

KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

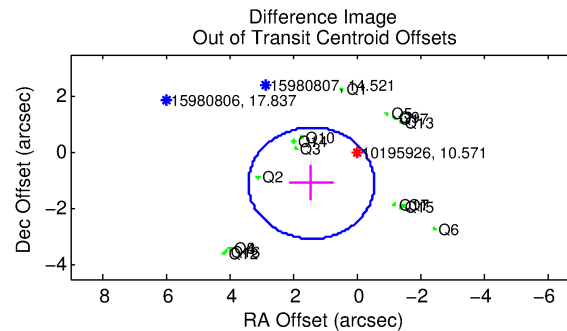
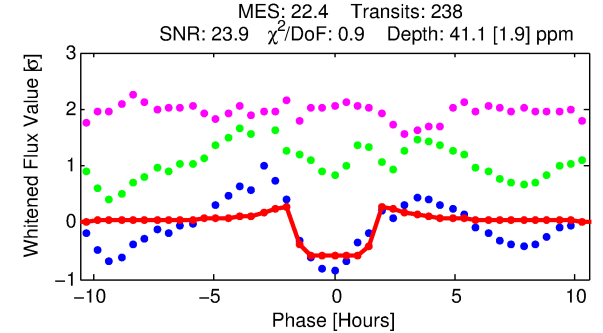
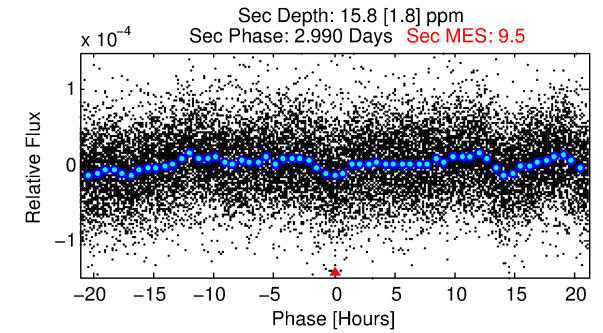
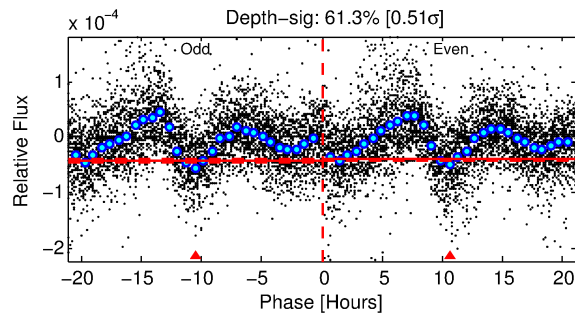
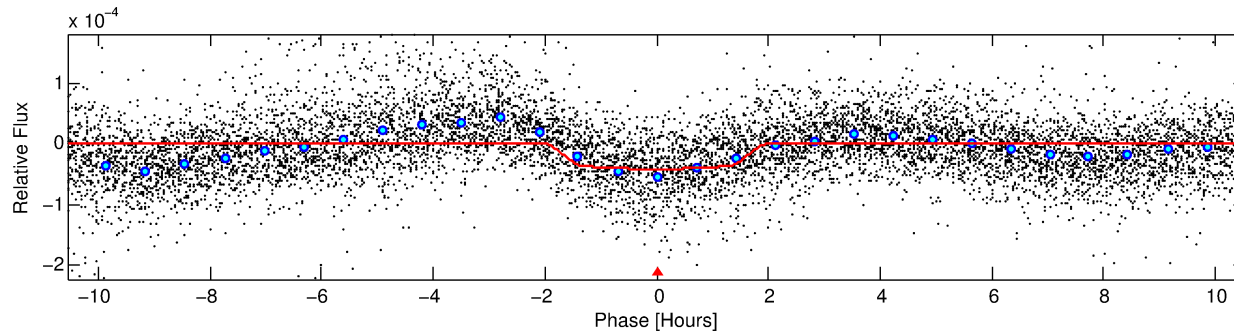
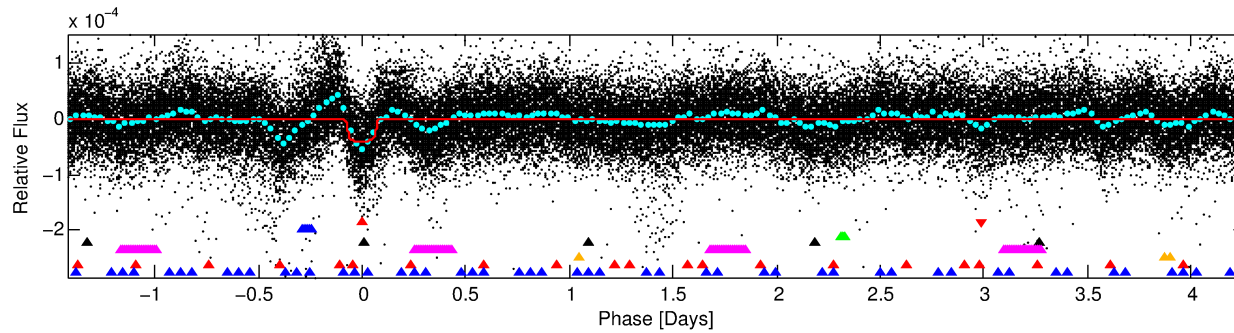
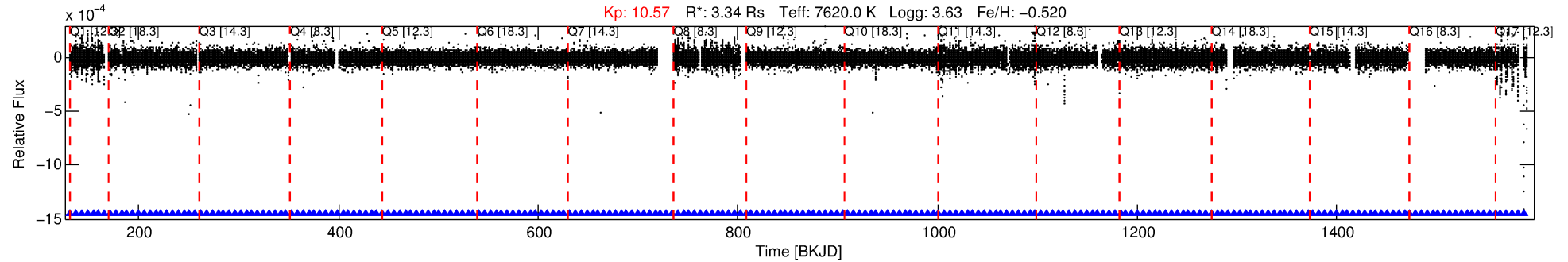
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-01

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 1 of 8 Period: 5.685 d



DV Fit Results:

Period = 5.68469 [0.00001] d
Epoch = 131.6058 [0.0016] BKJD
Rp/R* = 0.0069 [0.0007]
a/R* = 5.19 [3.35]
b = 0.92 [0.12]
Seff = 5972.86 [5668.05]
Teq = 2242 [532] K
Rp = 2.52 [1.40] Re
a = 0.0751 [0.0422] AU
Ag = 7.68 [7.42] [0.90 σ]
Teffp = 5770 [429] K [5.17 σ]

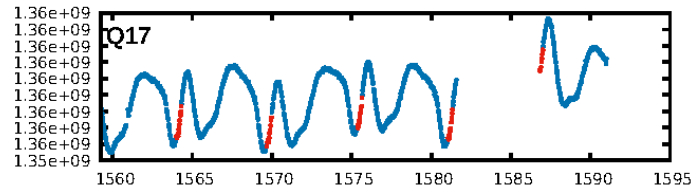
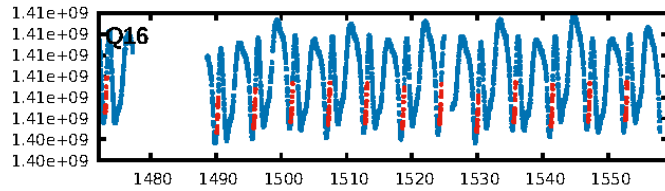
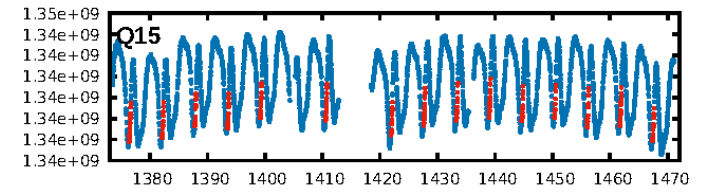
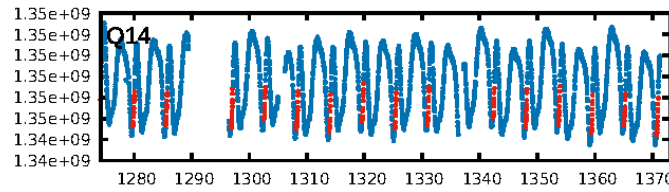
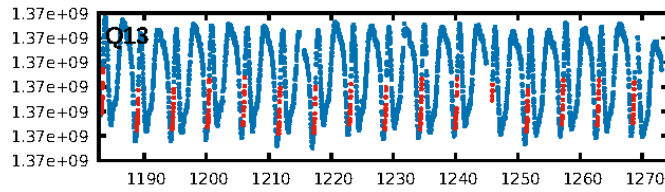
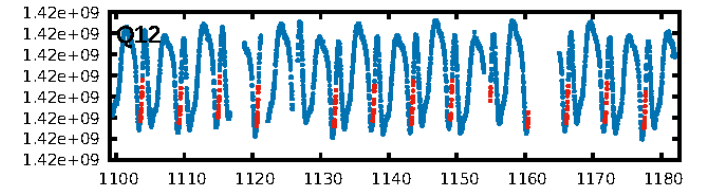
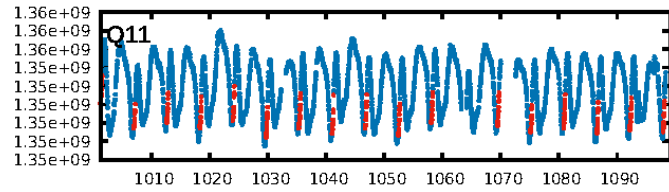
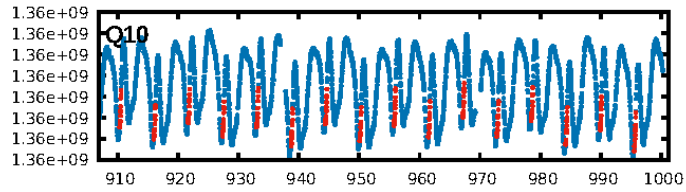
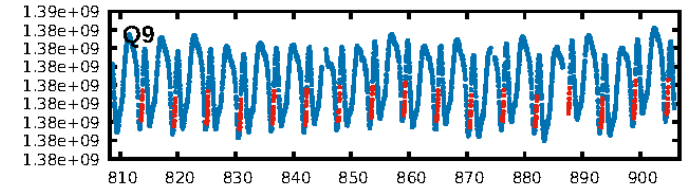
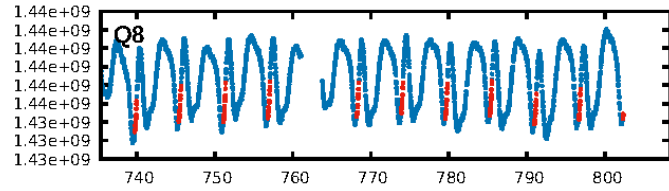
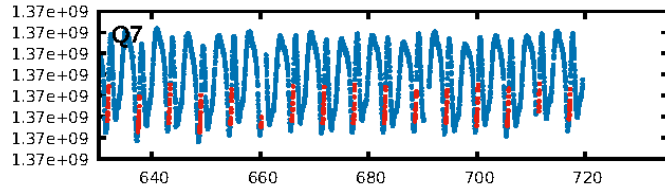
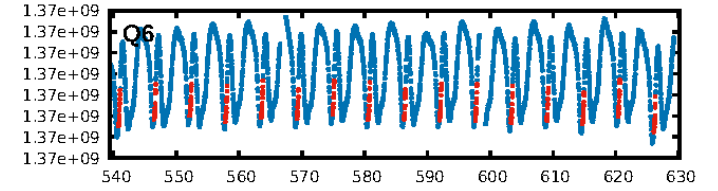
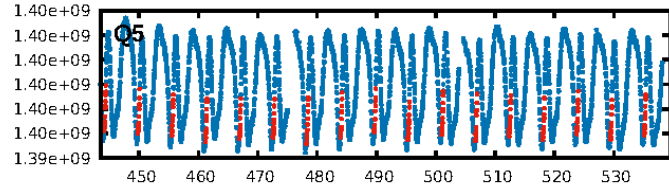
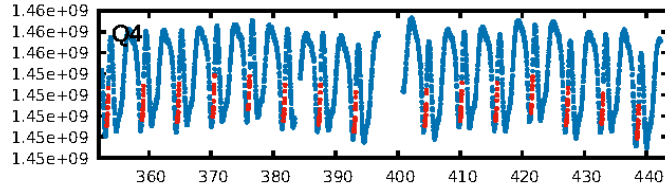
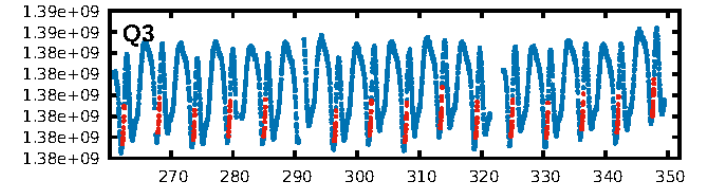
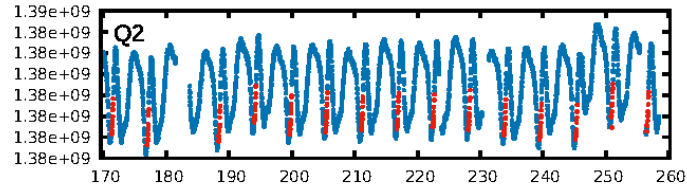
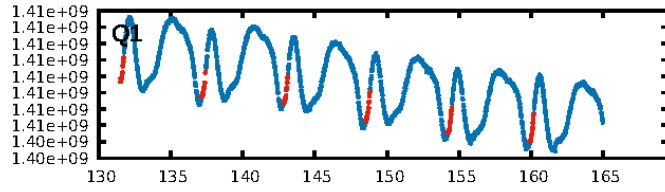
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 100.0% [110.43 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [227/227]
GhostDiagnostic-chr: 1.659
Centroid-sig: N/A
Centroid-so: 1.696 arcsec [3.12 σ]
OotOffset-rm: 1.787 arcsec [2.71 σ]
KicOffset-rm: 1.186 arcsec [1.50 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.24 [4/17]
DiffImageOverlap-fno: 0.00 [0/17]

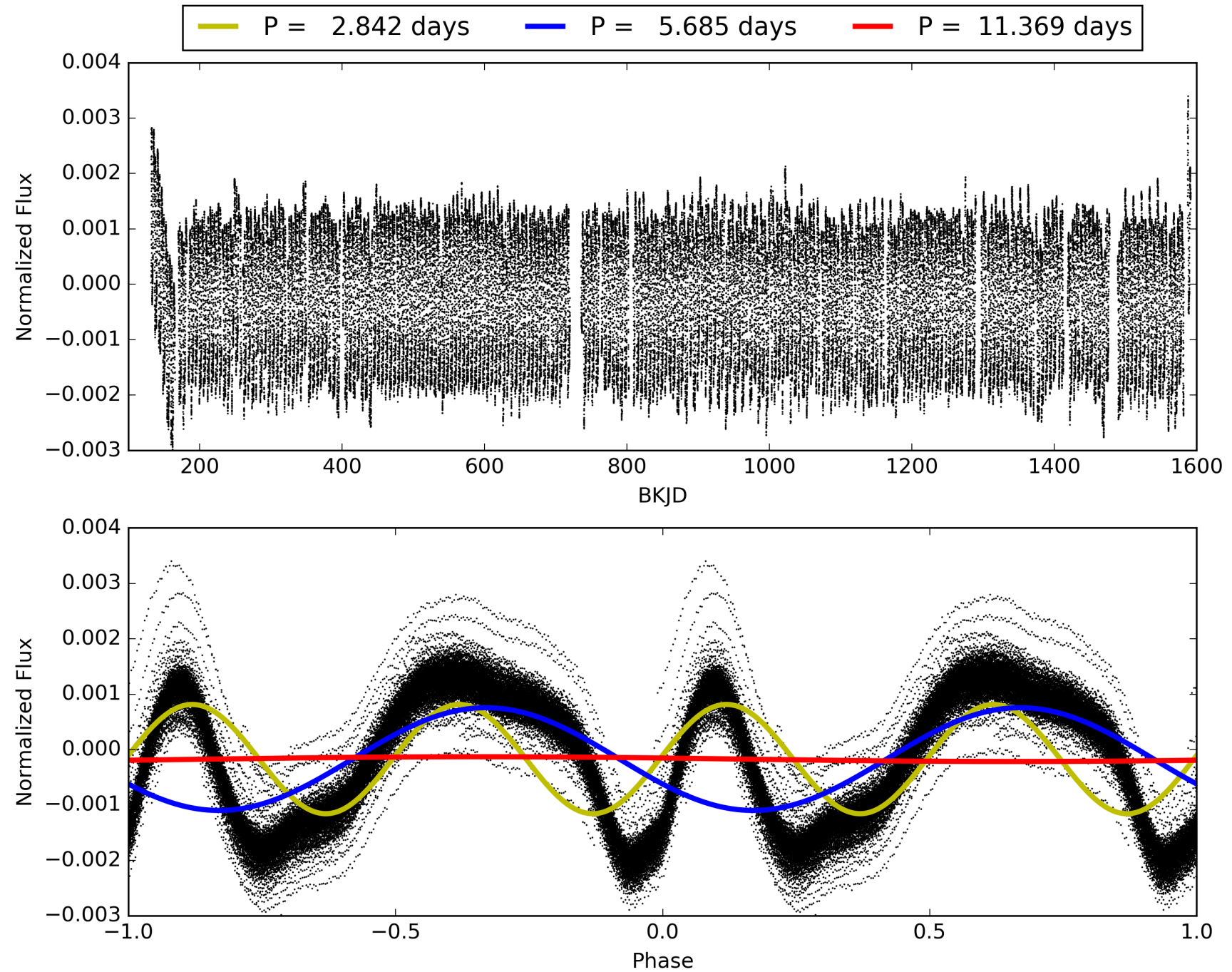
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 010195926-01, PDC Light Curves

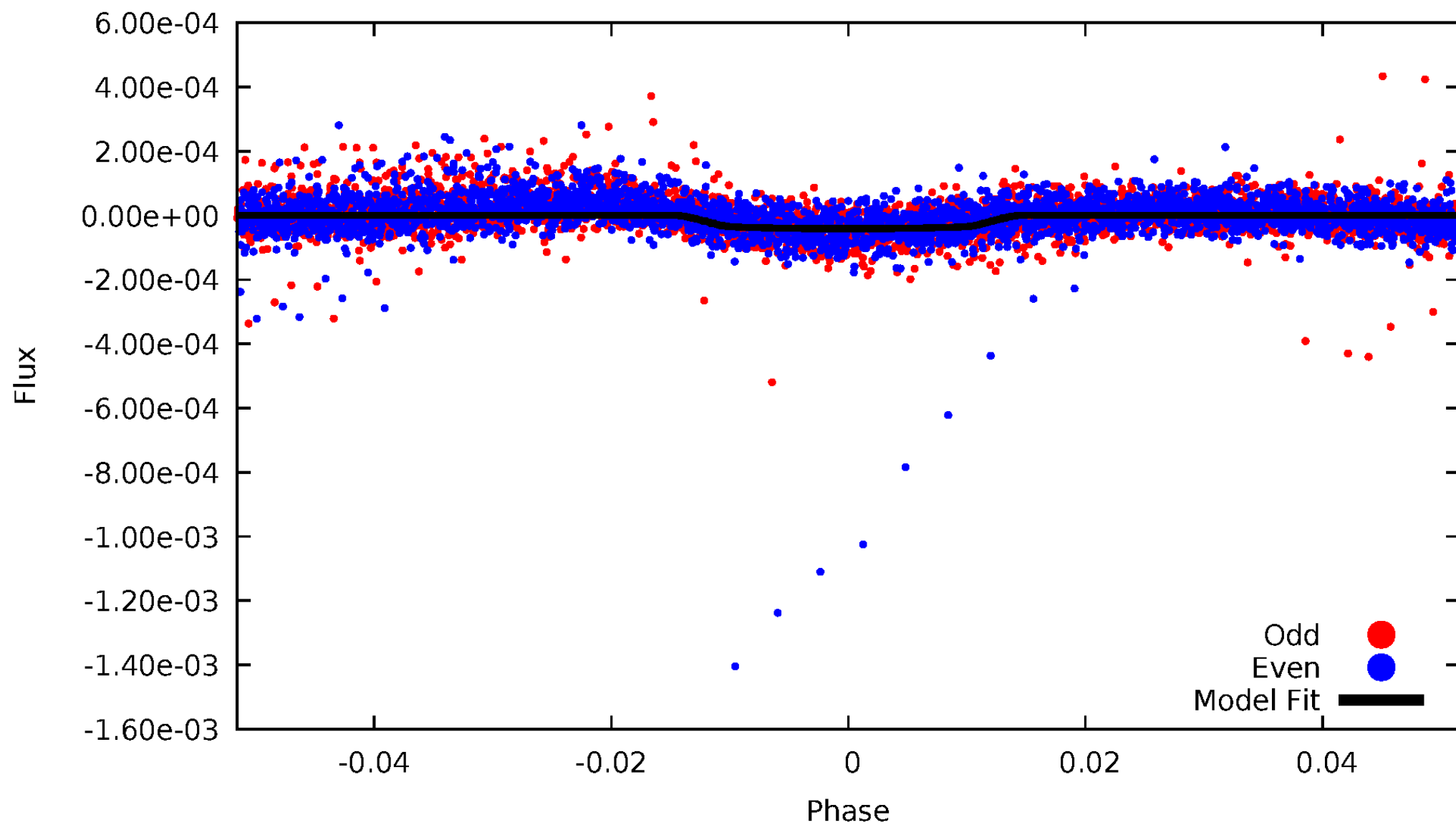


TCE 010195926-01



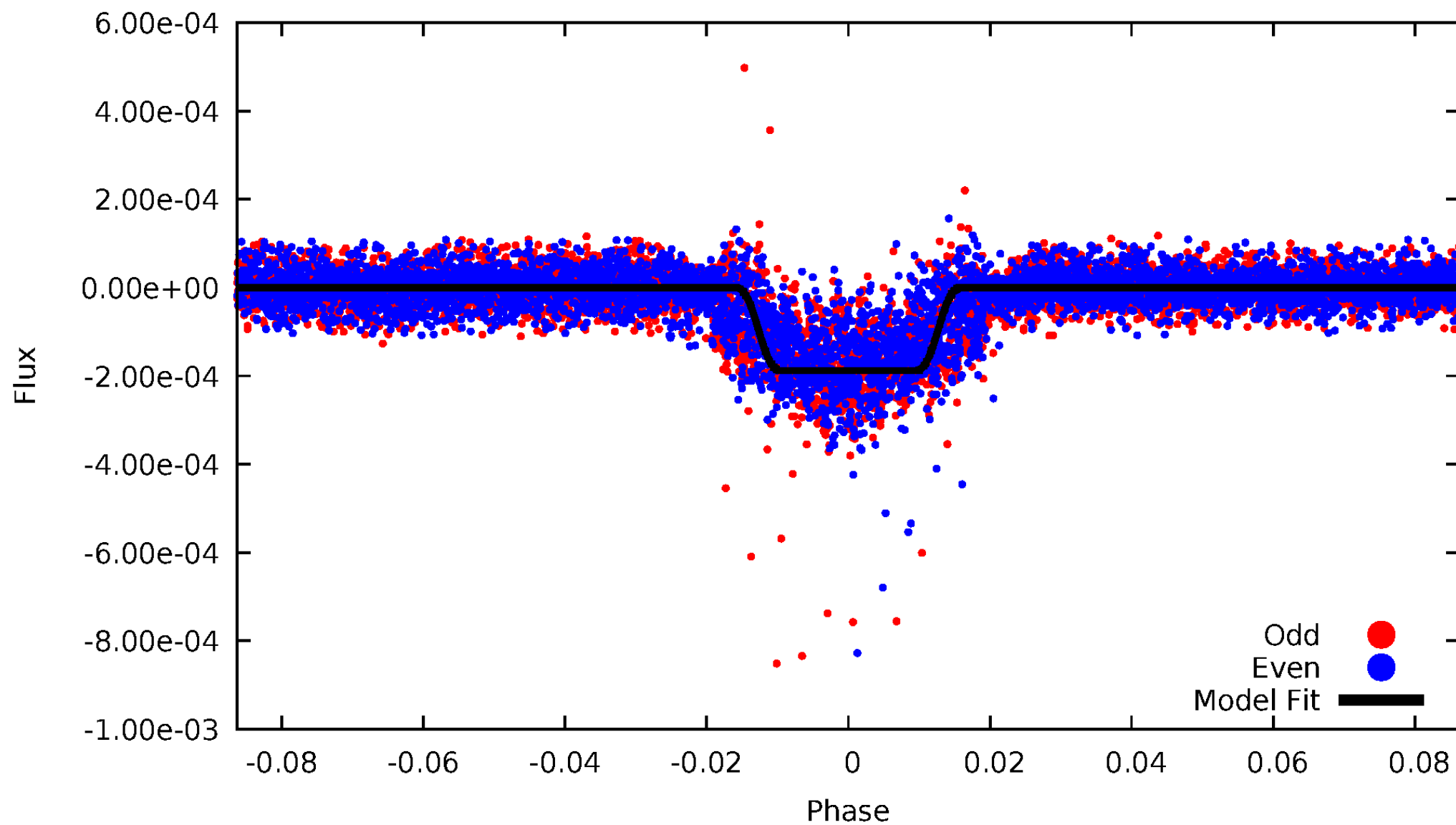
DV Odd/Even

TCE 010195926-01



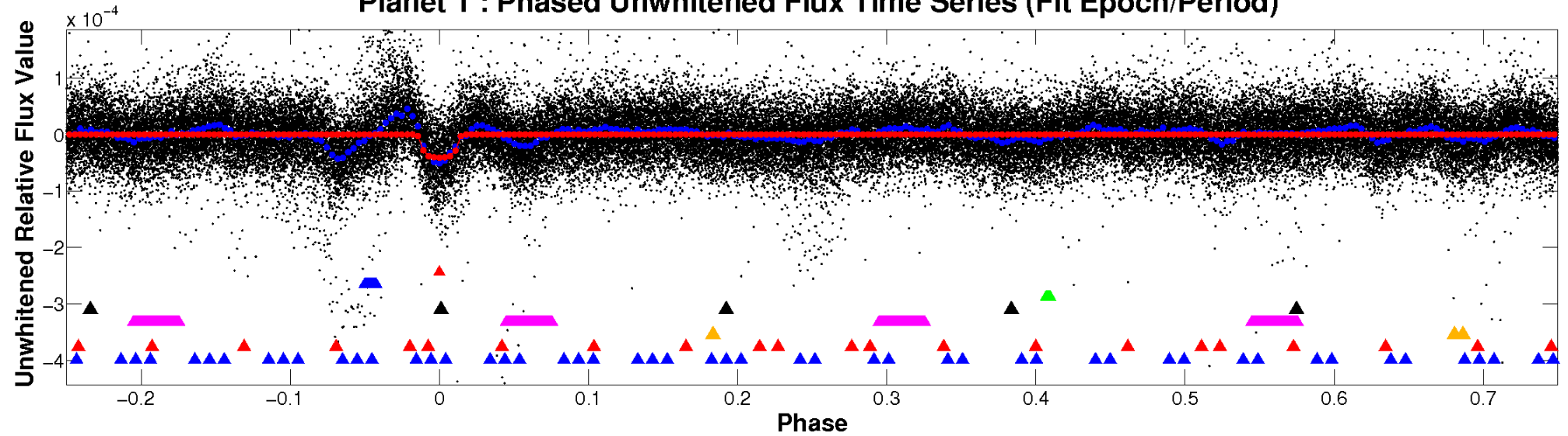
ALT Odd/Even

TCE 010195926-01

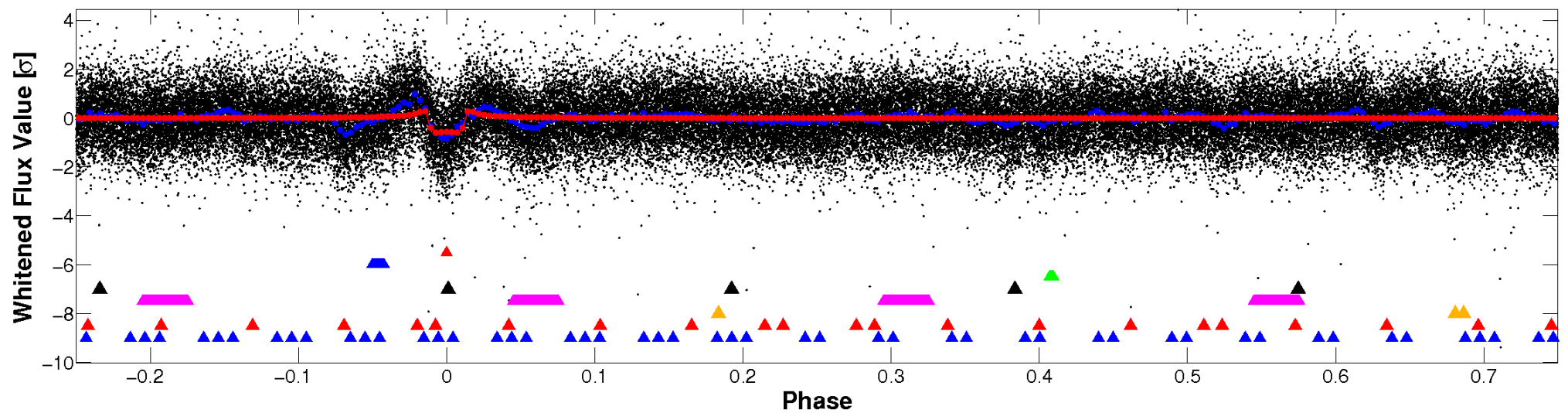


Non-Whitened Vs. Whitened Light Curve

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

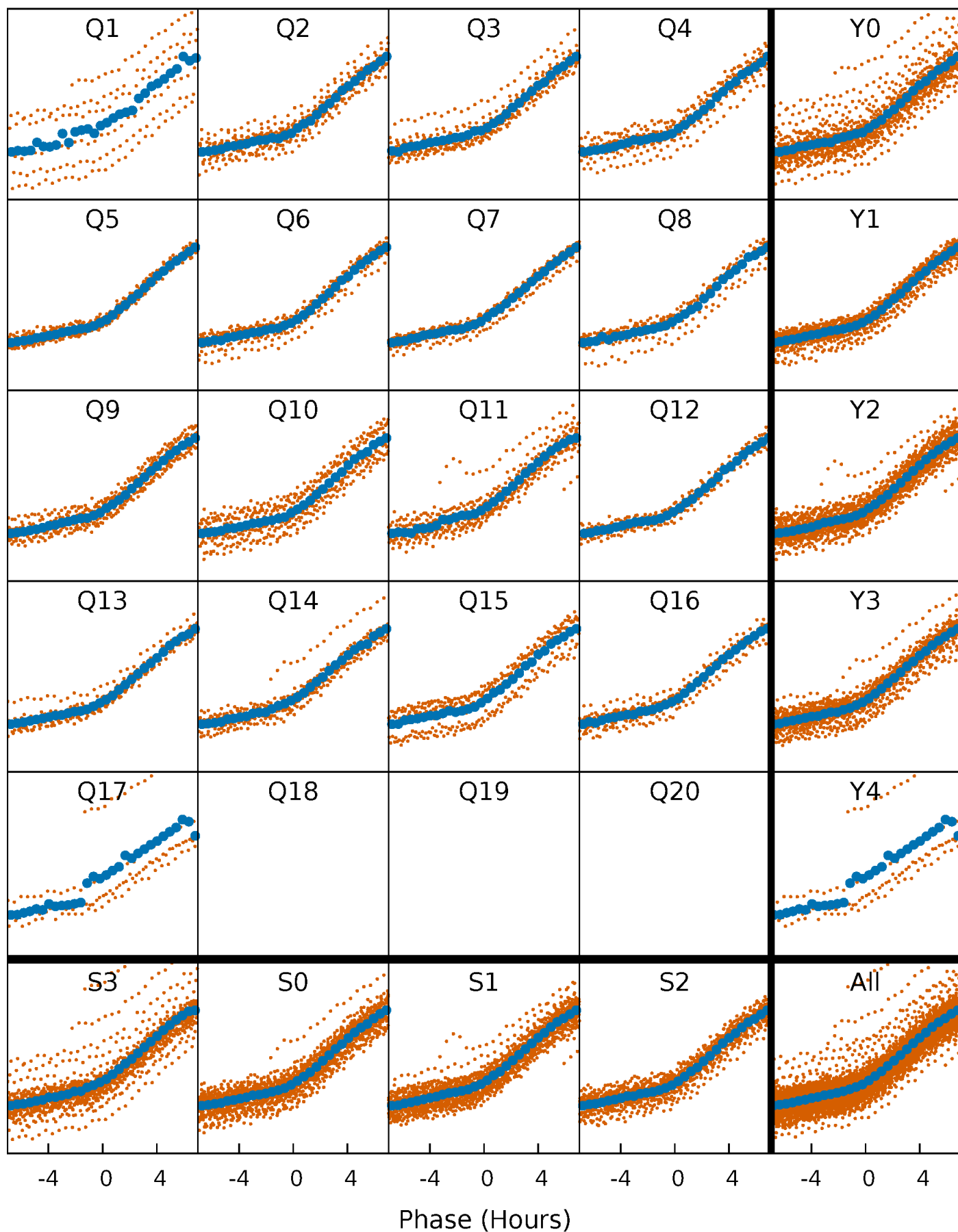


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



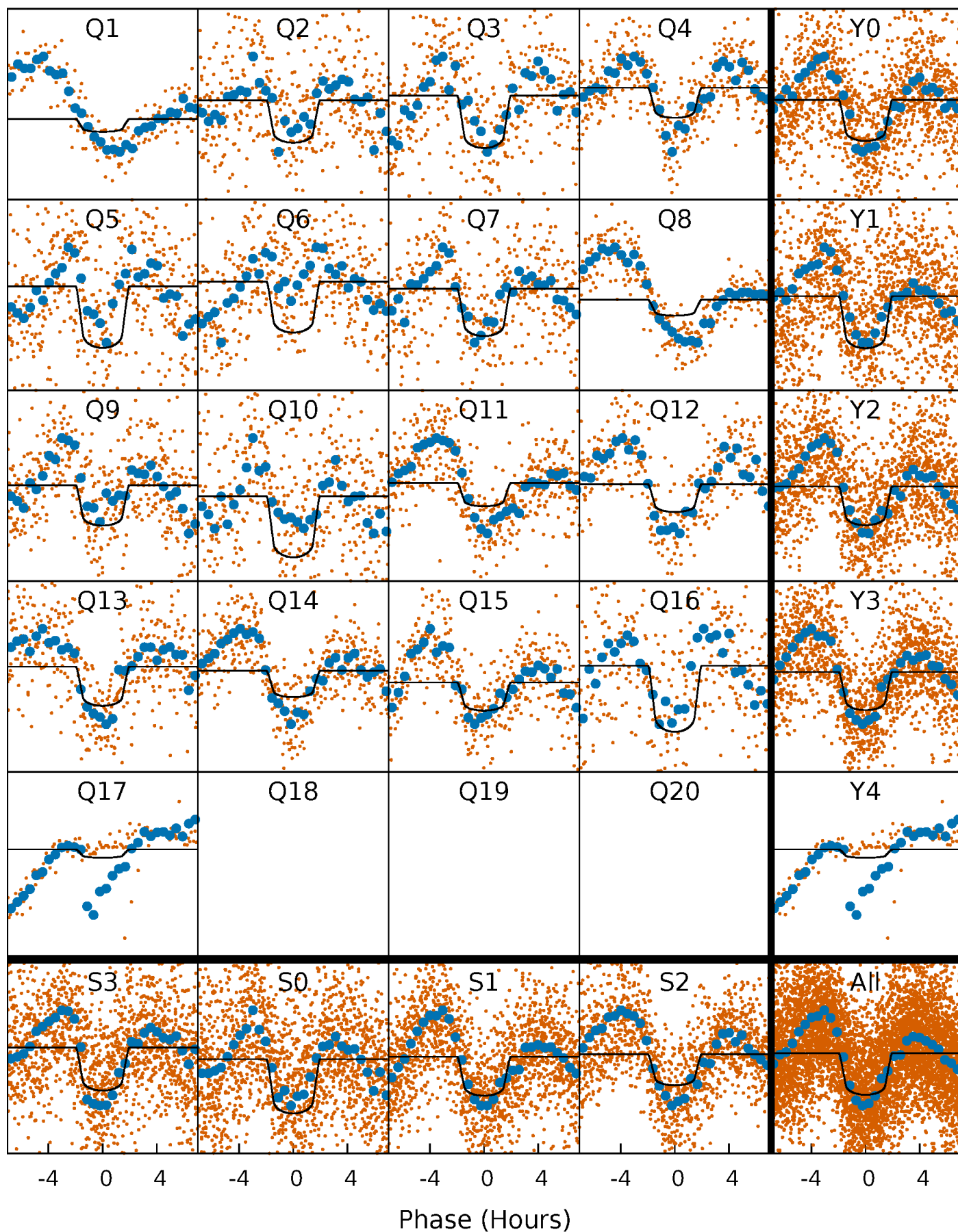
PDC Quarter-Phased Transit Curves

TCE 010195926-01 P= 5.684694 Days $T_0=131.605766$ (BKJD)



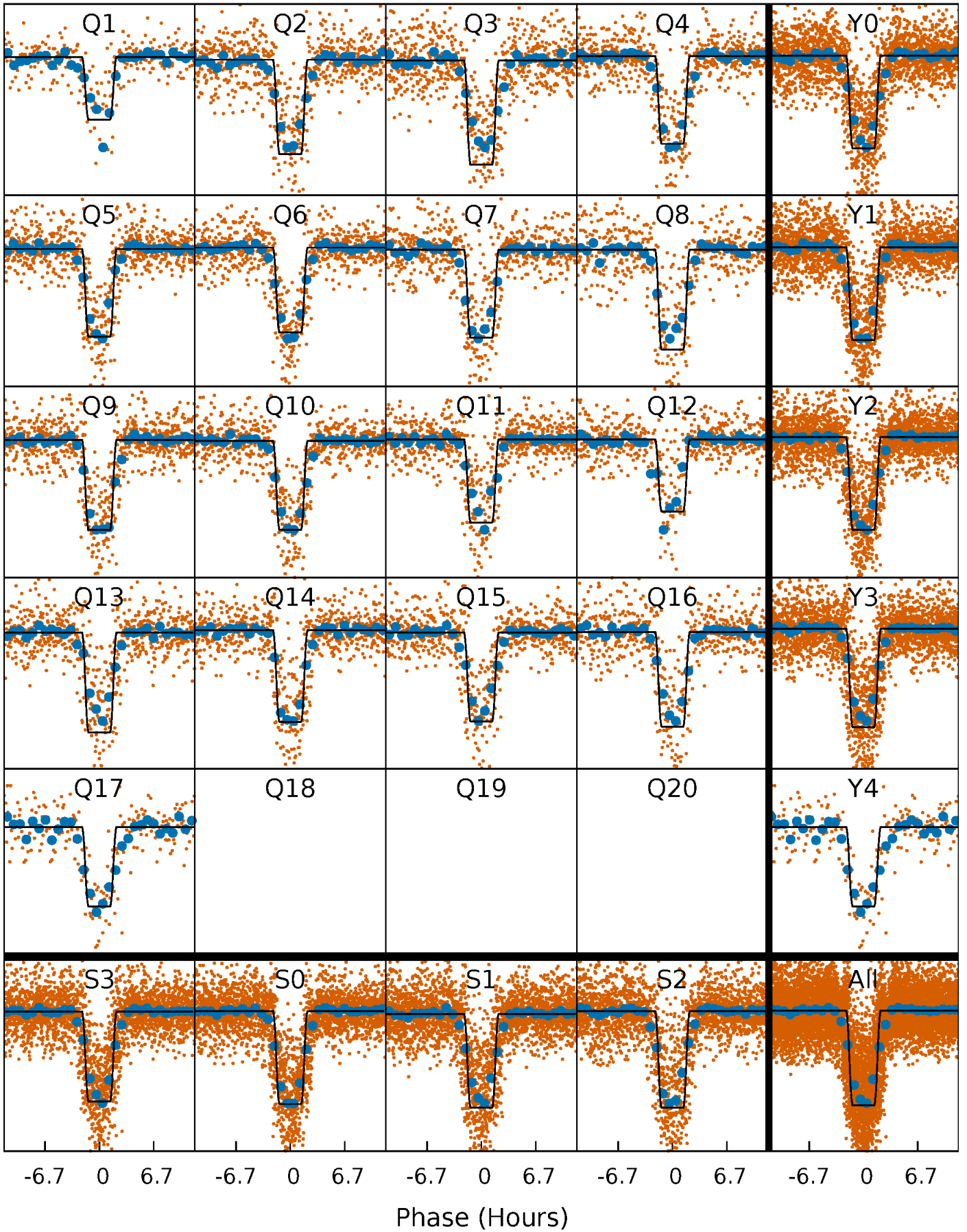
DV Quarter-Phased Transit Curves

TCE 010195926-01 P= 5.684694 Days $T_0=131.605766$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

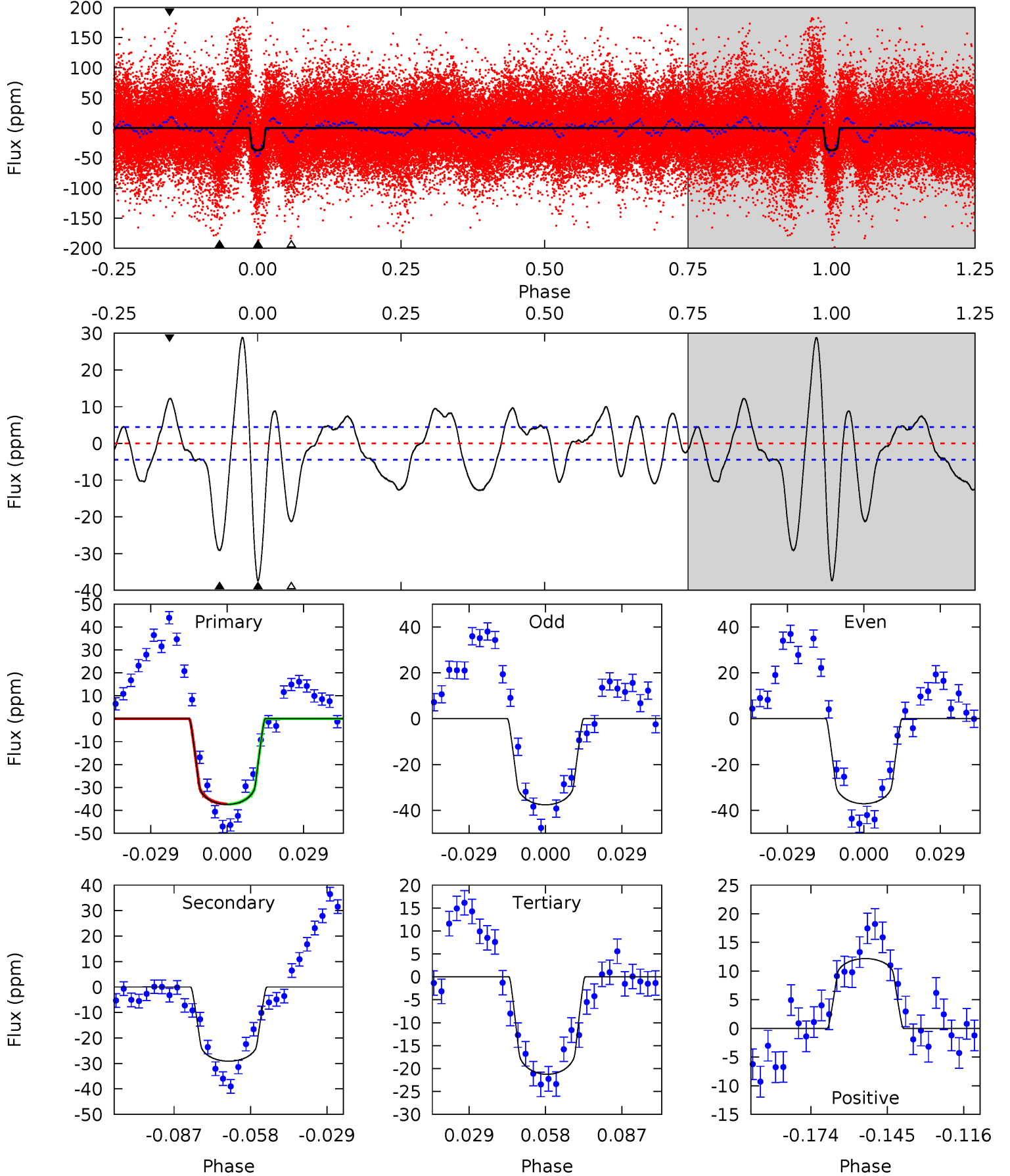
TCE 010195926-01 P= 5.684610 Days $T_0=131.607394$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-01, P = 5.684694 Days, E = 125.921072 Days

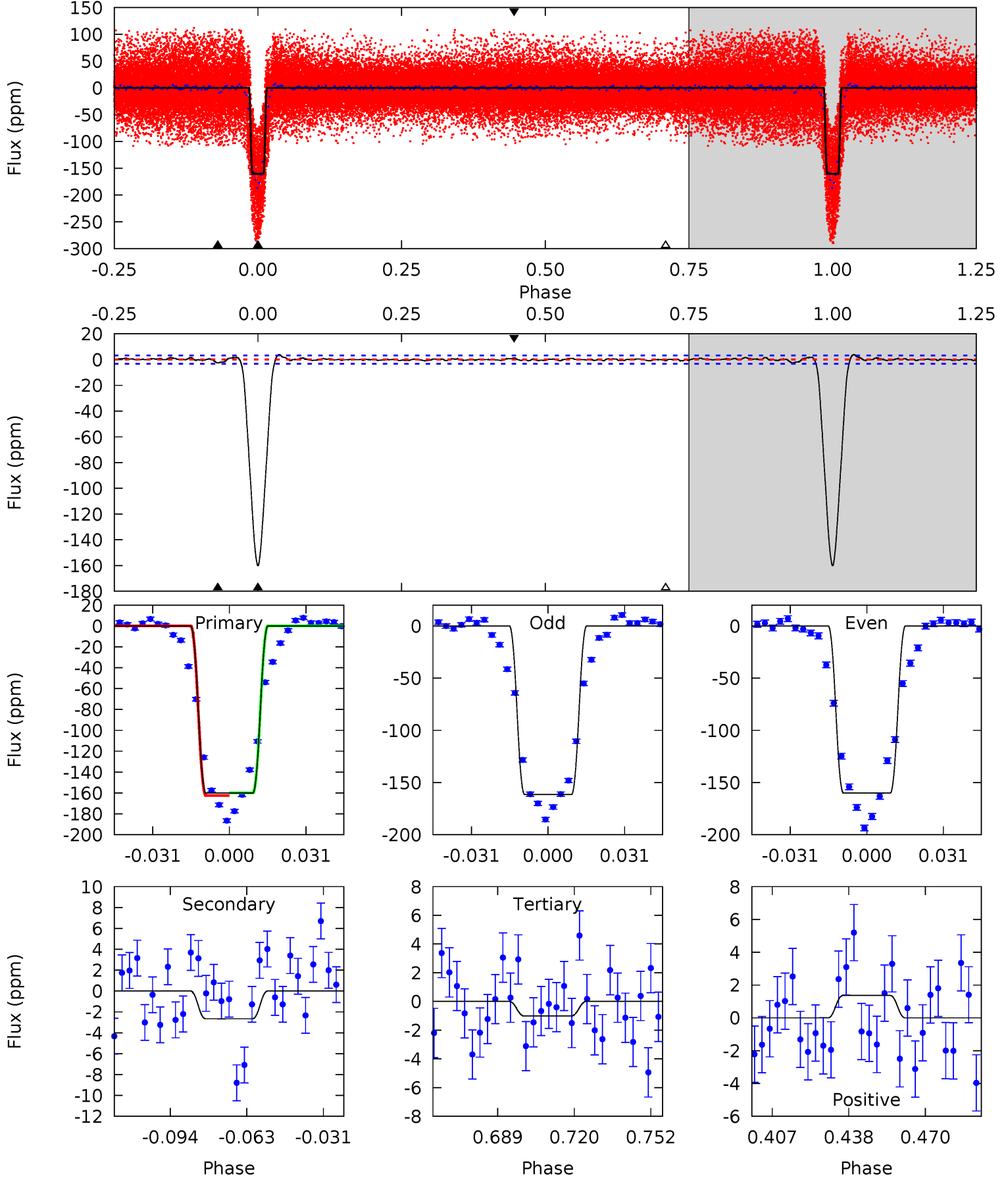
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
40.5	31.5	23.0	13.2	4.82	2.18	7.94	17.5	27.3	8.50	18.3	0.25	1.19	0.44	0.08



Alt Model-Shift Uniqueness Test

010195926-01, P = 5.684610 Days, E = 131.607394 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
235.3	3.90	1.49	2.01	4.80	2.15	0.92	233.8	233.3	2.41	1.90	1.05	1.01	0.02	0



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-29 ± 1	$2.38^{+0.41}_{-0.63}$	3048^{+208}_{-408}	6570^{+489}_{-396}	16^{+13}_{-4}
Alt.	-3 ± 1	$4.87^{+0.57}_{-1.35}$	3042^{+205}_{-384}	2568^{+401}_{-5052}	$0.370^{+0.291}_{-0.119}$

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 $A_{obs} \gg 1.0$

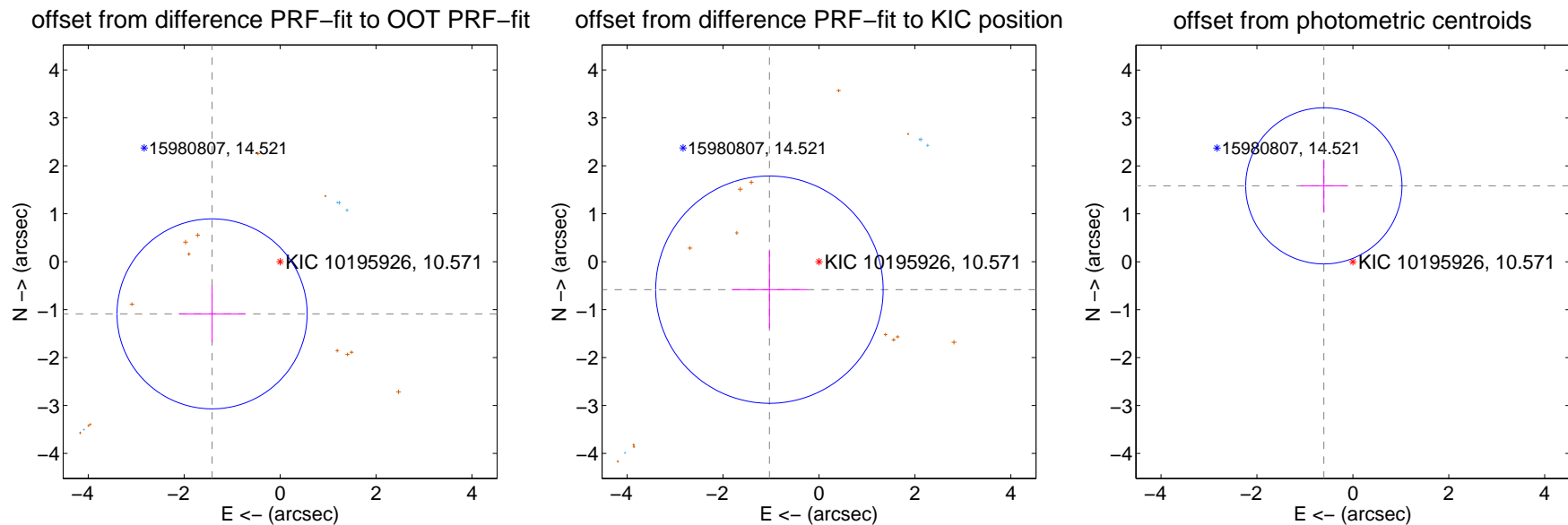
DV Centroid Data

Supplemental centroid analysis for 010195926-01. **Kepler magnitude: 10.57.** Transit SNR 23.86

There are 4 quarters with good PRF difference image offsets

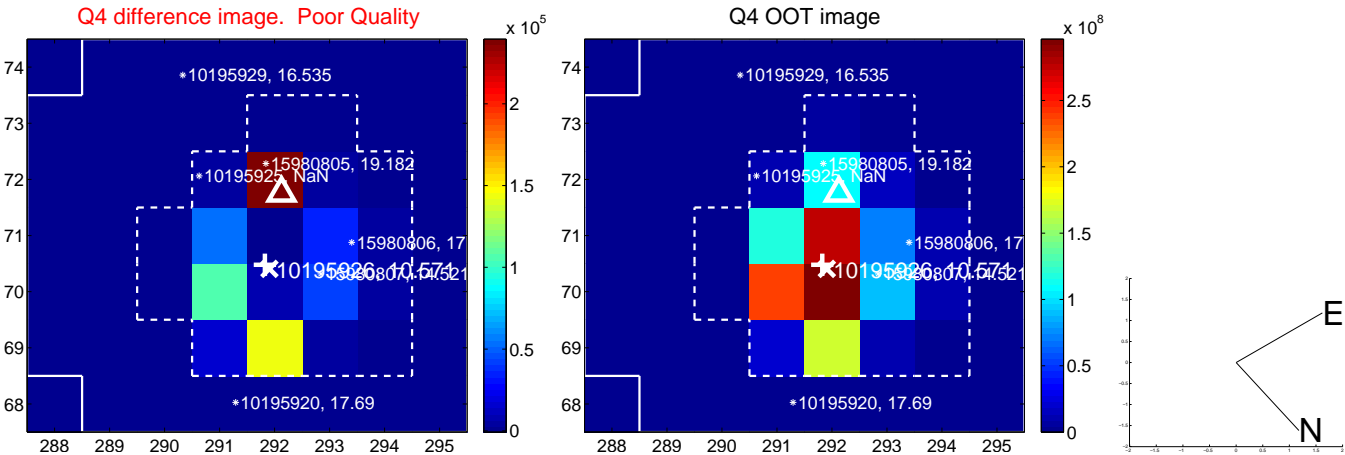
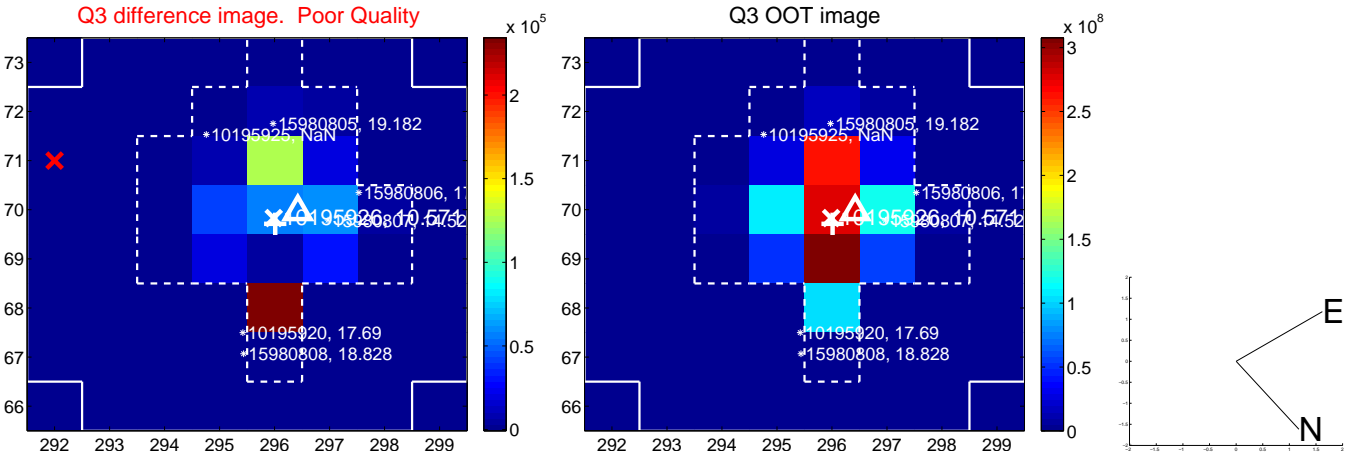
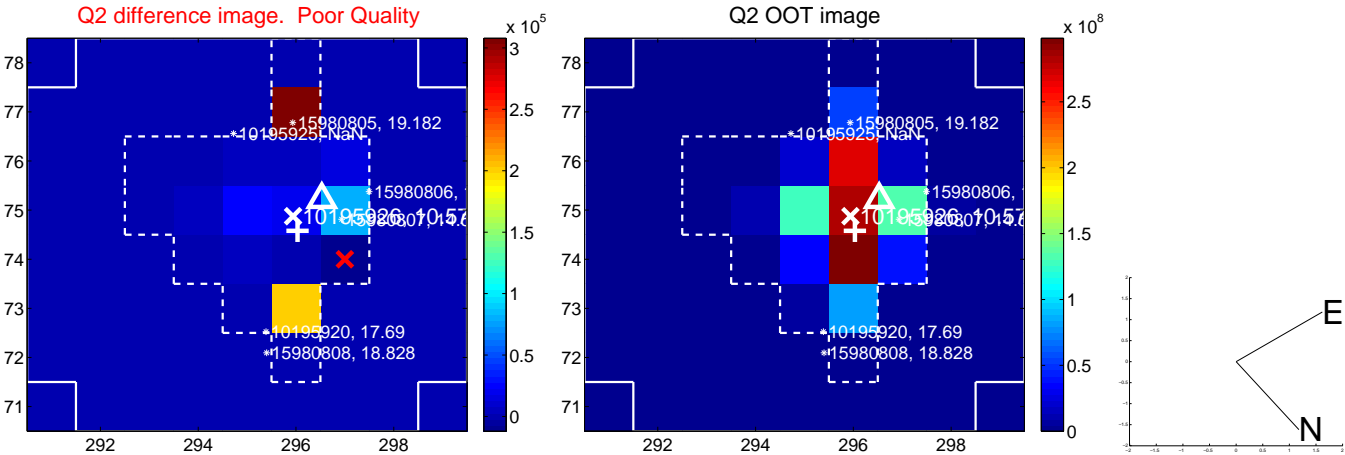
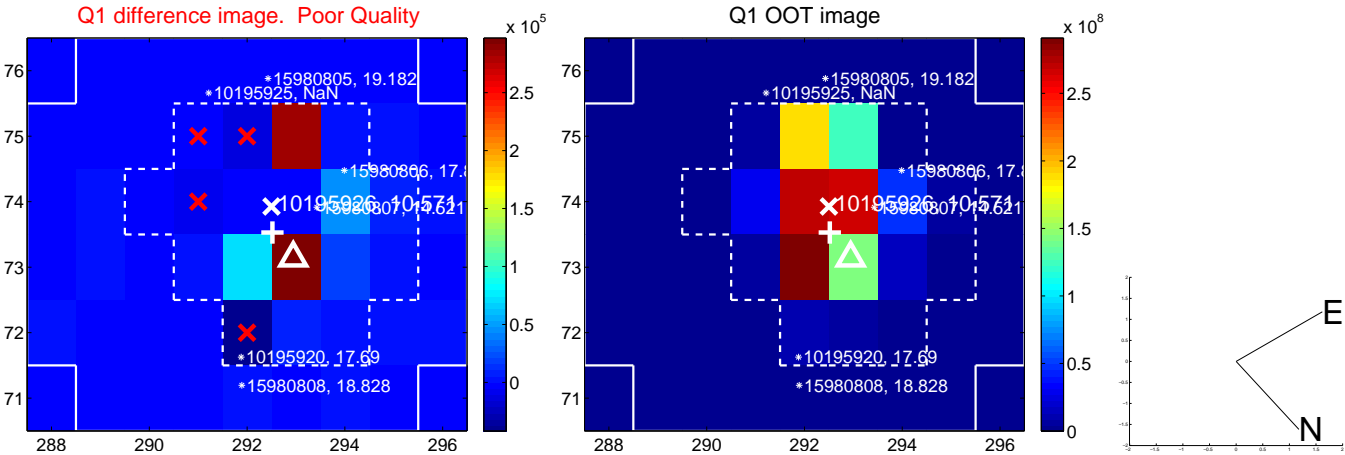
The direct PRF centroid is offset from the target star catalog position by about 1.59 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.787 ± 0.661	2.71	1.418 ± 0.694	-1.088 ± 0.600
PRF-fit source offset from KIC position	1.186 ± 0.790	1.50	1.033 ± 0.785	-0.583 ± 0.807
photometric centroid source offset	1.70 ± 0.54	3.12	0.60 ± 0.49	1.58 ± 0.55

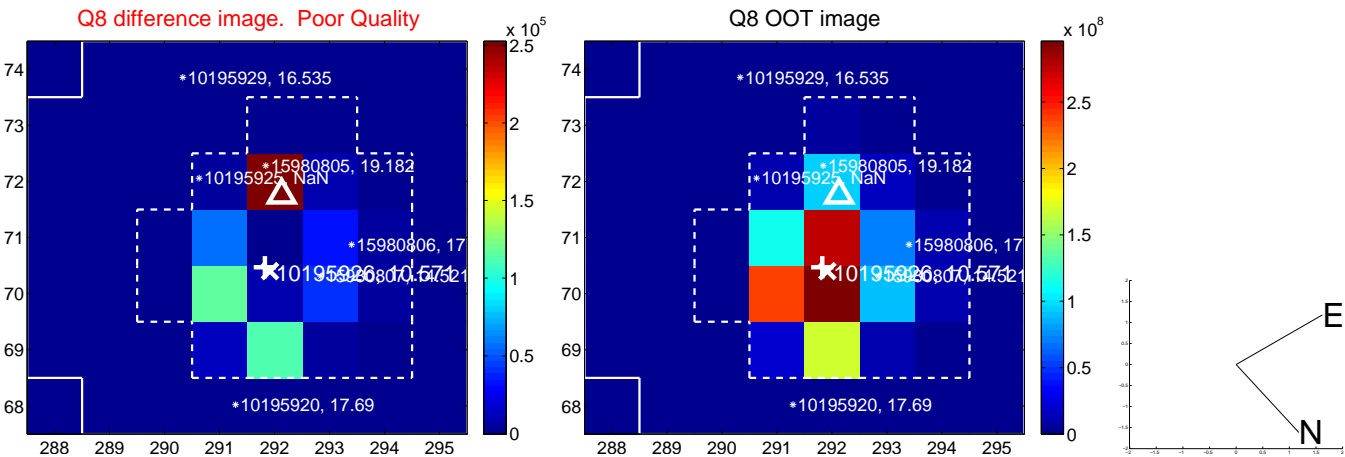
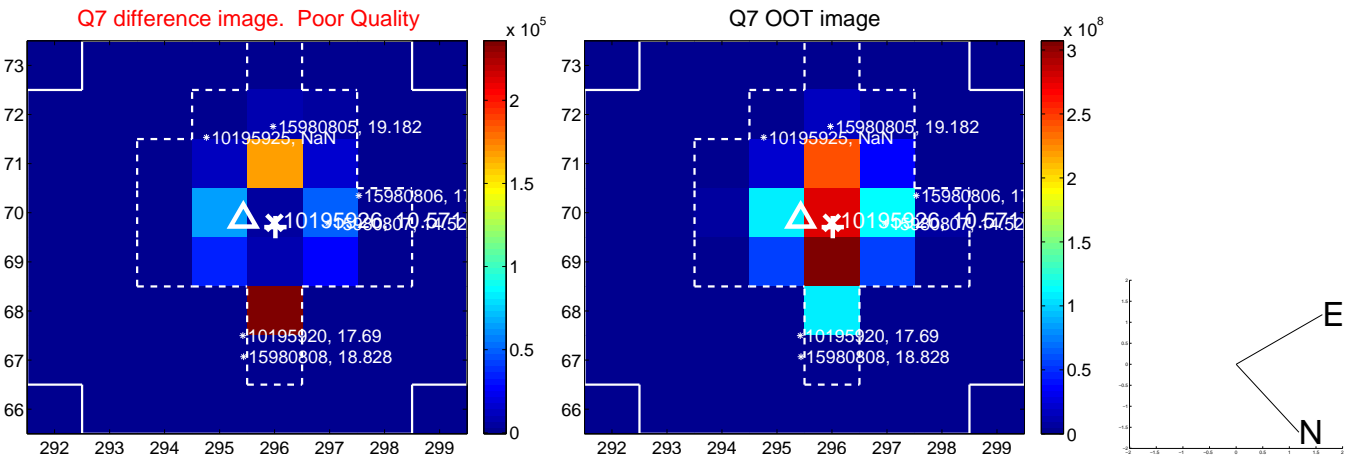
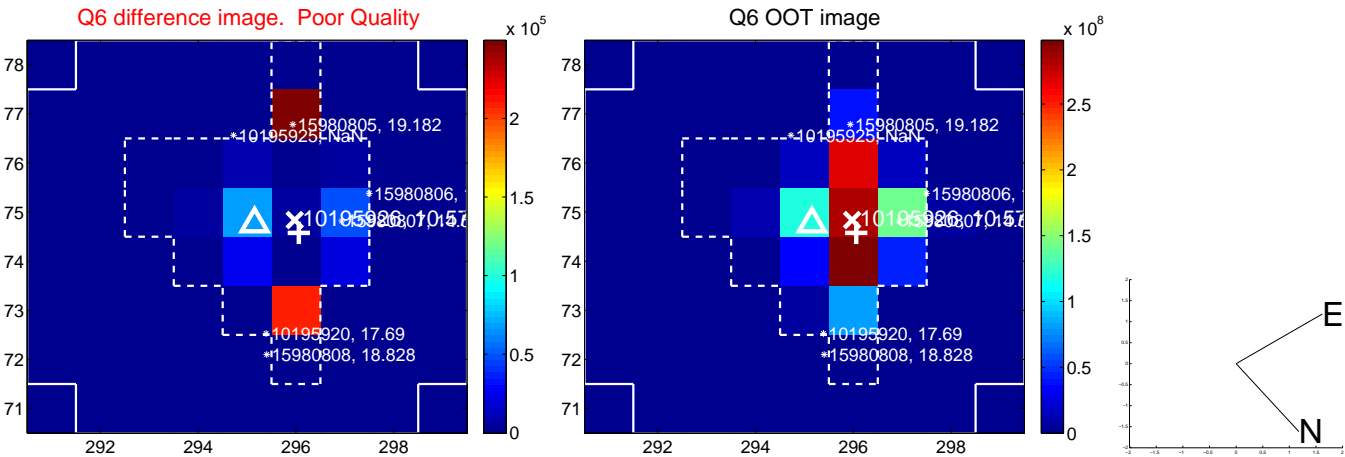
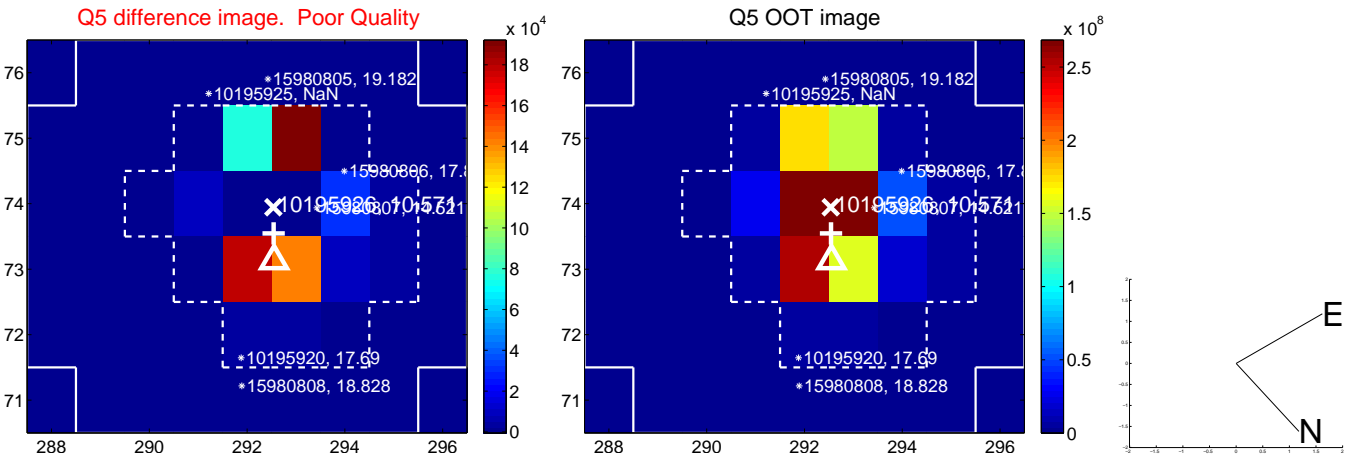


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

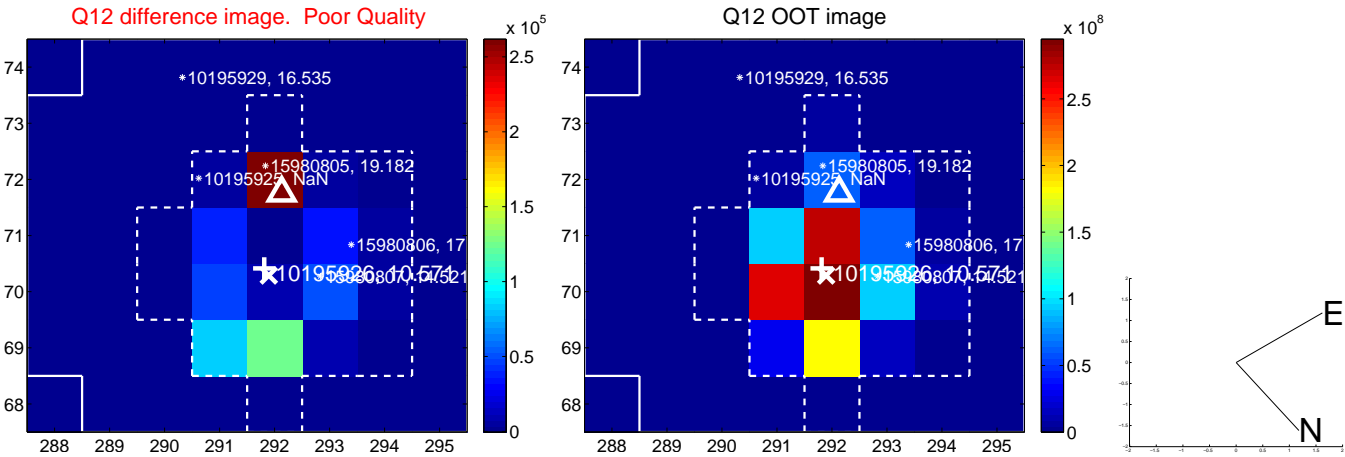
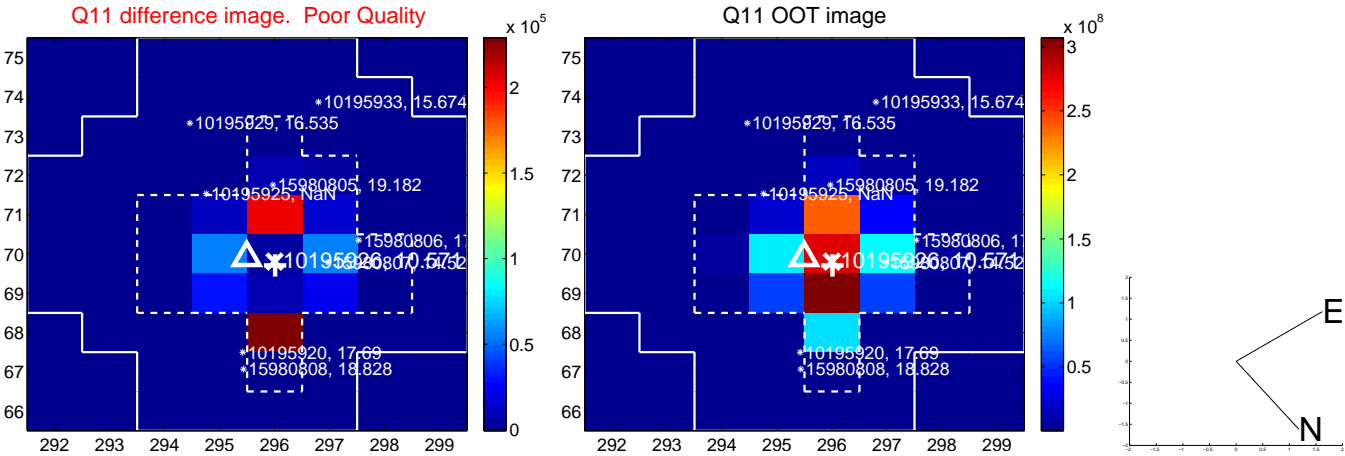
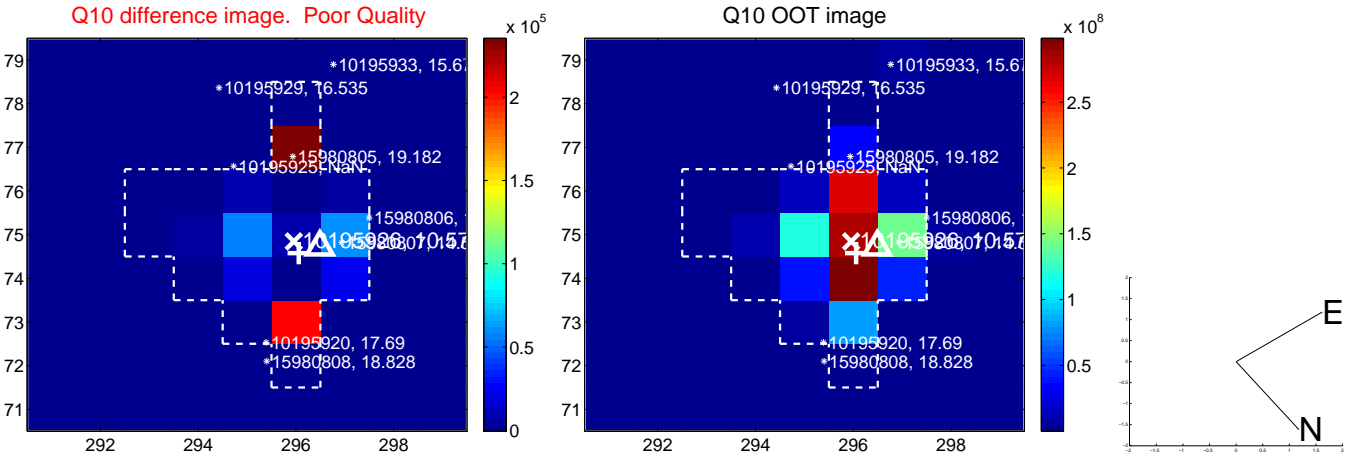
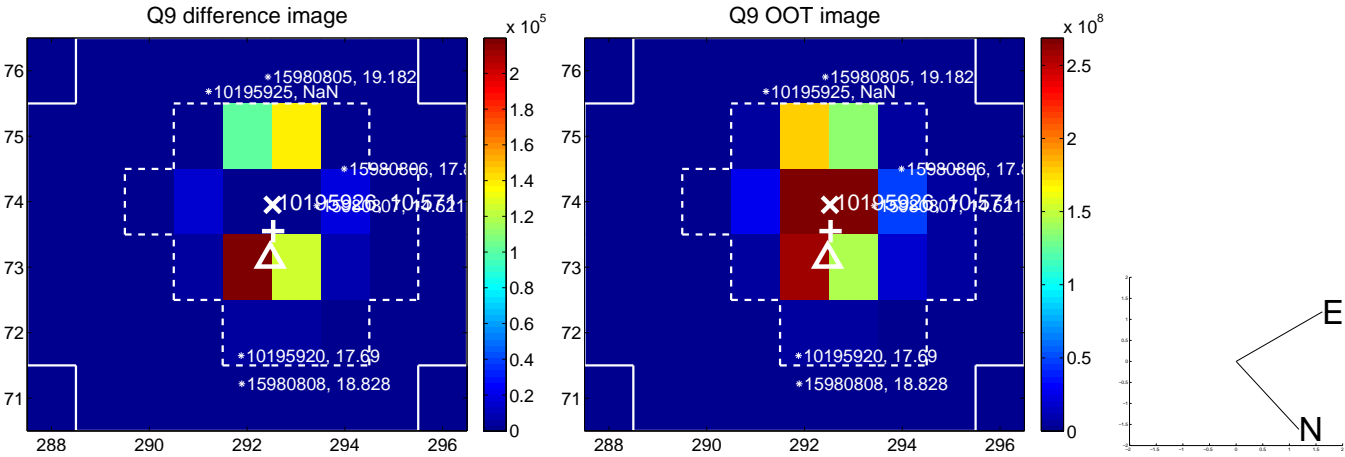
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



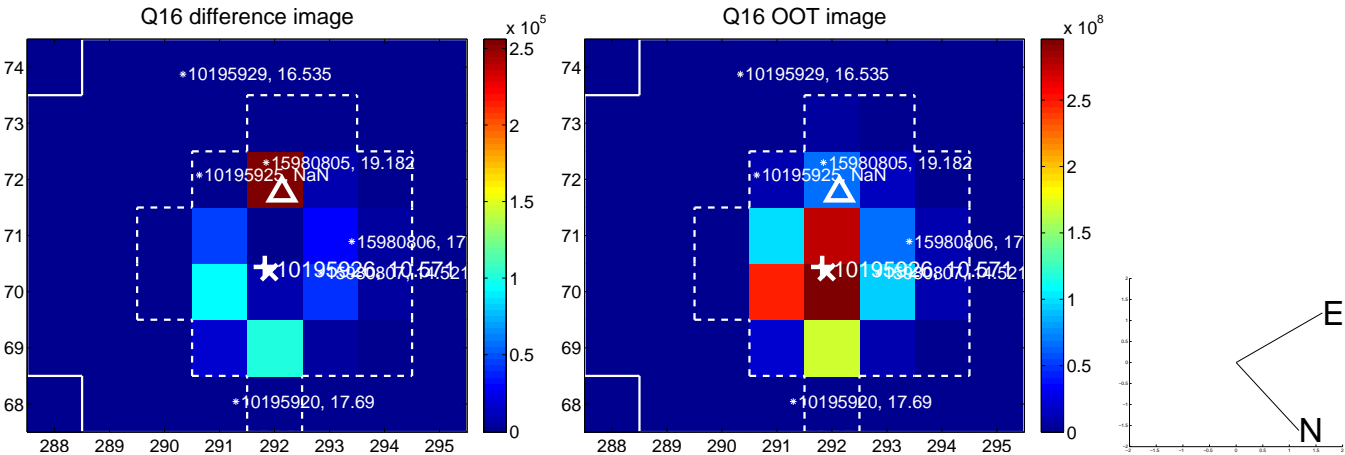
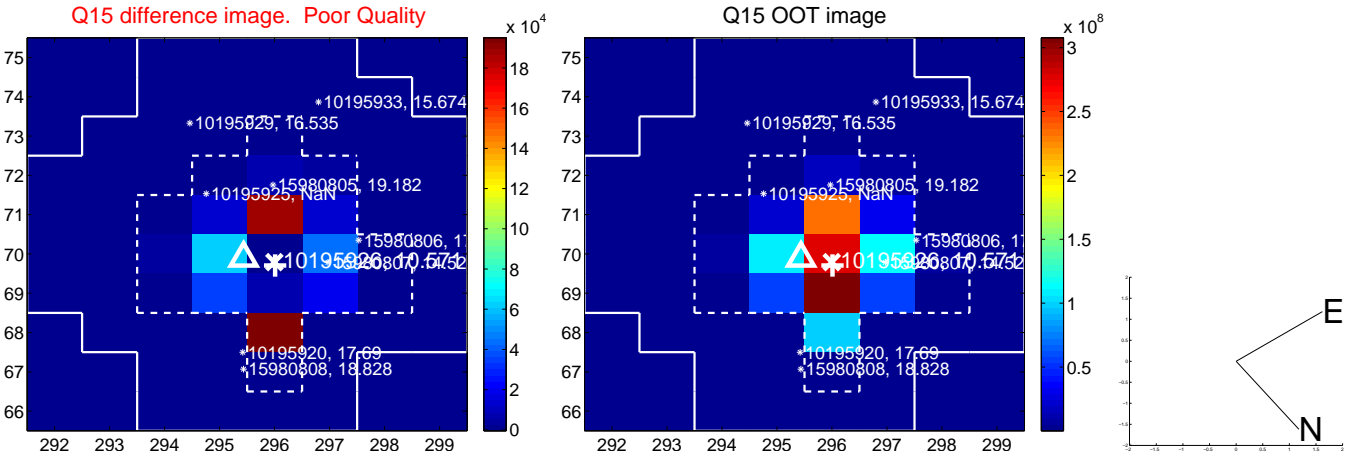
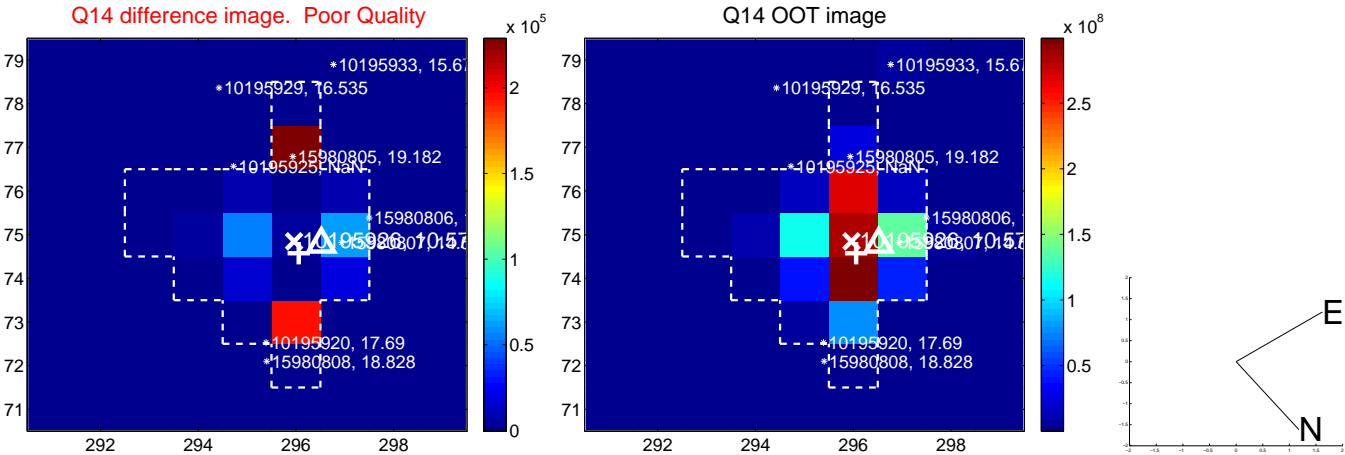
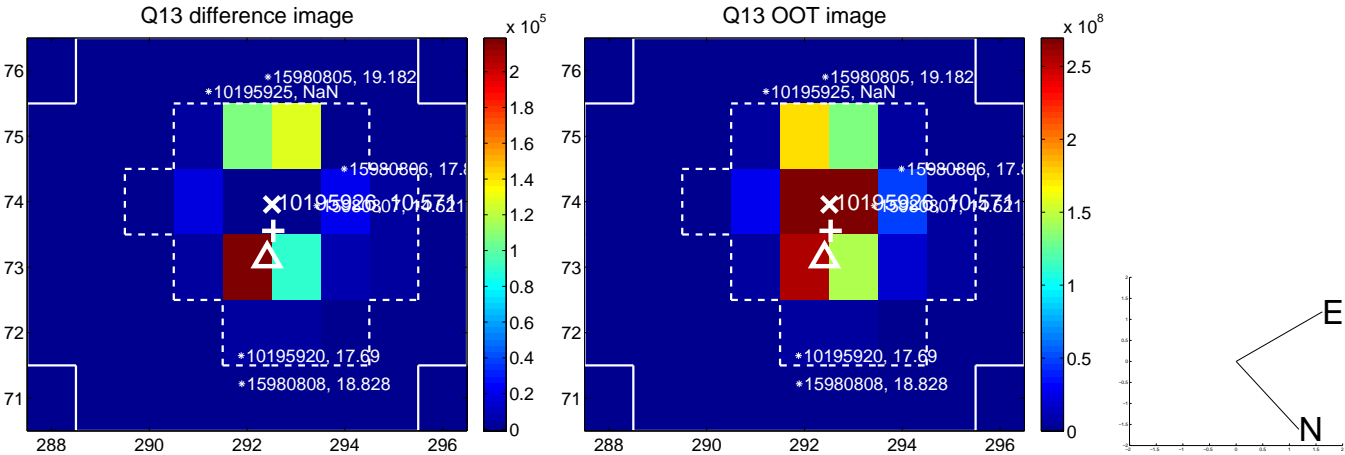
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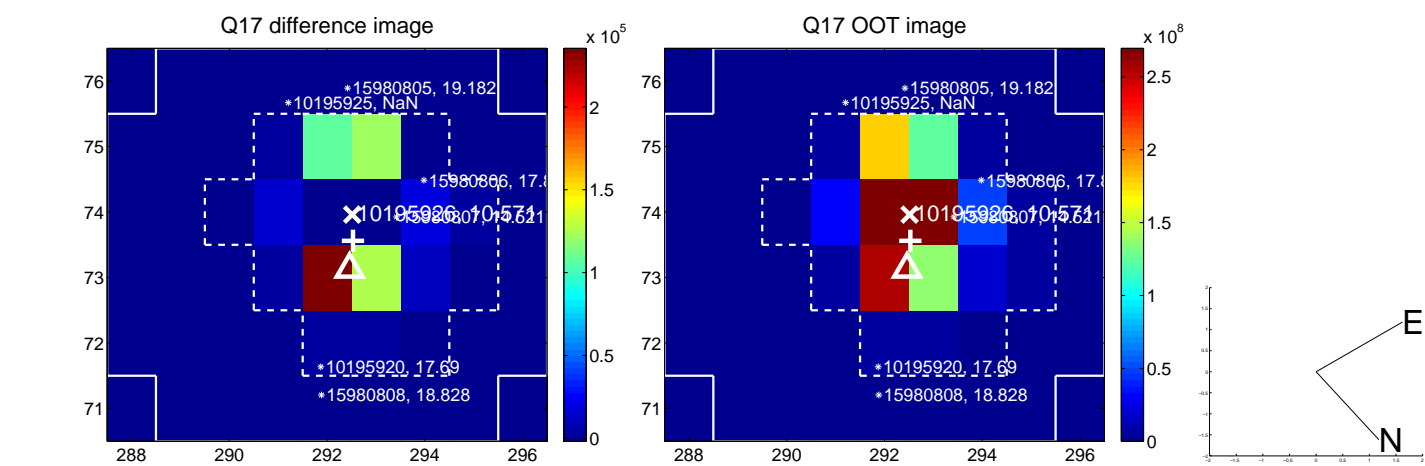
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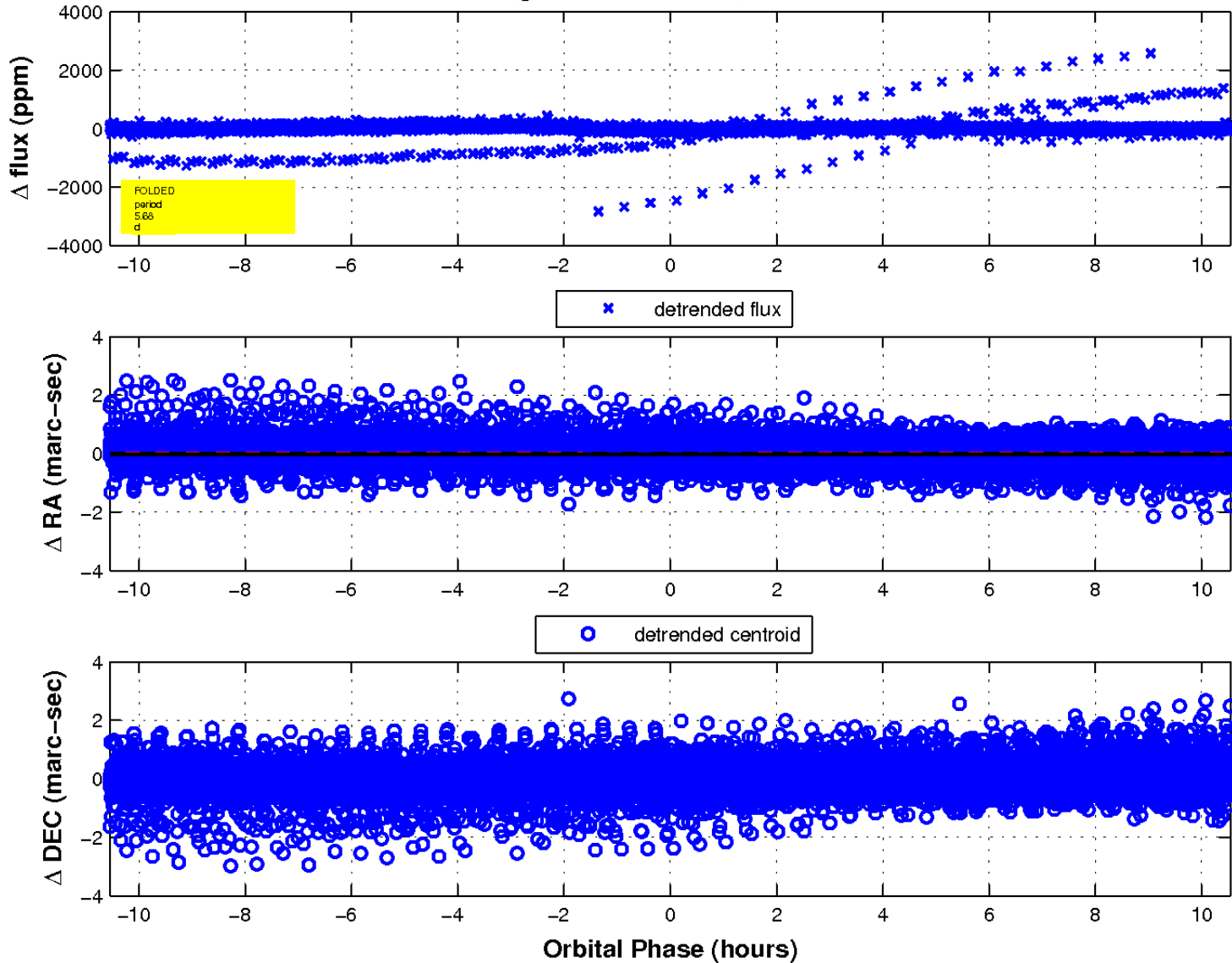
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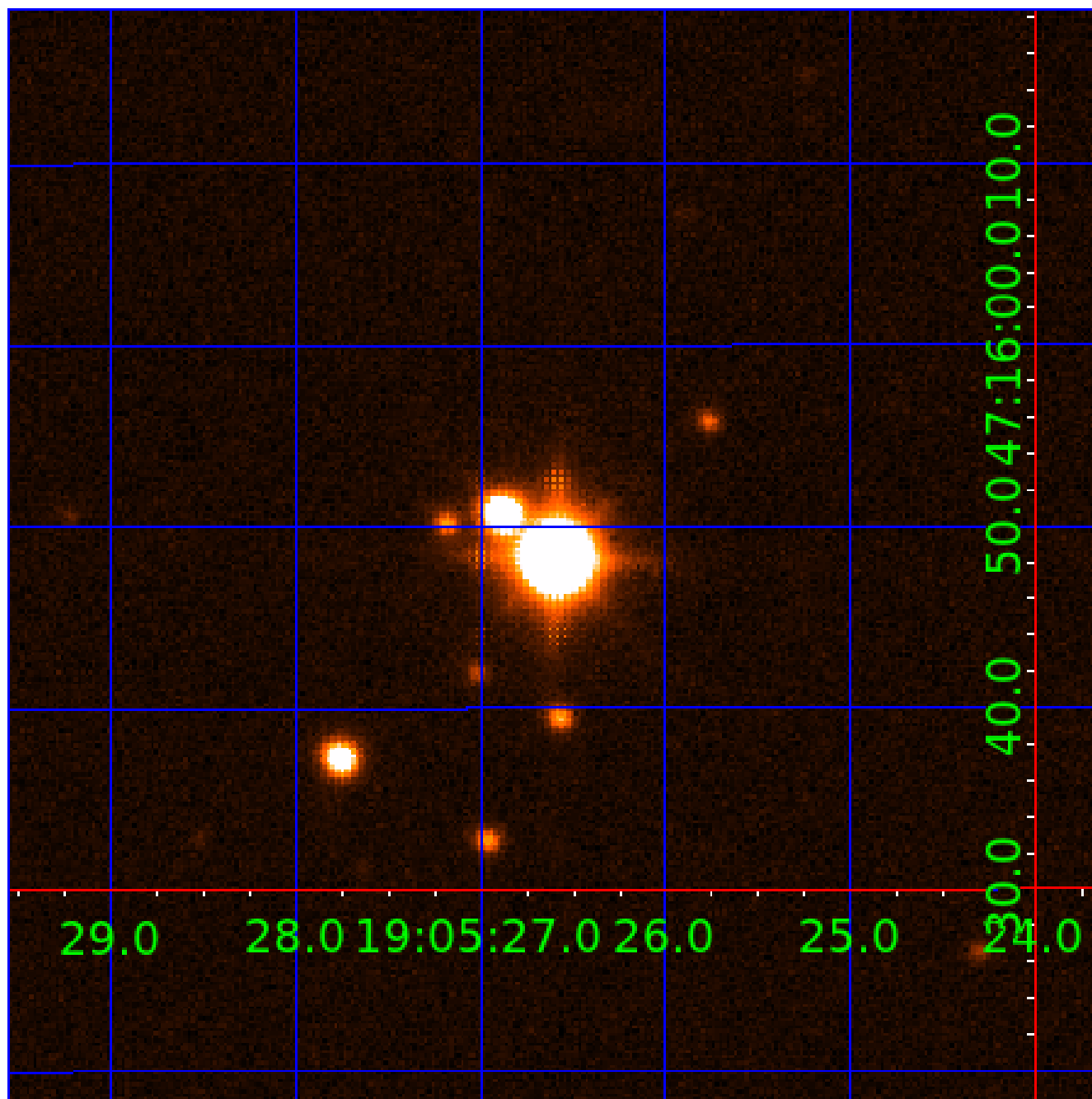


fluxWeightedCentroids, Planet 1 of 8



UKIRT Image

Declination



KIC 010195926

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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010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

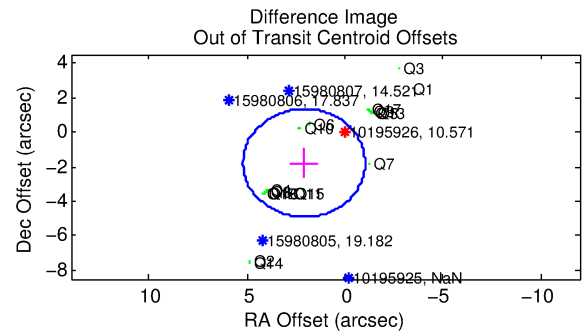
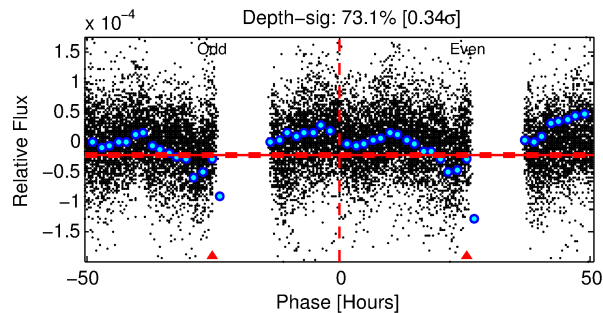
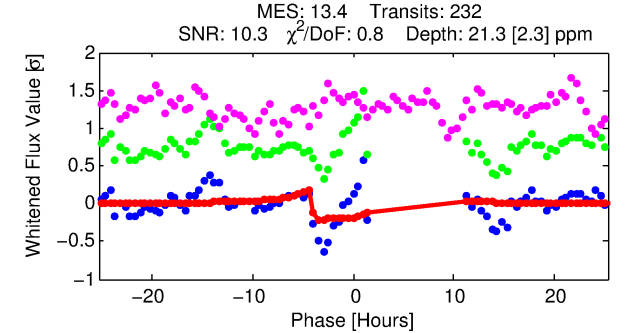
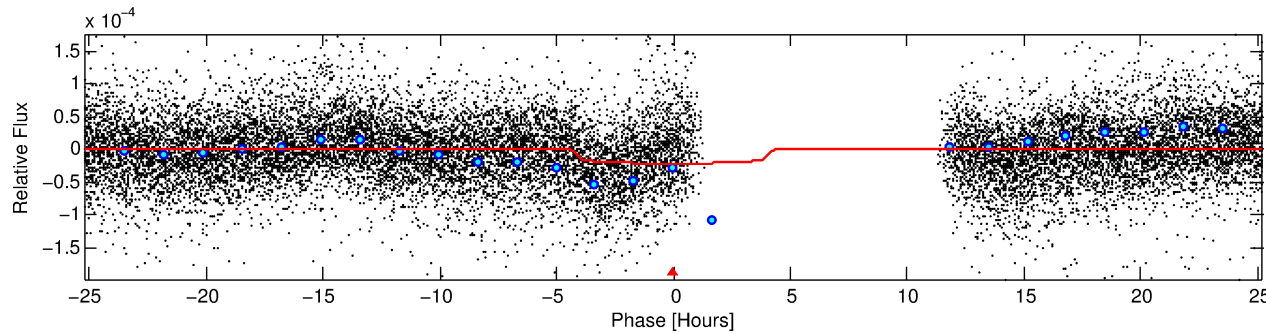
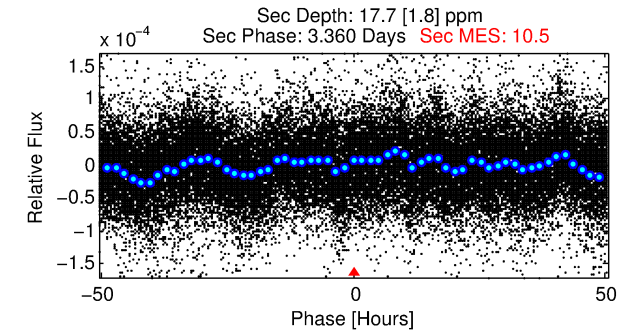
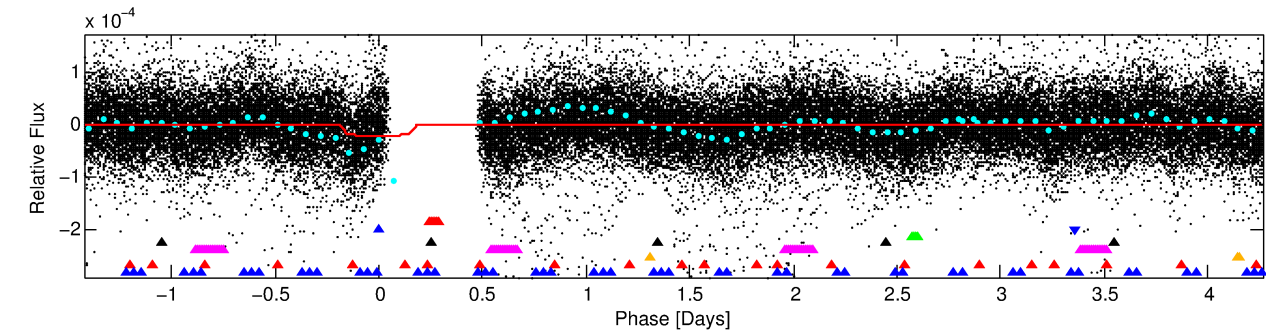
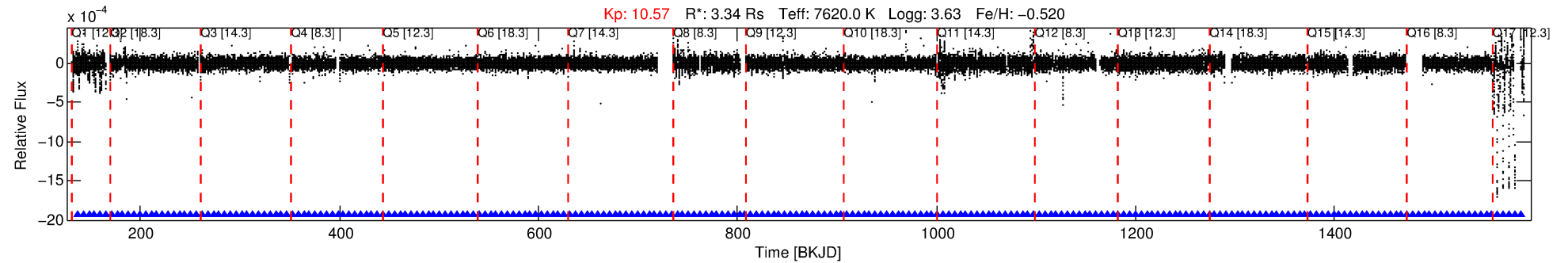
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-02

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 2 of 8 Period: 5.685 d



DV Fit Results:

Period = 5.68452 [0.00004] d
Epoch = 137.0505 [0.0228] BKJD
Rp/R* = 0.0049 [0.0007]
a/R* = 2.49 [1.72]
b = 0.90 [0.19]
Seff = 5973.11 [5668.28]
Teq = 2242 [532] K
Rp = 1.79 [1.00] Re
a = 0.0751 [0.0422] AU
Ag = 17.15 [16.78] [0.96 sigma]
Teffp = 7053 [592] K [6.05 sigma]

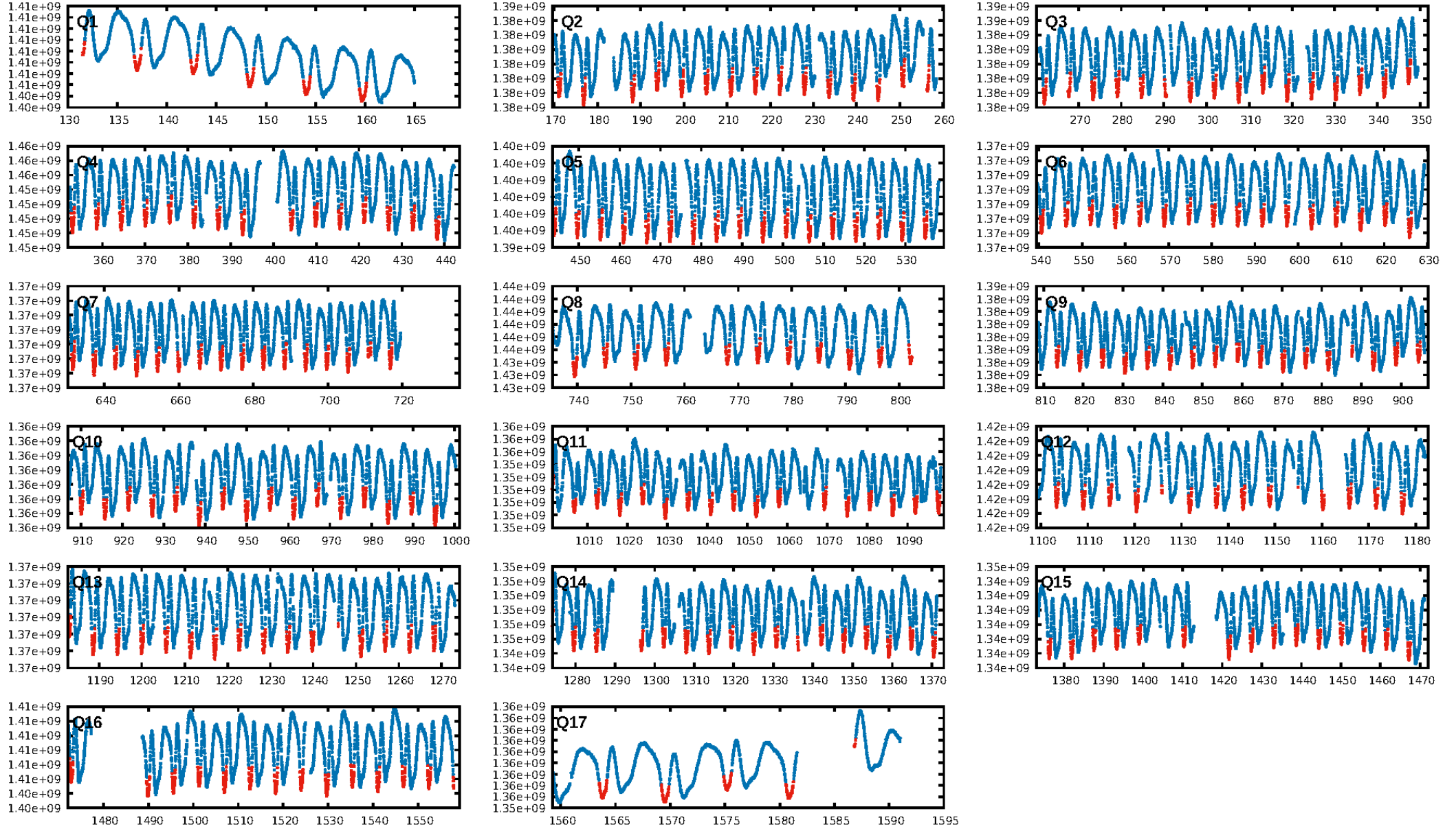
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [8.49 sigma]
LongPeriod-sig: 0.0% [0.00 sigma]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [223/223]
GhostDiagnostic-chr: -1.726
Centroid-sig: N/A
Centroid-so: 2.667 arcsec [2.58 sigma]
OotOffset-rm: 2.752 arcsec [2.64 sigma]
KicOffset-rm: 2.313 arcsec [2.10 sigma]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.35 [6/17]
DiffImageOverlap-fno: 0.00 [0/17]

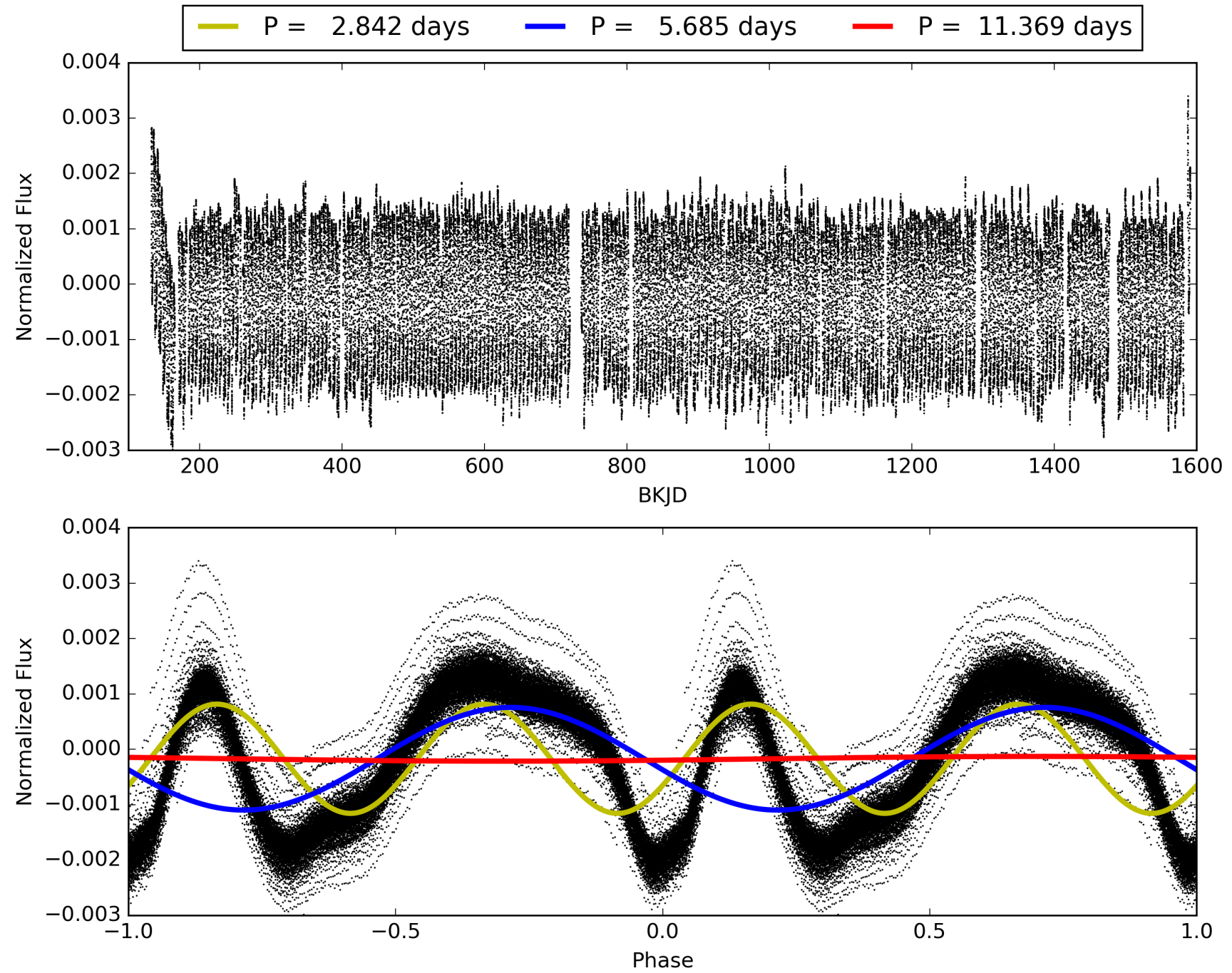
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:24:51 Z

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

TCE 010195926-02, PDC Light Curves

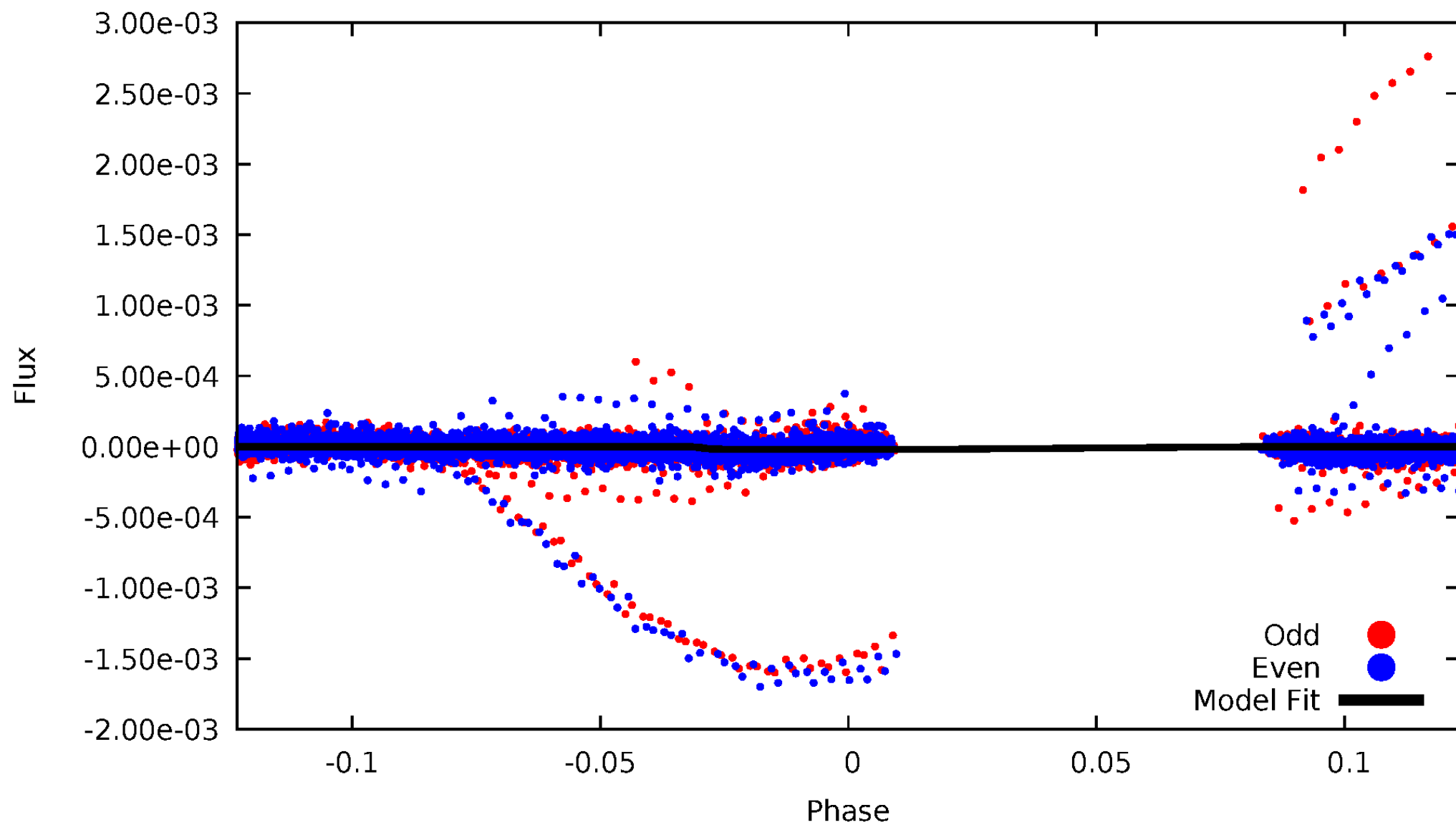


TCE 010195926-02



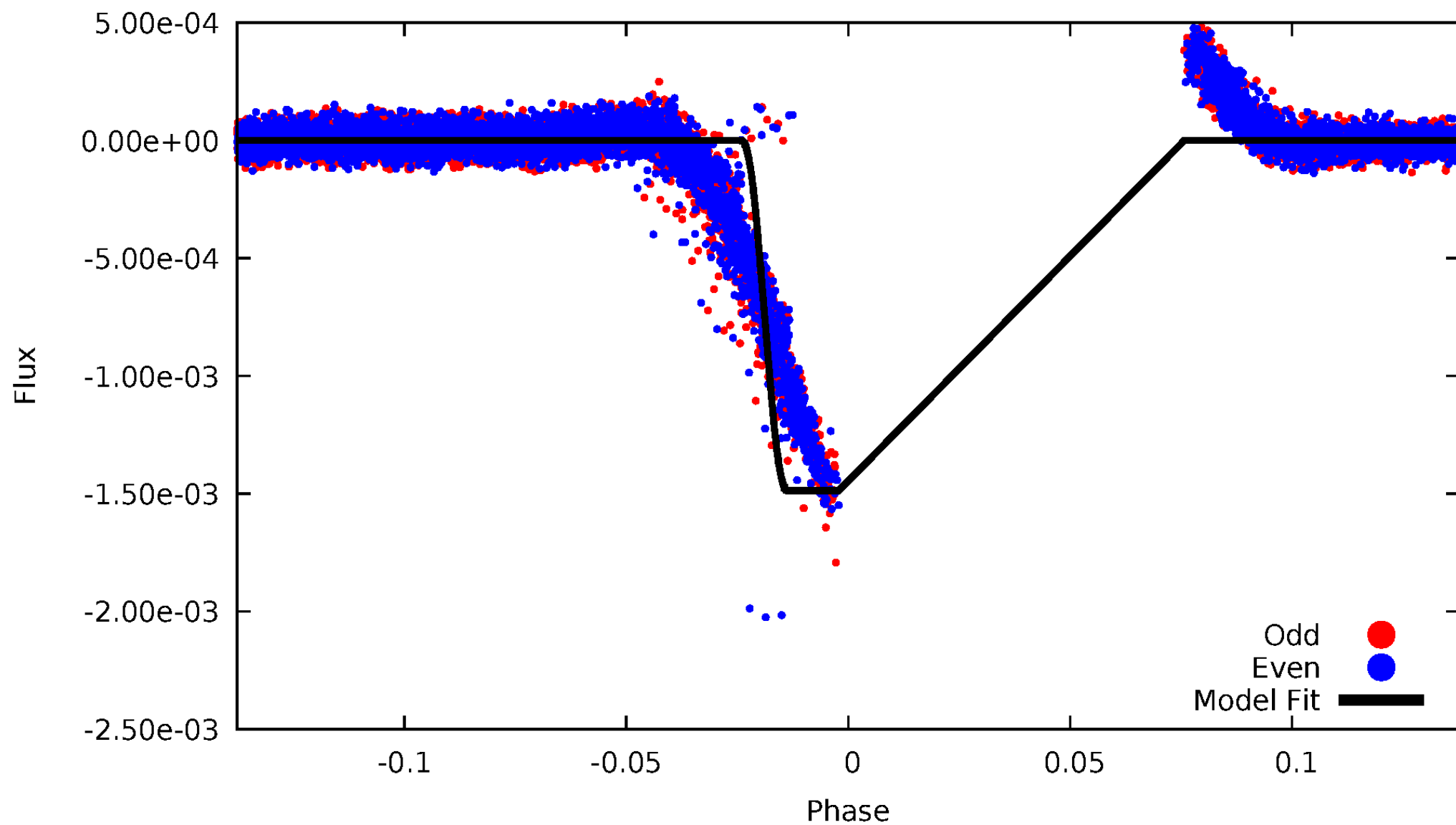
DV Odd/Even

TCE 010195926-02



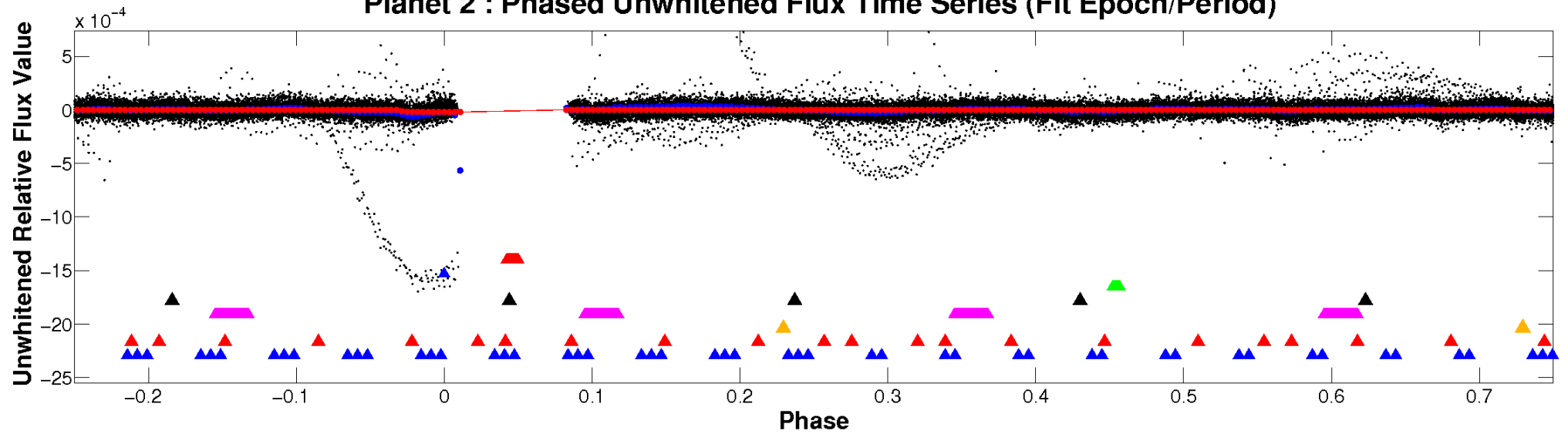
ALT Odd/Even

TCE 010195926-02

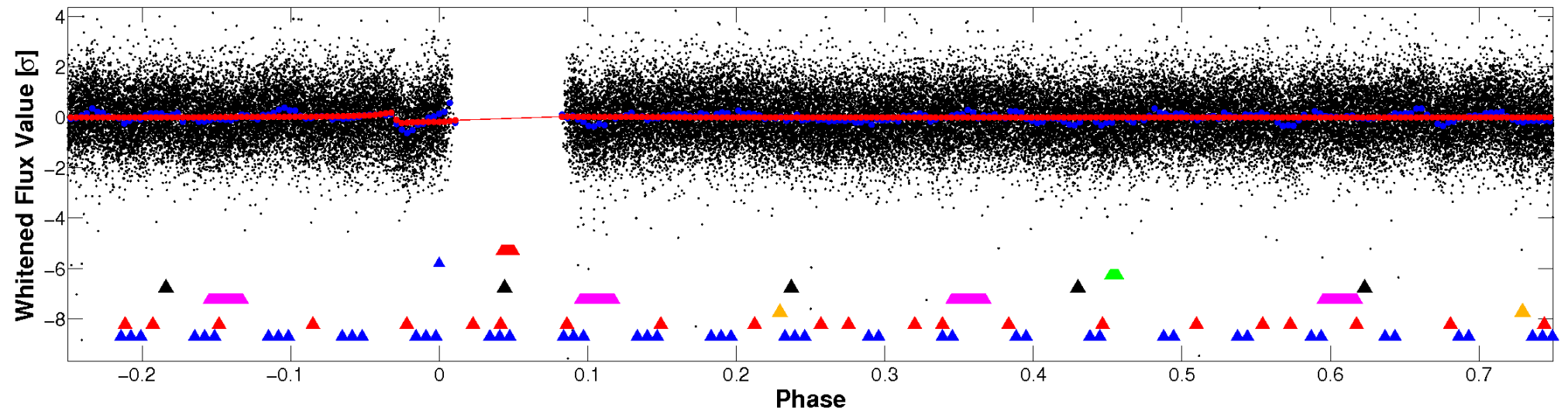


Non-Whitened Vs. Whitened Light Curve

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

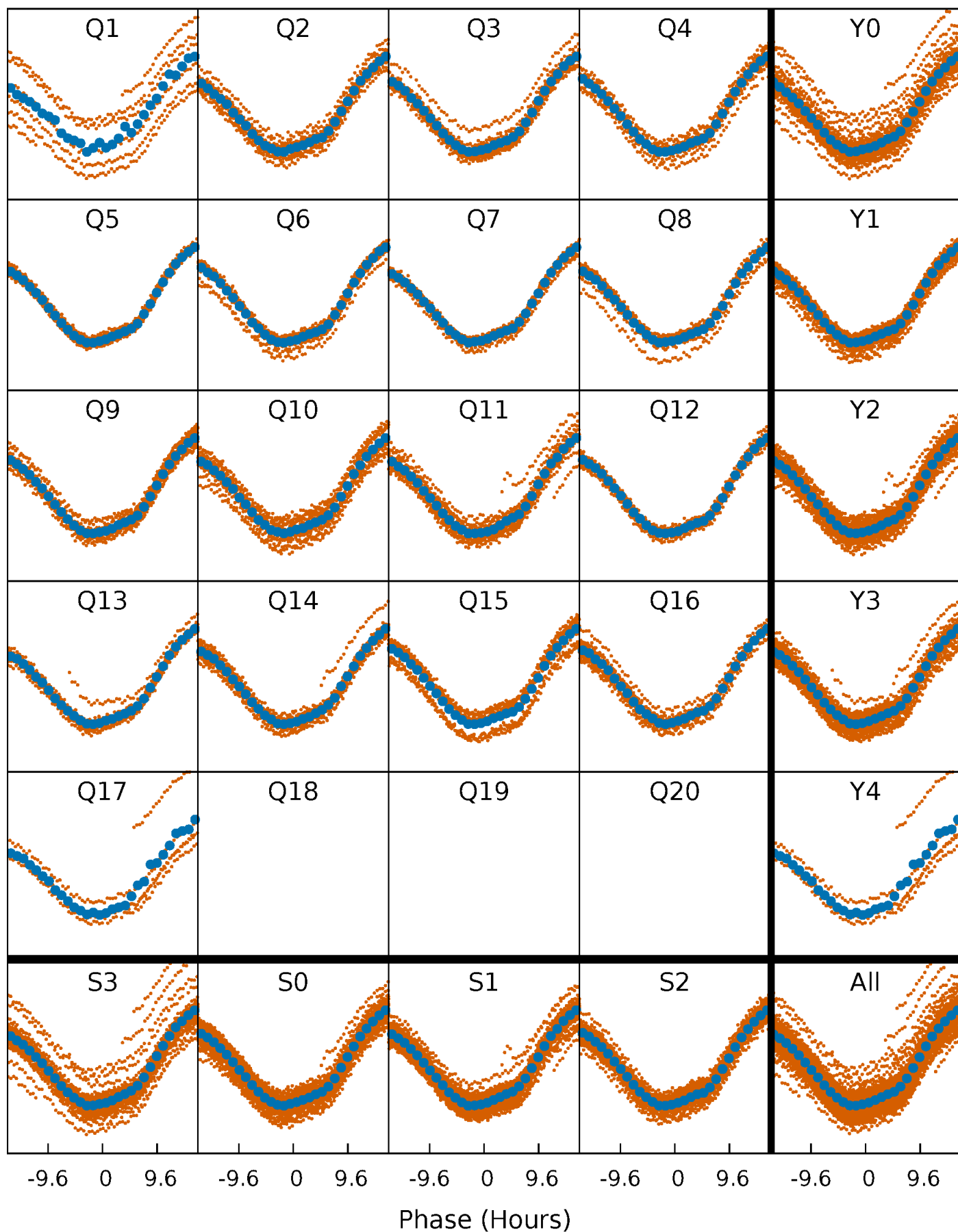


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



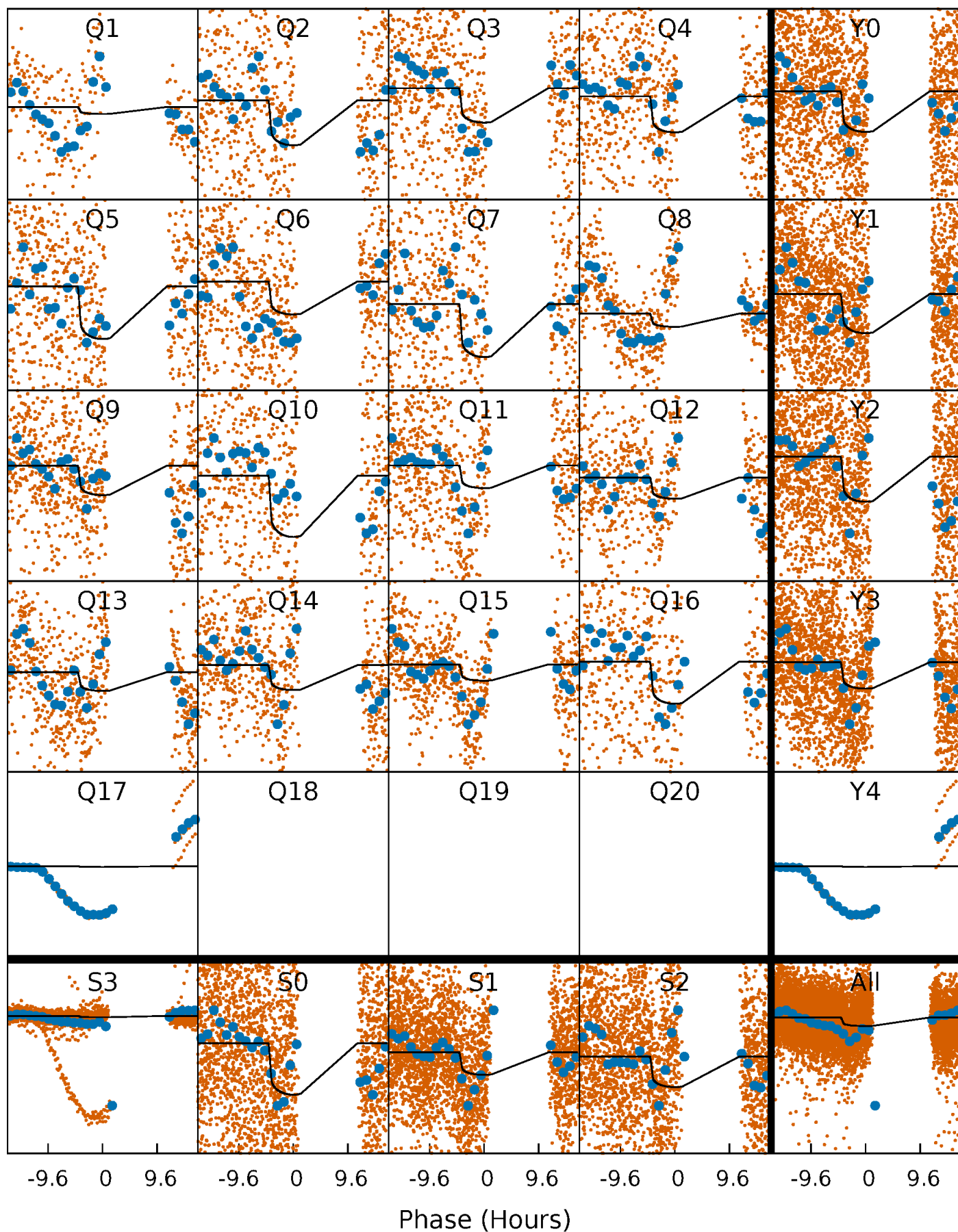
PDC Quarter-Phased Transit Curves

TCE 010195926-02 P= 5.684515 Days $T_0=137.050510$ (BKJD)



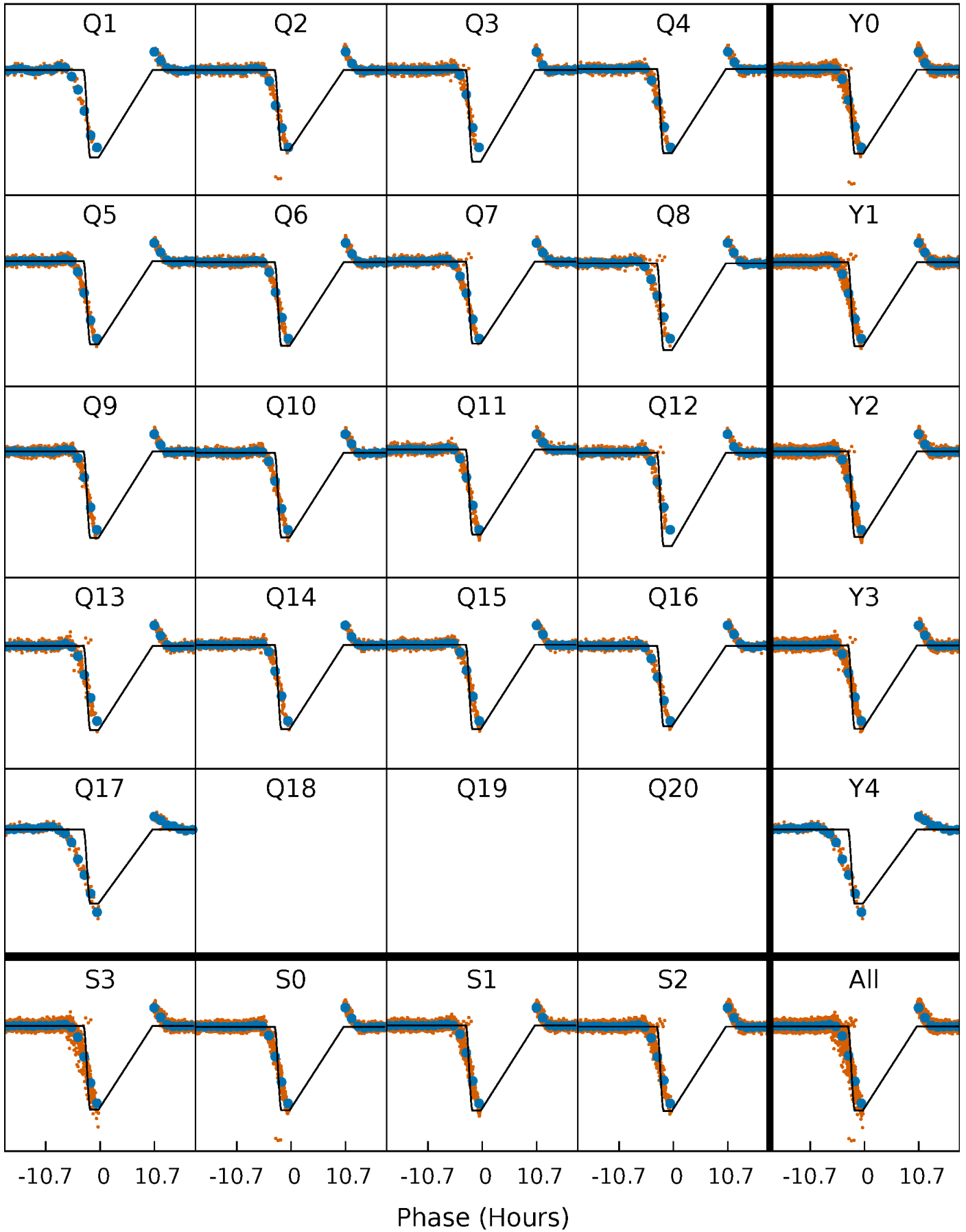
DV Quarter-Phased Transit Curves

TCE 010195926-02 P= 5.684515 Days $T_0=137.050510$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

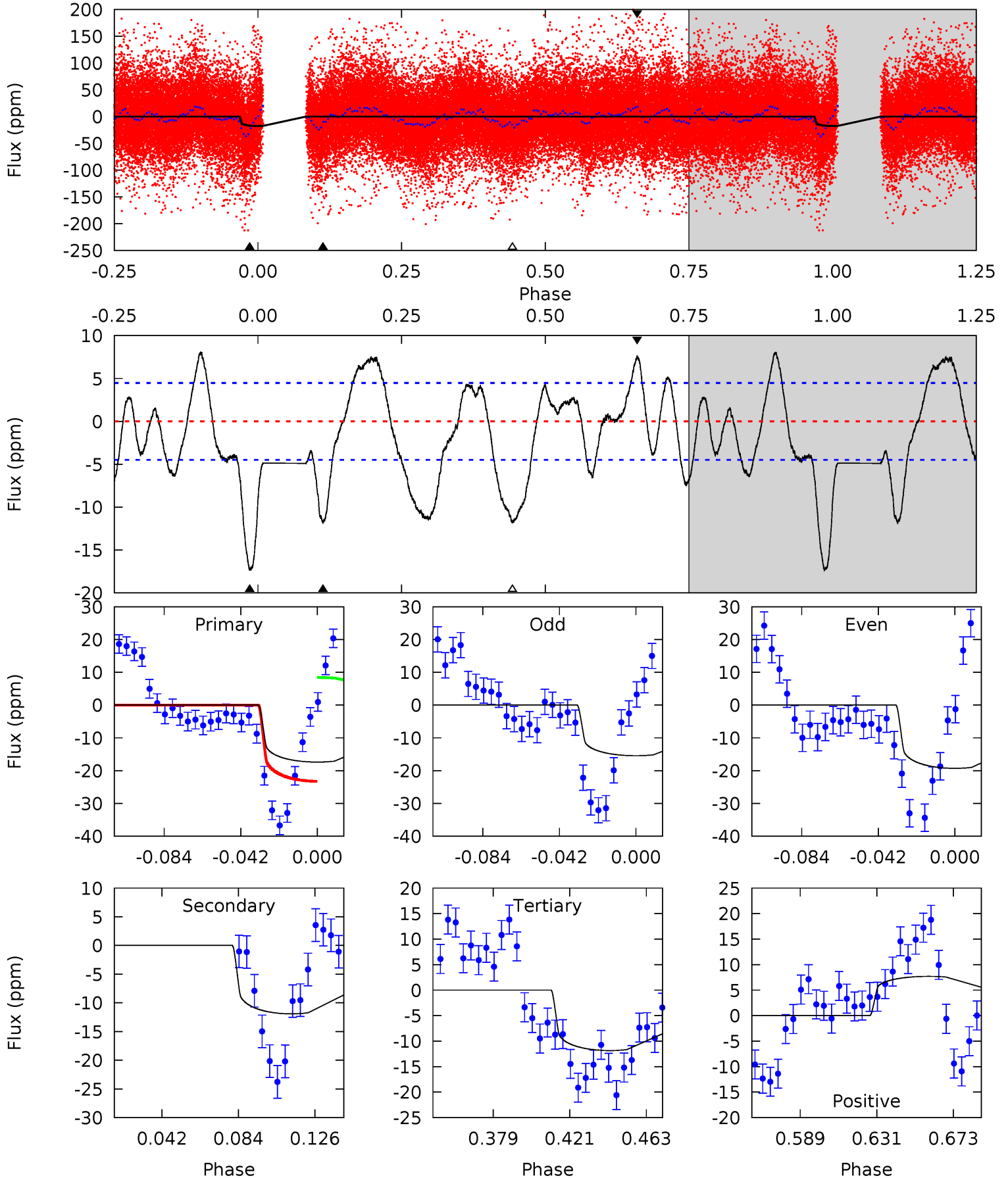
TCE 010195926-02 P= 5.684619 Days $T_0=137.091323$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-02, P = 5.684515 Days, E = 131.365995 Days

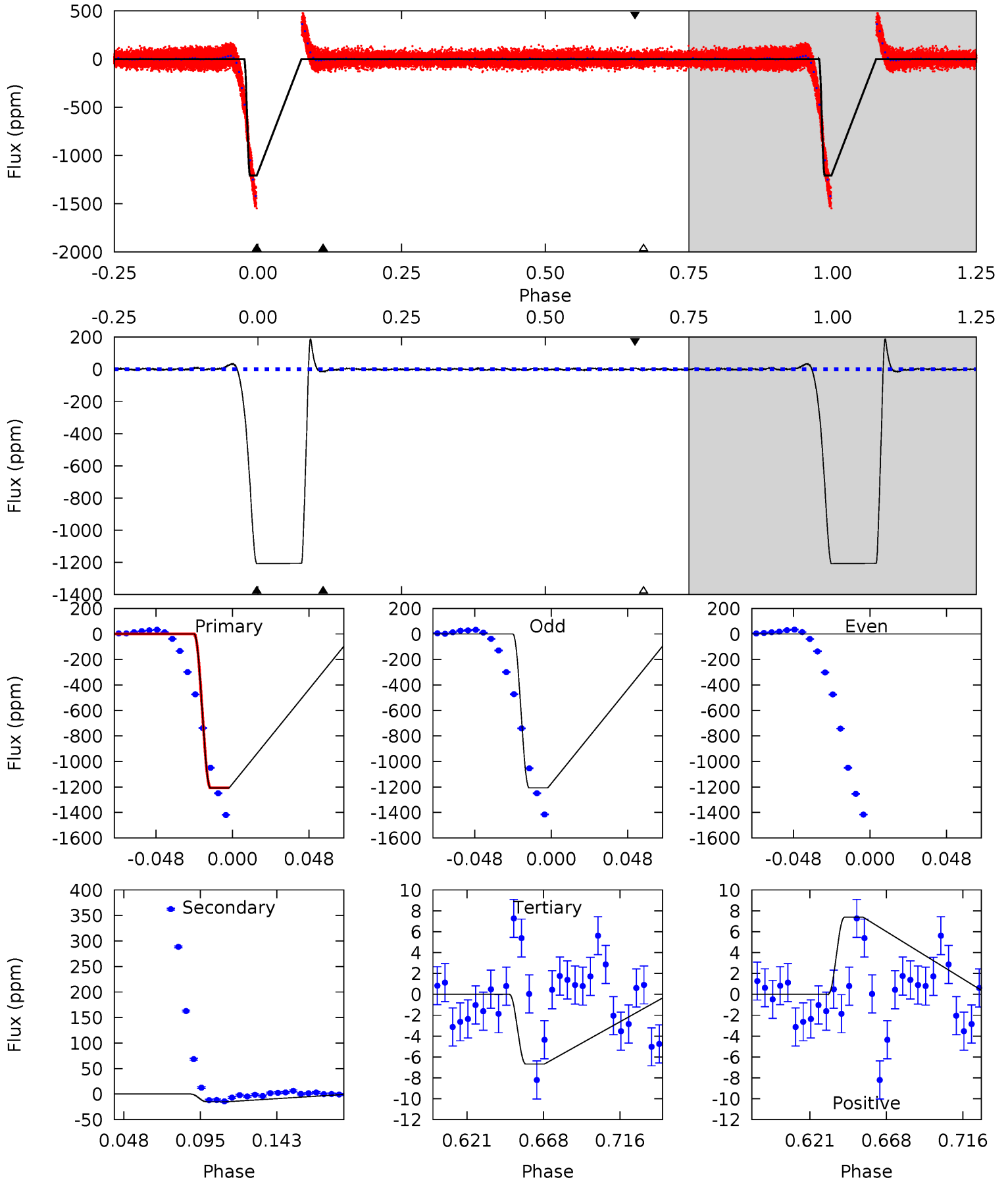
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.4	12.6	12.6	8.15	4.74	2.03	5.37	5.88	10.3	0.07	4.47	2.05	2.57	0.32	5.61



Alt Model-Shift Uniqueness Test

010195926-02, P = 5.684619 Days, E = 131.406704 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1027	12.9	5.68	6.28	4.72	1.98	2.86	1022	1021	7.20	6.60	0	0	0.14	0



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-12 ± 1	$1.67^{+0.35}_{-0.49}$	3048^{+202}_{-439}	6245^{+561}_{-428}	13^{+11}_{-4}
Alt.	-15 ± 1	$13.95^{+1.10}_{-3.95}$	3048^{+206}_{-408}	-2415^{+5017}_{-296}	$0.256^{+0.196}_{-0.049}$

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 $A_{obs} \gg 1.0$

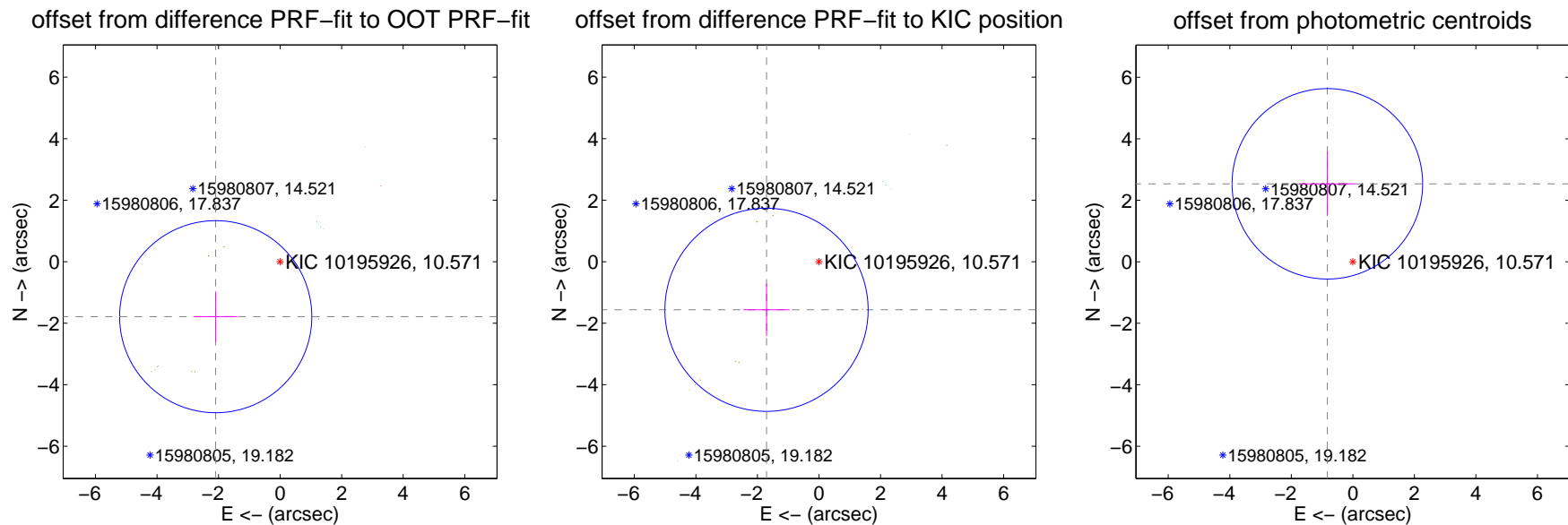
DV Centroid Data

Supplemental centroid analysis for 010195926-02. **Kepler magnitude: 10.57.** Transit SNR 10.31

There are 6 quarters with good PRF difference image offsets

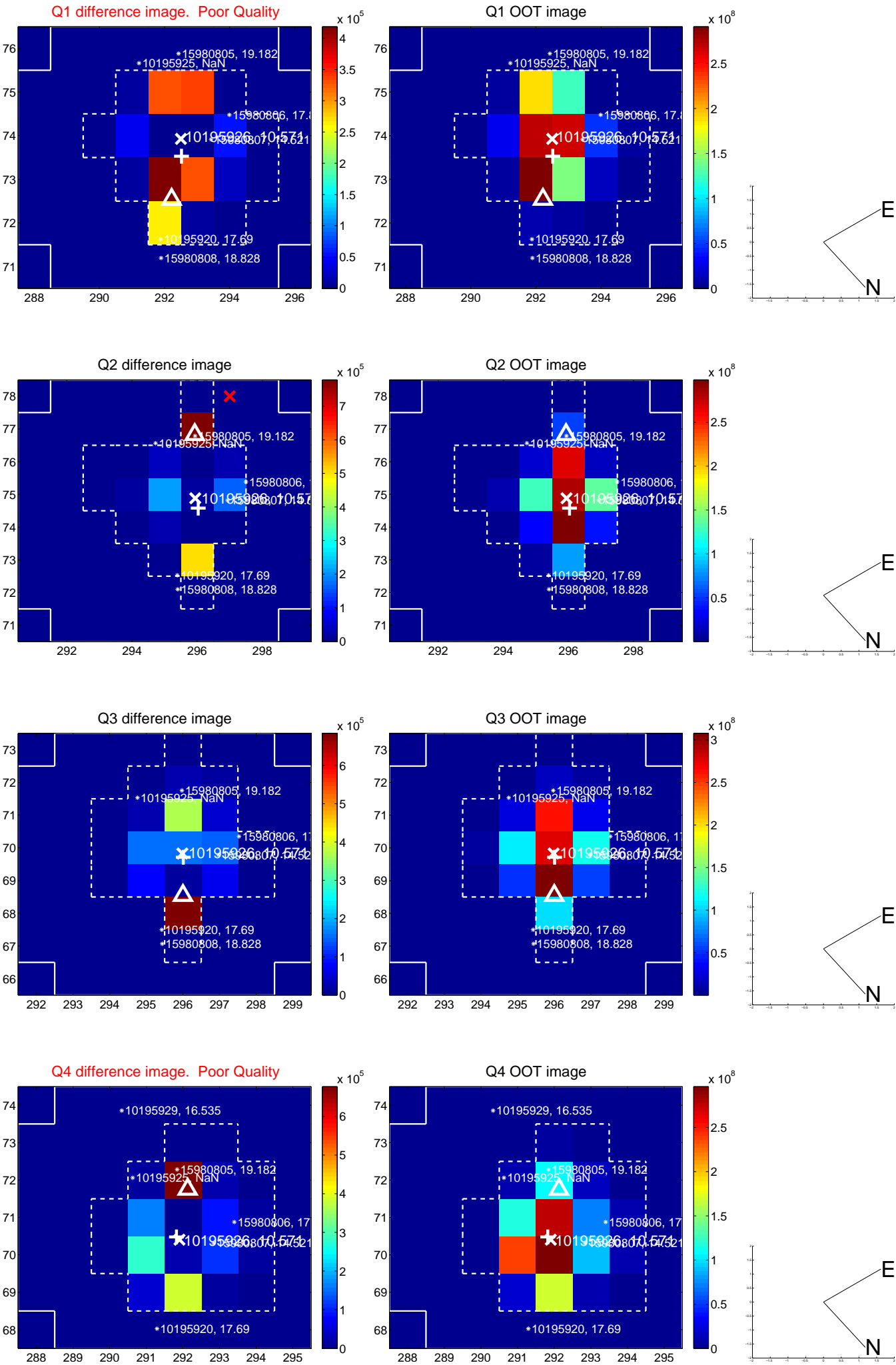
The direct PRF centroid is offset from the target star catalog position by about 1.59 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.752 ± 1.041	2.64	2.092 ± 0.705	-1.788 ± 0.819
PRF-fit source offset from KIC position	2.313 ± 1.101	2.10	1.705 ± 0.749	-1.564 ± 0.849
photometric centroid source offset	2.67 ± 1.03	2.58	0.83 ± 0.91	2.54 ± 1.04

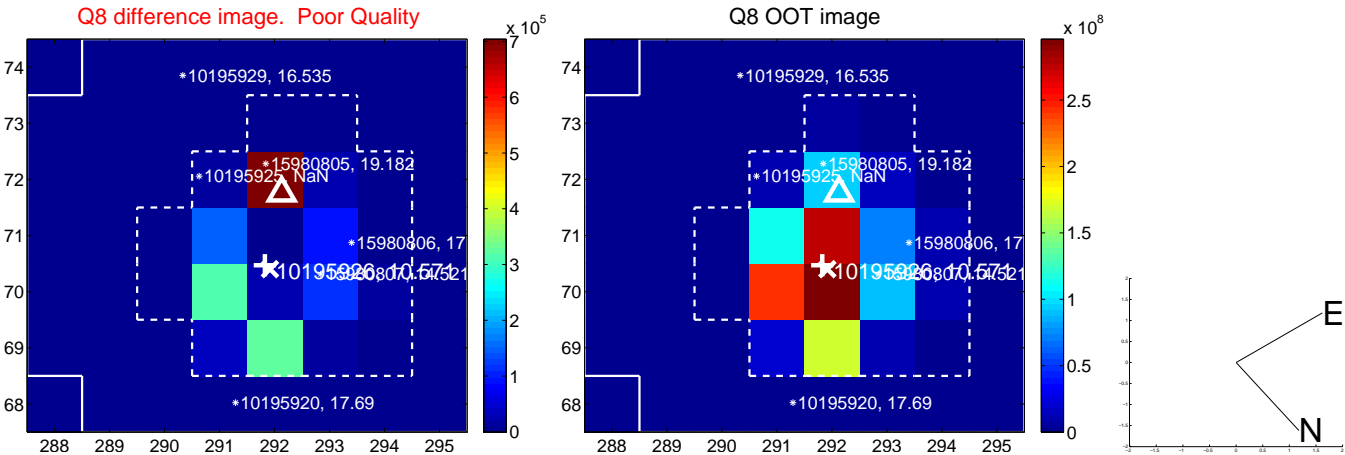
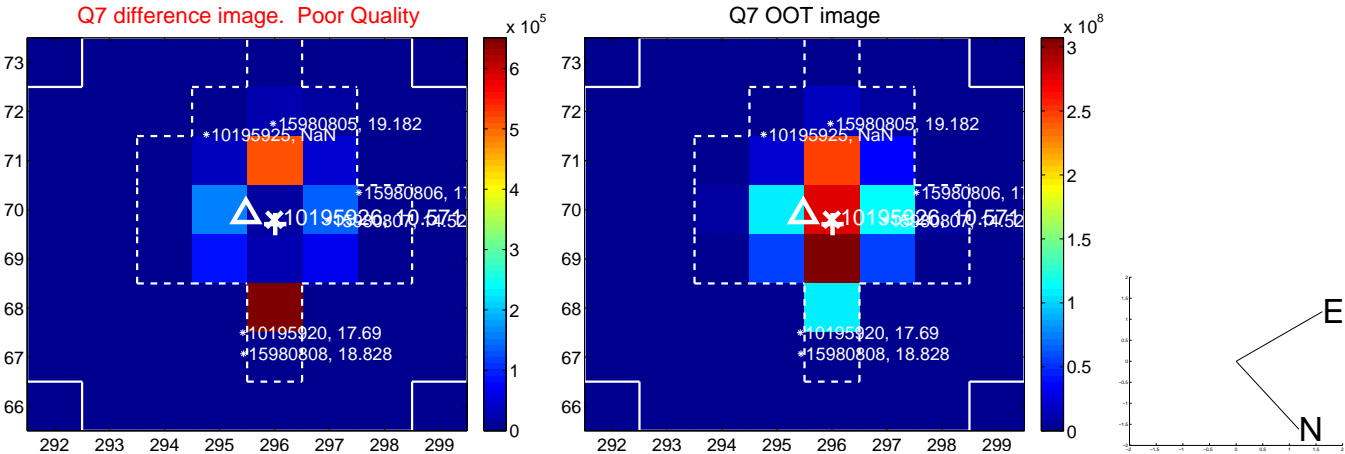
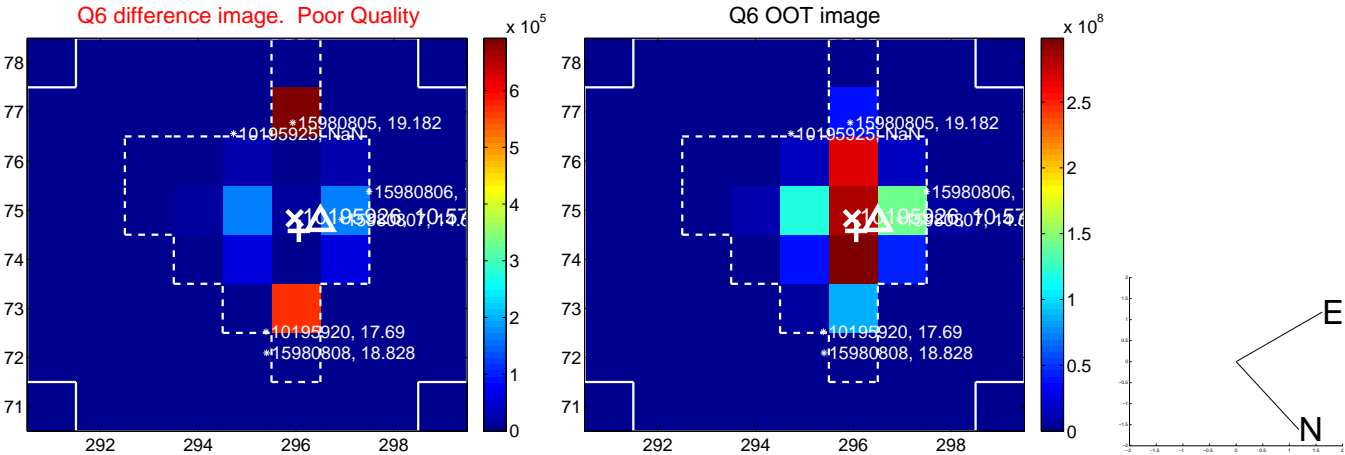
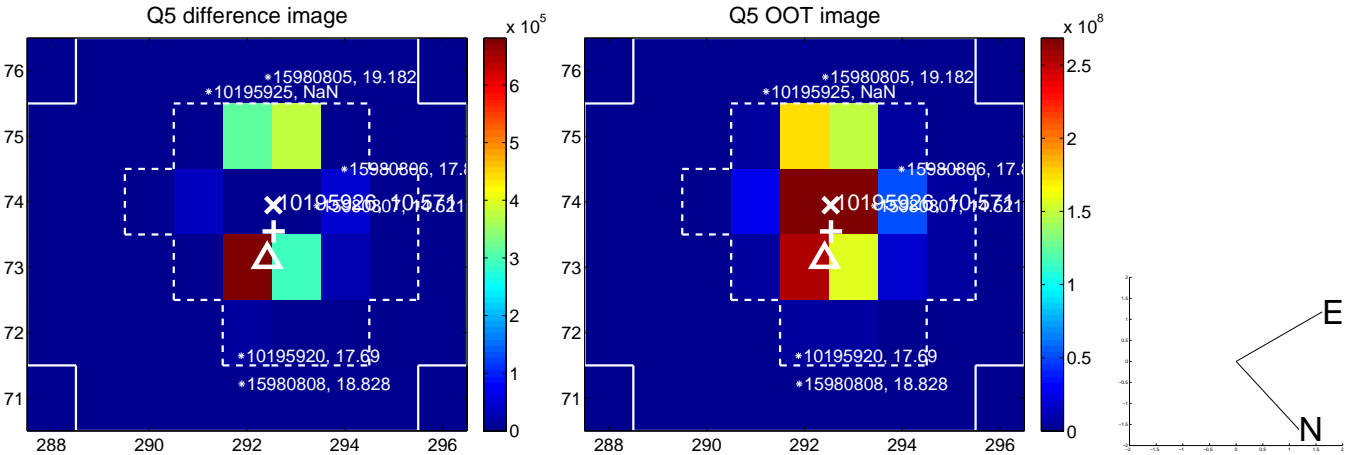


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

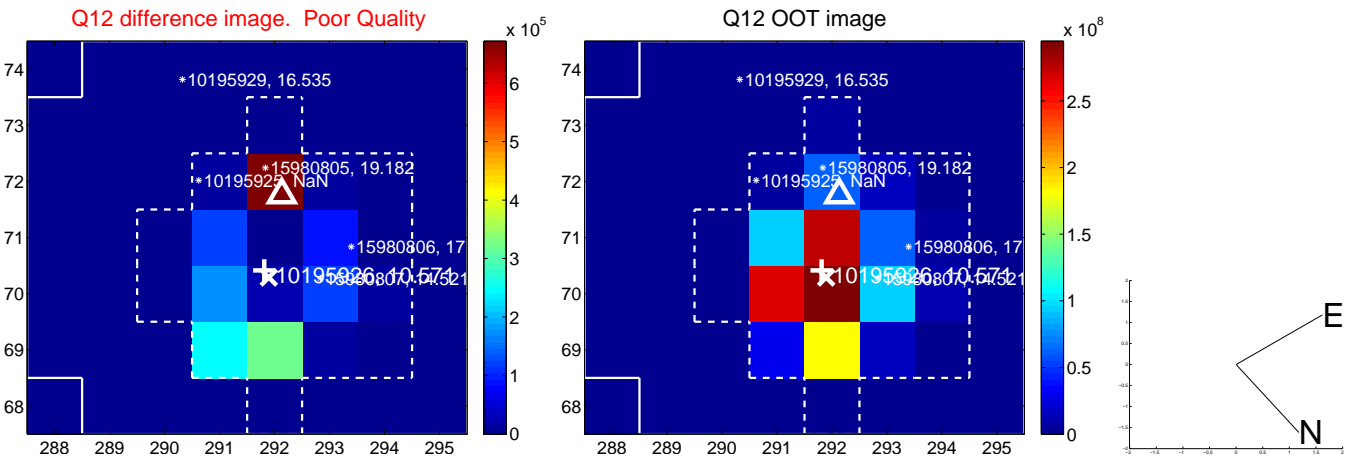
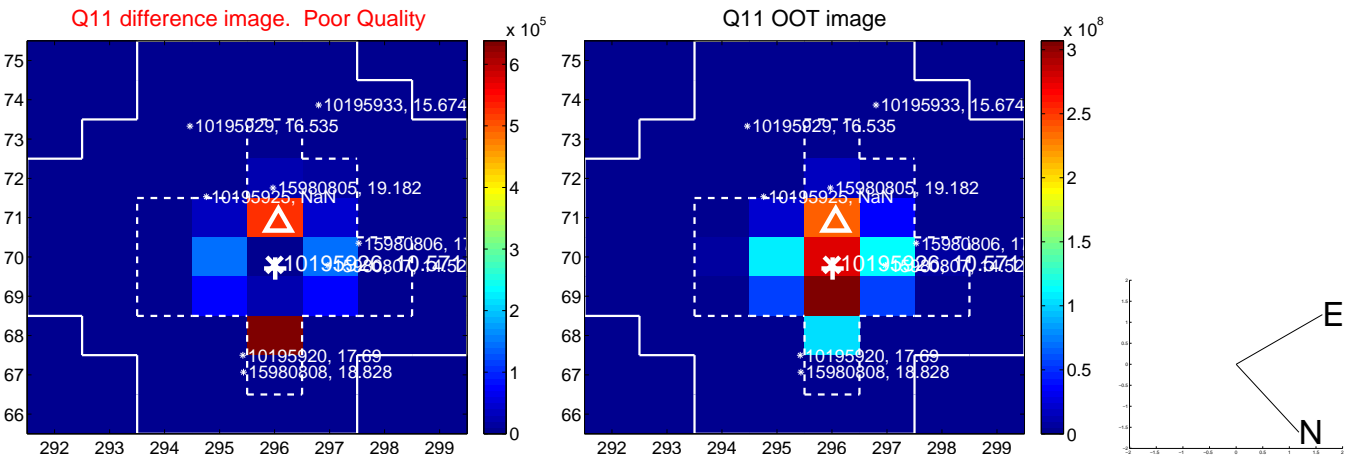
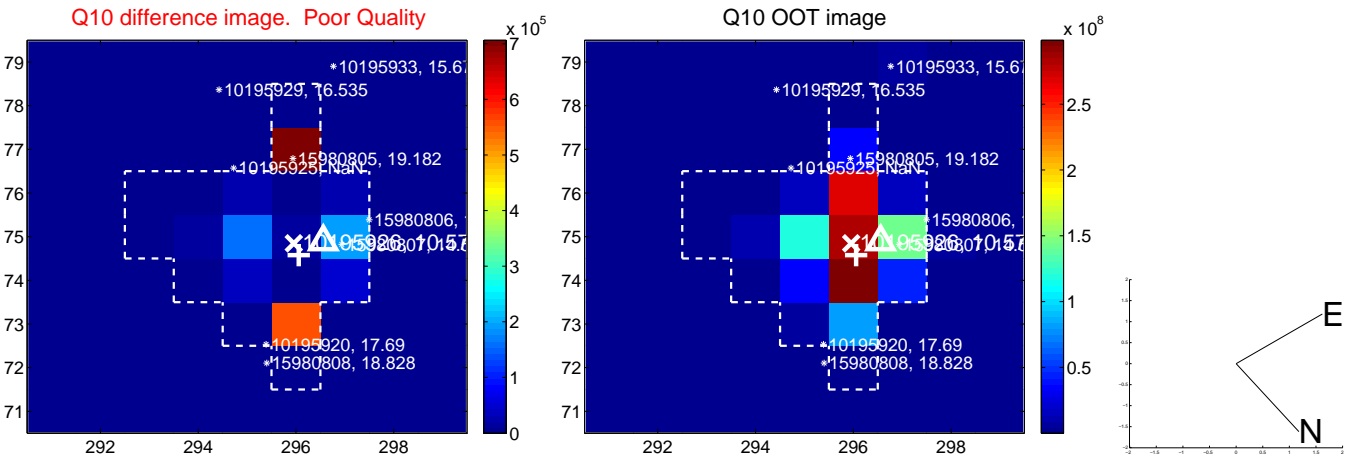
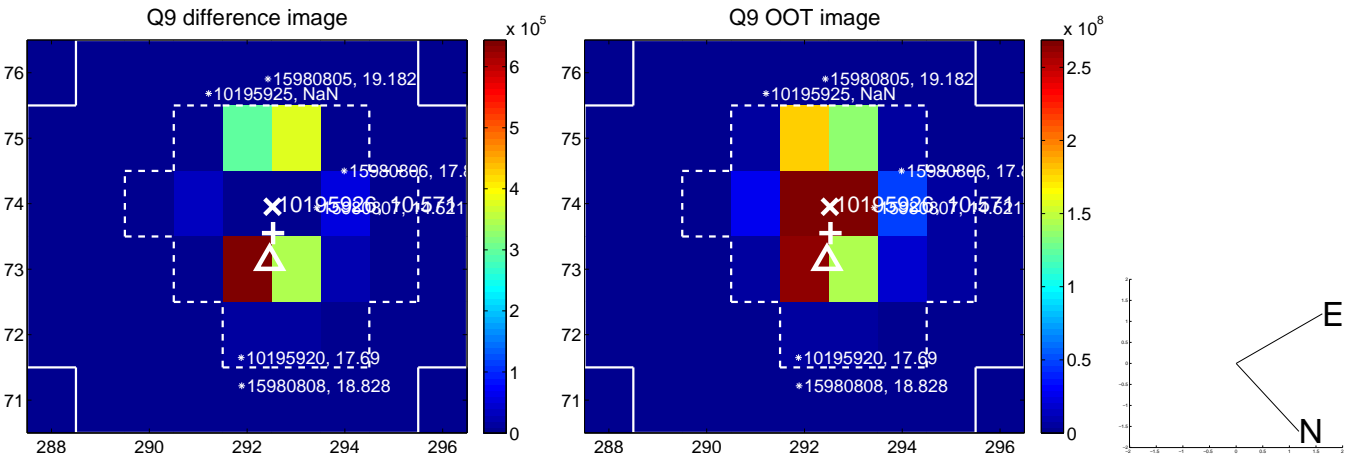
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



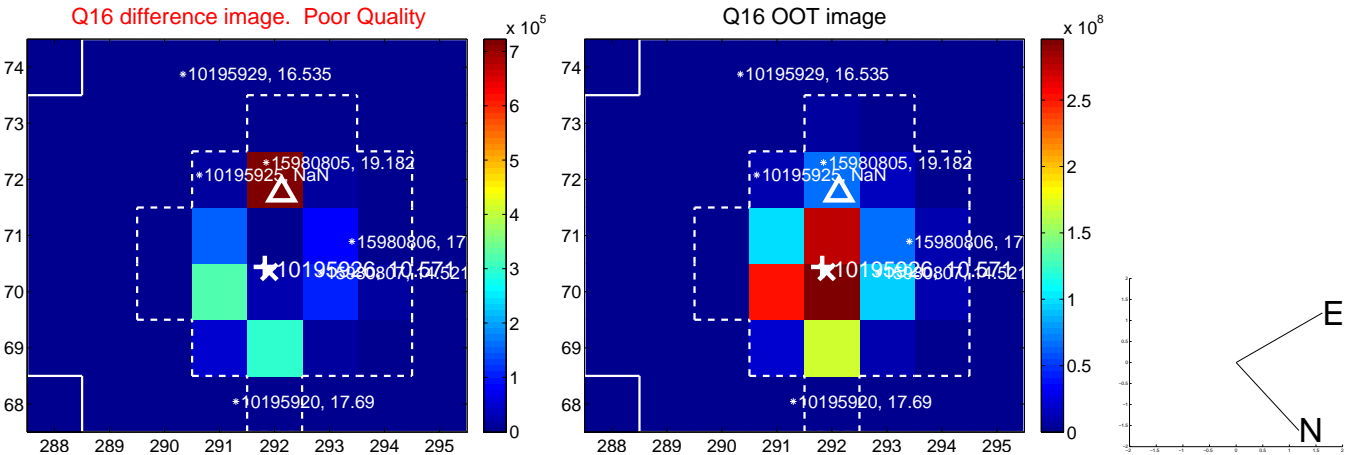
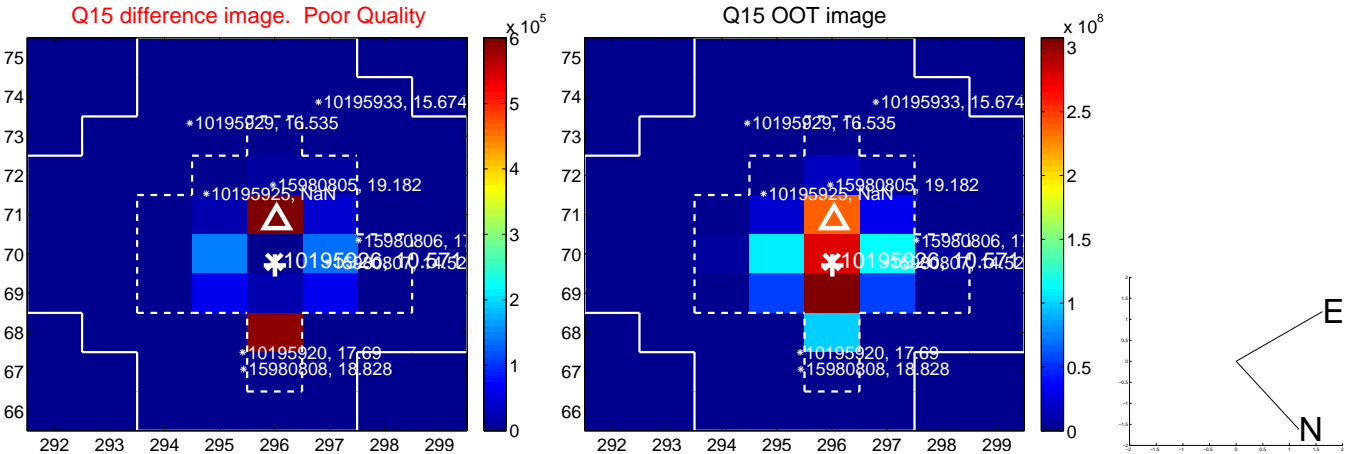
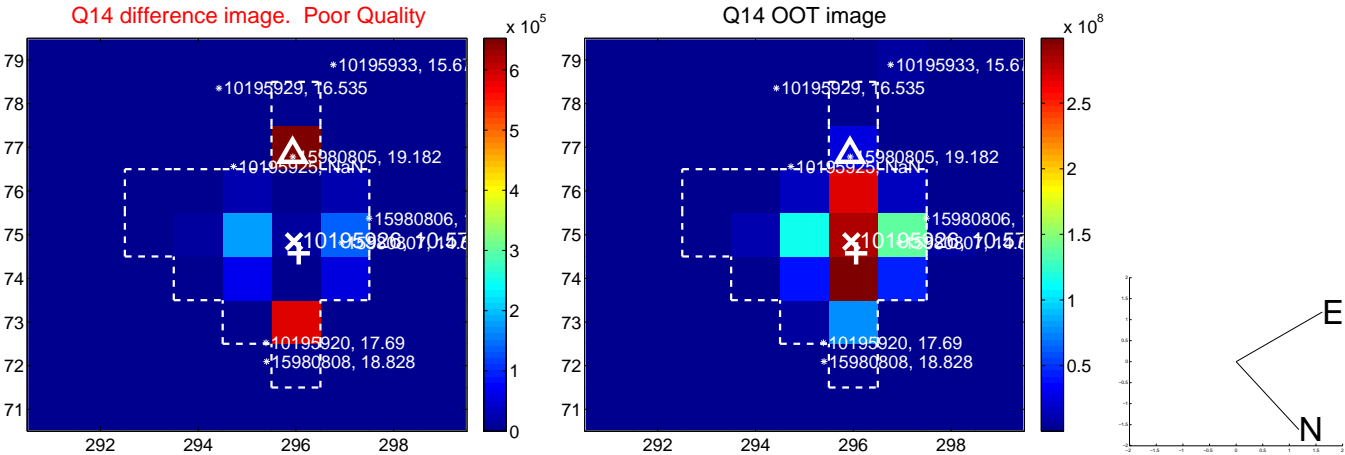
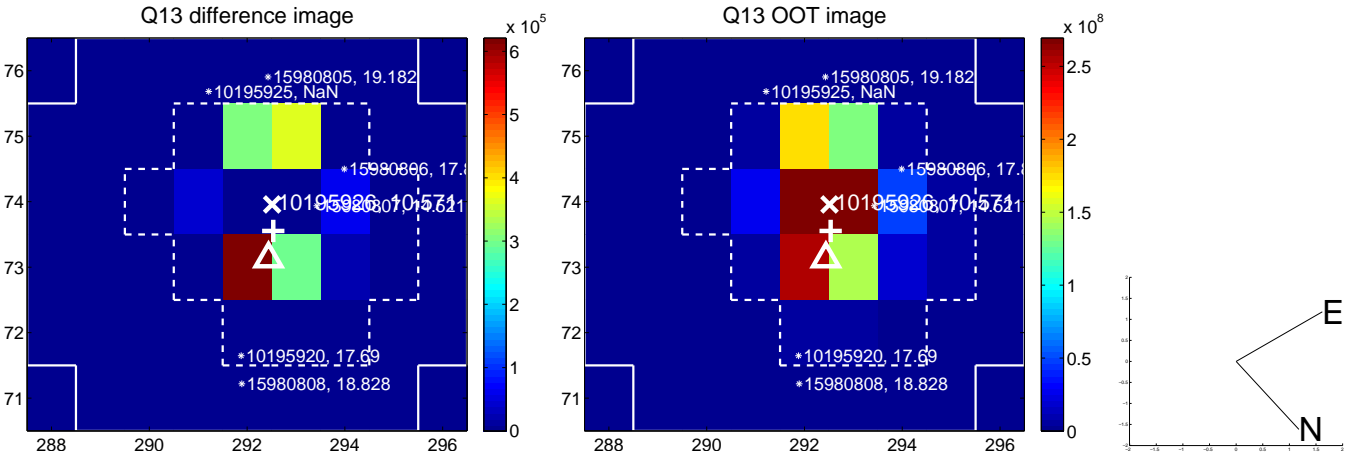
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



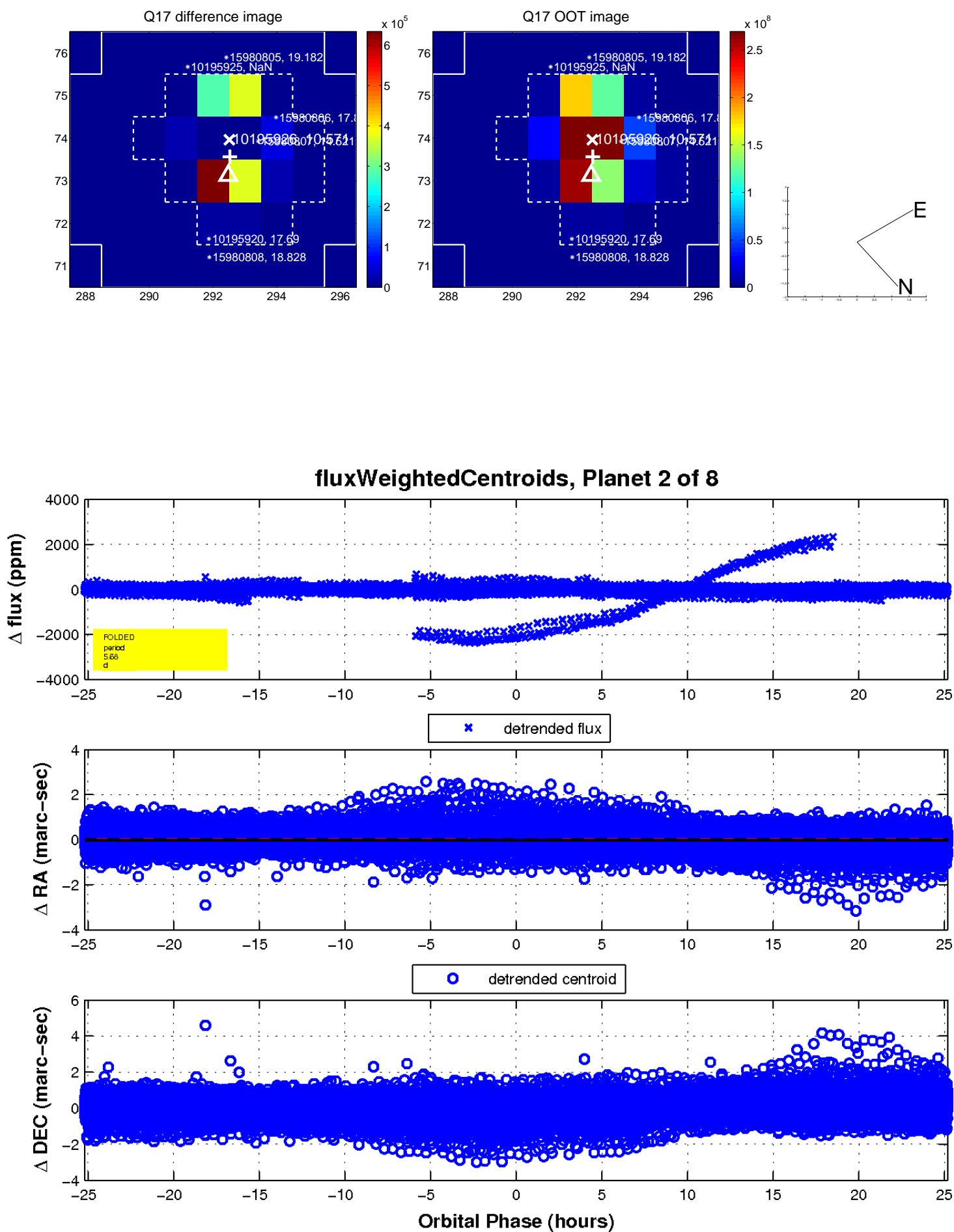
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

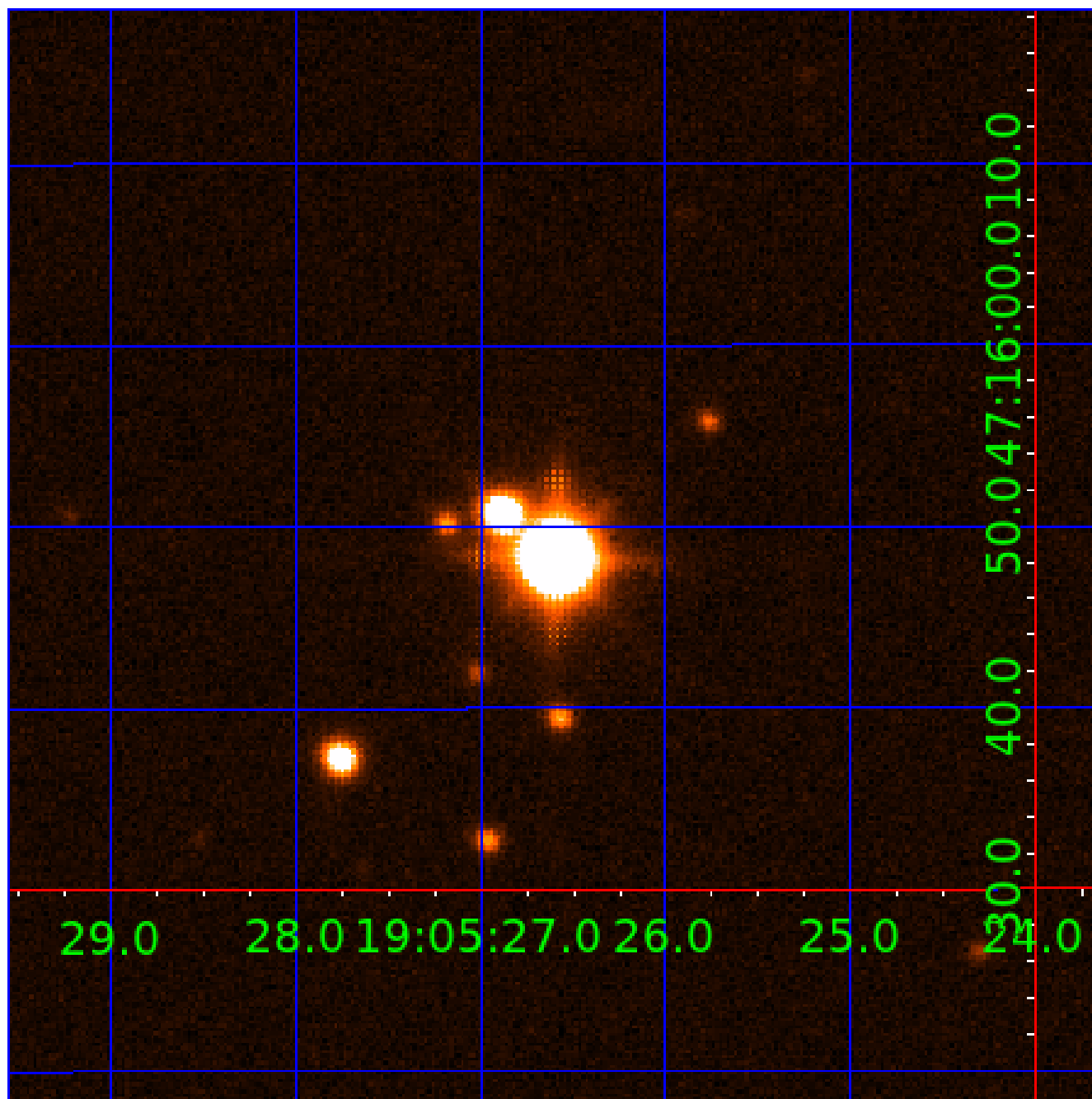


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

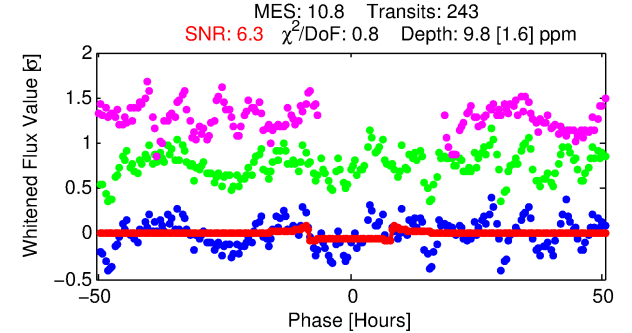
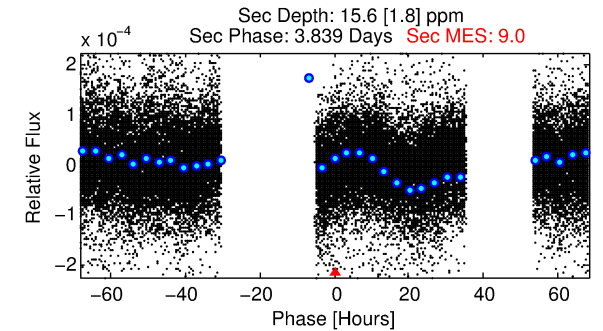
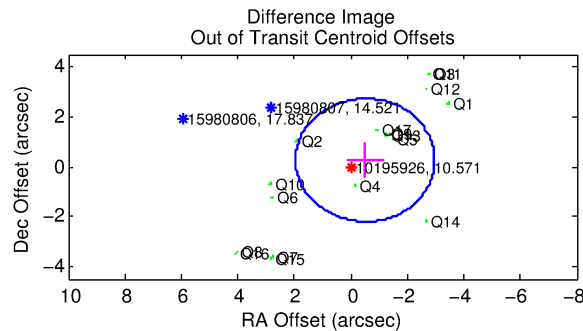
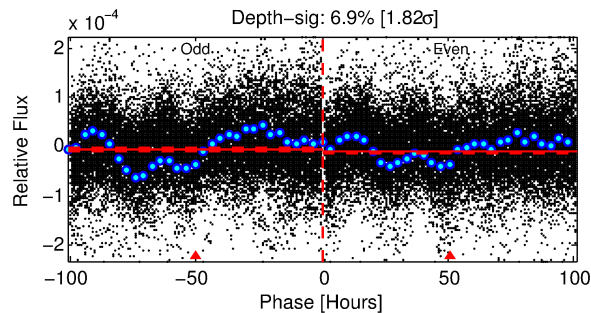
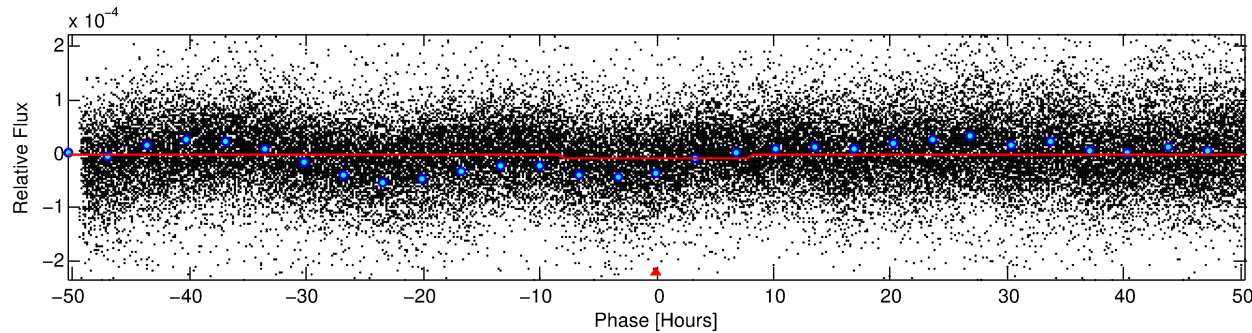
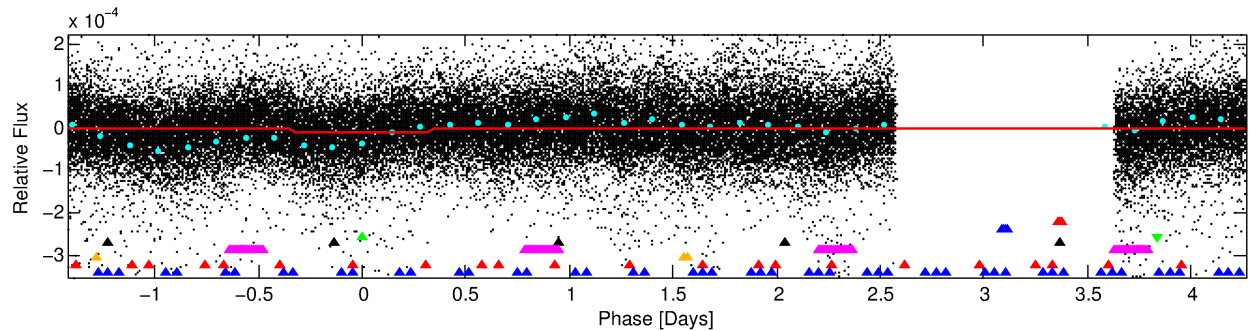
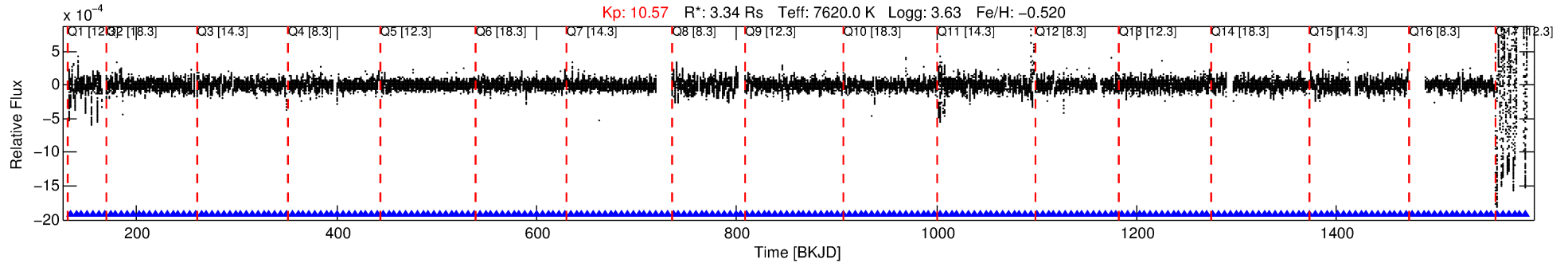
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-03

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 3 of 8 Period: 5.685 d



DV Fit Results:

Period = 5.68463 [0.00007] d
Epoch = 133.9345 [0.0088] BKJD
 $R_p/R^* = 0.0034$ [0.0004]
 $a/R^* = 1.41$ [0.29]
 $b = 0.92$ [0.07]
 $S_{\text{eff}} = 5972.95$ [5668.13]
 $T_{\text{eq}} = 2242$ [532] K
 $R_p = 1.23$ [0.68] R_e
 $a = 0.0751$ [0.0422] AU
 $A_g = 32.00$ [30.91] [1.00 σ]
 $T_{\text{eff}} = 8243$ [615] K [7.38 σ]

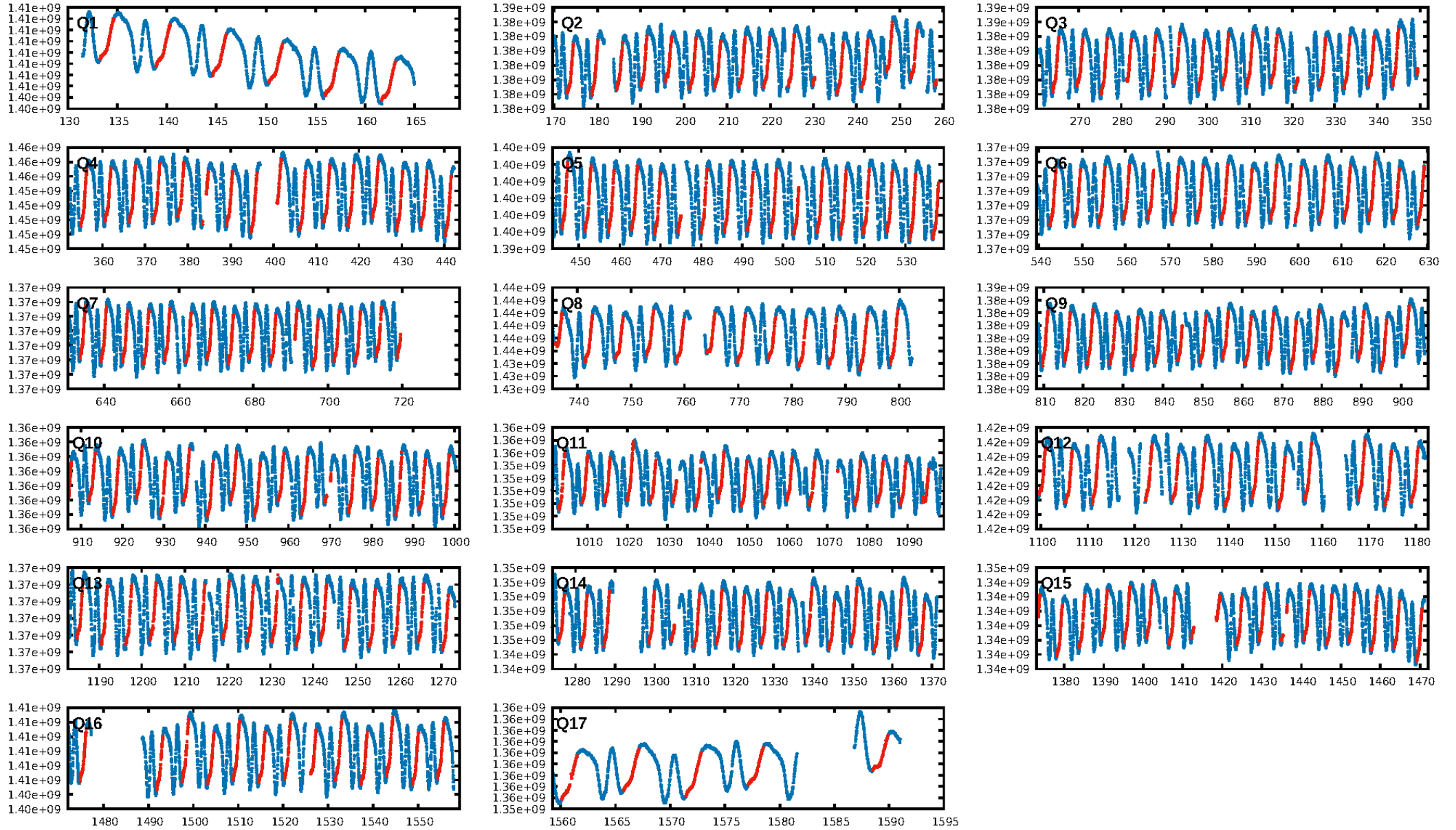
DV Diagnostic Results:

ShortPeriod-sig: 0.0% [0.00 σ]
LongPeriod-sig: 0.0% [0.00 σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [232/232]
GhostDiagnostic-chr: 0.3341
Centroid-sig: N/A
Centroid-so: 2.106 arcsec [1.10 σ]
OotOffset-rm: 0.566 arcsec [0.69 σ]
KicOffset-rm: 1.433 arcsec [1.60 σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.53 [9/17]
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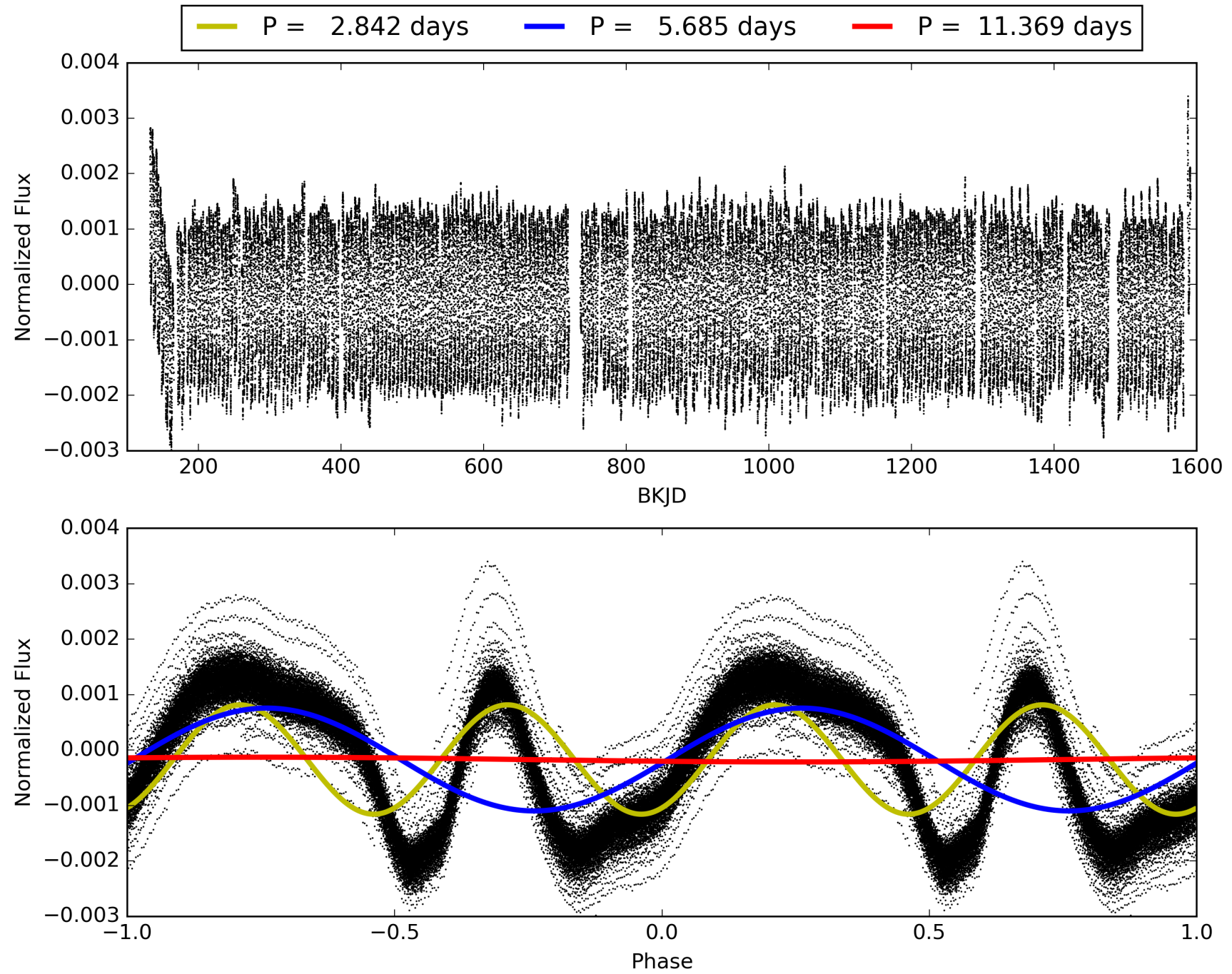
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:00 Z

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

TCE 010195926-03, PDC Light Curves

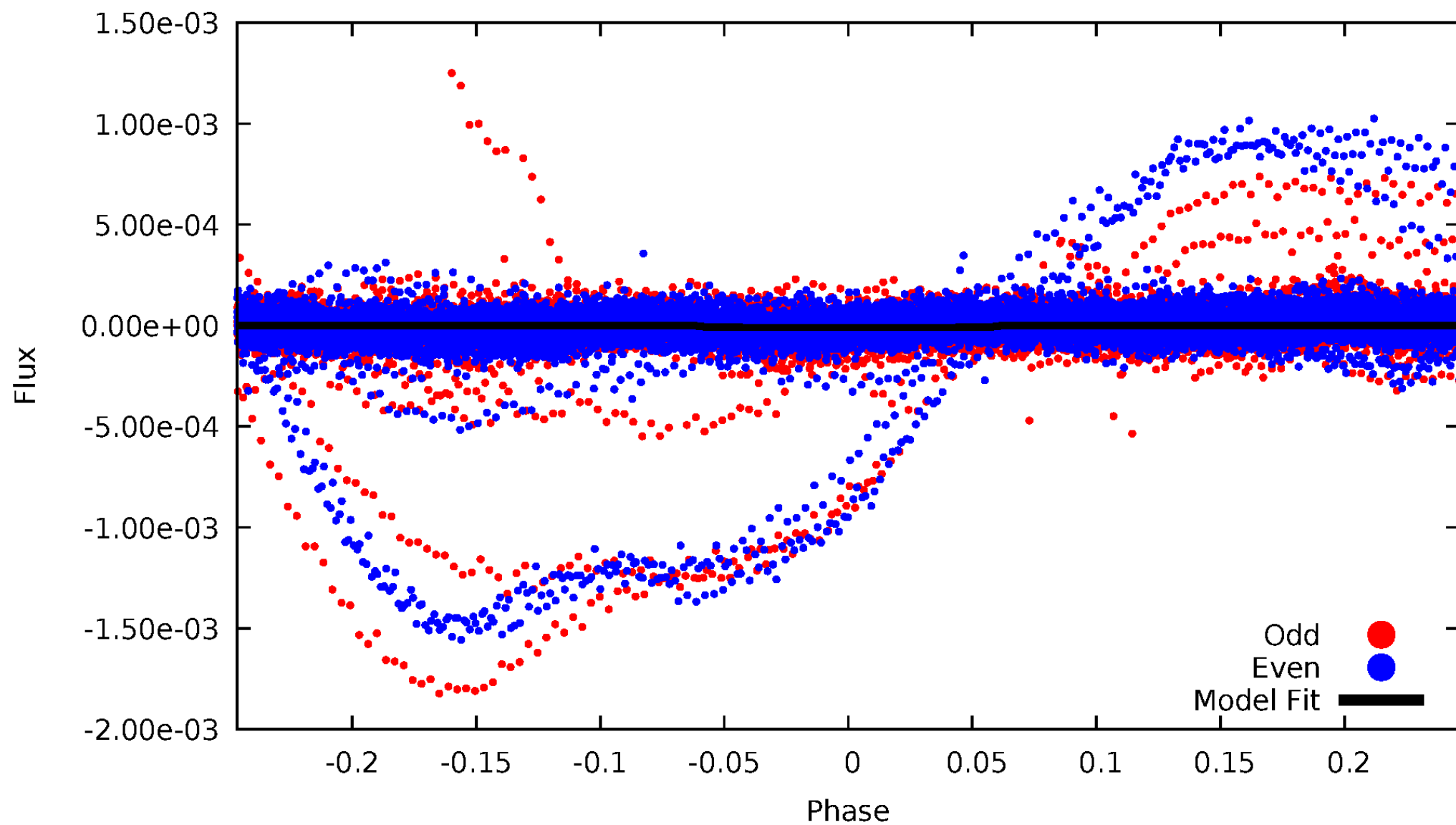


TCE 010195926-03



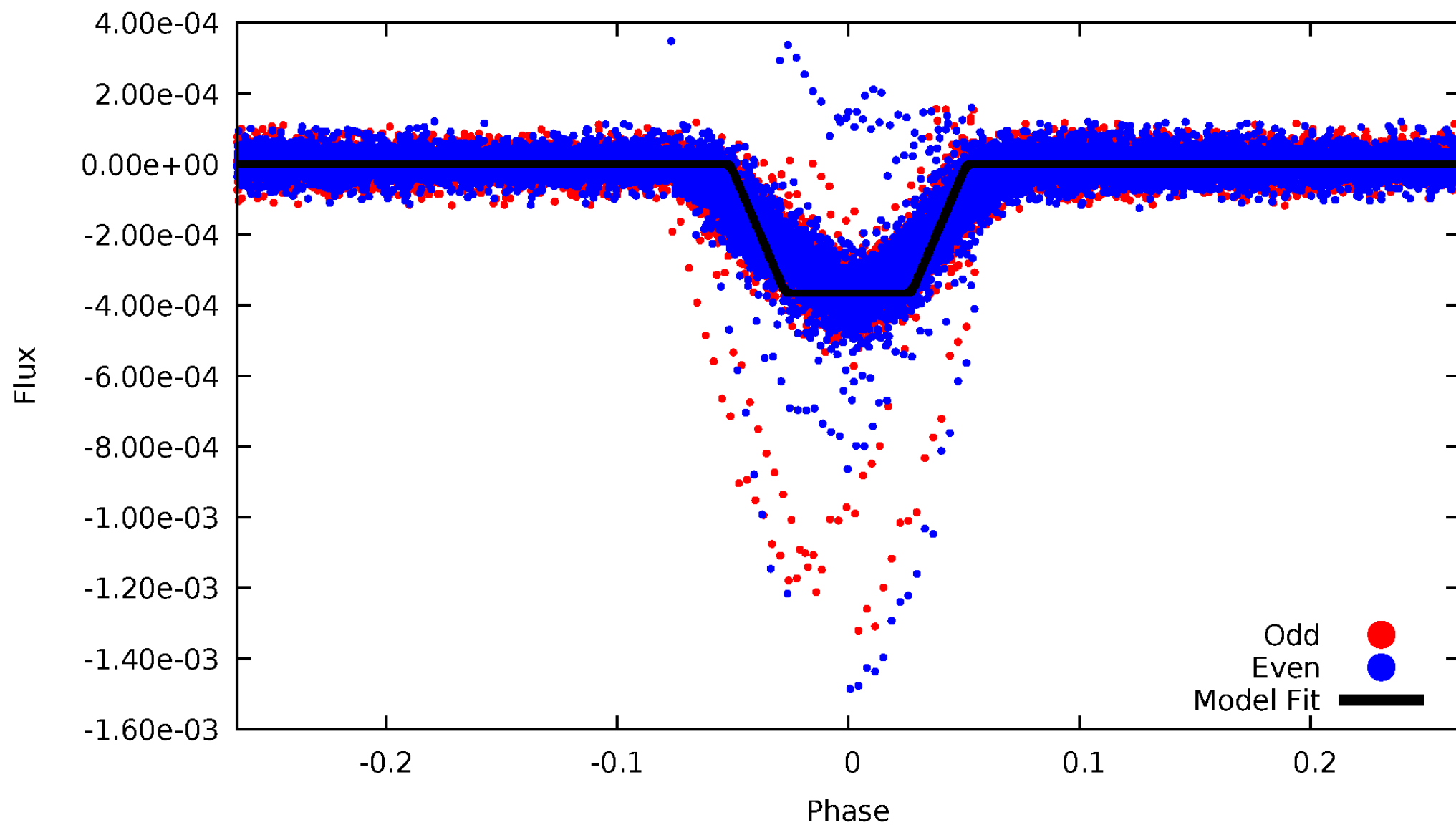
DV Odd/Even

TCE 010195926-03



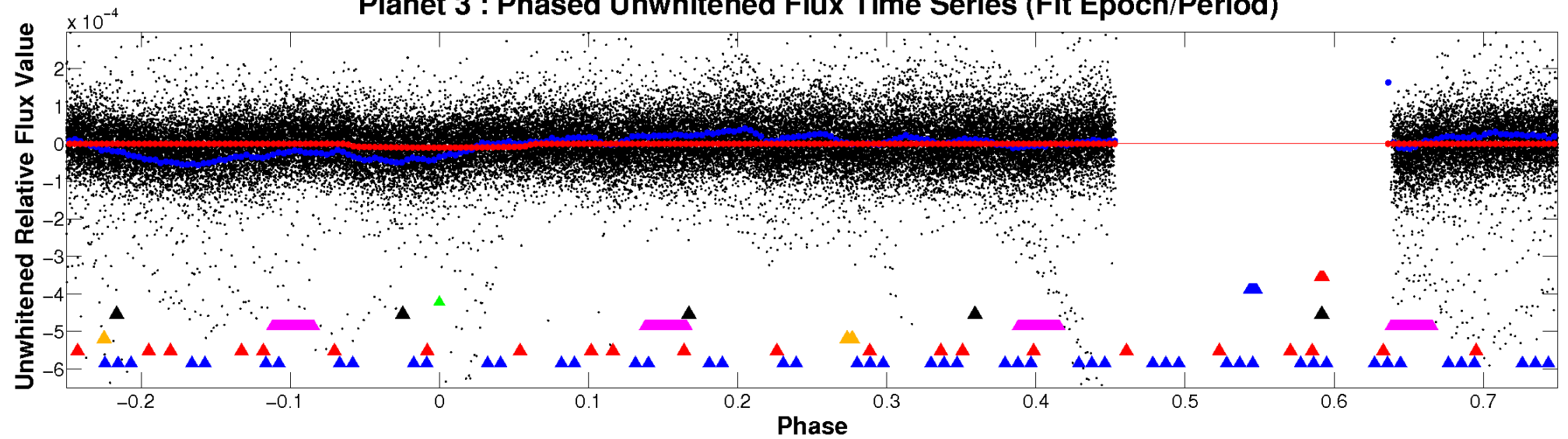
ALT Odd/Even

TCE 010195926-03

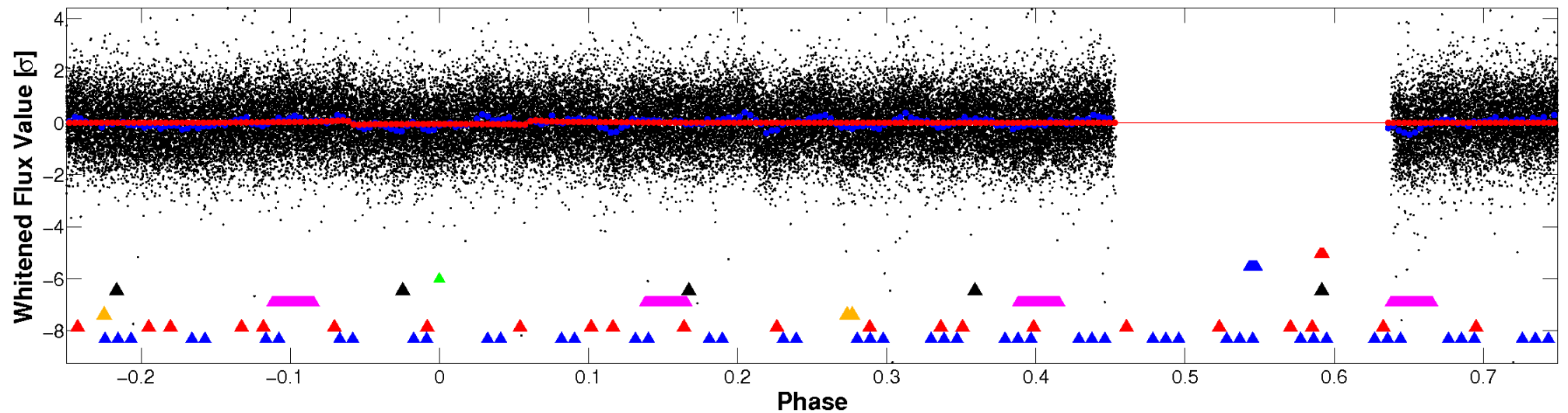


Non-Whitened Vs. Whitened Light Curve

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

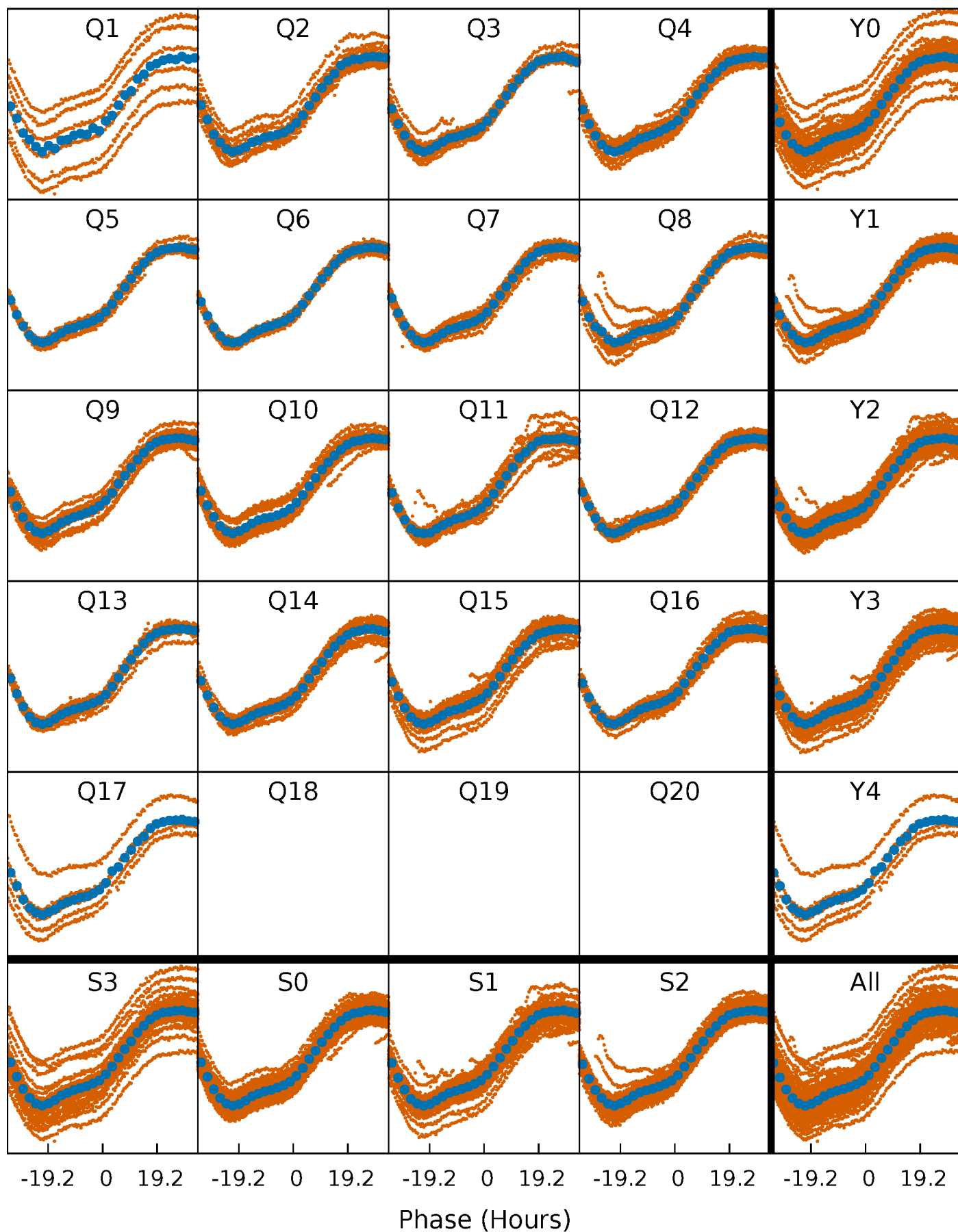


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



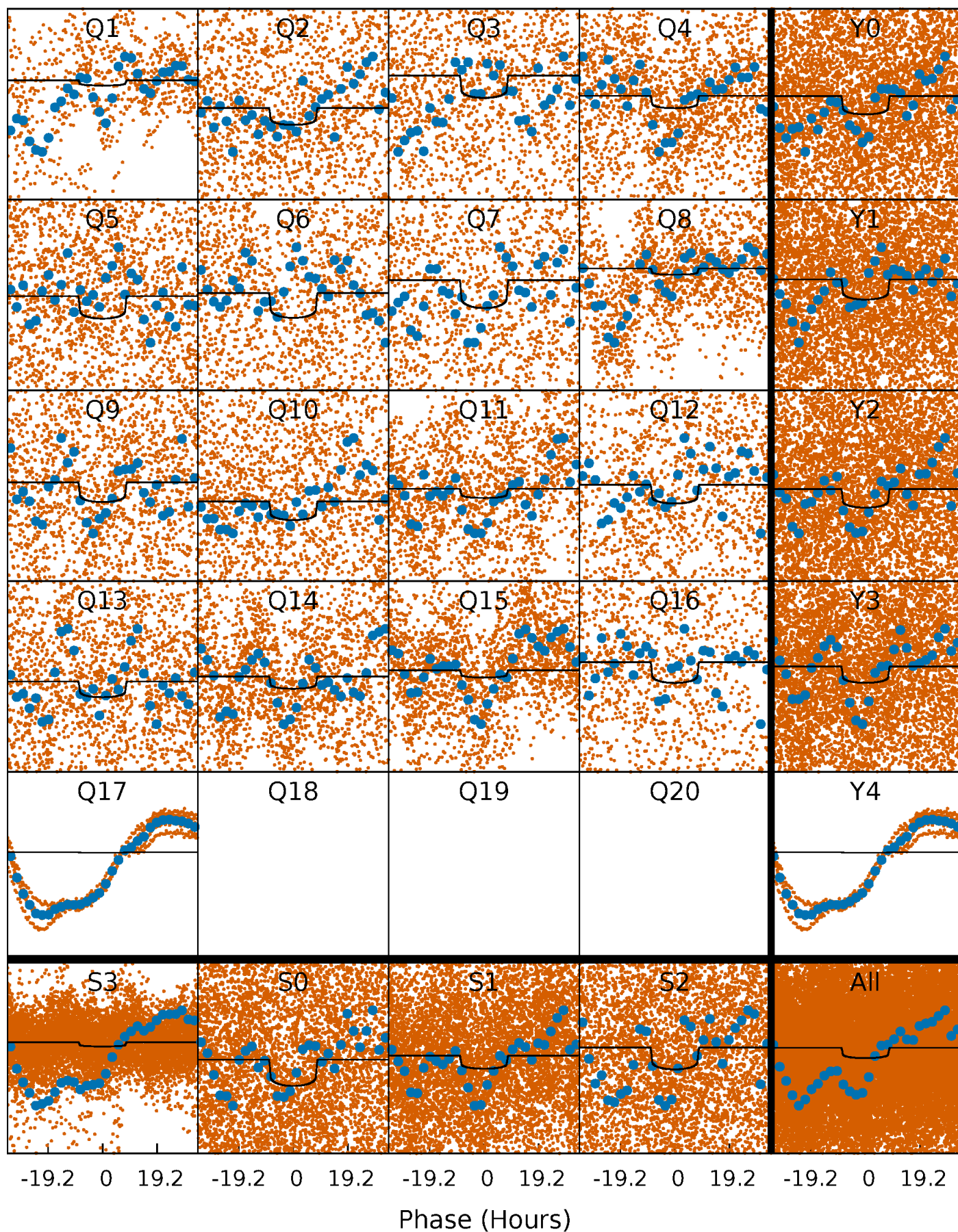
PDC Quarter-Phased Transit Curves

TCE 010195926-03 P= 5.684630 Days $T_0=133.934534$ (BKJD)



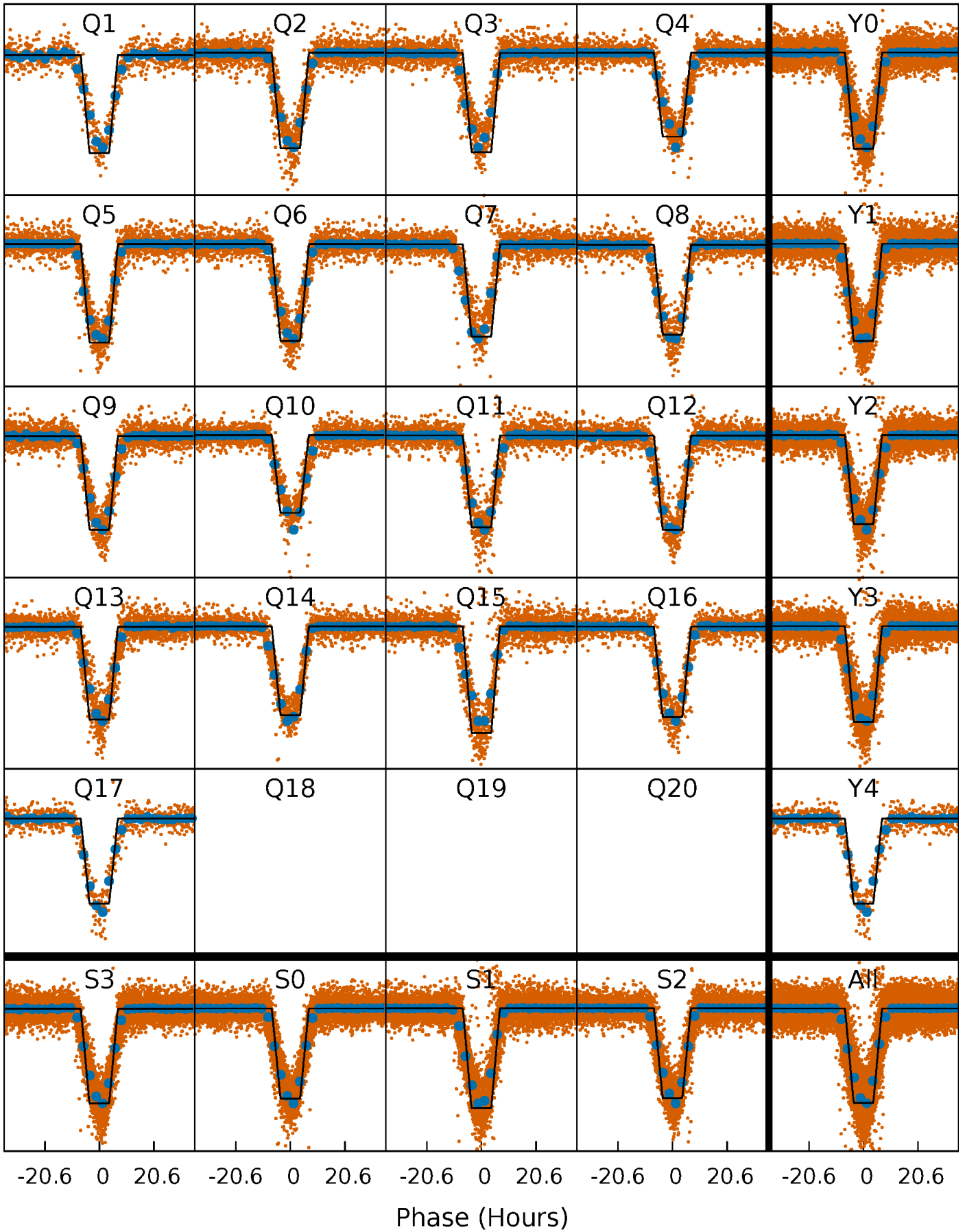
DV Quarter-Phased Transit Curves

TCE 010195926-03 P= 5.684630 Days $T_0=133.934534$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

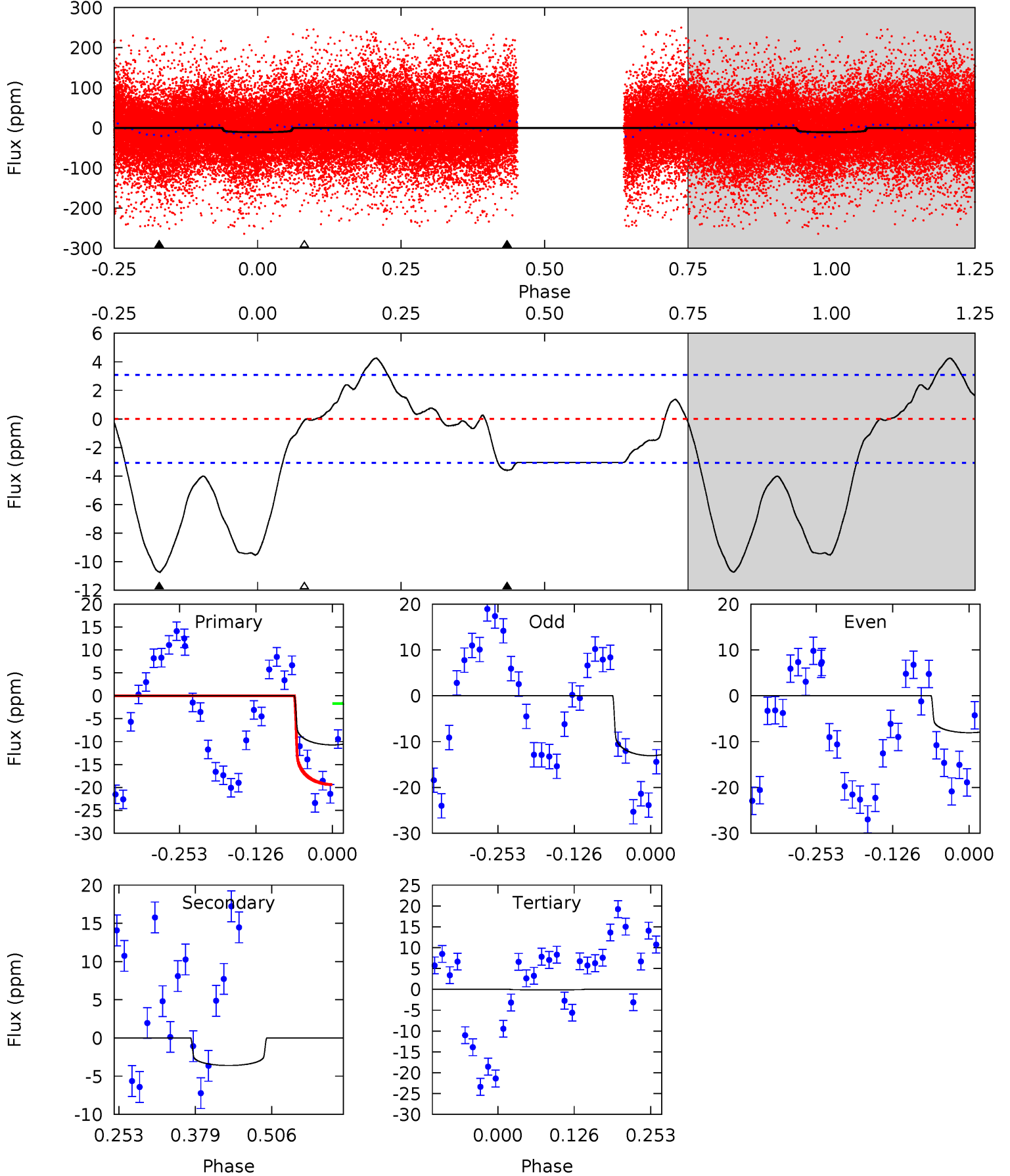
TCE 010195926-03 $P = 5.684715$ Days $T_0 = 133.883615$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-03, P = 5.684630 Days, E = 128.249904 Days

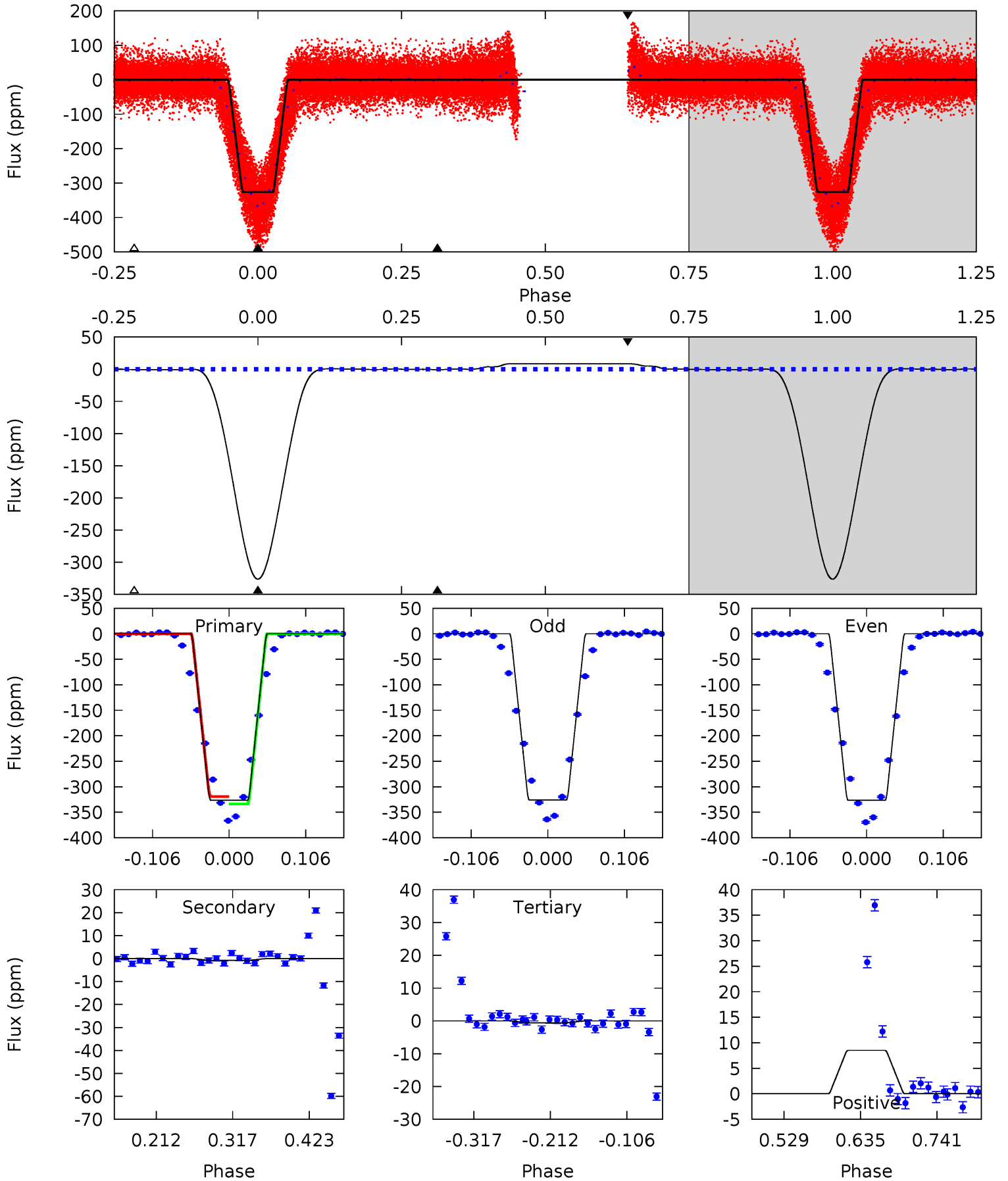
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
15.7	5.27	0.16	0	4.52	1.53	5.89	15.5	15.7	5.11	5.27	3.71	2.72	0.28	12.7



Alt Model-Shift Uniqueness Test

010195926-03, P = 5.684715 Days, E = 128.198900 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
785.5	1.87	1.38	20.5	4.55	1.62	6.81	784.1	765.0	0.49	-18.6	0.63	1.06	0.03	20.1



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-4 ± 1	$1.17^{+0.20}_{-0.31}$	3036^{+219}_{-393}	5569^{+437}_{-430}	$8.419^{+6.334}_{-2.592}$
Alt.	-1 ± 0	$6.94^{+0.55}_{-1.95}$	3055^{+215}_{-401}	-3011^{+283}_{-131}	$0.056^{+0.045}_{-0.029}$

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 $A_{obs} \gg 1.0$

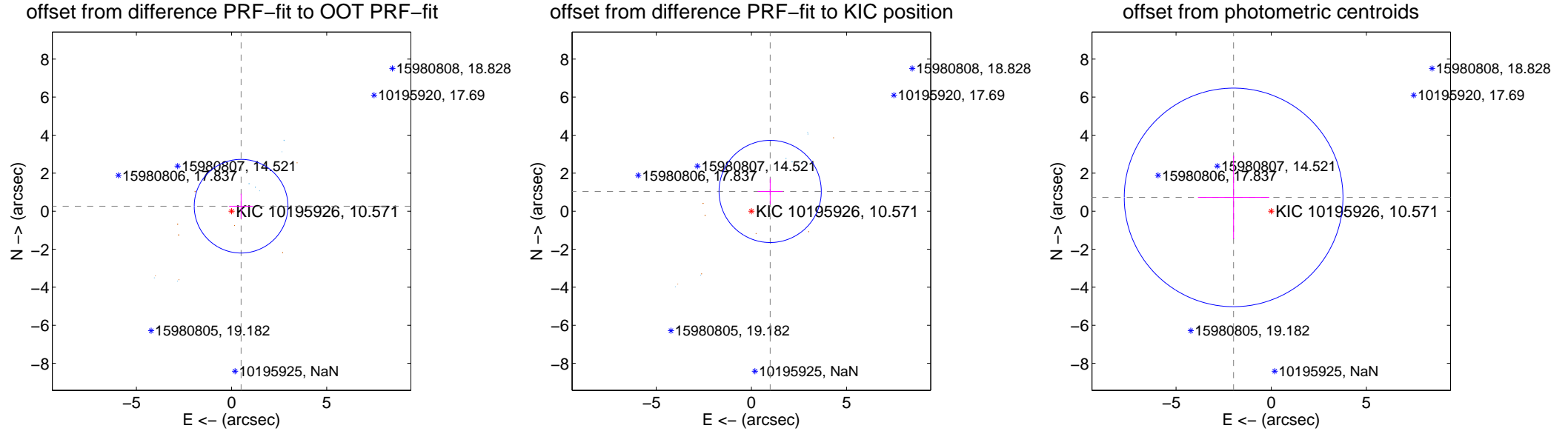
DV Centroid Data

Supplemental centroid analysis for 010195926-03. **Kepler magnitude: 10.57.** Transit SNR 6.33

There are 9 quarters with good PRF difference image offsets

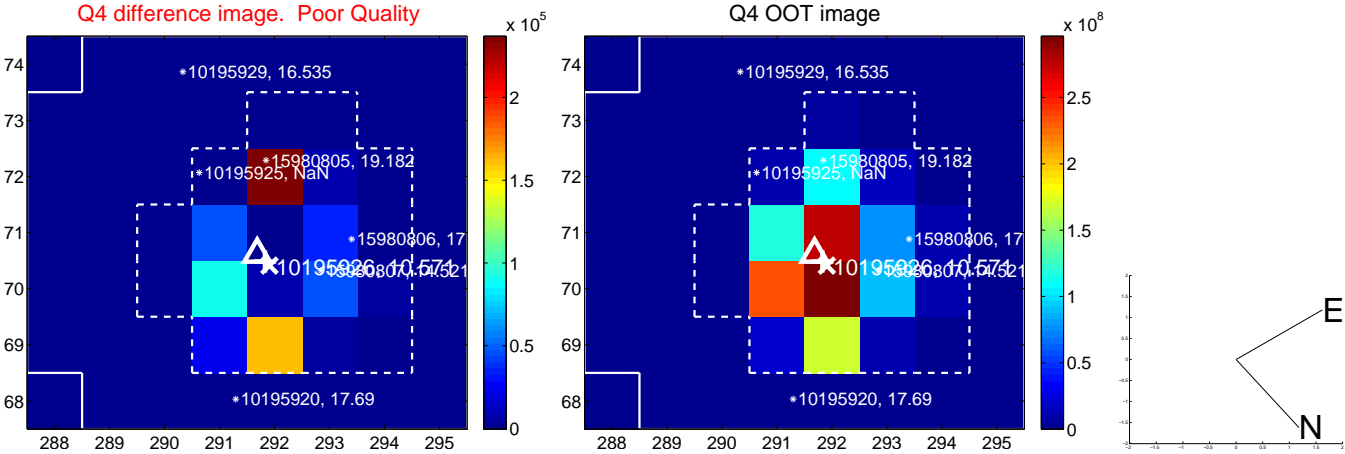
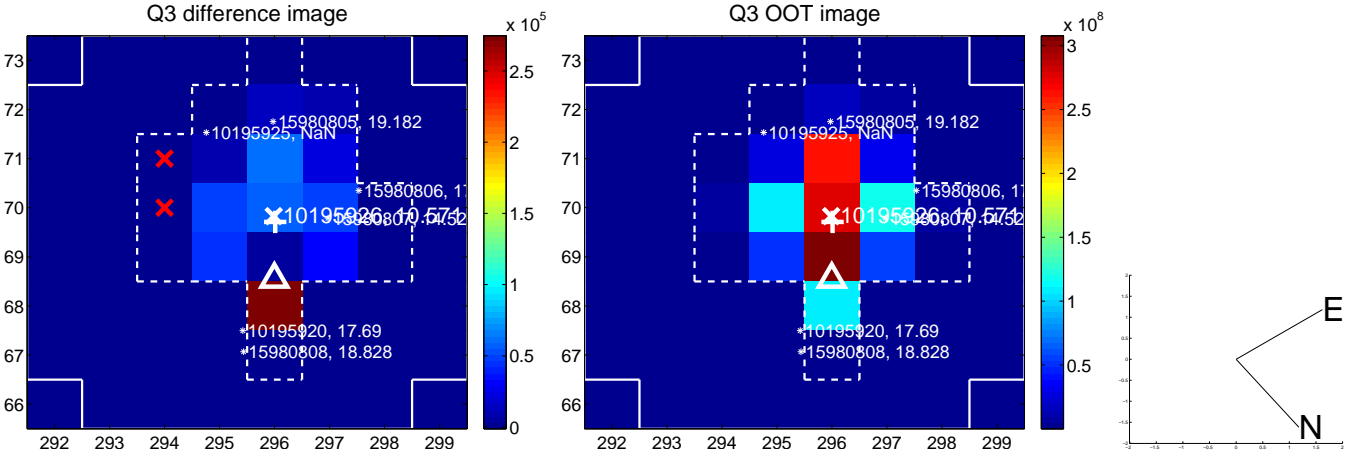
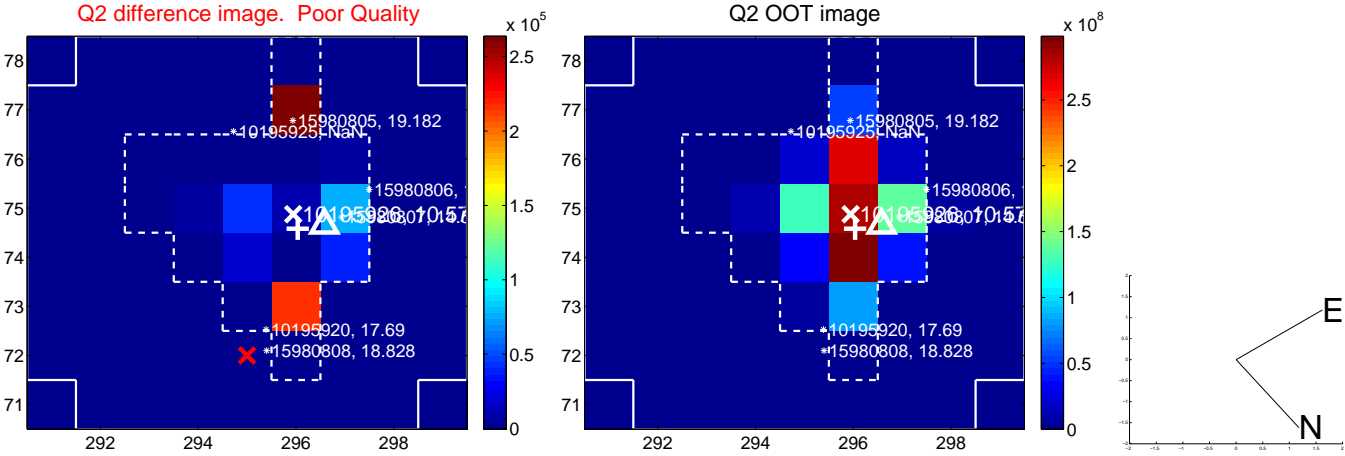
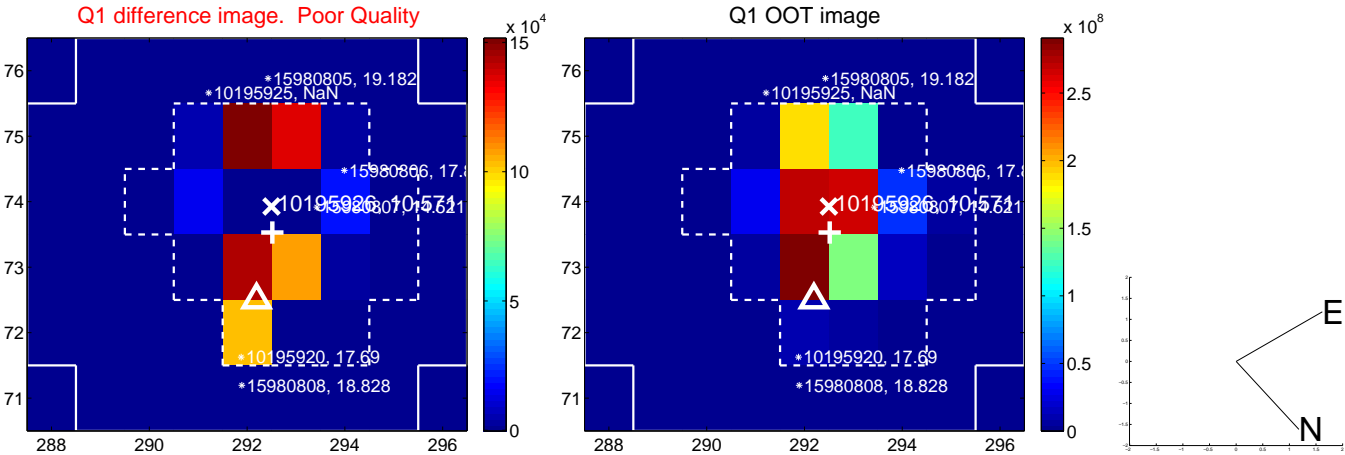
The direct PRF centroid is offset from the target star catalog position by about 1.61 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.566 ± 0.821	0.69	-0.501 ± 0.628	0.262 ± 0.660
PRF-fit source offset from KIC position	1.433 ± 0.896	1.60	-0.988 ± 0.655	1.039 ± 0.673
photometric centroid source offset	2.11 ± 1.92	1.10	1.98 ± 1.88	0.73 ± 2.19

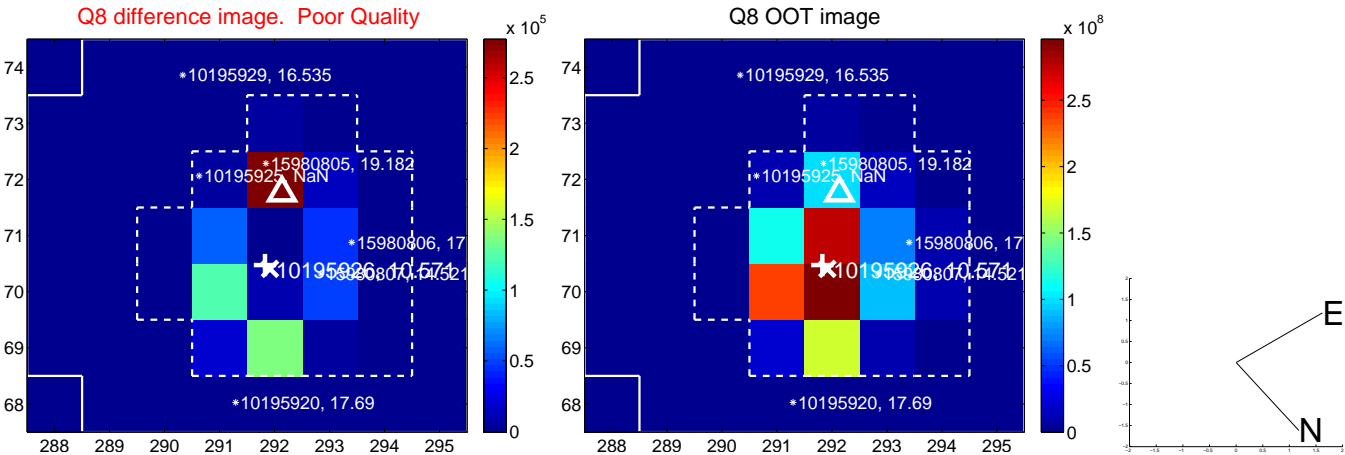
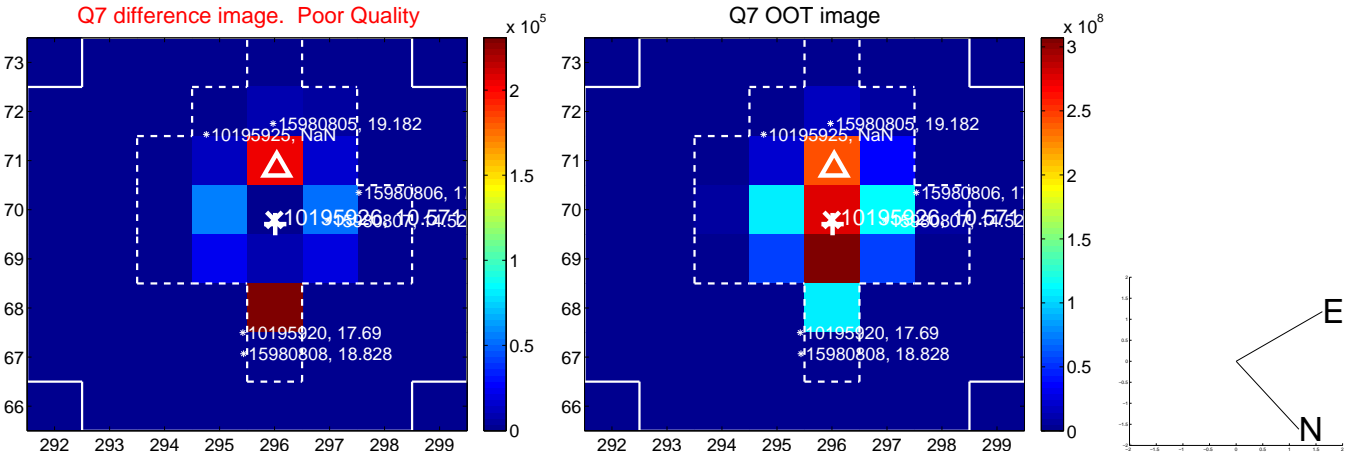
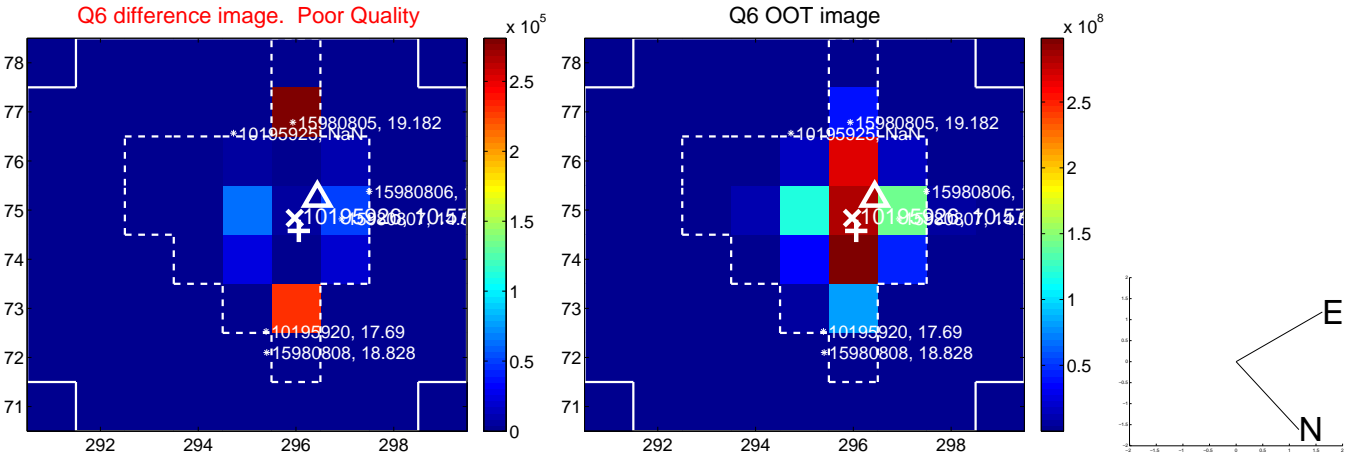
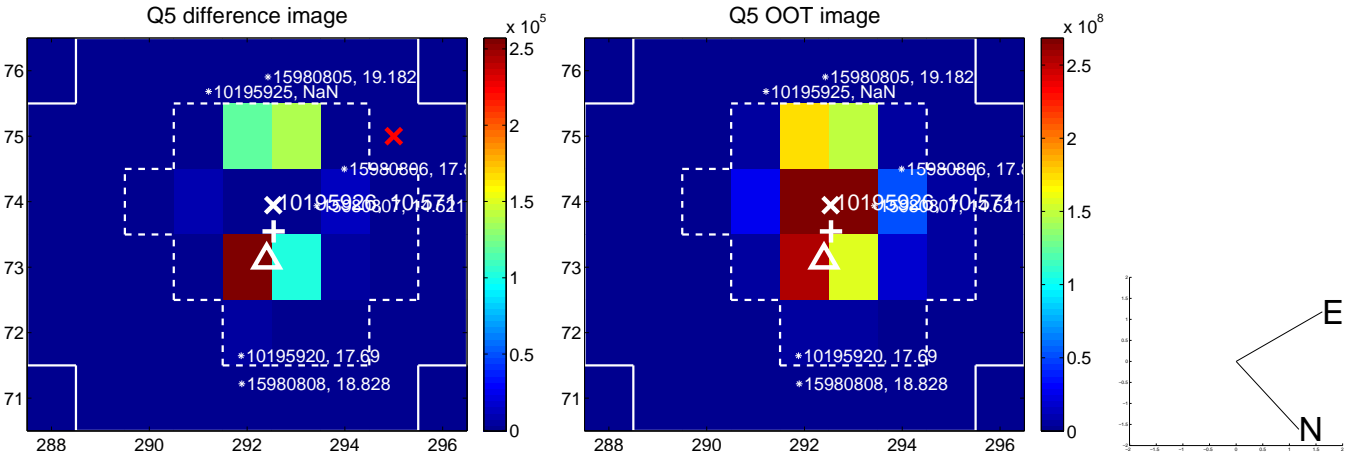


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

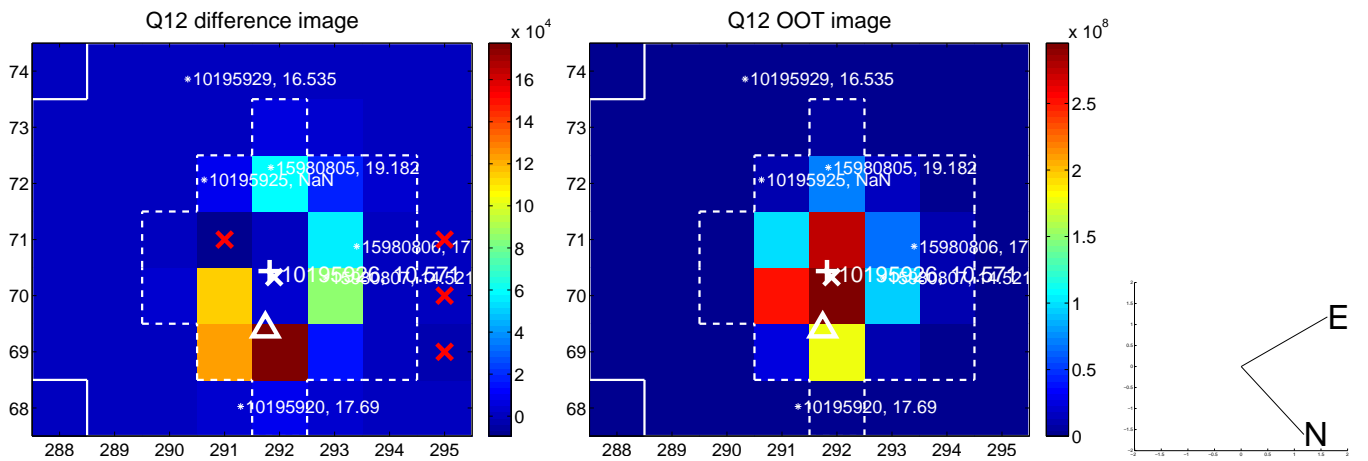
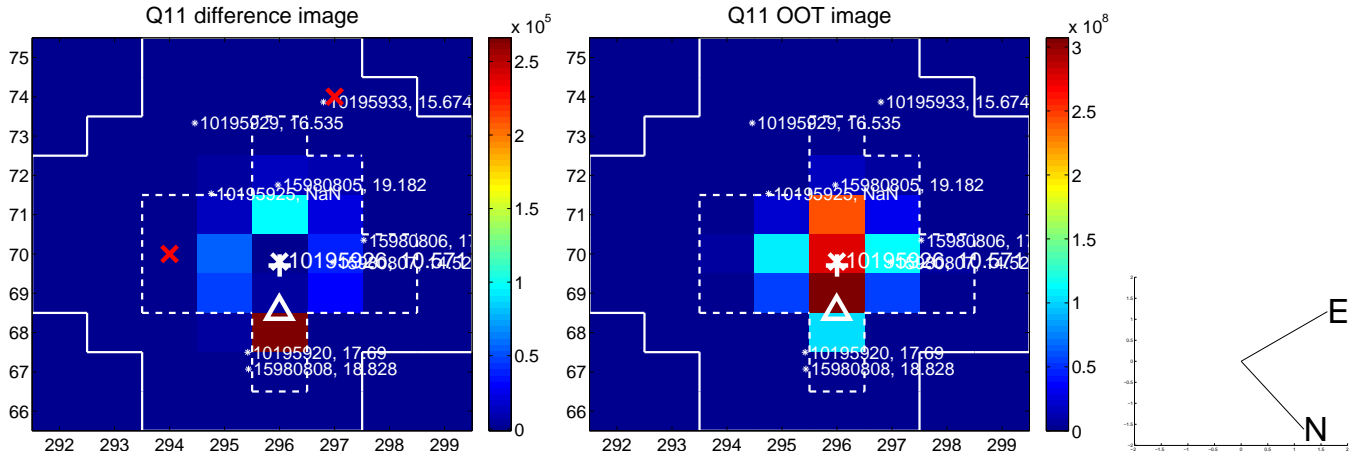
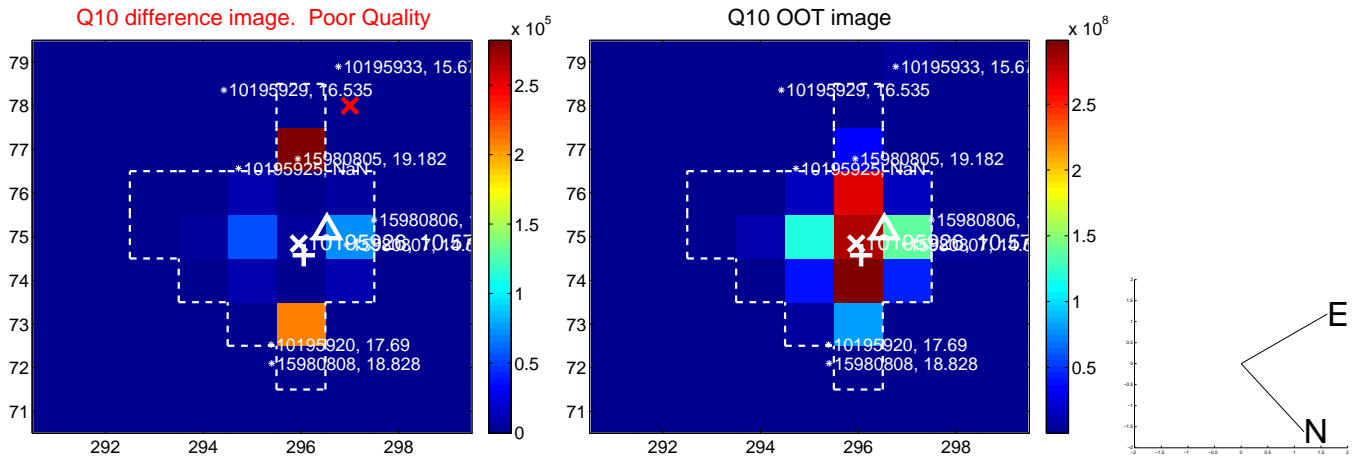
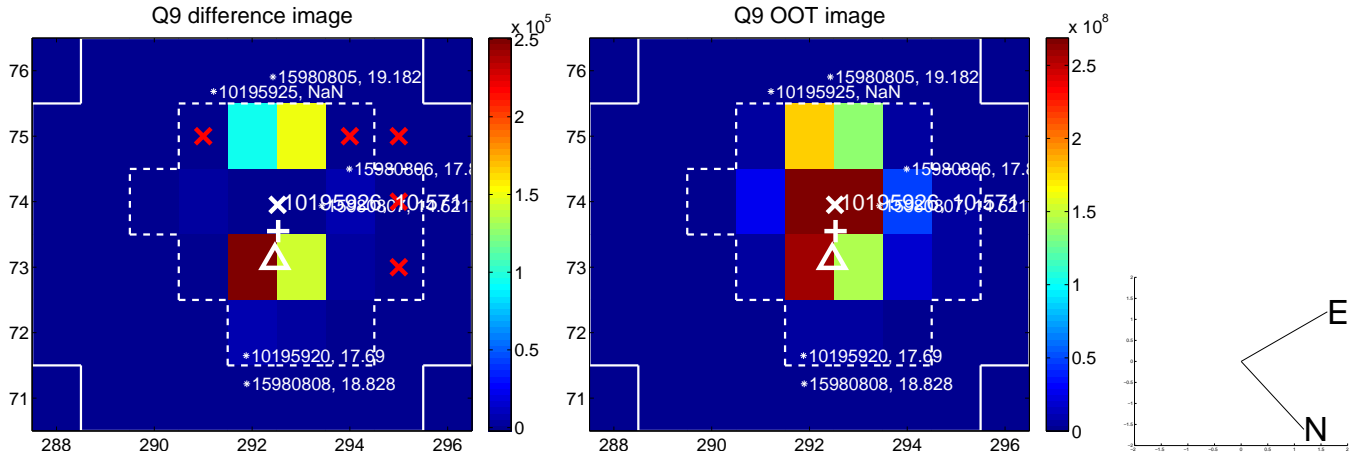
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



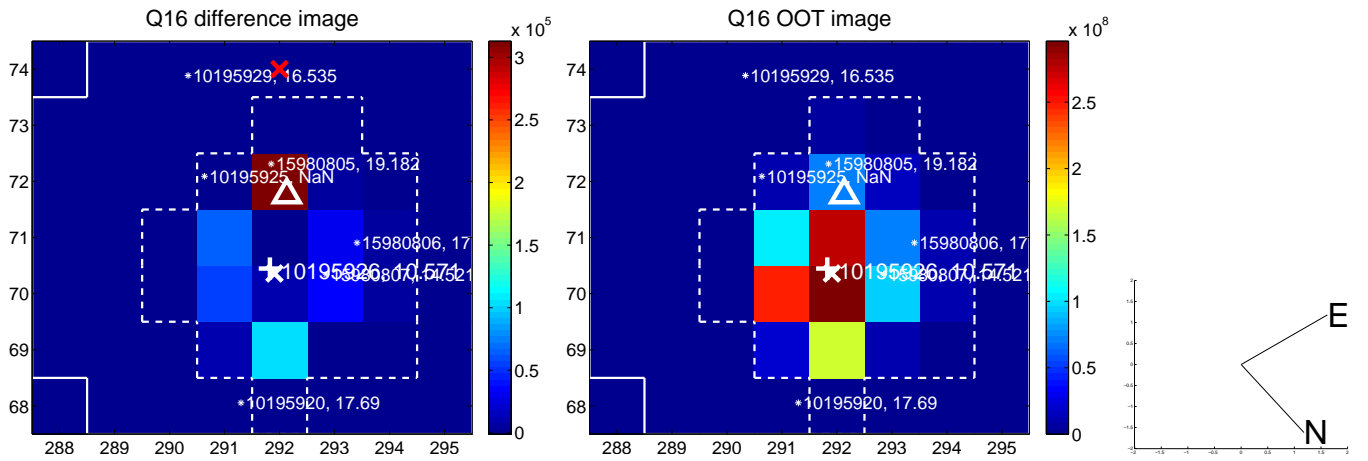
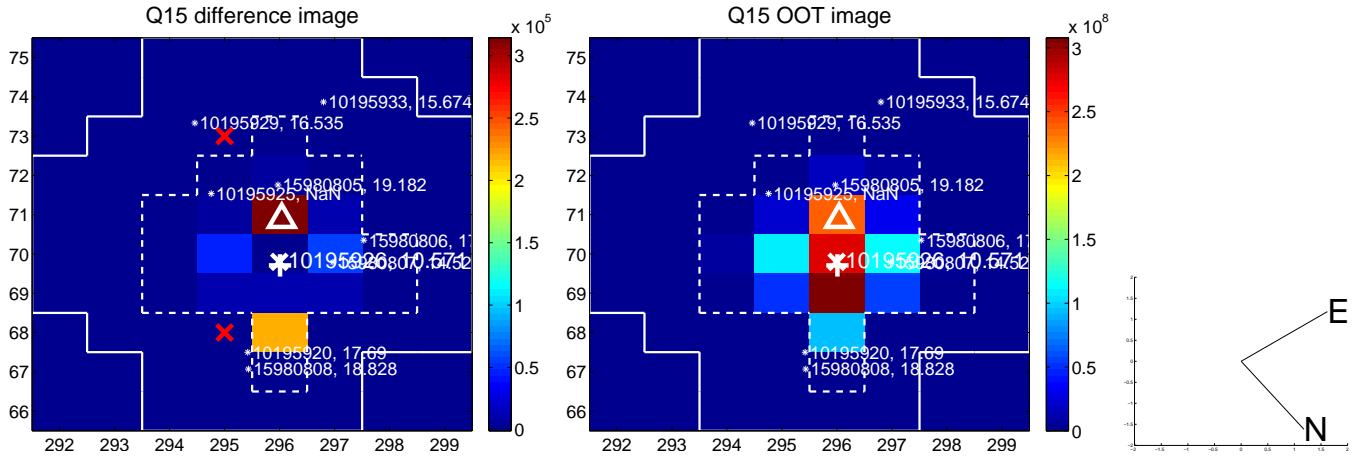
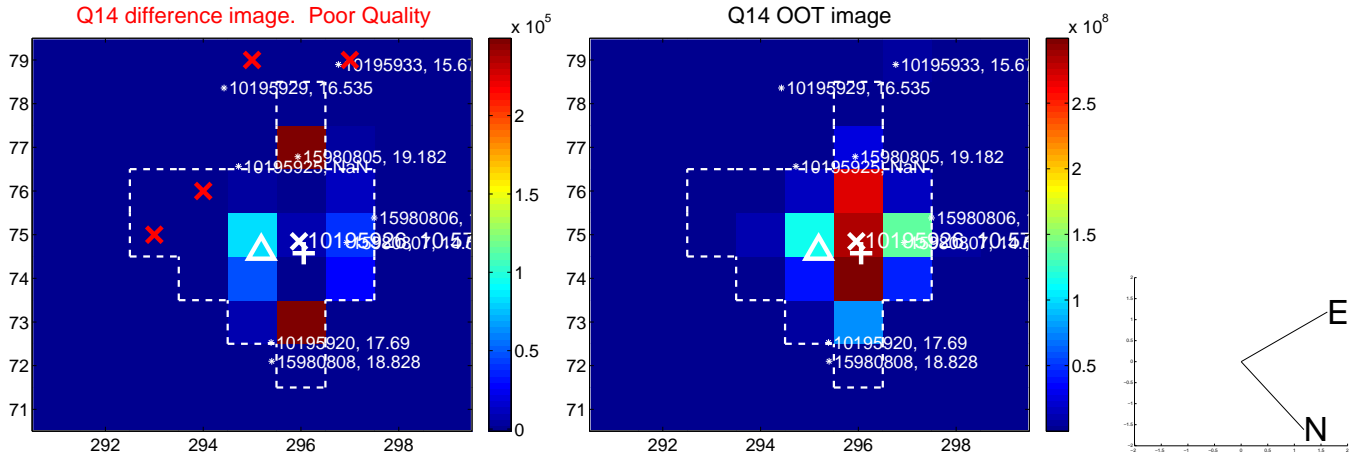
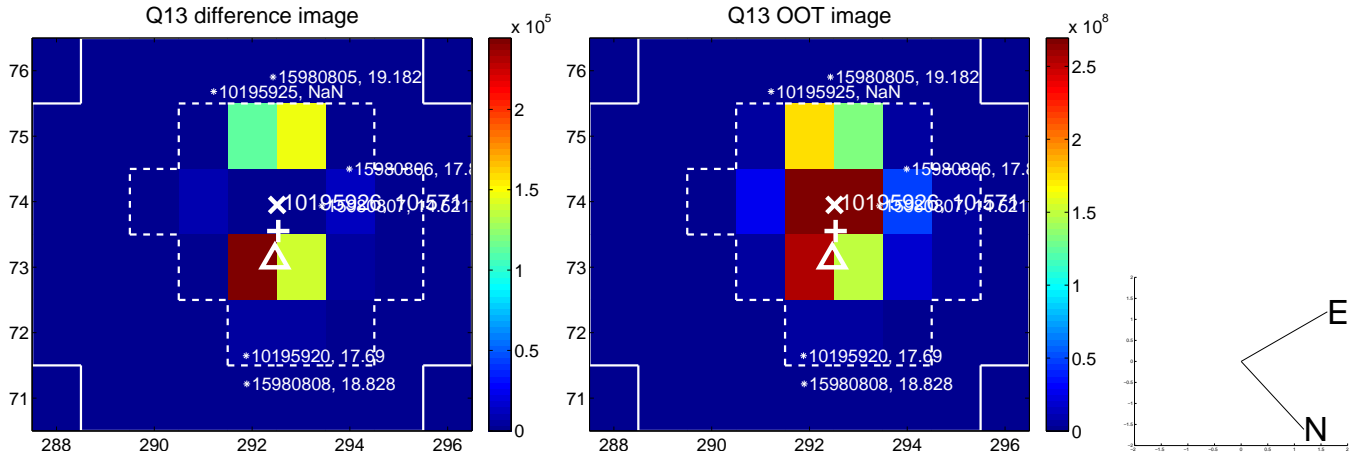
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



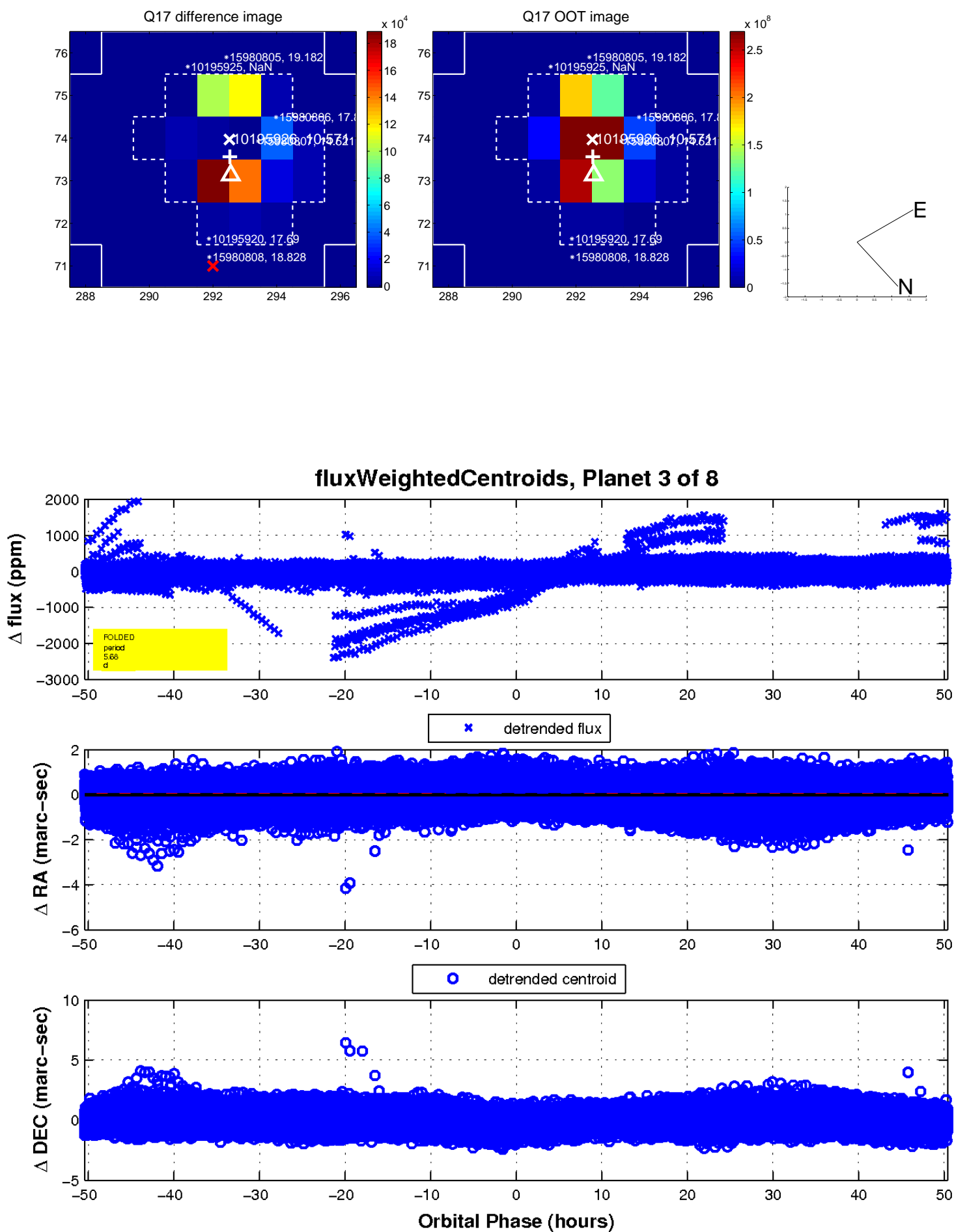
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



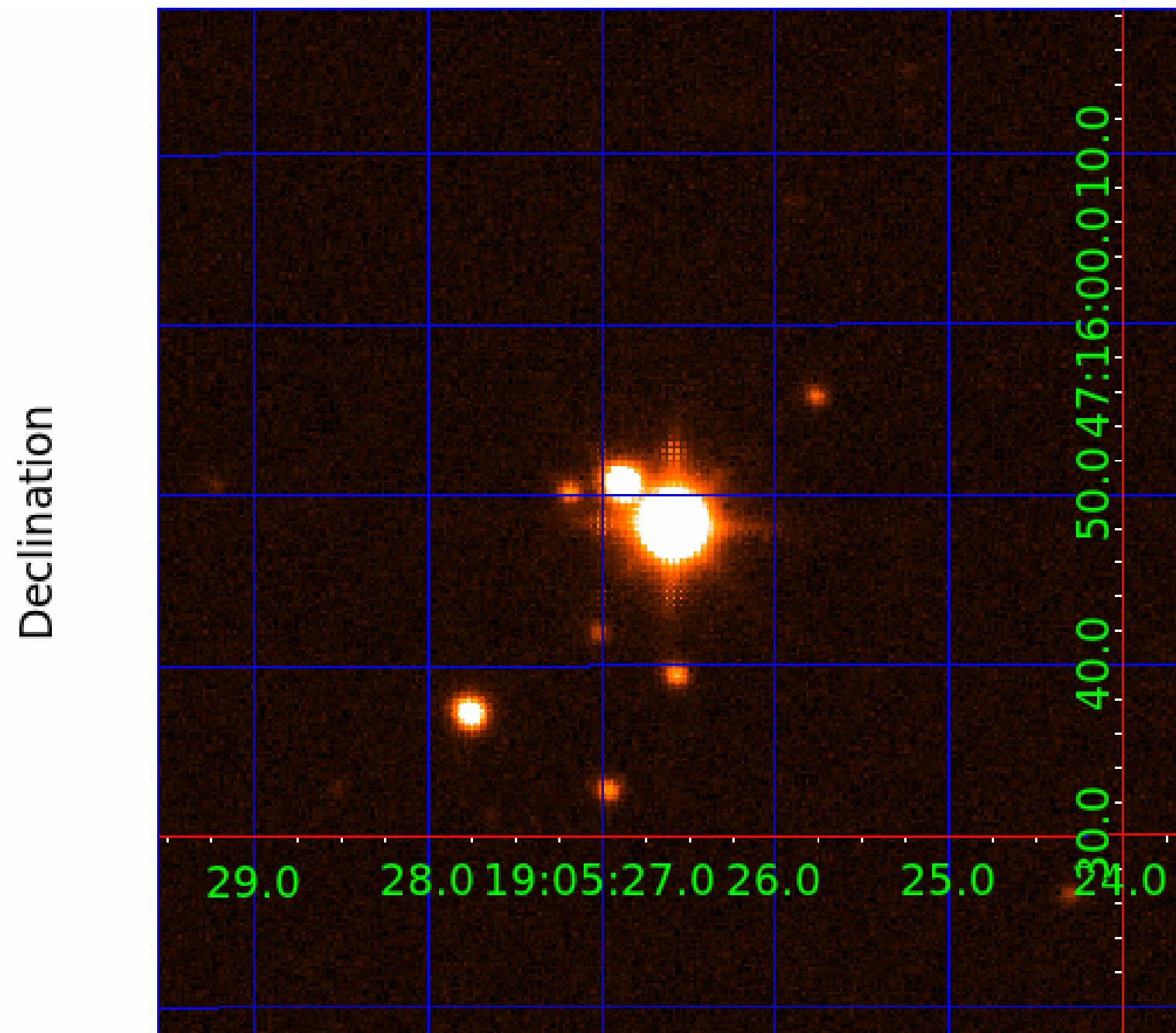
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

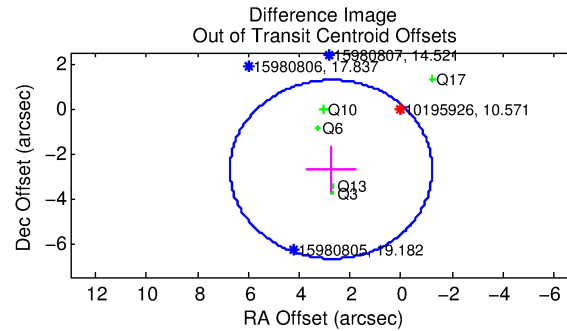
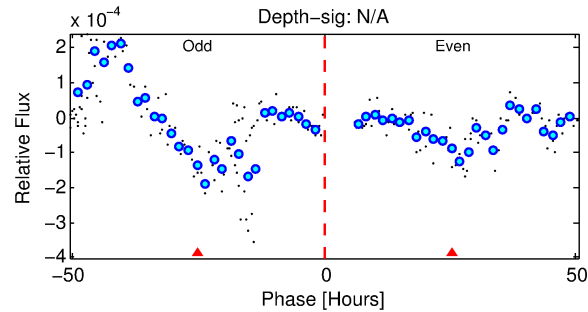
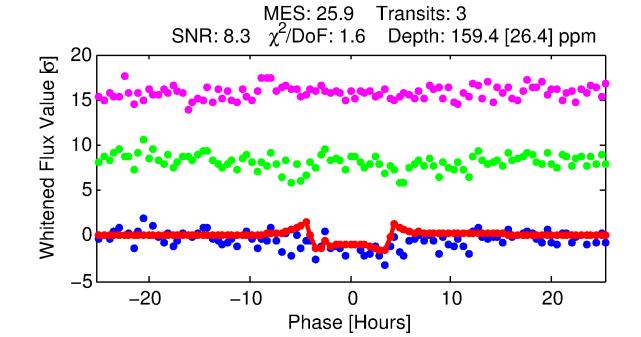
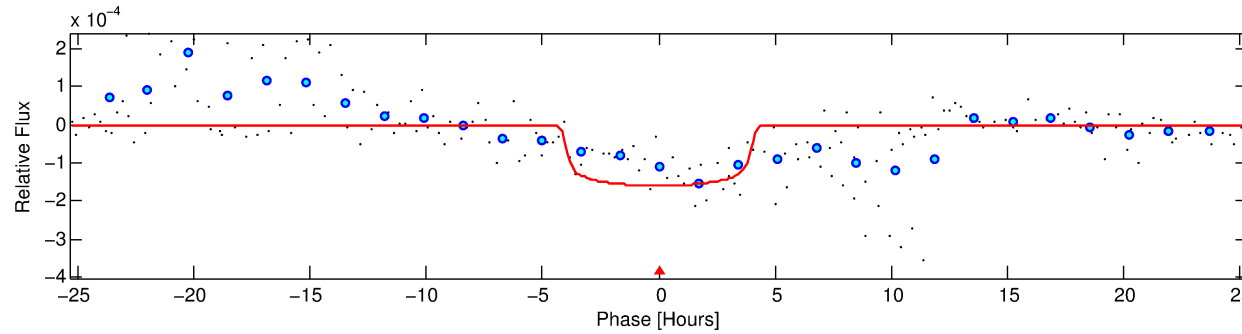
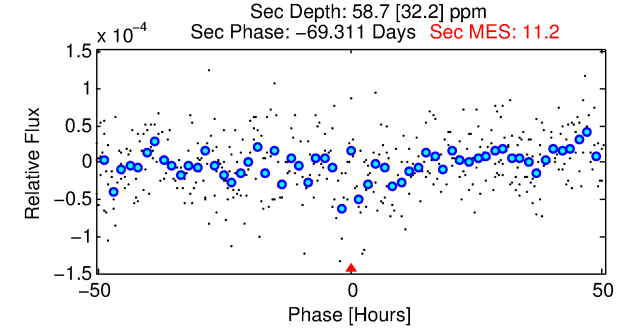
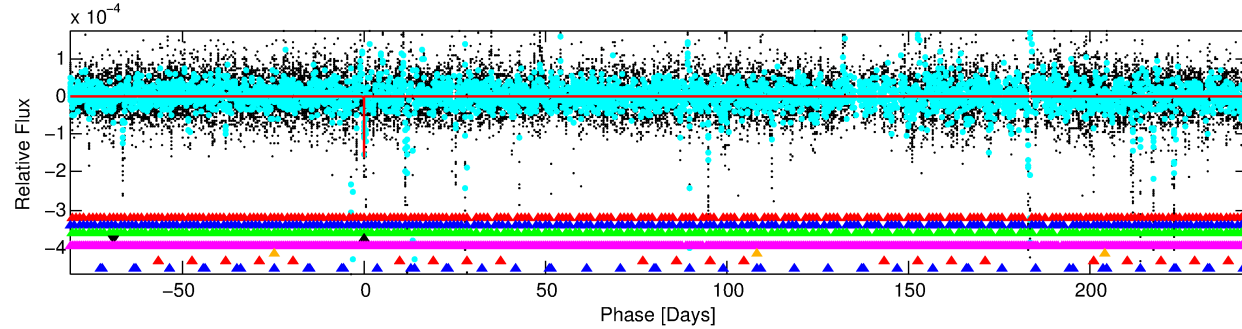
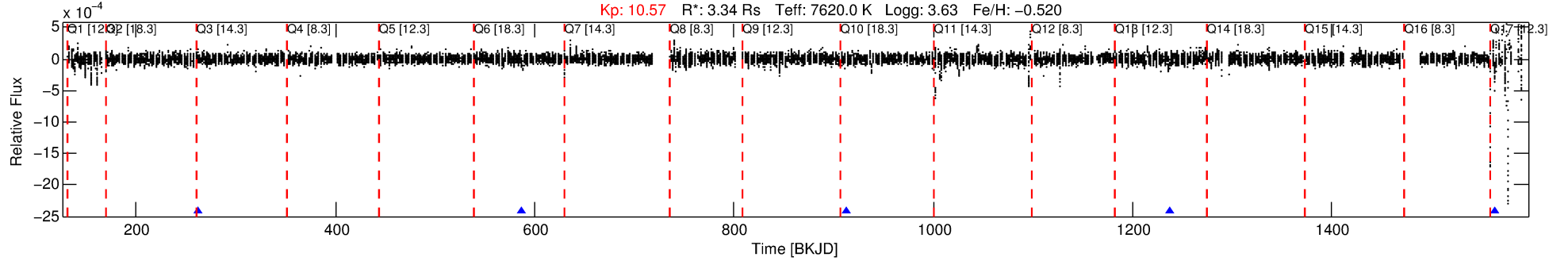
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-04

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 4 of 8 Period: 325.115 d



DV Fit Results:

Period = 325.11452 [0.00526] d
Epoch = 262.3602 [0.0151] BKJD
 $R_p/R^* = 0.0133$ [0.0029]
 $a/R^* = 145.53$ [170.47]
 $b = 0.88$ [0.29]
 $\text{Seff} = 27.11$ [25.72]
 $T_{\text{eq}} = 582$ [138] K
 $R_p = 4.84$ [2.83] R_e
 $a = 1.1146$ [0.6269] AU
 $A_g = 1712.05$ [1999.64] [0.86σ]
 $T_{\text{eff}} = 5786$ [1043] K [4.95σ]

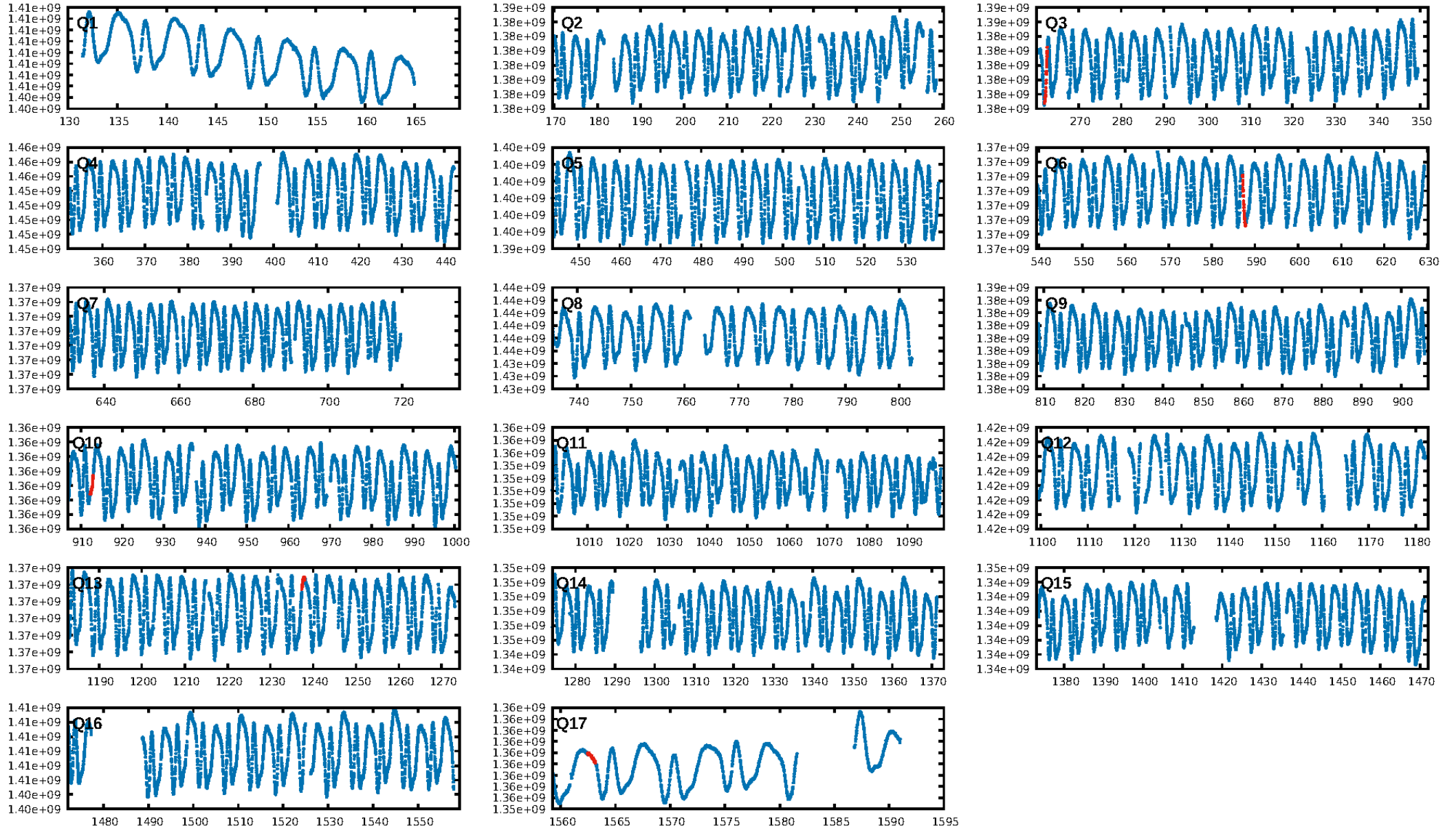
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [673.64σ]
LongPeriod-sig: 100.0% [388.14σ]
ModelChiSquare2-sig: 0.1%
ModelChiSquareGof-sig: 99.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: -0.2675
Centroid-sig: N/A
Centroid-so: 1.291 arcsec [1.60σ]
OotOffset-rm: 3.855 arcsec [2.91σ]
KicOffset-rm: 3.004 arcsec [3.44σ]
OotOffset-st: 2/1/0/2 [5]
KicOffset-st: 2/1/0/2 [5]
DiffImageQuality-fgm: 0.00 [0/5]
DiffImageOverlap-fno: 0.00 [0/5]

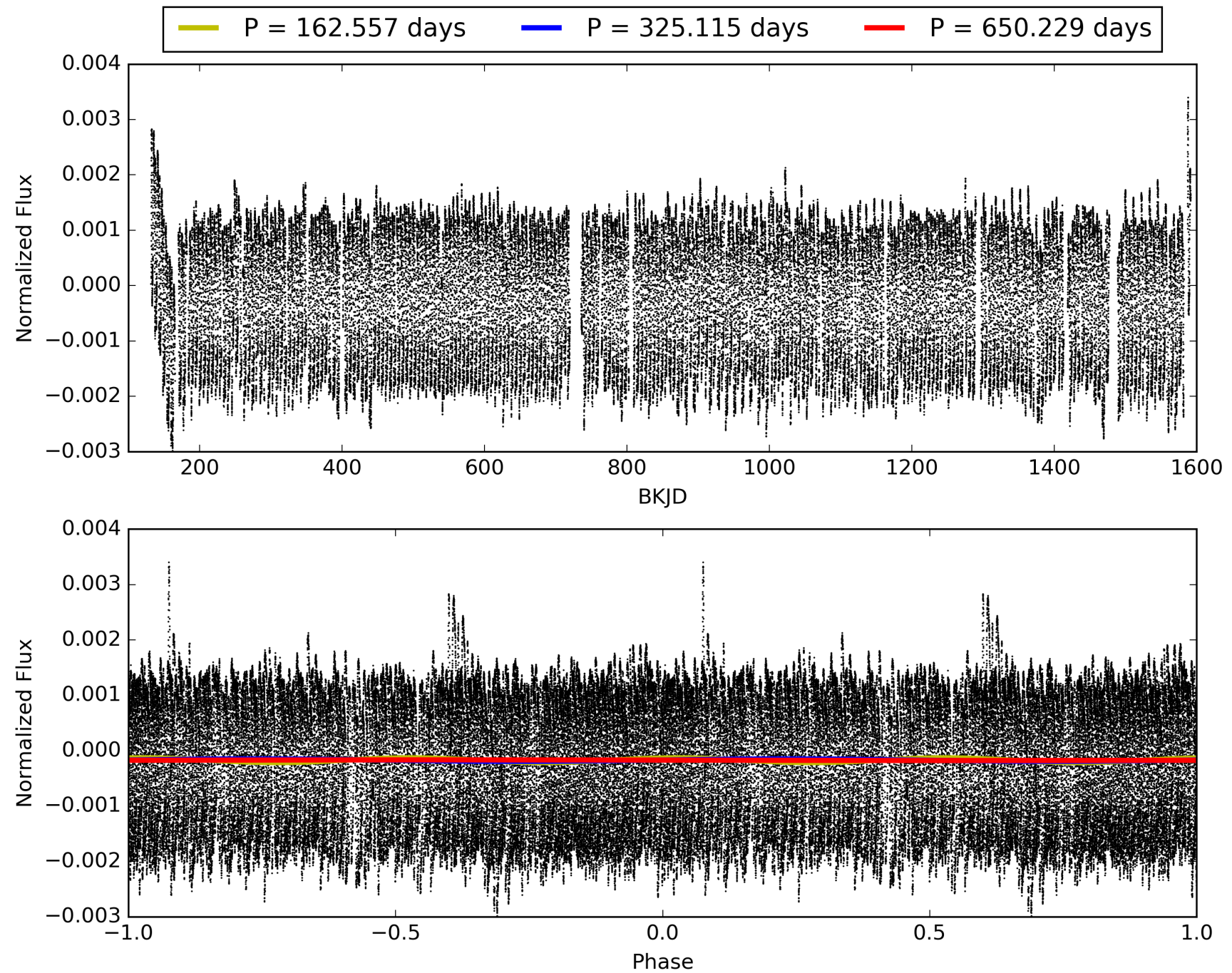
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:10 Z

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

TCE 010195926-04, PDC Light Curves

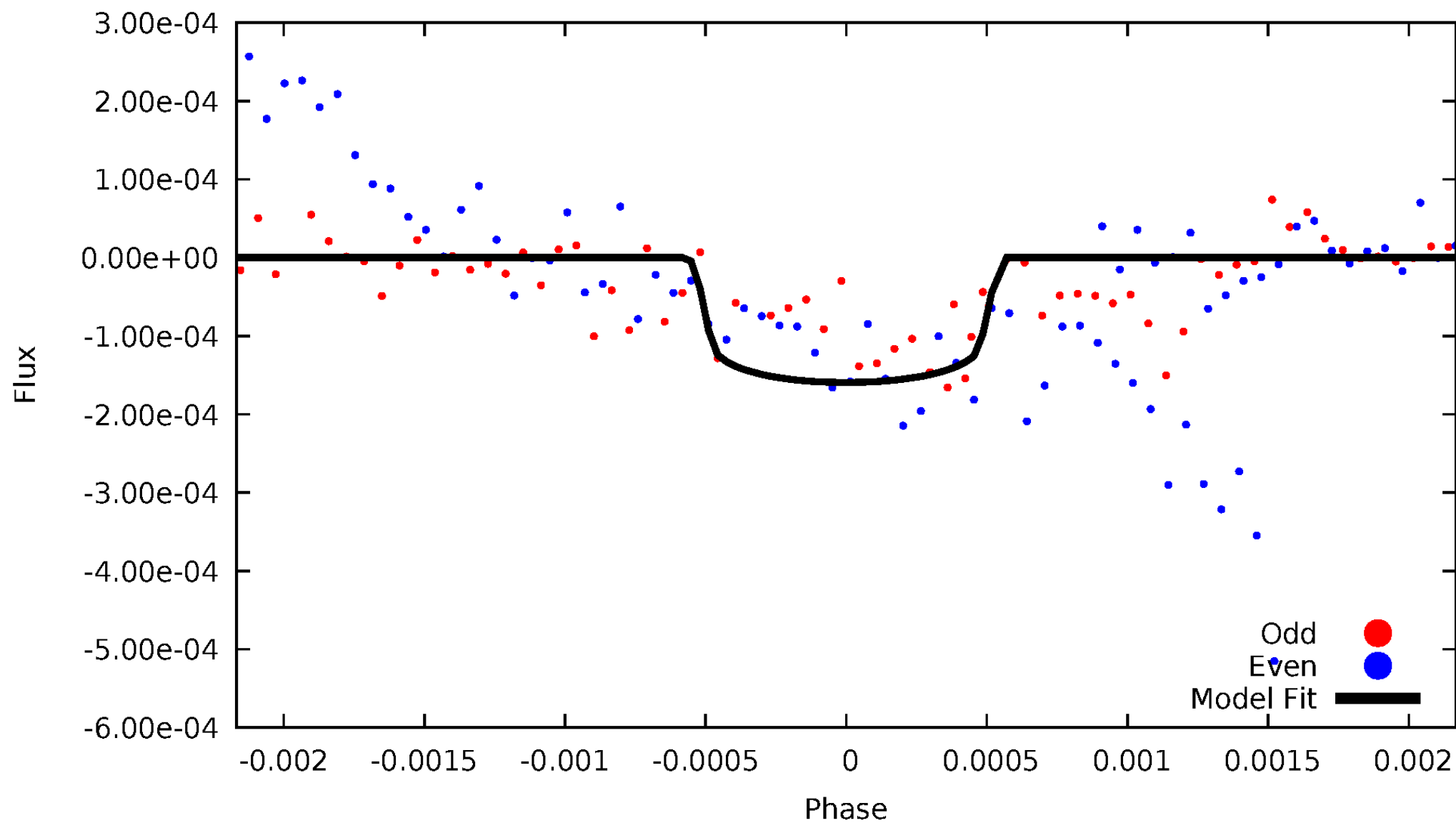


TCE 010195926-04



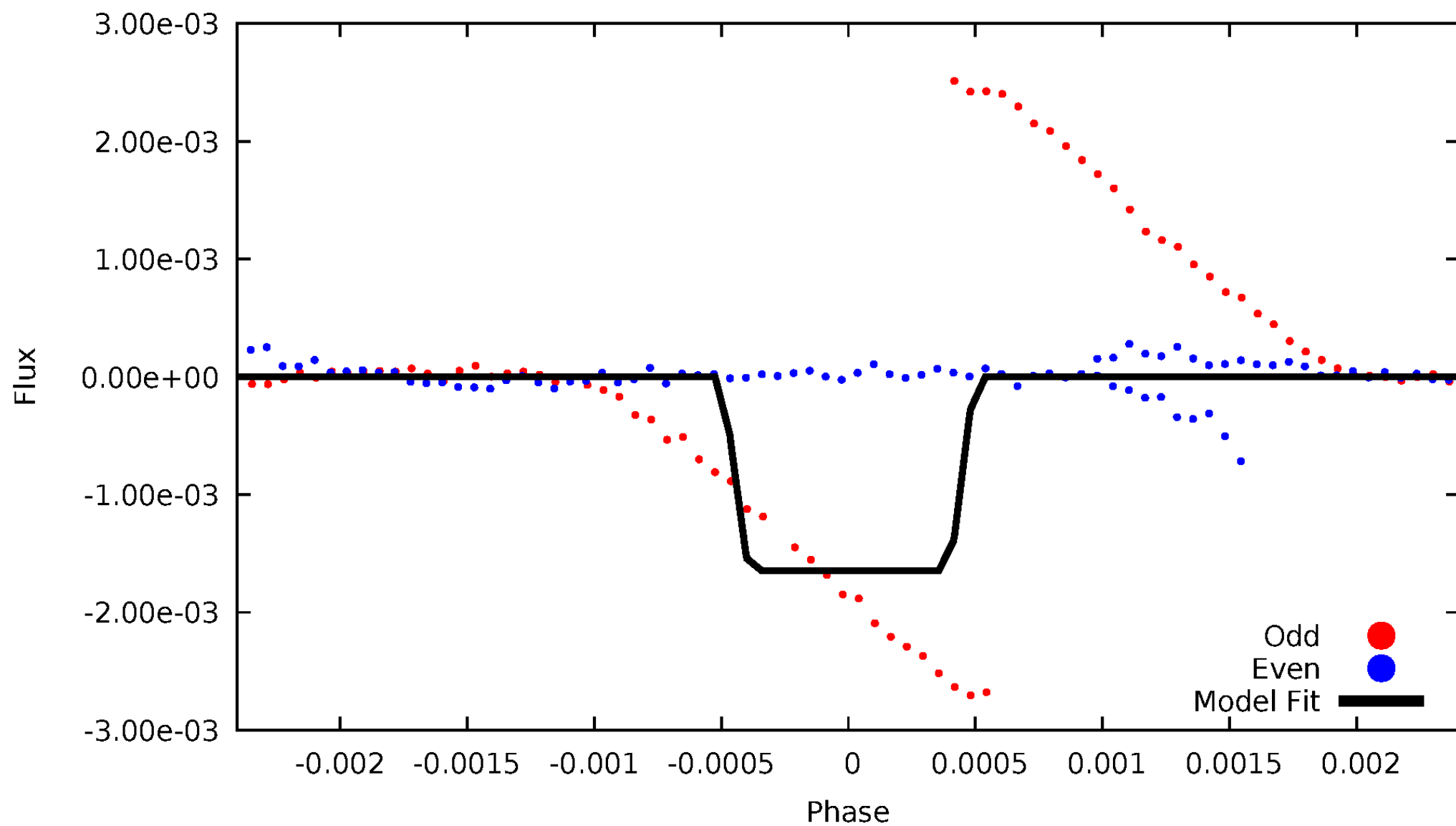
DV Odd/Even

TCE 010195926-04



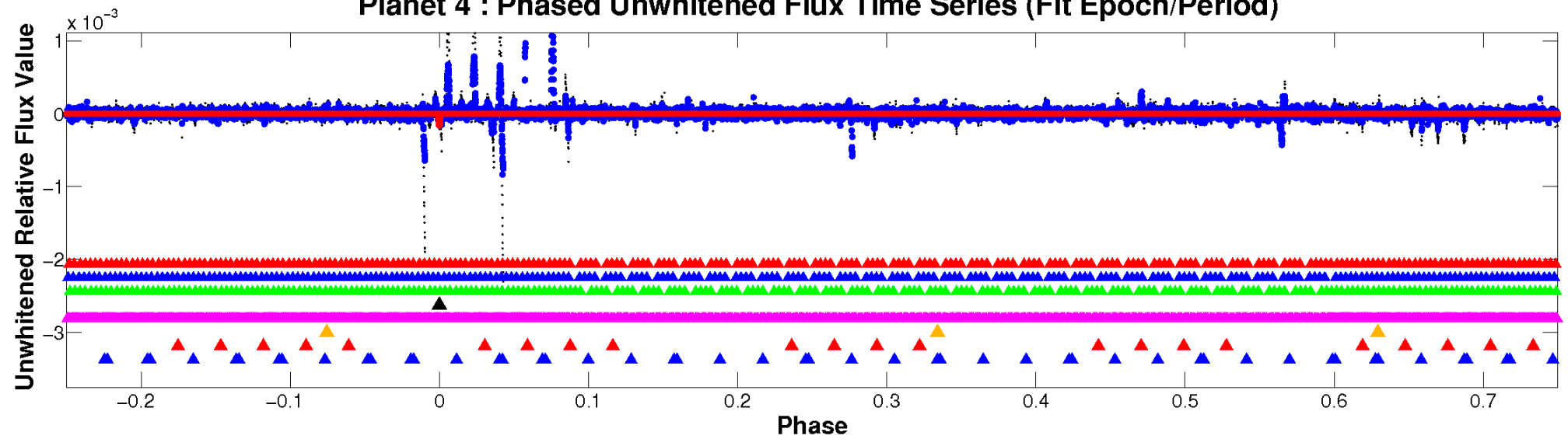
ALT Odd/Even

TCE 010195926-04

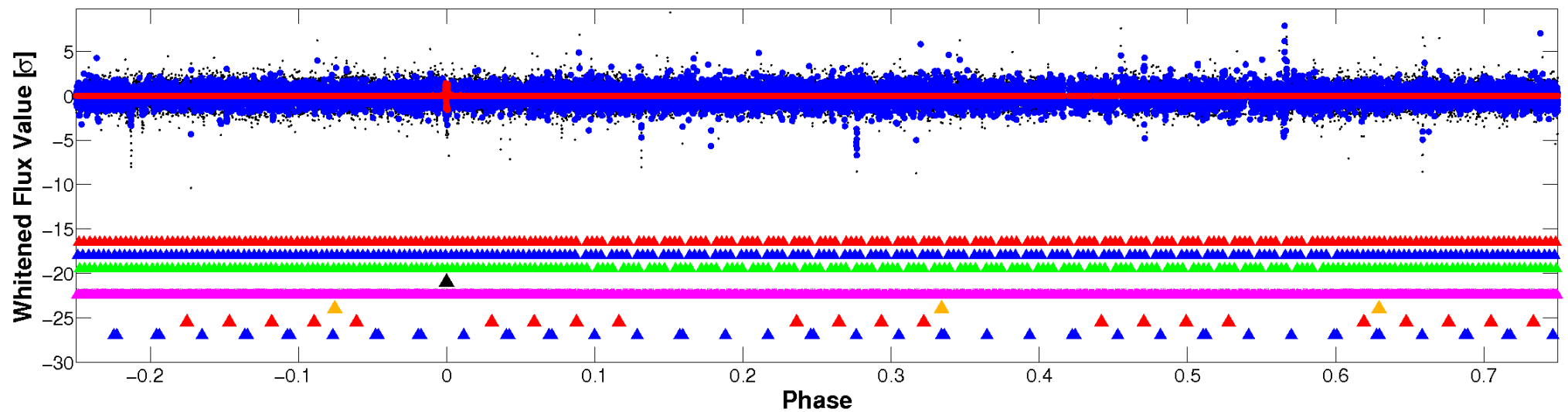


Non-Whitened Vs. Whitened Light Curve

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

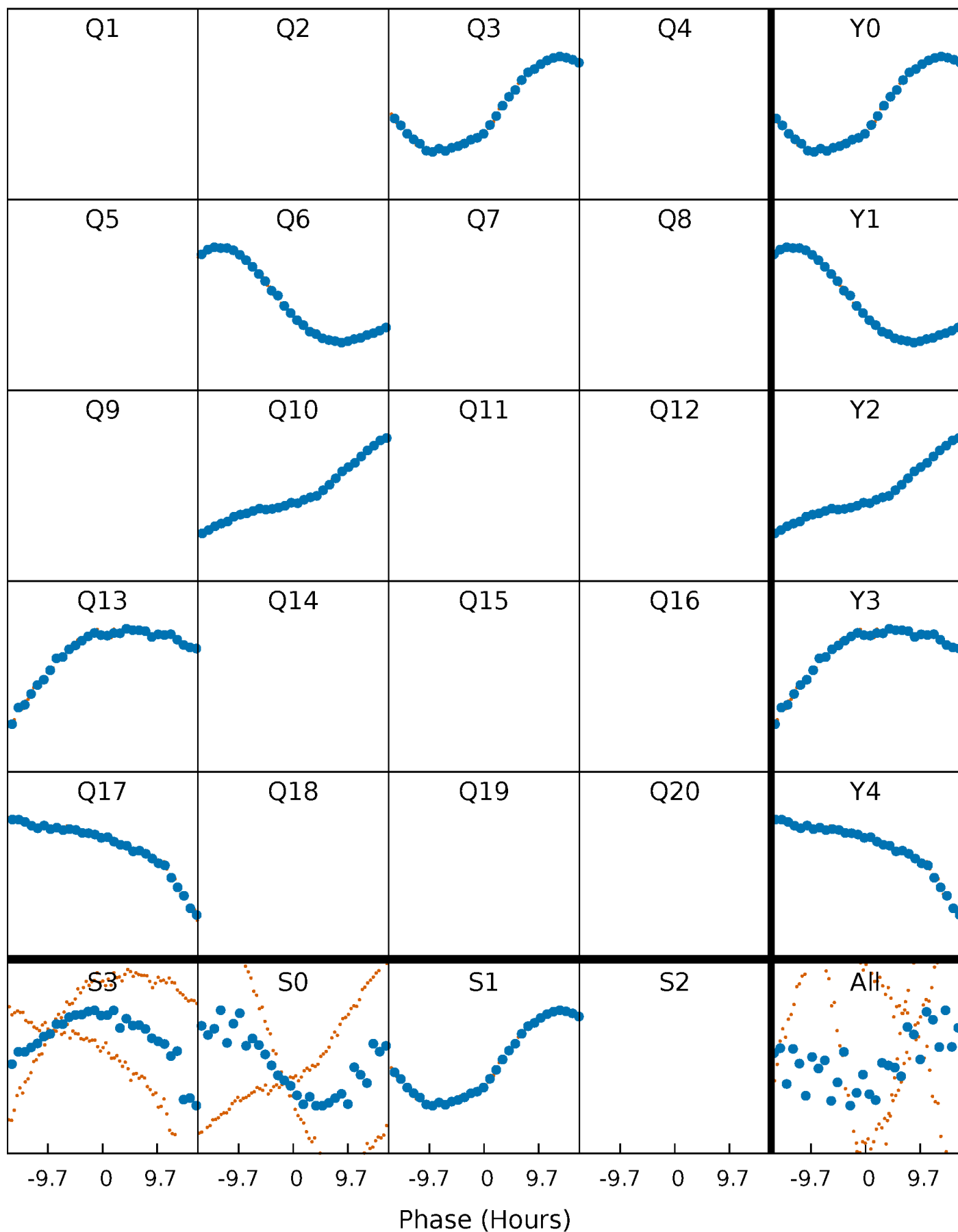


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



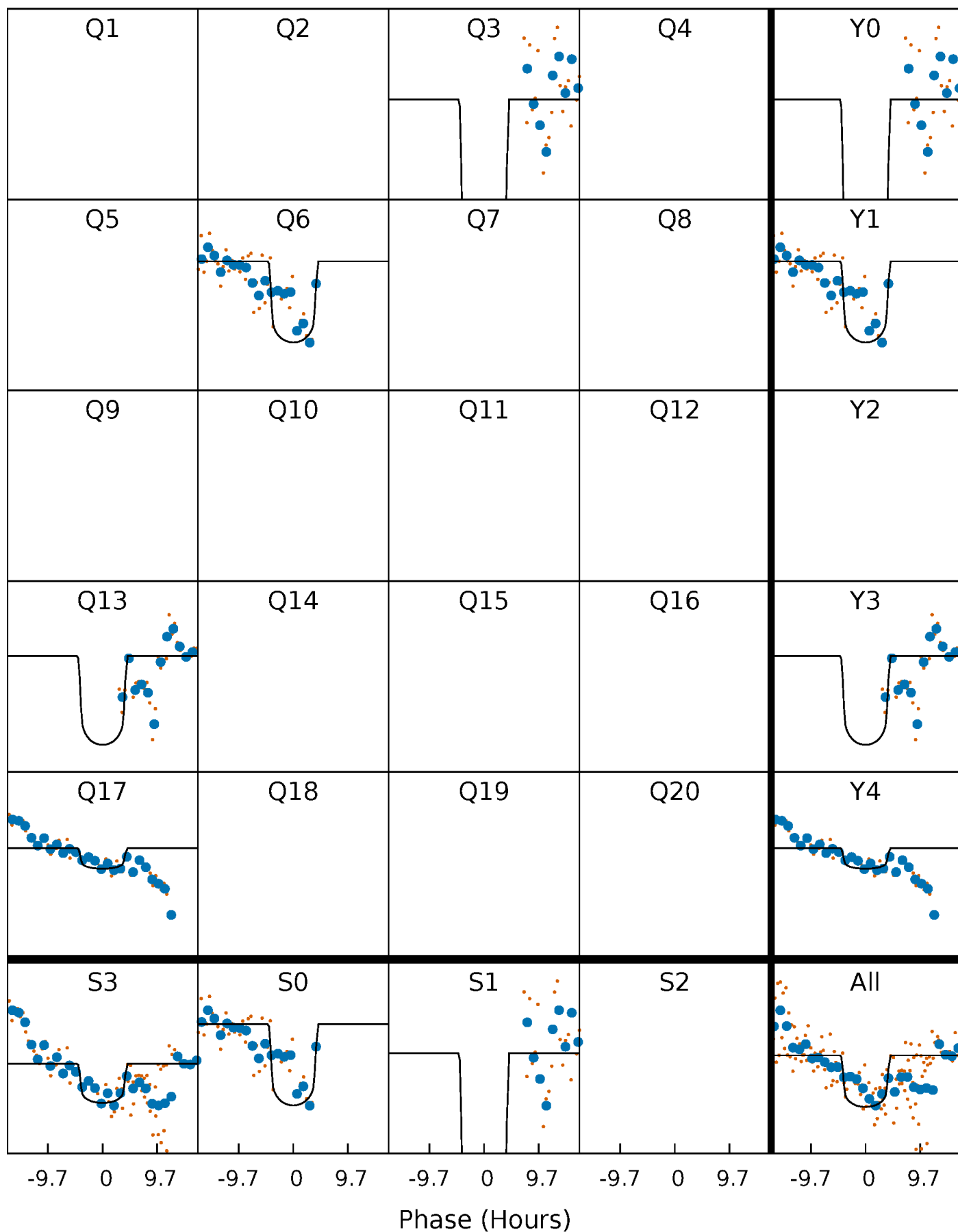
PDC Quarter-Phased Transit Curves

TCE 010195926-04 P=325.114519 Days $T_0=262.360222$ (BKJD)



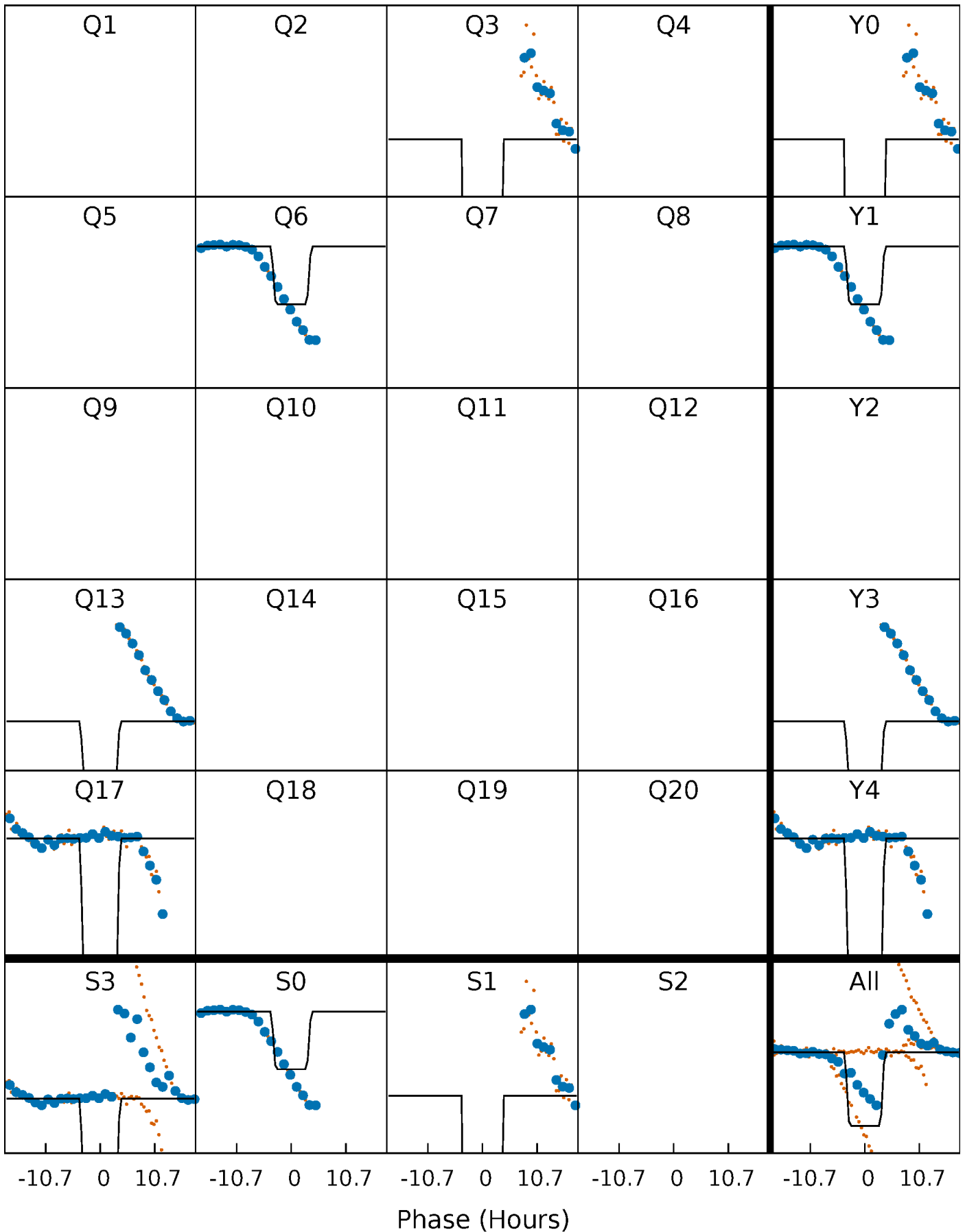
DV Quarter-Phased Transit Curves

TCE 010195926-04 $P=325.114519$ Days $T_0=262.360222$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

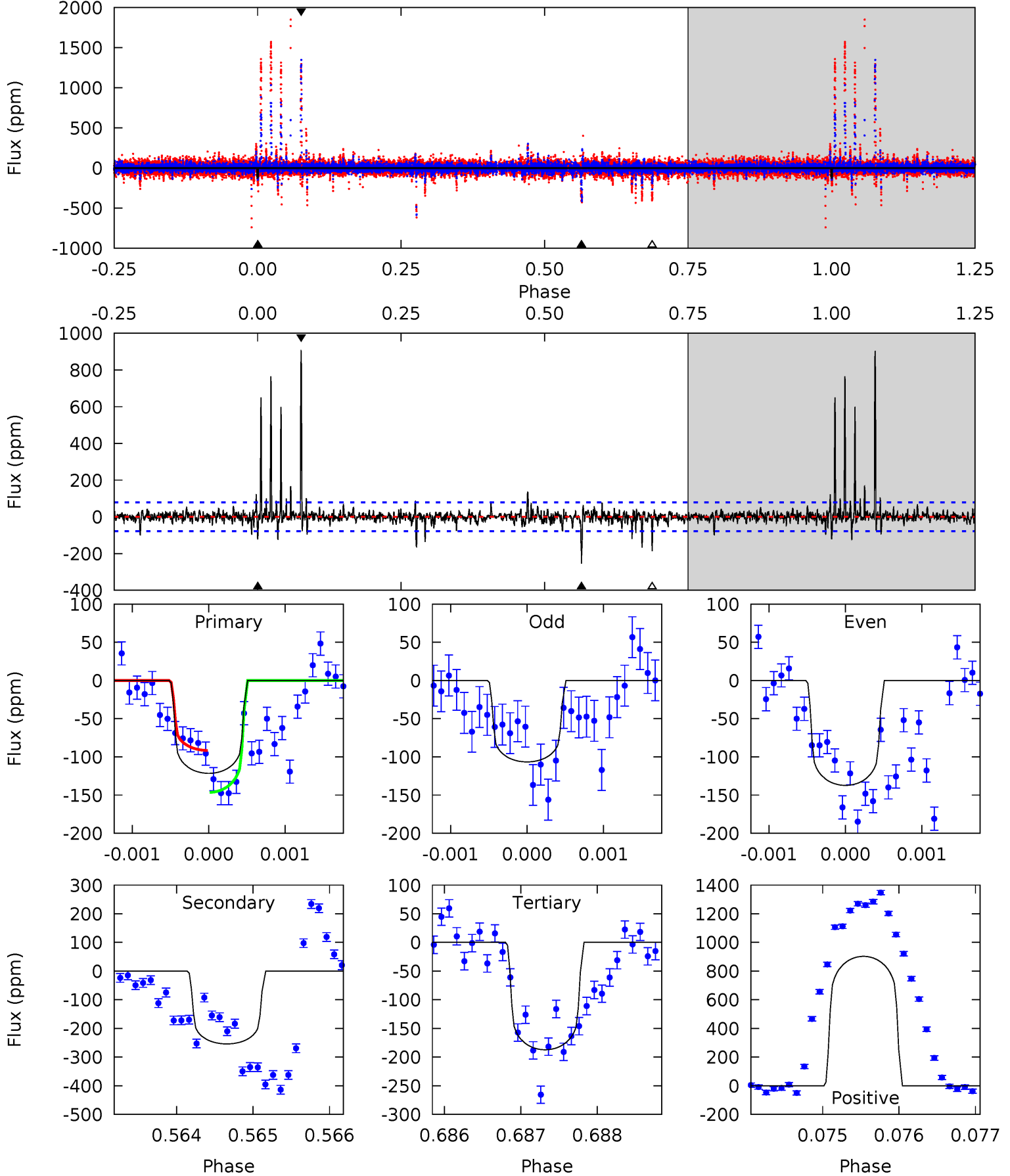
TCE 010195926-04 P=325.118373 Days $T_0=262.337420$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-04, P = 325.114519 Days, E = 262.360222 Days

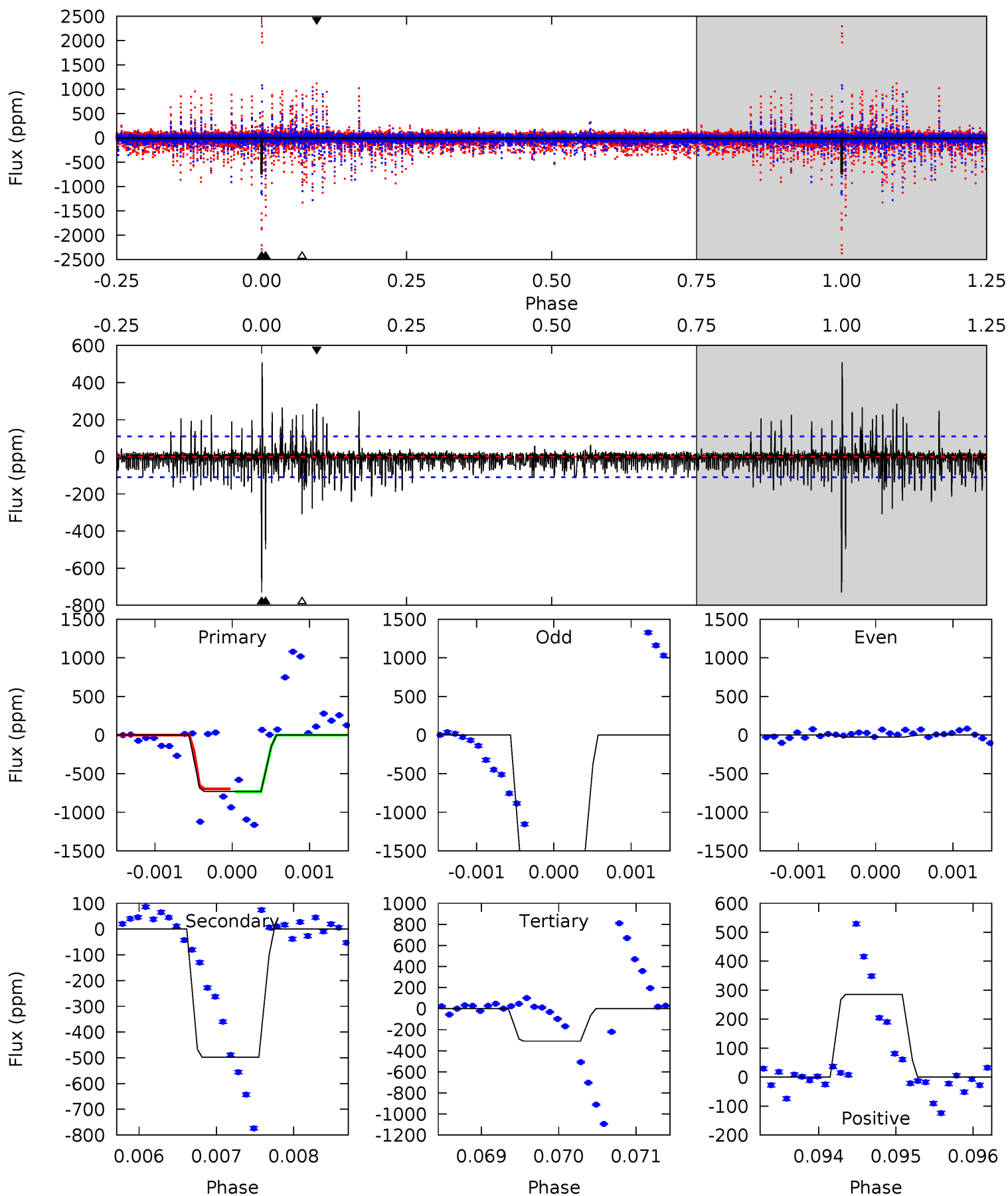
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.43	17.6	13.0	62.6	5.43	3.26	3.75	-4.55	-54.2	4.64	-45.0	1.00	1.07	0.78	1.92



Alt Model-Shift Uniqueness Test

010195926-04, P = 325.118373 Days, E = 262.337420 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
36.3	24.7	15.3	14.2	5.46	3.31	1.89	21.0	22.1	9.42	10.5	33.5	20.6	0.41	0.84



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-254 ± 14	$4.43^{+1.31}_{-1.52}$	789^{+55}_{-101}	8524^{+1612}_{-1058}	8834^{+10901}_{-3551}
Alt.	-498 ± 20	$14.12^{+2.12}_{-3.86}$	790^{+54}_{-102}	5558^{+267}_{-238}	1711^{+1320}_{-405}

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

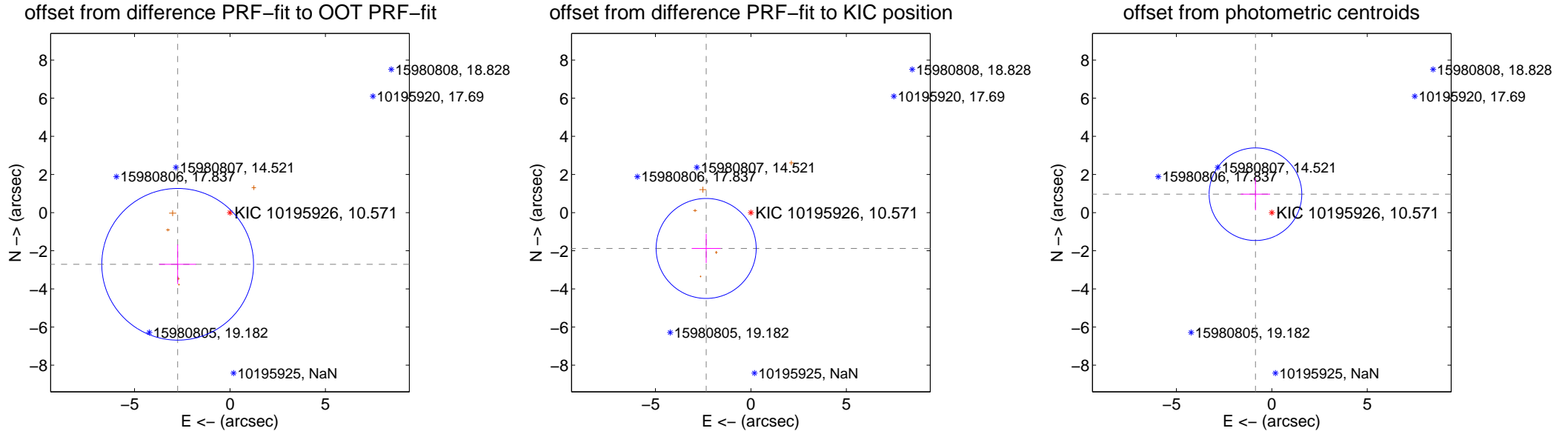
DV Centroid Data

Supplemental centroid analysis for 010195926-04. **Kepler magnitude: 10.57.** Transit SNR 8.34

There are 0 quarters with good PRF difference image offsets

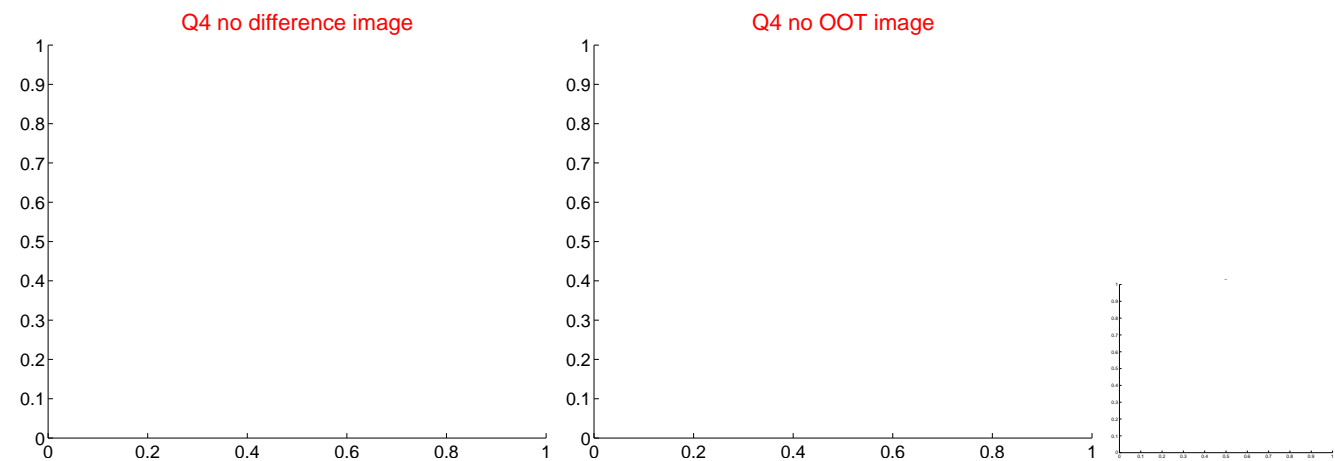
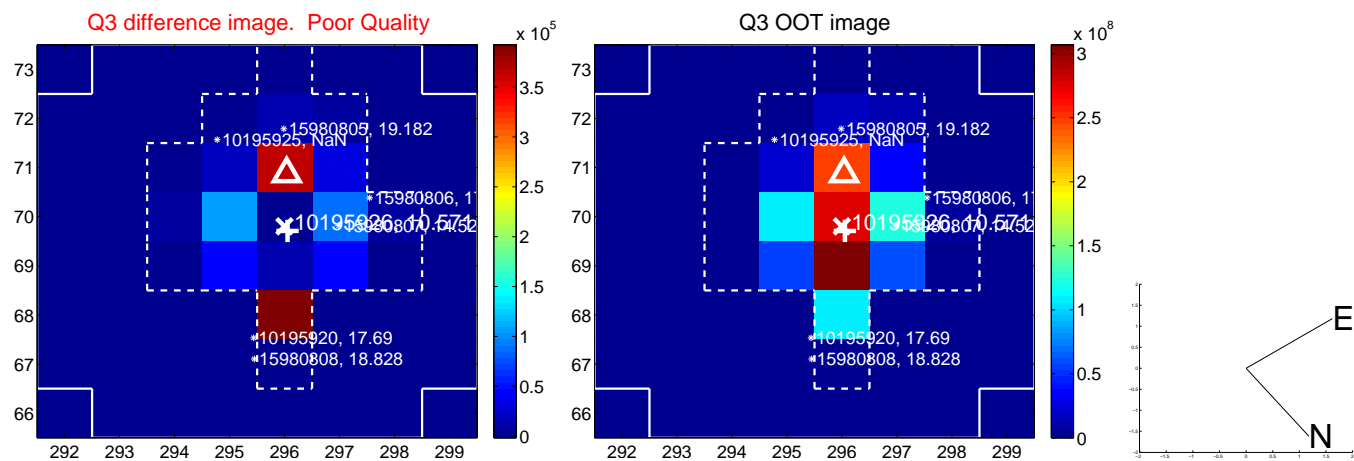
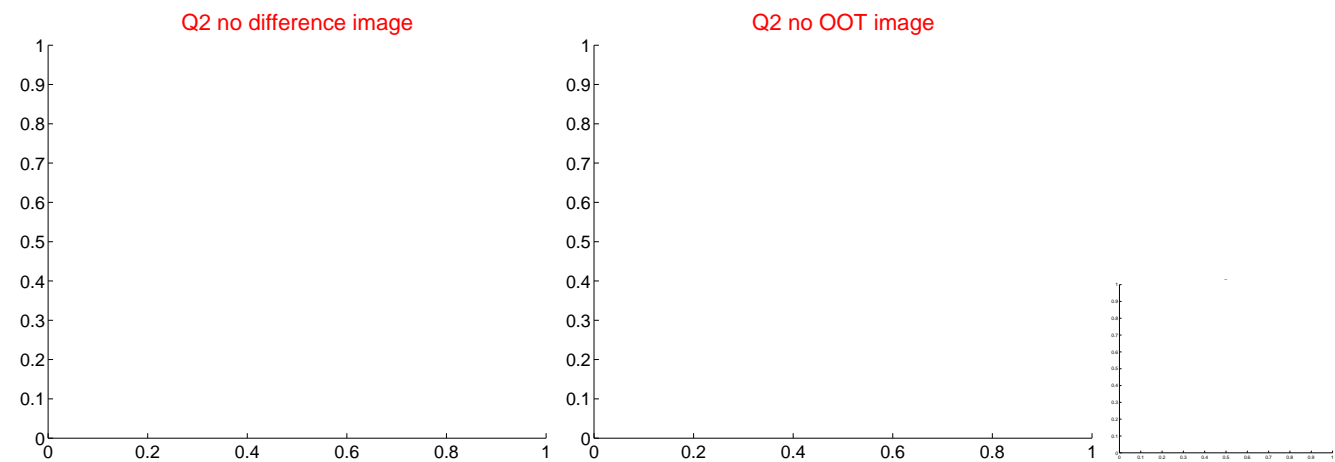
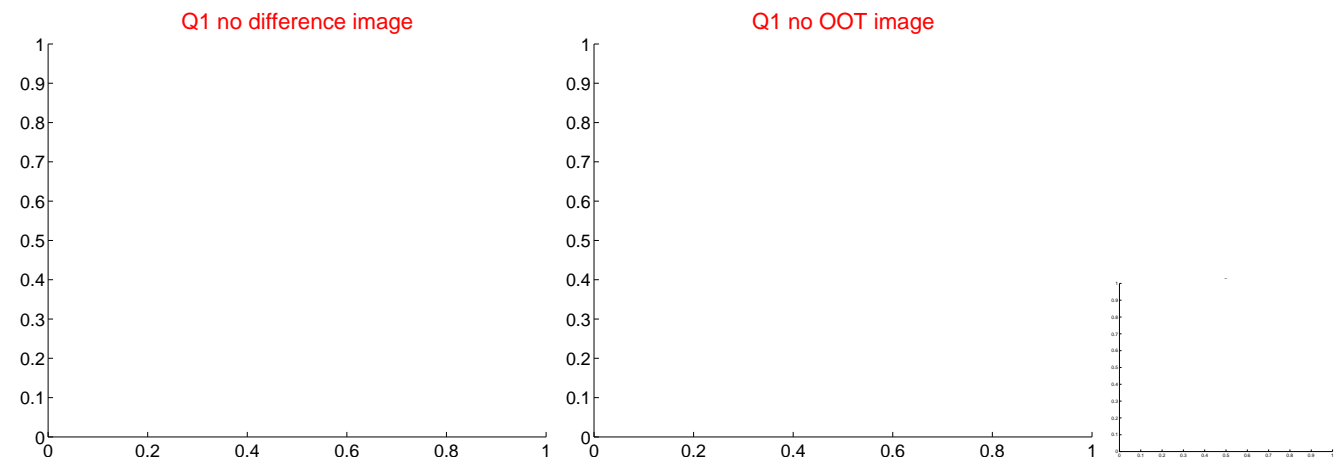
The direct PRF centroid is offset from the target star catalog position by about 1.56 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.855 ± 1.325	2.91	2.741 ± 0.961	-2.710 ± 1.037
PRF-fit source offset from KIC position	3.004 ± 0.874	3.44	2.344 ± 0.756	-1.879 ± 0.767
photometric centroid source offset	1.29 ± 0.81	1.59	0.86 ± 0.77	0.97 ± 0.84

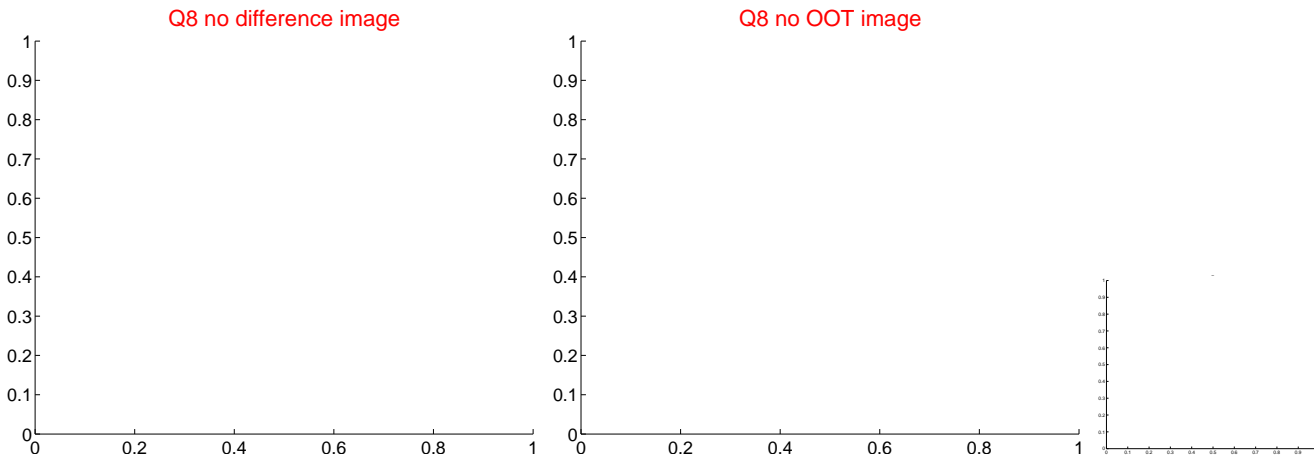
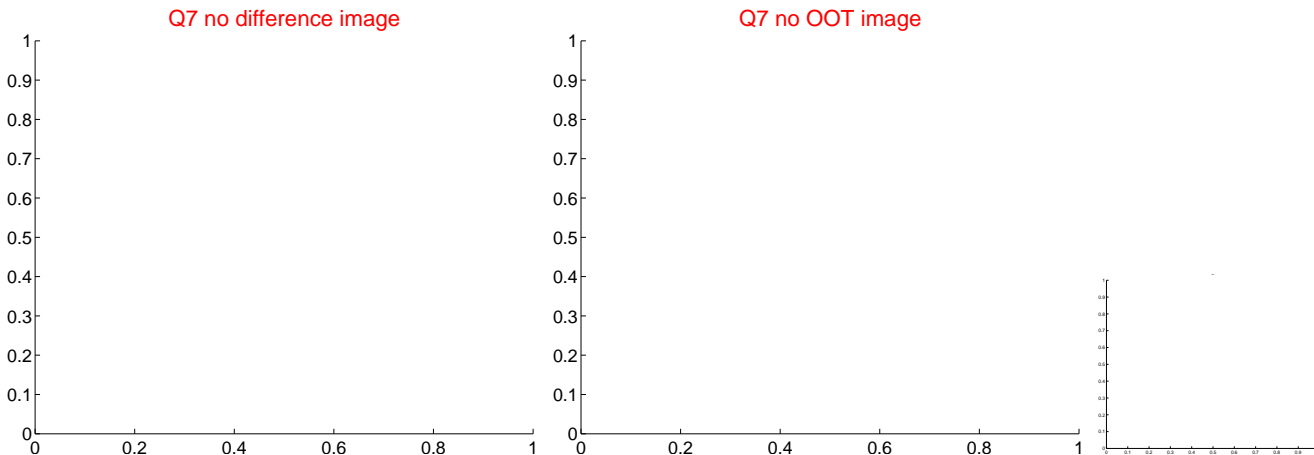
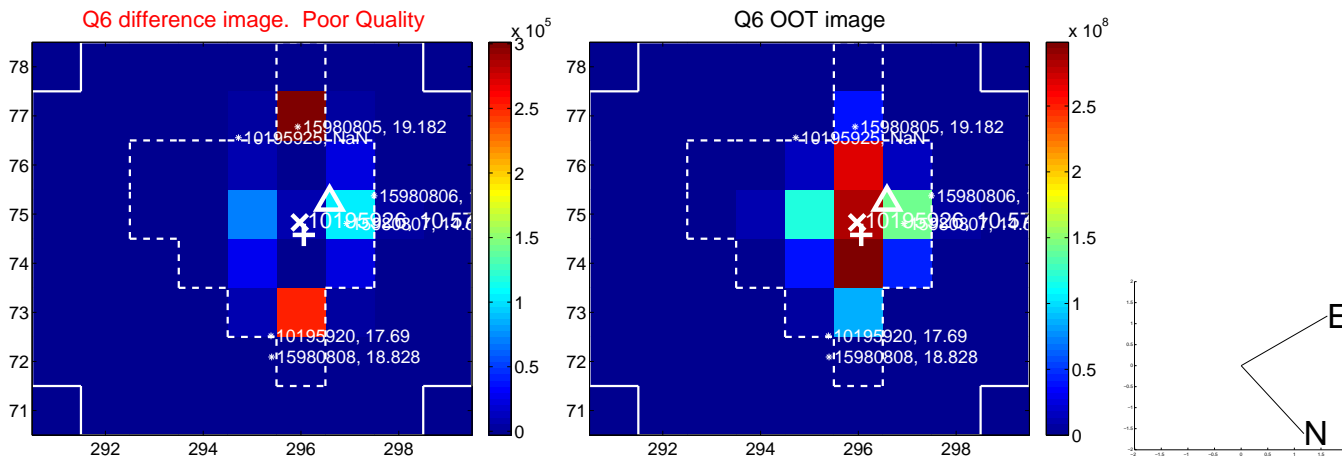
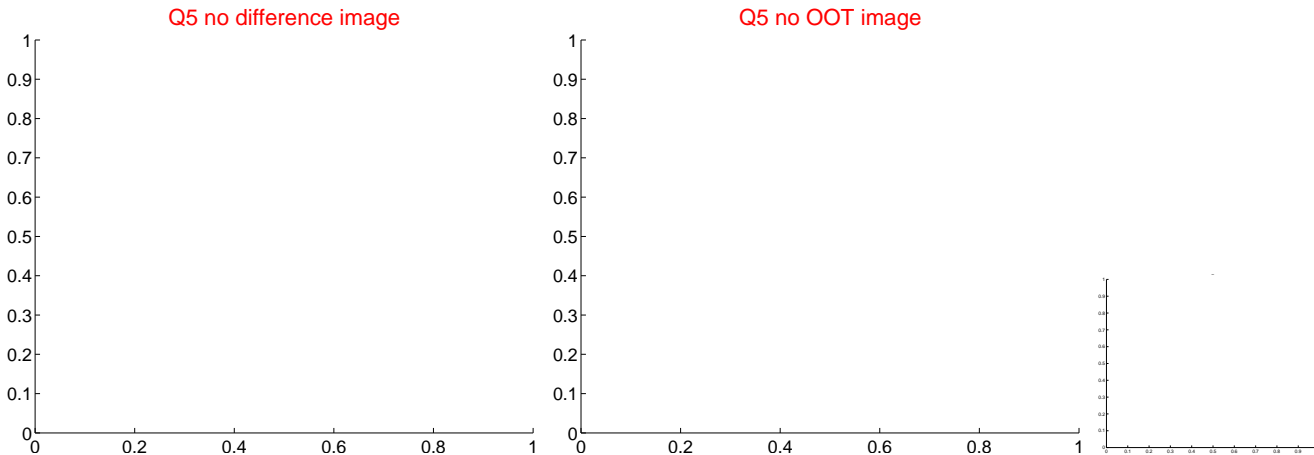


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

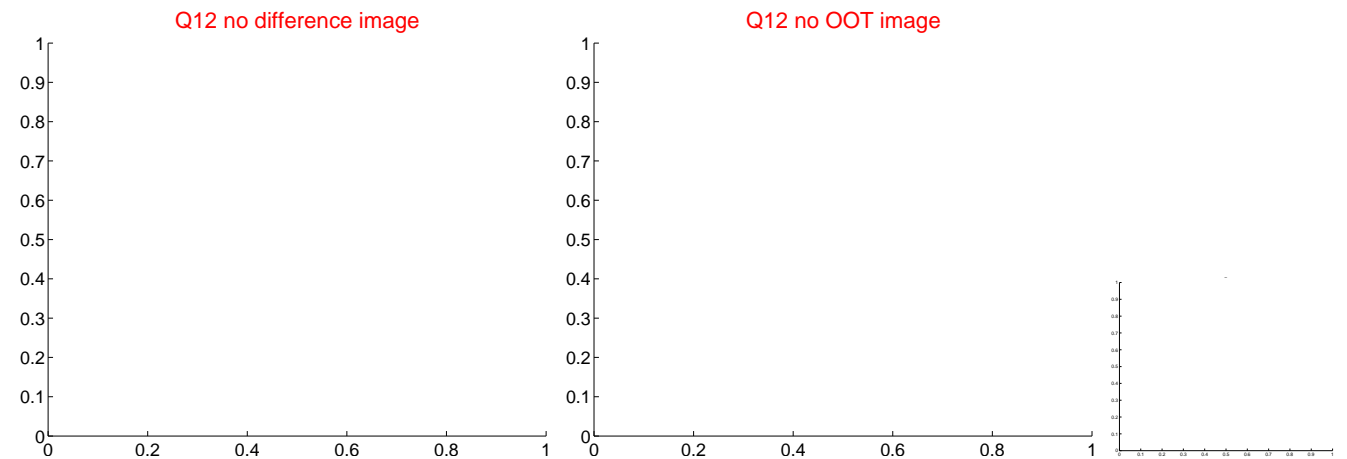
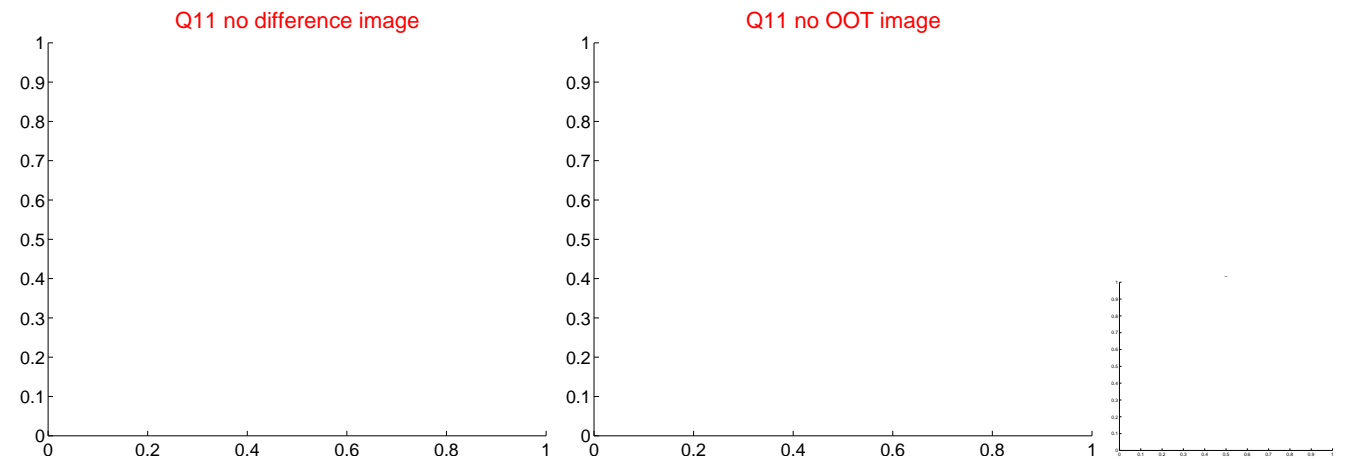
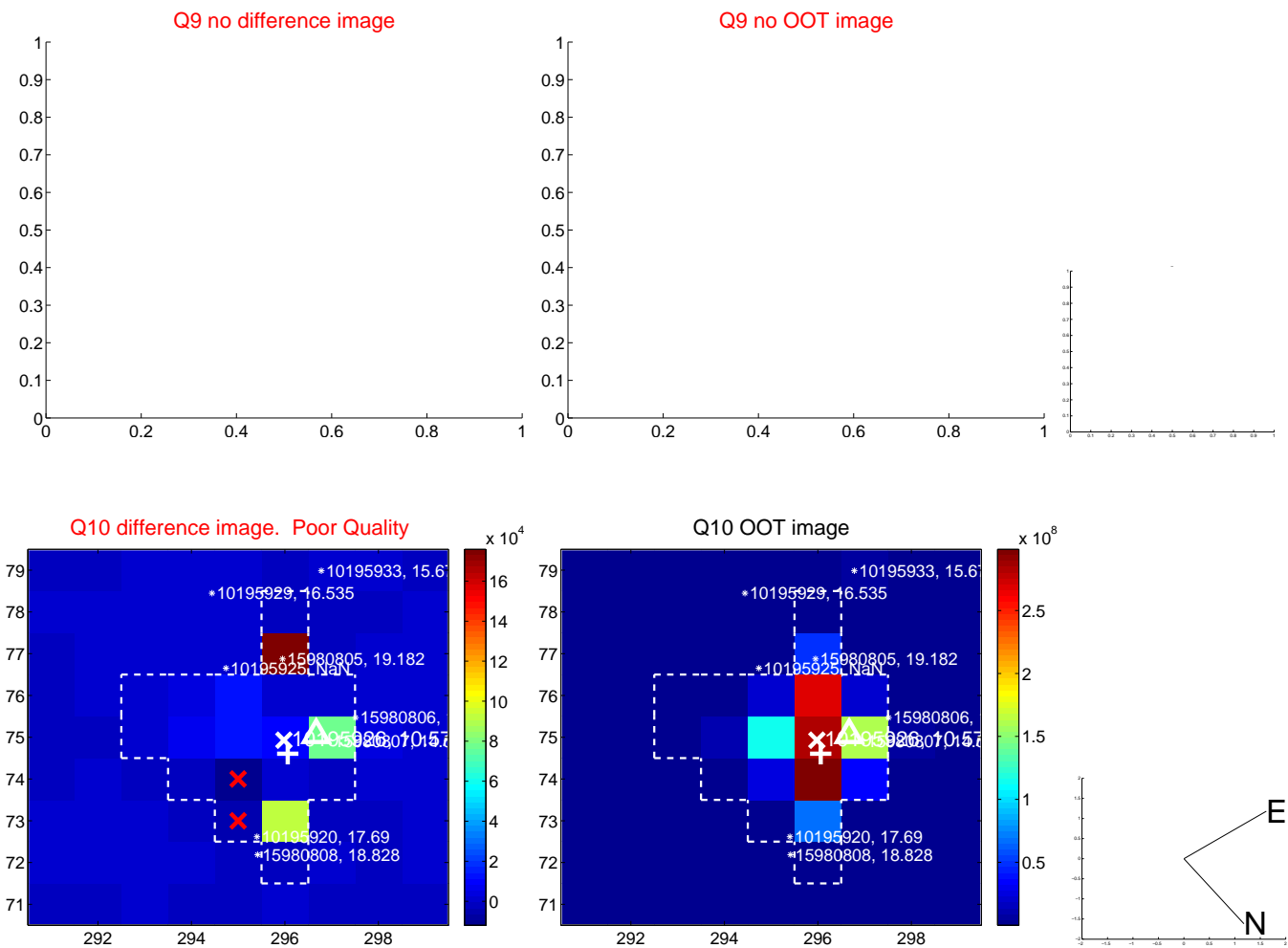
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



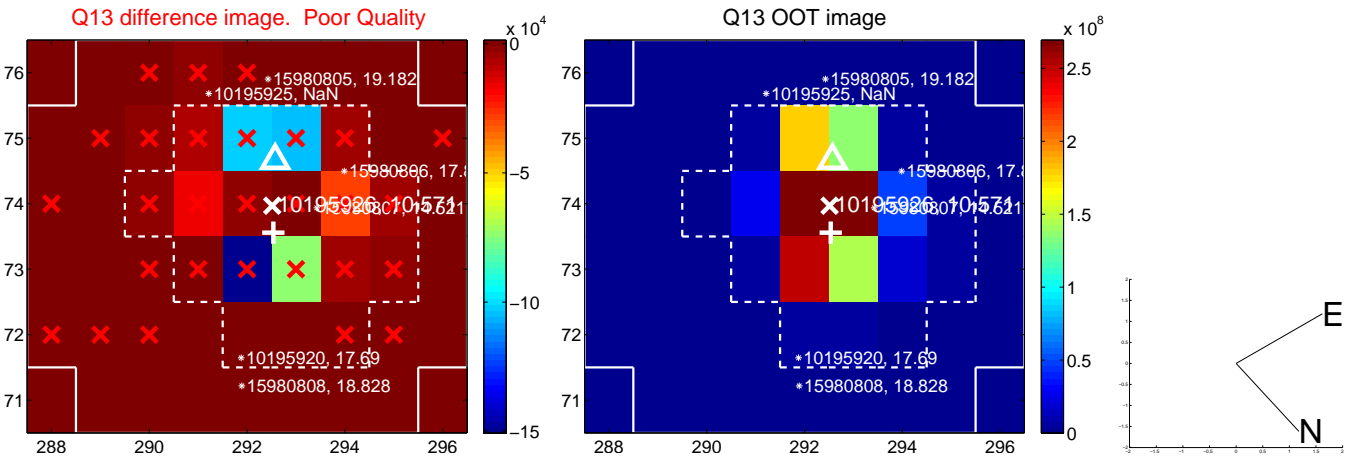
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



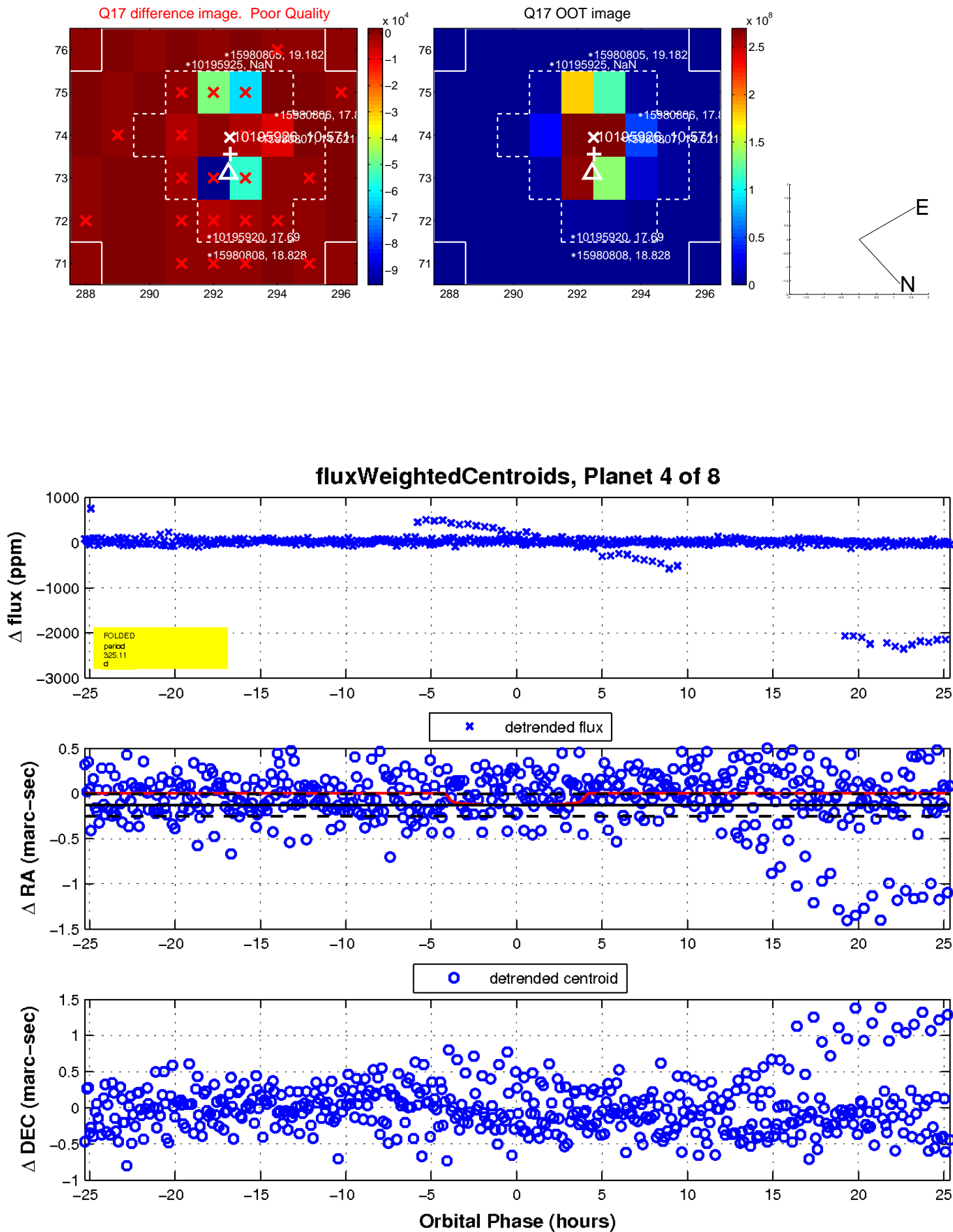
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



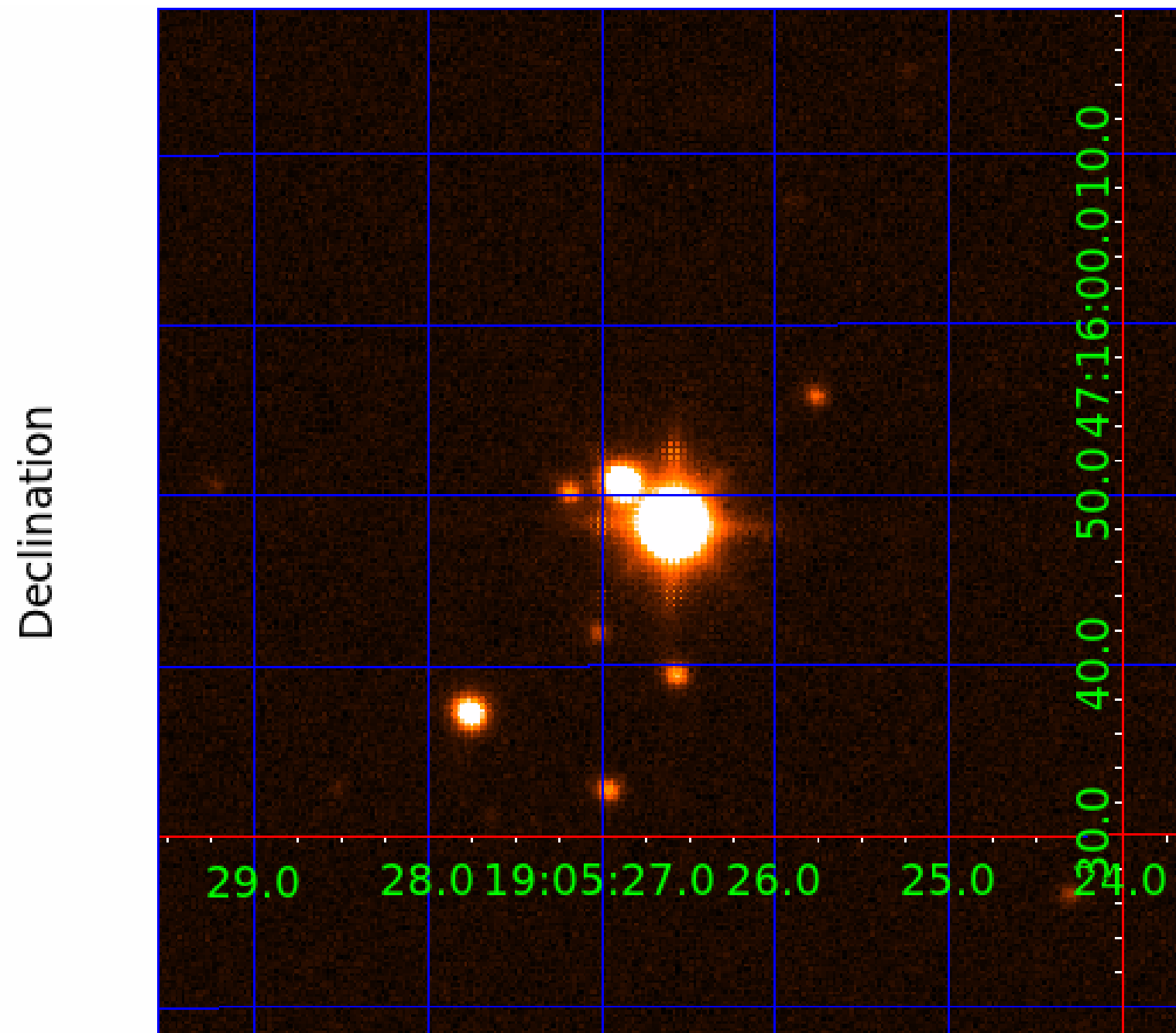
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

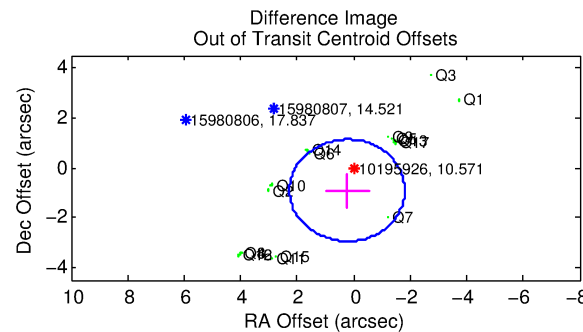
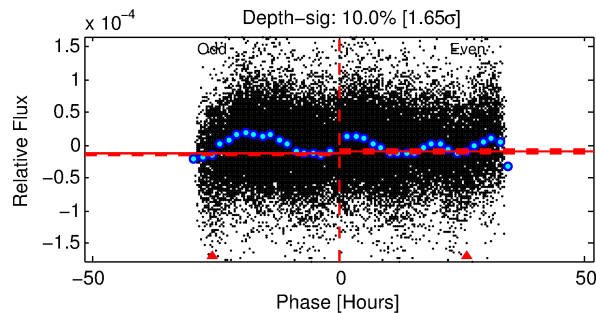
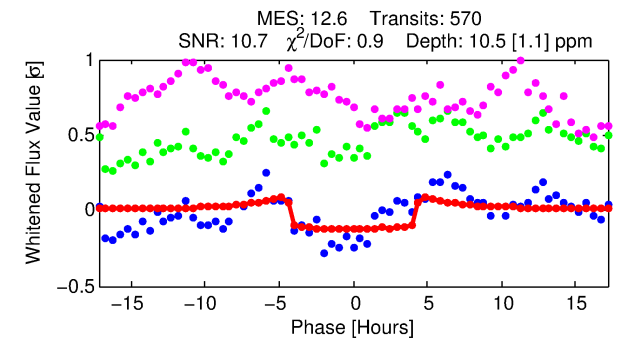
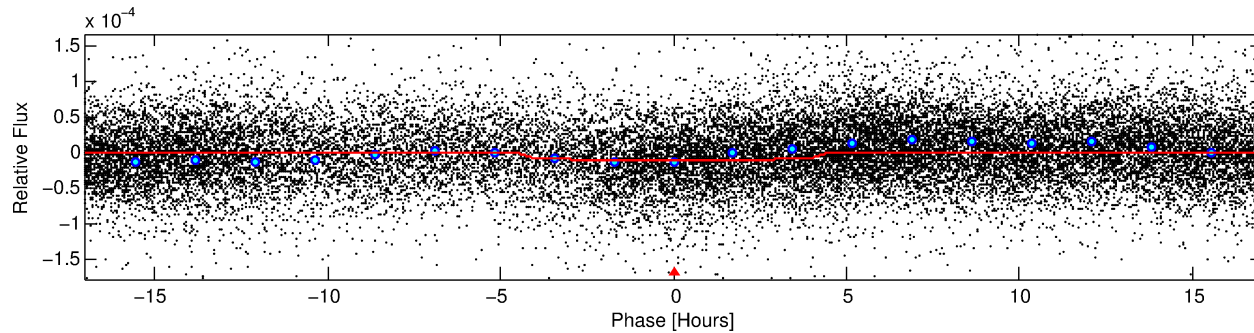
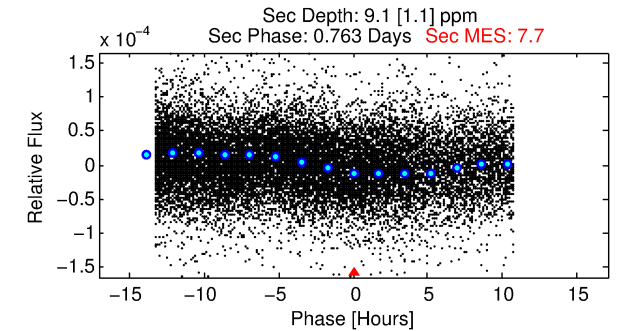
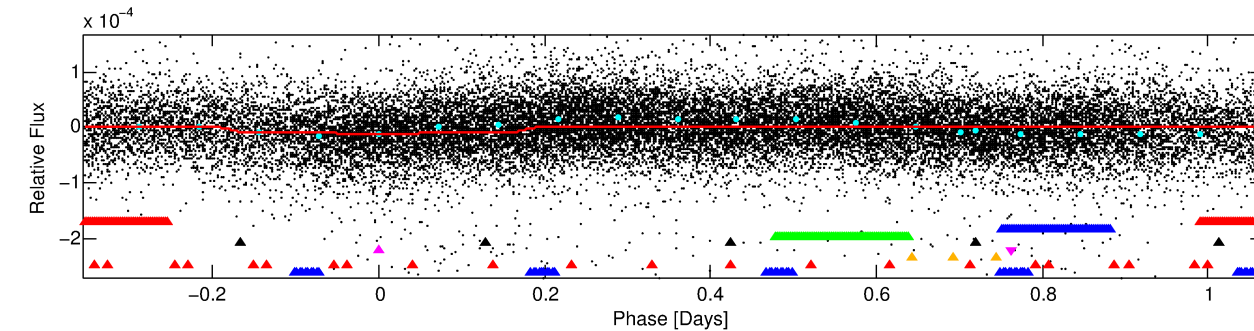
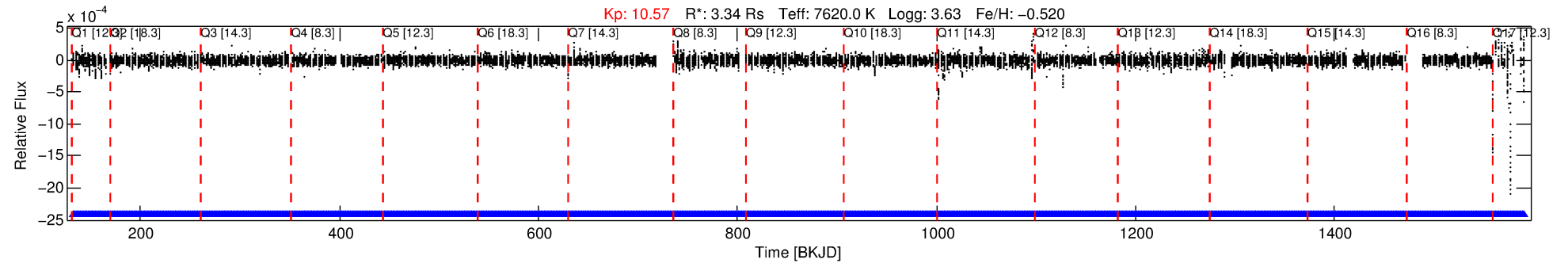
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-05

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 5 of 8 Period: 1.421 d



DV Fit Results:

Period = 1.42100 [0.00002] d
Epoch = 132.0357 [0.0045] BKJD
Rp/R* = 0.0030 [0.0017]
a/R* = 1.39 [2.12]
b = 0.20 [15.15]
Seff = 37931.41 [35995.64]
Teq = 3559 [844] K
Rp = 1.10 [0.85] Re
a = 0.0298 [0.0168] AU
Ag = 3.70 [5.36] [0.50σ]
Teffp = 7632 [2133] K [1.78σ]

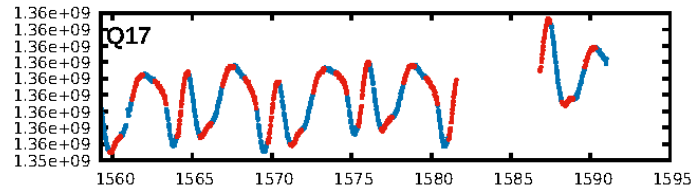
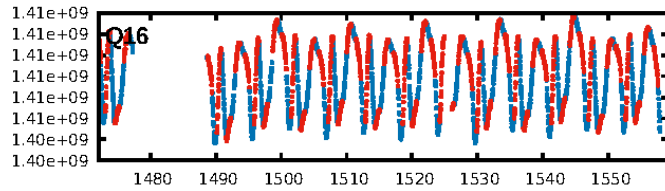
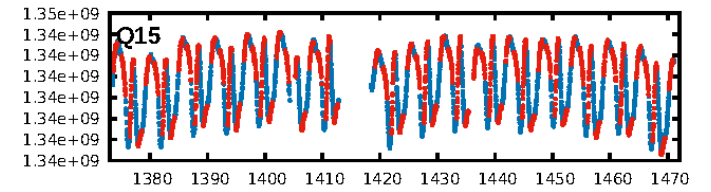
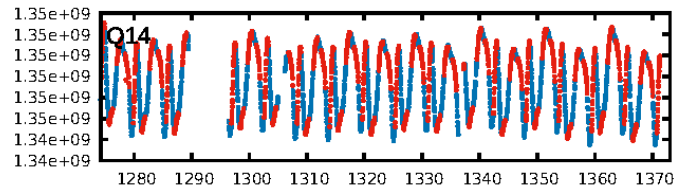
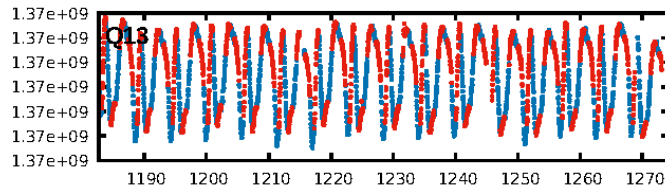
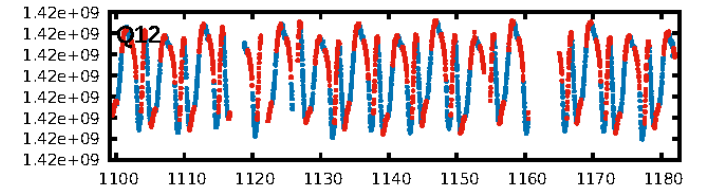
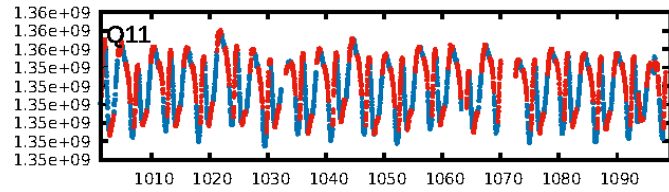
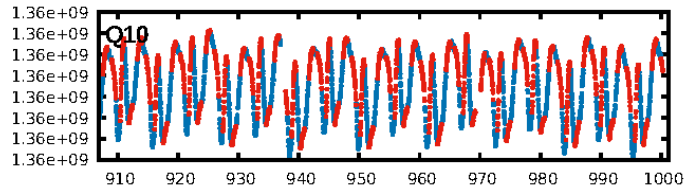
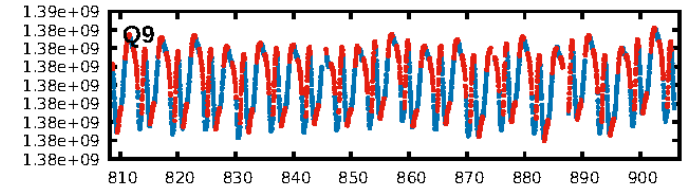
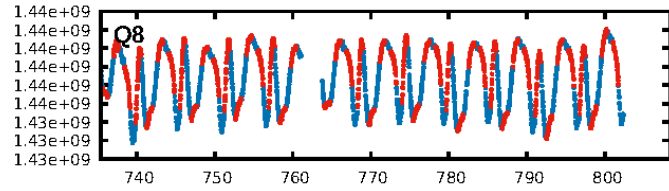
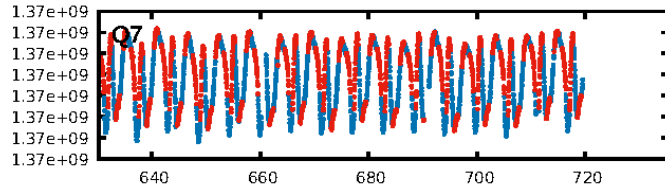
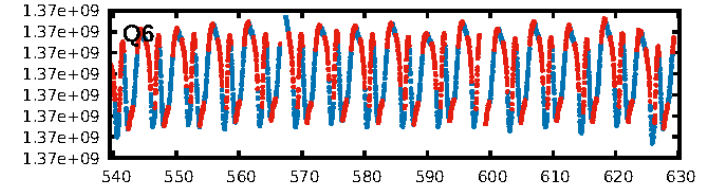
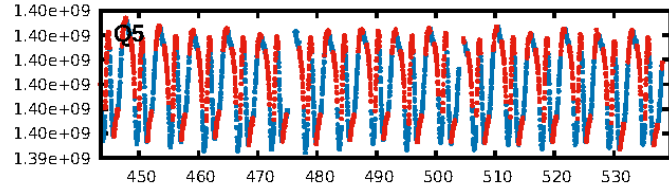
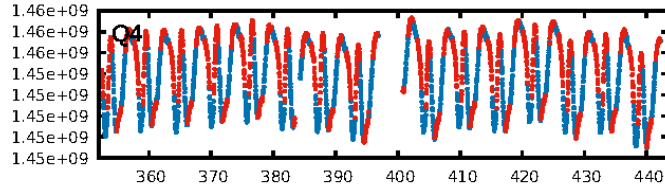
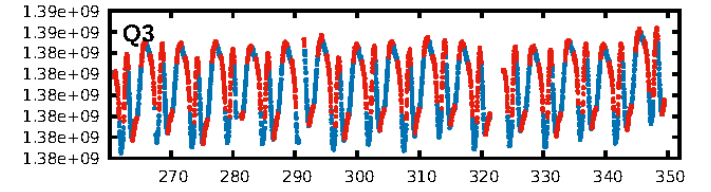
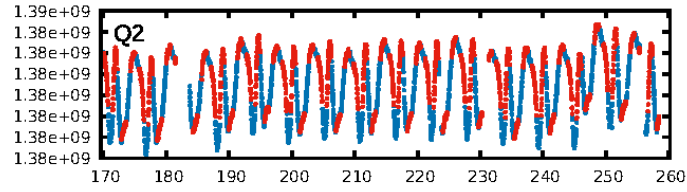
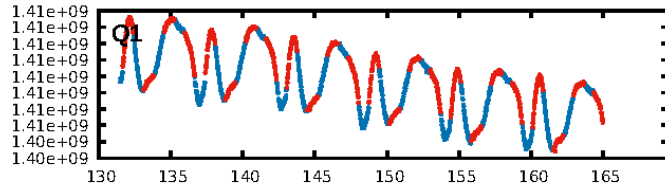
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [8.49σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [544/544]
GhostDiagnostic-chr: 0.2789
Centroid-sig: N/A
Centroid-so: 1.816 arcsec [1.84σ]
OotOffset-rm: 0.938 arcsec [1.38σ]
KicOffset-rm: 0.716 arcsec [0.77σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 0.00 [0/17]
DiffImageOverlap-fno: 0.35 [6/17]

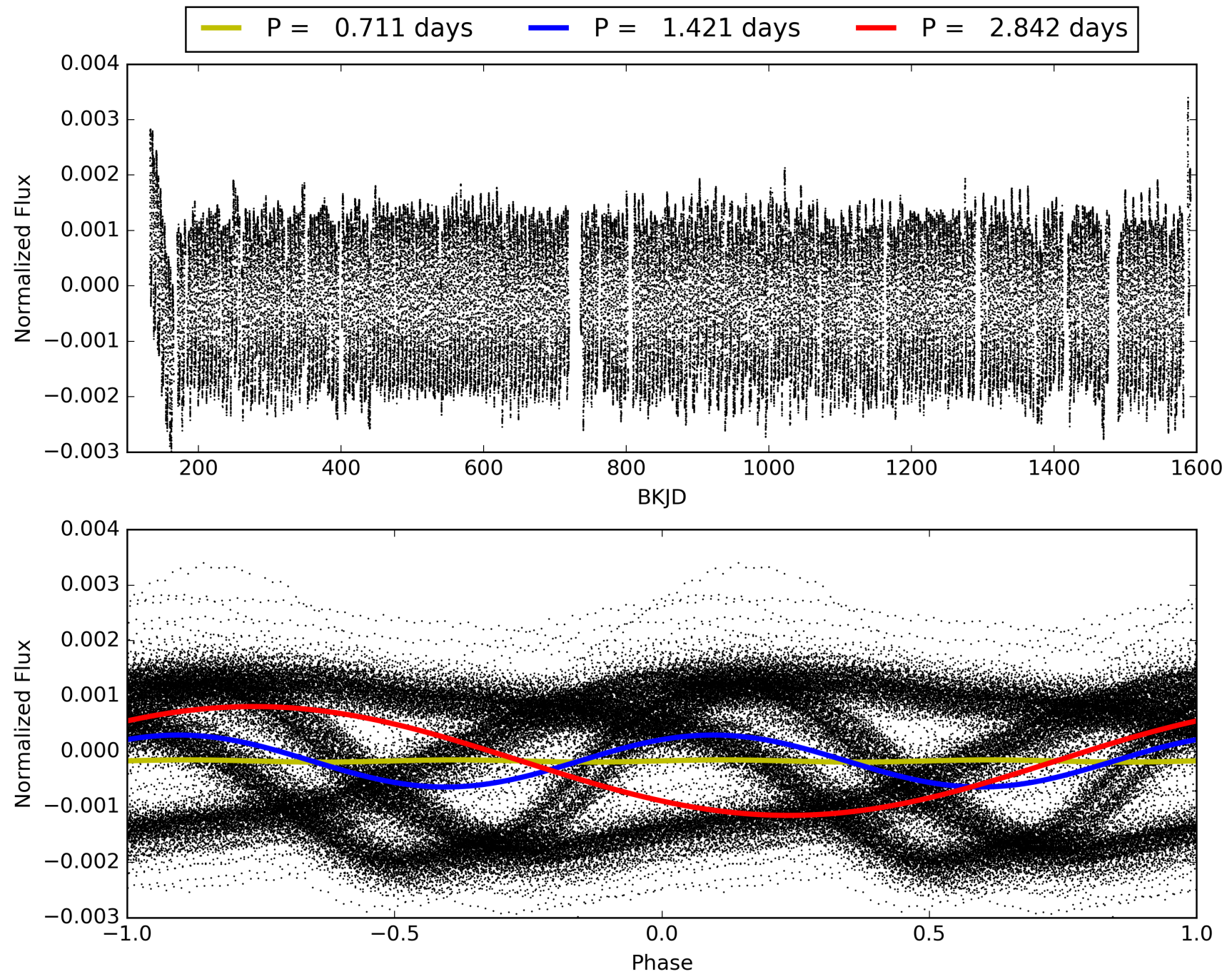
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:18 Z

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

TCE 010195926-05, PDC Light Curves

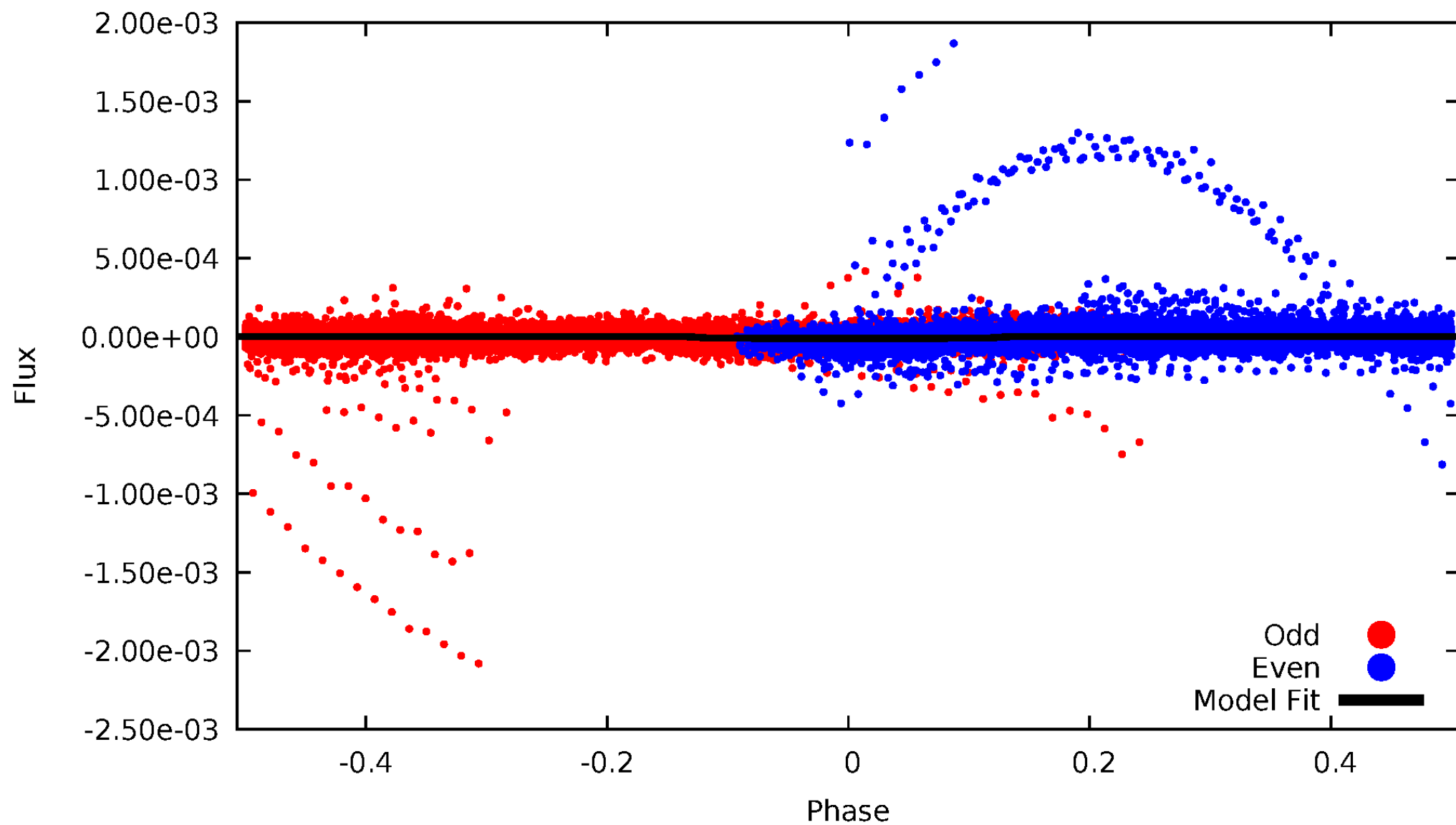


TCE 010195926-05



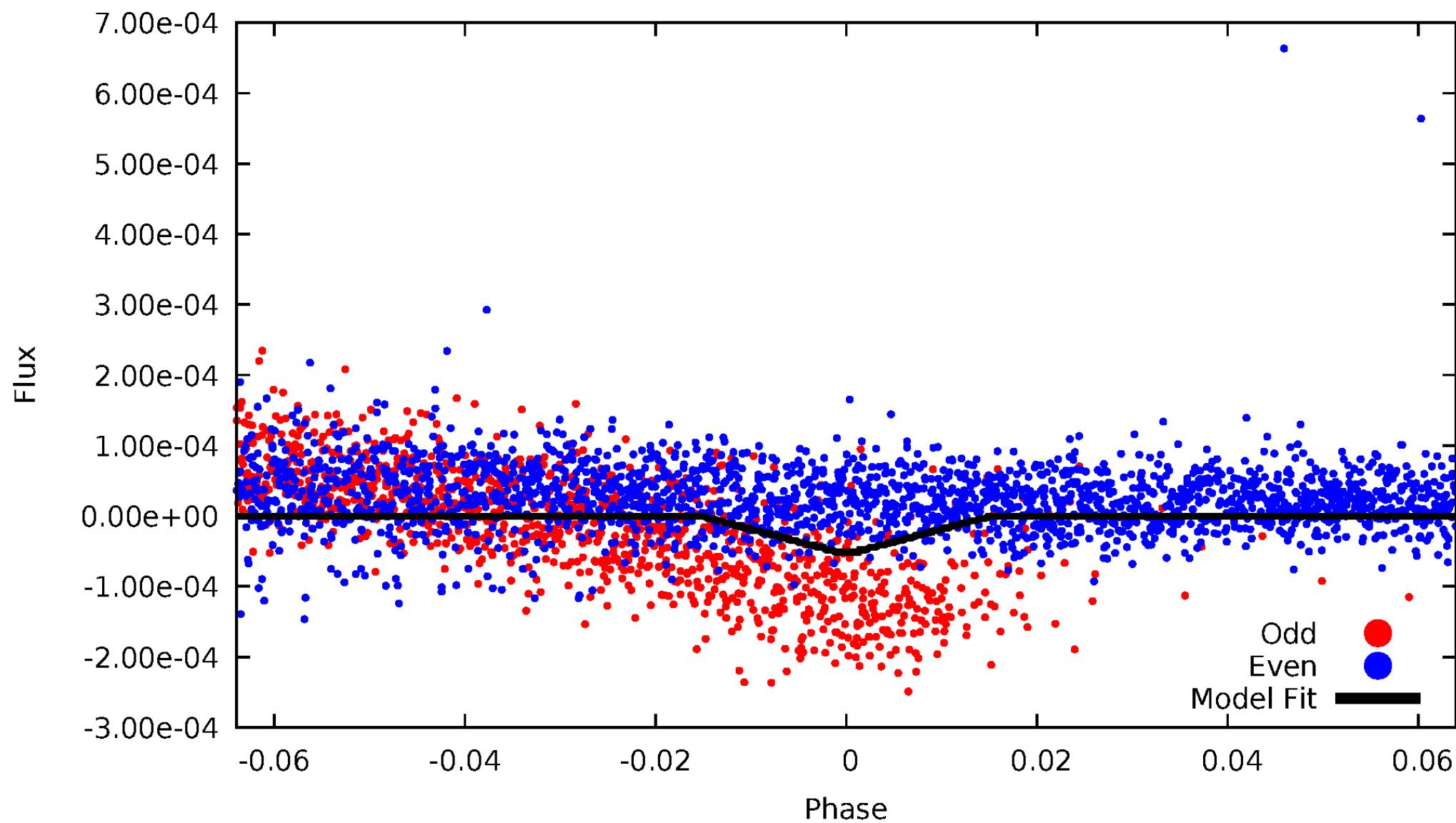
DV Odd/Even

TCE 010195926-05



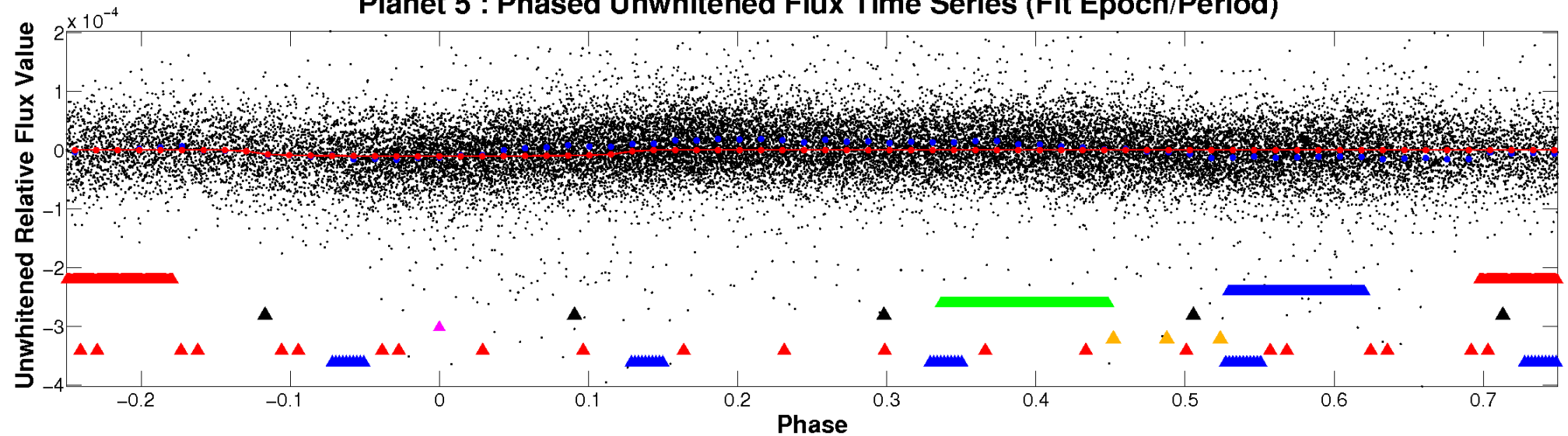
ALT Odd/Even

TCE 010195926-05

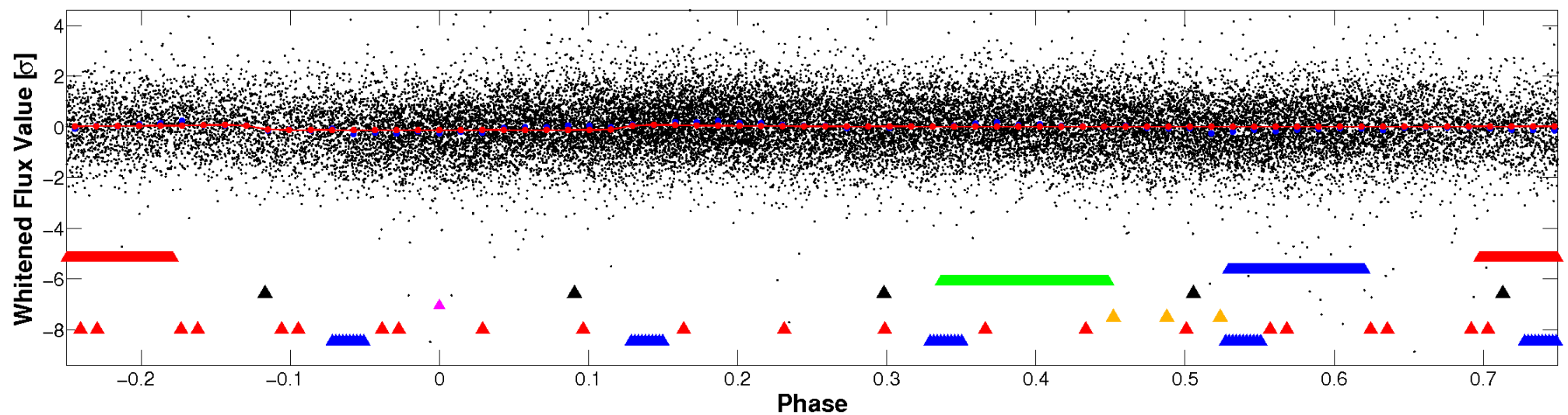


Non-Whitened Vs. Whitened Light Curve

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

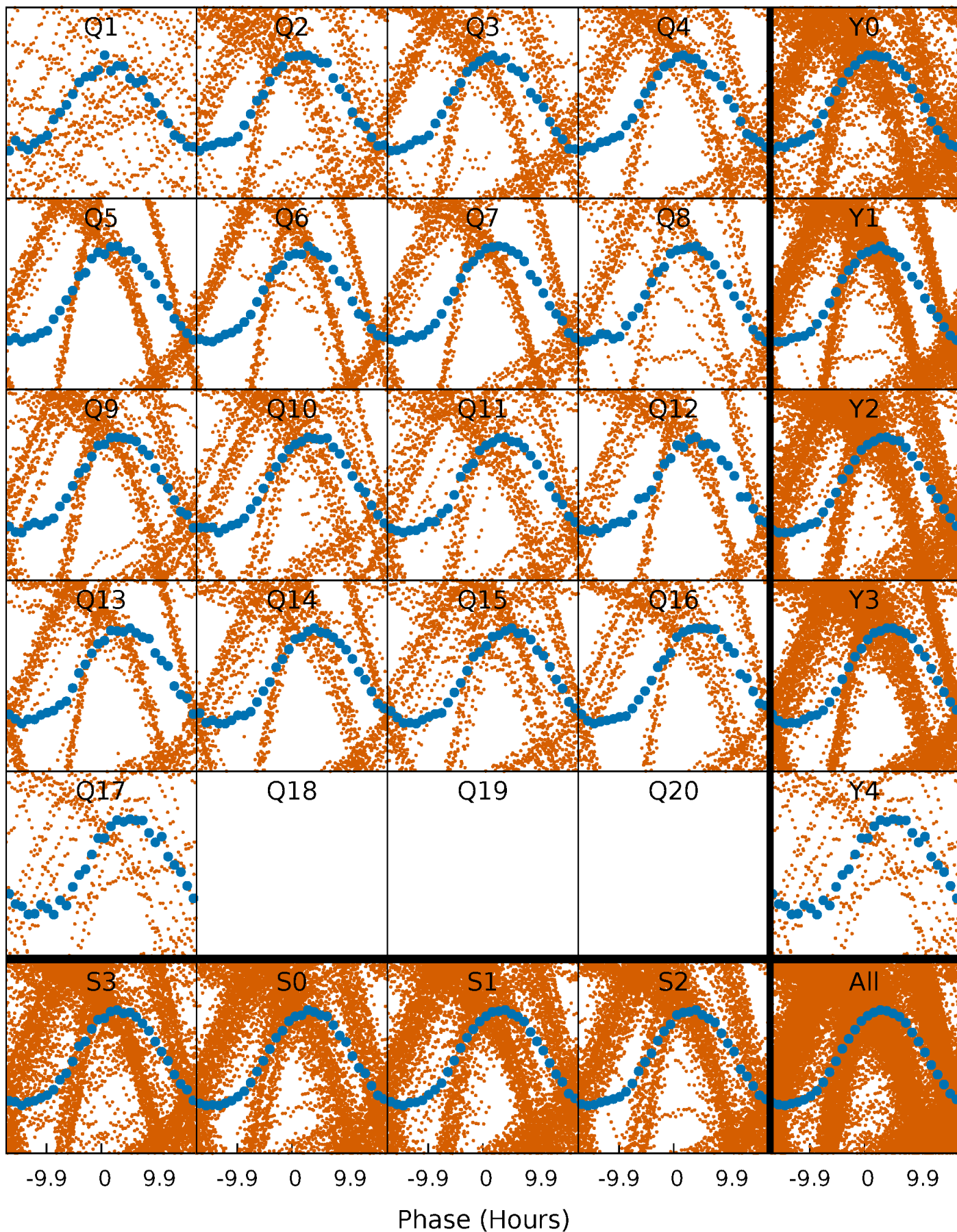


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



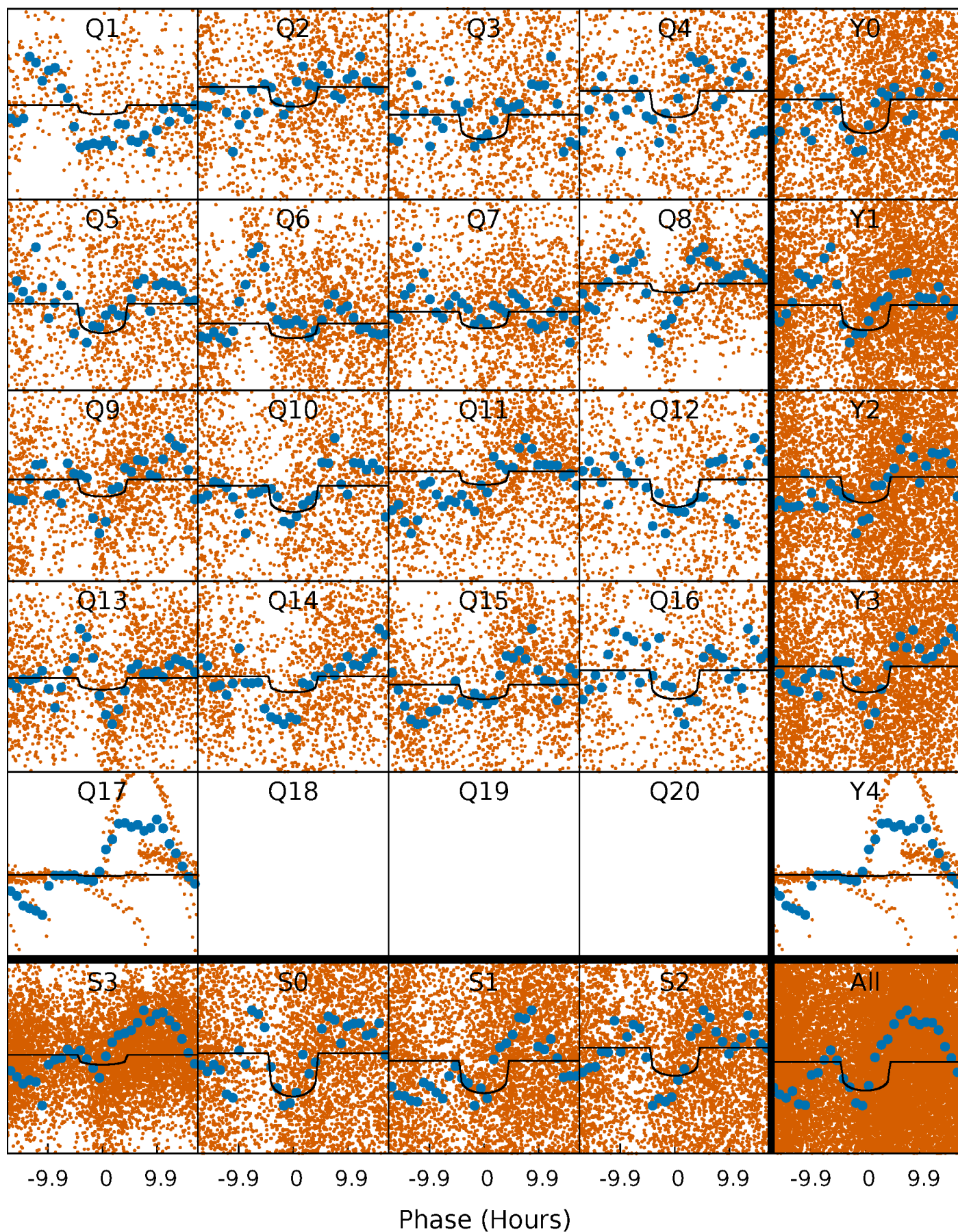
PDC Quarter-Phased Transit Curves

TCE 010195926-05 P= 1.421002 Days $T_0=132.035653$ (BKJD)



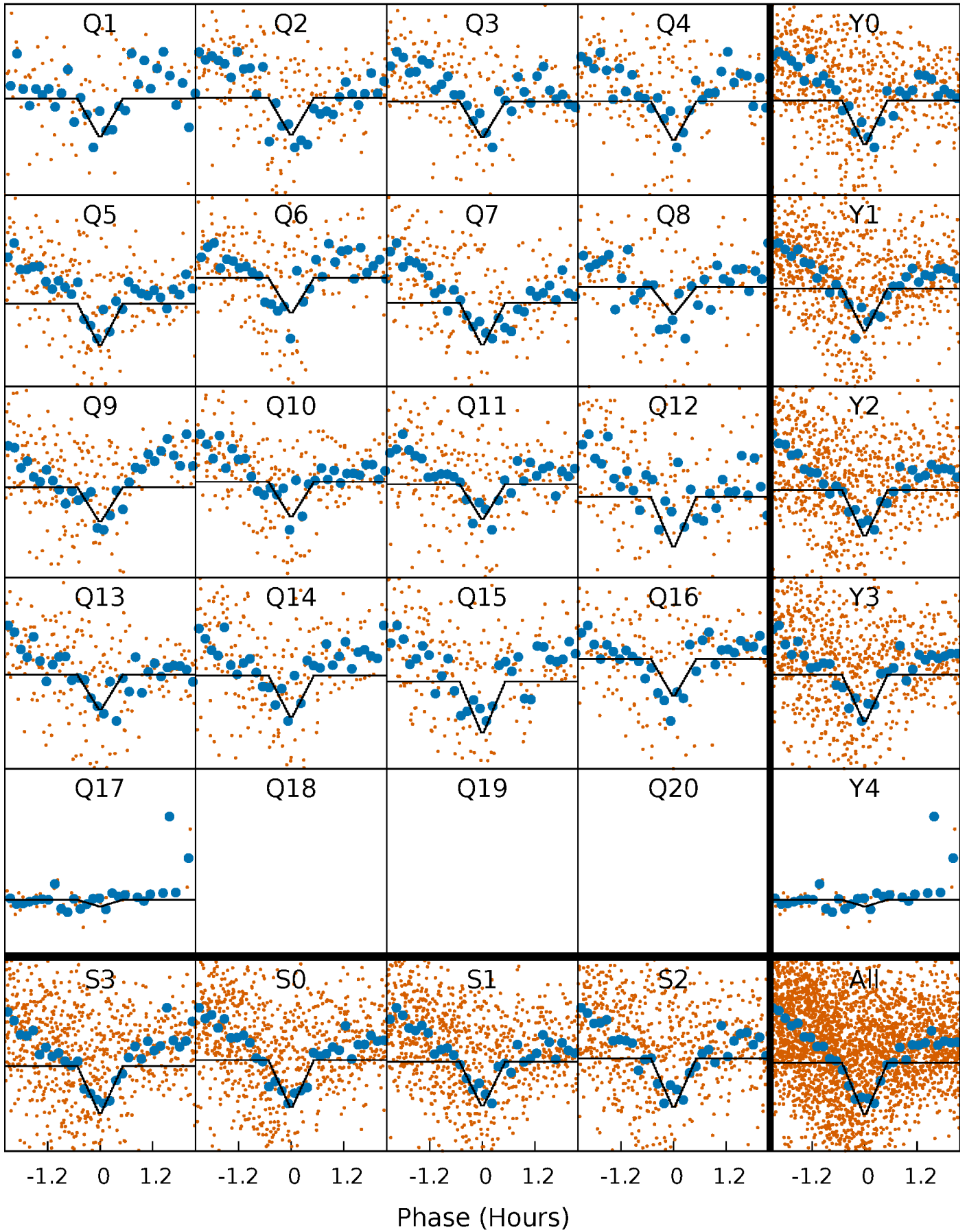
DV Quarter-Phased Transit Curves

TCE 010195926-05 $P = 1.421002$ Days $T_0 = 132.035653$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

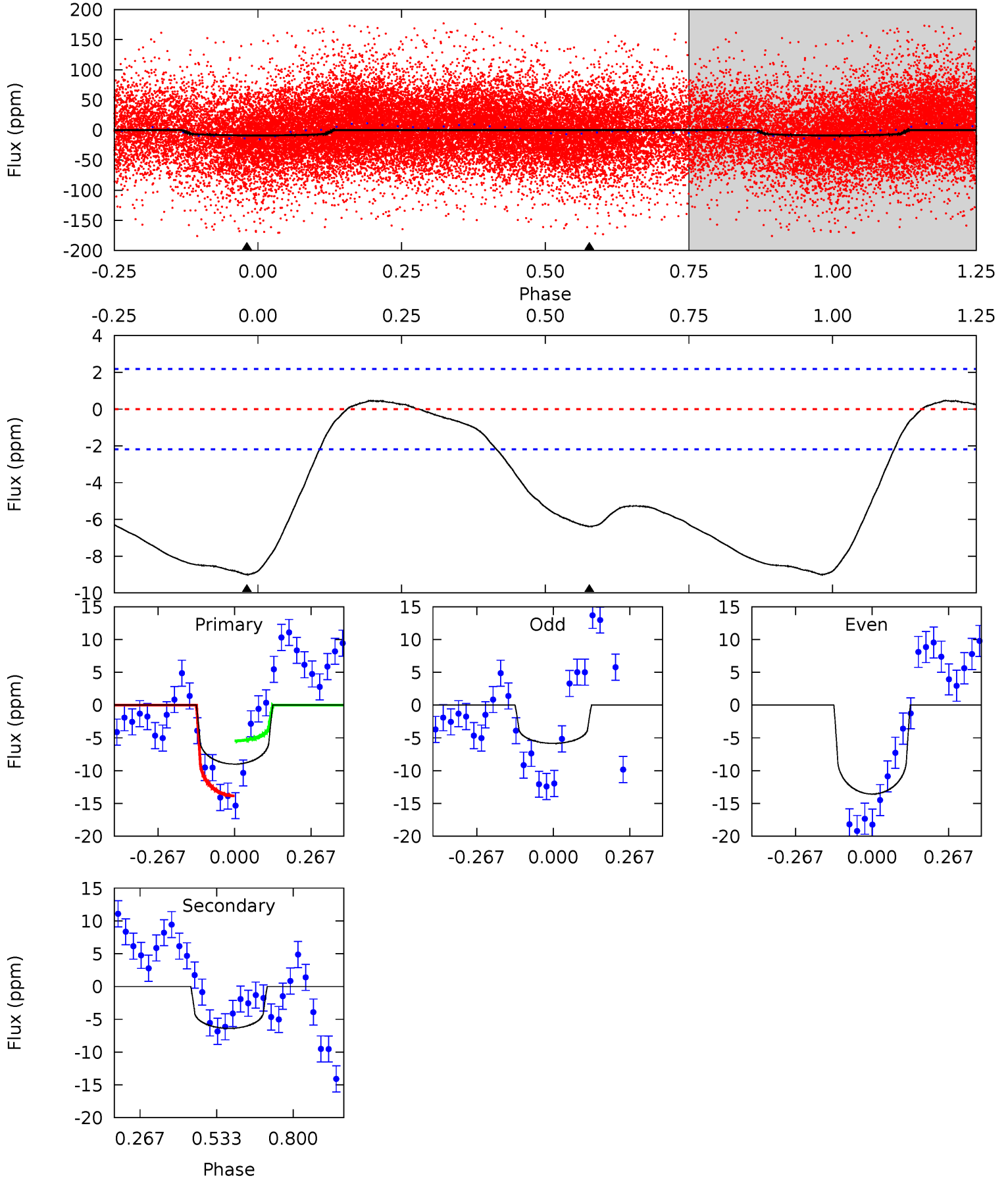
TCE 010195926-05 $P = 1.421160$ Days $T_0 = 132.131308$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-05, P = 1.421002 Days, E = 130.614651 Days

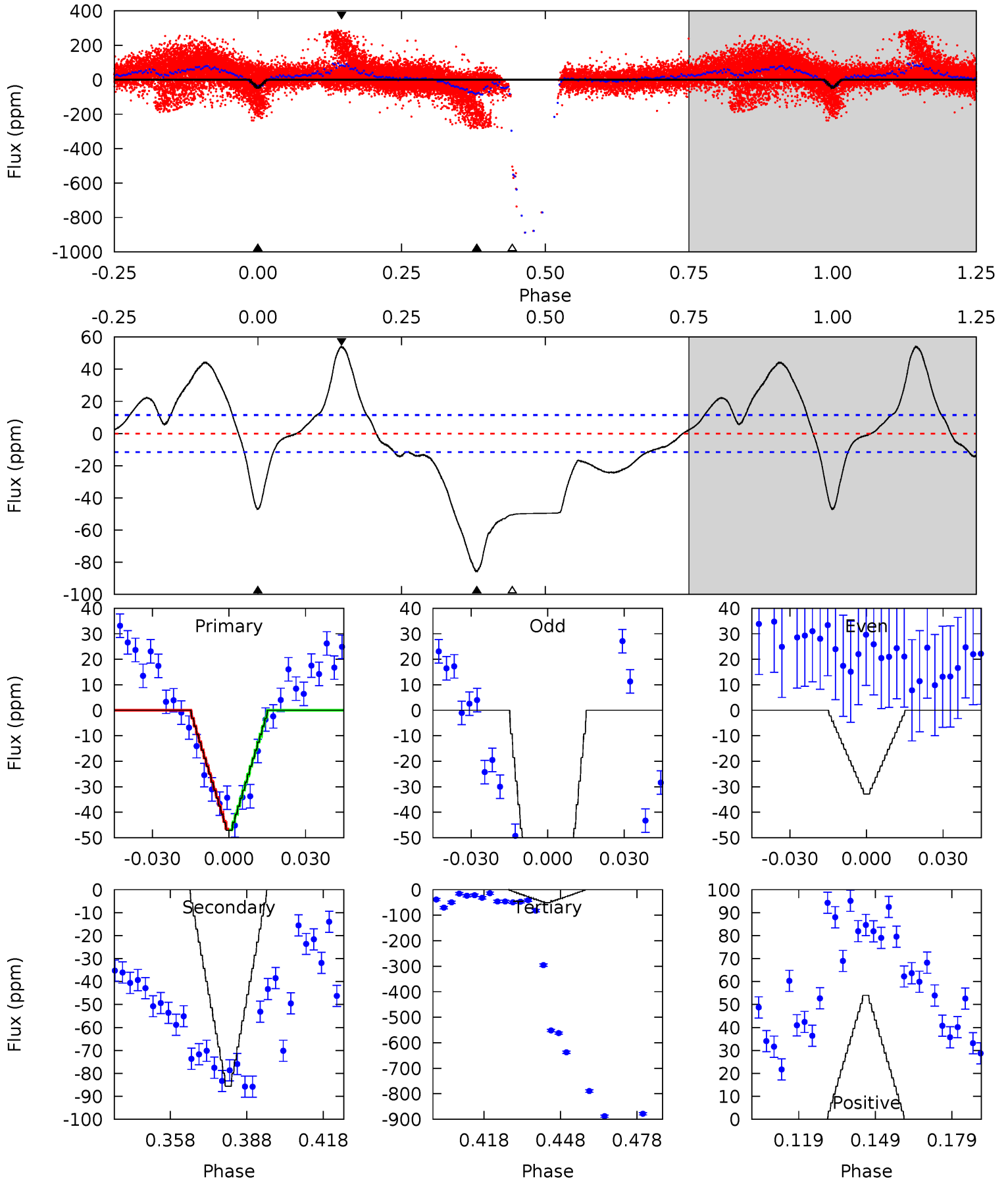
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.0	12.7	0	0	4.35	1.11	0.49	18.0	18.0	12.7	12.7	7.35	0.29	0.05	8.04



Alt Model-Shift Uniqueness Test

010195926-05, P = 1.421160 Days, E = 130.710148 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
19.7	35.8	21.1	22.6	4.81	2.17	10.5	-1.44	-2.90	14.7	13.2	22.9	42.1	0.39	0.07



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-6 ± 1	$1.02^{+0.62}_{-0.53}$	4821^{+344}_{-616}	6435^{+3391}_{-1325}	$2.983^{+9.523}_{-1.828}$
Alt.	-86 ± 2	$2.38^{+0.80}_{-0.75}$	4848^{+303}_{-641}	8769^{+2051}_{-1212}	$7.247^{+7.552}_{-3.079}$

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 $A_{obs} \gg 1.0$

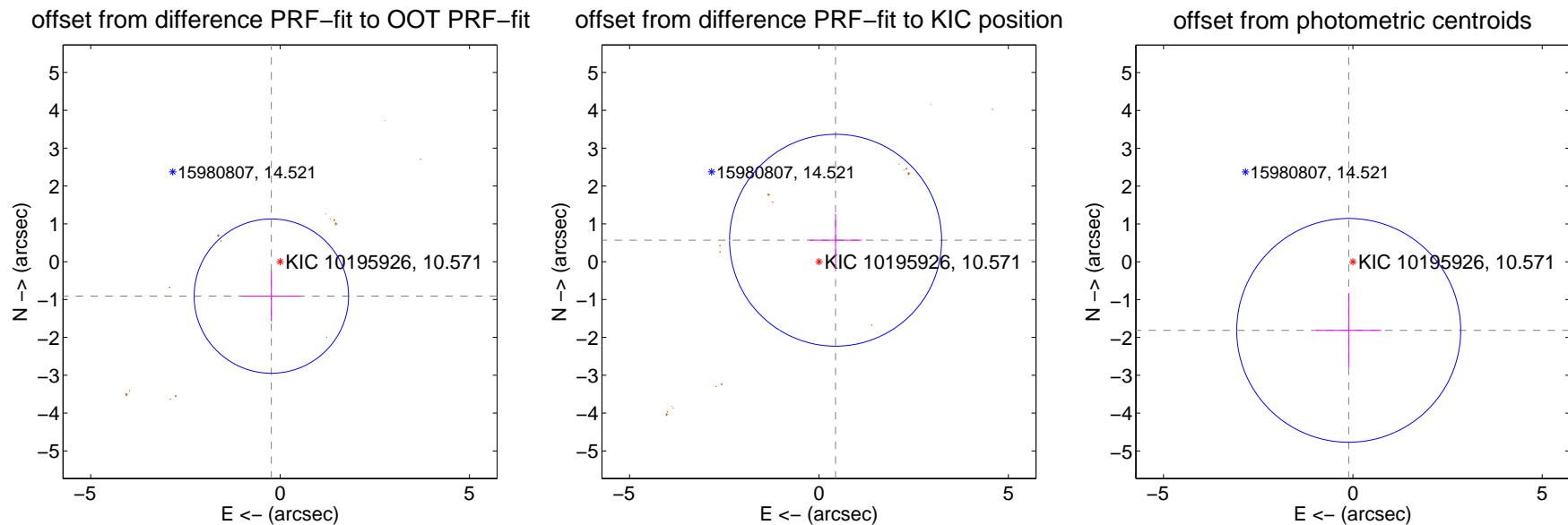
DV Centroid Data

Supplemental centroid analysis for 010195926-05. **Kepler magnitude: 10.57.** Transit SNR 10.75

There are 0 quarters with good PRF difference image offsets

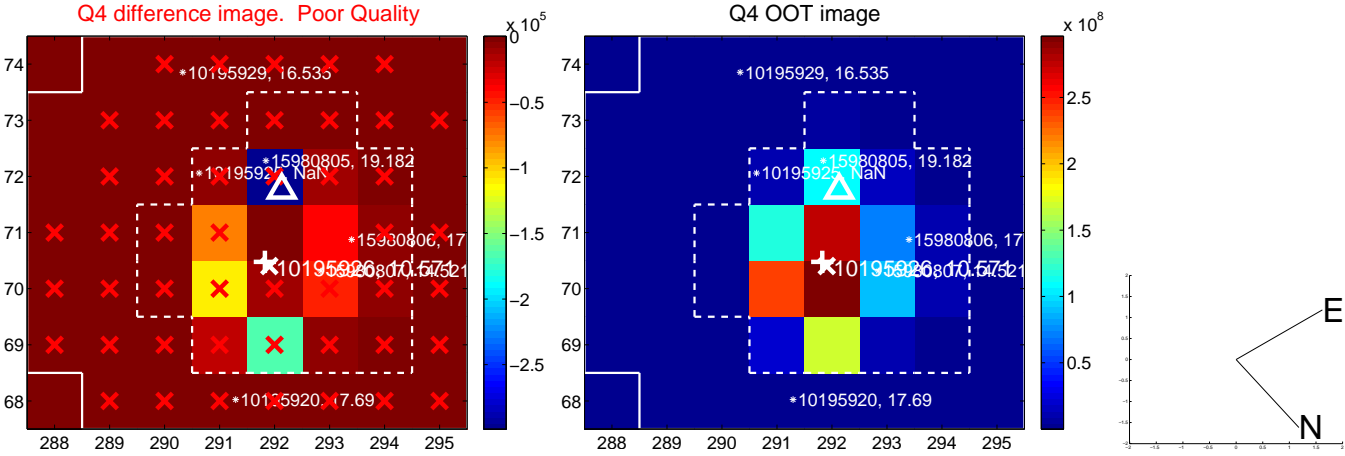
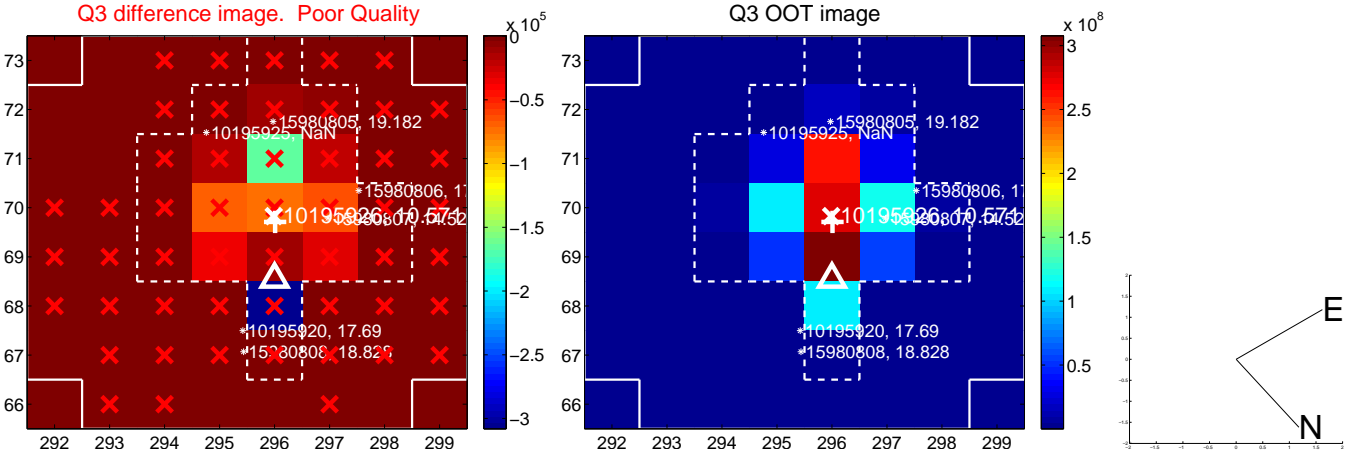
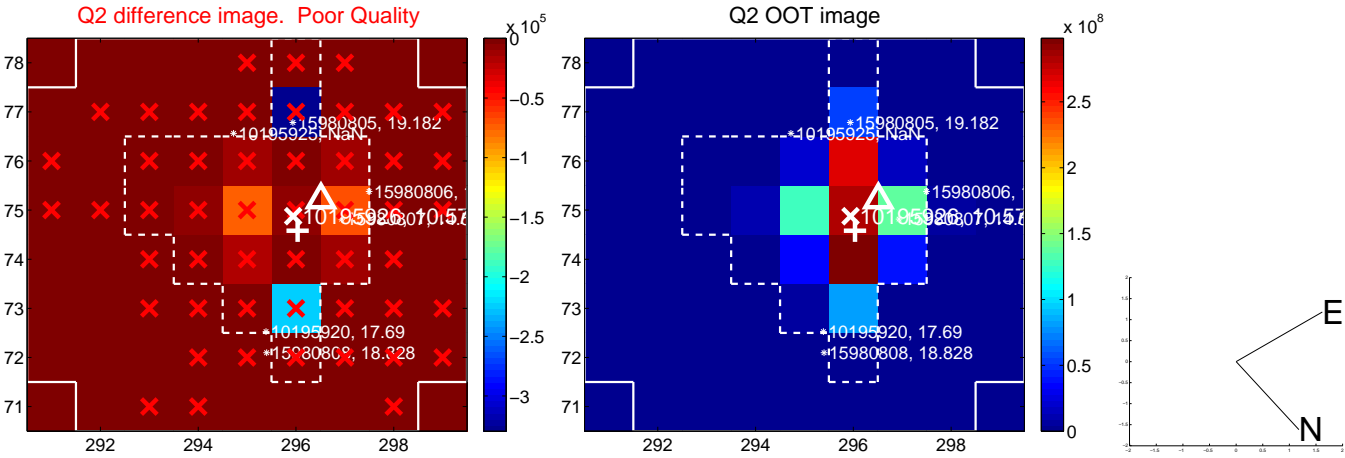
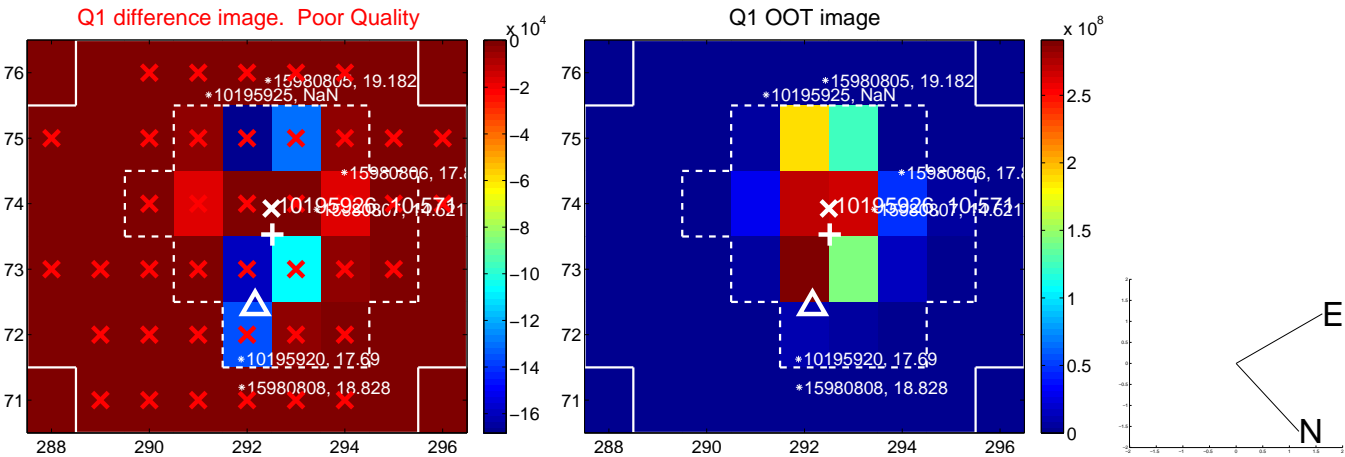
The direct PRF centroid is offset from the target star catalog position by about 1.60 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.938 ± 0.679	1.38	0.231 ± 0.768	-0.909 ± 0.673
PRF-fit source offset from KIC position	0.716 ± 0.933	0.77	-0.438 ± 0.691	0.567 ± 0.698
photometric centroid source offset	1.82 ± 0.99	1.84	0.11 ± 0.86	-1.81 ± 0.99

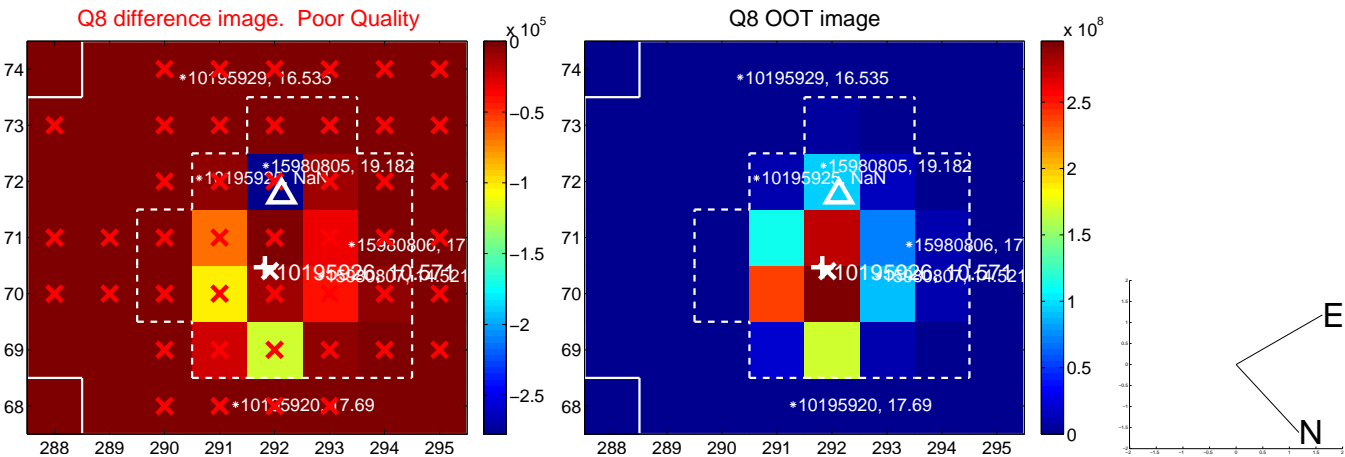
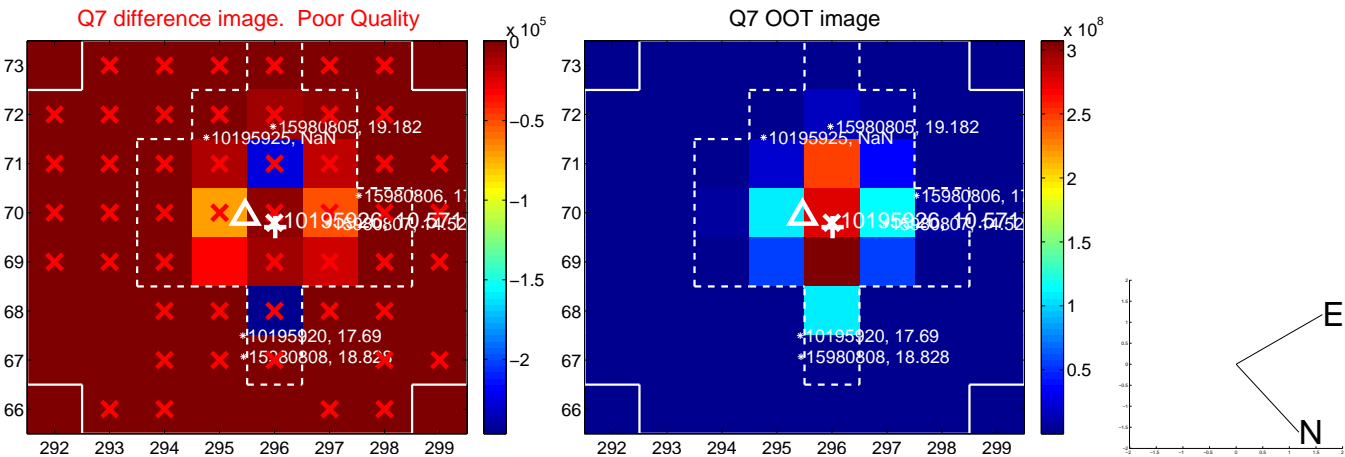
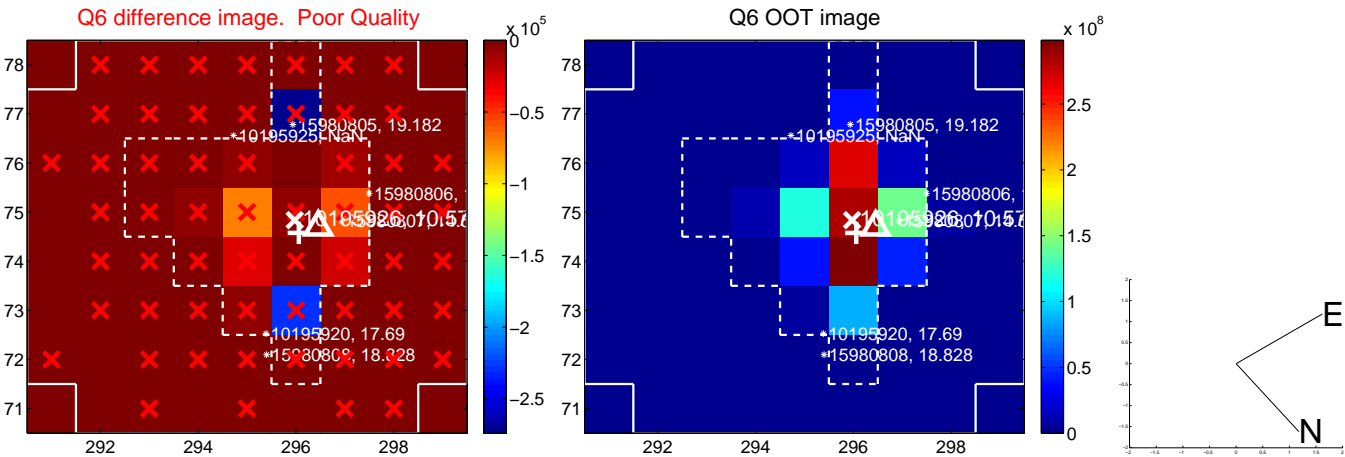
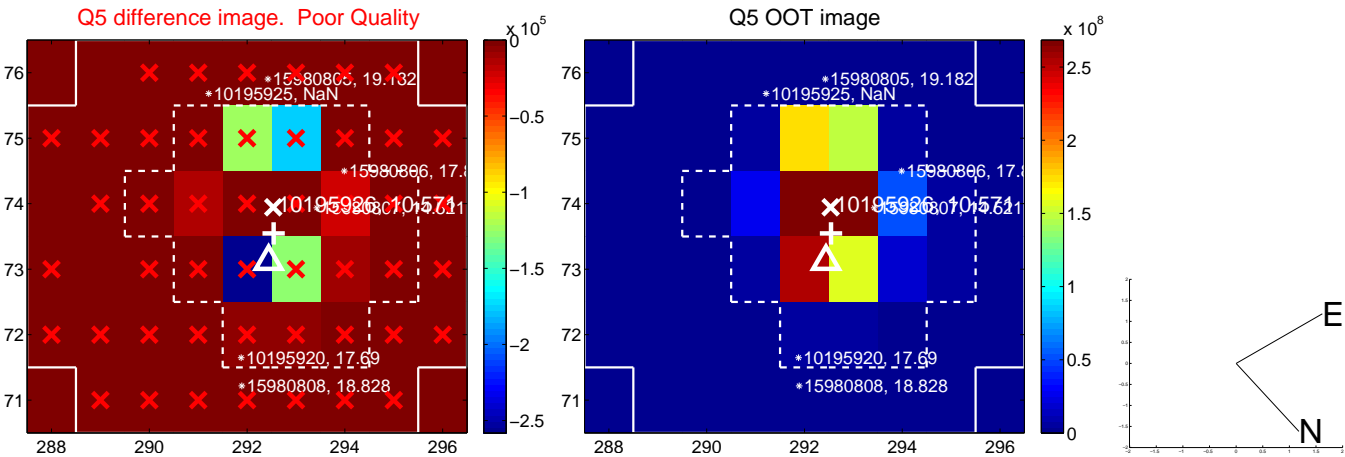


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

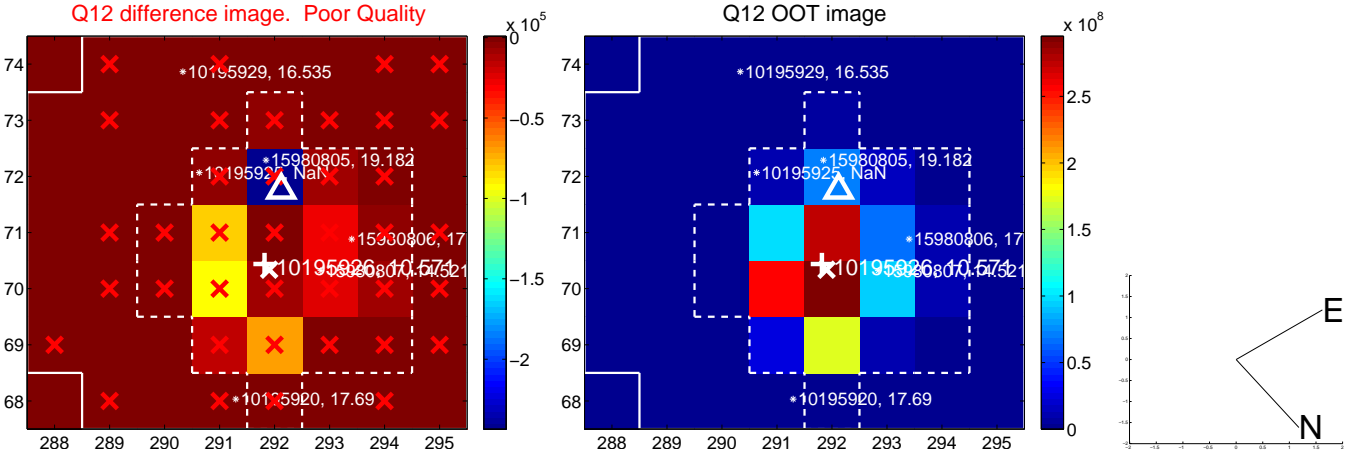
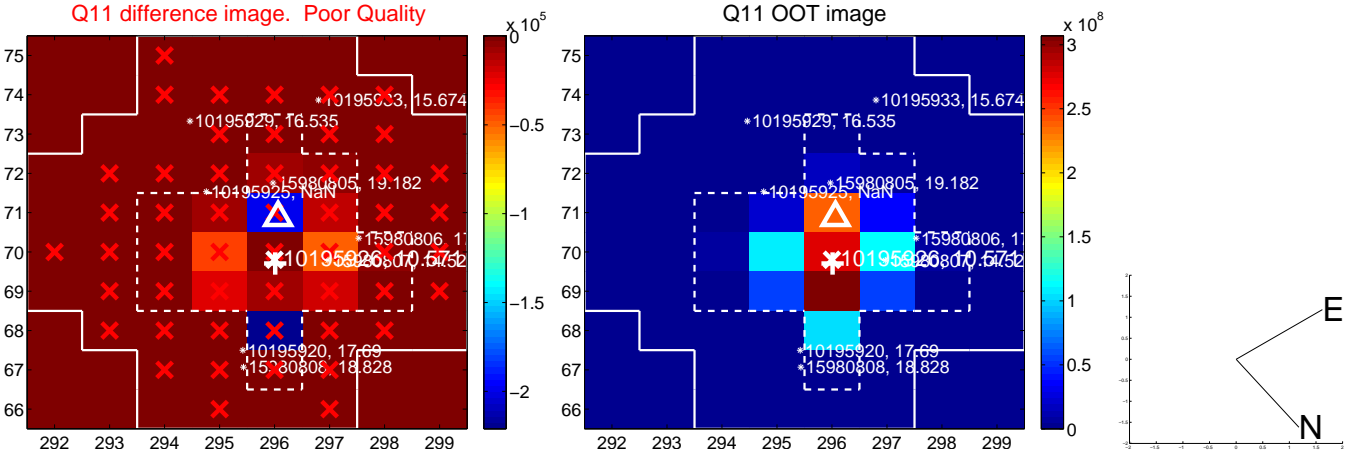
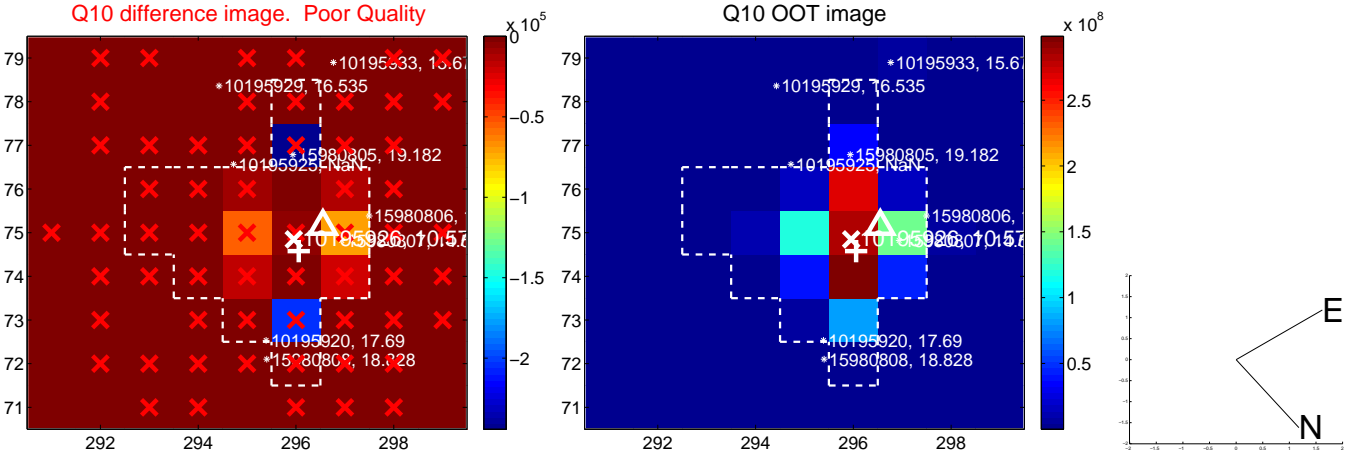
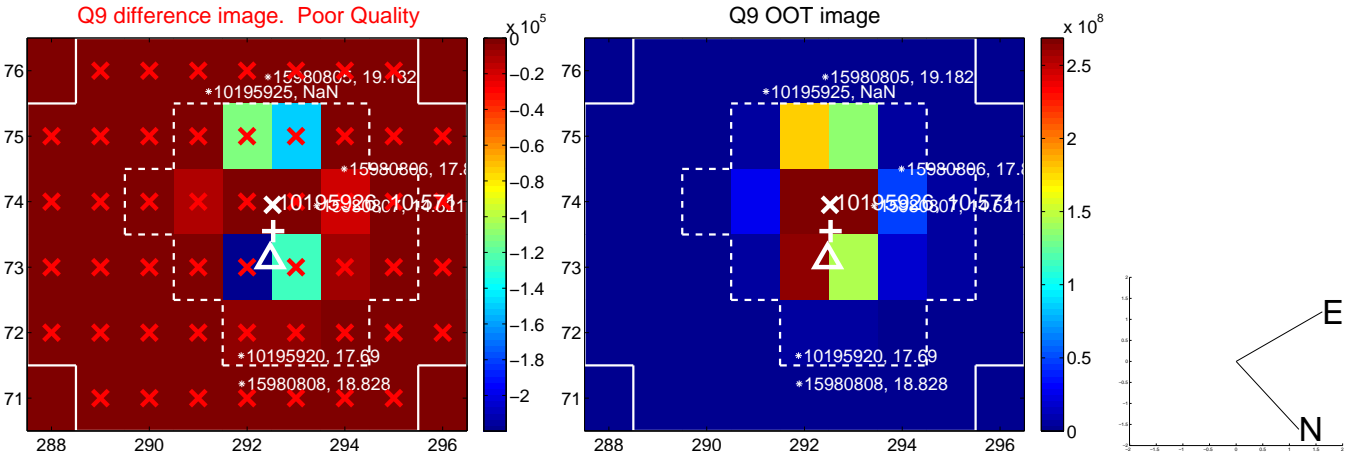
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



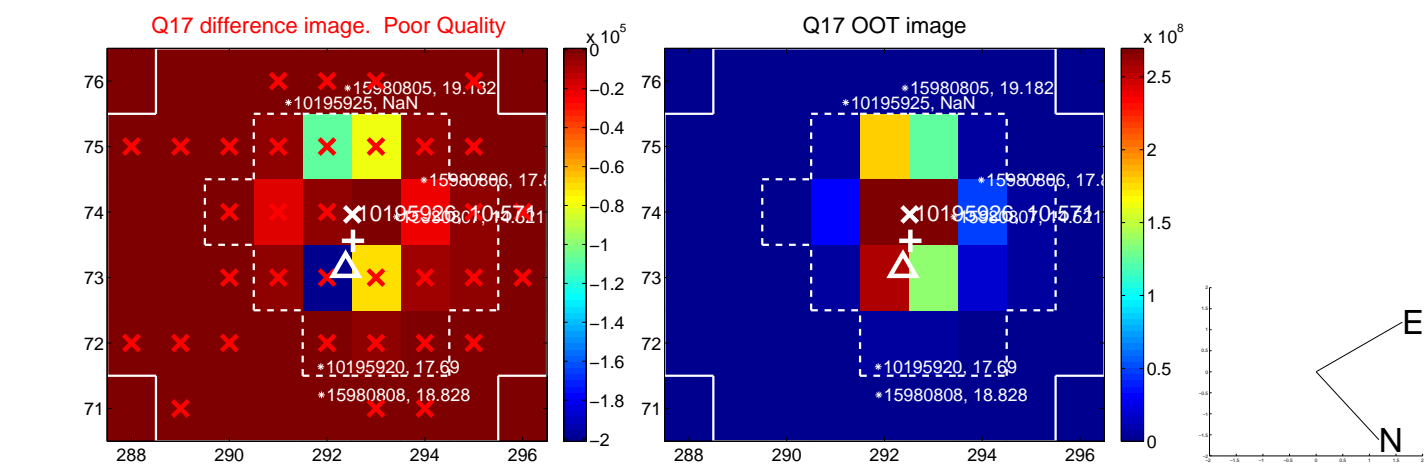
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



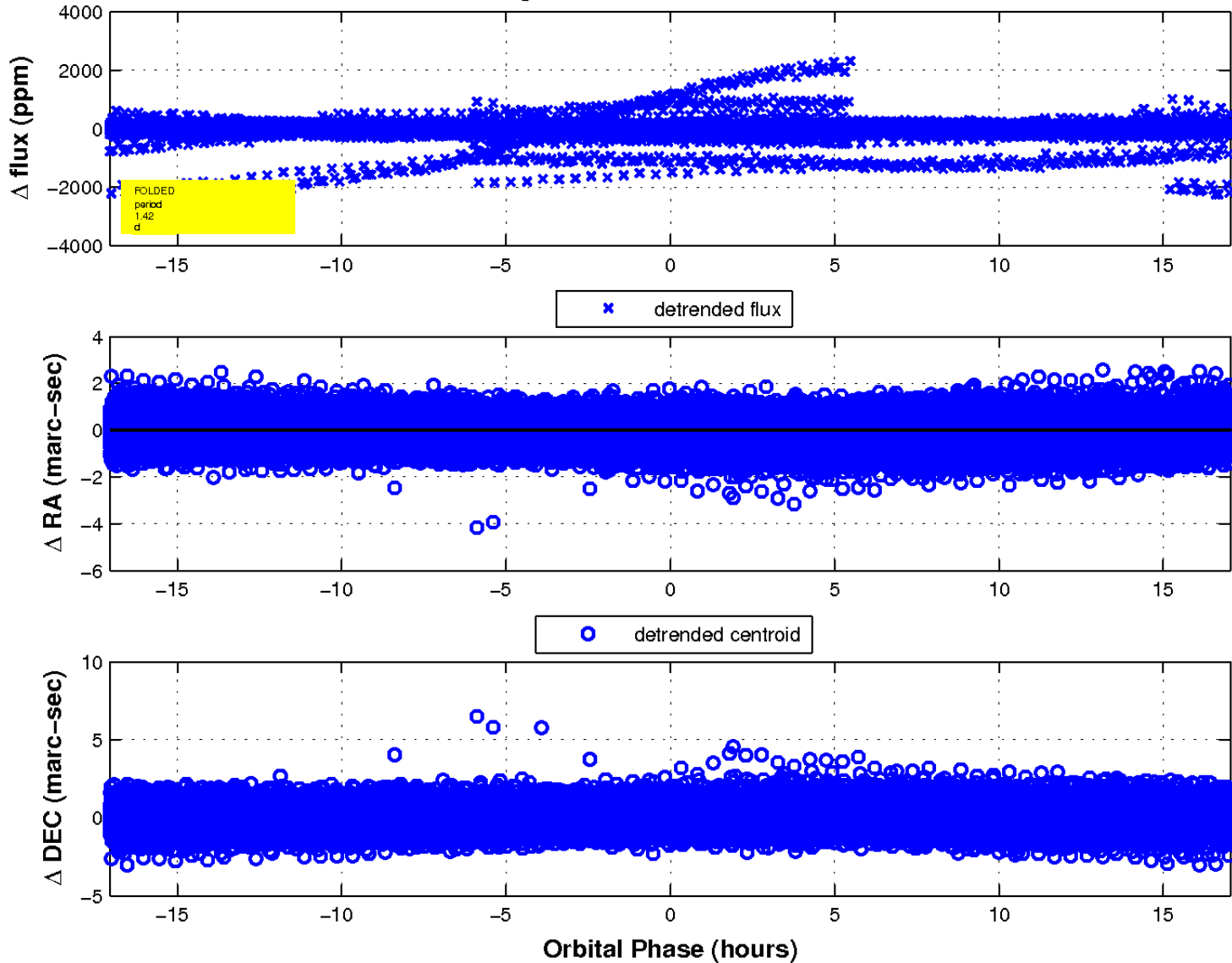
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



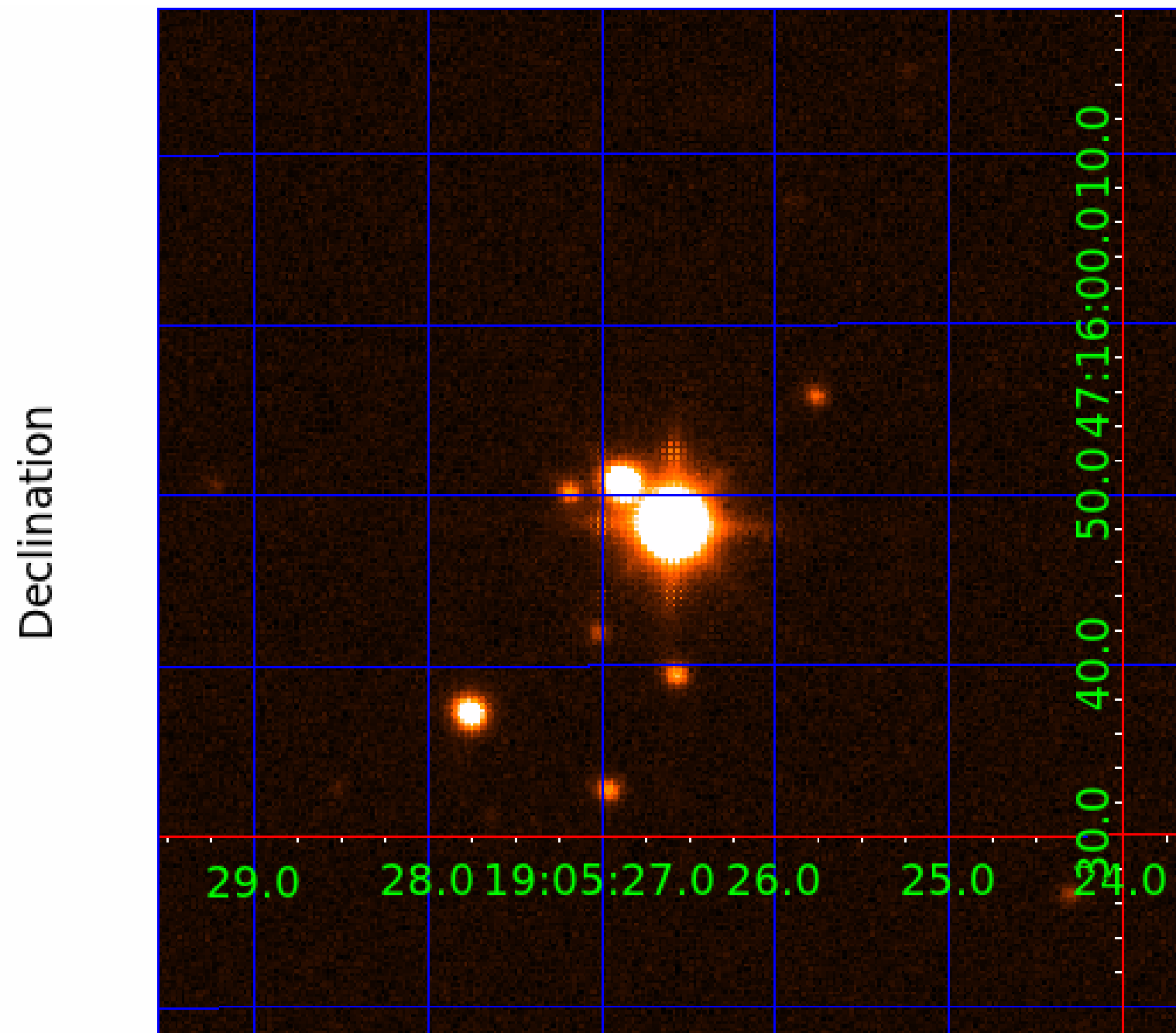
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 5 of 8



UKIRT Image



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

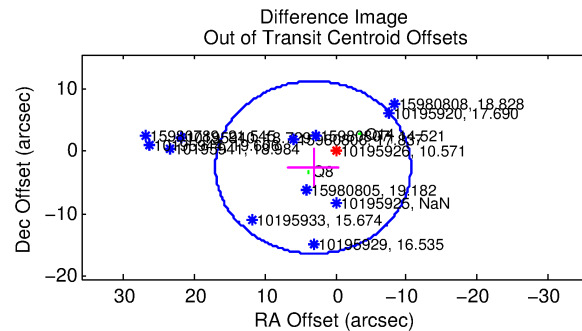
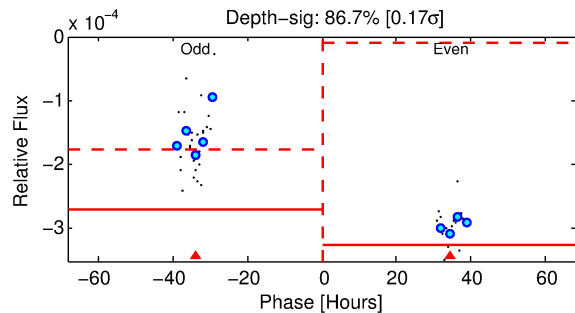
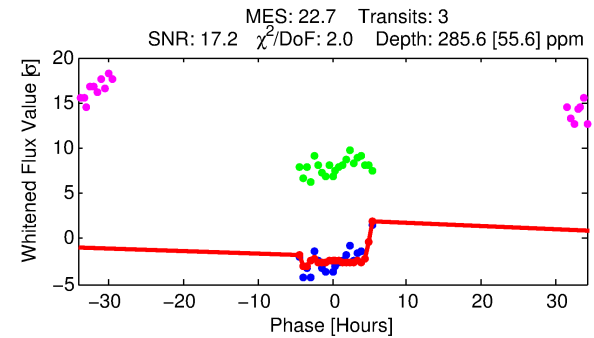
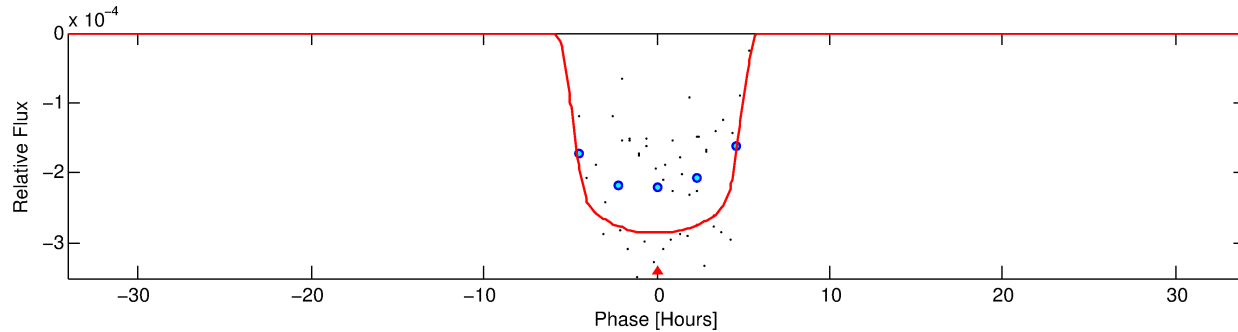
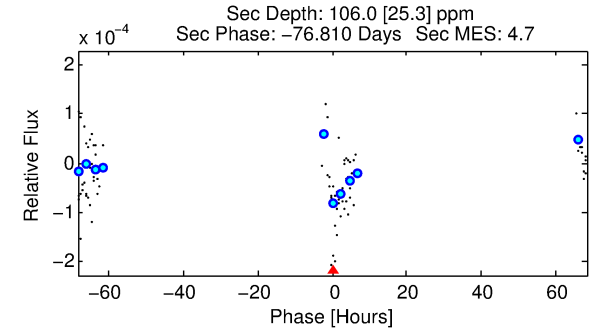
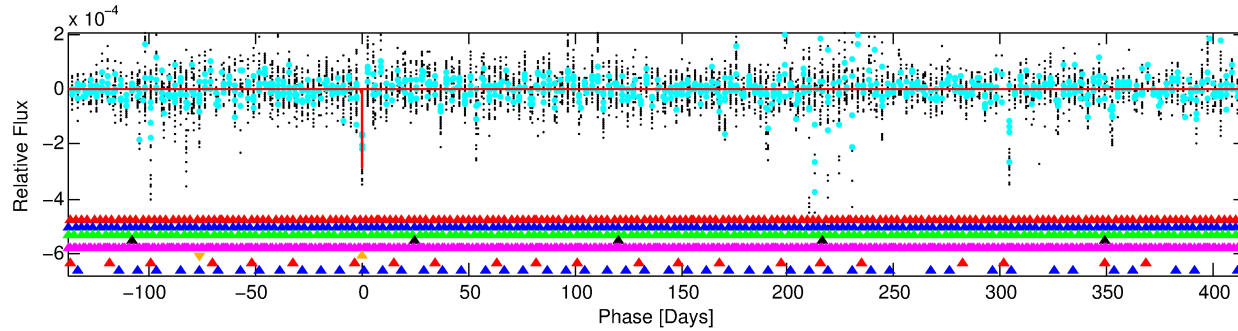
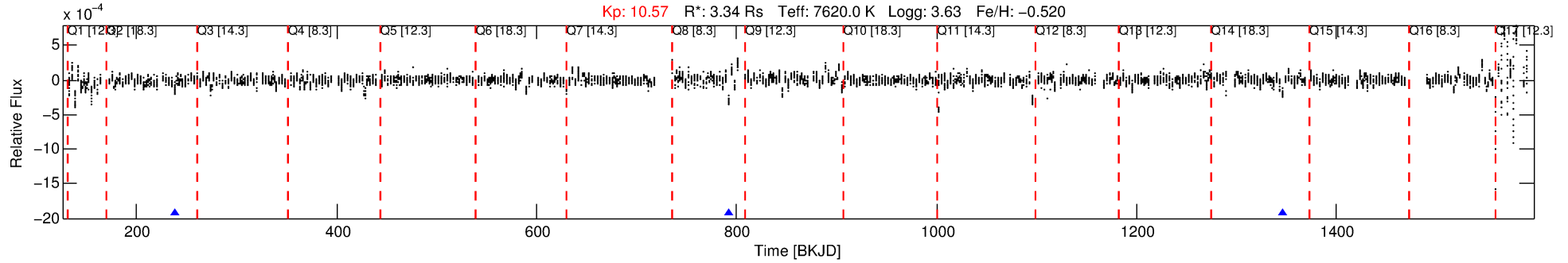
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-06

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 6 of 8 Period: 554.242 d



DV Fit Results:

Period = 554.24160 [0.03759] d
Epoch = 237.8320 [0.0420] BKJD
Rp/R* = 0.0187 [0.0023]
a/R* = 147.32 [58.75]
b = 0.94 [0.03]
Seff = 13.31 [12.63]
Teq = 487 [116] K
Rp = 6.80 [3.78] Re
a = 1.5906 [0.8946] AU
Ag = 3192.65 [3174.20] [1.01σ]
Teffp = 5660 [537] K [9.42σ]

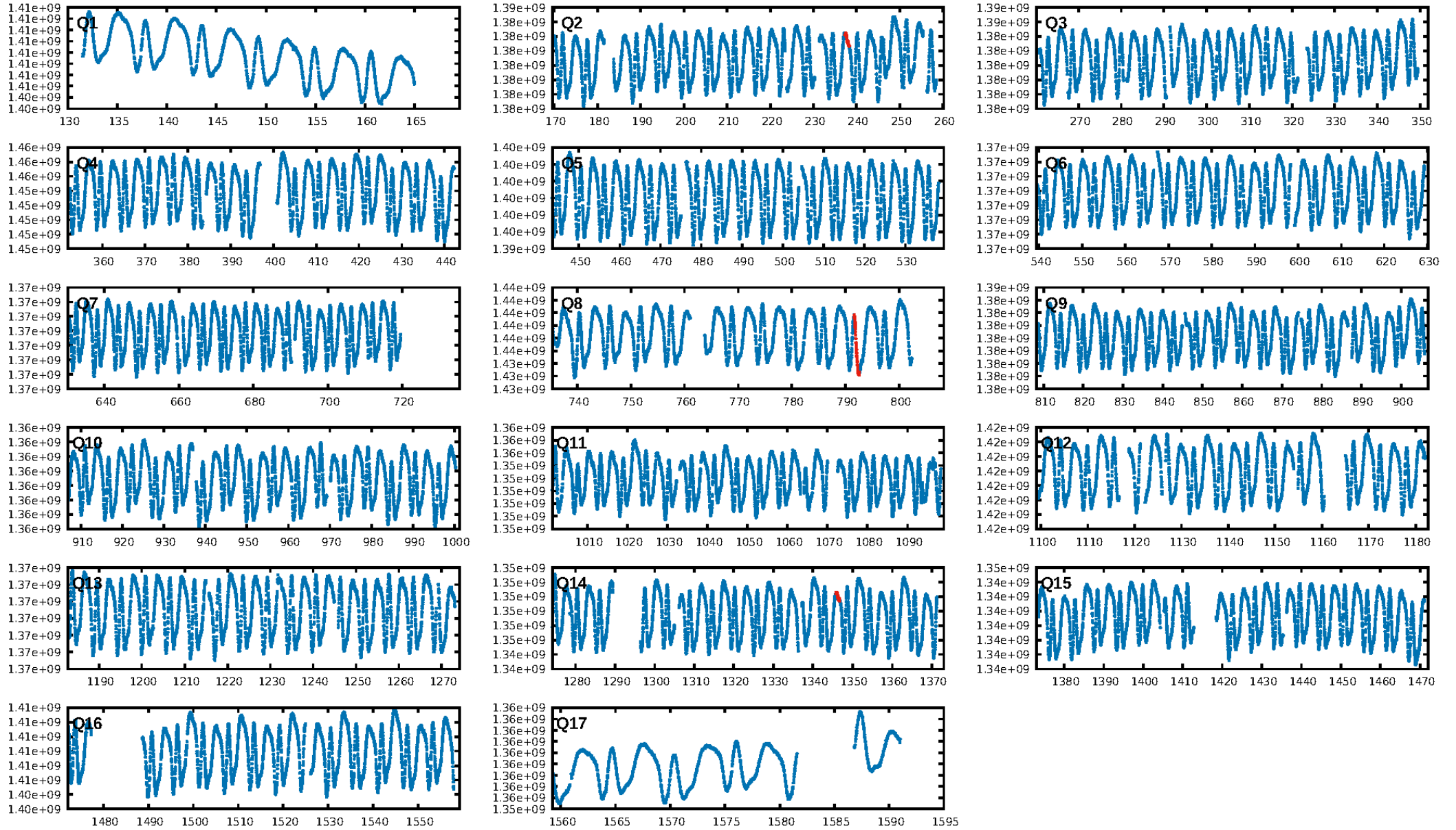
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [388.14σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.2%
ModelChiSquareGof-sig: 50.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.96
Centroid-sig: N/A
Centroid-so: 0.667 arcsec [0.90σ]
OotOffset-rm: 4.108 arcsec [0.89σ]
KicOffset-rm: 4.116 arcsec [1.52σ]
OotOffset-st: 1/0/1/0 [2]
KicOffset-st: 1/0/1/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.00 [0/3]

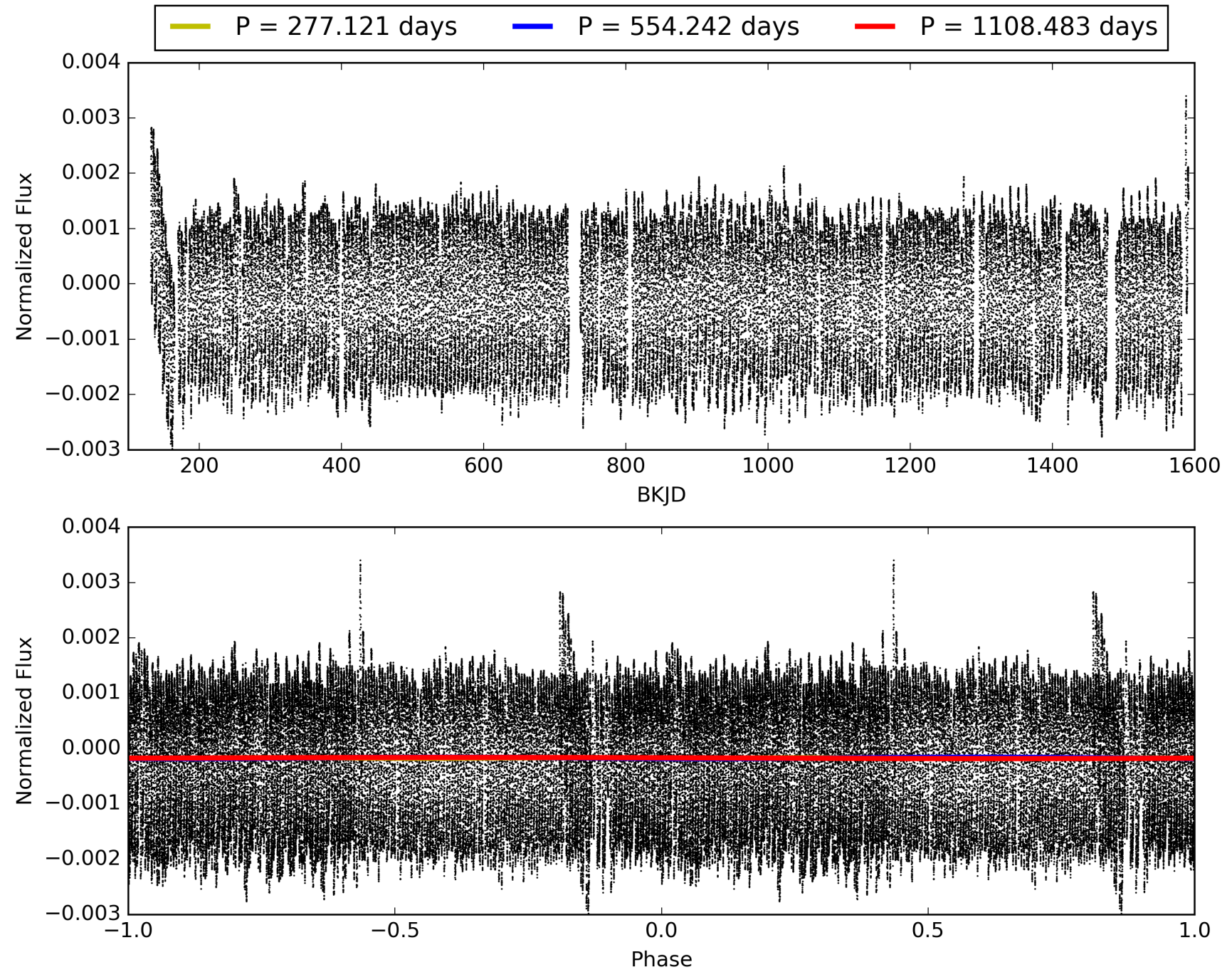
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:26 Z

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

TCE 010195926-06, PDC Light Curves

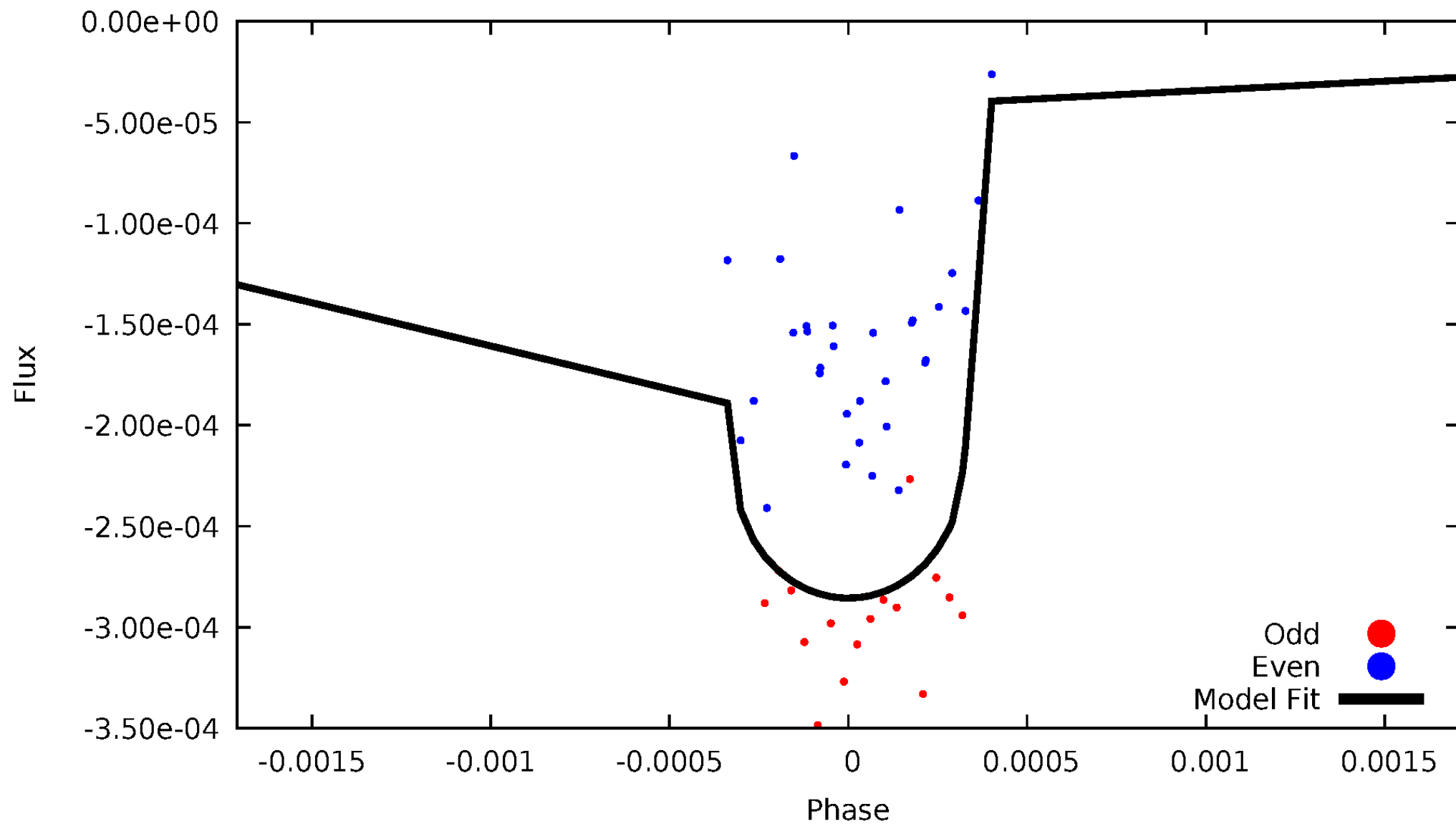


TCE 010195926-06



DV Odd/Even

TCE 010195926-06

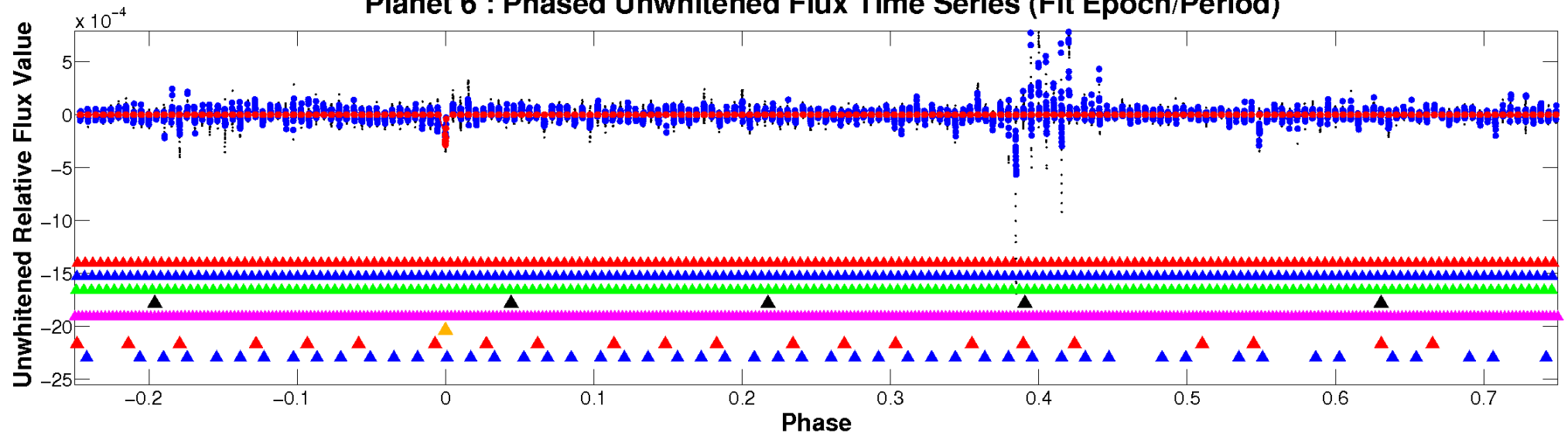


ALT Odd/Even

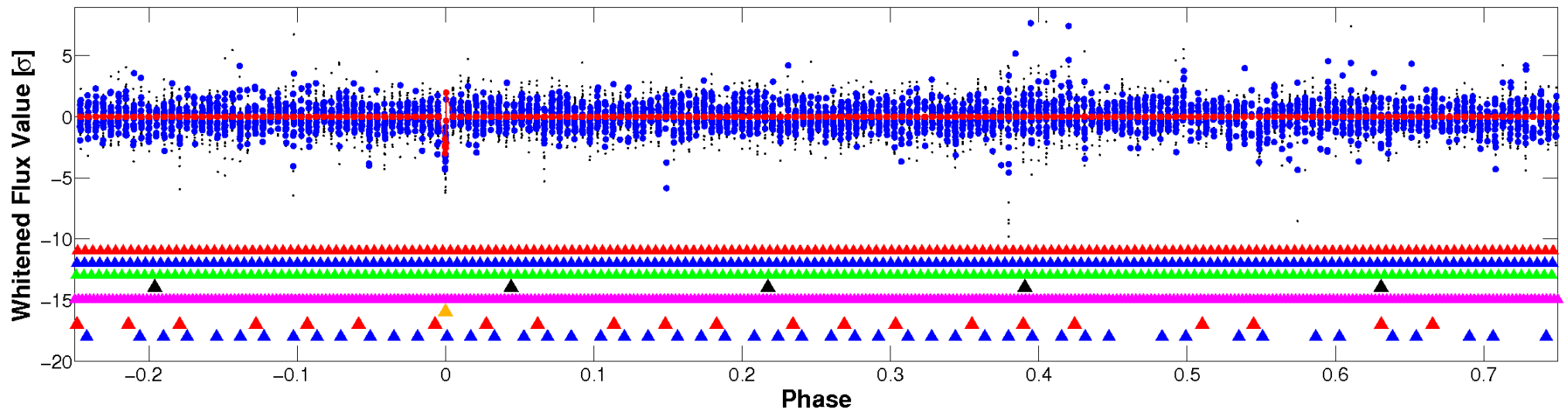
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

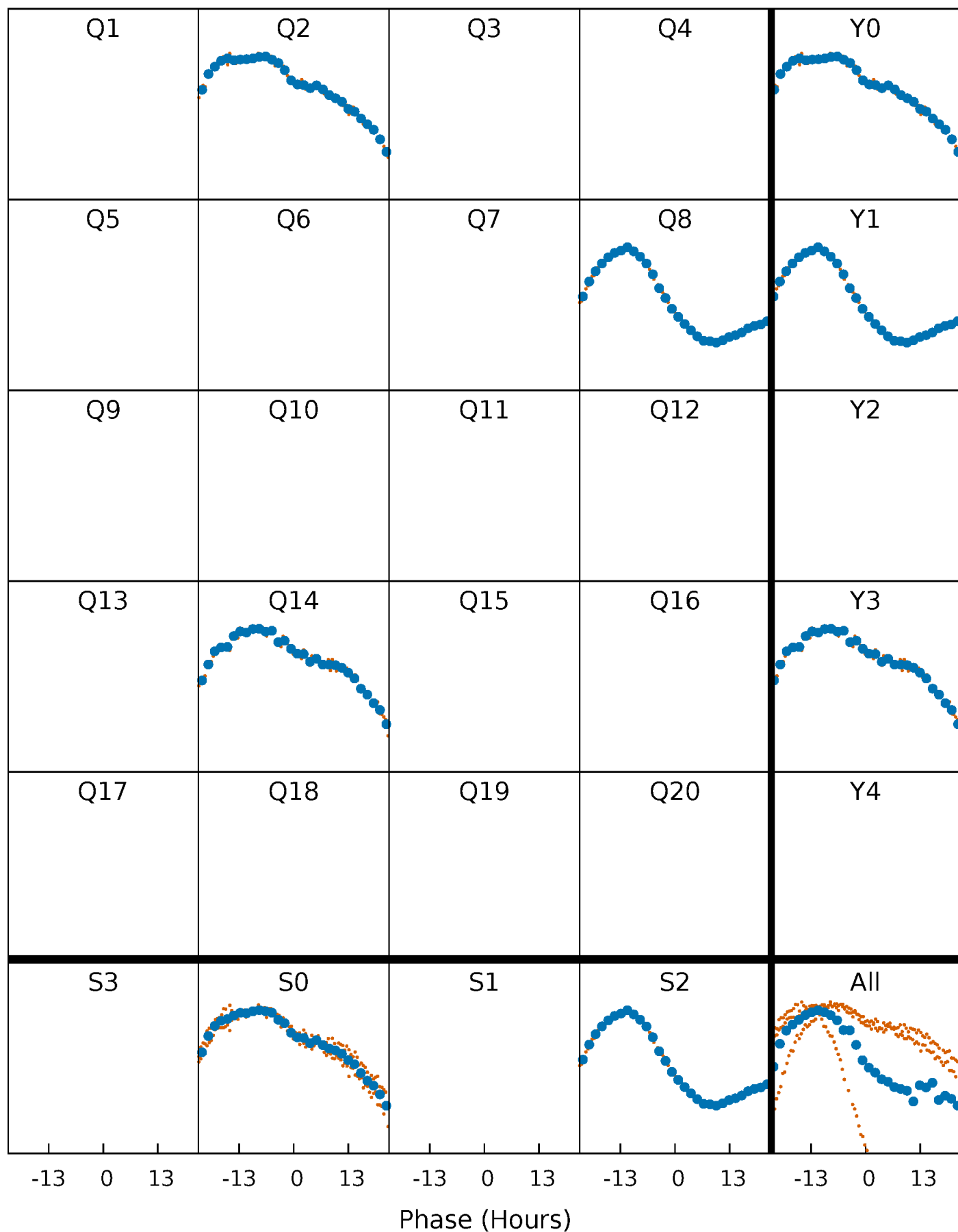


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



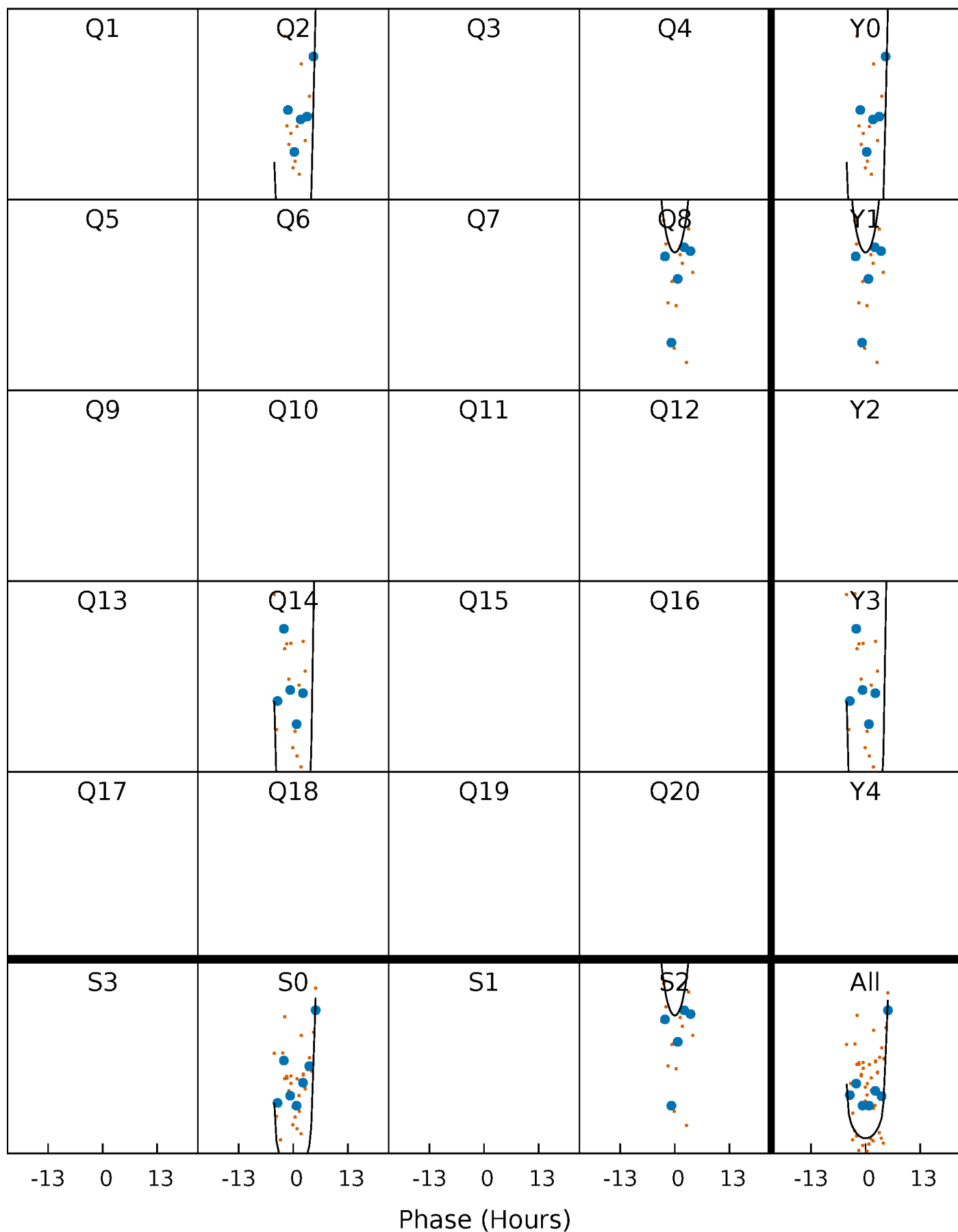
PDC Quarter-Phased Transit Curves

TCE 010195926-06 P=554.241600 Days $T_0=237.832049$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 010195926-06 $P=554.241600$ Days $T_0=237.832049$ (BKJD)

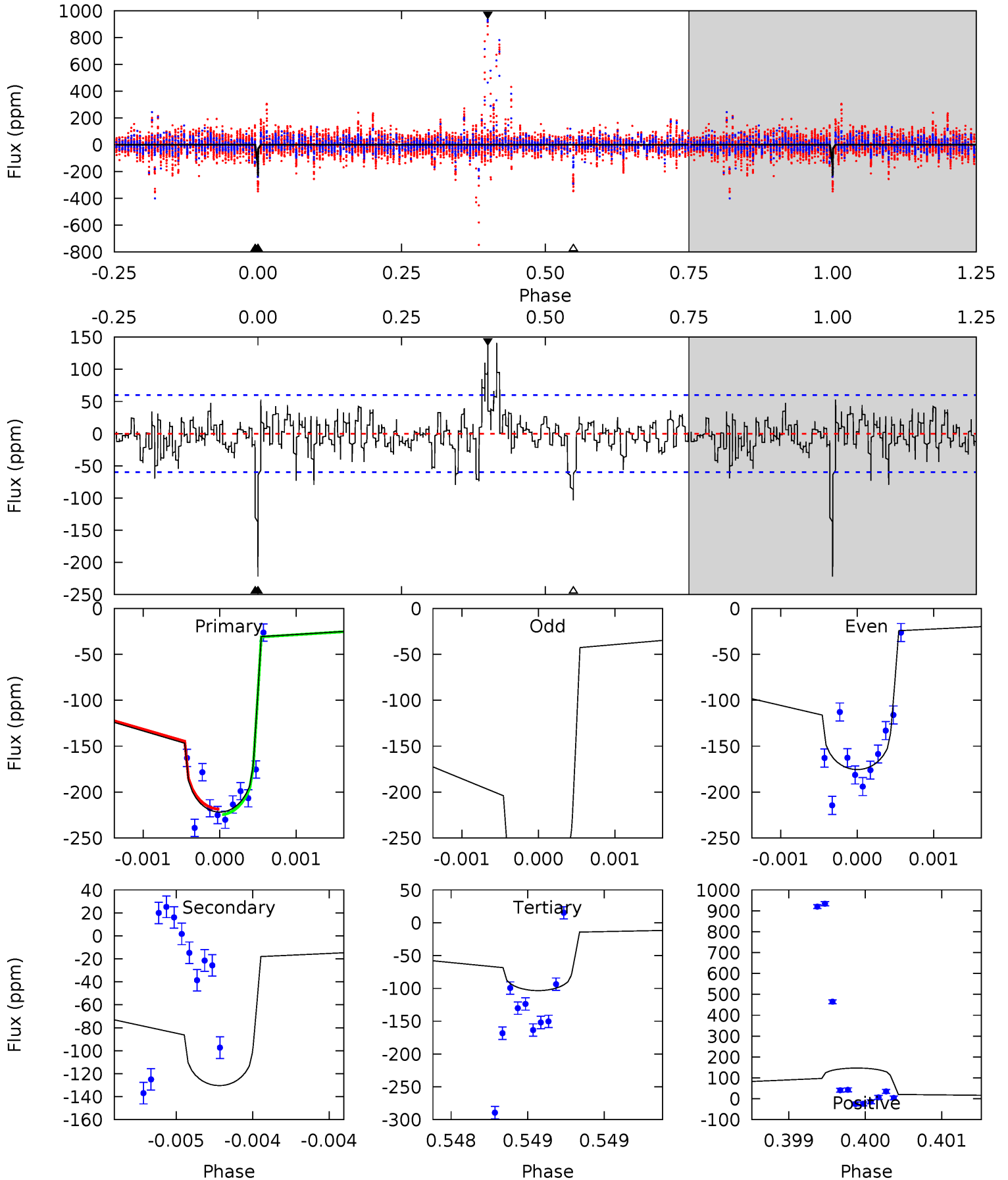


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

010195926-06, P = 554.241600 Days, E = 237.832049 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.4	12.0	9.50	13.5	5.50	3.37	2.42	10.9	6.87	2.48	-1.52	5.68	1.15	0.40	0.28



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-130 ± 11	$6.36^{+1.29}_{-1.80}$	658^{+48}_{-89}	5825^{+465}_{-369}	4486^{+3816}_{-1328}
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 $A_{obs} \gg 1.0$

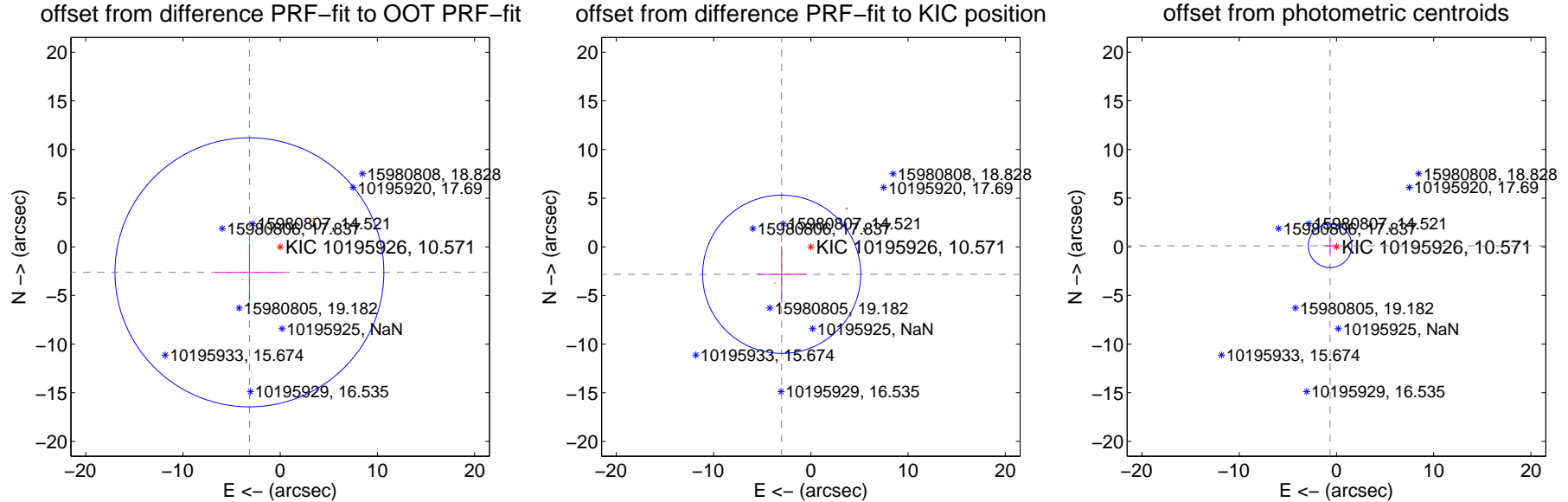
DV Centroid Data

Supplemental centroid analysis for 010195926-06. **Kepler magnitude: 10.57.** Transit SNR 17.16

There are 0 quarters with good PRF difference image offsets

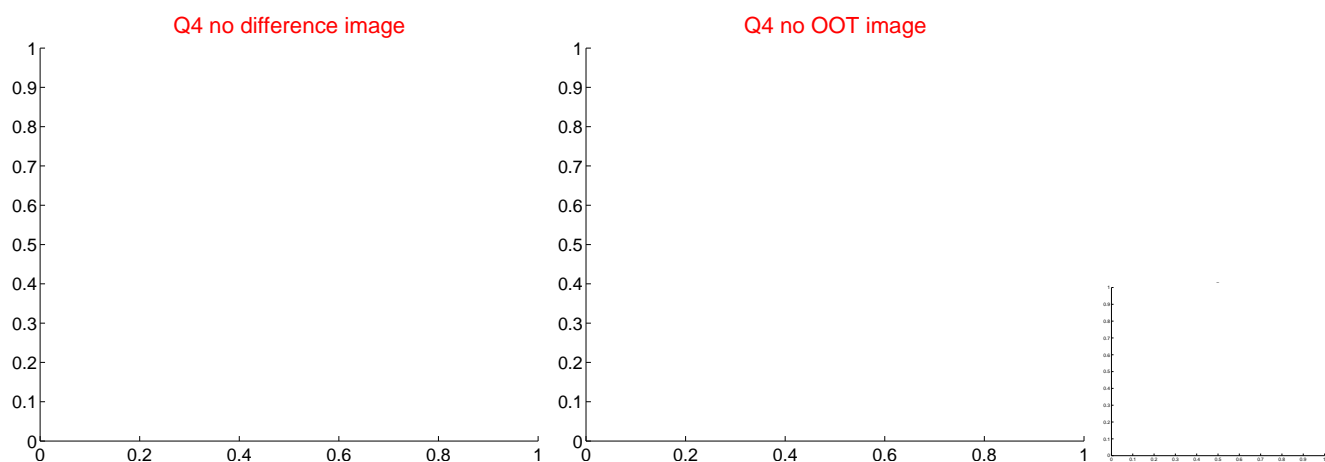
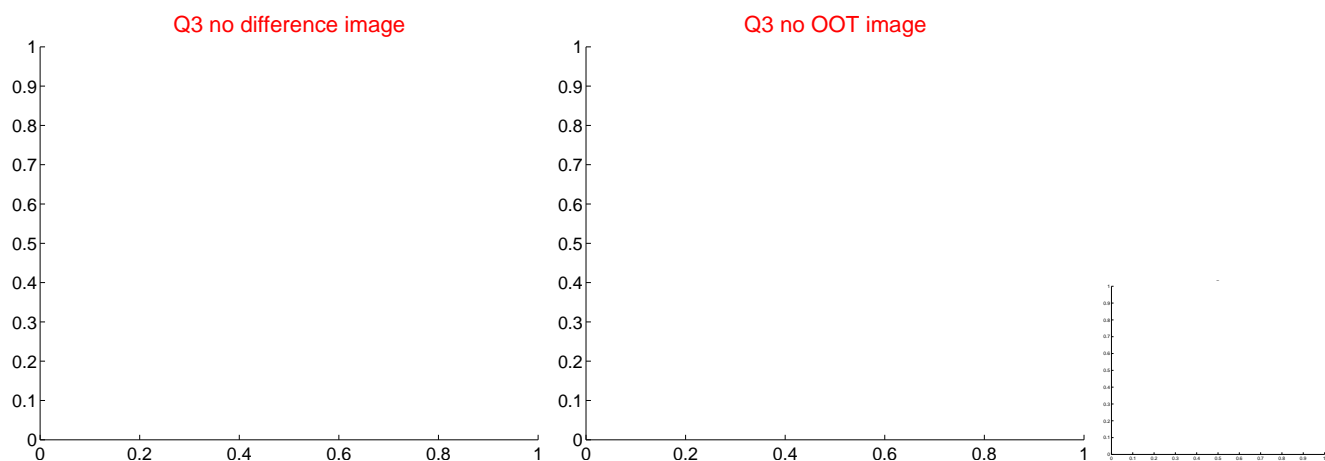
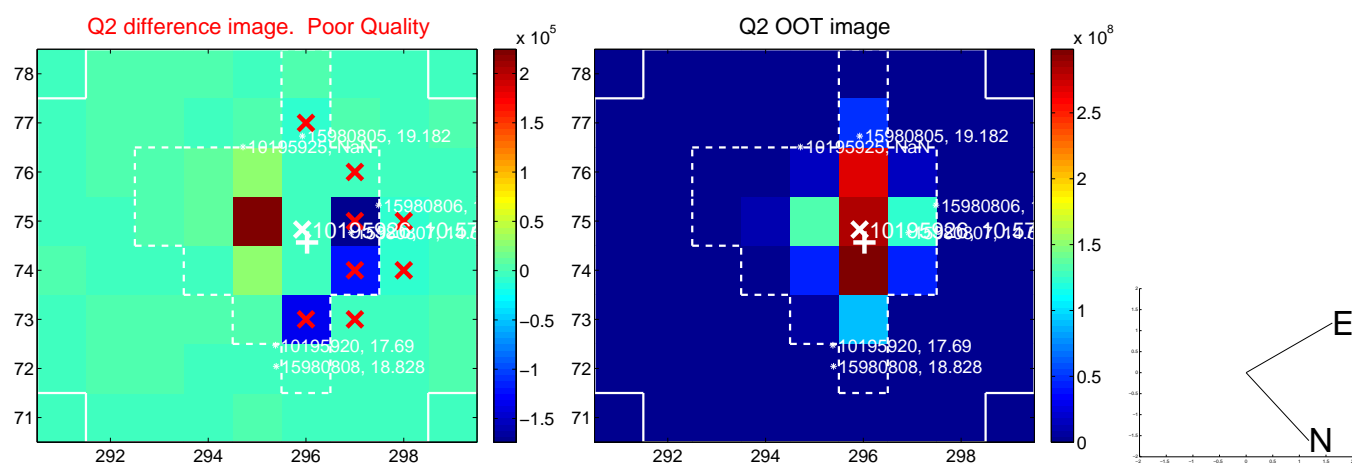
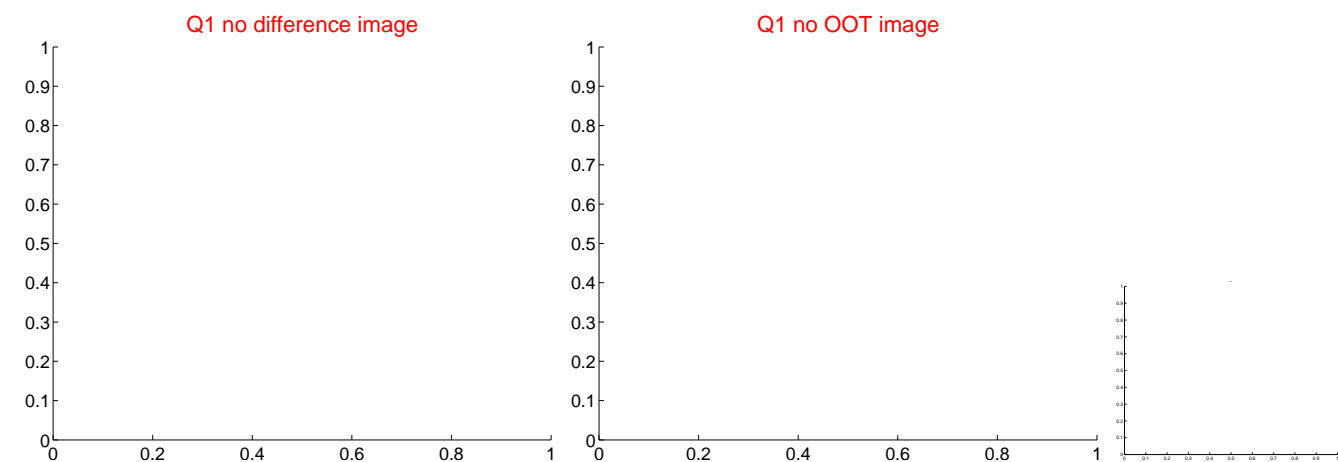
The direct PRF centroid is offset from the target star catalog position by about 1.06 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.108 ± 4.608	0.89	3.165 ± 3.502	-2.619 ± 2.996
PRF-fit source offset from KIC position	4.116 ± 2.710	1.52	2.997 ± 2.539	-2.821 ± 2.891
photometric centroid source offset	0.67 ± 0.74	0.90	0.66 ± 0.74	0.10 ± 0.83

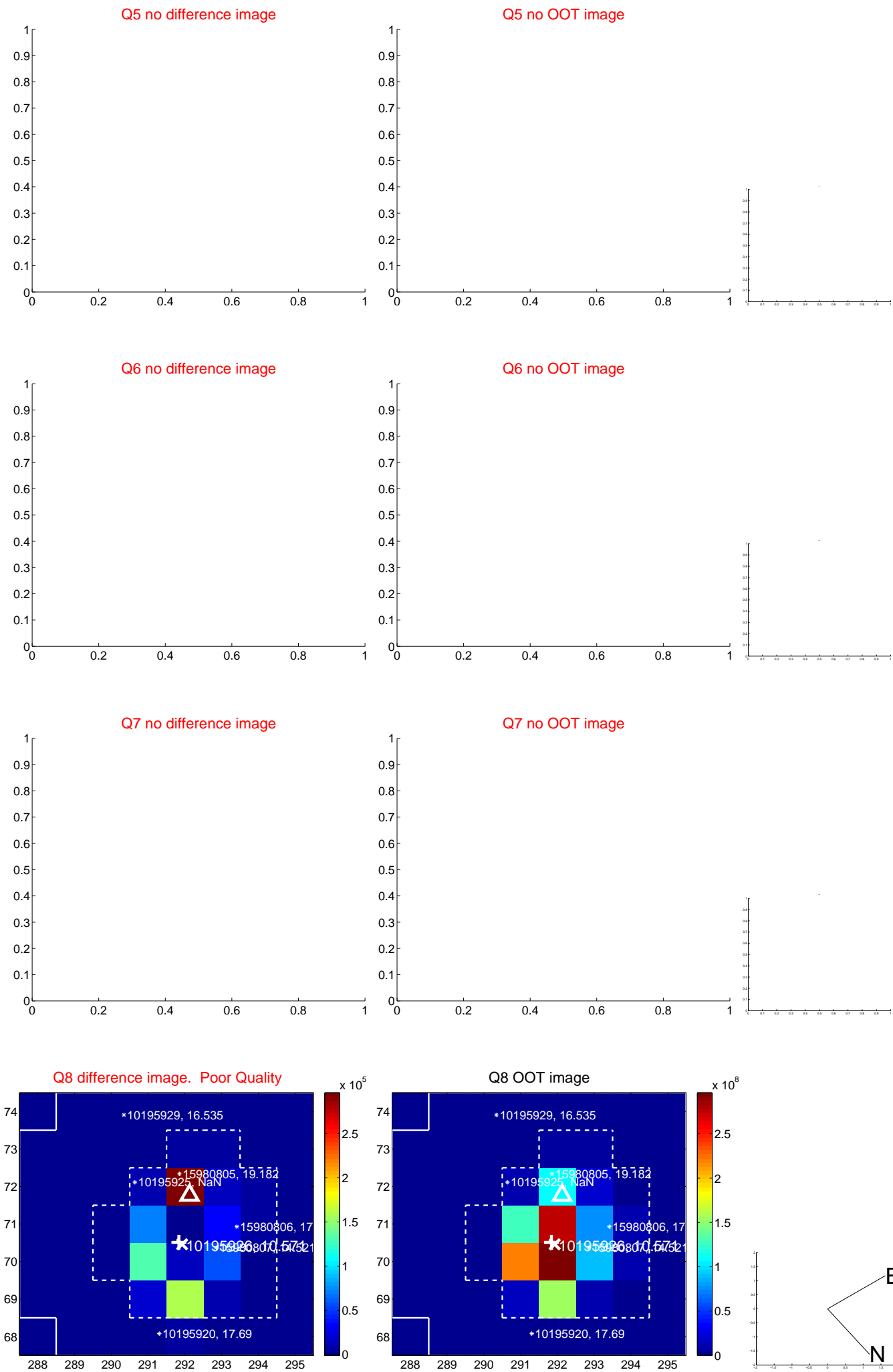


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

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



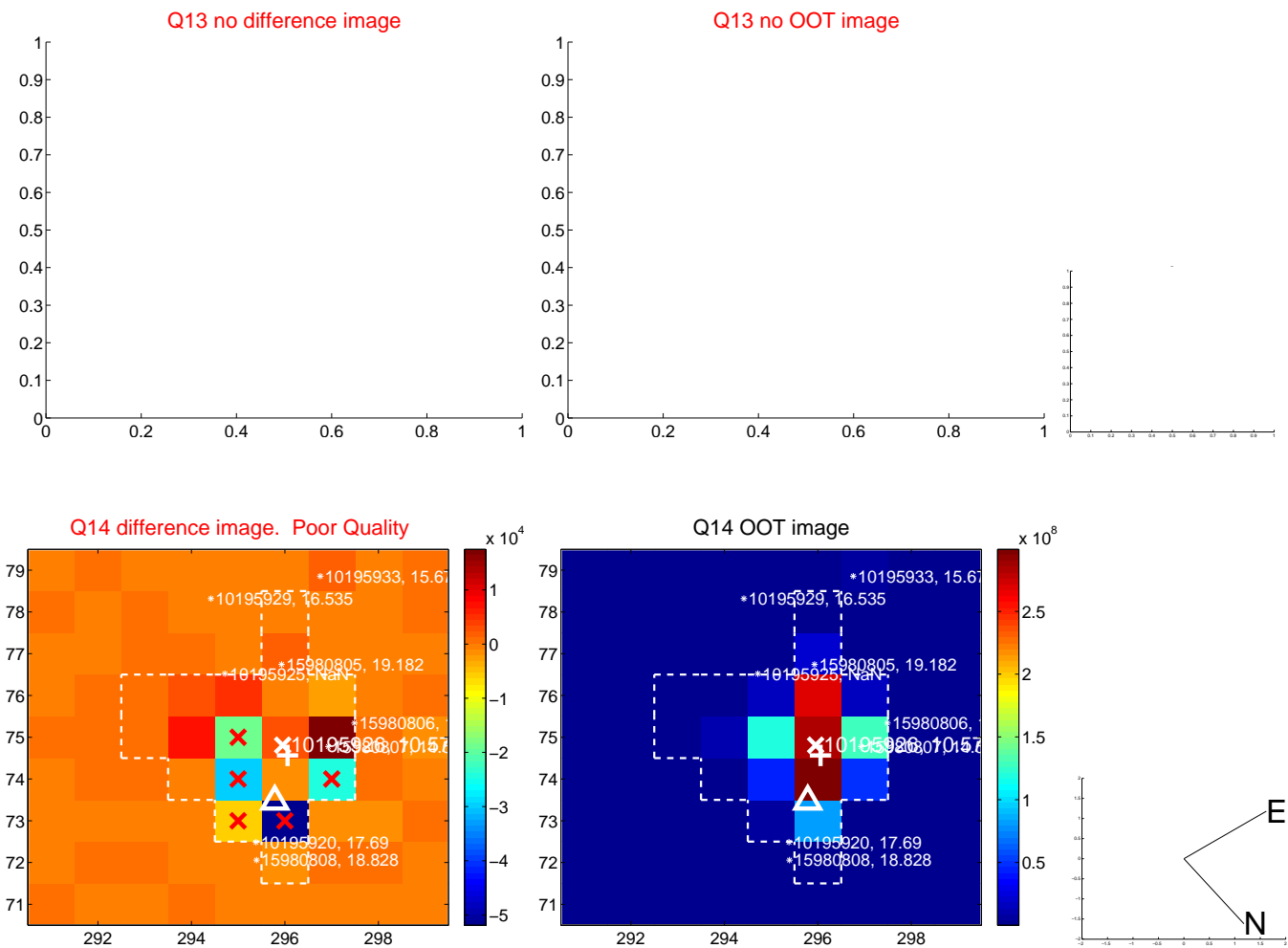
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



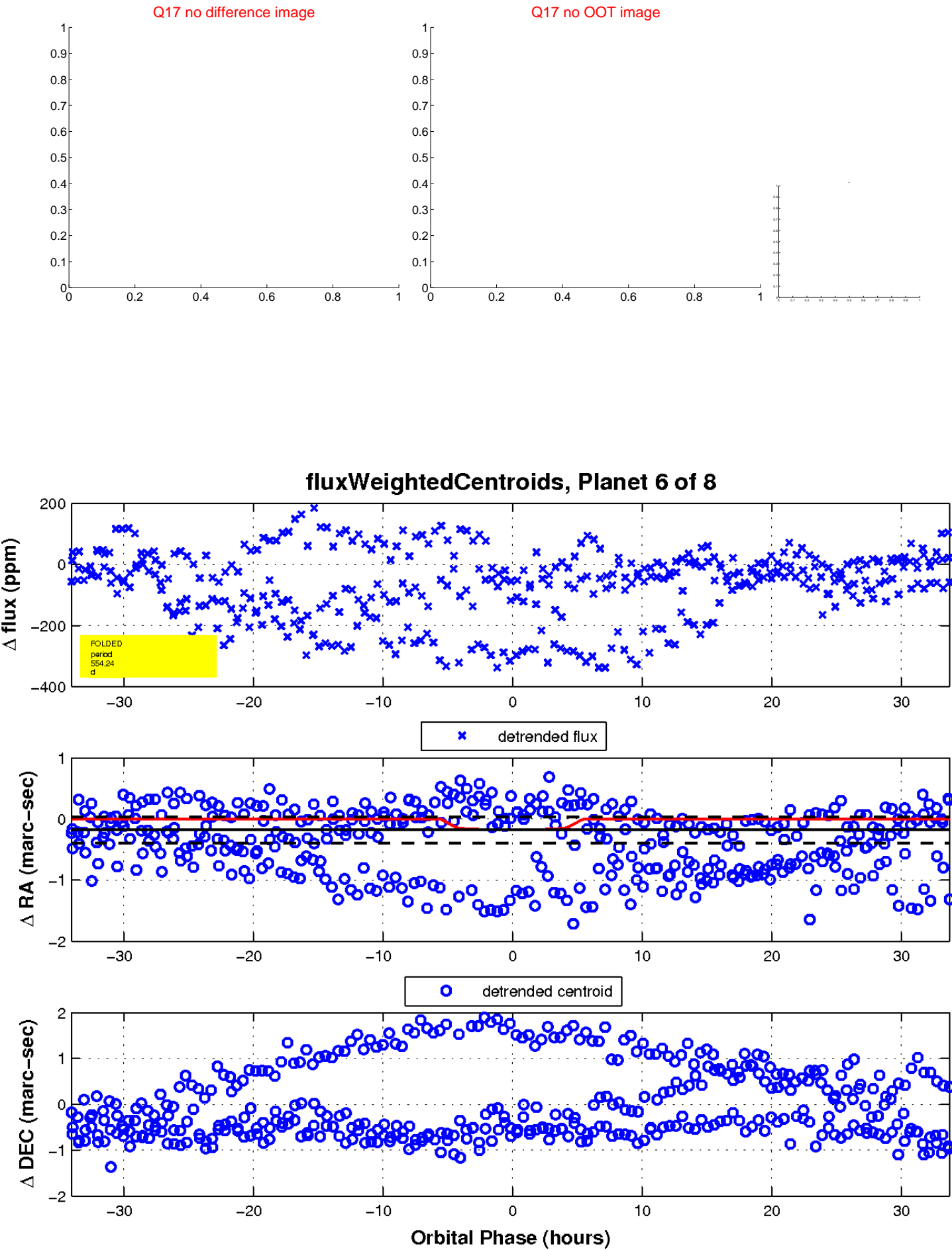
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

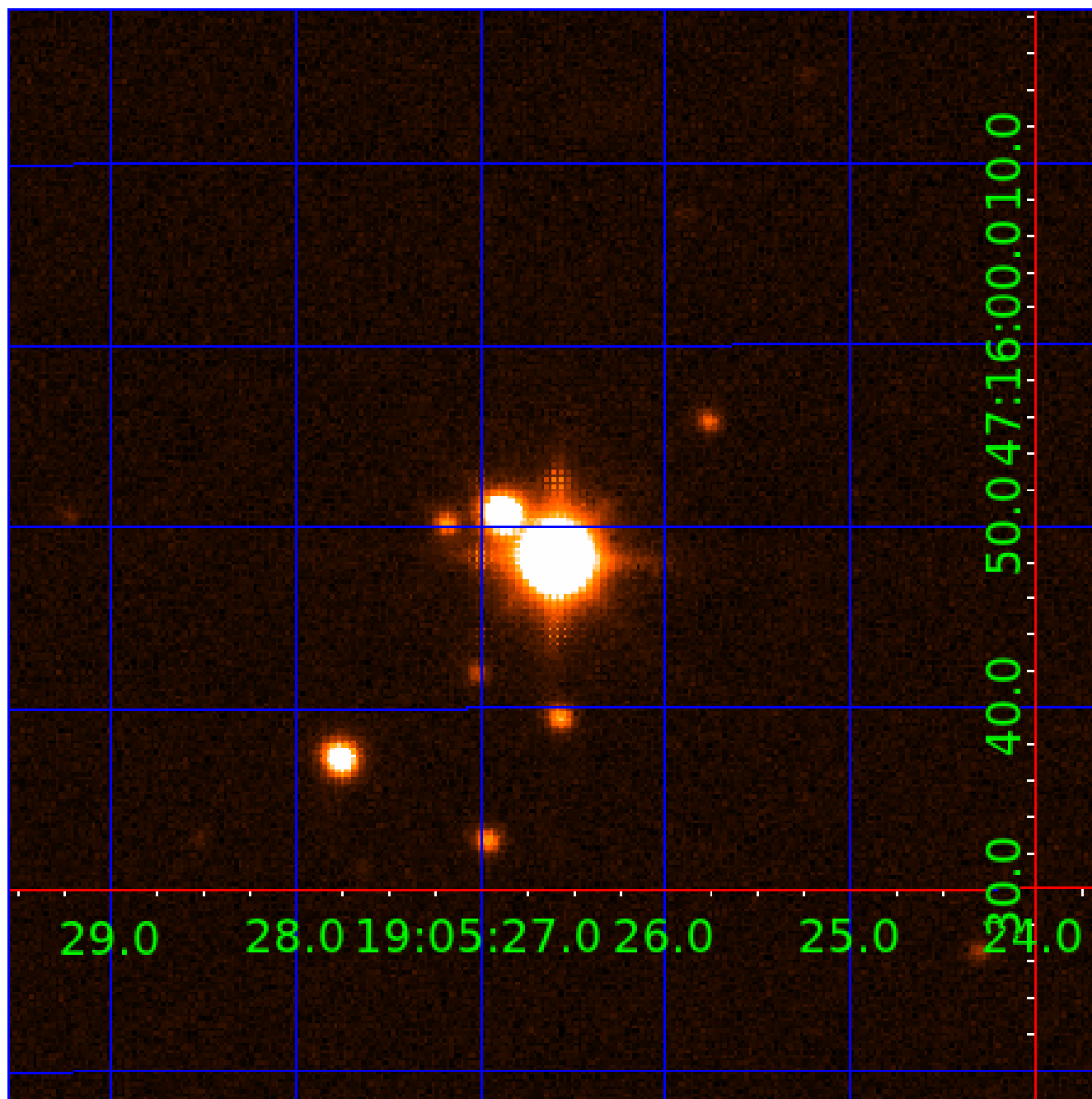


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
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010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

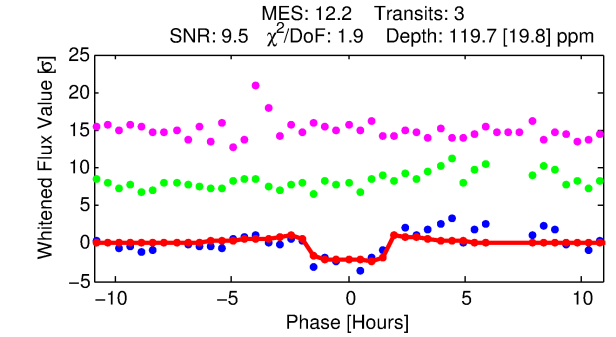
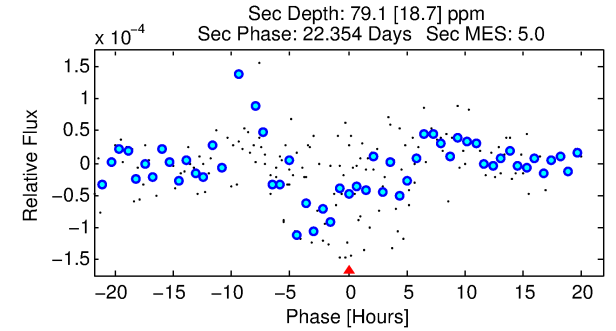
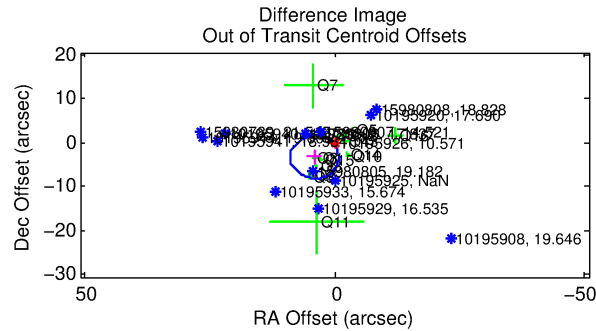
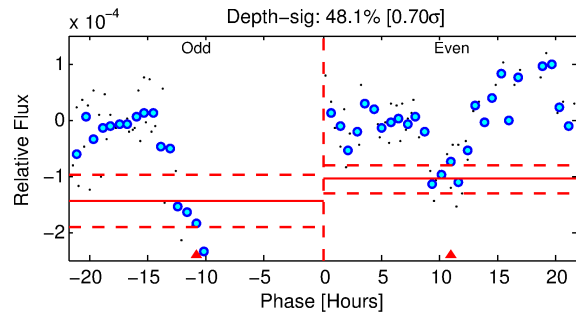
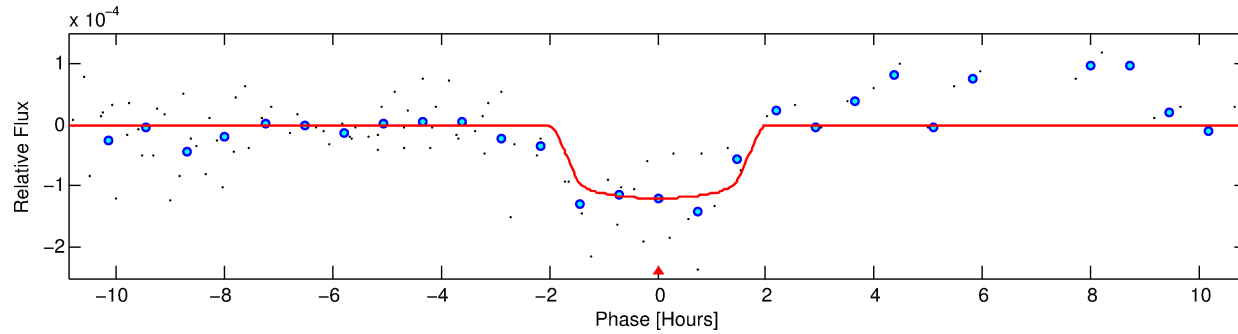
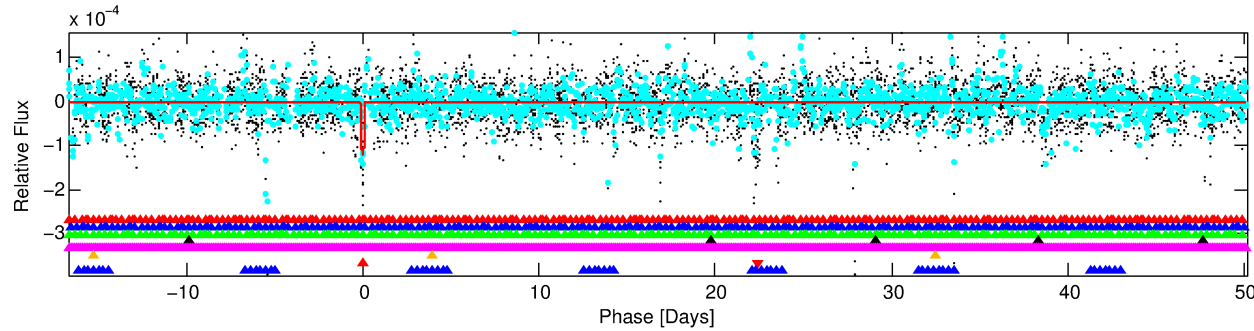
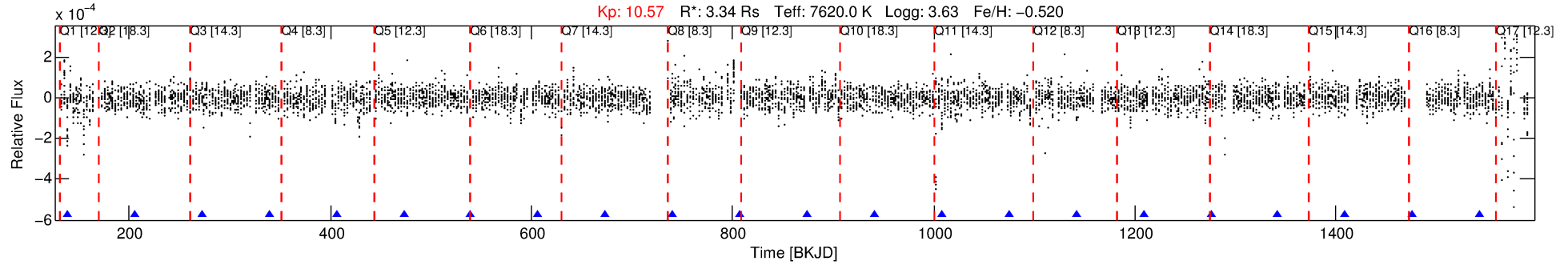
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-07

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 7 of 8 Period: 66.883 d



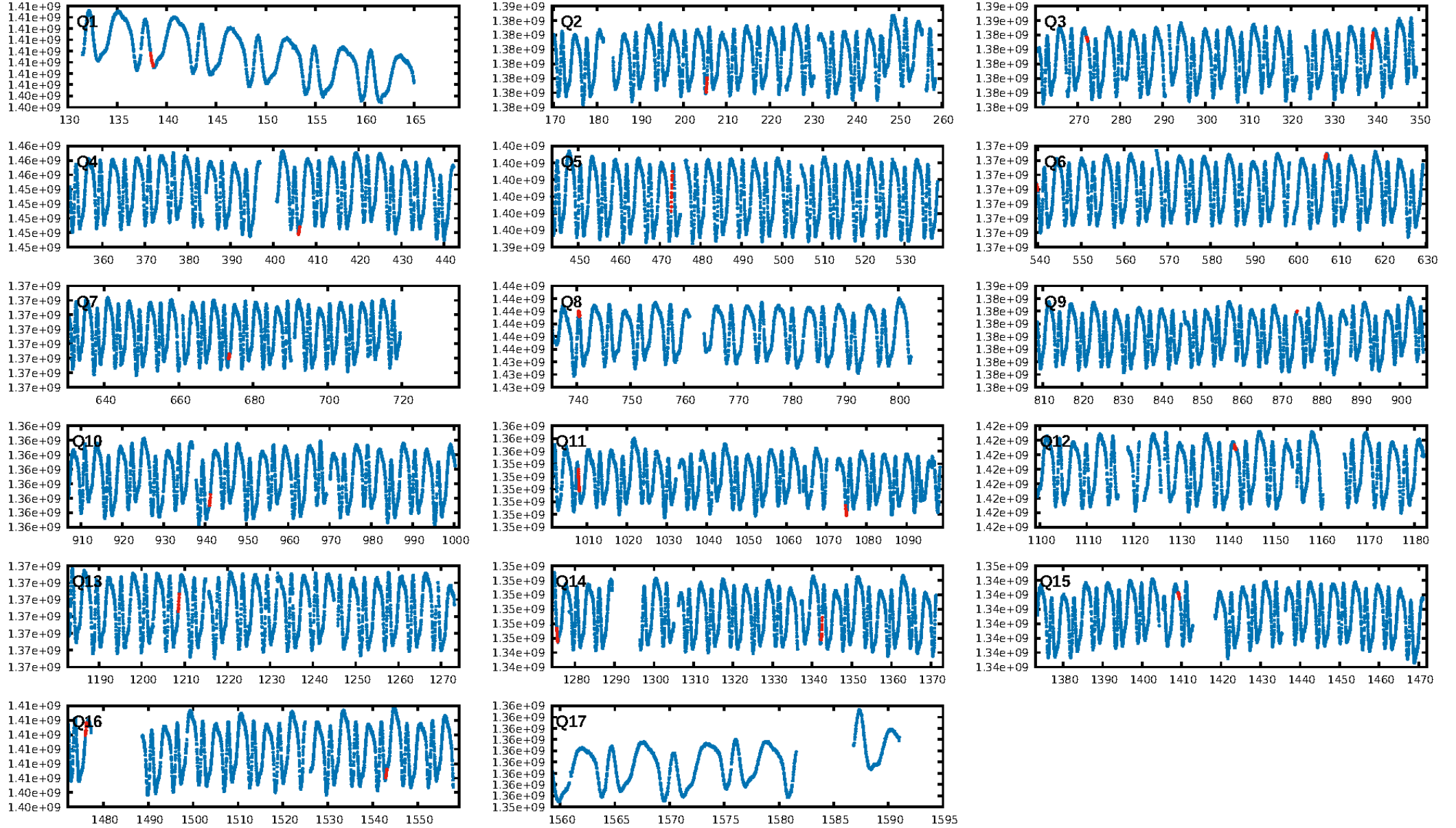
DV Fit Results:

Period = 66.88288 [0.00090] d
Epoch = 138.5114 [0.0116] BKJD
 $R_p/R^* = 0.0116$ [0.0086]
 $a/R^* = 65.26$ [296.99]
 $b = 0.90$ [0.98]
 $\text{Seff} = 223.21$ [211.81]
 $T_{\text{eq}} = 986$ [234] K
 $R_p = 4.24$ [3.88] R_e
 $a = 0.3884$ [0.2185] AU
 $A_g = 365.09$ [642.87] [0.57 σ]
 $T_{\text{effp}} = 6661$ [2501] K [2.26 σ]

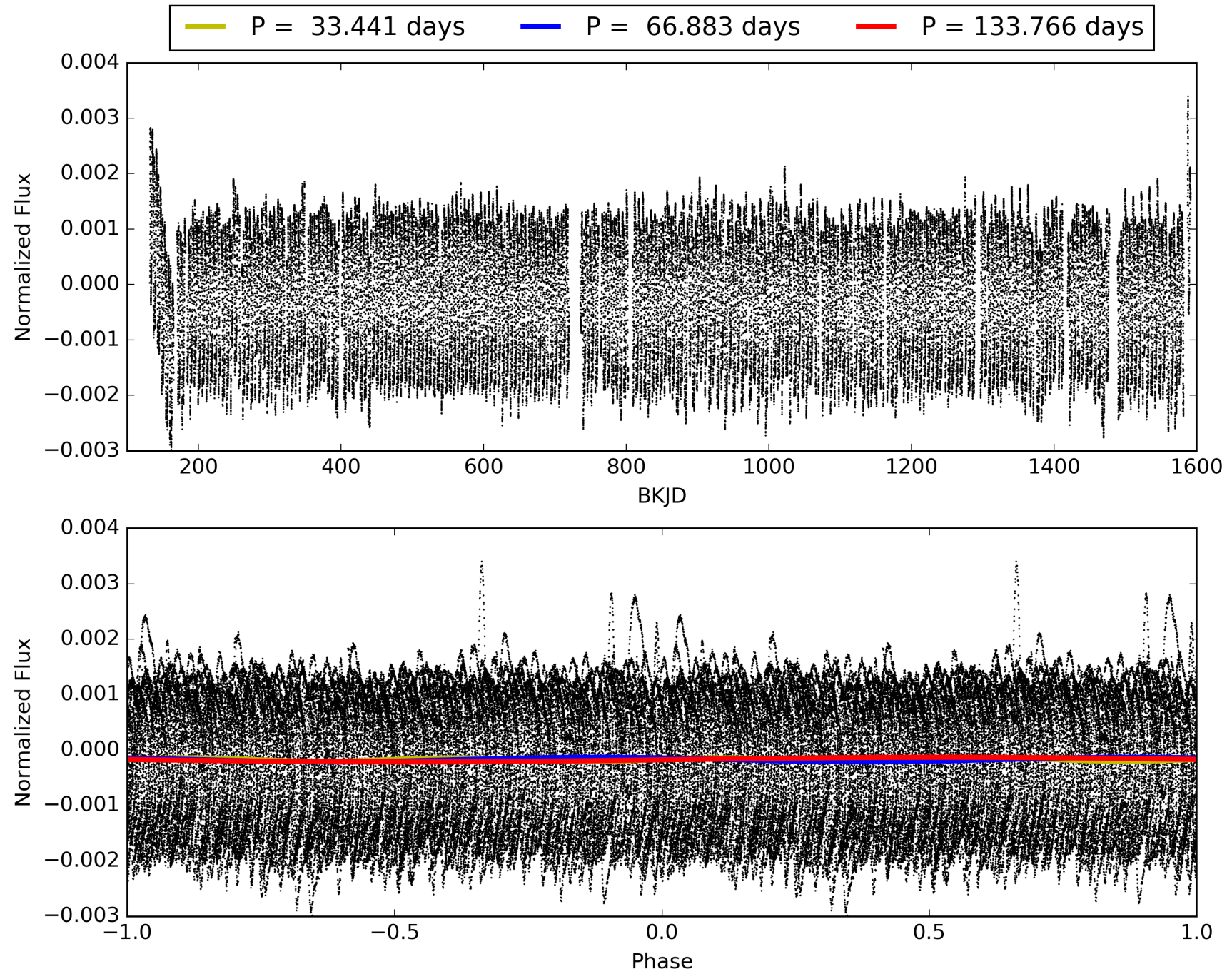
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [180.32 σ]
LongPeriod-sig: 100.0% [673.64 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 26.4%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 0.3708
Centroid-sig: N/A
Centroid-so: 0.684 arcsec [1.03 σ]
OotOffset-rm: 5.197 arcsec [3.23 σ]
KicOffset-rm: 3.959 arcsec [2.97 σ]
OotOffset-st: 4/4/4/3 [15]
KicOffset-st: 4/4/4/3 [15]
DiffImageQuality-fgm: 0.13 [2/15]
DiffImageOverlap-fno: 0.20 [3/15]

TCE 010195926-07, PDC Light Curves

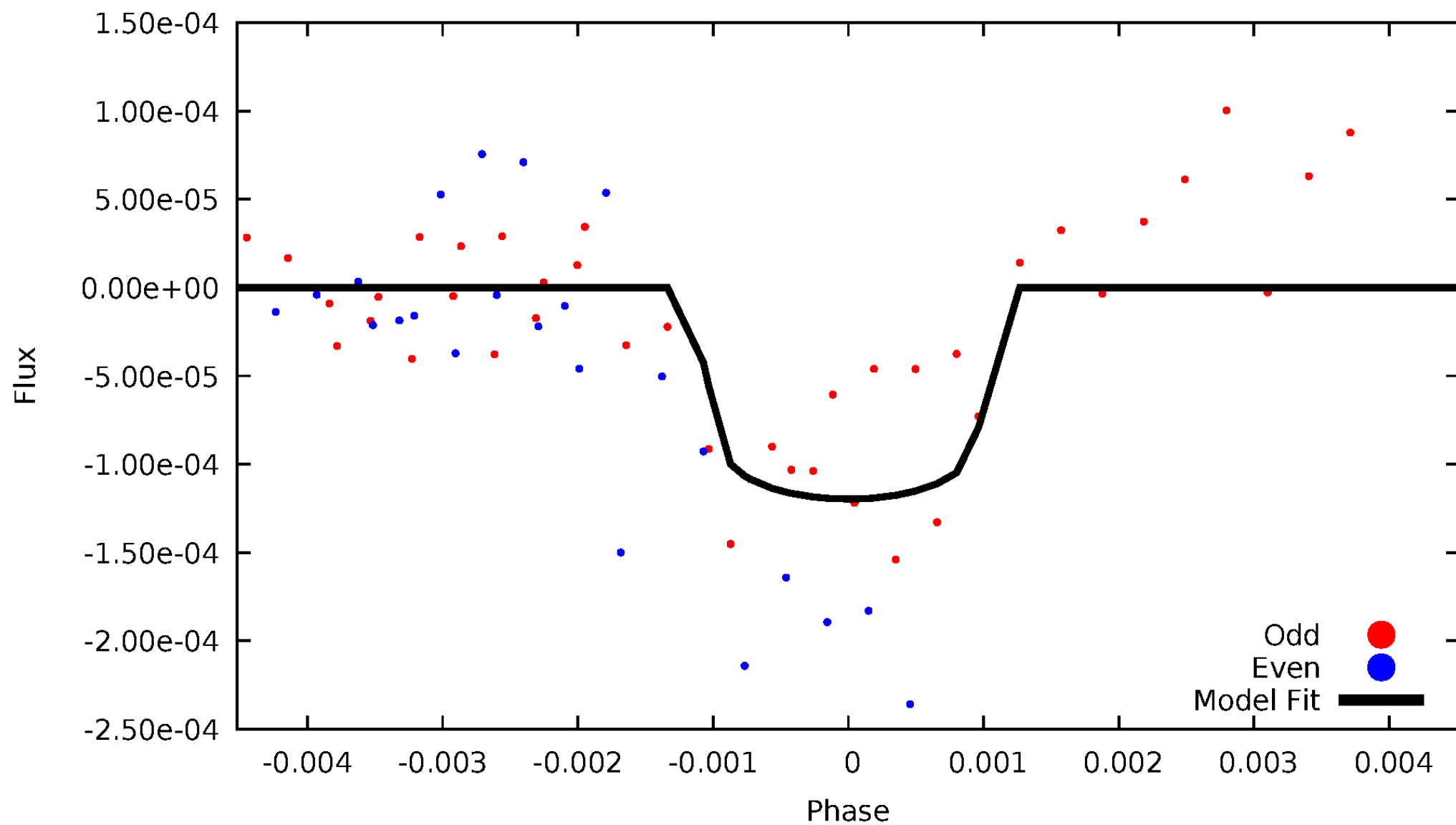


TCE 010195926-07



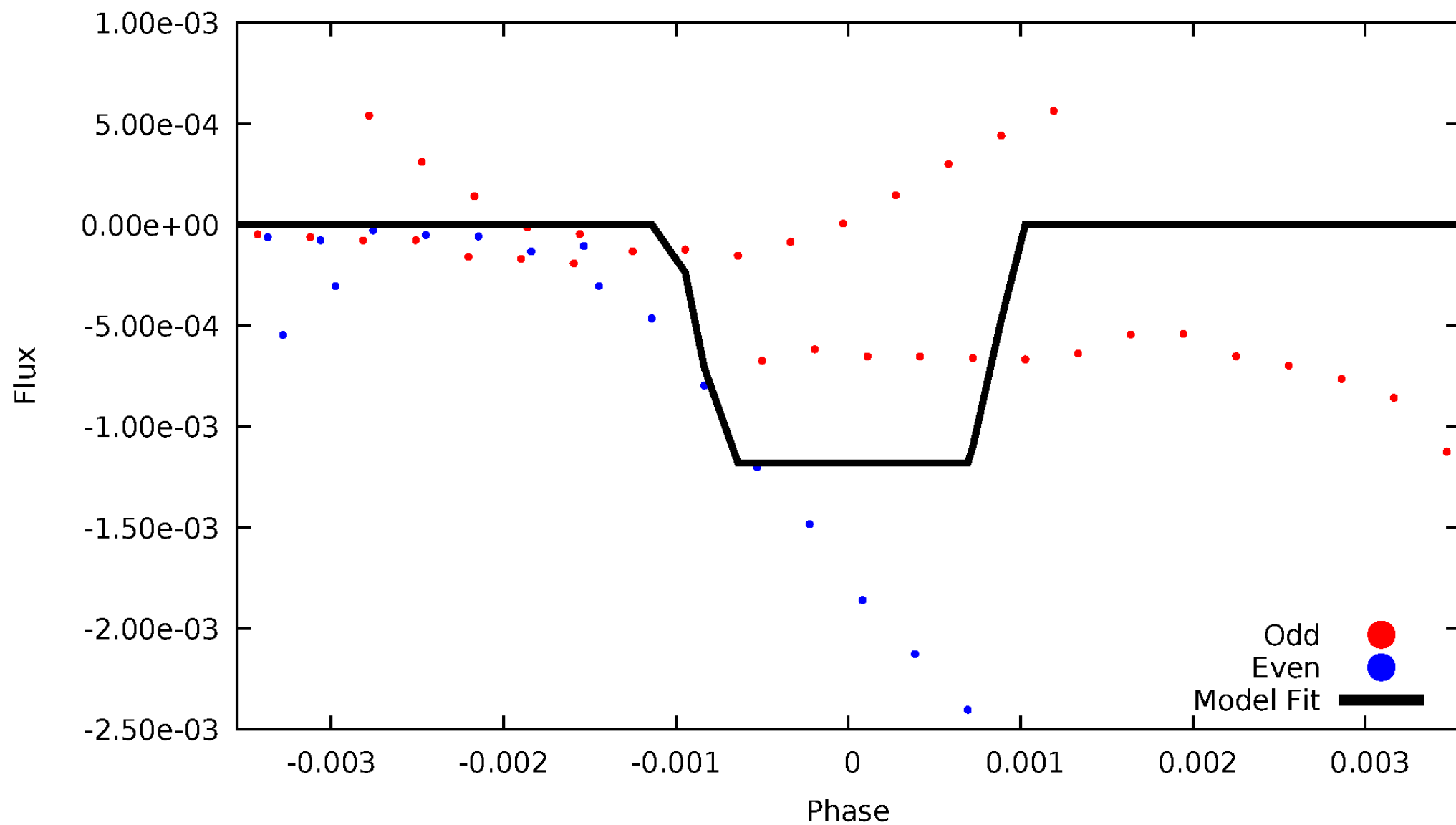
DV Odd/Even

TCE 010195926-07



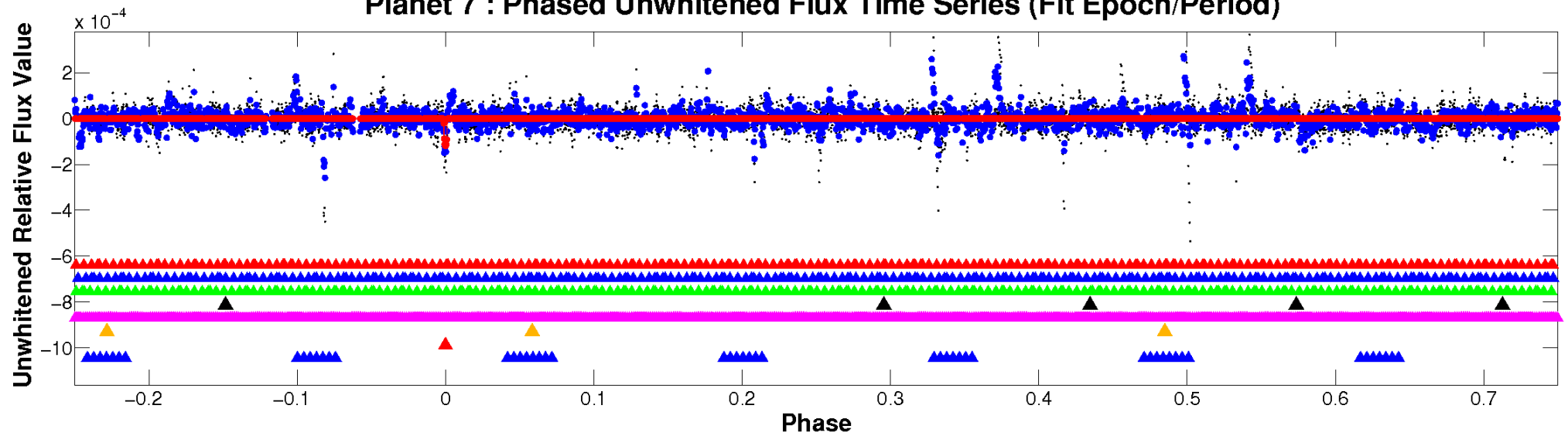
ALT Odd/Even

TCE 010195926-07

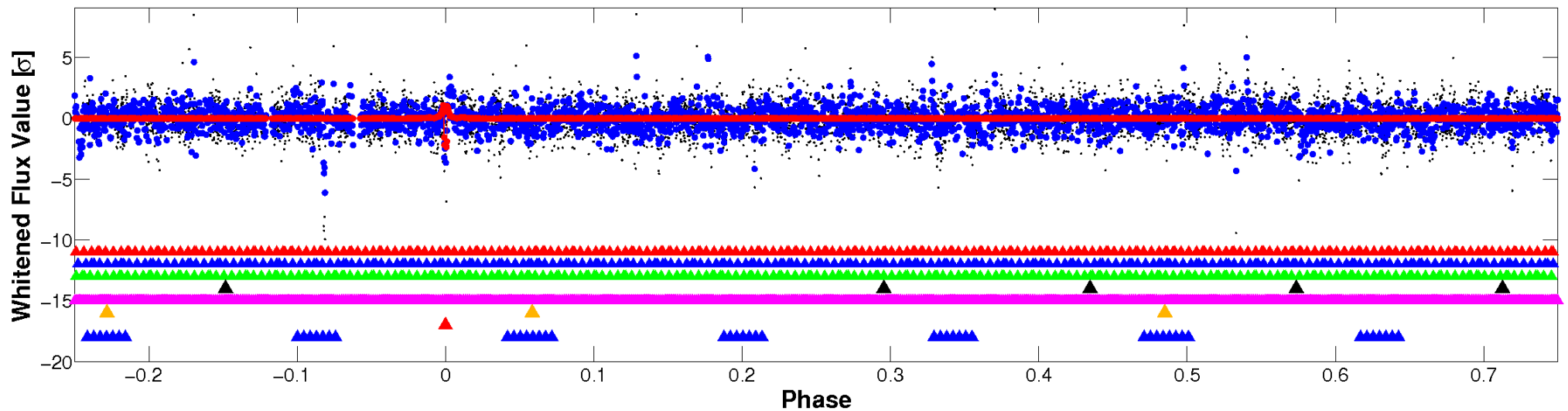


Non-Whitened Vs. Whitened Light Curve

Planet 7 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

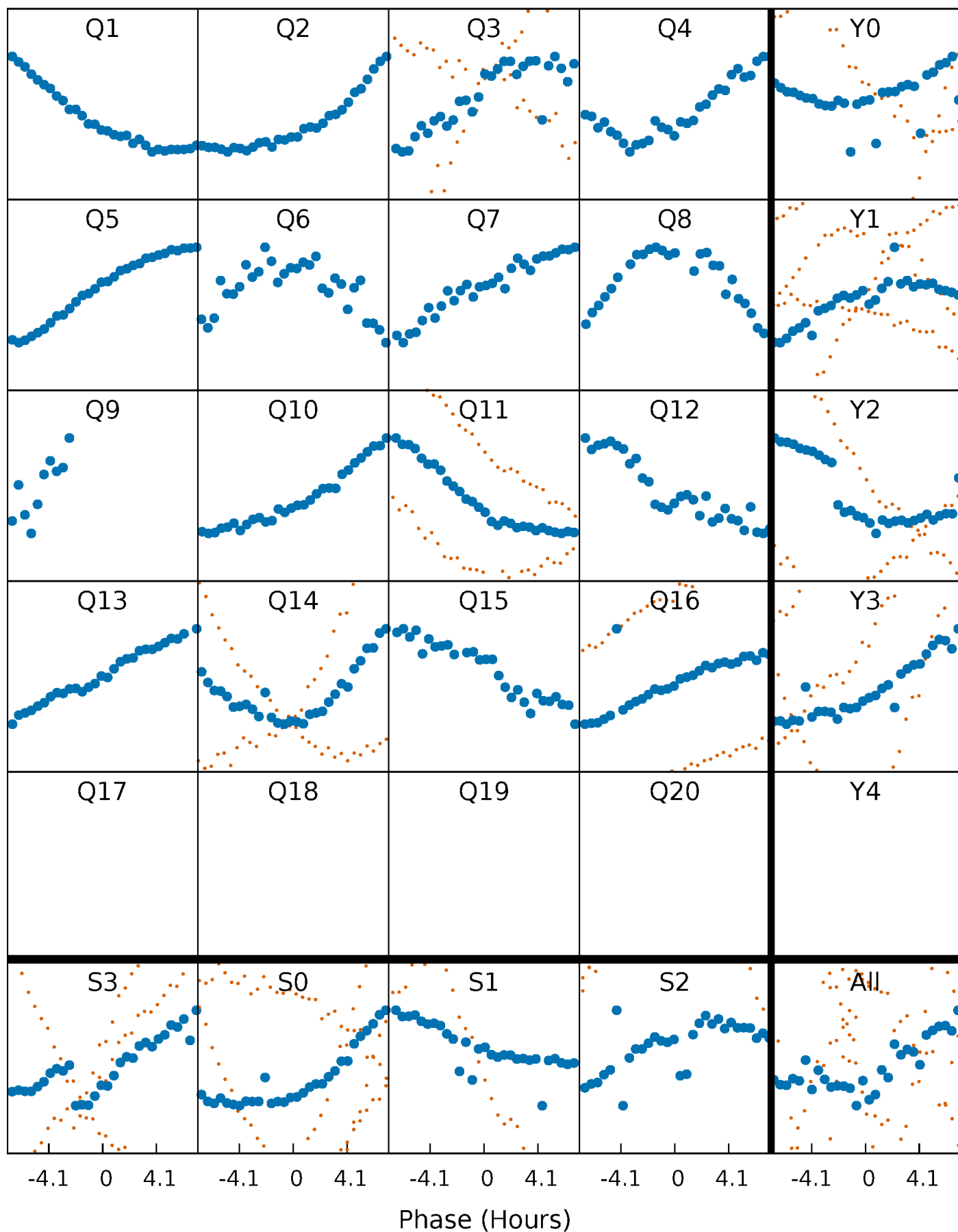


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



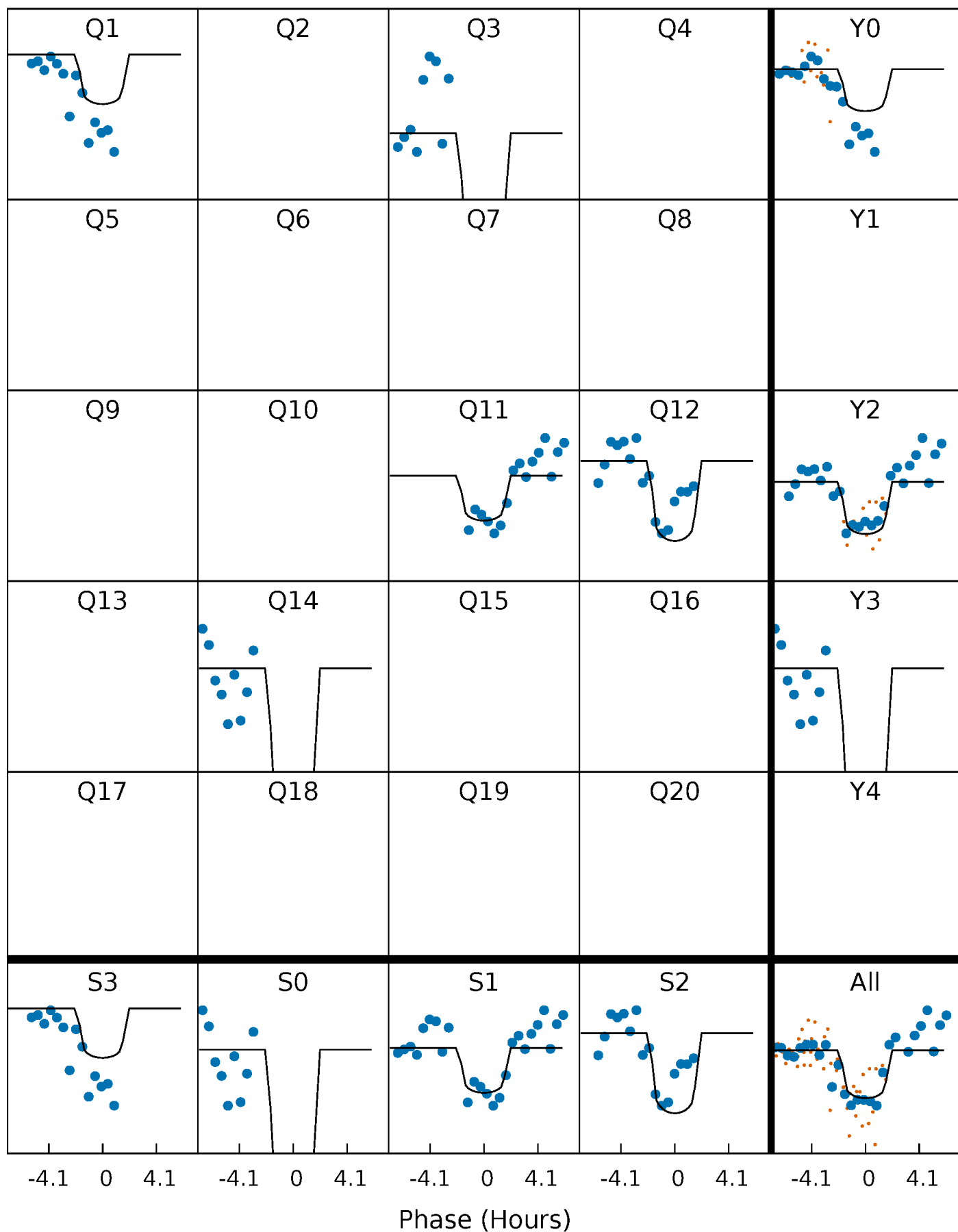
PDC Quarter-Phased Transit Curves

TCE 010195926-07 P= 66.882876 Days $T_0=138.511355$ (BKJD)



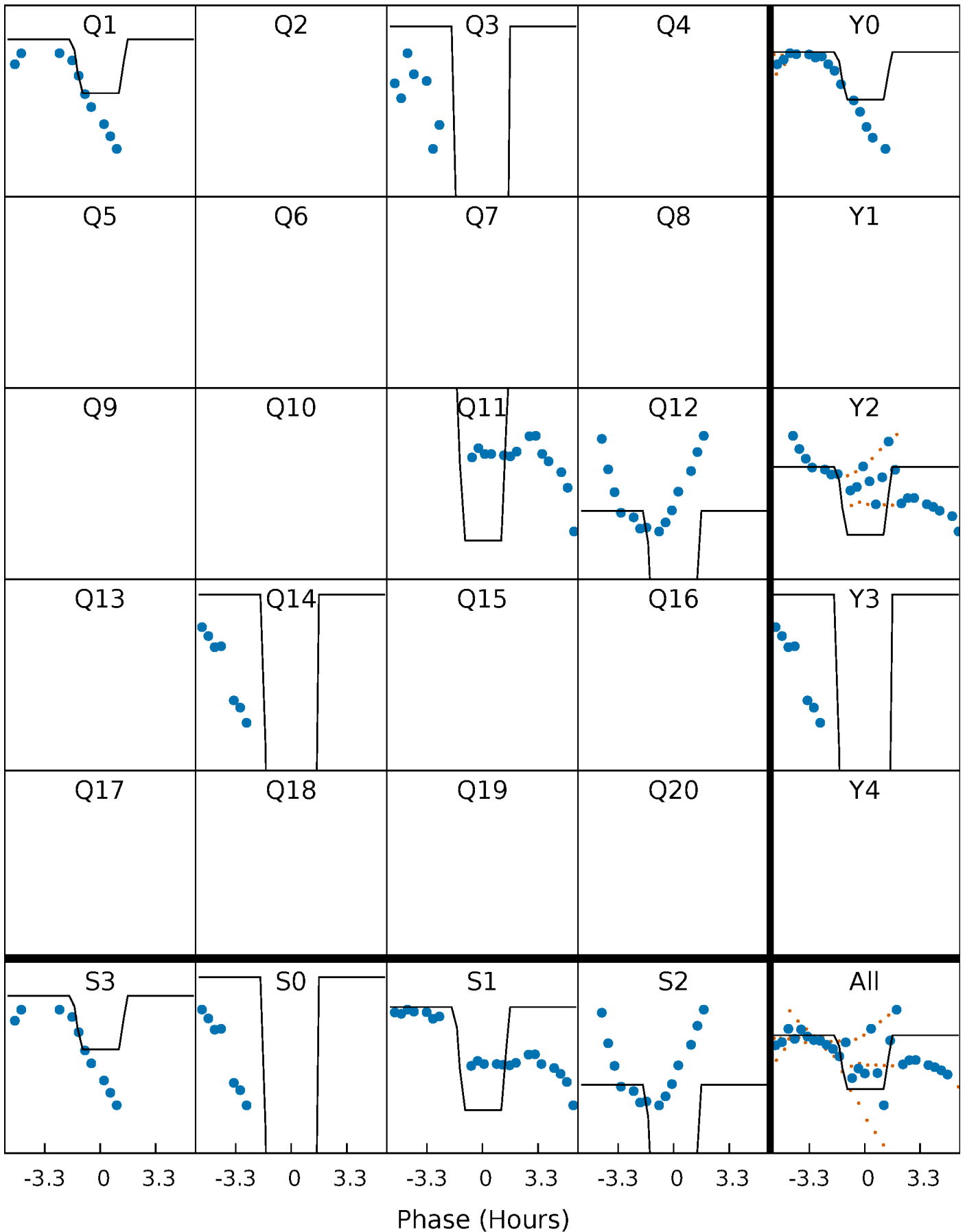
DV Quarter-Phased Transit Curves

TCE 010195926-07 $P = 66.882876$ Days $T_0 = 138.511355$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

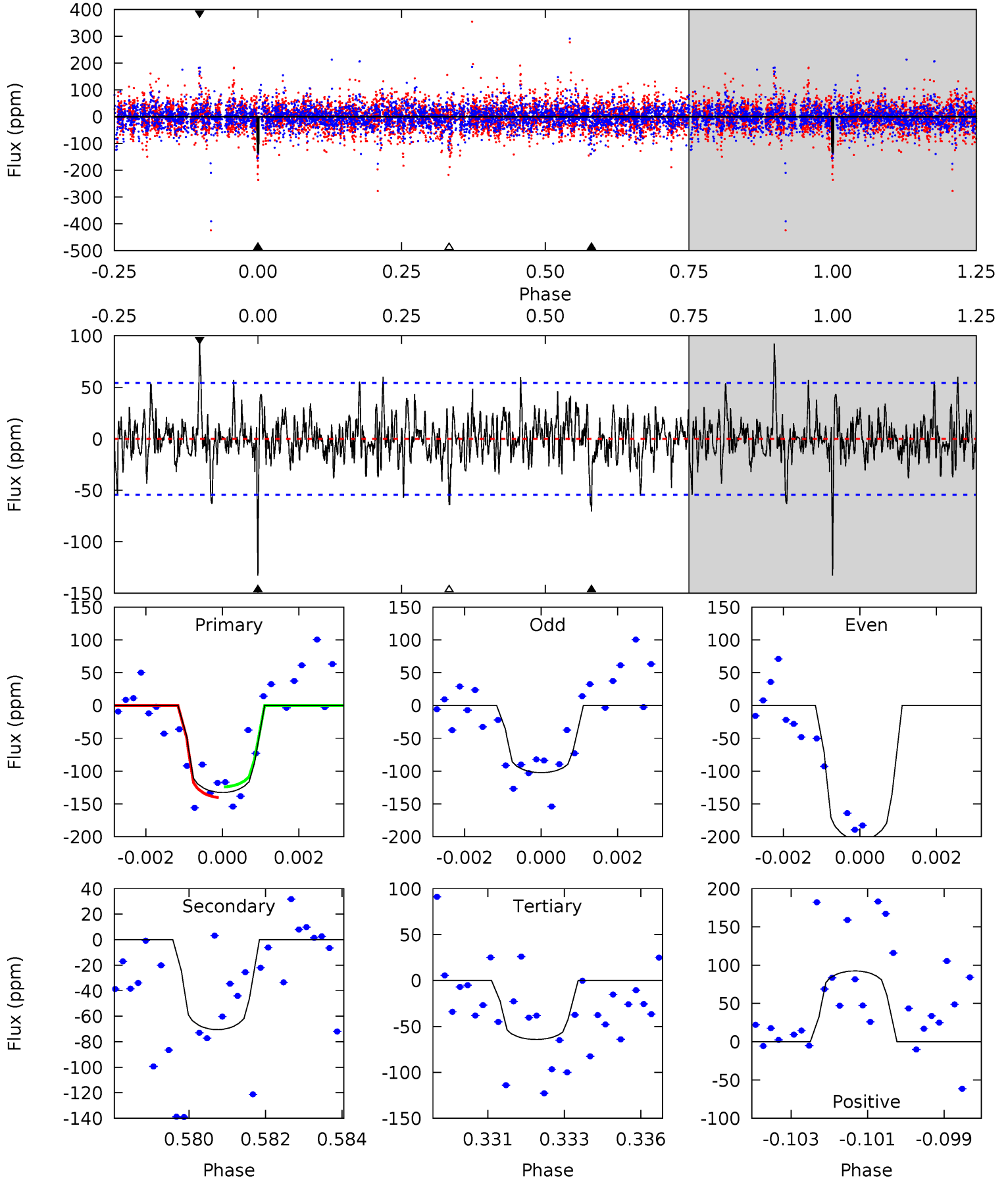
TCE 010195926-07 $P = 66.882190$ Days $T_0 = 138.495505$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-07, P = 66.882876 Days, E = 71.628479 Days

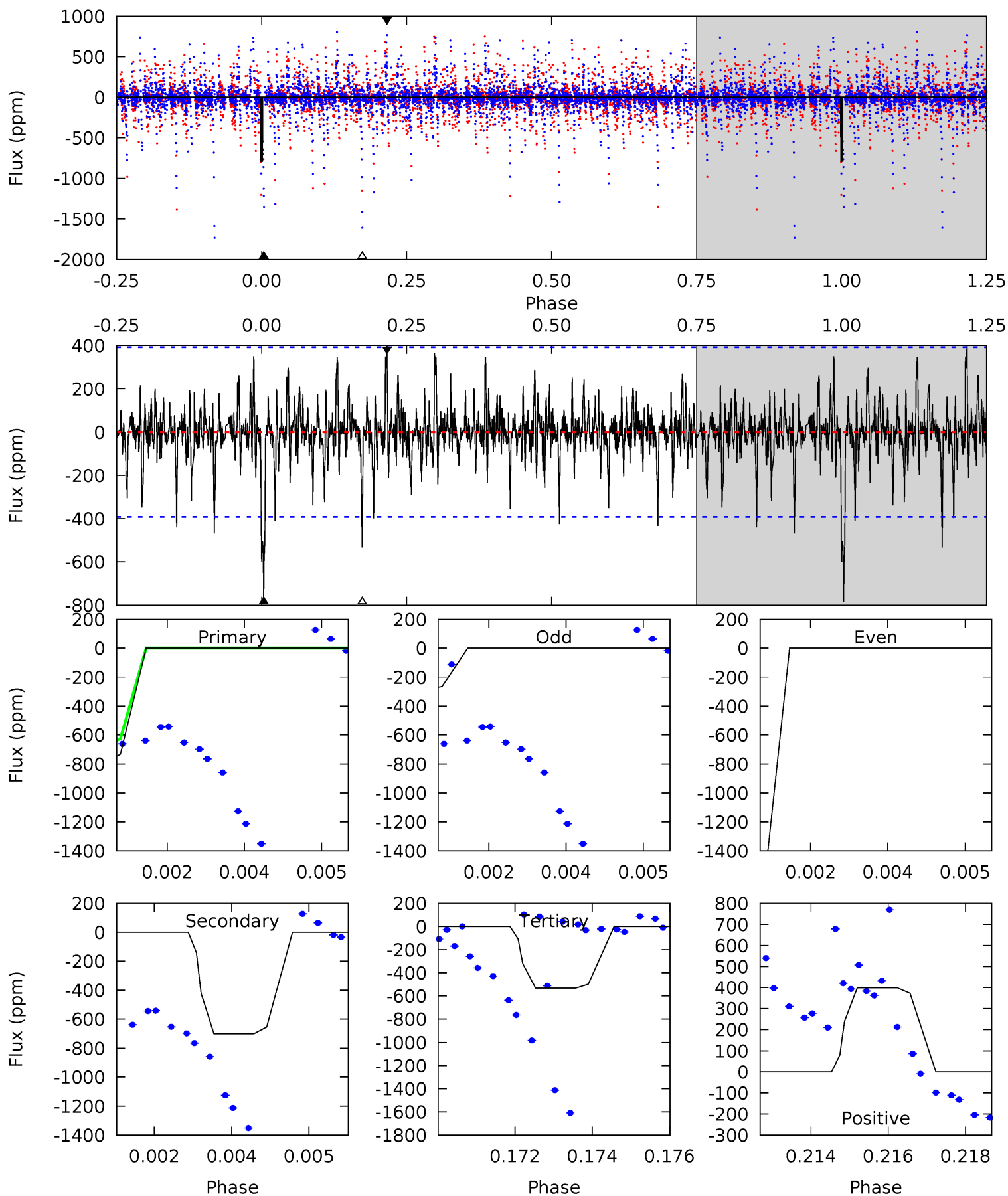
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.9	6.88	6.27	9.03	5.30	3.05	1.68	6.68	3.92	0.62	-2.14	3.72	1.06	0.41	0.80



Alt Model-Shift Uniqueness Test

010195926-07, P = 66.882190 Days, E = 71.613315 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.7	9.56	7.27	5.45	5.34	3.12	1.29	3.43	5.25	2.29	4.11	12.6	1.20	0.34	0.07



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-71 ± 10	$4.00^{+3.07}_{-2.31}$	1342^{+90}_{-181}	6126^{+4108}_{-1274}	363^{+1607}_{-250}
Alt.	-701 ± 73	$11.58^{+3.84}_{-4.07}$	1341^{+92}_{-176}	6550^{+1200}_{-704}	436^{+589}_{-189}

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 $A_{obs} \gg 1.0$

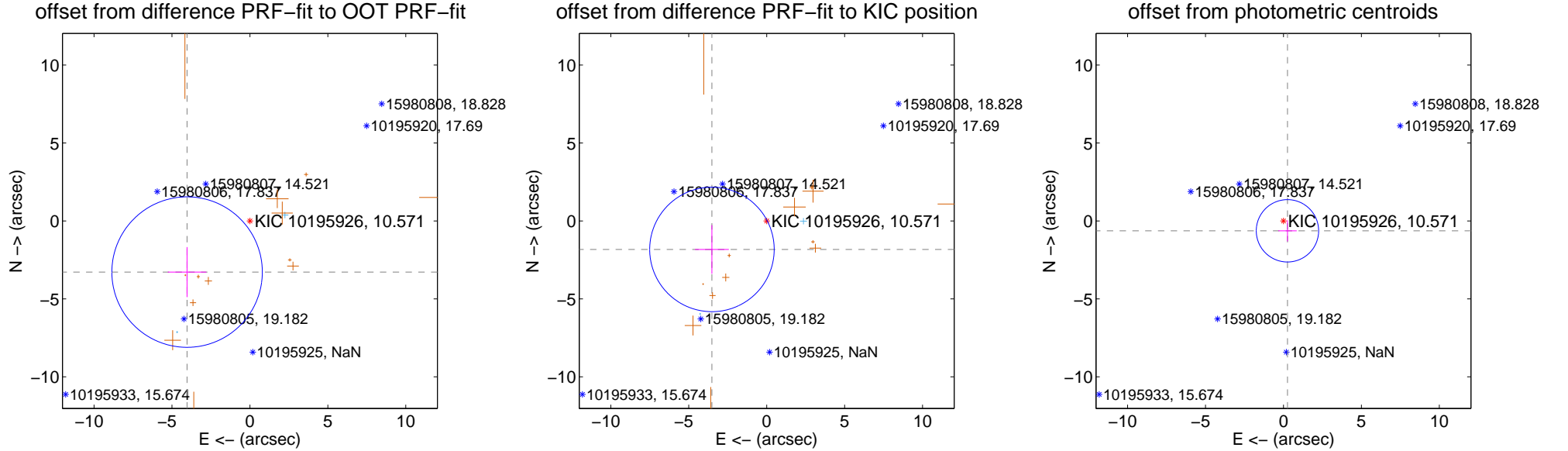
DV Centroid Data

Supplemental centroid analysis for 010195926-07. **Kepler magnitude: 10.57.** Transit SNR 9.52

There are 2 quarters with good PRF difference image offsets

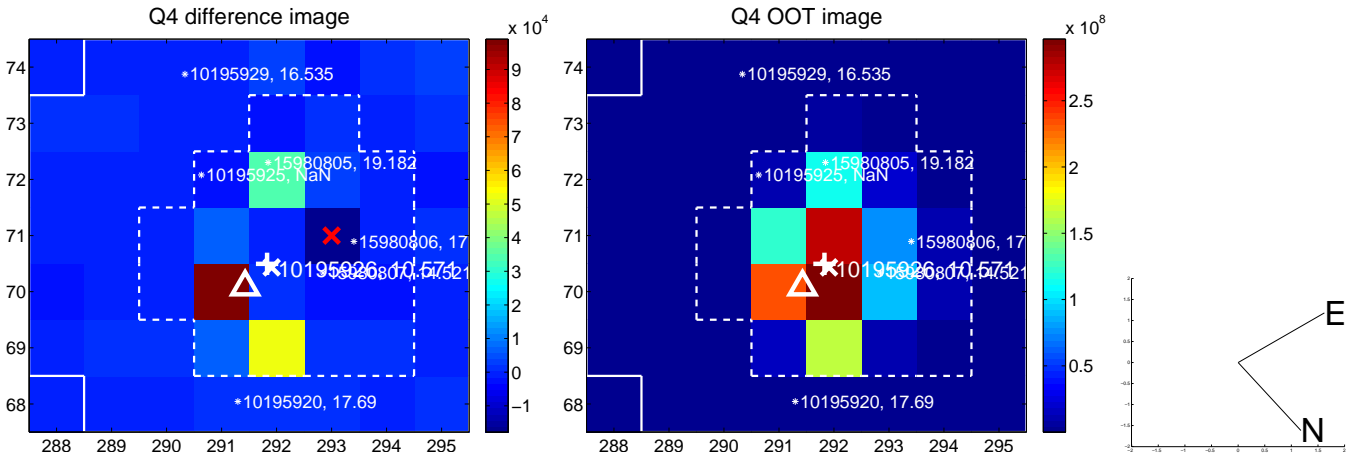
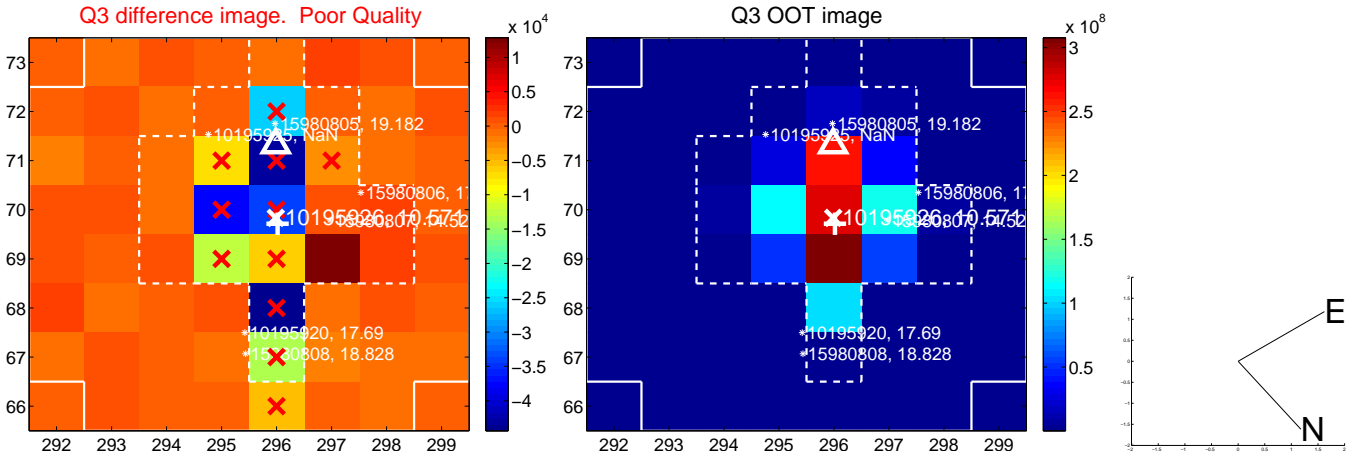
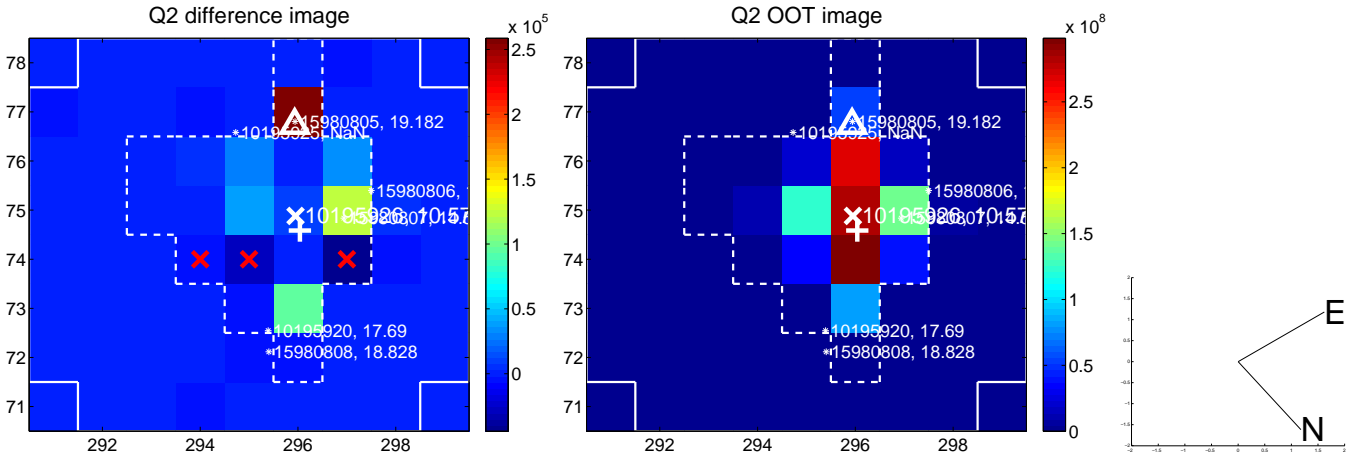
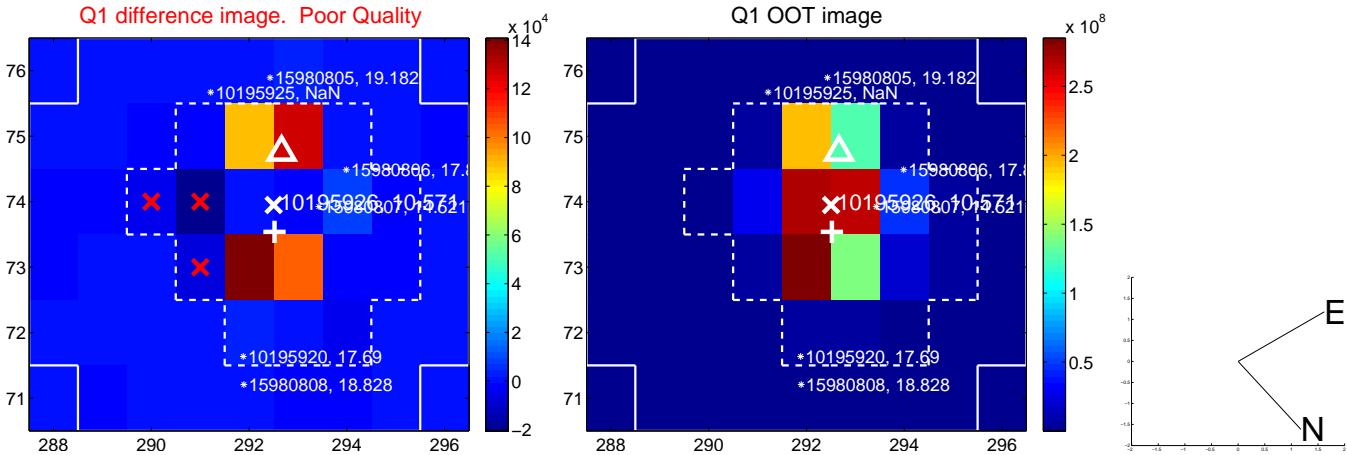
The direct PRF centroid is offset from the target star catalog position by about 0.43 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.197 ± 1.609	3.23	4.030 ± 1.239	-3.281 ± 1.607
PRF-fit source offset from KIC position	3.959 ± 1.331	2.97	3.512 ± 1.082	-1.828 ± 1.559
photometric centroid source offset	0.68 ± 0.67	1.03	-0.26 ± 0.59	-0.63 ± 0.68

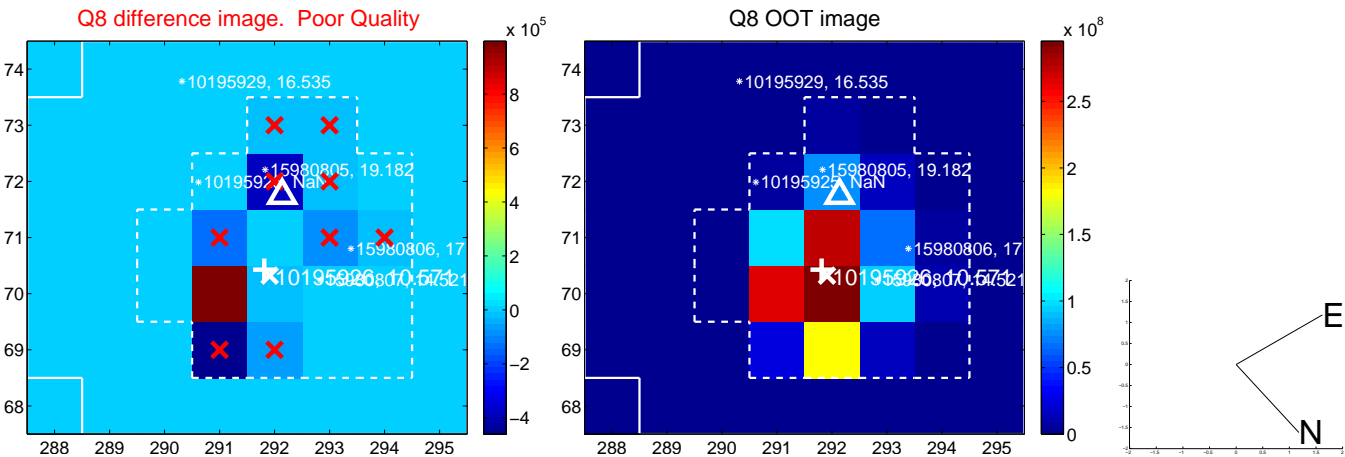
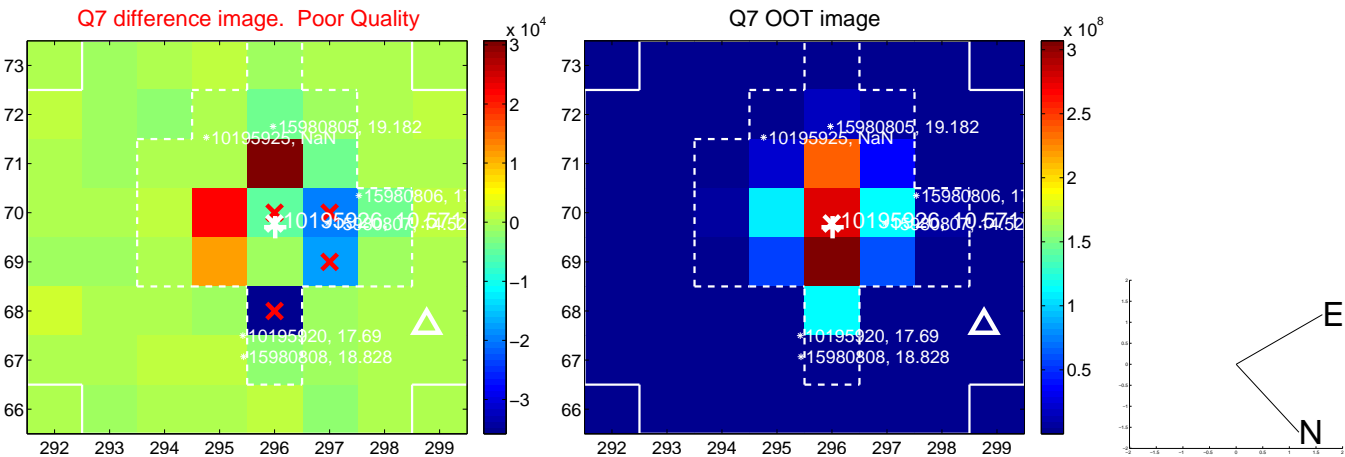
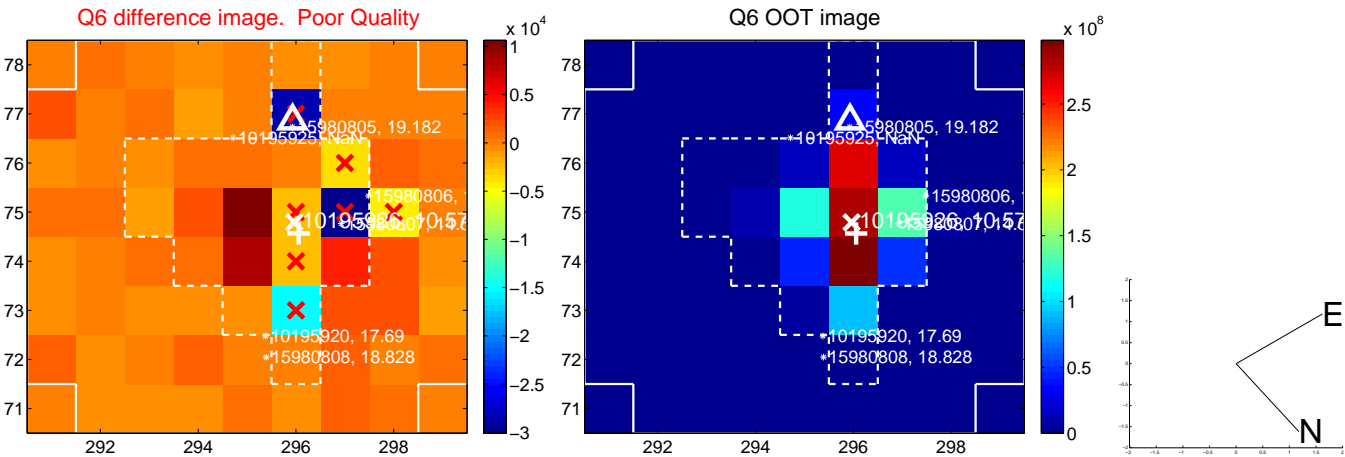
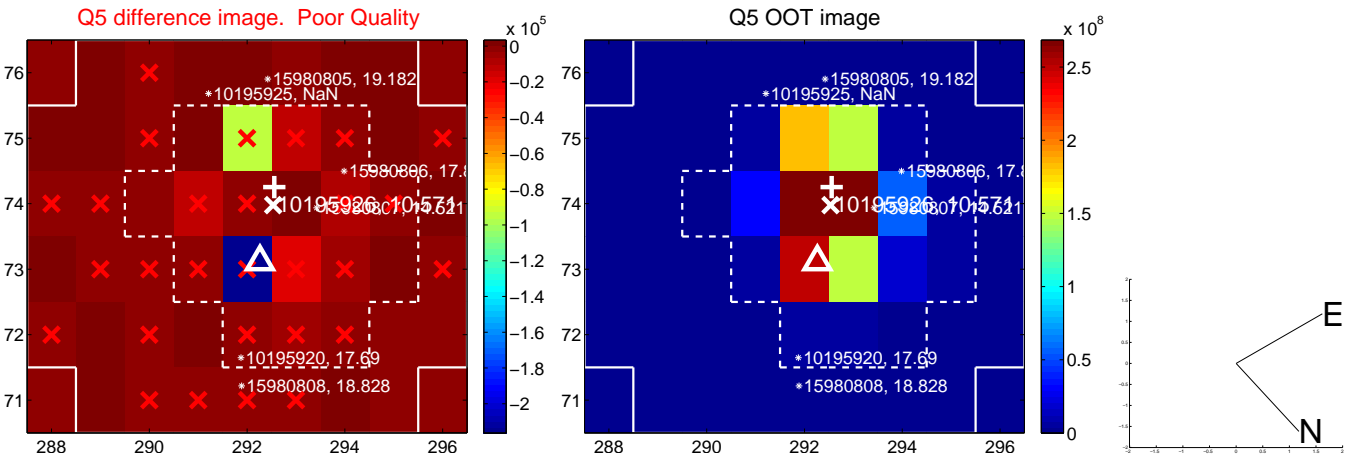


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

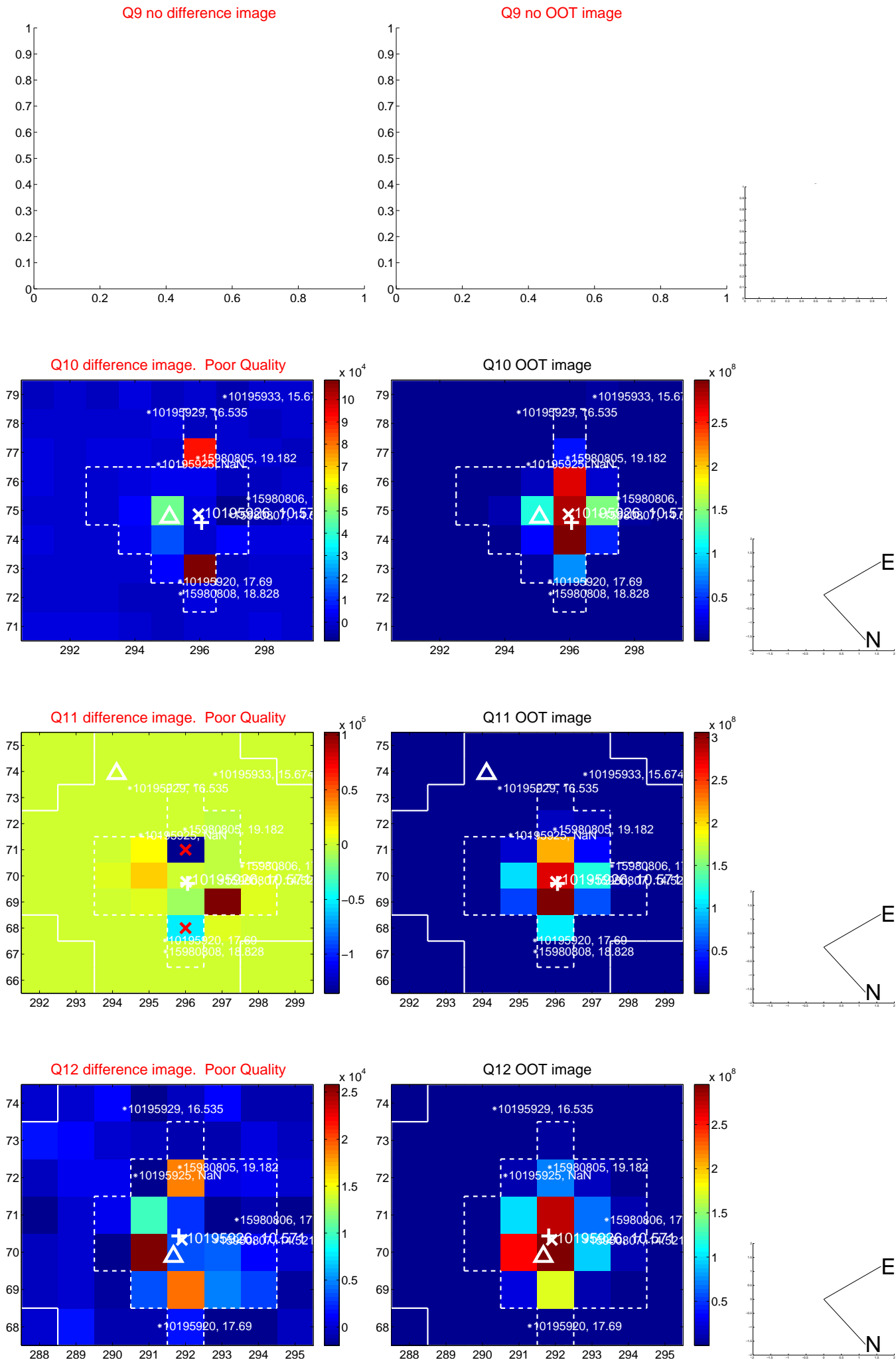
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



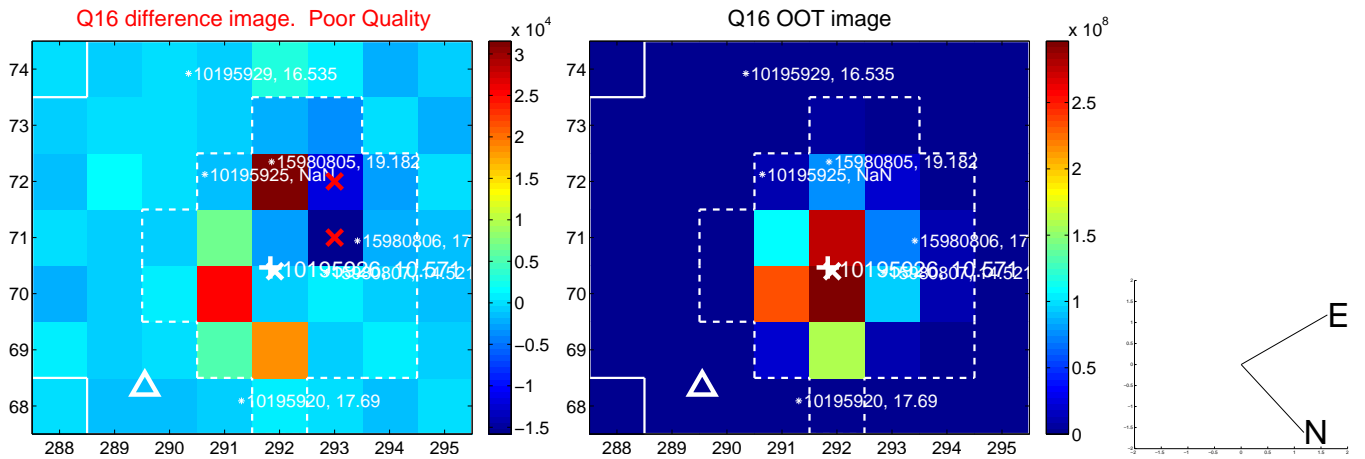
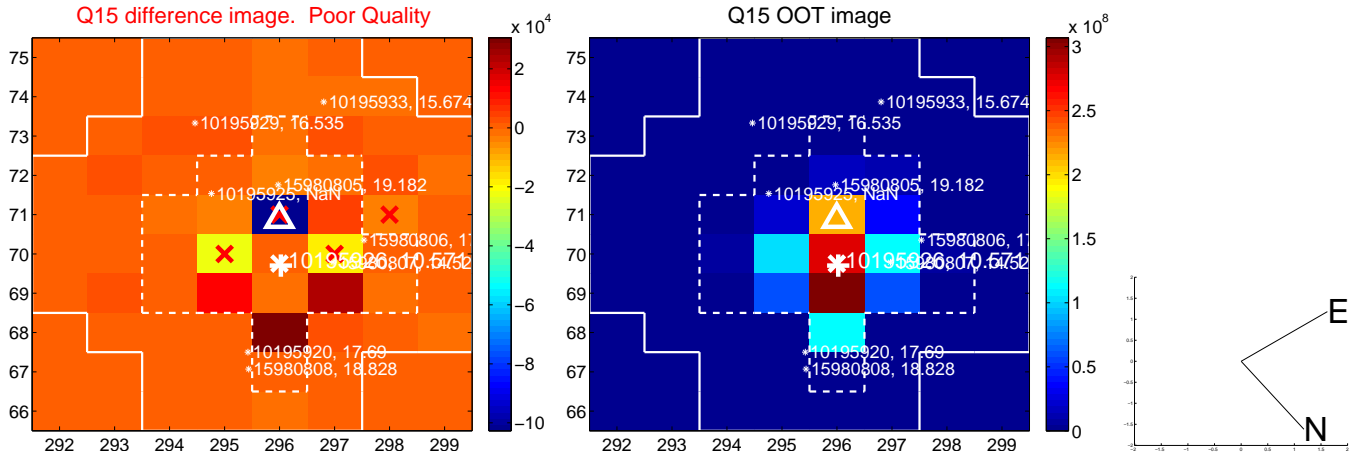
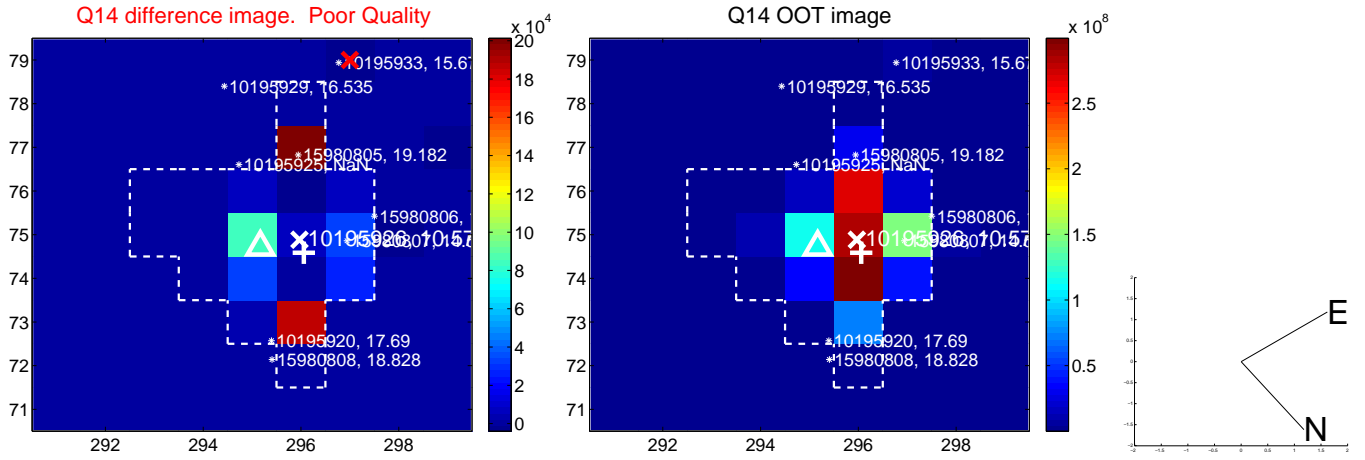
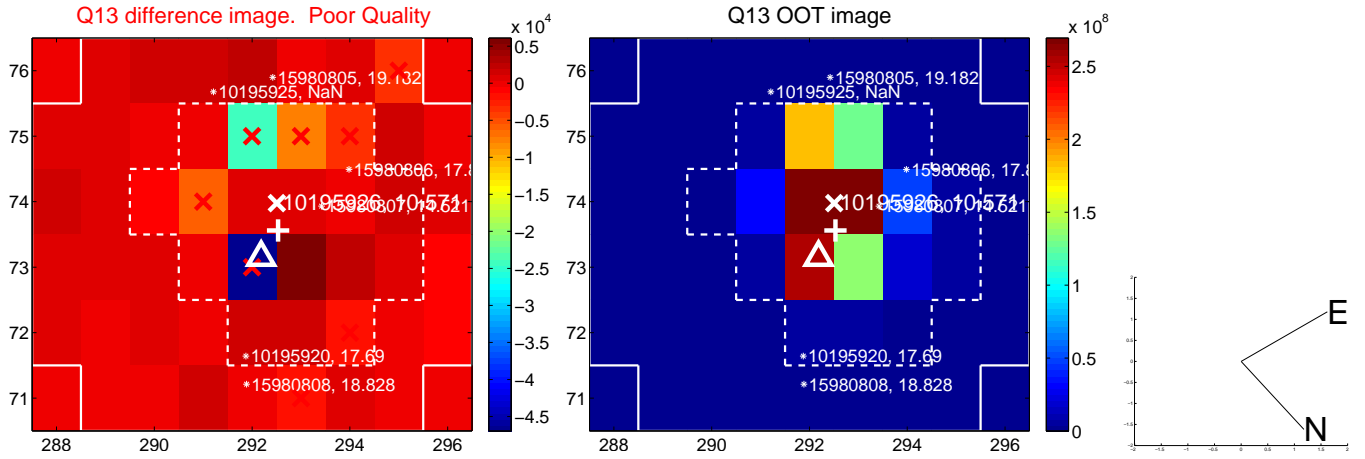
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



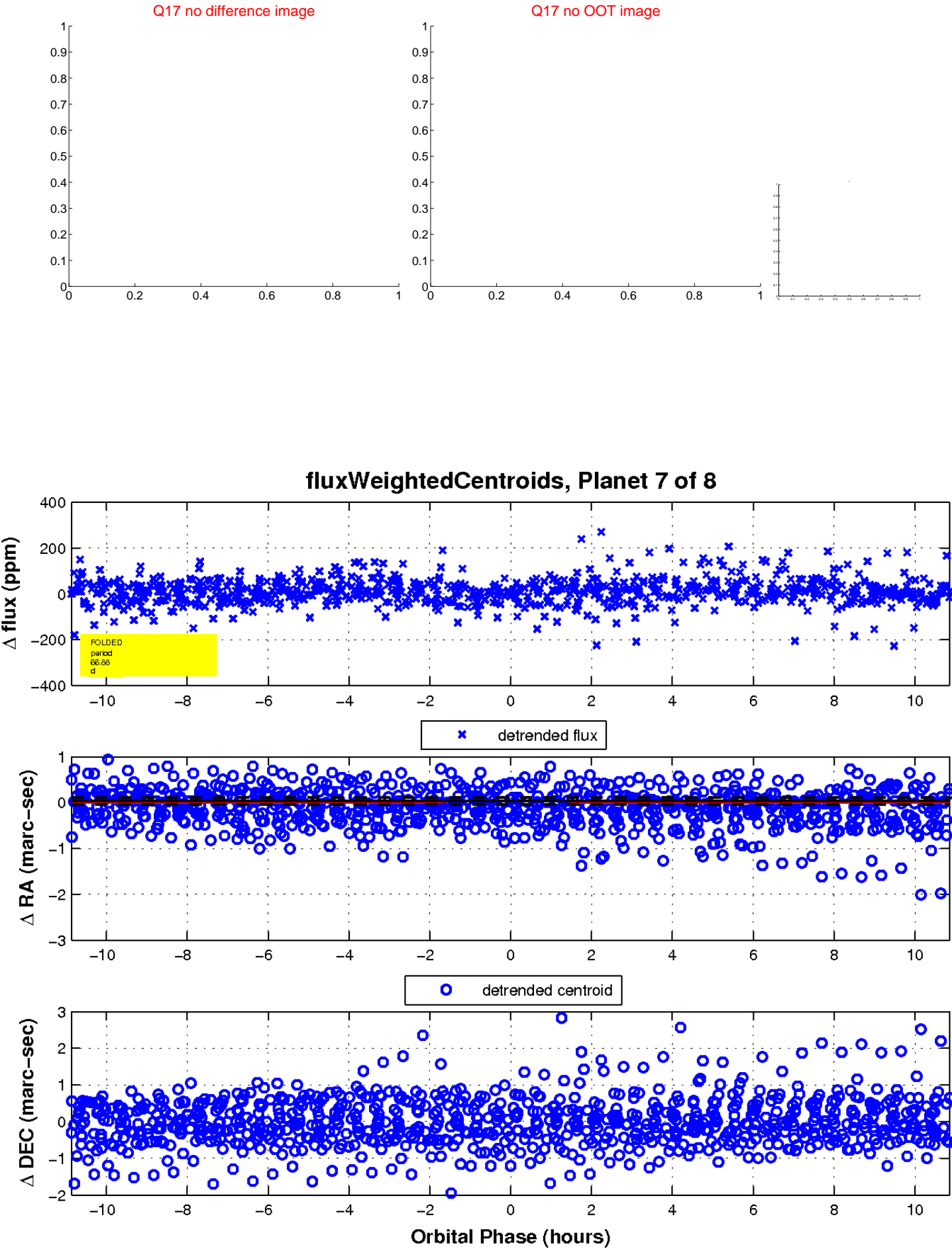
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

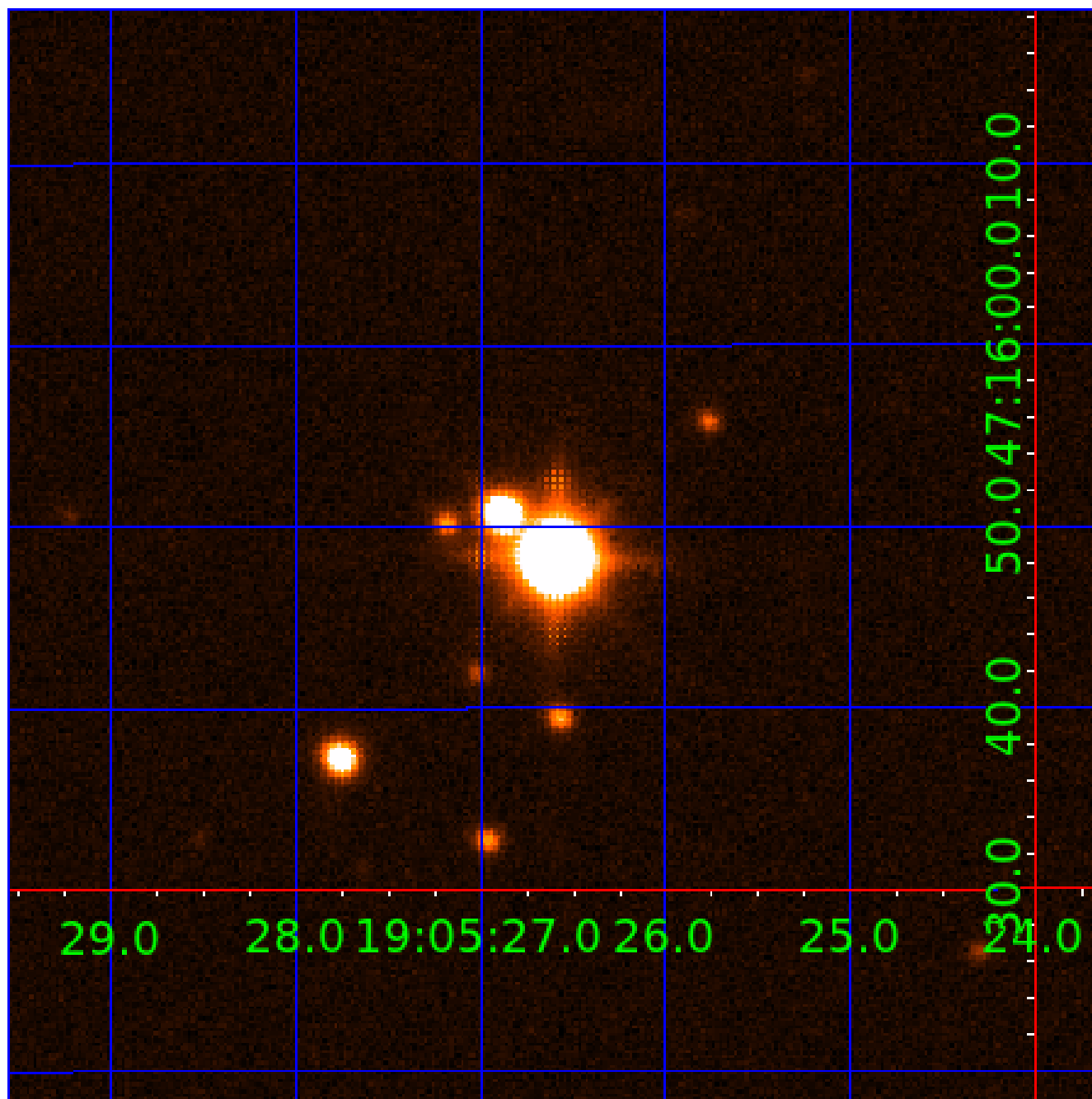


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 010195926

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})
010195926-01	OBS	No	5.684694	131.605766	41.1	3.517	22.4	23.9	3.34	7620	2.52	5972.86
010195926-02	OBS	No	5.684515	137.050510	21.3	8.401	13.4	10.3	3.34	7620	1.79	5973.11
010195926-03	OBS	No	5.684630	133.934534	9.8	16.805	10.8	6.3	3.34	7620	1.23	5972.95
010195926-04	OBS	No	325.114519	262.360222	159.4	8.455	25.9	8.3	3.34	7620	4.84	27.11
010195926-05	OBS	No	1.421002	132.035653	10.5	8.637	12.6	10.7	3.34	7620	1.10	37931.41
010195926-06	OBS	No	554.241600	237.832049	285.6	11.368	22.7	17.2	3.34	7620	6.80	13.31
010195926-07	OBS	No	66.882876	138.511355	119.7	3.627	12.2	9.5	3.34	7620	4.24	223.21
010195926-08	OBS	No	28.704901	141.310986	51.1	3.559	12.9	4.8	3.34	7620	2.42	689.47

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
010195926-01	OBS	FP	0.00	1	0	0	0	LPP_DV—CENT_SATURATED
010195926-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE_ZUMA—LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-03	OBS	FP	0.00	1	0	0	0	LPP_DV—MOD_NONUNIQ_DV—SAME_NTL_PERIOD—CENT_SATURATED
010195926-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_SATURATED
010195926-05	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—SWEET_NTL—LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—SAME_NTL_PERIOD—CENT_SATURATED
010195926-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_SATURATED
010195926-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—CENT_SATURATED
010195926-08	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—CENT_SATURATED

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

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

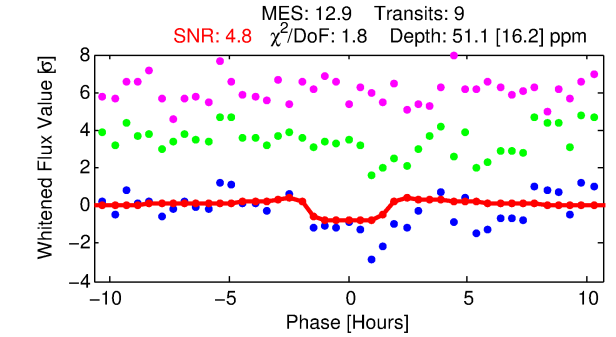
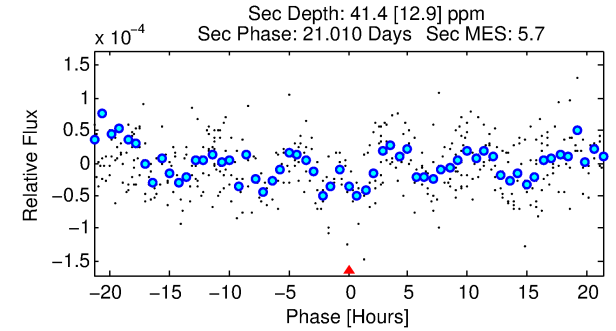
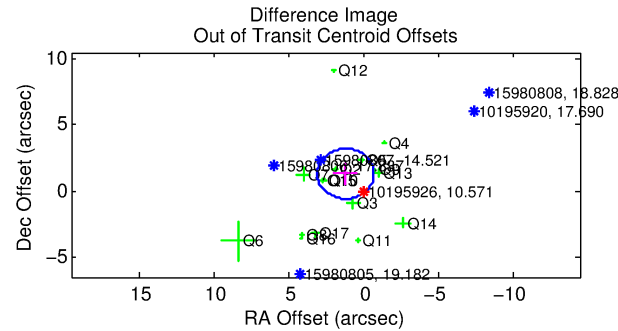
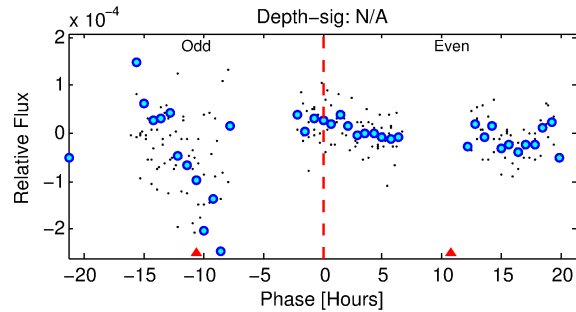
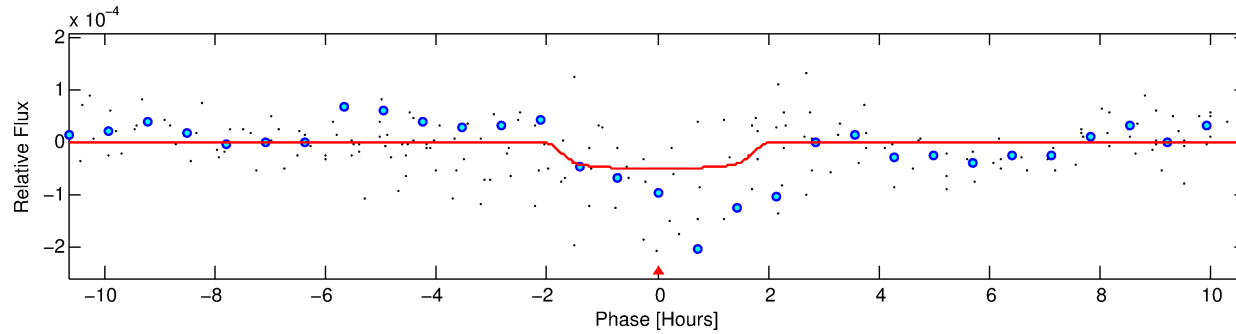
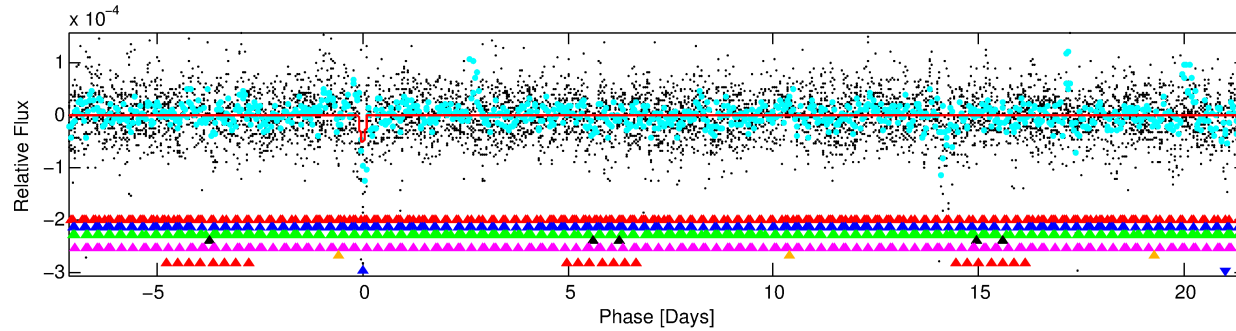
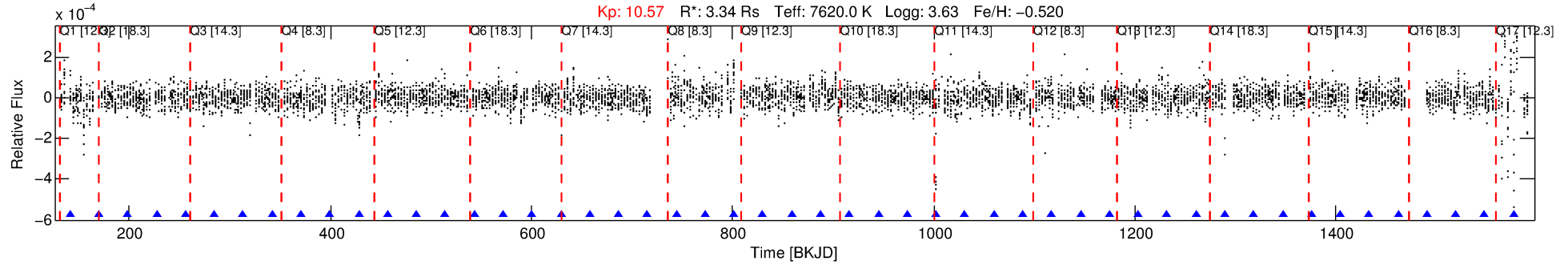
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 010195926-08

No Significant Match Found

DV One-Page Summary

KIC: 10195926 Candidate: 8 of 8 Period: 28.705 d



DV Fit Results:

Period = 28.70490 [0.00054] d
Epoch = 141.3110 [0.0152] BKJD
 $R_p/R^* = 0.0066$ [0.0150]
 $a/R^* = 61.80$ [804.46]
 $b = 0.09$ [149.35]
 $\text{Seff} = 689.47$ [654.29]
 $T_{\text{eq}} = 1307$ [310] K
 $R_p = 2.41$ [5.63] R_e
 $a = 0.2210$ [0.1243] AU
 $A_g = 190.68$ [884.86] [0.21 σ]
 $T_{\text{eff}} = 7507$ [8537] K [0.73 σ]

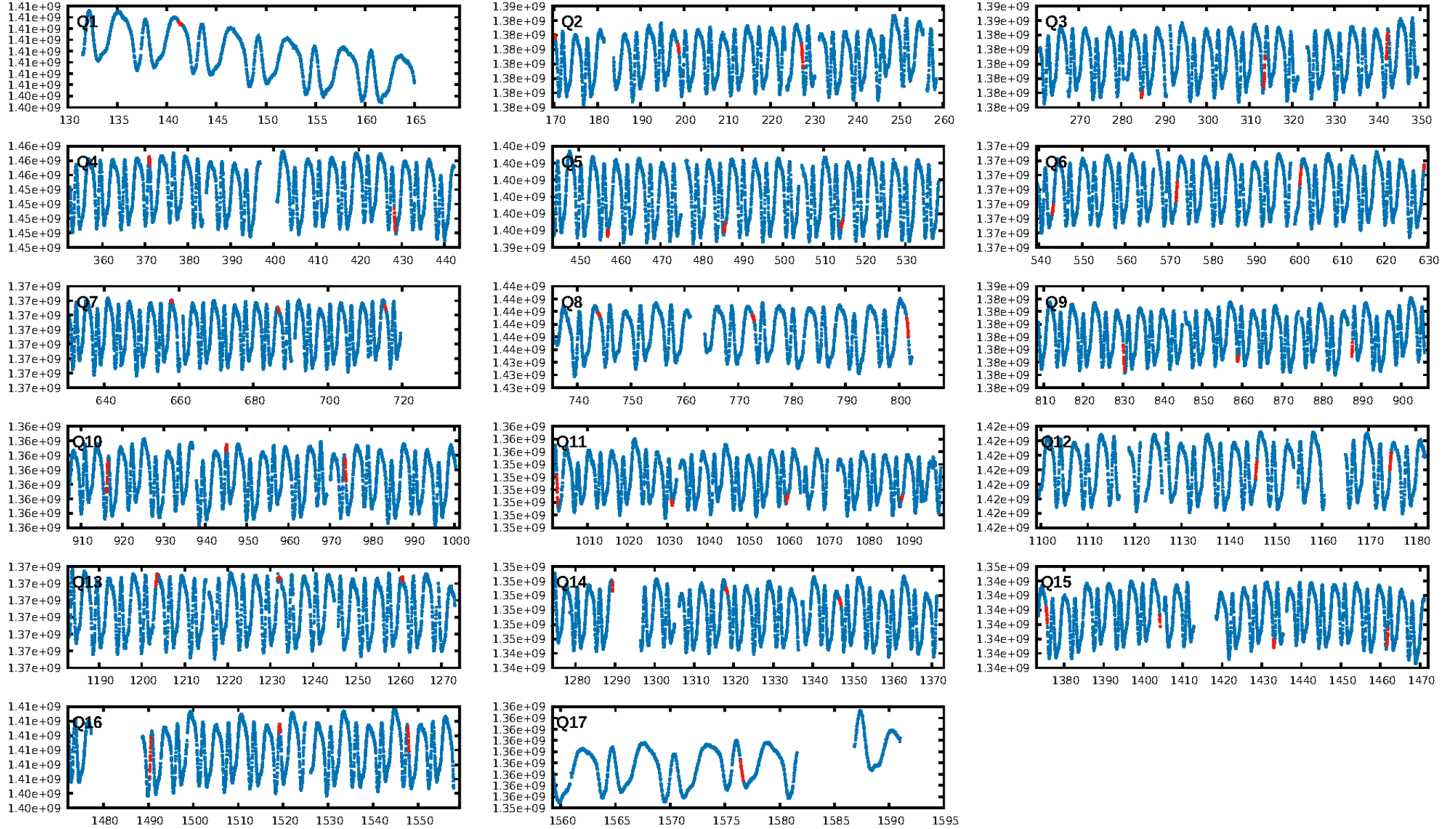
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [110.43 σ]
LongPeriod-sig: 100.0% [180.32 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 98.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [7/7]
GhostDiagnostic-chr: 0.886
Centroid-sig: N/A
Centroid-so: 1.174 arcsec [1.31 σ]
OotOffset-rm: 1.752 arcsec [2.79 σ]
OotOffset-st: 4/4/4/4 [16]
KicOffset-rm: 2.280 arcsec [3.35 σ]
KicOffset-st: 4/4/4/4 [16]
DiffImageQuality-fgm: 0.25 [4/16]
DiffImageOverlap-fno: 0.24 [4/17]

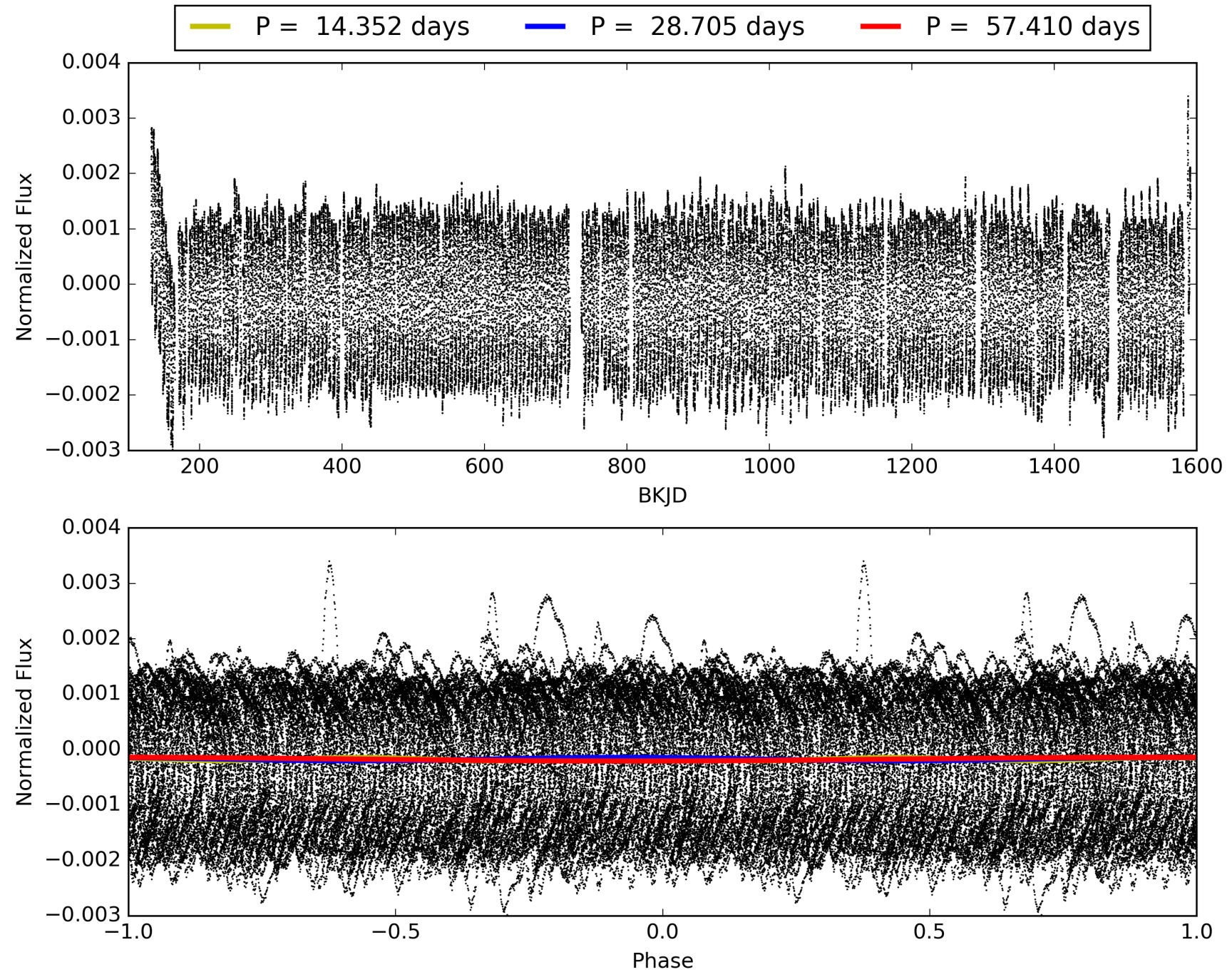
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 07:25:32 Z

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

TCE 010195926-08, PDC Light Curves

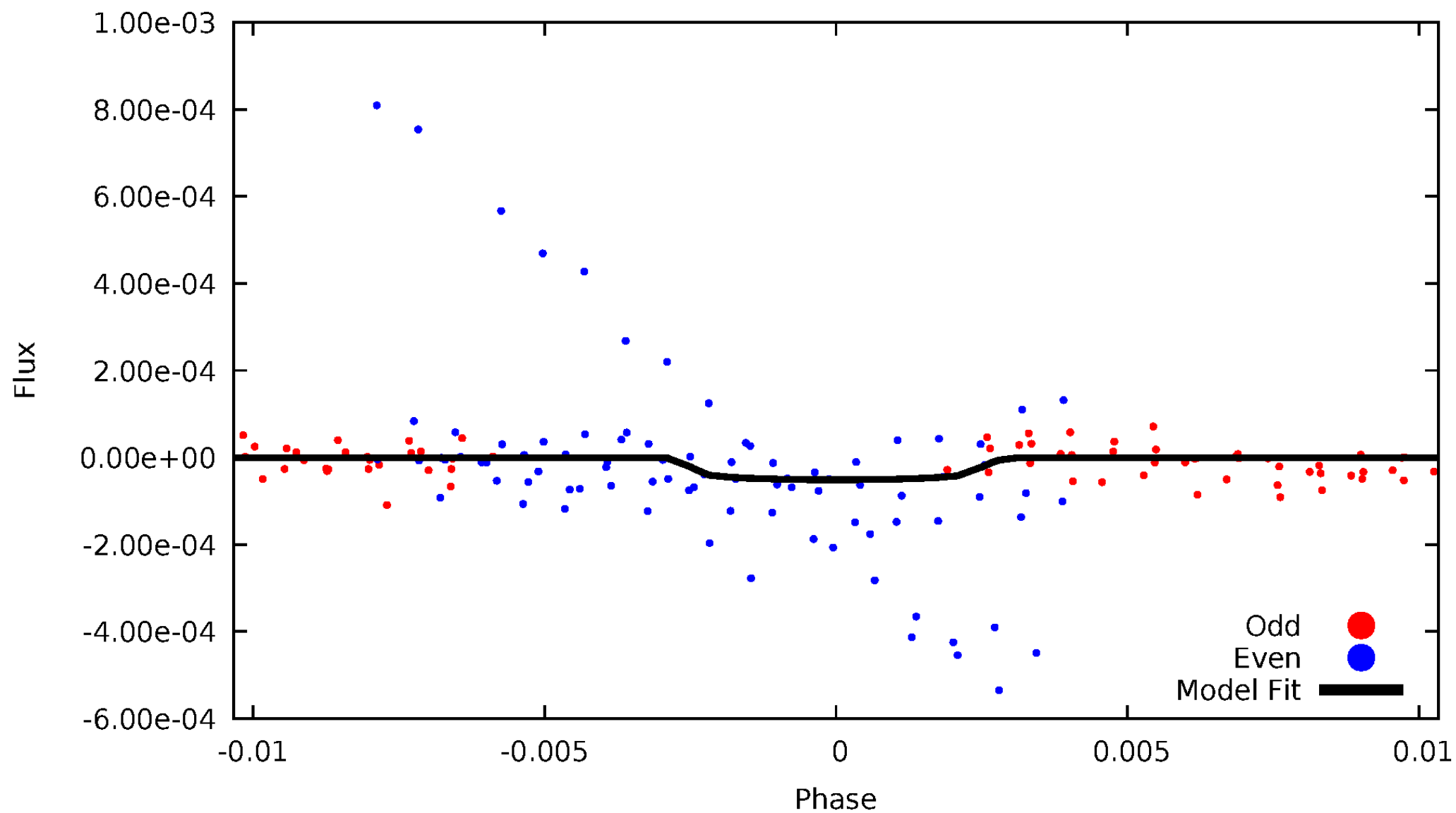


TCE 010195926-08



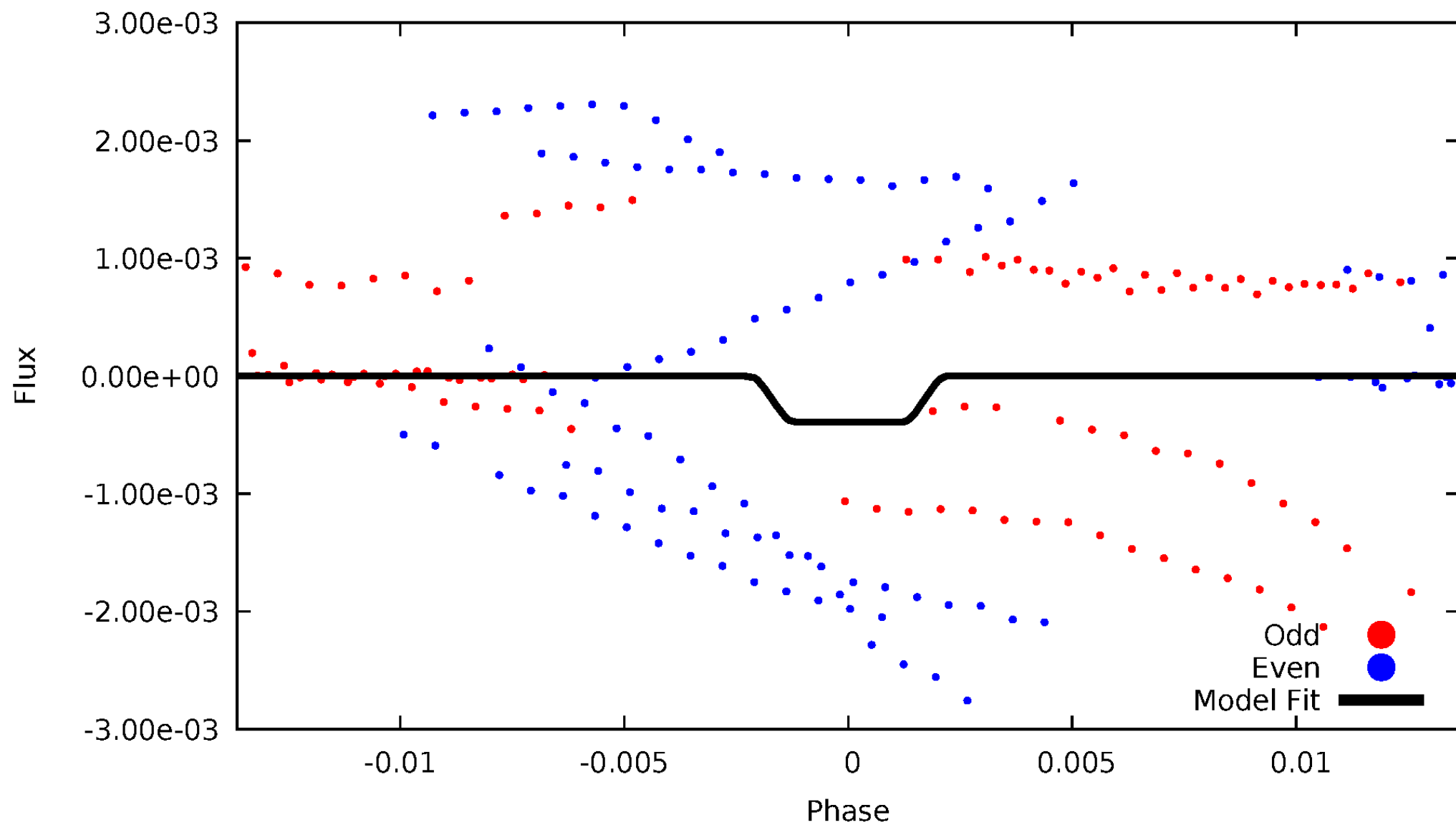
DV Odd/Even

TCE 010195926-08



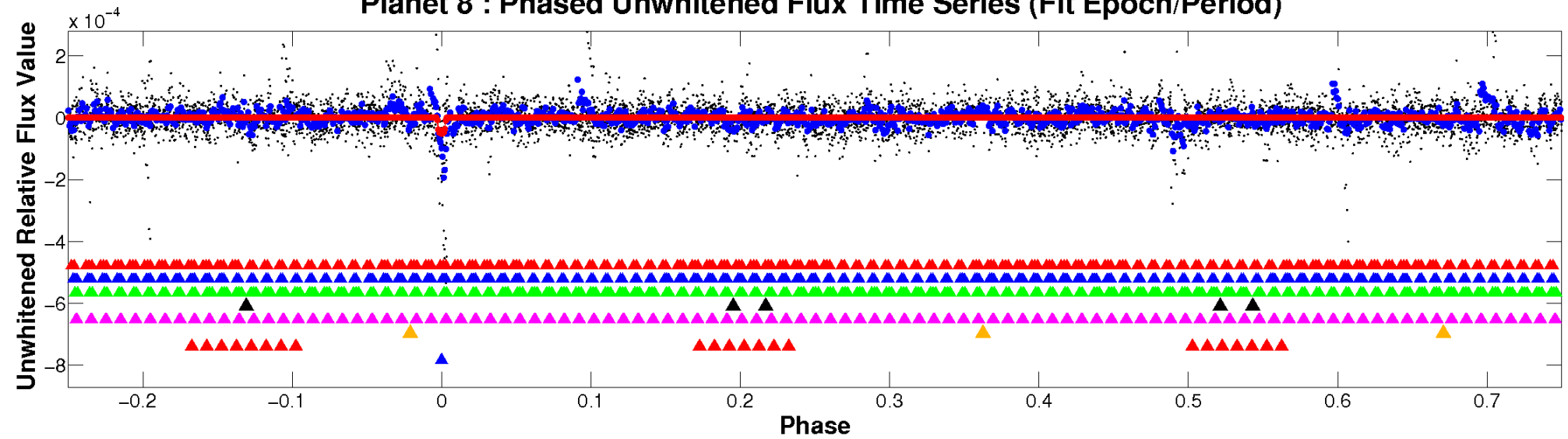
ALT Odd/Even

TCE 010195926-08

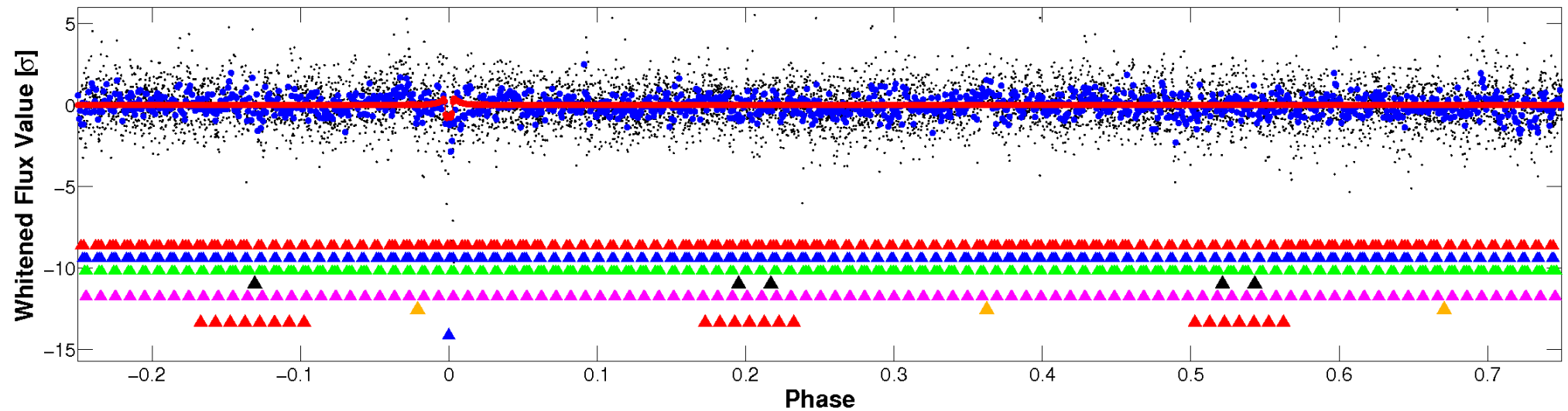


Non-Whitened Vs. Whitened Light Curve

Planet 8 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

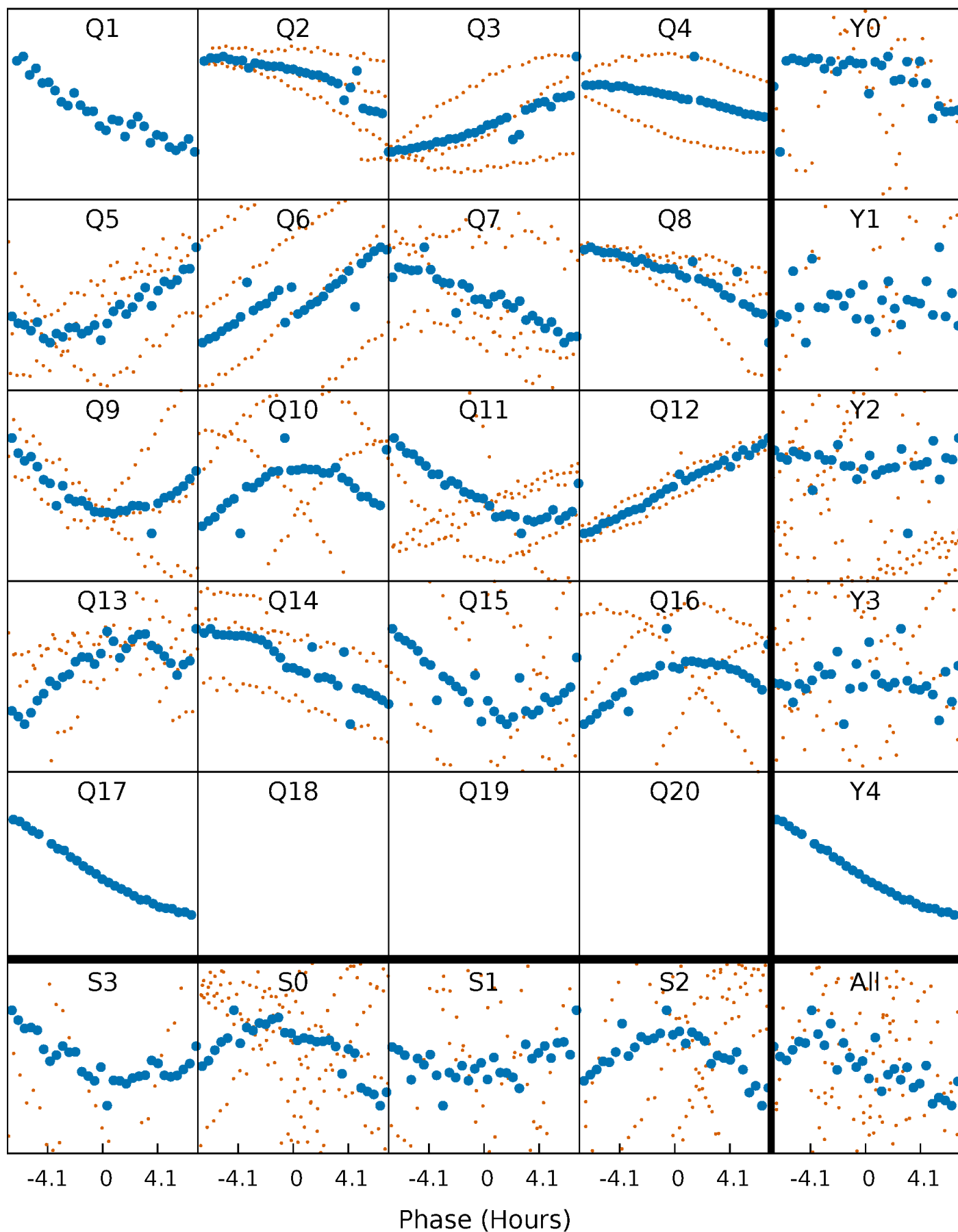


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



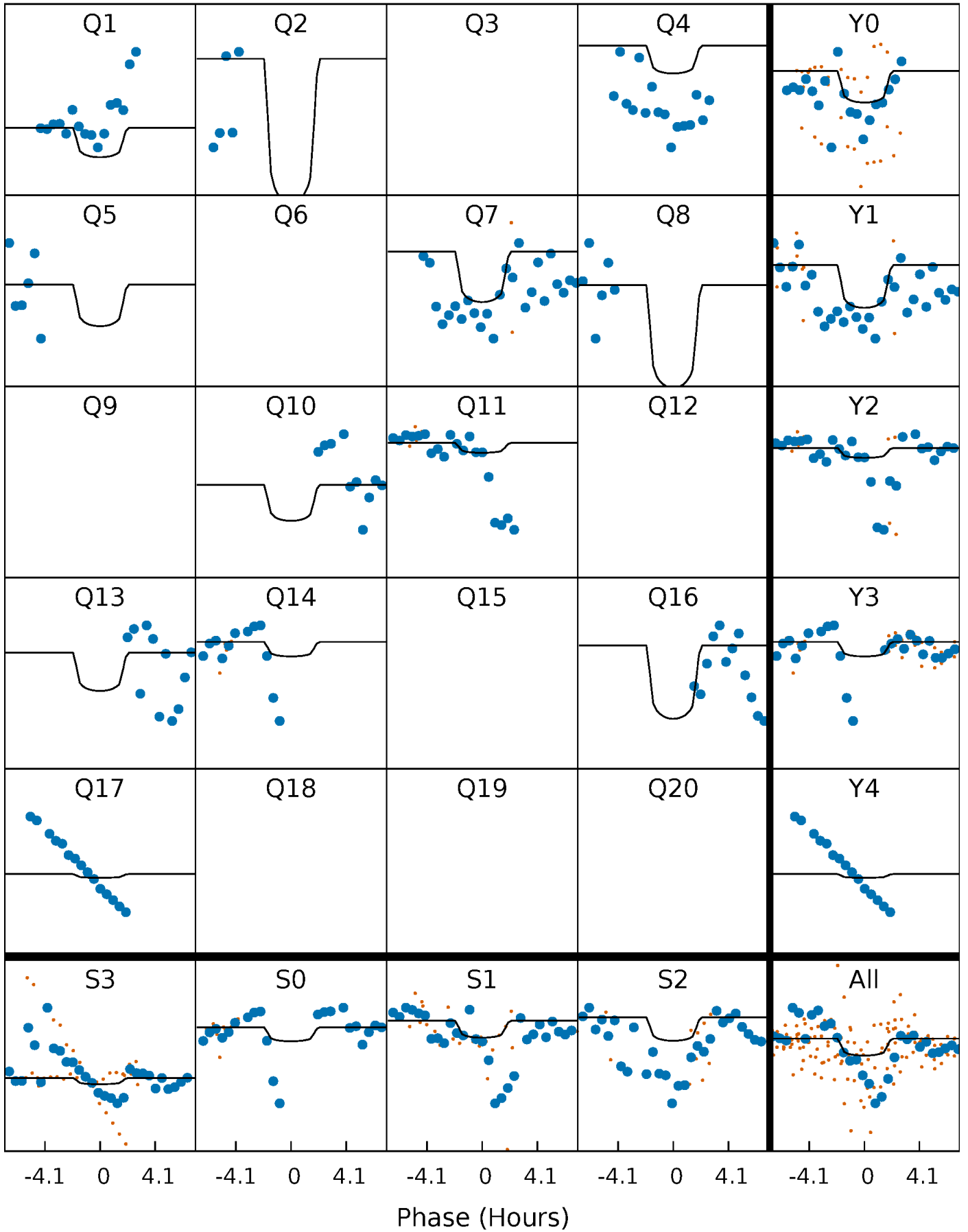
PDC Quarter-Phased Transit Curves

TCE 010195926-08 P= 28.704901 Days $T_0=141.310985$ (BKJD)



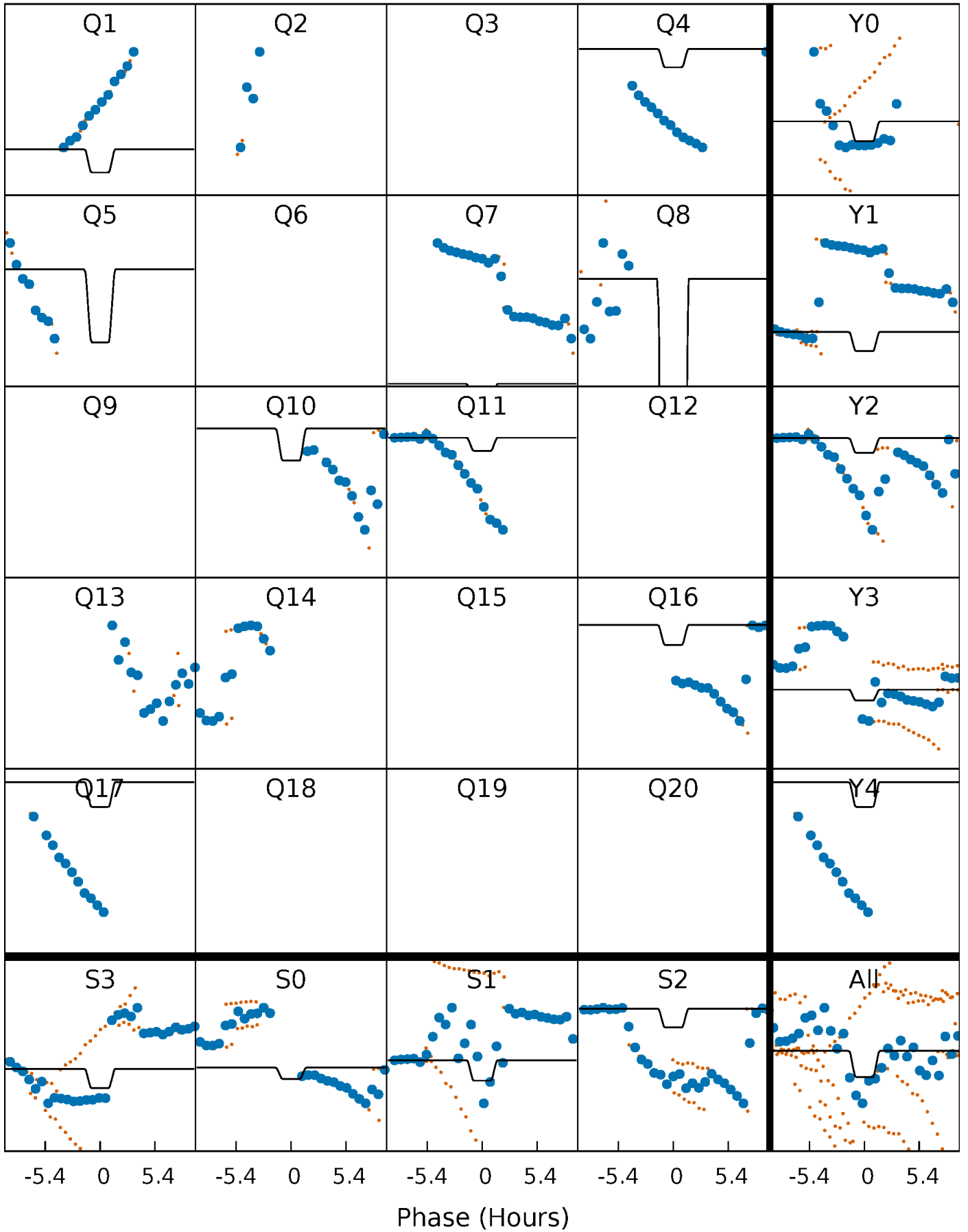
DV Quarter-Phased Transit Curves

TCE 010195926-08 P= 28.704901 Days $T_0=141.310985$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

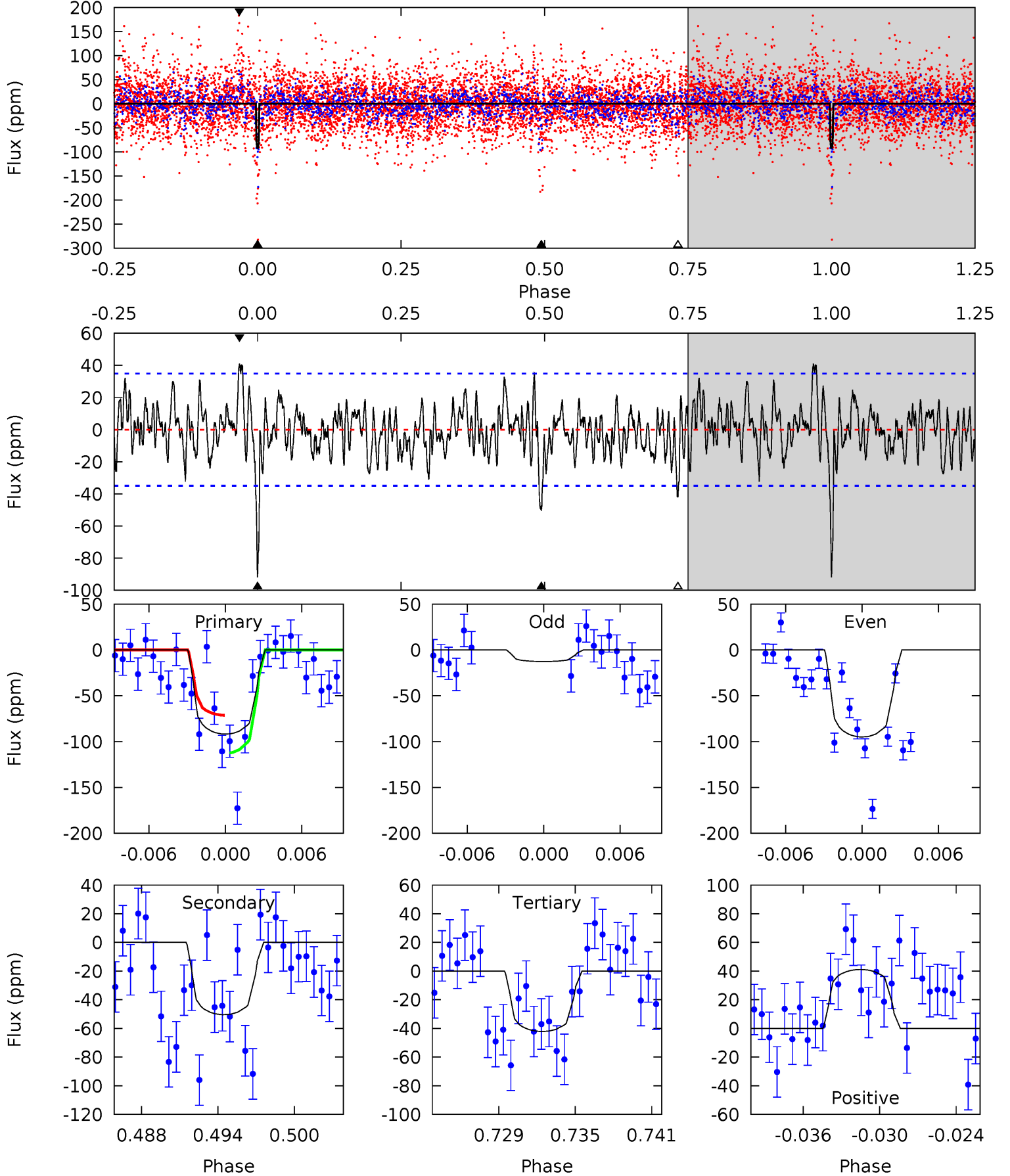
TCE 010195926-08 $P = 28.706724$ Days $T_0 = 141.278605$ (BKJD)



DV Model-Shift Uniqueness Test

010195926-08, P = 28.704901 Days, E = 112.606084 Days

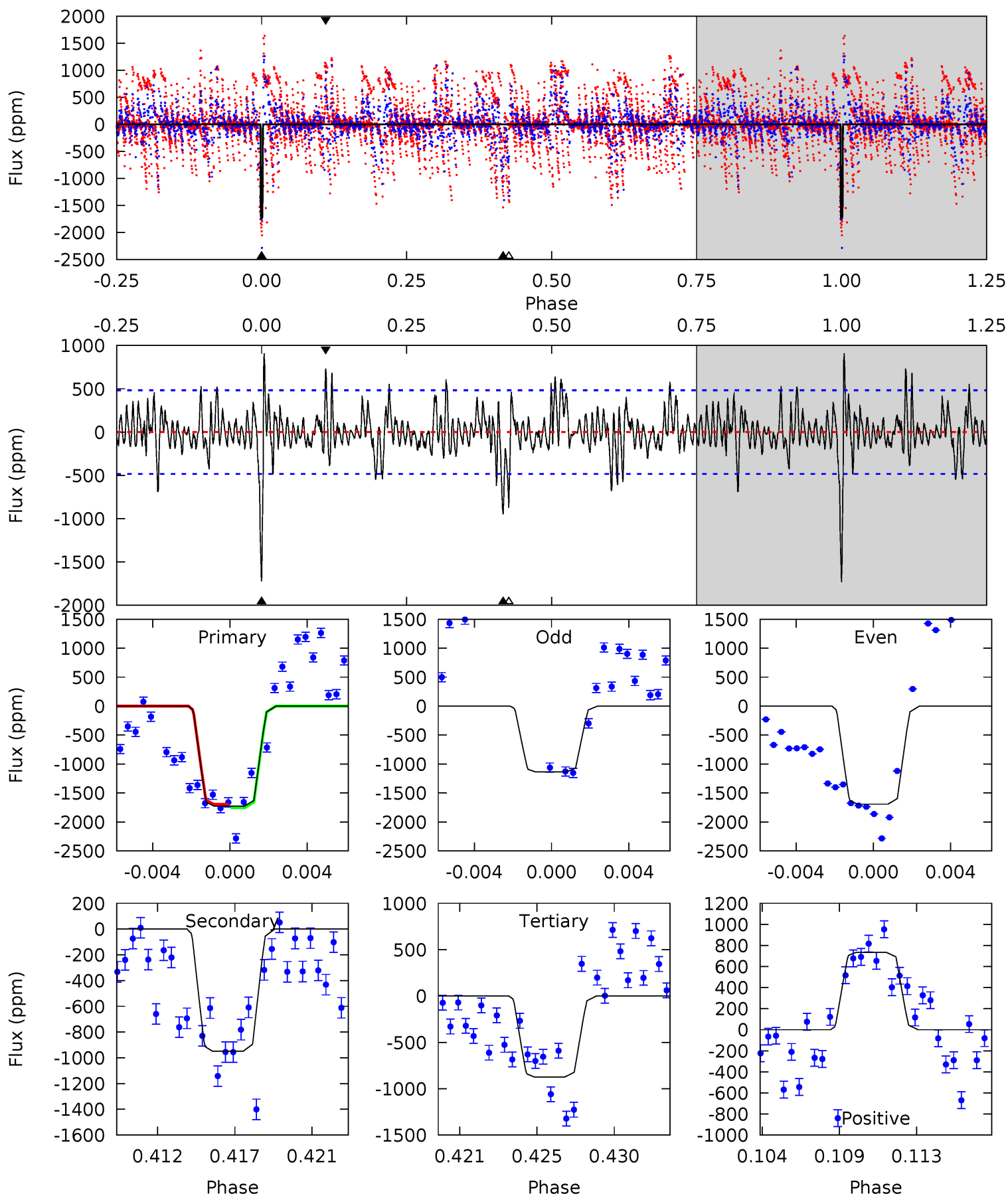
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.5	7.40	6.18	6.03	5.12	2.75	1.80	7.30	7.44	1.22	1.37	3.78	0.84	0.31	2.98



Alt Model-Shift Uniqueness Test

010195926-08, P = 28.706724 Days, E = 112.571881 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.5	10.2	9.38	7.88	5.18	2.85	2.06	9.15	10.6	0.82	2.32	2.36	0.41	0.35	0.34



Stellar Parameters For KIC 010195926

	$T_{\text{eff}} (K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	7620^{+239}_{-319}	$3.633^{+0.561}_{-0.099}$	$-0.520^{+0.300}_{-0.250}$	$3.339^{+0.320}_{-1.812}$	$1.747^{+0.187}_{-0.468}$	$0.066^{+0.482}_{-0.019}$
	+3%/-4%	+15%/-3%	+58%/-48%	+10%/-54%	+11%/-27%	+729%/-29%
Source	KIC0	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 010195926-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-50 ± 7	$4.14^{+4.49}_{-2.82}$	1782^{+111}_{-221}	5554^{+5684}_{-1329}	78^{+758}_{-60}
Alt.	-949 ± 93	$6.77^{+4.78}_{-4.20}$	1783^{+120}_{-217}	9761^{+12806}_{-2634}	534^{+3207}_{-346}

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

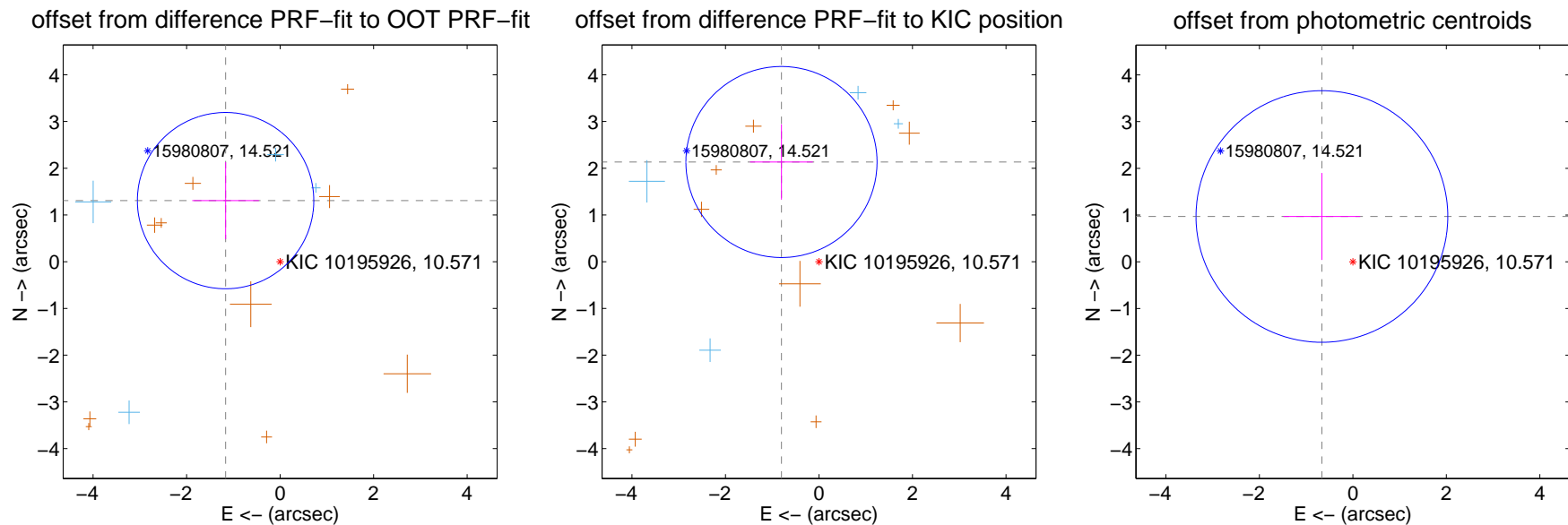
DV Centroid Data

Supplemental centroid analysis for 010195926-08. **Kepler magnitude: 10.57.** Transit SNR 4.79

There are 4 quarters with good PRF difference image offsets

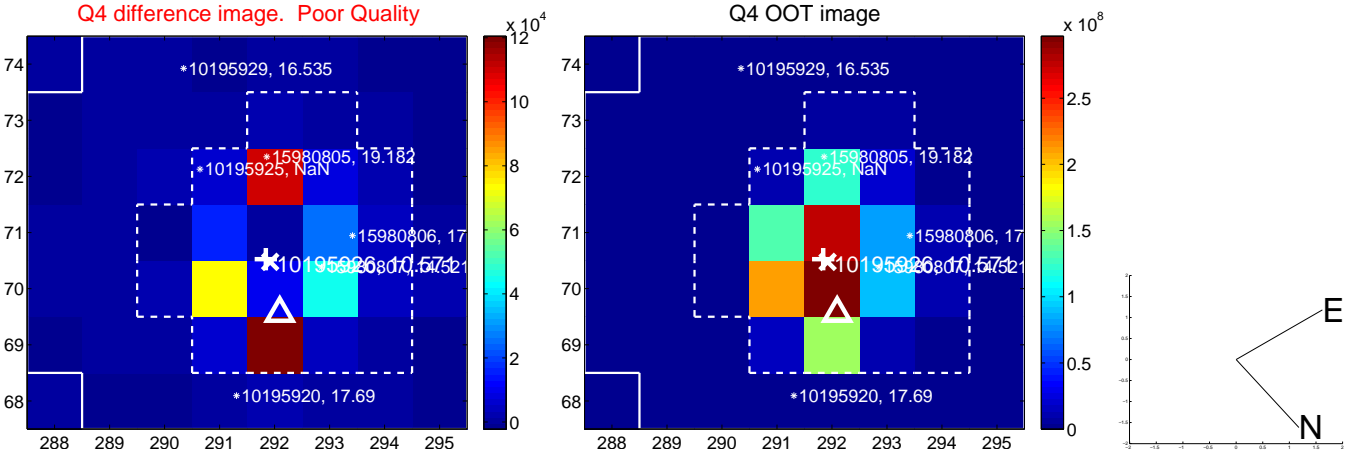
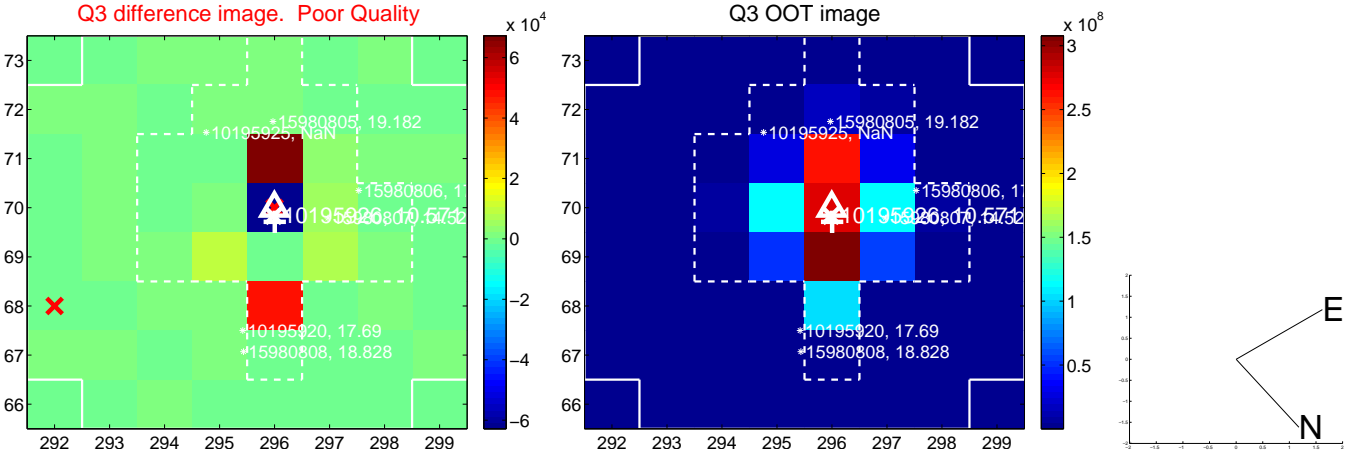
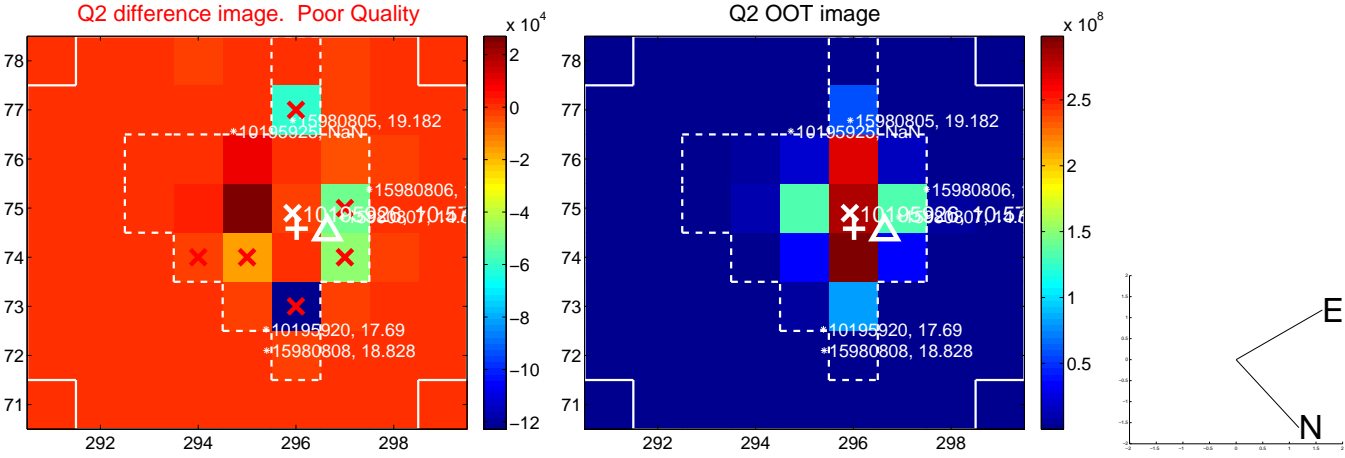
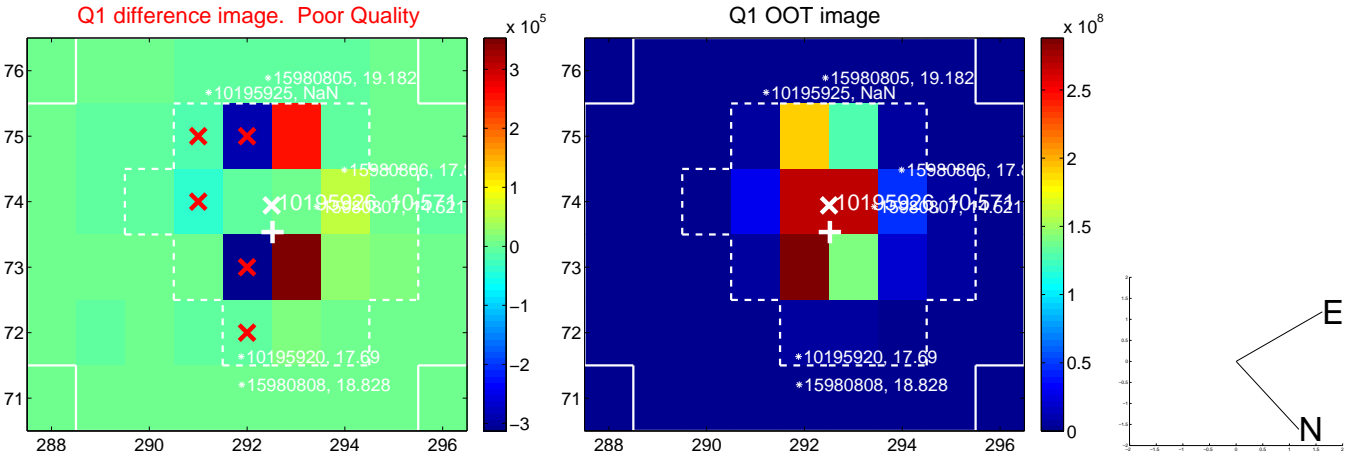
The direct PRF centroid is offset from the target star catalog position by about 1.60 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.752 ± 0.629	2.79	1.166 ± 0.713	1.307 ± 0.825
PRF-fit source offset from KIC position	2.280 ± 0.681	3.35	0.803 ± 0.672	2.134 ± 0.807
photometric centroid source offset	1.17 ± 0.90	1.31	0.66 ± 0.82	0.97 ± 0.93

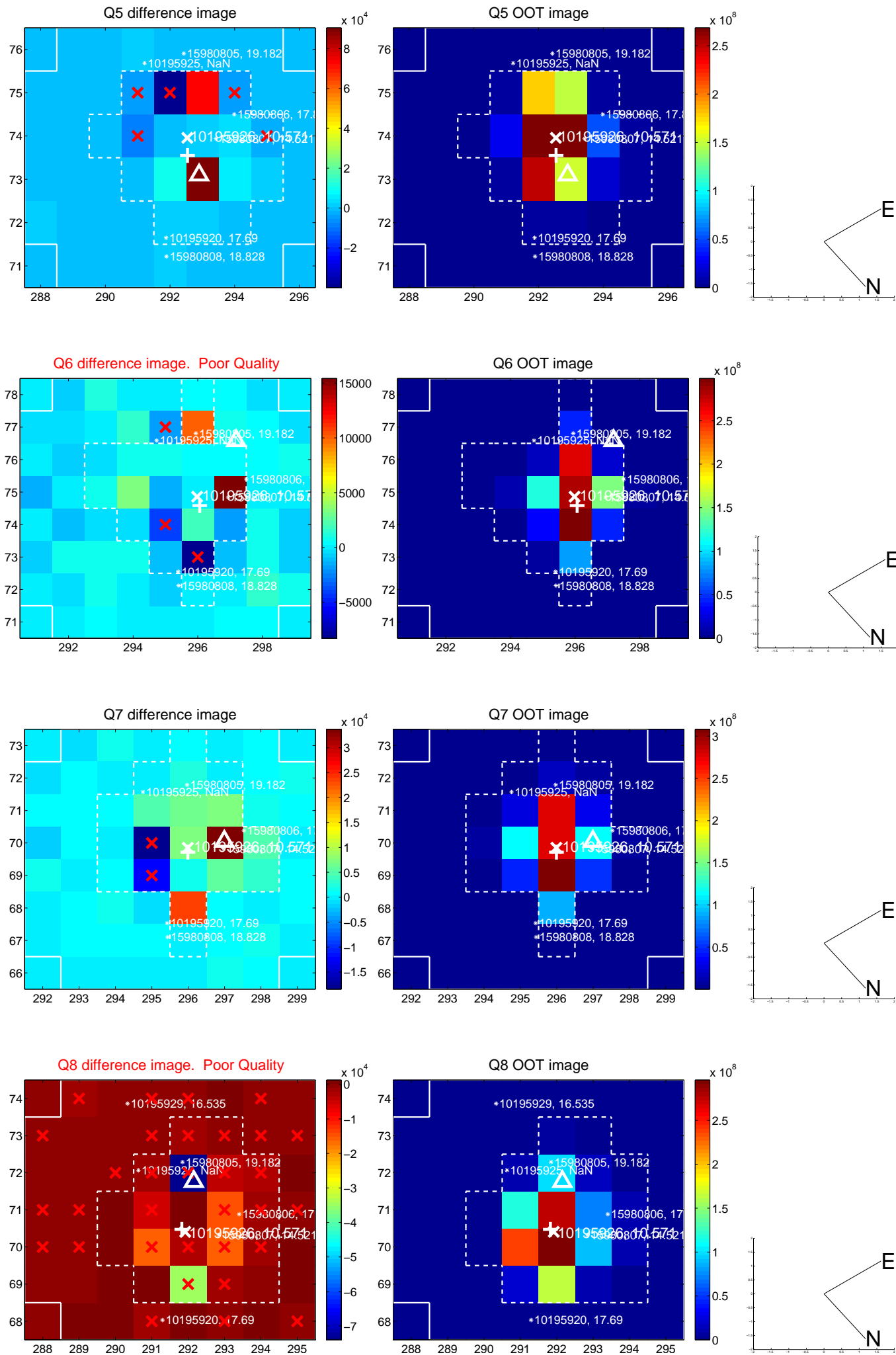


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

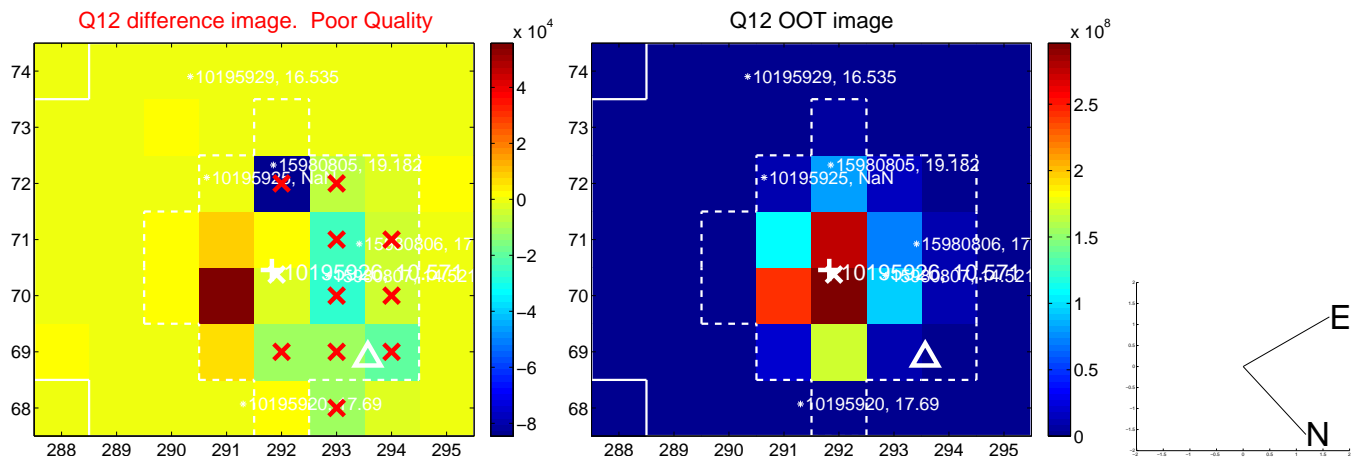
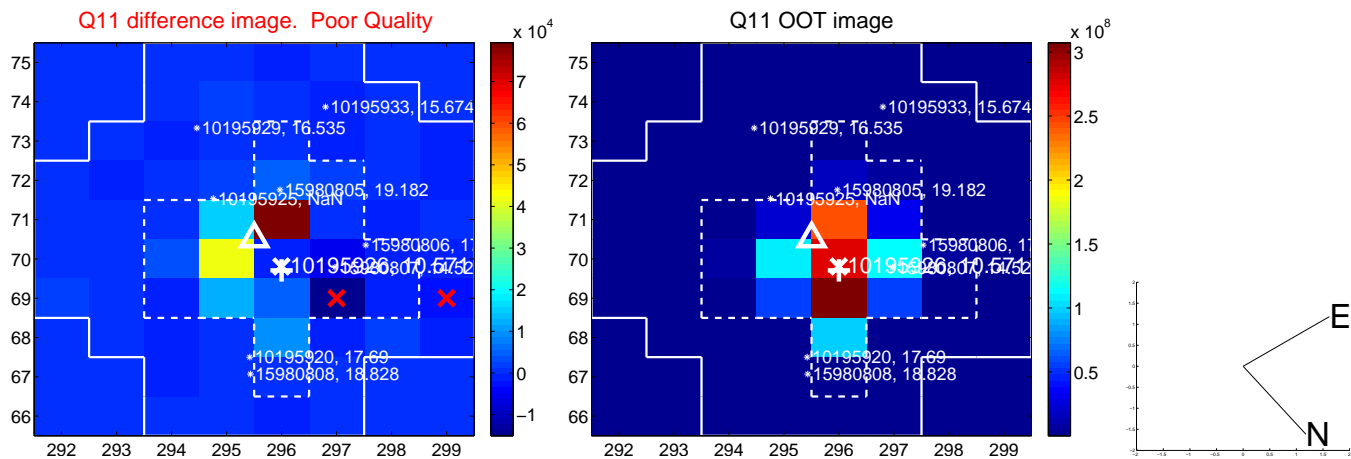
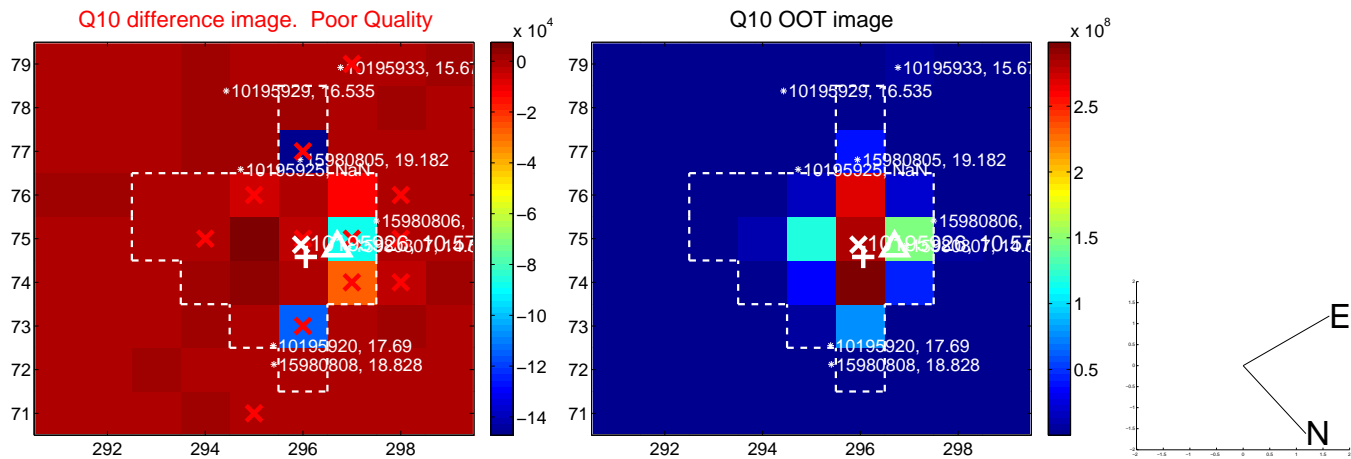
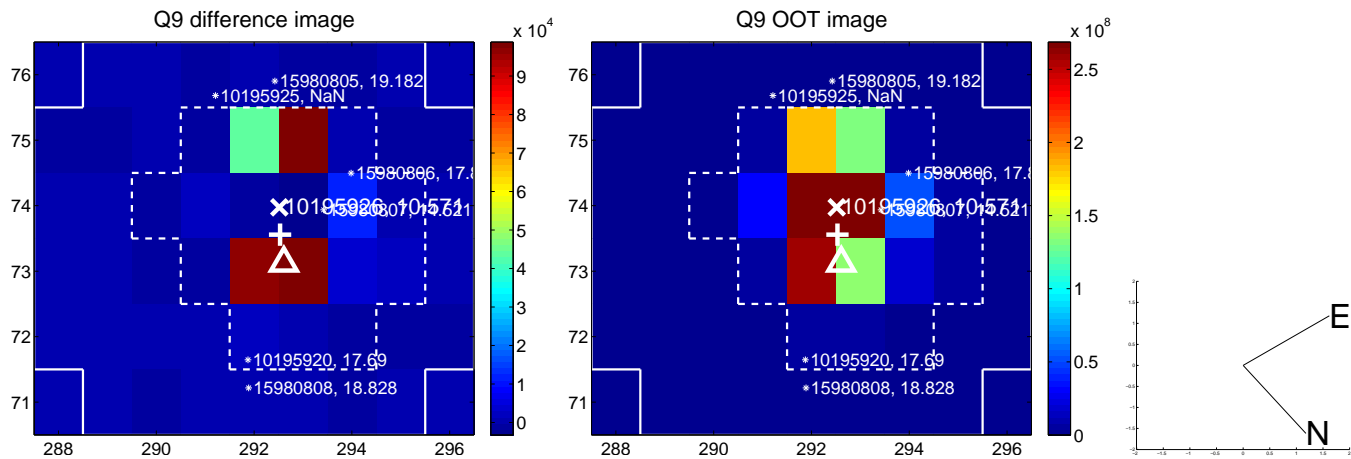
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



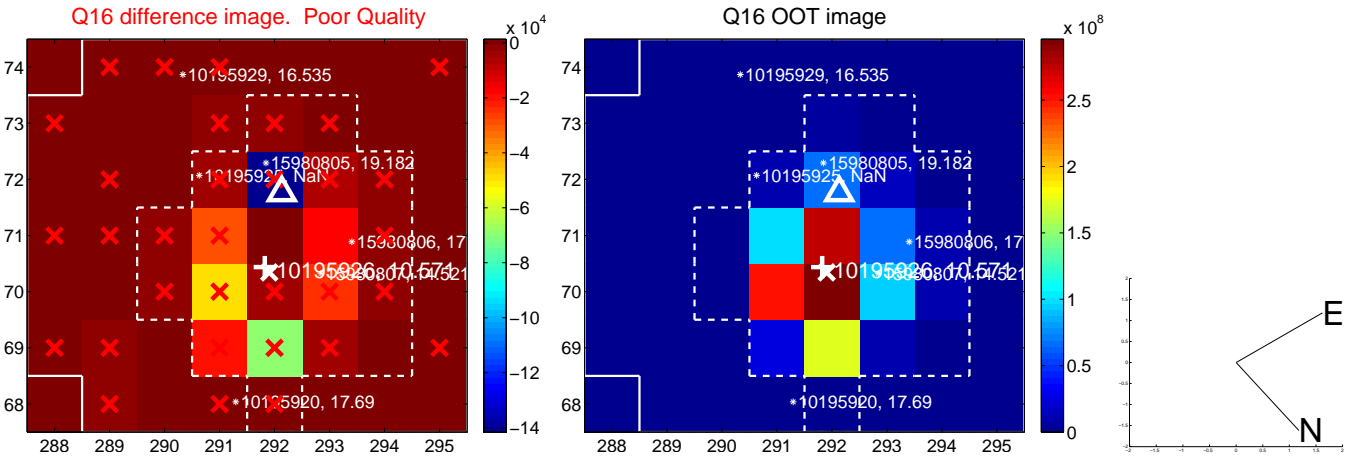
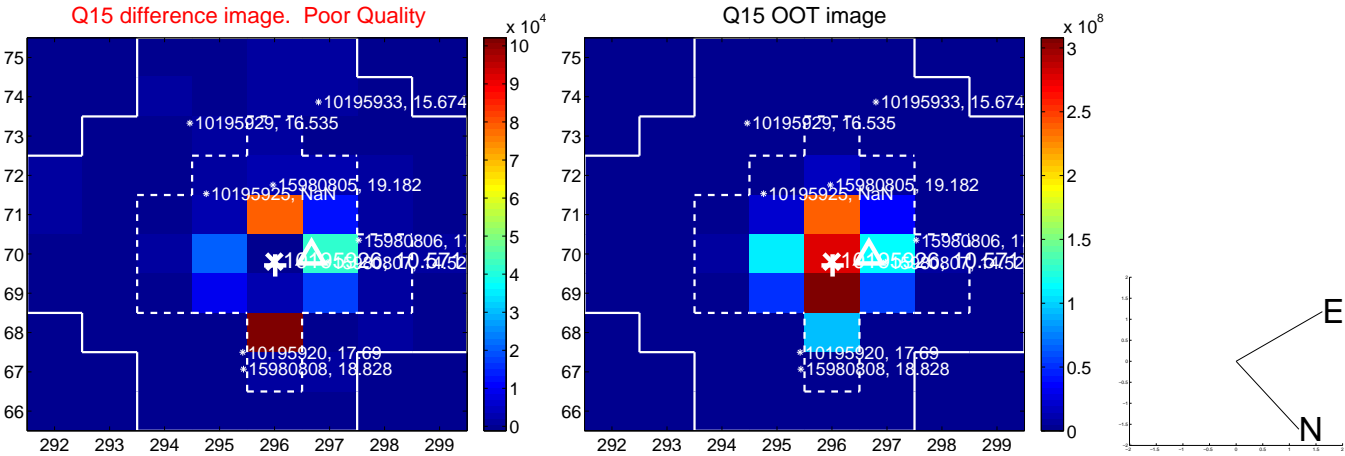
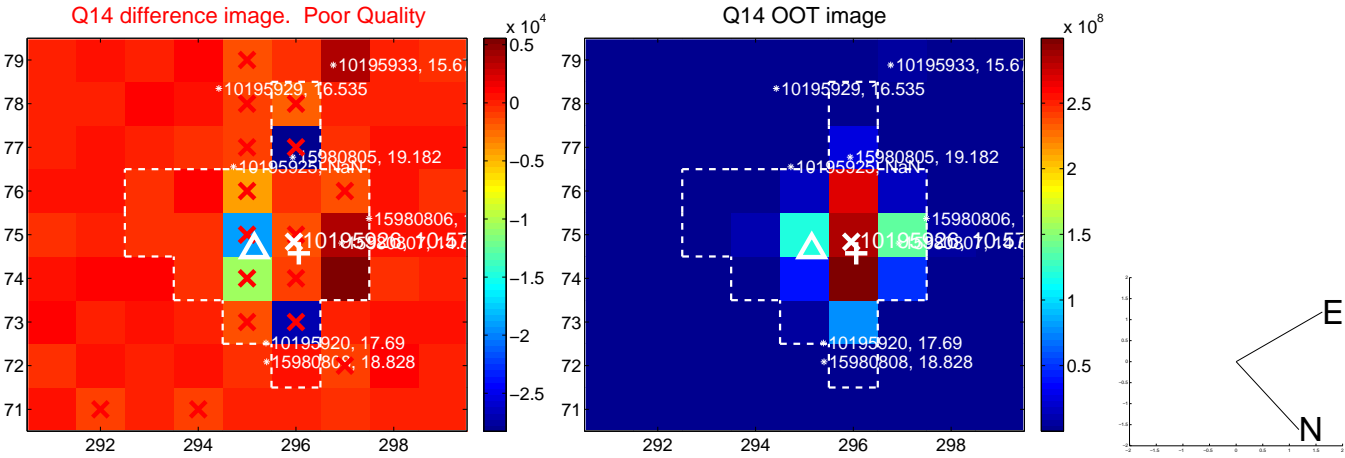
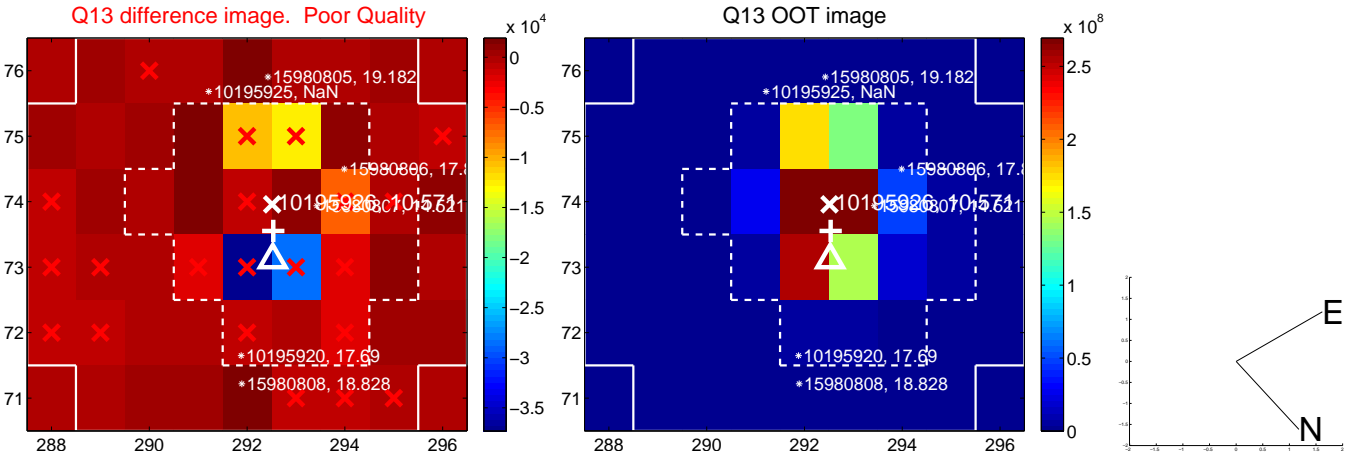
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



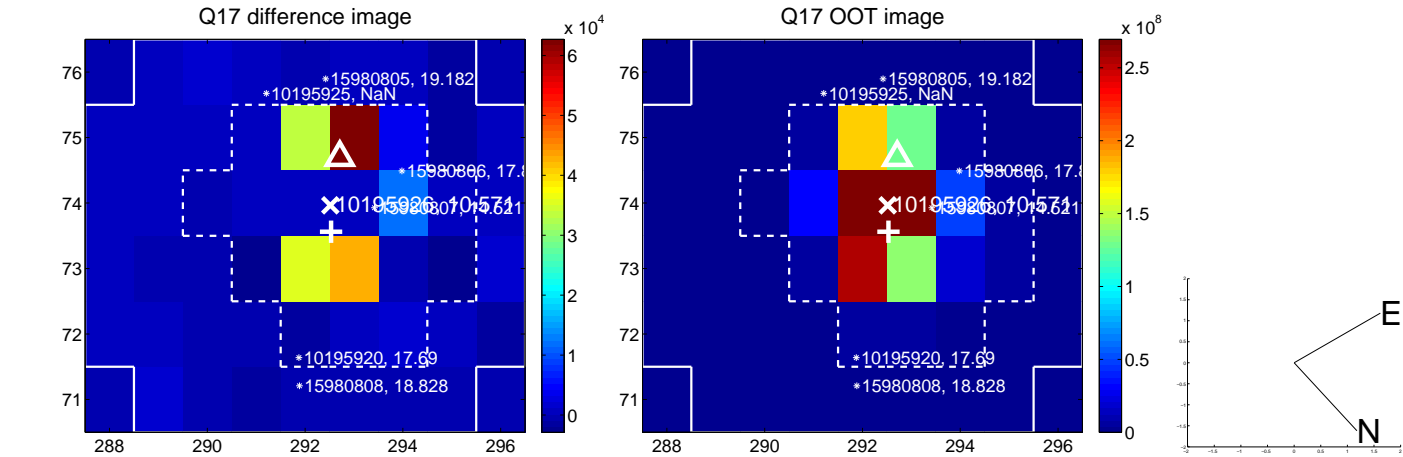
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



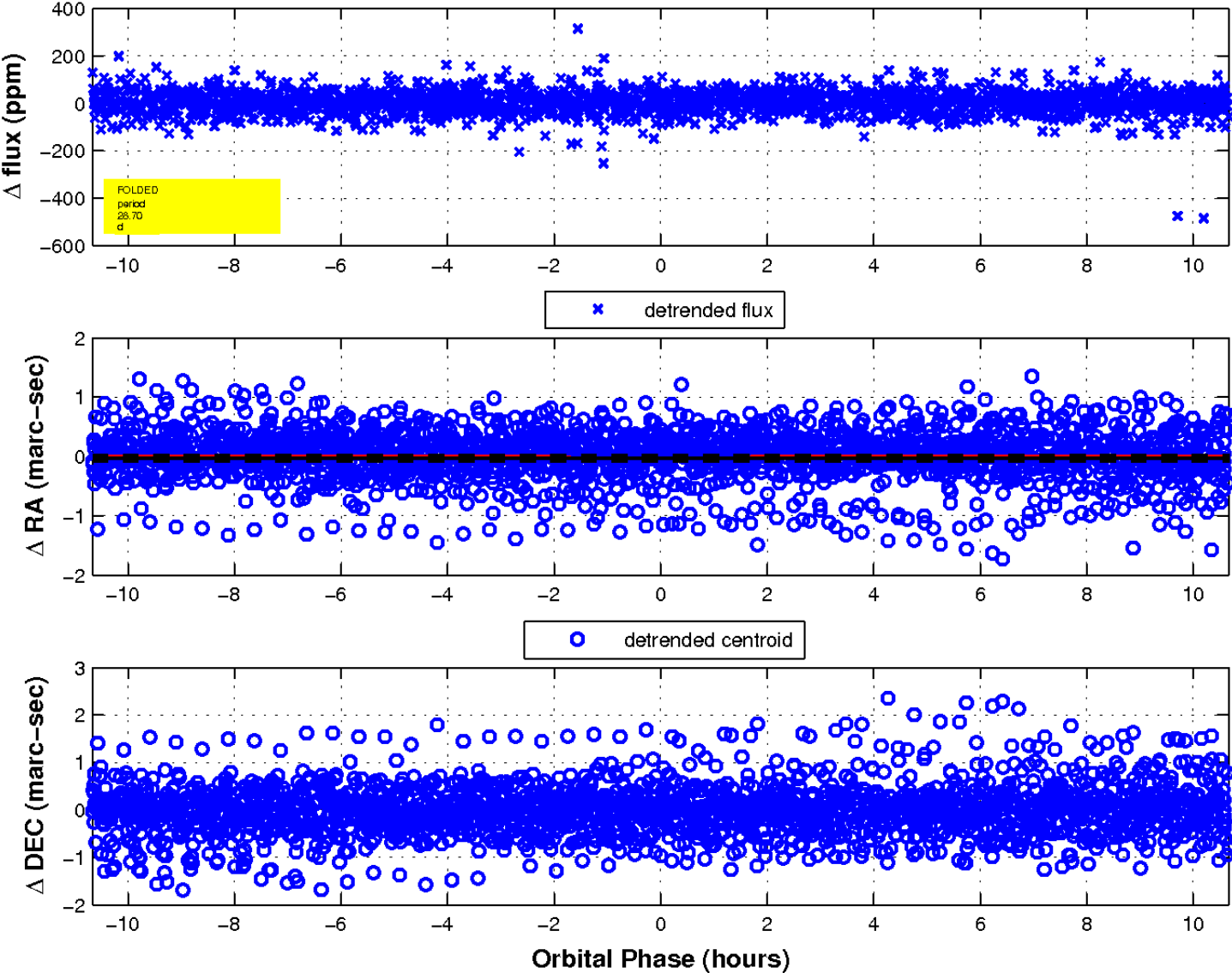
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 8 of 8



UKIRT Image

Declination

