

KIC 011029626

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})
011029626-01	OBS	No	3.543361	134.578383	64.3	15.578	8.0	9.1	0.84	5330	0.87	294.97
011029626-02	OBS	No	329.678898	160.239718	300.6	8.899	9.2	4.2	0.84	5330	1.60	0.70
011029626-03	OBS	No	3.543284	132.837280	70.0	18.465	9.0	12.4	0.84	5330	0.70	294.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011029626-01	OBS	FP	0.00	1	0	0	0	LPP_DV
011029626-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011029626-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD

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

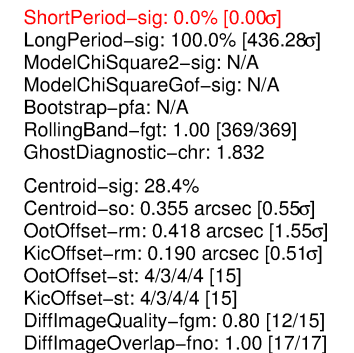
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

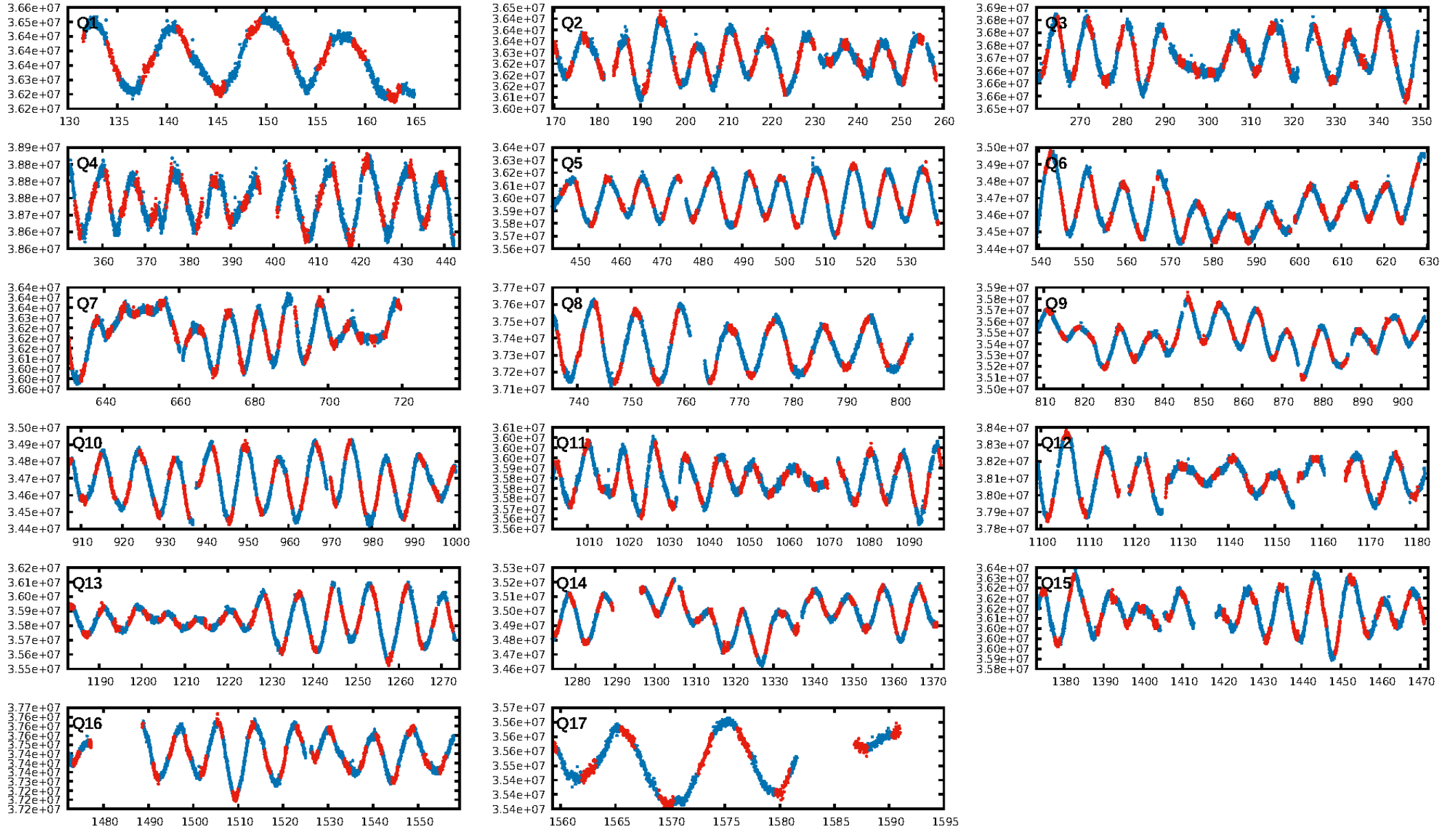
Ephemeris Match Information For 011029626-01

No Significant Match Found

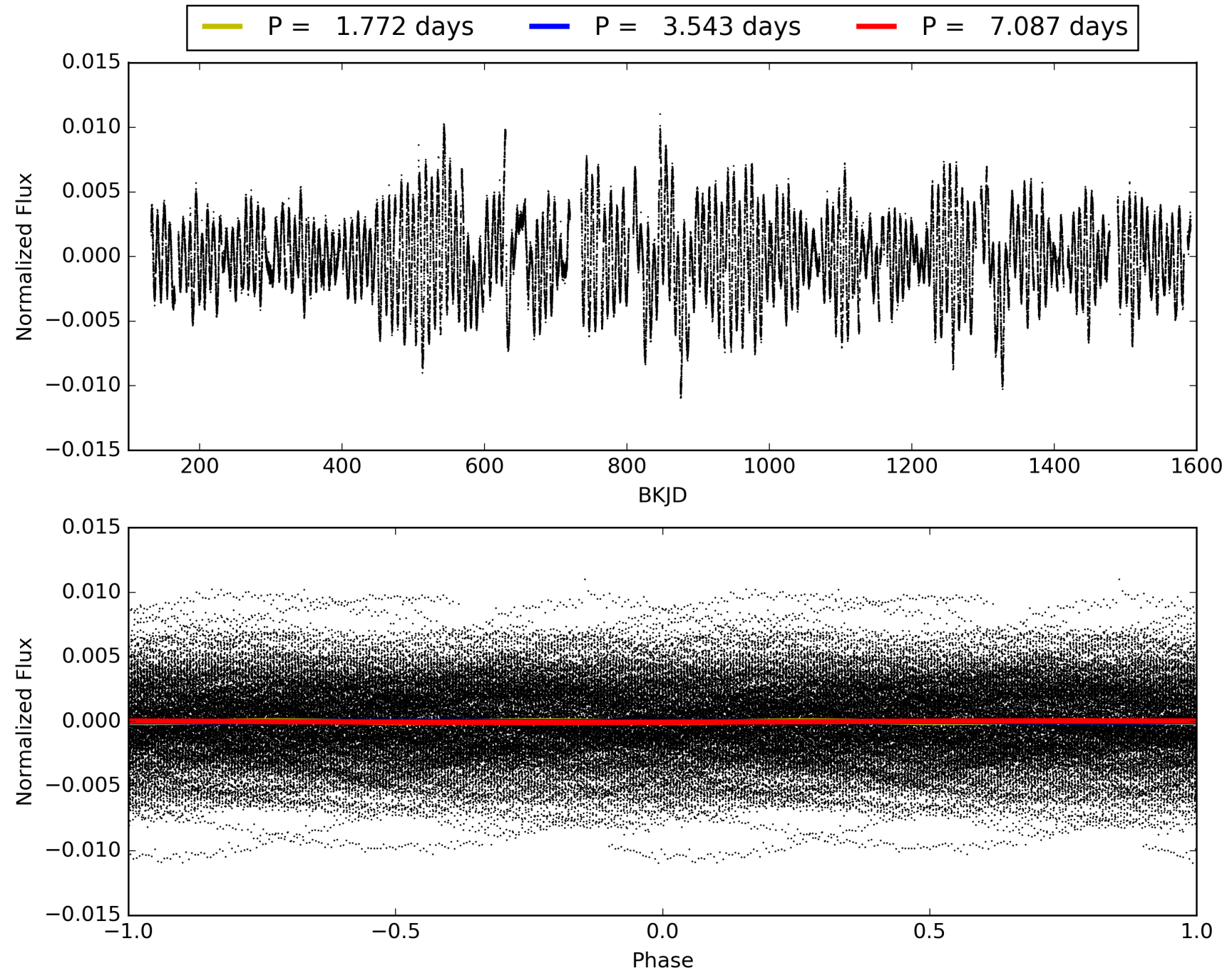
KIC: 11029626 Candidate: 1 of 3 Period: 3.543 d



TCE 011029626-01, PDC Light Curves

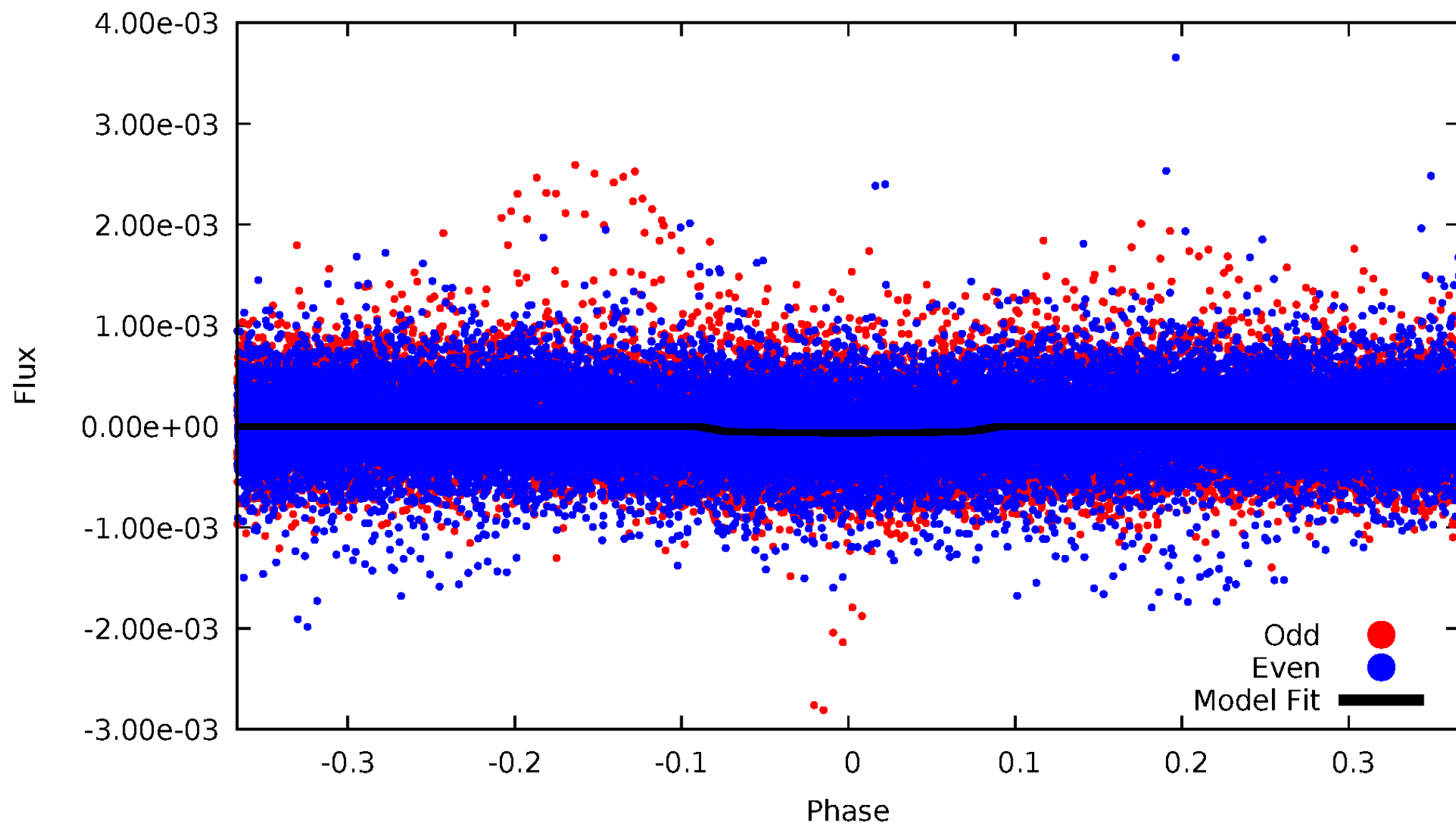


TCE 011029626-01



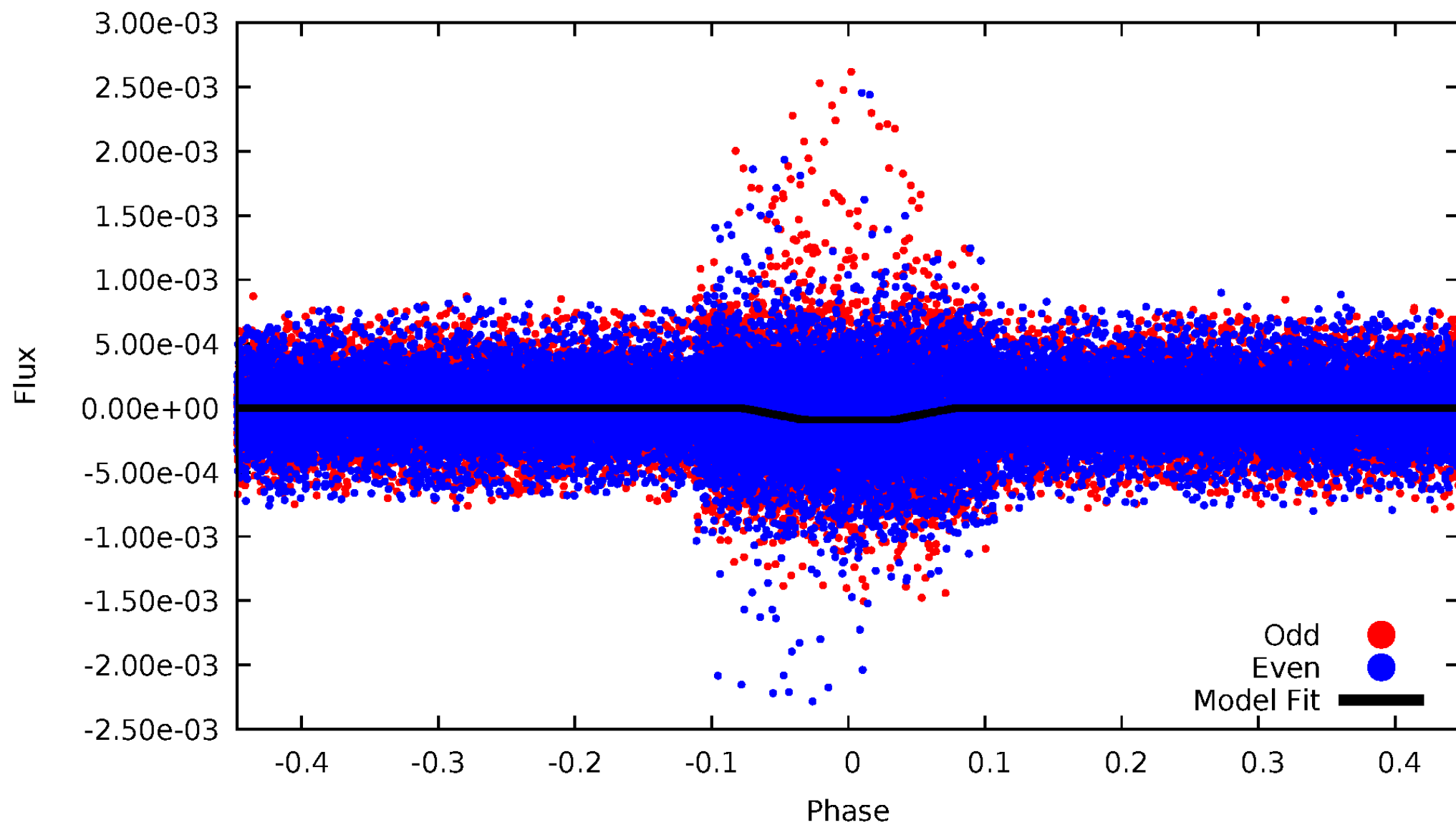
DV Odd/Even

TCE 011029626-01



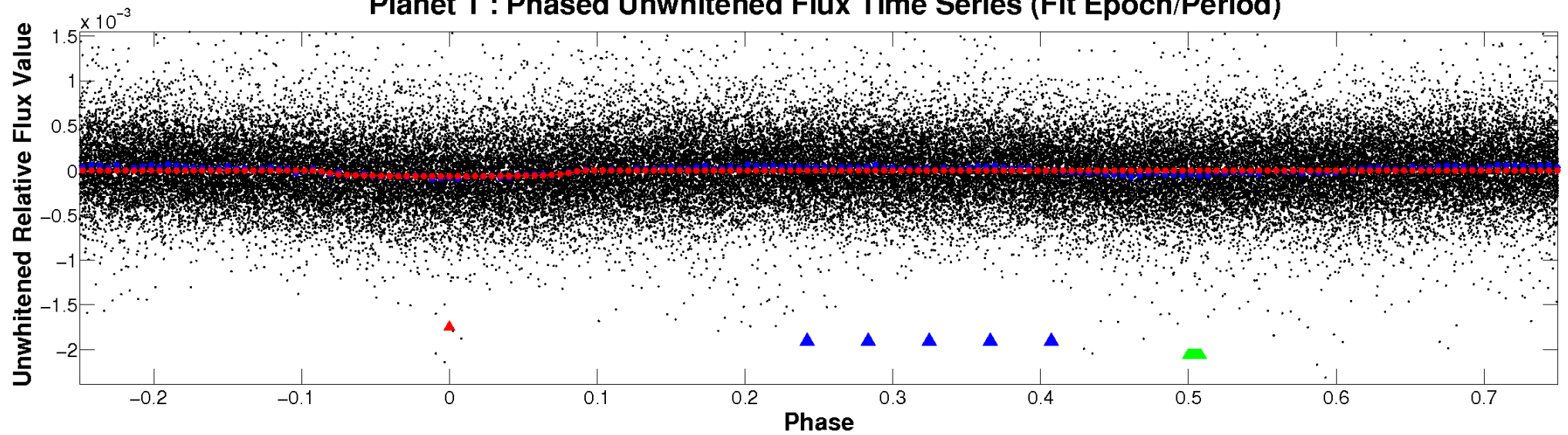
ALT Odd/Even

TCE 011029626-01

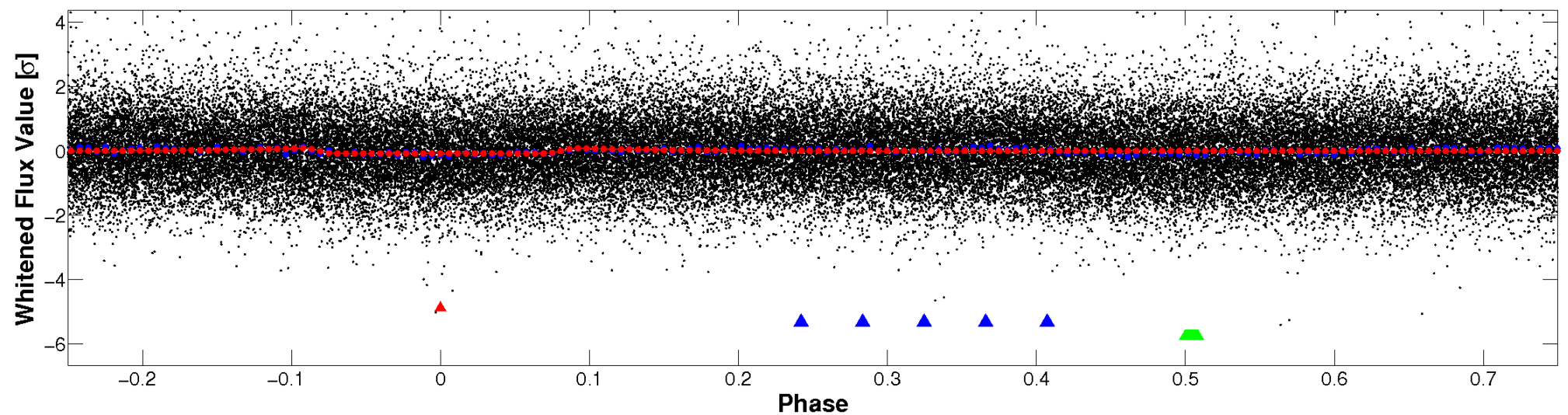


Non-Whitened Vs. Whitened Light Curve

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

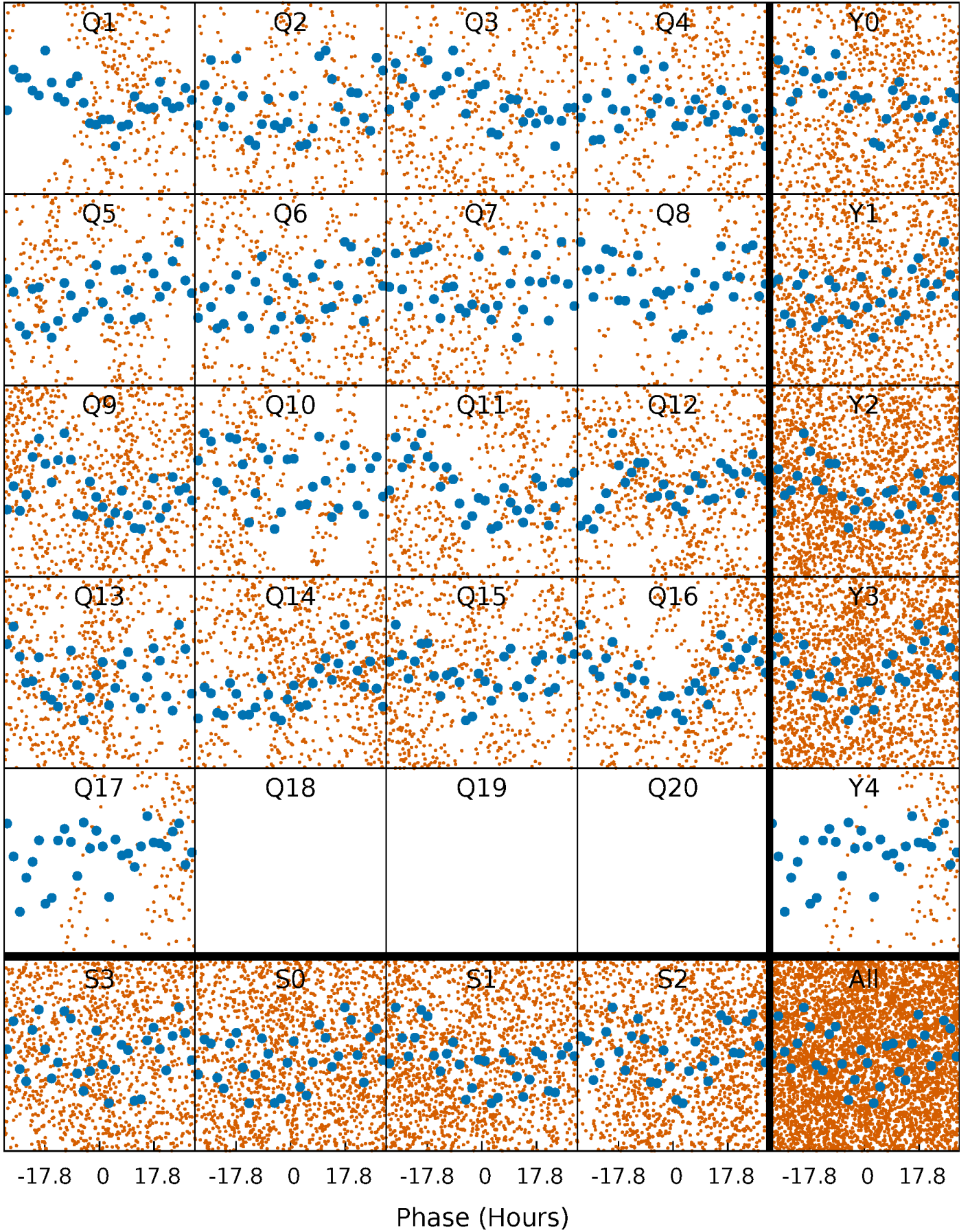


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



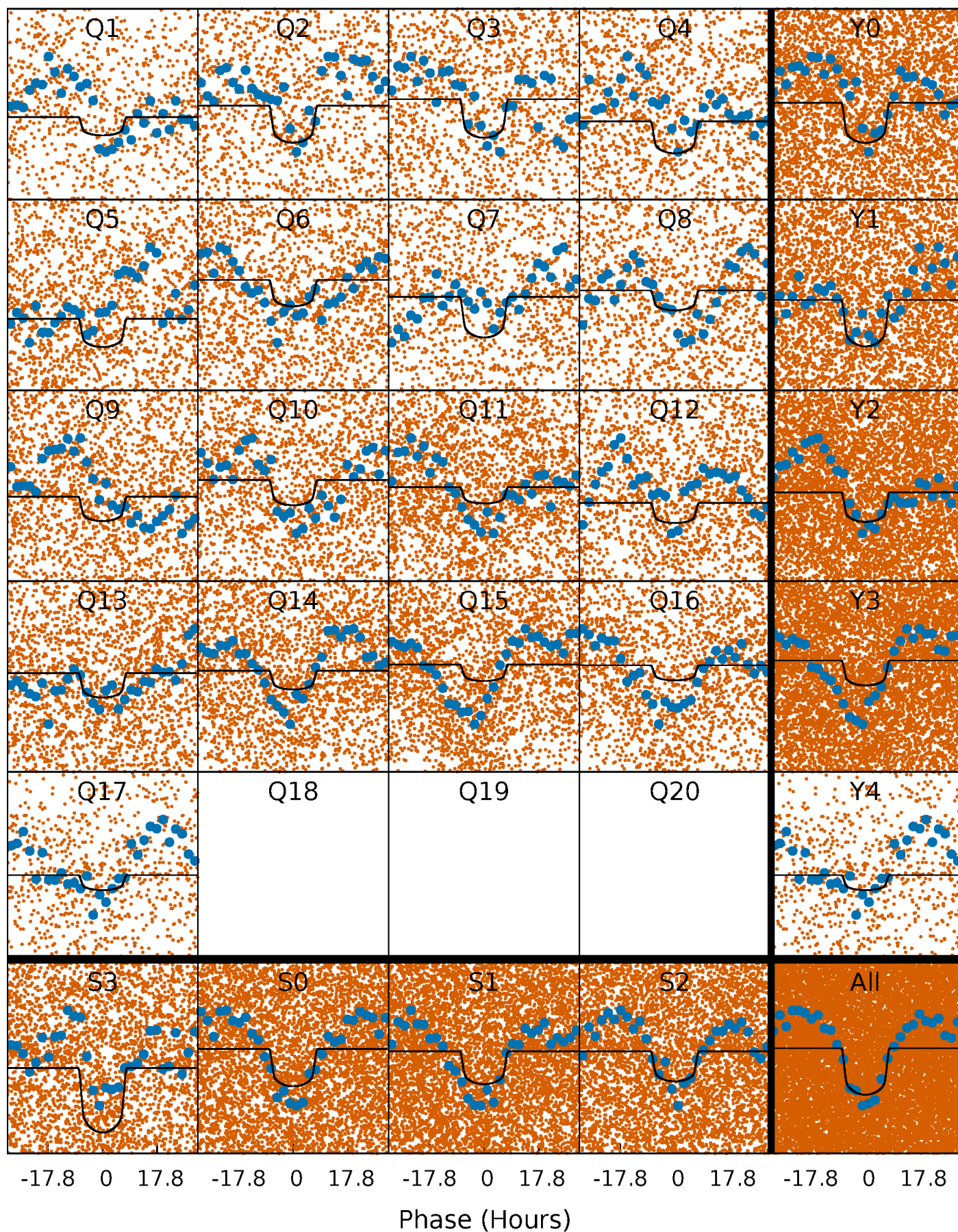
PDC Quarter-Phased Transit Curves

TCE 011029626-01 P= 3.543361 Days $T_0=134.578384$ (BKJD)



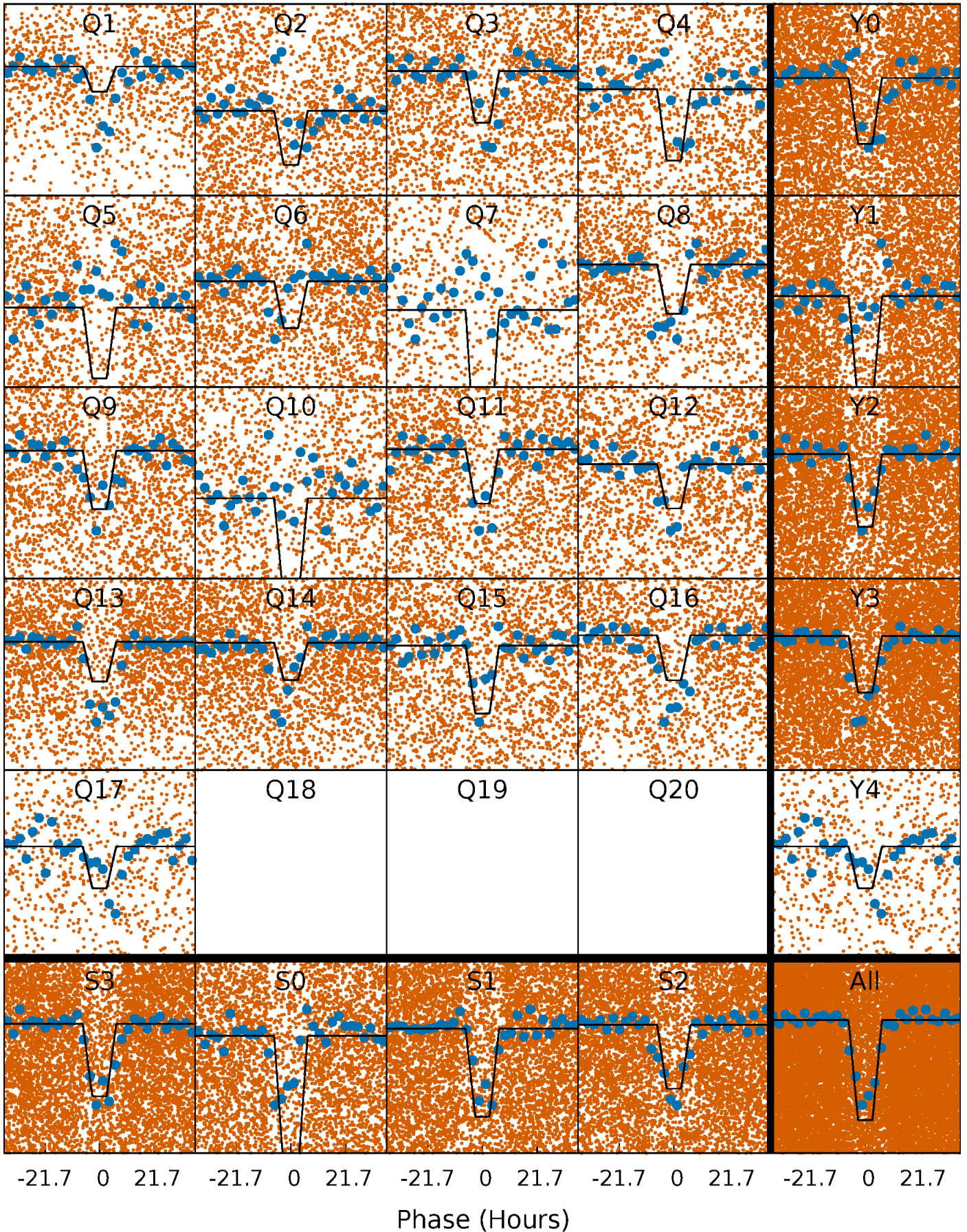
DV Quarter-Phased Transit Curves

TCE 011029626-01 P= 3.543361 Days $T_0=134.578384$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

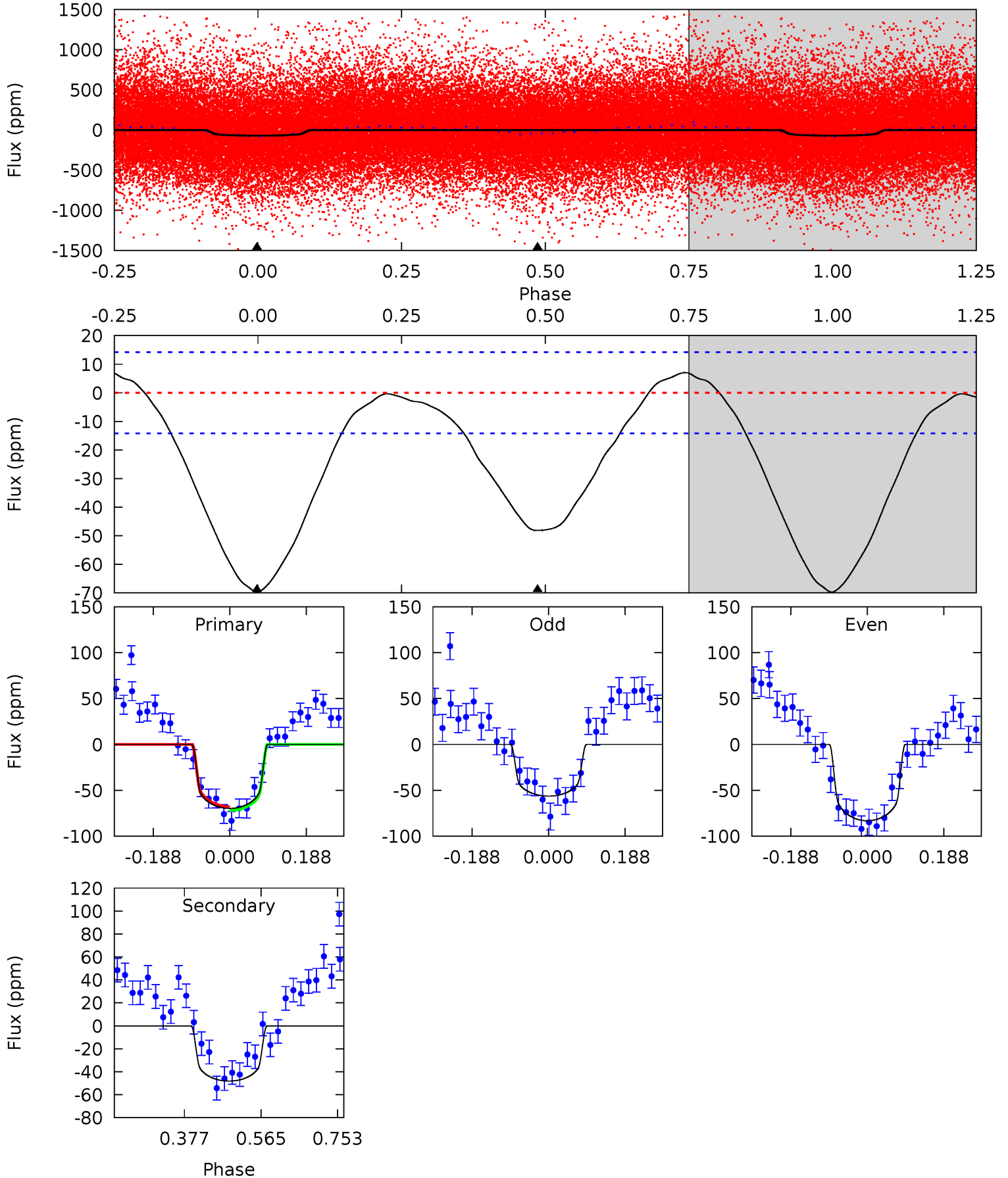
TCE 011029626-01 P= 3.543144 Days $T_0=134.625639$ (BKJD)



DV Model-Shift Uniqueness Test

011029626-01, P = 3.543361 Days, E = 131.035023 Days

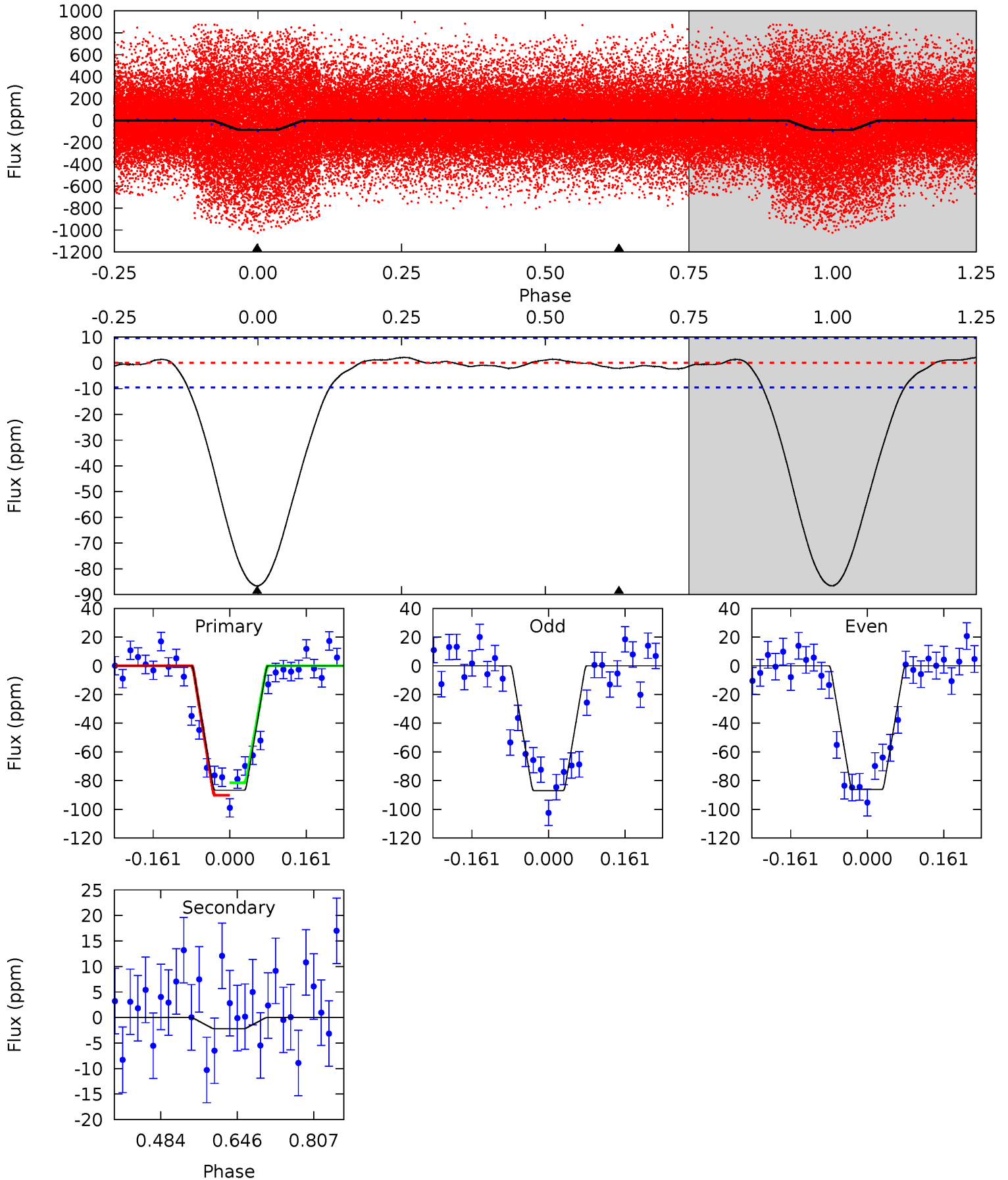
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.8	15.0	0	0	4.43	1.32	1.14	21.8	21.8	15.0	15.0	4.23	0.90	0.09	0.58



Alt Model-Shift Uniqueness Test

011029626-01, P = 3.543144 Days, E = 131.082495 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
40.4	1.02	0	0	4.46	1.40	0.56	40.4	40.4	1.02	1.02	0.16	0.68	0.02	2.03



Stellar Parameters For KIC 011029626

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5330^{+159}_{-159}	$4.473^{+0.120}_{-0.132}$	$-0.220^{+0.300}_{-0.300}$	$0.841^{+0.138}_{-0.113}$	$0.766^{+0.113}_{-0.052}$	$1.817^{+0.826}_{-0.620}$
	+3%/-3%	+3%/-3%	+136%/-136%	+16%/-13%	+15%/-7%	+45%/-34%
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 011029626-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-48 ± 3	$0.88^{+0.12}_{-0.10}$	1479^{+81}_{-71}	4669^{+212}_{-211}	60^{+18}_{-13}
Alt.	-2 ± 2	$0.88^{+0.11}_{-0.11}$	1477^{+79}_{-77}	2802^{+290}_{-4473}	$2.846^{+2.894}_{-2.568}$

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 $A_{obs} \gg 1.0$

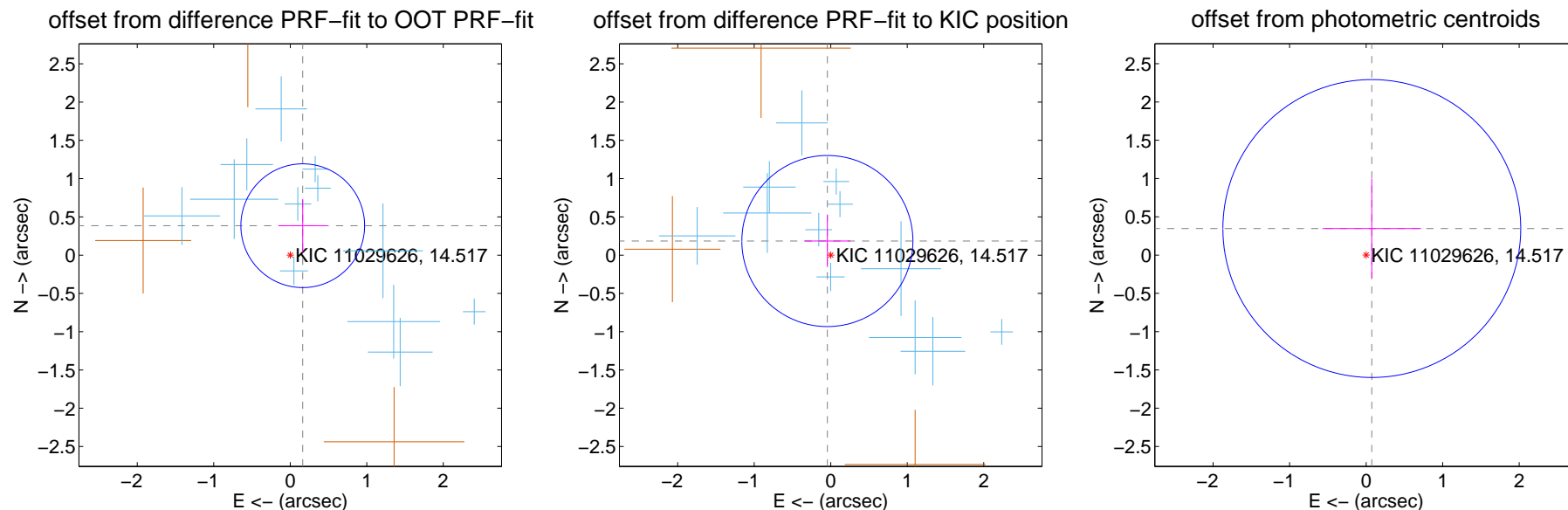
DV Centroid Data

Supplemental centroid analysis for 011029626-01. Kepler magnitude: 14.52. Transit SNR 9.08

There are 12 quarters with good PRF difference image offsets

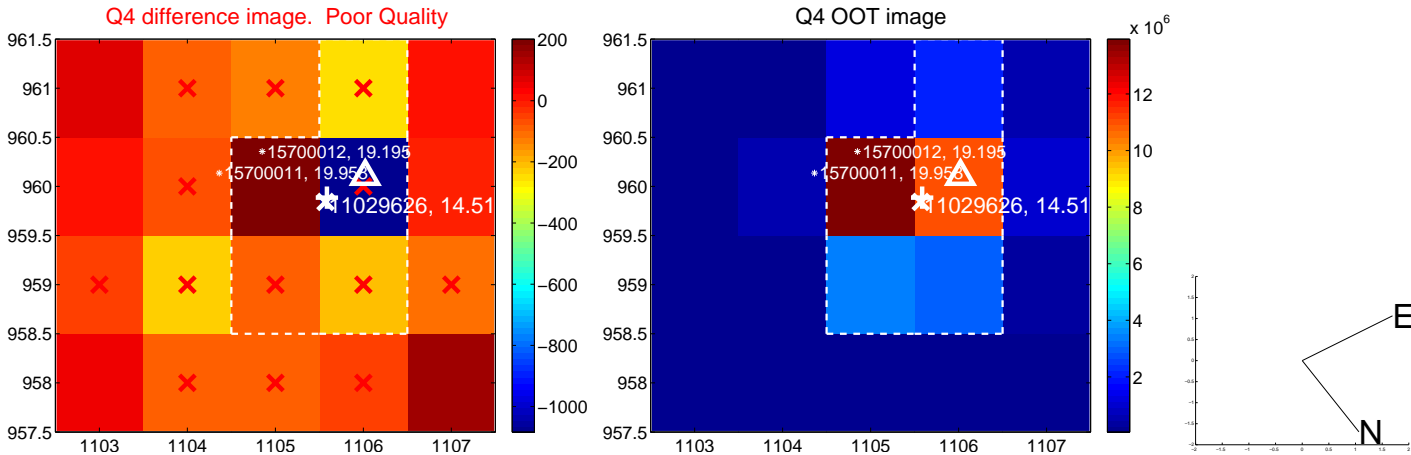
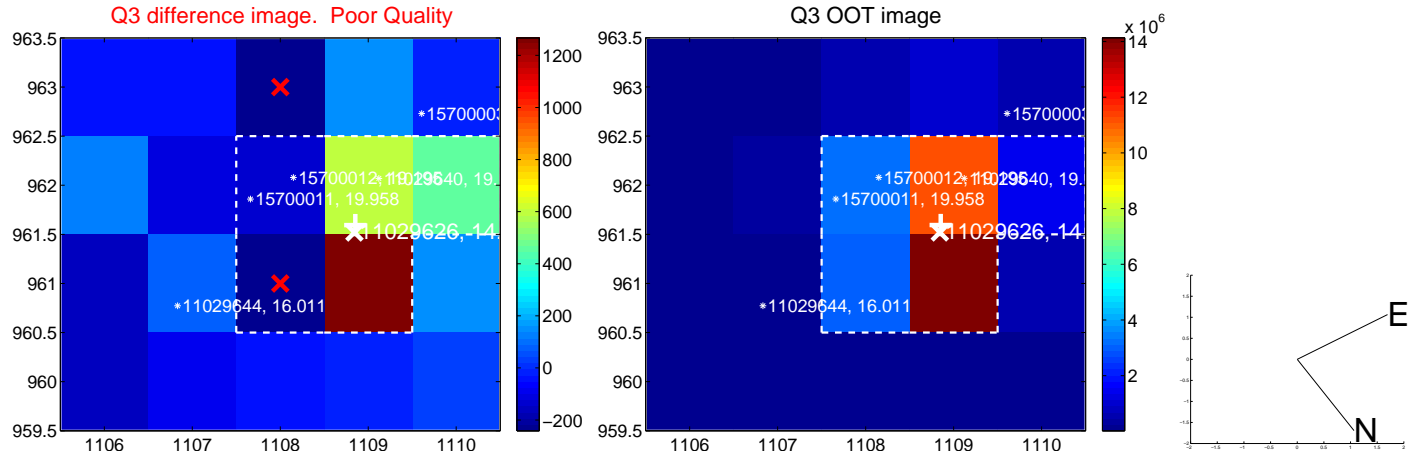
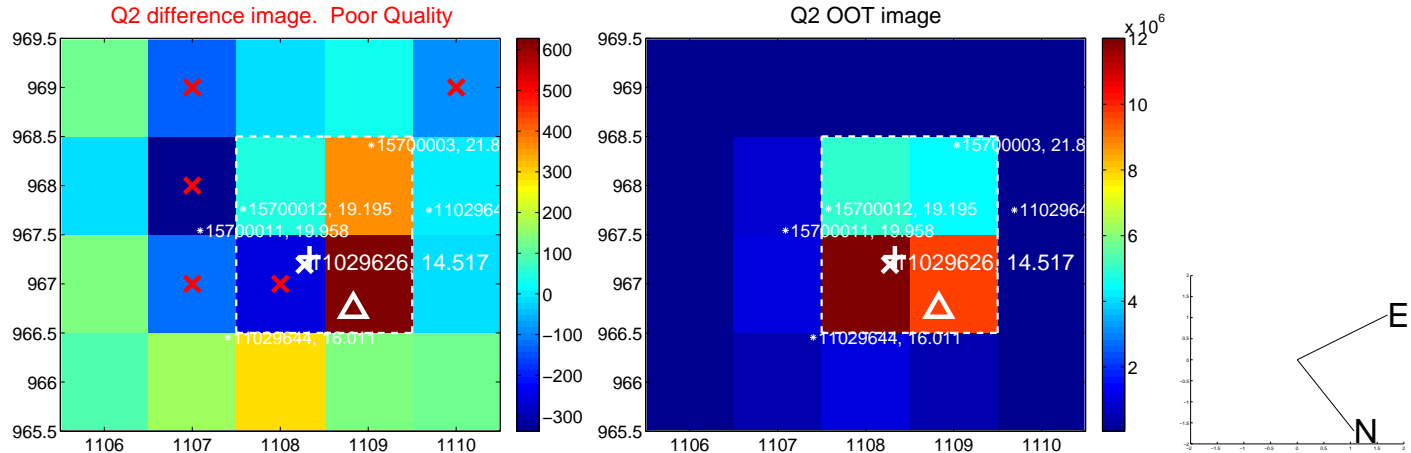
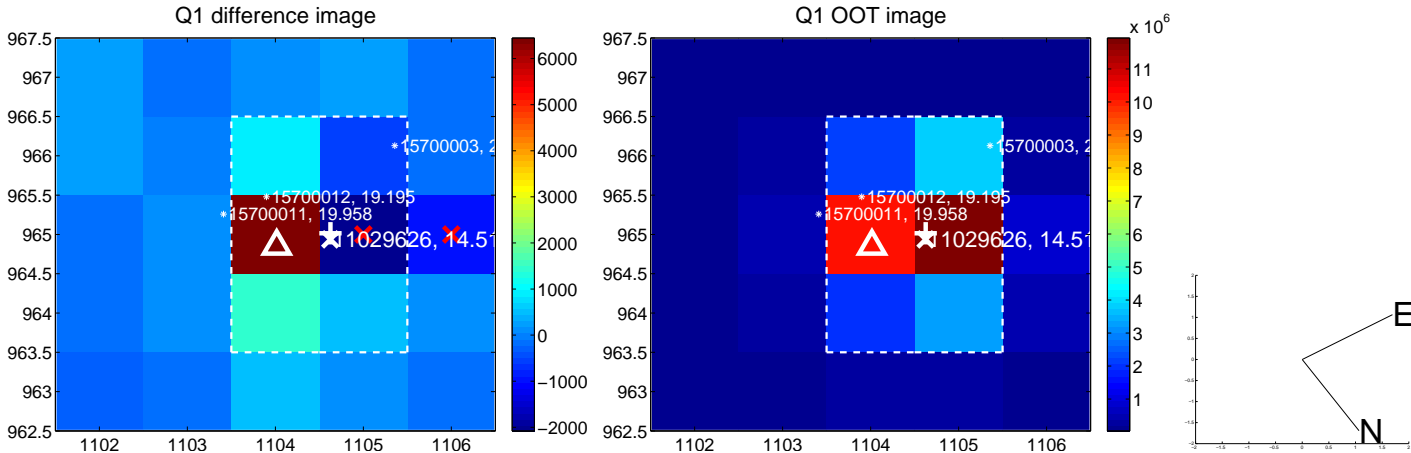
The direct PRF centroid is offset from the target star catalog position by about 0.38 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.418 ± 0.269	1.55	-0.163 ± 0.319	0.385 ± 0.349
PRF-fit source offset from KIC position	0.190 ± 0.373	0.51	0.044 ± 0.299	0.185 ± 0.340
photometric centroid source offset	0.35 ± 0.65	0.55	-0.07 ± 0.64	0.35 ± 0.65

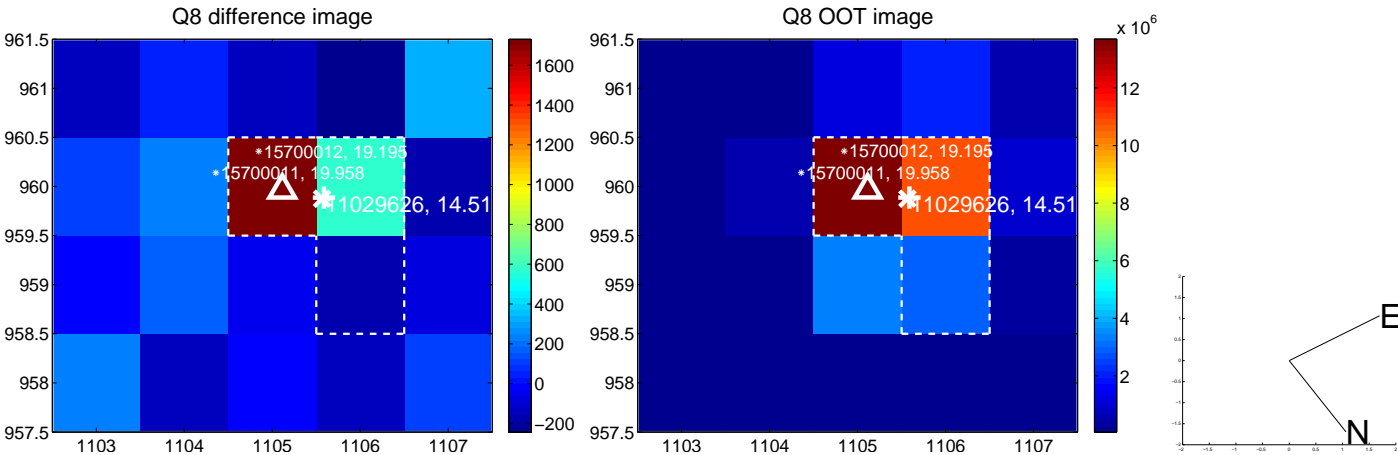
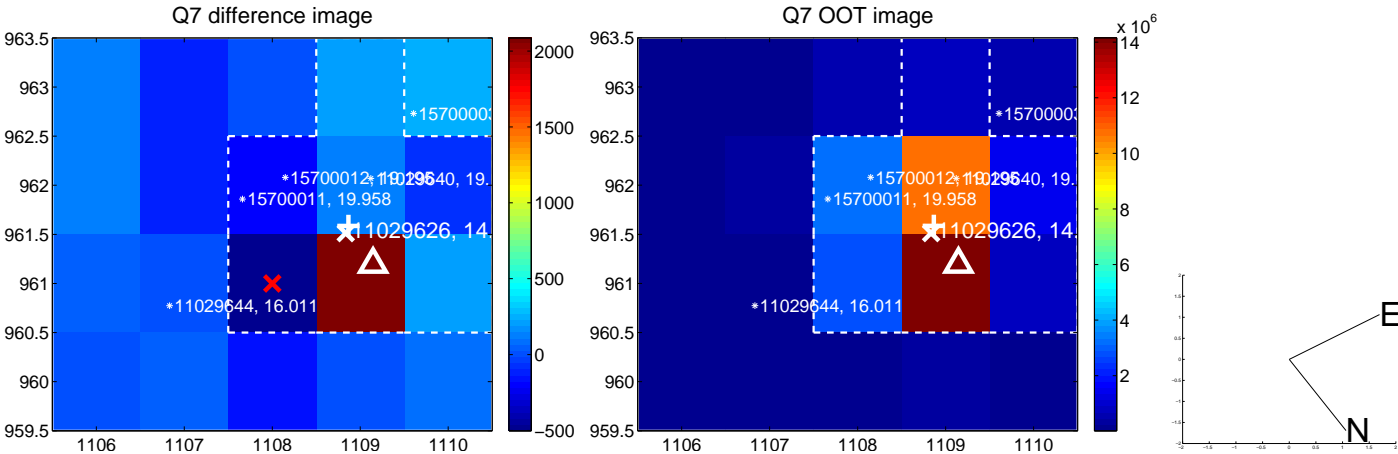
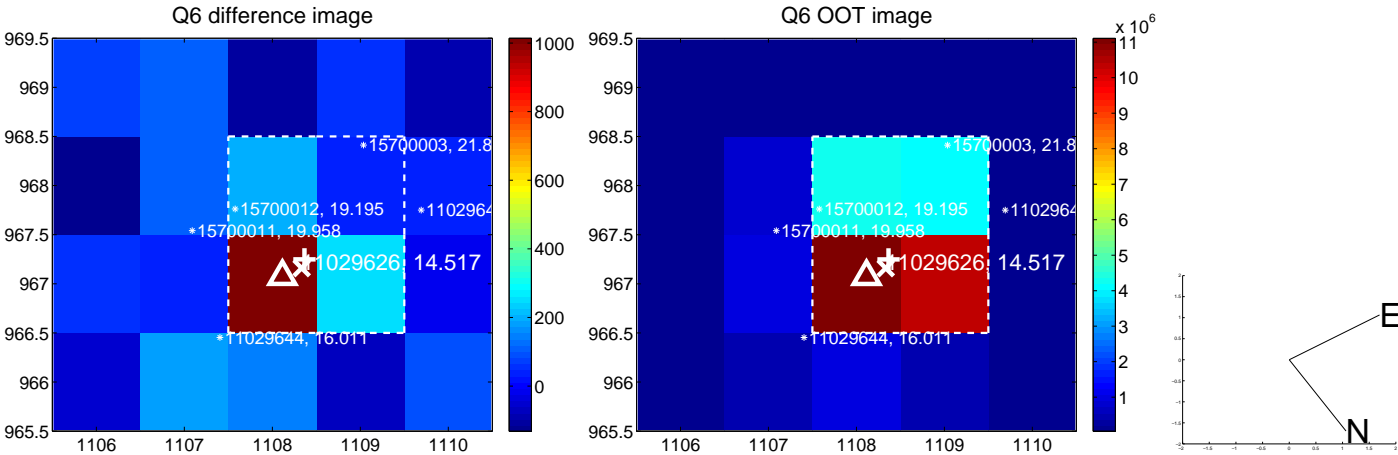
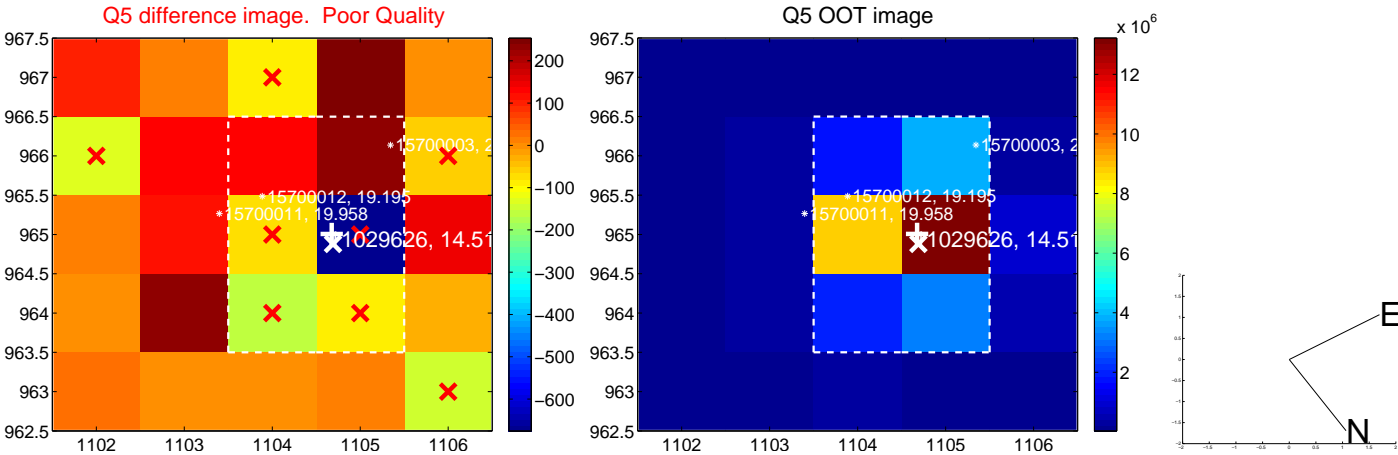


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

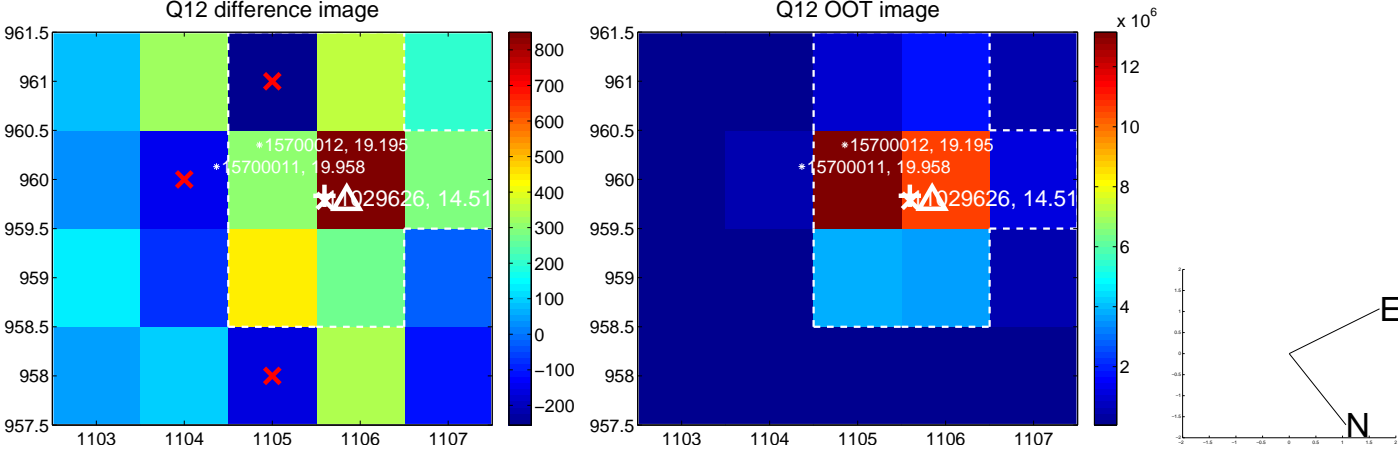
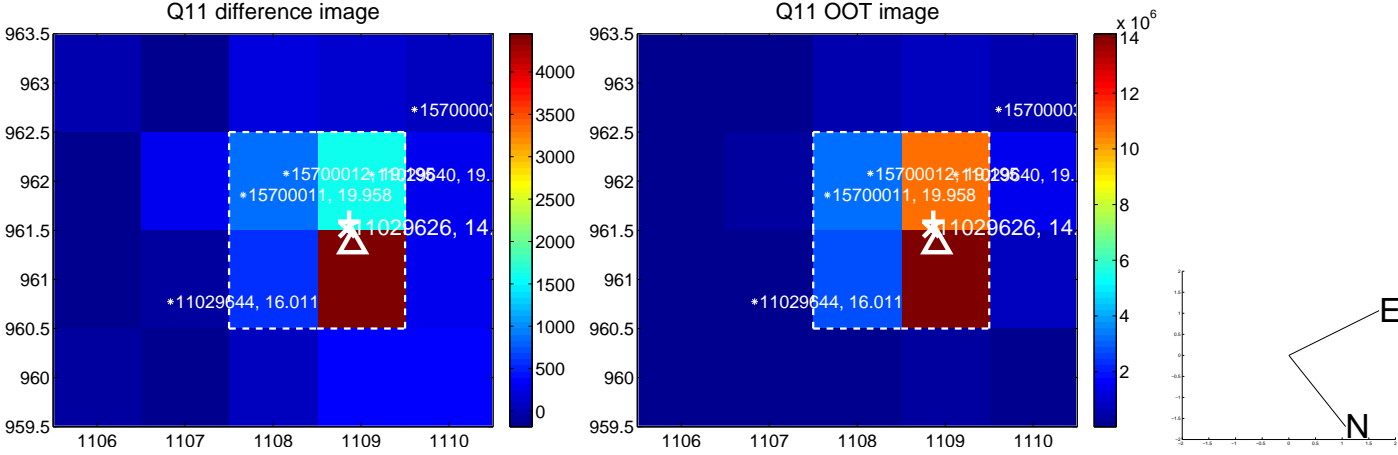
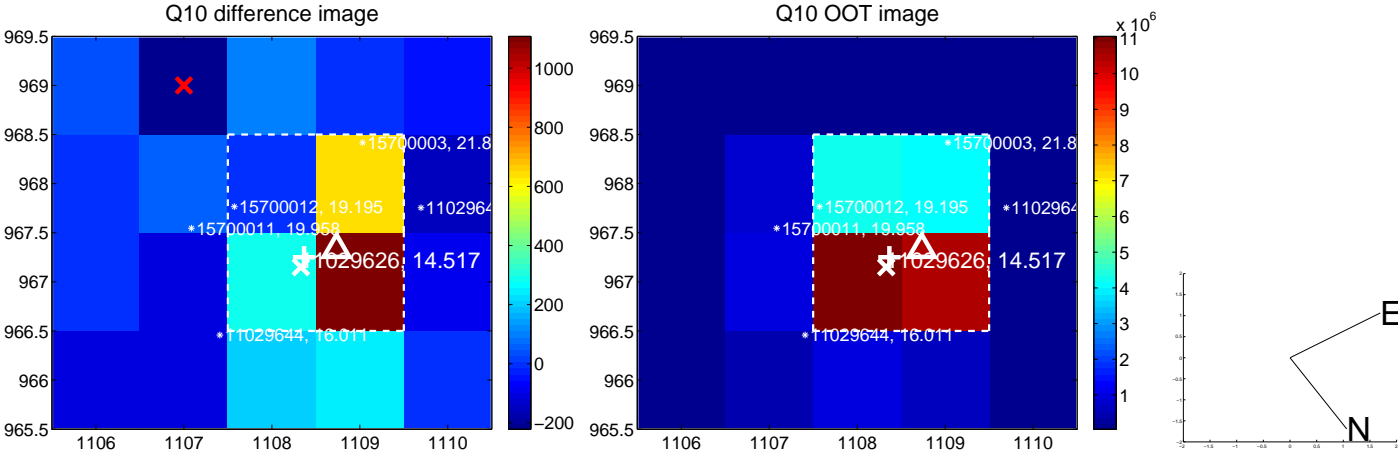
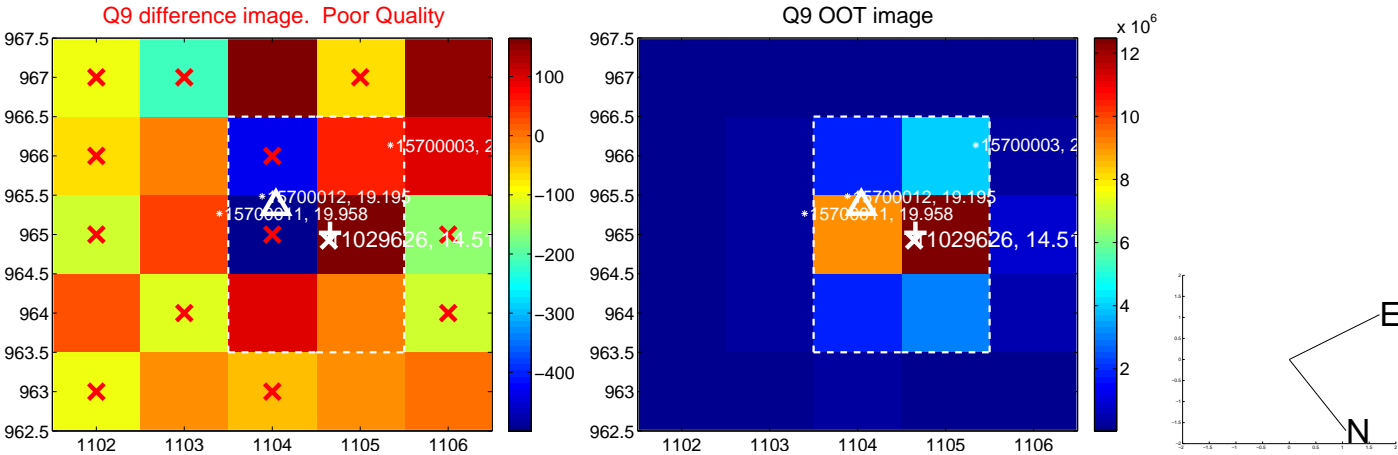
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



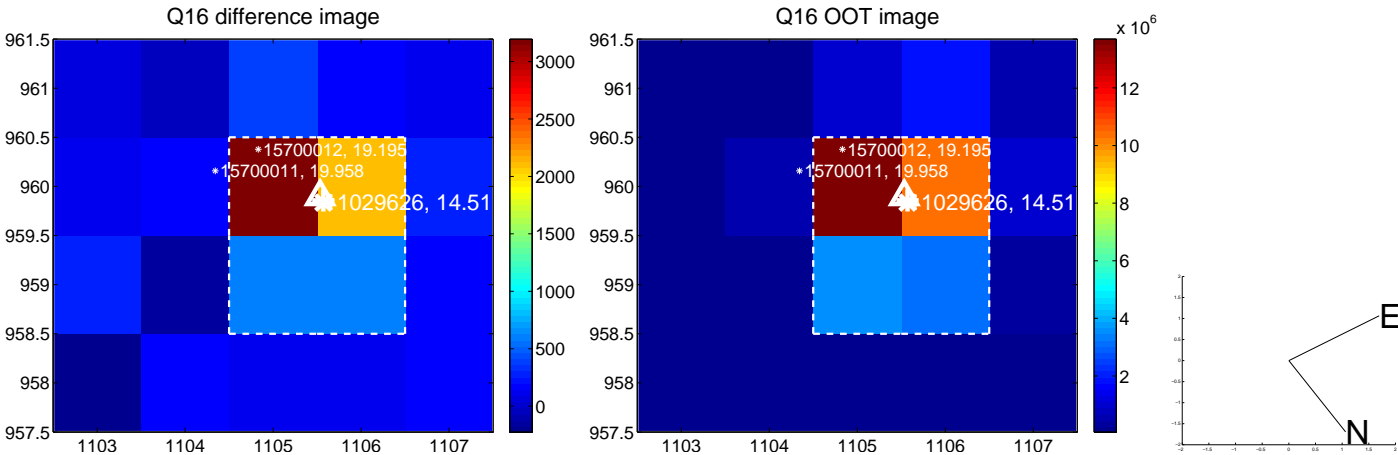
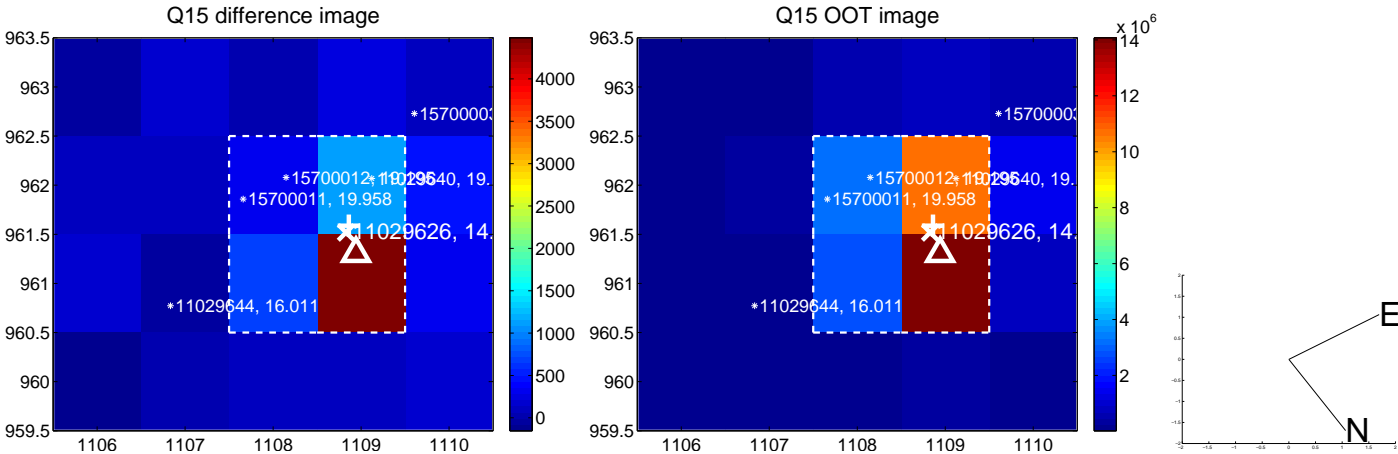
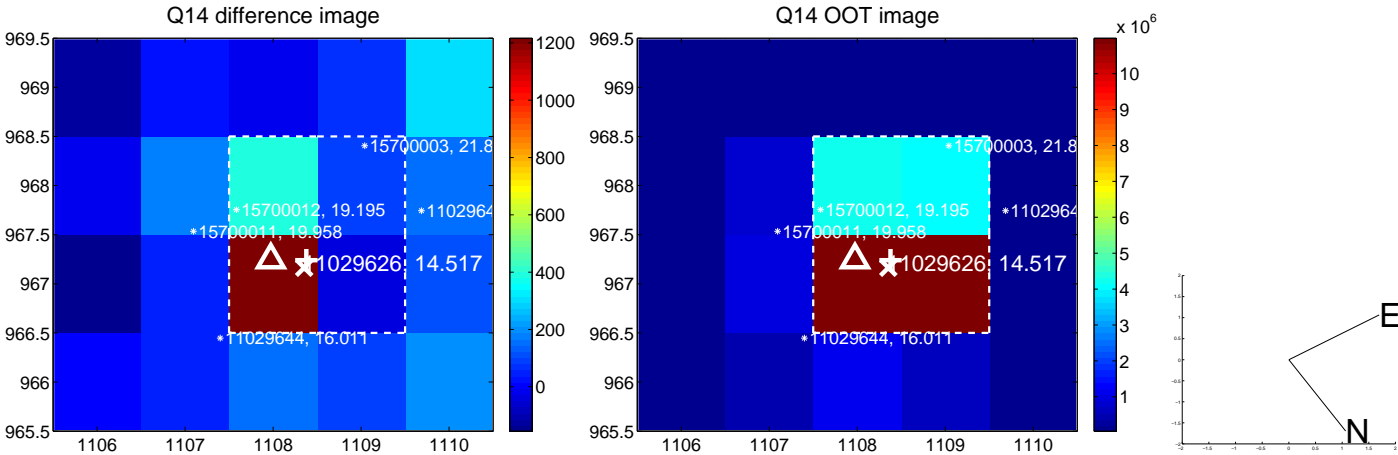
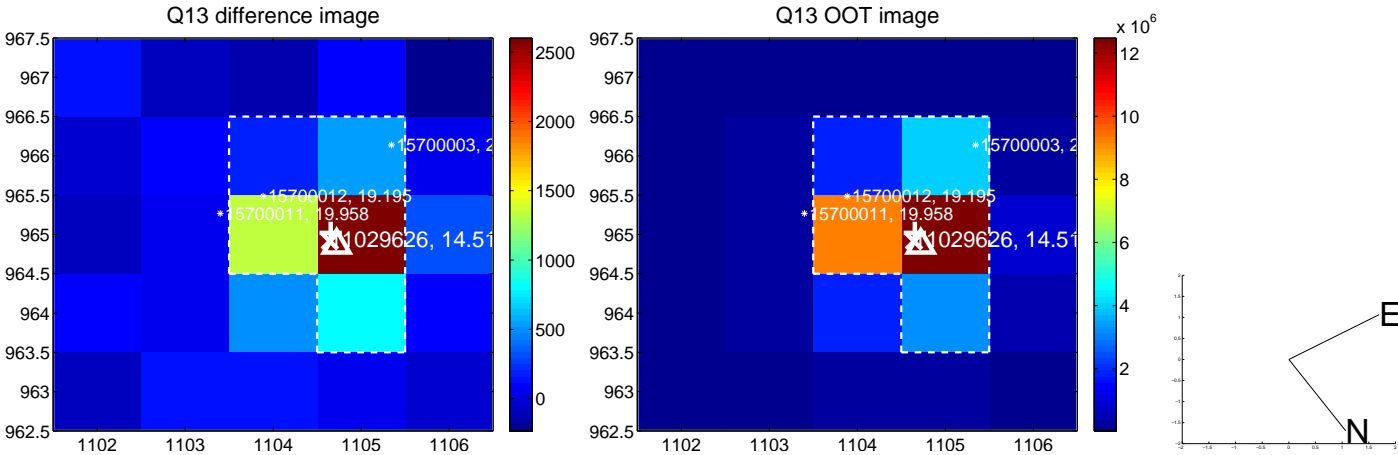
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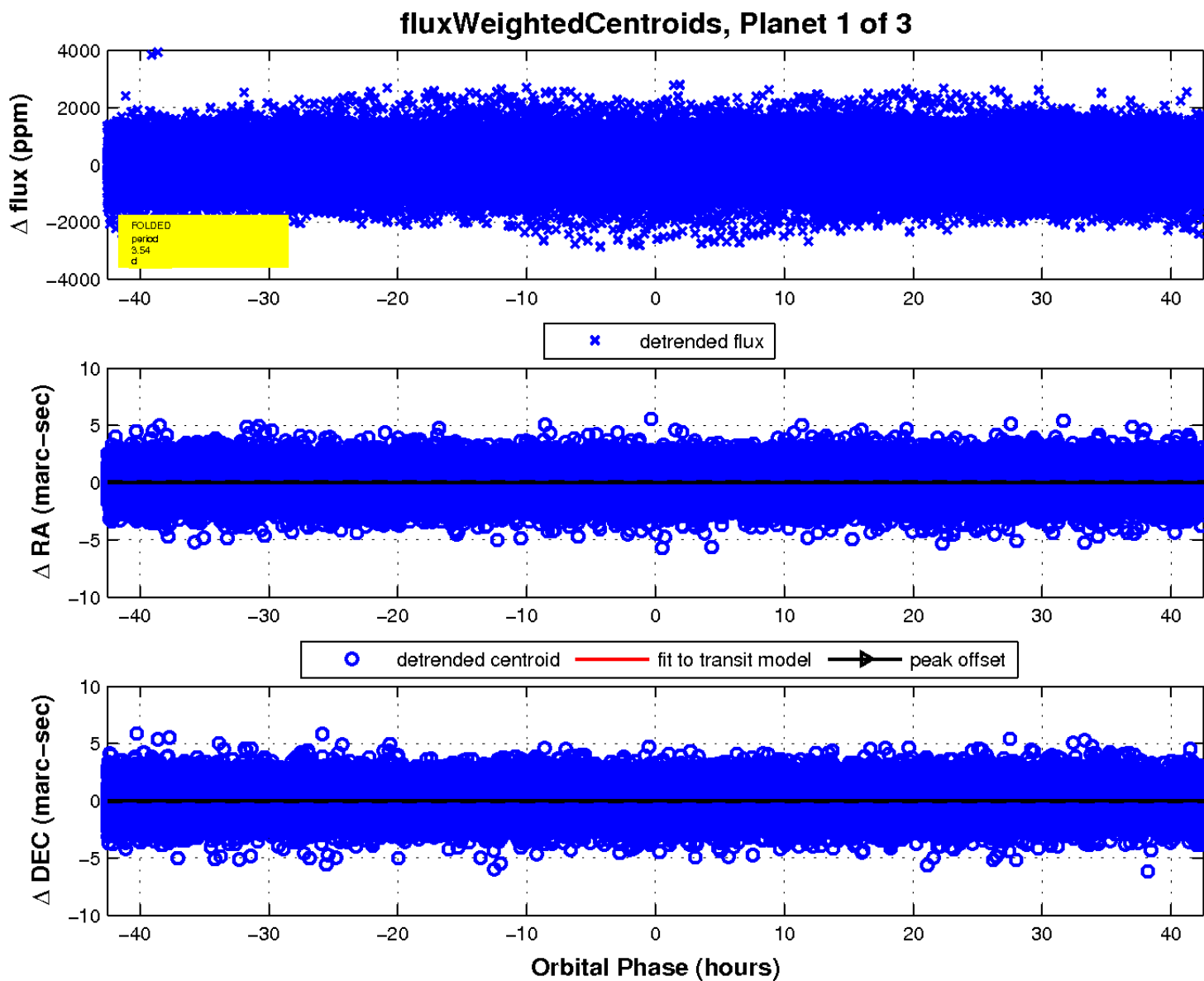
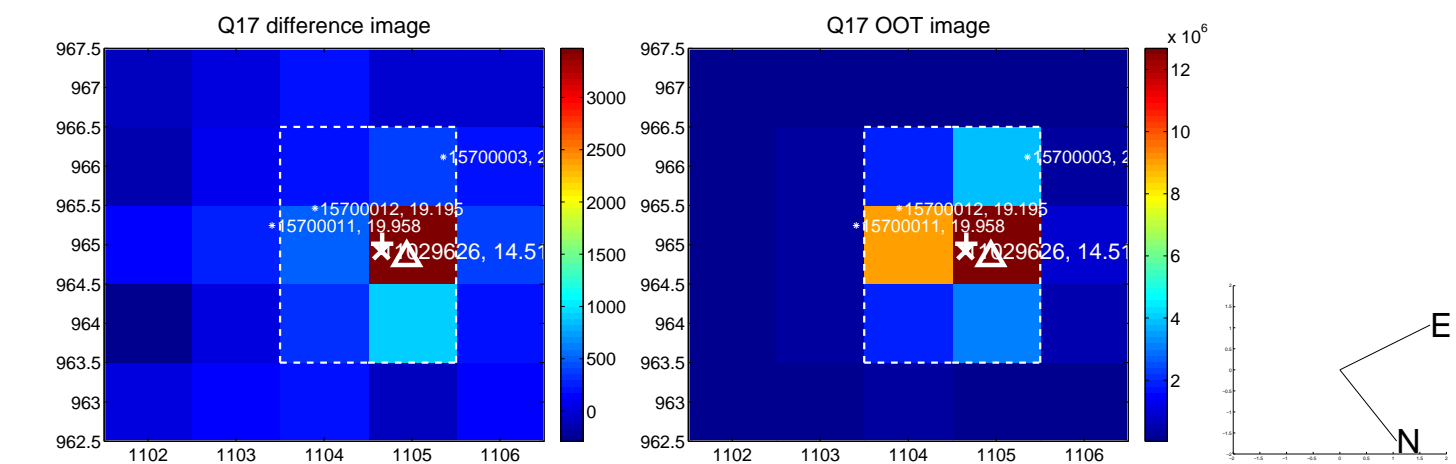
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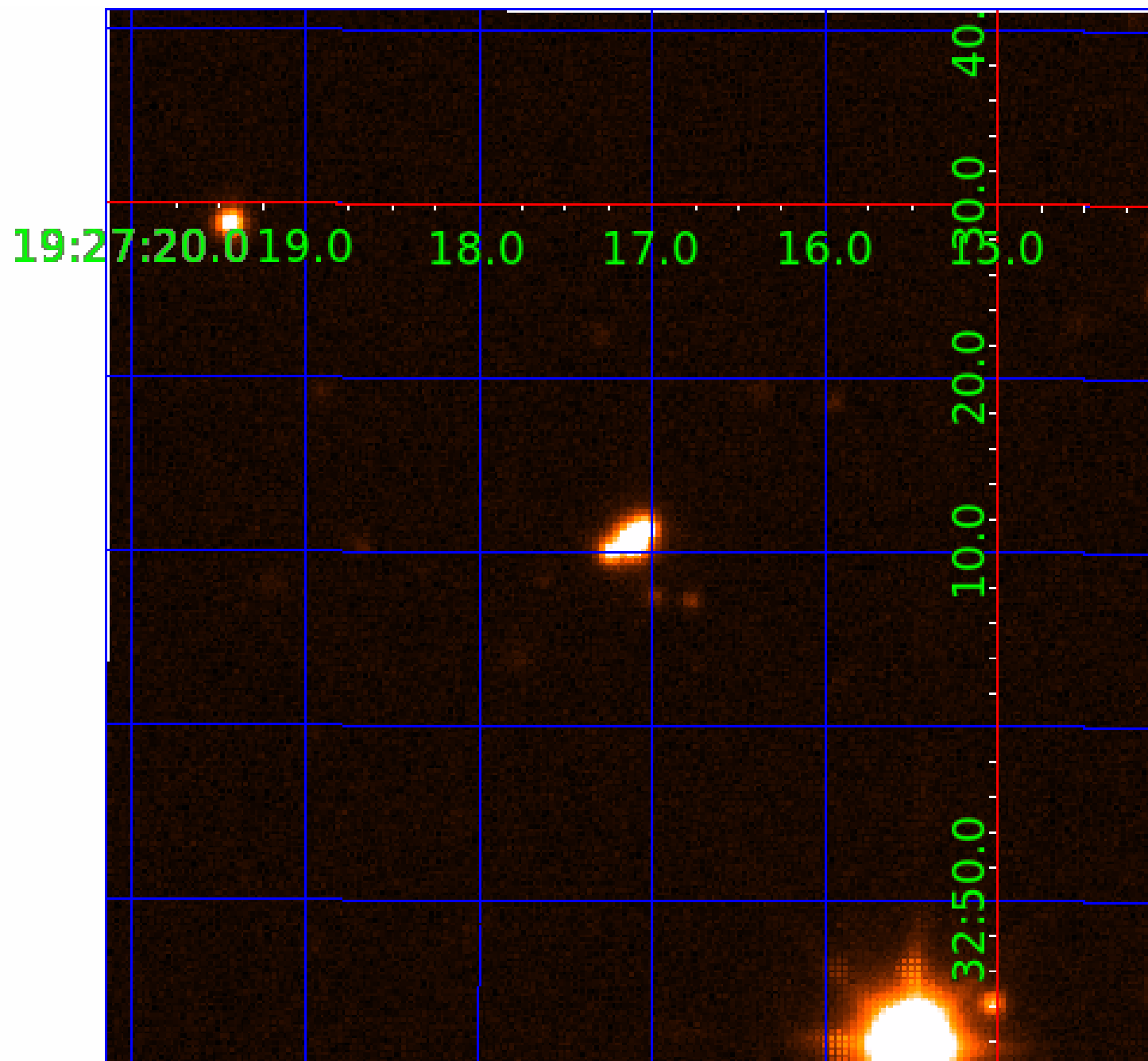


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011029626

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})
011029626-01	OBS	No	3.543361	134.578383	64.3	15.578	8.0	9.1	0.84	5330	0.87	294.97
011029626-02	OBS	No	329.678898	160.239718	300.6	8.899	9.2	4.2	0.84	5330	1.60	0.70
011029626-03	OBS	No	3.543284	132.837280	70.0	18.465	9.0	12.4	0.84	5330	0.70	294.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011029626-01	OBS	FP	0.00	1	0	0	0	LPP_DV
011029626-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011029626-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD

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

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

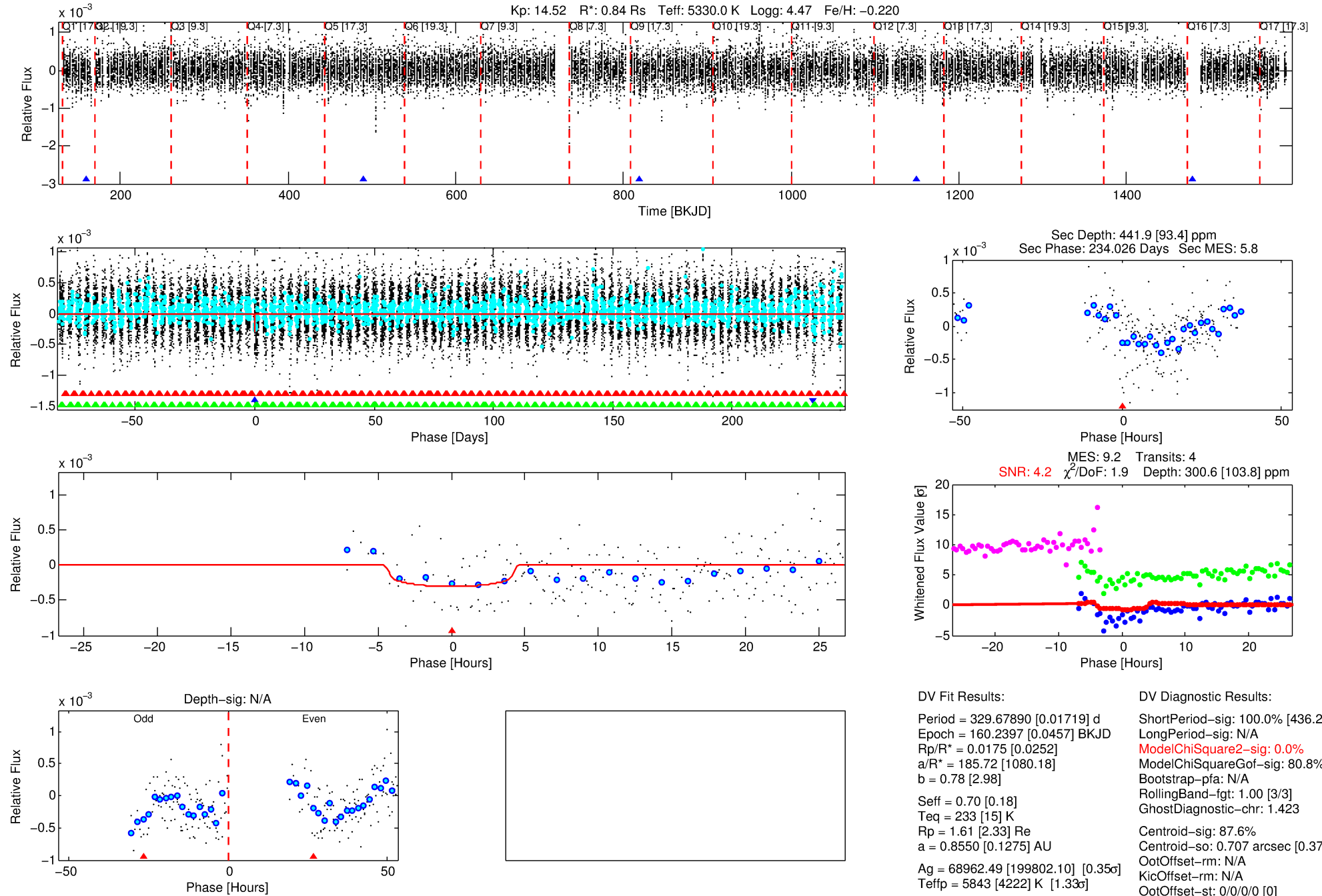
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011029626-02

No Significant Match Found

DV One-Page Summary

KIC: 11029626 Candidate: 2 of 3 Period: 329.679 d



DV Fit Results:

Period = 329.67890 [0.01719] d
Epoch = 160.2397 [0.0457] BKJD
Rp/R* = 0.0175 [0.0252]
a/R* = 185.72 [1080.18]
b = 0.78 [2.98]
Seff = 0.70 [0.18]
Teff = 233 [15] K
Rp = 1.61 [2.33] Re
a = 0.8550 [0.1275] AU
Ag = 68962.49 [199802.10] [0.35] σ
Teffp = 5843 [4222] K [1.33] σ

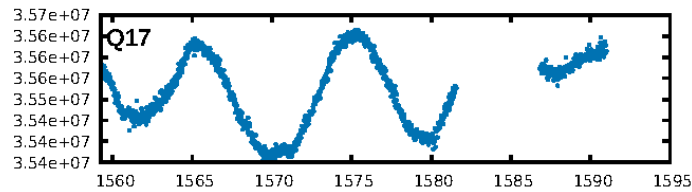
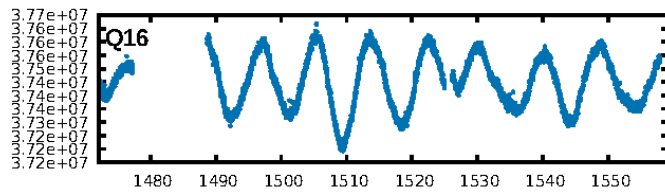
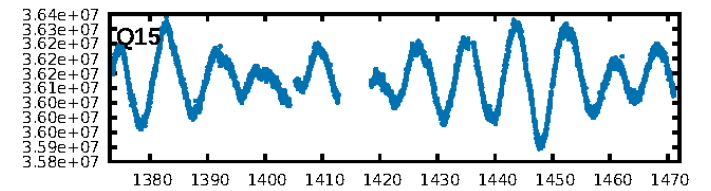
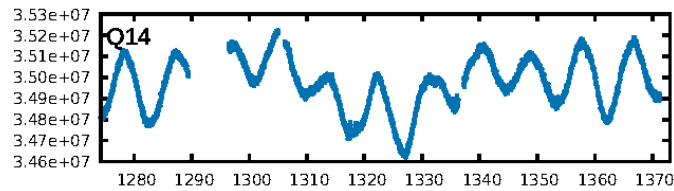
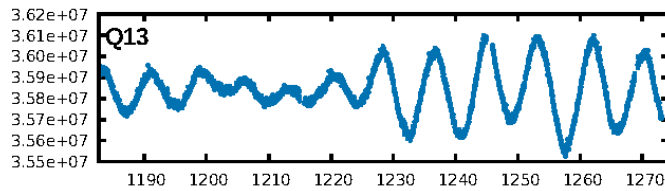
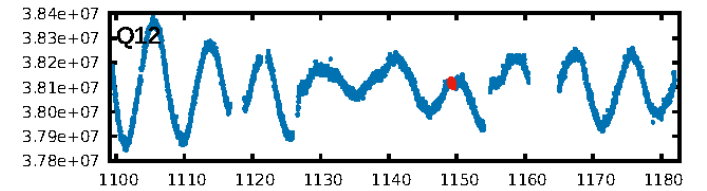
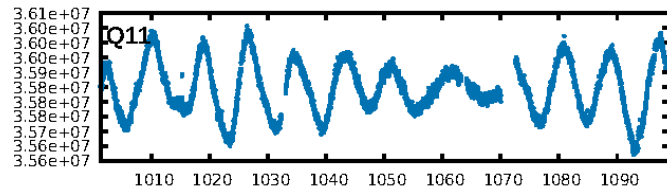
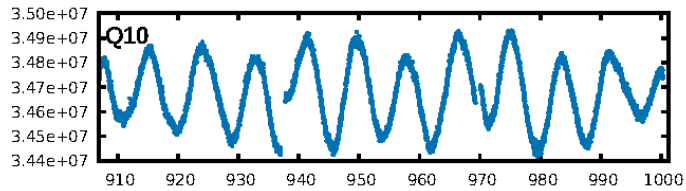
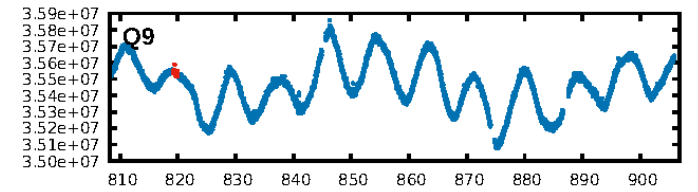
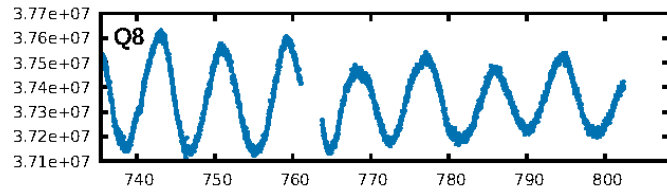
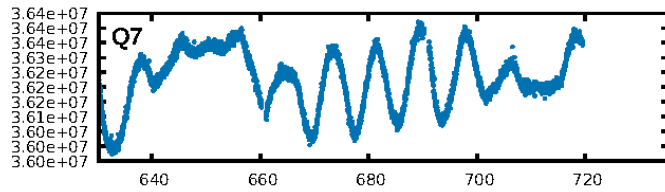
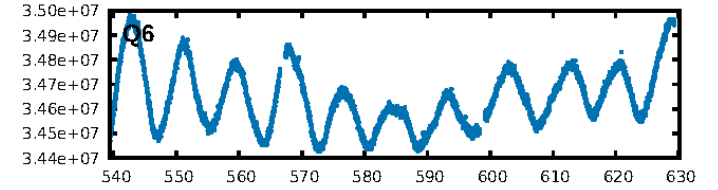
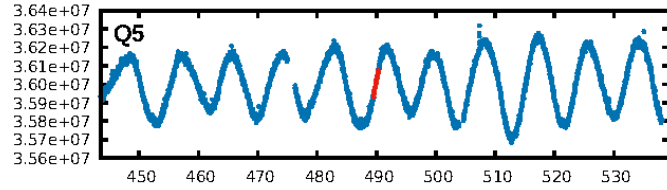
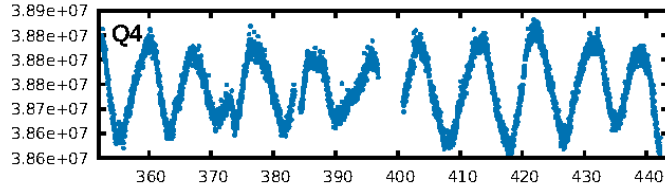
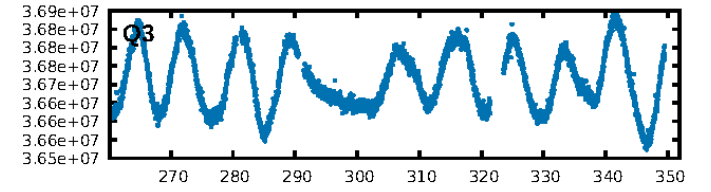
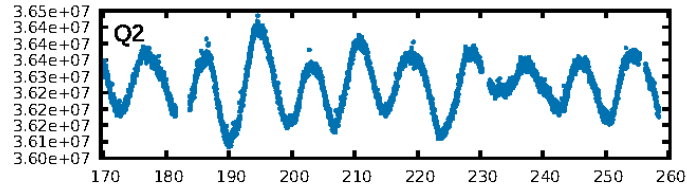
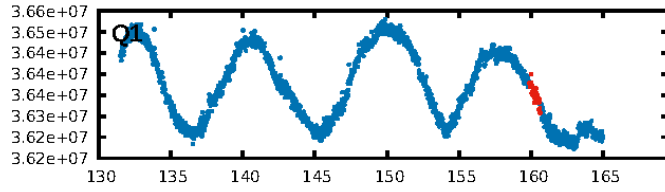
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [436.28 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 80.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.423
Centroid-sig: 87.6%
Centroid-so: 0.707 arcsec [0.37 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0/0 [0]
KicOffset-st: 0/0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: 0.00 [0/4]

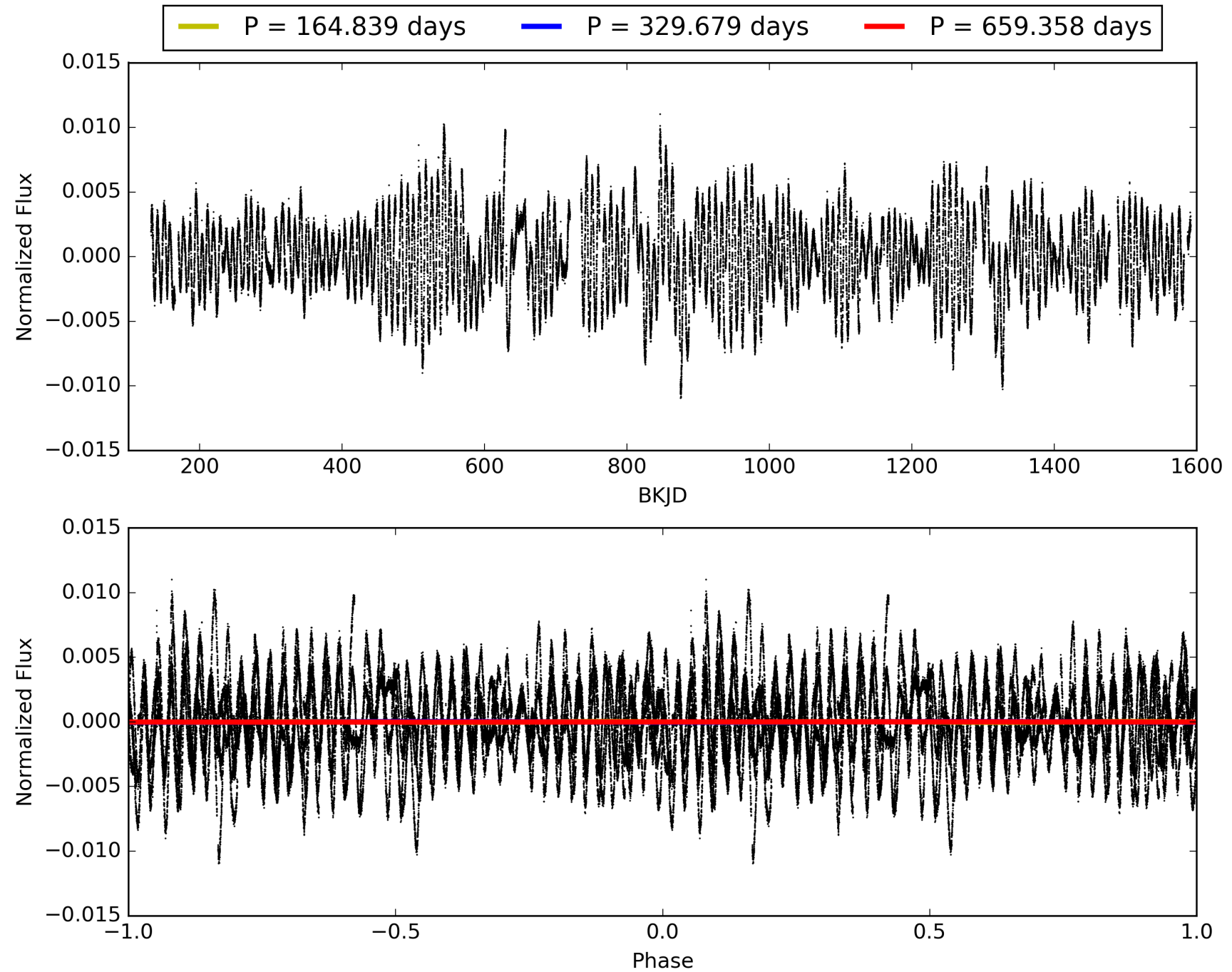
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:51:13 Z

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

TCE 011029626-02, PDC Light Curves

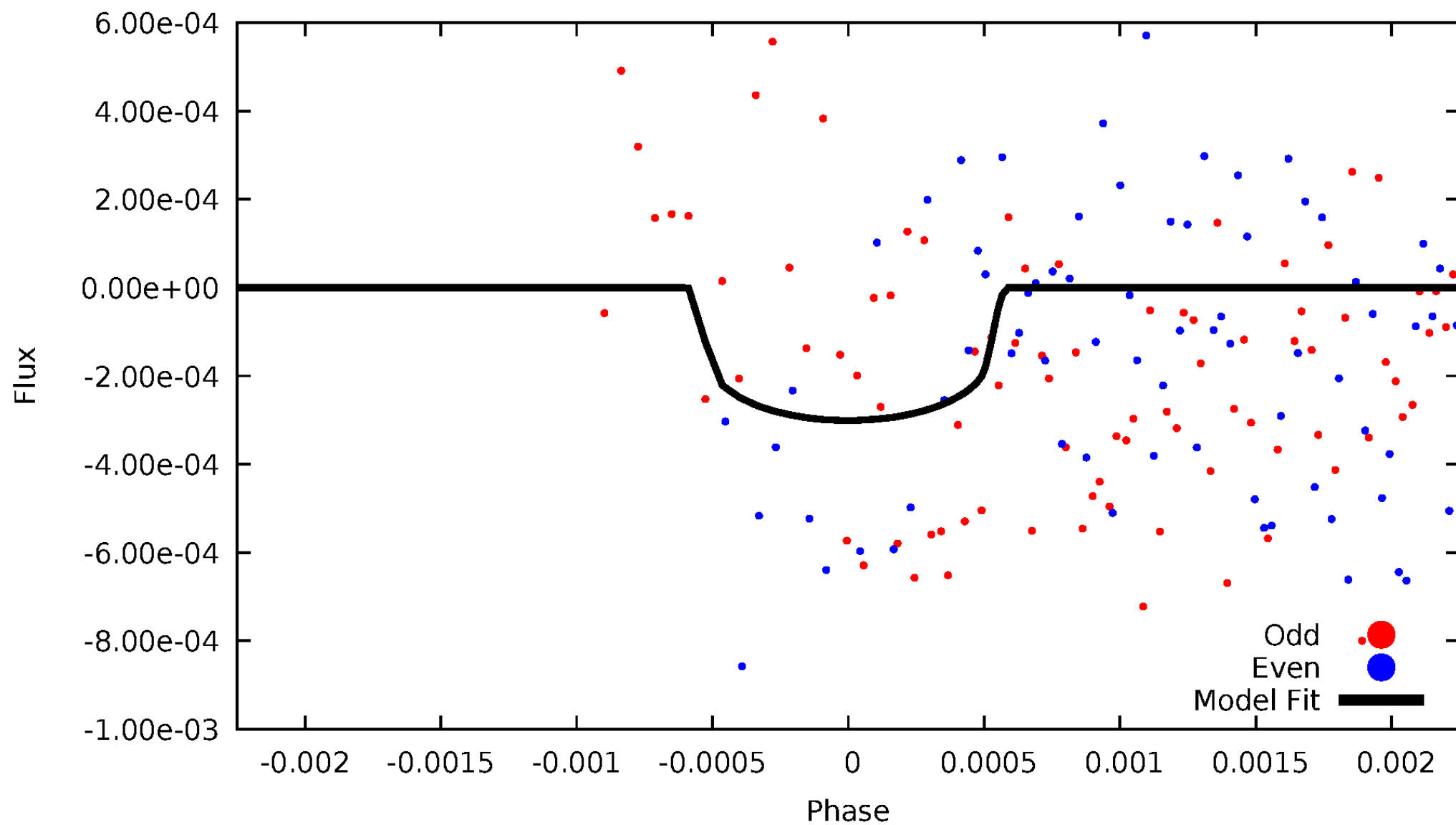


TCE 011029626-02



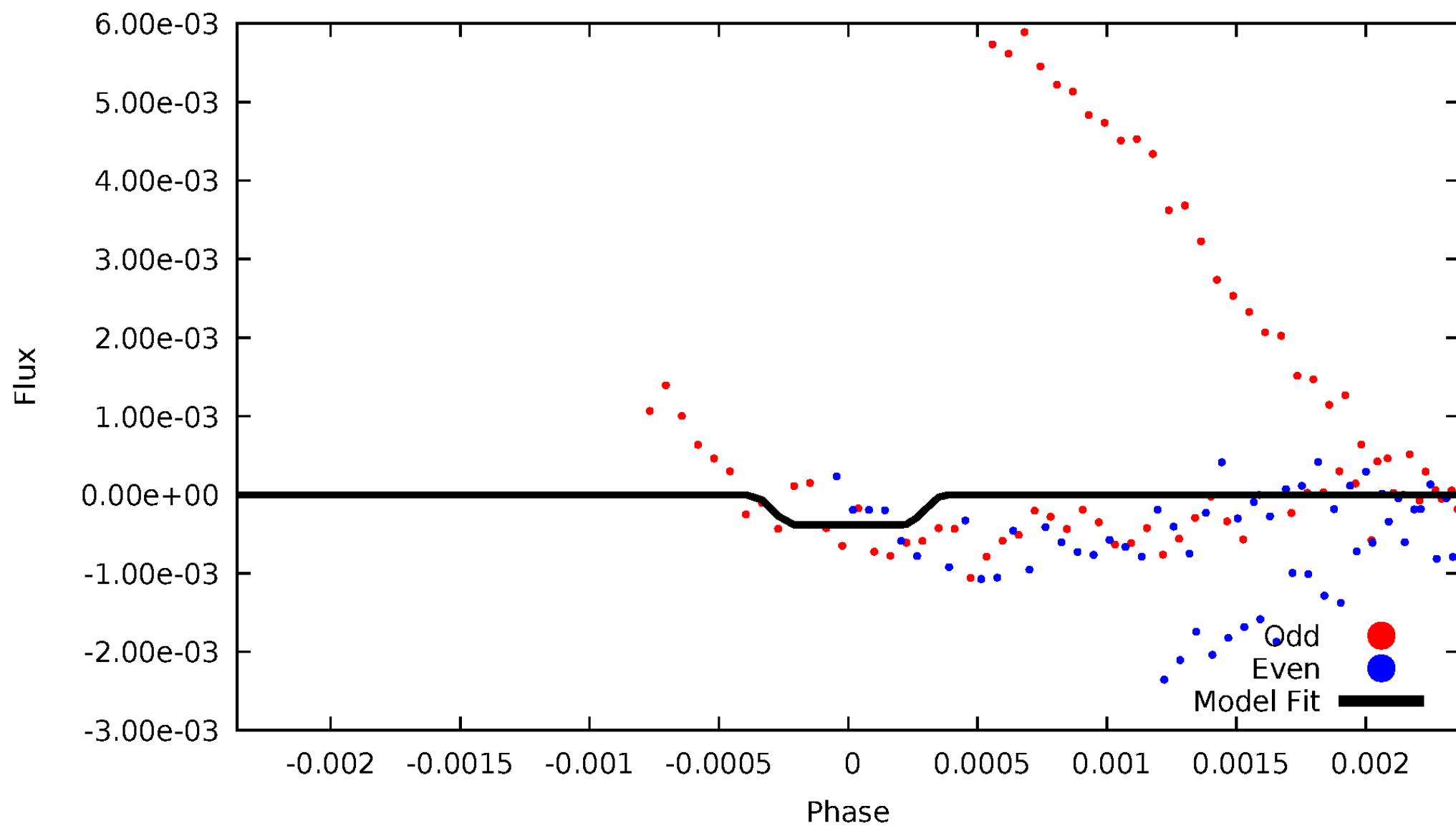
DV Odd/Even

TCE 011029626-02



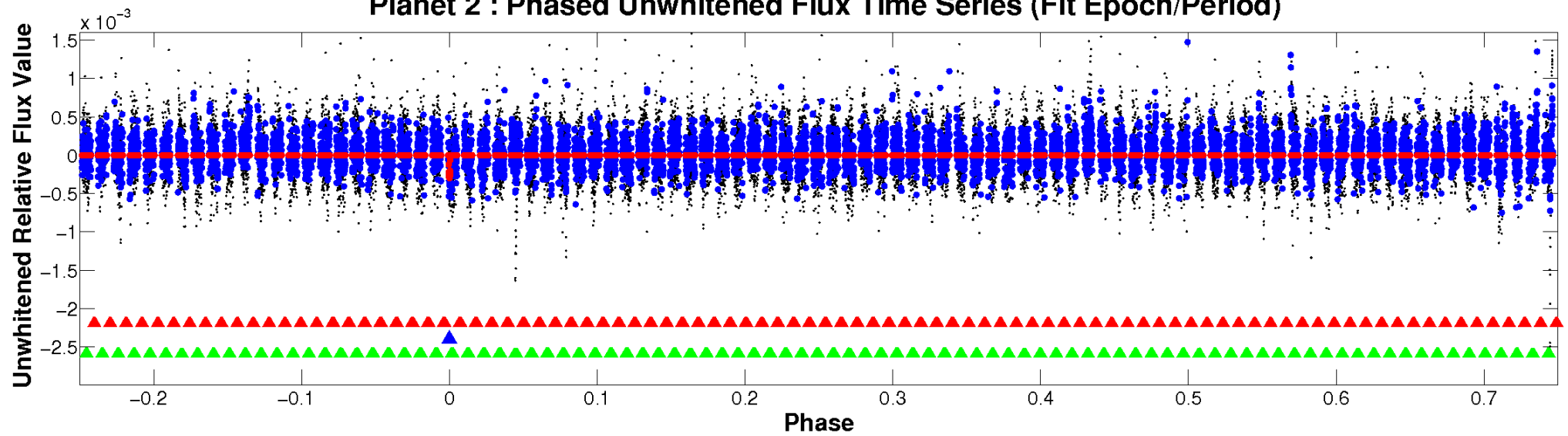
ALT Odd/Even

TCE 011029626-02

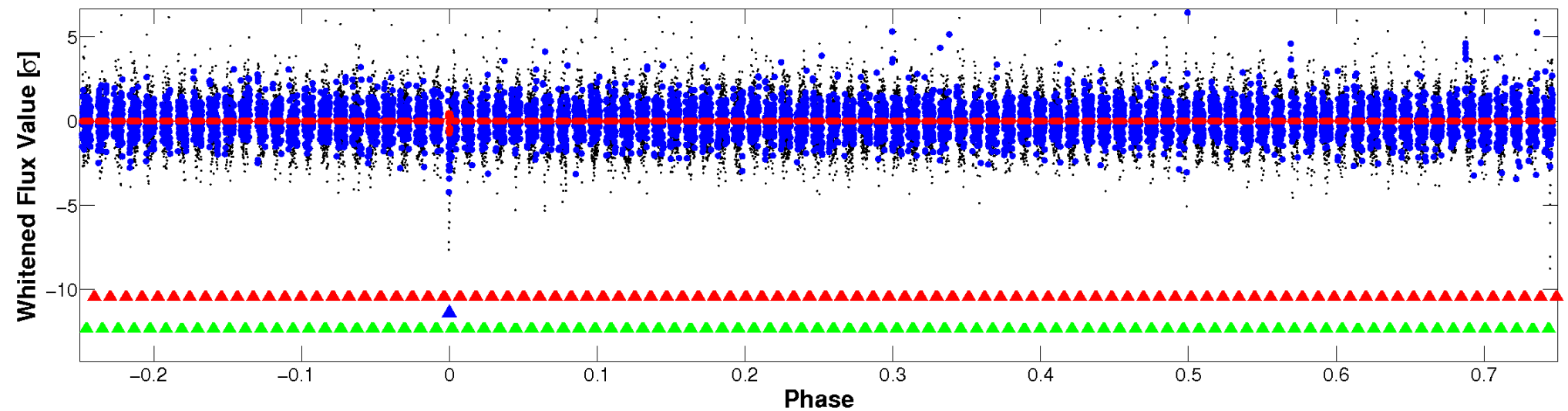


Non-Whitened Vs. Whitened Light Curve

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

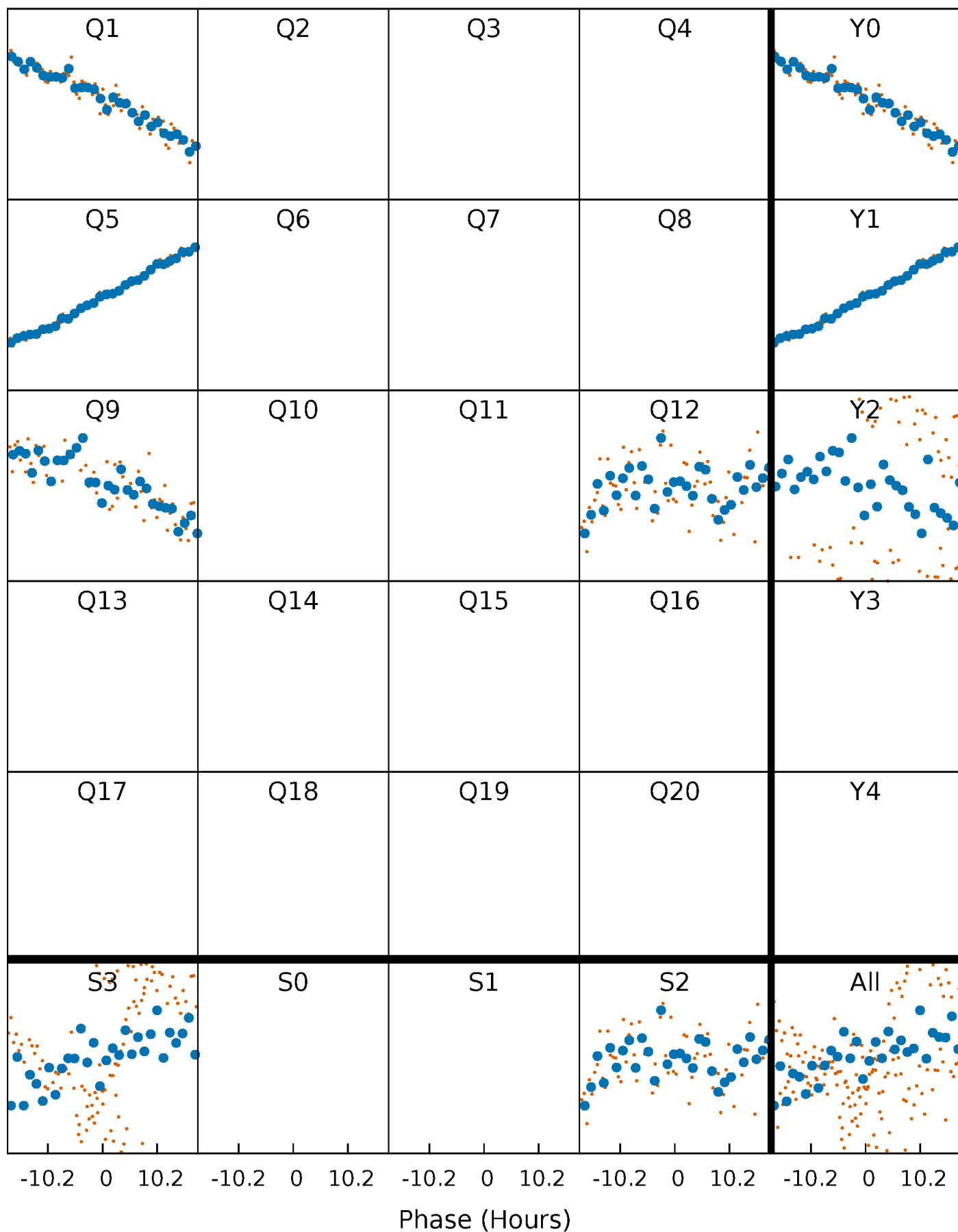


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 011029626-02 $P=329.678898$ Days $T_0=160.239718$ (BKJD)



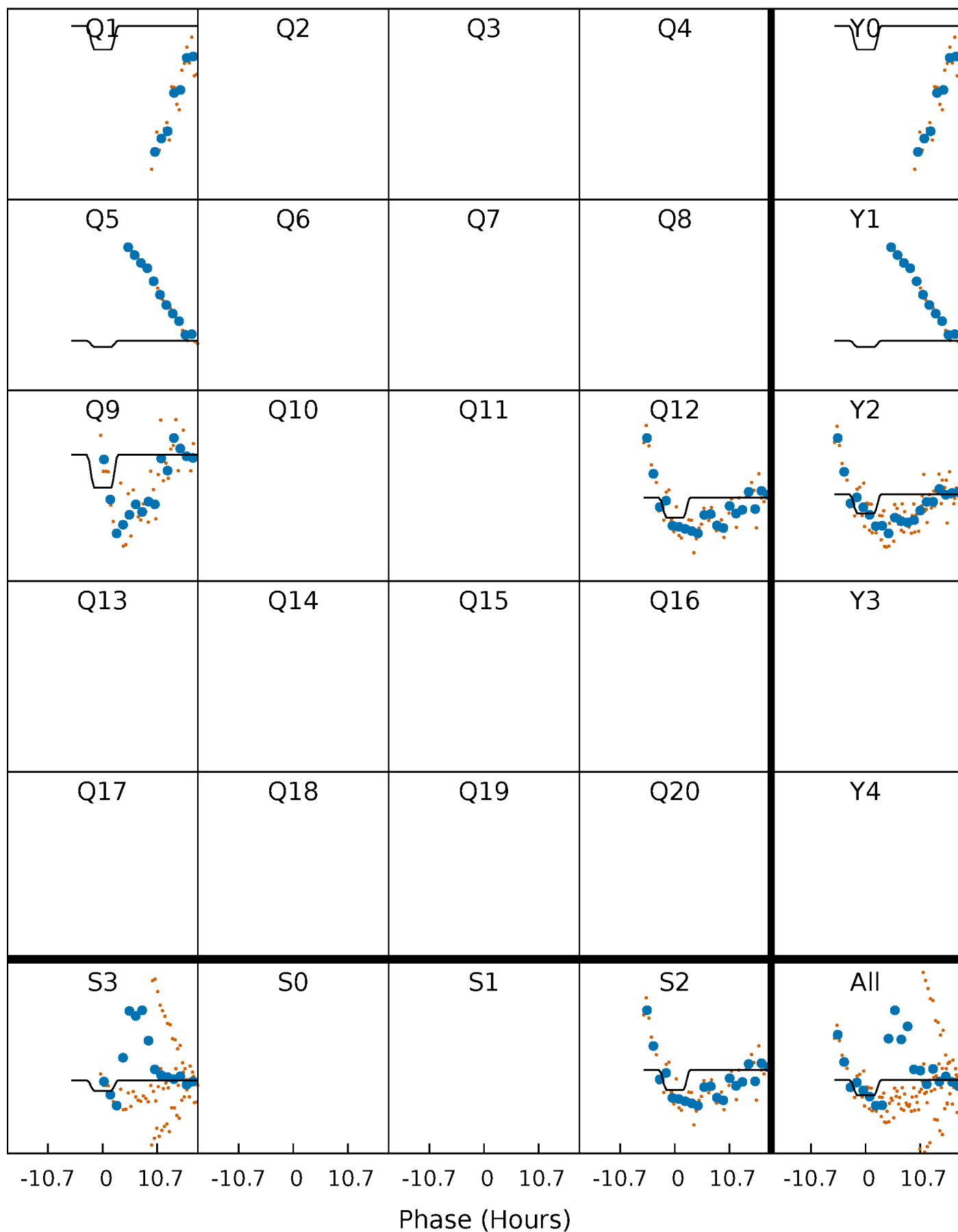
DV Quarter-Phased Transit Curves

TCE 011029626-02 $P=329.678898$ Days $T_0=160.239718$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

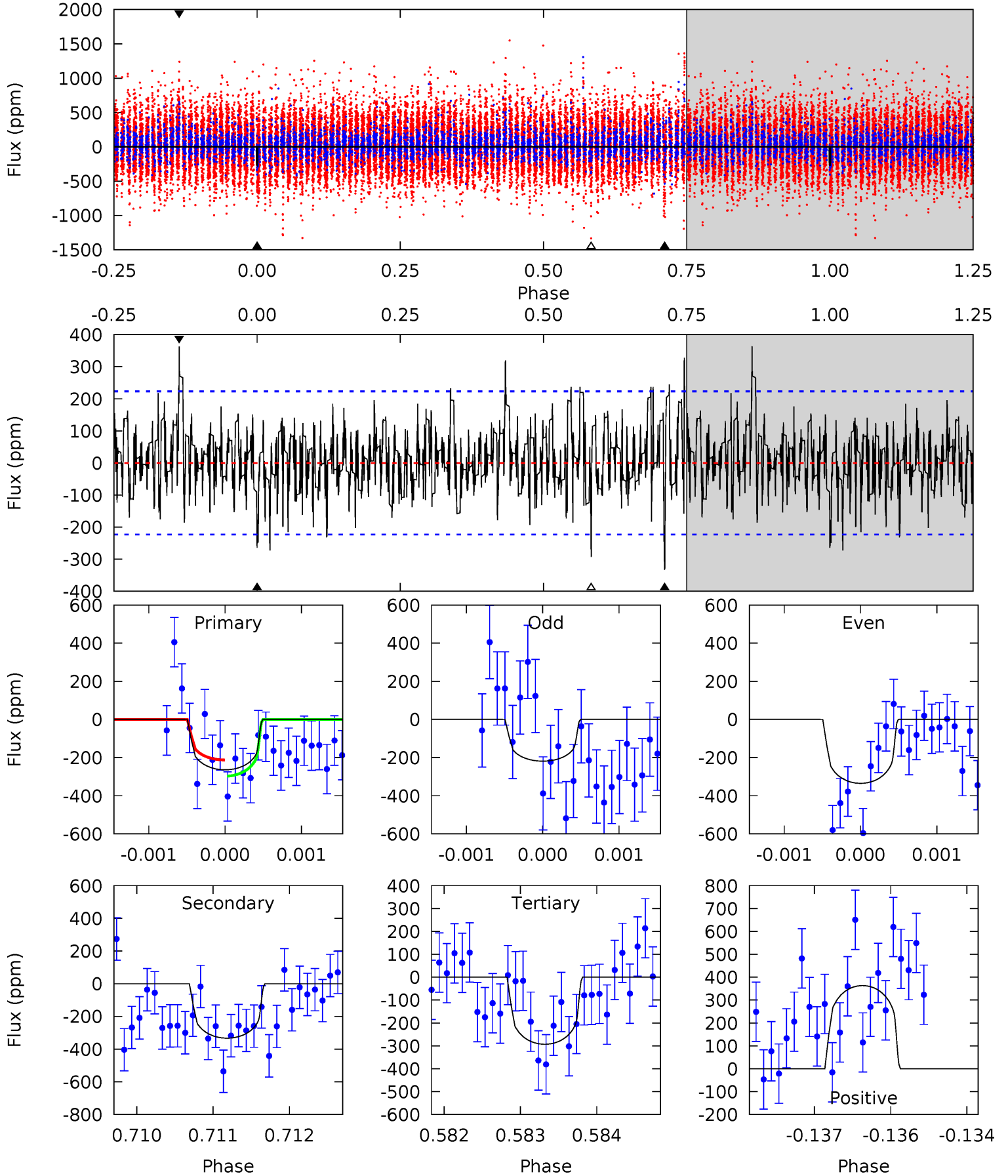
TCE 011029626-02 P=329.749980 Days $T_0=159.983322$ (BKJD)



DV Model-Shift Uniqueness Test

011029626-02, P = 329.678898 Days, E = 160.239718 Days

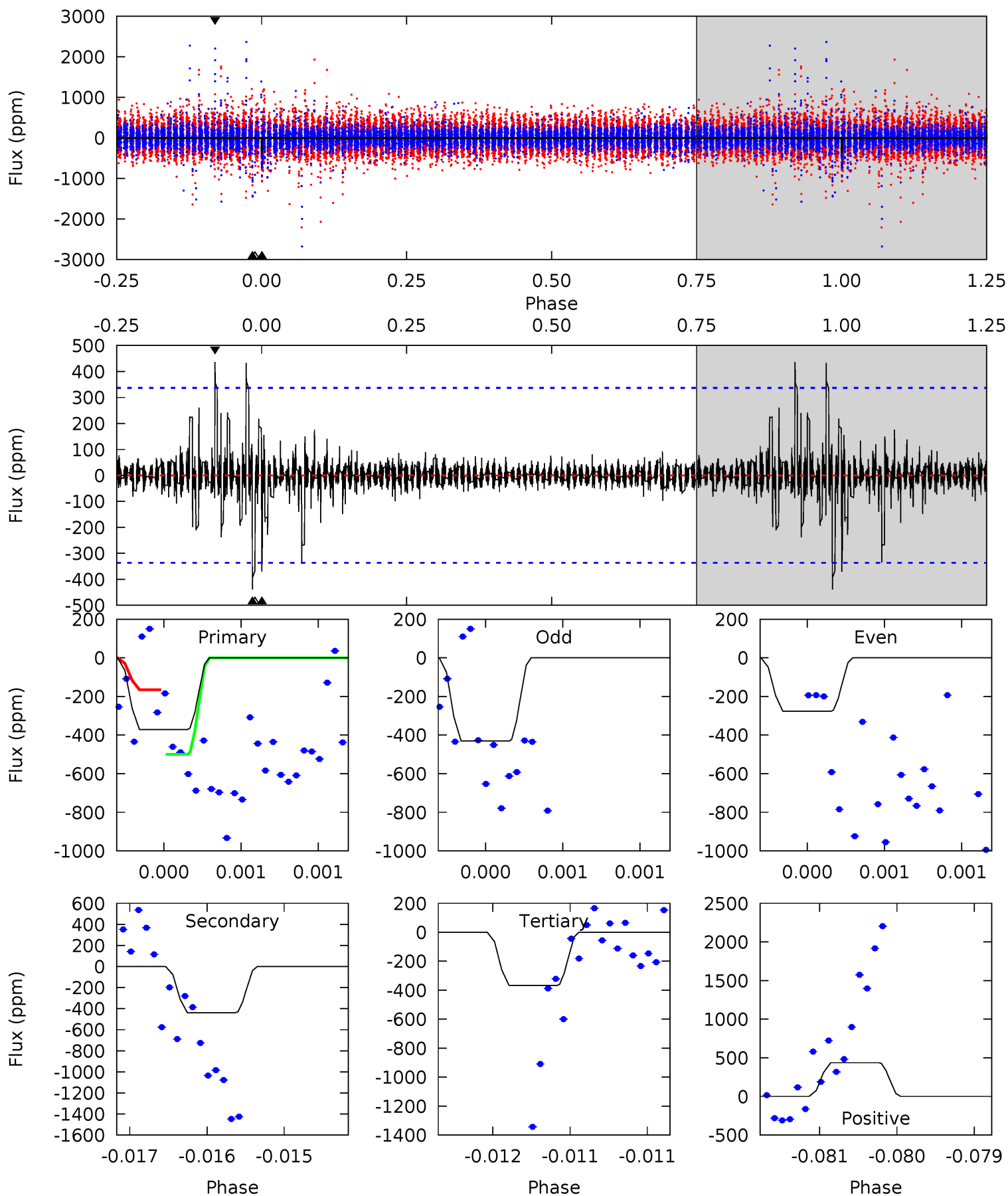
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.41	8.08	7.12	8.82	5.42	3.24	1.88	-0.71	-2.41	0.97	-0.73	1.40	1.21	0.52	0.98



Alt Model-Shift Uniqueness Test

011029626-02, P = 329.749980 Days, E = 159.983322 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.09	7.19	6.01	7.15	5.52	3.41	0.55	0.08	-1.06	1.18	0.04	1.14	1.00	0.50	2.52



Stellar Parameters For KIC 011029626

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5330^{+159}_{-159}	$4.473^{+0.120}_{-0.132}$	$-0.220^{+0.300}_{-0.300}$	$0.841^{+0.138}_{-0.113}$	$0.766^{+0.113}_{-0.052}$	$1.817^{+0.826}_{-0.620}$
	+3%/-3%	+3%/-3%	+136%/-136%	+16%/-13%	+15%/-7%	+45%/-34%
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 011029626-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-333 ± 41	$2.34^{+1.96}_{-1.50}$	326^{+16}_{-16}	4609^{+2938}_{-881}	$23946^{+172780}_{-16563}$
Alt.	-438 ± 61	$2.54^{+2.03}_{-1.51}$	326^{+18}_{-17}	4738^{+2564}_{-898}	$27628^{+139371}_{-19260}$

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 $A_{obs} \gg 1.0$

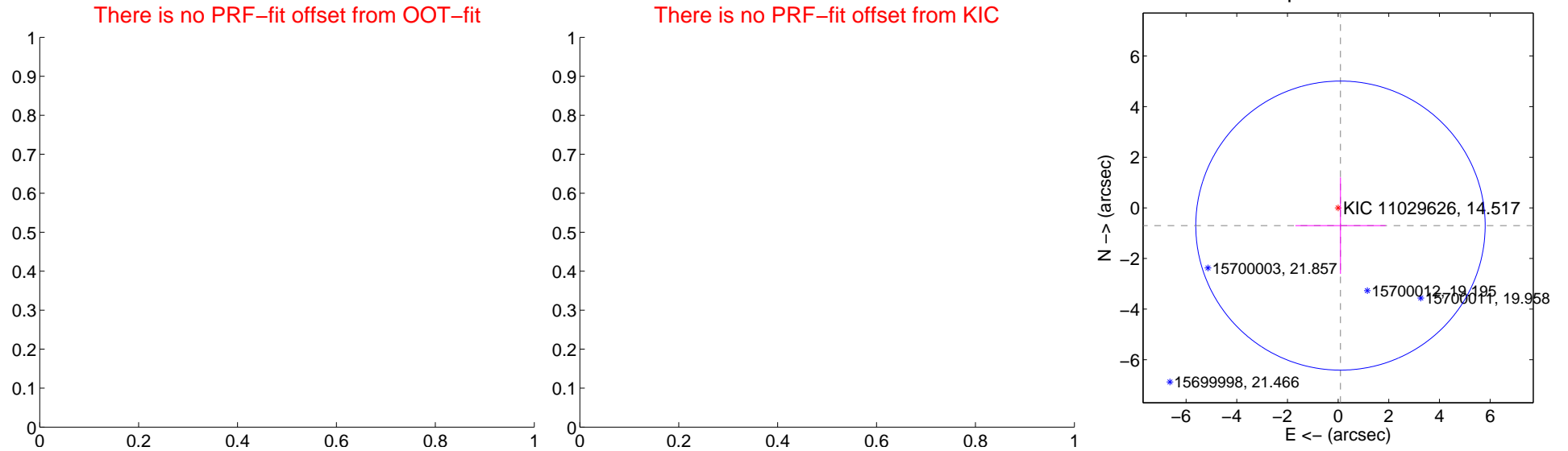
DV Centroid Data

Supplemental centroid analysis for 011029626-02. Kepler magnitude: 14.52. Transit SNR 4.21

There are 0 quarters with good PRF difference image offsets

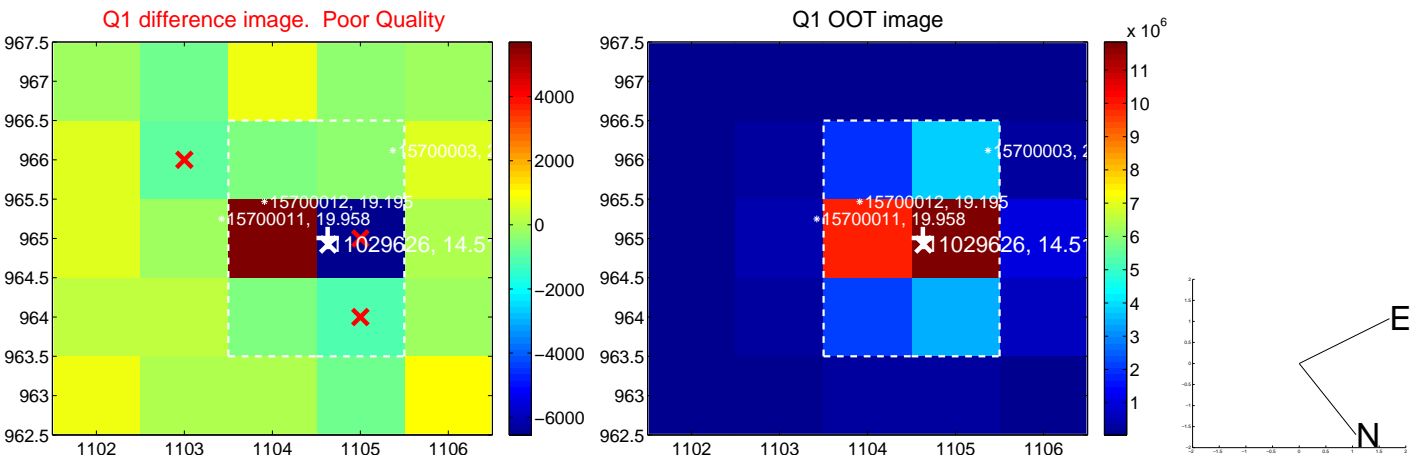
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	—	—	—	—
PRF-fit source offset from KIC position	—	—	—	—
photometric centroid source offset	0.71 ± 1.90	0.37	-0.09 ± 1.78	-0.70 ± 1.91

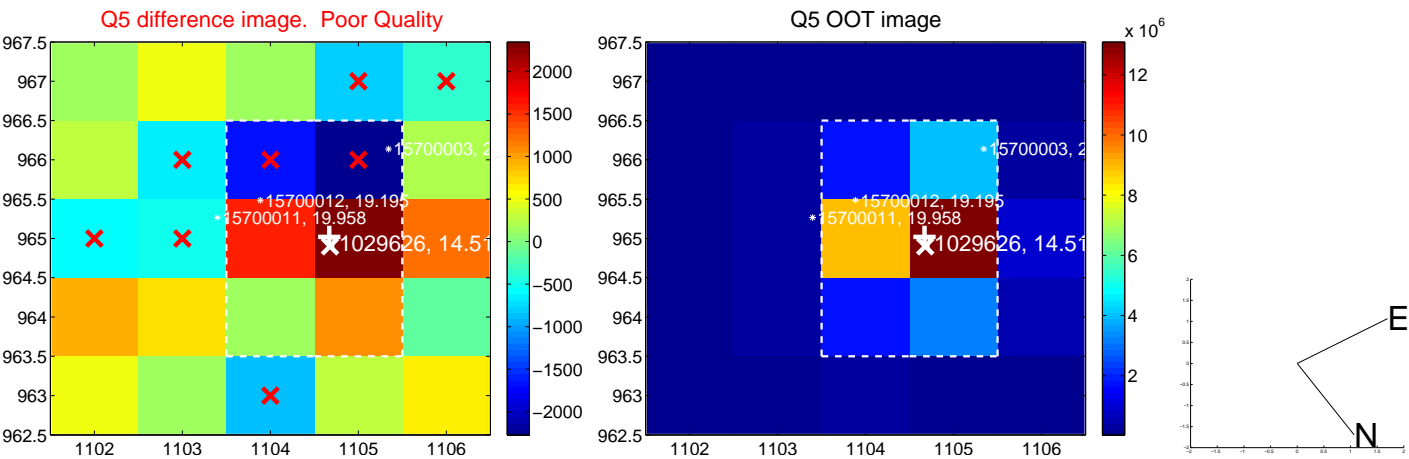


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

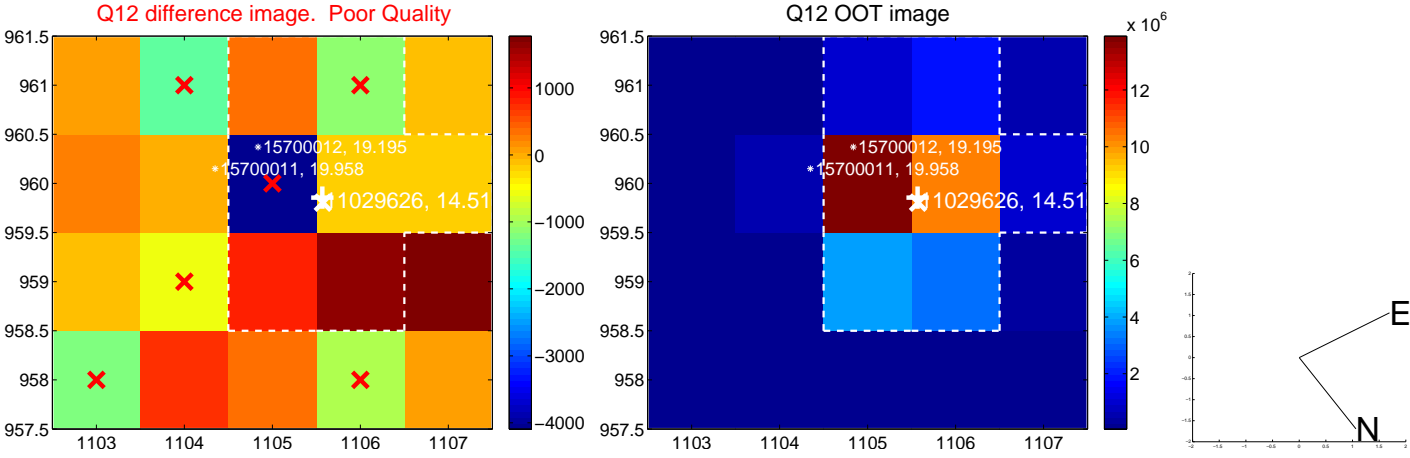
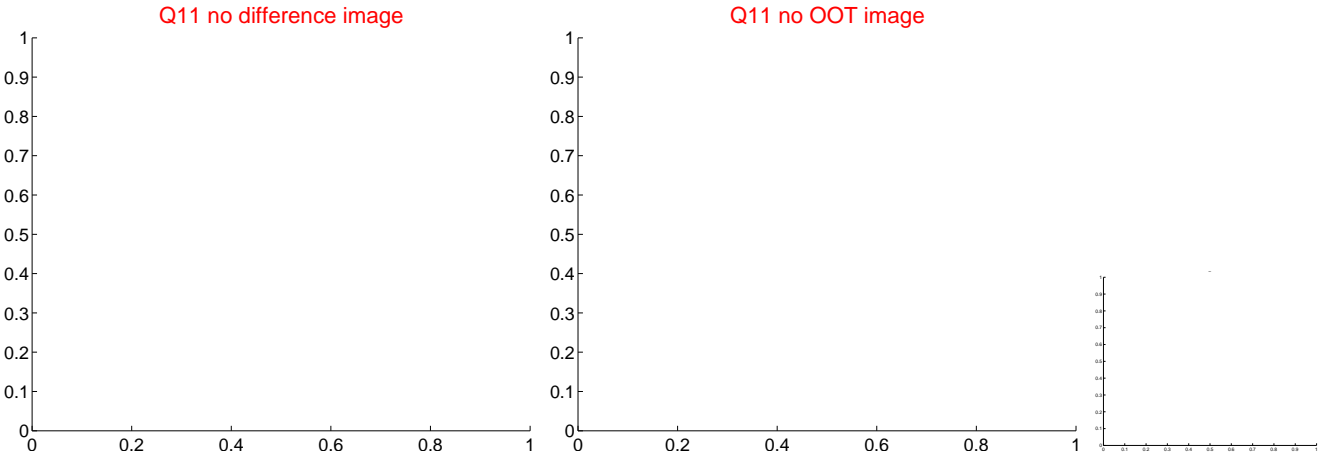
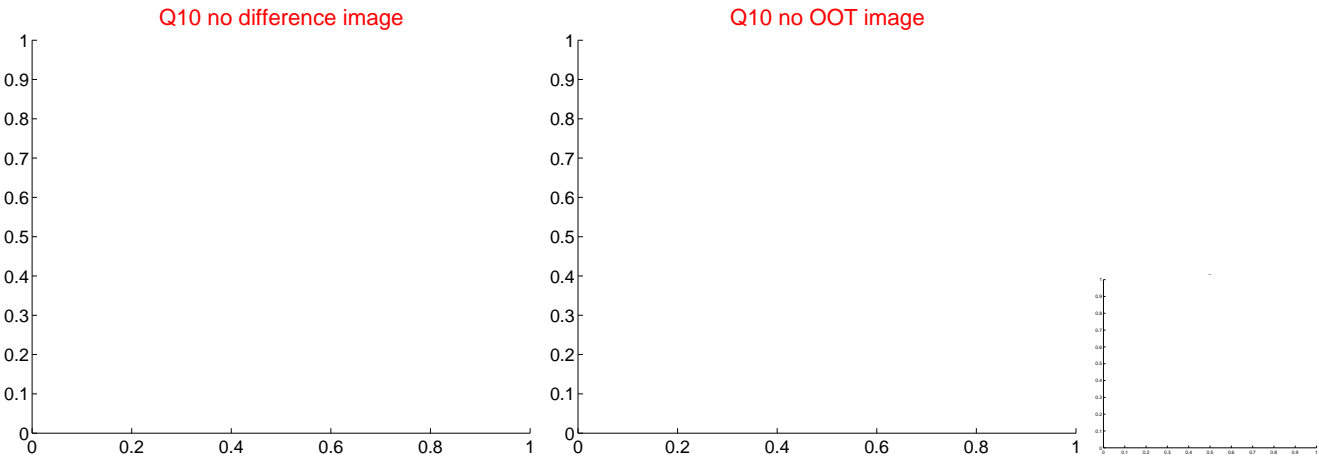
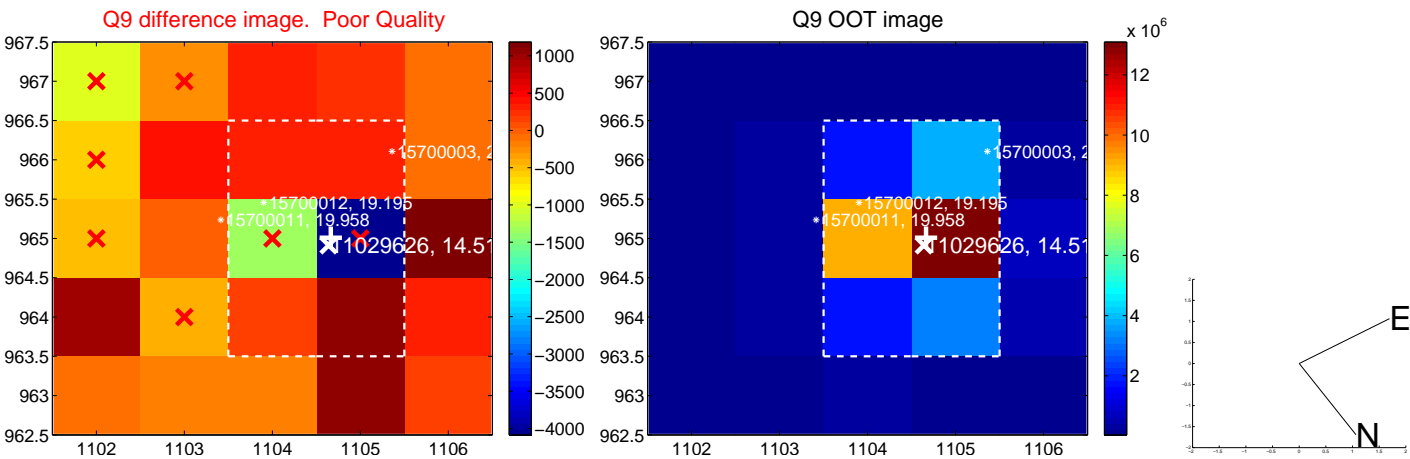
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



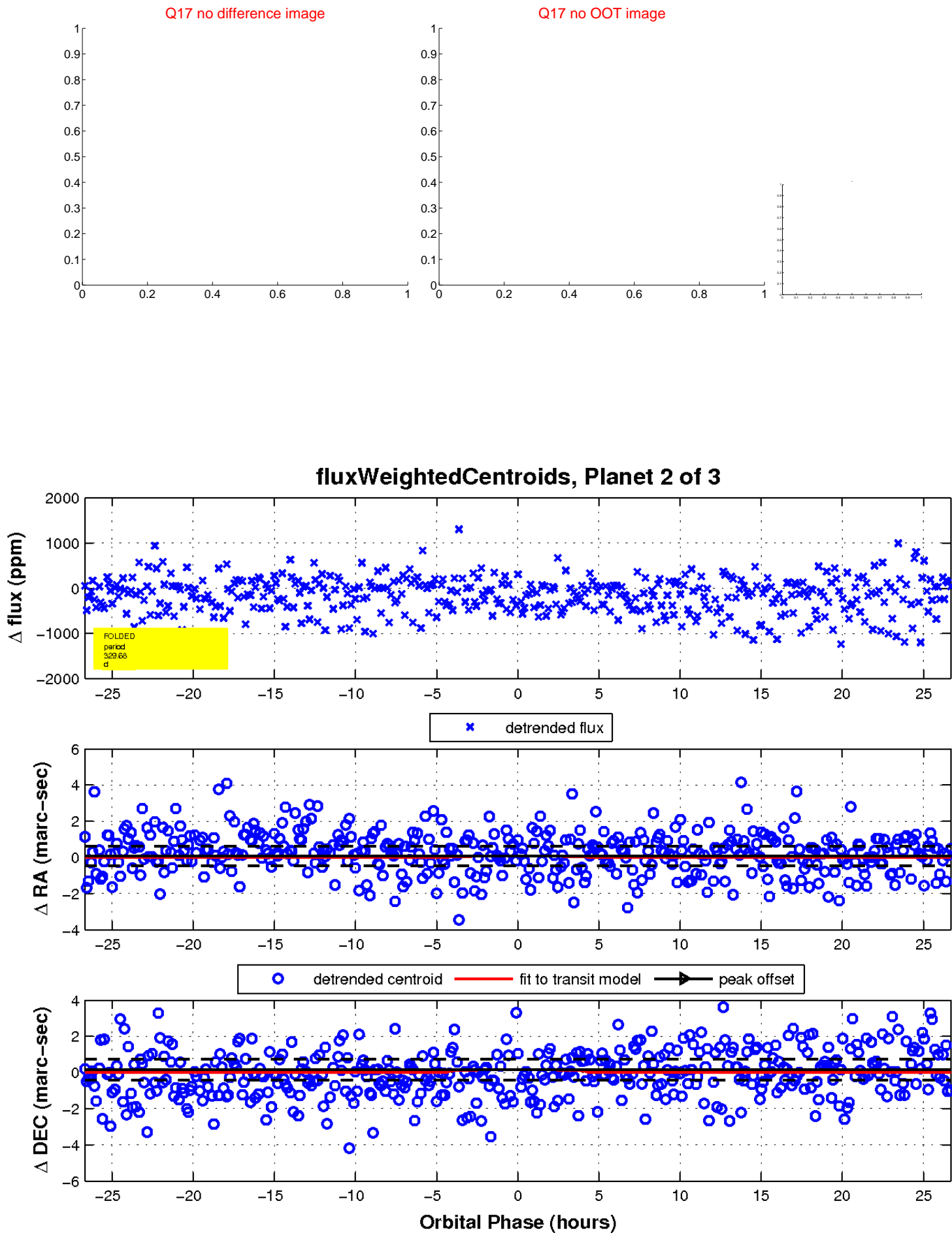
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

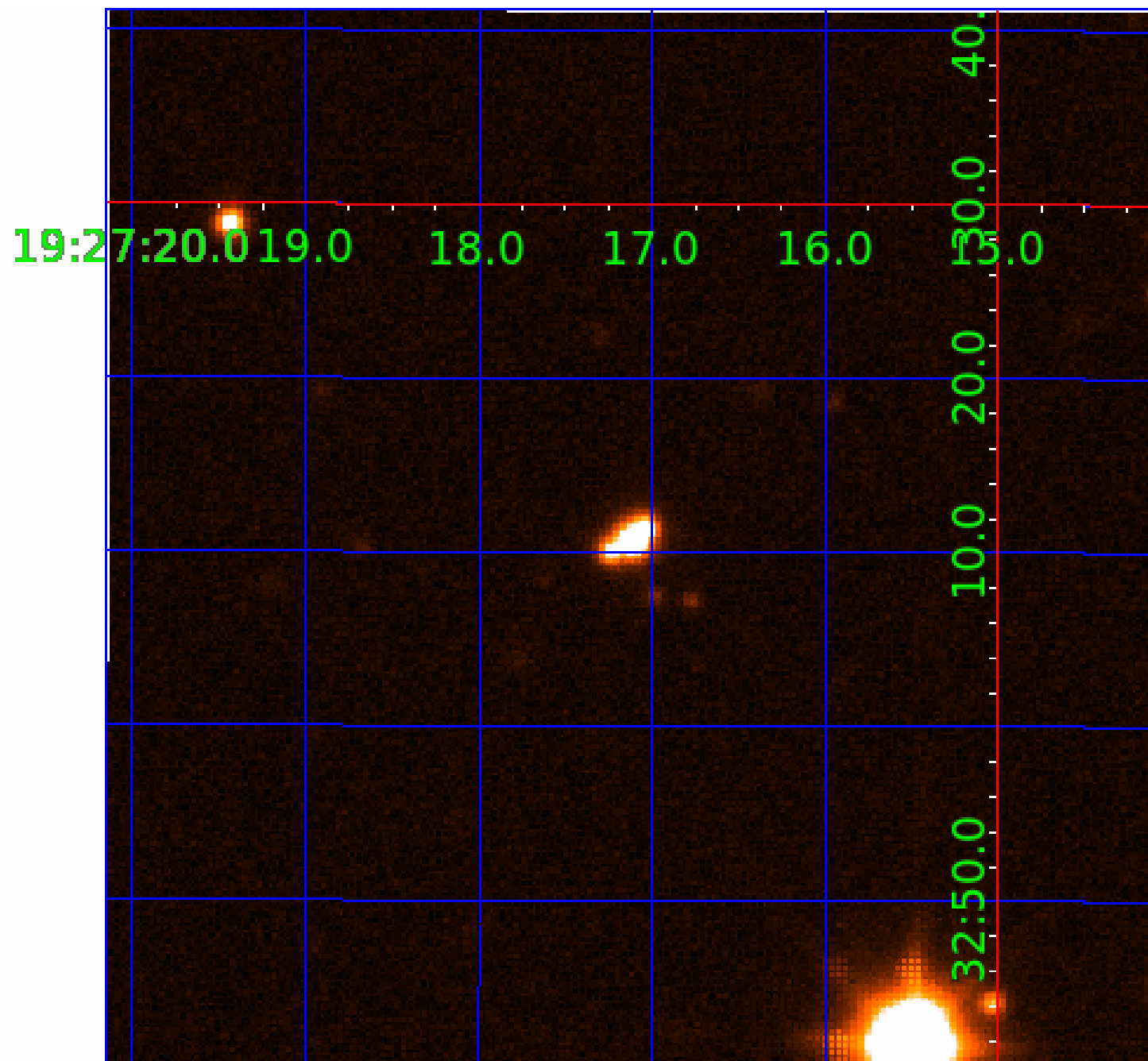


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011029626

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})
011029626-01	OBS	No	3.543361	134.578383	64.3	15.578	8.0	9.1	0.84	5330	0.87	294.97
011029626-02	OBS	No	329.678898	160.239718	300.6	8.899	9.2	4.2	0.84	5330	1.60	0.70
011029626-03	OBS	No	3.543284	132.837280	70.0	18.465	9.0	12.4	0.84	5330	0.70	294.98

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011029626-01	OBS	FP	0.00	1	0	0	0	LPP_DV
011029626-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011029626-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—SAME_NTL_PERIOD

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

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

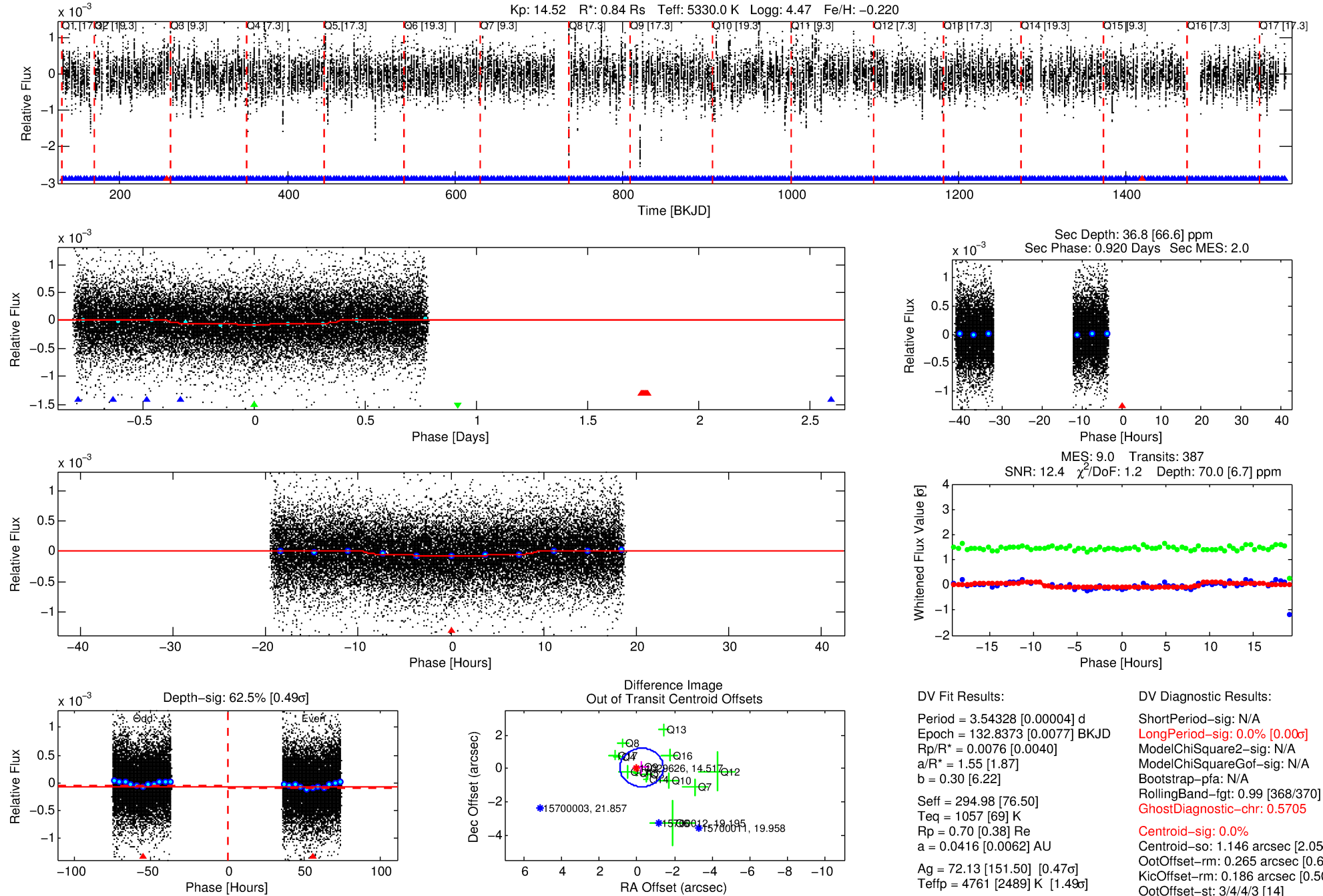
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011029626-03

No Significant Match Found

DV One-Page Summary

KIC: 11029626 Candidate: 3 of 3 Period: 3.543 d



DV Fit Results:

Period = 3.54328 [0.00004] d
Epoch = 132.8373 [0.0077] BKJD
Rp/R* = 0.0076 [0.0040]
a/R* = 1.55 [1.87]
b = 0.30 [6.22]
Seff = 294.98 [76.50]
Teff = 1057 [69] K
Rp = 0.70 [0.38] Re
a = 0.0416 [0.0062] AU
Ag = 72.13 [151.50] [0.47σ]
Teffp = 4761 [2489] K [1.49σ]

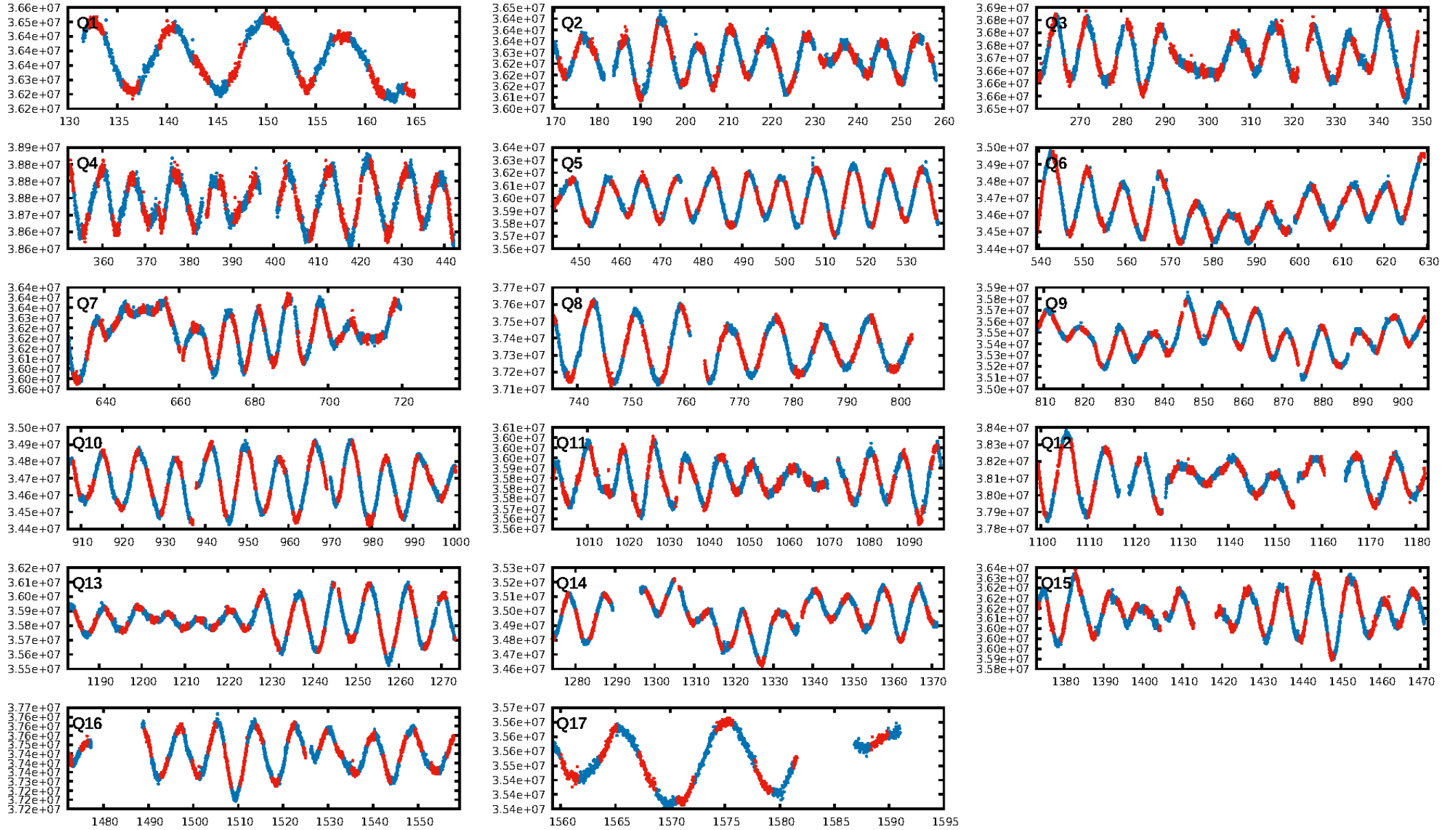
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 0.99 [368/370]
GhostDiagnostic-chr: 0.5705
Centroid-sig: 0.0%
Centroid-so: 1.146 arcsec [2.05σ]
OotOffset-rm: 0.265 arcsec [0.69σ]
KicOffset-rm: 0.186 arcsec [0.50σ]
OotOffset-st: 3/4/4/3 [14]
KicOffset-st: 3/4/4/3 [14]
DiffImageQuality-fgm: 0.71 [10/14]
DiffImageOverlap-fno: 1.00 [17/17]

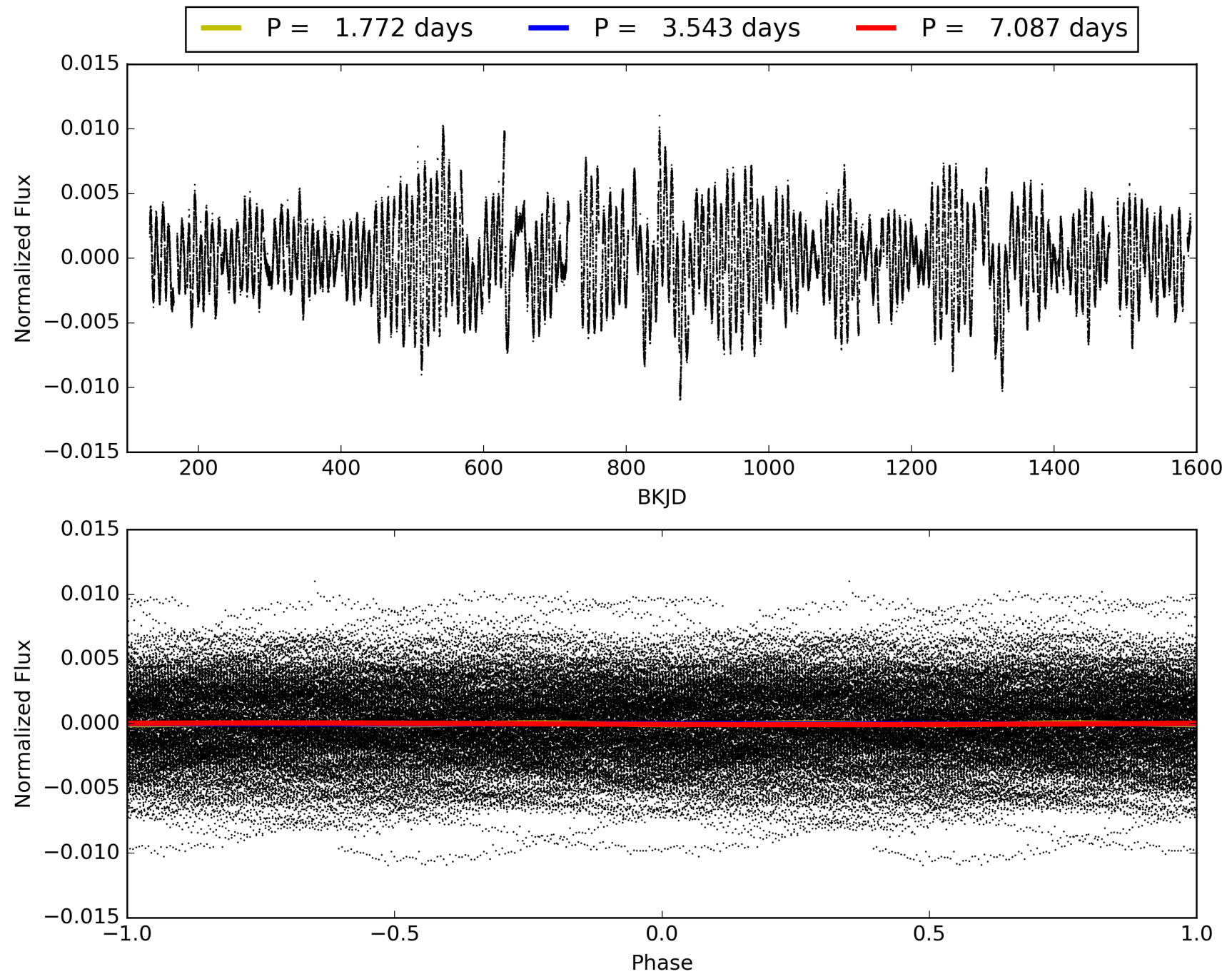
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:51:20 Z

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

TCE 011029626-03, PDC Light Curves

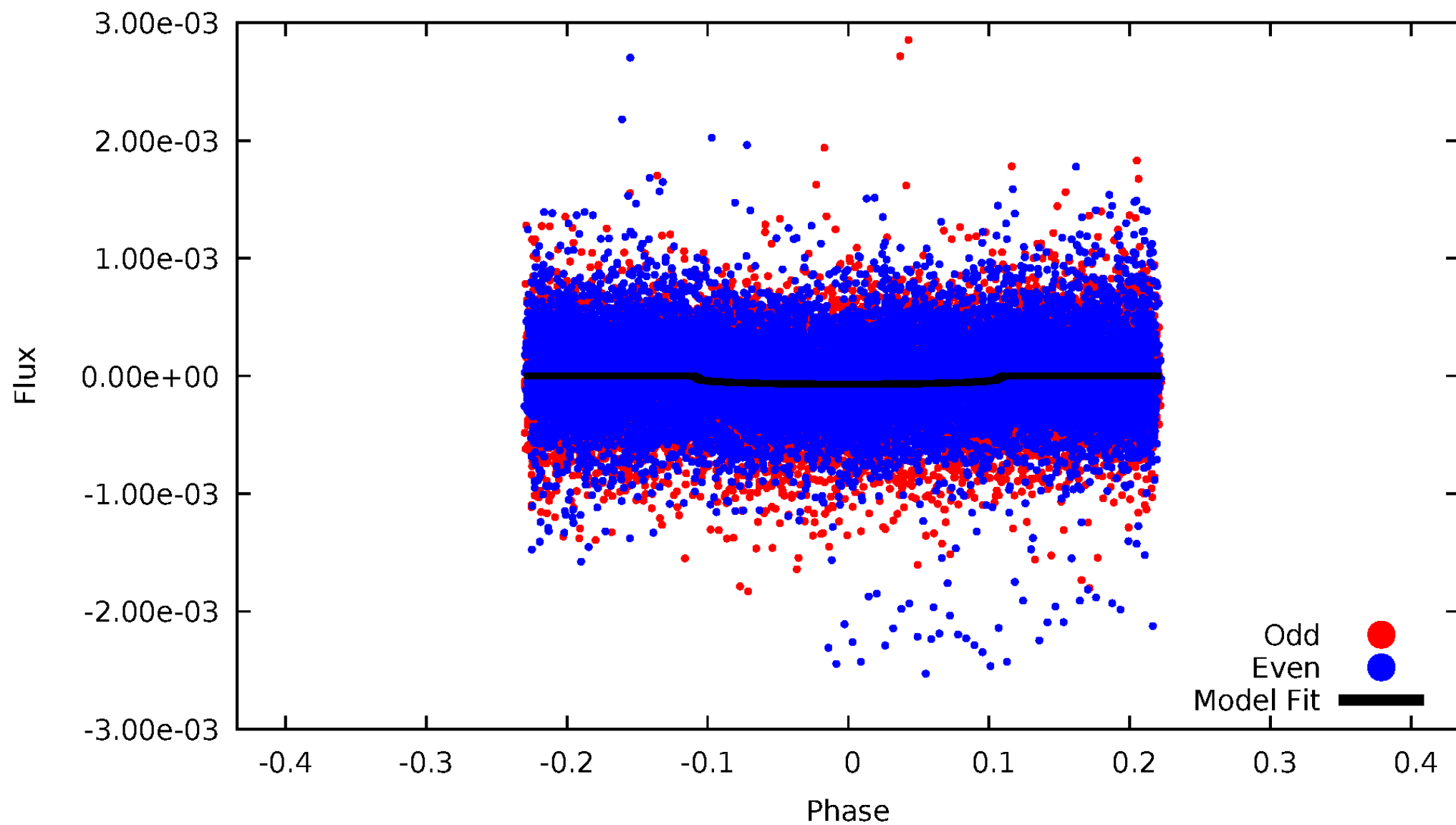


TCE 011029626-03



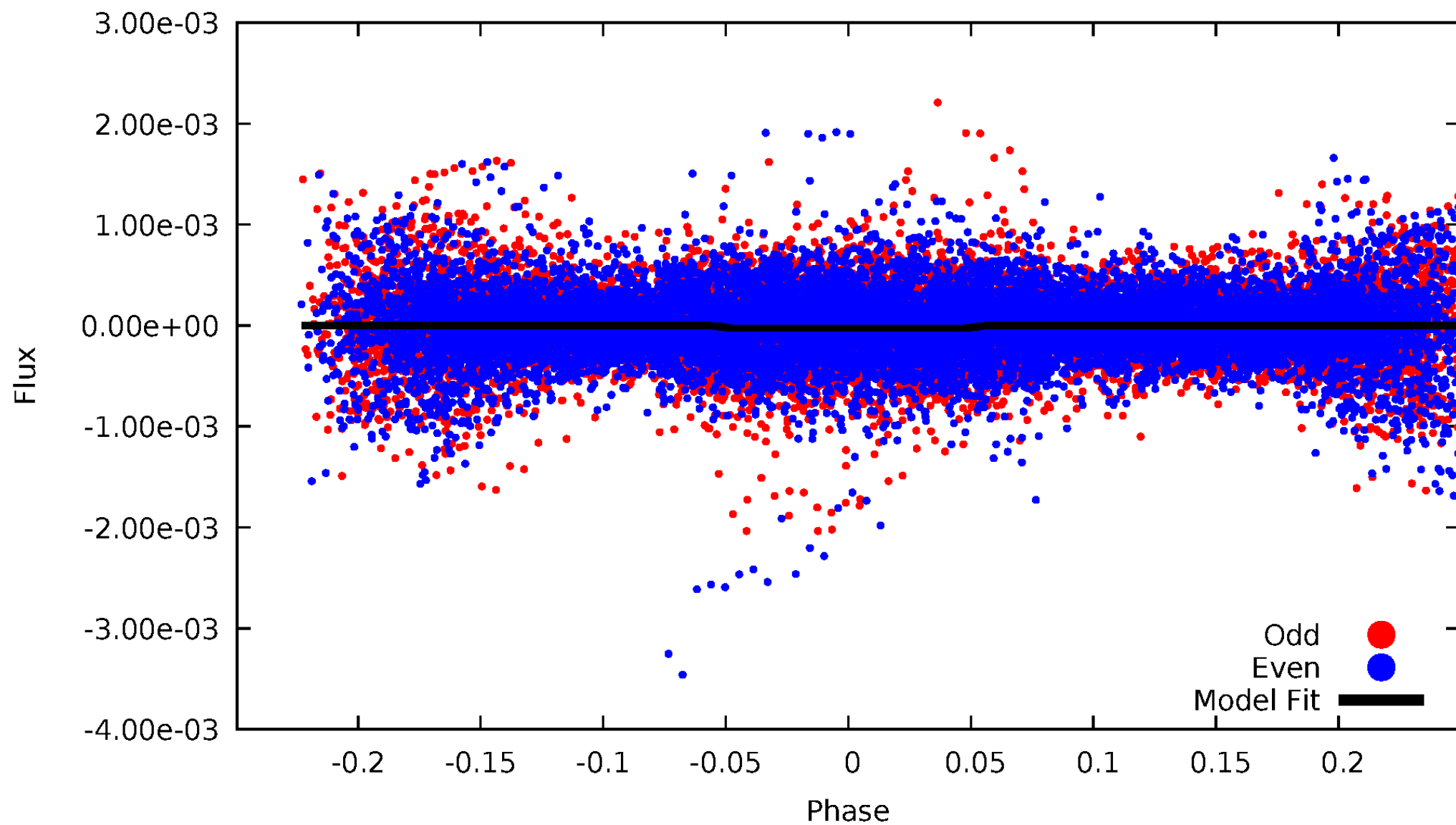
DV Odd/Even

TCE 011029626-03

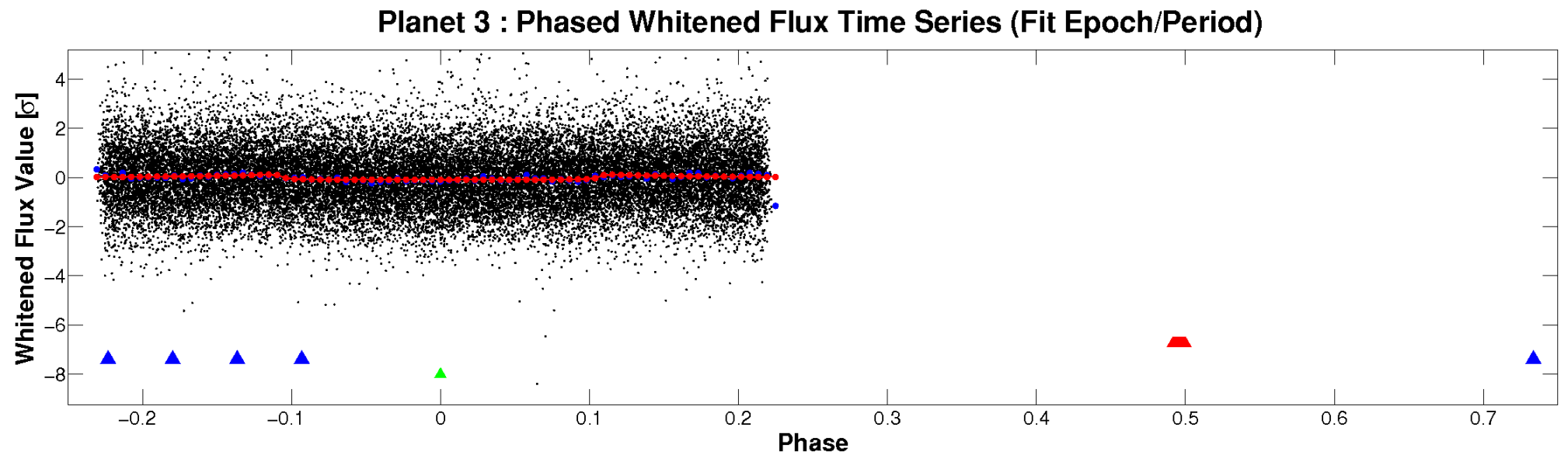
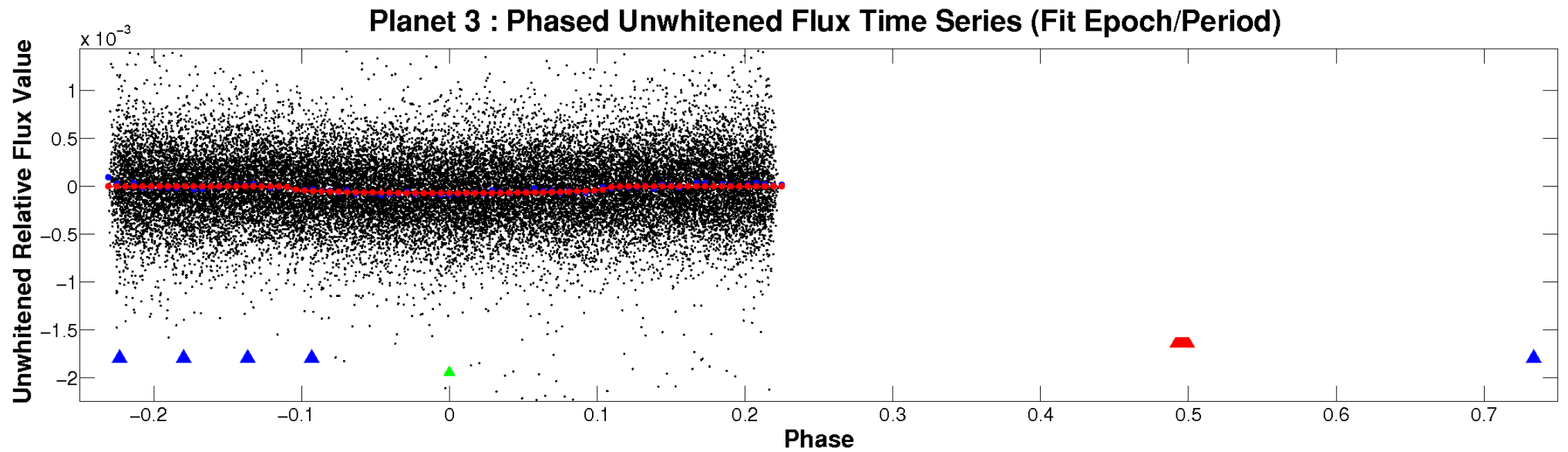


ALT Odd/Even

TCE 011029626-03

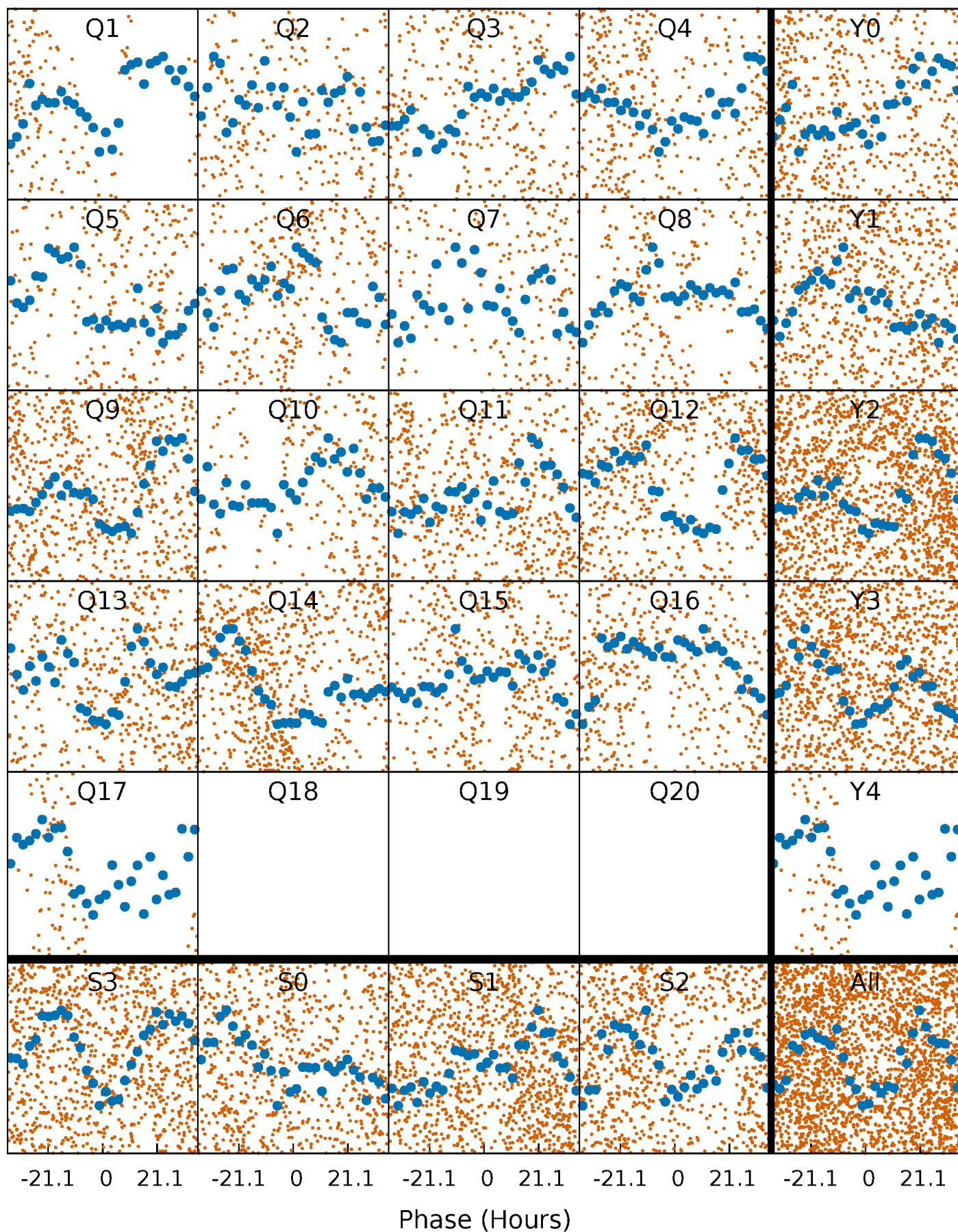


Non-Whitened Vs. Whitened Light Curve



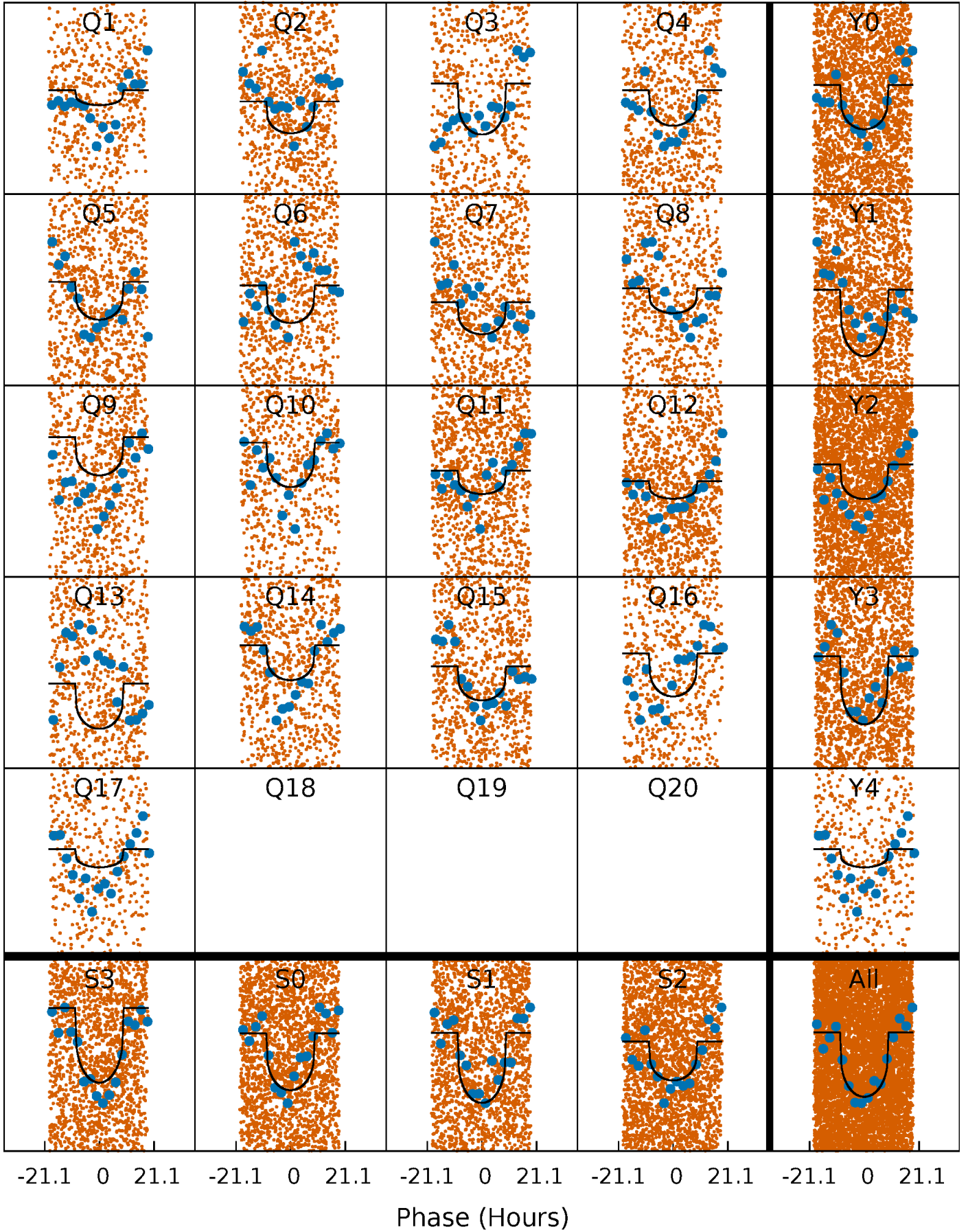
PDC Quarter-Phased Transit Curves

TCE 011029626-03 P= 3.543284 Days $T_0=132.837280$ (BKJD)



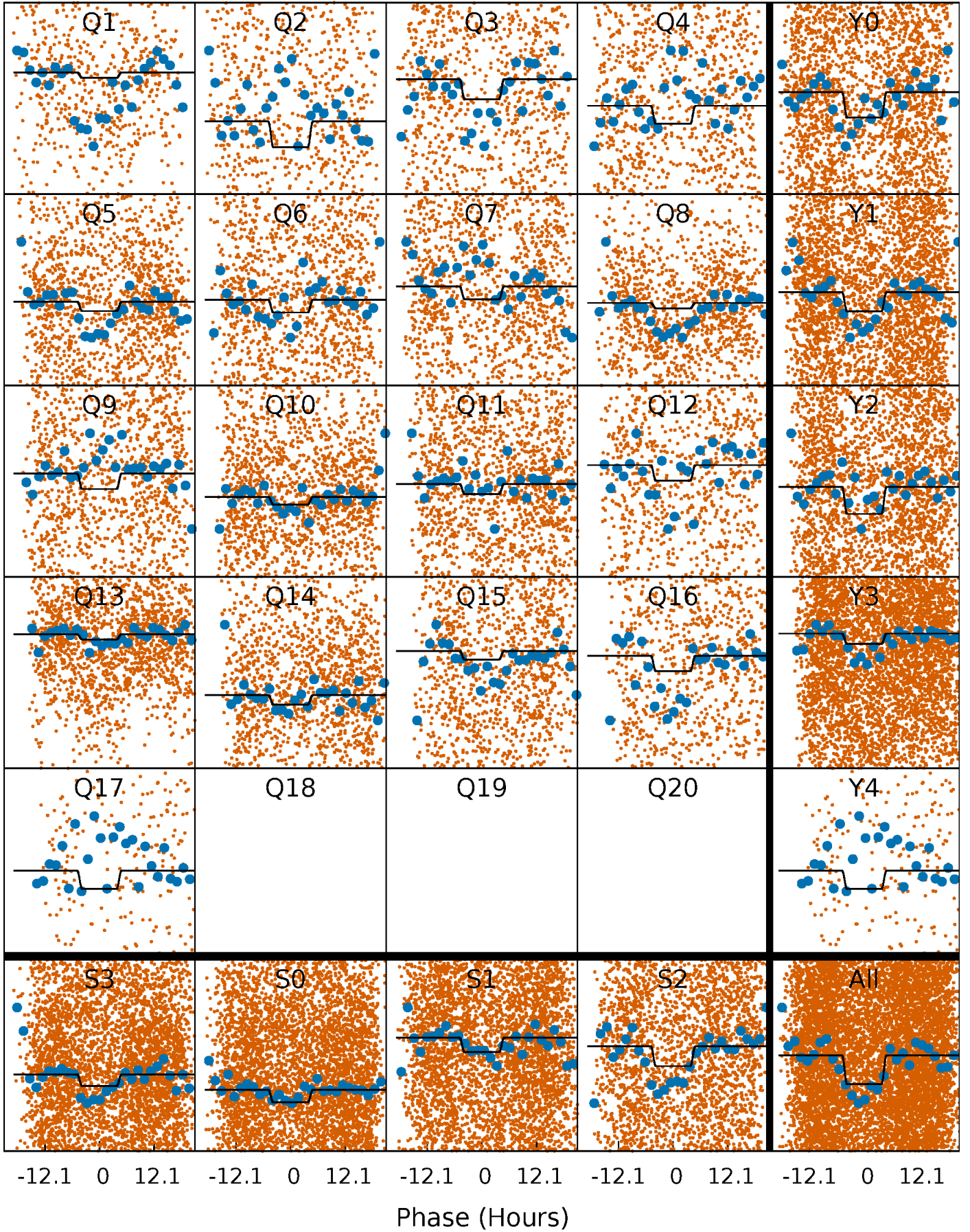
DV Quarter-Phased Transit Curves

TCE 011029626-03 P= 3.543284 Days $T_0=132.837280$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

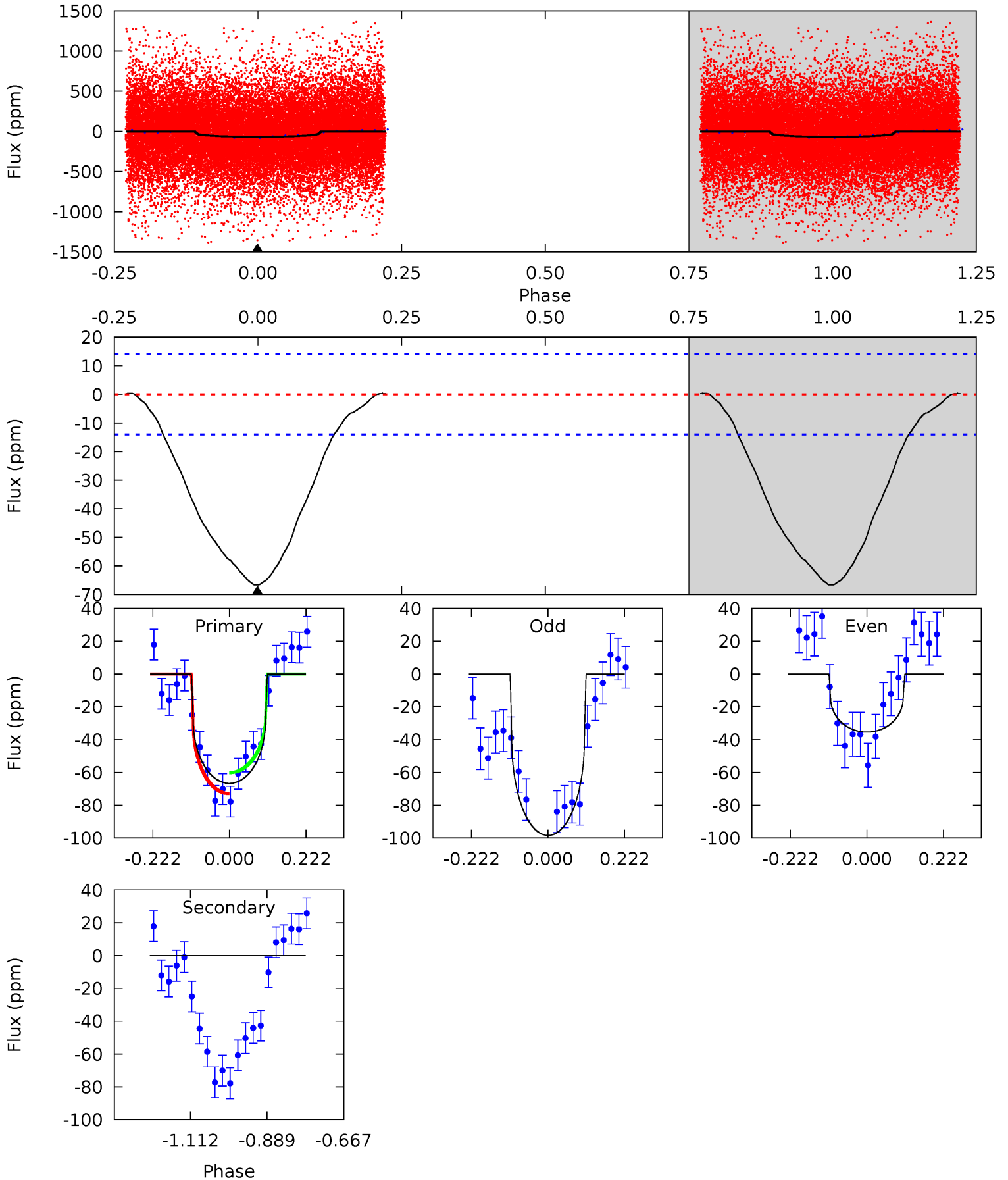
TCE 011029626-03 P= 3.542900 Days $T_0=132.813121$ (BKJD)



DV Model-Shift Uniqueness Test

011029626-03, P = 3.543284 Days, E = 129.293996 Days

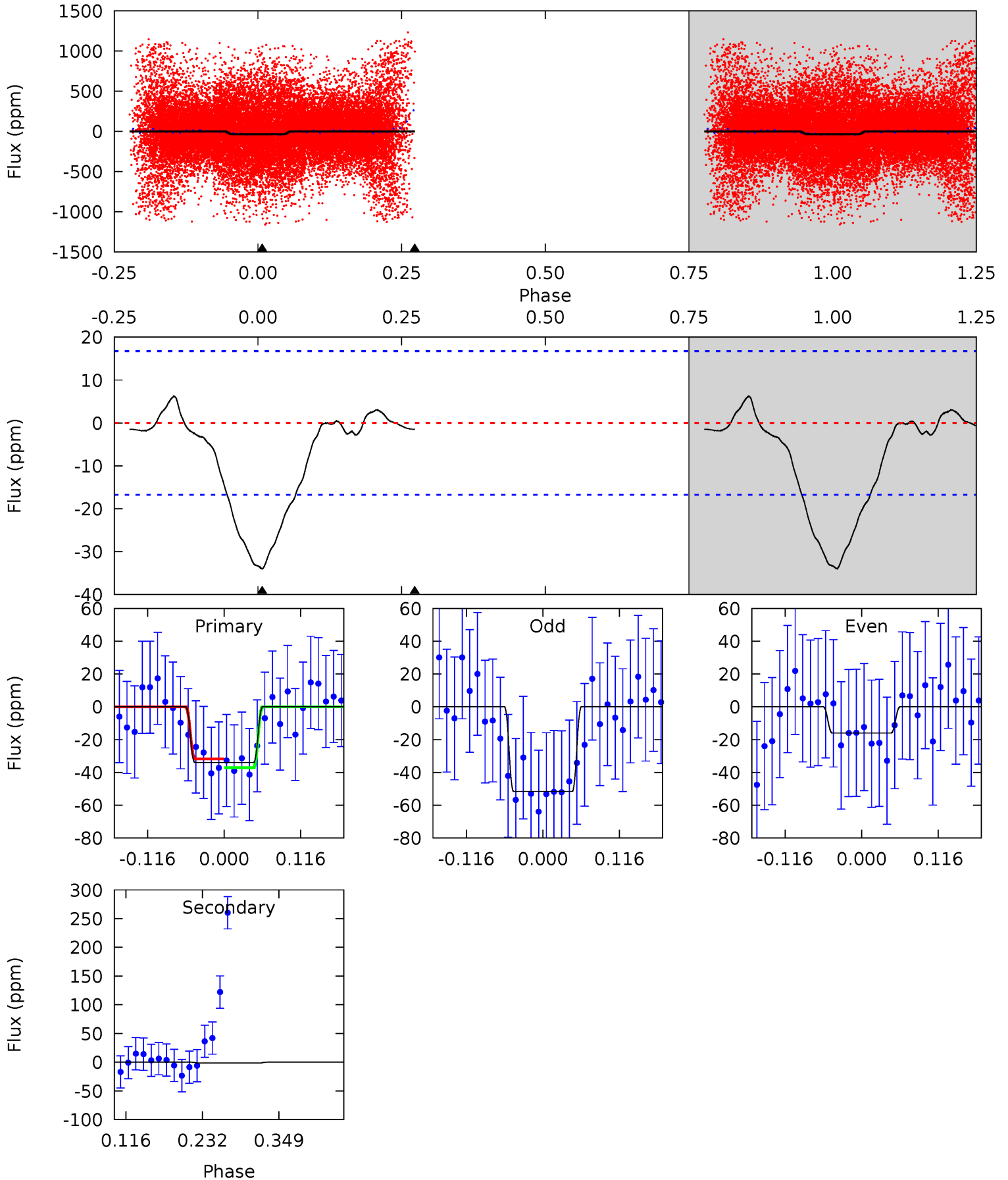
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.9	0	0	0	4.39	1.22	0.26	20.9	20.9	0	0	9.90	1.52	0.01	2.18



Alt Model-Shift Uniqueness Test

011029626-03, P = 3.542900 Days, E = 129.270221 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.19	0.40	0	0	4.53	1.57	0.71	9.19	9.19	0.40	0.40	4.86	0.82	0.15	0.77



Stellar Parameters For KIC 011029626

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5330^{+159}_{-159}	$4.473^{+0.120}_{-0.132}$	$-0.220^{+0.300}_{-0.300}$	$0.841^{+0.138}_{-0.113}$	$0.766^{+0.113}_{-0.052}$	$1.817^{+0.826}_{-0.620}$
	+3%/-3%	+3%/-3%	+136%/-136%	+16%/-13%	+15%/-7%	+45%/-34%
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 011029626-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 3	$0.69^{+0.39}_{-0.33}$	1482^{+77}_{-78}	-1926^{+5243}_{-1400}	$0.183^{+8.091}_{-8.594}$
Alt.	-1 ± 4	$0.54^{+0.34}_{-0.30}$	1480^{+78}_{-74}	2912^{+1103}_{-6170}	$3.617^{+22.377}_{-11.150}$

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 $A_{obs} \gg 1.0$

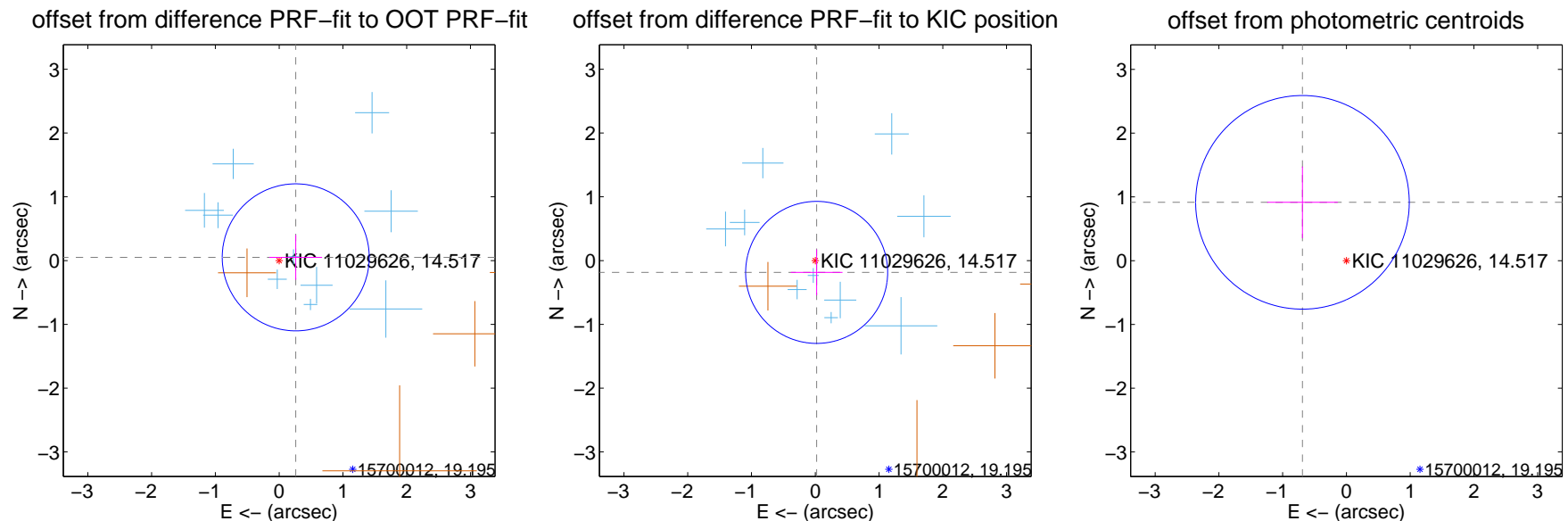
DV Centroid Data

Supplemental centroid analysis for 011029626-03. Kepler magnitude: 14.52. Transit SNR 12.37

There are 10 quarters with good PRF difference image offsets

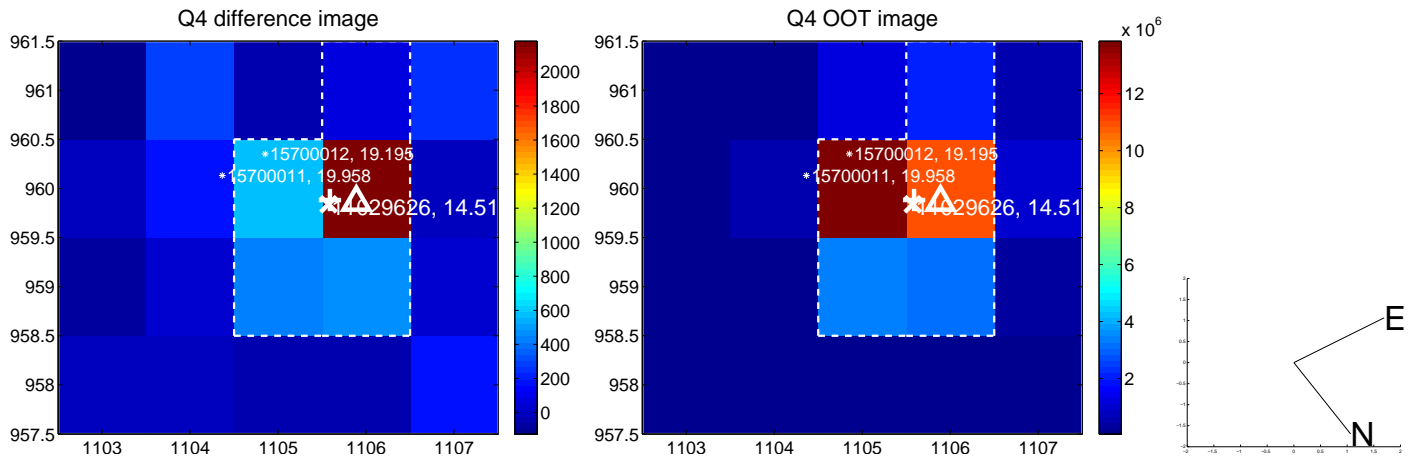
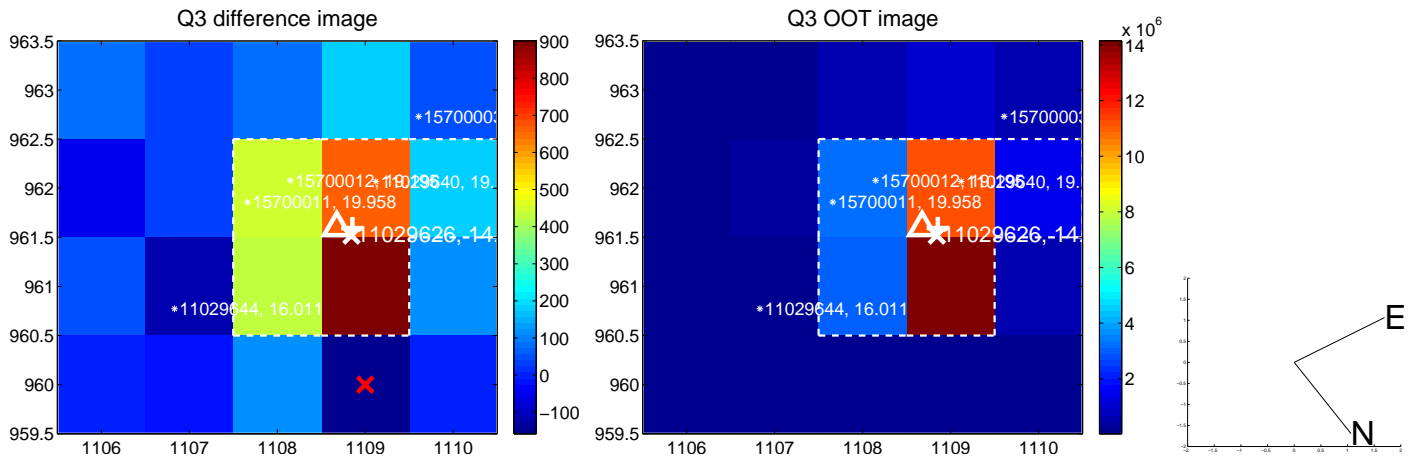
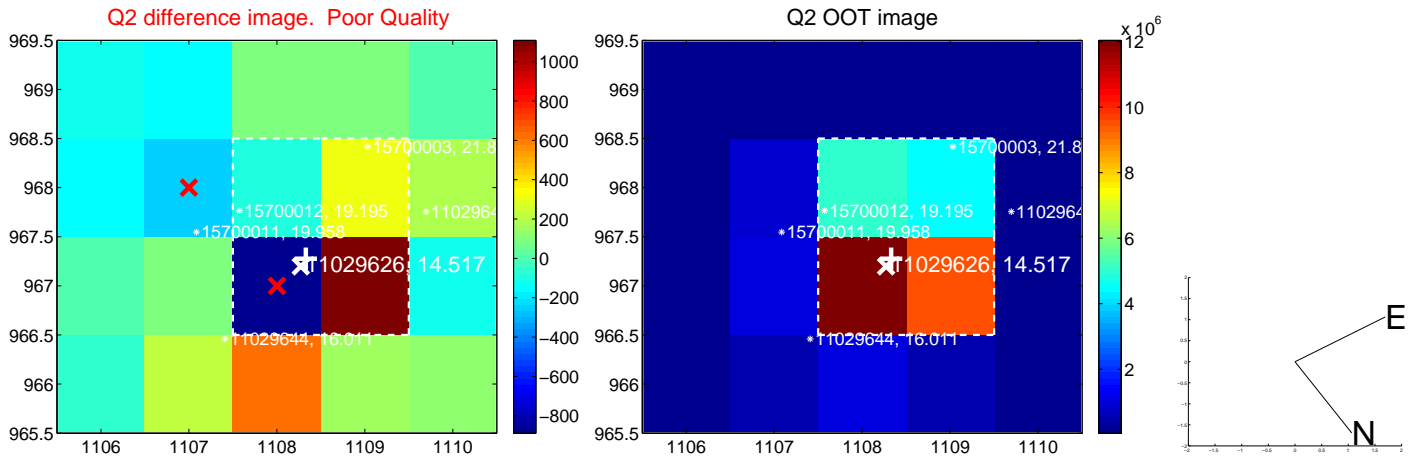
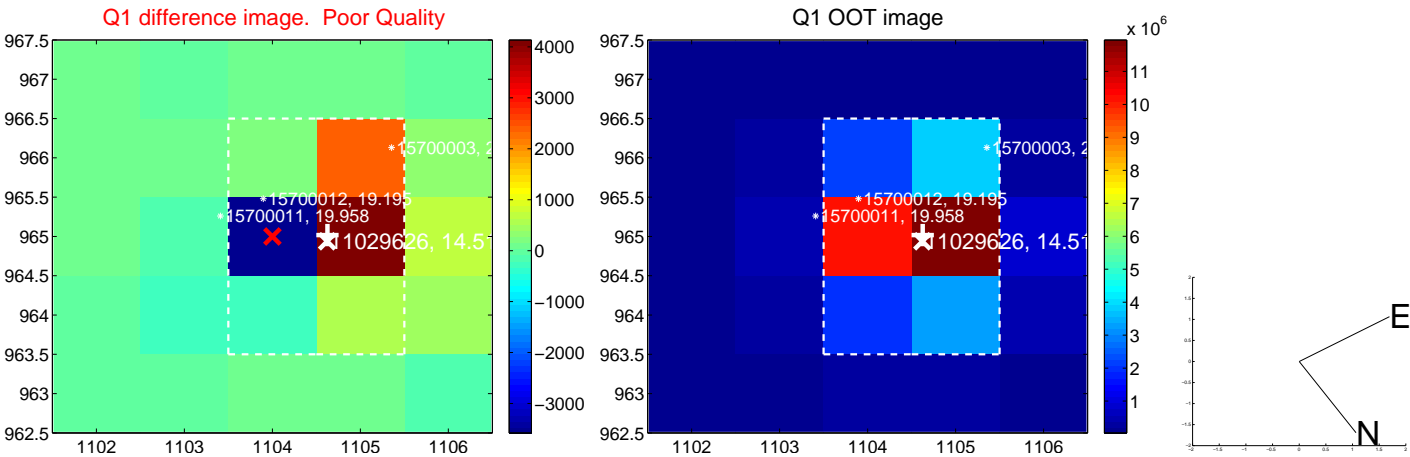
The direct PRF centroid is offset from the target star catalog position by about 0.38 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.265 ± 0.384	0.69	-0.260 ± 0.414	0.051 ± 0.351
PRF-fit source offset from KIC position	0.186 ± 0.371	0.50	-0.022 ± 0.405	-0.185 ± 0.359
photometric centroid source offset	1.15 ± 0.56	2.05	0.69 ± 0.55	0.91 ± 0.56

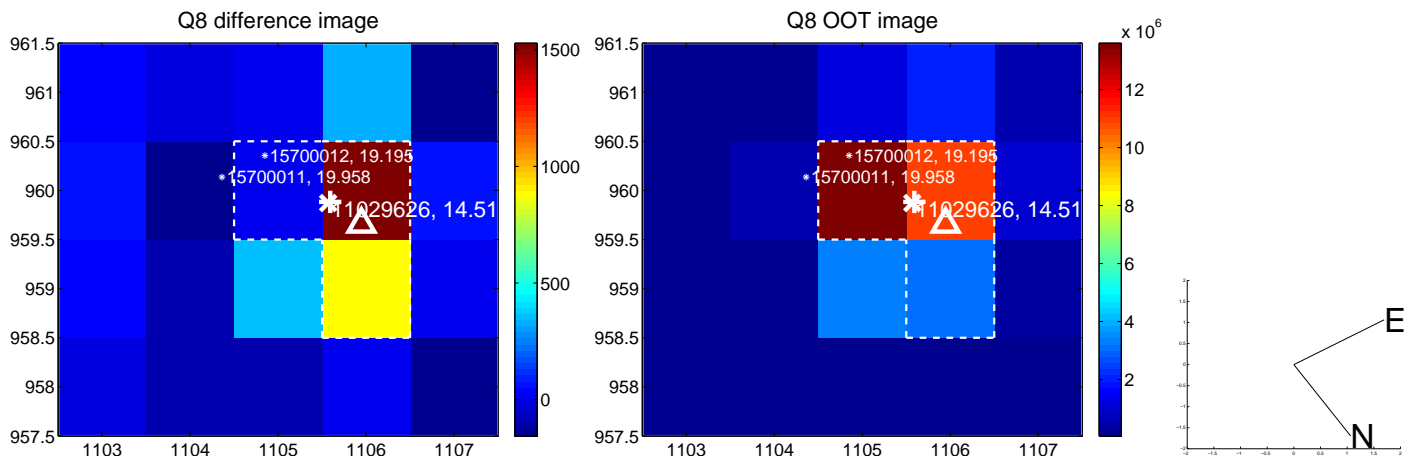
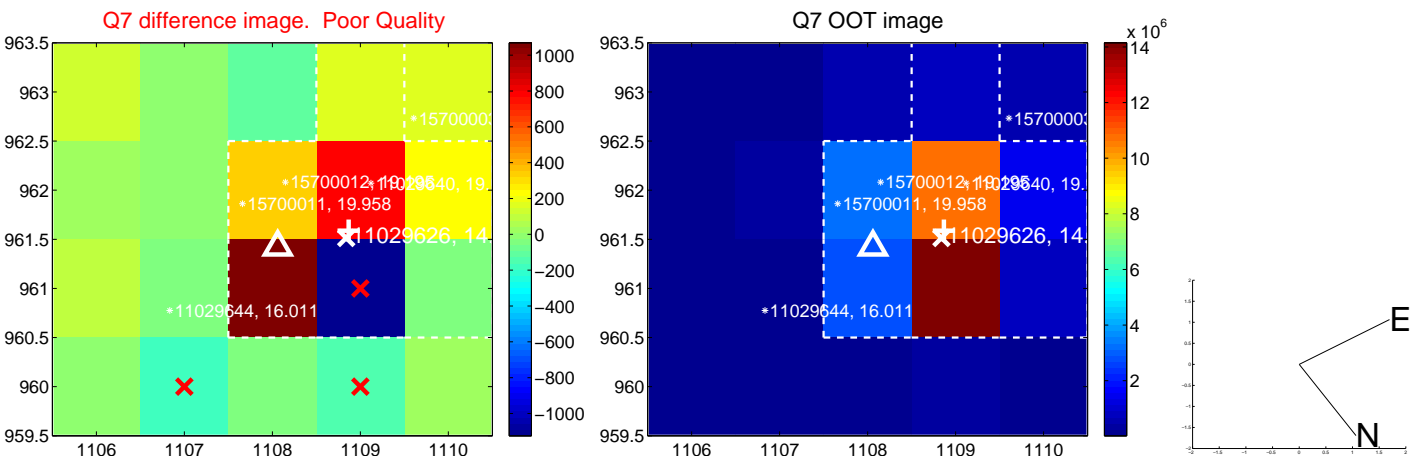
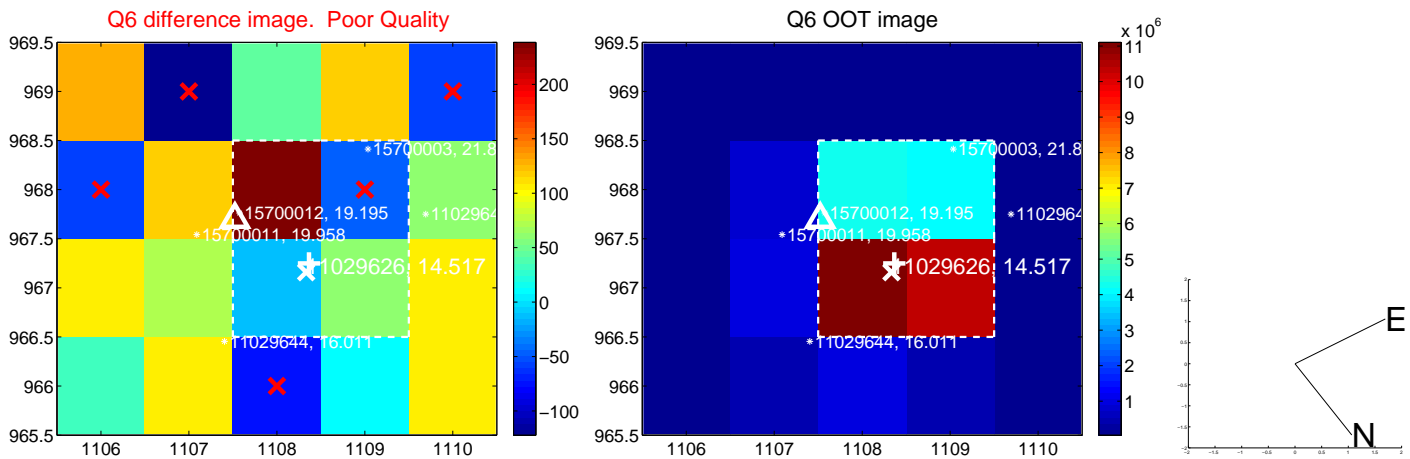
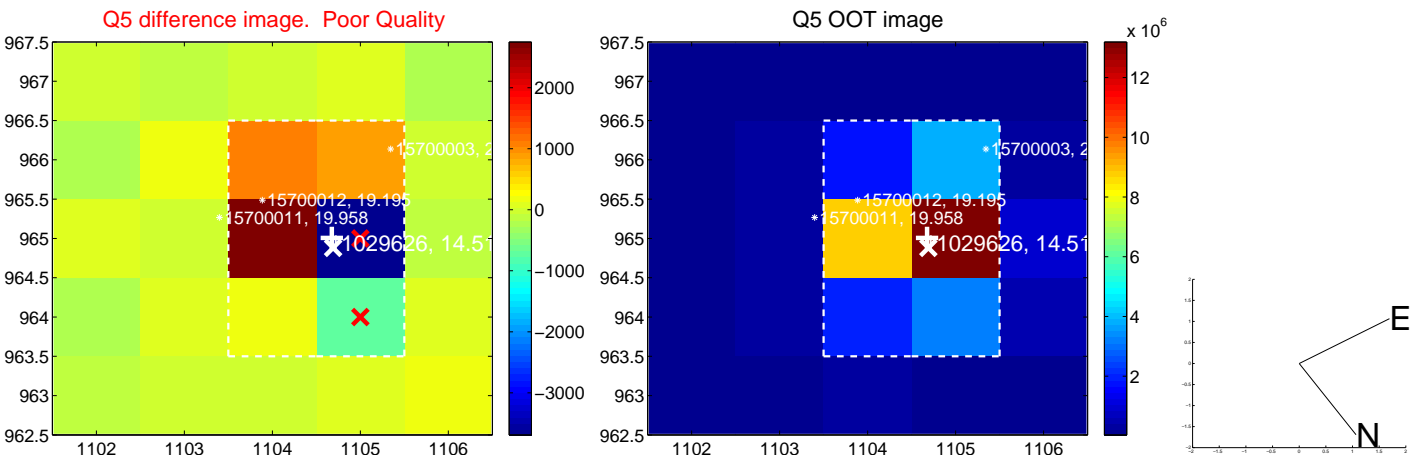


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

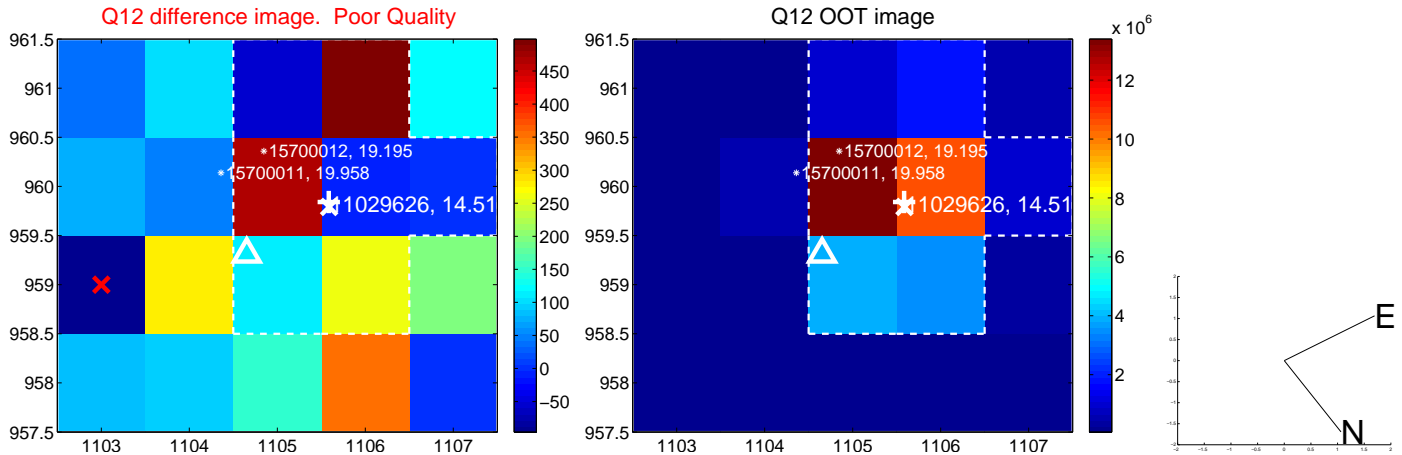
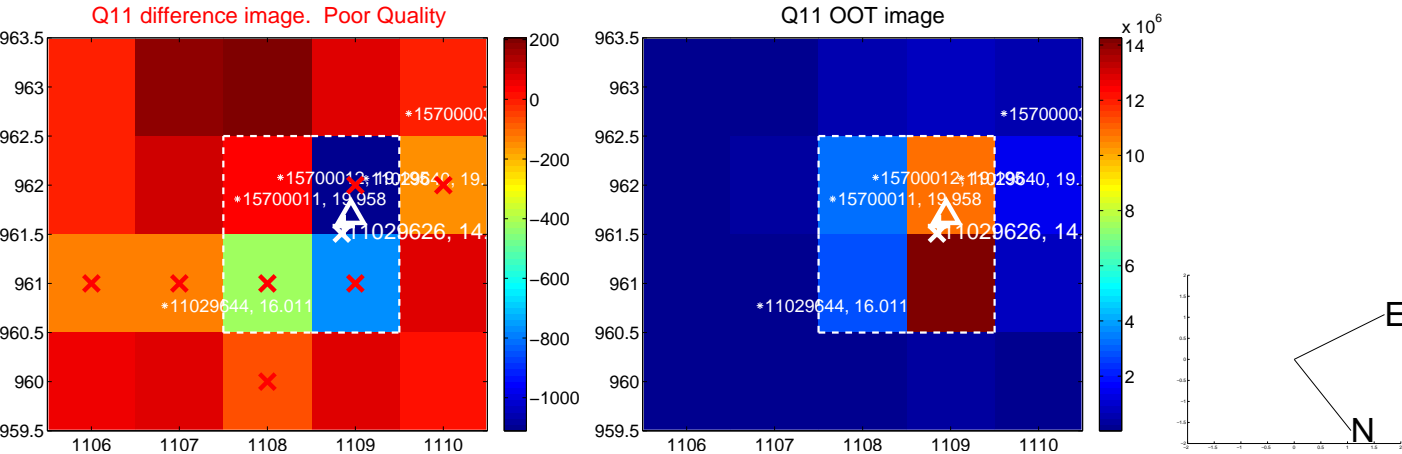
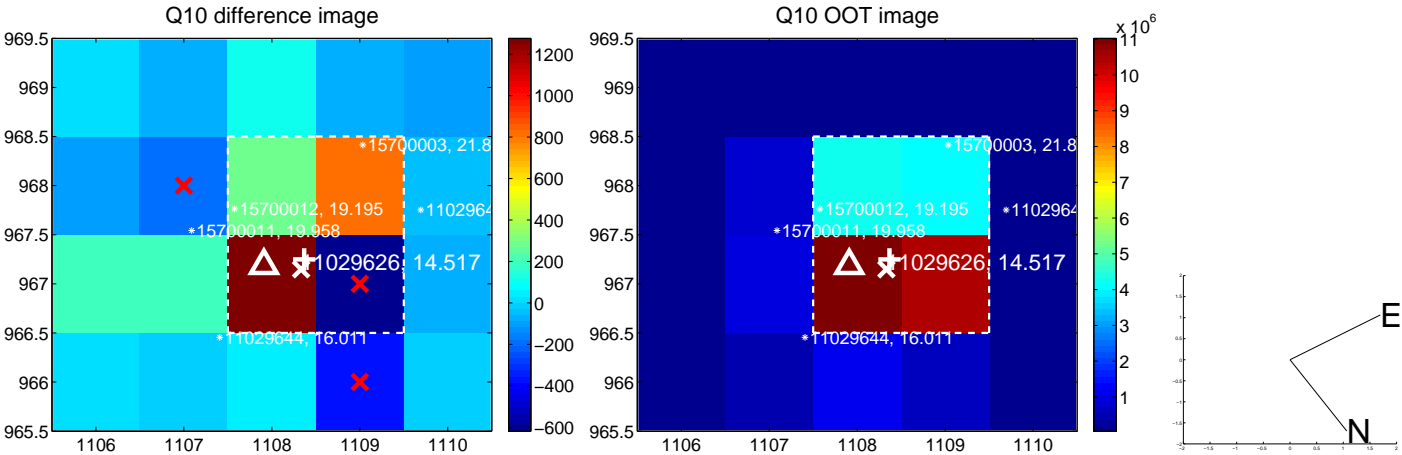
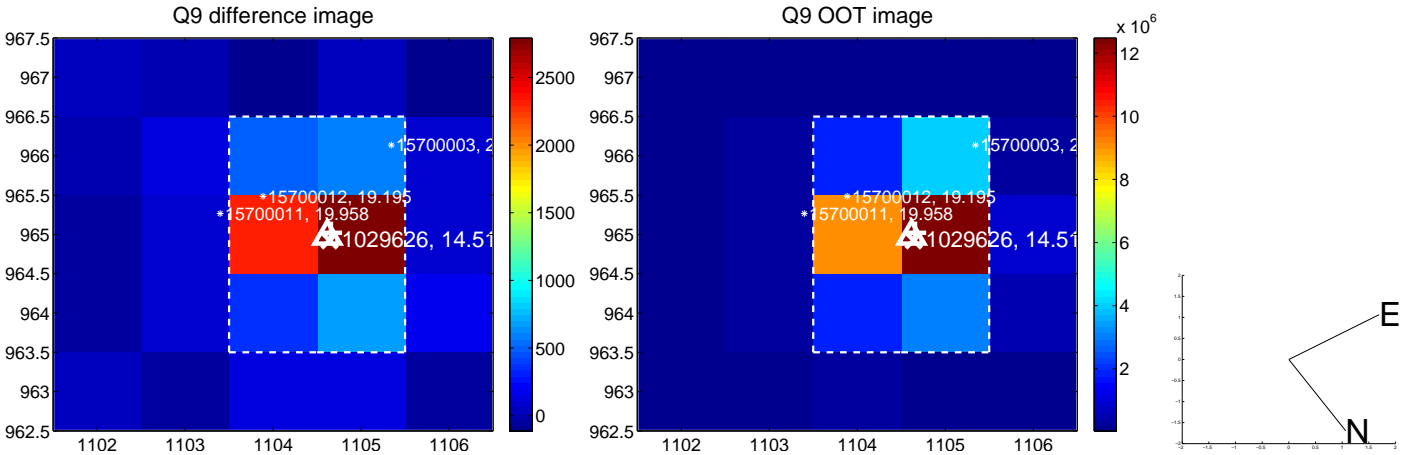
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



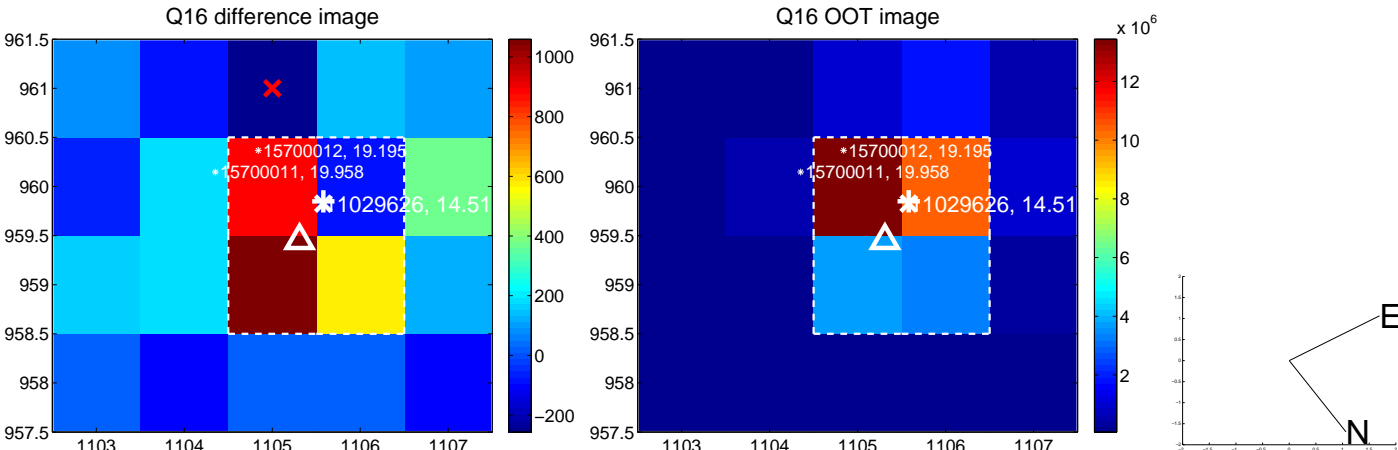
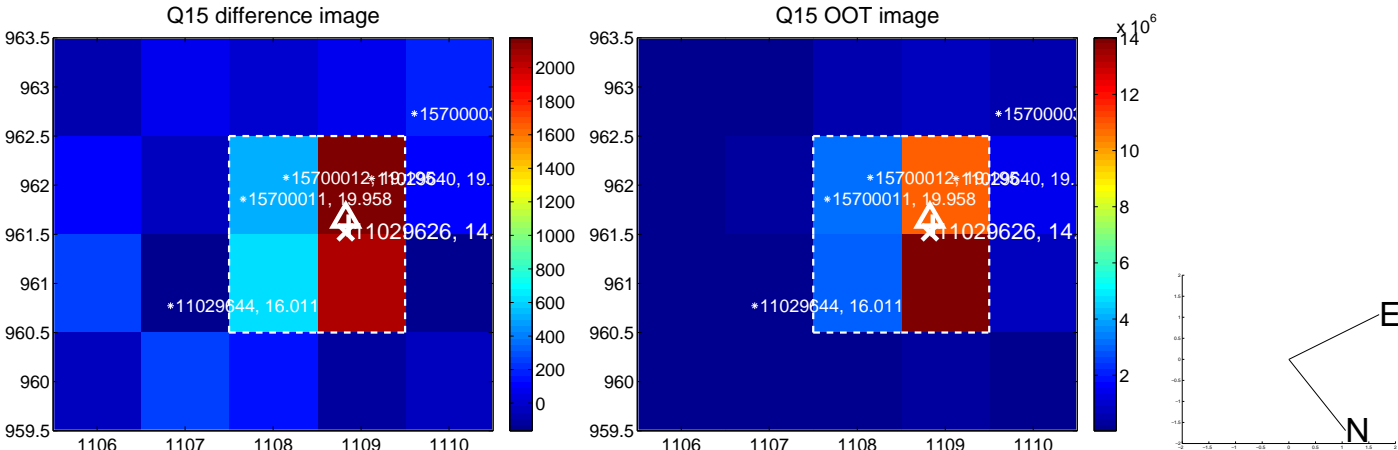
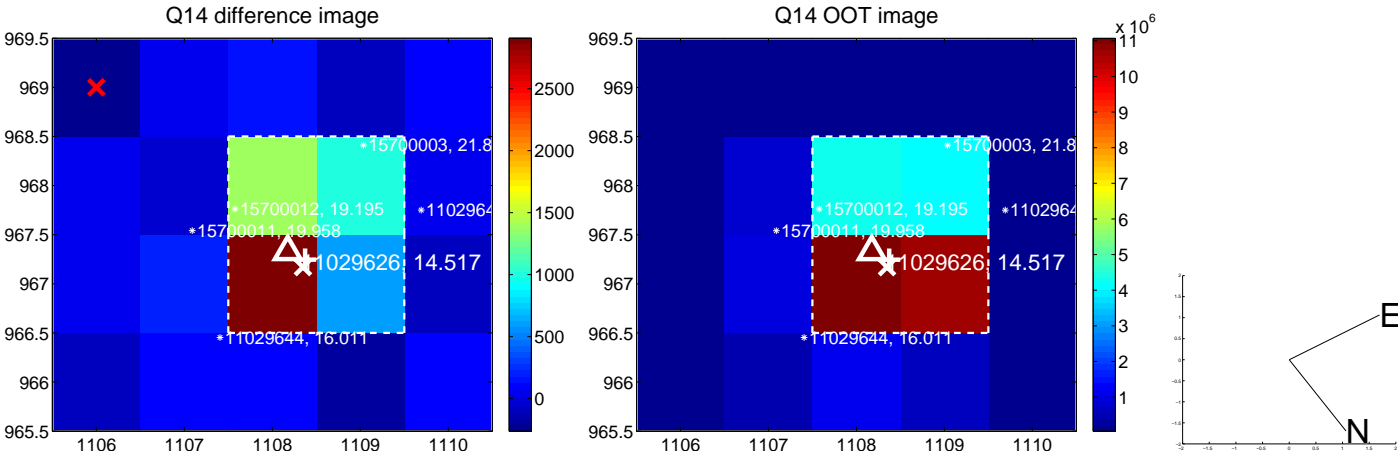
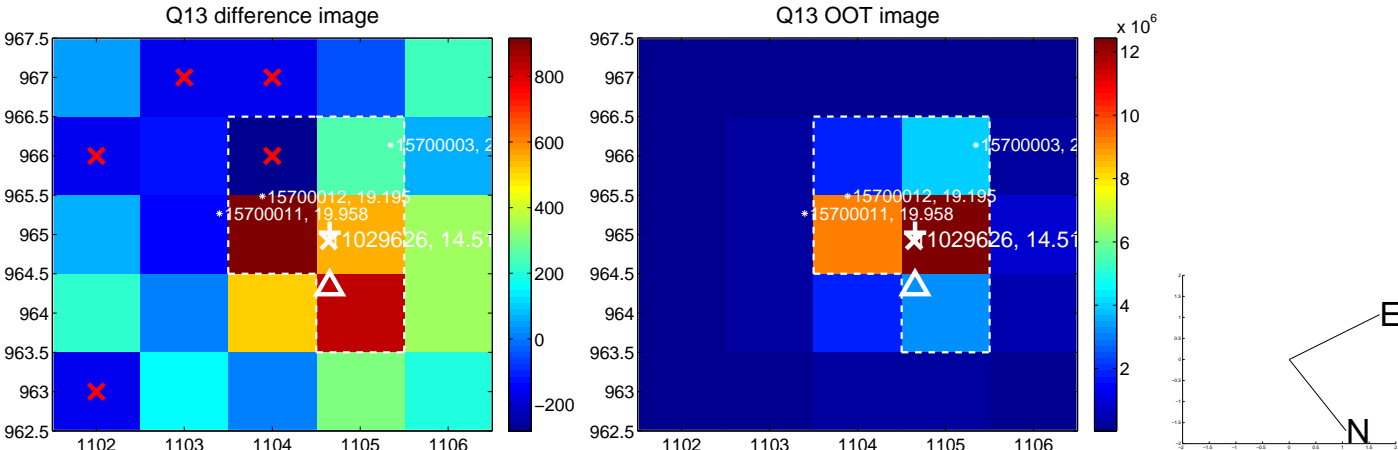
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



UKIRT Image

Declination

