

KIC 005467531

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})
005467531-01	OBS	No	4.884931	135.798201	0.1	4.095	9.3	0.0	1.20	6937	0.04	825.55
005467531-02	OBS	No	4.882484	135.349098	171.4	5.000	9.9	-1.0	1.20	6937	1.59	826.10
005467531-03	OBS	No	1.278655	132.565172	17.9	5.086	8.5	6.0	1.20	6937	0.59	4930.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467531-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005467531-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS
005467531-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

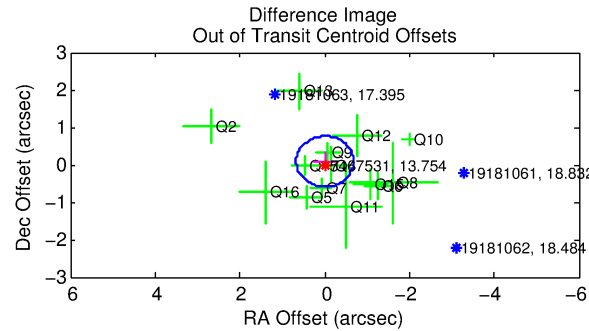
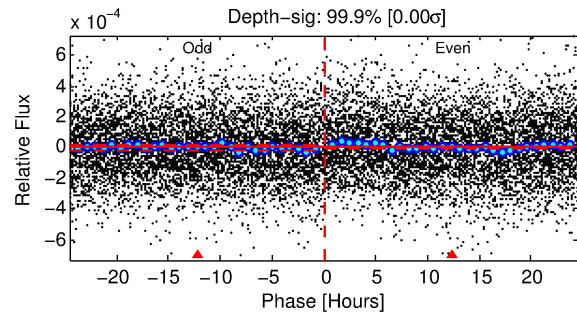
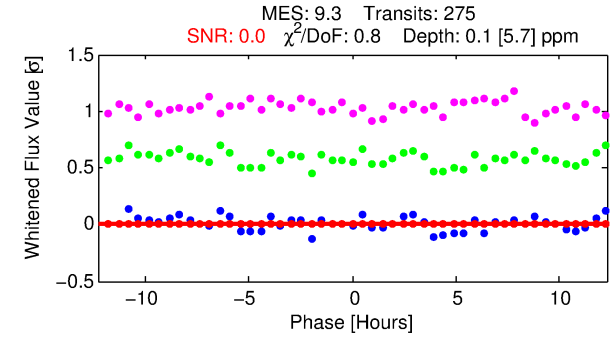
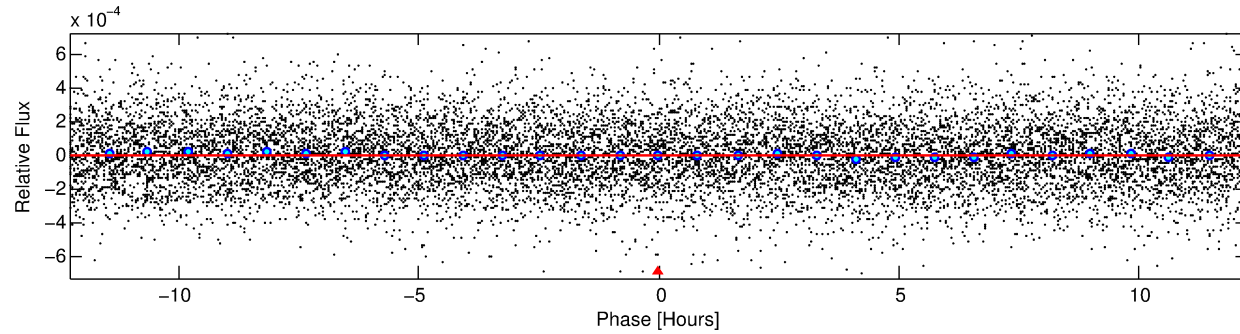
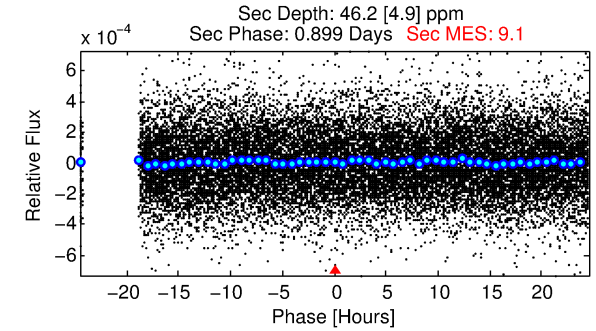
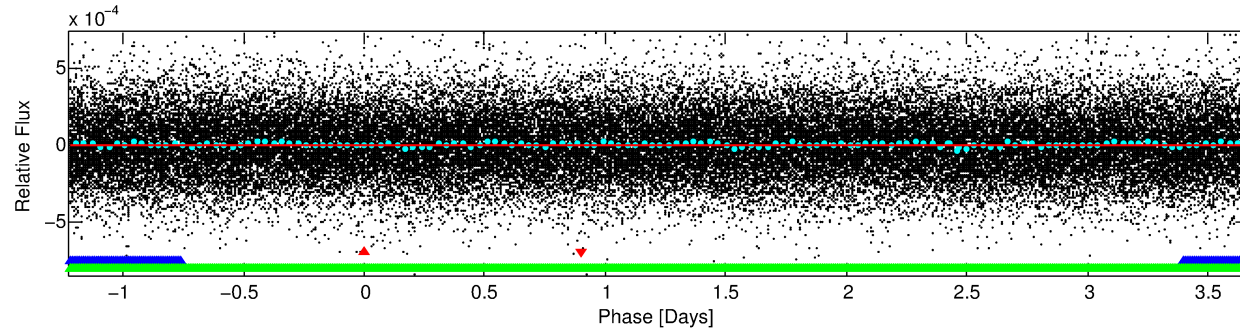
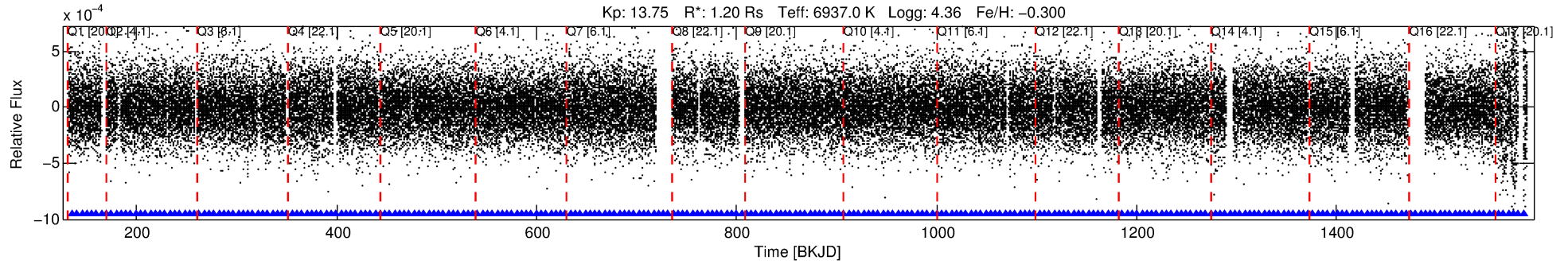
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005467531-01

No Significant Match Found

DV One-Page Summary

KIC: 5467531 Candidate: 1 of 3 Period: 4.885 d



DV Fit Results:

Period = 4.88493 [0.02721] d
Epoch = 135.7982 [3.7528] BKJD
Rp/R* = 0.0003 [0.0107]
a/R* = 4.92 [107.51]
b = 0.85 [7.75]
Seff = 825.55 [362.06]
Teq = 1367 [150] K
Rp = 0.04 [1.39] Re
a = 0.0601 [0.0173] AU
Ag = 64024.15 [4718039.11] [0.01σ]
Teffp = 33615 [619298] K [0.05σ]

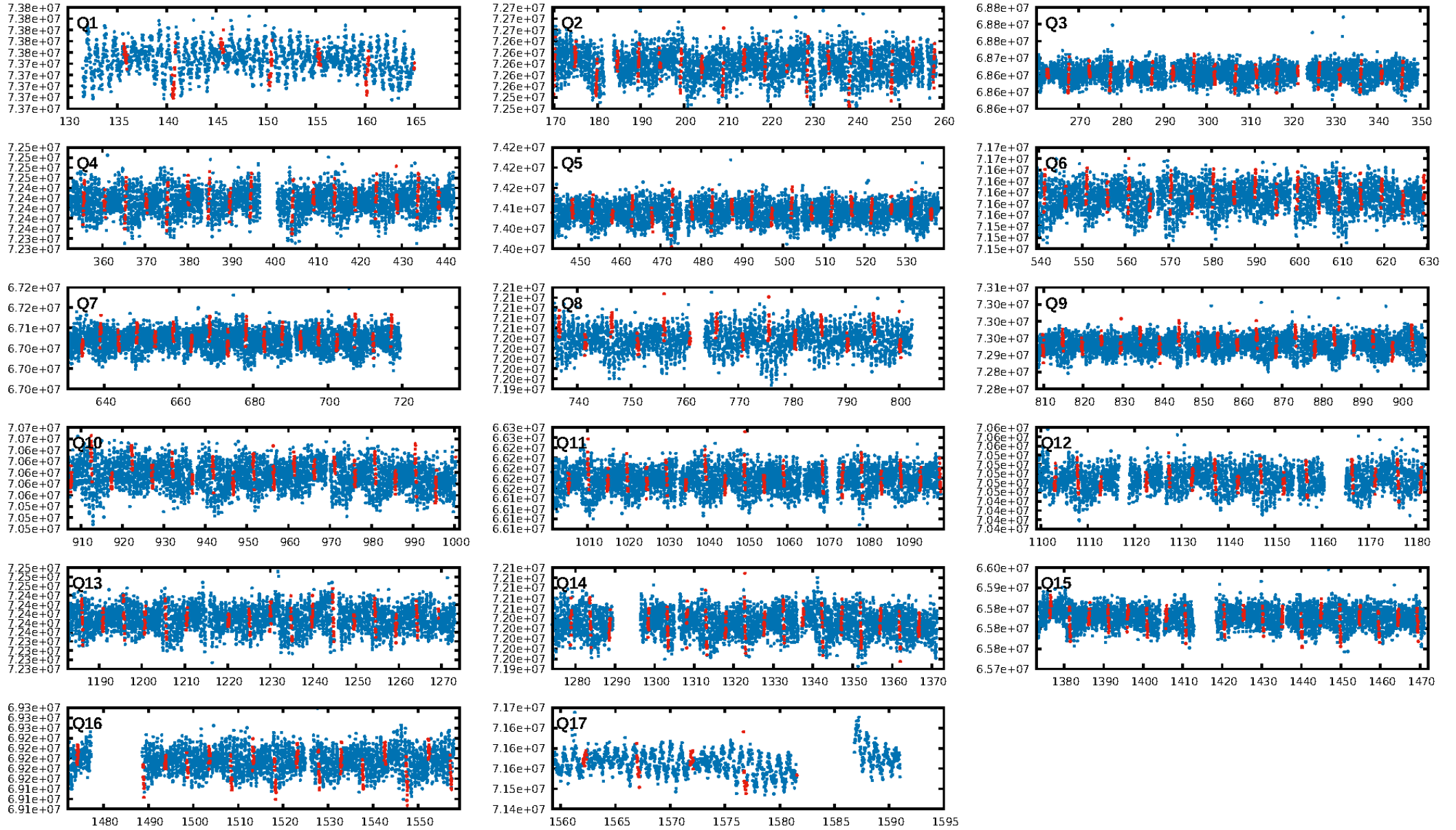
DV Diagnostic Results:

ShortPeriod-sig: 0.7% [0.01σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.09e-15
RollingBand-fgt: 1.00 [265/265]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.087 arcsec [0.39σ]
KicOffset-rm: 0.078 arcsec [0.26σ]
OotOffset-st: 3/3/4/4 [14]
KicOffset-st: 3/3/4/4 [14]
DiffImageQuality-fgm: 0.29 [4/14]
DiffImageOverlap-fno: 1.00 [17/17]

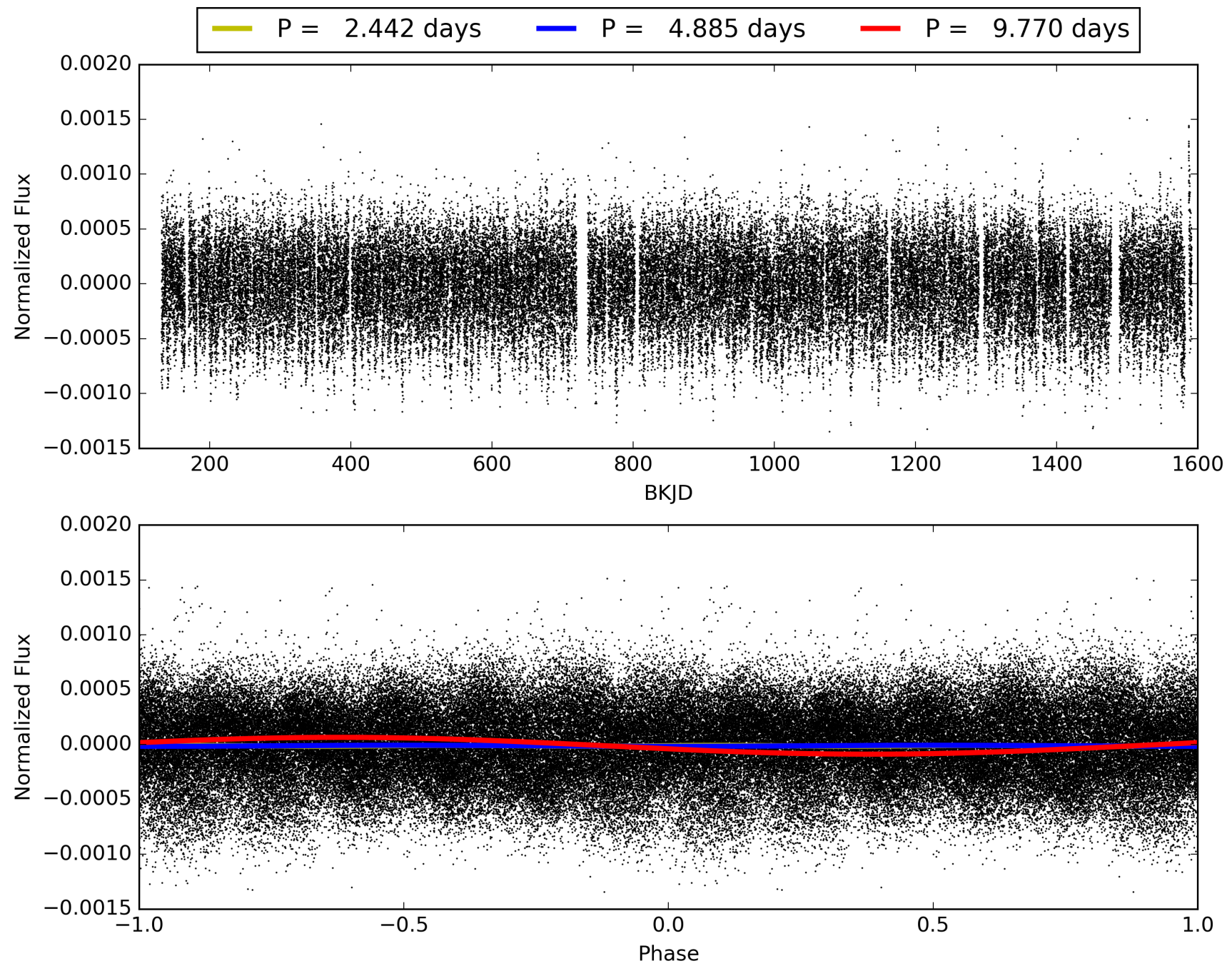
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:33:01 Z

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

TCE 005467531-01, PDC Light Curves

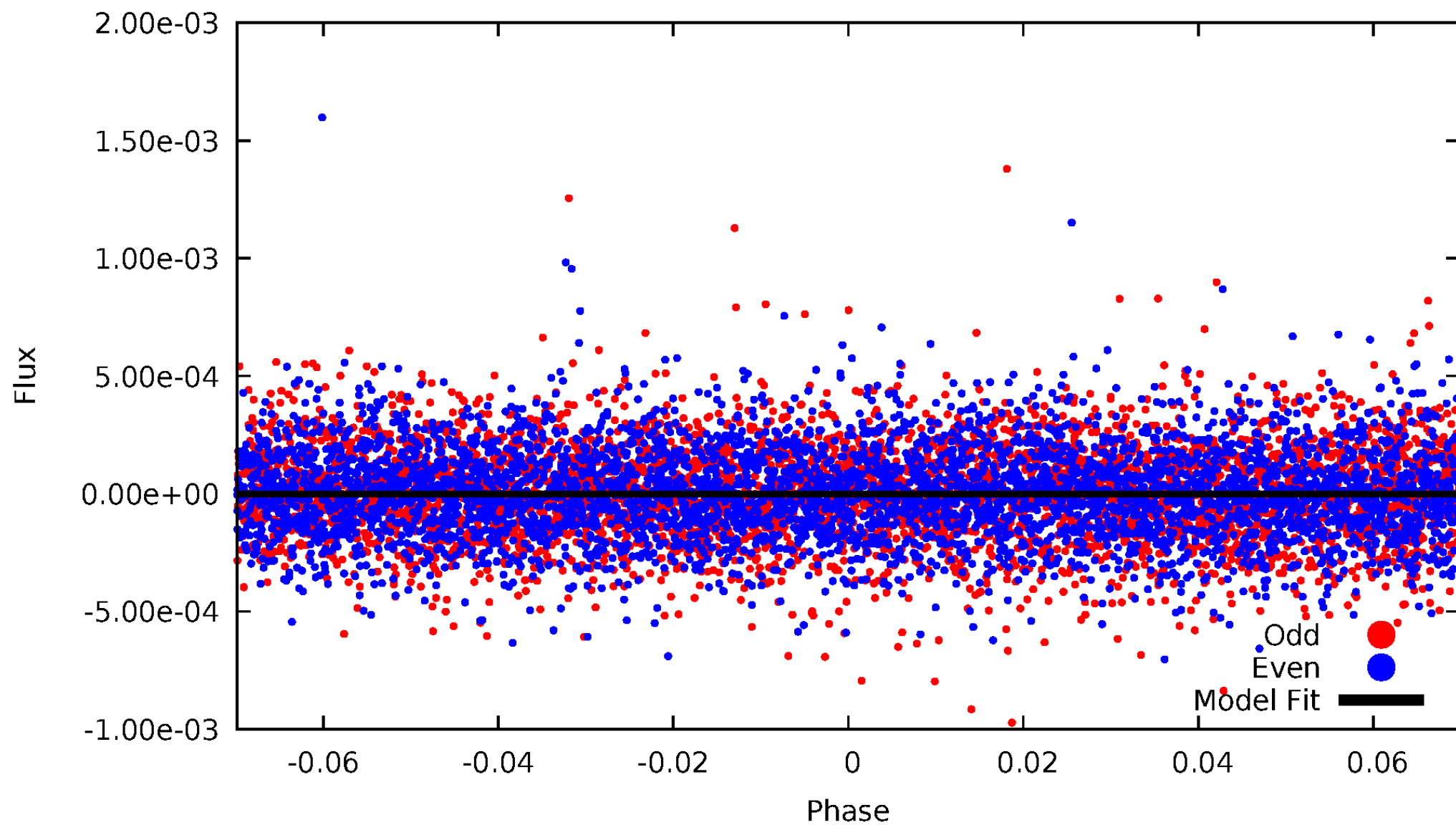


TCE 005467531-01



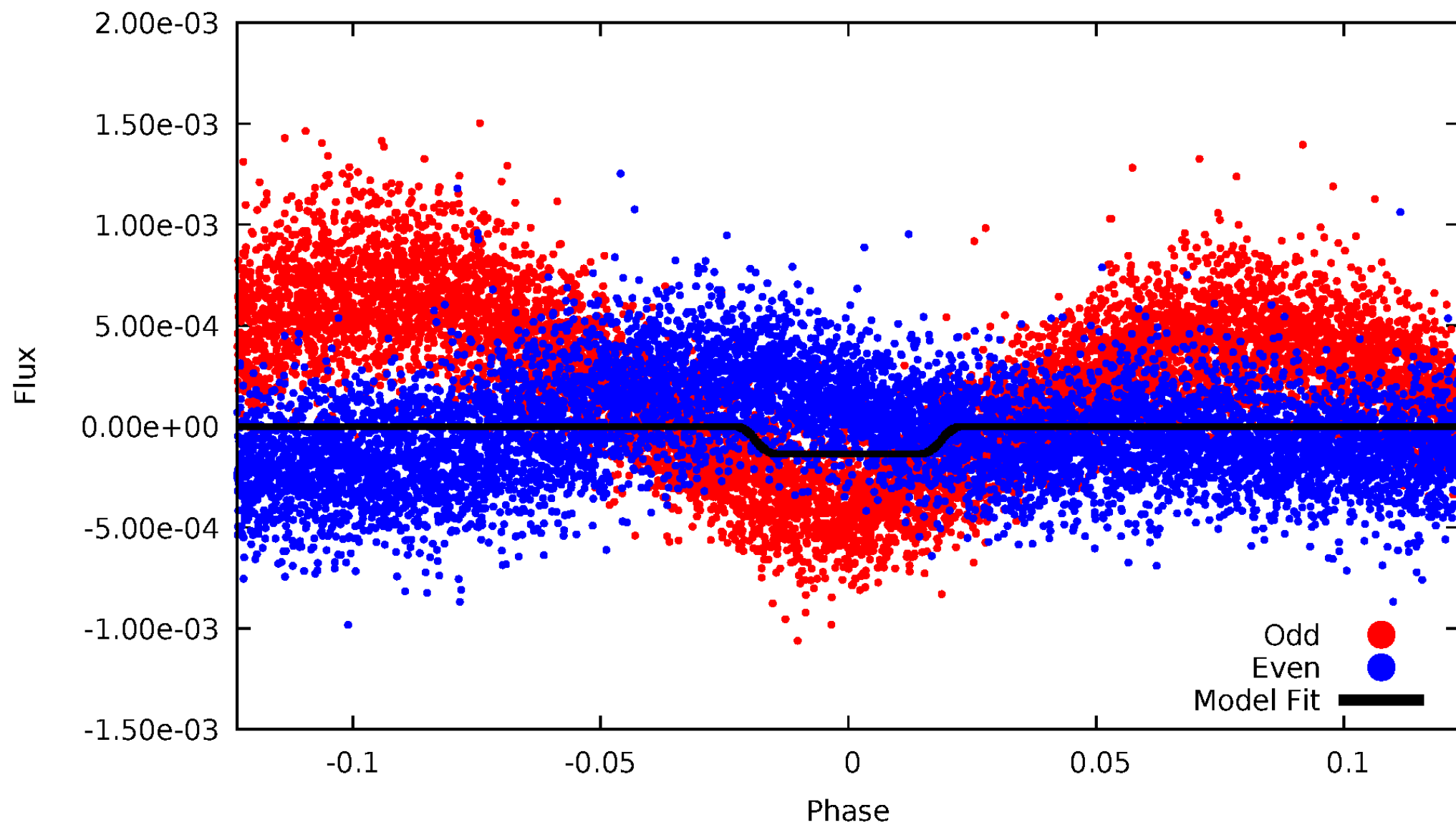
DV Odd/Even

TCE 005467531-01

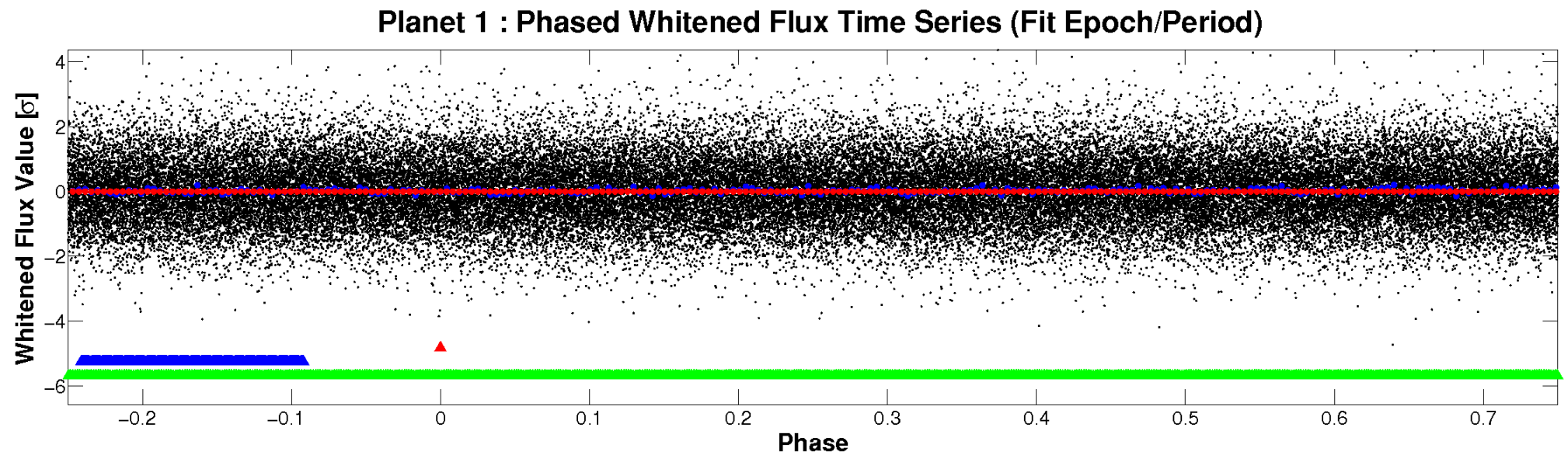
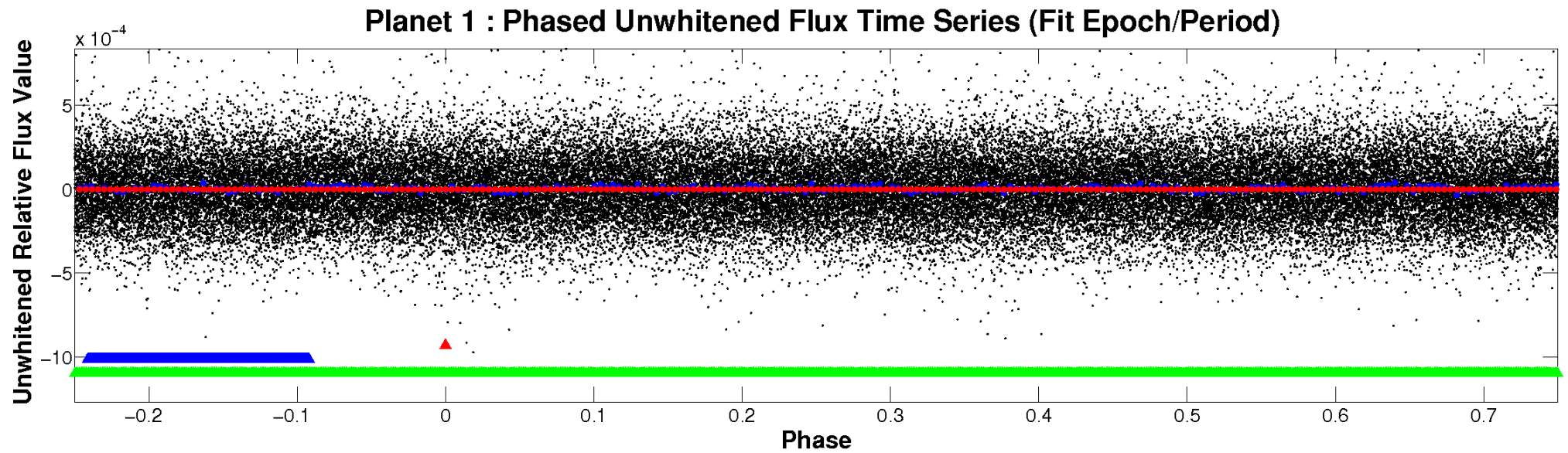


ALT Odd/Even

TCE 005467531-01

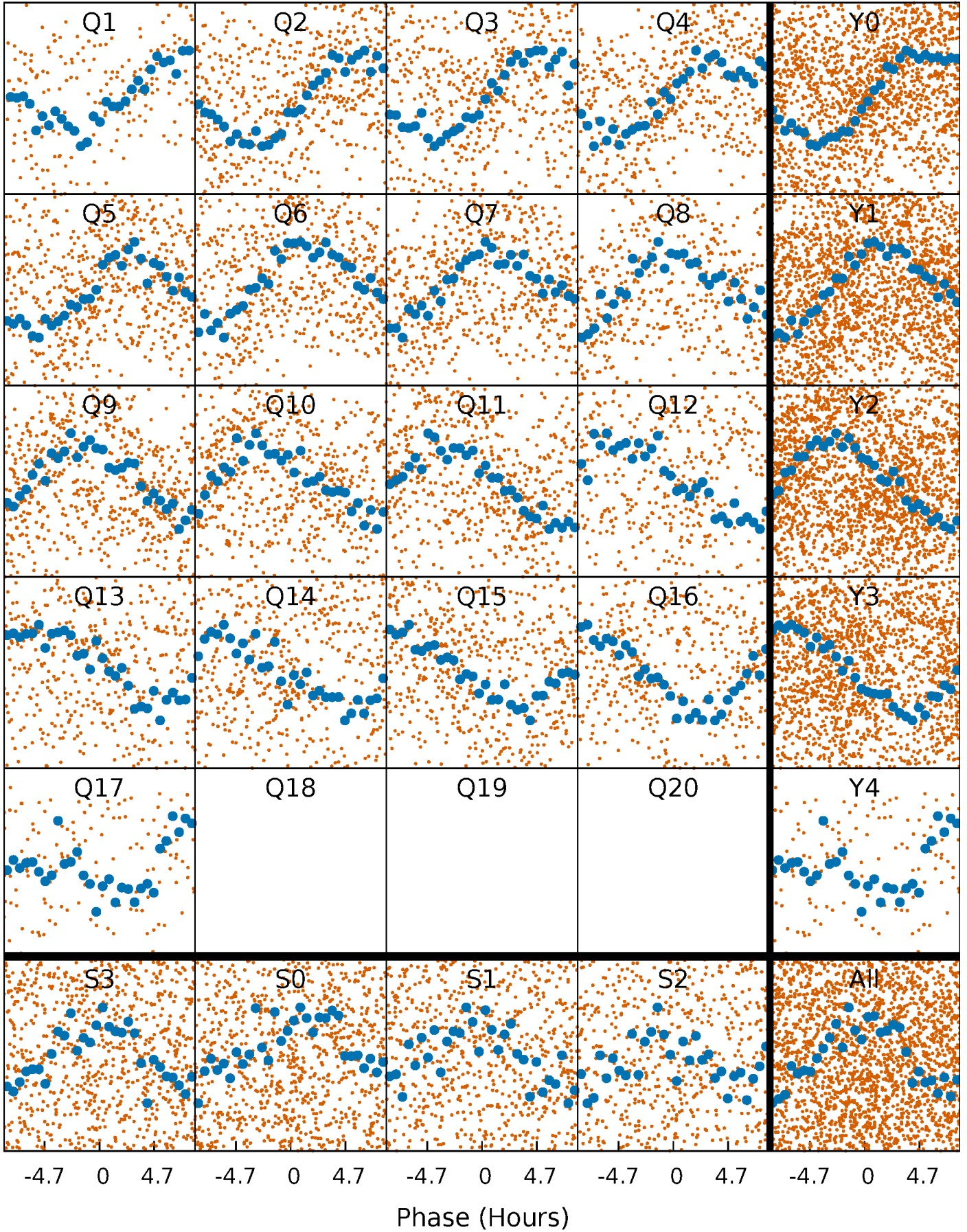


Non-Whitened Vs. Whitened Light Curve



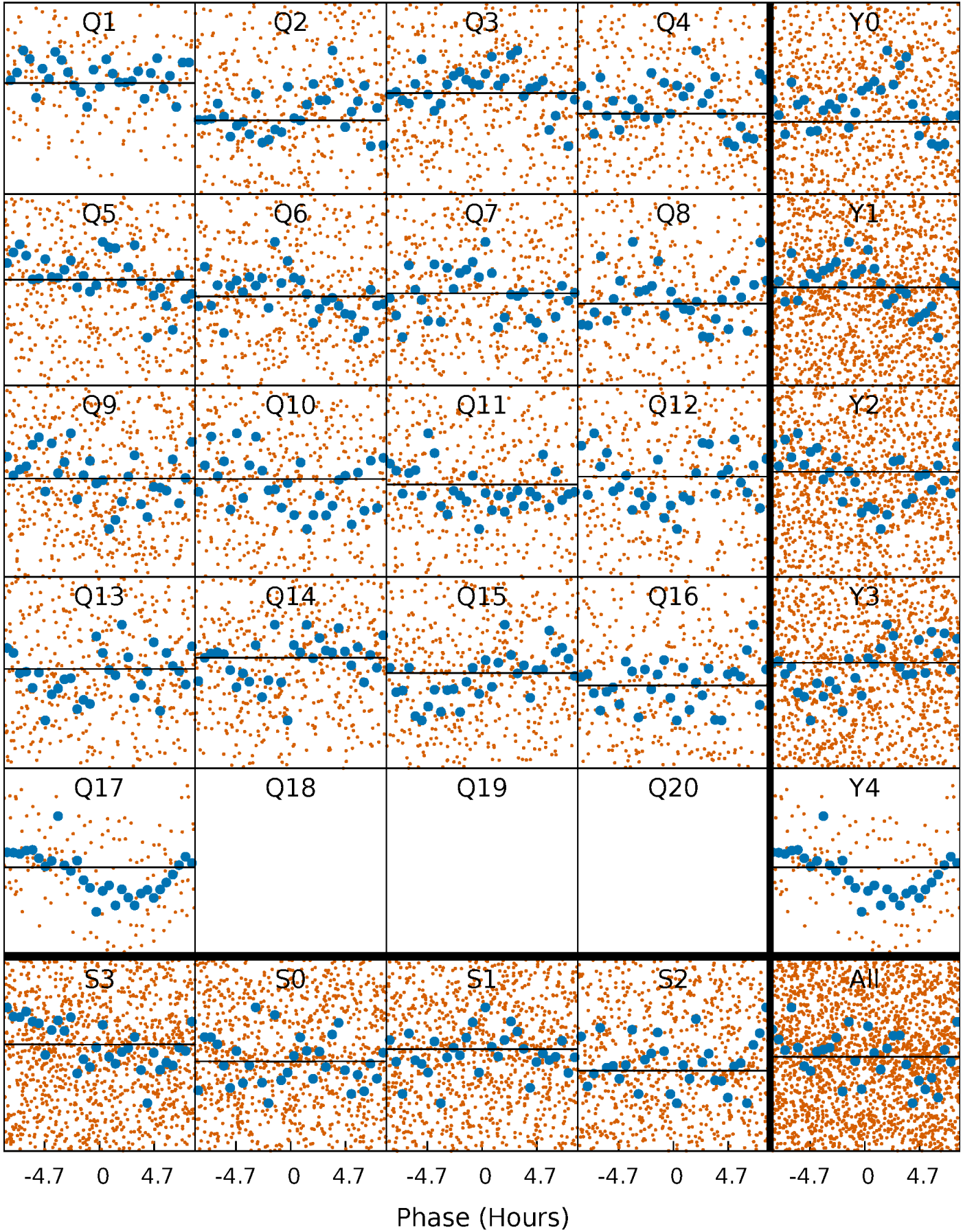
PDC Quarter-Phased Transit Curves

TCE 005467531-01 P= 4.884931 Days $T_0=135.798201$ (BKJD)



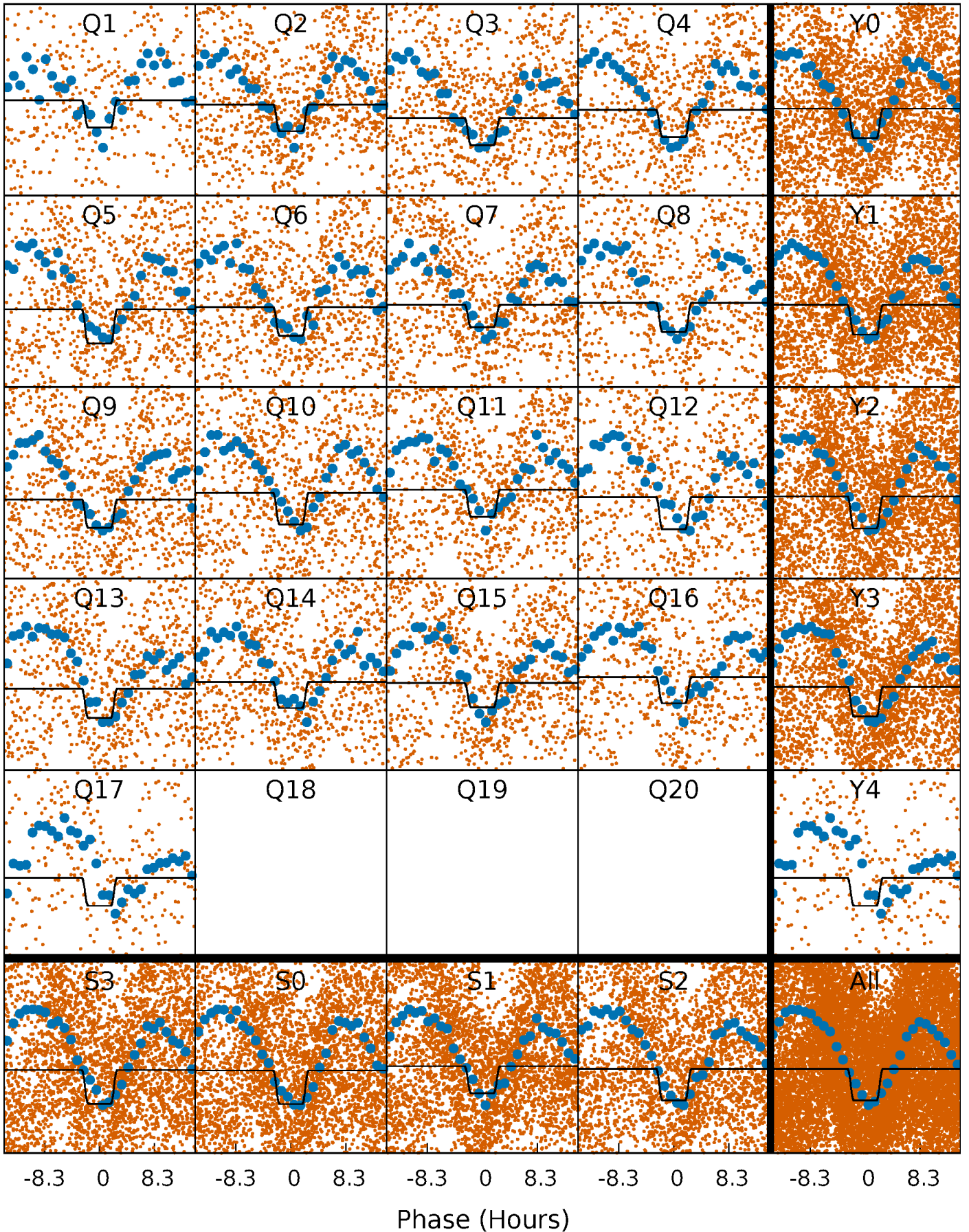
DV Quarter-Phased Transit Curves

TCE 005467531-01 P= 4.884931 Days $T_0=135.798201$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

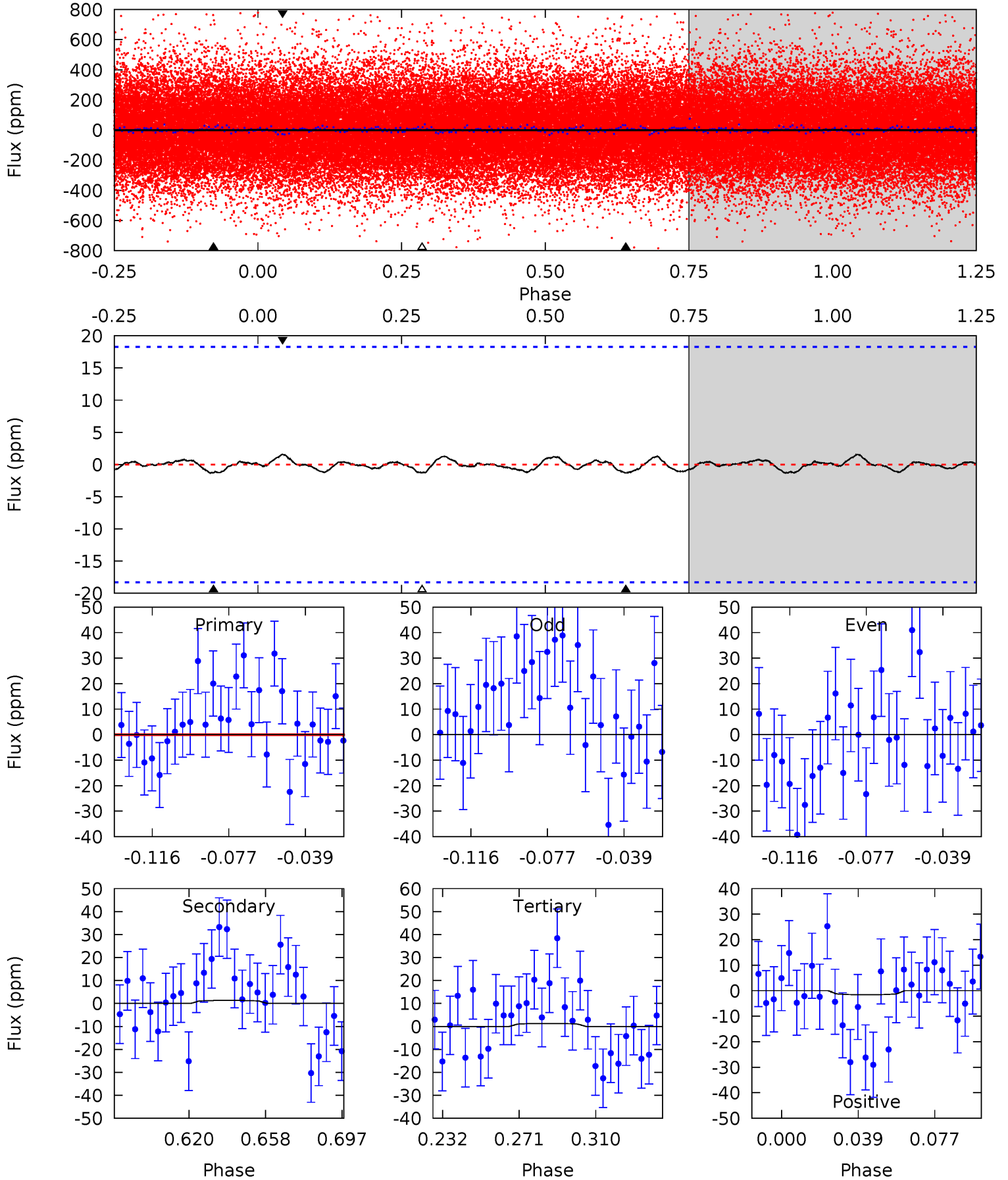
TCE 005467531-01 P= 4.882467 Days $T_0=135.728828$ (BKJD)



DV Model-Shift Uniqueness Test

005467531-01, P = 4.884931 Days, E = 130.913270 Days

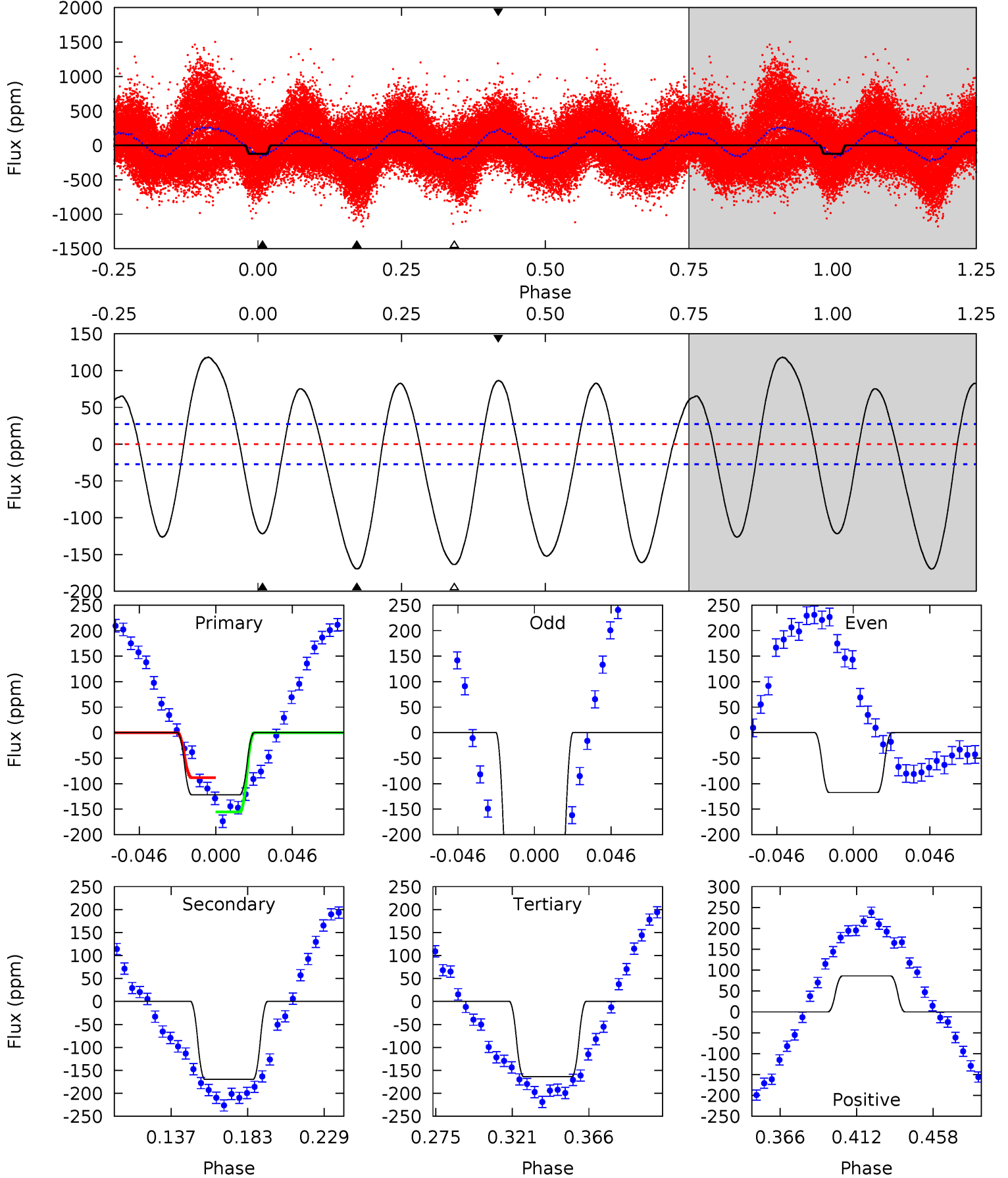
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.33	0.34	0.34	0.41	4.76	2.07	0.16	-0.00	-0.07	0.01	-0.06	0.03	0.25	0.54	0.23



Alt Model-Shift Uniqueness Test

005467531-01, P = 4.882467 Days, E = 130.846361 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.0	29.3	28.3	14.9	4.73	2.00	14.7	-7.25	6.13	1.05	14.4	20.8	0.82	0.41	5.70



Stellar Parameters For KIC 005467531

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6937^{+191}_{-286}	$4.364^{+0.054}_{-0.216}$	$-0.300^{+0.250}_{-0.350}$	$1.198^{+0.422}_{-0.113}$	$1.229^{+0.198}_{-0.165}$	$1.008^{+0.294}_{-0.537}$
	+3%/-4%	+1%/-5%	+83%/-117%	+35%/-9%	+16%/-13%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005467531-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1 ± 4	$1.00^{+1.14}_{-0.67}$	1947^{+147}_{-112}	2926^{+2112}_{-6471}	$1.423^{+28.480}_{-5.420}$
Alt.	-170 ± 6	$1.96^{+1.34}_{-1.23}$	1953^{+146}_{-110}	6700^{+5934}_{-1546}	89^{+517}_{-58}

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 $A_{\text{obs}} \gg 1.0$

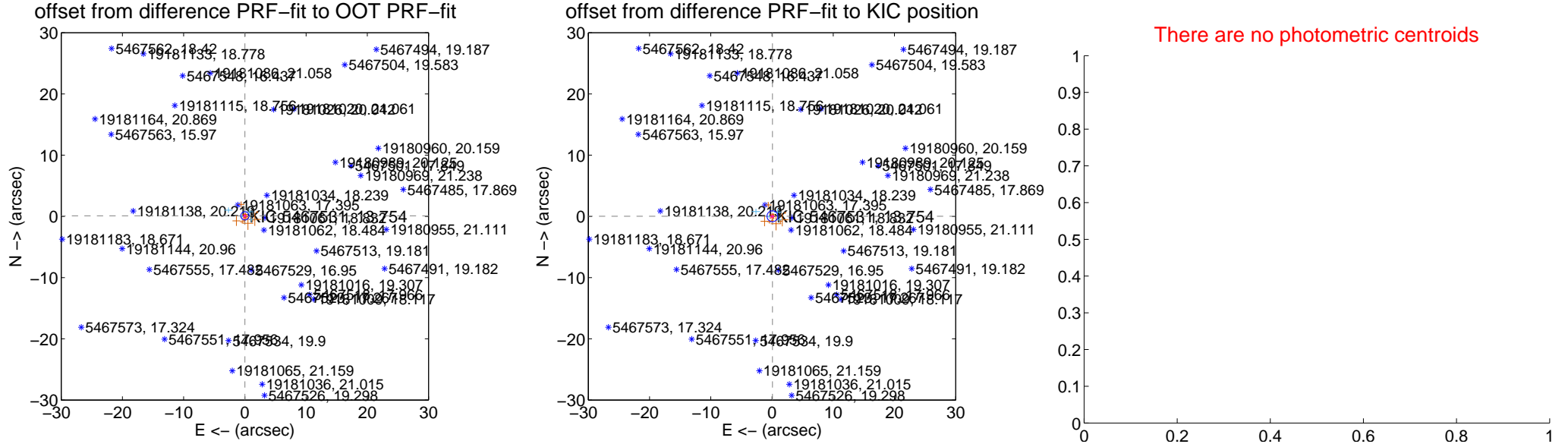
DV Centroid Data

Supplemental centroid analysis for 005467531-01. Kepler magnitude: 13.75. Transit SNR 0.01

There are 4 quarters with good PRF difference image offsets

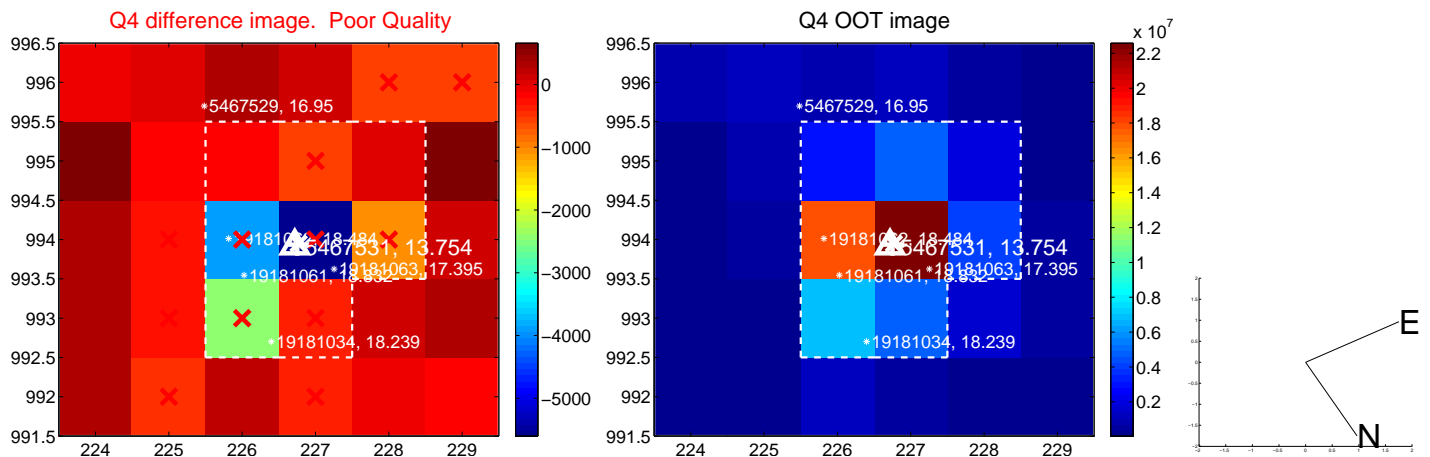
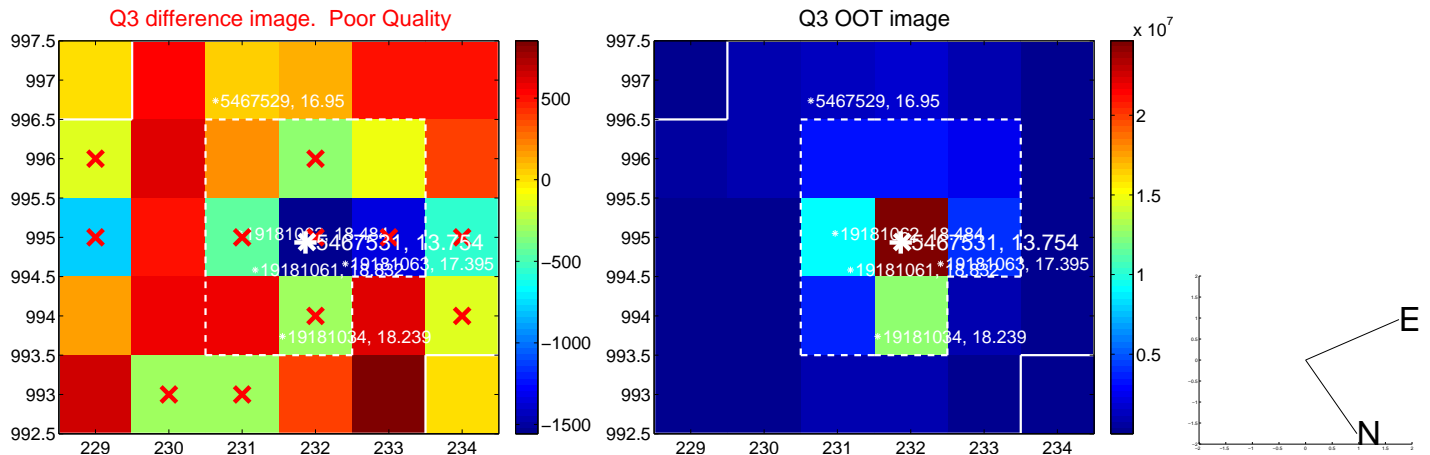
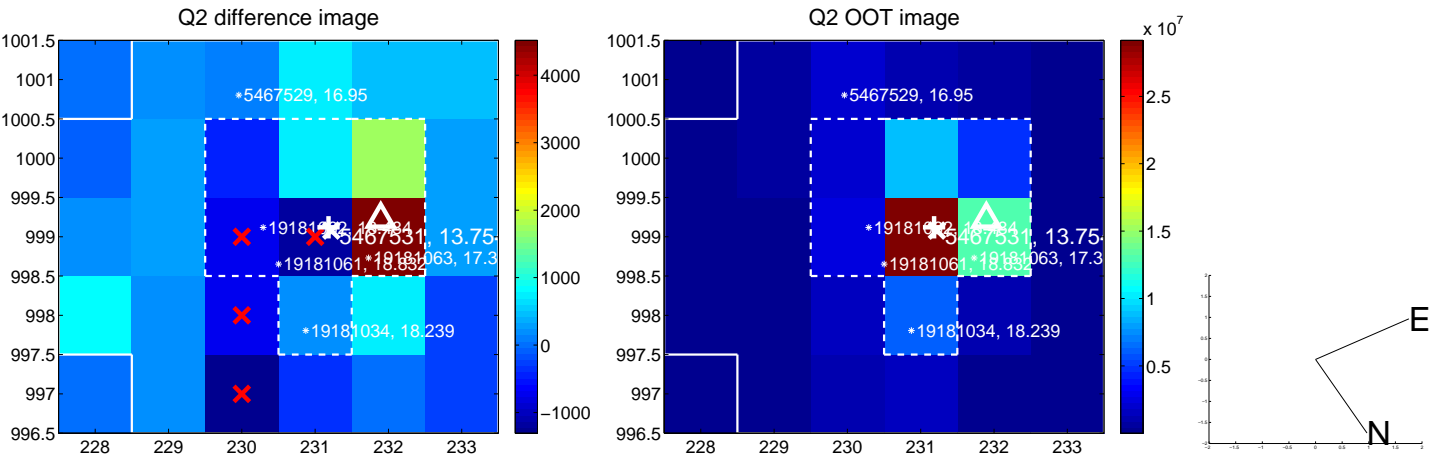
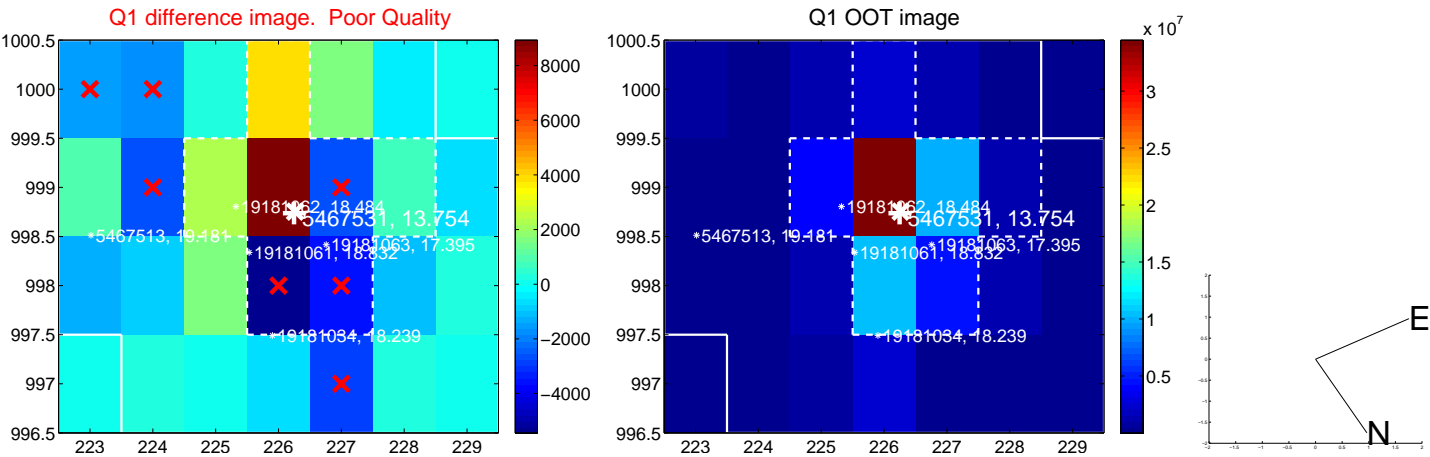
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.087 ± 0.225	0.39	-0.004 ± 0.230	0.087 ± 0.225
PRF-fit source offset from KIC position	0.078 ± 0.297	0.26	-0.075 ± 0.310	0.021 ± 0.210
photometric centroid source offset	—	—	—	—

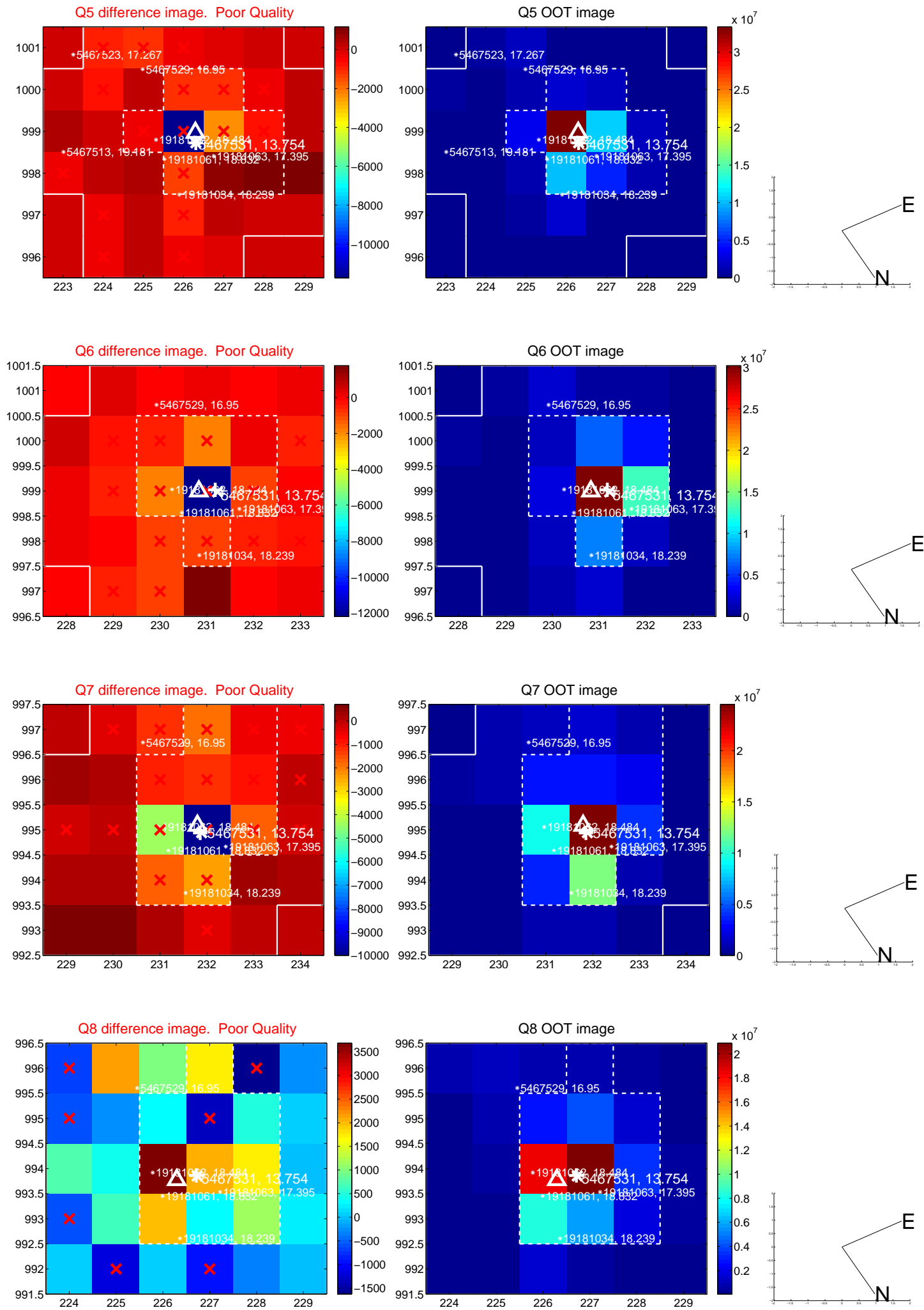


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

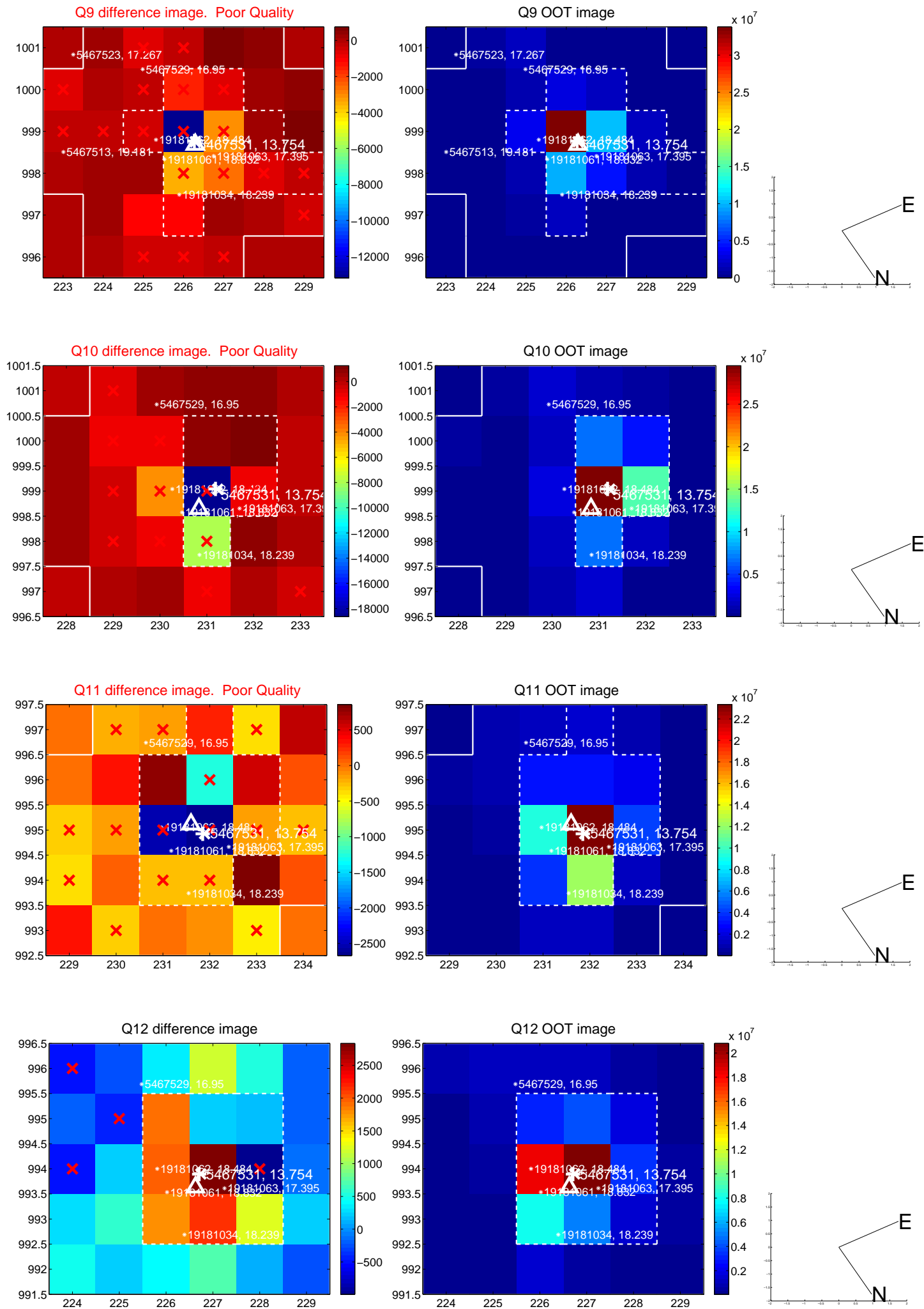
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



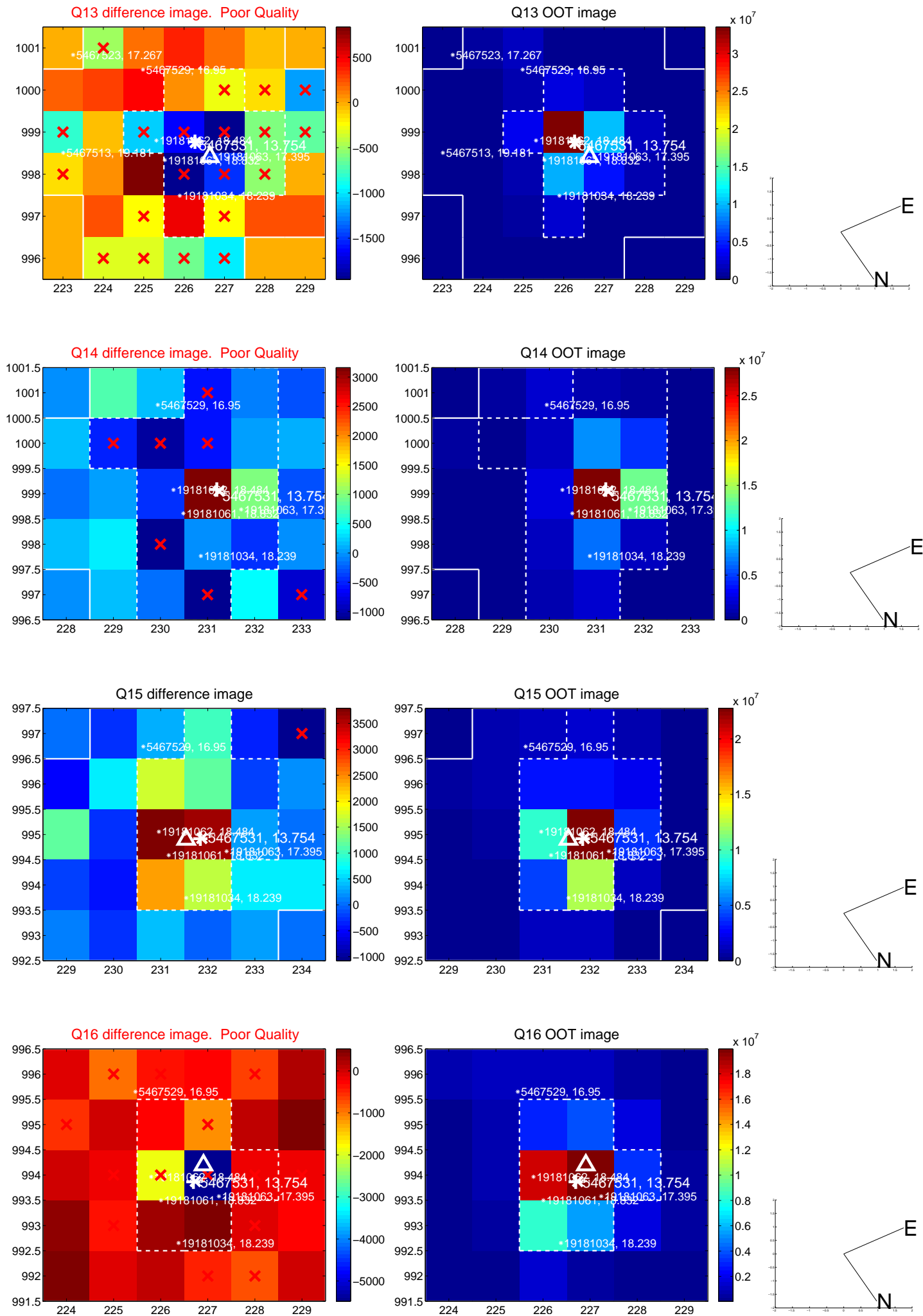
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



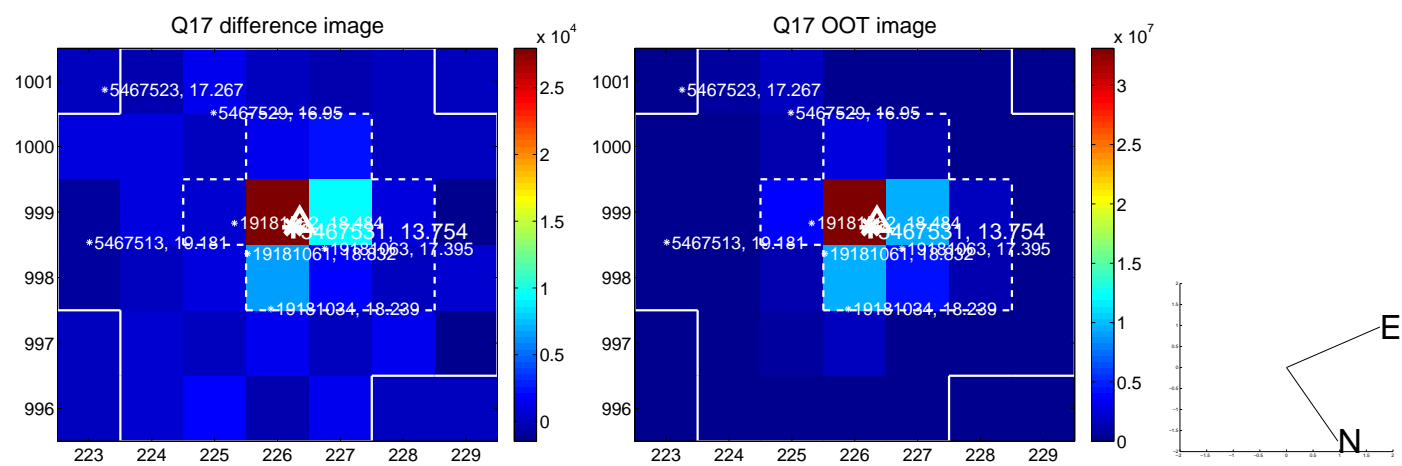
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



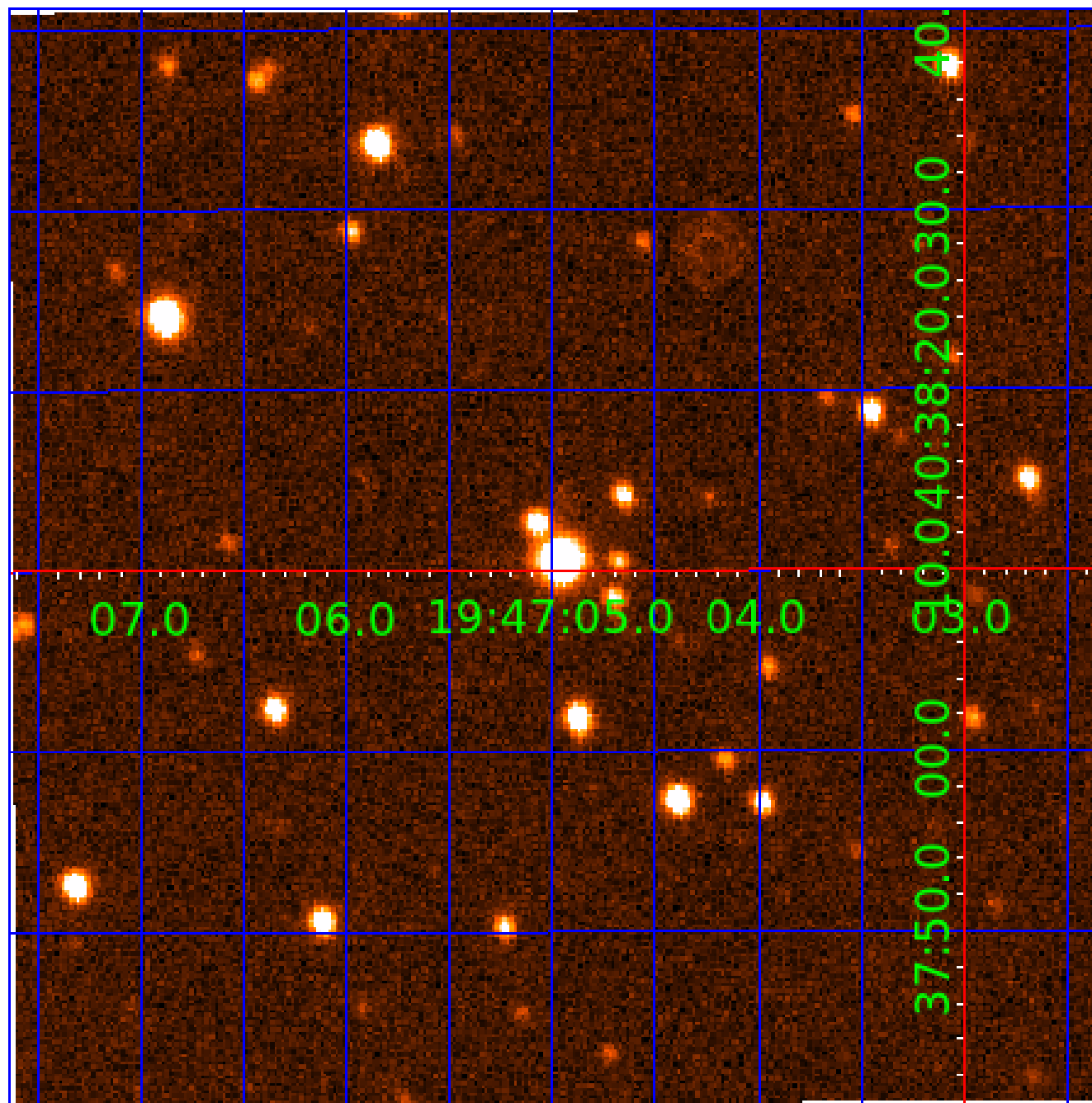
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image

Declination



KIC 005467531

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})
005467531-01	OBS	No	4.884931	135.798201	0.1	4.095	9.3	0.0	1.20	6937	0.04	825.55
005467531-02	OBS	No	4.882484	135.349098	171.4	5.000	9.9	-1.0	1.20	6937	1.59	826.10
005467531-03	OBS	No	1.278655	132.565172	17.9	5.086	8.5	6.0	1.20	6937	0.59	4930.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467531-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005467531-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS
005467531-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

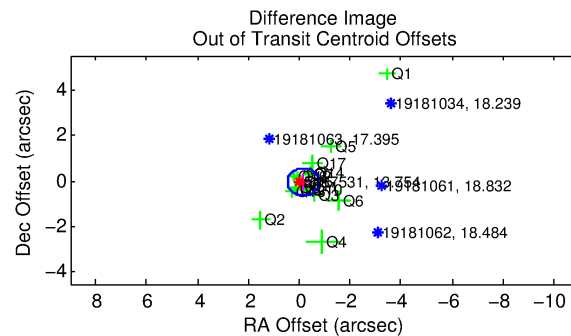
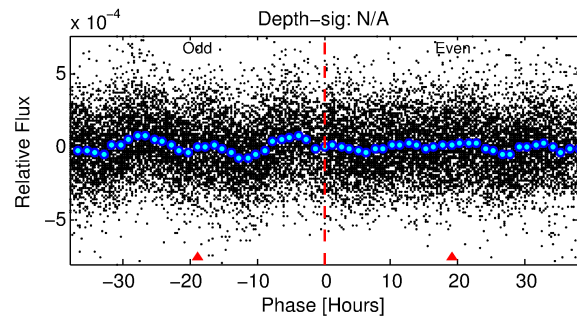
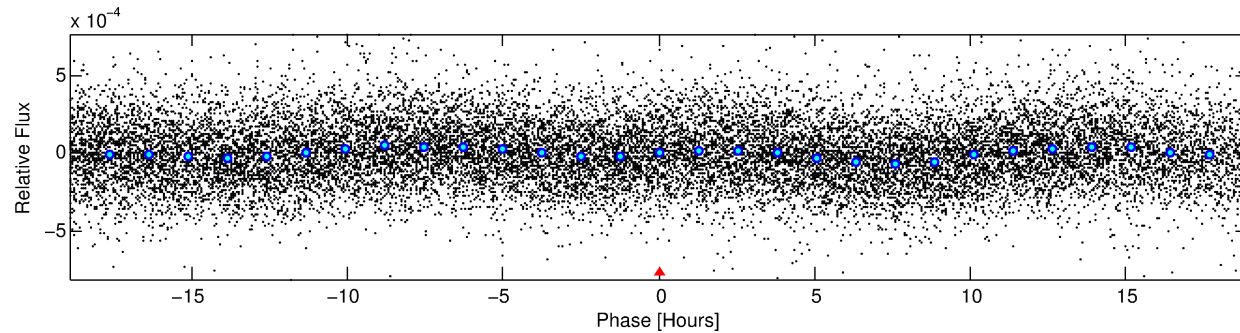
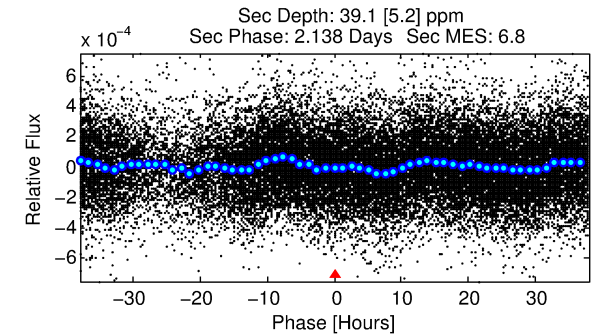
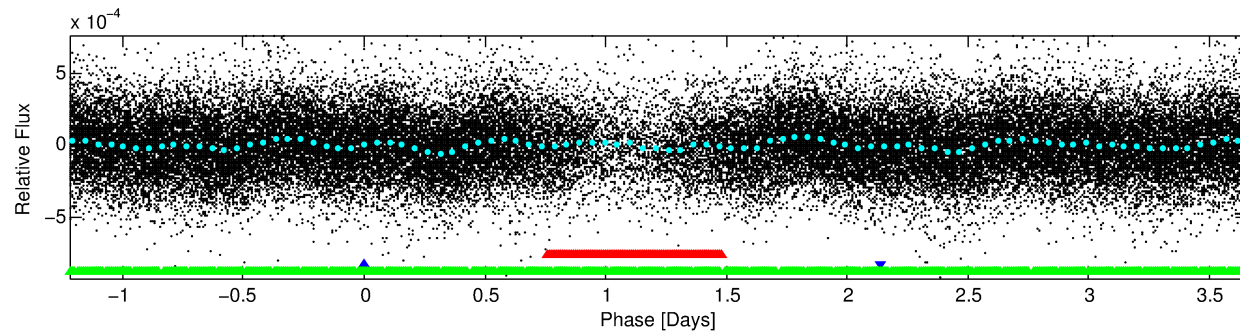
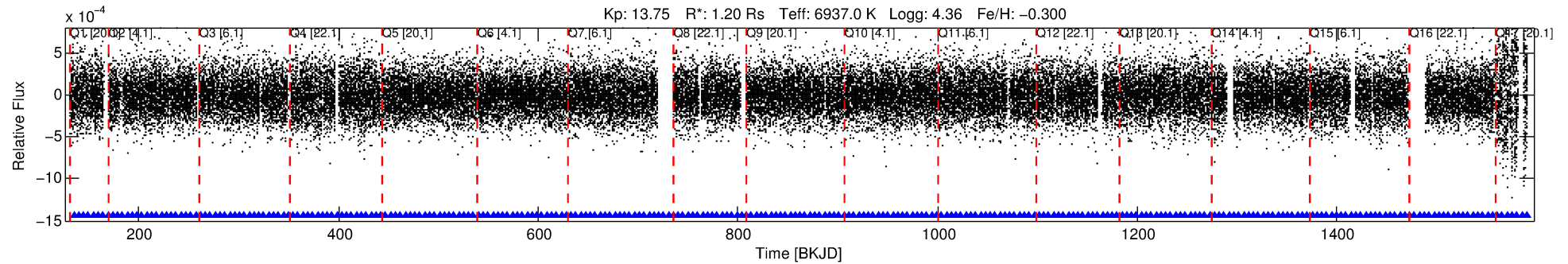
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005467531-02

No Significant Match Found

DV One-Page Summary

KIC: 5467531 Candidate: 2 of 3 Period: 4.882 d



TPS TCE Results:

Period = 4.88248 d
Epoch = 135.3491 BKJD

DV fit results are unavailable

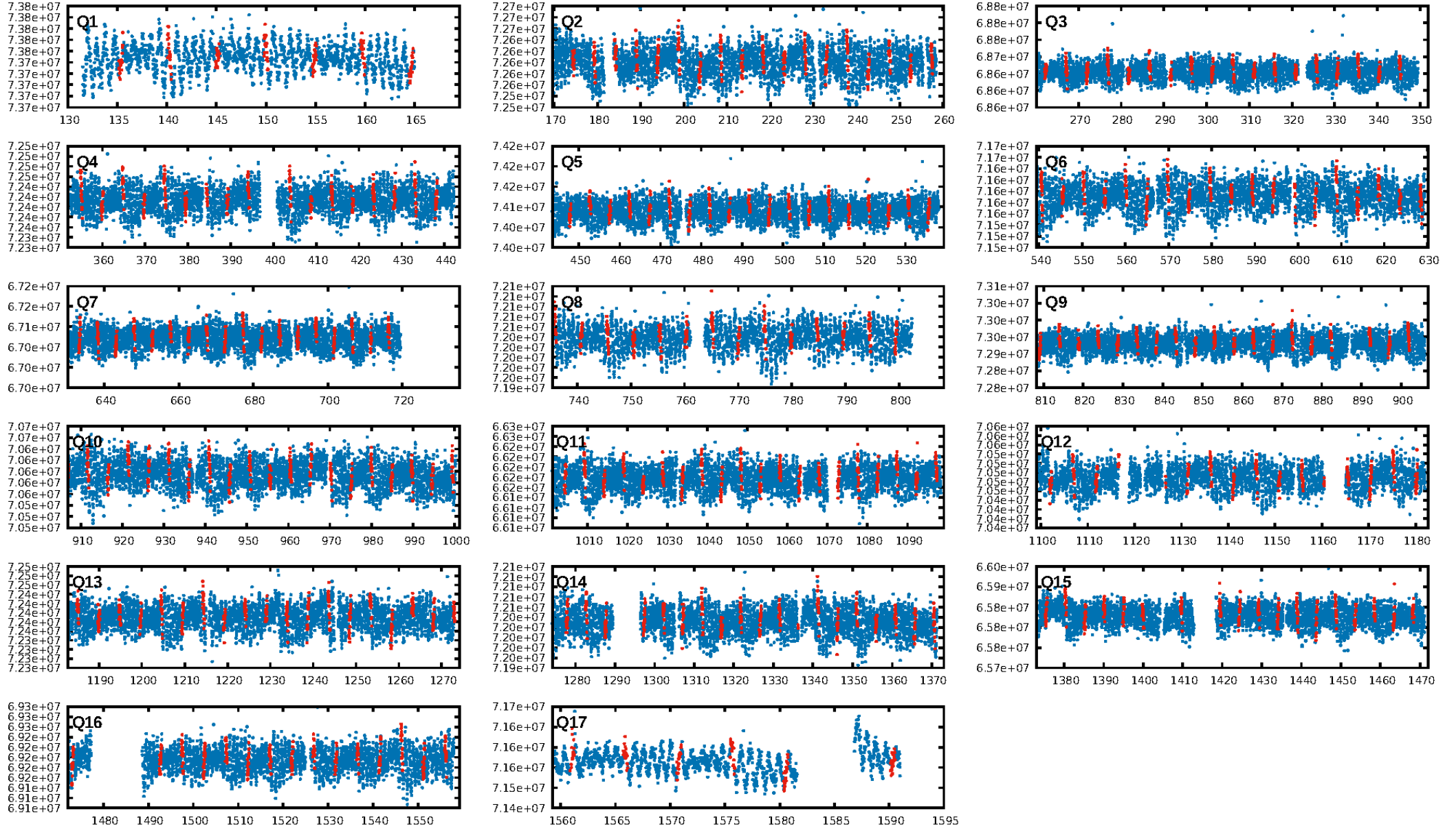
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [12.13σ]
LongPeriod-sig: 0.7% [0.01σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.50e-16
RollingBand-fgt: 1.00 [262/262]
GhostDiagnostic-chr: 3.528
Centroid-sig: 11.6%
Centroid-so: 1.168 arcsec [0.87σ]
OotOffset-rm: 0.146 arcsec [0.72σ]
KicOffset-rm: 0.270 arcsec [1.38σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.94 [16/17]
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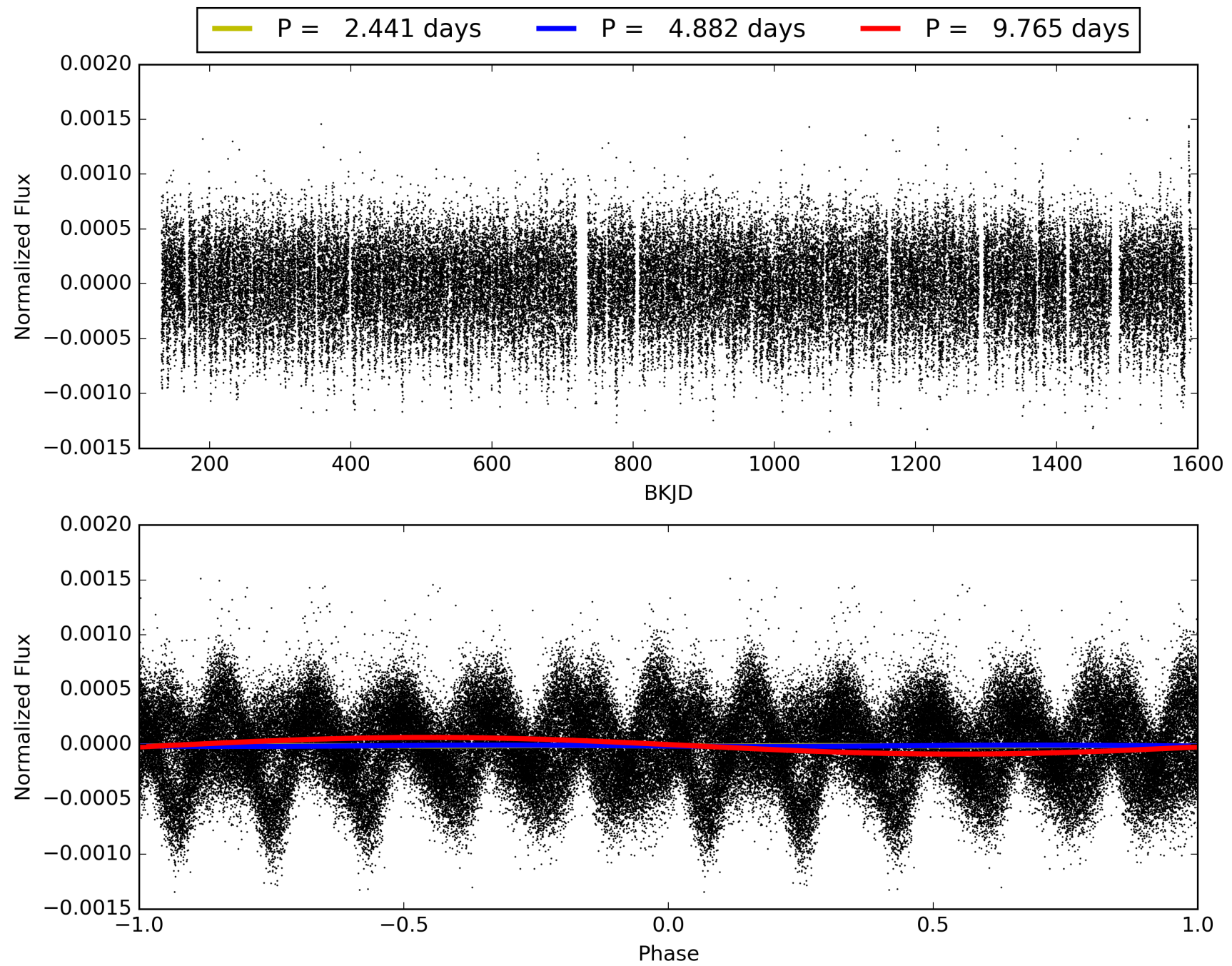
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:33:09 Z

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

TCE 005467531-02, PDC Light Curves

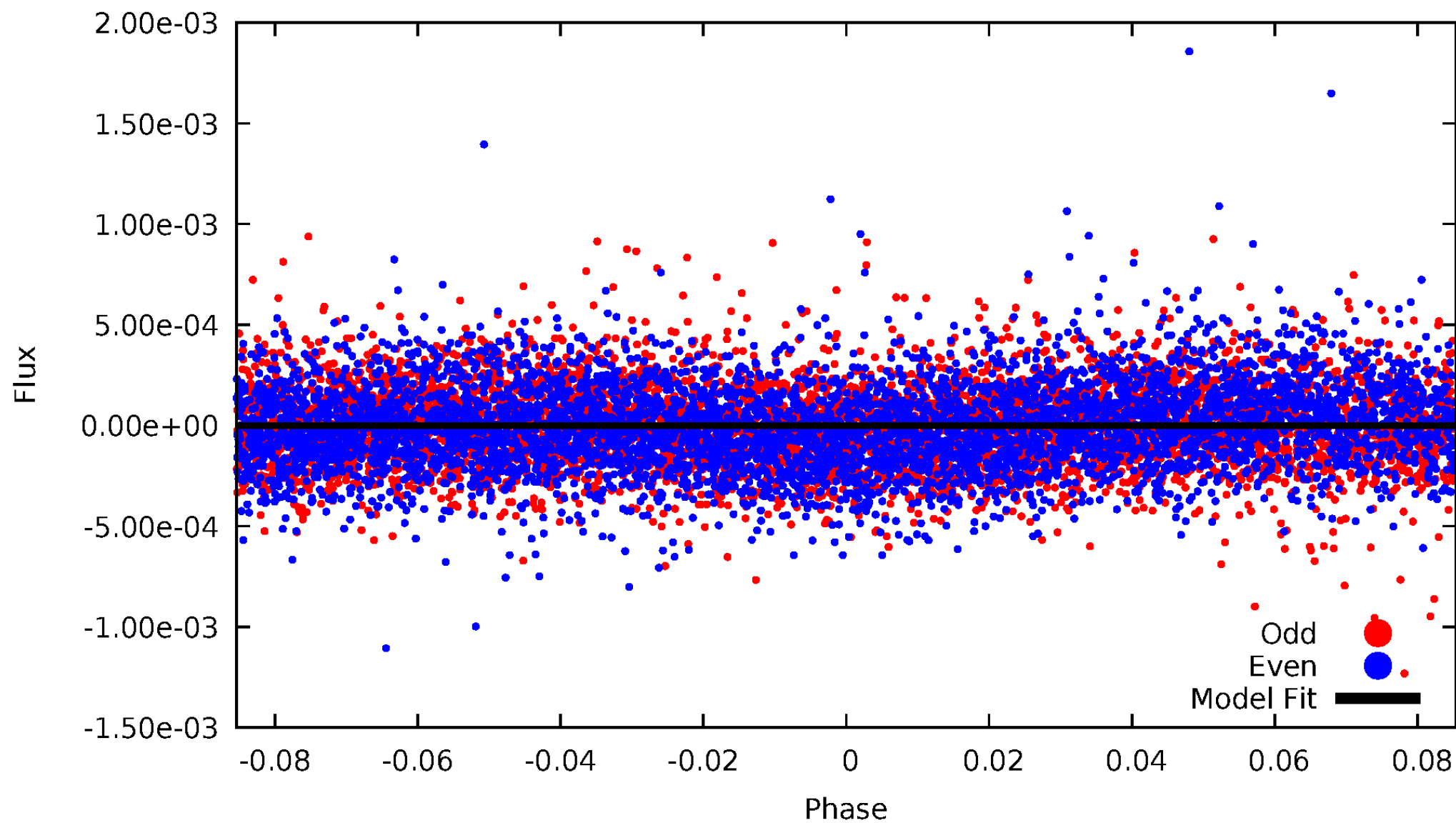


TCE 005467531-02



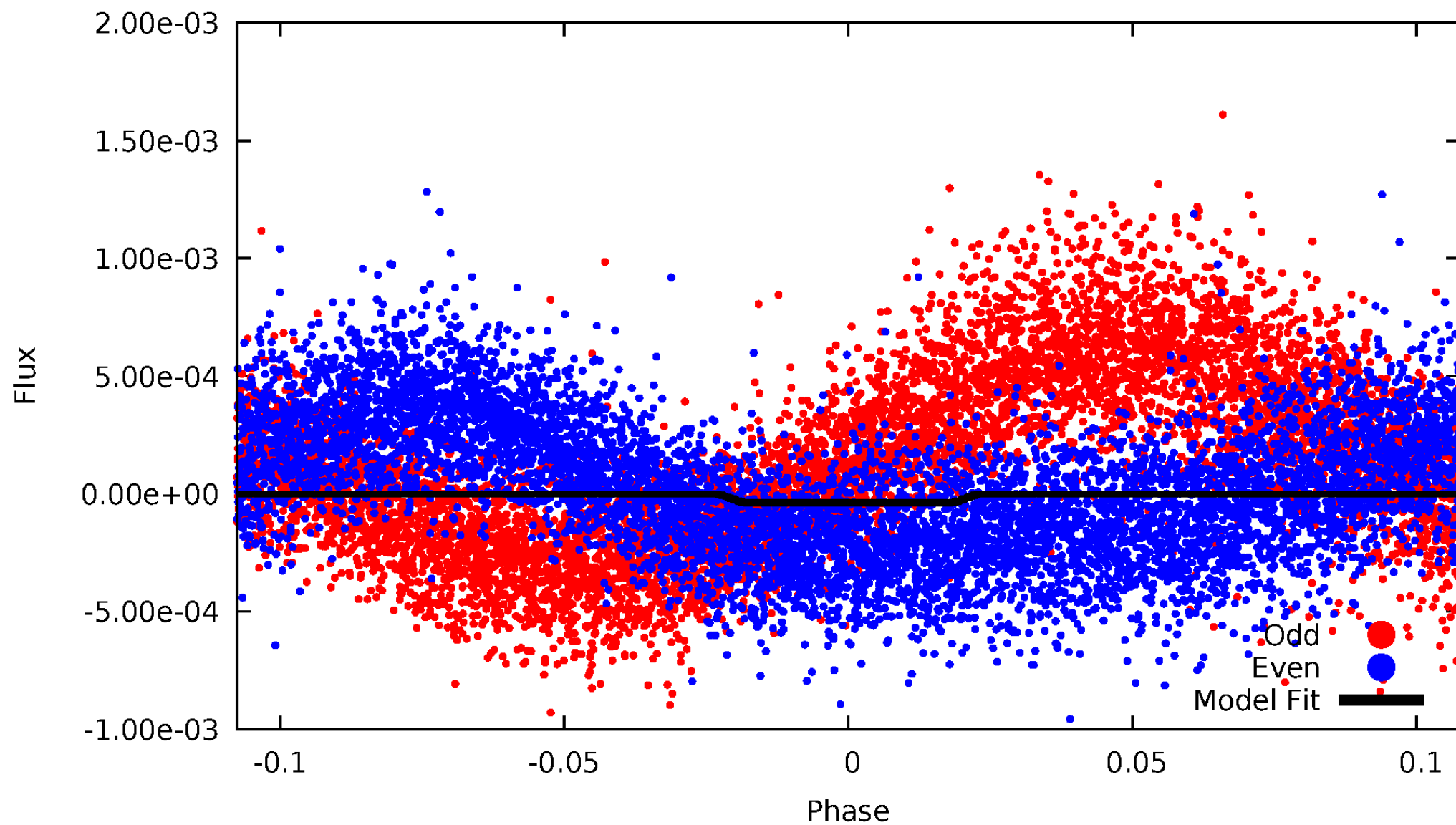
DV Odd/Even

TCE 005467531-02



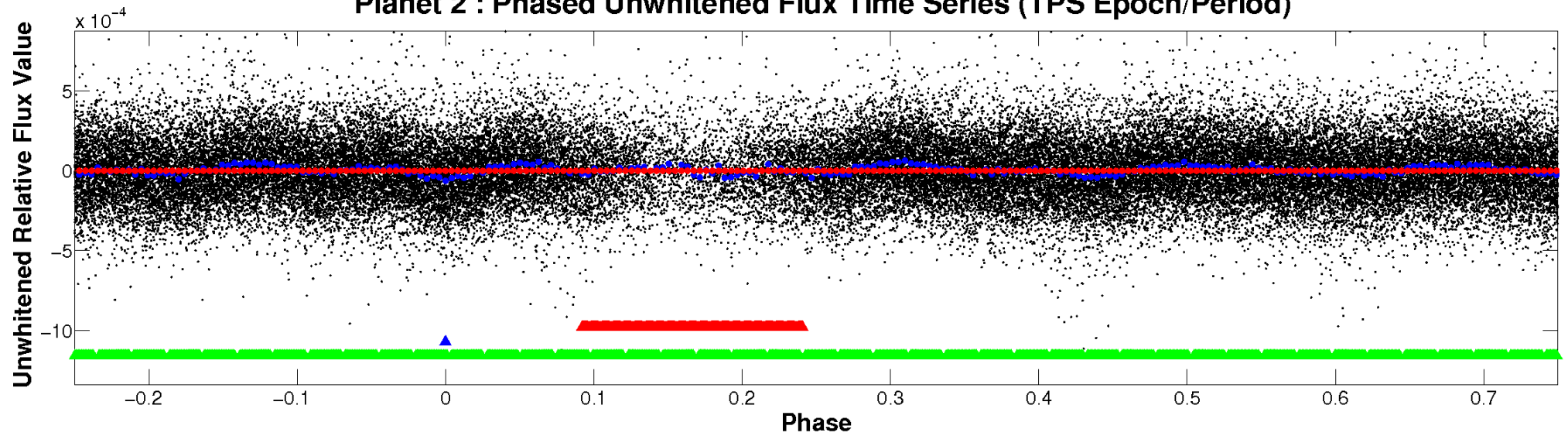
ALT Odd/Even

TCE 005467531-02

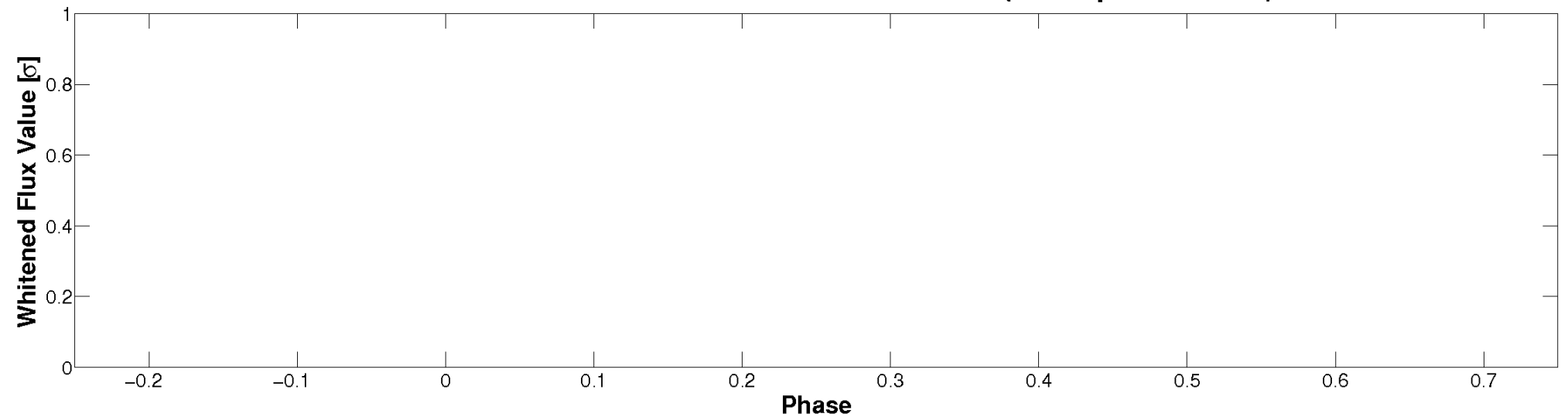


Non-Whitened Vs. Whitened Light Curve

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

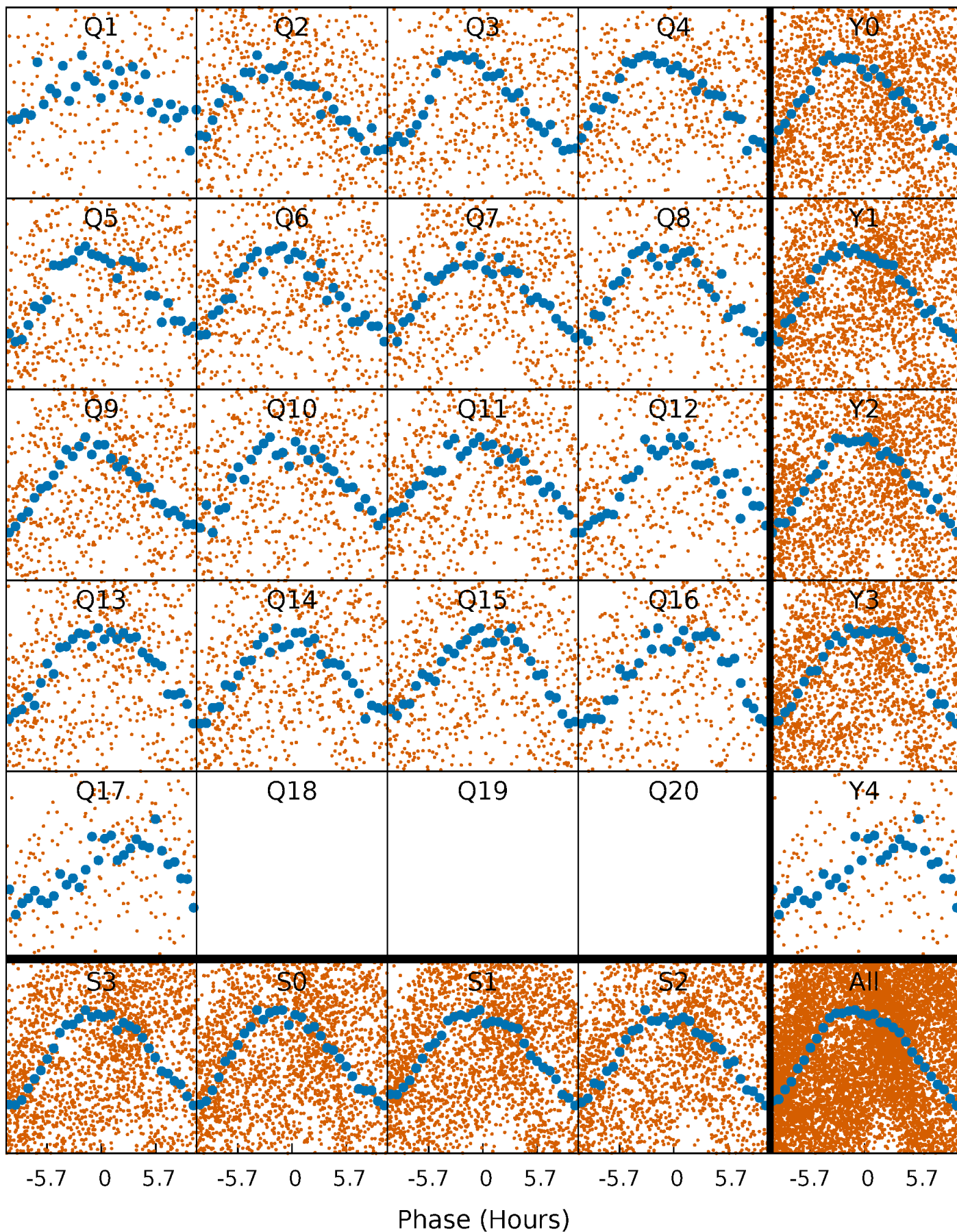


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



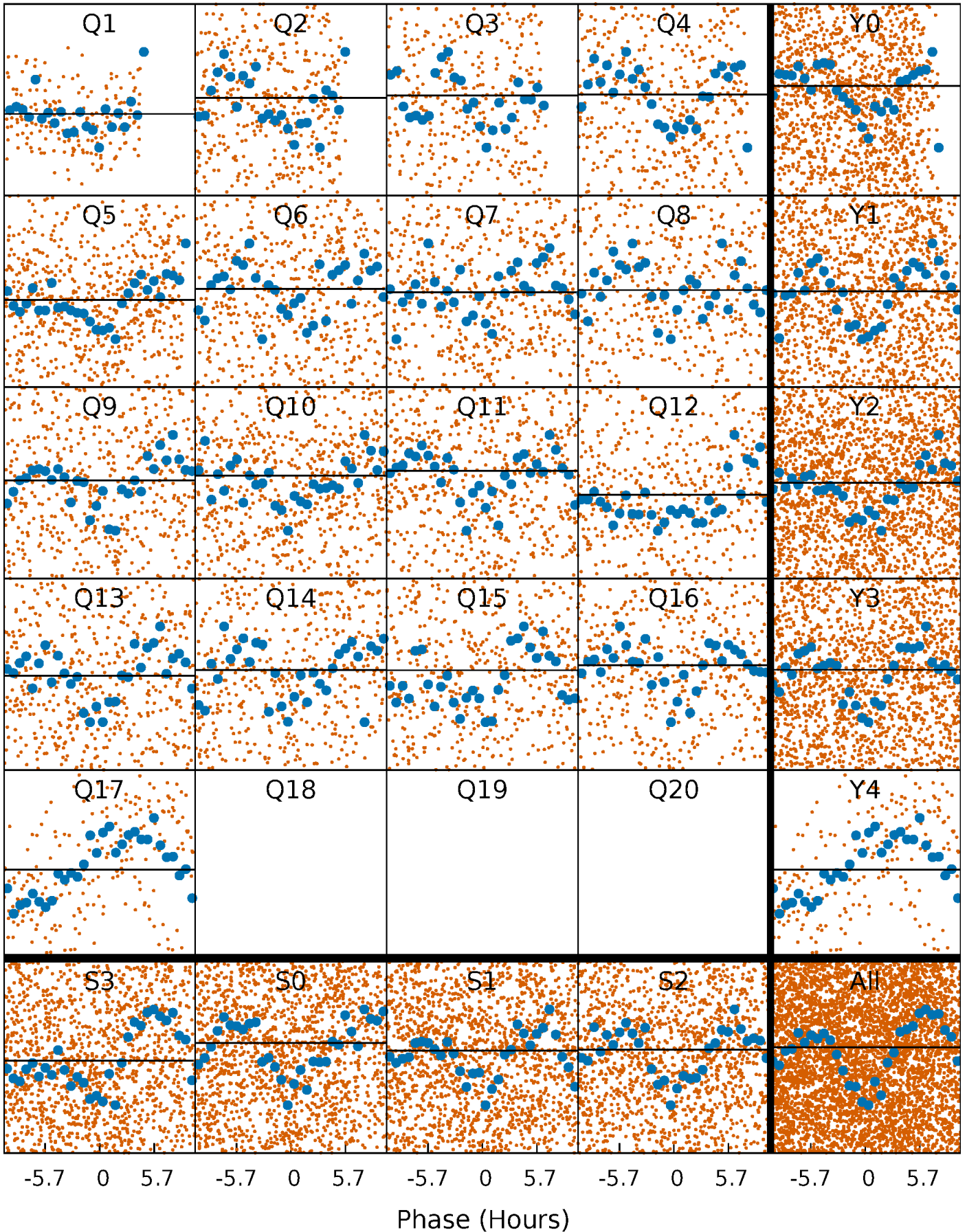
PDC Quarter-Phased Transit Curves

TCE 005467531-02 P= 4.882484 Days $T_0=135.349097$ (BKJD)



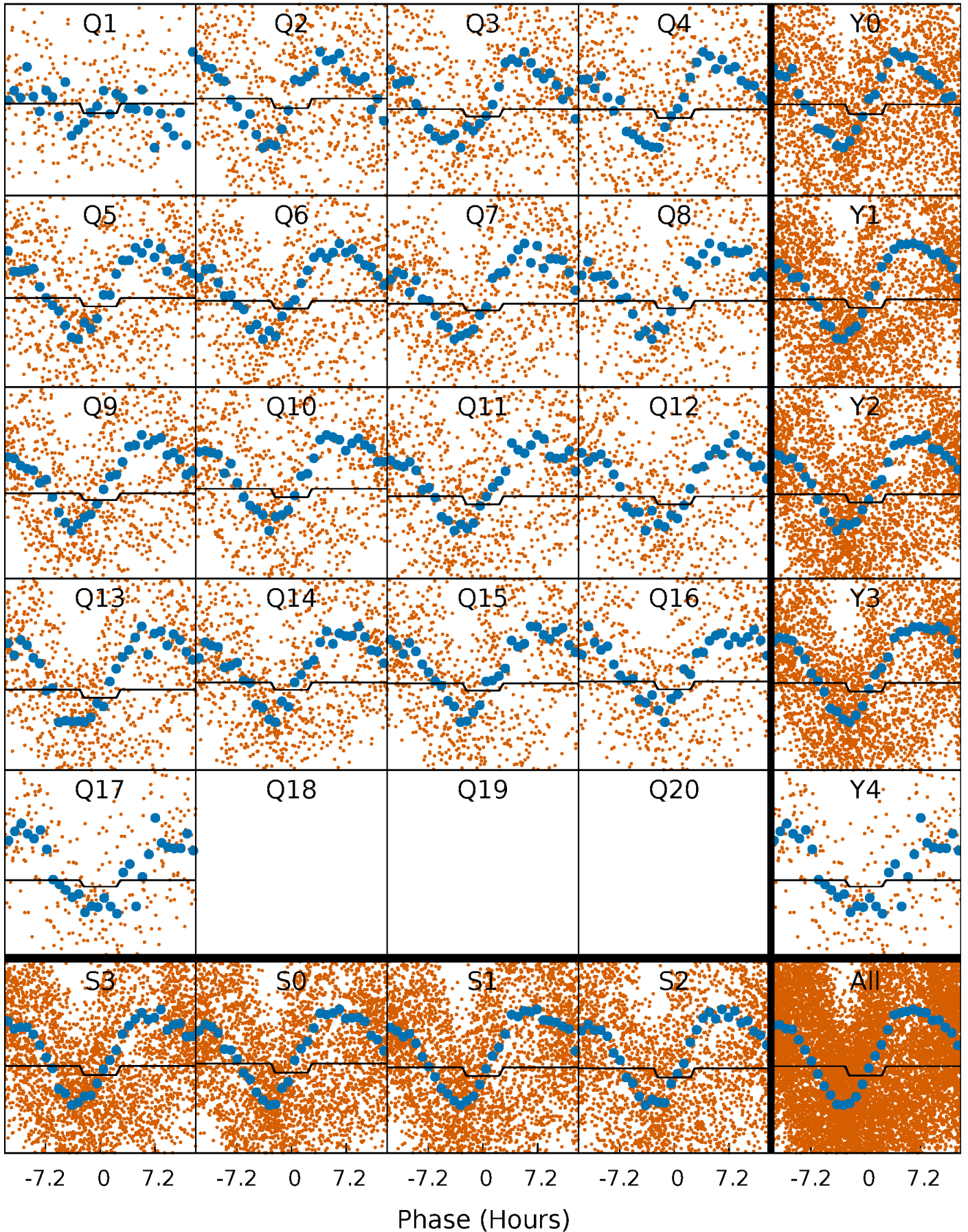
DV Quarter-Phased Transit Curves

TCE 005467531-02 P= 4.882484 Days $T_0=135.349097$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

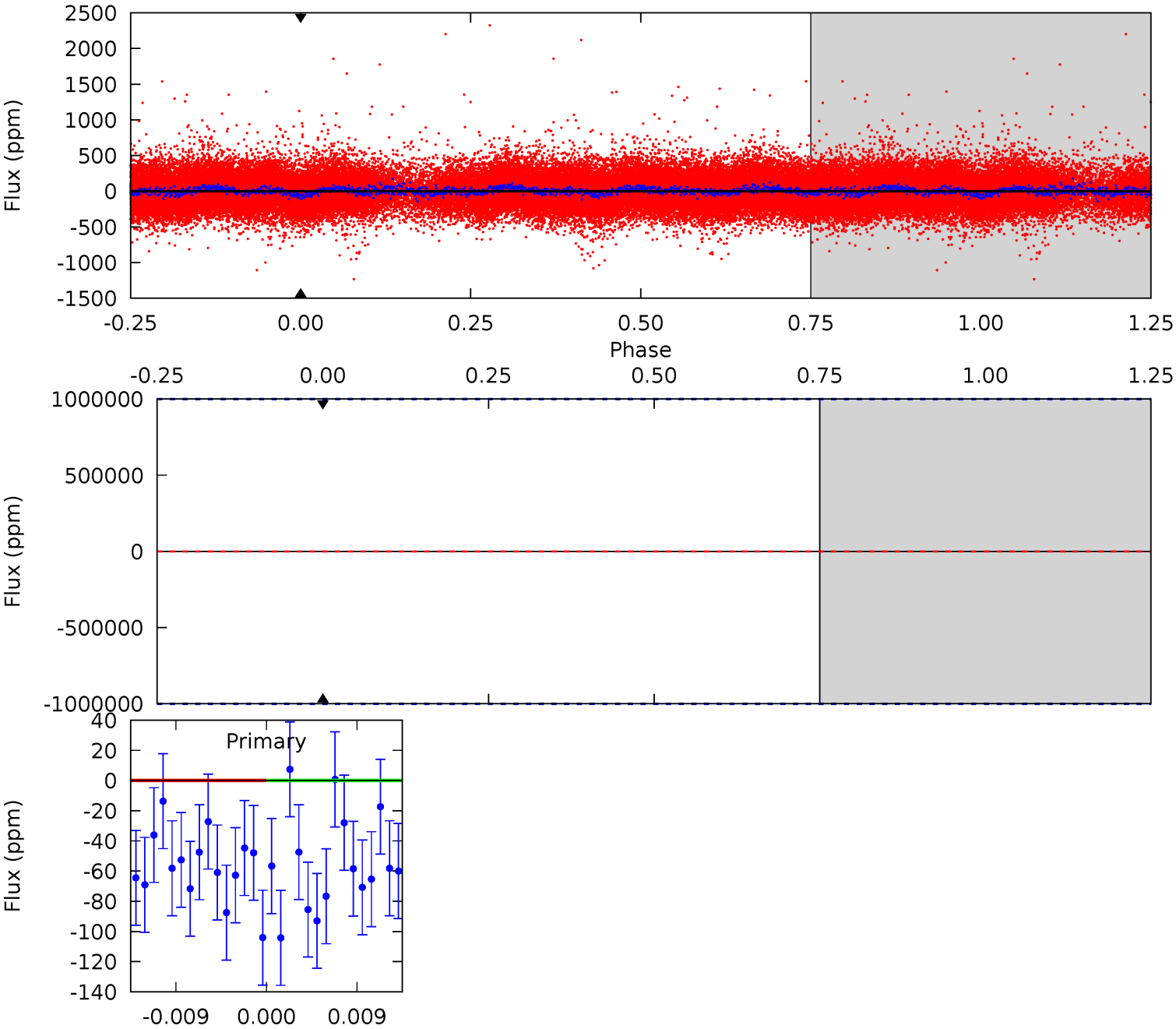
TCE 005467531-02 P= 4.882484 Days $T_0=135.041328$ (BKJD)



DV Model-Shift Uniqueness Test

005467531-02, P = 4.882484 Days, E = 130.466613 Days

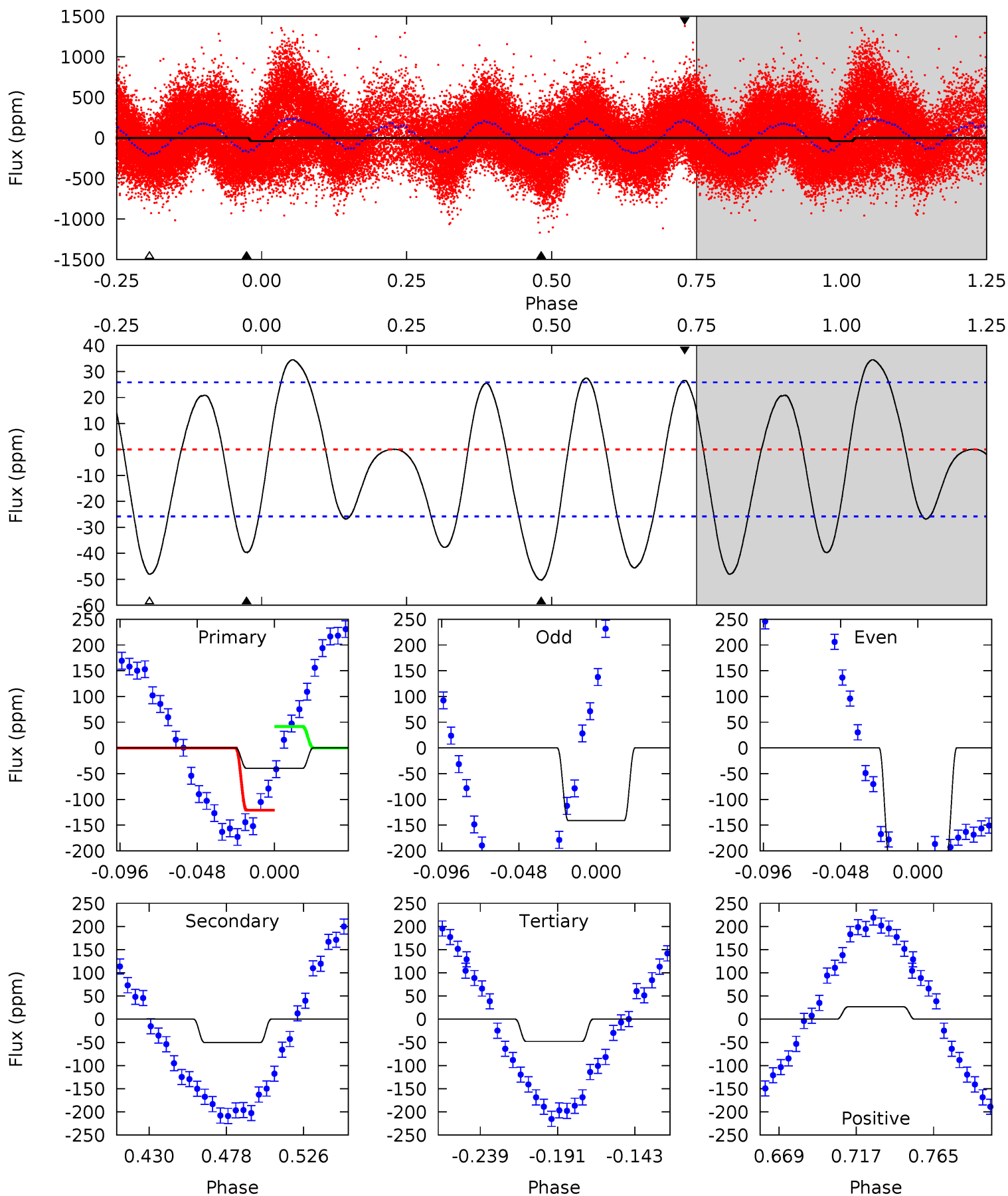
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

005467531-02, P = 4.882484 Days, E = 130.158844 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.24	9.19	8.78	4.86	4.72	1.98	4.45	-1.53	2.39	0.41	4.33	7.74	5.51	0.41	7.59



Stellar Parameters For KIC 005467531

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6937^{+191}_{-286}	$4.364^{+0.054}_{-0.216}$	$-0.300^{+0.250}_{-0.350}$	$1.198^{+0.422}_{-0.113}$	$1.229^{+0.198}_{-0.165}$	$1.008^{+0.294}_{-0.537}$
	+3%/-4%	+1%/-5%	+83%/-117%	+35%/-9%	+16%/-13%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005467531-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$10.09^{+11.10}_{-7.01}$	1948^{+139}_{-107}	4440^{+29870}_{-41837}	16^{+3763}_{-3805}
Alt.	-50 ± 5	$9.81^{+10.60}_{-6.74}$	1946^{+158}_{-101}	2747^{+1390}_{-4860}	$1.046^{+9.082}_{-0.822}$

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 $A_{\text{obs}} \gg 1.0$

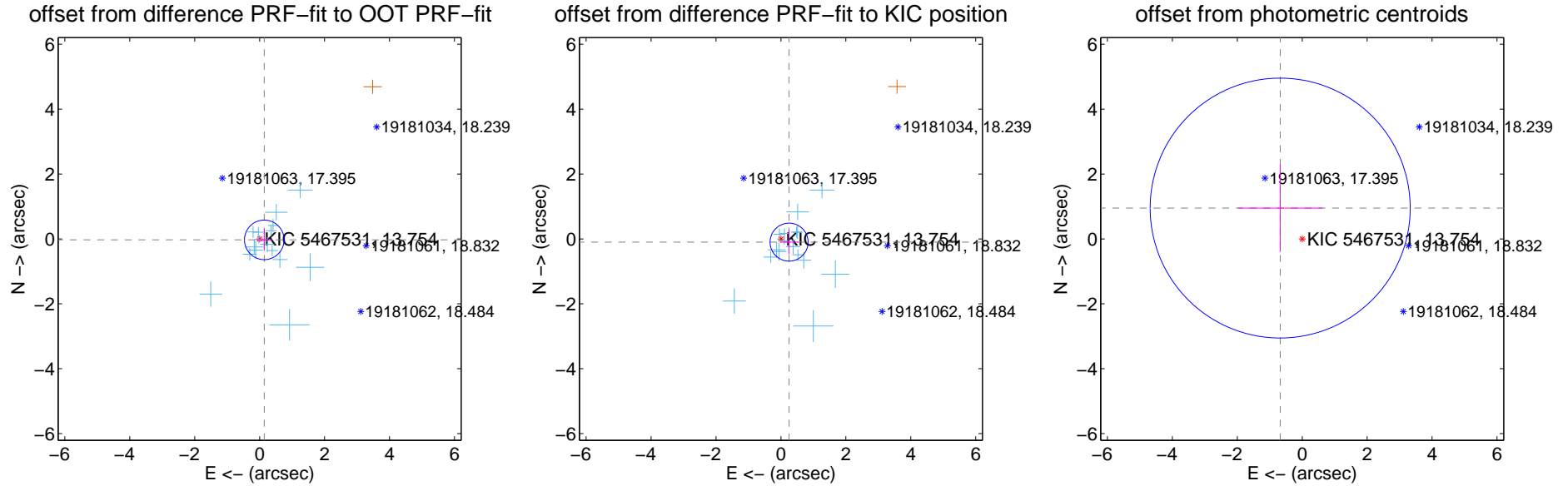
DV Centroid Data

Supplemental centroid analysis for 005467531-02. Kepler magnitude: 13.75. Transit SNR -1.00

There are 16 quarters with good PRF difference image offsets

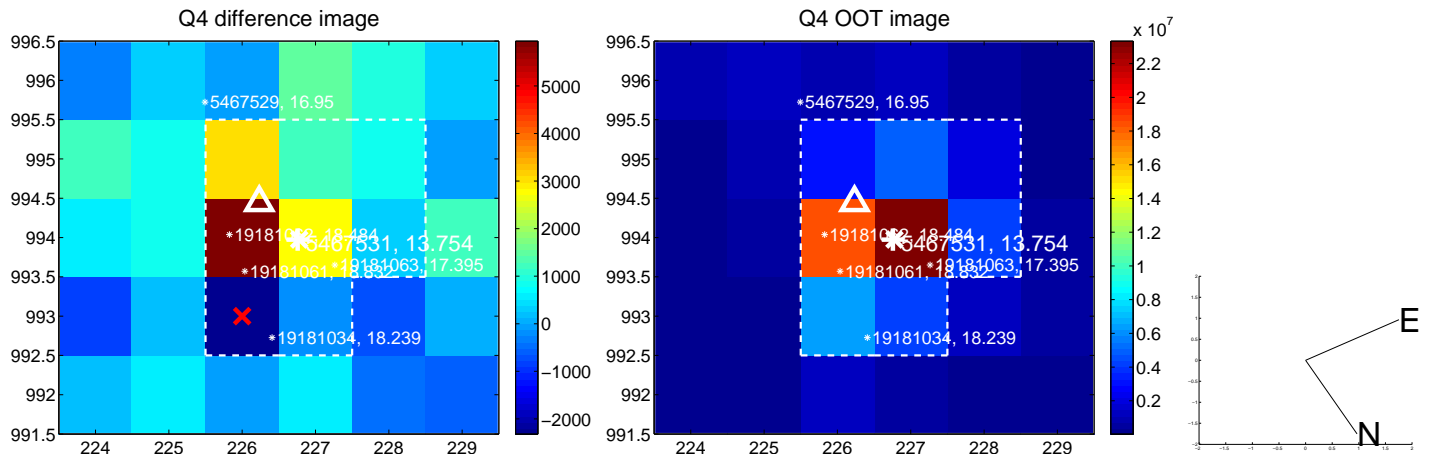
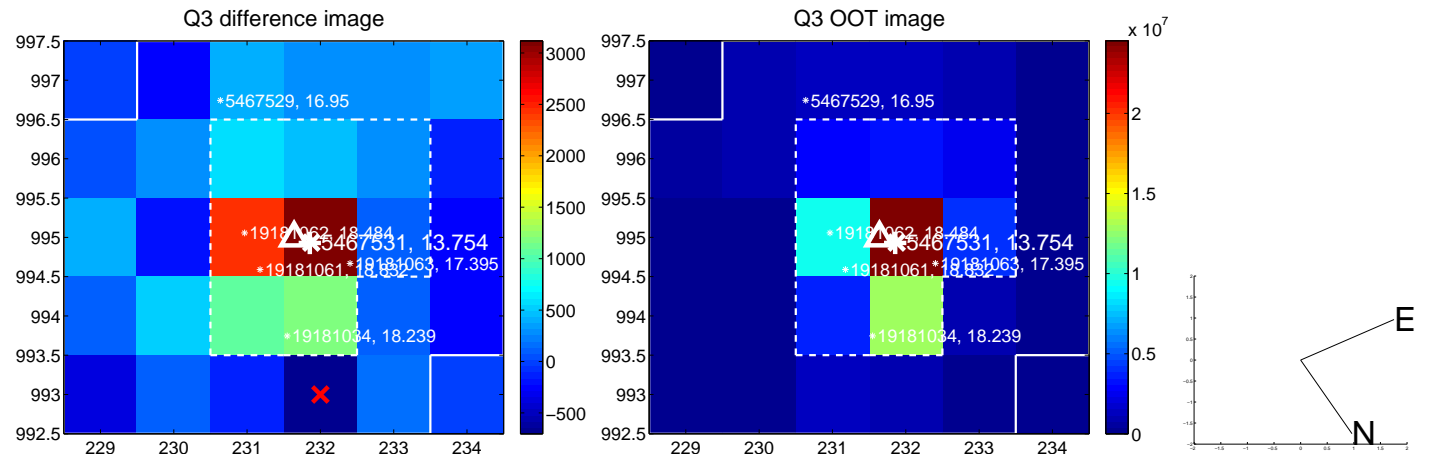
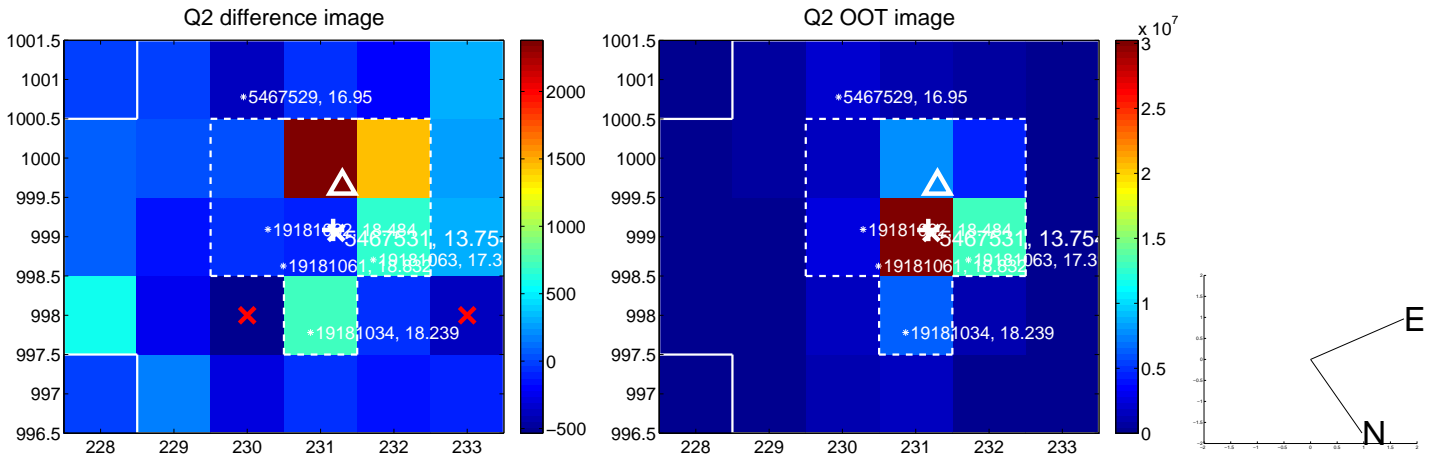
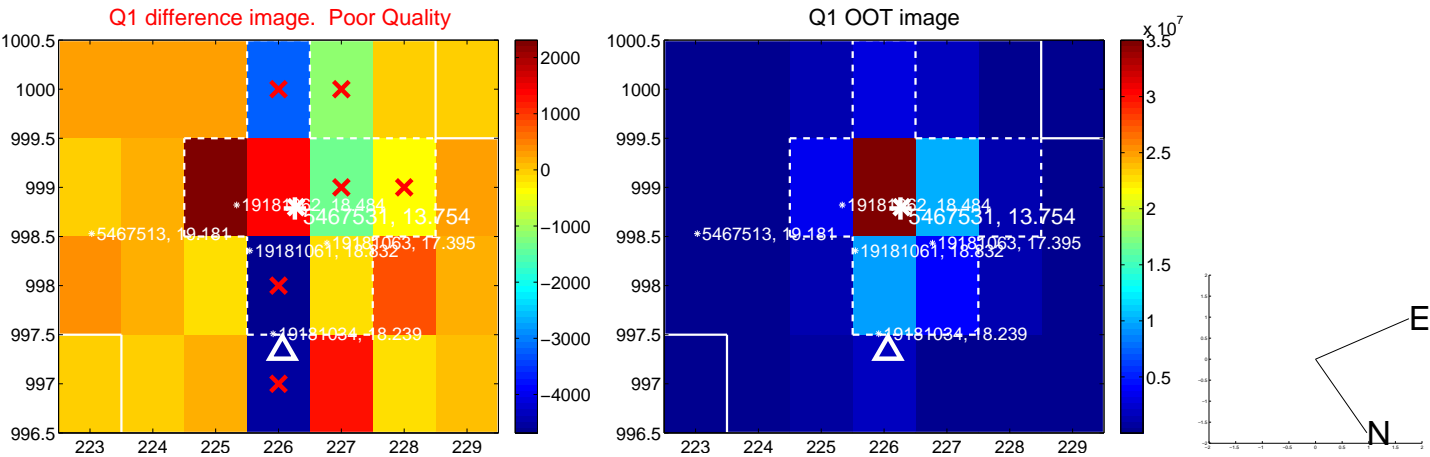
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.146 ± 0.203	0.72	-0.143 ± 0.240	-0.029 ± 0.340
PRF-fit source offset from KIC position	0.270 ± 0.195	1.38	-0.251 ± 0.278	-0.099 ± 0.375
photometric centroid source offset	1.17 ± 1.33	0.87	0.68 ± 1.30	0.95 ± 1.35

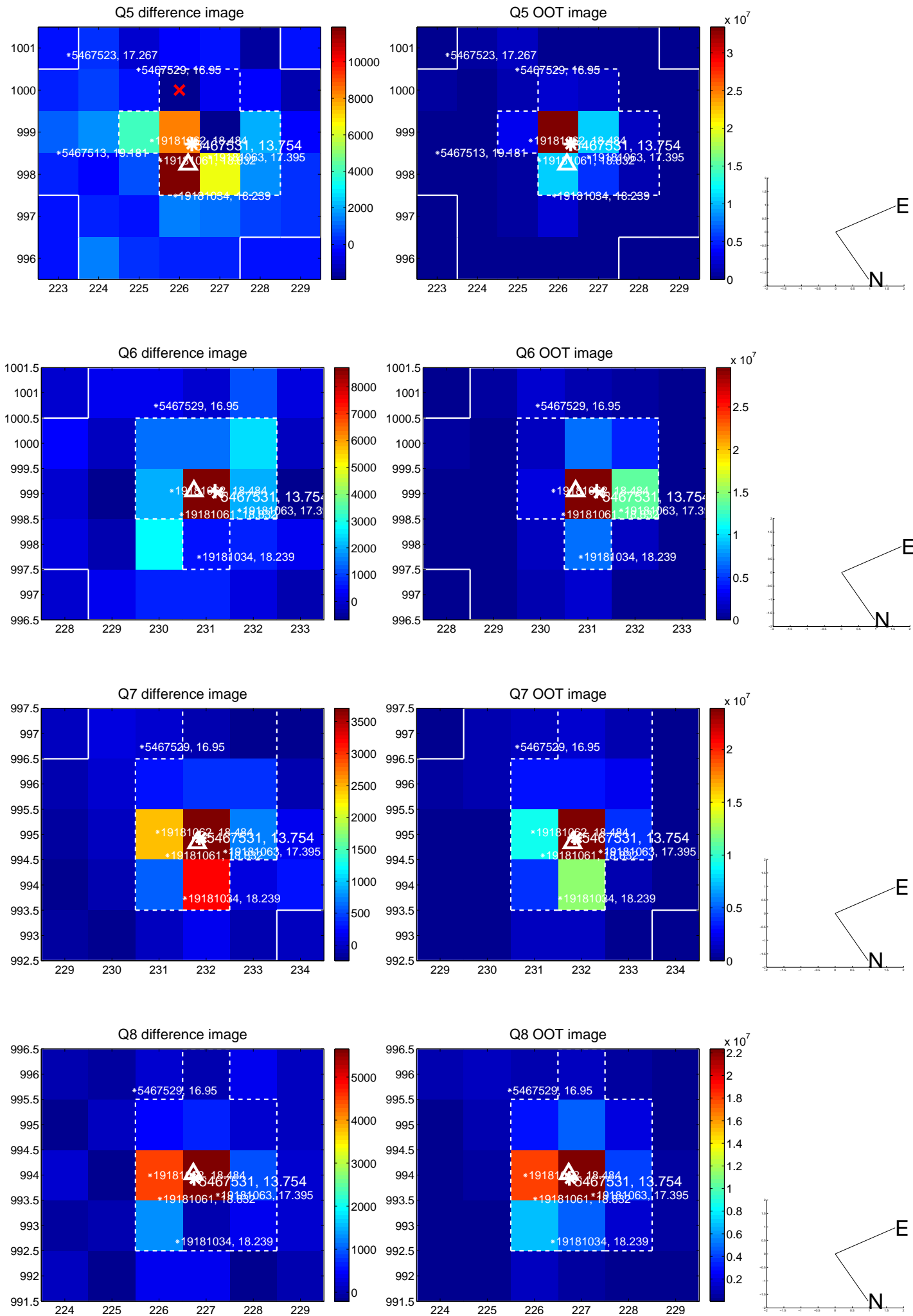


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

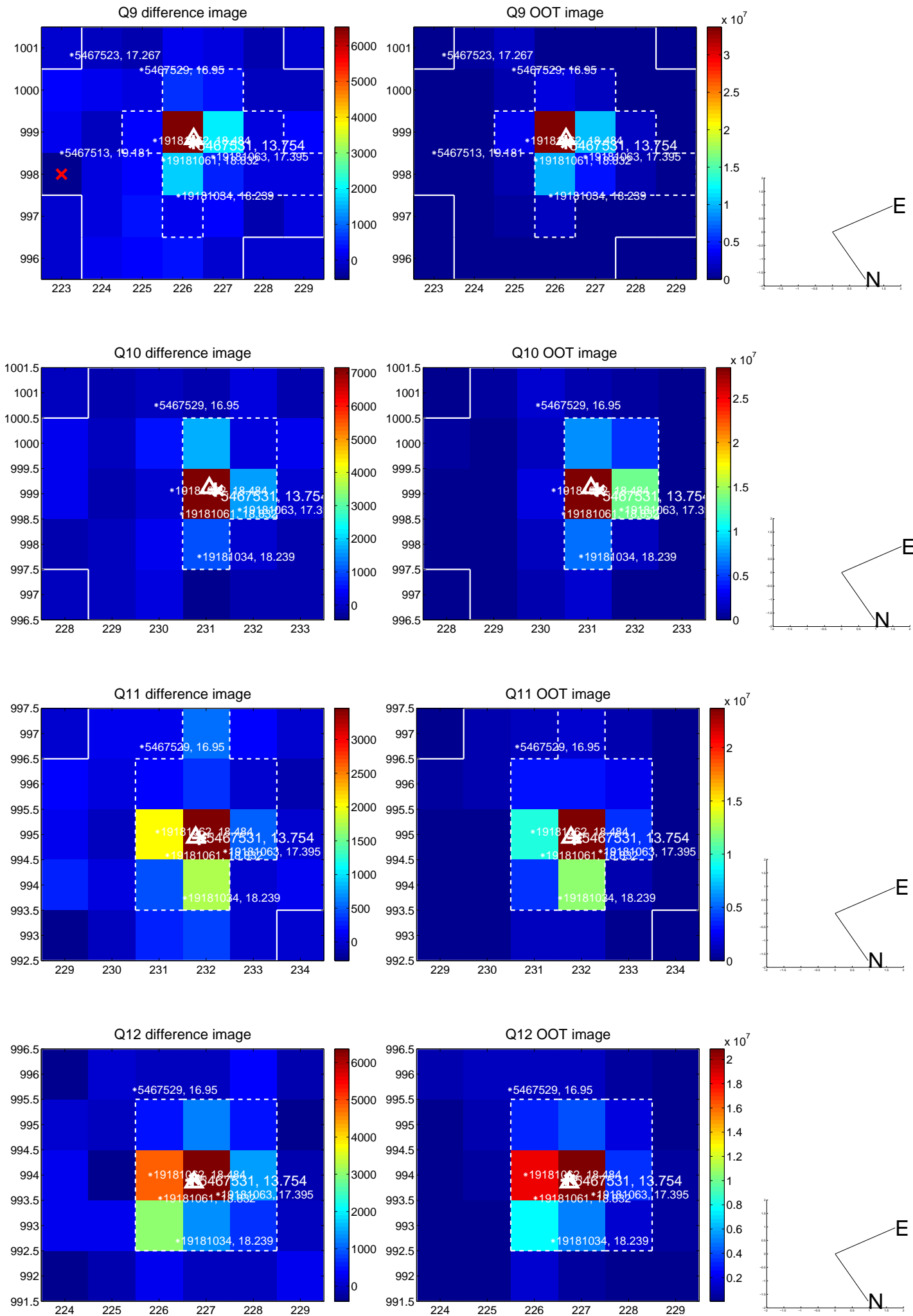
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



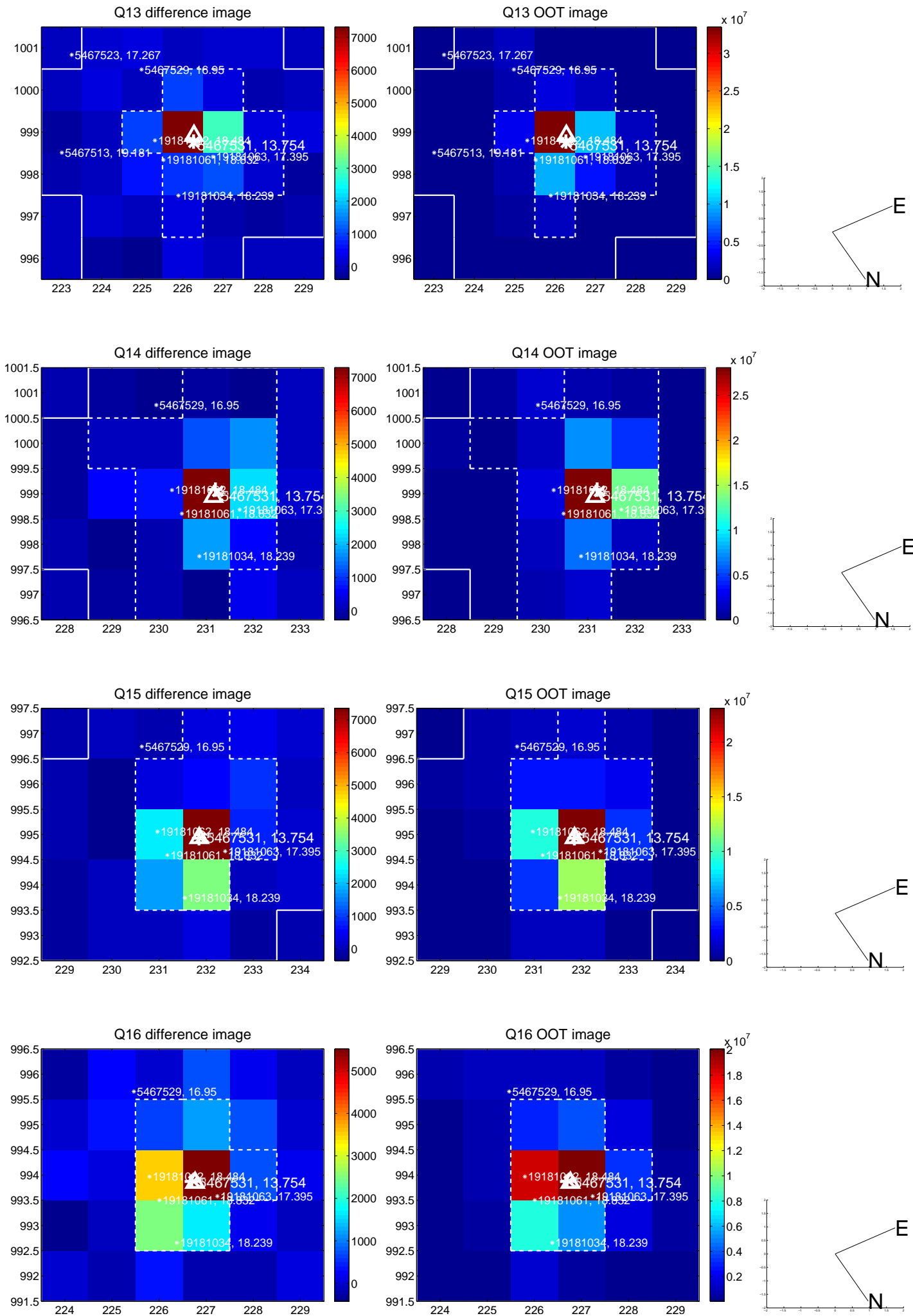
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



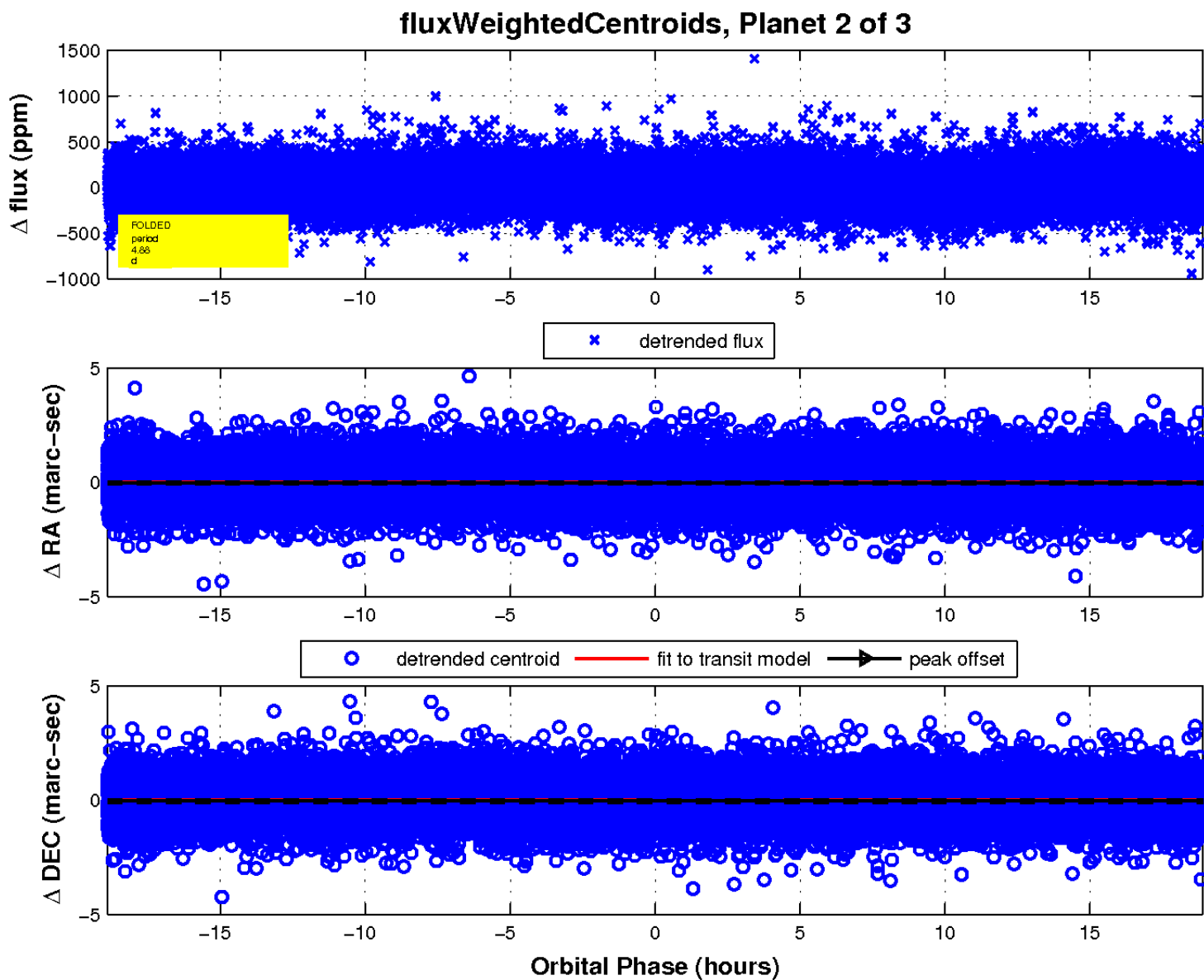
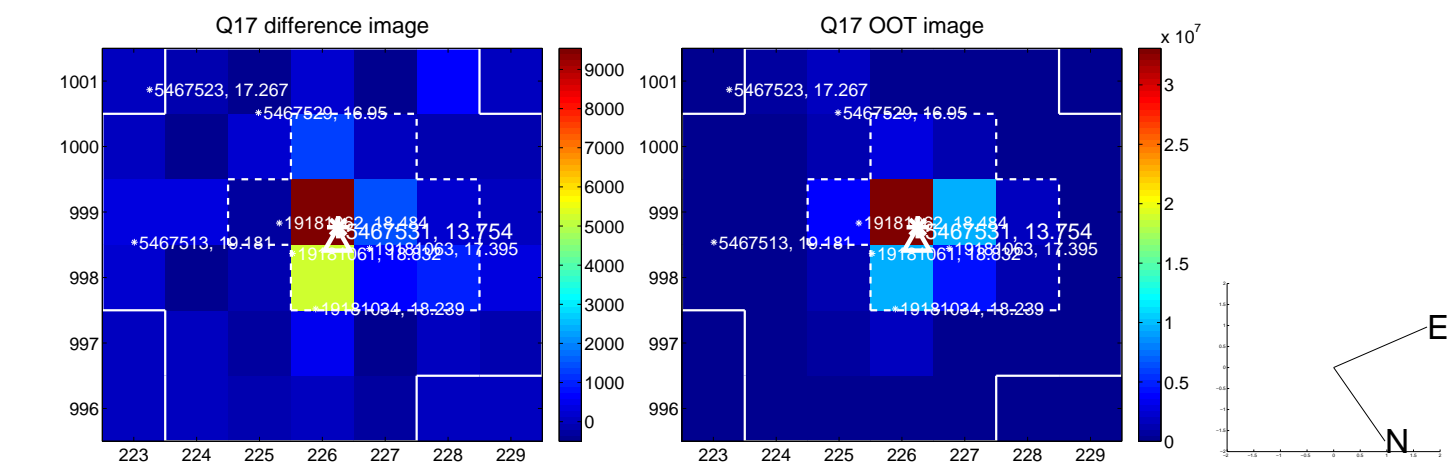
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

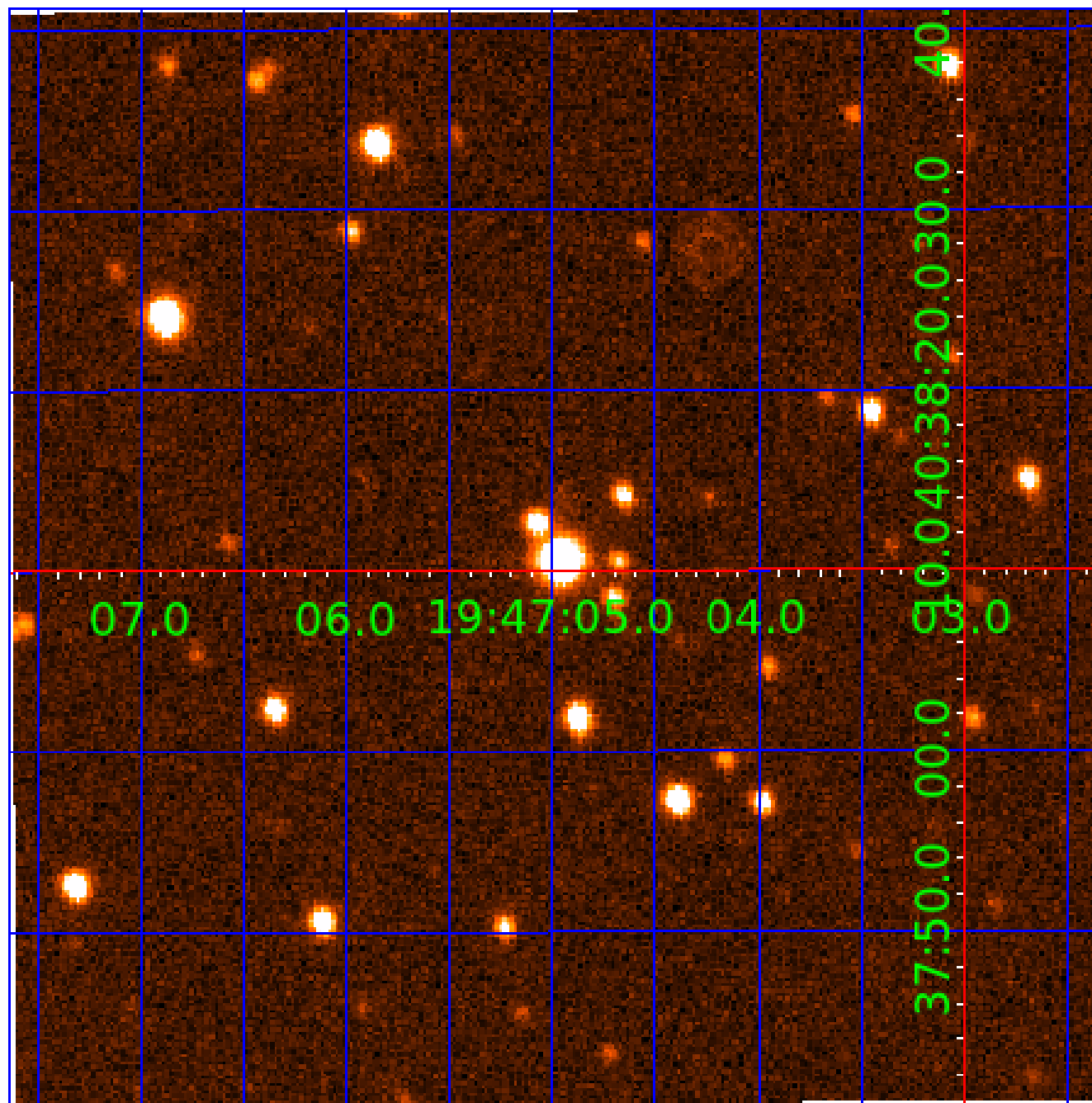


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 005467531

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})
005467531-01	OBS	No	4.884931	135.798201	0.1	4.095	9.3	0.0	1.20	6937	0.04	825.55
005467531-02	OBS	No	4.882484	135.349098	171.4	5.000	9.9	-1.0	1.20	6937	1.59	826.10
005467531-03	OBS	No	1.278655	132.565172	17.9	5.086	8.5	6.0	1.20	6937	0.59	4930.39

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005467531-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT
005467531-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—CENT_NOFITS
005467531-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT

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

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

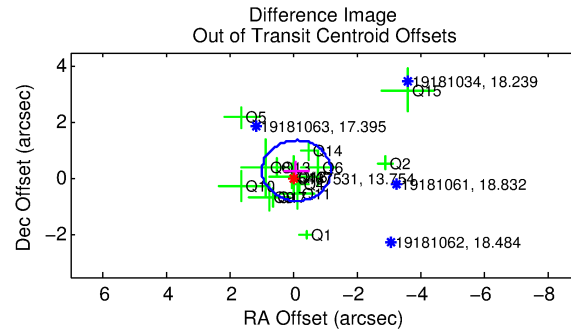
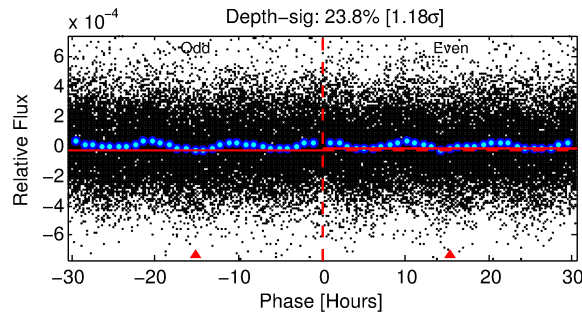
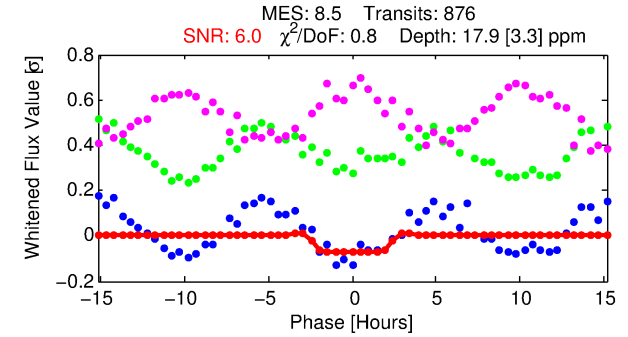
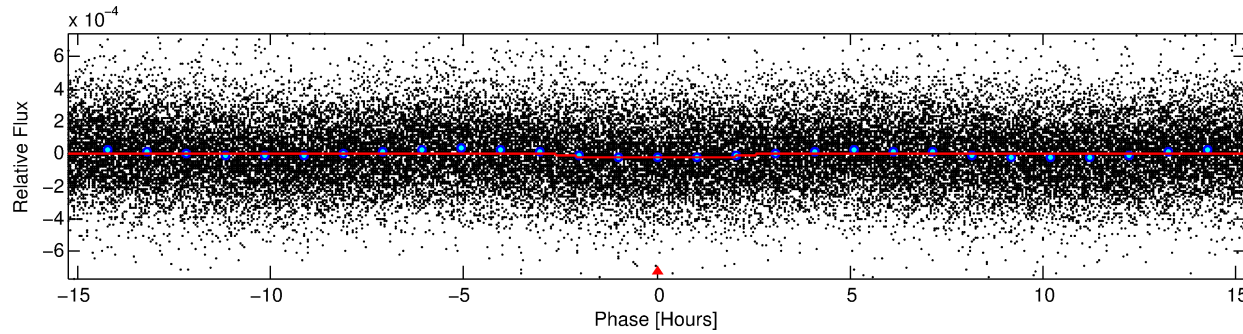
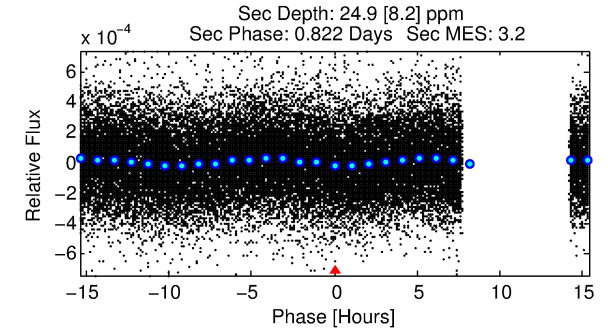
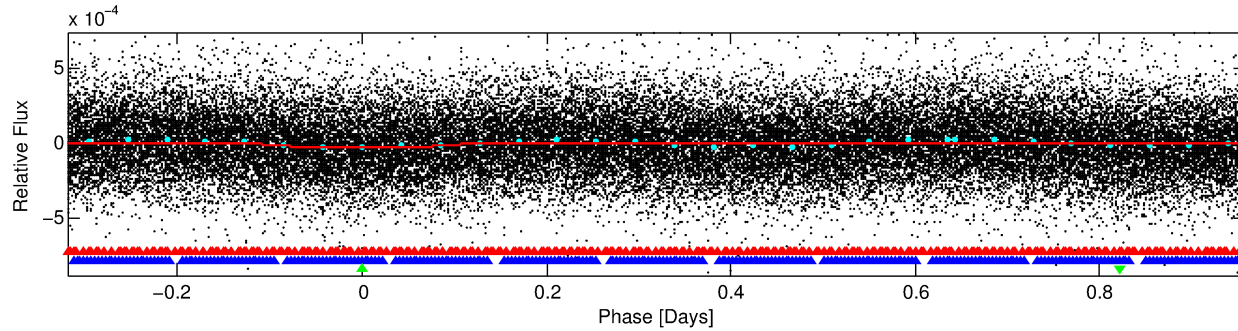
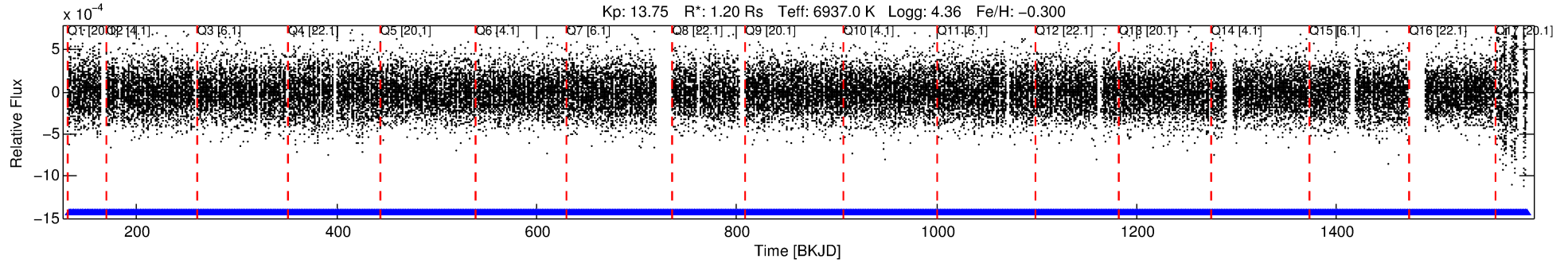
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005467531-03

No Significant Match Found

DV One-Page Summary

KIC: 5467531 Candidate: 3 of 3 Period: 1.279 d



DV Fit Results:

Period = 1.27865 [0.00002] d
Epoch = 132.5652 [0.0078] BKJD
Rp/R* = 0.0045 [0.0021]
a/R* = 1.27 [1.42]
b = 0.90 [0.63]
Seff = 4930.39 [2161.99]
Teq = 2137 [234] K
Rp = 0.59 [0.35] Re
a = 0.0246 [0.0071] AU
Ag = 23.98 [26.02] [0.88σ]
Teffp = 7311 [1863] K [2.76σ]

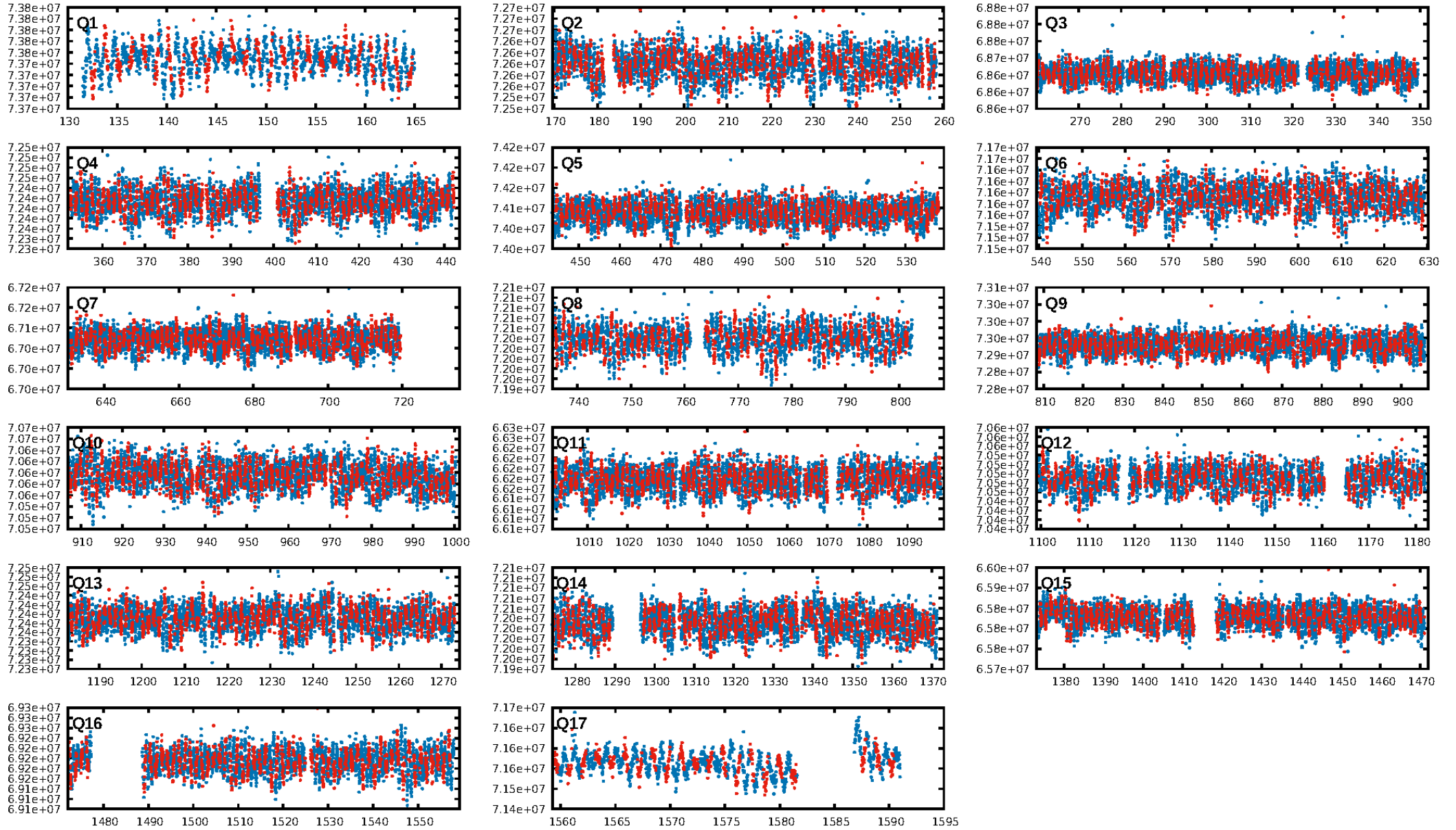
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [12.13σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.84e-12
RollingBand-fgt: 1.00 [838/838]
GhostDiagnostic-chr: 2.768
Centroid-sig: 70.1%
Centroid-so: 0.717 arcsec [0.48σ]
OotOffset-rm: 0.306 arcsec [0.85σ]
OotOffset-st: 4/2/4/5 [15]
KicOffset-rm: 0.238 arcsec [0.56σ]
KicOffset-st: 4/2/4/5 [15]
DiffImageQuality-fgm: 0.93 [14/15]
DiffImageOverlap-fno: 1.00 [17/17]

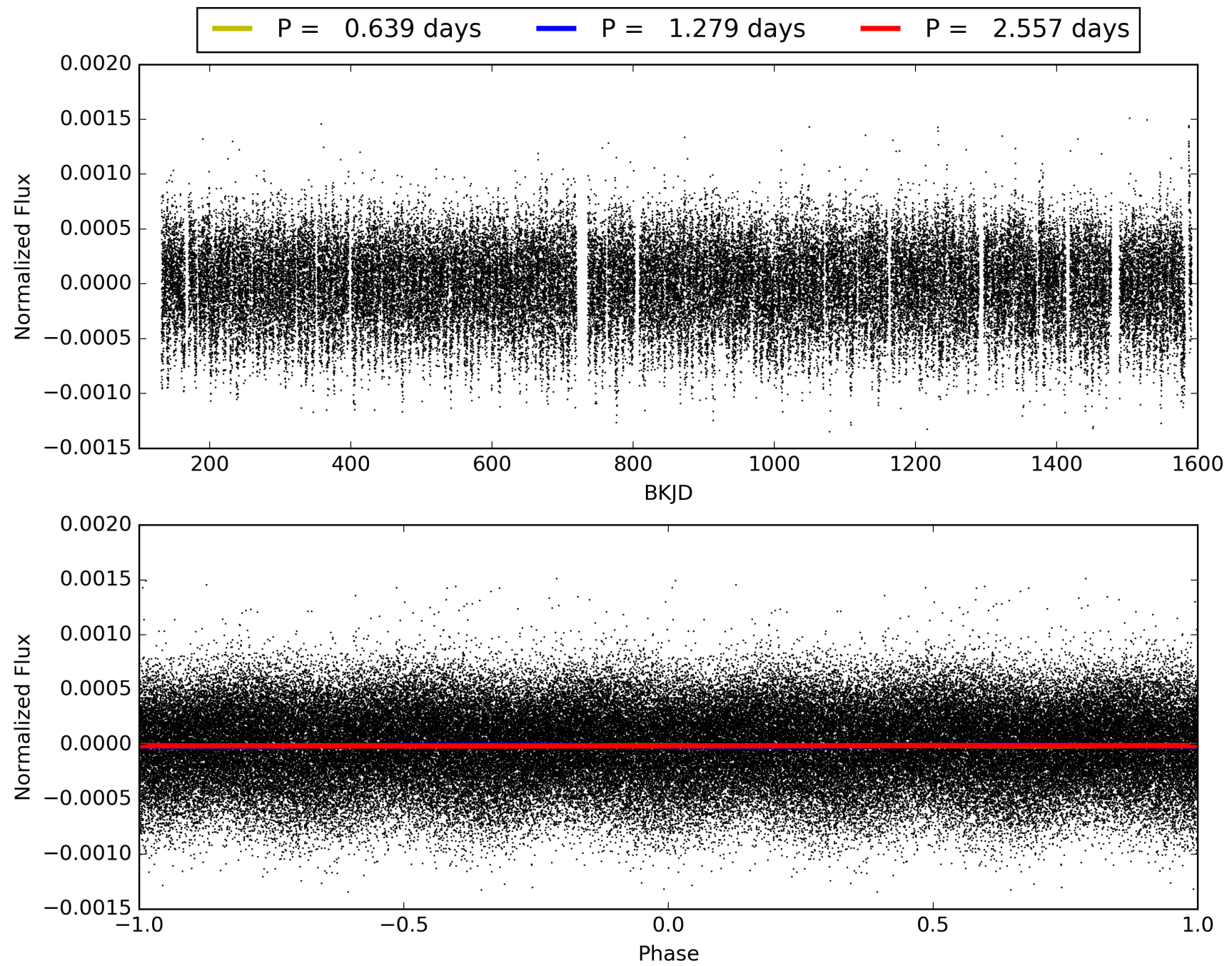
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 22:33:19 Z

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

TCE 005467531-03, PDC Light Curves

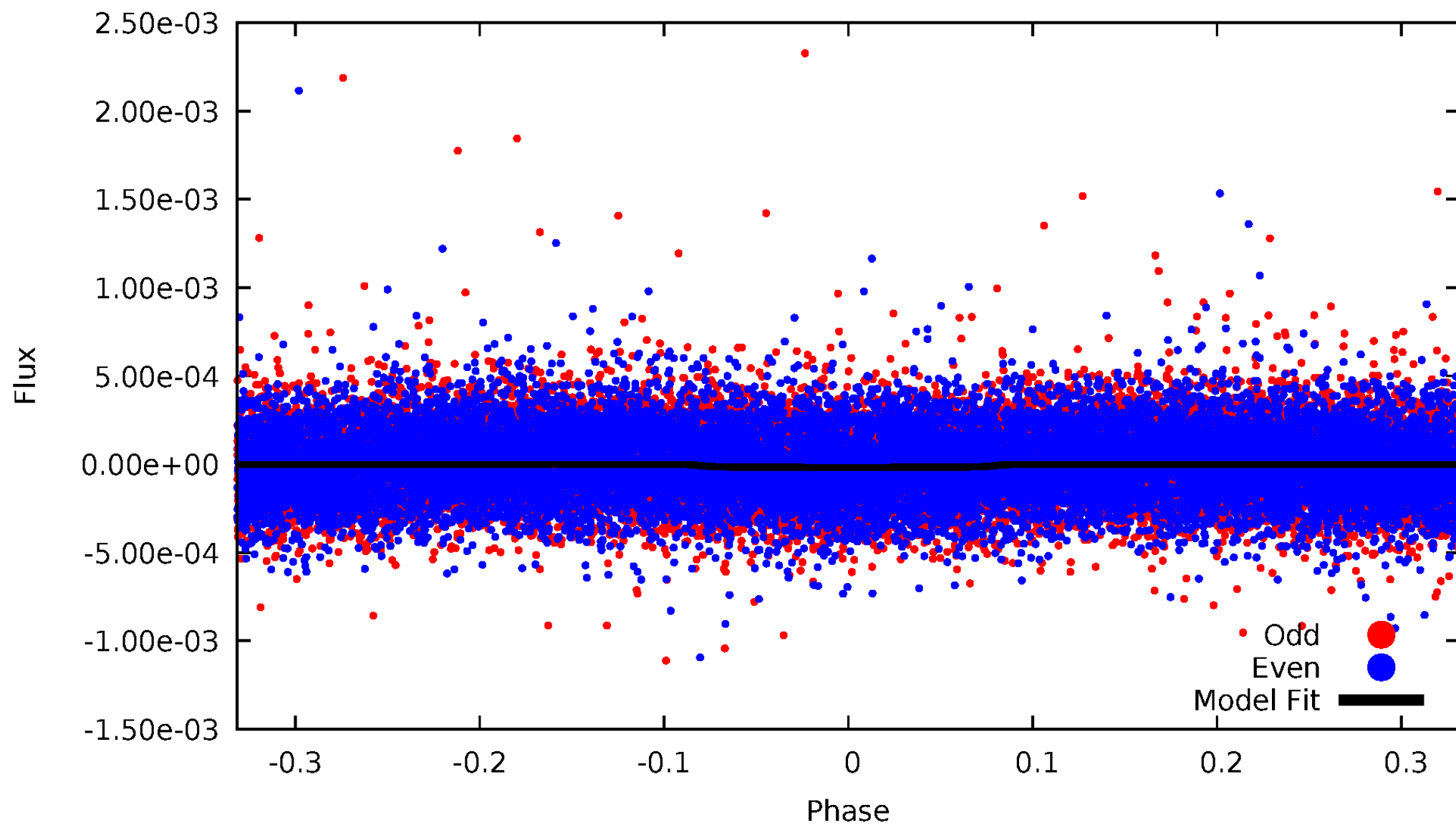


TCE 005467531-03



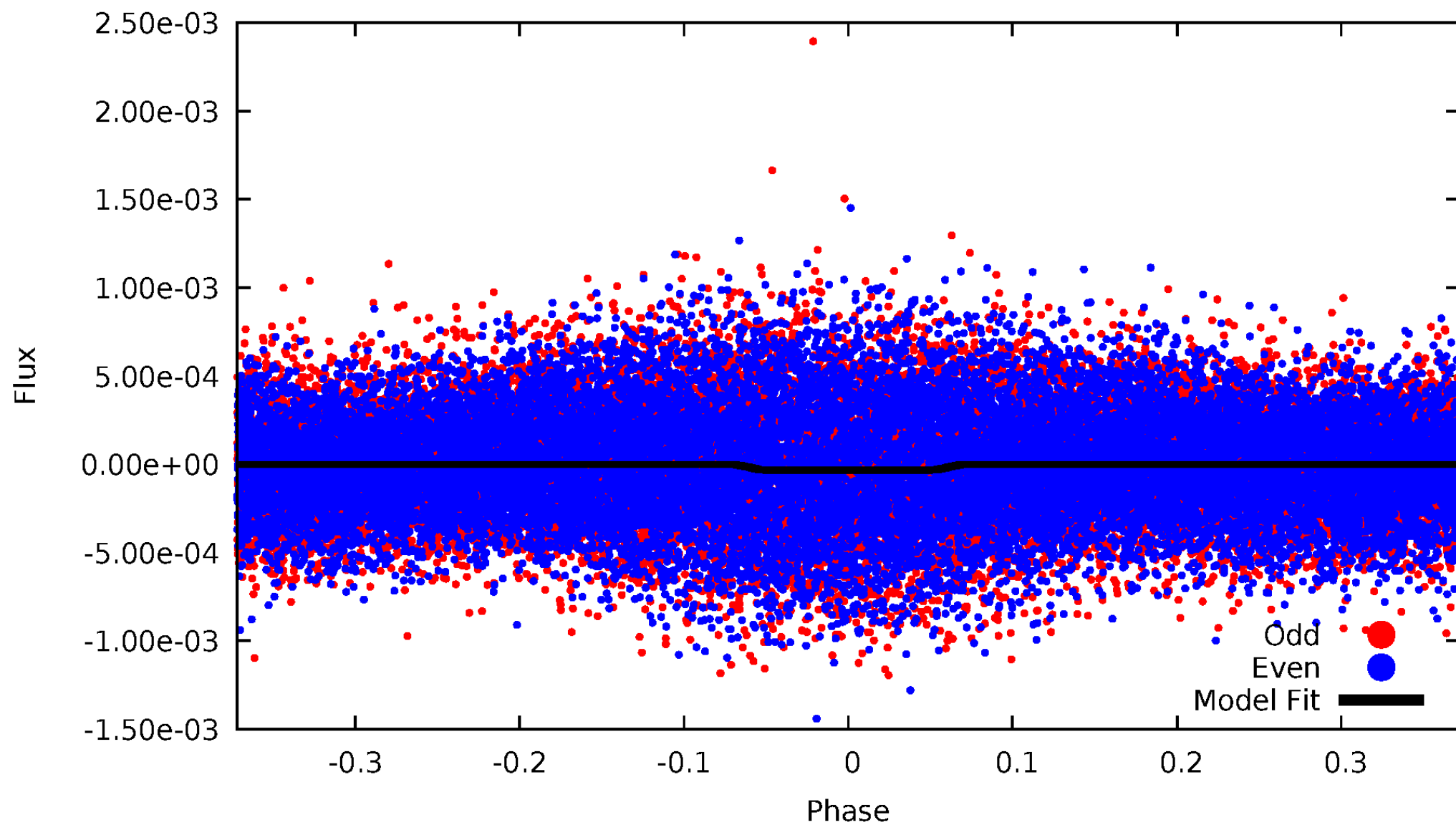
DV Odd/Even

TCE 005467531-03



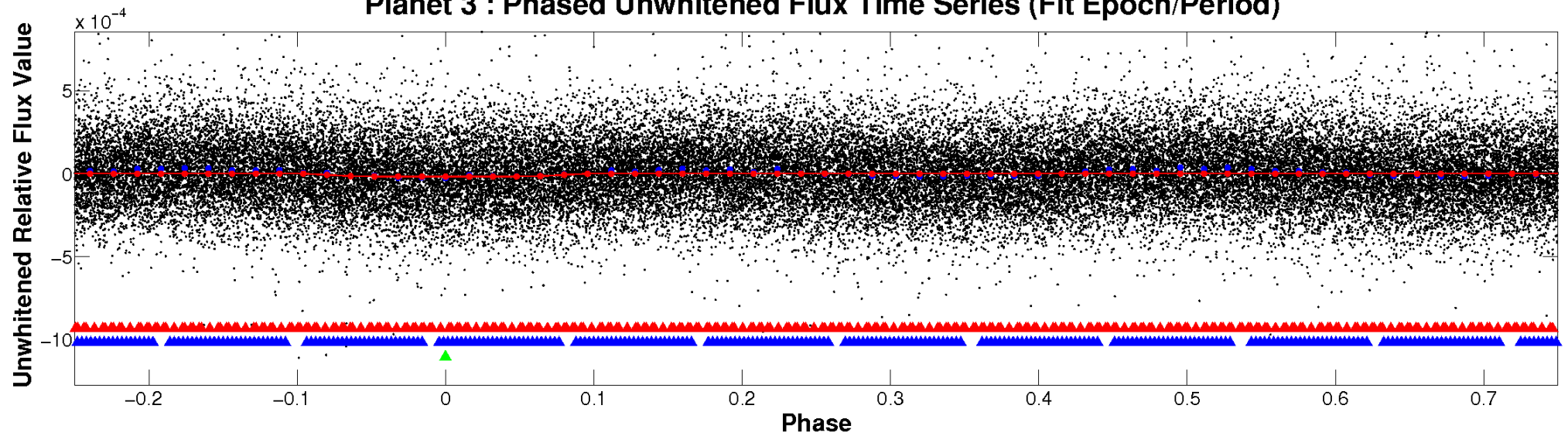
ALT Odd/Even

TCE 005467531-03

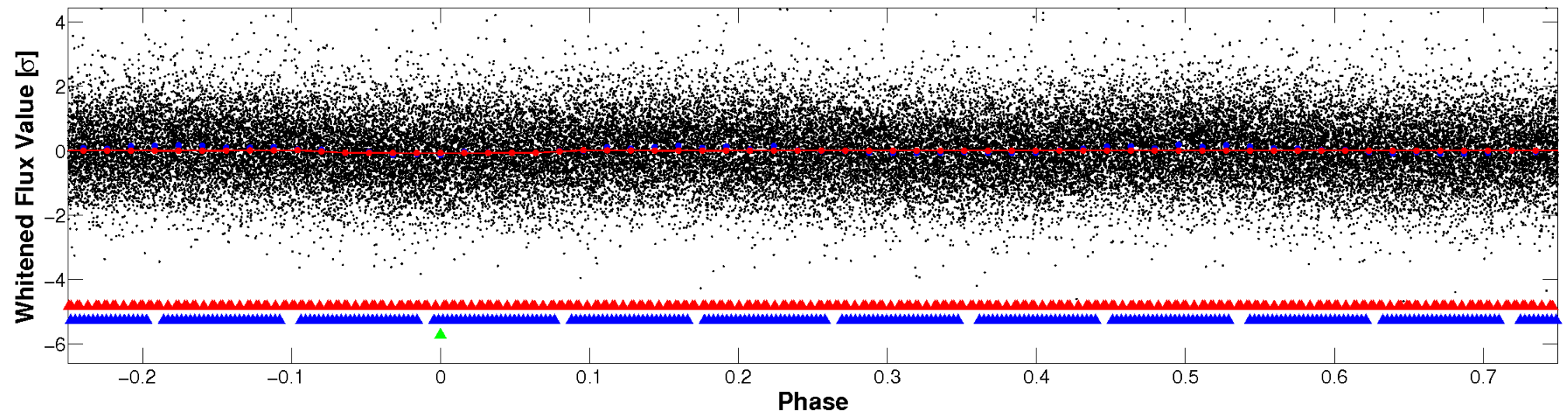


Non-Whitened Vs. Whitened Light Curve

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

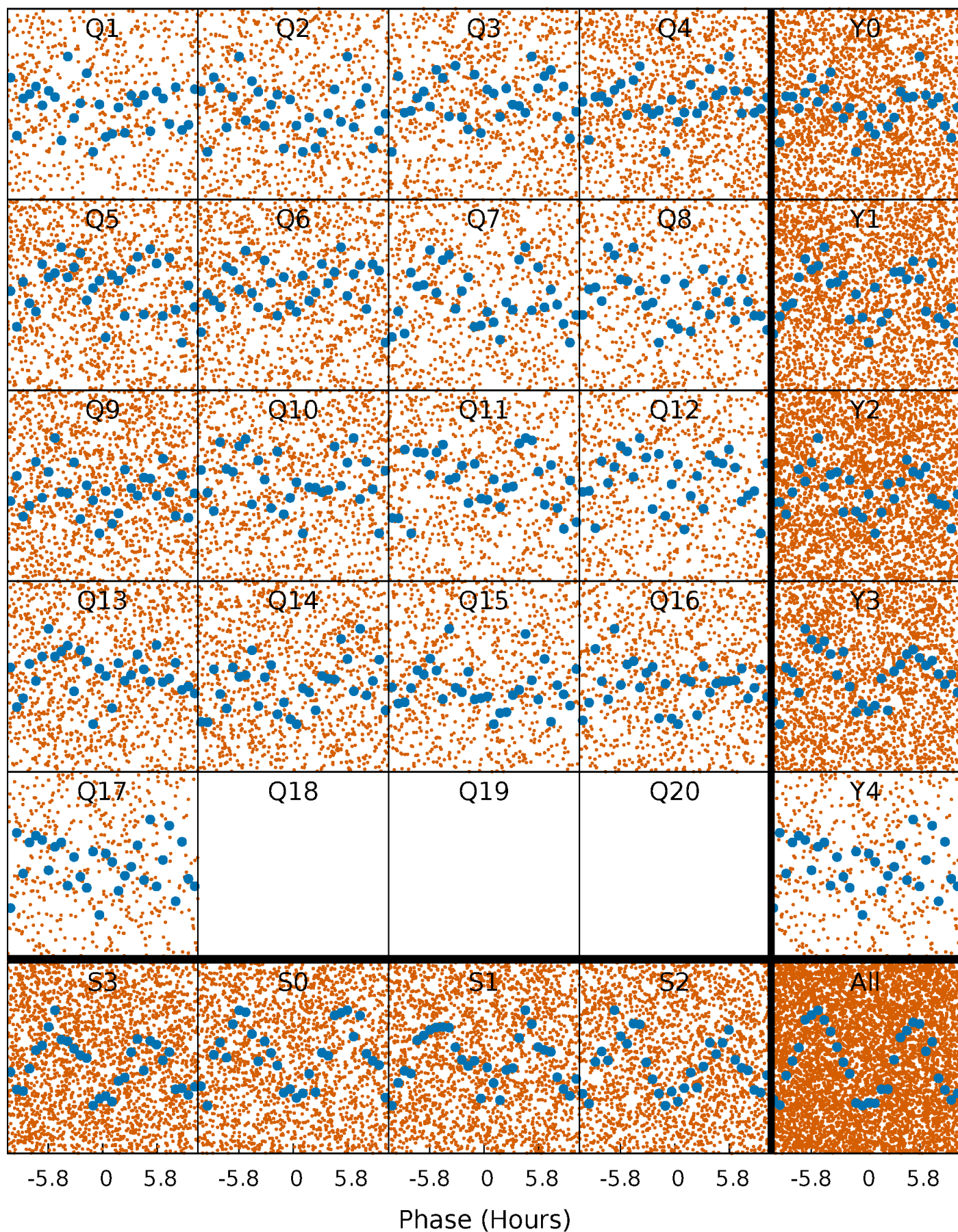


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



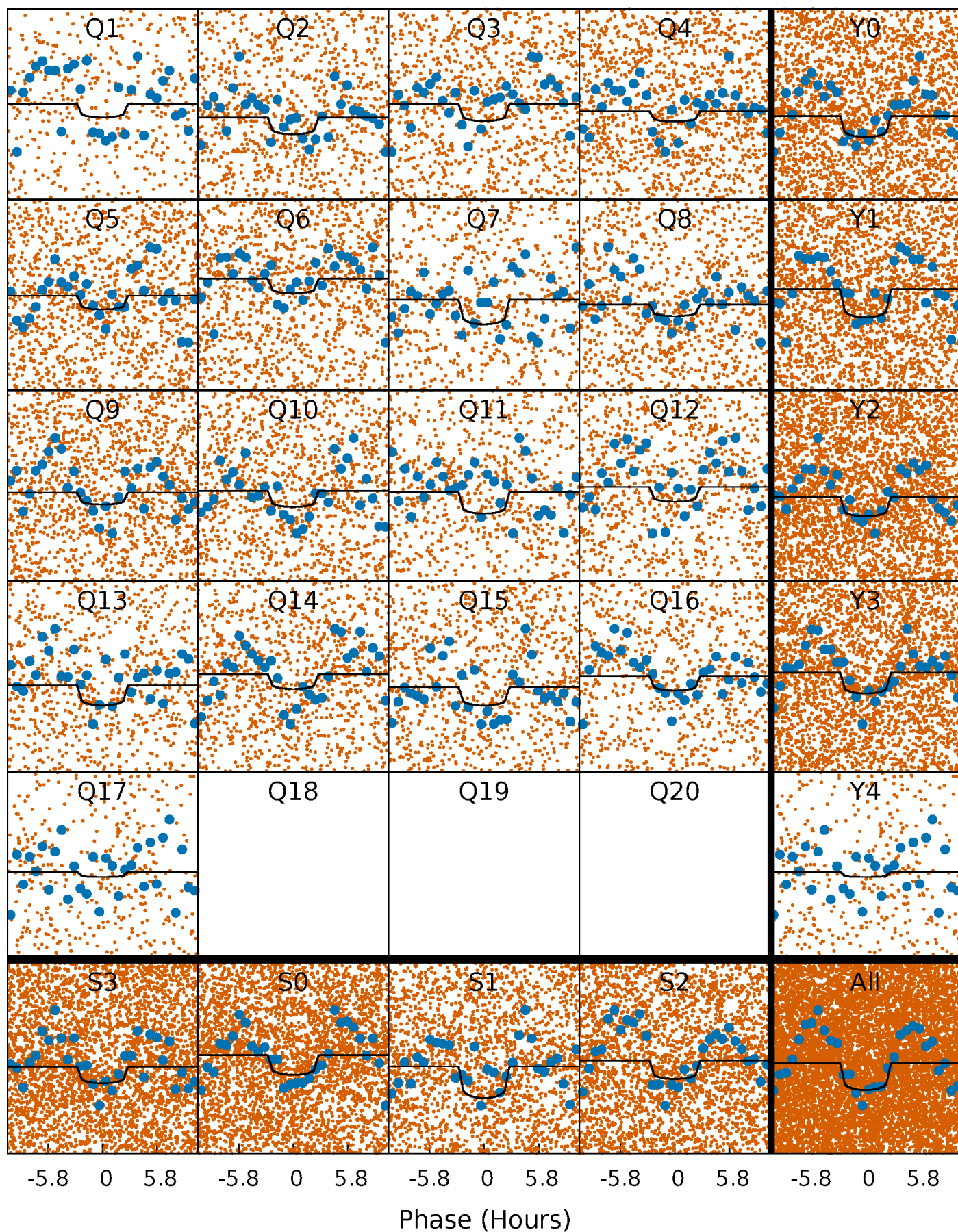
PDC Quarter-Phased Transit Curves

TCE 005467531-03 P= 1.278655 Days $T_0=132.565172$ (BKJD)



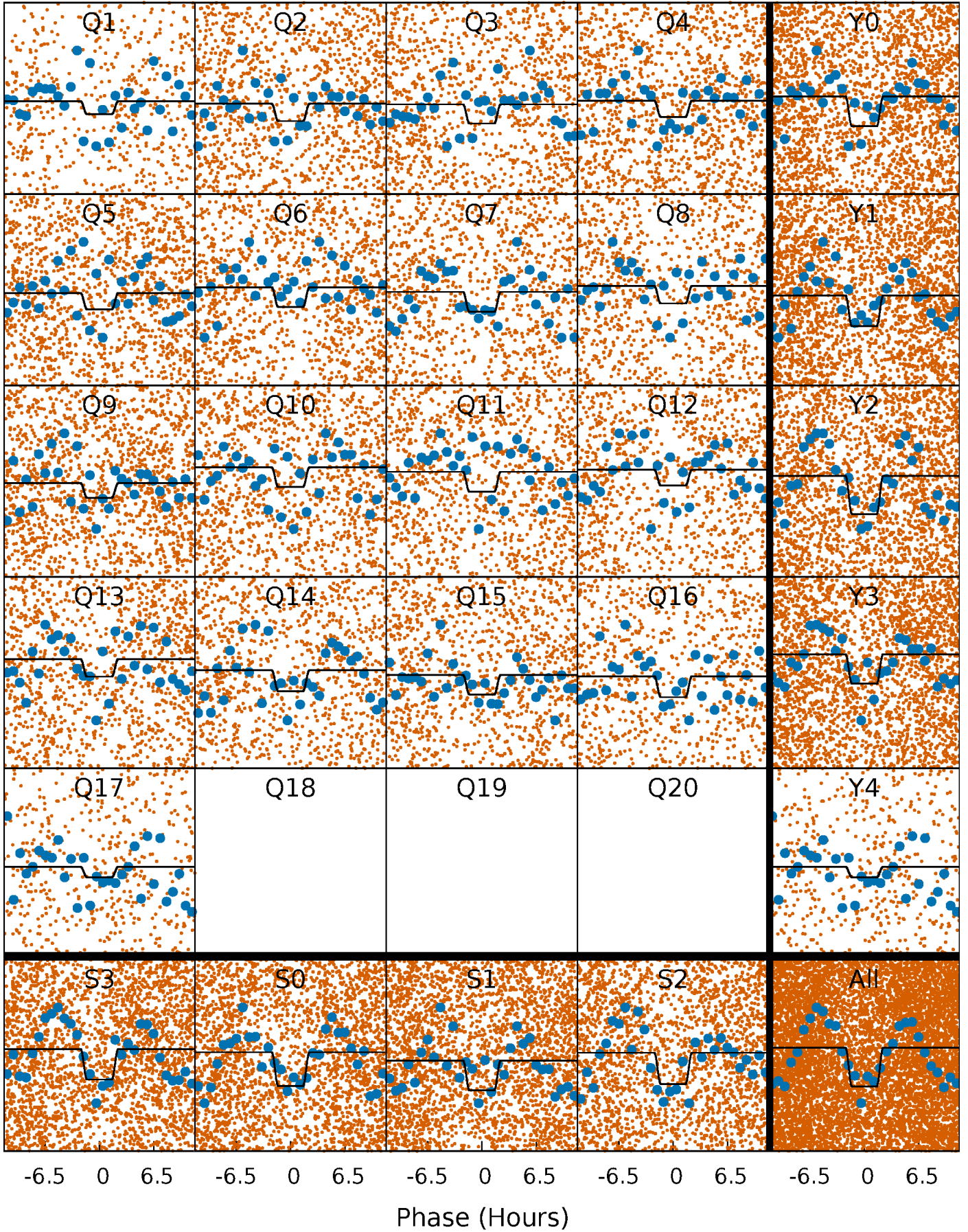
DV Quarter-Phased Transit Curves

TCE 005467531-03 P= 1.278655 Days $T_0=132.565172$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

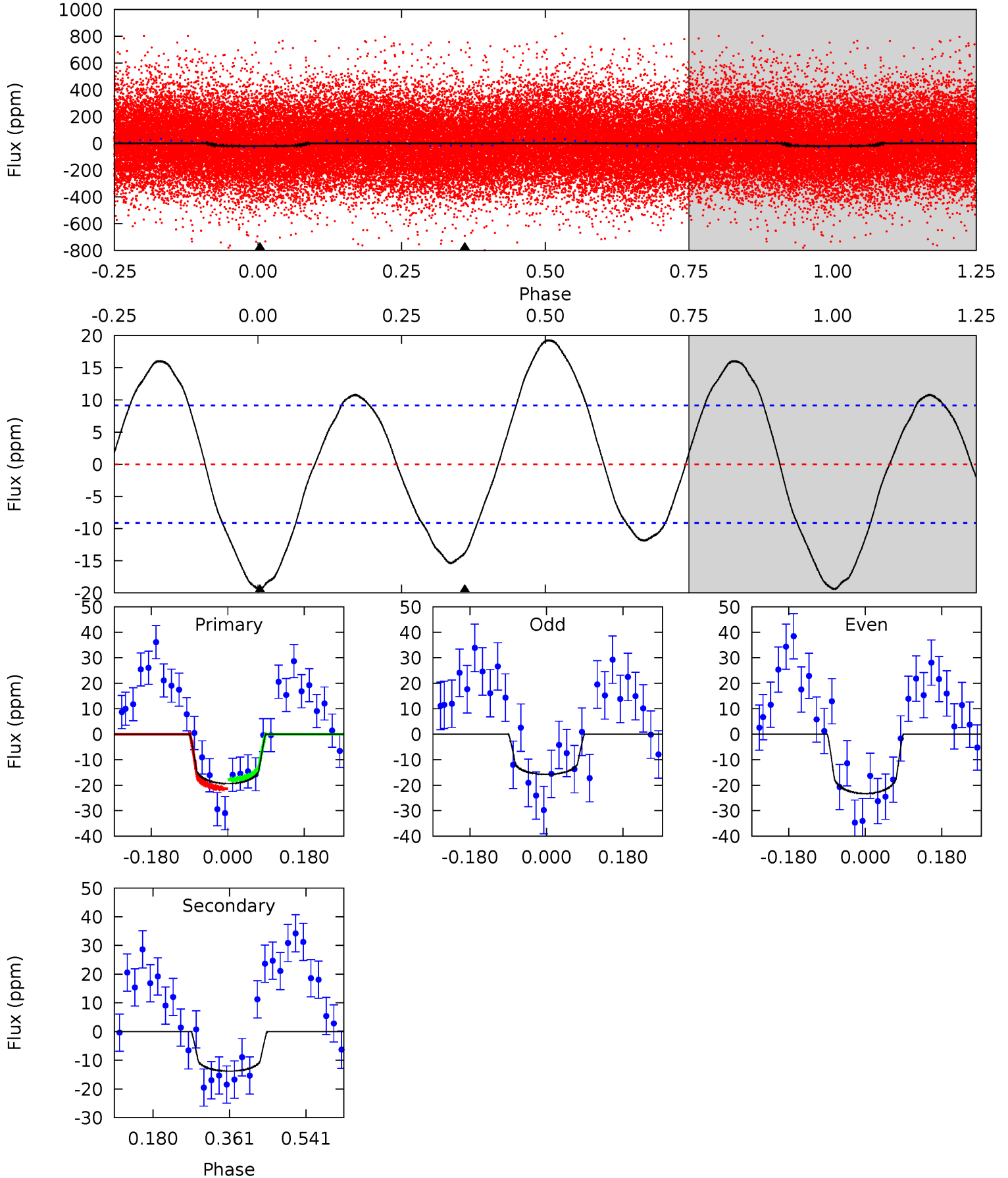
TCE 005467531-03 P= 1.278673 Days $T_0=132.559581$ (BKJD)



DV Model-Shift Uniqueness Test

005467531-03, P = 1.278655 Days, E = 131.286517 Days

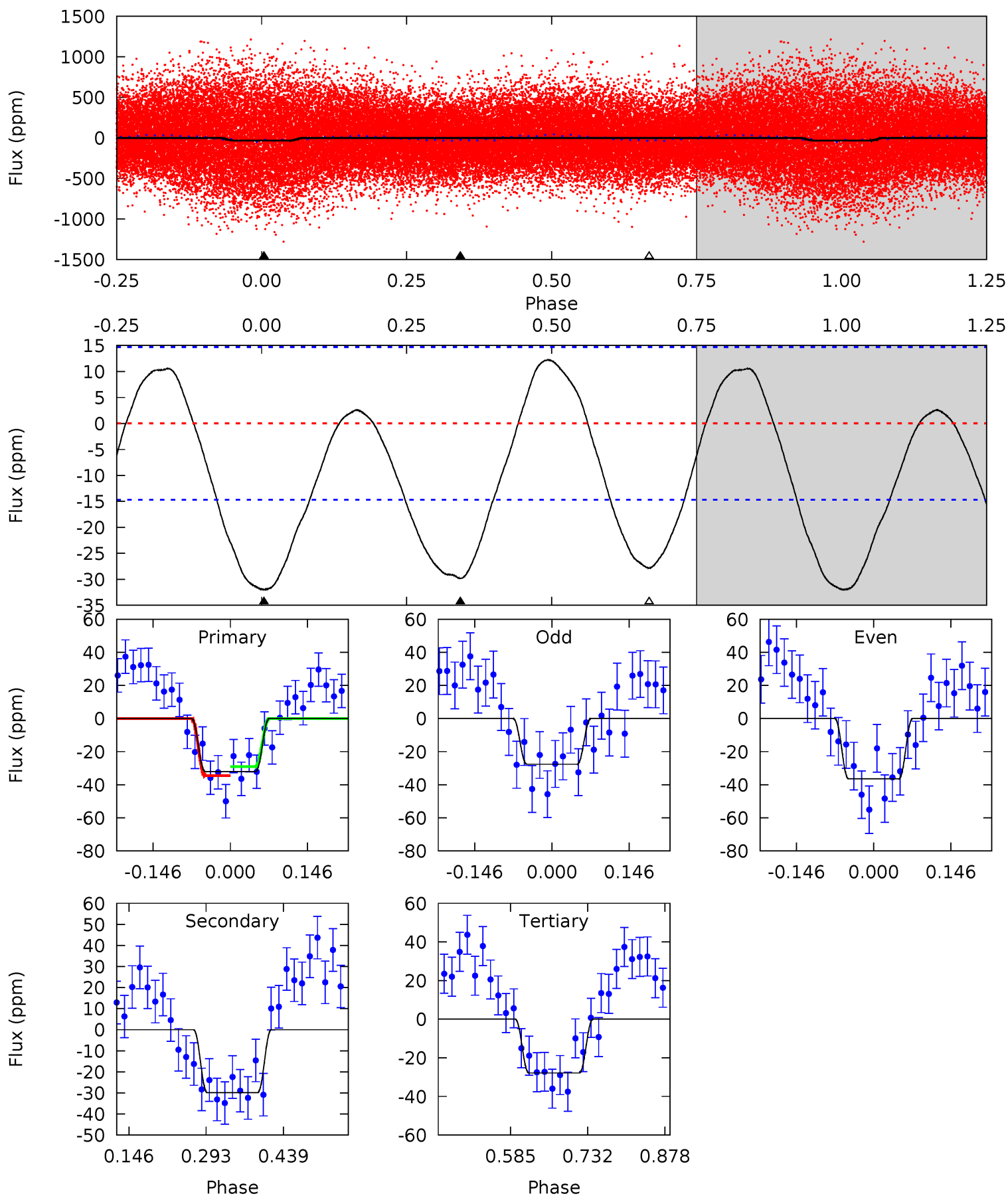
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.42	6.70	0	0	4.44	1.34	4.61	9.42	9.42	6.70	6.70	1.83	1.00	0.50	0.89



Alt Model-Shift Uniqueness Test

005467531-03, P = 1.278673 Days, E = 131.280908 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.76	9.11	8.50	0	4.48	1.45	4.18	1.26	9.76	0.61	9.11	1.34	0.88	0.28	0.76



Stellar Parameters For KIC 005467531

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6937^{+191}_{-286}	$4.364^{+0.054}_{-0.216}$	$-0.300^{+0.250}_{-0.350}$	$1.198^{+0.422}_{-0.113}$	$1.229^{+0.198}_{-0.165}$	$1.008^{+0.294}_{-0.537}$
	+3%/-4%	+1%/-5%	+83%/-117%	+35%/-9%	+16%/-13%	+29%/-53%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005467531-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-14 ± 2	$0.62^{+0.33}_{-0.27}$	3049^{+235}_{-173}	6200^{+2419}_{-1096}	12^{+25}_{-7}
Alt.	-30 ± 3	$0.80^{+0.32}_{-0.29}$	3034^{+240}_{-157}	6654^{+1892}_{-1041}	16^{+22}_{-8}

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 $A_{\text{obs}} \gg 1.0$

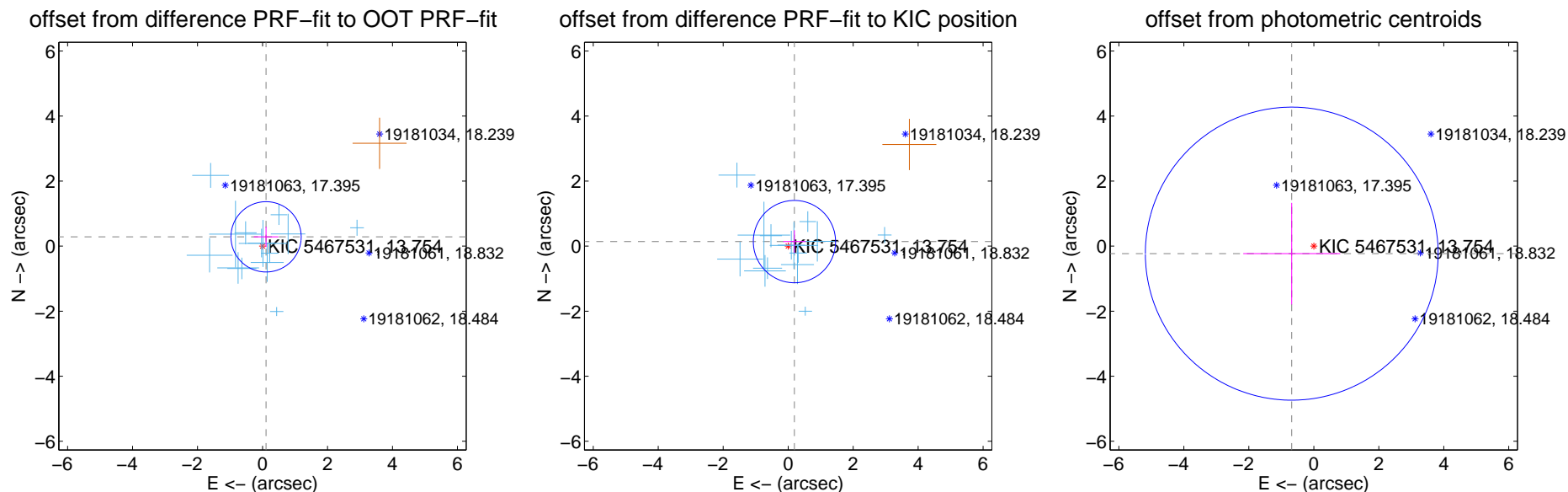
DV Centroid Data

Supplemental centroid analysis for 005467531-03. Kepler magnitude: 13.75. Transit SNR 5.99

There are 14 quarters with good PRF difference image offsets

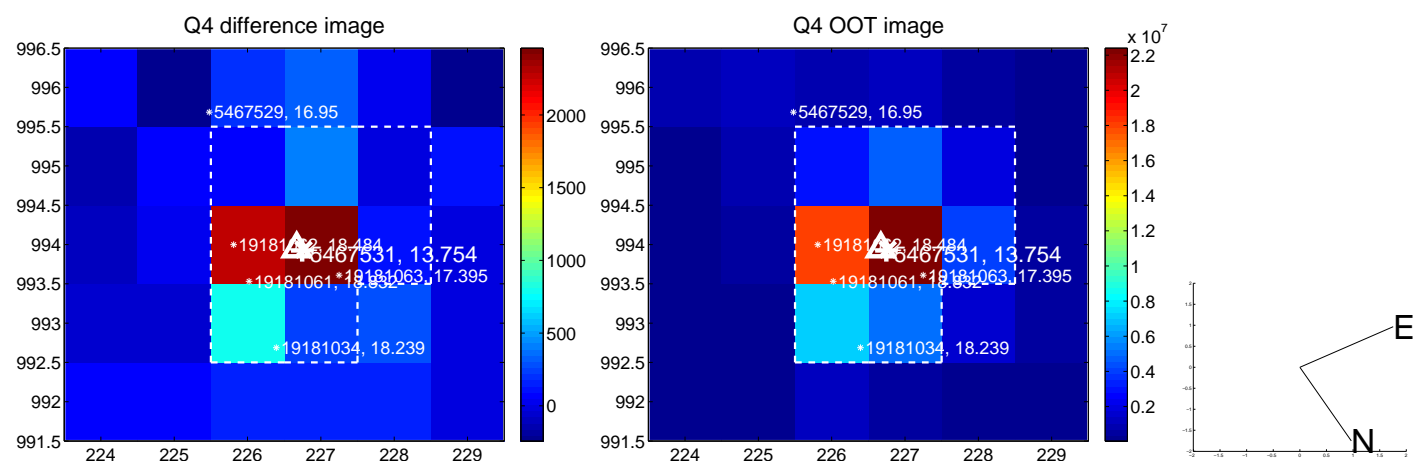
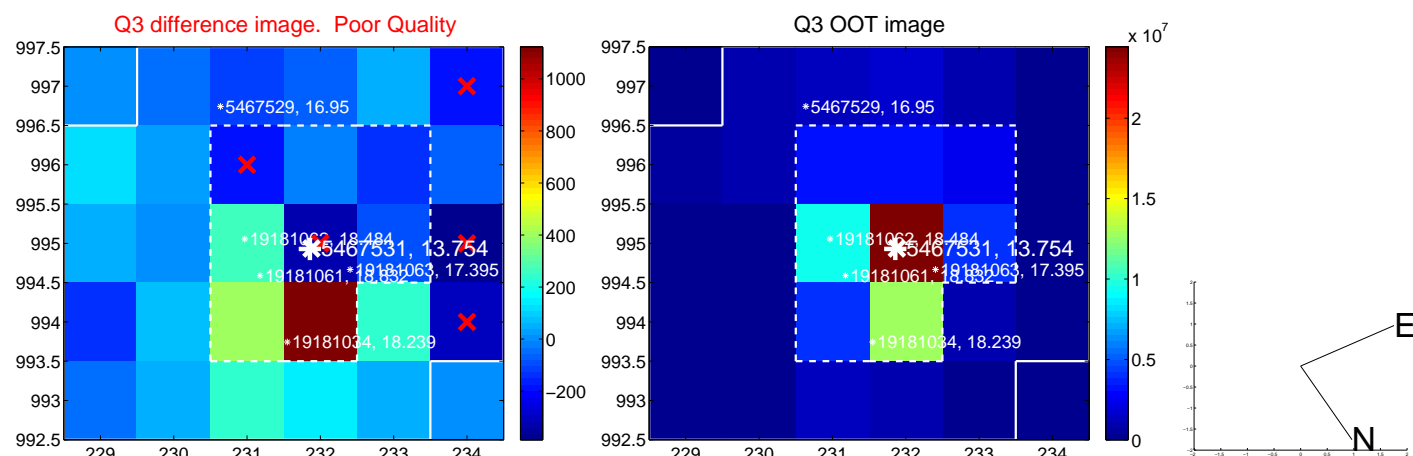
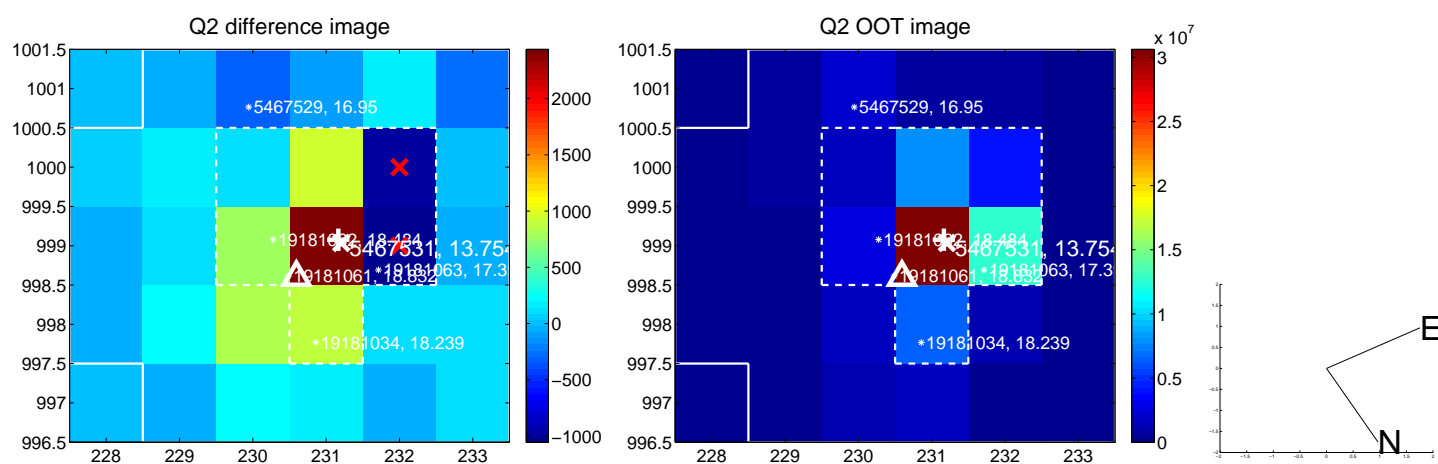
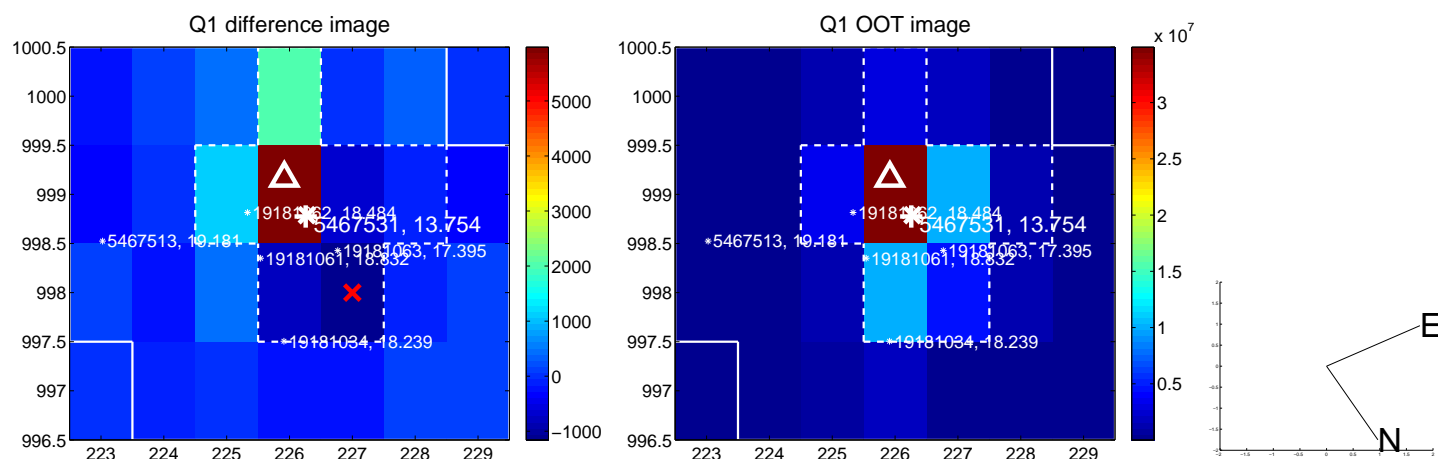
The direct PRF centroid is offset from the target star catalog position by about 0.01 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.306 ± 0.360	0.85	-0.109 ± 0.378	0.286 ± 0.314
PRF-fit source offset from KIC position	0.238 ± 0.422	0.56	-0.192 ± 0.346	0.140 ± 0.349
photometric centroid source offset	0.72 ± 1.50	0.48	0.68 ± 1.49	-0.23 ± 1.56

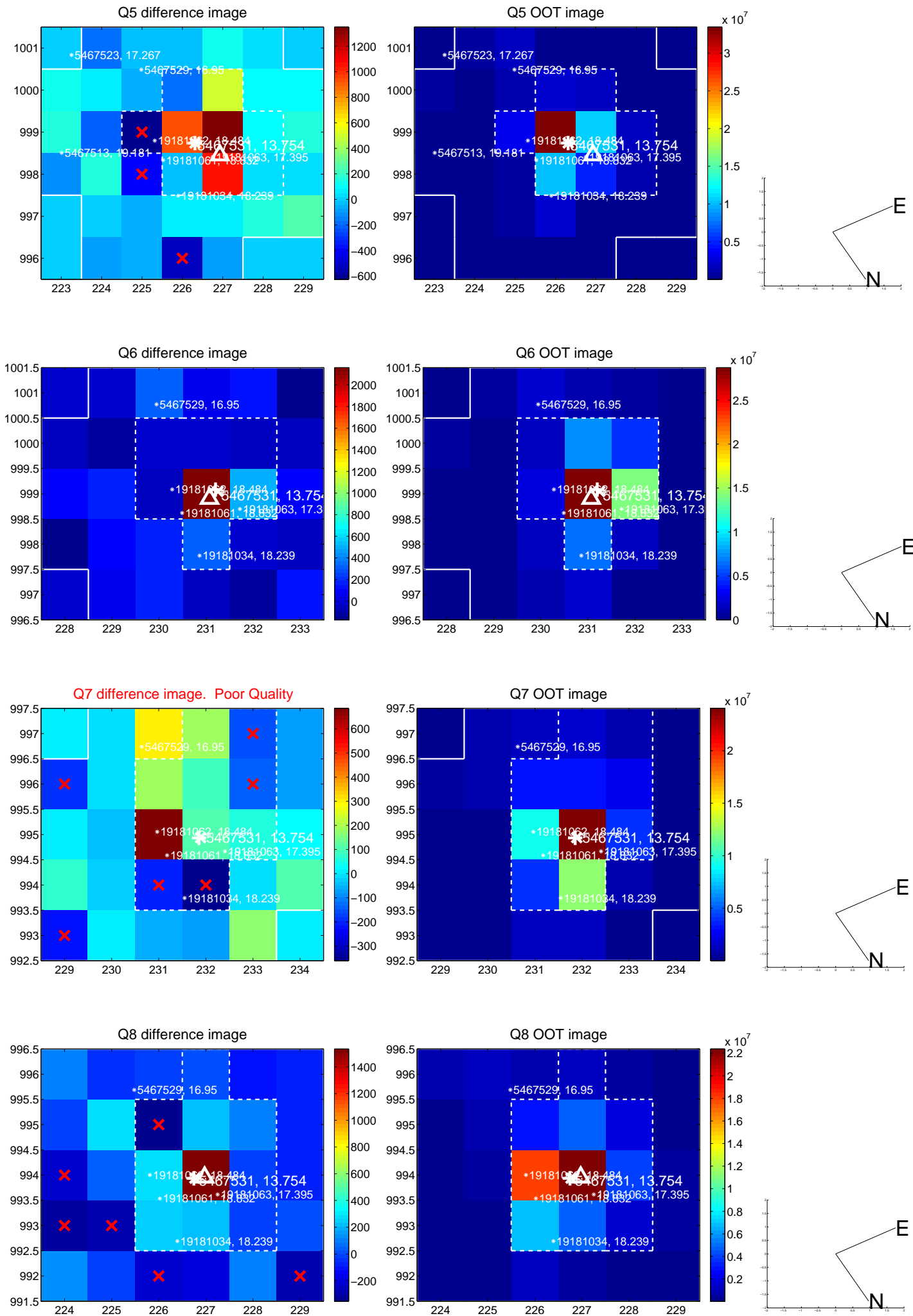


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

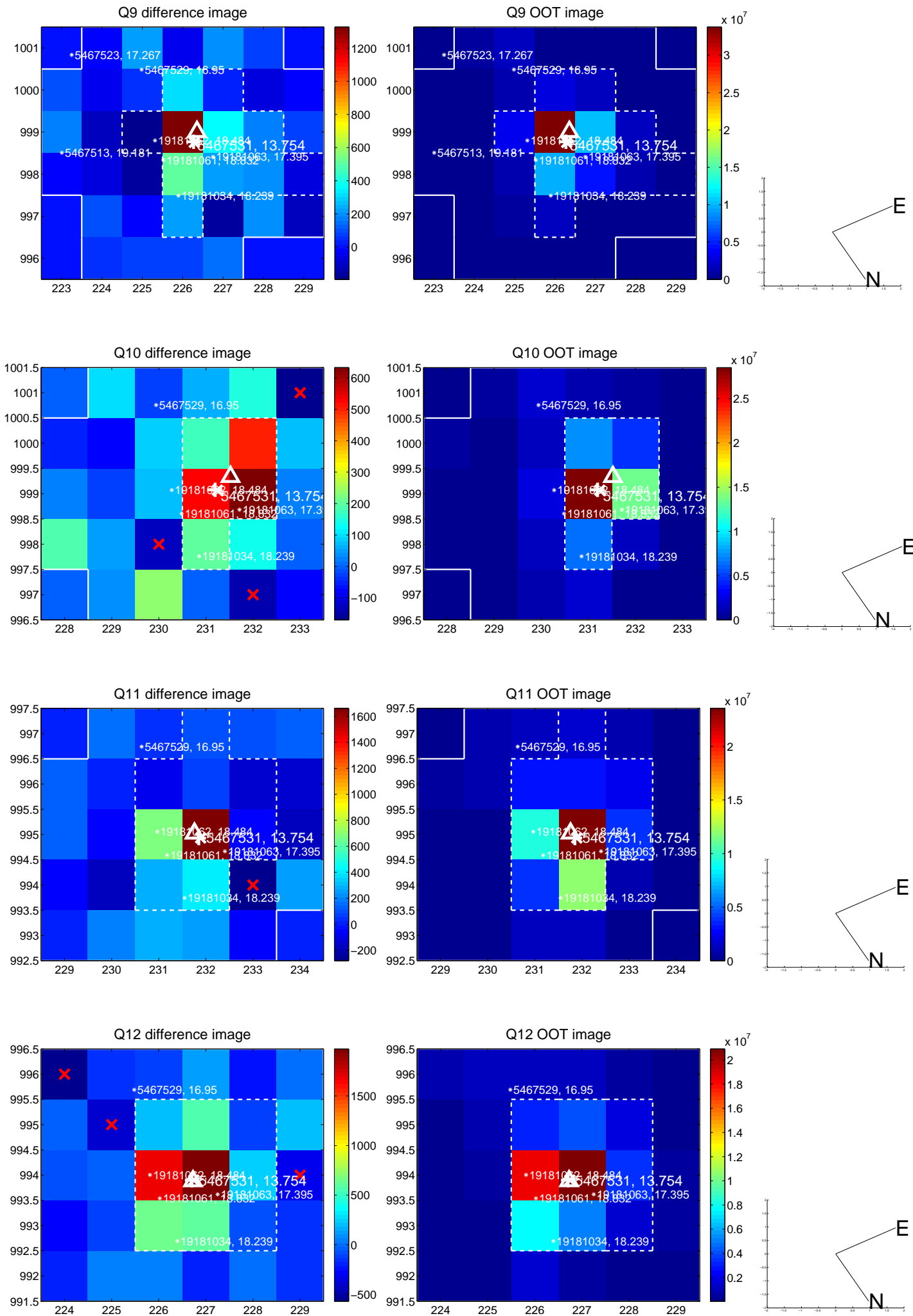
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



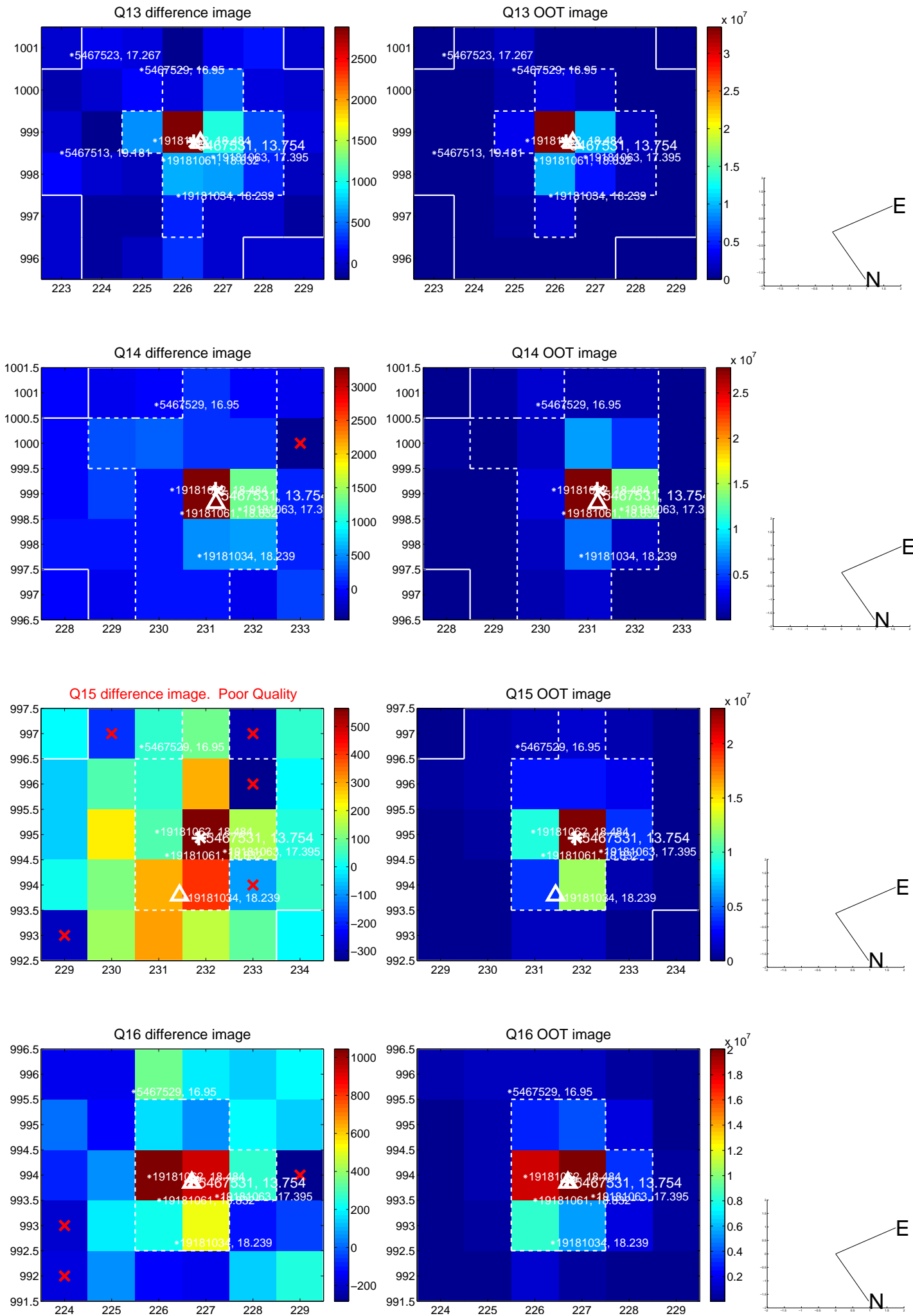
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



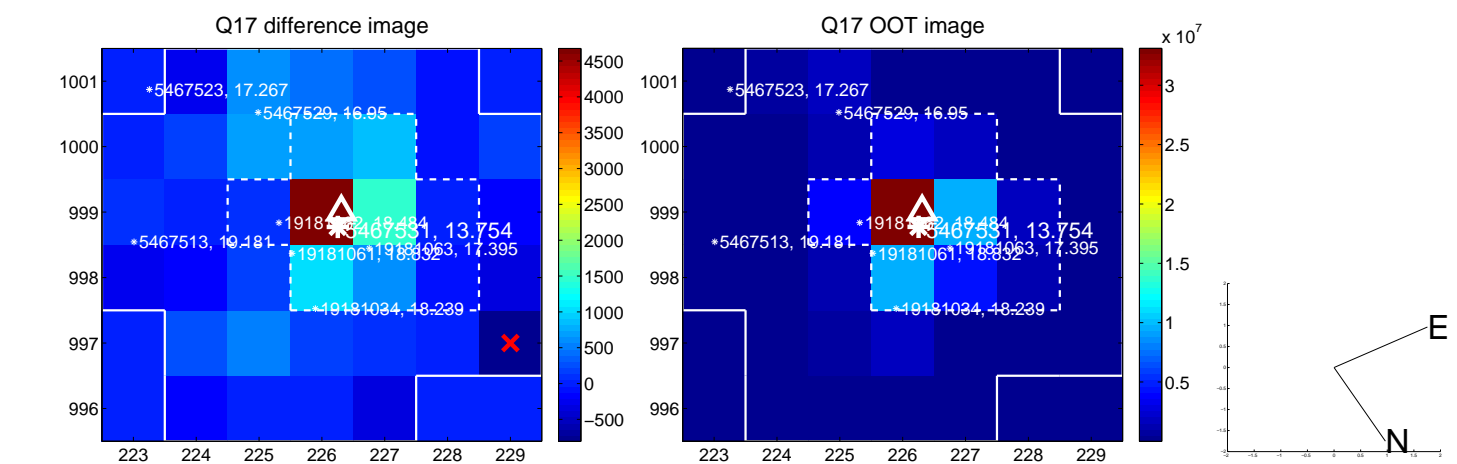
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



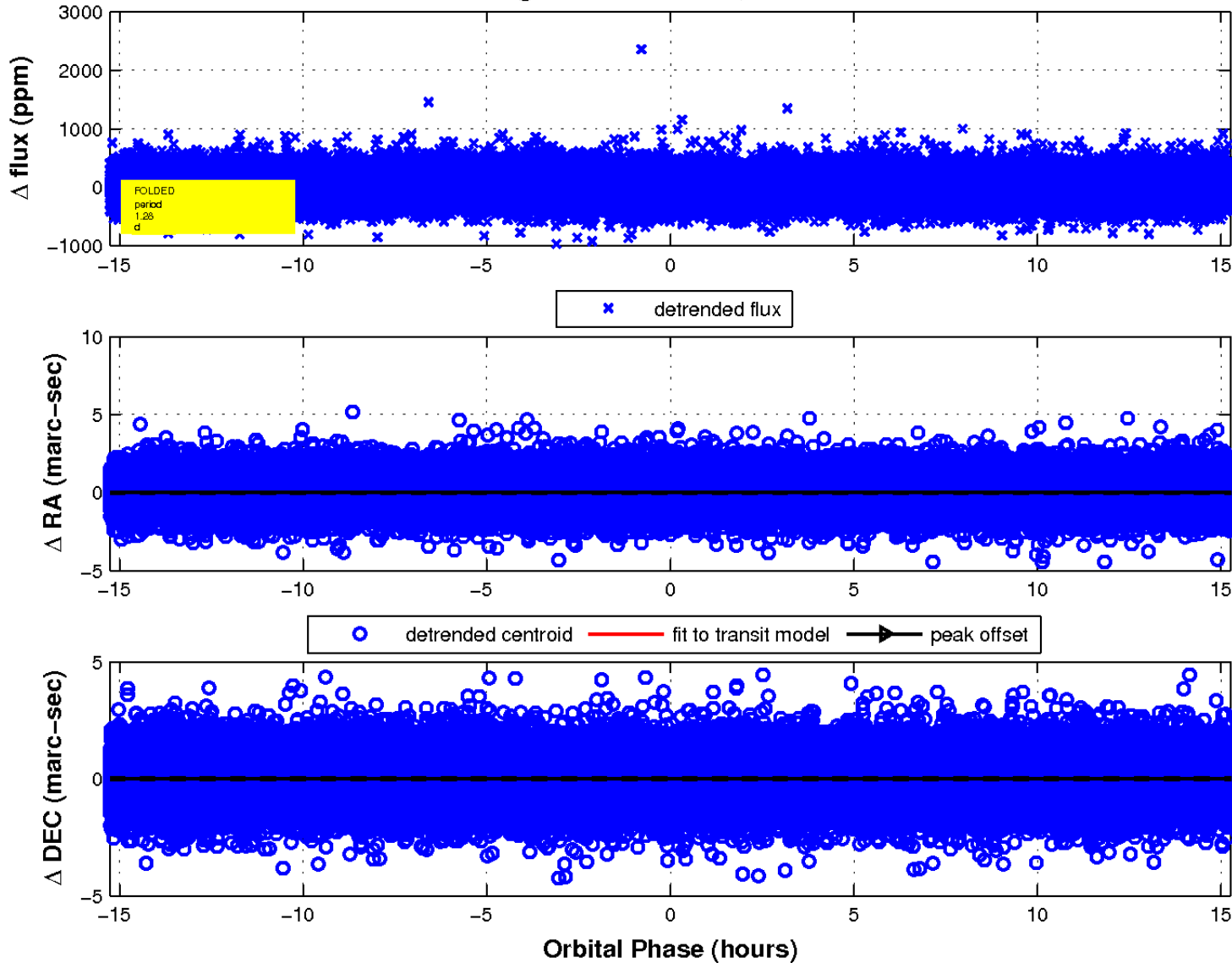
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 3 of 3



UKIRT Image

Declination

