

KIC 005705927

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})
005705927-01	OBS	No	1.612345	132.929104	41.9	3.817	9.3	9.9	2.68	6671	2.03	12063.68
005705927-02	OBS	No	1.612350	131.624842	38.9	3.408	9.7	9.6	2.68	6671	1.98	12063.63
005705927-03	OBS	No	1.612298	132.603138	39.2	3.856	9.6	11.1	2.68	6671	1.99	12064.15
005705927-04	OBS	No	194.428555	135.366996	316.0	8.968	8.1	8.2	2.68	6671	5.12	20.25
005705927-05	OBS	No	181.530205	262.327330	421.2	6.228	8.2	8.3	2.68	6671	6.08	22.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005705927-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT

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

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

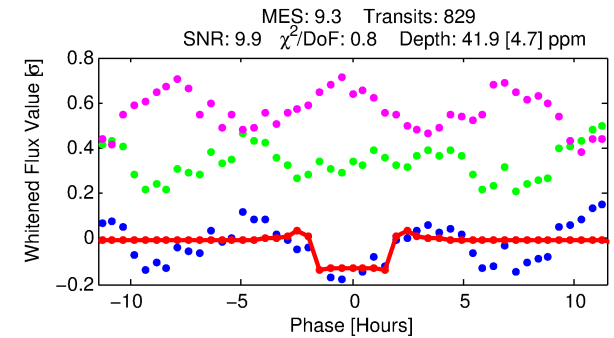
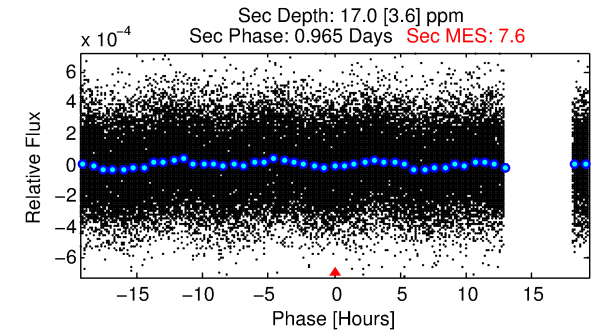
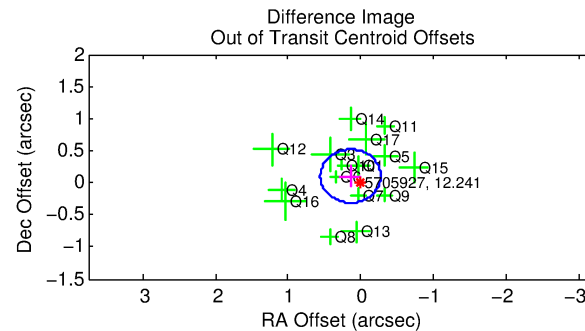
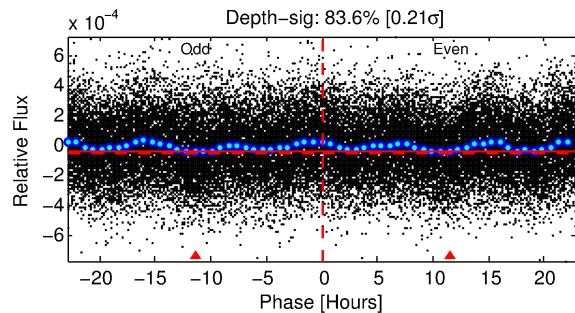
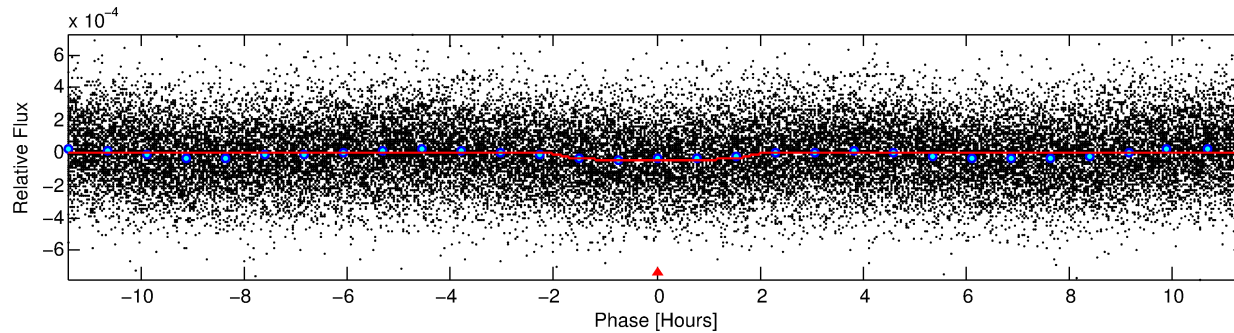
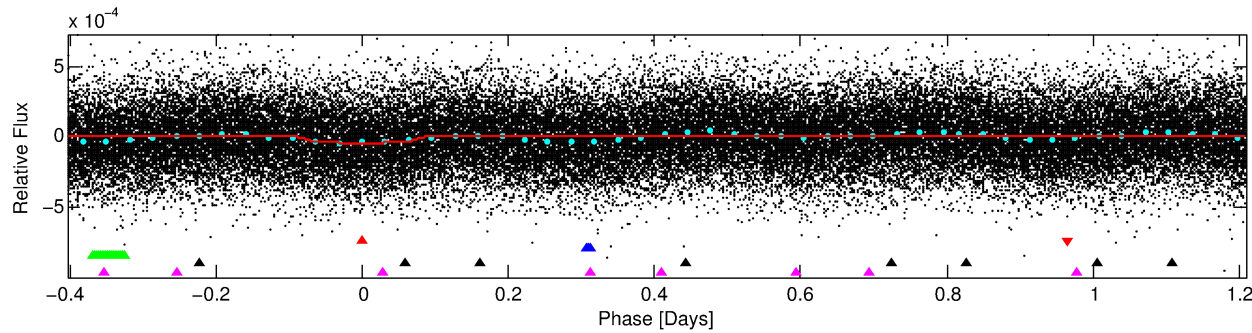
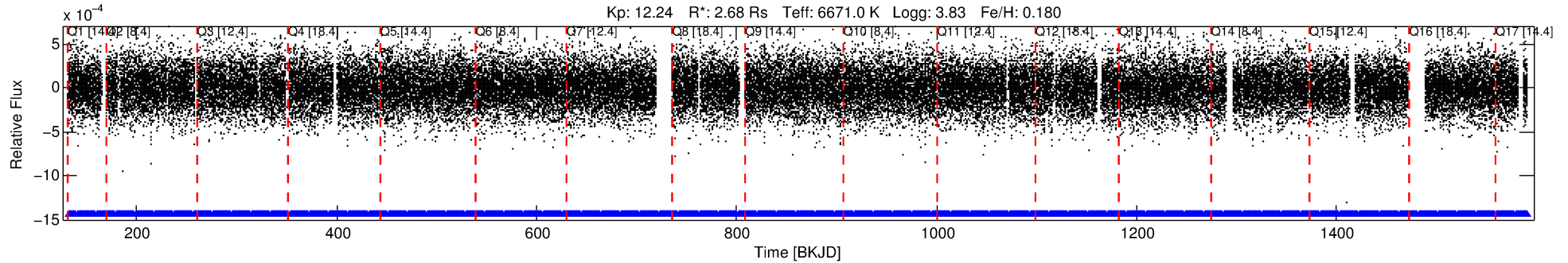
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005705927-01

No Significant Match Found

DV One-Page Summary

KIC: 5705927 Candidate: 1 of 5 Period: 1.612 d



DV Fit Results:

Period = 1.61234 [0.00001] d
Epoch = 132.9291 [0.0027] BKJD
Rp/R* = 0.0069 [0.0017]
a/R* = 1.72 [1.62]
b = 0.90 [0.30]
Seff = 12063.68 [4294.17]
Teff = 2672 [238] K
Rp = 2.03 [0.72] Re
a = 0.0325 [0.0074] AU
Ag = 2.39 [1.55] [0.90 σ]
Teffp = 5140 [701] K [3.33 σ]

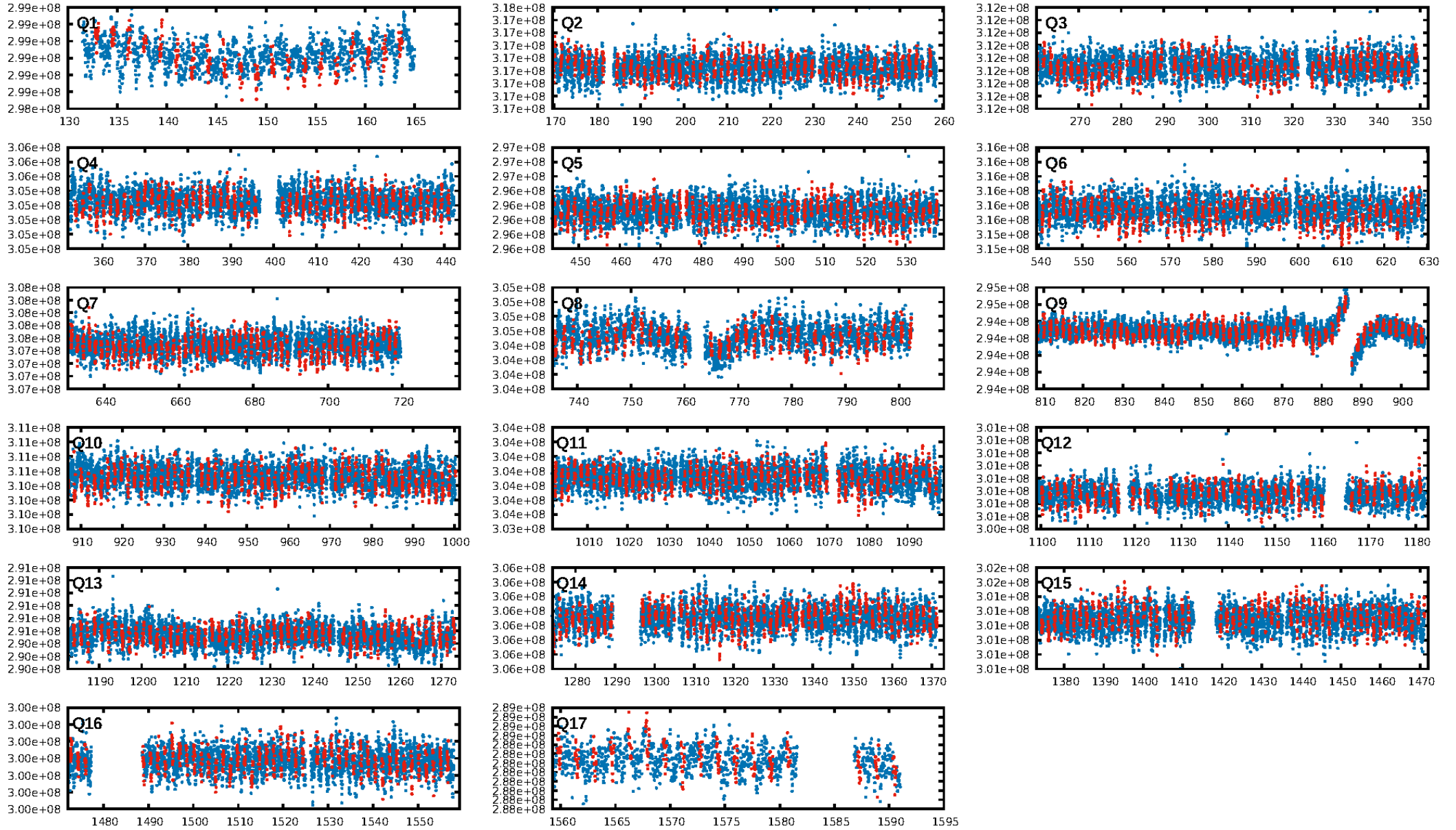
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.63e-13
RollingBand-fgt: 1.00 [792/792]
GhostDiagnostic-chr: 2.223
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.176 arcsec [1.27 σ]
KicOffset-rm: 0.185 arcsec [1.31 σ]
OotOffset-st: 3/4/4/5 [16]
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DiffImageQuality-fgm: 1.00 [16/16]
DiffImageOverlap-fno: 0.00 [0/17]

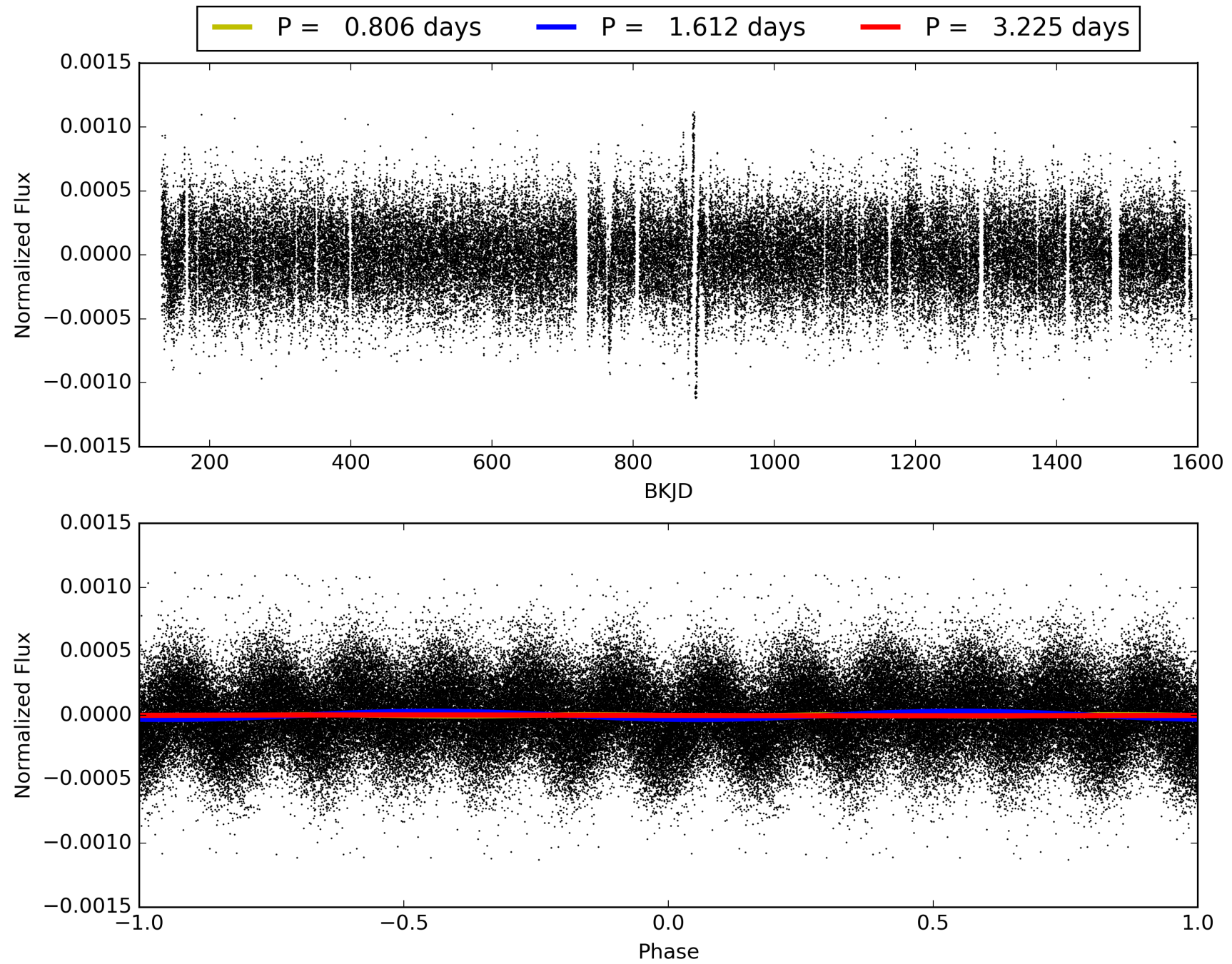
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005705927-01, PDC Light Curves

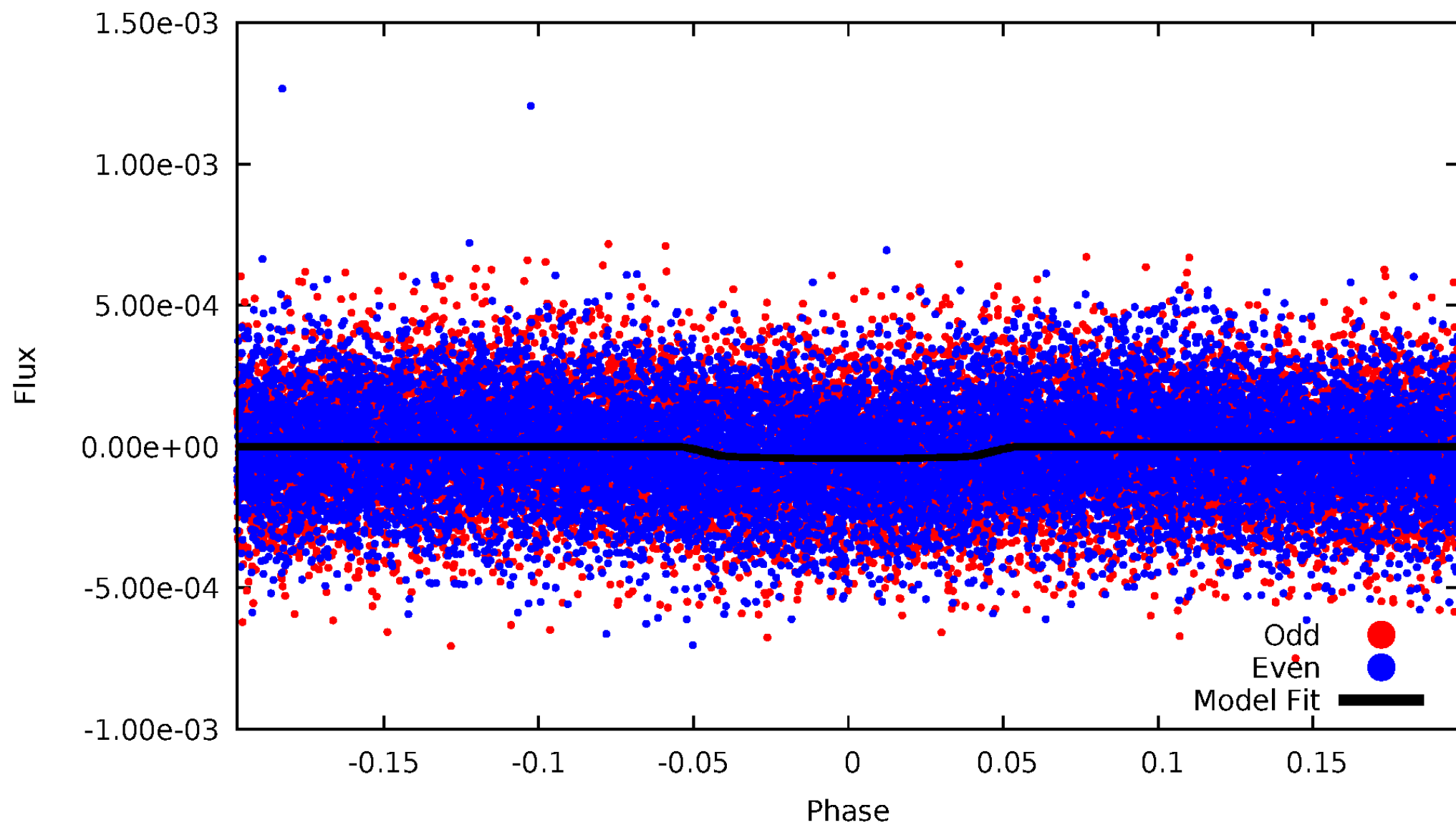


TCE 005705927-01



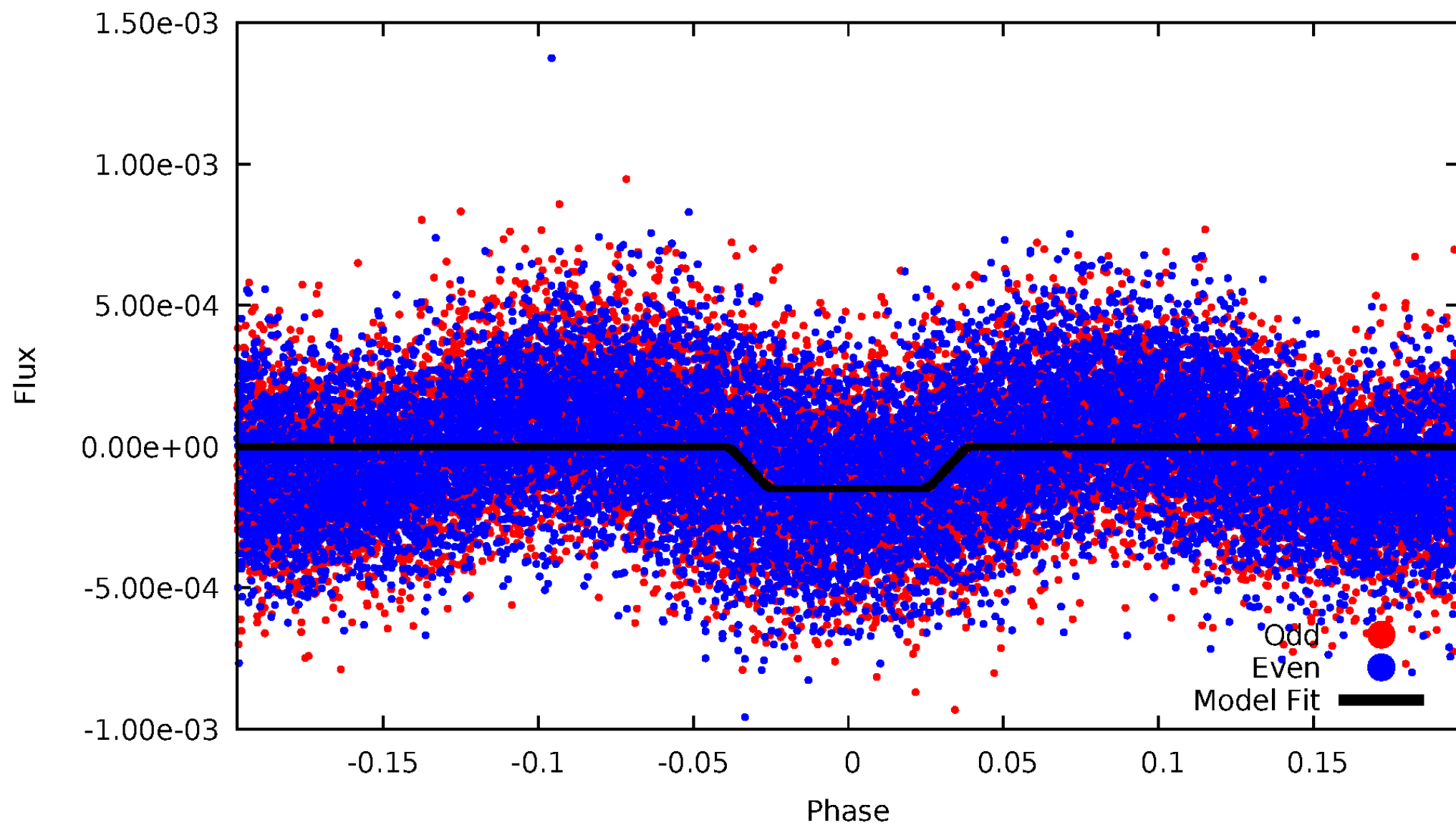
DV Odd/Even

TCE 005705927-01

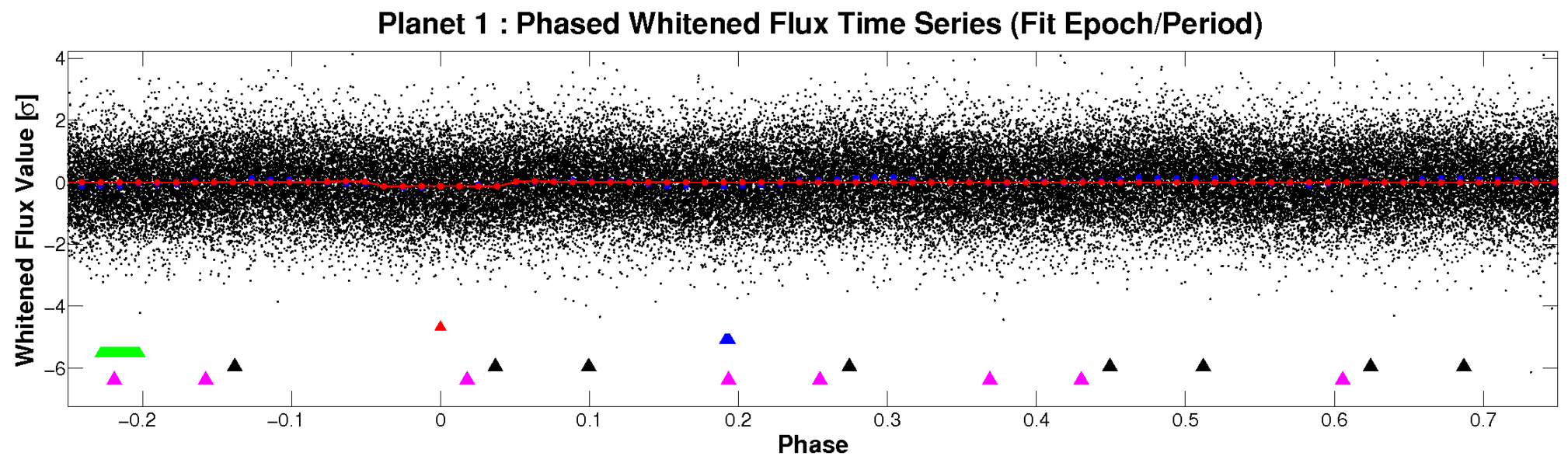
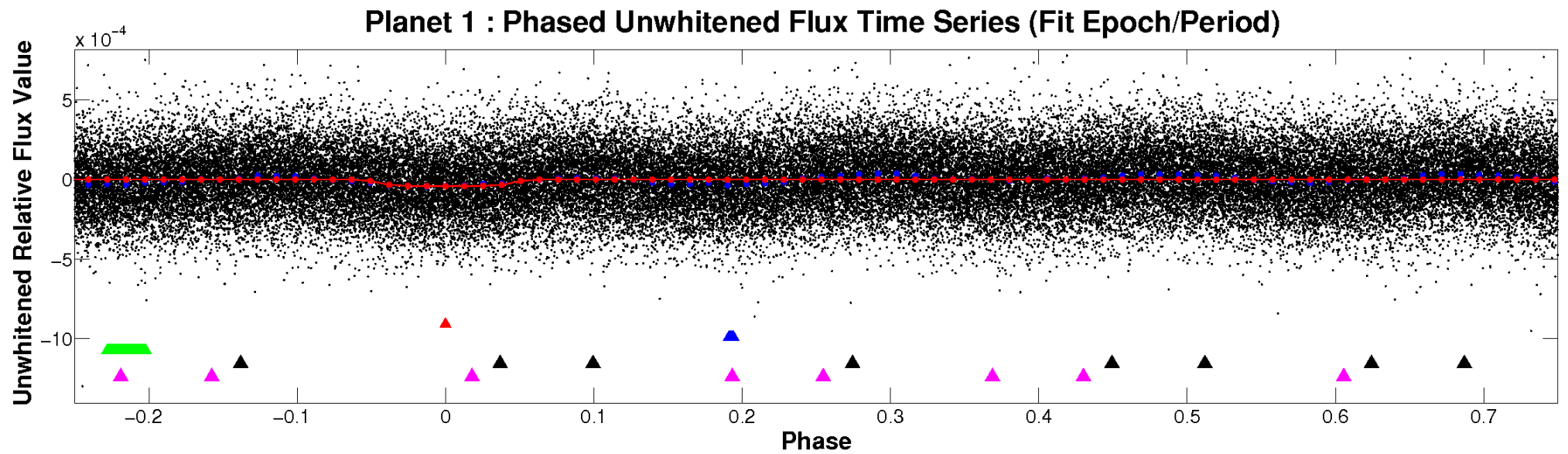


ALT Odd/Even

TCE 005705927-01

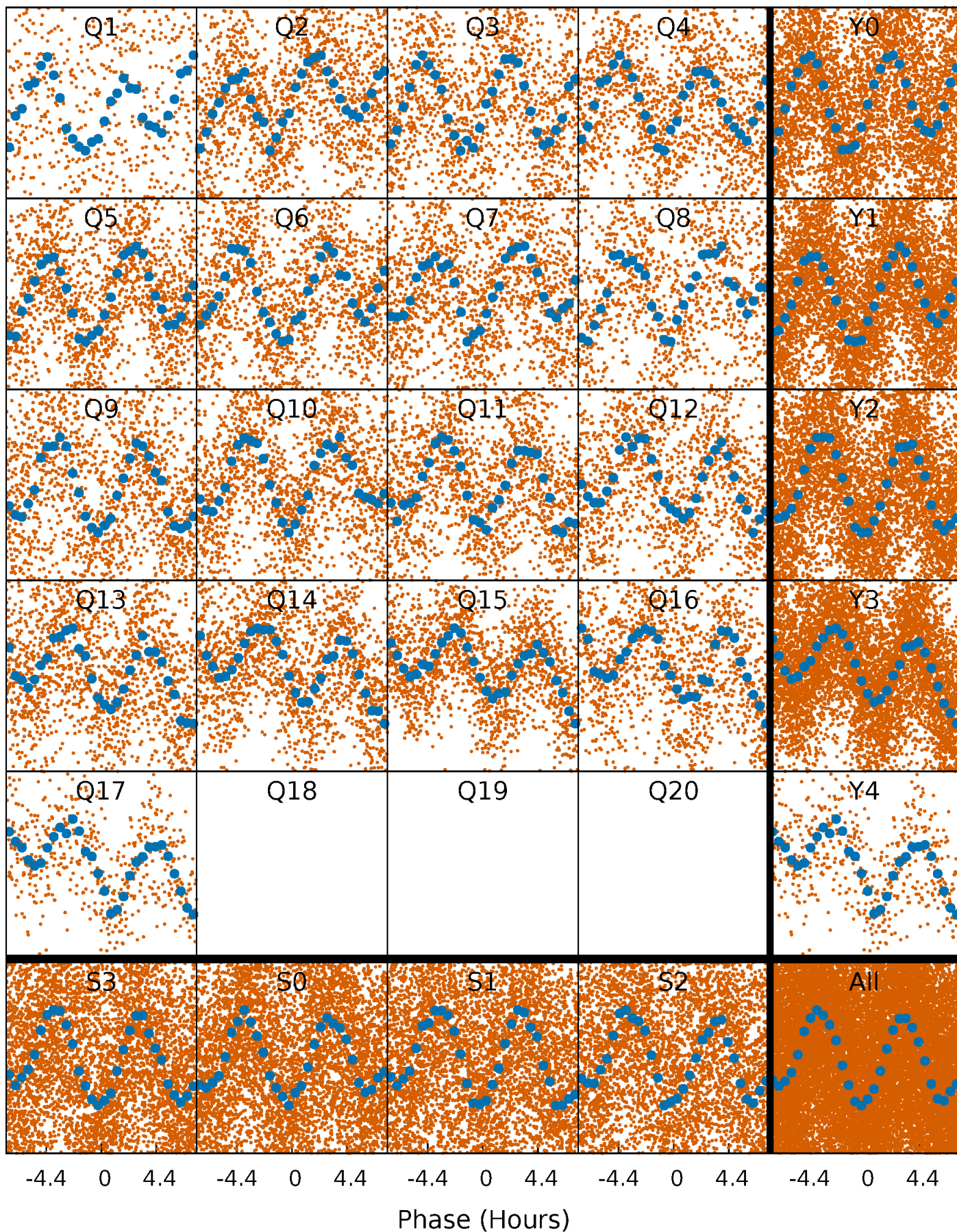


Non-Whitened Vs. Whitened Light Curve



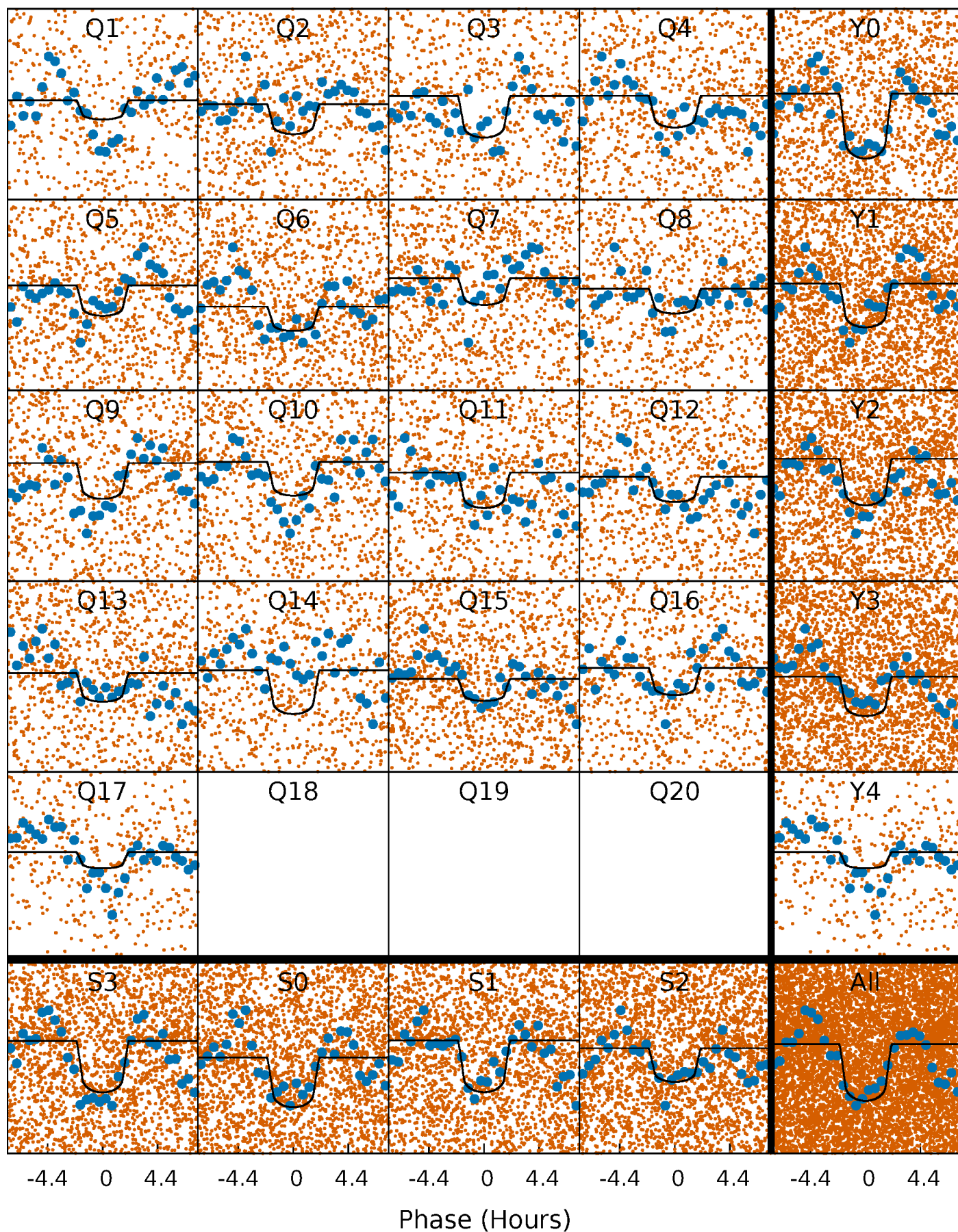
PDC Quarter-Phased Transit Curves

TCE 005705927-01 P= 1.612345 Days $T_0=132.929104$ (BKJD)



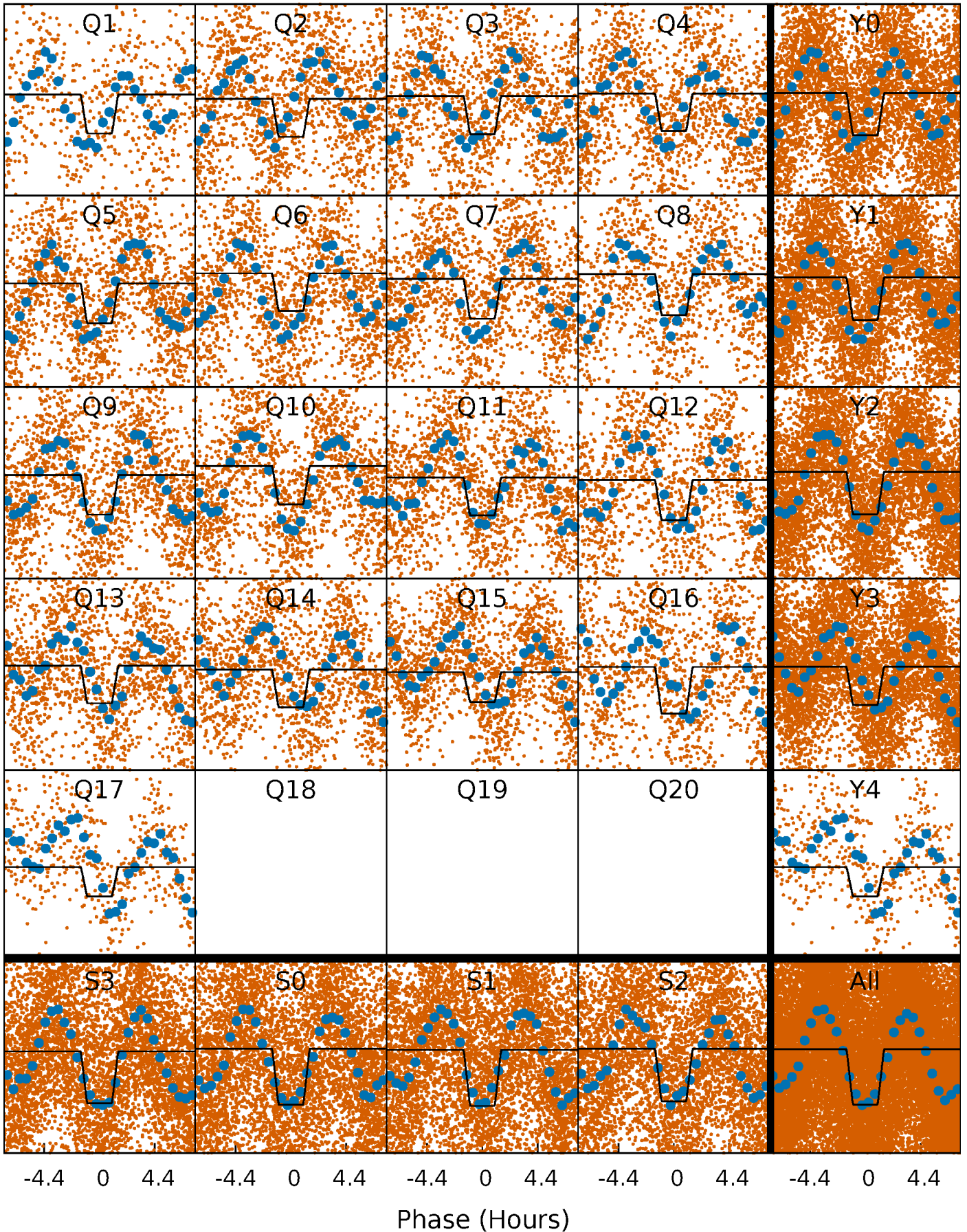
DV Quarter-Phased Transit Curves

TCE 005705927-01 P= 1.612345 Days $T_0=132.929104$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

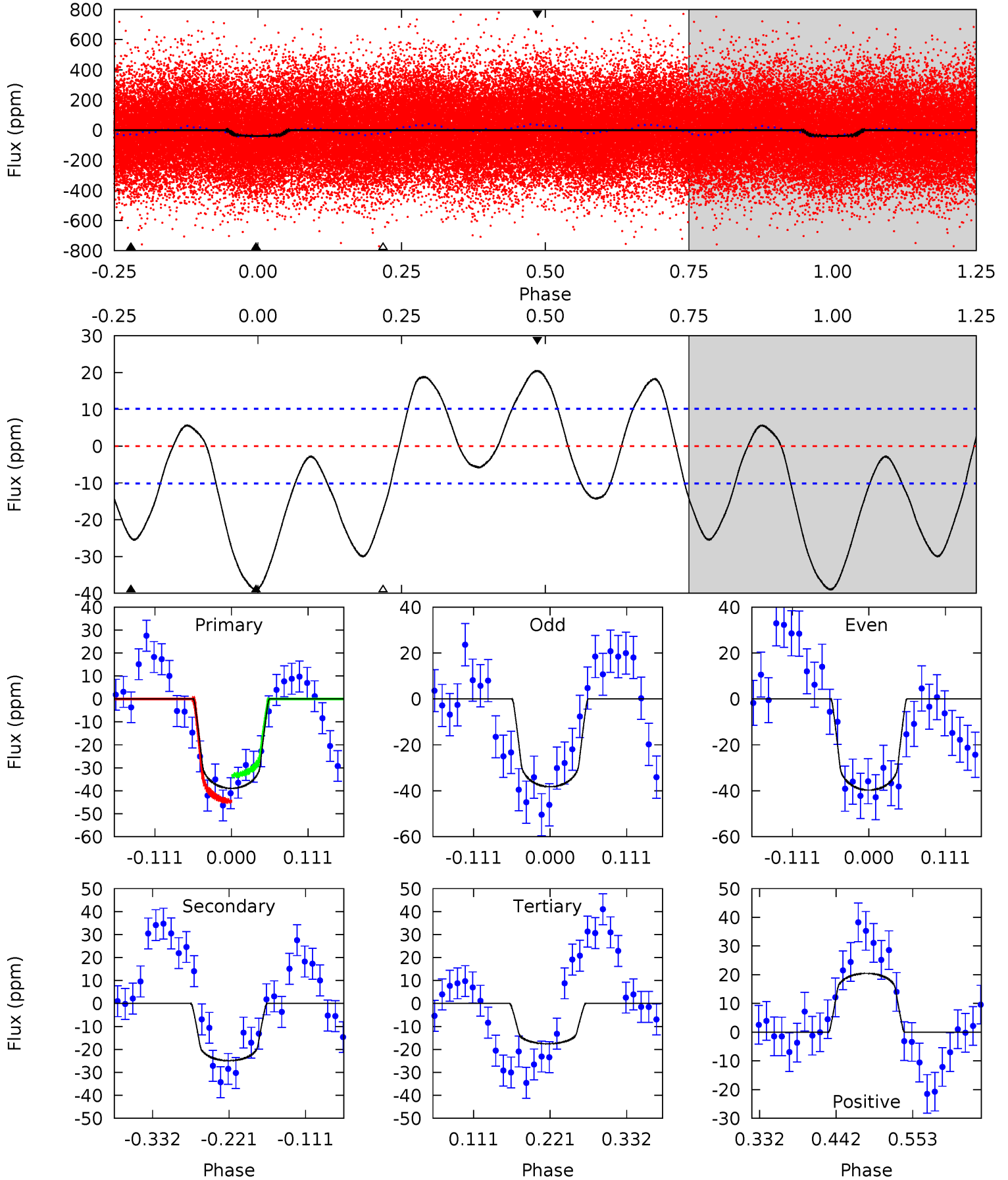
TCE 005705927-01 P= 1.612351 Days $T_0=132.917781$ (BKJD)



DV Model-Shift Uniqueness Test

005705927-01, P = 1.612345 Days, E = 131.316759 Days

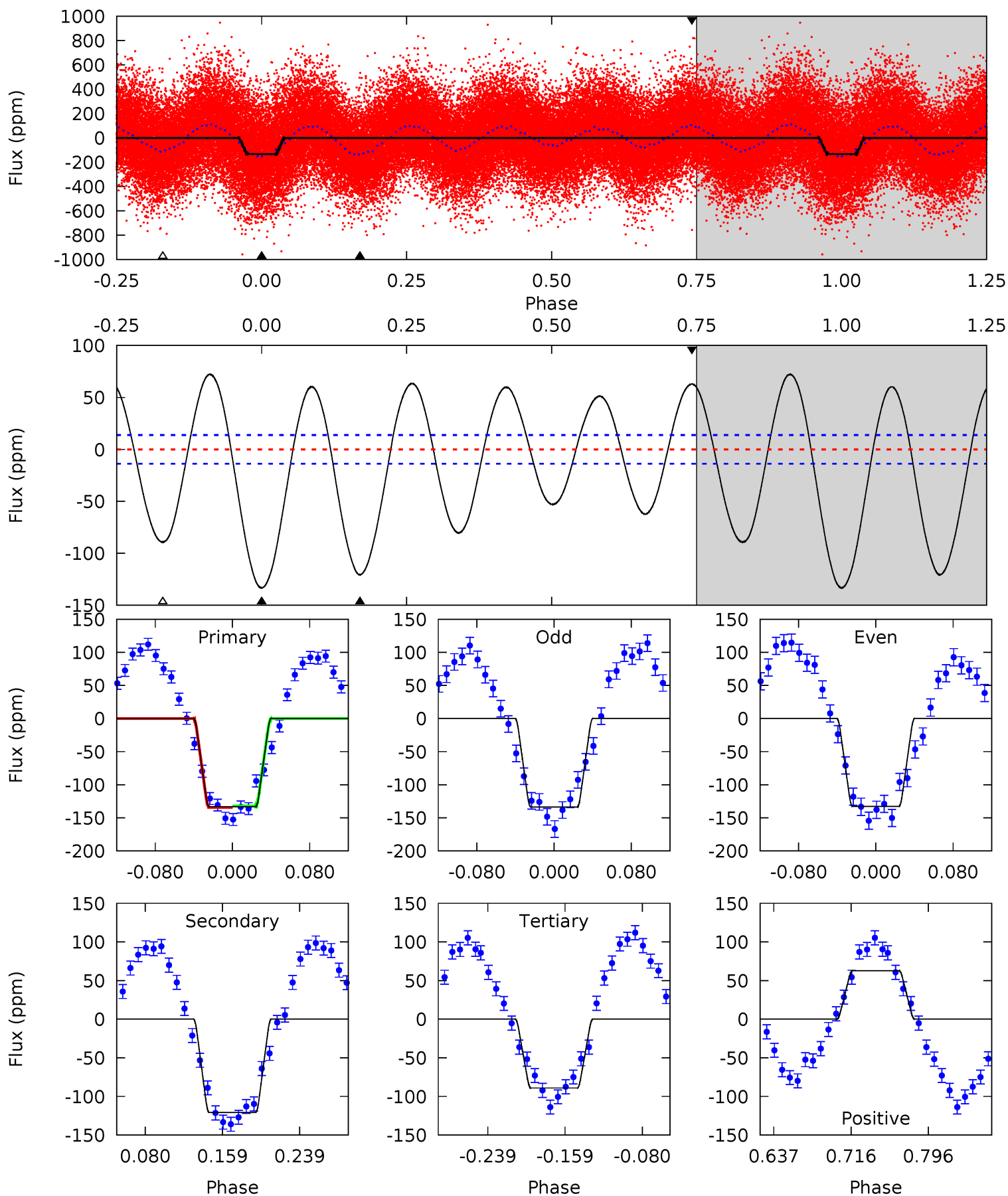
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
17.4	11.1	7.83	9.14	4.54	1.60	6.32	9.57	8.26	3.29	1.98	0.33	1.01	0.34	2.52



Alt Model-Shift Uniqueness Test

005705927-01, P = 1.612351 Days, E = 131.305430 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
44.6	40.3	29.8	21.0	4.61	1.75	16.3	14.7	23.5	10.5	19.3	0.18	1.04	0.35	0.37



Stellar Parameters For KIC 005705927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6671^{+73}_{-86}	$3.827^{+0.201}_{-0.108}$	$0.180^{+0.150}_{-0.150}$	$2.677^{+0.512}_{-0.682}$	$1.754^{+0.155}_{-0.224}$	$0.129^{+0.135}_{-0.050}$
	+1%/-1%	+5%/-3%	+83%/-83%	+19%/-25%	+9%/-13%	+105%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005705927-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-25 ± 2	$1.97^{+0.57}_{-0.53}$	3708^{+186}_{-243}	5535^{+886}_{-579}	$3.712^{+3.339}_{-1.534}$
Alt.	-121 ± 3	$3.45^{+0.66}_{-0.65}$	3702^{+175}_{-242}	6252^{+539}_{-467}	$5.906^{+2.987}_{-1.783}$

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

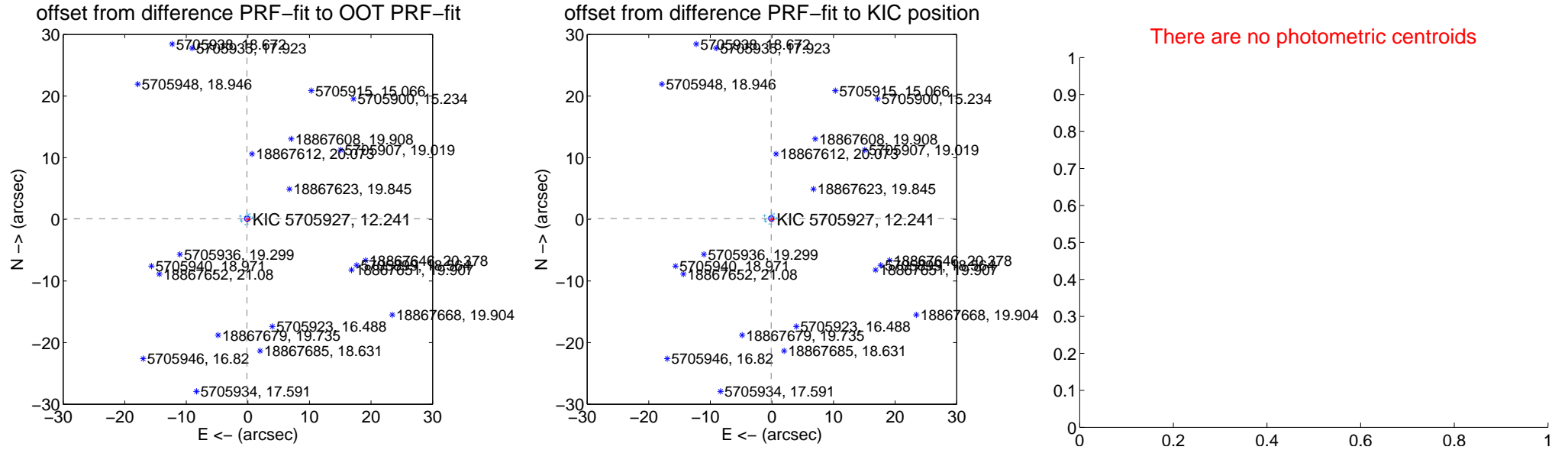
DV Centroid Data

Supplemental centroid analysis for 005705927-01. Kepler magnitude: 12.24. Transit SNR 9.90

There are 16 quarters with good PRF difference image offsets

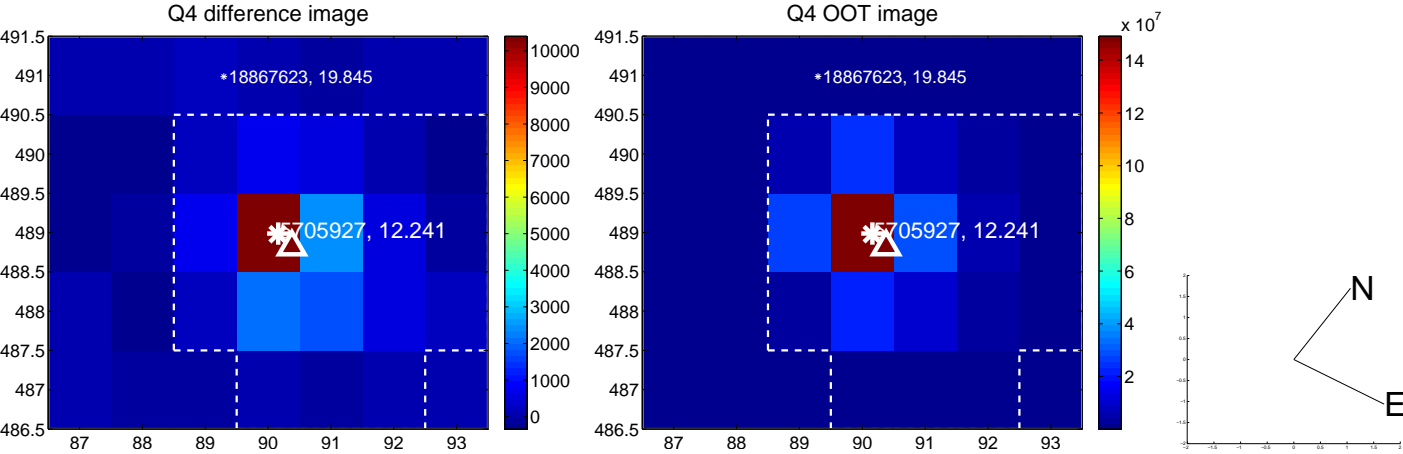
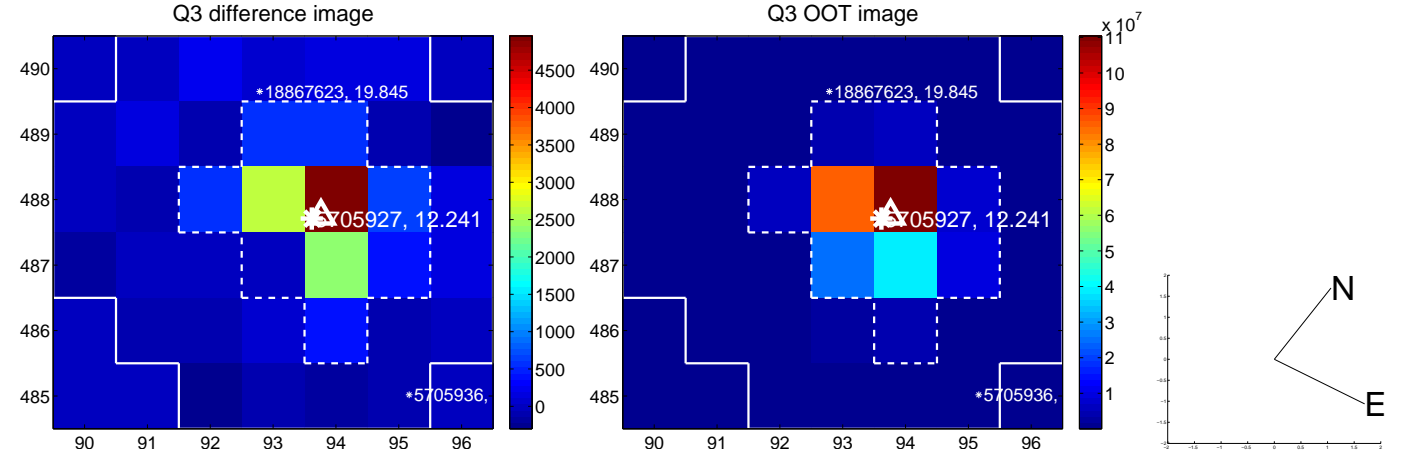
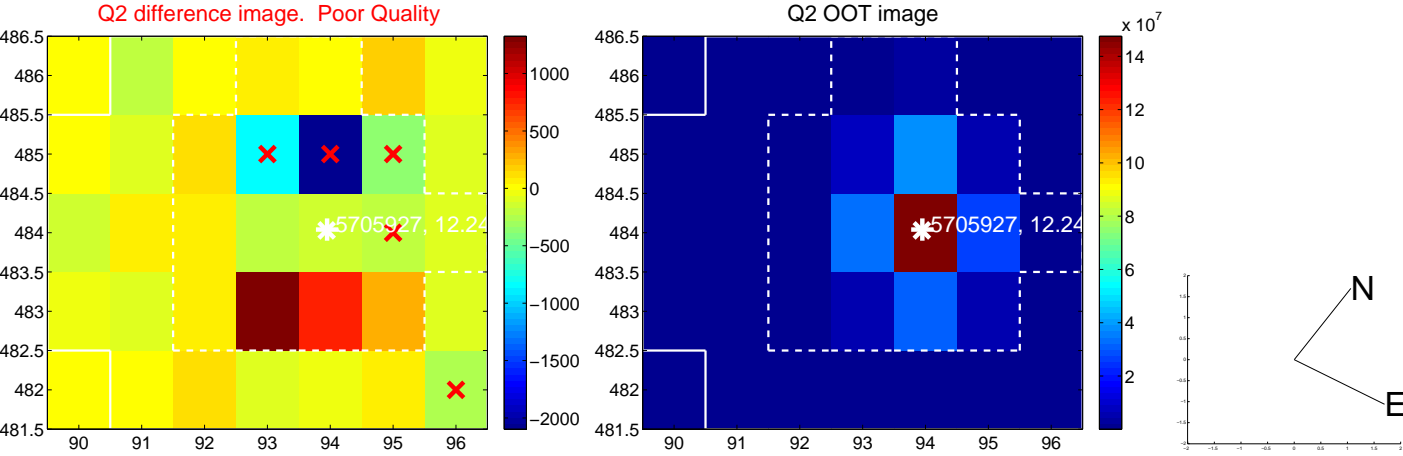
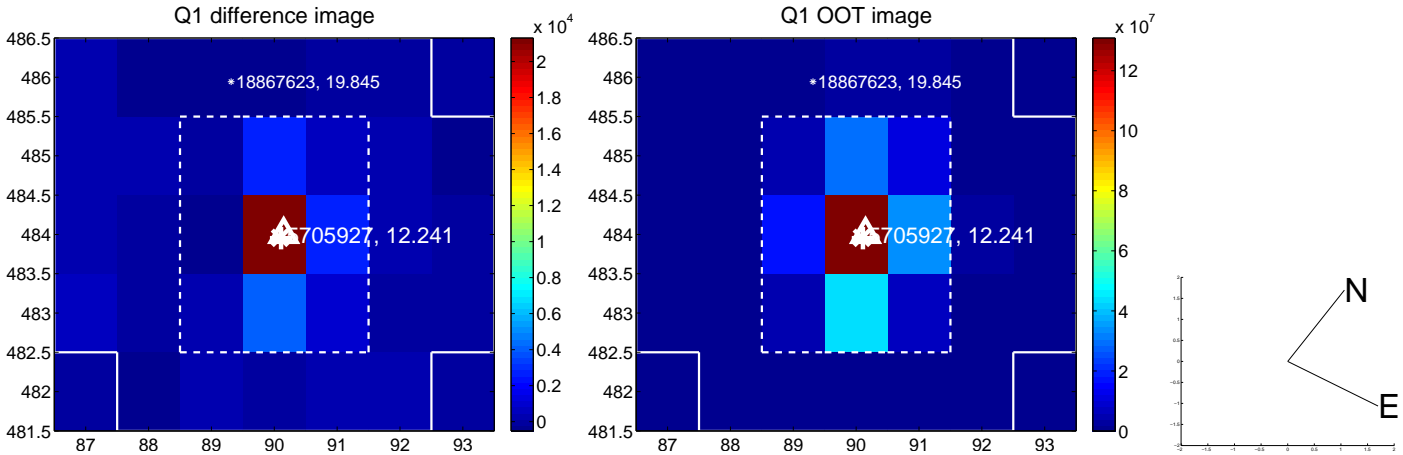
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.176 ± 0.139	1.27	0.143 ± 0.149	0.103 ± 0.157
PRF-fit source offset from KIC position	0.185 ± 0.140	1.31	0.120 ± 0.123	0.141 ± 0.152
photometric centroid source offset	—	—	—	—

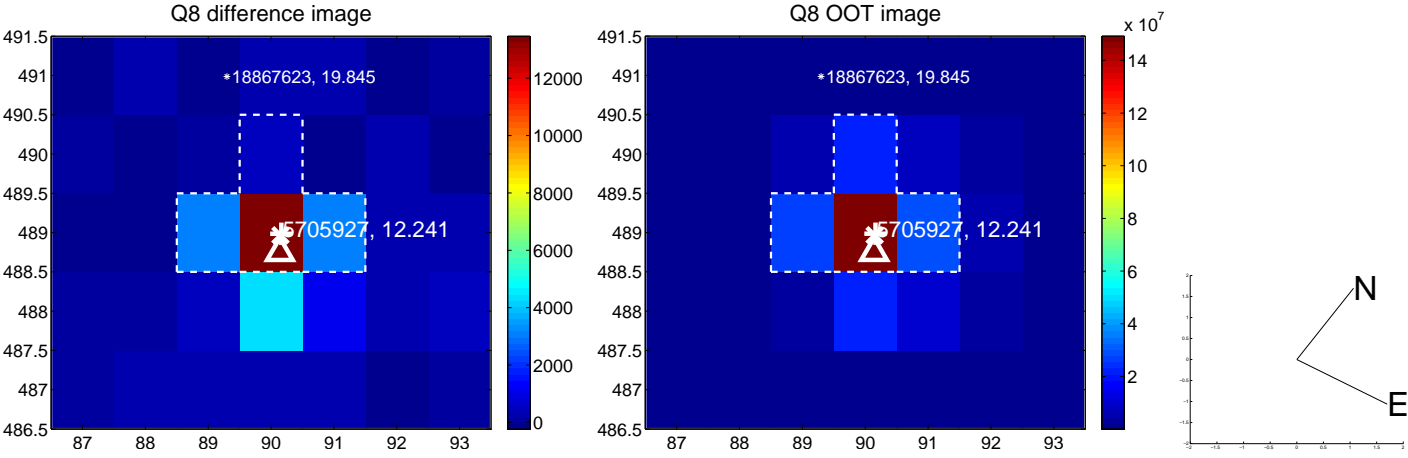
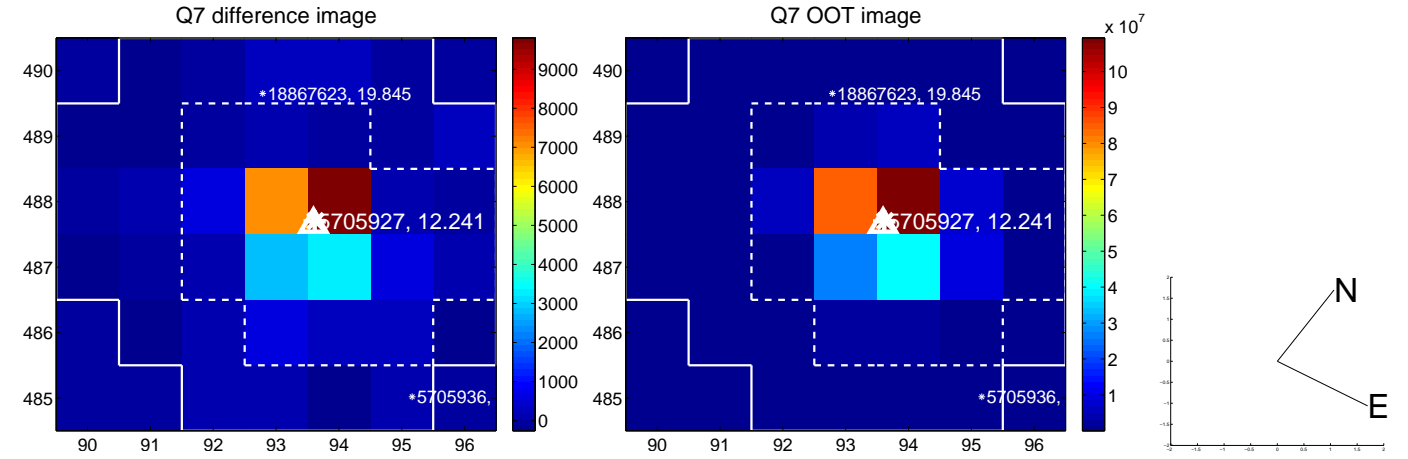
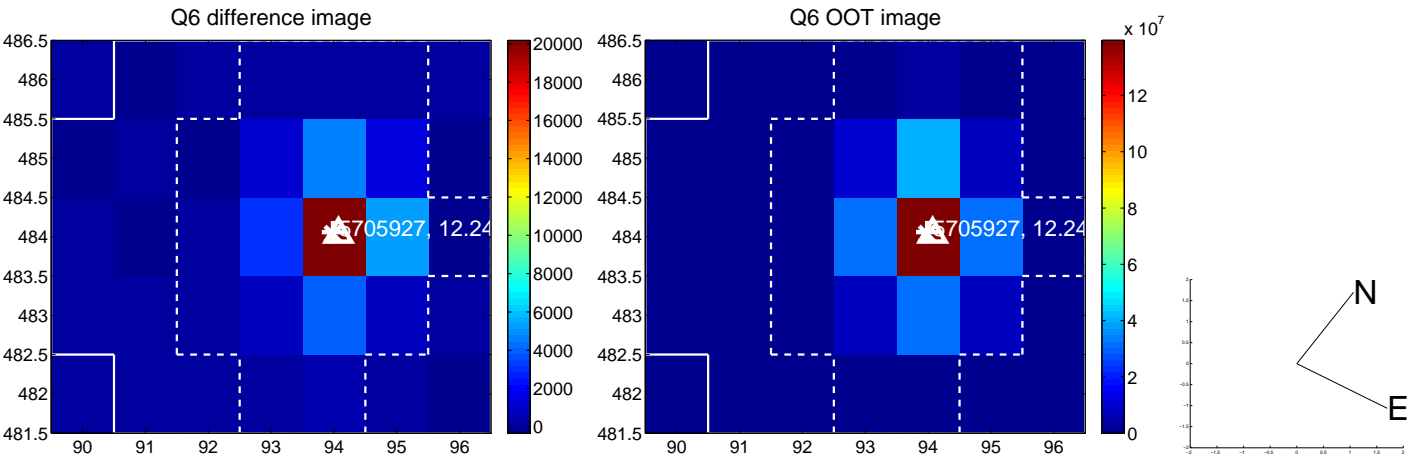
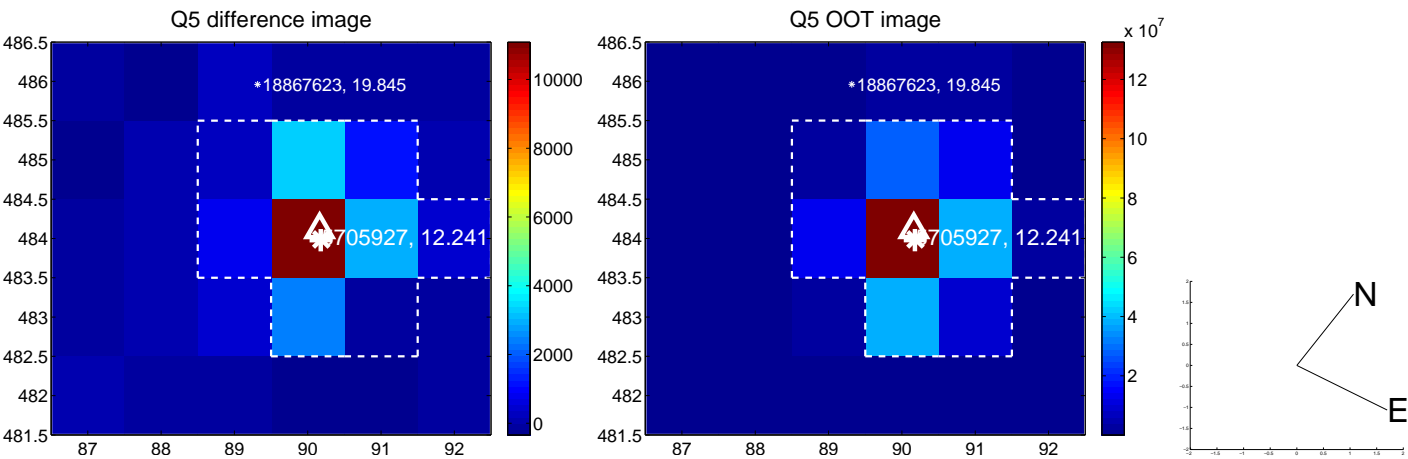


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

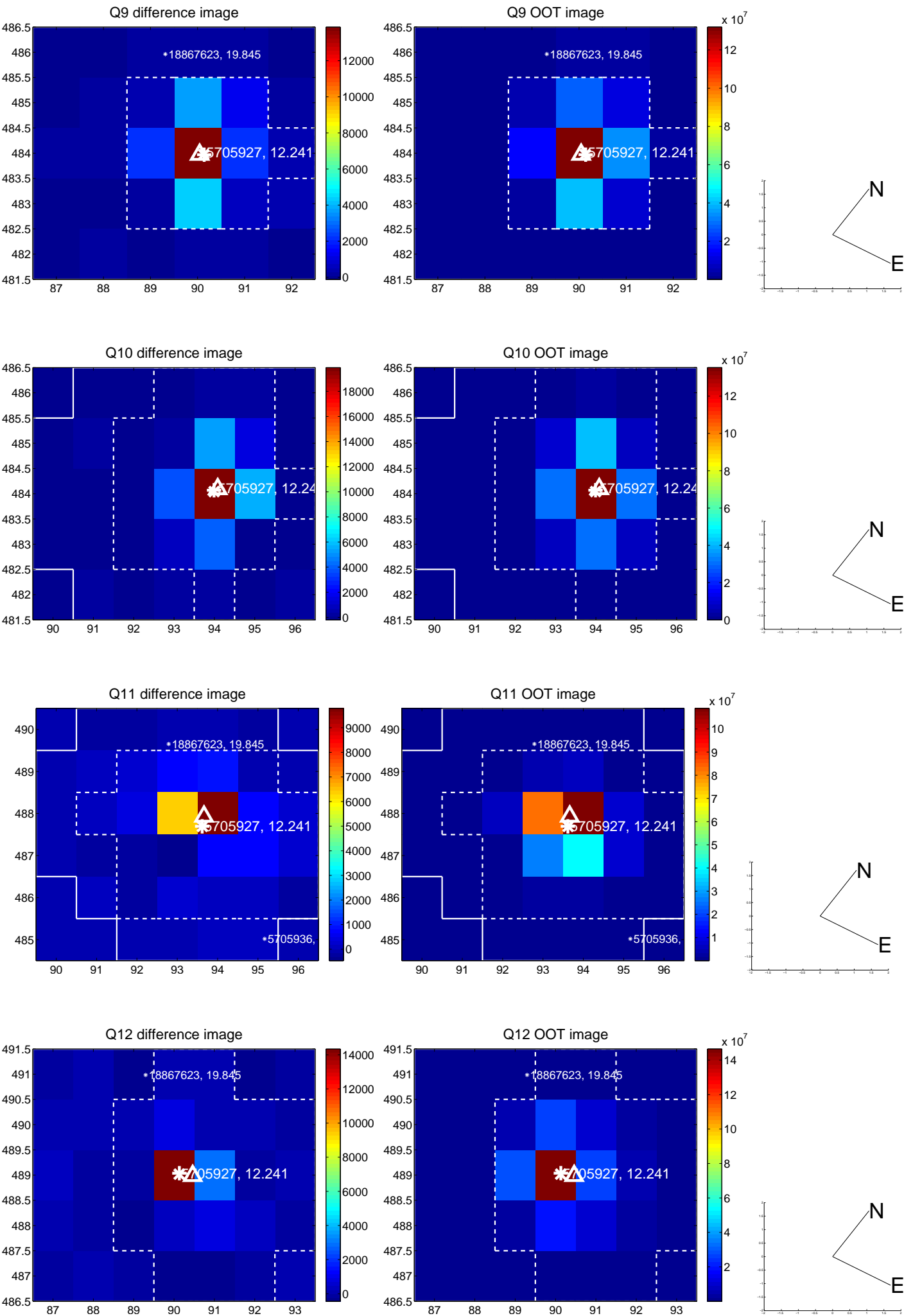
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



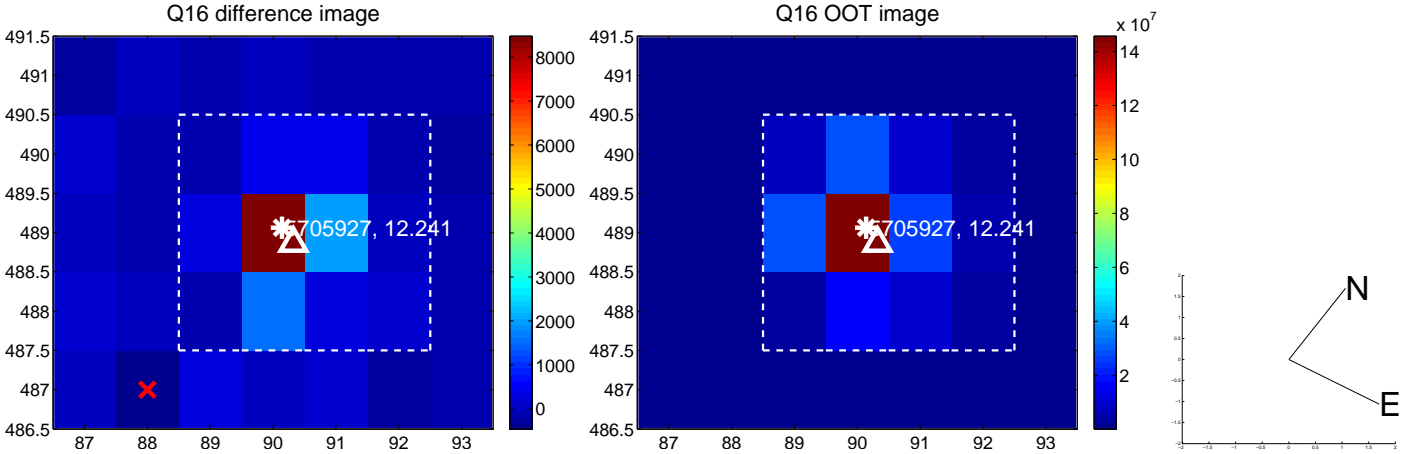
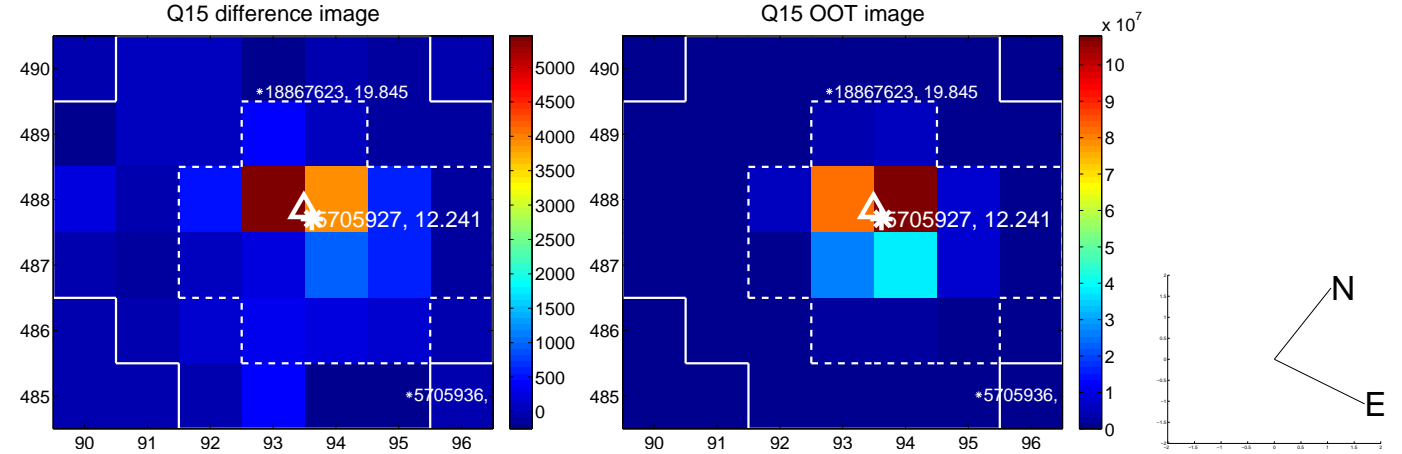
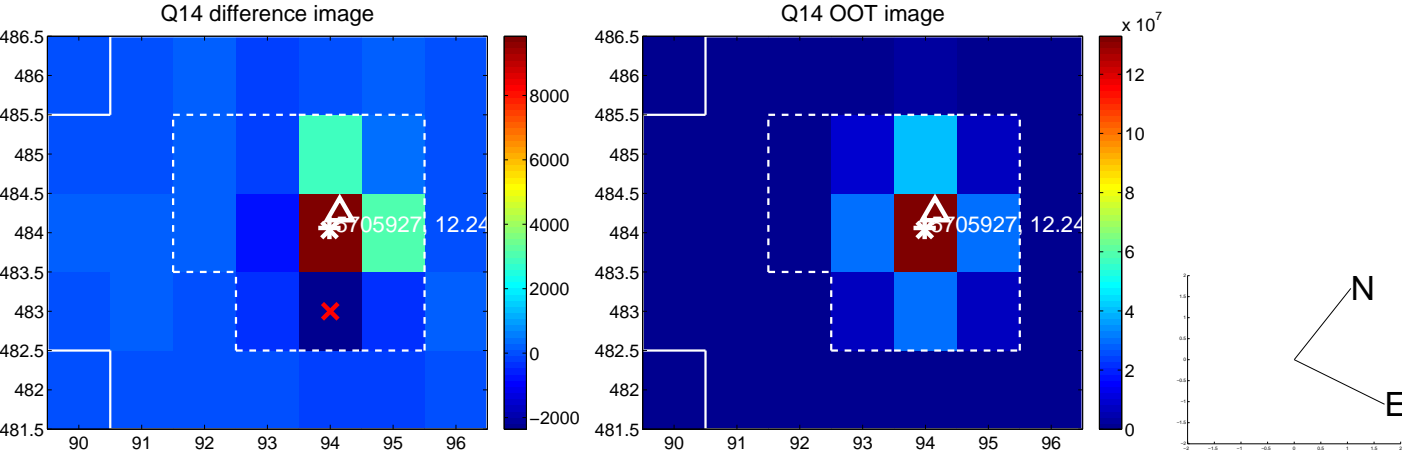
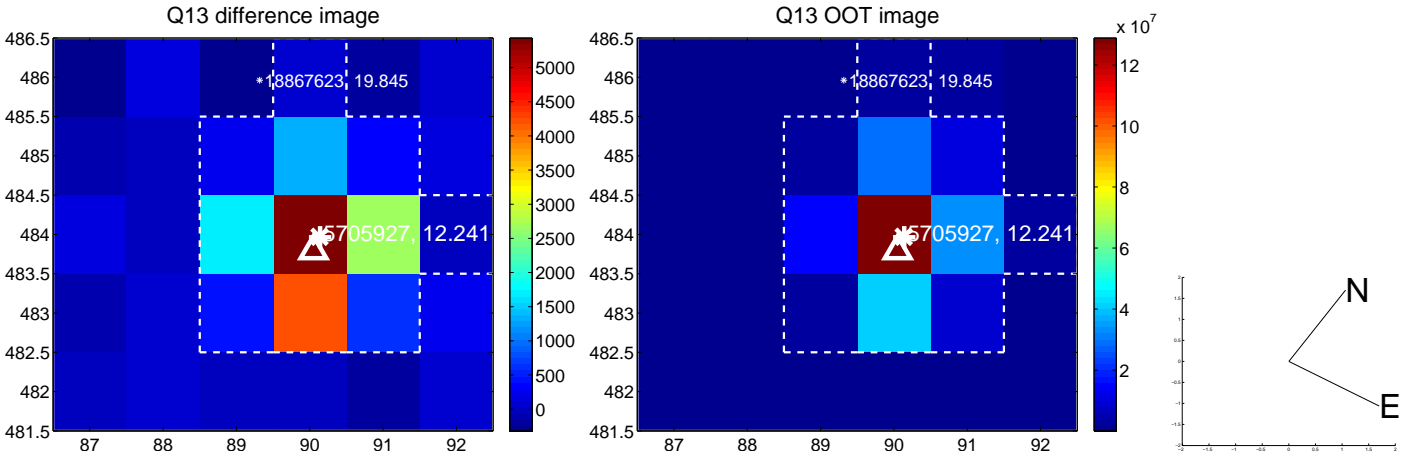
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



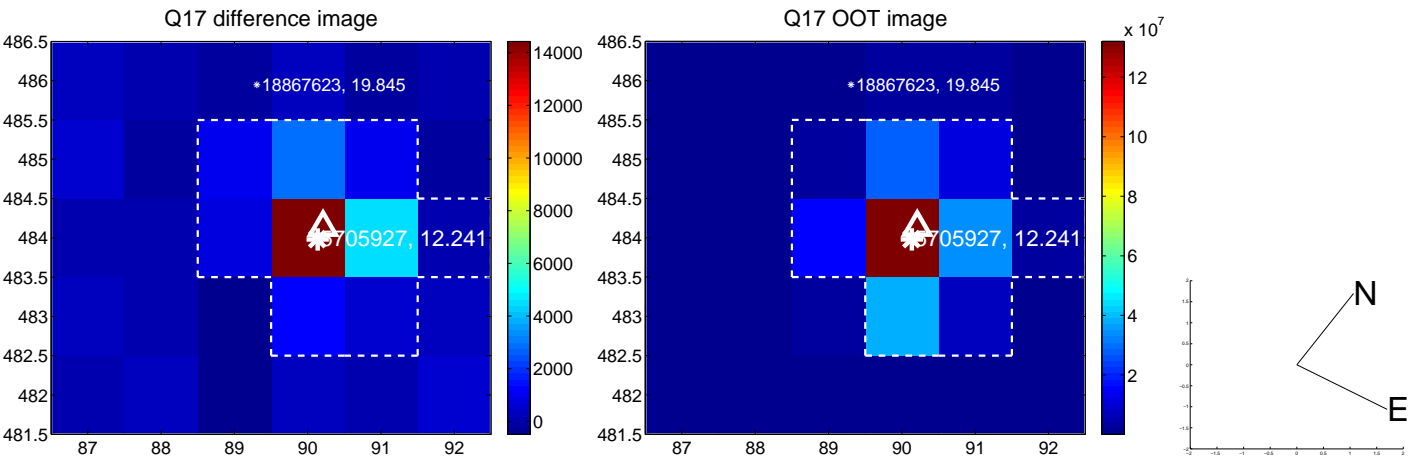
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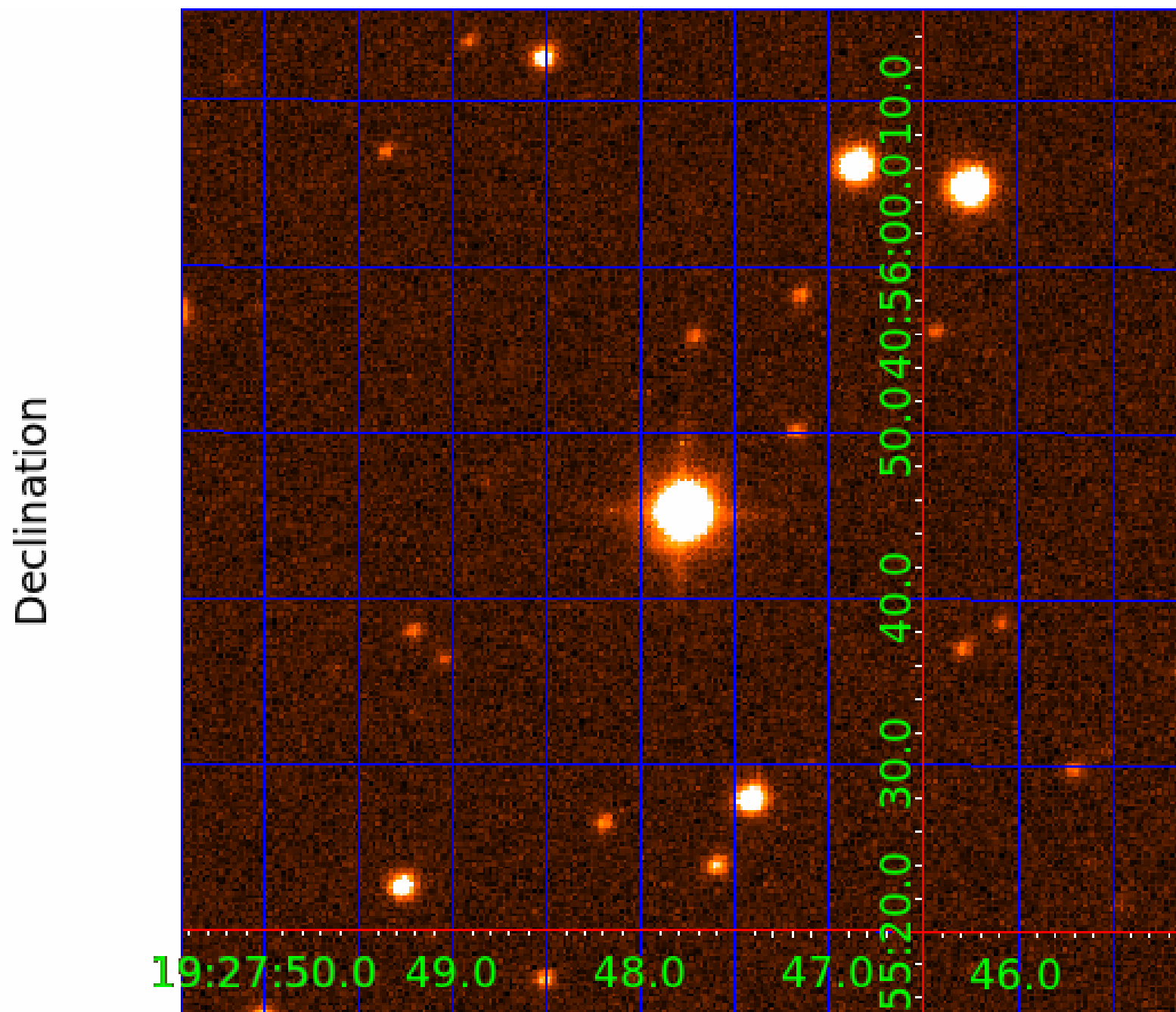


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 005705927

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})
005705927-01	OBS	No	1.612345	132.929104	41.9	3.817	9.3	9.9	2.68	6671	2.03	12063.68
005705927-02	OBS	No	1.612350	131.624842	38.9	3.408	9.7	9.6	2.68	6671	1.98	12063.63
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005705927-04	OBS	No	194.428555	135.366996	316.0	8.968	8.1	8.2	2.68	6671	5.12	20.25
005705927-05	OBS	No	181.530205	262.327330	421.2	6.228	8.2	8.3	2.68	6671	6.08	22.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005705927-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT

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

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

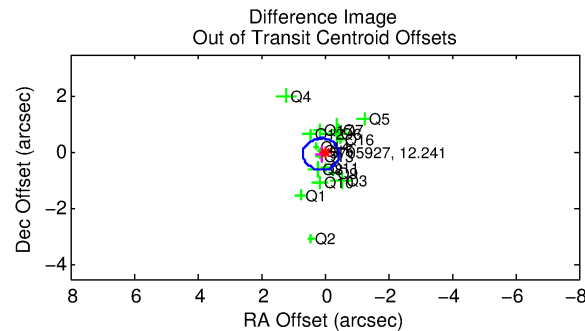
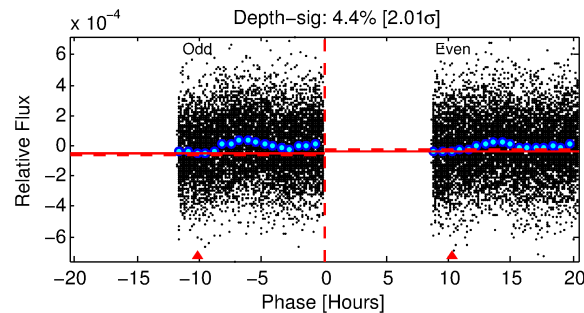
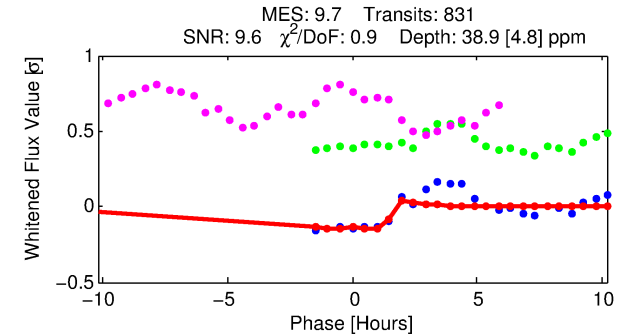
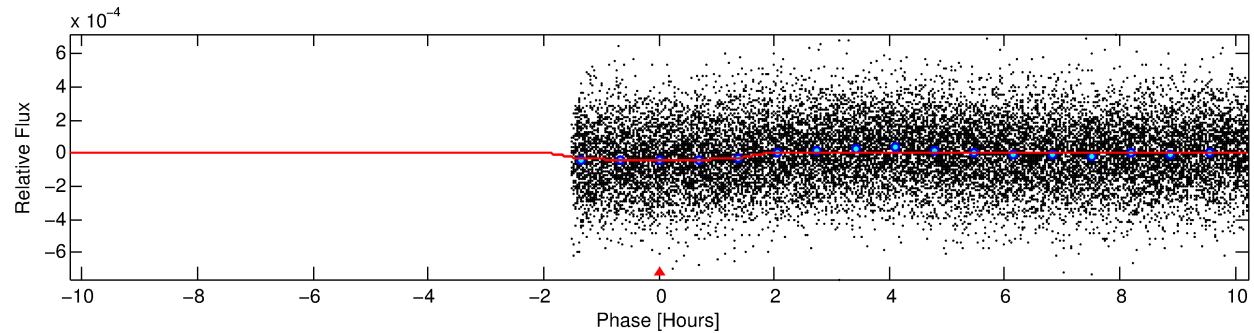
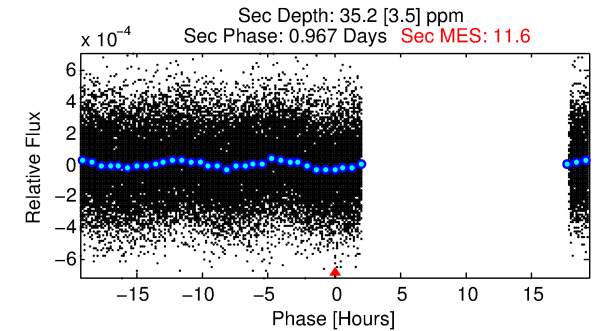
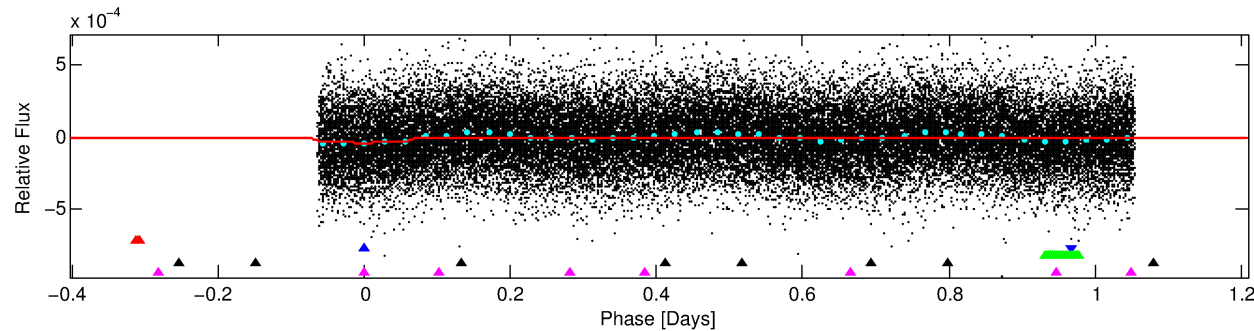
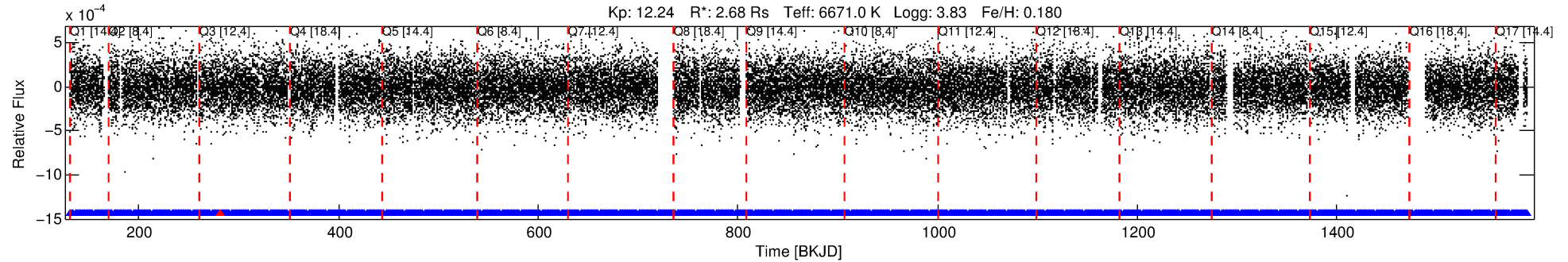
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005705927-02

No Significant Match Found

DV One-Page Summary

KIC: 5705927 Candidate: 2 of 5 Period: 1.612 d



DV Fit Results:

Period = 1.61235 [0.00001] d
Epoch = 131.6248 [0.0047] BKJD
Rp/R* = 0.0068 [0.0028]
a/R* = 1.78 [2.97]
b = 0.92 [0.43]
Seff = 12063.63 [4294.15]
Teq = 2672 [238] K
Rp = 1.98 [0.96] Re
a = 0.0325 [0.0074] AU
Ag = 5.22 [4.71] [0.90σ]
Teffp = 6245 [1298] K [2.71σ]

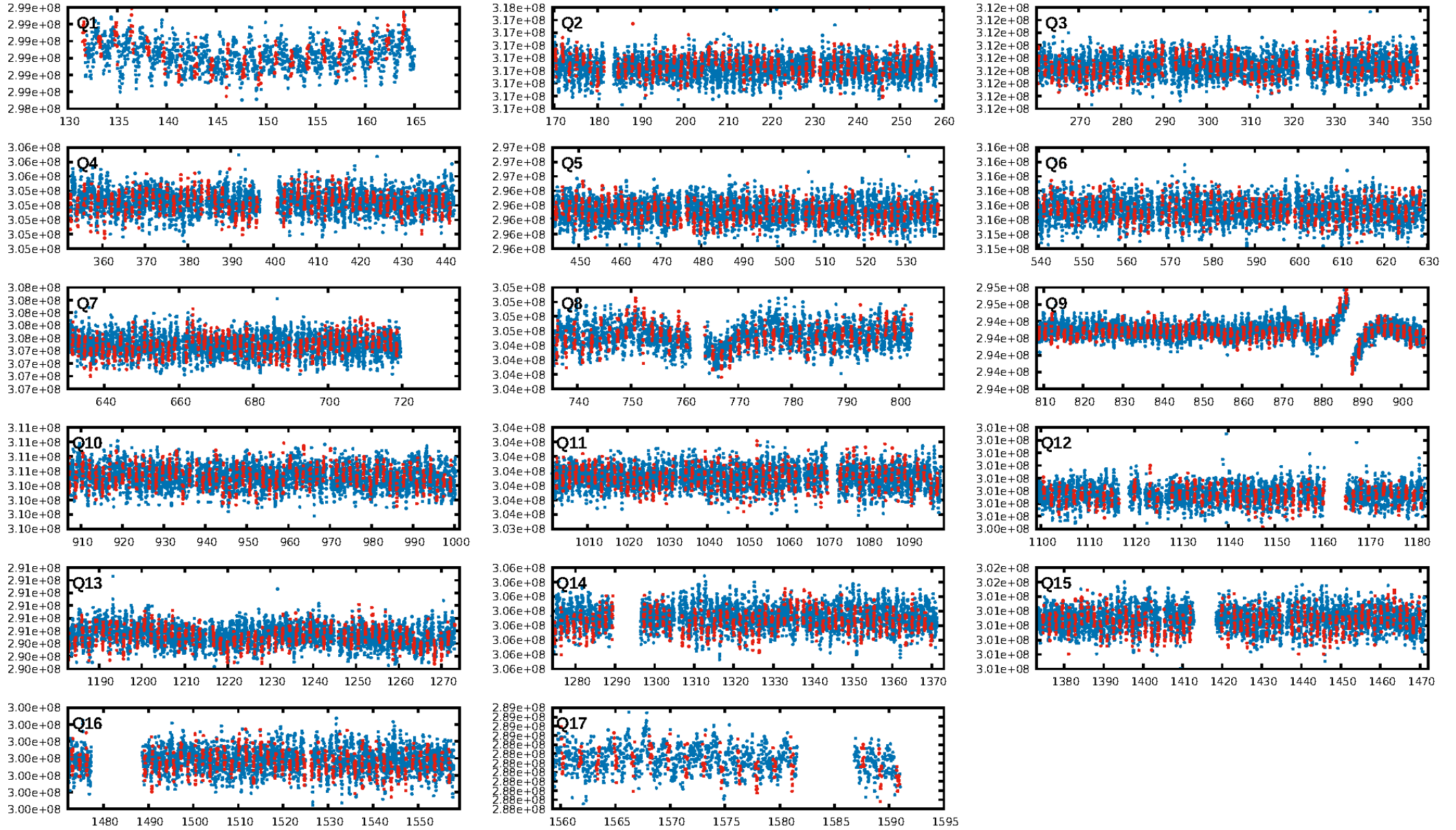
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00σ]
LongPeriod-sig: 100.0% [608.21σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.62e-14
RollingBand-fgt: 1.00 [792/793]
GhostDiagnostic-chr: 6.513
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.127 arcsec [0.68σ]
KicOffset-rm: 0.111 arcsec [0.56σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.82 [14/17]
DiffImageOverlap-fno: 0.00 [0/17]

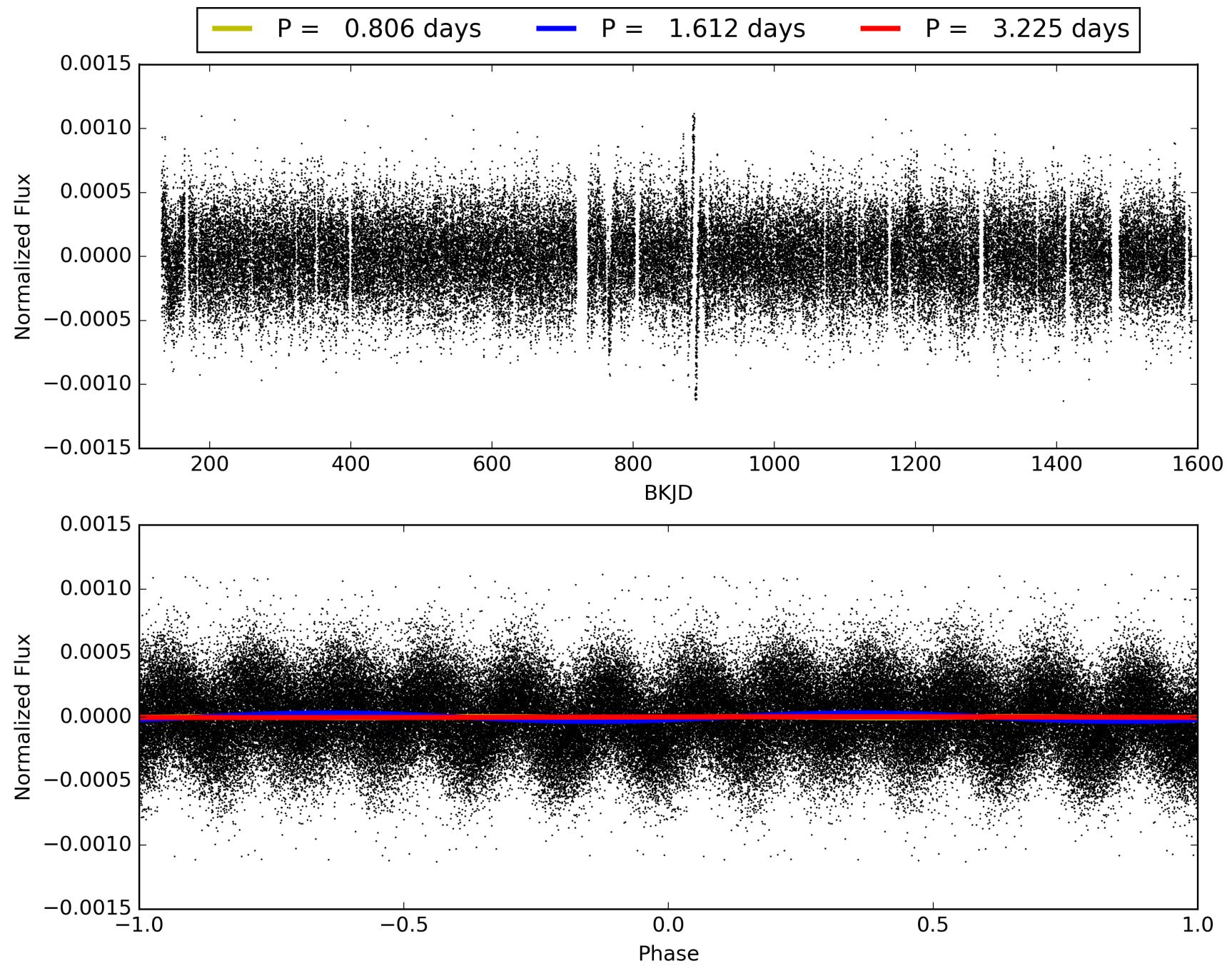
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005705927-02, PDC Light Curves

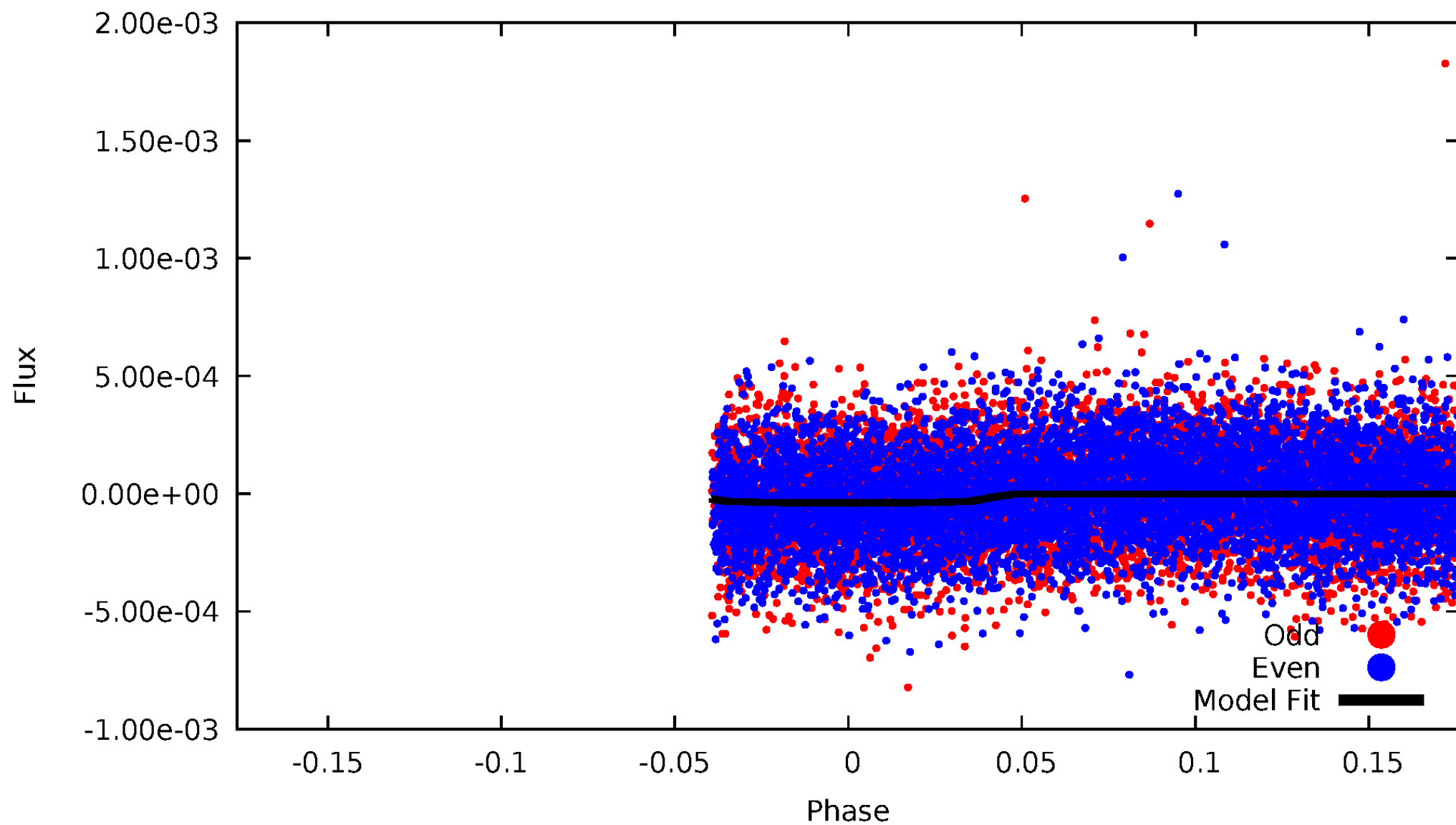


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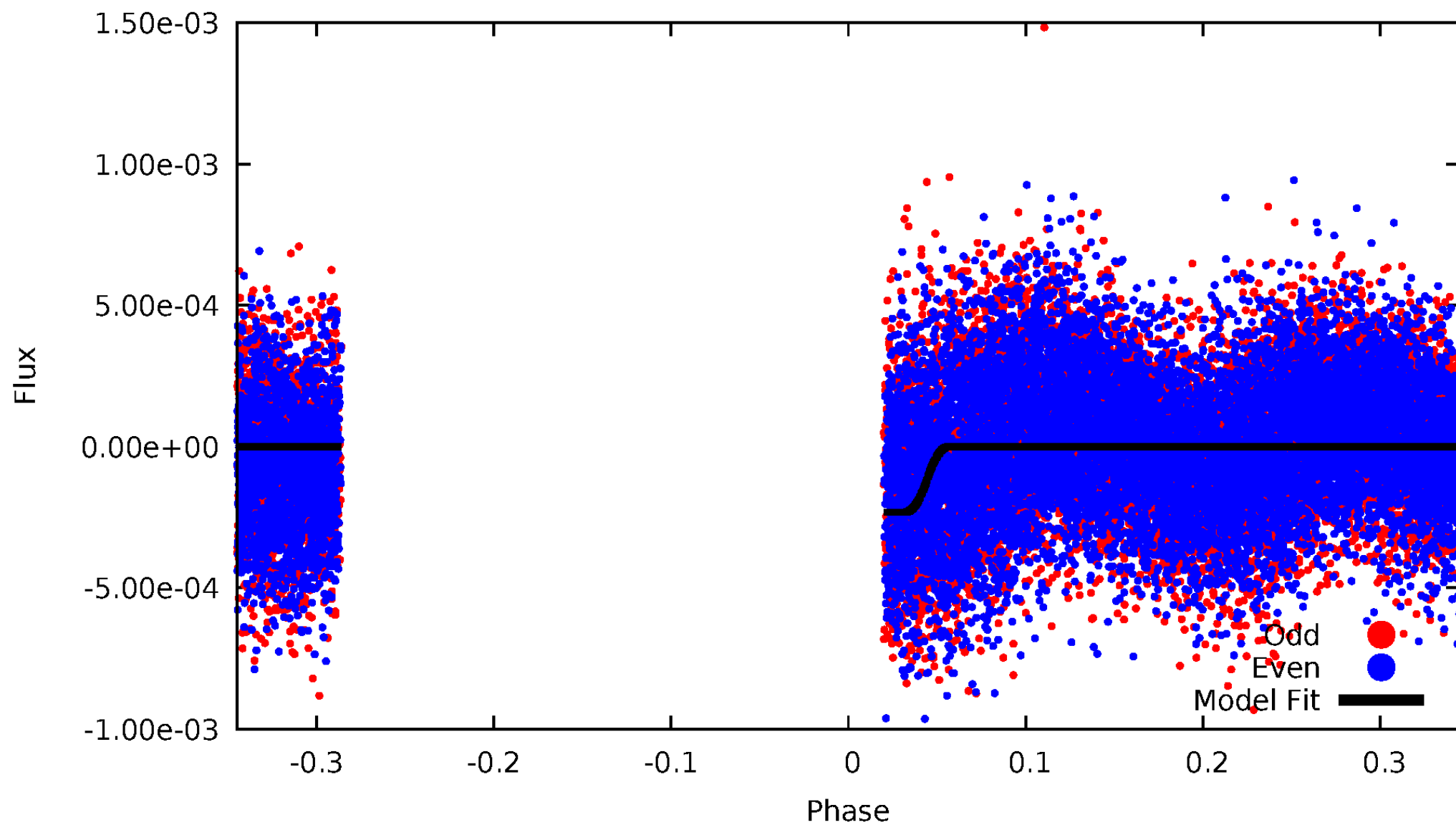
DV Odd/Even

TCE 005705927-02



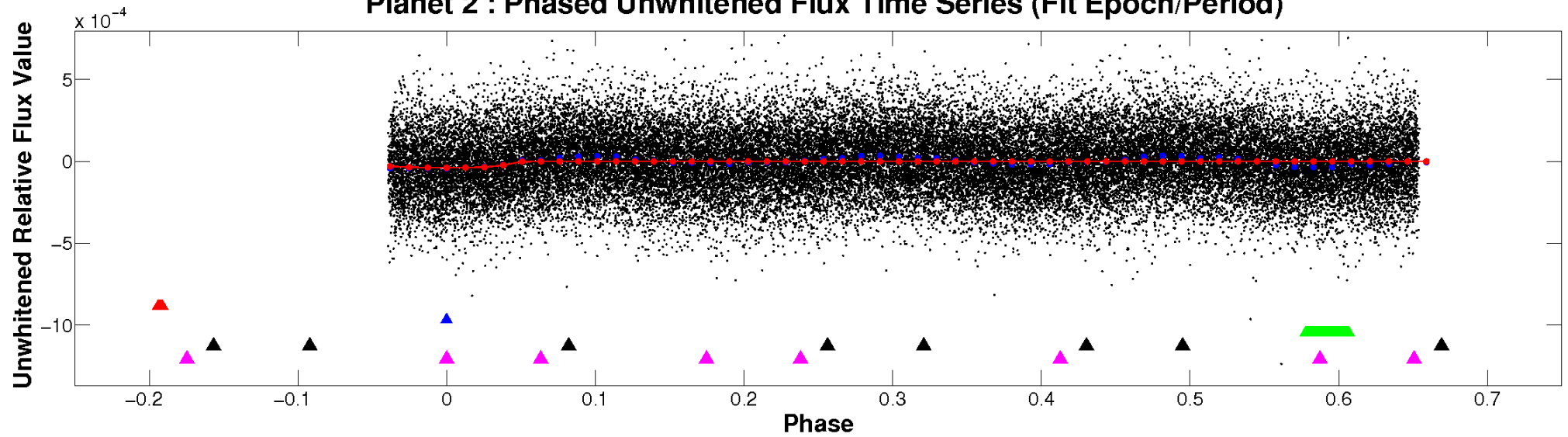
ALT Odd/Even

TCE 005705927-02

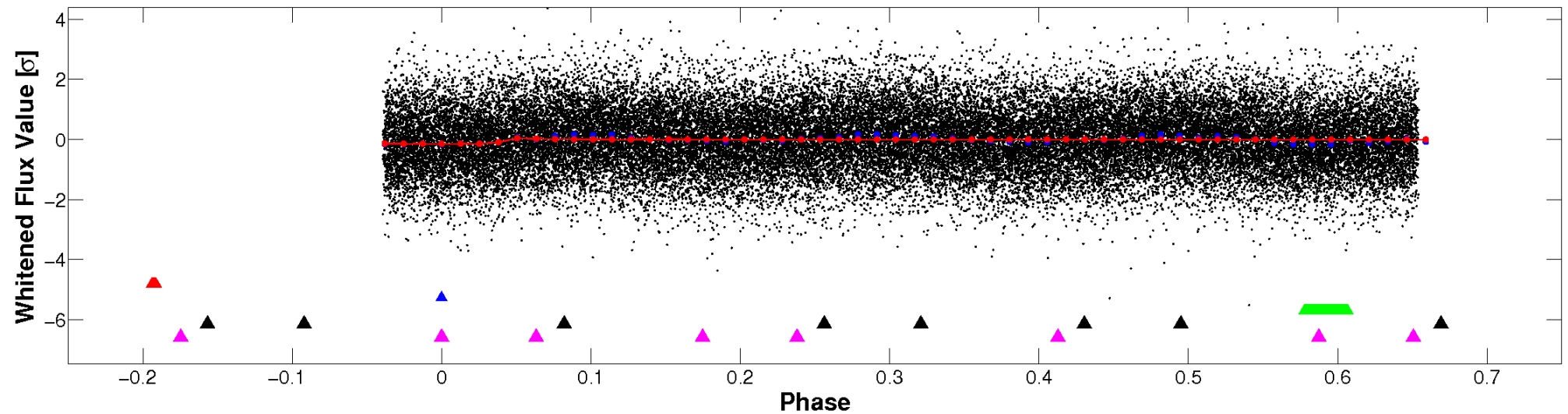


Non-Whitened Vs. Whitened Light Curve

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

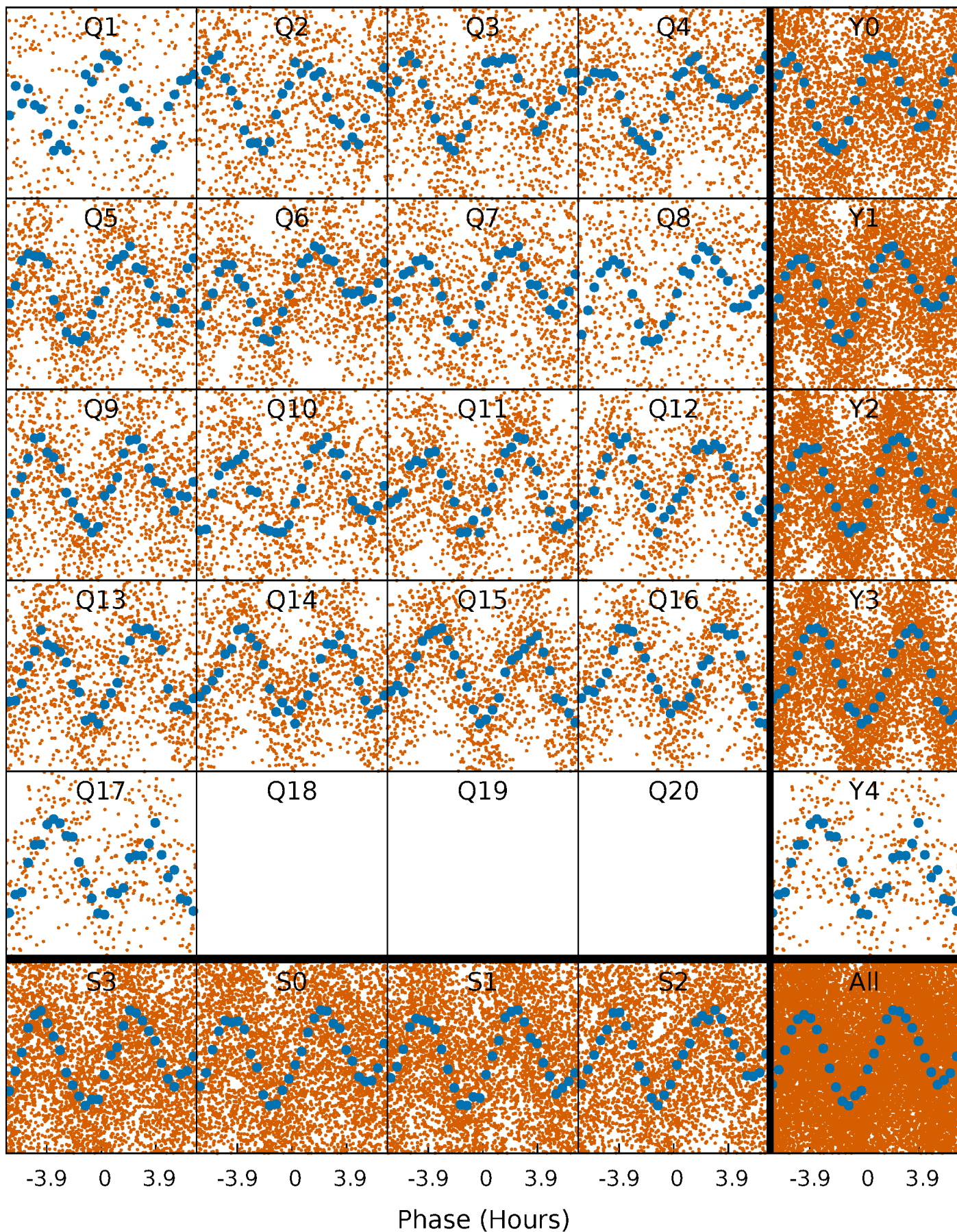


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



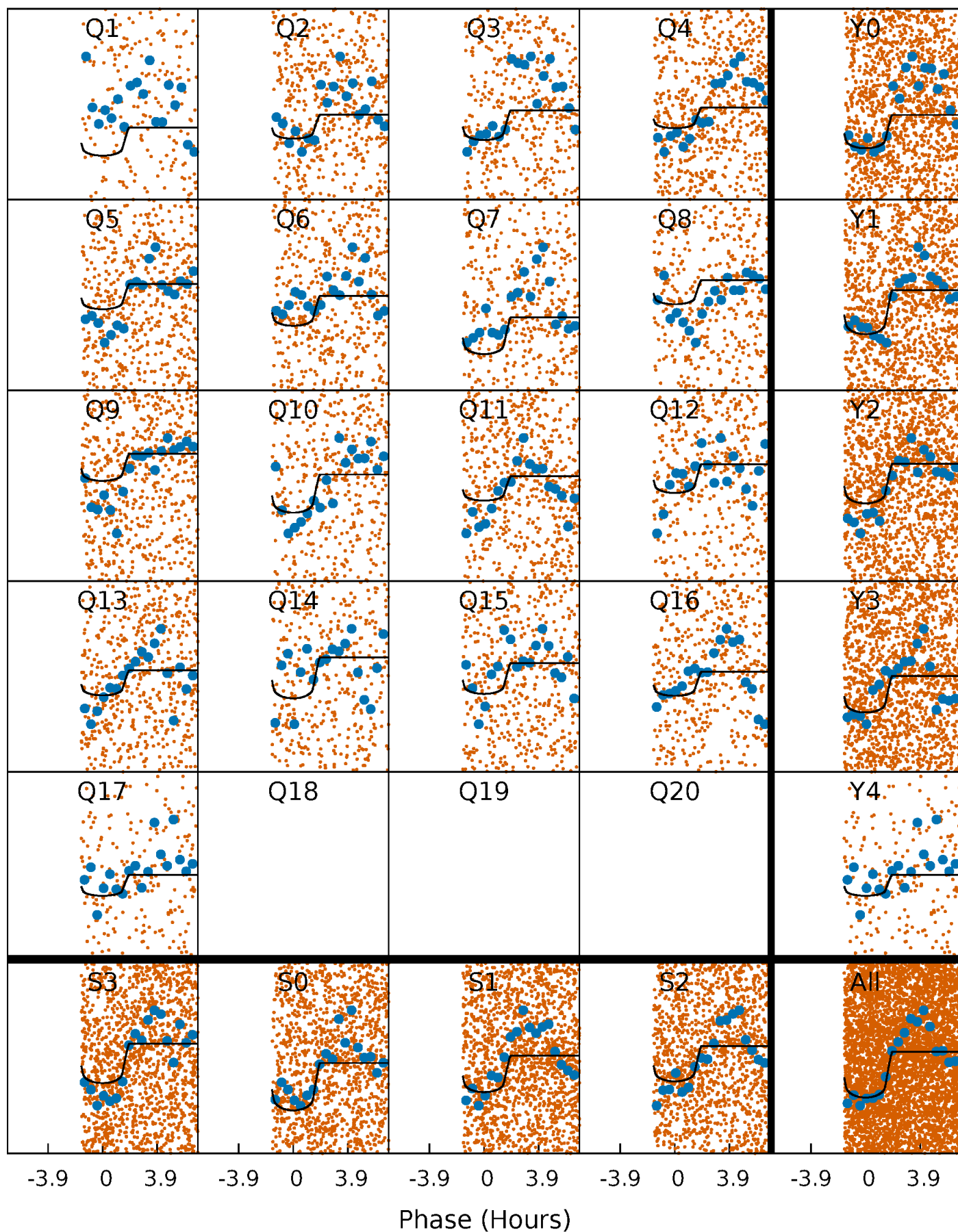
PDC Quarter-Phased Transit Curves

TCE 005705927-02 P= 1.612350 Days $T_0=131.624842$ (BKJD)



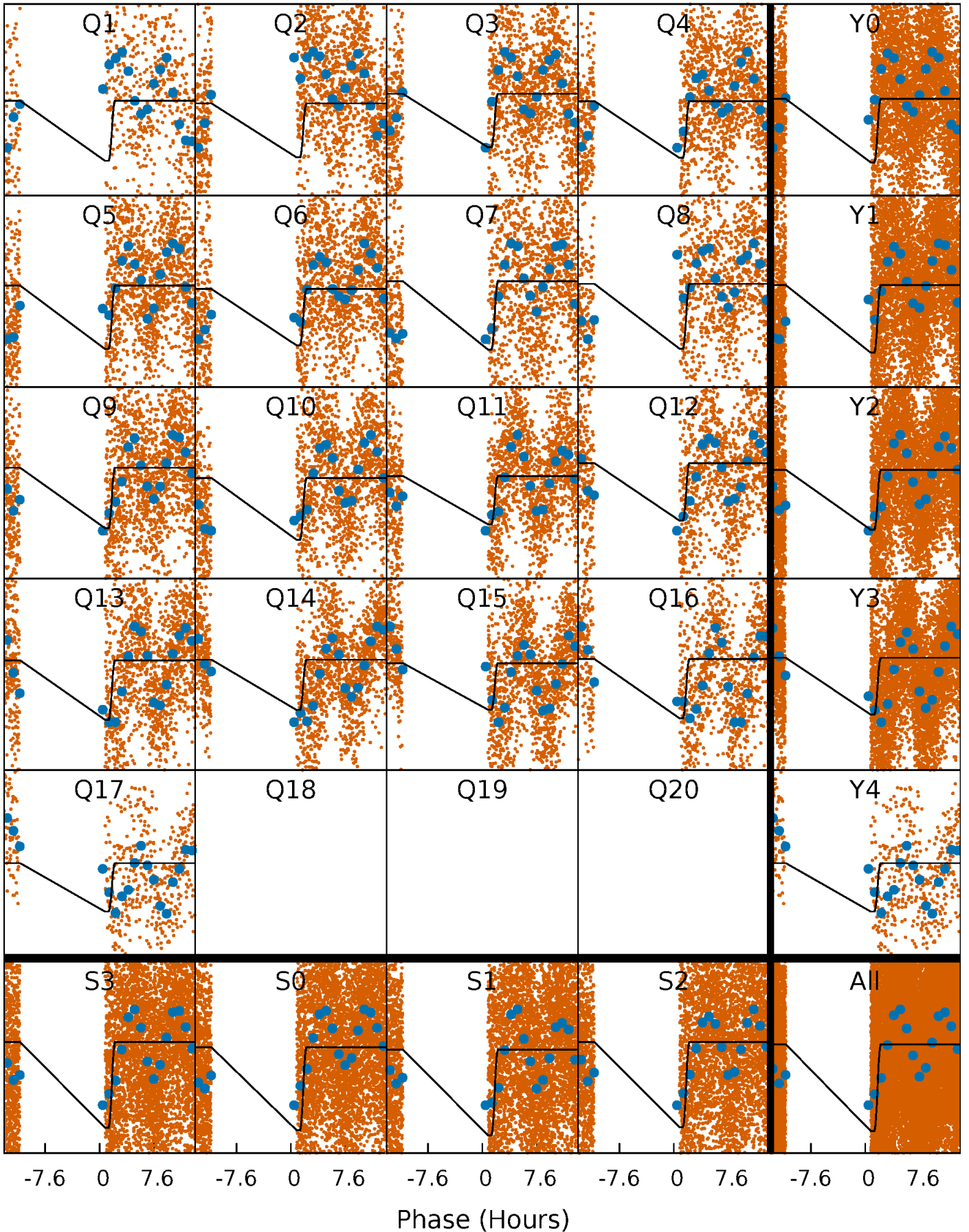
DV Quarter-Phased Transit Curves

TCE 005705927-02 $P = 1.612350$ Days $T_0 = 131.624842$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

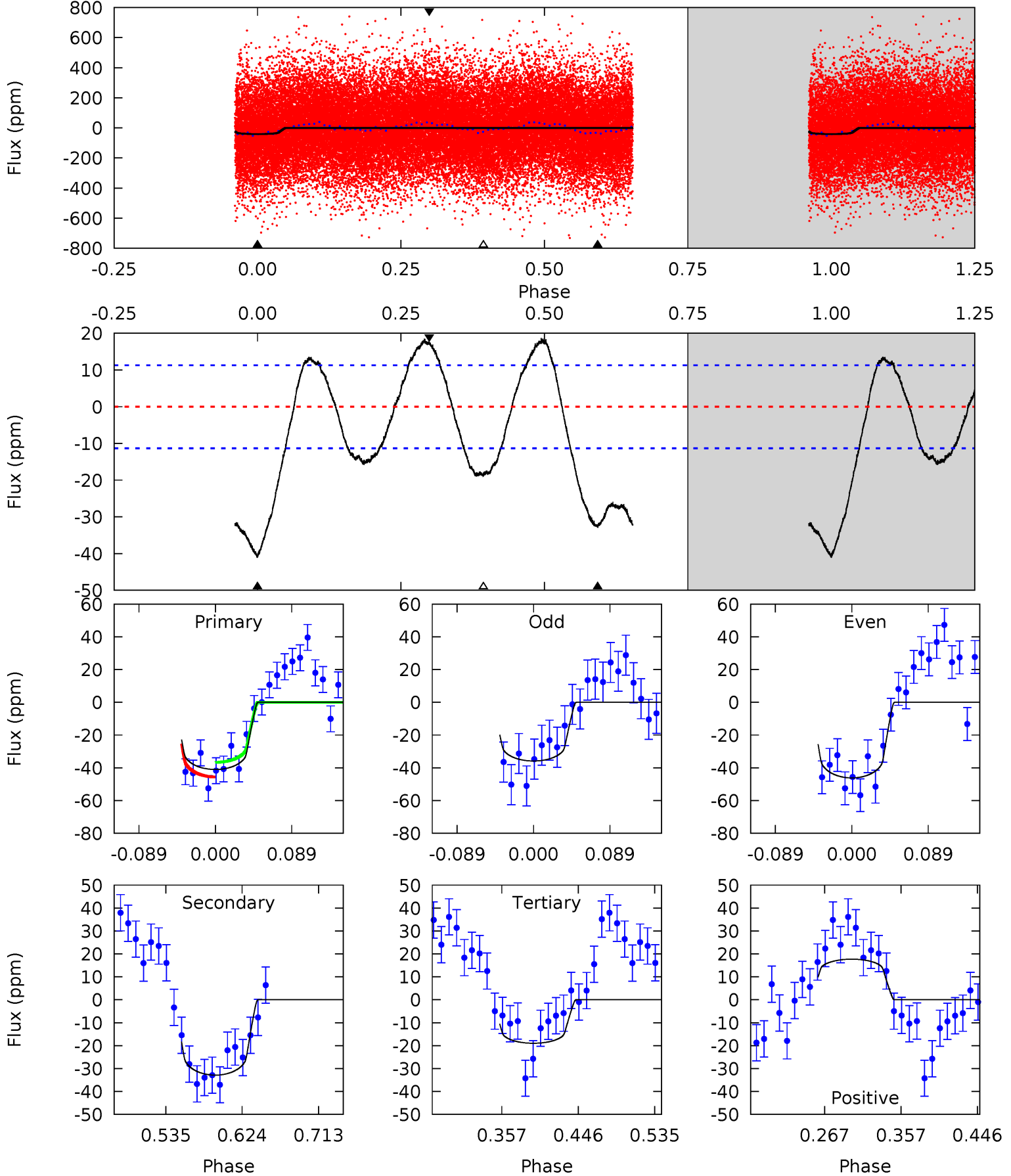
TCE 005705927-02 P= 1.612351 Days $T_0=131.528691$ (BKJD)



DV Model-Shift Uniqueness Test

005705927-02, P = 1.612350 Days, E = 130.012492 Days

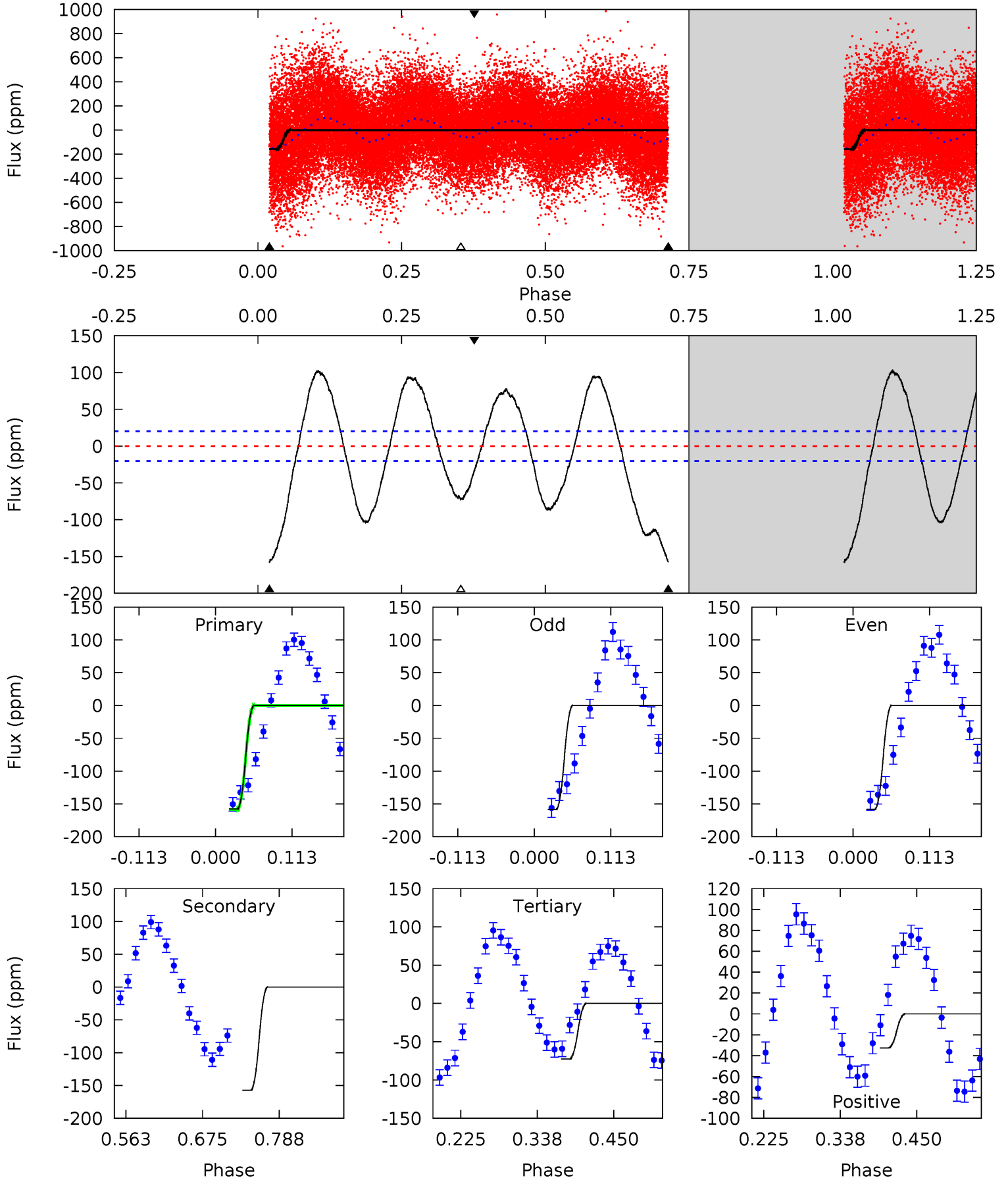
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.6	13.3	7.70	7.18	4.59	1.70	4.97	8.95	9.47	5.64	6.16	2.10	1.00	0.31	1.79



Alt Model-Shift Uniqueness Test

005705927-02, P = 1.612351 Days, E = 131.528691 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
35.2	35.2	16.2	-7.29	4.54	1.59	13.7	19.0	42.5	18.9	42.5	0.04	0.98	0.40	0



Stellar Parameters For KIC 005705927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$\rho_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6671^{+73}_{-86}	$3.827^{+0.201}_{-0.108}$	$0.180^{+0.150}_{-0.150}$	$2.677^{+0.512}_{-0.682}$	$1.754^{+0.155}_{-0.224}$	$0.129^{+0.135}_{-0.050}$
	+1%/-1%	+5%/-3%	+83%/-83%	+19%/-25%	+9%/-13%	+105%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005705927-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-33 ± 2	$1.88^{+0.91}_{-0.76}$	3710^{+175}_{-229}	6014^{+2159}_{-943}	$5.335^{+10.221}_{-2.878}$
Alt.	-157 ± 4	$4.34^{+0.95}_{-0.92}$	3708^{+182}_{-229}	5932^{+666}_{-466}	$4.855^{+2.800}_{-1.567}$

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

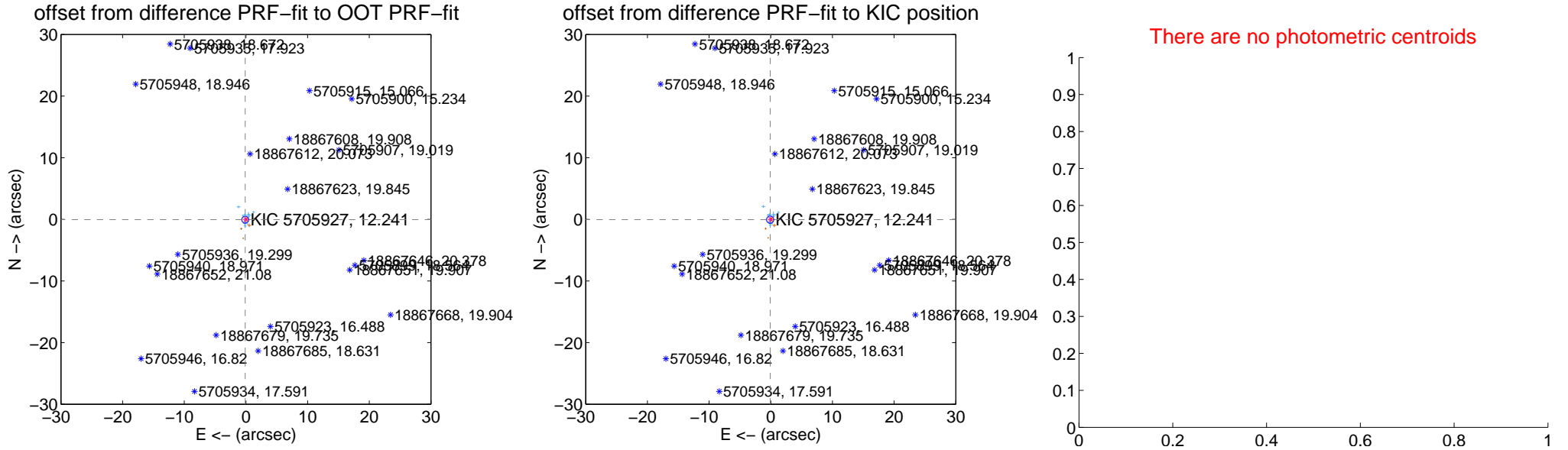
DV Centroid Data

Supplemental centroid analysis for 005705927-02. Kepler magnitude: 12.24. Transit SNR 9.62

There are 14 quarters with good PRF difference image offsets

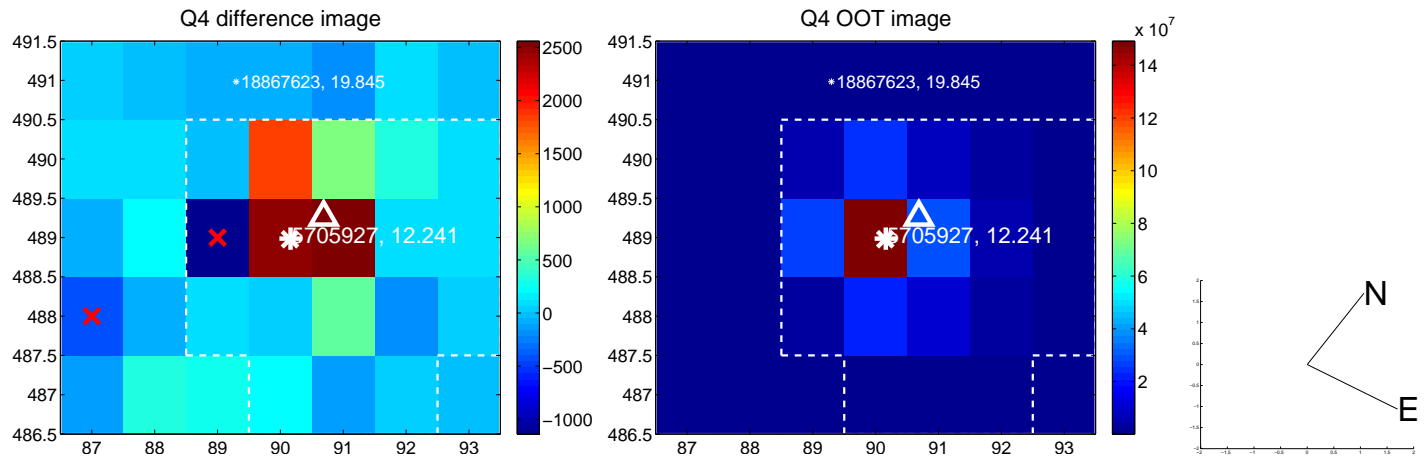
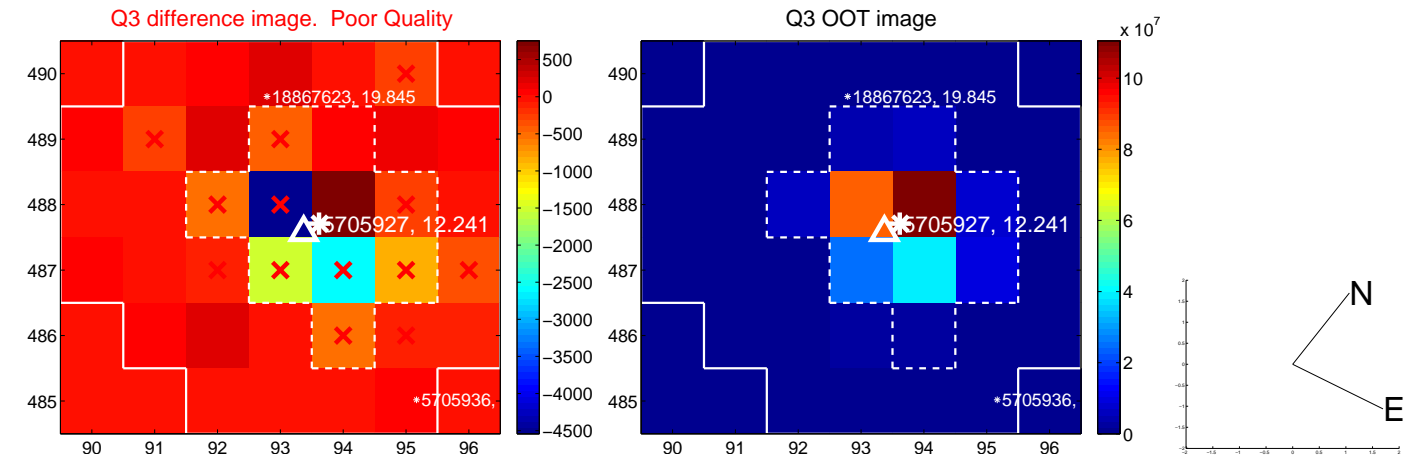
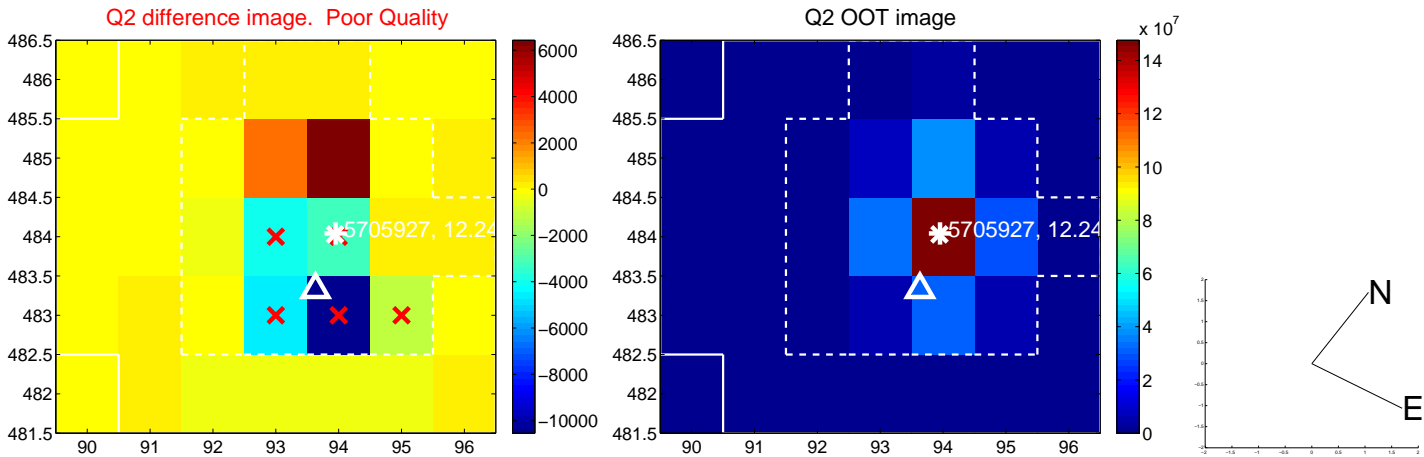
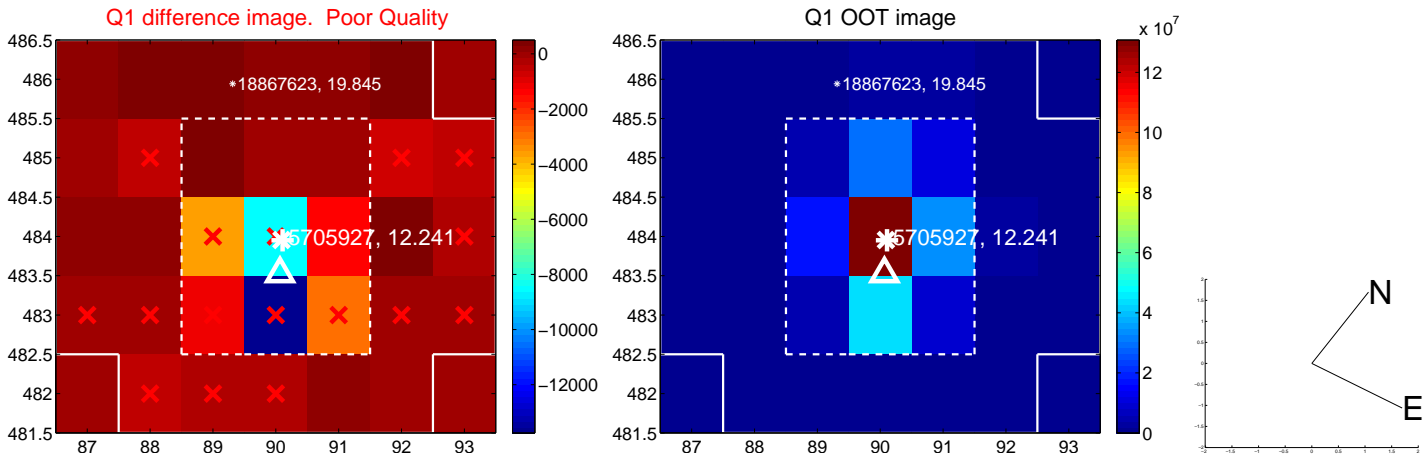
The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.127 ± 0.188	0.68	0.114 ± 0.146	-0.056 ± 0.284
PRF-fit source offset from KIC position	0.111 ± 0.196	0.56	0.097 ± 0.151	-0.053 ± 0.273
photometric centroid source offset	—	—	—	—

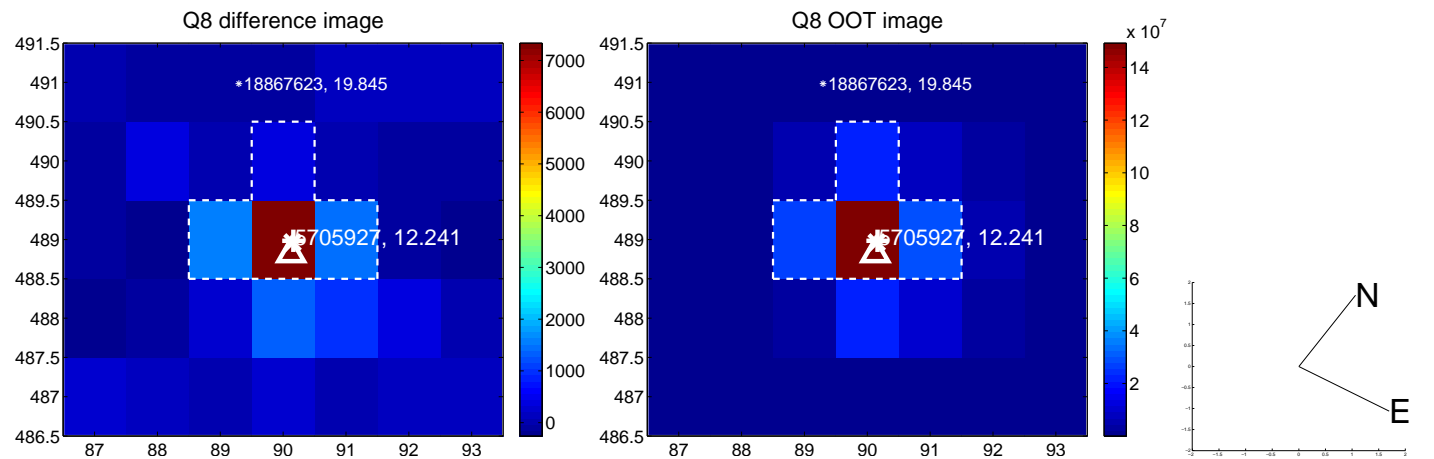
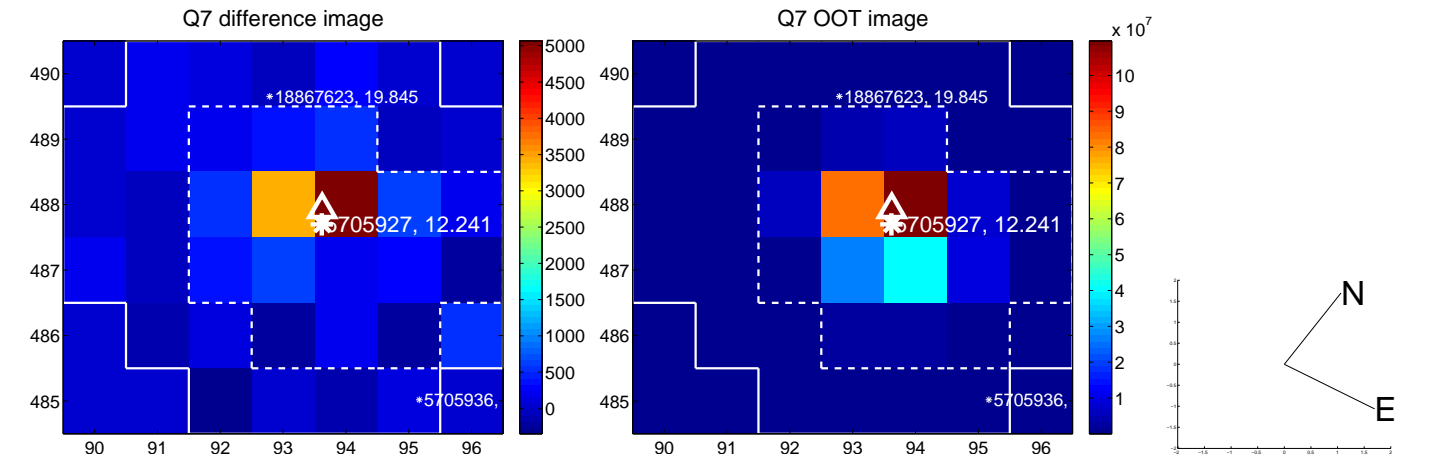
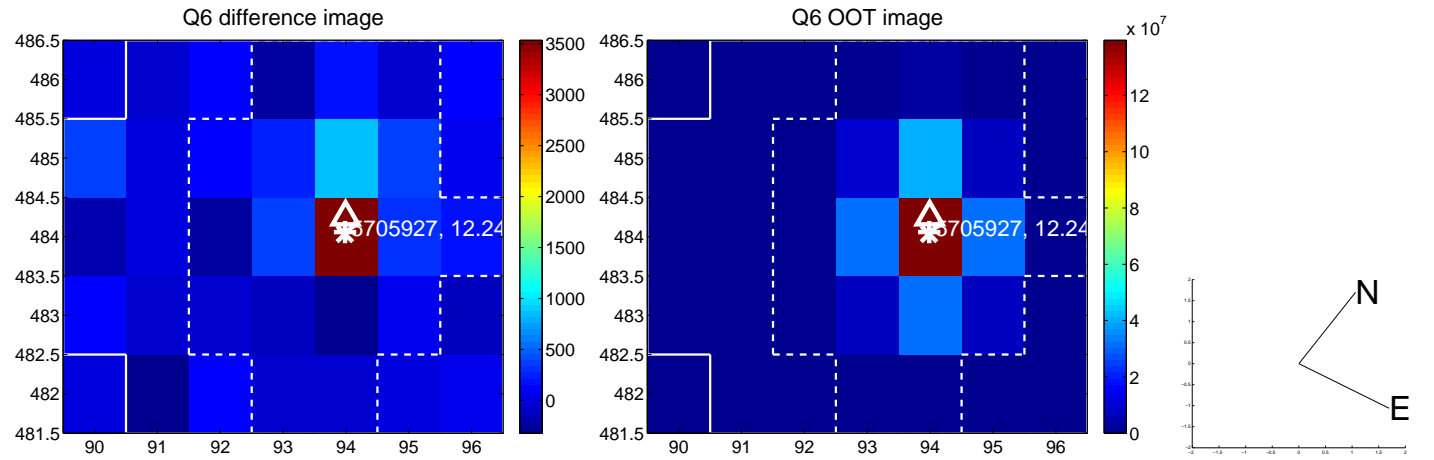
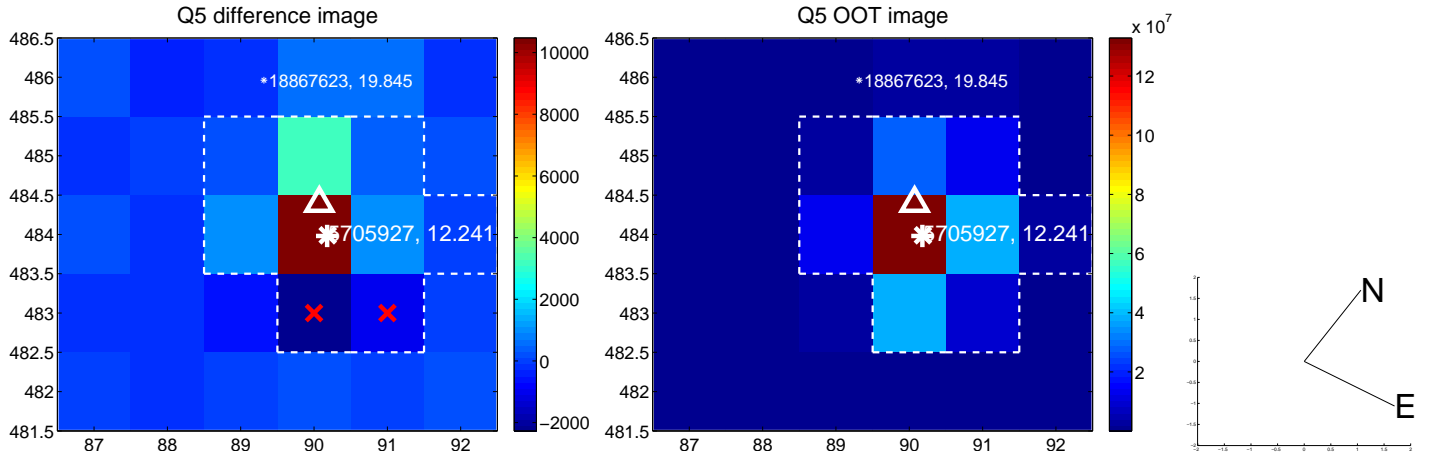


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

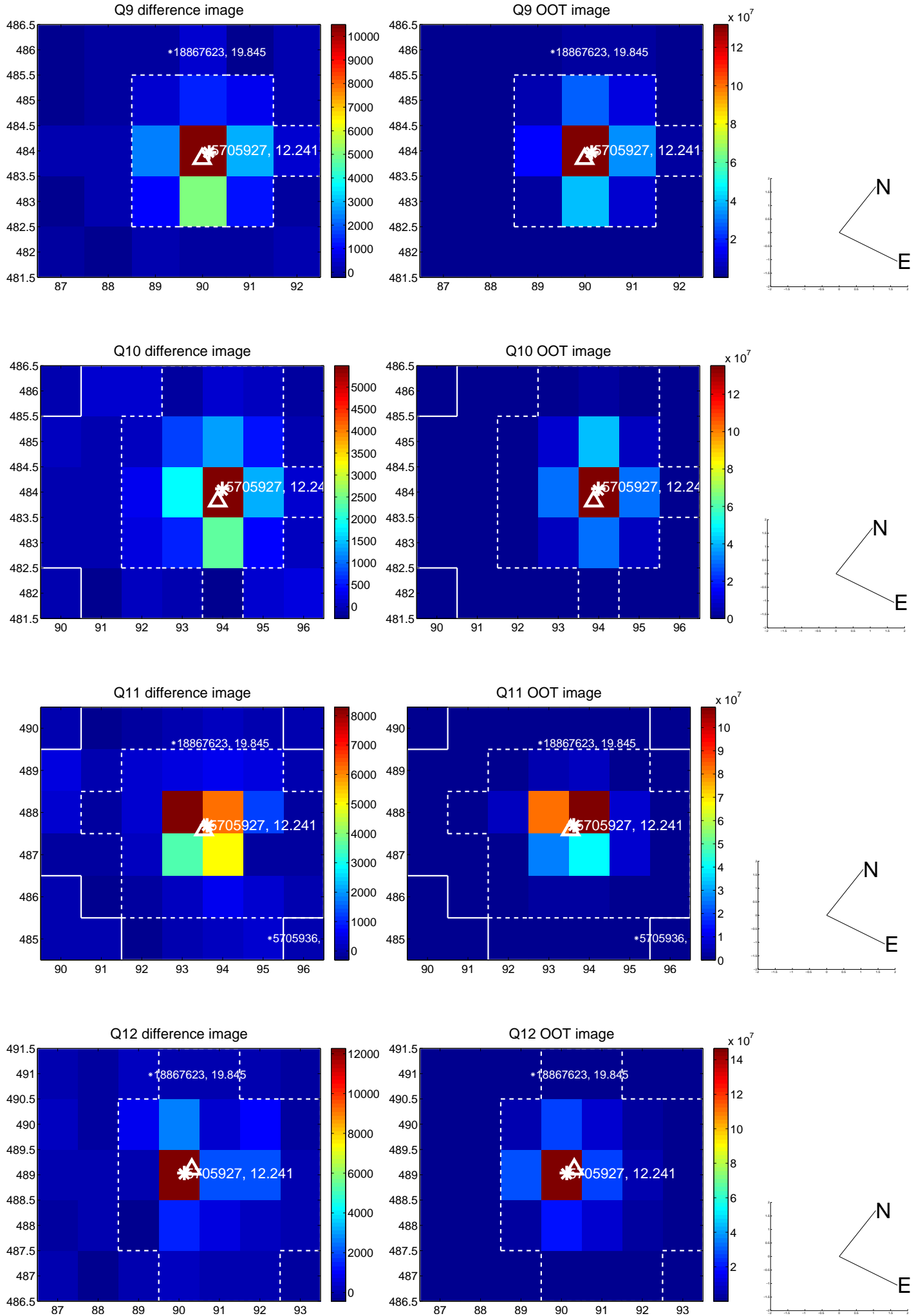
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



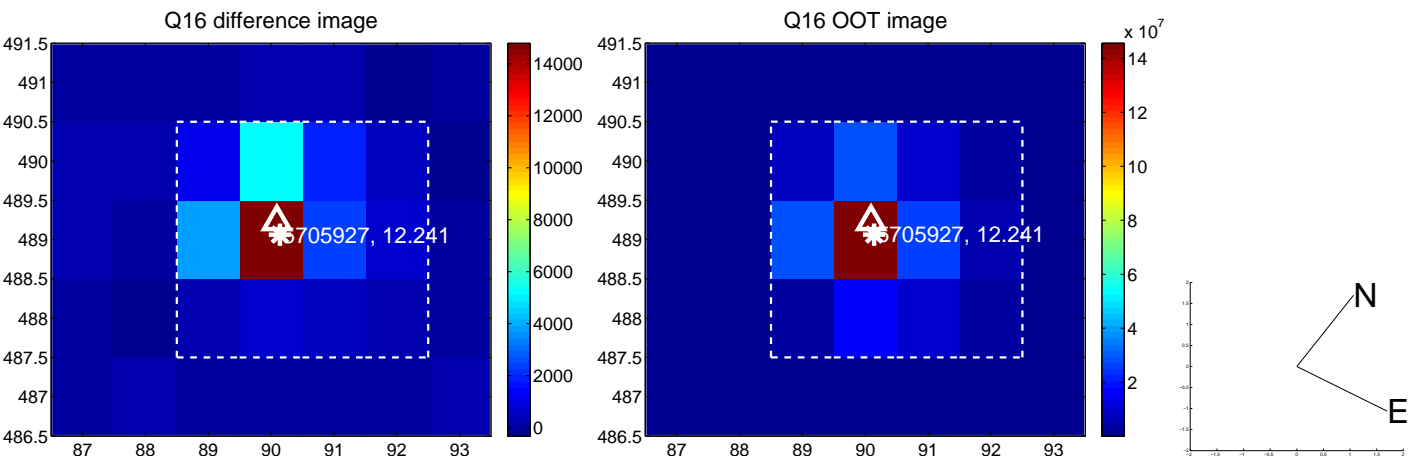
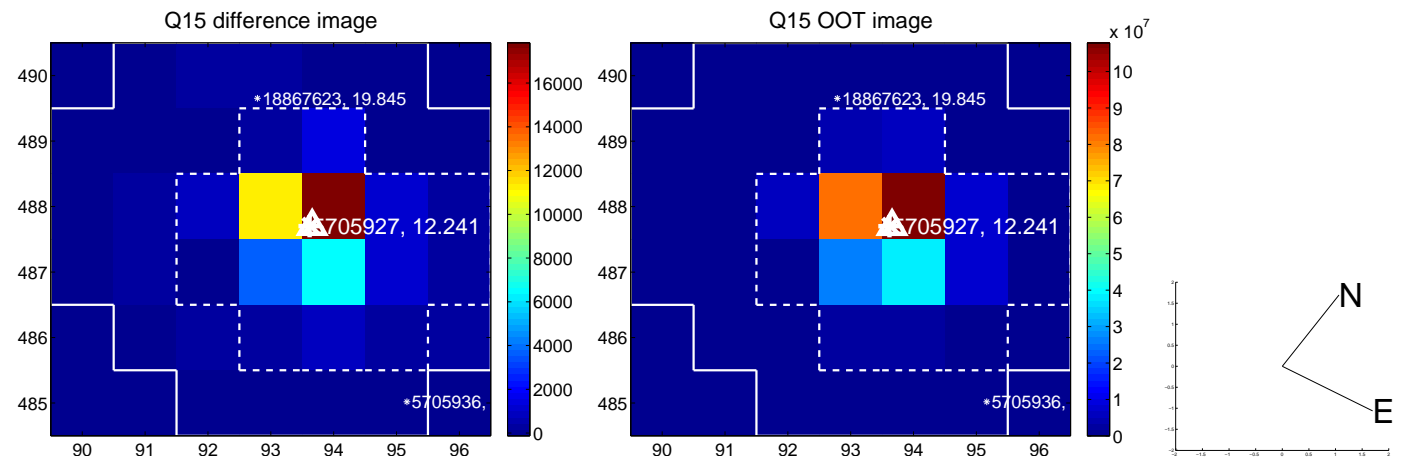
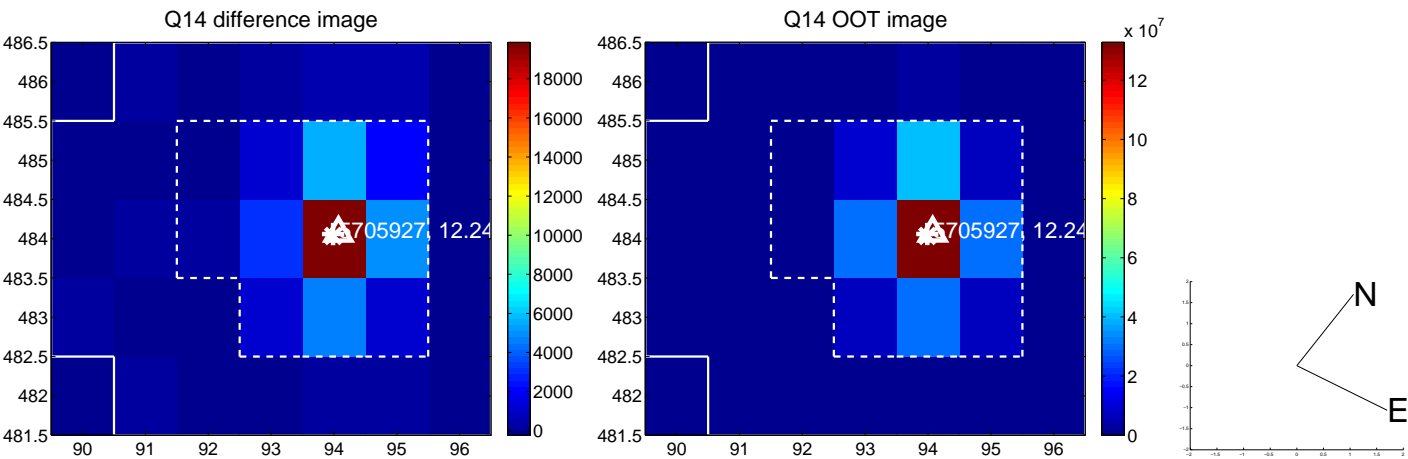
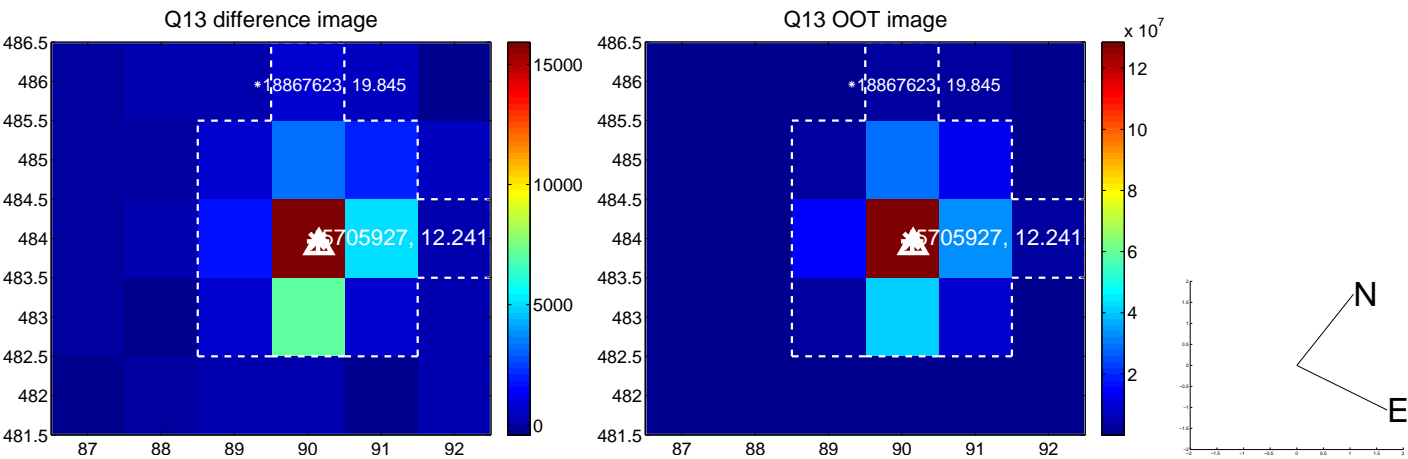
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



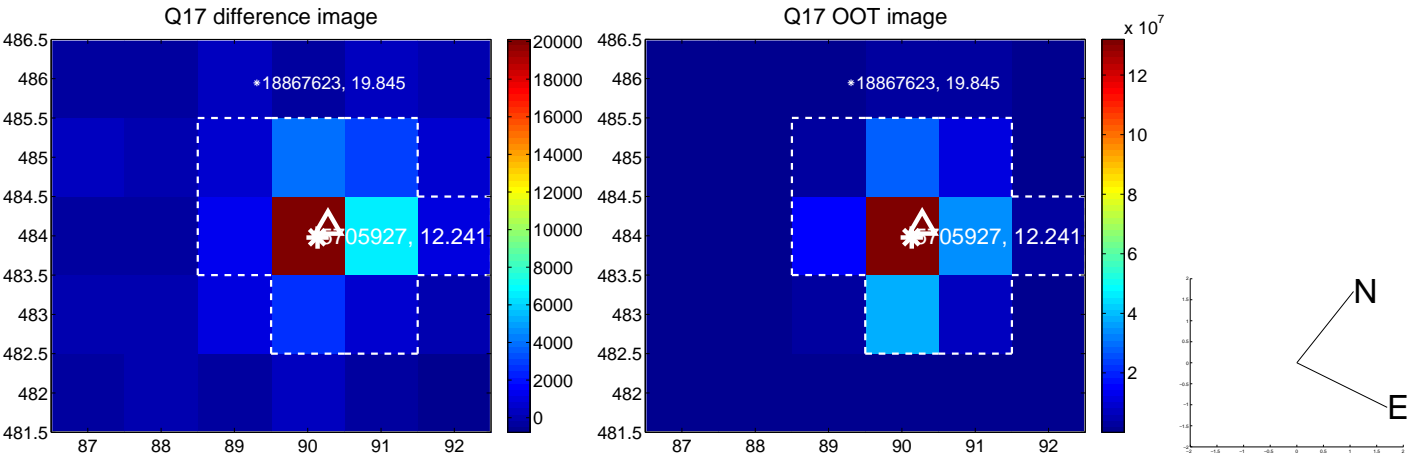
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

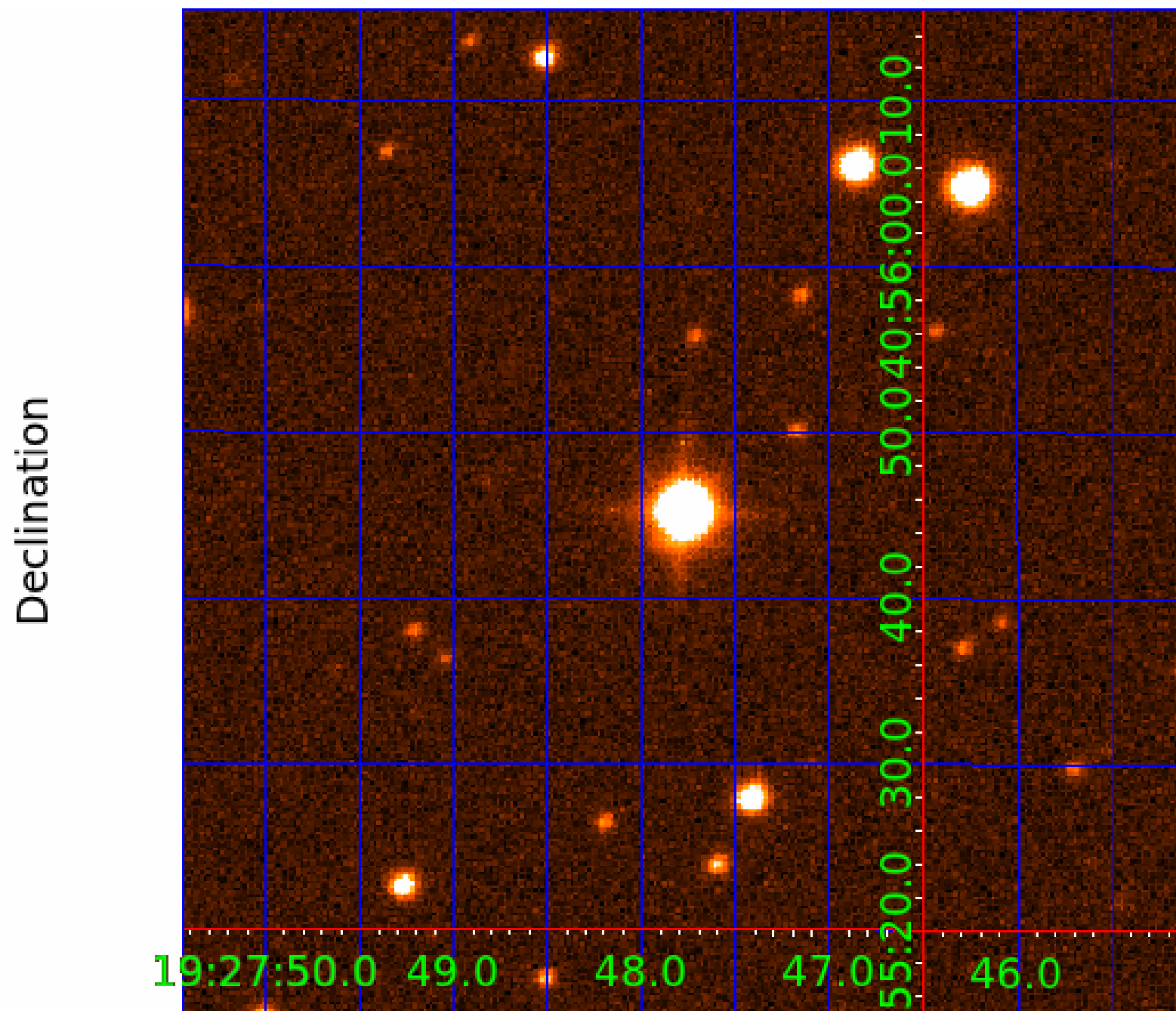


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 005705927

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})
005705927-01	OBS	No	1.612345	132.929104	41.9	3.817	9.3	9.9	2.68	6671	2.03	12063.68
005705927-02	OBS	No	1.612350	131.624842	38.9	3.408	9.7	9.6	2.68	6671	1.98	12063.63
005705927-03	OBS	No	1.612298	132.603138	39.2	3.856	9.6	11.1	2.68	6671	1.99	12064.15
005705927-04	OBS	No	194.428555	135.366996	316.0	8.968	8.1	8.2	2.68	6671	5.12	20.25
005705927-05	OBS	No	181.530205	262.327330	421.2	6.228	8.2	8.3	2.68	6671	6.08	22.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005705927-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT

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

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

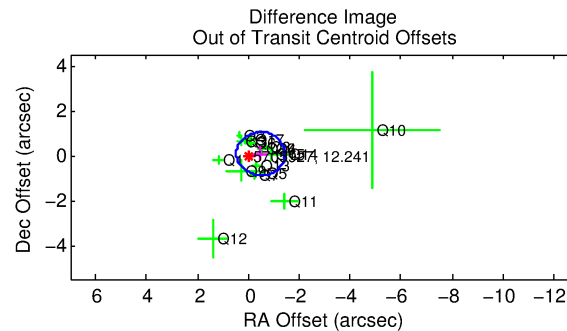
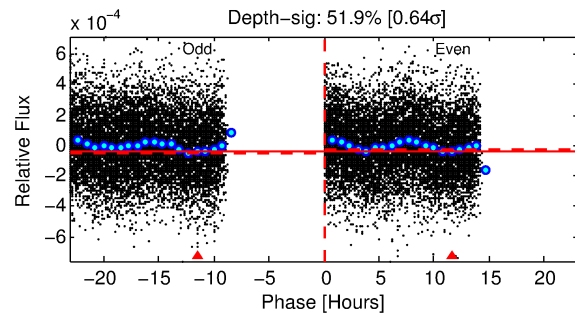
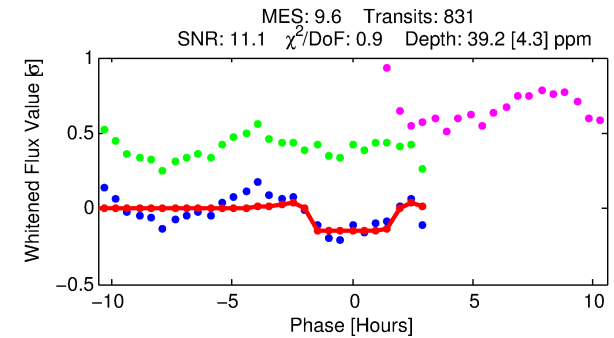
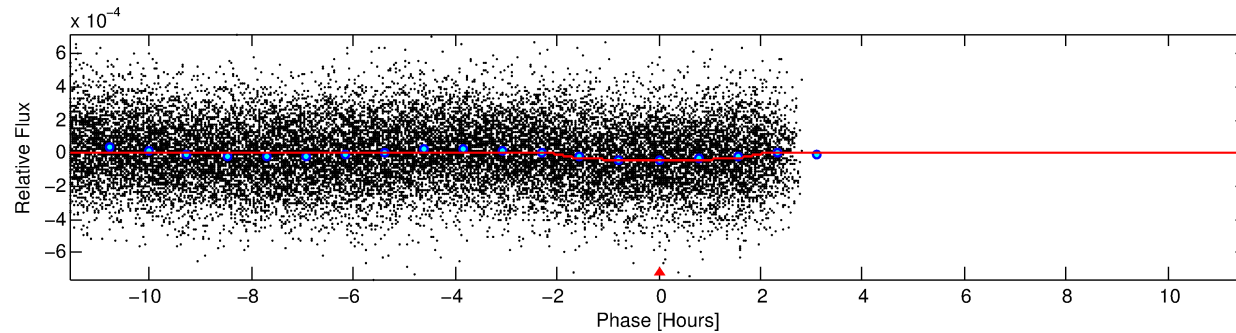
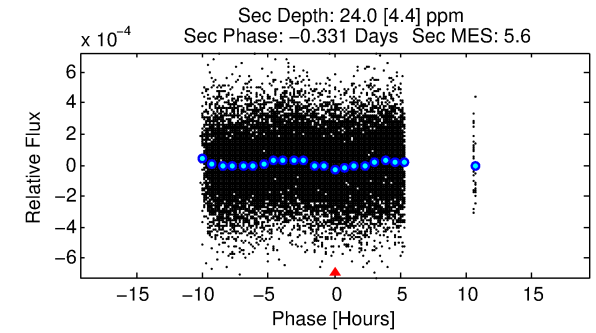
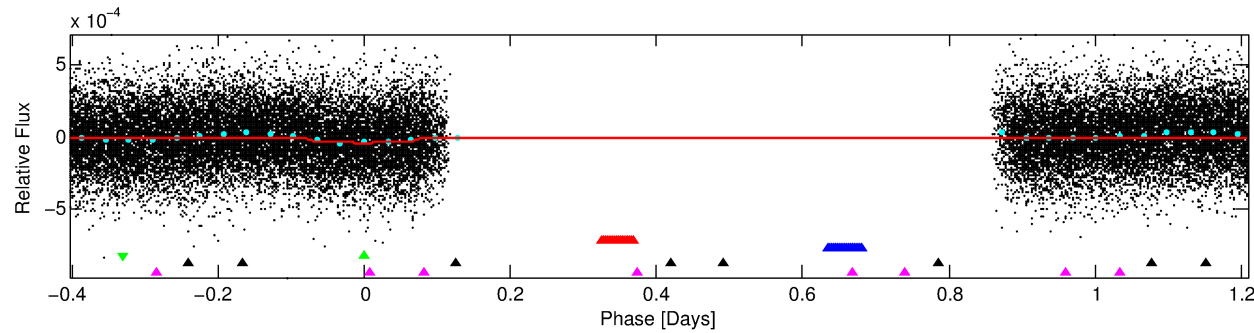
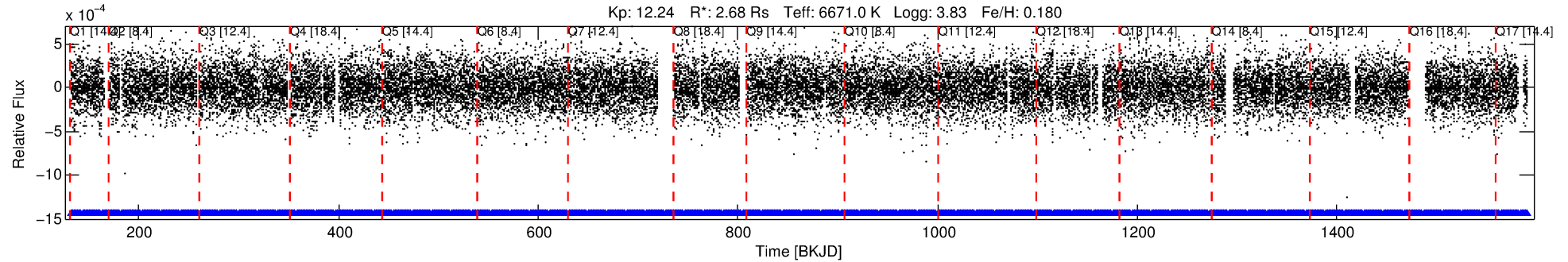
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005705927-03

No Significant Match Found

DV One-Page Summary

KIC: 5705927 Candidate: 3 of 5 Period: 1.612 d



DV Fit Results:

Period = 1.61230 [0.00002] d
Epoch = 132.6031 [0.0032] BKJD
Rp/R* = 0.0068 [0.0018]
a/R* = 1.62 [1.54]
b = 0.92 [0.26]
Seff = 12064.14 [4294.33]
Teff = 2672 [238] K
Rp = 1.99 [0.73] Re
a = 0.0325 [0.0074] AU
Ag = 3.52 [2.32] [1.08σ]
Teffp = 5659 [793] K [3.61σ]

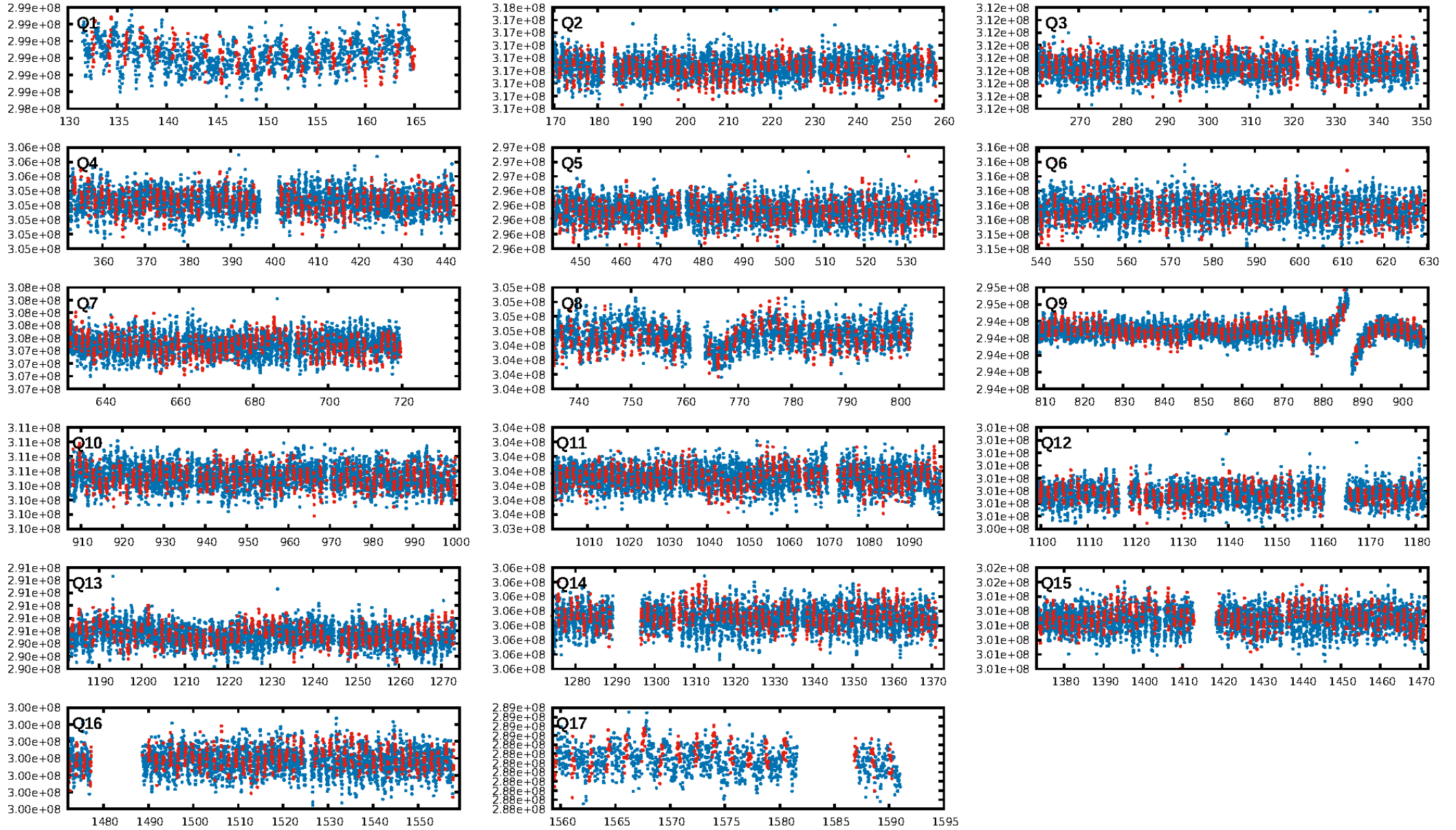
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 4.44e-15
RollingBand-fgt: 1.00 [793/793]
GhostDiagnostic-chr: -16.08
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.489 arcsec [1.53σ]
KicOffset-rm: 0.477 arcsec [1.41σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.59 [10/17]
DiffImageOverlap-fno: 0.00 [0/17]

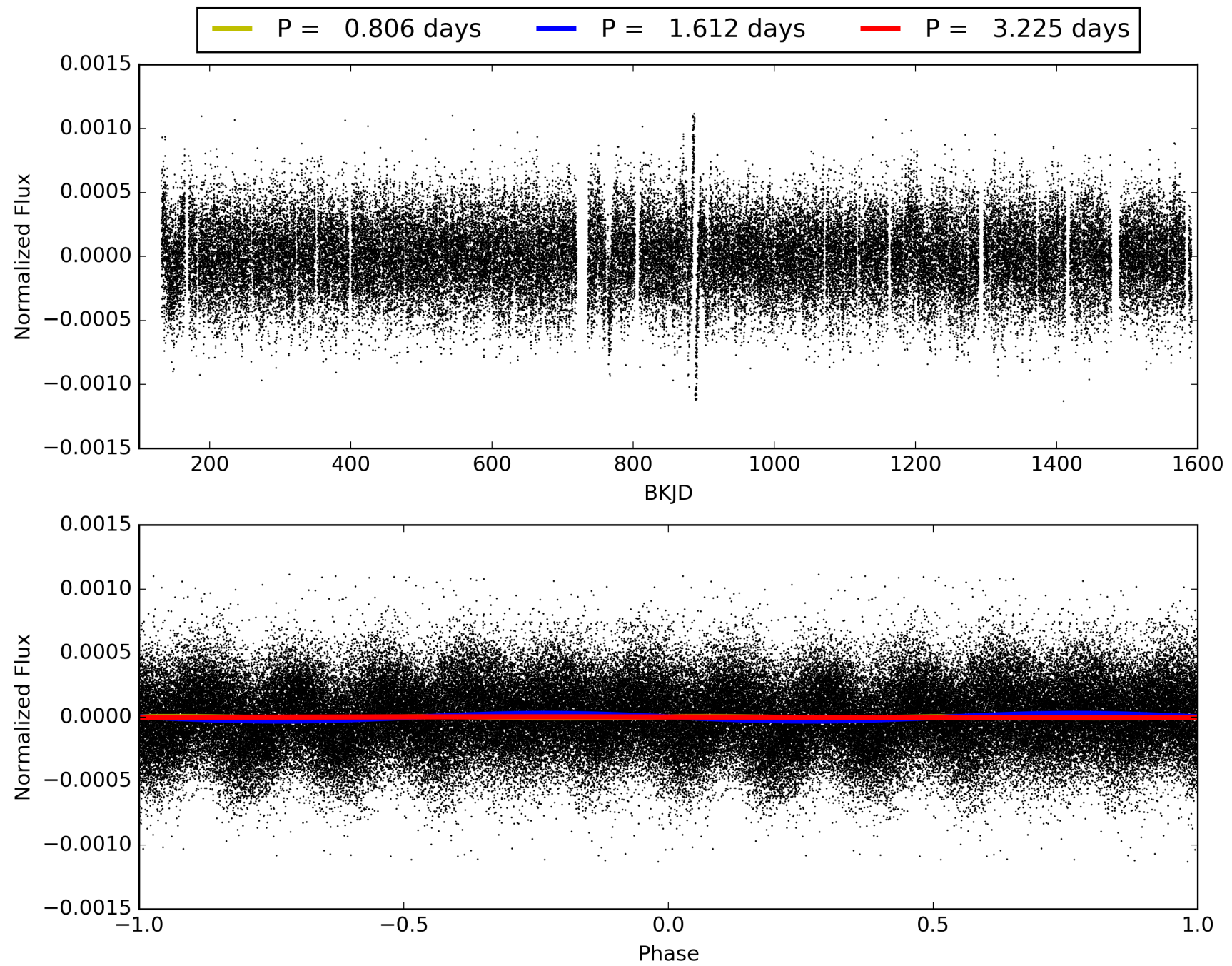
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 04:38:45 Z

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

TCE 005705927-03, PDC Light Curves

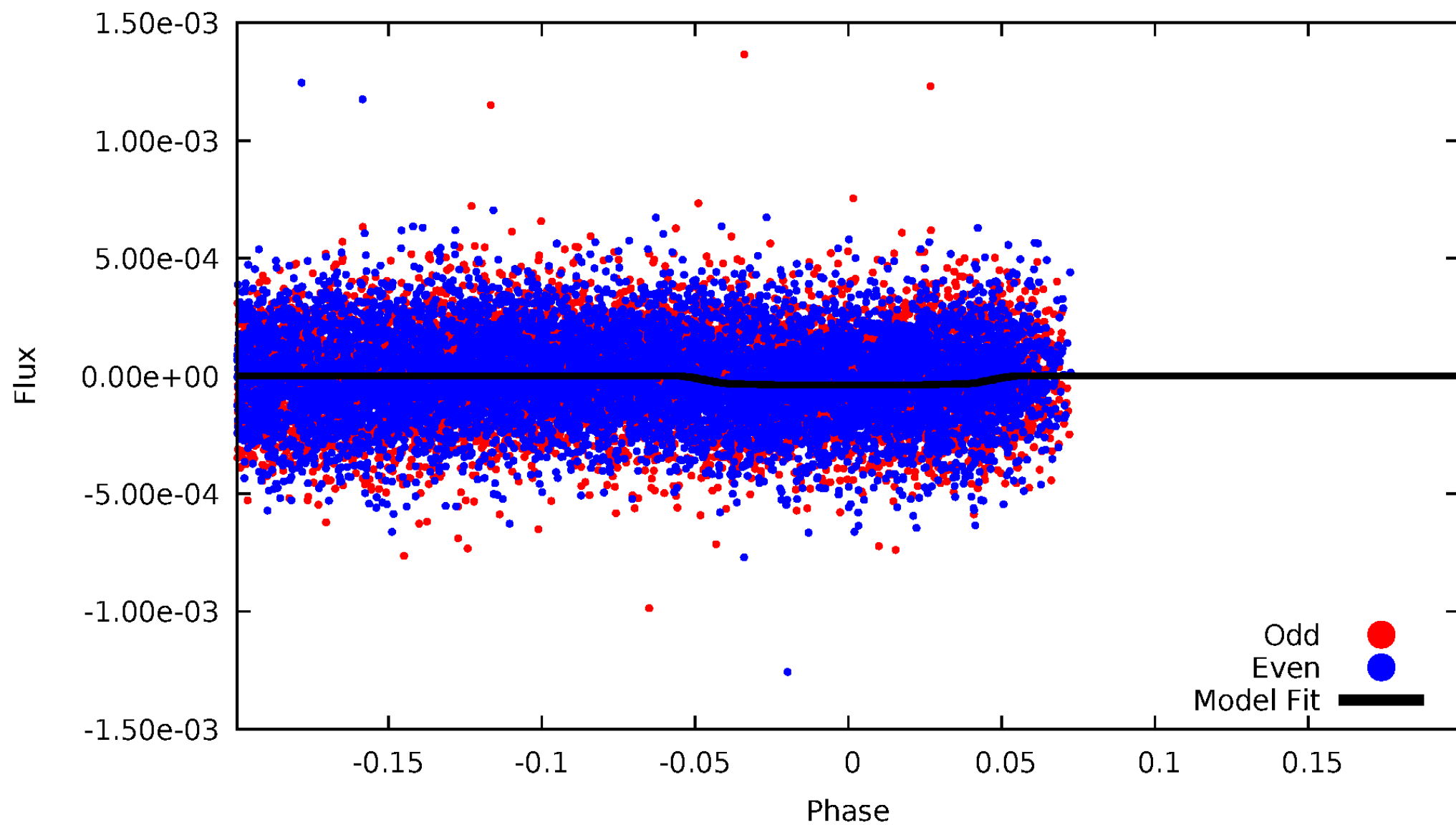


TCE 005705927-03



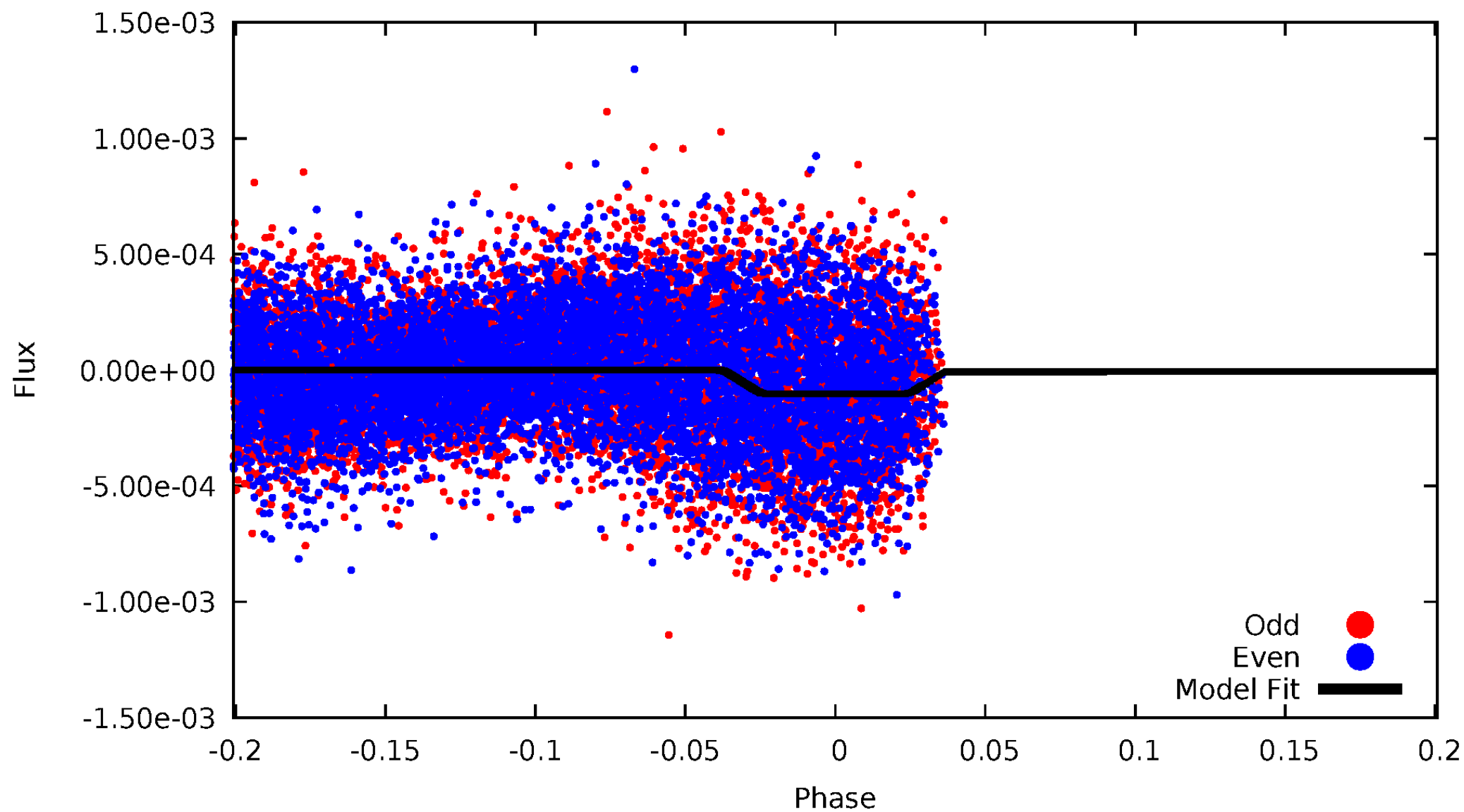
DV Odd/Even

TCE 005705927-03

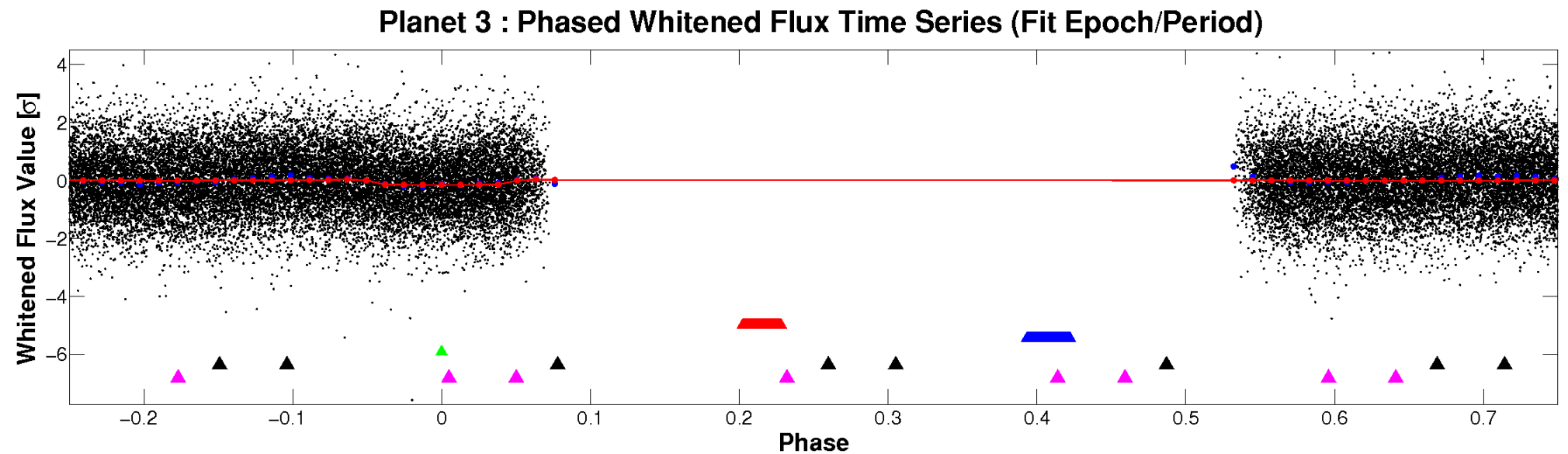
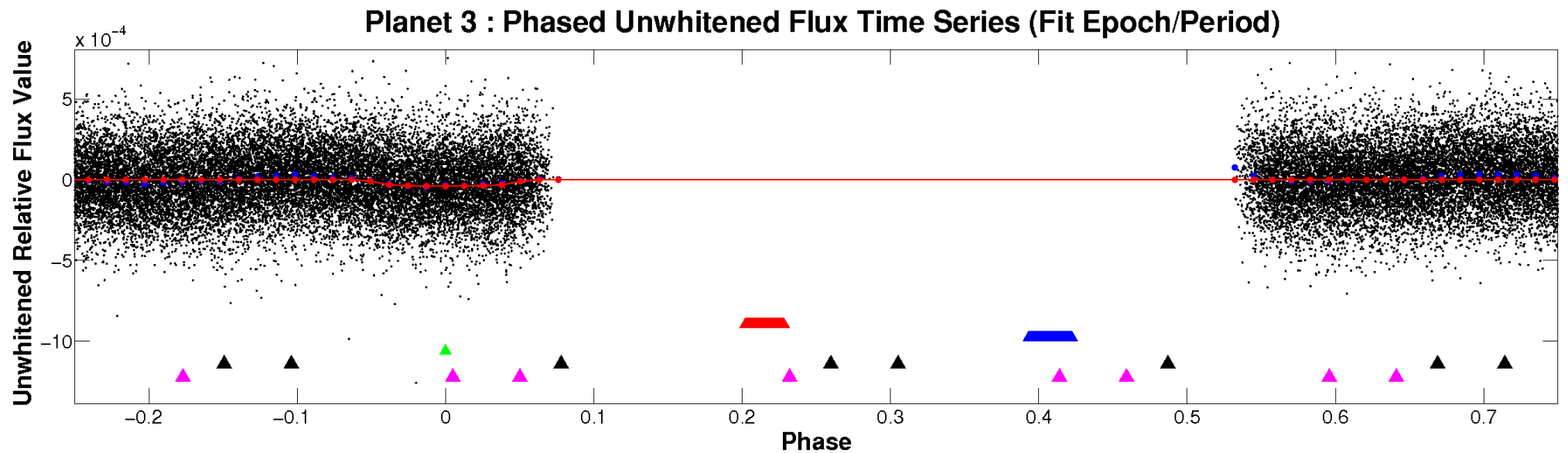


ALT Odd/Even

TCE 005705927-03

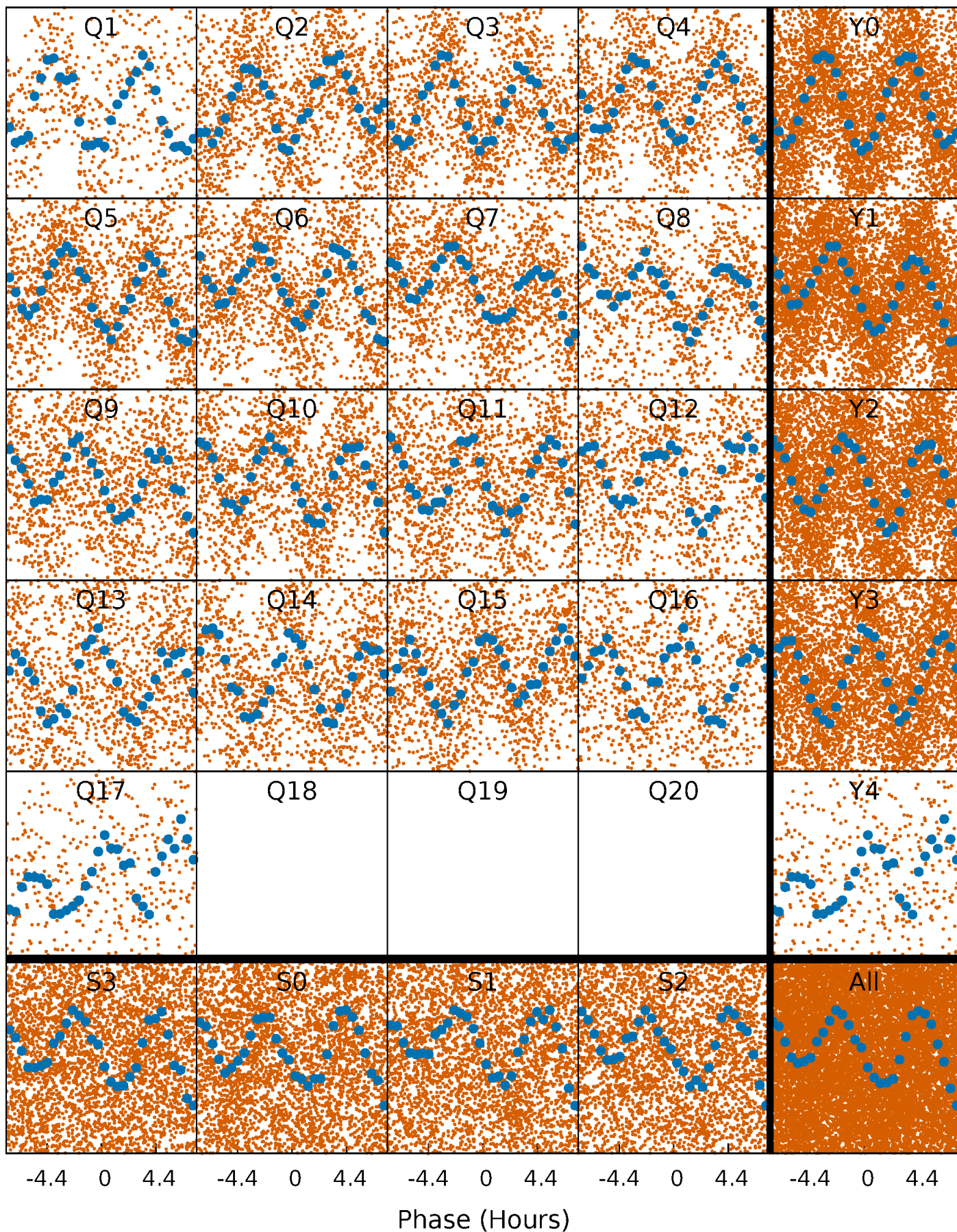


Non-Whitened Vs. Whitened Light Curve



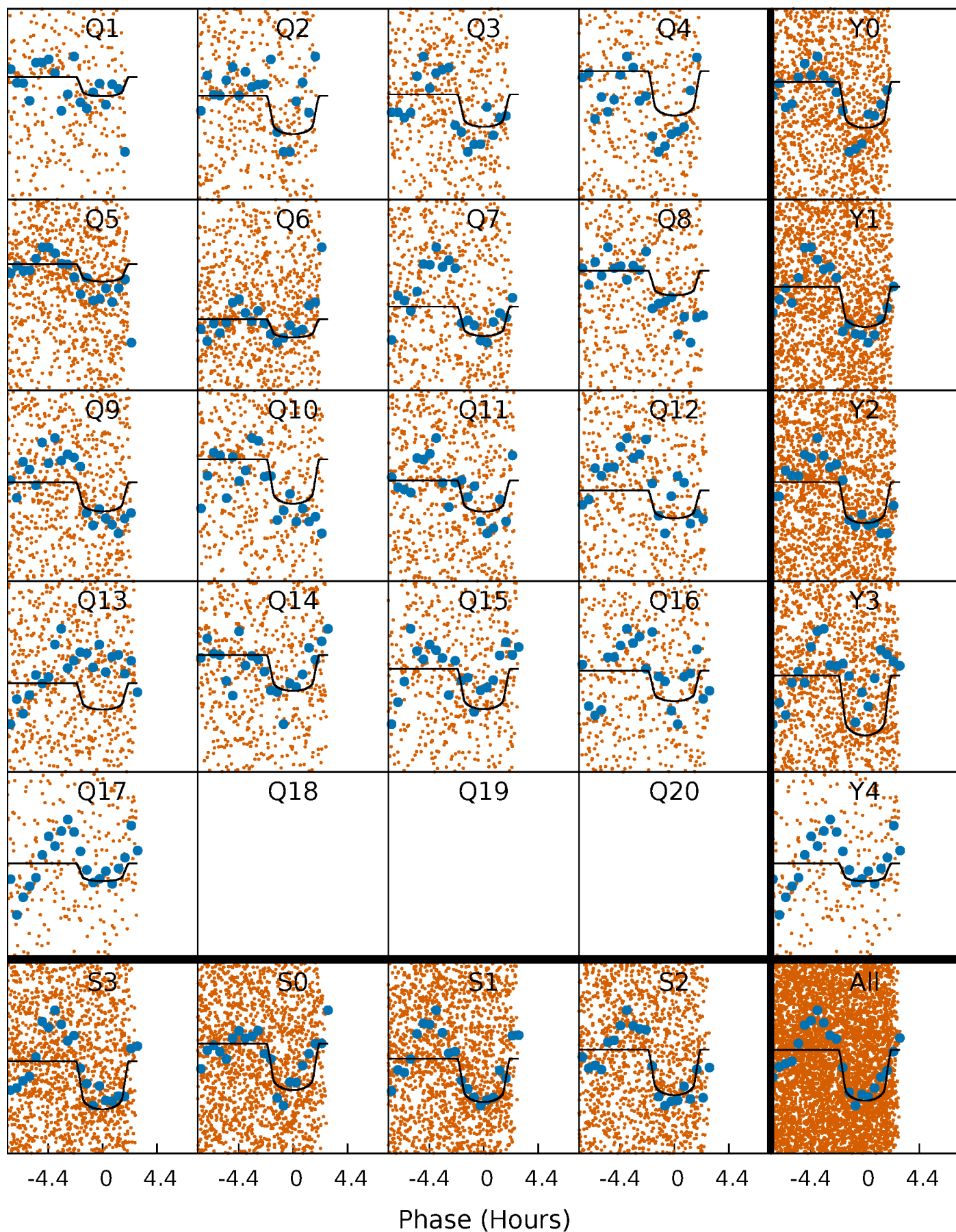
PDC Quarter-Phased Transit Curves

TCE 005705927-03 P= 1.612298 Days $T_0=132.603138$ (BKJD)



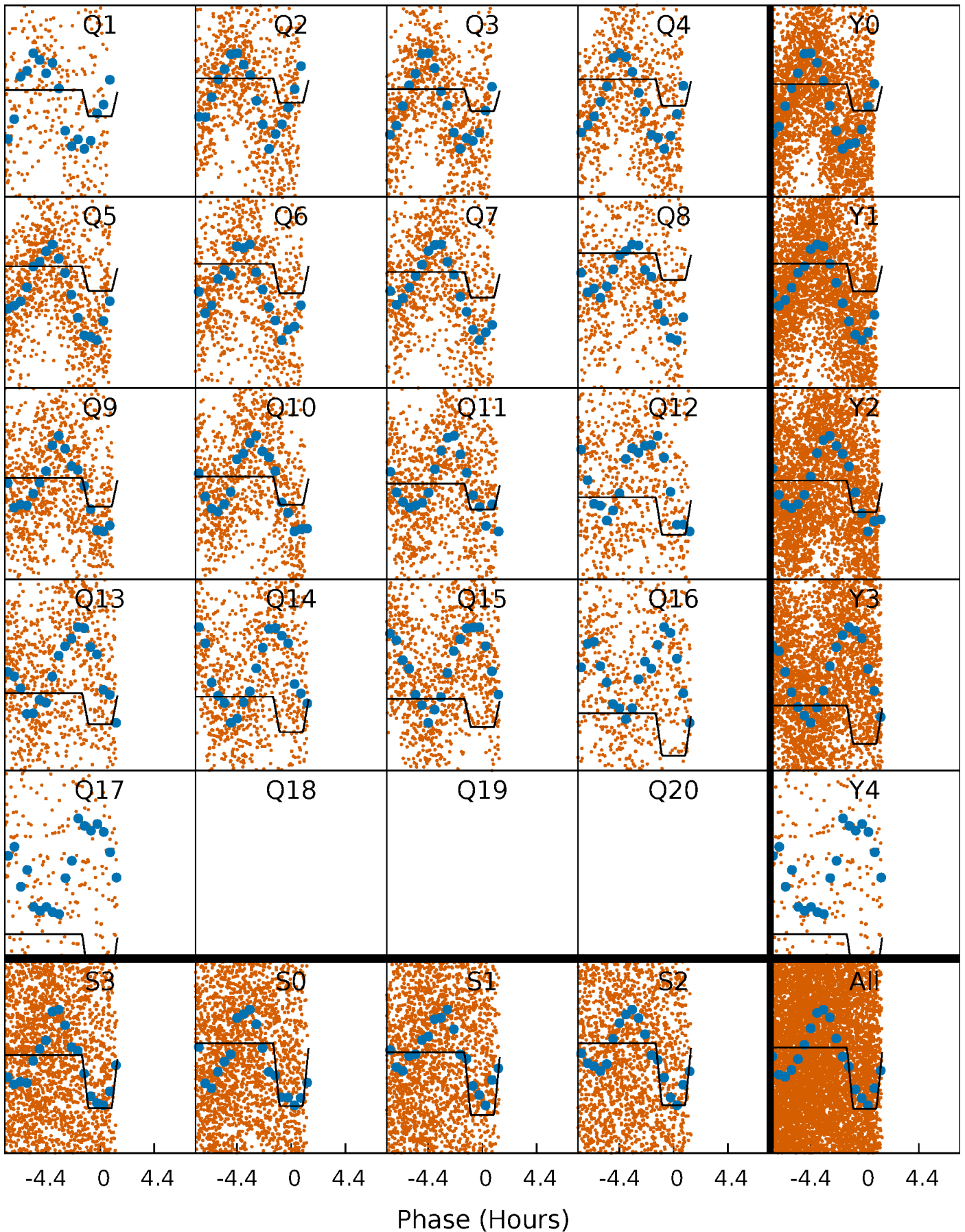
DV Quarter-Phased Transit Curves

TCE 005705927-03 P= 1.612298 Days $T_0=132.603138$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

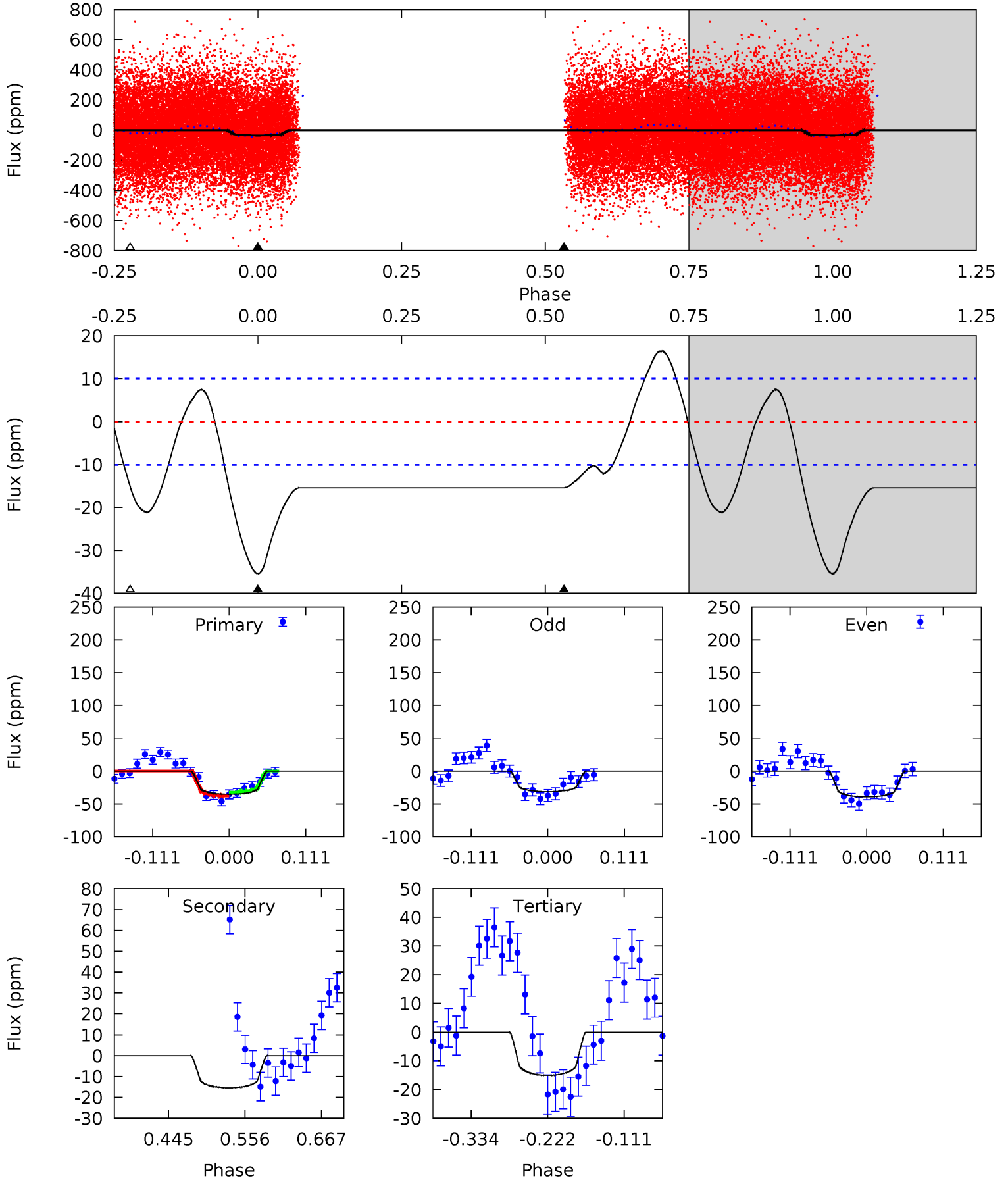
TCE 005705927-03 $P = 1.612306$ Days $T_0 = 132.654613$ (BKJD)



DV Model-Shift Uniqueness Test

005705927-03, P = 1.612298 Days, E = 130.990840 Days

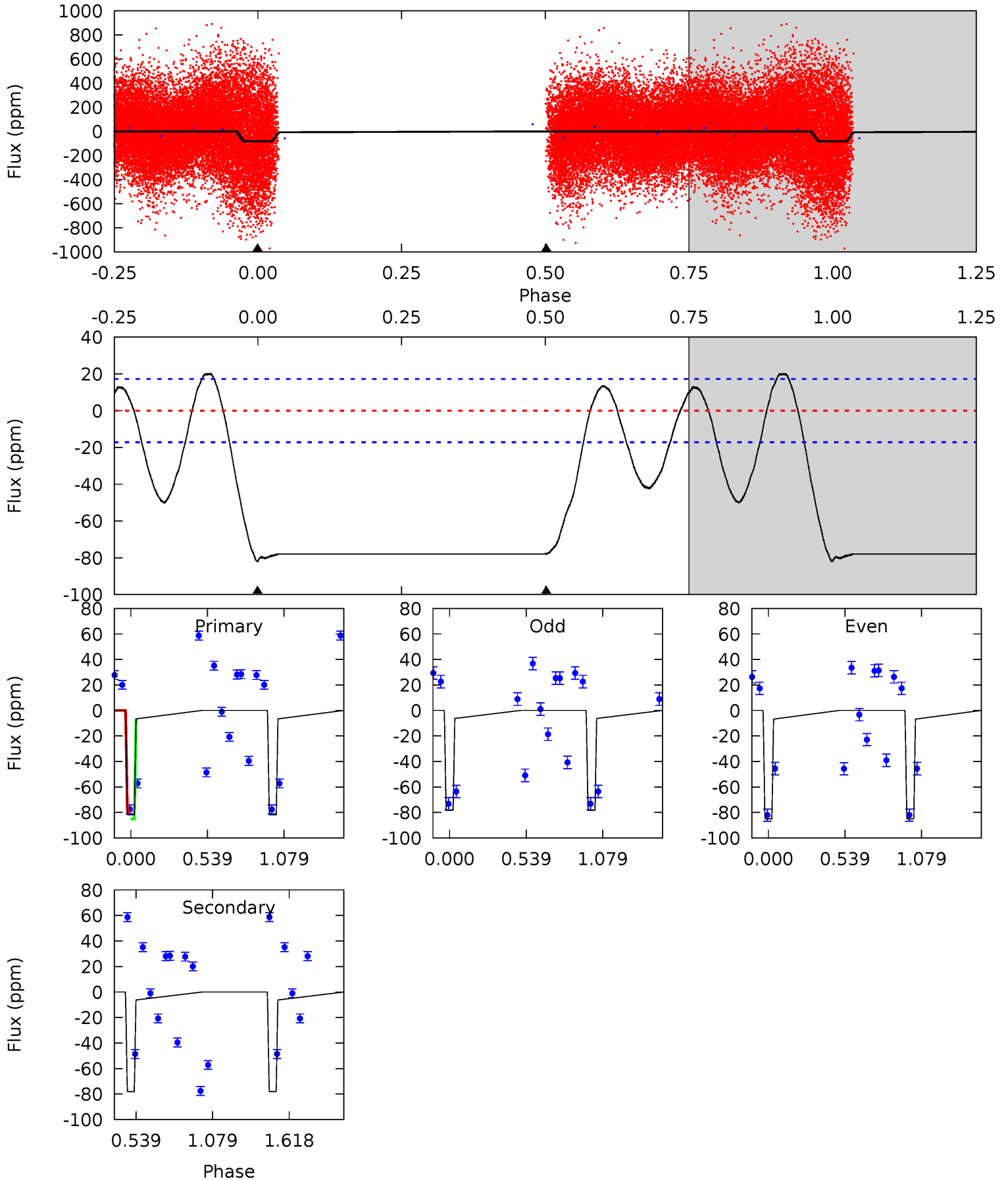
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
16.0	6.95	6.81	0	4.54	1.59	5.57	9.17	16.0	0.14	6.95	1.78	1.09	0.32	1.27



Alt Model-Shift Uniqueness Test

005705927-03, P = 1.612306 Days, E = 131.042307 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	19.0	0	0	4.20	0.61	5.12	20.0	20.0	19.0	19.0	0.78	0.88	0.20	0.69



Stellar Parameters For KIC 005705927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6671^{+73}_{-86}	$3.827^{+0.201}_{-0.108}$	$0.180^{+0.150}_{-0.150}$	$2.677^{+0.512}_{-0.682}$	$1.754^{+0.155}_{-0.224}$	$0.129^{+0.135}_{-0.050}$
	+1%/-1%	+5%/-3%	+83%/-83%	+19%/-25%	+9%/-13%	+105%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005705927-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-15 ± 2	$1.91^{+0.58}_{-0.53}$	3692^{+180}_{-241}	4935^{+870}_{-532}	$2.345^{+2.355}_{-0.938}$
Alt.	-78 ± 4	$2.88^{+0.67}_{-0.62}$	3706^{+180}_{-229}	6104^{+697}_{-533}	$5.402^{+3.184}_{-1.781}$

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

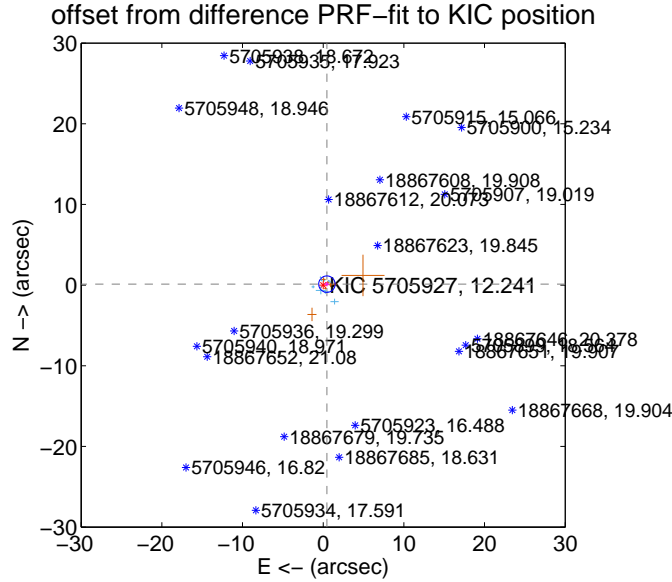
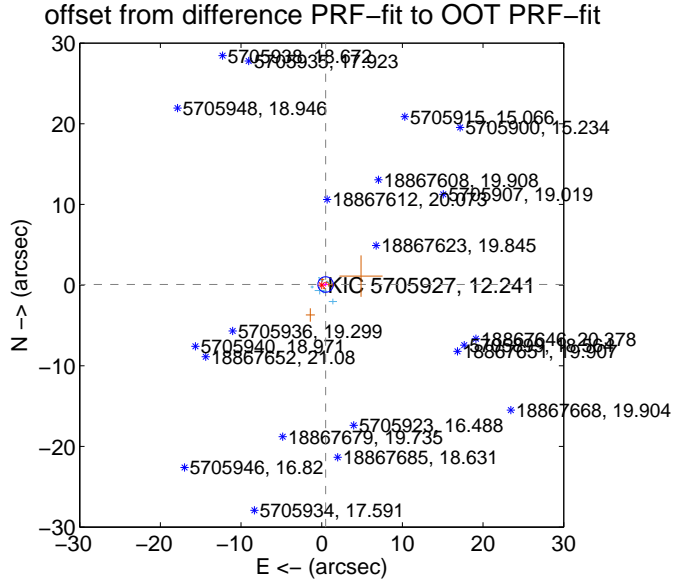
DV Centroid Data

Supplemental centroid analysis for 005705927-03. Kepler magnitude: 12.24. Transit SNR 11.09

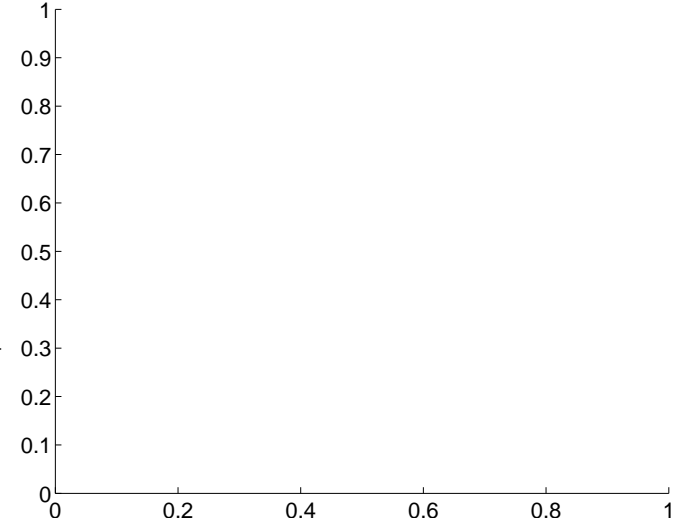
There are 10 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.03 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.489 ± 0.320	1.53	-0.483 ± 0.310	0.073 ± 0.271
PRF-fit source offset from KIC position	0.477 ± 0.339	1.41	-0.461 ± 0.316	0.120 ± 0.282
photometric centroid source offset	—	—	—	—

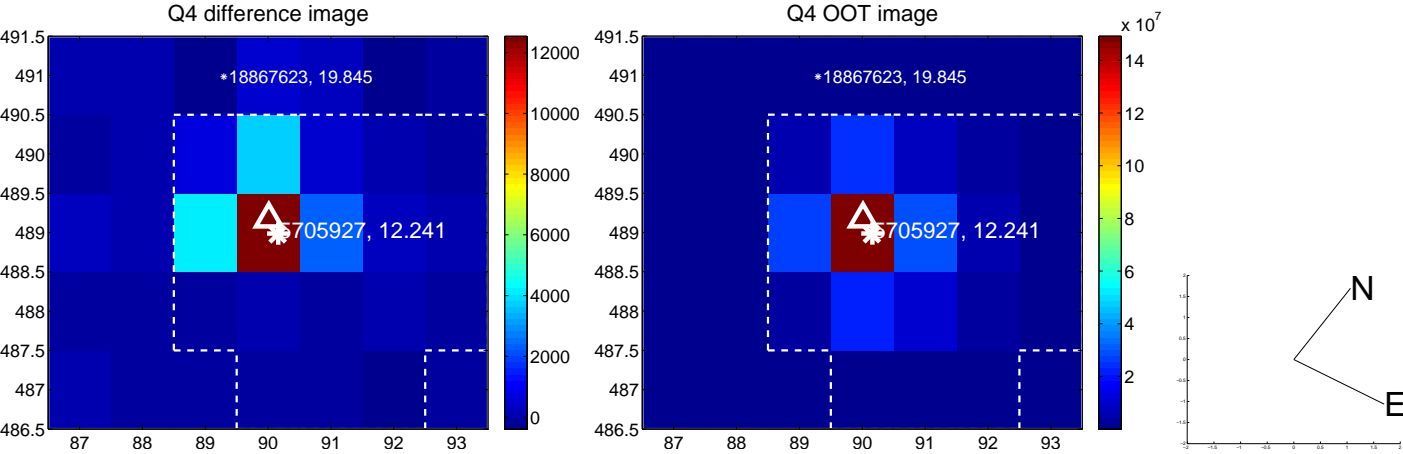
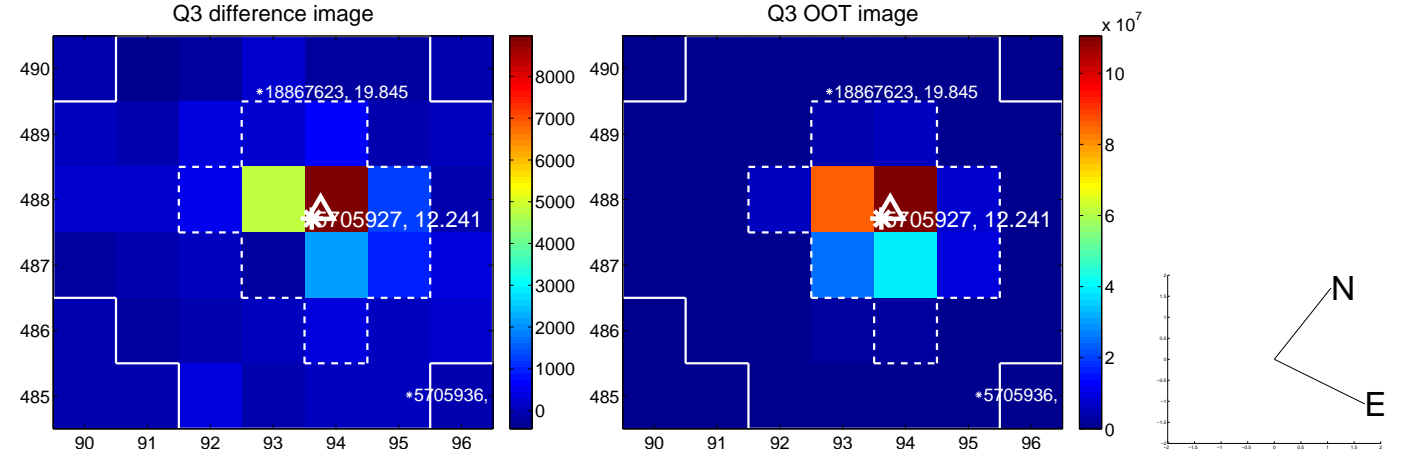
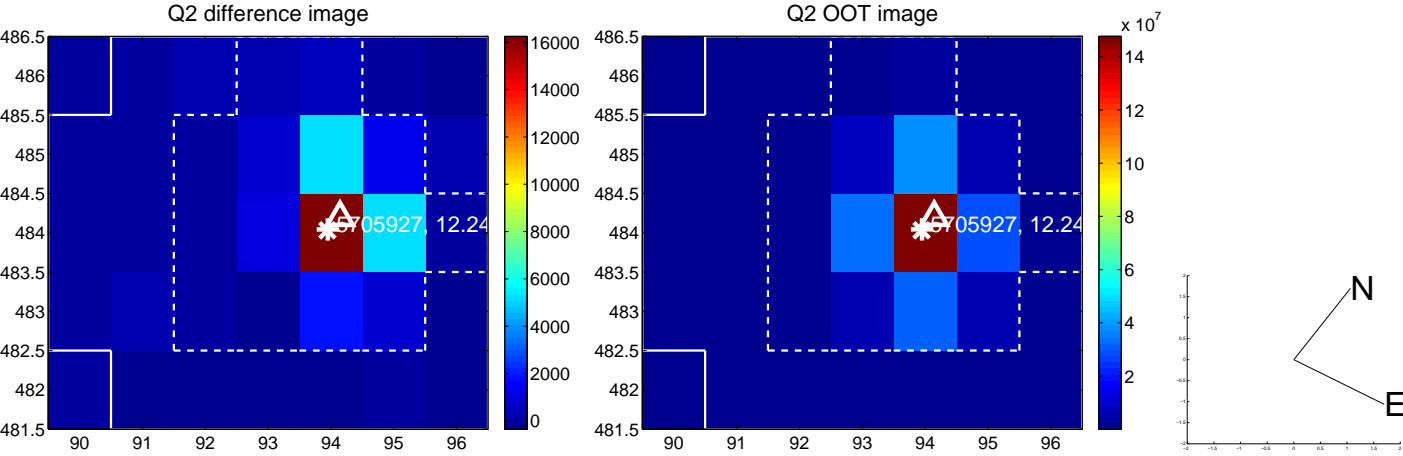
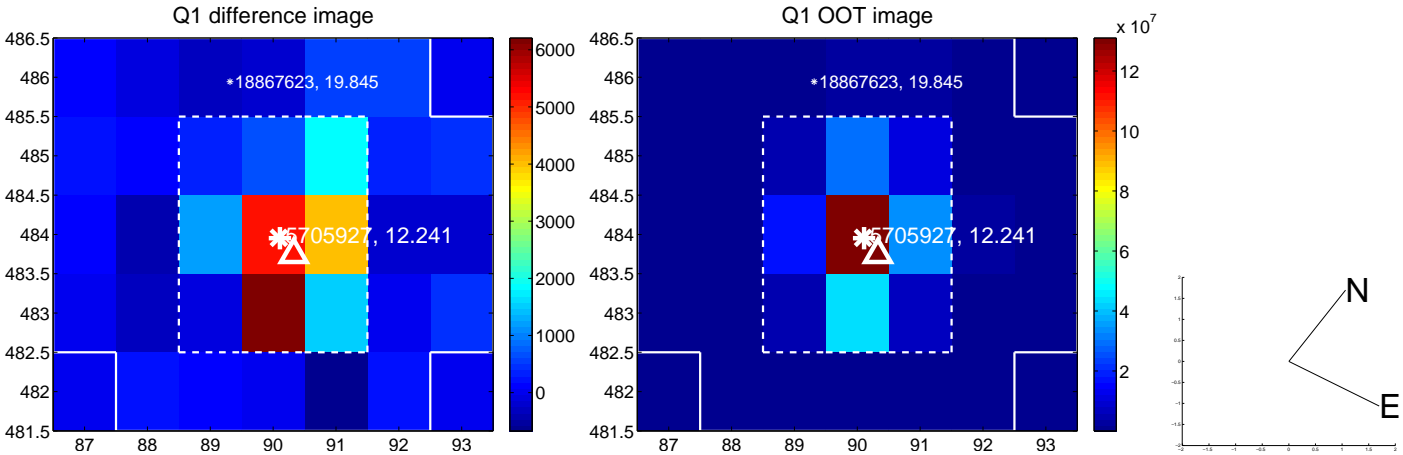


There are no photometric centroids

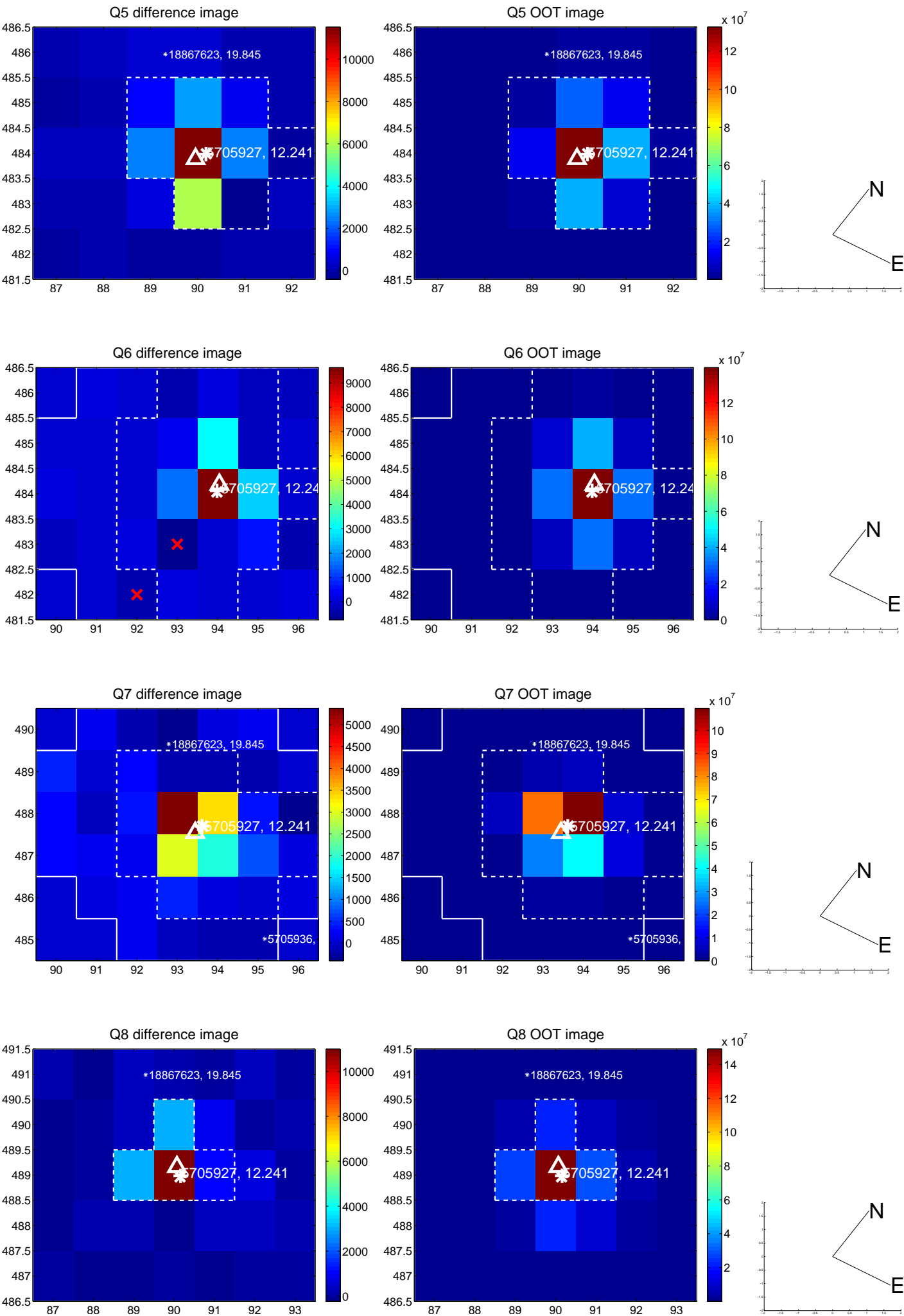


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

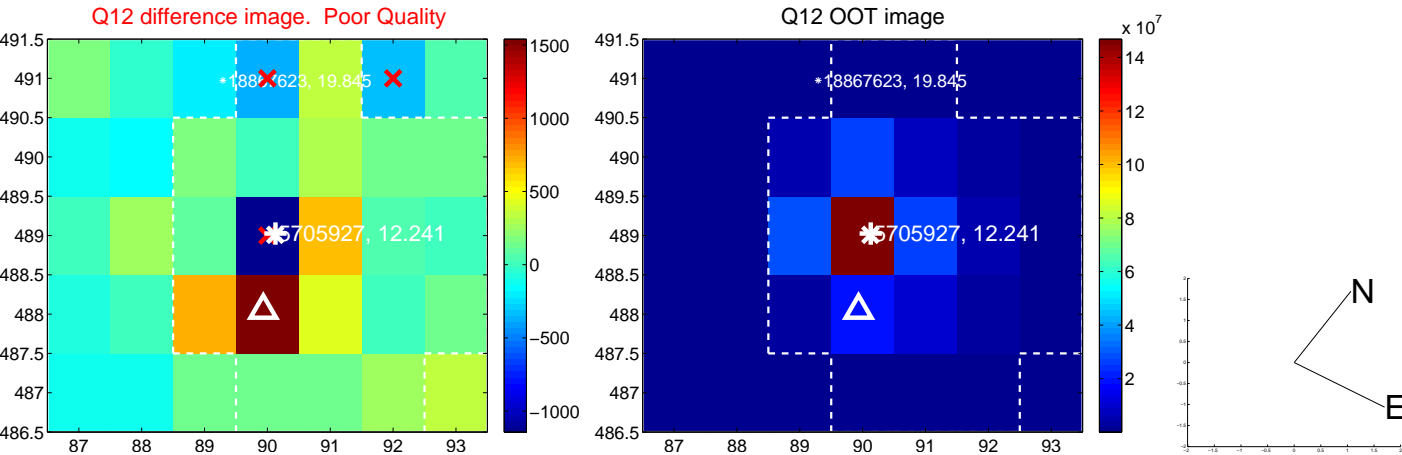
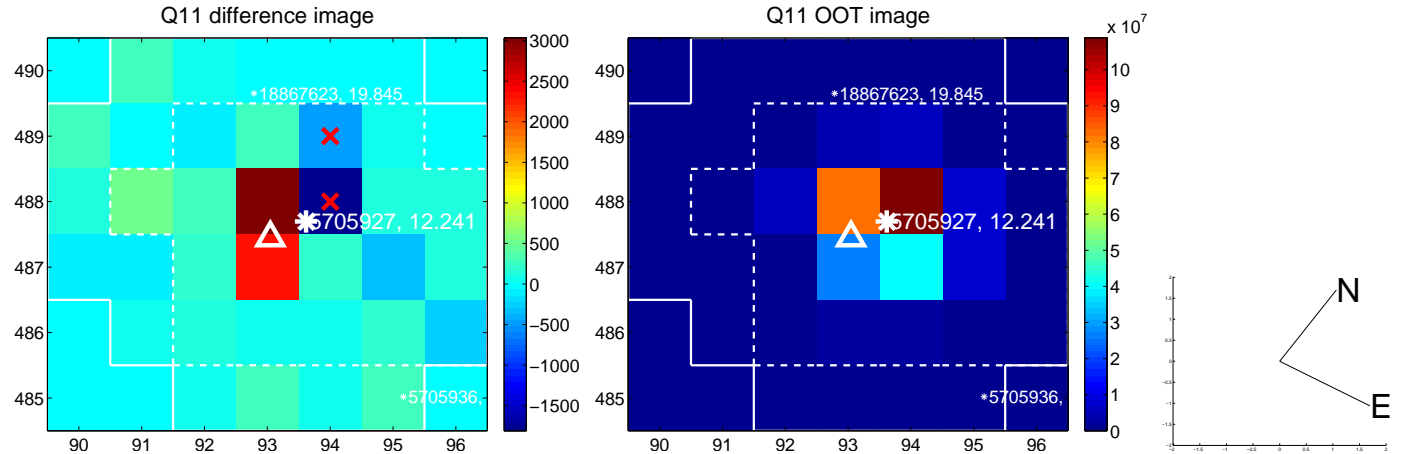
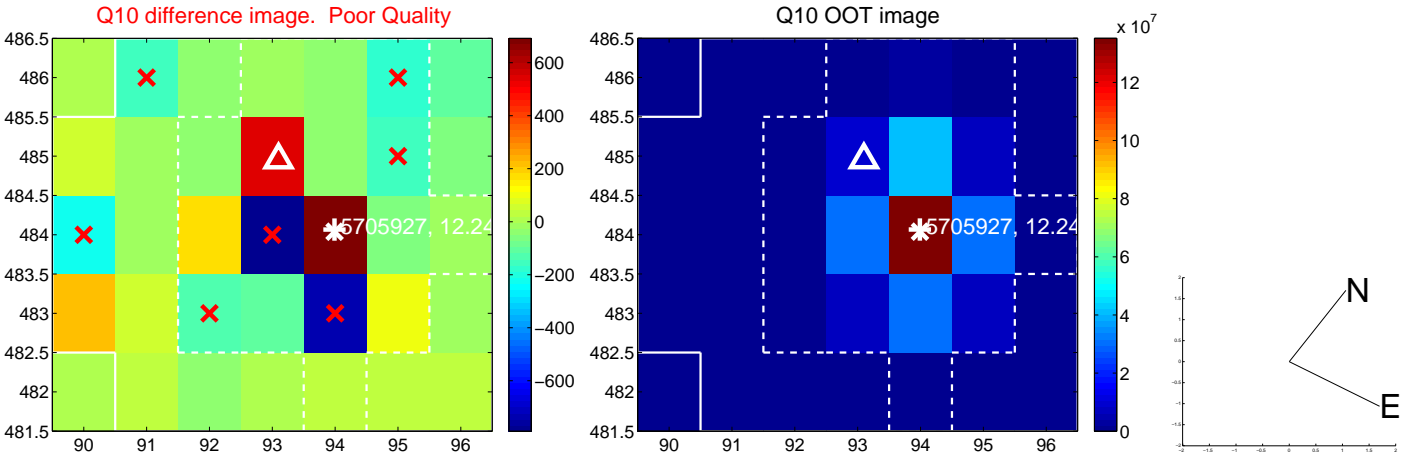
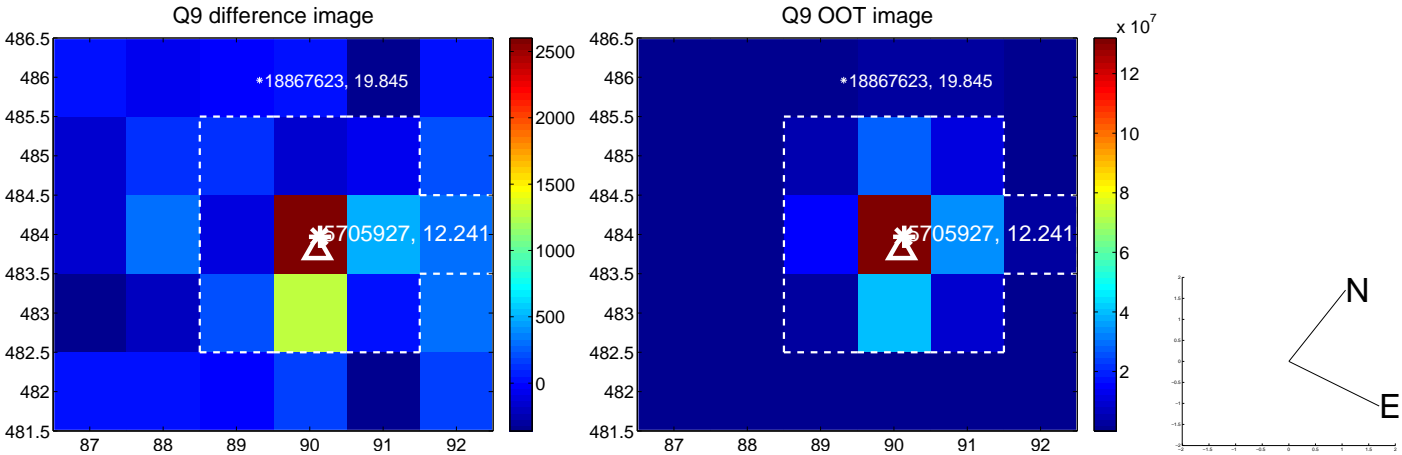
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



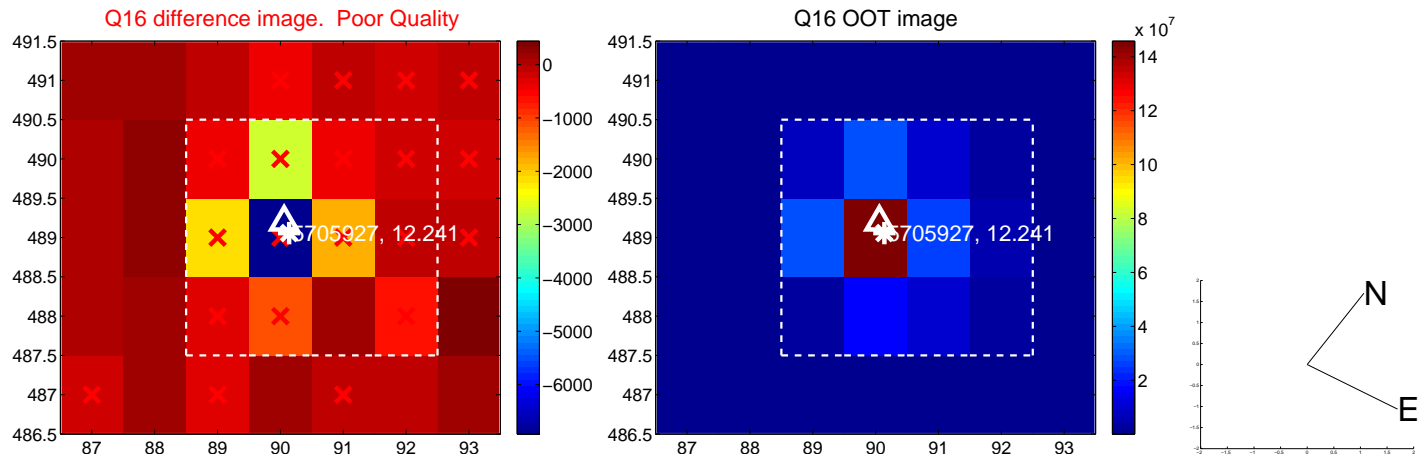
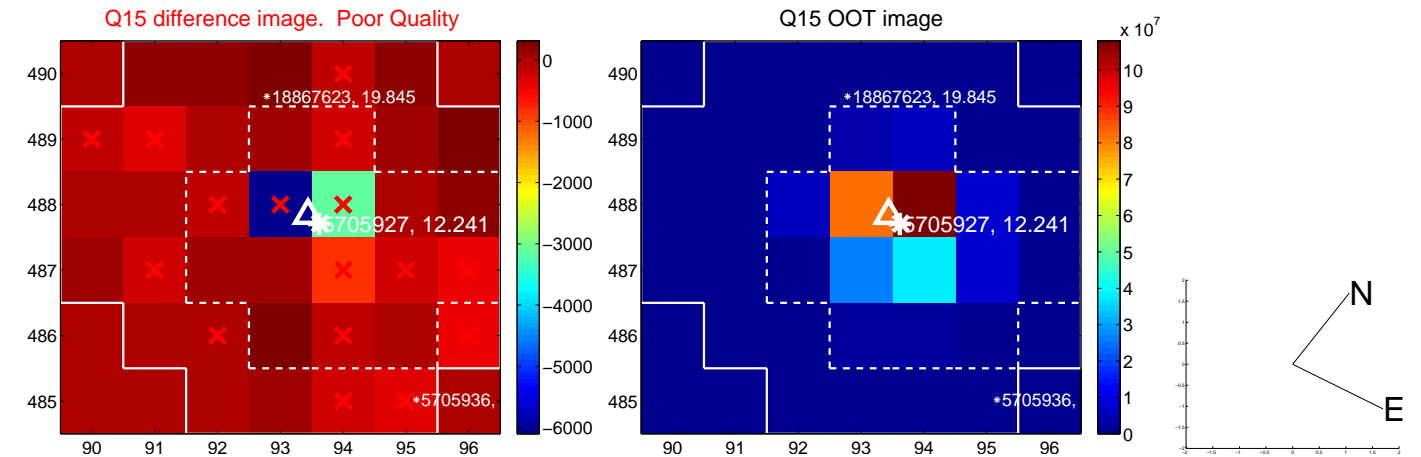
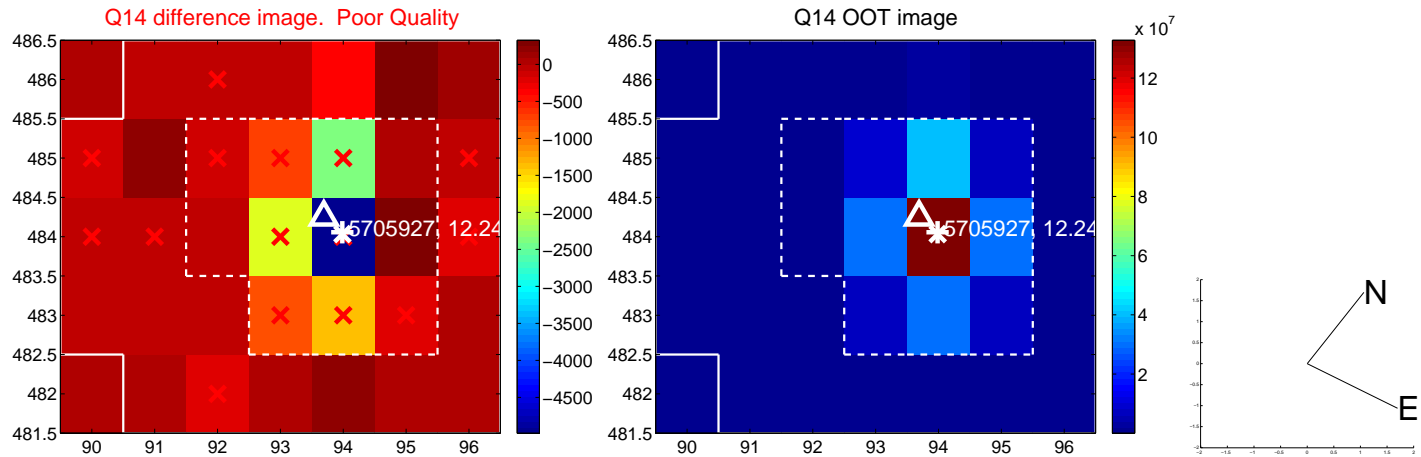
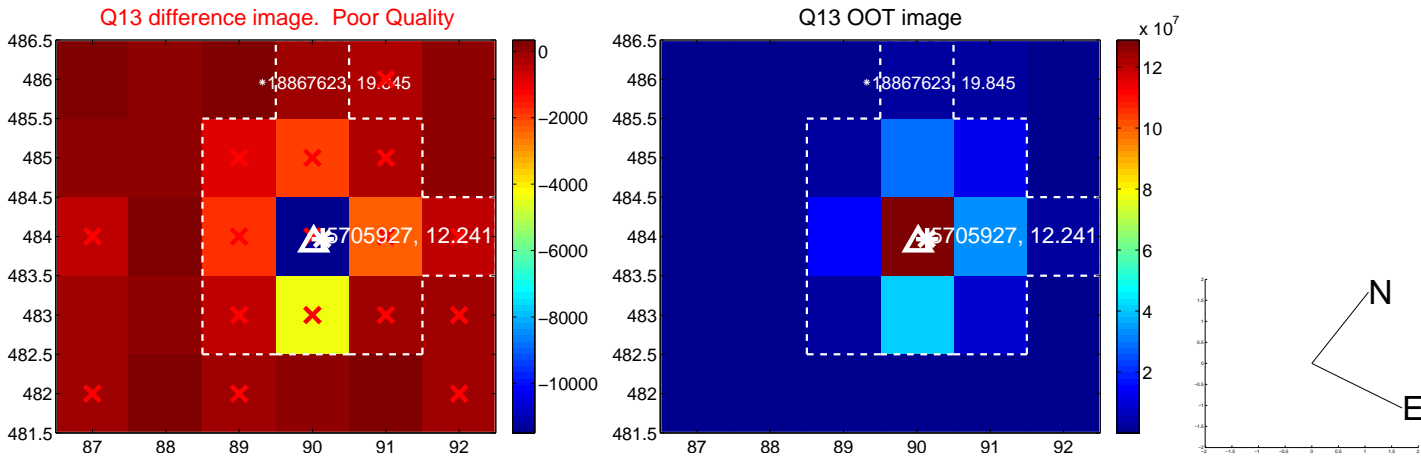
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



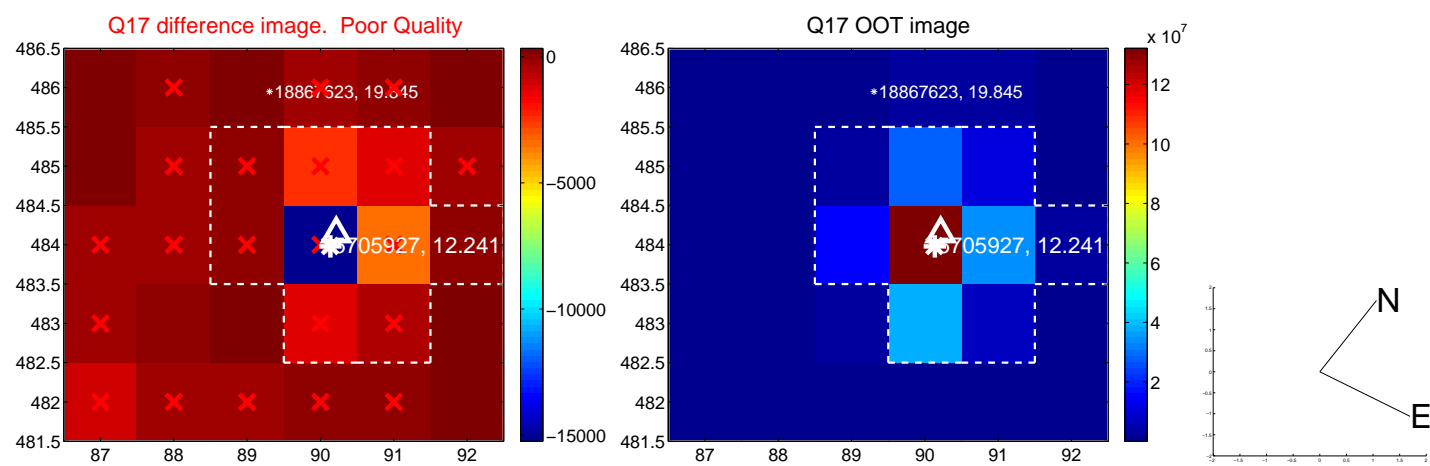
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

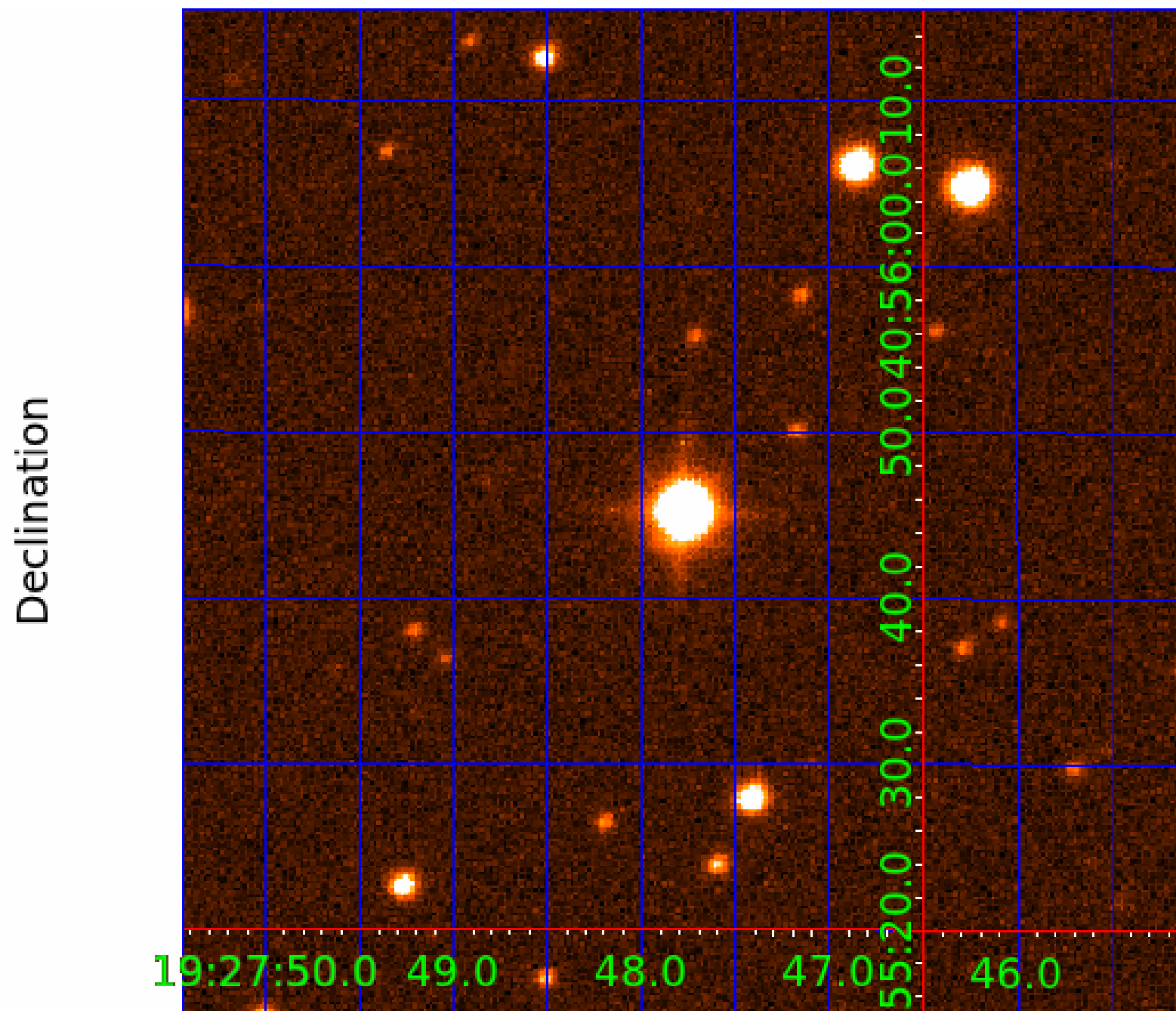


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 005705927

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})
005705927-01	OBS	No	1.612345	132.929104	41.9	3.817	9.3	9.9	2.68	6671	2.03	12063.68
005705927-02	OBS	No	1.612350	131.624842	38.9	3.408	9.7	9.6	2.68	6671	1.98	12063.63
005705927-03	OBS	No	1.612298	132.603138	39.2	3.856	9.6	11.1	2.68	6671	1.99	12064.15
005705927-04	OBS	No	194.428555	135.366996	316.0	8.968	8.1	8.2	2.68	6671	5.12	20.25
005705927-05	OBS	No	181.530205	262.327330	421.2	6.228	8.2	8.3	2.68	6671	6.08	22.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005705927-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT

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

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

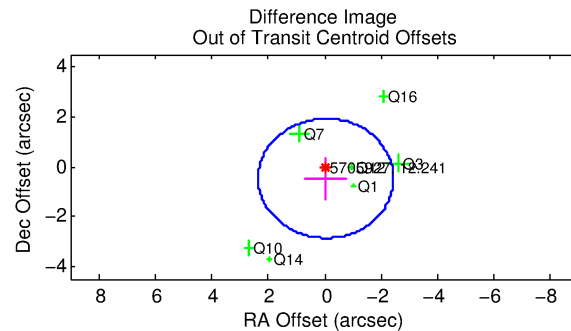
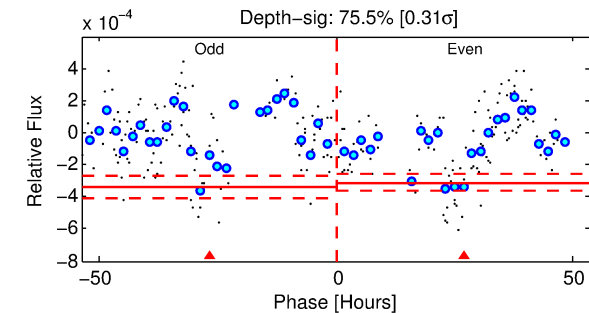
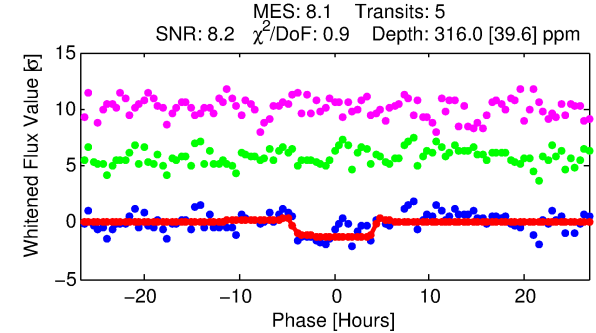
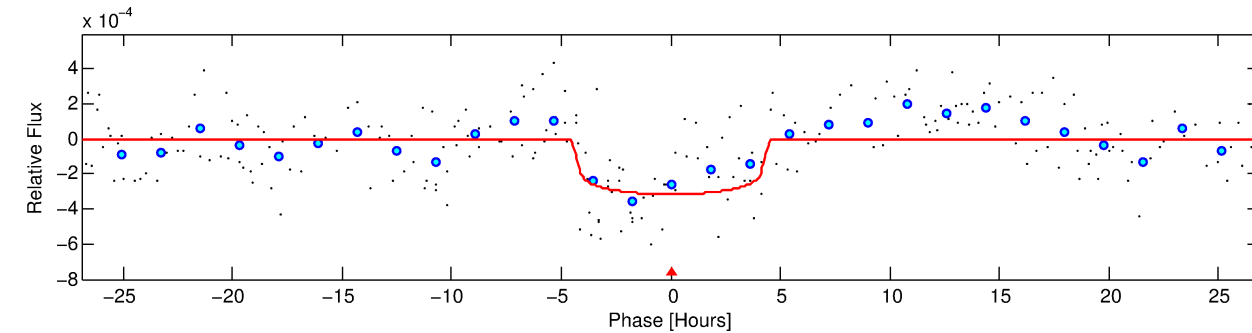
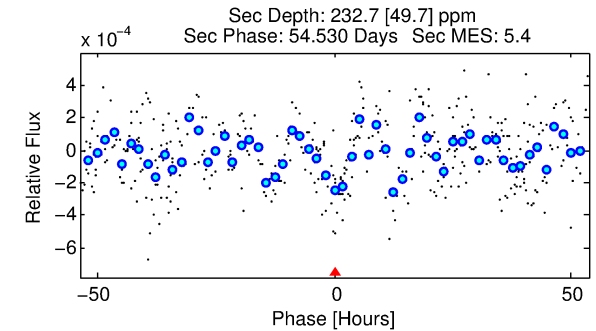
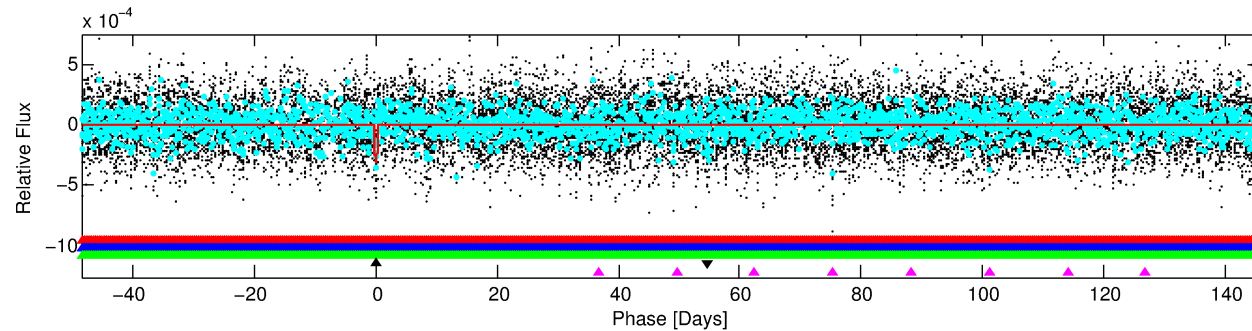
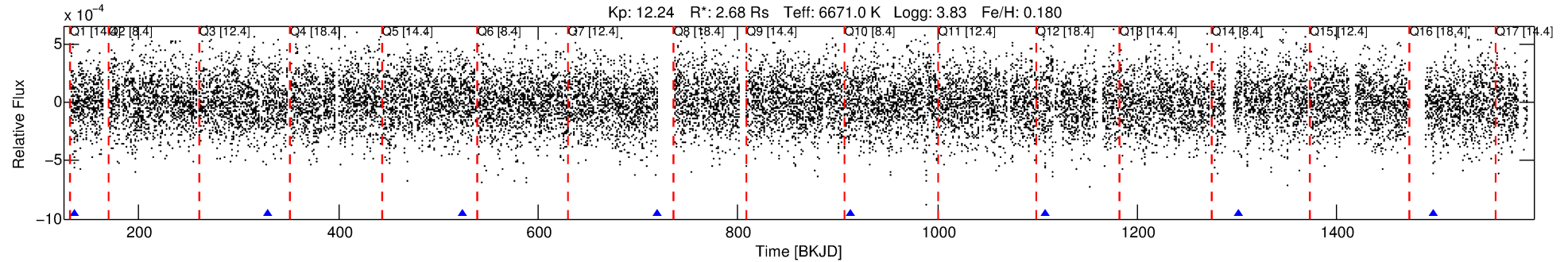
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005705927-04

No Significant Match Found

DV One-Page Summary

KIC: 5705927 Candidate: 4 of 5 Period: 194.429 d



DV Fit Results:

Period = 194.42856 [0.00261] d
Epoch = 135.3670 [0.0104] BKJD
Rp/R* = 0.0175 [0.0101]
a/R* = 118.66 [381.45]
b = 0.72 [2.13]
Seff = 20.25 [7.21]
Teq = 541 [48] K
Rp = 5.12 [3.22] Re
a = 0.7924 [0.1818] AU
Ag = 3064.15 [3744.06] [0.82σ]
Teffp = 6222 [1822] K [3.12σ]

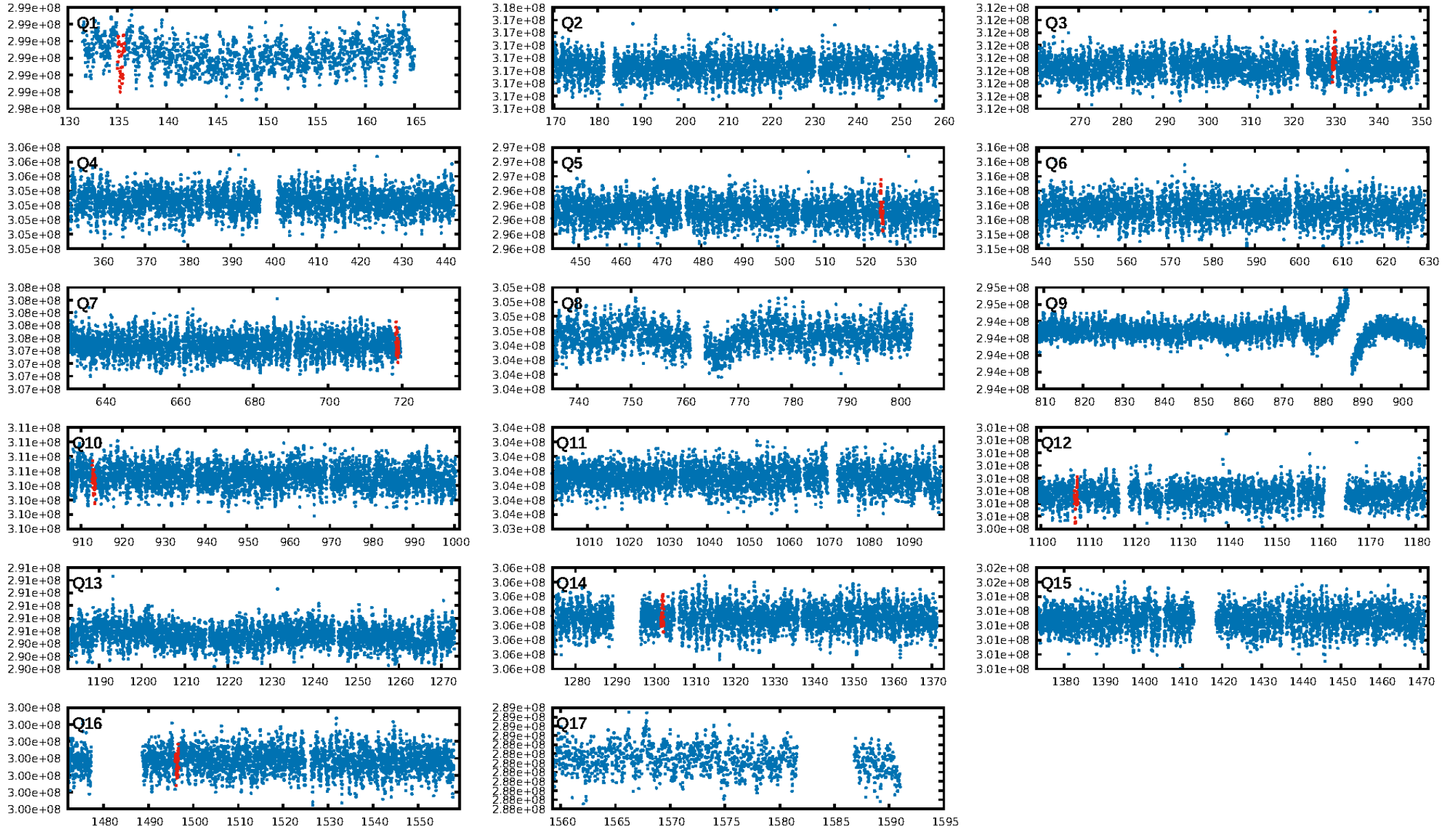
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [28.35σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 49.2%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 1.57e-09
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 3.282
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.470 arcsec [0.59σ]
OotOffset-st: 2/2/2/1 [7]
KicOffset-rm: 0.443 arcsec [0.72σ]
KicOffset-st: 2/2/2/1 [7]
DiffImageQuality-fgm: 0.43 [3/7]
DiffImageOverlap-fno: 0.00 [0/8]

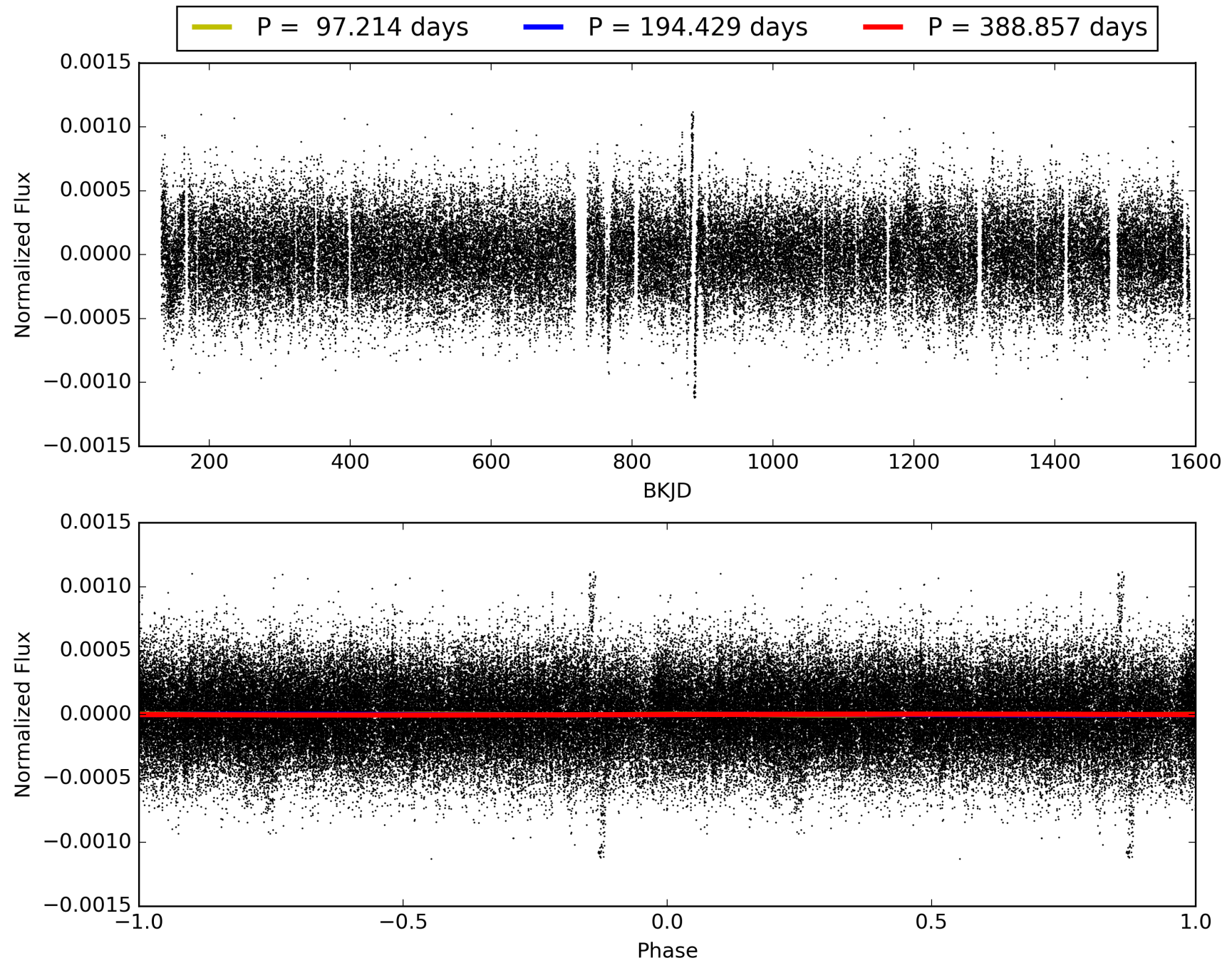
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 04:38:52 Z

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

TCE 005705927-04, PDC Light Curves

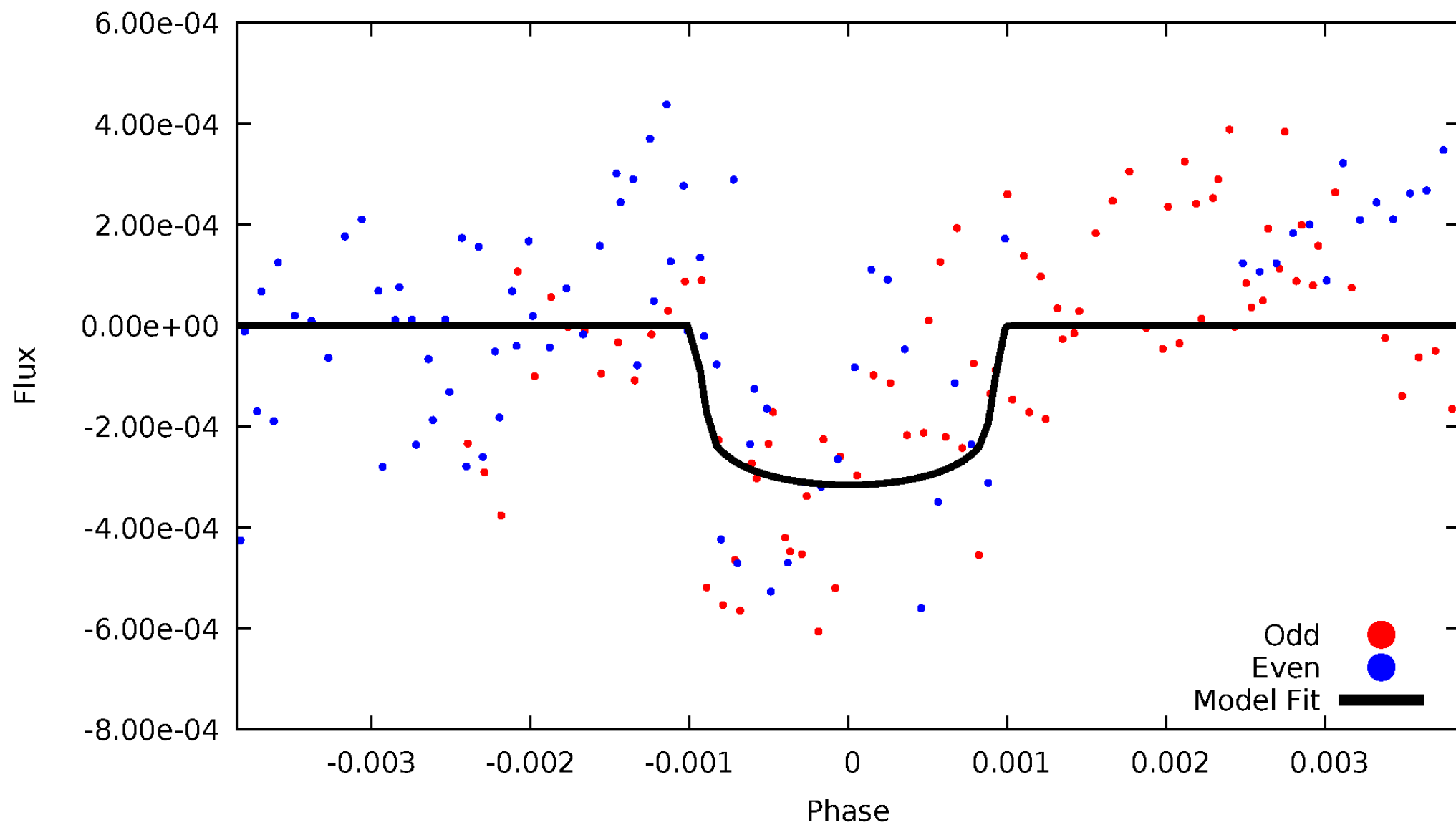


TCE 005705927-04



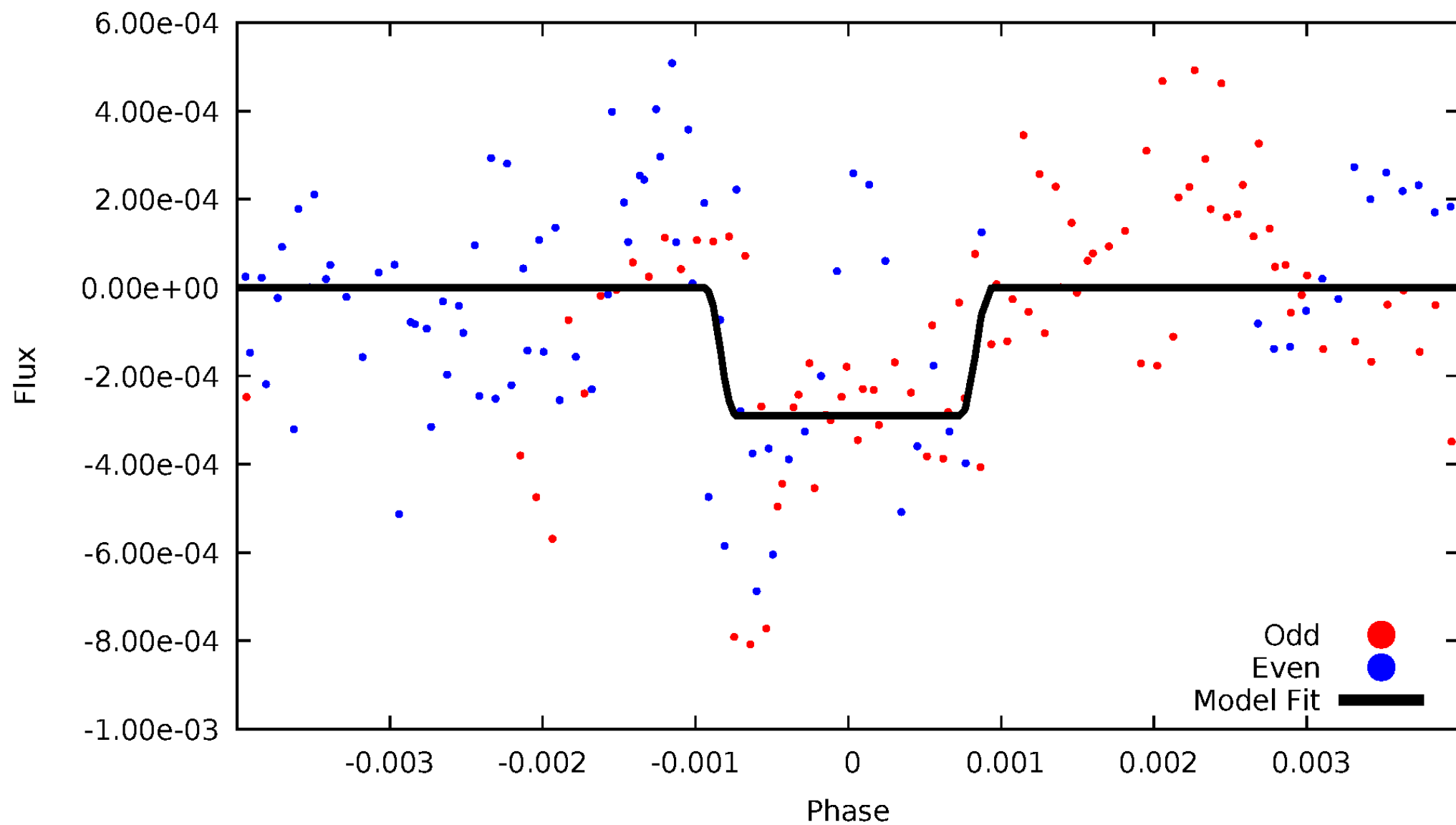
DV Odd/Even

TCE 005705927-04



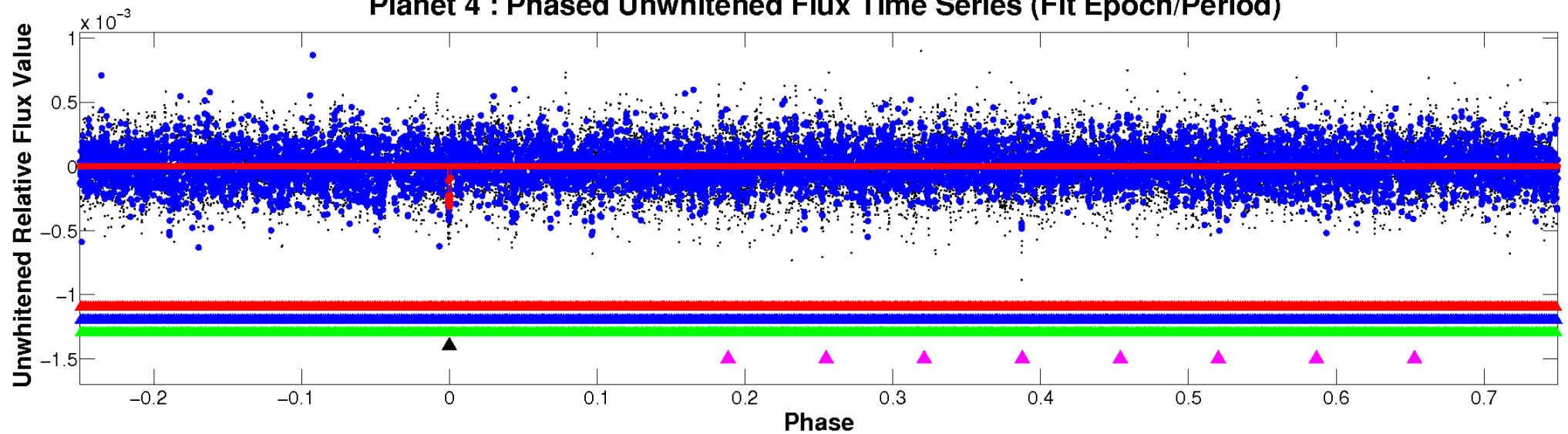
ALT Odd/Even

TCE 005705927-04

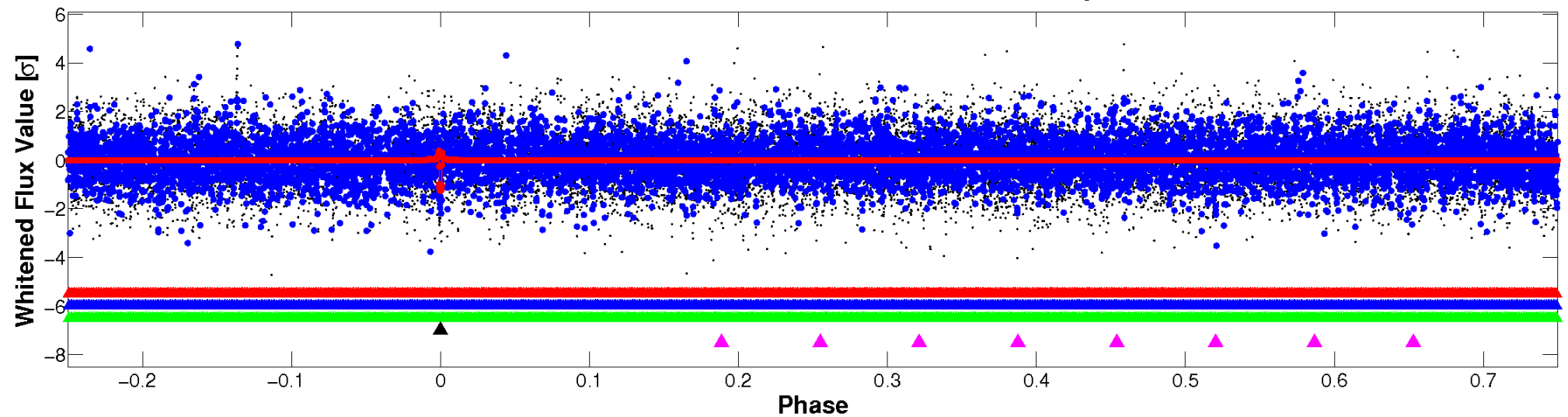


Non-Whitened Vs. Whitened Light Curve

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

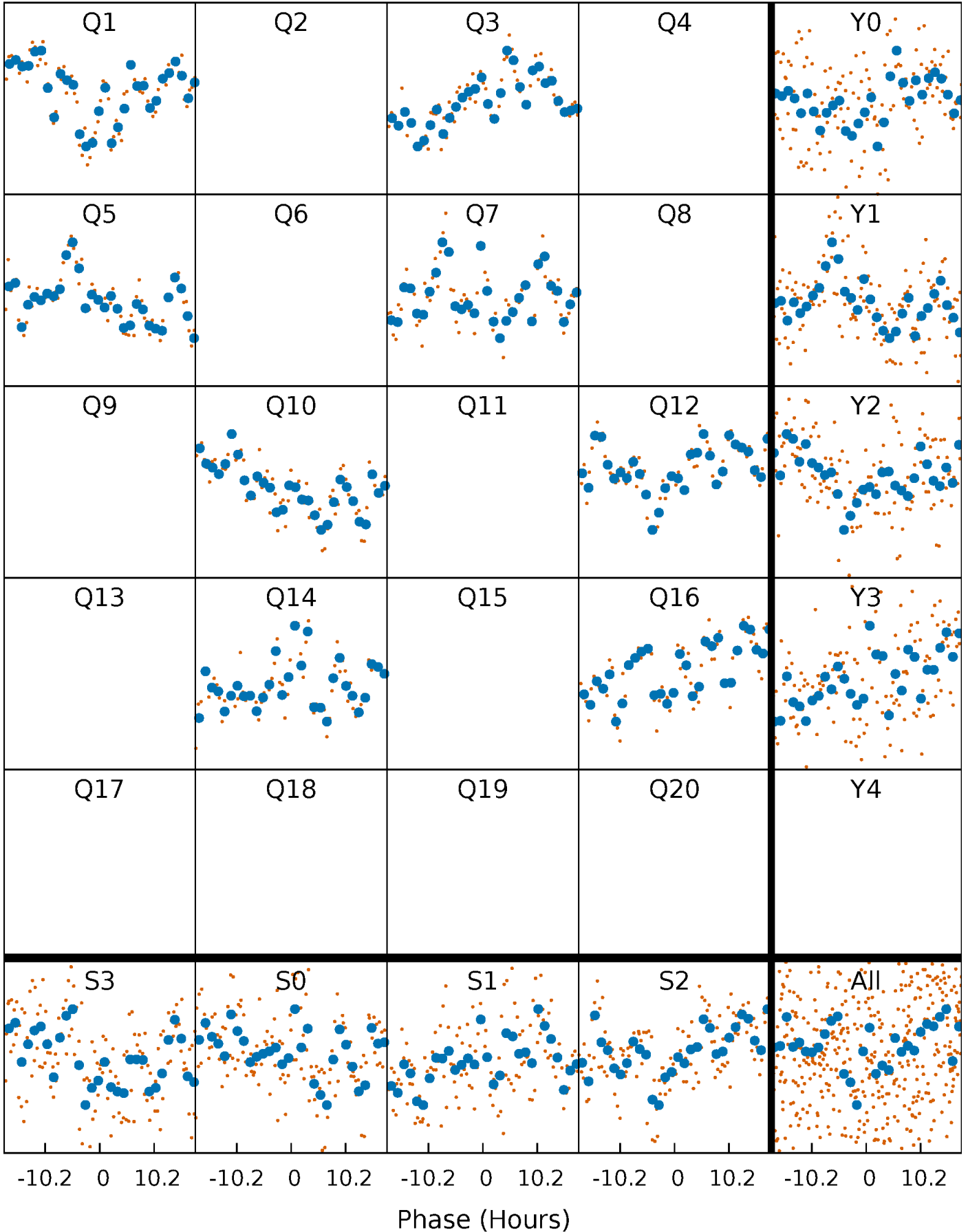


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



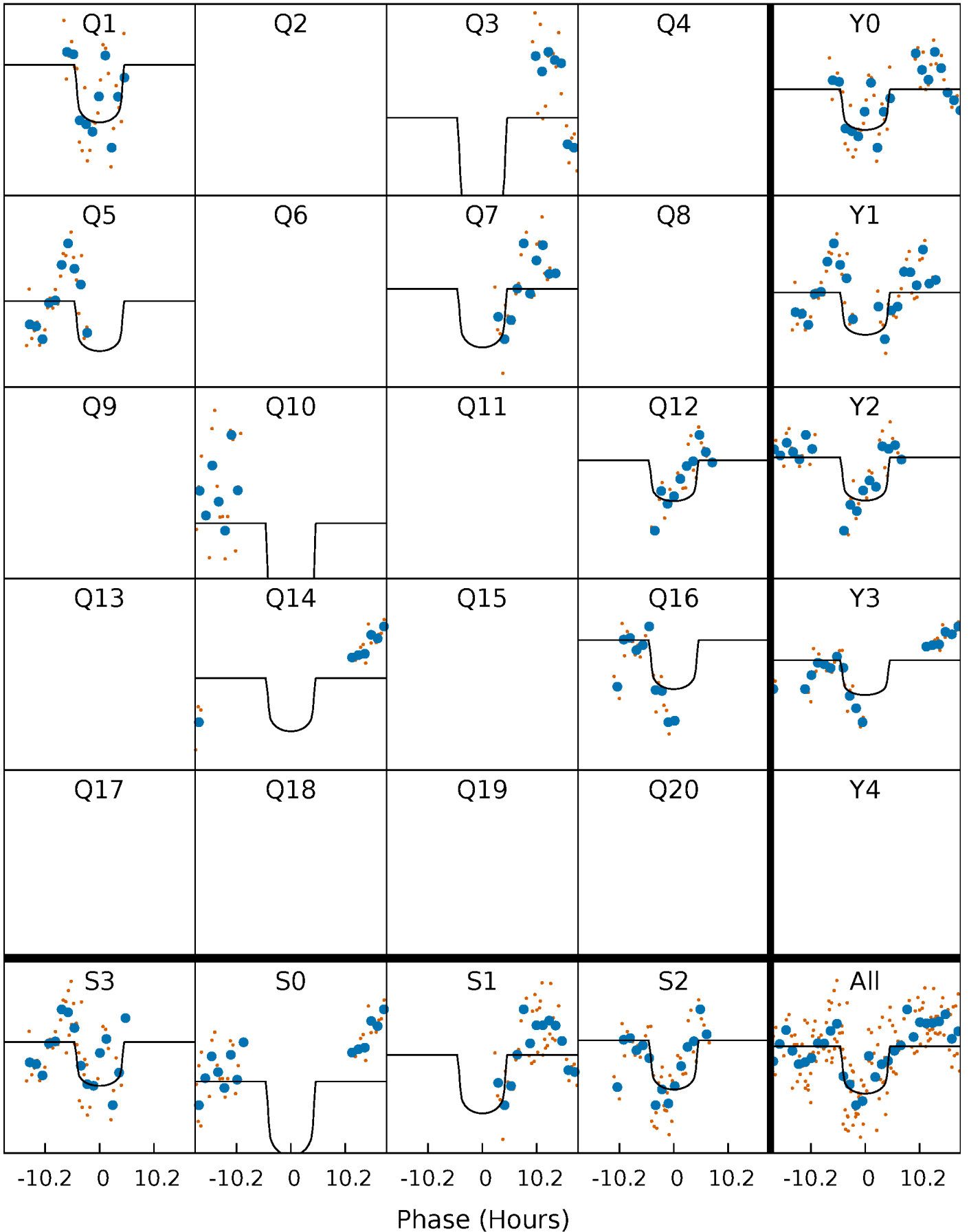
PDC Quarter-Phased Transit Curves

TCE 005705927-04 $P=194.428555$ Days $T_0=135.366996$ (BKJD)



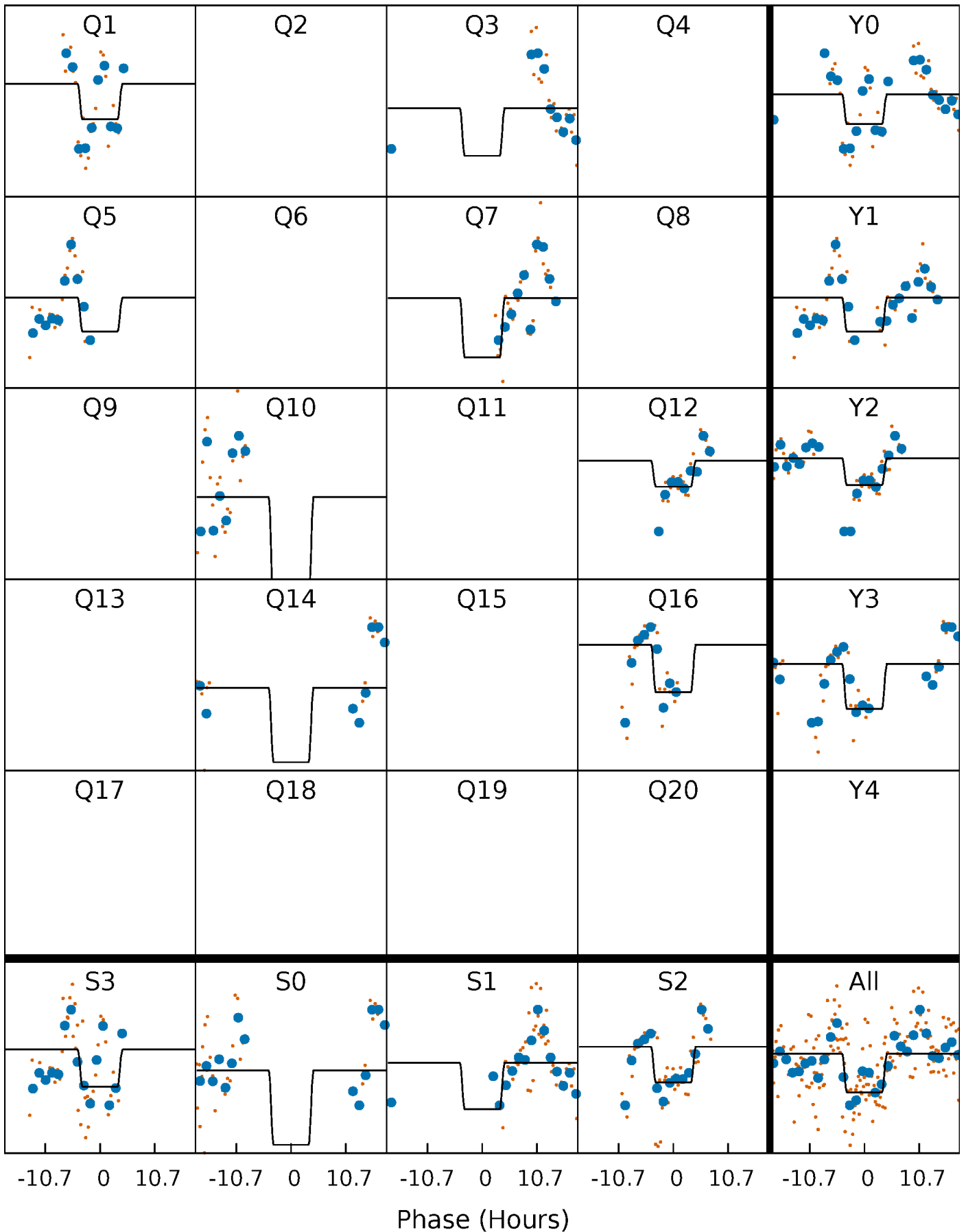
DV Quarter-Phased Transit Curves

TCE 005705927-04 $P=194.428555$ Days $T_0=135.366996$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

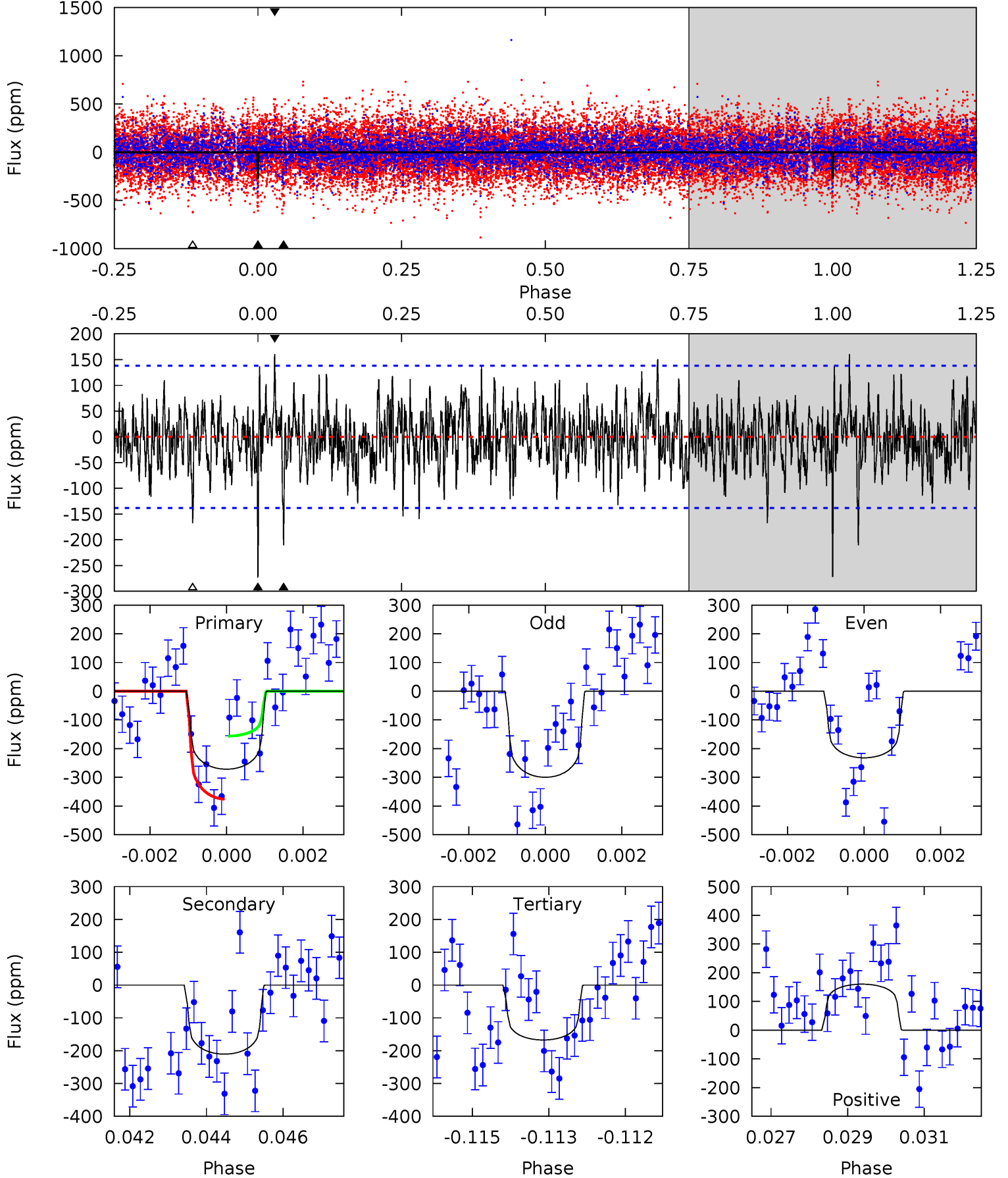
TCE 005705927-04 $P=194.418512$ Days $T_0=135.388931$ (BKJD)



DV Model-Shift Uniqueness Test

005705927-04, P = 194.428555 Days, E = 135.366996 Days

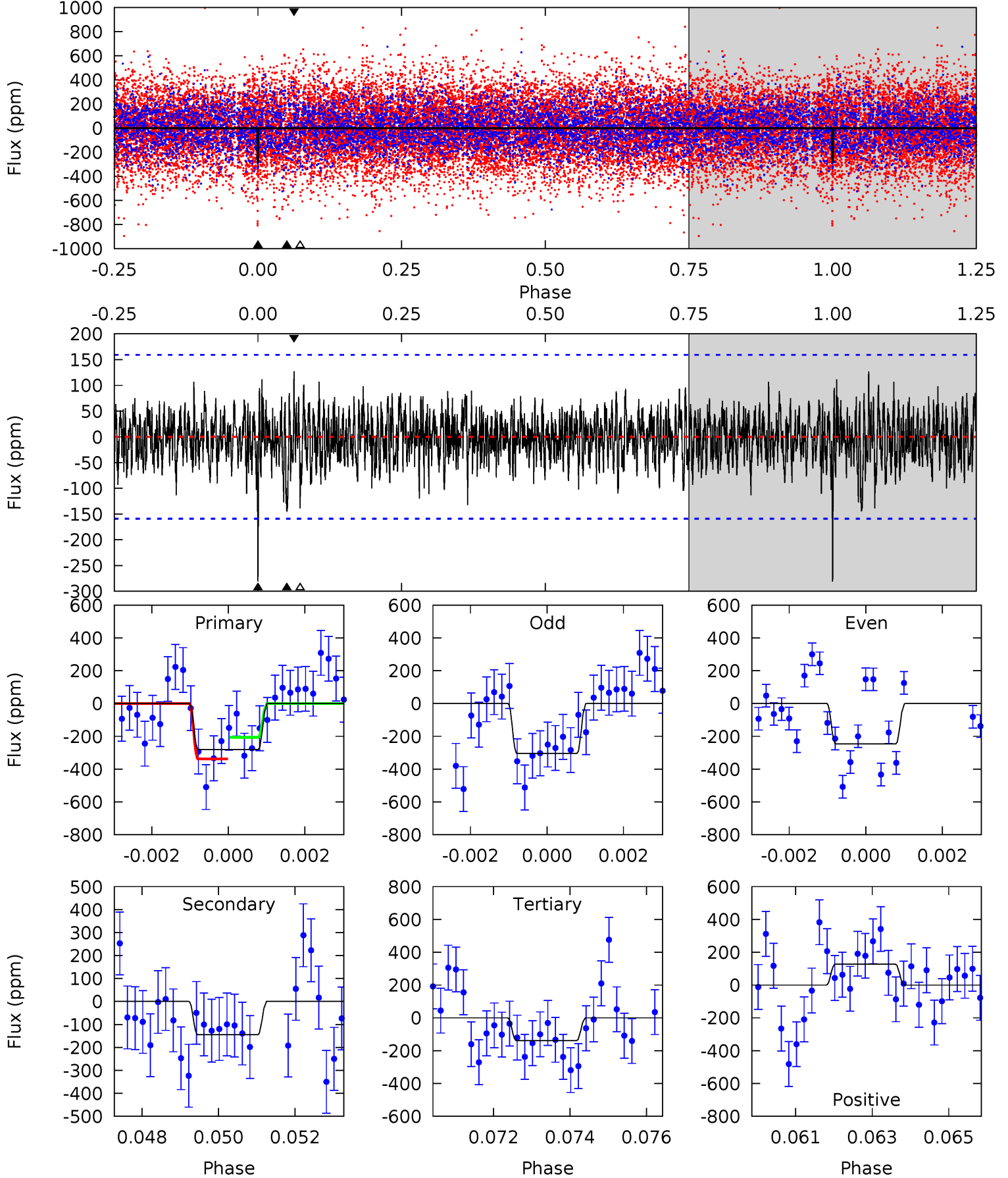
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.5	8.13	6.47	6.19	5.33	3.10	1.82	4.03	4.30	1.66	1.94	1.29	0.99	0.37	4.19



Alt Model-Shift Uniqueness Test

005705927-04, P = 194.418512 Days, E = 135.388931 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.42	4.85	4.65	4.26	5.34	3.11	1.28	4.77	5.17	0.20	0.59	0.95	1.06	0.31	2.20



Stellar Parameters For KIC 005705927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6671^{+73}_{-86}	$3.827^{+0.201}_{-0.108}$	$0.180^{+0.150}_{-0.150}$	$2.677^{+0.512}_{-0.682}$	$1.754^{+0.155}_{-0.224}$	$0.129^{+0.135}_{-0.050}$
	+1%/-1%	+5%/-3%	+83%/-83%	+19%/-25%	+9%/-13%	+105%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005705927-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-210 ± 26	$4.81^{+3.06}_{-2.50}$	750^{+35}_{-48}	6028^{+3428}_{-1083}	3063^{+10254}_{-1870}
Alt.	-145 ± 30	$4.90^{+3.01}_{-2.62}$	751^{+36}_{-50}	5494^{+2880}_{-954}	2013^{+7774}_{-1228}

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

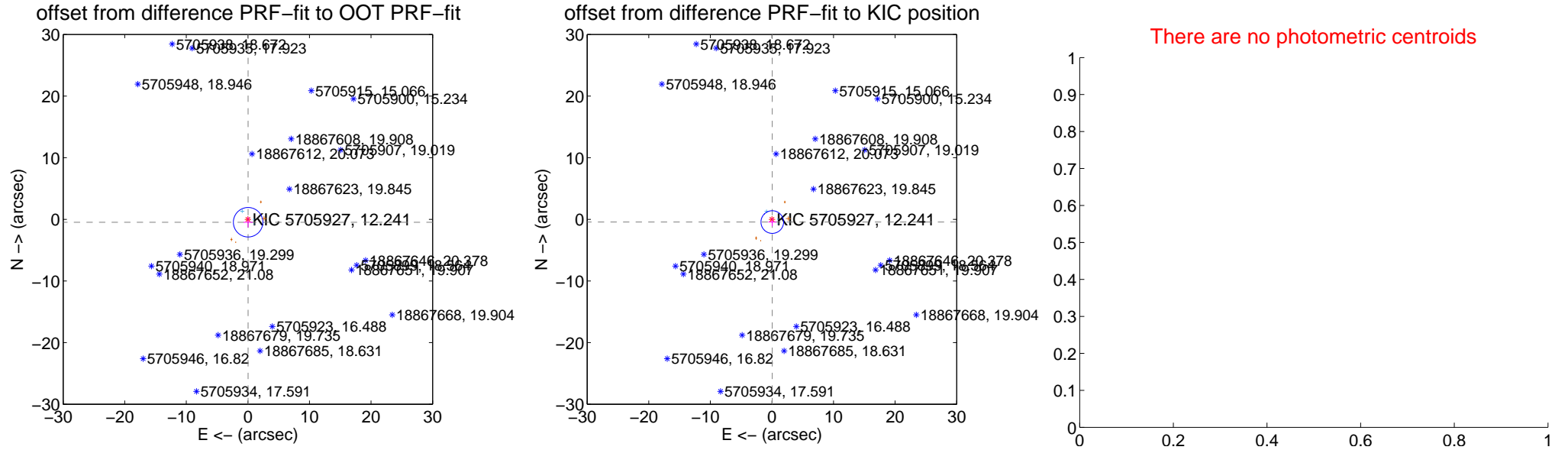
DV Centroid Data

Supplemental centroid analysis for 005705927-04. Kepler magnitude: 12.24. Transit SNR 8.18

There are 3 quarters with good PRF difference image offsets

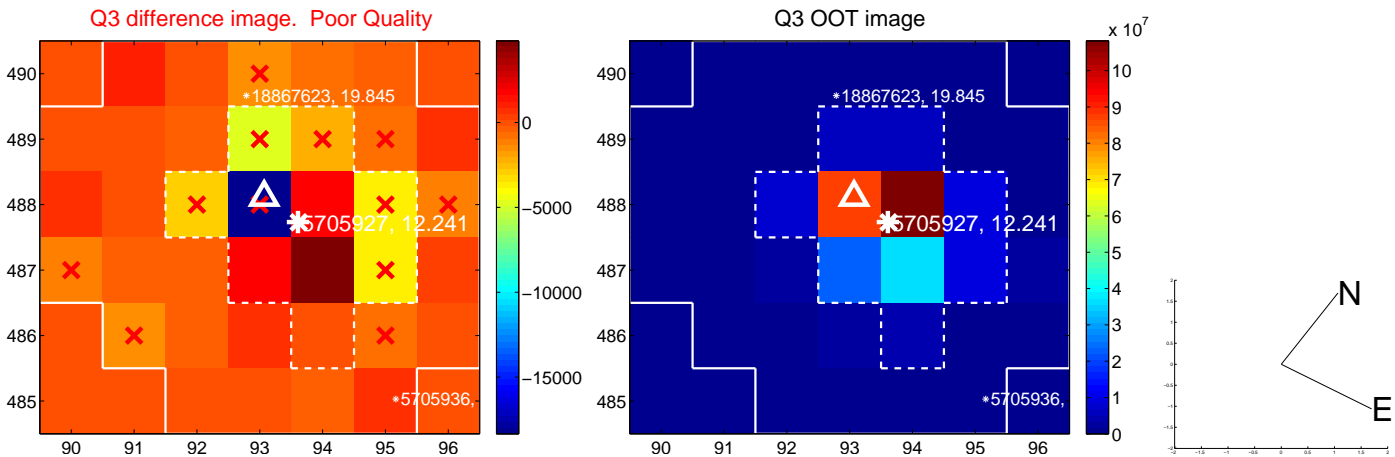
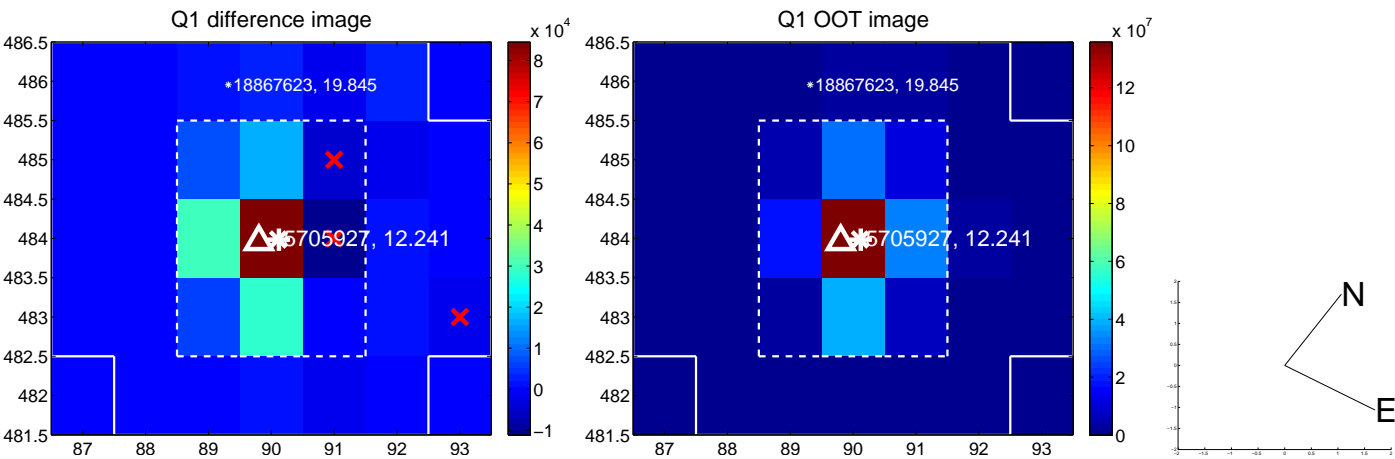
The direct PRF centroid is offset from the target star catalog position by about 0.02 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.470 ± 0.797	0.59	-0.038 ± 0.746	-0.469 ± 0.844
PRF-fit source offset from KIC position	0.443 ± 0.612	0.72	-0.055 ± 0.651	-0.439 ± 0.669
photometric centroid source offset	—	—	—	—

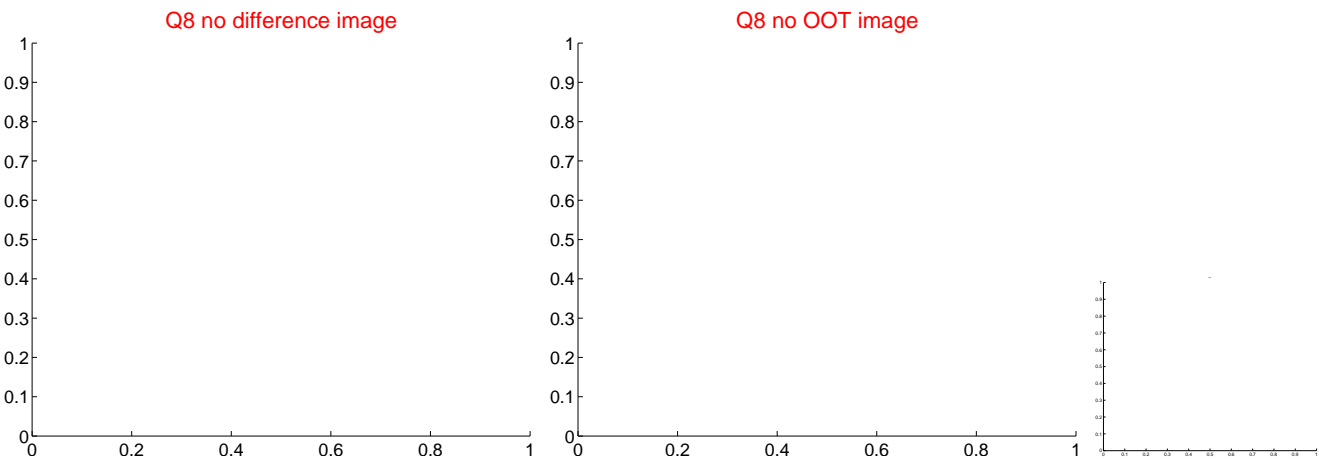
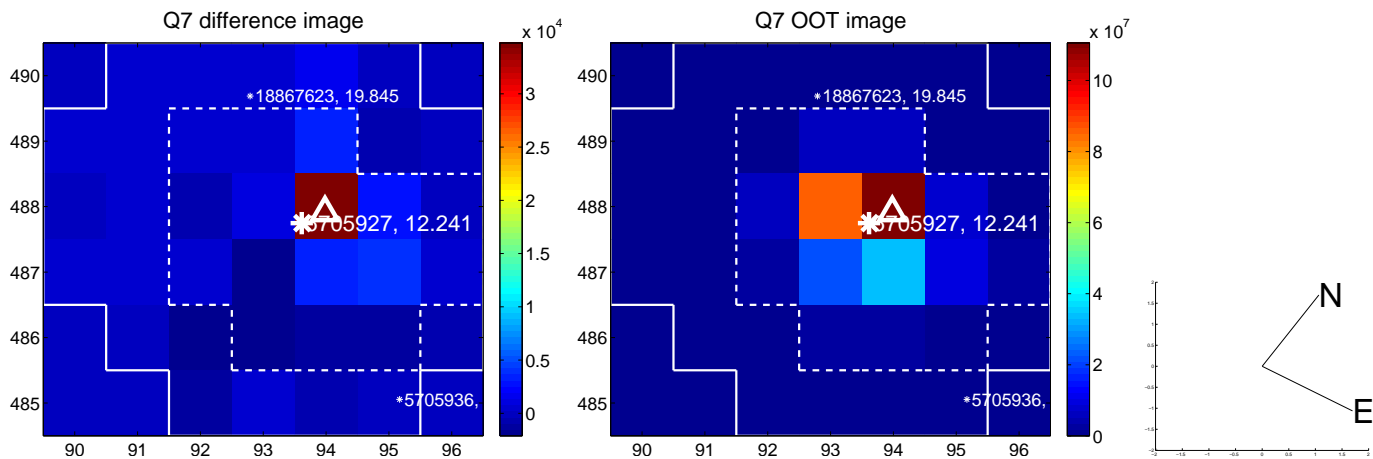
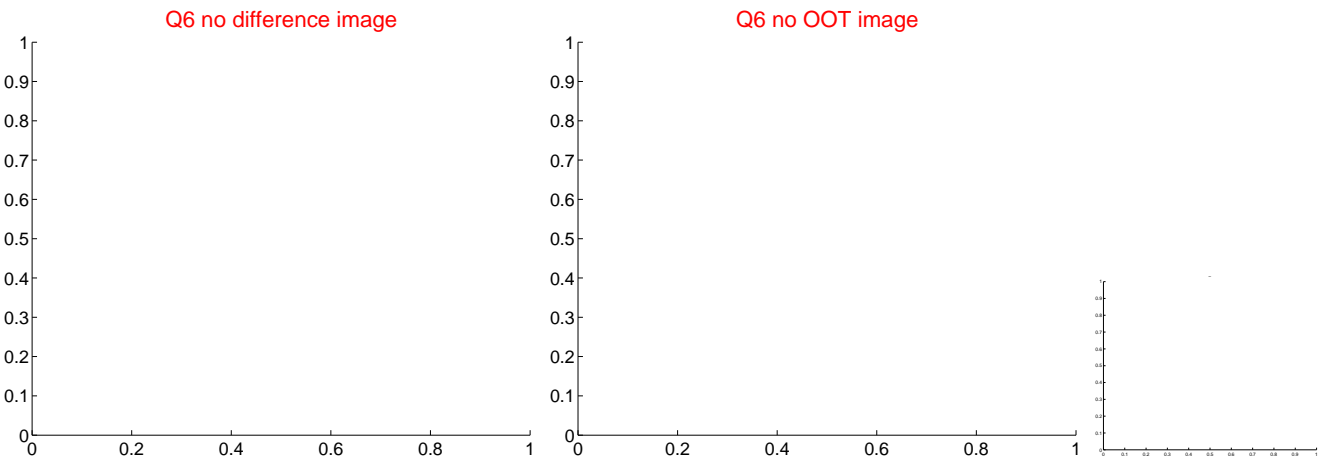
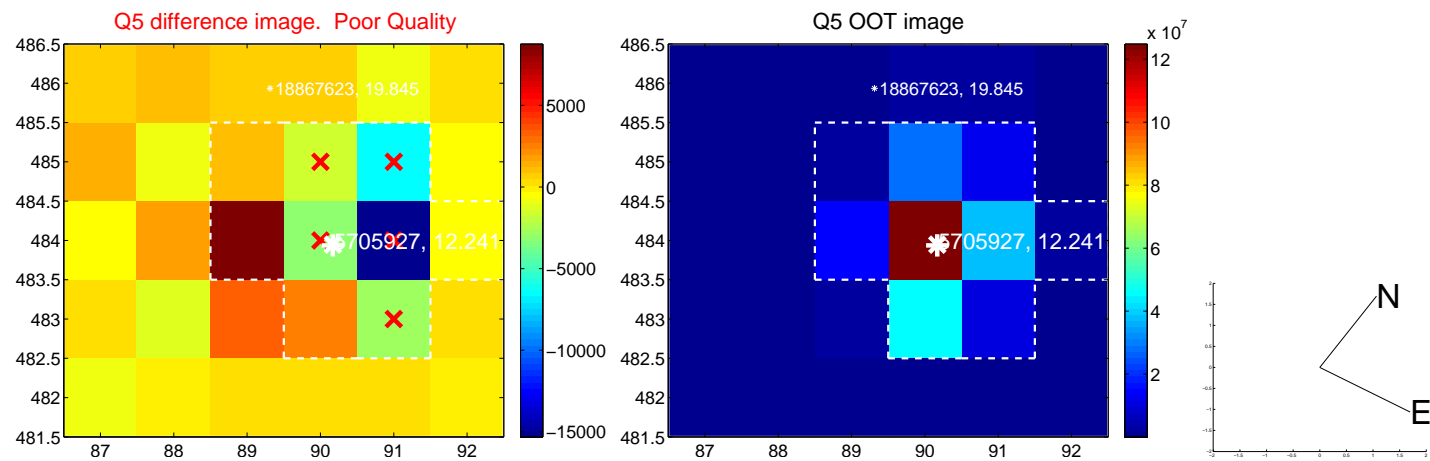


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

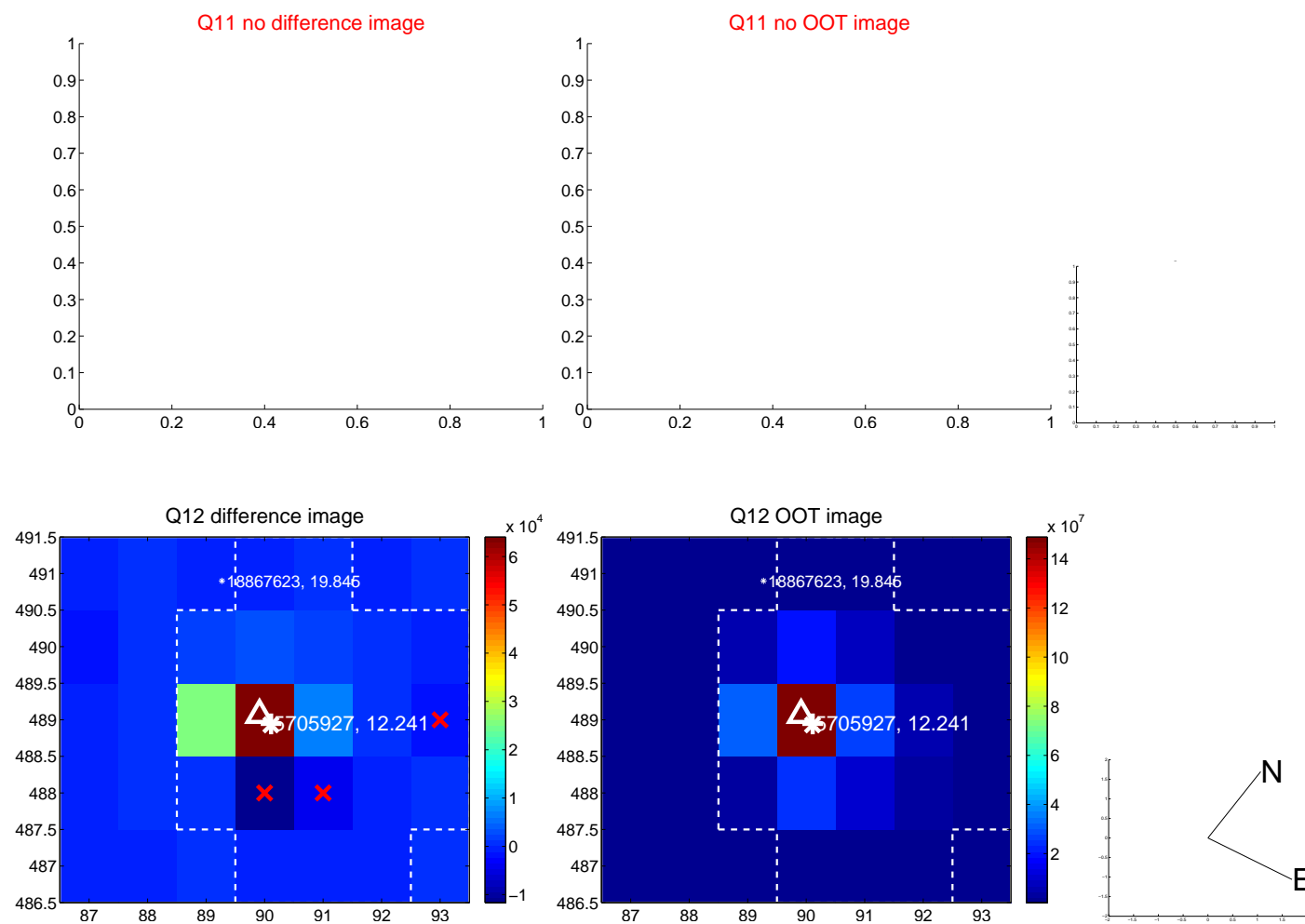
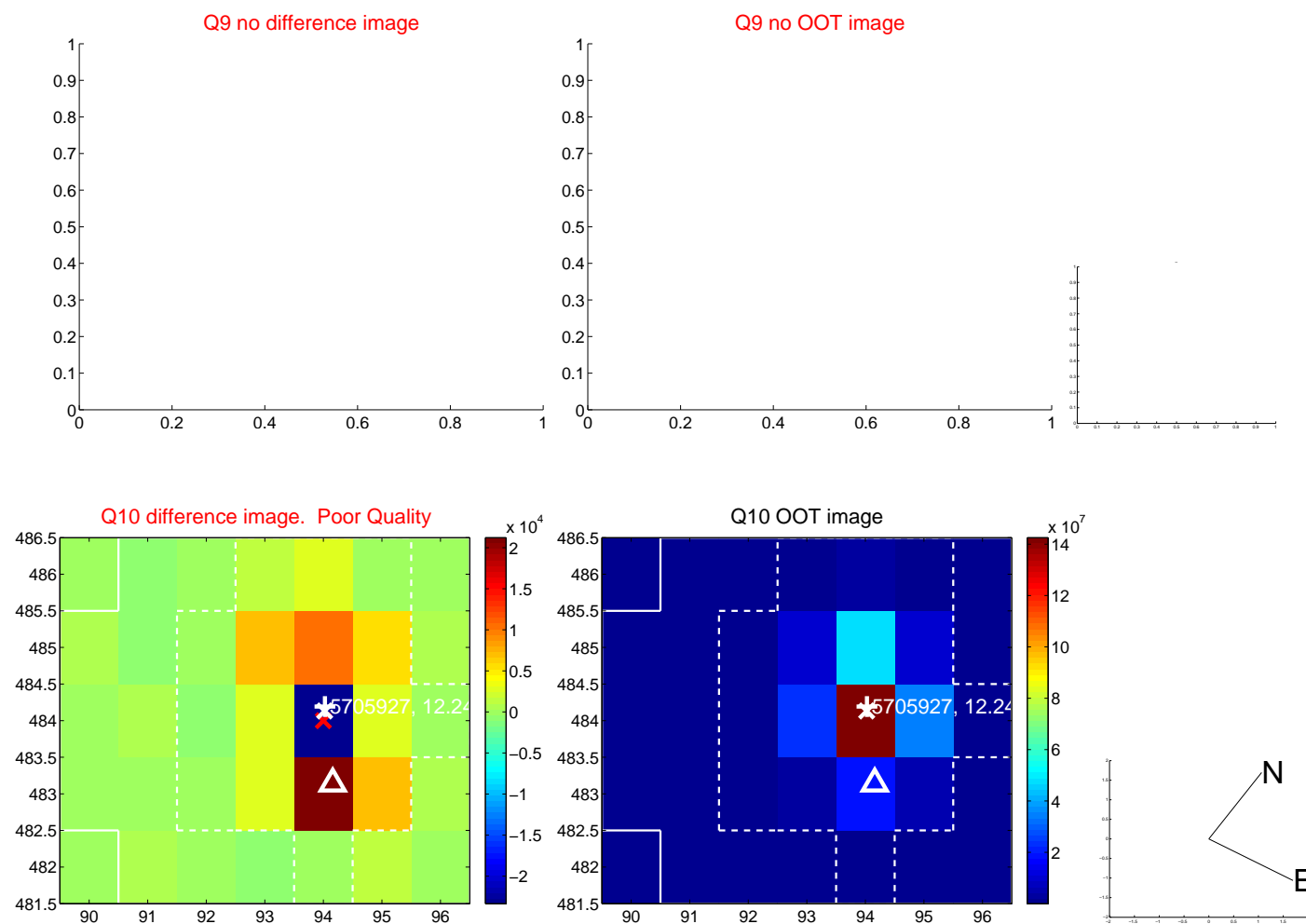
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



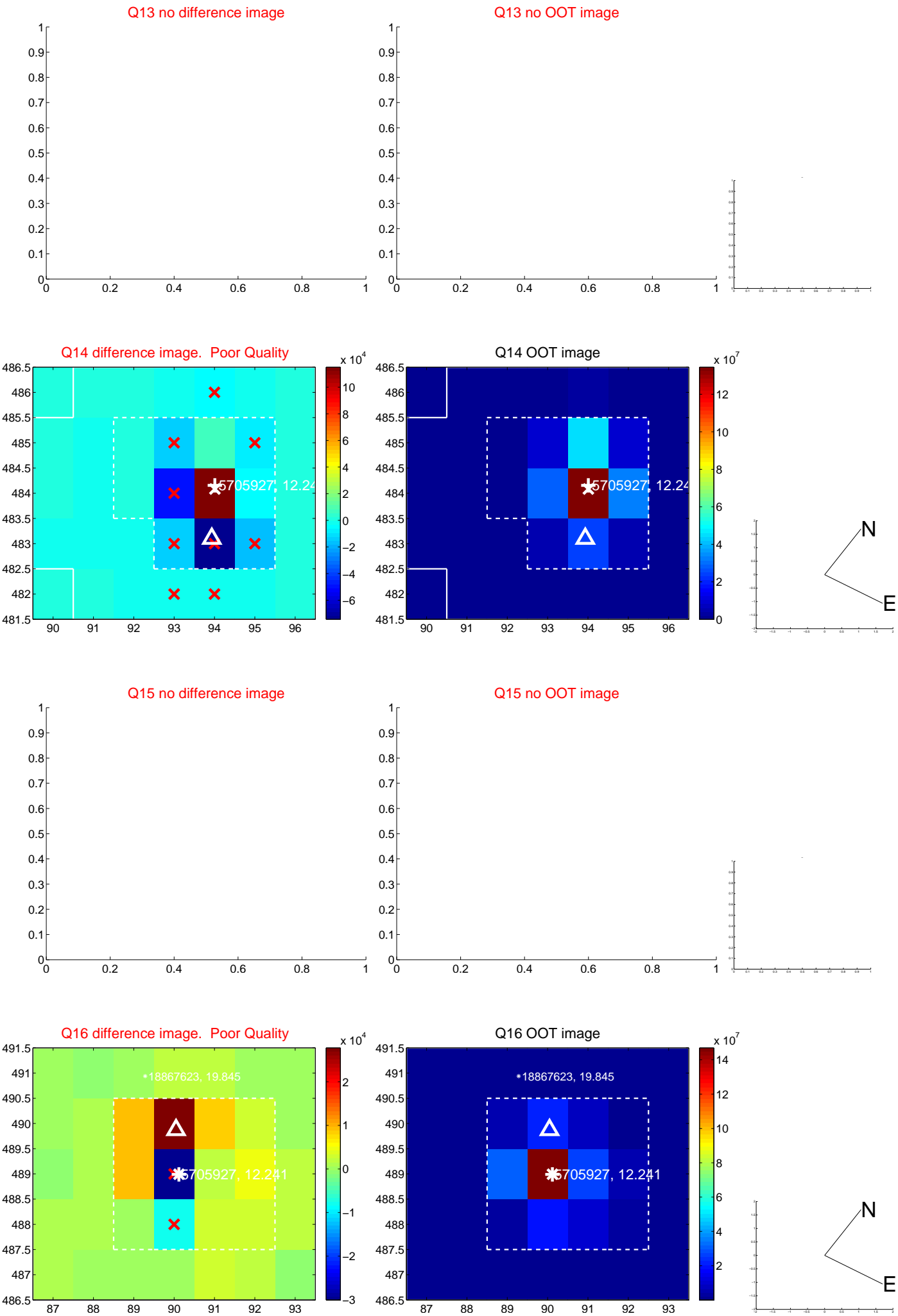
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



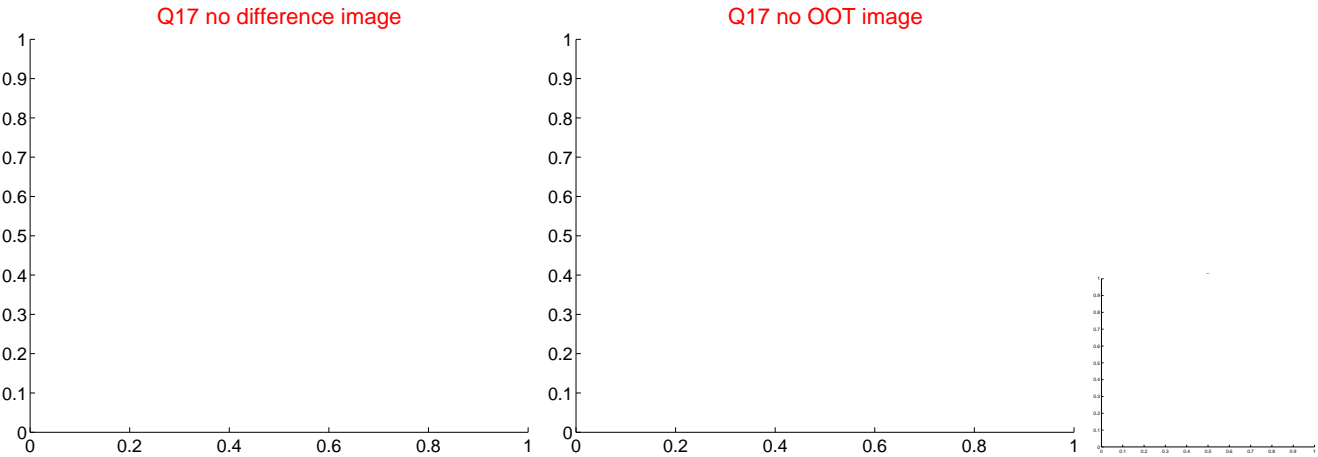
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

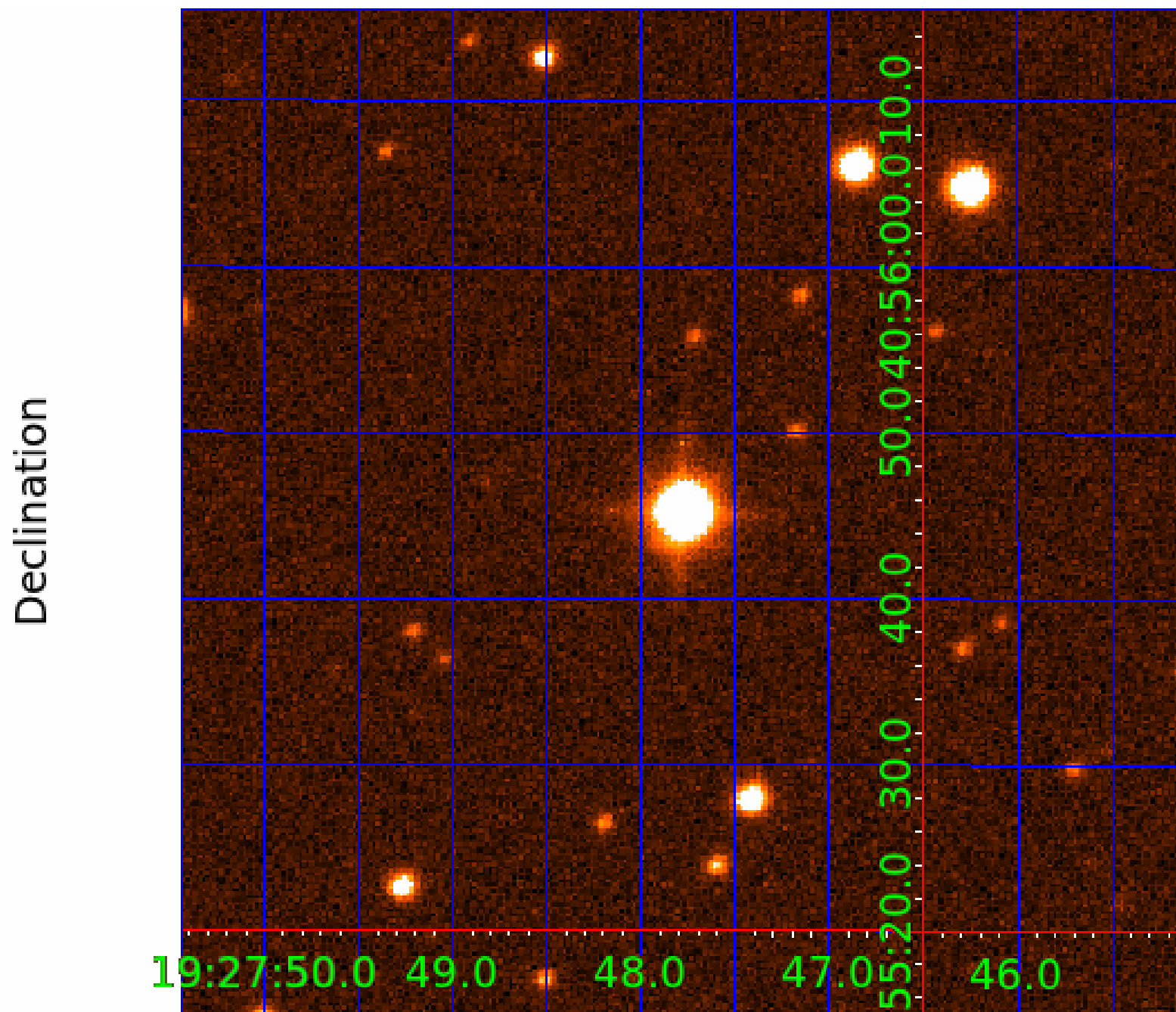


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



folded centroid time series figure for this object.

UKIRT Image



KIC 005705927

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})
005705927-01	OBS	No	1.612345	132.929104	41.9	3.817	9.3	9.9	2.68	6671	2.03	12063.68
005705927-02	OBS	No	1.612350	131.624842	38.9	3.408	9.7	9.6	2.68	6671	1.98	12063.63
005705927-03	OBS	No	1.612298	132.603138	39.2	3.856	9.6	11.1	2.68	6671	1.99	12064.15
005705927-04	OBS	No	194.428555	135.366996	316.0	8.968	8.1	8.2	2.68	6671	5.12	20.25
005705927-05	OBS	No	181.530205	262.327330	421.2	6.228	8.2	8.3	2.68	6671	6.08	22.19

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005705927-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-02	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-03	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—SAME_NTL_PERIOD
005705927-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005705927-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT

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

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

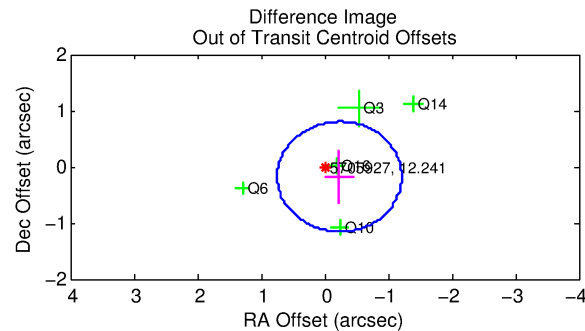
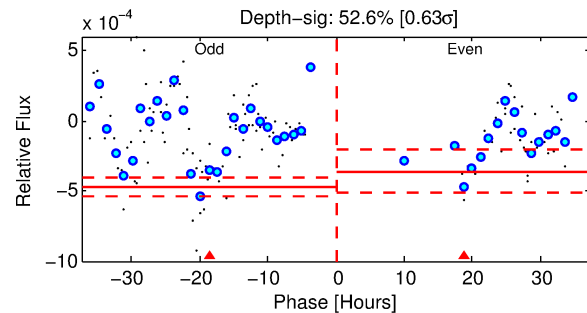
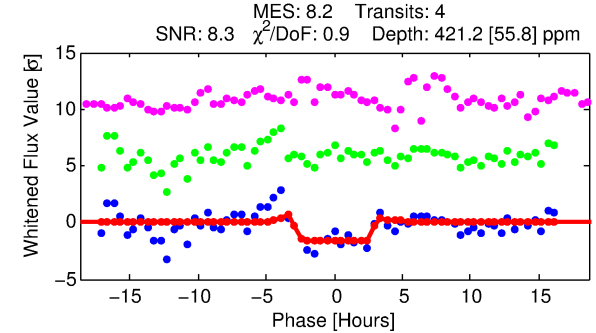
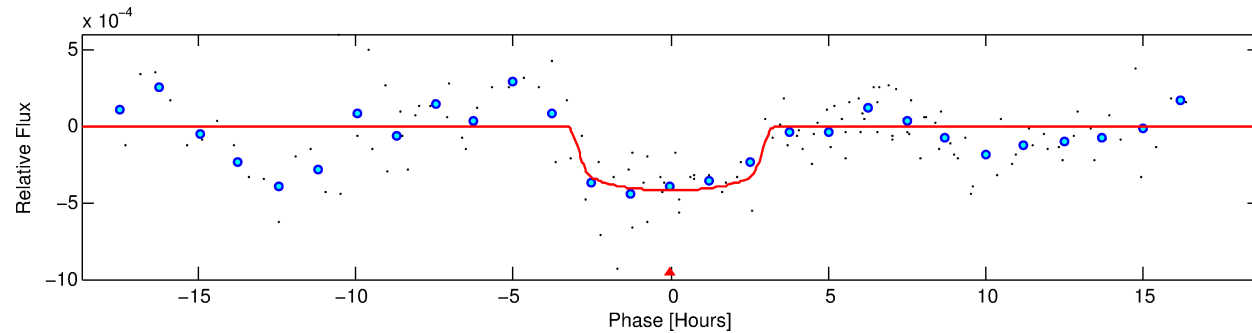
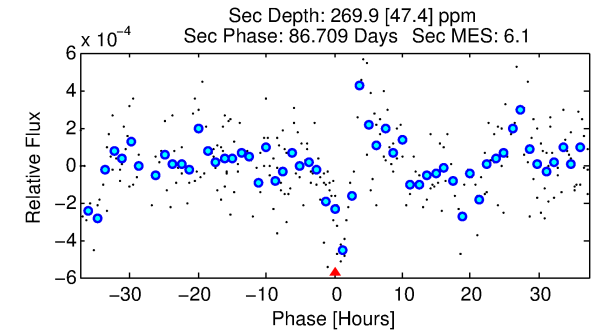
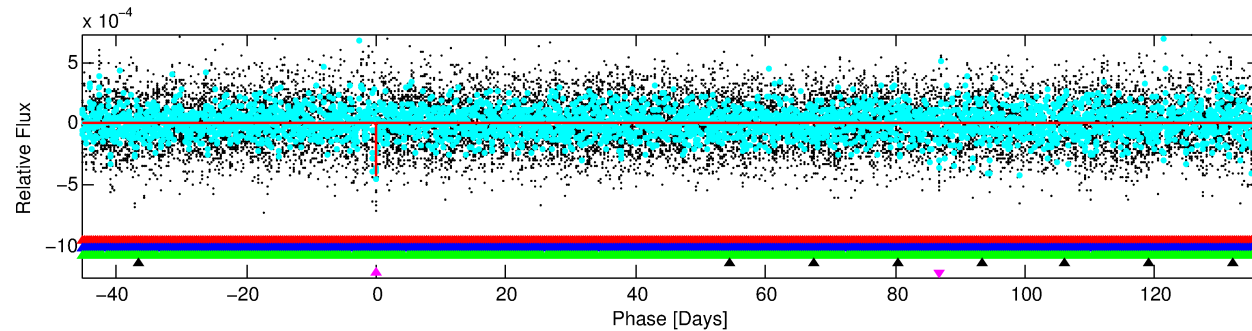
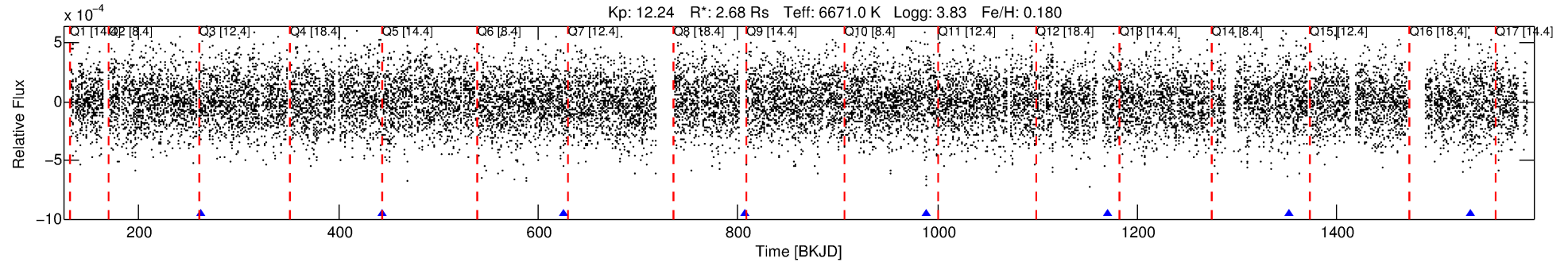
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005705927-05

No Significant Match Found

DV One-Page Summary

KIC: 5705927 Candidate: 5 of 5 Period: 181.530 d



DV Fit Results:

Period = 181.53020 [0.00281] d
Epoch = 262.3273 [0.0091] BKJD
Rp/R* = 0.0208 [0.0060]
a/R* = 139.55 [211.94]
b = 0.81 [0.66]
Seff = 22.19 [7.90]
Teff = 553 [49] K
Rp = 6.08 [2.33] Re
a = 0.7570 [0.1737] AU
Ag = 2301.14 [1599.86] [1.44σ]
Teffp = 5926 [891] K [6.02σ]

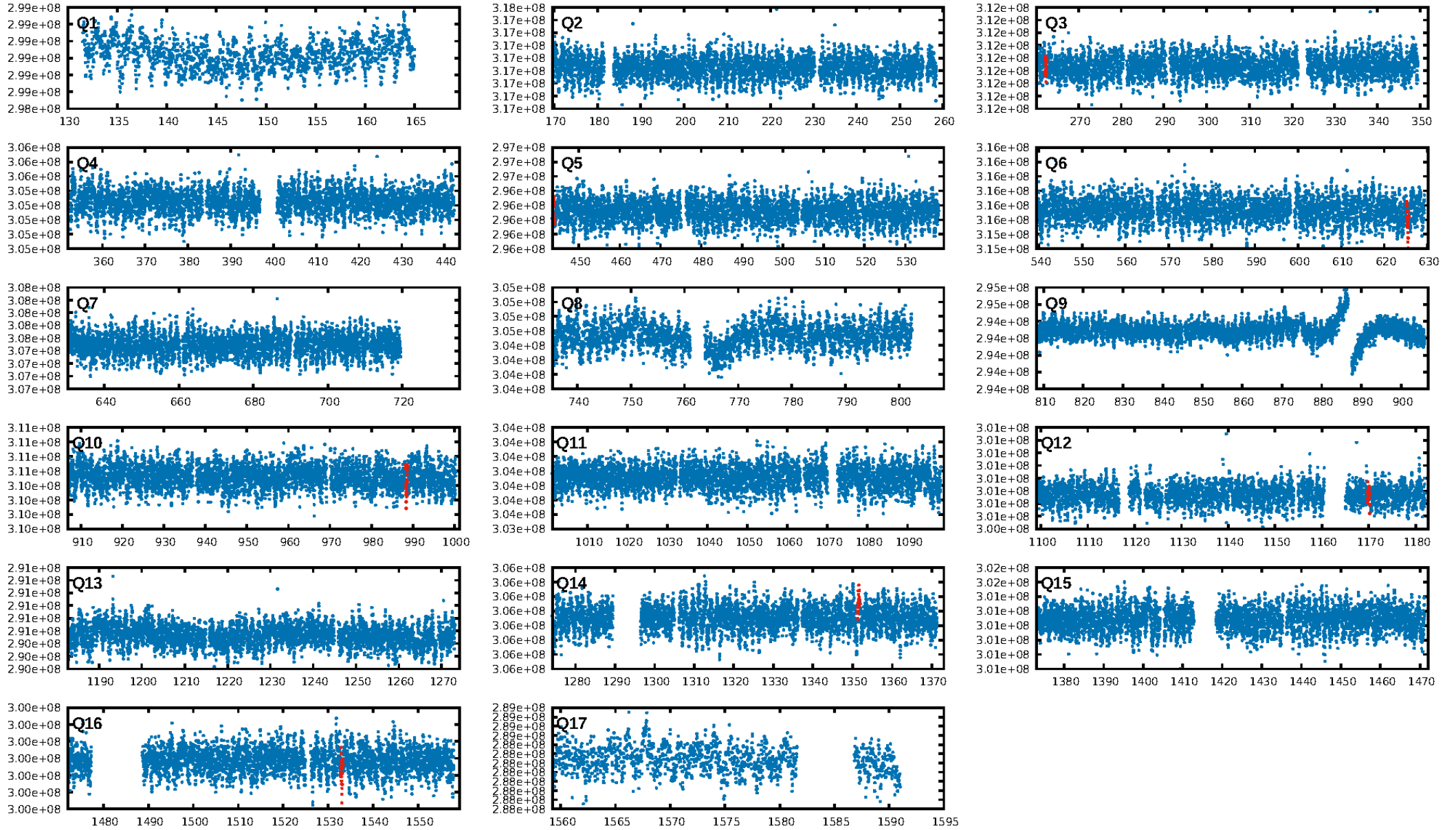
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [608.21σ]
LongPeriod-sig: 100.0% [28.35σ]
ModelChiSquare2-sig: 46.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.14e-09
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: -1.429
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 0.293 arcsec [0.90σ]
KicOffset-rm: 0.375 arcsec [0.92σ]
OotOffset-st: 3/1/1/0 [5]
KicOffset-st: 3/1/1/0 [5]
DiffImageQuality-fgm: 0.80 [4/5]
DiffImageOverlap-fno: 0.00 [0/6]

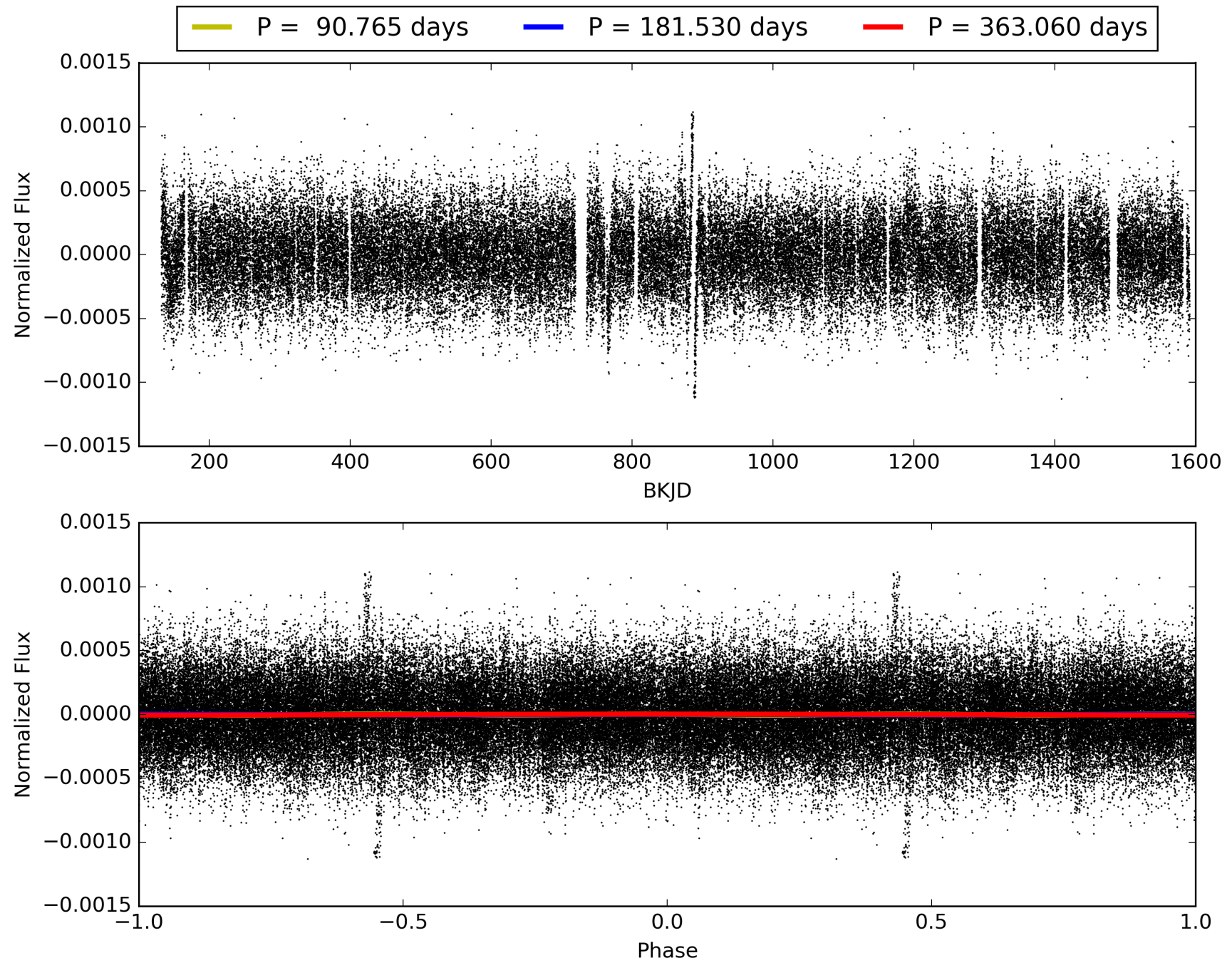
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 03-Feb-2016 04:38:56 Z

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

TCE 005705927-05, PDC Light Curves

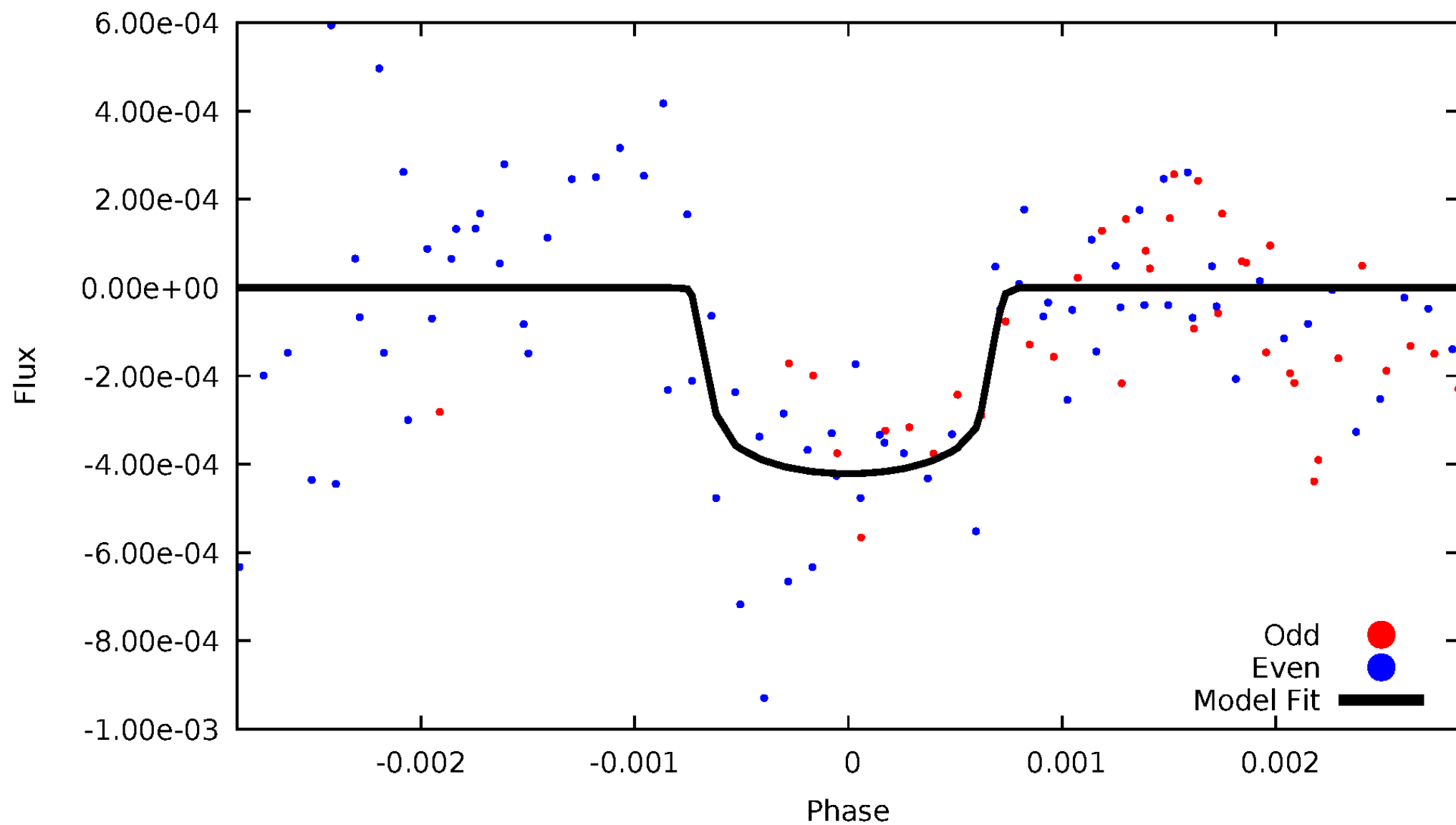


TCE 005705927-05



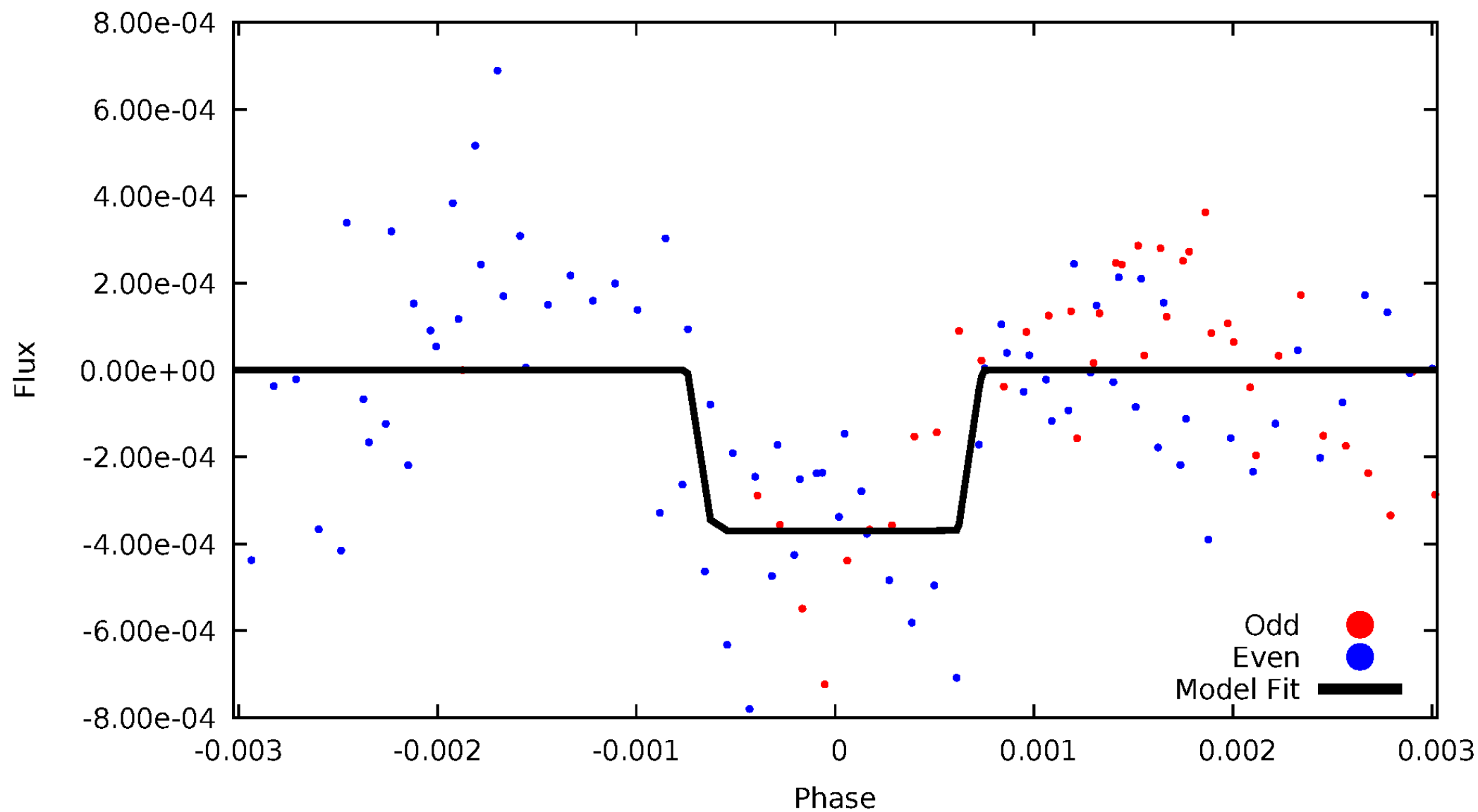
DV Odd/Even

TCE 005705927-05



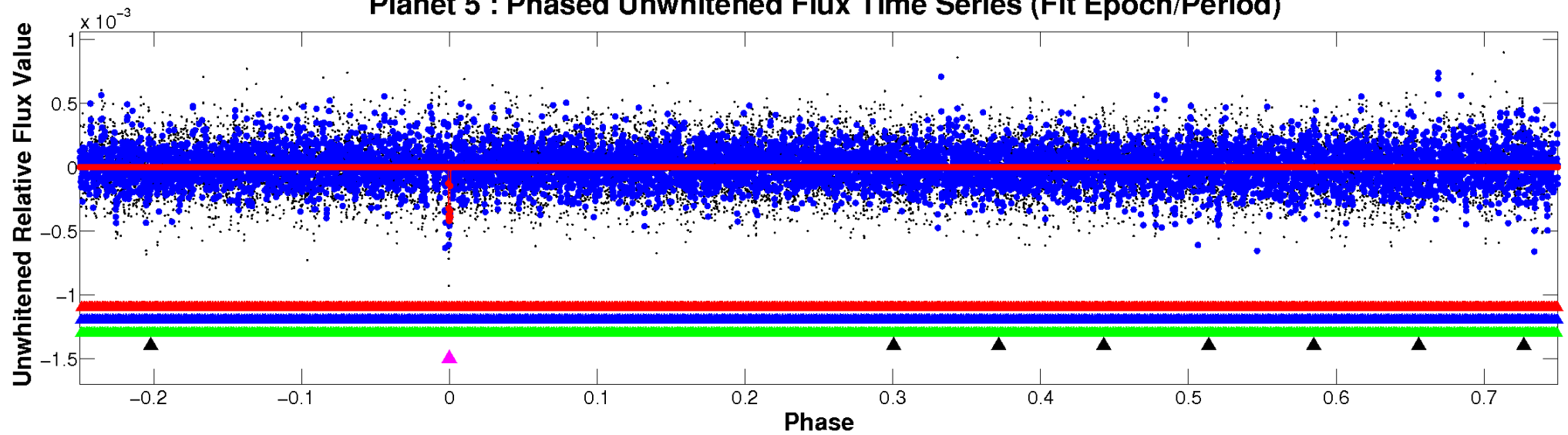
ALT Odd/Even

TCE 005705927-05

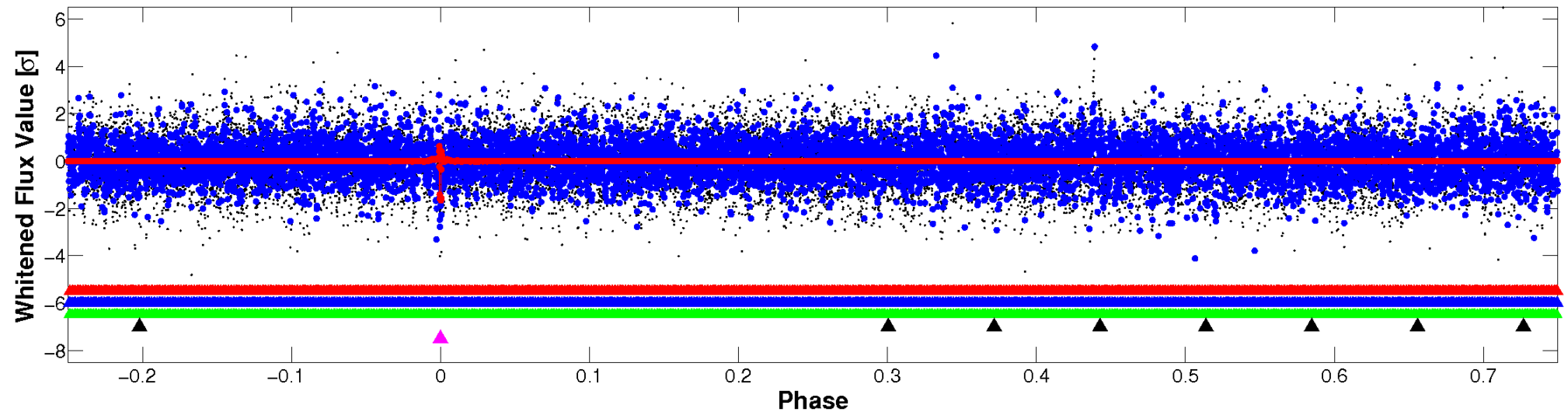


Non-Whitened Vs. Whitened Light Curve

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

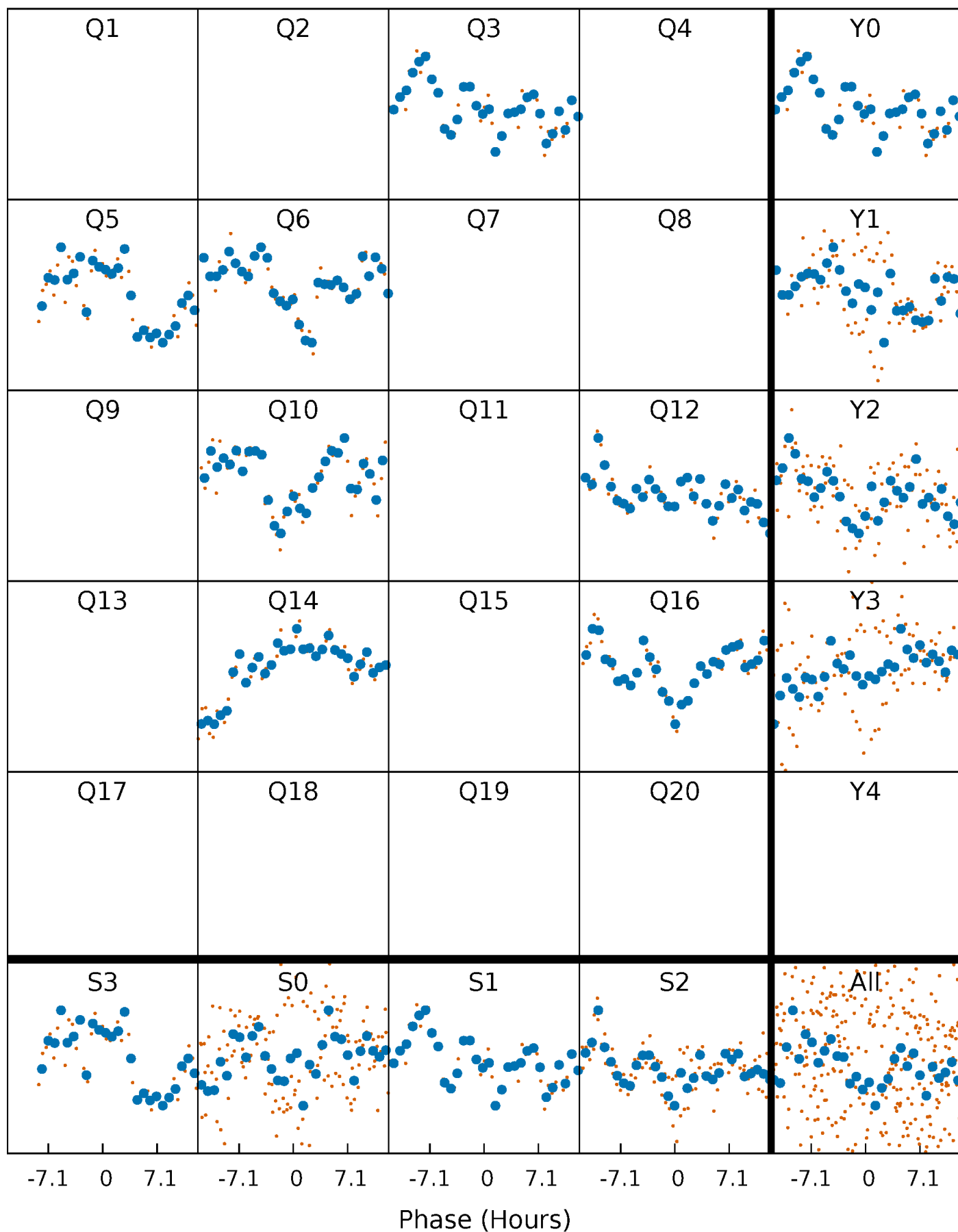


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



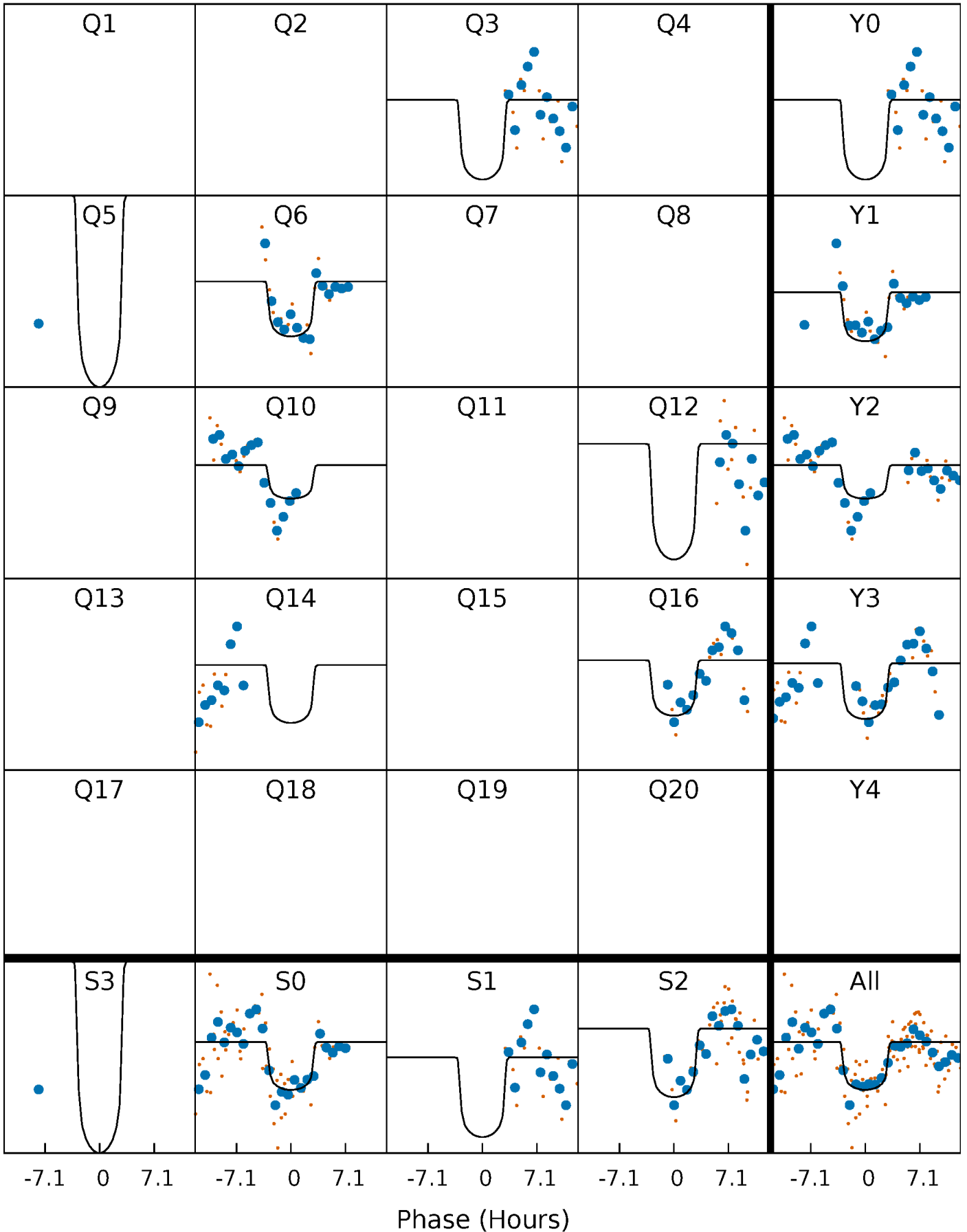
PDC Quarter-Phased Transit Curves

TCE 005705927-05 $P=181.530205$ Days $T_0=262.327330$ (BKJD)



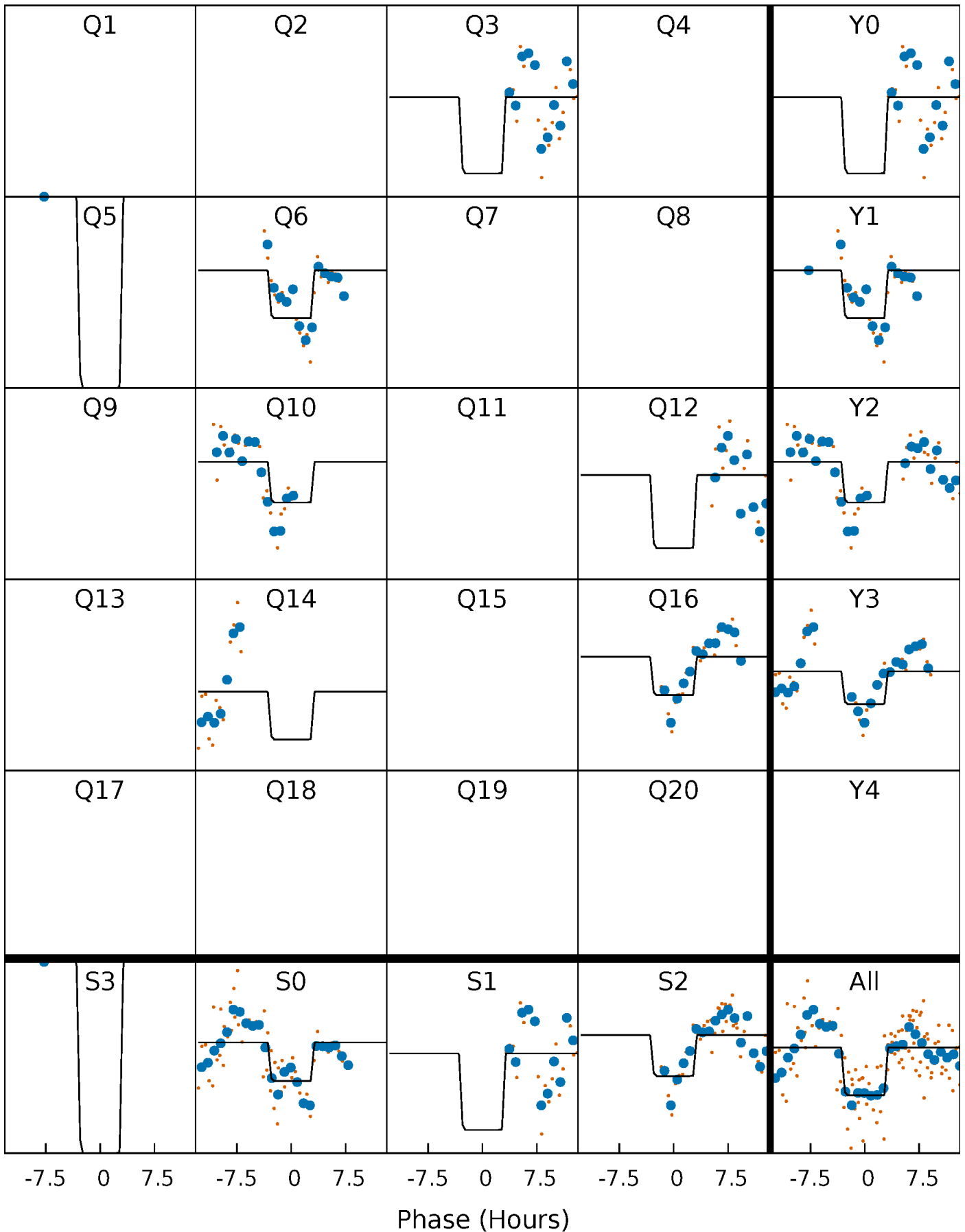
DV Quarter-Phased Transit Curves

TCE 005705927-05 $P=181.530205$ Days $T_0=262.327330$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

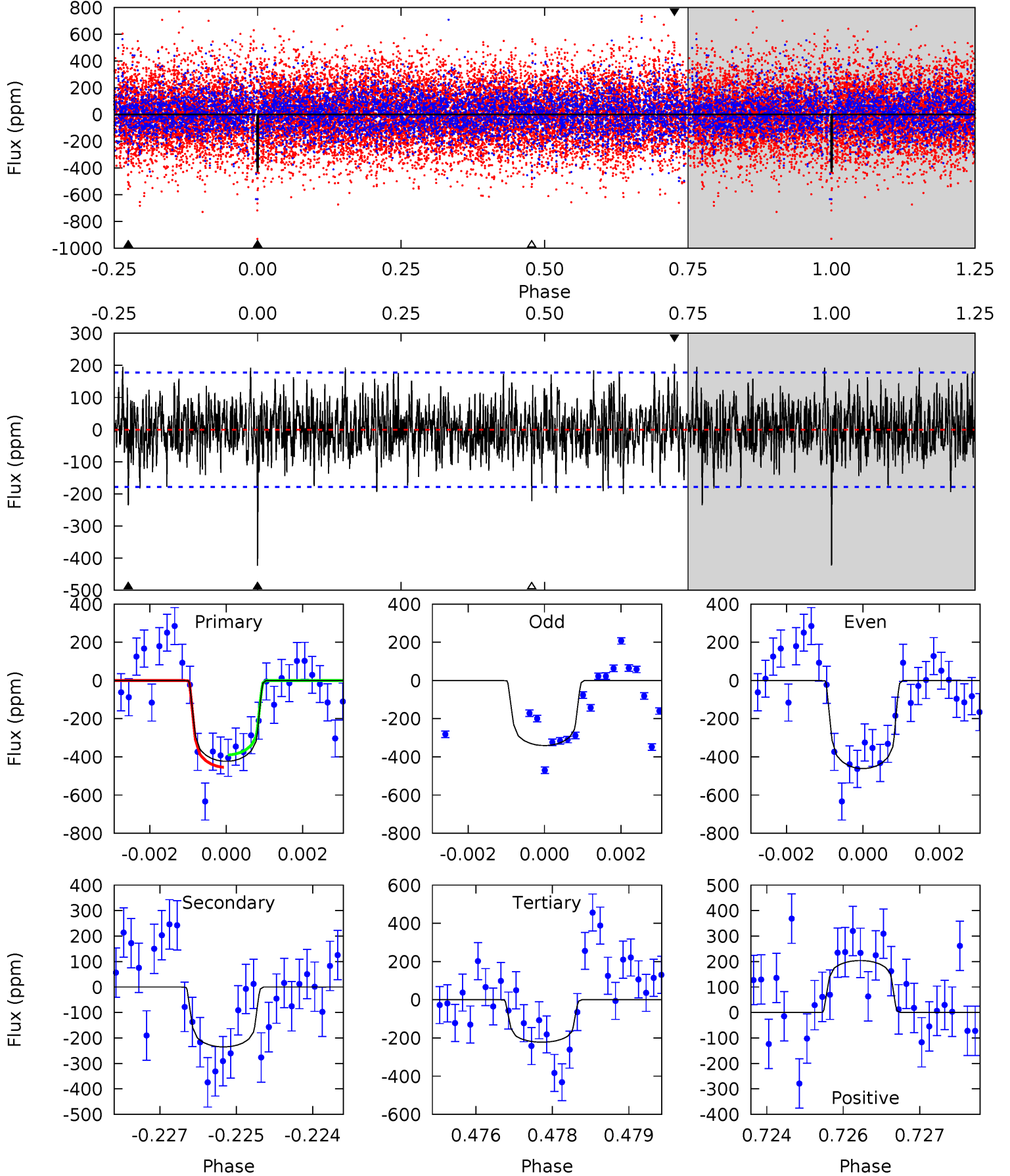
TCE 005705927-05 $P=181.534761$ Days $T_0=262.315943$ (BKJD)



DV Model-Shift Uniqueness Test

005705927-05, $P = 181.530205$ Days, $E = 80.797125$ Days

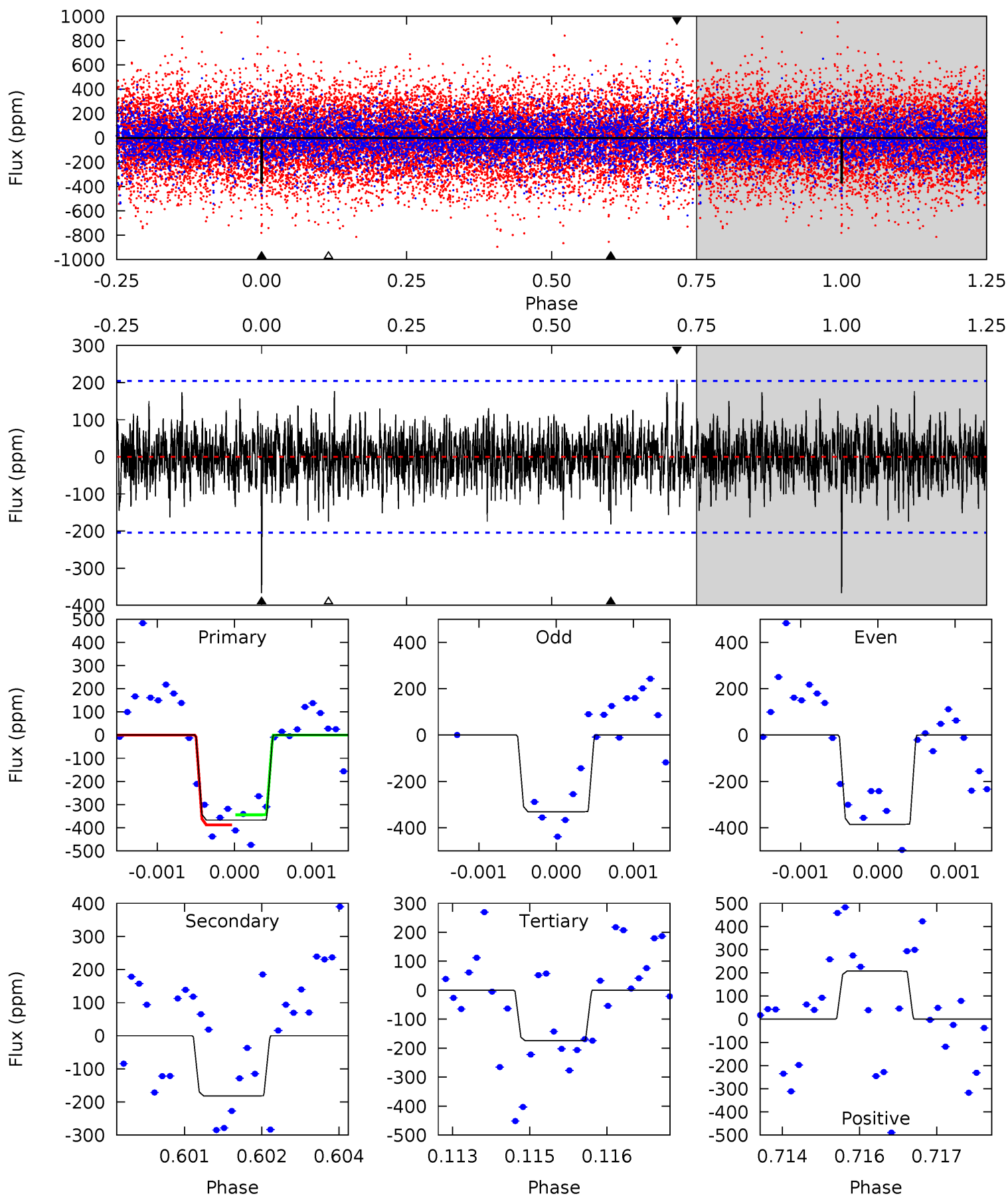
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.8	7.10	6.70	6.16	5.38	3.17	1.87	6.07	6.62	0.39	0.94	1.71	1.25	0.33	0.97



Alt Model-Shift Uniqueness Test

005705927-05, P = 181.534761 Days, E = 80.781182 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.67	4.79	4.59	5.46	5.38	3.18	1.36	5.07	4.21	0.20	-0.67	0.68	1.13	0.36	0.57



Stellar Parameters For KIC 005705927

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6671^{+73}_{-86}	$3.827^{+0.201}_{-0.108}$	$0.180^{+0.150}_{-0.150}$	$2.677^{+0.512}_{-0.682}$	$1.754^{+0.155}_{-0.224}$	$0.129^{+0.135}_{-0.050}$
	+1%/-1%	+5%/-3%	+83%/-83%	+19%/-25%	+9%/-13%	+105%/-39%
Source	SPE68	SPE68	SPE68	DSEP		

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

Secondary Eclipse Parameters for KIC 005705927-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-235 ± 33	$5.84^{+1.90}_{-1.79}$	768^{+37}_{-48}	5761^{+1036}_{-693}	2172^{+2185}_{-950}
Alt.	-182 ± 38	$5.45^{+2.02}_{-1.79}$	767^{+39}_{-49}	5556^{+1202}_{-656}	1937^{+2256}_{-941}

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

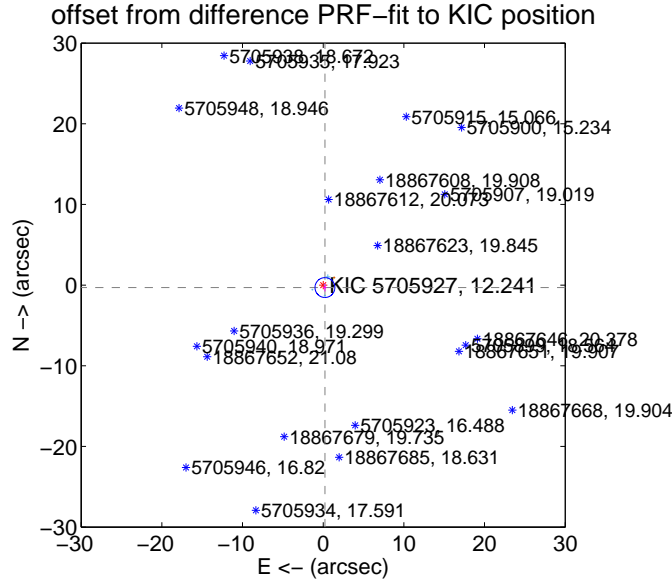
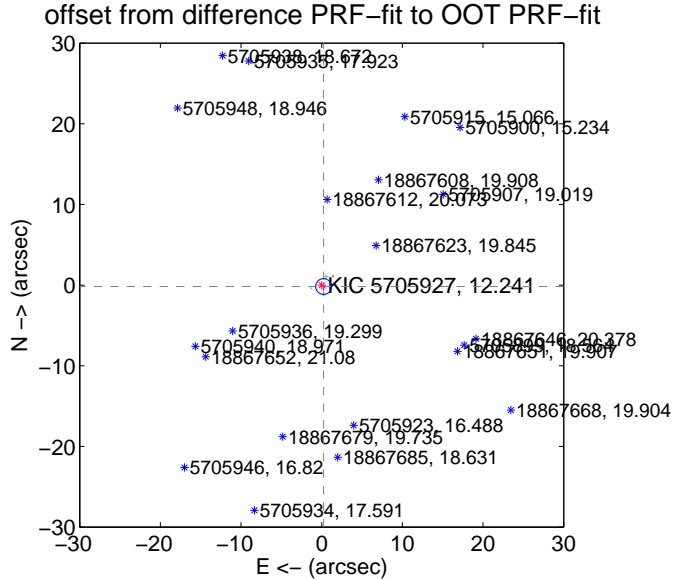
DV Centroid Data

Supplemental centroid analysis for 005705927-05. Kepler magnitude: 12.24. Transit SNR 8.29

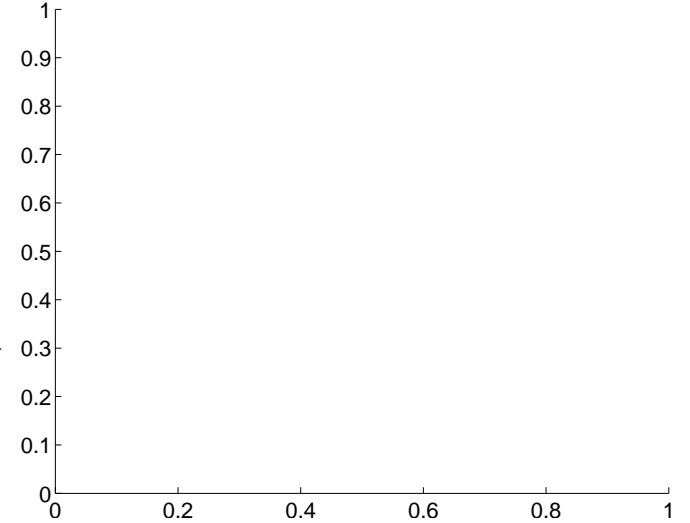
There are 4 quarters with good PRF difference image offsets

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

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.293 ± 0.326	0.90	-0.233 ± 0.215	-0.178 ± 0.458
PRF-fit source offset from KIC position	0.375 ± 0.410	0.92	-0.218 ± 0.218	-0.306 ± 0.480
photometric centroid source offset	—	—	—	—



There are no 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.

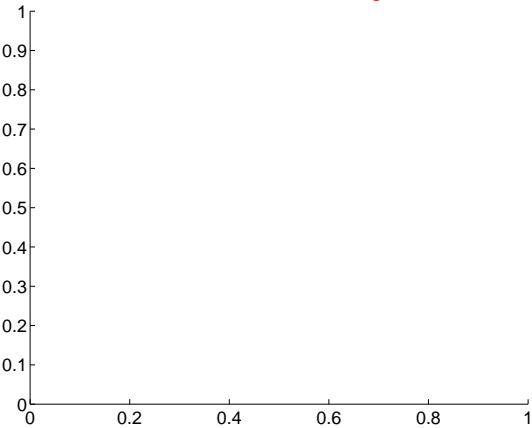
Q1 no difference image



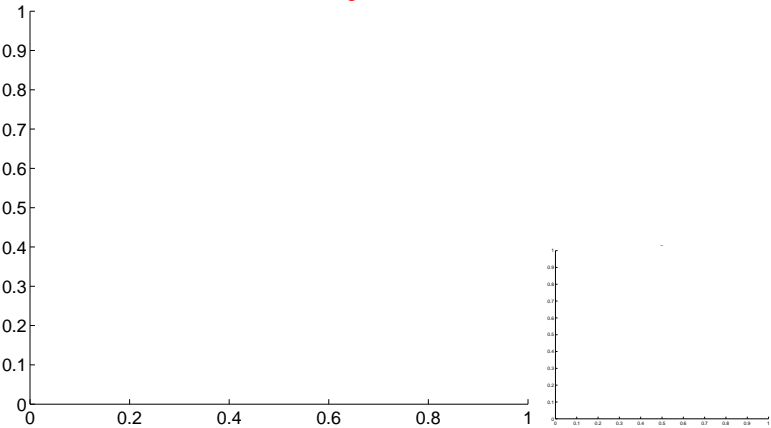
Q1 no OOT image



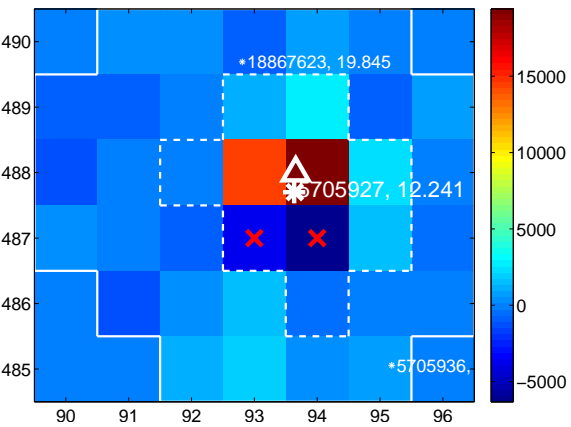
Q2 no difference image



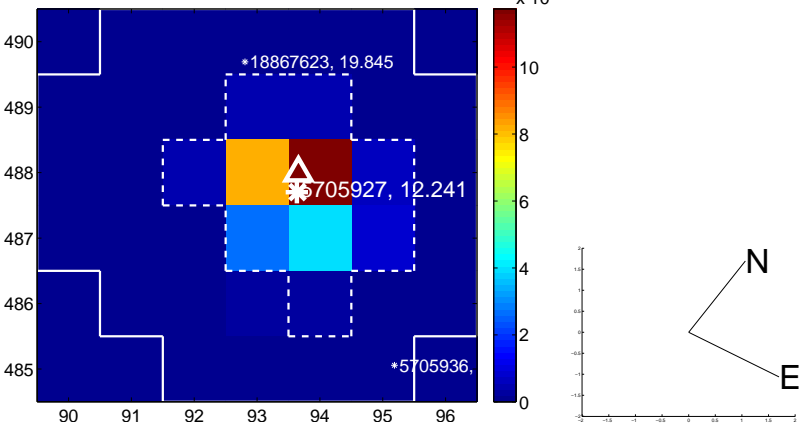
Q2 no OOT image



Q3 difference image



Q3 OOT image



Q4 no difference image



Q4 no OOT image



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

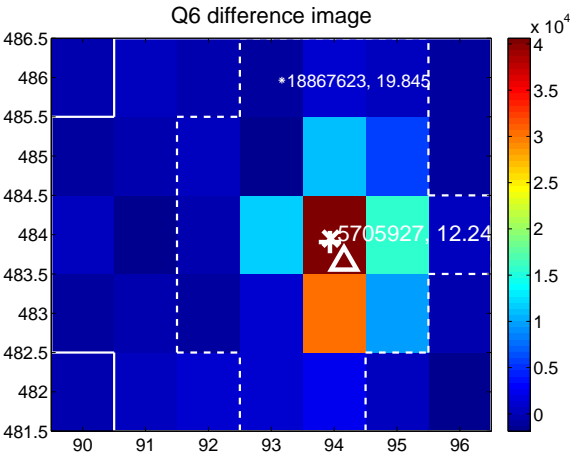
Q5 no difference image



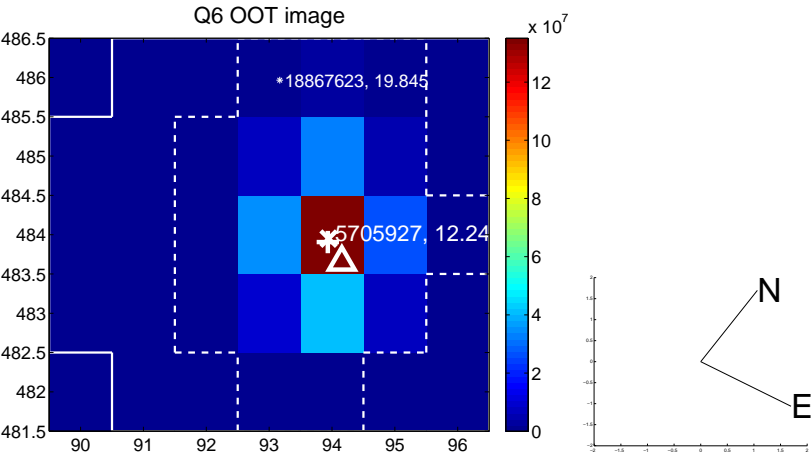
Q5 no OOT image



Q6 difference image



Q6 OOT image



Q7 no difference image



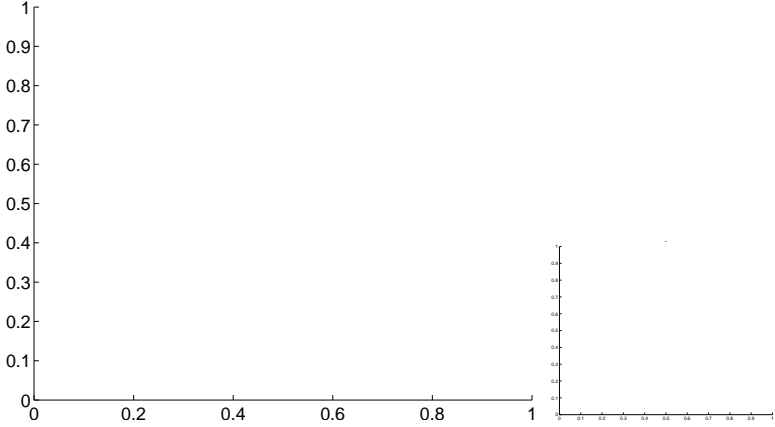
Q7 no OOT image



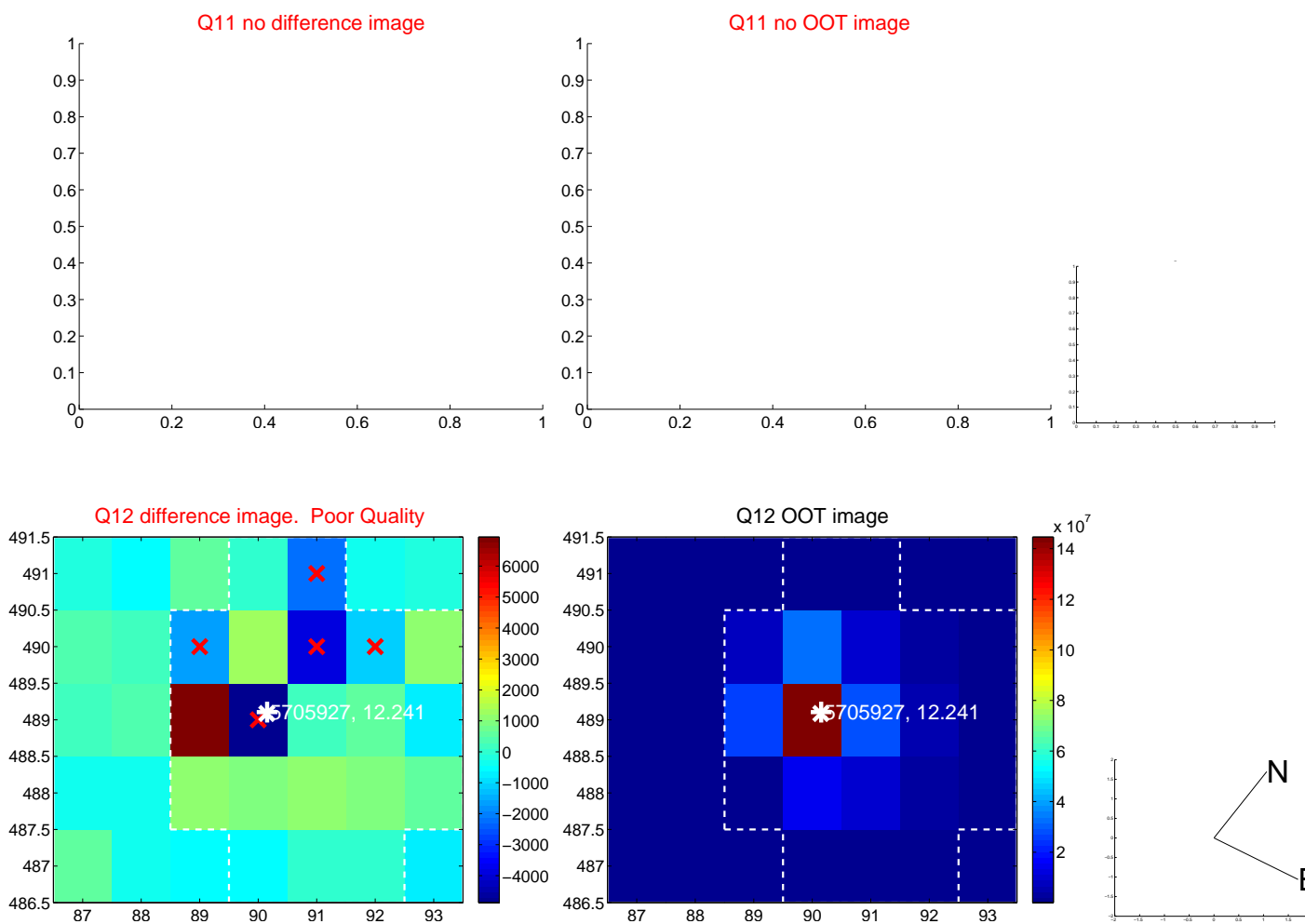
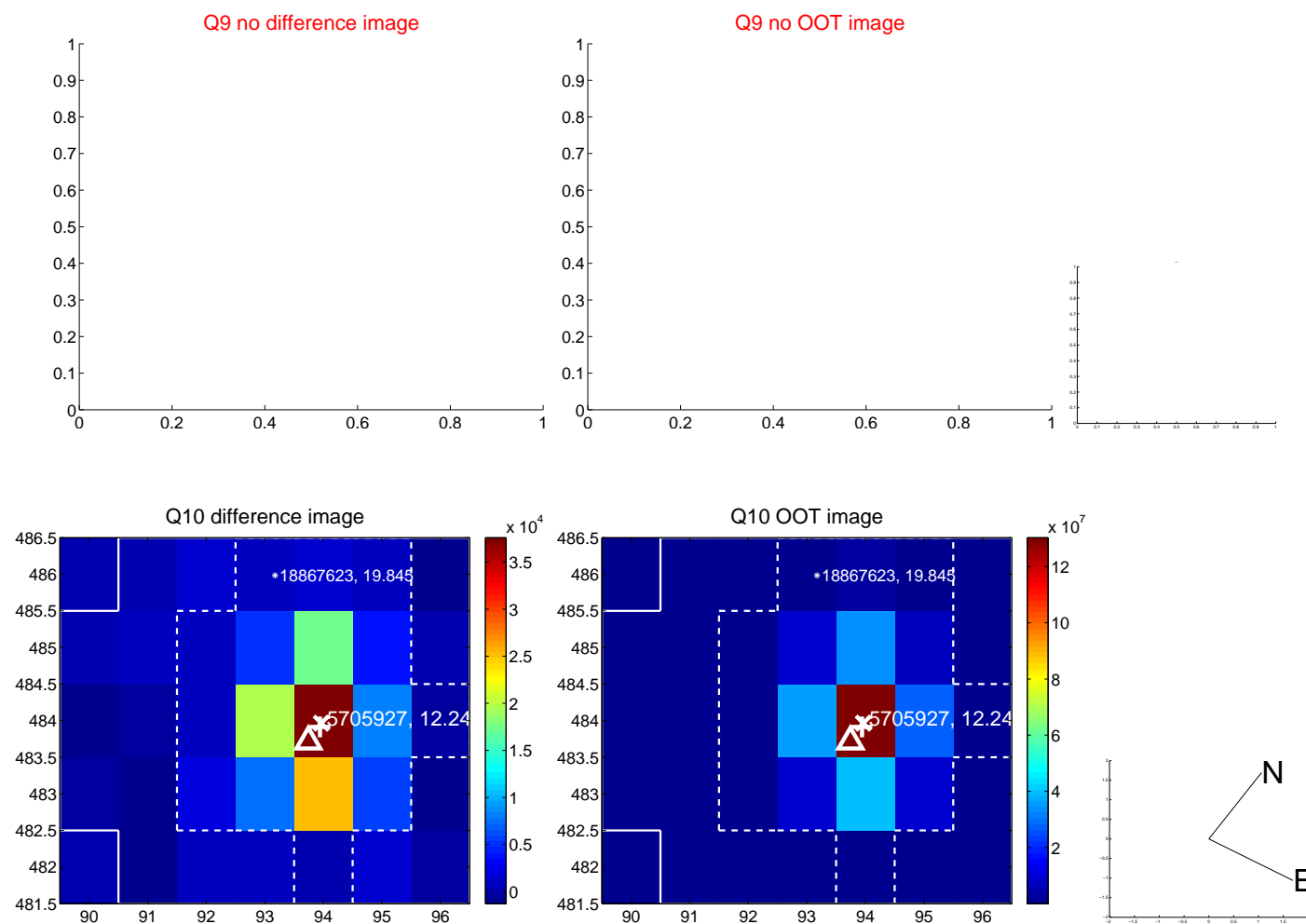
Q8 no difference image



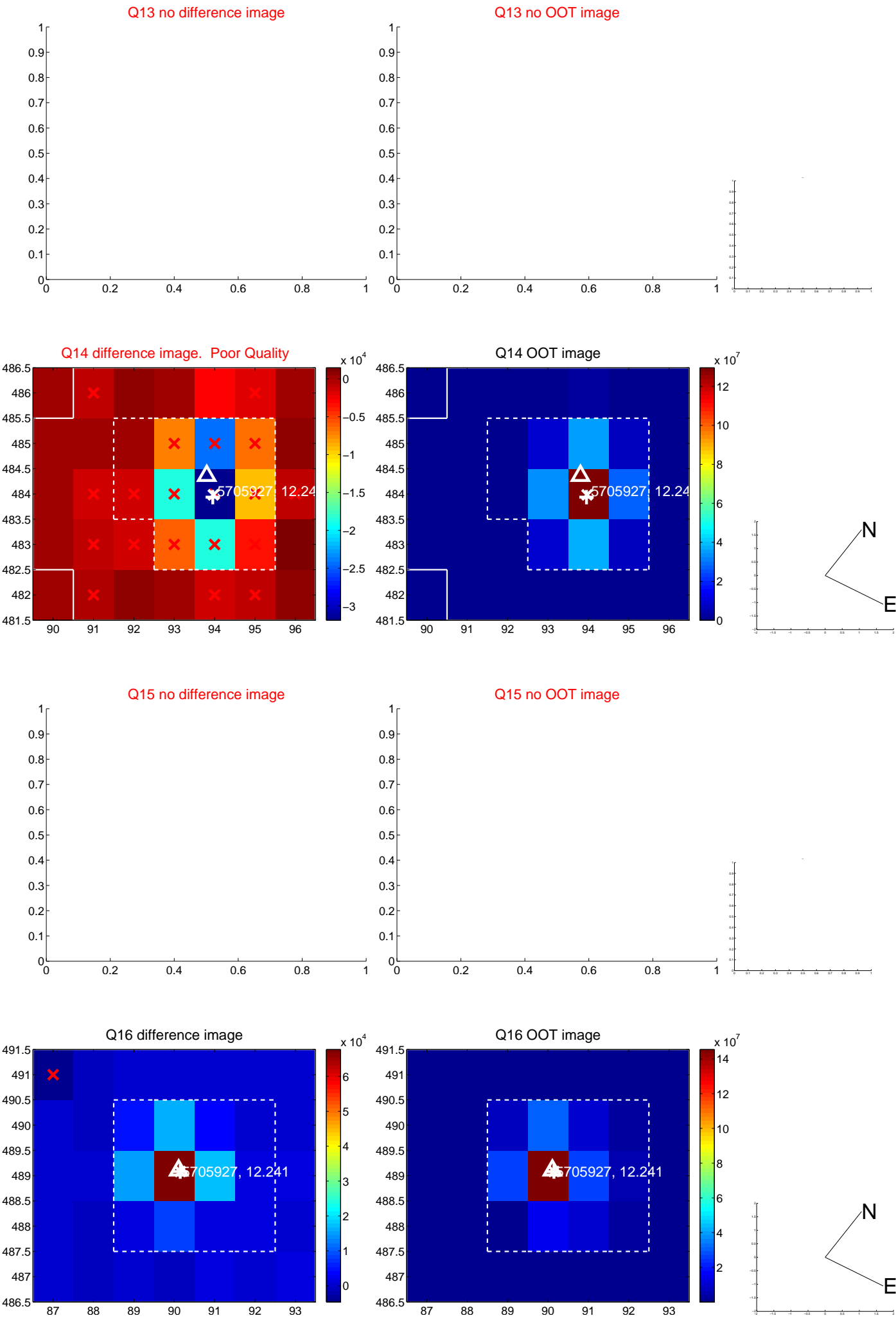
Q8 no OOT image



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



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



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



folded centroid time series figure for this object.

UKIRT Image

