

KIC 007115925

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})
007115925-01	OBS	4258.01	0.566768	131.837309	7.9	3.963	13.4	9.0	1.69	6287	0.51	19644.11
007115925-02	OBS	No	16.321569	132.814450	226.3	0.680	11.2	10.7	1.69	6287	2.60	222.55
007115925-03	OBS	No	32.844297	164.004936	169.4	1.485	12.9	10.3	1.69	6287	2.46	87.60
007115925-04	OBS	No	35.096107	161.770551	205.6	1.013	10.1	10.5	1.69	6287	2.74	80.19
007115925-05	OBS	No	33.916479	142.603613	144.5	1.890	10.8	10.1	1.69	6287	2.26	83.92
007115925-06	OBS	No	49.920369	162.170442	189.6	1.481	10.9	11.4	1.69	6287	2.36	50.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007115925-01	OBS	FP	0.00	1	0	0	1	LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007115925-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
007115925-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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.

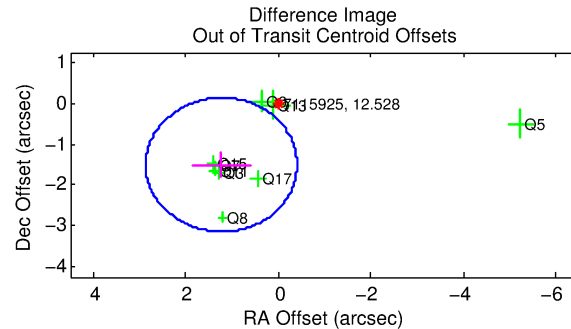
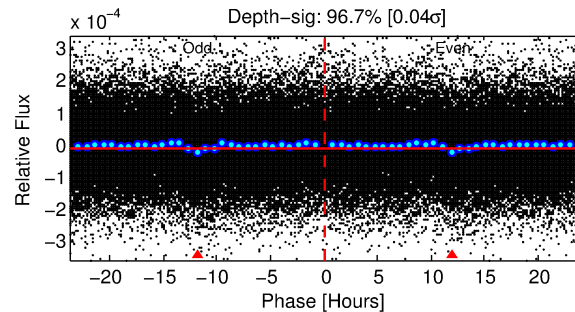
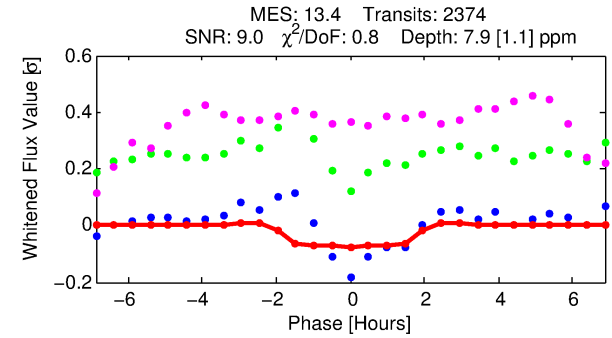
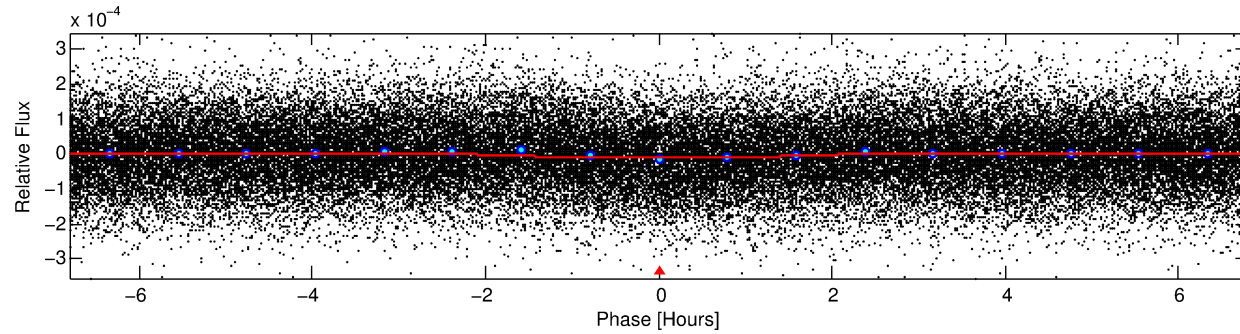
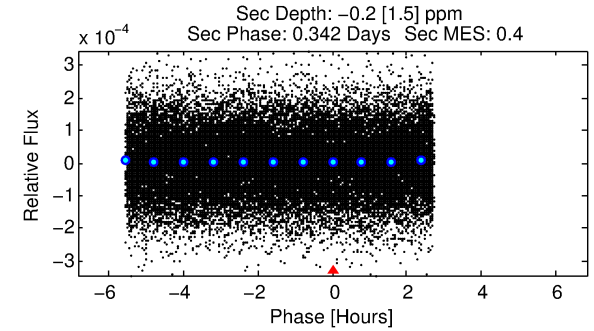
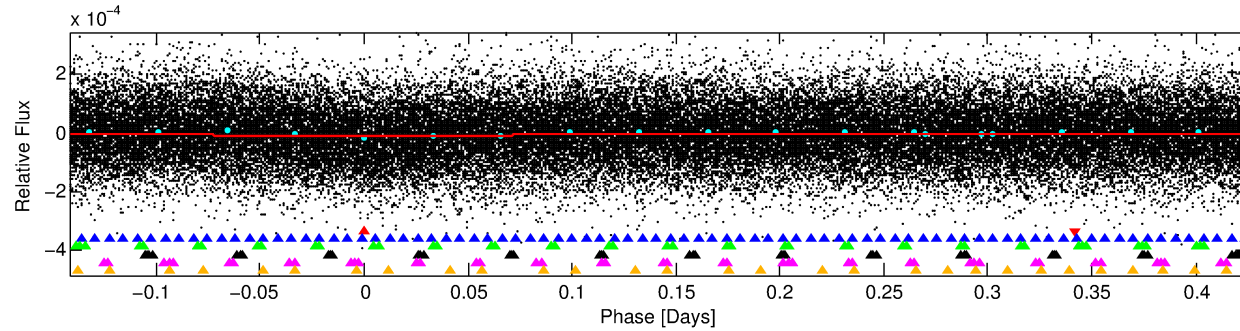
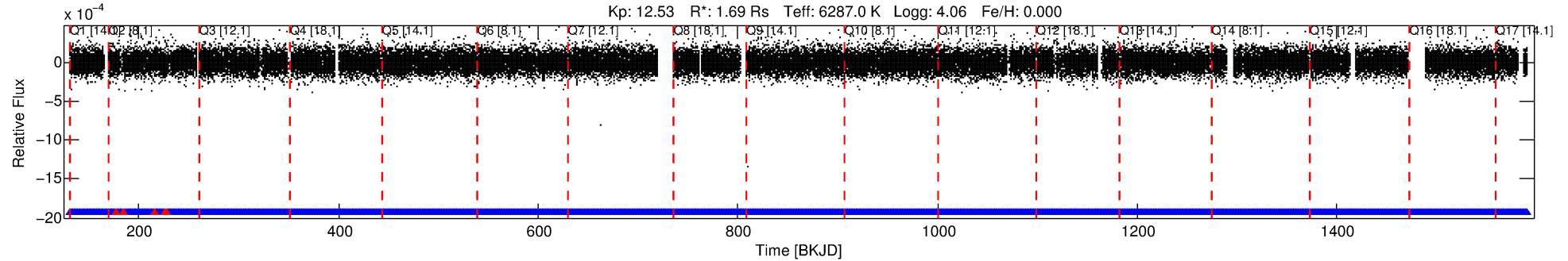
Ephemeris Match Information For 007115925-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (μ)	Δ Row	Δ Col	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ_P	σ_T
007115925-01	7115925	RR-Lyr-pri	7198959	1:1	700.2	66	-164	7.86	12.53	77912.00	Direct-PRF	0	4.08	24.41

Notes: P₁:P₂ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m₂ and m₁ are the magnitudes of the parent and child. D₂/D₁ is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 7115925 Candidate: 1 of 6 Period: 0.567 d
KOI: K04258.01 Corr: 0.786



DV Fit Results:

Period = 0.56677 [0.00001] d
Epoch = 131.8373 [0.0047] BKJD
Rp/R* = 0.0028 [0.0013]
a/R* = 1.14 [0.64]
b = 0.71 [1.72]
Seff = 19644.11 [8083.46]
Teq = 3019 [311] K
Rp = 0.51 [0.27] Re
a = 0.0143 [0.0036] AU
Ag = N/A
Teffp = N/A

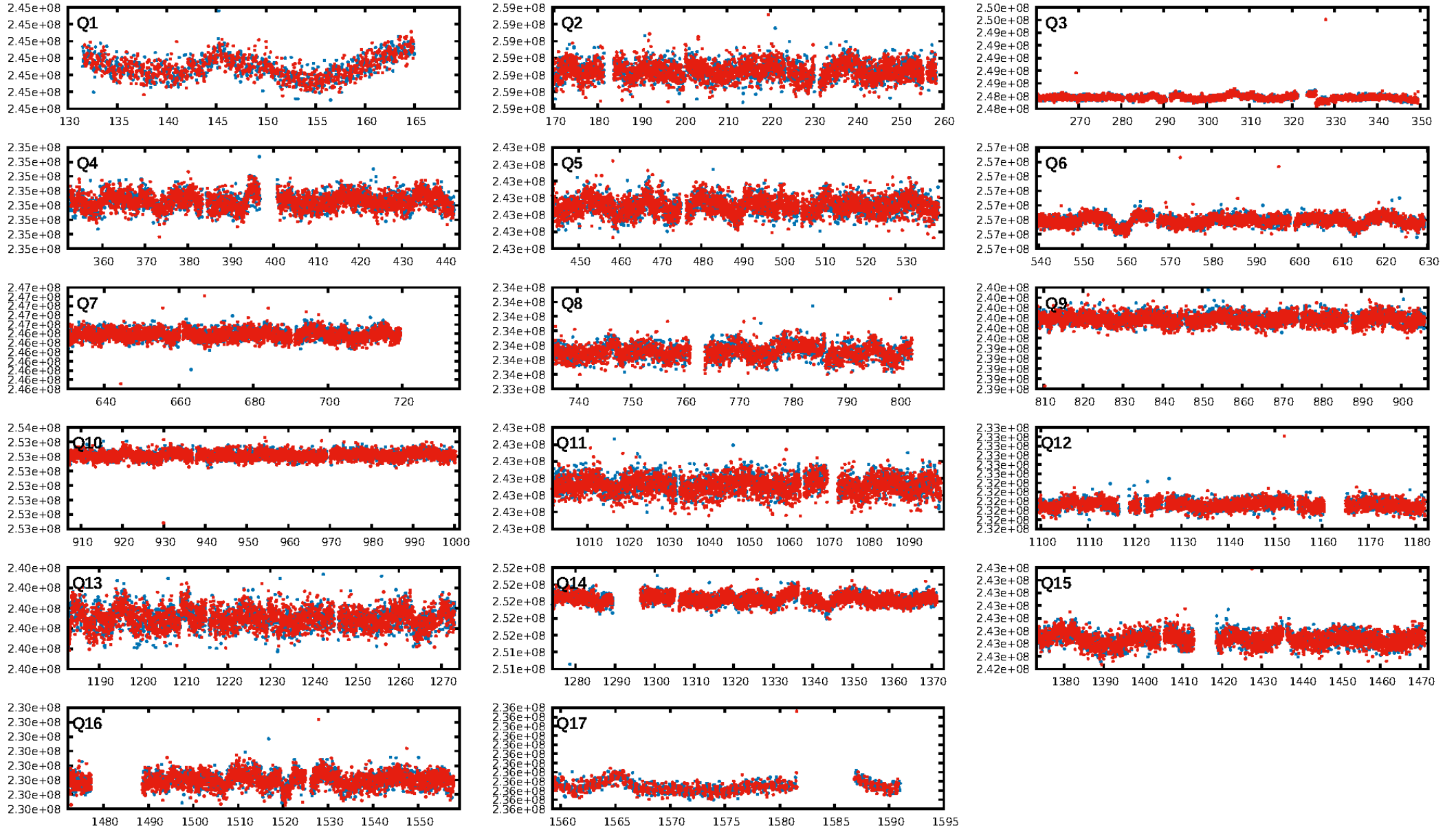
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [94.03σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 1.34e-22
RollingBand-fgt: 1.00 [2263/2268]
GhostDiagnostic-chr: 0.2889
Centroid-sig: 3.0%
Centroid-so: 1.471 arcsec [1.35σ]
OotOffset-rm: 1.943 arcsec [3.56σ]
OotOffset-st: 0/4/1/4 [9]
KicOffset-rm: 1.837 arcsec [2.87σ]
KicOffset-st: 0/4/1/4 [9]
DiffImageQuality-fgm: 0.78 [7/9]
DiffImageOverlap-fno: 1.00 [17/17]

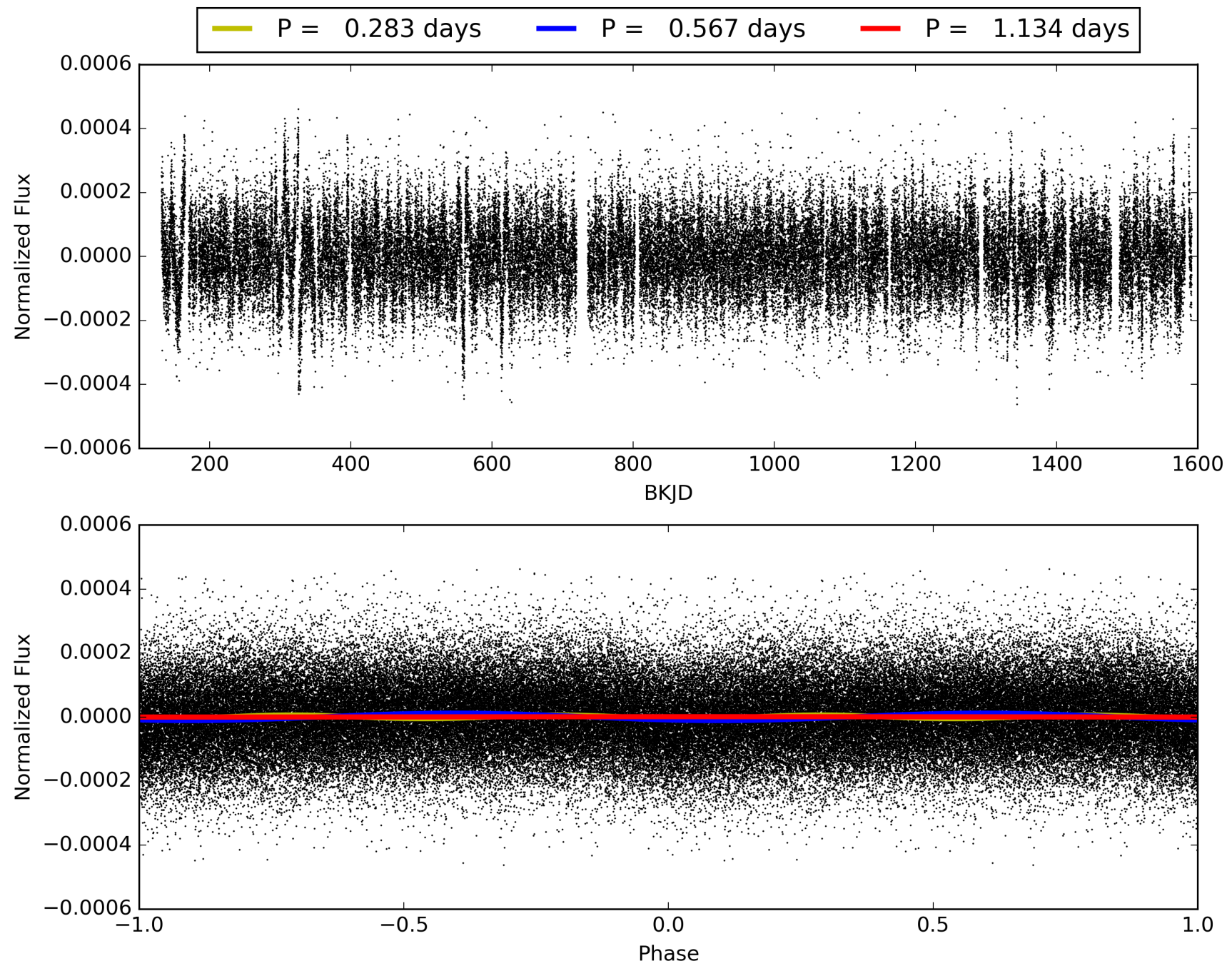
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 007115925-01, PDC Light Curves

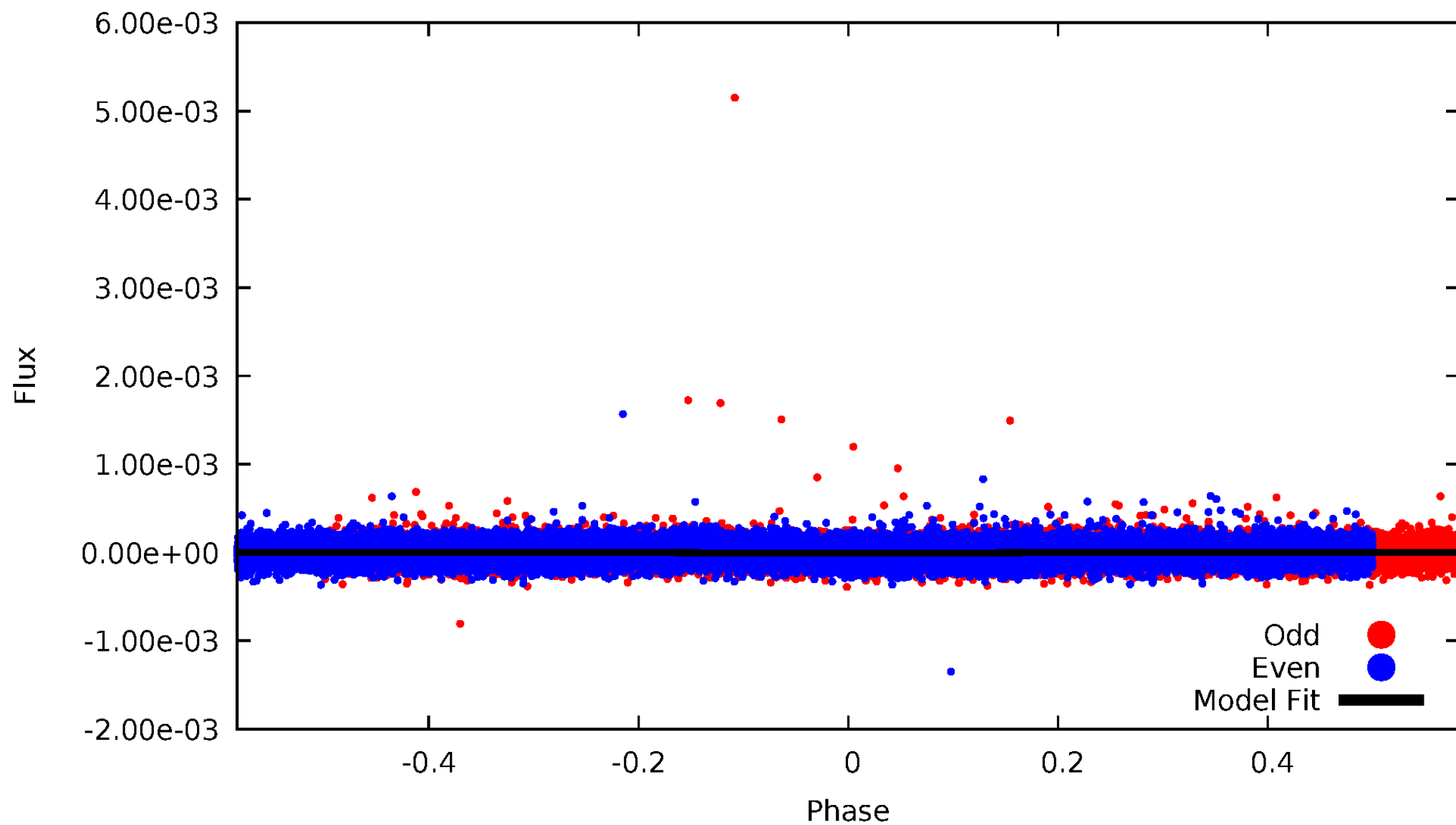


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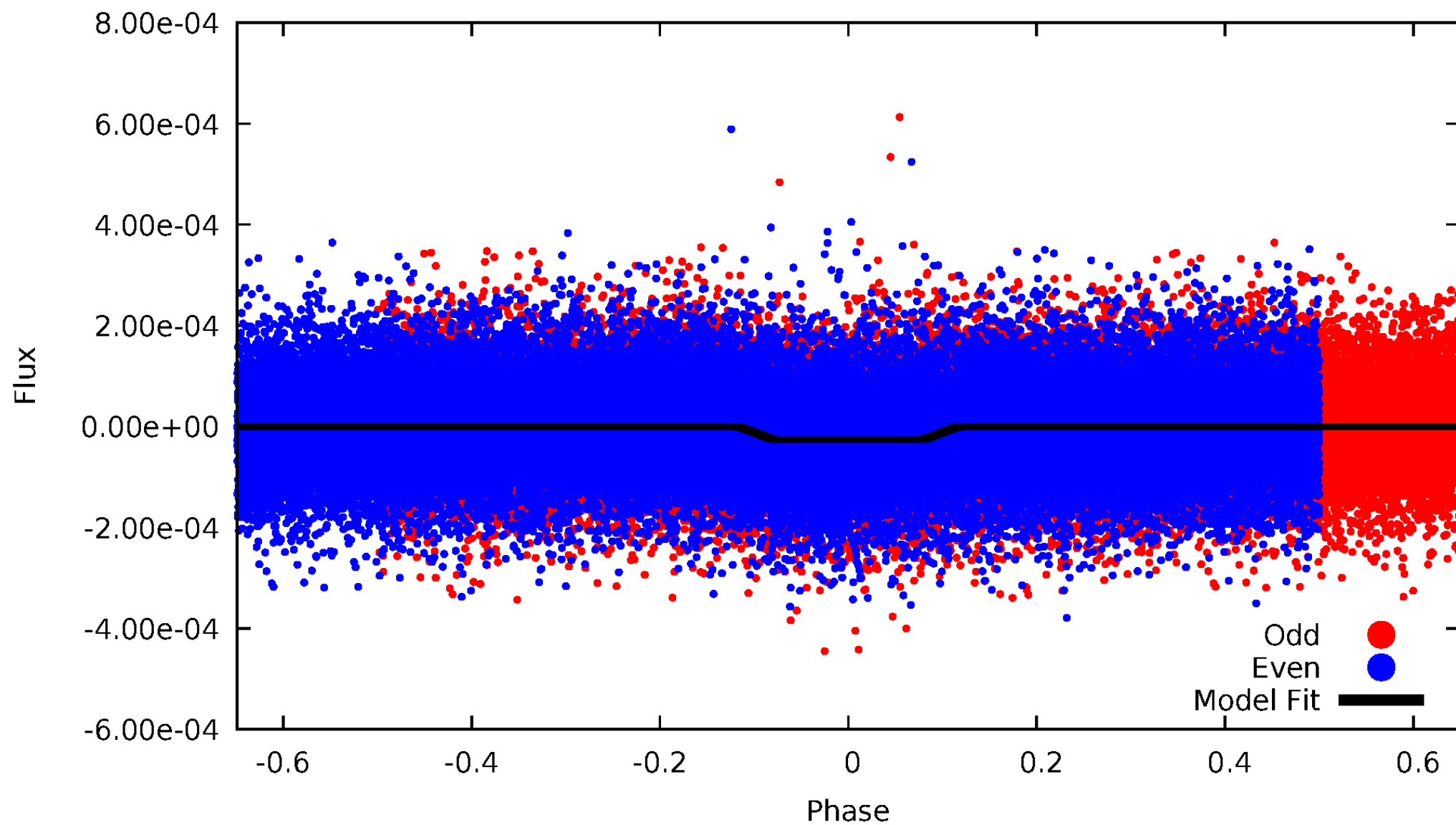
DV Odd/Even

TCE 007115925-01

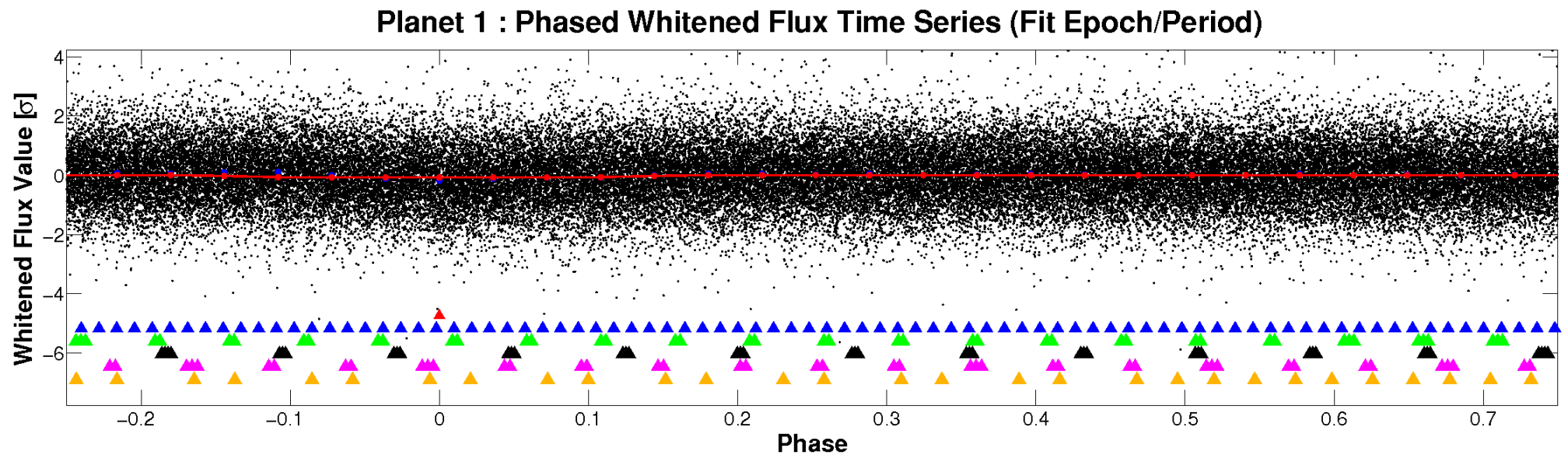
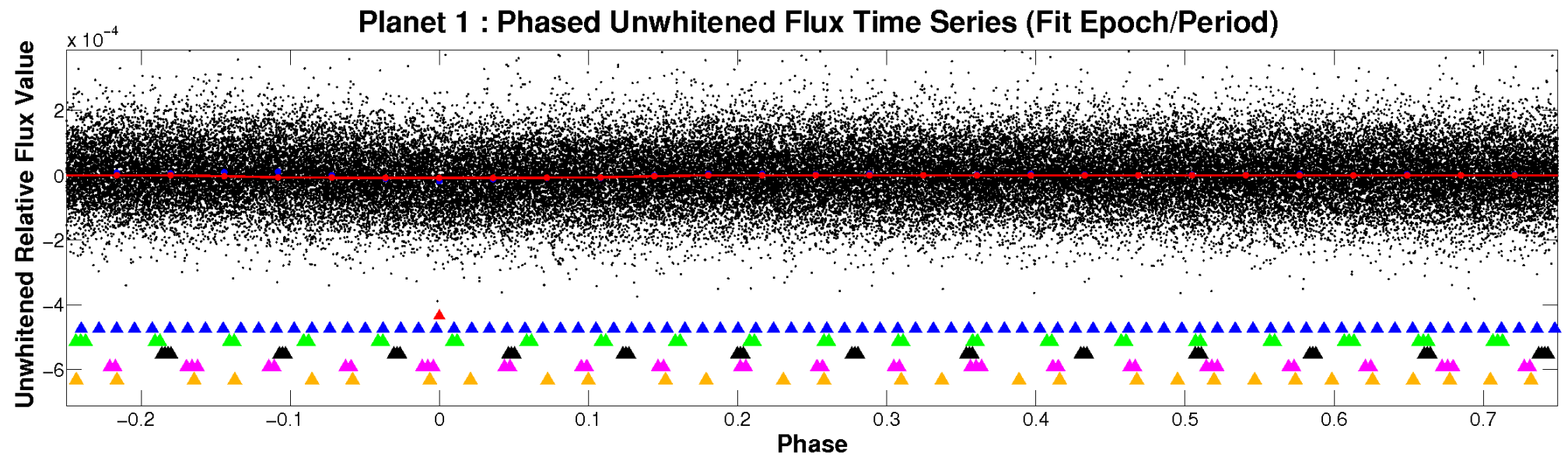


ALT Odd/Even

TCE 007115925-01

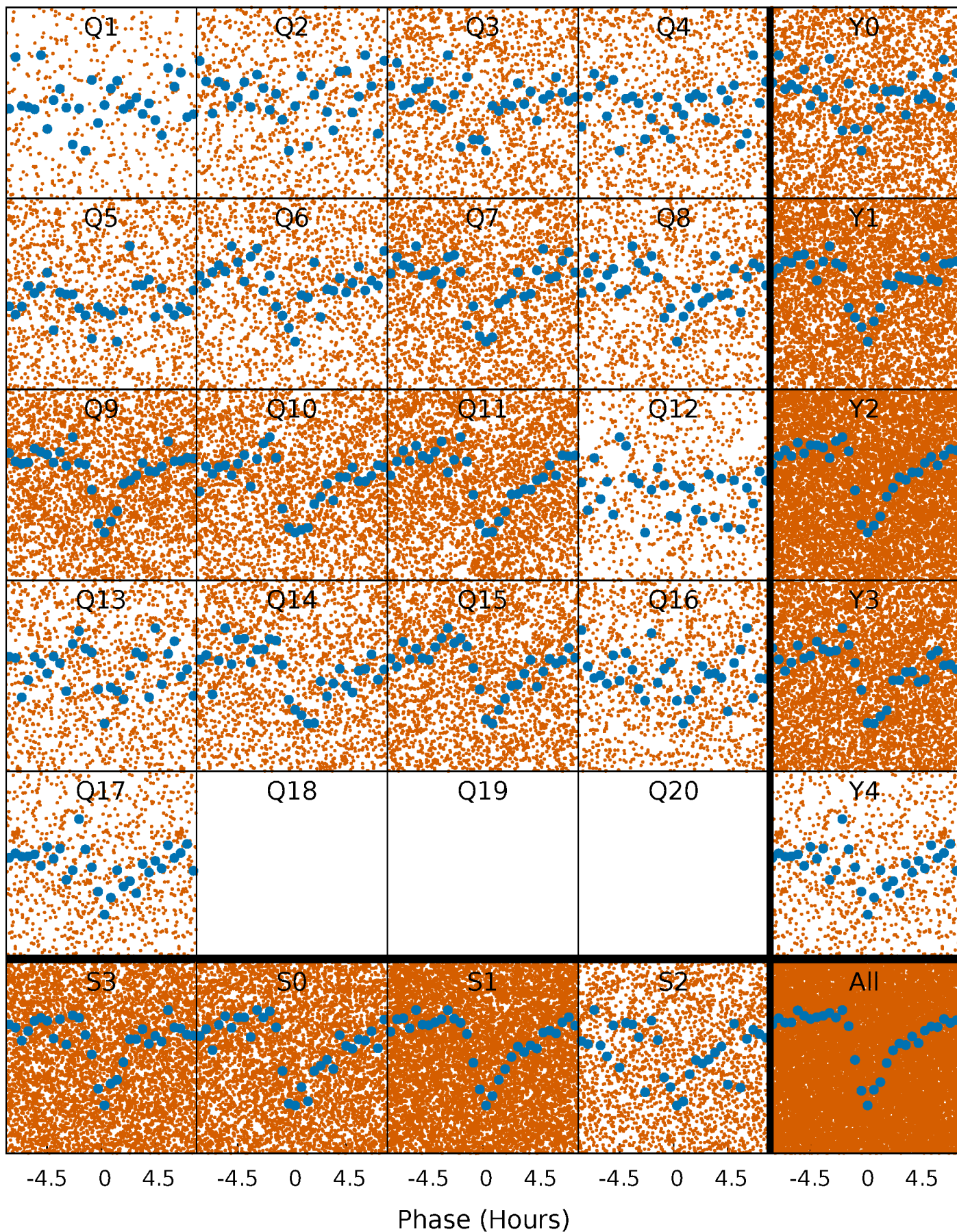


Non-Whitened Vs. Whitened Light Curve



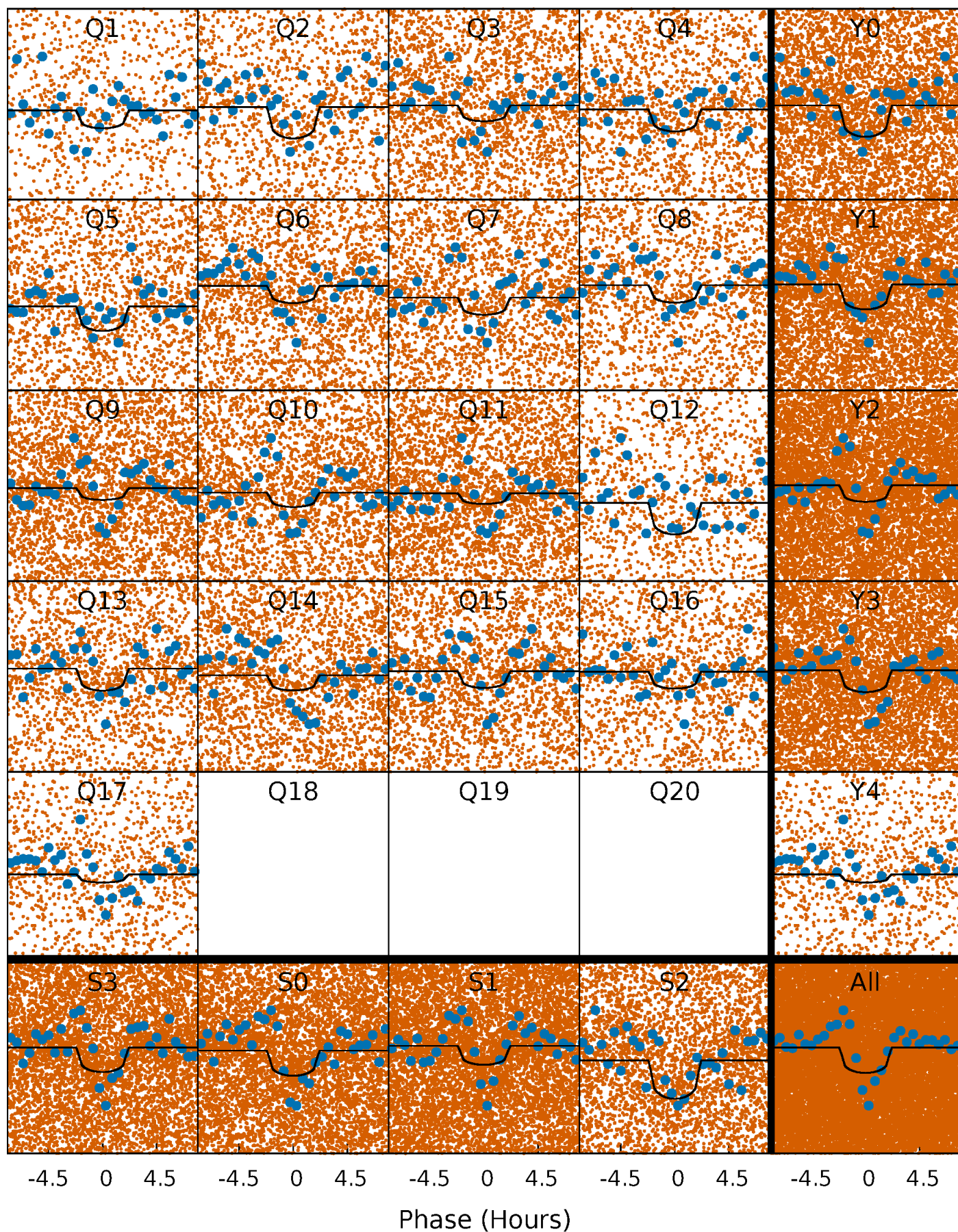
PDC Quarter-Phased Transit Curves

TCE 007115925-01 P= 0.566768 Days $T_0=131.837309$ (BKJD)



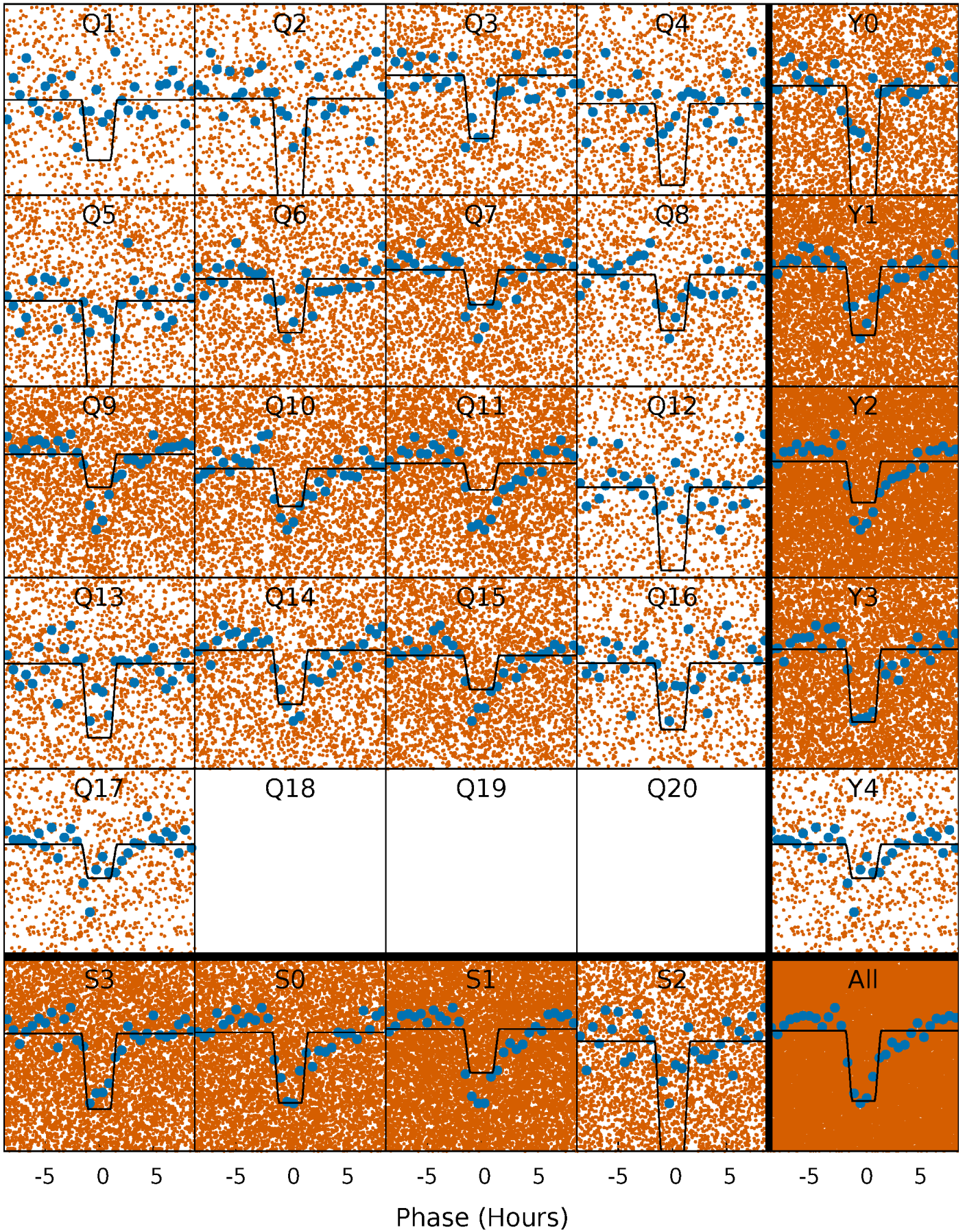
DV Quarter-Phased Transit Curves

TCE 007115925-01 P= 0.566768 Days $T_0=131.837309$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

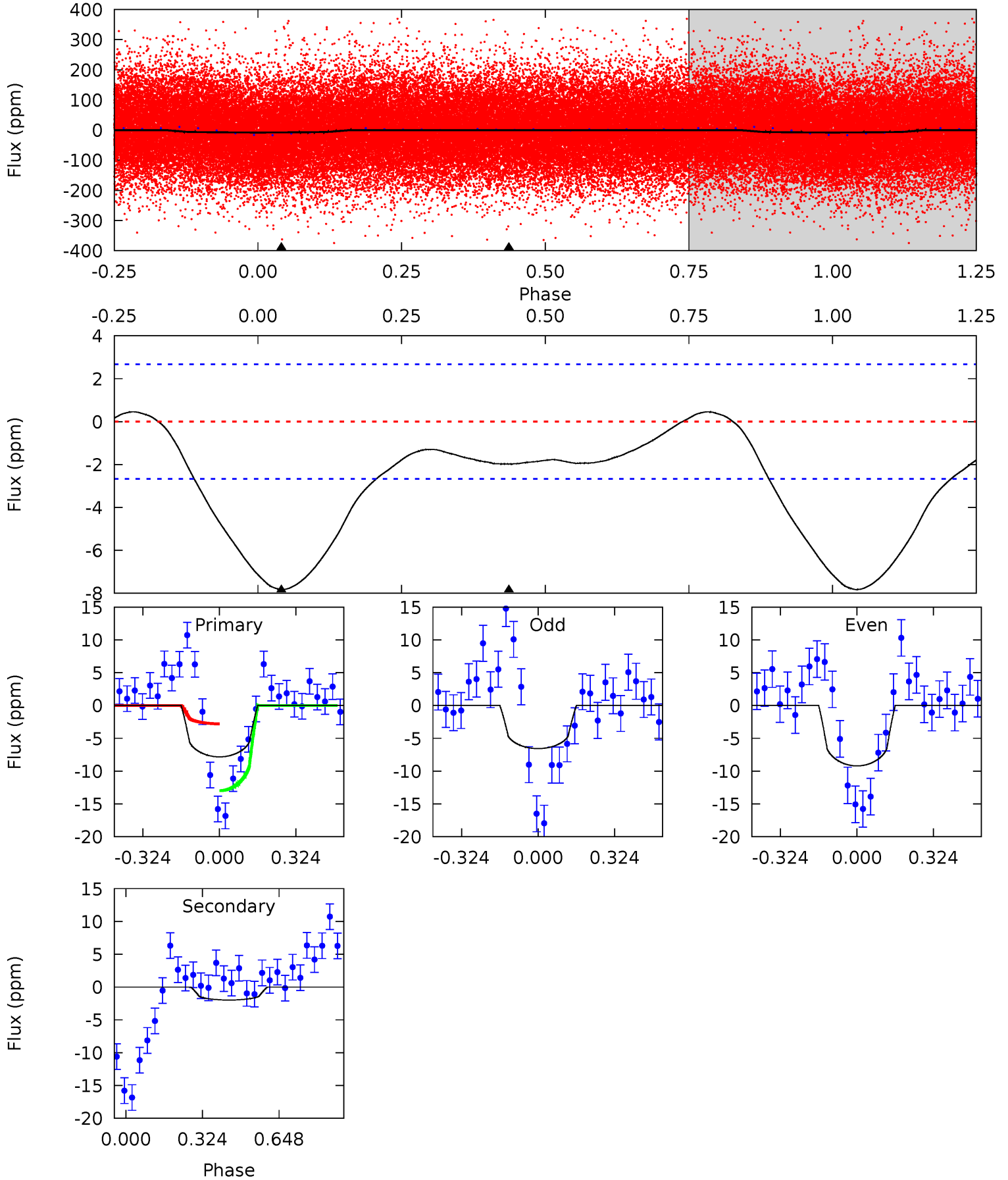
TCE 007115925-01 P= 0.566795 Days $T_0=131.820917$ (BKJD)



DV Model-Shift Uniqueness Test

007115925-01, P = 0.566768 Days, E = 131.270541 Days

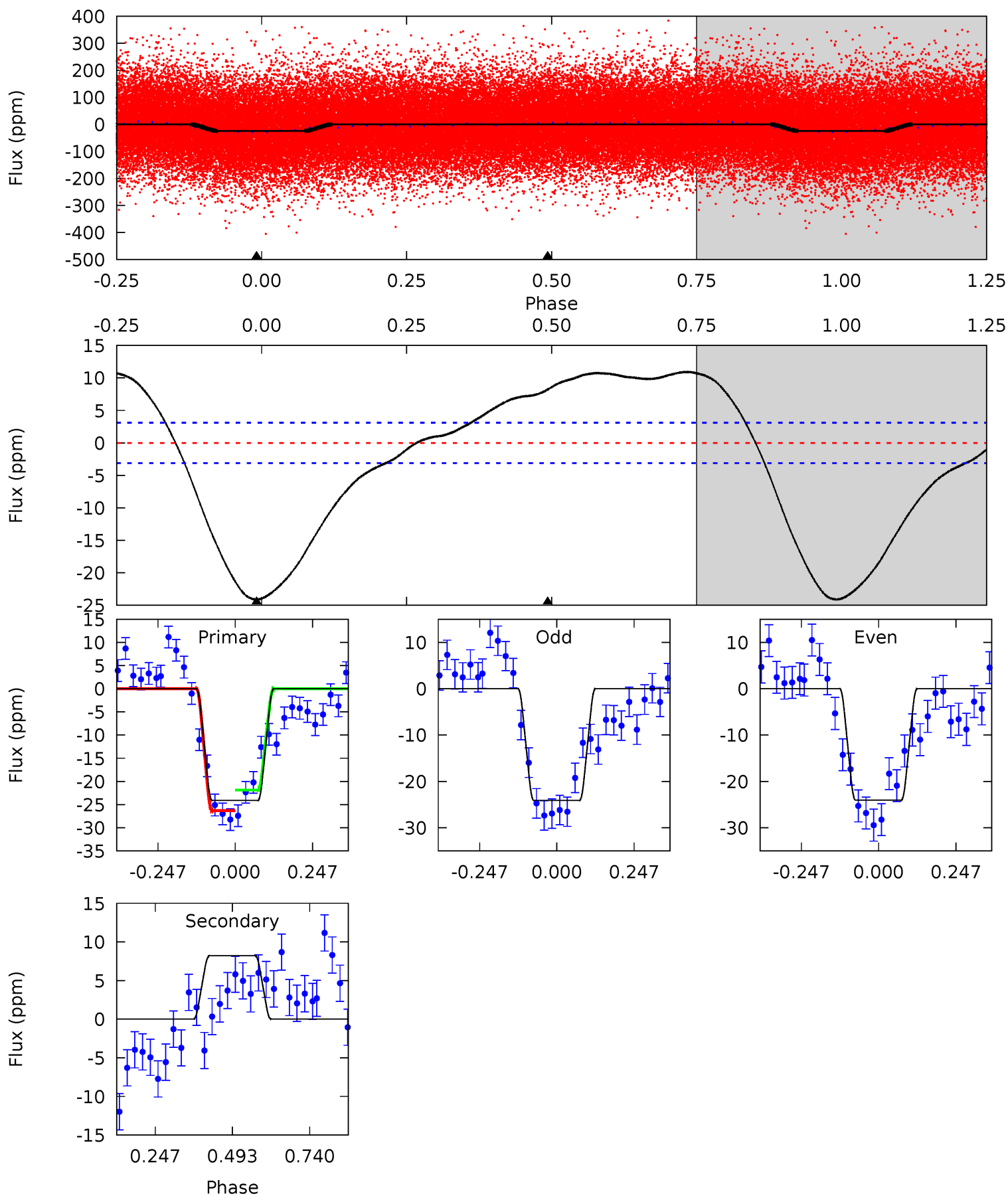
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.6	3.20	0	0	4.31	0.99	0.68	12.6	12.6	3.20	3.20	2.15	0.83	0.06	8.11



Alt Model-Shift Uniqueness Test

007115925-01, P = 0.566795 Days, E = 131.254122 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
33.8	-11.5	0	0	4.37	1.16	8.67	33.8	33.8	-11.5	-11.5	0.04	1.02	0.31	3.10



Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-01 / KOI 4258.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2 ± 1	$0.50^{+0.24}_{-0.23}$	4155^{+290}_{-322}	4191^{+1598}_{-1223}	$0.861^{+2.106}_{-0.499}$
Alt.	8 ± 1	$0.89^{+0.27}_{-0.24}$	4139^{+290}_{-277}	-5096^{+374}_{-607}	$-1.168^{+0.481}_{-1.058}$

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 $A_{obs} \gg 1.0$

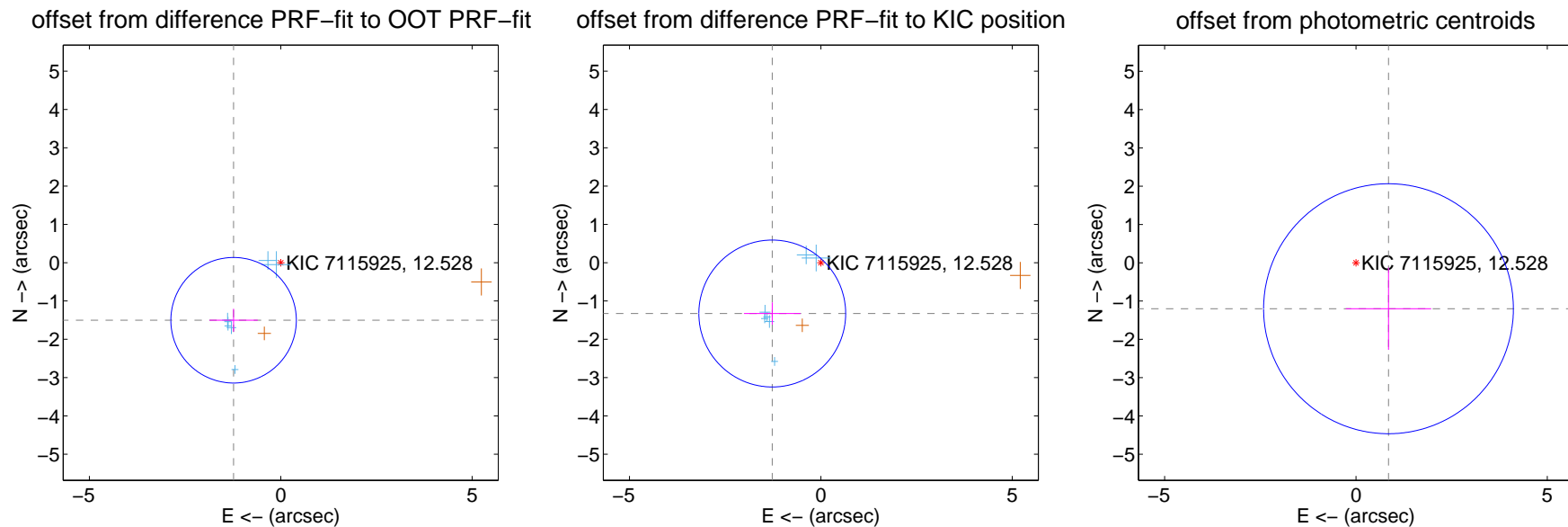
DV Centroid Data

Supplemental centroid analysis for 007115925-01. Kepler magnitude: 12.53. Transit SNR 8.99

There are 7 quarters with good PRF difference image offsets

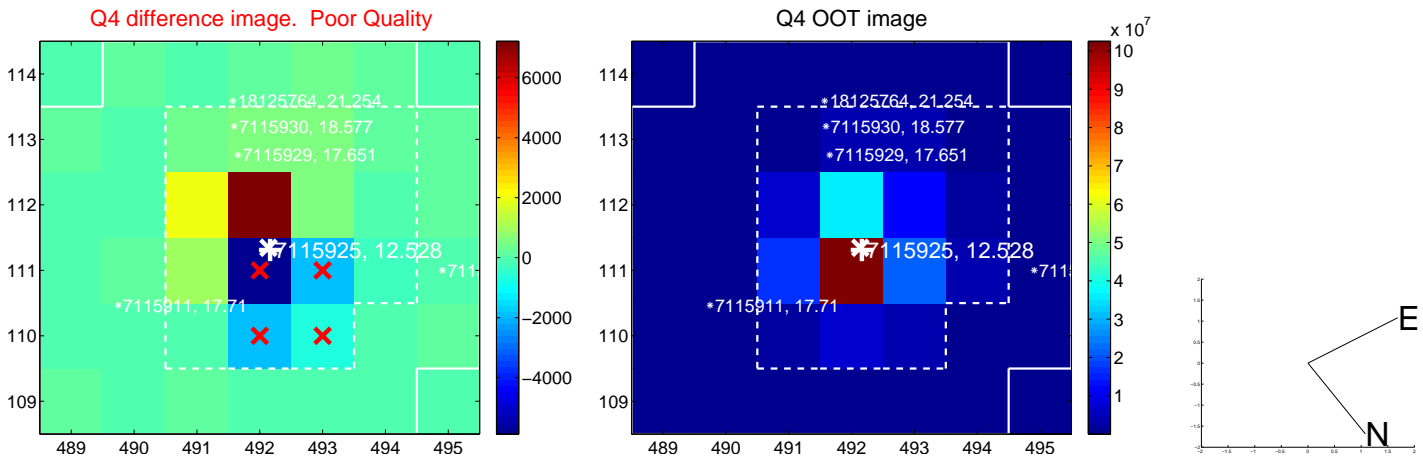
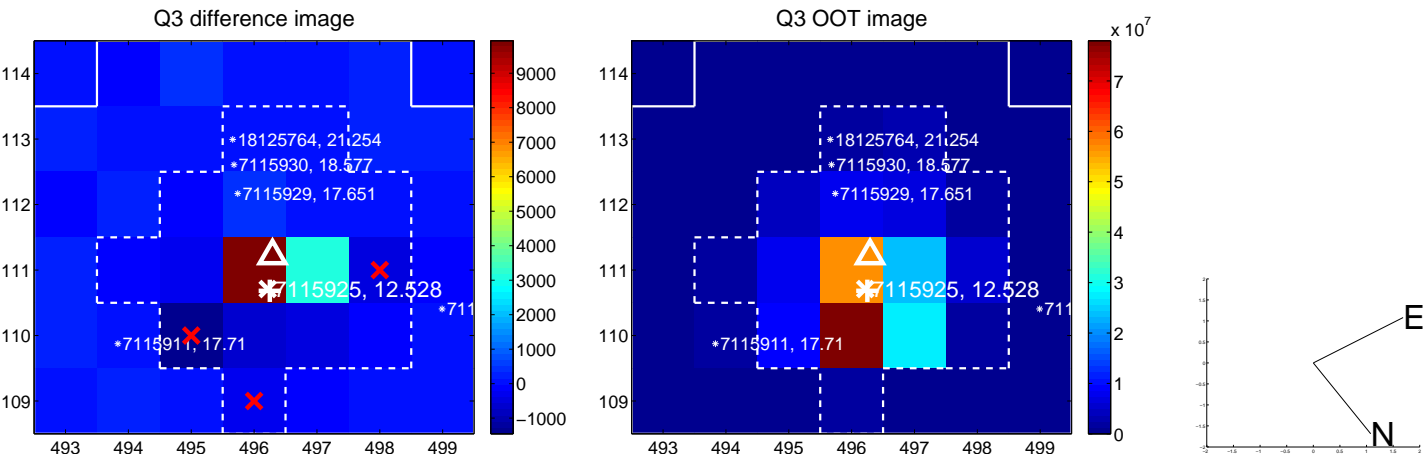
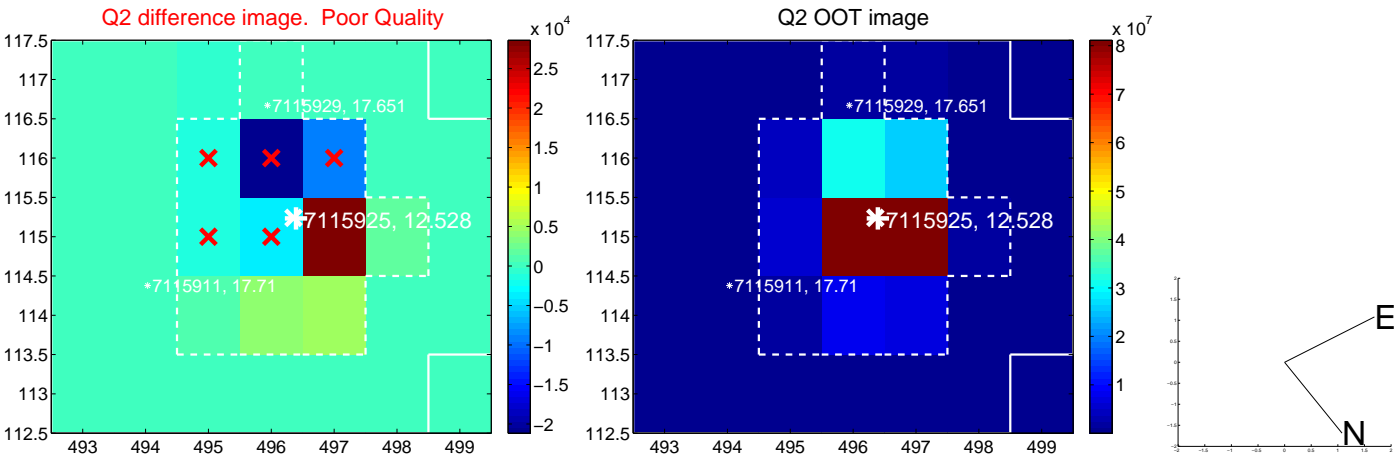
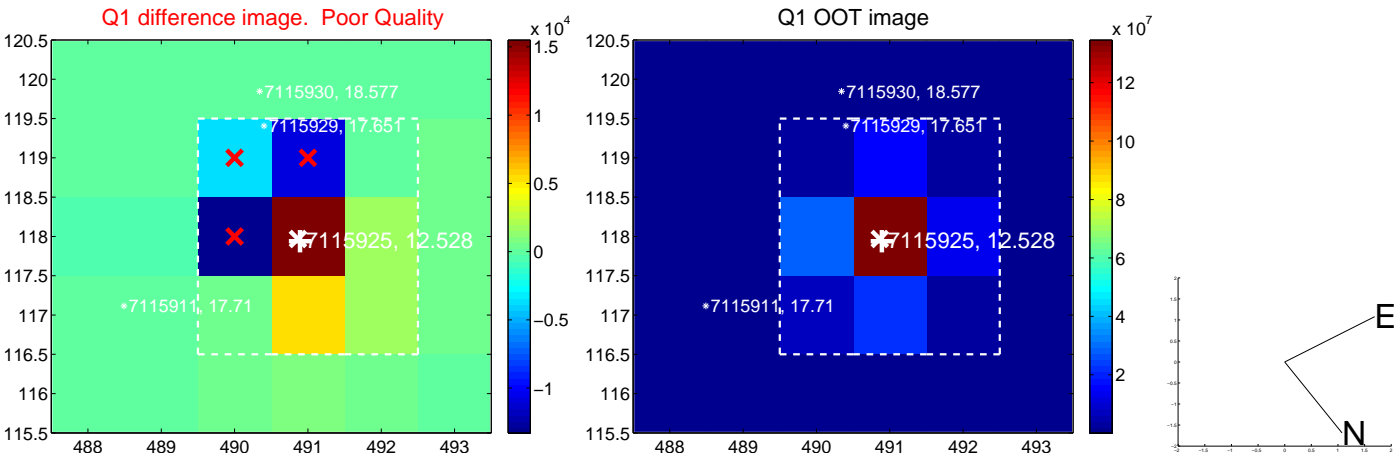
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.943 ± 0.546	3.56	1.232 ± 0.630	-1.503 ± 0.298
PRF-fit source offset from KIC position	1.837 ± 0.639	2.87	1.270 ± 0.739	-1.327 ± 0.291
photometric centroid source offset	1.47 ± 1.09	1.35	-0.85 ± 1.12	-1.20 ± 1.07

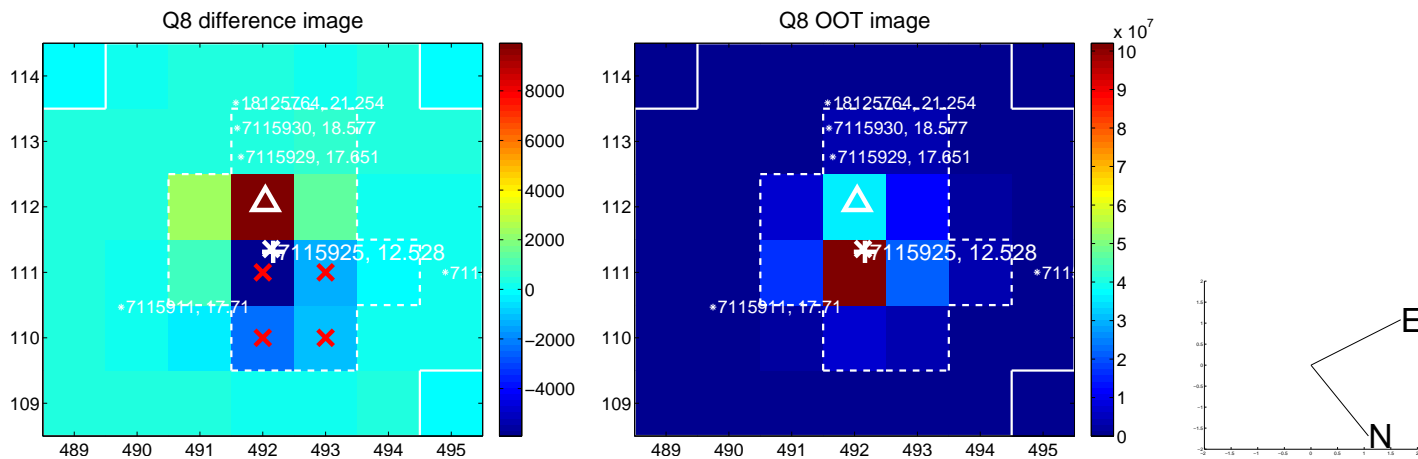
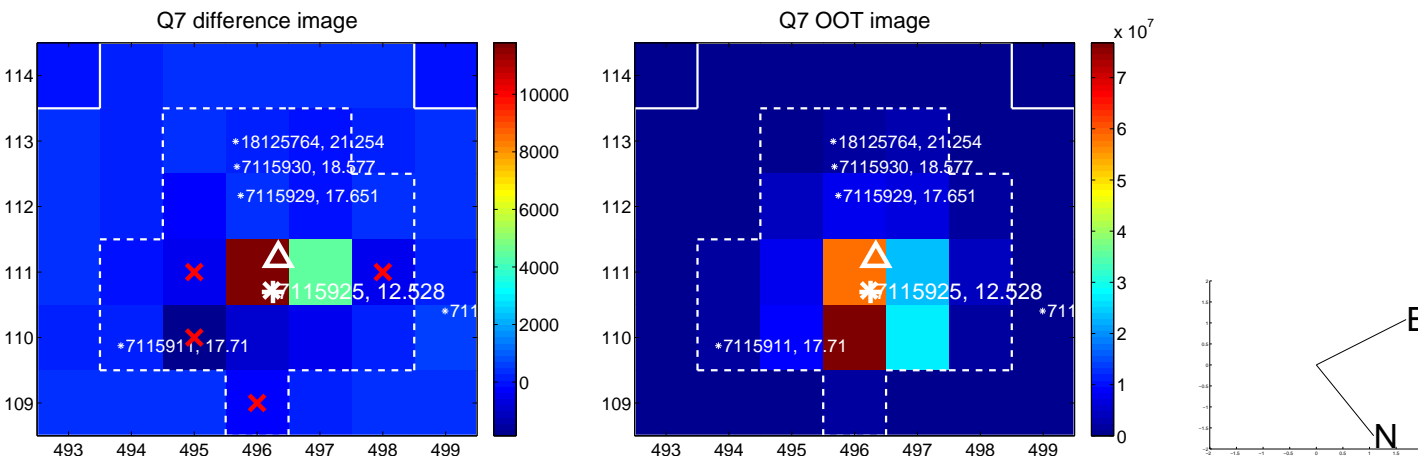
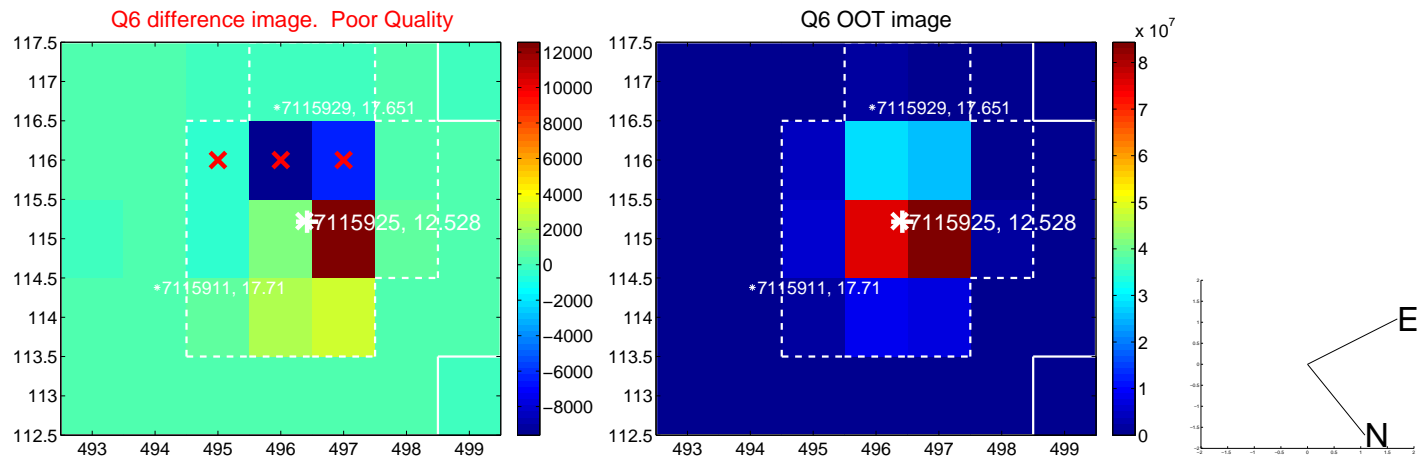
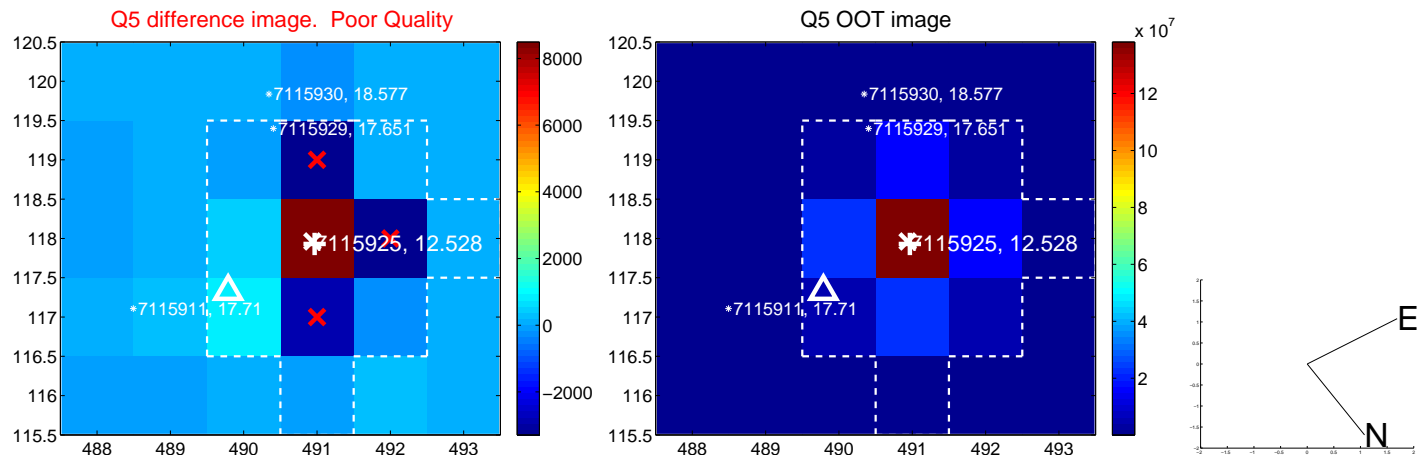


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

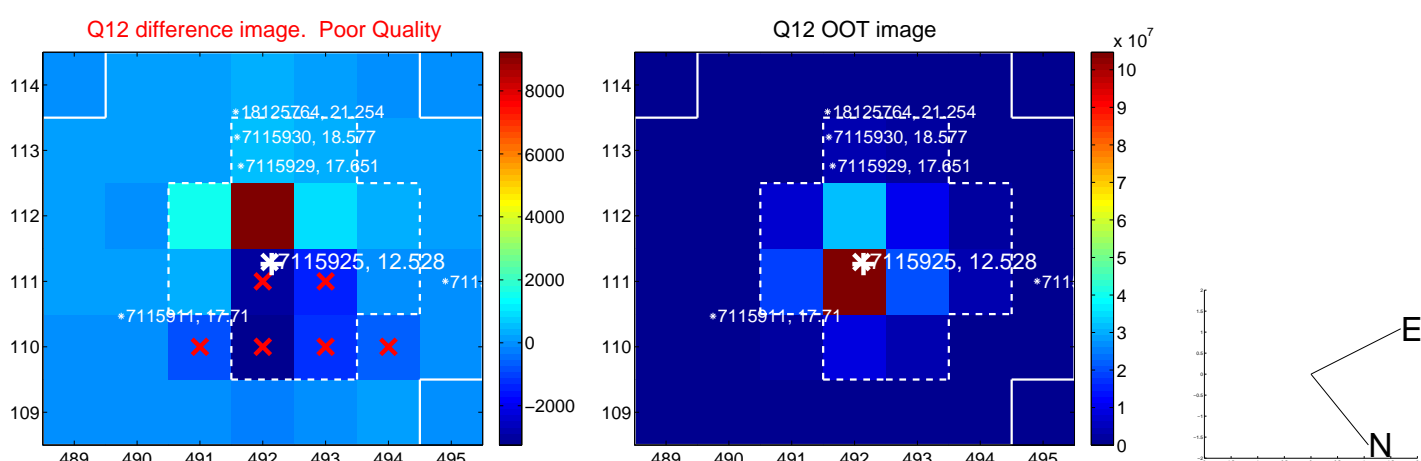
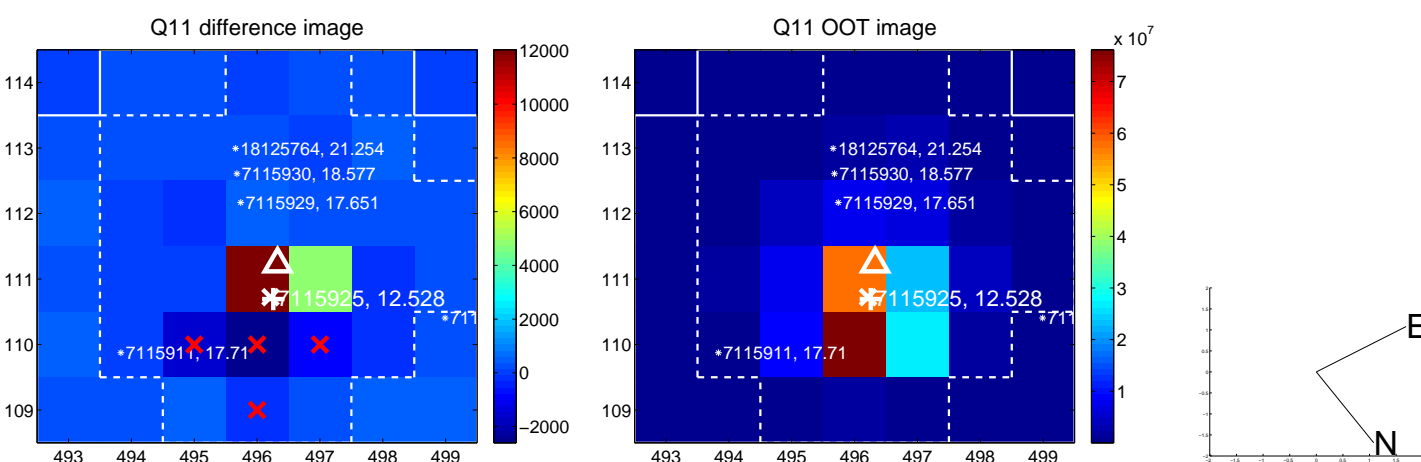
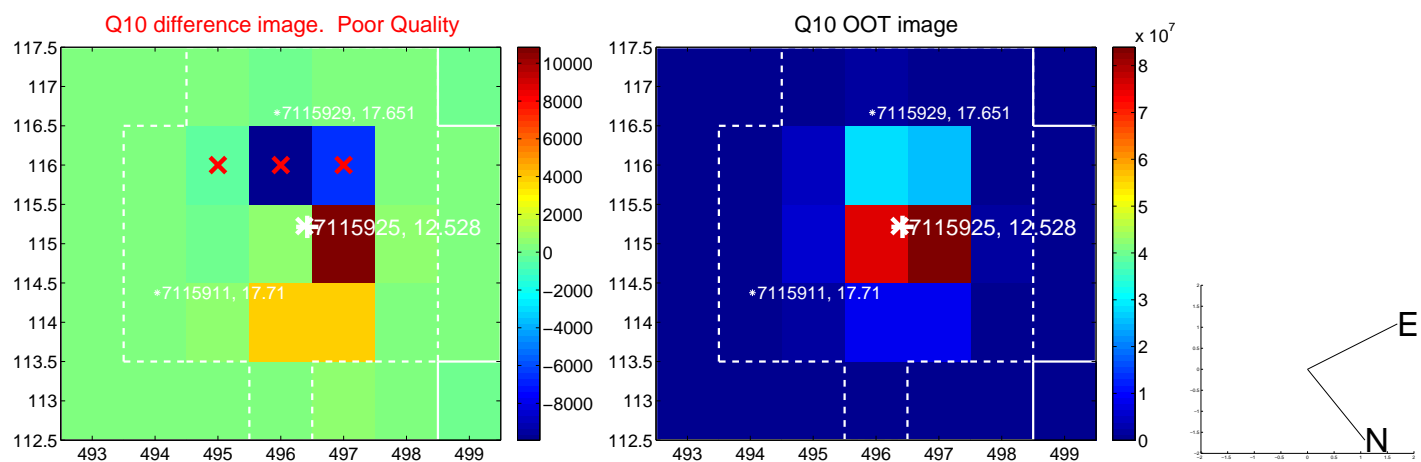
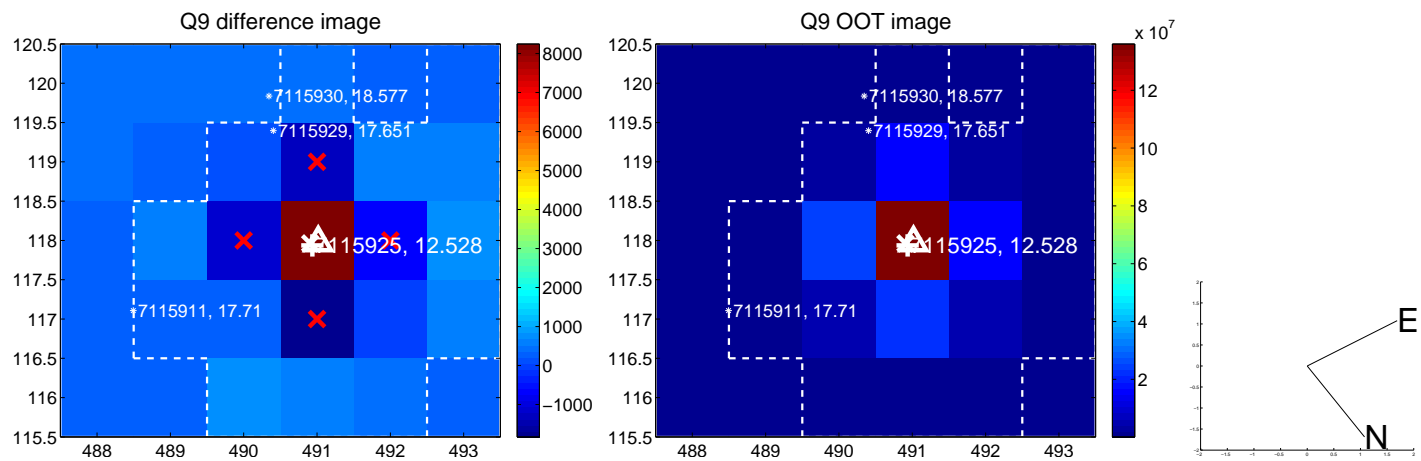
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



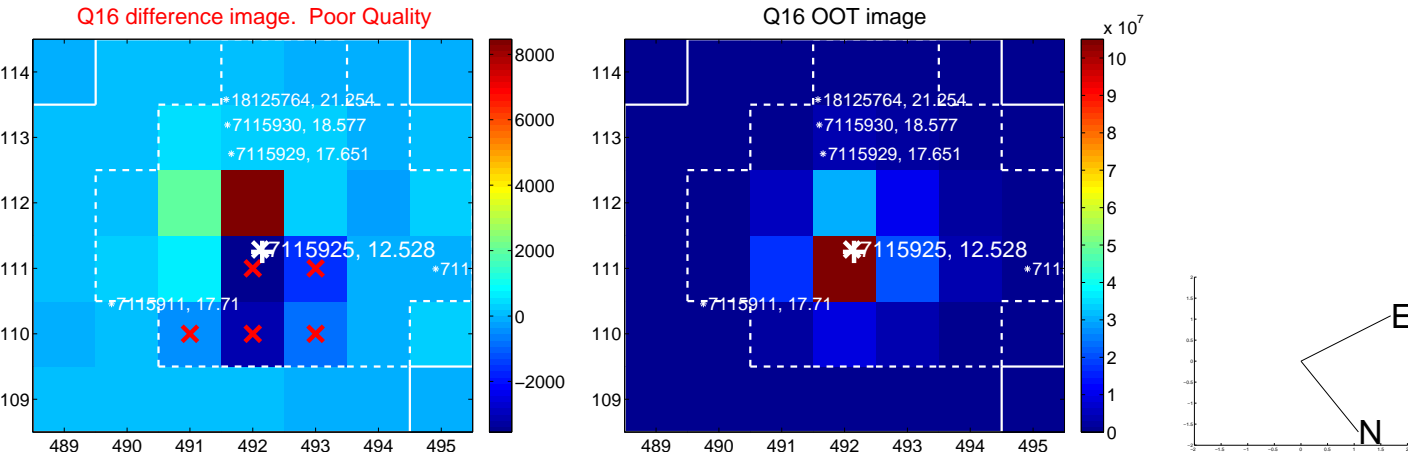
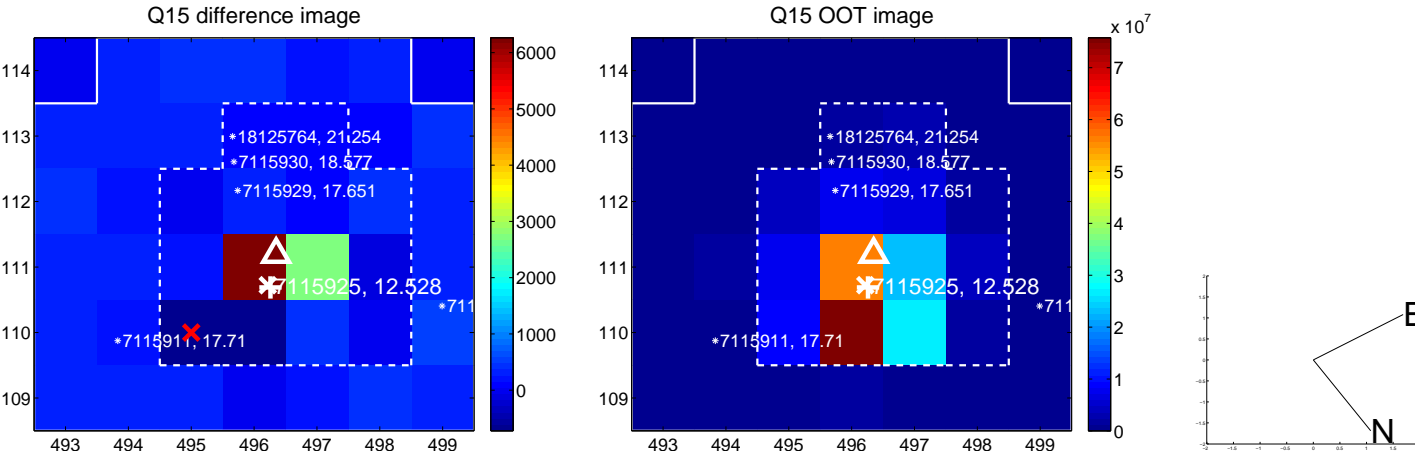
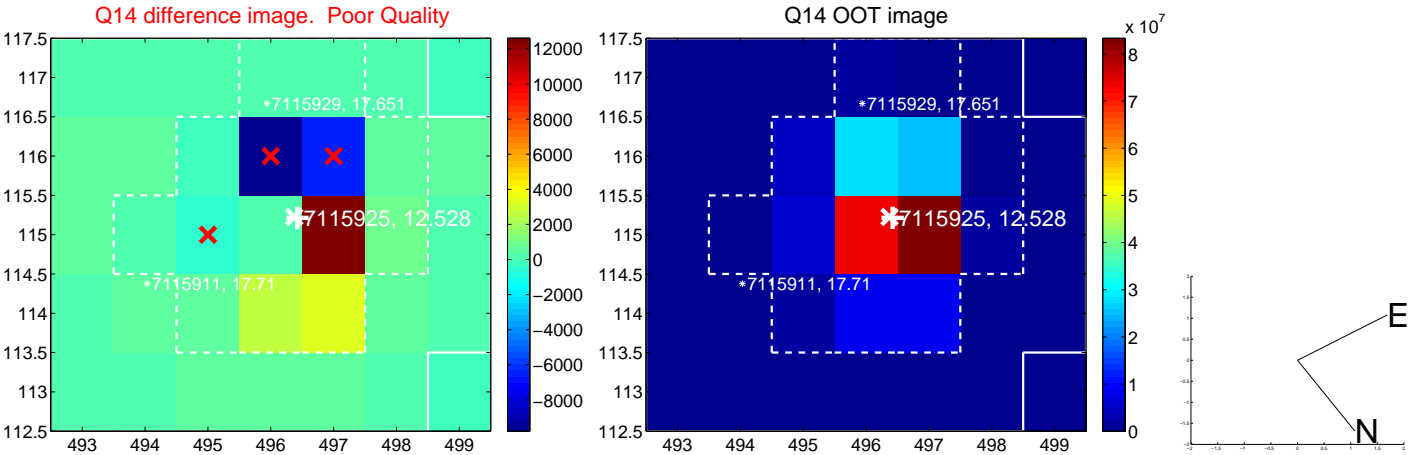
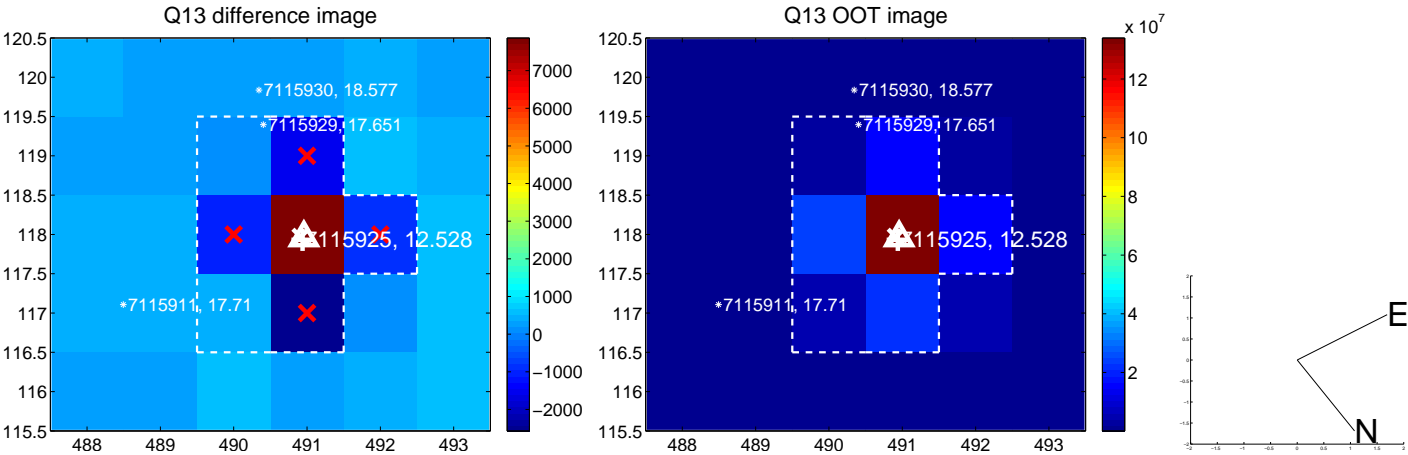
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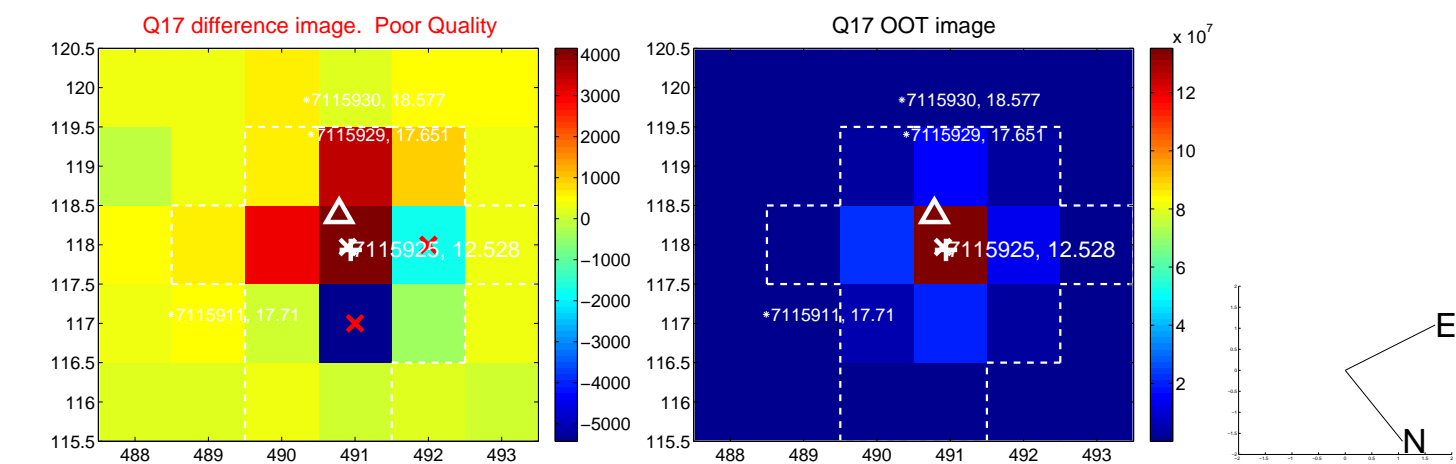
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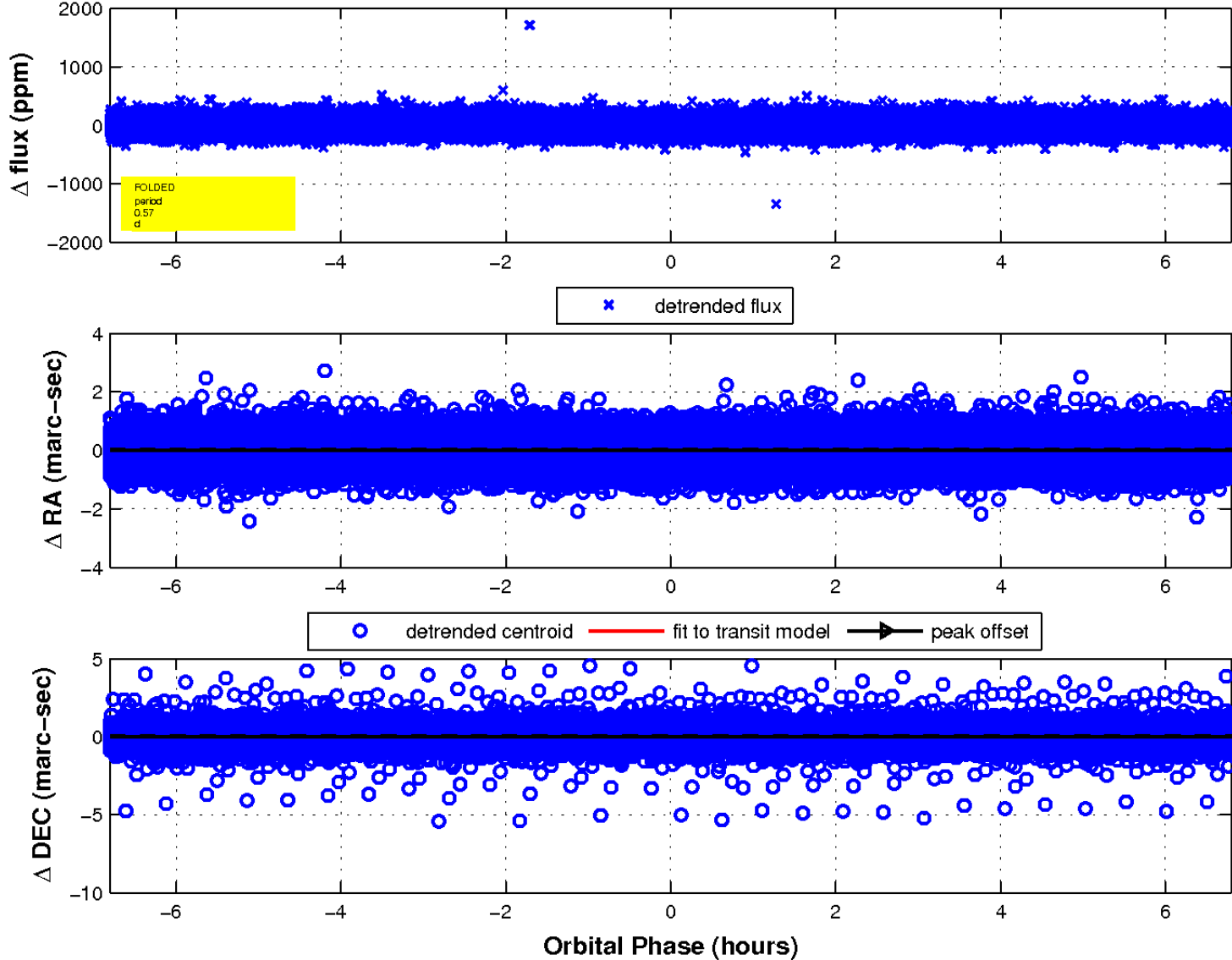
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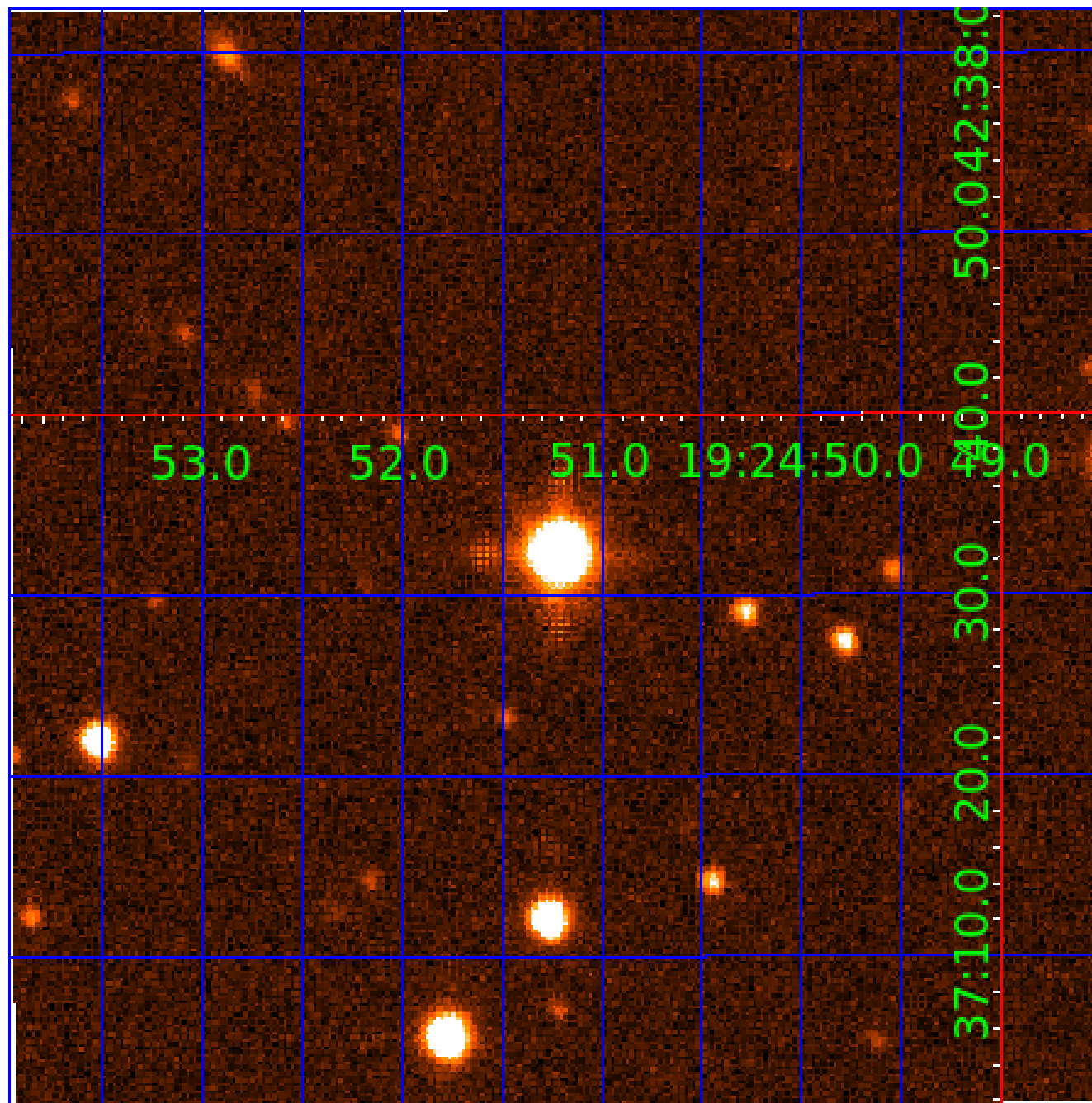


fluxWeightedCentroids, Planet 1 of 6



UKIRT Image

Declination



KIC 007115925

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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007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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.

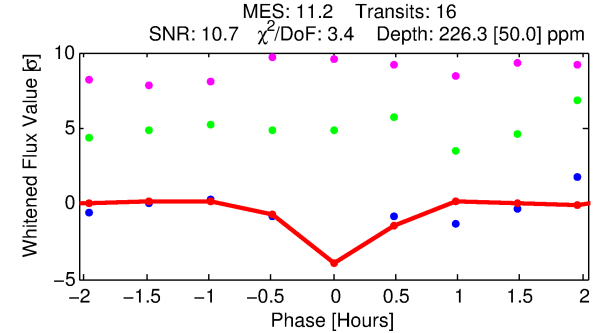
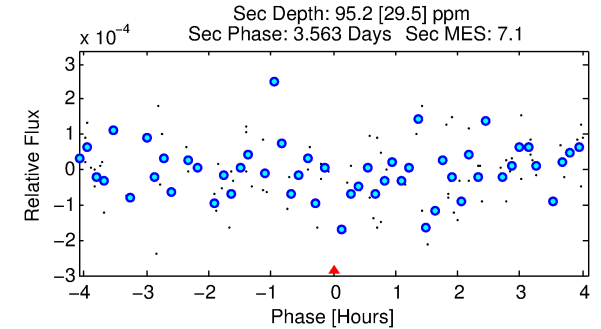
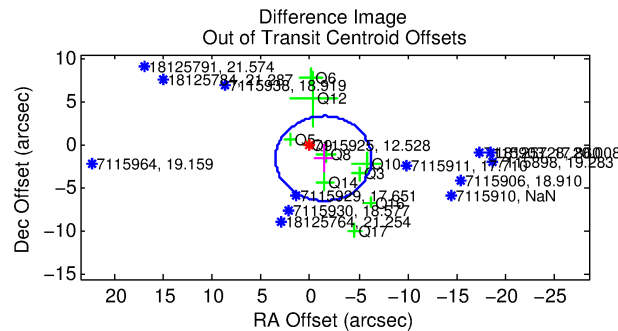
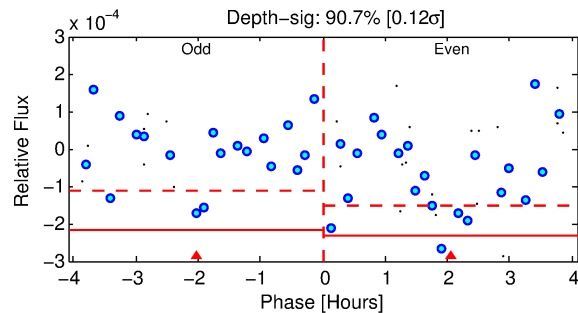
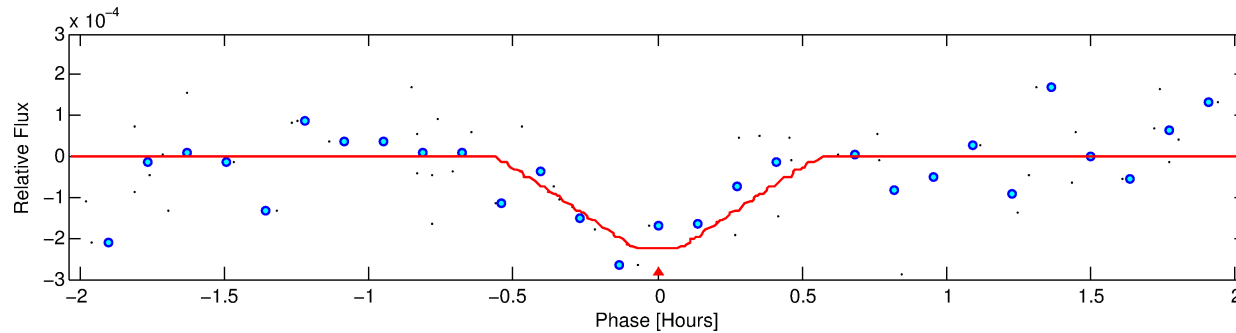
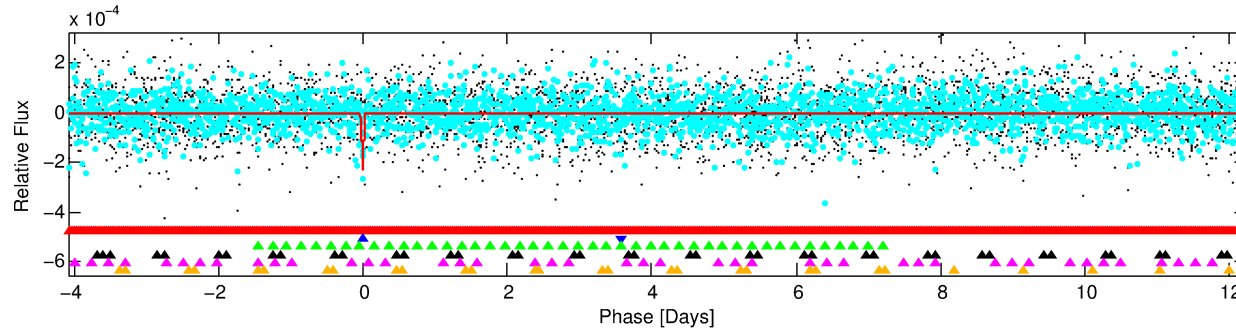
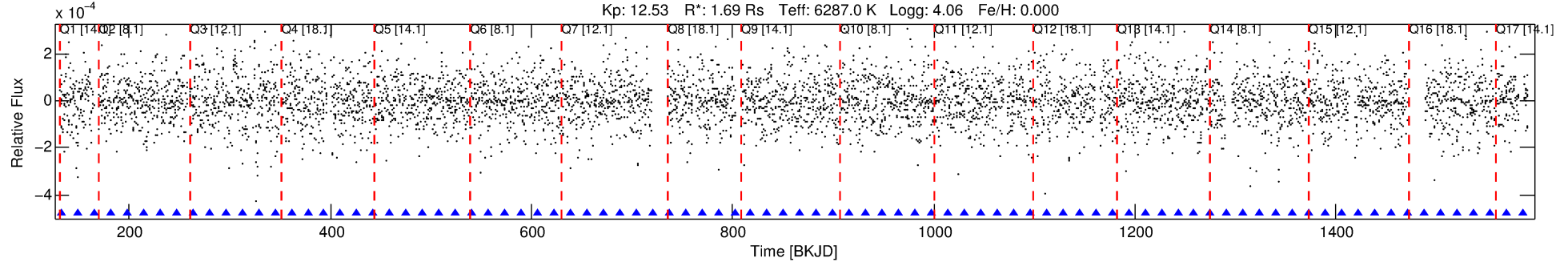
Ephemeris Match Information For 007115925-02

No Significant Match Found

DV One-Page Summary

KIC: 7115925 Candidate: 2 of 6 Period: 16.322 d
KOI: K04258 Corr: No Ephemeris Match

Kp: 12.53 R*: 1.69 Rs Teff: 6287.0 K Logg: 4.06 Fe/H: 0.000



DV Fit Results:

Period = 16.32157 [0.00008] d
Epoch = 132.8144 [0.0030] BKJD
Rp/R* = 0.0141 [0.0250]
a/R* = 185.00 [1631.85]
b = 0.10 [87.82]
Seff = 222.55 [91.58]
Teq = 985 [101] K
Rp = 2.60 [4.67] Re
a = 0.1343 [0.0337] AU
Ag = 139.16 [498.50] [0.28σ]
Teffp = 5230 [4658] K [0.91σ]

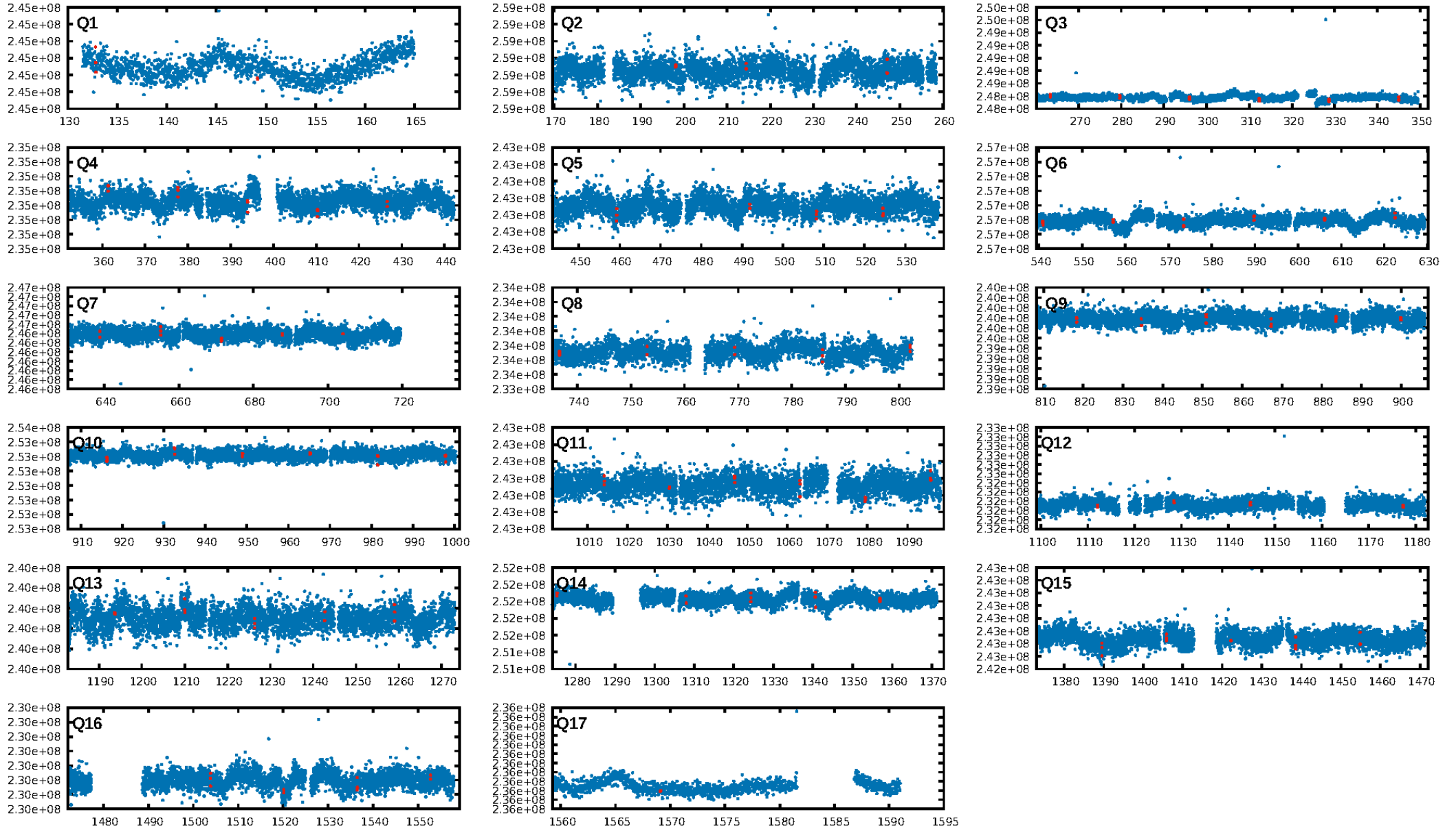
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [94.03σ]
LongPeriod-sig: 100.0% [242.83σ]
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 49.0%
Bootstrap-pfa: 2.09e-09
RollingBand-fgt: 1.00 [15/15]
GhostDiagnostic-chr: -0.08165
Centroid-sig: 12.9%
Centroid-so: 0.780 arcsec [1.55σ]
OotOffset-rm: 2.076 arcsec [1.27σ]
KicOffset-rm: 1.927 arcsec [1.30σ]
OotOffset-st: 3/1/3/3 [10]
KicOffset-st: 3/1/3/3 [10]
DiffImageQuality-fgm: 0.30 [3/10]
DiffImageOverlap-fno: 0.00 [0/17]

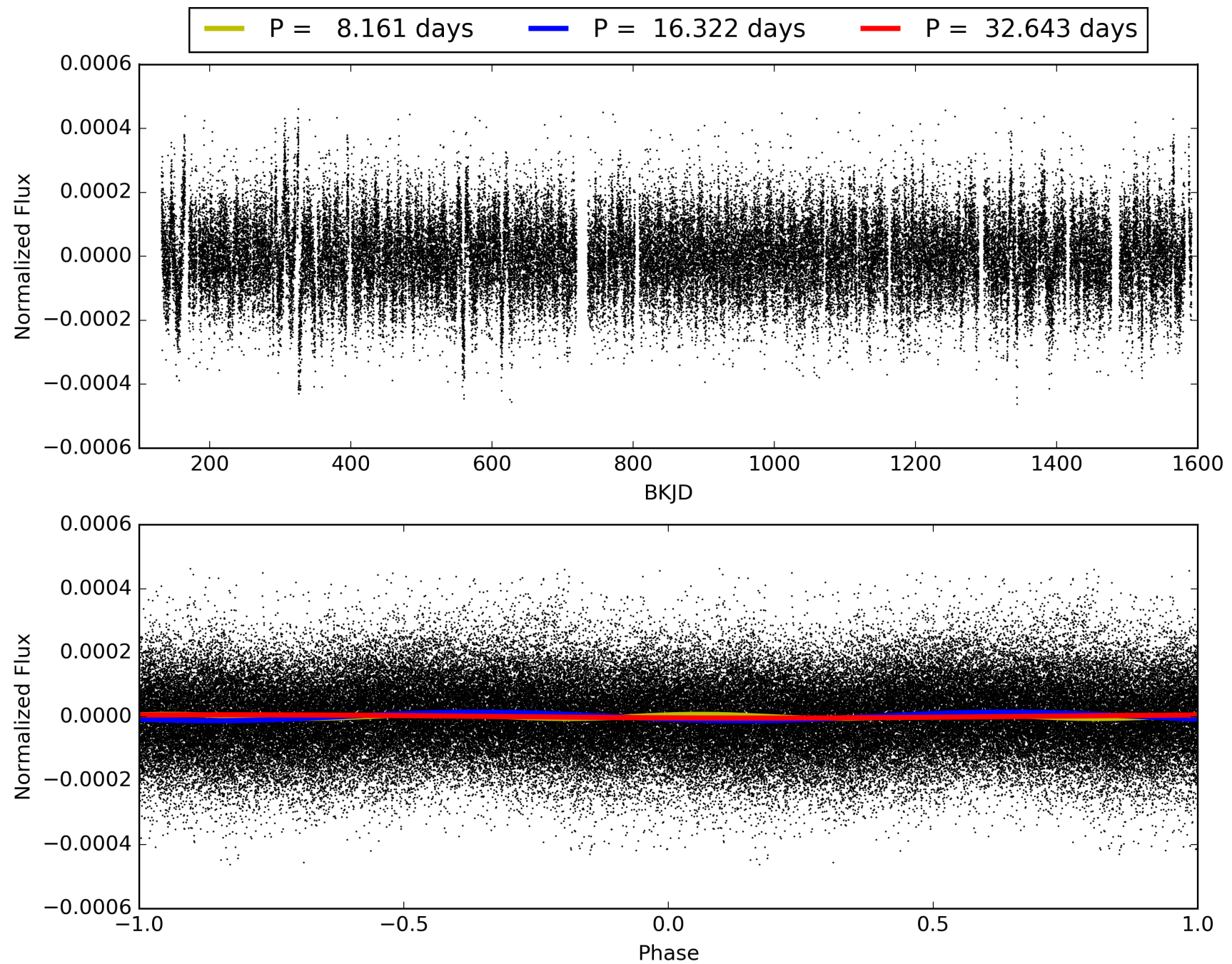
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:51:58 Z

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

TCE 007115925-02, PDC Light Curves

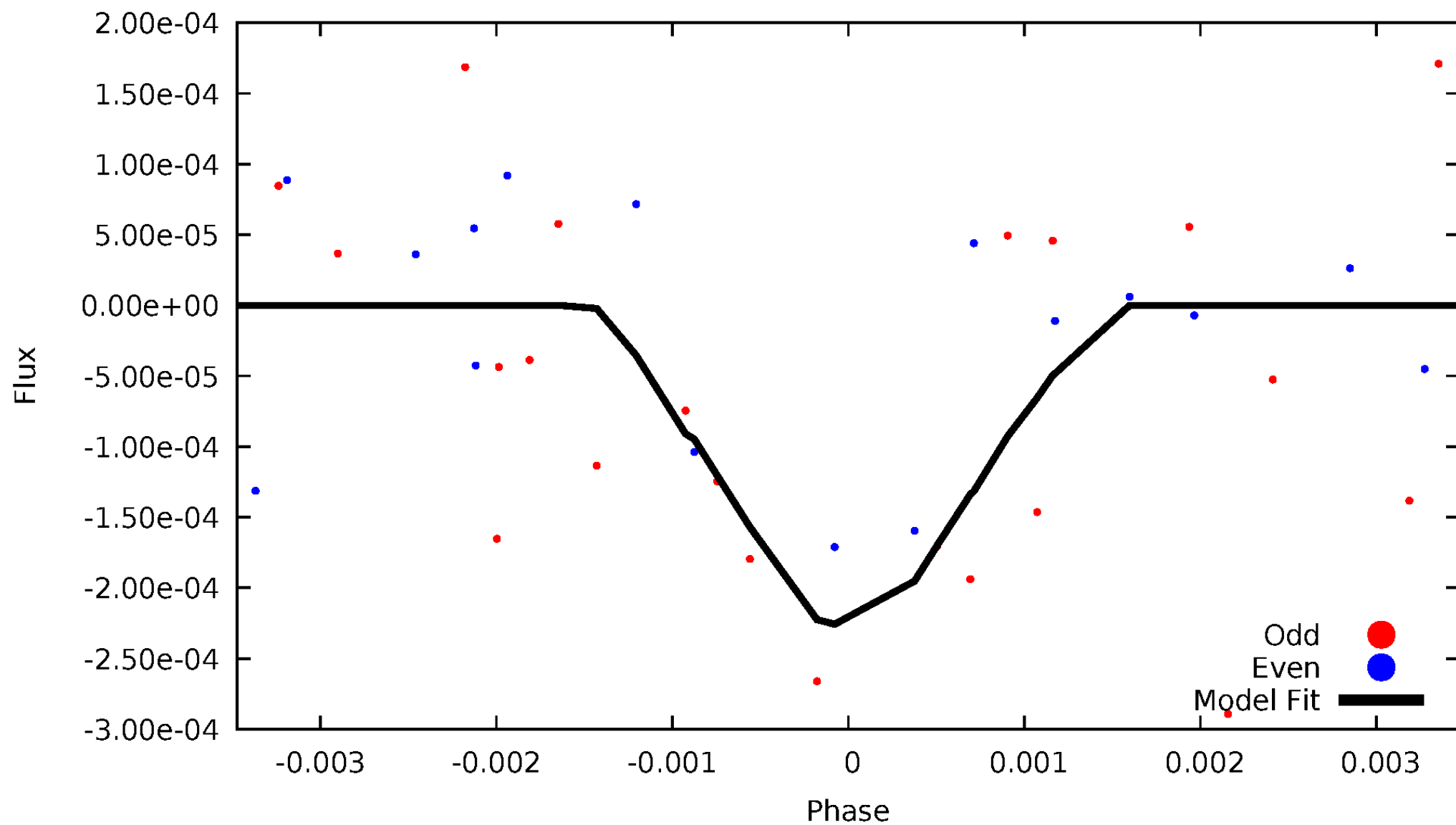


TCE 007115925-02



DV Odd/Even

TCE 007115925-02

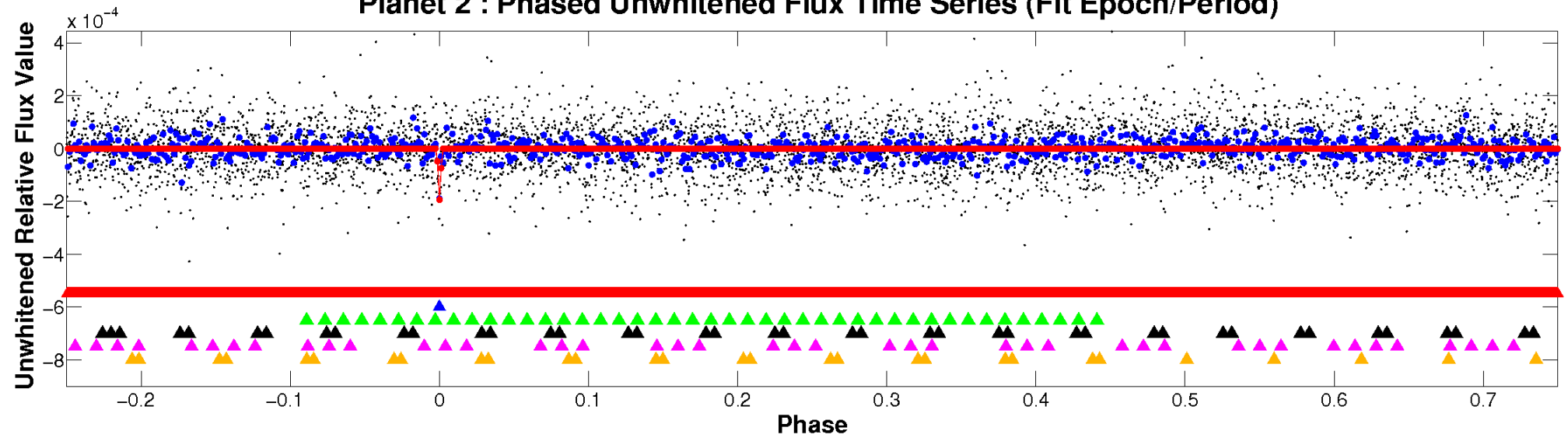


ALT Odd/Even

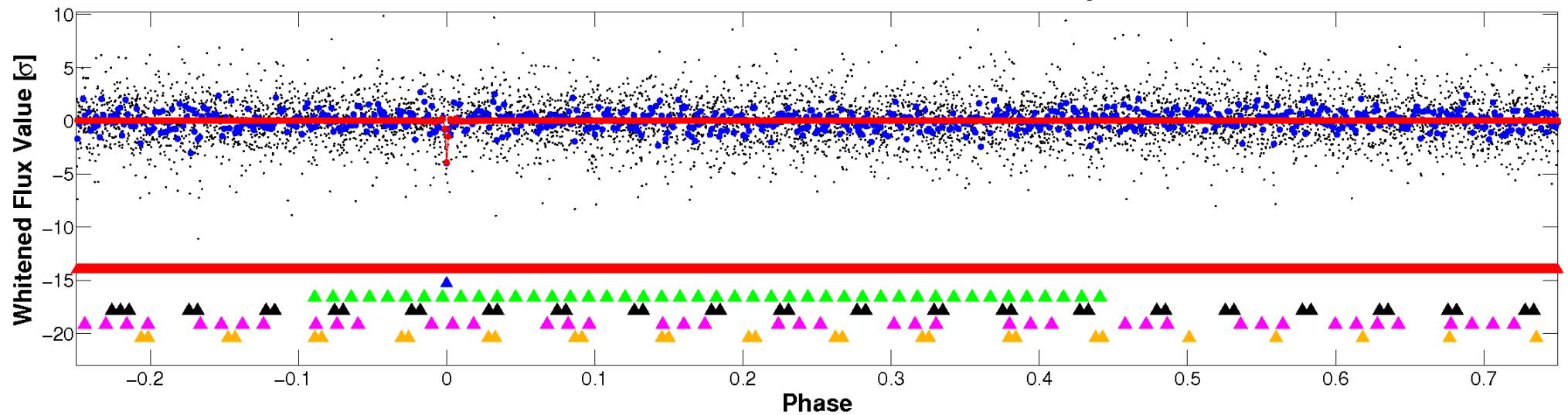
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

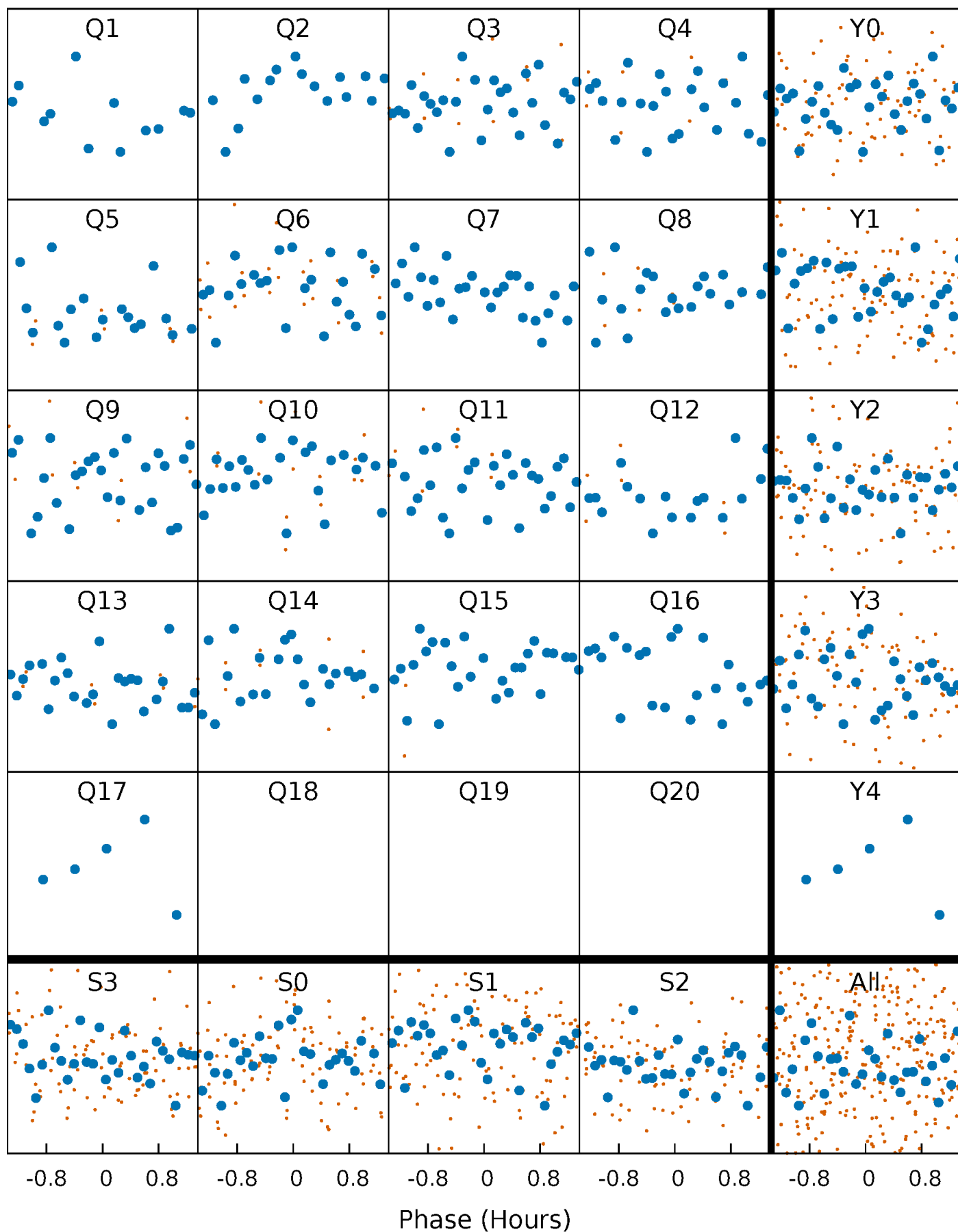


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



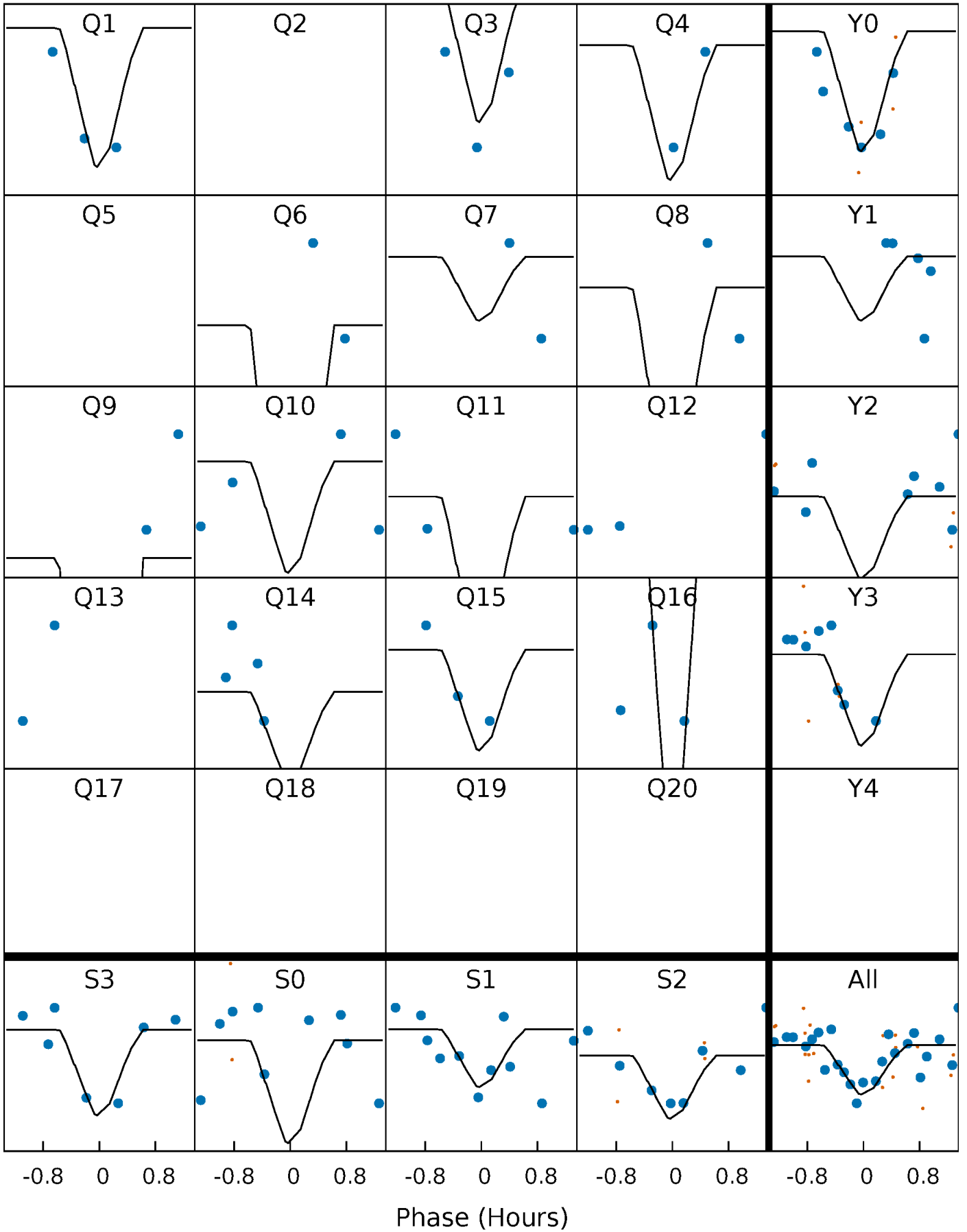
PDC Quarter-Phased Transit Curves

TCE 007115925-02 P= 16.321569 Days $T_0=132.814450$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007115925-02 P= 16.321569 Days $T_0=132.814450$ (BKJD)

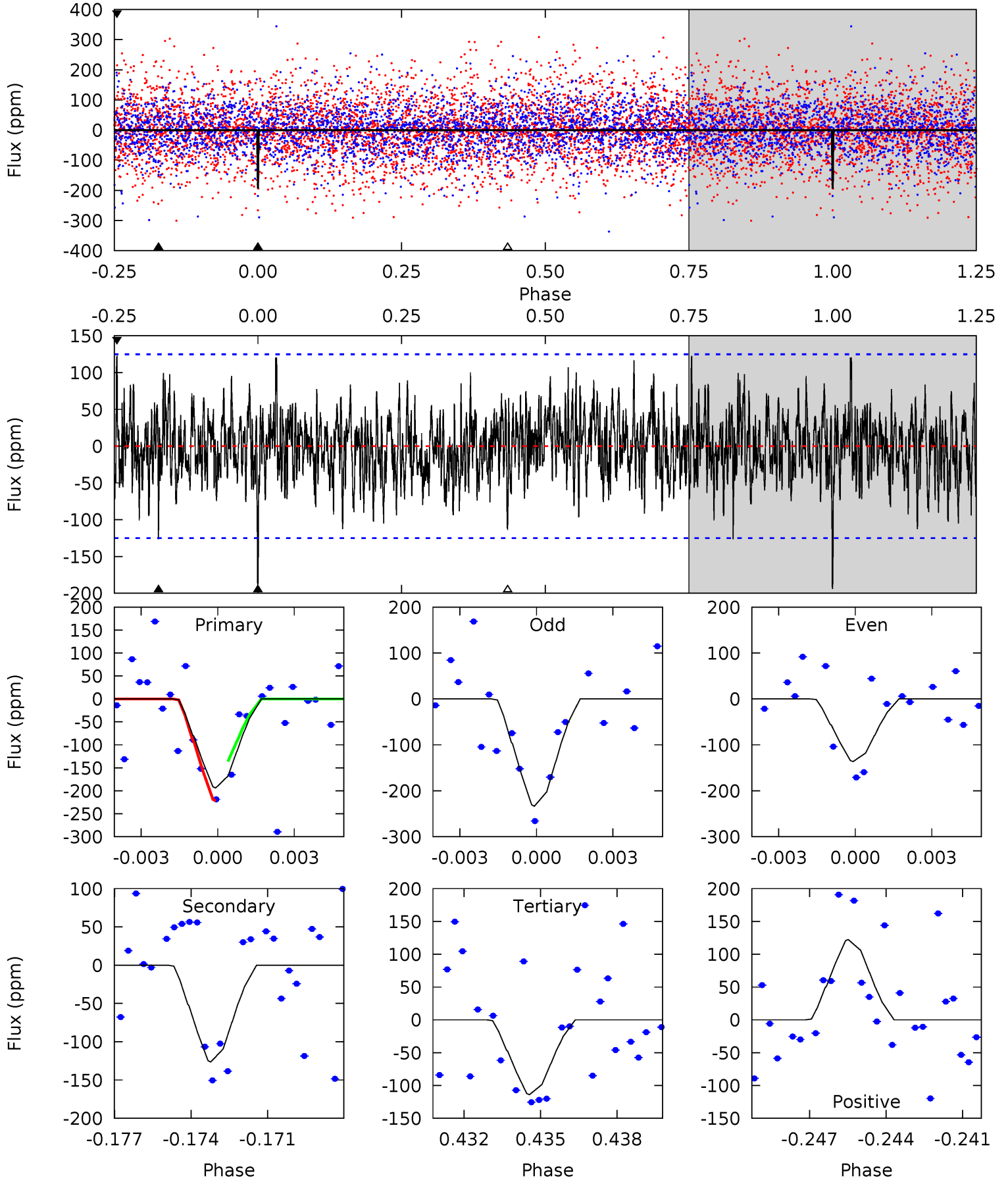


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007115925-02, P = 16.321569 Days, E = 116.492881 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.17	5.33	4.80	5.16	5.26	2.99	1.58	3.37	3.02	0.53	0.17	2.10	1.02	0.39	1.81



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-127 ± 24	$4.22^{+3.86}_{-2.77}$	1357^{+90}_{-94}	4469^{+2991}_{-893}	69^{+532}_{-51}
Alt.	N/A	N/A	N/A	N/A	N/A

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

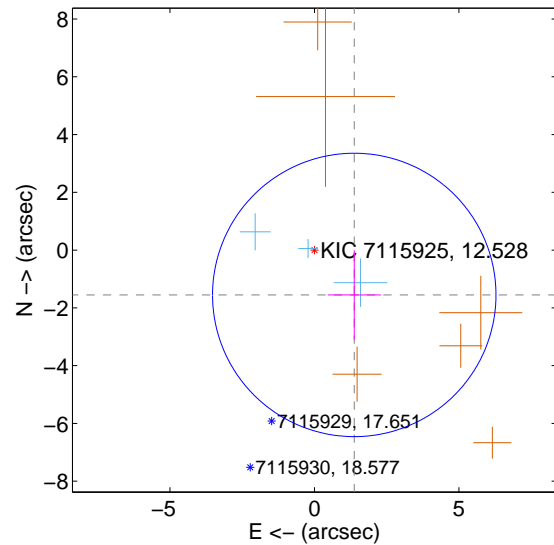
Supplemental centroid analysis for 007115925-02. Kepler magnitude: 12.53. Transit SNR 10.69

There are 3 quarters with good PRF difference image offsets

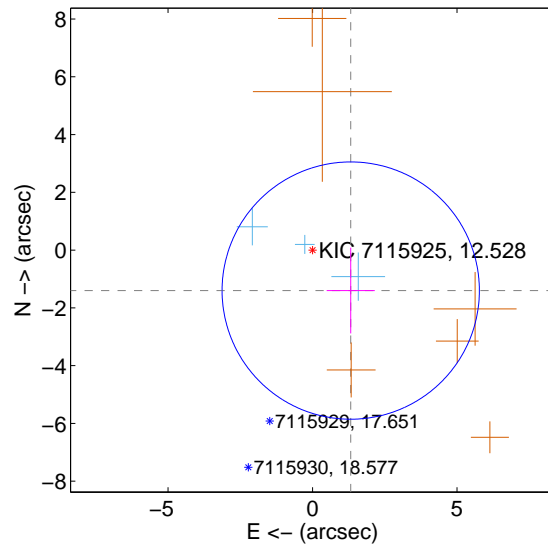
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.076 ± 1.635	1.27	-1.378 ± 0.918	-1.552 ± 1.548
PRF-fit source offset from KIC position	1.927 ± 1.484	1.30	-1.322 ± 0.831	-1.401 ± 1.485
photometric centroid source offset	0.78 ± 0.50	1.55	0.25 ± 0.53	0.74 ± 0.50

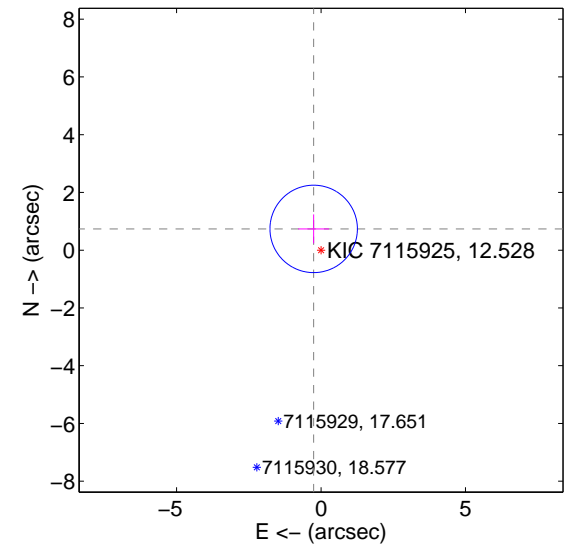
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

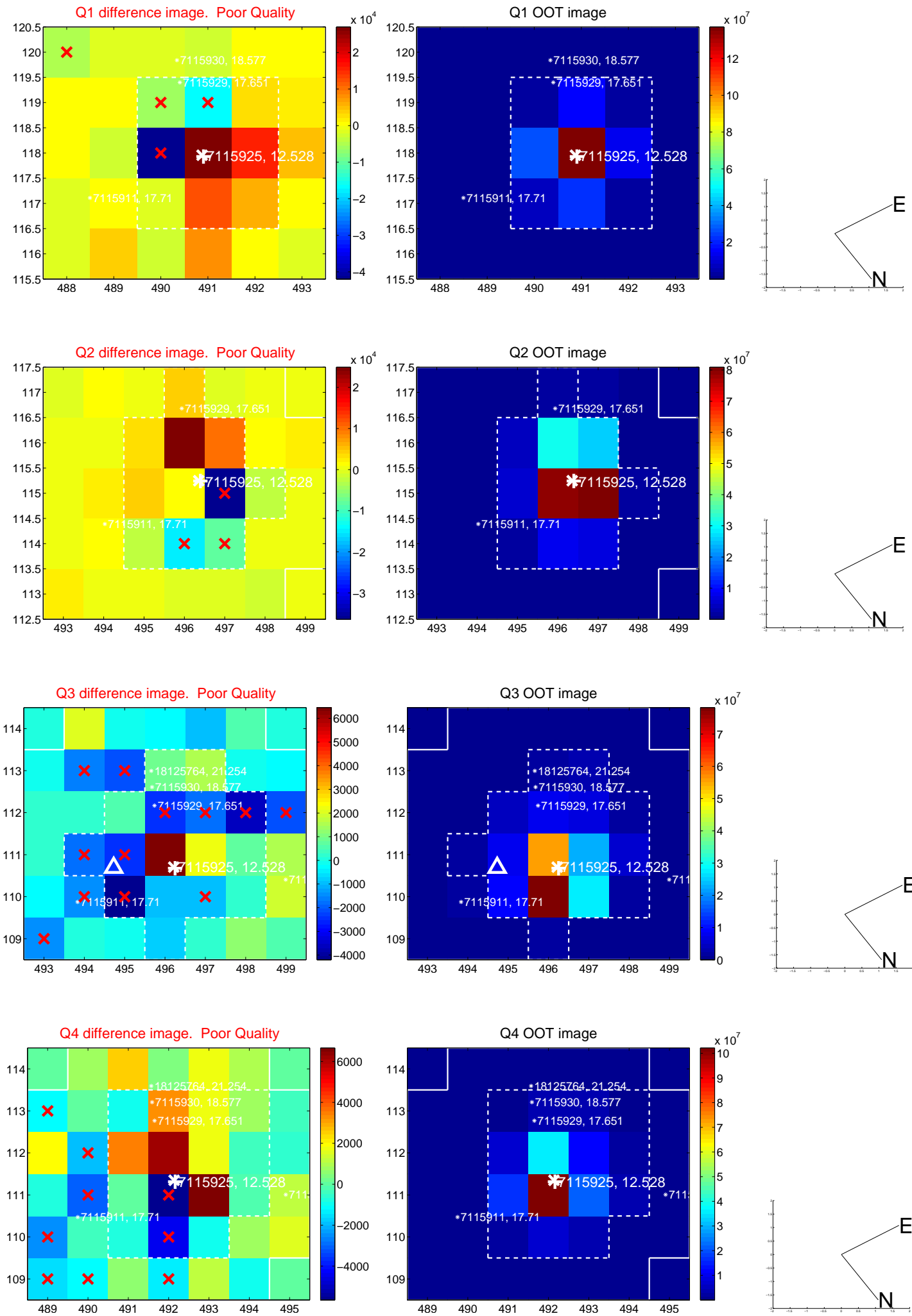


offset from photometric centroids

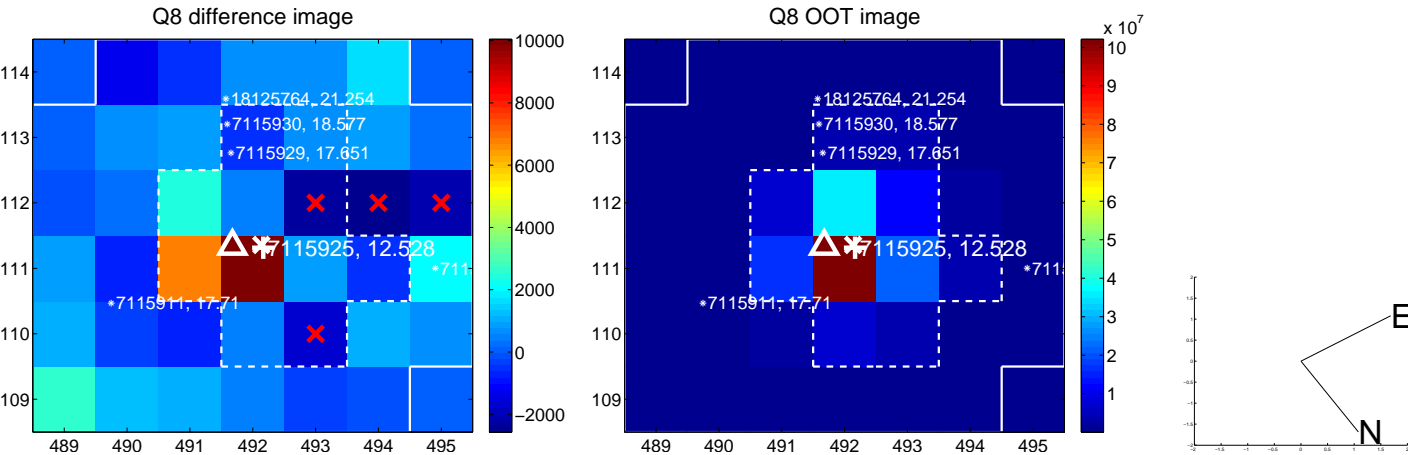
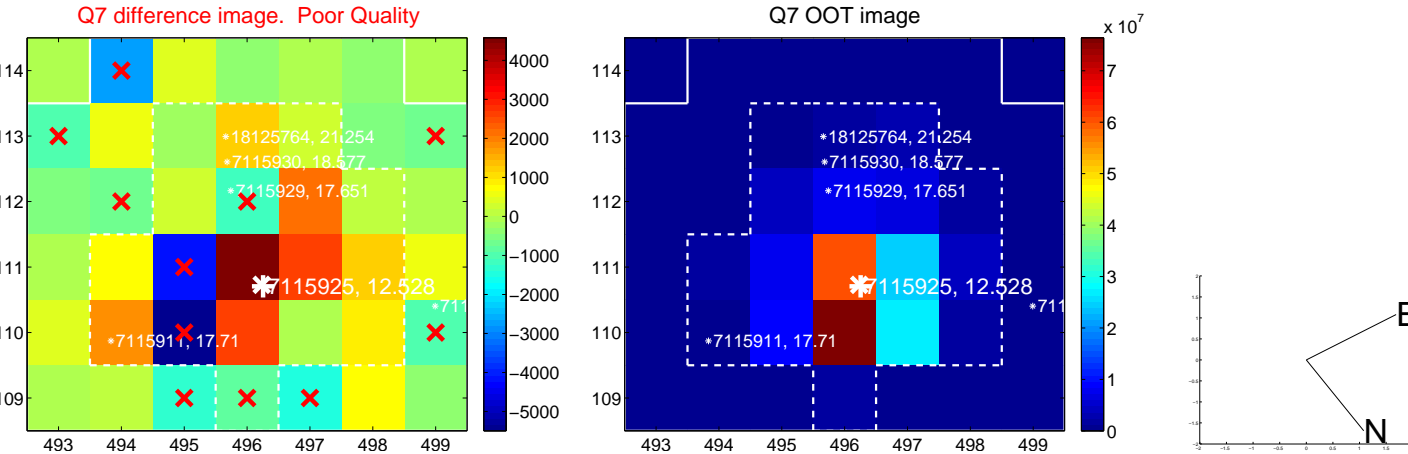
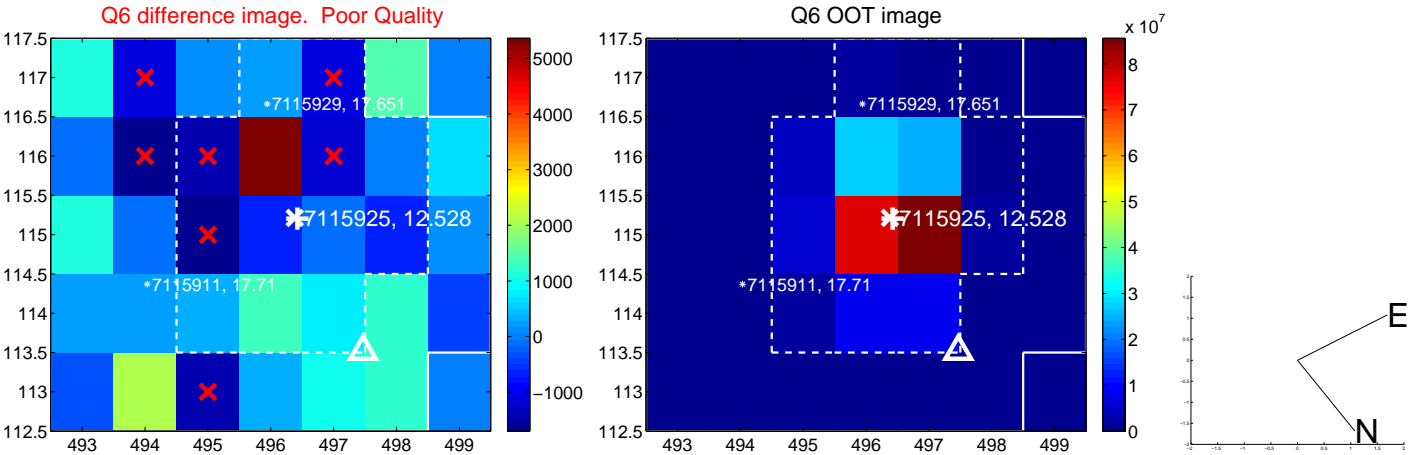
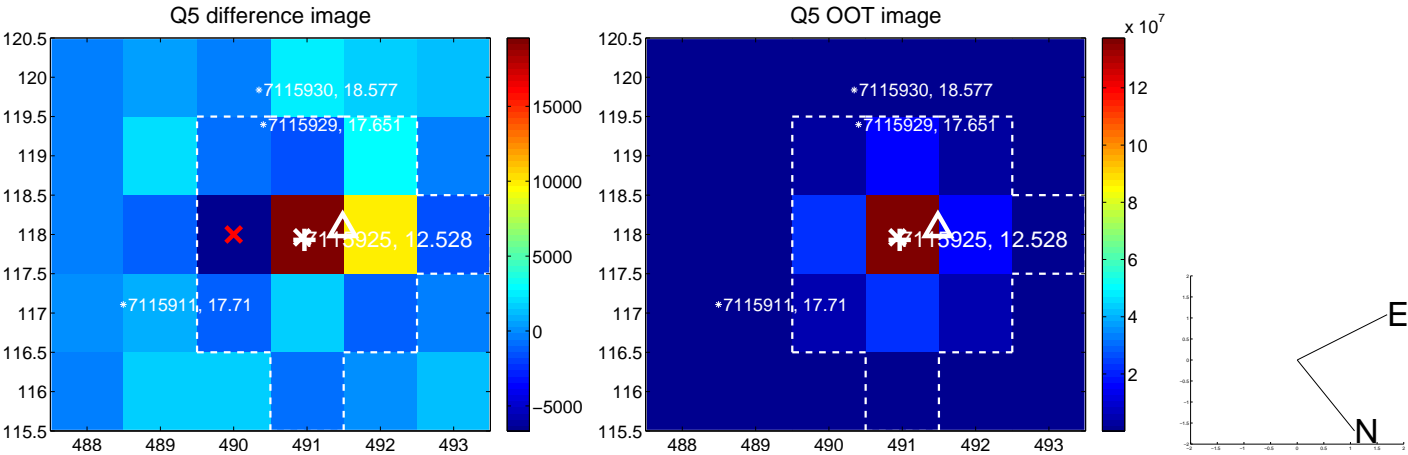


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

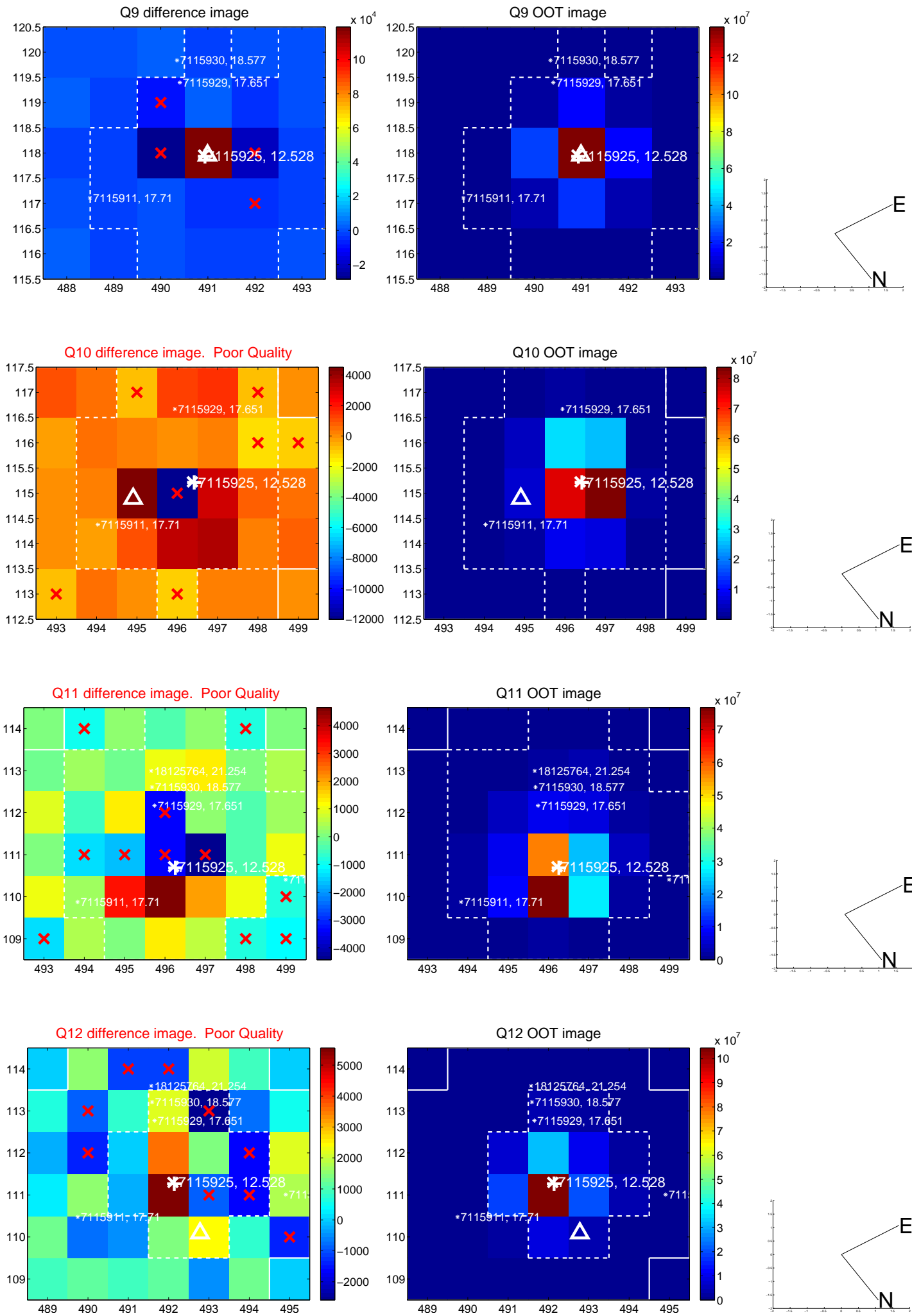
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



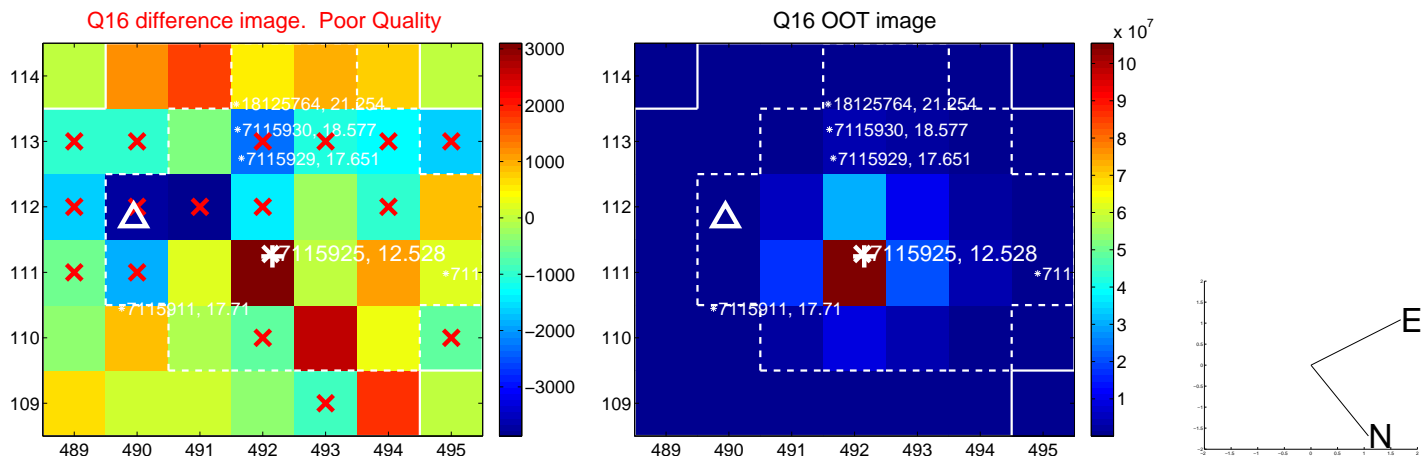
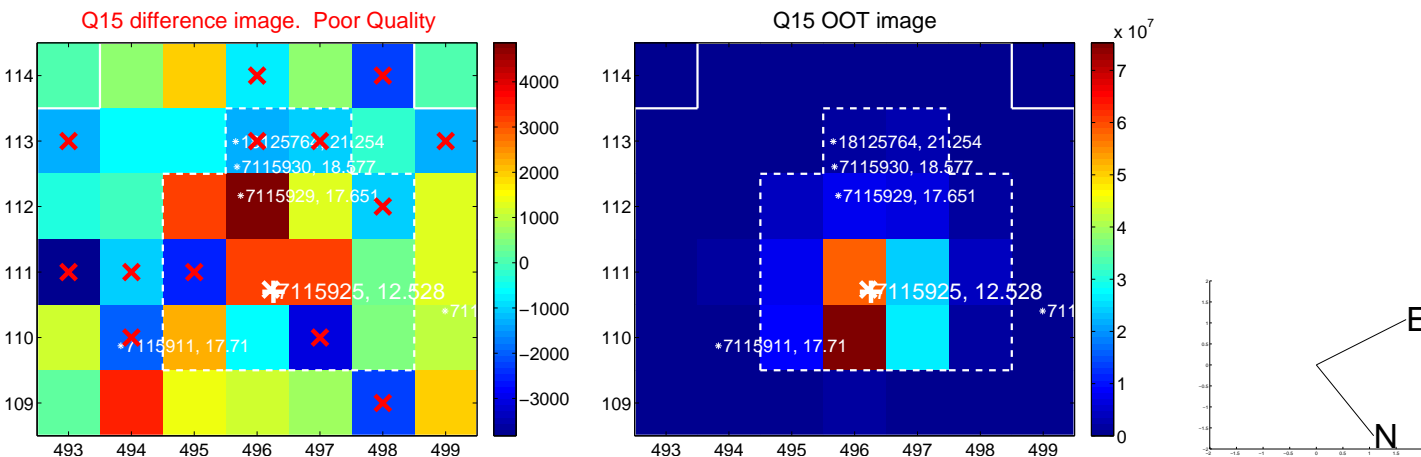
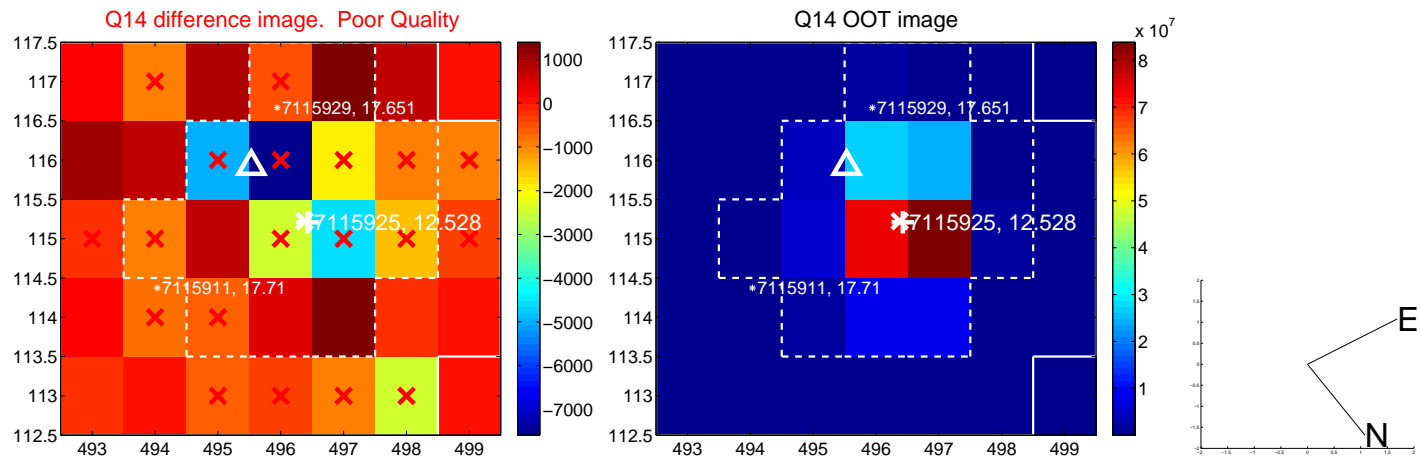
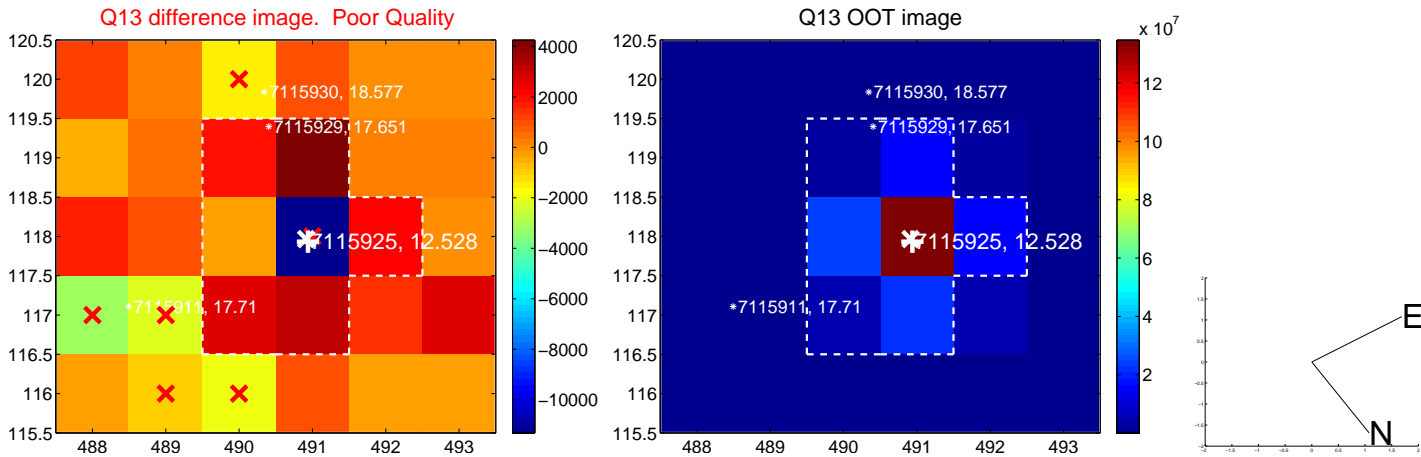
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

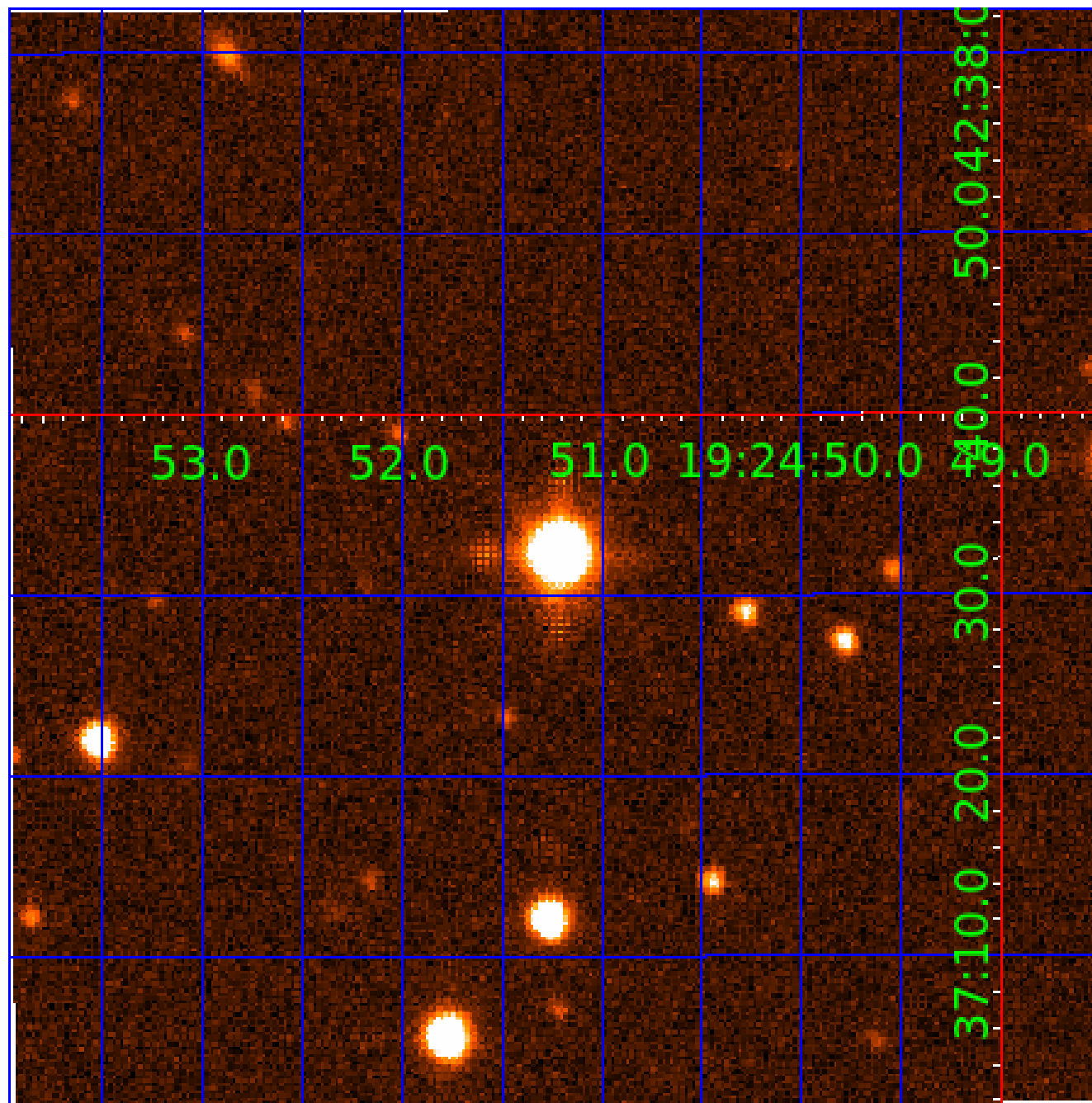


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 007115925

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})
007115925-01	OBS	4258.01	0.566768	131.837309	7.9	3.963	13.4	9.0	1.69	6287	0.51	19644.11
007115925-02	OBS	No	16.321569	132.814450	226.3	0.680	11.2	10.7	1.69	6287	2.60	222.55
007115925-03	OBS	No	32.844297	164.004936	169.4	1.485	12.9	10.3	1.69	6287	2.46	87.60
007115925-04	OBS	No	35.096107	161.770551	205.6	1.013	10.1	10.5	1.69	6287	2.74	80.19
007115925-05	OBS	No	33.916479	142.603613	144.5	1.890	10.8	10.1	1.69	6287	2.26	83.92
007115925-06	OBS	No	49.920369	162.170442	189.6	1.481	10.9	11.4	1.69	6287	2.36	50.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007115925-01	OBS	FP	0.00	1	0	0	1	LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007115925-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
007115925-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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.

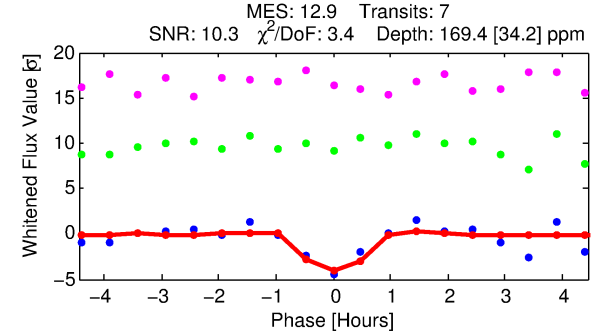
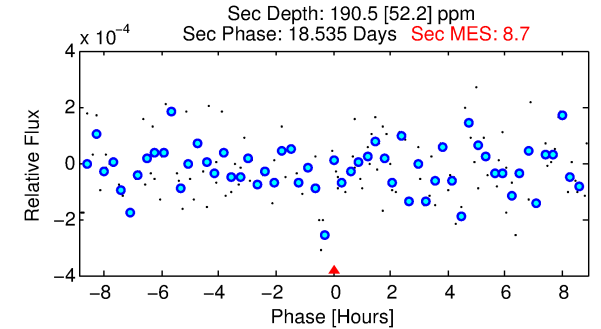
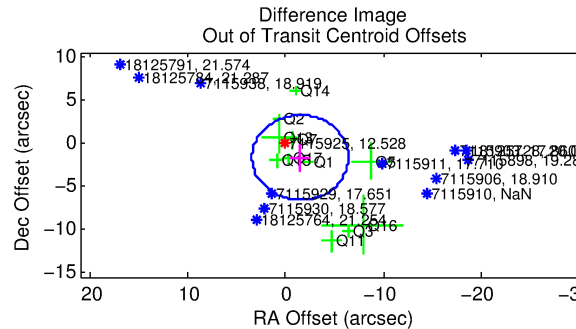
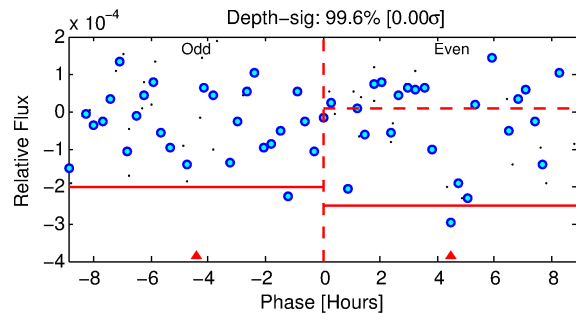
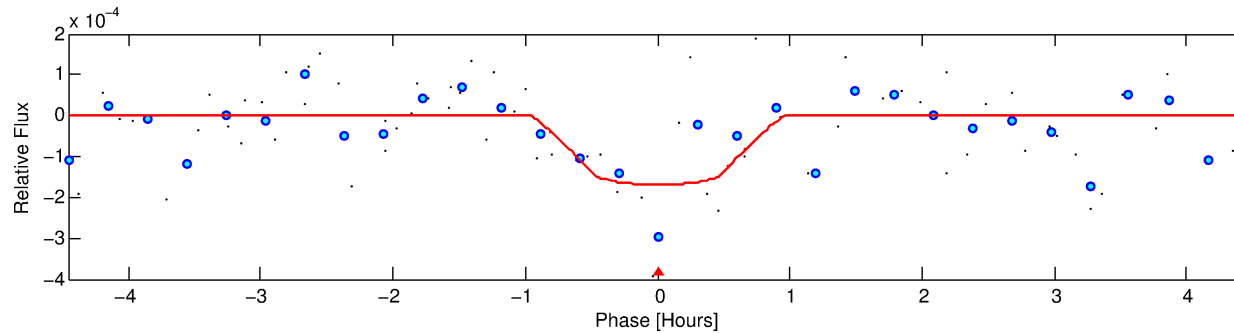
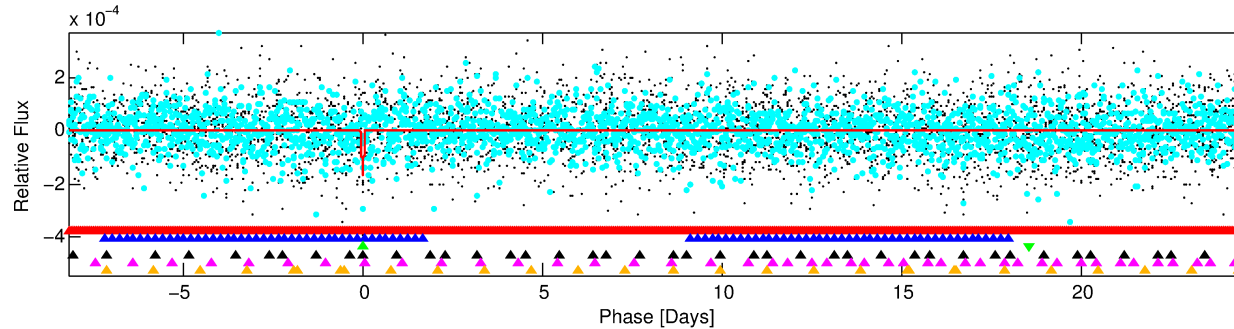
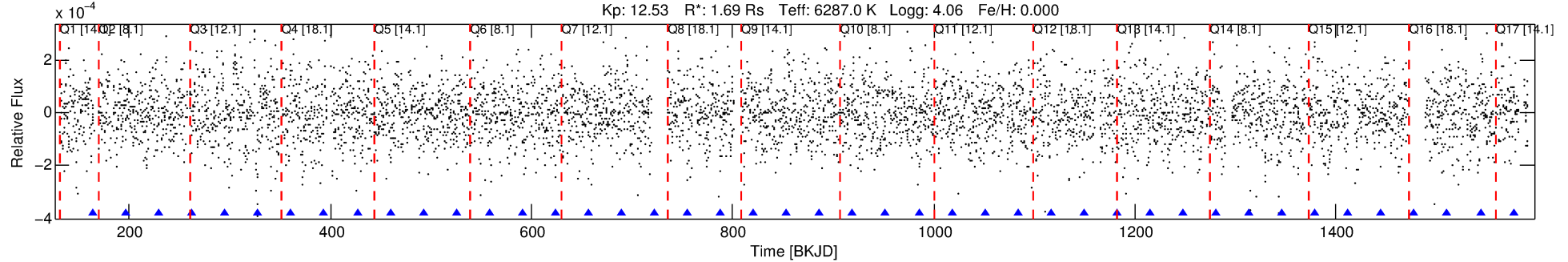
Ephemeris Match Information For 007115925-03

No Significant Match Found

DV One-Page Summary

KIC: 7115925 Candidate: 3 of 6 Period: 32.844 d
KOI: K04258 Corr: No Ephemeris Match

Kp: 12.53 R*: 1.69 Rs Teff: 6287.0 K Logg: 4.06 Fe/H: 0.000



DV Fit Results:

Period = 32.84430 [0.00045] d
Epoch = 164.0049 [0.0097] BKJD
Rp/R* = 0.0133 [0.0297]
a/R* = 101.29 [1199.98]
b = 0.82 [4.82]
Seff = 87.60 [36.05]
Teq = 780 [80] K
Rp = 2.46 [5.52] Re
a = 0.2140 [0.0538] AU
Ag = 790.46 [3536.55] [0.22σ]
Teffp = 6395 [7128] K [0.79σ]

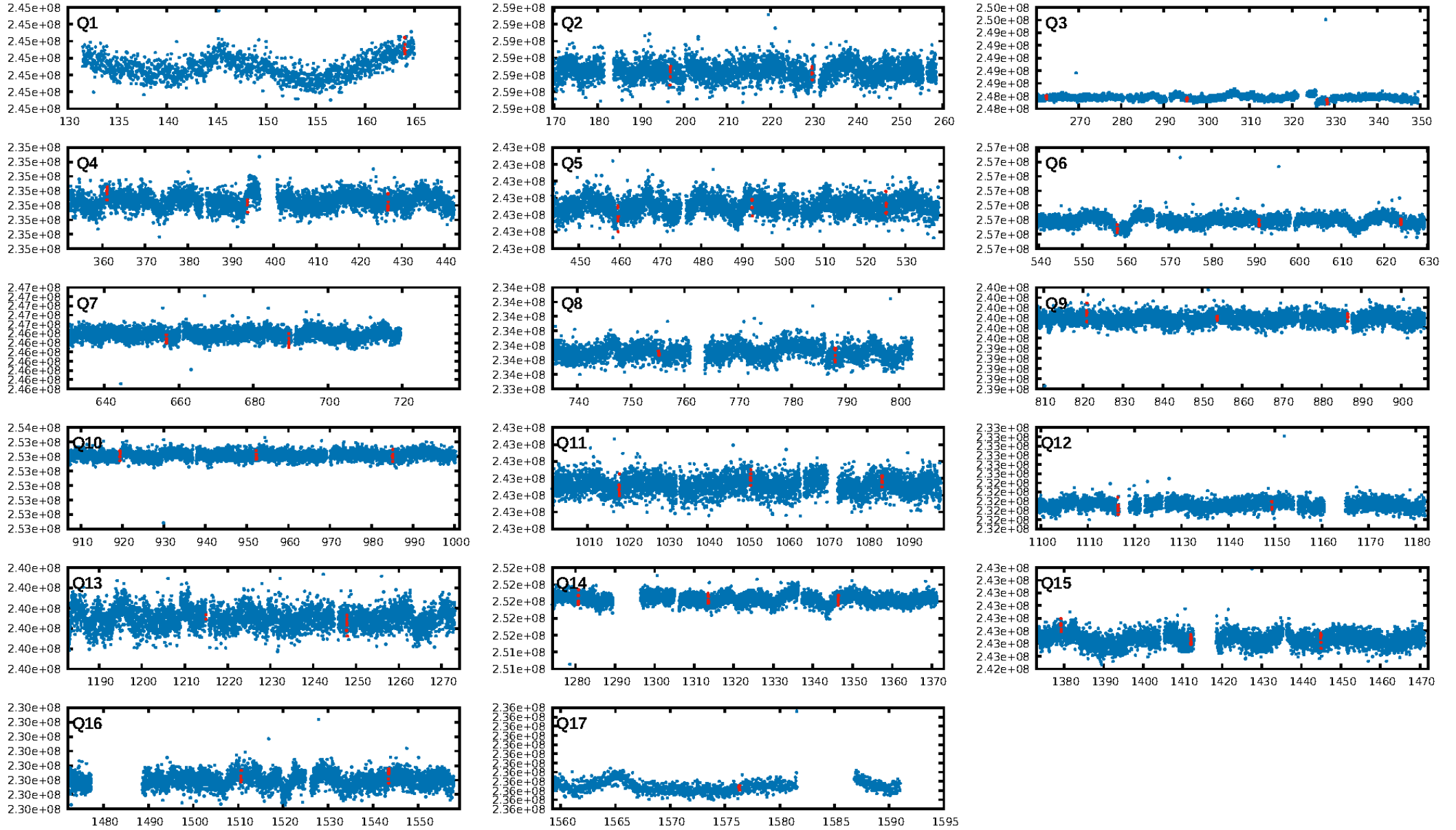
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [242.83σ]
LongPeriod-sig: 100.0% [10.71σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 53.5%
Bootstrap-pfa: 1.37e-11
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: -2.146
Centroid-sig: 39.4%
Centroid-so: 0.684 arcsec [1.10σ]
OotOffset-rm: 2.243 arcsec [1.37σ]
KicOffset-rm: 2.076 arcsec [1.21σ]
OotOffset-st: 2/4/1/4 [11]
KicOffset-st: 2/4/1/4 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 0.00 [0/17]

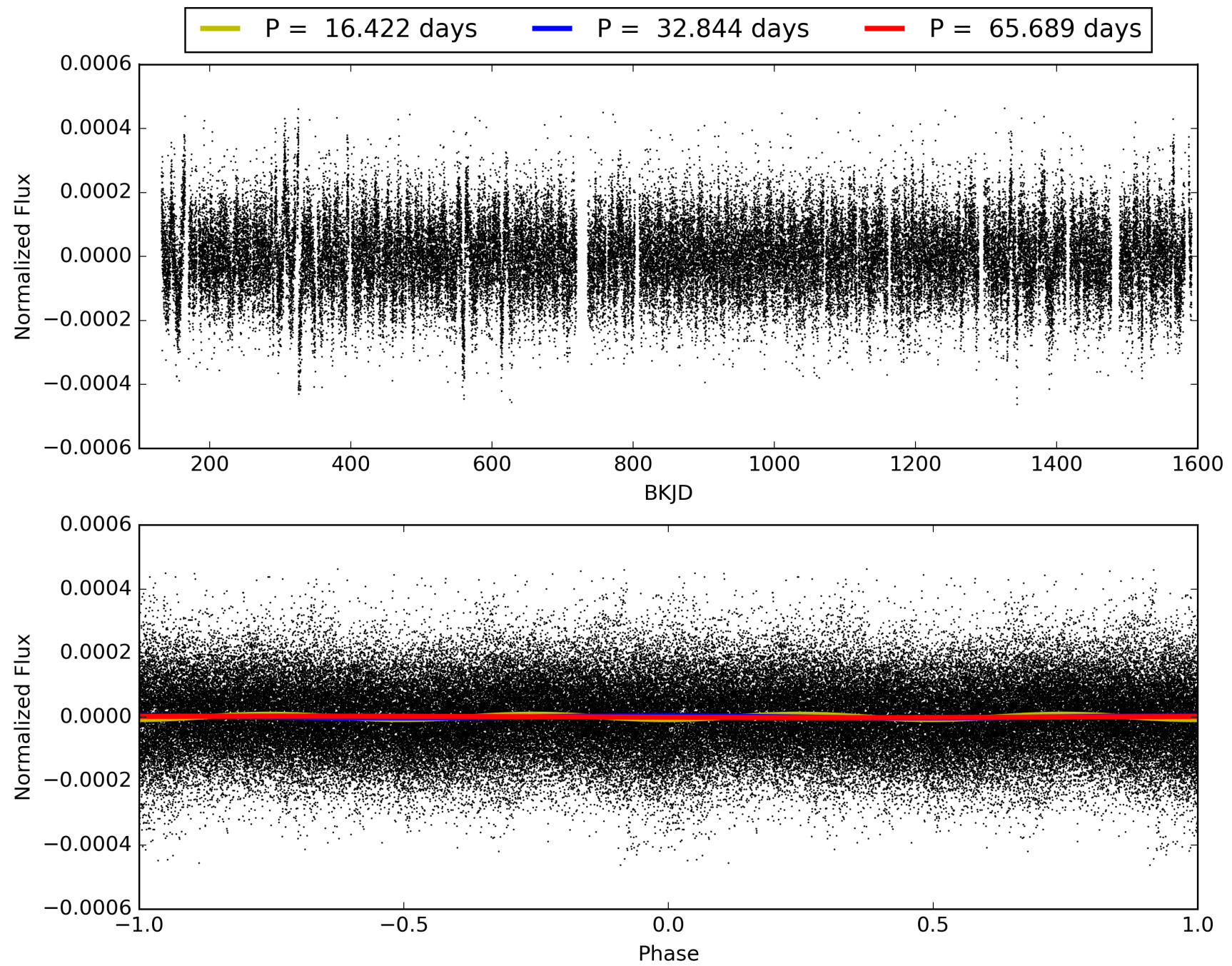
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:52:01 Z

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

TCE 007115925-03, PDC Light Curves

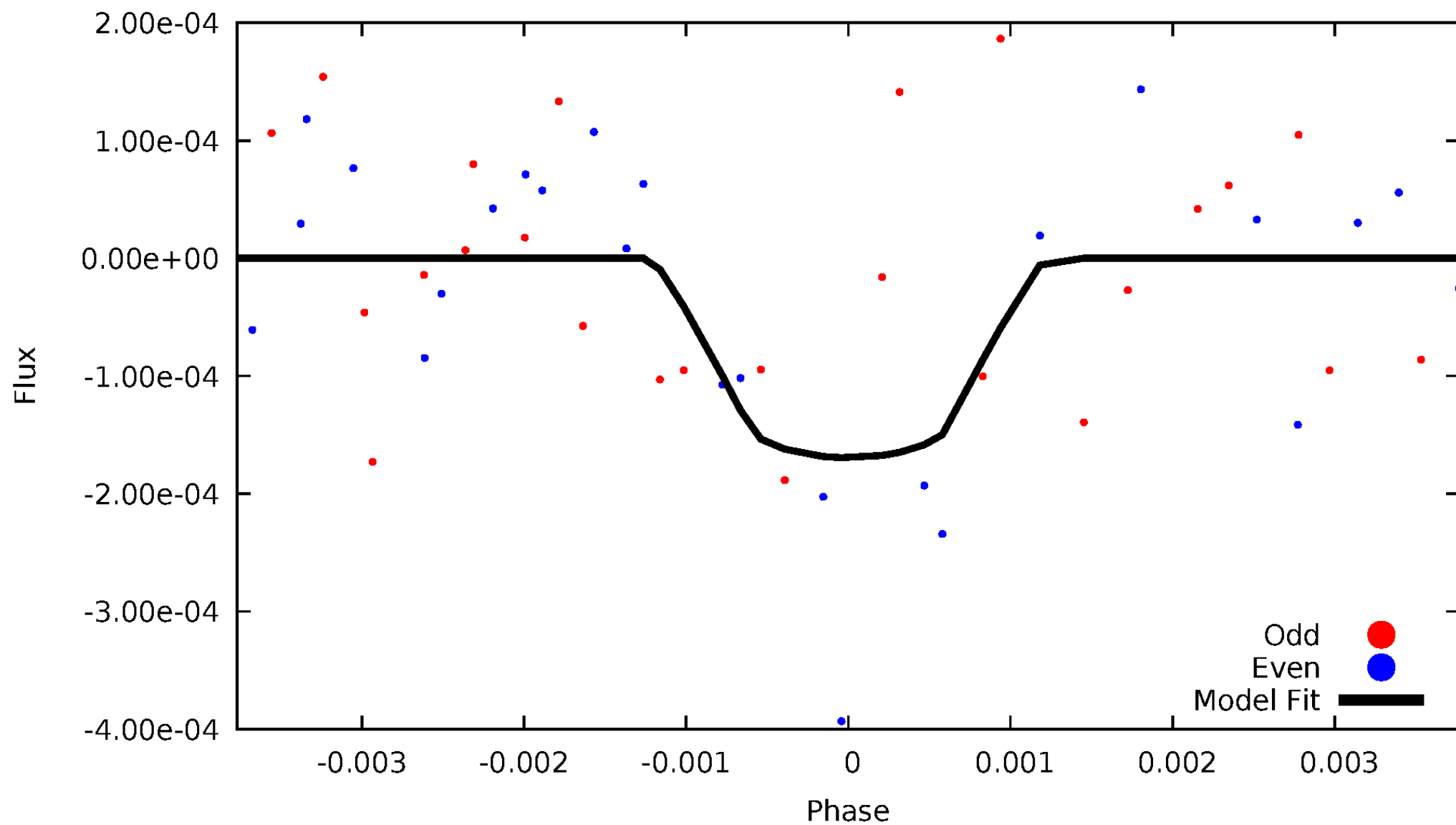


TCE 007115925-03



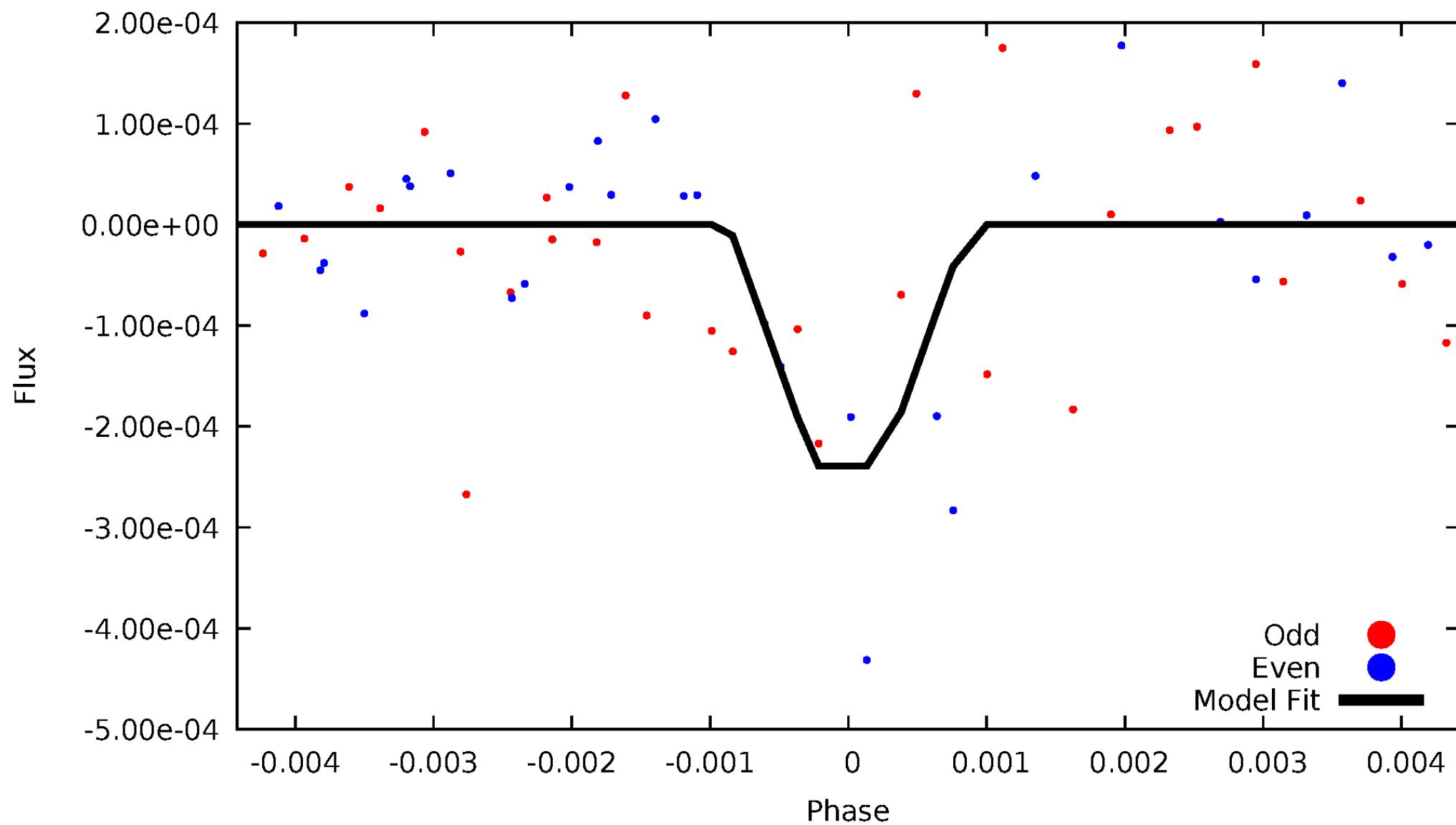
DV Odd/Even

TCE 007115925-03



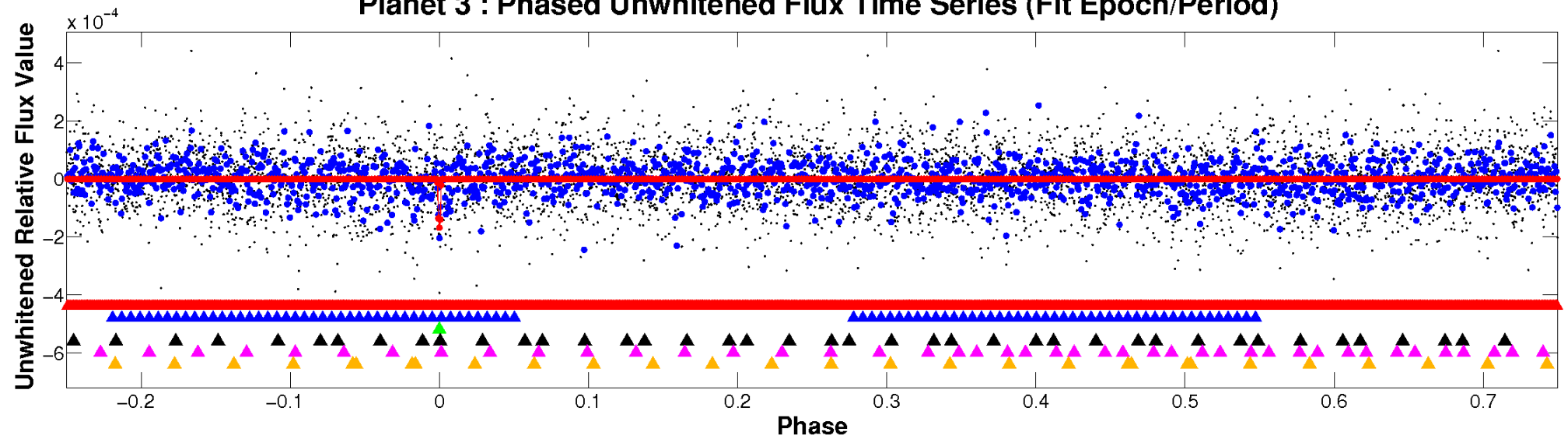
ALT Odd/Even

TCE 007115925-03

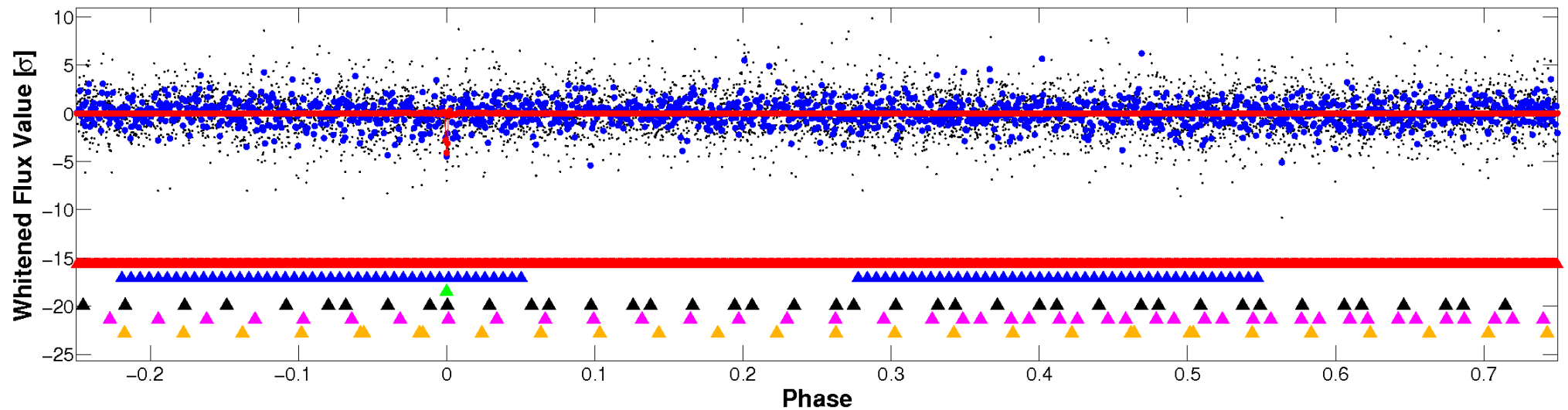


Non-Whitened Vs. Whitened Light Curve

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

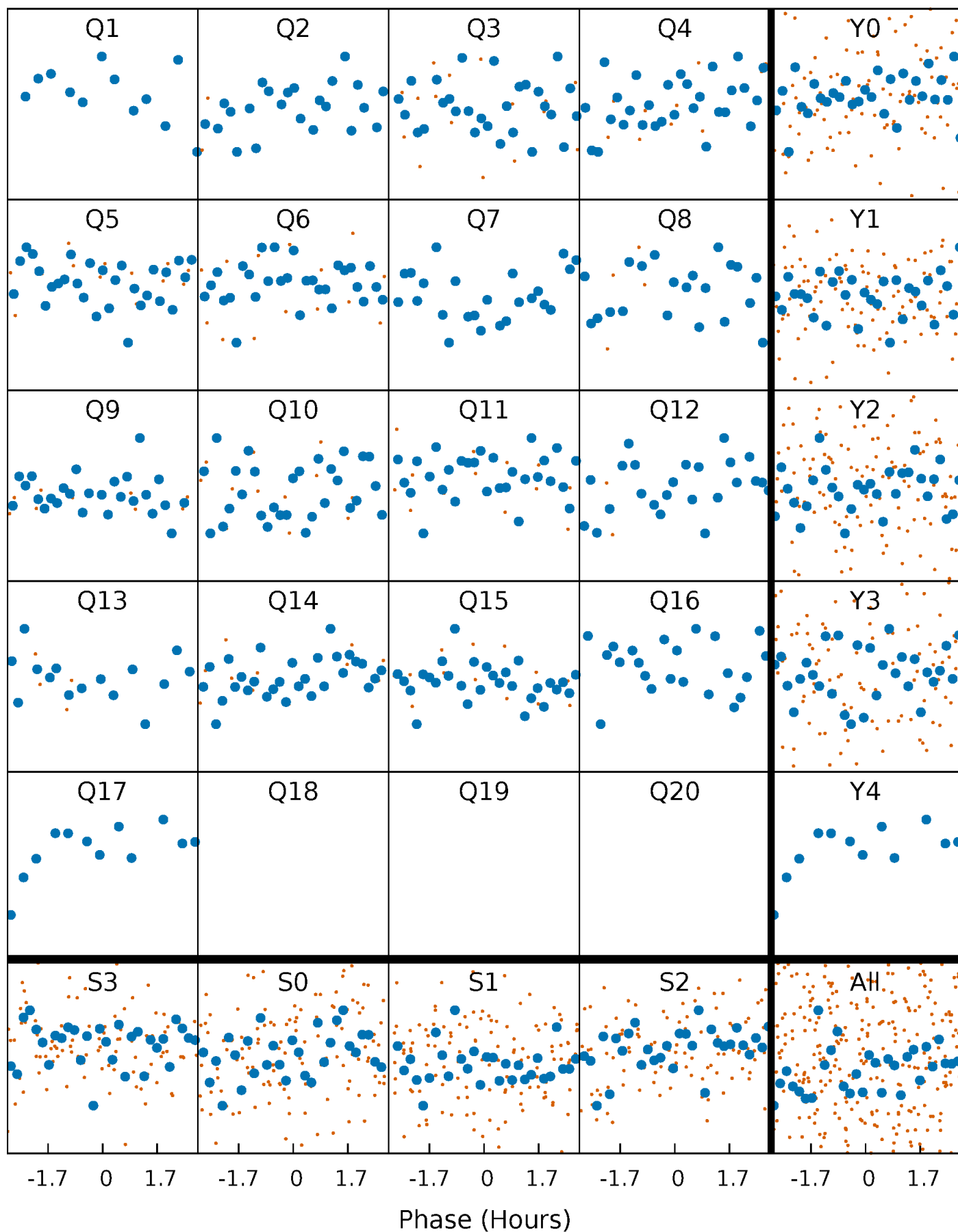


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



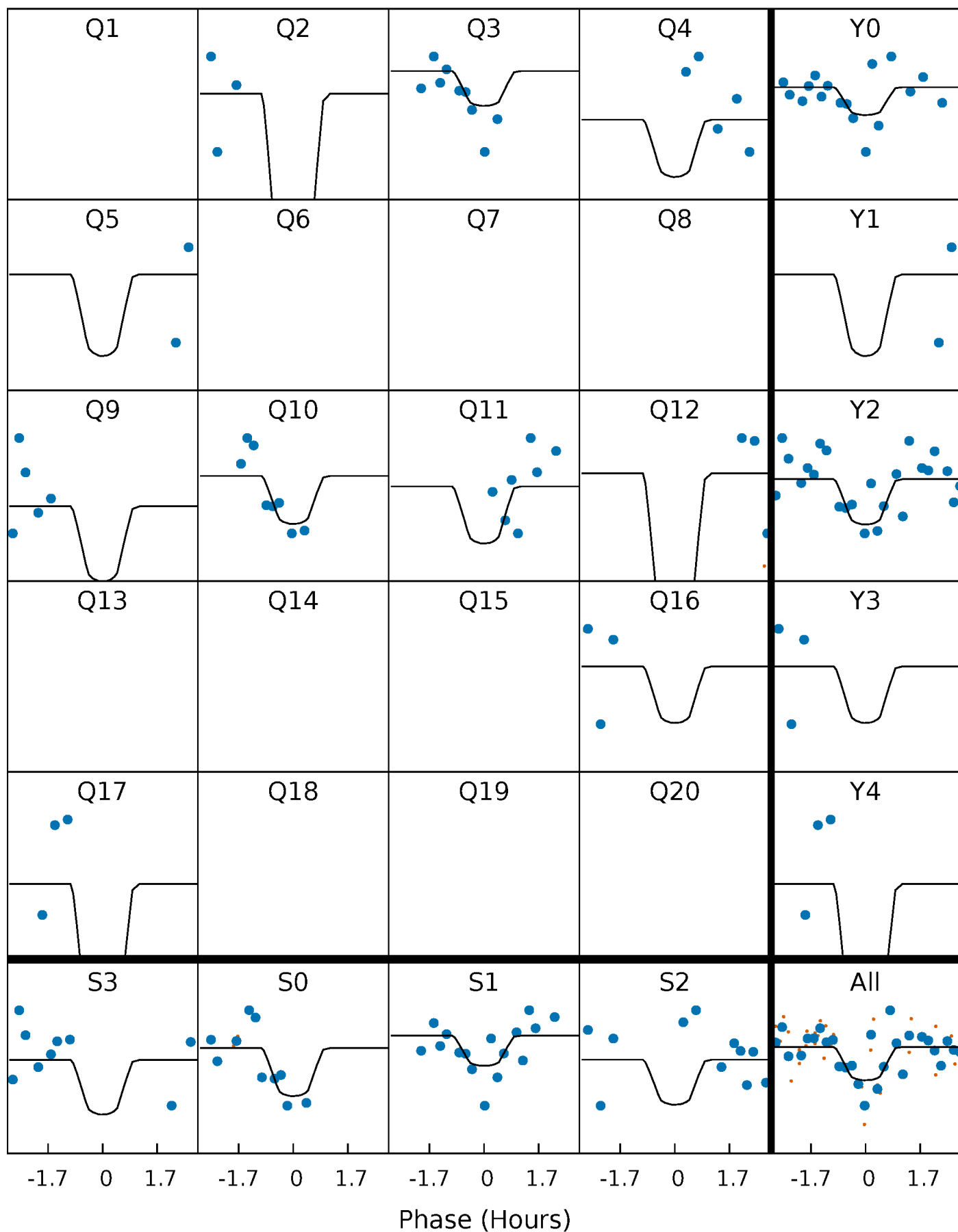
PDC Quarter-Phased Transit Curves

TCE 007115925-03 P= 32.844297 Days $T_0=164.004935$ (BKJD)



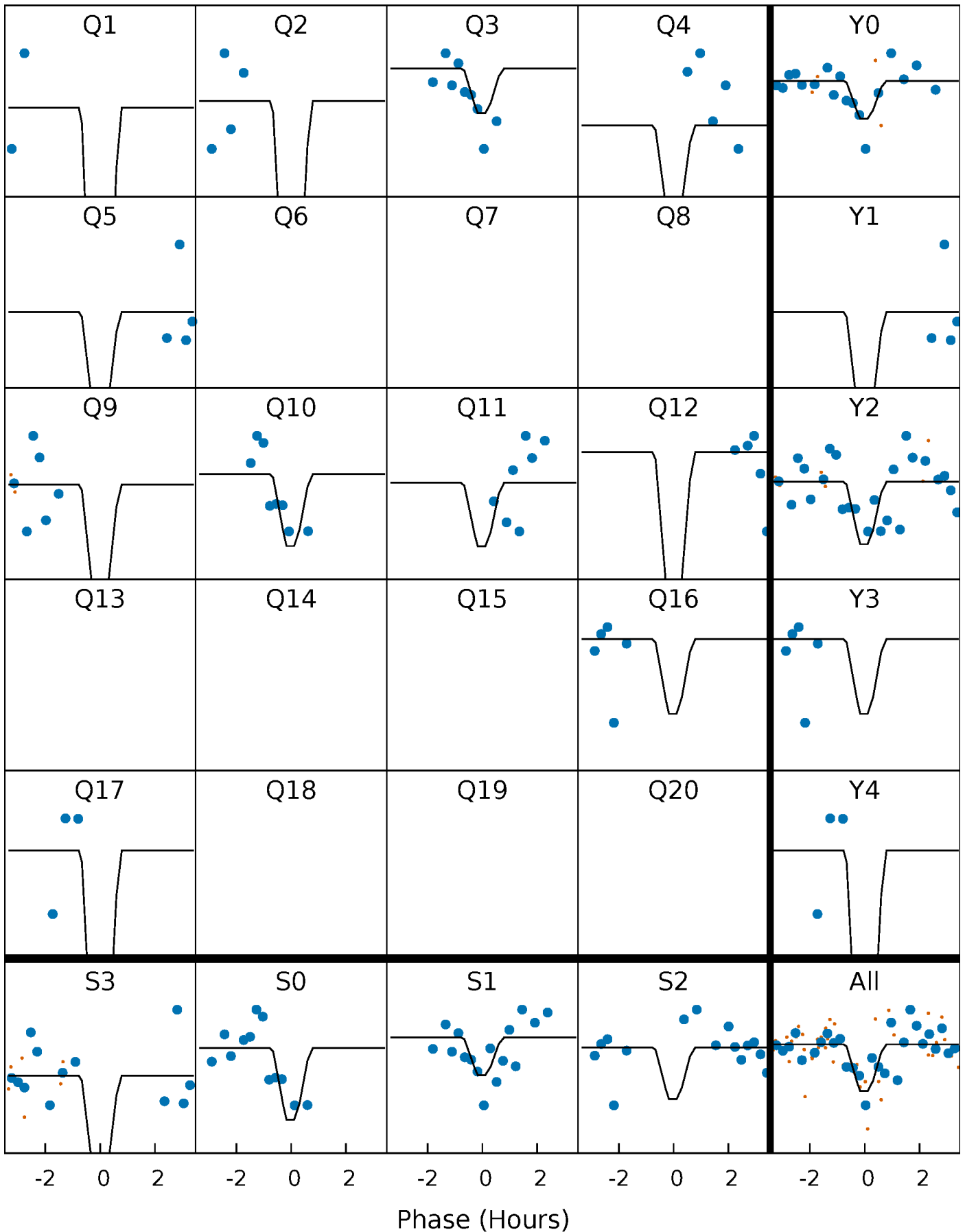
DV Quarter-Phased Transit Curves

TCE 007115925-03 P= 32.844297 Days $T_0=164.004935$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

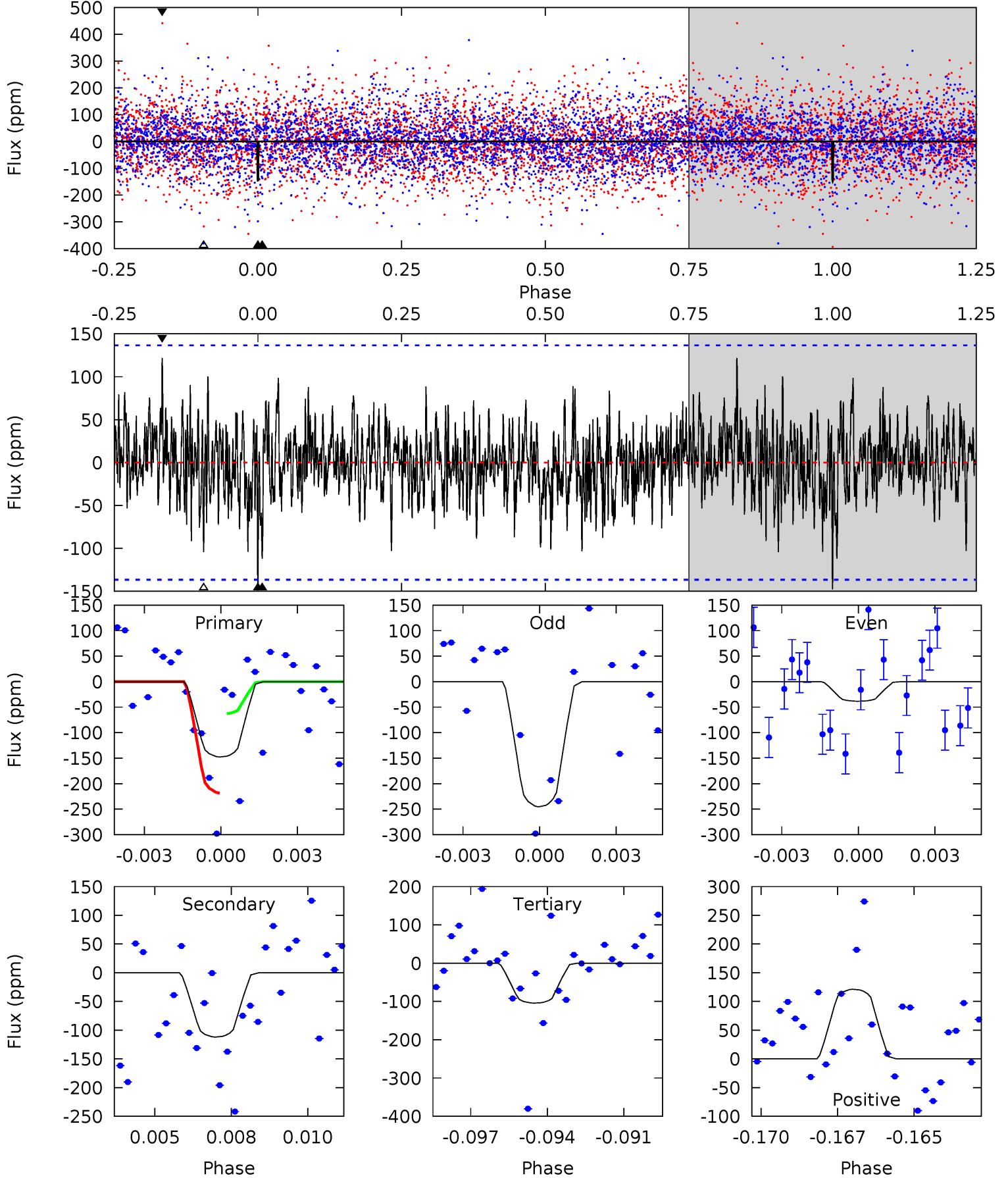
TCE 007115925-03 P= 32.844304 Days $T_0=163.999071$ (BKJD)



DV Model-Shift Uniqueness Test

007115925-03, P = 32.844297 Days, E = 131.160638 Days

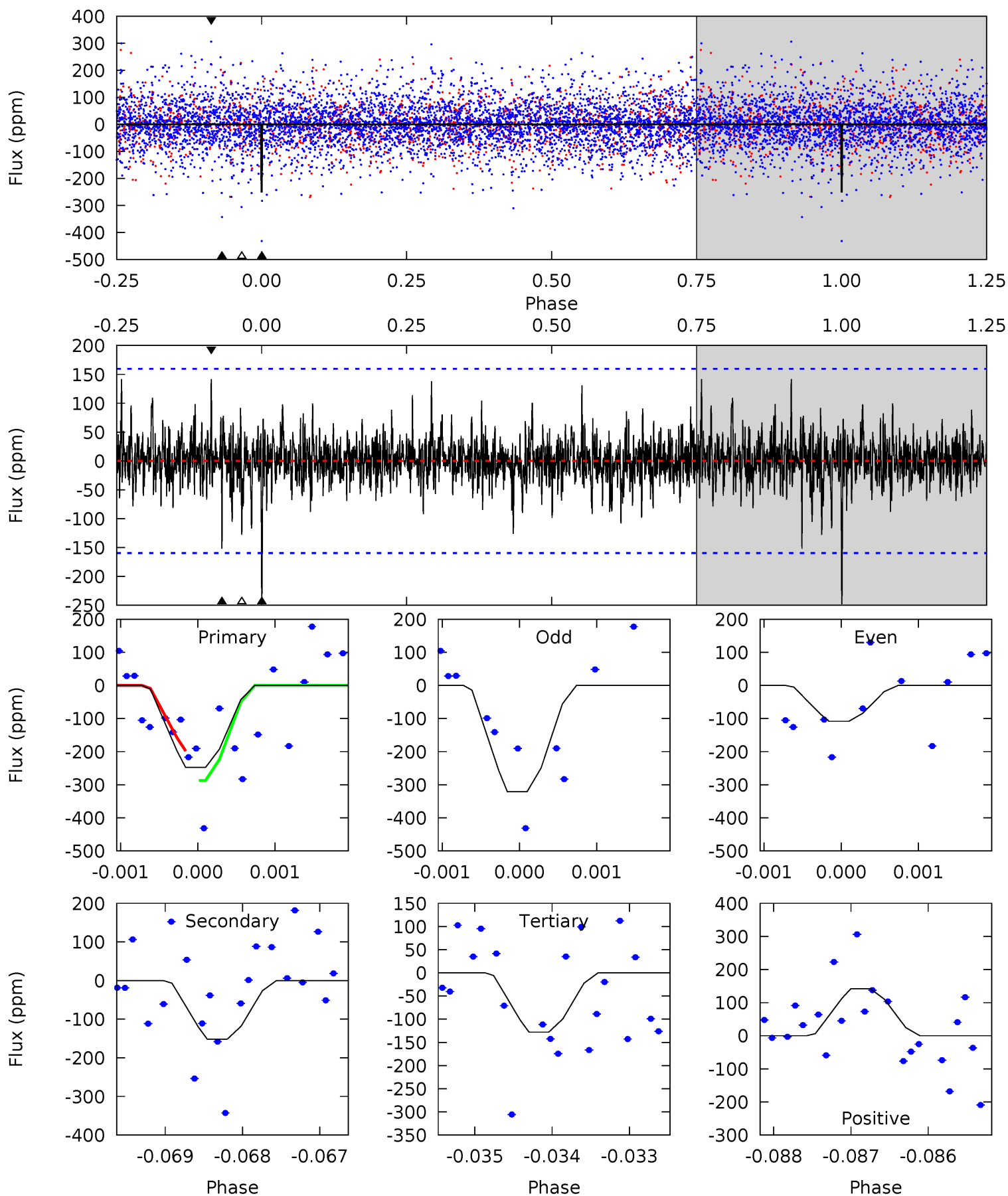
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.71	4.33	4.03	4.69	5.28	3.01	1.29	1.67	1.02	0.30	-0.36	4.16	0.72	0.45	3.02



Alt Model-Shift Uniqueness Test

007115925-03, P = 32.844304 Days, E = 131.154767 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.38	5.14	4.33	4.79	5.40	3.20	1.08	4.06	3.59	0.81	0.35	3.86	1.24	0.36	1.50



Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-112 ± 26	$4.52^{+4.93}_{-3.06}$	1077^{+70}_{-83}	4282^{+2892}_{-945}	130^{+1200}_{-99}
Alt.	-152 ± 30	$4.82^{+4.62}_{-3.12}$	1082^{+72}_{-77}	4491^{+2490}_{-973}	162^{+1131}_{-118}

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

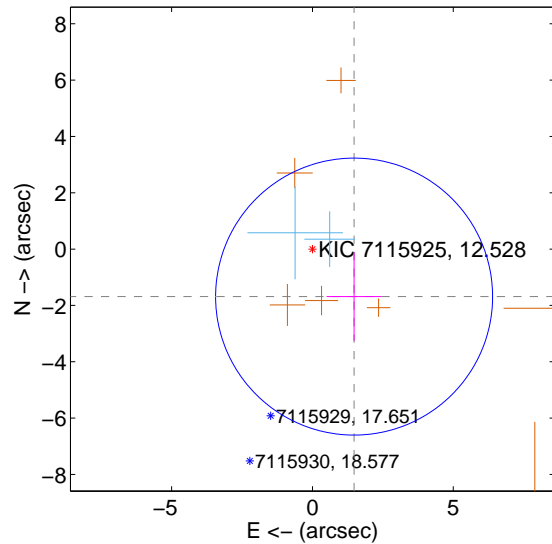
Supplemental centroid analysis for 007115925-03. Kepler magnitude: 12.53. Transit SNR 10.32

There are 2 quarters with good PRF difference image offsets

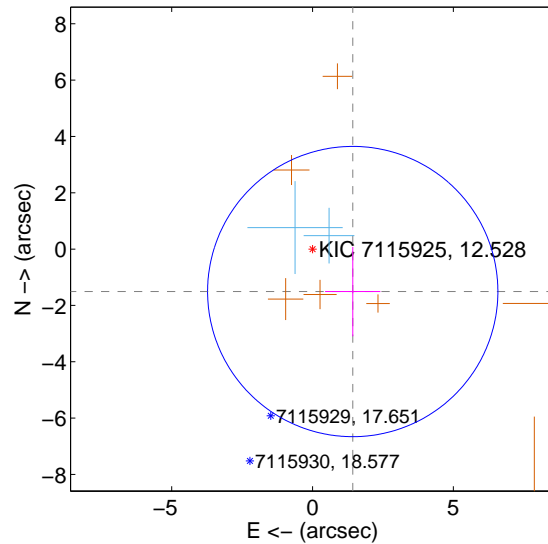
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.243 ± 1.639	1.37	-1.479 ± 0.977	-1.686 ± 1.569
PRF-fit source offset from KIC position	2.076 ± 1.718	1.21	-1.427 ± 0.982	-1.507 ± 1.588
photometric centroid source offset	0.68 ± 0.62	1.10	0.18 ± 0.67	0.66 ± 0.62

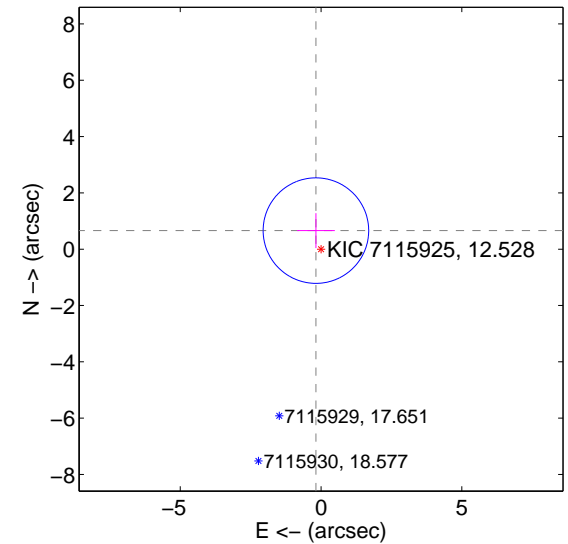
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

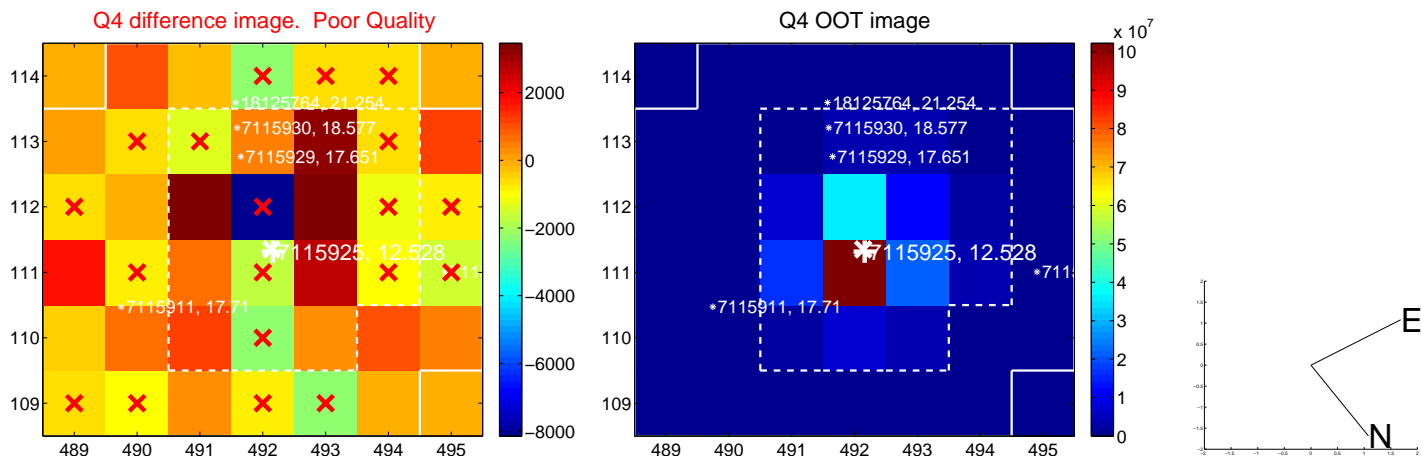
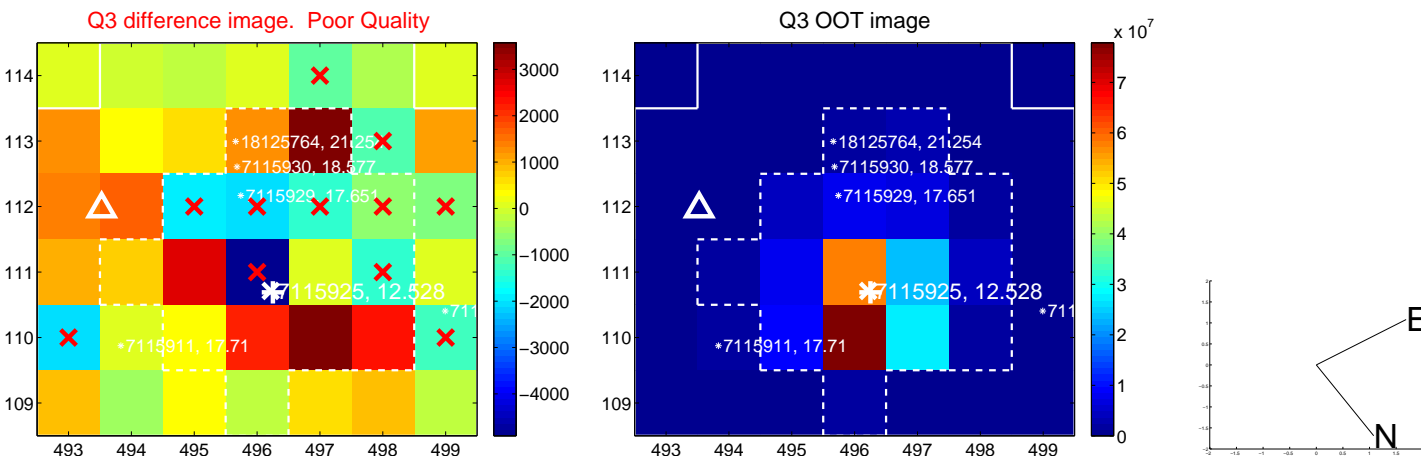
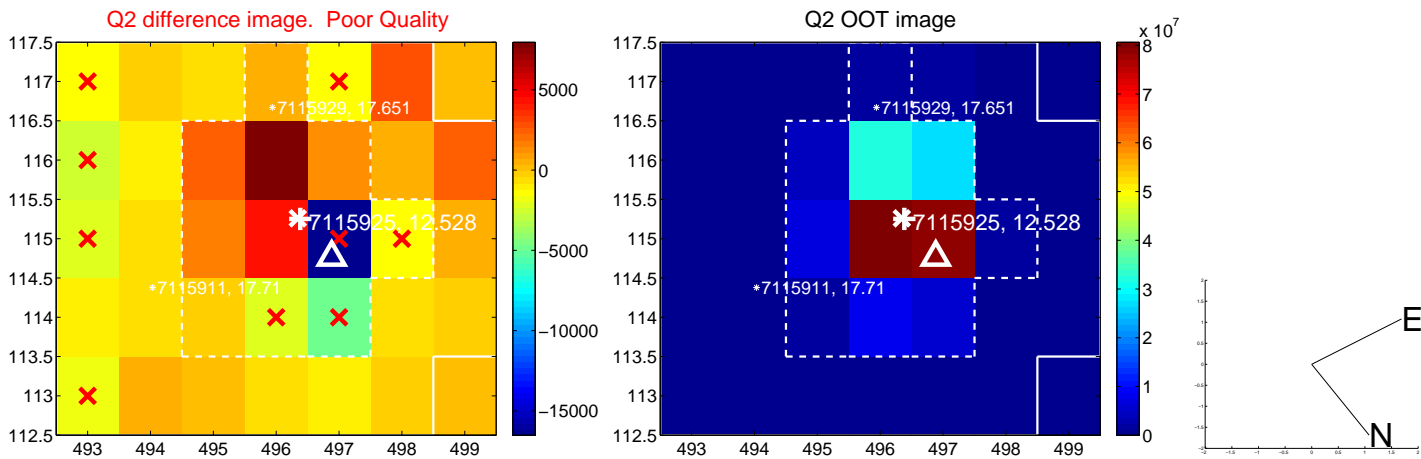
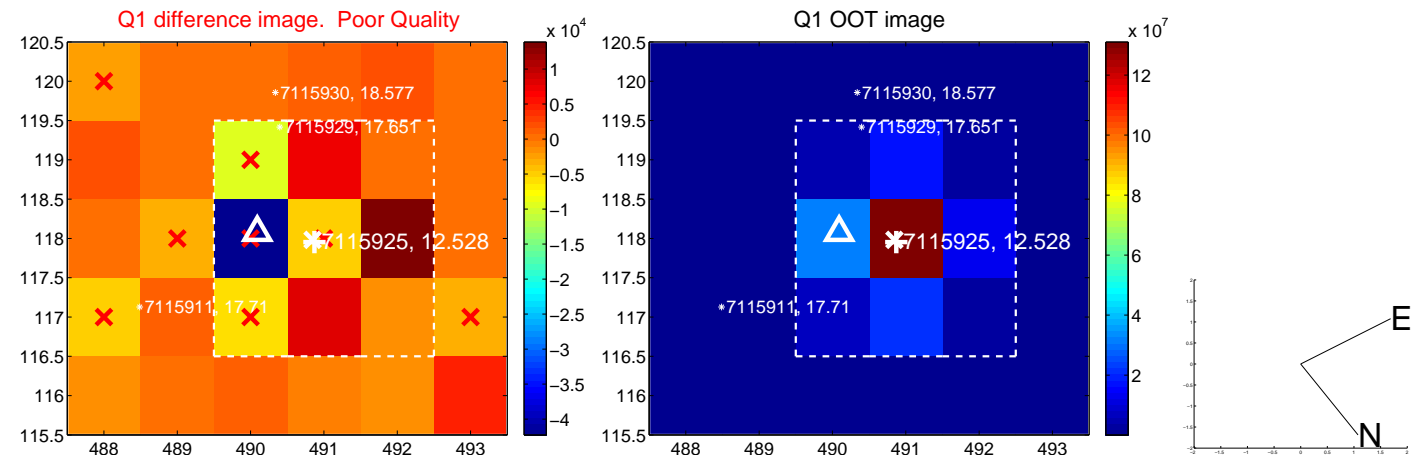


offset from photometric centroids

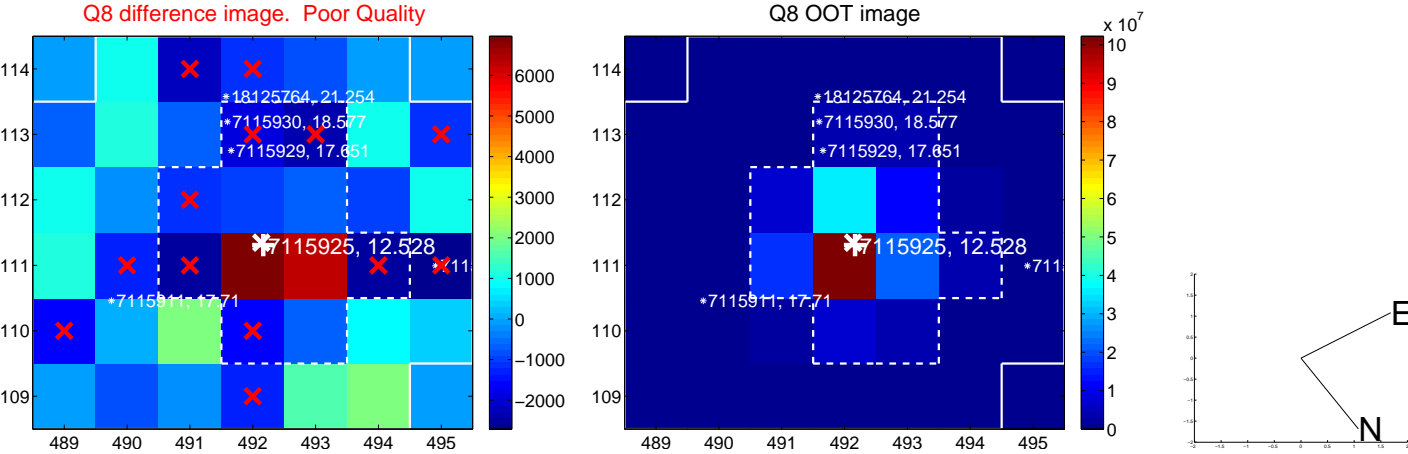
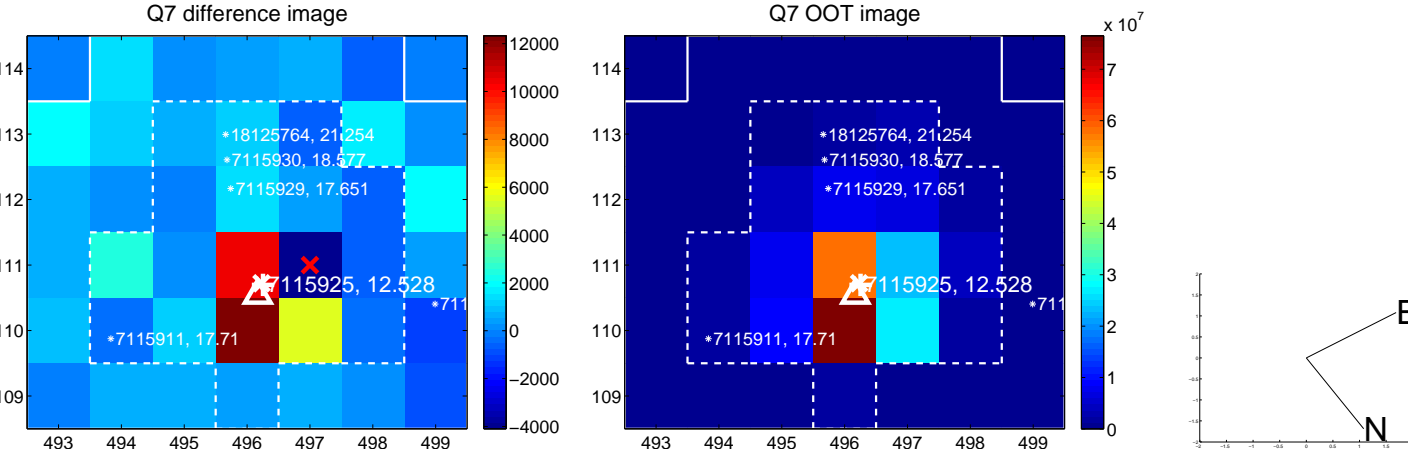
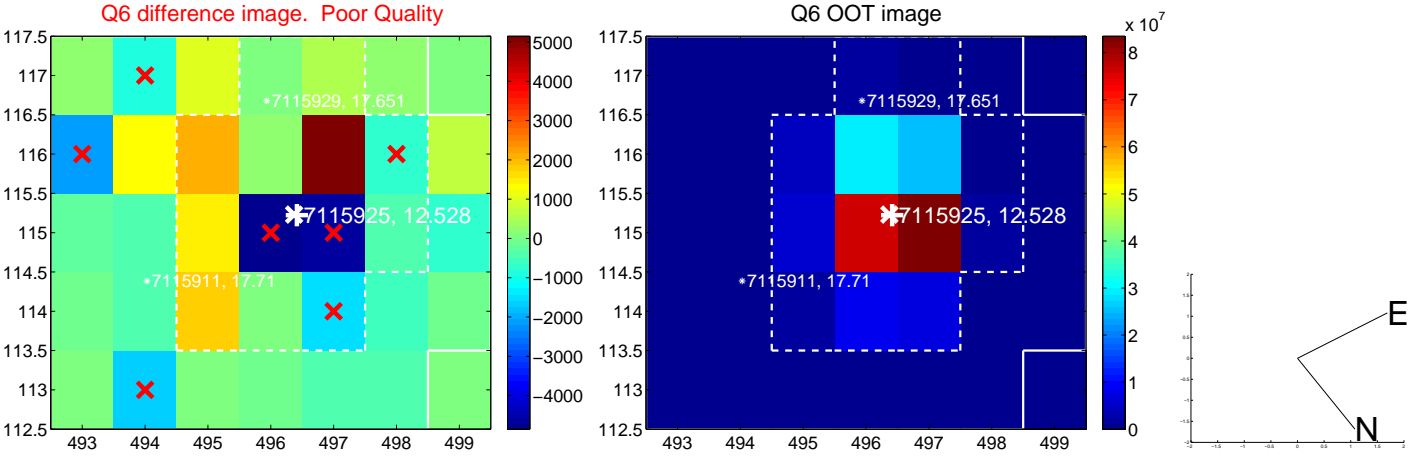
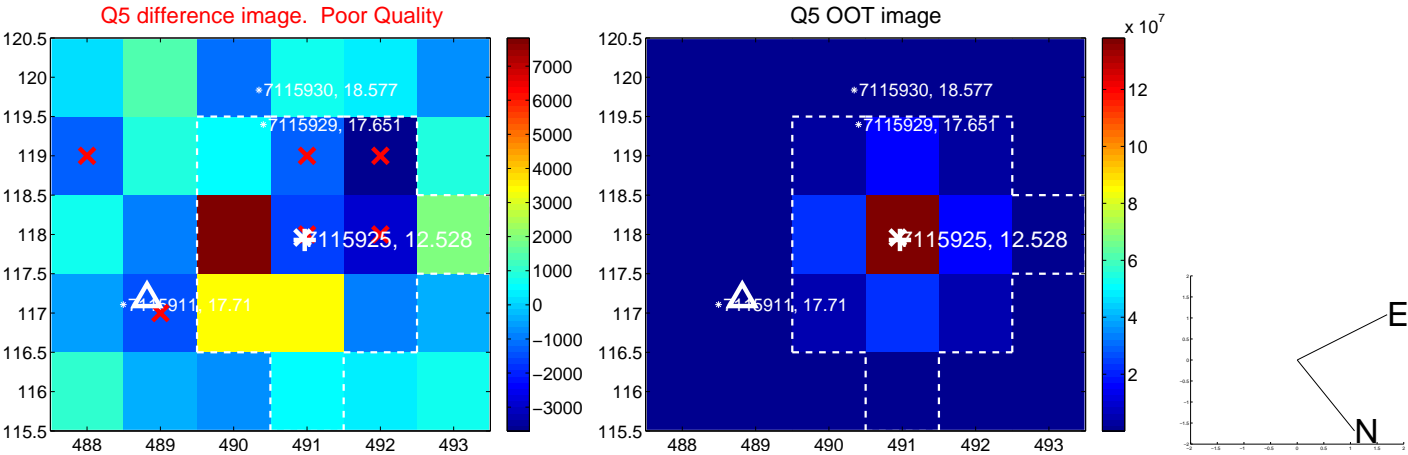


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

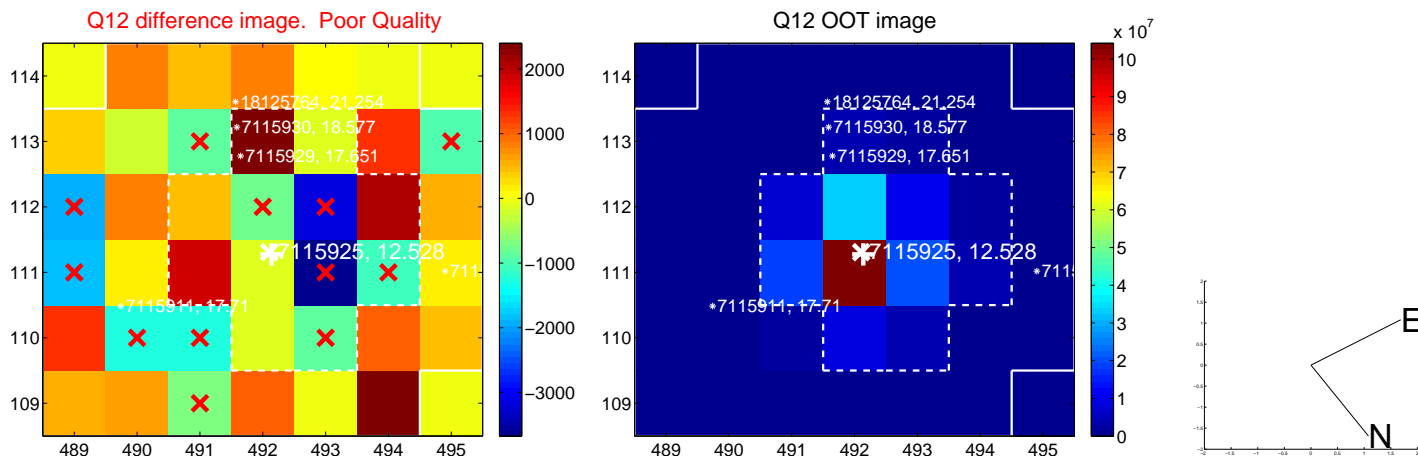
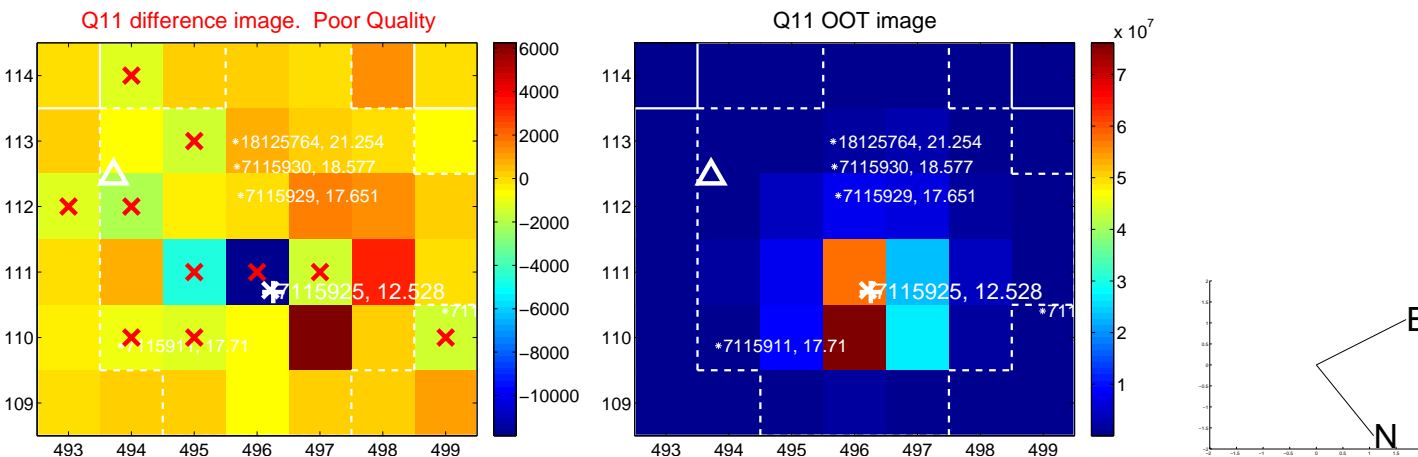
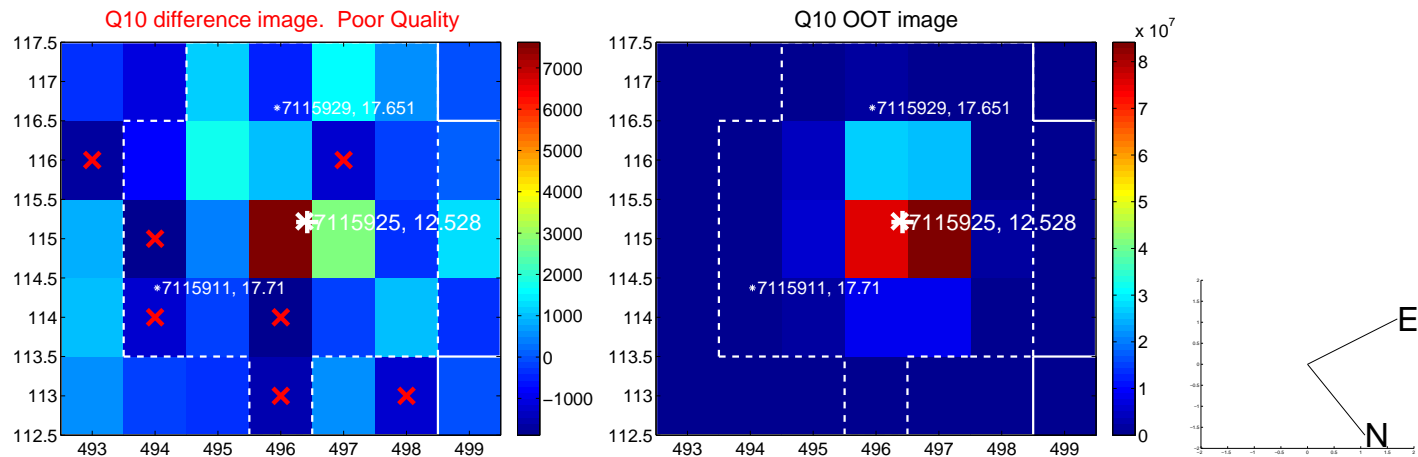
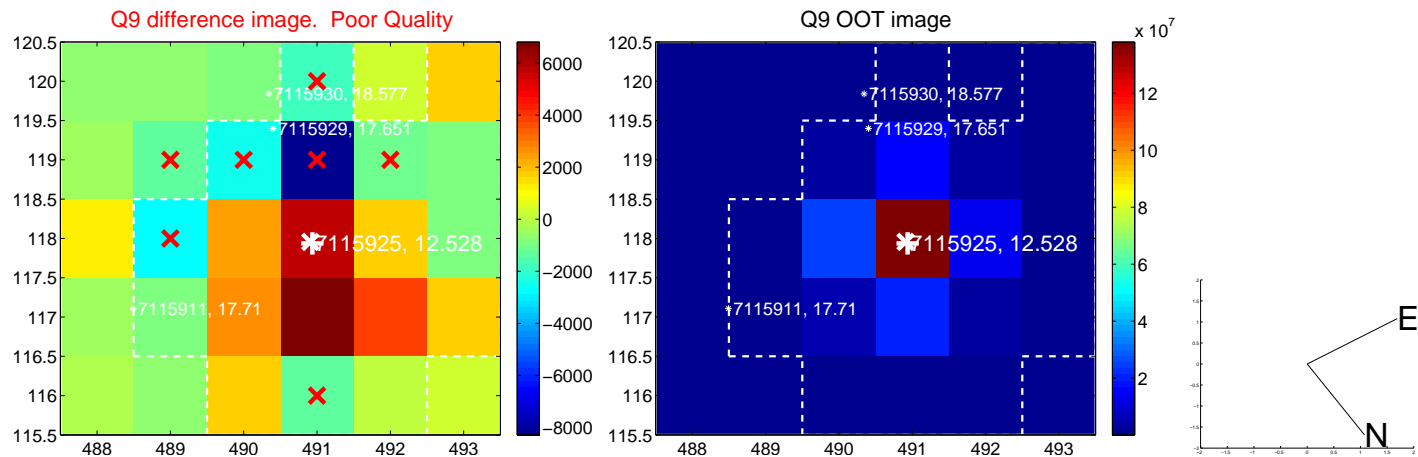
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



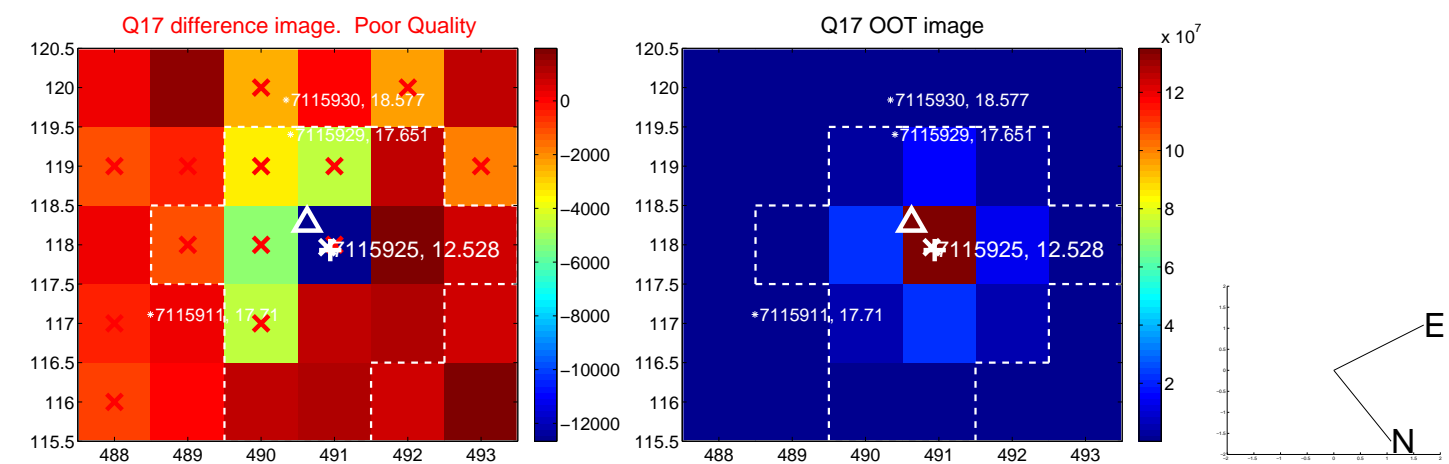
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



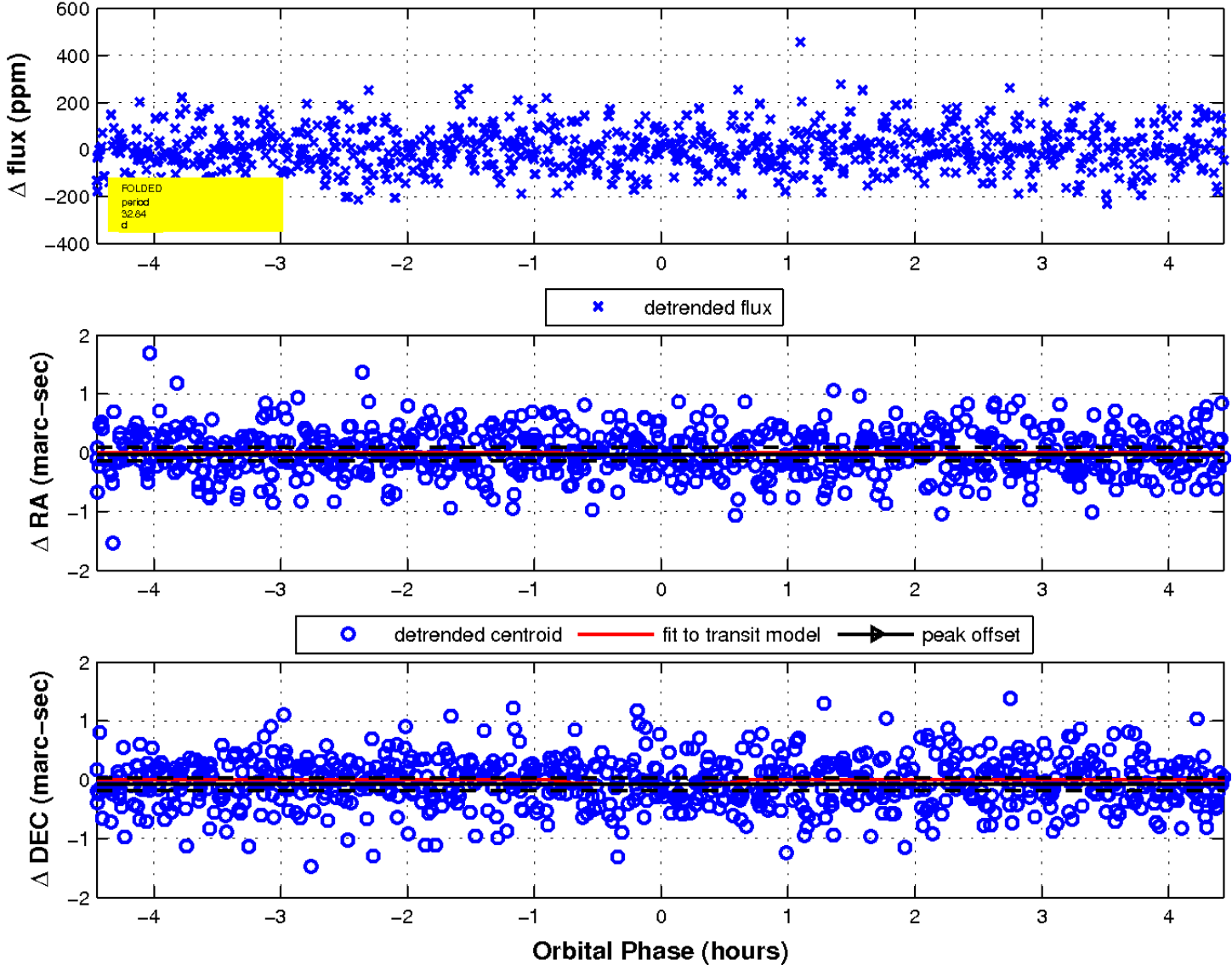
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

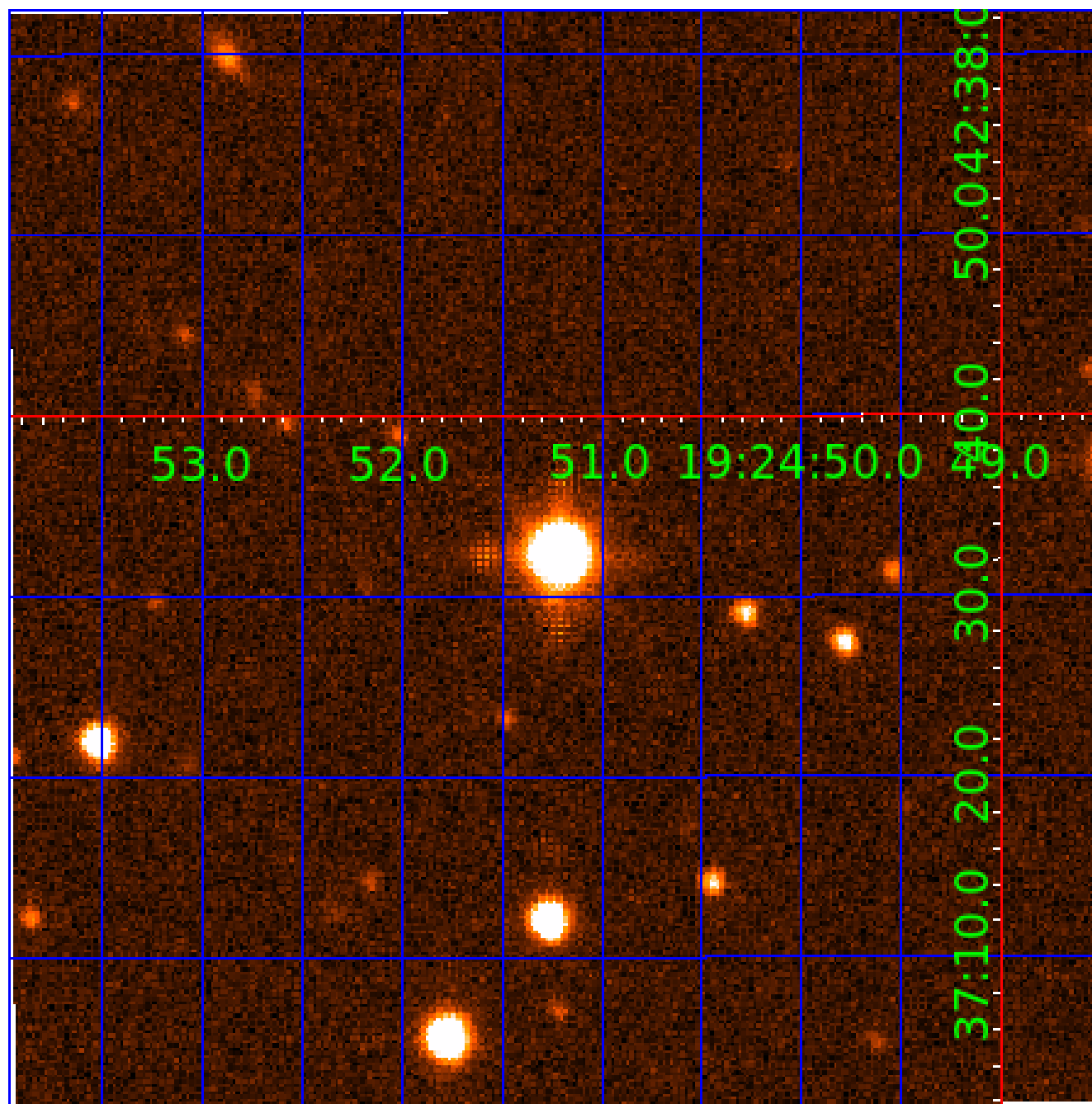


fluxWeightedCentroids, Planet 3 of 6



UKIRT Image

Declination



KIC 007115925

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})
007115925-01	OBS	4258.01	0.566768	131.837309	7.9	3.963	13.4	9.0	1.69	6287	0.51	19644.11
007115925-02	OBS	No	16.321569	132.814450	226.3	0.680	11.2	10.7	1.69	6287	2.60	222.55
007115925-03	OBS	No	32.844297	164.004936	169.4	1.485	12.9	10.3	1.69	6287	2.46	87.60
007115925-04	OBS	No	35.096107	161.770551	205.6	1.013	10.1	10.5	1.69	6287	2.74	80.19
007115925-05	OBS	No	33.916479	142.603613	144.5	1.890	10.8	10.1	1.69	6287	2.26	83.92
007115925-06	OBS	No	49.920369	162.170442	189.6	1.481	10.9	11.4	1.69	6287	2.36	50.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007115925-01	OBS	FP	0.00	1	0	0	1	LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007115925-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
007115925-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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

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

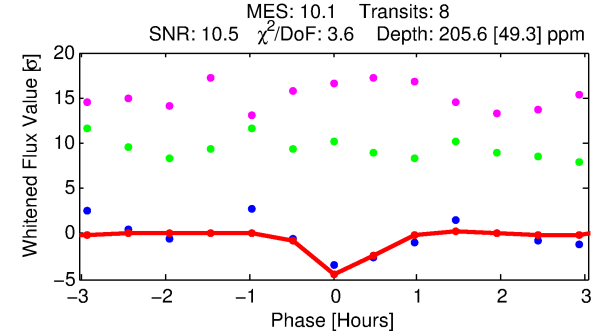
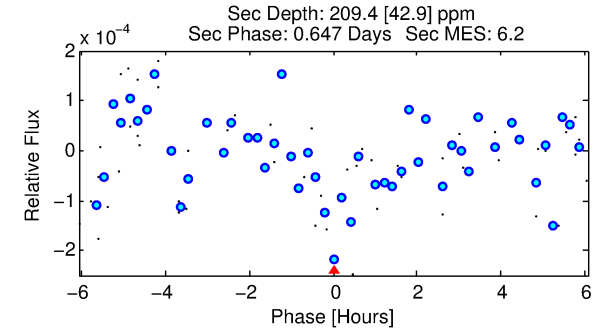
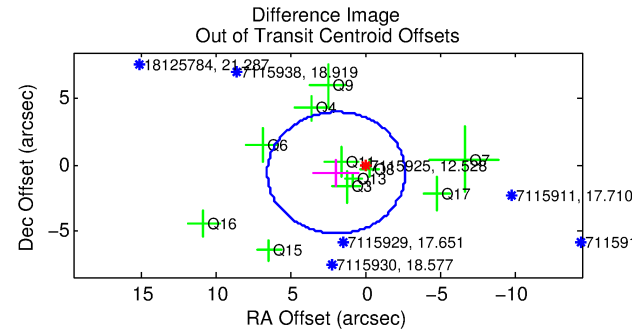
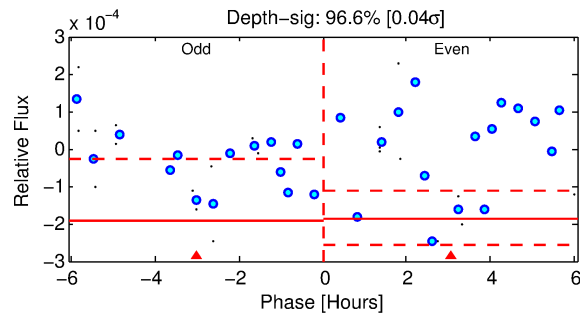
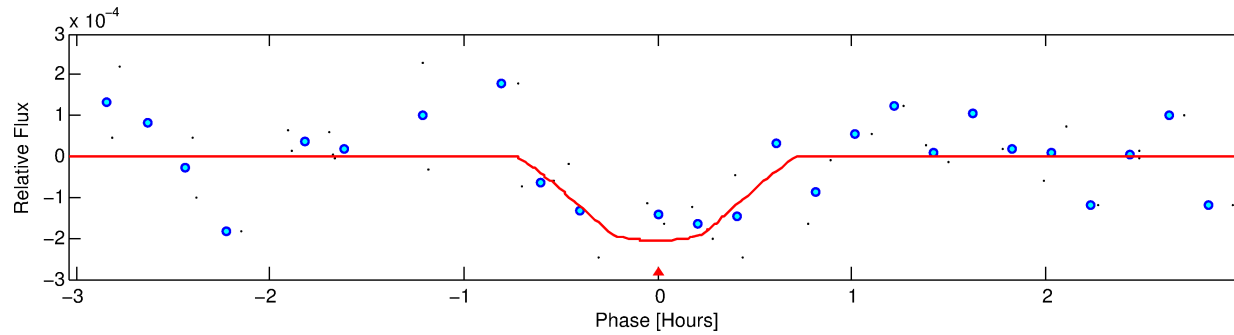
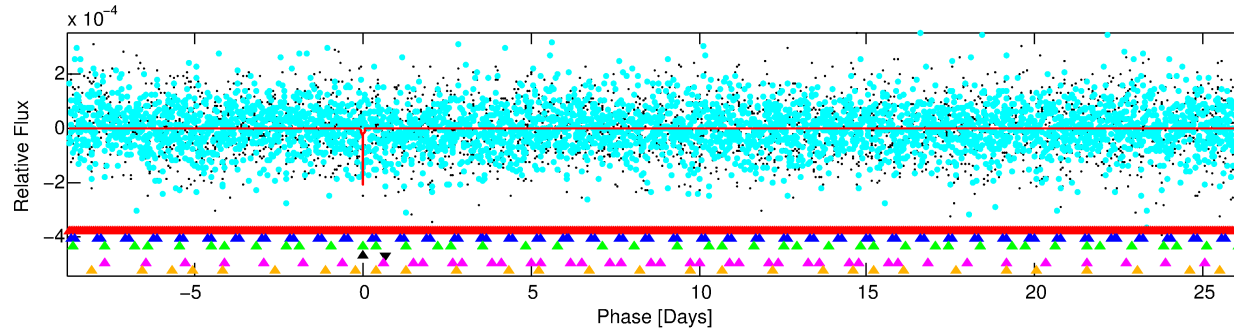
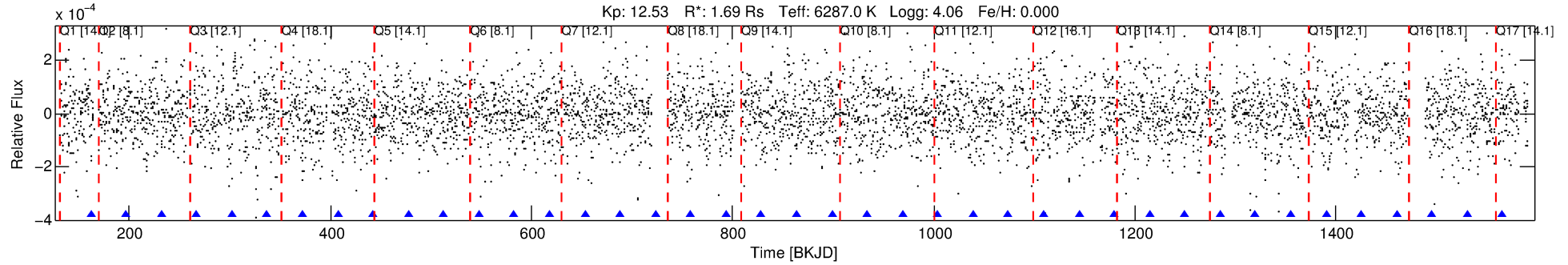
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007115925-04

No Significant Match Found

DV One-Page Summary

KIC: 7115925 Candidate: 4 of 6 Period: 35.096 d
KOI: K04258 Corr: No Ephemeris Match



DV Fit Results:

Period = 35.09611 [0.00037] d
Epoch = 161.7706 [0.0073] BKJD
Rp/R* = 0.0149 [0.0167]
a/R* = 154.53 [863.82]
b = 0.83 [2.17]
Seff = 80.19 [33.00]
Teq = 763 [78] K
Rp = 2.74 [3.16] Re
a = 0.2237 [0.0562] AU
Ag = 765.28 [1749.21] [0.44 σ]
Teffp = 6205 [3498] K [1.56 σ]

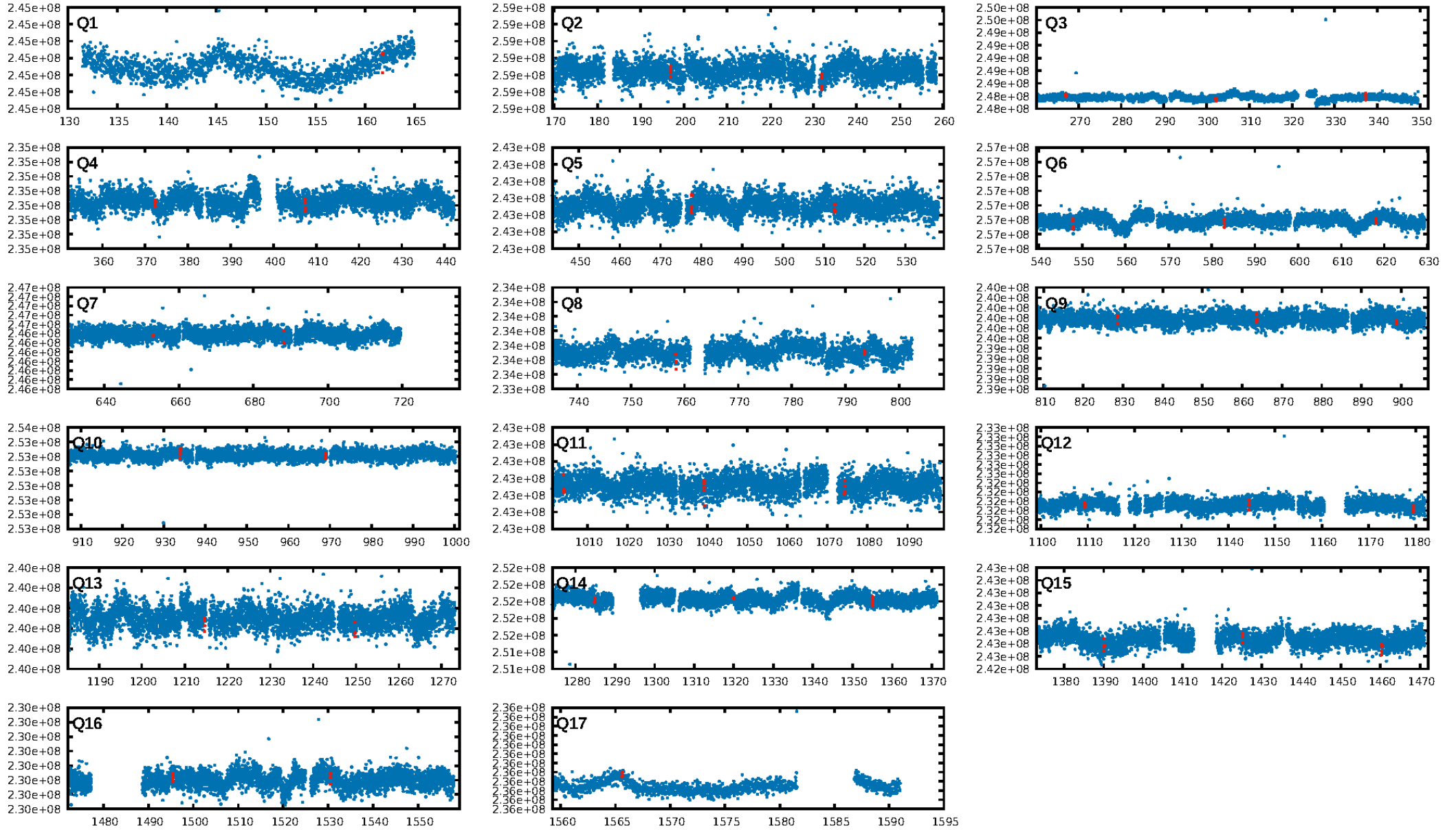
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [13.20 σ]
LongPeriod-sig: 100.0% [198.24 σ]
ModelChiSquare2-sig: 1.7%
ModelChiSquareGof-sig: 29.4%
Bootstrap-pfa: 7.82e-08
RollingBand-fgt: 1.00 [8/8]
GhostDiagnostic-chr: -0.4594
Centroid-sig: 0.0%
Centroid-so: 1.974 arcsec [3.03 σ]
OotOffset-rm: 2.015 arcsec [1.31 σ]
KicOffset-rm: 2.000 arcsec [1.42 σ]
OotOffset-st: 1/4/3/3 [11]
KicOffset-st: 1/4/3/3 [11]
DiffImageQuality-fgm: 0.18 [2/11]
DiffImageOverlap-fno: 0.00 [0/17]

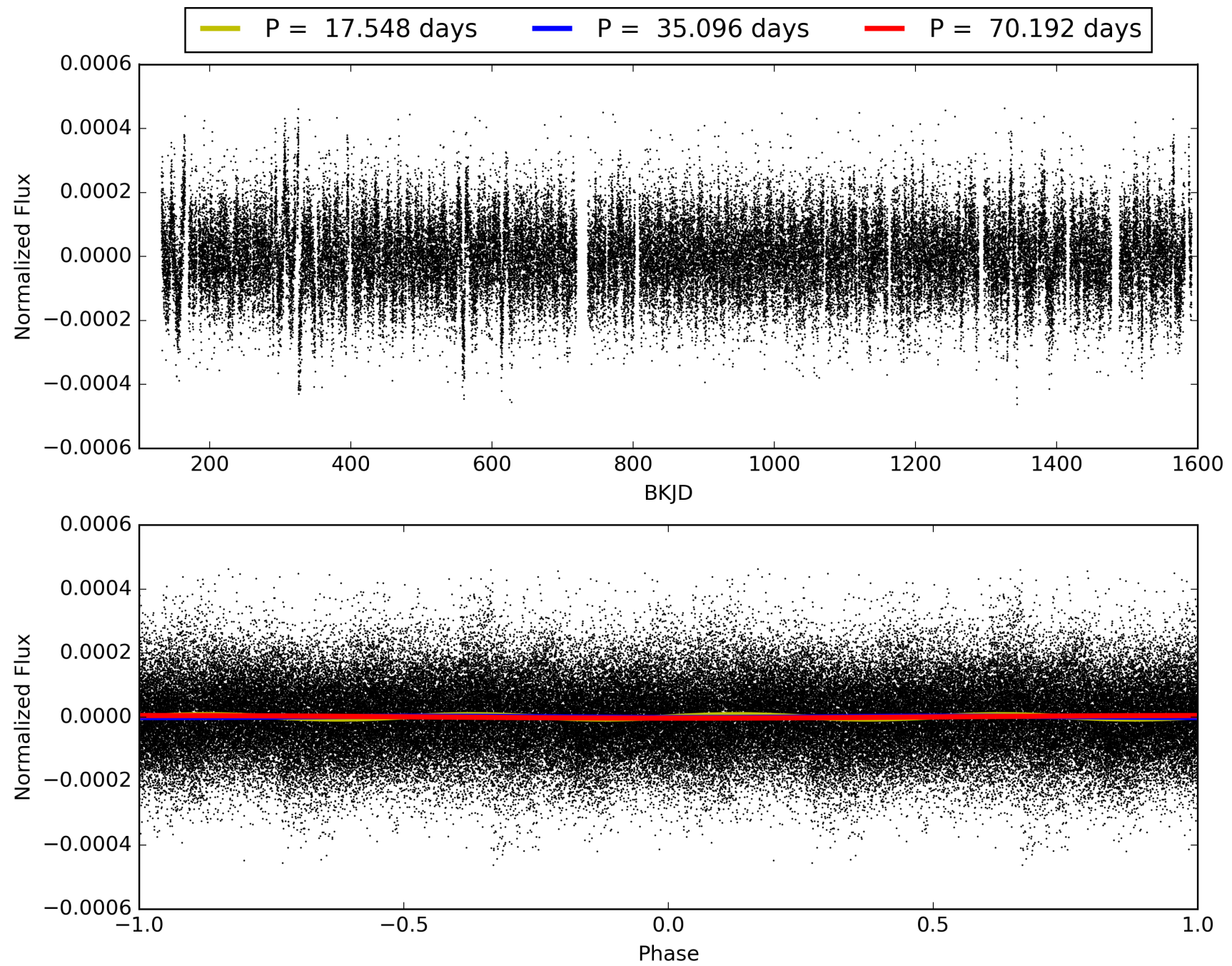
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:52:05 Z

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

TCE 007115925-04, PDC Light Curves

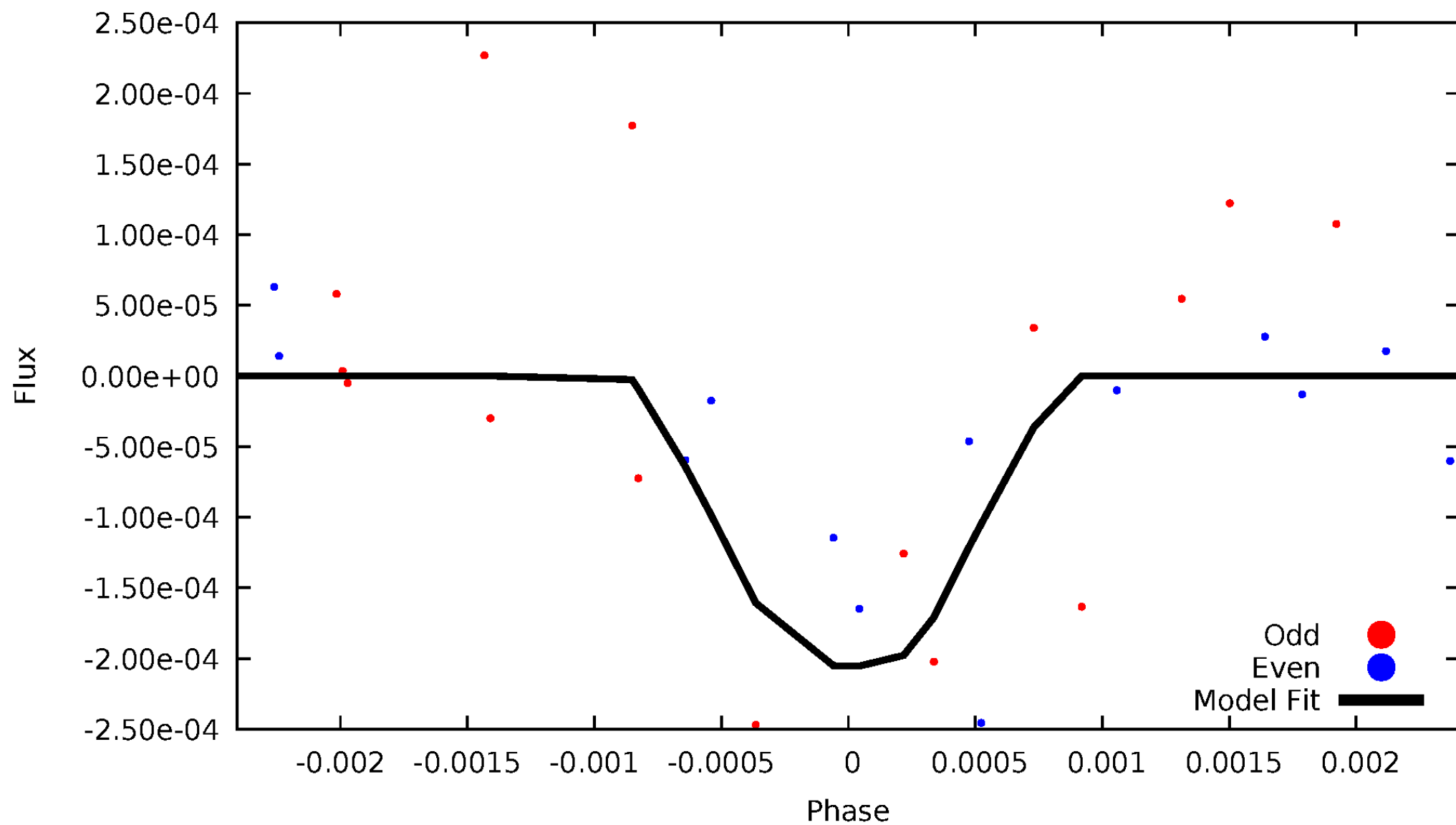


TCE 007115925-04



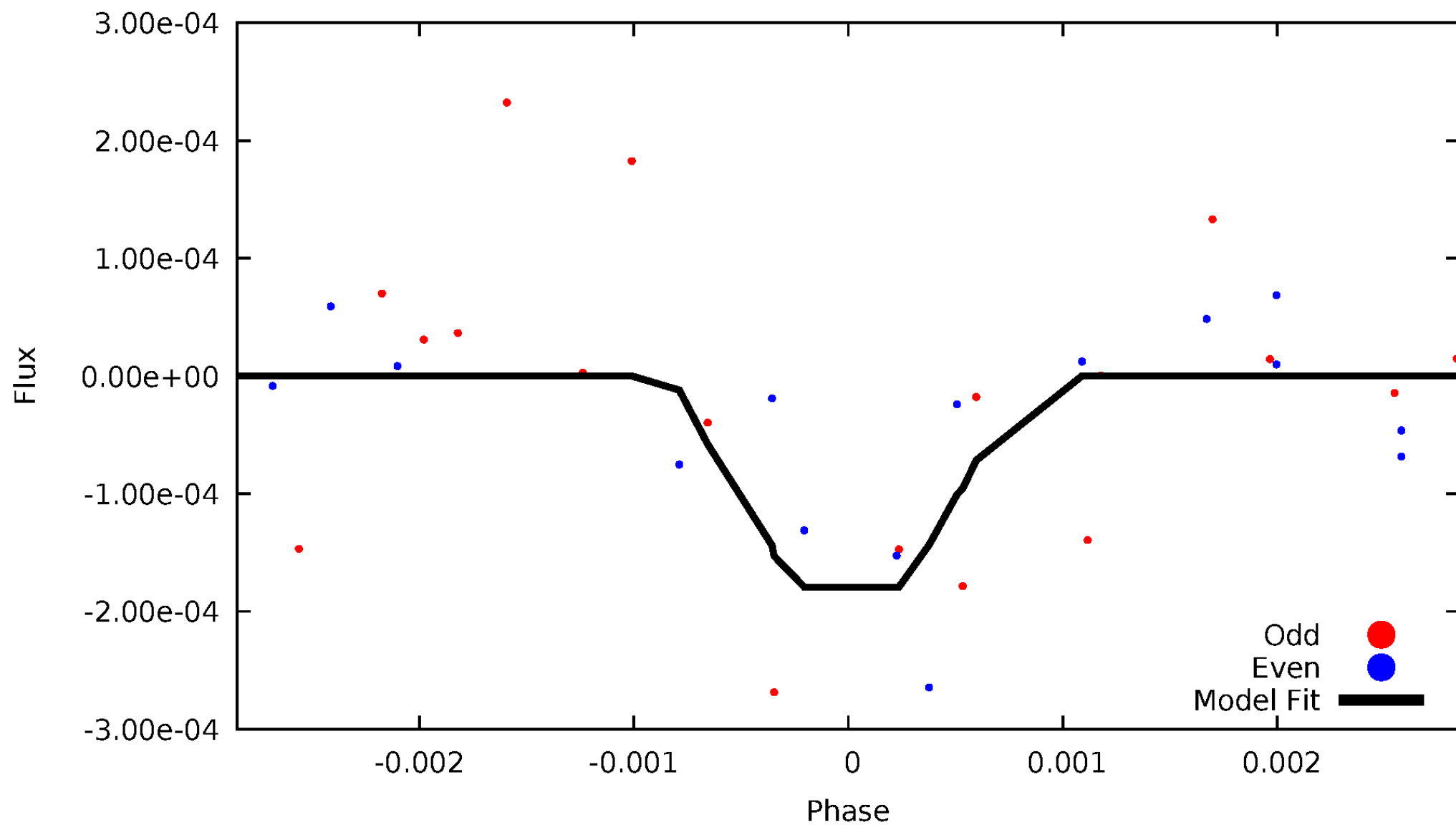
DV Odd/Even

TCE 007115925-04



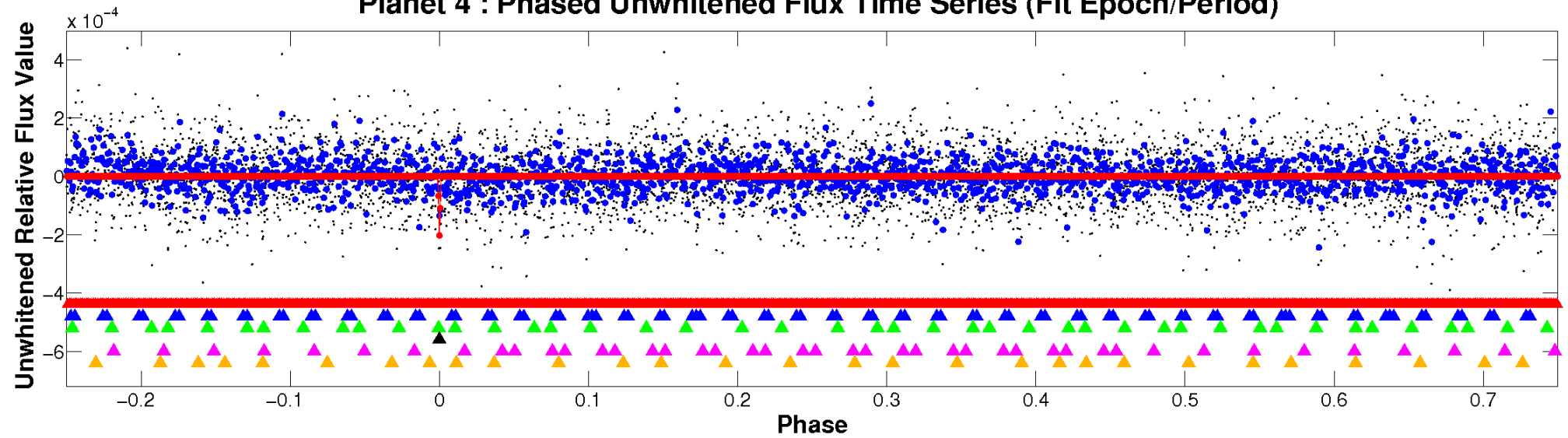
ALT Odd/Even

TCE 007115925-04

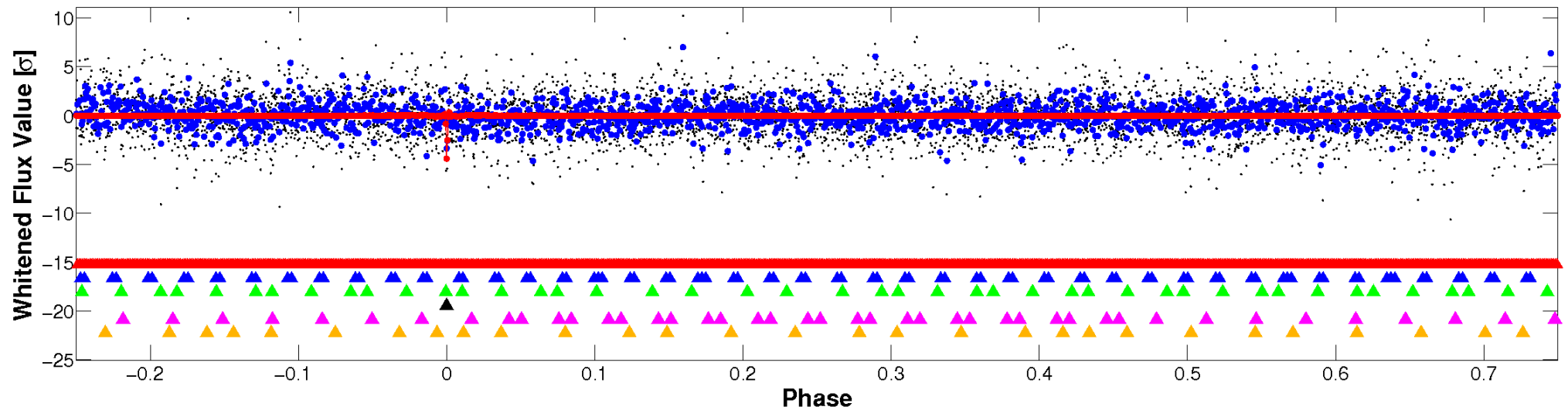


Non-Whitened Vs. Whitened Light Curve

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

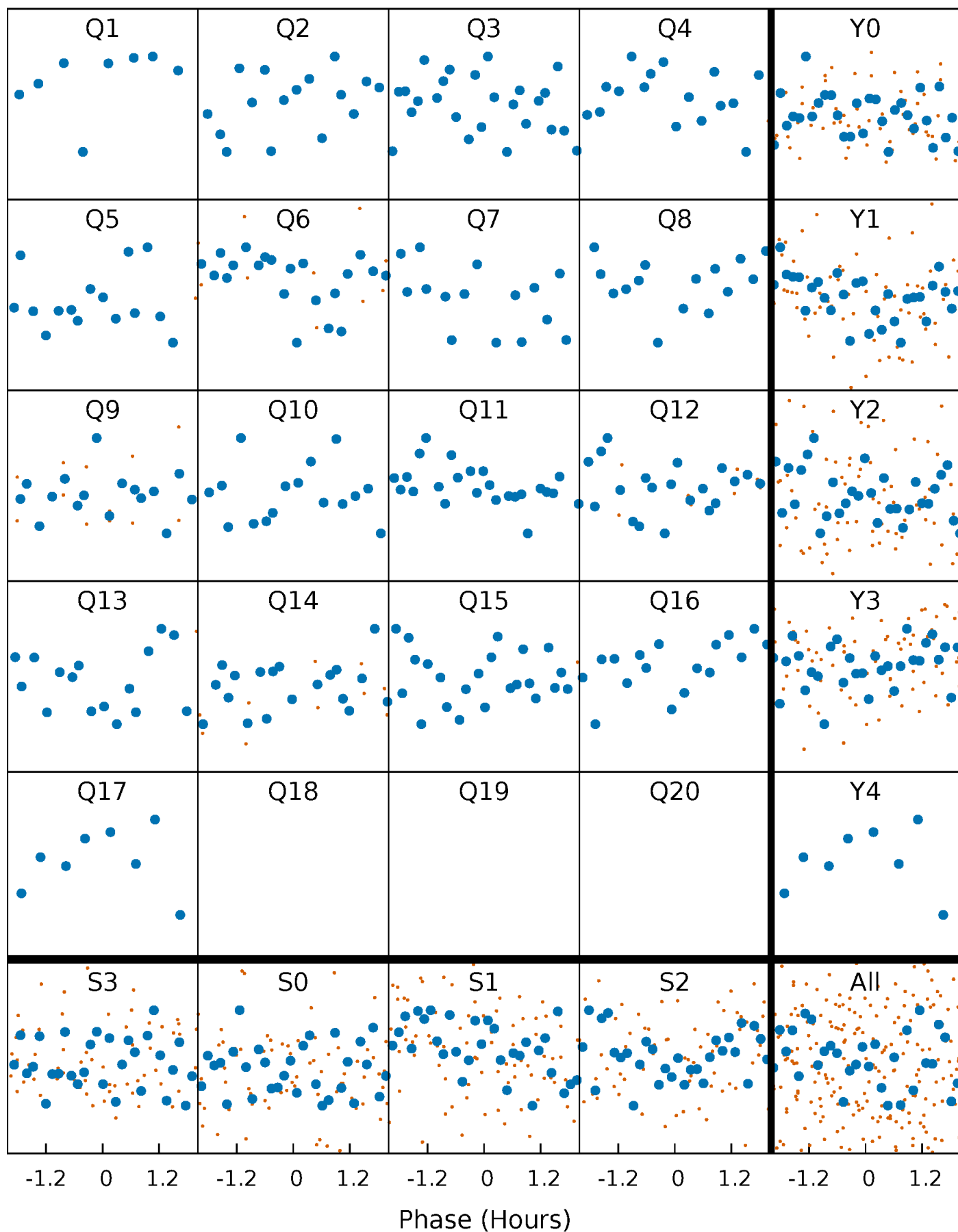


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



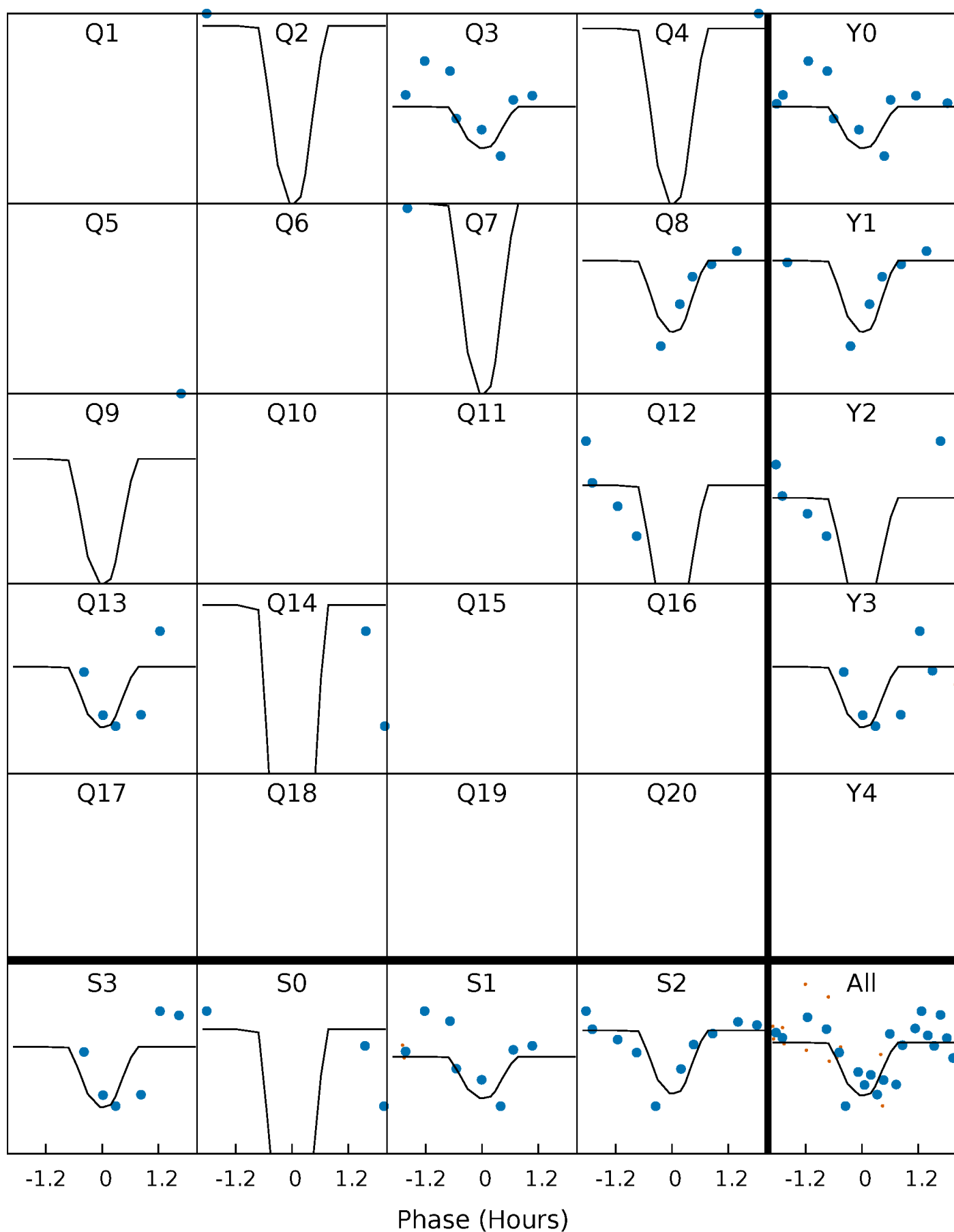
PDC Quarter-Phased Transit Curves

TCE 007115925-04 P= 35.096107 Days $T_0=161.770551$ (BKJD)



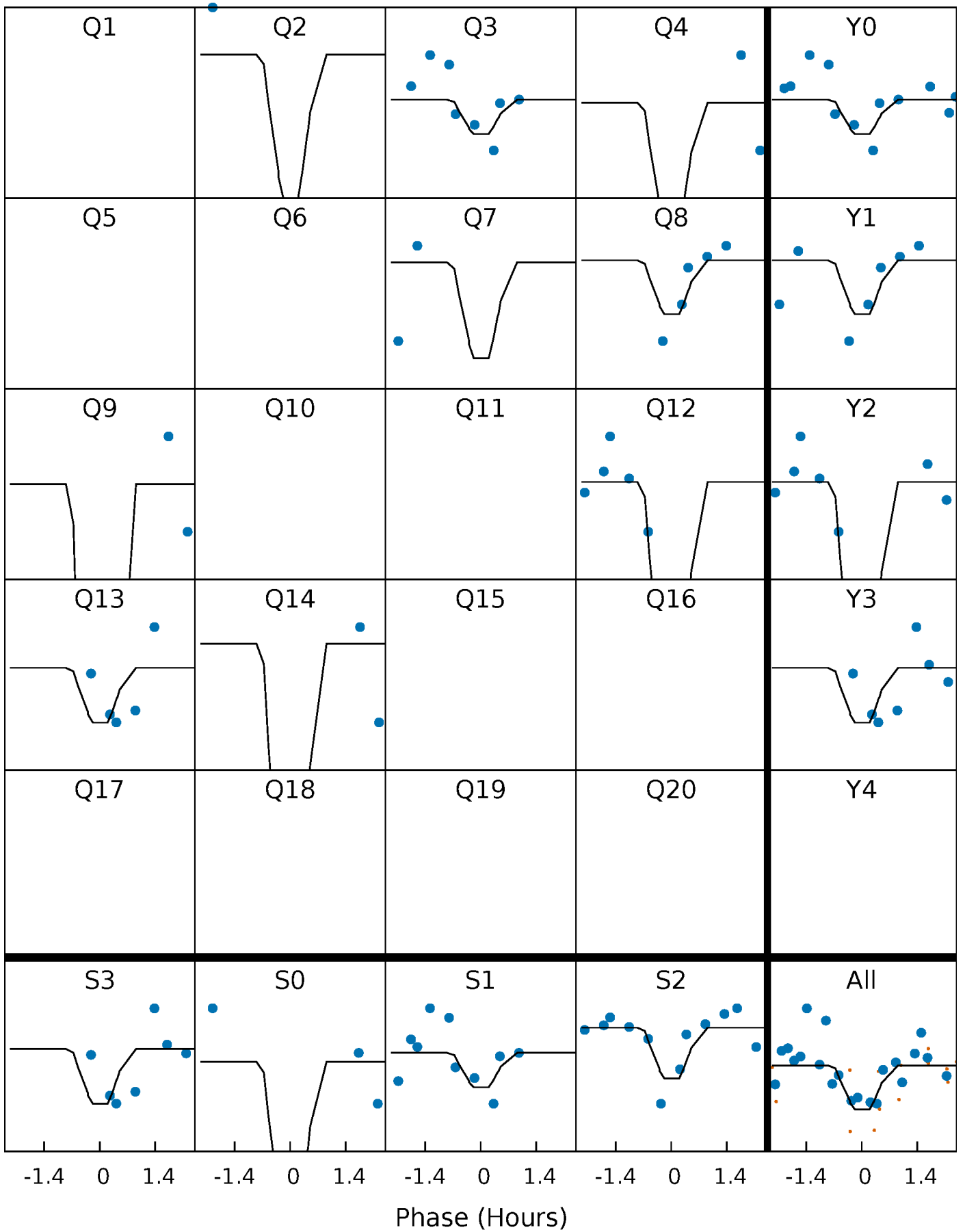
DV Quarter-Phased Transit Curves

TCE 007115925-04 P= 35.096107 Days $T_0=161.770551$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

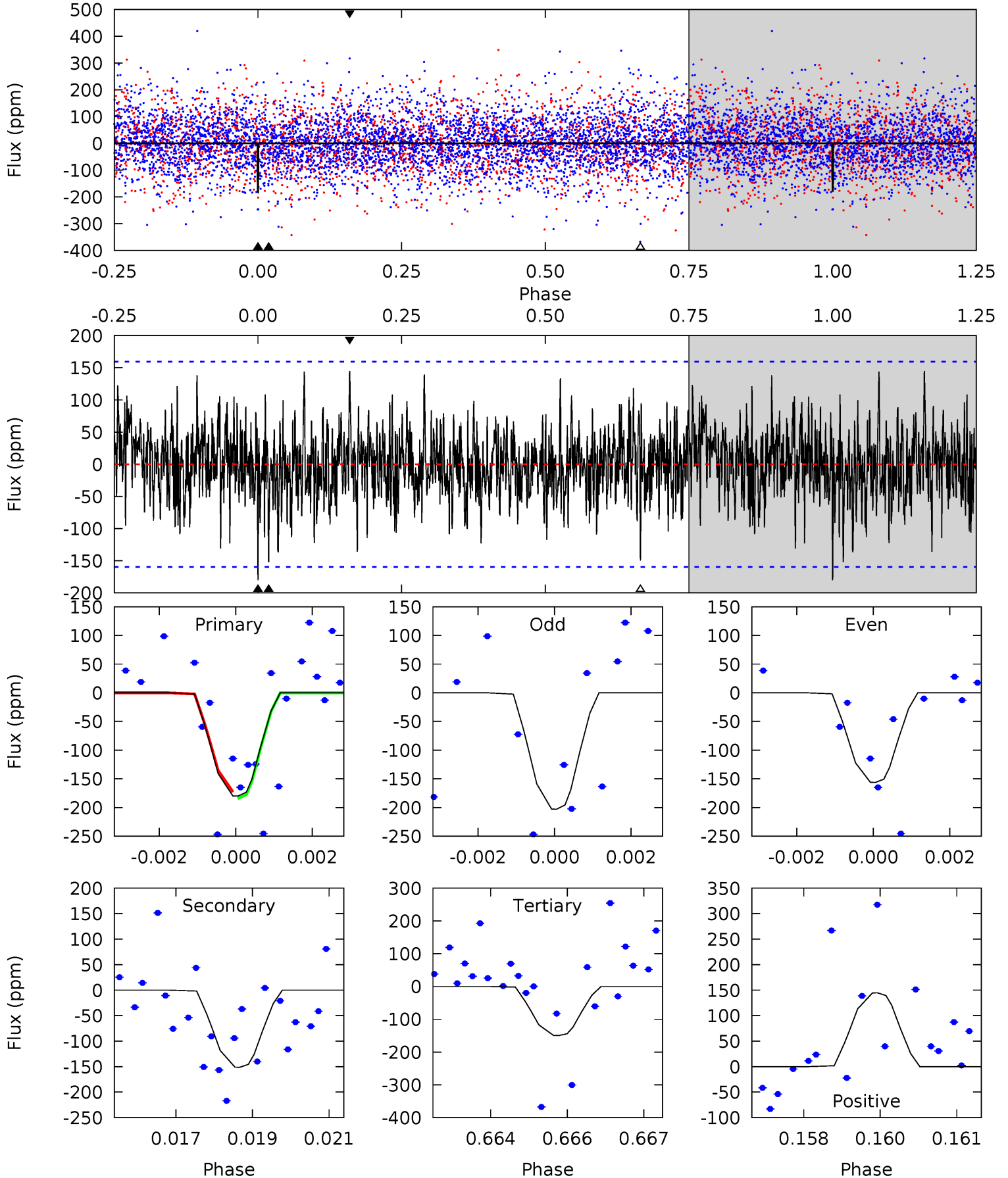
TCE 007115925-04 P= 35.095662 Days $T_0=161.777477$ (BKJD)



DV Model-Shift Uniqueness Test

007115925-04, P = 35.096107 Days, E = 126.674444 Days

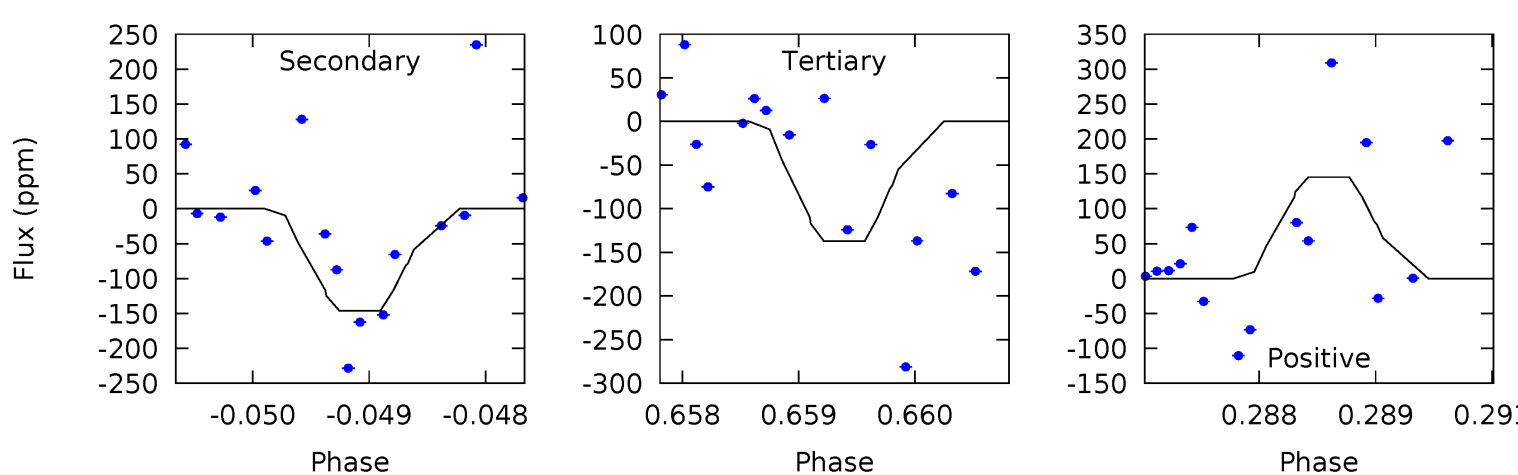
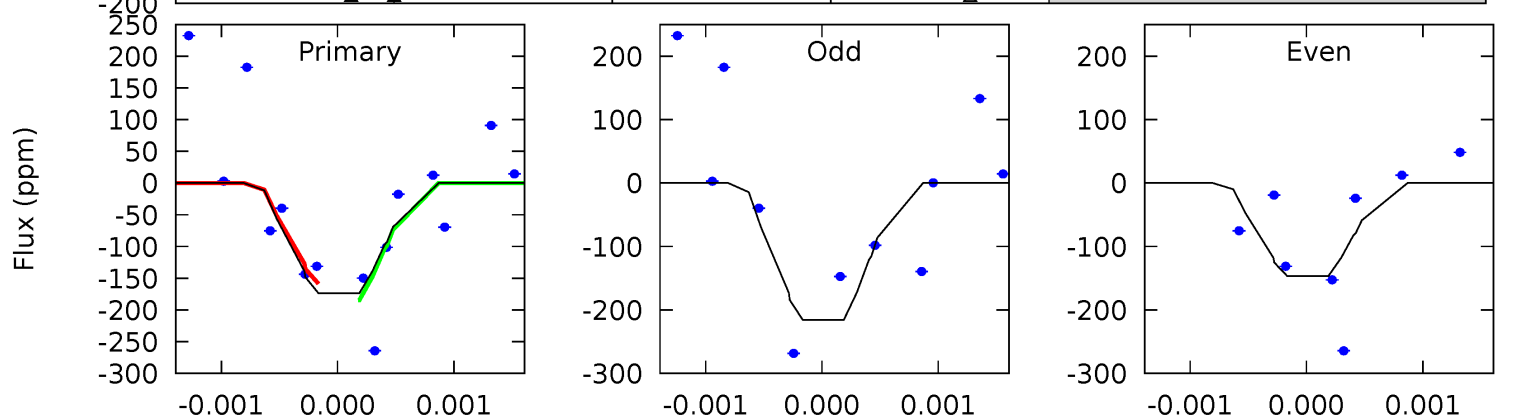
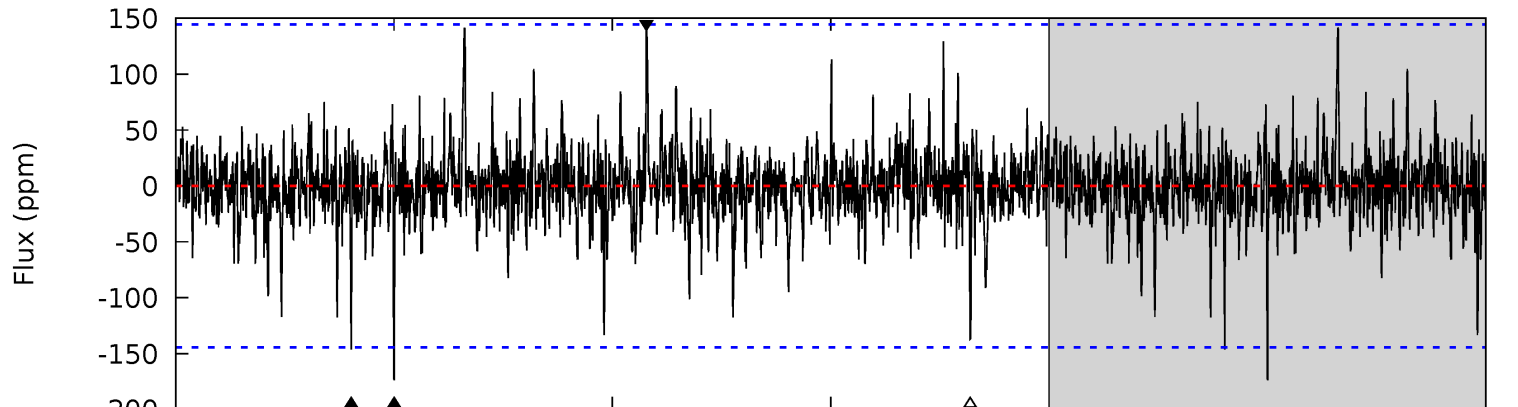
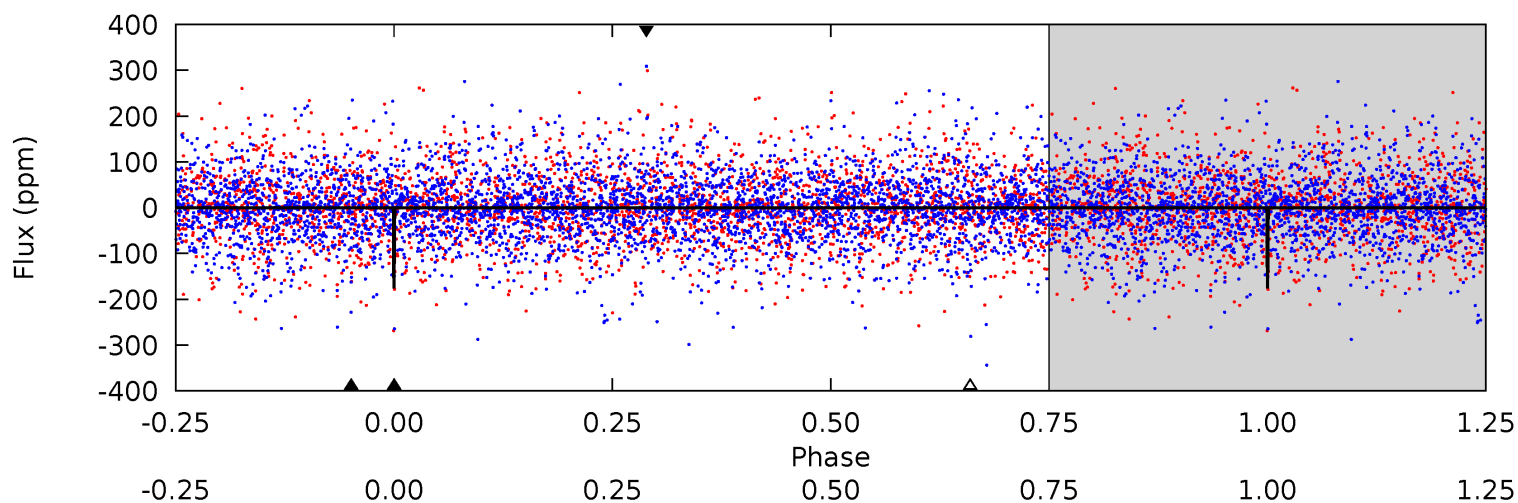
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.06	5.09	5.04	4.87	5.37	3.16	1.46	1.02	1.19	0.05	0.21	0.77	0.94	0.45	0.19



Alt Model-Shift Uniqueness Test

007115925-04, P = 35.095662 Days, E = 126.681815 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.50	5.47	5.13	5.44	5.41	3.23	1.04	1.37	1.06	0.34	0.03	1.25	0.84	0.46	0.47



Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-151 ± 30	$3.15^{+2.94}_{-2.00}$	1053^{+67}_{-81}	5251^{+4027}_{-1148}	415^{+2686}_{-299}
Alt.	-146 ± 27	$3.26^{+2.84}_{-2.15}$	1058^{+59}_{-82}	5170^{+4525}_{-1117}	380^{+3023}_{-276}

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

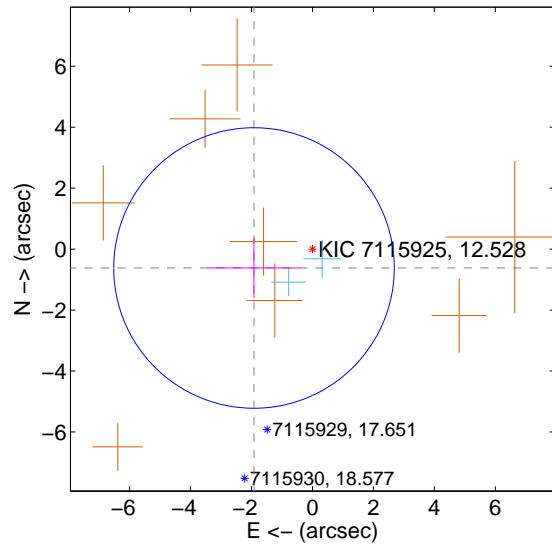
Supplemental centroid analysis for 007115925-04. Kepler magnitude: 12.53. Transit SNR 10.50

There are 2 quarters with good PRF difference image offsets

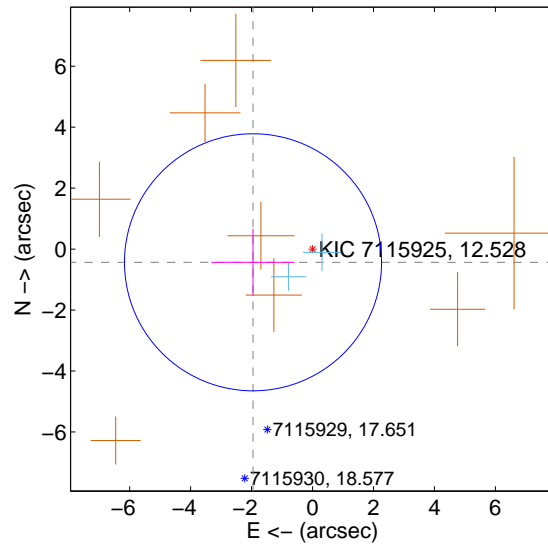
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.015 ± 1.534	1.31	1.917 ± 1.528	-0.620 ± 0.990
PRF-fit source offset from KIC position	2.000 ± 1.405	1.42	1.952 ± 1.366	-0.433 ± 1.105
photometric centroid source offset	1.97 ± 0.65	3.03	-0.38 ± 0.69	1.94 ± 0.65

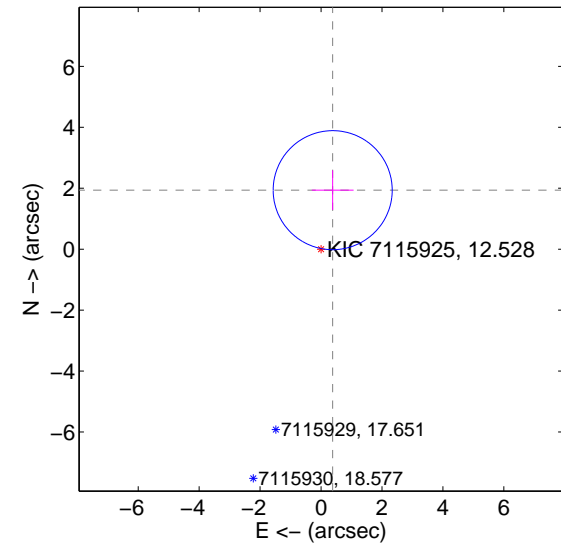
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

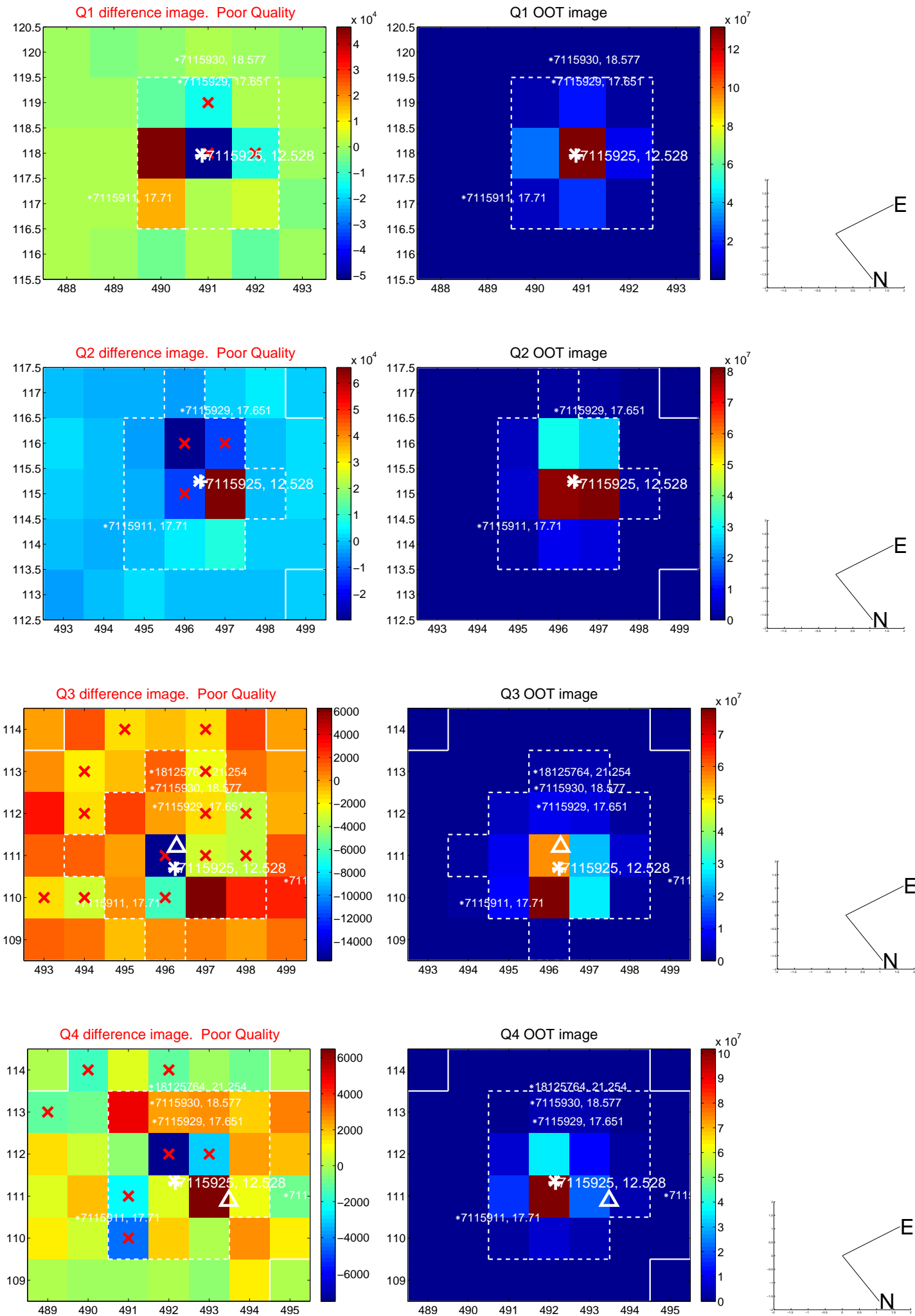


offset from photometric centroids

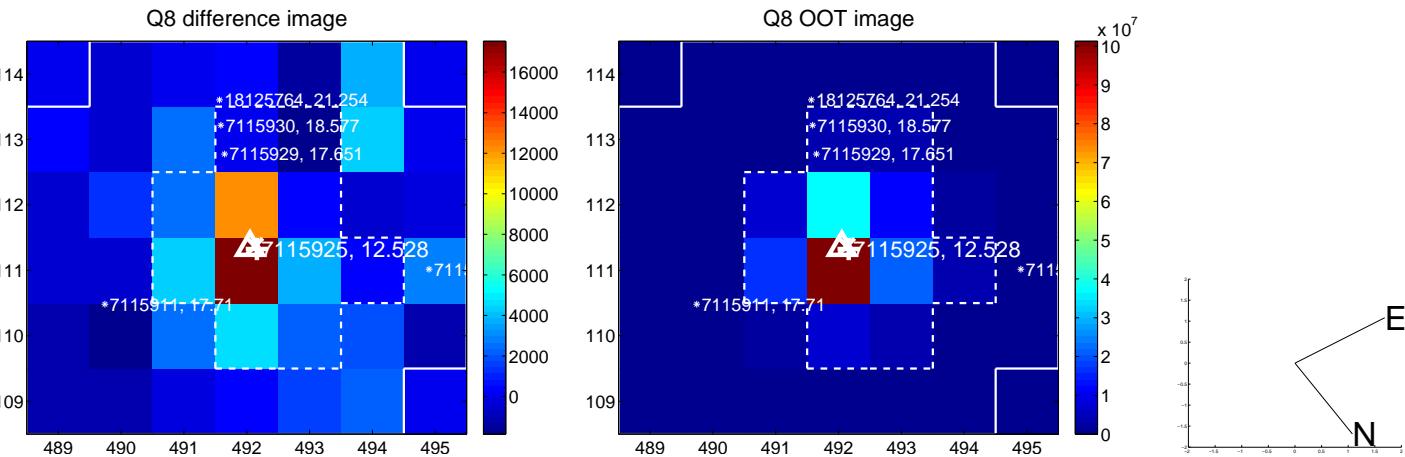
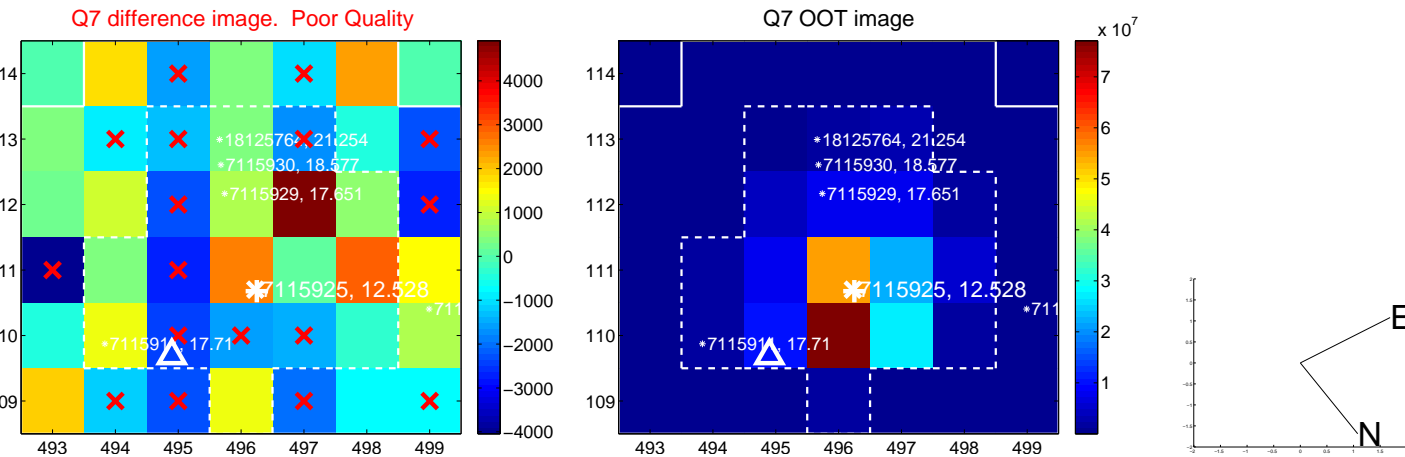
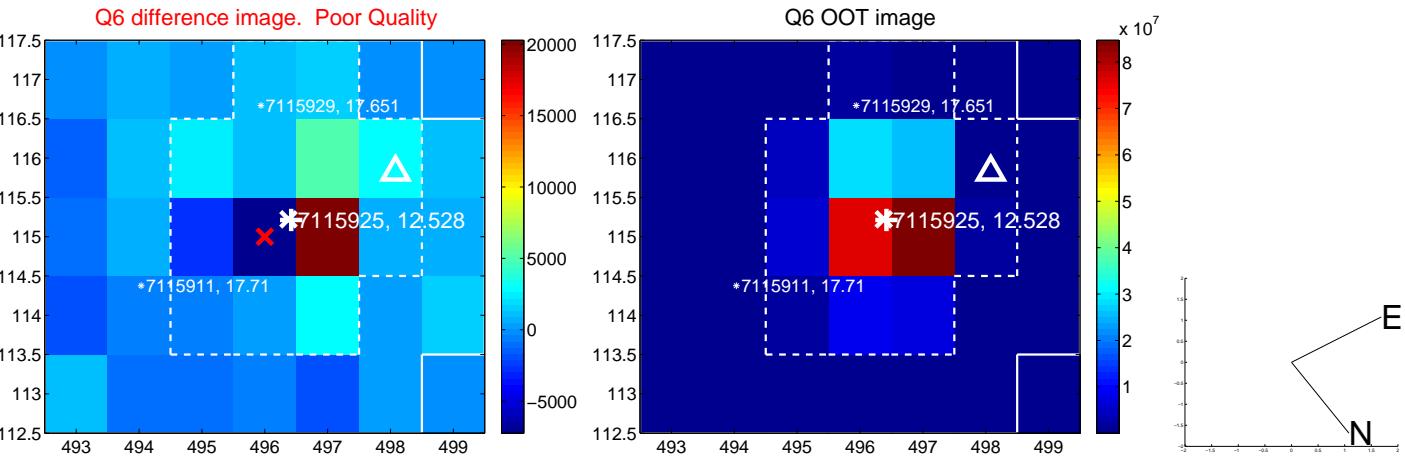
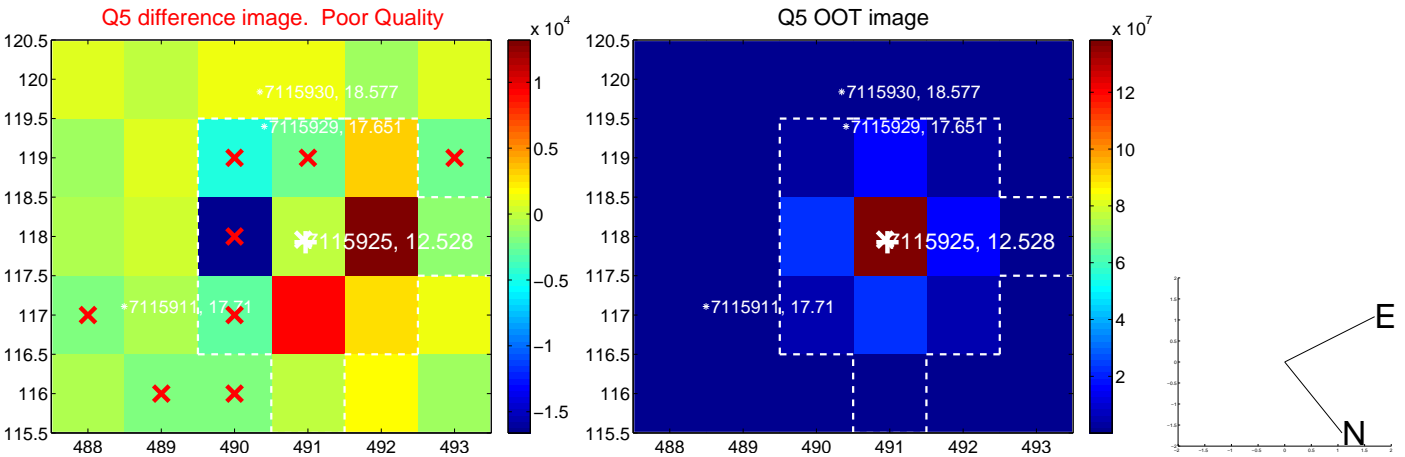


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

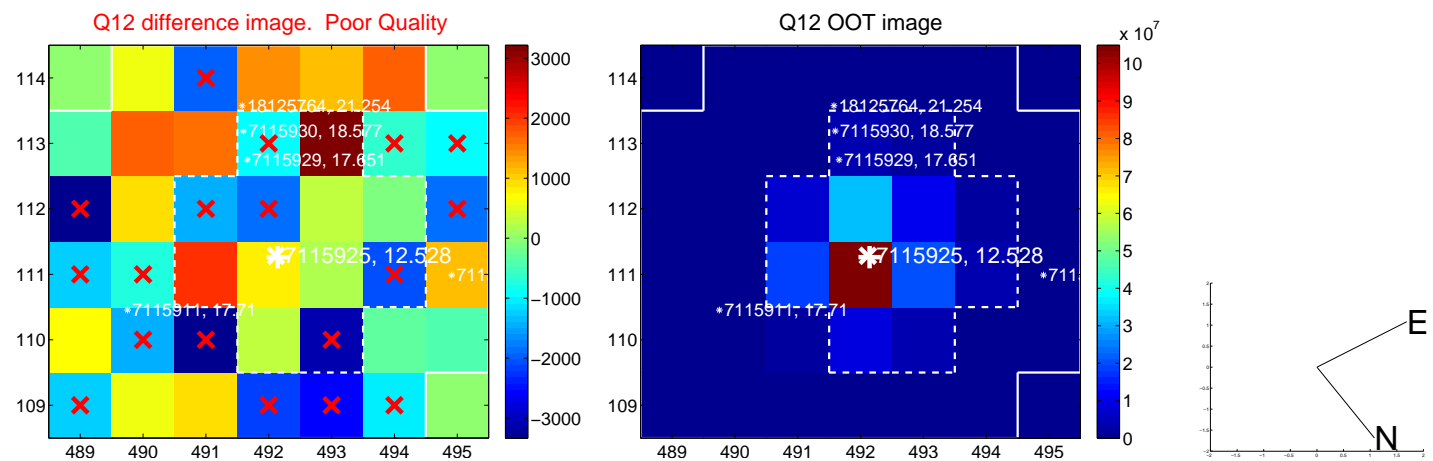
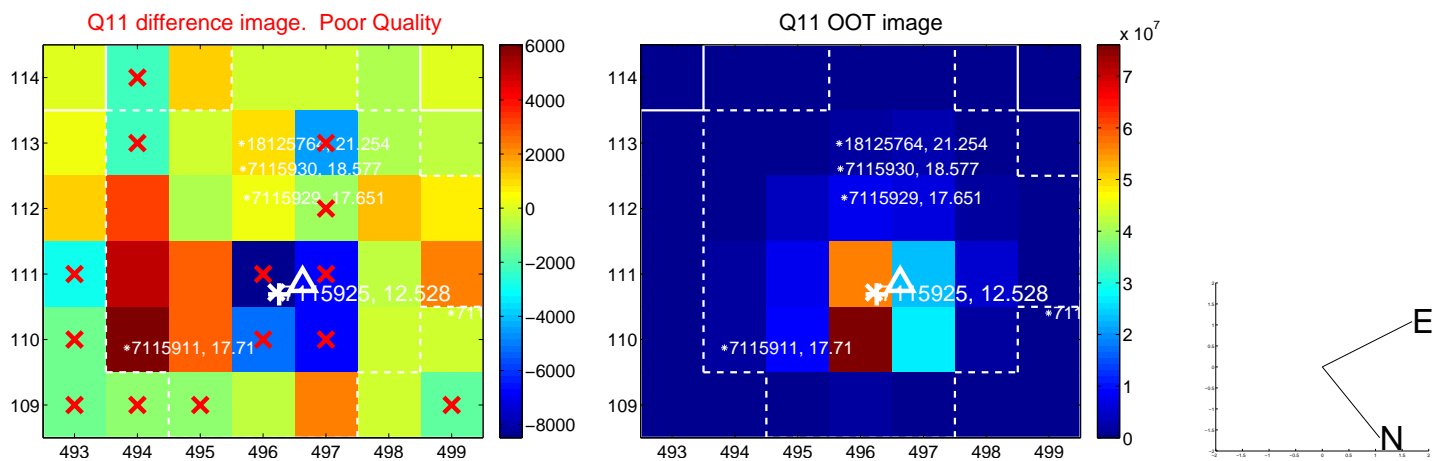
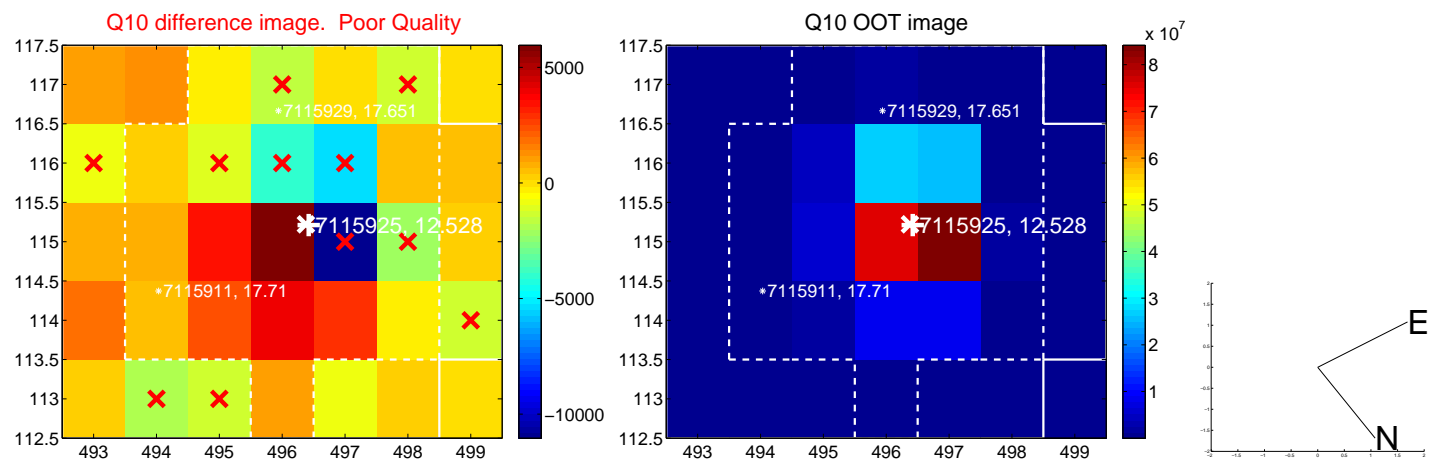
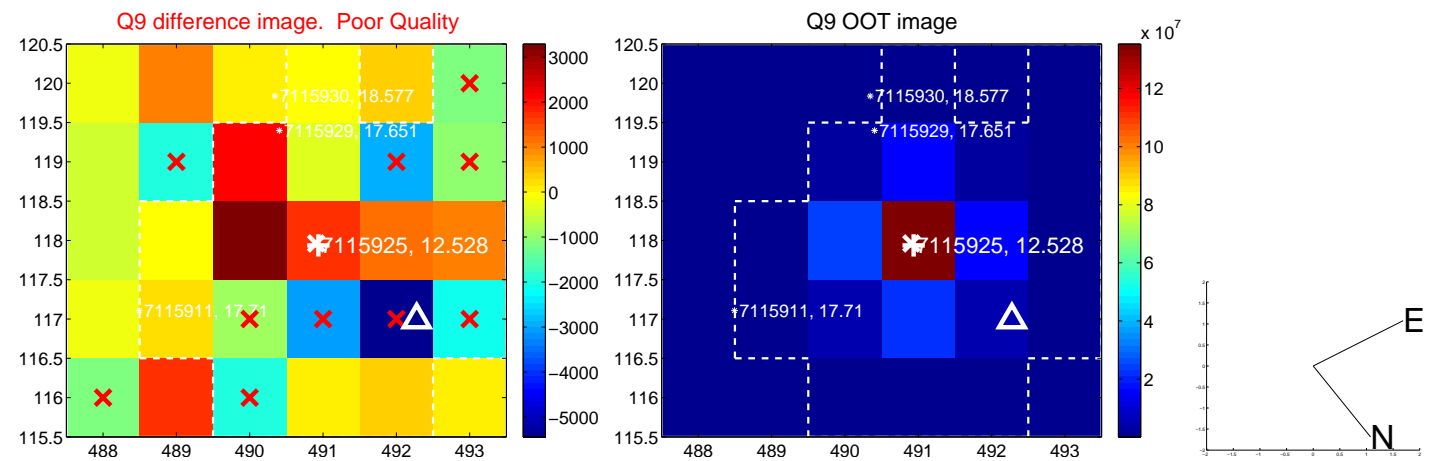
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



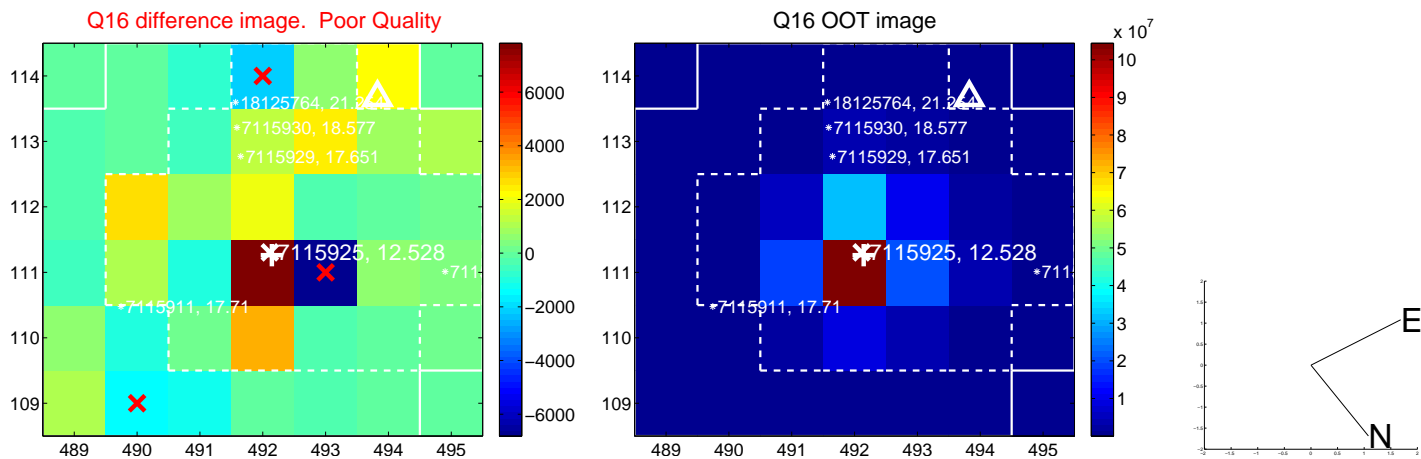
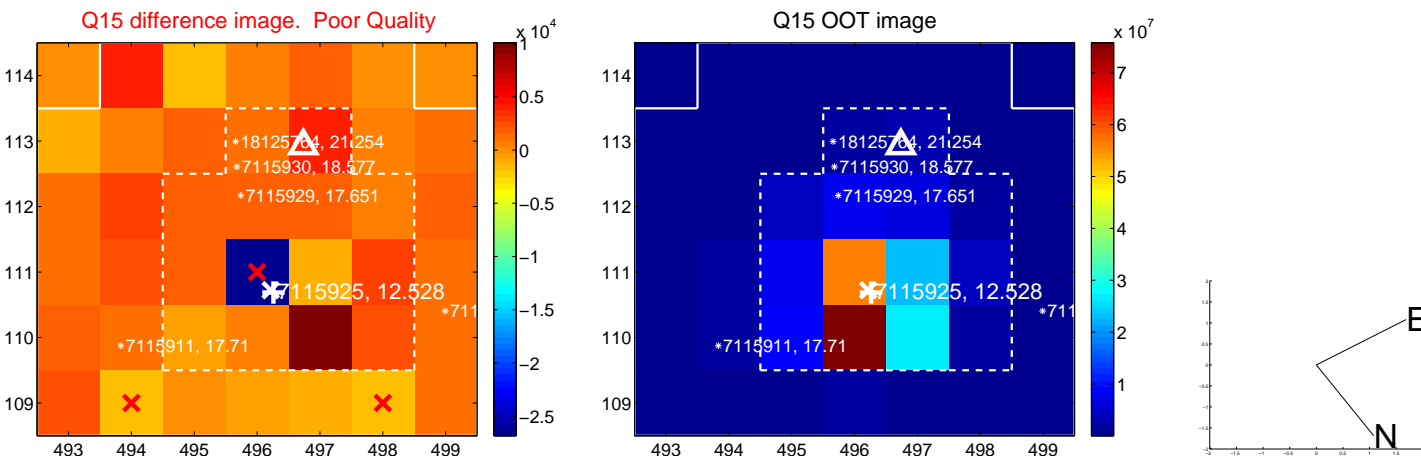
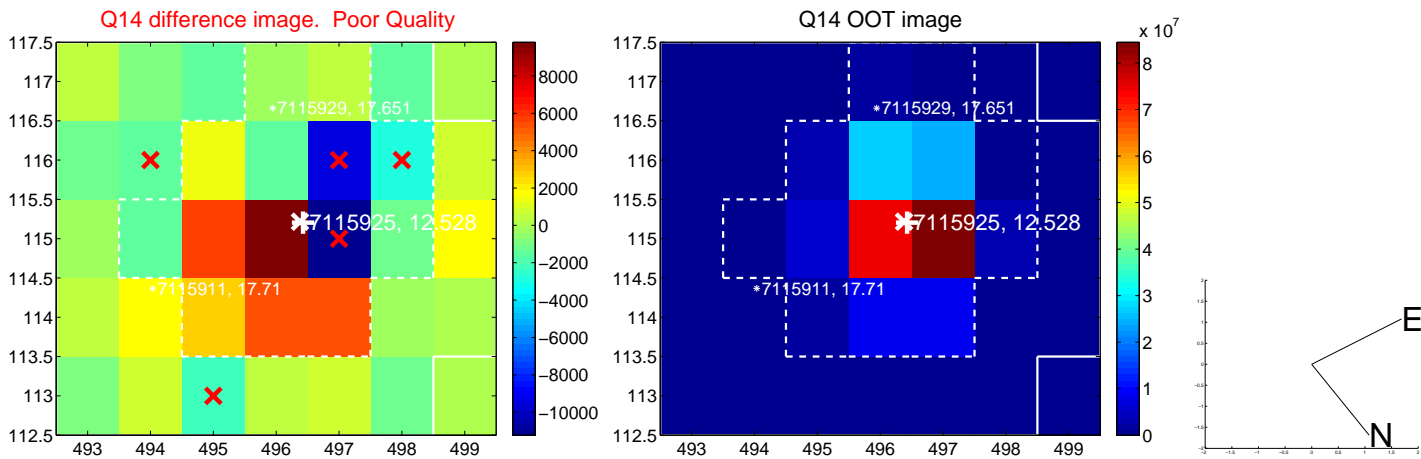
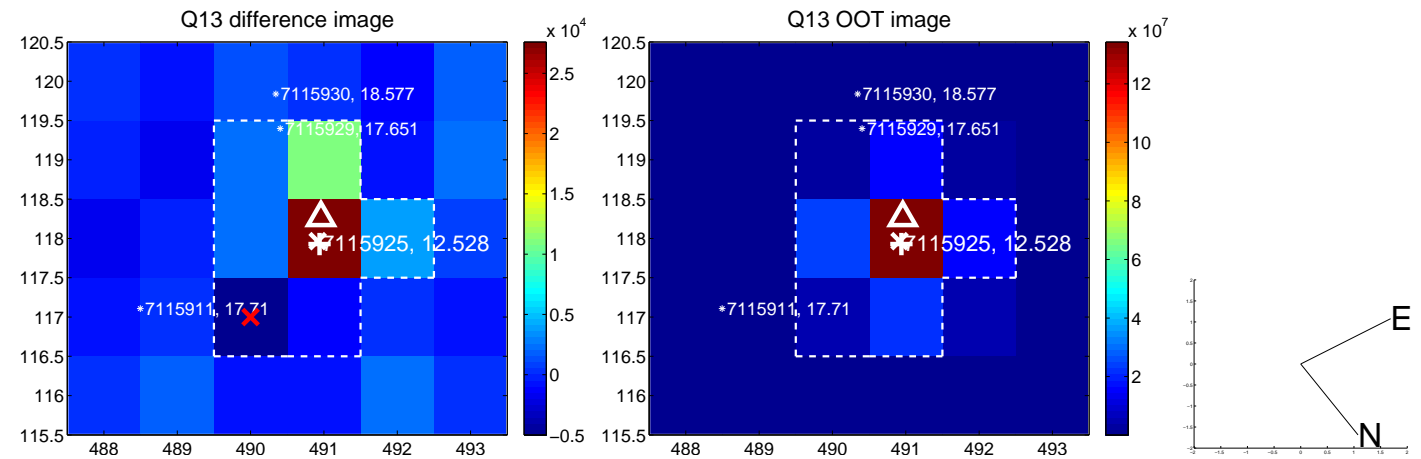
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



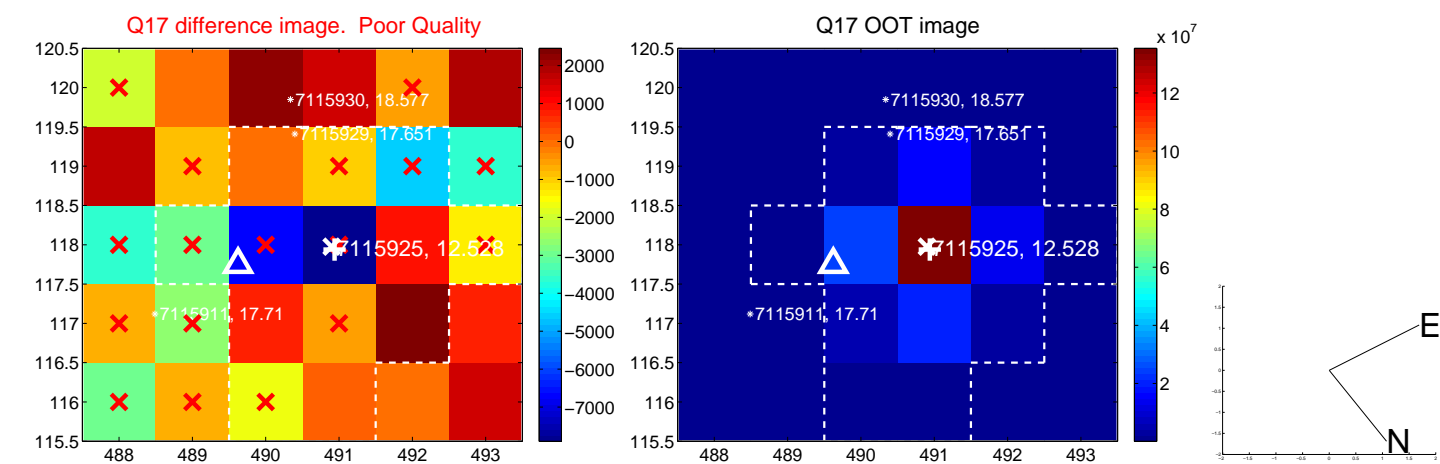
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



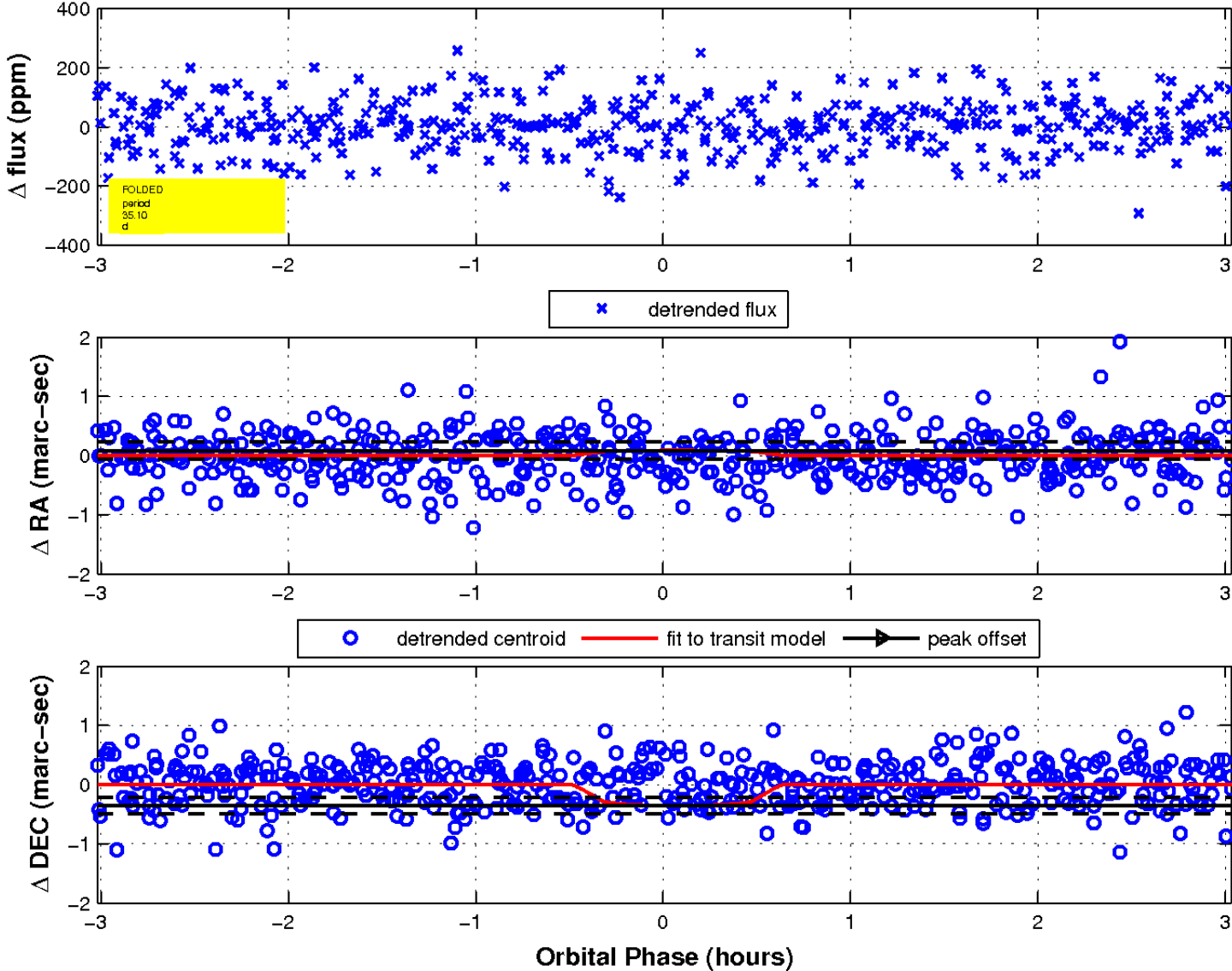
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

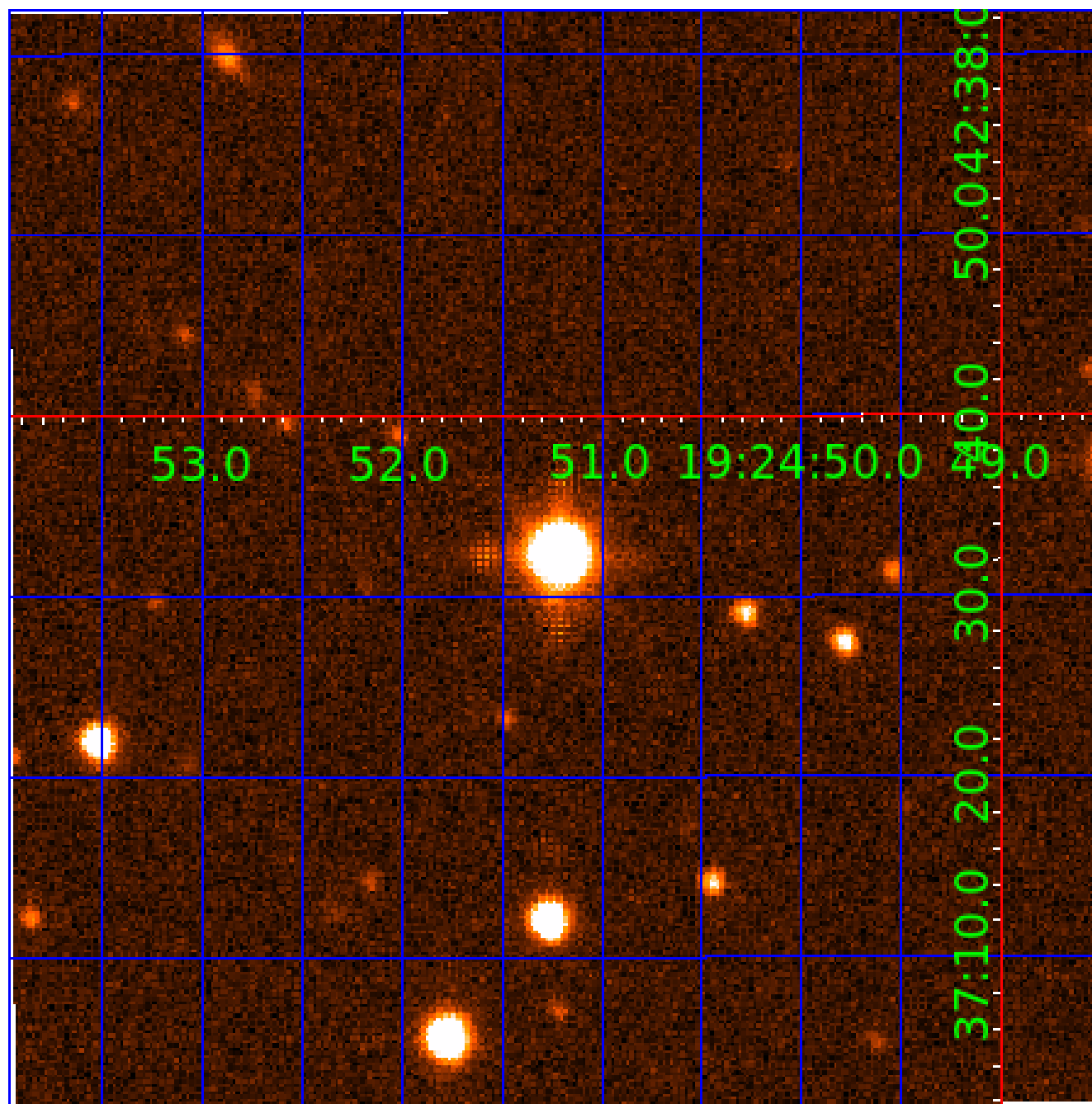


fluxWeightedCentroids, Planet 4 of 6



UKIRT Image

Declination



KIC 007115925

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})
007115925-01	OBS	4258.01	0.566768	131.837309	7.9	3.963	13.4	9.0	1.69	6287	0.51	19644.11
007115925-02	OBS	No	16.321569	132.814450	226.3	0.680	11.2	10.7	1.69	6287	2.60	222.55
007115925-03	OBS	No	32.844297	164.004936	169.4	1.485	12.9	10.3	1.69	6287	2.46	87.60
007115925-04	OBS	No	35.096107	161.770551	205.6	1.013	10.1	10.5	1.69	6287	2.74	80.19
007115925-05	OBS	No	33.916479	142.603613	144.5	1.890	10.8	10.1	1.69	6287	2.26	83.92
007115925-06	OBS	No	49.920369	162.170442	189.6	1.481	10.9	11.4	1.69	6287	2.36	50.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007115925-01	OBS	FP	0.00	1	0	0	1	LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007115925-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
007115925-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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

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

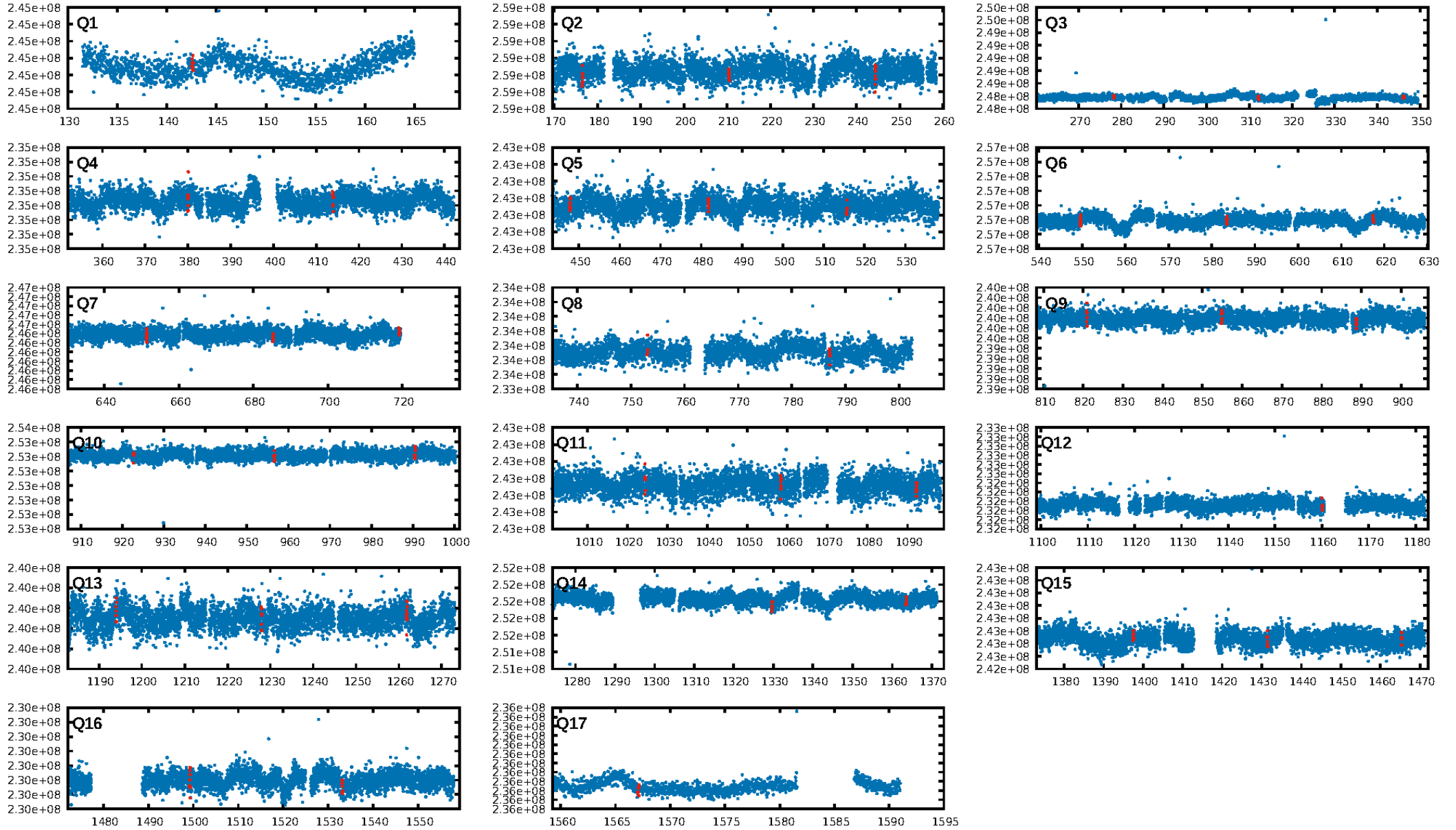
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 007115925-05

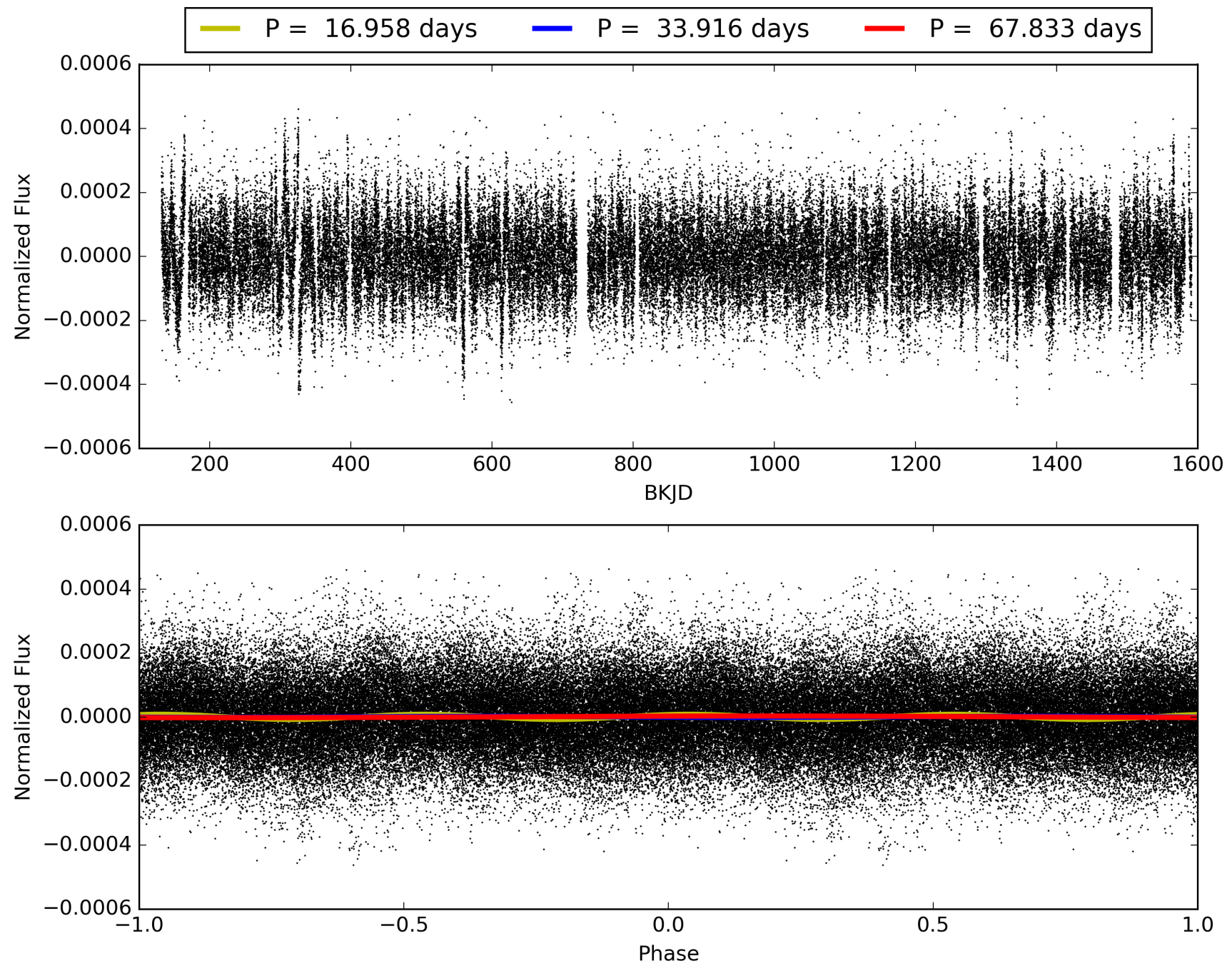
No Significant Match Found

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

TCE 007115925-05, PDC Light Curves

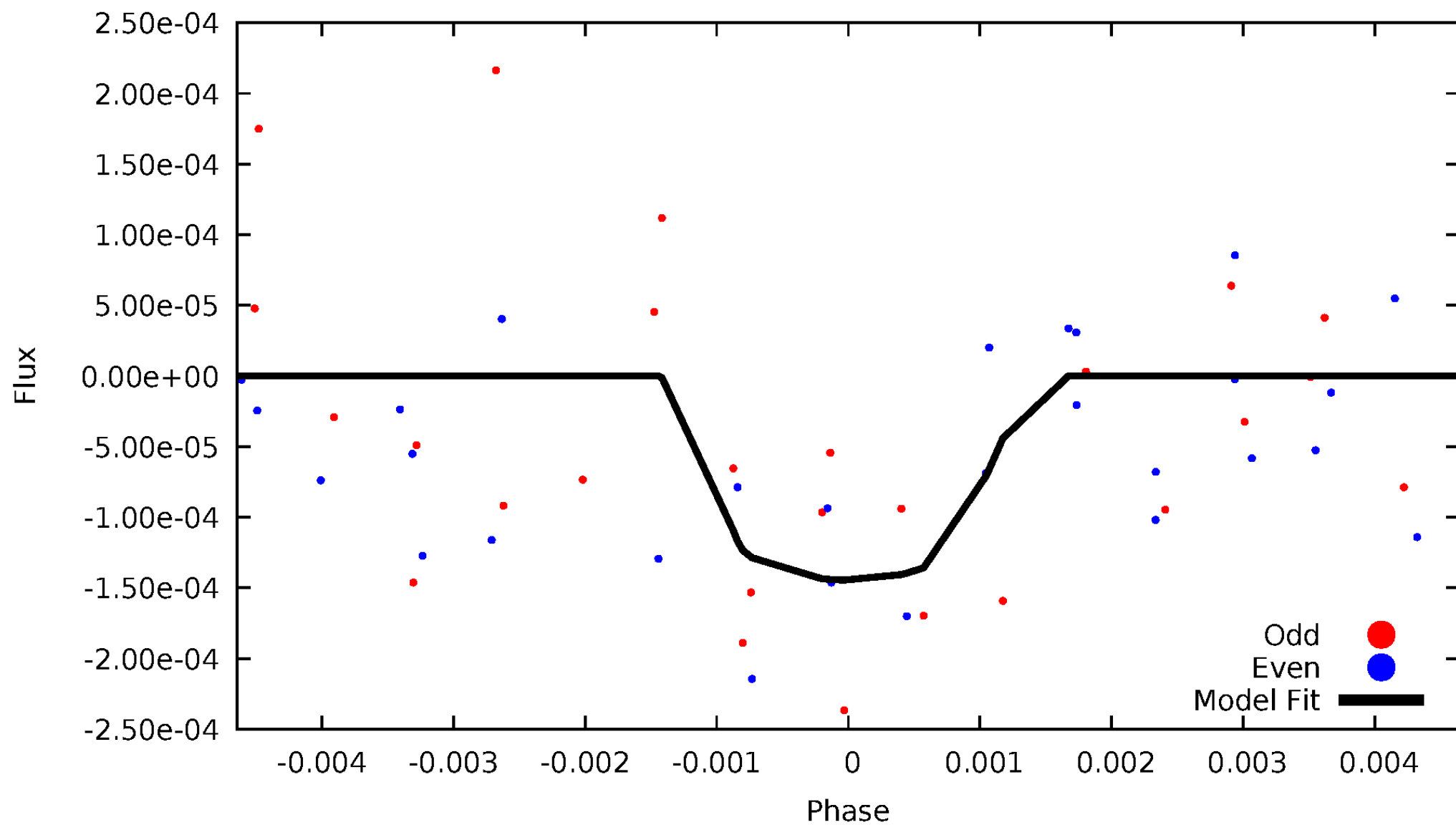


TCE 007115925-05



DV Odd/Even

TCE 007115925-05

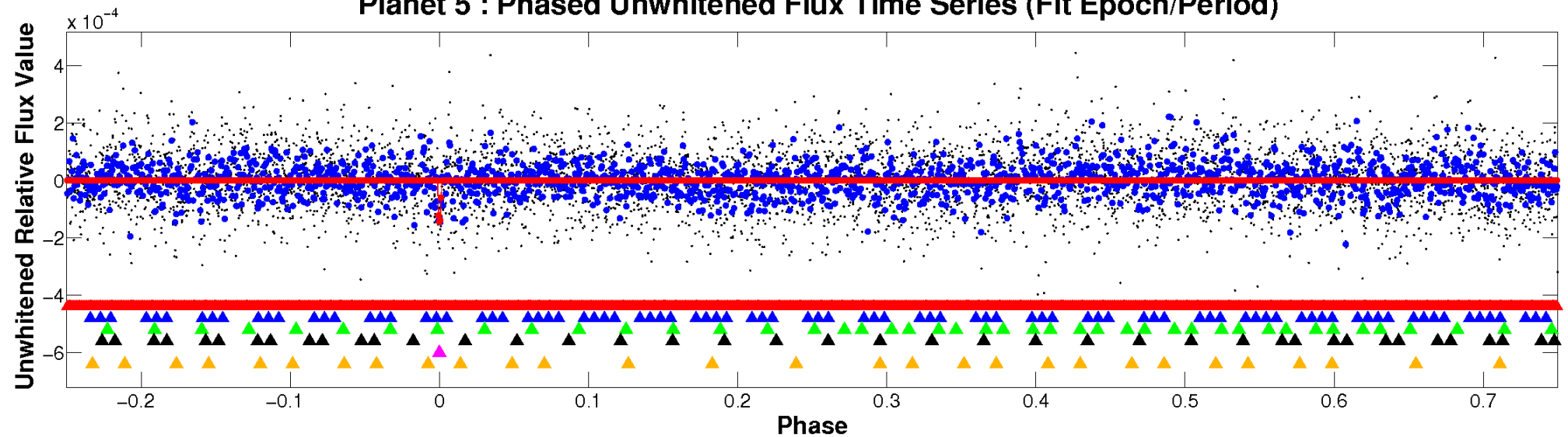


ALT Odd/Even

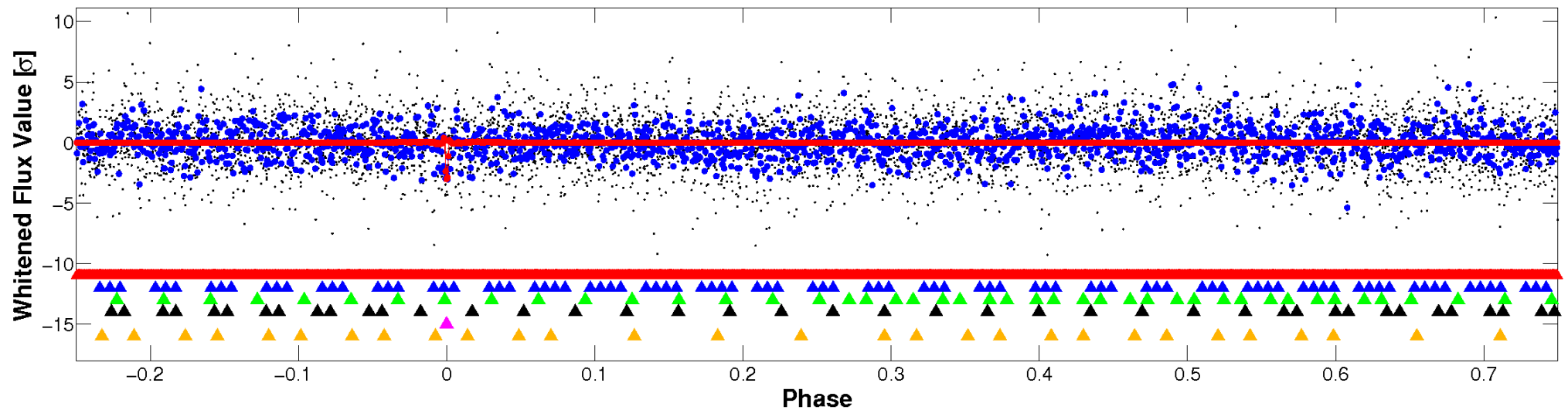
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

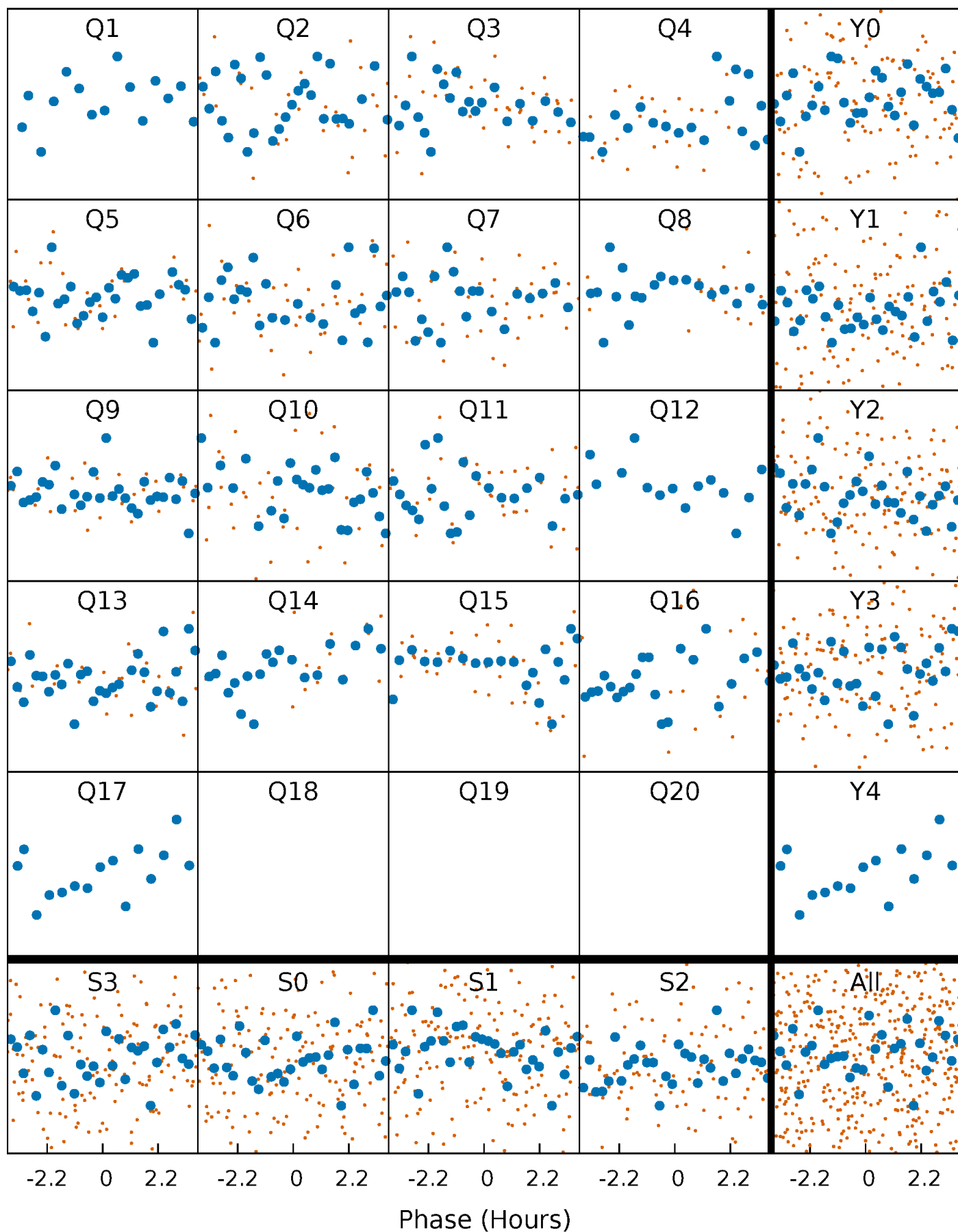


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



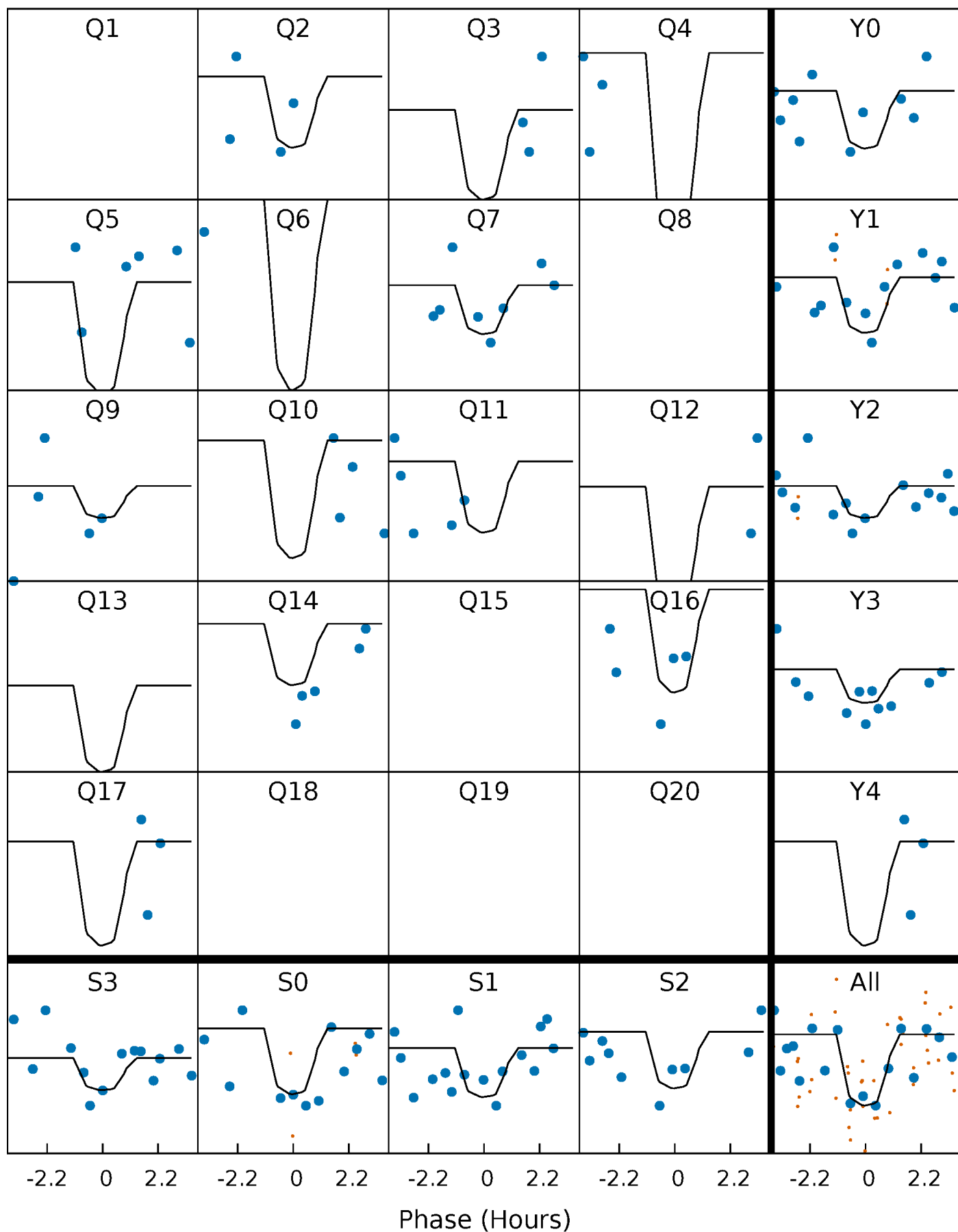
PDC Quarter-Phased Transit Curves

TCE 007115925-05 P= 33.916479 Days $T_0=142.603613$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007115925-05 P= 33.916479 Days $T_0=142.603613$ (BKJD)

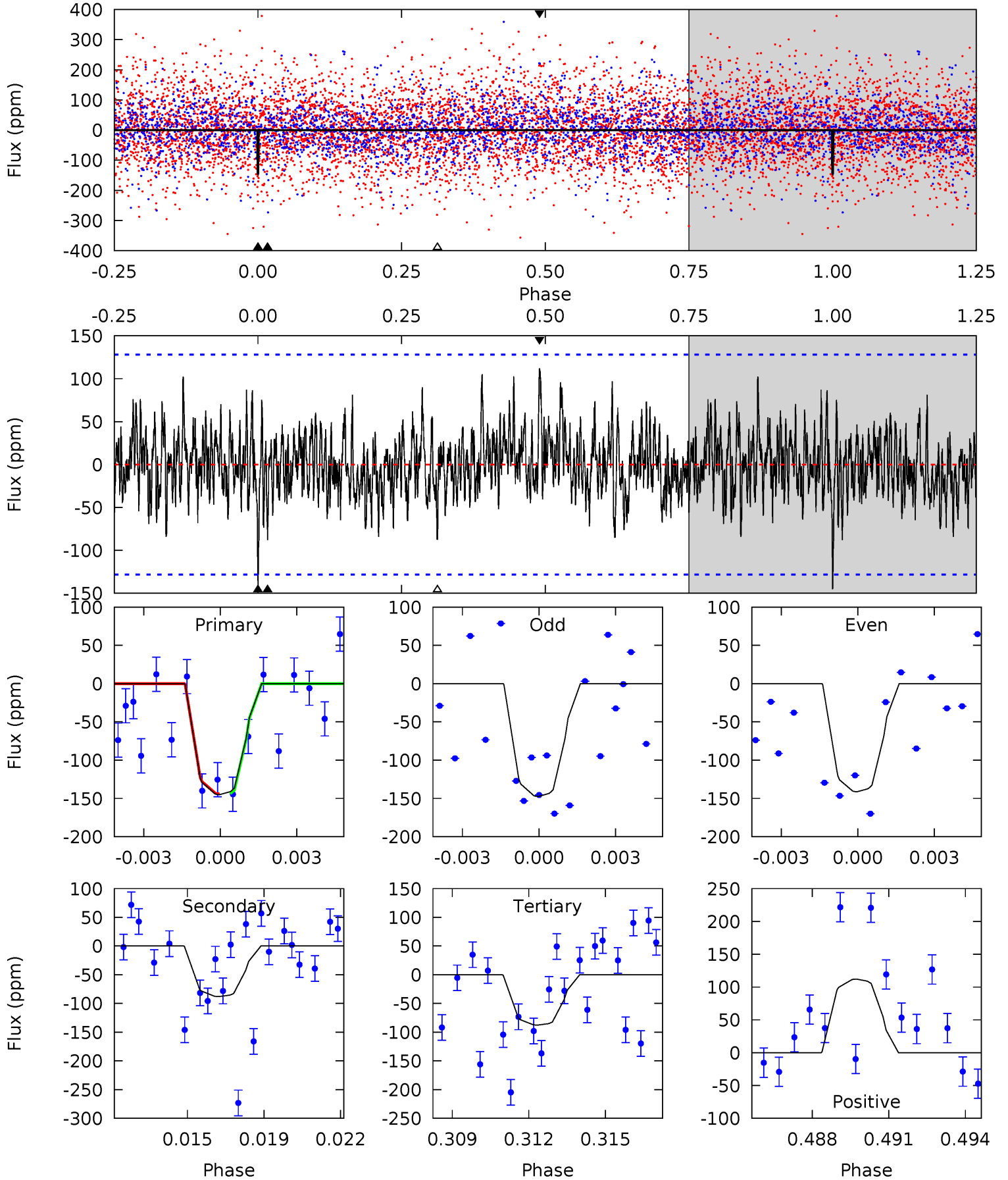


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007115925-05, P = 33.916479 Days, E = 108.687134 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
5.94	3.60	3.59	4.59	5.25	2.96	1.29	2.35	1.35	0.01	-0.99	0.12	1.17	0.44	0.01



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-88 ± 24	$4.69^{+4.33}_{-3.23}$	1068^{+71}_{-80}	4043^{+2726}_{-802}	106^{+998}_{-79}
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

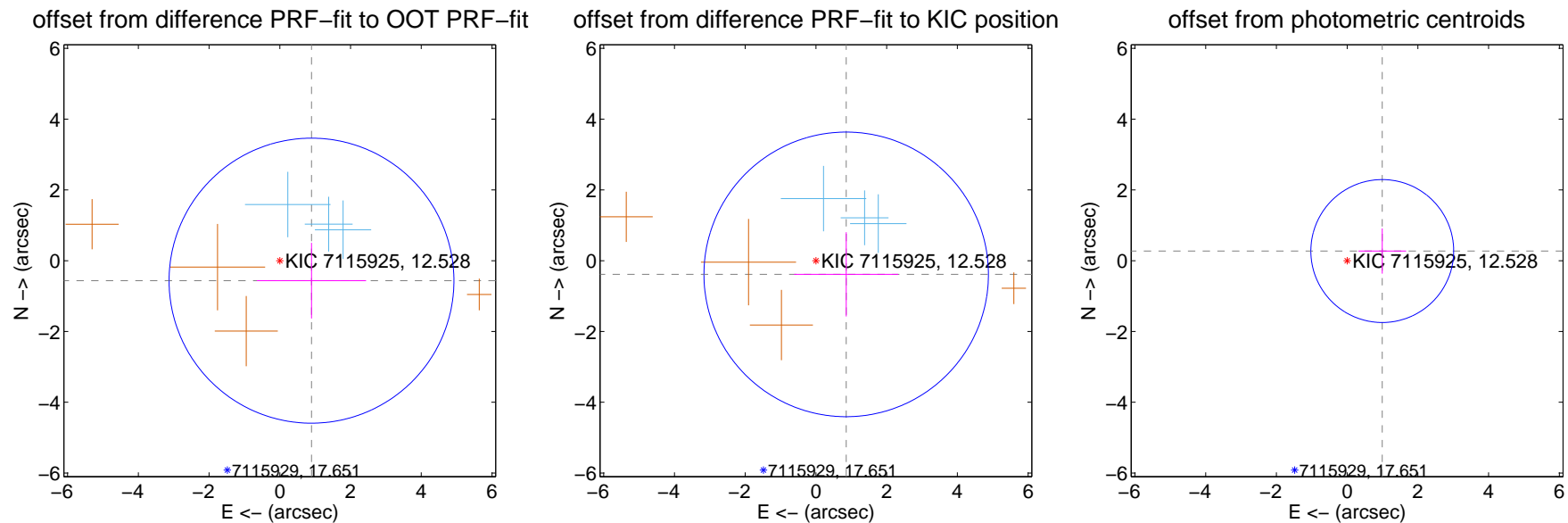
DV Centroid Data

Supplemental centroid analysis for 007115925-05. Kepler magnitude: 12.53. Transit SNR 10.06

There are 4 quarters with good PRF difference image offsets

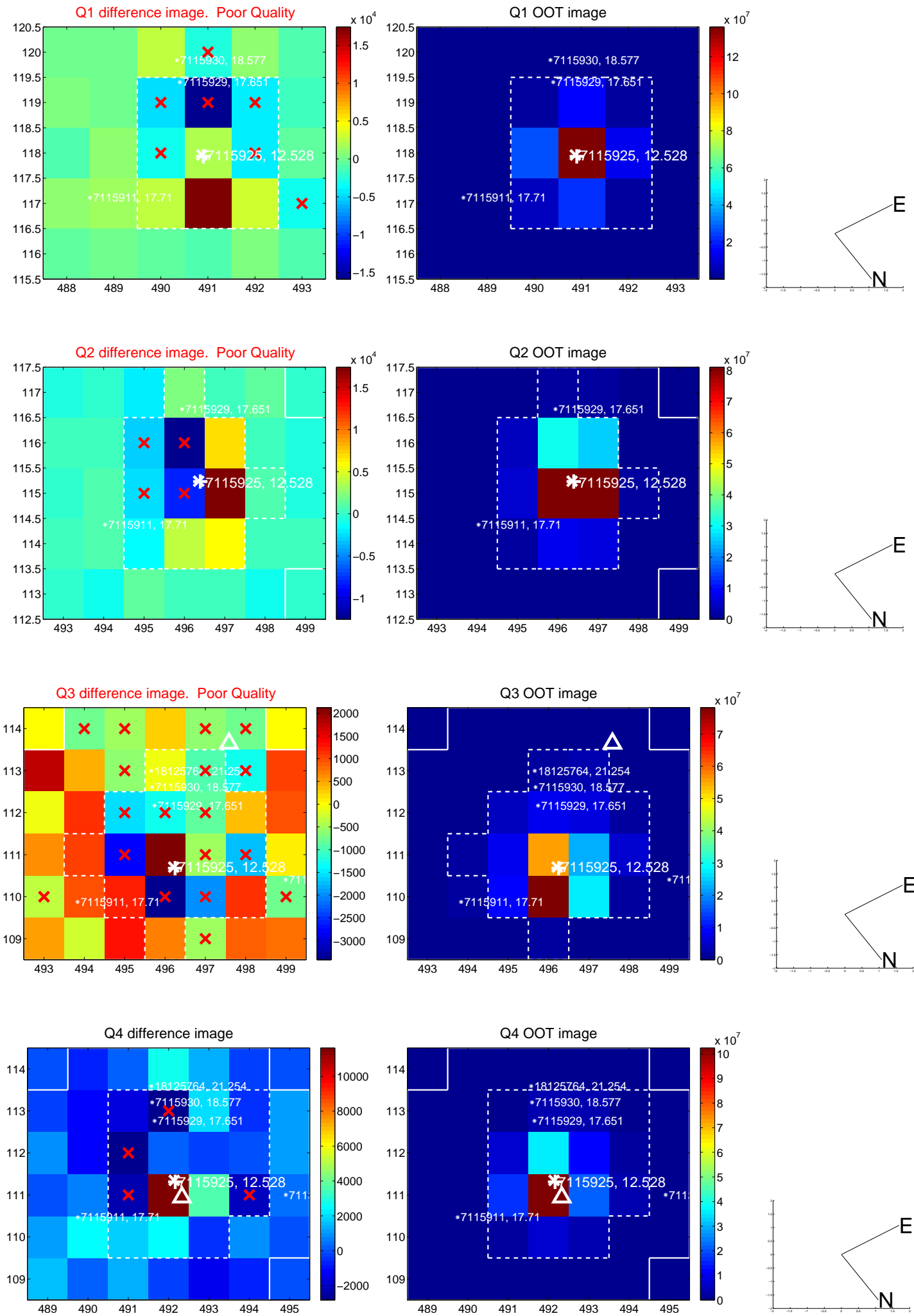
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.059 ± 1.342	0.79	-0.896 ± 1.544	-0.565 ± 1.068
PRF-fit source offset from KIC position	0.939 ± 1.341	0.70	-0.856 ± 1.472	-0.387 ± 1.190
photometric centroid source offset	1.03 ± 0.67	1.53	-0.99 ± 0.68	0.27 ± 0.64

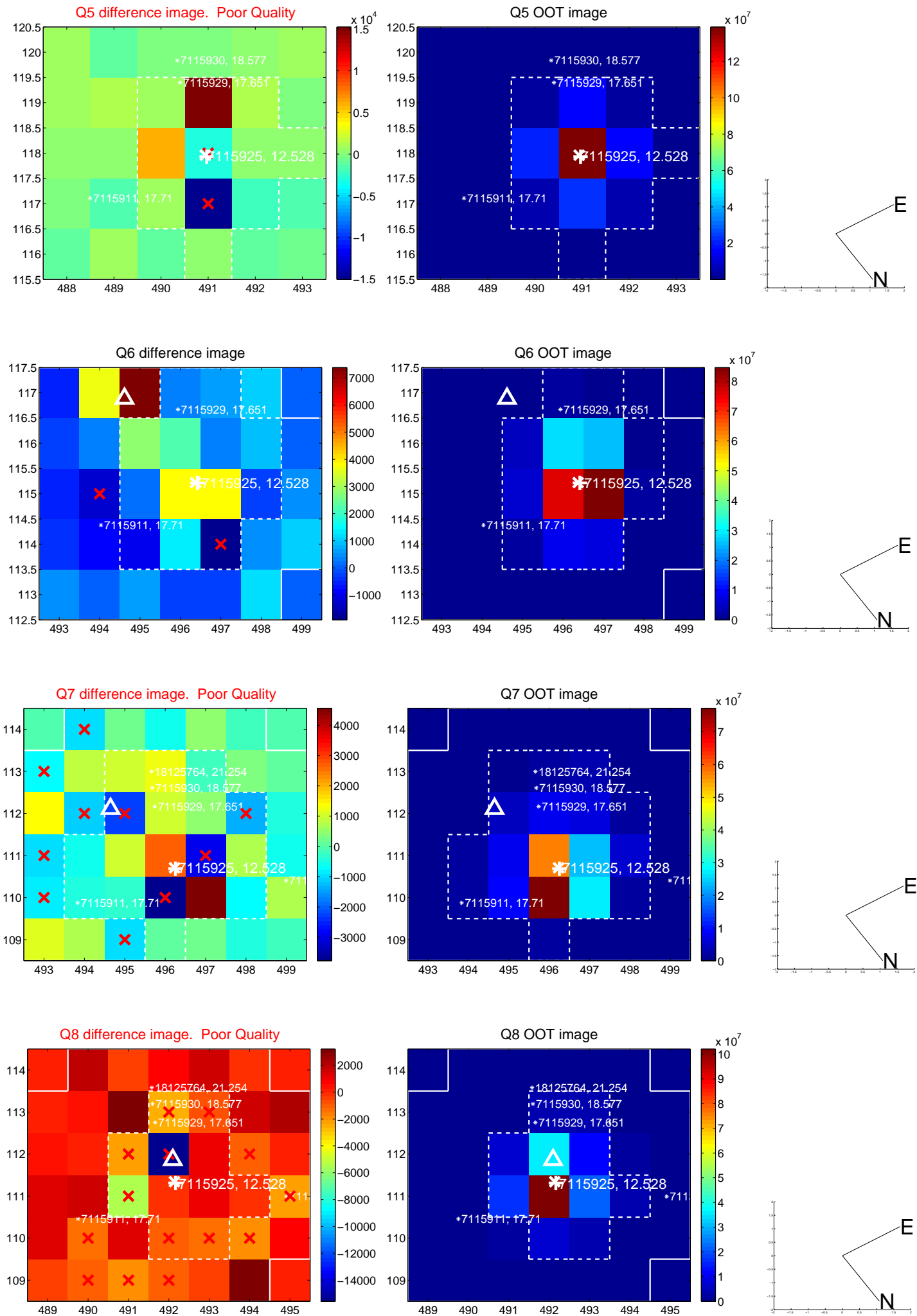


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

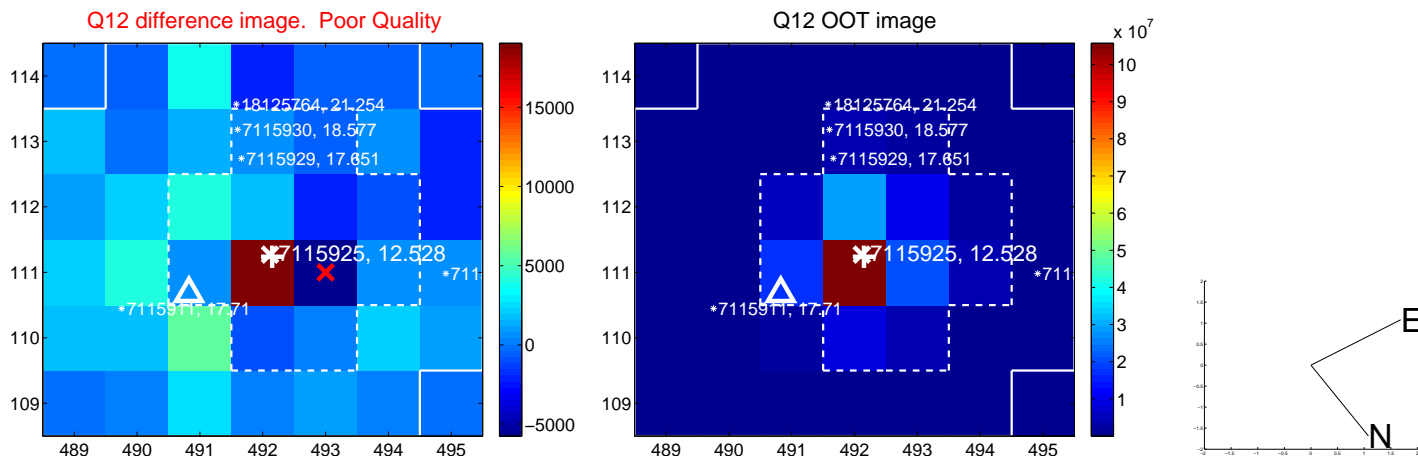
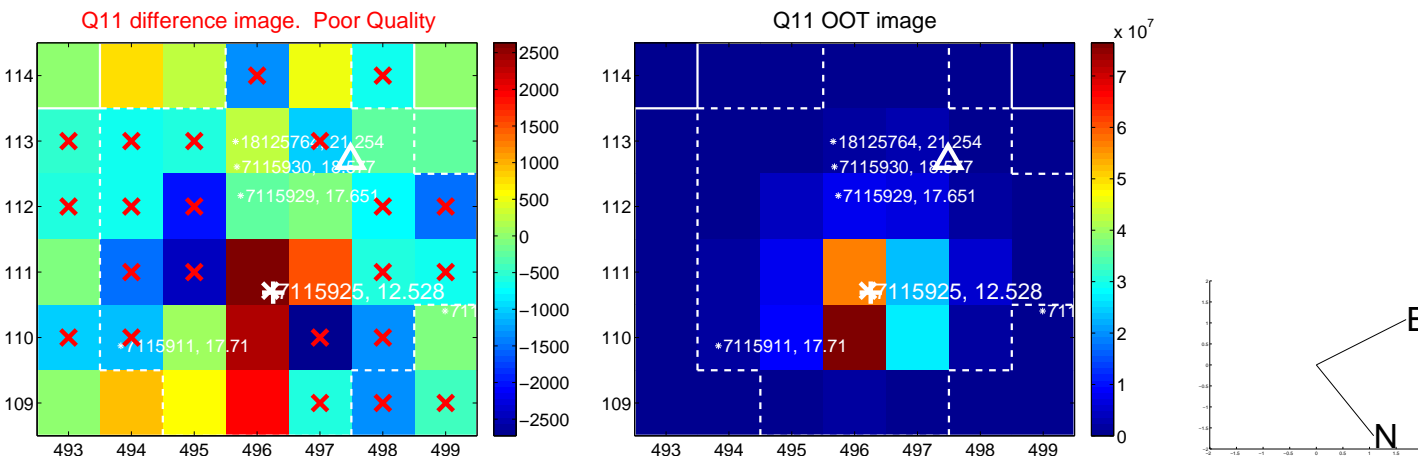
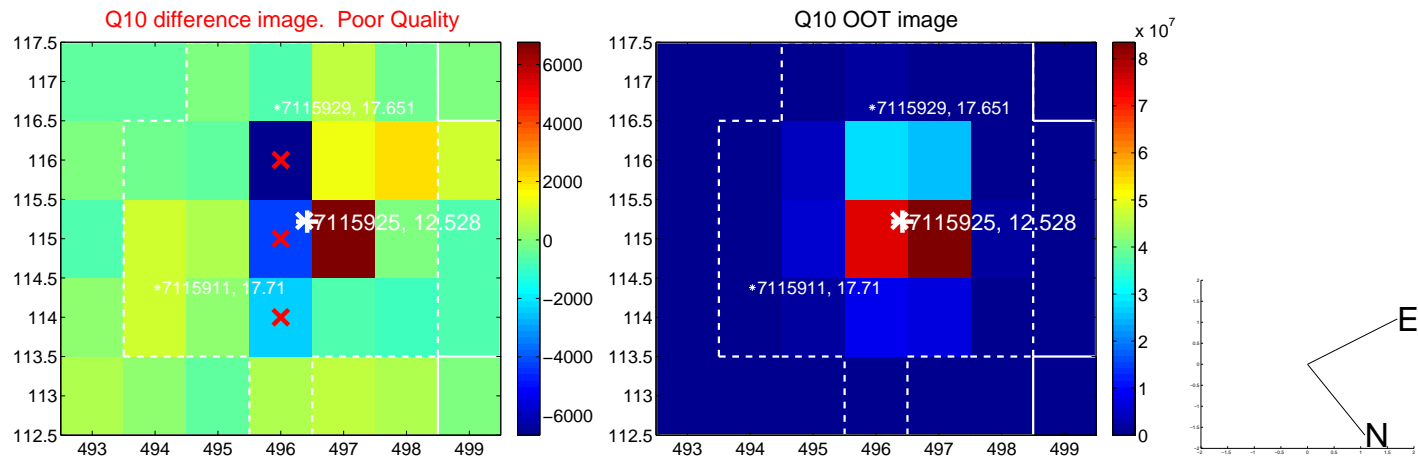
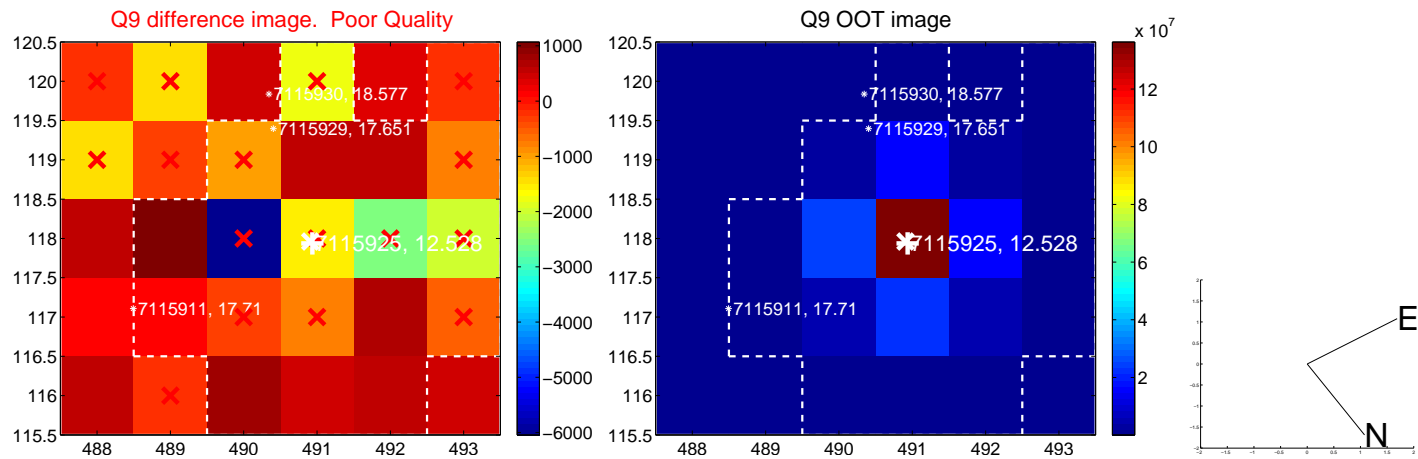
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



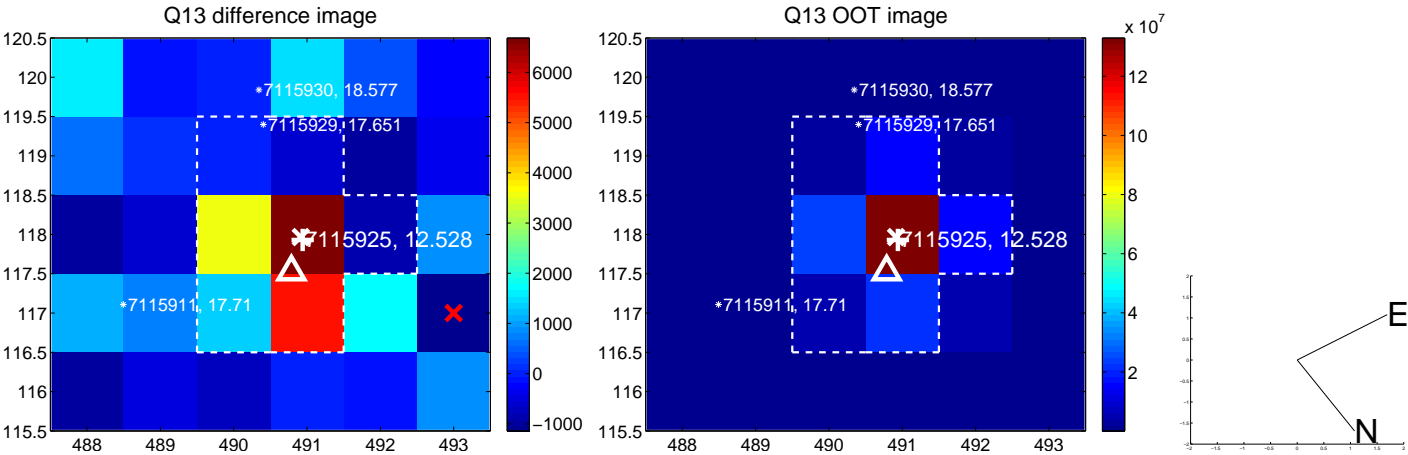
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



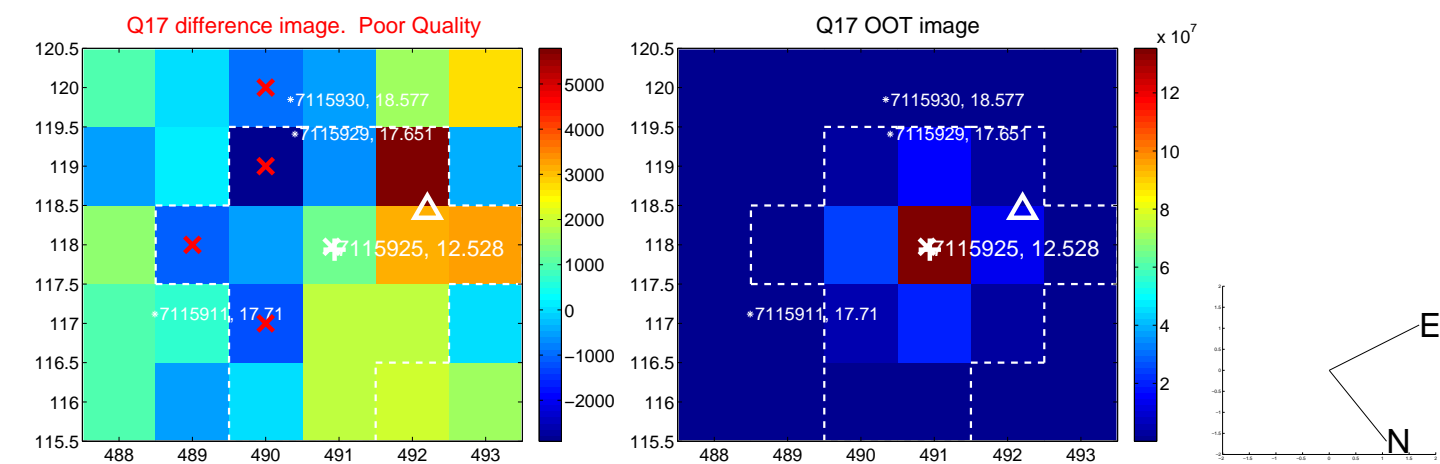
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



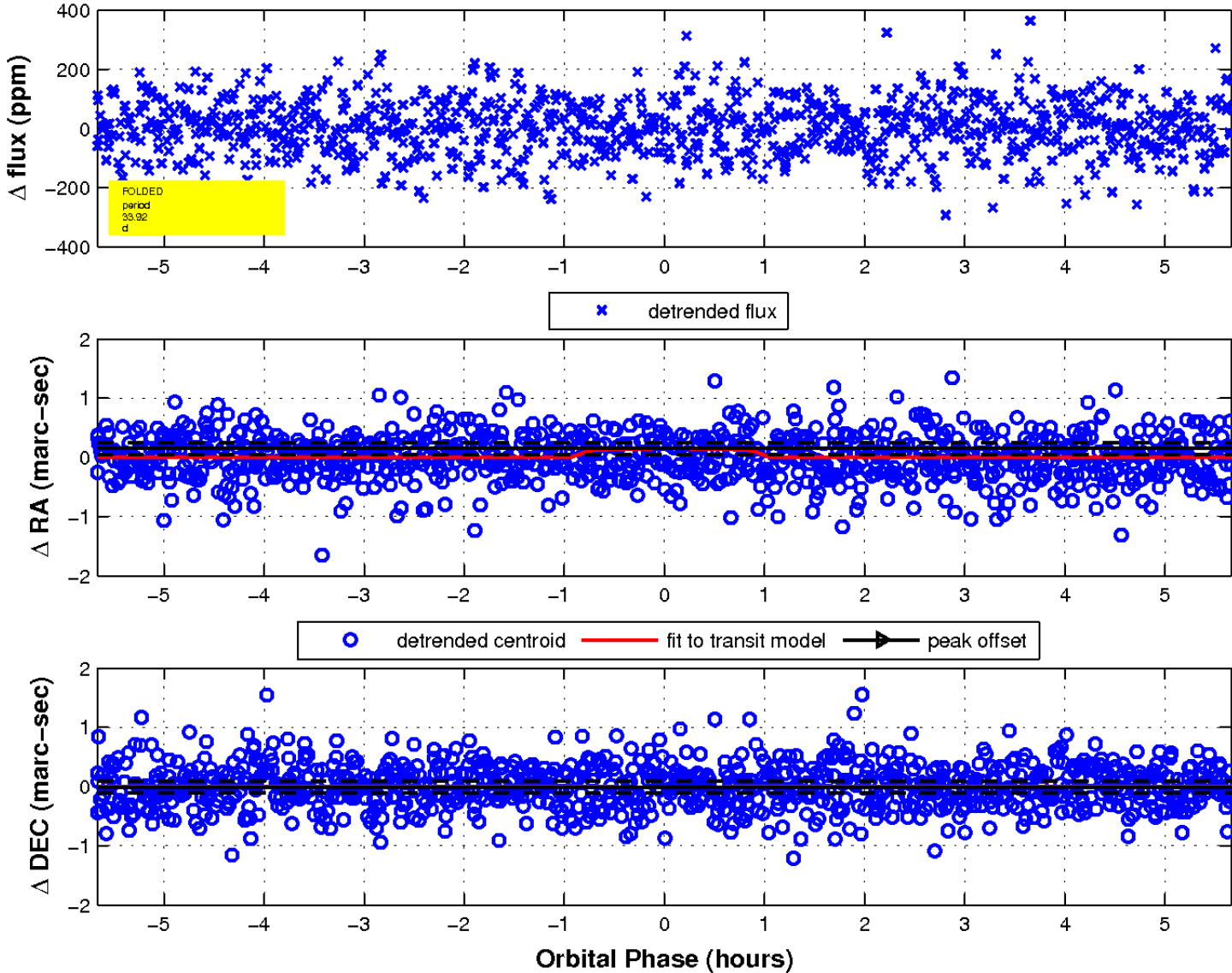
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

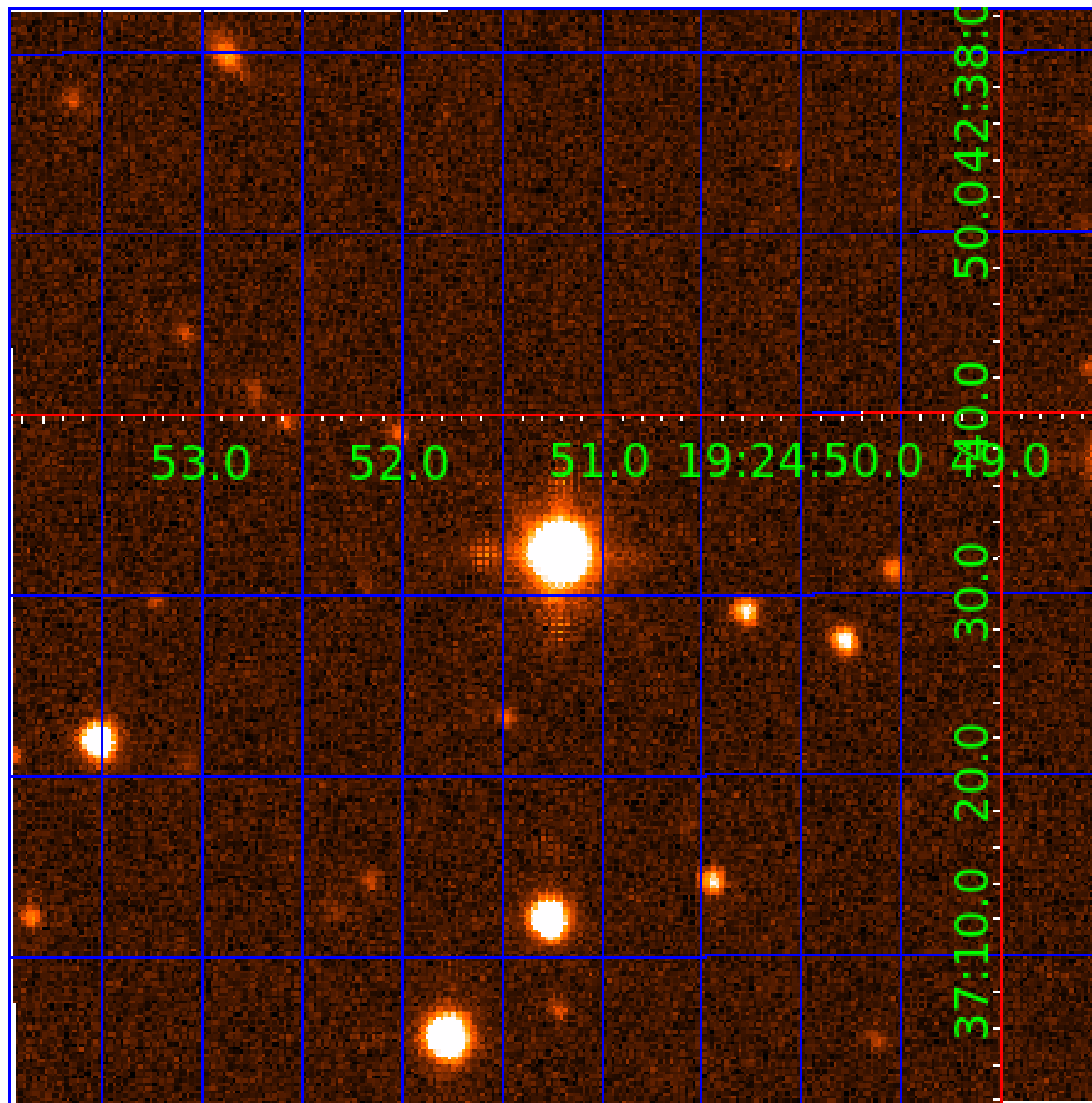


fluxWeightedCentroids, Planet 5 of 6



UKIRT Image

Declination



KIC 007115925

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})
007115925-01	OBS	4258.01	0.566768	131.837309	7.9	3.963	13.4	9.0	1.69	6287	0.51	19644.11
007115925-02	OBS	No	16.321569	132.814450	226.3	0.680	11.2	10.7	1.69	6287	2.60	222.55
007115925-03	OBS	No	32.844297	164.004936	169.4	1.485	12.9	10.3	1.69	6287	2.46	87.60
007115925-04	OBS	No	35.096107	161.770551	205.6	1.013	10.1	10.5	1.69	6287	2.74	80.19
007115925-05	OBS	No	33.916479	142.603613	144.5	1.890	10.8	10.1	1.69	6287	2.26	83.92
007115925-06	OBS	No	49.920369	162.170442	189.6	1.481	10.9	11.4	1.69	6287	2.36	50.13

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007115925-01	OBS	FP	0.00	1	0	0	1	LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS—EPHEM_MATCH
007115925-02	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—HALO_GHOST
007115925-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
007115925-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
007115925-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV
007115925-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—CENT_FEW_MEAS

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 007115925-06

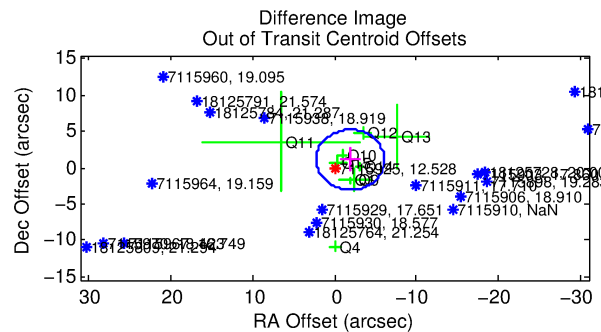
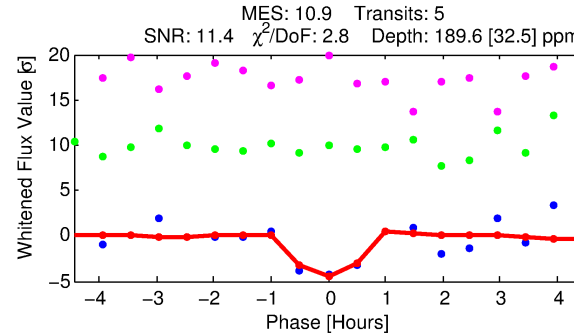
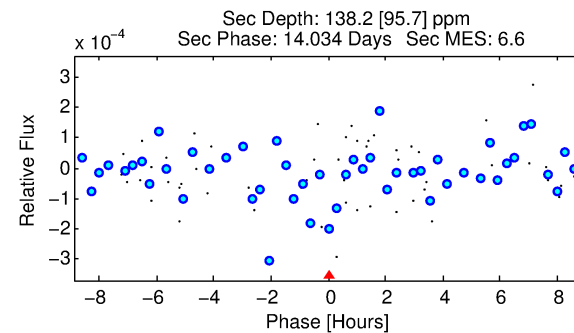
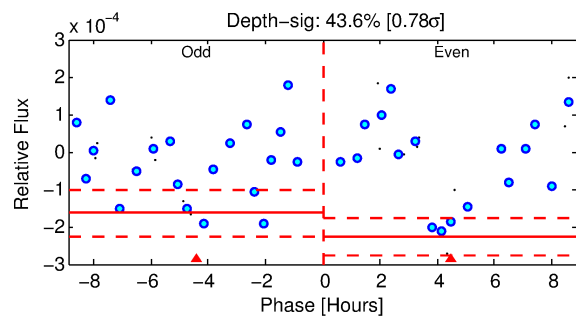
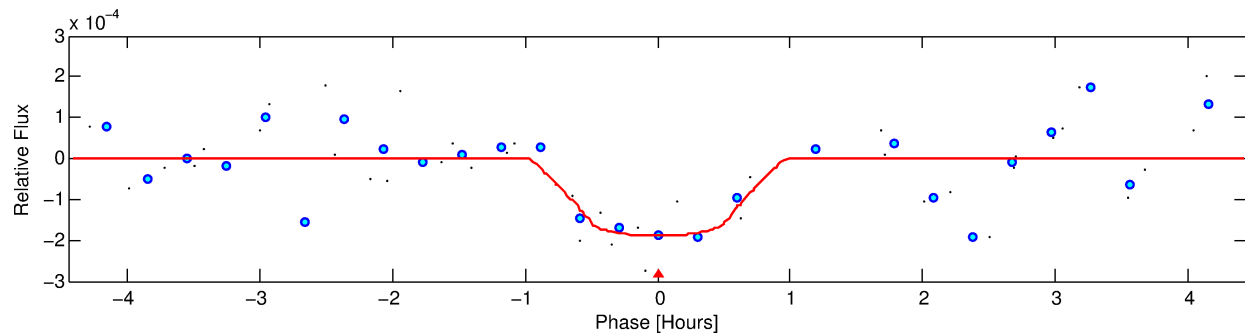
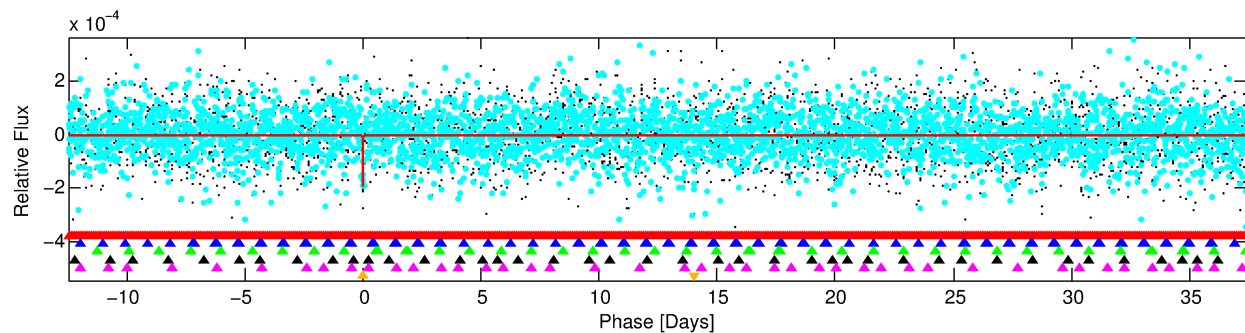
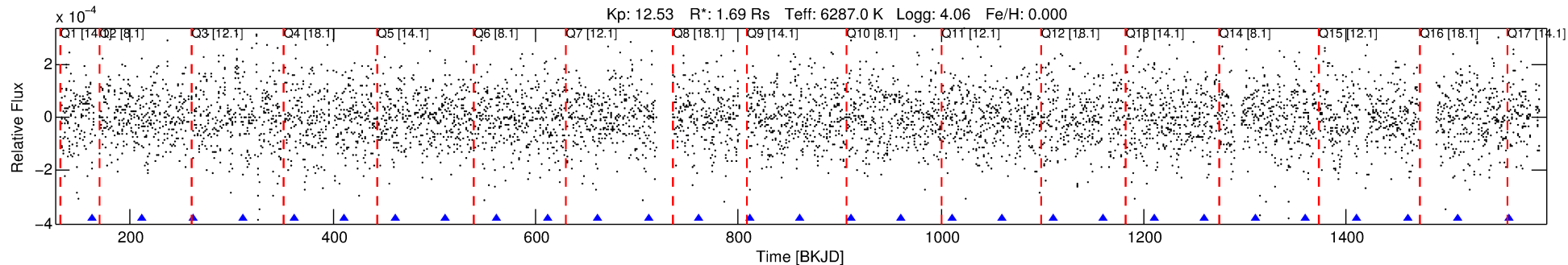
No Significant Match Found

DV One-Page Summary

KIC: 7115925 Candidate: 6 of 6 Period: 49.920 d

KOI: K04258 Corr: No Ephemeris Match

Kp: 12.53 R*: 1.69 Rs Teff: 6287.0 K Logg: 4.06 Fe/H: 0.000



DV Fit Results:

Period = 49.92037 [0.00046] d
Epoch = 162.1704 [0.0090] BKJD
Rp/R* = 0.0128 [0.0243]
b/R* = 248.98 [2328.71]
b = 0.30 [28.63]
Seff = 50.13 [20.63]
Teq = 678 [70] K
Rp = 2.36 [4.53] Re
a = 0.2829 [0.0711] AU
Ag = 1089.15 [4220.51] [0.26σ]
Teffp = 6026 [5811] K [0.92σ]

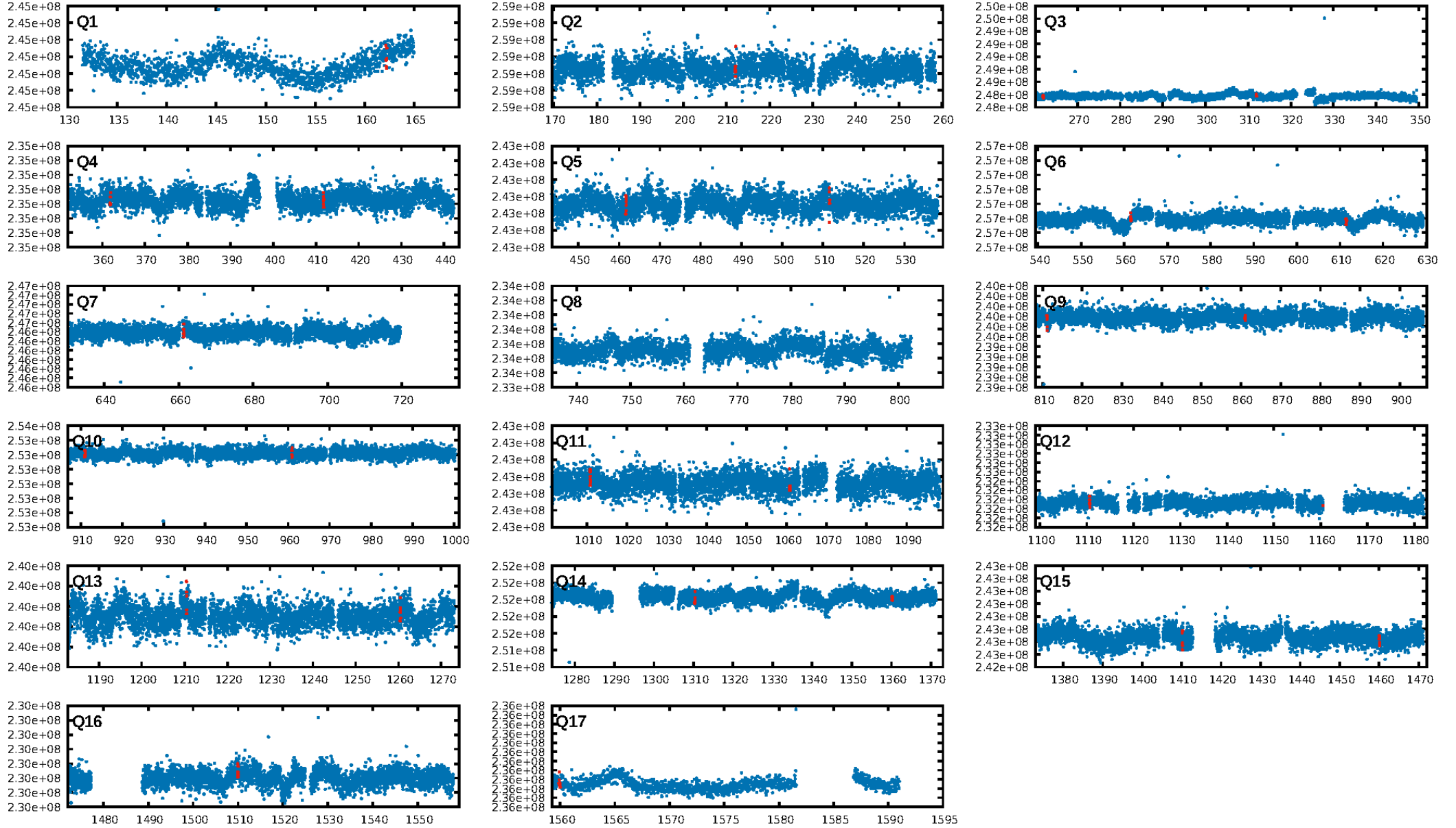
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [198.24σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 13.5%
ModelChiSquareGof-sig: 87.9%
Bootstrap-pfa: 8.00e-09
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 0.7194
Centroid-sig: 0.2%
Centroid-so: 1.801 arcsec [2.57σ]
OotOffset-rm: 2.180 arcsec [1.57σ]
KicOffset-rm: 2.196 arcsec [1.53σ]
OotOffset-st: 2/2/2/3 [9]
KicOffset-st: 2/2/2/3 [9]
DiffImageQuality-fgm: 0.22 [2/9]
DiffImageOverlap-fno: 0.00 [0/13]

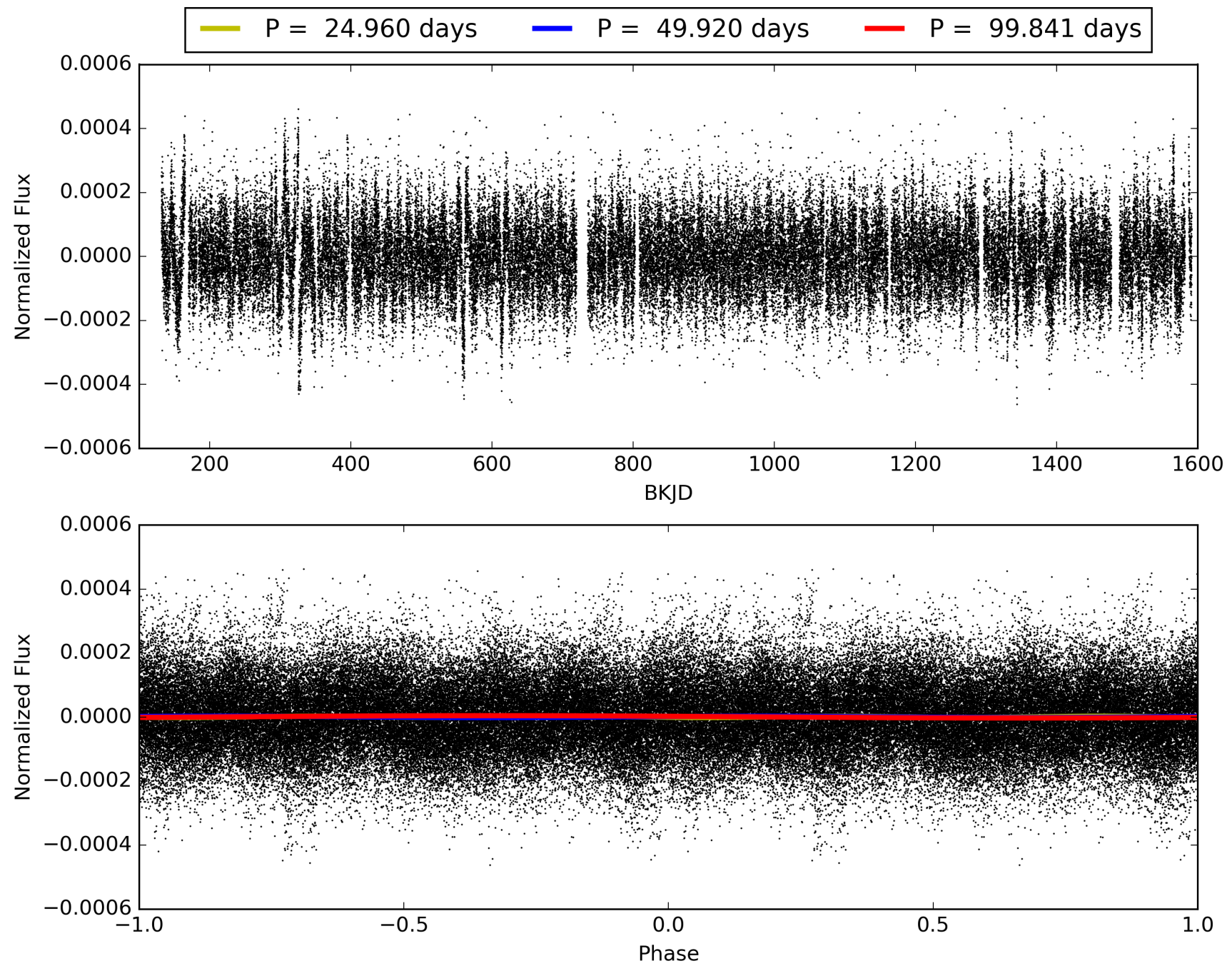
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:52:12 Z

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

TCE 007115925-06, PDC Light Curves

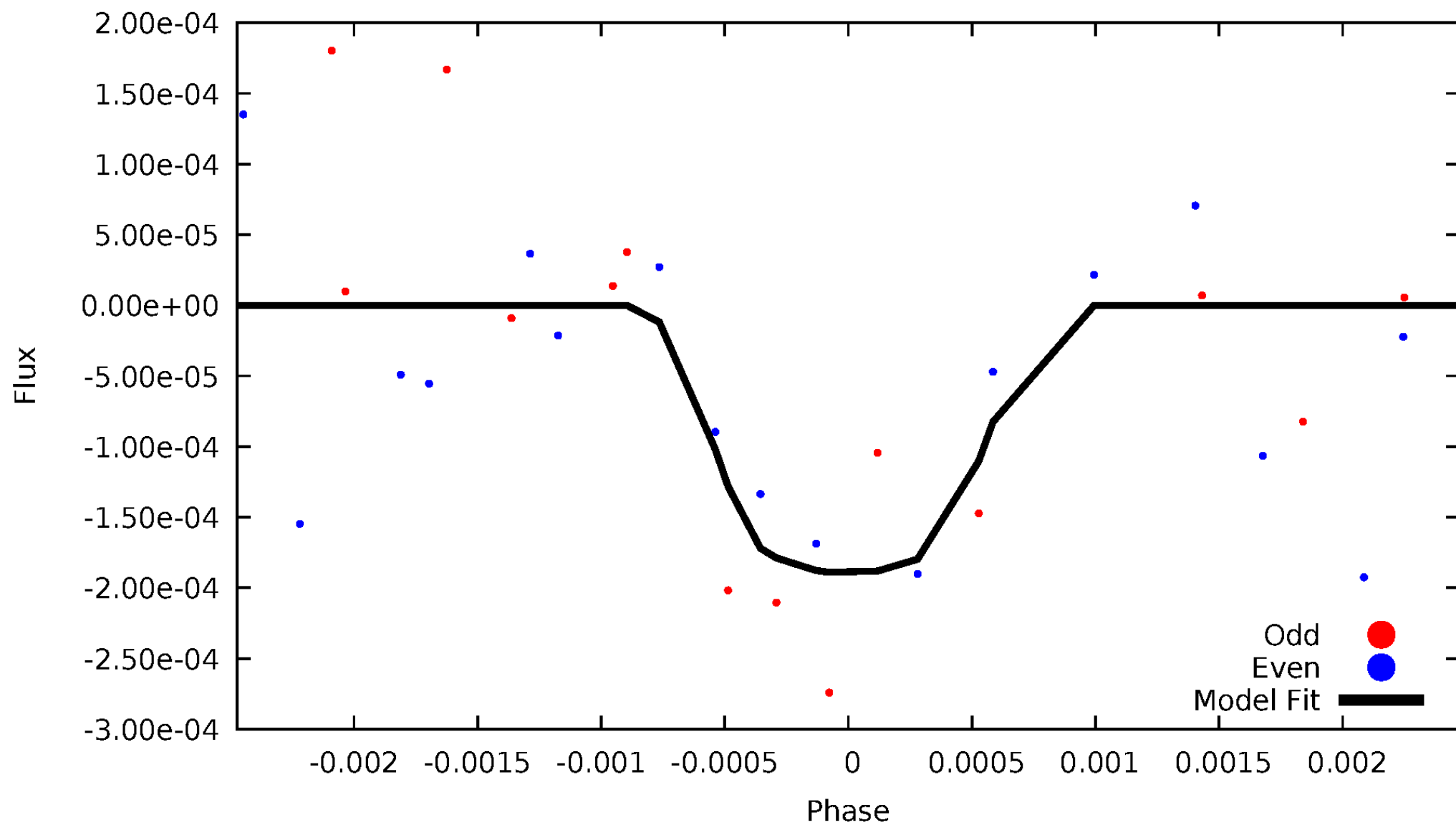


TCE 007115925-06



DV Odd/Even

TCE 007115925-06

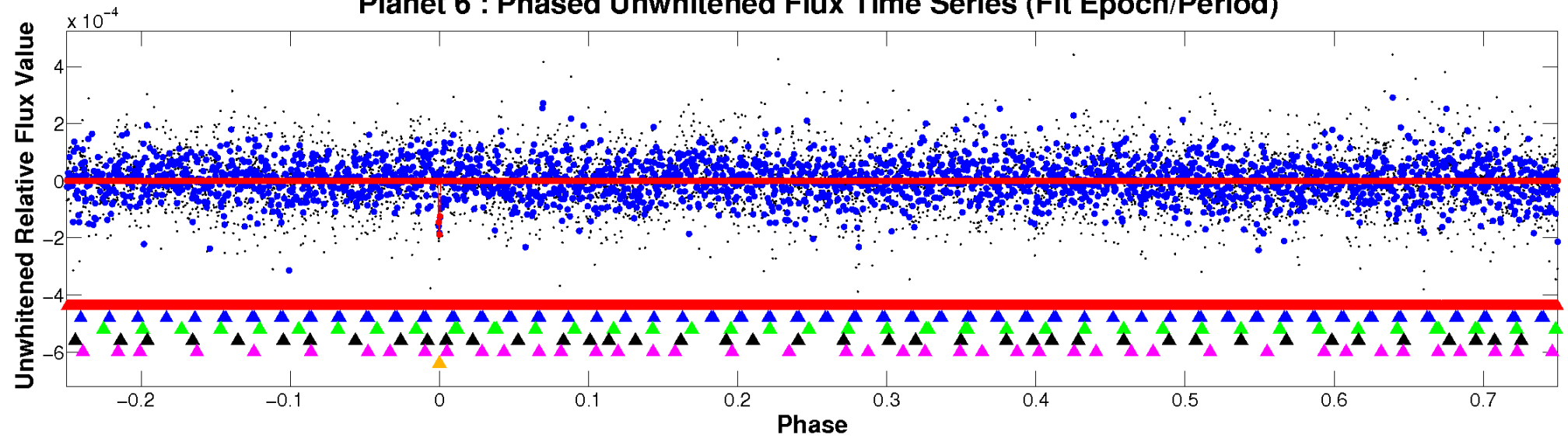


ALT Odd/Even

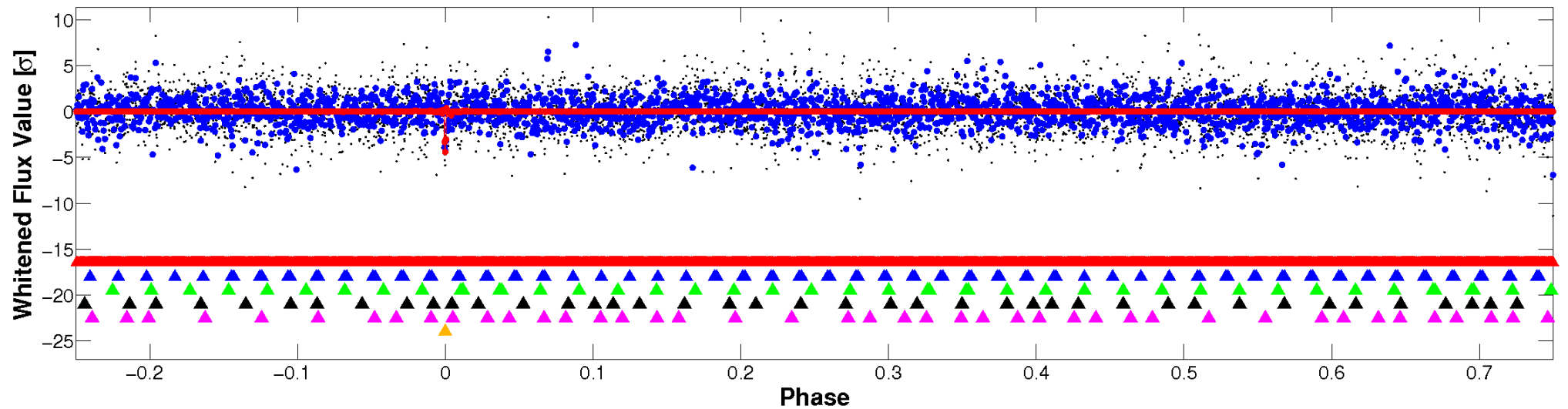
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

Planet 6 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

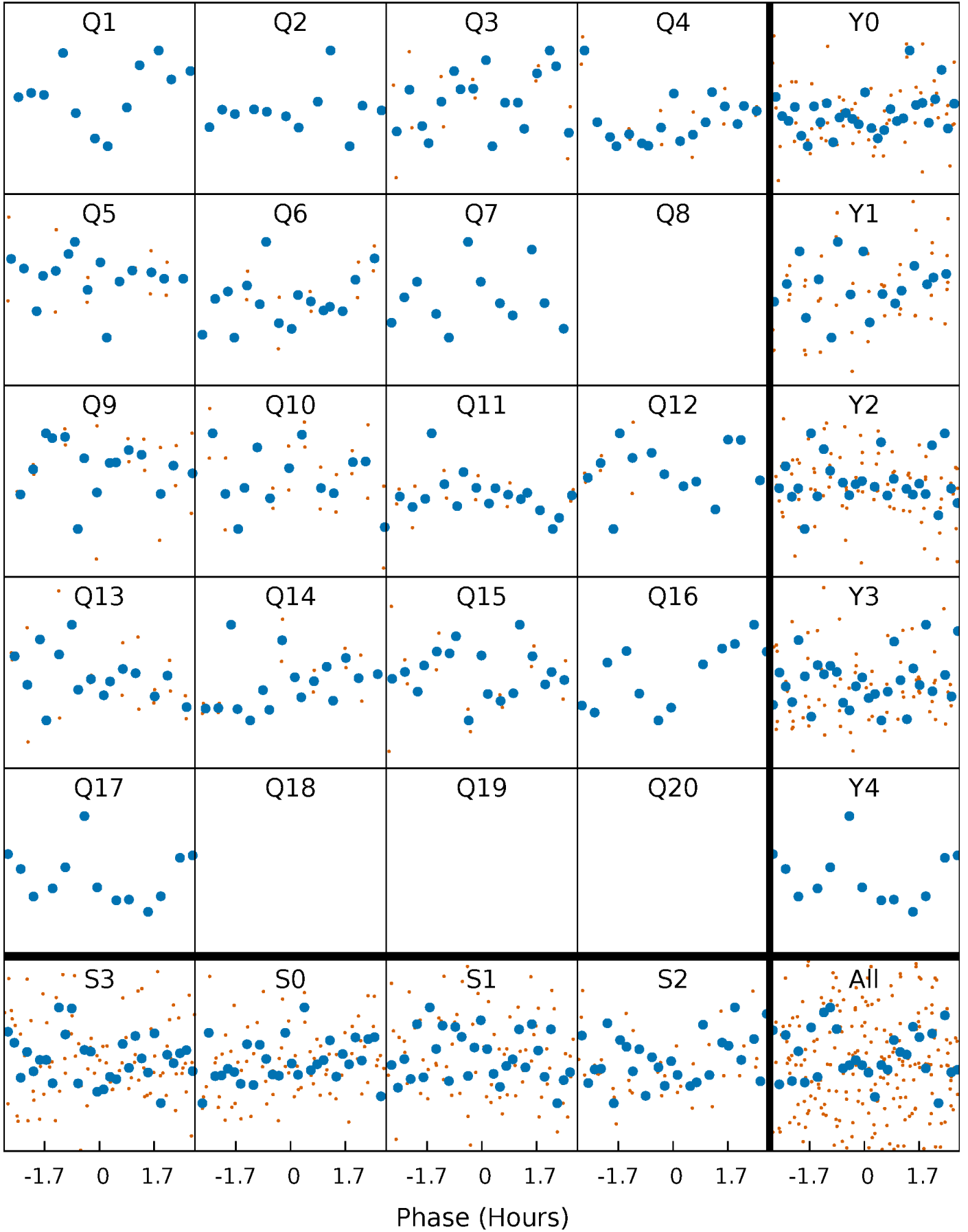


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



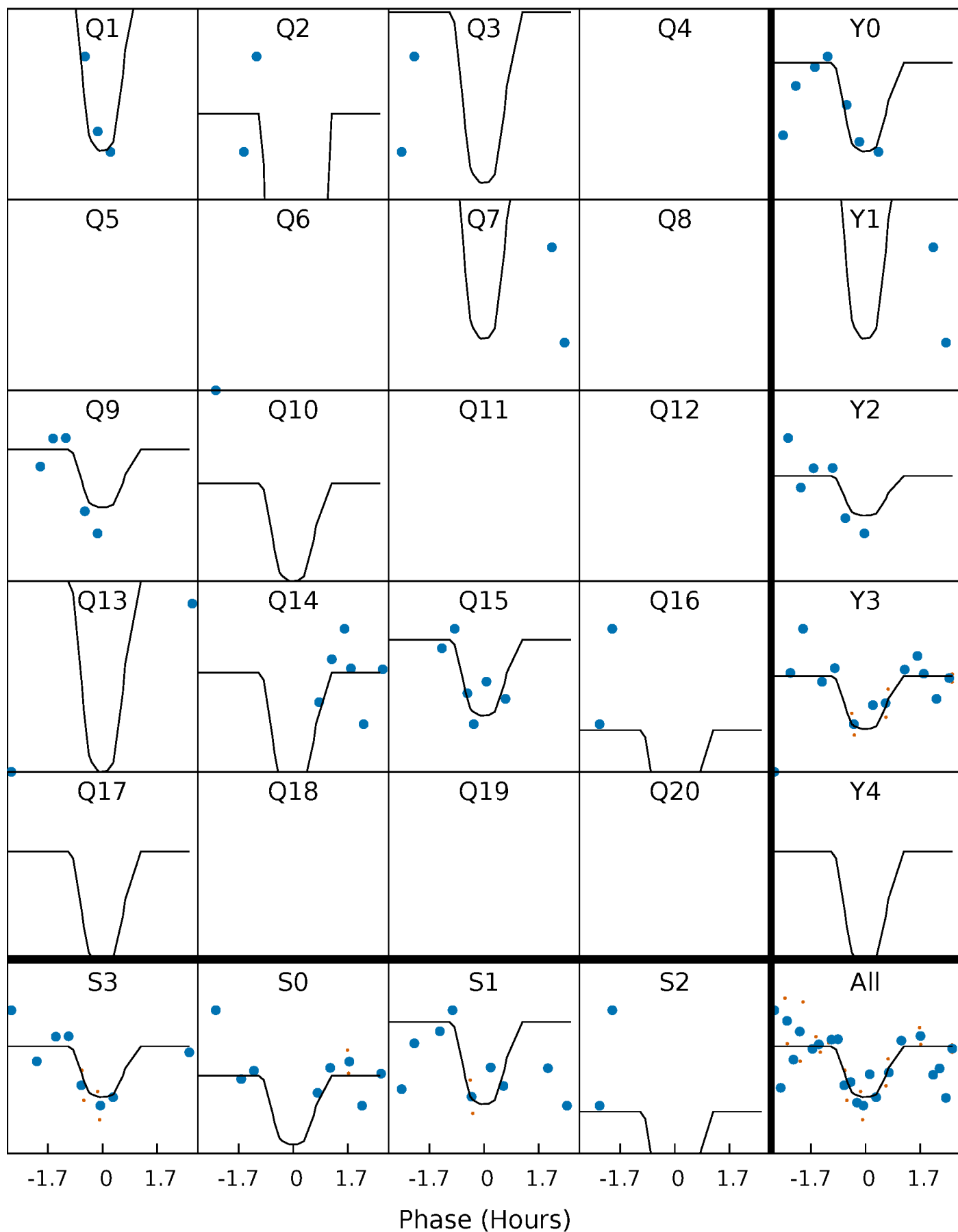
PDC Quarter-Phased Transit Curves

TCE 007115925-06 P= 49.920369 Days $T_0=162.170442$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 007115925-06 P= 49.920369 Days $T_0=162.170442$ (BKJD)

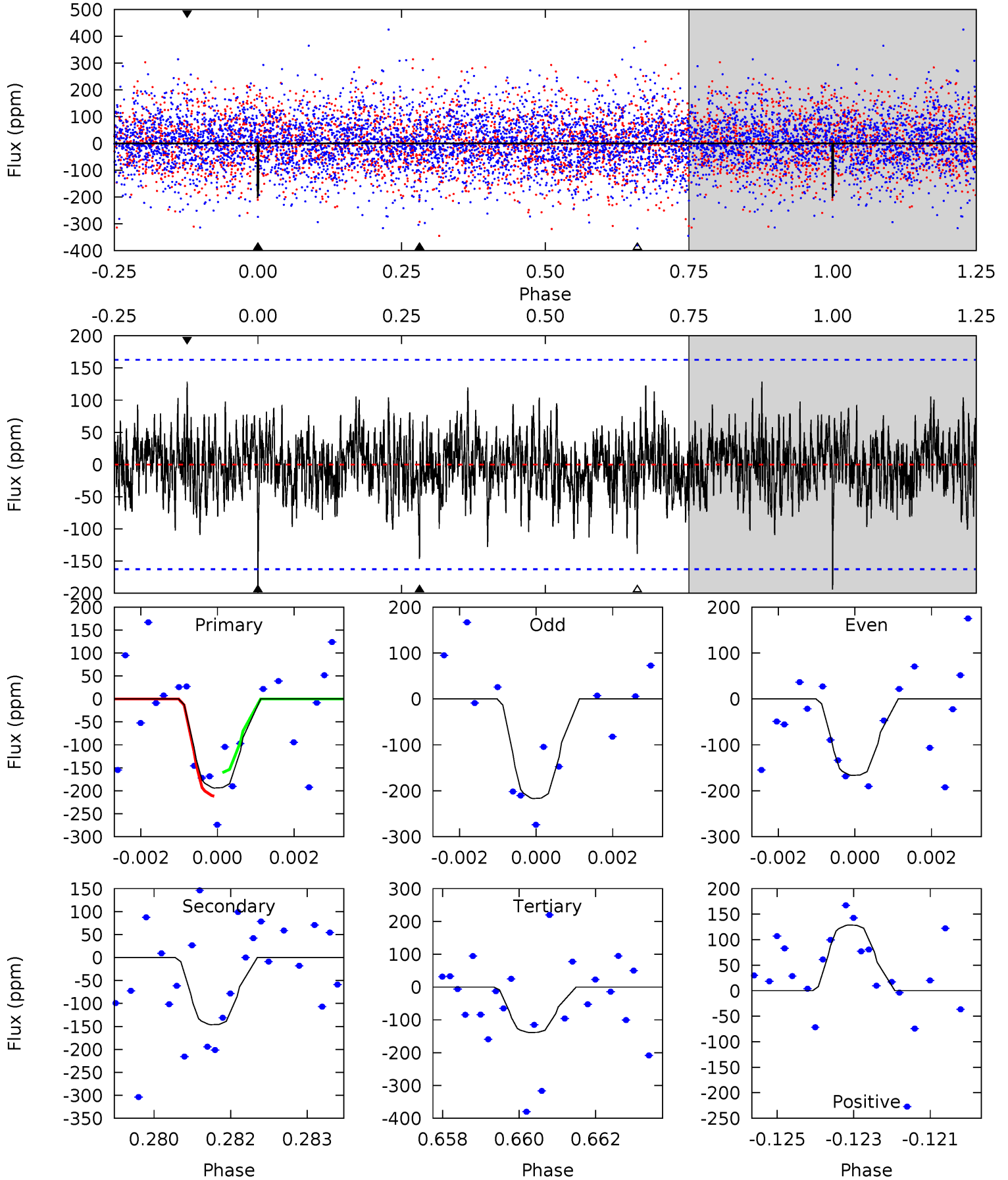


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

007115925-06, P = 49.920369 Days, E = 112.250073 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.38	4.81	4.56	4.23	5.35	3.13	1.26	1.82	2.15	0.25	0.58	0.87	1.10	0.40	0.83



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 007115925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6287^{+169}_{-188}	$4.064^{+0.228}_{-0.123}$	$0.000^{+0.250}_{-0.250}$	$1.693^{+0.375}_{-0.458}$	$1.211^{+0.190}_{-0.172}$	$0.352^{+0.452}_{-0.139}$
	+3%/-3%	+6%/-3%	+inf%/-inf%	+22%/-27%	+16%/-14%	+129%/-39%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 007115925-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-146 ± 30	$4.13^{+3.68}_{-2.78}$	940^{+59}_{-73}	4691^{+3464}_{-971}	372^{+3289}_{-268}
Alt.	N/A	N/A	N/A	N/A	N/A

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 $A_{obs} \gg 1.0$

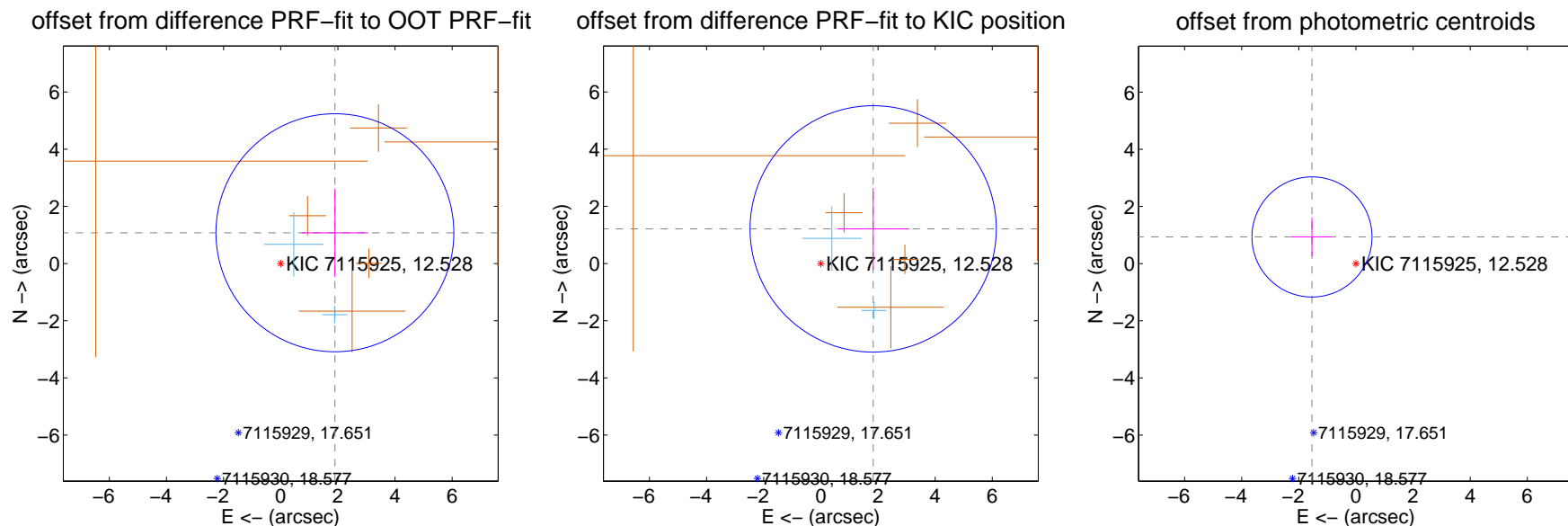
DV Centroid Data

Supplemental centroid analysis for 007115925-06. Kepler magnitude: 12.53. Transit SNR 11.43

There are 2 quarters with good PRF difference image offsets

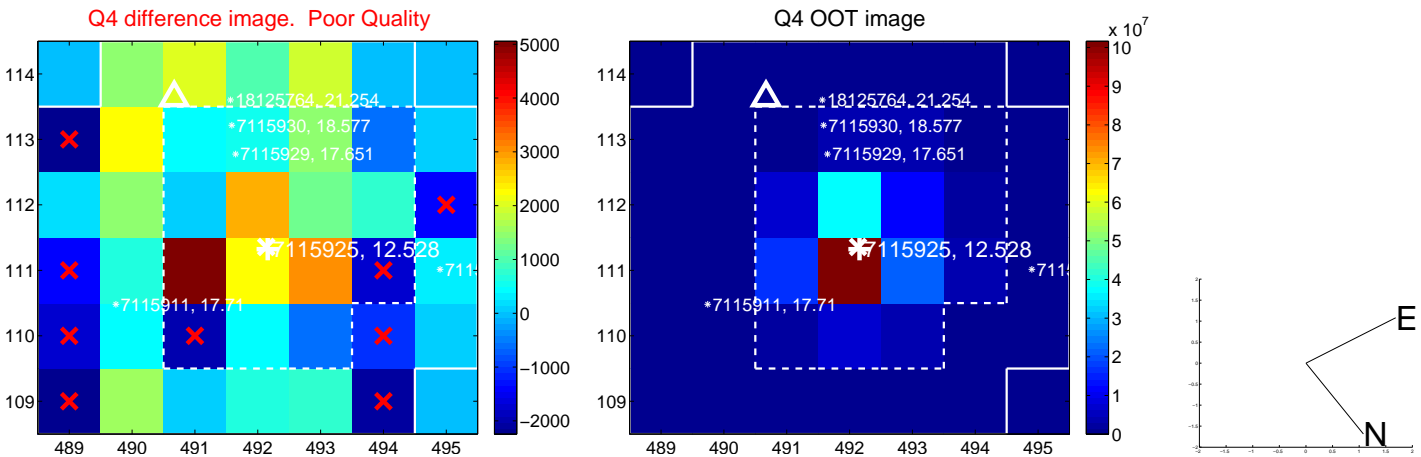
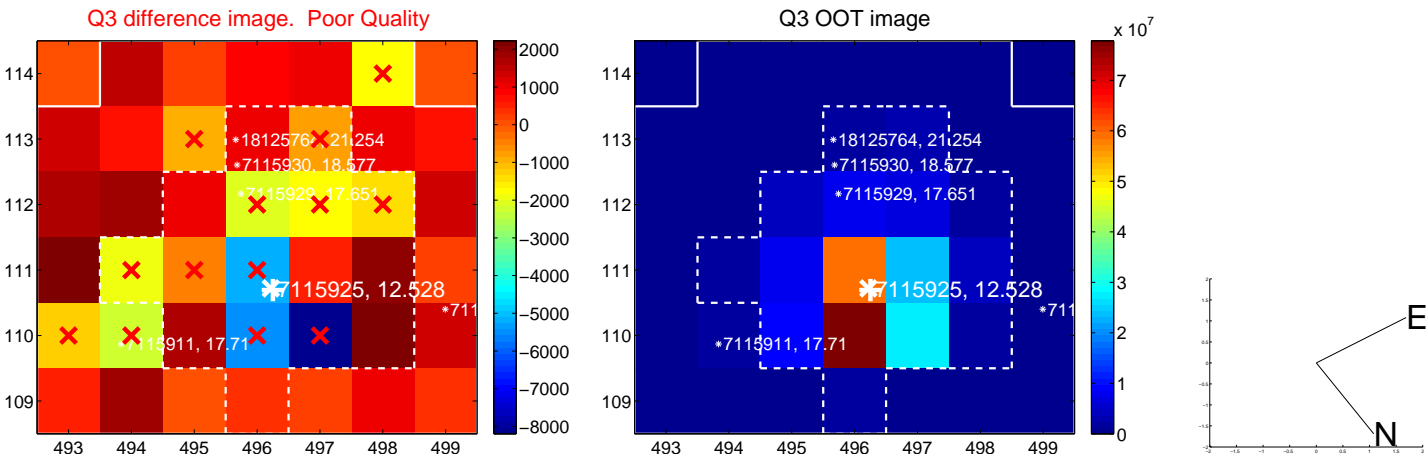
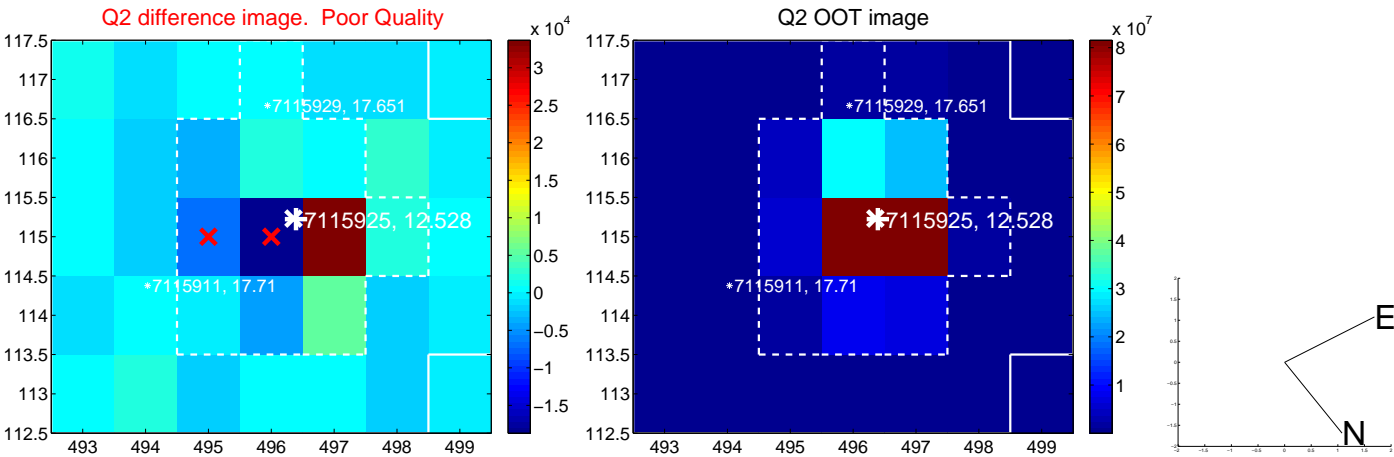
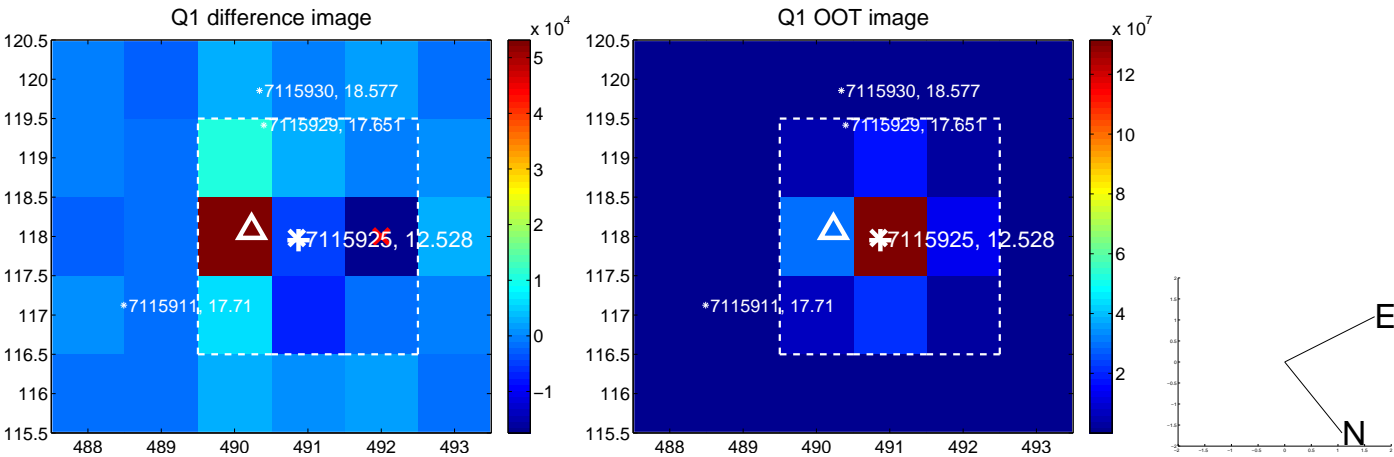
The direct PRF centroid is offset from the target star catalog position by about 0.22 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.180 ± 1.388	1.57	-1.896 ± 1.164	1.077 ± 1.549
PRF-fit source offset from KIC position	2.196 ± 1.437	1.53	-1.831 ± 1.250	1.212 ± 1.430
photometric centroid source offset	1.80 ± 0.70	2.57	1.54 ± 0.71	0.93 ± 0.68

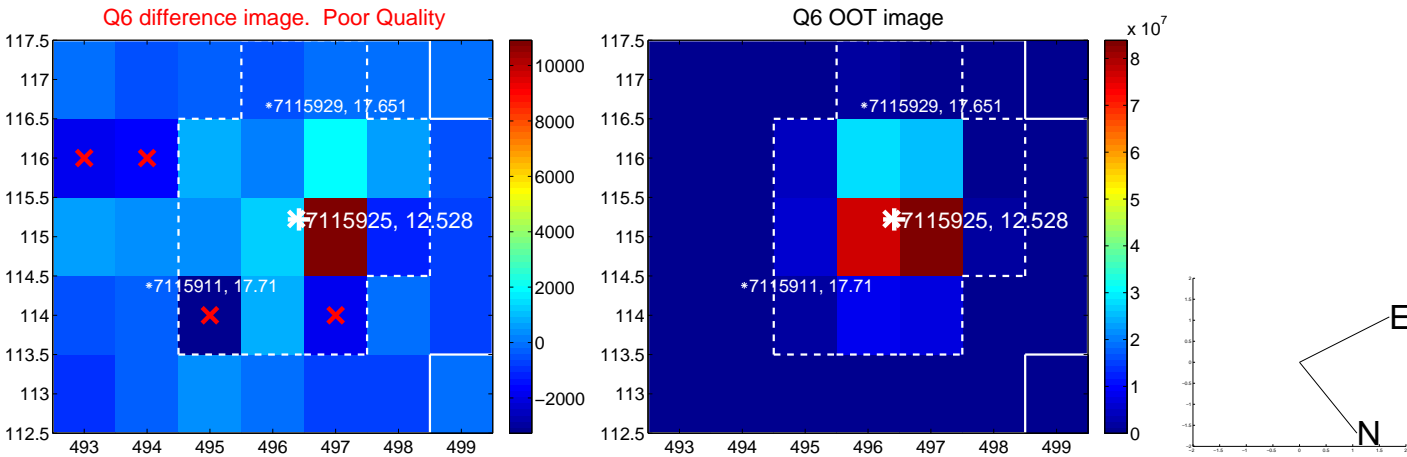
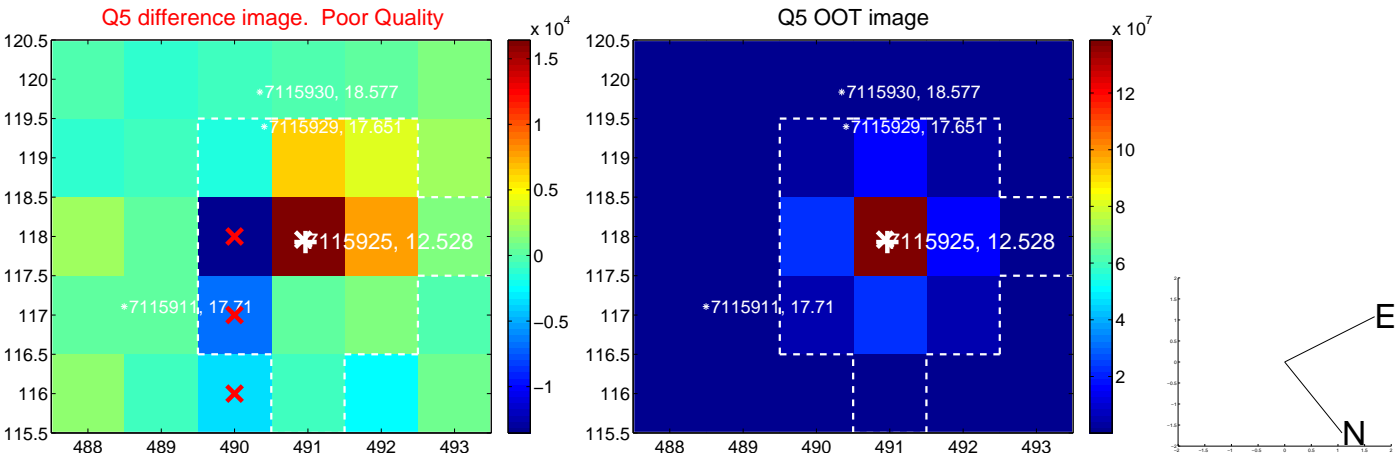


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

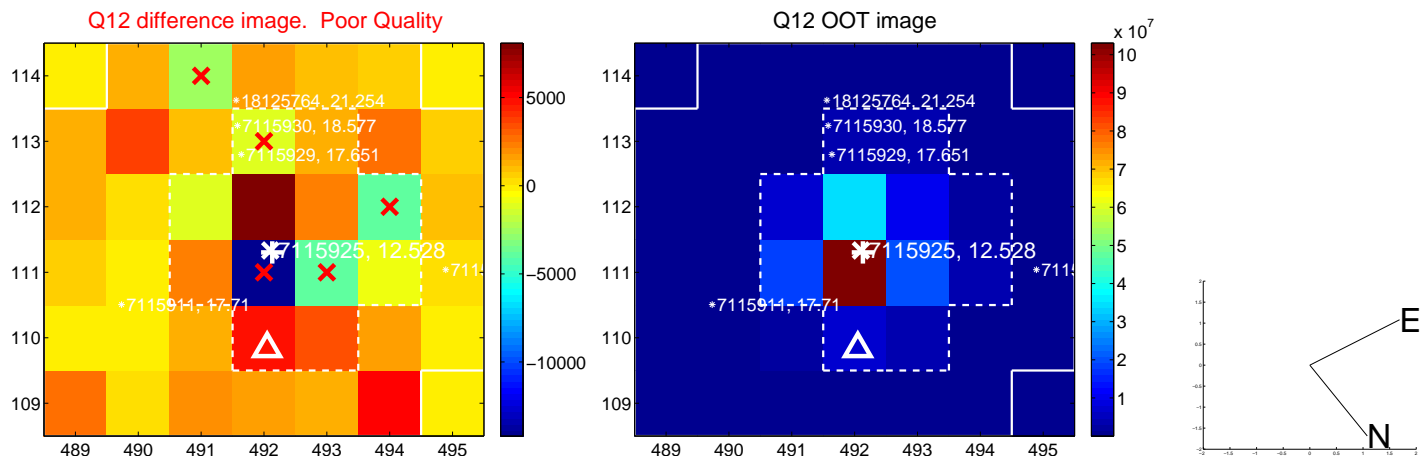
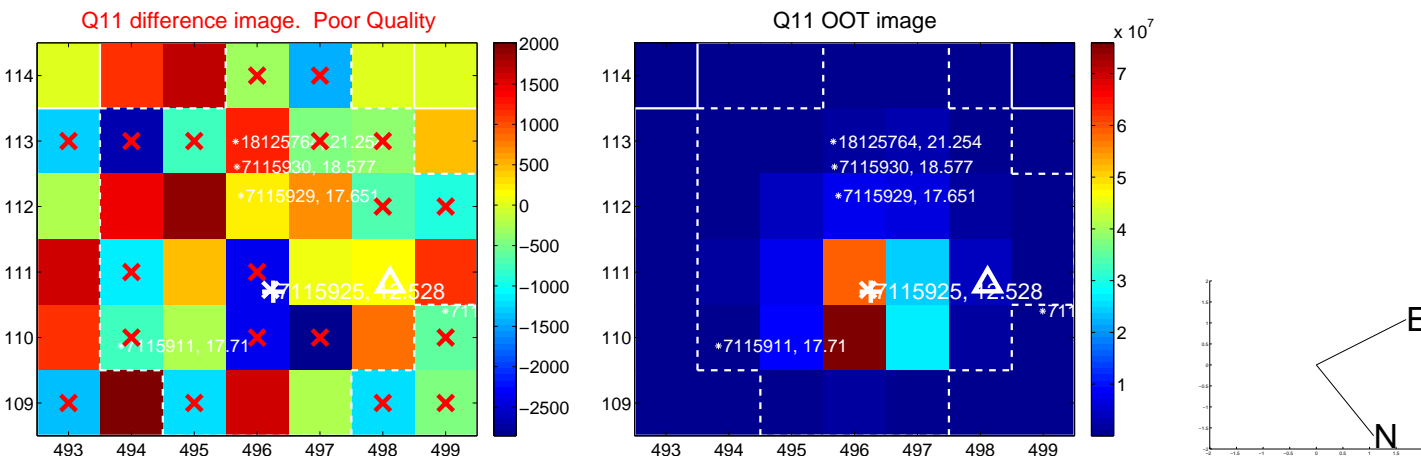
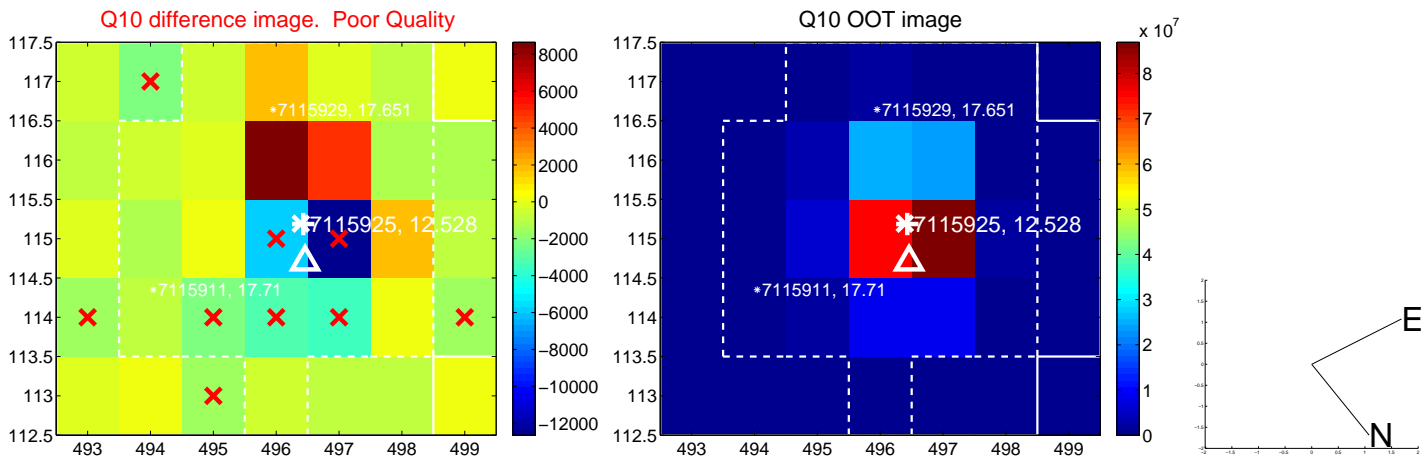
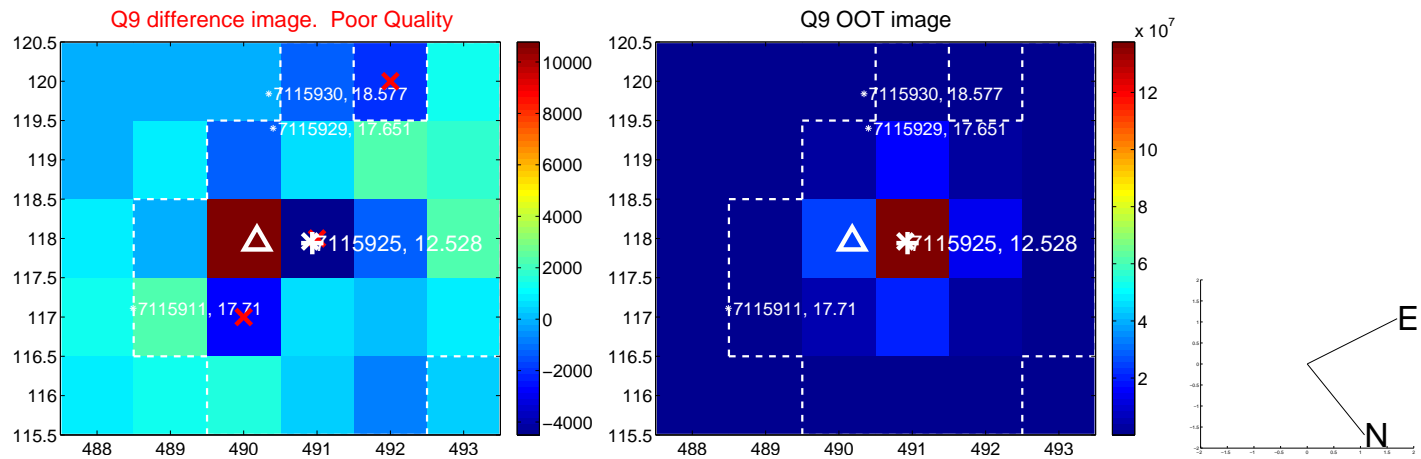
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



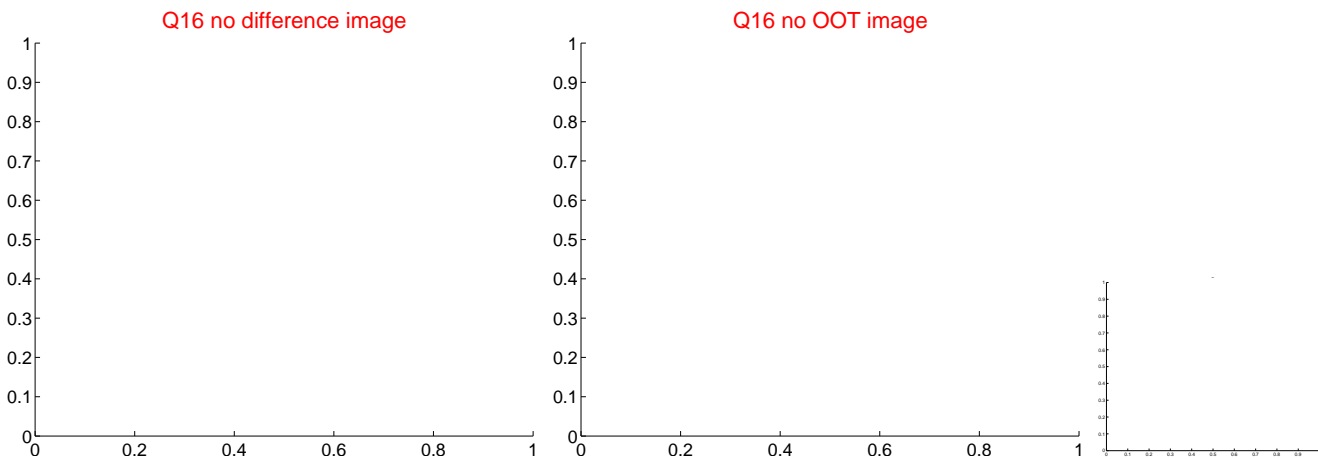
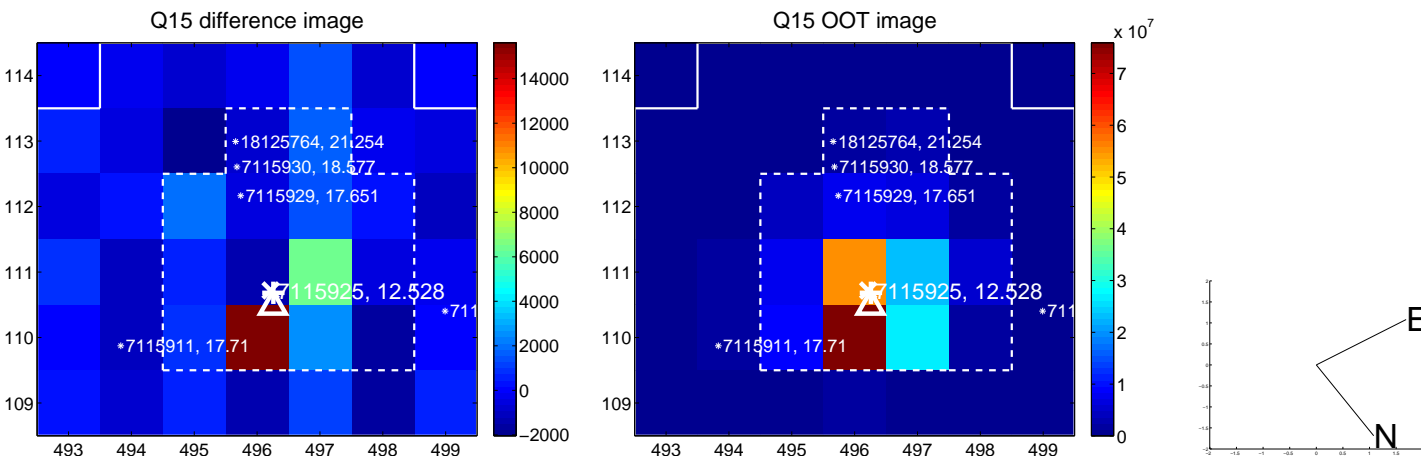
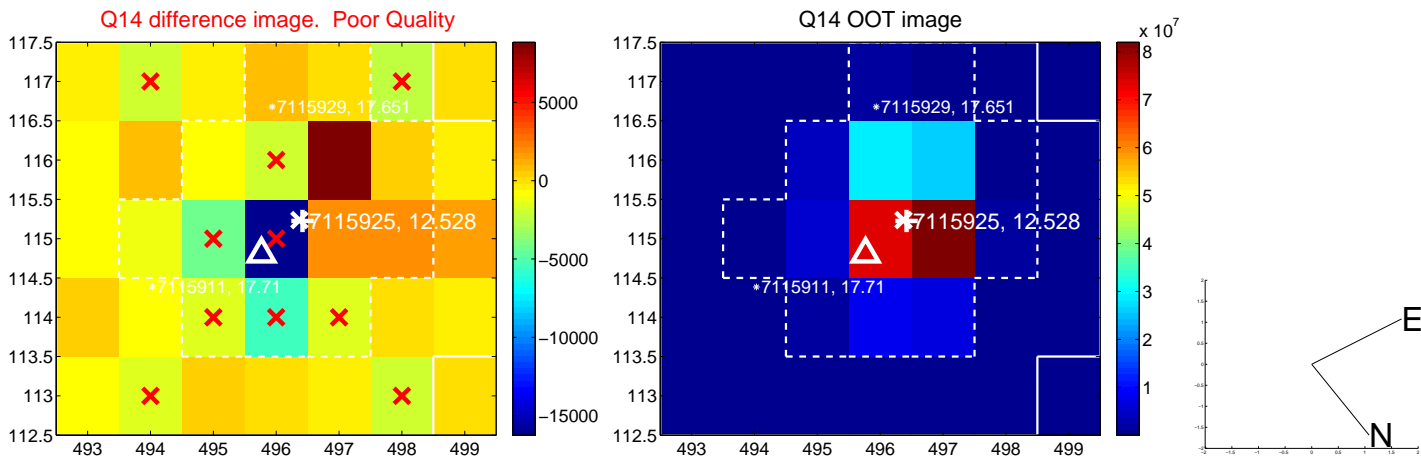
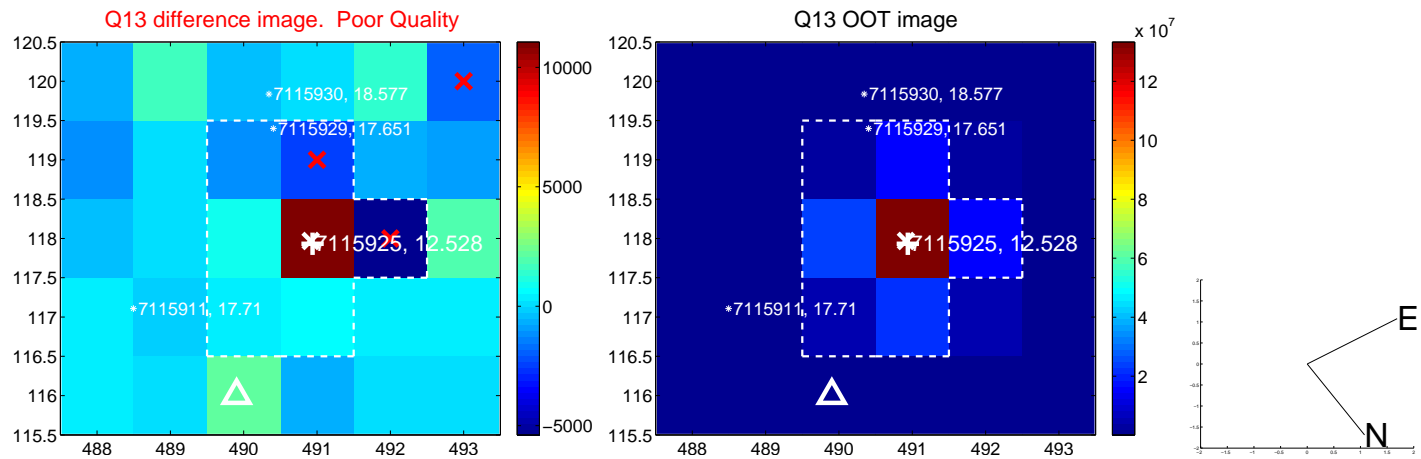
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



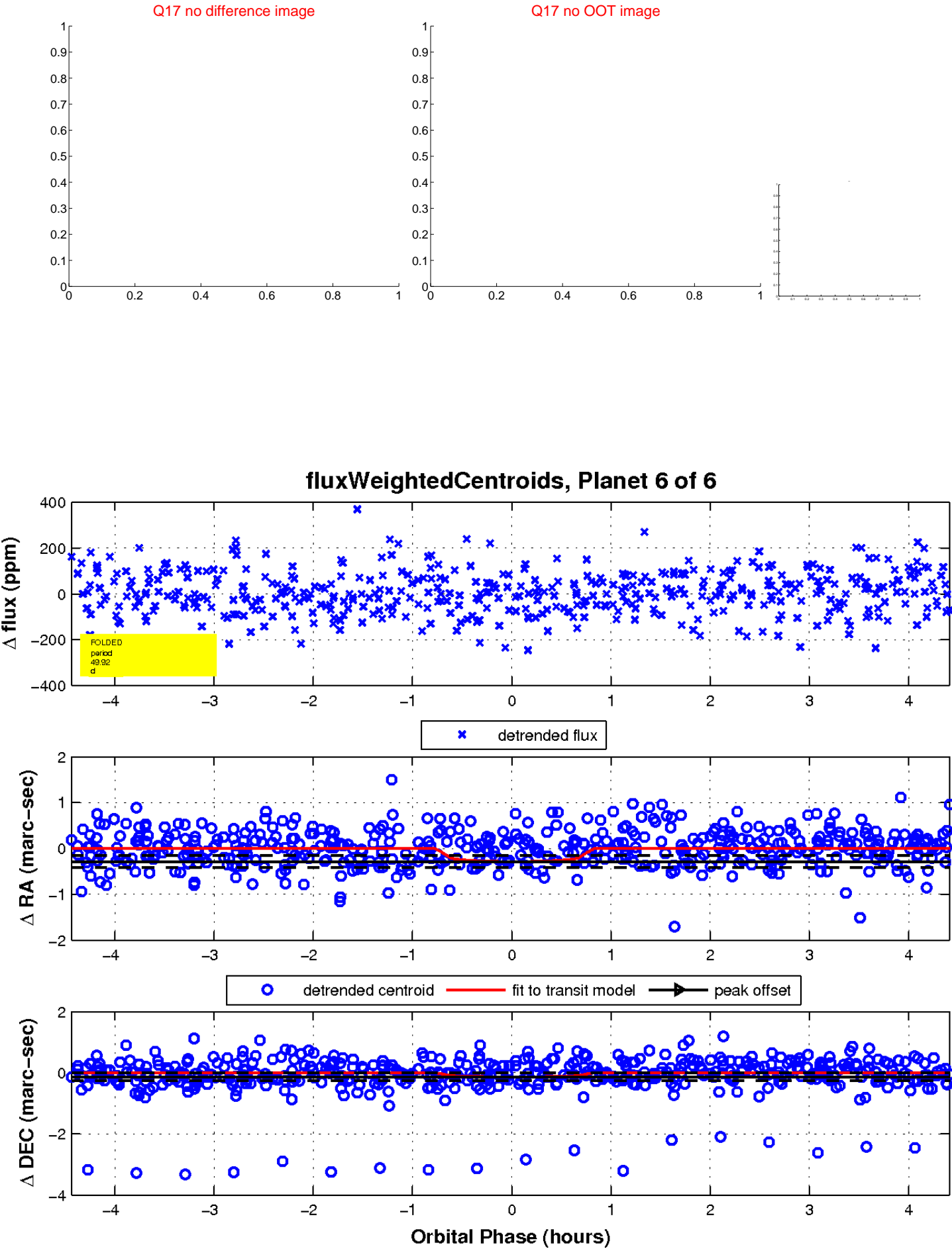
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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.



Declination