

KIC 010925227

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})
010925227-01	OBS	No	6.452070	137.542779	43.4	4.585	9.8	9.5	2.16	8633	1.62	2960.15
010925227-02	OBS	No	6.452123	131.657027	57.8	3.000	8.2	-1.0	2.16	8633	1.67	2960.12
010925227-03	OBS	No	1.613031	131.923059	4.0	3.549	8.2	1.8	2.16	8633	0.50	18795.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010925227-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
010925227-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED
010925227-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

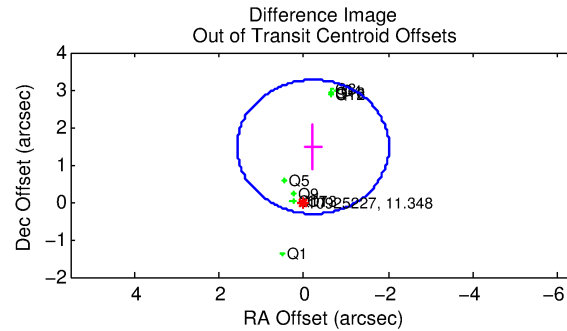
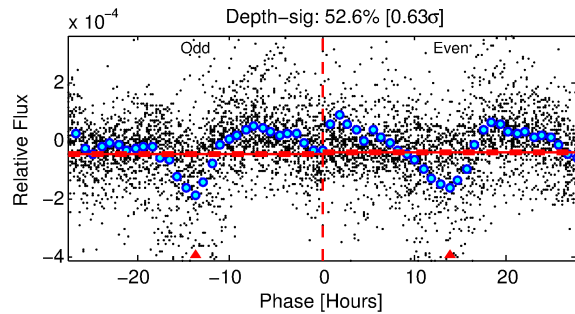
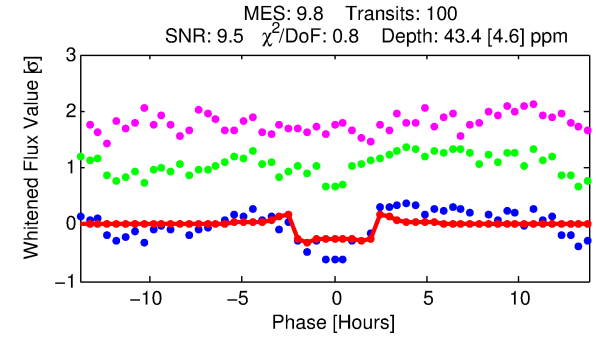
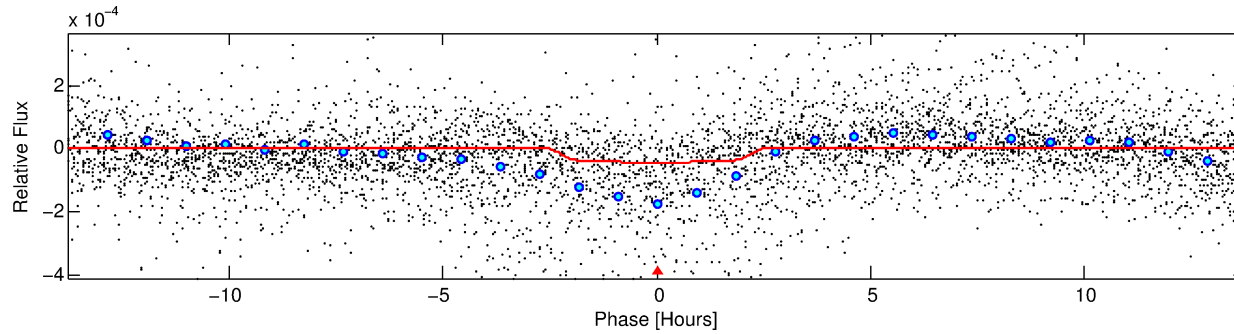
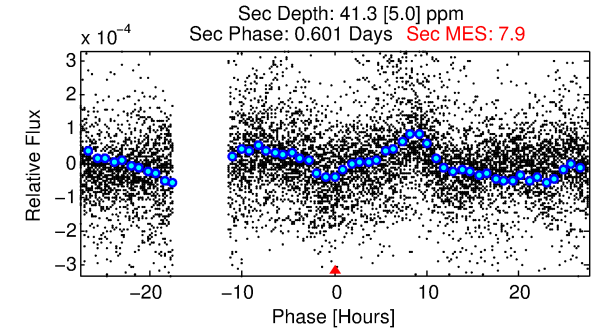
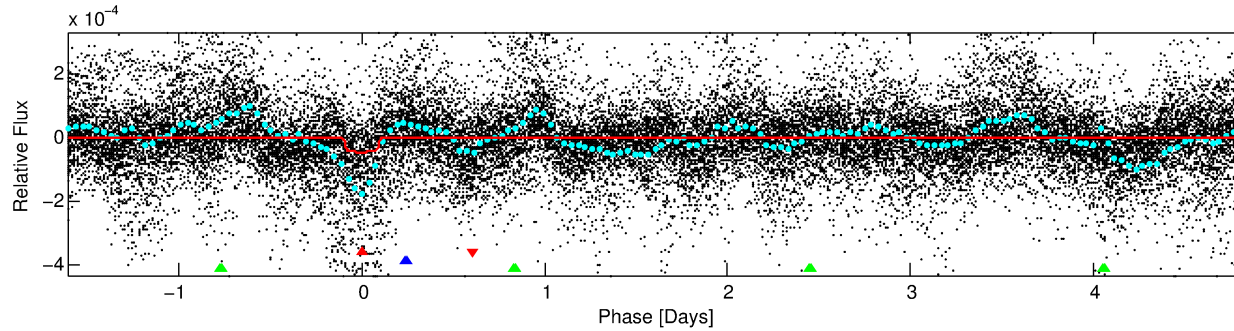
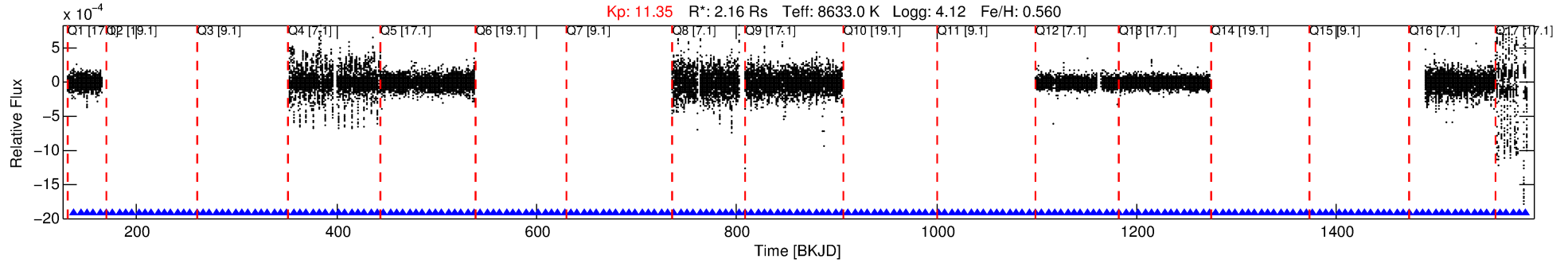
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010925227-01

No Significant Match Found

DV One-Page Summary

KIC: 10925227 Candidate: 1 of 3 Period: 6.452 d



DV Fit Results:

Period = 6.45207 [0.00003] d
Epoch = 137.5428 [0.0038] BKJD
Rp/R* = 0.0069 [0.0011]
a/R* = 5.57 [5.44]
b = 0.87 [0.29]
Seff = 2960.15 [1914.11]
Teff = 1881 [304] K
Rp = 1.62 [0.90] Re
a = 0.0887 [0.0375] AU
Ag = 68.32 [46.03] [1.46σ]
Teffp = 8361 [940] K [6.56σ]

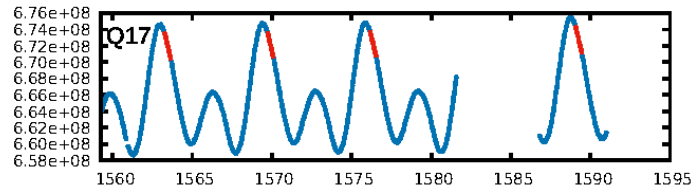
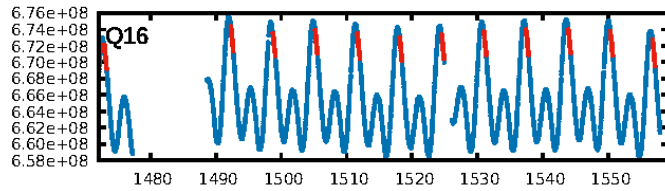
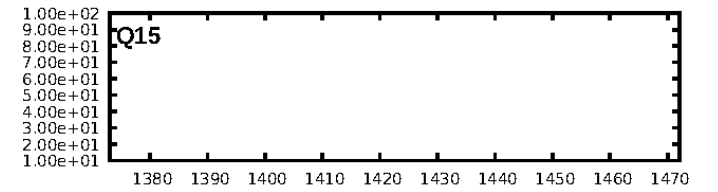
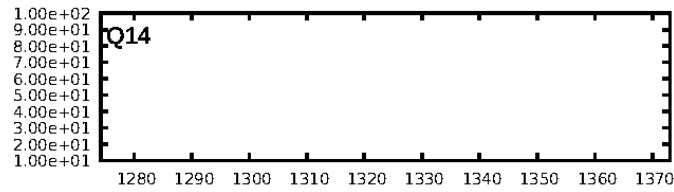
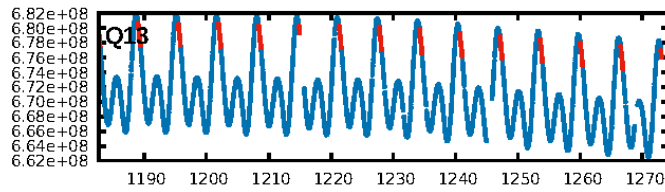
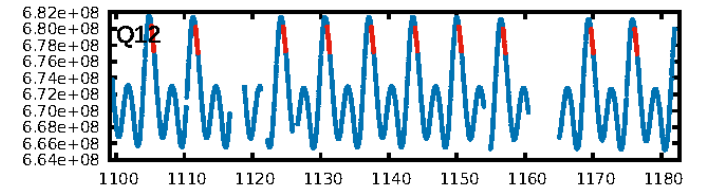
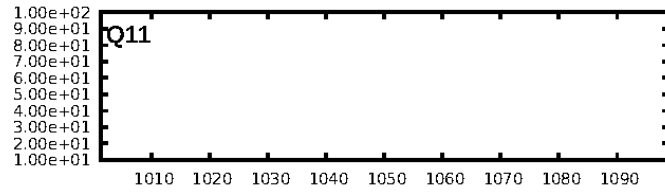
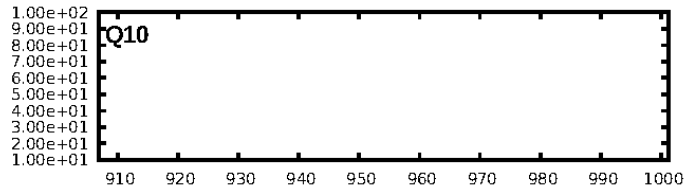
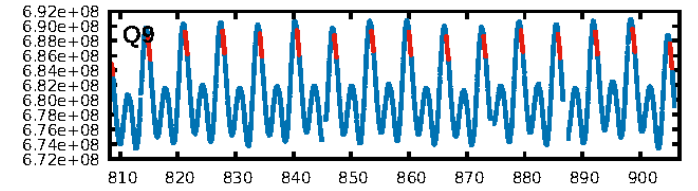
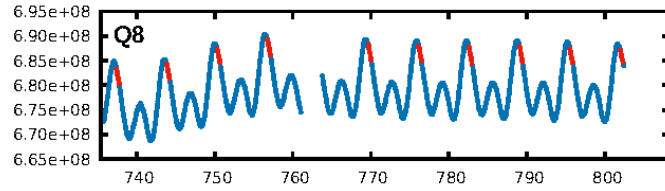
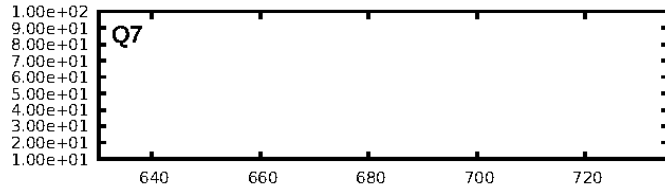
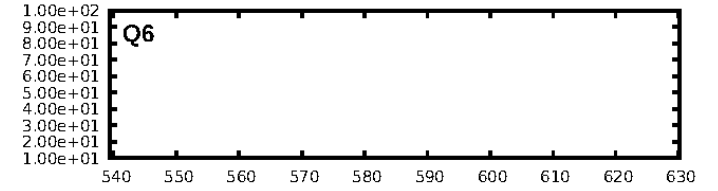
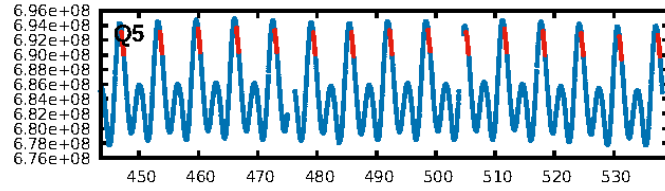
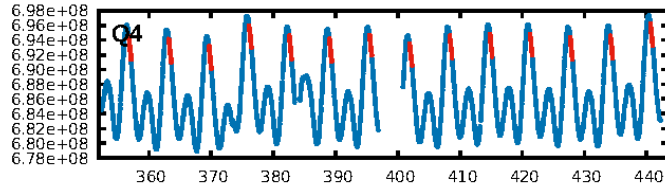
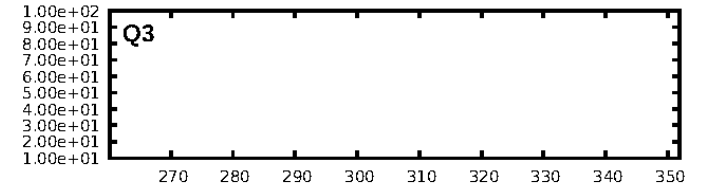
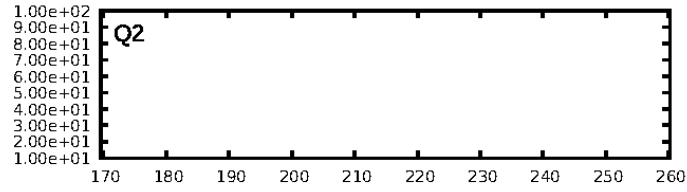
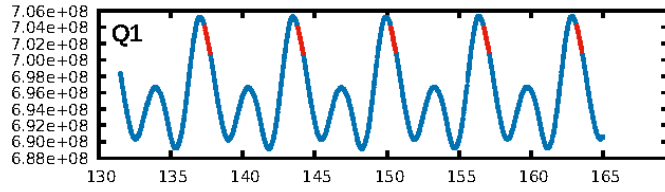
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [20.03σ]
LongPeriod-sig: 0.0% [0.00σ]
ModelChiSquare2-sig: 6.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 7.92e-18
RollingBand-fgt: 1.00 [91/91]
GhostDiagnostic-chr: -0.05184
Centroid-sig: N/A
Centroid-so: 1.027 arcsec [1.19σ]
OotOffset-rm: 1.492 arcsec [2.50σ]
OotOffset-st: 0/0/4/5 [9]
KicOffset-rm: 1.462 arcsec [2.51σ]
KicOffset-st: 0/0/4/5 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 0.00 [0/9]

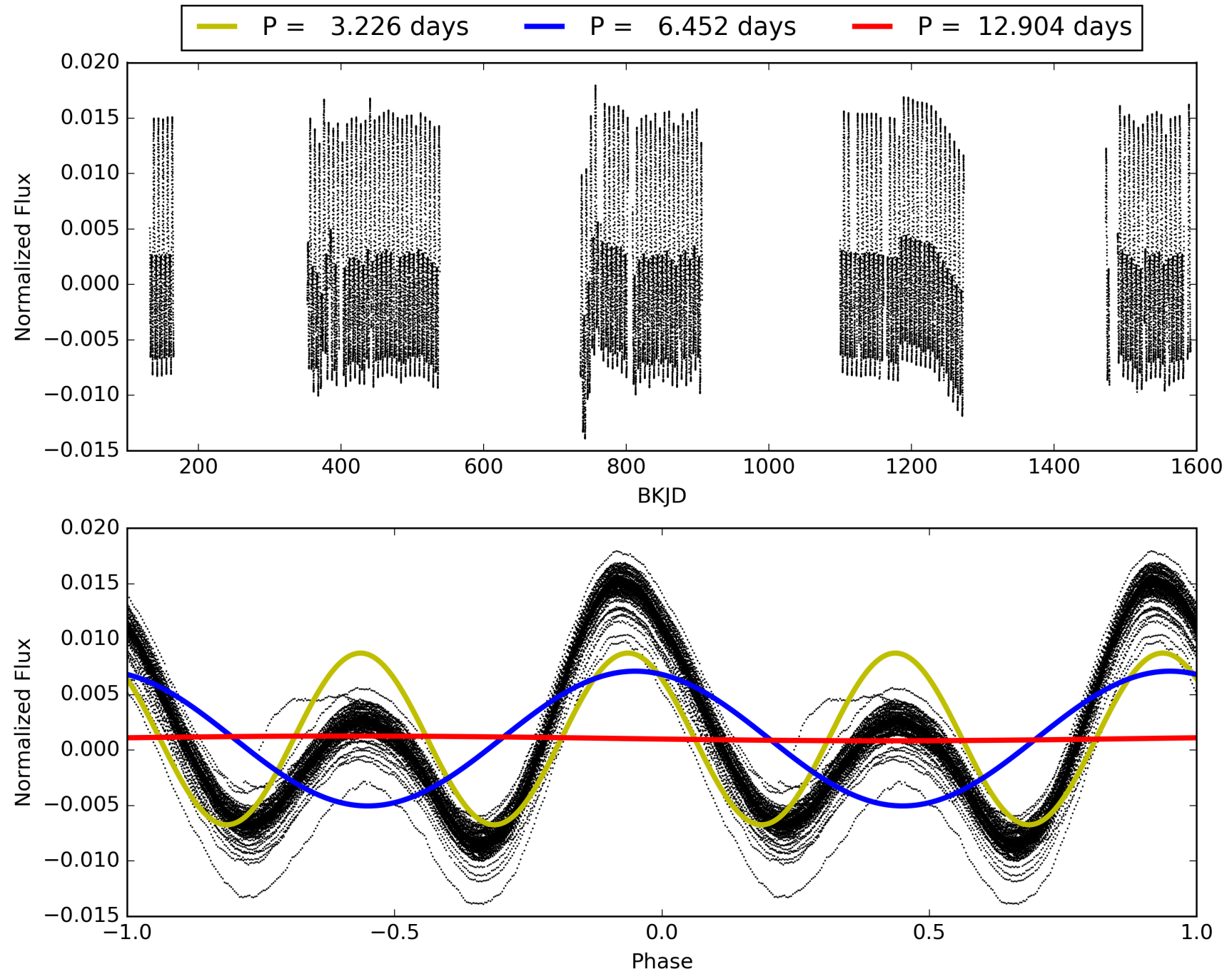
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:33:35 Z

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

TCE 010925227-01, PDC Light Curves

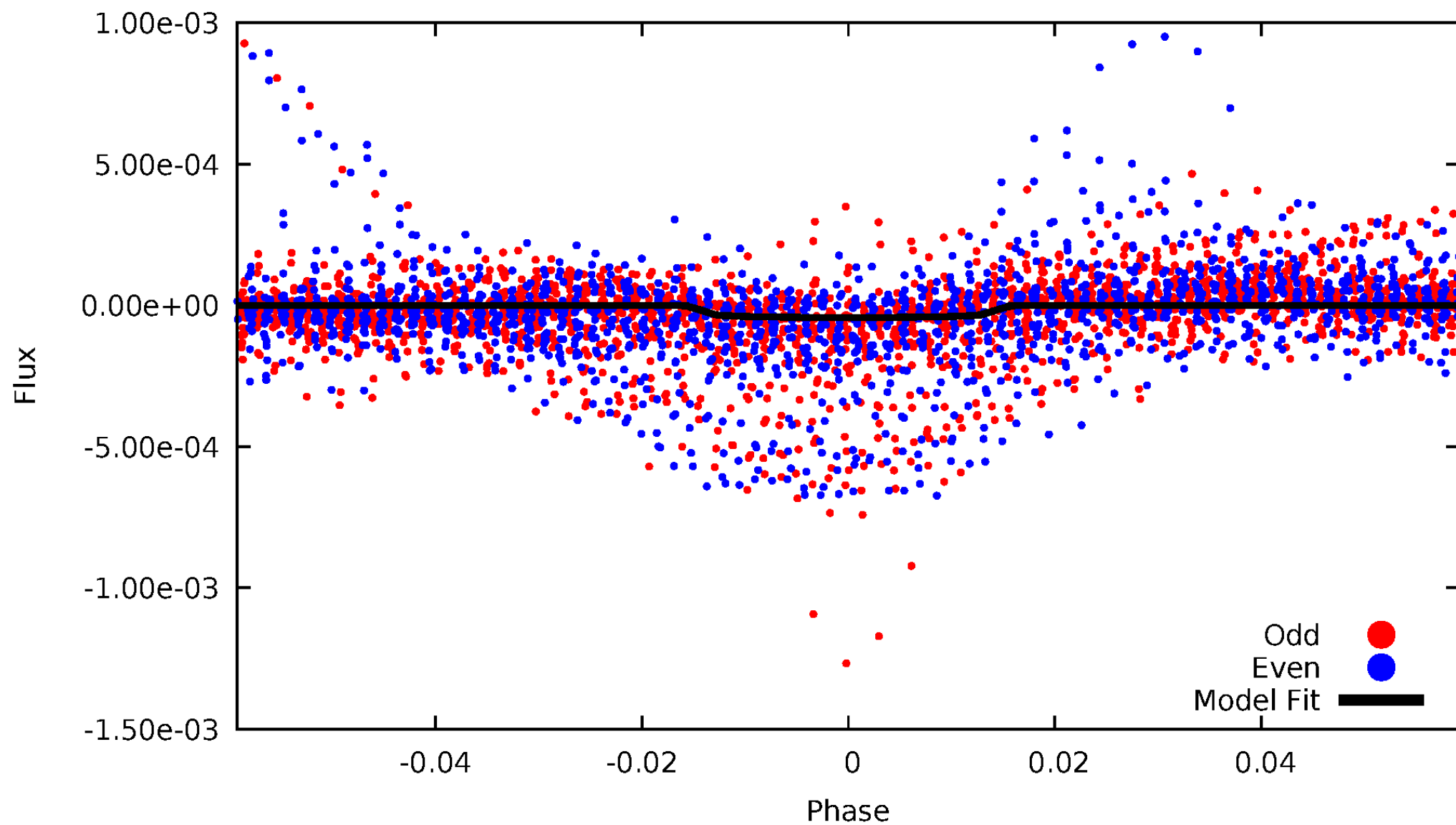


TCE 010925227-01



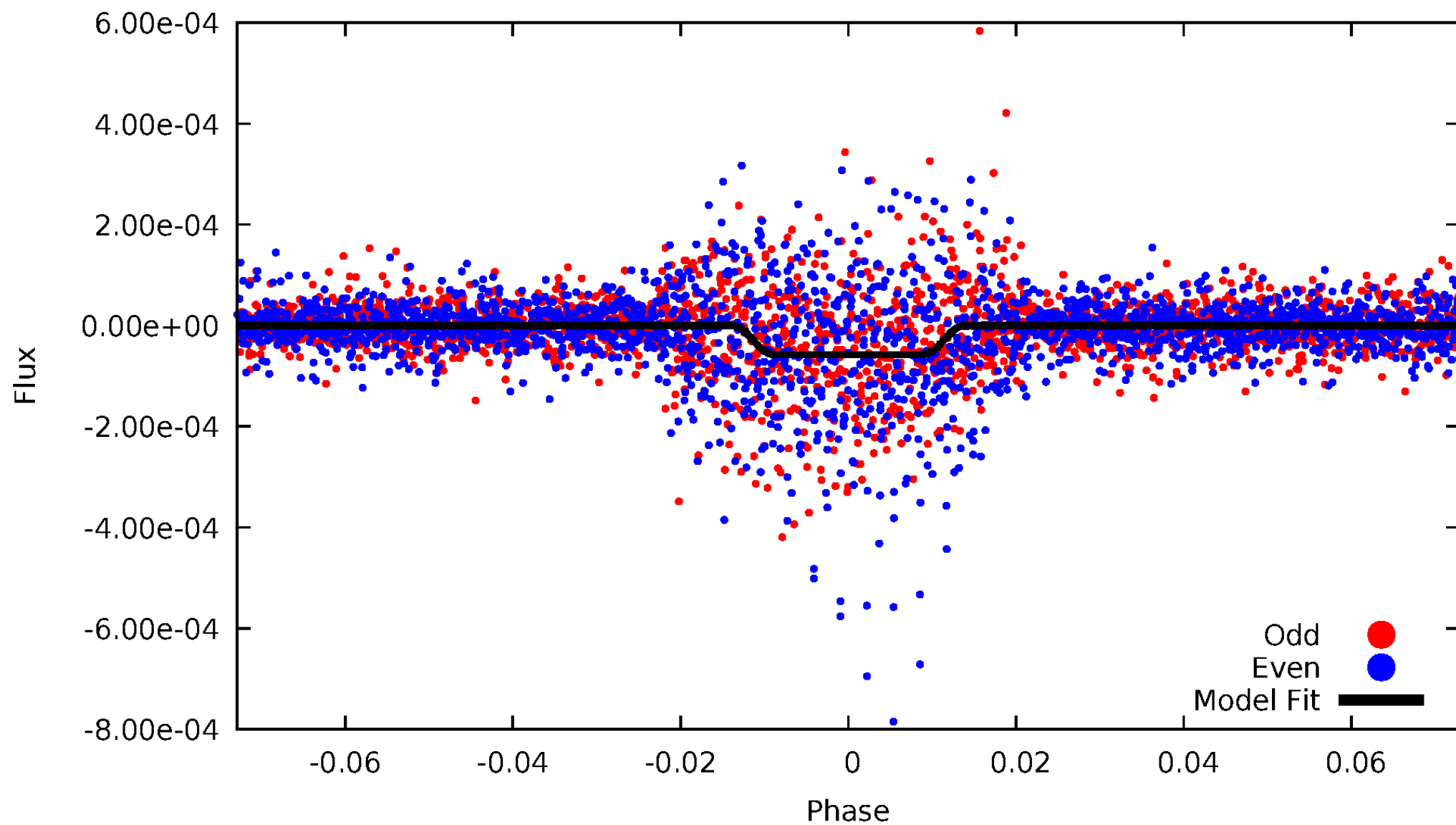
DV Odd/Even

TCE 010925227-01



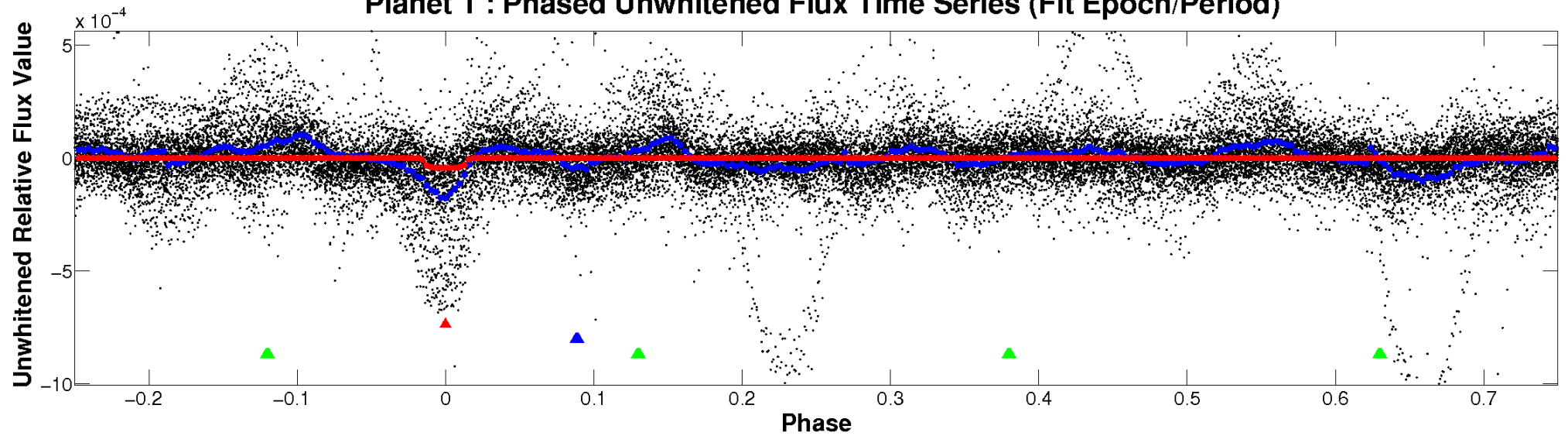
ALT Odd/Even

TCE 010925227-01

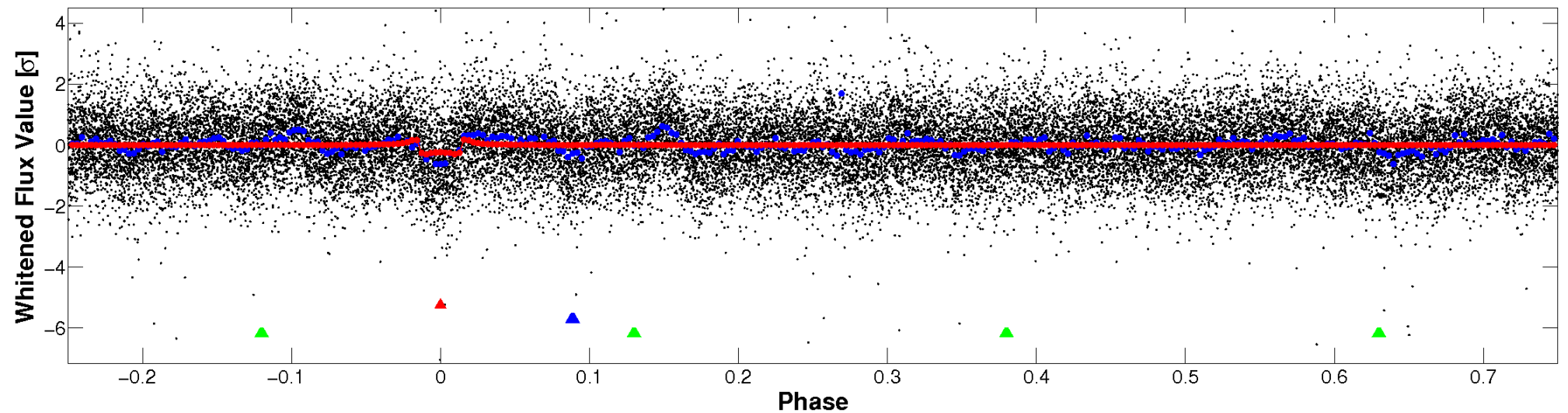


Non-Whitened Vs. Whitened Light Curve

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

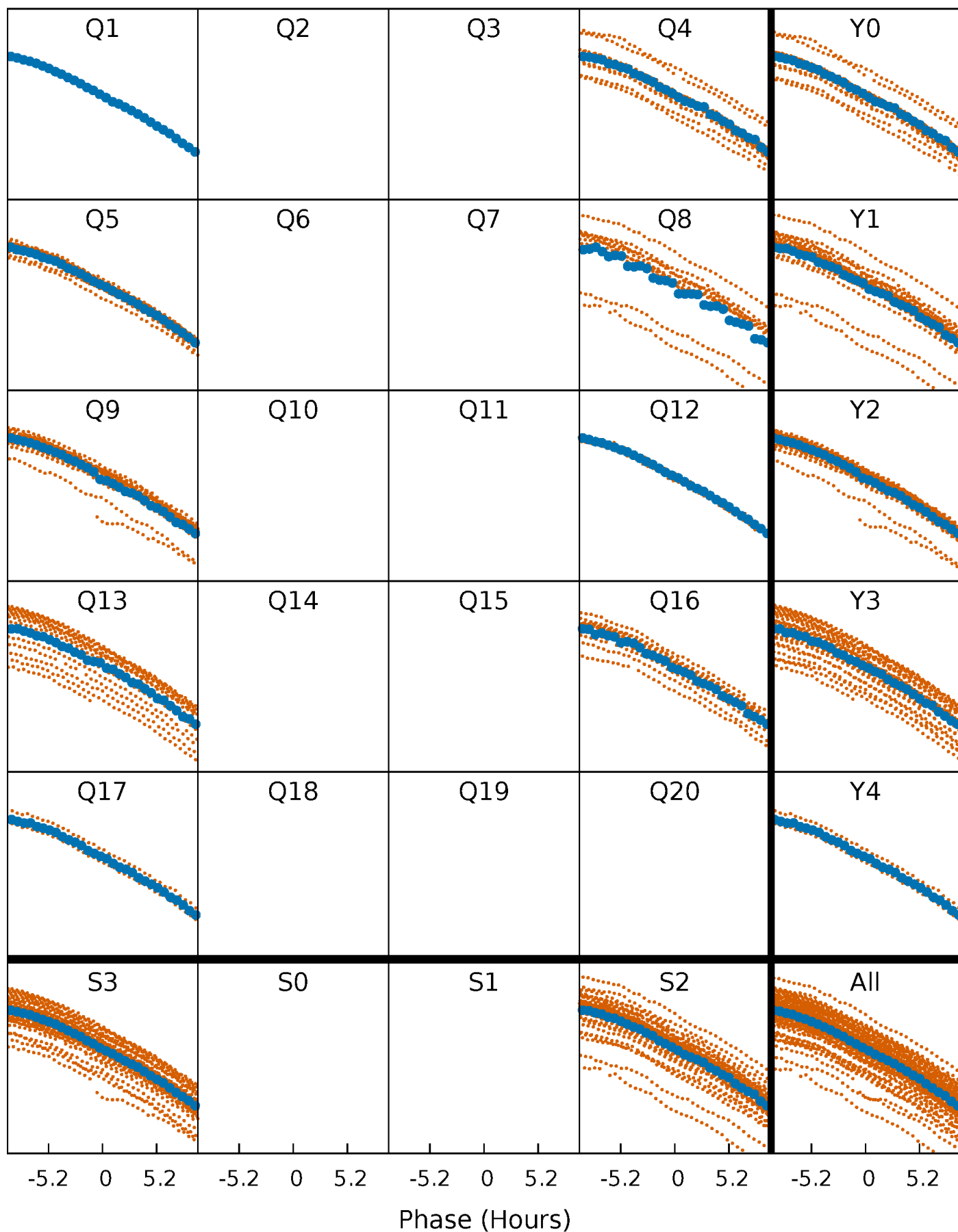


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



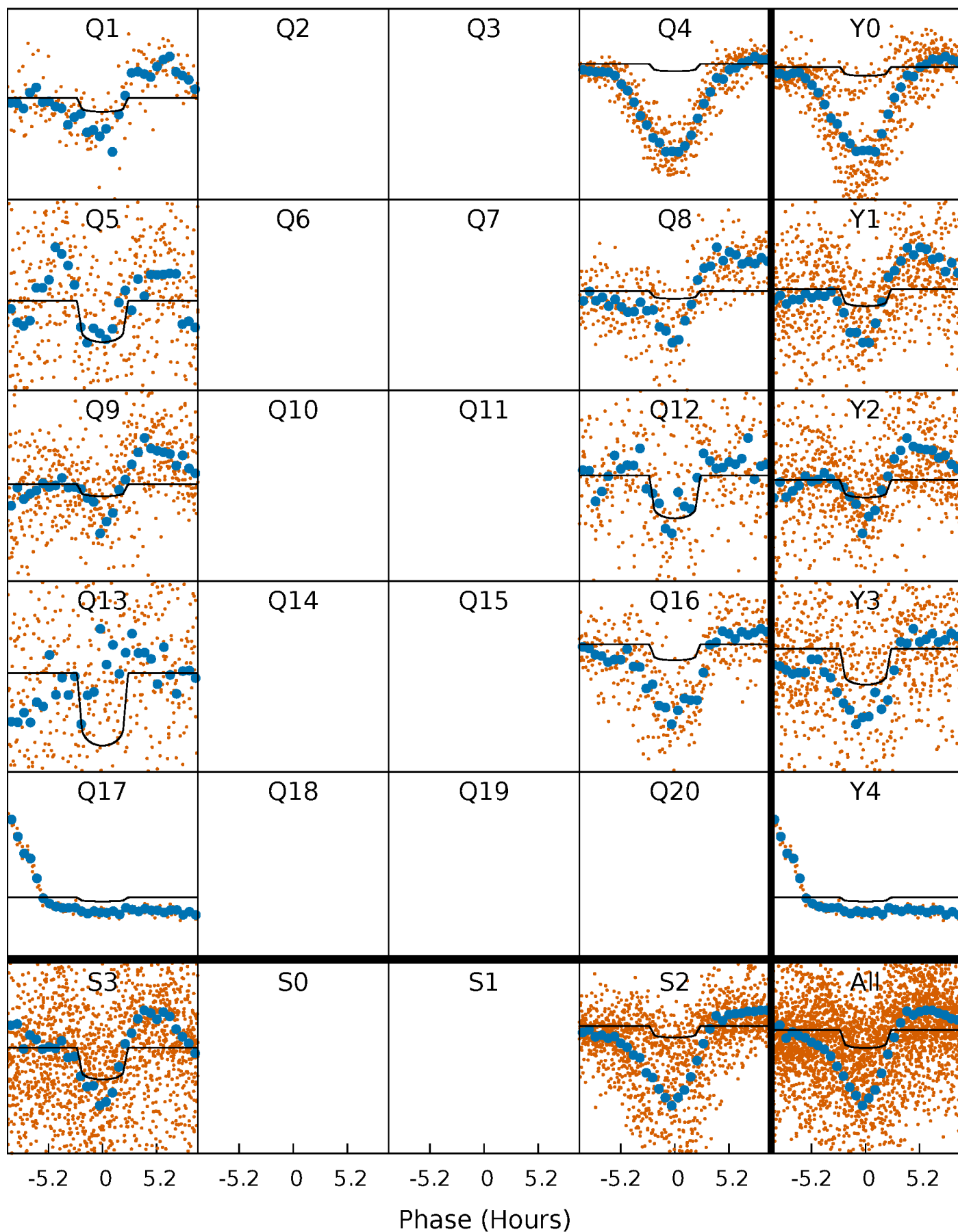
PDC Quarter-Phased Transit Curves

TCE 010925227-01 P= 6.452070 Days $T_0=137.542779$ (BKJD)



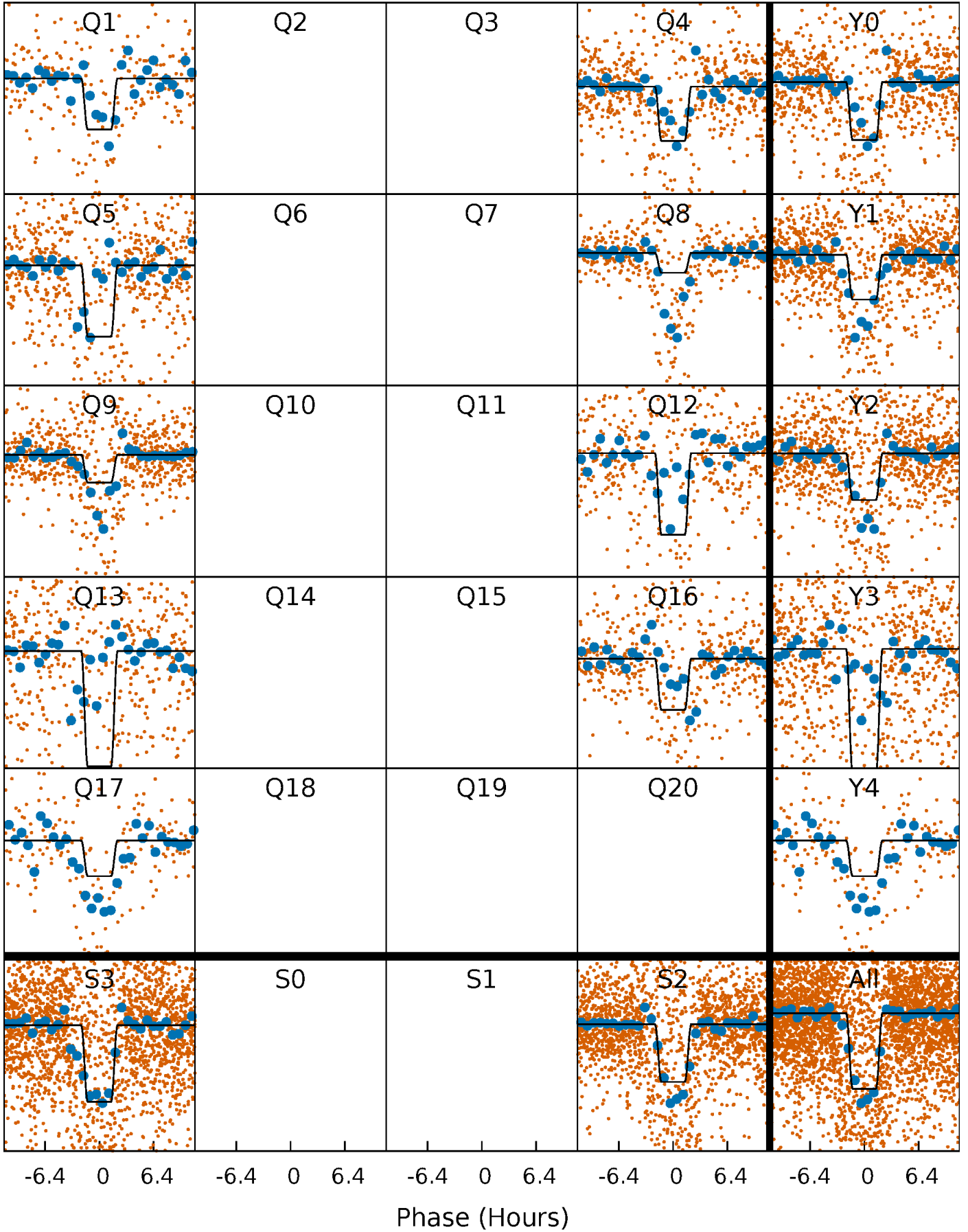
DV Quarter-Phased Transit Curves

TCE 010925227-01 P= 6.452070 Days $T_0=137.542779$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

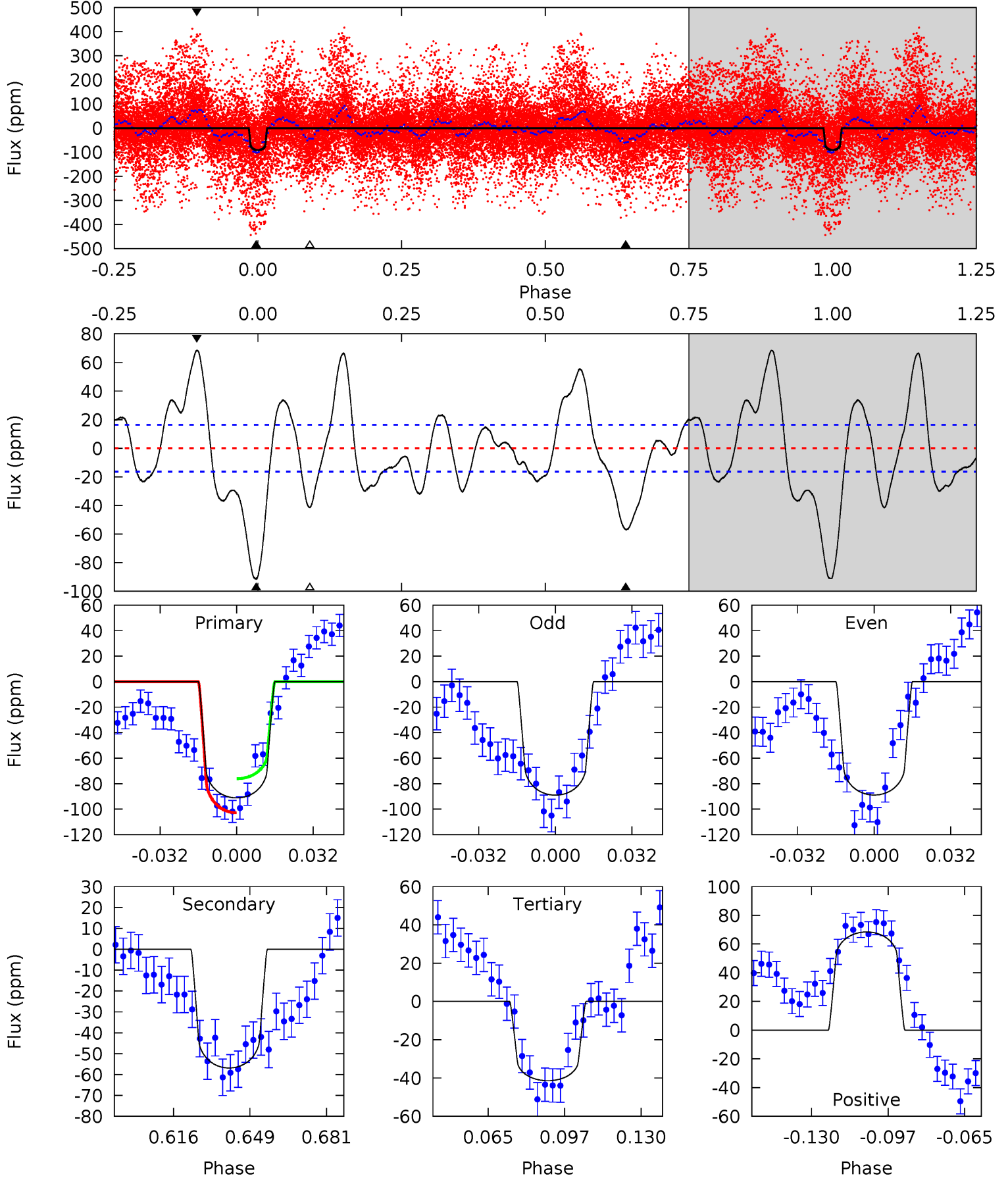
TCE 010925227-01 P= 6.452043 Days $T_0=137.545343$ (BKJD)



DV Model-Shift Uniqueness Test

010925227-01, P = 6.452070 Days, E = 131.090709 Days

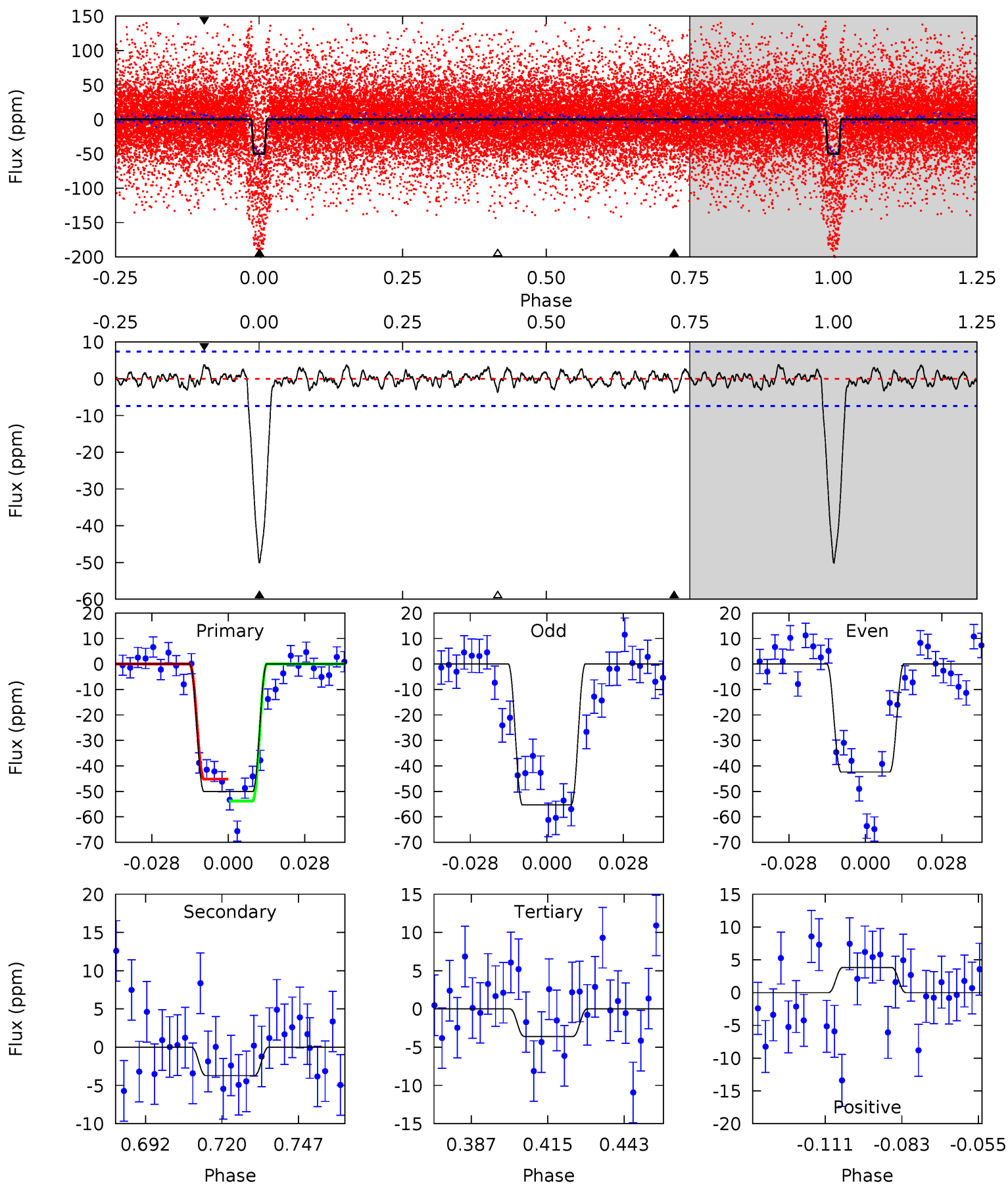
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.6	16.6	12.1	20.0	4.80	2.14	7.51	14.5	6.65	4.51	-3.38	0.01	2.28	0.43	3.93



Alt Model-Shift Uniqueness Test

010925227-01, P = 6.452043 Days, E = 131.093300 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
32.6	2.42	2.34	2.50	4.83	2.20	0.89	30.2	30.1	0.08	-0.08	4.14	1.01	0.07	2.76



Stellar Parameters For KIC 010925227

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8633^{+383}_{-623}	$4.117^{+0.033}_{-0.297}$	$0.560^{+0.050}_{-0.200}$	$2.163^{+1.156}_{-0.136}$	$2.235^{+0.432}_{-0.216}$	$0.311^{+0.042}_{-0.213}$
	+4%/-7%	+1%/-7%	+9%/-36%	+53%/-6%	+19%/-10%	+14%/-69%
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 010925227-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-57 ± 3	$1.74^{+0.47}_{-0.34}$	2703^{+292}_{-212}	9129^{+1275}_{-1130}	80^{+41}_{-30}
Alt.	-4 ± 2	$1.95^{+0.45}_{-0.34}$	2715^{+287}_{-227}	4253^{+463}_{-502}	$3.986^{+2.757}_{-2.032}$

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 $A_{obs} \gg 1.0$

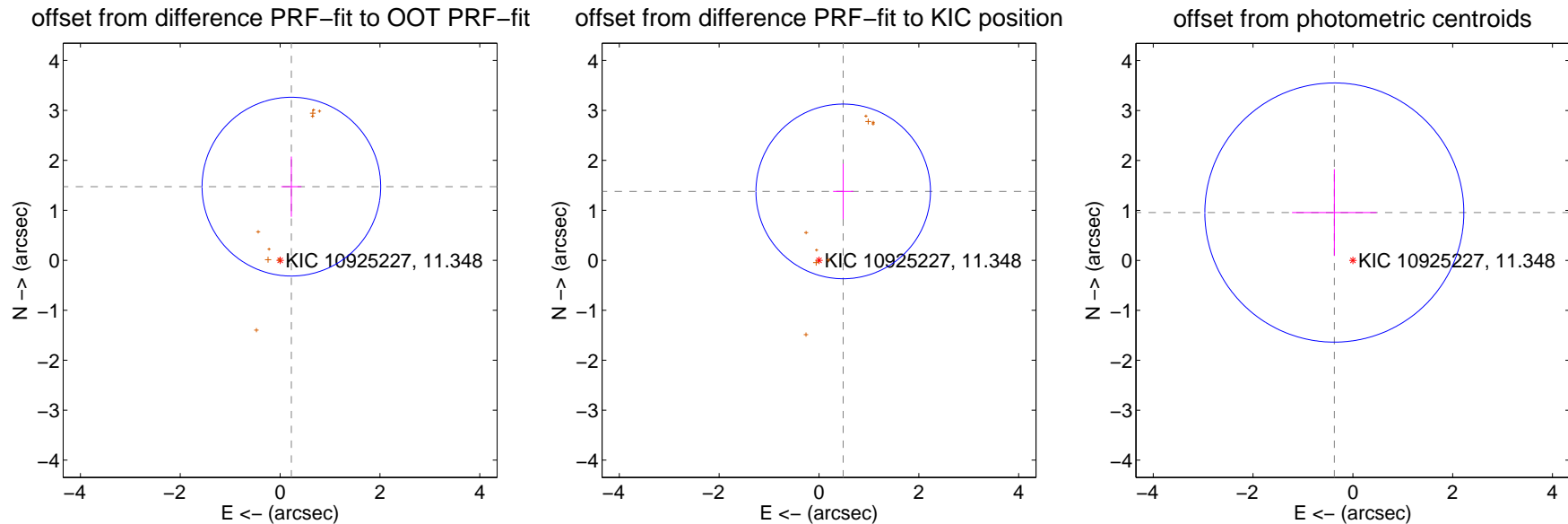
DV Centroid Data

Supplemental centroid analysis for 010925227-01. **Kepler magnitude: 11.35.** Transit SNR 9.48

There are 0 quarters with good PRF difference image offsets

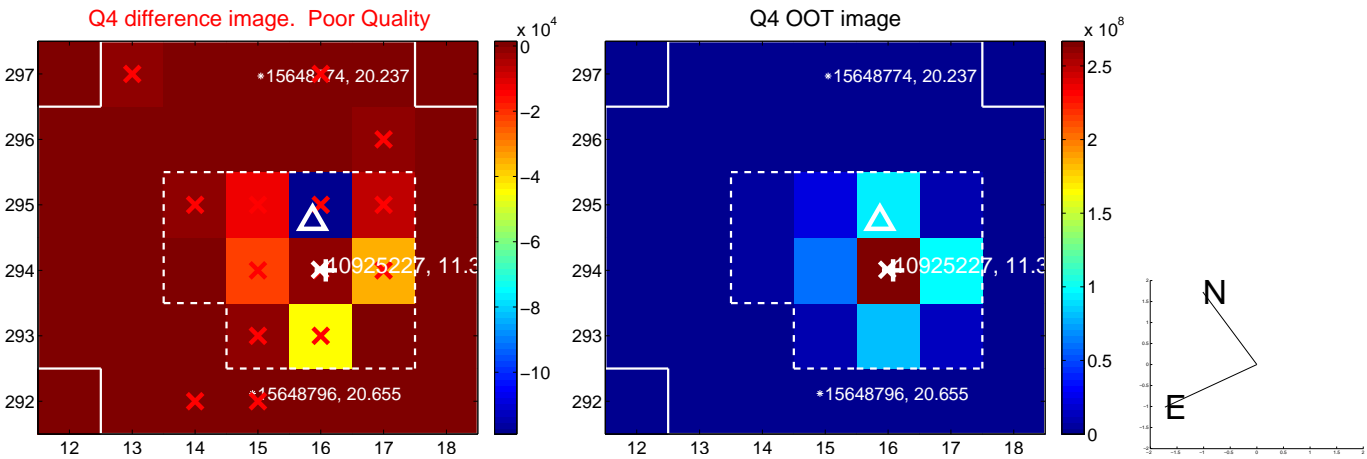
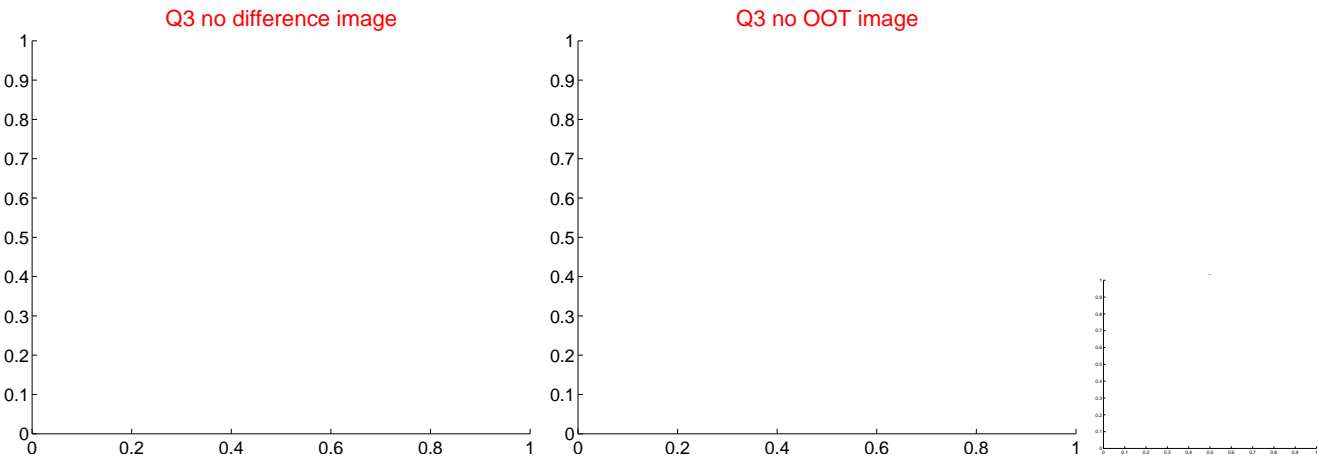
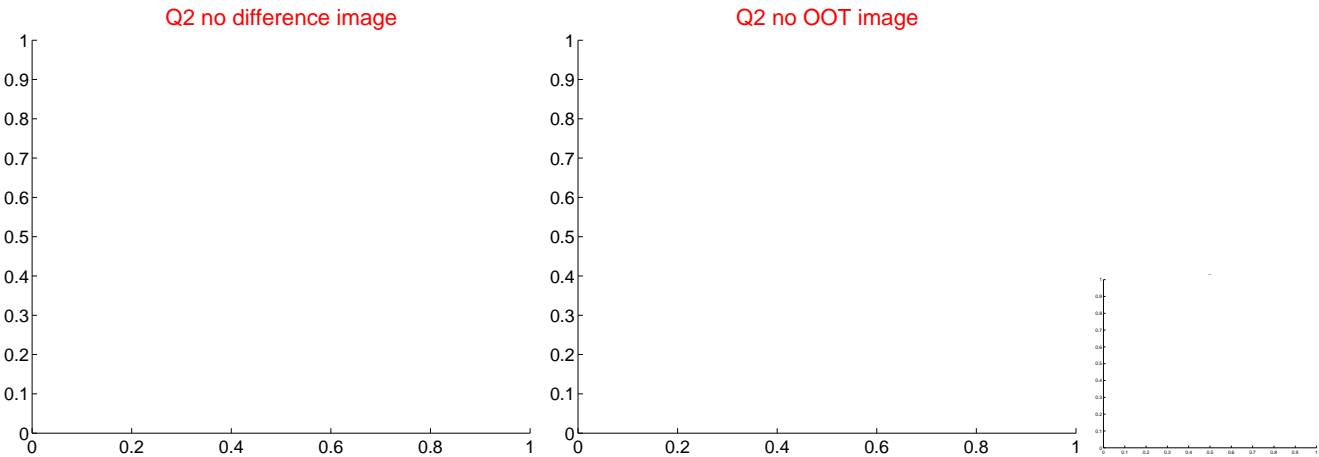
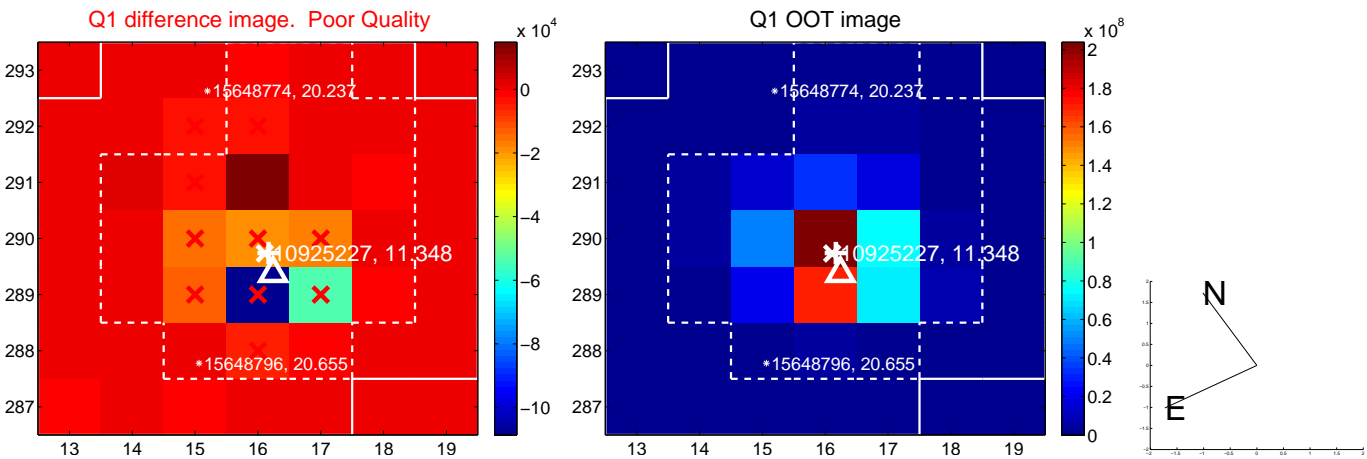
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.492 ± 0.596	2.50	-0.226 ± 0.201	1.474 ± 0.603
PRF-fit source offset from KIC position	1.462 ± 0.583	2.51	-0.485 ± 0.203	1.379 ± 0.554
photometric centroid source offset	1.03 ± 0.87	1.19	0.37 ± 0.85	0.96 ± 0.87

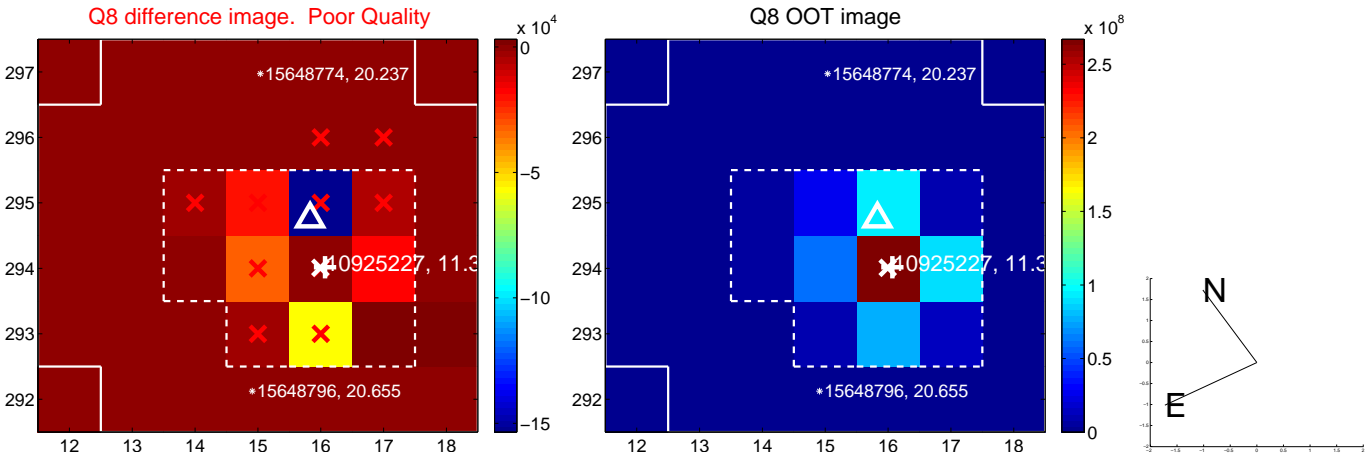
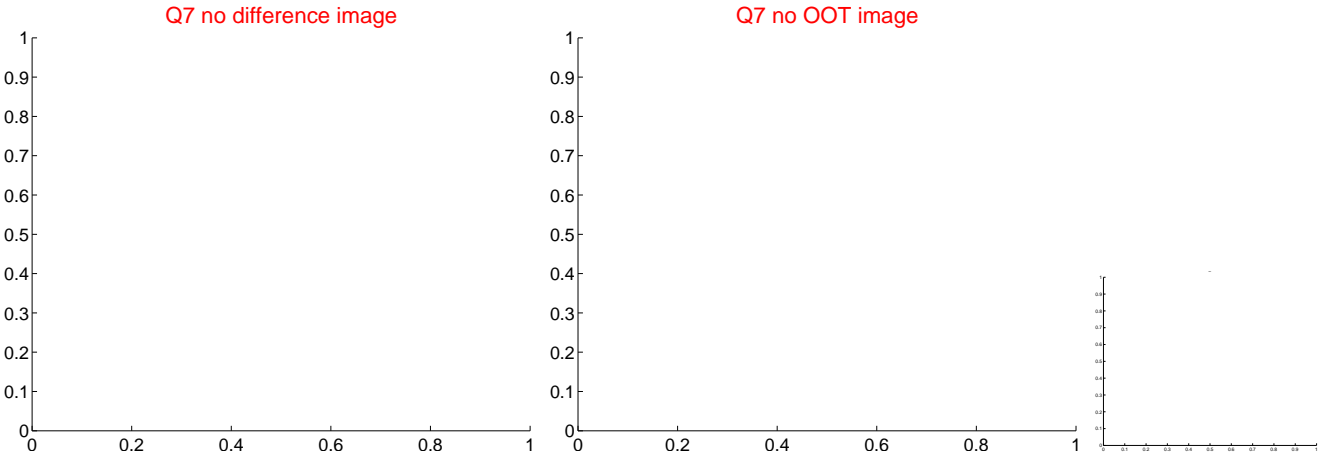
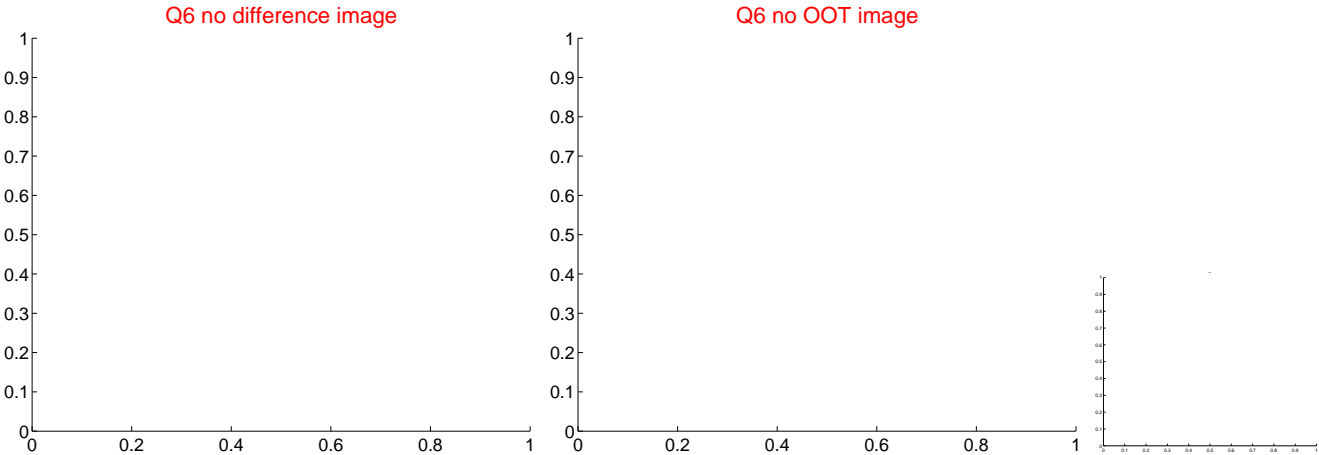
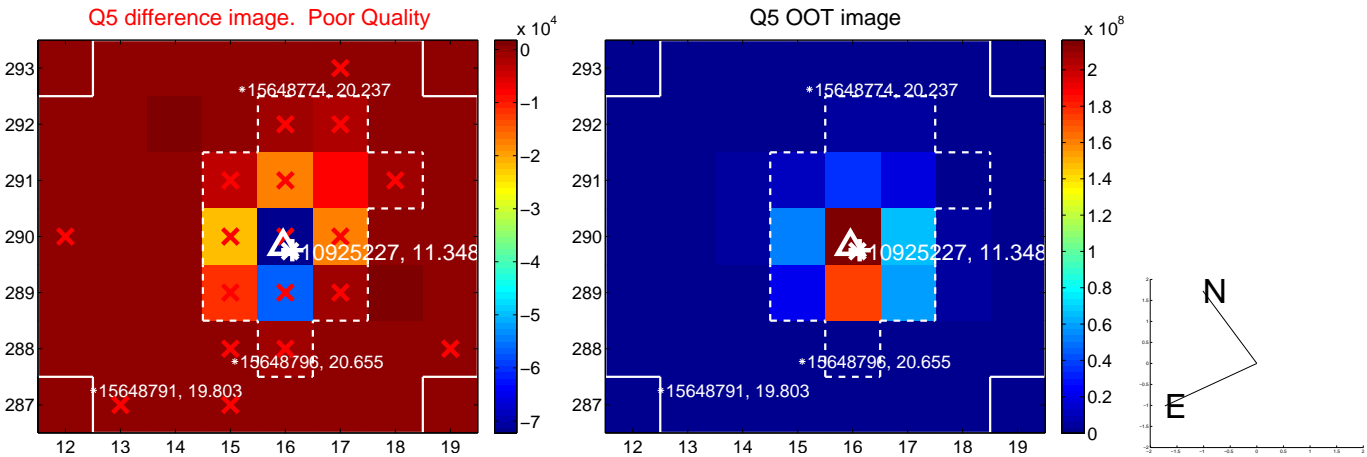


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

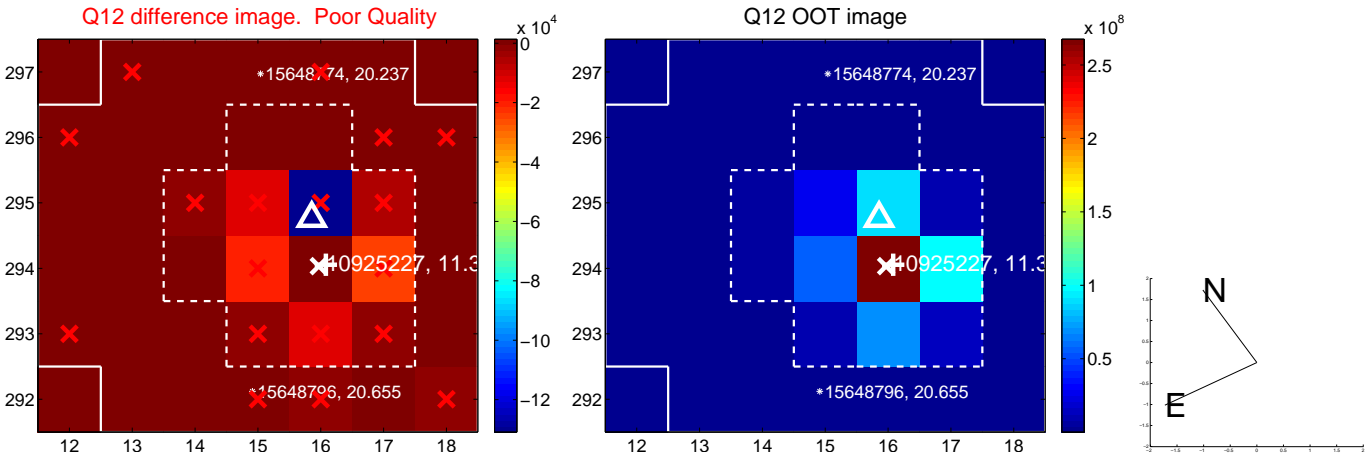
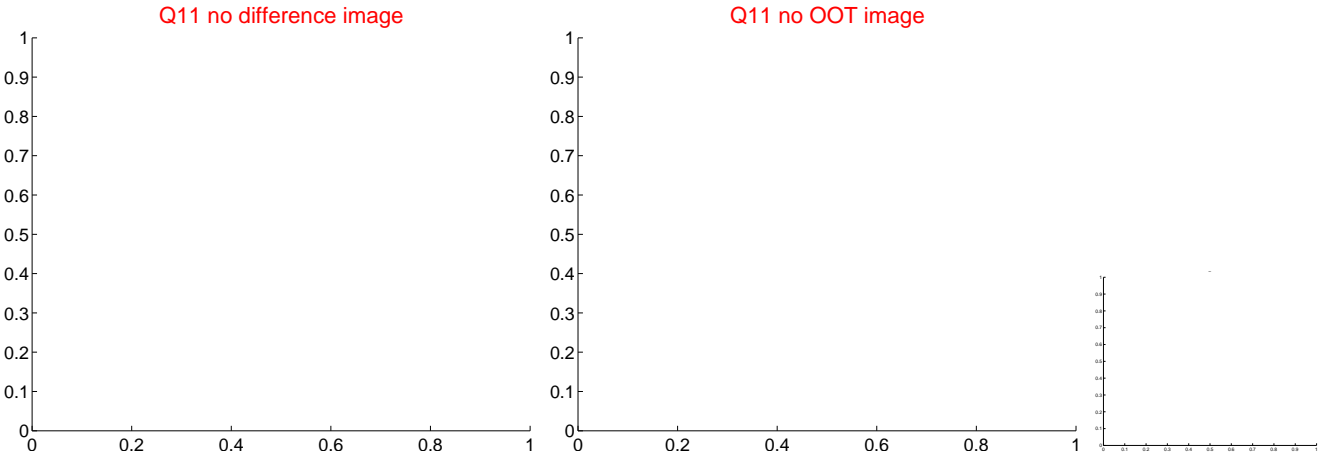
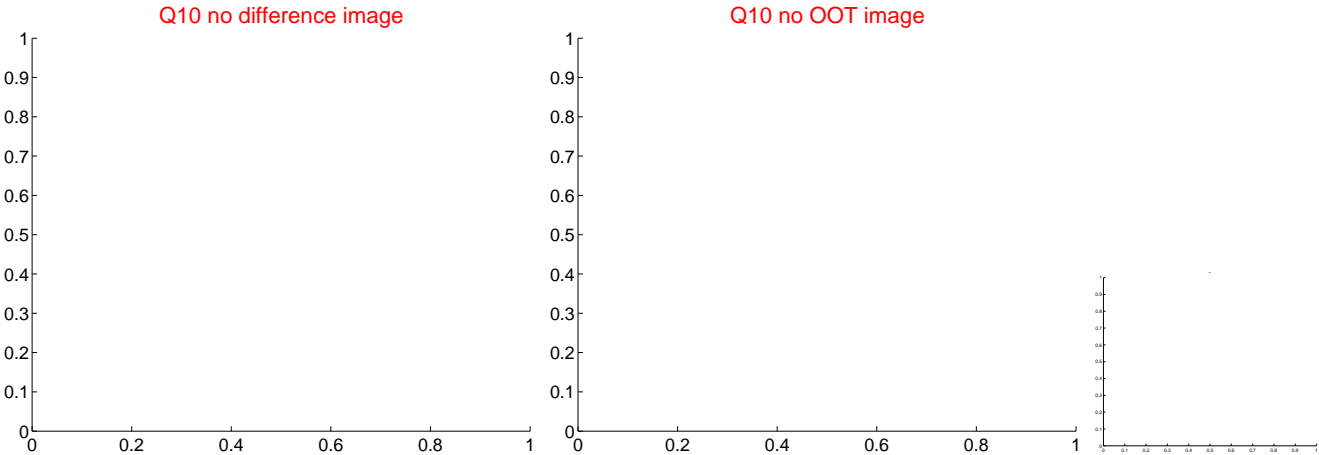
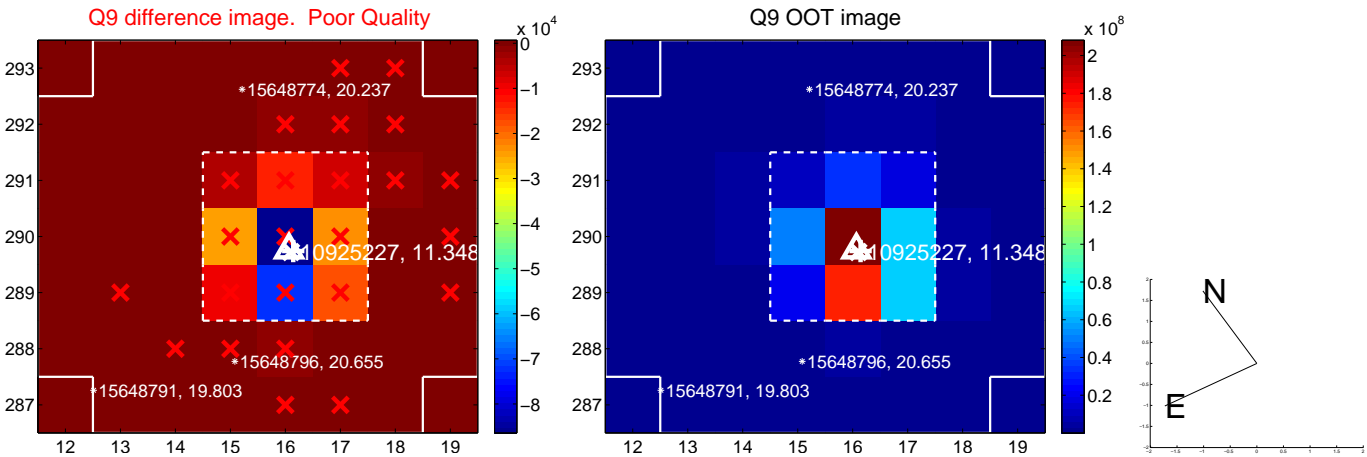
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



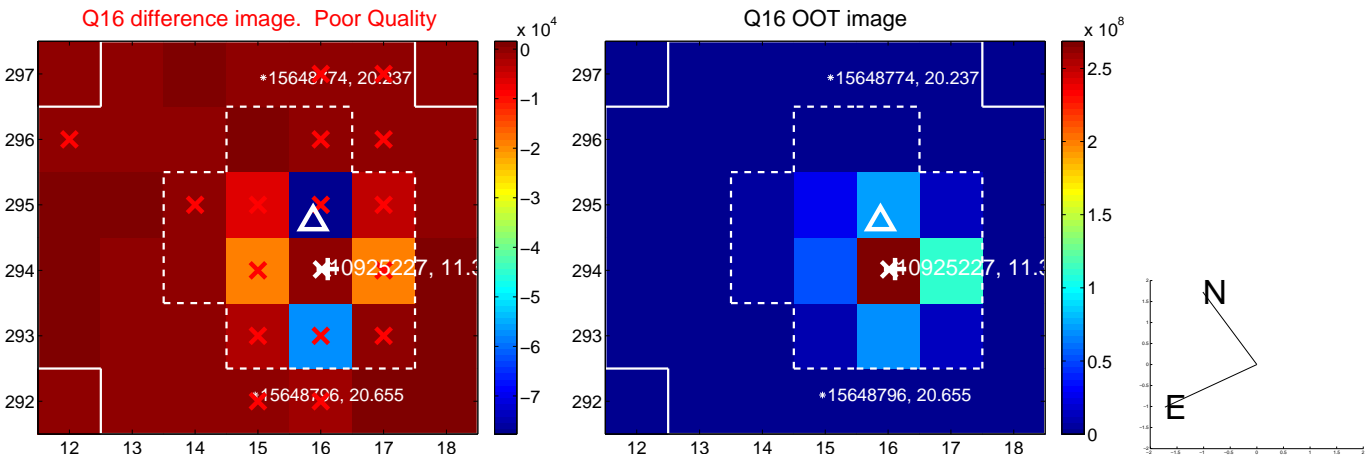
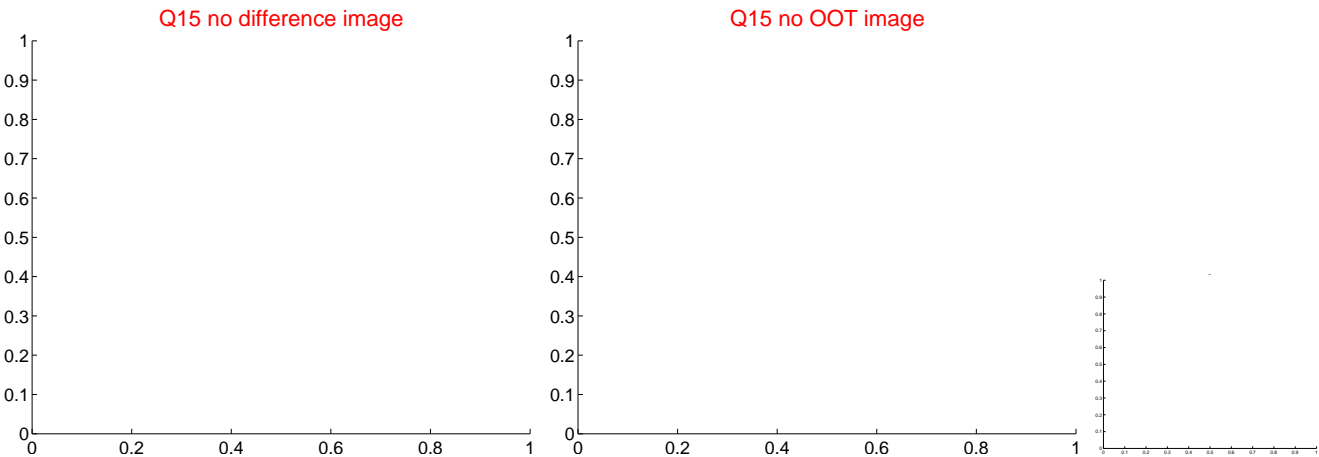
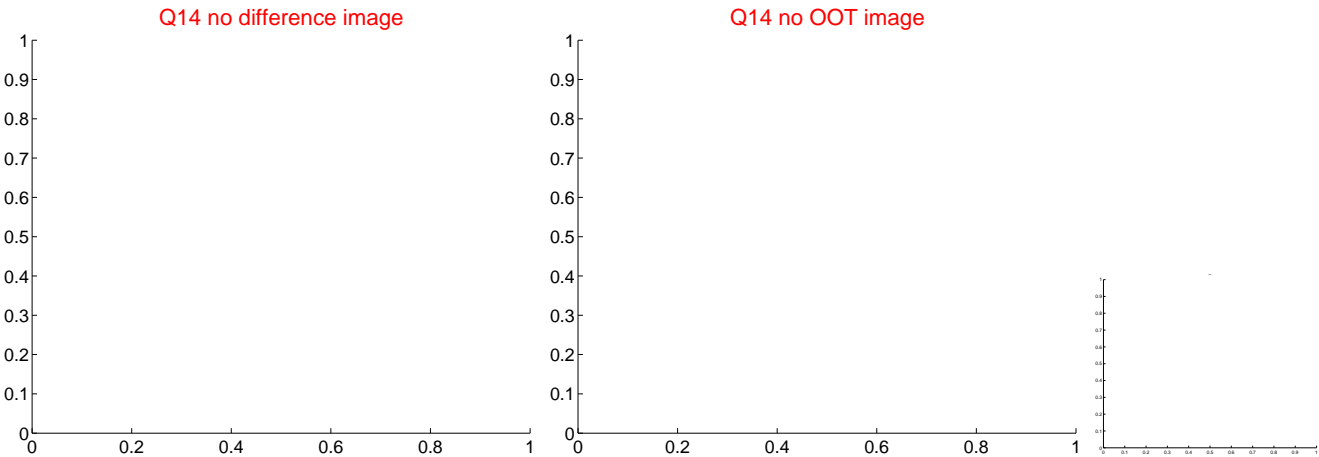
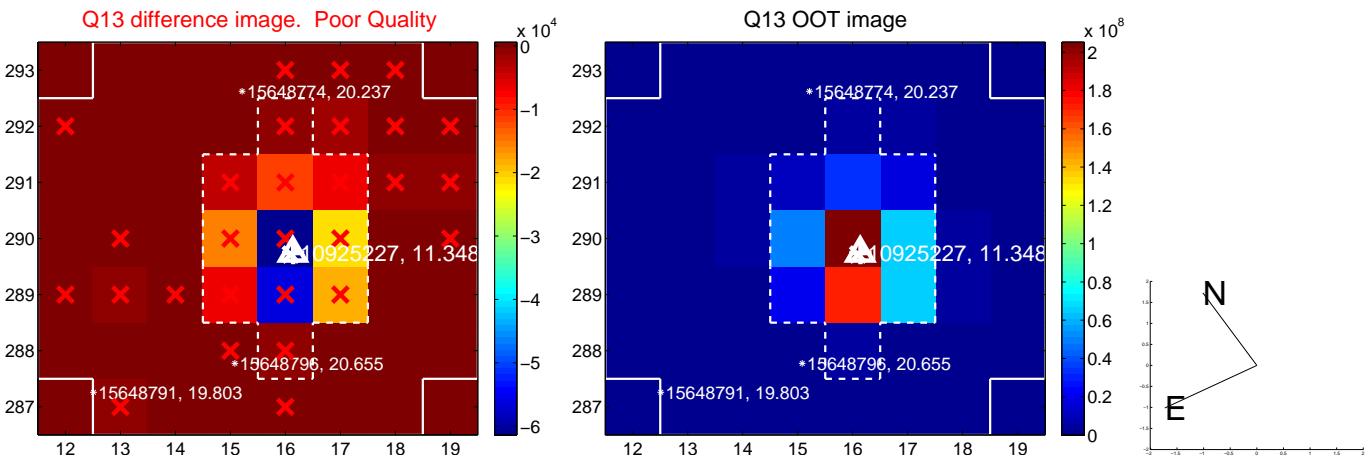
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



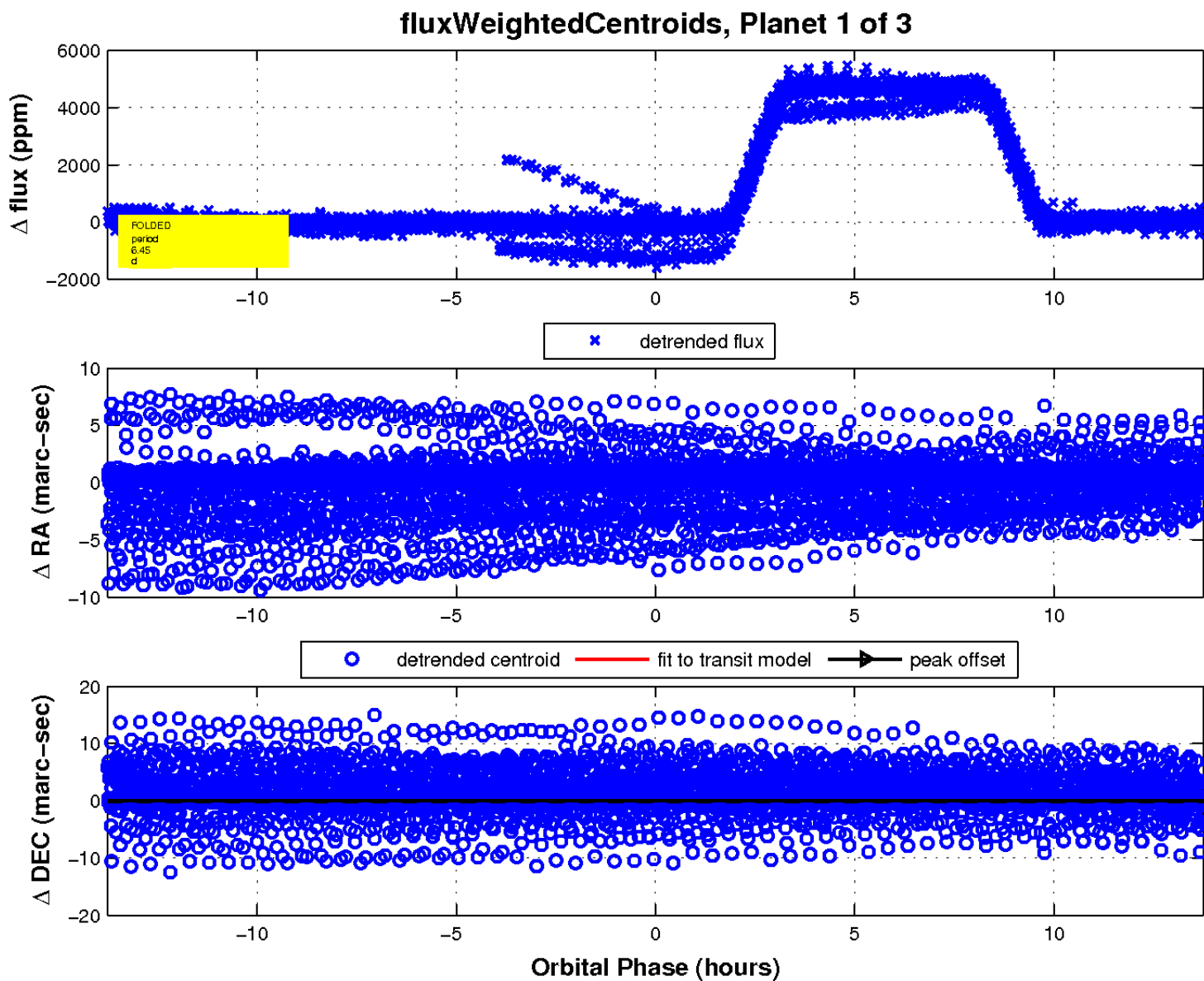
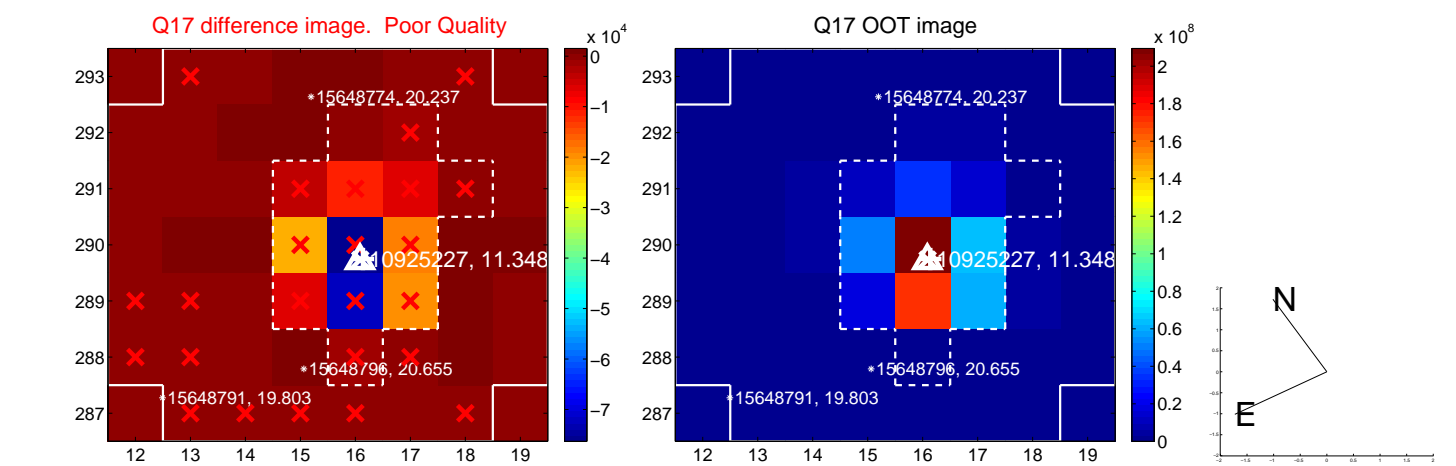
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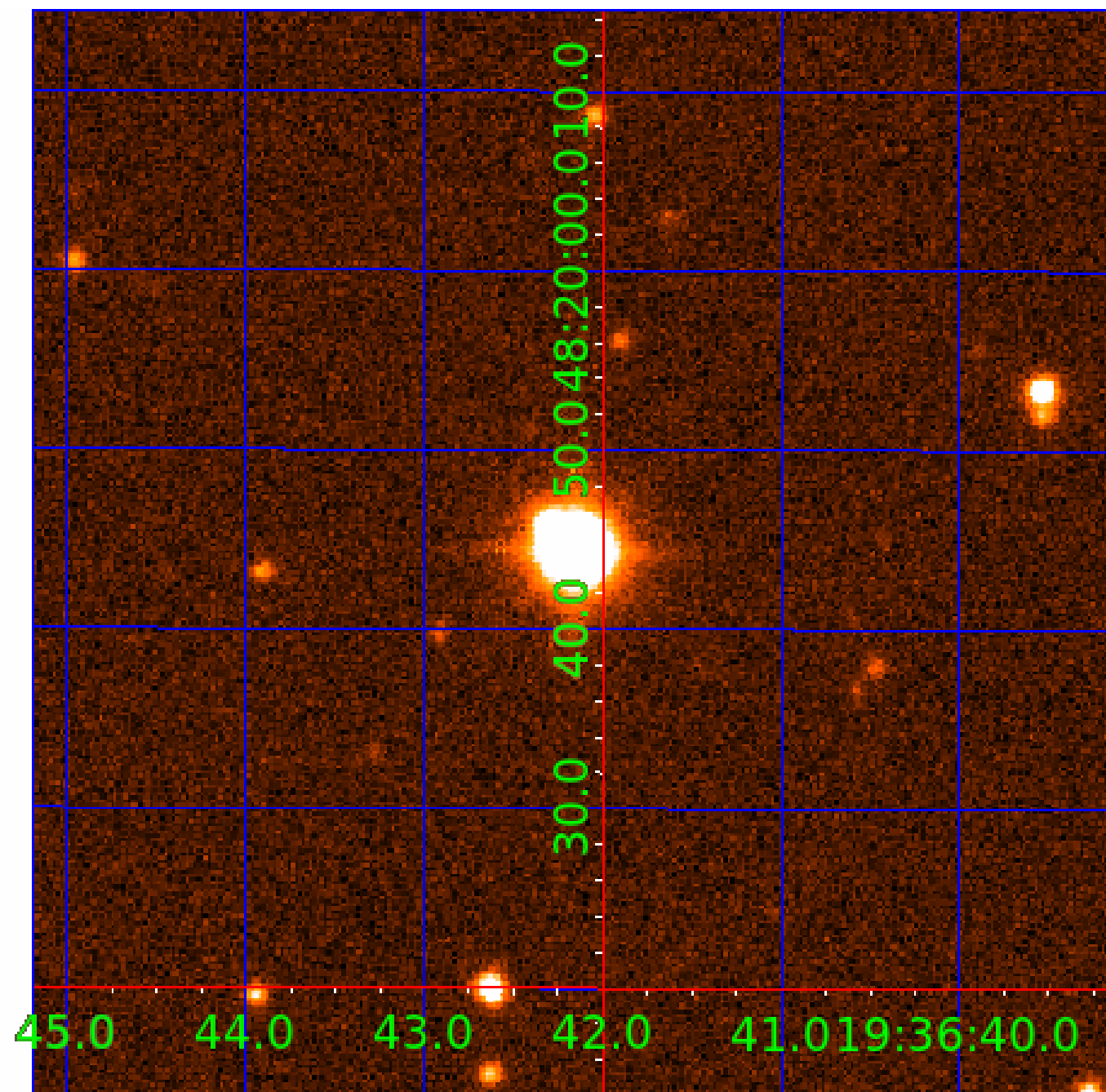


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010925227

Q1-17 DR25 TCE Parameters

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

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010925227-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
010925227-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED
010925227-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

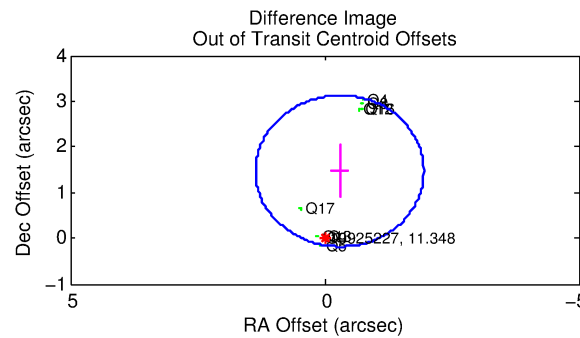
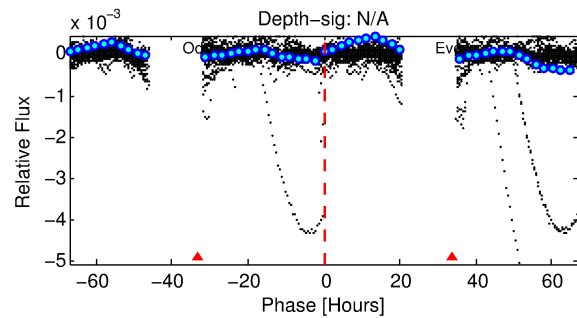
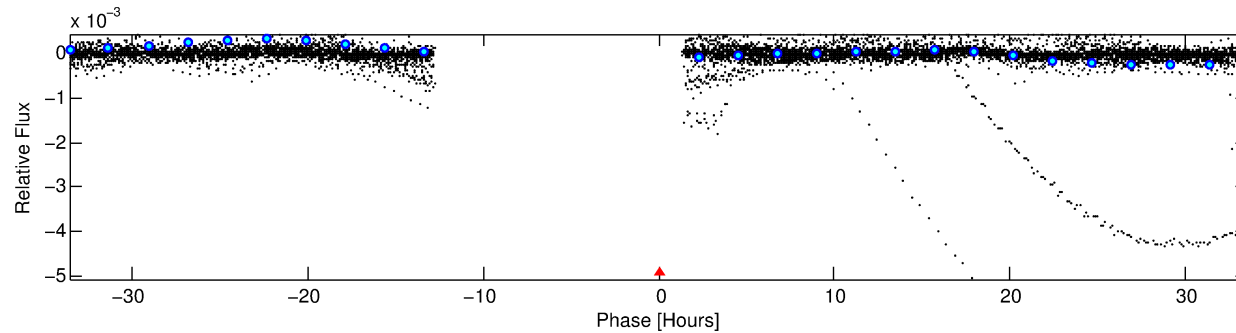
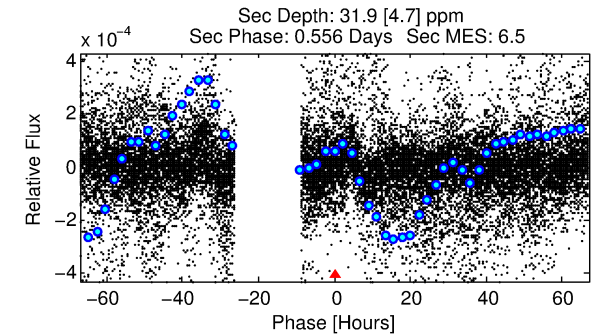
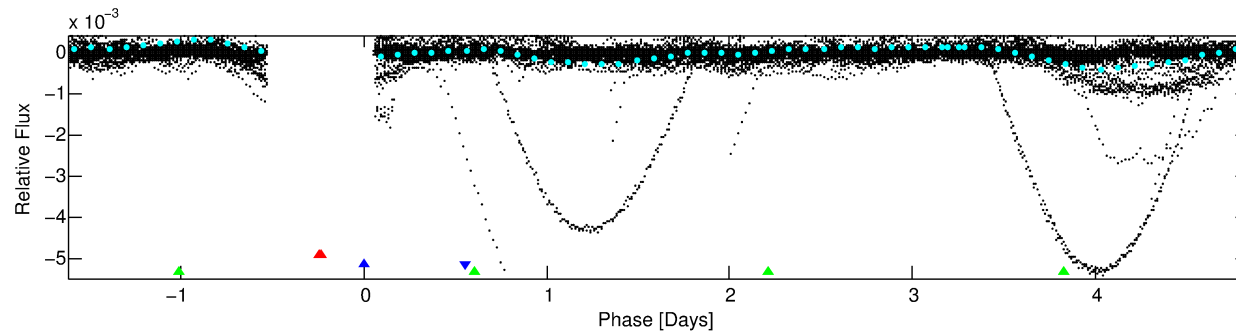
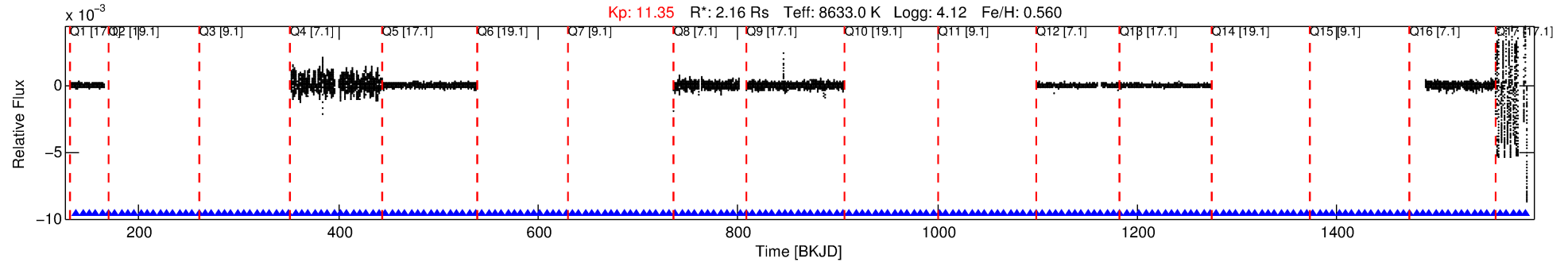
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010925227-02

No Significant Match Found

DV One-Page Summary

KIC: 10925227 Candidate: 2 of 3 Period: 6.452 d



TPS TCE Results:

Period = 6.45212 d
Epoch = 131.6570 BKJD

DV fit results are unavailable

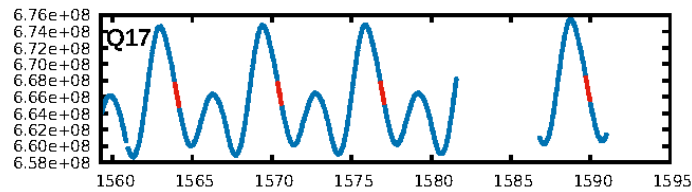
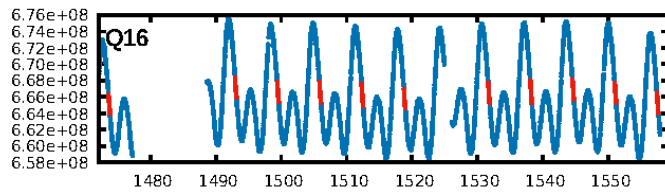
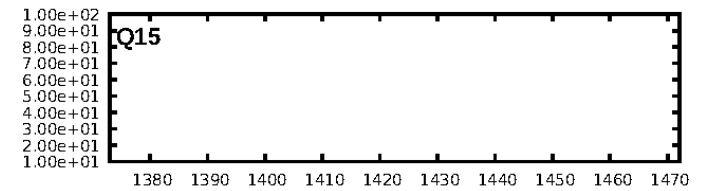
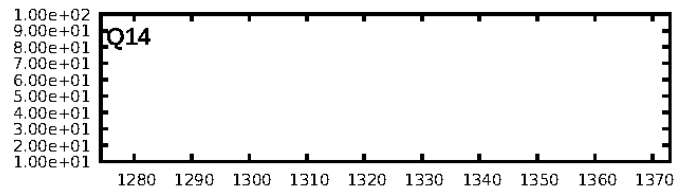
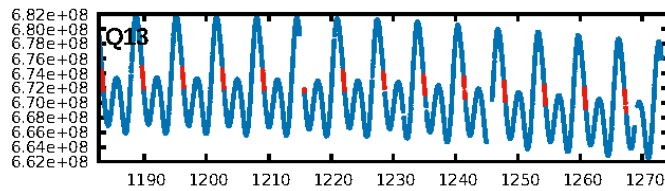
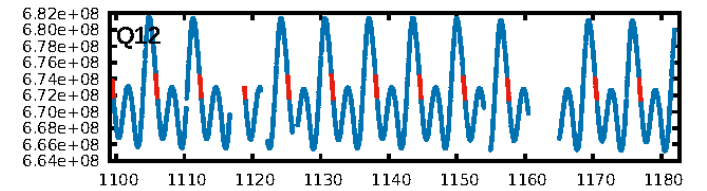
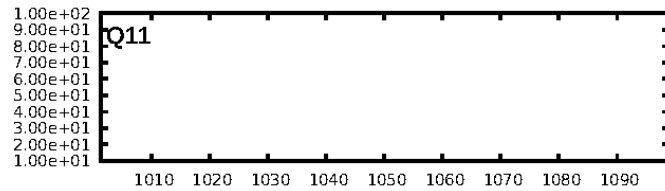
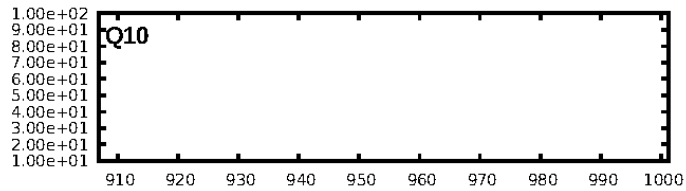
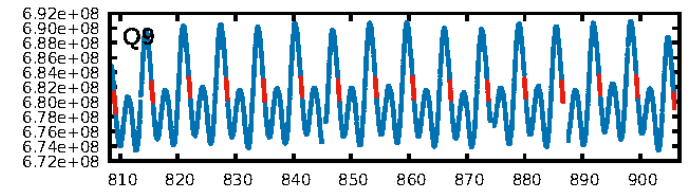
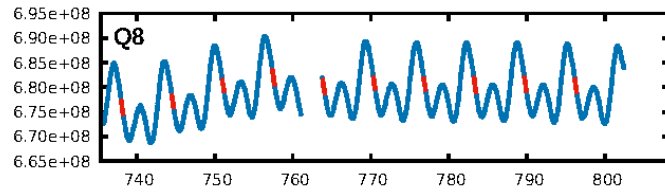
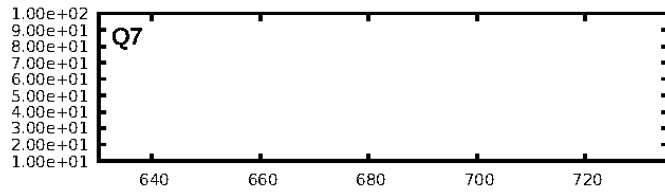
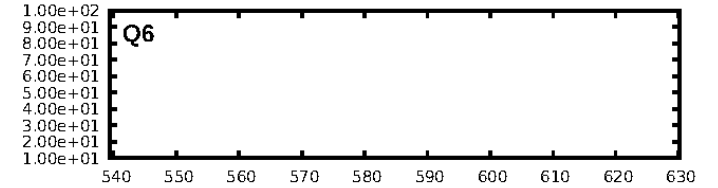
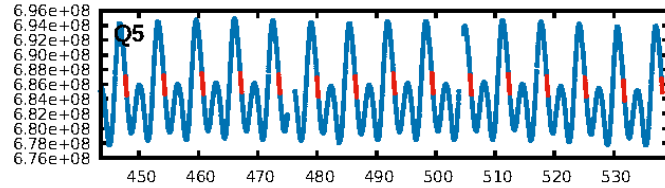
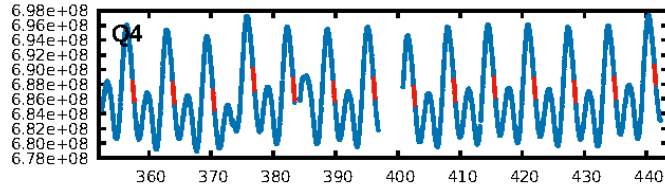
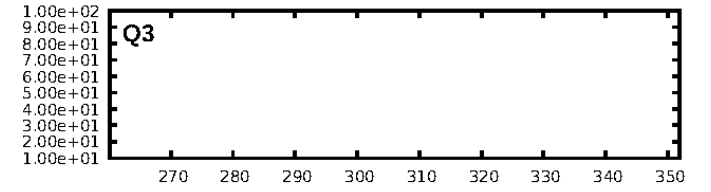
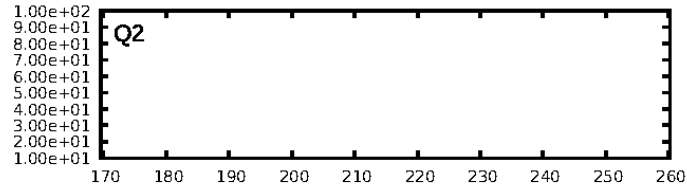
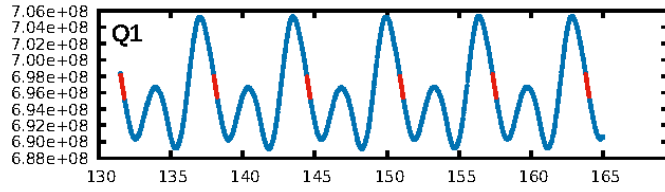
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 3.16e-13
RollingBand-fgt: 1.00 [88/88]
GhostDiagnostic-chr: 0.3034
Centroid-sig: N/A
Centroid-so: 0.116 arcsec [15.74 σ]
OotOffset-rm: 1.502 arcsec [2.72 σ]
KicOffset-rm: 1.484 arcsec [2.96 σ]
OotOffset-st: 0/0/4/5 [9]
KicOffset-st: 0/0/4/5 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 0.00 [0/9]

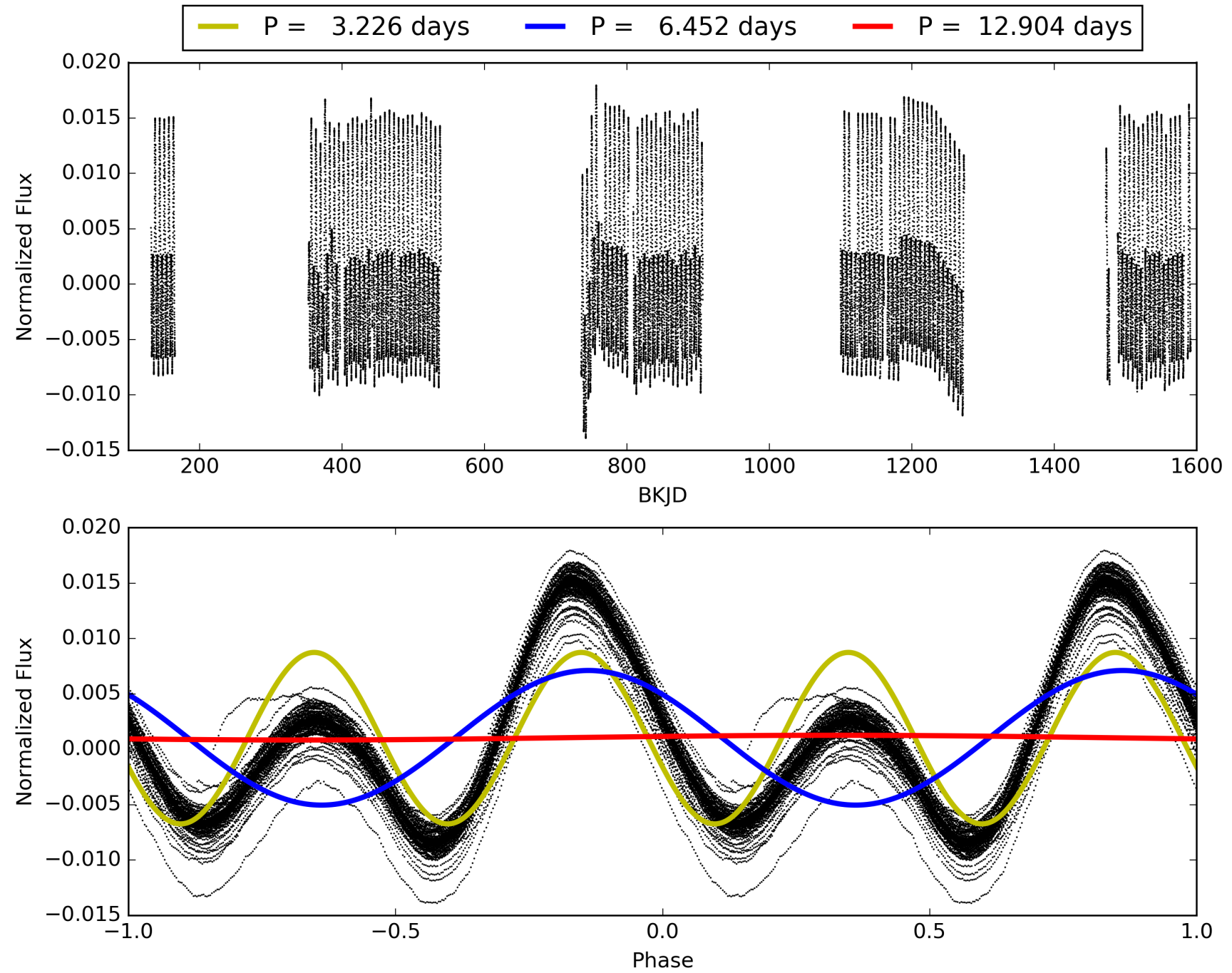
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:33:40 Z

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

TCE 010925227-02, PDC Light Curves

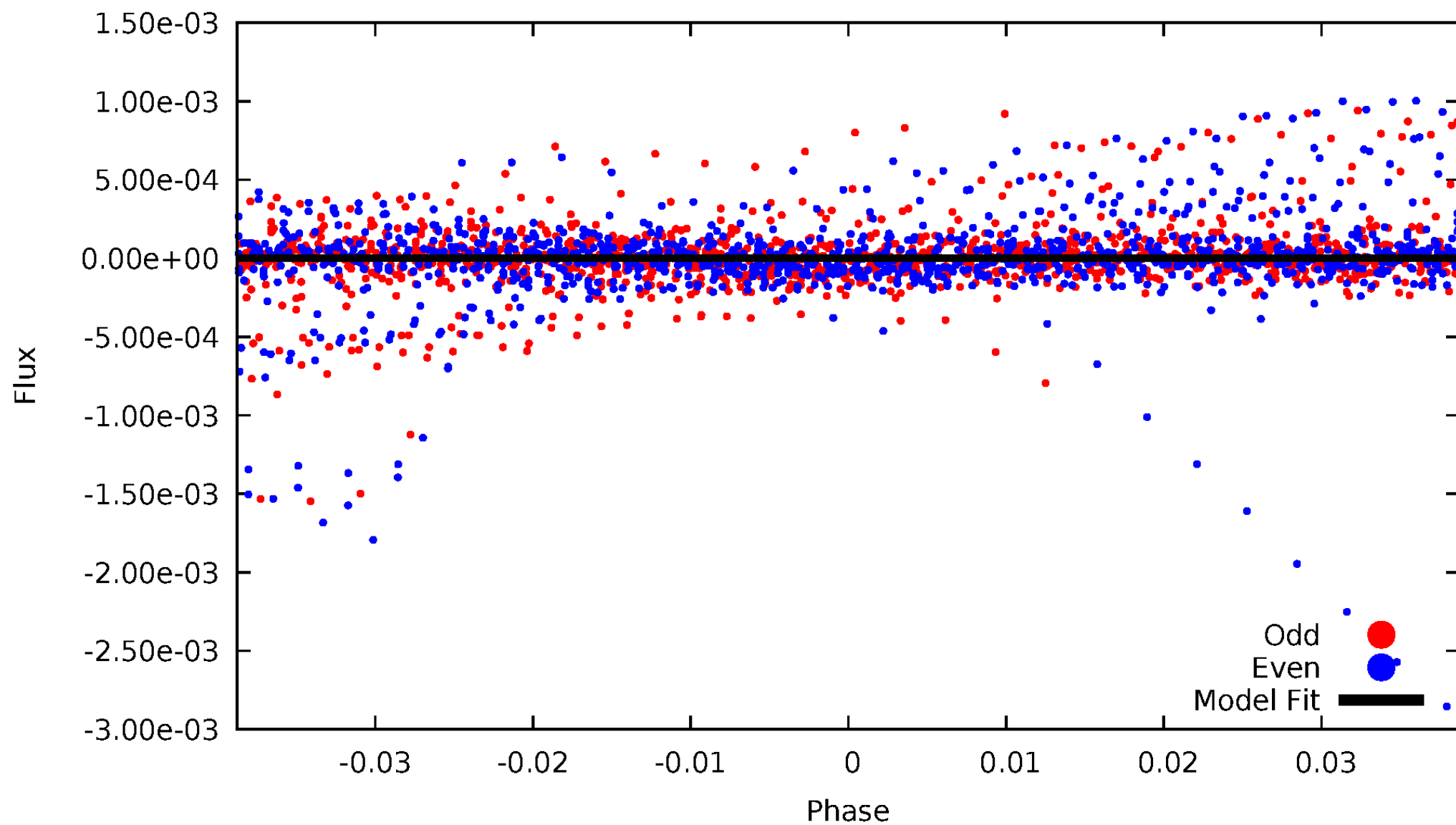


TCE 010925227-02



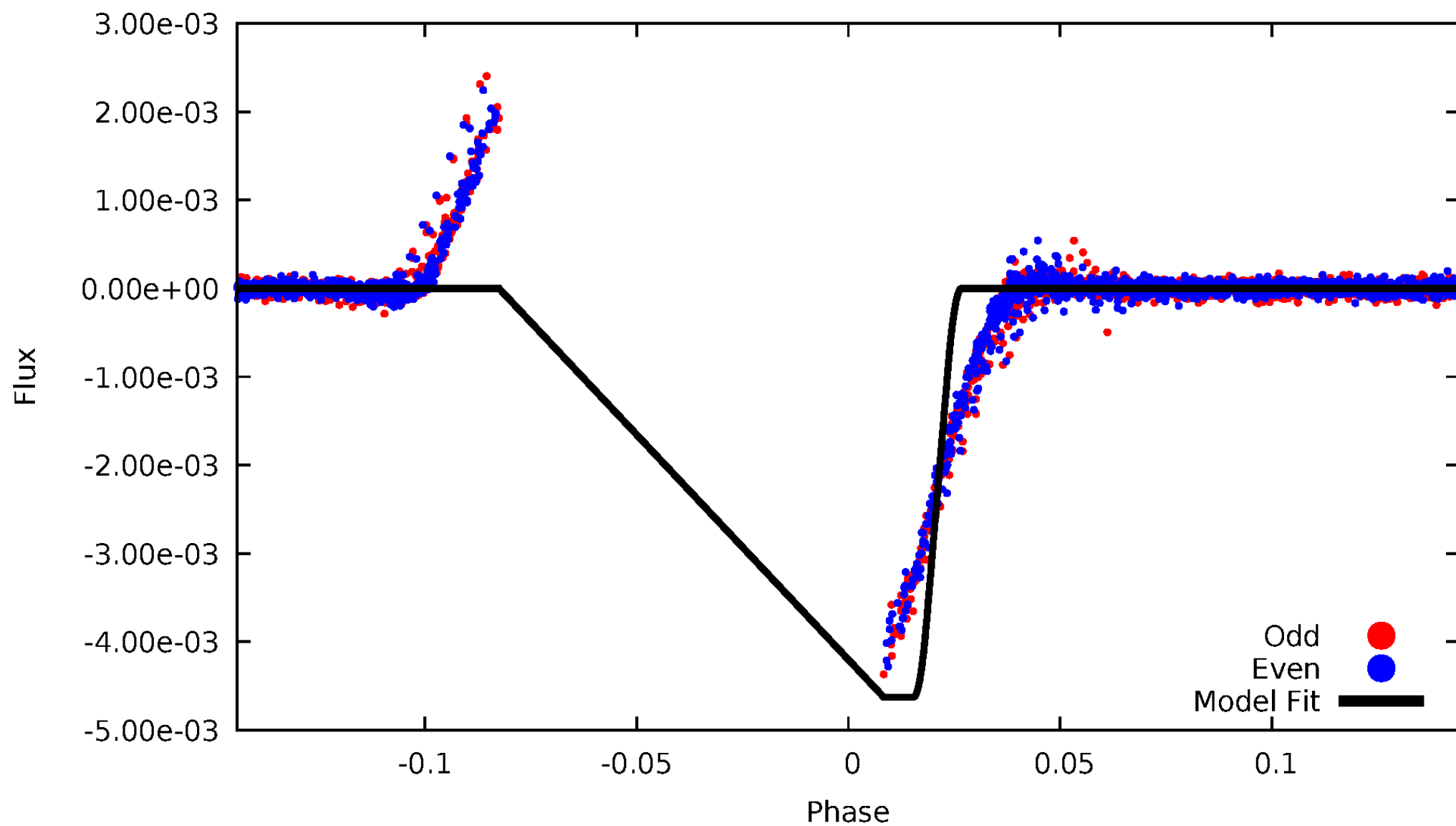
DV Odd/Even

TCE 010925227-02



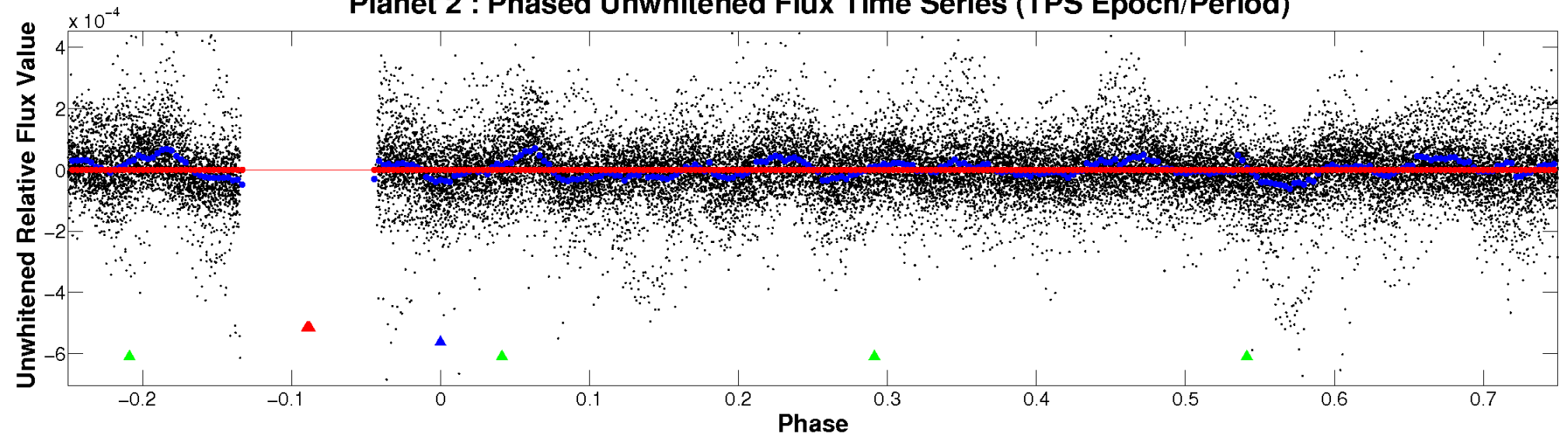
ALT Odd/Even

TCE 010925227-02

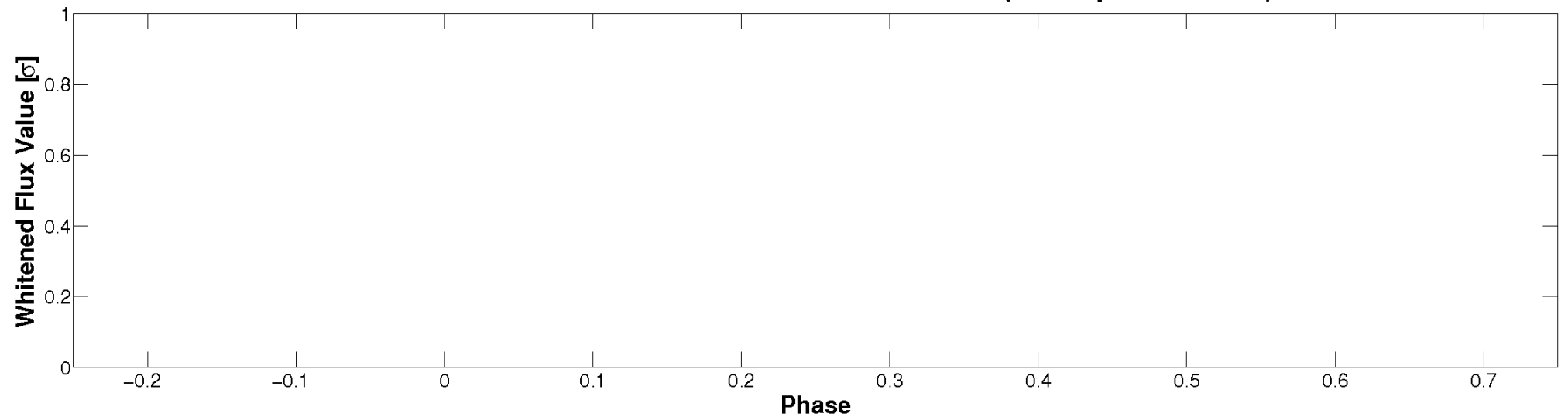


Non-Whitened Vs. Whitened Light Curve

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

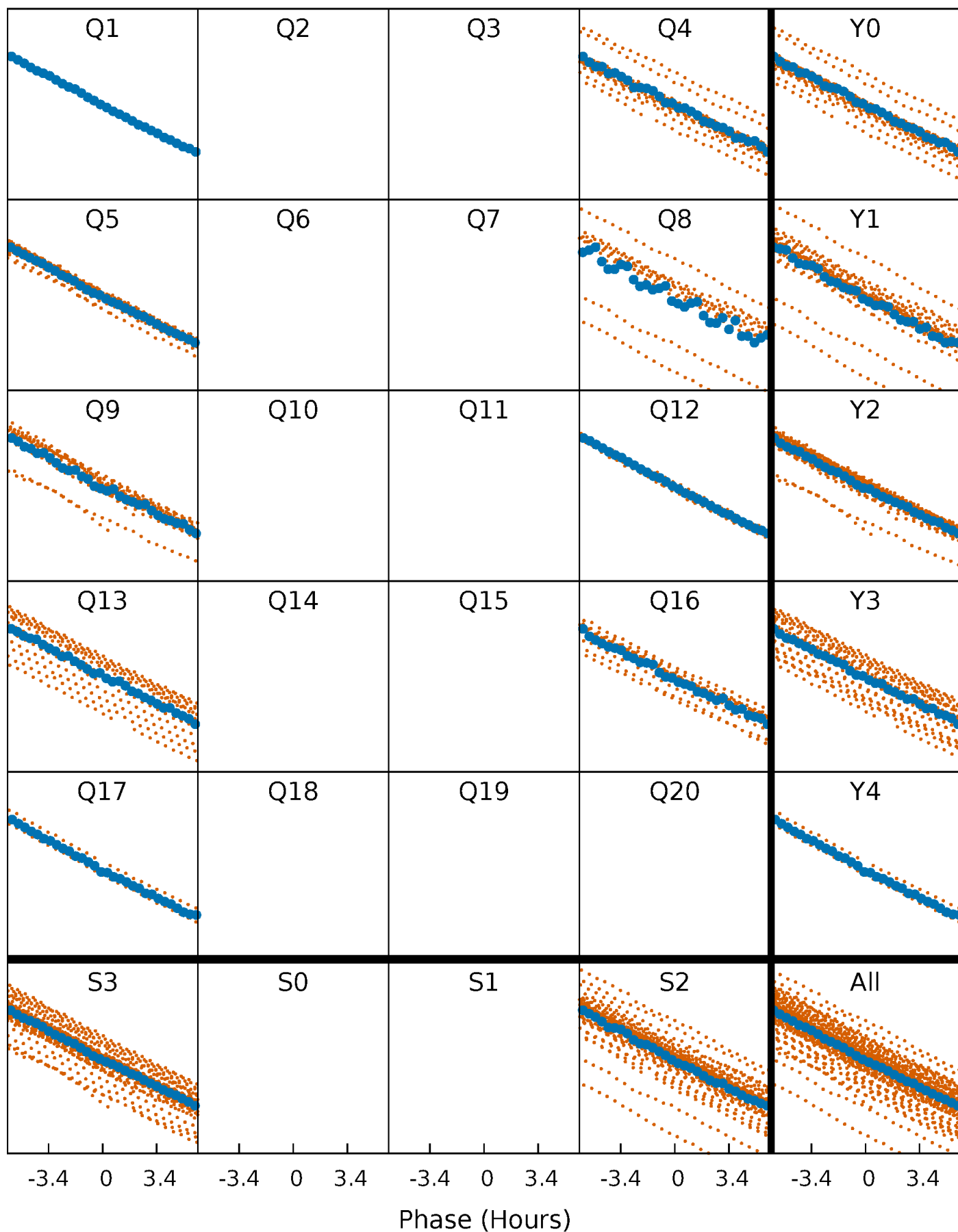


Planet 2 : Phased Whitened Flux Time Series (TPS Epoch/Period)



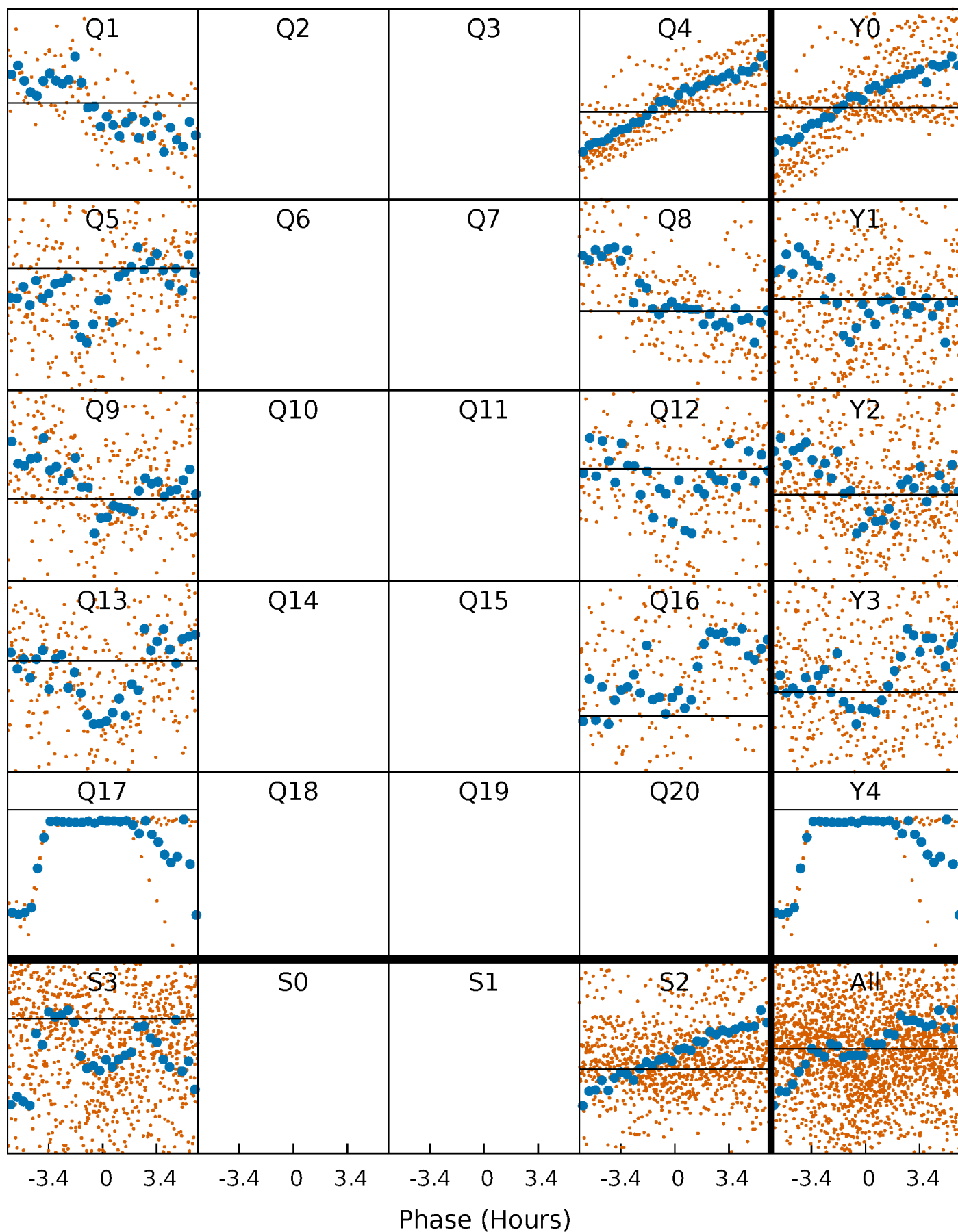
PDC Quarter-Phased Transit Curves

TCE 010925227-02 P= 6.452123 Days $T_0=131.657027$ (BKJD)



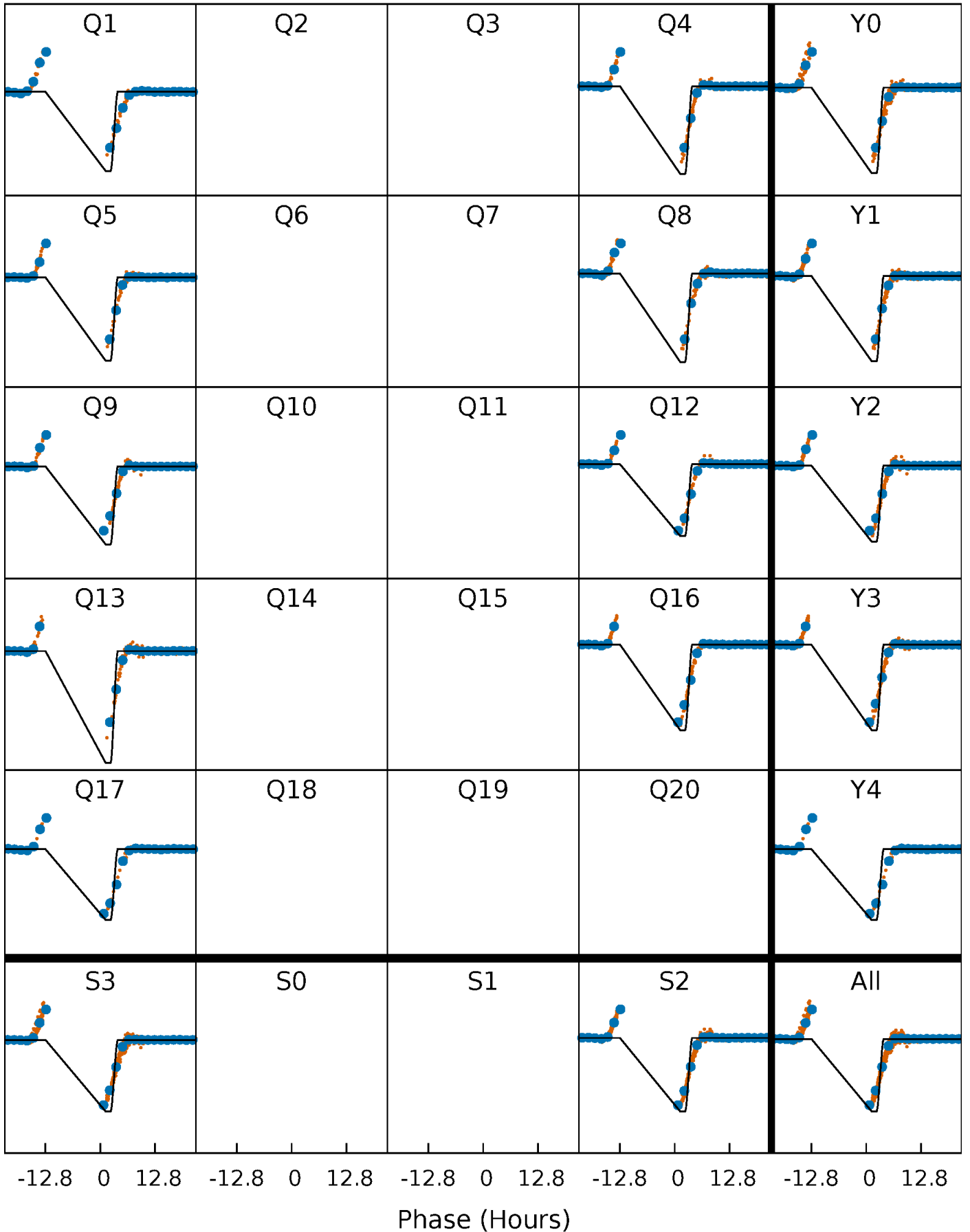
DV Quarter-Phased Transit Curves

TCE 010925227-02 $P = 6.452123$ Days $T_0 = 131.657027$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

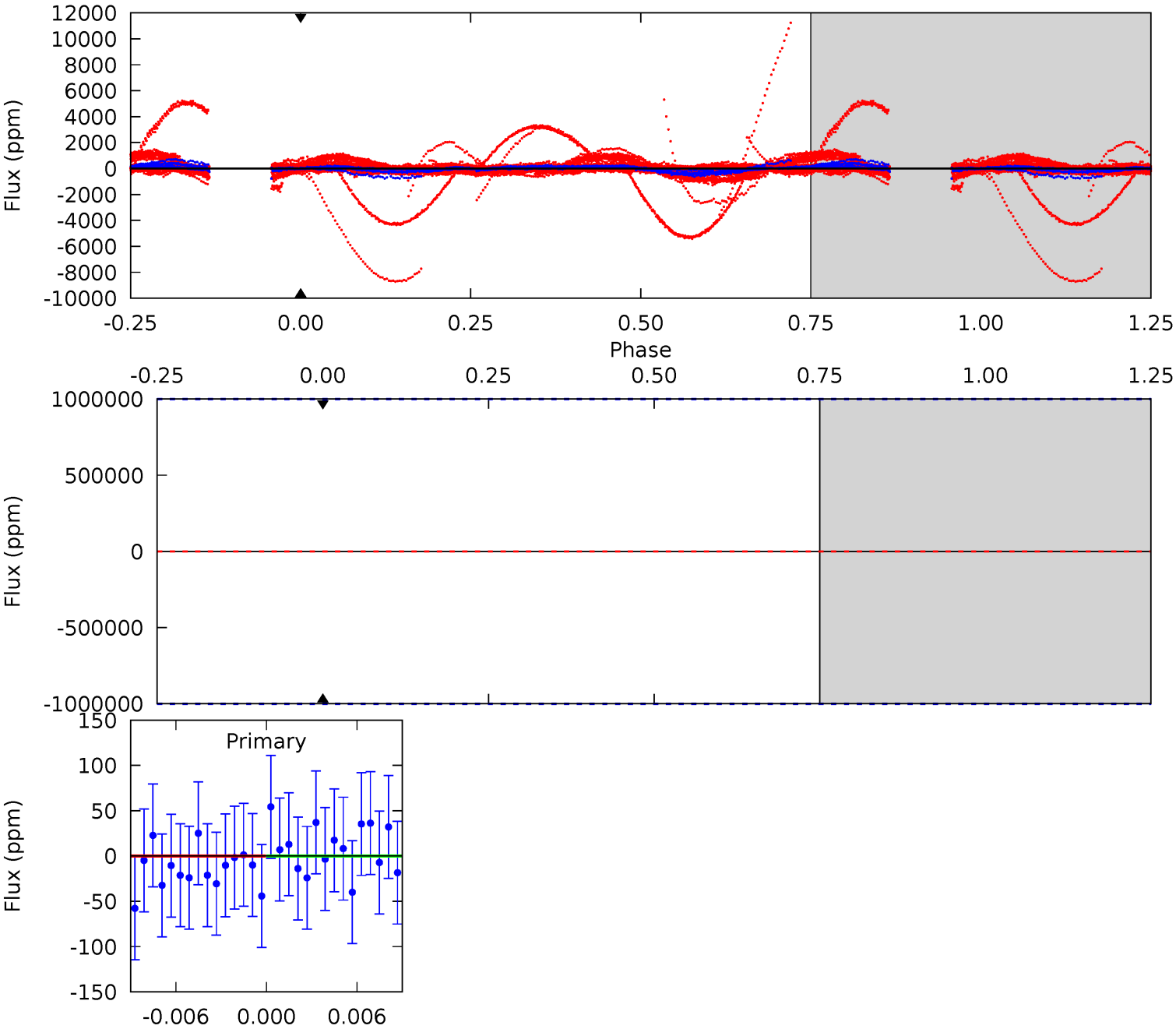
TCE 010925227-02 P= 6.452123 Days $T_0=137.774521$ (BKJD)



DV Model-Shift Uniqueness Test

010925227-02, P = 6.452123 Days, E = 125.204904 Days

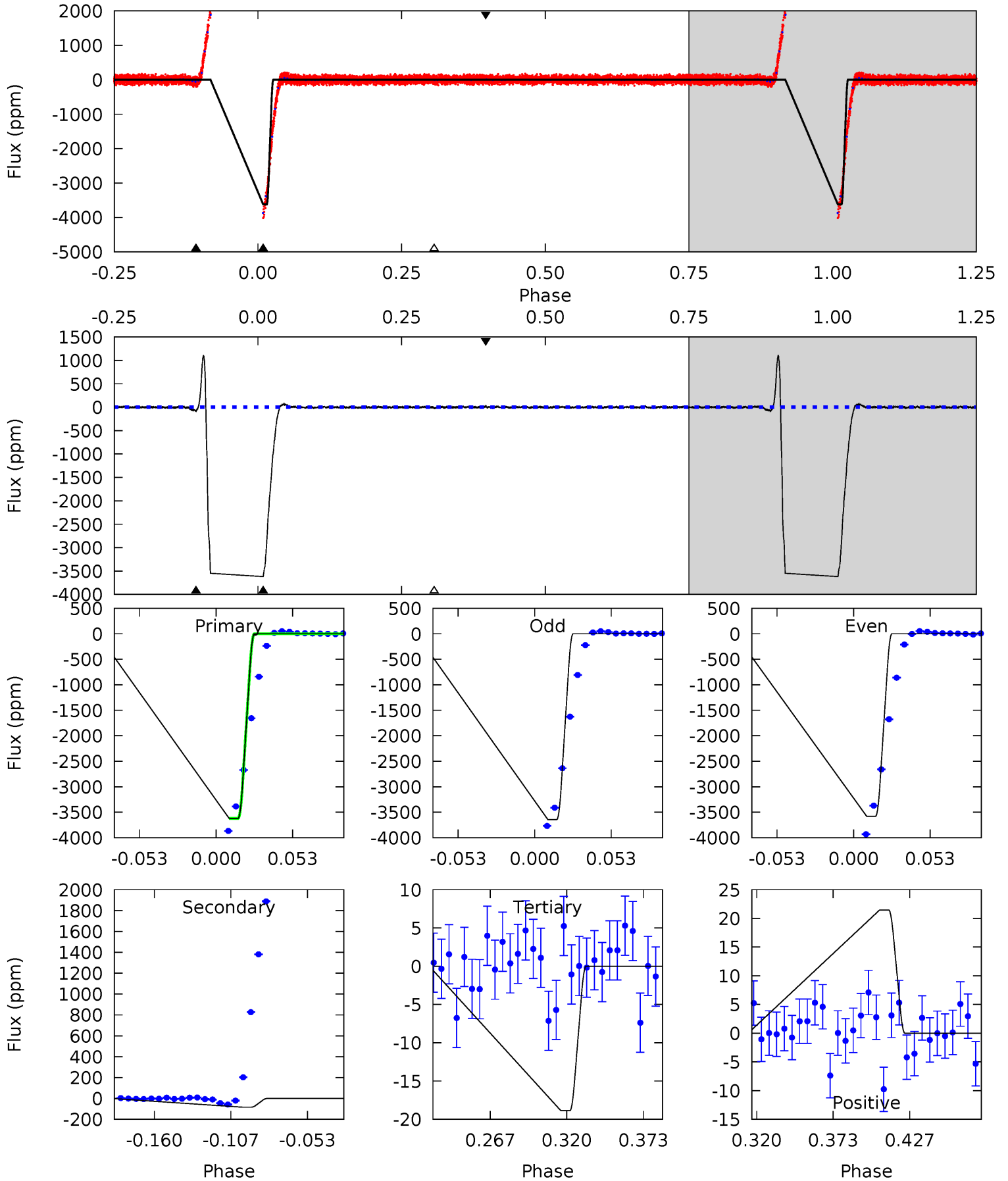
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

010925227-02, P = 6.452123 Days, E = 131.322398 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
884.4	20.4	4.61	5.24	4.70	1.93	1.51	879.7	879.1	15.8	15.2	7.63	1.04	0.23	0



Stellar Parameters For KIC 010925227

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8633^{+383}_{-623}	$4.117^{+0.033}_{-0.297}$	$0.560^{+0.050}_{-0.200}$	$2.163^{+1.156}_{-0.136}$	$2.235^{+0.432}_{-0.216}$	$0.311^{+0.042}_{-0.213}$
	+4%/-7%	+1%/-7%	+9%/-36%	+53%/-6%	+19%/-10%	+14%/-69%
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 010925227-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$19.63^{+18.77}_{-12.63}$	2703^{+286}_{-201}	6810^{+50422}_{-48569}	29^{+2006}_{-1337}
Alt.	-83 ± 4	$24.88^{+23.67}_{-15.88}$	2713^{+294}_{-213}	2797^{+1612}_{-5386}	$0.587^{+4.135}_{-0.429}$

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

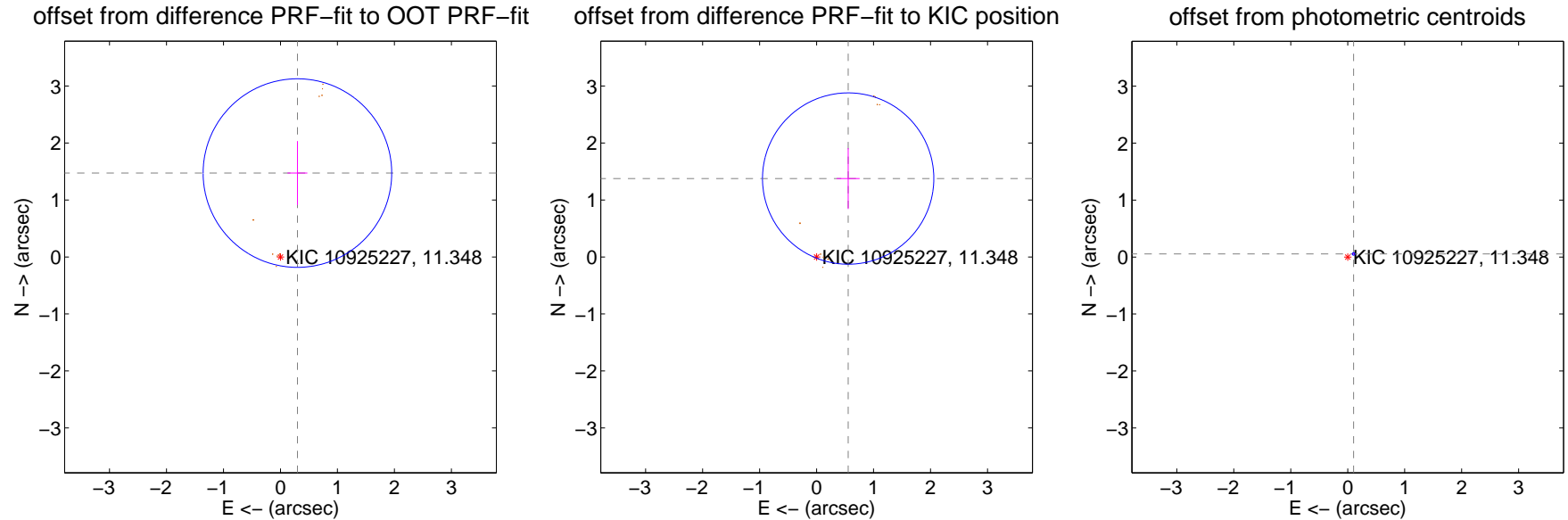
DV Centroid Data

Supplemental centroid analysis for 010925227-02. **Kepler magnitude: 11.35.** Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

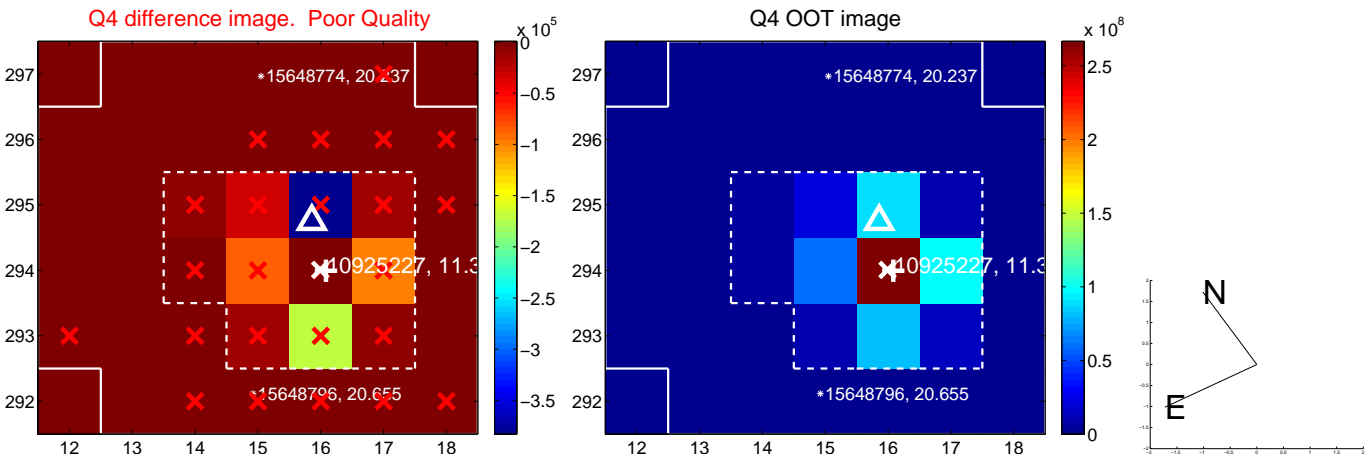
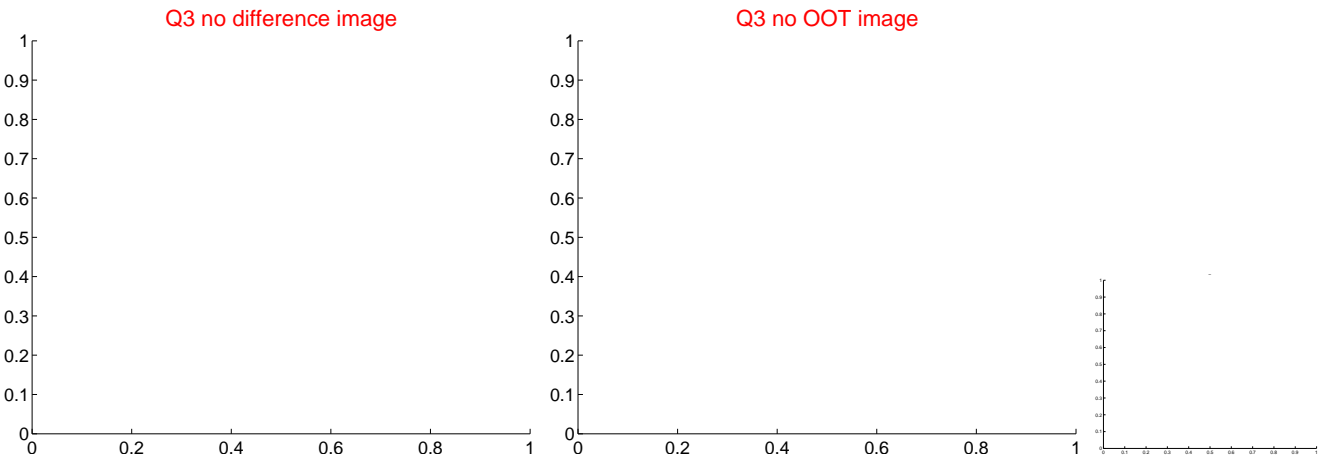
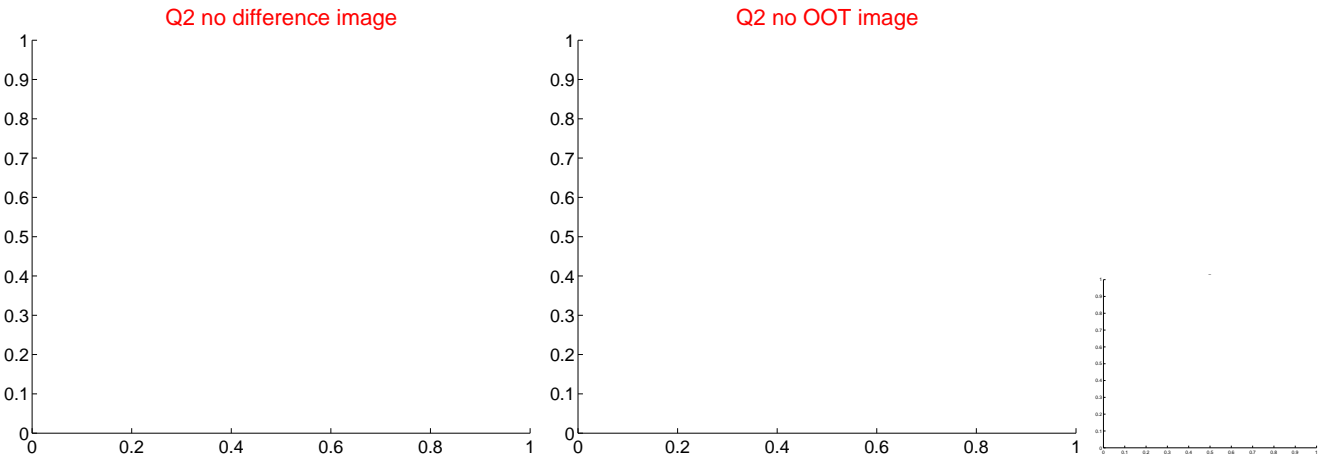
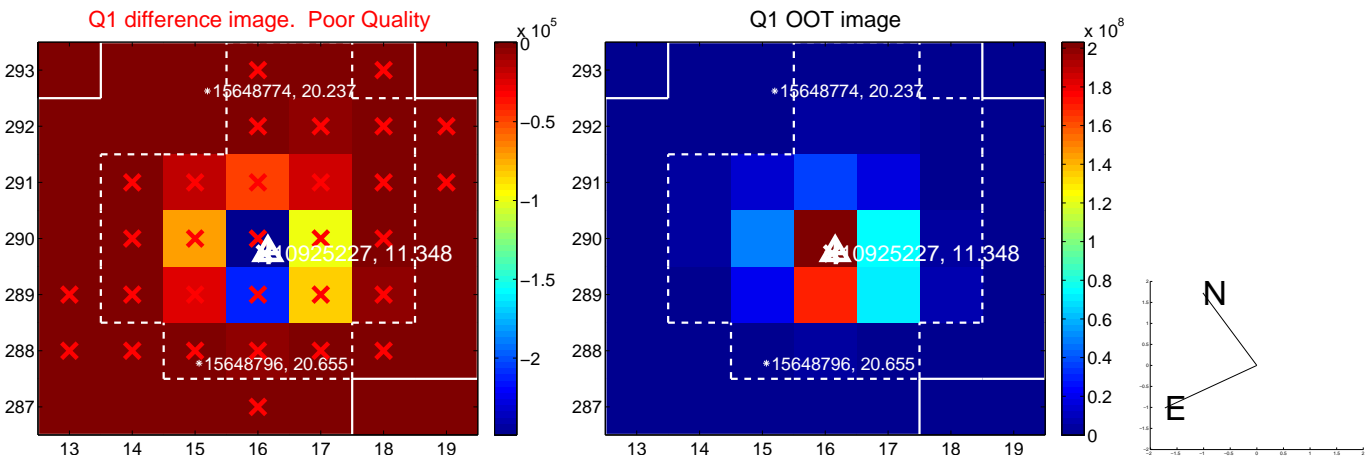
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.502 ± 0.552	2.72	-0.298 ± 0.175	1.472 ± 0.562
PRF-fit source offset from KIC position	1.484 ± 0.501	2.96	-0.554 ± 0.202	1.376 ± 0.534
photometric centroid source offset	0.12 ± 0.01	15.74	-0.10 ± 0.01	0.05 ± 0.01

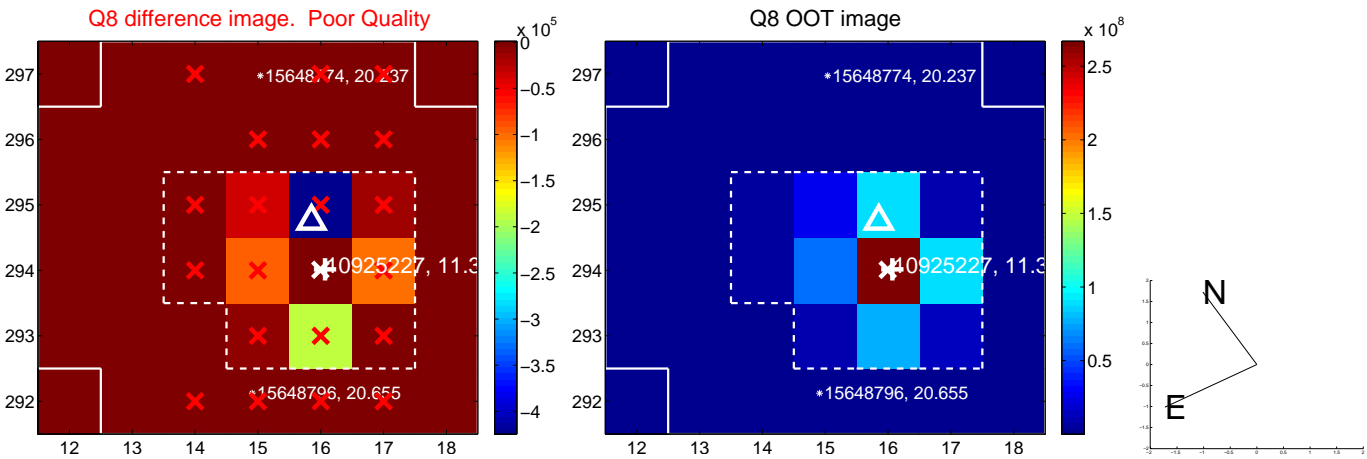
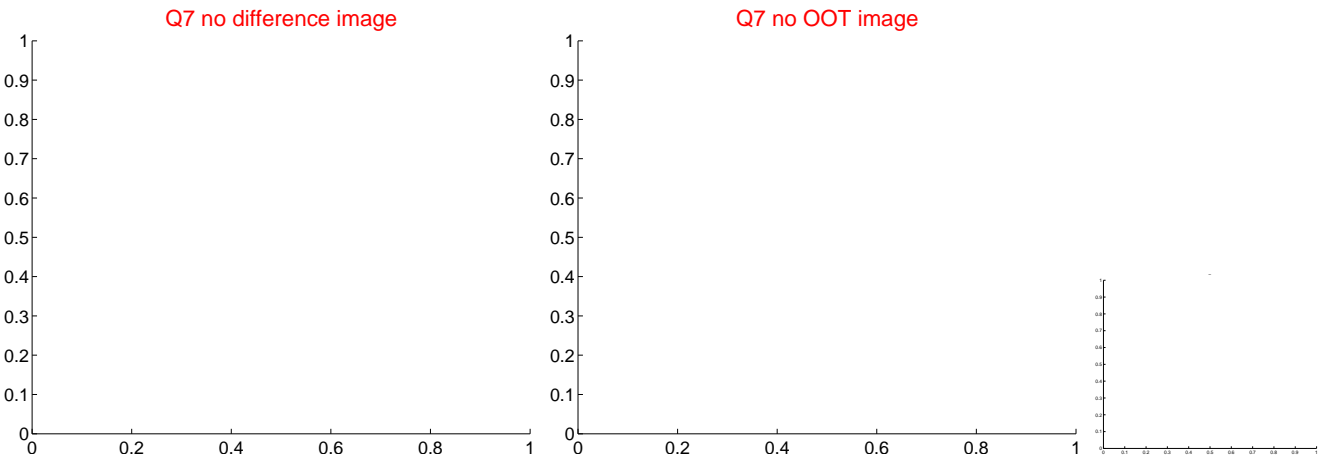
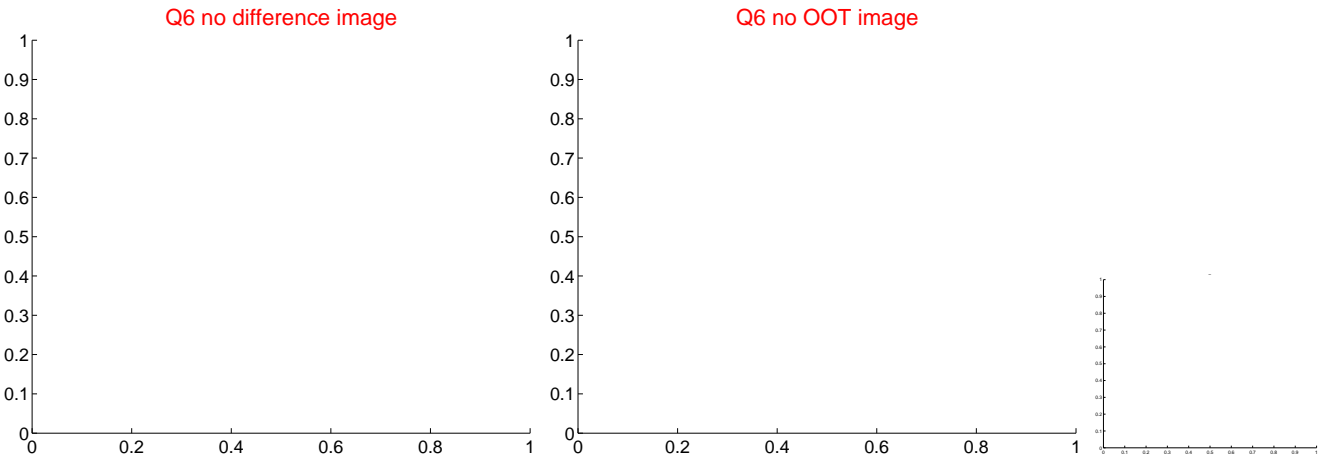
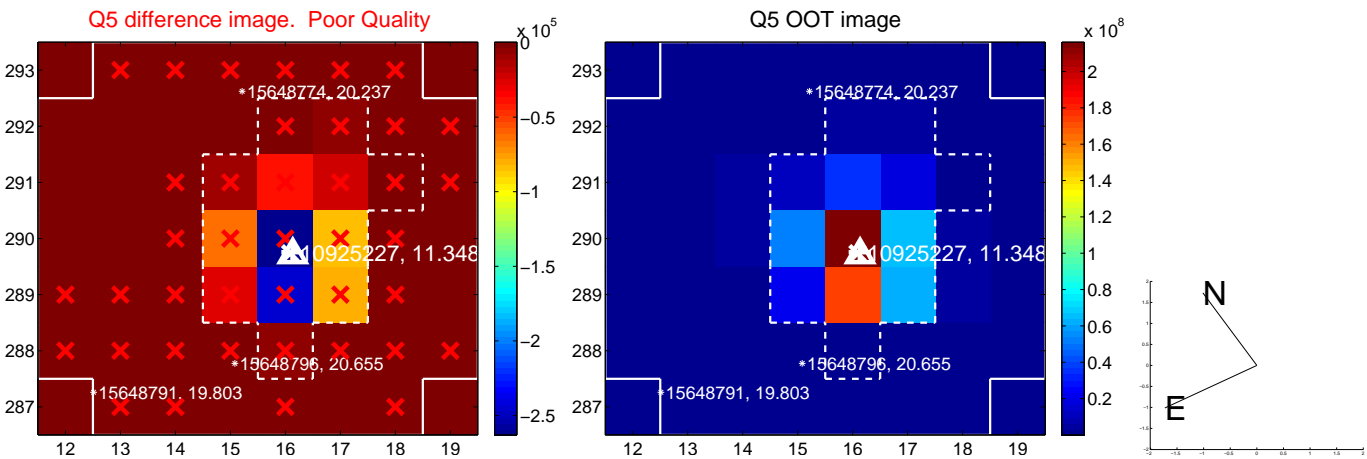


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

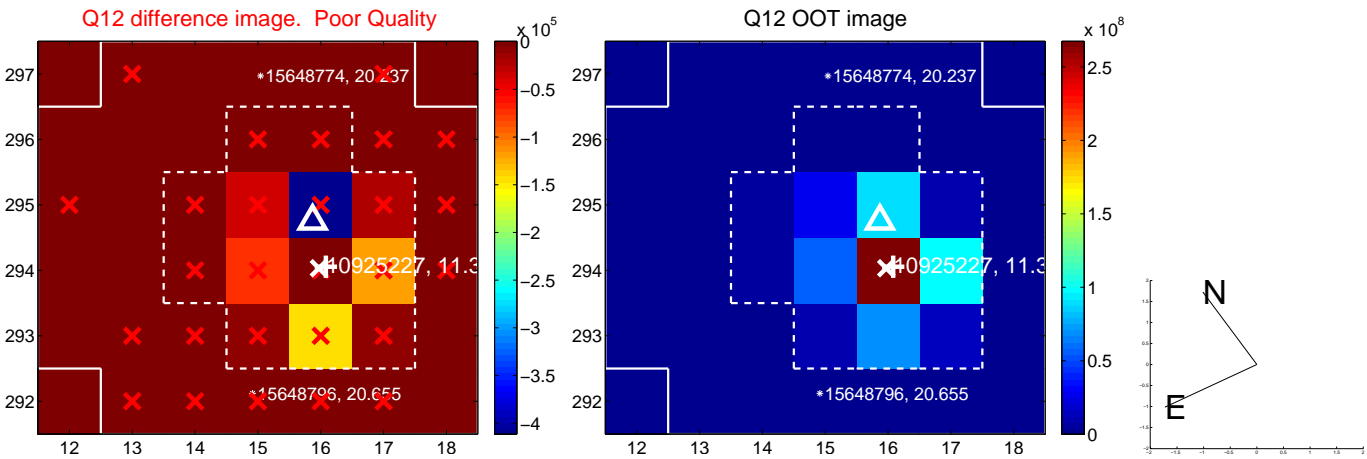
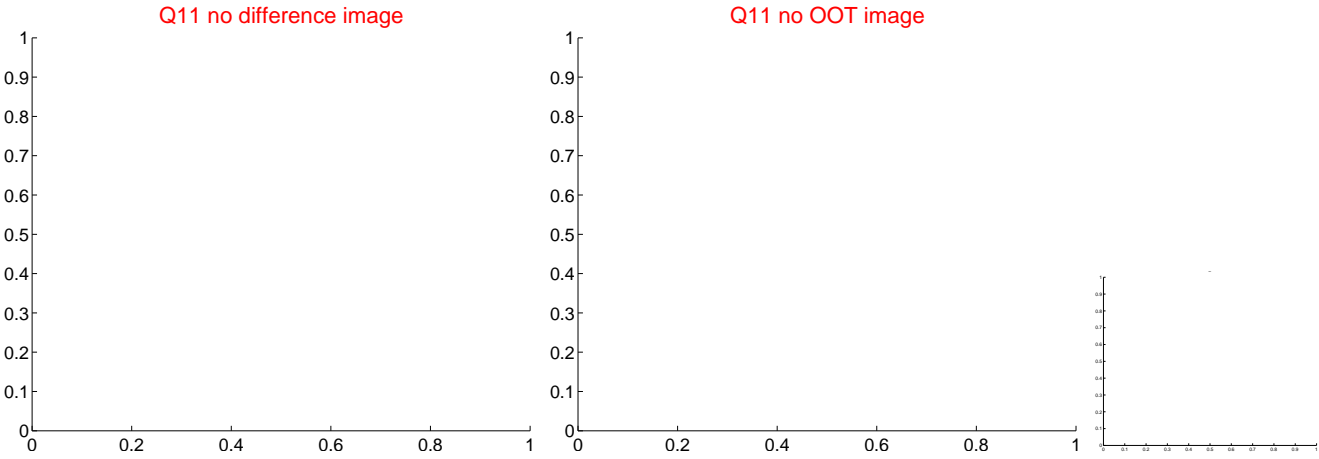
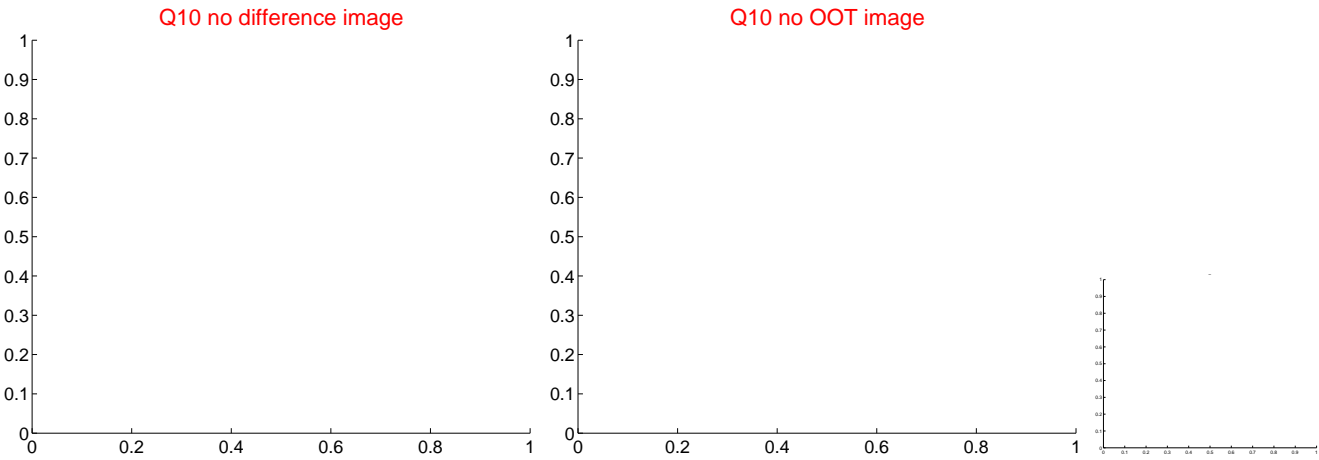
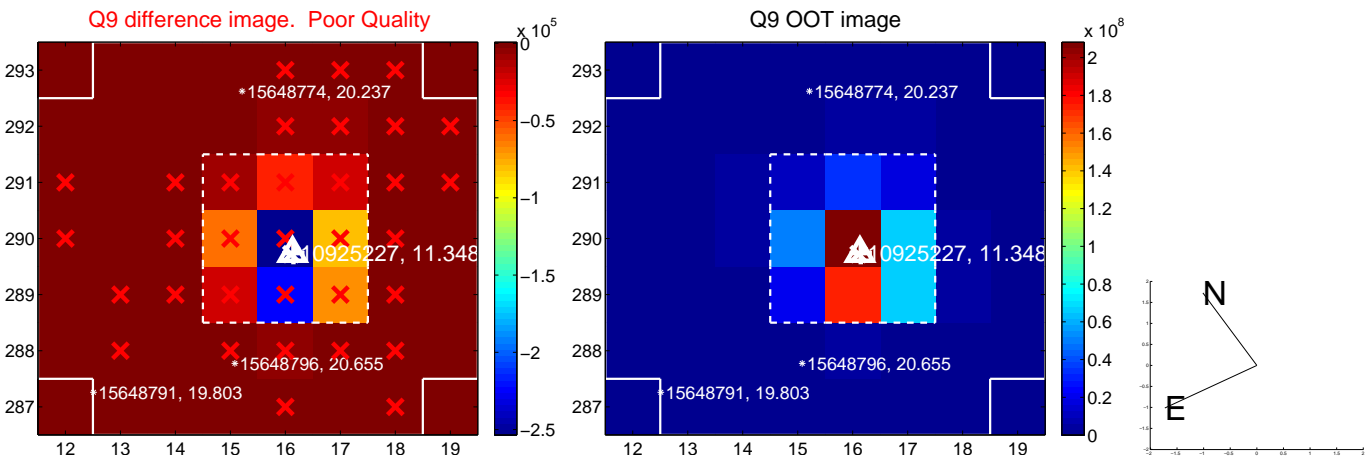
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



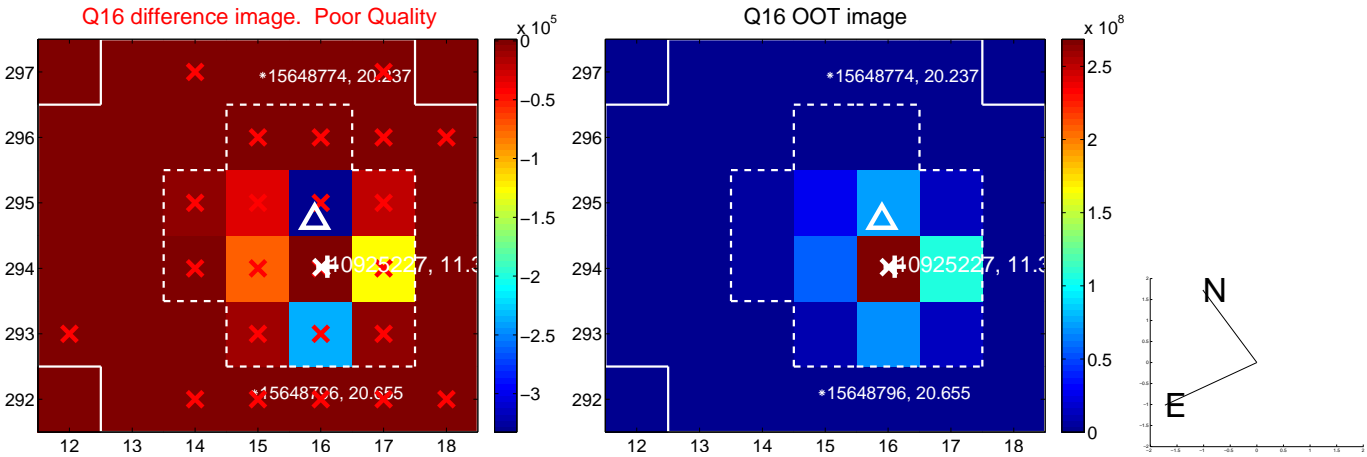
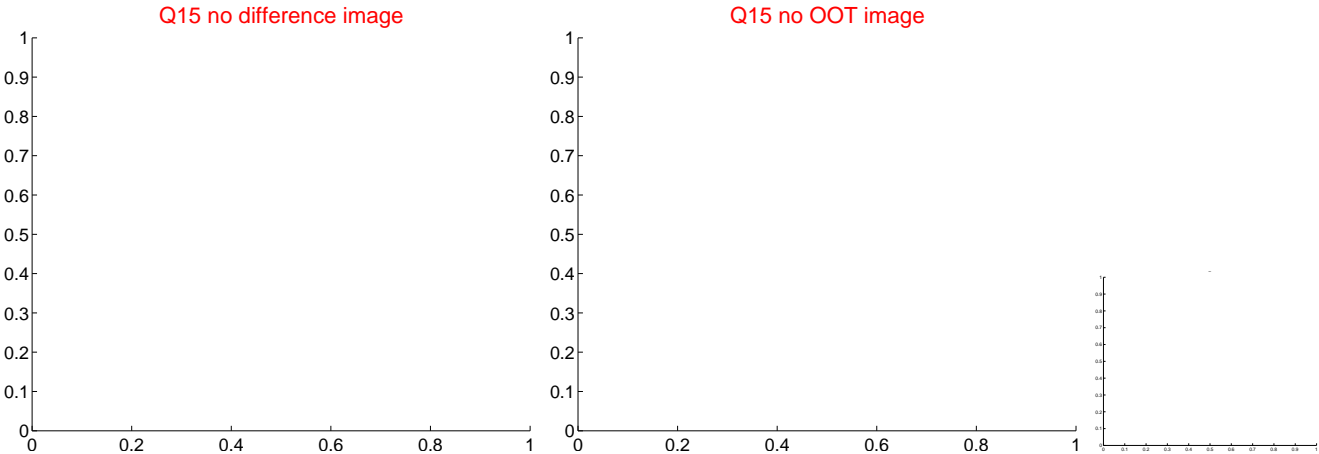
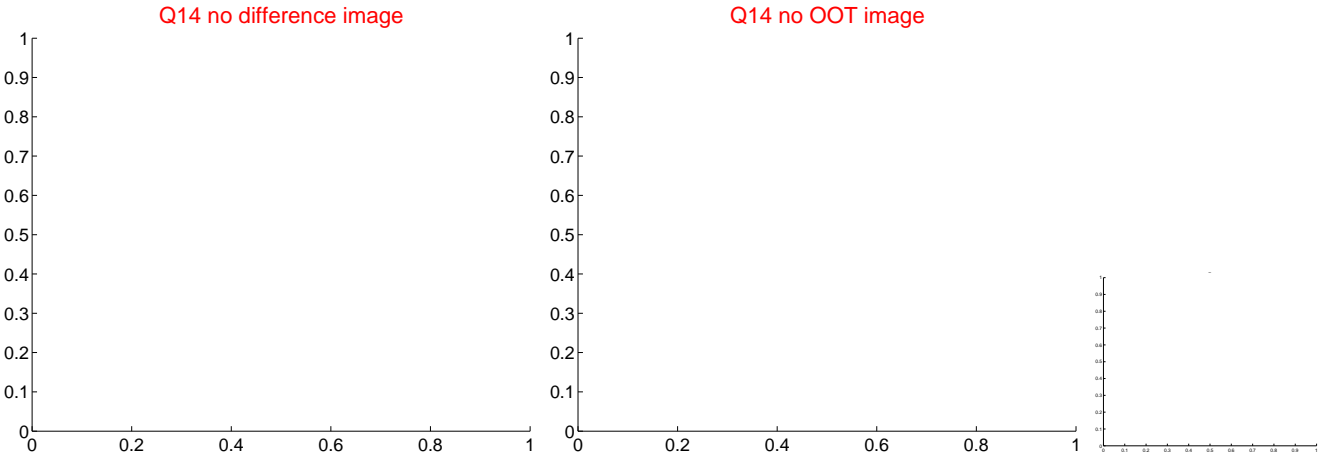
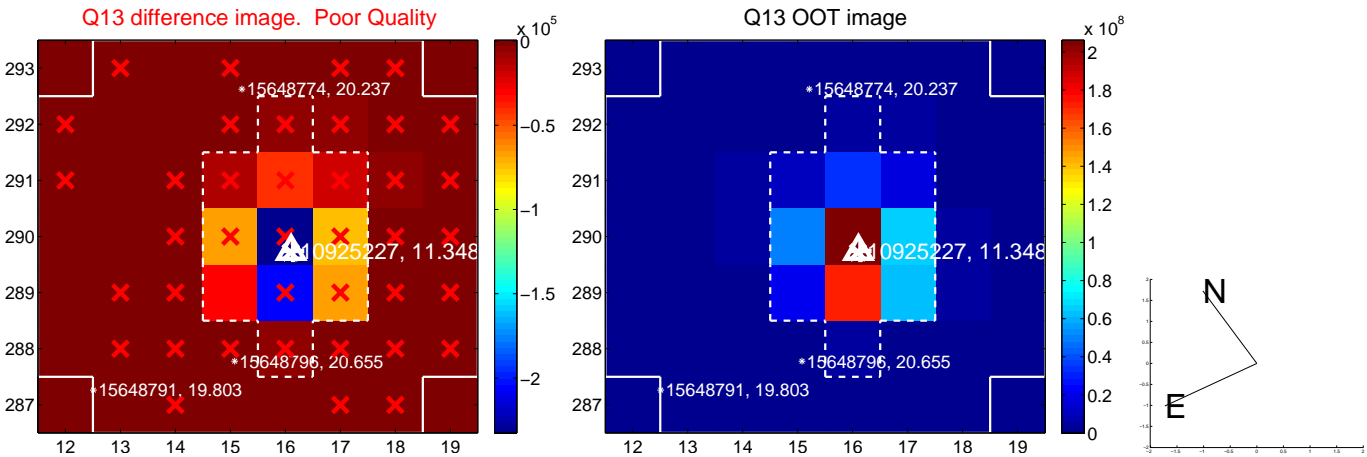
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



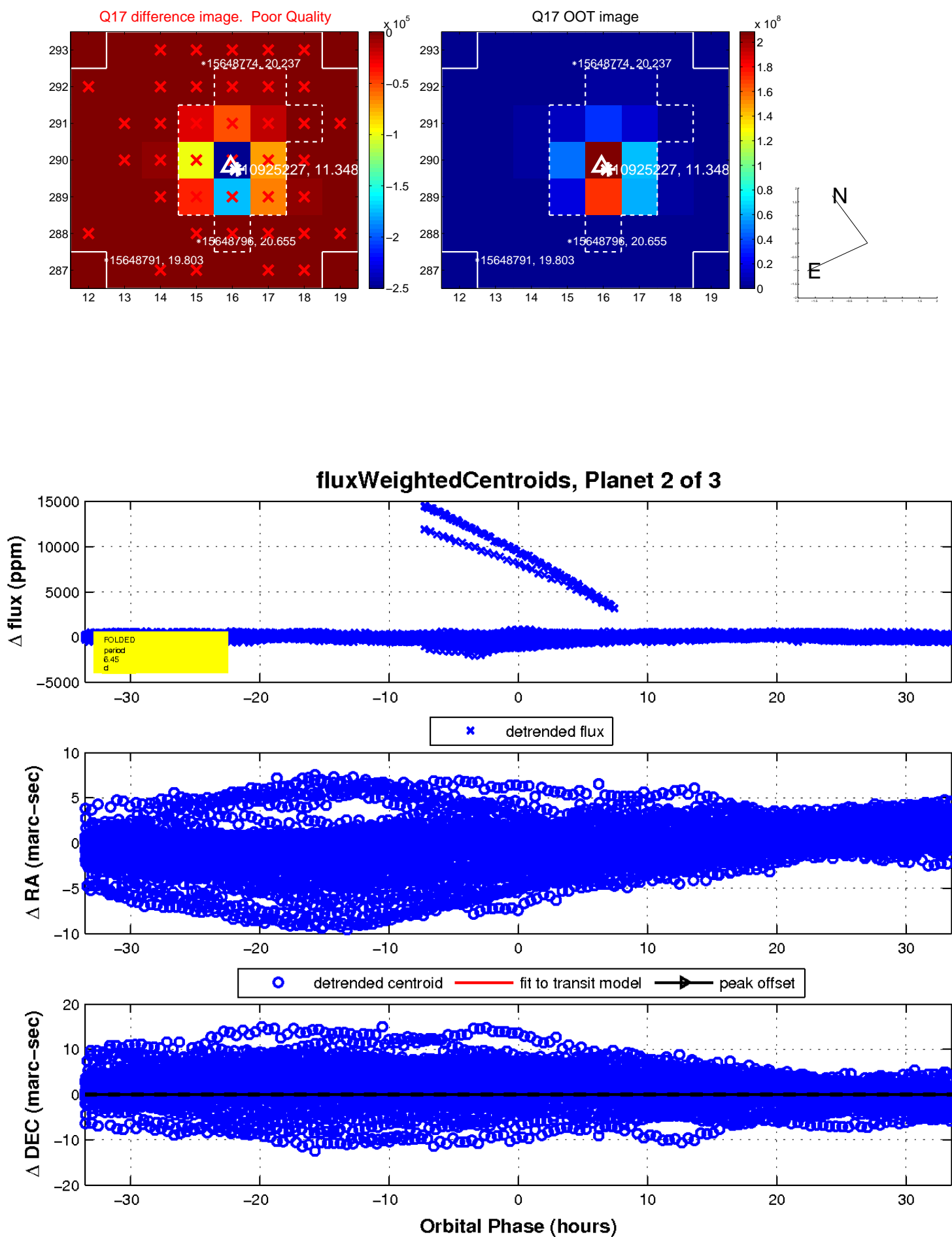
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

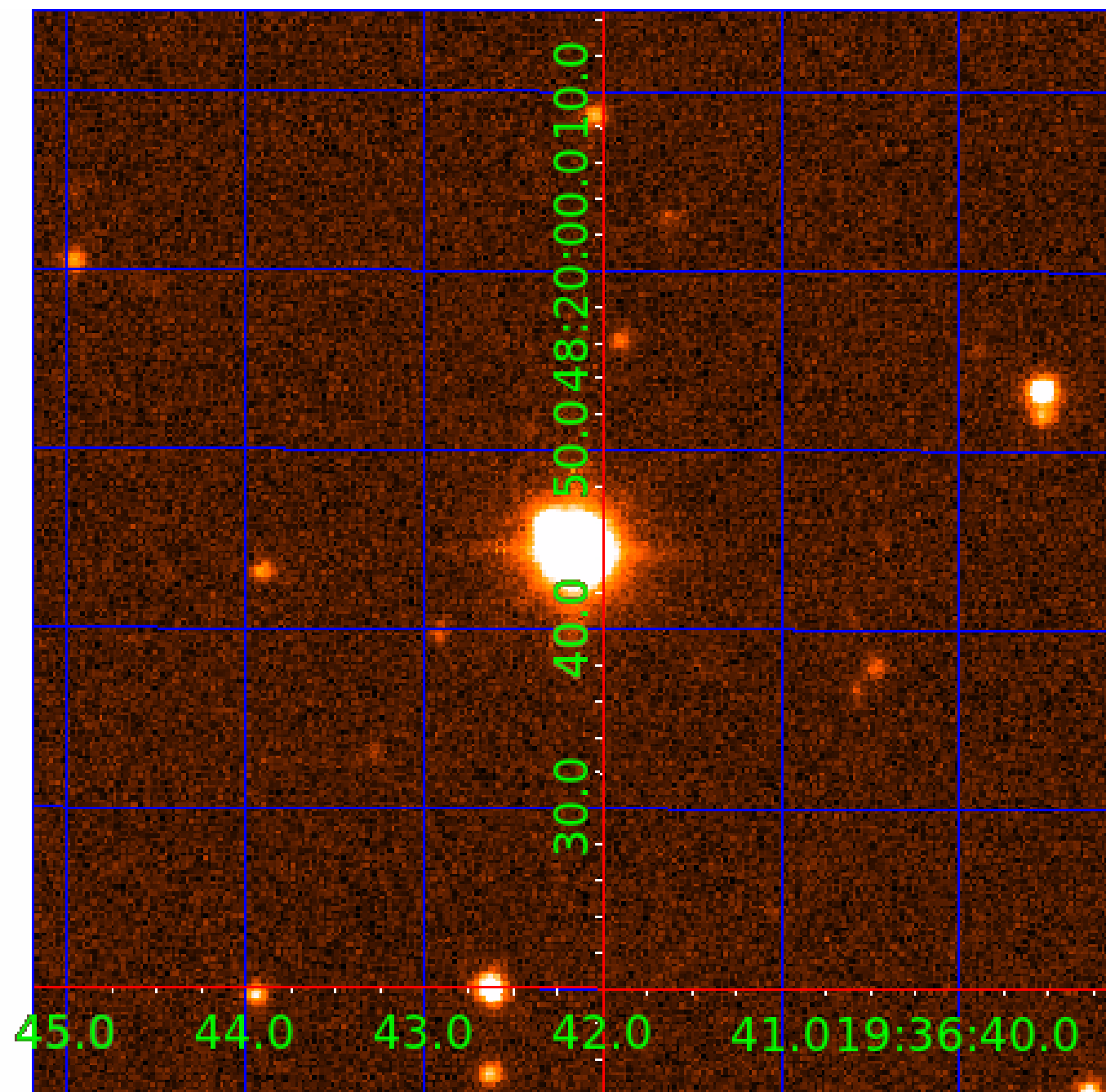


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010925227

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})
010925227-01	OBS	No	6.452070	137.542779	43.4	4.585	9.8	9.5	2.16	8633	1.62	2960.15
010925227-02	OBS	No	6.452123	131.657027	57.8	3.000	8.2	-1.0	2.16	8633	1.67	2960.12
010925227-03	OBS	No	1.613031	131.923059	4.0	3.549	8.2	1.8	2.16	8633	0.50	18795.56

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010925227-01	OBS	FP	0.00	1	0	1	0	LPP_DV—MOD_NONUNIQ_DV—CENT_SATURATED—HALO_GHOST
010925227-02	OBS	FP	0.00	1	0	0	0	LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED
010925227-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA_TRACKER—SWEET_NTL—LPP_DV—SAME_NTL_PERIOD—CENT_SATURATED

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

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

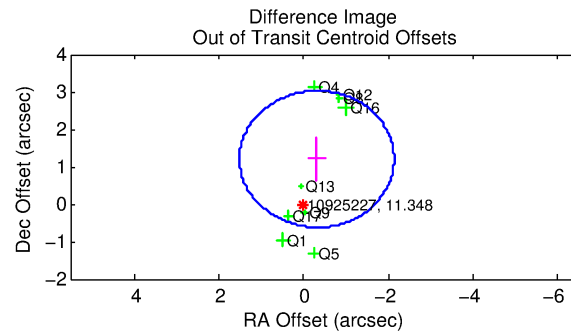
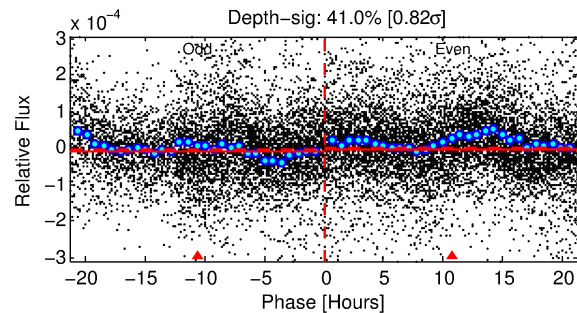
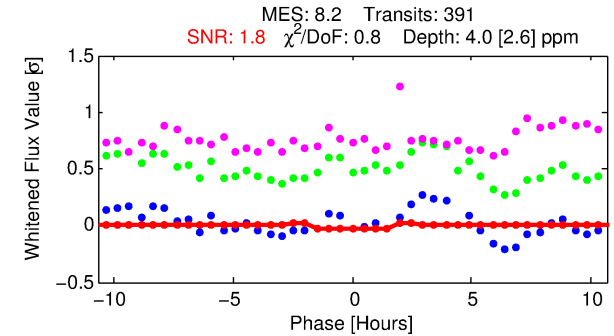
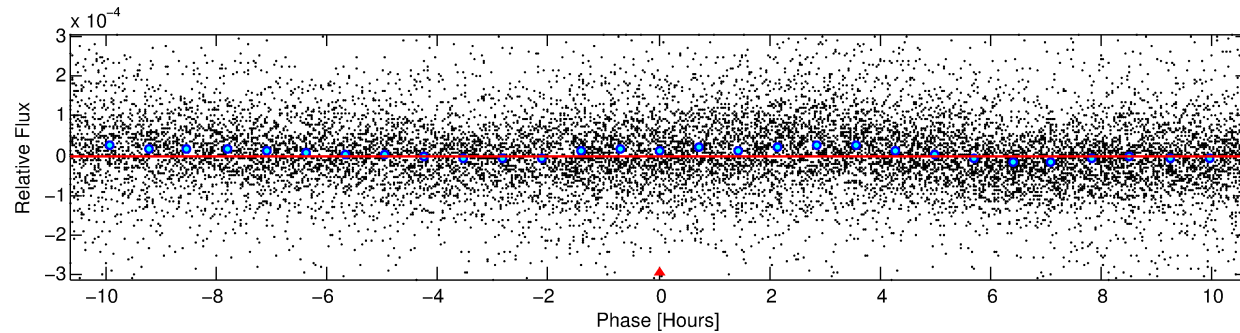
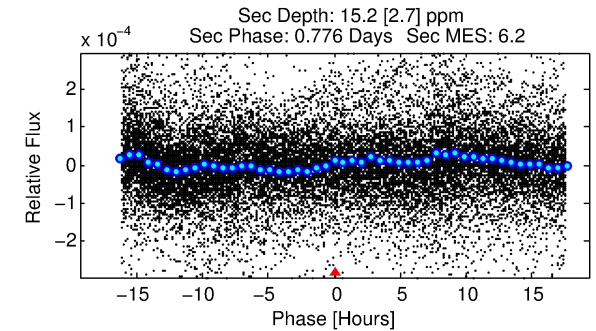
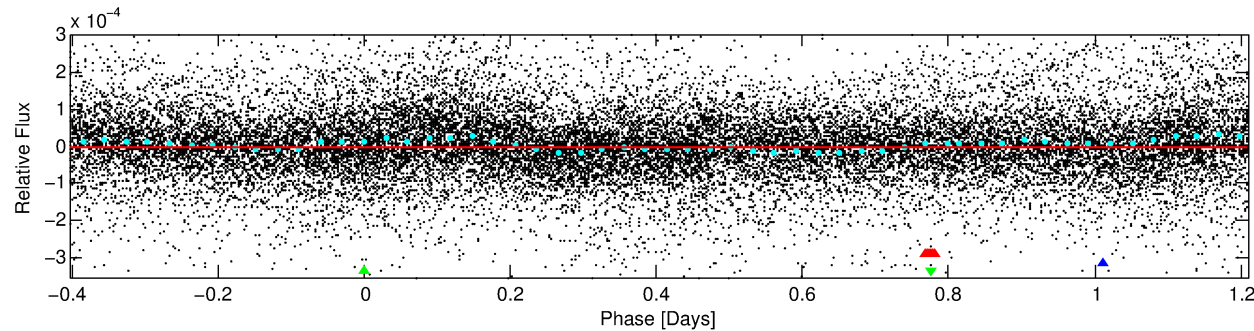
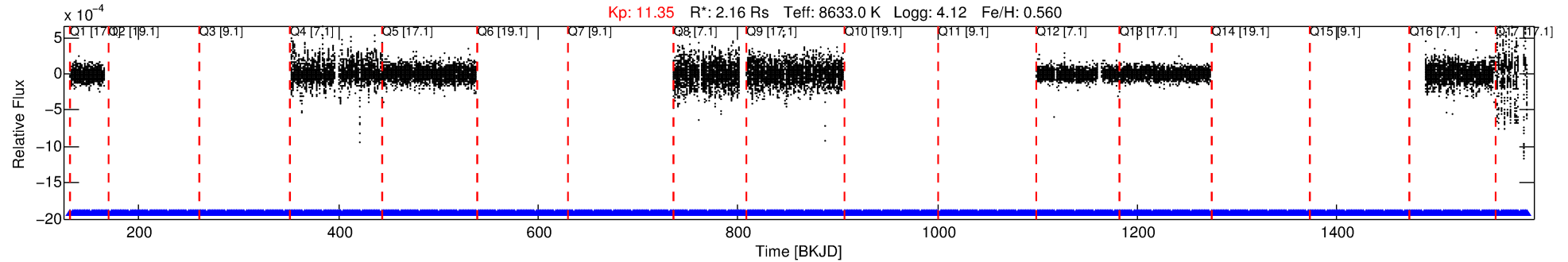
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010925227-03

No Significant Match Found

DV One-Page Summary

KIC: 10925227 Candidate: 3 of 3 Period: 1.613 d



DV Fit Results:

Period = 1.61303 [0.00006] d
Epoch = 131.9231 [0.0140] BKJD
Rp/R* = 0.0021 [0.0008]
a/R* = 1.81 [1.88]
b = 0.90 [0.33]
Seff = 18795.56 [12153.72]
Teq = 2986 [483] K
Rp = 0.50 [0.33] Re
a = 0.0352 [0.0149] AU
Ag = 41.80 [41.50] [0.98σ]
Teffp = 11737 [2514] K [3.42σ]

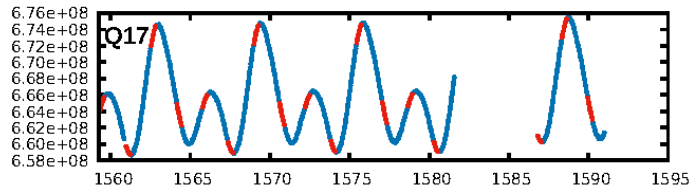
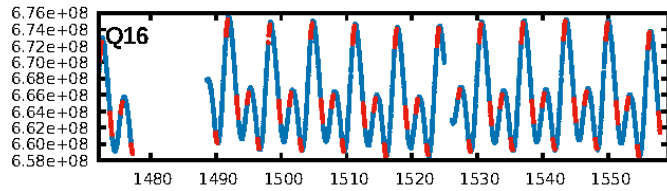
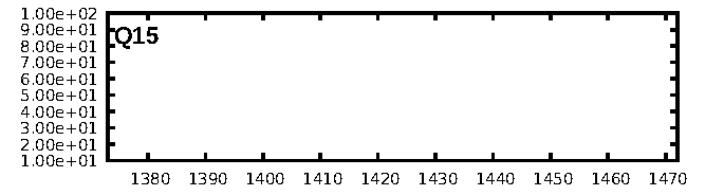
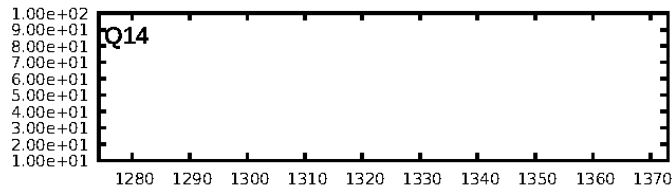
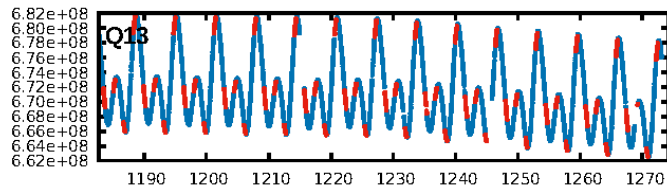
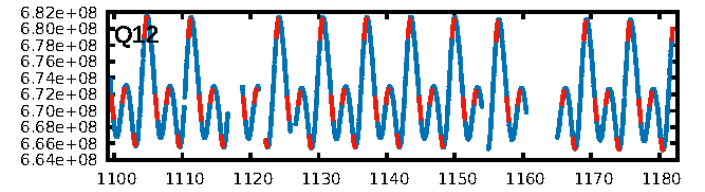
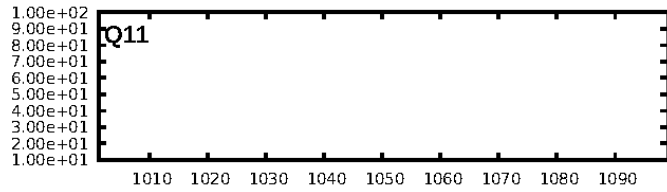
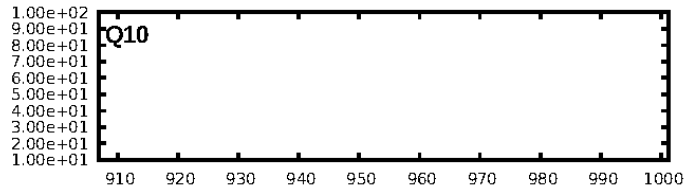
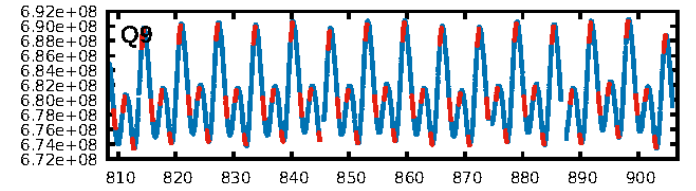
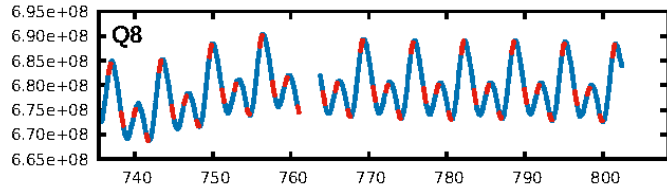
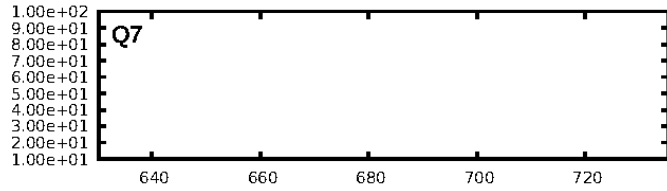
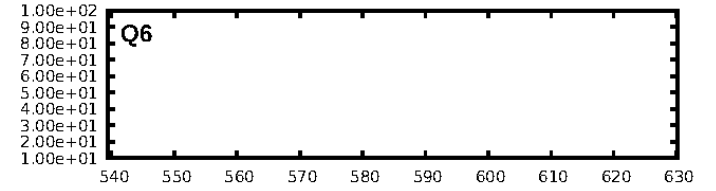
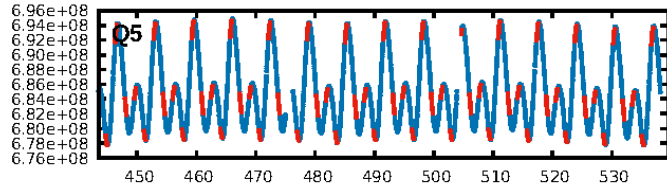
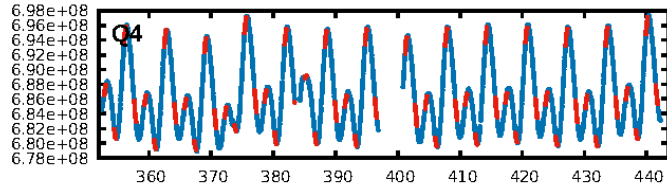
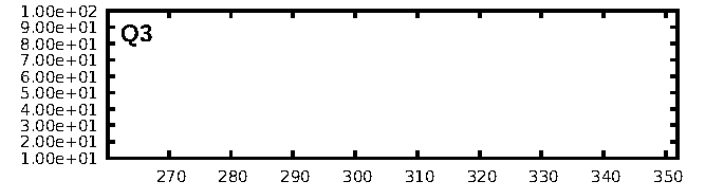
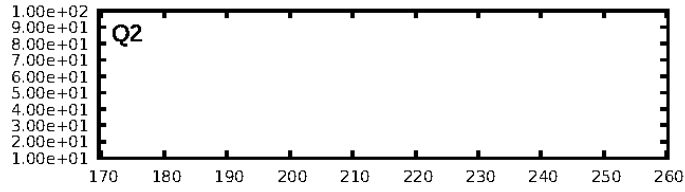
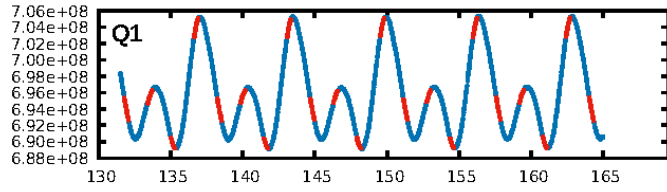
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [20.03σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.43e-13
RollingBand-fgt: 1.00 [353/353]
GhostDiagnostic-chr: N/A
Centroid-sig: N/A
Centroid-so: N/A
OotOffset-rm: 1.244 arcsec [2.05σ]
OotOffset-st: 0/0/4/5 [9]
KicOffset-rm: 1.262 arcsec [1.95σ]
KicOffset-st: 0/0/4/5 [9]
DiffImageQuality-fgm: 0.00 [0/9]
DiffImageOverlap-fno: 1.00 [9/9]

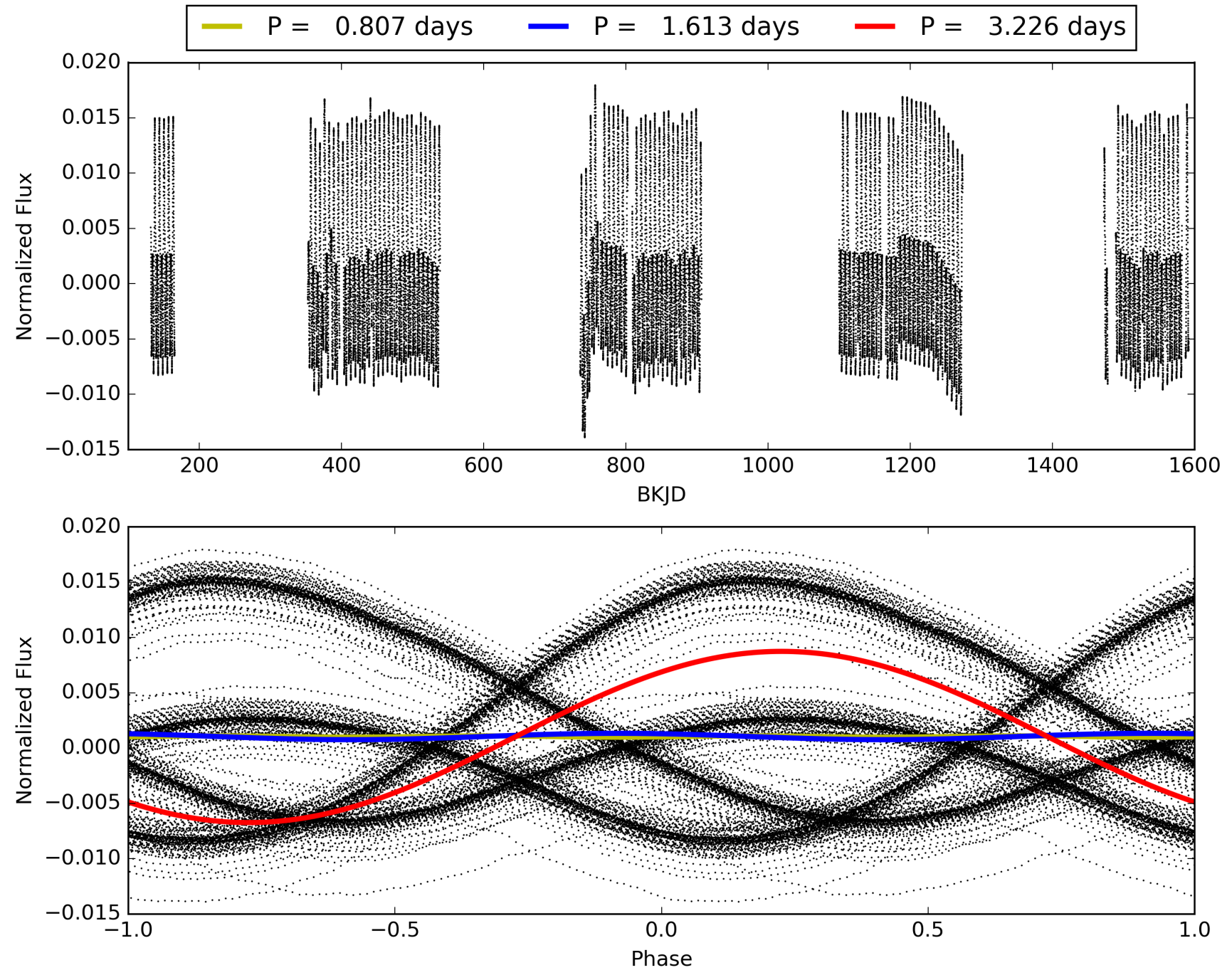
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 29-Jan-2016 06:33:46 Z

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

TCE 010925227-03, PDC Light Curves

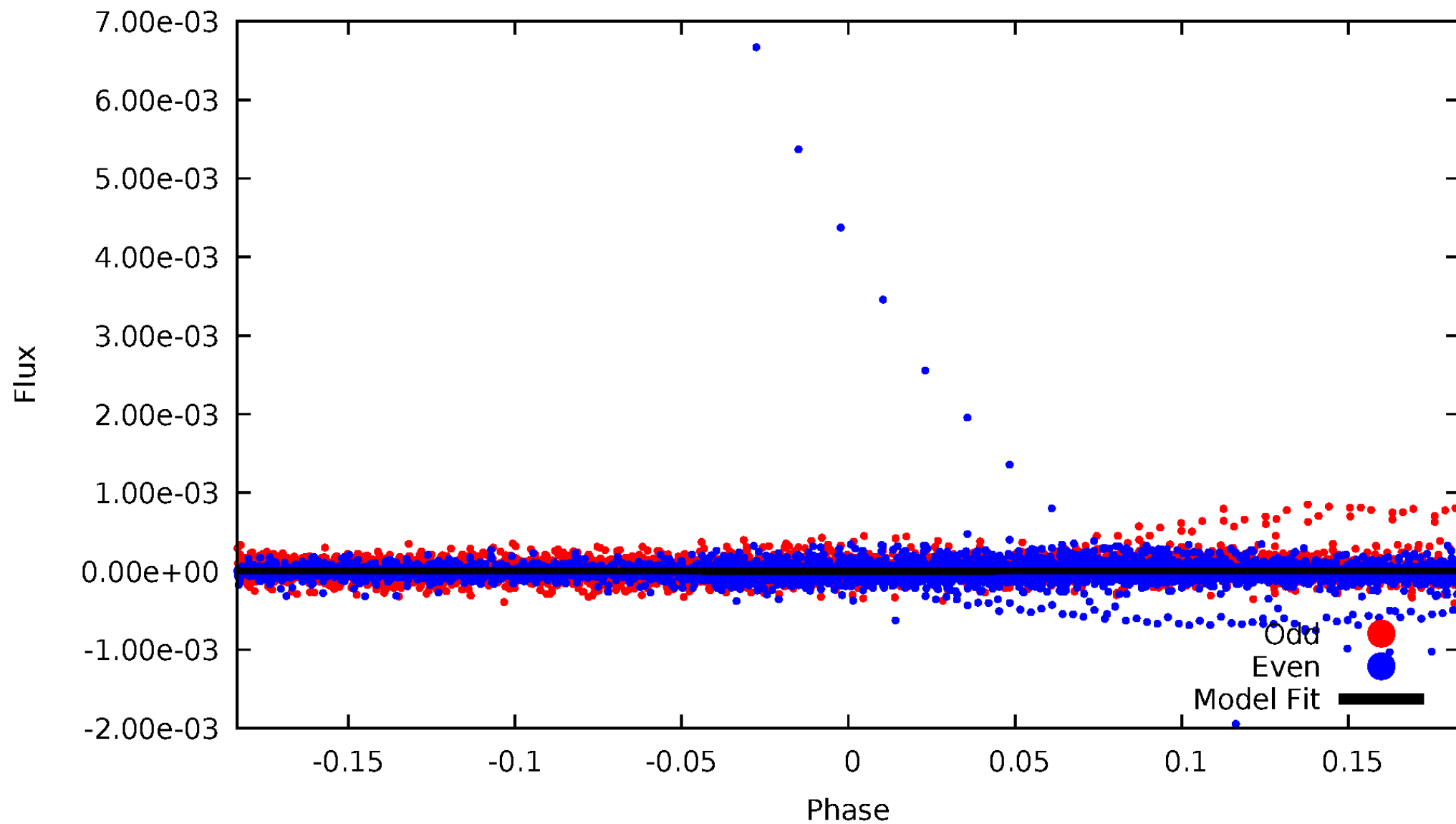


TCE 010925227-03



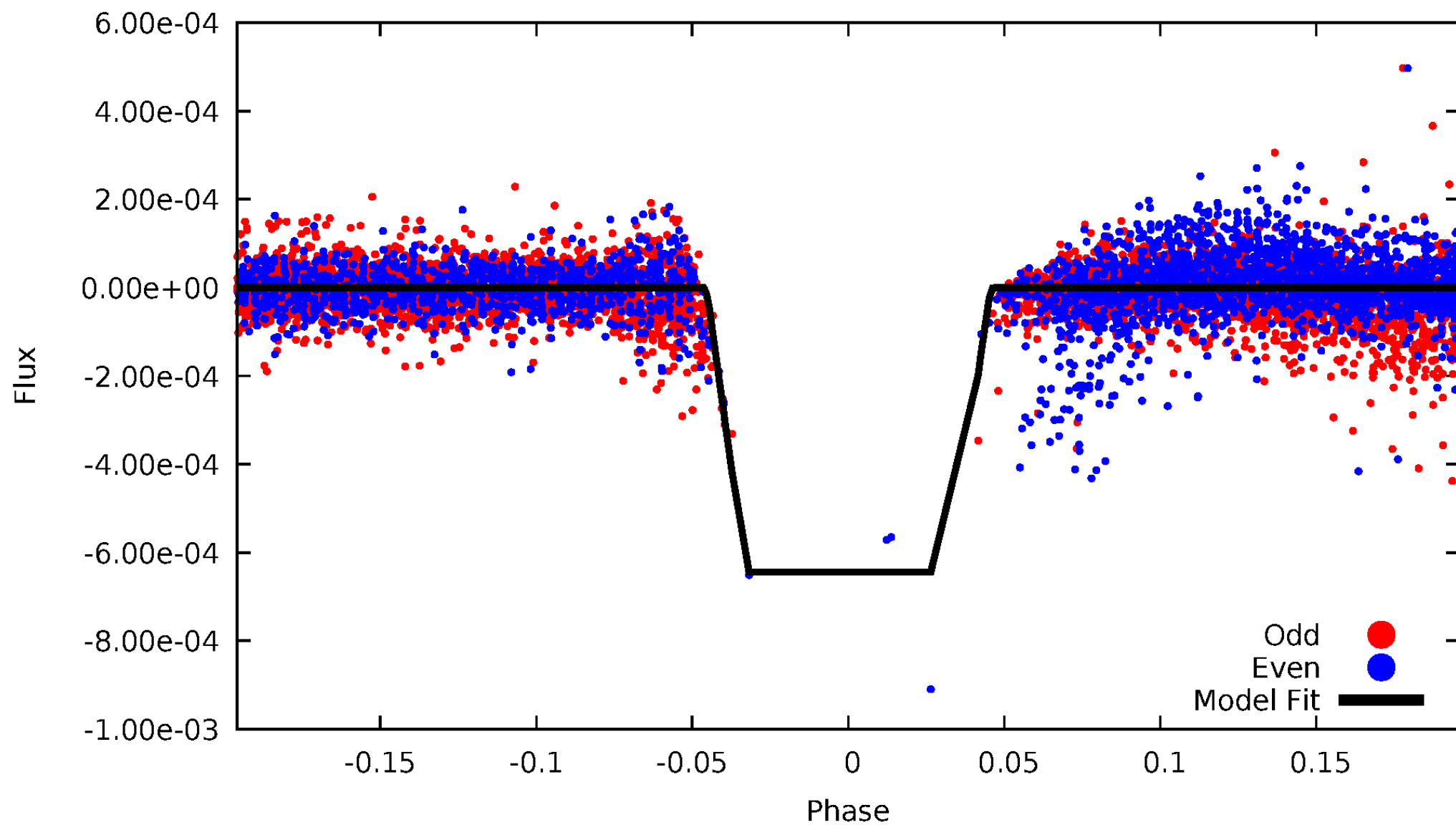
DV Odd/Even

TCE 010925227-03



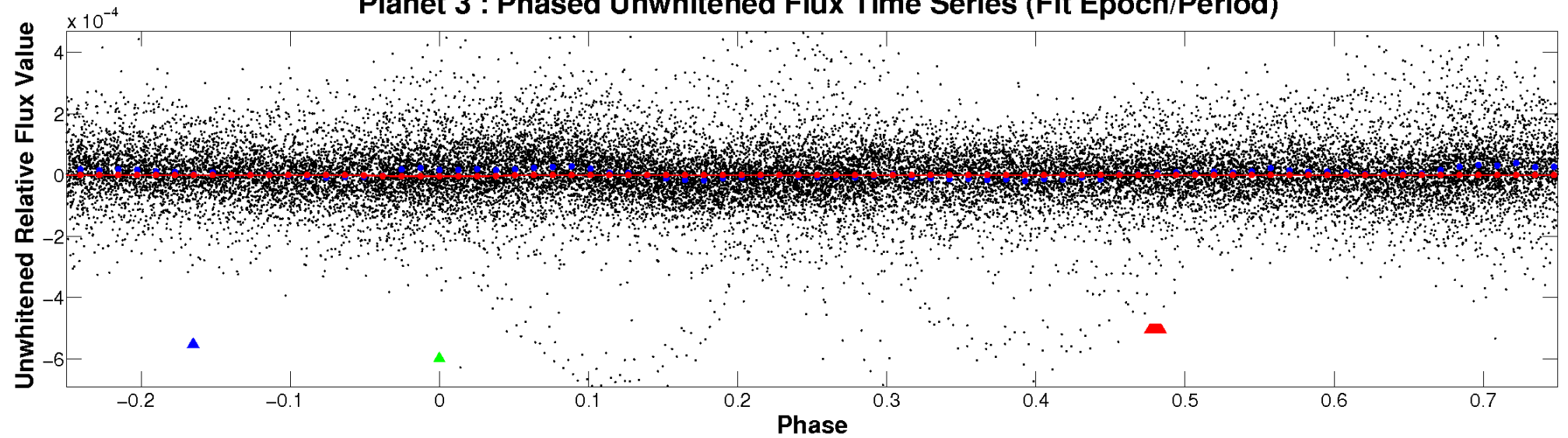
ALT Odd/Even

TCE 010925227-03

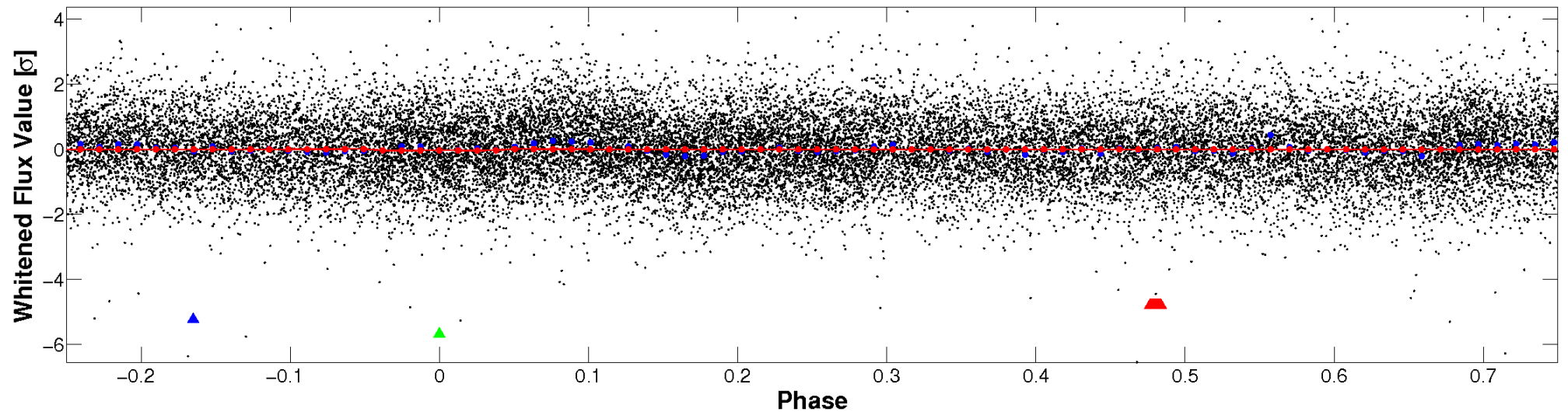


Non-Whitened Vs. Whitened Light Curve

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

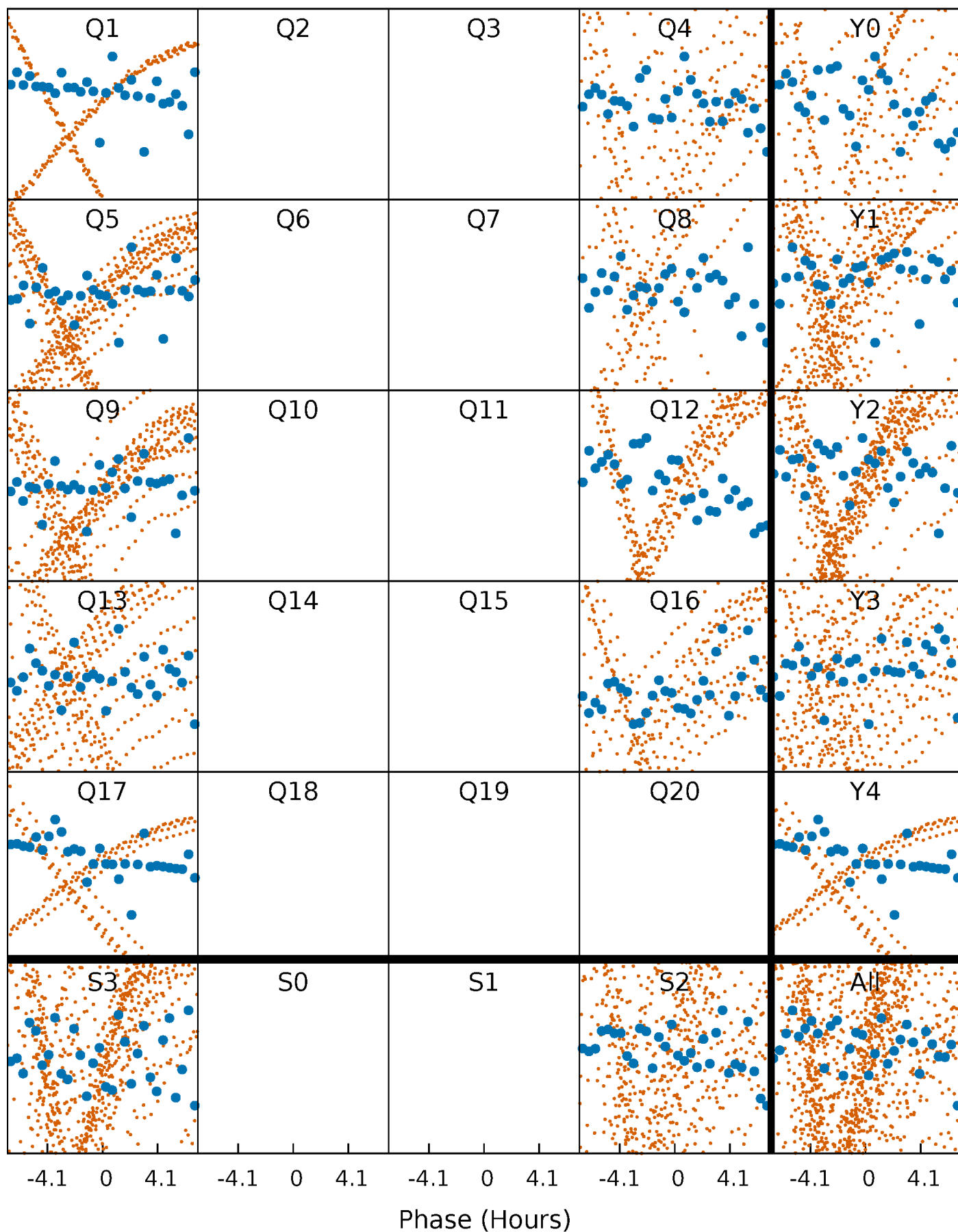


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



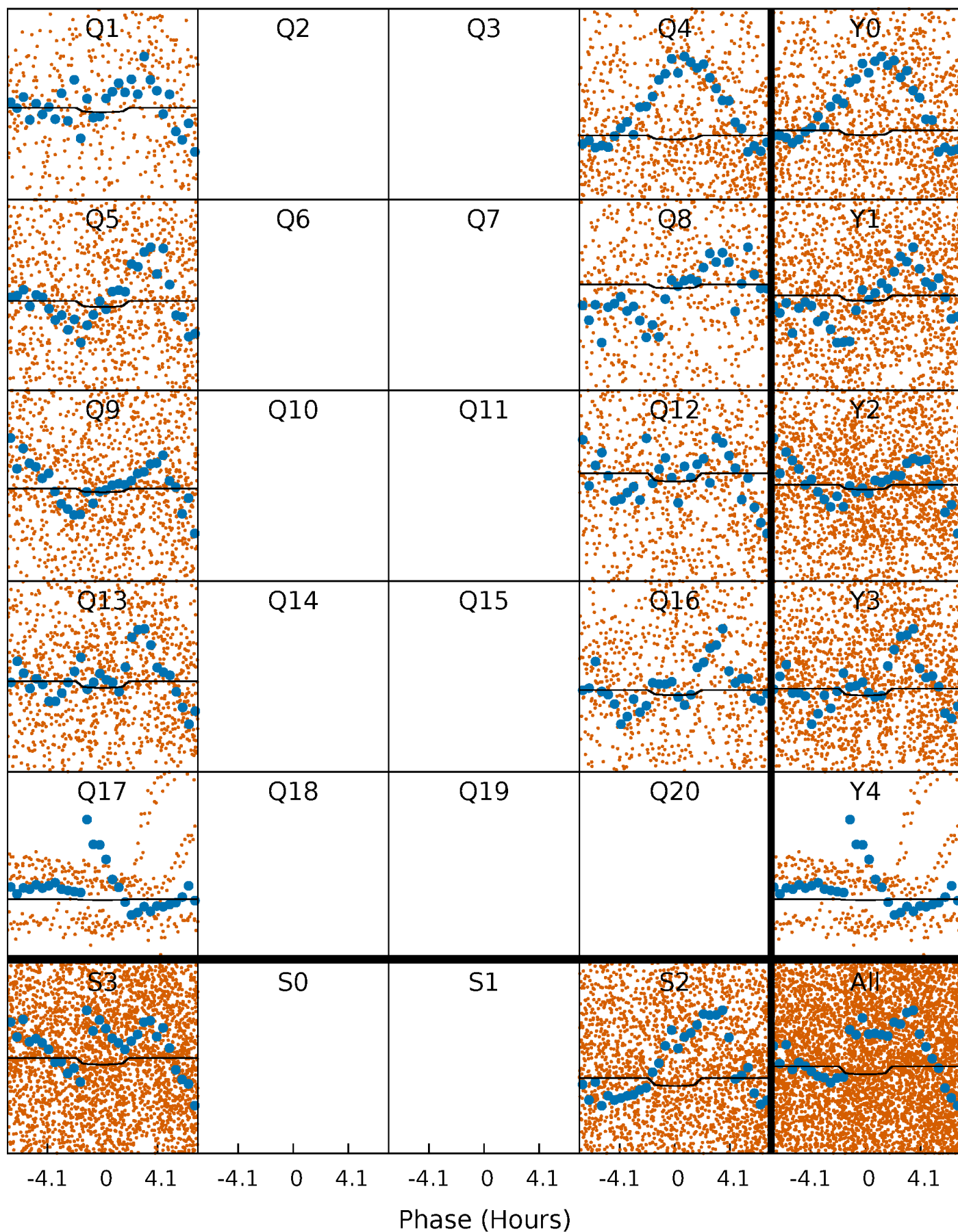
PDC Quarter-Phased Transit Curves

TCE 010925227-03 P= 1.613031 Days $T_0=131.923059$ (BKJD)



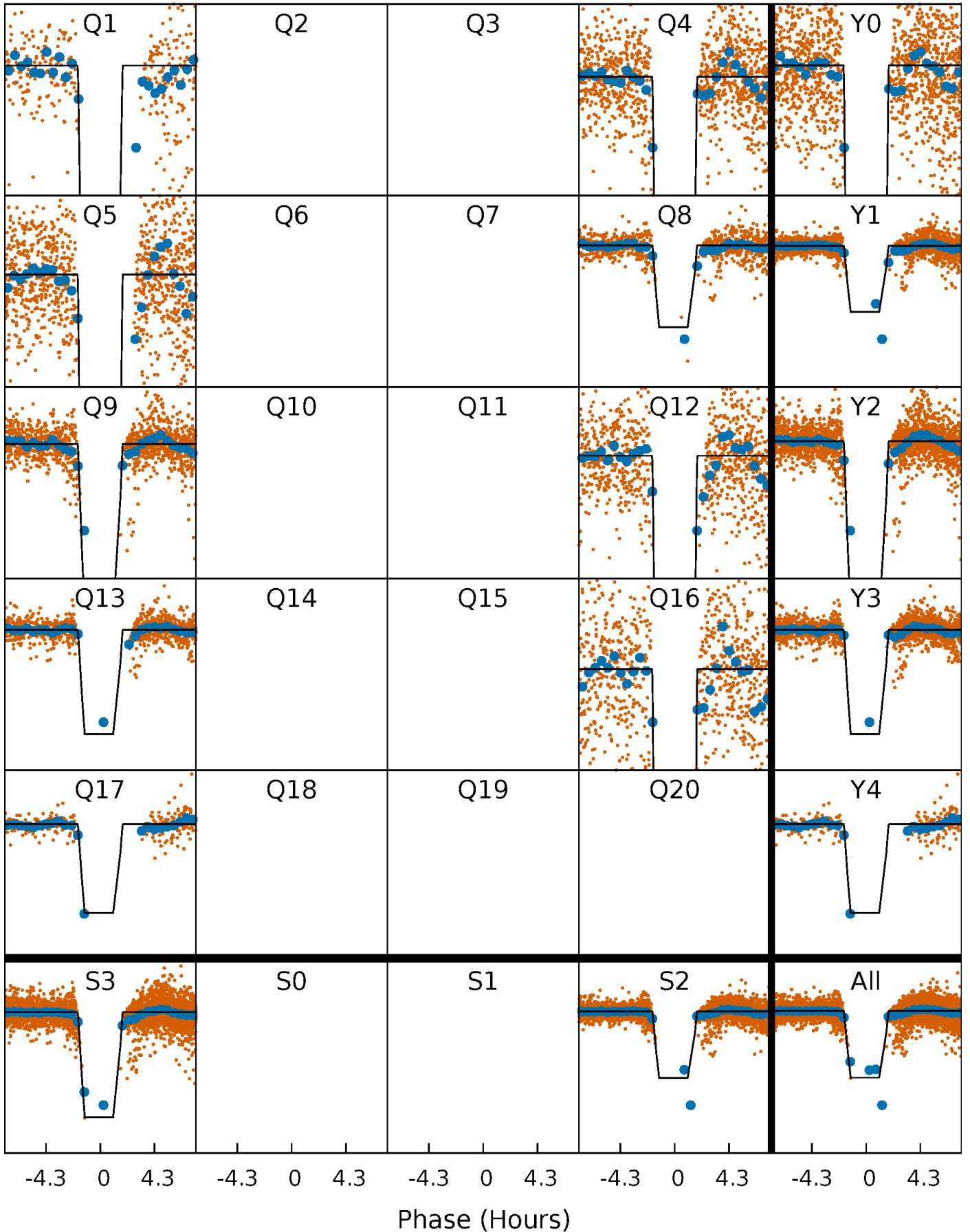
DV Quarter-Phased Transit Curves

TCE 010925227-03 $P = 1.613031$ Days $T_0 = 131.923059$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

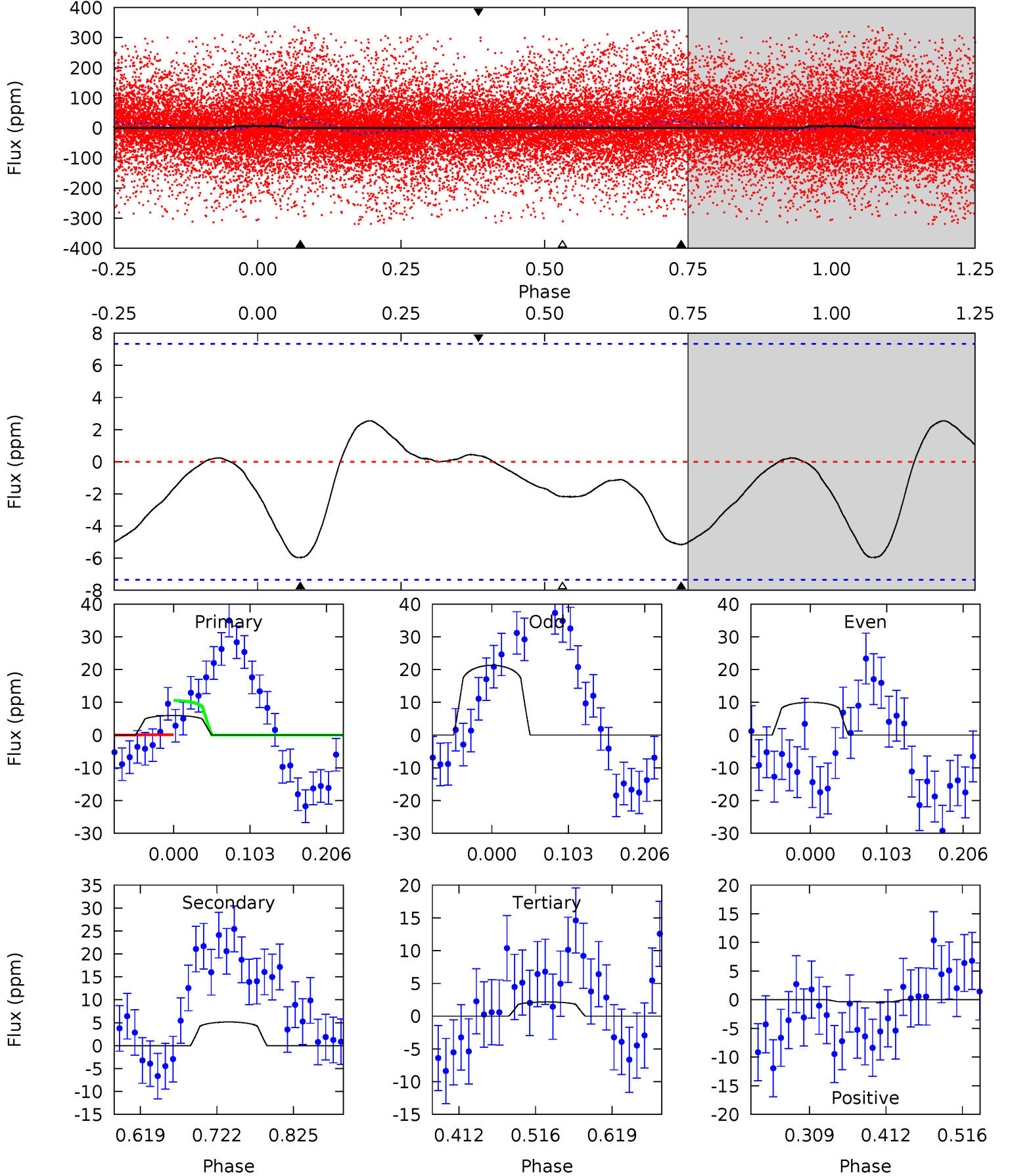
TCE 010925227-03 P= 1.613044 Days $T_0=131.898221$ (BKJD)



DV Model-Shift Uniqueness Test

010925227-03, P = 1.613031 Days, E = 130.310028 Days

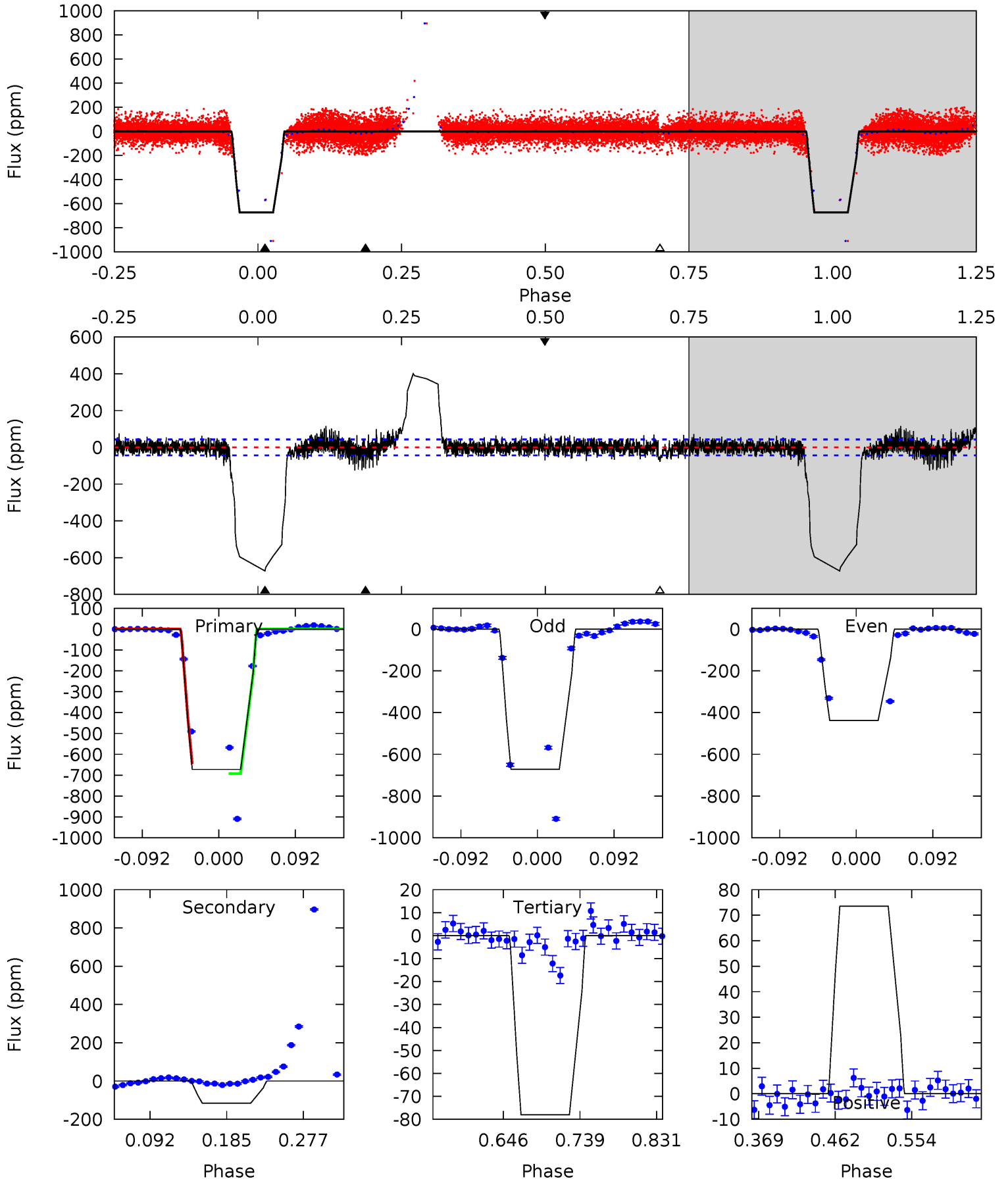
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.70	3.20	1.35	0.23	4.56	1.63	0.80	2.35	3.46	1.85	2.96	3.44	12.4	0.30	3.20



Alt Model-Shift Uniqueness Test

010925227-03, P = 1.613044 Days, E = 131.898221 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
70.7	12.2	8.20	7.73	4.58	1.68	2.27	62.5	63.0	3.98	4.46	12.4	1.00	0.37	1.72



Stellar Parameters For KIC 010925227

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	8633^{+383}_{-623}	$4.117^{+0.033}_{-0.297}$	$0.560^{+0.050}_{-0.200}$	$2.163^{+1.156}_{-0.136}$	$2.235^{+0.432}_{-0.216}$	$0.311^{+0.042}_{-0.213}$
	+4%/-7%	+1%/-7%	+9%/-36%	+53%/-6%	+19%/-10%	+14%/-69%
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 010925227-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-5 ± 2	$0.55^{+0.24}_{-0.22}$	4317^{+470}_{-363}	8697^{+4550}_{-1825}	11^{+22}_{-6}
Alt.	-116 ± 10	$6.25^{+1.69}_{-0.53}$	4301^{+491}_{-321}	5172^{+227}_{-273}	$1.946^{+0.400}_{-0.668}$

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 $A_{obs} \gg 1.0$

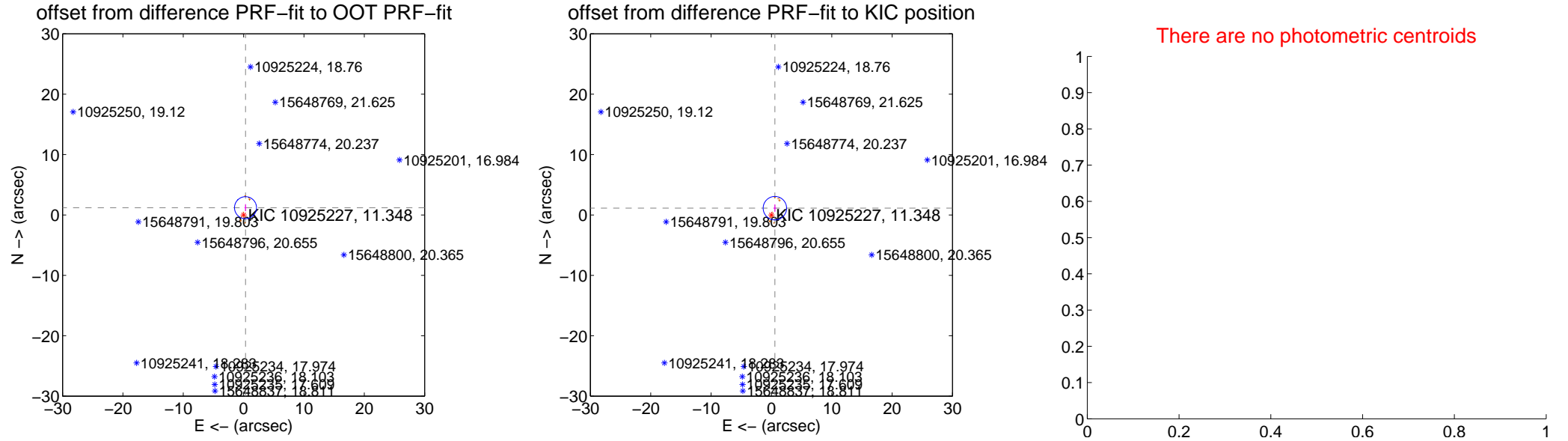
DV Centroid Data

Supplemental centroid analysis for 010925227-03. **Kepler magnitude: 11.35.** Transit SNR 1.80

There are 0 quarters with good PRF difference image offsets

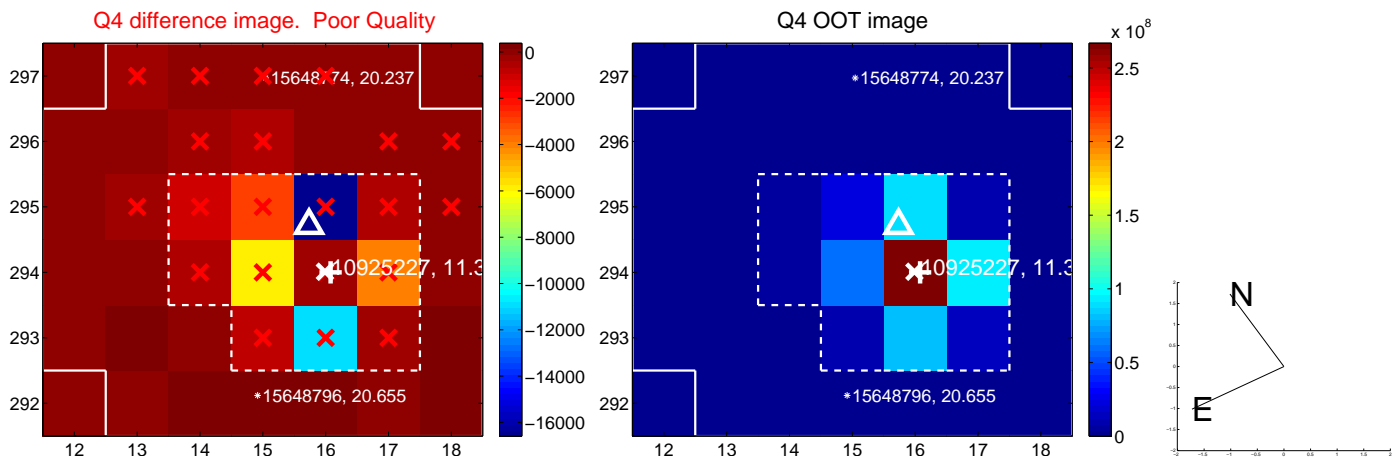
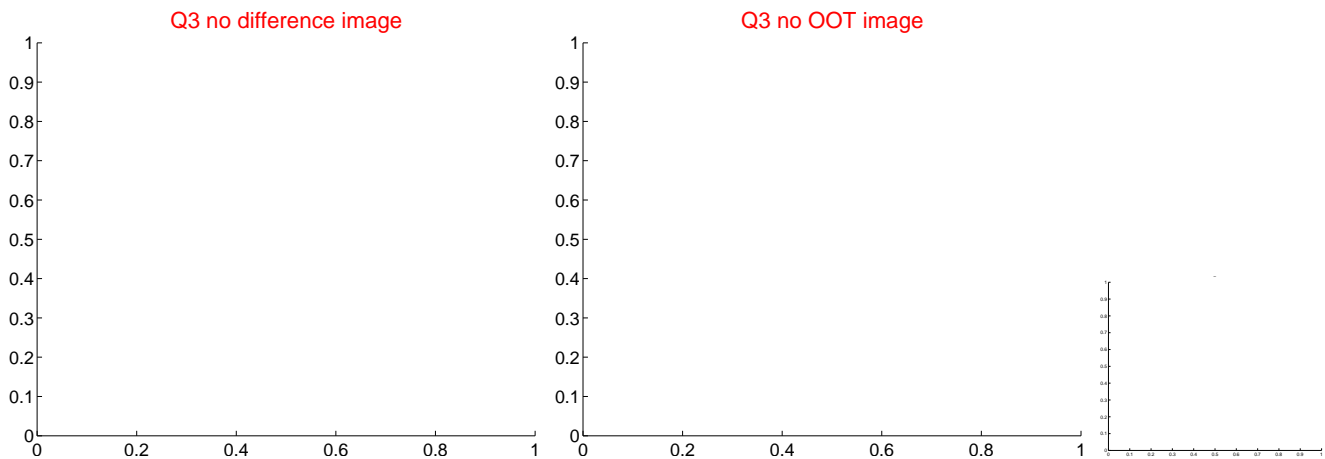
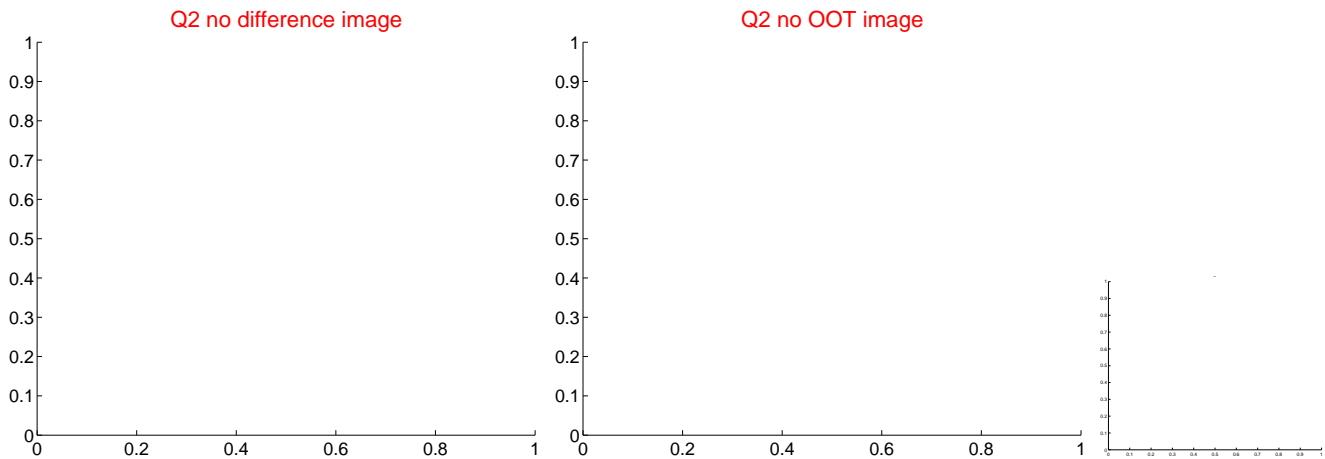
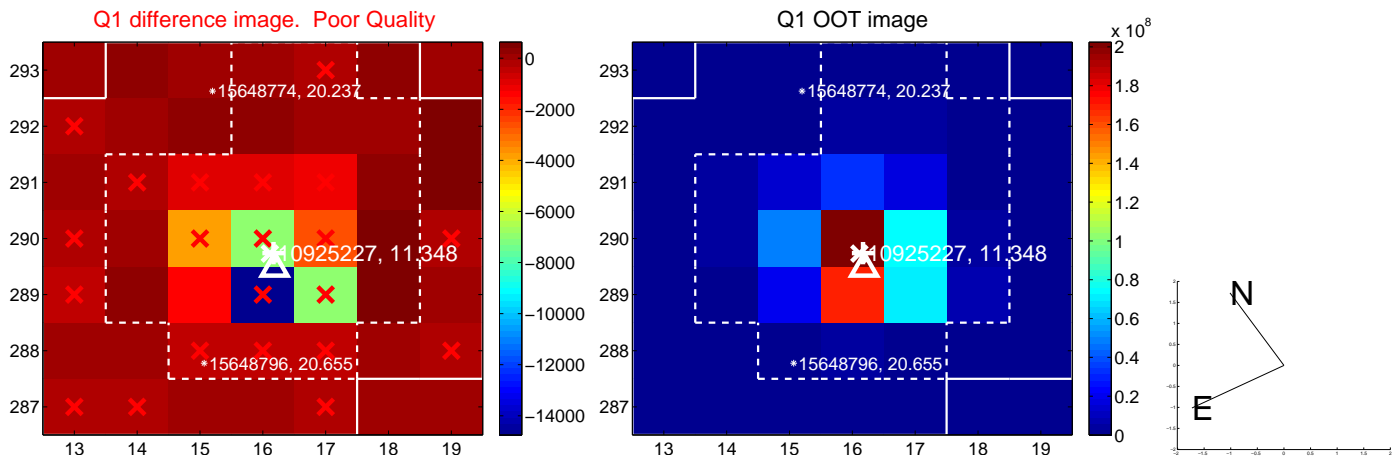
The direct PRF centroid is offset from the target star catalog position by about 0.19 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.244 ± 0.608	2.05	-0.316 ± 0.184	1.203 ± 0.593
PRF-fit source offset from KIC position	1.262 ± 0.647	1.95	-0.573 ± 0.230	1.125 ± 0.626
photometric centroid source offset	—	—	—	—

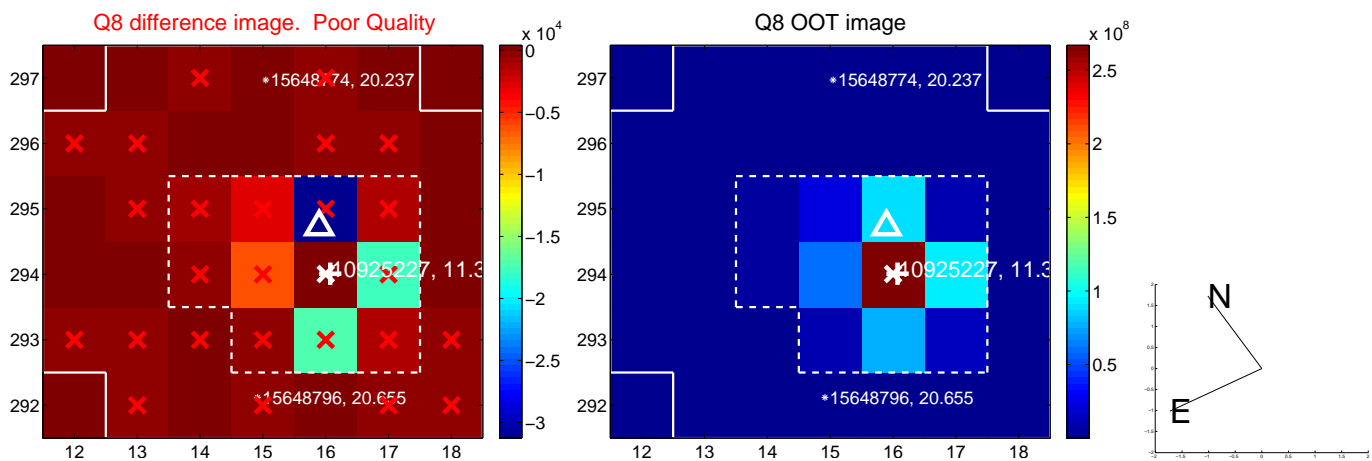
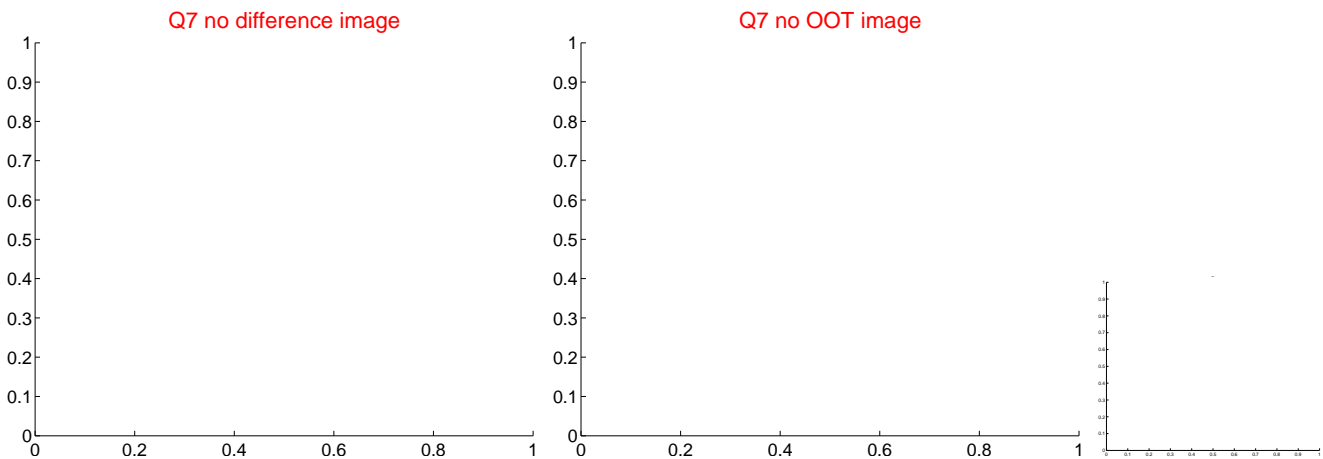
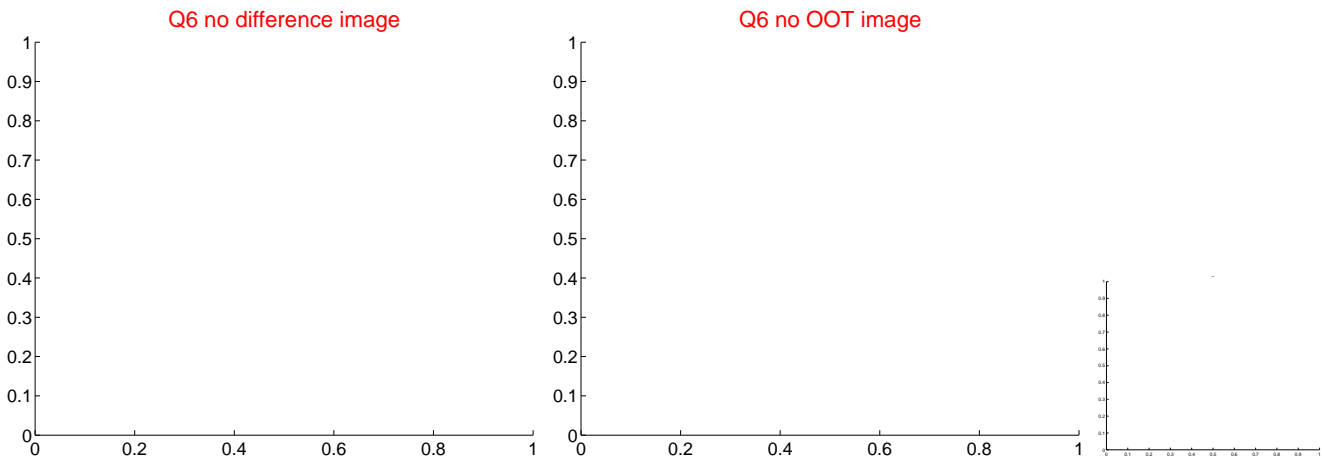
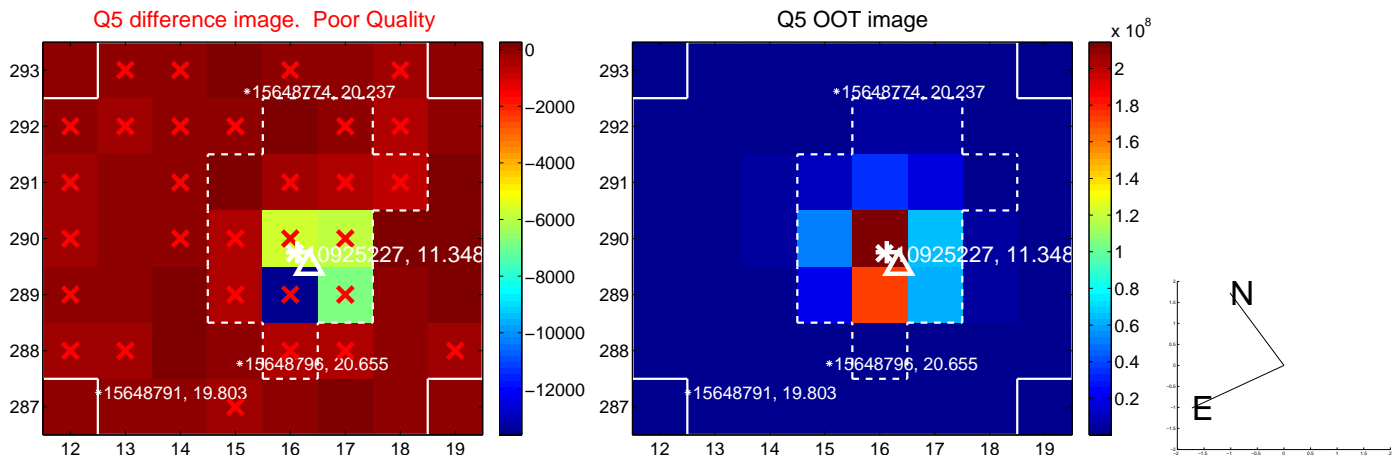


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

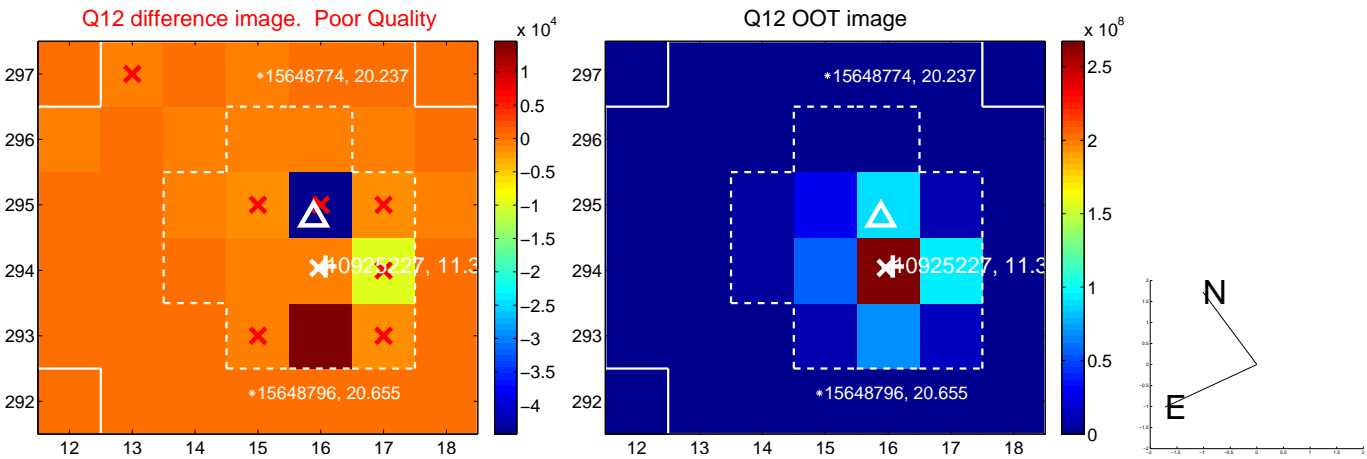
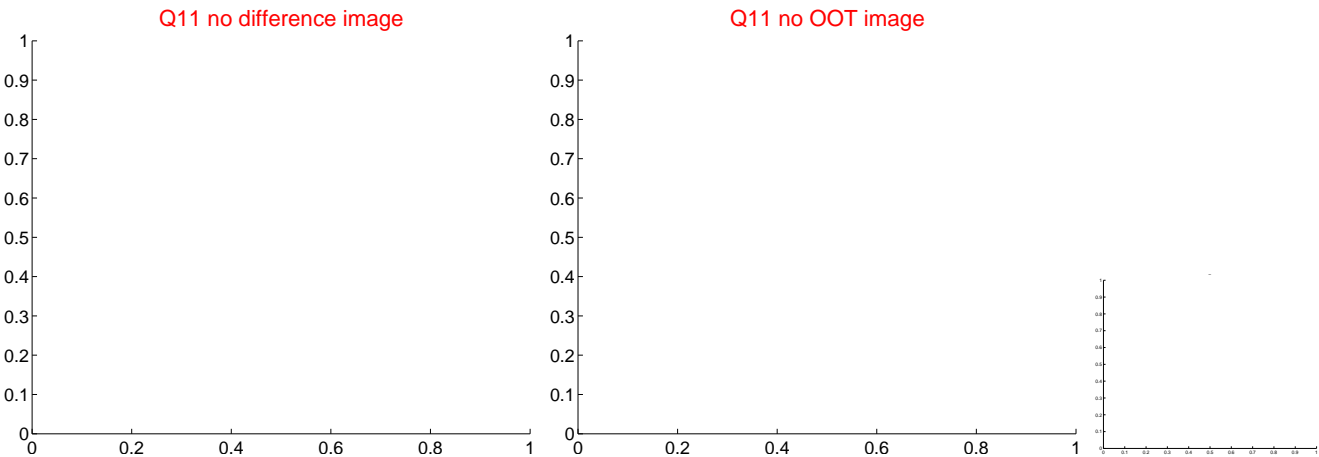
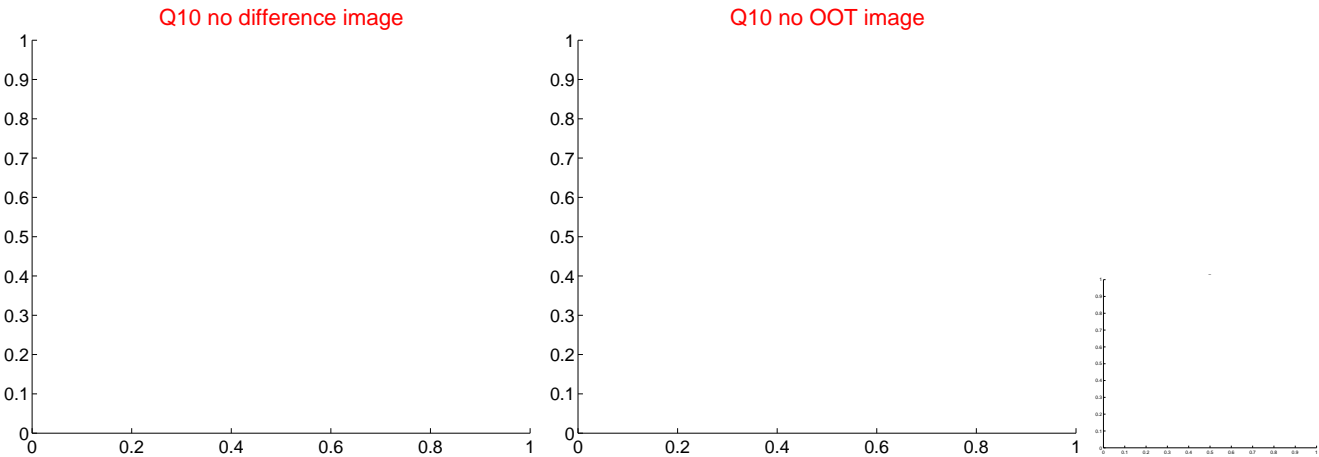
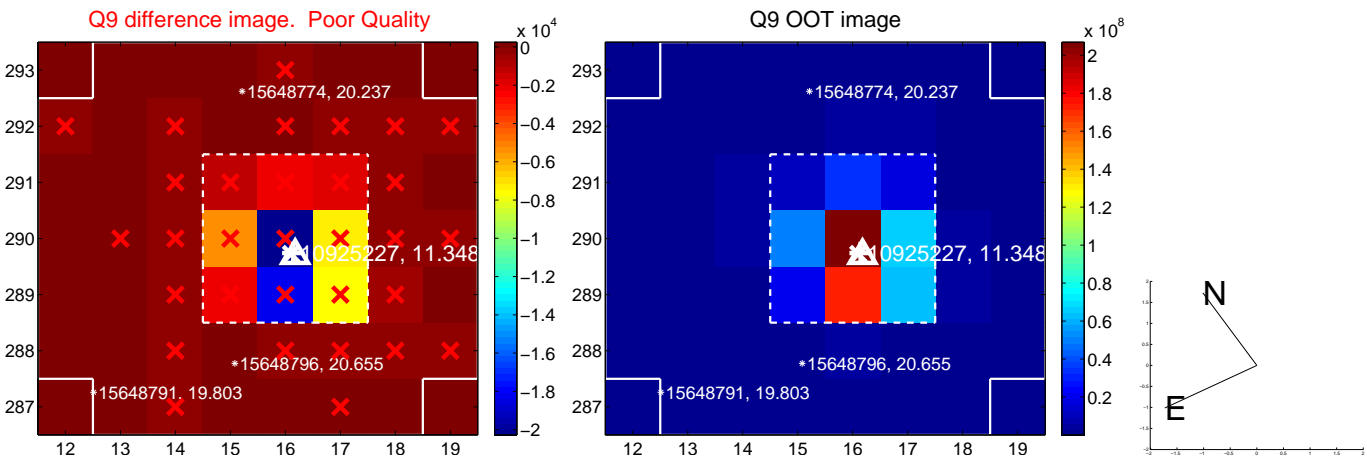
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



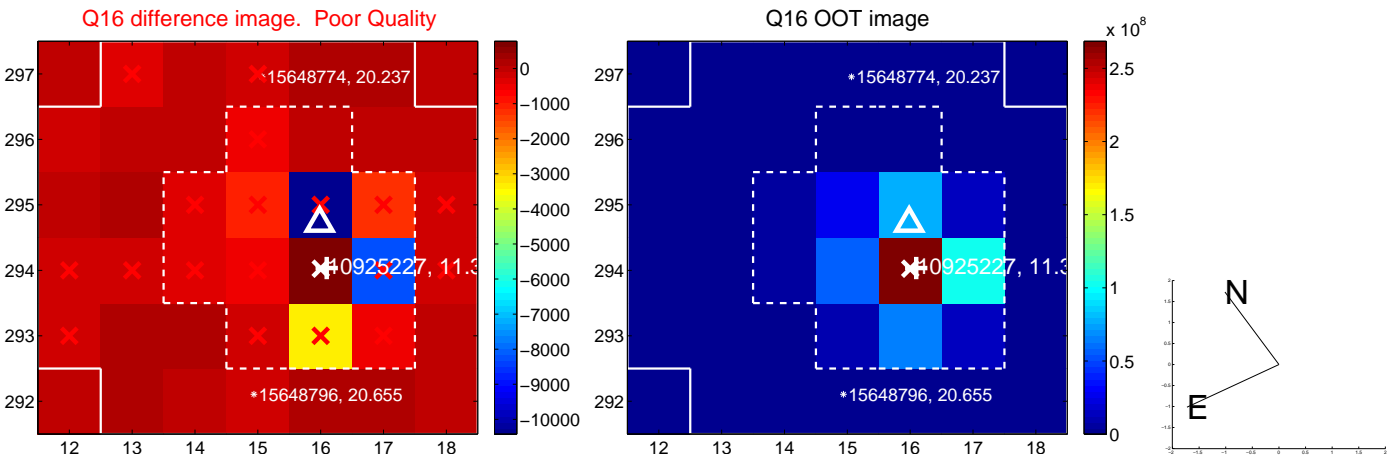
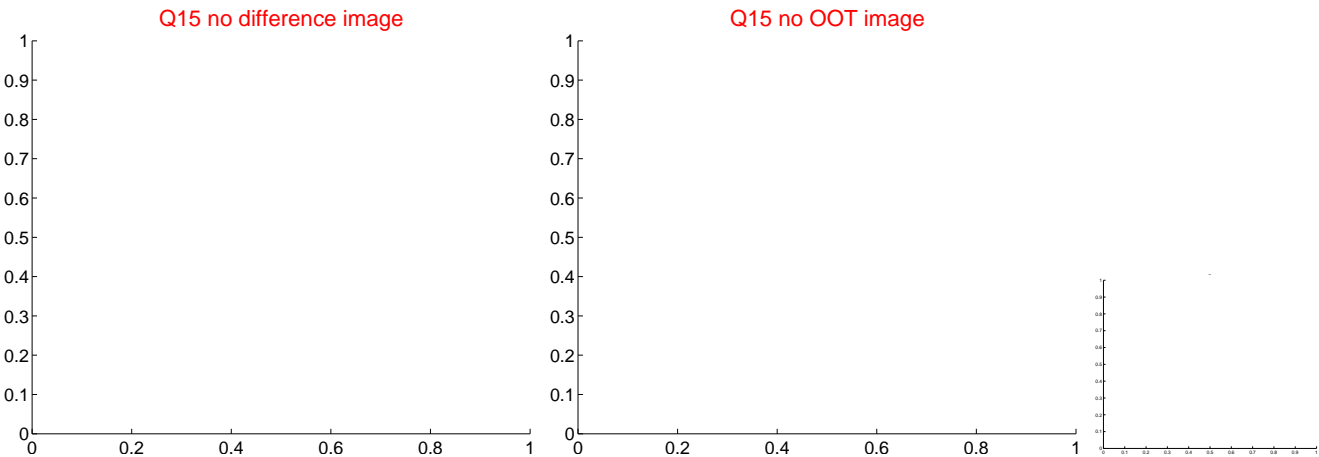
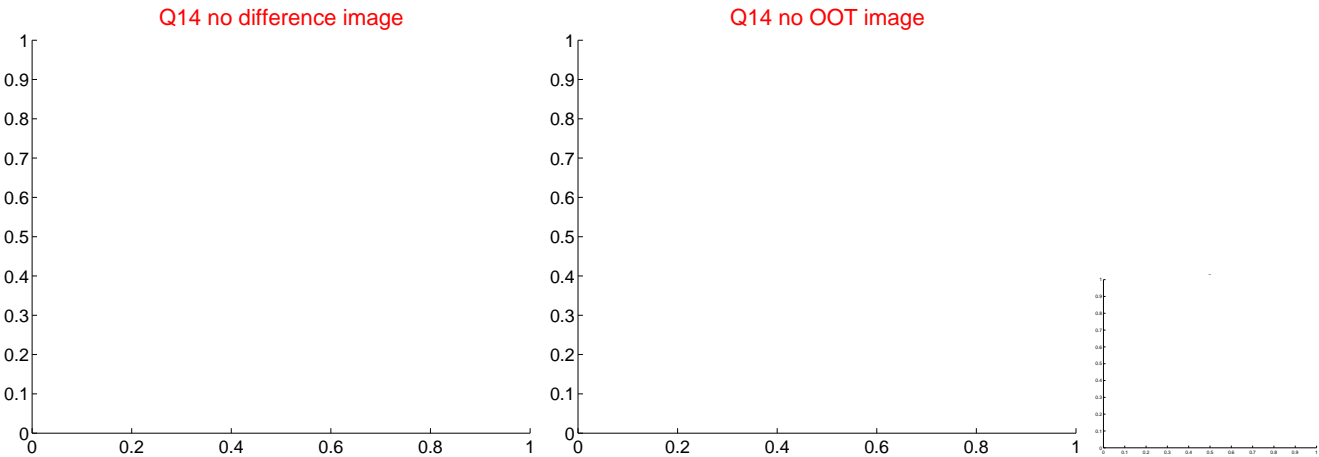
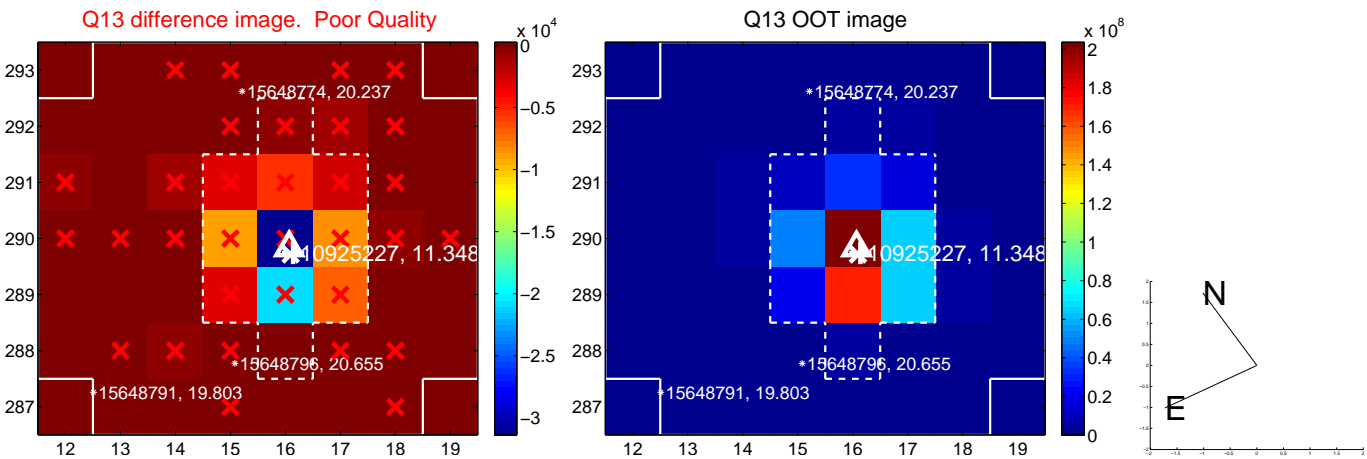
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



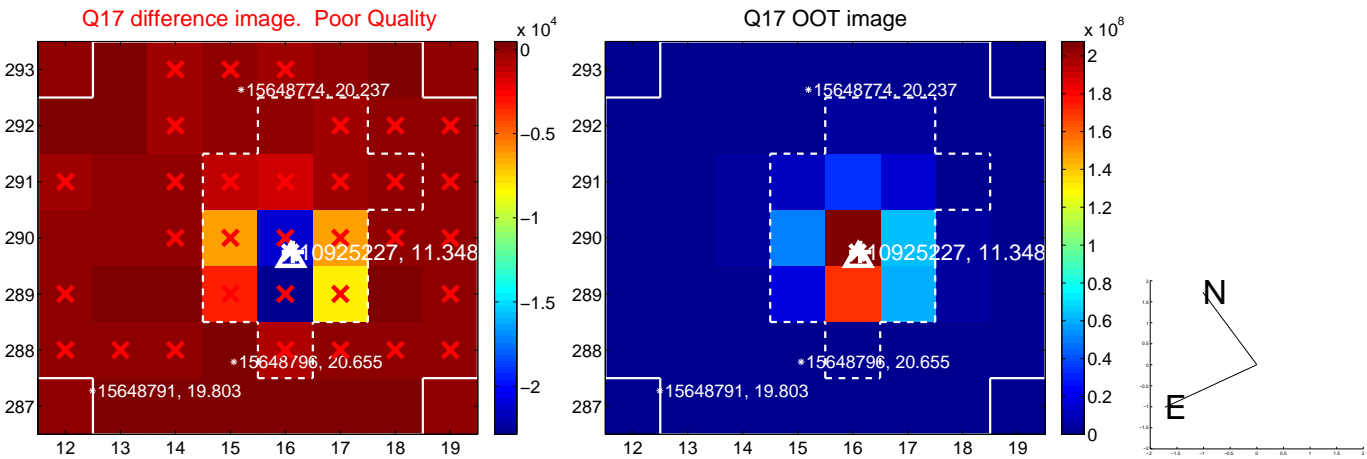
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

Declination

