

KIC 006050127

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})
006050127-01	OBS	No	380.820916	469.409862	46.4	3.116	14.2	0.6	0.89	5691	0.69	0.70
006050127-02	OBS	No	188.301672	162.056302	589.9	19.015	17.4	6.0	0.89	5691	2.19	1.78
006050127-03	OBS	No	491.663440	532.503263	820.5	3.821	12.2	11.0	0.89	5691	2.79	0.50
006050127-04	OBS	No	511.997234	492.195713	1000.0	5.468	19.3	13.0	0.89	5691	3.53	0.47
006050127-05	OBS	No	332.478802	185.847361	293.4	1.102	14.1	2.1	0.89	5691	1.62	0.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006050127-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_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

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

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

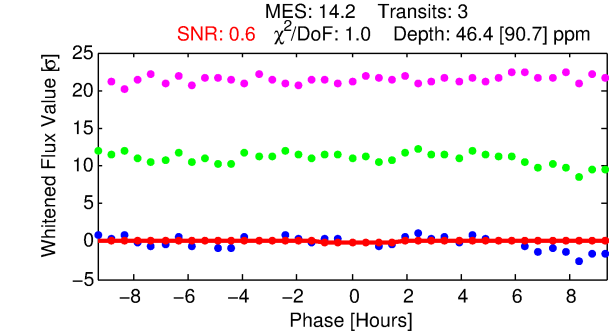
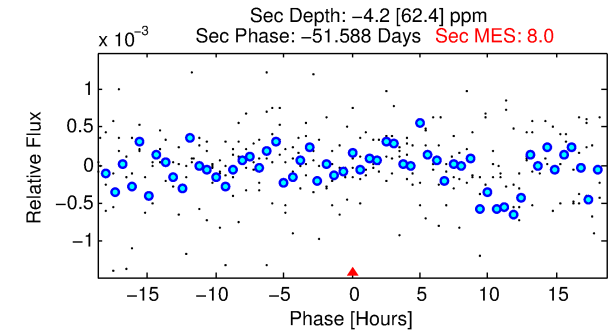
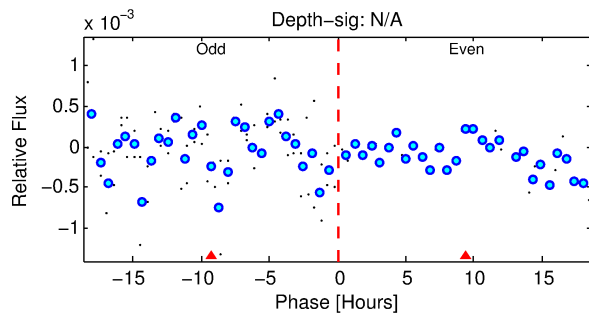
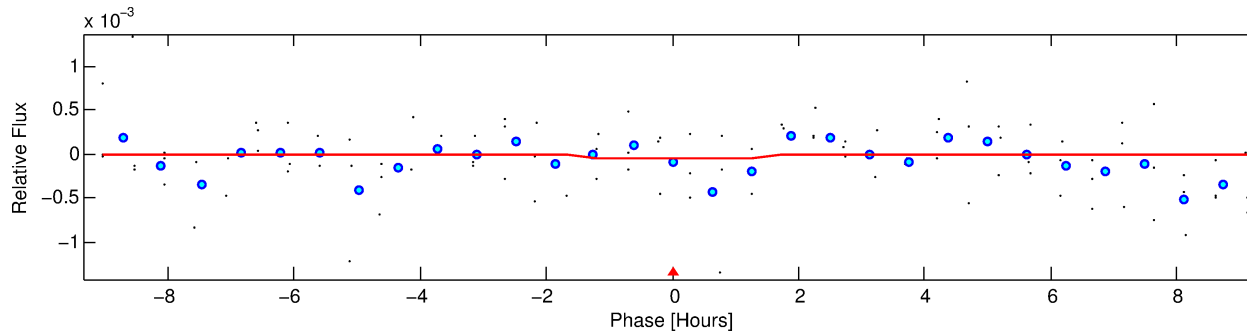
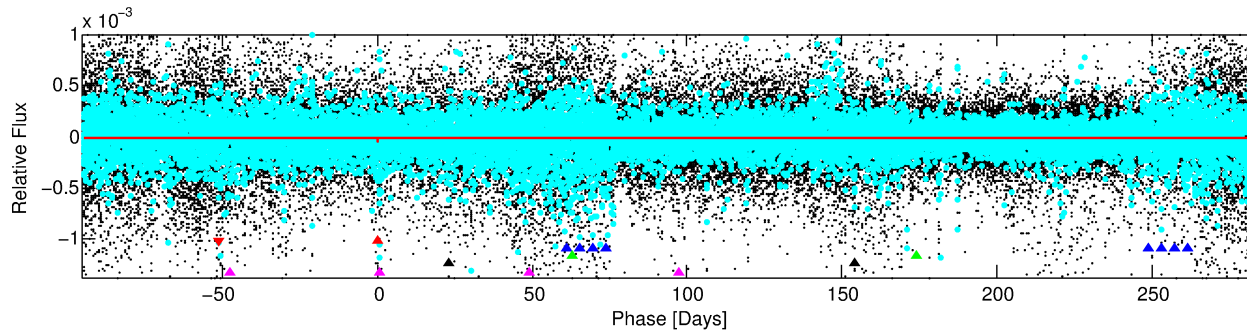
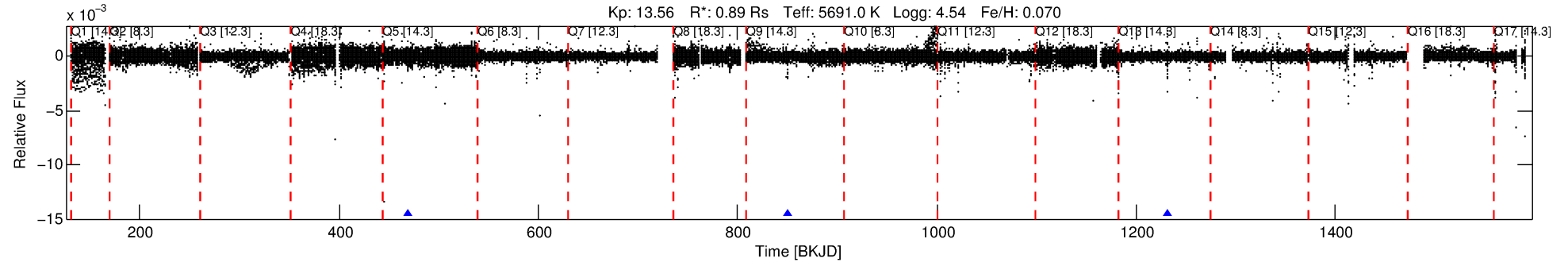
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006050127-01

No Significant Match Found

DV One-Page Summary

KIC: 6050127 Candidate: 1 of 5 Period: 380.821 d



DV Fit Results:

Period = 380.82092 [0.08133] d
Epoch = 469.4099 [0.1337] BKJD
Rp/R* = 0.0071 [0.0560]
a/R* = 521.81 [18311.13]
b = 0.84 [12.56]
Seff = 0.70 [0.11]
Teq = 233 [10] K
Rp = 0.69 [5.43] Re
a = 1.0299 [0.1012] AU
Ag = N/A
Teffp = N/A

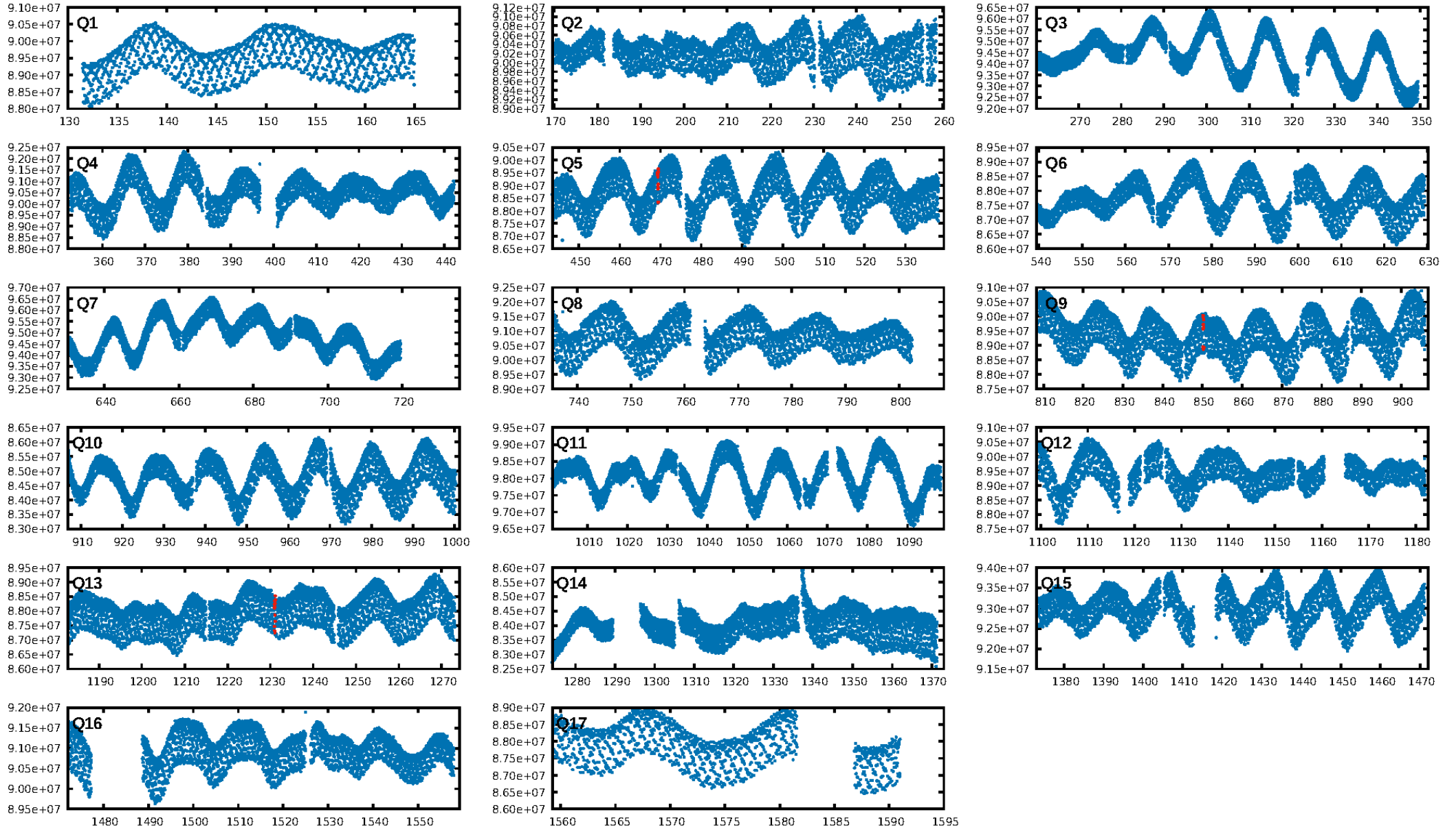
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [351.02 σ]
LongPeriod-sig: 100.0% [539.55 σ]
ModelChiSquare2-sig: 26.6%
ModelChiSquareGof-sig: 87.5%
Bootstrap-pfa: 4.04e-08
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.9753
Centroid-sig: N/A
Centroid-so: 182.395 arcsec [0.91 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: 1.00 [3/3]

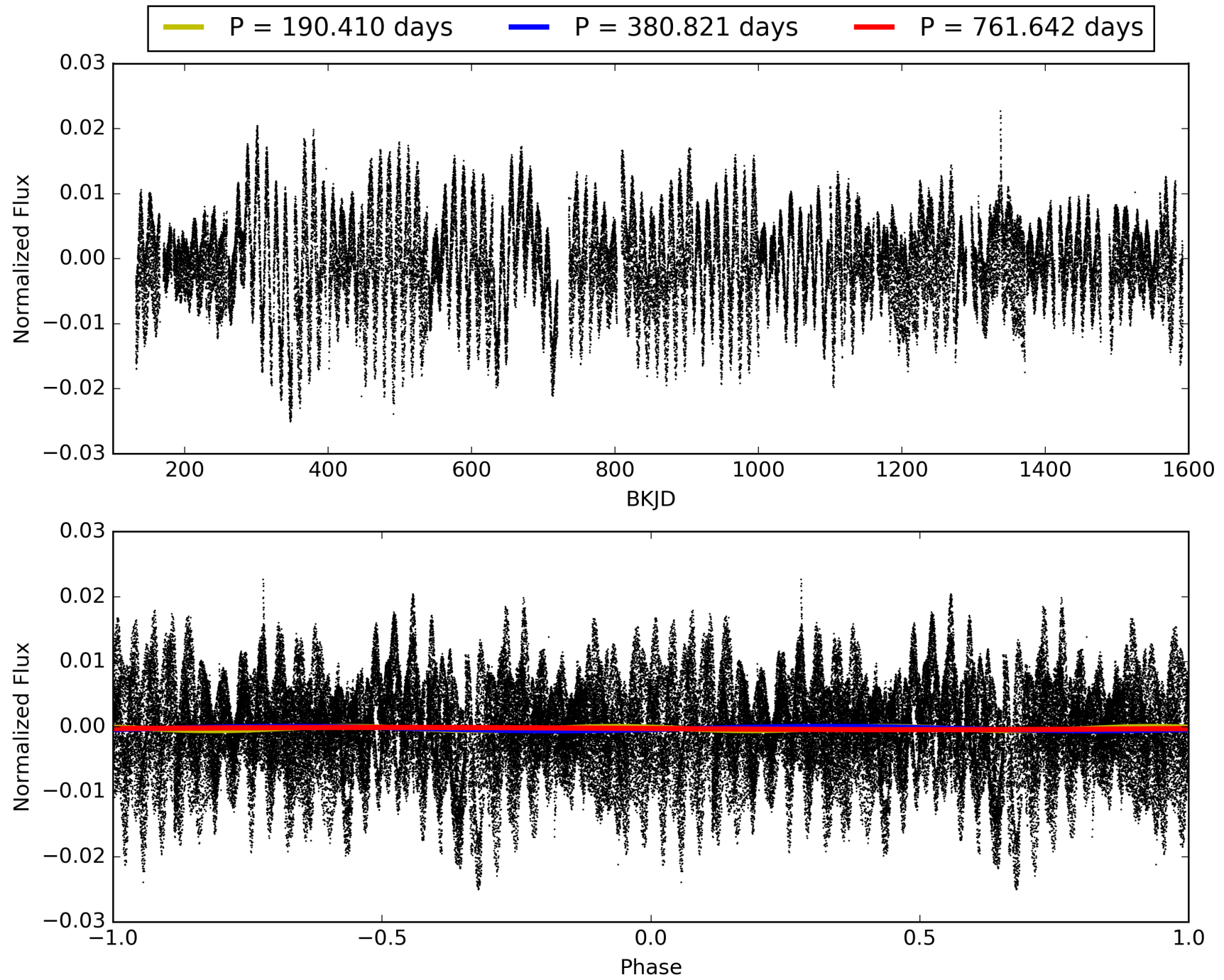
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006050127-01, PDC Light Curves

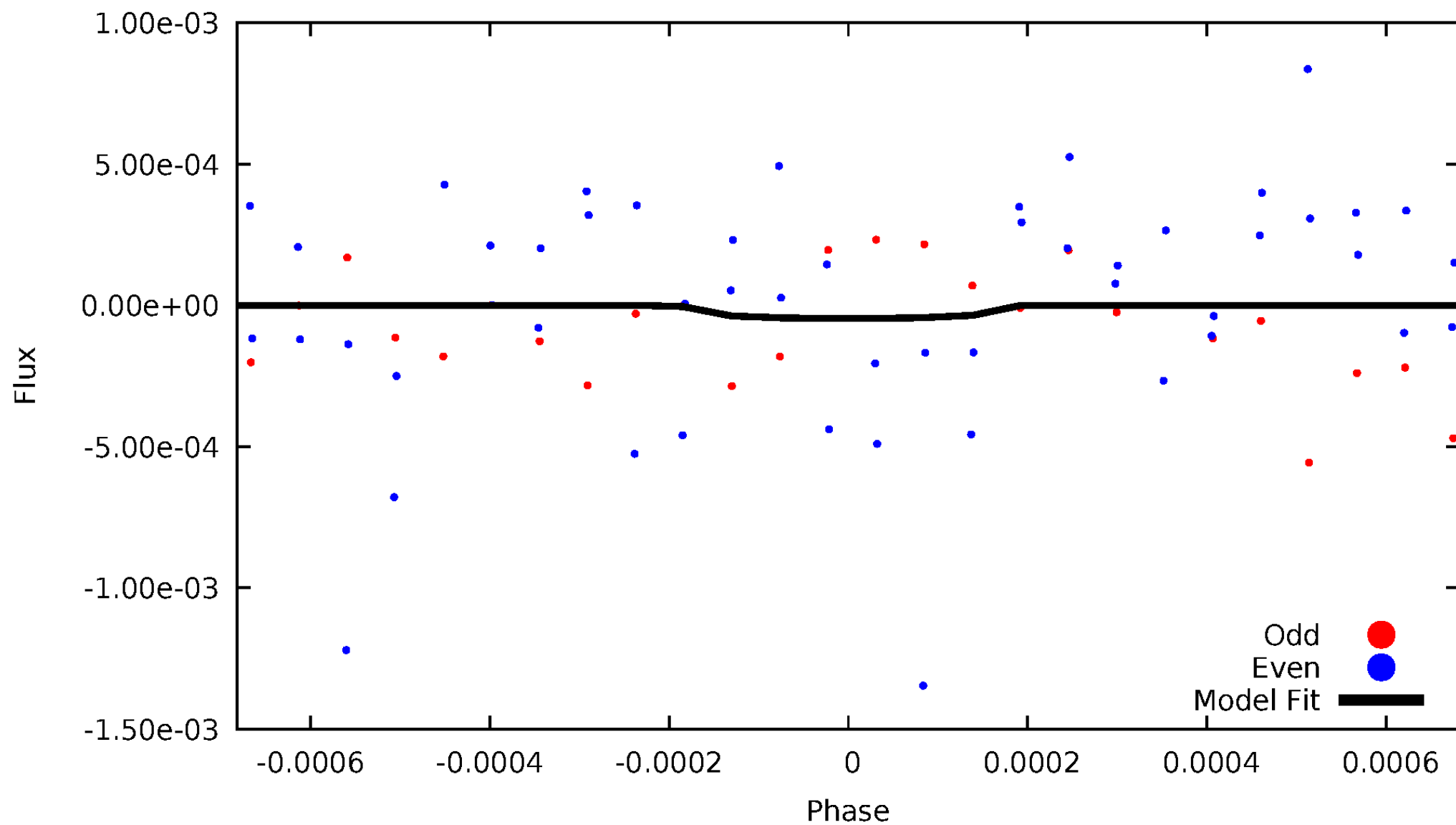


TCE 006050127-01



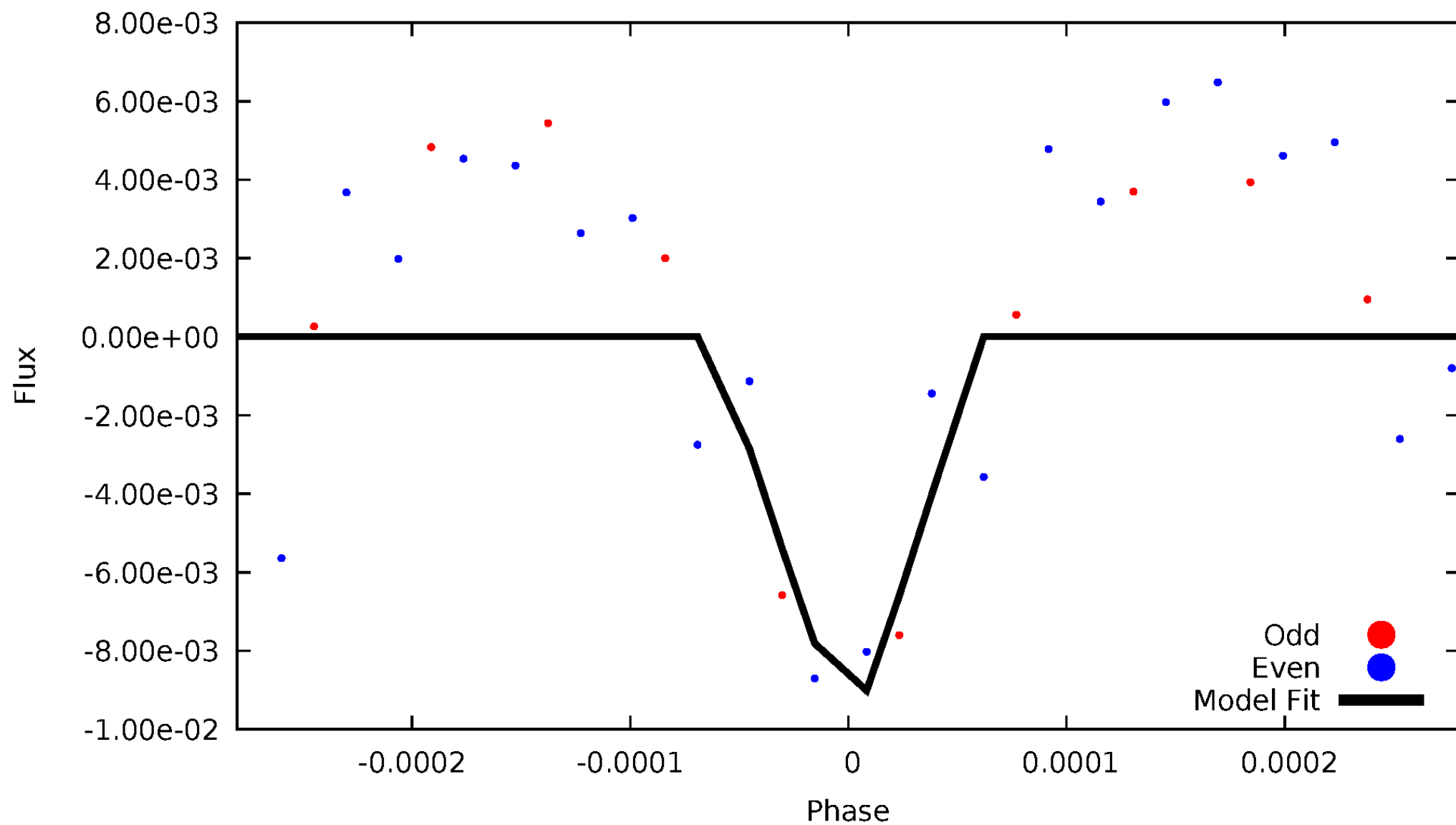
DV Odd/Even

TCE 006050127-01



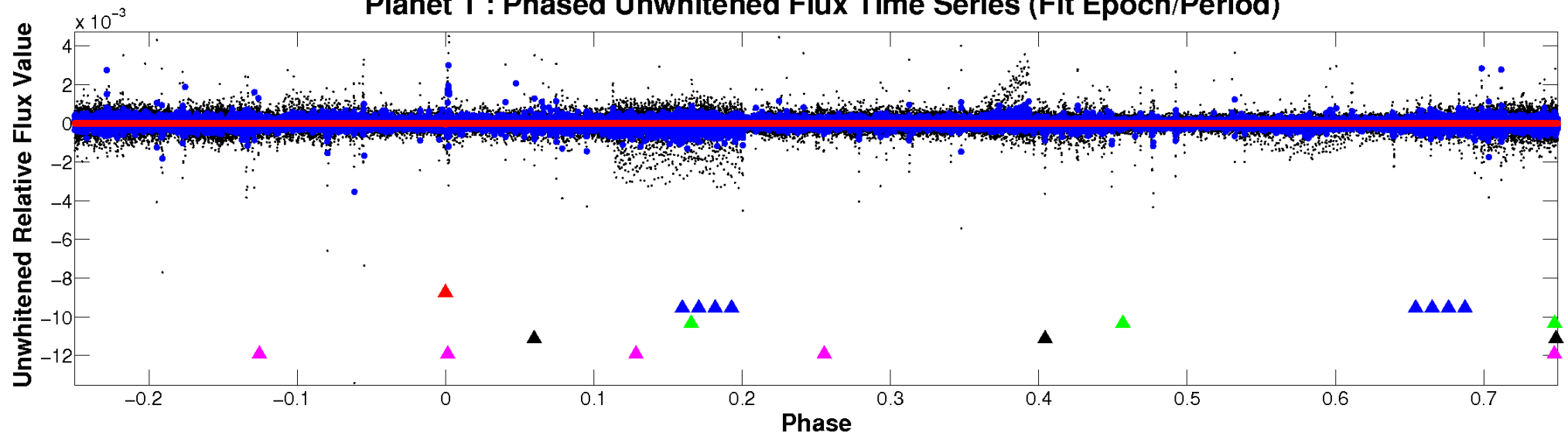
ALT Odd/Even

TCE 006050127-01

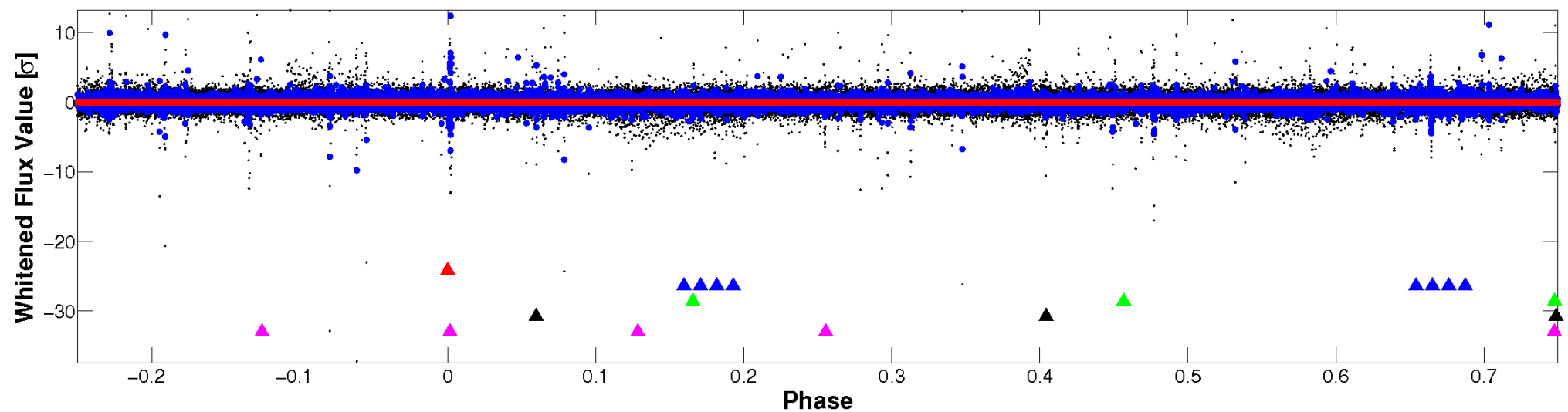


Non-Whitened Vs. Whitened Light Curve

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

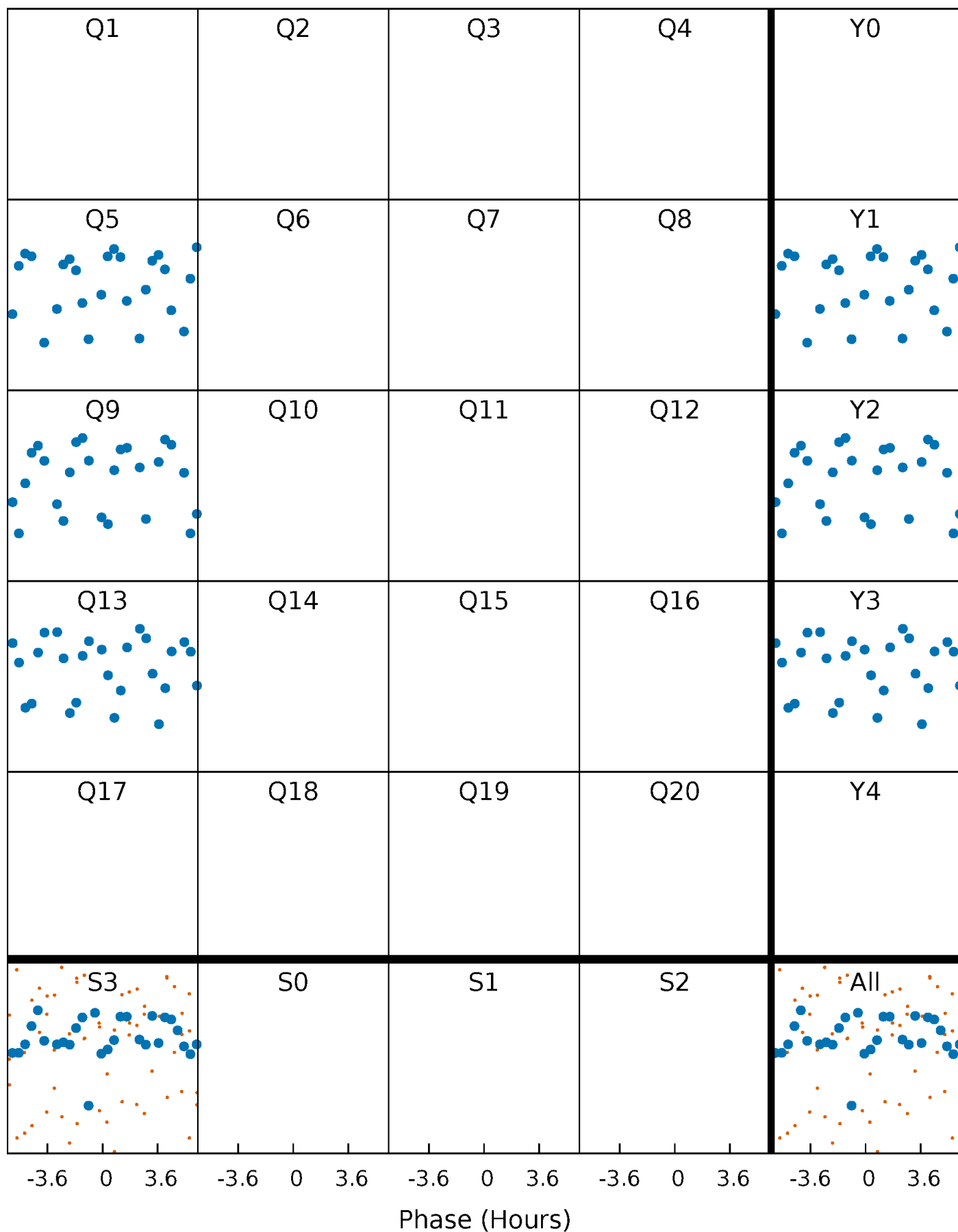


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



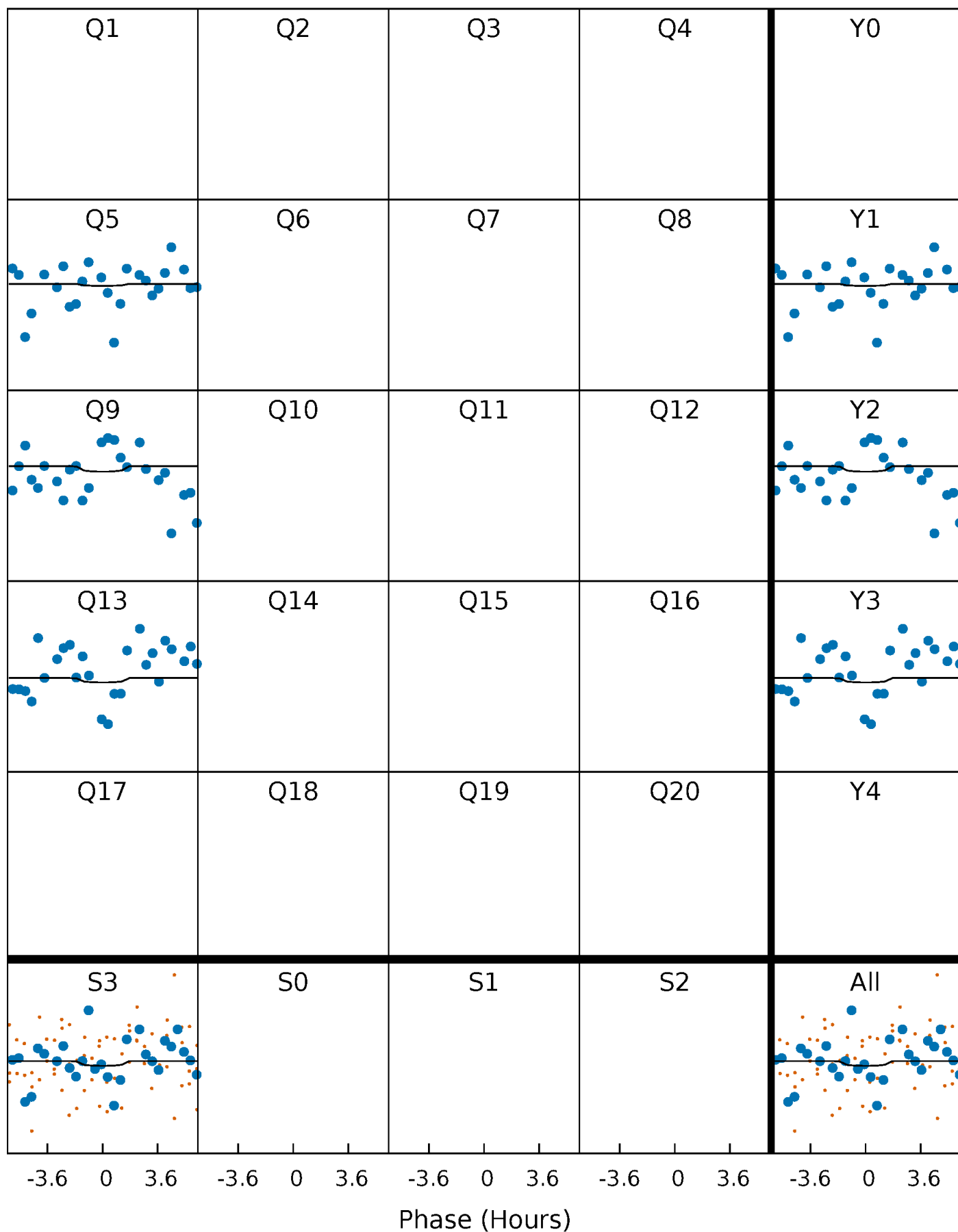
PDC Quarter-Phased Transit Curves

TCE 006050127-01 P=380.820916 Days $T_0=469.409862$ (BKJD)



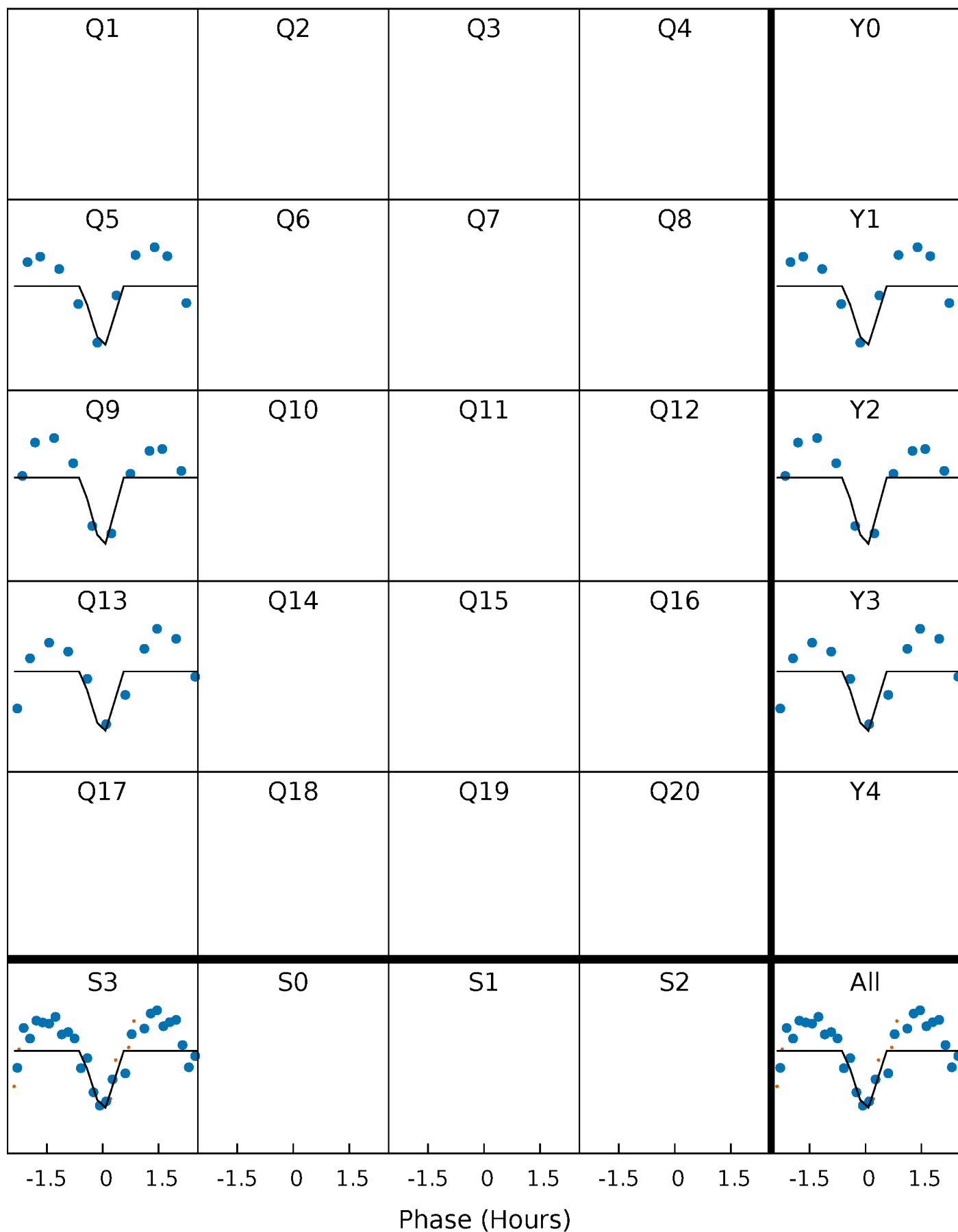
DV Quarter-Phased Transit Curves

TCE 006050127-01 $P=380.820916$ Days $T_0=469.409862$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

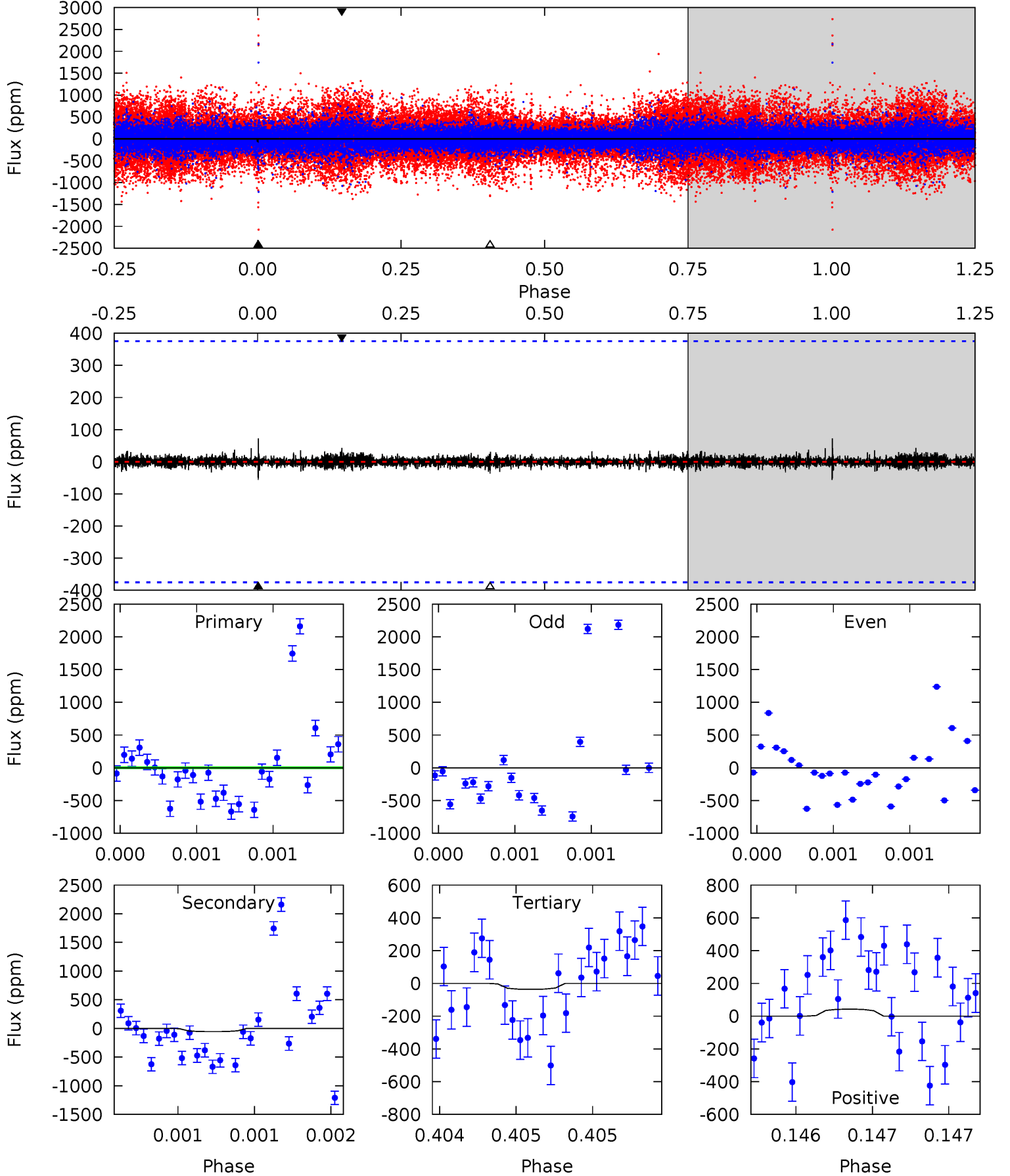
TCE 006050127-01 P=380.847503 Days $T_0=469.386217$ (BKJD)



DV Model-Shift Uniqueness Test

006050127-01, P = 380.820916 Days, E = 88.588946 Days

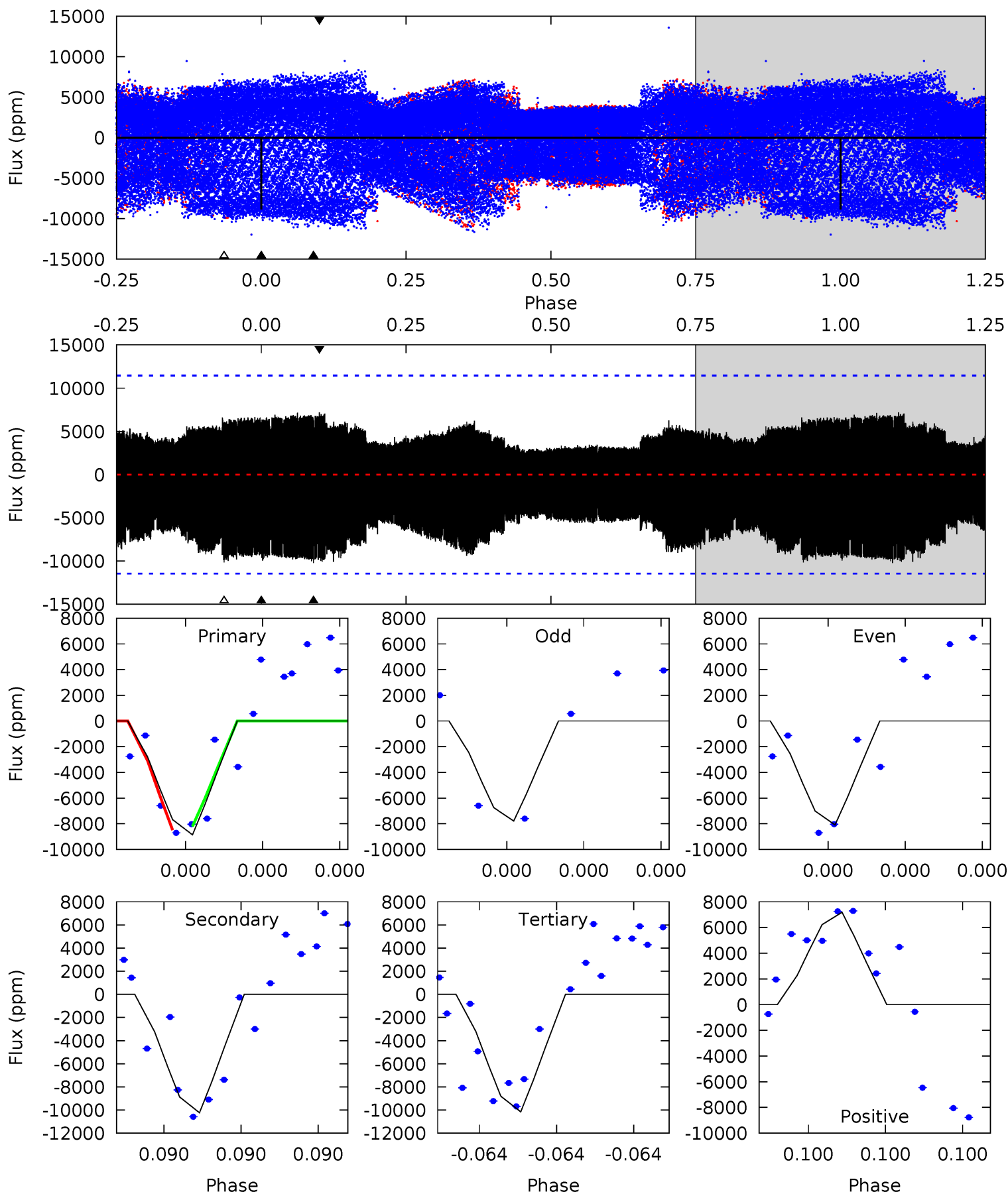
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.68	0.84	0.55	0.64	5.60	3.52	0.12	0.13	0.04	0.29	0.20	1.14	0.64	0.56	0.78



Alt Model-Shift Uniqueness Test

006050127-01, P = 380.847503 Days, E = 88.538714 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.53	5.24	5.20	3.68	5.86	3.91	2.03	-0.67	0.86	0.04	1.56	0.07	1.04	0.41	0.06



Stellar Parameters For KIC 006050127

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5691^{+76}_{-85}	$4.544^{+0.016}_{-0.088}$	$0.070^{+0.150}_{-0.150}$	$0.887^{+0.095}_{-0.038}$	$1.003^{+0.042}_{-0.072}$	$2.025^{+0.153}_{-0.512}$
	+1%/-1%	+0%/-2%	+214%/-214%	+11%/-4%	+4%/-7%	+8%/-25%
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 006050127-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-56 ± 67	$4.40^{+4.05}_{-3.10}$	329^{+9}_{-7}	2856^{+1293}_{-5159}	1121^{+12824}_{-1335}
Alt.	-10234 ± 1954	$9.70^{+5.24}_{-5.43}$	329^{+9}_{-7}	5811^{+3387}_{-1070}	$63030^{+255459}_{-37369}$

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

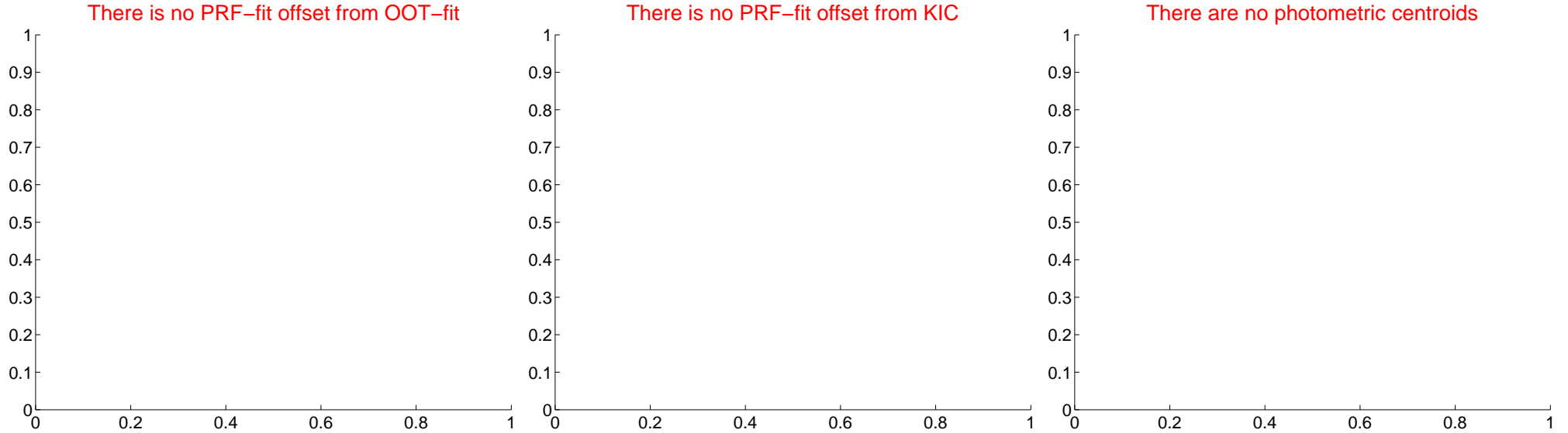
DV Centroid Data

Supplemental centroid analysis for 006050127-01. Kepler magnitude: 13.56. Transit SNR 0.57

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	—	—	—	—

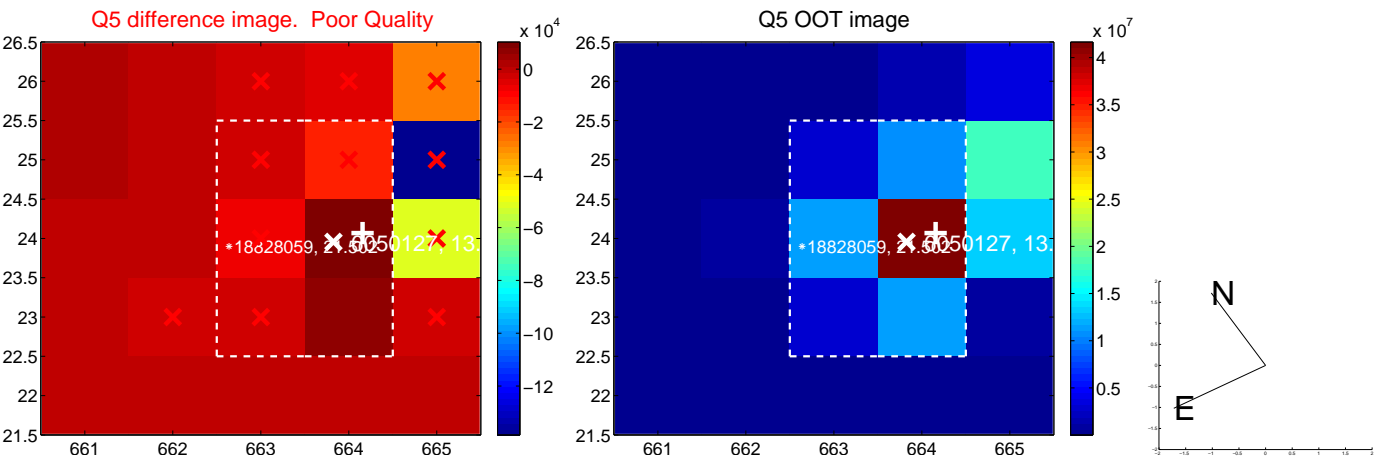


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

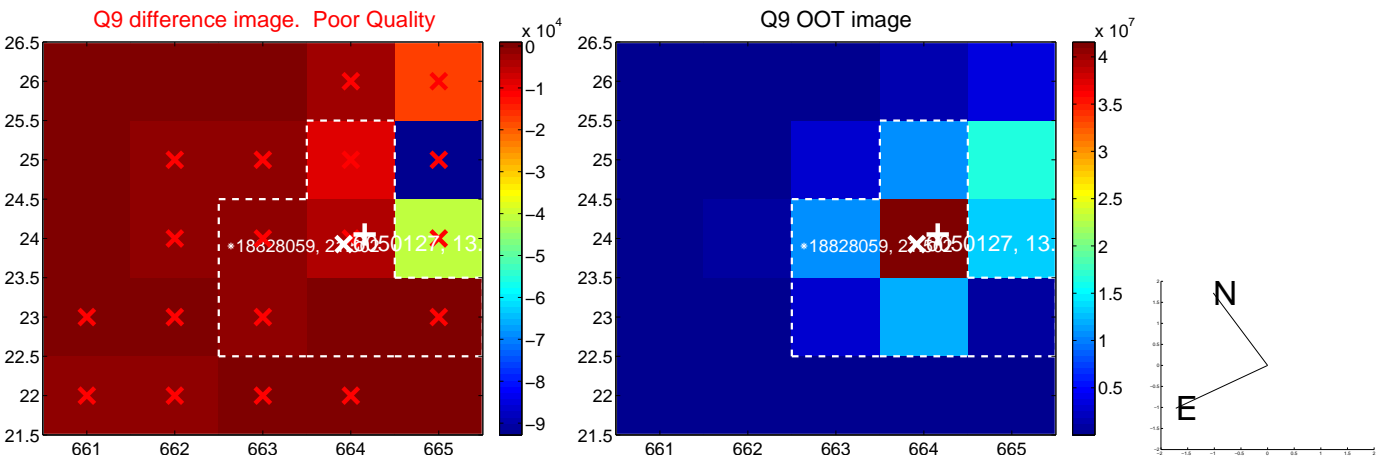
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



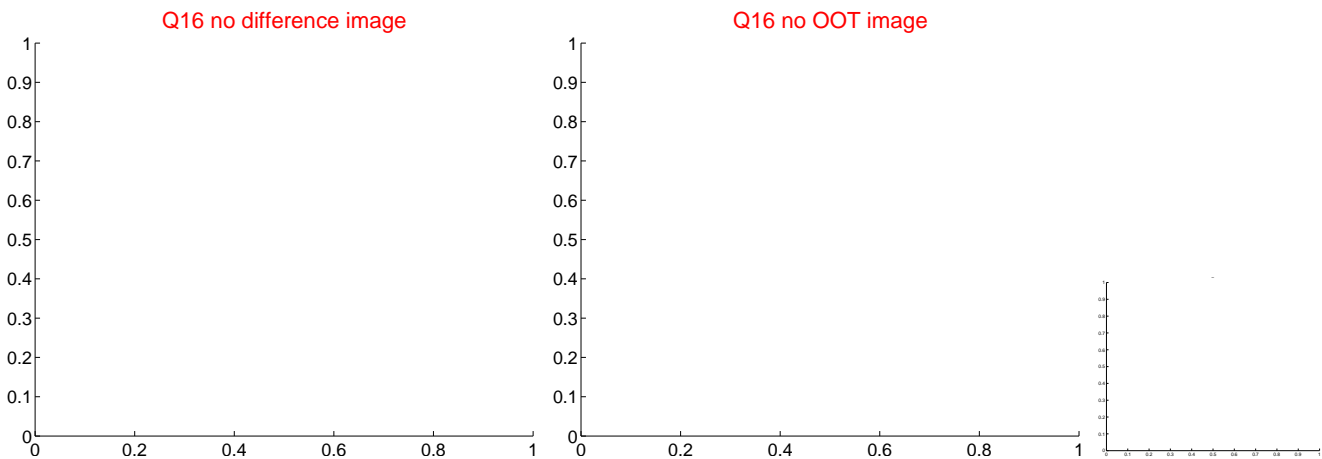
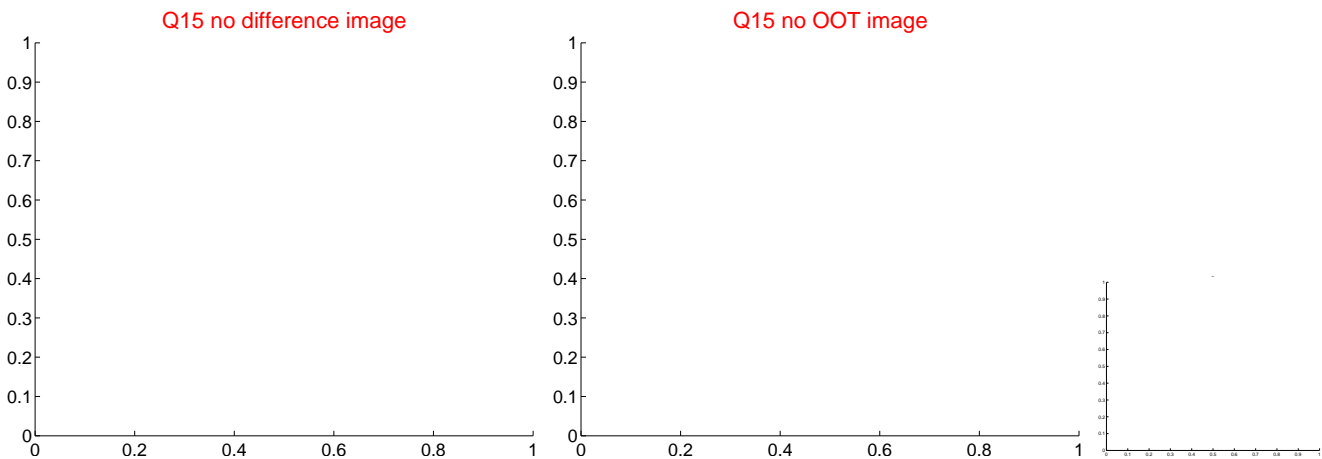
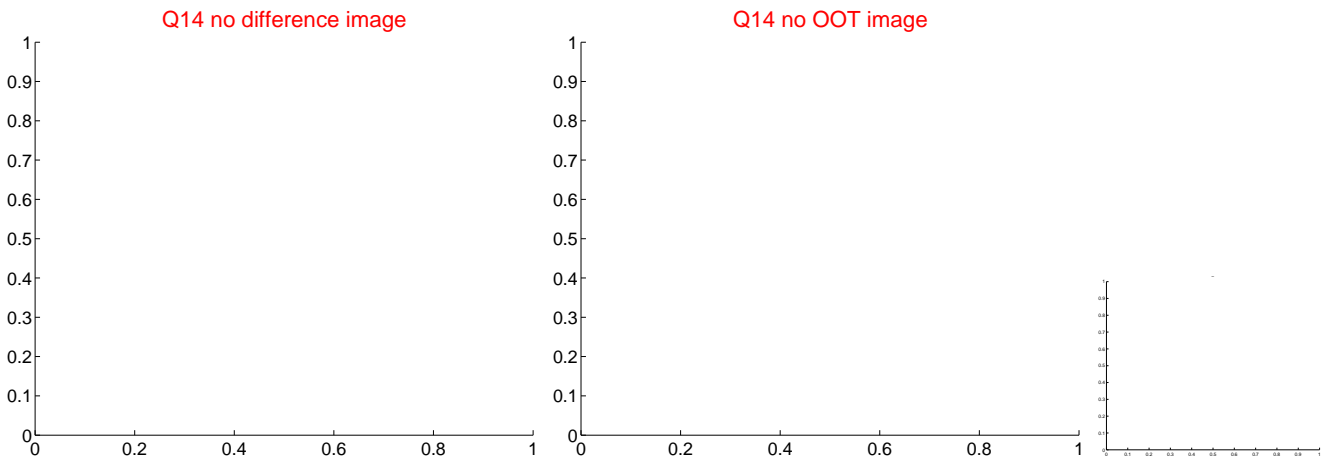
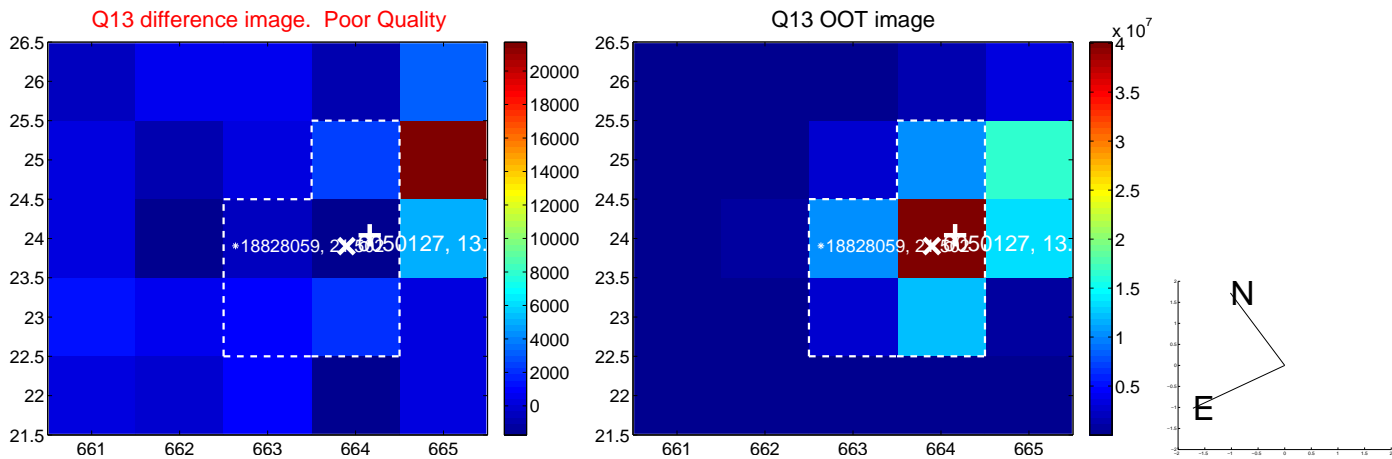
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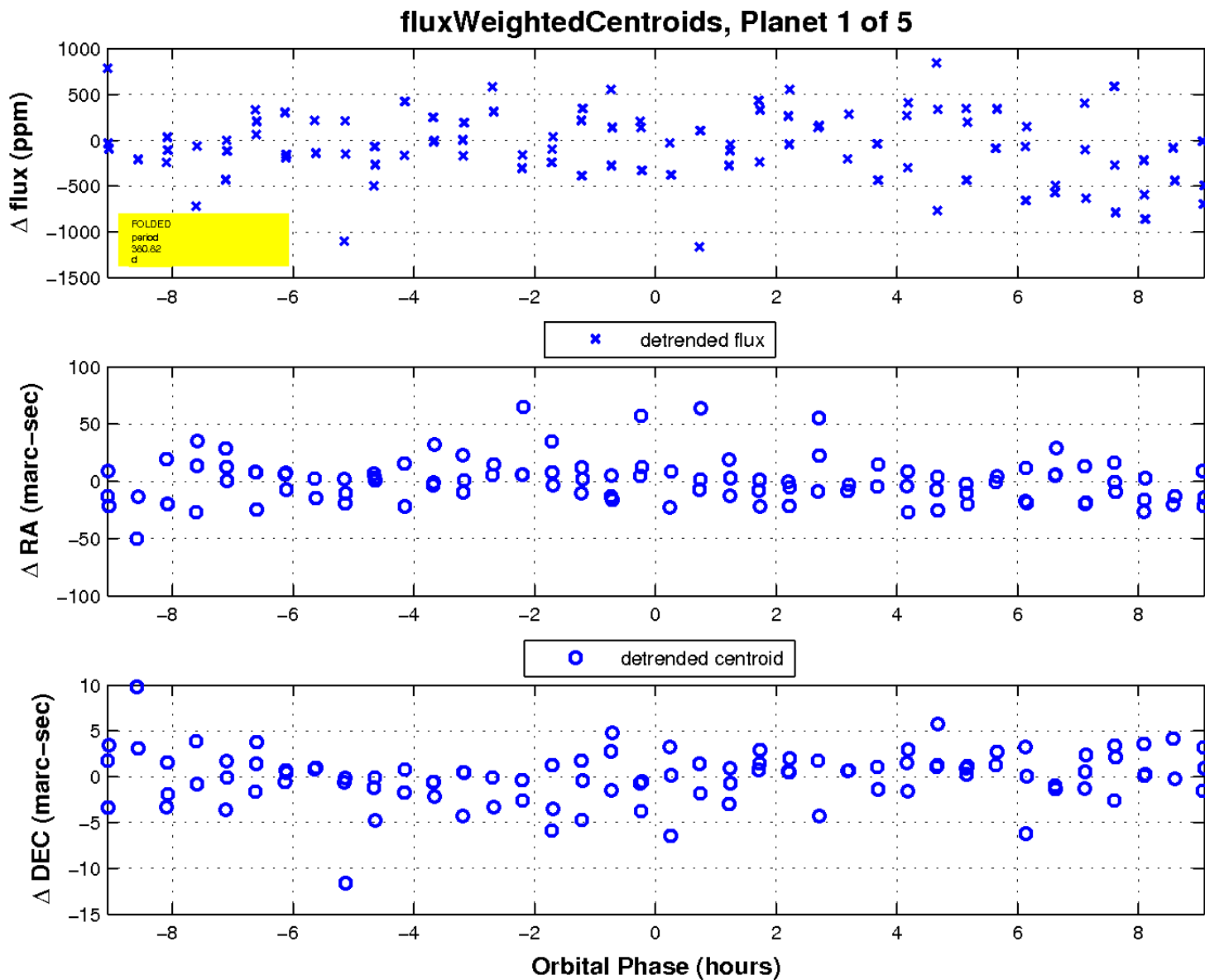
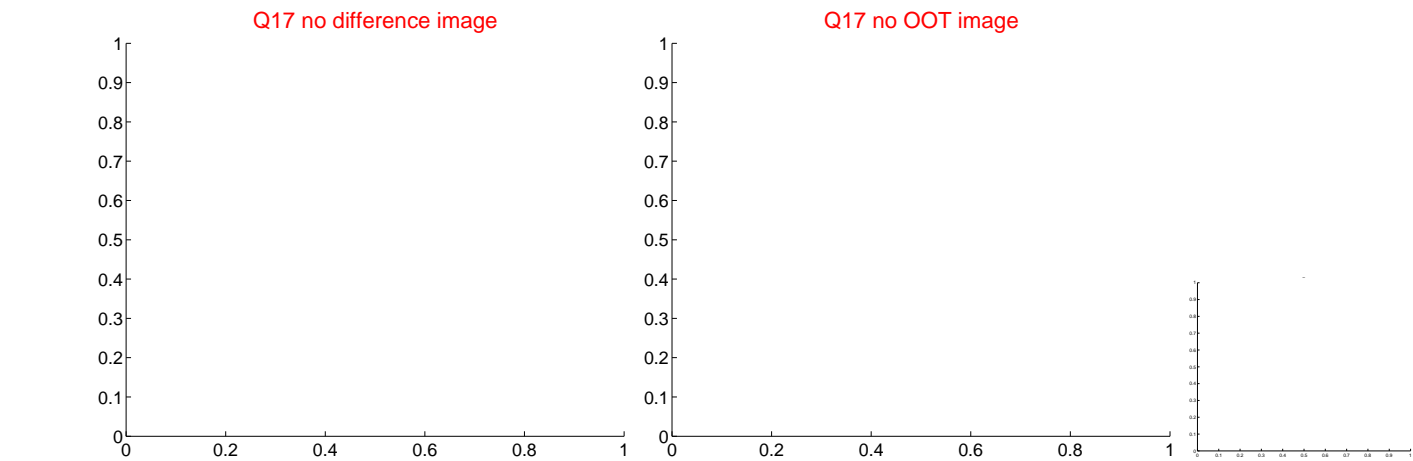
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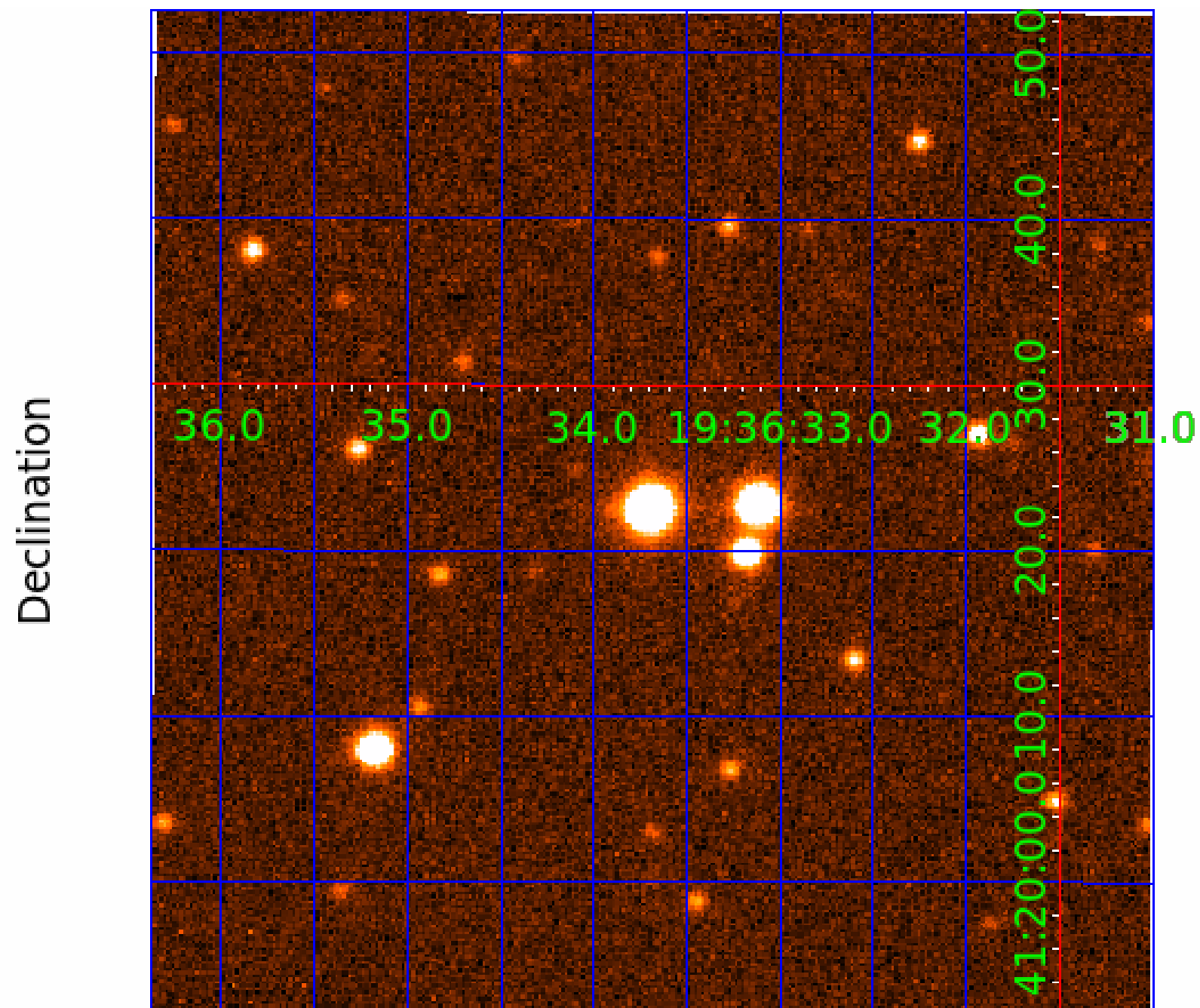
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006050127

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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006050127-03	OBS	No	491.663440	532.503263	820.5	3.821	12.2	11.0	0.89	5691	2.79	0.50
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Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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006050127-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_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

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

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

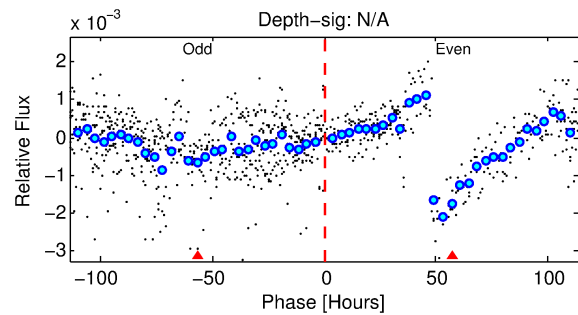
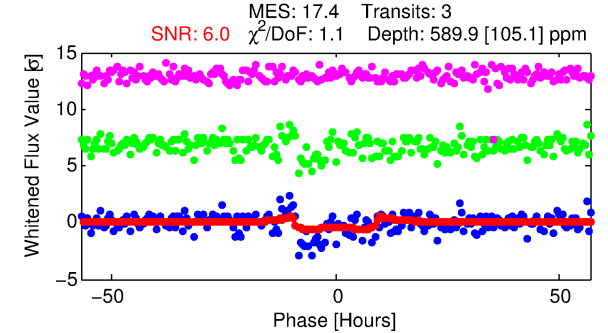
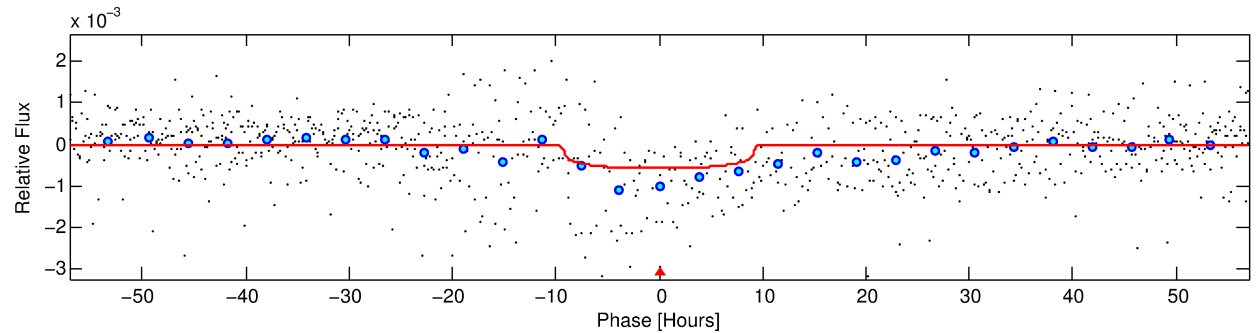
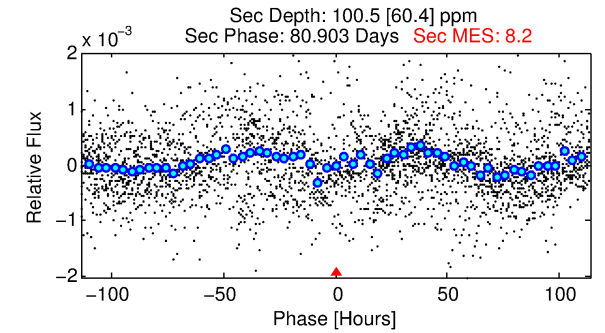
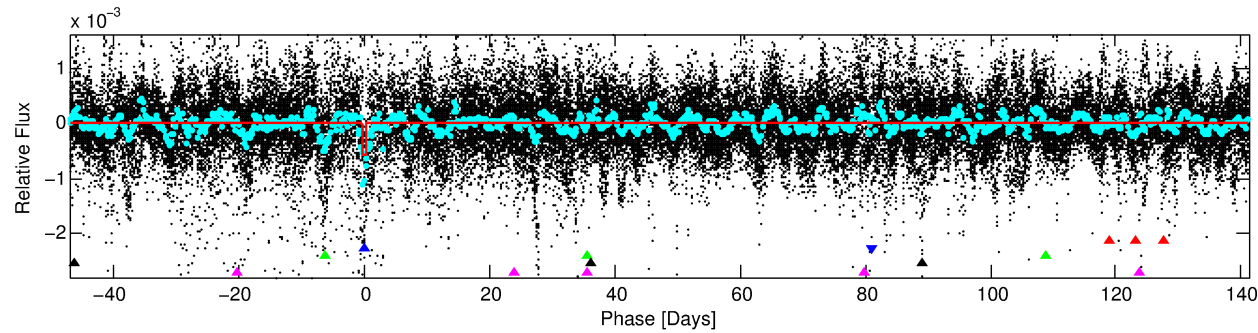
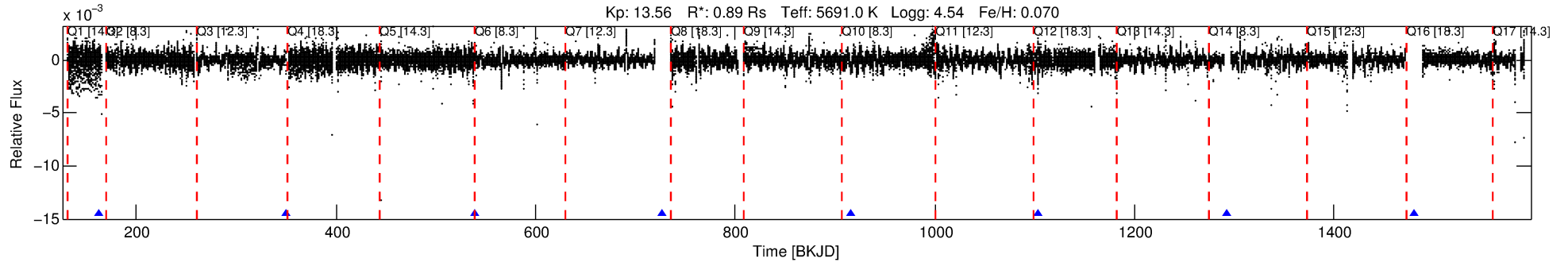
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006050127-02

No Significant Match Found

DV One-Page Summary

KIC: 6050127 Candidate: 2 of 5 Period: 188.302 d



DV Fit Results:

Period = 188.30167 [0.00840] d
Epoch = 162.0563 [0.0362] BKJD
Rp/R* = 0.0226 [0.0134]
a/R* = 68.63 [167.24]
b = 0.47 [4.05]
Seff = 1.78 [0.29]
Teq = 295 [12] K
Rp = 2.19 [1.31] Re
a = 0.6440 [0.0633] AU
Ag = 4794.35 [6397.68] [0.75 σ]
Teffp = 3791 [1258] K [2.78 σ]

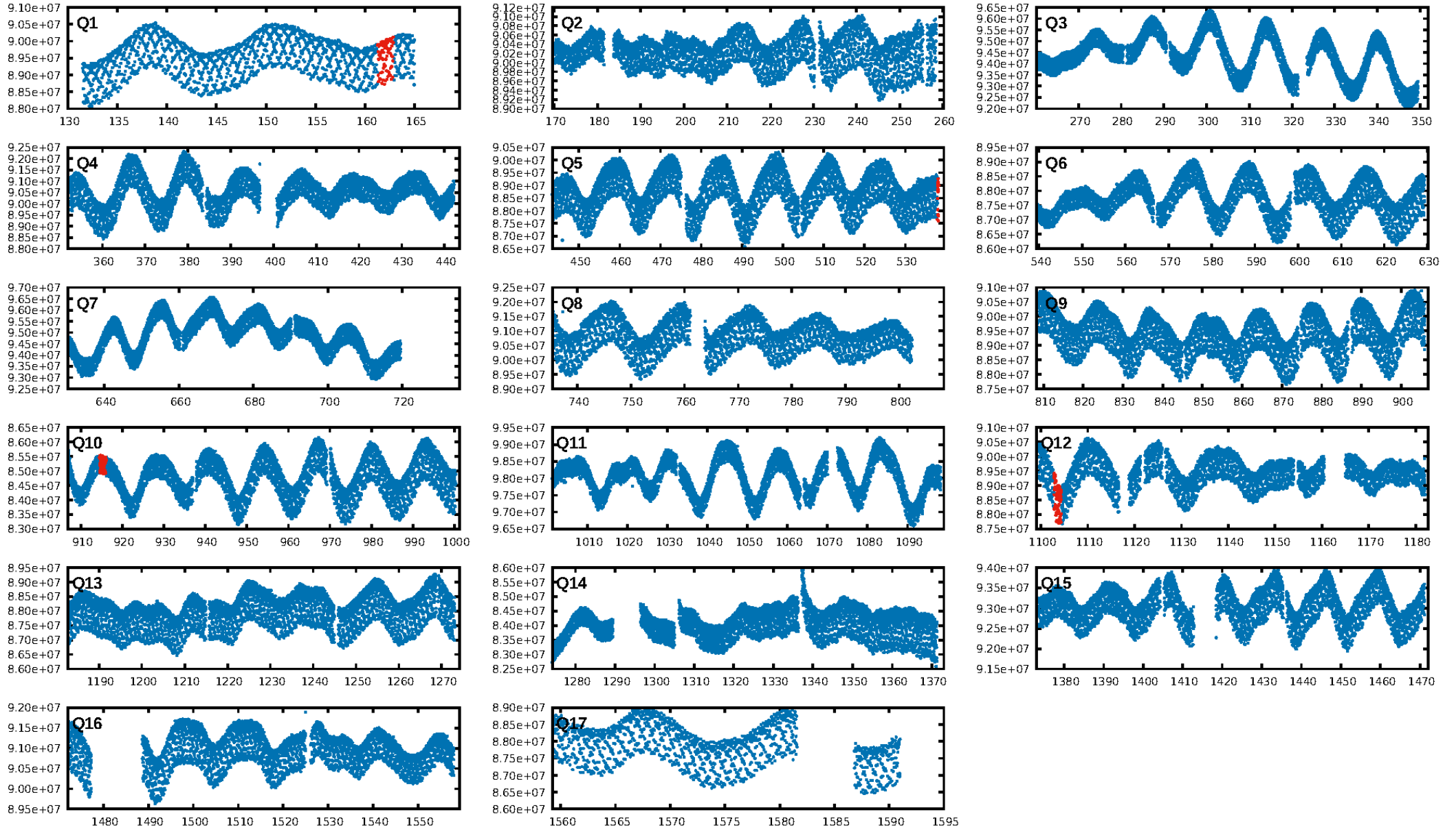
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [181.67 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 90.5%
Bootstrap-pfa: 4.71e-14
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: -7.034
Centroid-sig: N/A
Centroid-so: 1.143 arcsec [0.11 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: 1.00 [2/2]

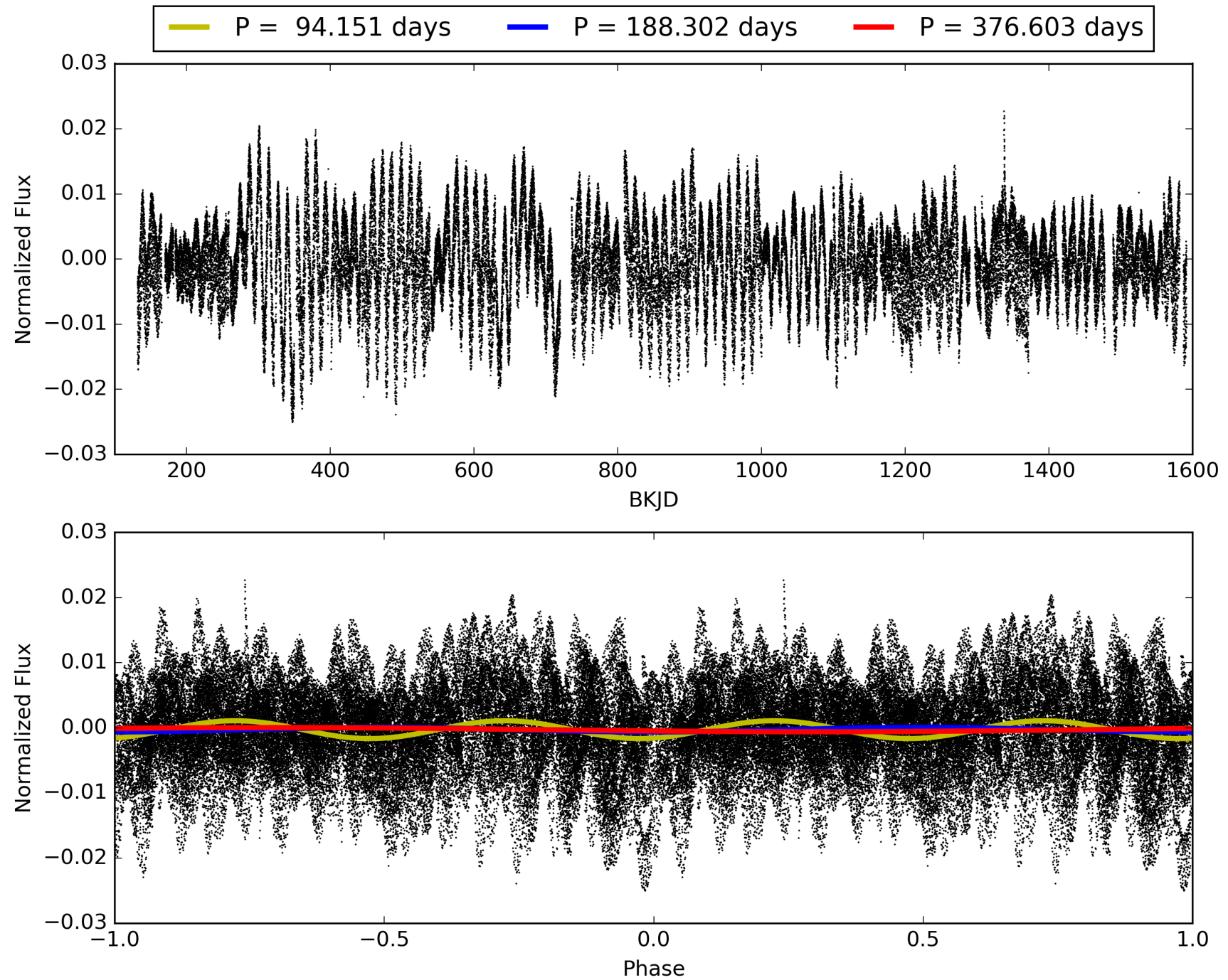
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006050127-02, PDC Light Curves

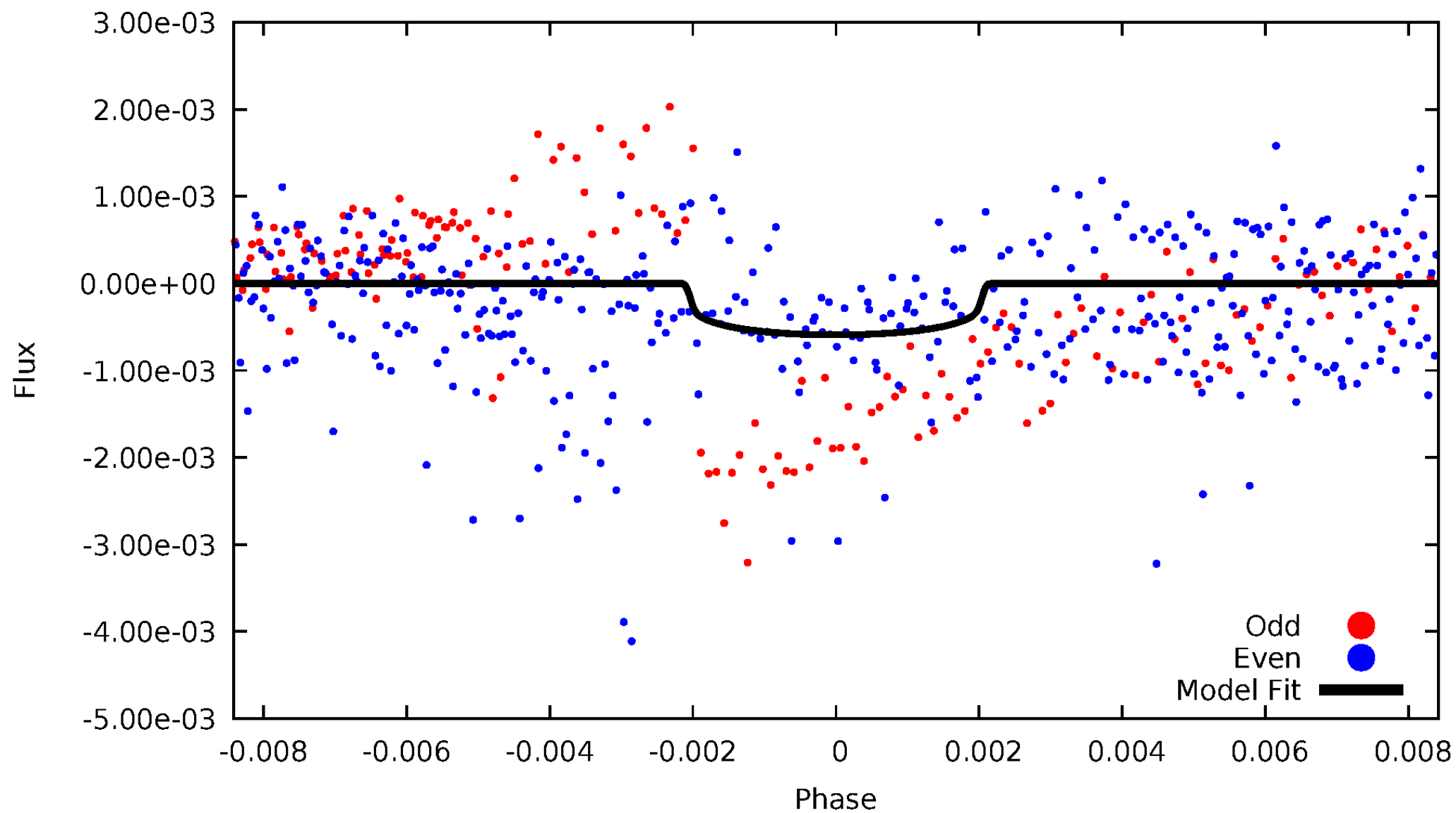


TCE 006050127-02



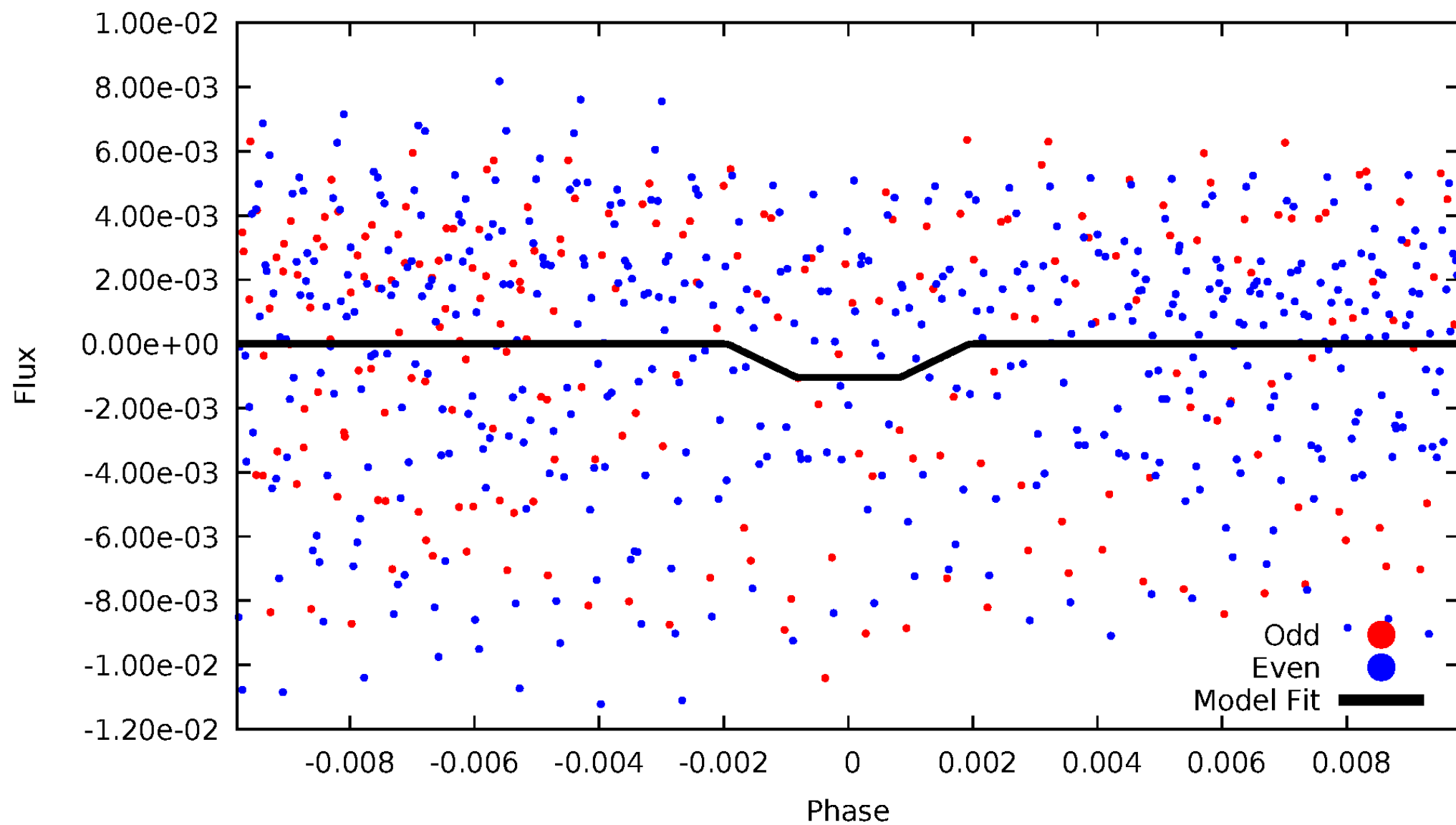
DV Odd/Even

TCE 006050127-02



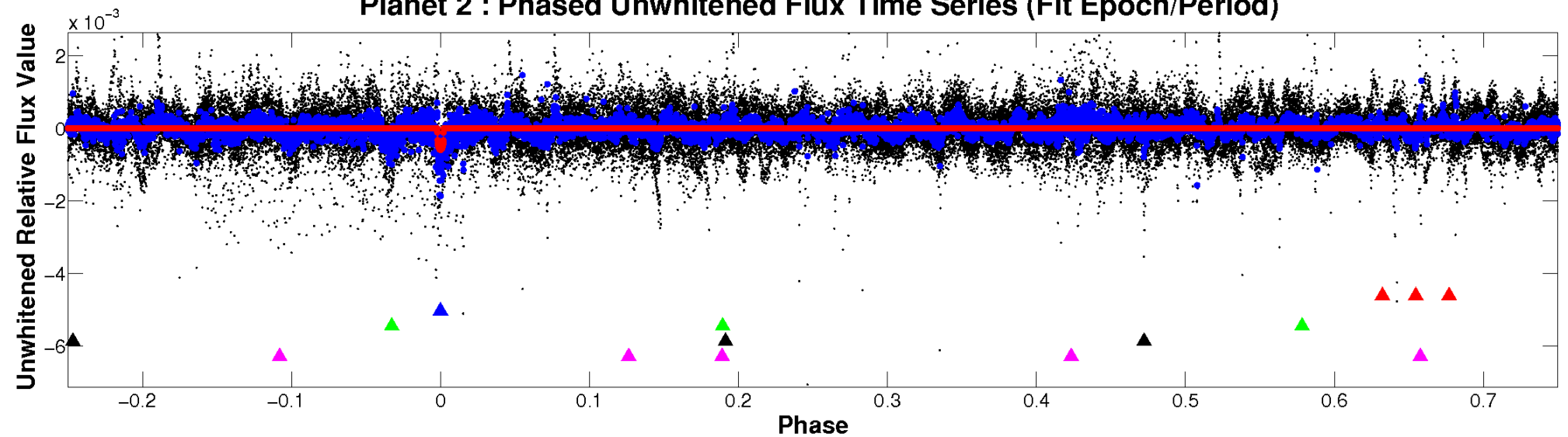
ALT Odd/Even

TCE 006050127-02

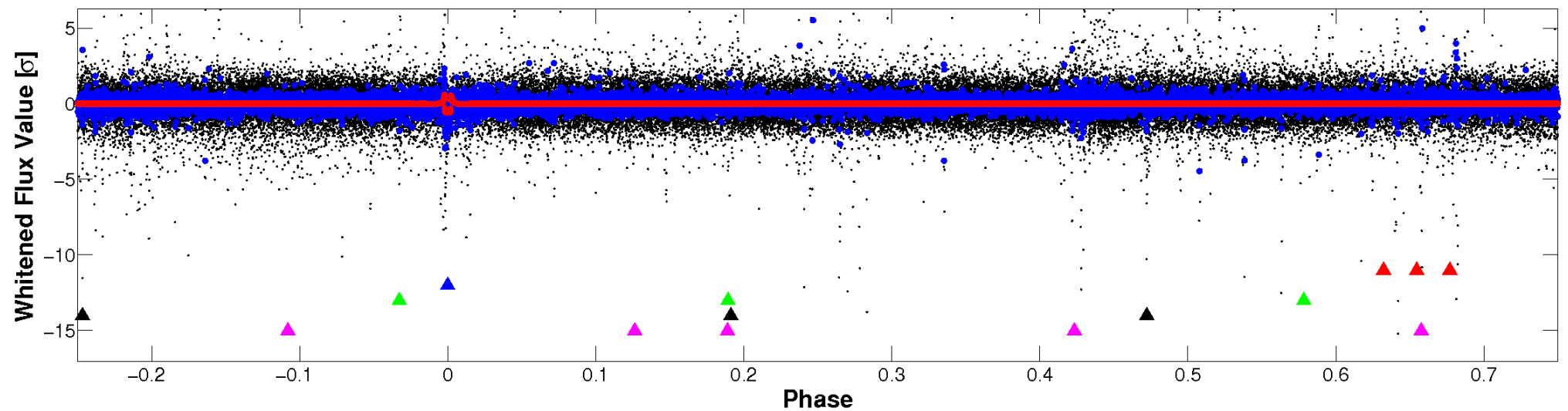


Non-Whitened Vs. Whitened Light Curve

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

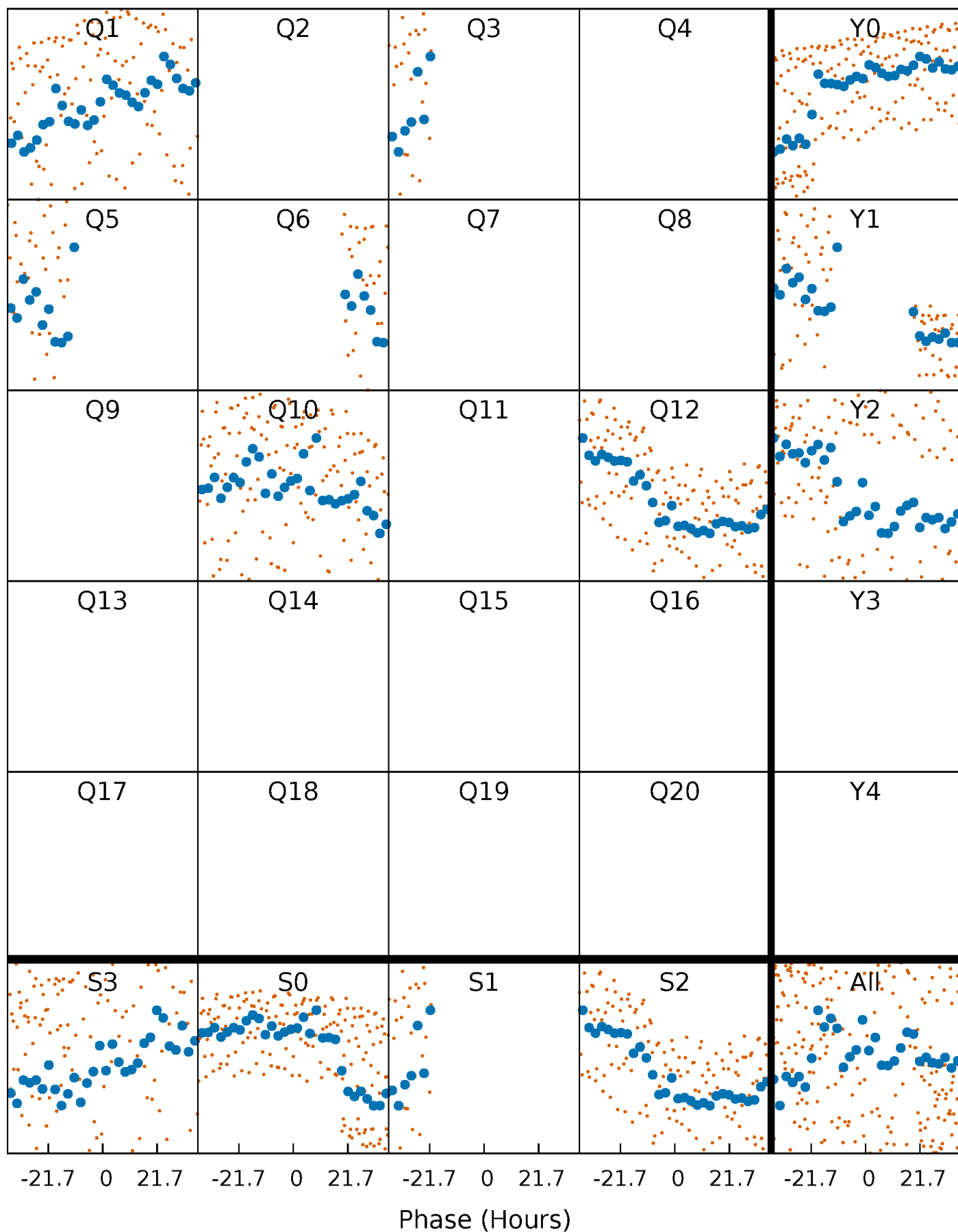


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



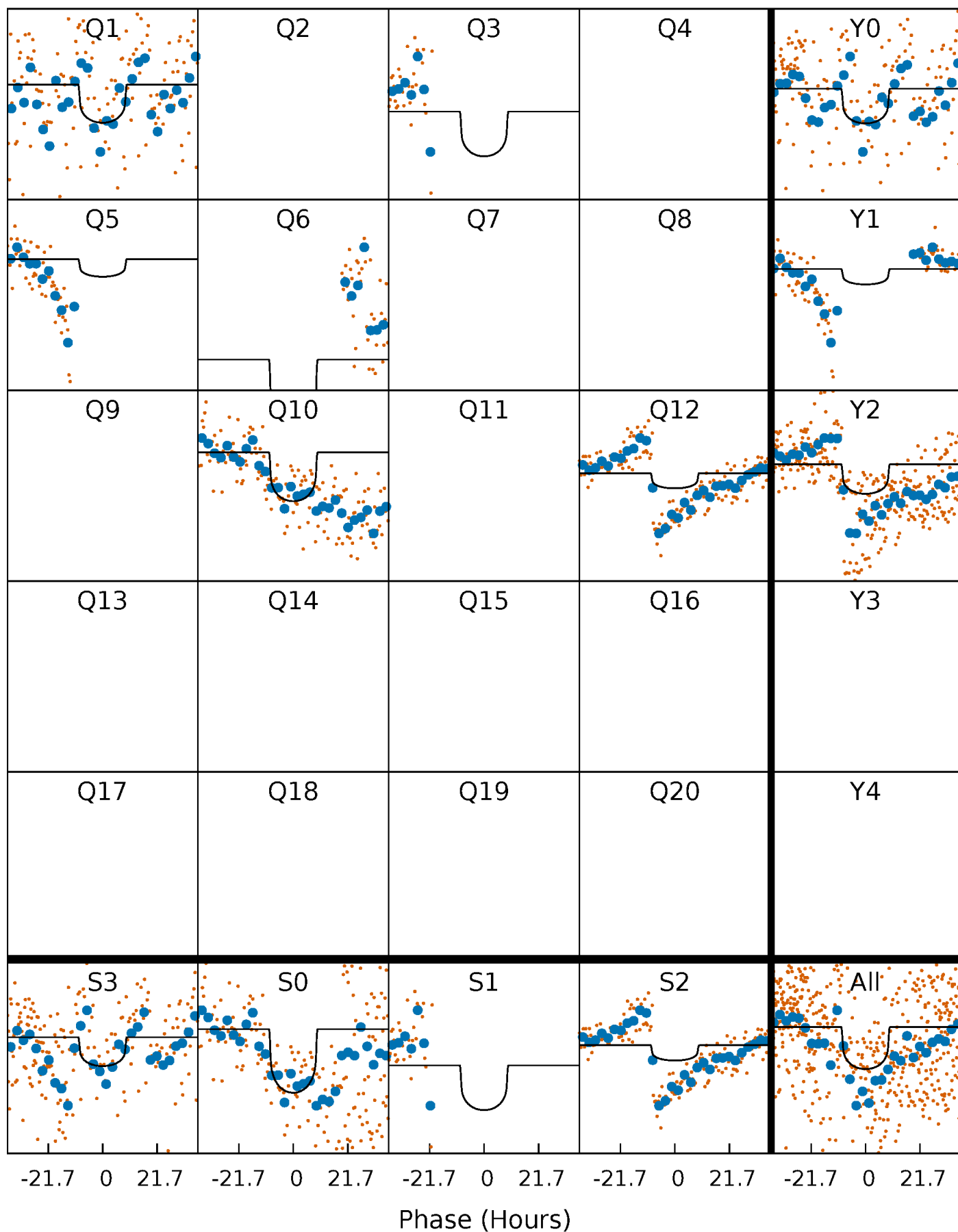
PDC Quarter-Phased Transit Curves

TCE 006050127-02 P=188.301671 Days $T_0=162.056302$ (BKJD)



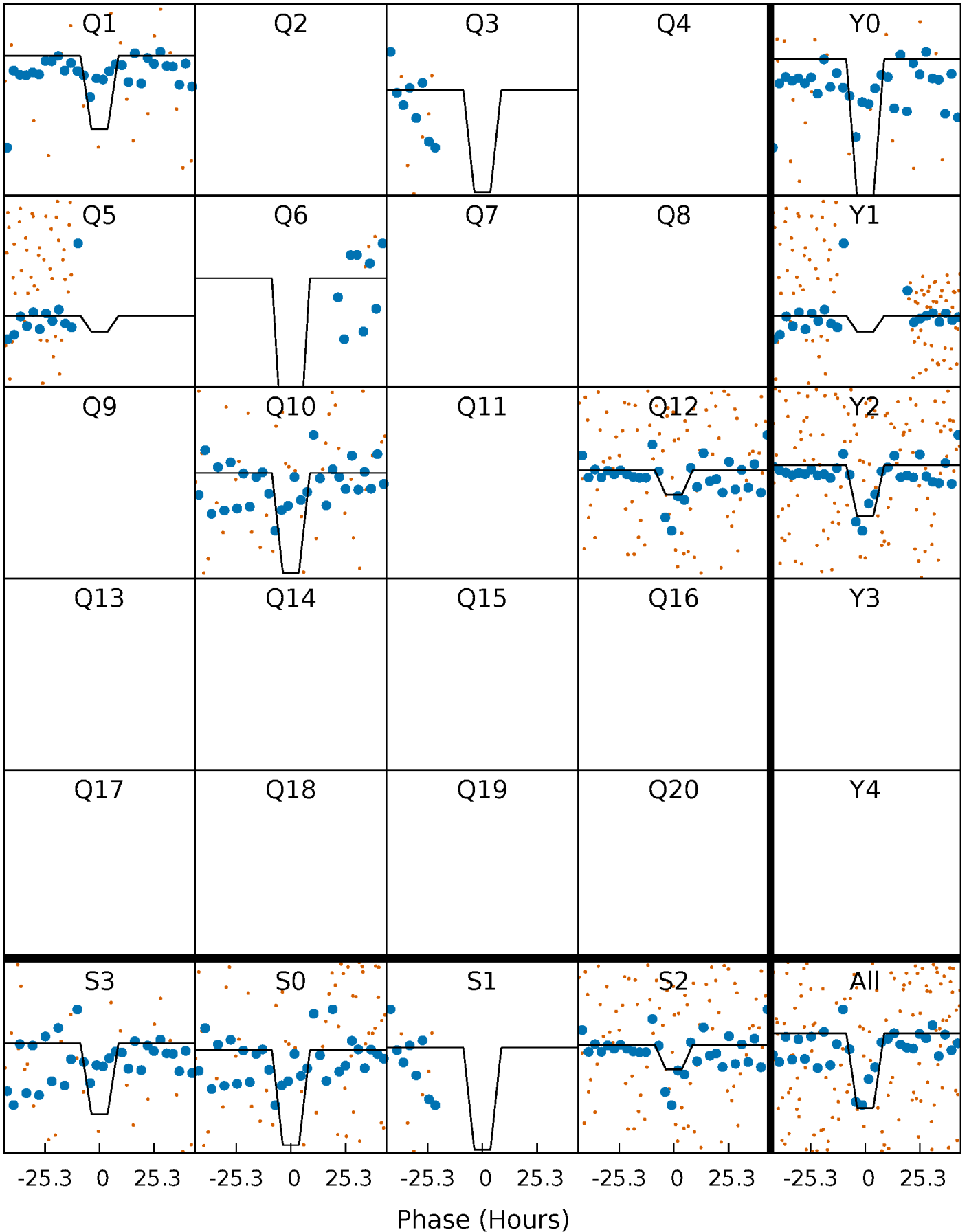
DV Quarter-Phased Transit Curves

TCE 006050127-02 P=188.301671 Days $T_0=162.056302$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

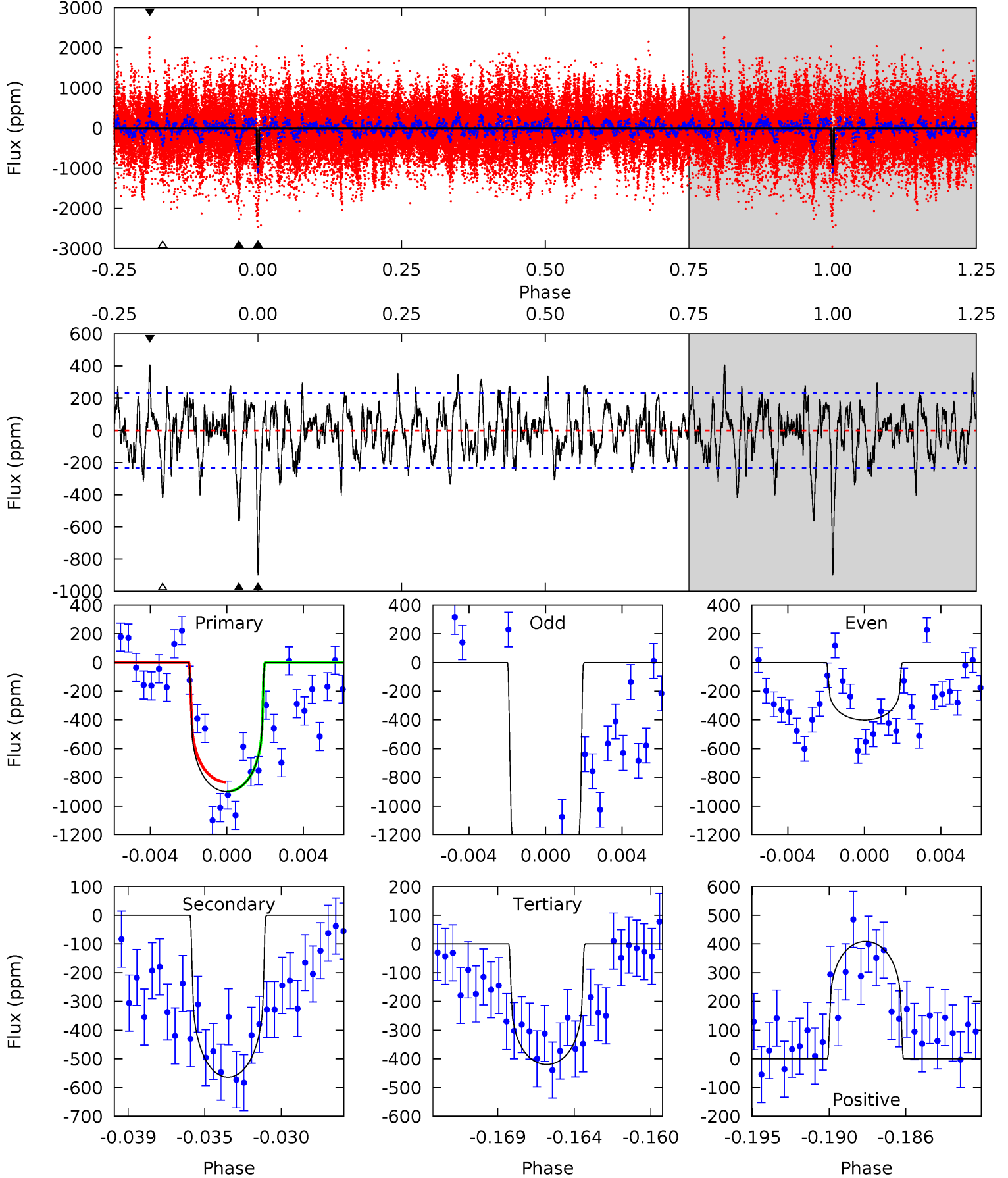
TCE 006050127-02 P=188.259068 Days $T_0=162.106197$ (BKJD)



DV Model-Shift Uniqueness Test

006050127-02, P = 188.301671 Days, E = 162.056302 Days

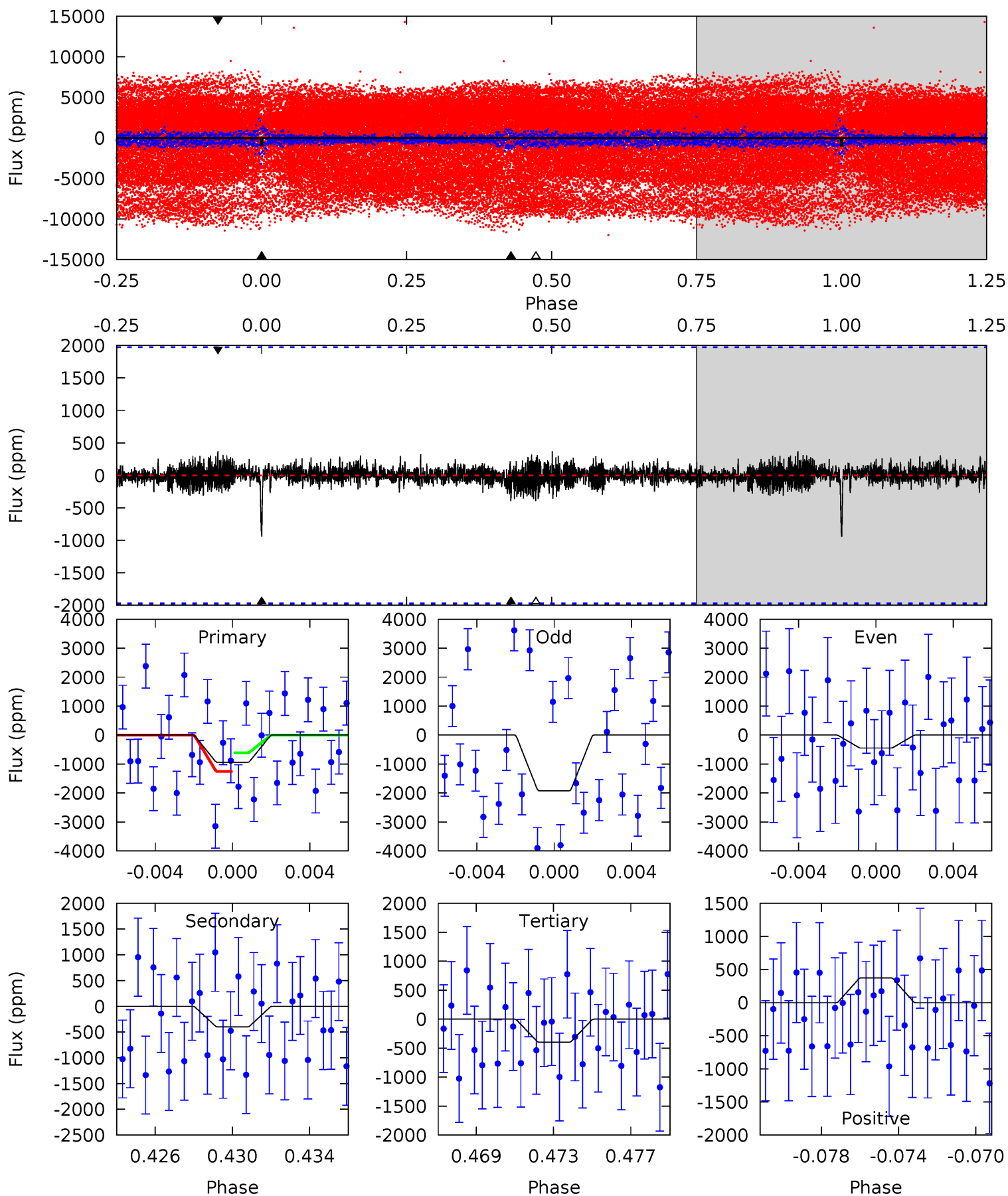
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.0	12.5	9.31	9.07	5.18	2.85	2.92	10.7	10.9	3.20	3.44	15.6	1.70	0.31	0.71



Alt Model-Shift Uniqueness Test

006050127-02, P = 188.259068 Days, E = 162.106197 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.49	1.05	1.05	0.98	5.20	2.89	0.24	1.44	1.50	0.00	0.07	1.92	1.53	0.28	0.85



Stellar Parameters For KIC 006050127

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5691^{+76}_{-85}	$4.544^{+0.016}_{-0.088}$	$0.070^{+0.150}_{-0.150}$	$0.887^{+0.095}_{-0.038}$	$1.003^{+0.042}_{-0.072}$	$2.025^{+0.153}_{-0.512}$
	+1%/-1%	+0%/-2%	+214%/-214%	+11%/-4%	+4%/-7%	+8%/-25%
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 006050127-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-564 ± 45	$2.30^{+1.25}_{-1.14}$	416^{+12}_{-9}	5740^{+2652}_{-1005}	23597^{+71285}_{-13494}
Alt.	-398 ± 379	$3.24^{+1.28}_{-1.35}$	417^{+12}_{-8}	4477^{+1438}_{-6441}	7291^{+19448}_{-7308}

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 006050127-02. Kepler magnitude: 13.56. Transit SNR 5.97

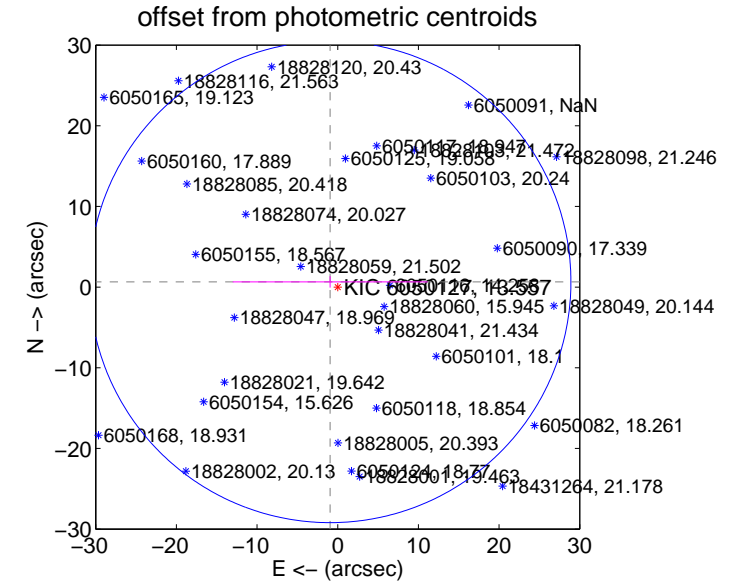
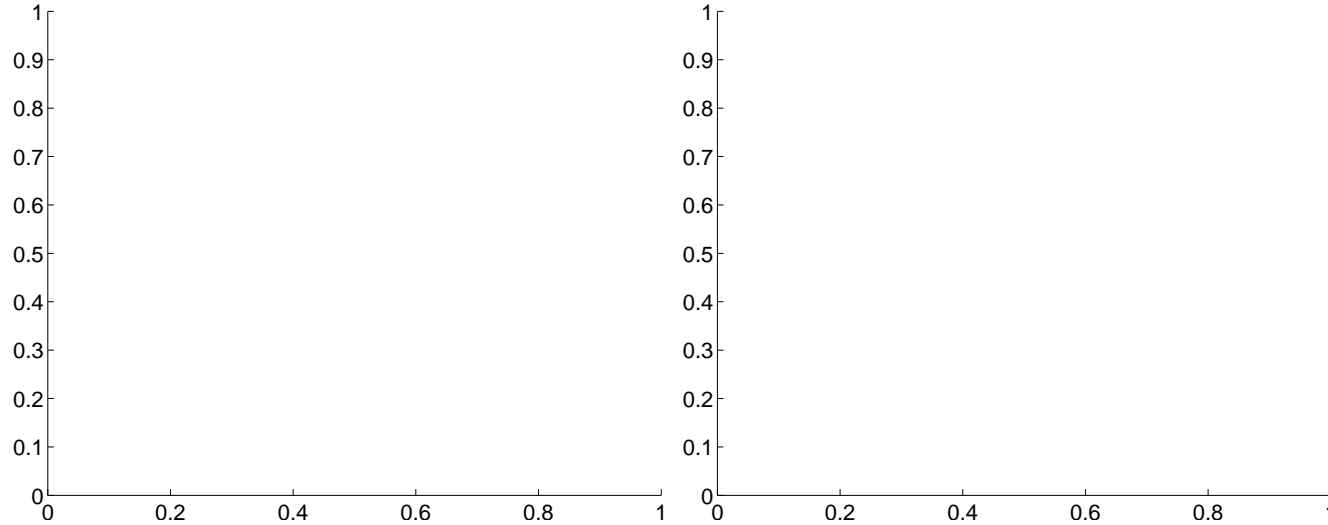
There are 0 quarters with good PRF difference image offsets

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	1.14 ± 9.95	0.11	0.94 ± 12.07	0.65 ± 0.71

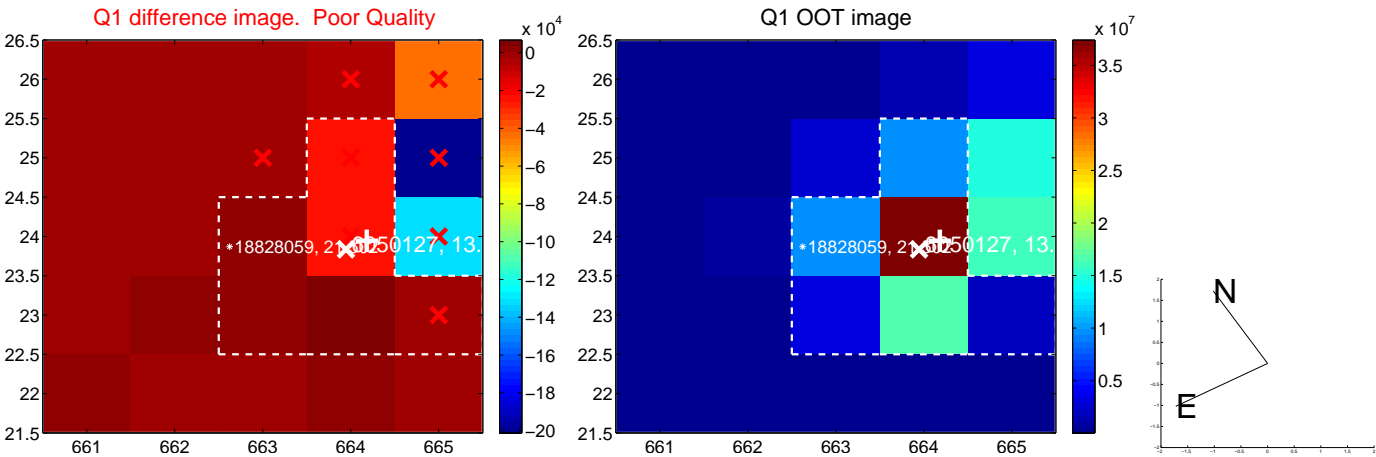
There is no PRF-fit offset from OOT-fit

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.

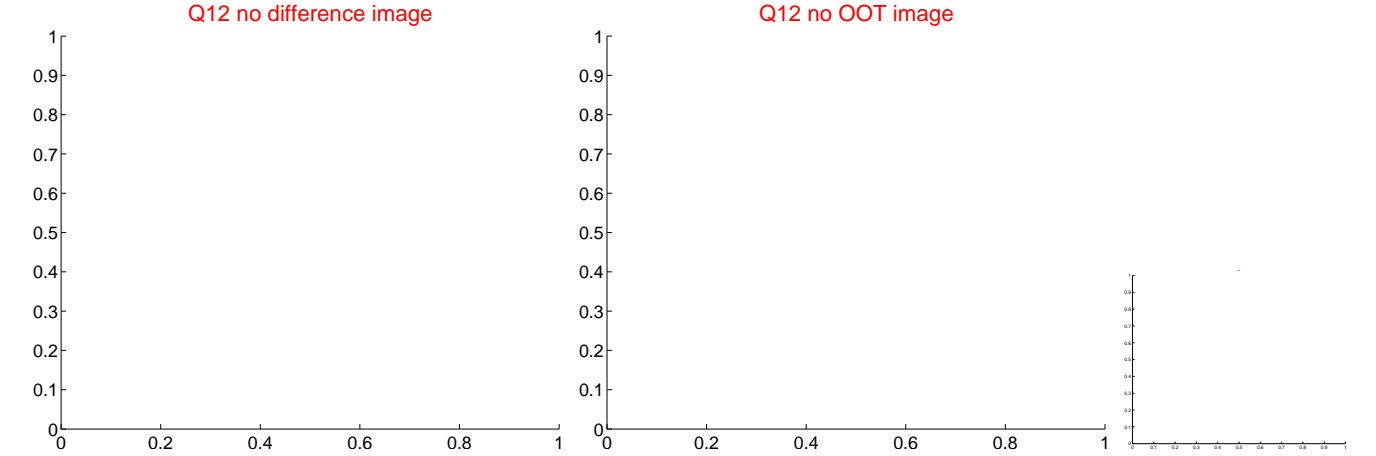
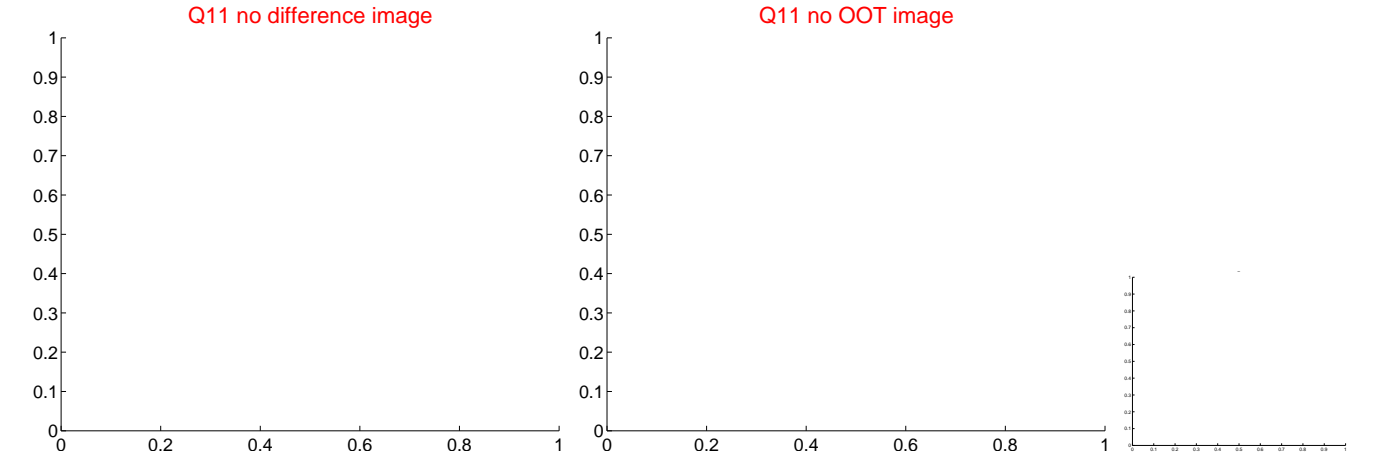
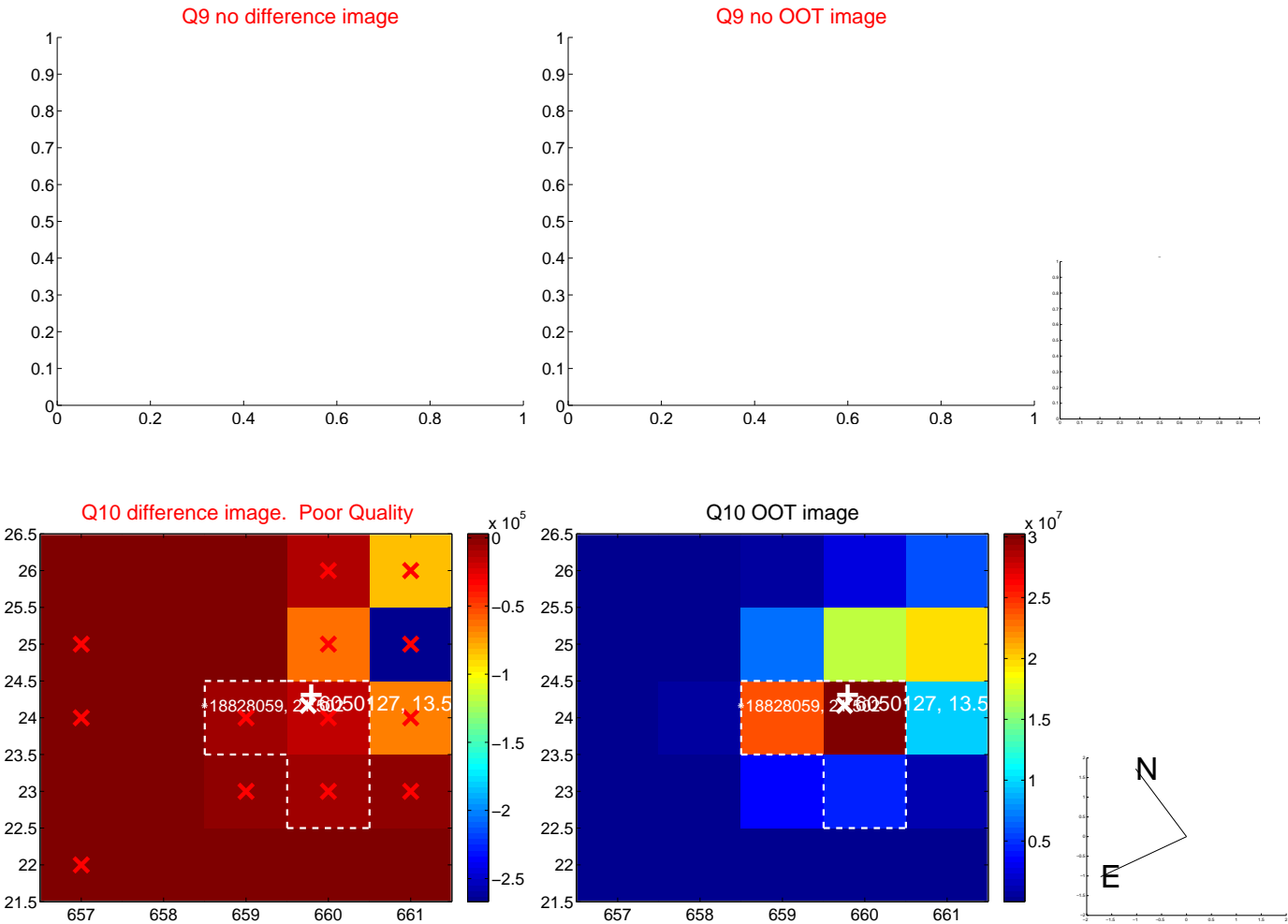
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



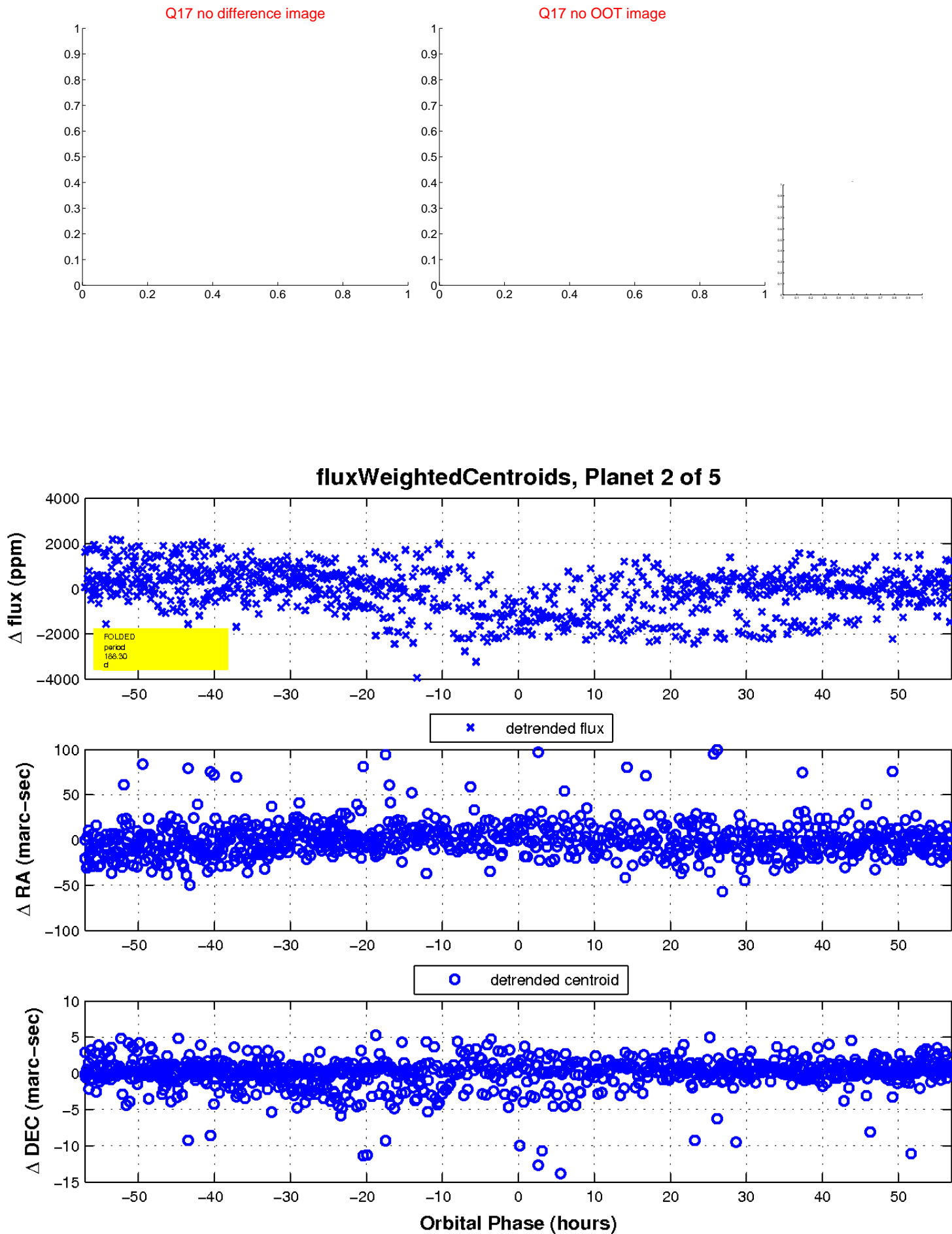
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ×: large negative pixel value.



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

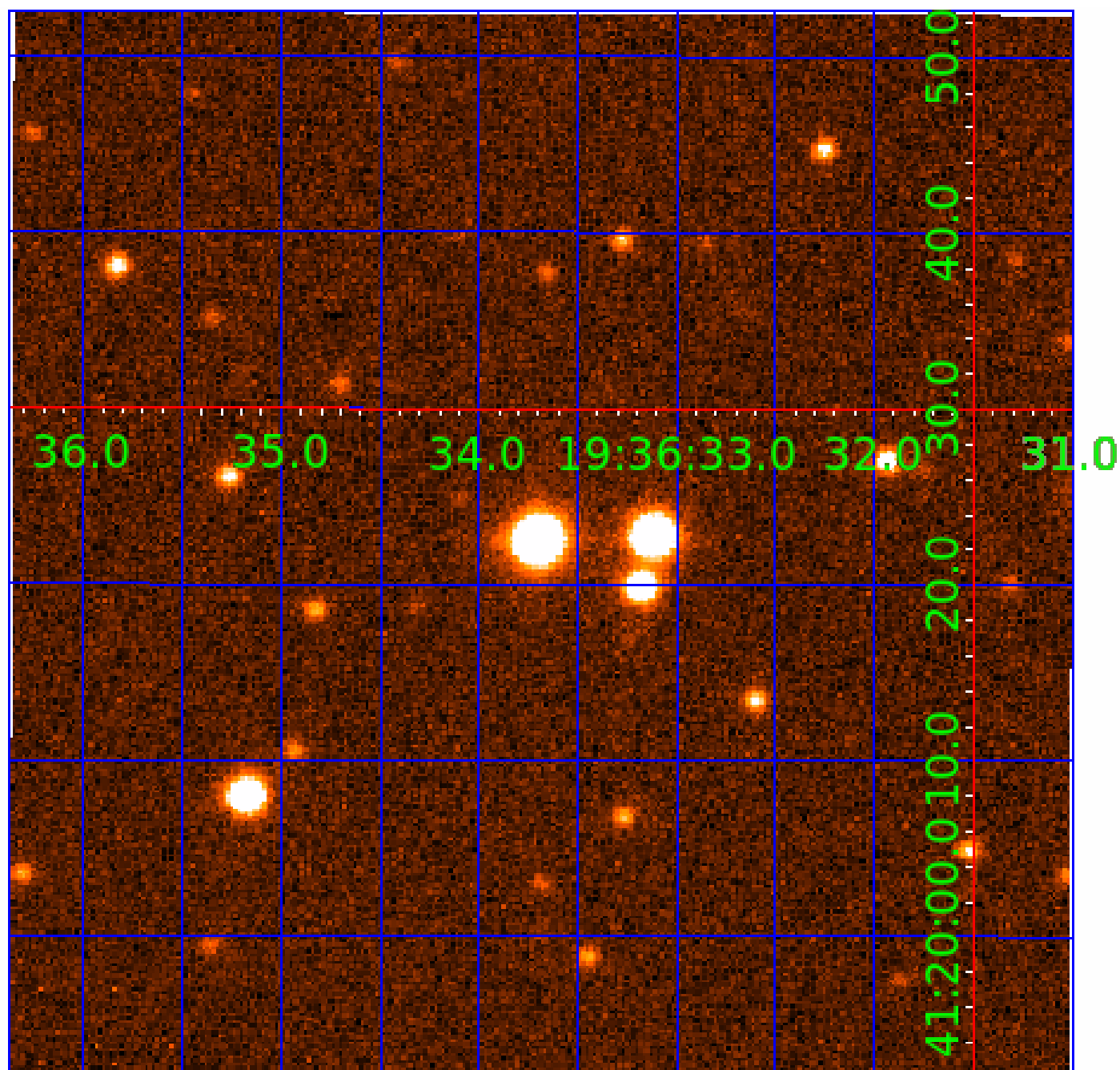


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006050127

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})
006050127-01	OBS	No	380.820916	469.409862	46.4	3.116	14.2	0.6	0.89	5691	0.69	0.70
006050127-02	OBS	No	188.301672	162.056302	589.9	19.015	17.4	6.0	0.89	5691	2.19	1.78
006050127-03	OBS	No	491.663440	532.503263	820.5	3.821	12.2	11.0	0.89	5691	2.79	0.50
006050127-04	OBS	No	511.997234	492.195713	1000.0	5.468	19.3	13.0	0.89	5691	3.53	0.47
006050127-05	OBS	No	332.478802	185.847361	293.4	1.102	14.1	2.1	0.89	5691	1.62	0.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006050127-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_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

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

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

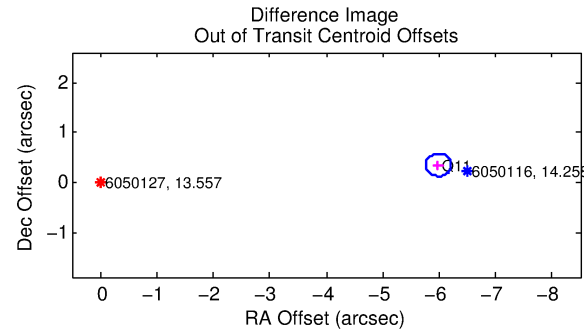
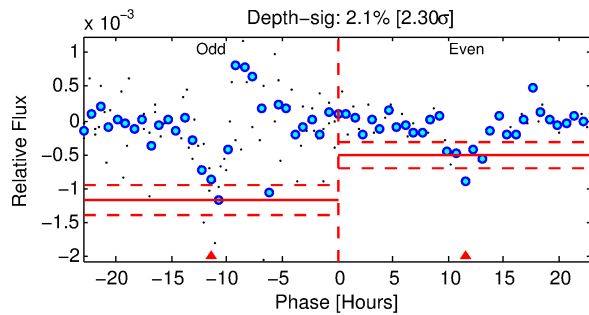
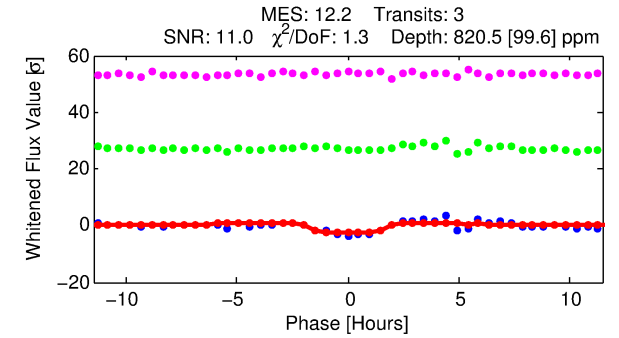
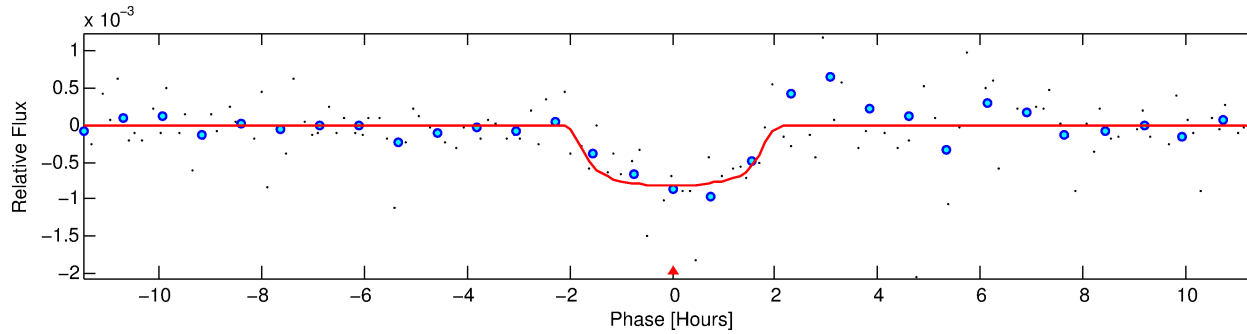
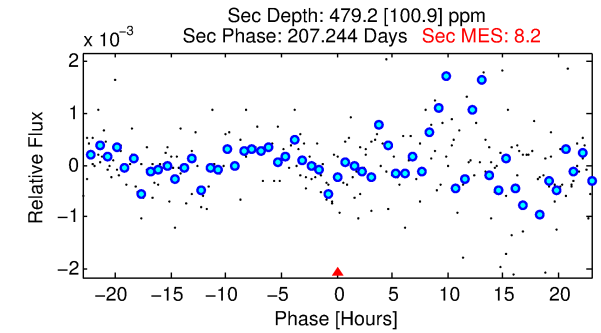
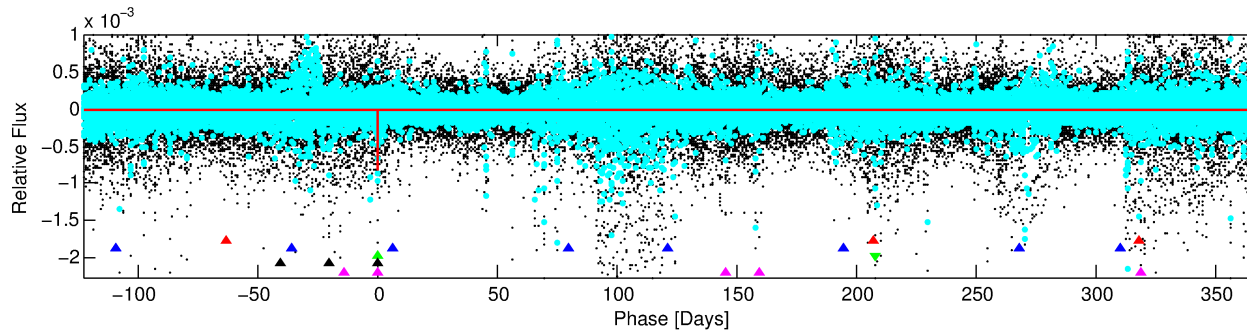
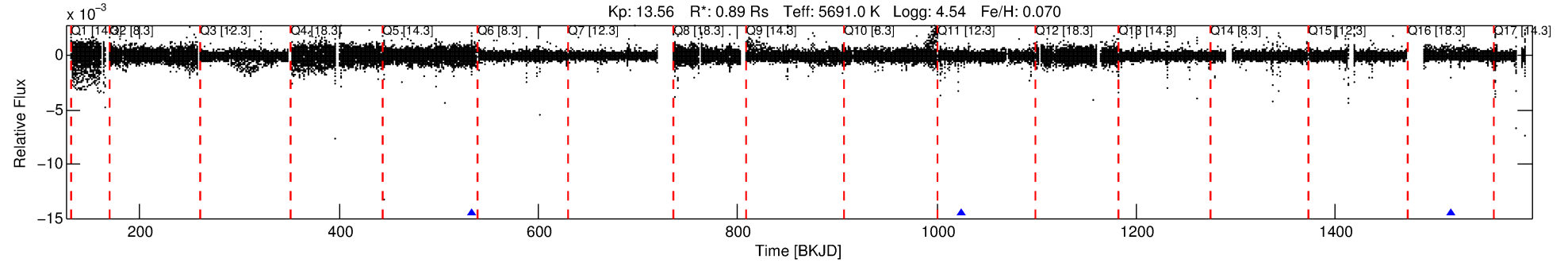
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006050127-03

No Significant Match Found

DV One-Page Summary

KIC: 6050127 Candidate: 3 of 5 Period: 491.663 d



DV Fit Results:

Period = 491.66344 [0.00720] d
Epoch = 532.5033 [0.0104] BKJD
Rp/R* = 0.0289 [0.0428]
a/R* = 661.79 [4196.17]
b = 0.78 [3.28]
Seff = 0.50 [0.08]
Teq = 214 [9] K
Rp = 2.80 [4.15] Re
a = 1.2211 [0.1200] AU
Ag = 50308.62 [149669.17] [0.34σ]
Teffp = 4955 [3681] K [1.29σ]

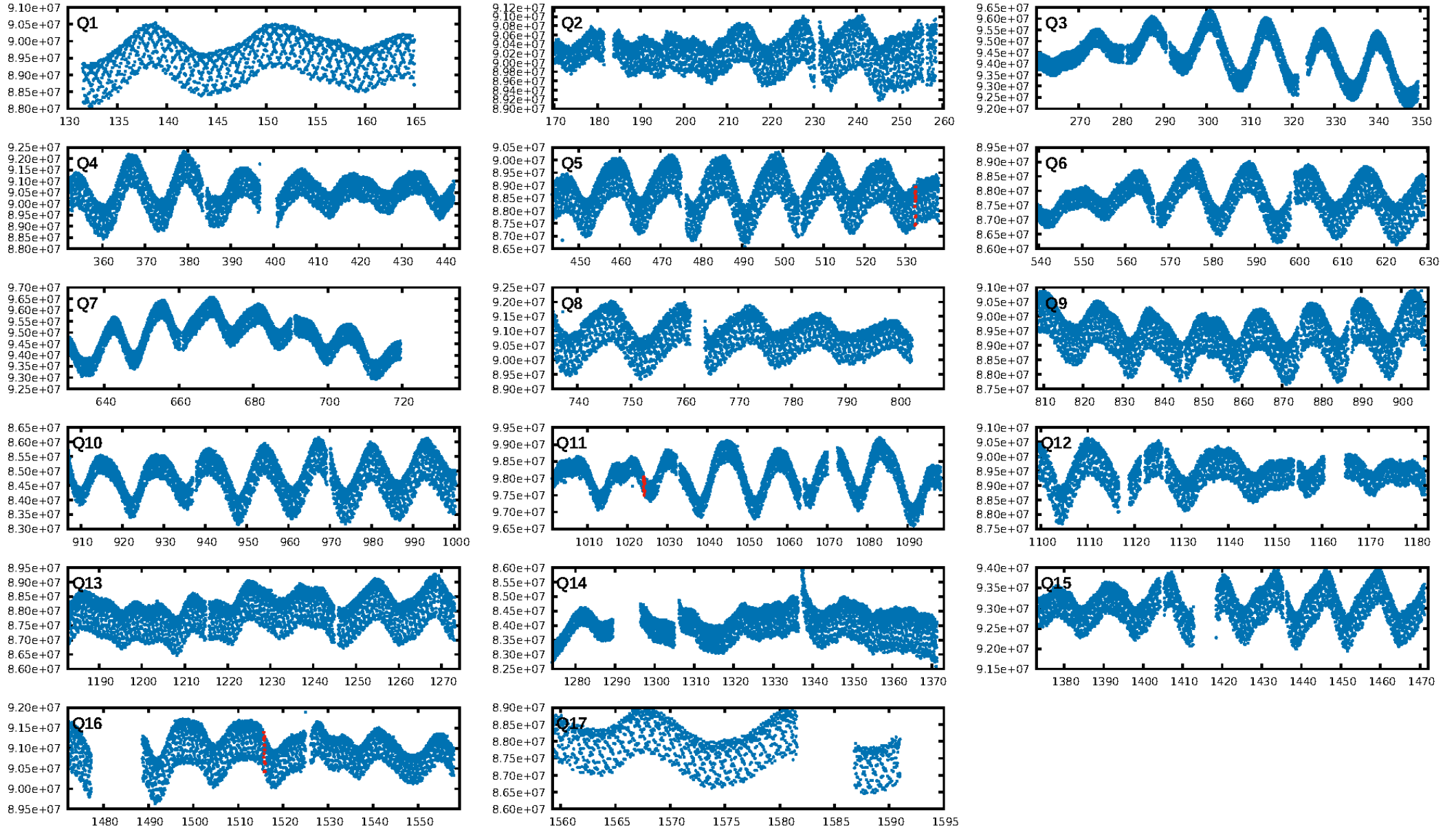
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [539.55σ]
LongPeriod-sig: 100.0% [73.15σ]
ModelChiSquare2-sig: 2.0%
ModelChiSquareGof-sig: 55.6%
Bootstrap-pfa: 2.41e-07
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.171
Centroid-sig: N/A
Centroid-so: 4.721 arcsec [0.43σ]
OotOffset-rm: 5.989 arcsec [80.17σ]
KicOffset-rm: 6.382 arcsec [85.43σ]
OotOffset-st: 0/1/0/0 [1]
KicOffset-st: 0/1/0/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

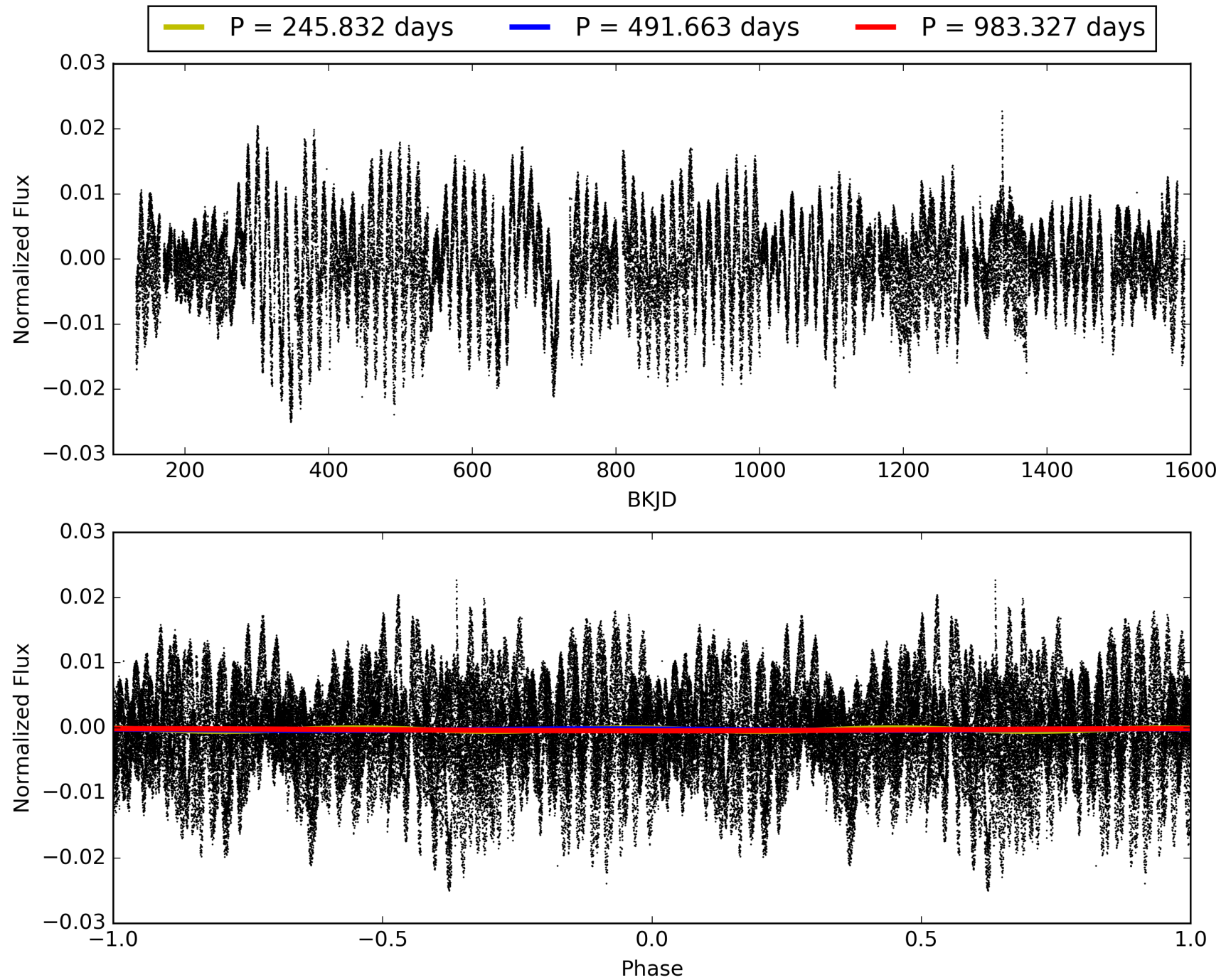
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:12:30 Z

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

TCE 006050127-03, PDC Light Curves

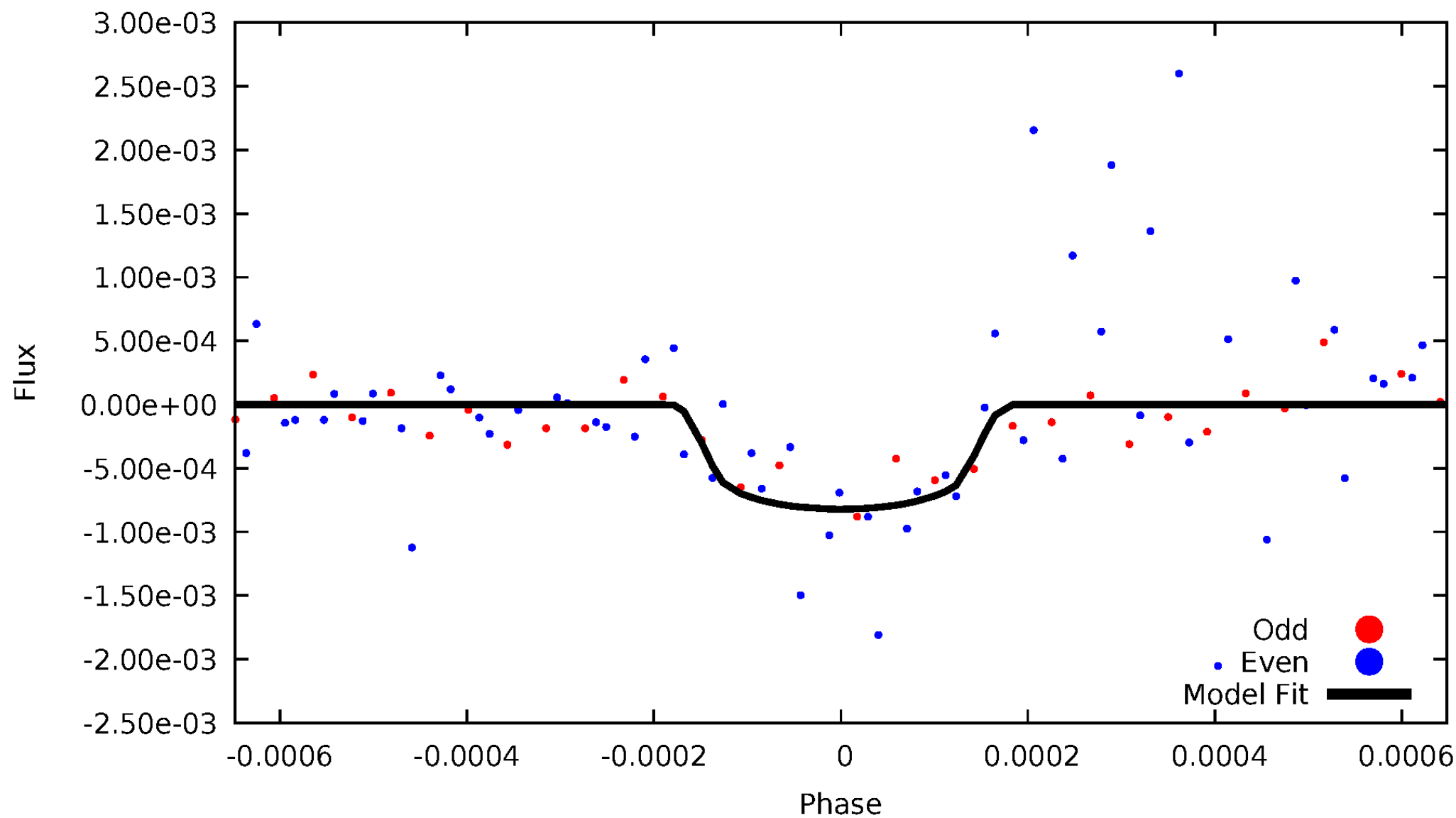


TCE 006050127-03



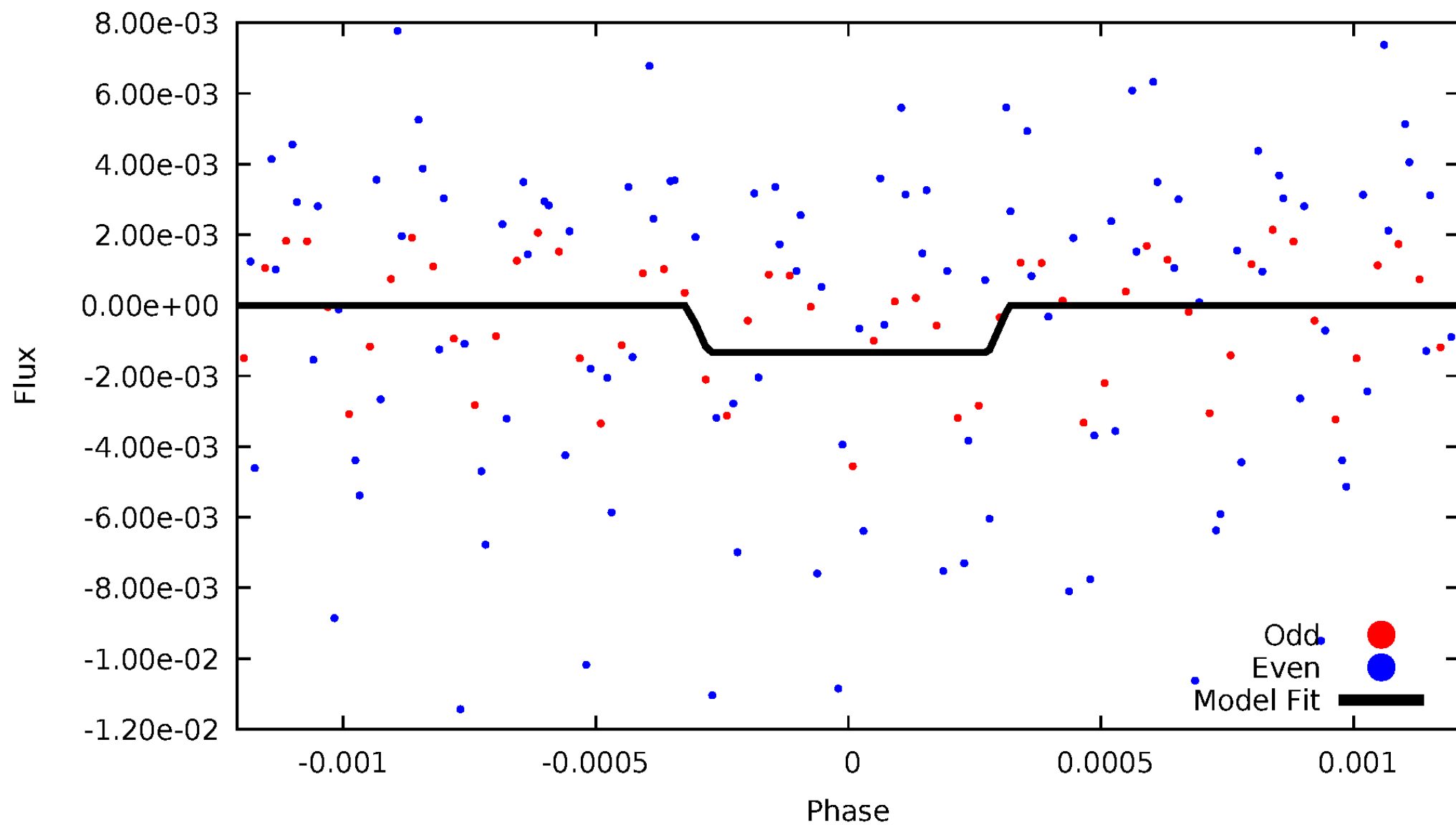
DV Odd/Even

TCE 006050127-03

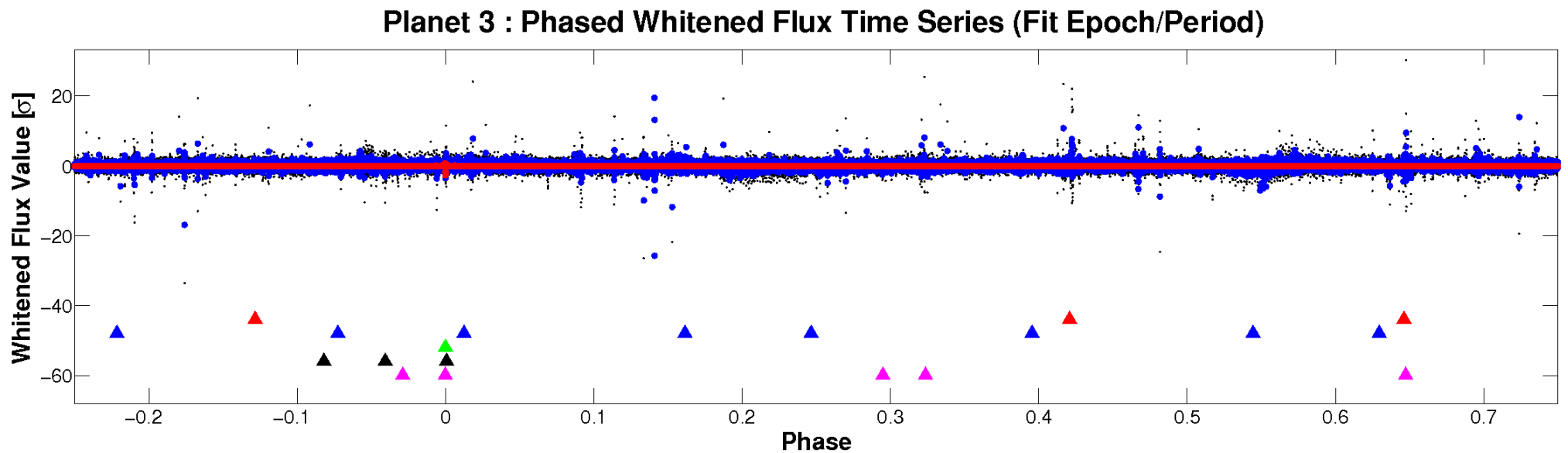
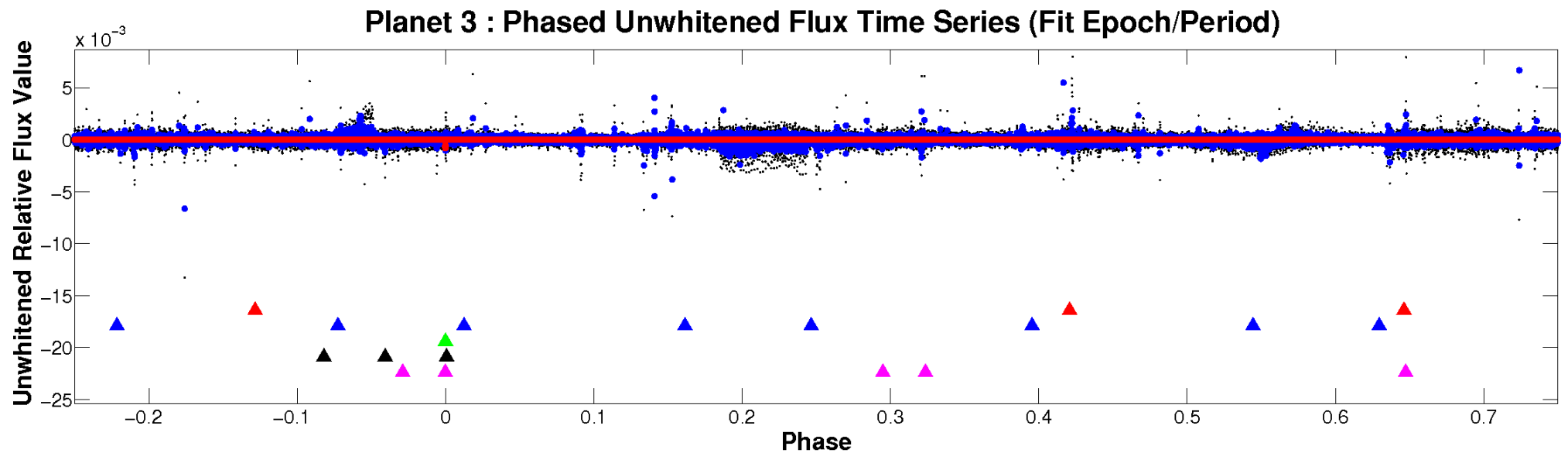


ALT Odd/Even

TCE 006050127-03

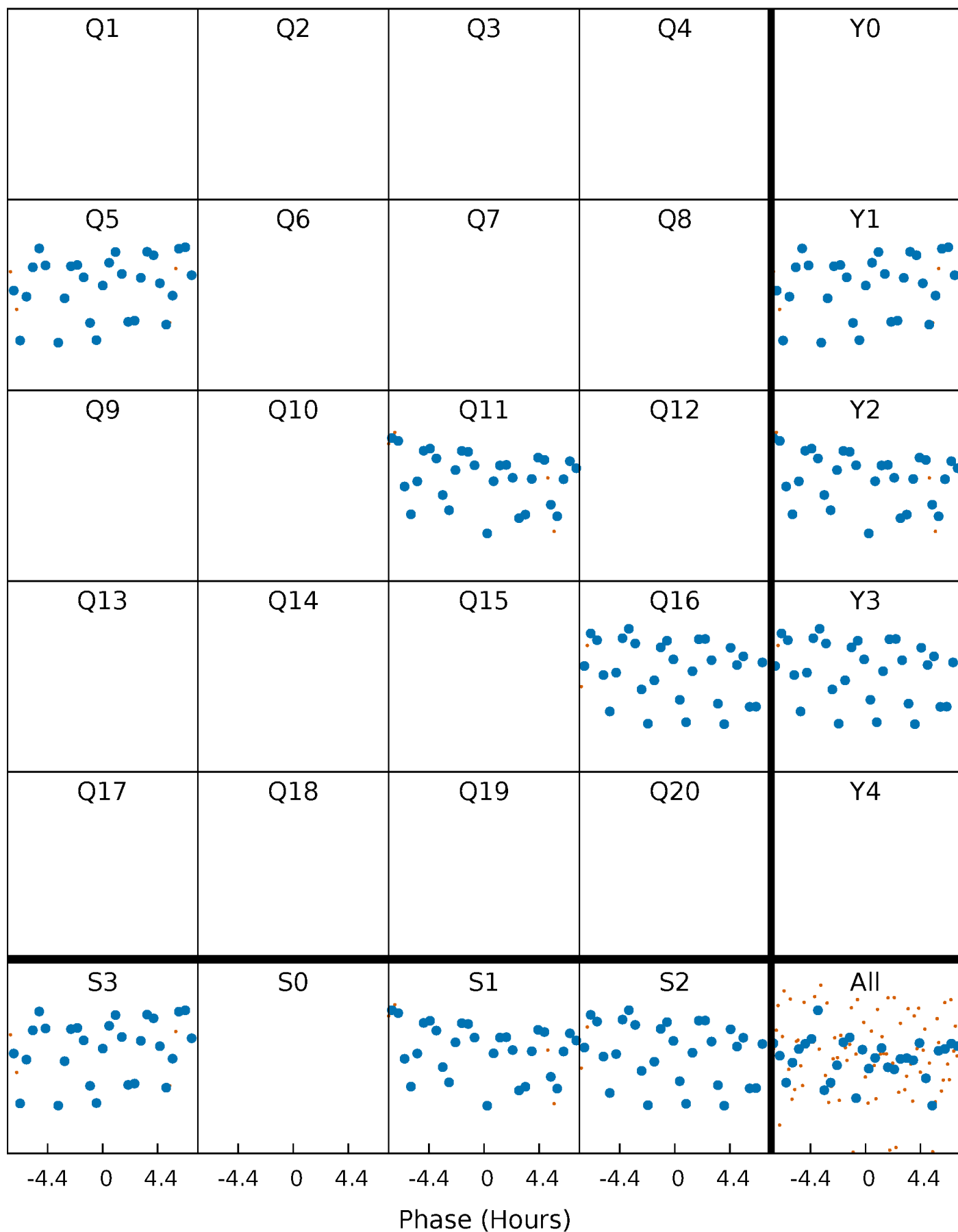


Non-Whitened Vs. Whitened Light Curve



PDC Quarter-Phased Transit Curves

TCE 006050127-03 P=491.663440 Days $T_0=532.503263$ (BKJD)



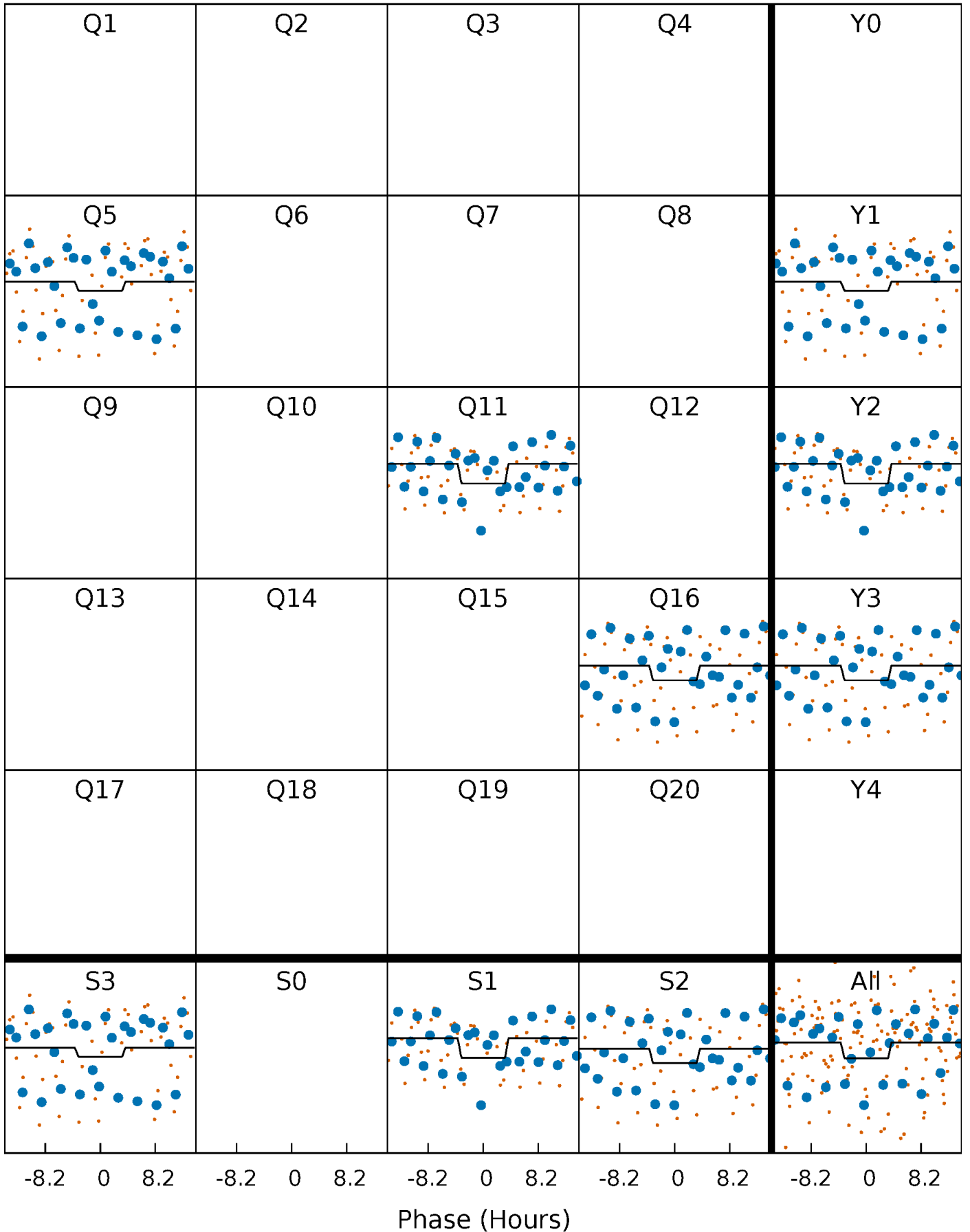
DV Quarter-Phased Transit Curves

TCE 006050127-03 $P=491.663440$ Days $T_0=532.503263$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

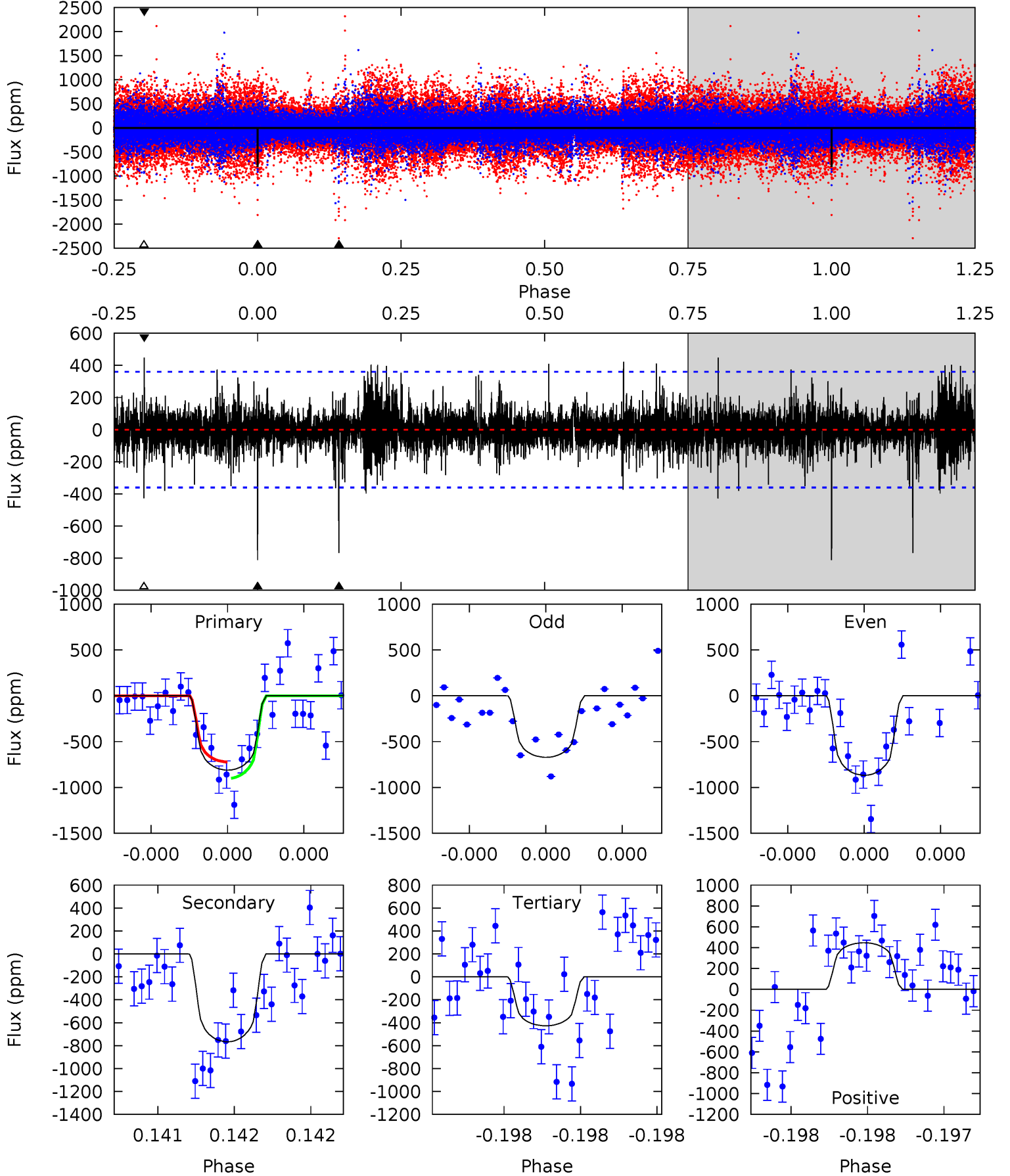
TCE 006050127-03 $P=491.679132$ Days $T_0=532.491837$ (BKJD)



DV Model-Shift Uniqueness Test

006050127-03, P = 491.663440 Days, E = 40.839823 Days

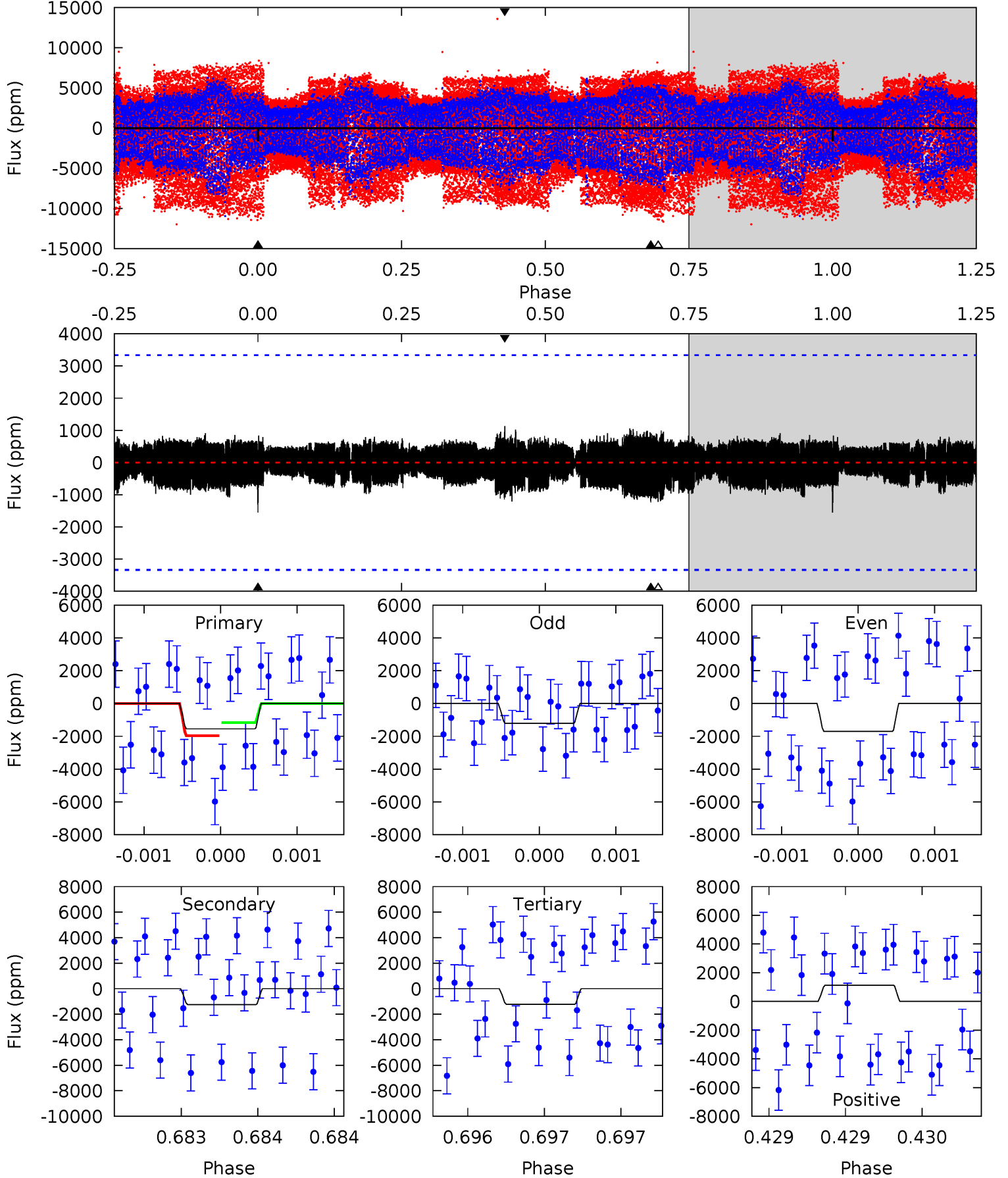
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.7	12.0	6.68	6.99	5.63	3.57	1.26	6.01	5.70	5.31	5.00	1.32	1.07	0.36	1.40



Alt Model-Shift Uniqueness Test

006050127-03, P = 491.679132 Days, E = 40.812705 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
2.57	2.06	2.02	1.87	5.54	3.43	0.69	0.55	0.70	0.04	0.18	0.38	1.10	0.42	0.66



Stellar Parameters For KIC 006050127

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5691^{+76}_{-85}	$4.544^{+0.016}_{-0.088}$	$0.070^{+0.150}_{-0.150}$	$0.887^{+0.095}_{-0.038}$	$1.003^{+0.042}_{-0.072}$	$2.025^{+0.153}_{-0.512}$
	+1%/-1%	+0%/-2%	+214%/-214%	+11%/-4%	+4%/-7%	+8%/-25%
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 006050127-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-767 ± 64	$4.26^{+3.44}_{-2.75}$	303^{+8}_{-6}	4723^{+3041}_{-928}	$34913^{+223290}_{-24192}$
Alt.	-1240 ± 602	$4.70^{+3.87}_{-3.07}$	302^{+8}_{-6}	4895^{+3966}_{-1097}	$41088^{+337472}_{-30430}$

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 $A_{obs} \gg 1.0$

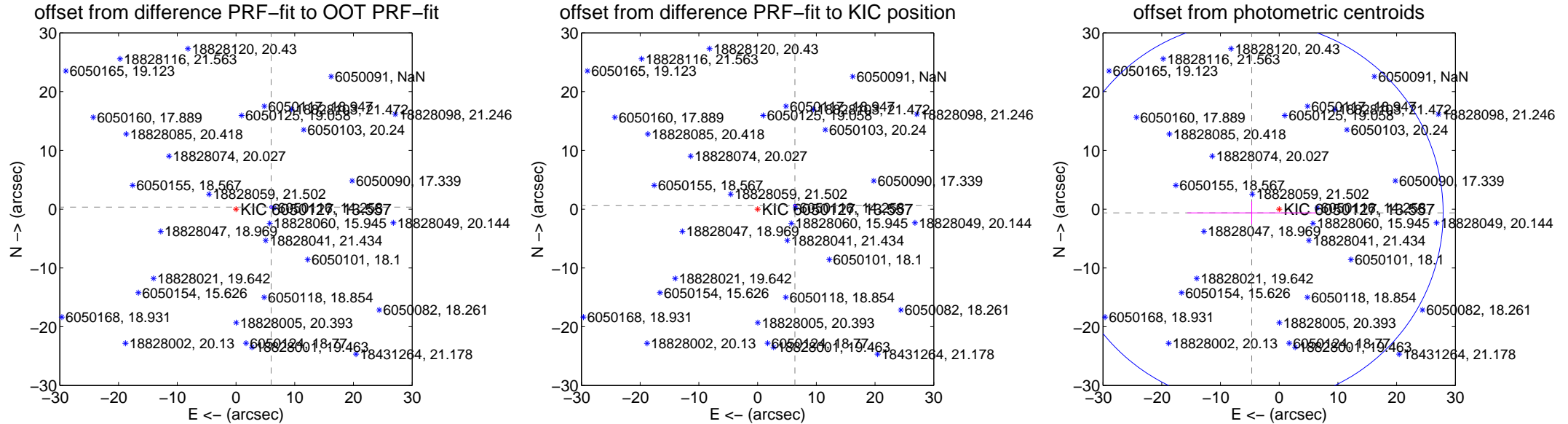
DV Centroid Data

Supplemental centroid analysis for 006050127-03. Kepler magnitude: 13.56. Transit SNR 10.96

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.46 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.989 ± 0.075	80.17	-5.979 ± 0.075	0.342 ± 0.076
PRF-fit source offset from KIC position	6.382 ± 0.075	85.43	-6.353 ± 0.075	0.609 ± 0.076
photometric centroid source offset	4.72 ± 10.86	0.43	4.68 ± 10.96	-0.64 ± 1.93

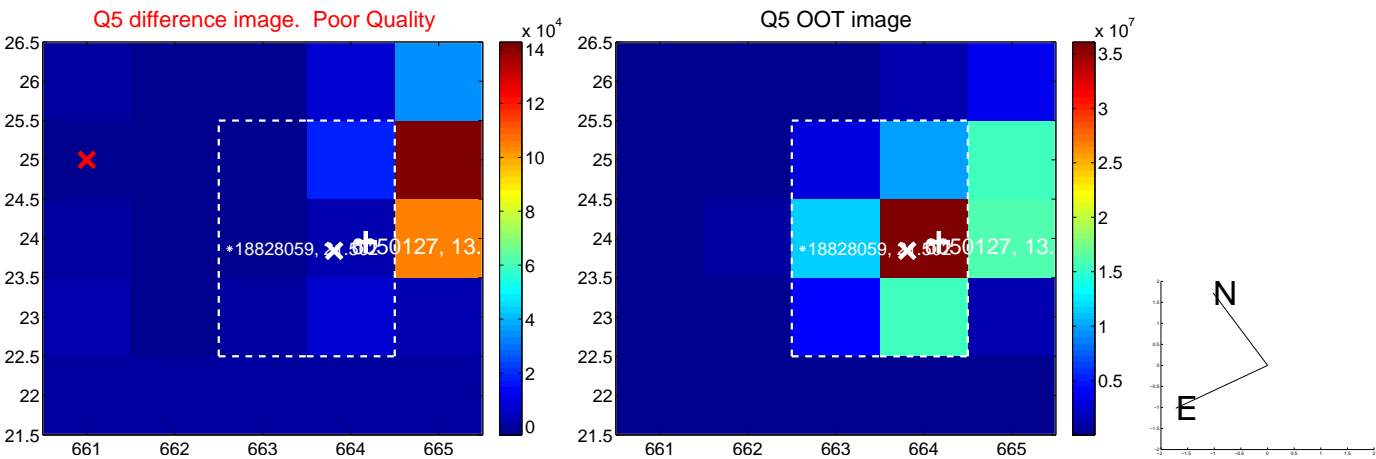


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

Q9 no difference image



Q9 no OOT image



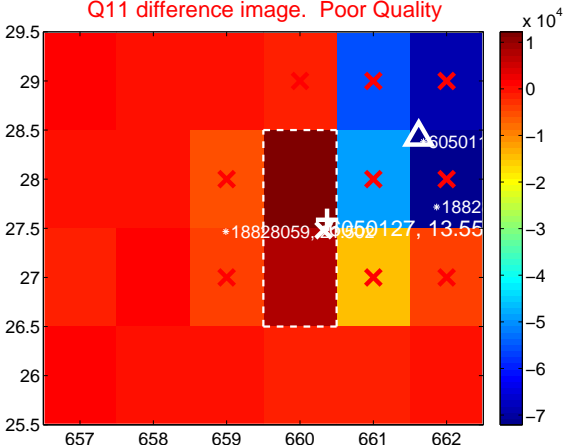
Q10 no difference image



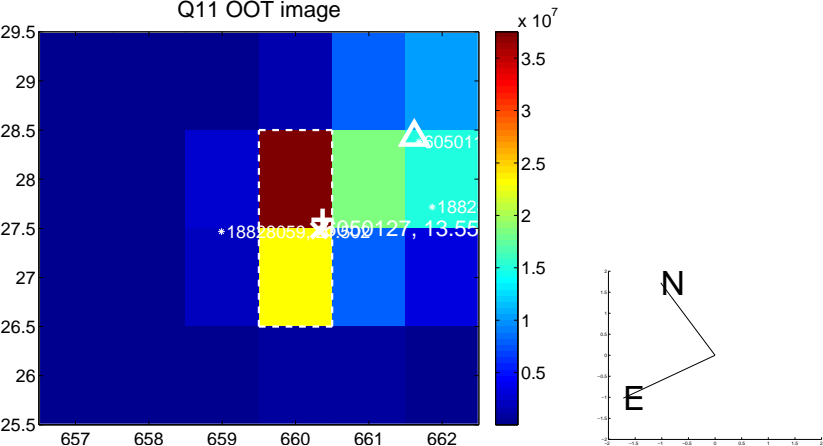
Q10 no OOT image



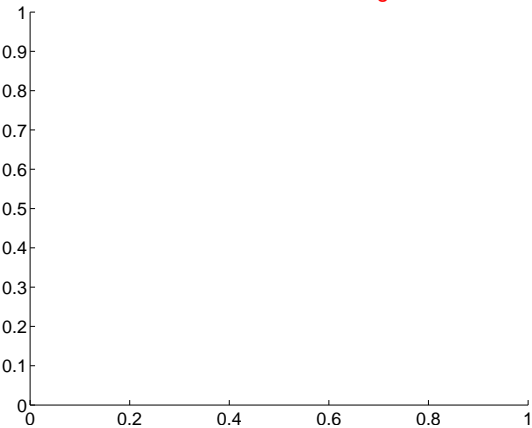
Q11 difference image. Poor Quality



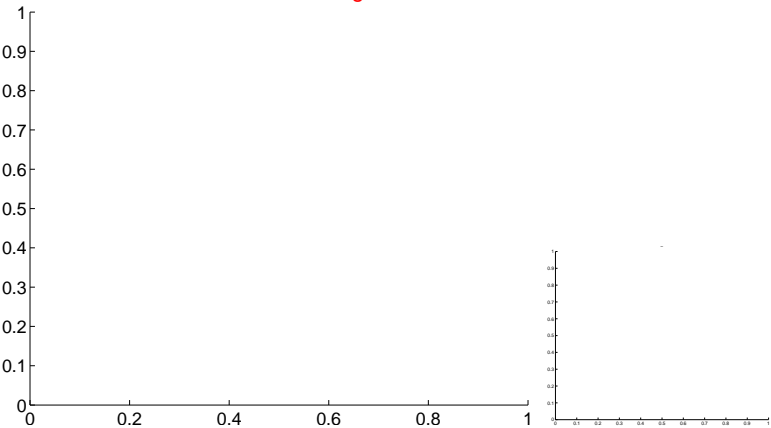
Q11 OOT image



Q12 no difference image



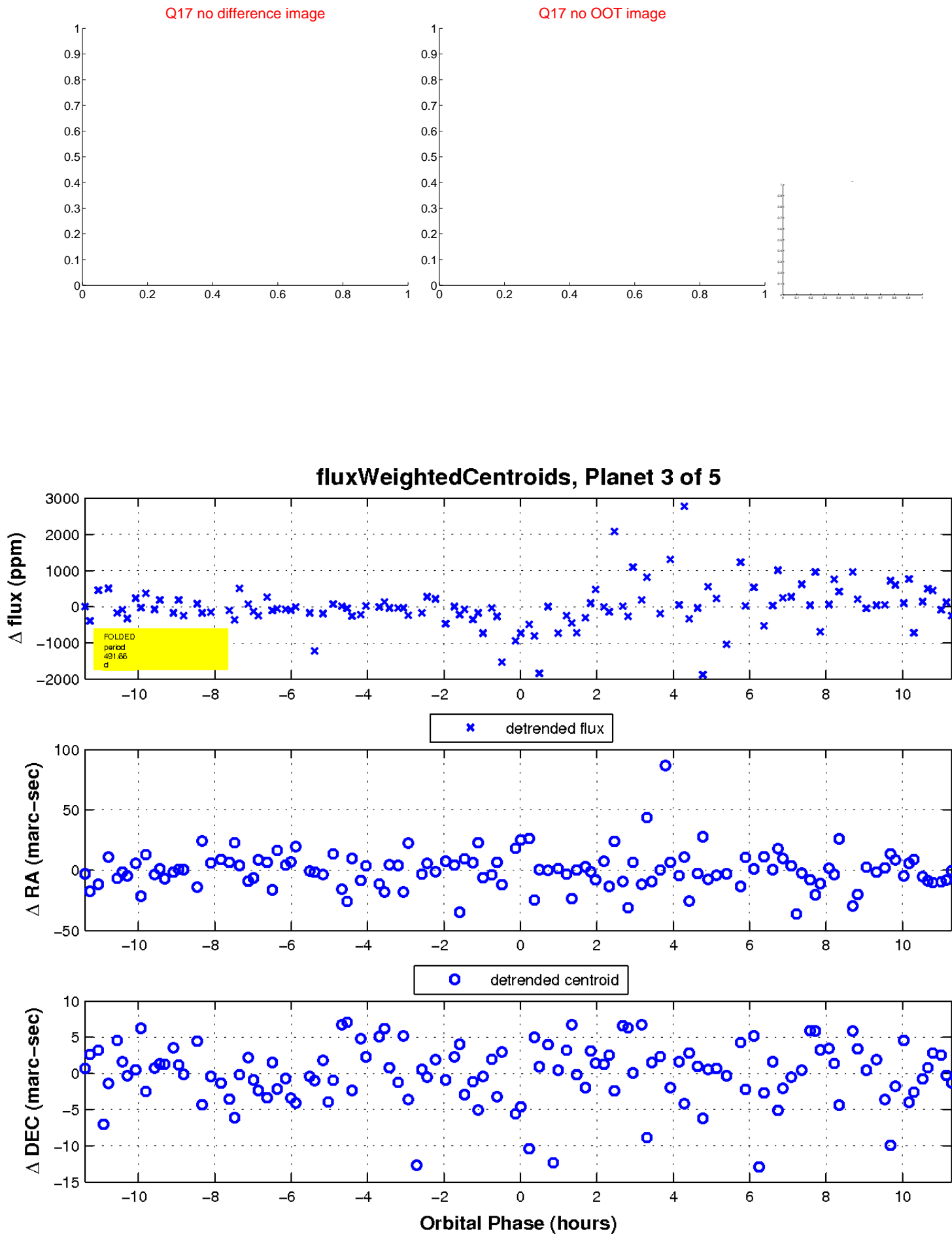
Q12 no OOT image



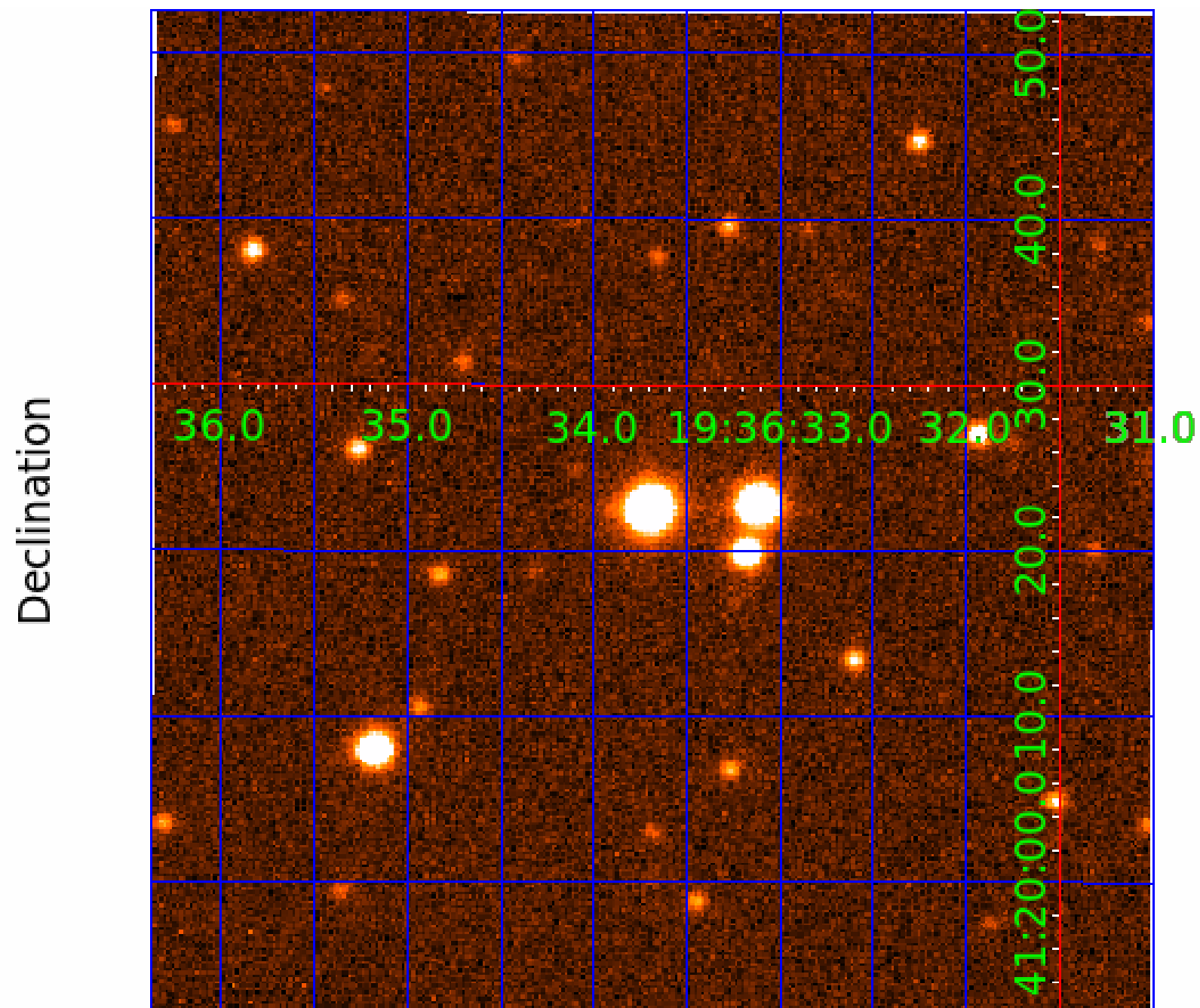
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 006050127

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})
006050127-01	OBS	No	380.820916	469.409862	46.4	3.116	14.2	0.6	0.89	5691	0.69	0.70
006050127-02	OBS	No	188.301672	162.056302	589.9	19.015	17.4	6.0	0.89	5691	2.19	1.78
006050127-03	OBS	No	491.663440	532.503263	820.5	3.821	12.2	11.0	0.89	5691	2.79	0.50
006050127-04	OBS	No	511.997234	492.195713	1000.0	5.468	19.3	13.0	0.89	5691	3.53	0.47
006050127-05	OBS	No	332.478802	185.847361	293.4	1.102	14.1	2.1	0.89	5691	1.62	0.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006050127-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_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

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

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

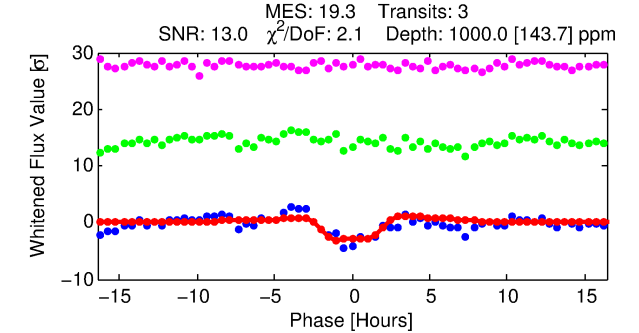
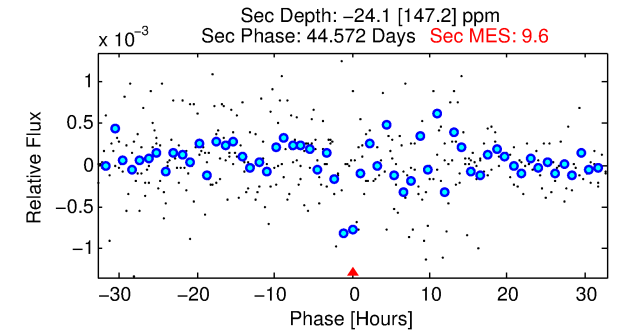
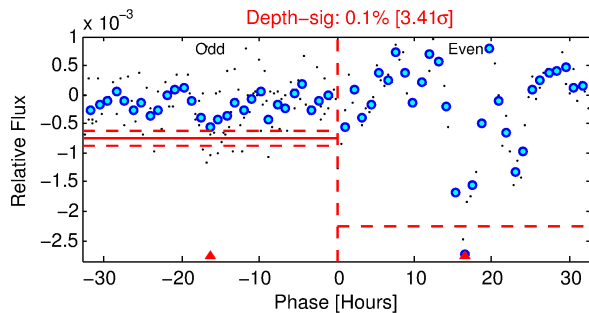
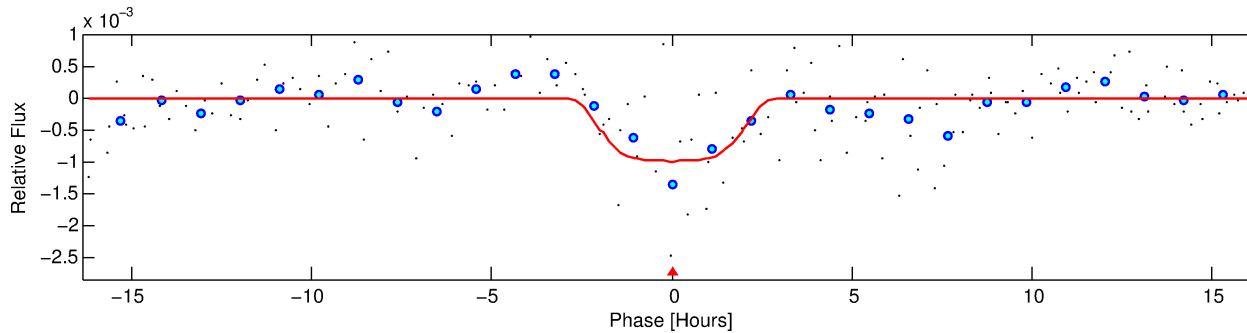
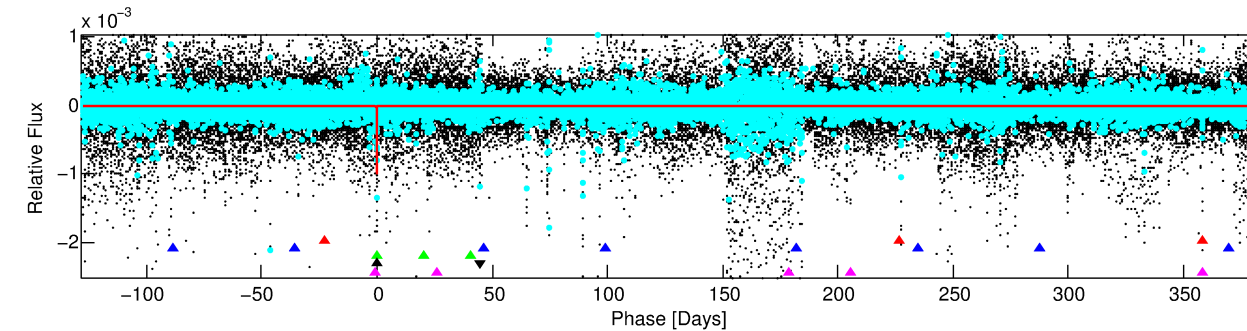
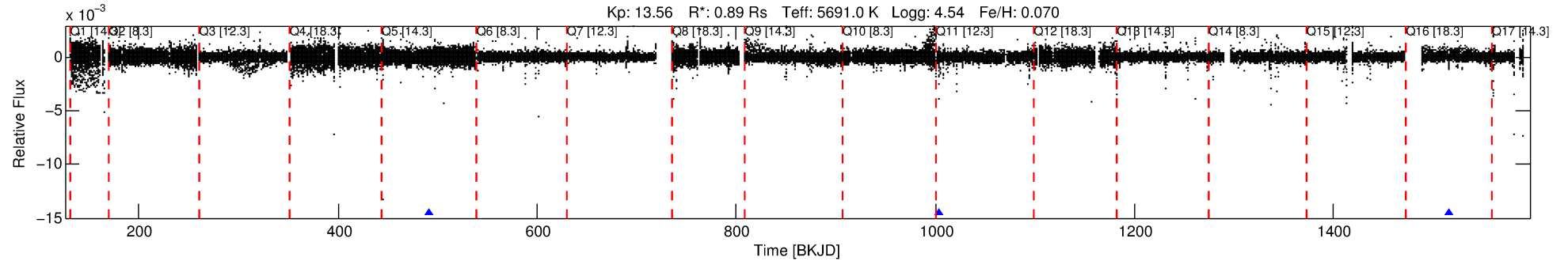
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006050127-04

No Significant Match Found

DV One-Page Summary

KIC: 6050127 Candidate: 4 of 5 Period: 511.997 d



DV Fit Results:

Period = 511.99723 [0.00804] d
Epoch = 492.1957 [0.0122] BKJD
Rp/R* = 0.0365 [0.0050]
a/R* = 312.24 [130.74]
b = 0.94 [0.05]
Seff = 0.47 [0.08]
Teq = 211 [9] K
Rp = 3.53 [0.61] Re
a = 1.2546 [0.1233] AU
Ag = N/A
Teffp = N/A

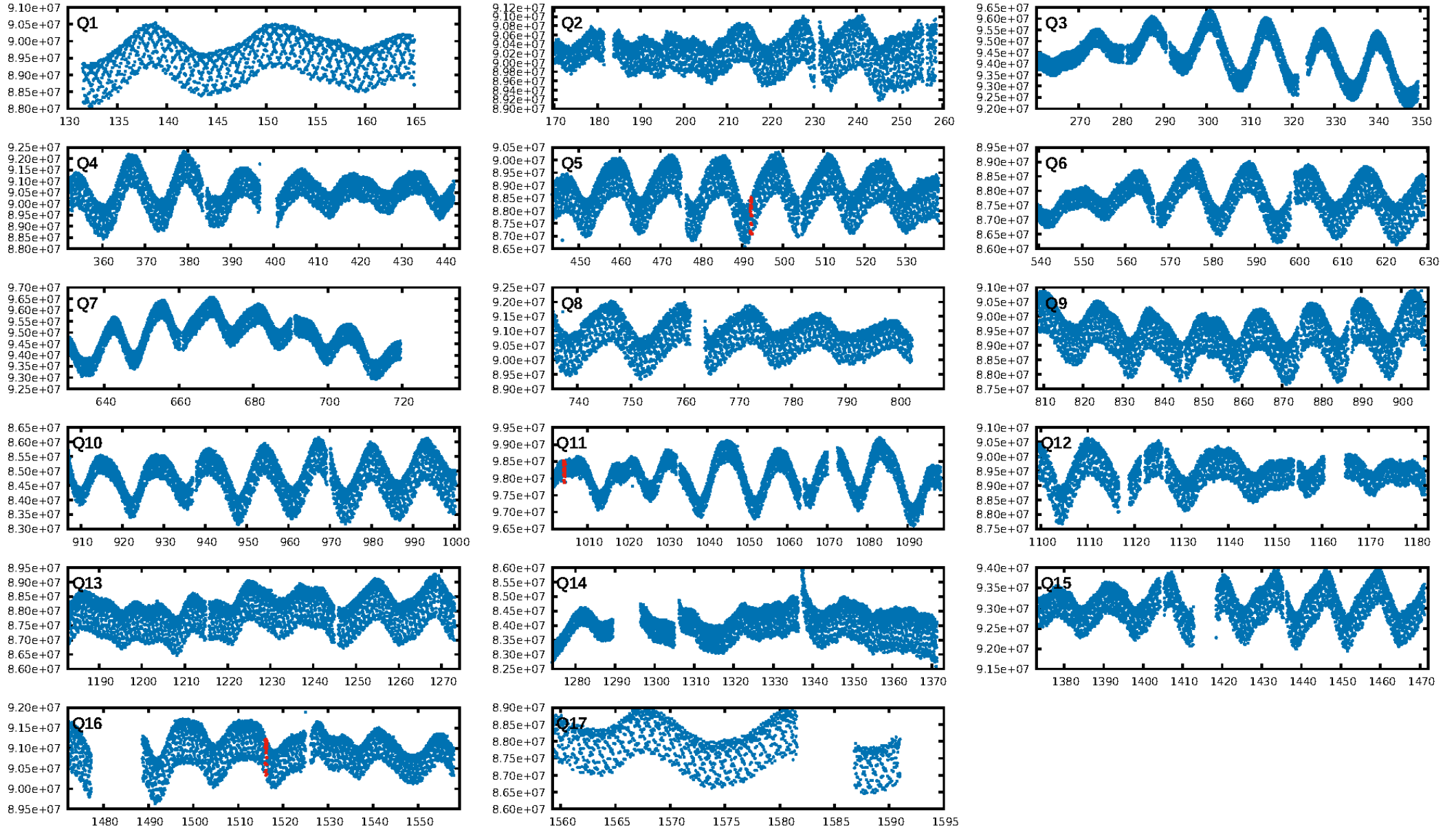
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [73.15σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 6.4%
Bootstrap-pfa: 4.75e-12
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.873
Centroid-sig: N/A
Centroid-so: 7.308 arcsec [0.86σ]
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: 1.00 [1/1]

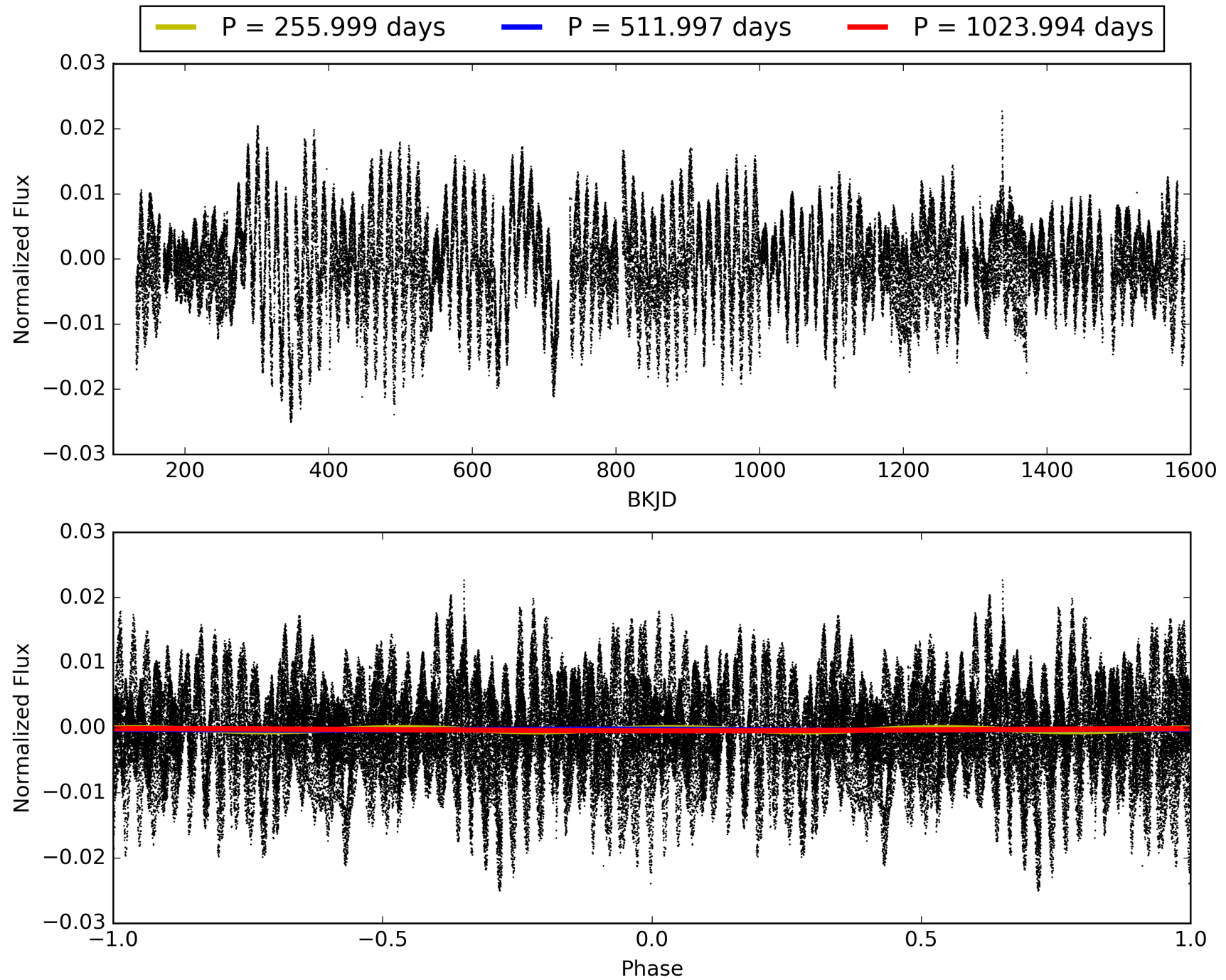
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:12:45 Z

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

TCE 006050127-04, PDC Light Curves

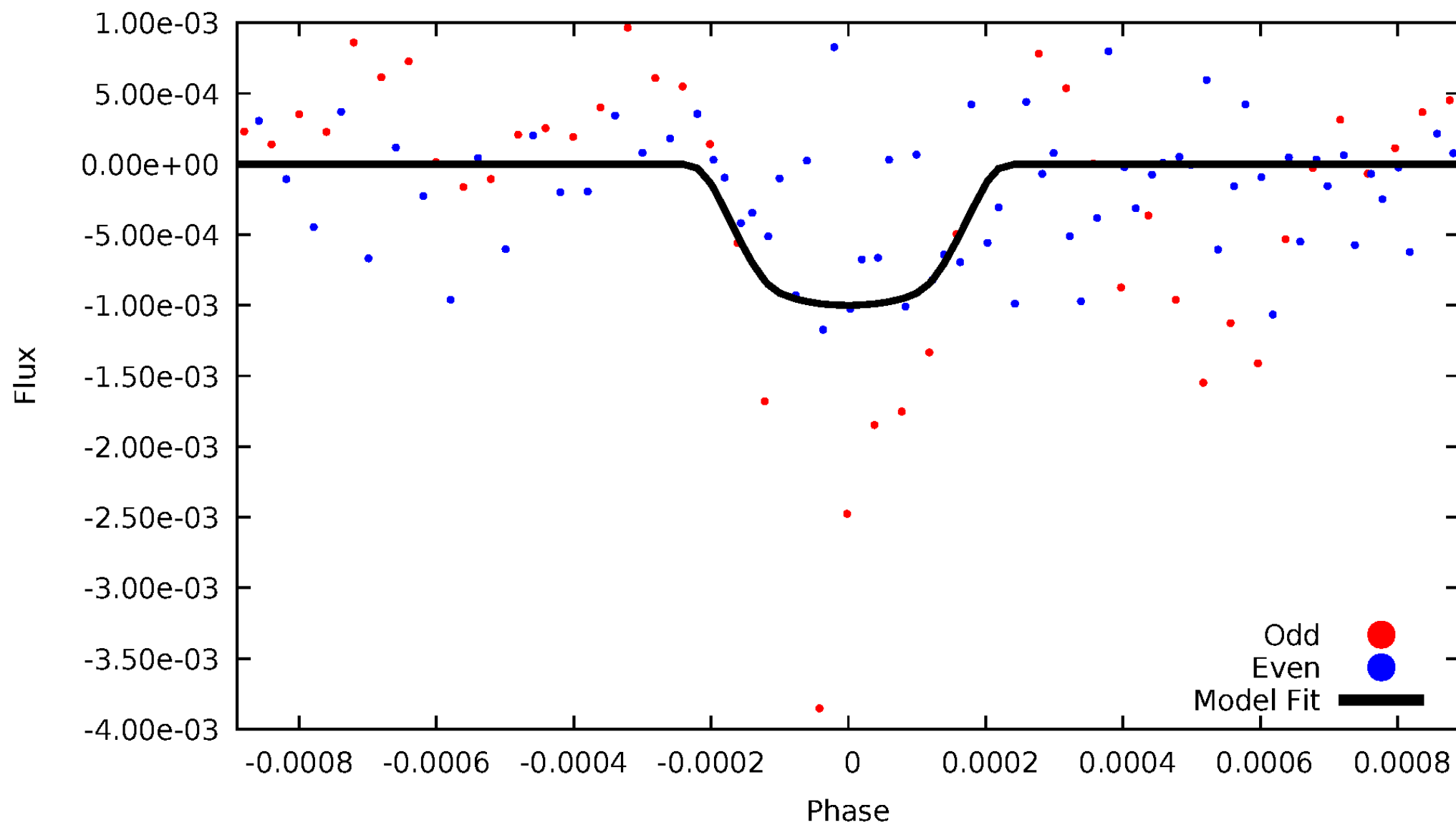


TCE 006050127-04



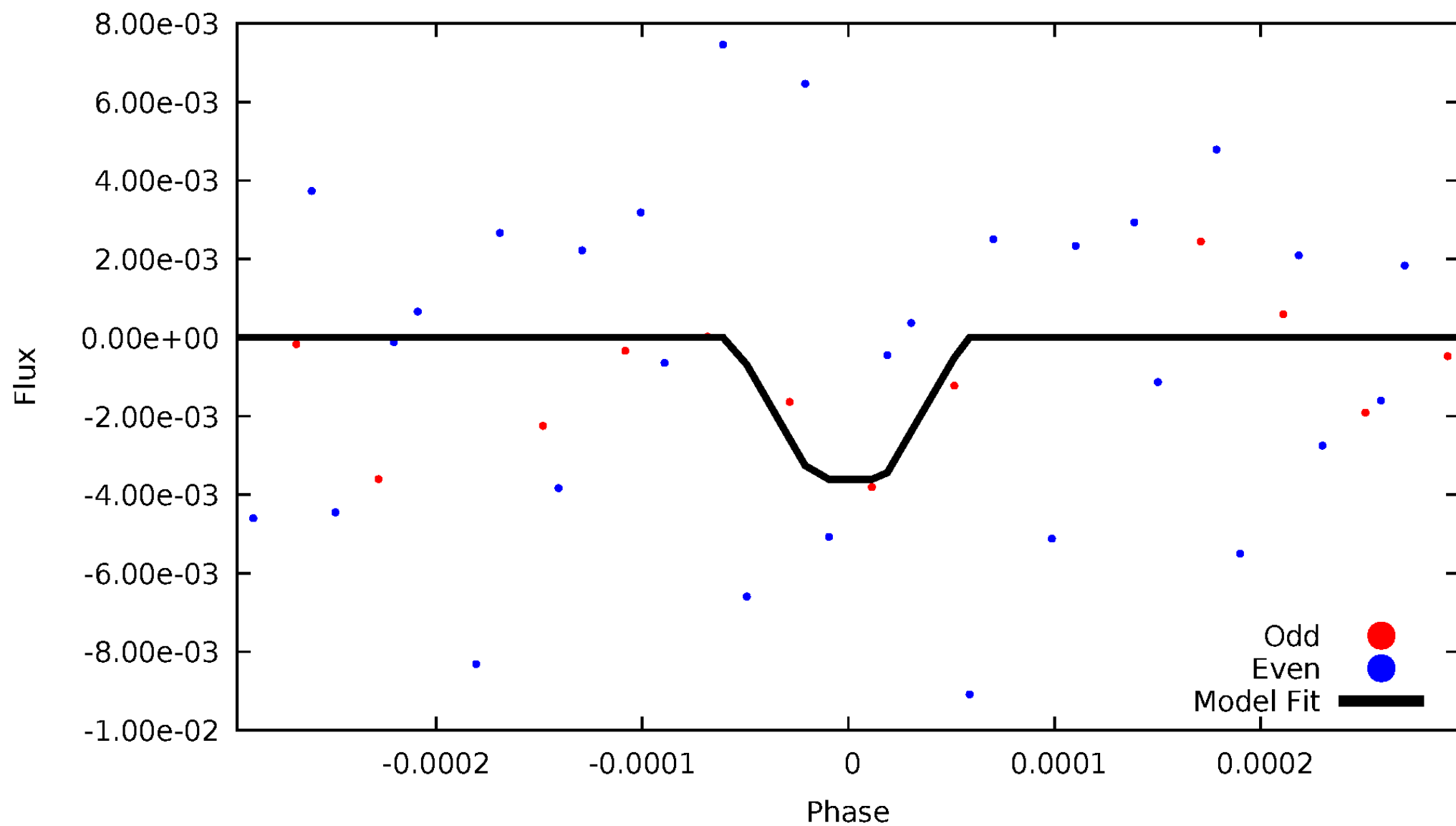
DV Odd/Even

TCE 006050127-04



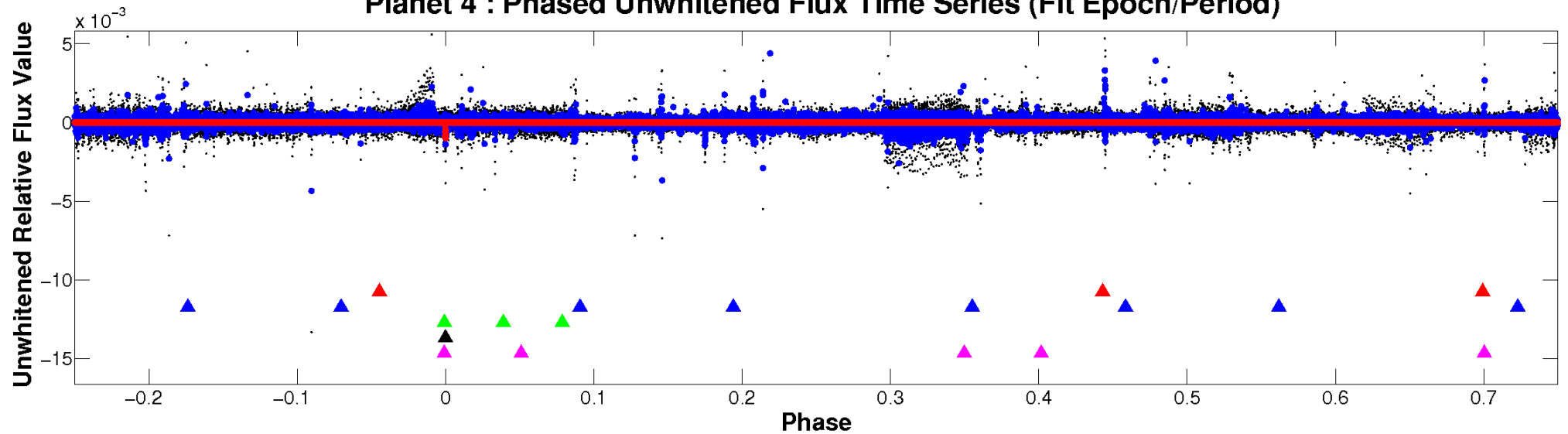
ALT Odd/Even

TCE 006050127-04

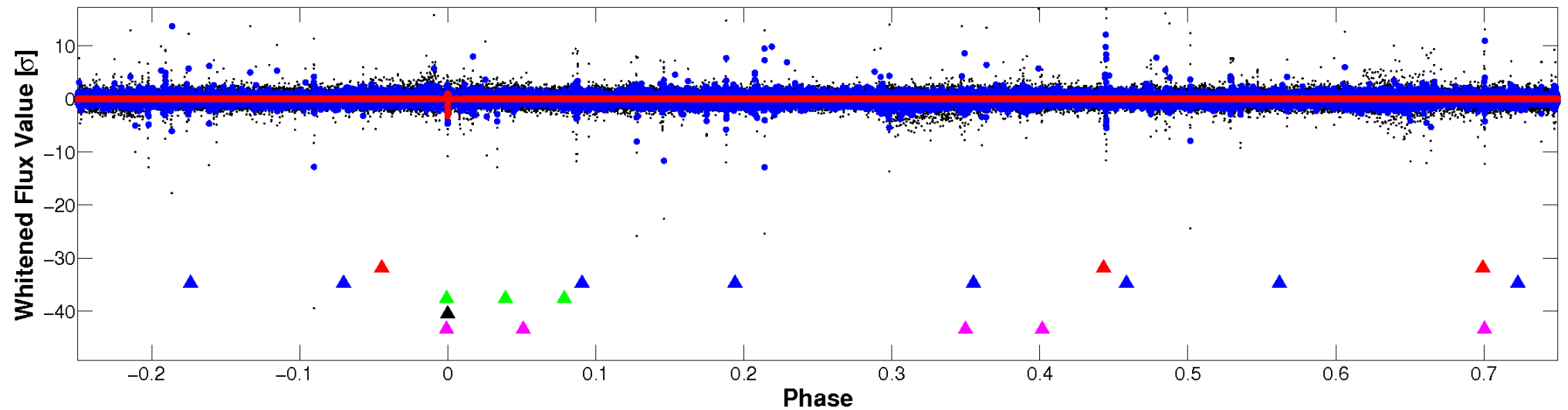


Non-Whitened Vs. Whitened Light Curve

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

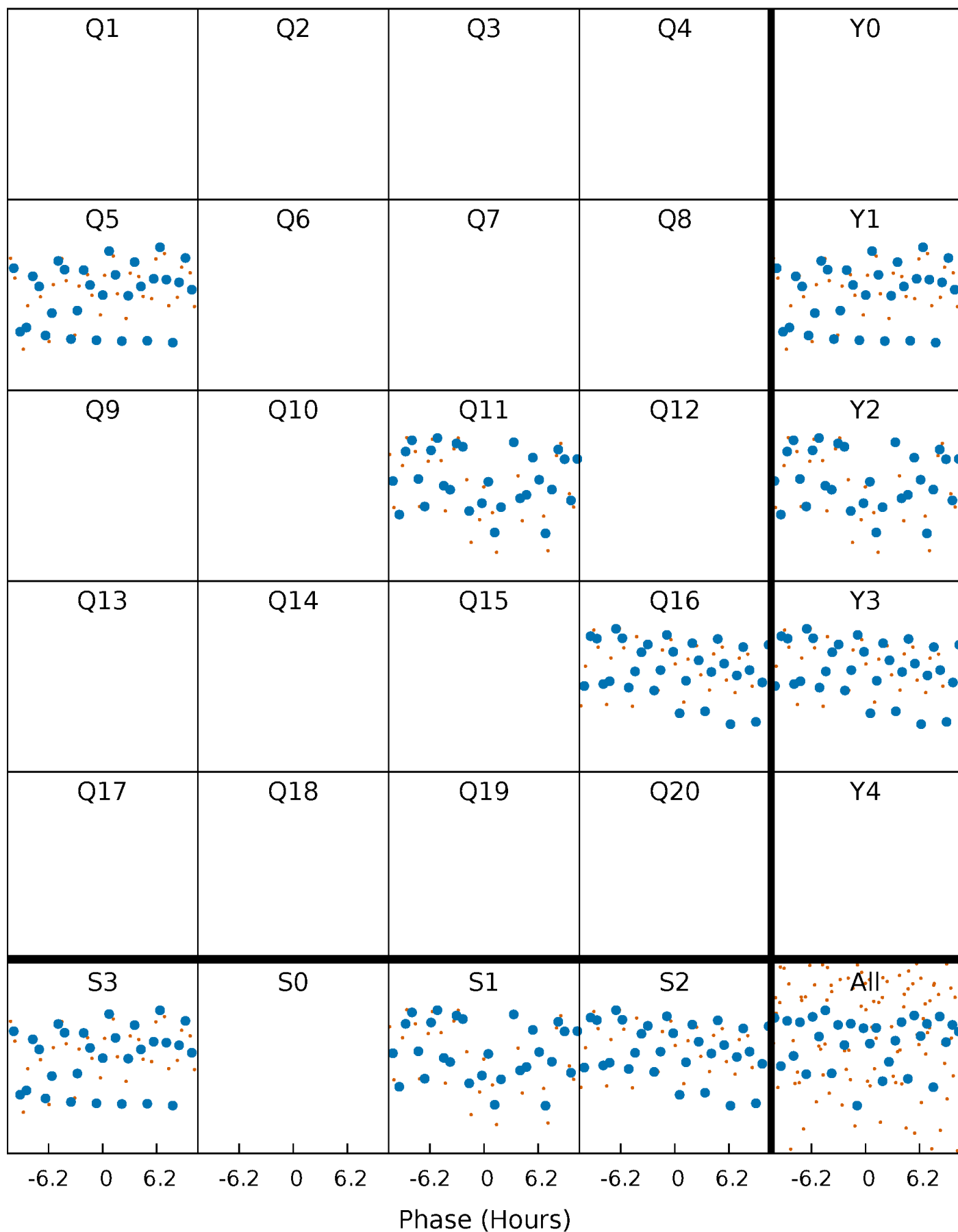


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



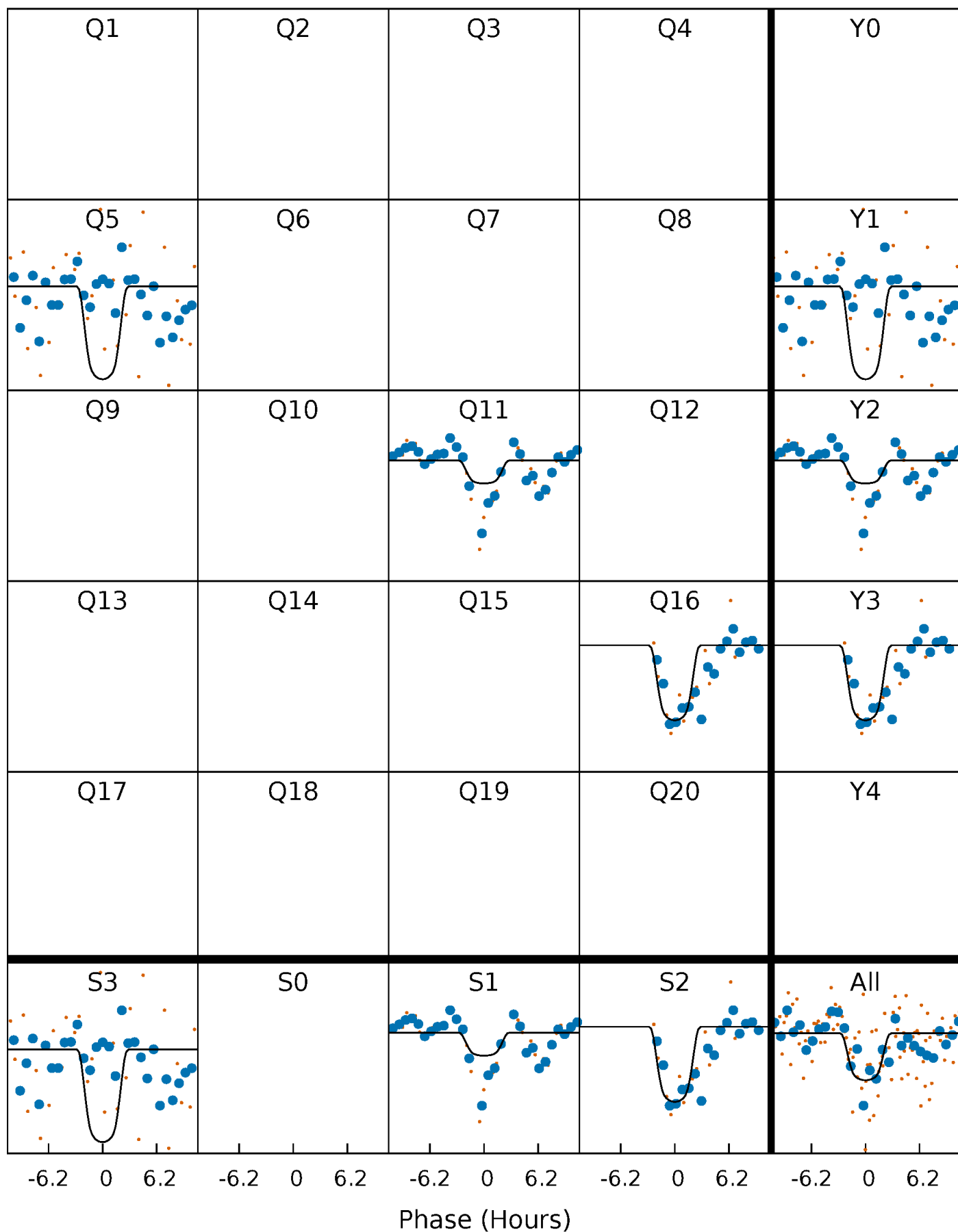
PDC Quarter-Phased Transit Curves

TCE 006050127-04 P=511.997234 Days $T_0=492.195713$ (BKJD)



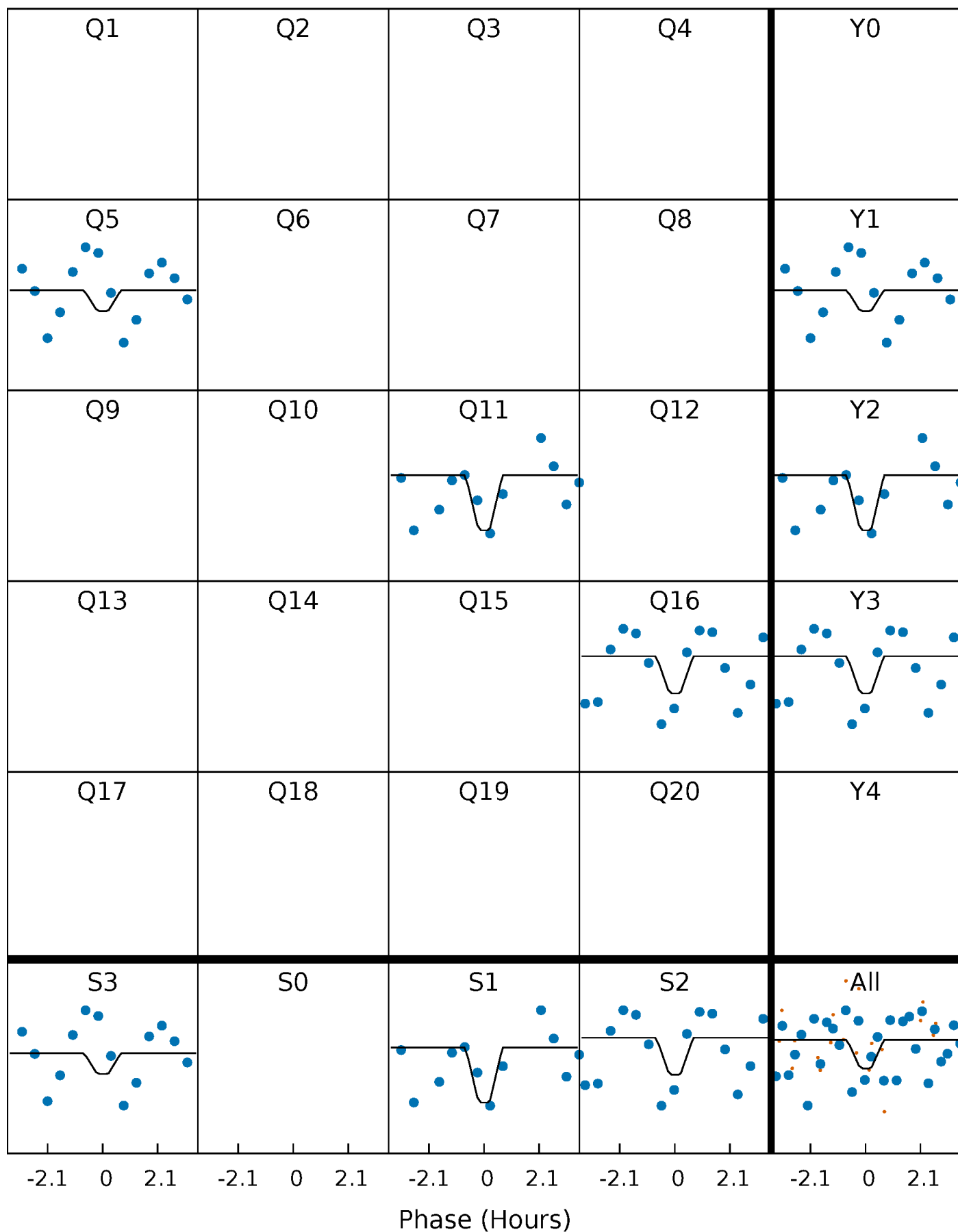
DV Quarter-Phased Transit Curves

TCE 006050127-04 $P=511.997234$ Days $T_0=492.195713$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

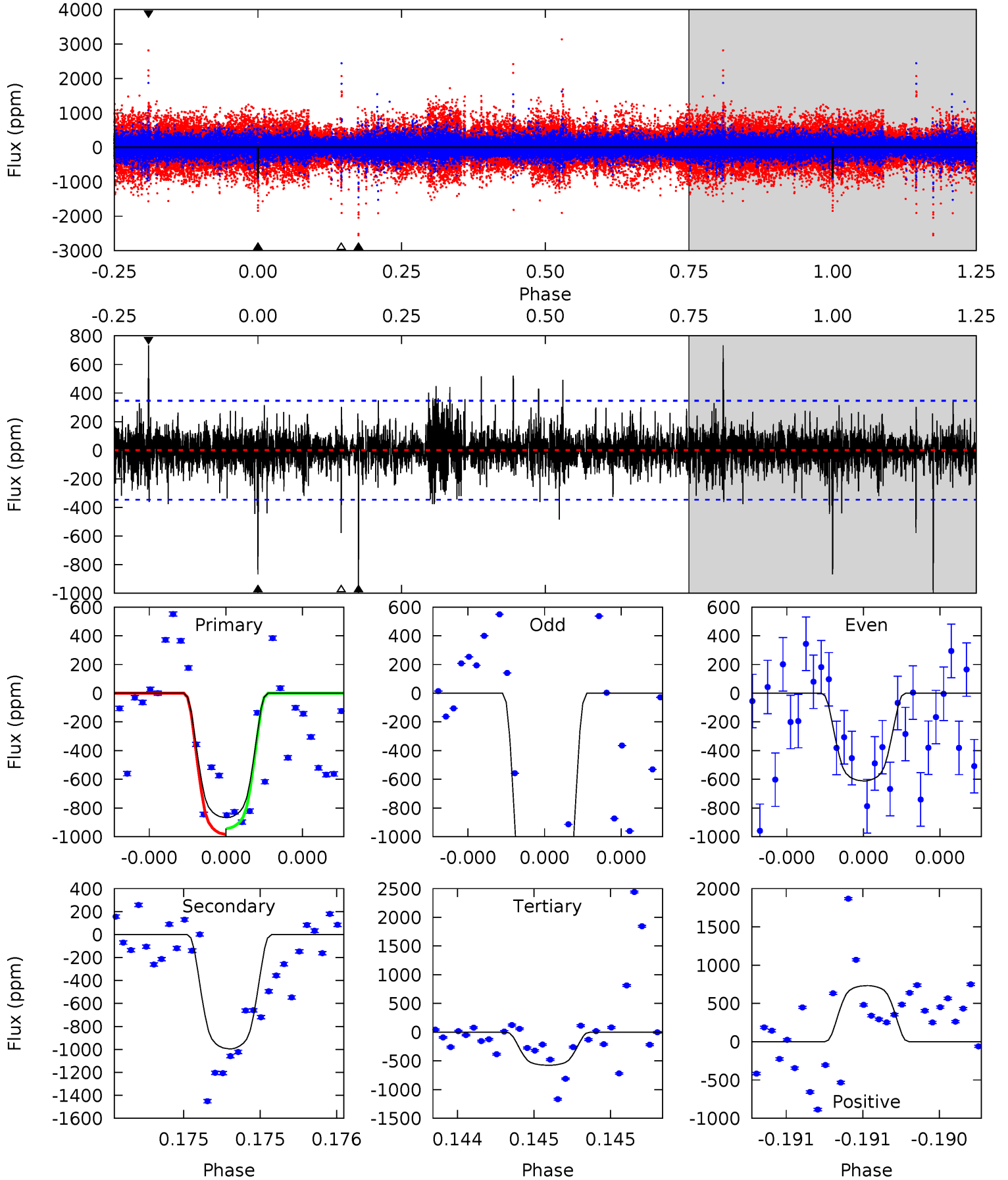
TCE 006050127-04 P=511.990091 Days $T_0=492.257296$ (BKJD)



DV Model-Shift Uniqueness Test

006050127-04, P = 511.997234 Days, E = 492.195713 Days

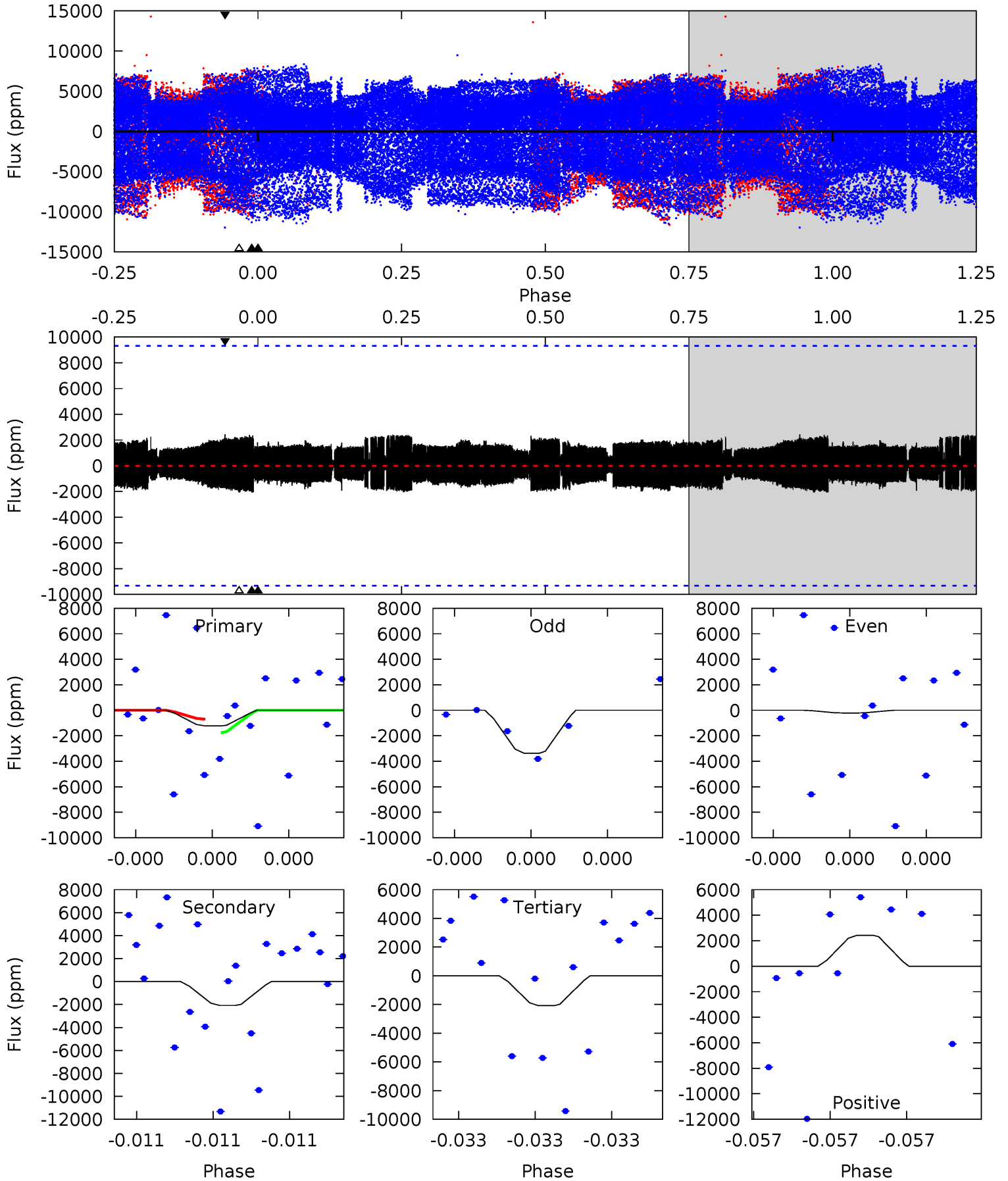
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.1	16.1	9.35	11.9	5.60	3.52	1.50	4.71	2.17	6.80	4.26	11.7	1.13	0.42	0.34



Alt Model-Shift Uniqueness Test

006050127-04, P = 511.990091 Days, E = 492.257296 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.77	1.31	1.30	1.52	5.85	3.89	0.54	-0.53	-0.75	0.00	-0.22	0.93	0.43	0.54	0.33



Stellar Parameters For KIC 006050127

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5691^{+76}_{-85}	$4.544^{+0.016}_{-0.088}$	$0.070^{+0.150}_{-0.150}$	$0.887^{+0.095}_{-0.038}$	$1.003^{+0.042}_{-0.072}$	$2.025^{+0.153}_{-0.512}$
	+1%/-1%	+0%/-2%	+214%/-214%	+11%/-4%	+4%/-7%	+8%/-25%
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 006050127-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-996 ± 62	$3.63^{+0.50}_{-0.52}$	298^{+9}_{-6}	5306^{+379}_{-296}	65075^{+22645}_{-15857}
Alt.	-2082 ± 1595	$5.94^{+0.53}_{-0.56}$	298^{+8}_{-5}	5017^{+696}_{-1177}	48760^{+40289}_{-36955}

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

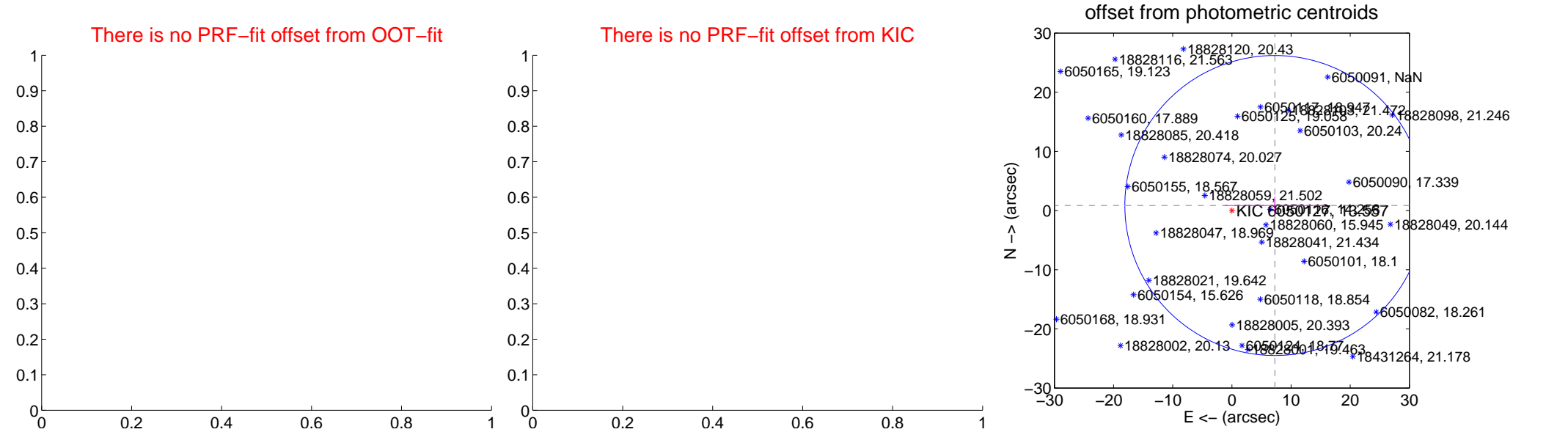
DV Centroid Data

Supplemental centroid analysis for 006050127-04. Kepler magnitude: 13.56. Transit SNR 12.95

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	7.31 ± 8.45	0.86	-7.26 ± 8.51	0.86 ± 1.52

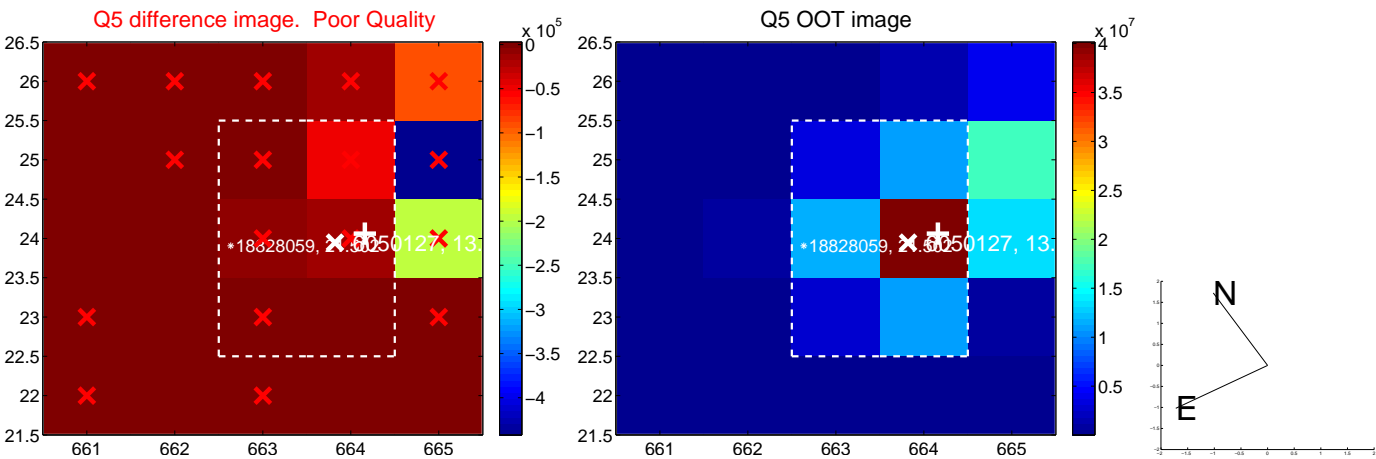


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



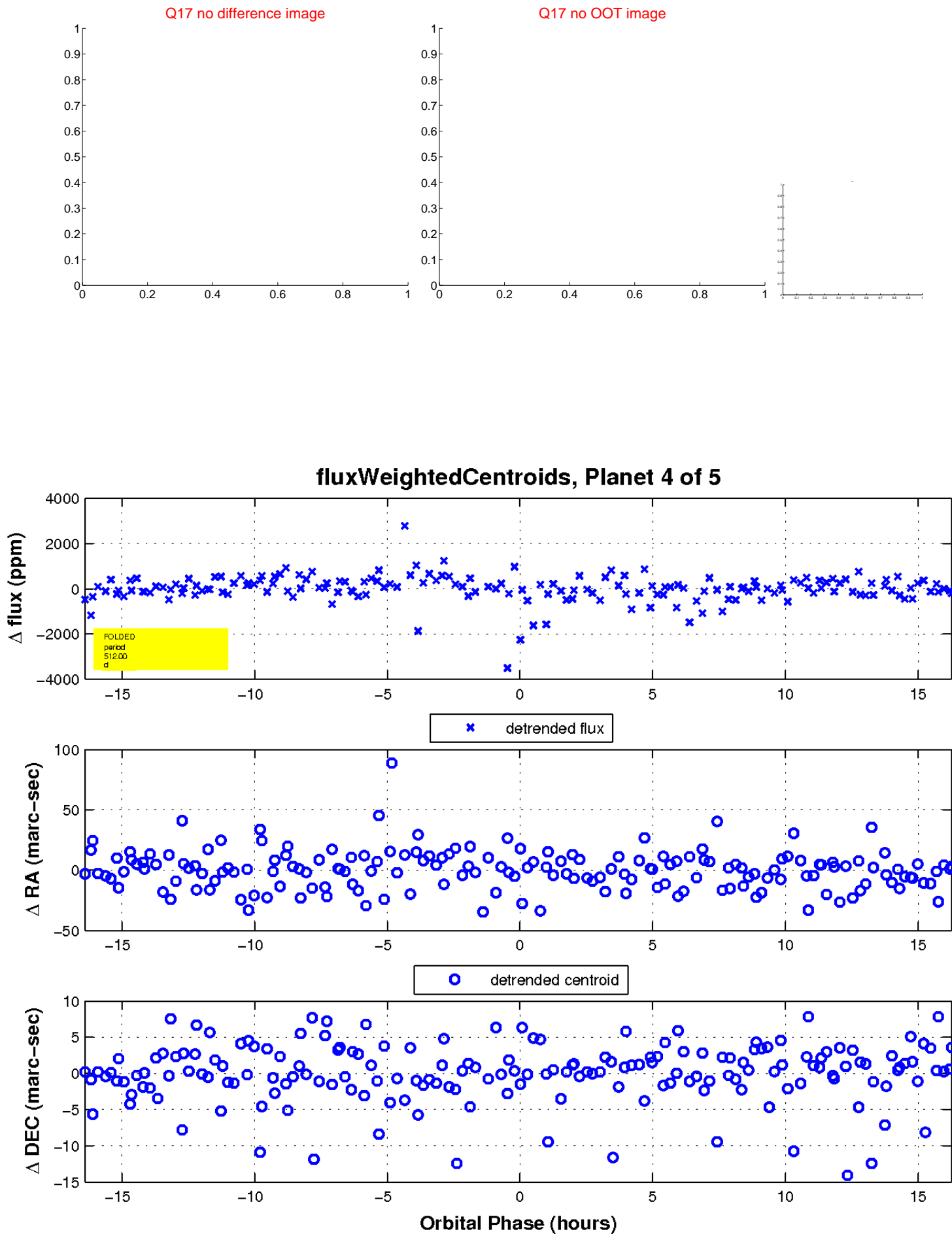
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

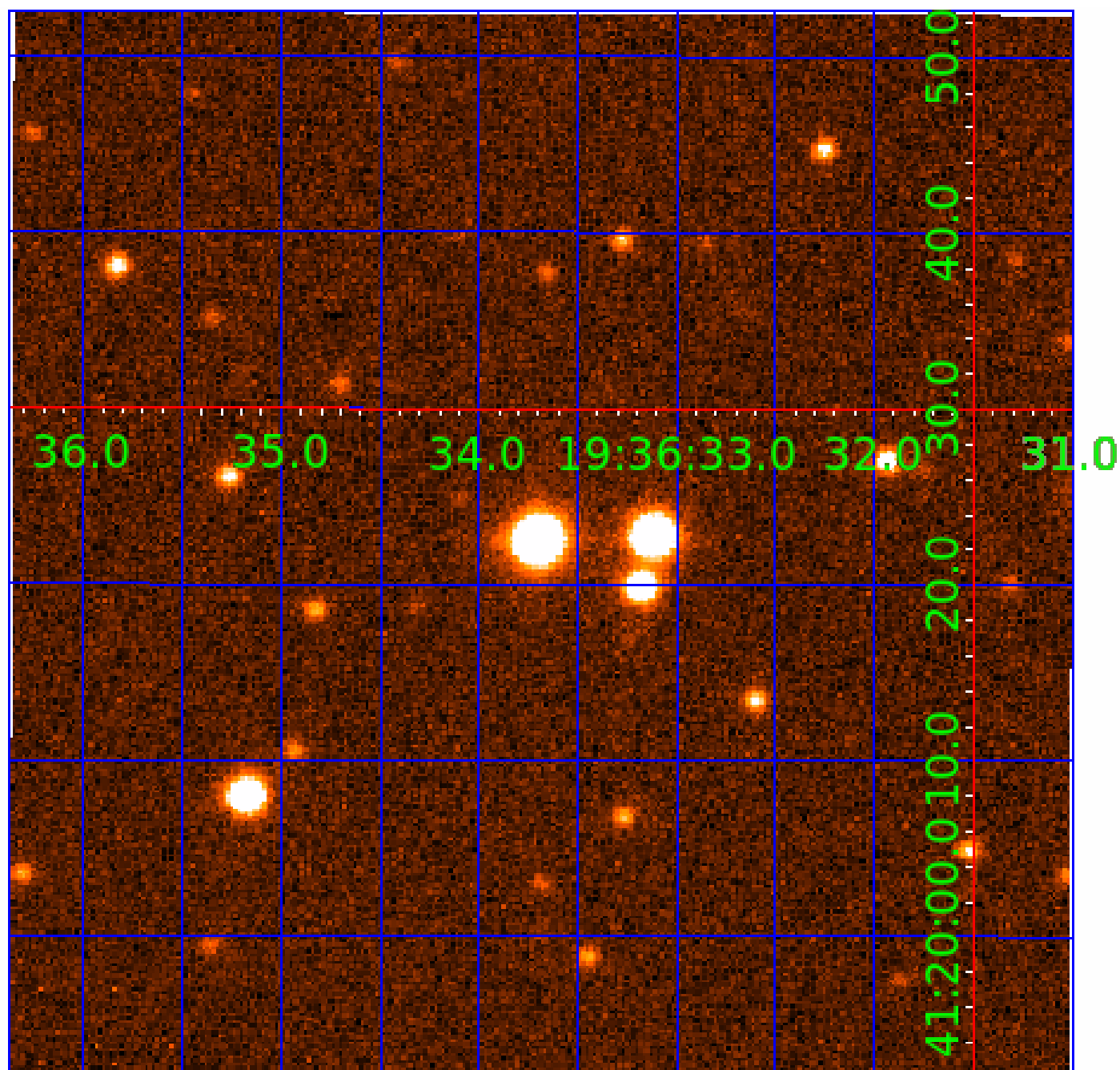


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006050127

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})
006050127-01	OBS	No	380.820916	469.409862	46.4	3.116	14.2	0.6	0.89	5691	0.69	0.70
006050127-02	OBS	No	188.301672	162.056302	589.9	19.015	17.4	6.0	0.89	5691	2.19	1.78
006050127-03	OBS	No	491.663440	532.503263	820.5	3.821	12.2	11.0	0.89	5691	2.79	0.50
006050127-04	OBS	No	511.997234	492.195713	1000.0	5.468	19.3	13.0	0.89	5691	3.53	0.47
006050127-05	OBS	No	332.478802	185.847361	293.4	1.102	14.1	2.1	0.89	5691	1.62	0.83

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006050127-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-02	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006050127-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_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

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

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

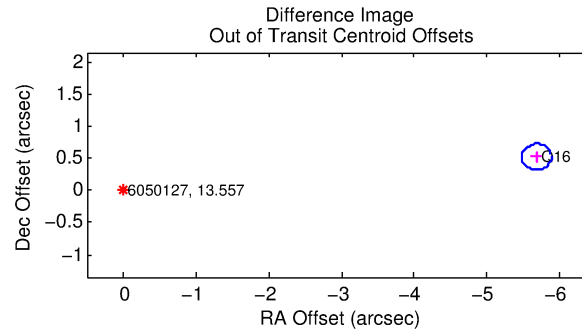
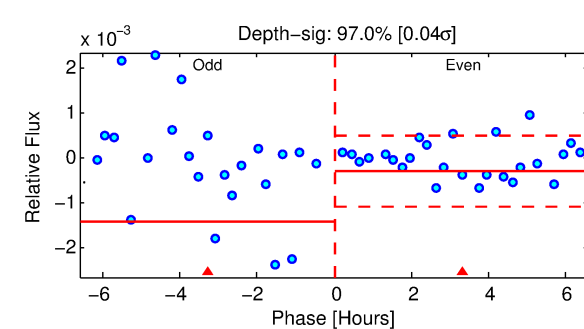
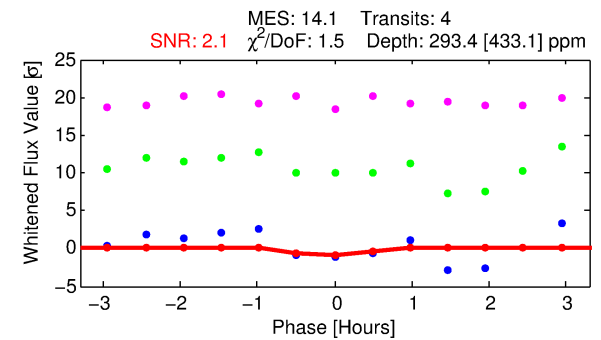
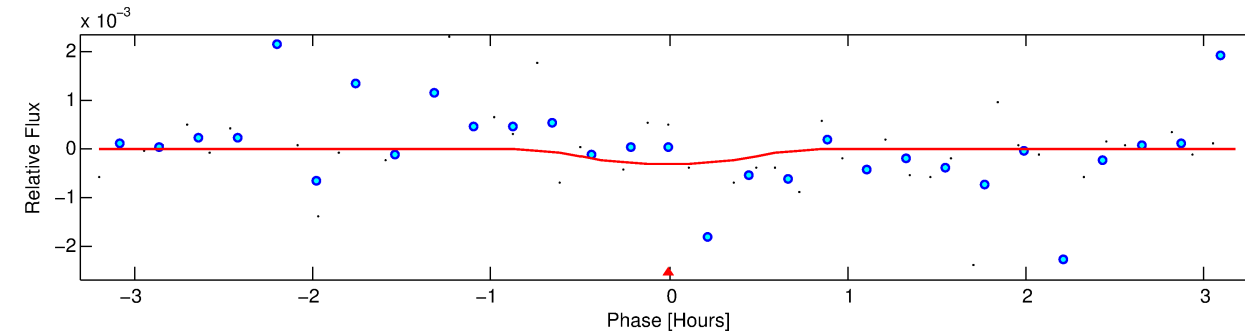
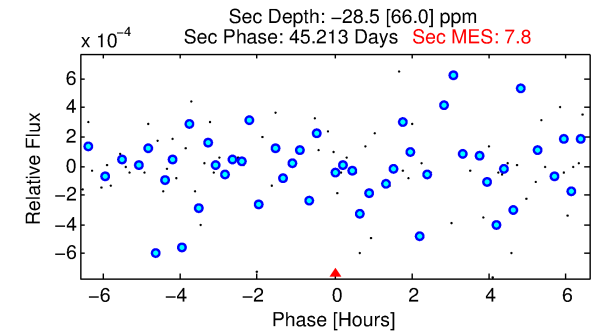
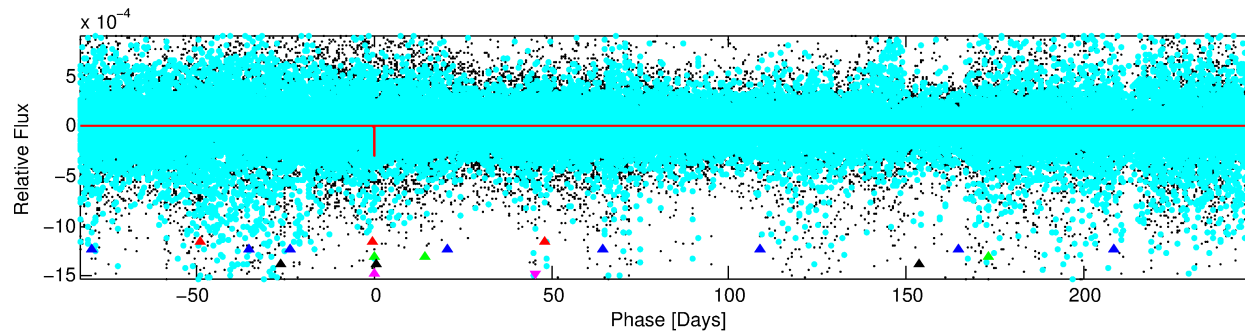
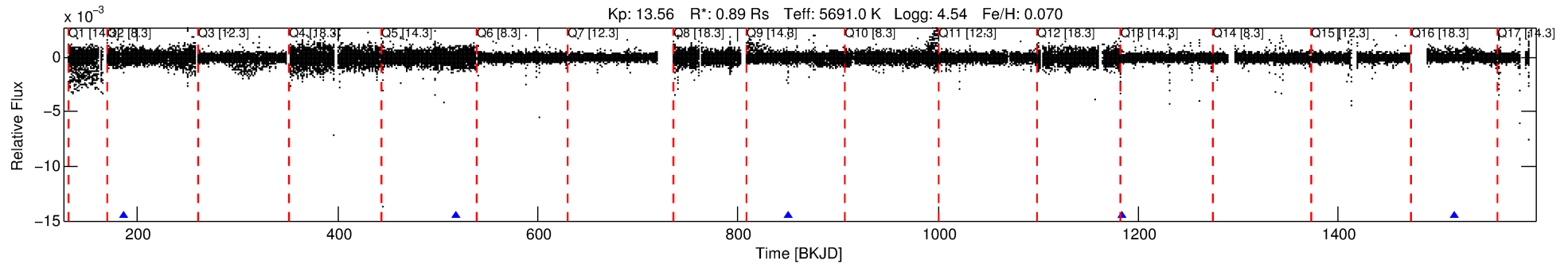
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006050127-05

No Significant Match Found

DV One-Page Summary

KIC: 6050127 Candidate: 5 of 5 Period: 332.479 d



DV Fit Results:

Period = 332.47880 [0.02729] d
Epoch = 185.8474 [0.0466] BKJD
Rp/R* = 0.0167 [0.1853]
a/R* = 1760.60 [82514.22]
b = 0.67 [39.11]
Seff = 0.84 [0.14]
Teq = 244 [10] K
Rp = 1.62 [17.94] Re
a = 0.9408 [0.0925] AU
Ag = N/A
Teffp = N/A

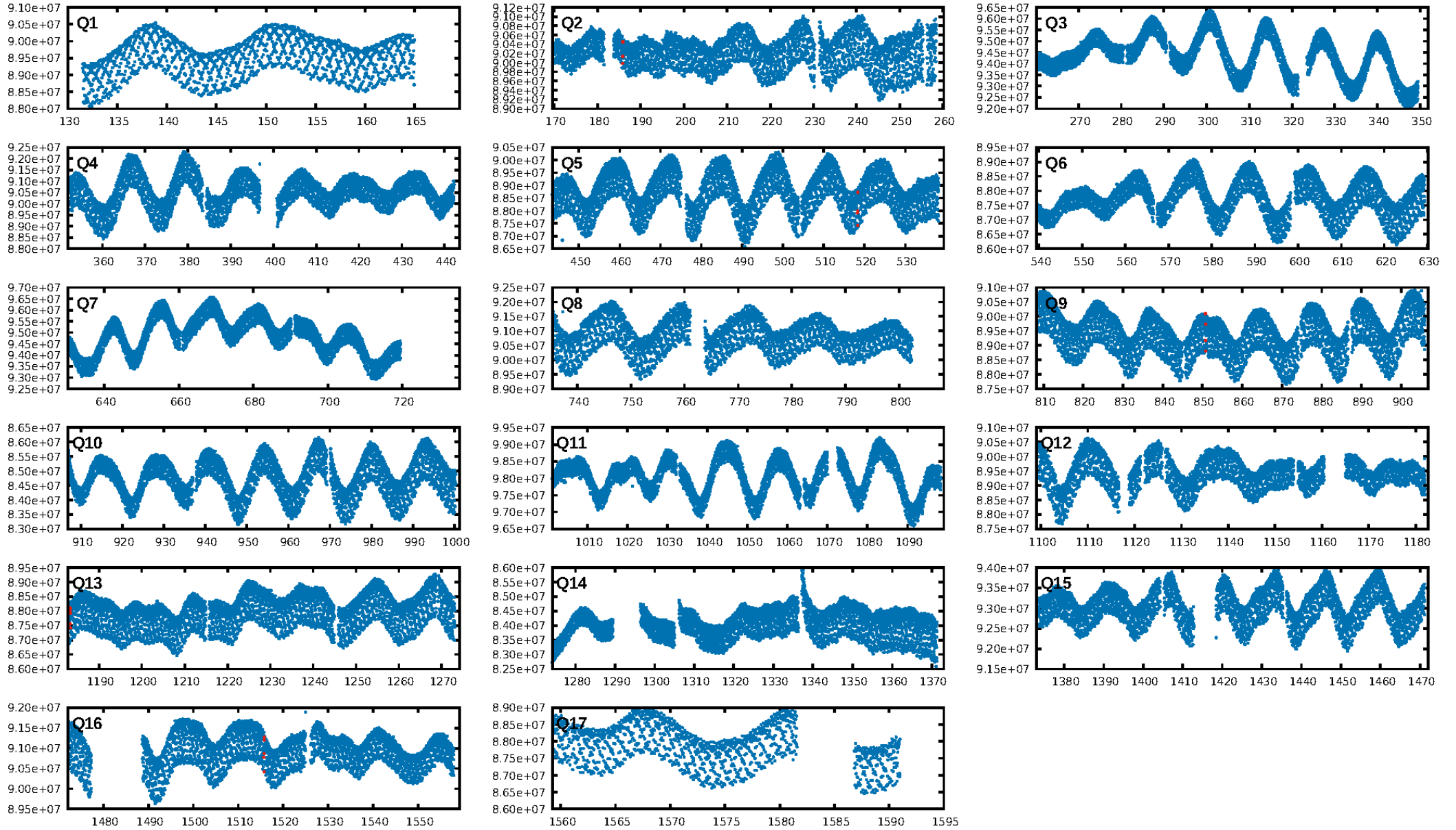
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [181.67σ]
LongPeriod-sig: 100.0% [351.02σ]
ModelChiSquare2-sig: 5.8%
ModelChiSquareGof-sig: 63.0%
Bootstrap-pfa: 8.02e-10
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -0.5545
Centroid-sig: N/A
Centroid-so: 3.289 arcsec [0.12σ]
OotOffset-rm: 5.707 arcsec [84.45σ]
KicOffset-rm: 6.508 arcsec [96.30σ]
OotOffset-st: 0/0/1/0 [1]
KicOffset-st: 0/0/1/0 [1]
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 0.75 [3/4]

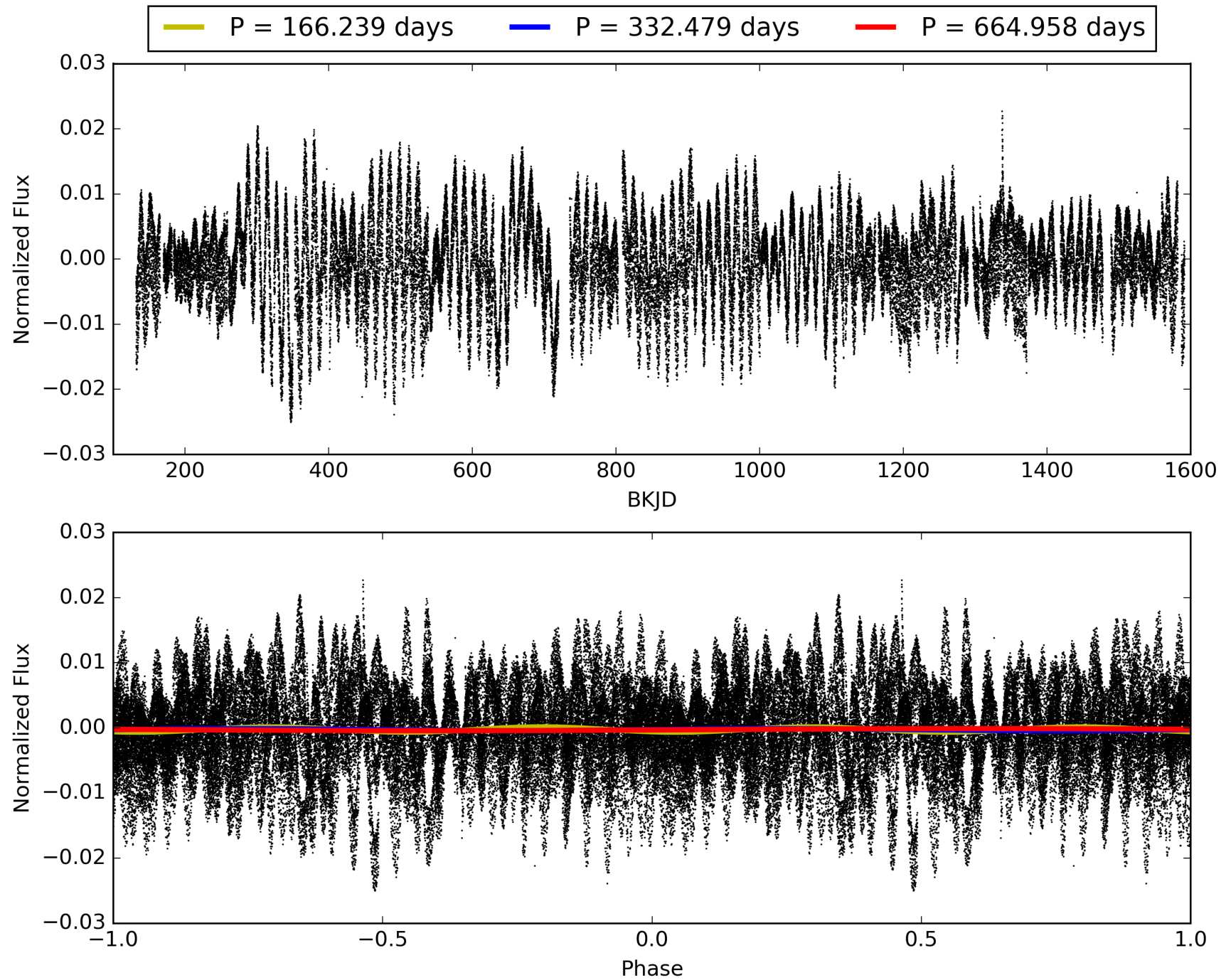
Software Revision: svn-ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 07:13:20 Z

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

TCE 006050127-05, PDC Light Curves

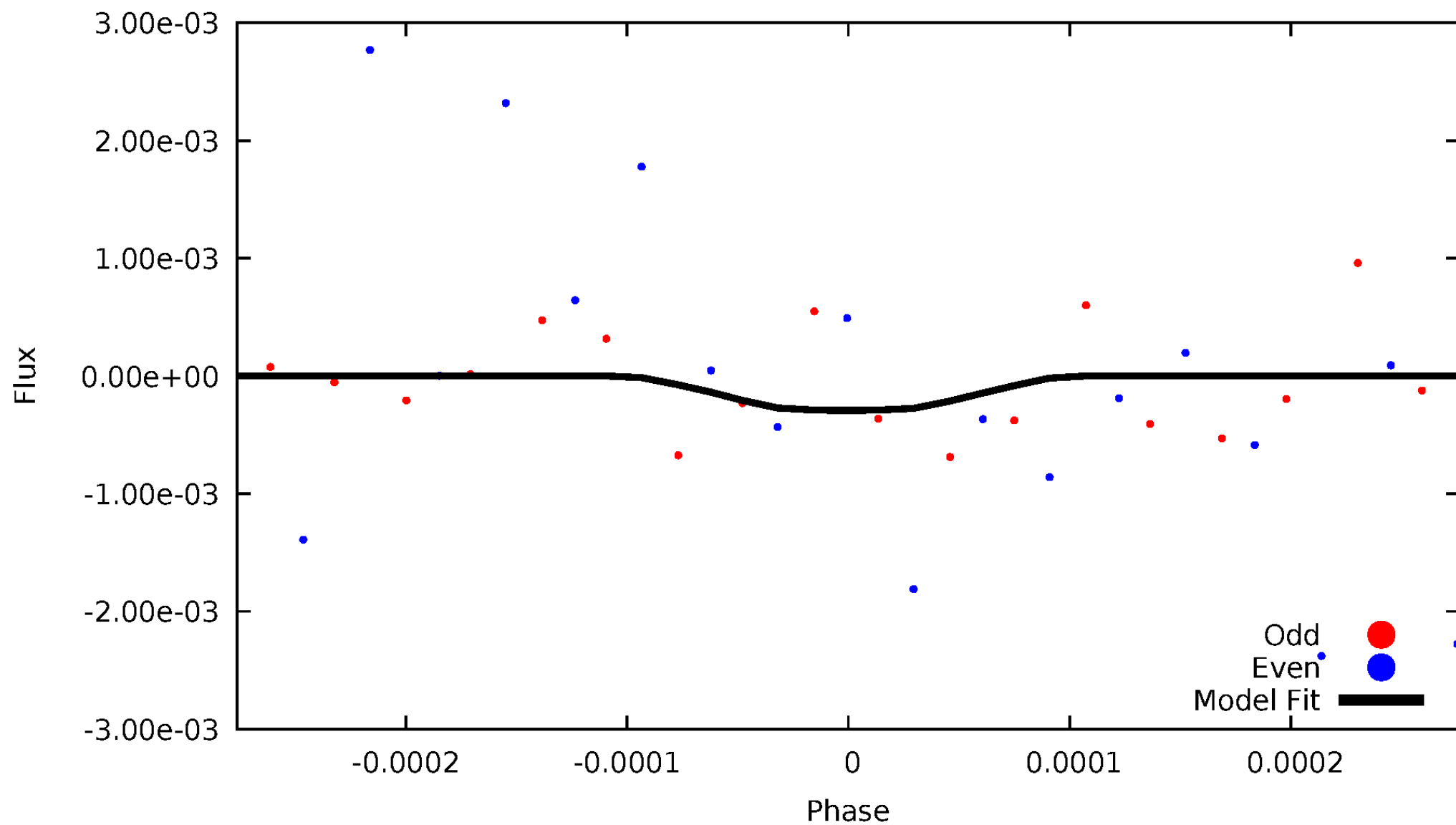


TCE 006050127-05



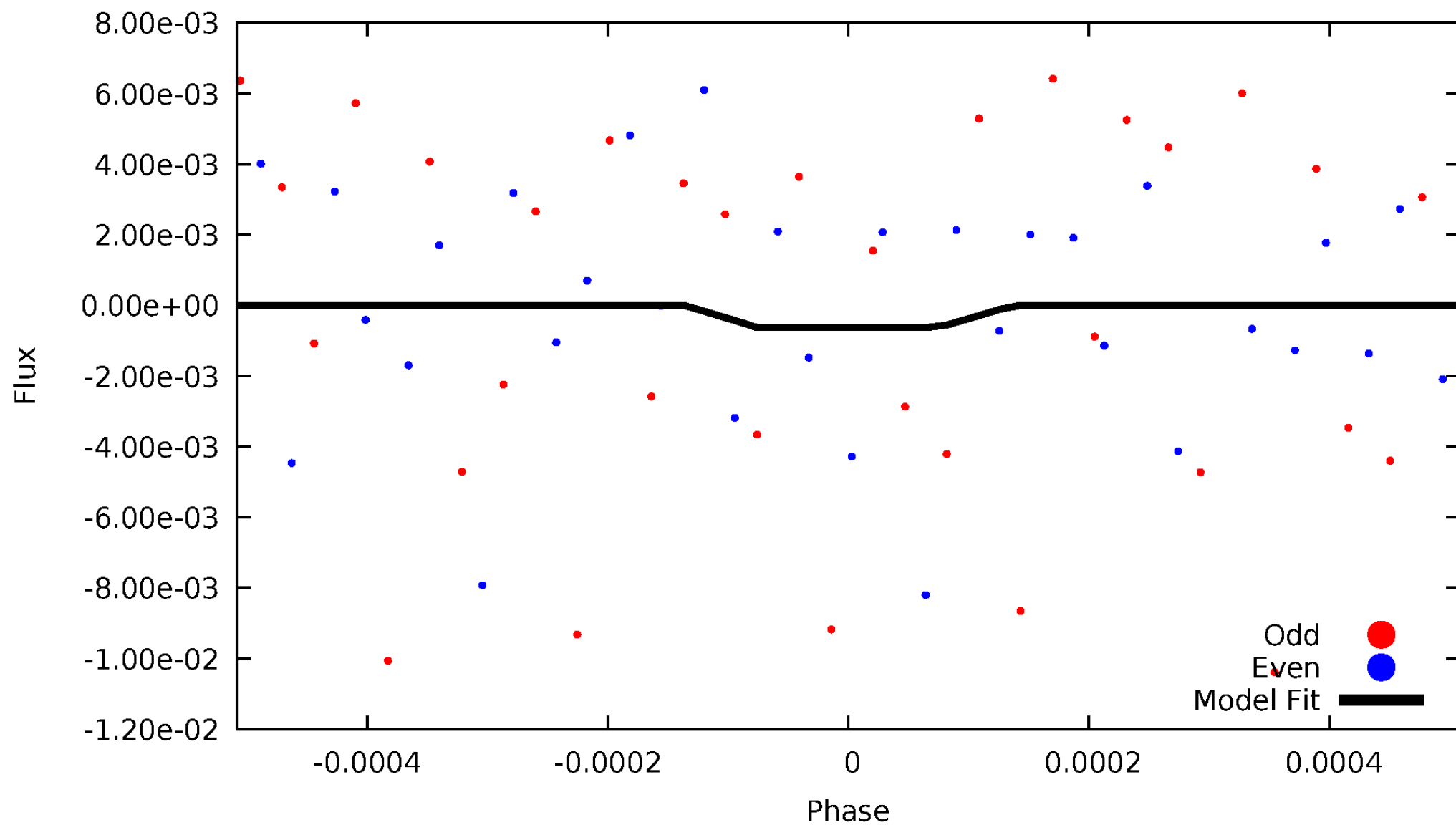
DV Odd/Even

TCE 006050127-05

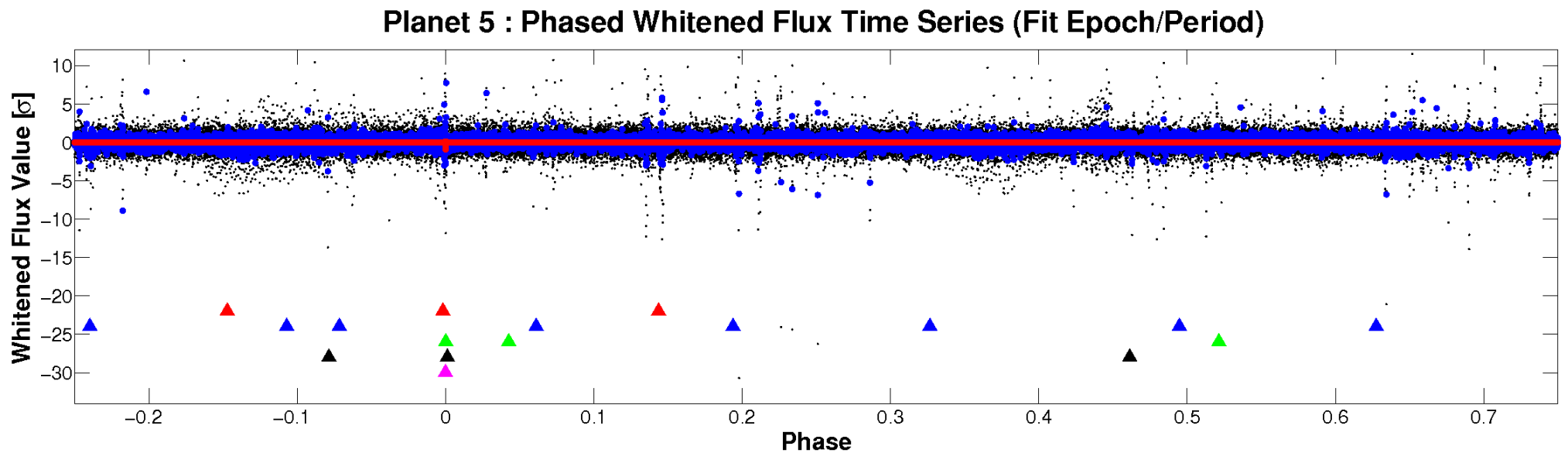
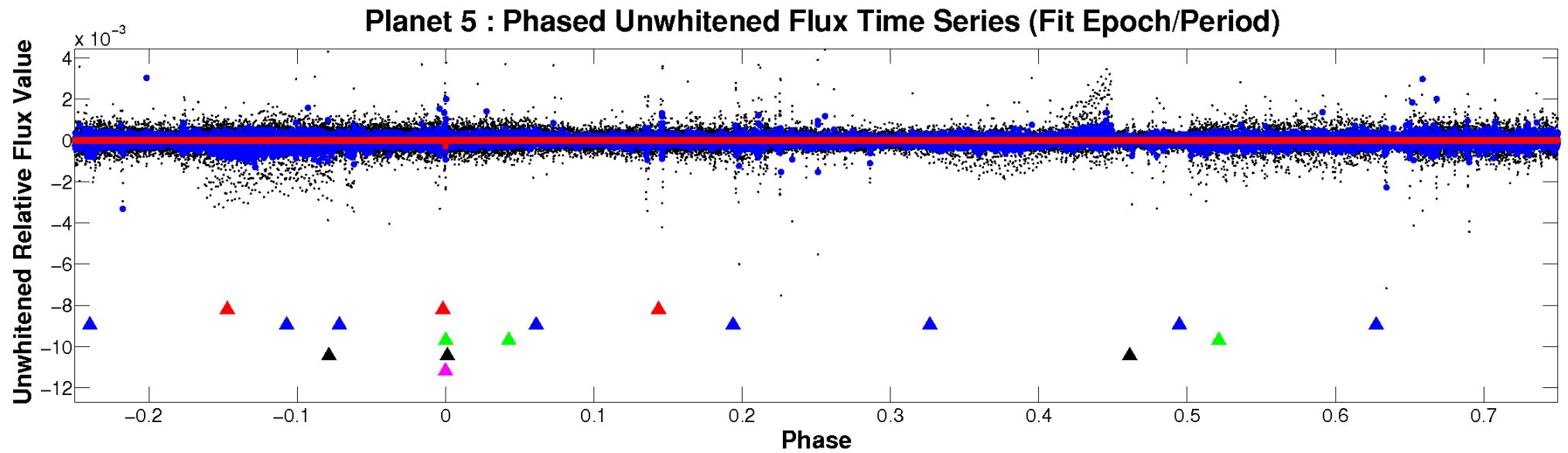


ALT Odd/Even

TCE 006050127-05

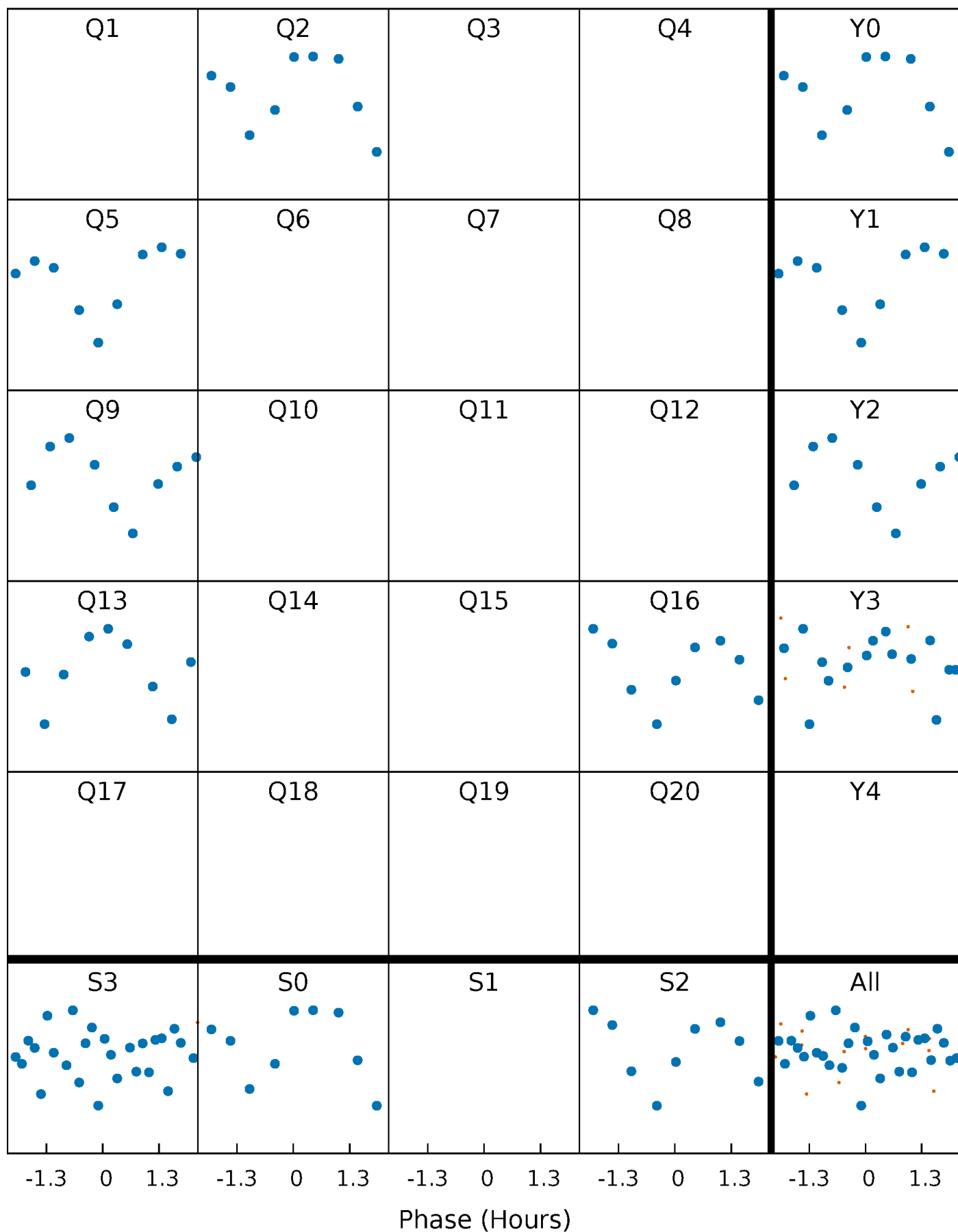


Non-Whitened Vs. Whitened Light Curve



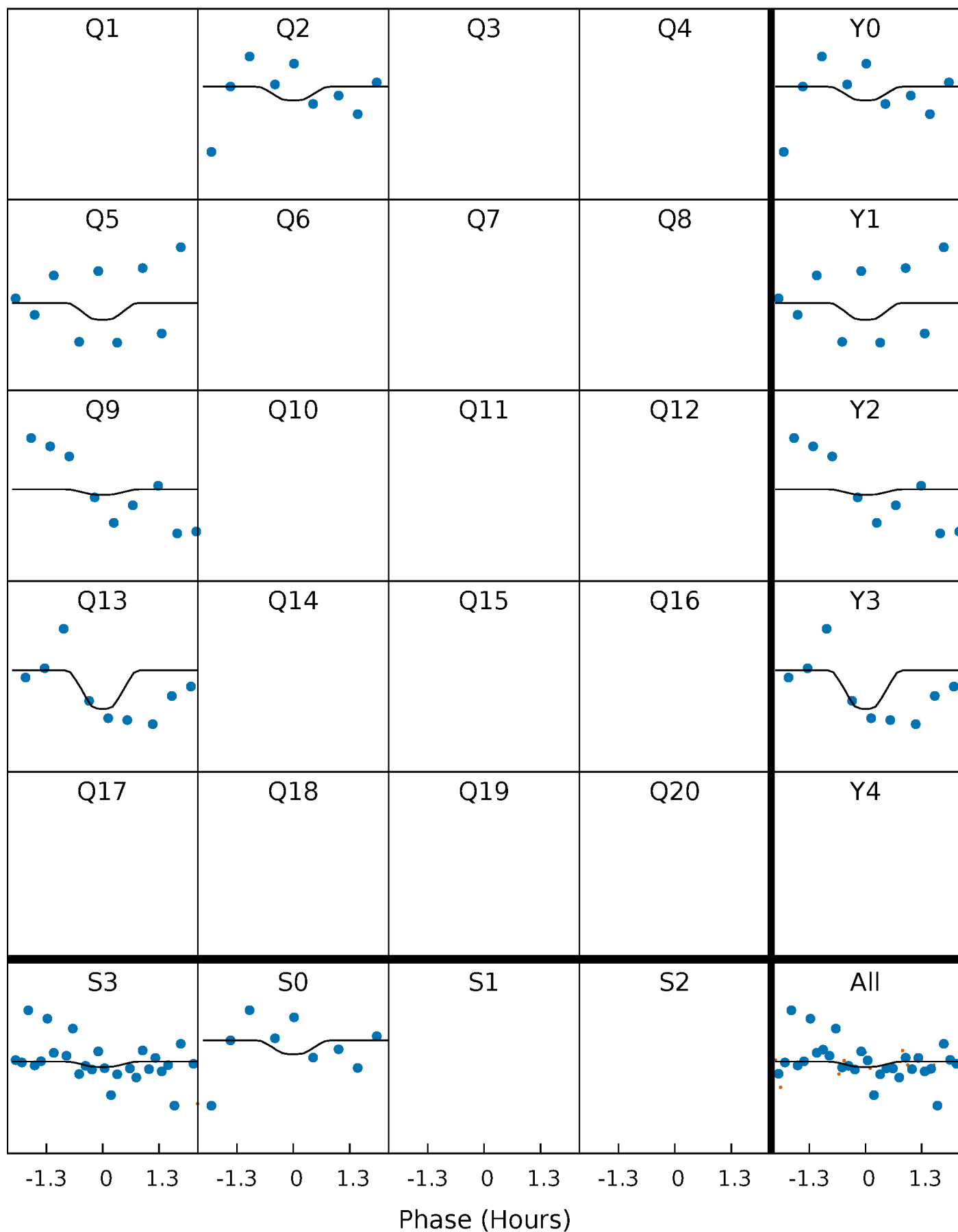
PDC Quarter-Phased Transit Curves

TCE 006050127-05 $P=332.478802$ Days $T_0=185.847361$ (BKJD)



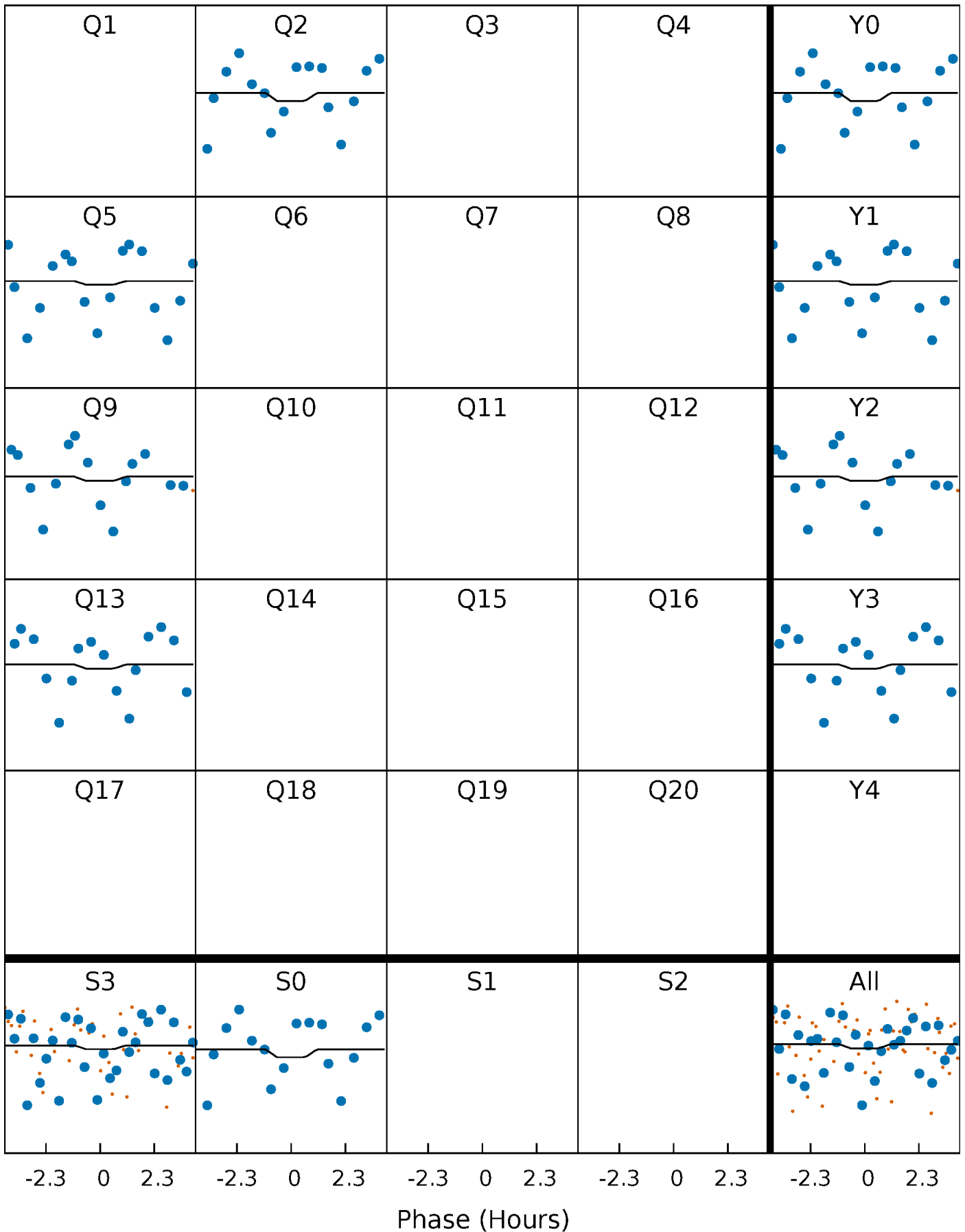
DV Quarter-Phased Transit Curves

TCE 006050127-05 P=332.478802 Days $T_0=185.847361$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

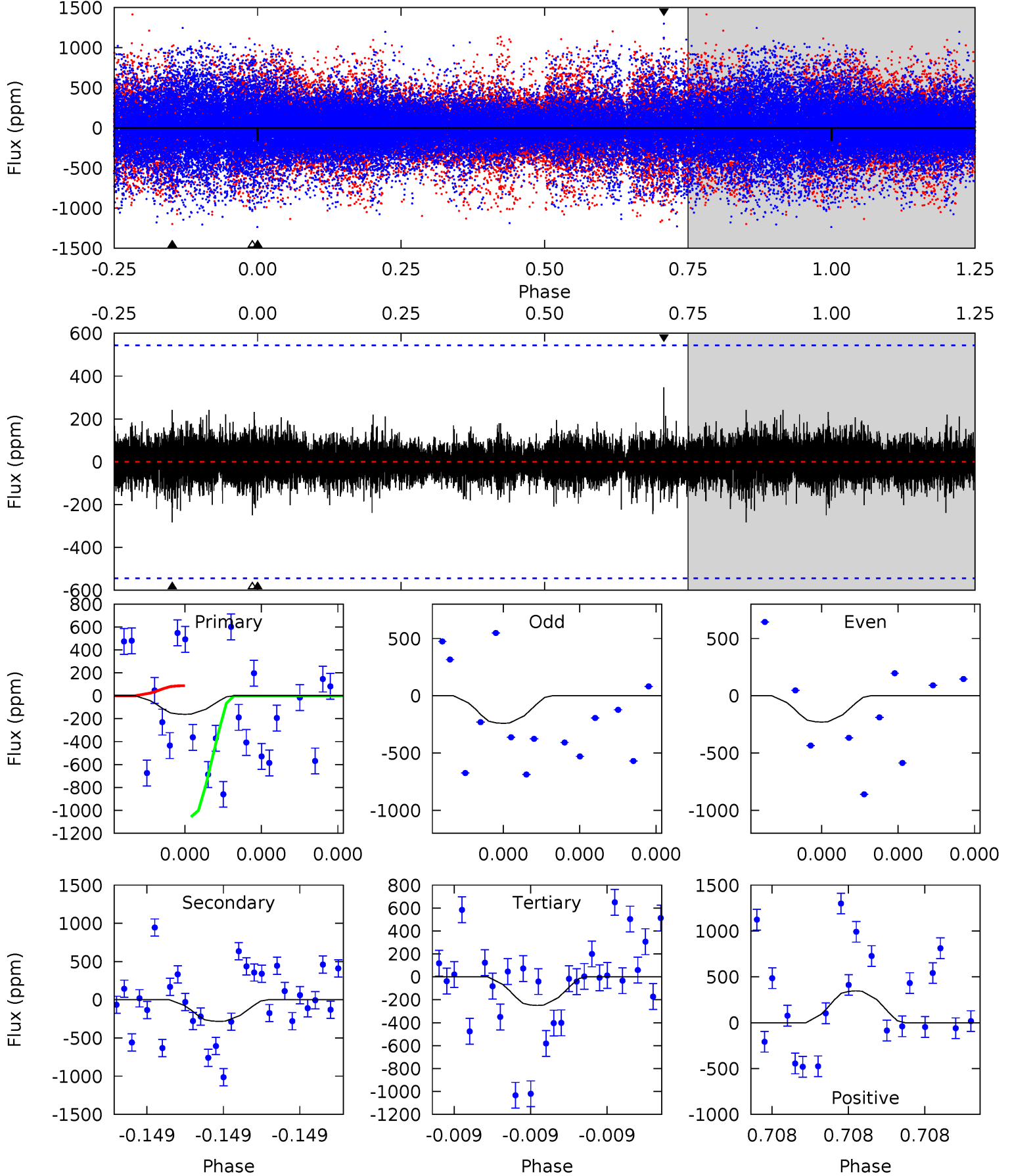
TCE 006050127-05 $P=332.488077$ Days $T_0=185.837680$ (BKJD)



DV Model-Shift Uniqueness Test

006050127-05, P = 332.478802 Days, E = 185.847361 Days

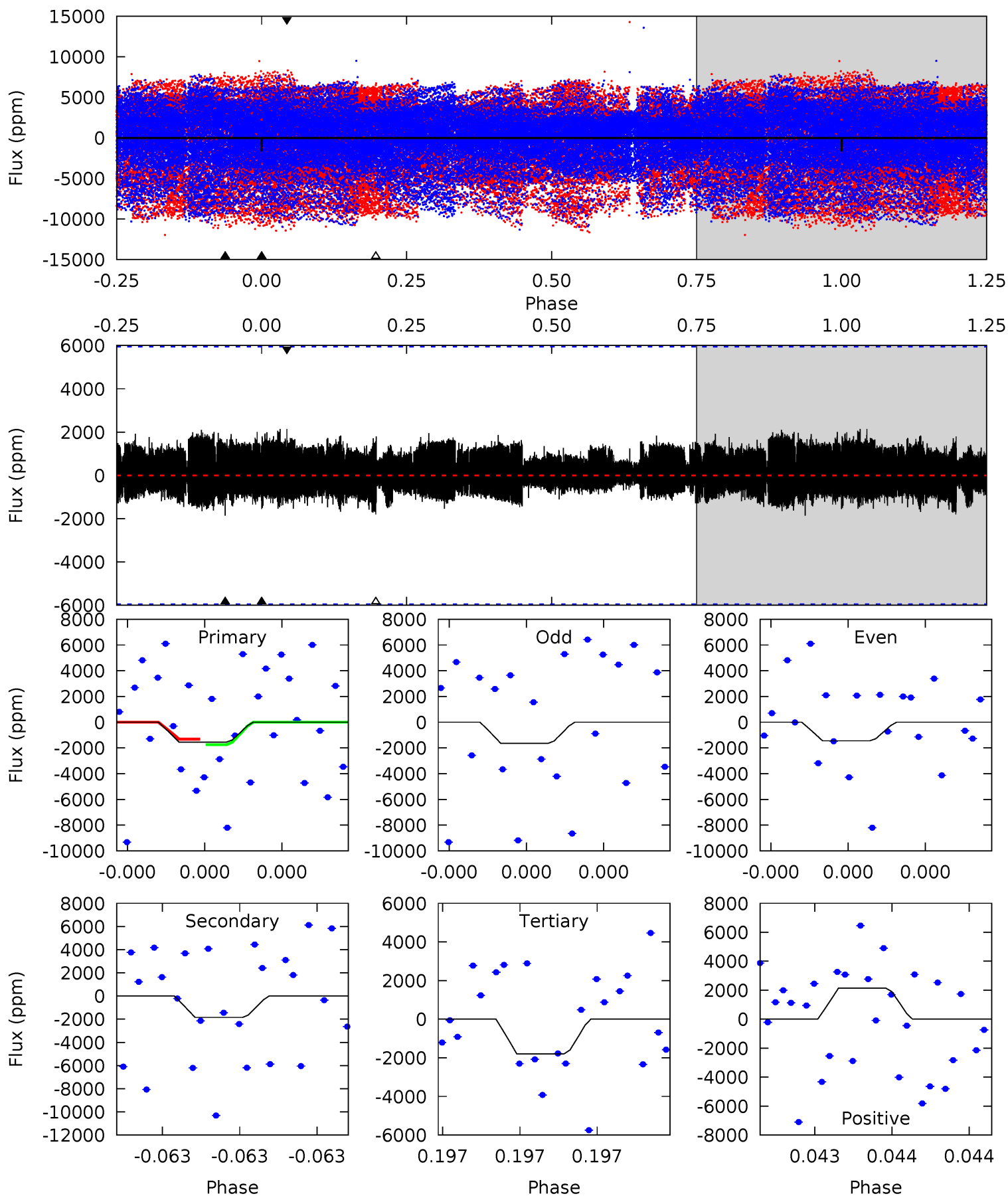
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.71	2.99	2.64	3.68	5.76	3.76	0.57	-0.93	-1.96	0.35	-0.68	0.05	1.48	0.55	5.30



Alt Model-Shift Uniqueness Test

006050127-05, P = 332.488077 Days, E = 185.837680 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.48	1.77	1.72	2.05	5.71	3.69	0.58	-0.24	-0.57	0.05	-0.28	0.10	1.06	0.54	0.20



Stellar Parameters For KIC 006050127

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (g \cdot \text{cm}^{-3})$
	5691^{+76}_{-85}	$4.544^{+0.016}_{-0.088}$	$0.070^{+0.150}_{-0.150}$	$0.887^{+0.095}_{-0.038}$	$1.003^{+0.042}_{-0.072}$	$2.025^{+0.153}_{-0.512}$
	+1%/-1%	+0%/-2%	+214%/-214%	+11%/-4%	+4%/-7%	+8%/-25%
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 006050127-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-283 ± 94	$12.50^{+13.57}_{-8.33}$	344^{+9}_{-7}	2797^{+1190}_{-490}	828^{+7431}_{-656}
Alt.	-1848 ± 1044	$13.04^{+13.42}_{-9.12}$	345^{+10}_{-8}	3593^{+2285}_{-813}	4521^{+51820}_{-3714}

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 $A_{obs} \gg 1.0$

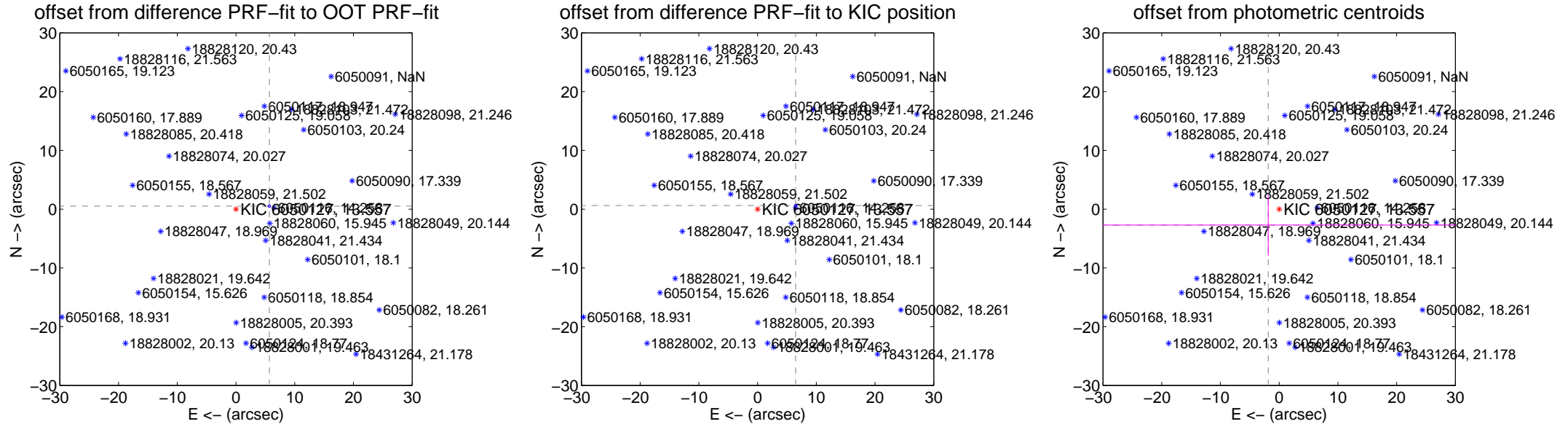
DV Centroid Data

Supplemental centroid analysis for 006050127-05. Kepler magnitude: 13.56. Transit SNR 2.07

There are 1 quarters with good PRF difference image offsets

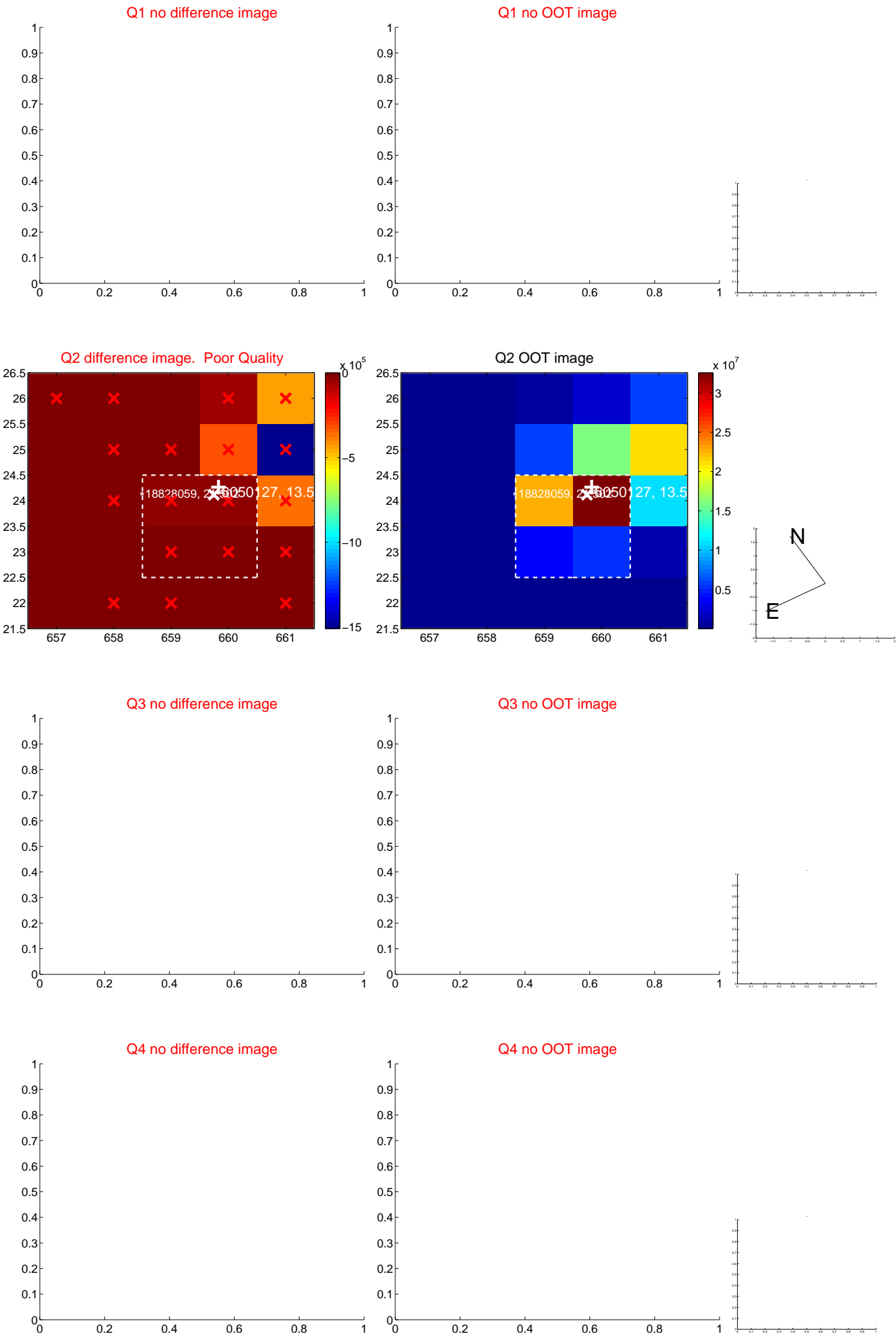
The direct PRF centroid is offset from the target star catalog position by about 0.80 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.707 ± 0.068	84.45	-5.684 ± 0.068	0.521 ± 0.068
PRF-fit source offset from KIC position	6.508 ± 0.068	96.30	-6.479 ± 0.068	0.614 ± 0.068
photometric centroid source offset	3.29 ± 27.29	0.12	1.87 ± 47.44	-2.71 ± 5.21

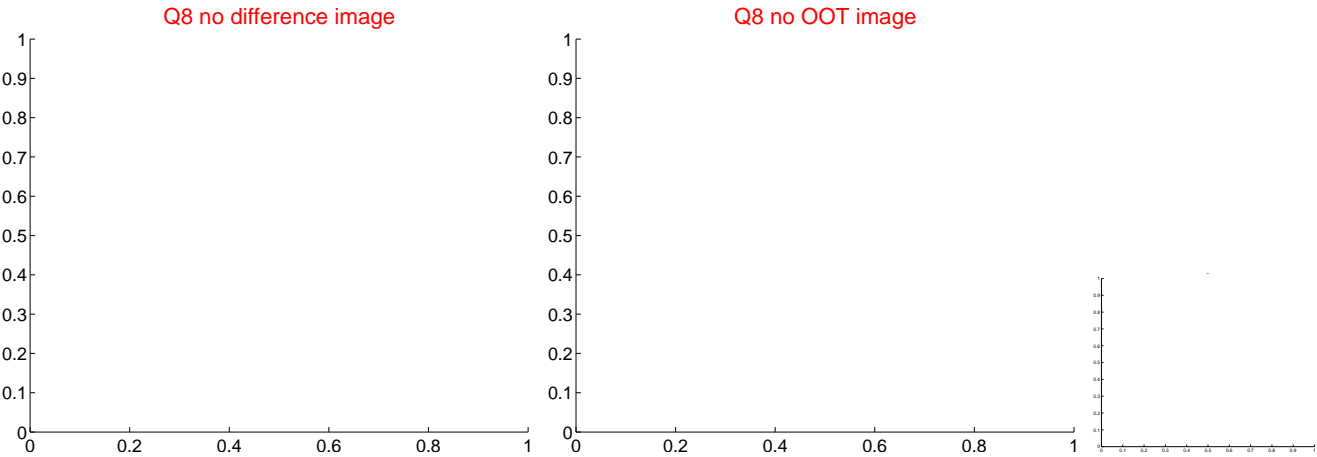
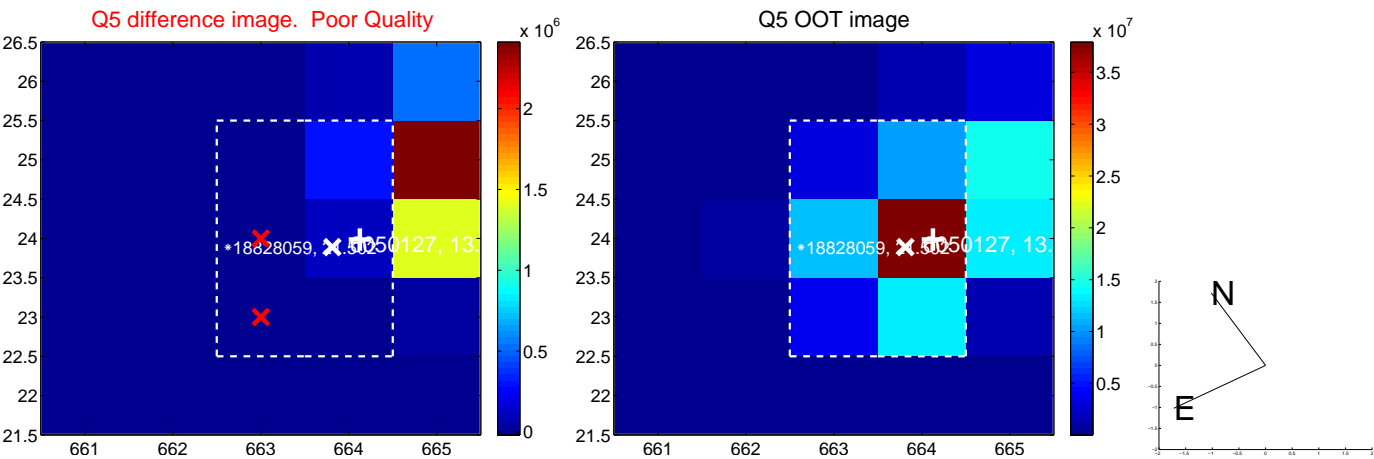


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

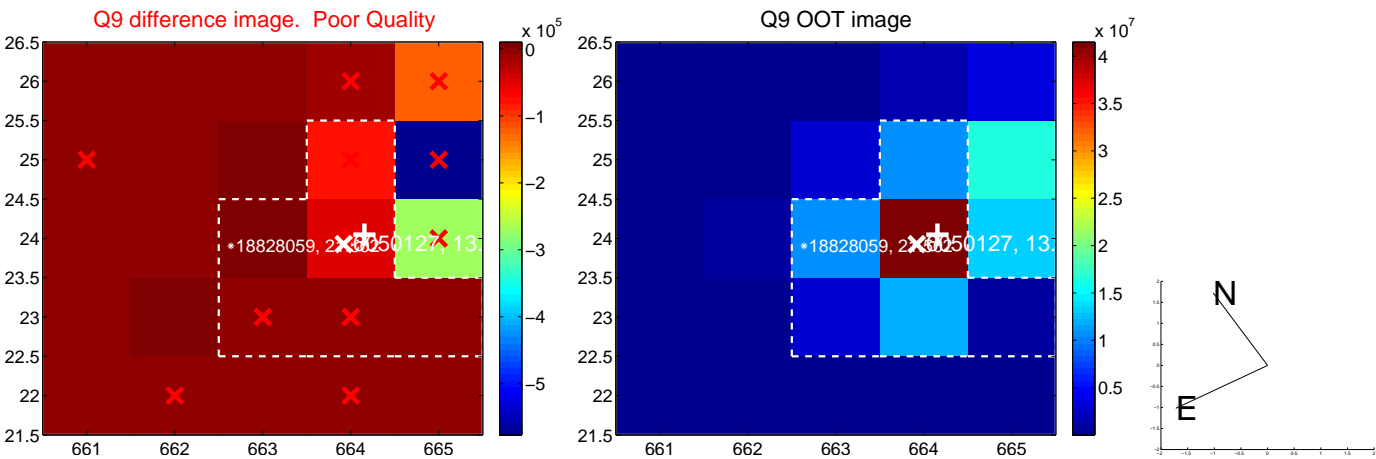
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



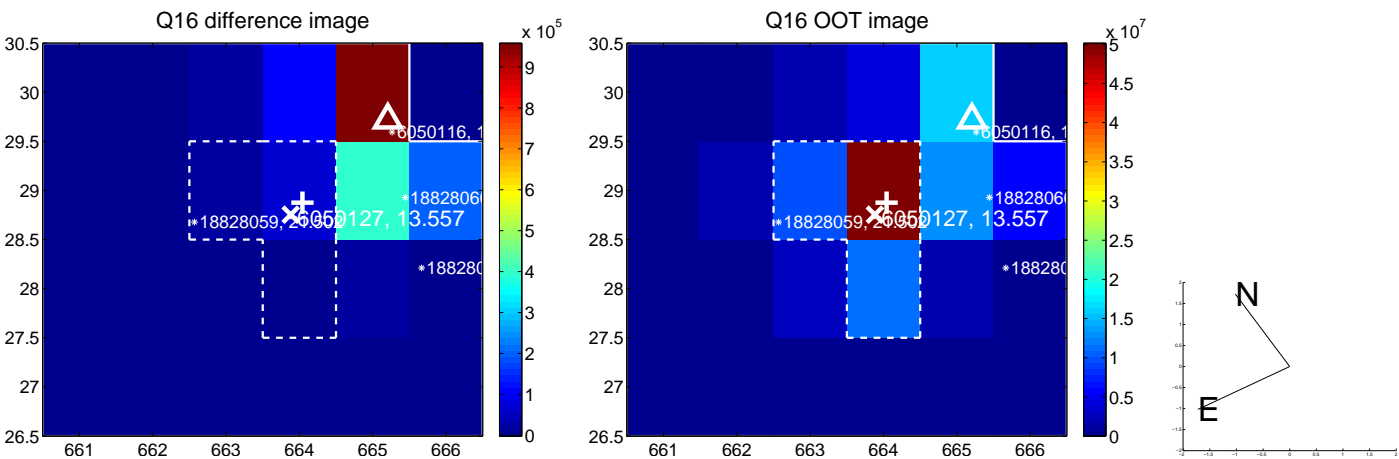
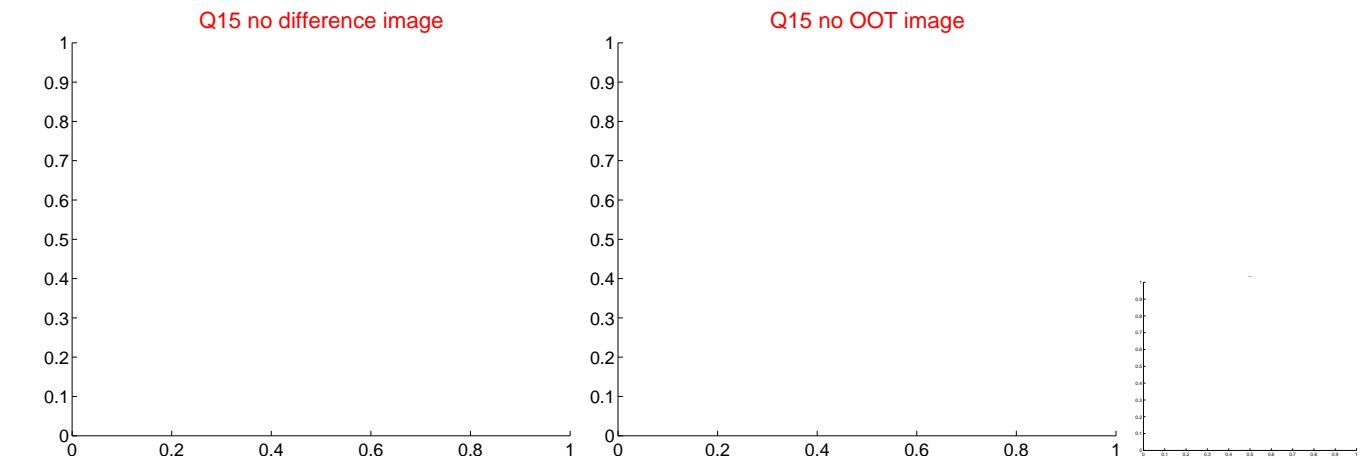
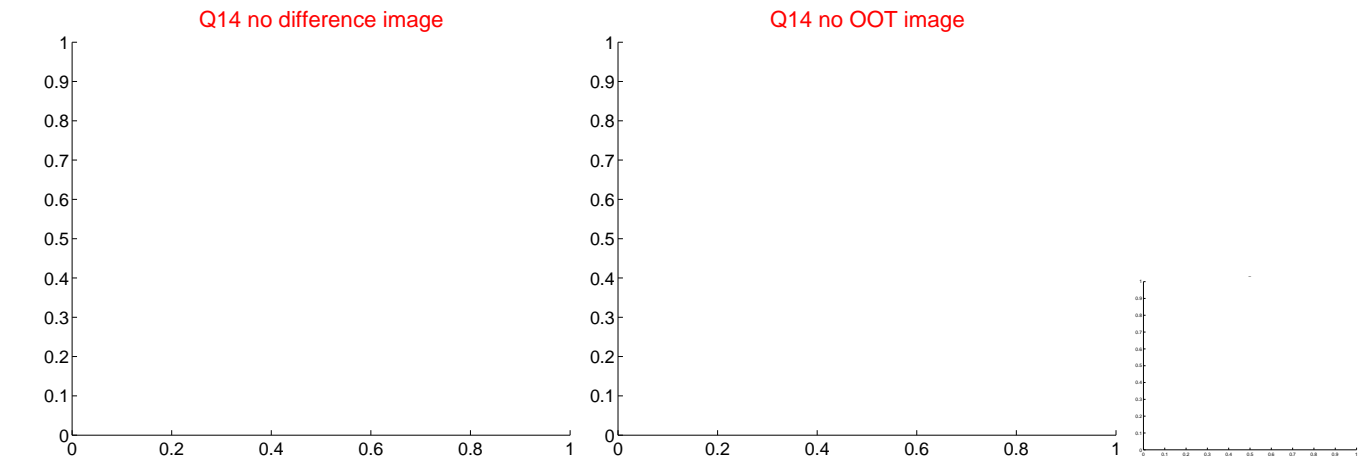
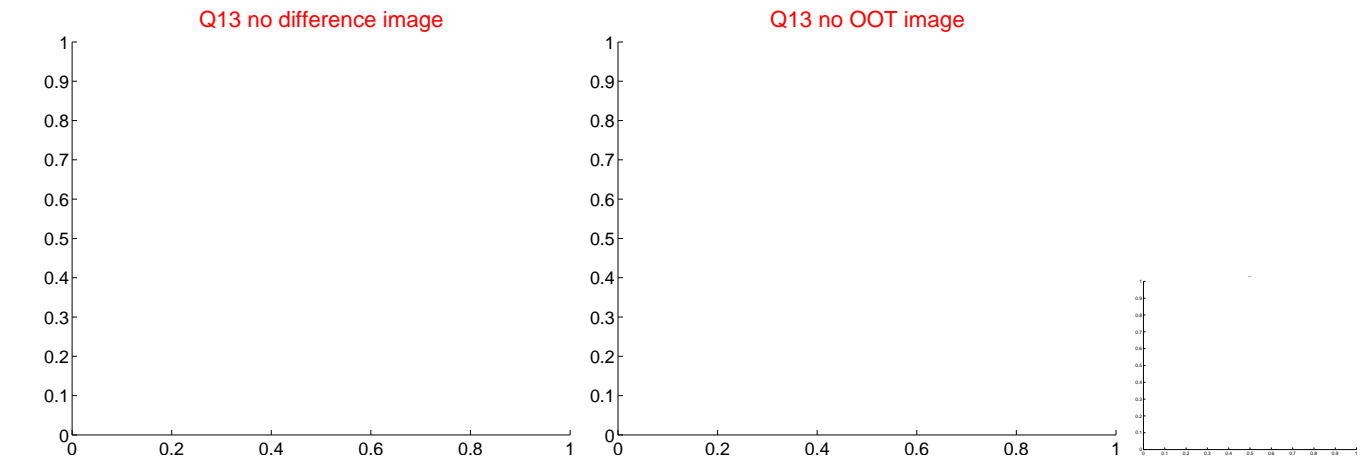
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



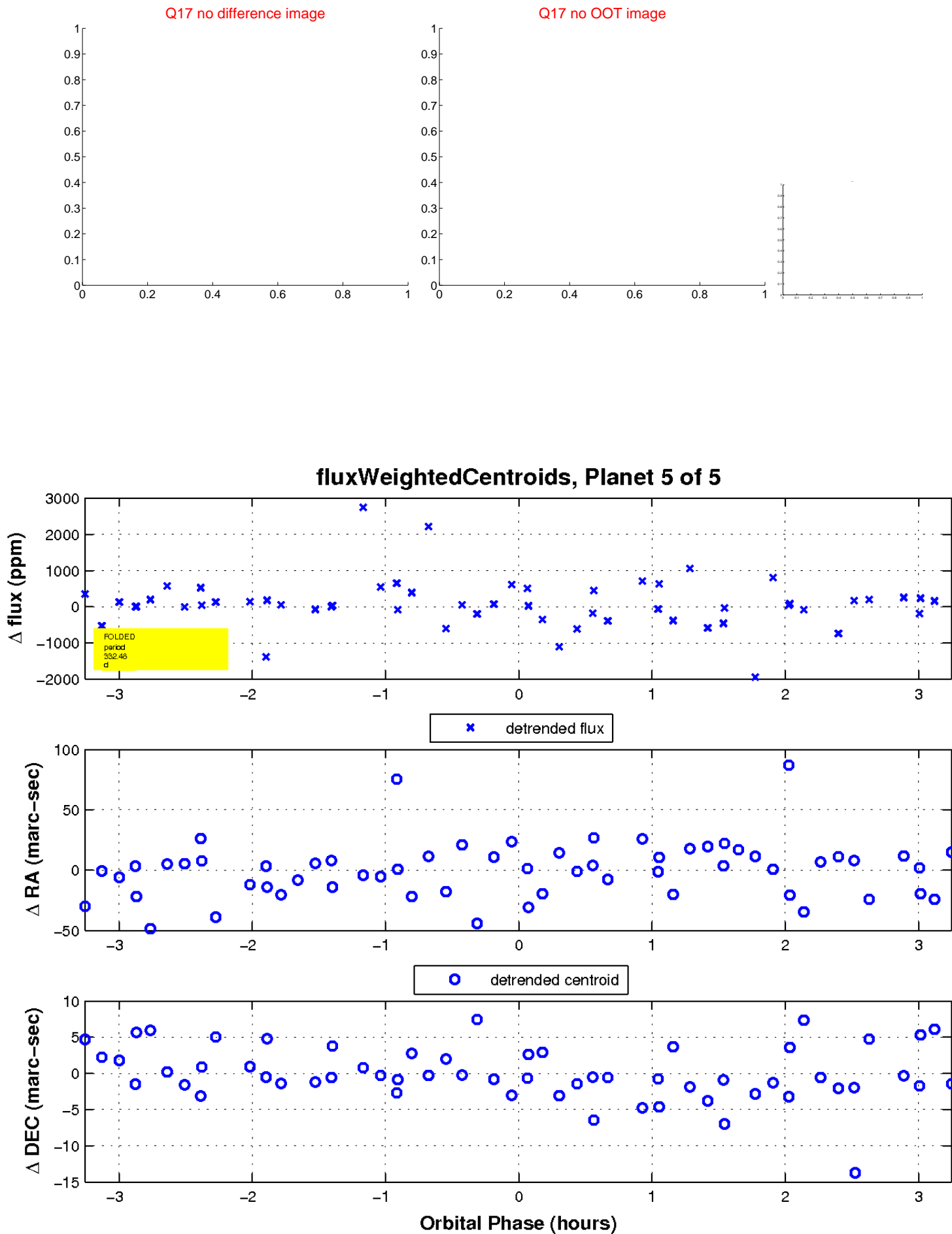
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white ×: 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.



UKIRT Image

Declination

