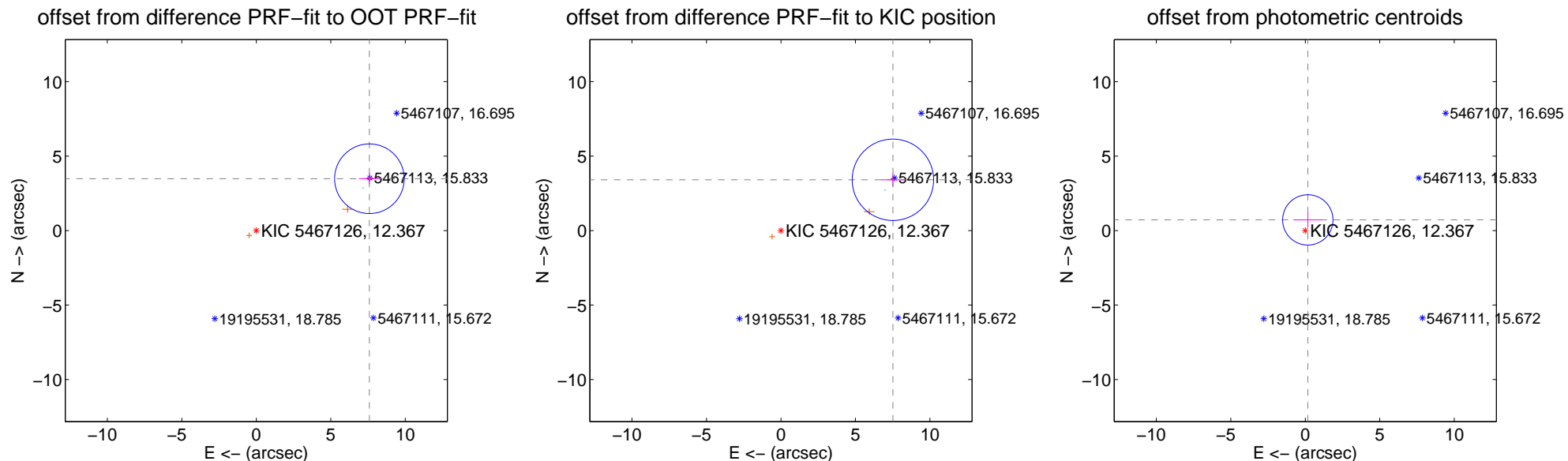
DV Centroid Data

Supplemental centroid analysis for 005467126-07. Kepler magnitude: 12.37. Transit SNR 10.12

There are 4 quarters with good PRF difference image offsets

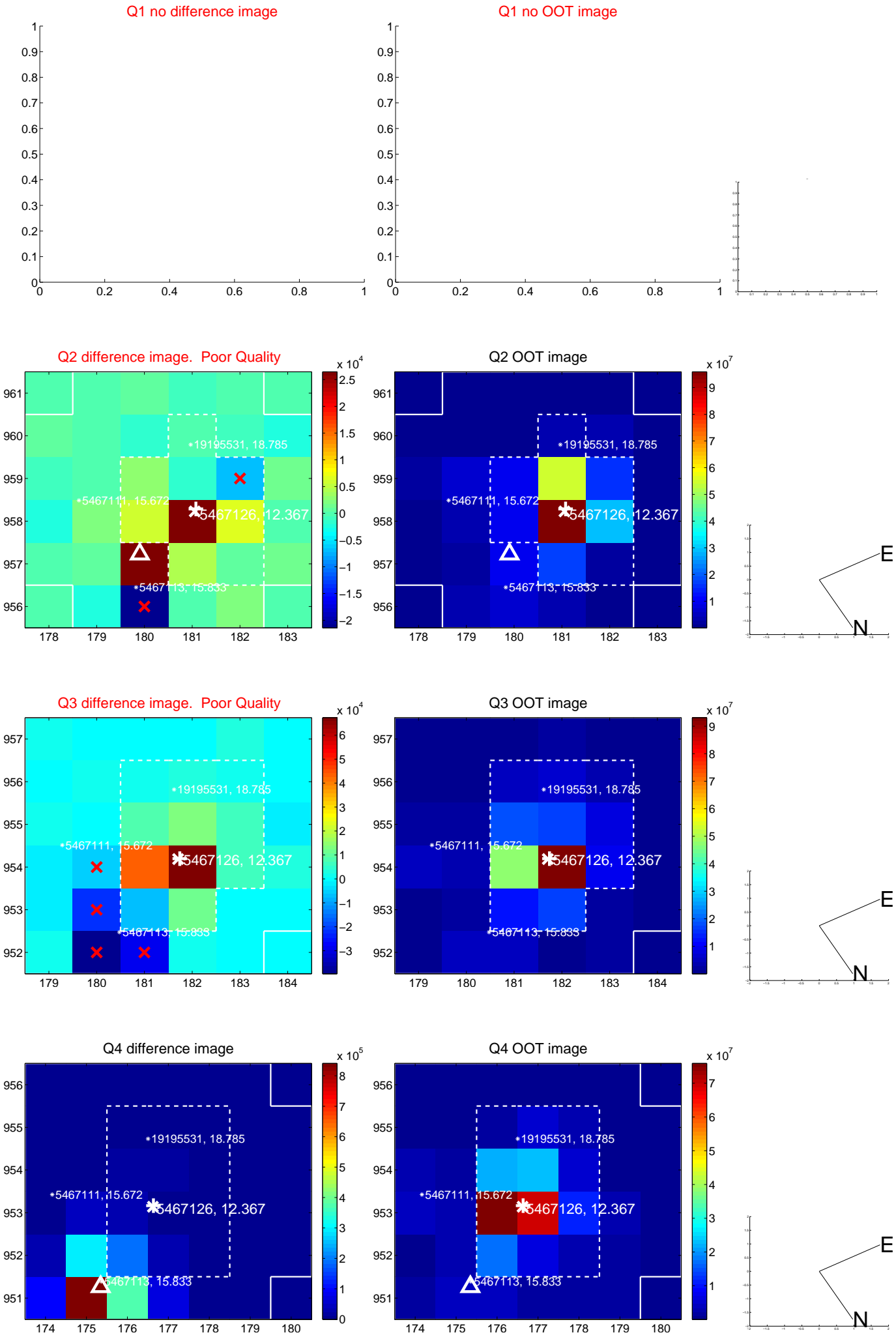
The direct PRF centroid is offset from the target star catalog position by about 0.12 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.354 ± 0.779	10.72	-7.594 ± 0.700	3.481 ± 0.372
PRF-fit source offset from KIC position	8.255 ± 0.911	9.06	-7.517 ± 0.815	3.410 ± 0.430
photometric centroid source offset	0.74 ± 0.56	1.31	-0.17 ± 0.98	0.72 ± 0.53

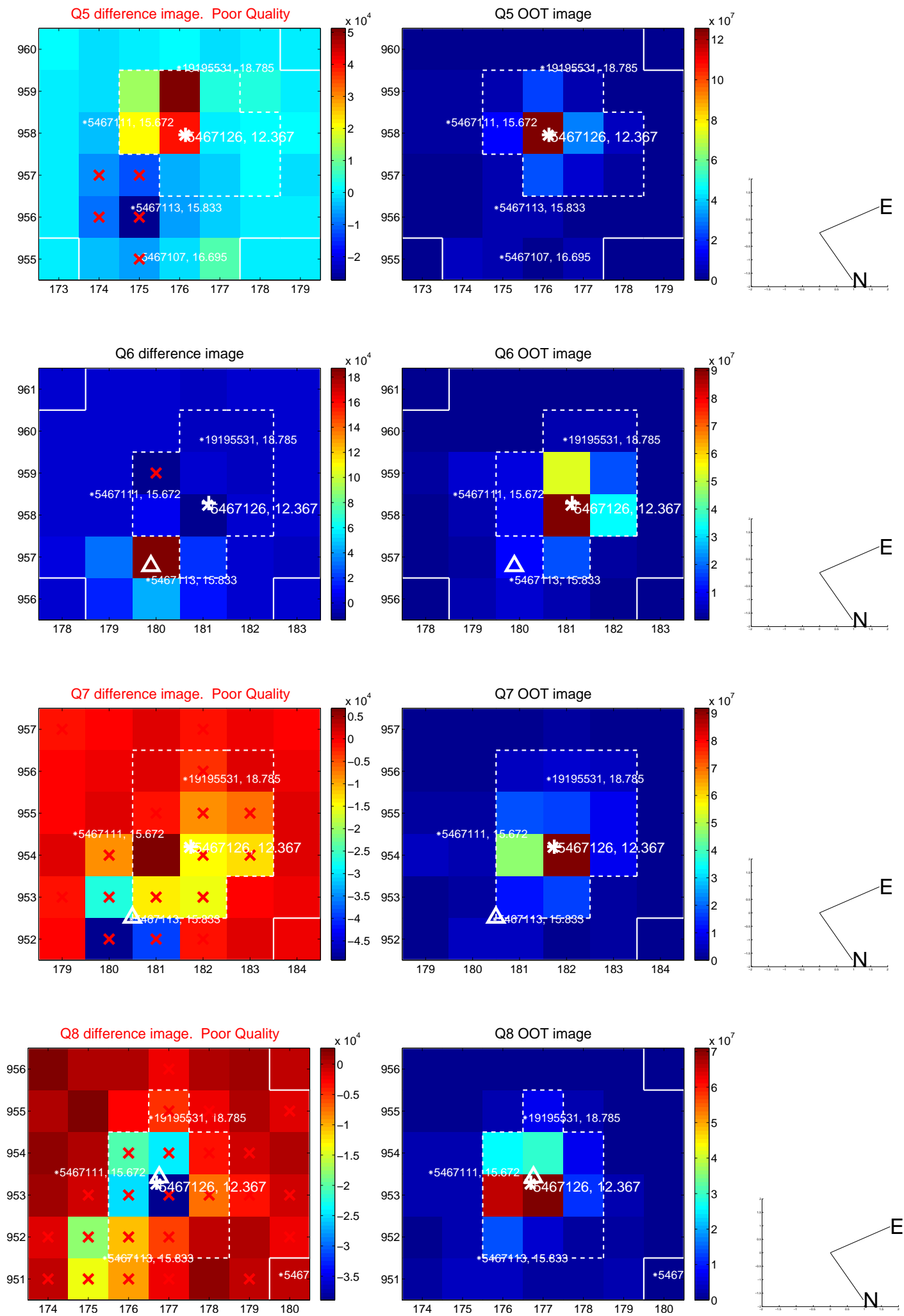


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

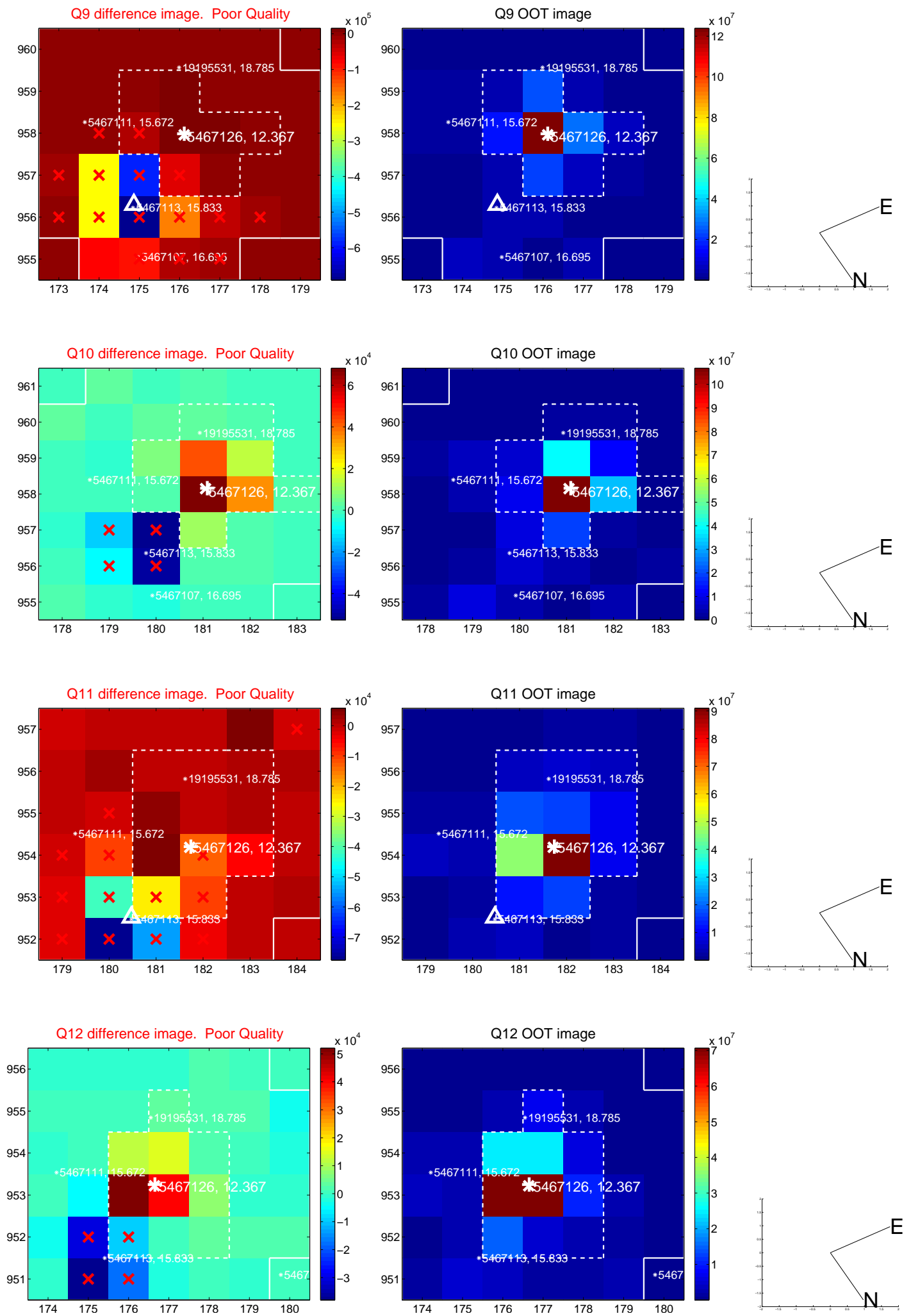
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



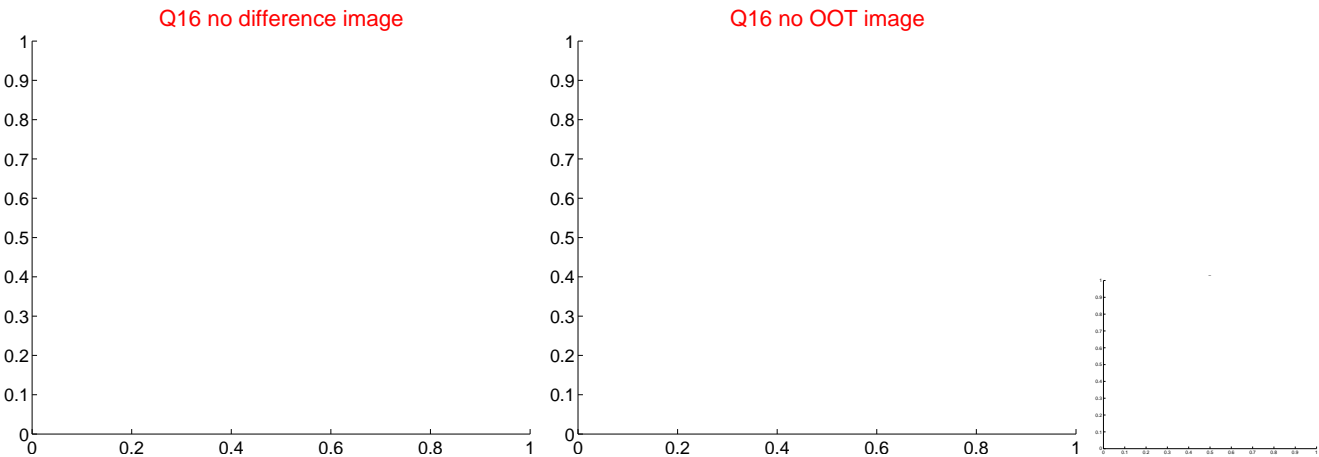
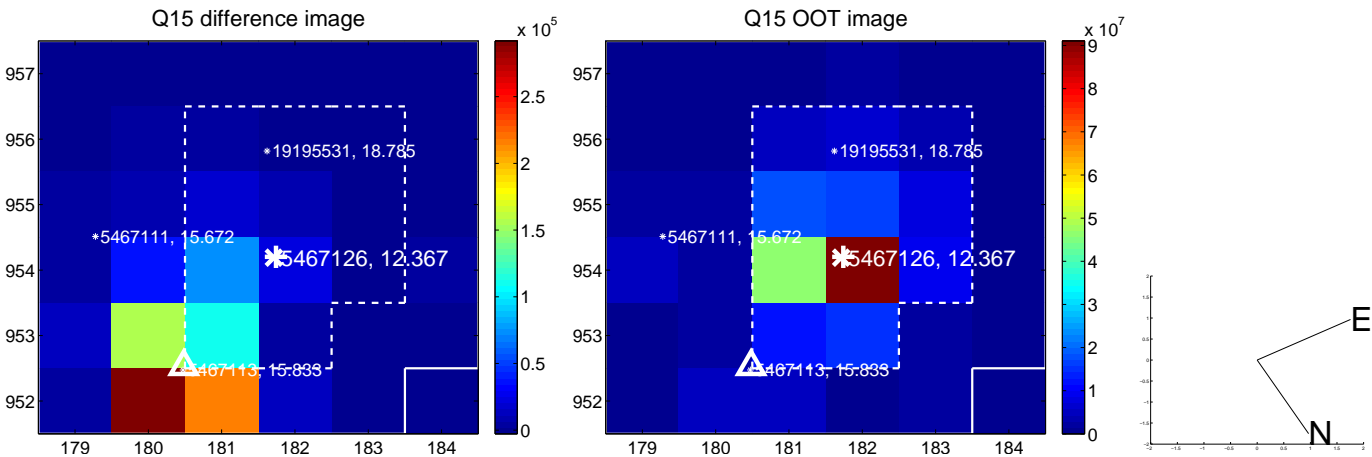
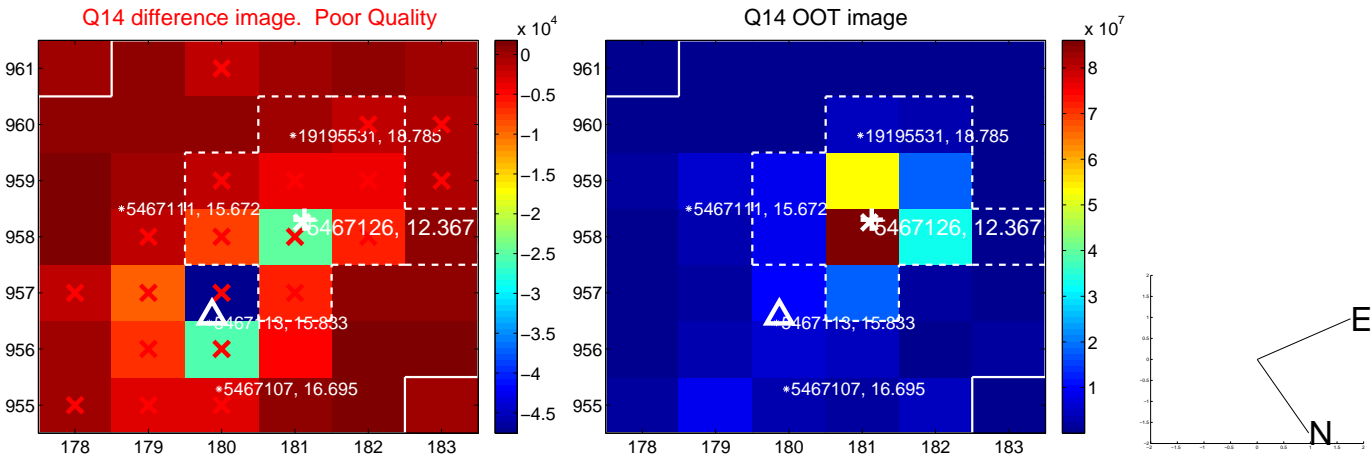
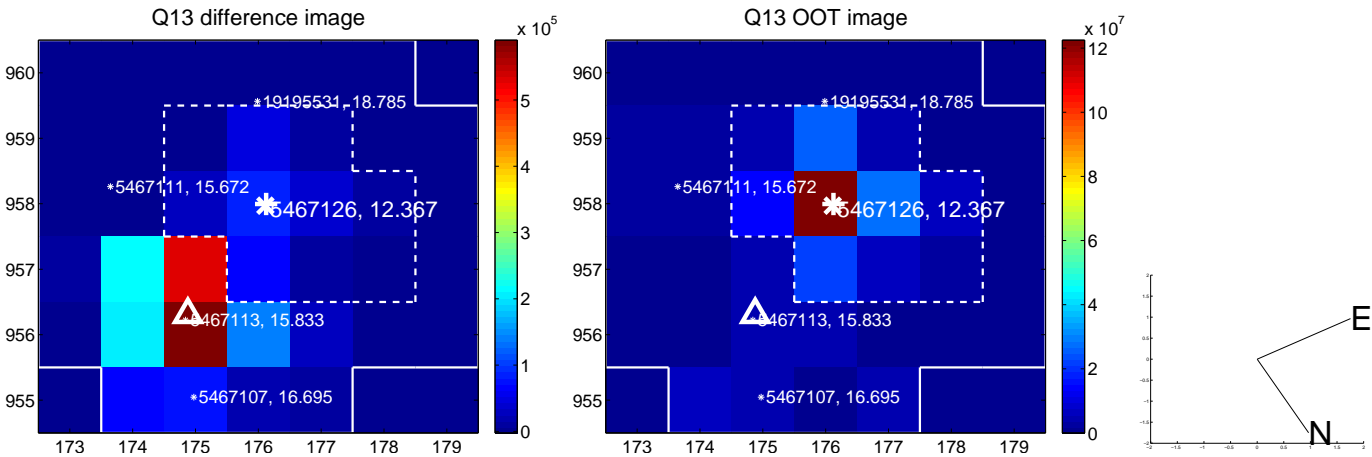
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



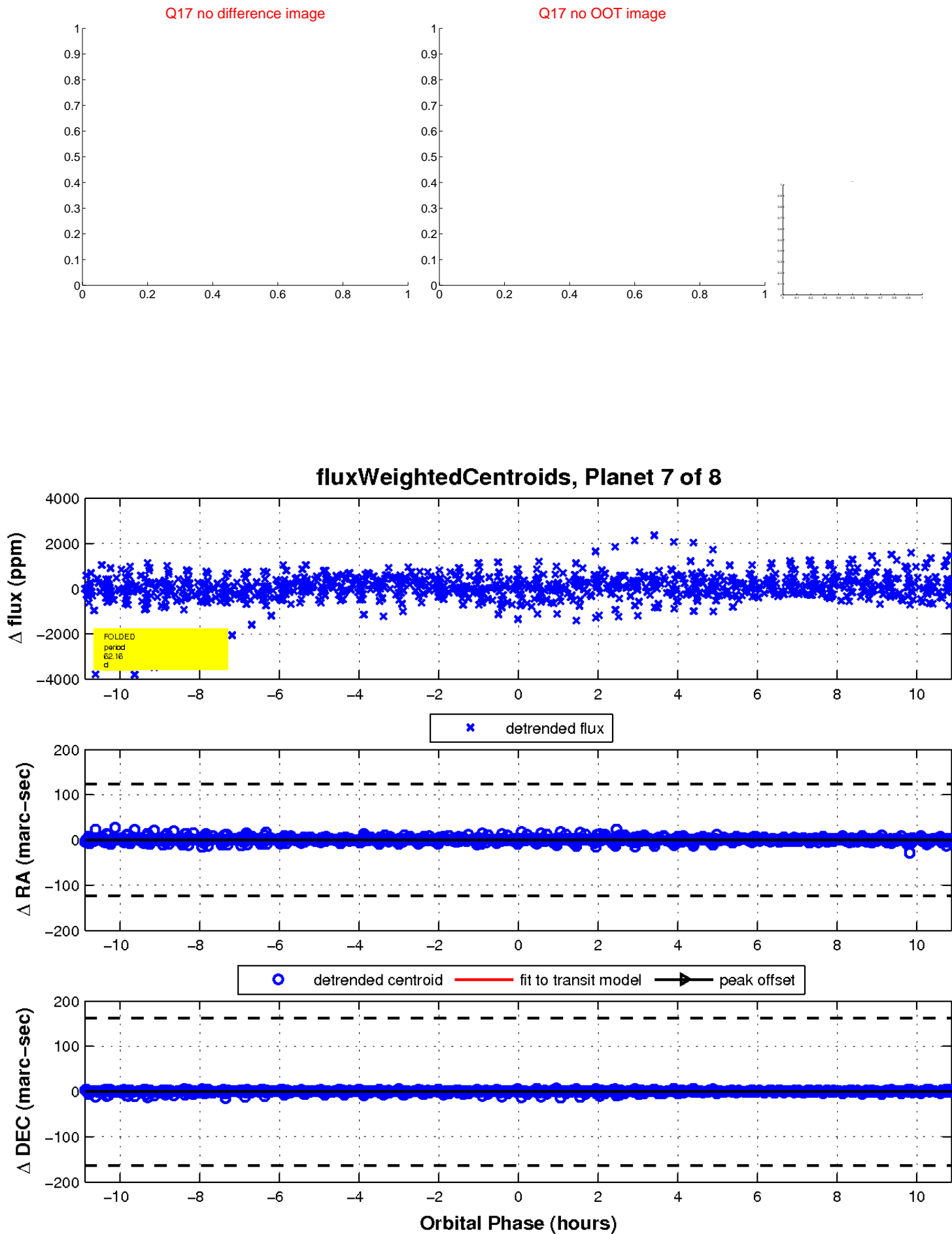
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

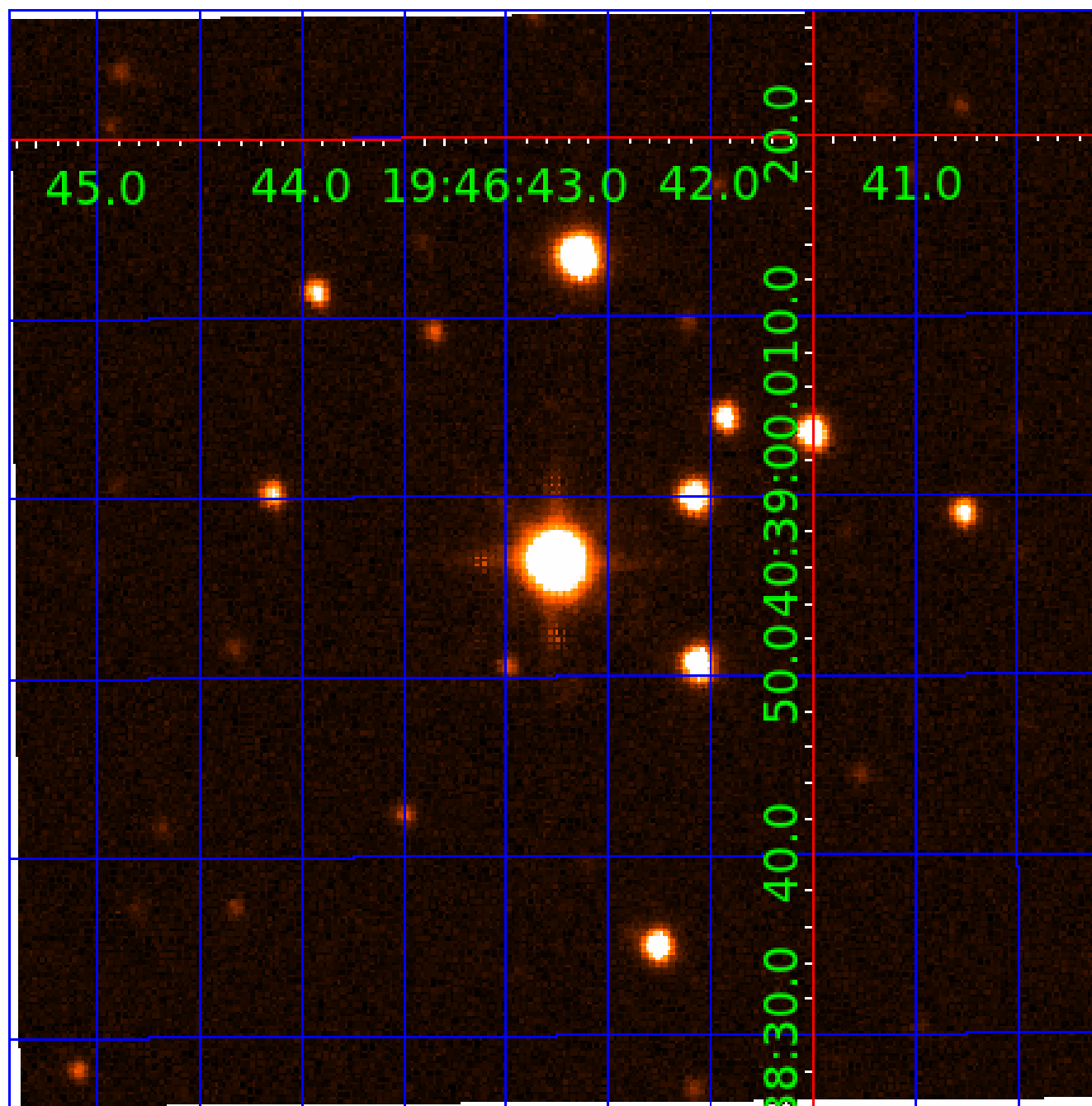


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467126

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})
005467126-01	OBS	5171.01	2.845731	134.282663	2448.4	10.583	105.3	130.9	10.15	4878	99.15	0.00
005467126-02	OBS	No	2.845742	132.852823	187.8	8.179	13.5	18.0	10.15	4878	30.19	20702.64
005467126-03	OBS	No	128.379343	210.323277	1090.8	6.151	15.9	14.6	10.15	4878	61.84	128.91
005467126-04	OBS	No	107.984767	148.244746	1180.8	9.436	13.6	13.4	10.15	4878	56.69	162.36
005467126-05	OBS	No	76.058703	144.612013	853.3	3.591	13.1	10.1	10.15	4878	58.92	259.07
005467126-06	OBS	No	42.937114	138.607145	665.4	2.986	12.3	11.5	10.15	4878	26.43	555.28
005467126-07	OBS	No	62.162673	178.711110	877.3	3.628	12.2	10.1	10.15	4878	62.02	339.04
005467126-08	OBS	No	58.514198	139.319529	314.8	3.000	11.5	-1.0	10.15	4878	17.42	367.51

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467126-01	OBS	FP	0.00	0	1	1	1	PLANET_IN_STAR—MOD_SEC_ALT—MOD_ODDEVEN_DV—DEEP_V_SHAPED—HAS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-02	OBS	FP	0.00	1	1	1	1	IS_SEC_TCE—CENT_RESOLVED_OFFSET—EPHEM_MATCH
005467126-03	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_FEW_DIFFS
005467126-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-05	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-06	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—CENT_RESOLVED_OFFSET
005467126-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_RESOLVED_OFFSET
005467126-08	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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 005467126-08

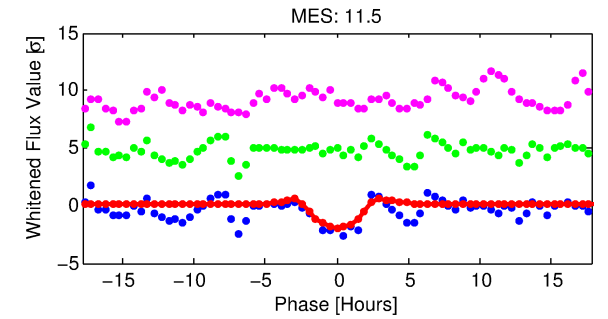
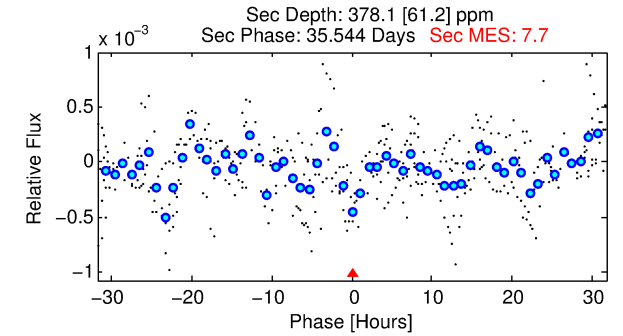
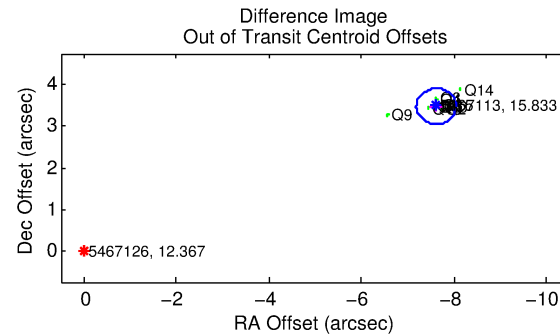
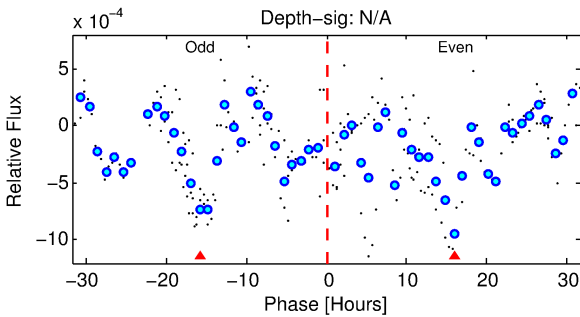
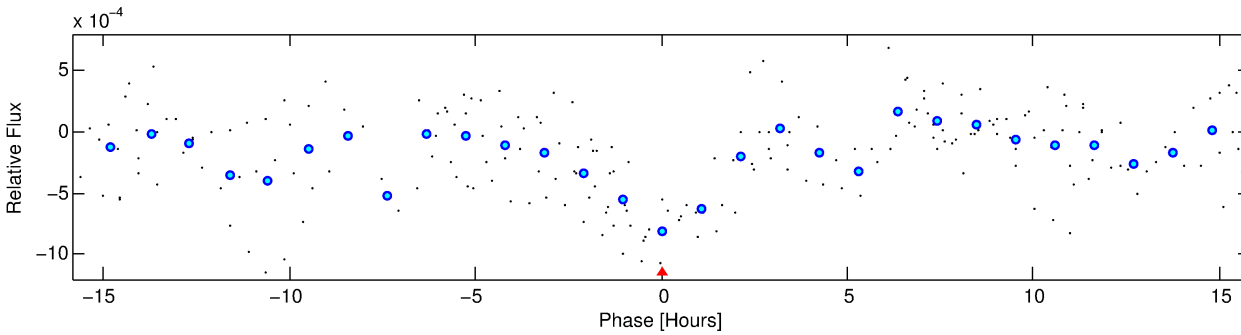
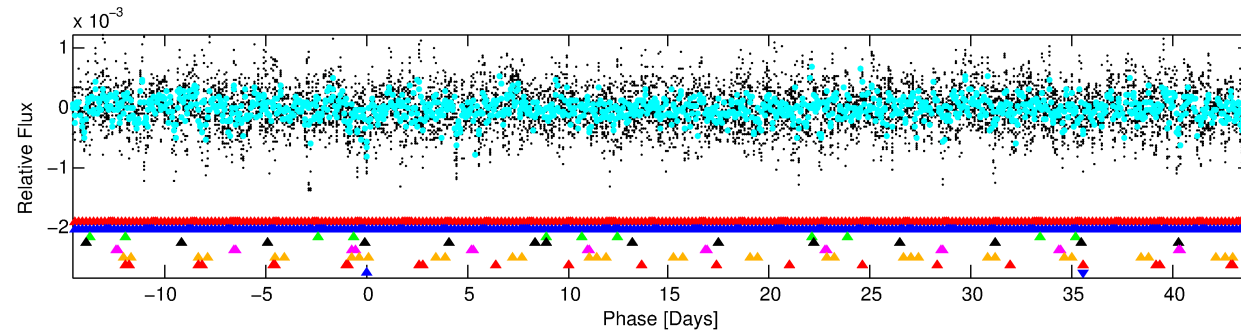
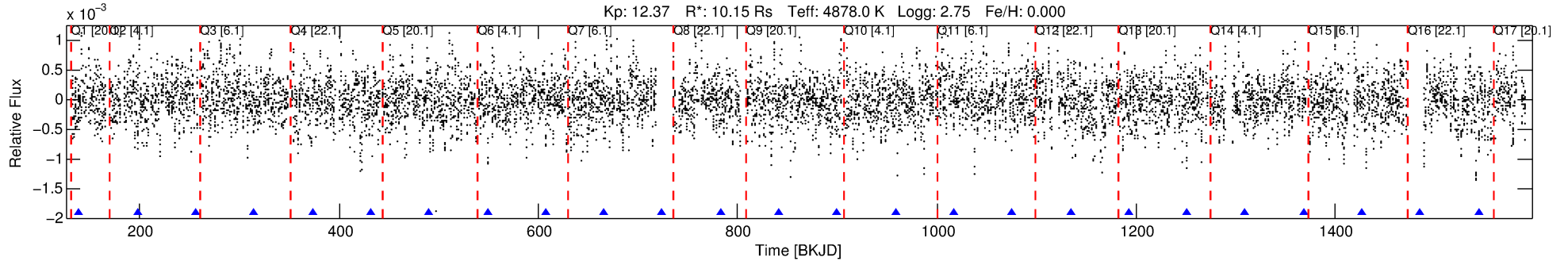
No Significant Match Found

DV One-Page Summary

KIC: 5467126 Candidate: 8 of 8 Period: 58.514 d

KOI: K05171 Corr: No Ephemeris Match

Kp: 12.37 R*: 10.15 Rs Teff: 4878.0 K Logg: 2.75 Fe/H: 0.000



TPS TCE Results:

Period = 58.51420 d
Epoch = 139.3195 BKJD

DV fit results are unavailable

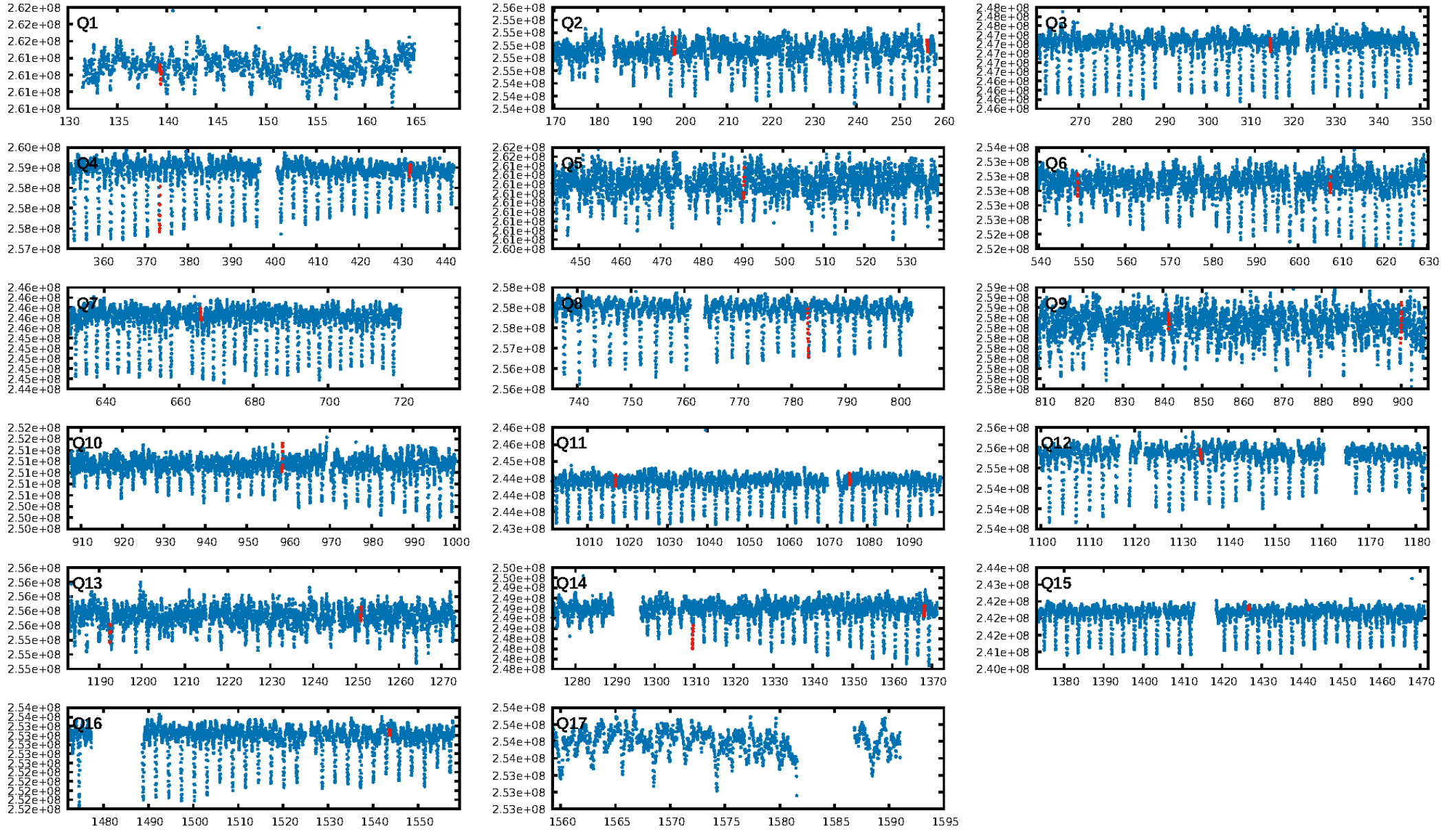
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [88.32σ]
LongPeriod-sig: 100.0% [18.60σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: 1.436
Centroid-sig: 5.0%
Centroid-so: 0.763 arcsec [0.99σ]
OotOffset-rm: 8.367 arcsec [58.65σ]
KicOffset-rm: 8.296 arcsec [72.79σ]
OotOffset-st: 3/3/2/3 [11]
KicOffset-st: 3/3/2/3 [11]
DiffImageQuality-fgm: 0.36 [4/11]
DiffImageOverlap-fno: 0.13 [2/15]

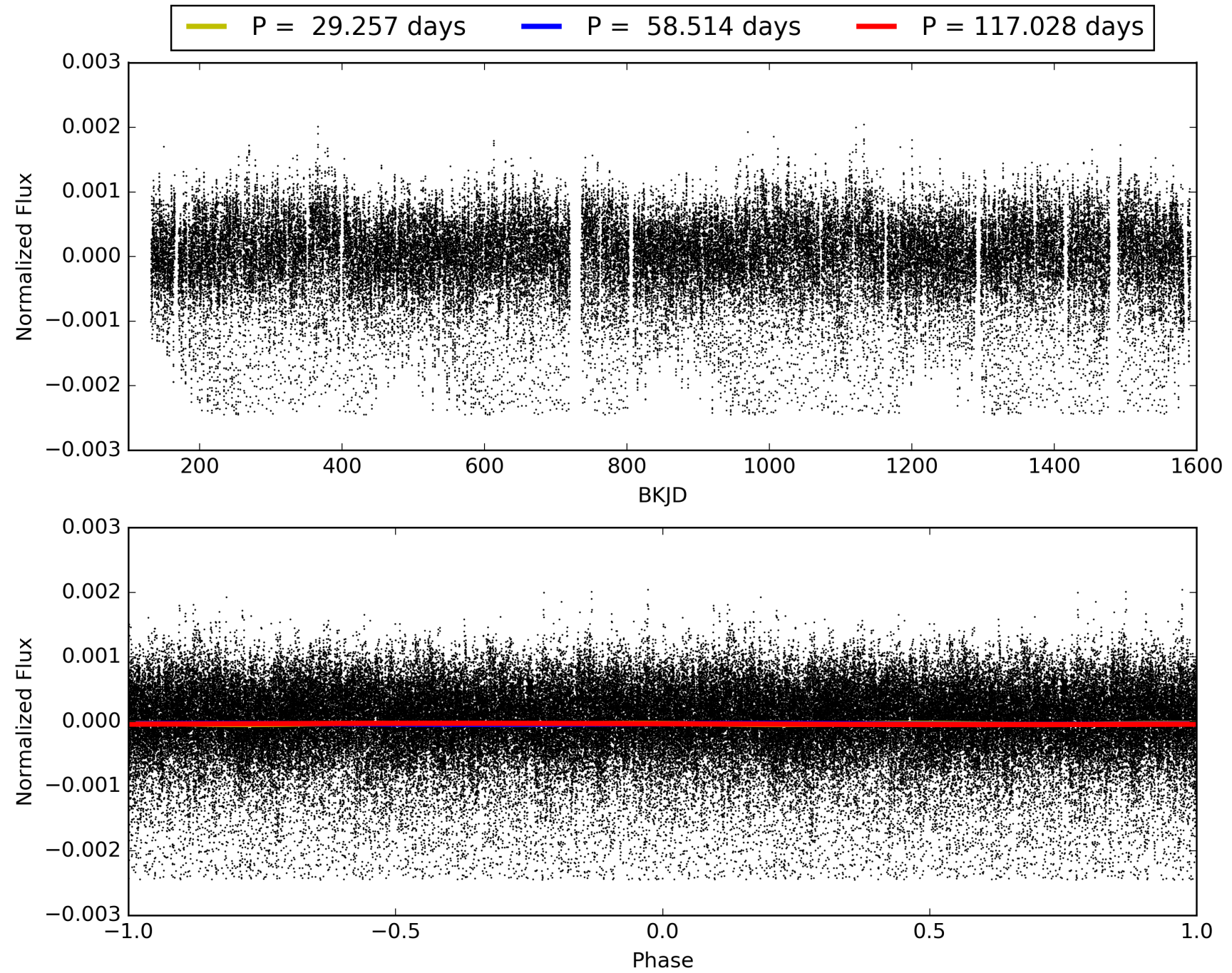
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 09:40:06 Z

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

TCE 005467126-08, PDC Light Curves

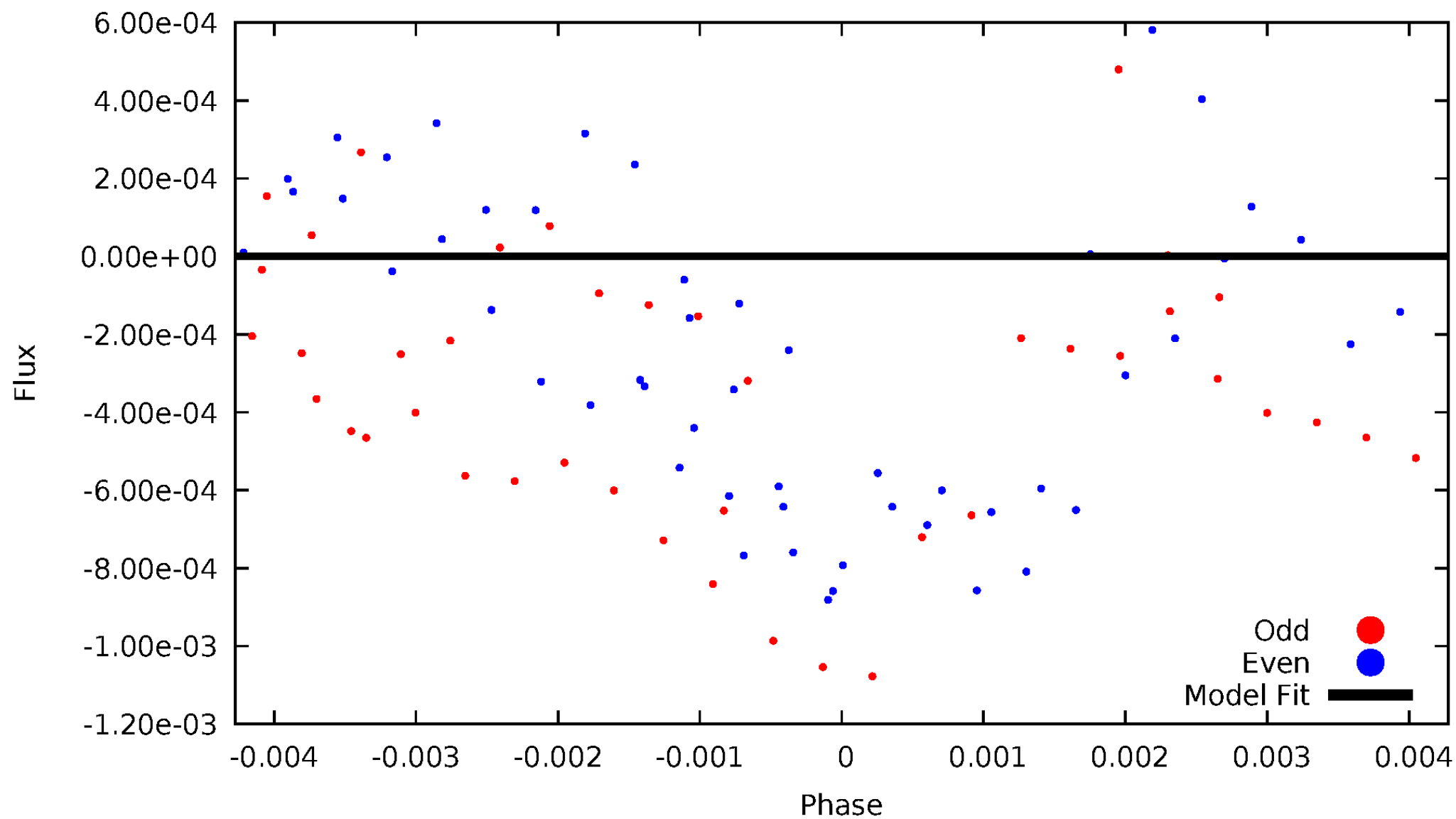


TCE 005467126-08



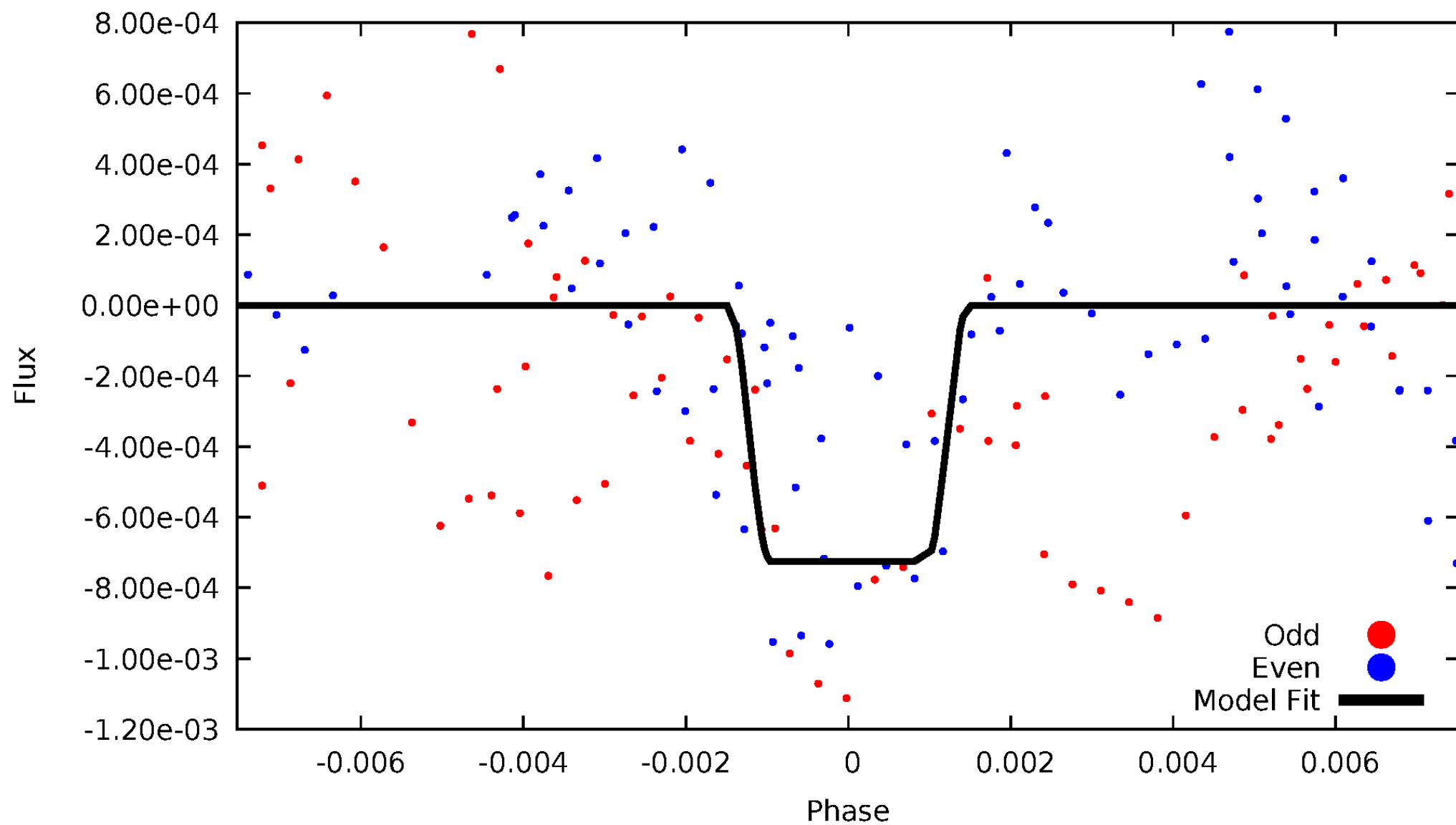
DV Odd/Even

TCE 005467126-08



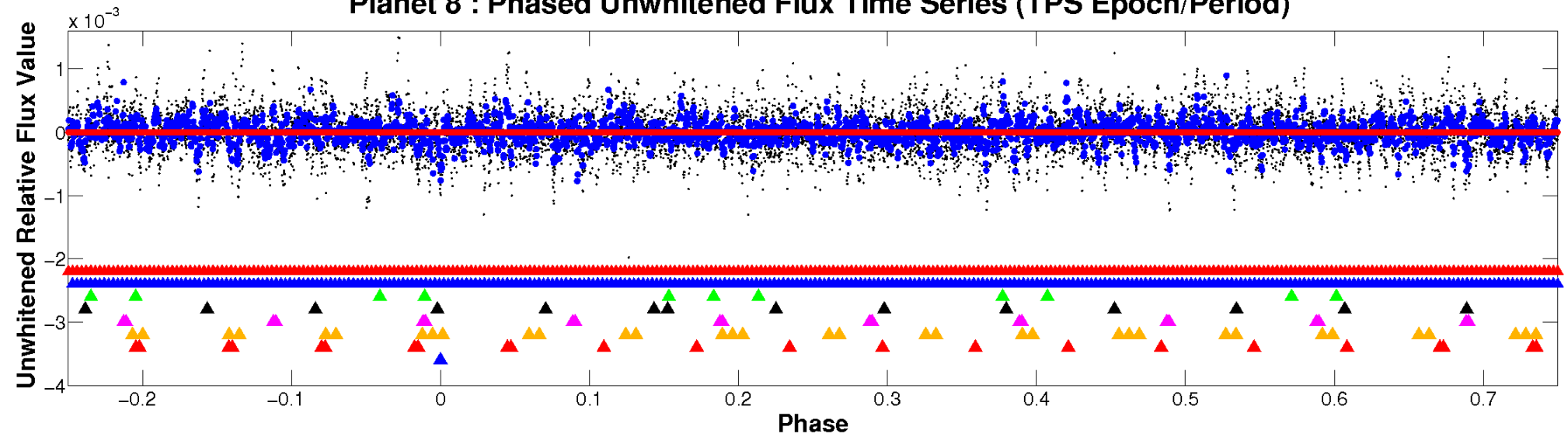
ALT Odd/Even

TCE 005467126-08

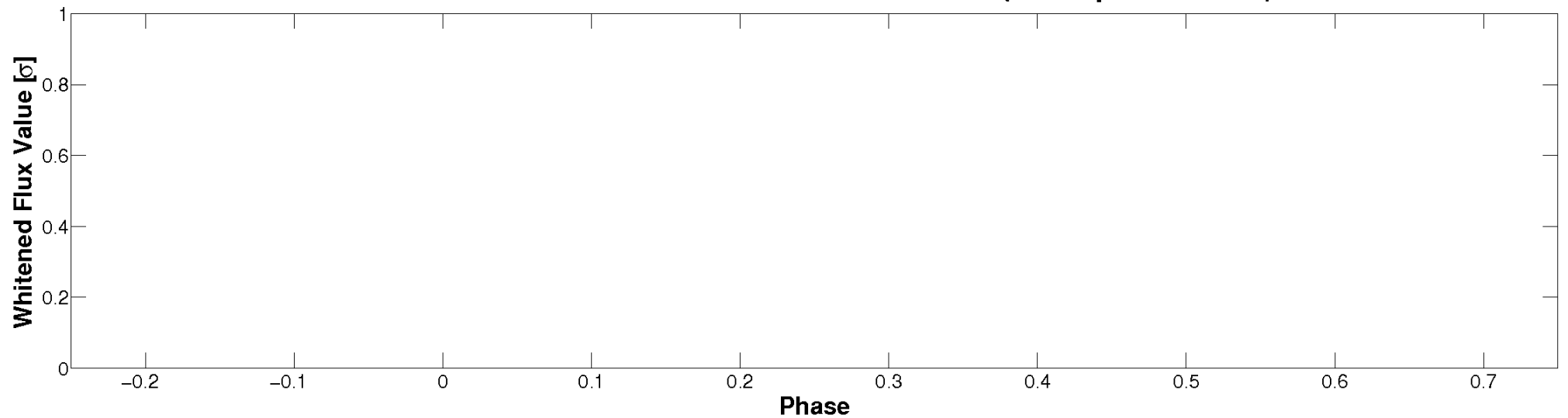


Non-Whitened Vs. Whitened Light Curve

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

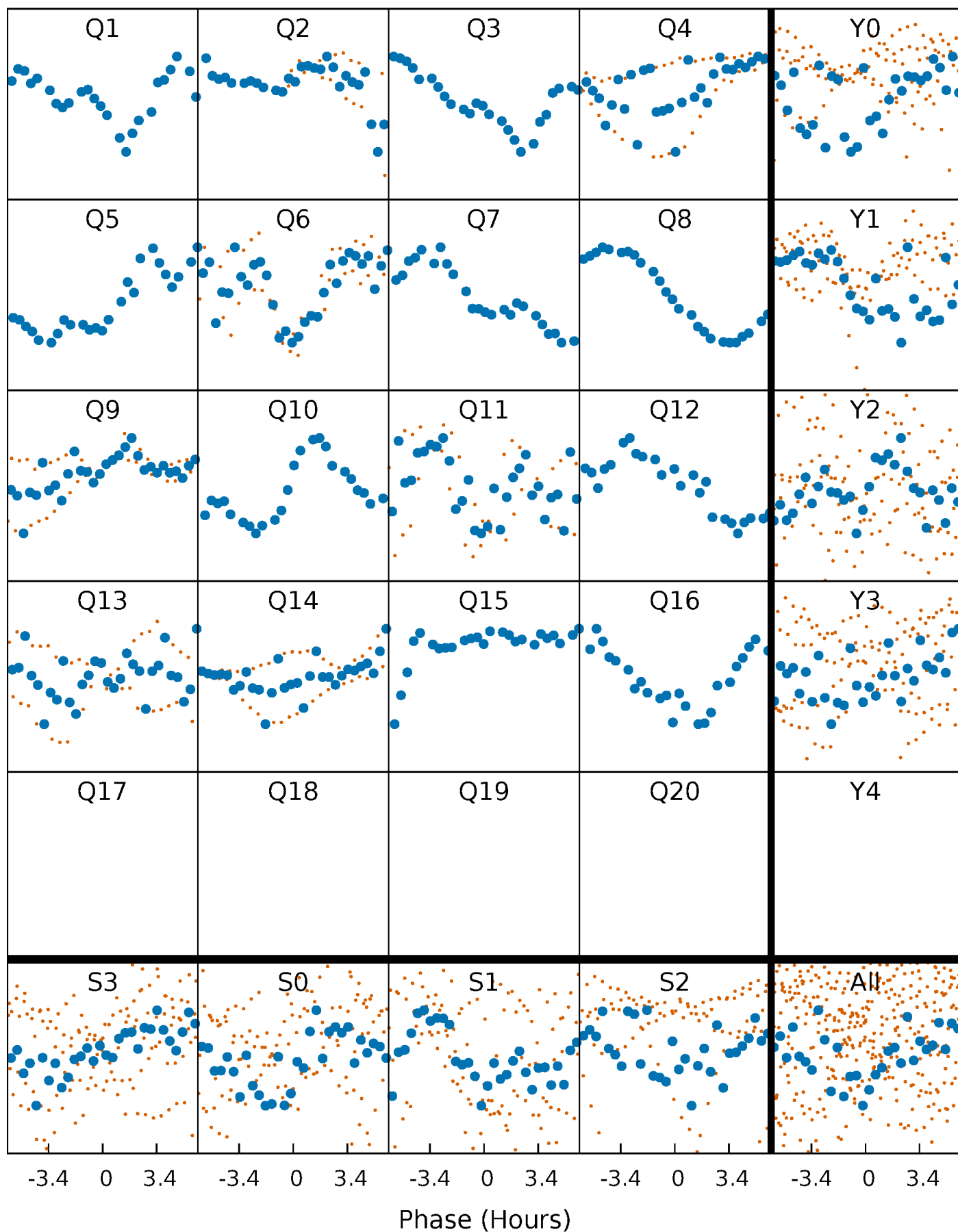


Planet 8 : Phased Whitened Flux Time Series (TPS Epoch/Period)



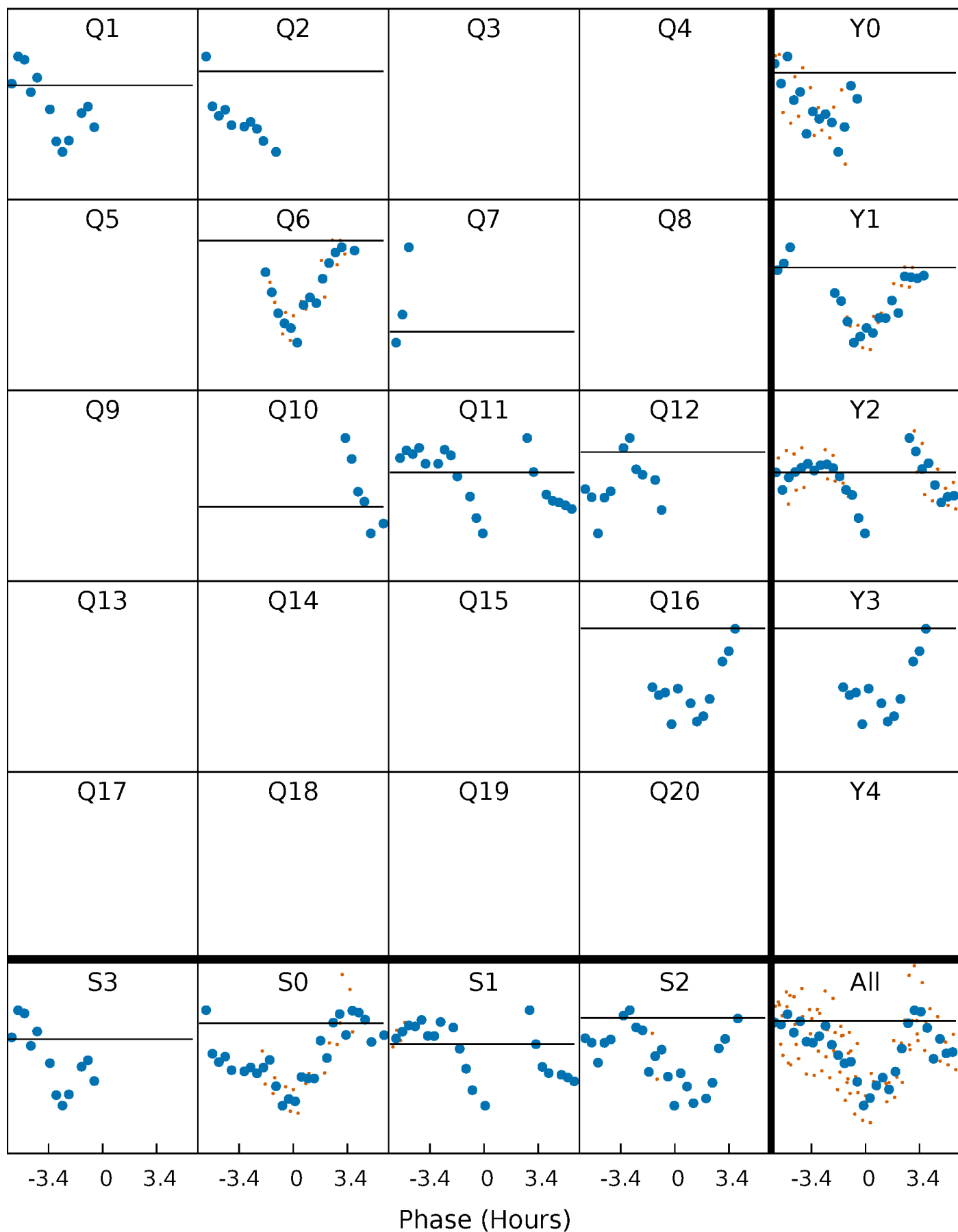
PDC Quarter-Phased Transit Curves

TCE 005467126-08 P= 58.514198 Days $T_0=139.319529$ (BKJD)



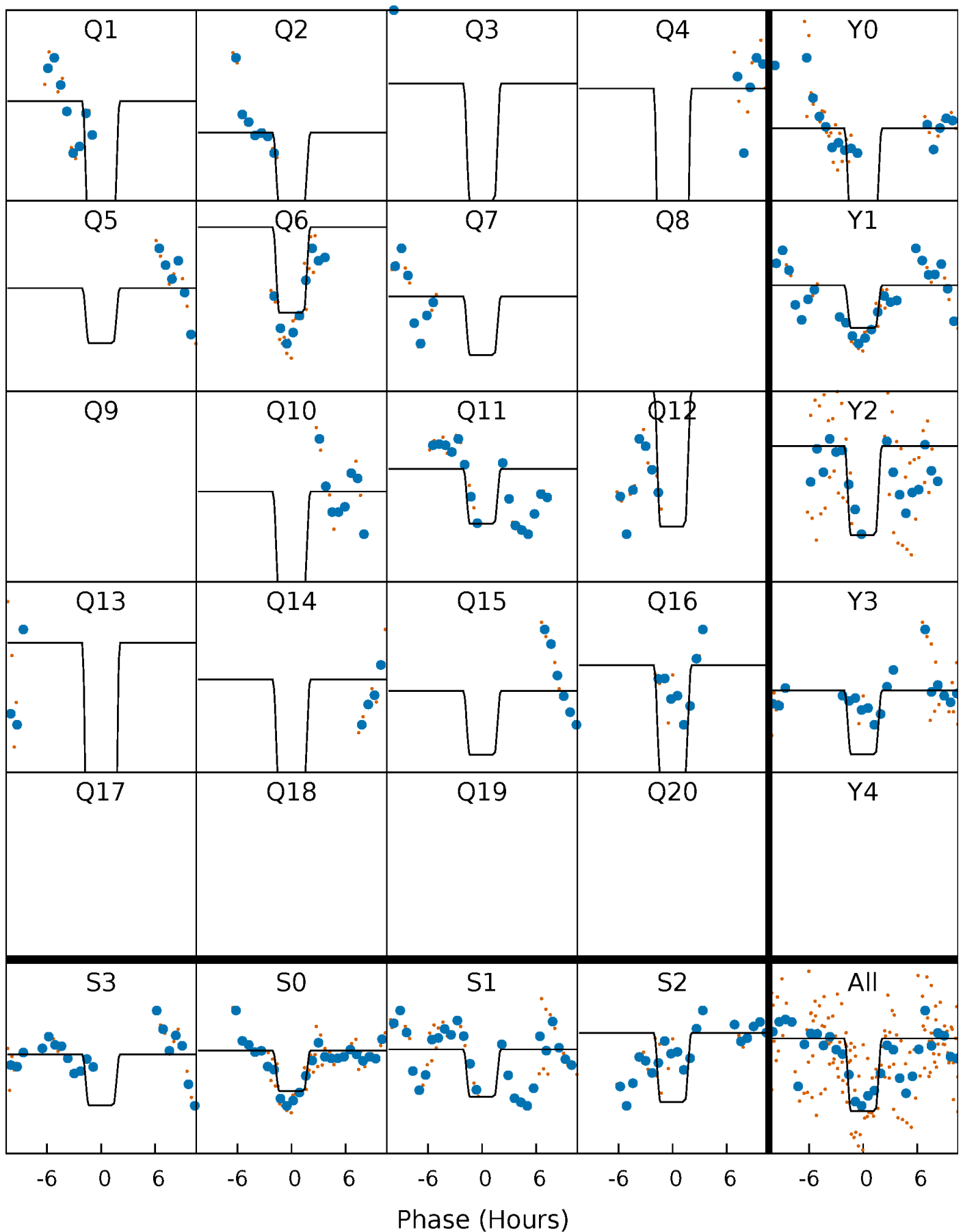
DV Quarter-Phased Transit Curves

TCE 005467126-08 P= 58.514198 Days $T_0=139.319529$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

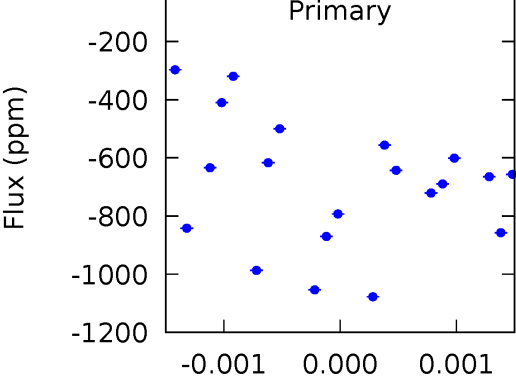
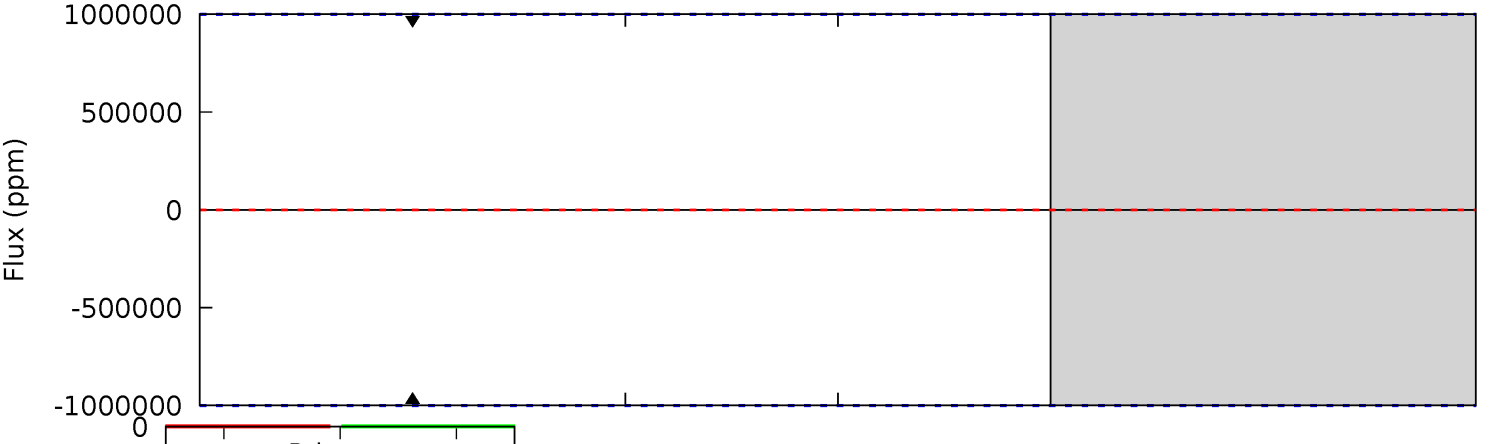
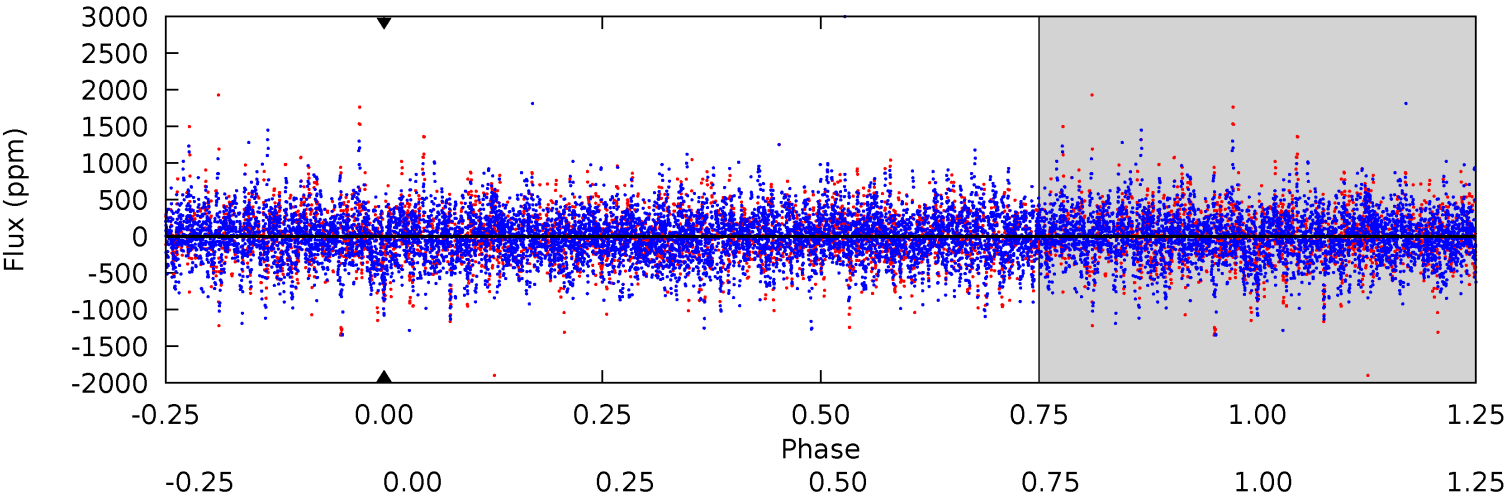
TCE 005467126-08 P= 58.514198 Days $T_0=139.333512$ (BKJD)



DV Model-Shift Uniqueness Test

005467126-08, P = 58.514198 Days, E = 80.805331 Days

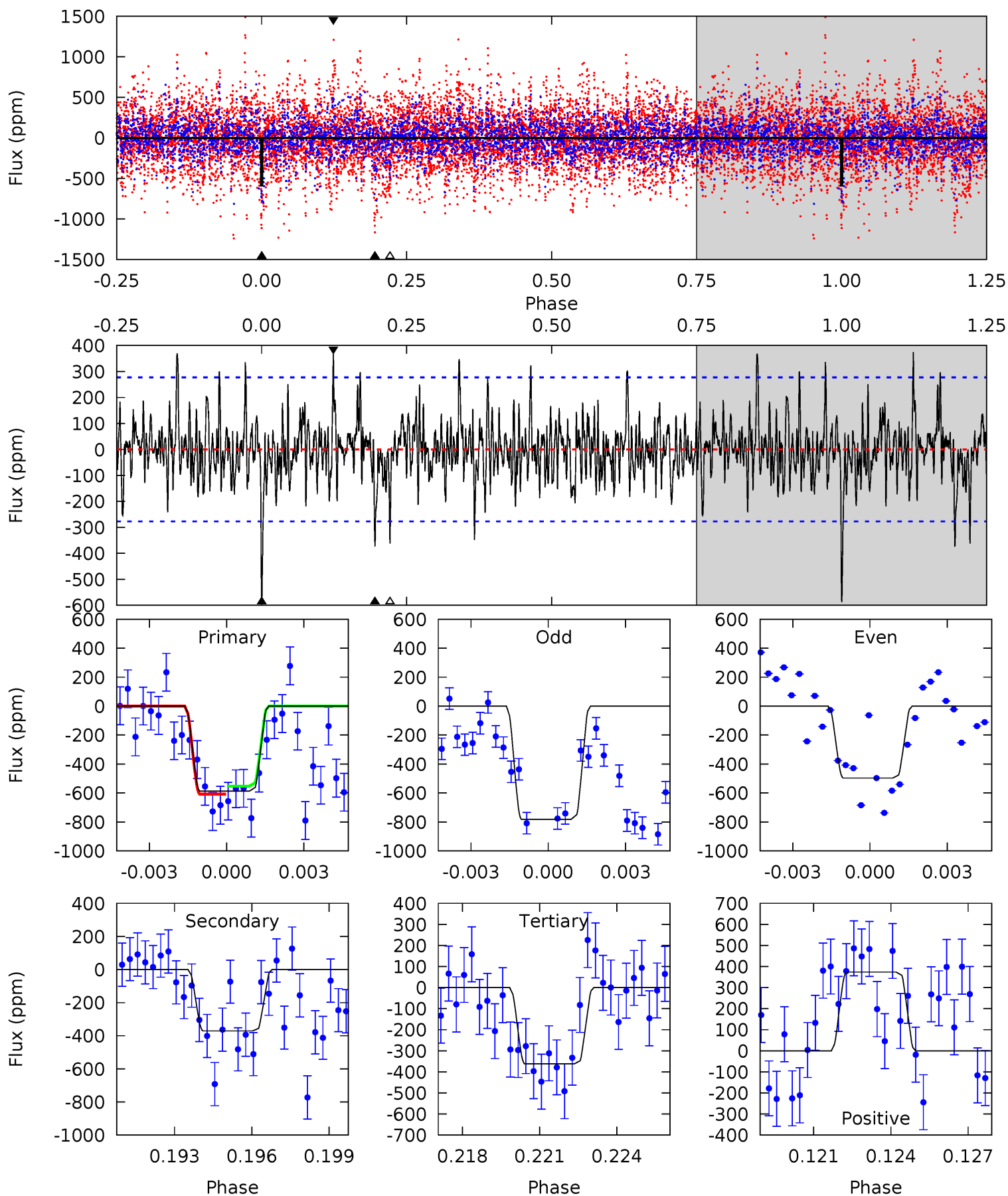
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005467126-08, P = 58.514198 Days, E = 80.819314 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	7.05	6.89	7.11	5.27	2.99	1.84	4.26	4.04	0.16	-0.05	2.59	0.92	0.39	0.50



Stellar Parameters For KIC 005467126

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	4878^{+57}_{-94}	$2.745^{+0.195}_{-0.105}$	$0.000^{+0.150}_{-0.200}$	$10.154^{+2.818}_{-3.757}$	$2.093^{+0.731}_{-0.894}$	$0.003^{+0.004}_{-0.001}$
	+1%/-2%	+7%/-4%	+inf%/-inf%	+28%/-37%	+35%/-43%	+138%/-38%
Source	SPE74	SPE74	SPE74	DSEP		

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

Secondary Eclipse Parameters for KIC 005467126-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$78.70^{+82.97}_{-56.54}$	1533^{+88}_{-109}	-3530^{+19301}_{-9824}	$-11.362^{+2453.687}_{-2050.415}$
Alt.	-371 ± 53	$85.72^{+86.92}_{-58.39}$	1539^{+87}_{-99}	2964^{+1305}_{-557}	$3.883^{+32.649}_{-2.870}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

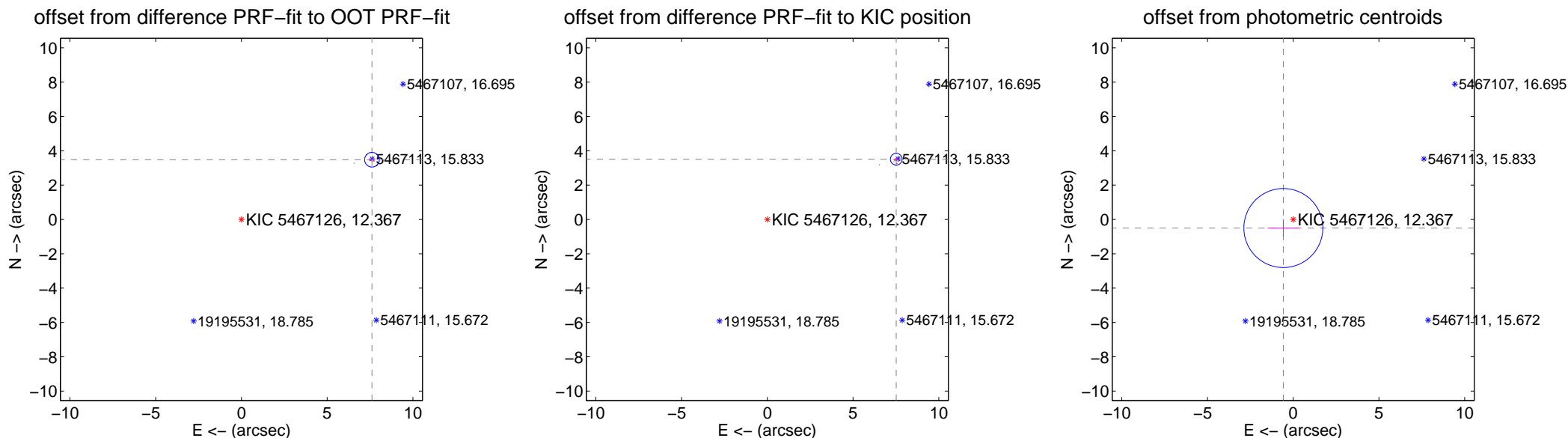
DV Centroid Data

Supplemental centroid analysis for 005467126-08. Kepler magnitude: 12.37. Transit SNR -1.00

There are 4 quarters with good PRF difference image offsets

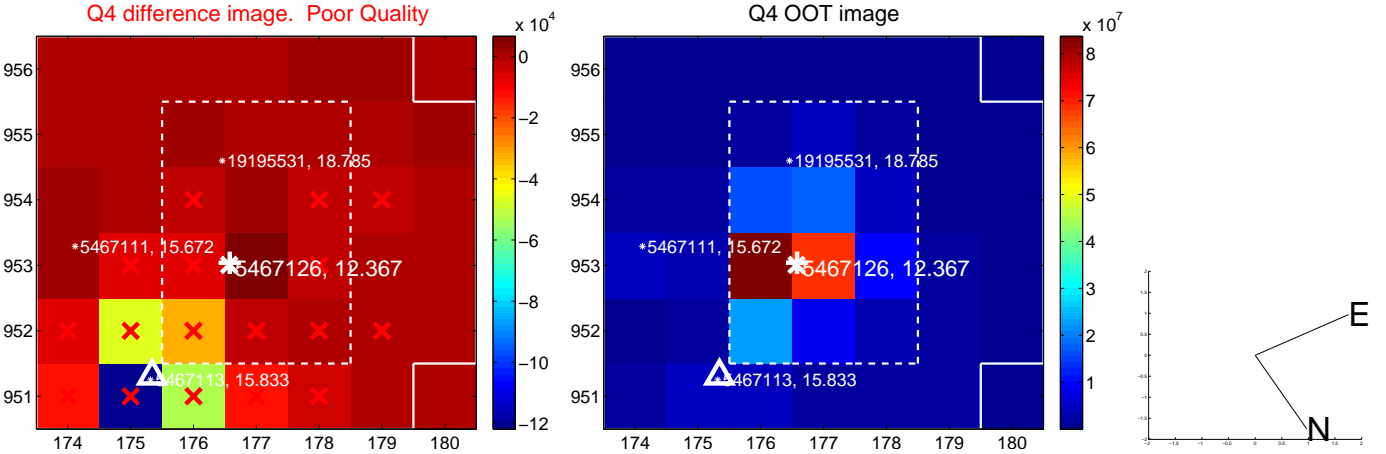
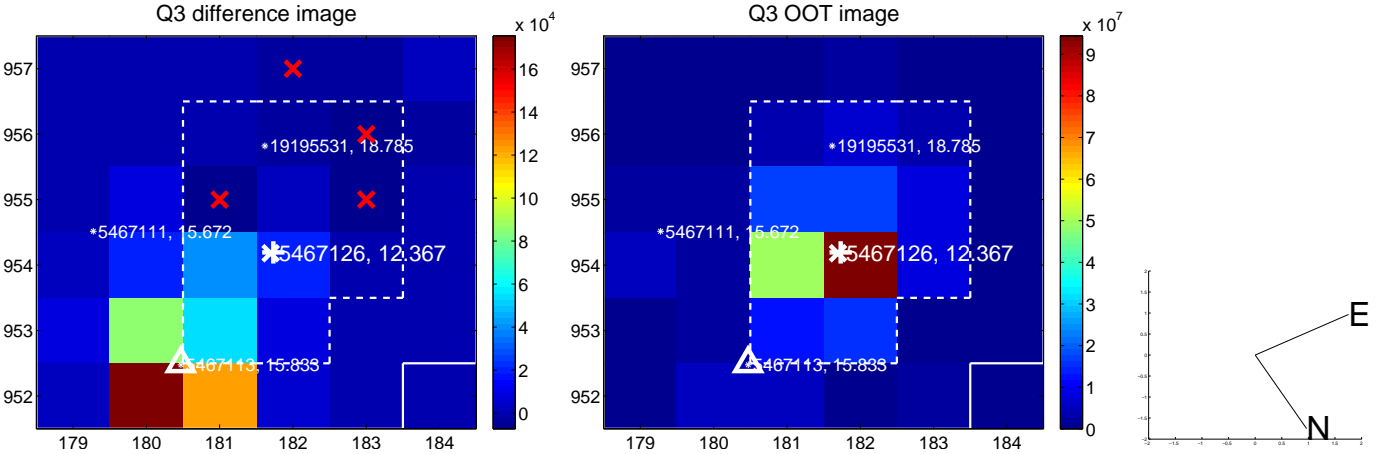
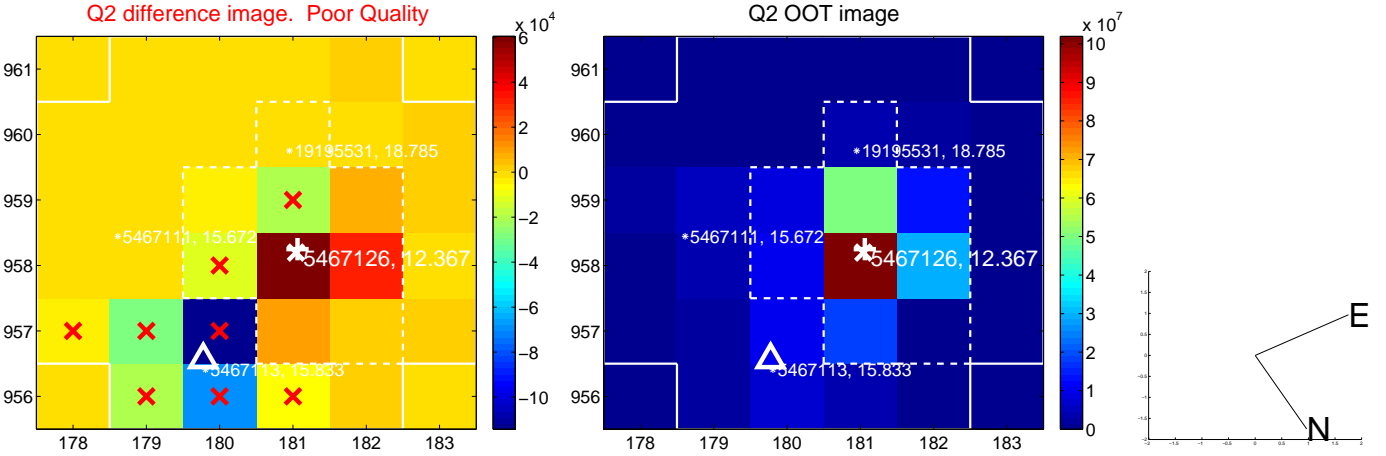
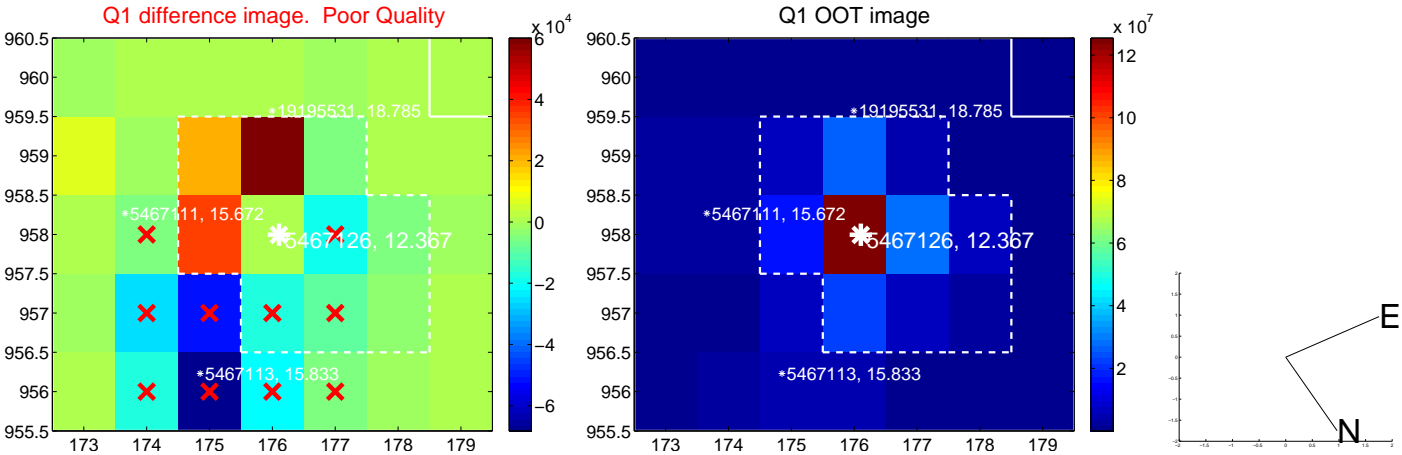
The direct PRF centroid is offset from the target star catalog position by about 0.13 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.367 \pm 0.143	58.65	-7.610 \pm 0.136	3.479 \pm 0.085
PRF-fit source offset from KIC position	8.296 \pm 0.114	72.79	-7.517 \pm 0.108	3.510 \pm 0.081
photometric centroid source offset	0.76 \pm 0.77	0.99	0.58 \pm 0.92	-0.50 \pm 0.50

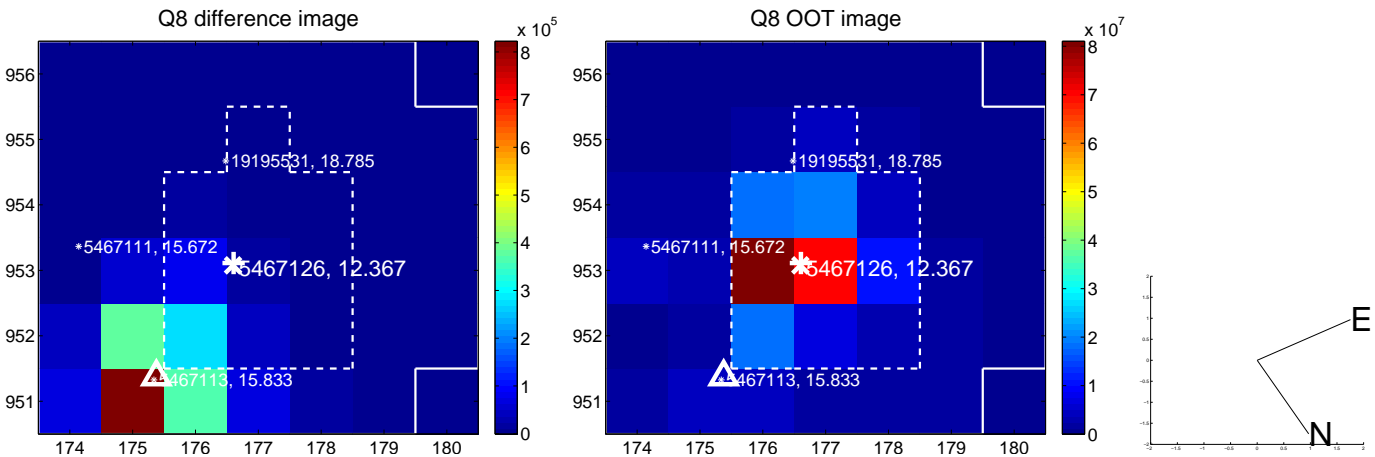
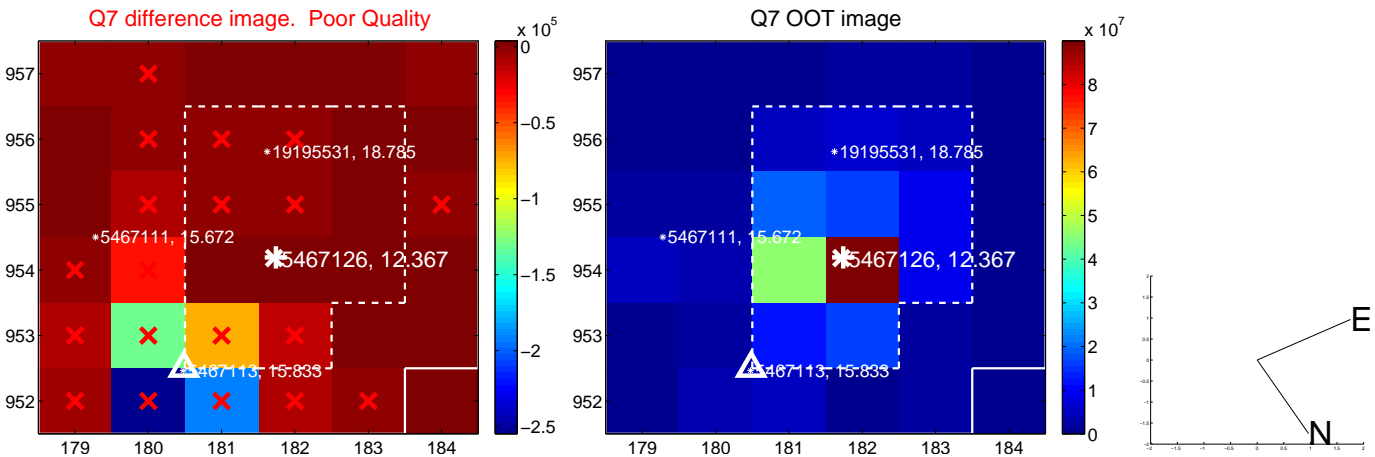
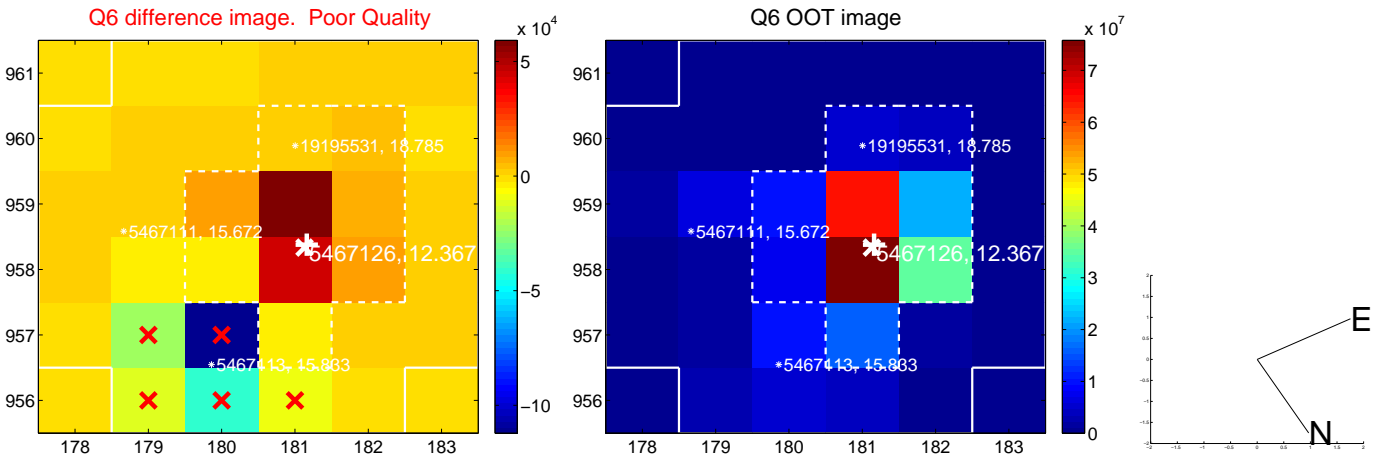
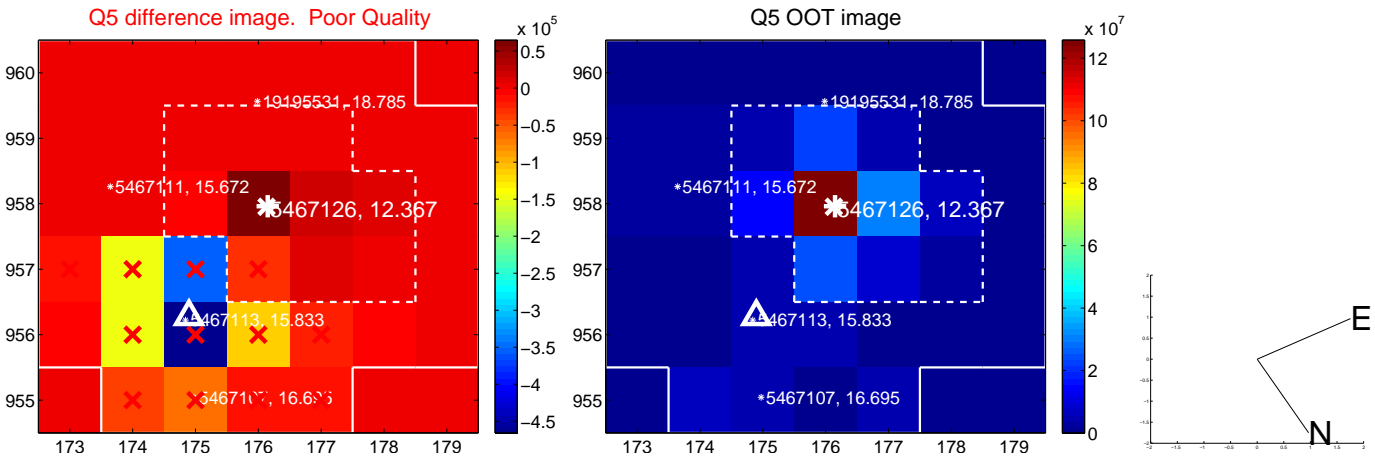


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

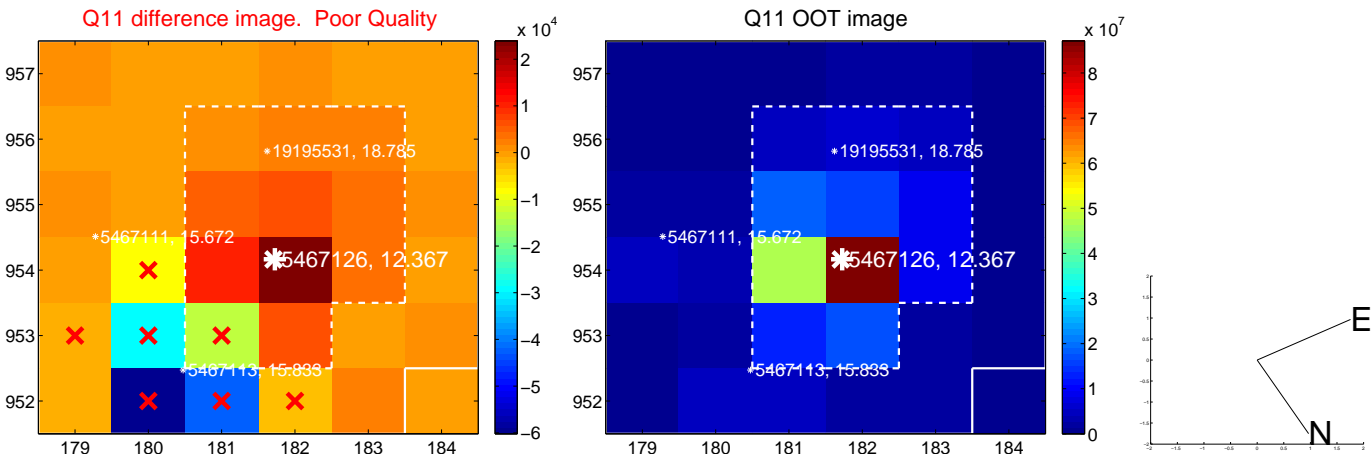
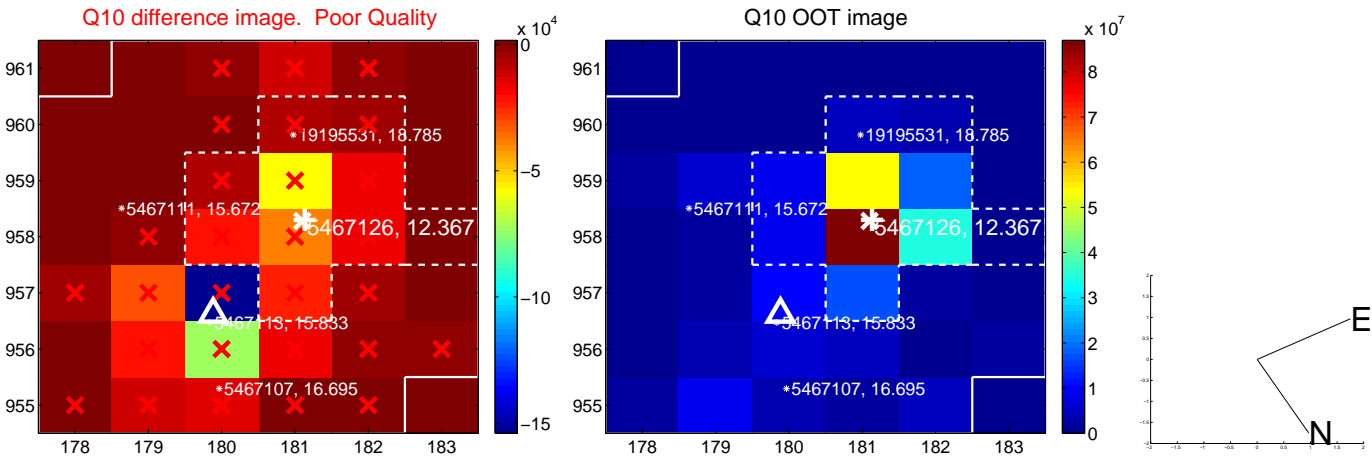
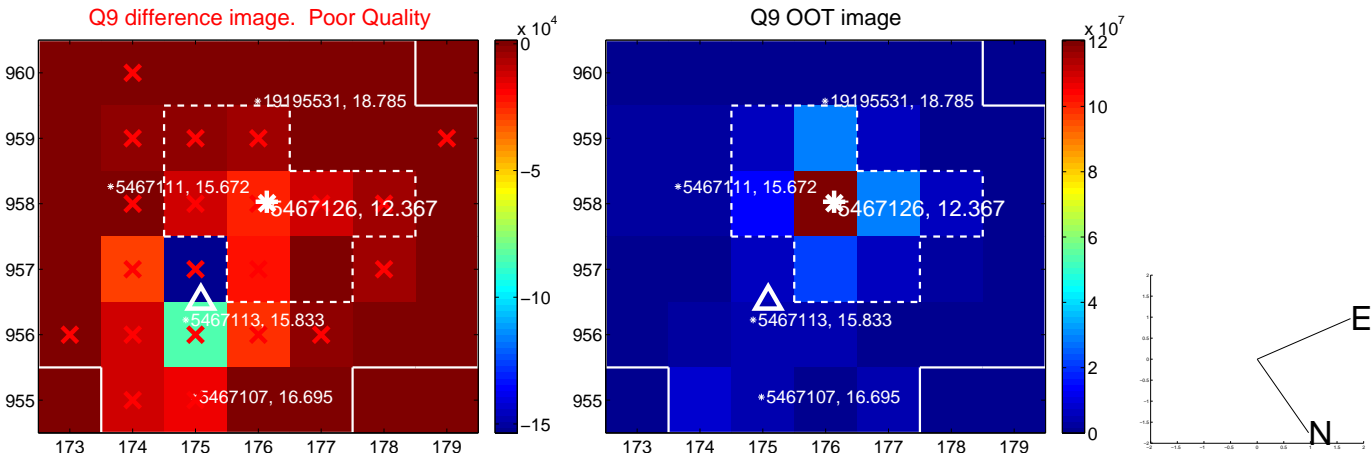
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



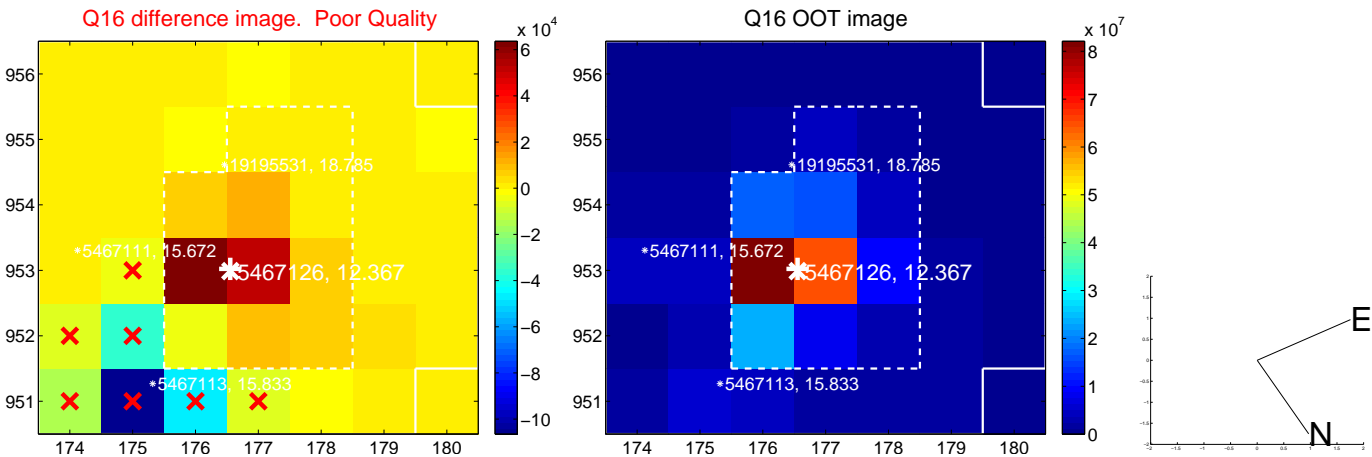
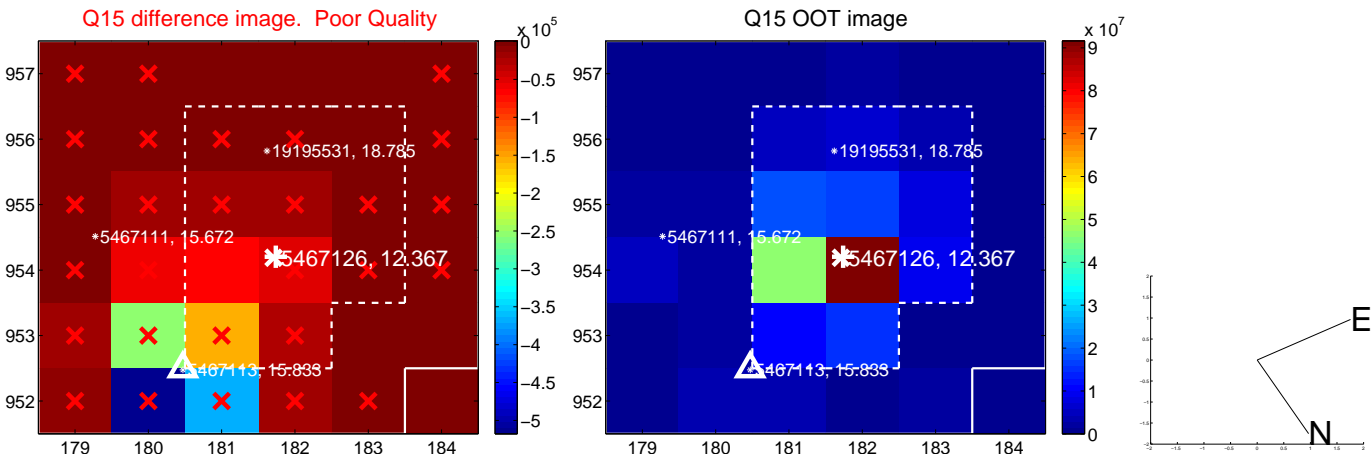
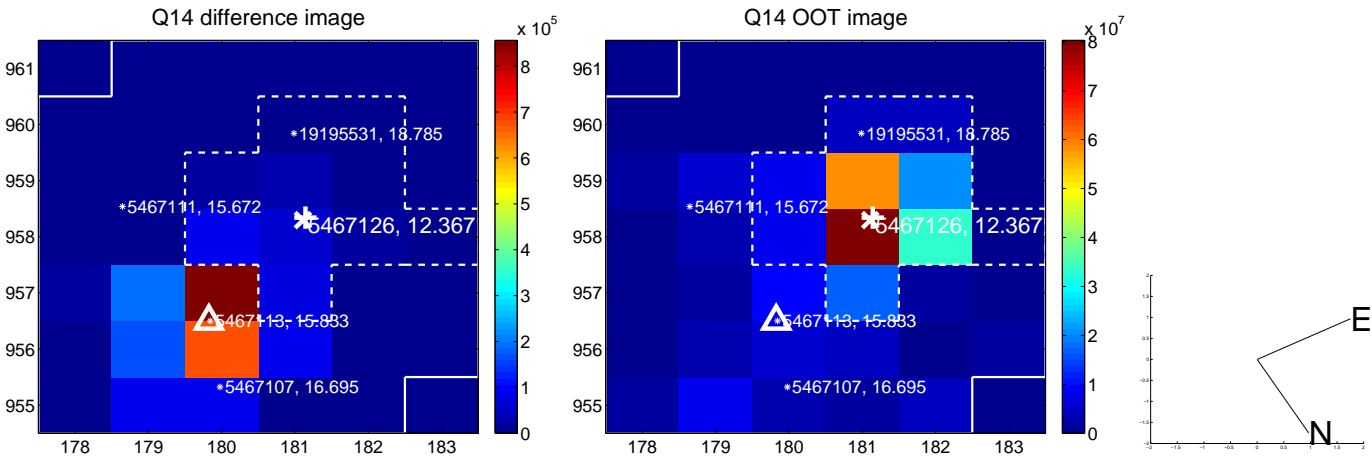
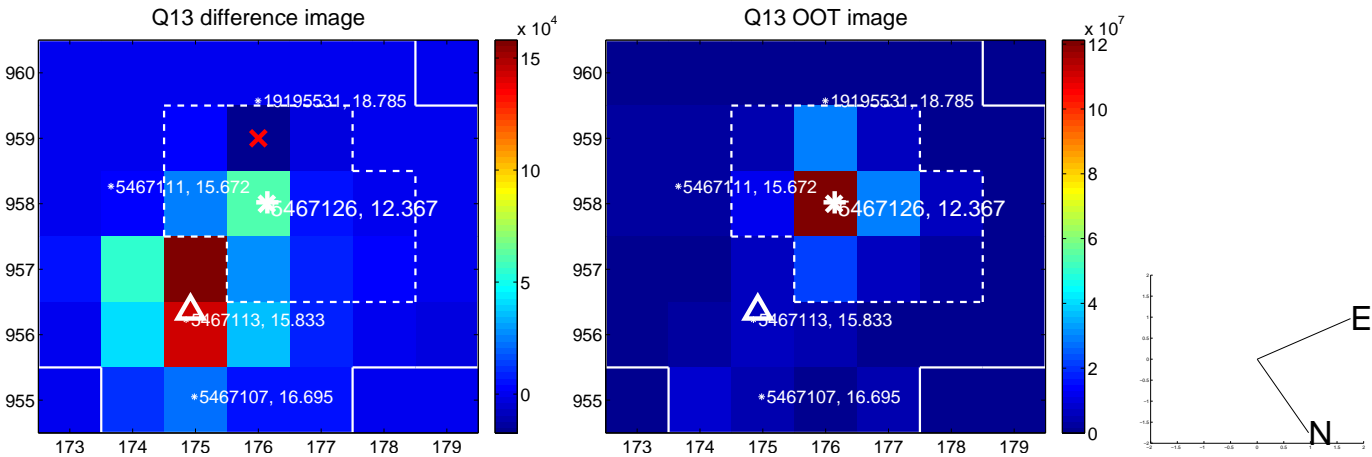
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



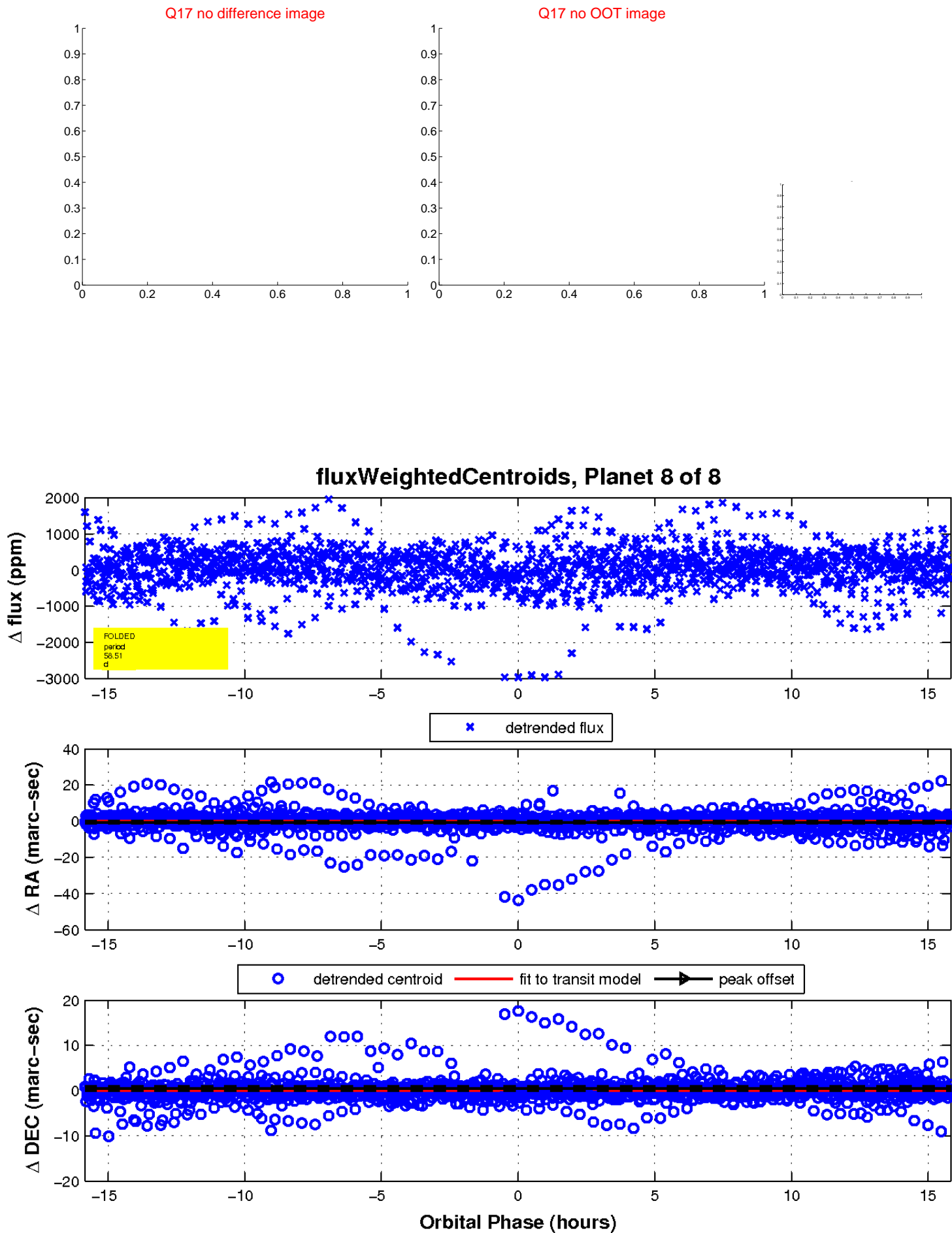
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

