

KIC 007268500

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})
007268500-01	OBS	No	1.678294	133.205268	8.4	7.235	11.0	12.5	3.18	7473	1.06	21974.08
007268500-02	OBS	No	208.344964	204.310322	89.0	6.099	15.2	7.9	3.18	7473	3.47	35.48
007268500-03	OBS	No	3.356524	132.054759	11.0	10.777	10.0	12.0	3.18	7473	1.22	8720.64

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007268500-01	OBS	FP	0.00	1	0	0	0	LPP_DV
007268500-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
007268500-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

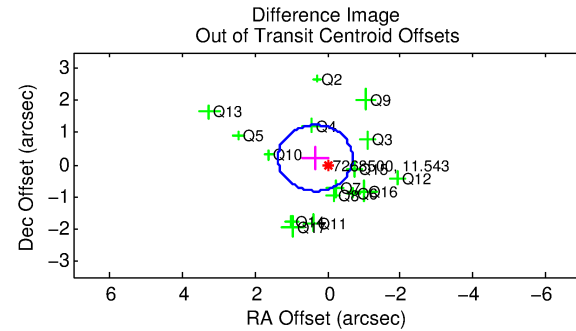
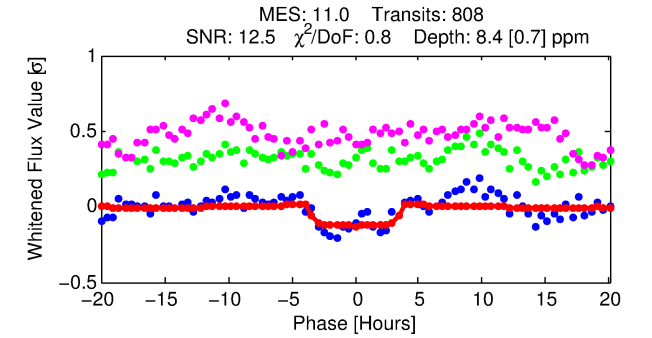
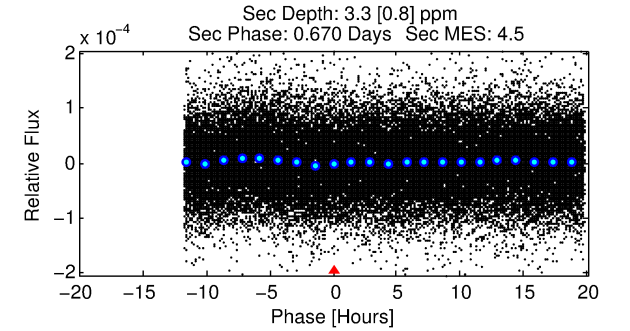
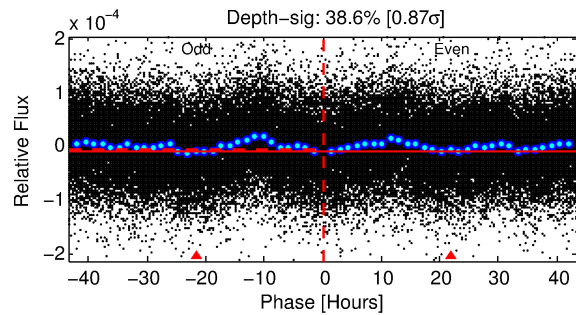
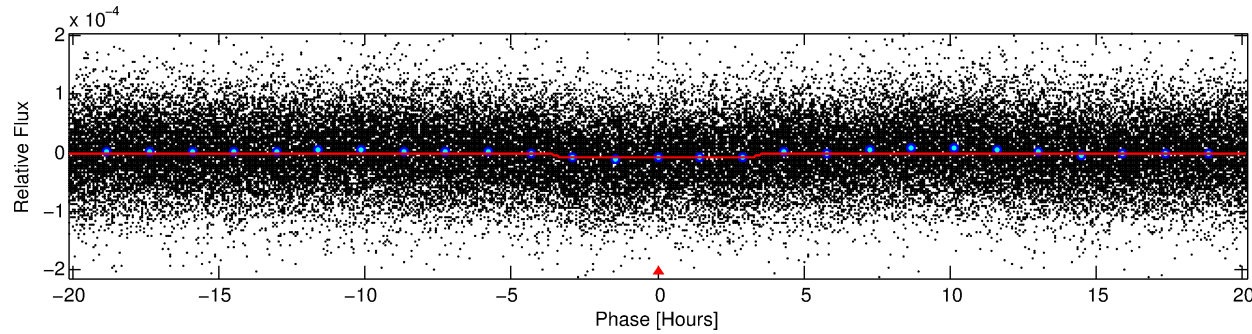
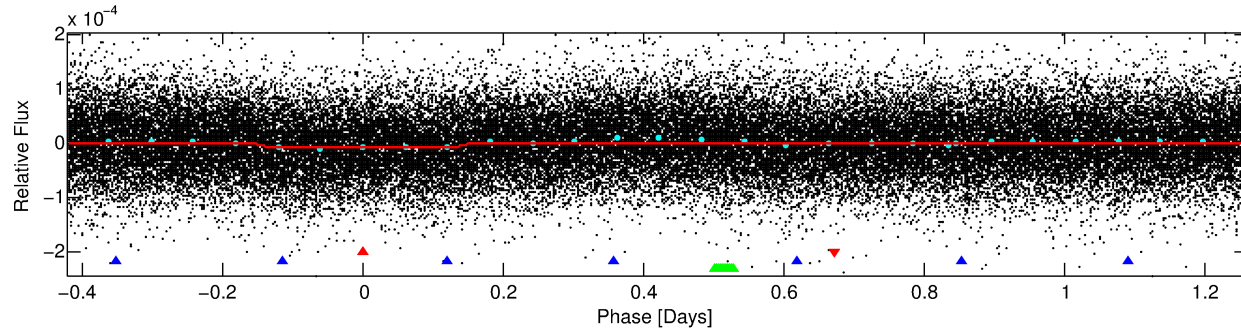
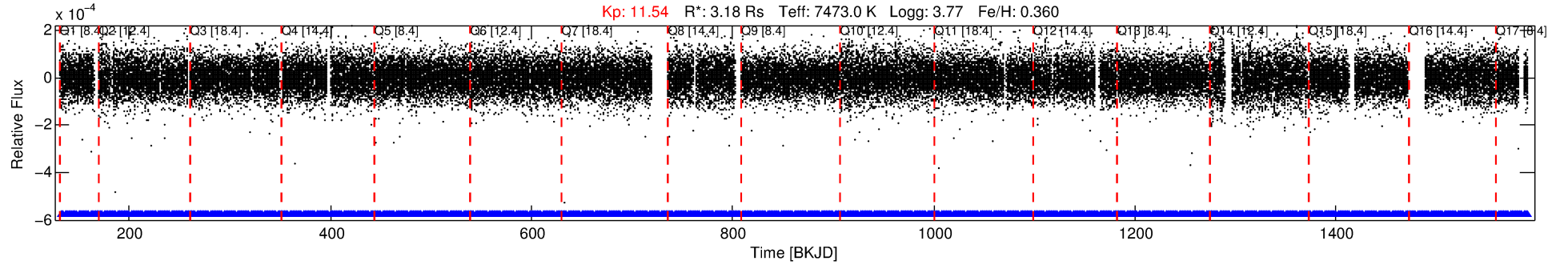
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007268500-01

No Significant Match Found

DV One-Page Summary

KIC: 7268500 Candidate: 1 of 3 Period: 1.678 d



DV Fit Results:

Period = 1.67829 [0.00002] d
Epoch = 133.2053 [0.0051] BKJD
 $R_p/R^* = 0.0031$ [0.0006]
 $a/R^* = 1.26$ [0.56]
 $b = 0.88$ [0.31]
 $\text{Seff} = 21974.08$ [7292.53]
 $T_{\text{eq}} = 3105$ [258] K
 $R_p = 1.06$ [0.33] R_e
 $a = 0.0358$ [0.0077] AU
 $A_g = 2.06$ [1.17] [0.90 σ]
 $T_{\text{eff}} = 5749$ [672] K [3.67 σ]

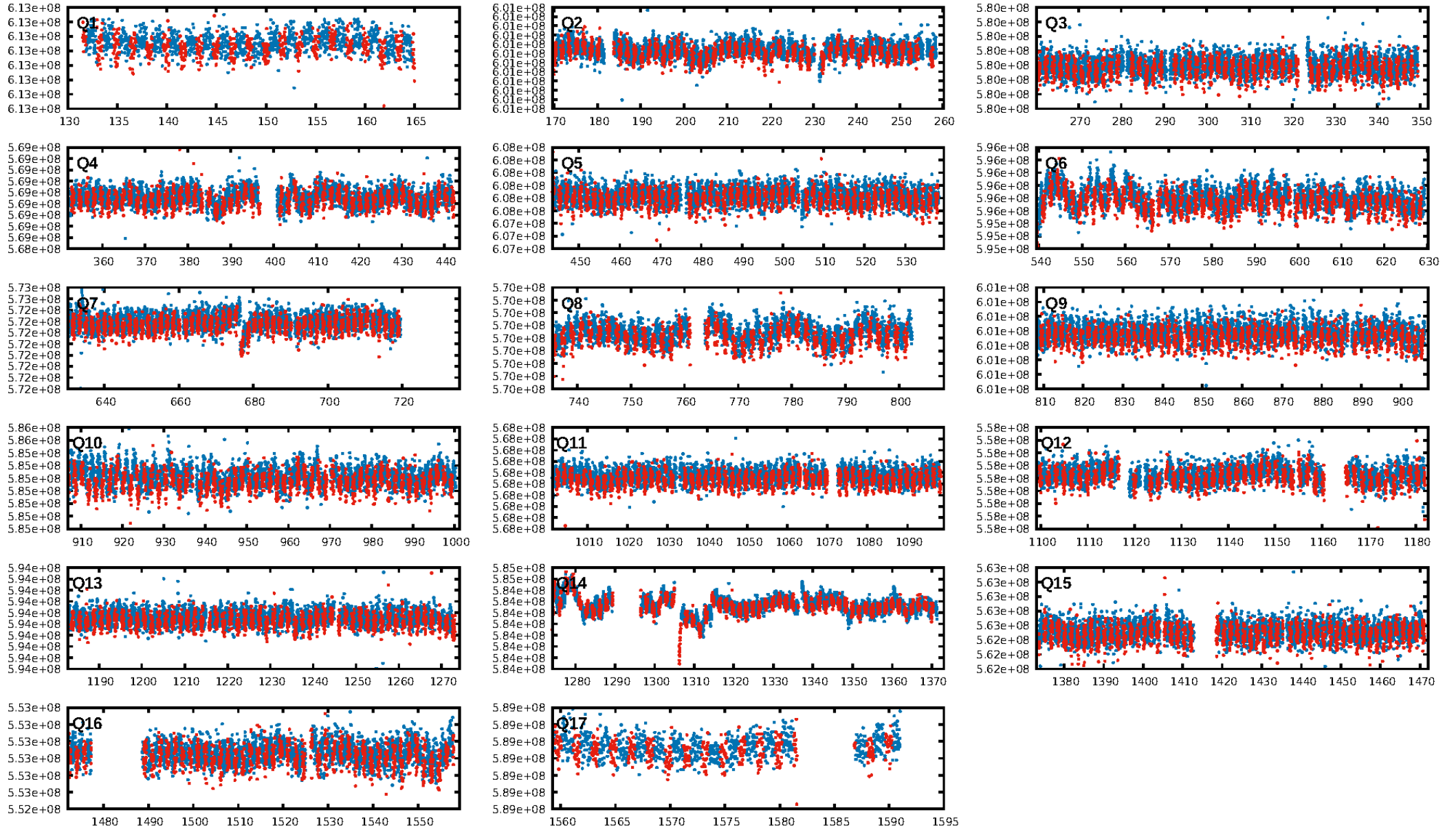
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 99.8% [3.10 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.81e-24
RollingBand-fgt: 1.00 [771/771]
GhostDiagnostic-chr: 2.637
Centroid-sig: 69.9%
Centroid-so: 0.590 arcsec [0.66 σ]
OotOffset-rm: 0.399 arcsec [1.16 σ]
KicOffset-rm: 0.216 arcsec [0.61 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.81 [13/16]
DiffImageOverlap-fno: 1.00 [17/17]

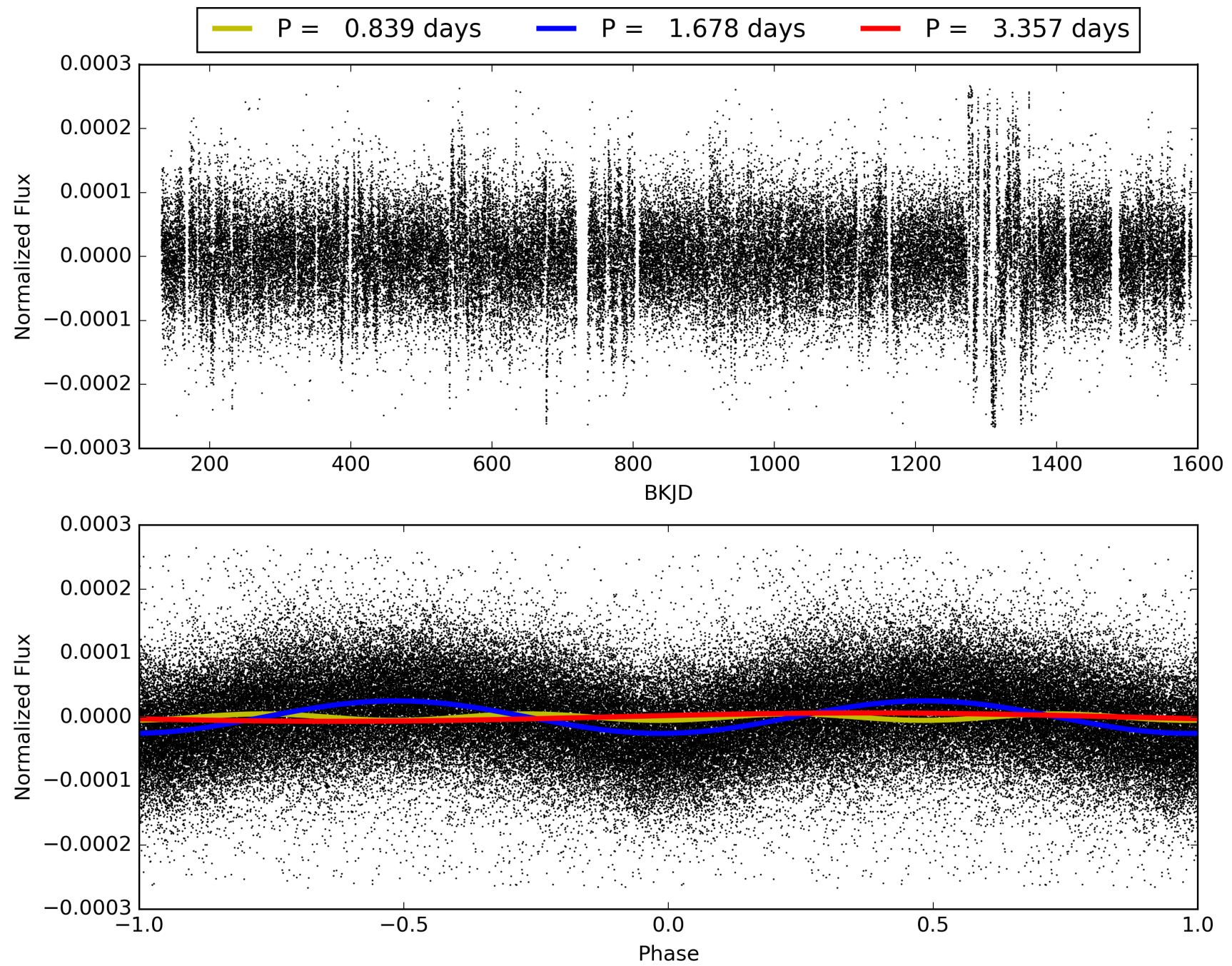
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:22:43 Z

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

TCE 007268500-01, PDC Light Curves

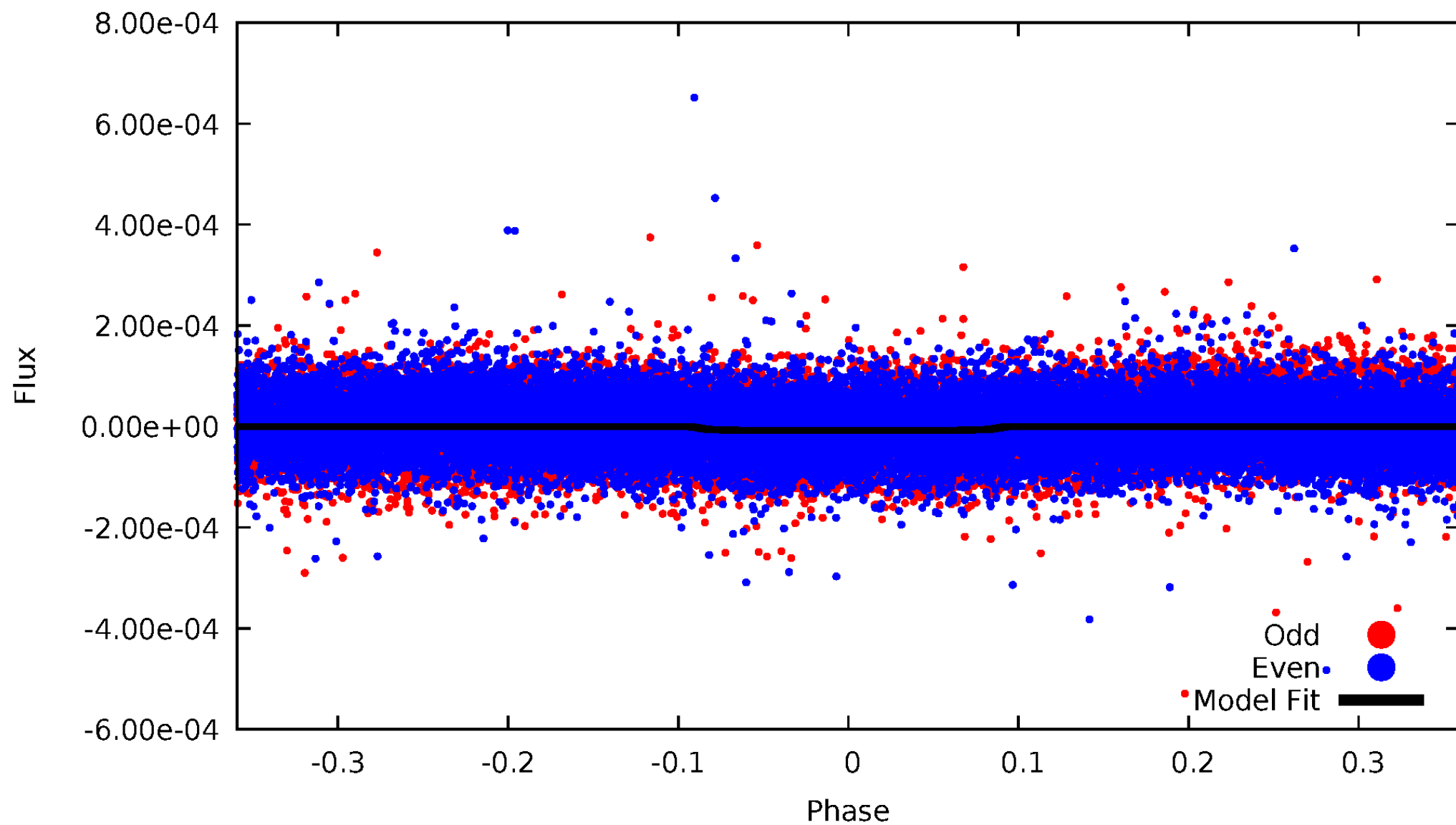


TCE 007268500-01



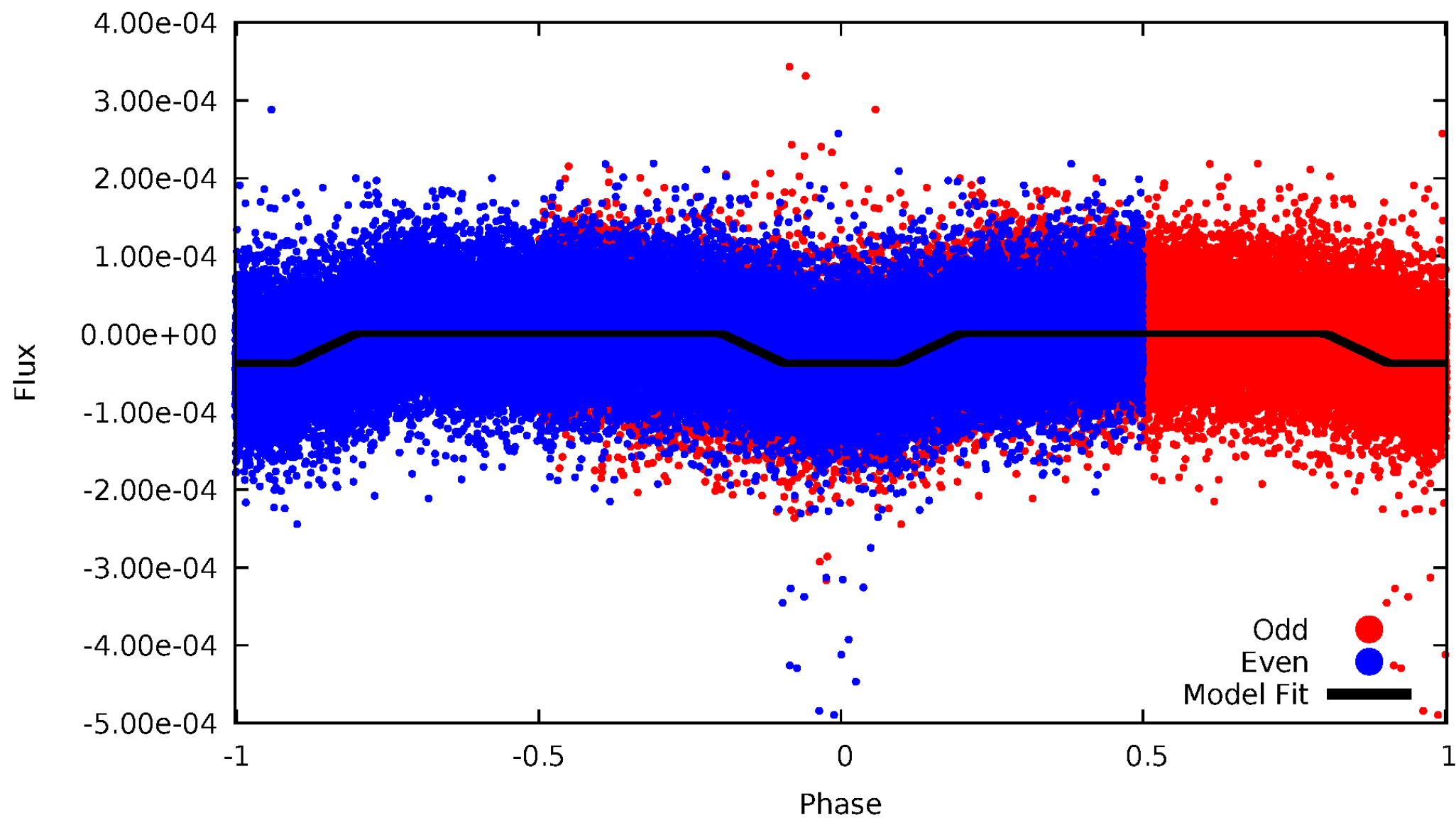
DV Odd/Even

TCE 007268500-01



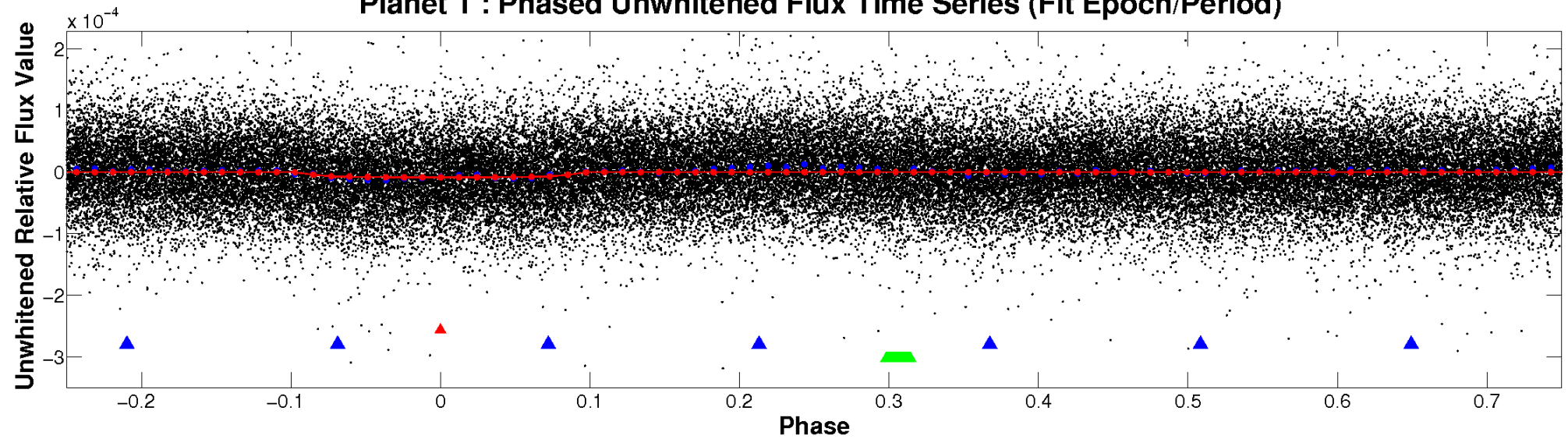
ALT Odd/Even

TCE 007268500-01

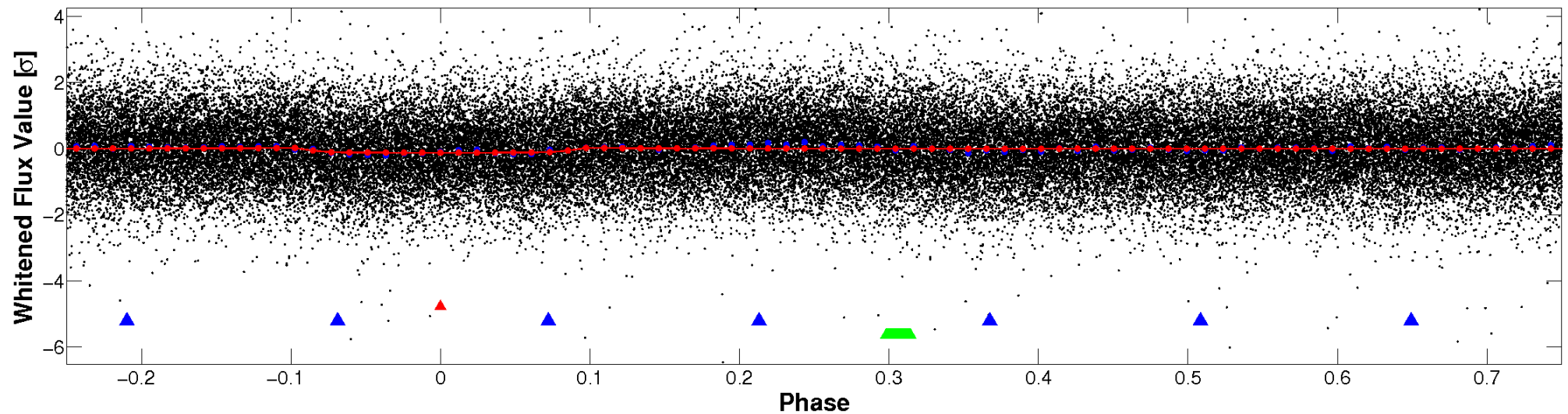


Non-Whitened Vs. Whitened Light Curve

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

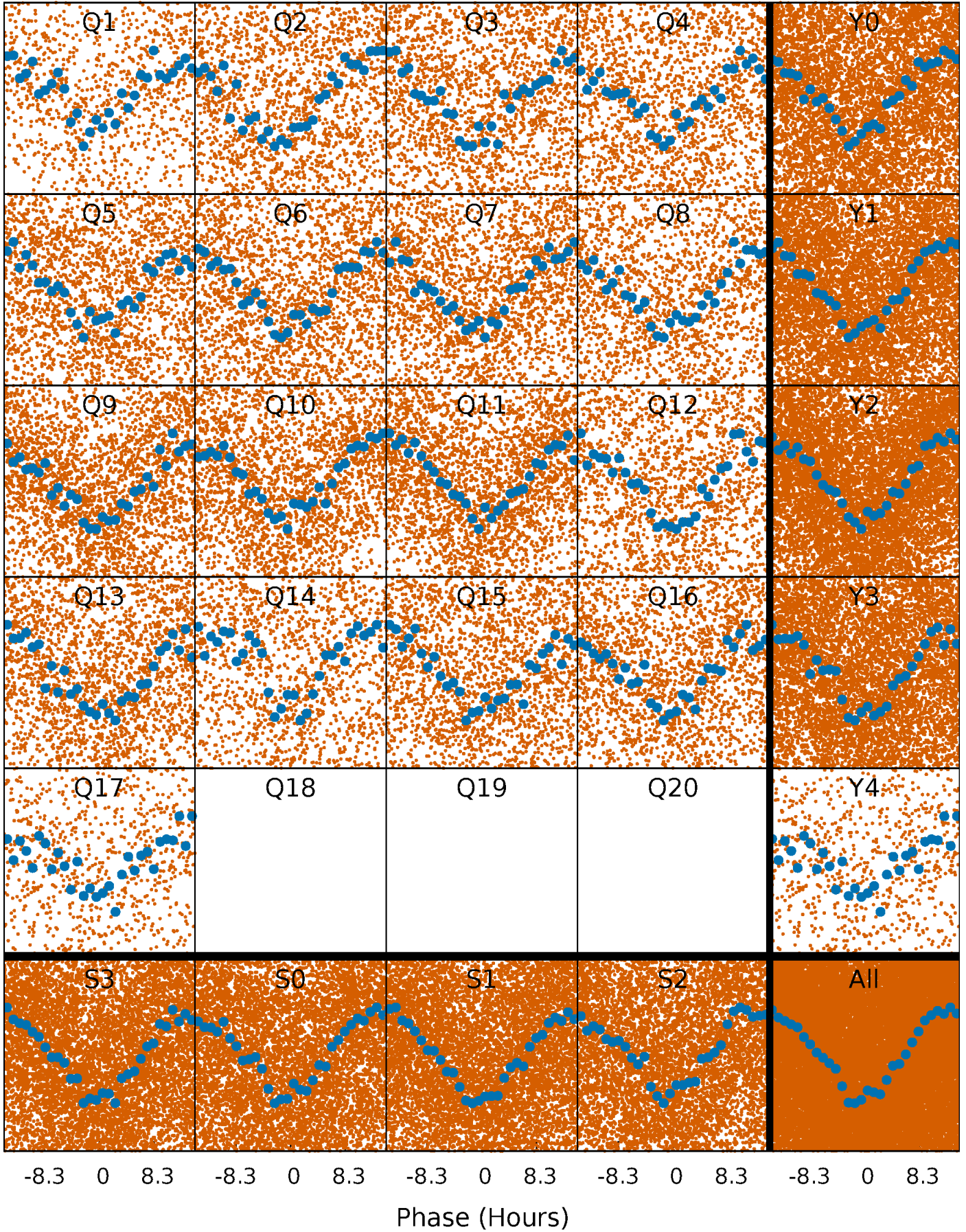


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



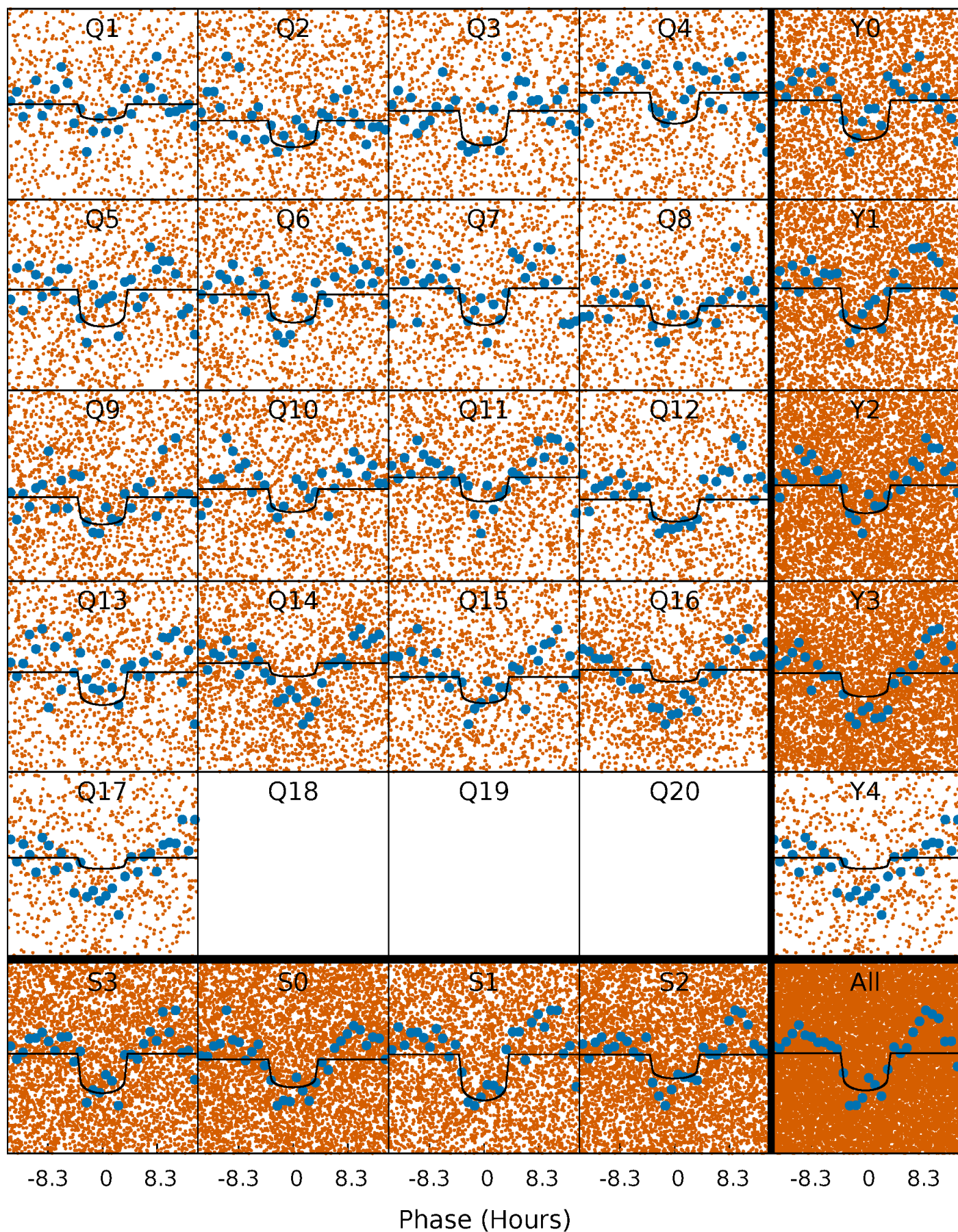
PDC Quarter-Phased Transit Curves

TCE 007268500-01 P= 1.678294 Days $T_0=133.205268$ (BKJD)



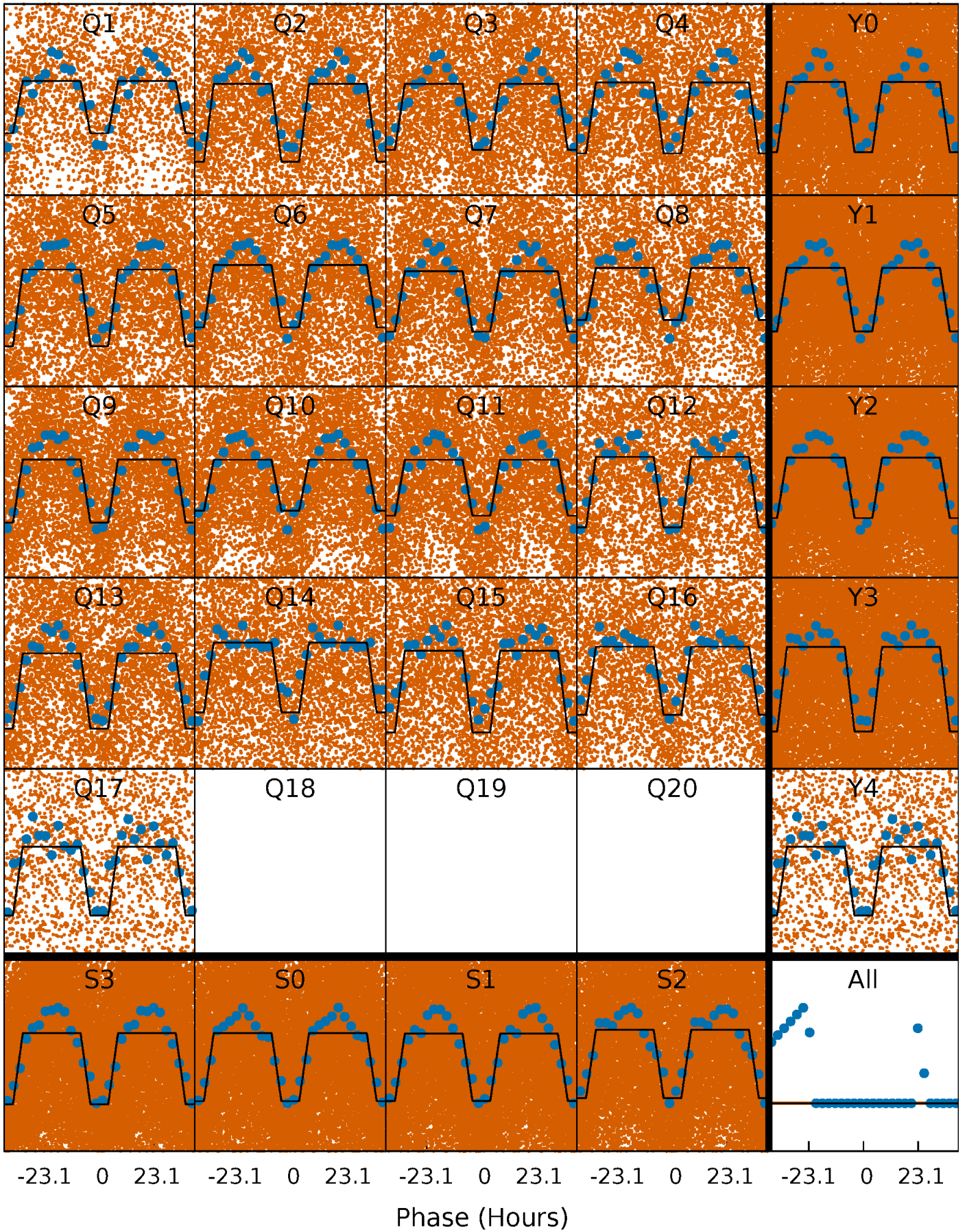
DV Quarter-Phased Transit Curves

TCE 007268500-01 P= 1.678294 Days $T_0=133.205268$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

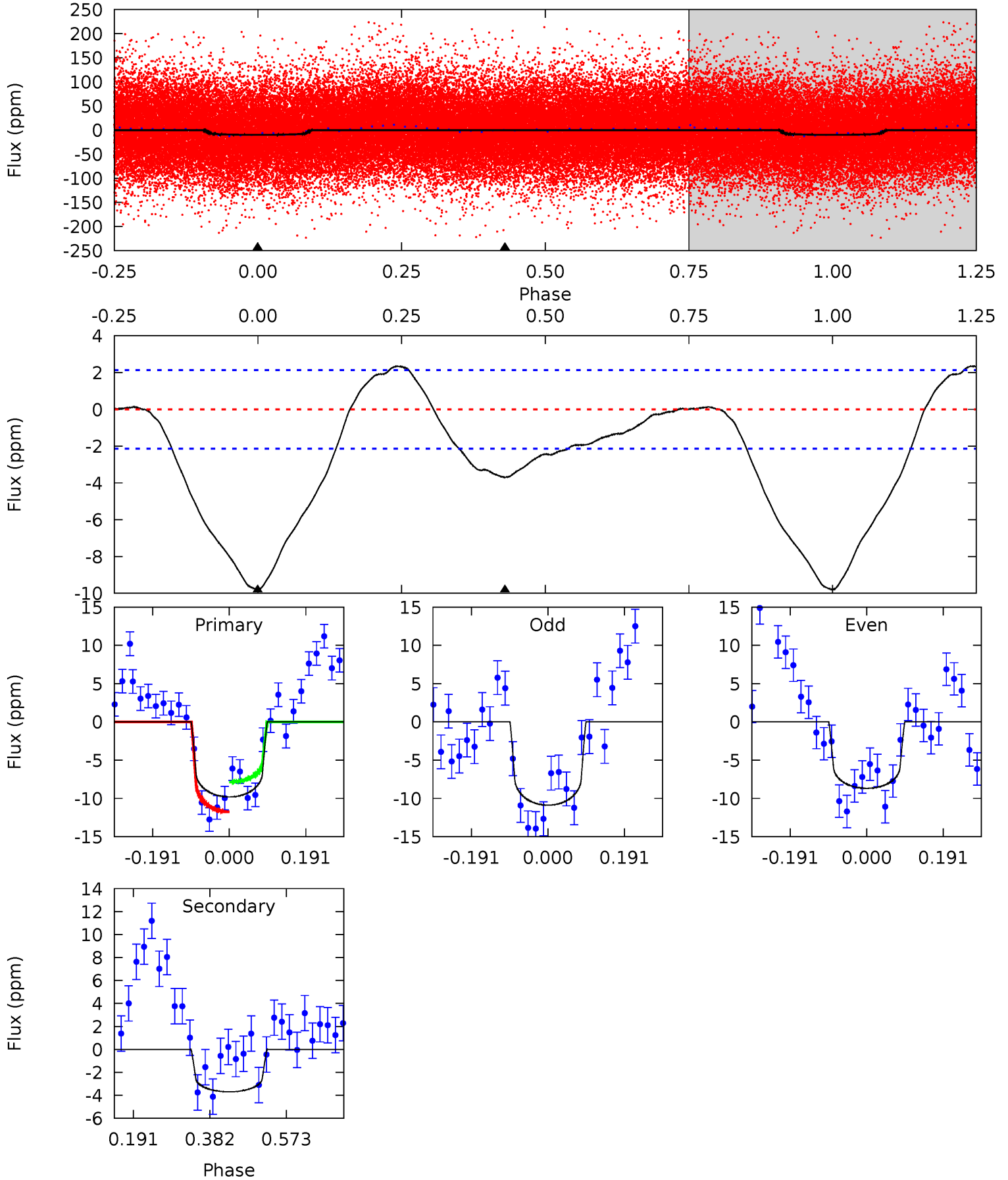
TCE 007268500-01 P= 1.678408 Days $T_0=133.135623$ (BKJD)



DV Model-Shift Uniqueness Test

007268500-01, P = 1.678294 Days, E = 129.848680 Days

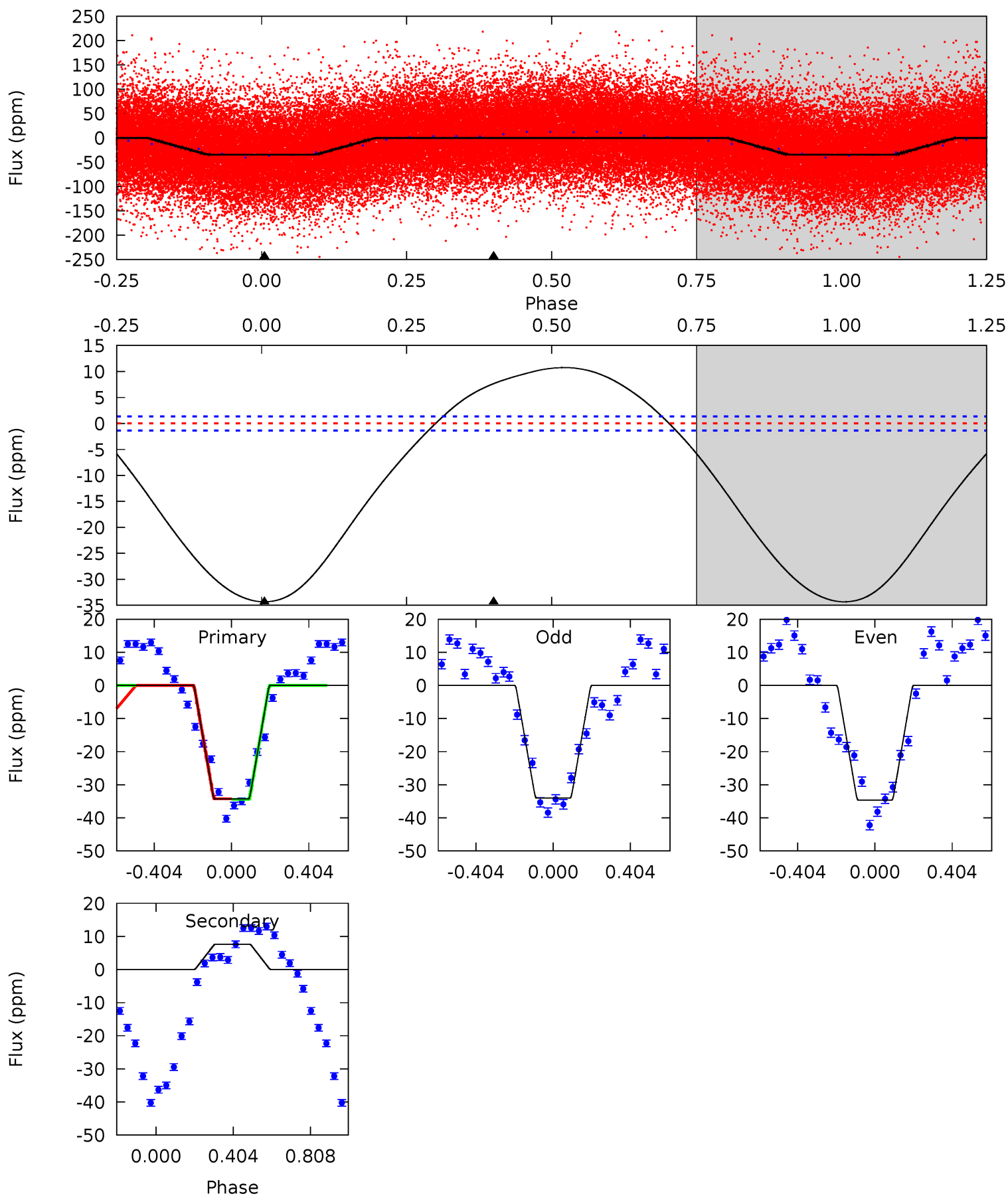
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.3	7.66	0	0	4.43	1.31	2.12	20.3	20.3	7.66	7.66	2.29	1.09	0.19	4.01



Alt Model-Shift Uniqueness Test

007268500-01, P = 1.678408 Days, E = 131.457215 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
107.6	-24.0	0	0	4.26	0.83	10.5	107.6	107.6	-24.0	-24.0	0.90	1.02	0.24	0.27



Stellar Parameters For KIC 007268500

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7473^{+67}_{-89}	$3.772^{+0.186}_{-0.124}$	$0.360^{+0.050}_{-0.200}$	$3.179^{+0.633}_{-0.774}$	$2.179^{+0.178}_{-0.268}$	$0.096^{+0.102}_{-0.037}$
	+1%/-1%	+5%/-3%	+14%/-56%	+20%/-24%	+8%/-12%	+107%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 007268500-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-4 ± 0	$1.03^{+0.25}_{-0.22}$	4311^{+239}_{-256}	5640^{+682}_{-532}	$2.366^{+1.563}_{-0.843}$
Alt.	8 ± 0	$2.09^{+0.31}_{-0.28}$	4320^{+206}_{-231}	-5275^{+189}_{-217}	$-1.224^{+0.294}_{-0.400}$

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

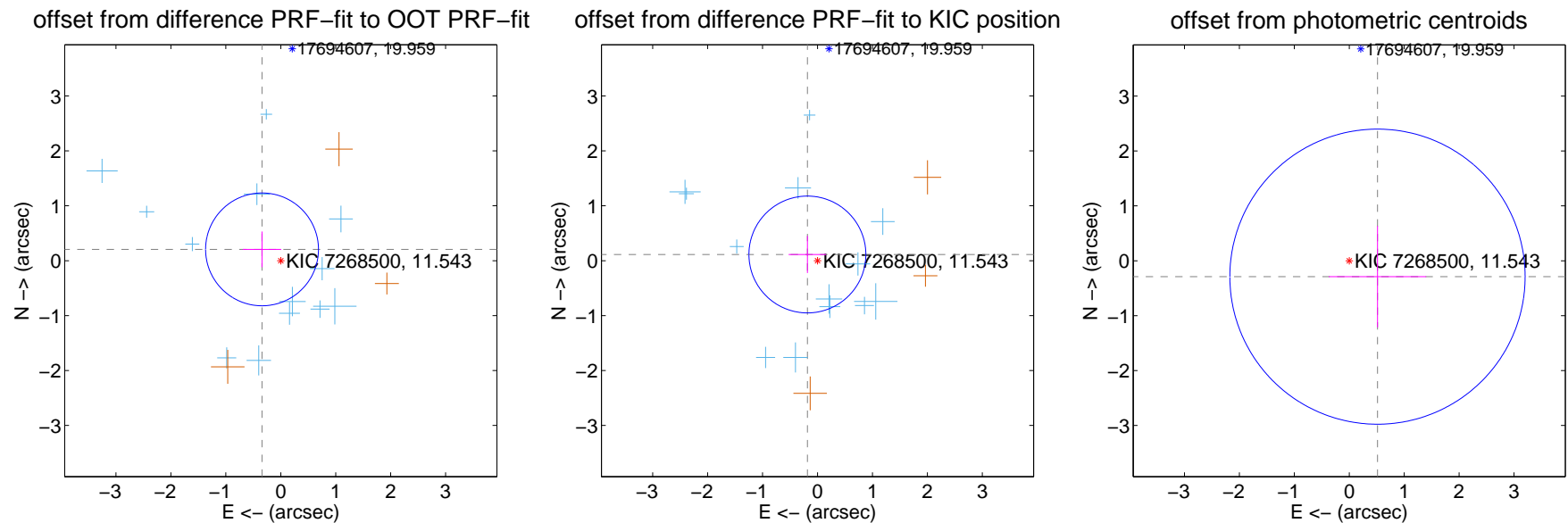
DV Centroid Data

Supplemental centroid analysis for 007268500-01. **Kepler magnitude: 11.54.** Transit SNR 12.52

There are 13 quarters with good PRF difference image offsets

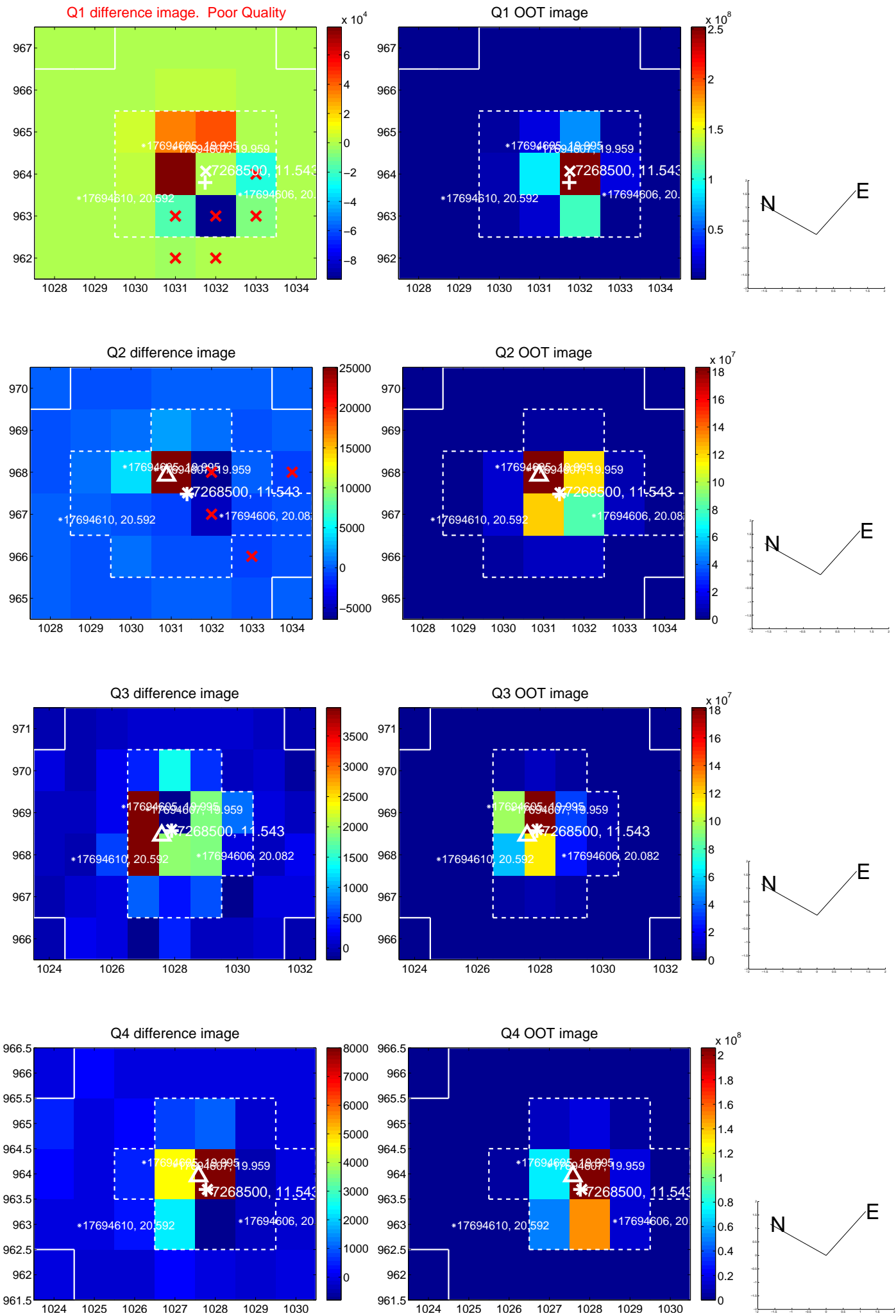
The direct PRF centroid is offset from the target star catalog position by about 0.96 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.399 ± 0.342	1.16	0.341 ± 0.349	0.206 ± 0.324
PRF-fit source offset from KIC position	0.216 ± 0.355	0.61	0.184 ± 0.341	0.113 ± 0.338
photometric centroid source offset	0.59 ± 0.90	0.66	-0.51 ± 0.89	-0.29 ± 0.92

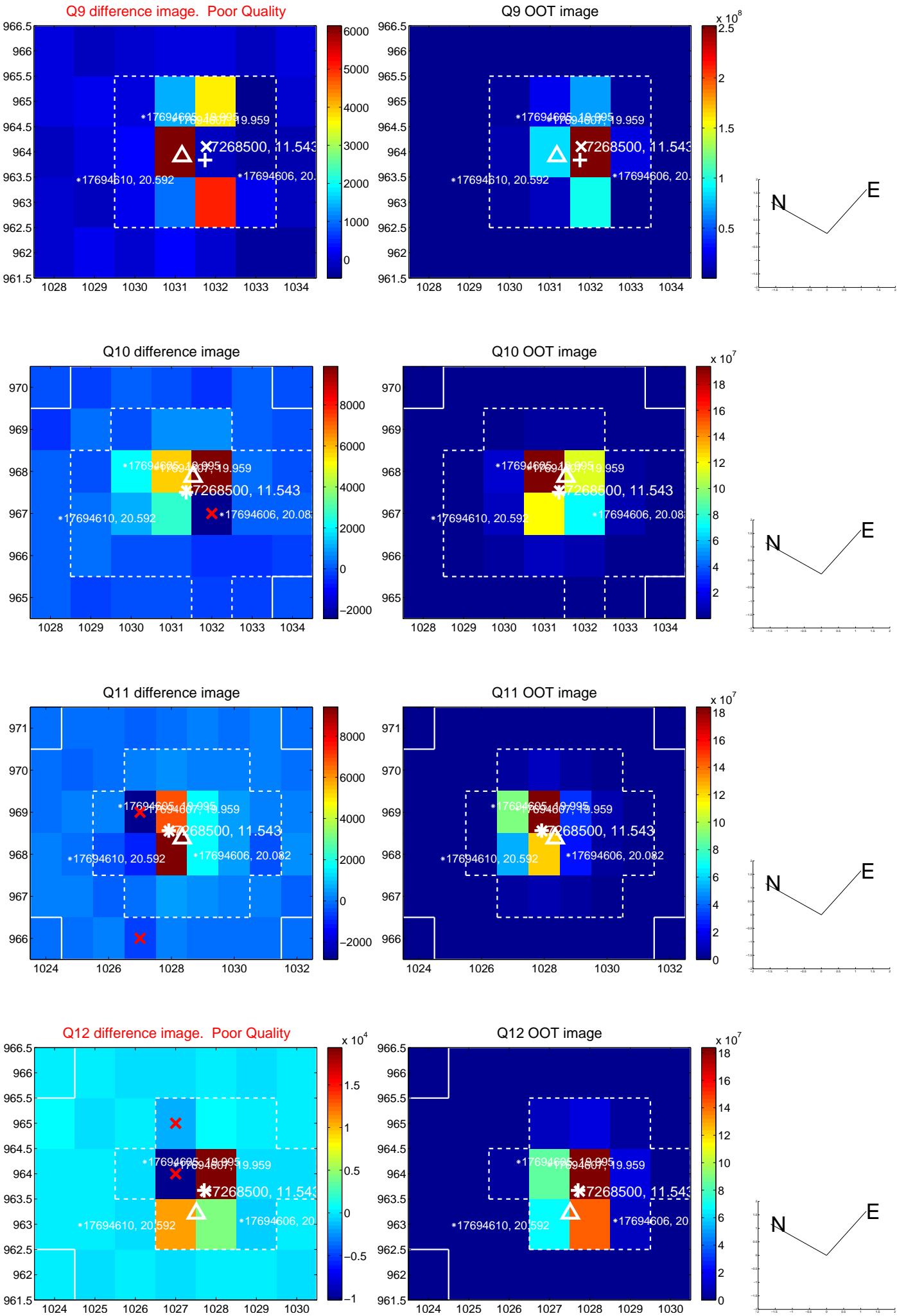


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

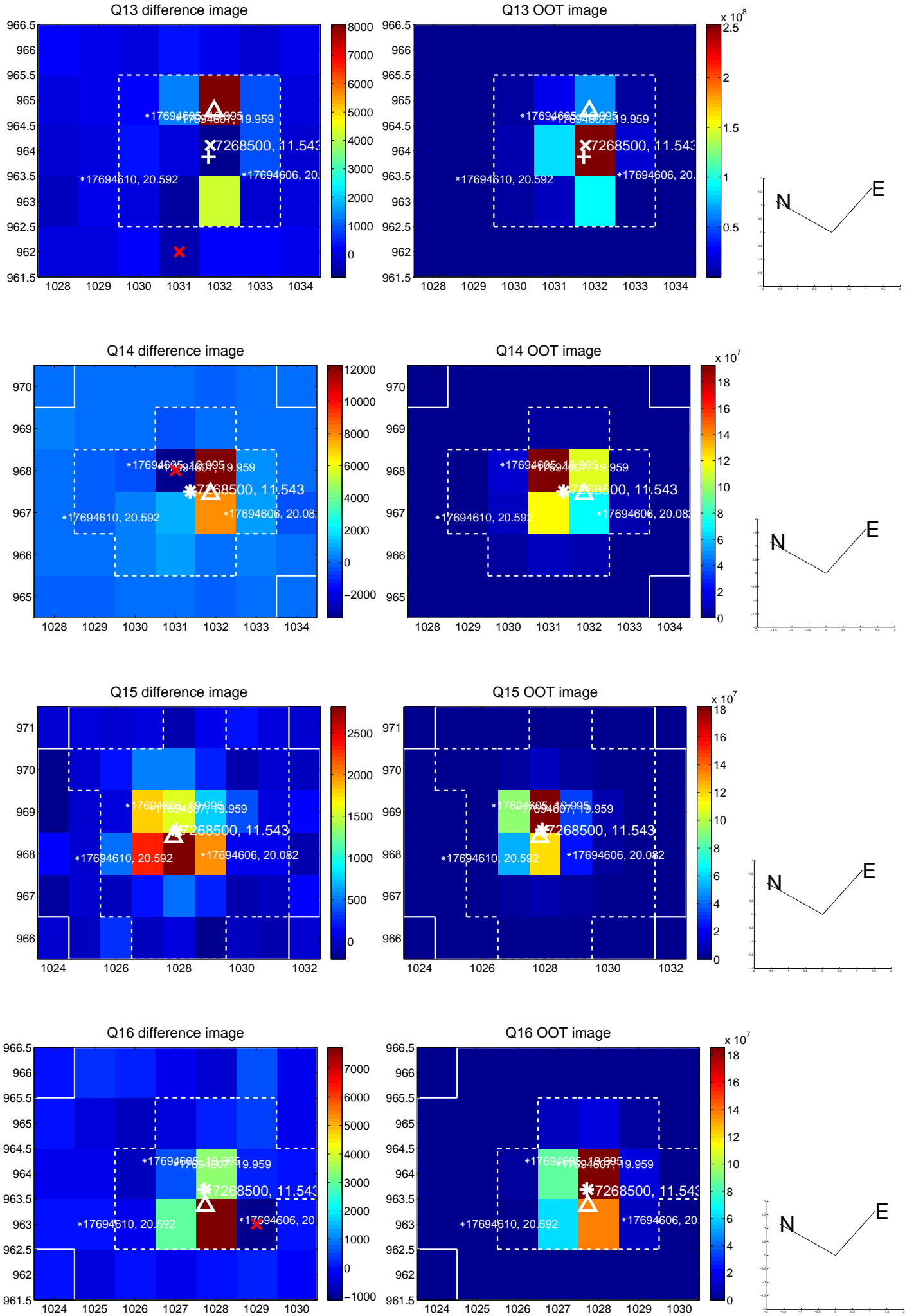
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



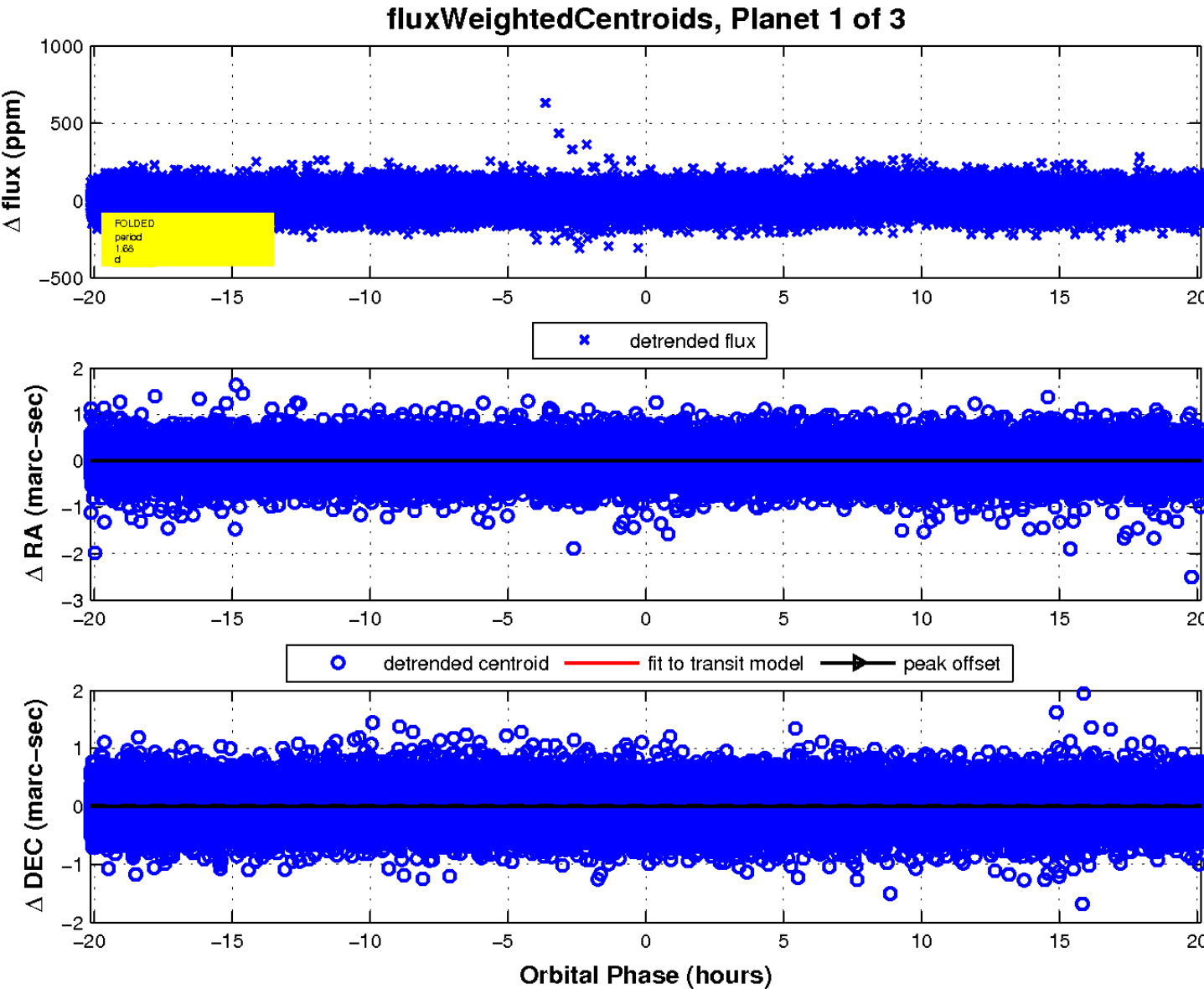
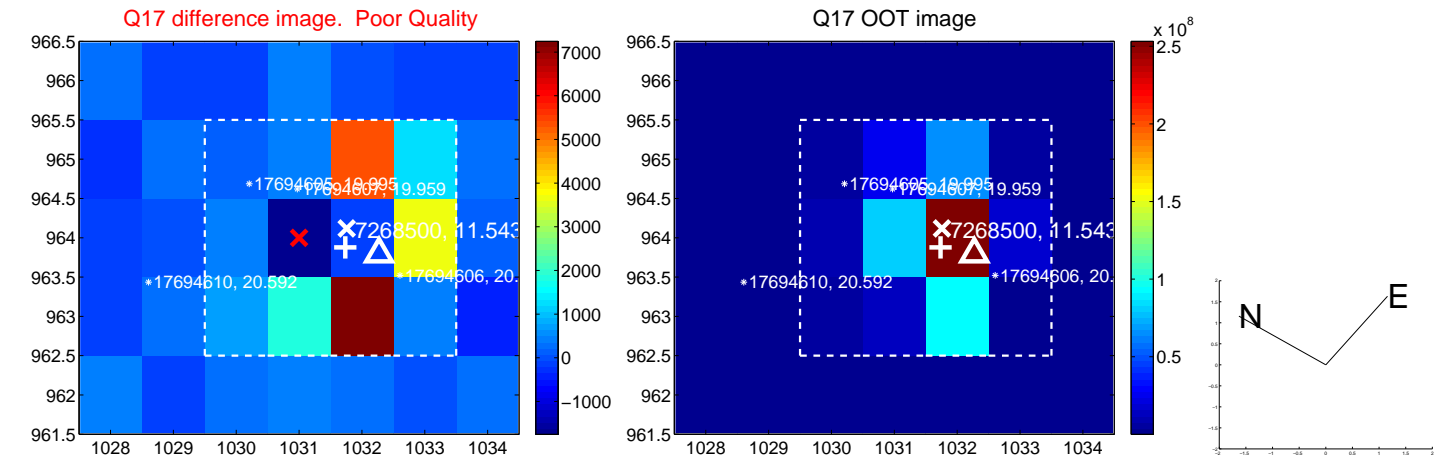
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

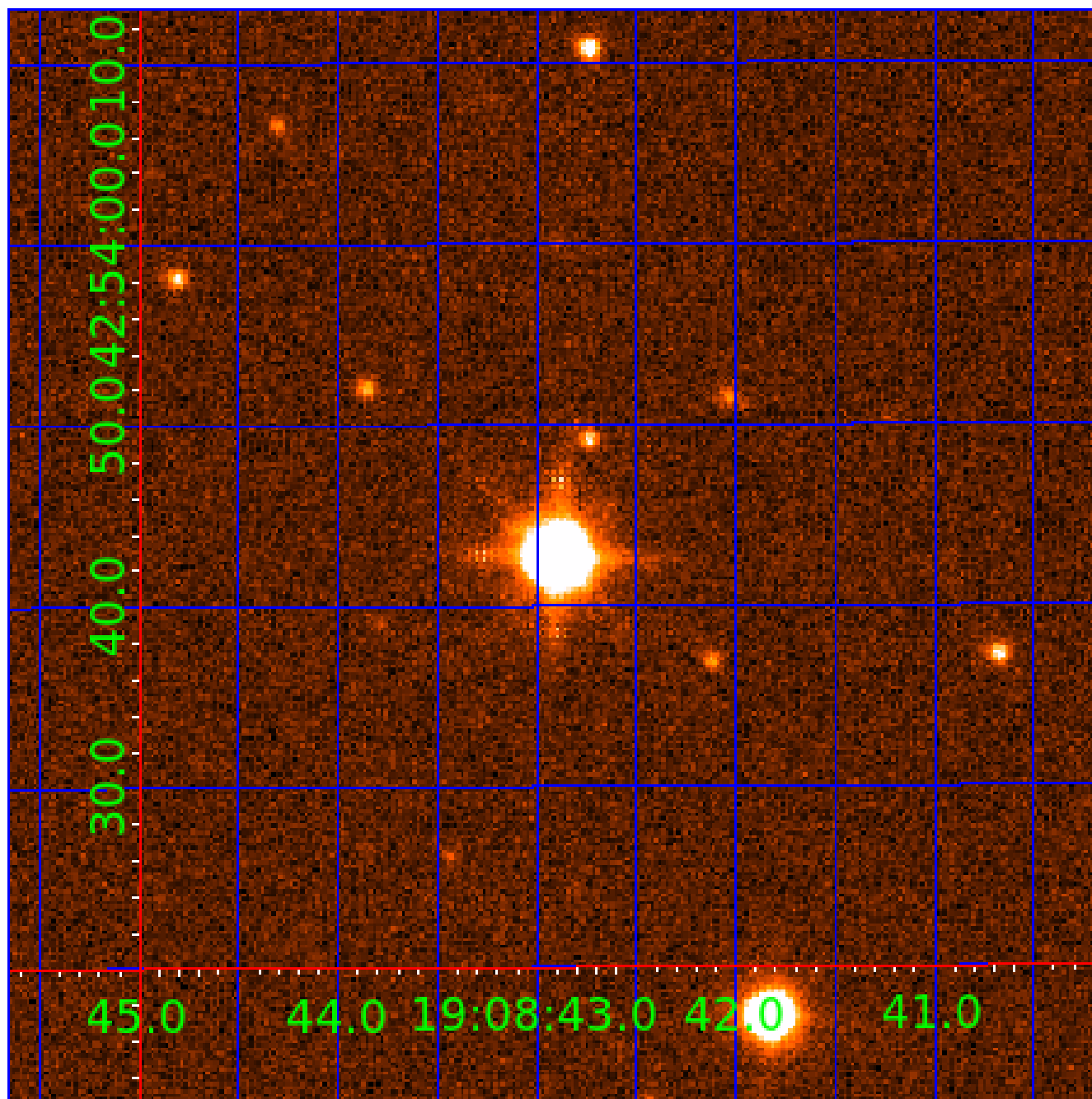


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007268500

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})
007268500-01	OBS	No	1.678294	133.205268	8.4	7.235	11.0	12.5	3.18	7473	1.06	21974.08
007268500-02	OBS	No	208.344964	204.310322	89.0	6.099	15.2	7.9	3.18	7473	3.47	35.48
007268500-03	OBS	No	3.356524	132.054759	11.0	10.777	10.0	12.0	3.18	7473	1.22	8720.64

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007268500-01	OBS	FP	0.00	1	0	0	0	LPP_DV
007268500-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
007268500-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

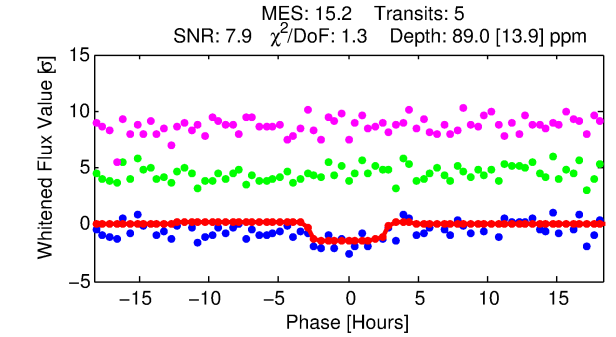
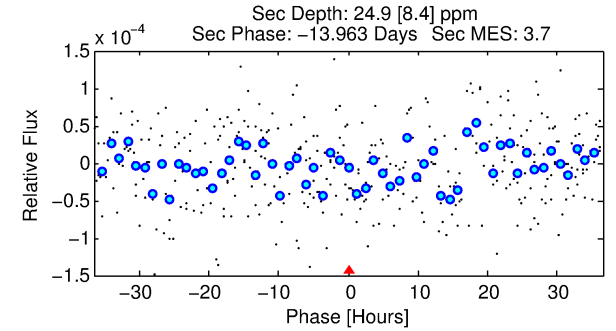
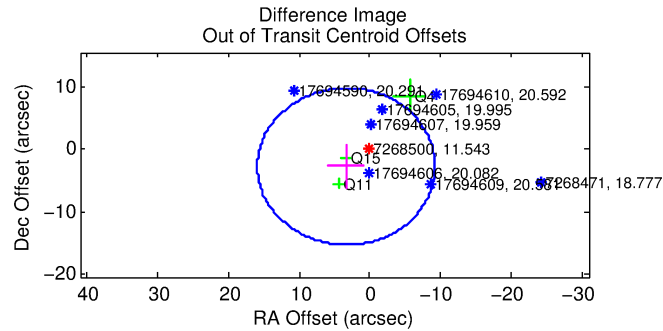
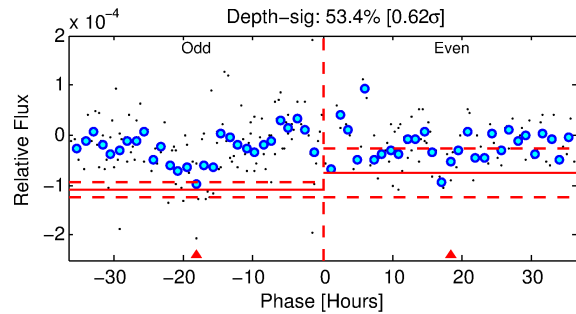
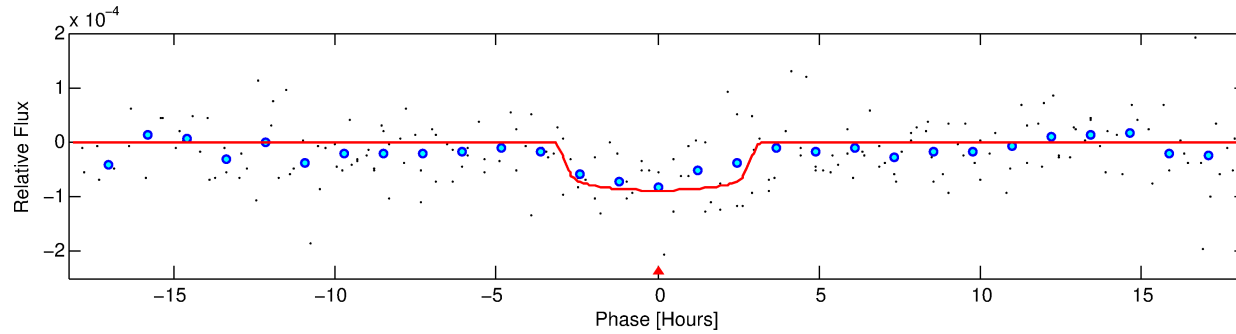
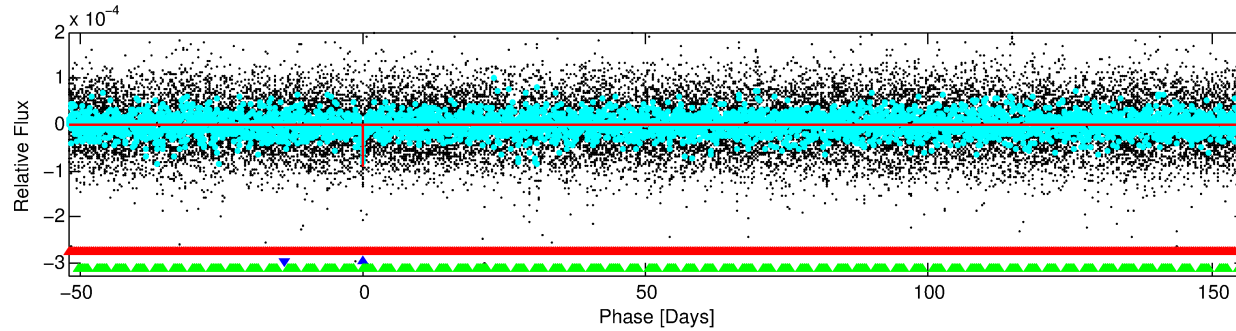
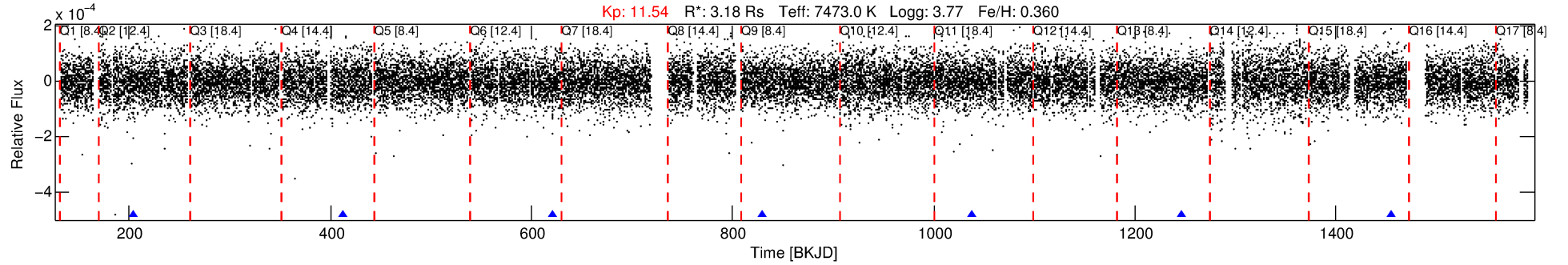
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007268500-02

No Significant Match Found

DV One-Page Summary

KIC: 7268500 Candidate: 2 of 3 Period: 208.345 d



DV Fit Results:

Period = 208.34496 [0.00427] d
Epoch = 204.3103 [0.0108] BKJD
Rp/R* = 0.0100 [0.0047]
a/R* = 121.35 [352.22]
b = 0.90 [0.64]
Seff = 35.48 [11.78]
Teq = 622 [52] K
Rp = 3.47 [1.83] Re
a = 0.8921 [0.1928] AU
Ag = 904.05 [946.85] [0.95 σ]
Teffp = 5276 [1313] K [3.54 σ]

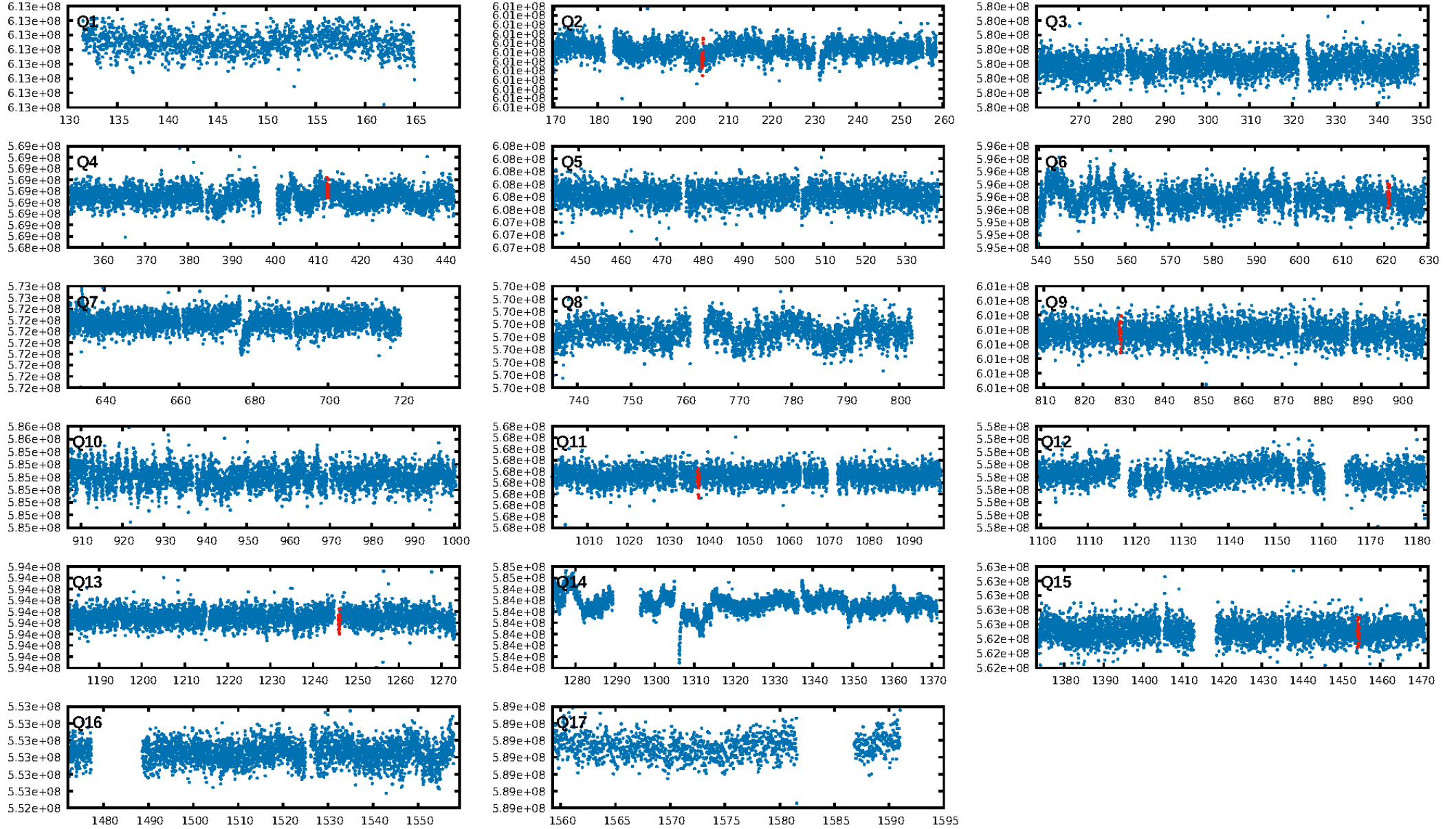
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [397.27 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 23.2%
ModelChiSquareGof-sig: 99.9%
Bootstrap-pfa: 2.80e-25
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -2.186
Centroid-sig: 53.4%
Centroid-so: 0.806 arcsec [0.74 σ]
OotOffset-rm: 4.355 arcsec [1.04 σ]
KicOffset-rm: 4.313 arcsec [0.90 σ]
OotOffset-st: 0/2/1/0 [3]
KicOffset-st: 0/2/1/0 [3]
DiffImageQuality-fgm: 0.00 [0/3]
DiffImageOverlap-fno: 0.17 [1/6]

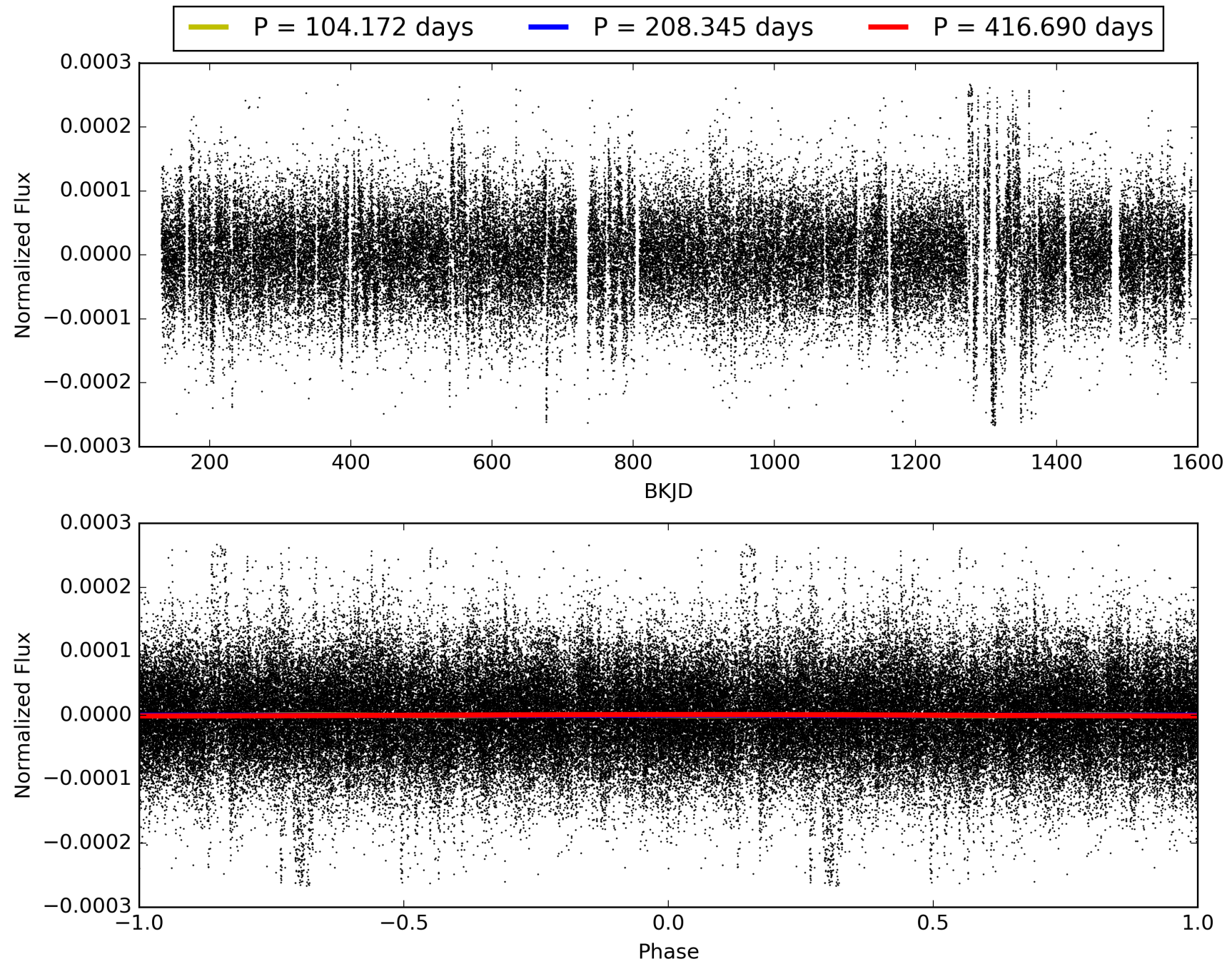
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007268500-02, PDC Light Curves

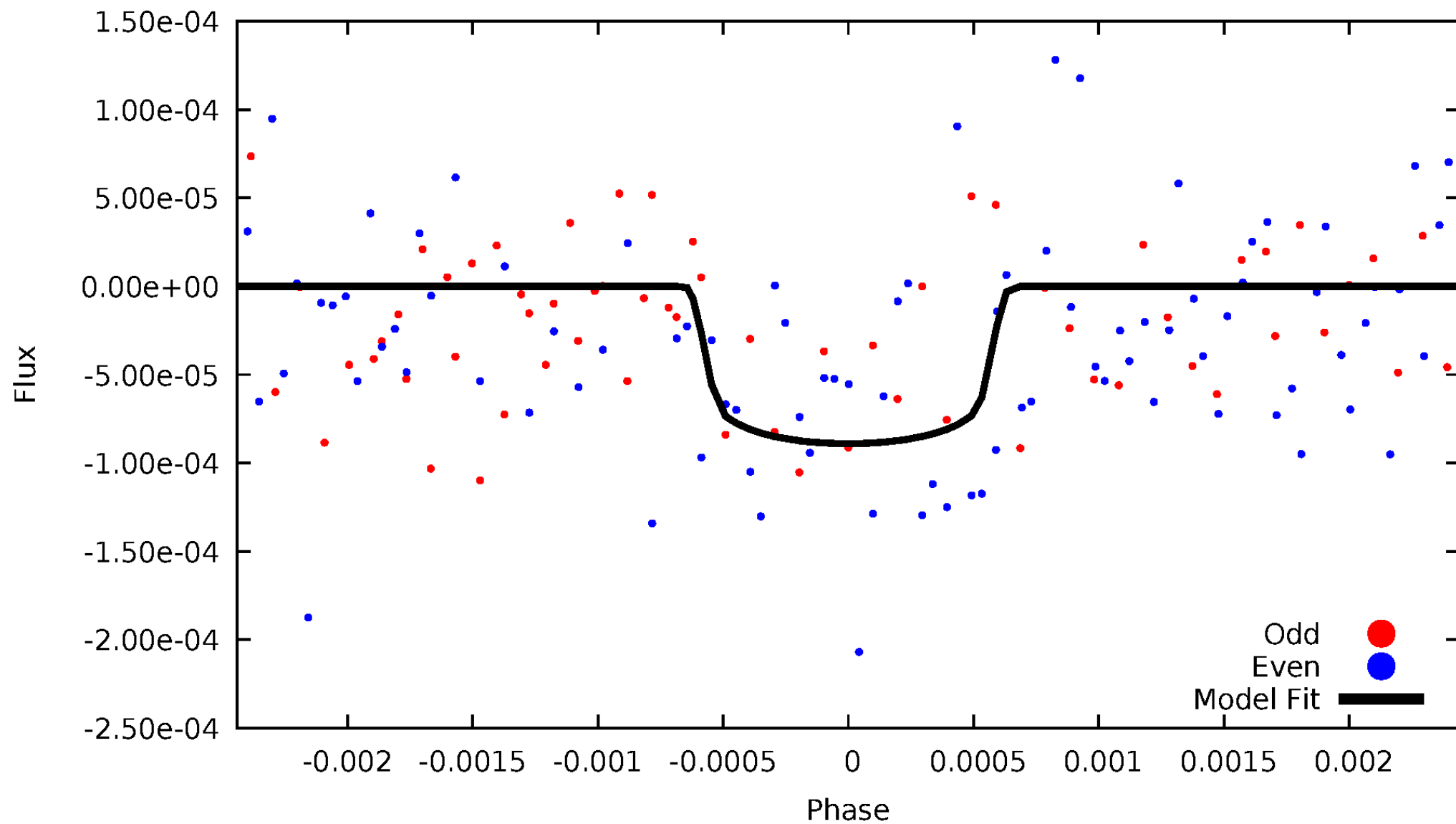


TCE 007268500-02



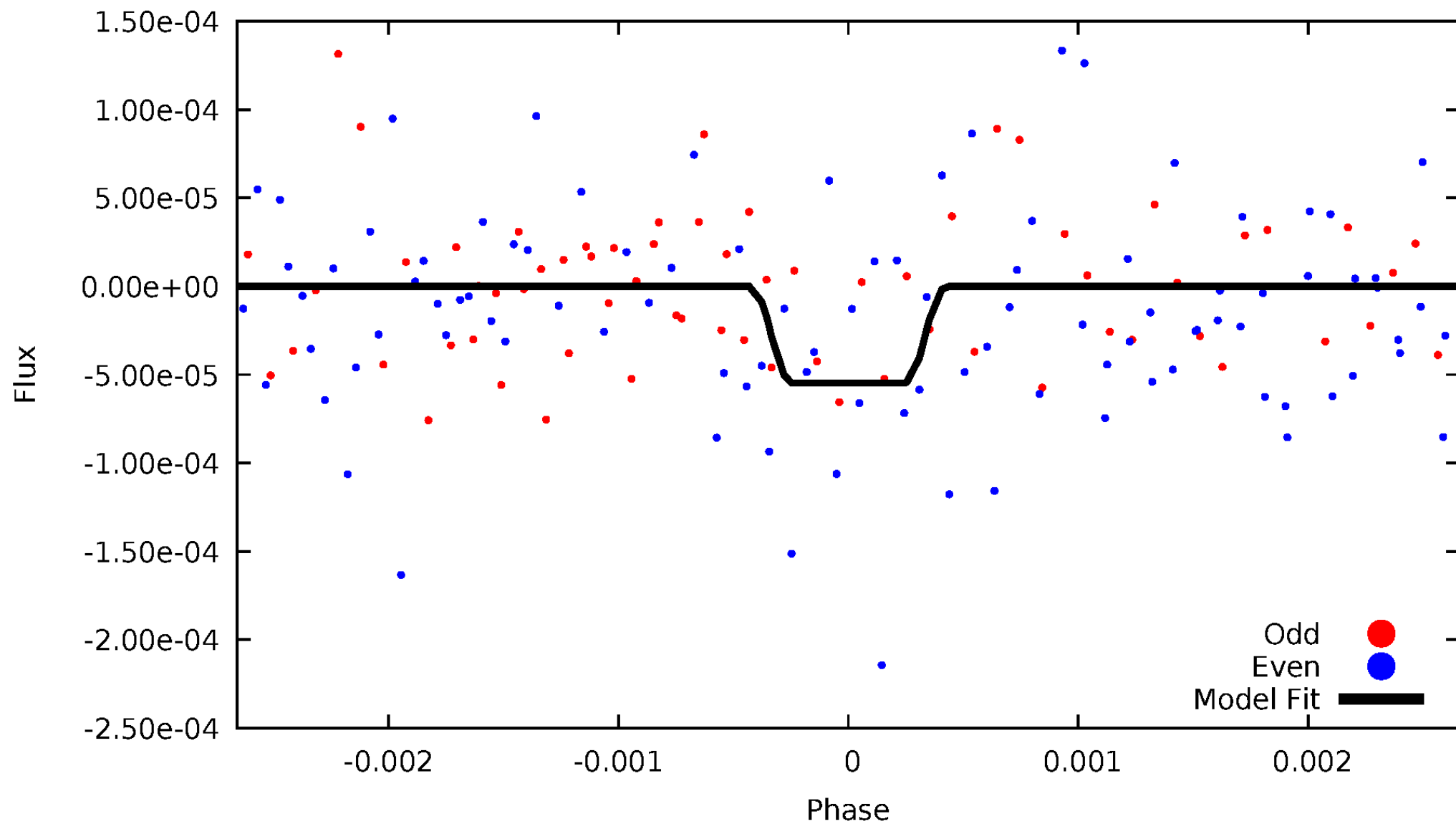
DV Odd/Even

TCE 007268500-02



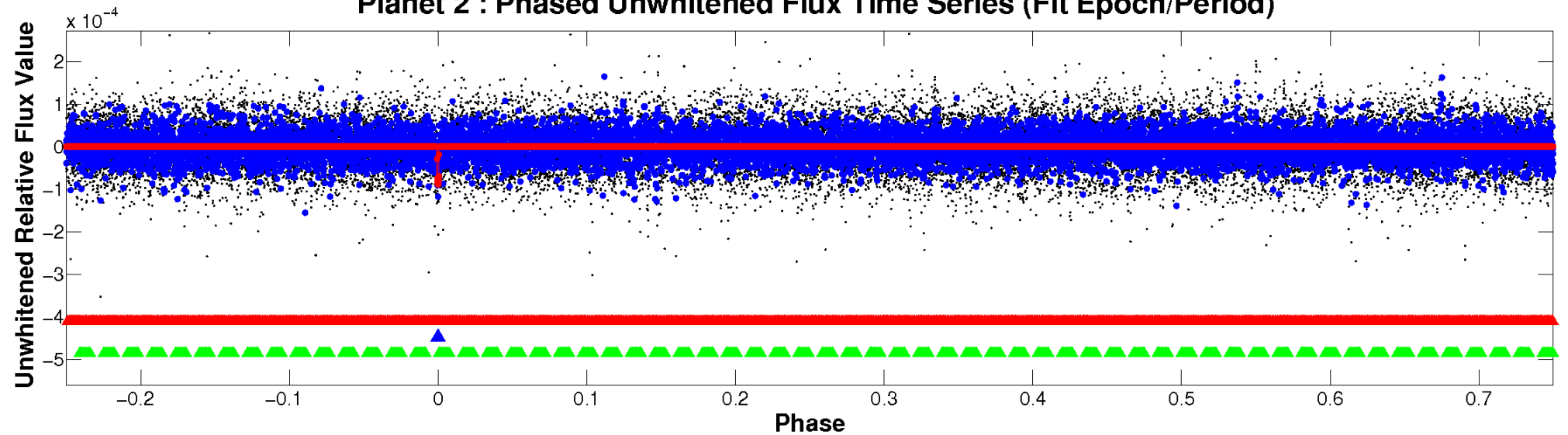
ALT Odd/Even

TCE 007268500-02

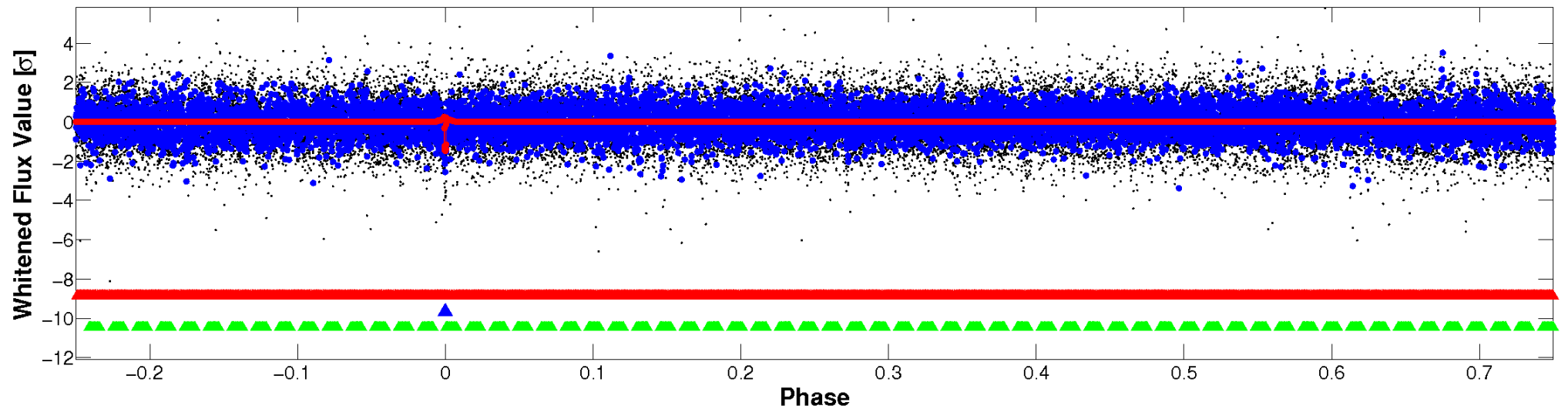


Non-Whitened Vs. Whitened Light Curve

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

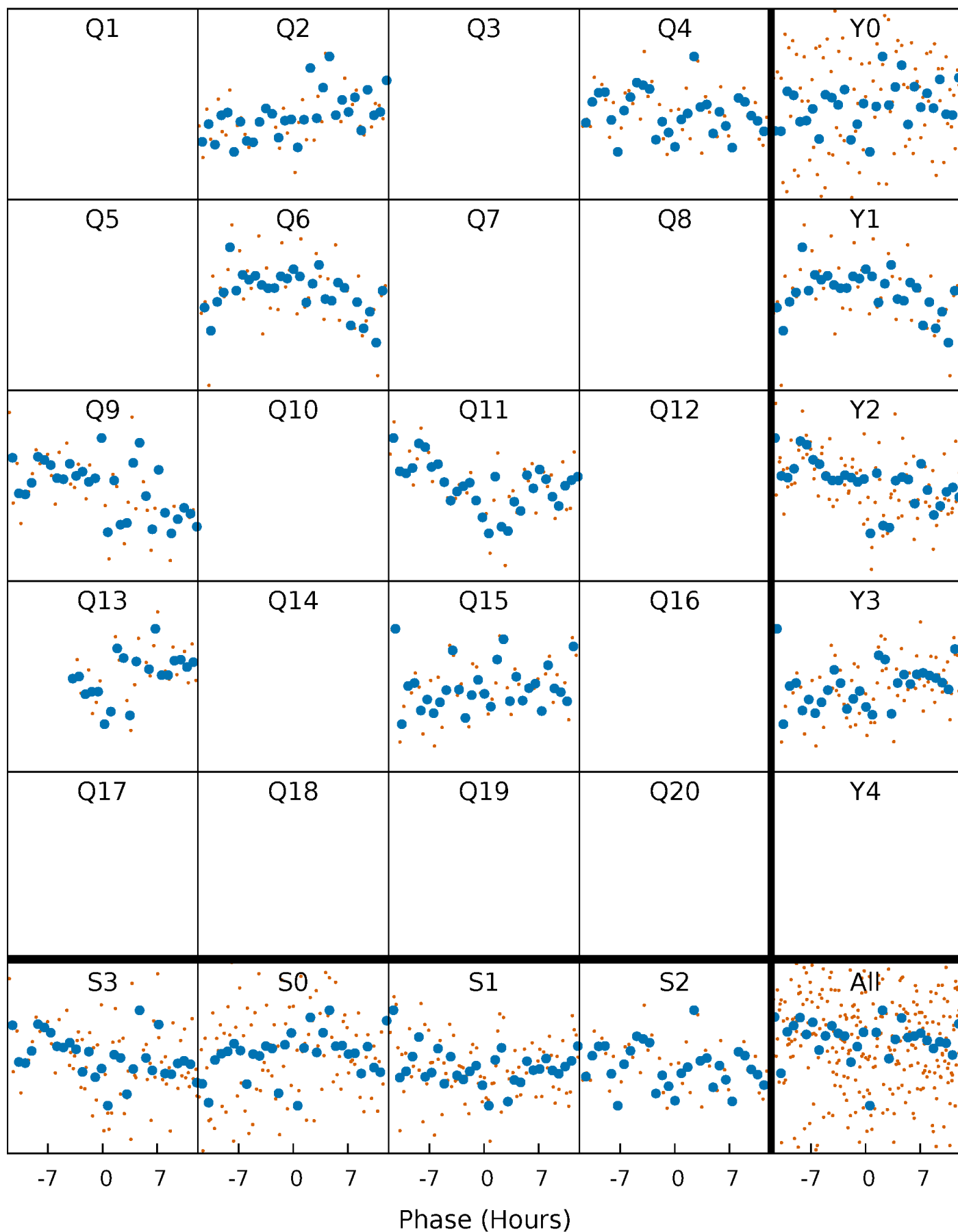


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



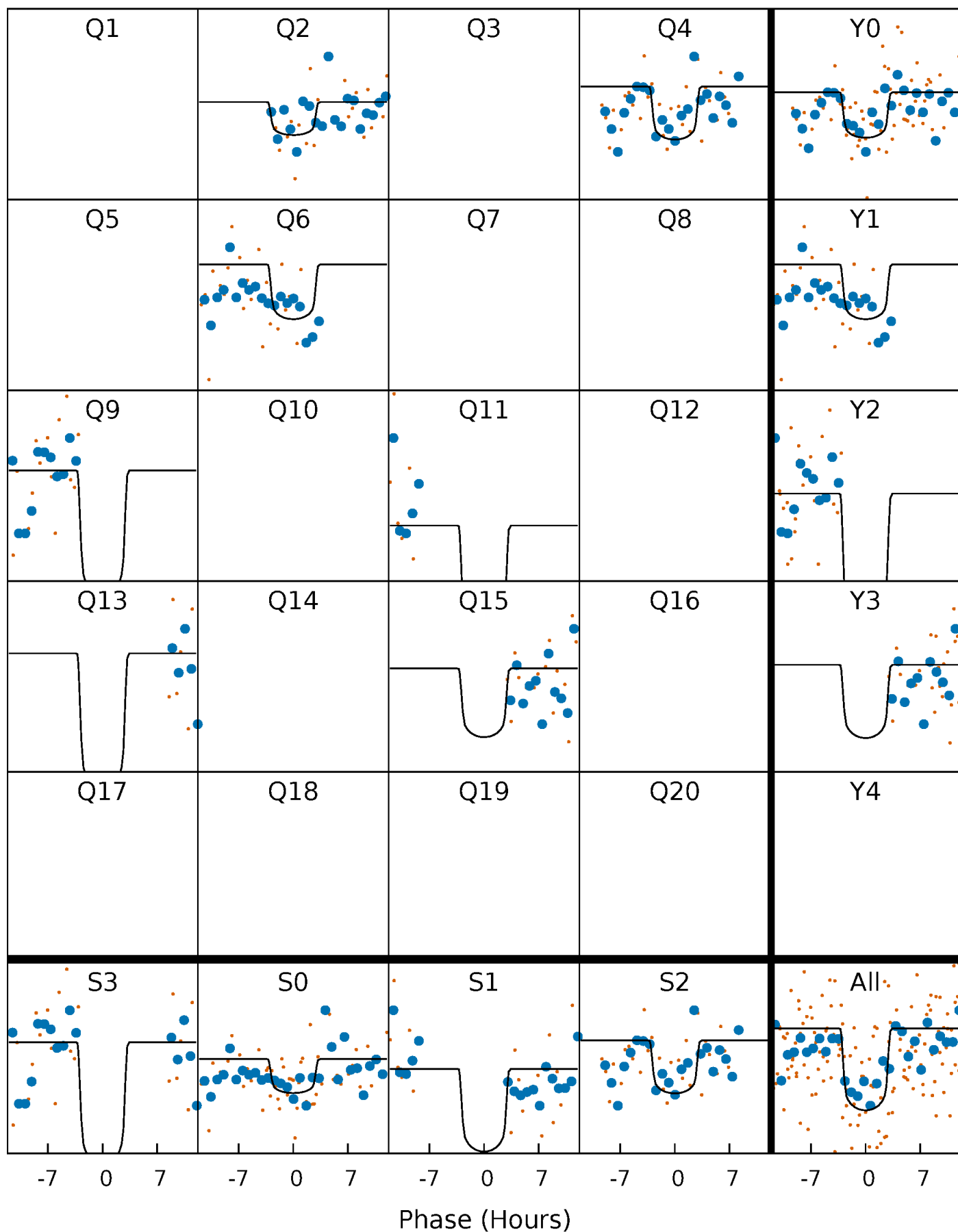
PDC Quarter-Phased Transit Curves

TCE 007268500-02 $P=208.344964$ Days $T_0=204.310321$ (BKJD)



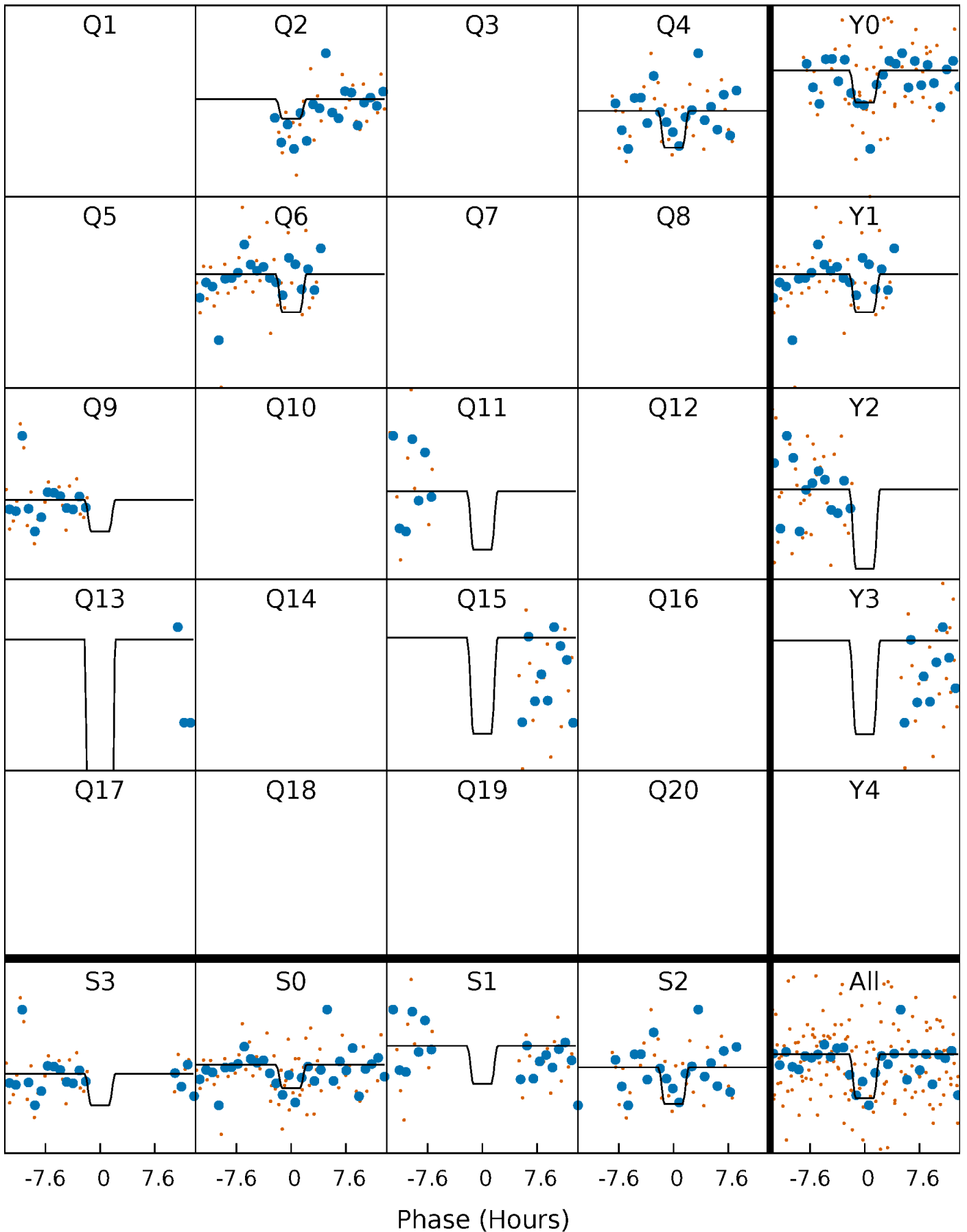
DV Quarter-Phased Transit Curves

TCE 007268500-02 P=208.344964 Days $T_0=204.310321$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

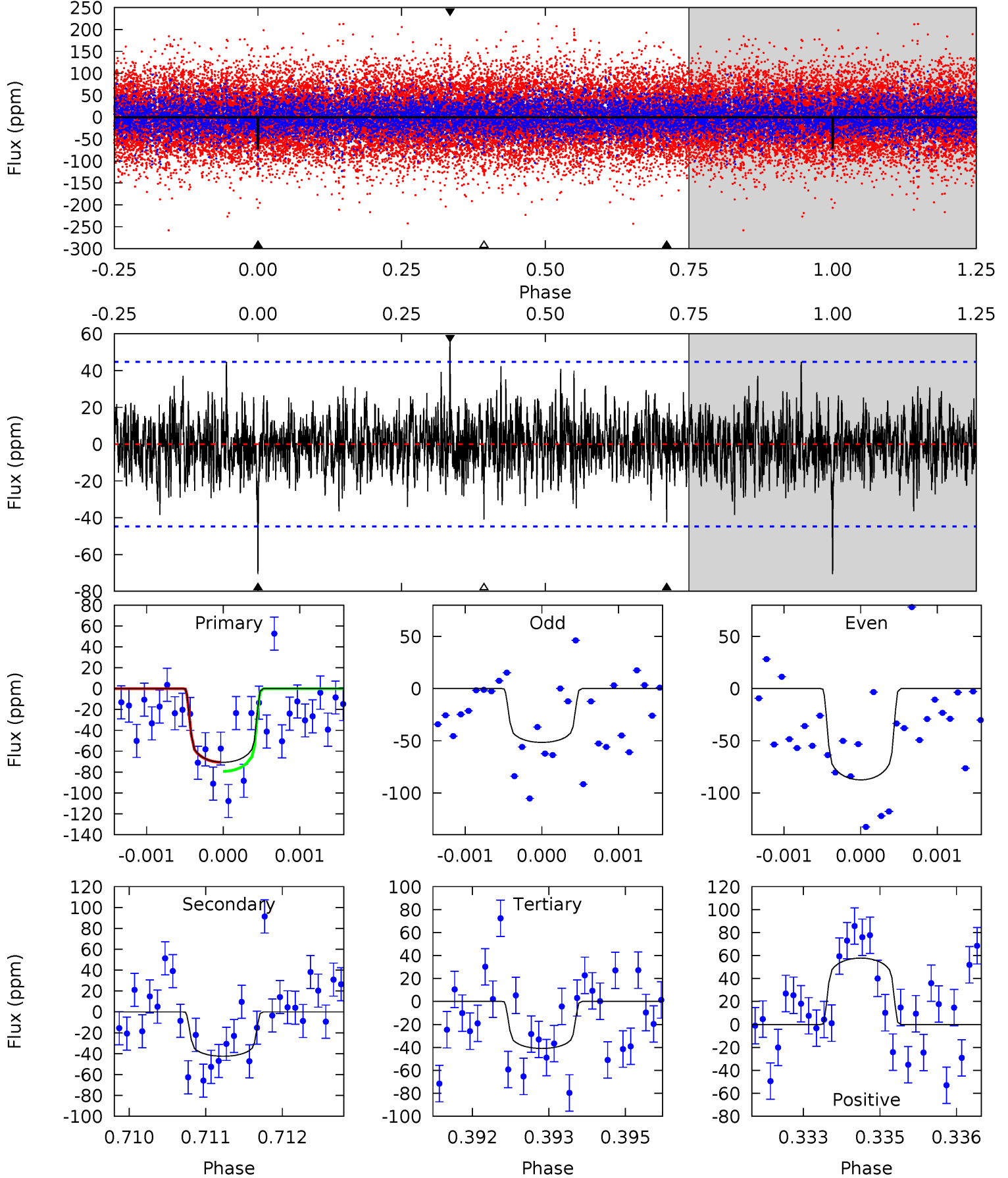
TCE 007268500-02 P=208.333767 Days $T_0=204.288945$ (BKJD)



DV Model-Shift Uniqueness Test

007268500-02, P = 208.344964 Days, E = 204.310321 Days

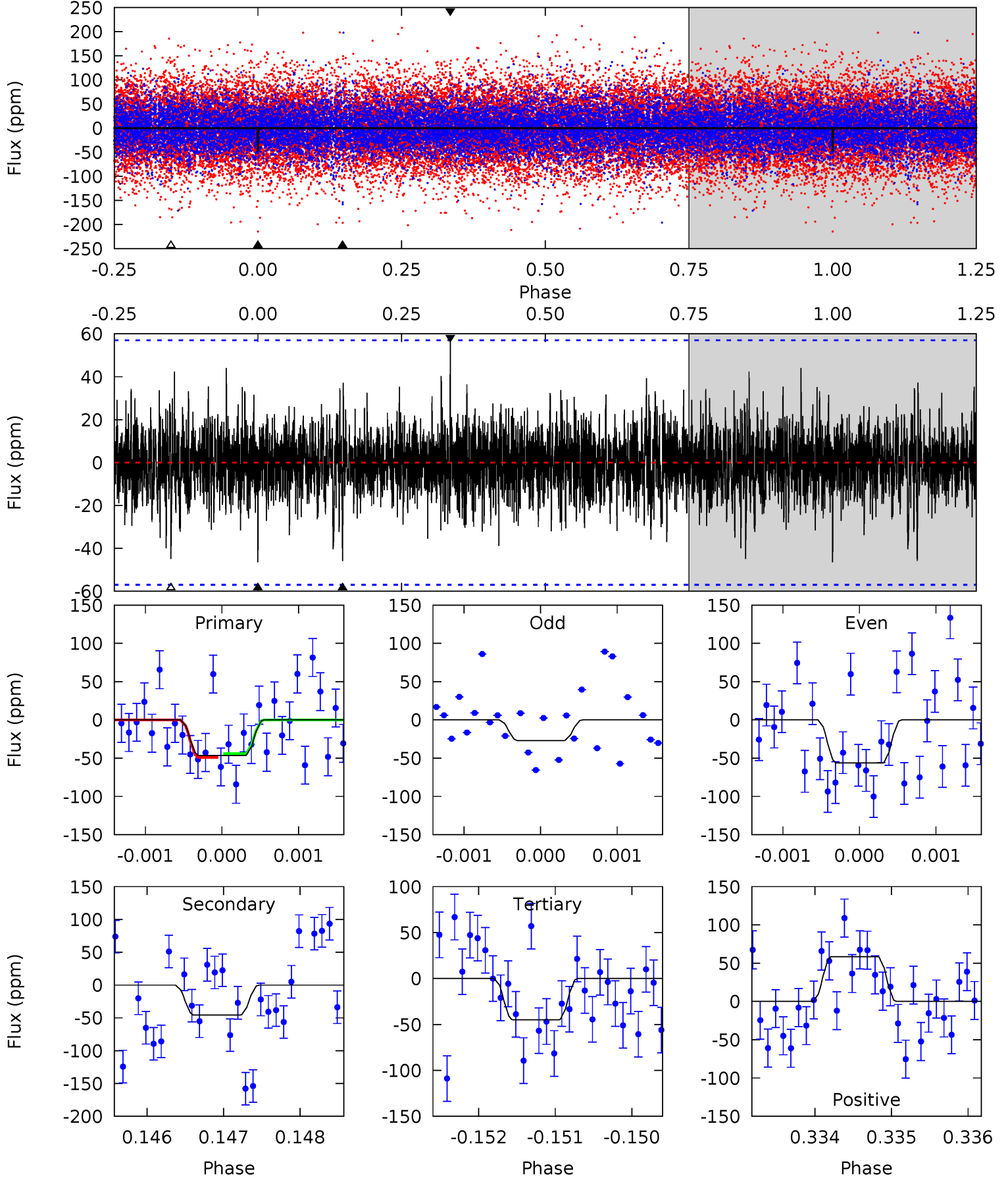
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.53	5.13	4.94	6.98	5.40	3.21	1.41	3.59	1.55	0.19	-1.84	2.01	0.95	0.45	0.51



Alt Model-Shift Uniqueness Test

007268500-02, P = 208.333767 Days, E = 204.288945 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.48	4.42	4.33	5.64	5.49	3.35	1.10	0.15	-1.16	0.09	-1.22	1.35	1.70	0.56	0.25



Stellar Parameters For KIC 007268500

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7473^{+67}_{-89}	$3.772^{+0.186}_{-0.124}$	$0.360^{+0.050}_{-0.200}$	$3.179^{+0.633}_{-0.774}$	$2.179^{+0.178}_{-0.268}$	$0.096^{+0.102}_{-0.037}$
	+1%/-1%	+5%/-3%	+14%/-56%	+20%/-24%	+8%/-12%	+107%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 007268500-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-42 ± 8	$3.51^{+1.60}_{-1.52}$	867^{+48}_{-50}	5882^{+2071}_{-962}	1517^{+3201}_{-842}
Alt.	-46 ± 10	$2.68^{+1.54}_{-1.47}$	867^{+48}_{-51}	6902^{+4640}_{-1415}	2779^{+10644}_{-1674}

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

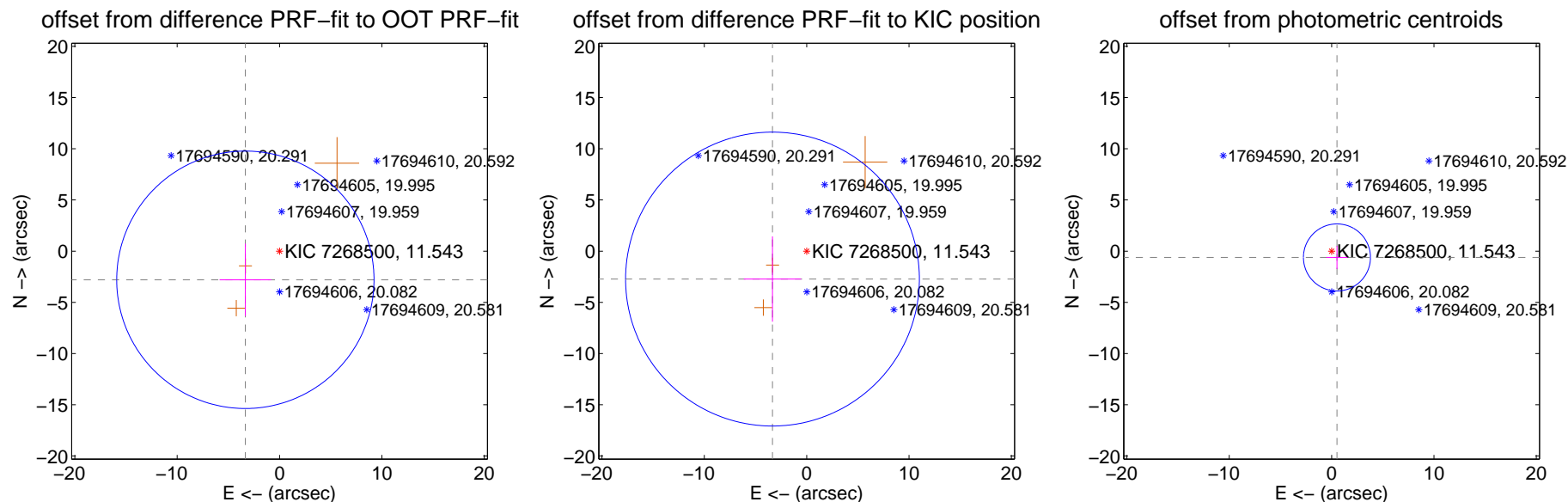
DV Centroid Data

Supplemental centroid analysis for 007268500-02. **Kepler magnitude: 11.54.** Transit SNR 7.91

There are 0 quarters with good PRF difference image offsets

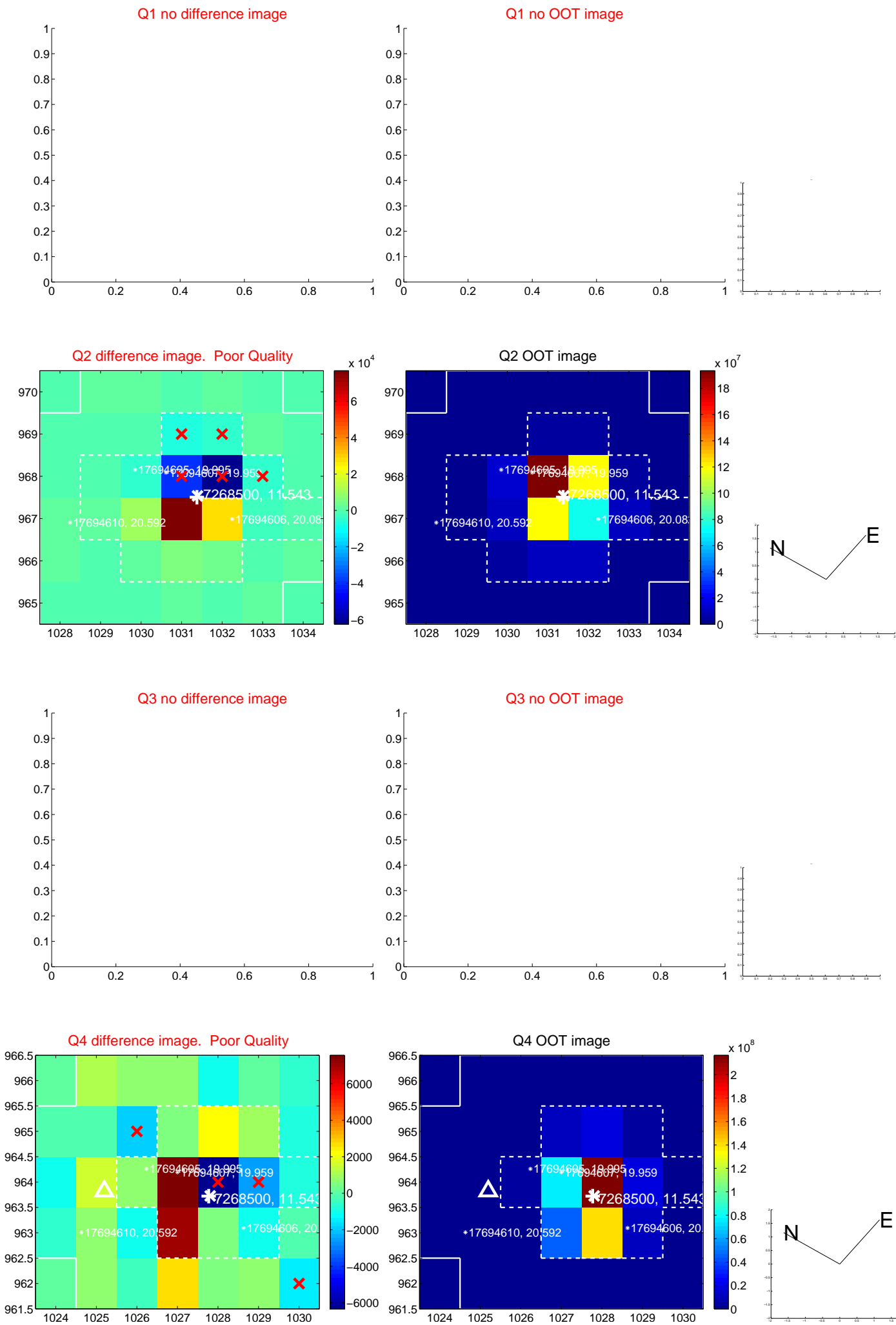
The direct PRF centroid is offset from the target star catalog position by about 0.08 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.355 ± 4.190	1.04	3.338 ± 2.521	-2.797 ± 3.529
PRF-fit source offset from KIC position	4.313 ± 4.783	0.90	3.342 ± 2.795	-2.726 ± 4.163
photometric centroid source offset	0.81 ± 1.09	0.74	-0.52 ± 1.04	-0.61 ± 1.13

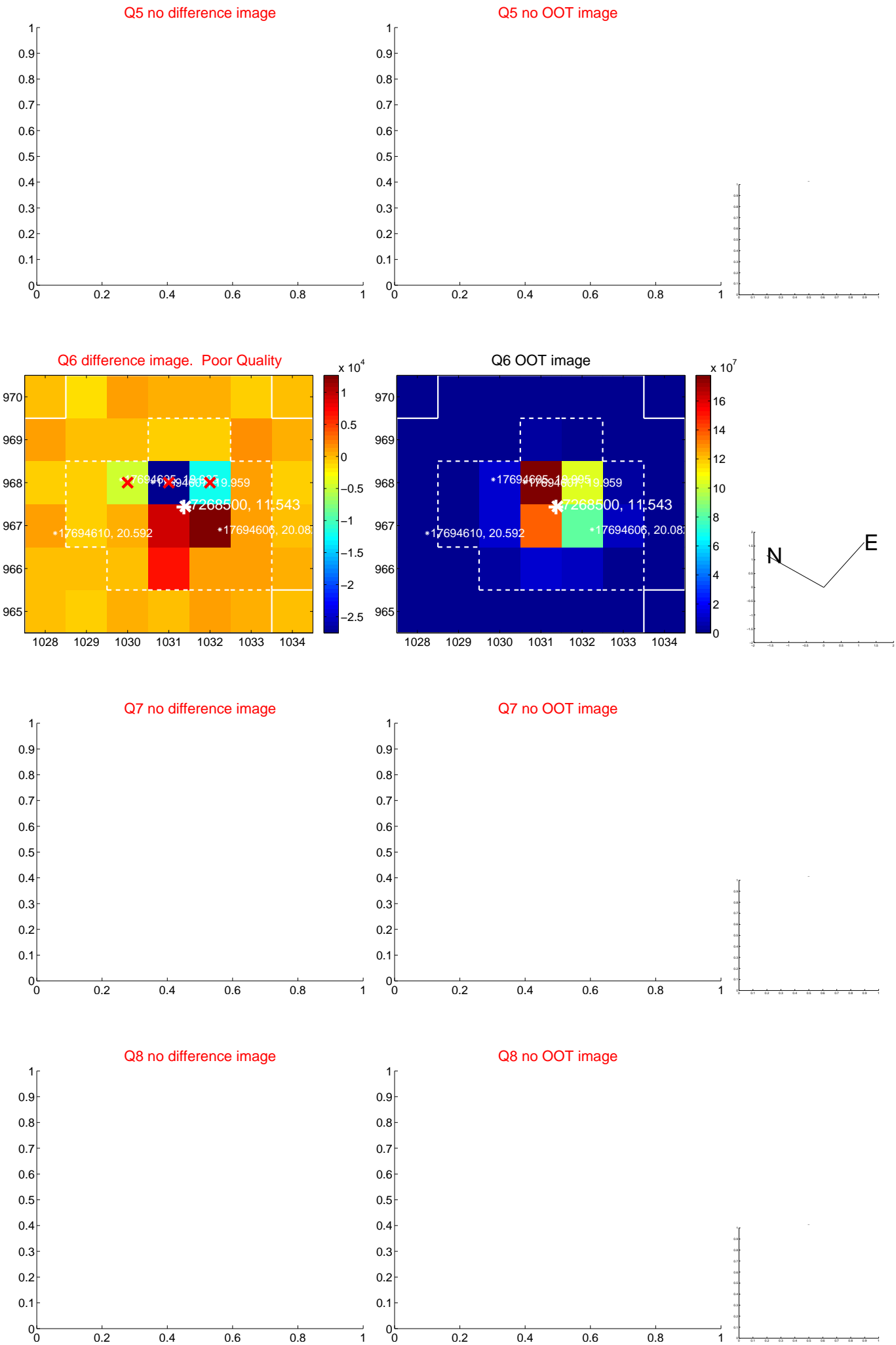


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

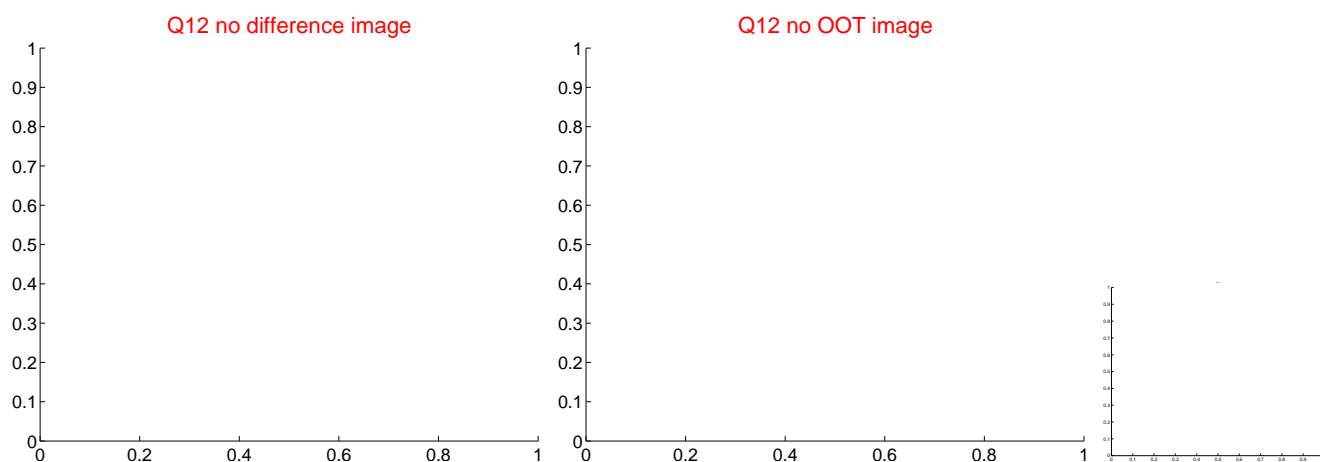
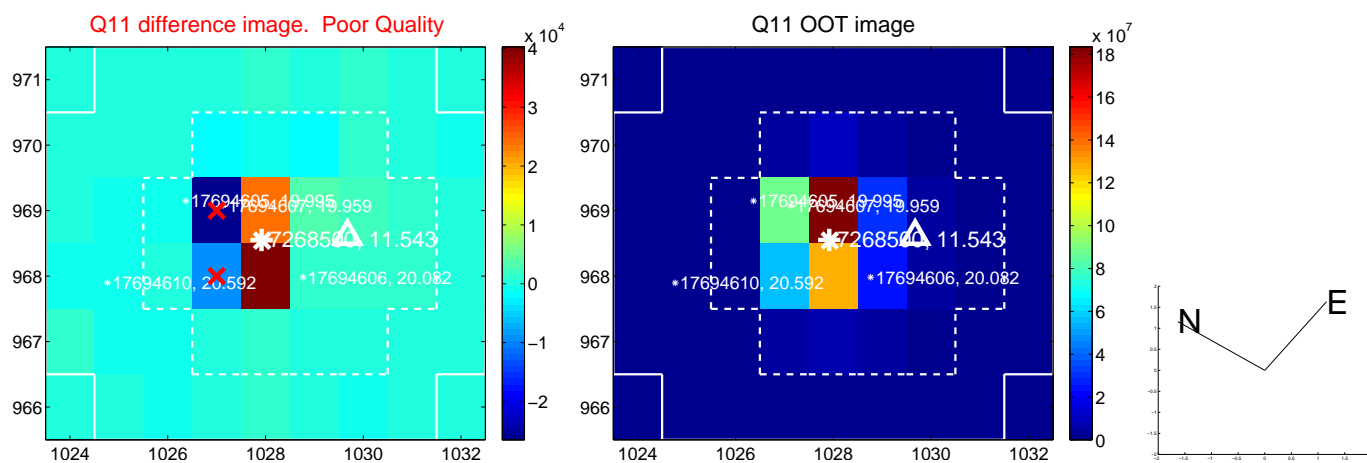
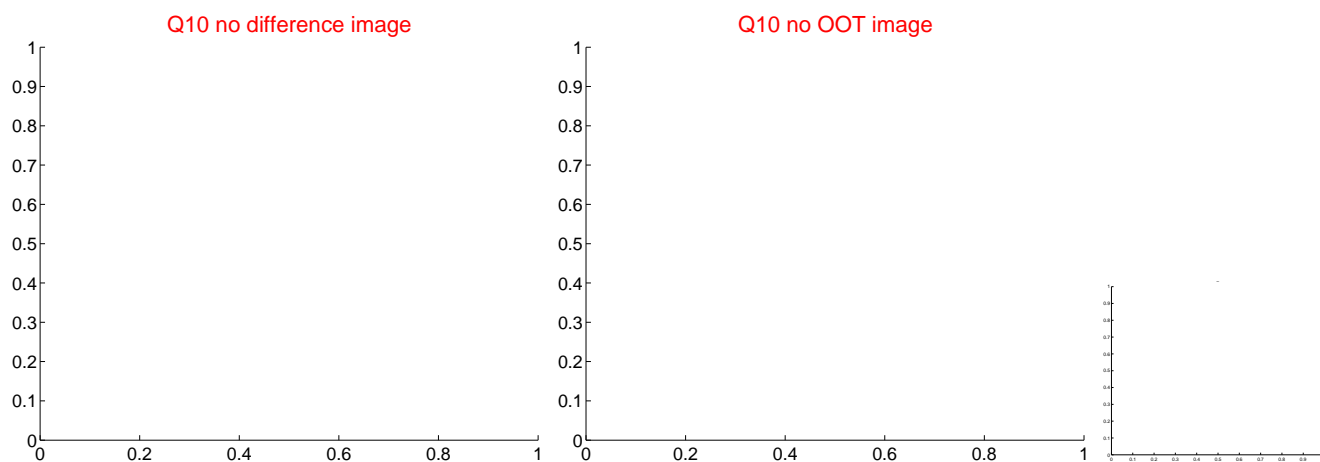
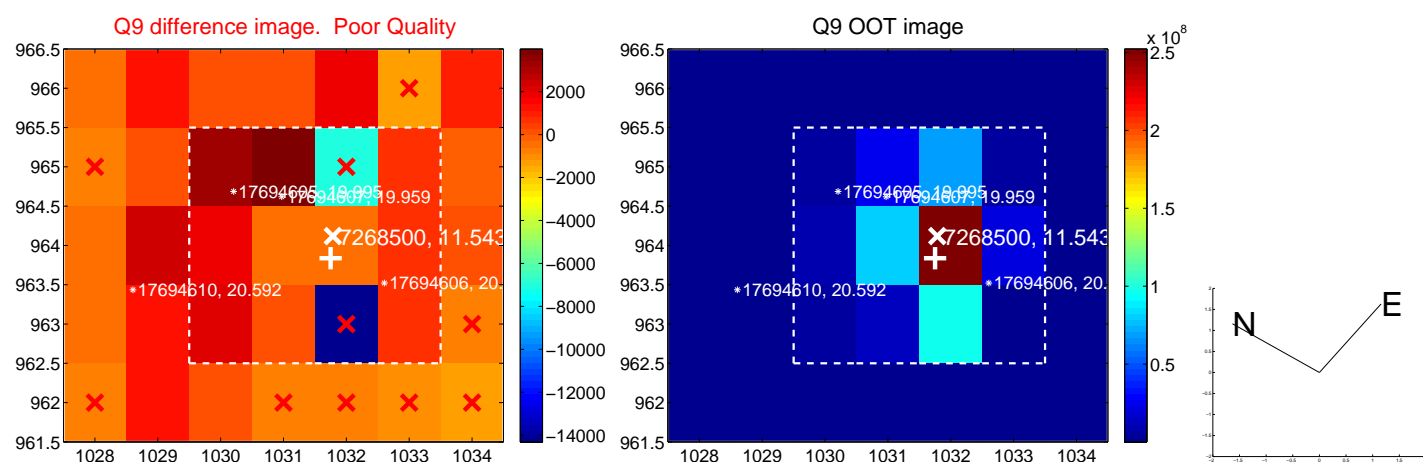
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



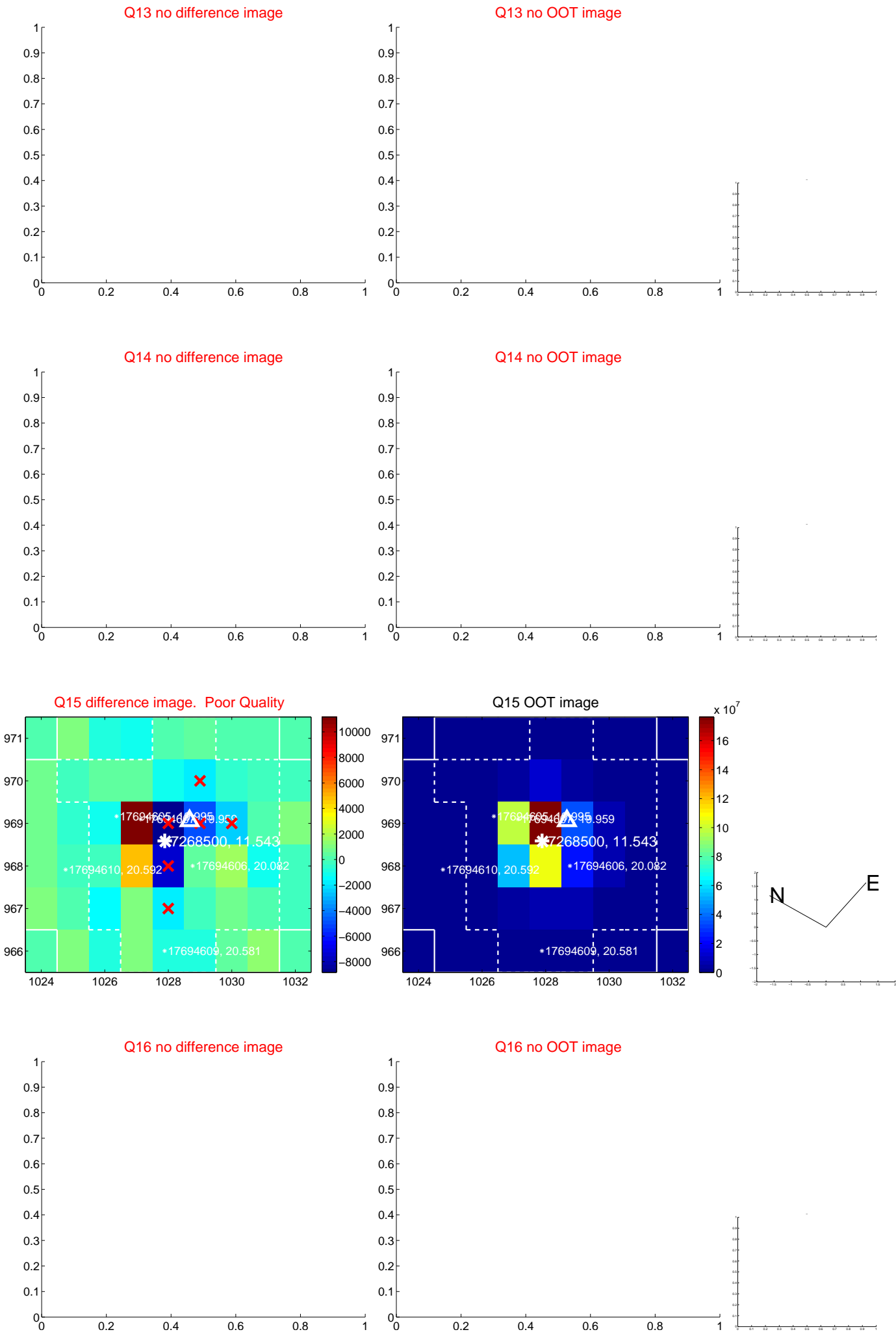
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



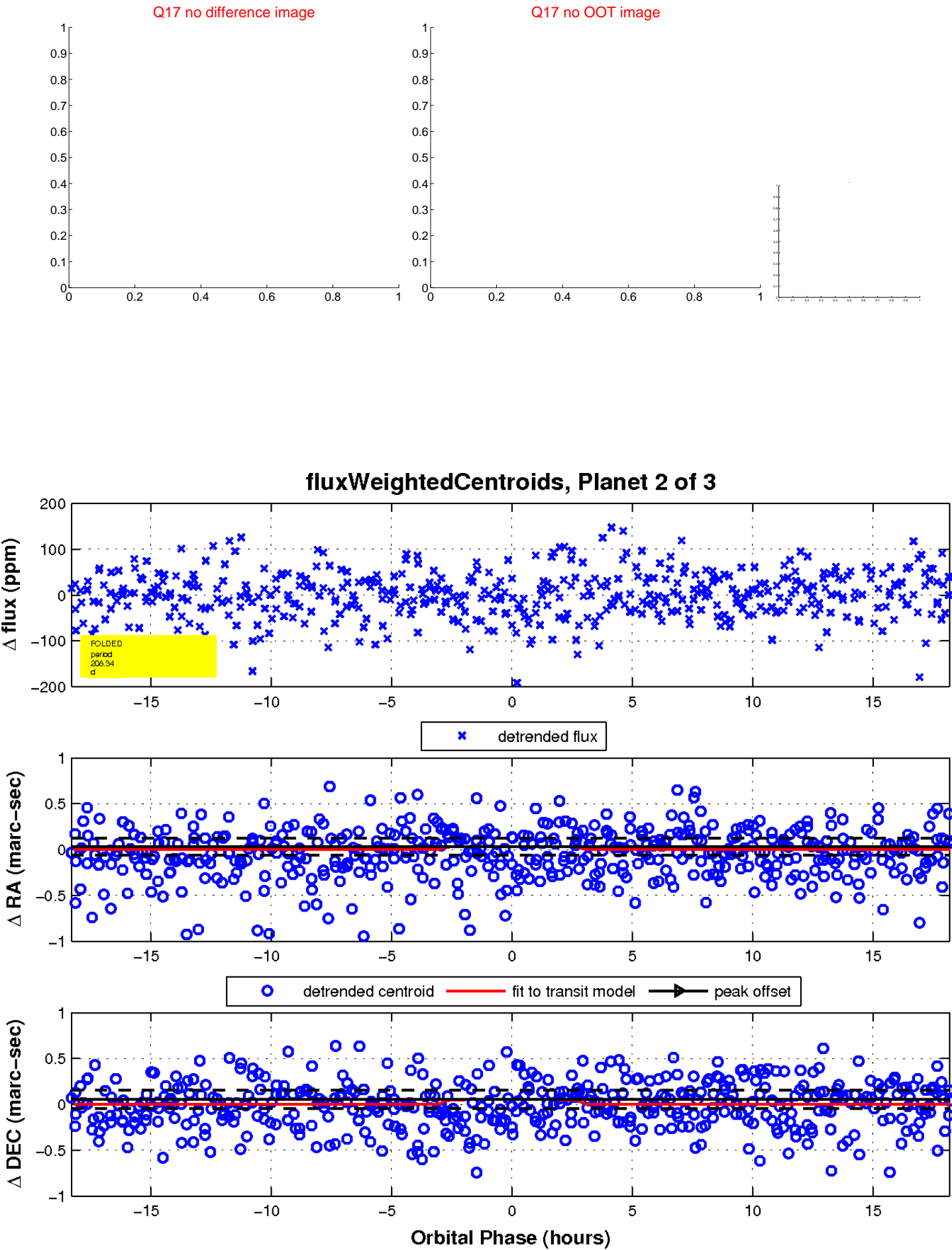
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

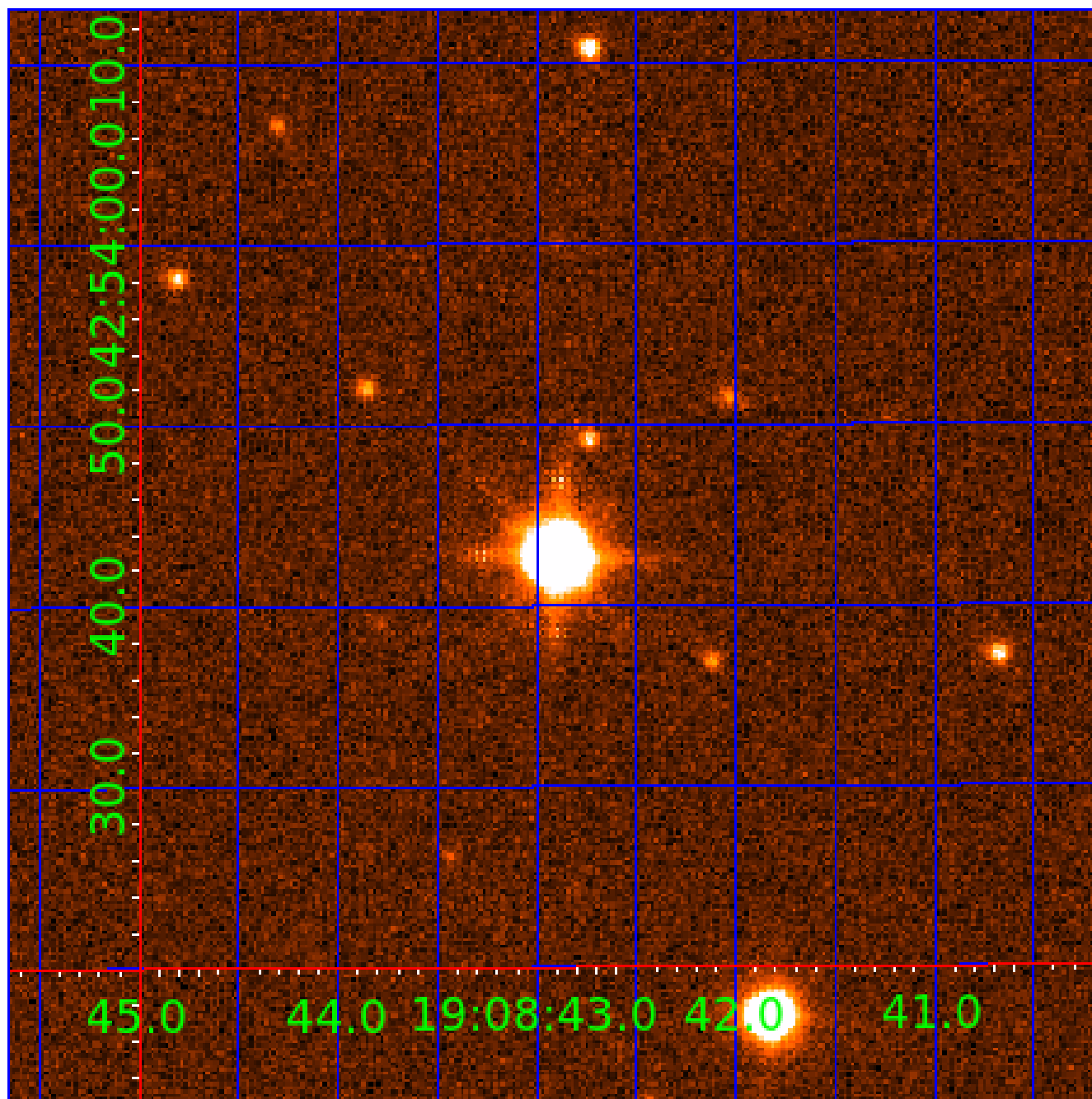


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007268500

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})
007268500-01	OBS	No	1.678294	133.205268	8.4	7.235	11.0	12.5	3.18	7473	1.06	21974.08
007268500-02	OBS	No	208.344964	204.310322	89.0	6.099	15.2	7.9	3.18	7473	3.47	35.48
007268500-03	OBS	No	3.356524	132.054759	11.0	10.777	10.0	12.0	3.18	7473	1.22	8720.64

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007268500-01	OBS	FP	0.00	1	0	0	0	LPP_DV
007268500-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT— INCONSISTENT_TRANS—CENT_FEW_DIFFS
007268500-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—SWEET_NTL—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD—CENT_FEW_DIFFS

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

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

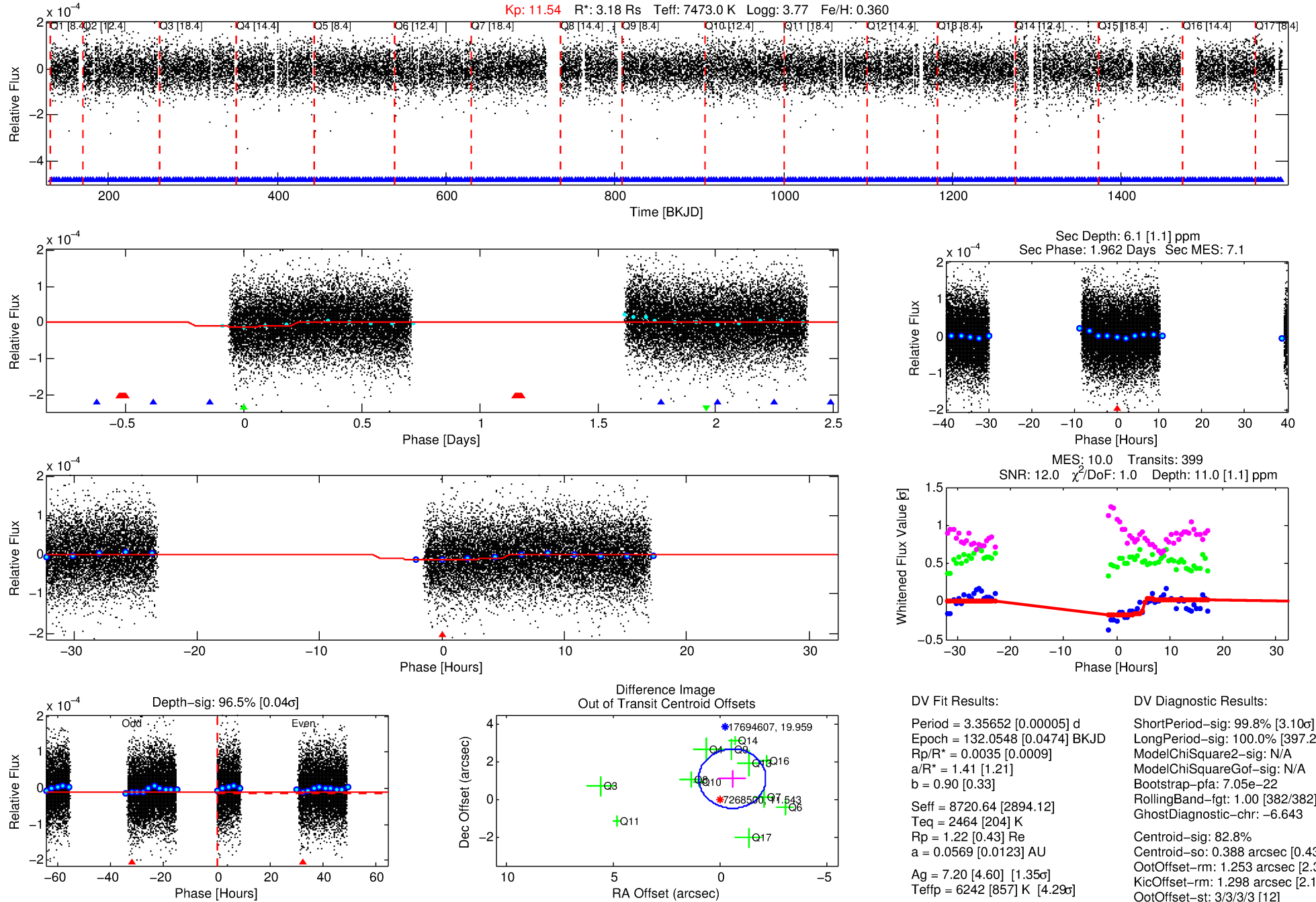
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007268500-03

No Significant Match Found

DV One-Page Summary

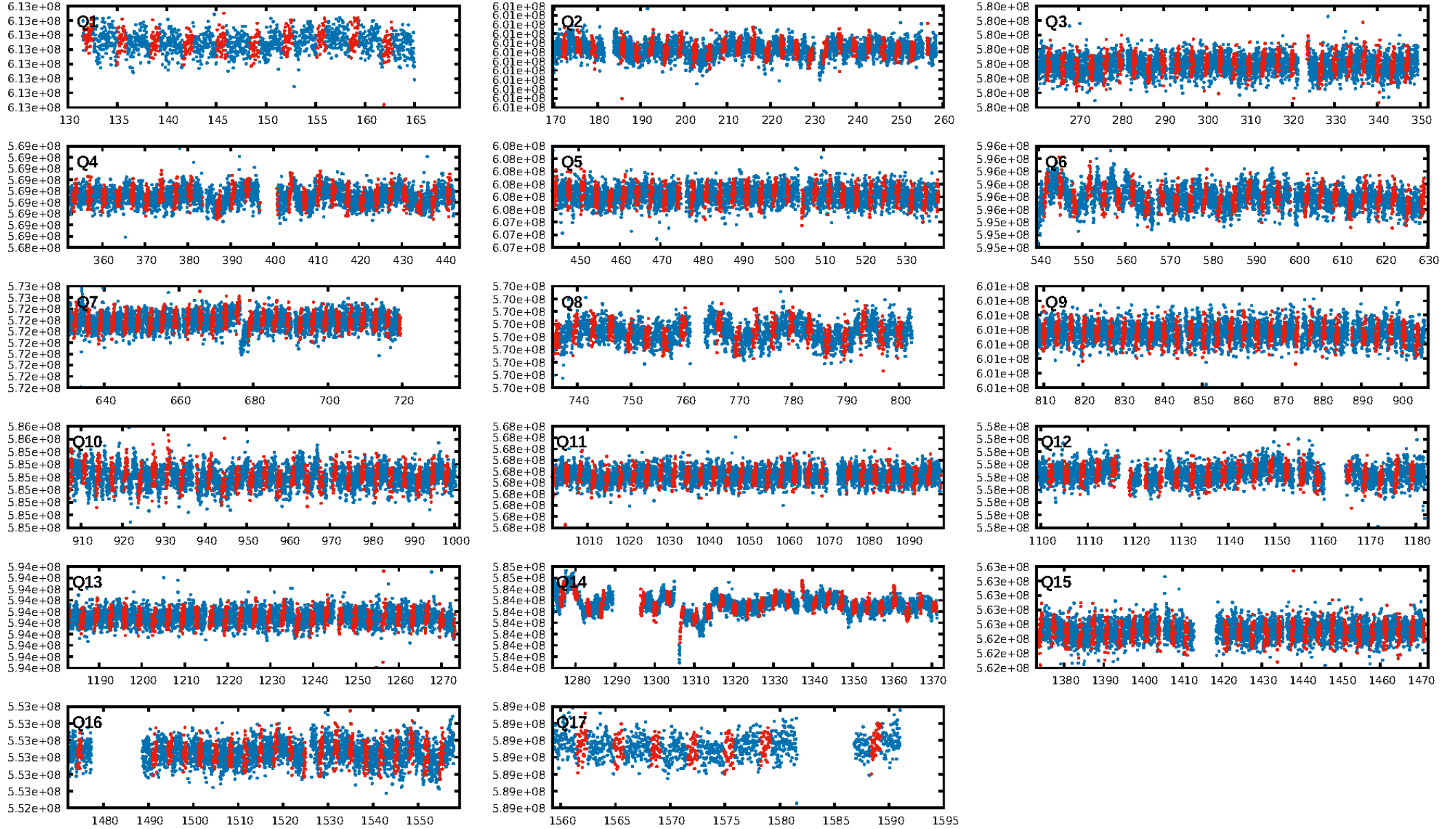
KIC: 7268500 Candidate: 3 of 3 Period: 3.357 d



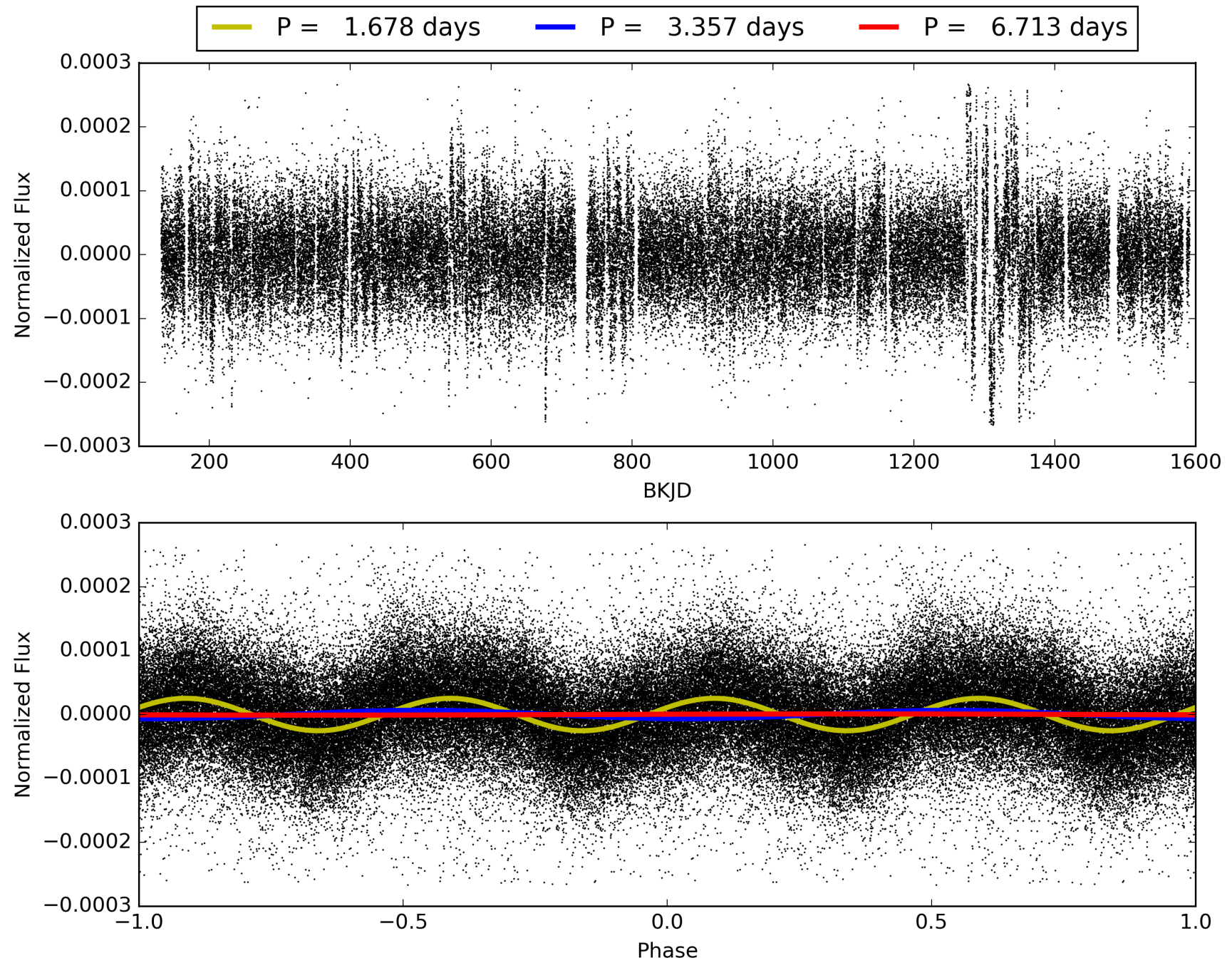
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 11:23:01 Z

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

TCE 007268500-03, PDC Light Curves

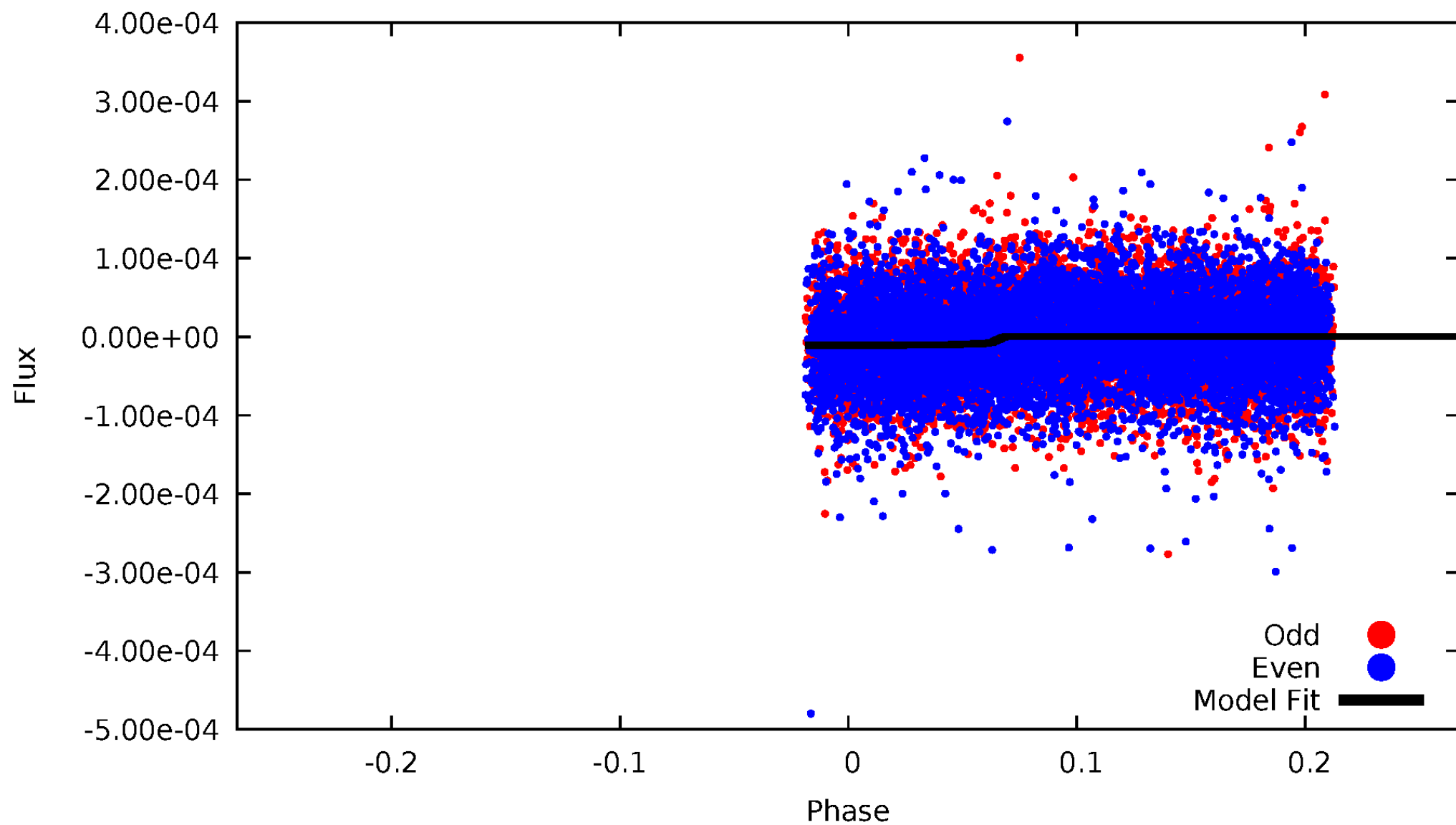


TCE 007268500-03



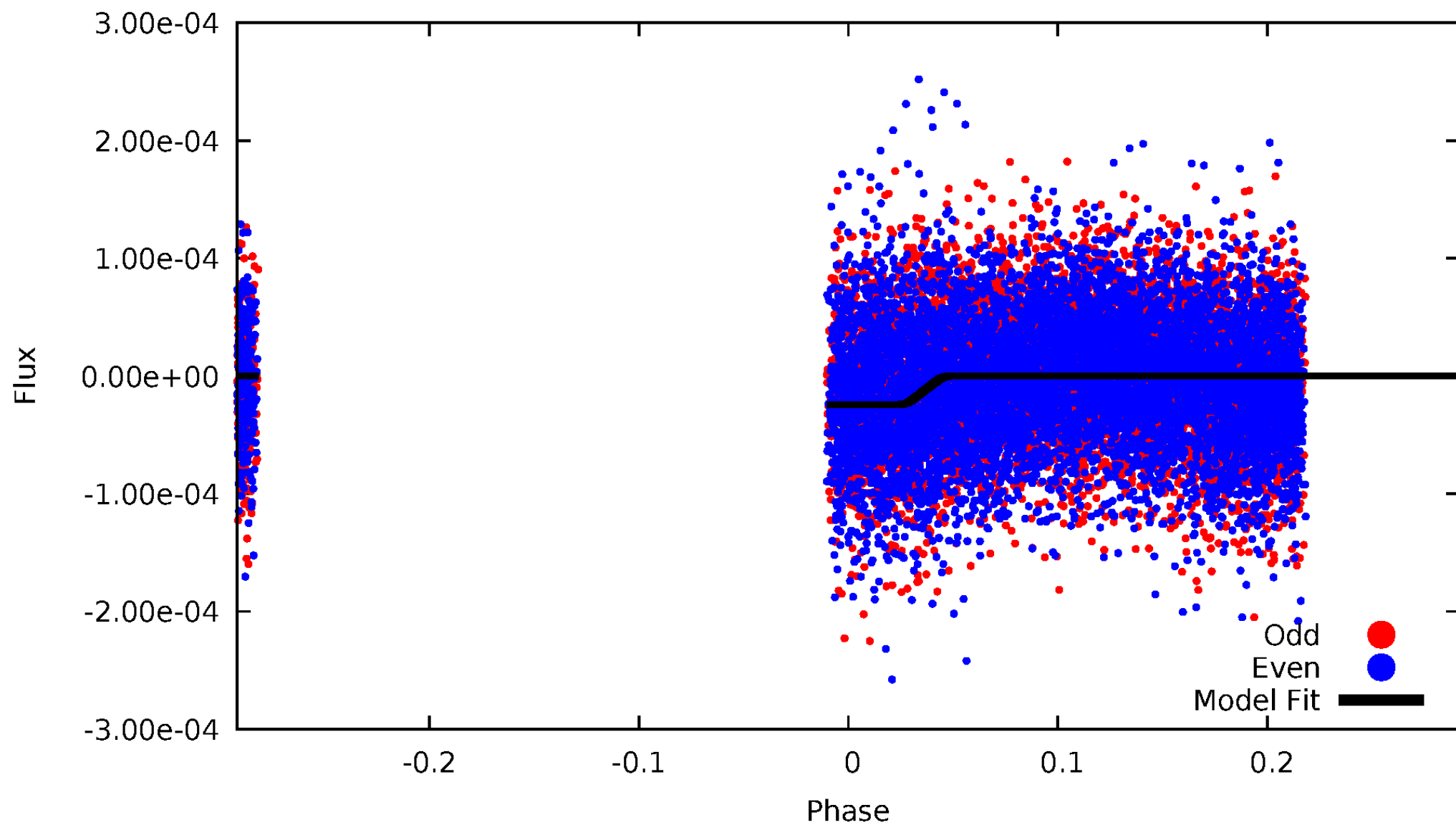
DV Odd/Even

TCE 007268500-03



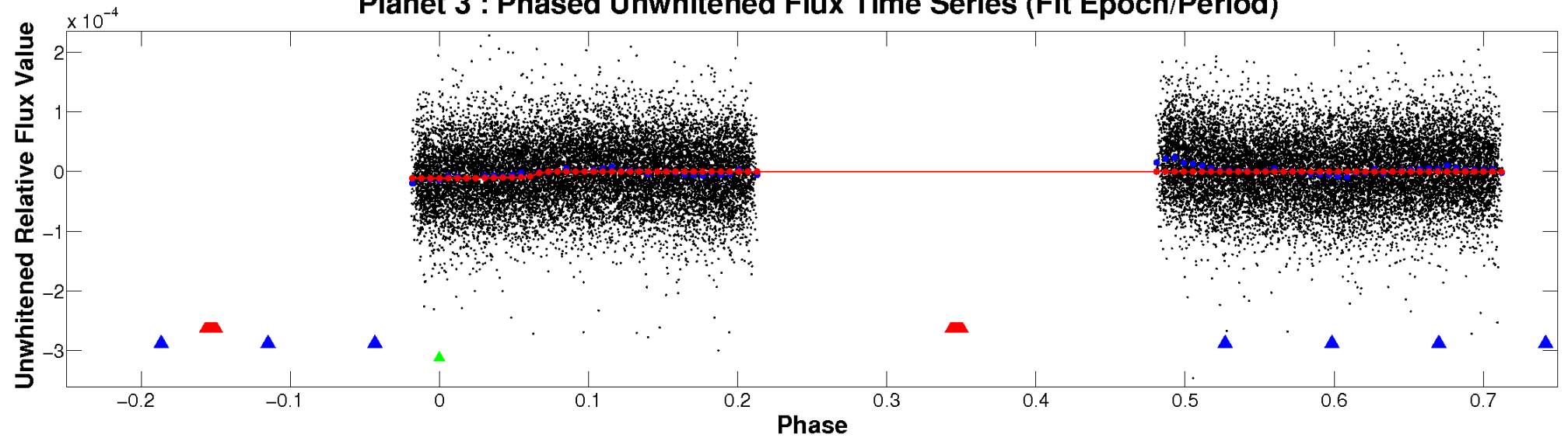
ALT Odd/Even

TCE 007268500-03

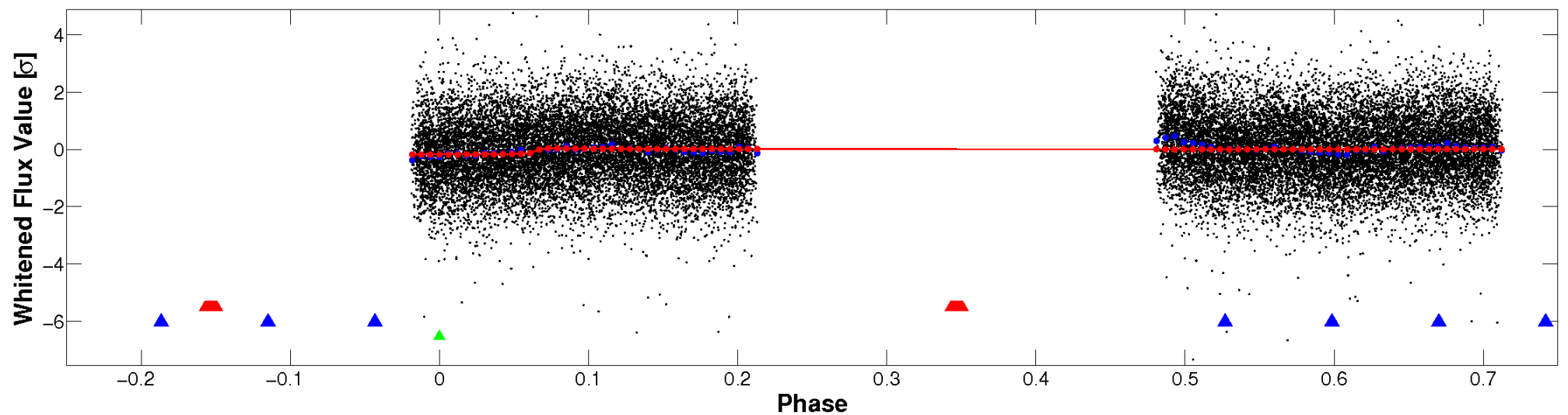


Non-Whitened Vs. Whitened Light Curve

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

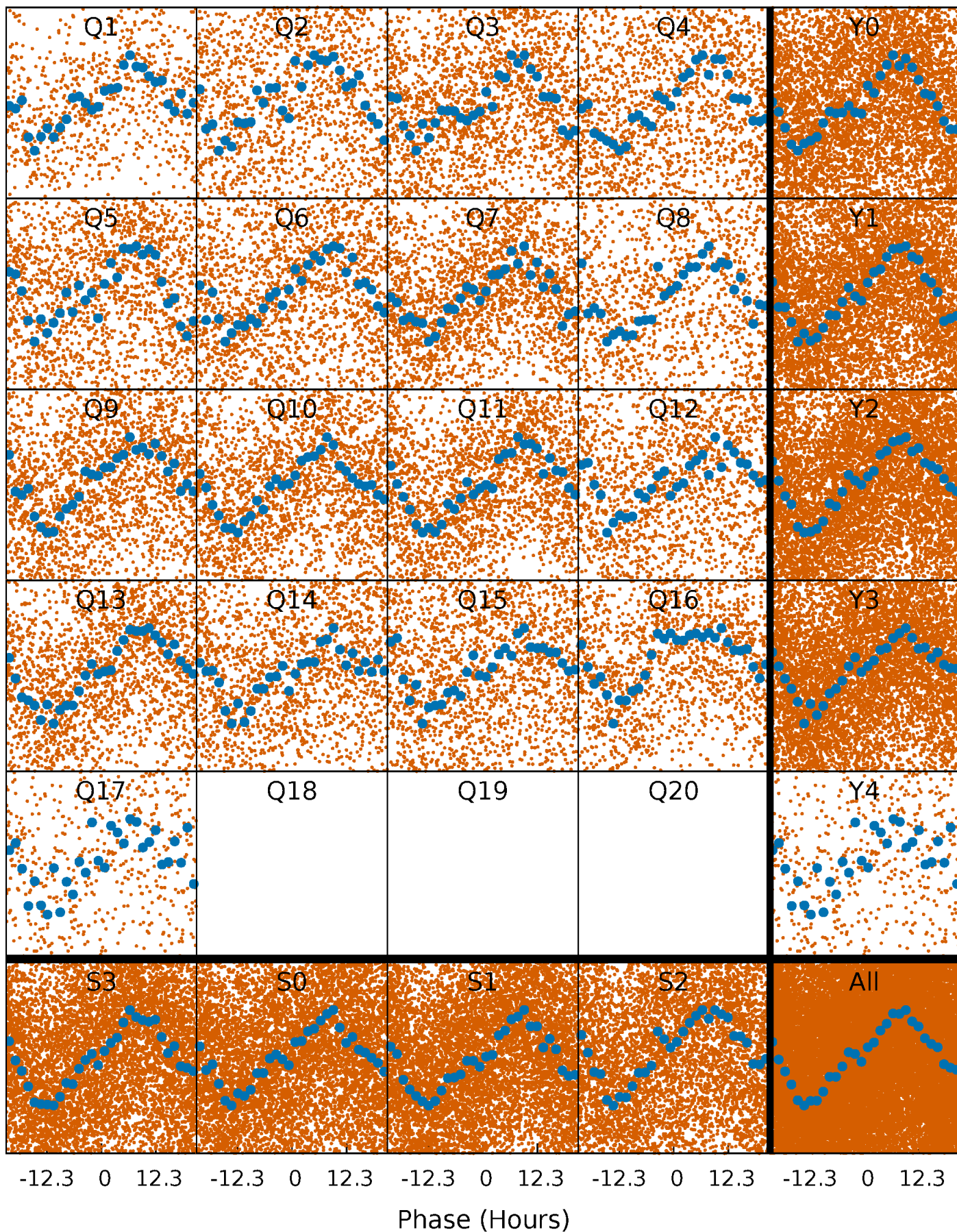


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



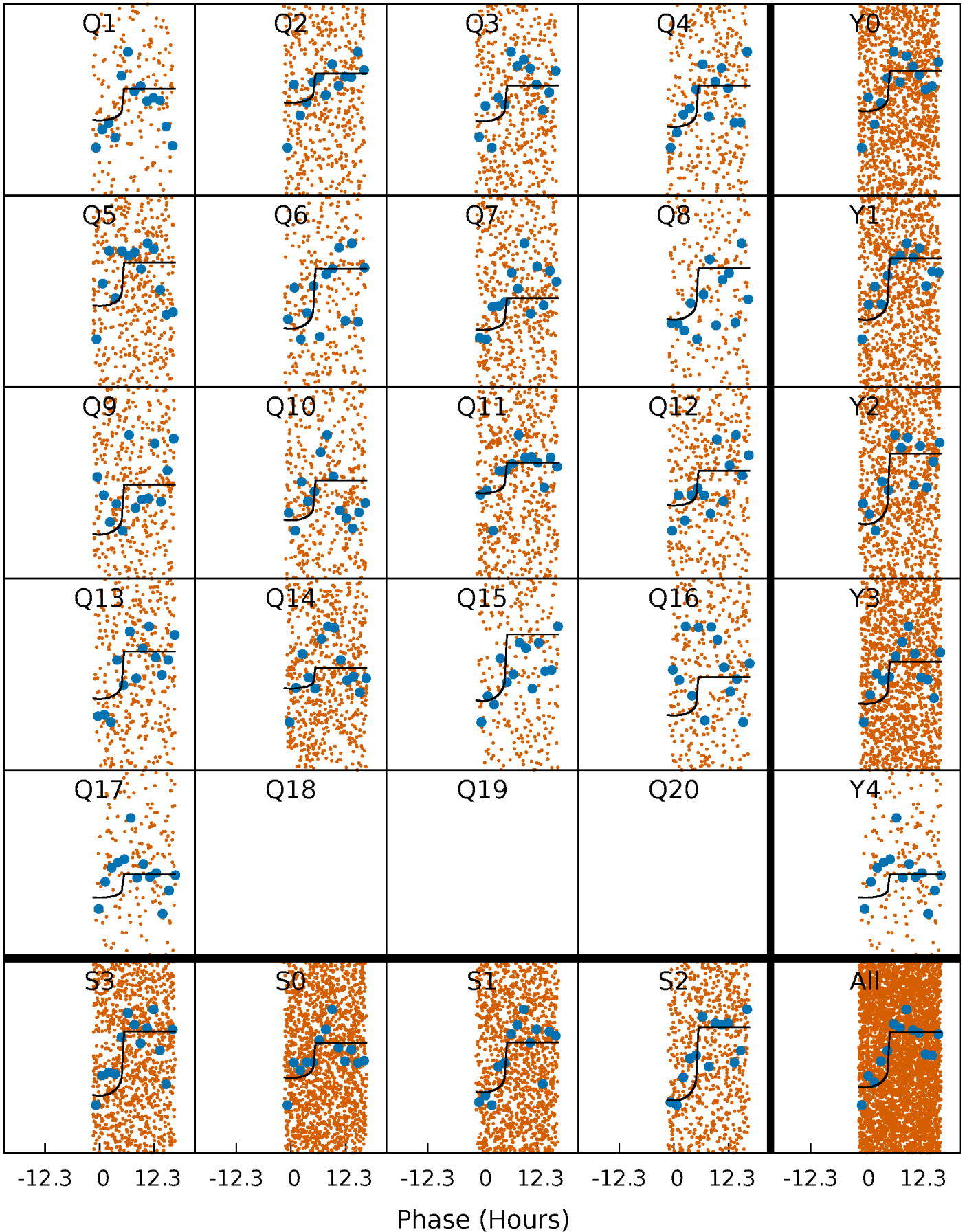
PDC Quarter-Phased Transit Curves

TCE 007268500-03 P= 3.356524 Days $T_0=132.054759$ (BKJD)



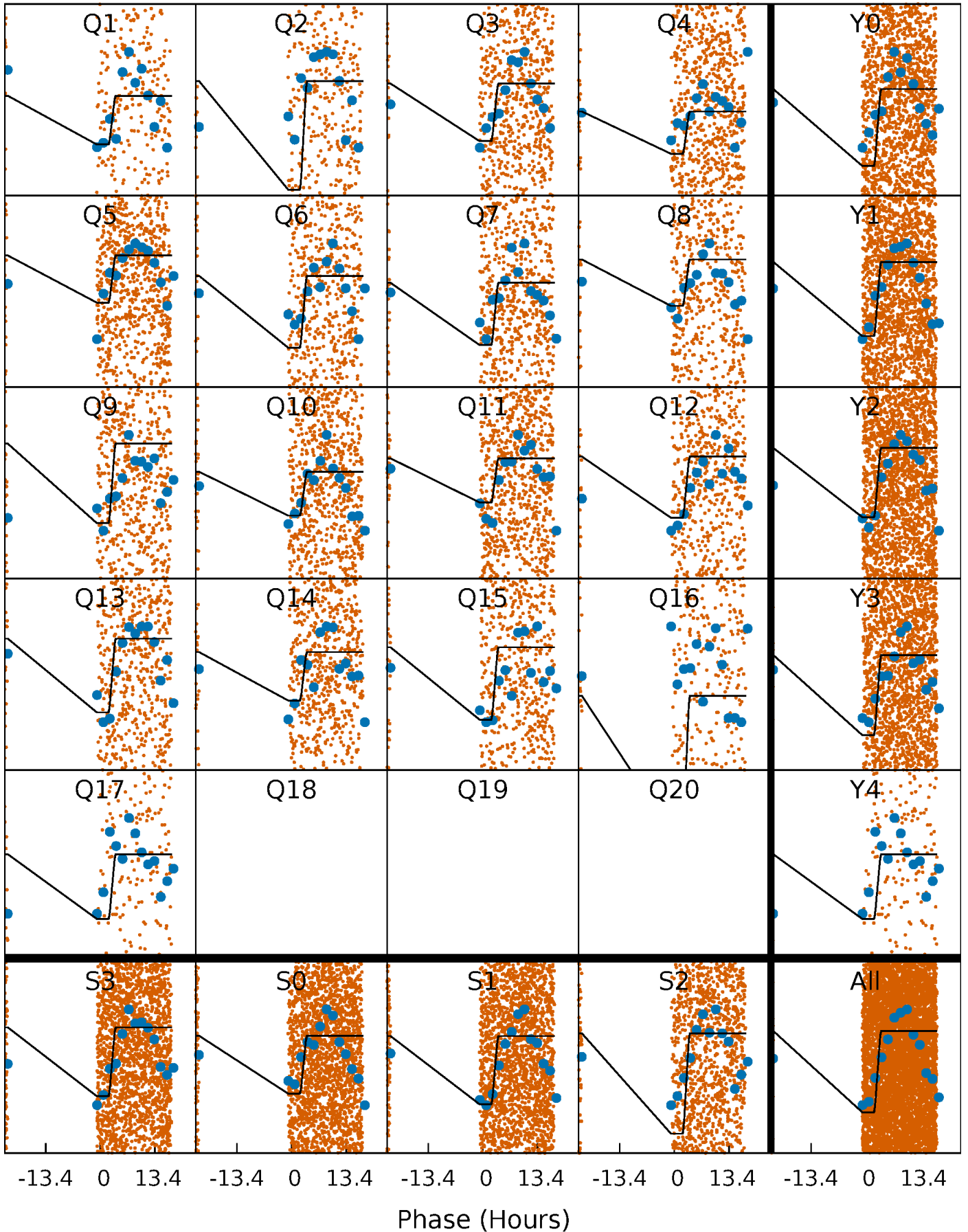
DV Quarter-Phased Transit Curves

TCE 007268500-03 P= 3.356524 Days $T_0=132.054759$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

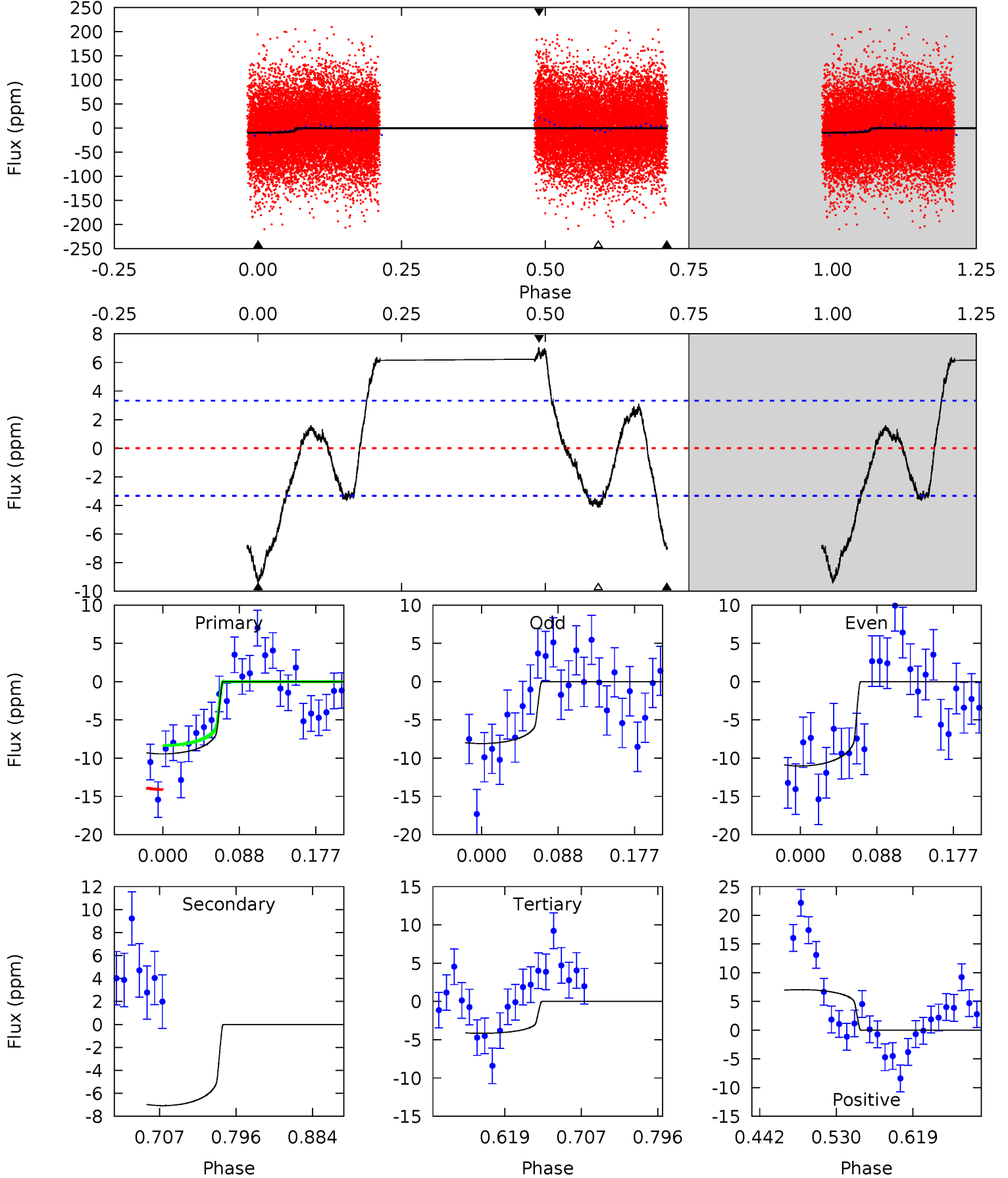
TCE 007268500-03 P= 3.356549 Days $T_0=132.025809$ (BKJD)



DV Model-Shift Uniqueness Test

007268500-03, P = 3.356524 Days, E = 128.698235 Days

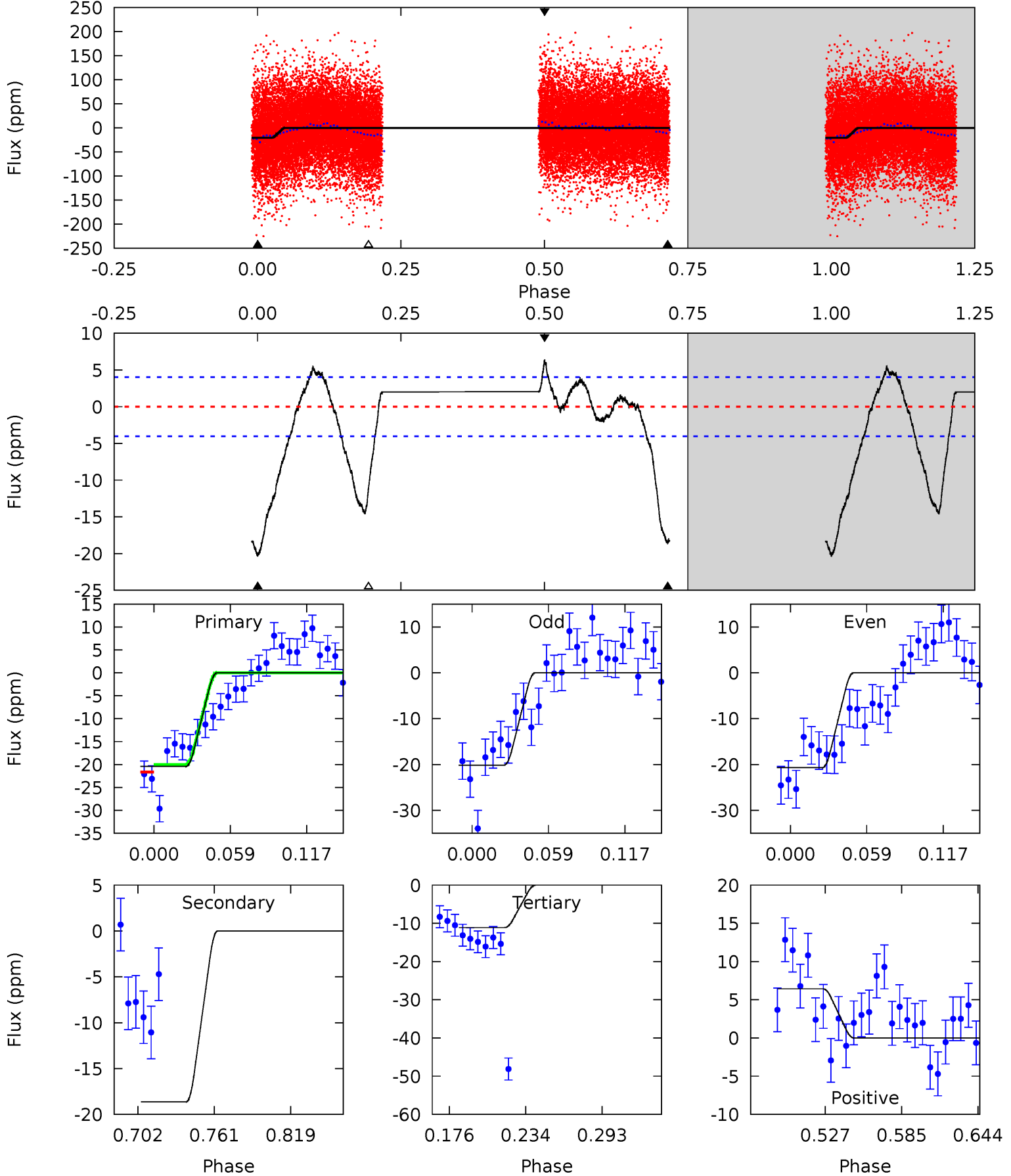
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.0	9.76	5.74	9.73	4.59	1.70	4.49	7.28	3.29	4.02	0.03	2.02	1.10	0.43	3.09



Alt Model-Shift Uniqueness Test

007268500-03, P = 3.356549 Days, E = 128.669260 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.7	21.6	12.9	7.48	4.68	1.89	5.75	10.8	16.2	8.72	14.2	0.32	0.97	0.24	0.69



Stellar Parameters For KIC 007268500

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7473^{+67}_{-89}	$3.772^{+0.186}_{-0.124}$	$0.360^{+0.050}_{-0.200}$	$3.179^{+0.633}_{-0.774}$	$2.179^{+0.178}_{-0.268}$	$0.096^{+0.102}_{-0.037}$
	+1%/-1%	+5%/-3%	+14%/-56%	+20%/-24%	+8%/-12%	+107%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 007268500-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-7 ± 1	$1.19^{+0.39}_{-0.34}$	3422^{+179}_{-191}	6302^{+1235}_{-722}	$8.725^{+8.356}_{-3.739}$
Alt.	-19 ± 1	$1.66^{+0.40}_{-0.36}$	3428^{+180}_{-205}	6873^{+896}_{-626}	12^{+7}_{-4}

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

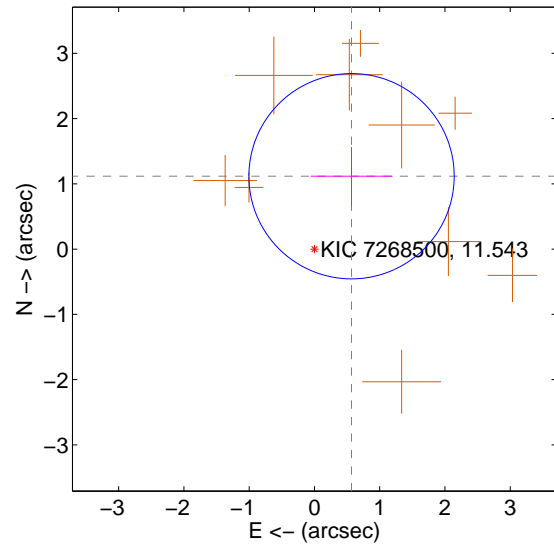
Supplemental centroid analysis for 007268500-03. **Kepler magnitude: 11.54.** Transit SNR 11.98

There are 0 quarters with good PRF difference image offsets

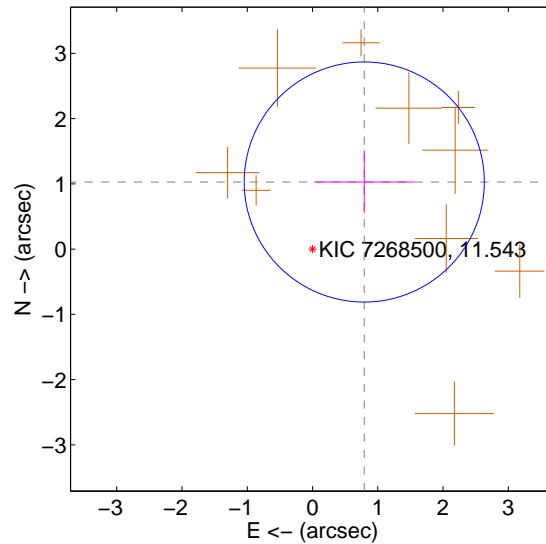
The direct PRF centroid is offset from the target star catalog position by about 0.97 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.253 ± 0.524	2.39	-0.568 ± 0.628	1.116 ± 0.445
PRF-fit source offset from KIC position	1.298 ± 0.613	2.12	-0.792 ± 0.765	1.028 ± 0.484
photometric centroid source offset	0.39 ± 0.90	0.43	-0.25 ± 0.87	-0.29 ± 0.92

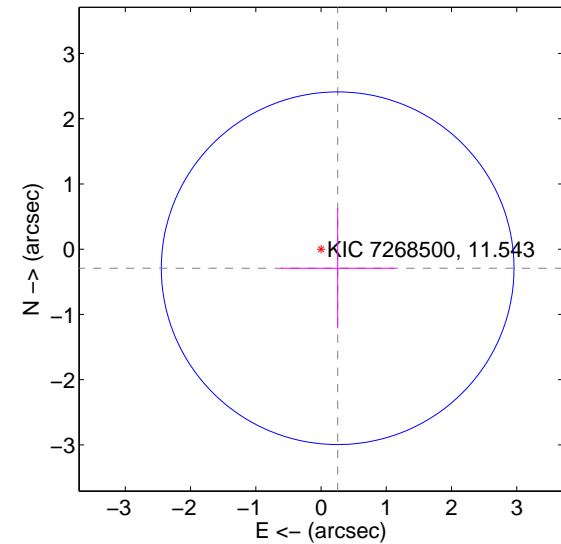
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

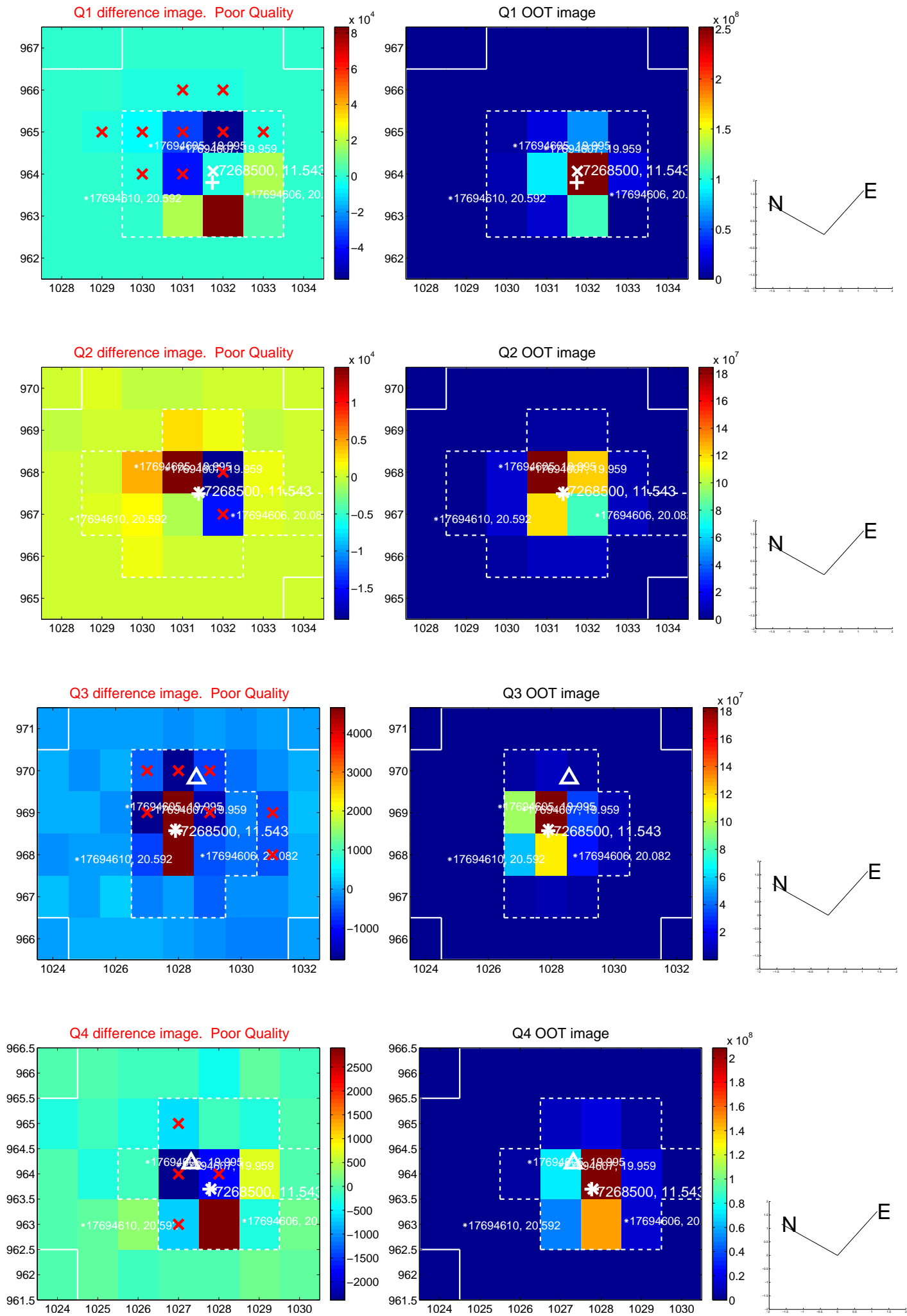


offset from photometric centroids

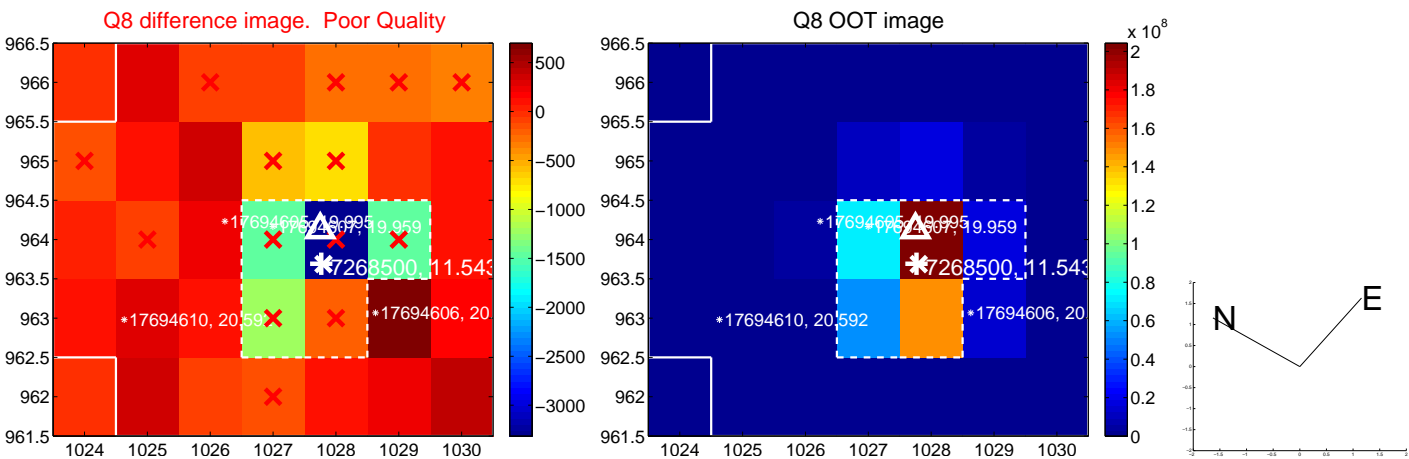
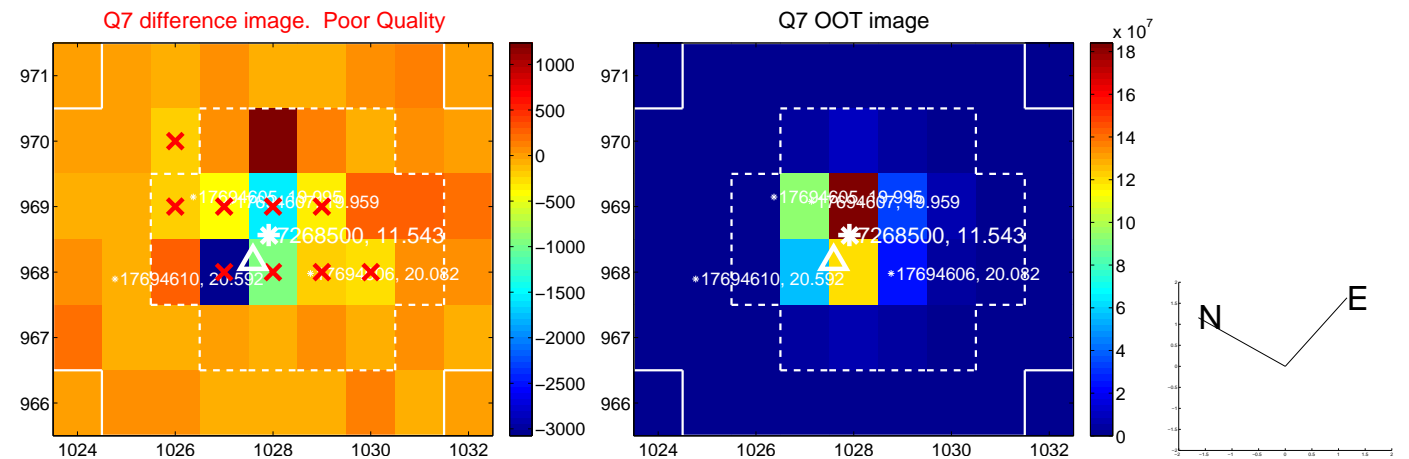
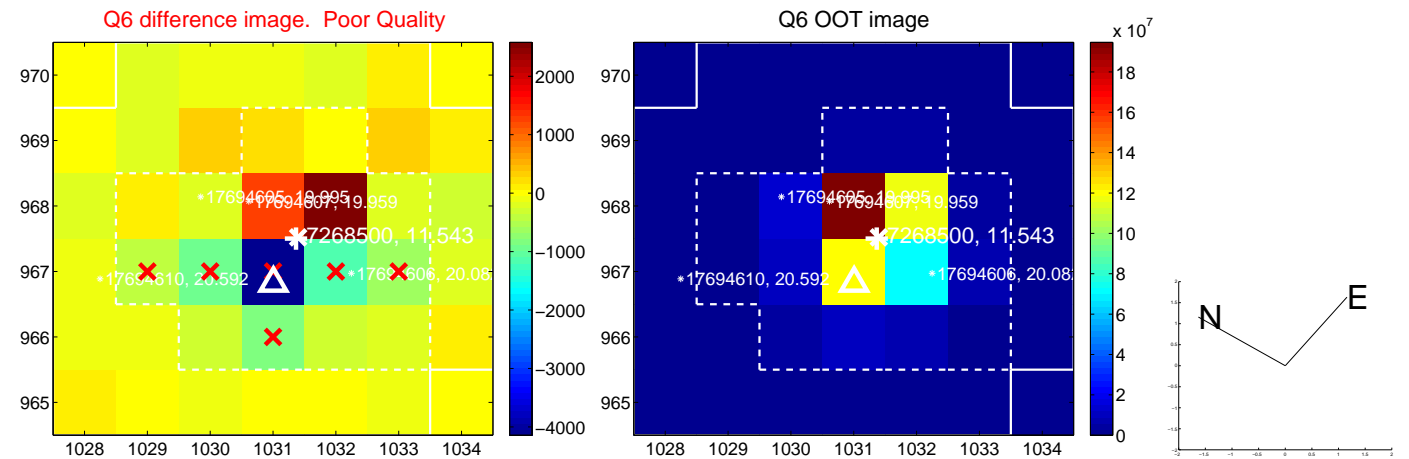
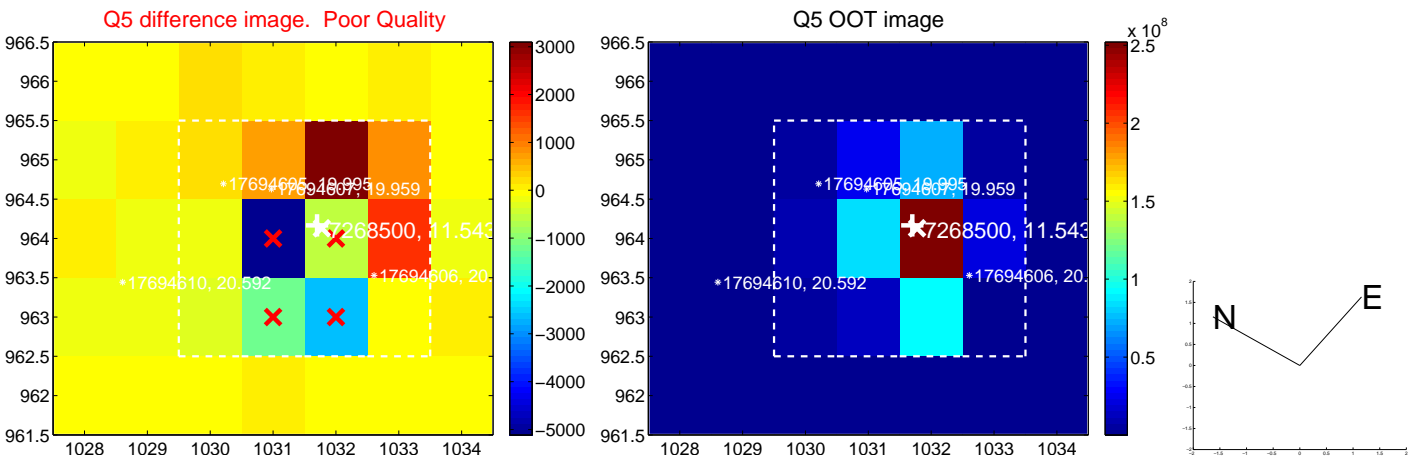


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

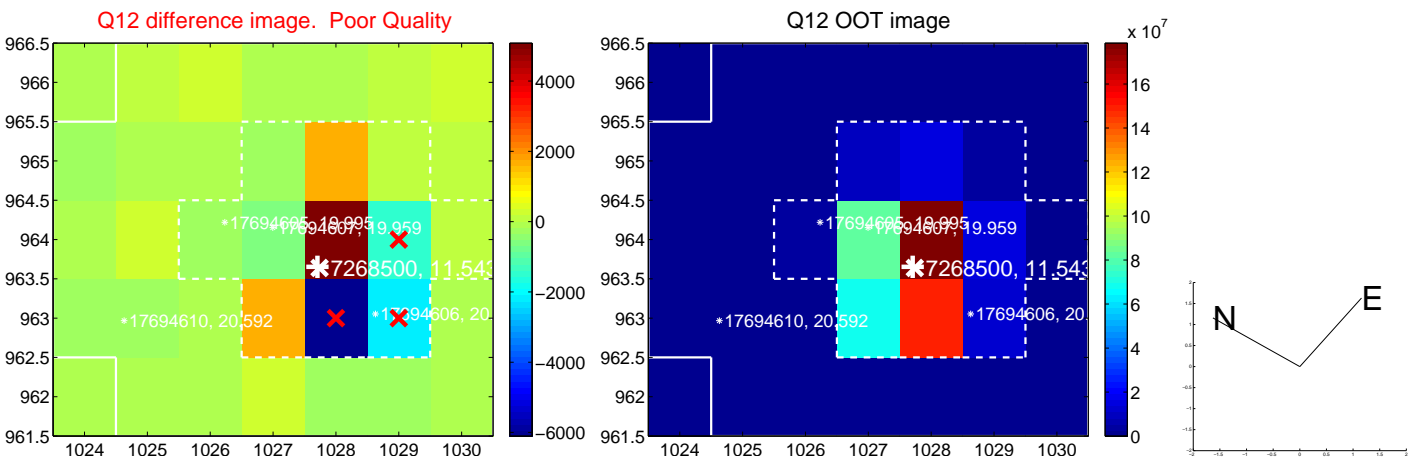
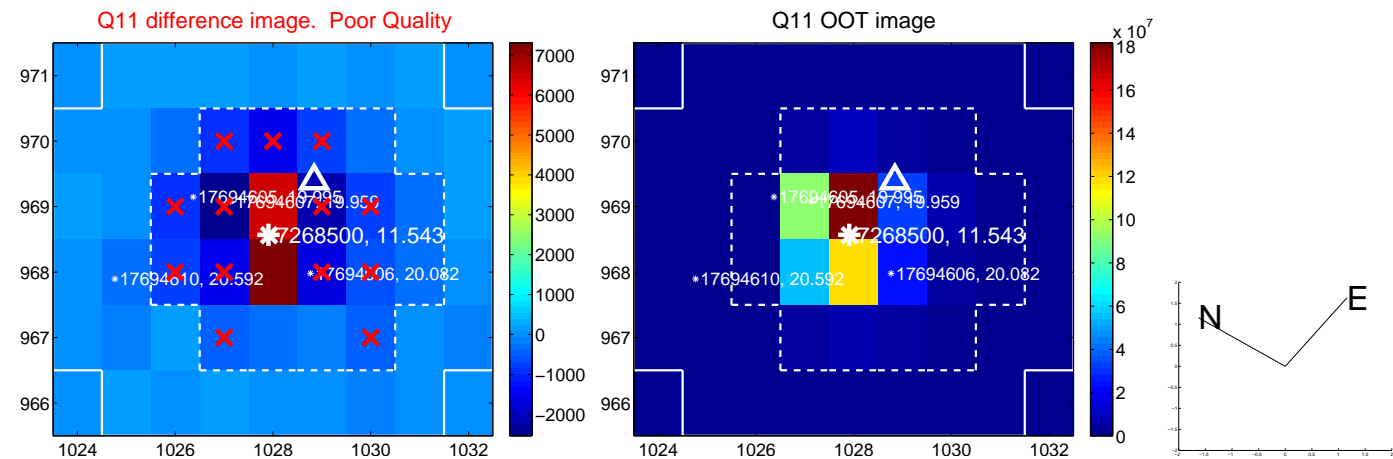
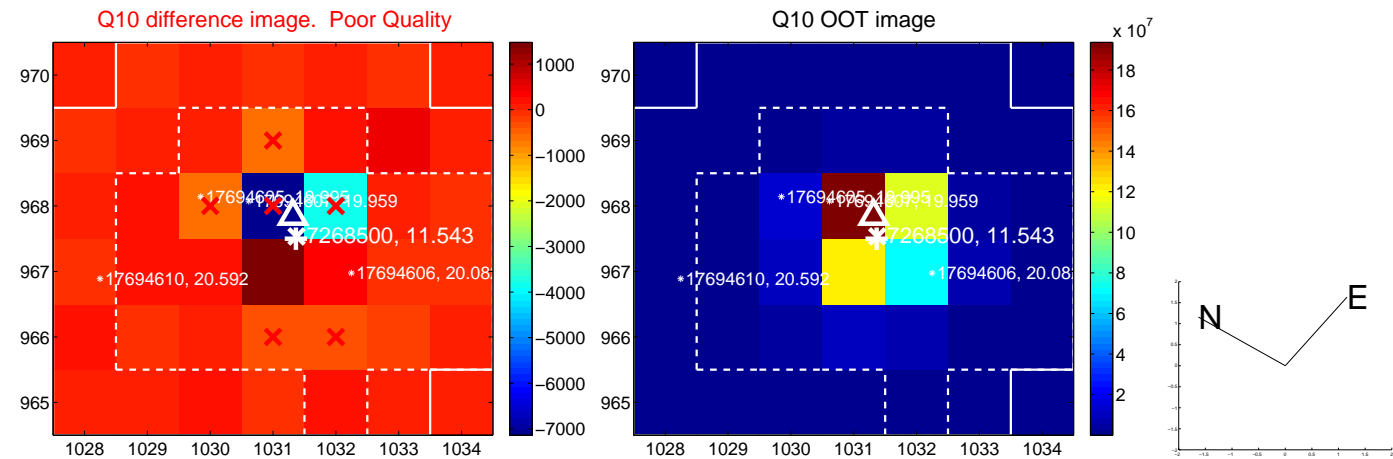
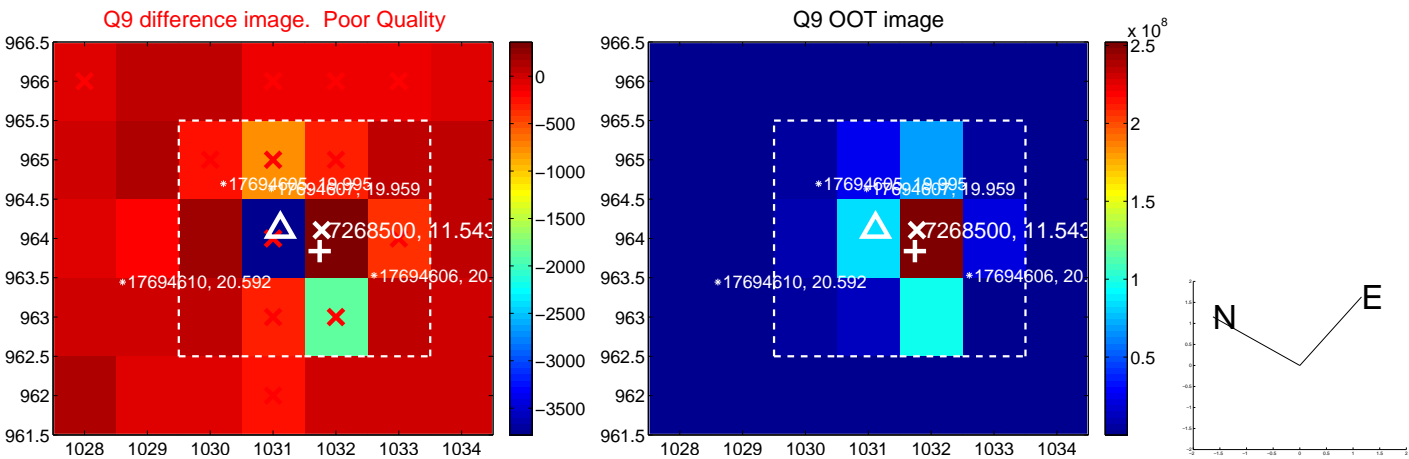
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



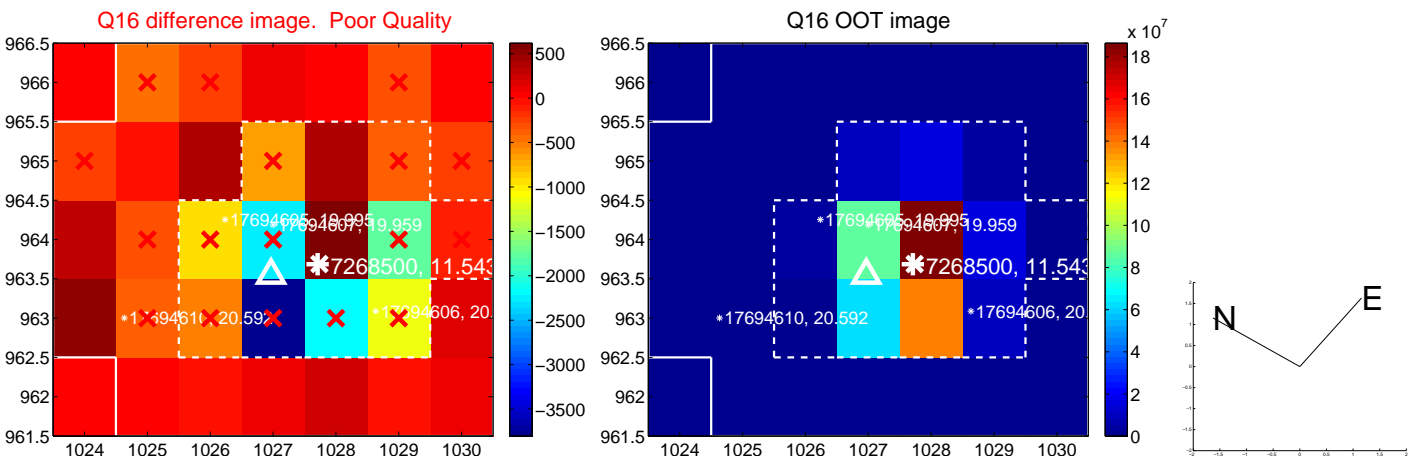
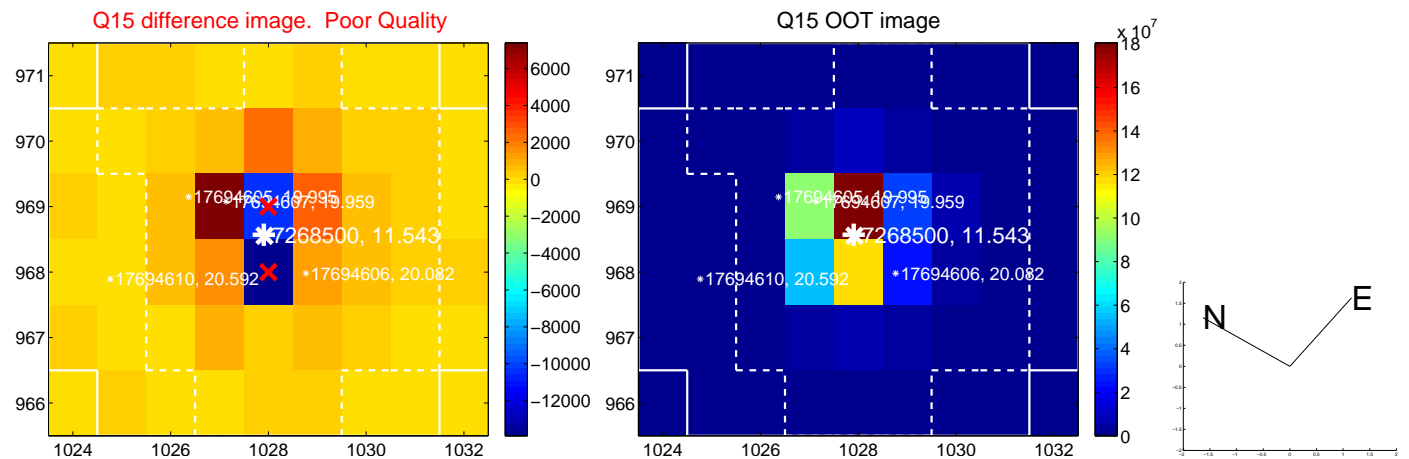
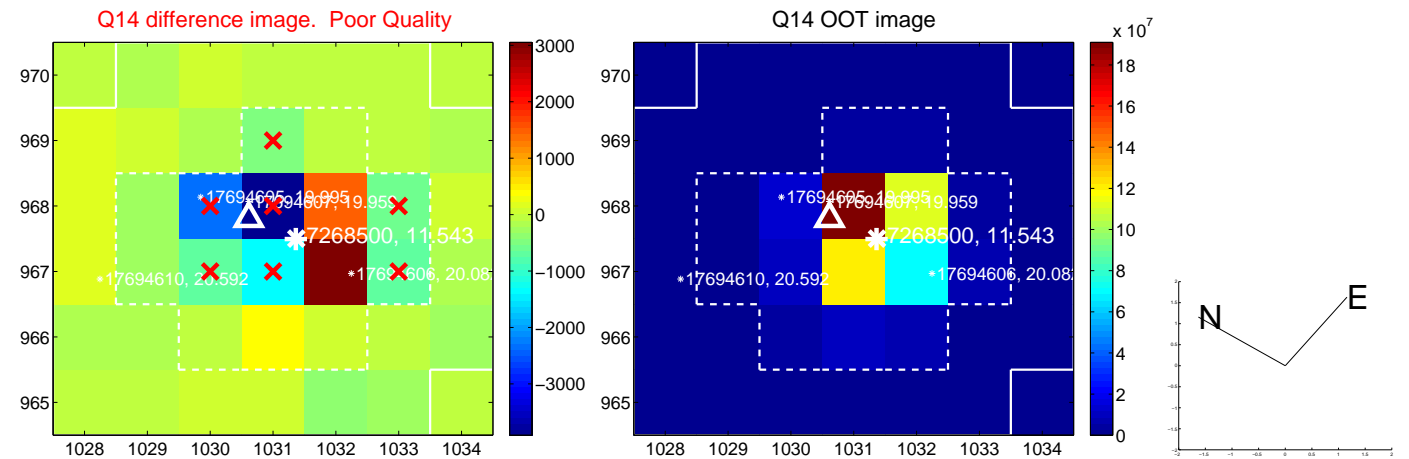
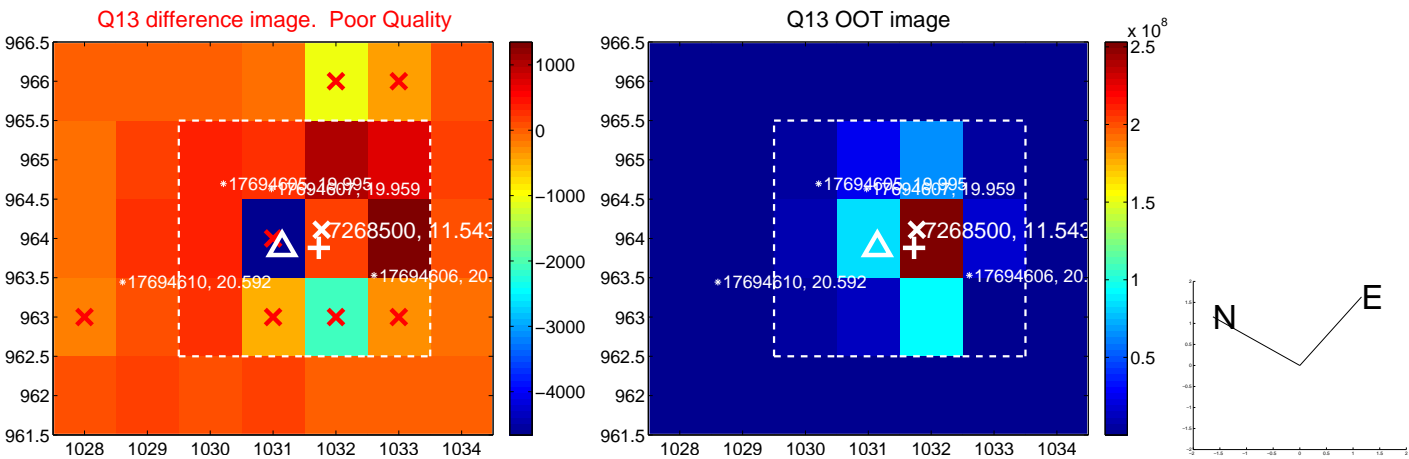
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



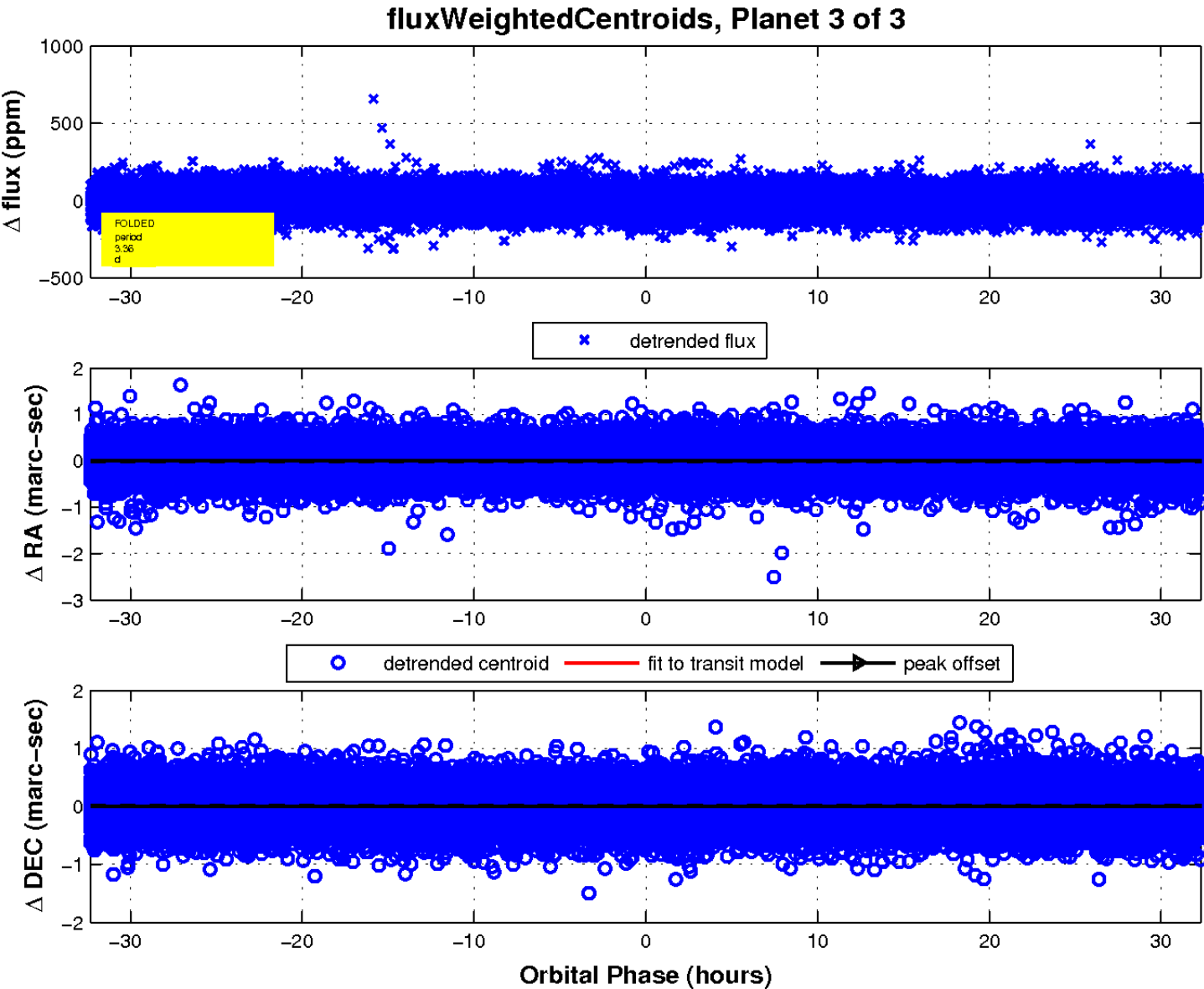
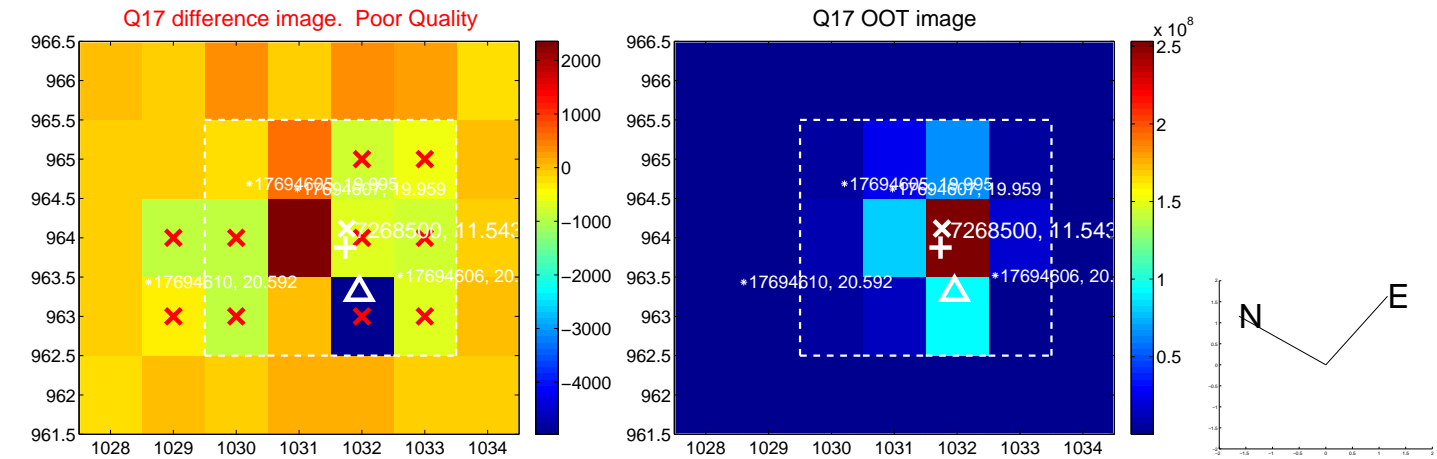
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

