

KIC 011126267

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})
011126267-01	OBS	No	367.757549	280.756683	2564.4	8.237	609.3	9.8	0.82	5677	4.12	0.66
011126267-02	OBS	No	362.266585	296.450690	19302.9	15.000	422.2	-1.0	0.82	5677	11.26	0.67
011126267-03	OBS	No	367.824514	282.167632	11132.0	15.000	225.3	-1.0	0.82	5677	8.55	0.66
011126267-04	OBS	No	374.262289	260.184459	132799.4	3.841	193.5	181.2	0.82	5677	42.44	0.64
011126267-05	OBS	No	373.560206	260.348014	45825.8	101.903	238.4	177.6	0.82	5677	24.93	0.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011126267-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—NO_FITS—INCONSISTENT_TRANS—CENT_NOFITS
011126267-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_NOFITS
011126267-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_NOFITS

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

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

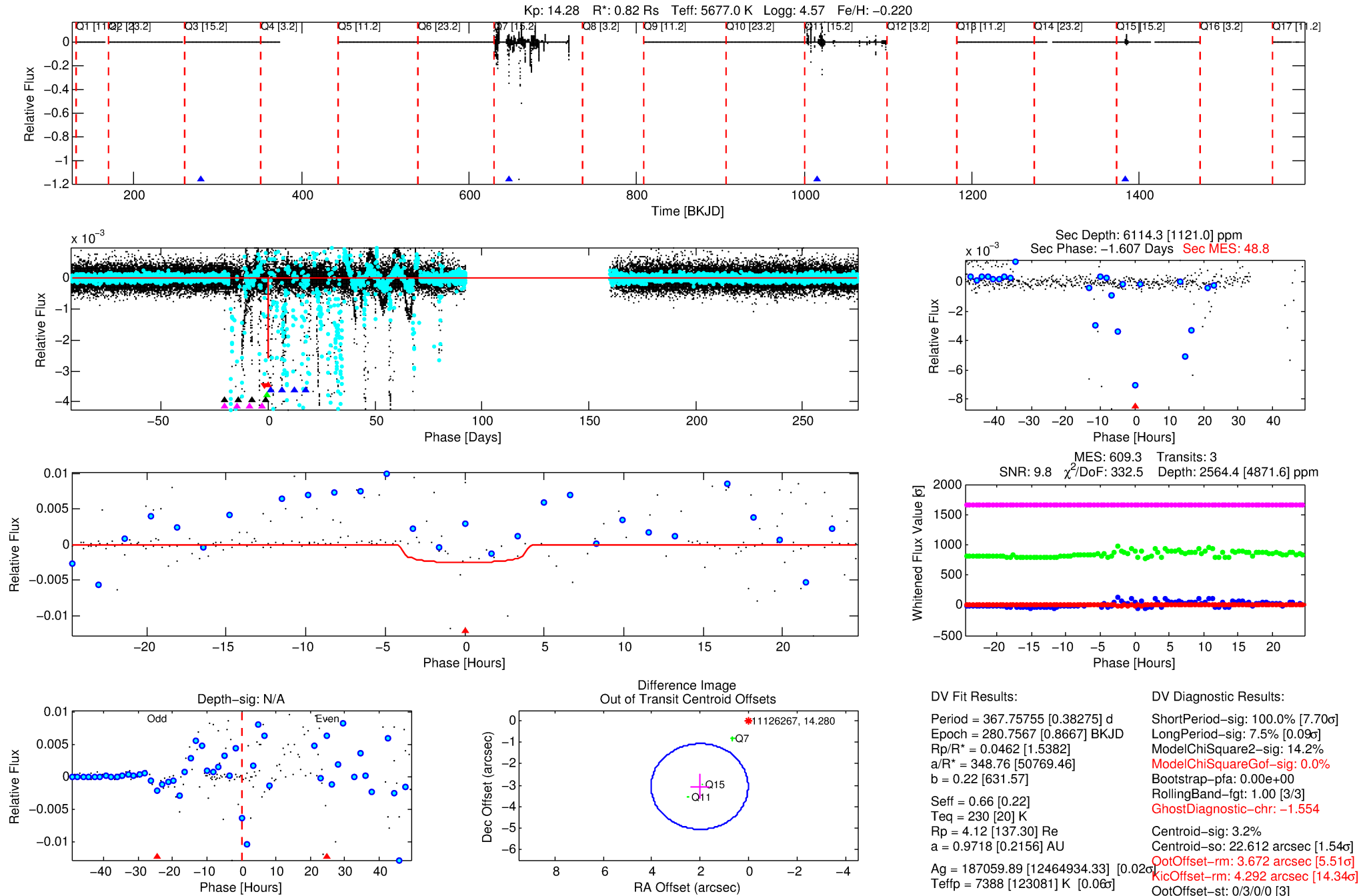
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011126267-01

No Significant Match Found

DV One-Page Summary

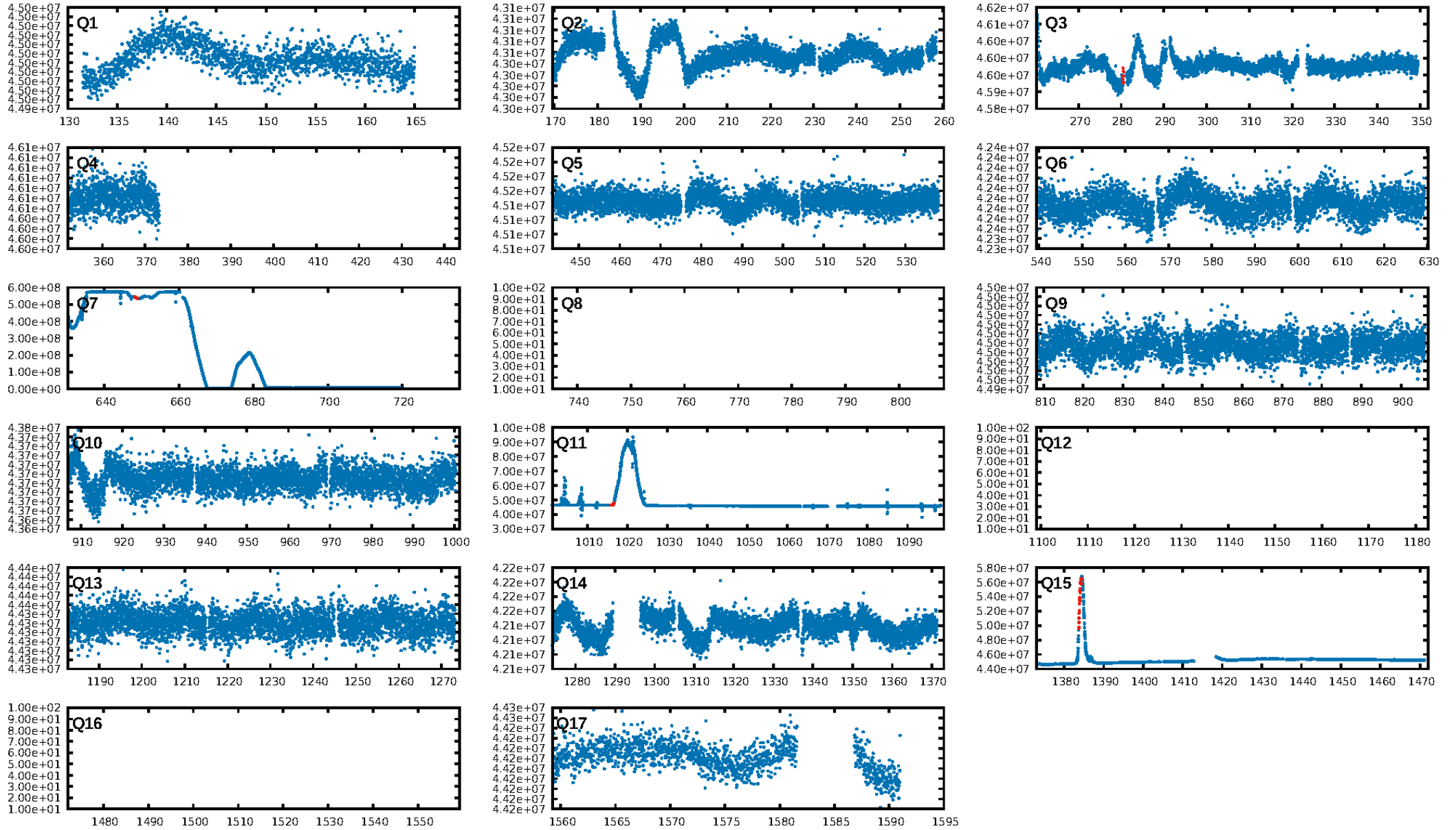
KIC: 11126267 Candidate: 1 of 5 Period: 367.758 d



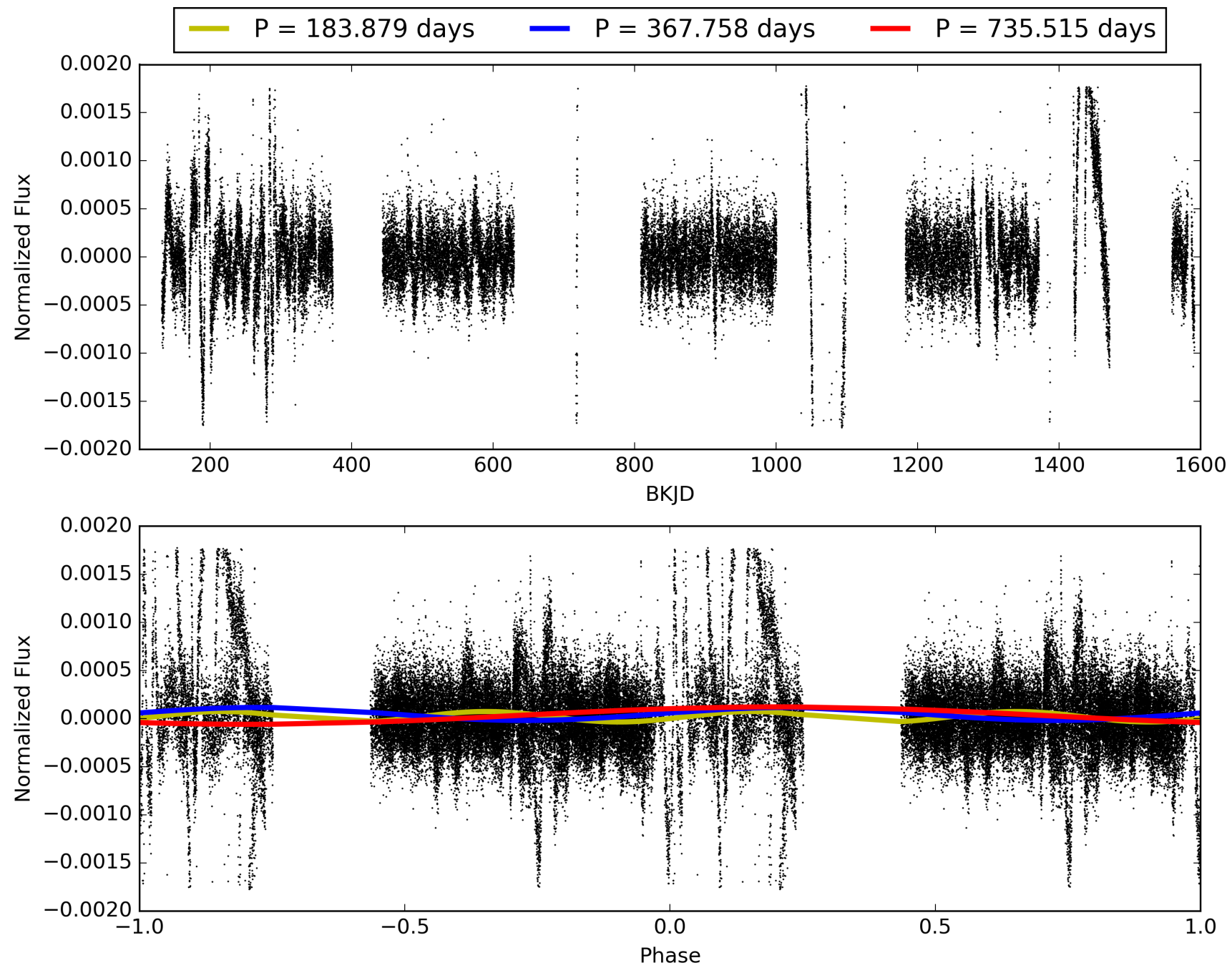
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:21:47 Z

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

TCE 011126267-01, PDC Light Curves

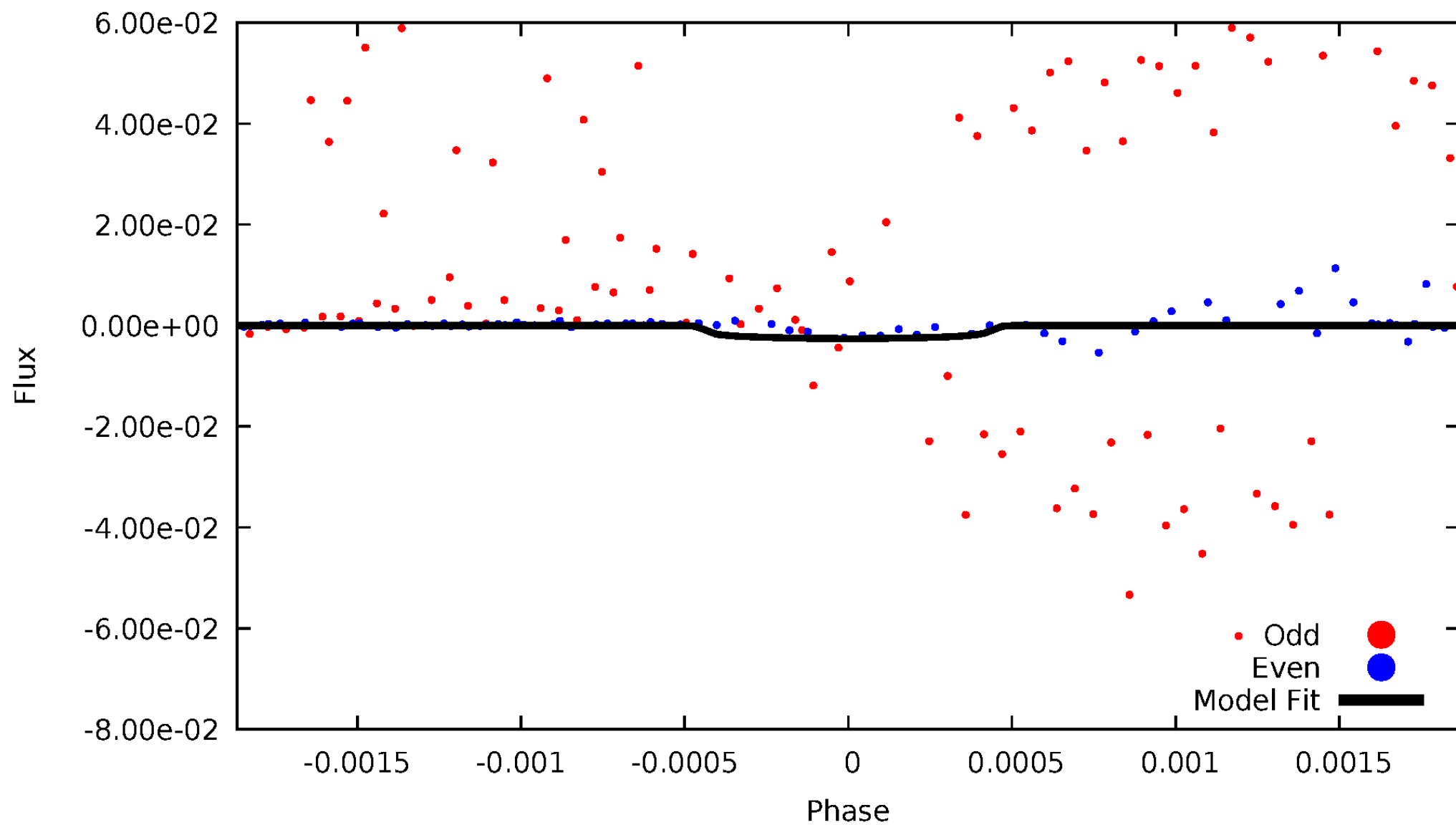


TCE 011126267-01



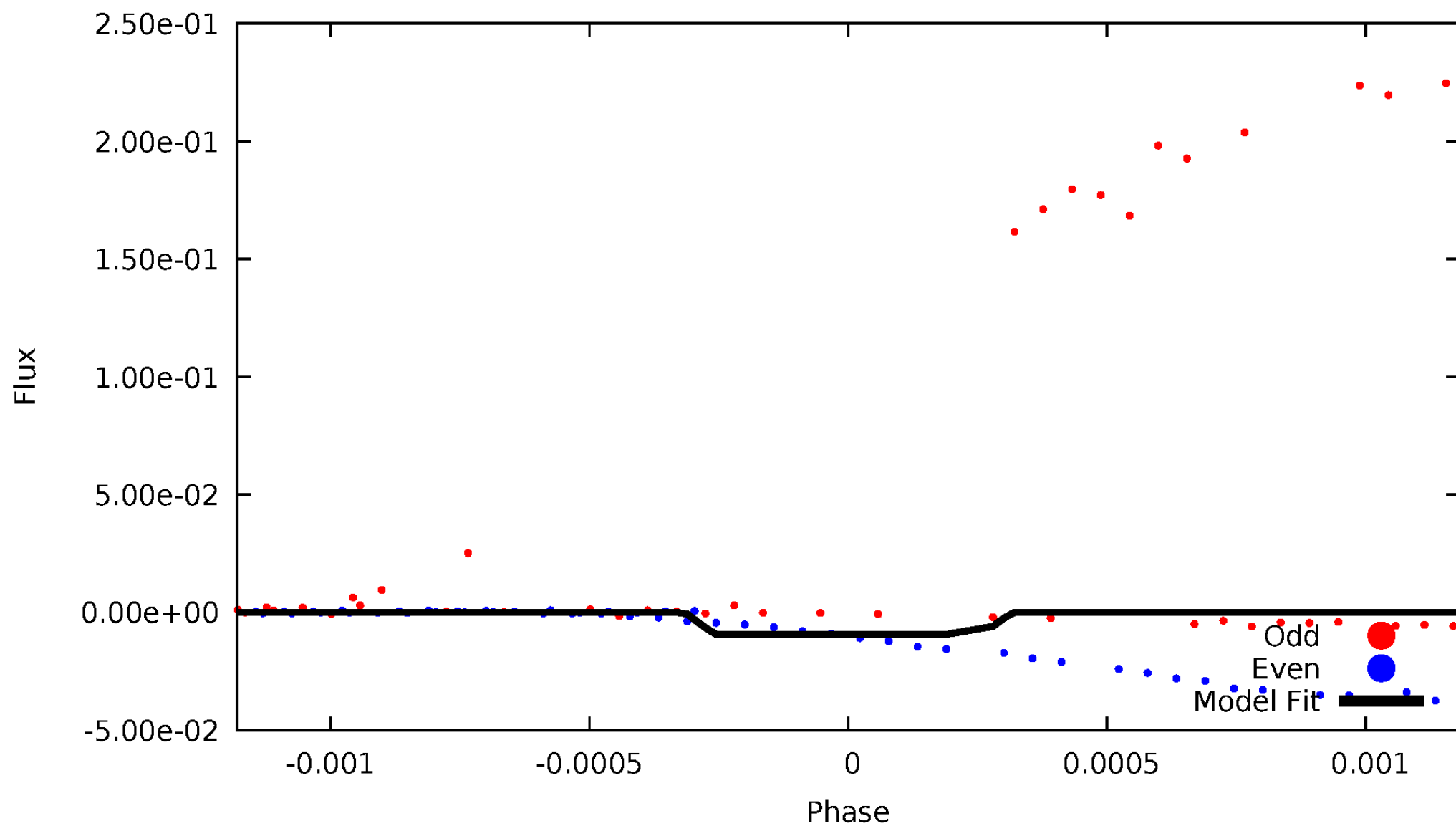
DV Odd/Even

TCE 011126267-01



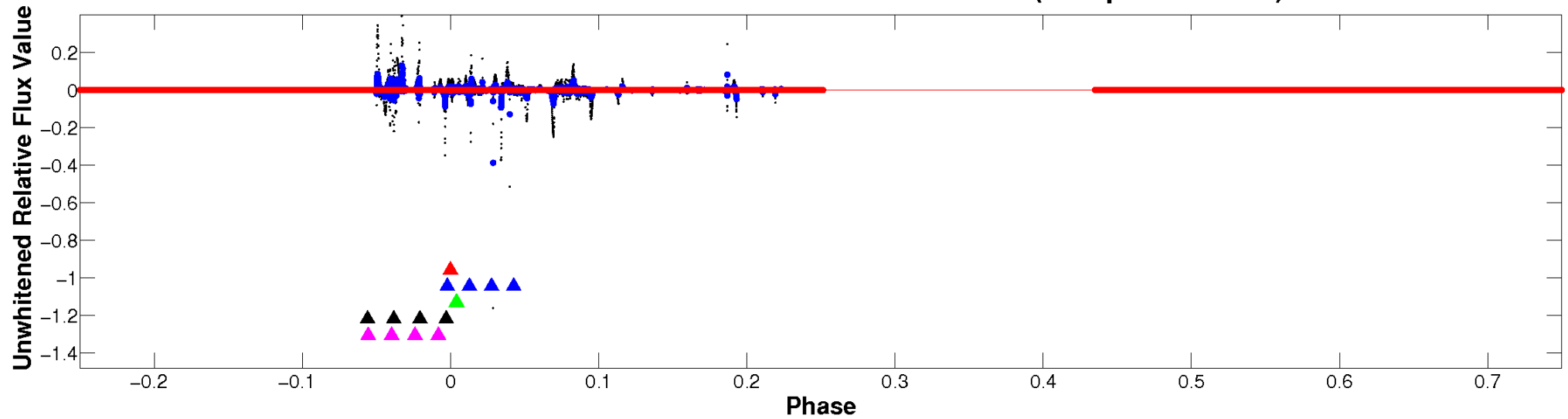
ALT Odd/Even

TCE 011126267-01

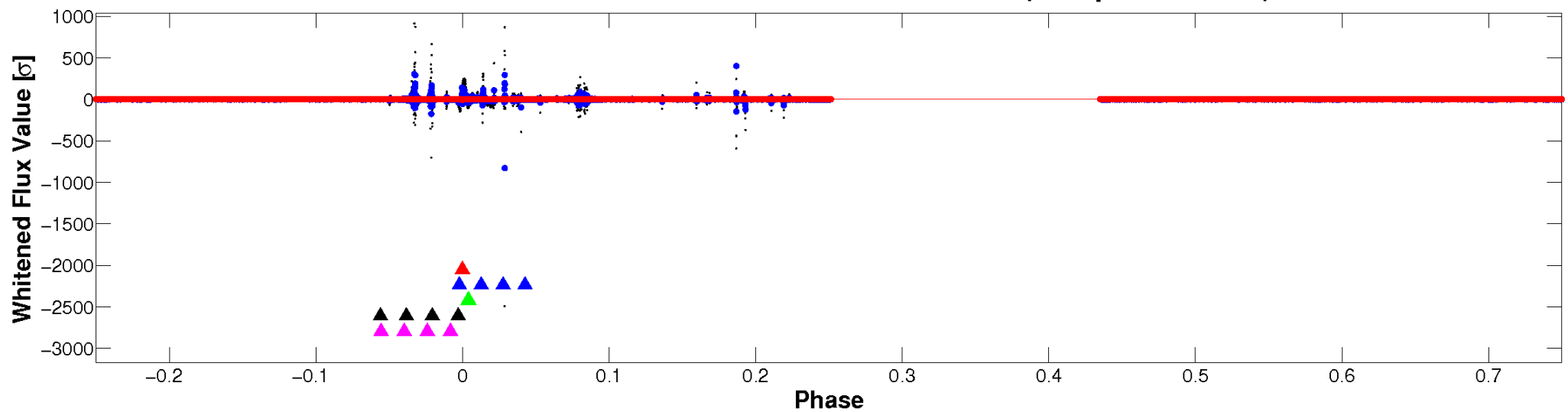


Non-Whitened Vs. Whitened Light Curve

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

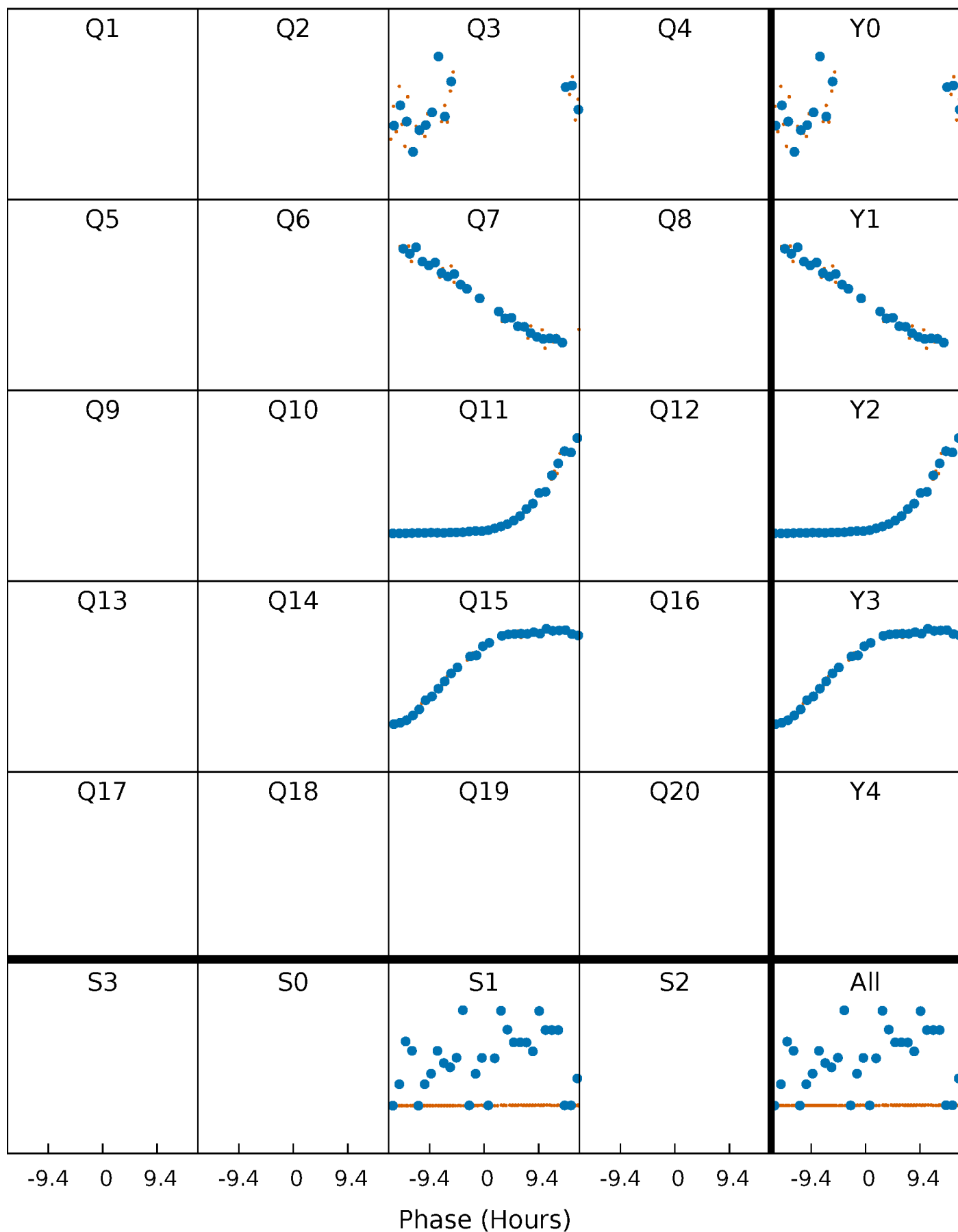


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



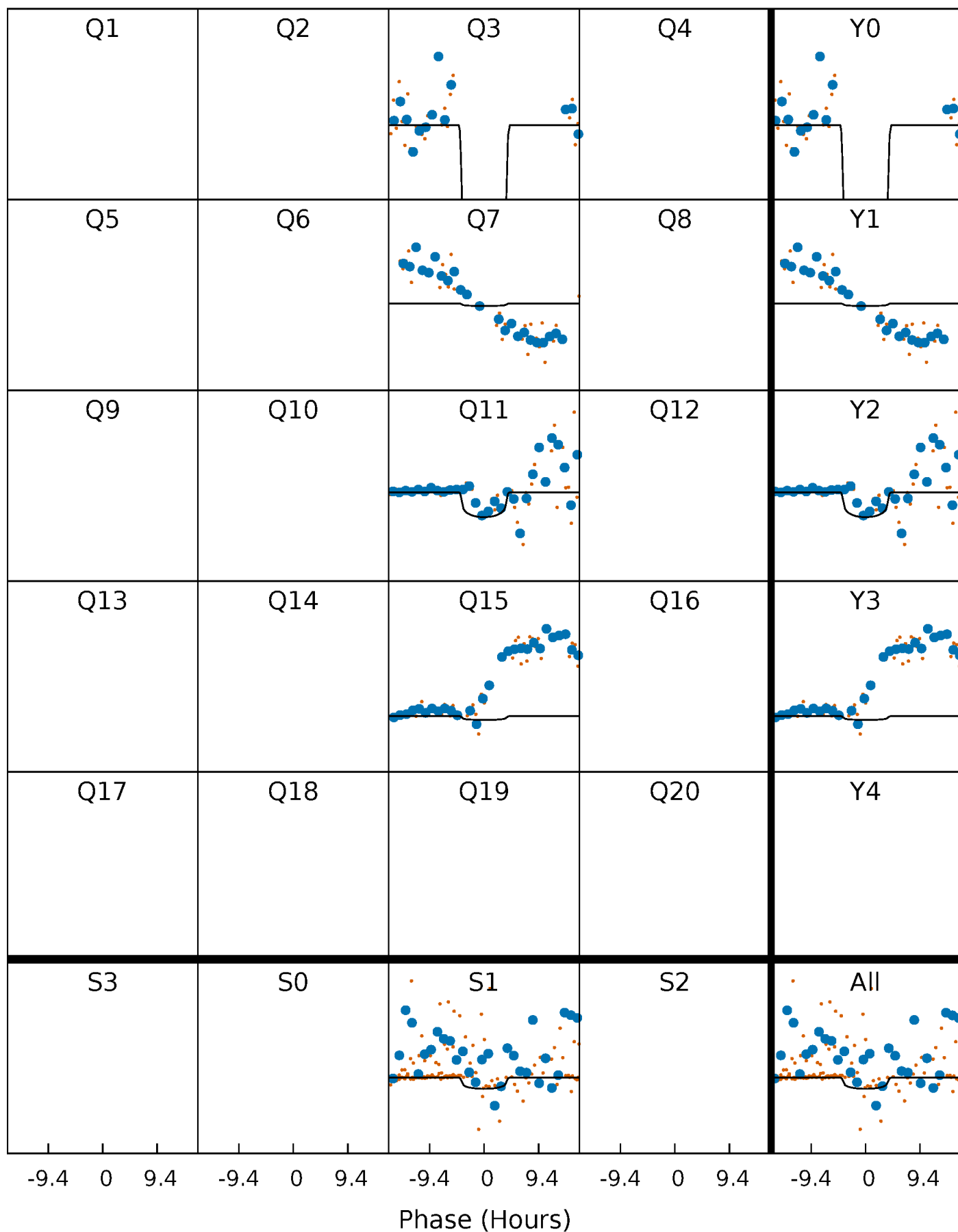
PDC Quarter-Phased Transit Curves

TCE 011126267-01 $P=367.757549$ Days $T_0=280.756683$ (BKJD)



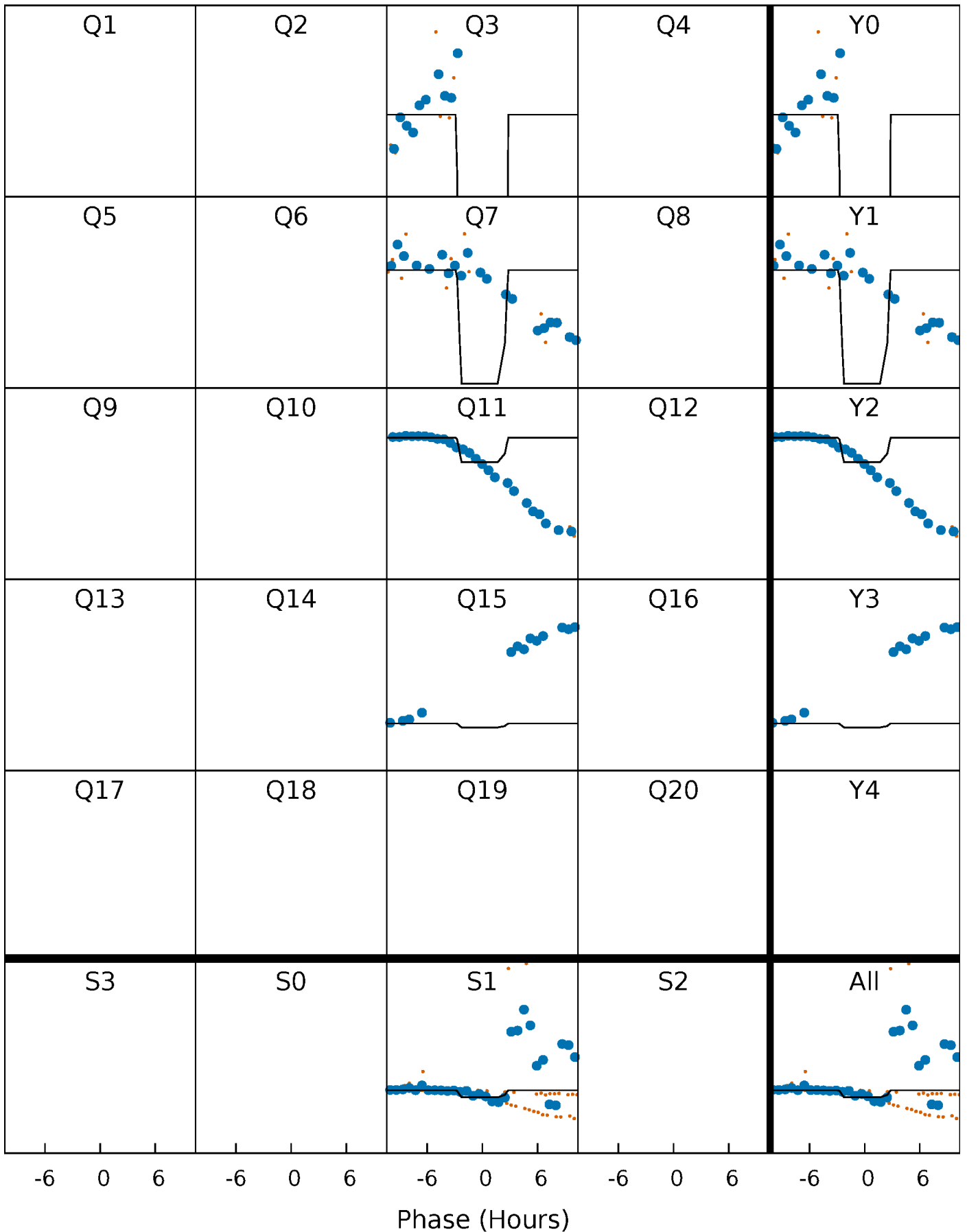
DV Quarter-Phased Transit Curves

TCE 011126267-01 P=367.757549 Days $T_0=280.756683$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

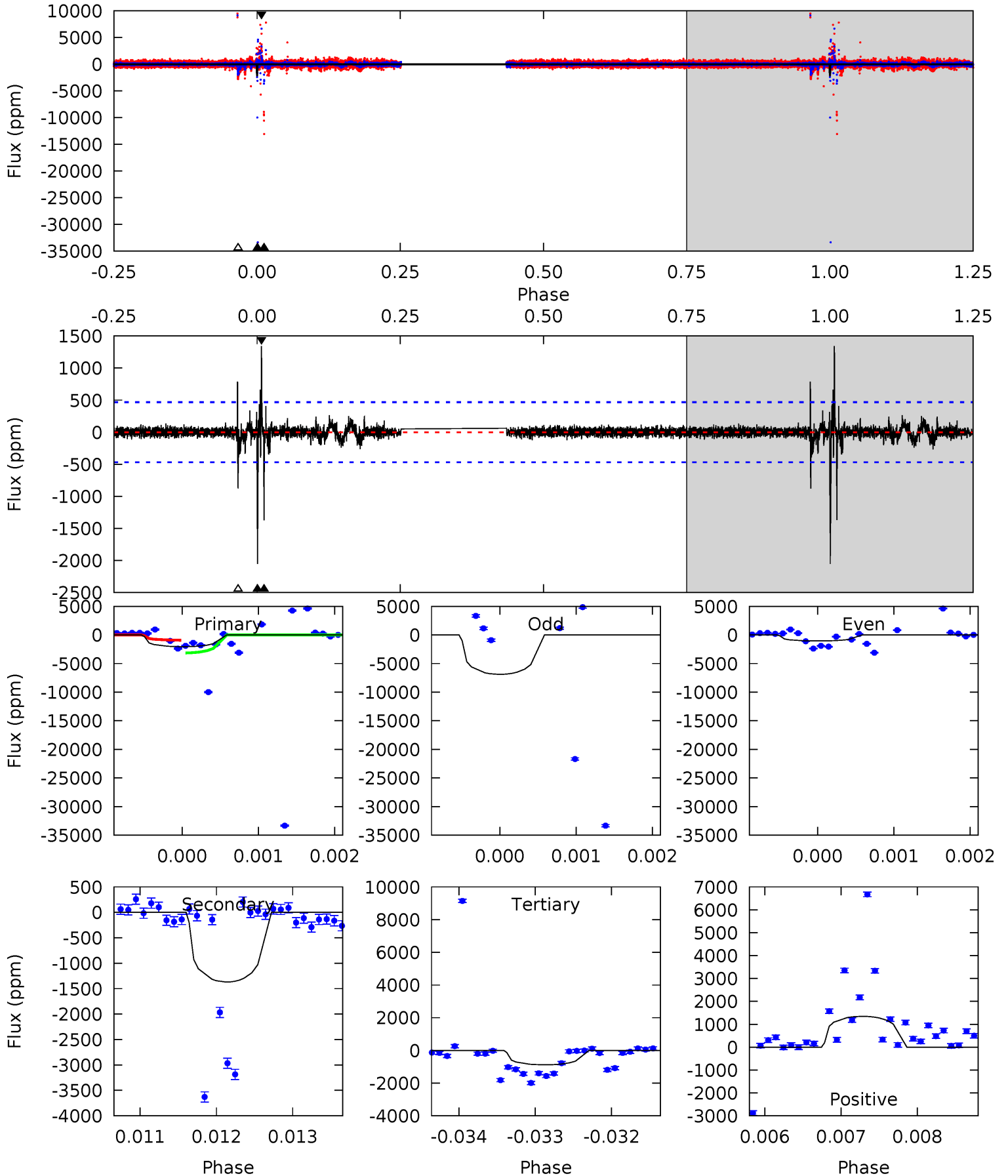
TCE 011126267-01 P=367.715535 Days $T_0=280.643854$ (BKJD)



DV Model-Shift Uniqueness Test

011126267-01, P = 367.757549 Days, E = 280.756683 Days

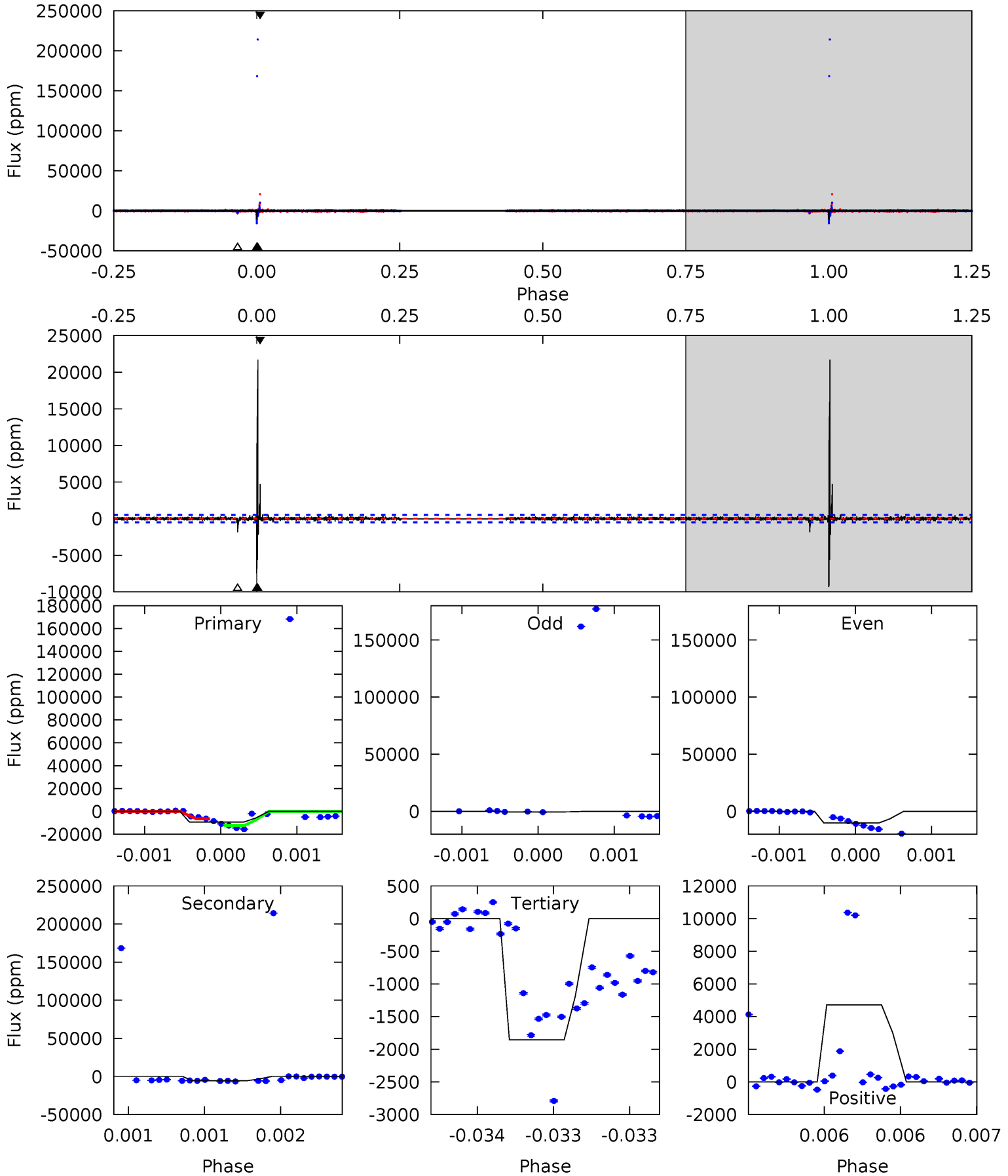
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
23.9	15.9	10.2	15.7	5.46	3.31	0.73	13.7	8.26	5.72	0.28	2.11	0.83	0.40	12.1



Alt Model-Shift Uniqueness Test

011126267-01, P = 367.715535 Days, E = 280.643854 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
101.3	61.5	20.2	51.4	5.54	3.42	1.88	81.1	49.9	41.2	10.1	0.35	1.00	0.70	0



Stellar Parameters For KIC 011126267

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5677^{+152}_{-152}	$4.569^{+0.033}_{-0.176}$	$-0.220^{+0.300}_{-0.300}$	$0.818^{+0.216}_{-0.072}$	$0.913^{+0.092}_{-0.102}$	$2.347^{+0.417}_{-1.133}$
	+3%/-3%	+1%/-4%	+136%/-136%	+26%/-9%	+10%/-11%	+18%/-48%
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 011126267-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1367 ± 86	$103.16^{+108.79}_{-73.05}$	329^{+19}_{-13}	2037^{+647}_{-275}	67^{+713}_{-52}
Alt.	-5640 ± 92	$98.72^{+118.13}_{-71.38}$	330^{+18}_{-14}	2408^{+1019}_{-383}	295^{+3613}_{-233}

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

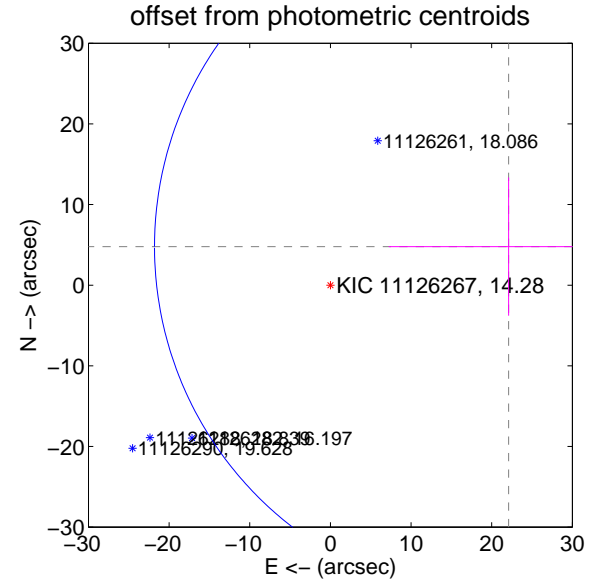
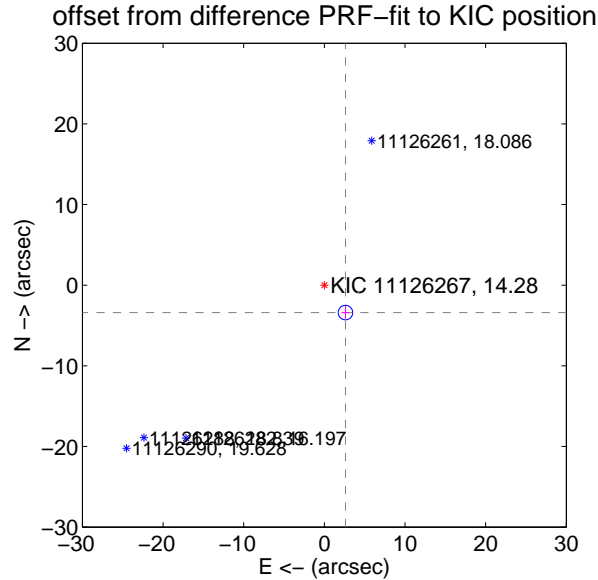
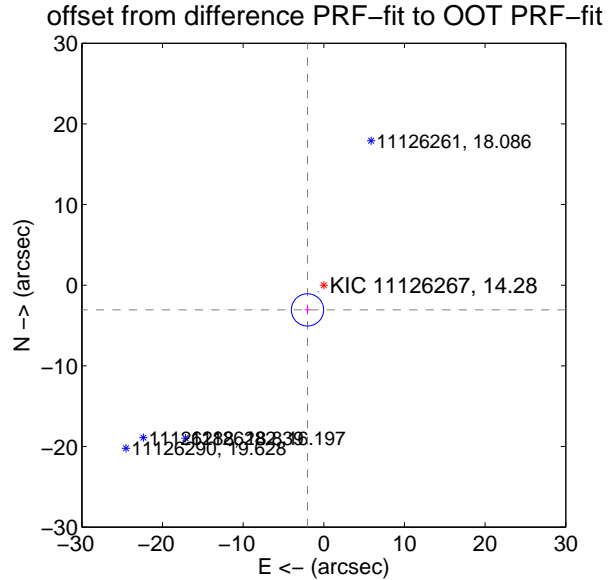
DV Centroid Data

Supplemental centroid analysis for 011126267-01. Kepler magnitude: 14.28. Transit SNR 9.78

There are 1 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 4.61 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.672 ± 0.667	5.51	2.022 ± 0.362	-3.065 ± 0.565
PRF-fit source offset from KIC position	4.292 ± 0.299	14.34	-2.619 ± 0.502	-3.401 ± 0.754
photometric centroid source offset	22.61 ± 14.64	1.54	-22.10 ± 14.86	4.78 ± 8.57

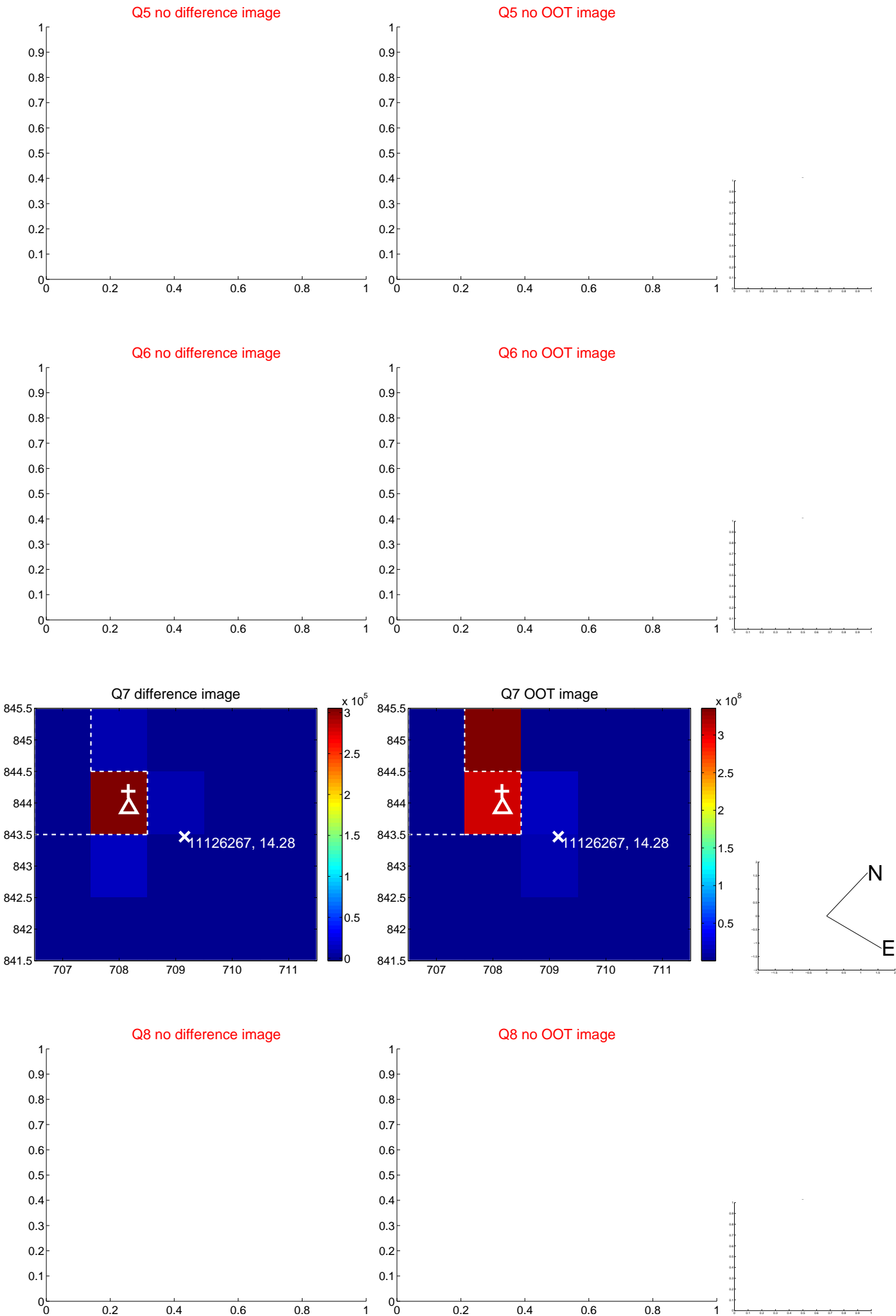


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

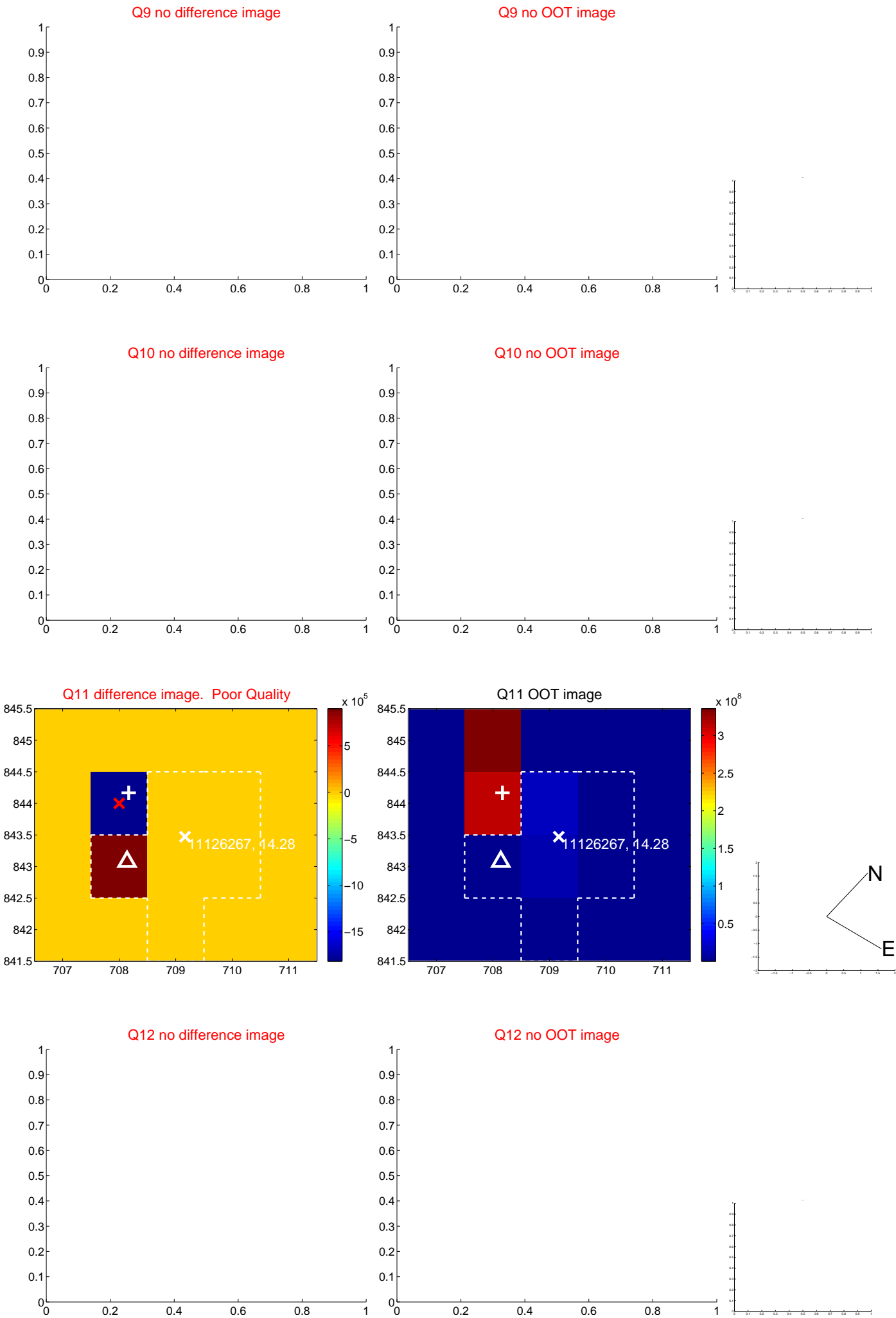
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



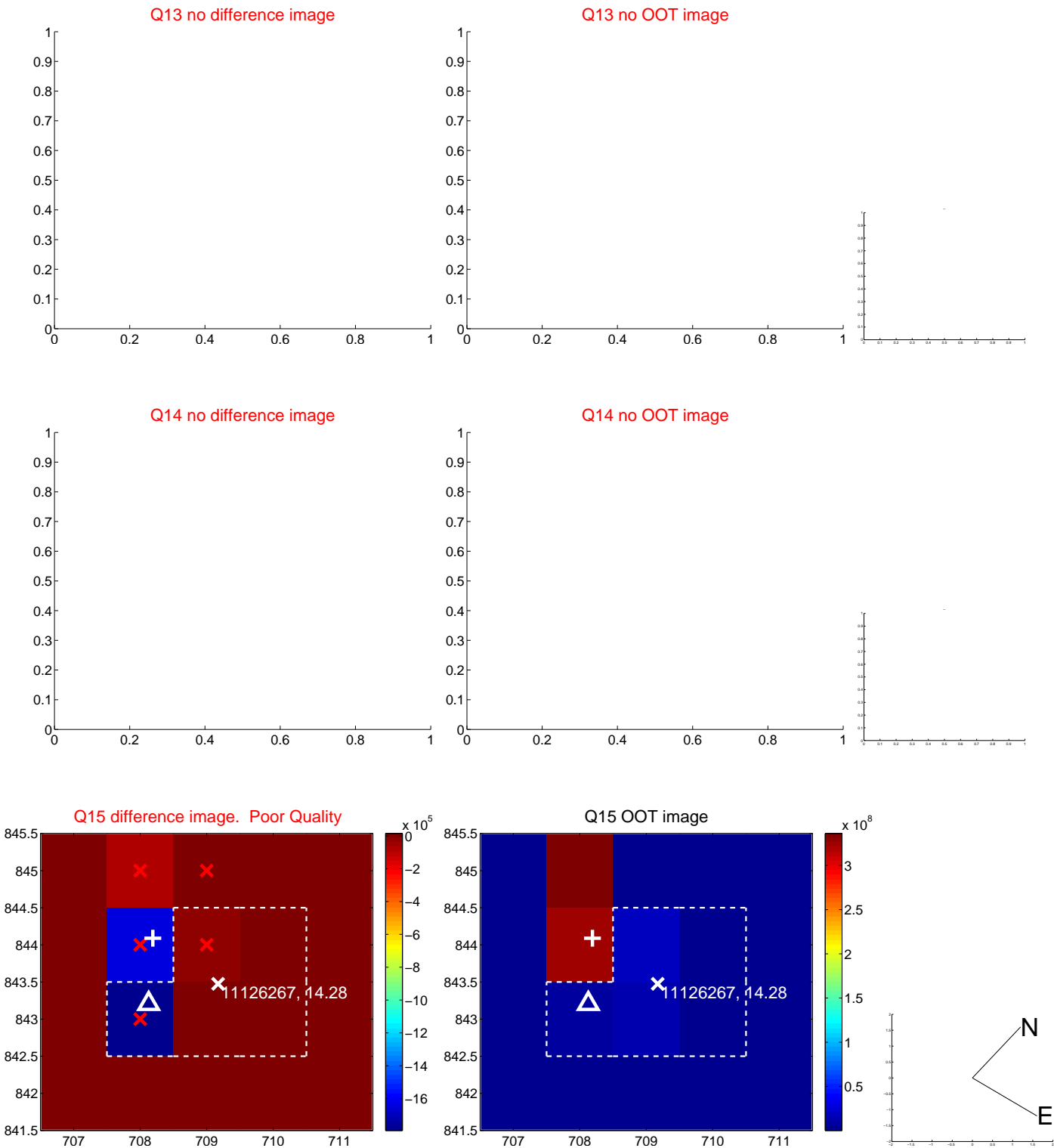
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



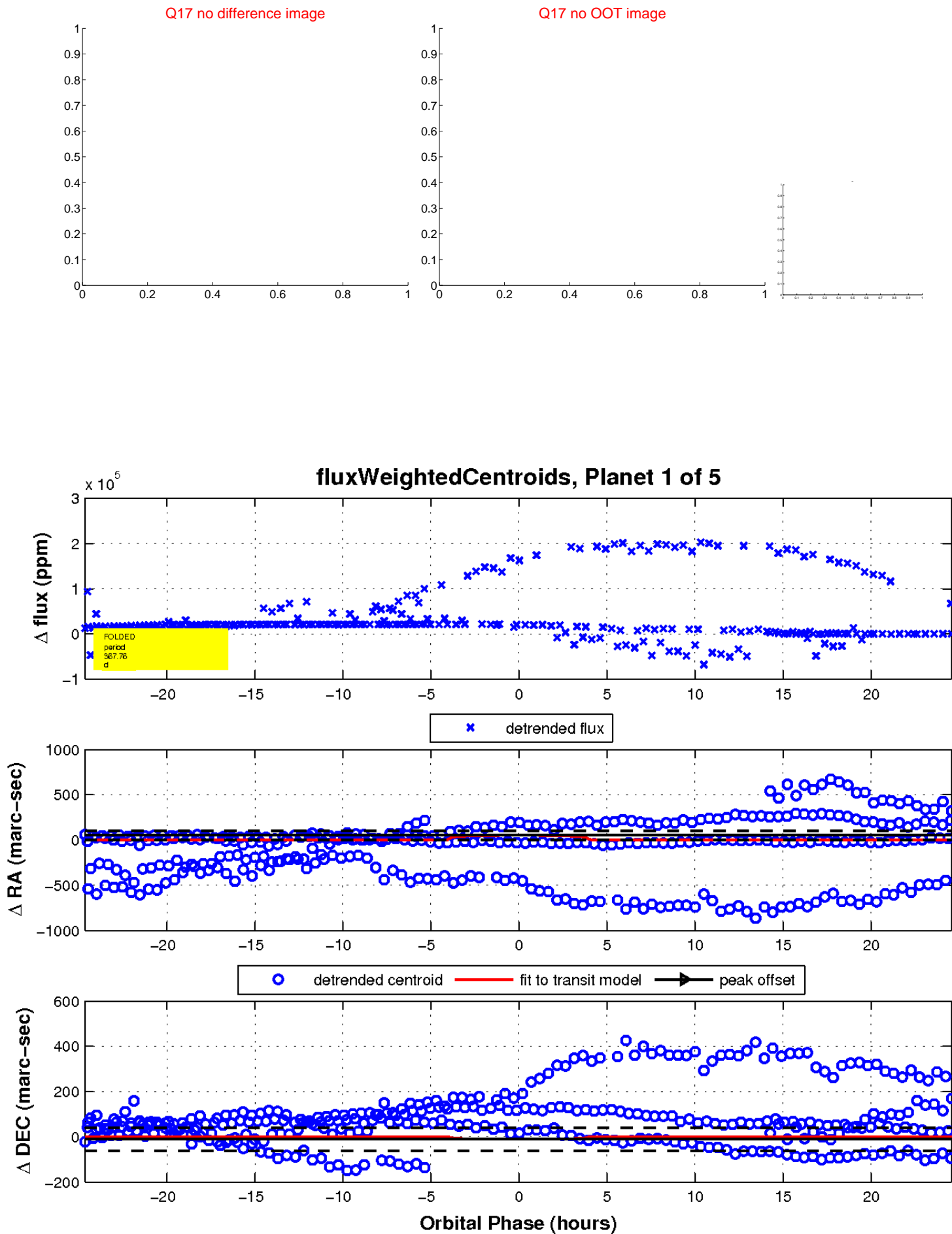
white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.



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

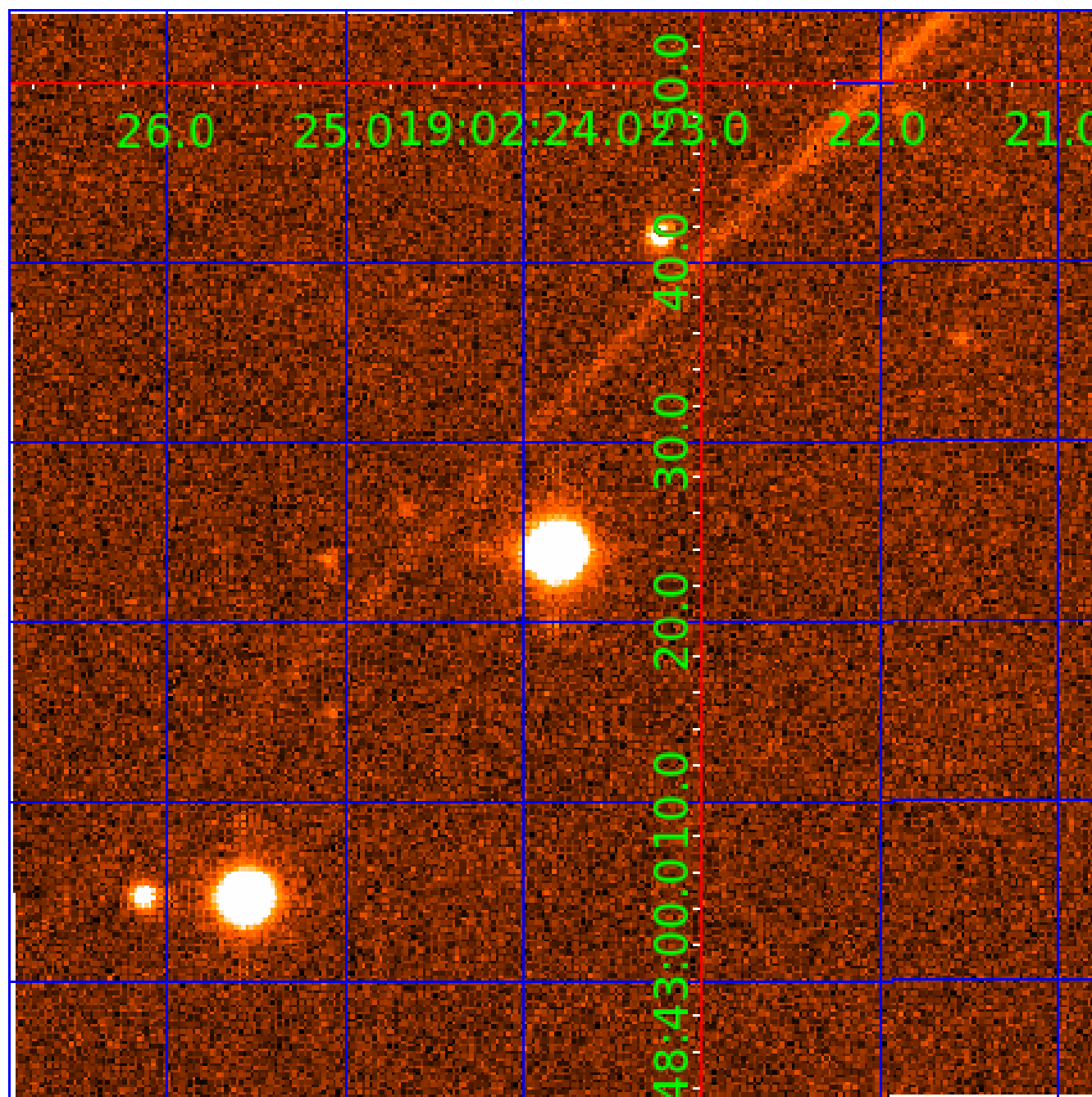


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011126267

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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011126267-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—NO_FITS—INCONSISTENT_TRANS—CENT_NOFITS
011126267-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_NOFITS
011126267-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_NOFITS

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

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

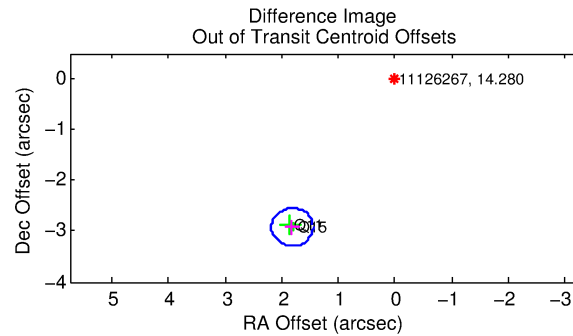
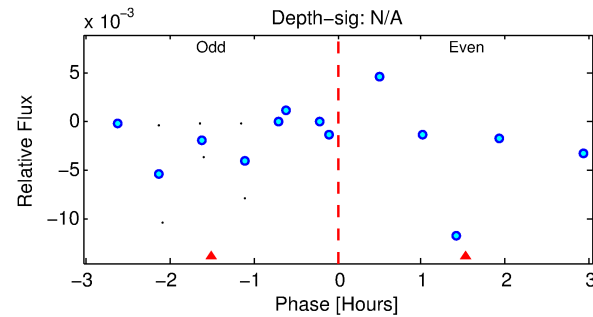
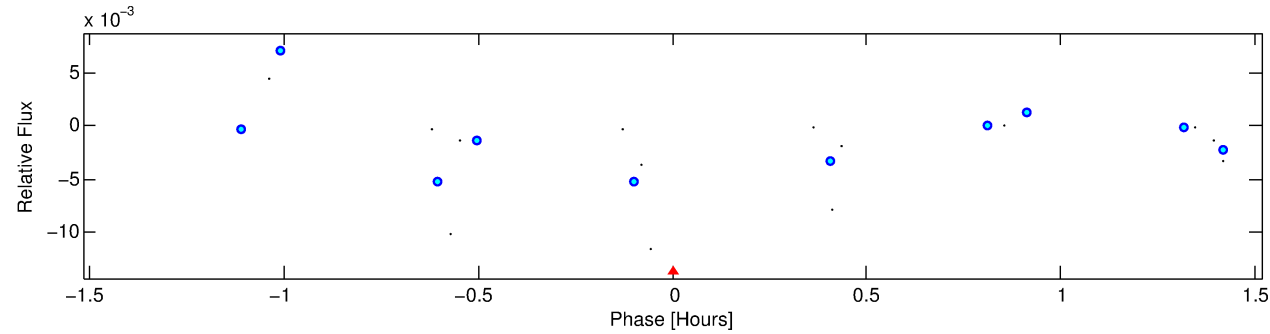
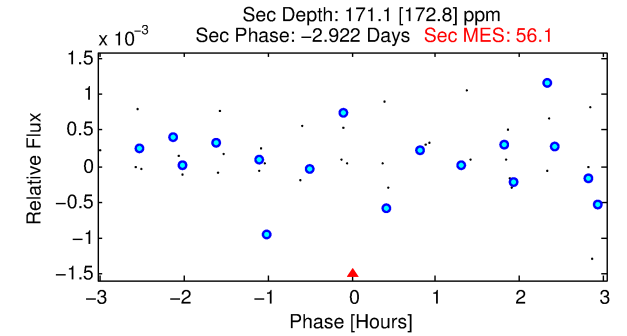
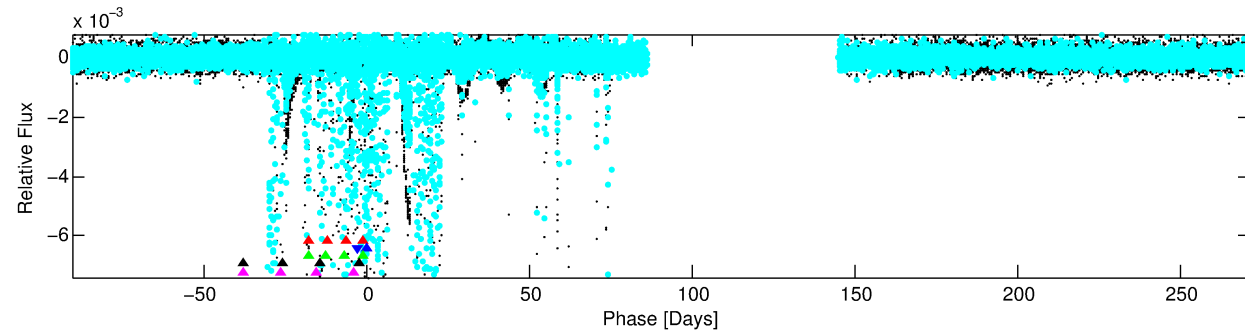
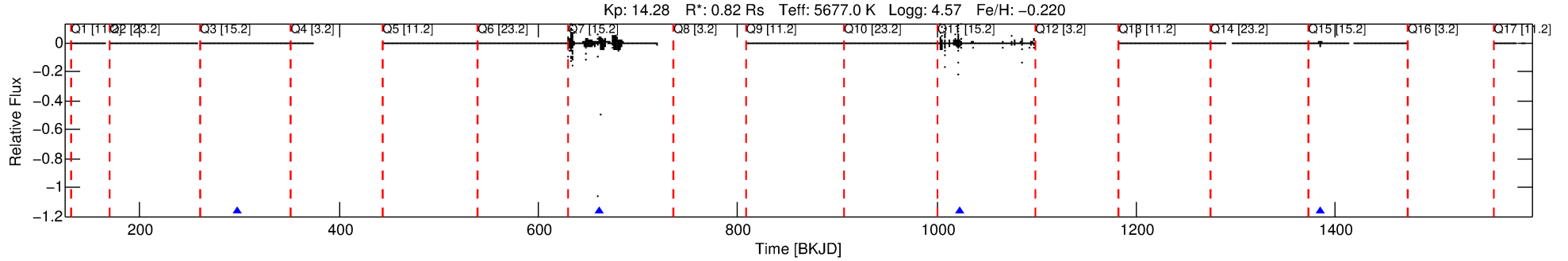
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011126267-02

No Significant Match Found

DV One-Page Summary

KIC: 11126267 Candidate: 2 of 5 Period: 362.267 d



TPS TCE Results:

Period = 362.26659 d
Epoch = 296.4507 BKJD

DV fit results are unavailable

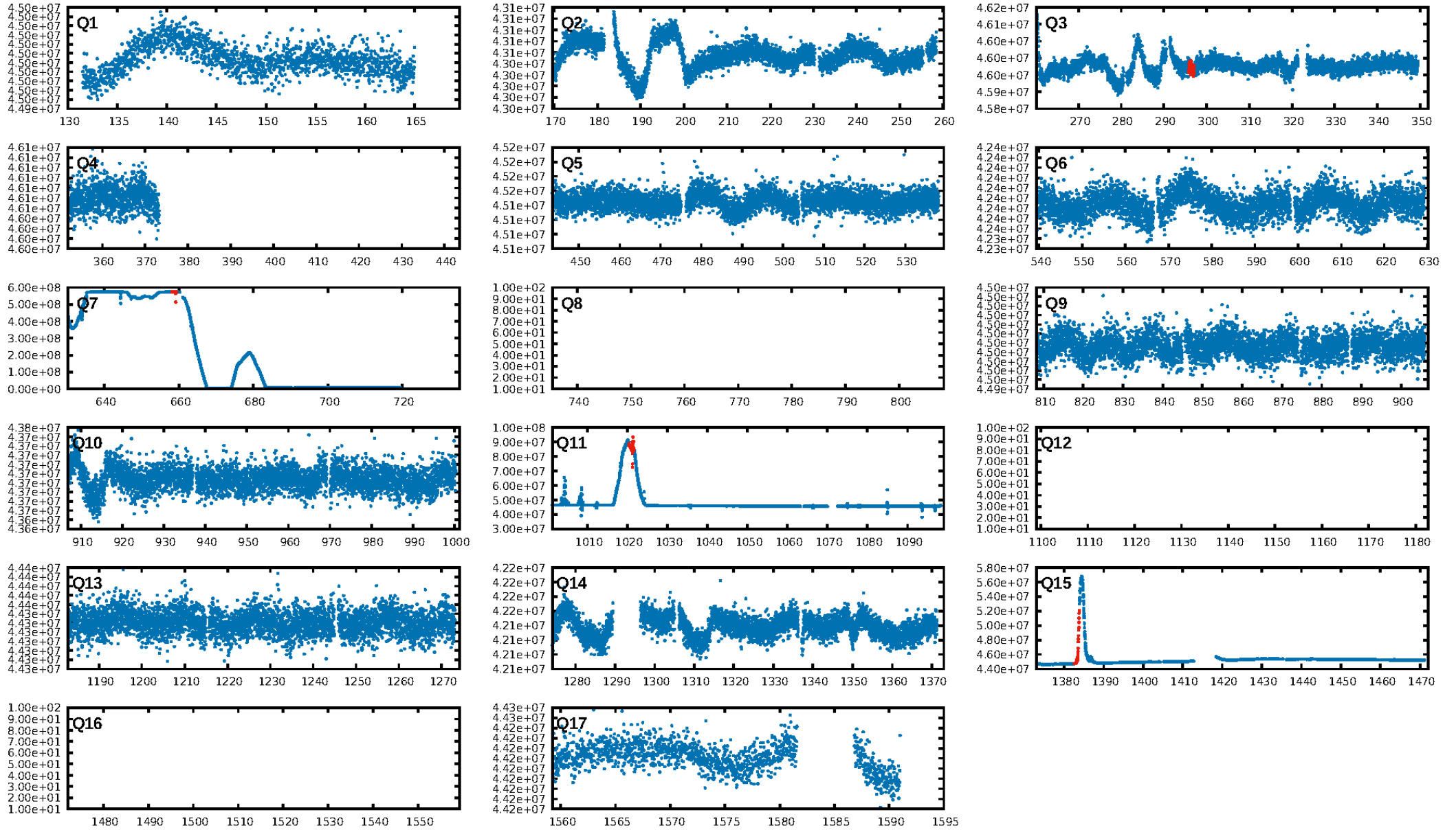
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [7.70σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 5.16e-308
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.412
Centroid-sig: 19.5%
Centroid-so: 11.631 arcsec [1.81σ]
OotOffset-rm: 3.436 arcsec [27.82σ]
KicOffset-rm: 4.299 arcsec [34.79σ]
OotOffset-st: 0/2/0/0 [2]
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DiffImageQuality-fgm: 0.50 [1/2]
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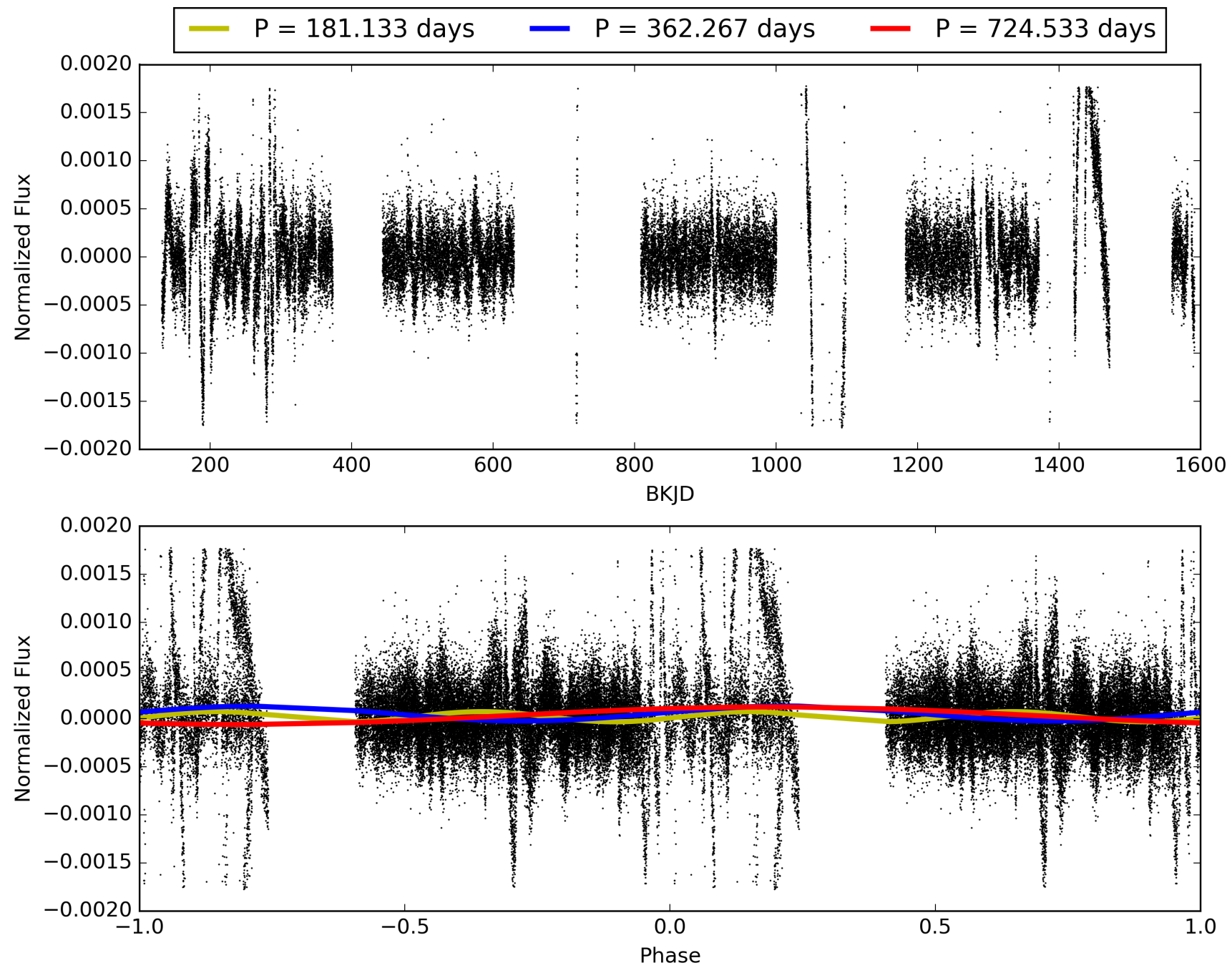
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:22:46 Z

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

TCE 011126267-02, PDC Light Curves

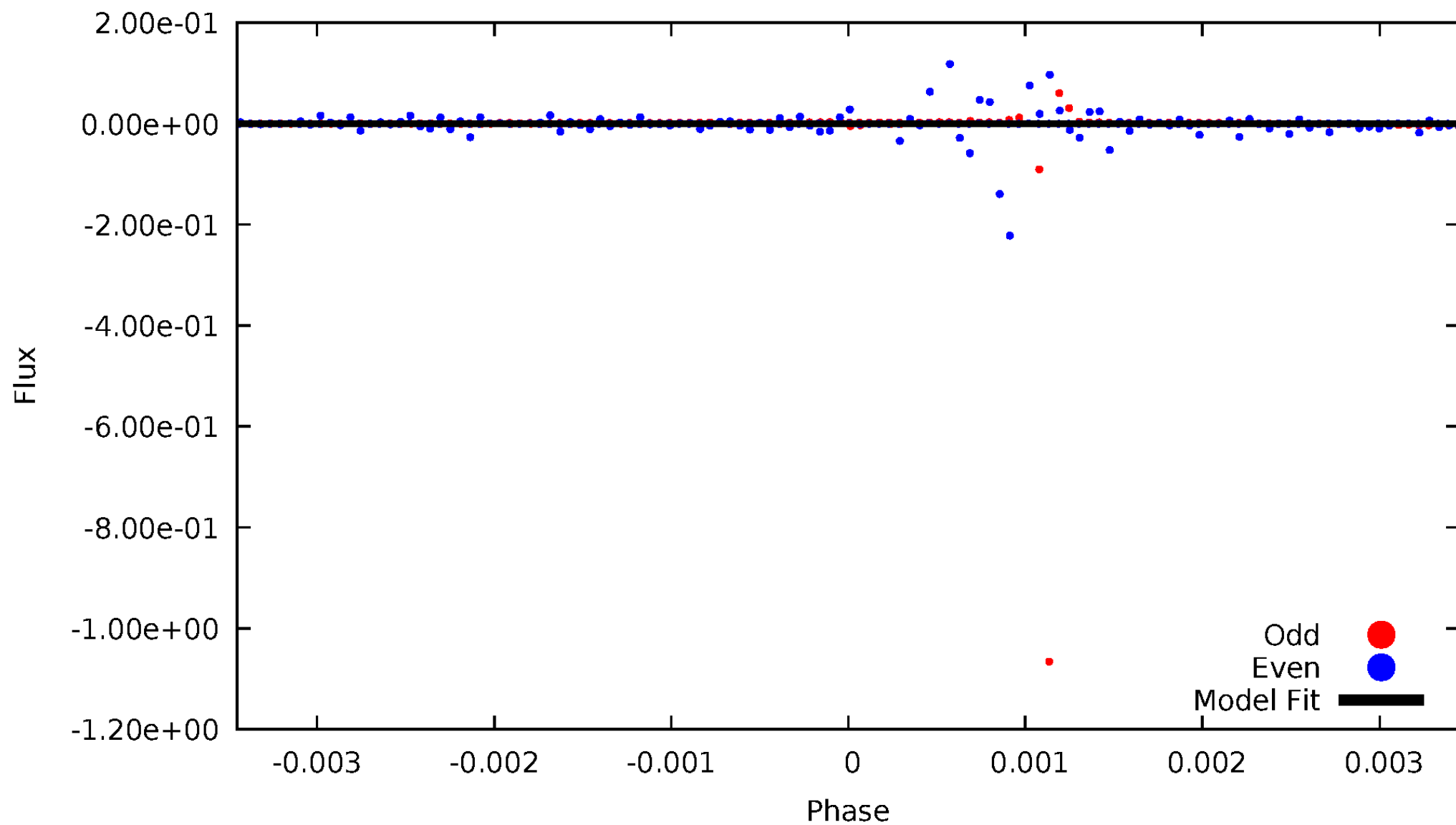


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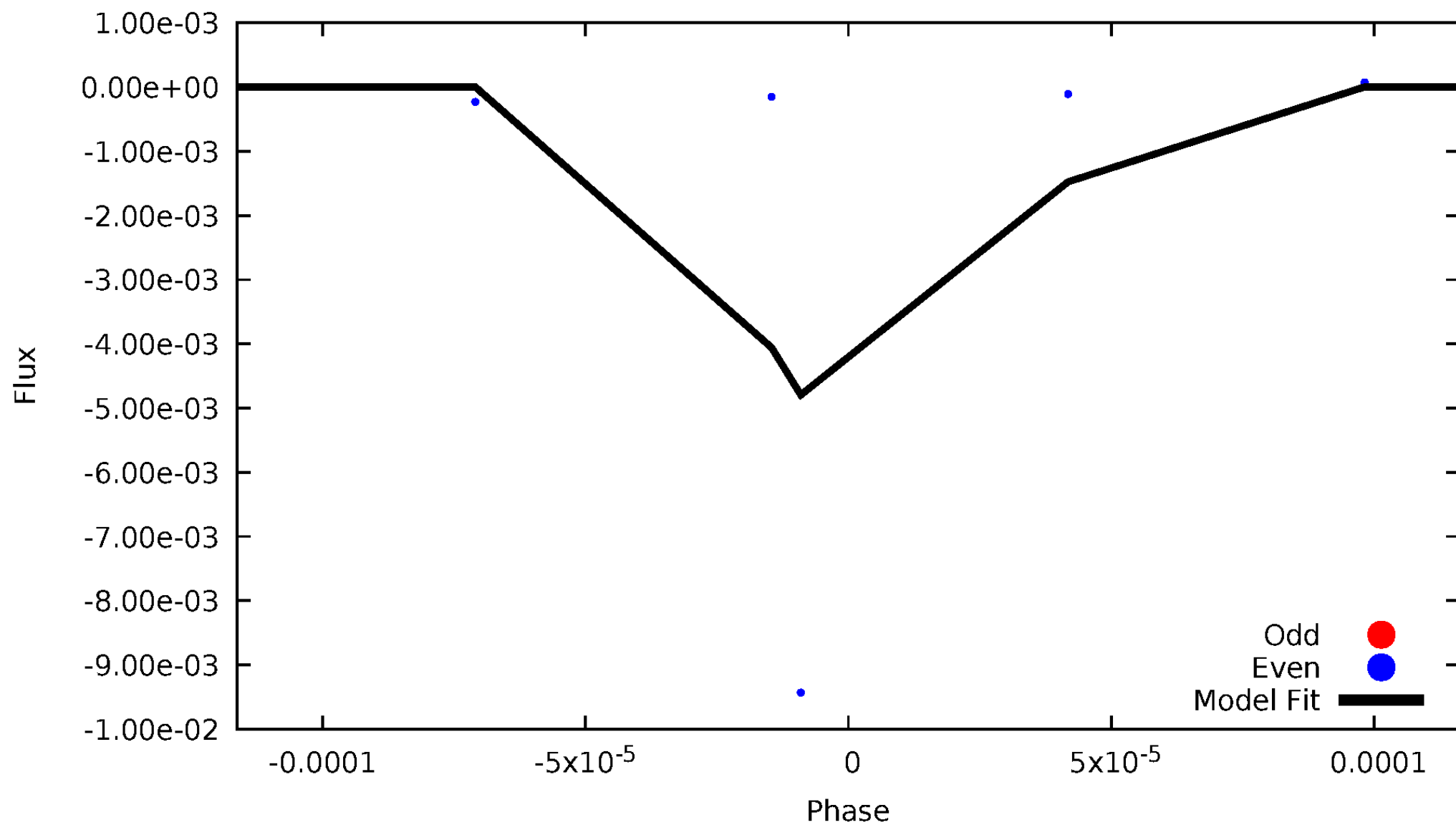
DV Odd/Even

TCE 011126267-02



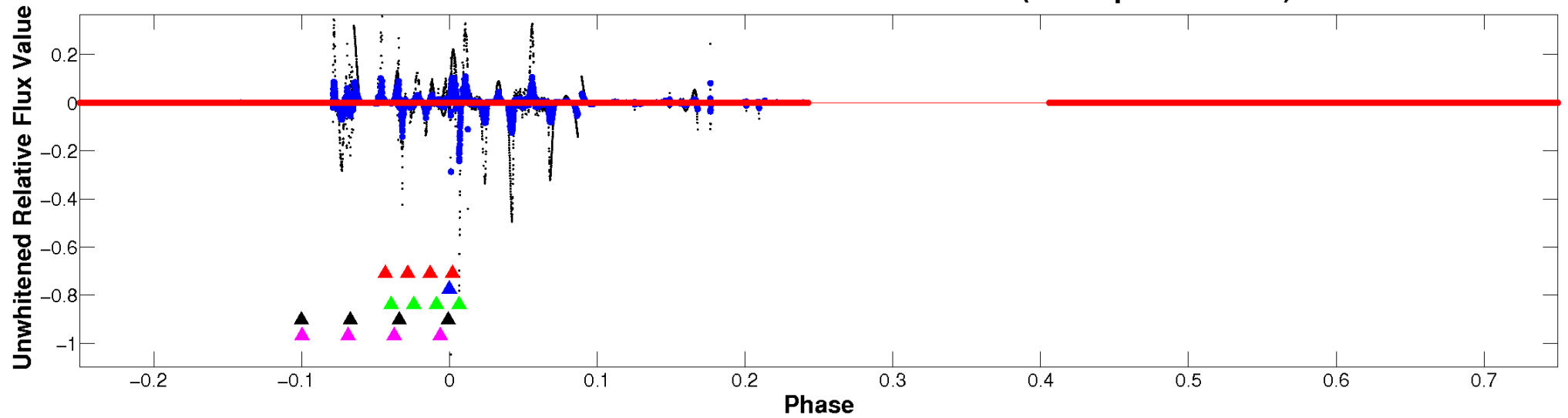
ALT Odd/Even

TCE 011126267-02



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)



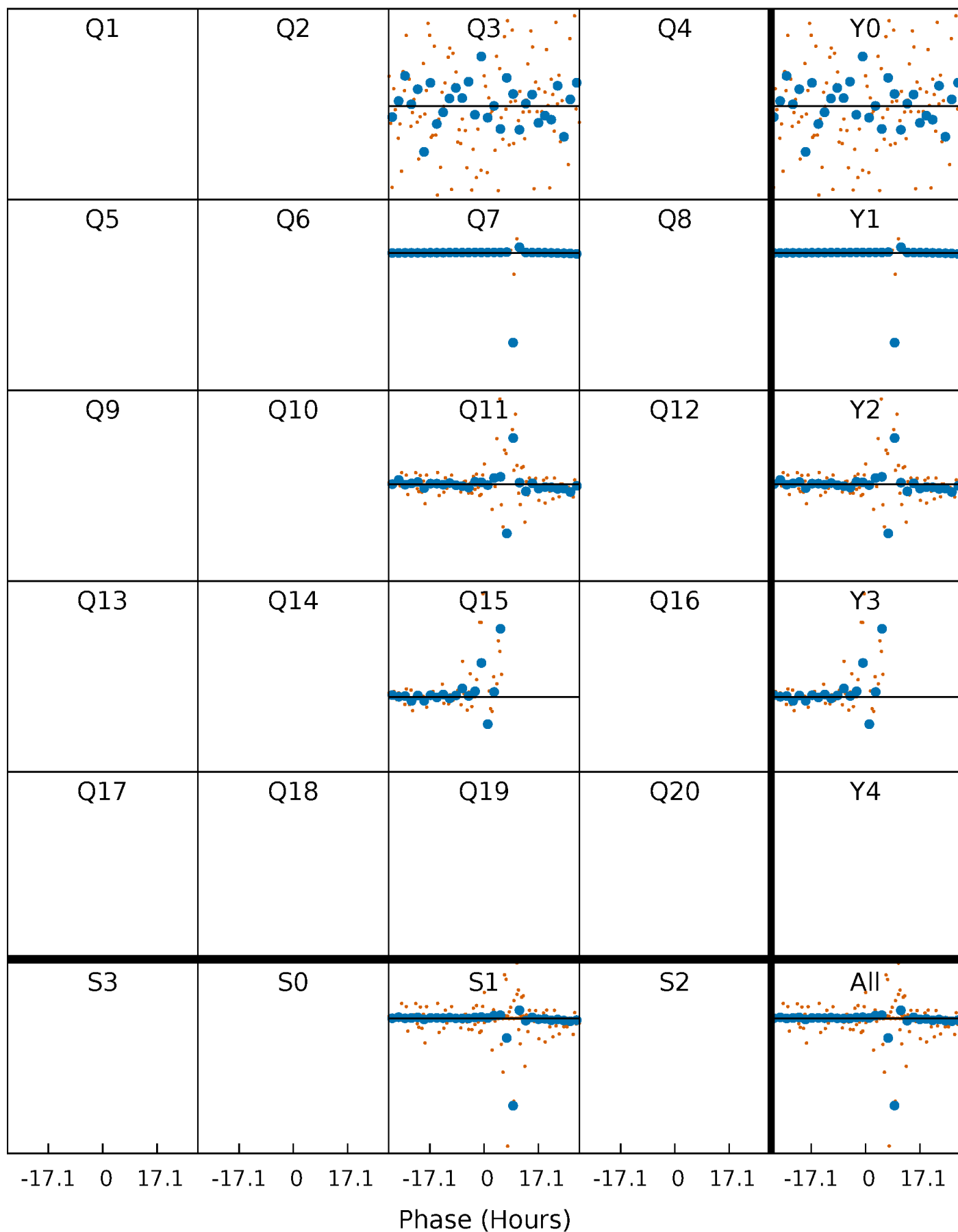
PDC Quarter-Phased Transit Curves

TCE 011126267-02 $P=362.266585$ Days $T_0=296.450690$ (BKJD)



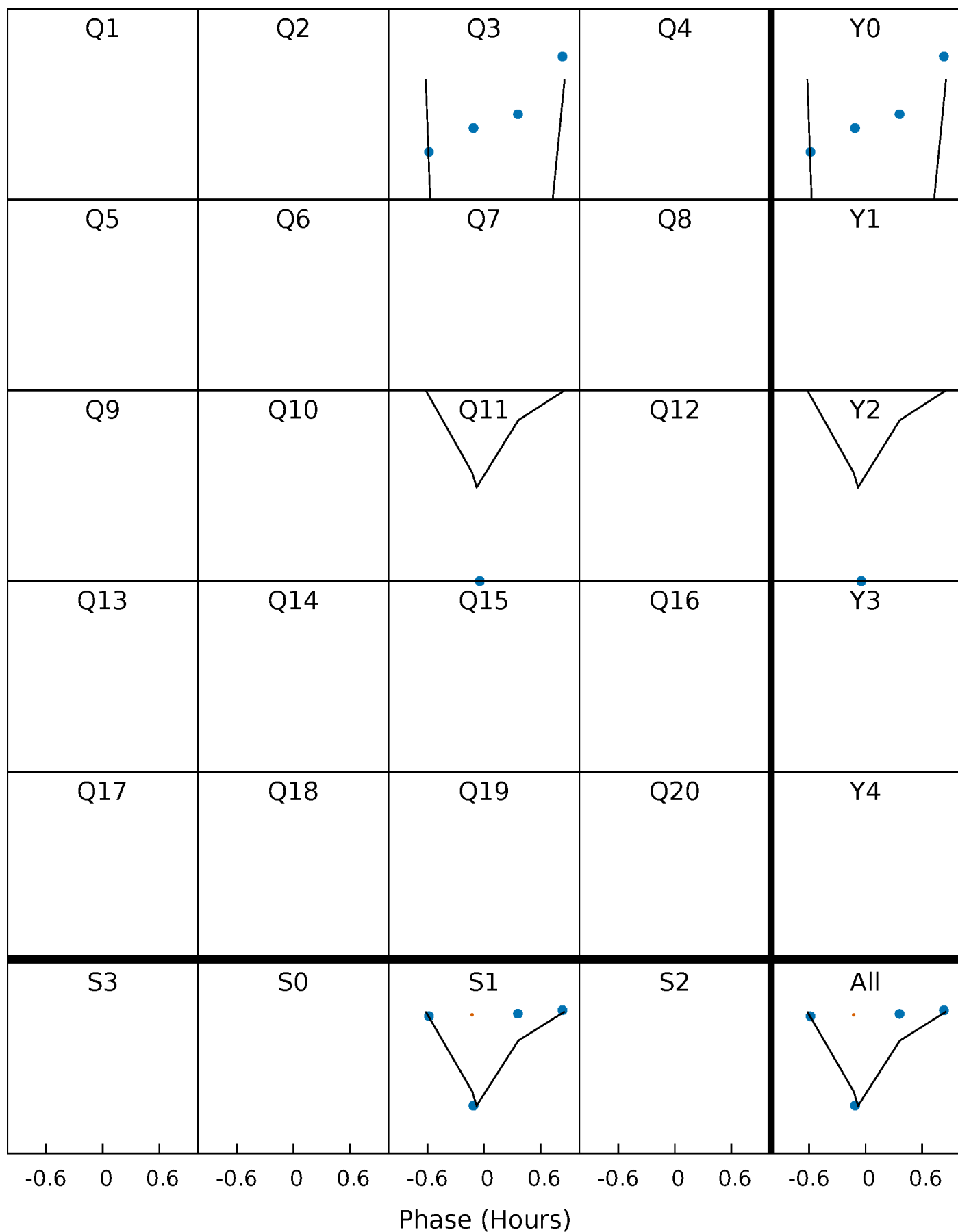
DV Quarter-Phased Transit Curves

TCE 011126267-02 $P=362.266585$ Days $T_0=296.450690$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

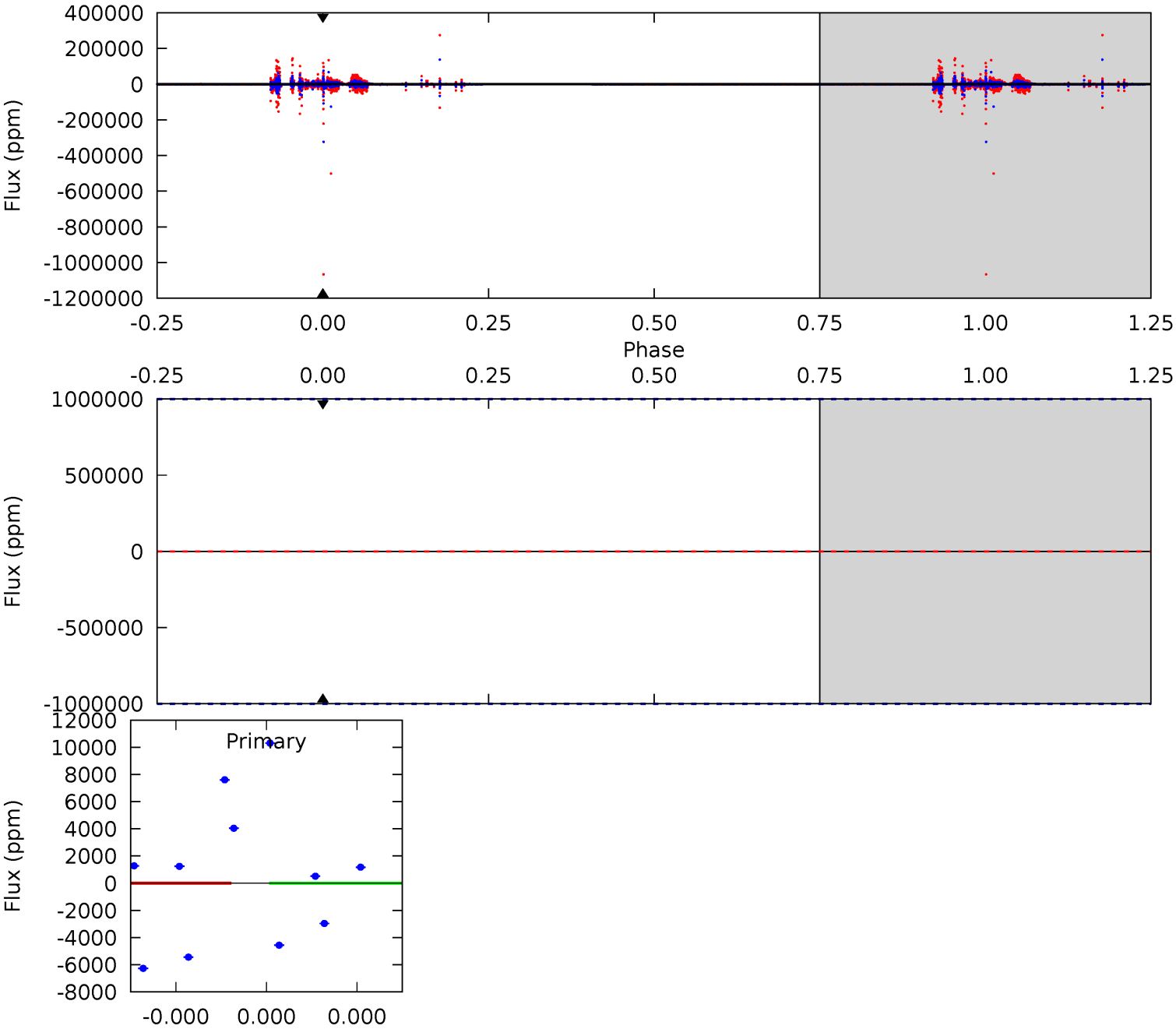
TCE 011126267-02 P=362.266585 Days $T_0=298.316592$ (BKJD)



DV Model-Shift Uniqueness Test

011126267-02, P = 362.266585 Days, E = 296.450690 Days

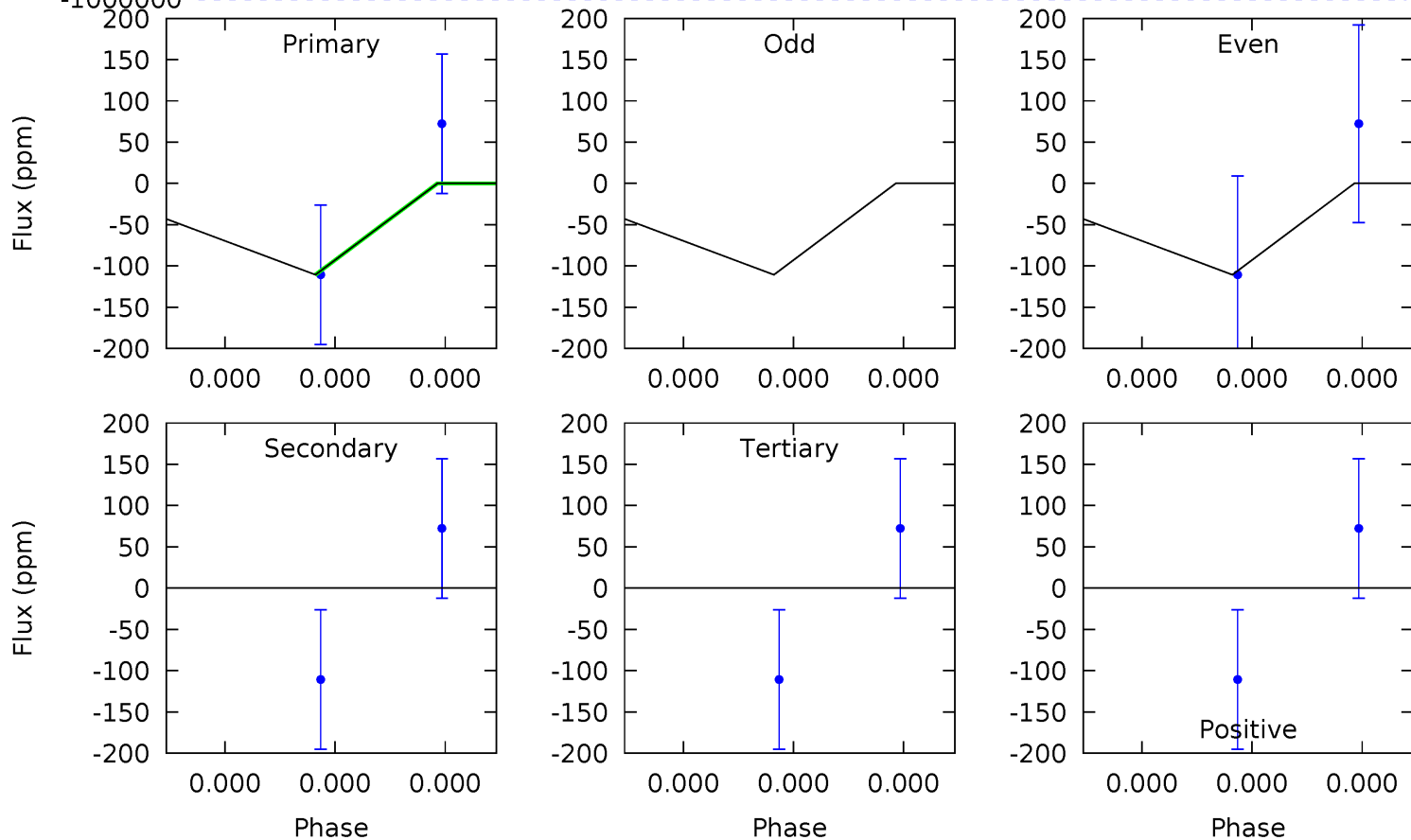
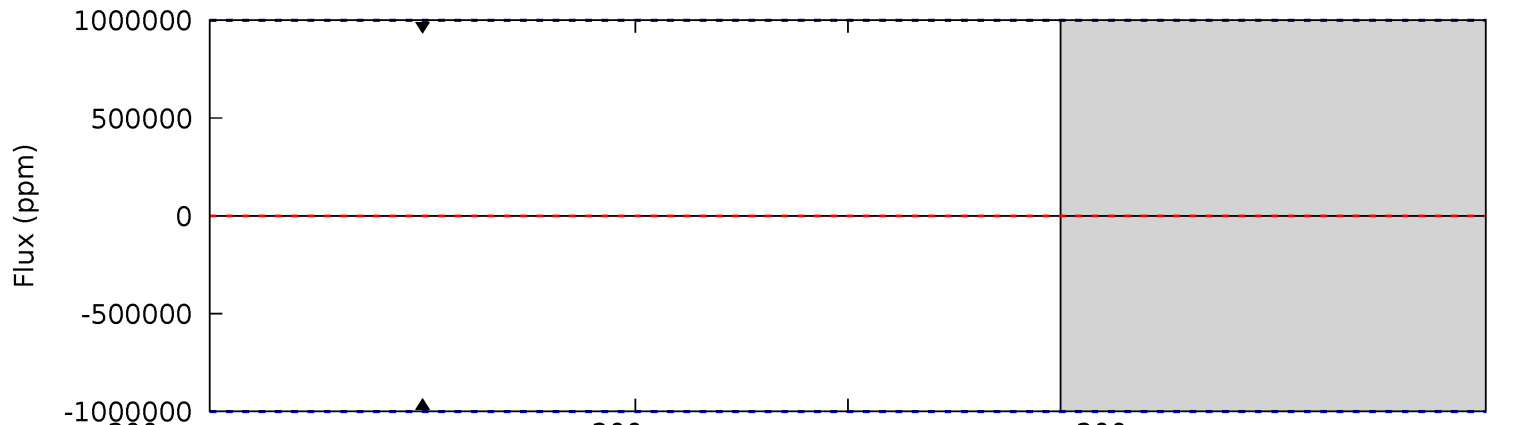
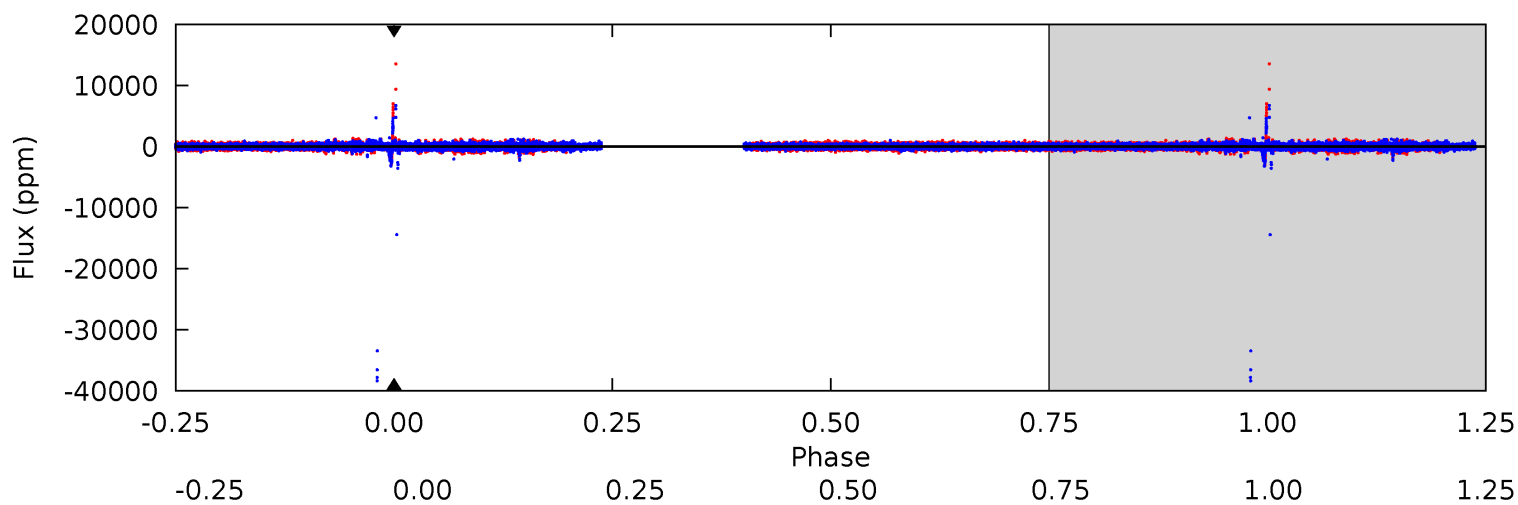
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011126267-02, P = 362.266585 Days, E = 298.316592 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	0.00	0	0	0



Stellar Parameters For KIC 011126267

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	5677^{+152}_{-152}	$4.569^{+0.033}_{-0.176}$	$-0.220^{+0.300}_{-0.300}$	$0.818^{+0.216}_{-0.072}$	$0.913^{+0.092}_{-0.102}$	$2.347^{+0.417}_{-1.133}$
	+3%/-3%	+1%/-4%	+136%/-136%	+26%/-9%	+10%/-11%	+18%/-48%
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 011126267-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	0 ± 1000000	$13.10^{+9.38}_{-8.06}$	330^{+21}_{-13}	4790^{+6299}_{-14531}	$24265^{+462076}_{-391320}$
Alt.	-0 ± 1000000	$9.74^{+8.40}_{-6.82}$	329^{+19}_{-14}	-3319^{+17521}_{-9822}	$-2556.483^{+911246.763}_{-833434.093}$

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 $A_{obs} \gg 1.0$

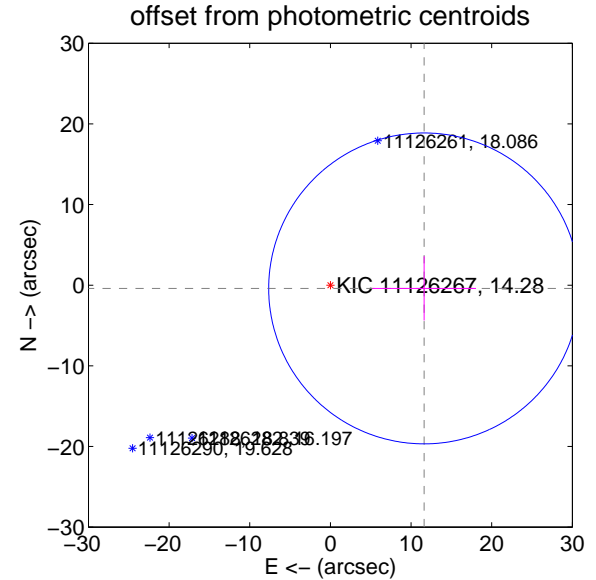
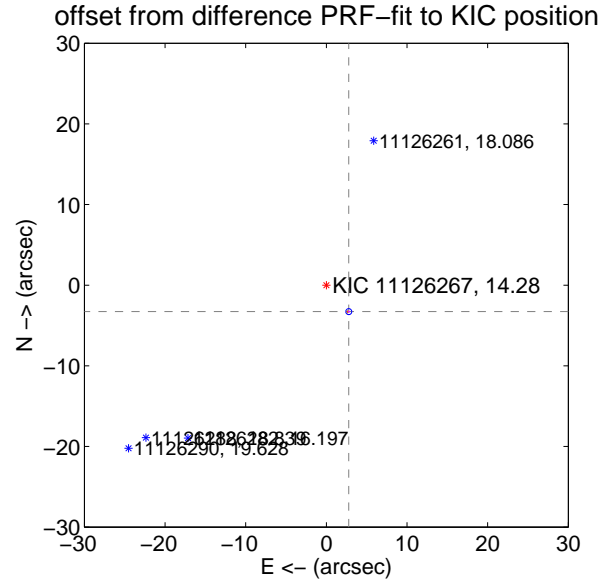
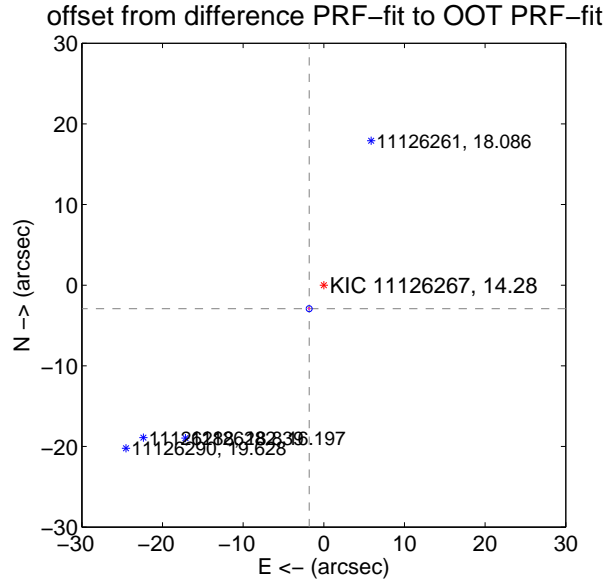
DV Centroid Data

Supplemental centroid analysis for 011126267-02. Kepler magnitude: 14.28. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

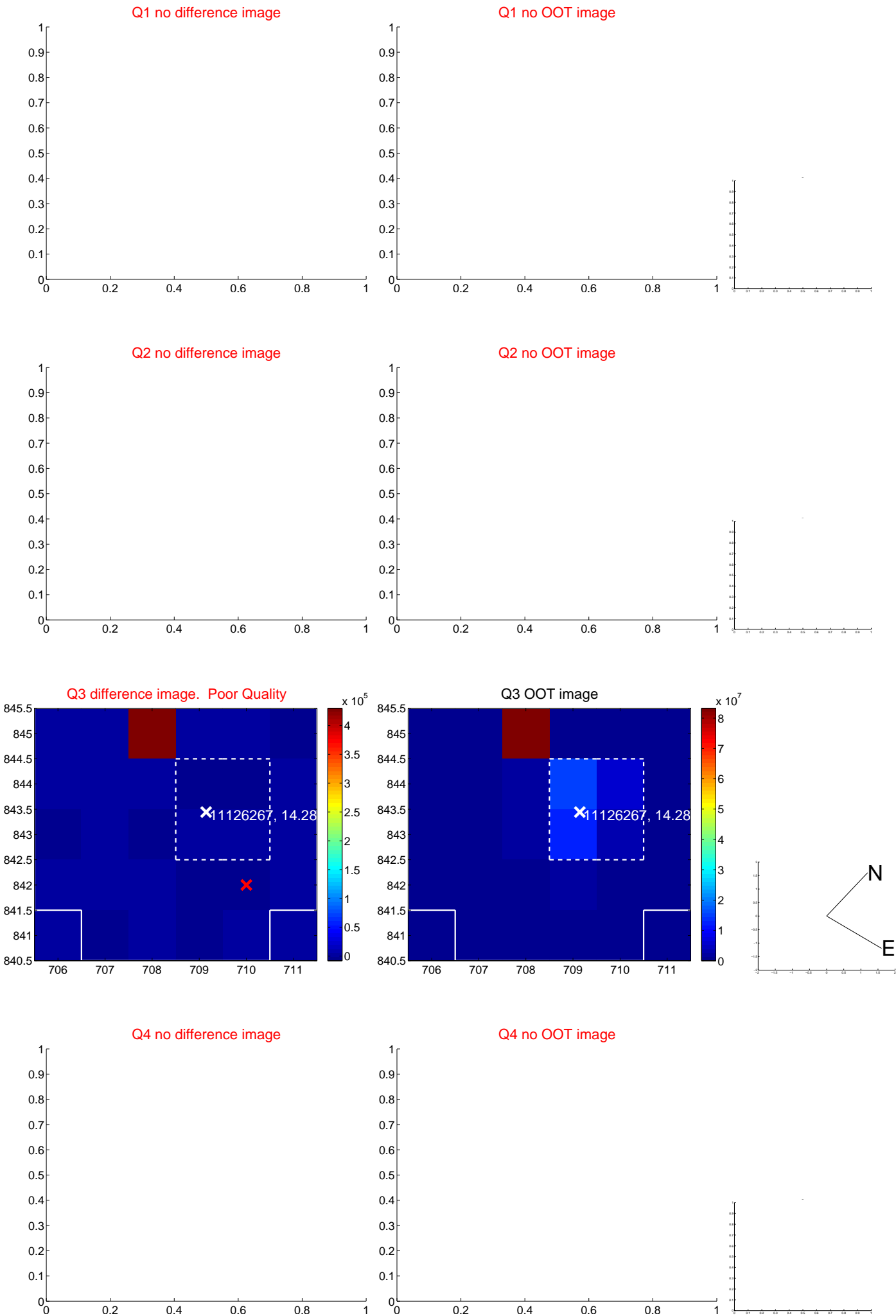
The OOT PRF centroid is offset from the target star catalog position by about 4.63 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.436 ± 0.124	27.82	1.815 ± 0.124	-2.918 ± 0.123
PRF-fit source offset from KIC position	4.299 ± 0.124	34.79	-2.780 ± 0.124	-3.279 ± 0.123
photometric centroid source offset	11.63 ± 6.43	1.81	-11.62 ± 6.43	-0.40 ± 3.98



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.

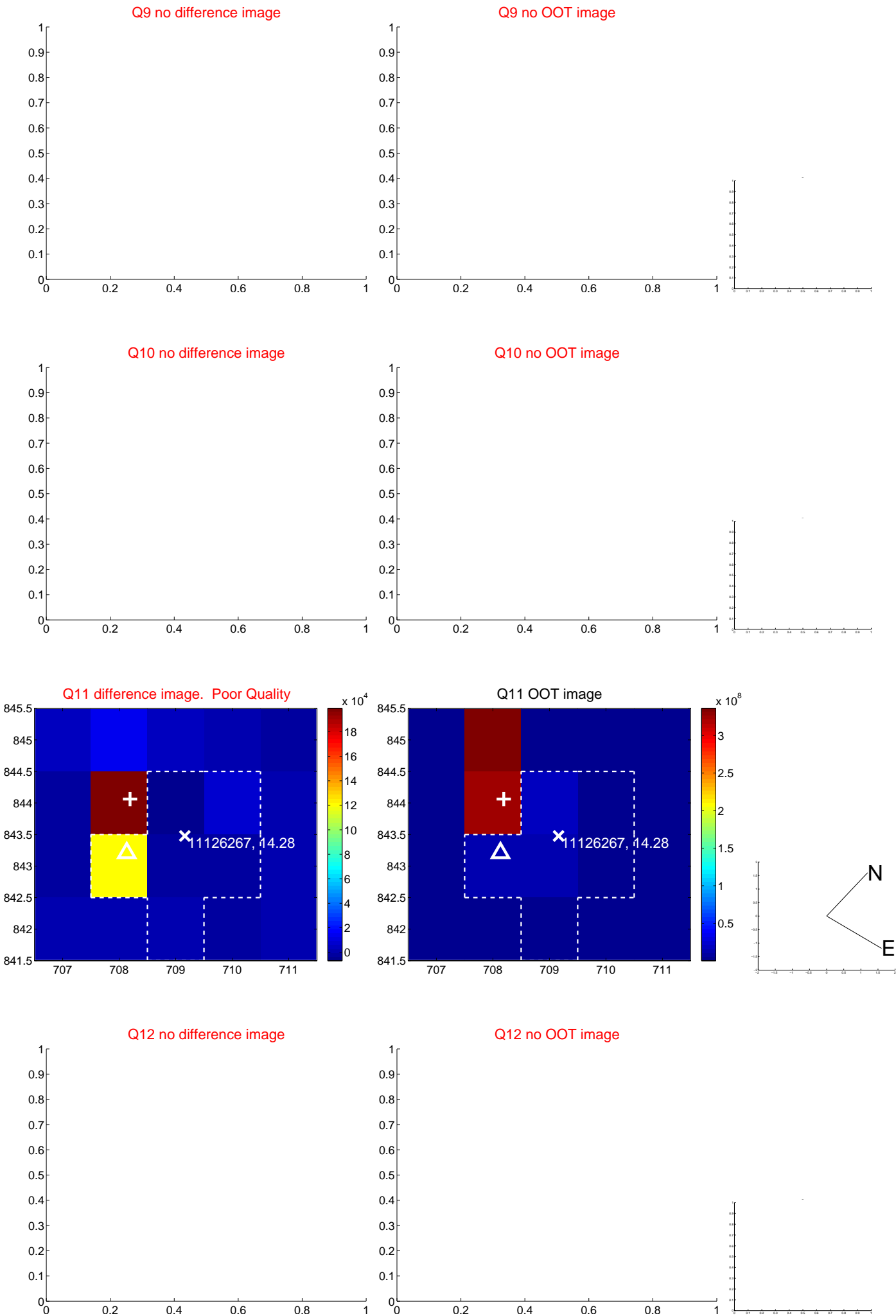
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

Q13 no difference image



Q13 no OOT image



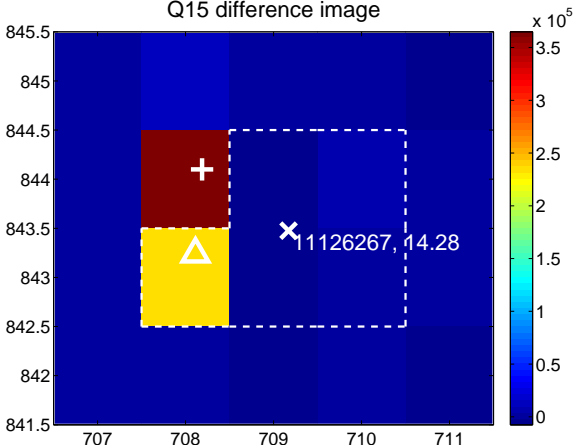
Q14 no difference image



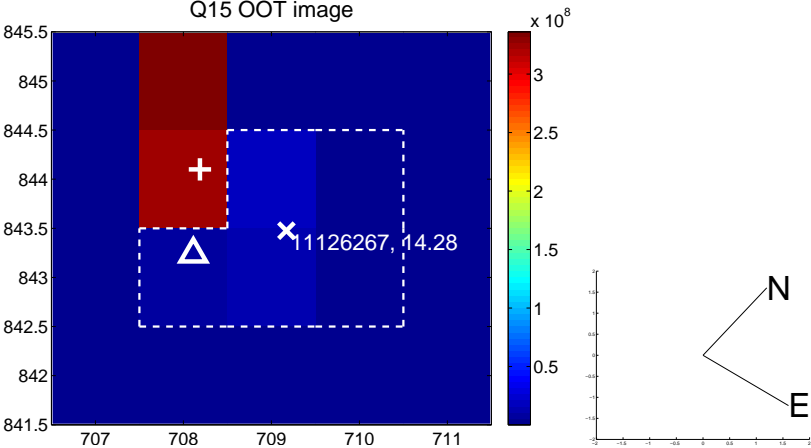
Q14 no OOT image



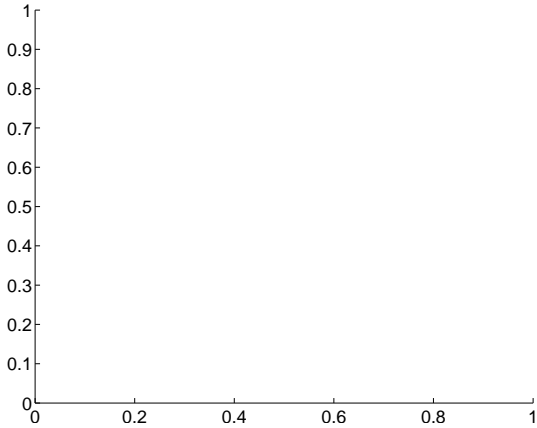
Q15 difference image



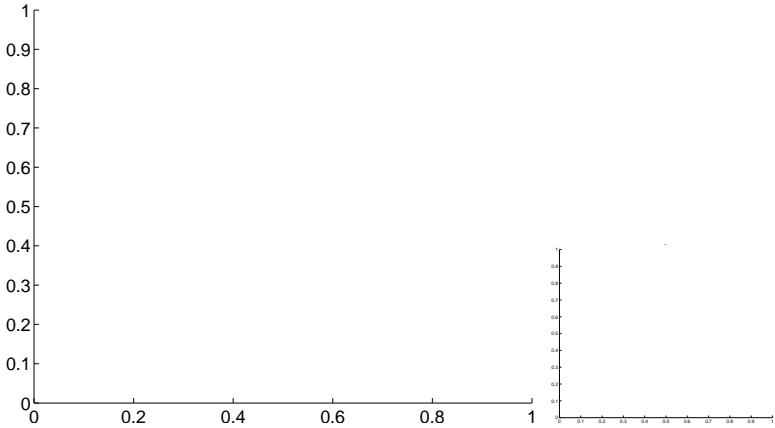
Q15 OOT image



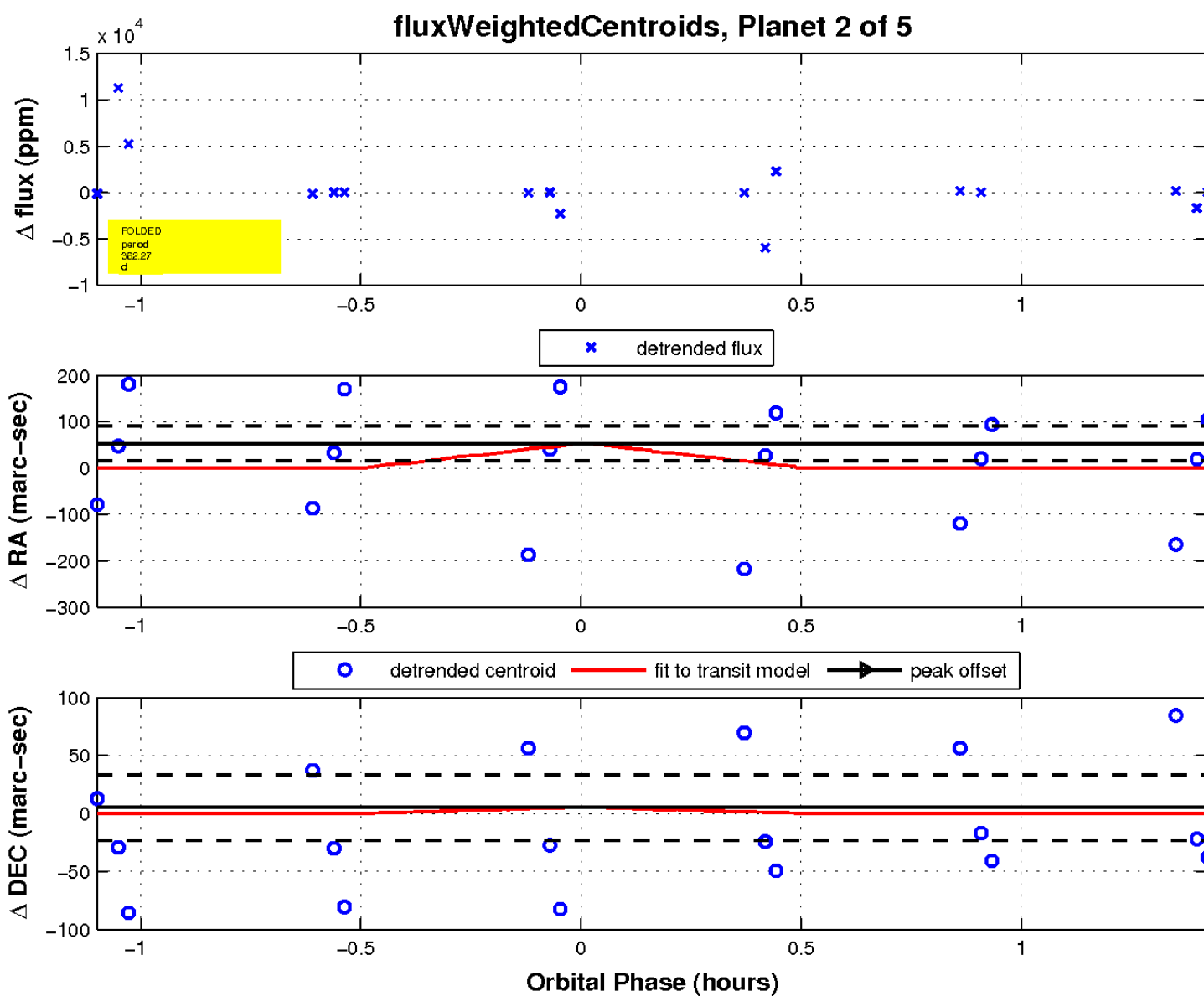
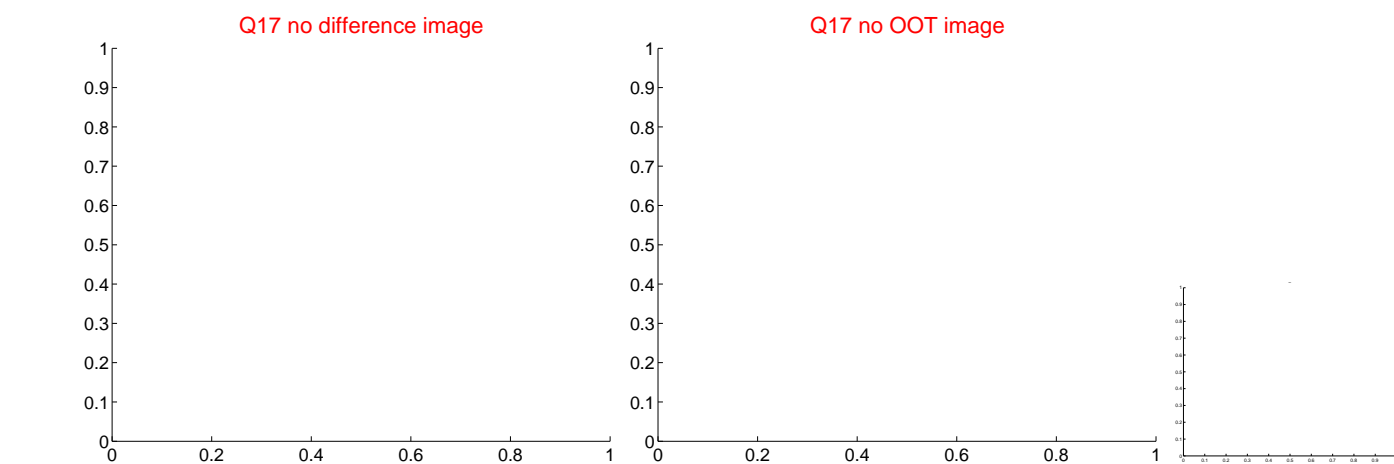
Q16 no difference image



Q16 no OOT image

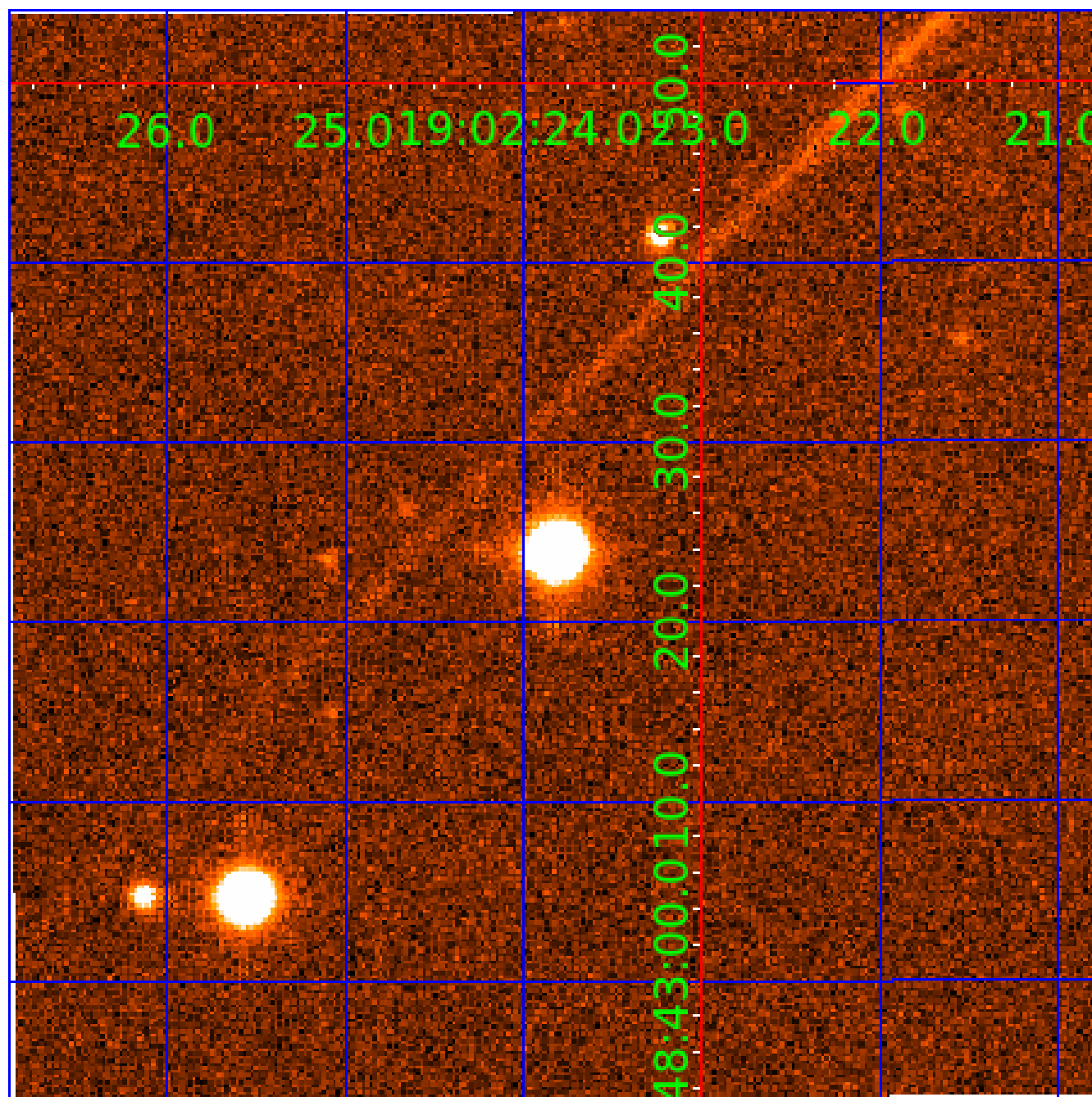


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



UKIRT Image

Declination



KIC 011126267

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})
011126267-01	OBS	No	367.757549	280.756683	2564.4	8.237	609.3	9.8	0.82	5677	4.12	0.66
011126267-02	OBS	No	362.266585	296.450690	19302.9	15.000	422.2	-1.0	0.82	5677	11.26	0.67
011126267-03	OBS	No	367.824514	282.167632	11132.0	15.000	225.3	-1.0	0.82	5677	8.55	0.66
011126267-04	OBS	No	374.262289	260.184459	132799.4	3.841	193.5	181.2	0.82	5677	42.44	0.64
011126267-05	OBS	No	373.560206	260.348014	45825.8	101.903	238.4	177.6	0.82	5677	24.93	0.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011126267-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—NO_FITS—INCONSISTENT_TRANS—CENT_NOFITS
011126267-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_NOFITS
011126267-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_NOFITS

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

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

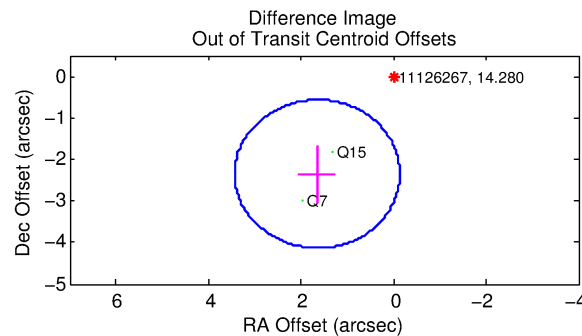
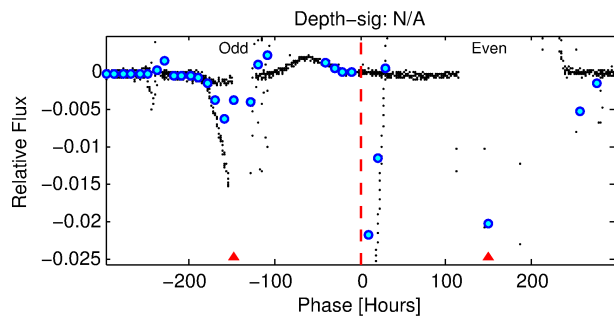
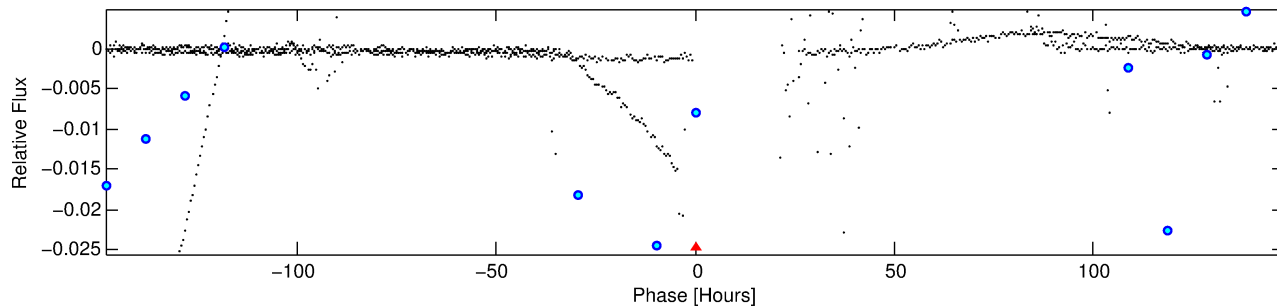
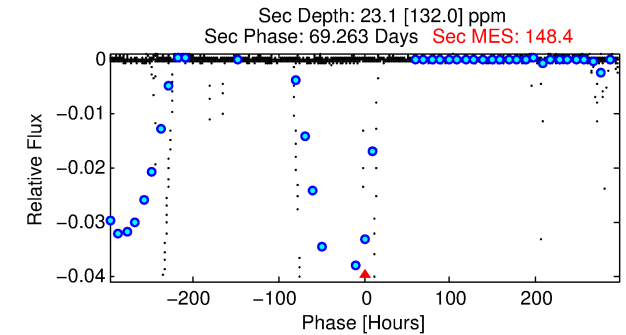
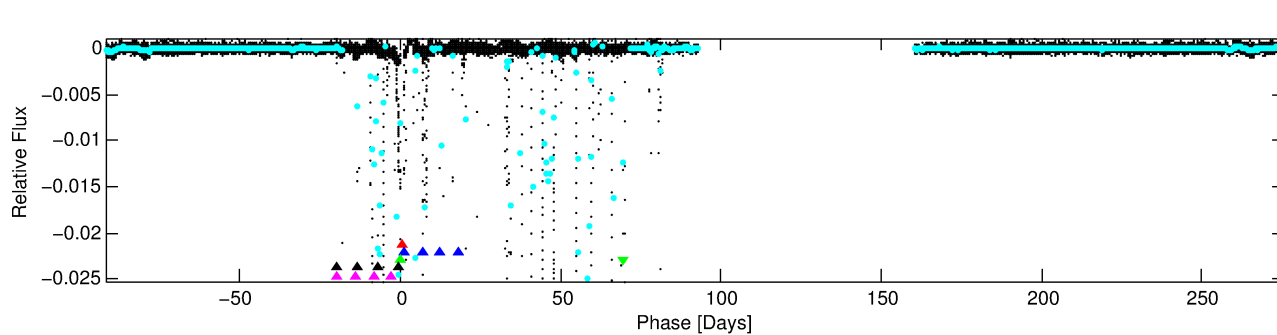
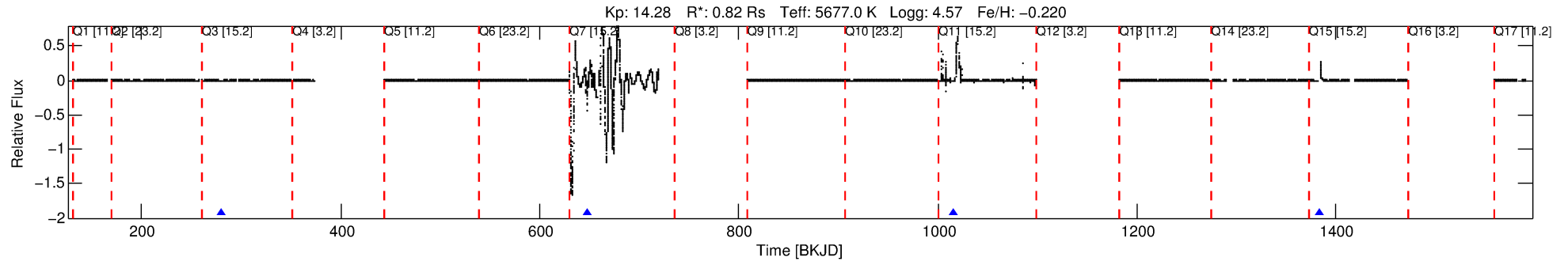
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011126267-03

No Significant Match Found

DV One-Page Summary

KIC: 11126267 Candidate: 3 of 5 Period: 367.825 d



TPS TCE Results:

Period = 367.82451 d
Epoch = 282.1676 BKJD

DV fit results are unavailable

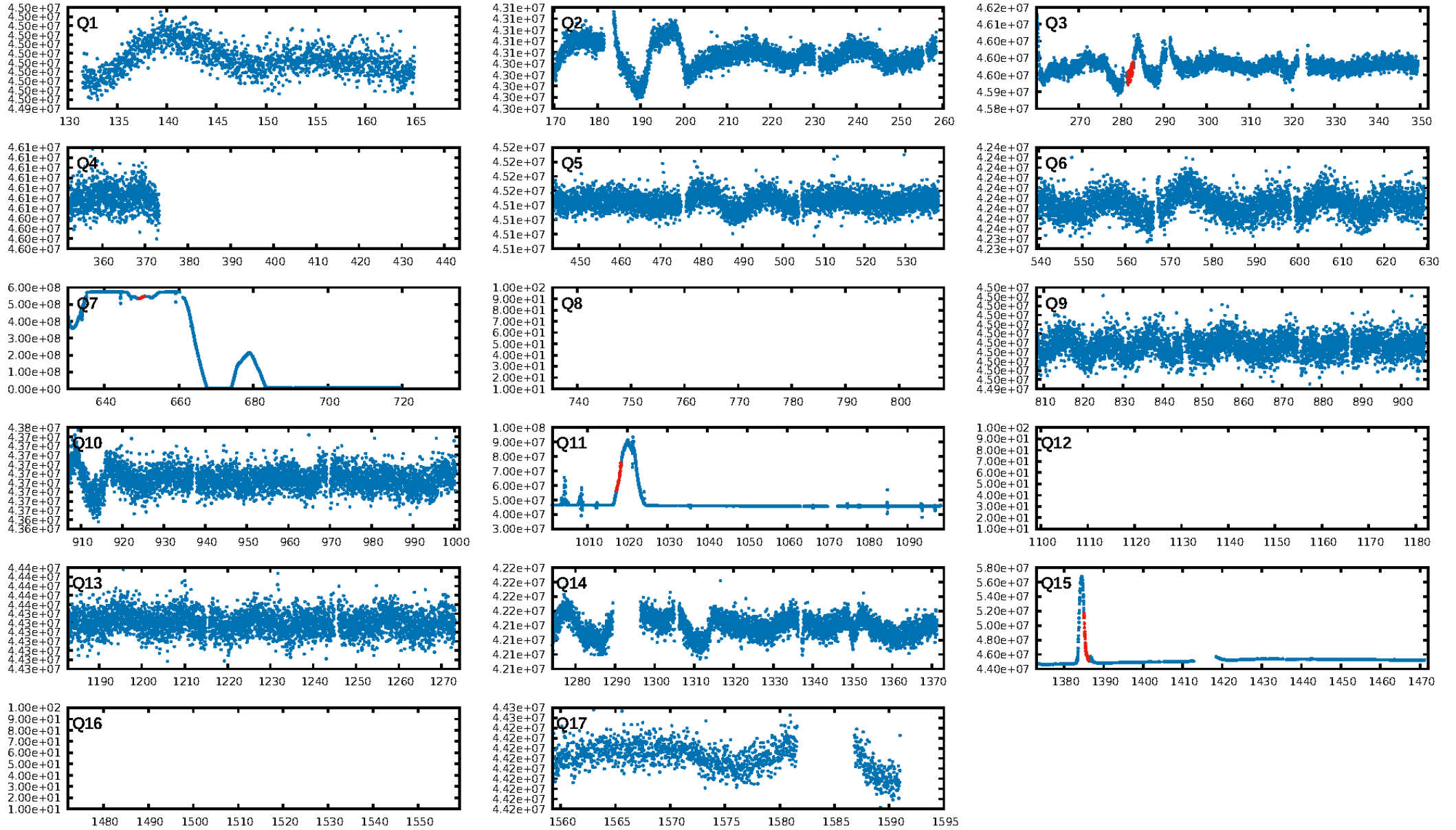
DV Diagnostic Results:

ShortPeriod-sig: 7.5% [0.09 σ]
LongPeriod-sig: 81.9% [1.34 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.54e-101
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.8695
Centroid-sig: 5.8%
Centroid-so: 4.935 arcsec [1.19 σ]
OotOffset-rm: 2.872 arcsec [4.83 σ]
KicOffset-rm: 3.991 arcsec [5.84 σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 0.00 [0/3]

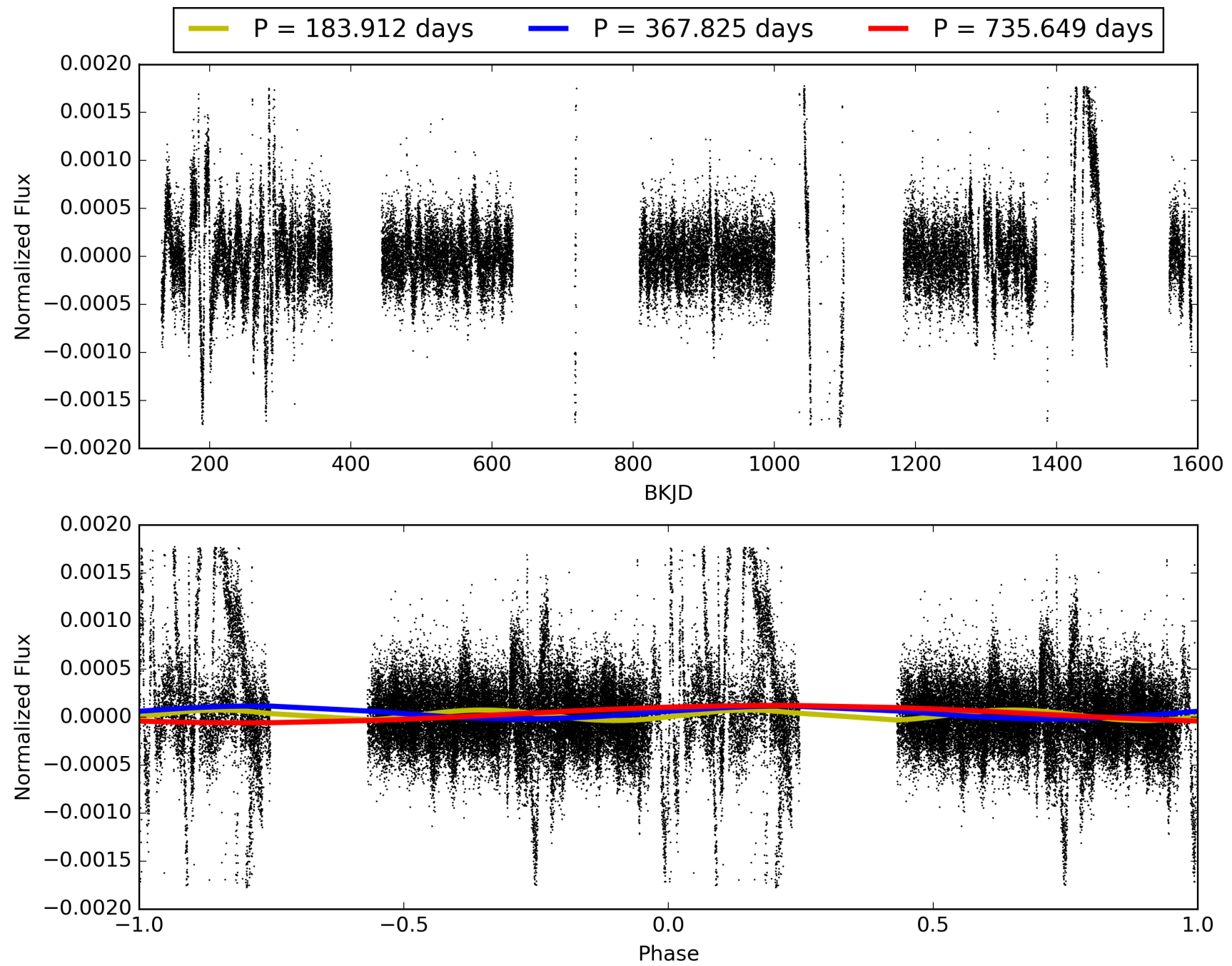
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:22:53 Z

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

TCE 011126267-03, PDC Light Curves

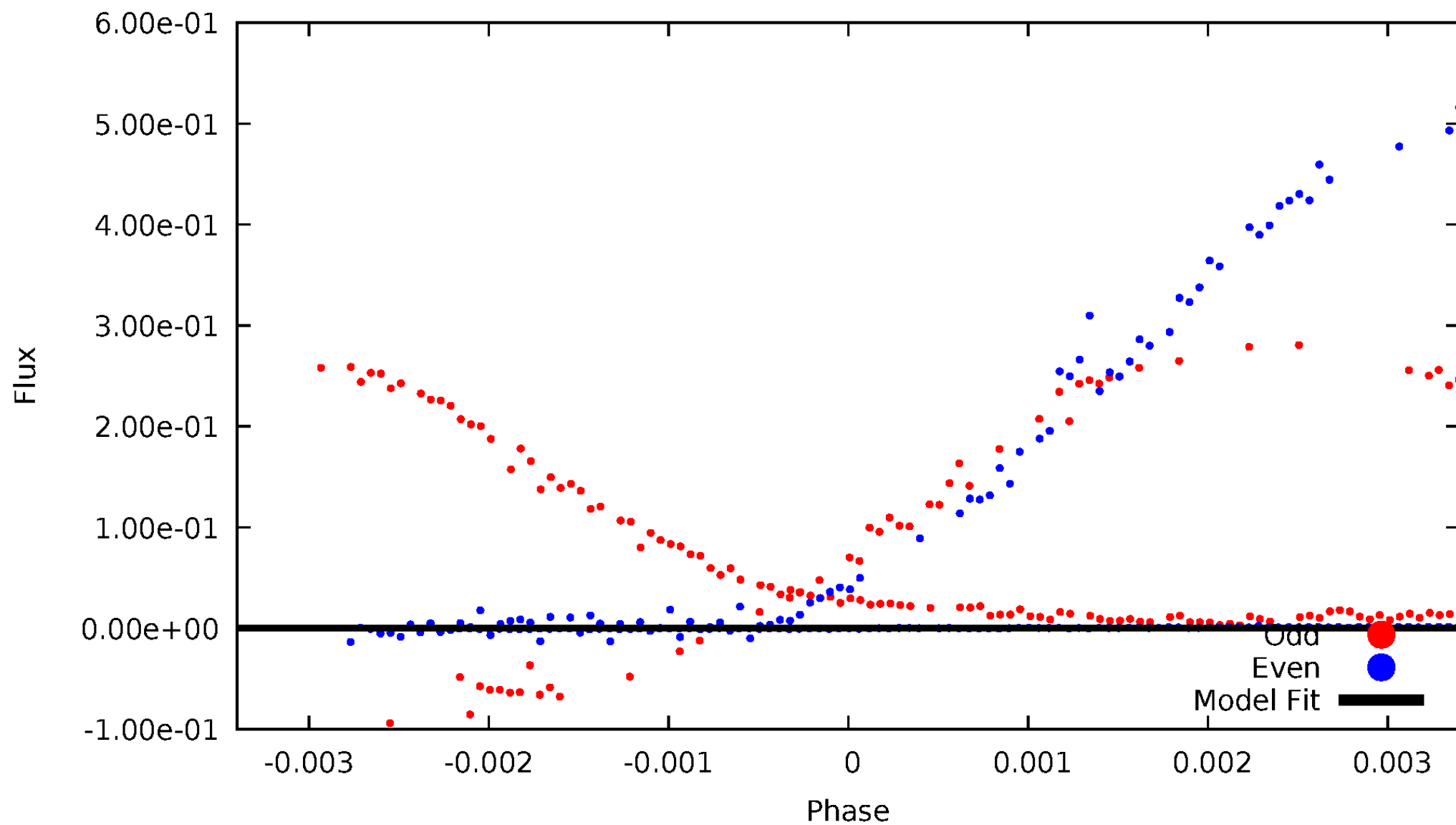


TCE 011126267-03



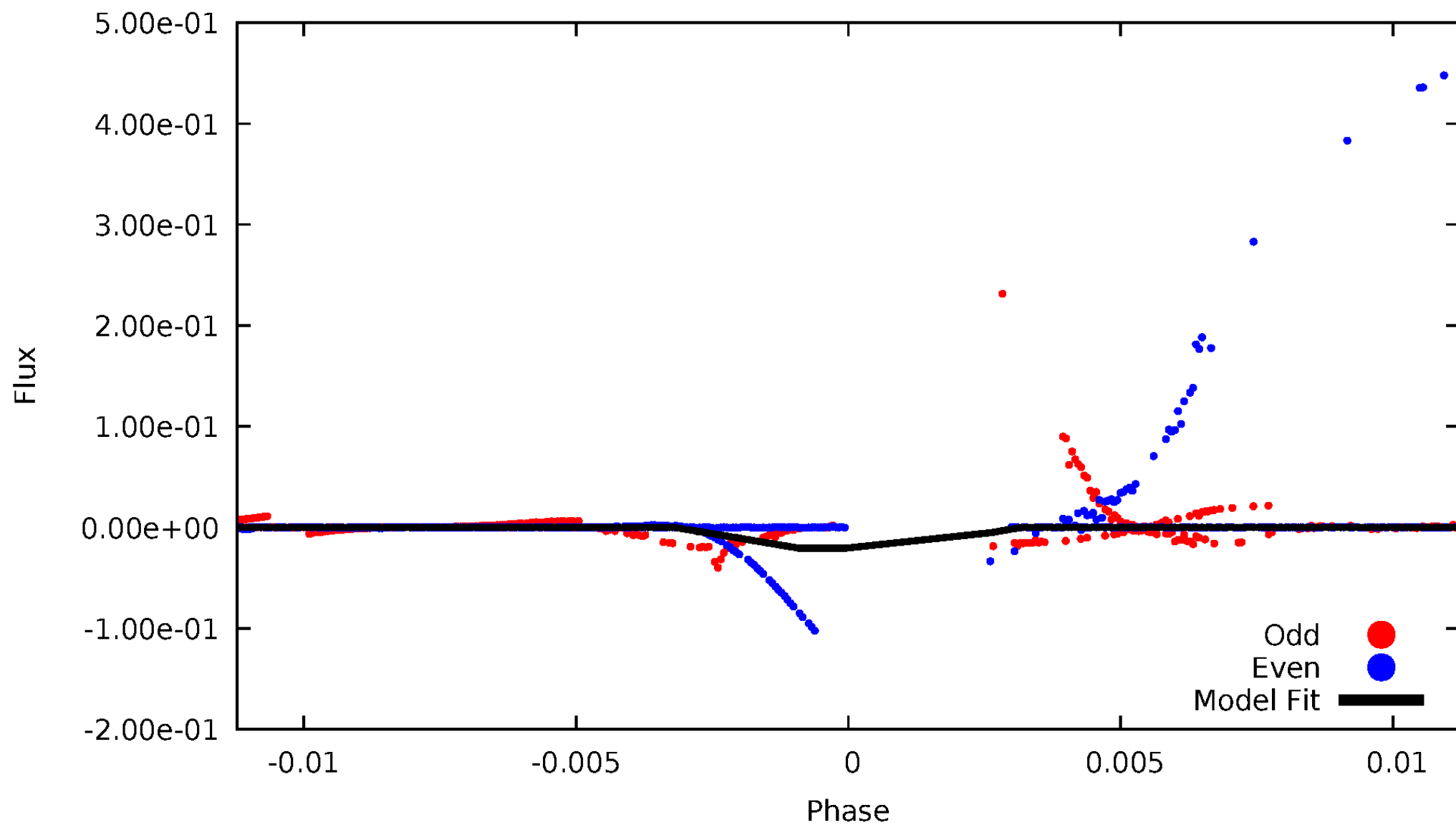
DV Odd/Even

TCE 011126267-03



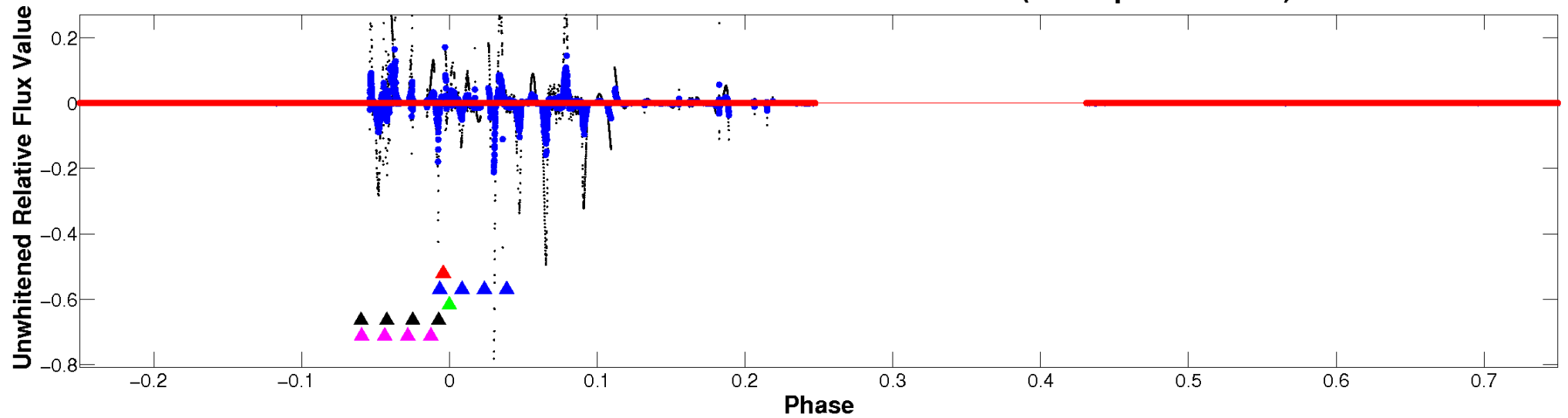
ALT Odd/Even

TCE 011126267-03



Non-Whitened Vs. Whitened Light Curve

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

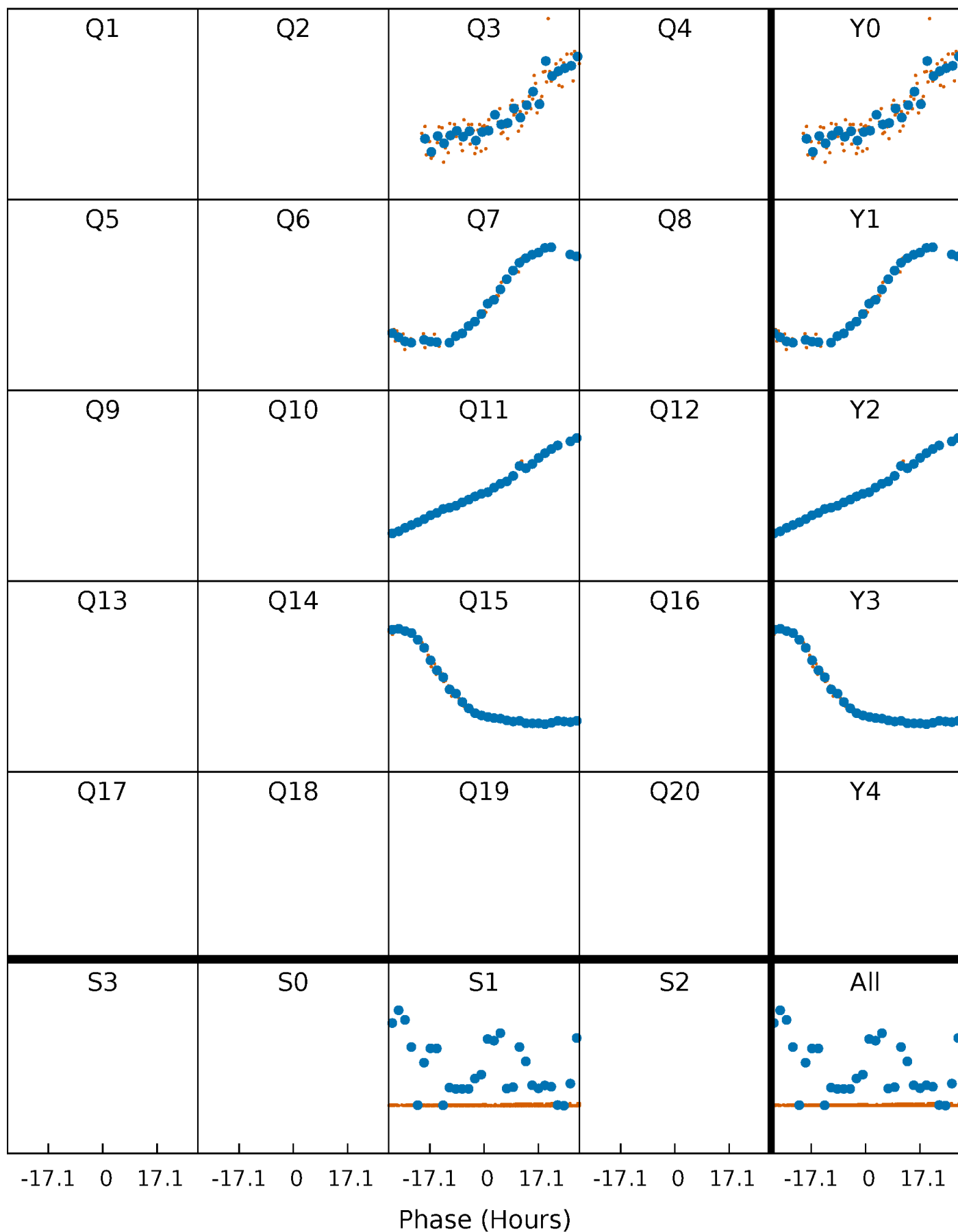


Planet 3 : Phased Whitened Flux Time Series (TPS Epoch/Period)



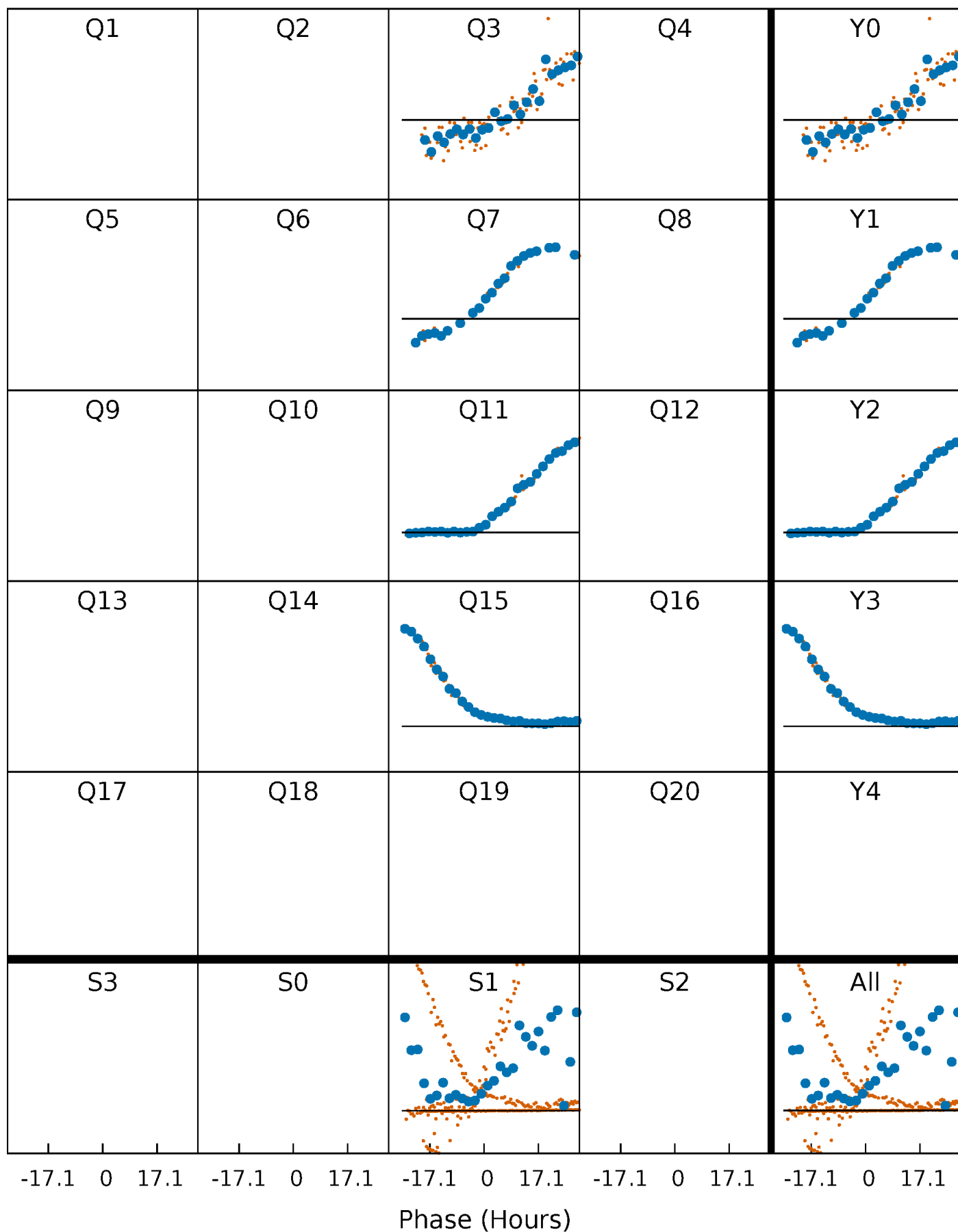
PDC Quarter-Phased Transit Curves

TCE 011126267-03 $P=367.824514$ Days $T_0=282.167632$ (BKJD)



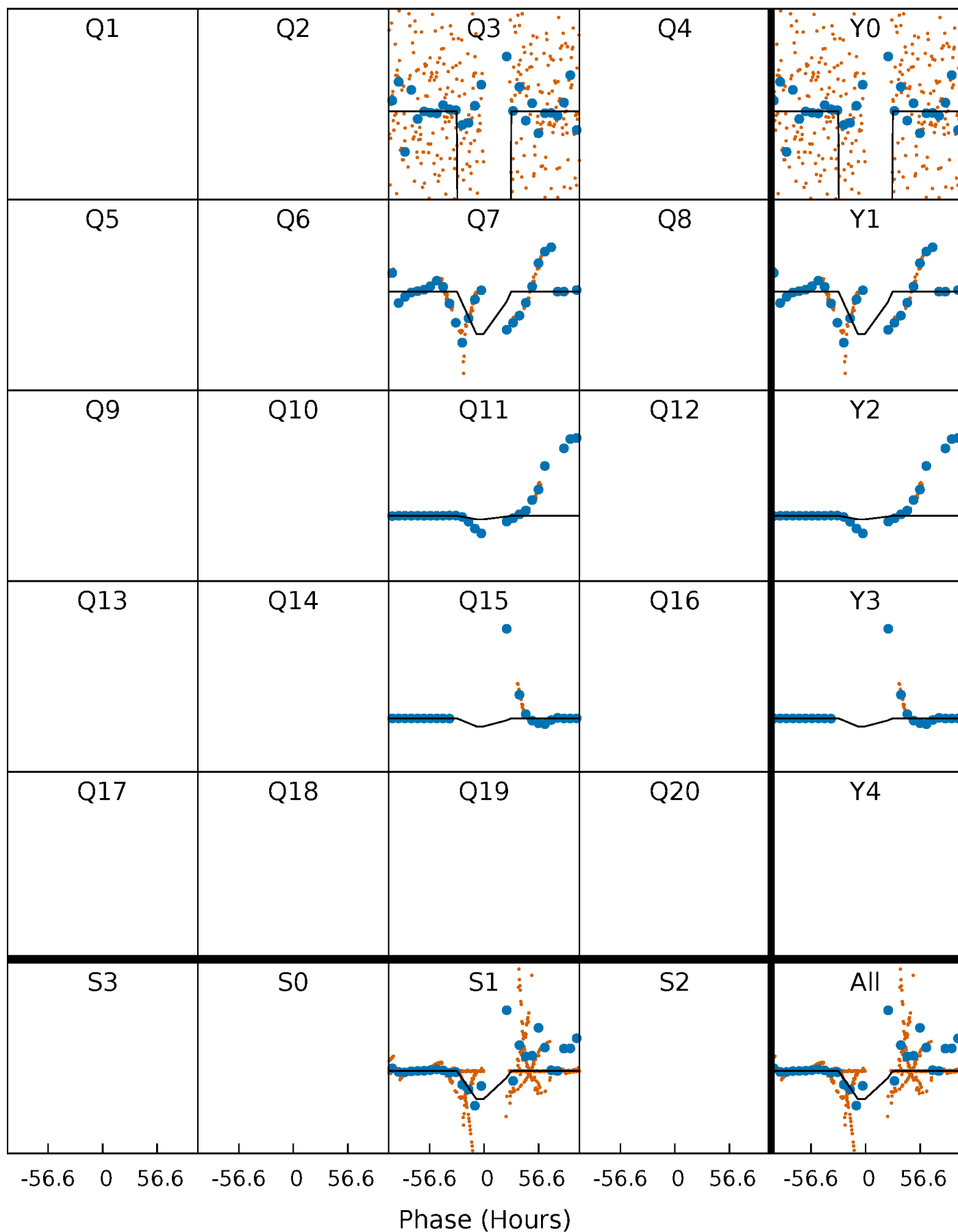
DV Quarter-Phased Transit Curves

TCE 011126267-03 P=367.824514 Days $T_0=282.167632$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

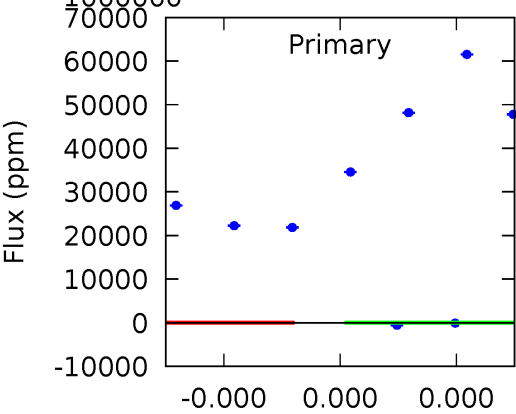
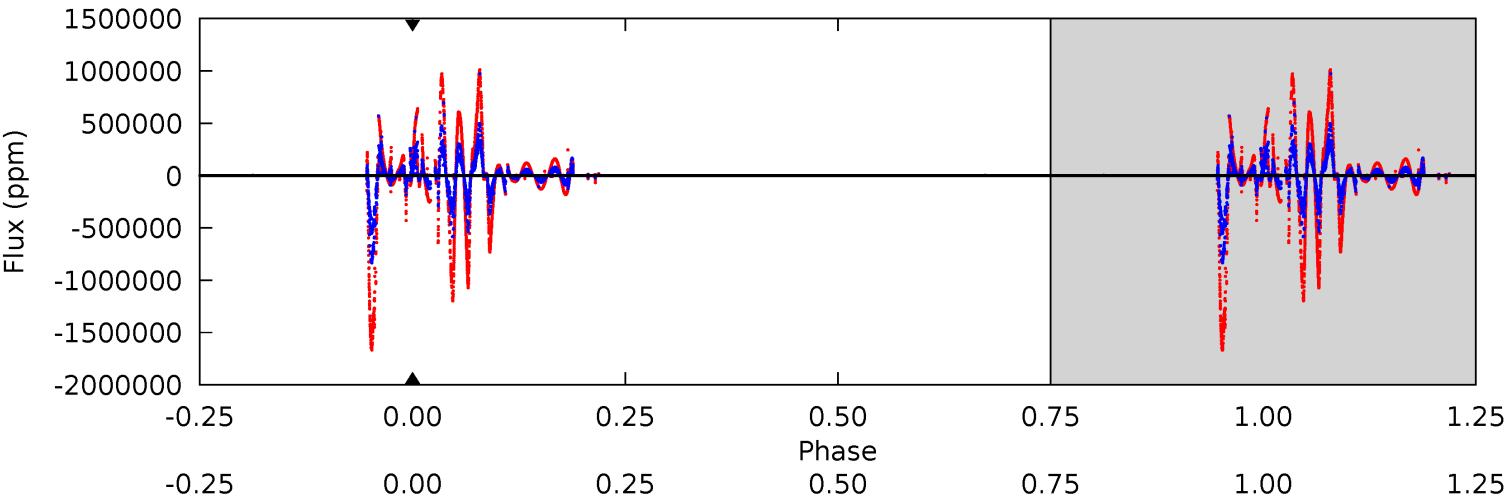
TCE 011126267-03 $P=367.824514$ Days $T_0=280.251866$ (BKJD)



DV Model-Shift Uniqueness Test

011126267-03, P = 367.824514 Days, E = 282.167632 Days

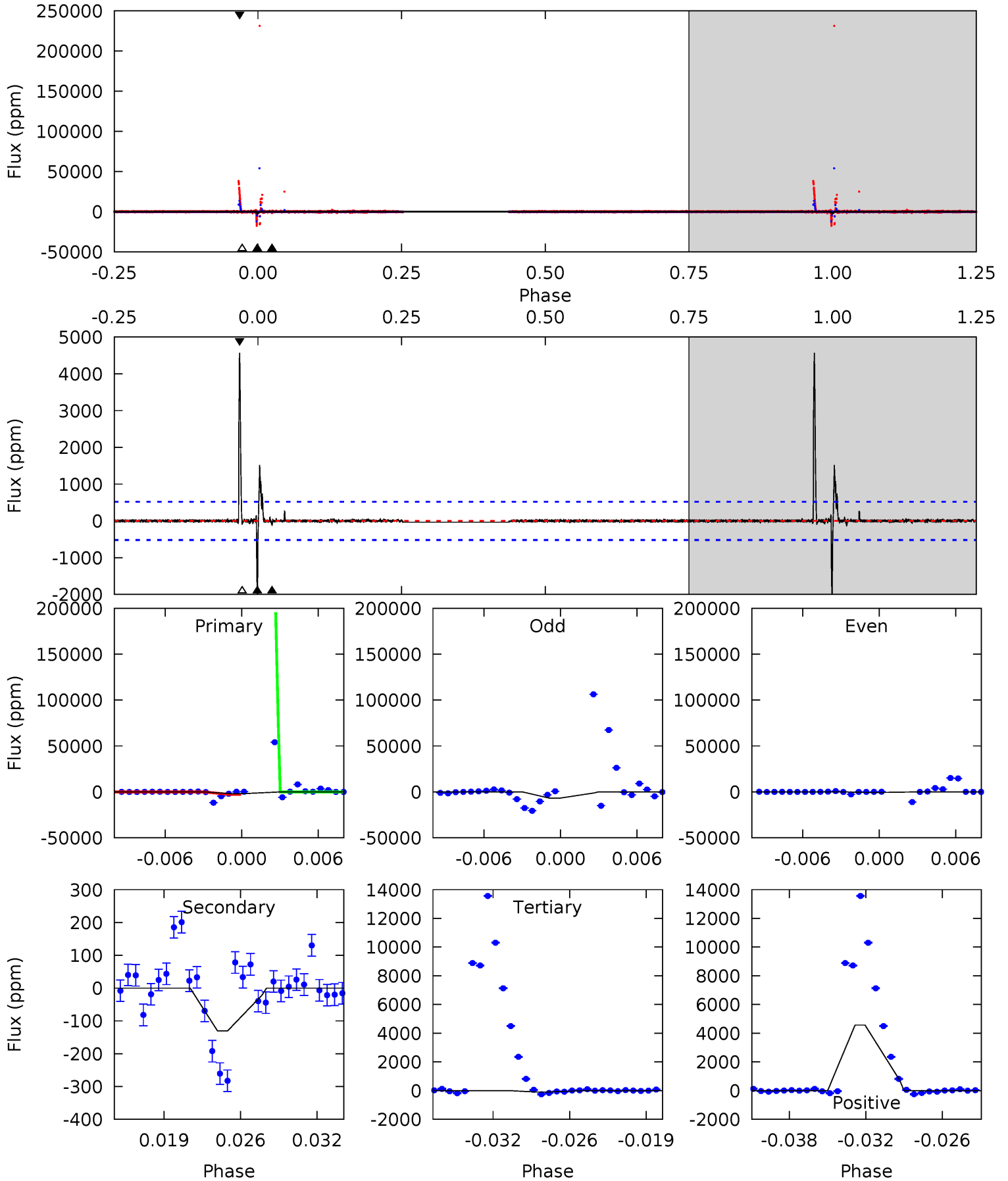
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011126267-03, P = 367.824514 Days, E = 280.251866 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.5	1.28	0.98	44.8	5.11	2.73	1.81	18.5	-25.3	0.30	-43.5	0.89	2.67	0.70	704.4



Stellar Parameters For KIC 011126267

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5677^{+152}_{-152}	$4.569^{+0.033}_{-0.176}$	$-0.220^{+0.300}_{-0.300}$	$0.818^{+0.216}_{-0.072}$	$0.913^{+0.092}_{-0.102}$	$2.347^{+0.417}_{-1.133}$
	+3%/-3%	+1%/-4%	+136%/-136%	+26%/-9%	+10%/-11%	+18%/-48%
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 011126267-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$11.00^{+8.95}_{-6.78}$	328^{+18}_{-13}	-2188^{+14737}_{-9789}	$-200.514^{+787527.021}_{-637490.638}$
Alt.	-131 ± 102	$14.51^{+9.23}_{-7.97}$	328^{+20}_{-14}	2378^{+622}_{-391}	272^{+1404}_{-221}

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

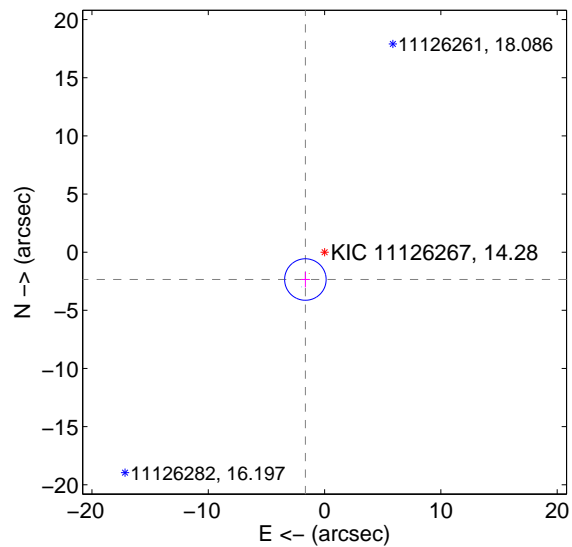
Supplemental centroid analysis for 011126267-03. Kepler magnitude: 14.28. Transit SNR -1.00

There are 1 quarters with good PRF difference image offsets

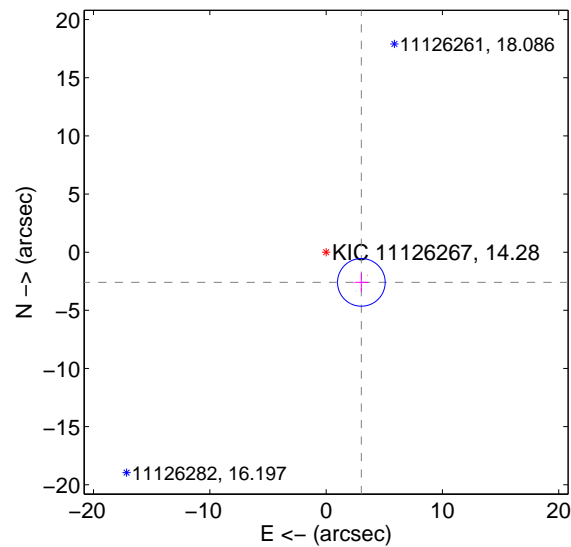
The OOT PRF centroid is offset from the target star catalog position by about 4.88 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.872 ± 0.595	4.83	1.650 ± 0.380	-2.351 ± 0.676
PRF-fit source offset from KIC position	3.991 ± 0.683	5.84	-3.030 ± 0.580	-2.597 ± 0.802
photometric centroid source offset	4.94 ± 4.13	1.19	-1.47 ± 8.55	4.71 ± 3.41

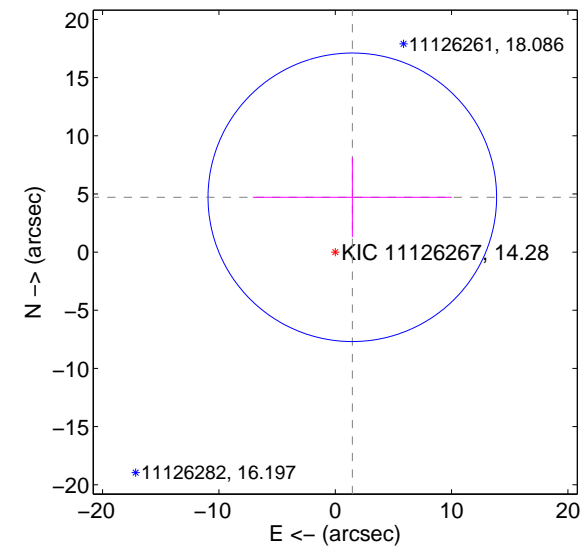
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

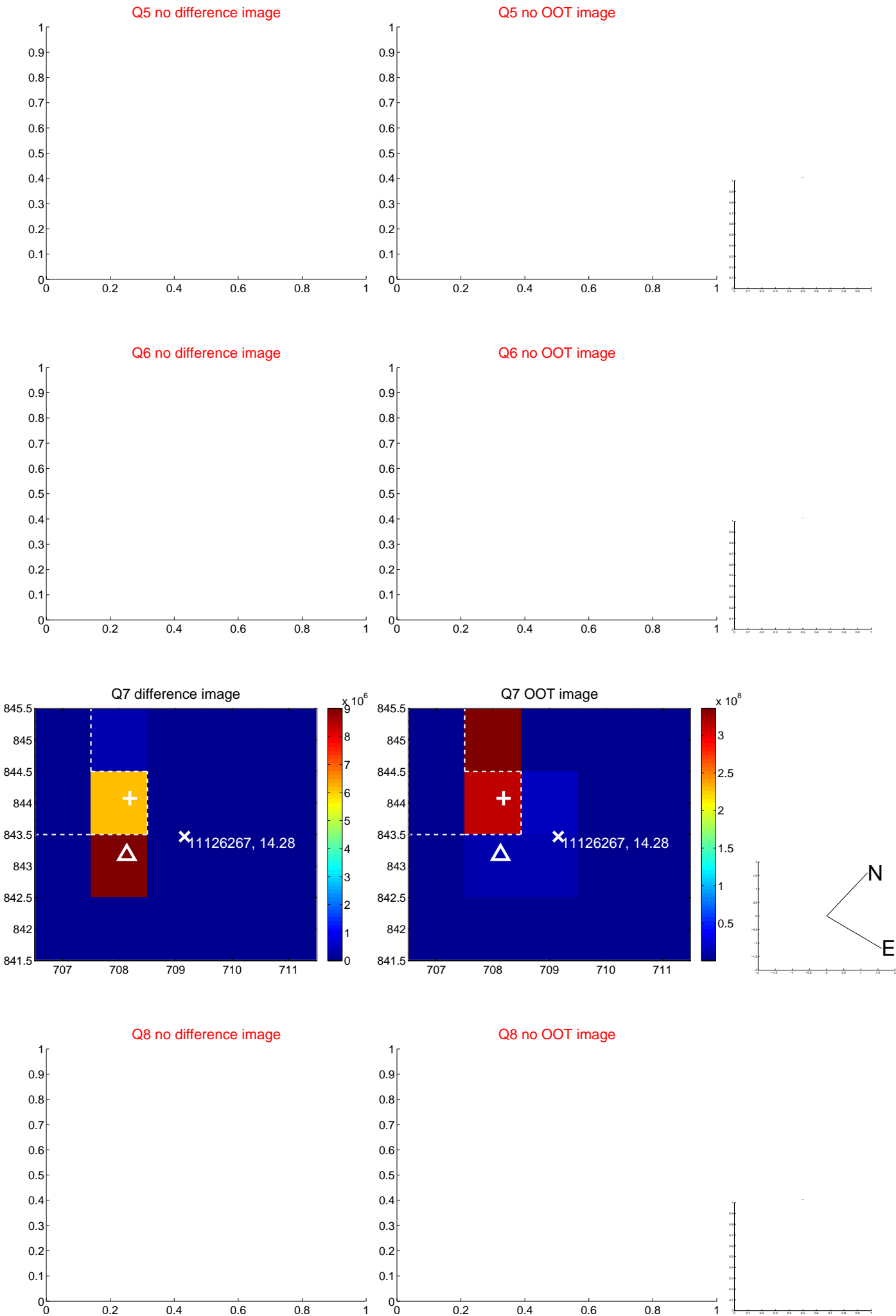


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

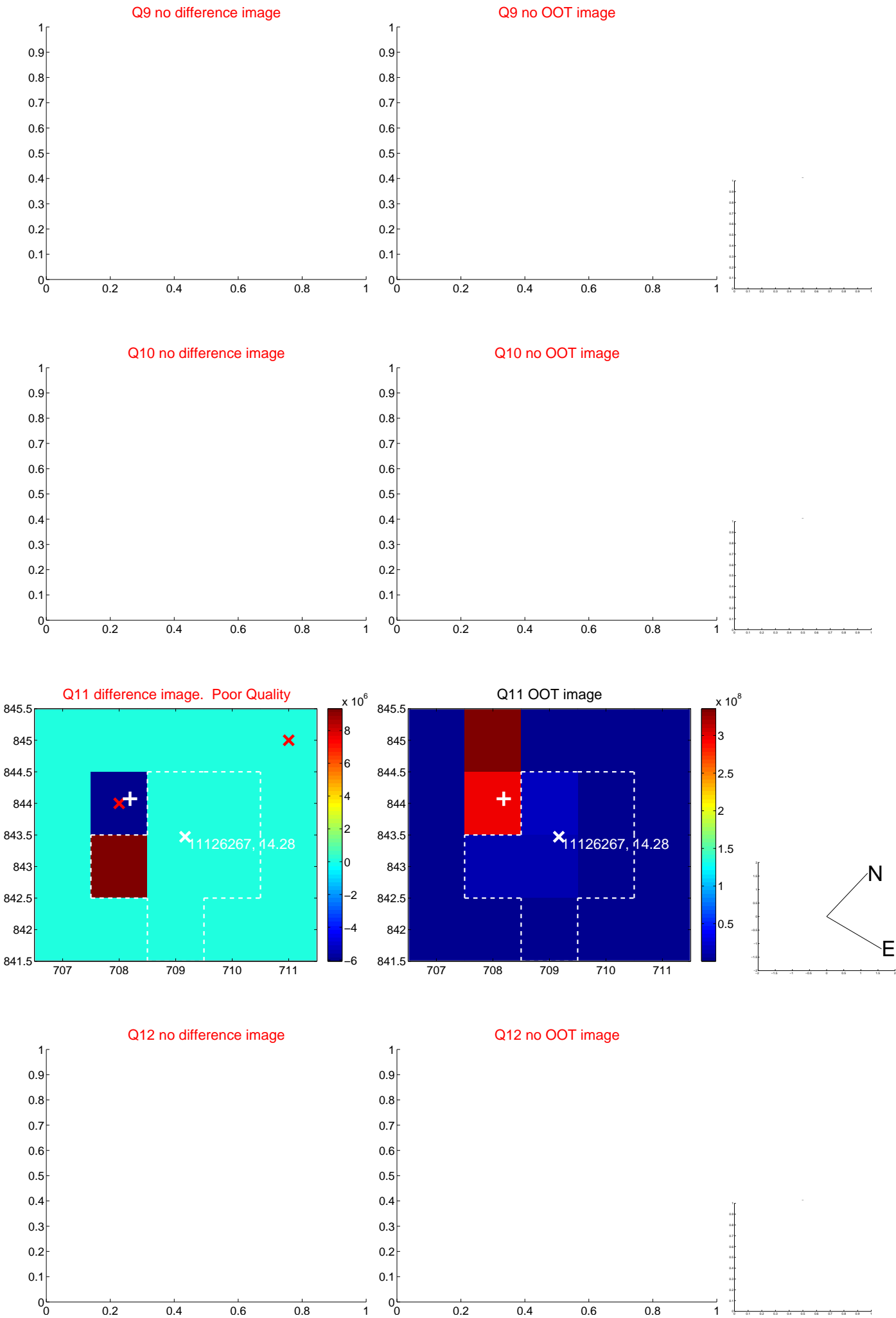
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



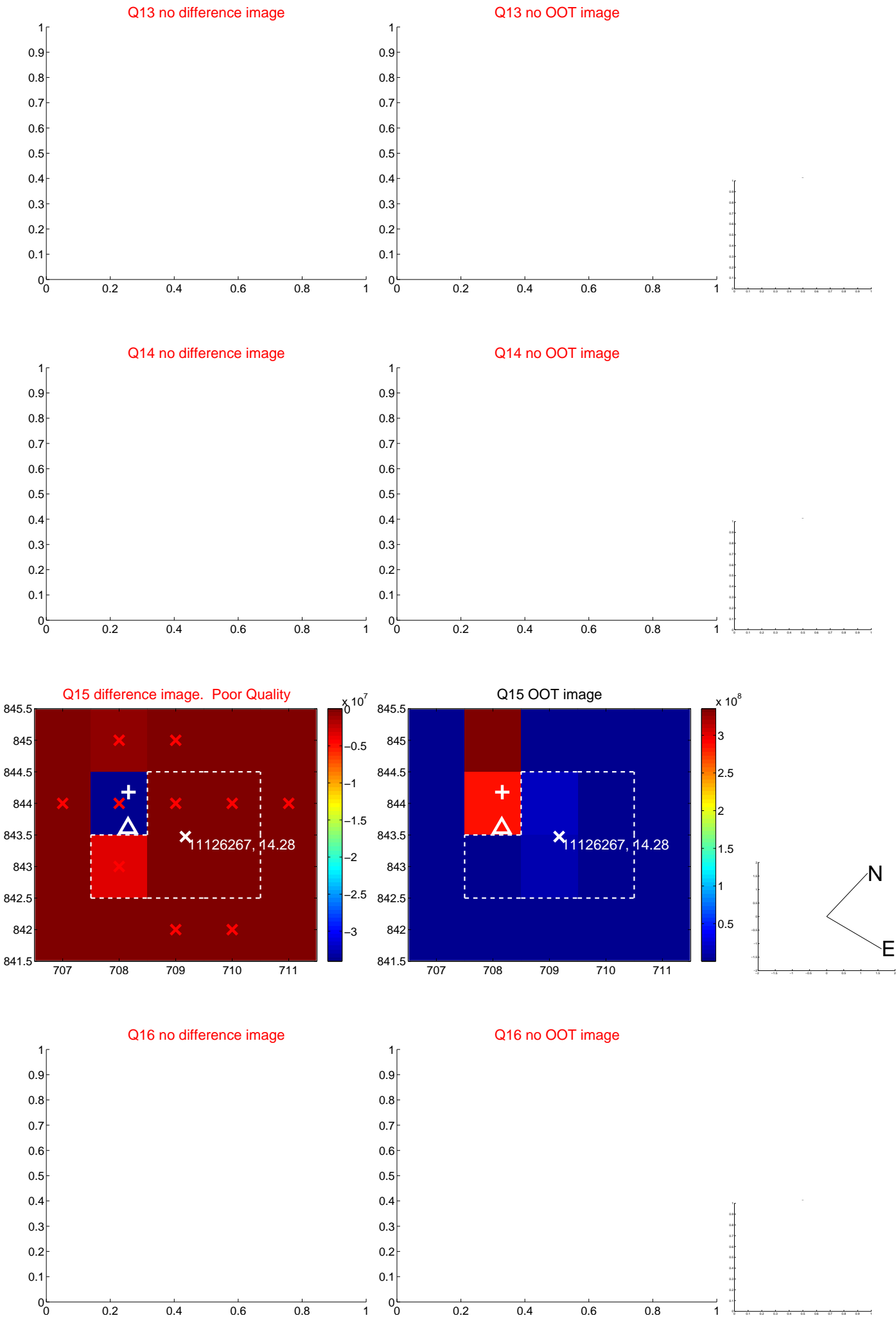
white \times : KIC target position; $+$: OOT centroid; Δ : difference centroid. red \times : large negative pixel value.



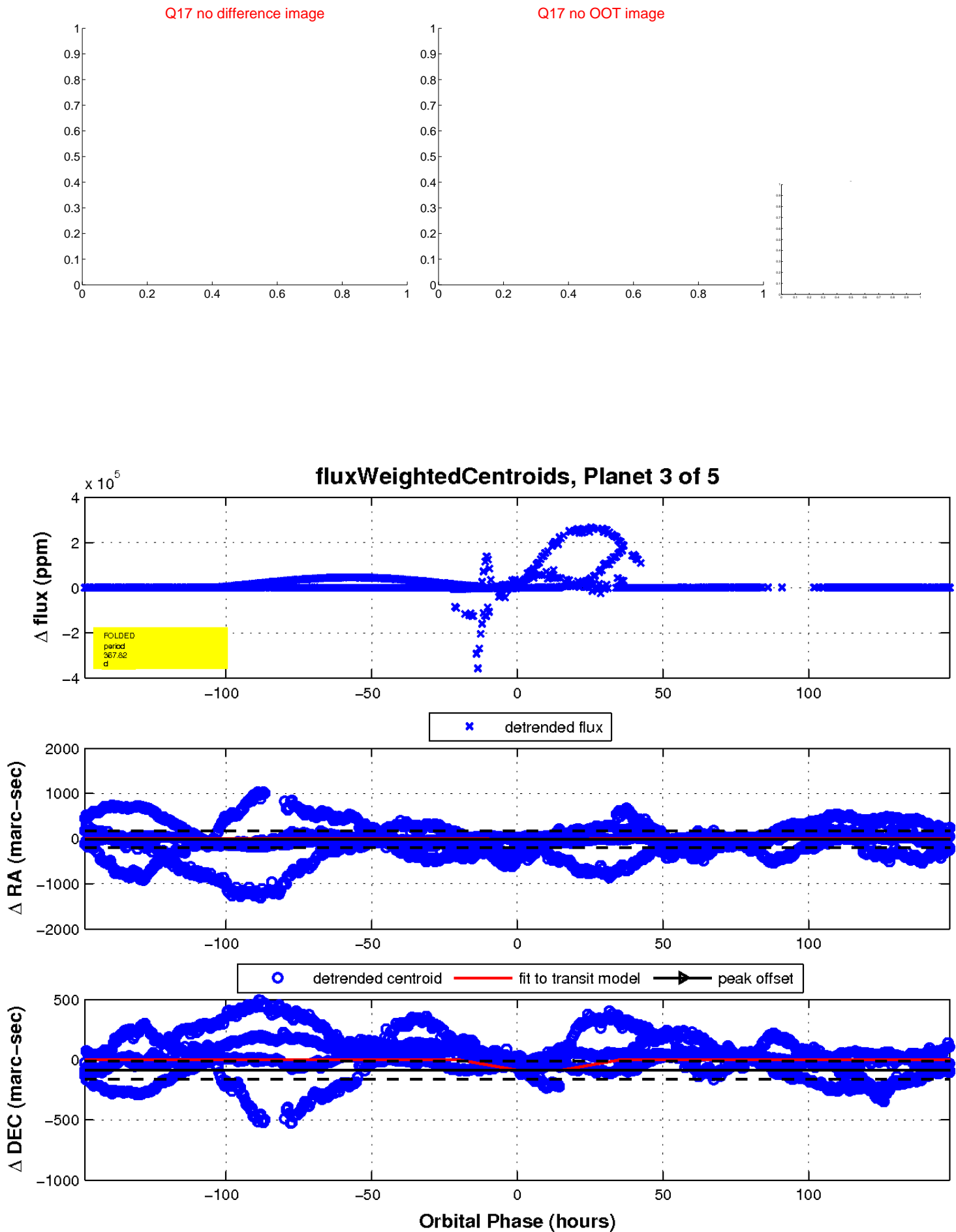
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

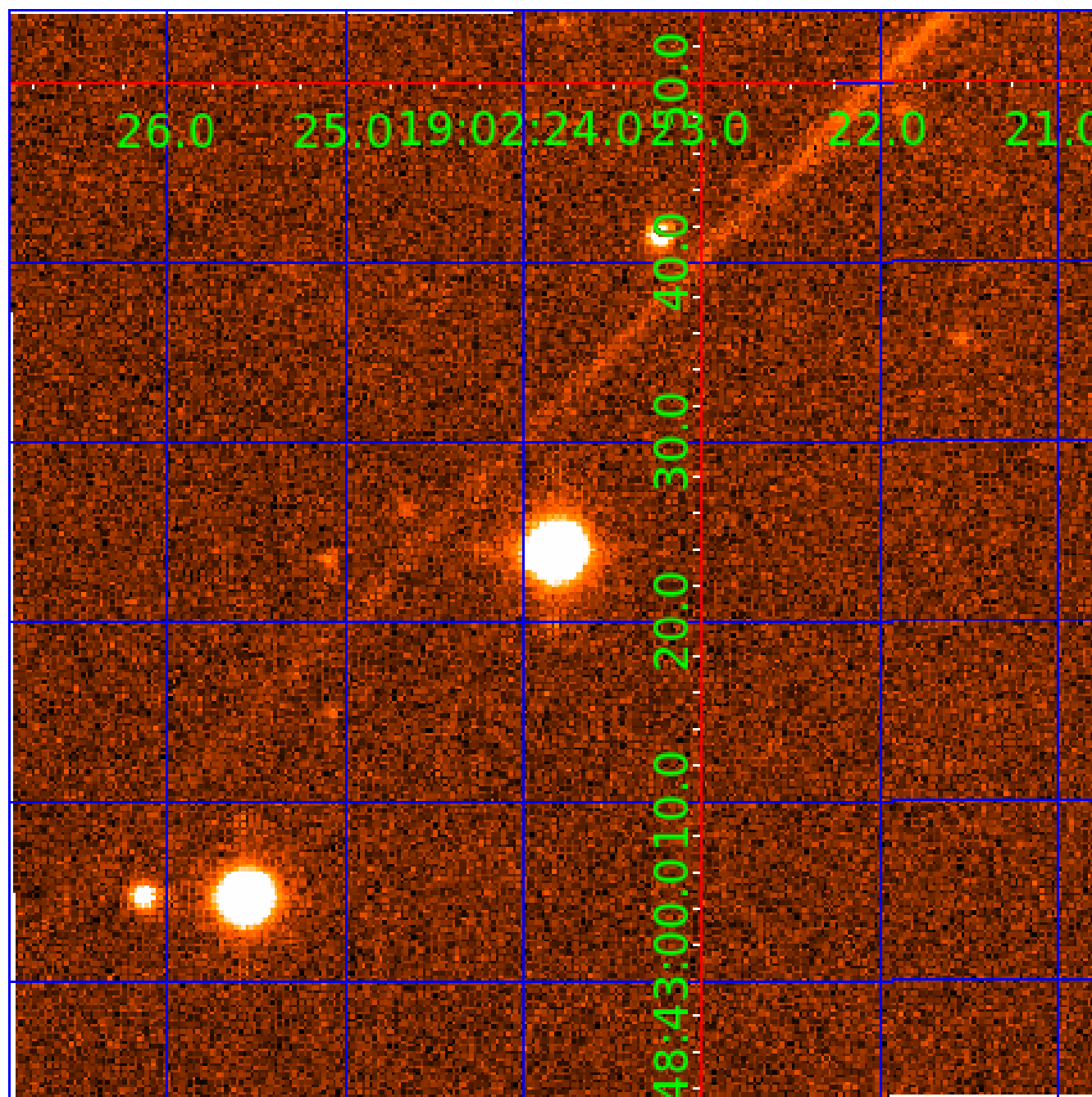


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011126267

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})
011126267-01	OBS	No	367.757549	280.756683	2564.4	8.237	609.3	9.8	0.82	5677	4.12	0.66
011126267-02	OBS	No	362.266585	296.450690	19302.9	15.000	422.2	-1.0	0.82	5677	11.26	0.67
011126267-03	OBS	No	367.824514	282.167632	11132.0	15.000	225.3	-1.0	0.82	5677	8.55	0.66
011126267-04	OBS	No	374.262289	260.184459	132799.4	3.841	193.5	181.2	0.82	5677	42.44	0.64
011126267-05	OBS	No	373.560206	260.348014	45825.8	101.903	238.4	177.6	0.82	5677	24.93	0.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011126267-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—NO_FITS—INCONSISTENT_TRANS—CENT_NOFITS
011126267-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_NOFITS
011126267-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_NOFITS

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

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

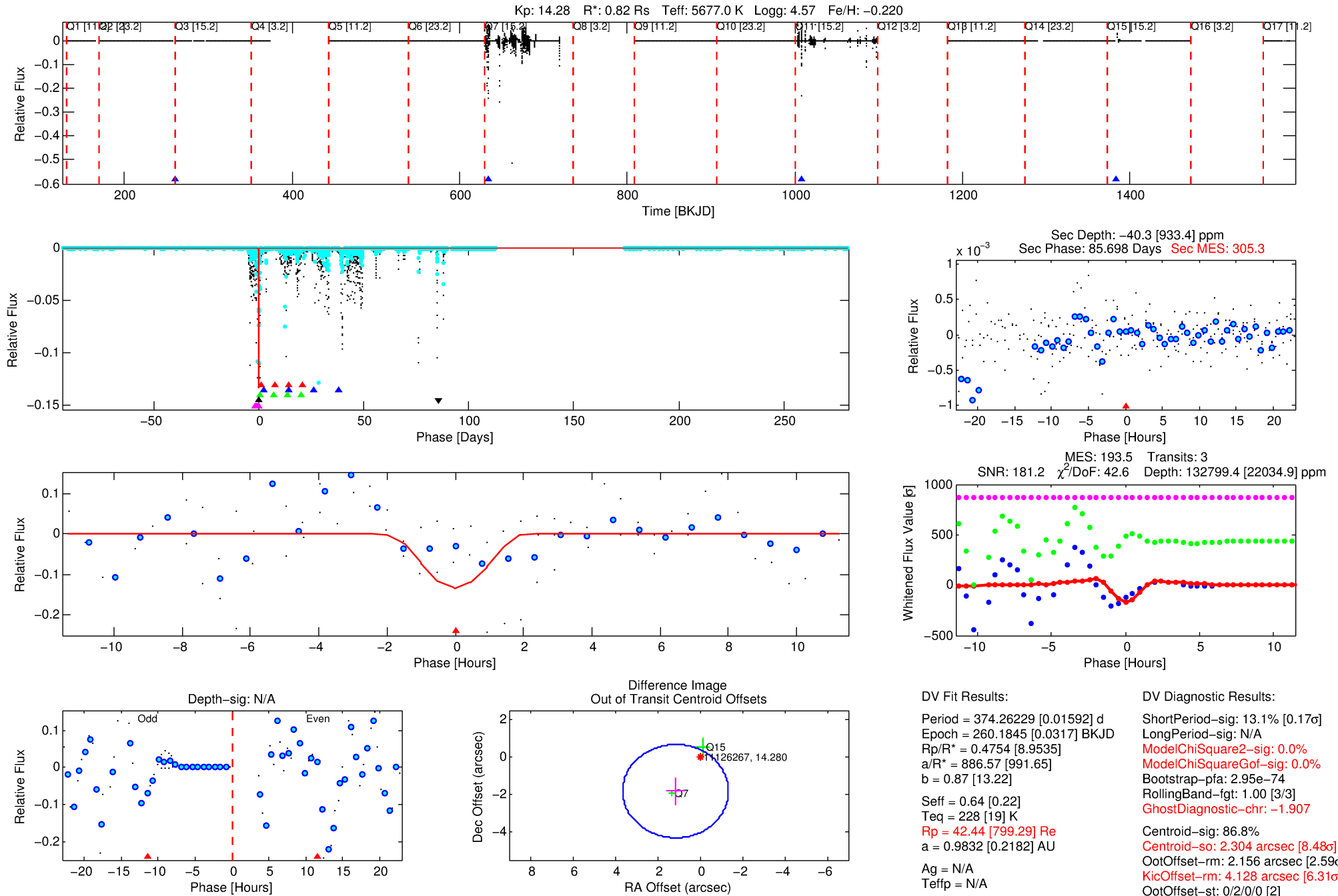
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011126267-04

No Significant Match Found

DV One-Page Summary

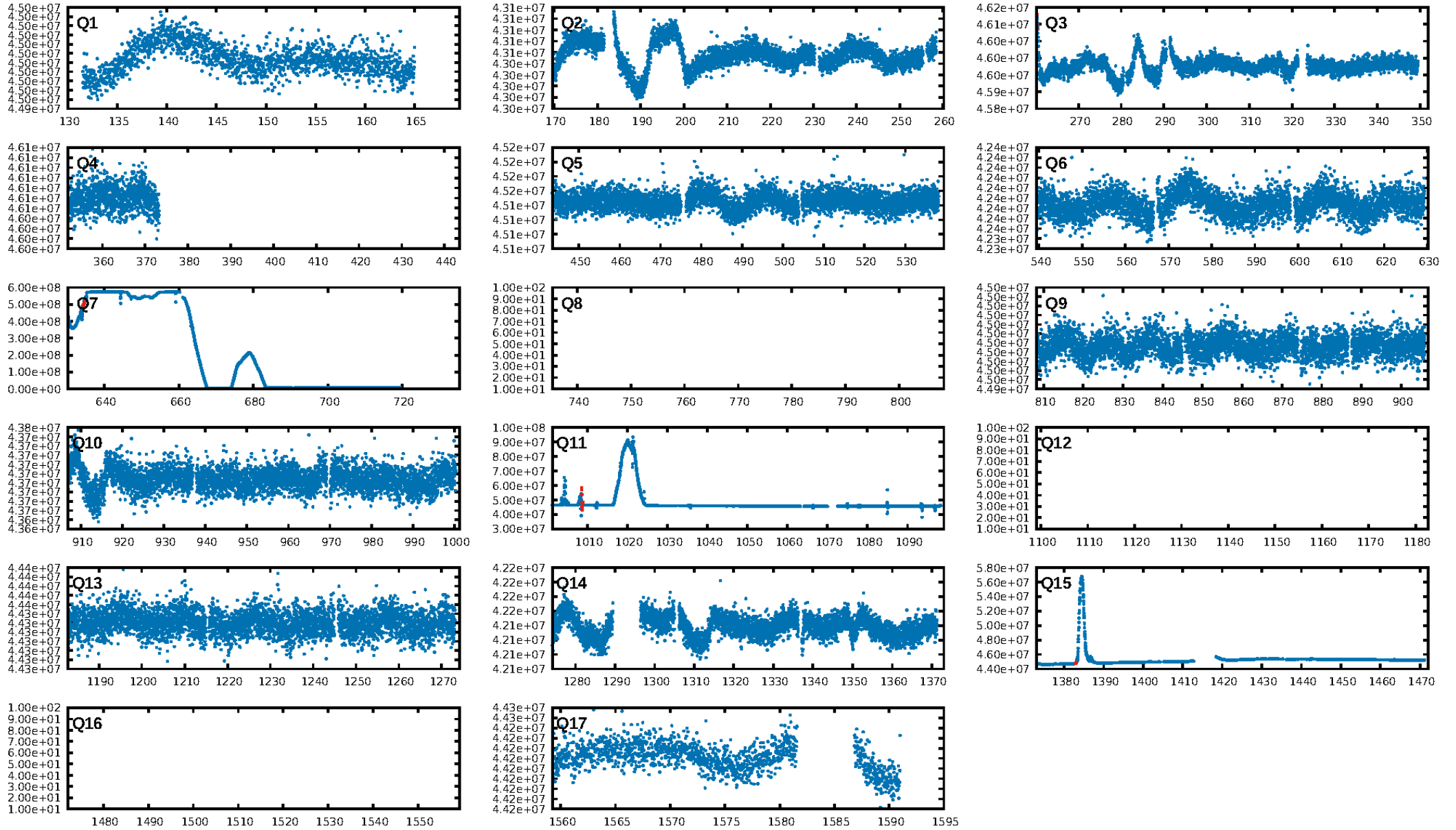
KIC: 11126267 Candidate: 4 of 5 Period: 374.262 d



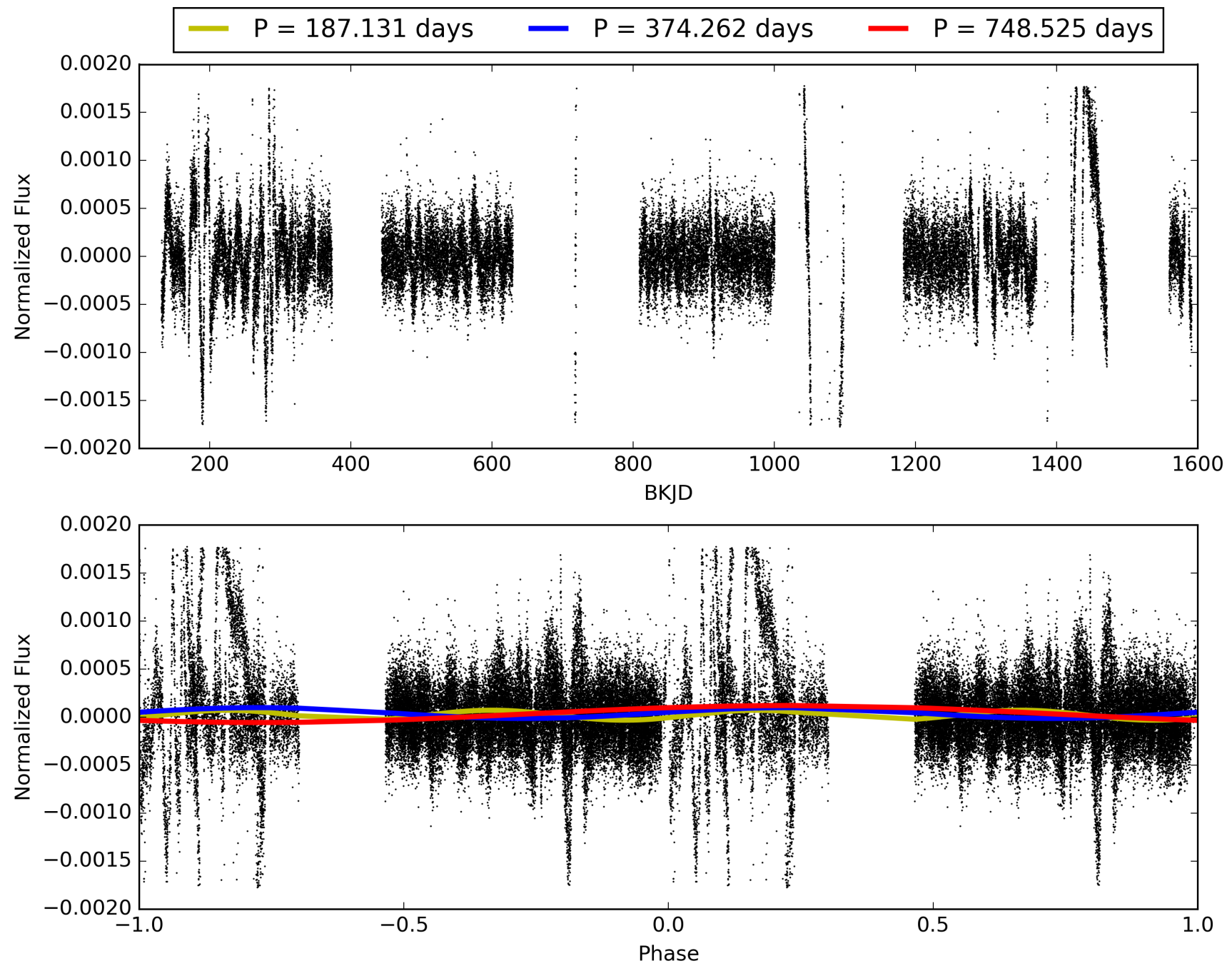
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:23:04 Z

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

TCE 011126267-04, PDC Light Curves

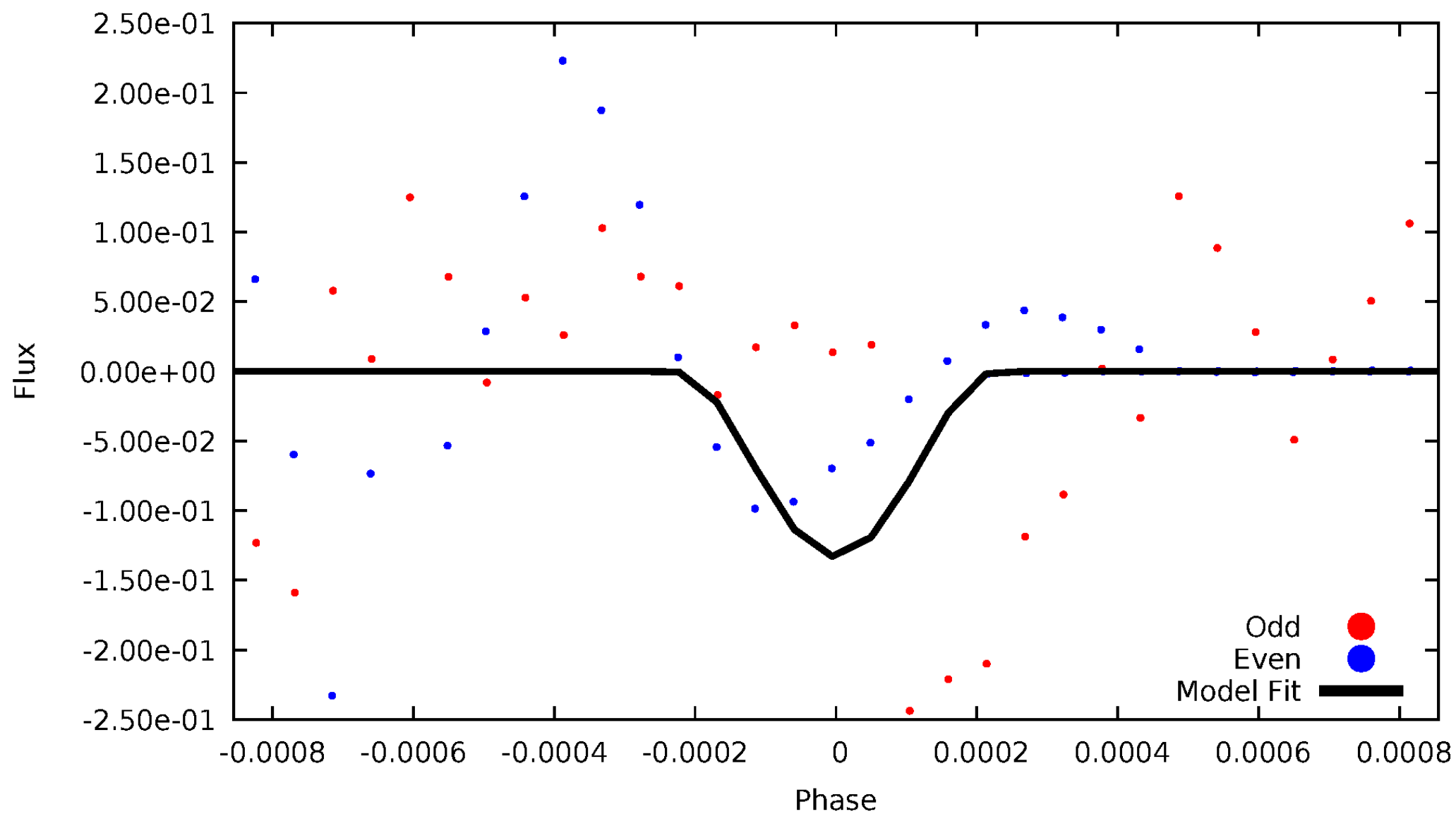


TCE 011126267-04



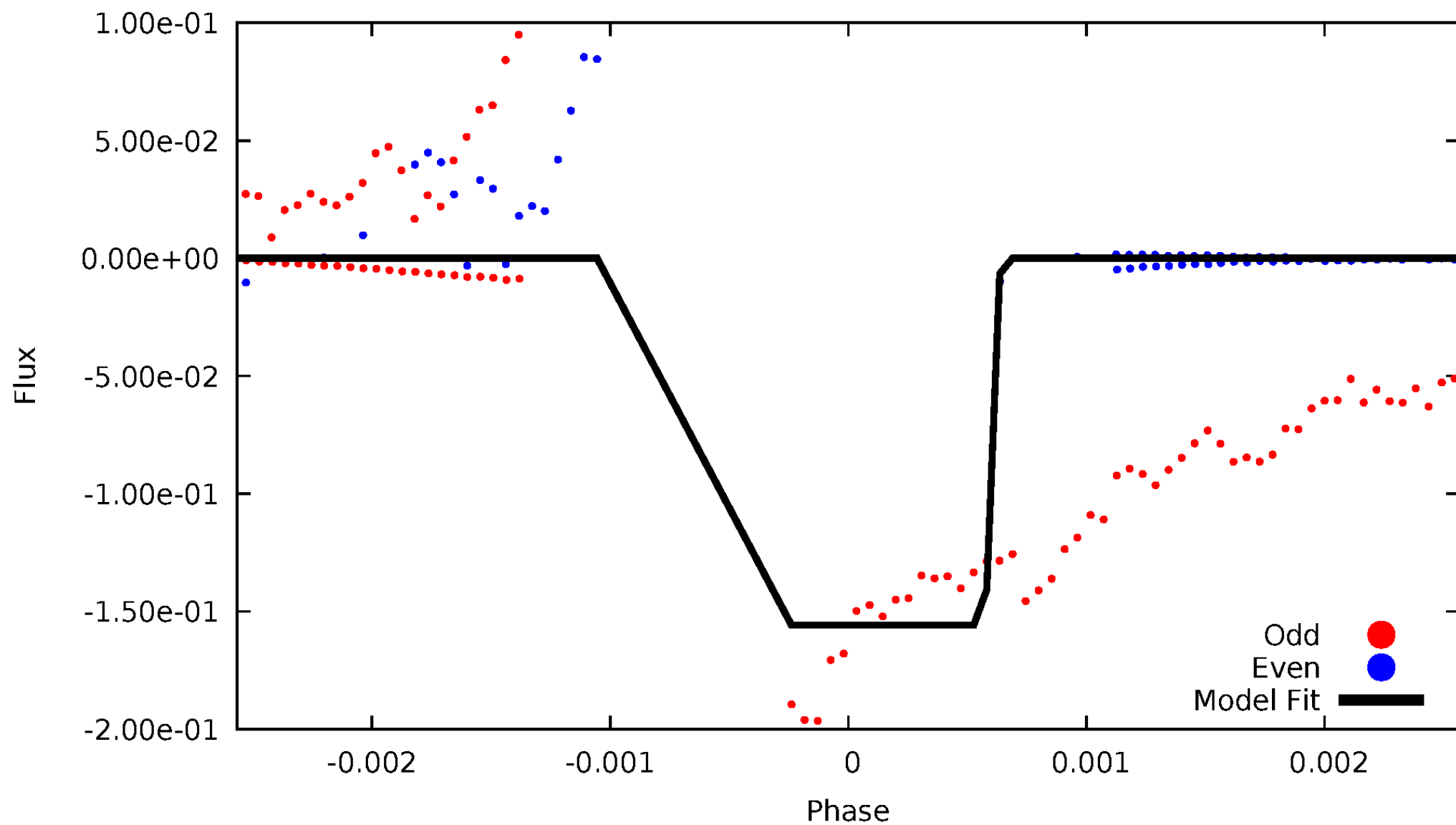
DV Odd/Even

TCE 011126267-04



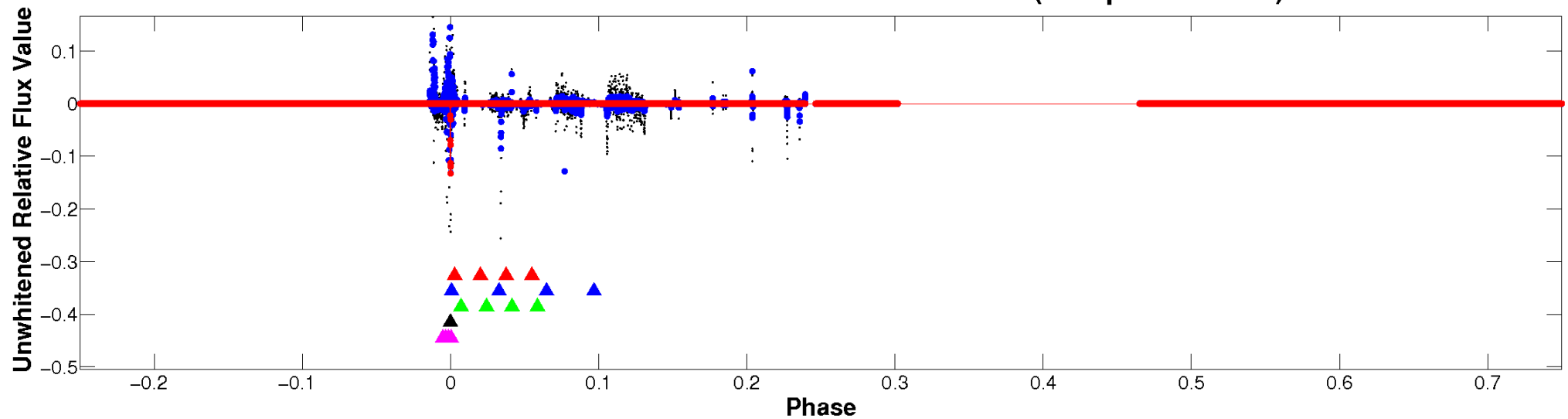
ALT Odd/Even

TCE 011126267-04

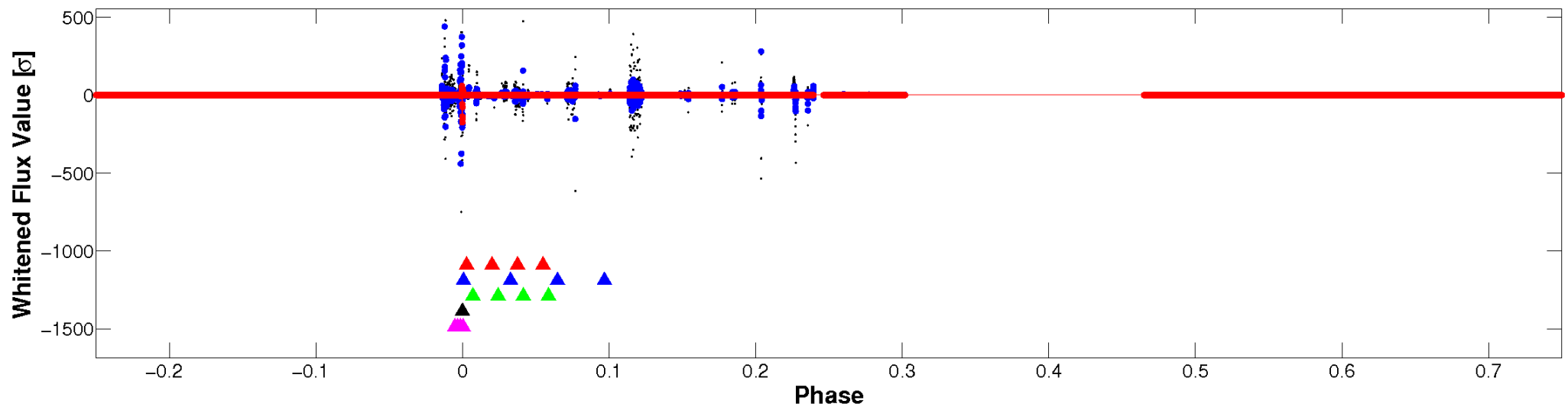


Non-Whitened Vs. Whitened Light Curve

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

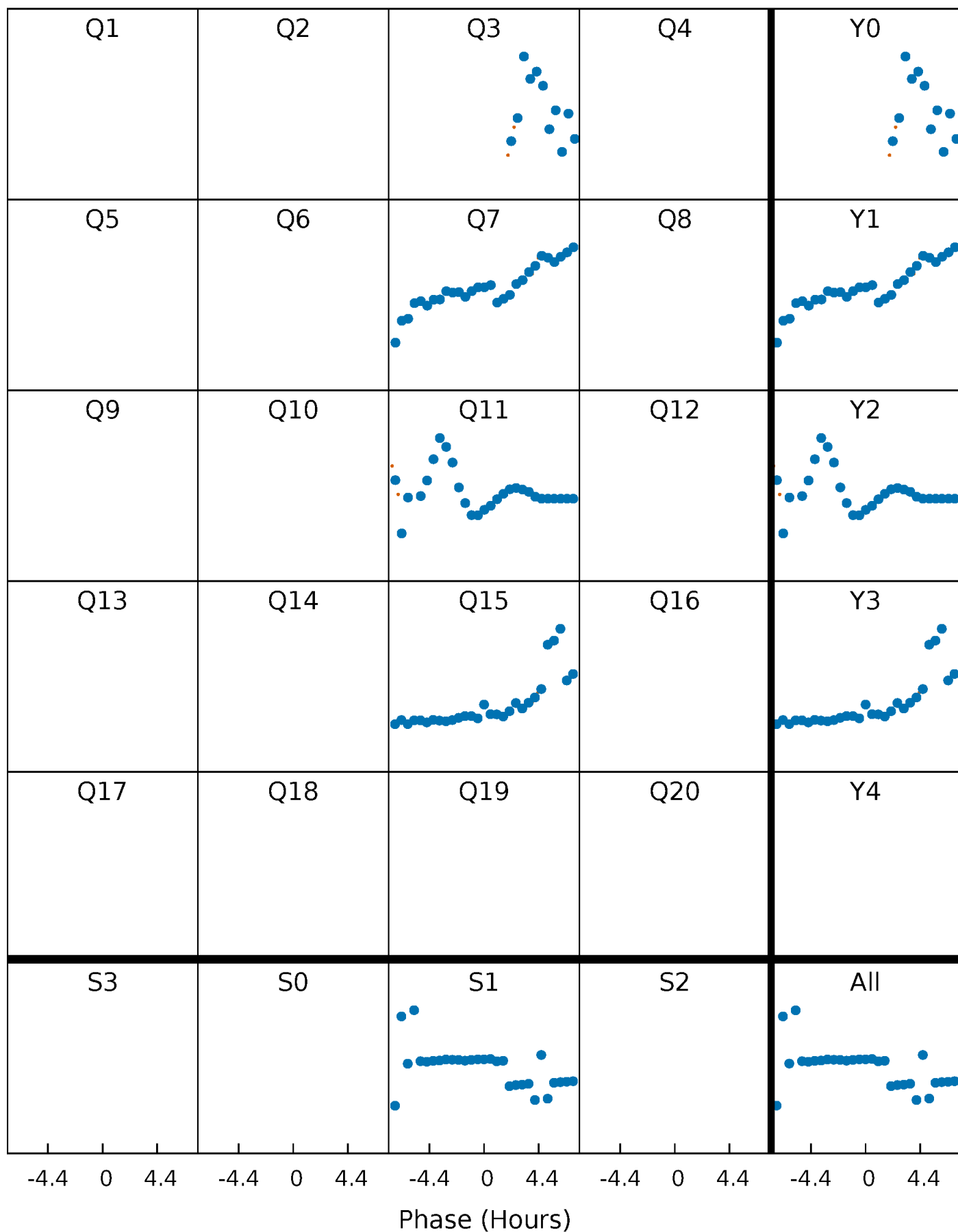


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



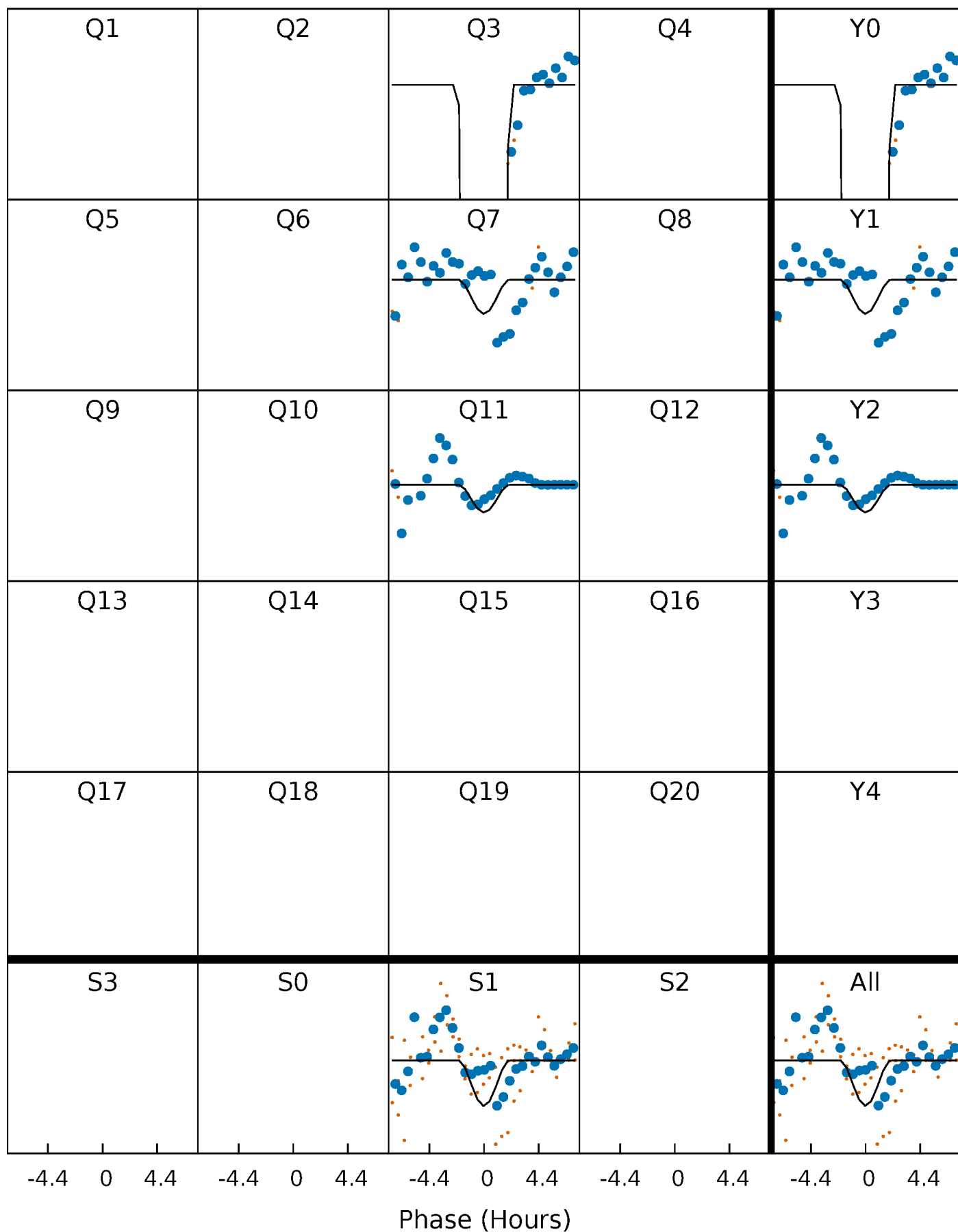
PDC Quarter-Phased Transit Curves

TCE 011126267-04 $P=374.262289$ Days $T_0=260.184459$ (BKJD)



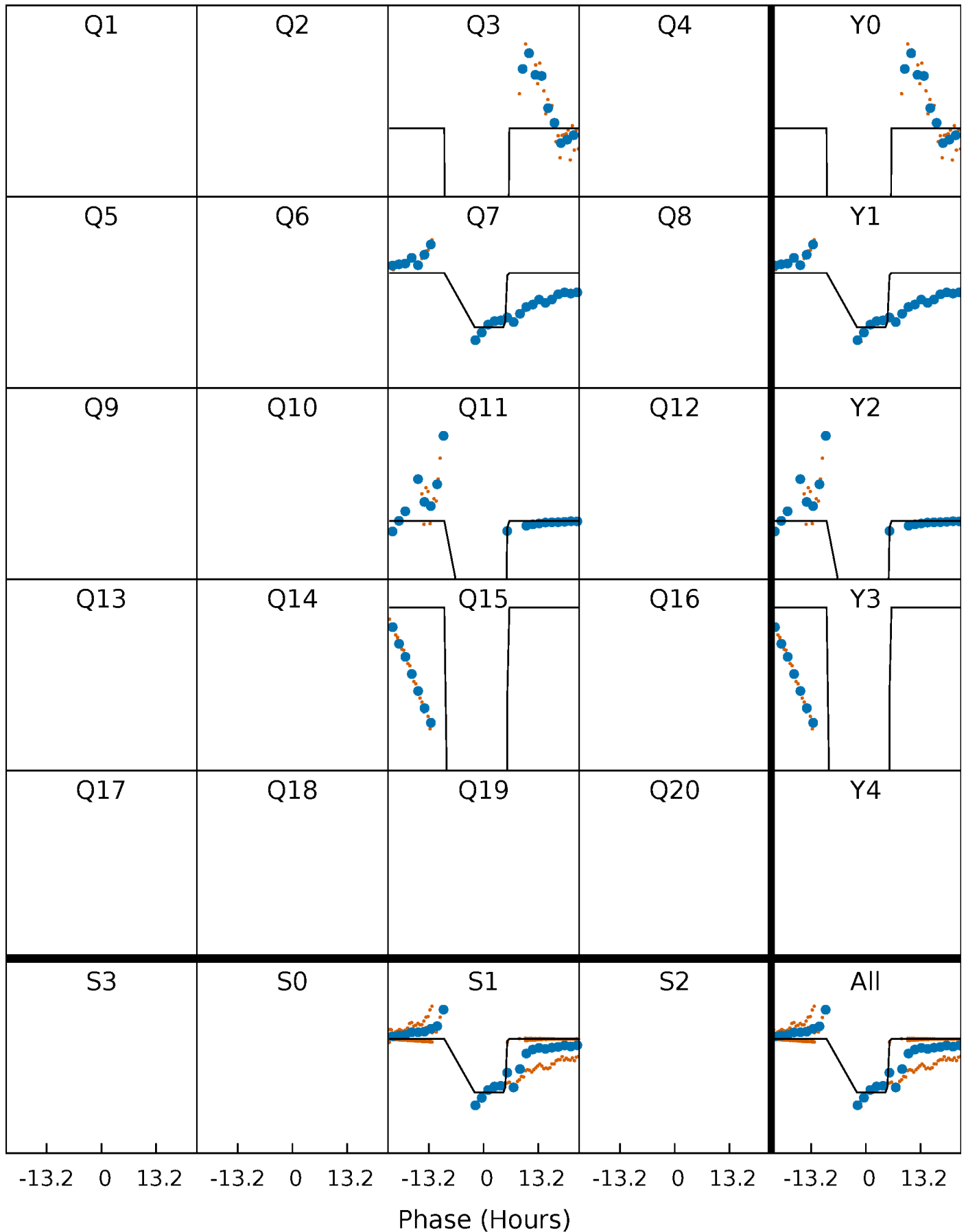
DV Quarter-Phased Transit Curves

TCE 011126267-04 P=374.262289 Days $T_0=260.184459$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

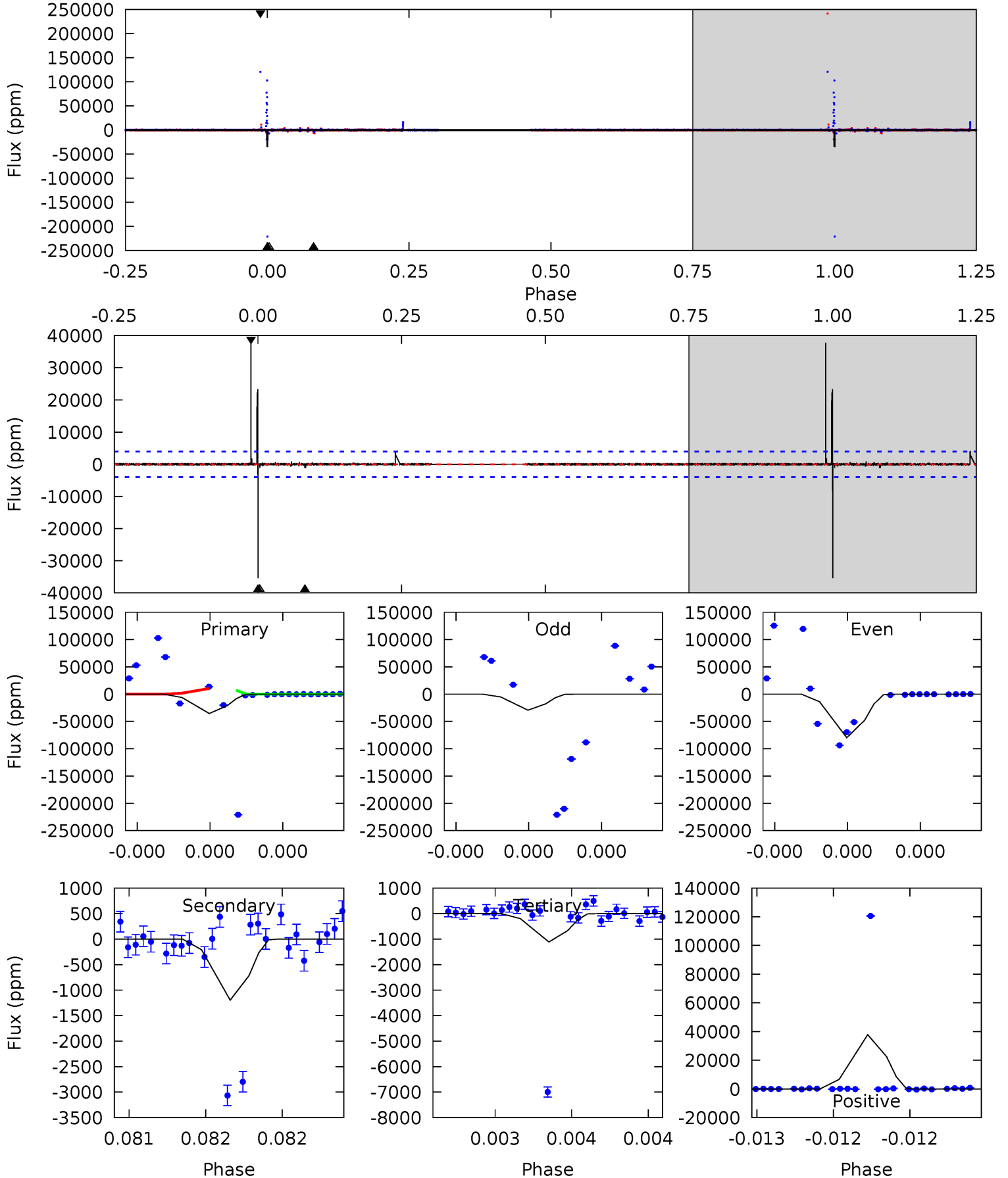
TCE 011126267-04 P=374.301952 Days $T_0=259.905395$ (BKJD)



DV Model-Shift Uniqueness Test

011126267-04, P = 374.262289 Days, E = 260.184459 Days

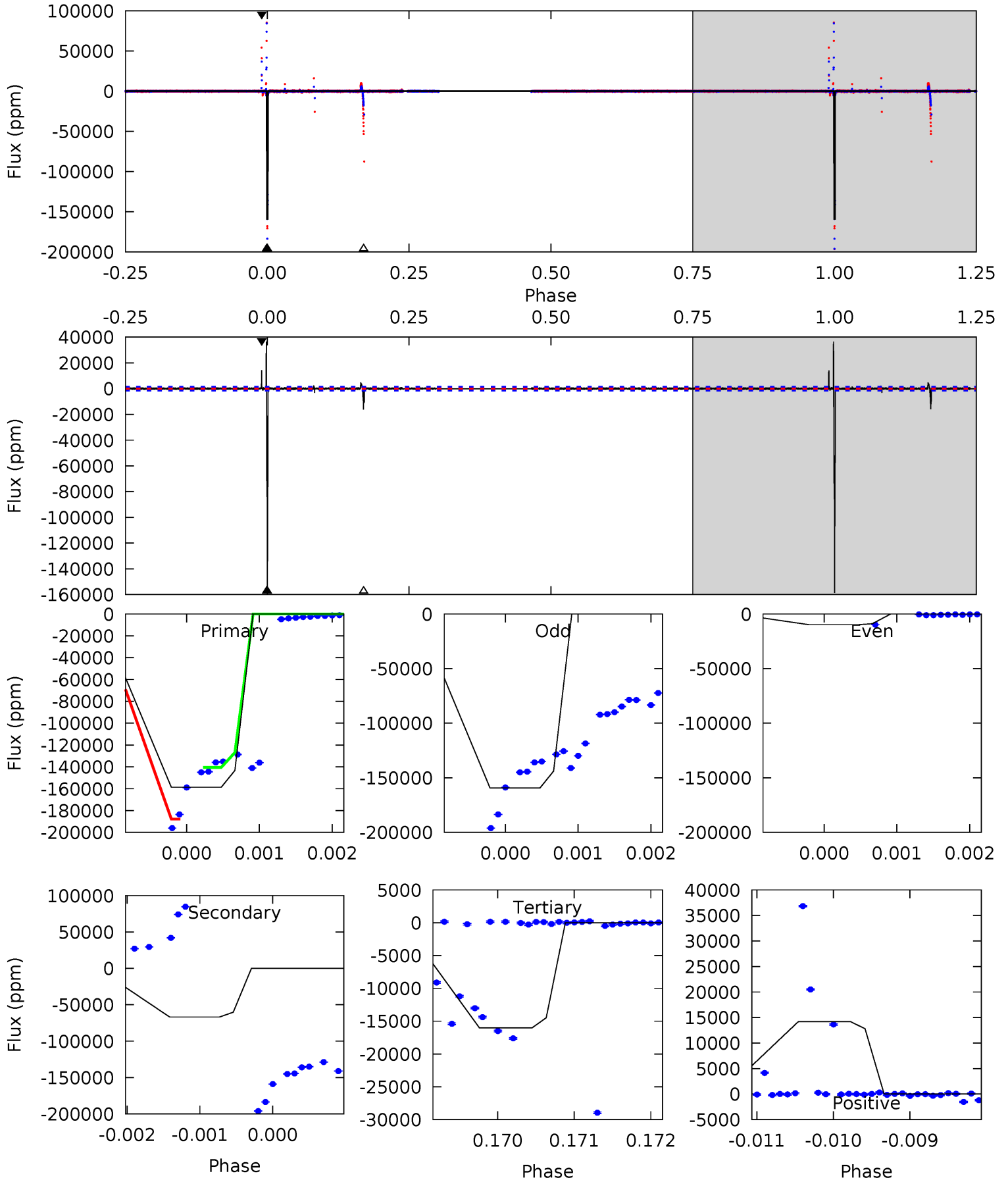
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
49.9	1.69	1.57	53.3	5.60	3.52	0.45	48.3	-3.39	0.12	-51.6	24.9	1.00	0.52	4.43



Alt Model-Shift Uniqueness Test

011126267-04, P = 374.301952 Days, E = 259.905395 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
594.4	250.1	60.1	53.1	5.47	3.33	1.70	534.3	541.3	190.0	197.0	6.83	1.00	0.19	0



Stellar Parameters For KIC 011126267

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5677^{+152}_{-152}	$4.569^{+0.033}_{-0.176}$	$-0.220^{+0.300}_{-0.300}$	$0.818^{+0.216}_{-0.072}$	$0.913^{+0.092}_{-0.102}$	$2.347^{+0.417}_{-1.133}$
	+3%/-3%	+1%/-4%	+136%/-136%	+26%/-9%	+10%/-11%	+18%/-48%
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 011126267-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1196 ± 710	$598.15^{+584.76}_{-415.13}$	327^{+19}_{-14}	1431^{+363}_{-2307}	$1.585^{+15.719}_{-1.285}$
Alt.	-66756 ± 267	$592.45^{+618.39}_{-403.12}$	327^{+18}_{-14}	2142^{+671}_{-297}	110^{+941}_{-84}

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 $A_{obs} \gg 1.0$

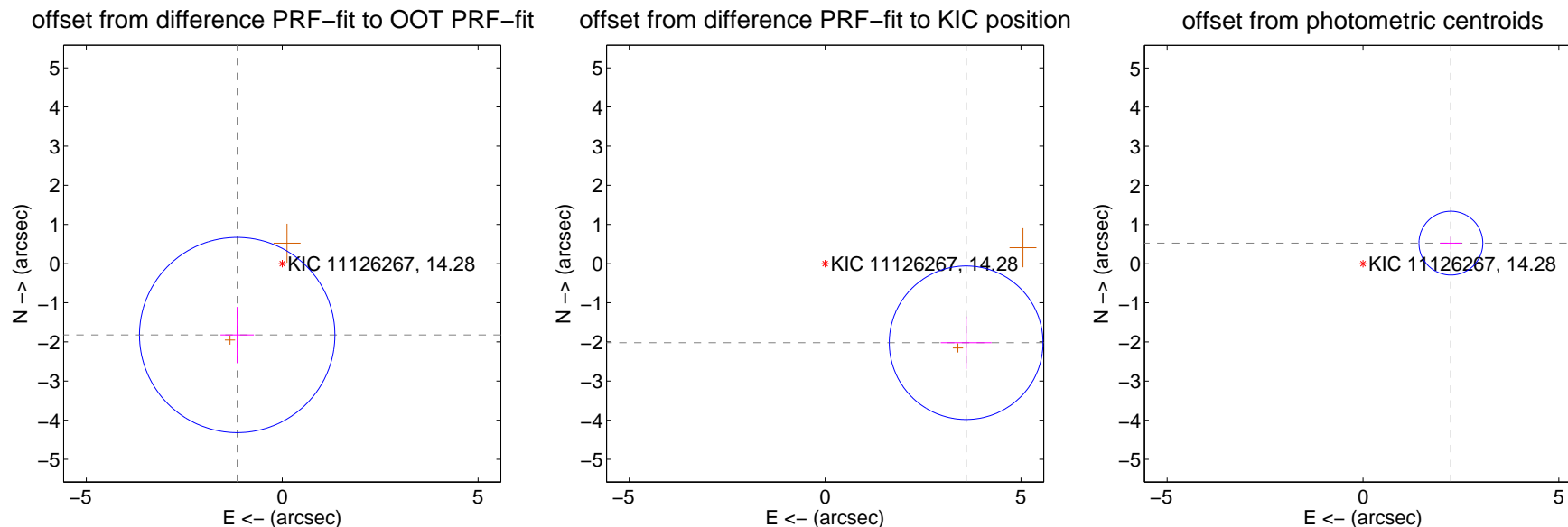
DV Centroid Data

Supplemental centroid analysis for 011126267-04. Kepler magnitude: 14.28. Transit SNR 181.25

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 4.93 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.156 ± 0.831	2.59	1.149 ± 0.426	-1.824 ± 0.717
PRF-fit source offset from KIC position	4.128 ± 0.654	6.31	-3.599 ± 0.648	-2.021 ± 0.670
photometric centroid source offset	2.30 ± 0.27	8.48	-2.24 ± 0.28	0.52 ± 0.16

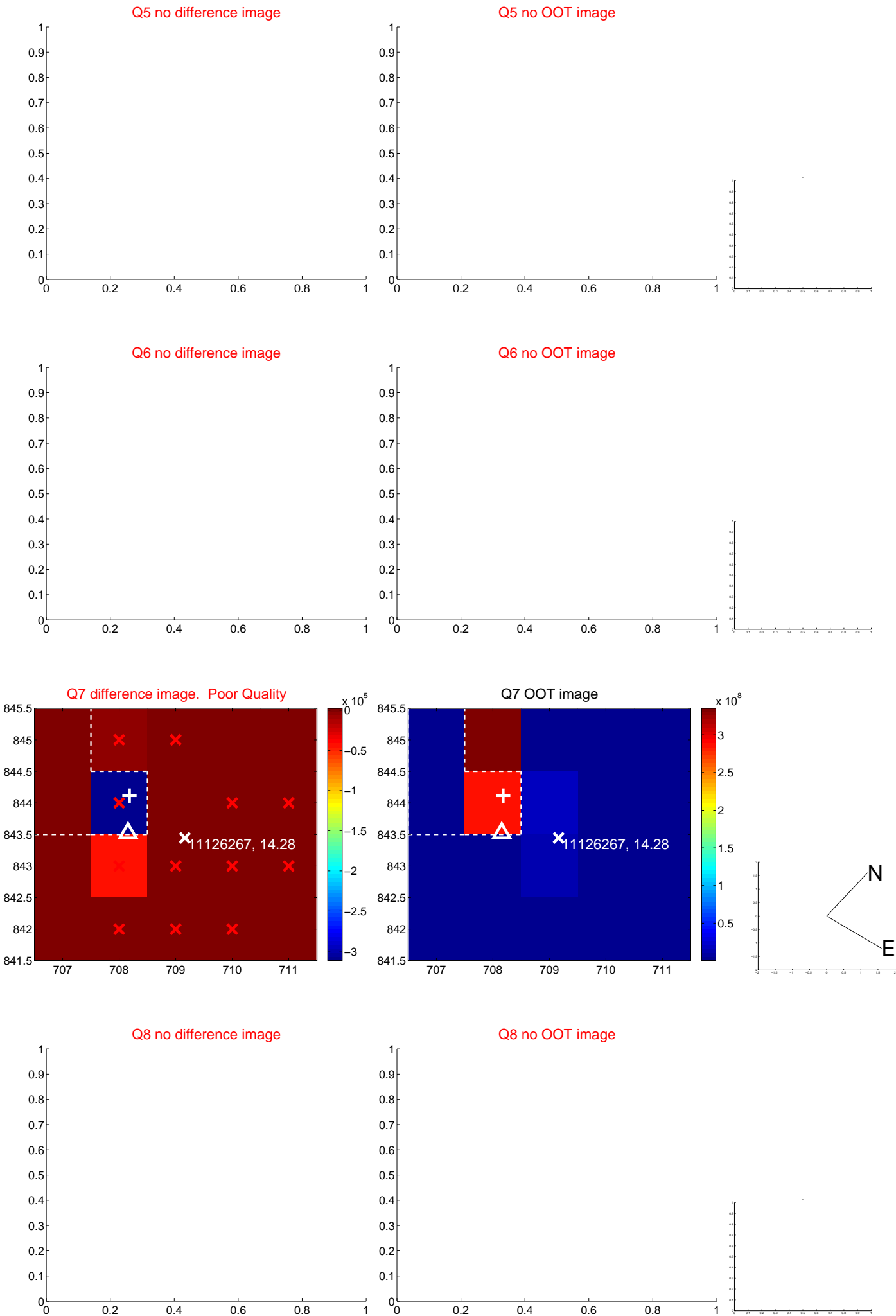


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



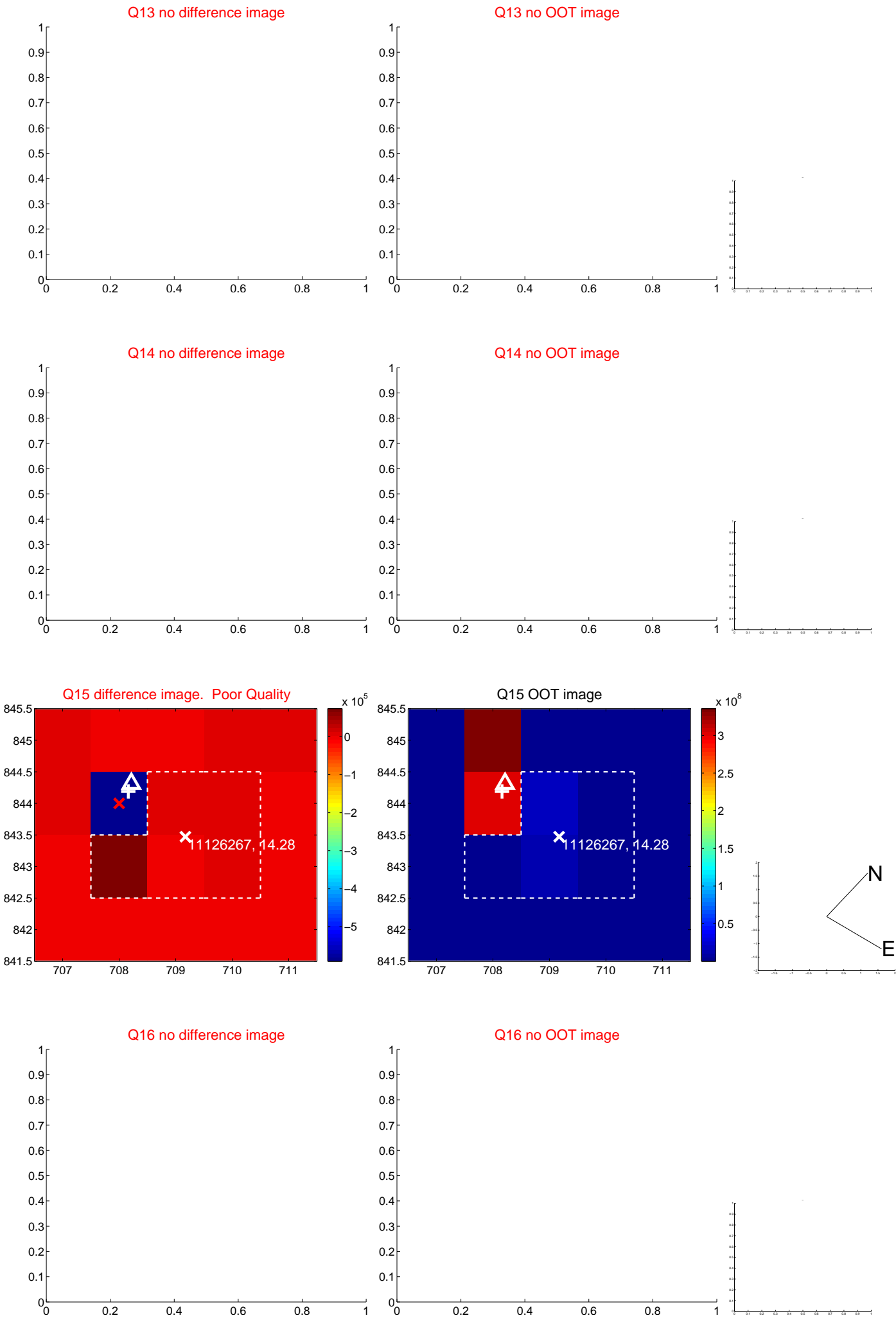
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



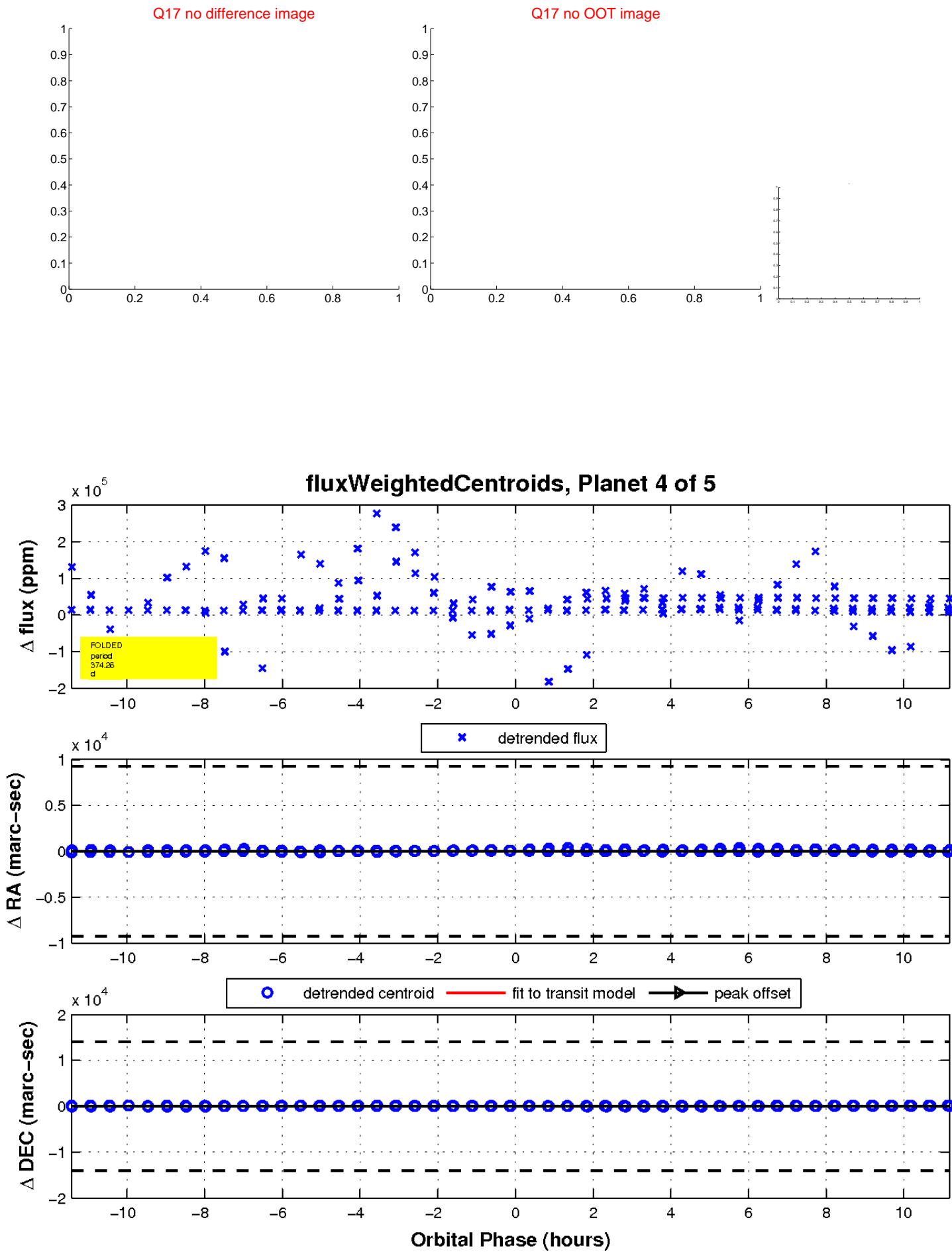
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

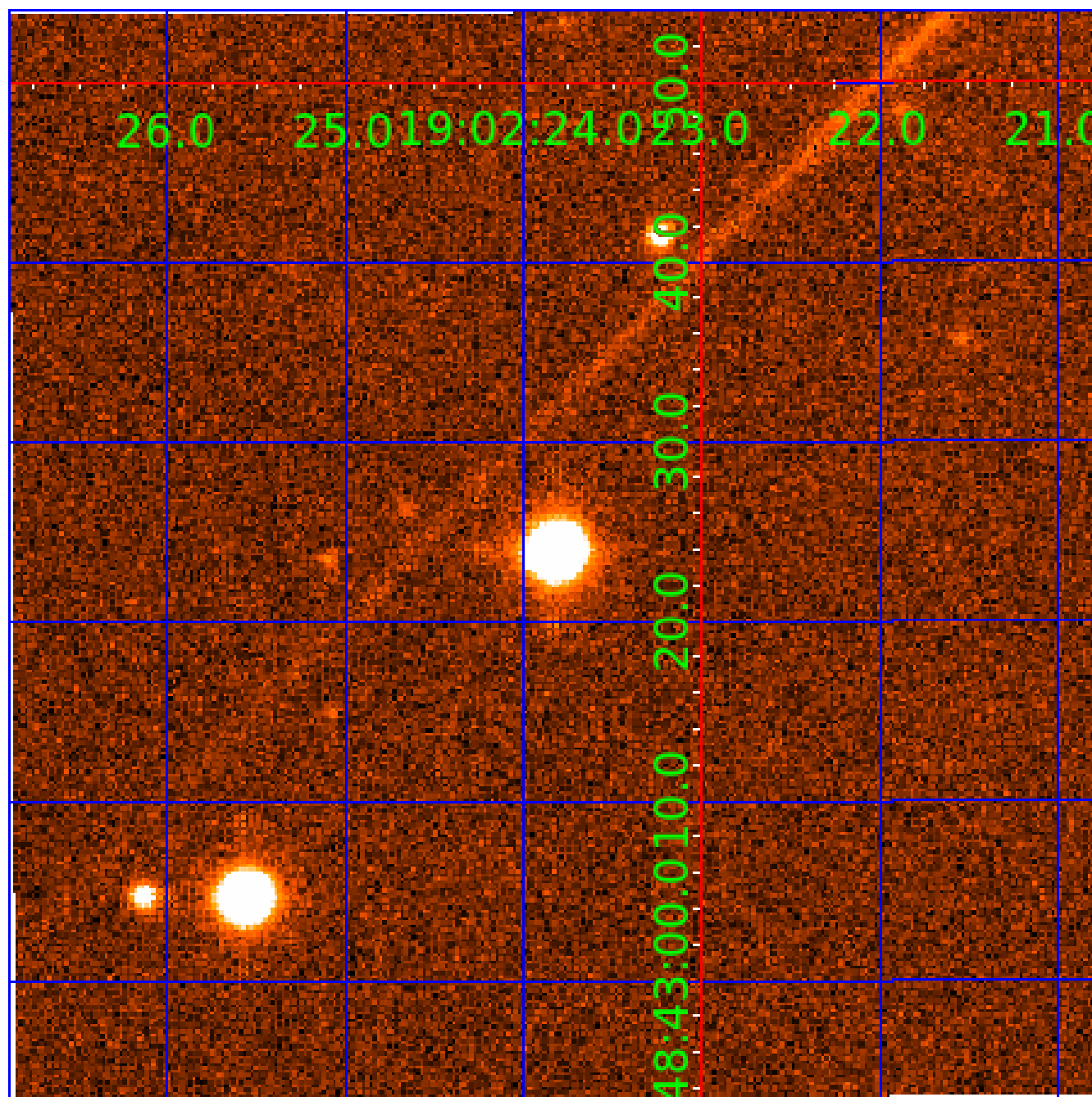


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011126267

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})
011126267-01	OBS	No	367.757549	280.756683	2564.4	8.237	609.3	9.8	0.82	5677	4.12	0.66
011126267-02	OBS	No	362.266585	296.450690	19302.9	15.000	422.2	-1.0	0.82	5677	11.26	0.67
011126267-03	OBS	No	367.824514	282.167632	11132.0	15.000	225.3	-1.0	0.82	5677	8.55	0.66
011126267-04	OBS	No	374.262289	260.184459	132799.4	3.841	193.5	181.2	0.82	5677	42.44	0.64
011126267-05	OBS	No	373.560206	260.348014	45825.8	101.903	238.4	177.6	0.82	5677	24.93	0.65

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011126267-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—LPP_ALT—NO_FITS—INCONSISTENT_TRANS—CENT_NOFITS
011126267-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_NOFITS
011126267-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011126267-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_SKYE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—CENT_NOFITS

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

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

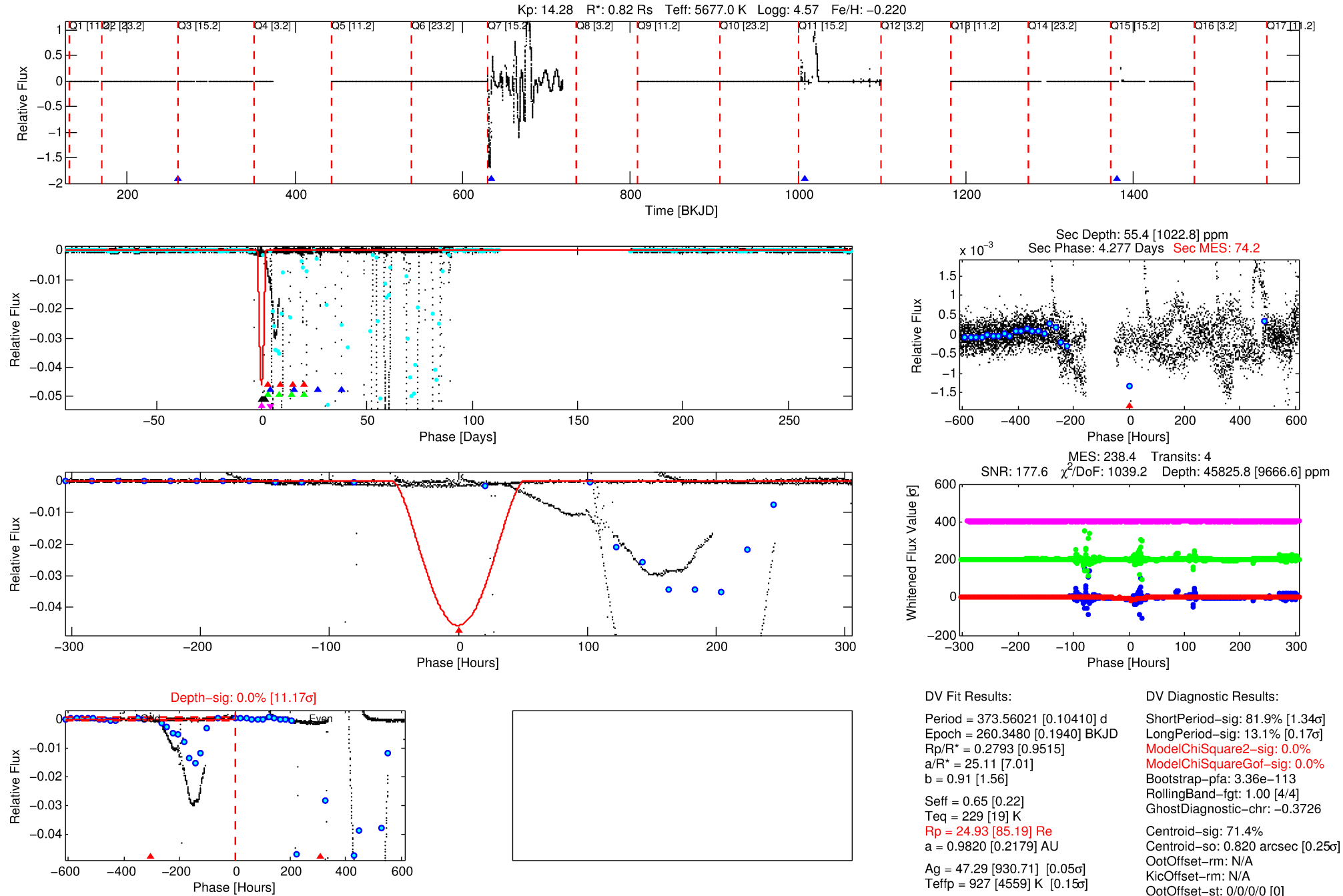
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011126267-05

No Significant Match Found

DV One-Page Summary

KIC: 11126267 Candidate: 5 of 5 Period: 373.560 d



DV Fit Results:

Period = 373.56021 [0.10410] d
Epoch = 260.3480 [0.1940] BKJD
Rp/R* = 0.2793 [0.9515]
a/R* = 25.11 [7.01]
b = 0.91 [1.56]
Seff = 0.65 [0.22]
Teq = 229 [19] K
Rp = 24.93 [85.19] Re
a = 0.9820 [0.2179] AU
Ag = 47.29 [930.71] [0.05 σ]
Teffp = 927 [4559] K [0.15 σ]

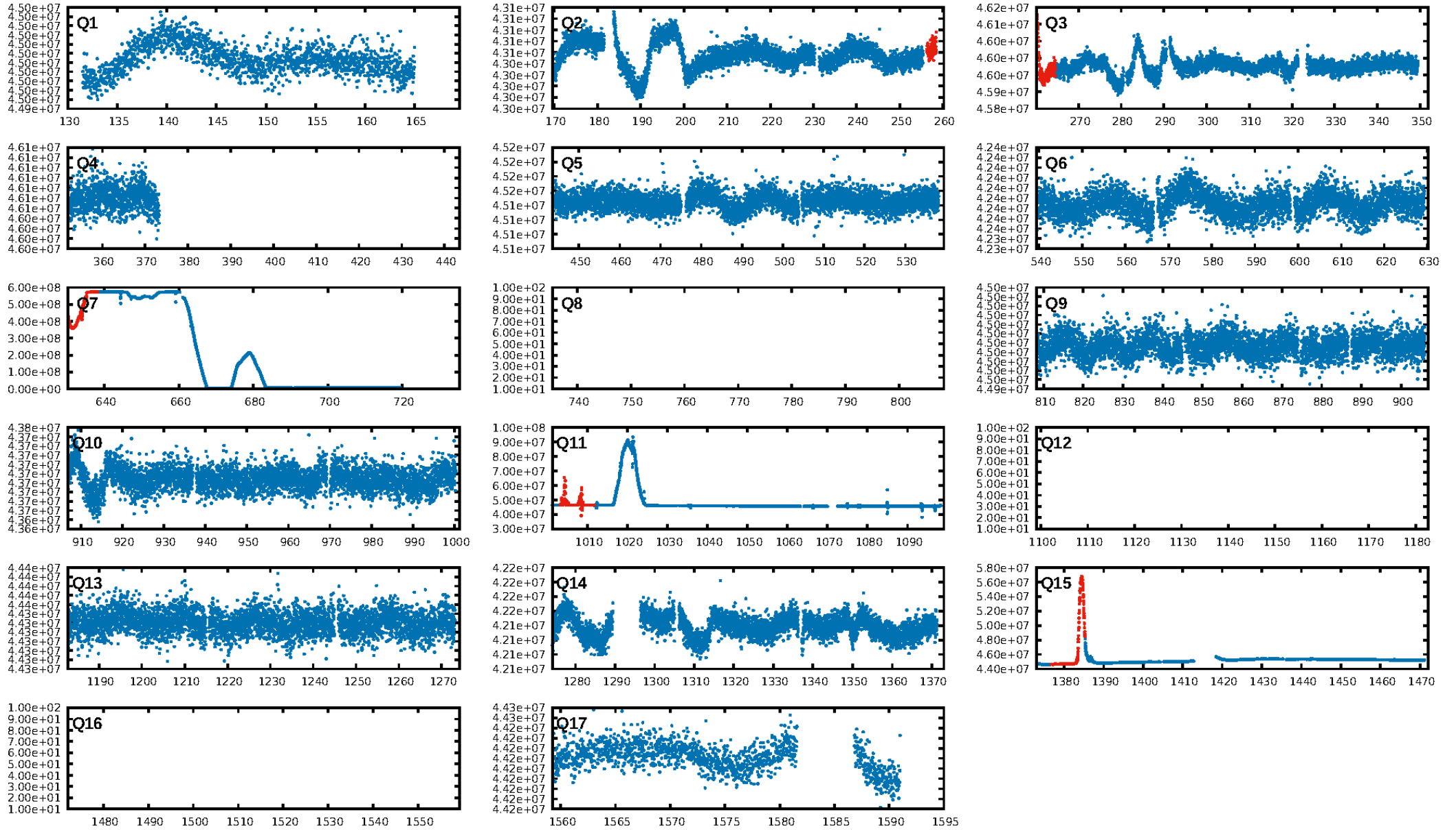
DV Diagnostic Results:

ShortPeriod-sig: 81.9% [1.34 σ]
LongPeriod-sig: 13.1% [0.17 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 0.0%
Bootstrap-pfa: 3.36e-113
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.3726
Centroid-sig: 71.4%
Centroid-so: 0.820 arcsec [0.25 σ]
OotOffset-rm: N/A
KicOffset-rm: N/A
OotOffset-st: 0/0/0 [0]
KicOffset-st: 0/0/0 [0]
DiffImageQuality-fgm: N/A
DiffImageOverlap-fno: N/A

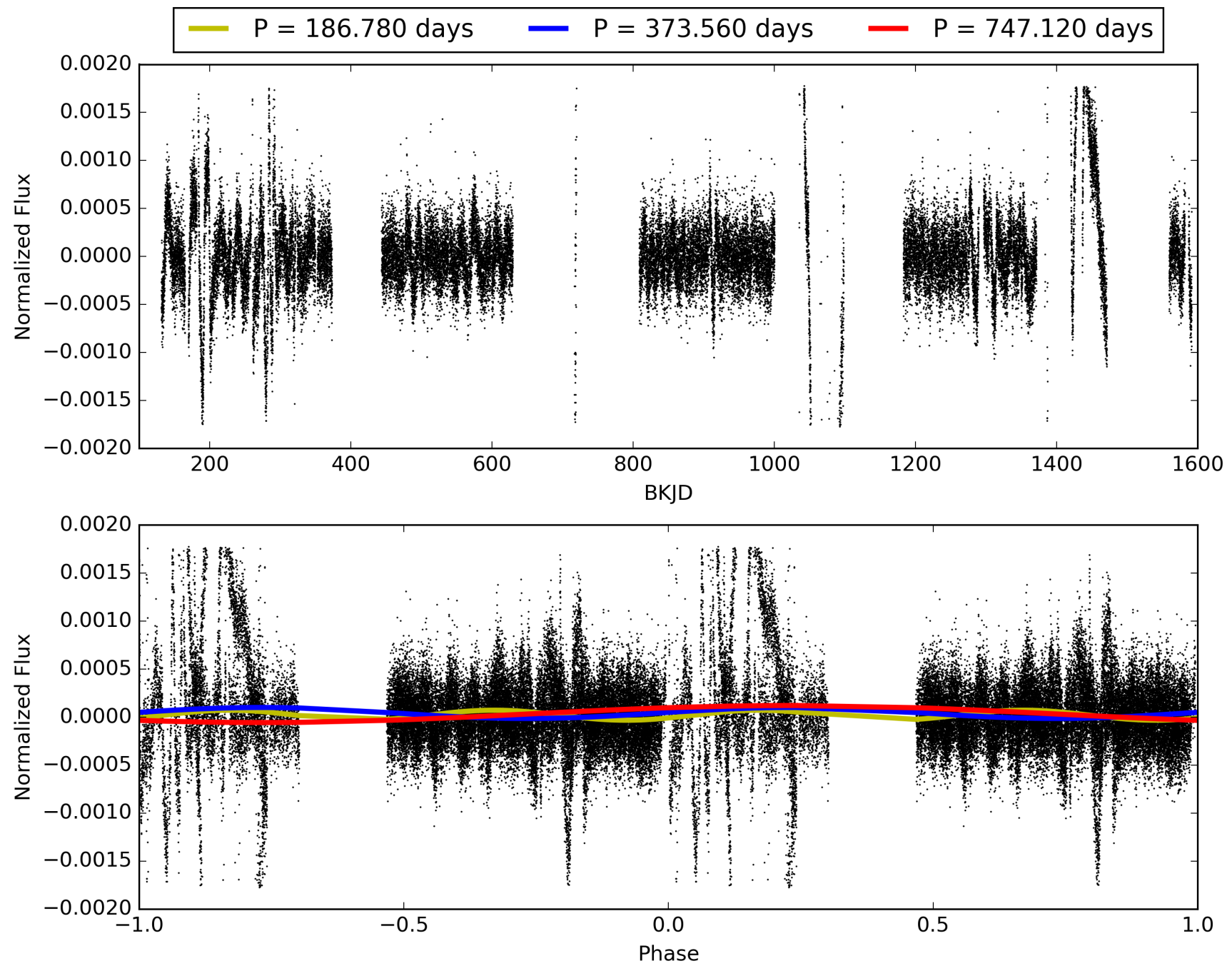
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 01:23:11 Z

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

TCE 011126267-05, PDC Light Curves

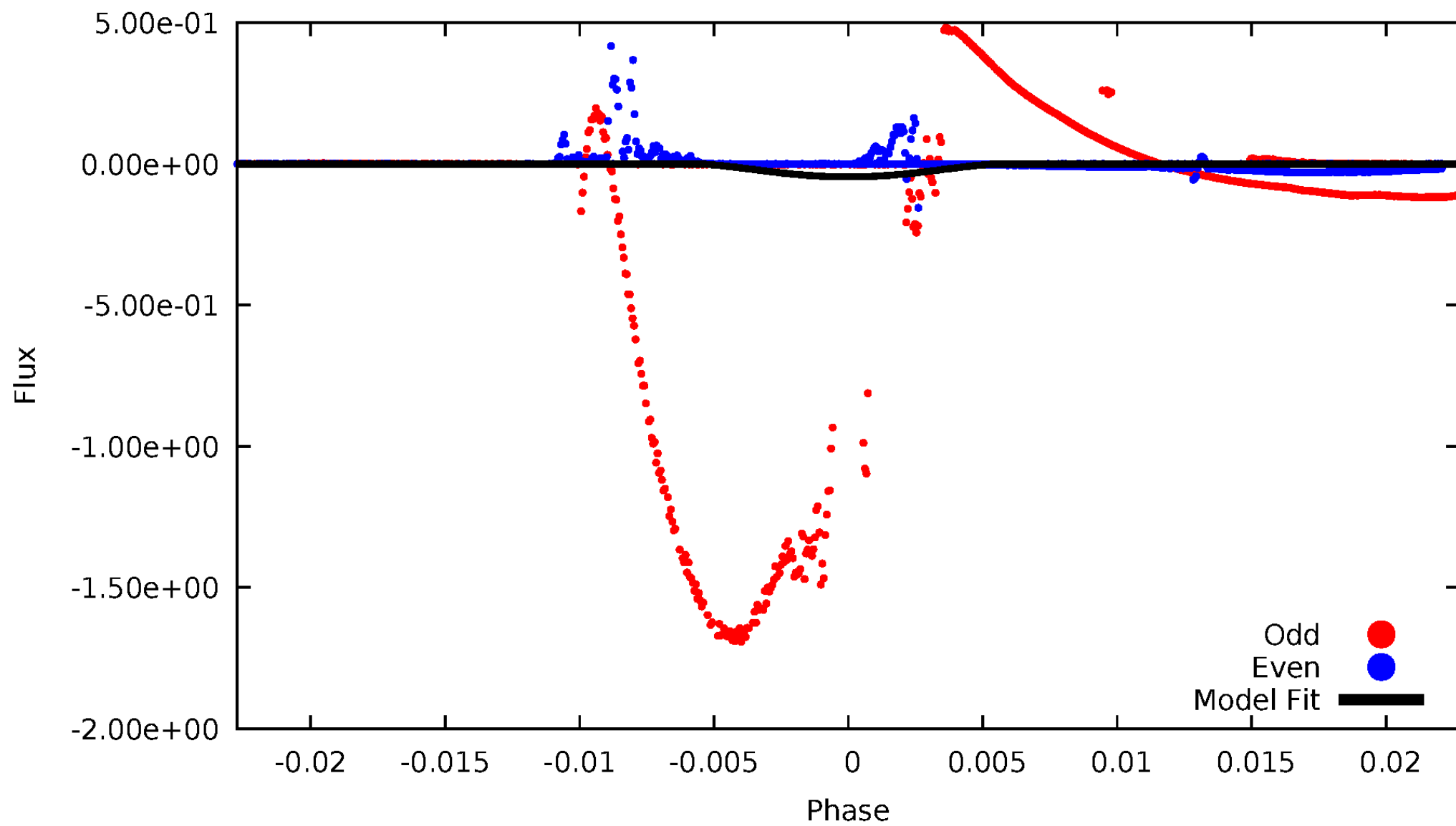


TCE 011126267-05



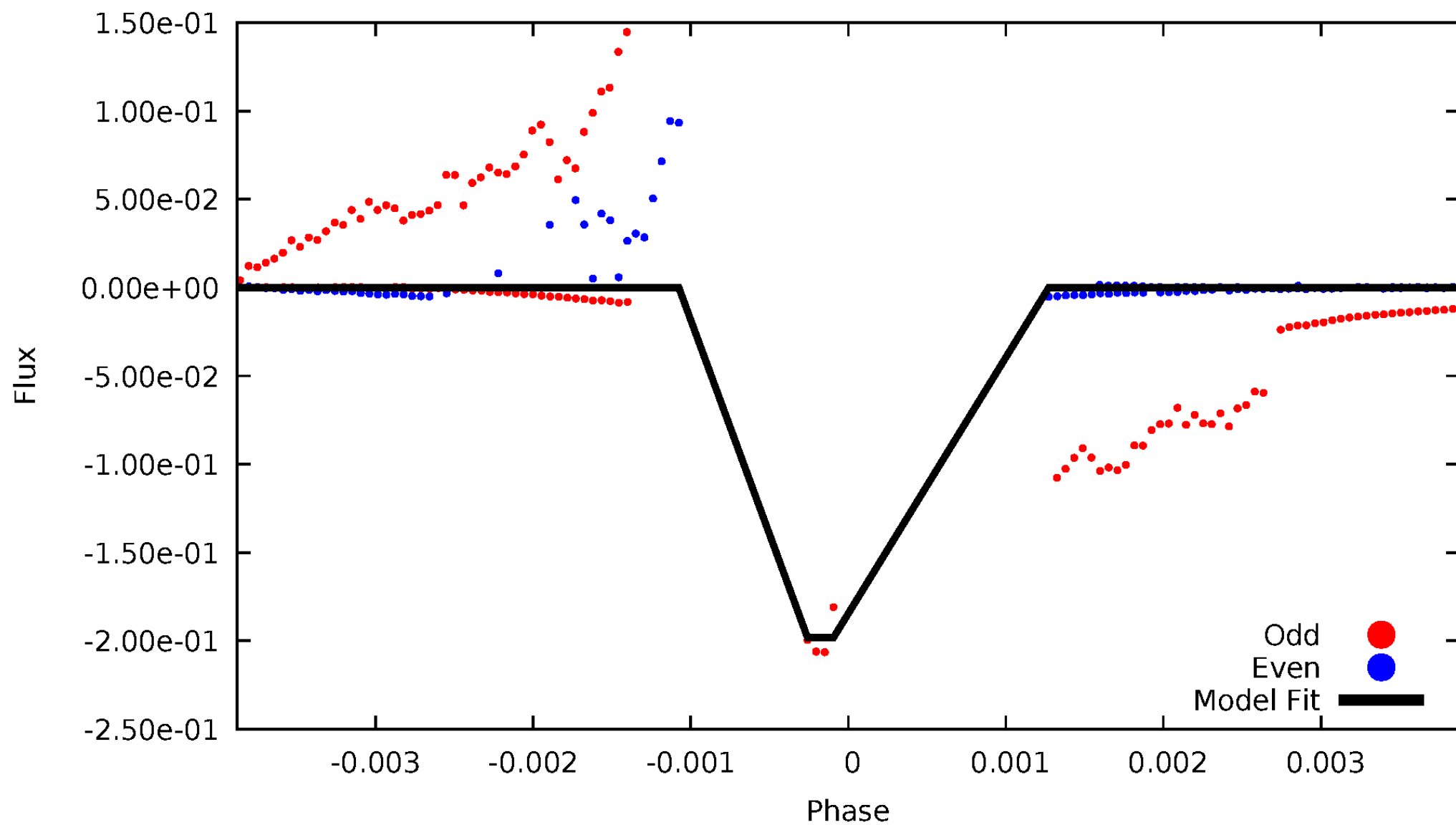
DV Odd/Even

TCE 011126267-05



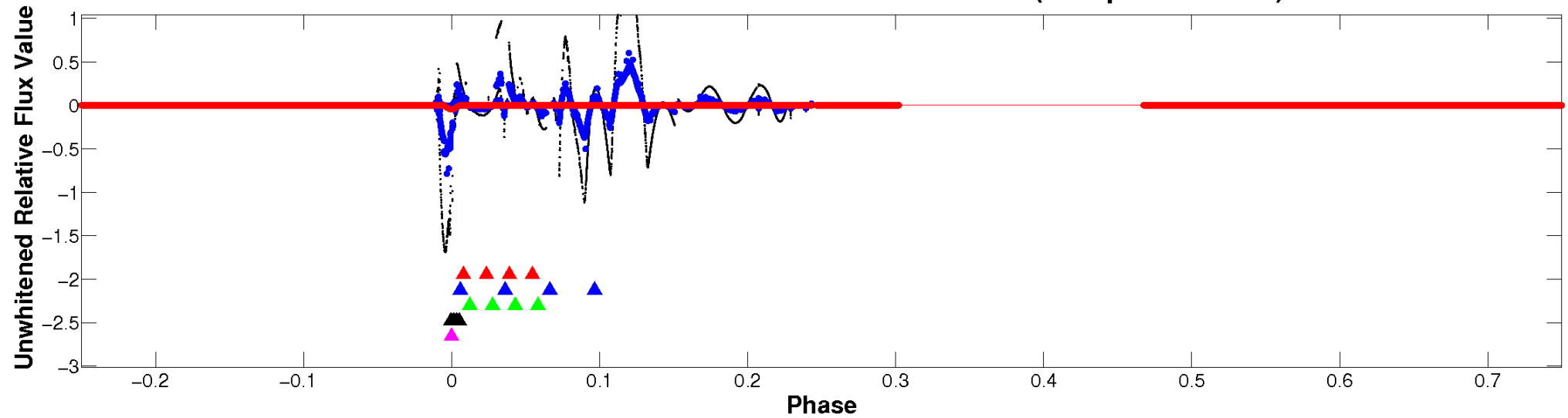
ALT Odd/Even

TCE 011126267-05

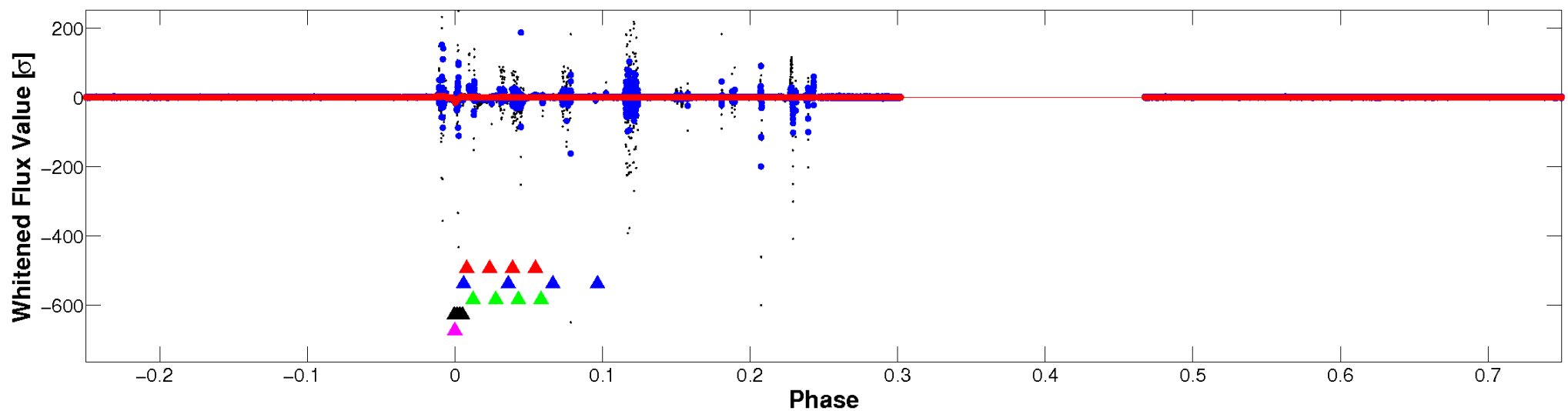


Non-Whitened Vs. Whitened Light Curve

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

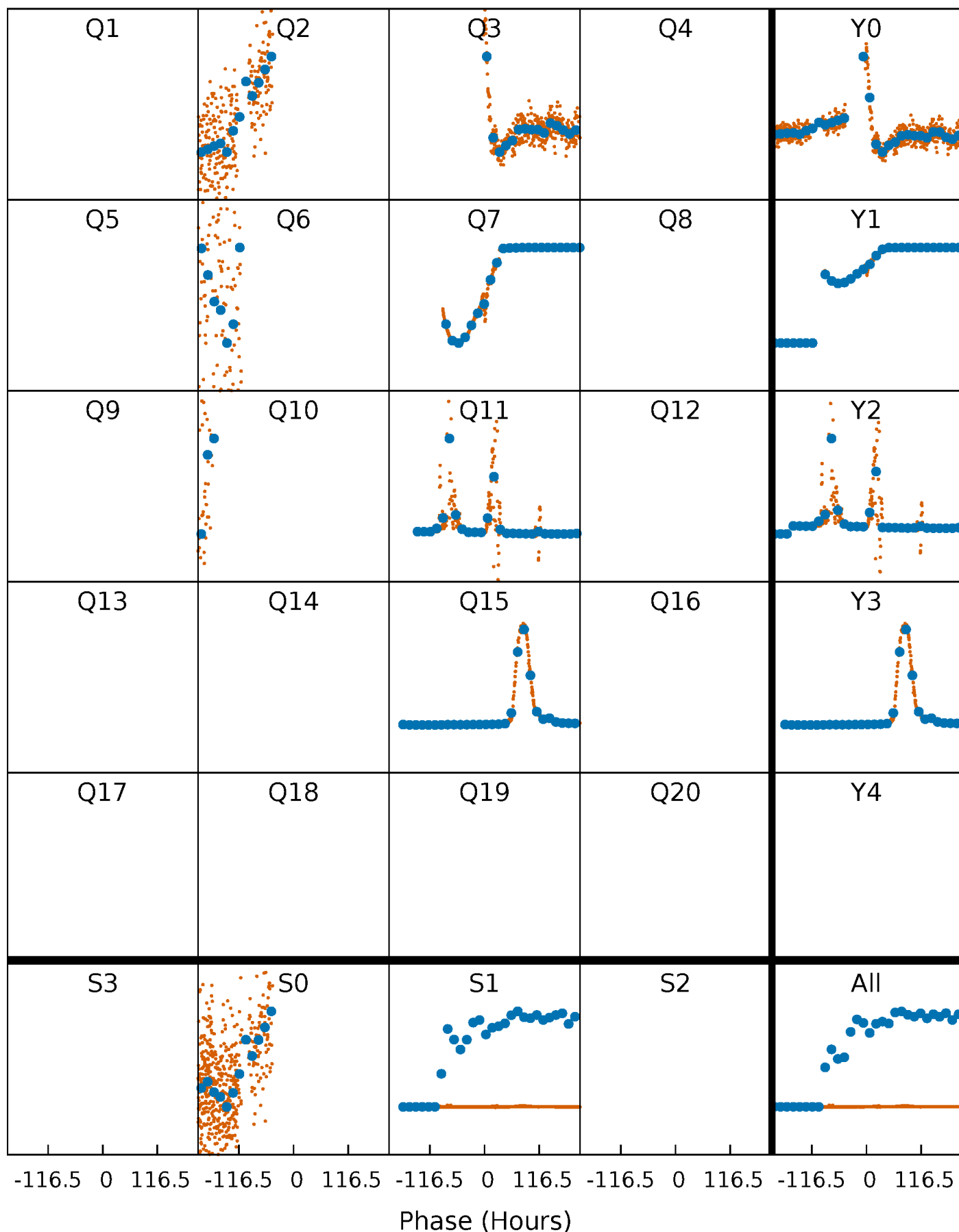


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



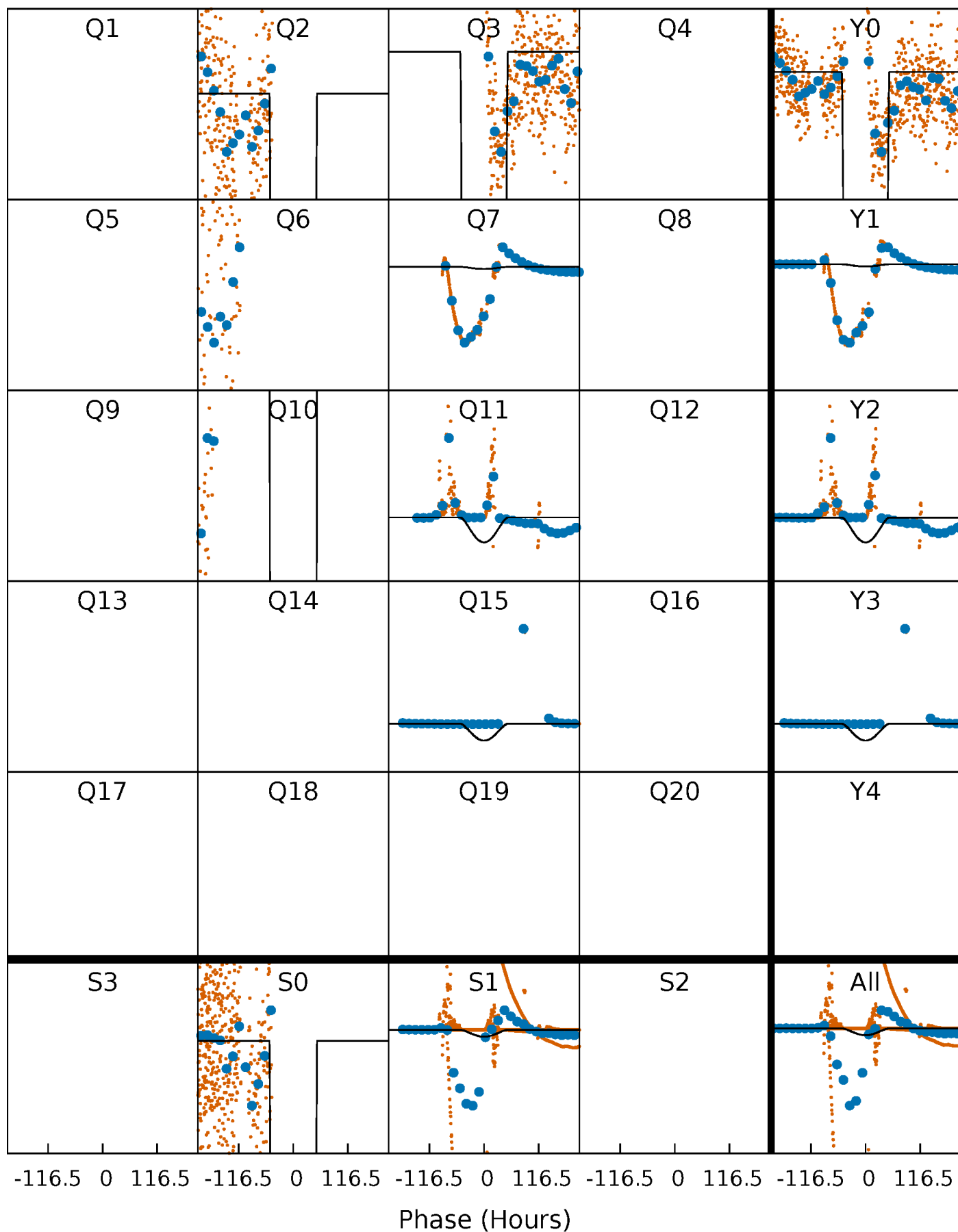
PDC Quarter-Phased Transit Curves

TCE 011126267-05 $P=373.560206$ Days $T_0=260.348014$ (BKJD)



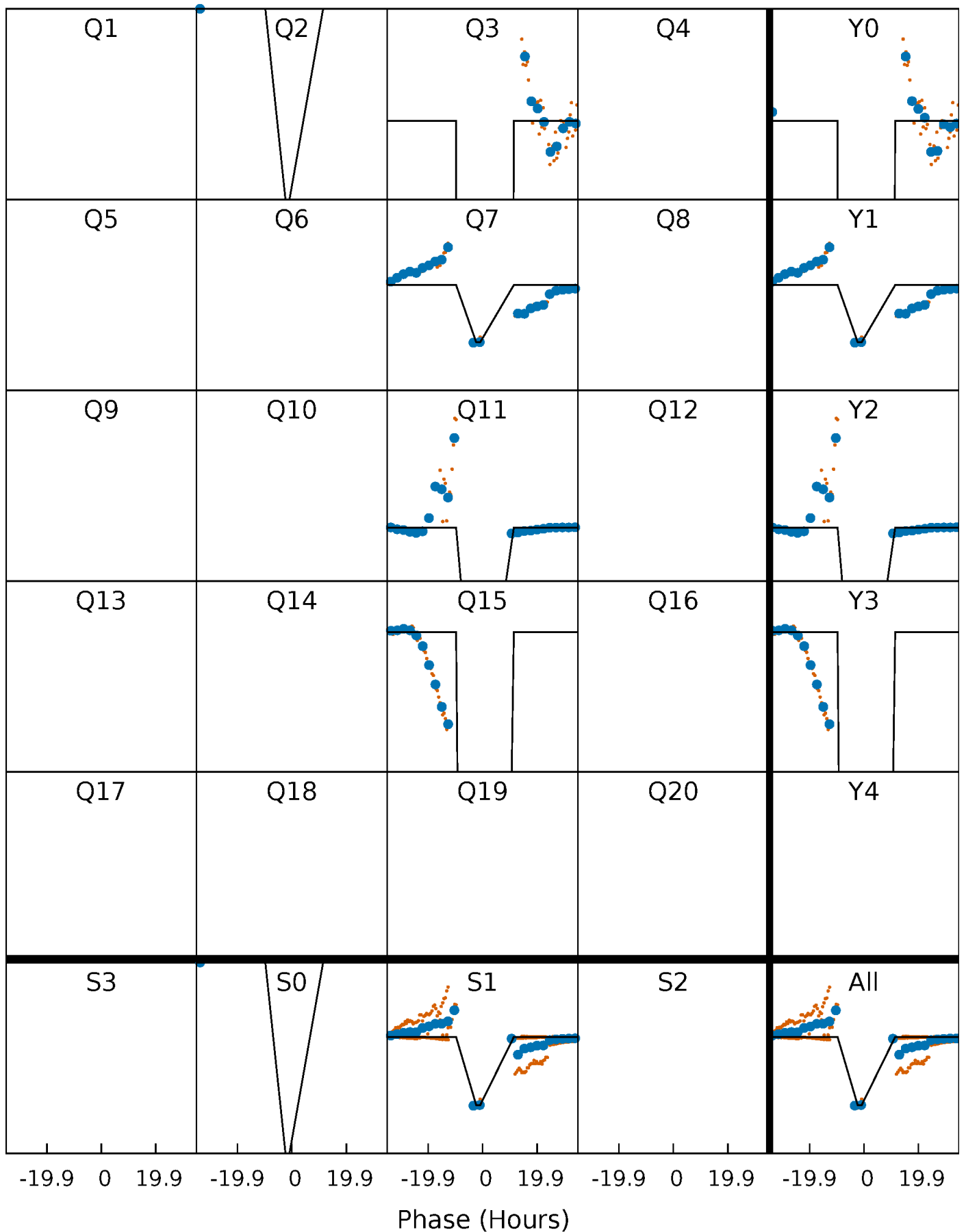
DV Quarter-Phased Transit Curves

TCE 011126267-05 $P=373.560206$ Days $T_0=260.348014$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

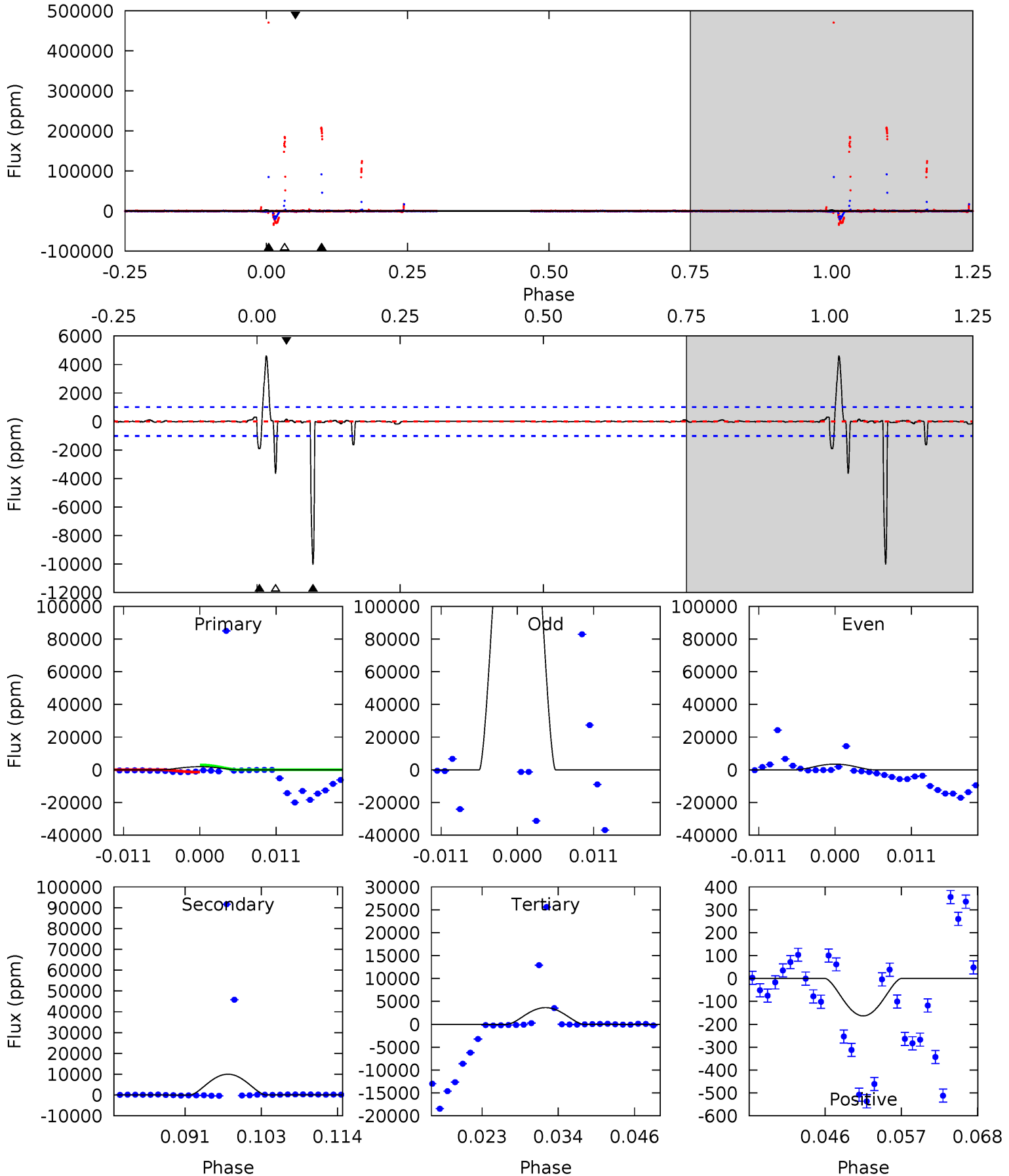
TCE 011126267-05 $P=374.301952$ Days $T_0=259.913075$ (BKJD)



DV Model-Shift Uniqueness Test

011126267-05, P = 373.560206 Days, E = 260.348014 Days

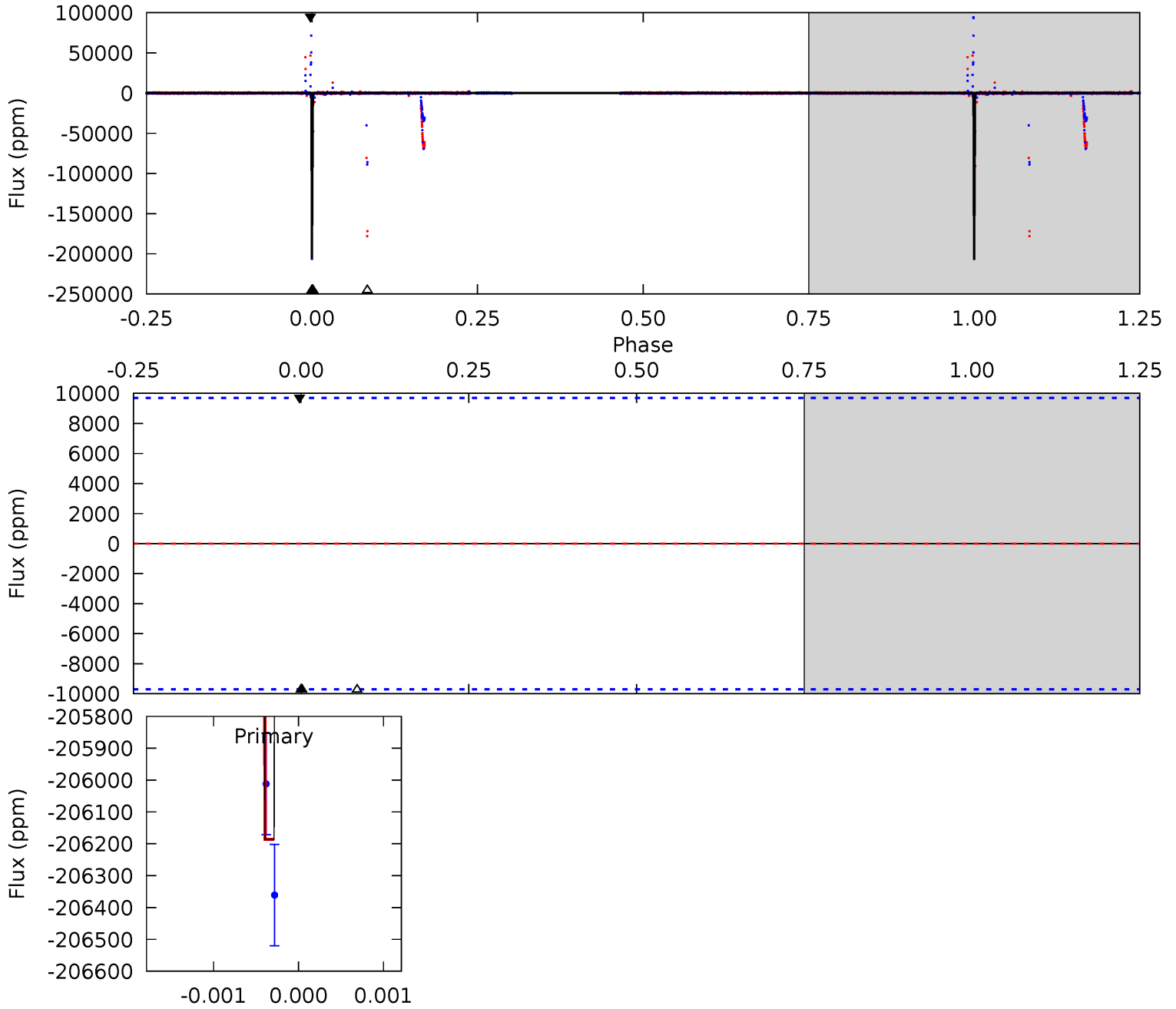
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.40	49.4	17.9	0.81	5.00	2.53	1.61	-8.54	8.59	31.5	48.6	33.2	330.8	0.31	2.53



Alt Model-Shift Uniqueness Test

011126267-05, P = 374.301952 Days, E = 259.913075 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	5.57	3.47	0	0	0	0	0	0	0	0	0



Stellar Parameters For KIC 011126267

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5677^{+152}_{-152}	$4.569^{+0.033}_{-0.176}$	$-0.220^{+0.300}_{-0.300}$	$0.818^{+0.216}_{-0.072}$	$0.913^{+0.092}_{-0.102}$	$2.347^{+0.417}_{-1.133}$
	+3%/-3%	+1%/-4%	+136%/-136%	+26%/-9%	+10%/-11%	+18%/-48%
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 011126267-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-10001 \pm 202	$71.25^{+75.65}_{-51.02}$	327^{+20}_{-14}	2796^{+1352}_{-446}	1059^{+11581}_{-819}
Alt.	-0 \pm 1742	$78.42^{+68.58}_{-51.30}$	326^{+21}_{-13}	-1556^{+3836}_{-818}	$-3.910^{+191.939}_{-276.983}$

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

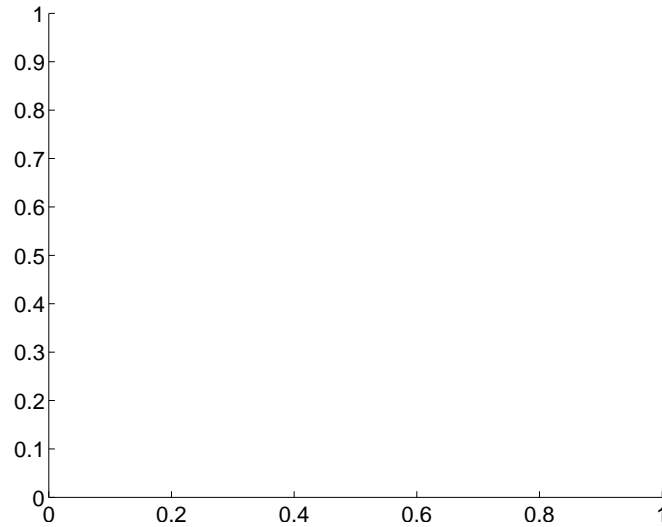
Supplemental centroid analysis for 011126267-05. Kepler magnitude: 14.28. Transit SNR 177.57

There are 0 quarters with good PRF difference image offsets

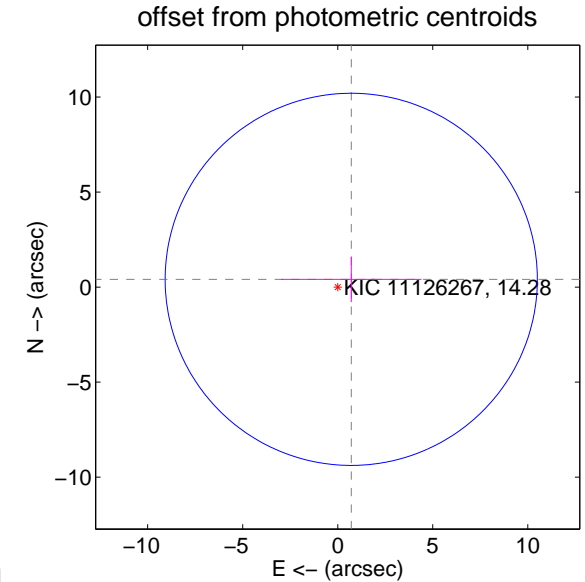
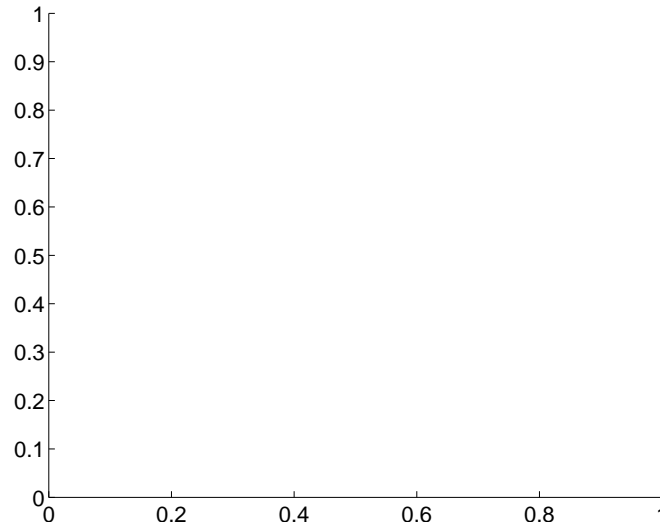
The direct PRF centroid is offset from the target star catalog position by about NaN arcsec

	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	0.82 ± 3.26	0.25	-0.71 ± 3.70	0.41 ± 1.20

There is no PRF-fit offset from OOT-fit



There is no PRF-fit offset from KIC



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.



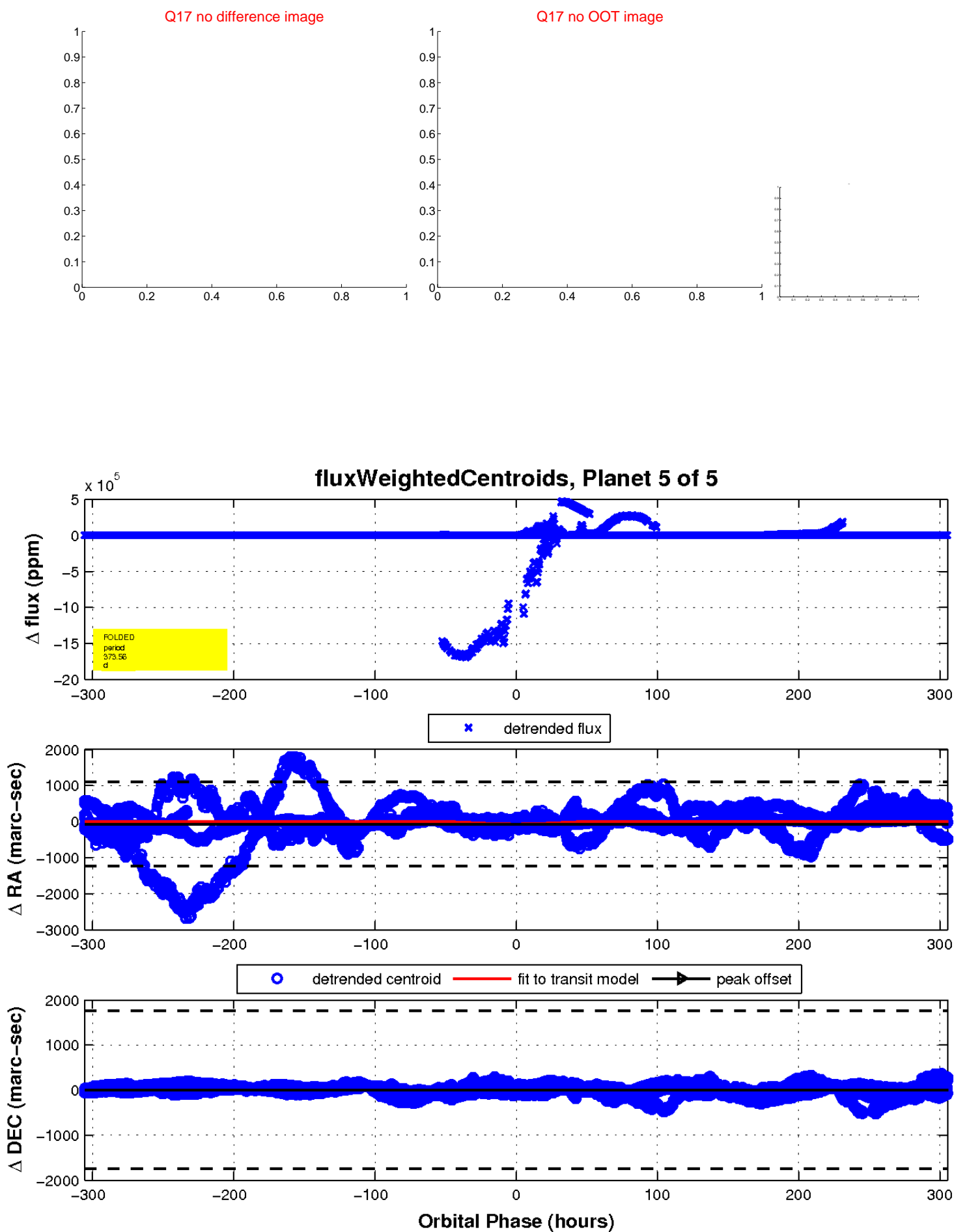
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

