

KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

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

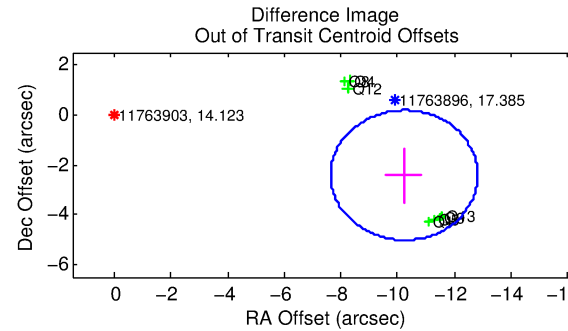
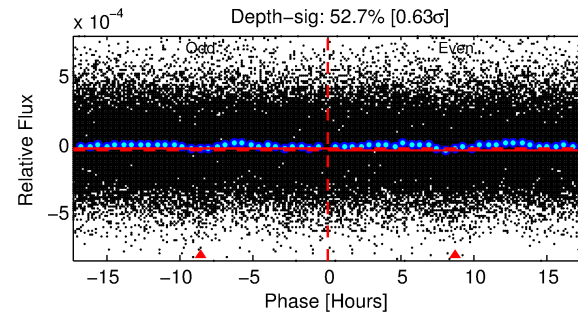
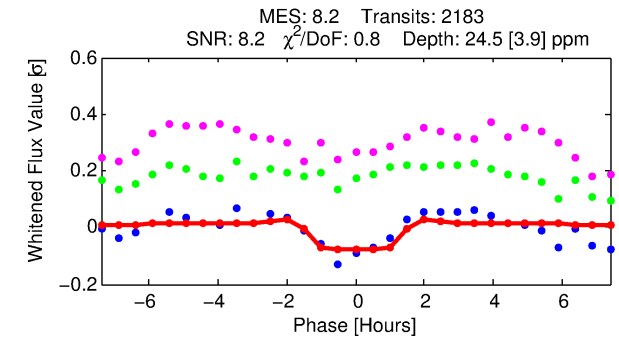
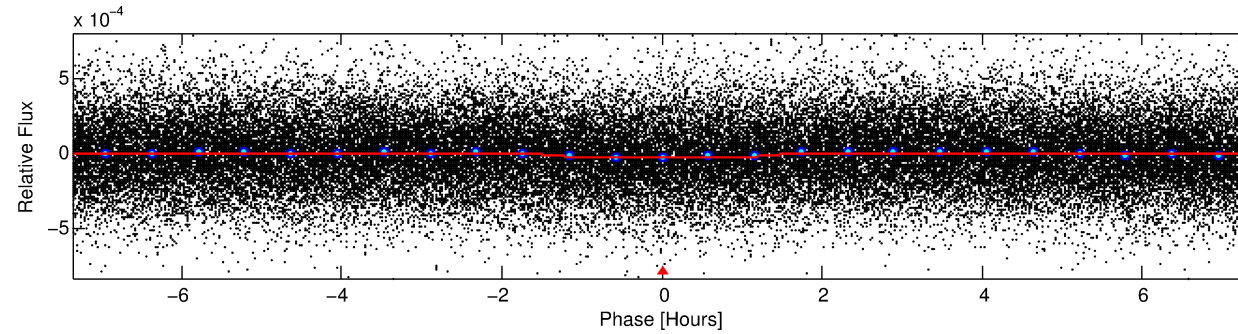
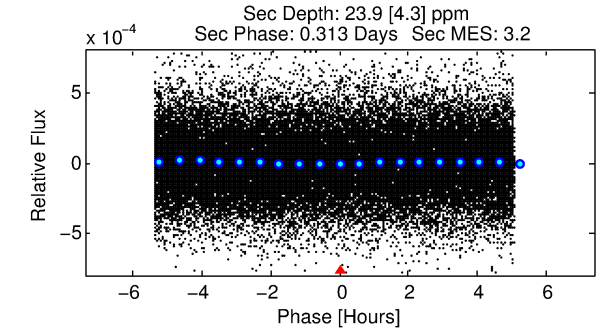
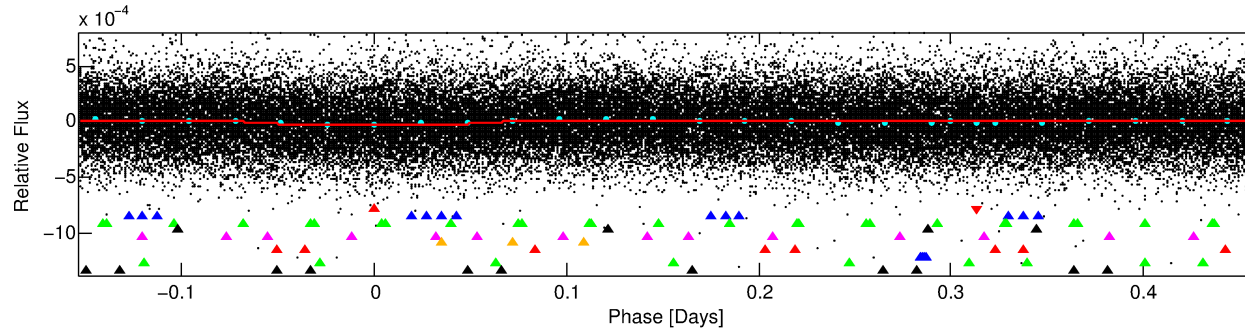
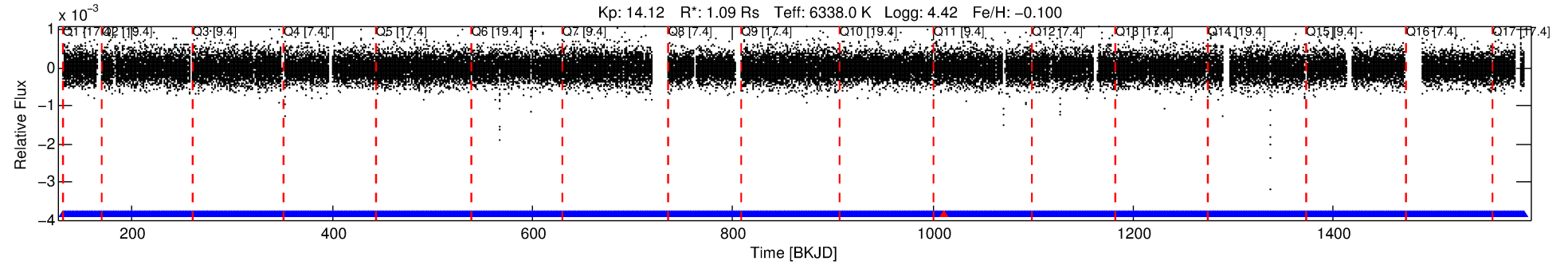
Ephemeris Match Information For 011763903-01

TCE (1)	KIC	Parent (2)	Parent KIC	P ₁ :P ₂	Dist (″)	ΔRow	ΔCol	m ₂	m ₁	D ₂ /D ₁	Mechanism	Flag	σ _P	σ _T
011763903-01	11763903	7477.01	11763910	1:1	10.1	2	2	13.72	14.12	1.71	Direct-PRF	0	4.21	1.31

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

DV One-Page Summary

KIC: 11763903 Candidate: 1 of 10 Period: 0.613 d



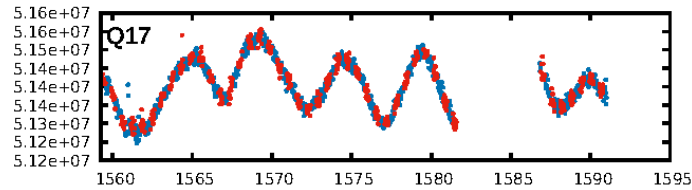
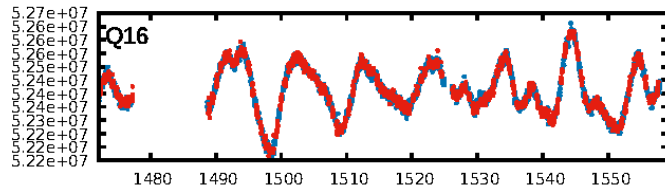
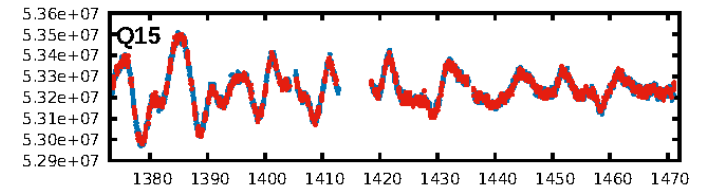
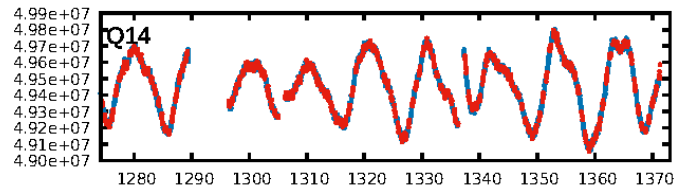
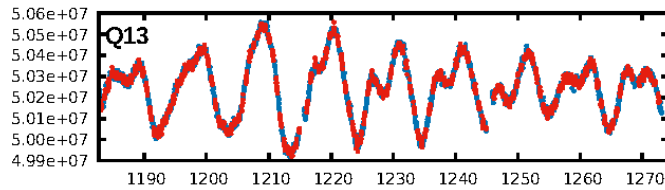
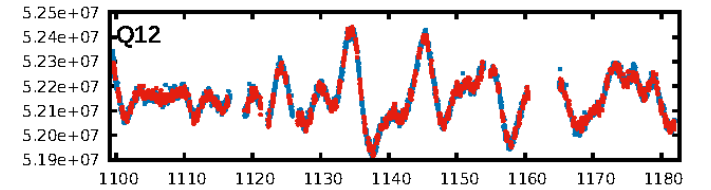
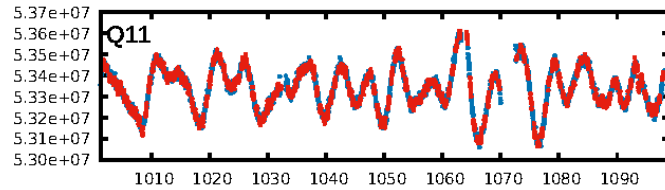
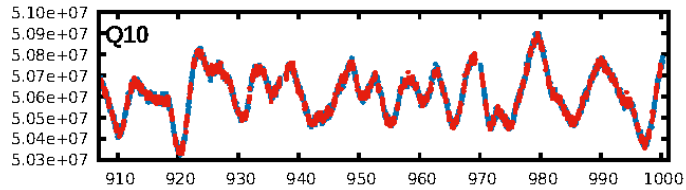
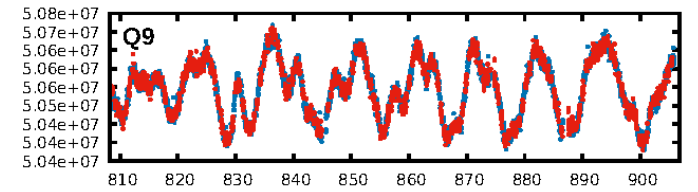
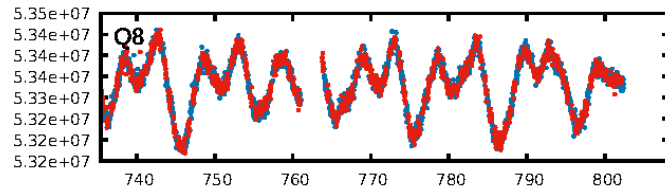
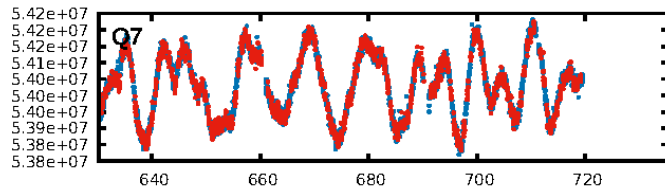
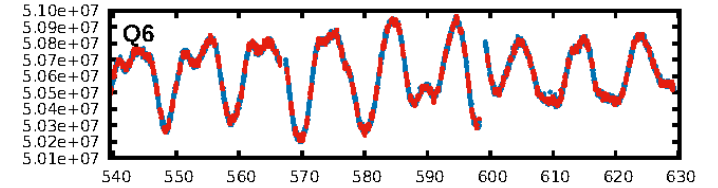
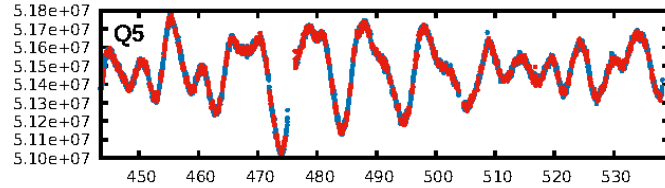
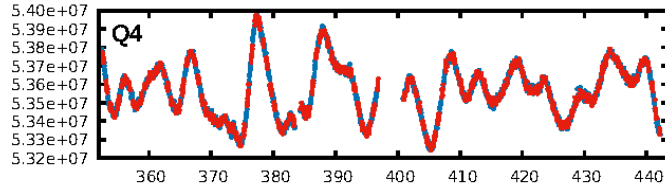
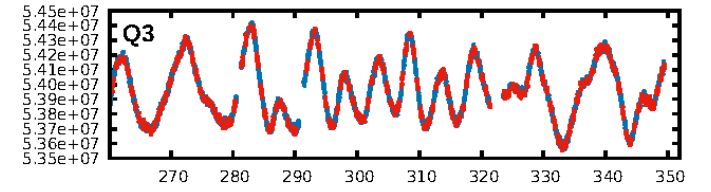
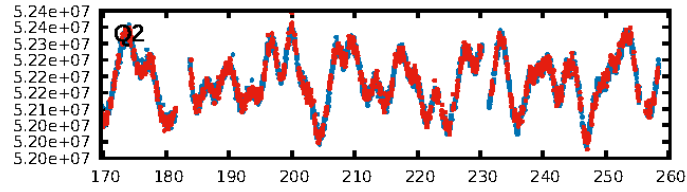
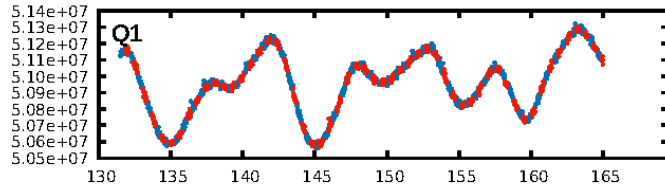
DV Fit Results:

Period = 0.61291 [0.00001] d
Epoch = 131.9472 [0.0034] BKJD
Rp/R* = 0.0048 [0.0017]
a/R* = 1.48 [1.46]
b = 0.65 [1.65]
Seff = 7919.91 [3045.10]
Teq = 2406 [231] K
Rp = 0.57 [0.27] Re
a = 0.0147 [0.0037] AU
Ag = 8.75 [7.18] [1.08σ]
Teff = 6397 [1197] K [3.27σ]

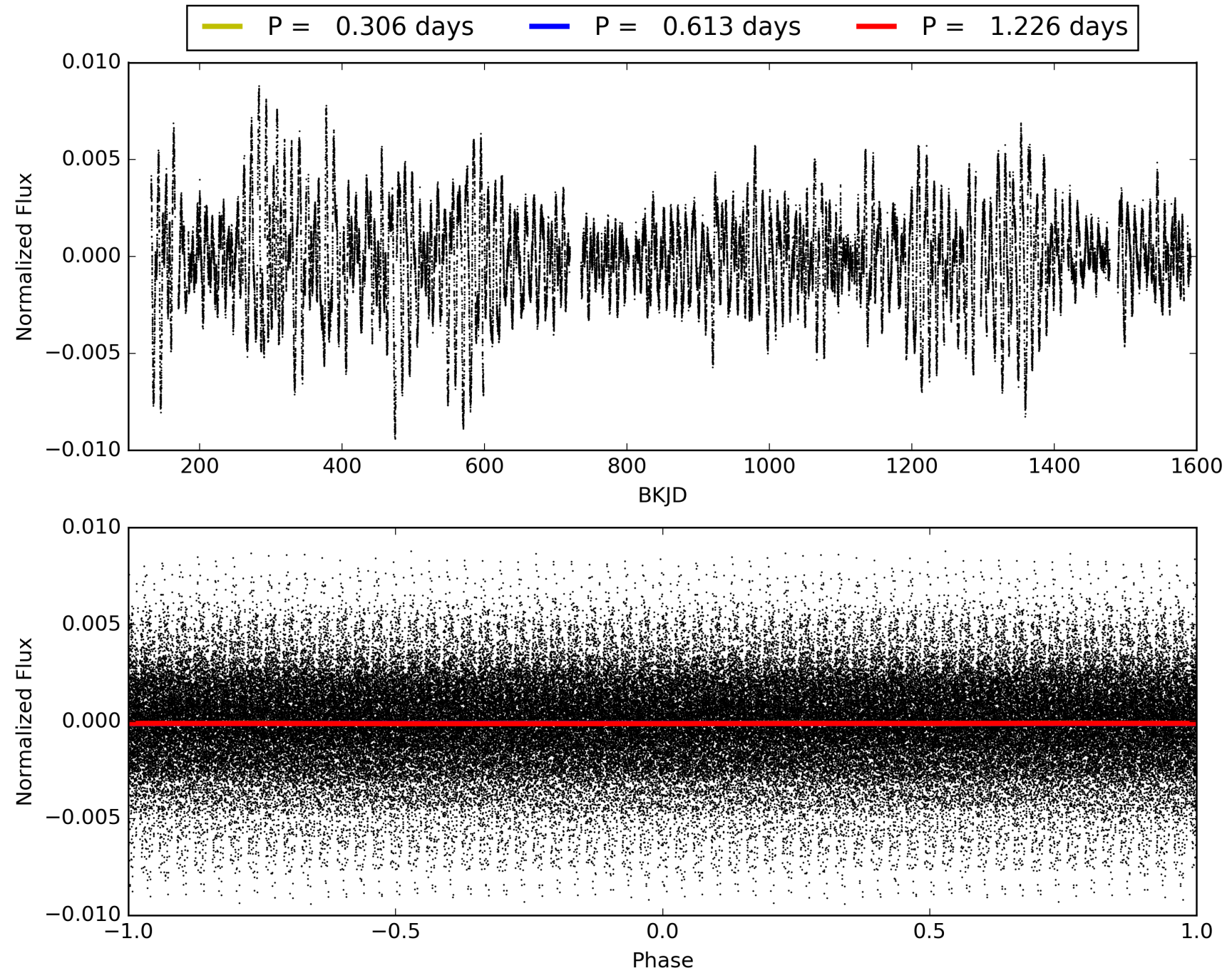
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [192.18σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGoF-sig: N/A
Bootstrap-pfa: 7.68e-15
RollingBand-fgt: 1.00 [2083/2084]
GhostDiagnostic-chr: -0.5267
Centroid-sig: 0.0%
Centroid-so: 6.079 arcsec [5.67σ]
OotOffset-rm: 10.520 arcsec [12.13σ]
KicOffset-rm: 8.239 arcsec [23.33σ]
OotOffset-st: 0/0/3/4 [7]
KicOffset-st: 0/0/3/4 [7]
DiffImageQuality-fgm: 1.00 [7/7]
DiffImageOverlap-fno: 1.00 [17/17]

TCE 011763903-01, PDC Light Curves

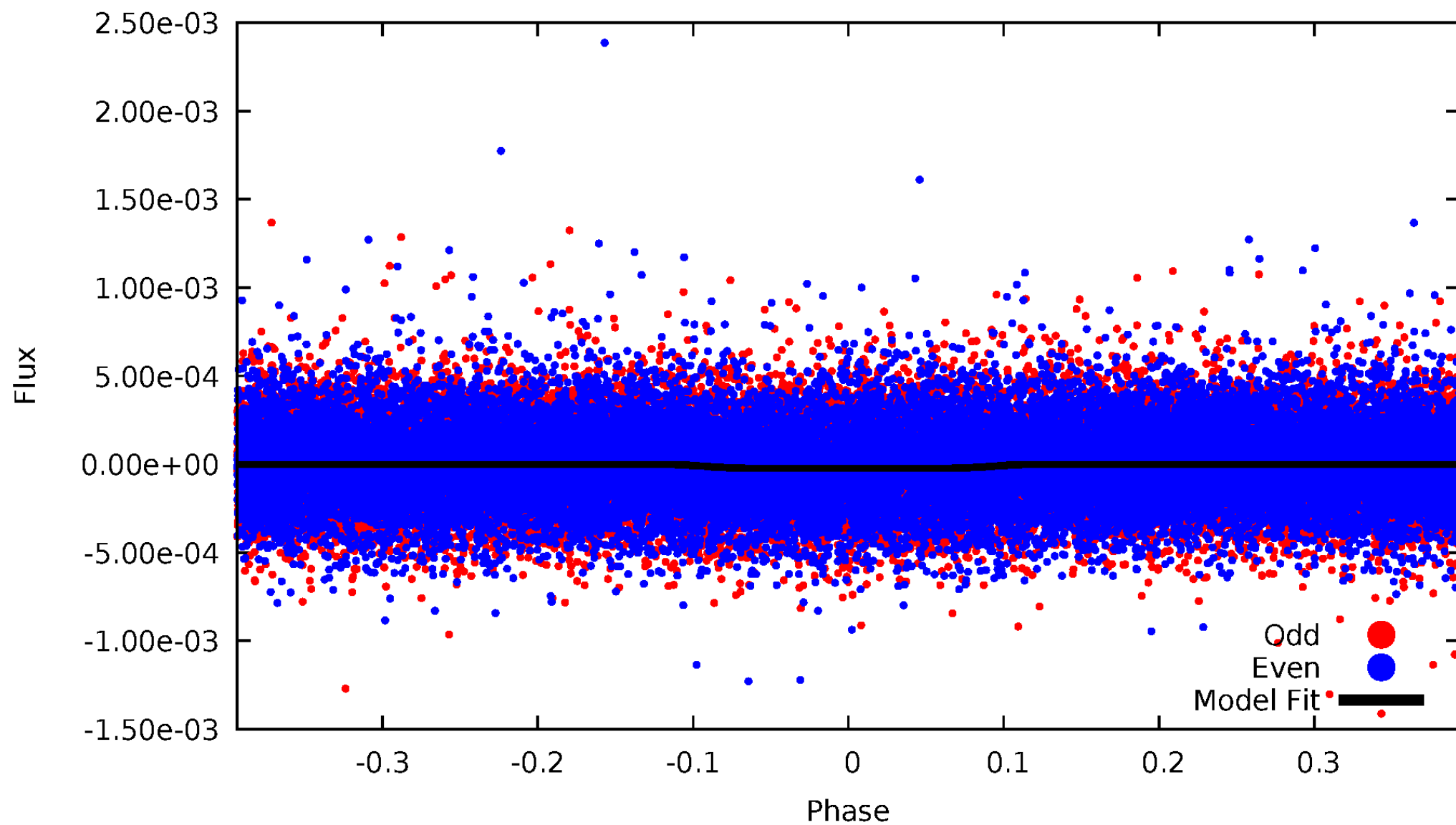


TCE 011763903-01



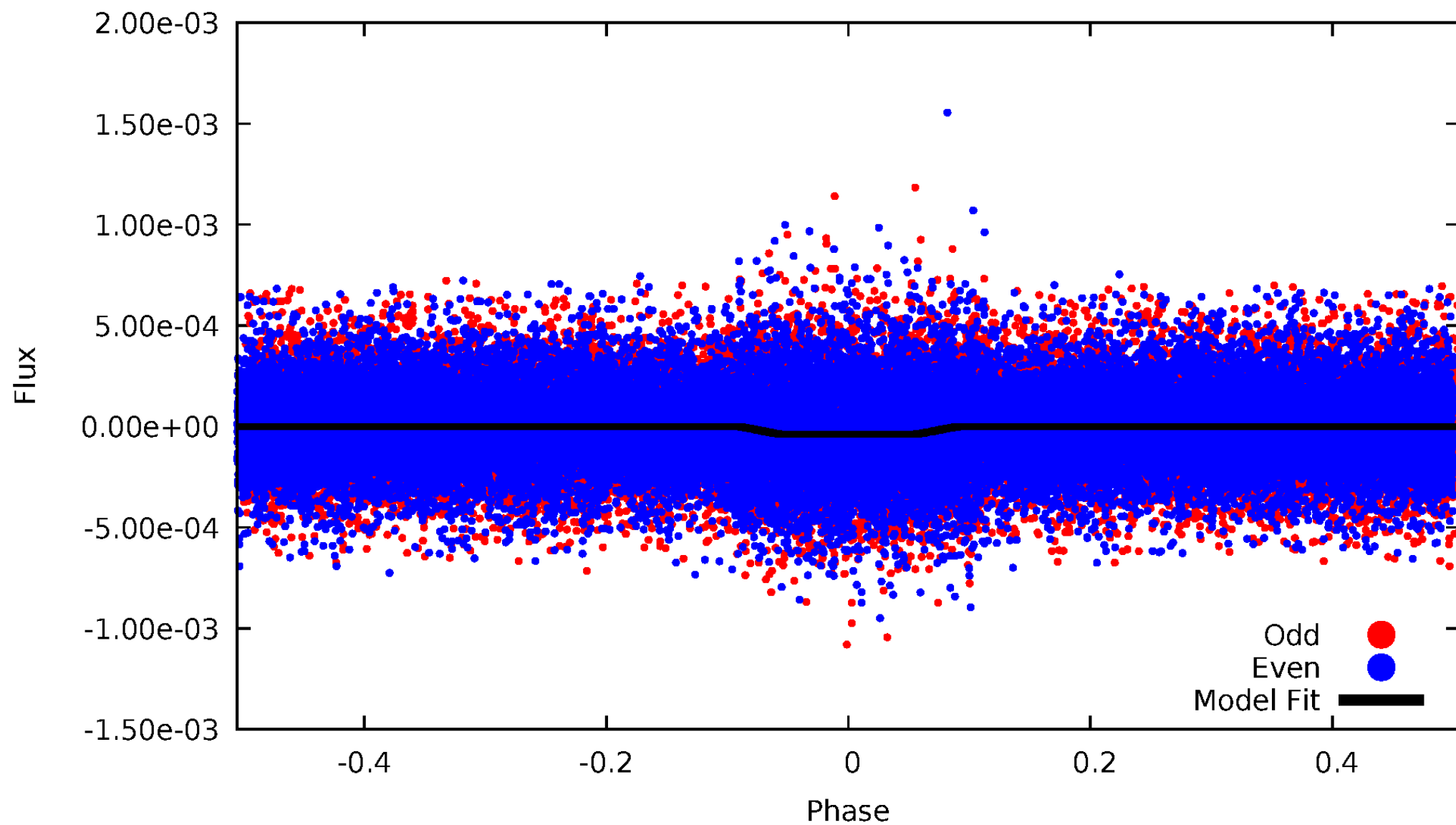
DV Odd/Even

TCE 011763903-01



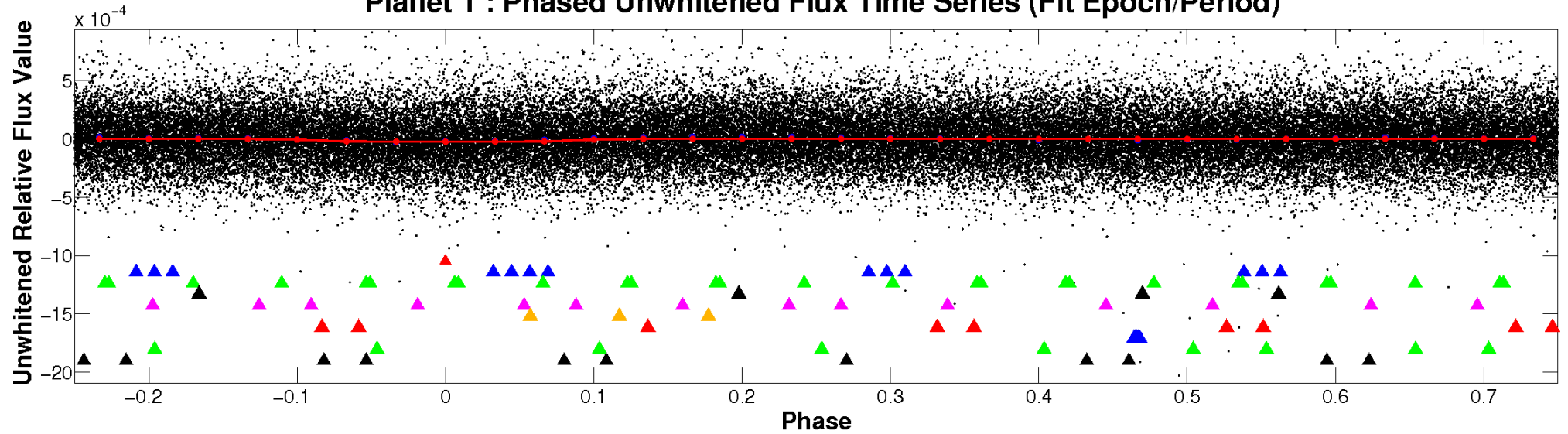
ALT Odd/Even

TCE 011763903-01

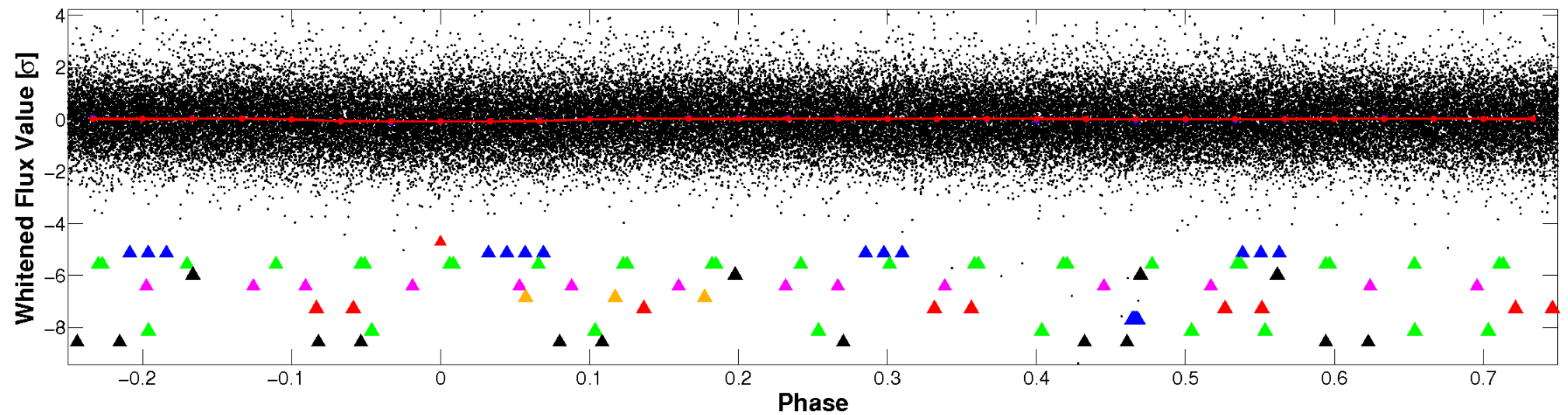


Non-Whitened Vs. Whitened Light Curve

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

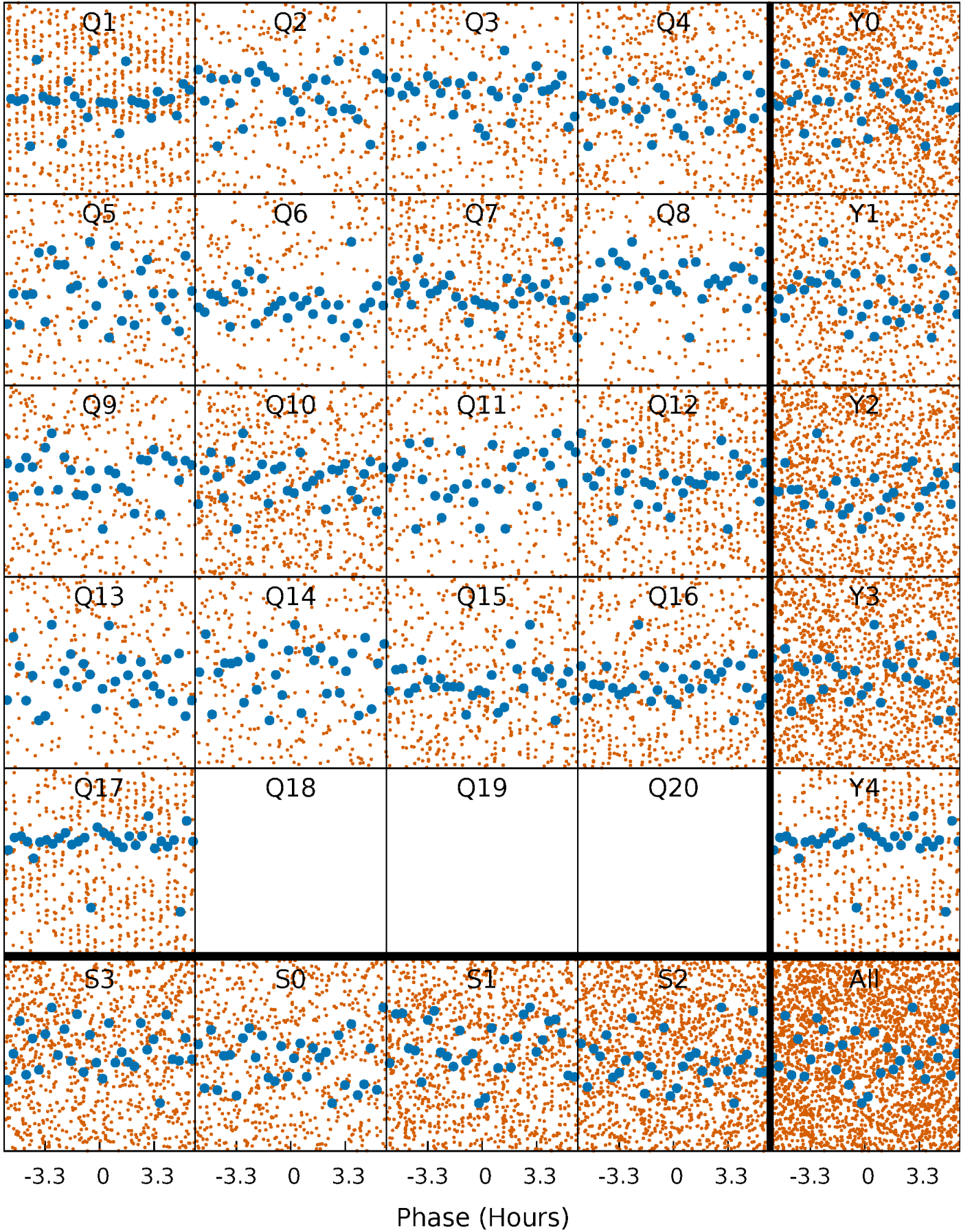


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



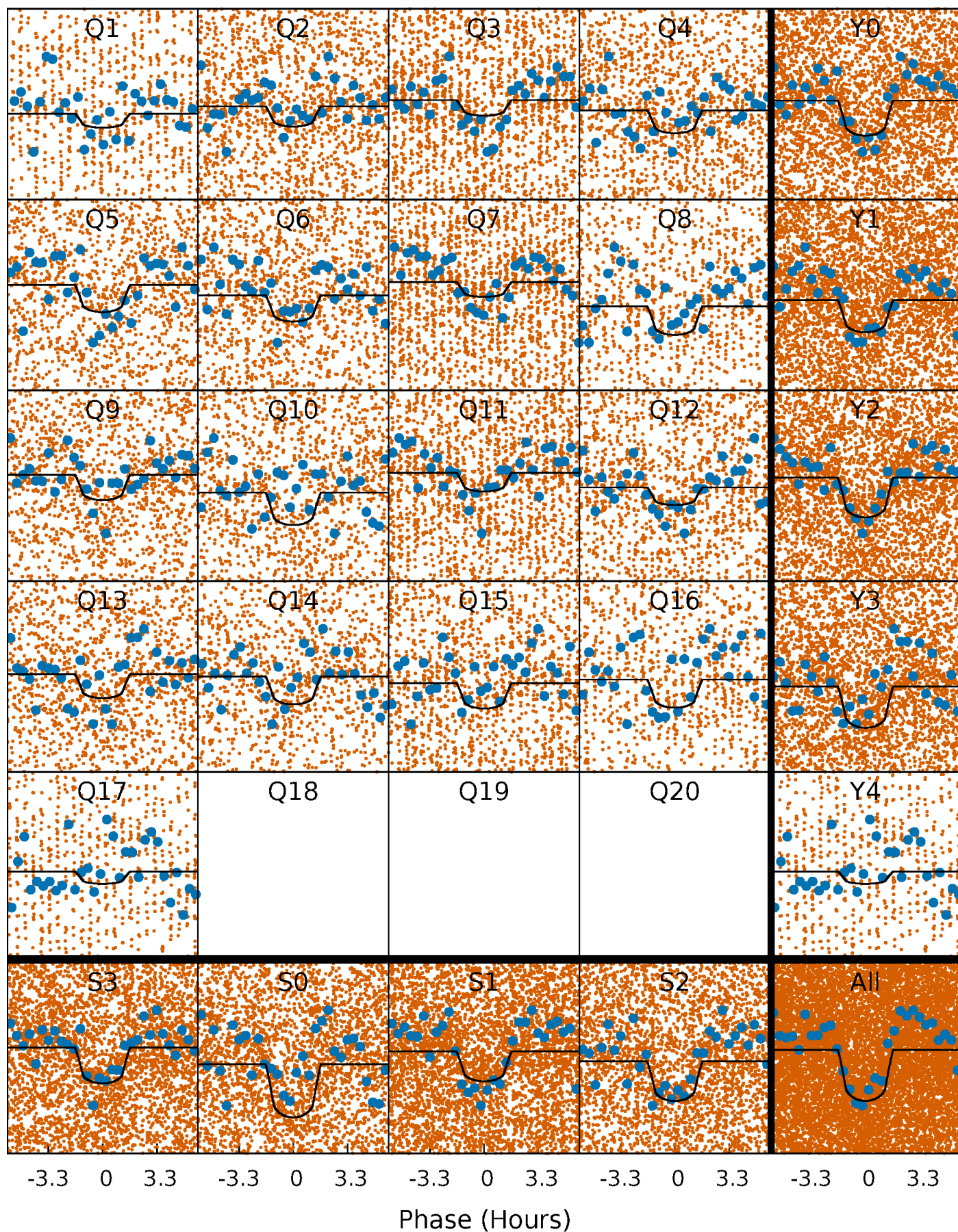
PDC Quarter-Phased Transit Curves

TCE 011763903-01 P= 0.612914 Days $T_0=131.947198$ (BKJD)



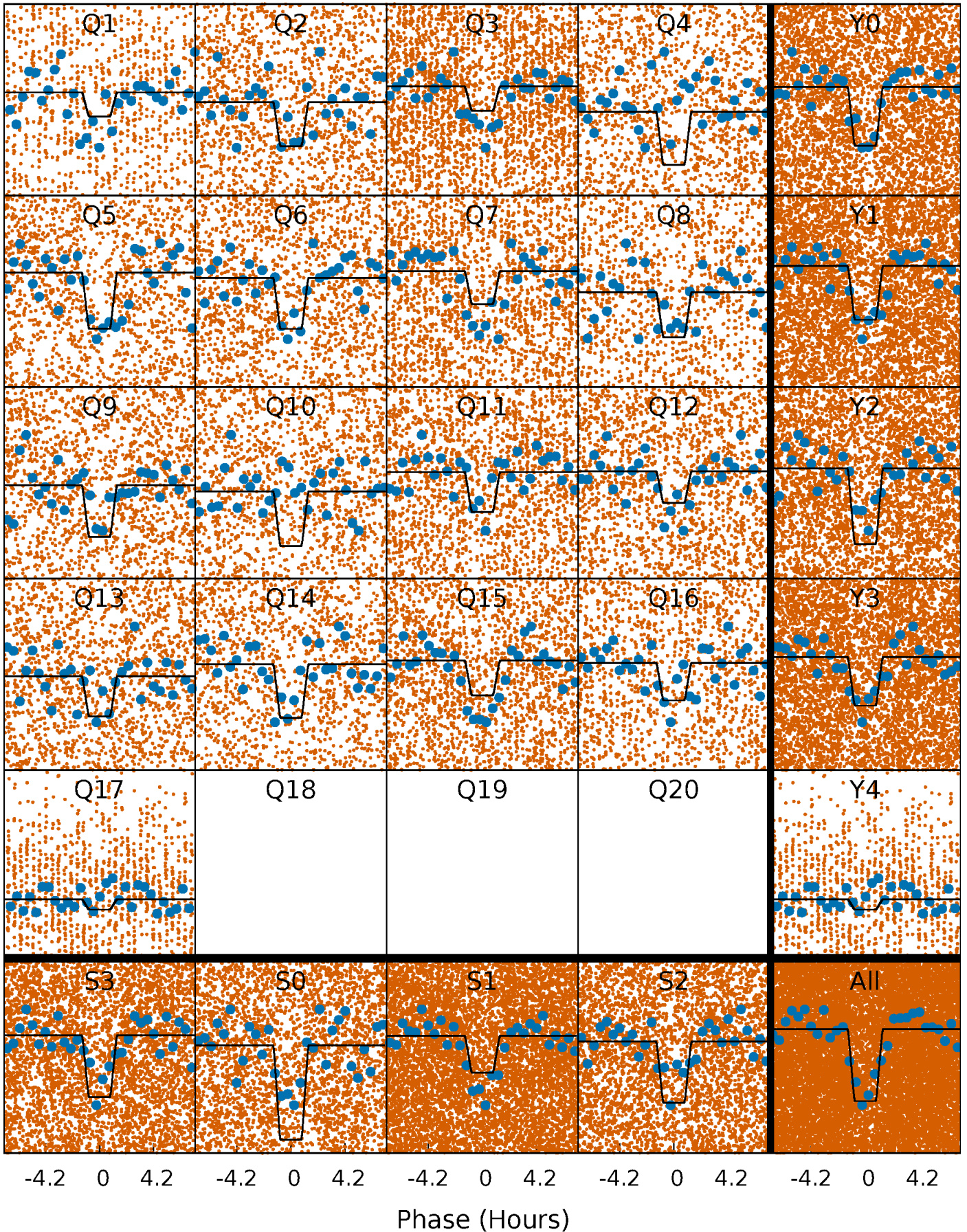
DV Quarter-Phased Transit Curves

TCE 011763903-01 P= 0.612914 Days $T_0=131.947198$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

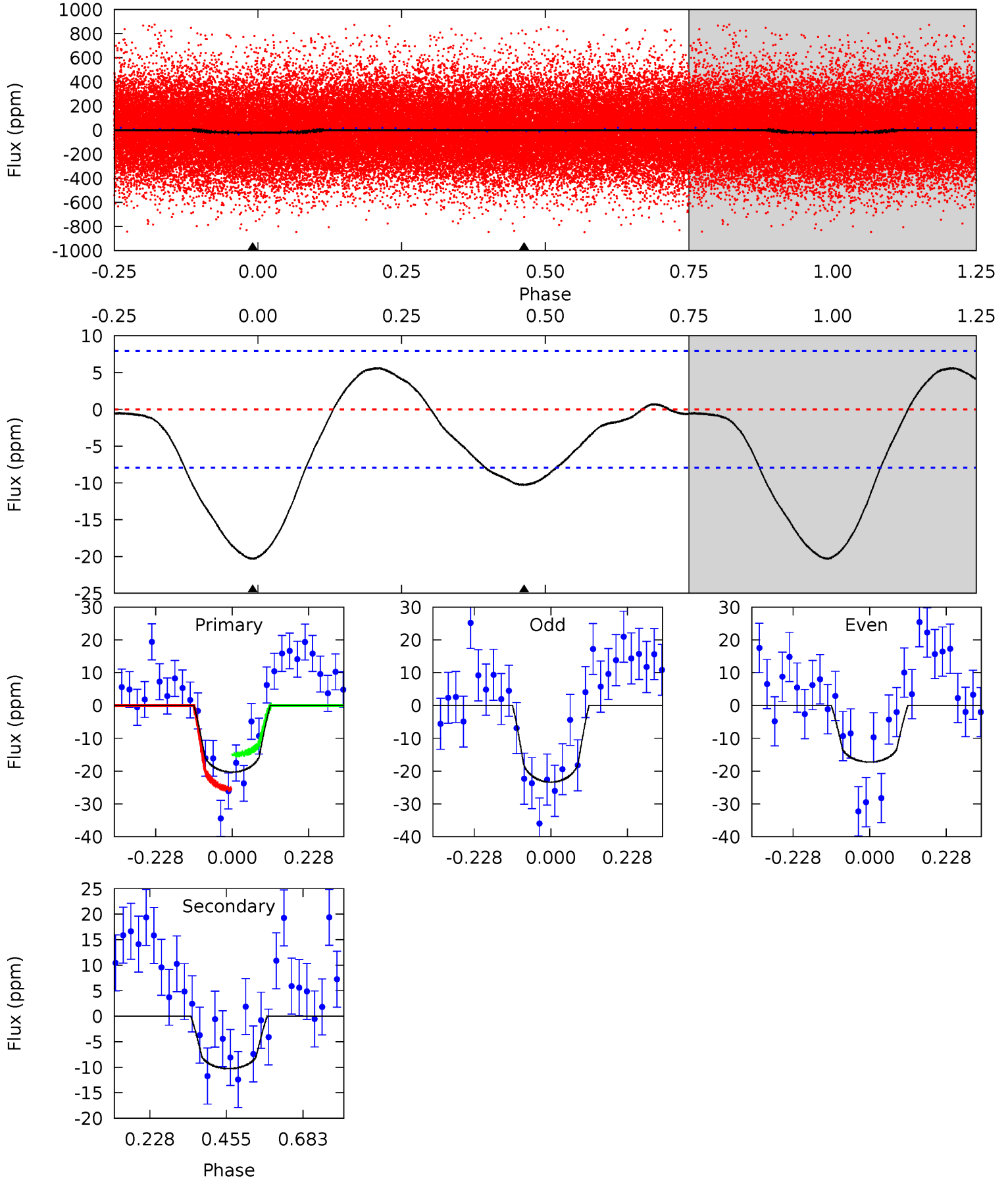
TCE 011763903-01 P= 0.612901 Days $T_0=131.954863$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-01, P = 0.612914 Days, E = 131.334284 Days

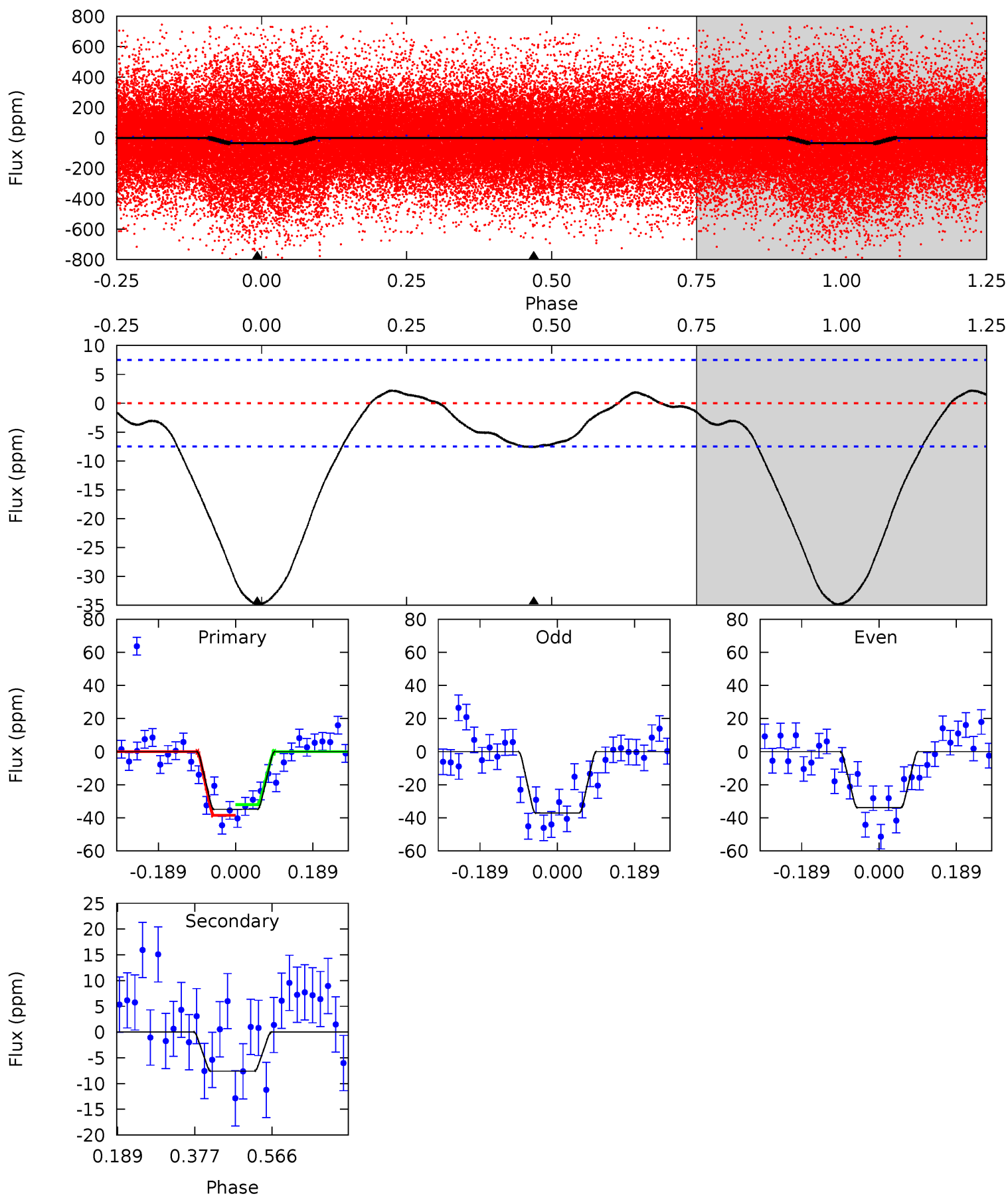
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
11.2	5.69	0	0	4.39	1.21	1.25	11.2	11.2	5.69	5.69	1.71	1.04	0.22	2.88



Alt Model-Shift Uniqueness Test

011763903-01, P = 0.612901 Days, E = 131.341962 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.6	4.49	0	0	4.43	1.31	1.08	20.6	20.6	4.49	4.49	1.01	0.95	0.06	1.92



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-10 ± 2	$0.62^{+0.22}_{-0.22}$	3414^{+247}_{-169}	5040^{+1099}_{-667}	$3.147^{+4.009}_{-1.489}$
Alt.	-8 ± 2	$0.76^{+0.24}_{-0.22}$	3413^{+234}_{-167}	4218^{+757}_{-549}	$1.508^{+1.575}_{-0.697}$

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 $A_{obs} \gg 1.0$

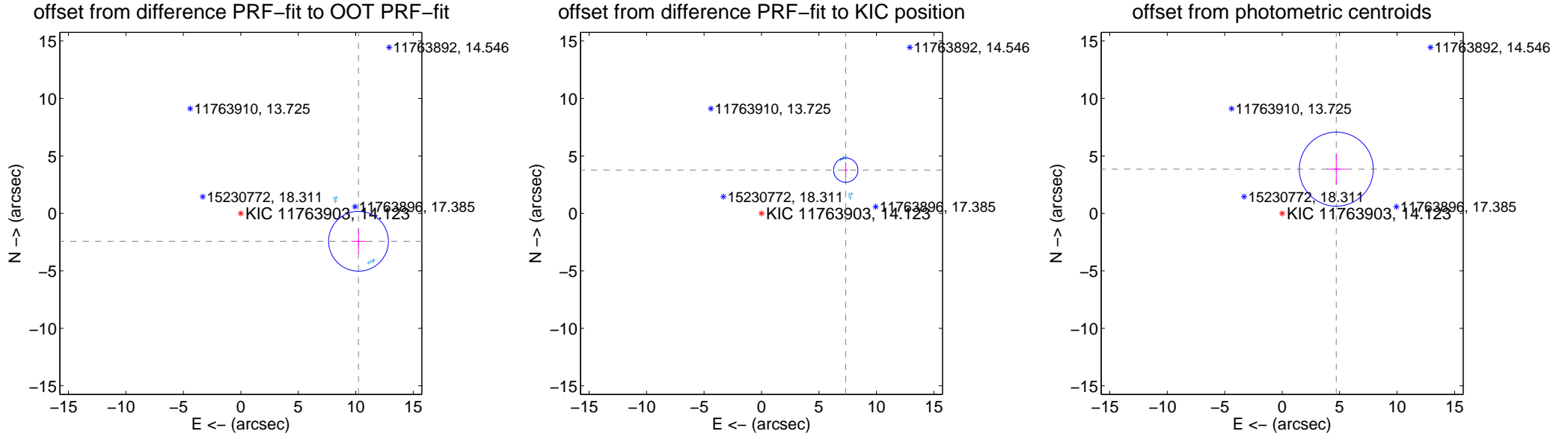
DV Centroid Data

Supplemental centroid analysis for 011763903-01. Kepler magnitude: 14.12. Transit SNR 8.17

There are 7 quarters with good PRF difference image offsets

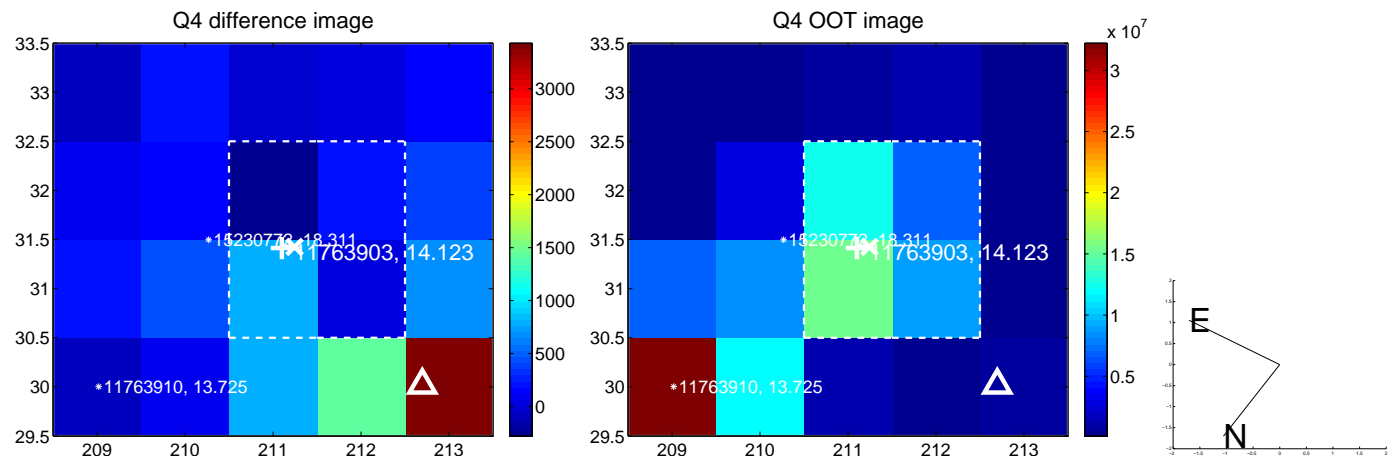
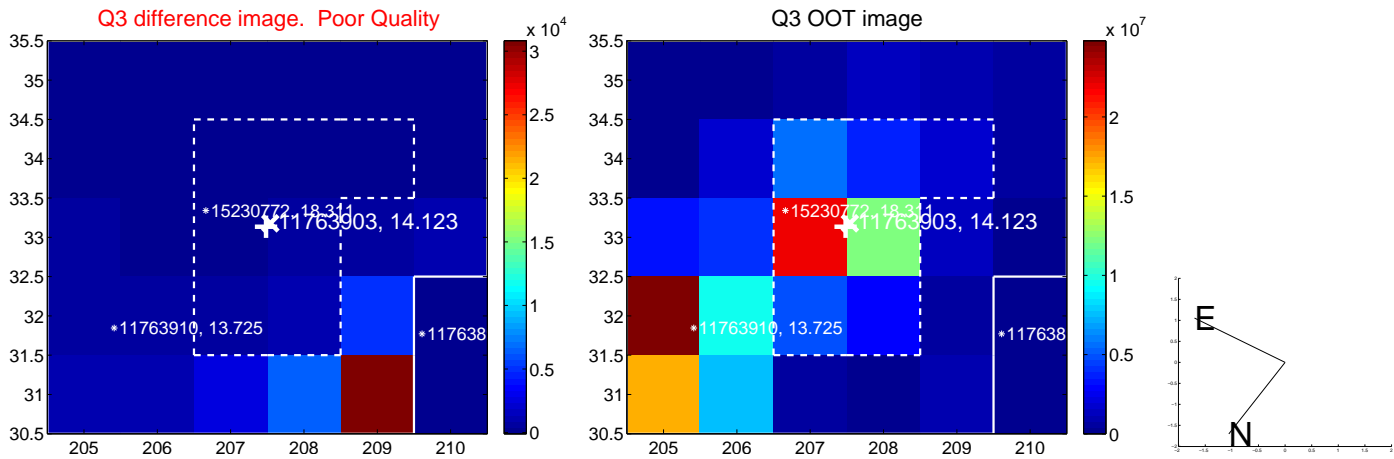
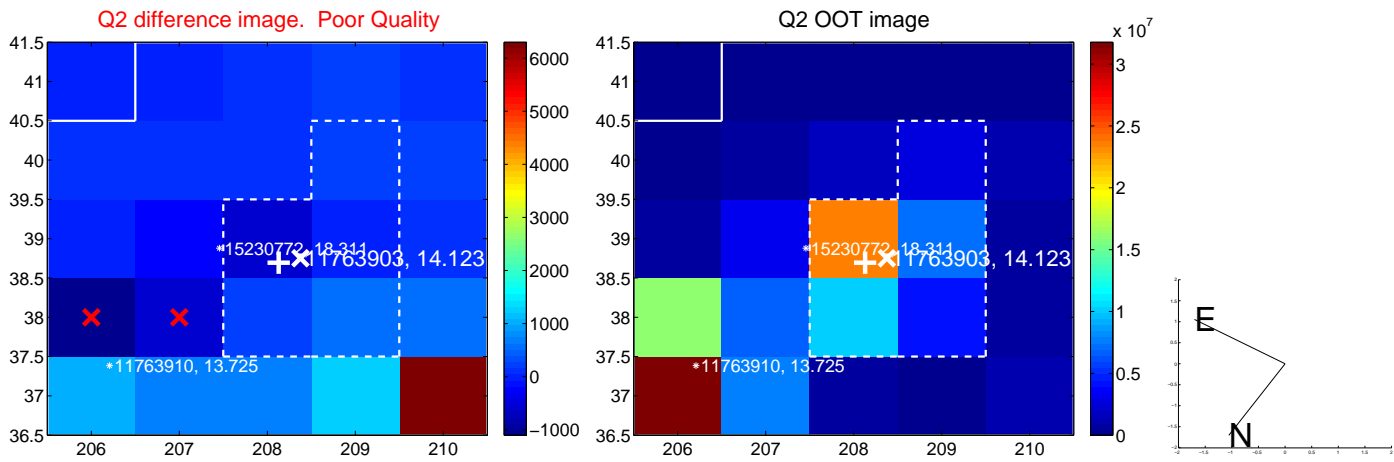
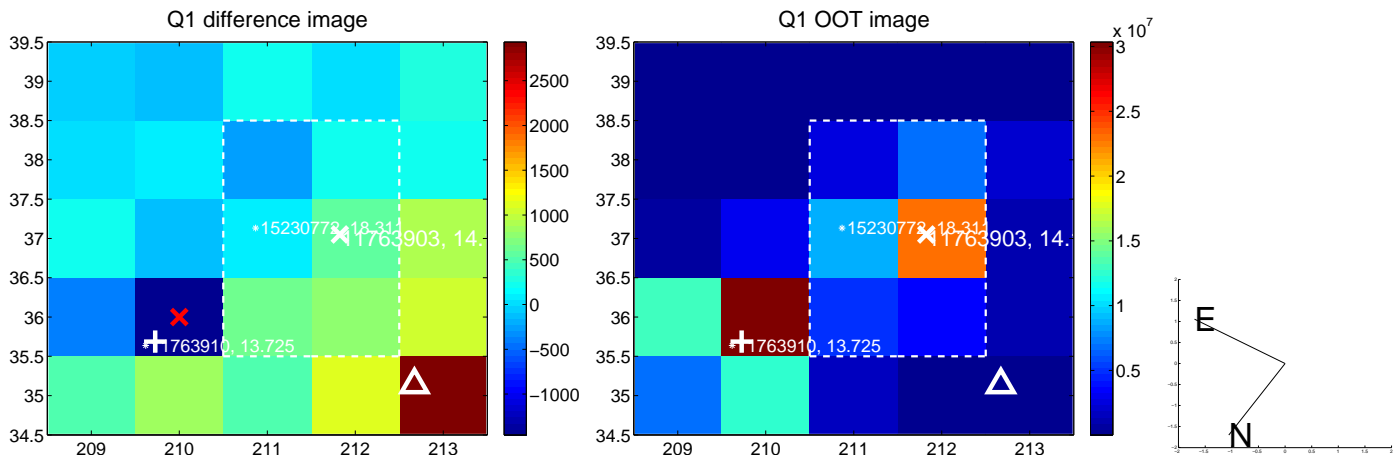
The OOT PRF centroid is offset from the target star catalog position by about 9.91 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	10.520 ± 0.867	12.13	-10.237 ± 0.638	-2.424 ± 1.082
PRF-fit source offset from KIC position	8.239 ± 0.353	23.33	-7.330 ± 0.169	3.763 ± 0.700
photometric centroid source offset	6.08 ± 1.07	5.67	-4.71 ± 0.83	3.85 ± 1.36

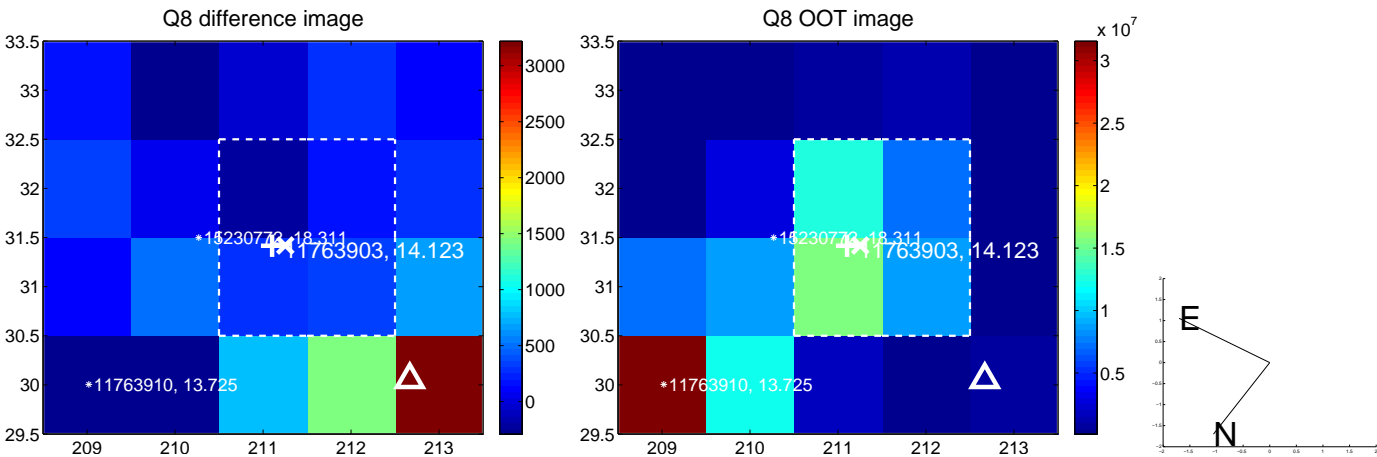
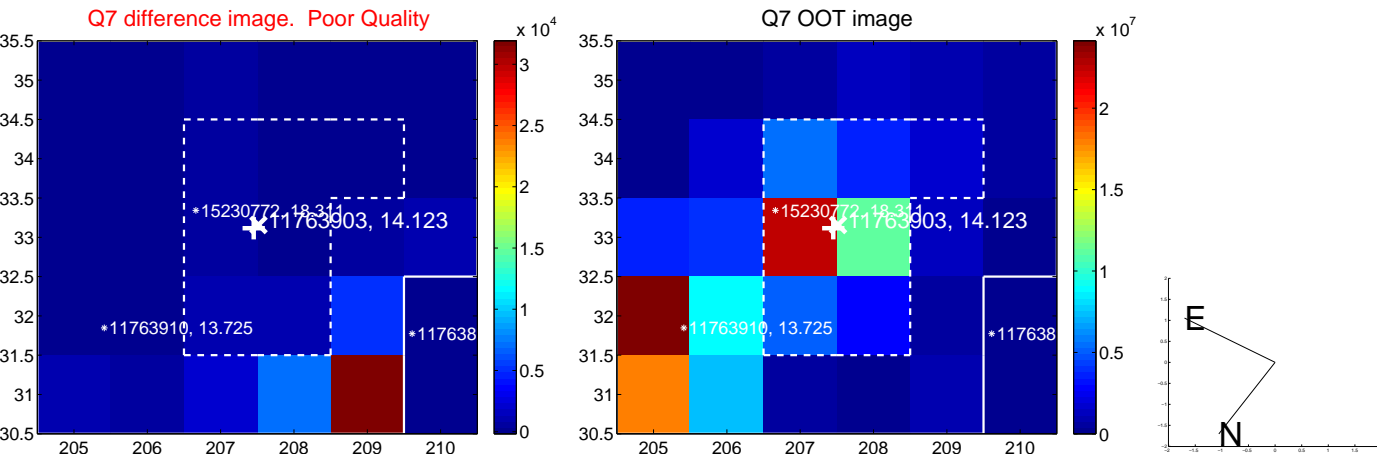
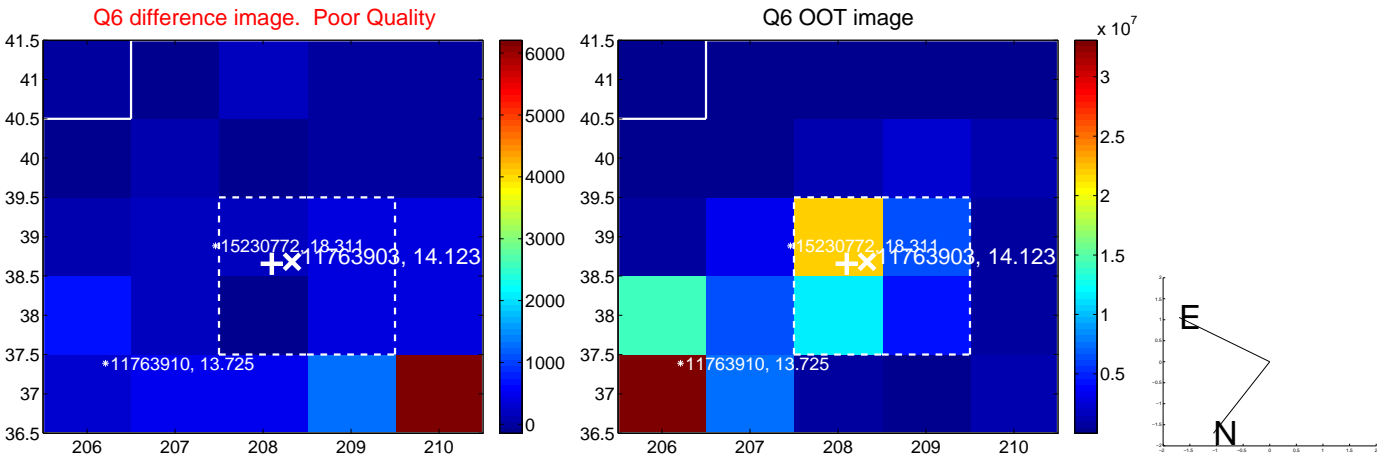
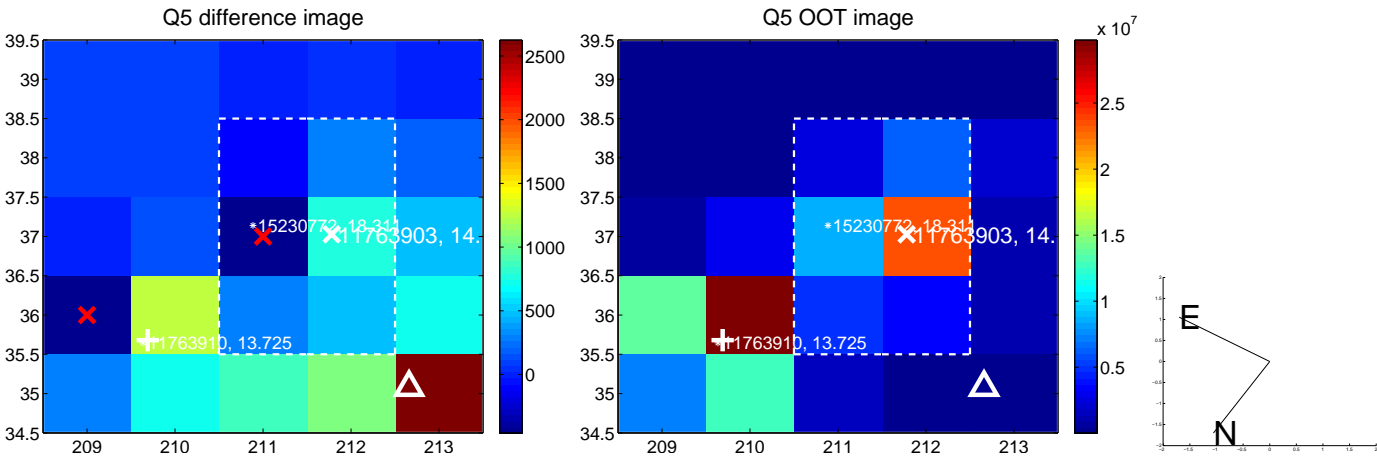


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

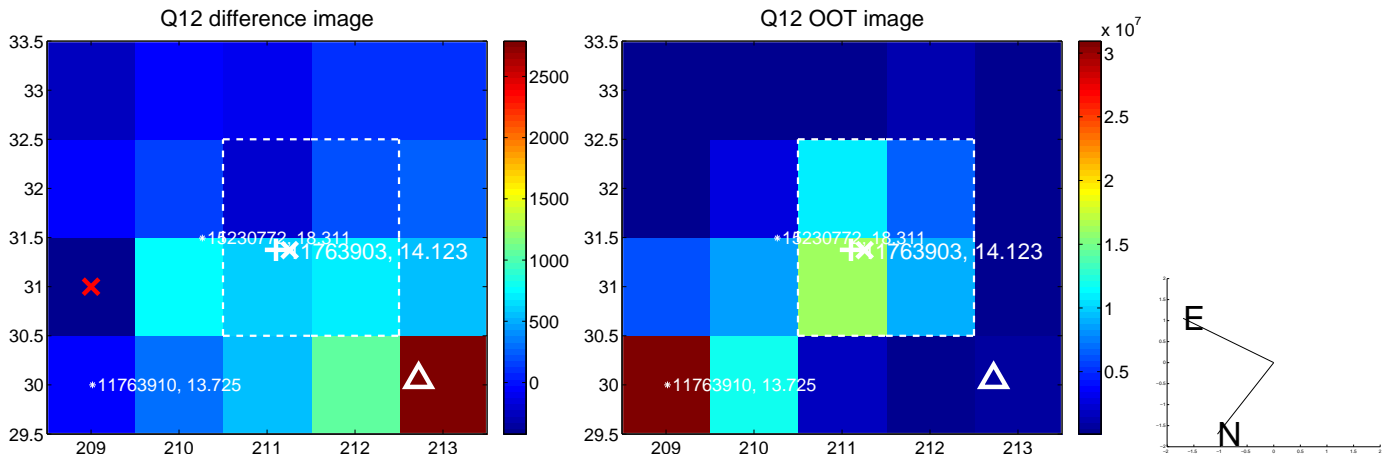
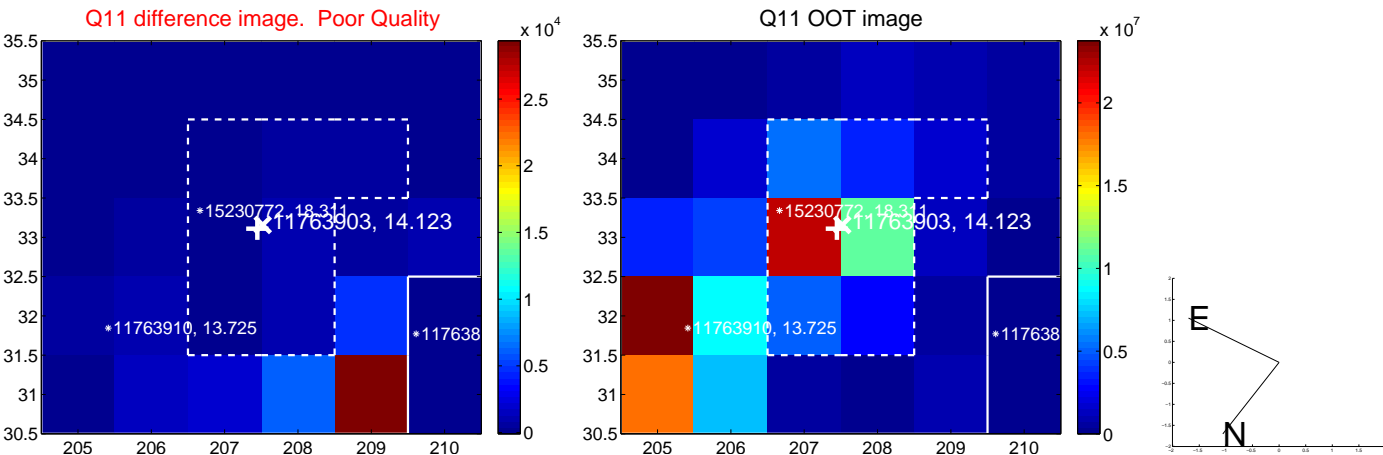
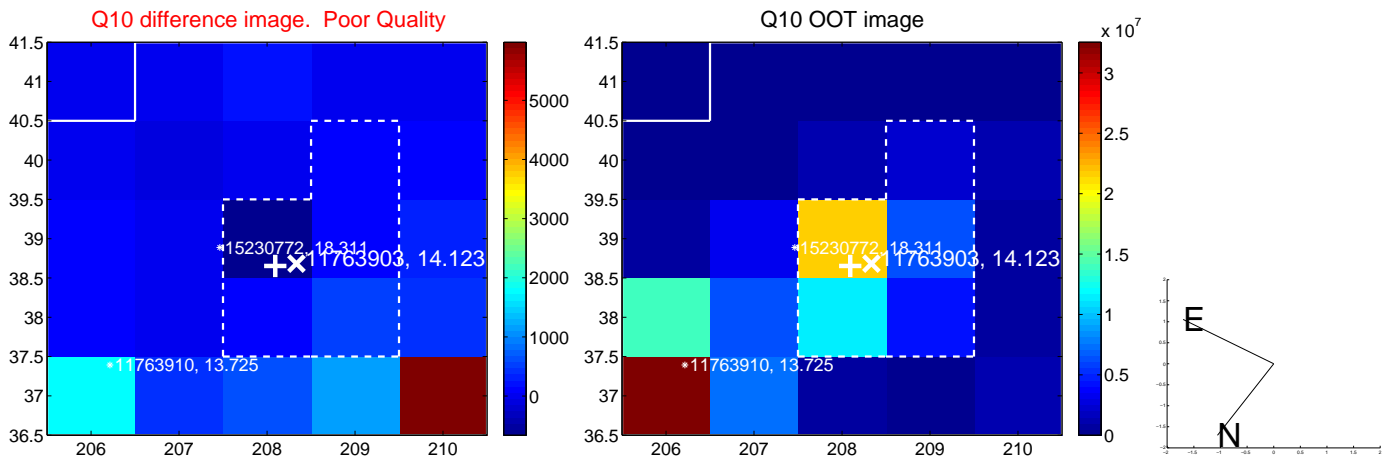
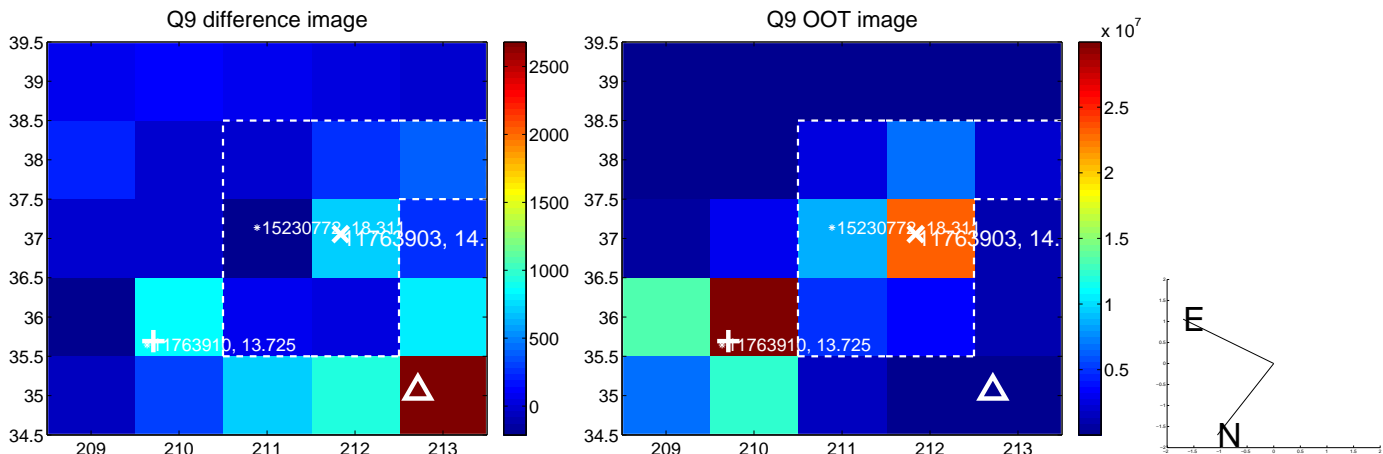
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



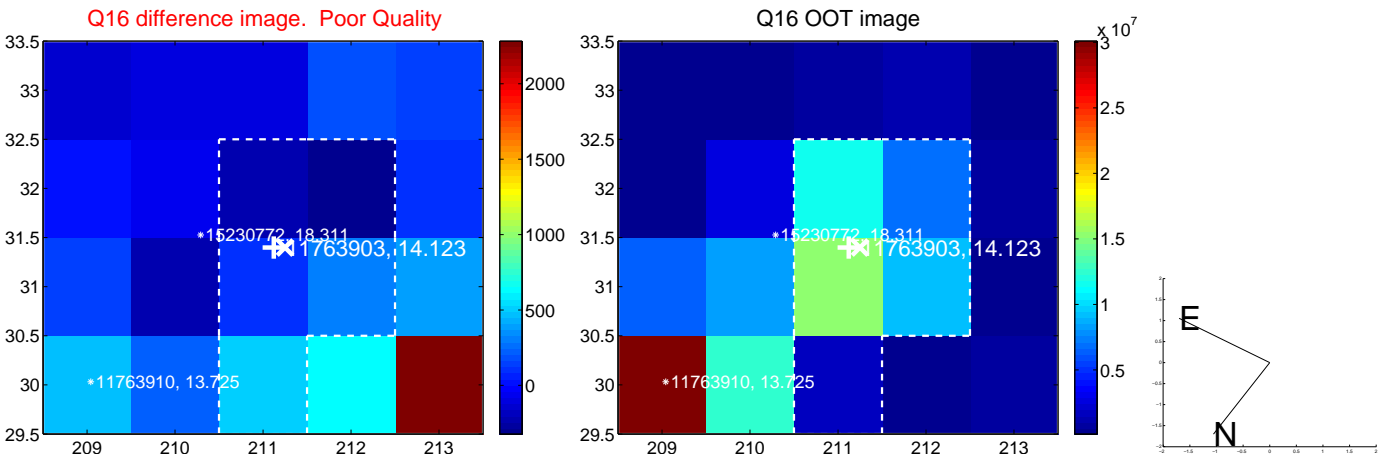
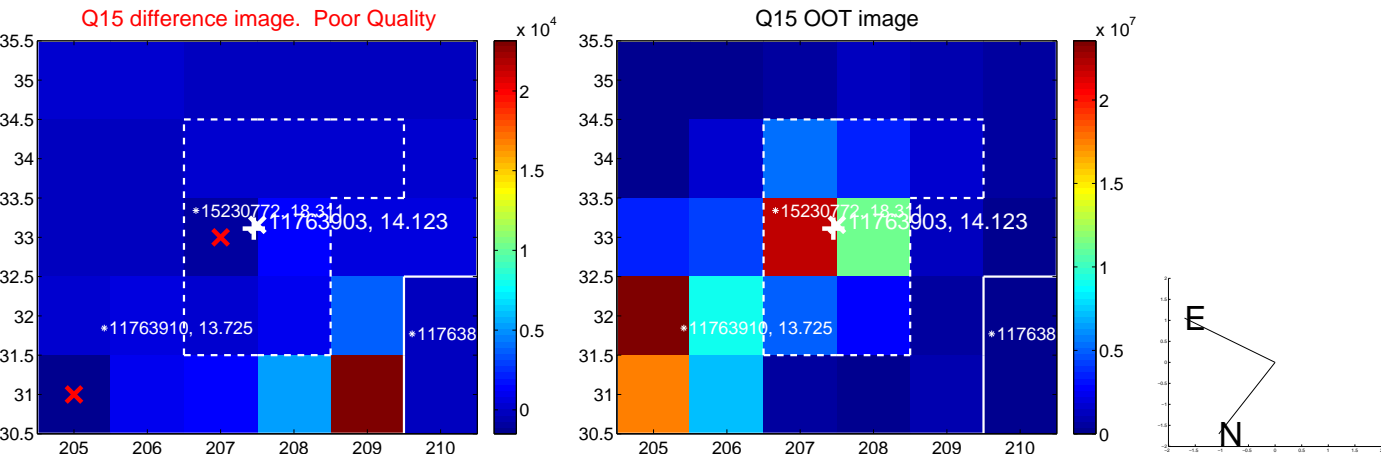
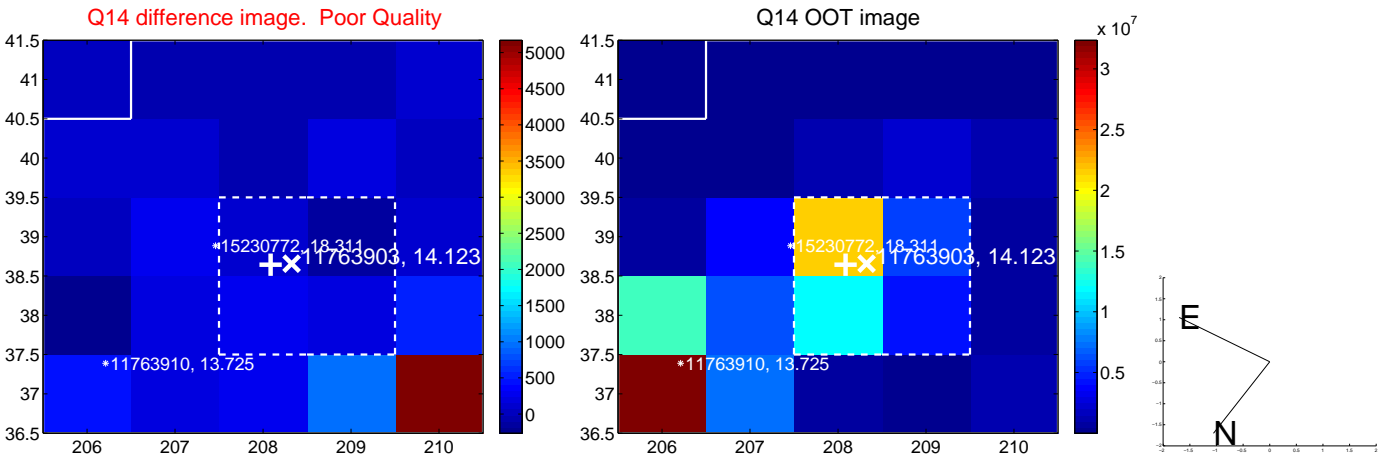
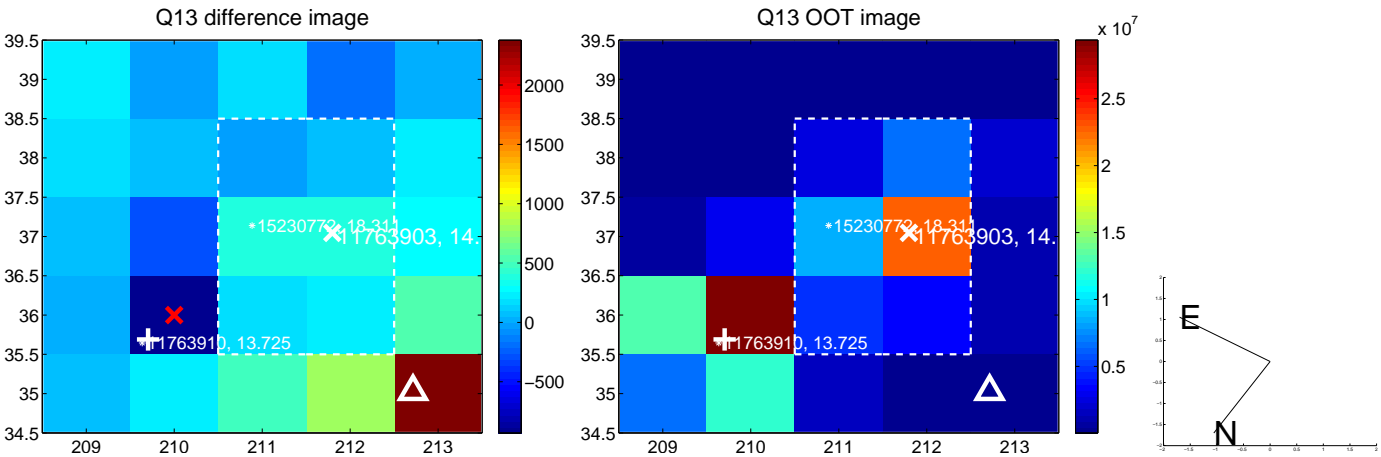
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



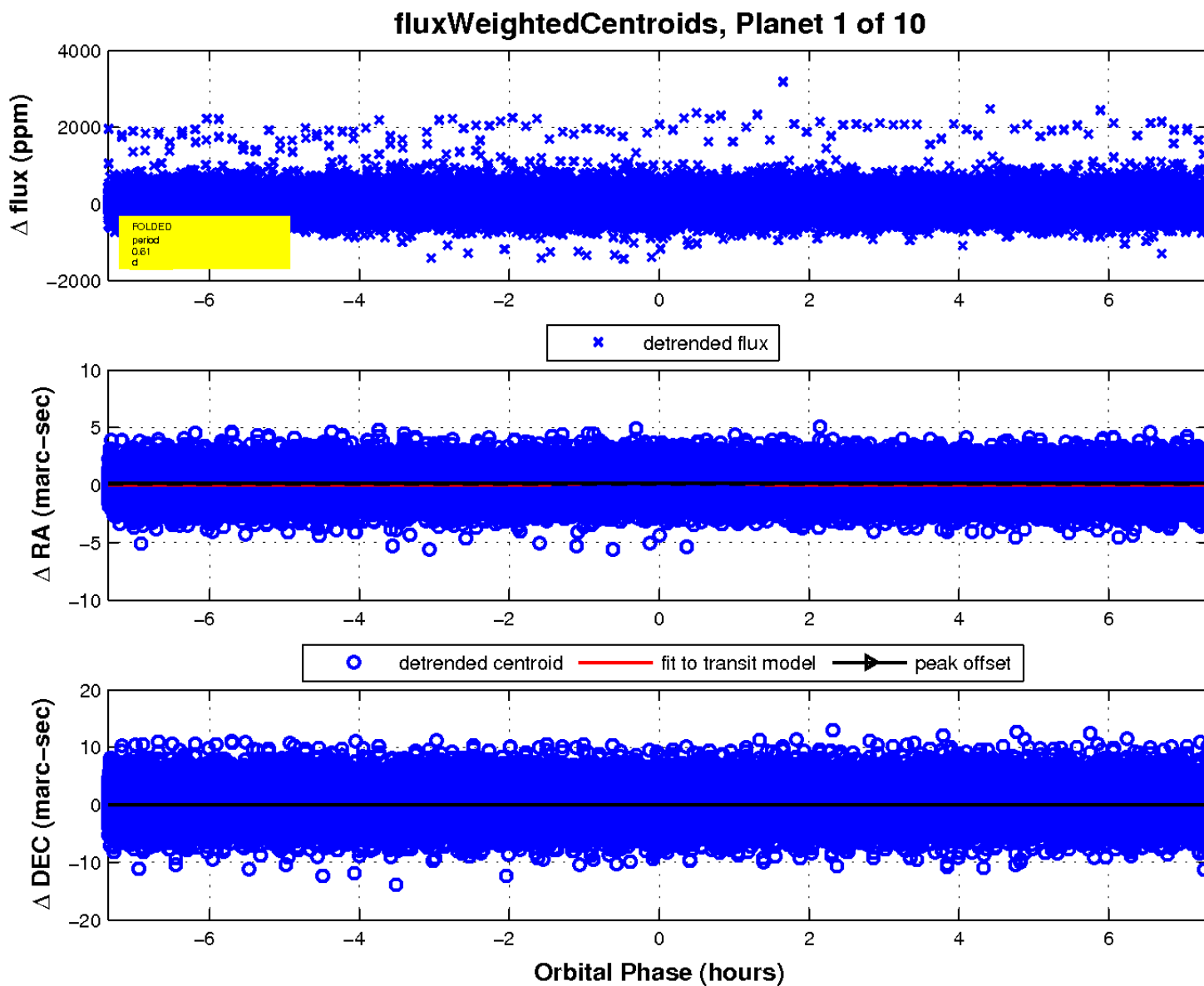
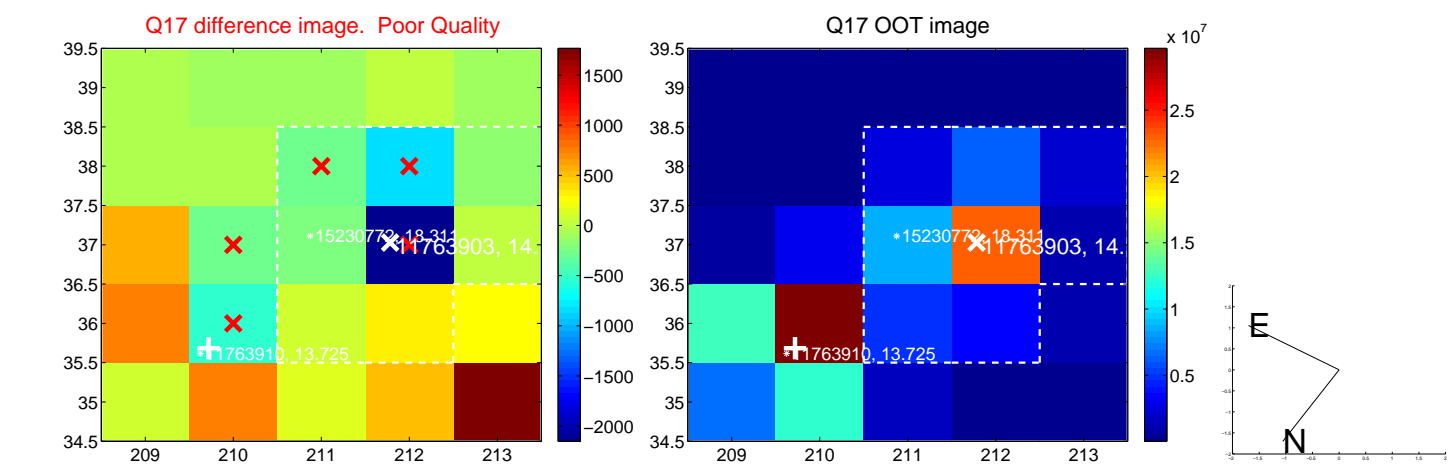
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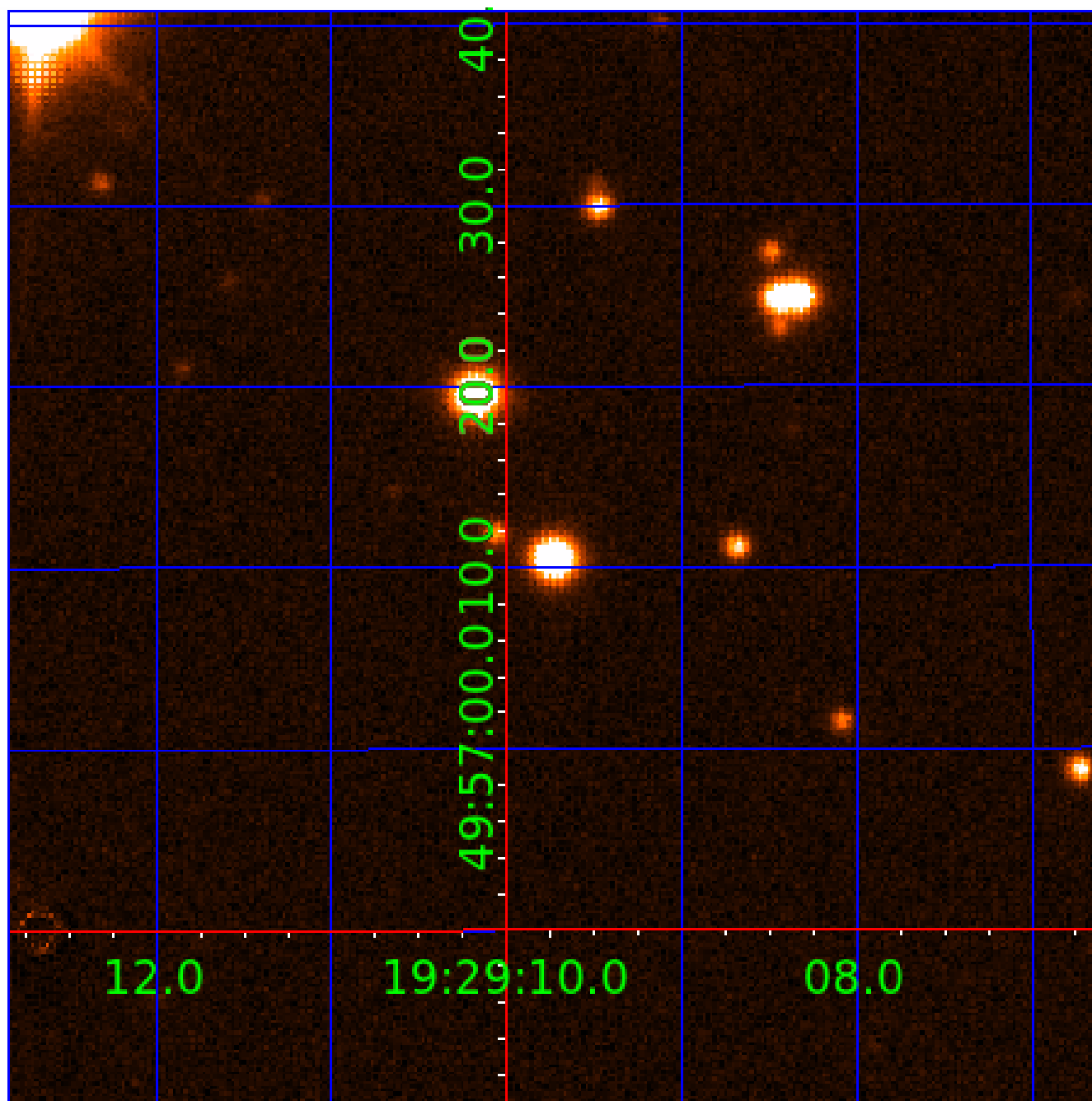


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

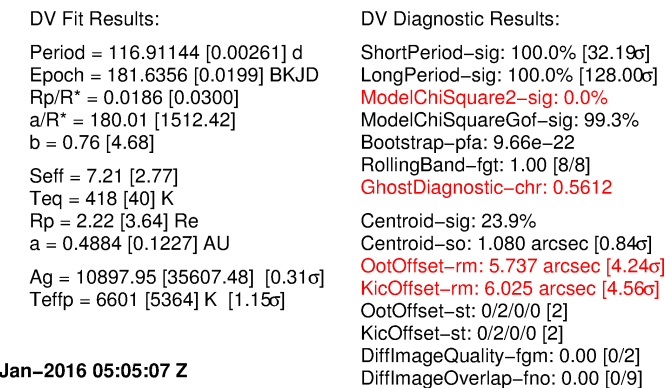
N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

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

Ephemeris Match Information For 011763903-02

No Significant Match Found

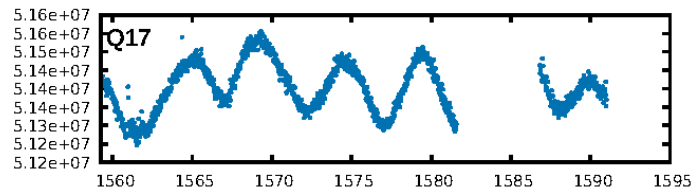
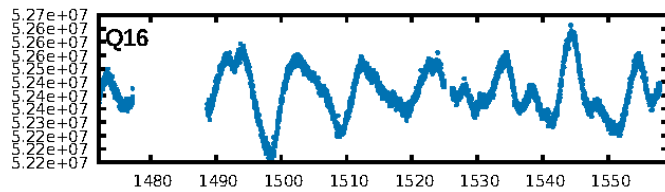
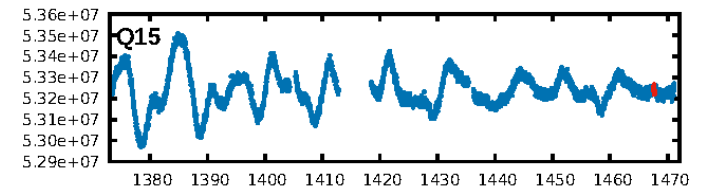
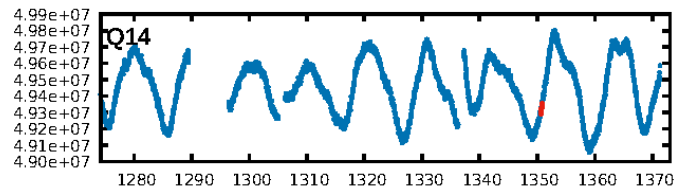
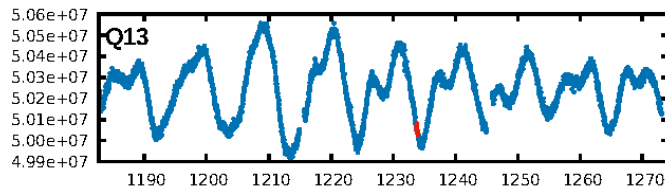
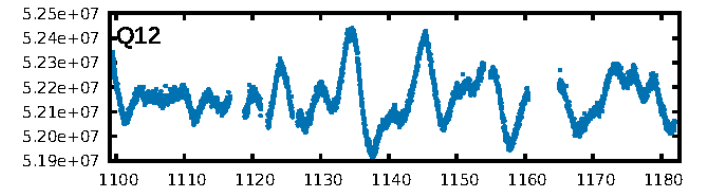
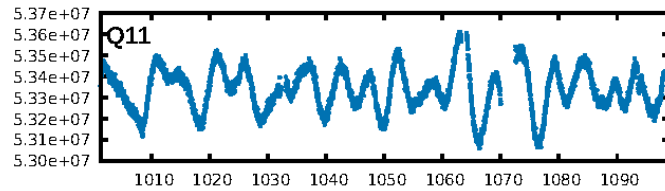
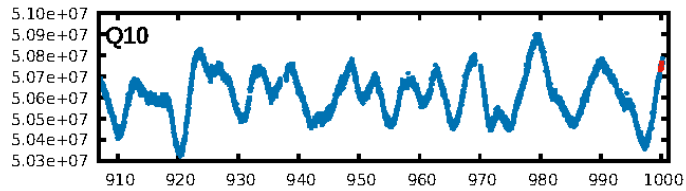
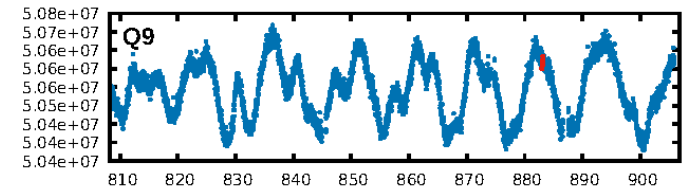
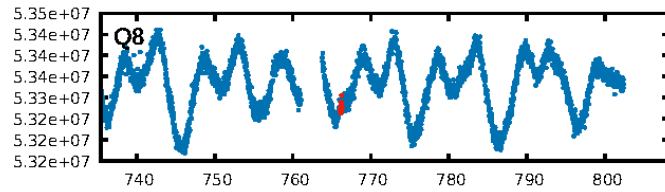
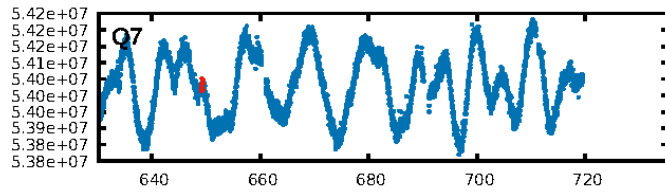
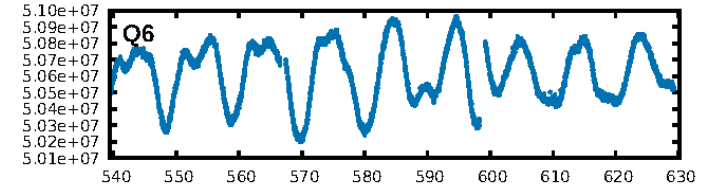
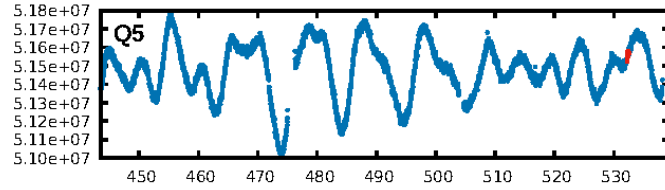
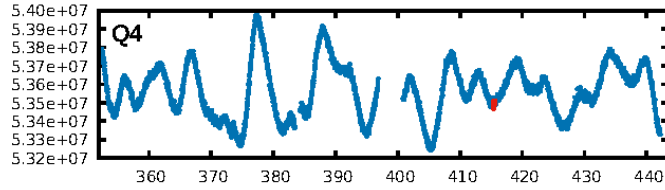
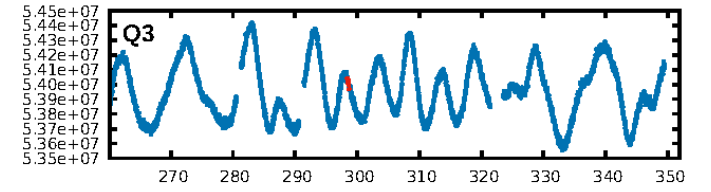
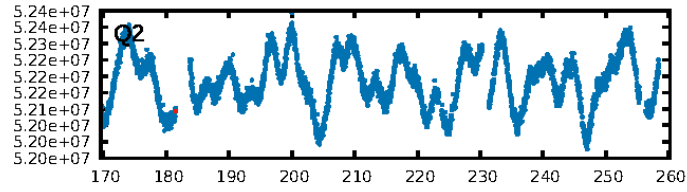
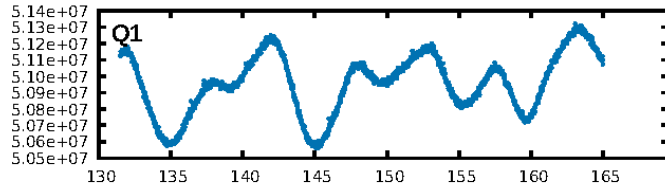
KIC: 11763903 Candidate: 2 of 10 Period: 116.911 d



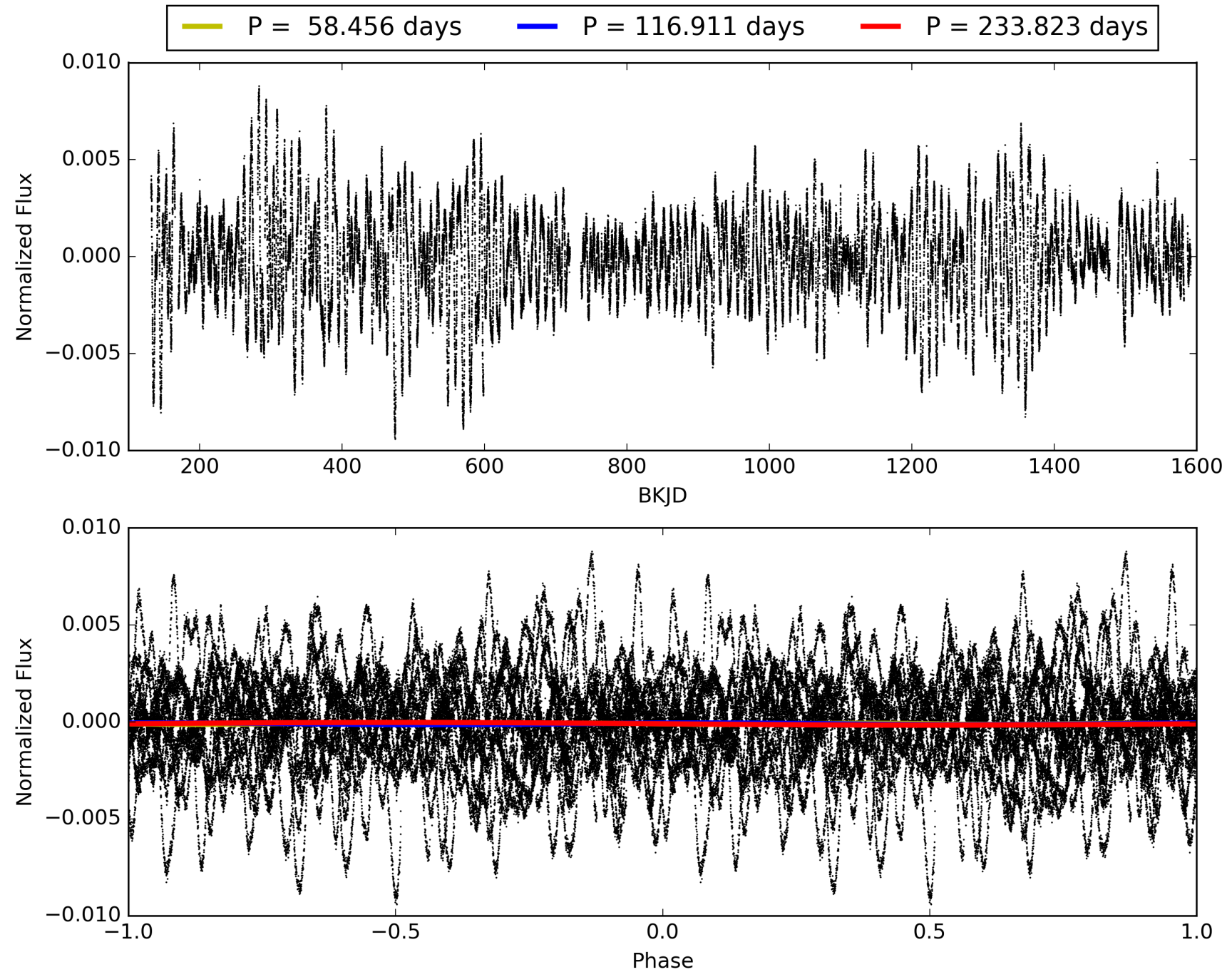
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 011763903-02, PDC Light Curves

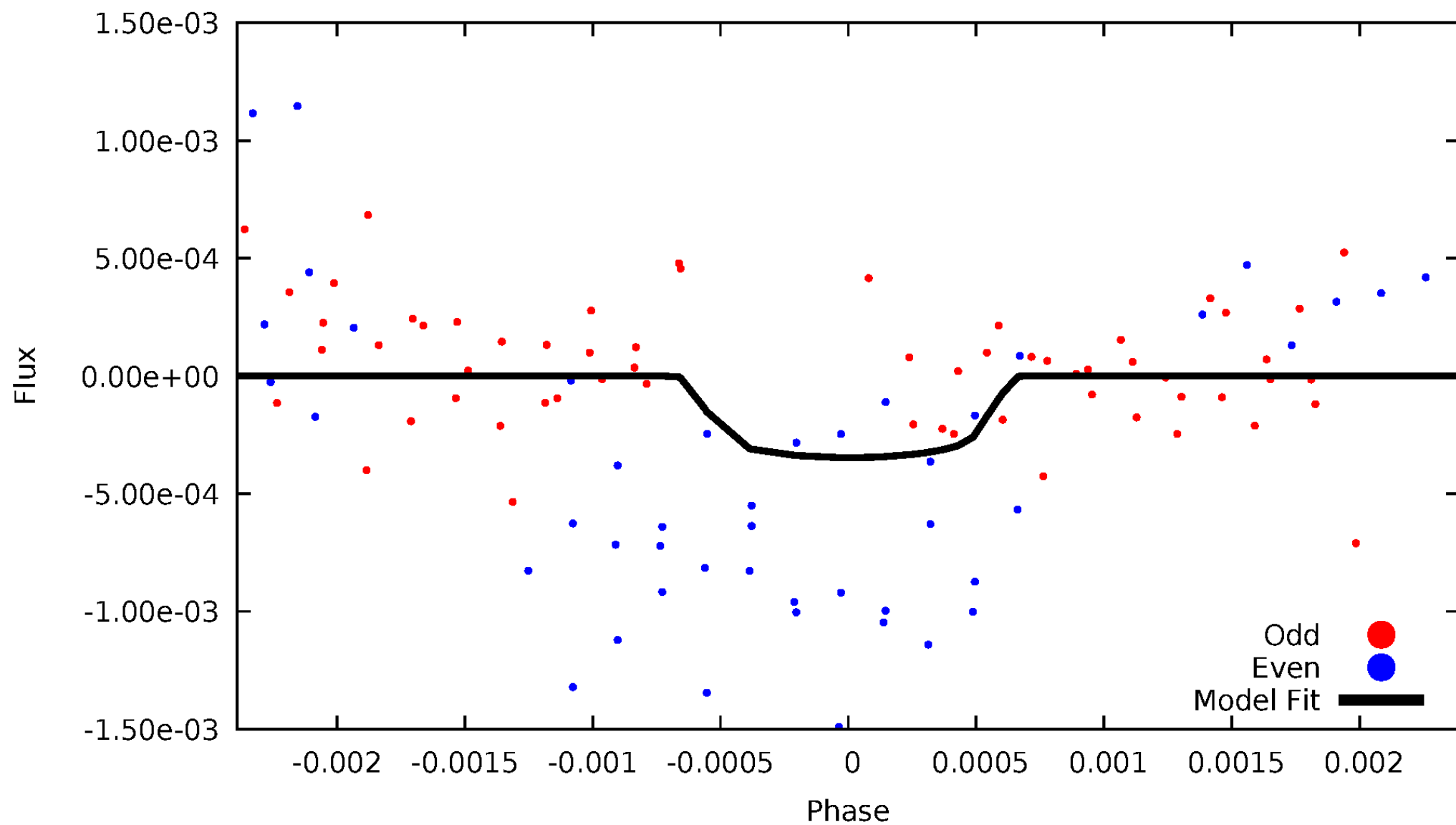


TCE 011763903-02



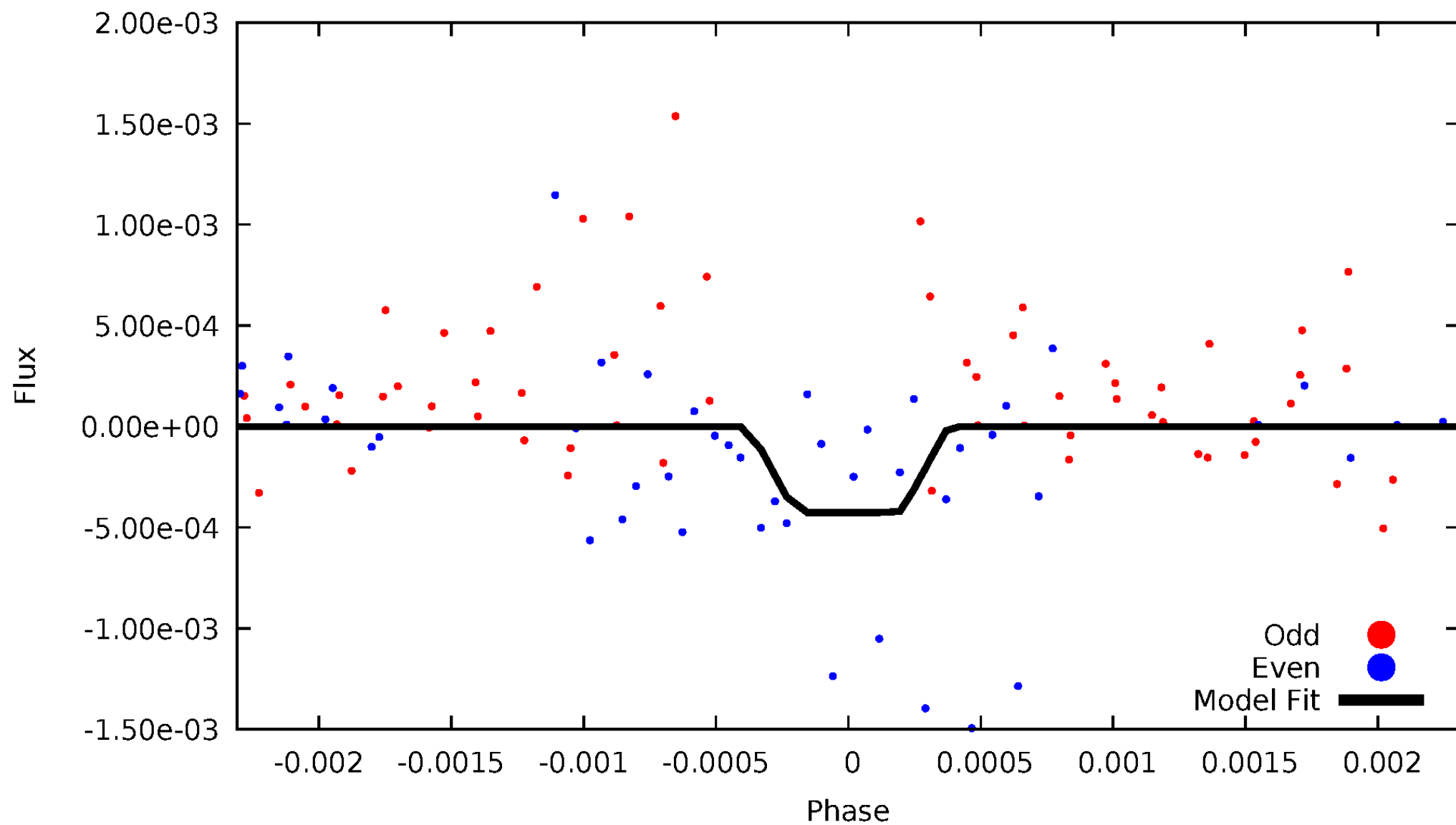
DV Odd/Even

TCE 011763903-02



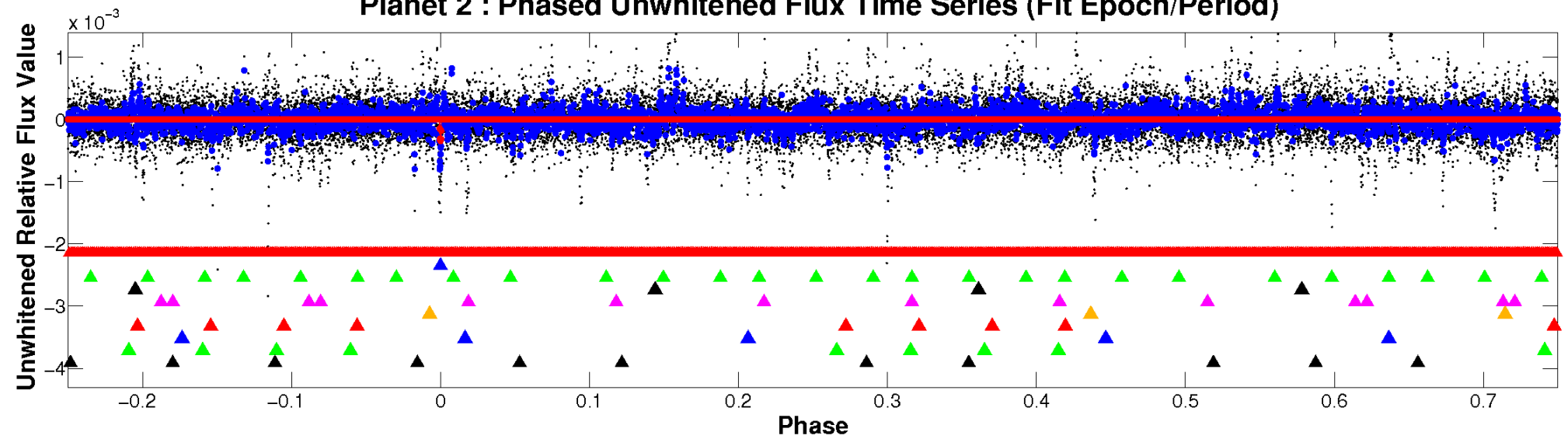
ALT Odd/Even

TCE 011763903-02

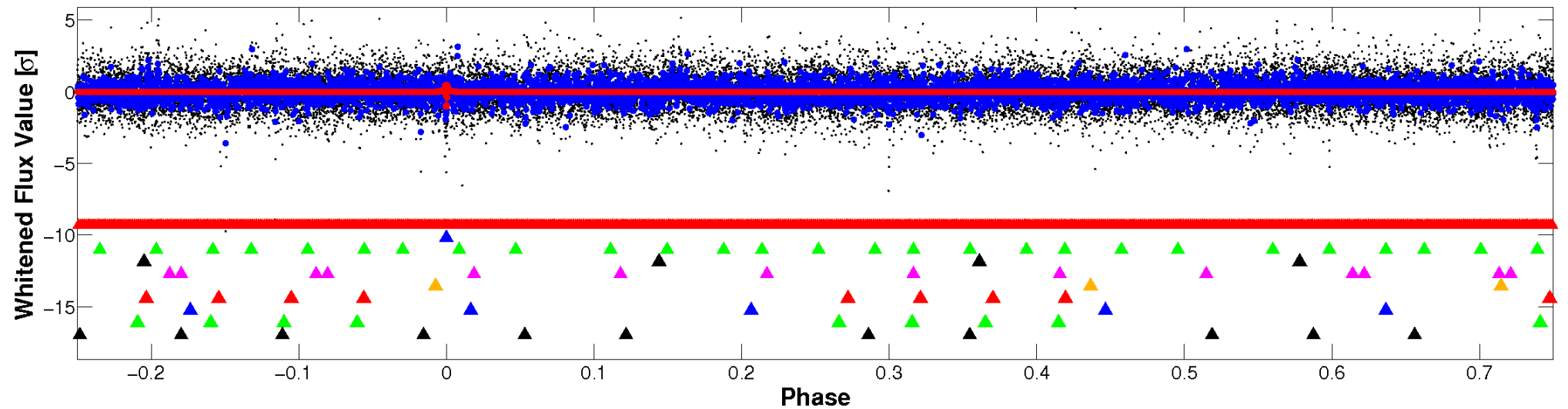


Non-Whitened Vs. Whitened Light Curve

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

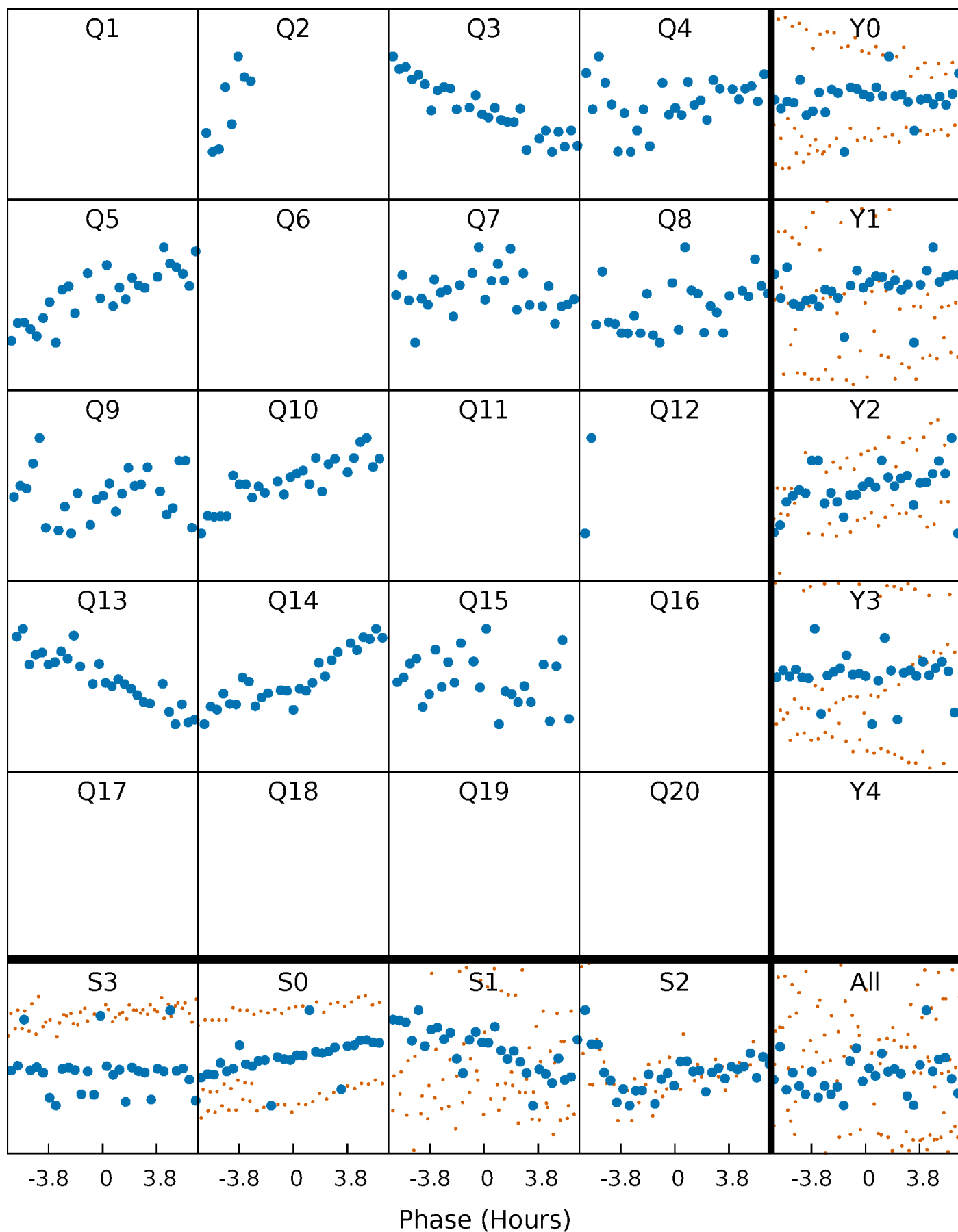


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



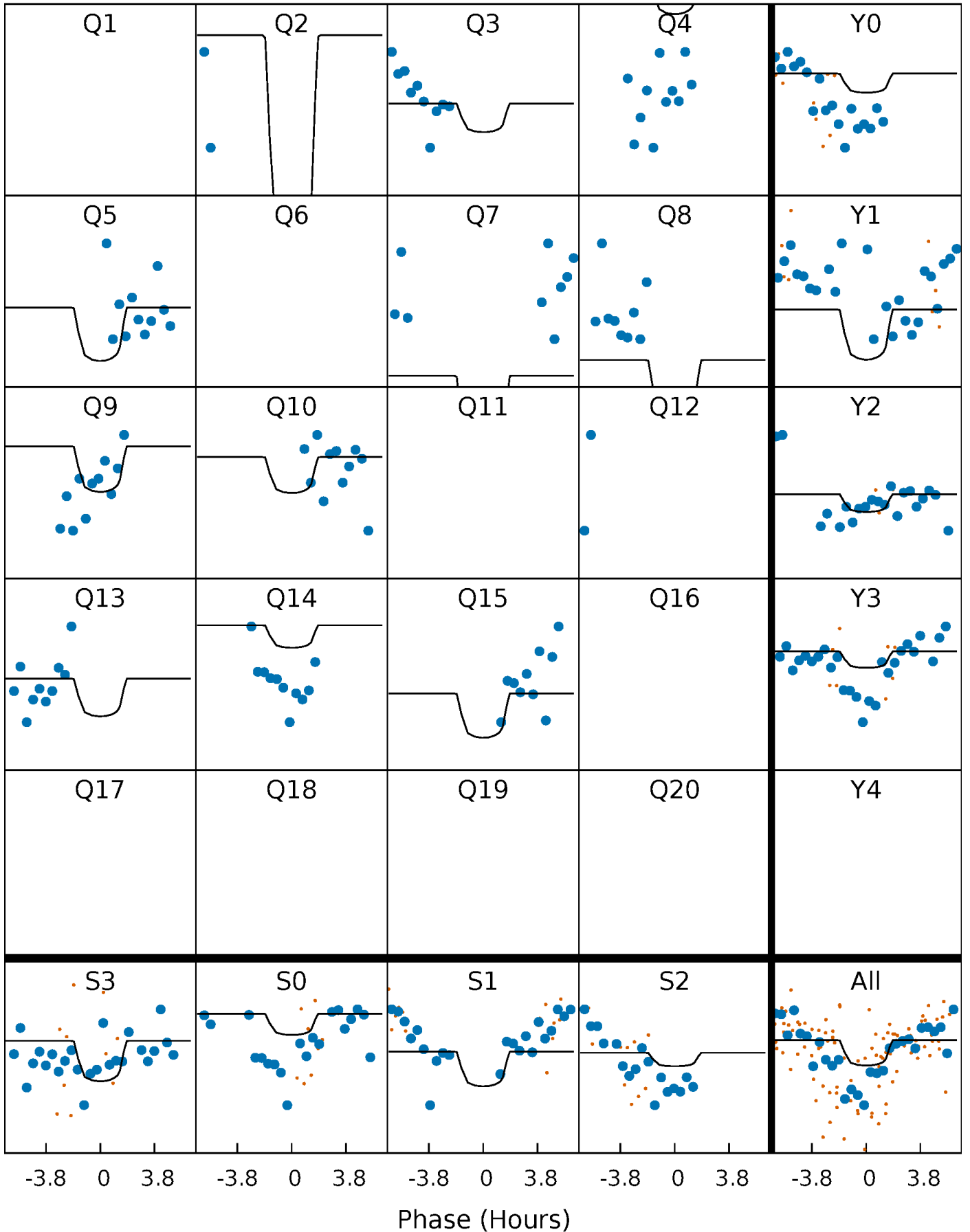
PDC Quarter-Phased Transit Curves

TCE 011763903-02 P=116.911443 Days $T_0=181.635595$ (BKJD)



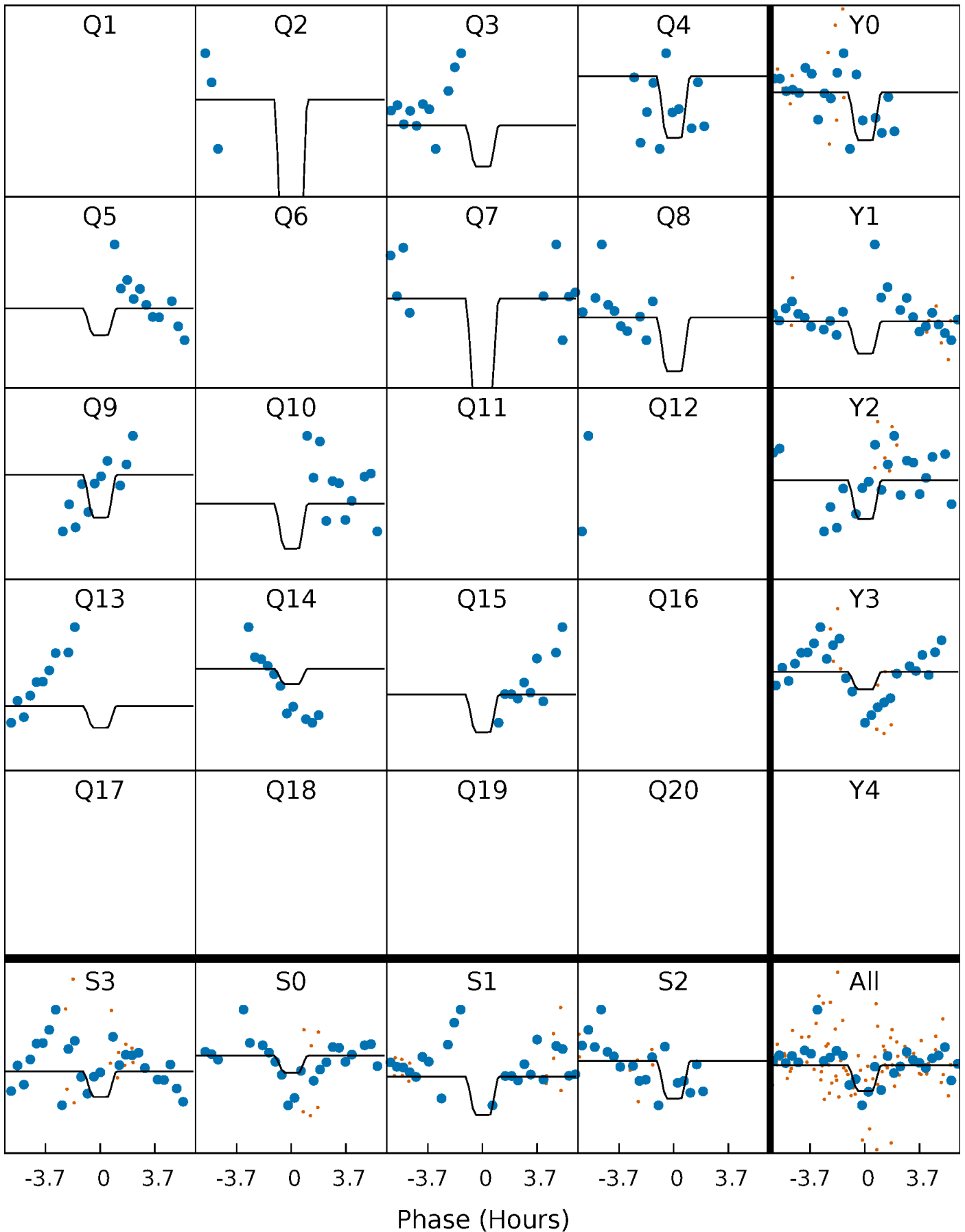
DV Quarter-Phased Transit Curves

TCE 011763903-02 P=116.911443 Days $T_0=181.635595$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

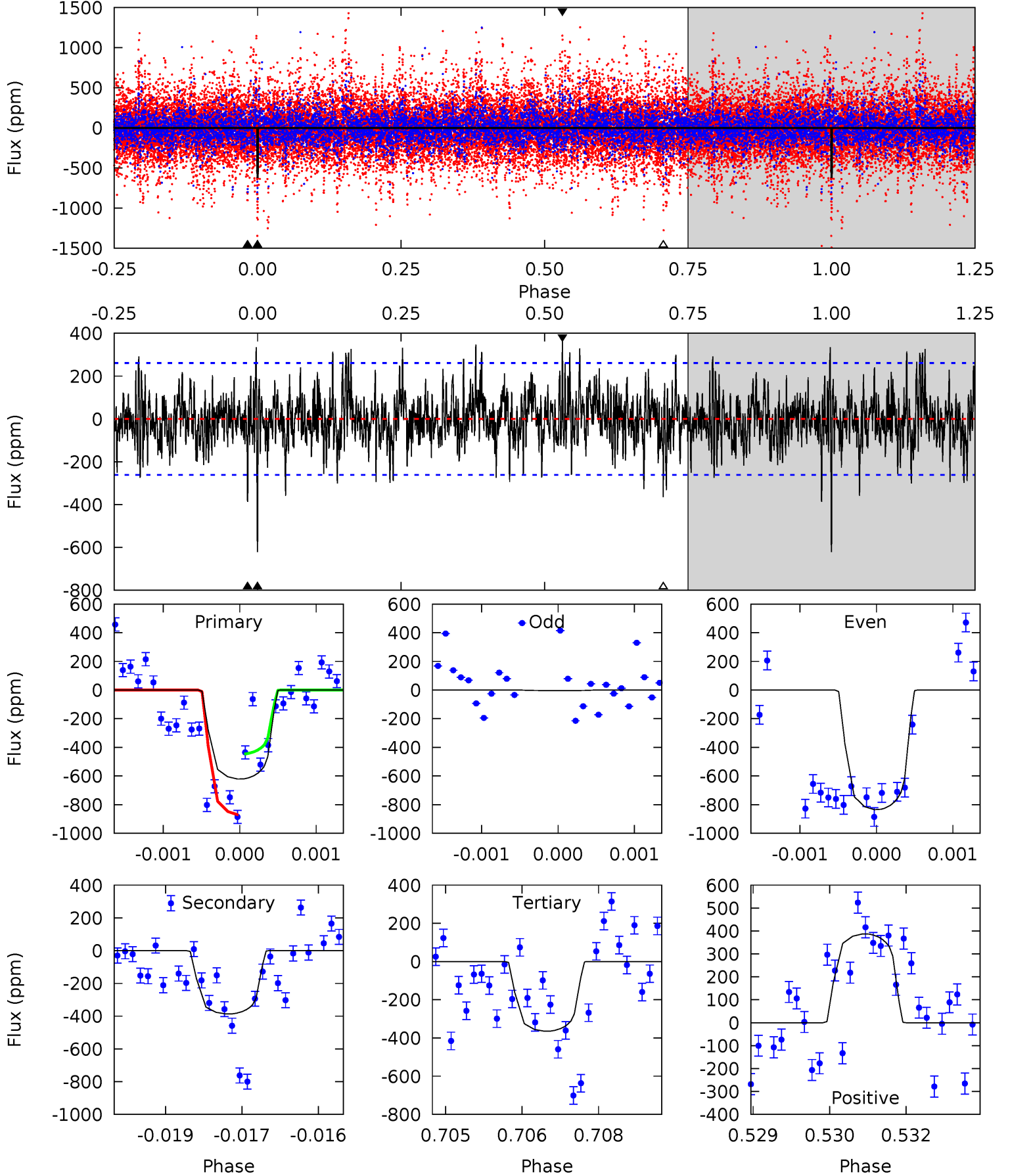
TCE 011763903-02 P=116.915026 Days $T_0=181.602250$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-02, P = 116.911443 Days, E = 64.724152 Days

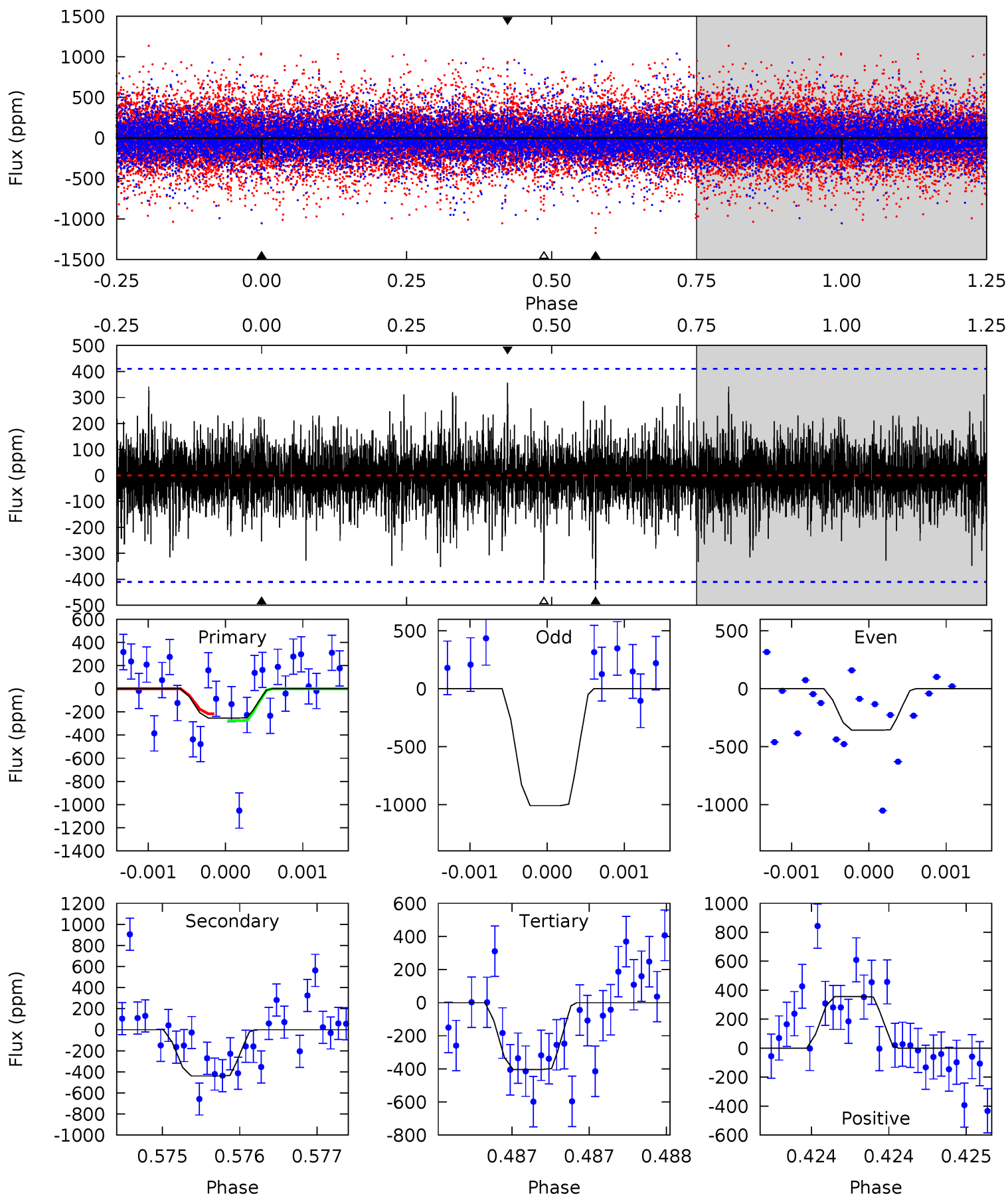
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.8	7.99	7.54	8.00	5.40	3.21	1.99	5.31	4.84	0.46	-0.01	7.92	1.88	0.38	4.33



Alt Model-Shift Uniqueness Test

011763903-02, P = 116.915026 Days, E = 64.687224 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.41	5.91	5.43	4.79	5.51	3.39	1.11	-2.02	-1.39	0.48	1.11	3.32	3.02	0.45	0



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-387 ± 48	$3.65^{+3.27}_{-2.38}$	595^{+37}_{-29}	5185^{+4168}_{-1119}	3813^{+24870}_{-2780}
Alt.	-439 ± 74	$3.61^{+3.56}_{-2.42}$	593^{+39}_{-29}	5371^{+4411}_{-1271}	4201^{+33071}_{-3130}

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 $A_{obs} \gg 1.0$

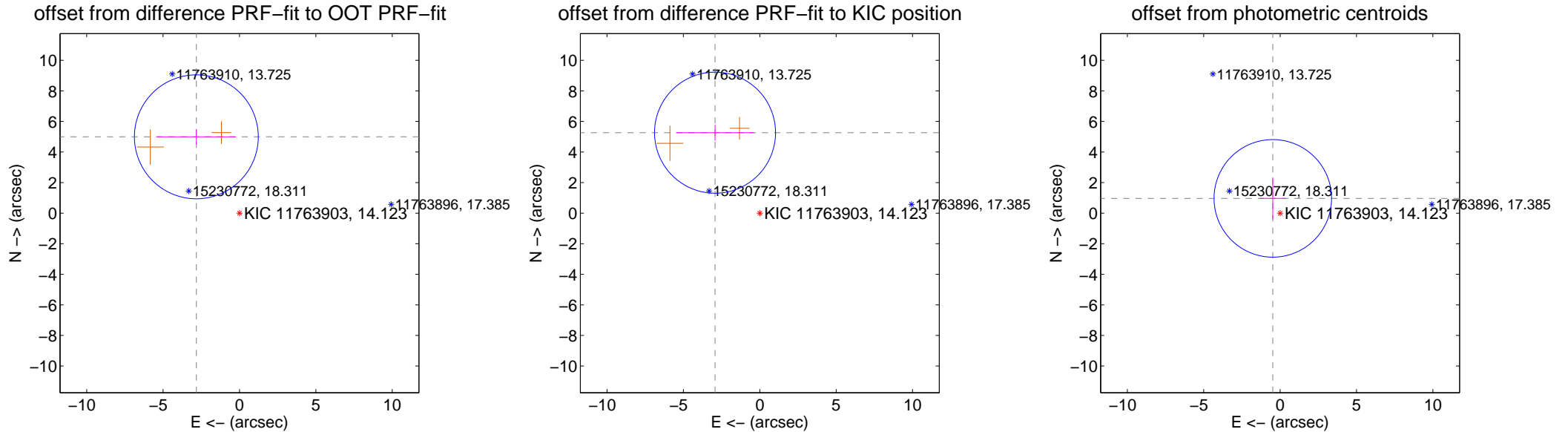
DV Centroid Data

Supplemental centroid analysis for 011763903-02. Kepler magnitude: 14.12. Transit SNR 5.00

There are 0 quarters with good PRF difference image offsets

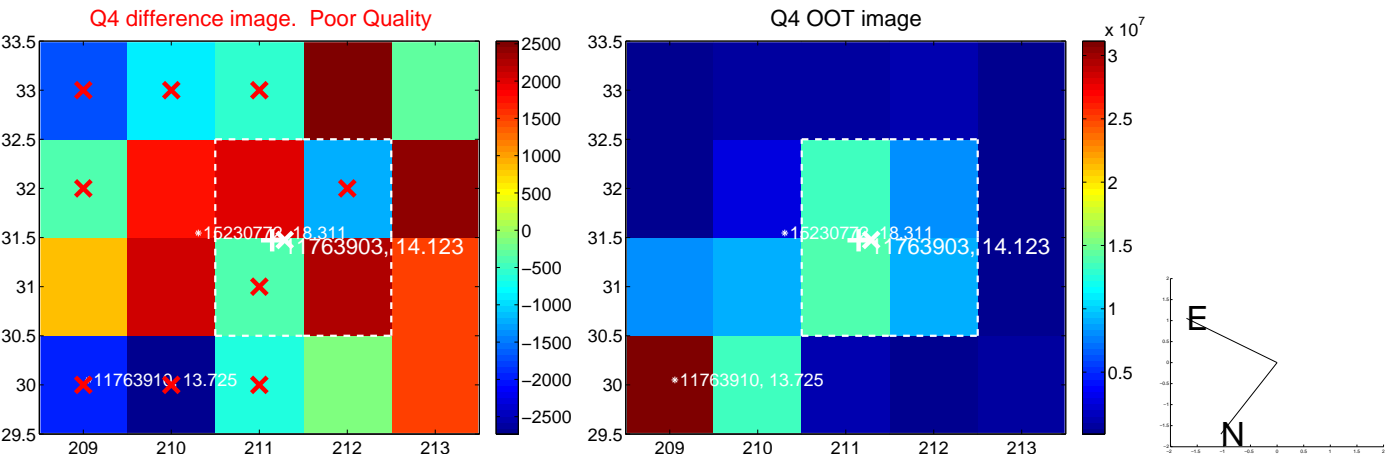
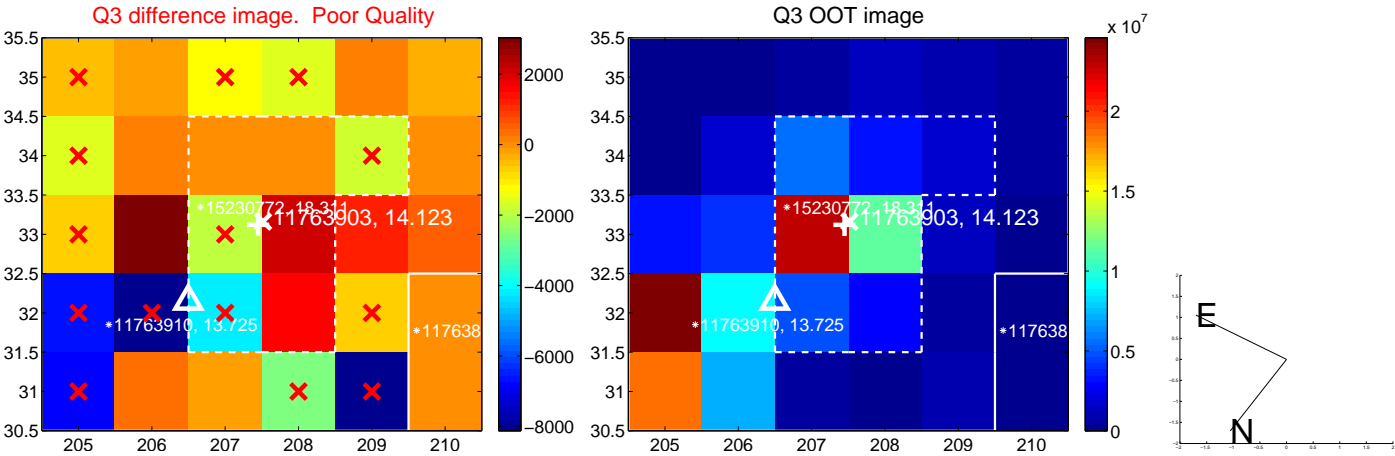
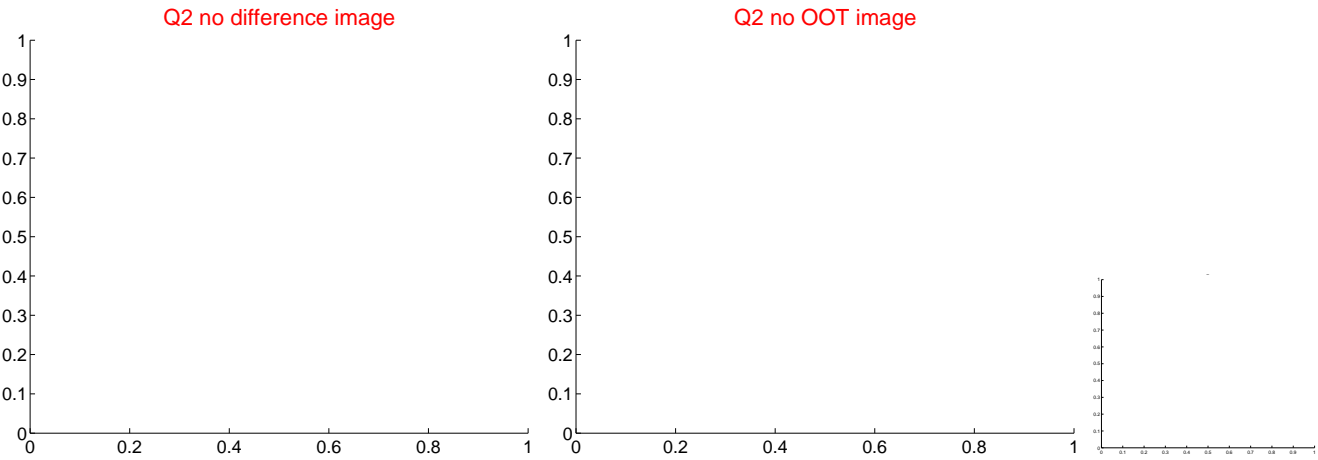
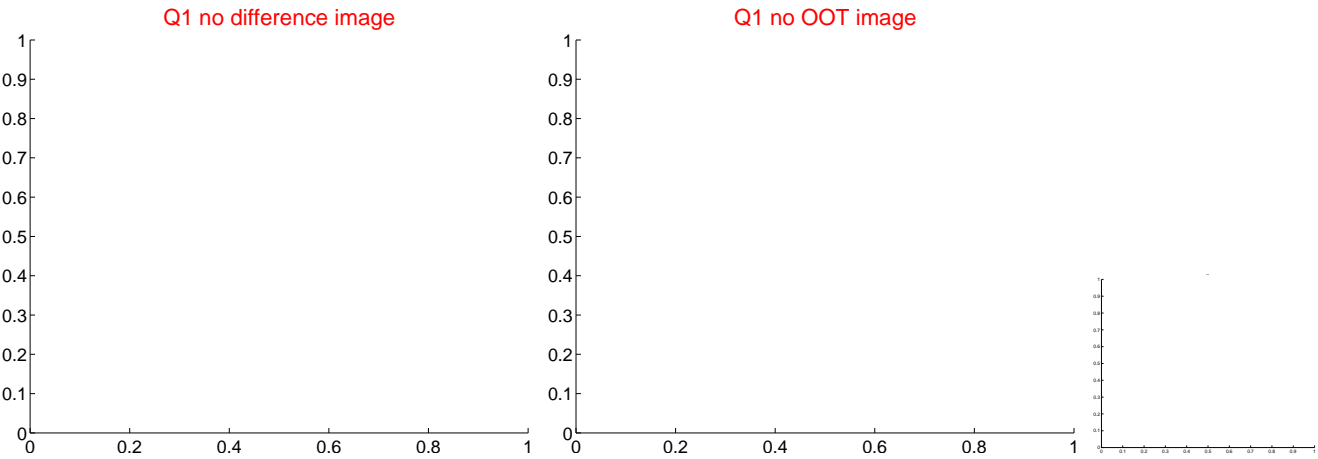
The direct PRF centroid is offset from the target star catalog position by about 0.25 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	5.737 ± 1.352	4.24	2.822 ± 2.599	4.994 ± 0.504
PRF-fit source offset from KIC position	6.025 ± 1.320	4.56	2.930 ± 2.545	5.265 ± 0.526
photometric centroid source offset	1.08 ± 1.28	0.84	0.48 ± 0.86	0.97 ± 1.37

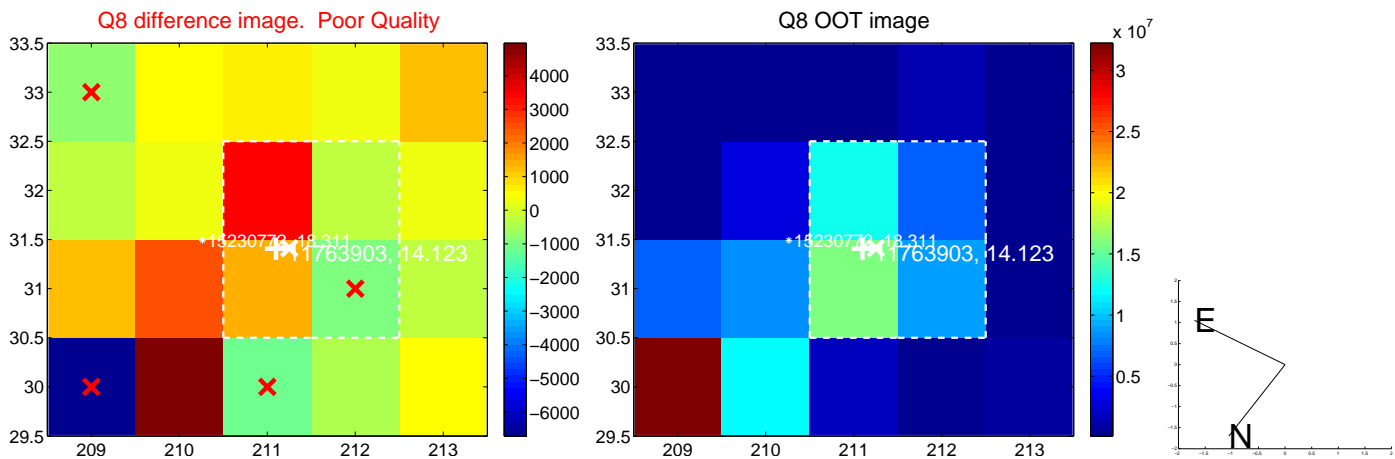
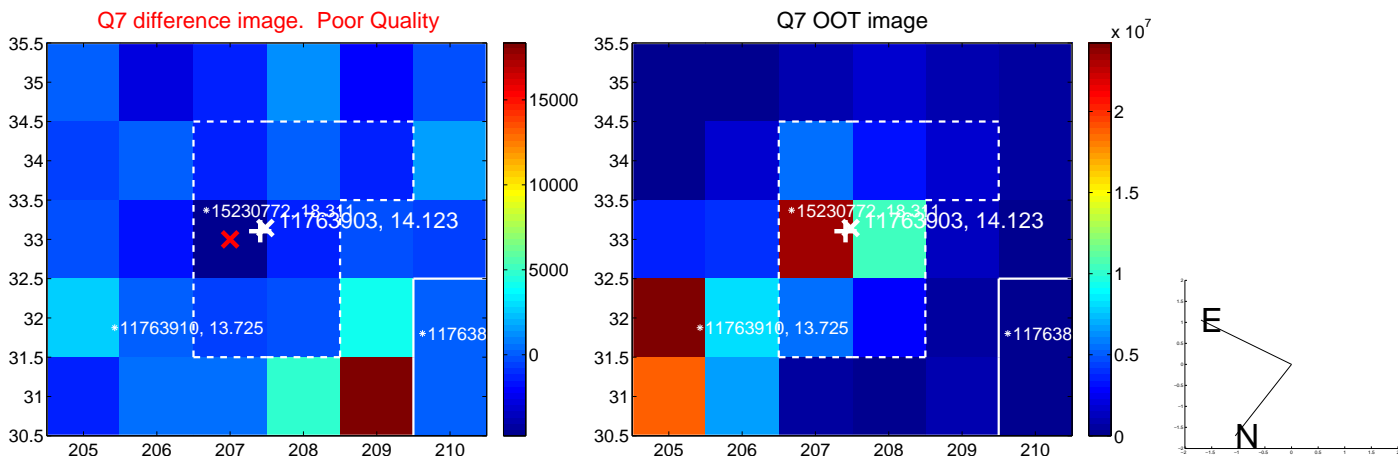
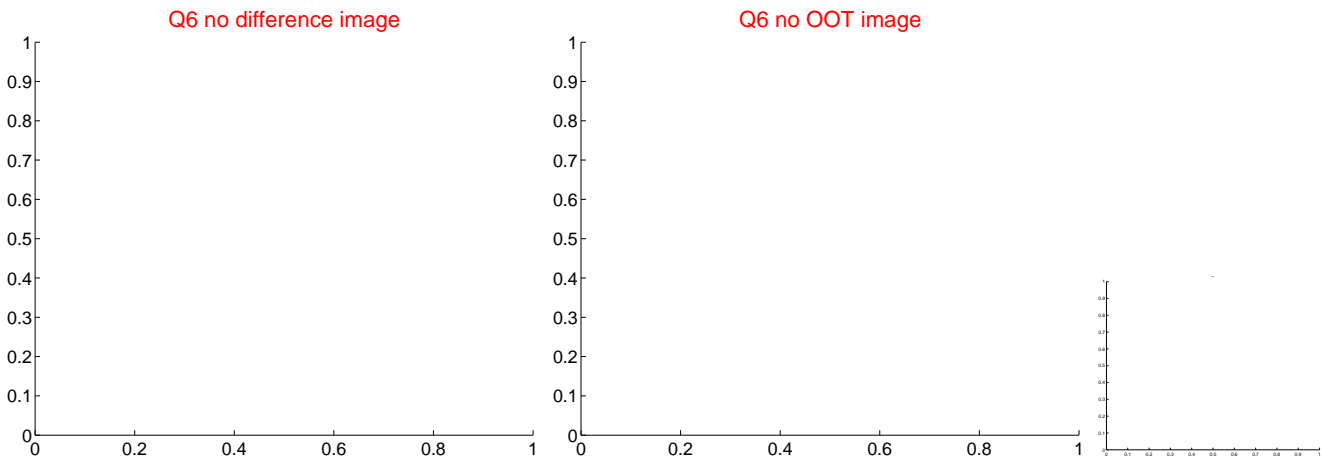
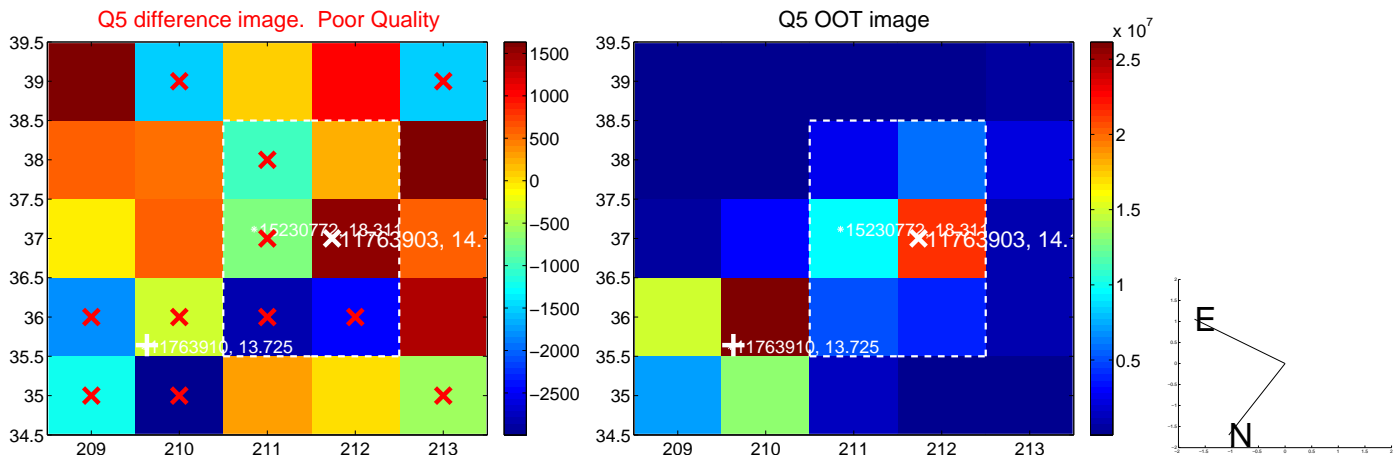


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

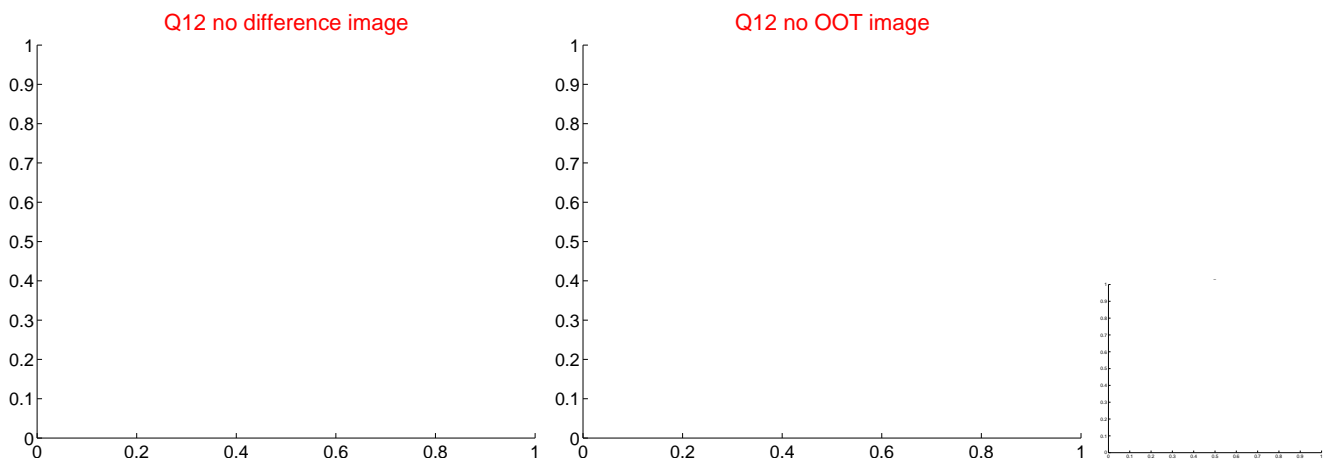
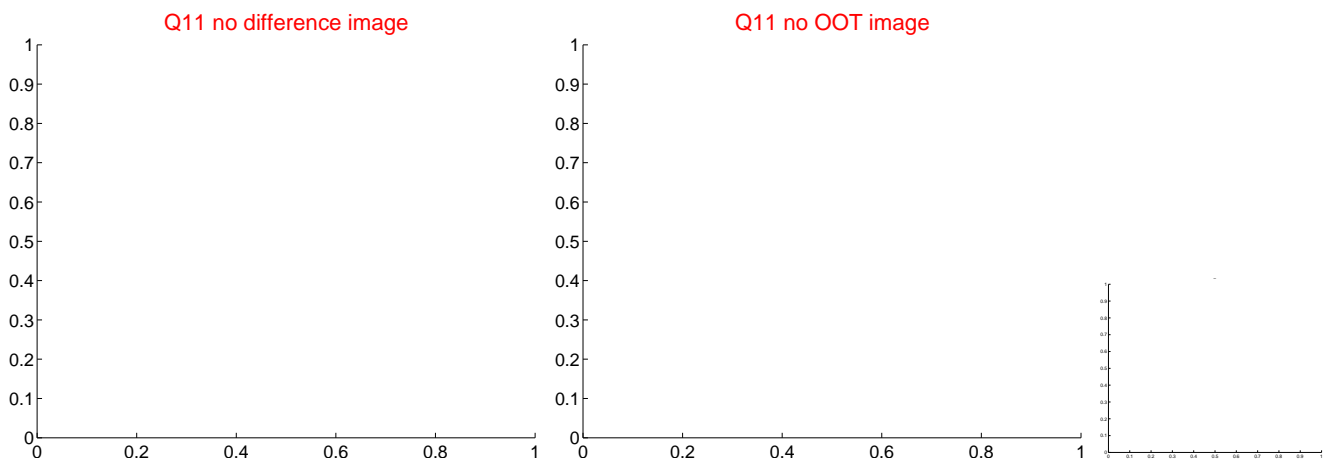
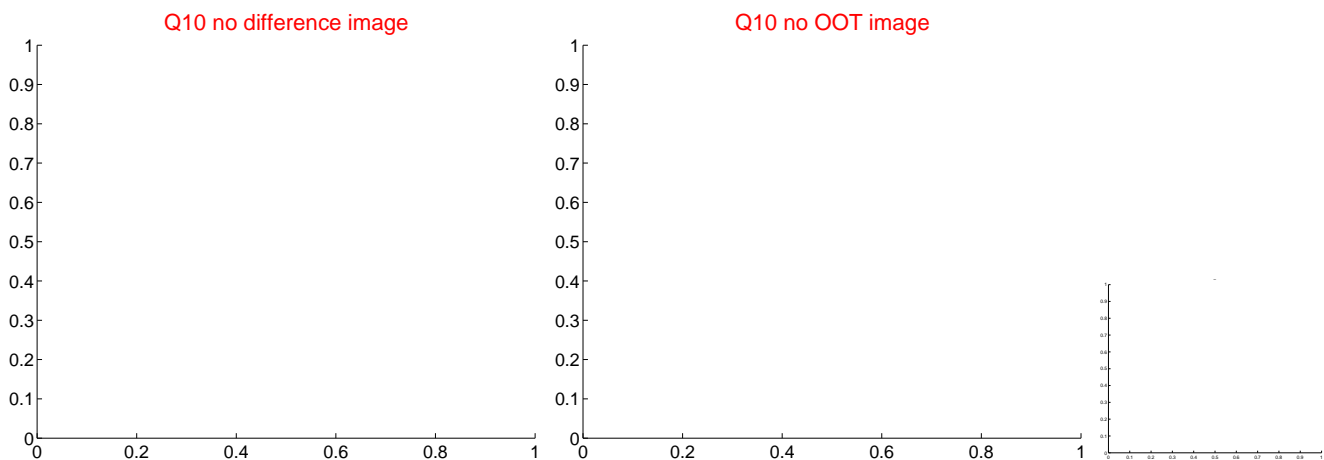
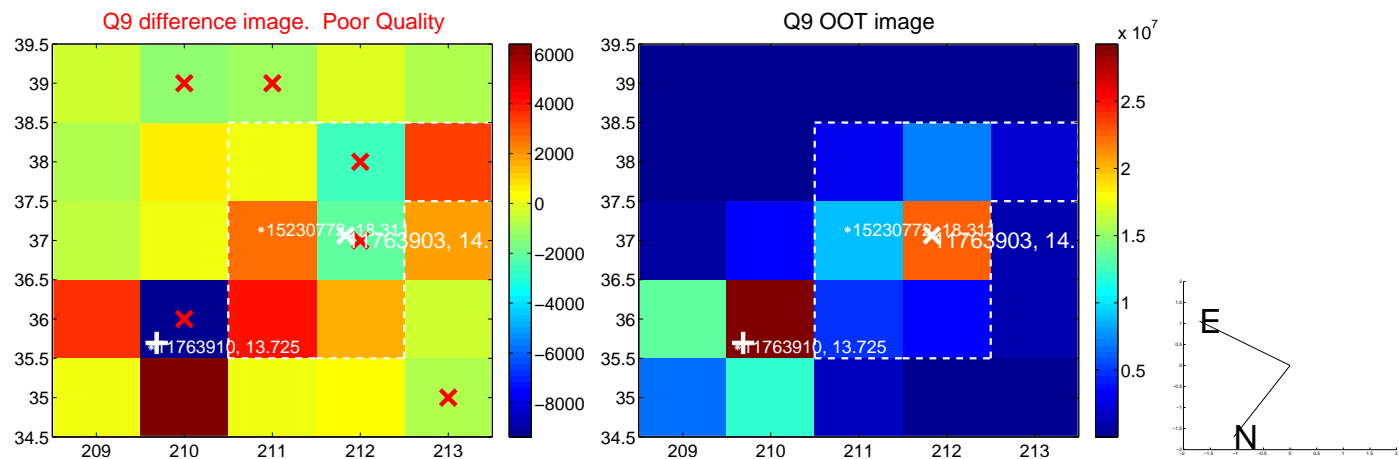
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



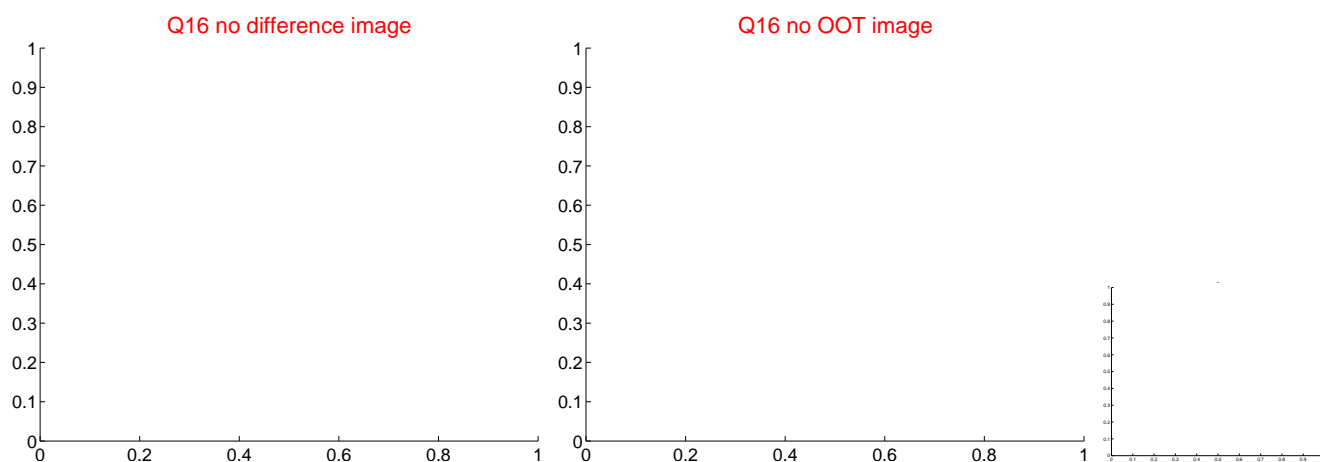
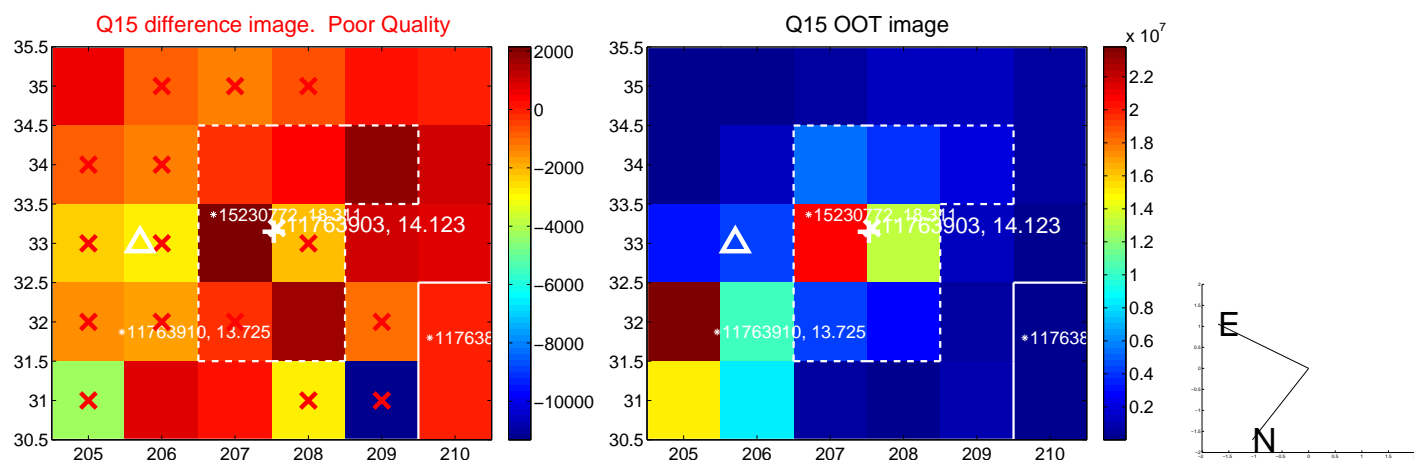
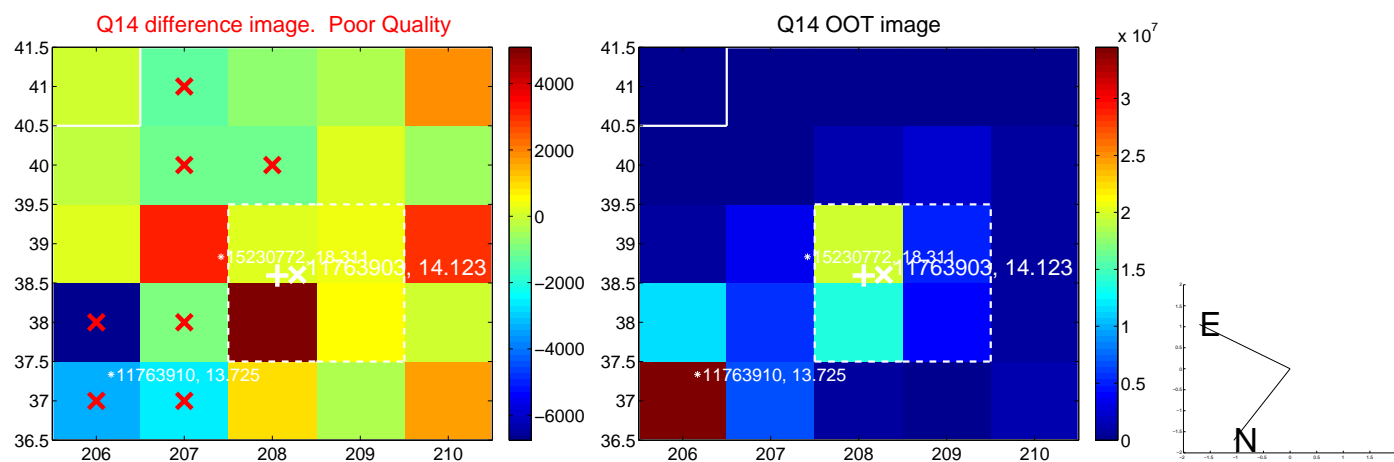
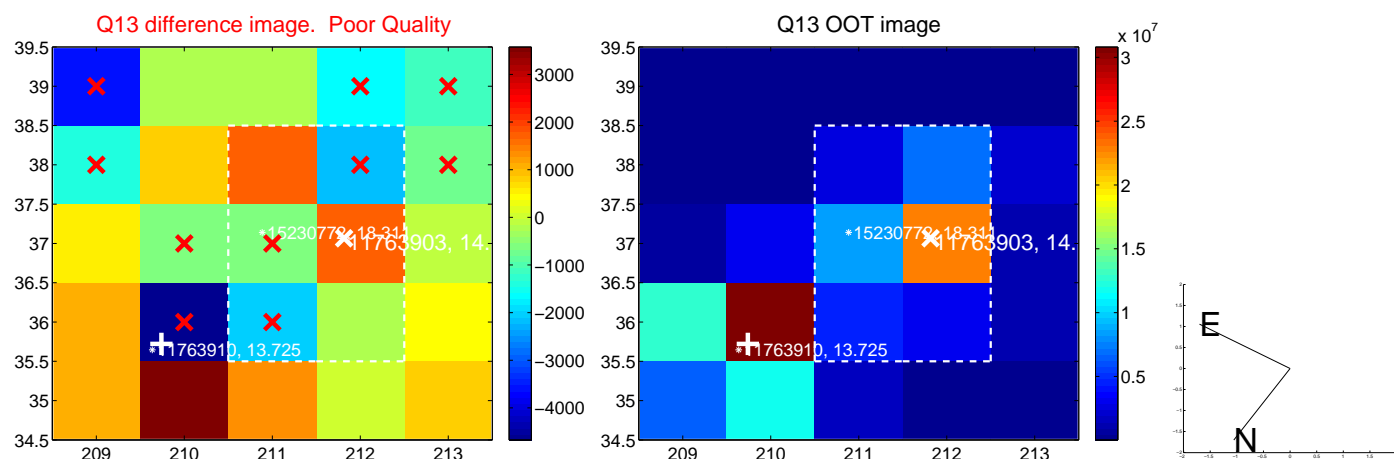
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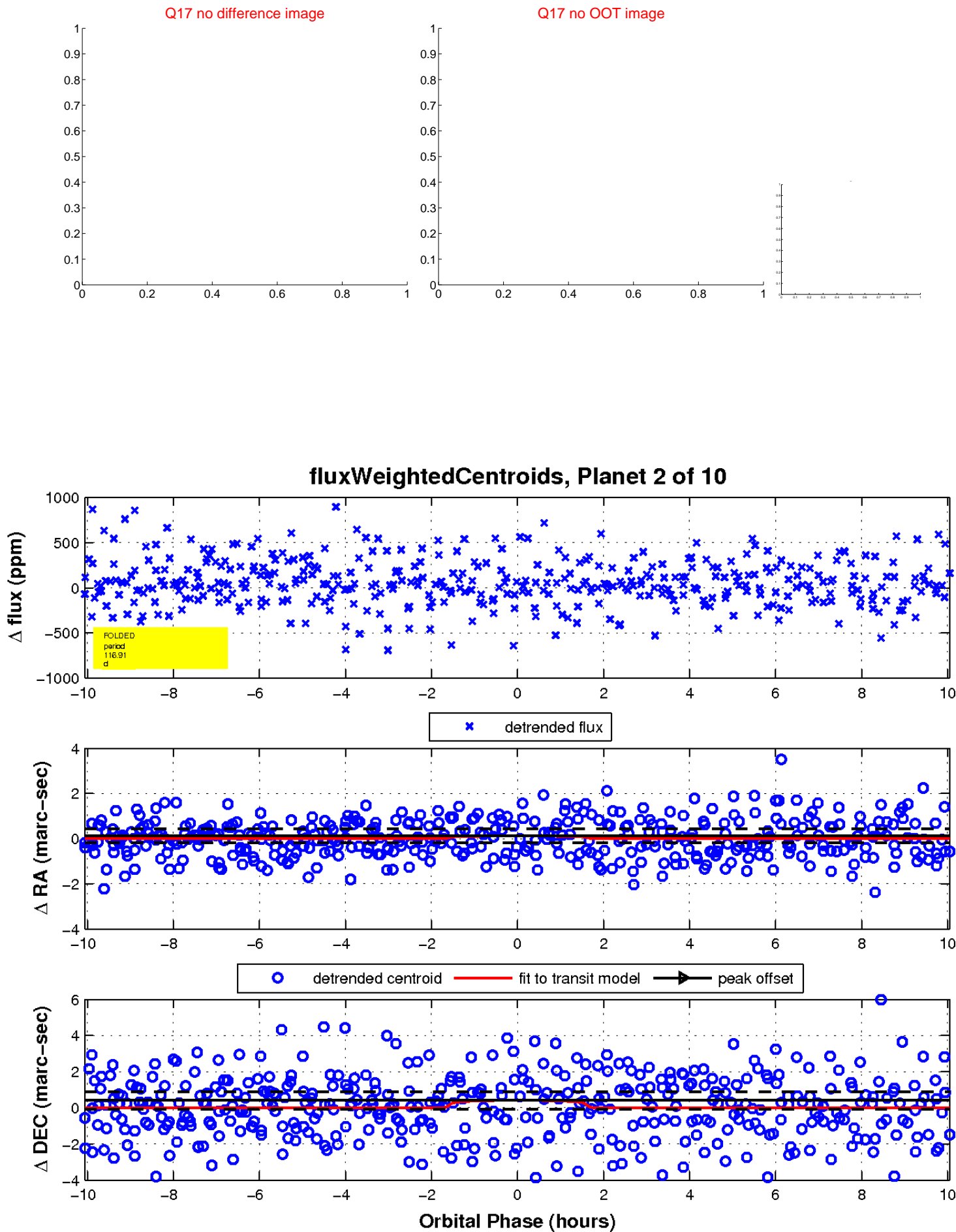
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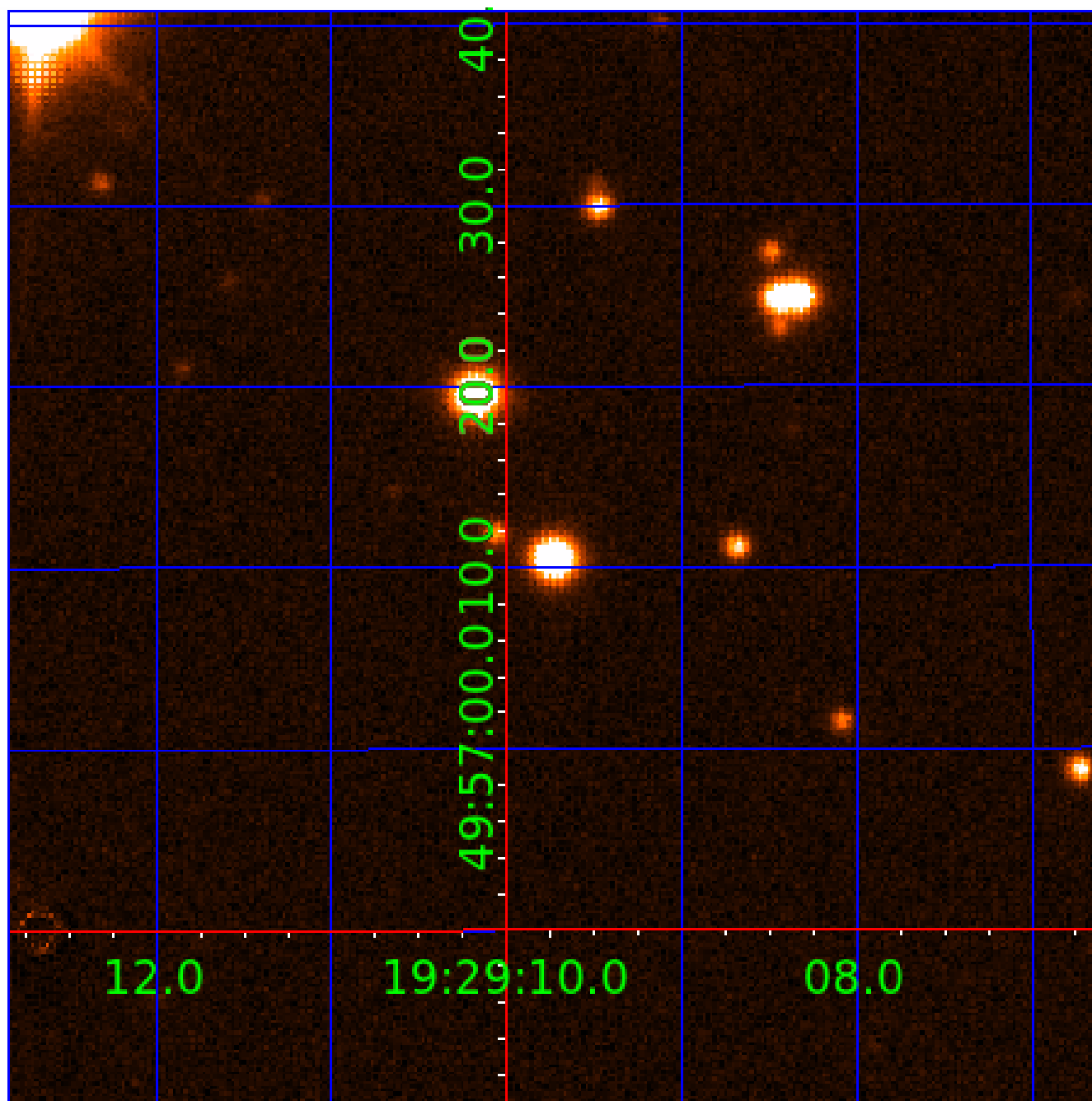


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

Q1-17 DR25 TCE Parameters

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

TCE	Run Type	Disp	Score	N	S	C	E	Comments
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011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

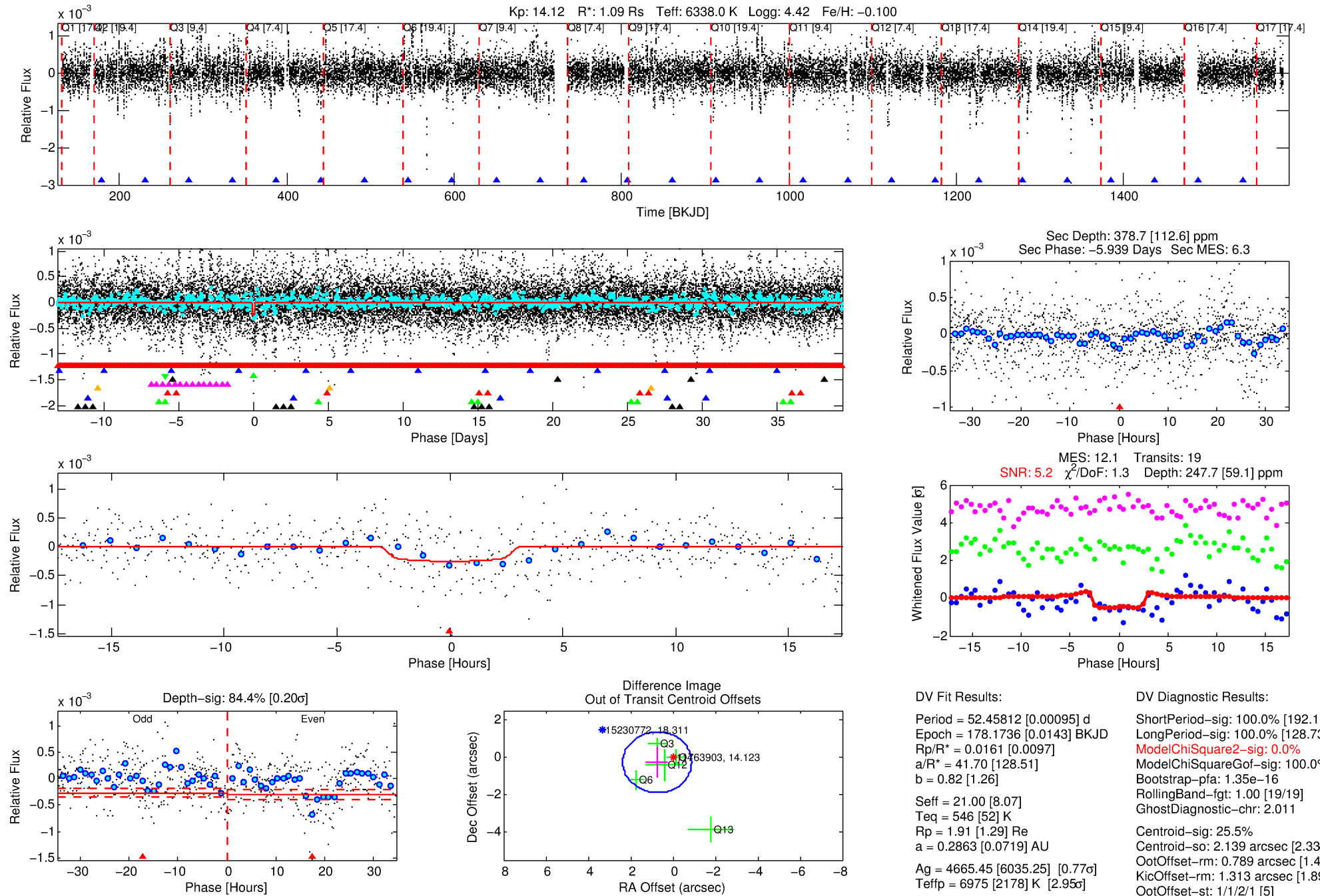
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-03

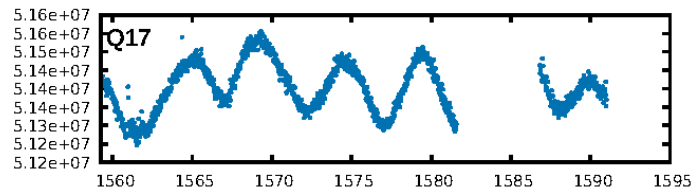
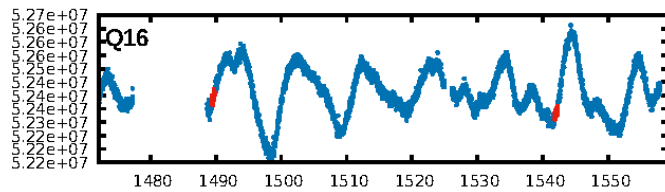
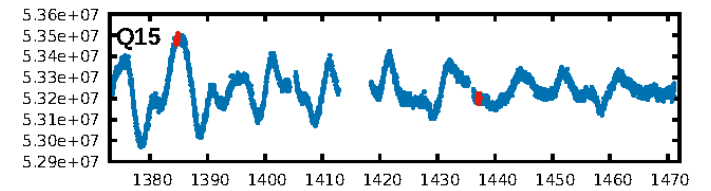
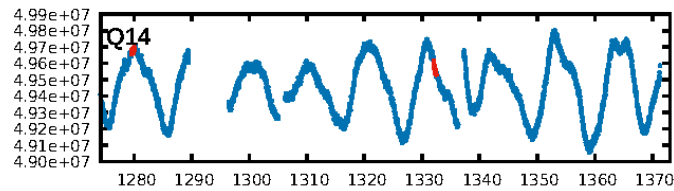
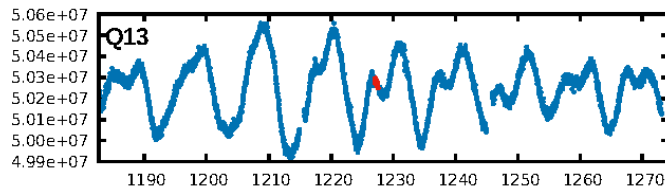
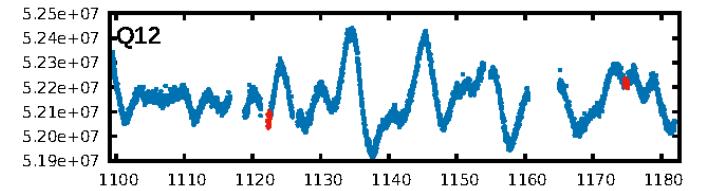
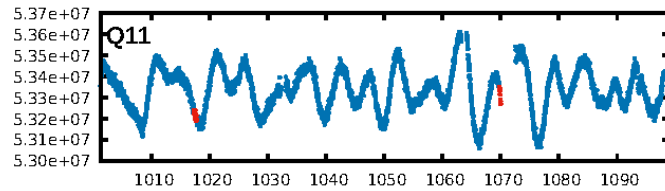
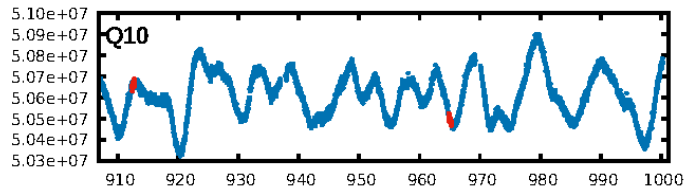
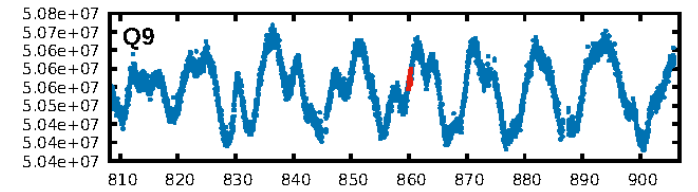
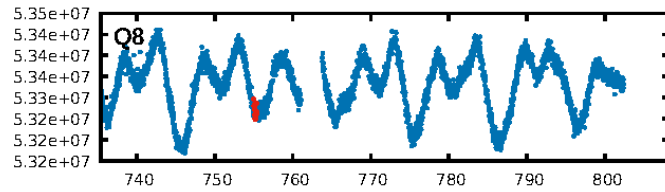
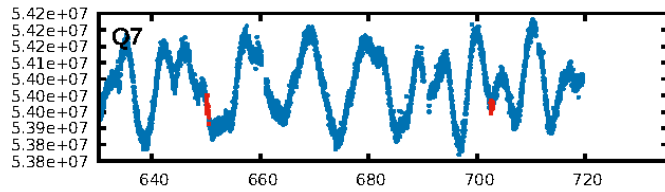
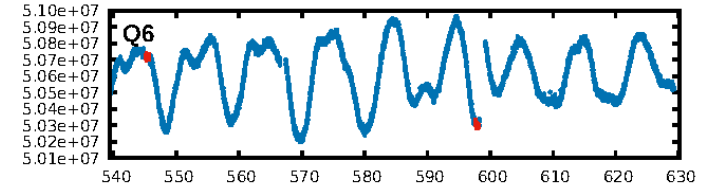
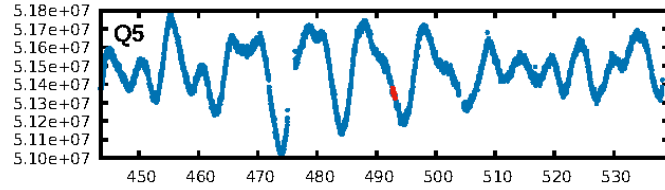
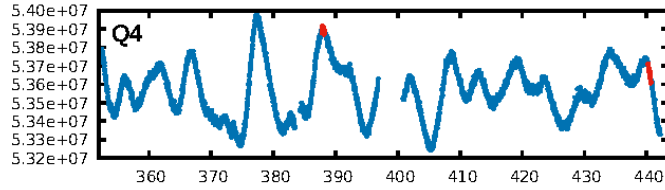
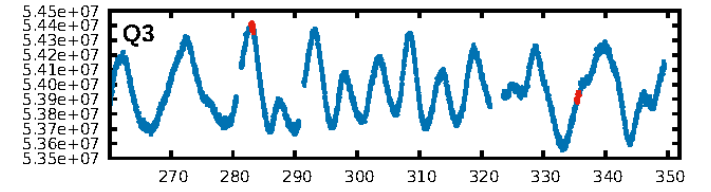
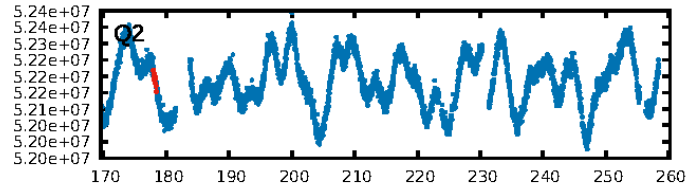
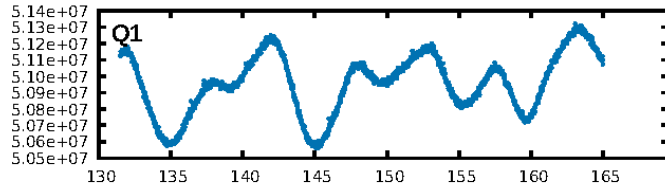
No Significant Match Found

DV One-Page Summary

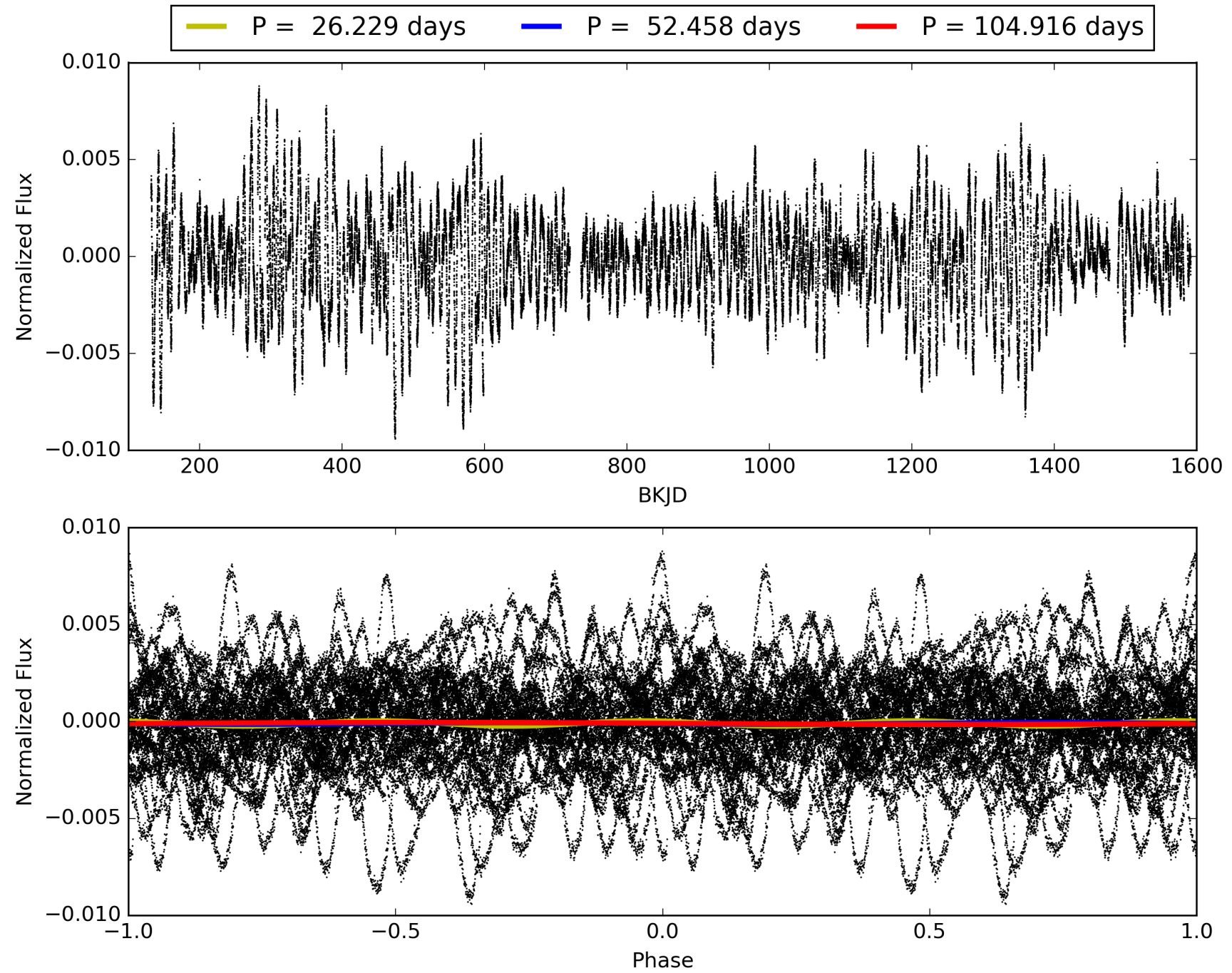
KIC: 11763903 Candidate: 3 of 10 Period: 52.458 d



TCE 011763903-03, PDC Light Curves

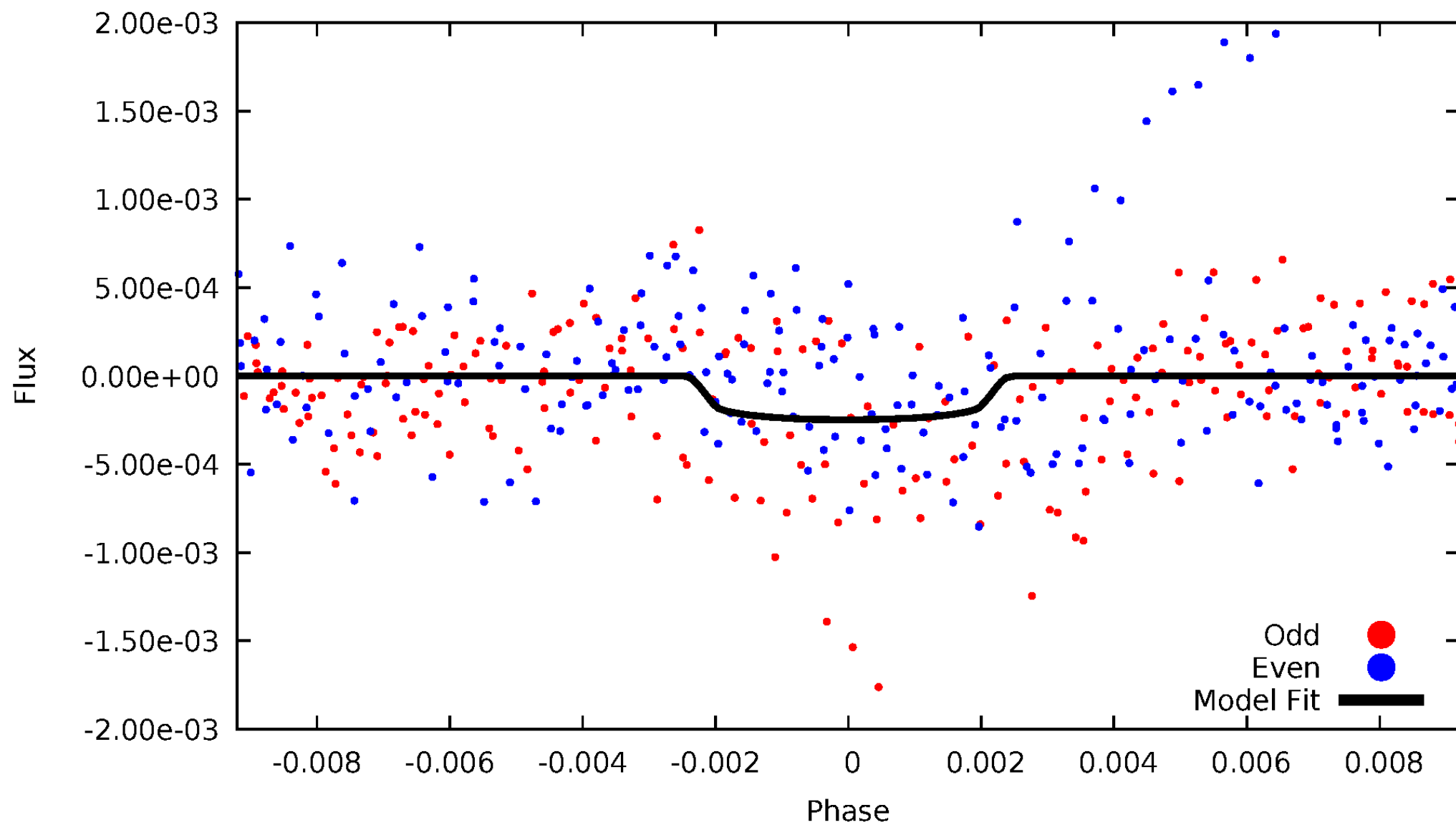


TCE 011763903-03



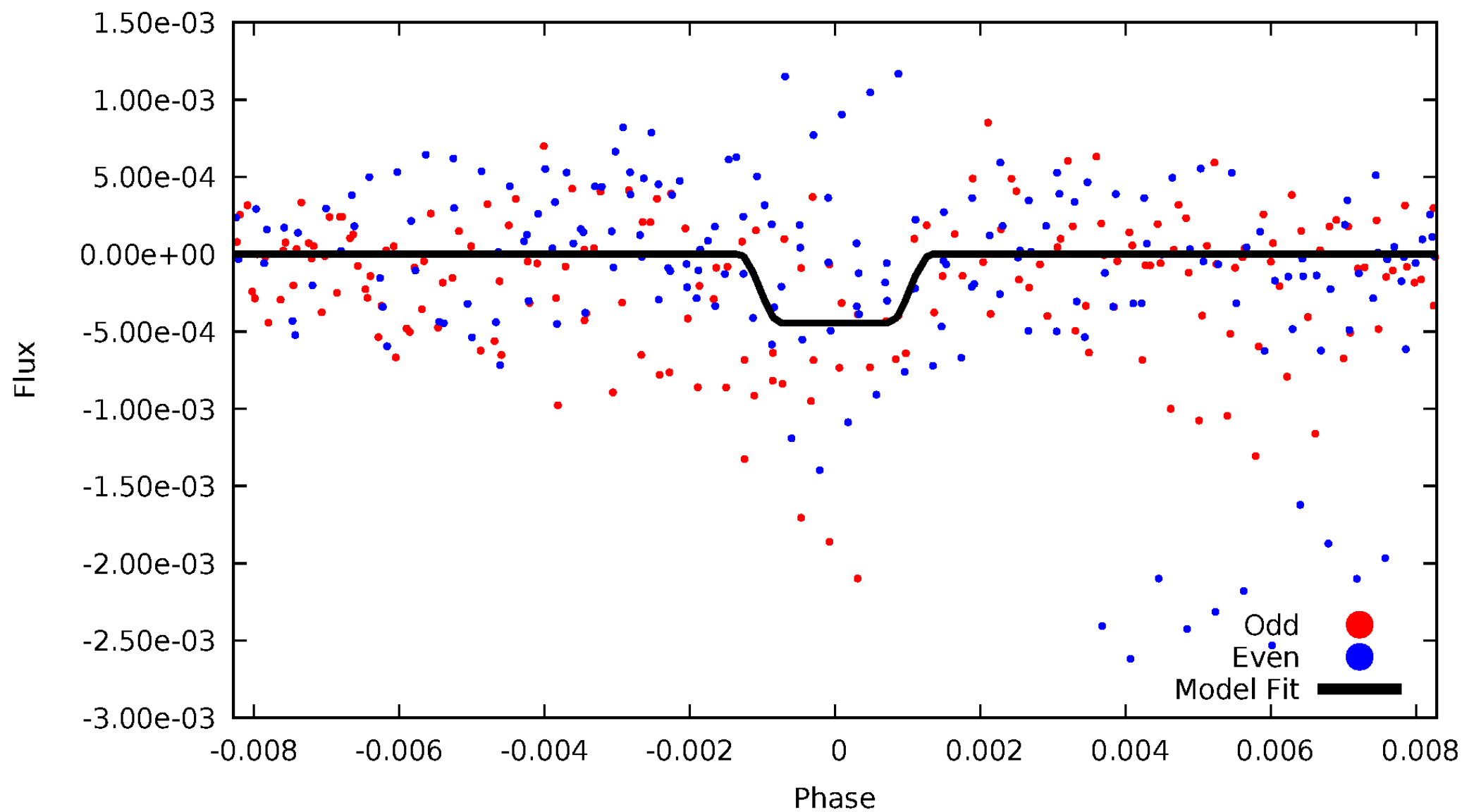
DV Odd/Even

TCE 011763903-03



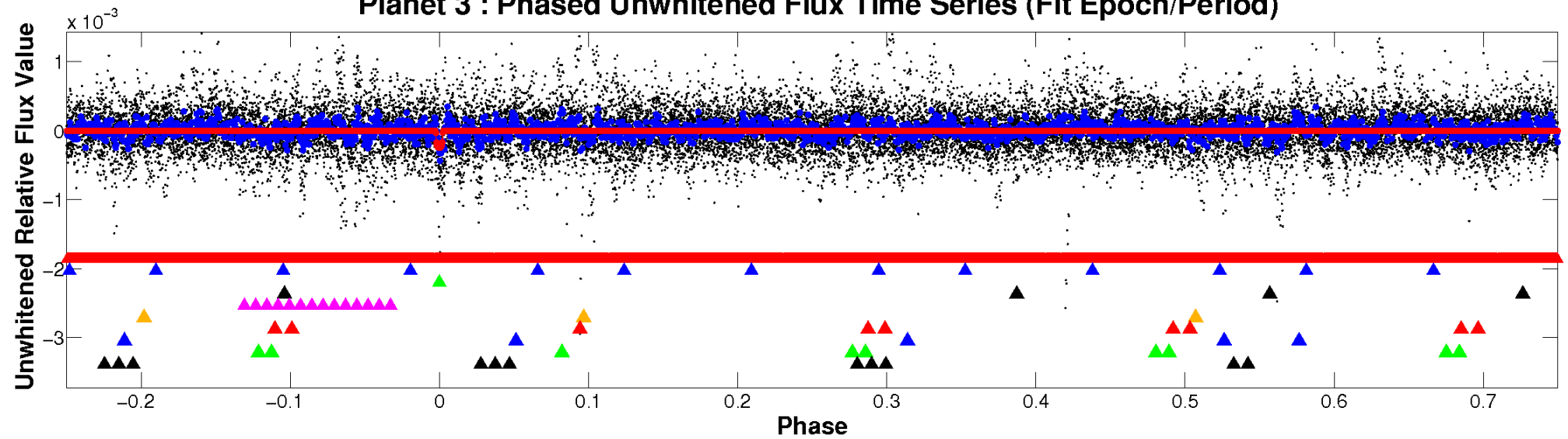
ALT Odd/Even

TCE 011763903-03

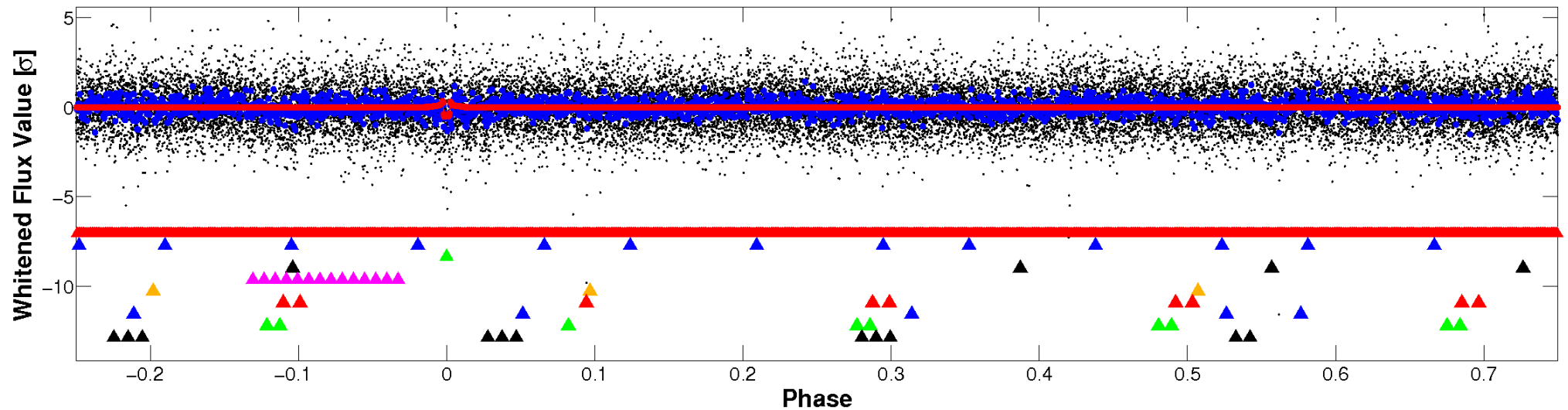


Non-Whitened Vs. Whitened Light Curve

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

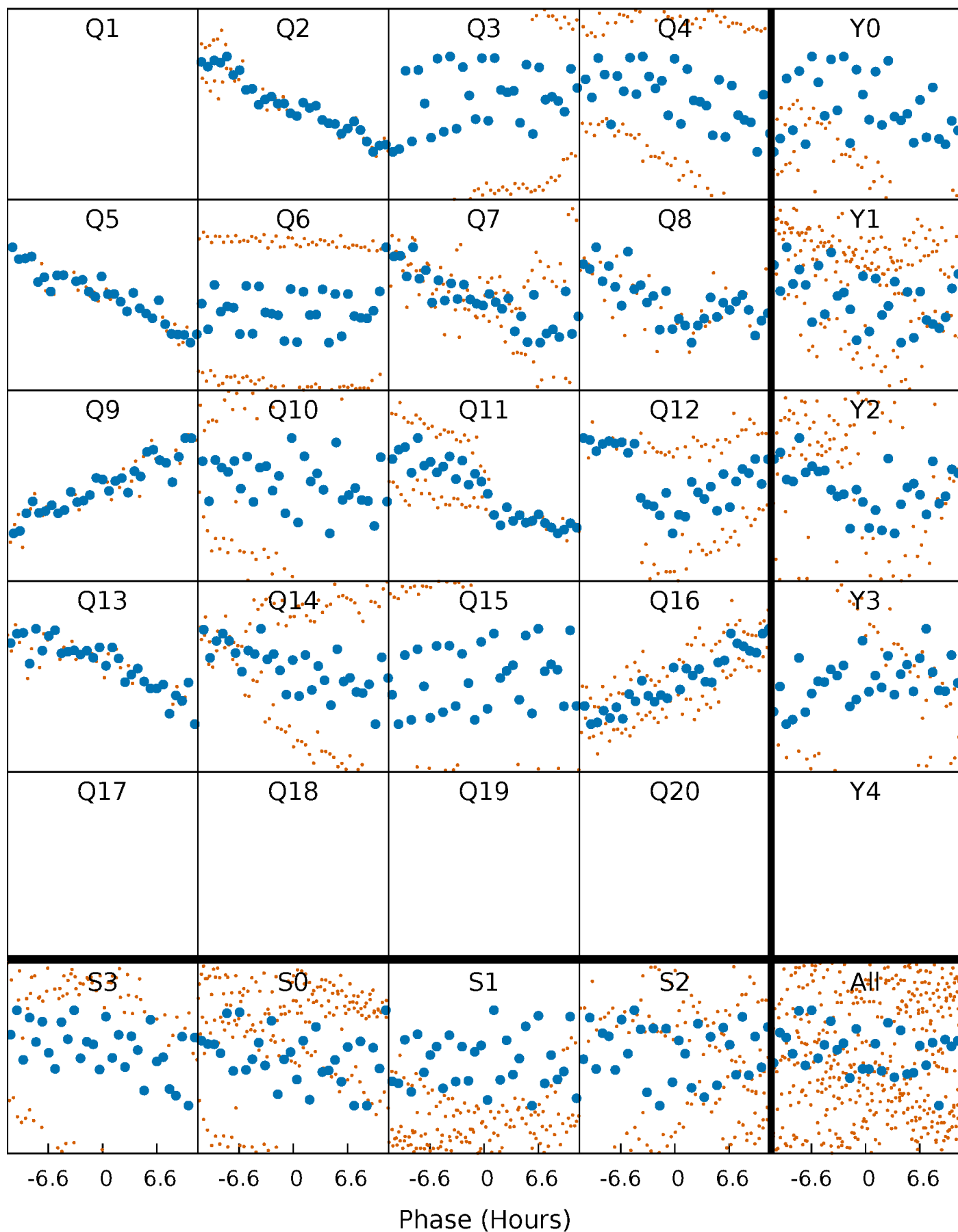


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



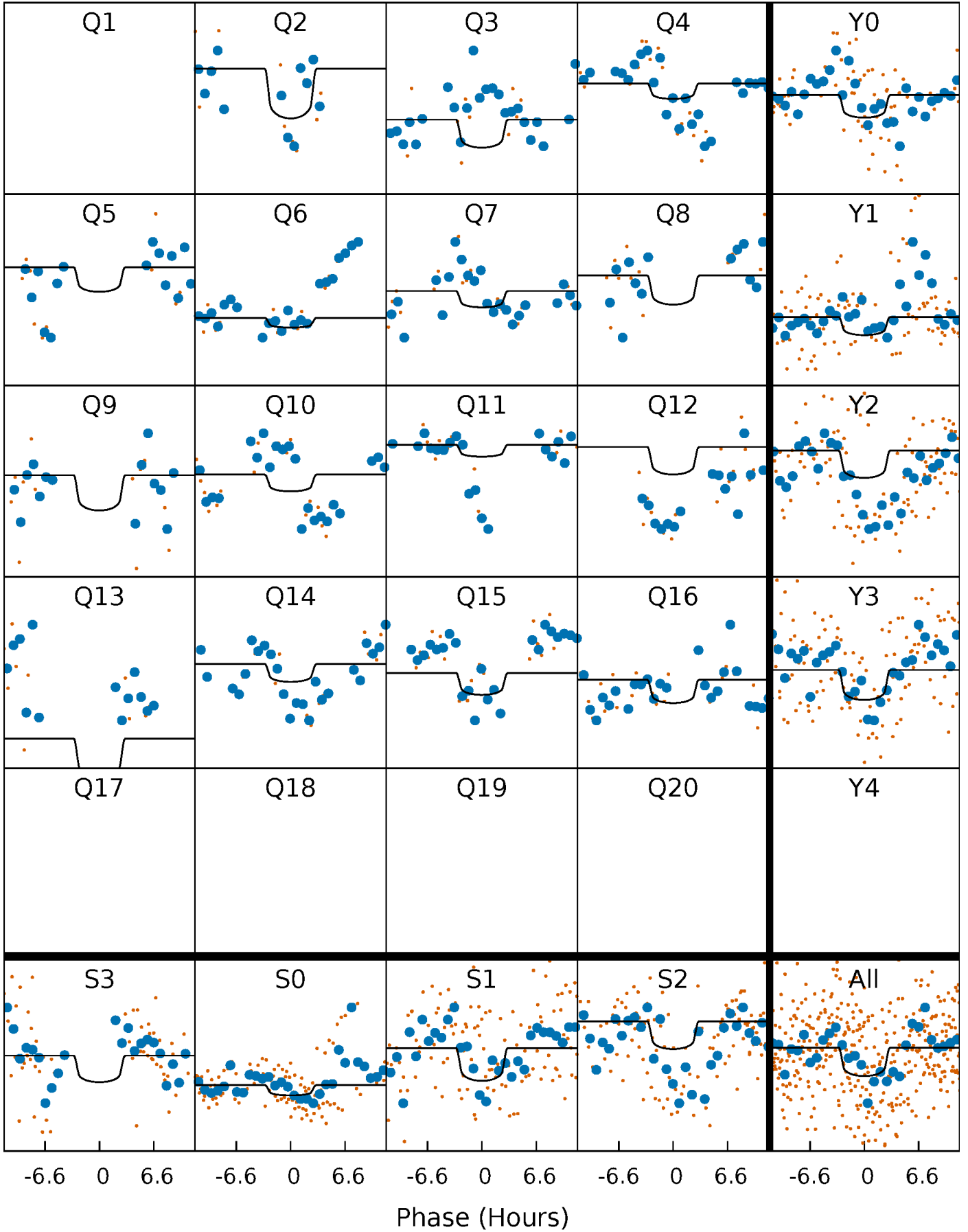
PDC Quarter-Phased Transit Curves

TCE 011763903-03 P= 52.458124 Days $T_0=178.173580$ (BKJD)



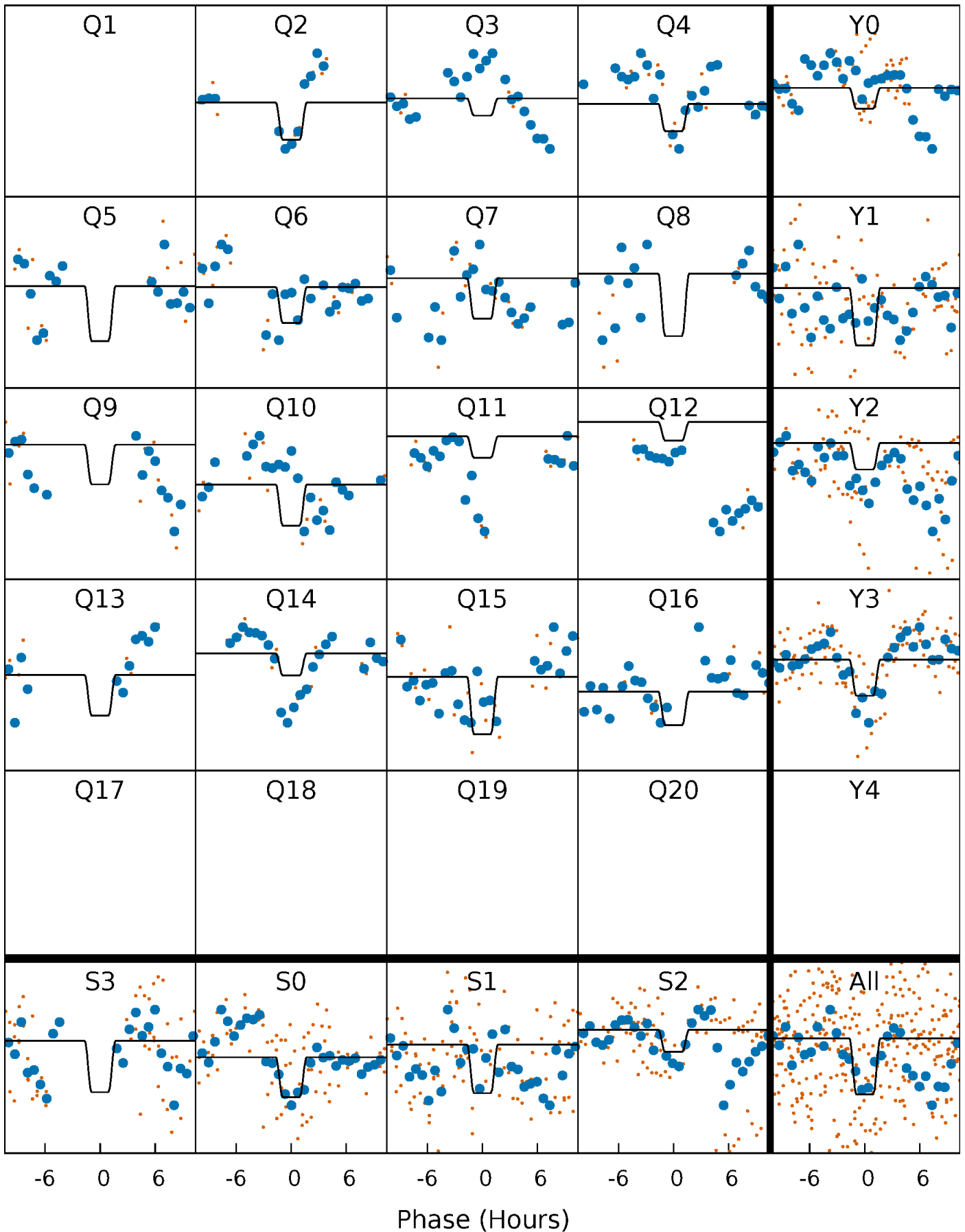
DV Quarter-Phased Transit Curves

TCE 011763903-03 P= 52.458124 Days $T_0=178.173580$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

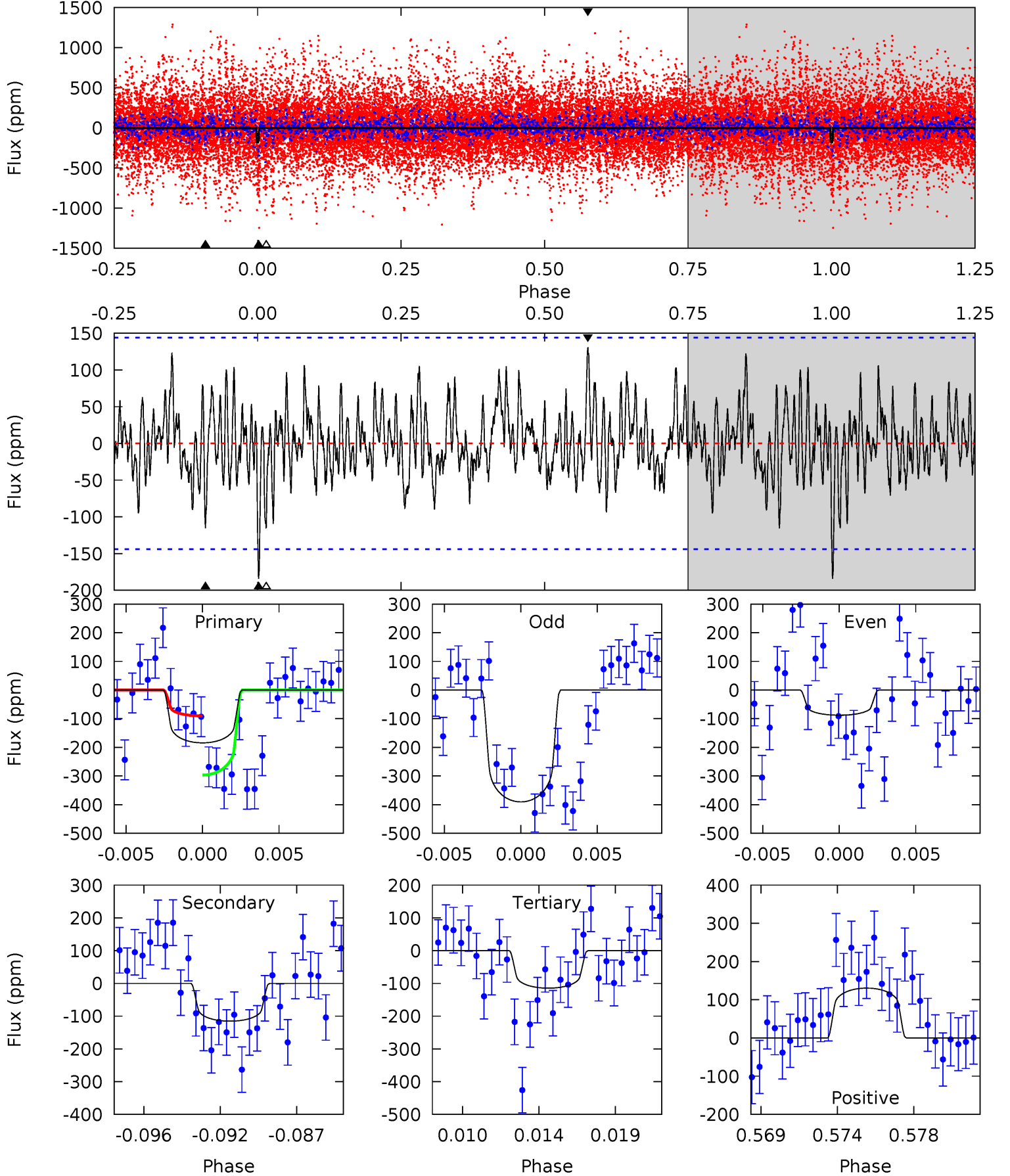
TCE 011763903-03 P= 52.459001 Days $T_0=178.166312$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-03, P = 52.458124 Days, E = 125.715456 Days

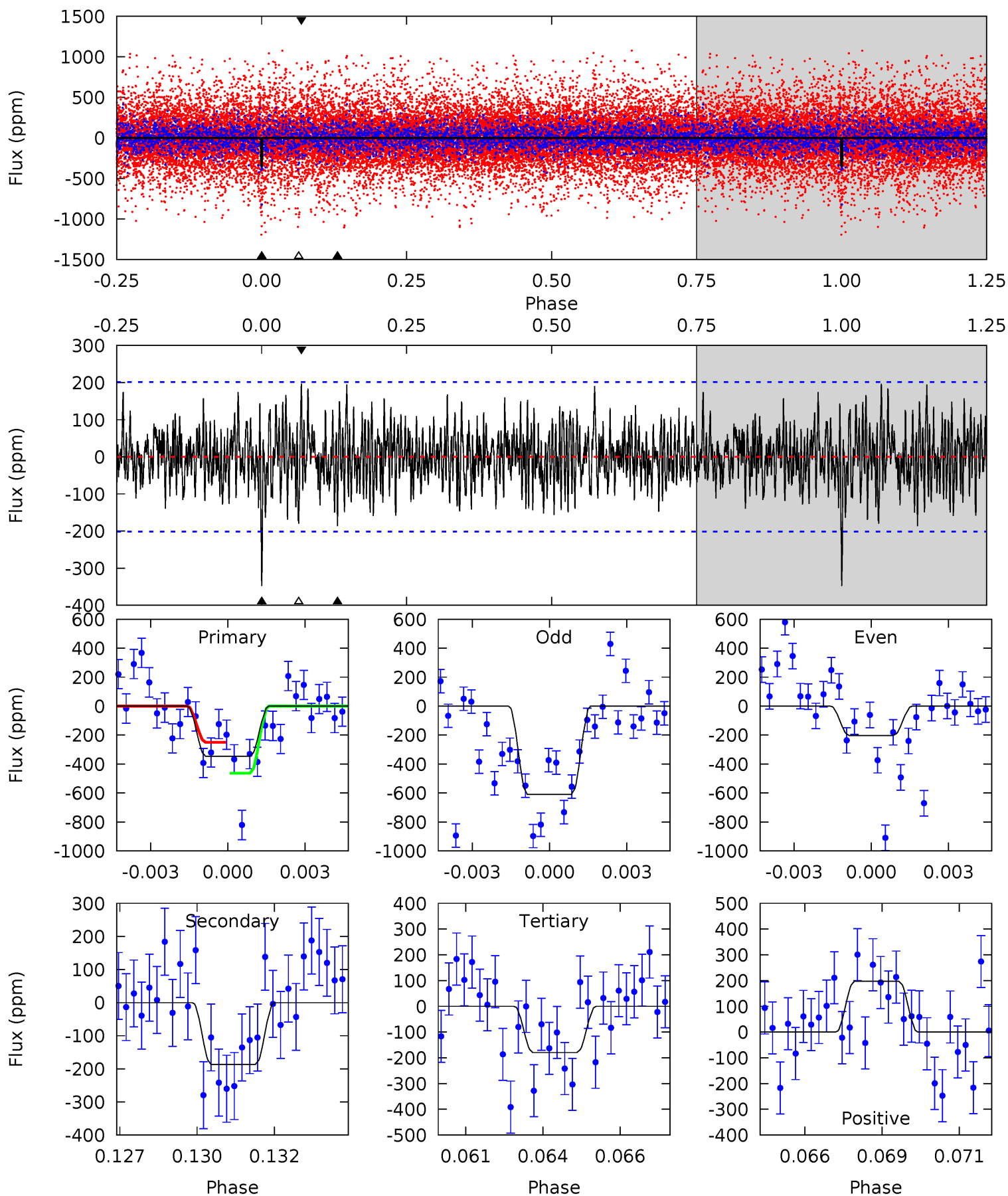
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.61	4.14	4.11	4.68	5.16	2.82	1.44	2.50	1.93	0.03	-0.54	5.38	1.66	0.41	3.69



Alt Model-Shift Uniqueness Test

011763903-03, P = 52.459001 Days, E = 125.707311 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.07	4.90	4.71	5.17	5.28	3.02	1.61	4.36	3.90	0.19	-0.28	5.25	1.12	0.36	2.80



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-115 ± 28	$2.07^{+1.22}_{-1.06}$	772^{+54}_{-35}	5051^{+2221}_{-815}	1163^{+3849}_{-709}
Alt.	-187 ± 38	$2.67^{+1.19}_{-1.21}$	772^{+54}_{-36}	5112^{+1578}_{-743}	1157^{+2580}_{-626}

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 $A_{obs} \gg 1.0$

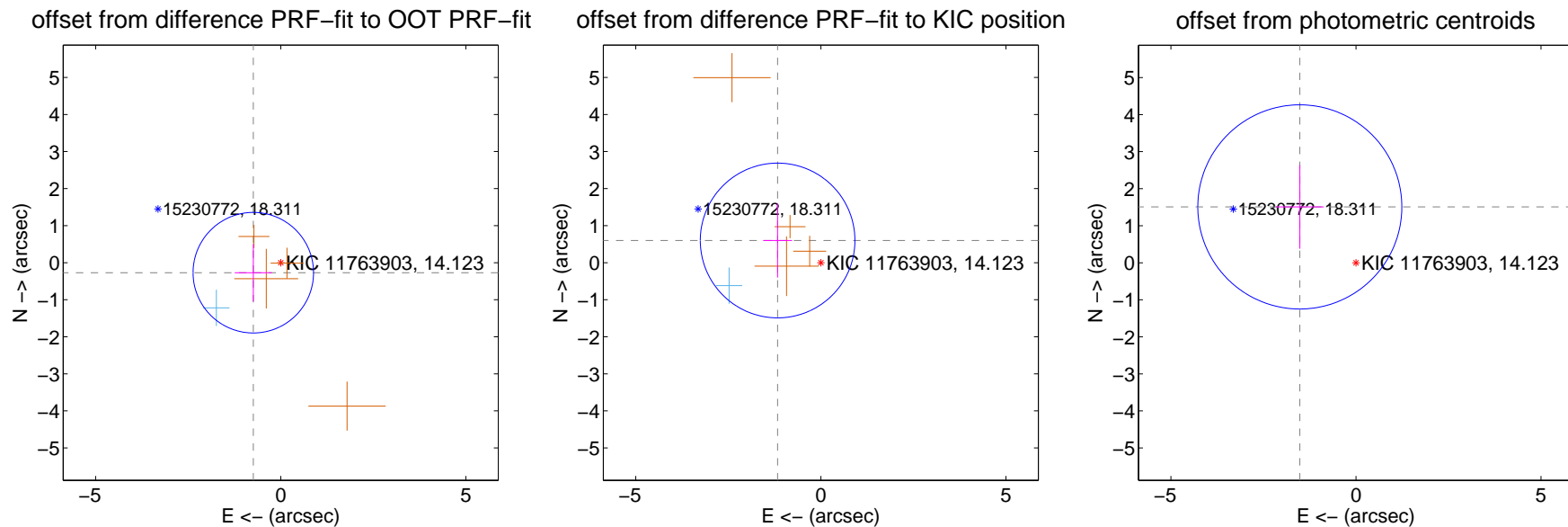
DV Centroid Data

Supplemental centroid analysis for 011763903-03. Kepler magnitude: 14.12. Transit SNR 5.21

There are 1 quarters with good PRF difference image offsets

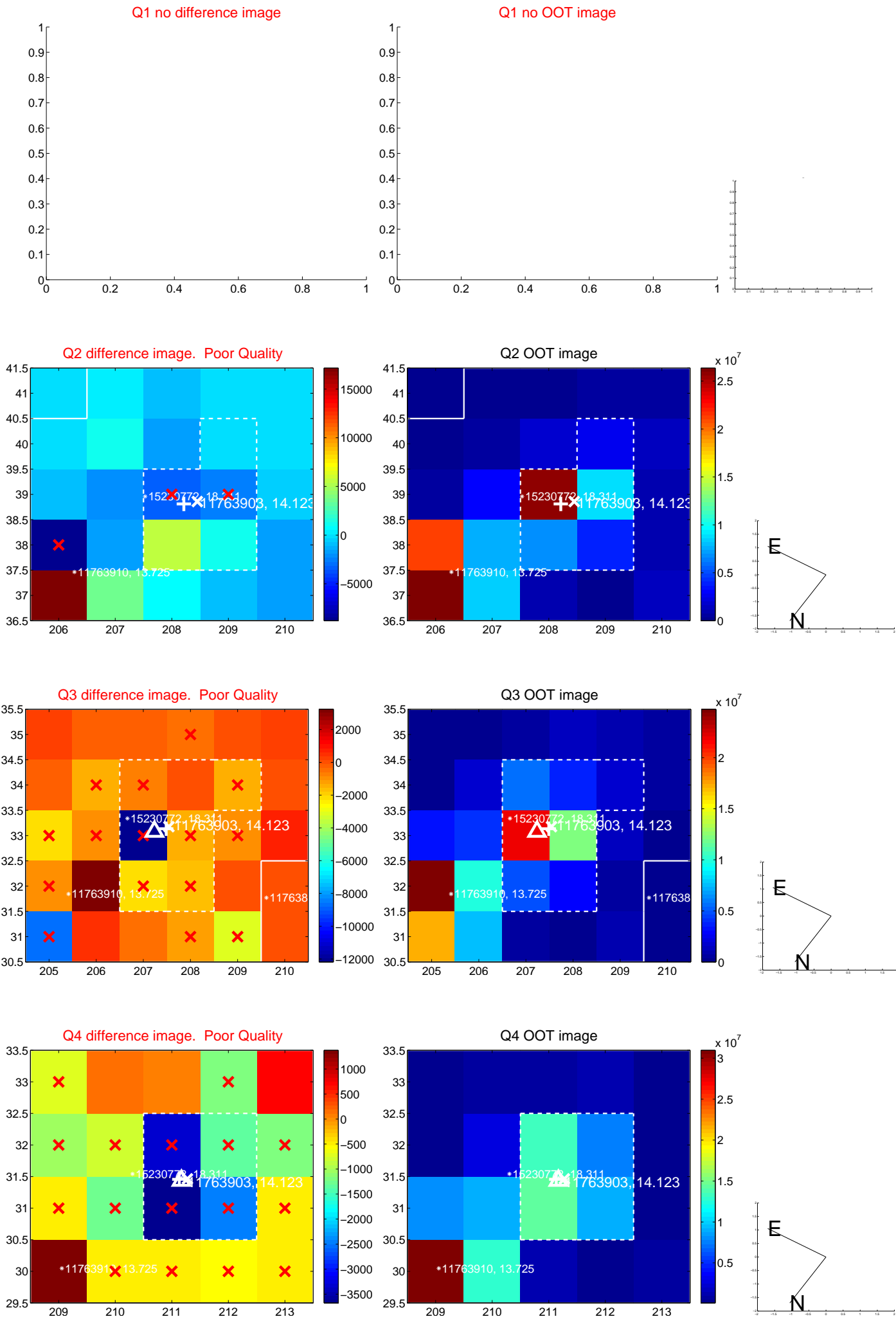
The OOT PRF centroid is offset from the target star catalog position by about 9.81 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.789 ± 0.542	1.45	0.741 ± 0.503	-0.270 ± 0.777
PRF-fit source offset from KIC position	1.313 ± 0.696	1.89	1.168 ± 0.391	0.599 ± 1.001
photometric centroid source offset	2.14 ± 0.92	2.33	1.52 ± 0.65	1.51 ± 1.13

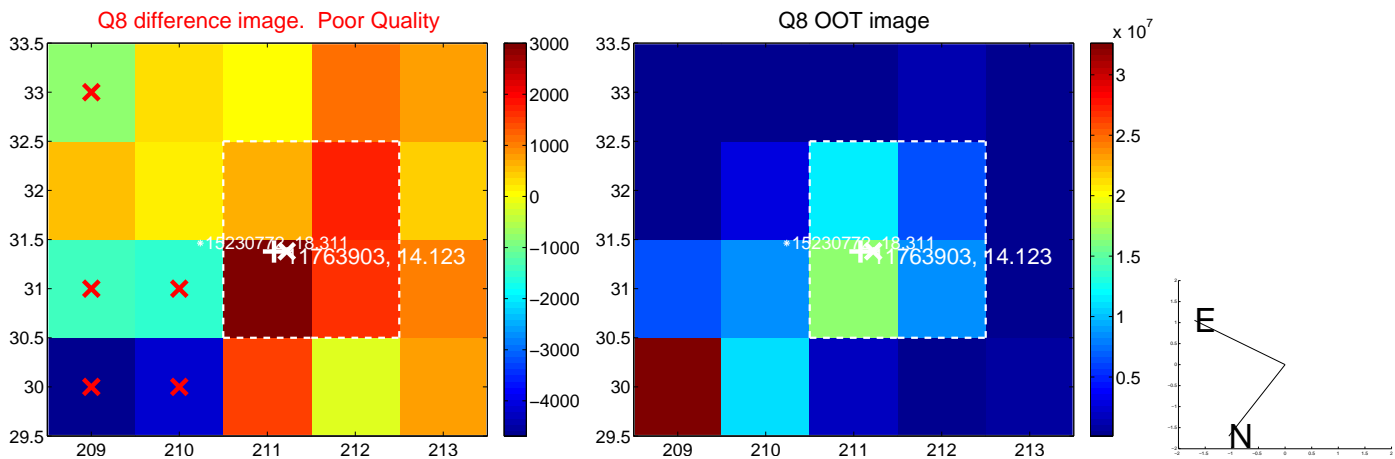
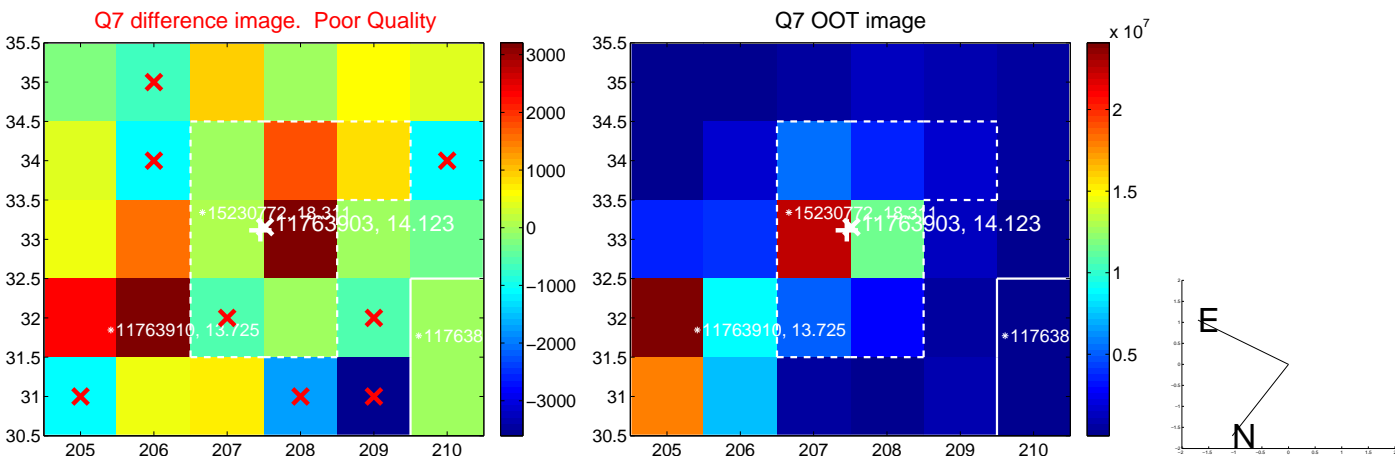
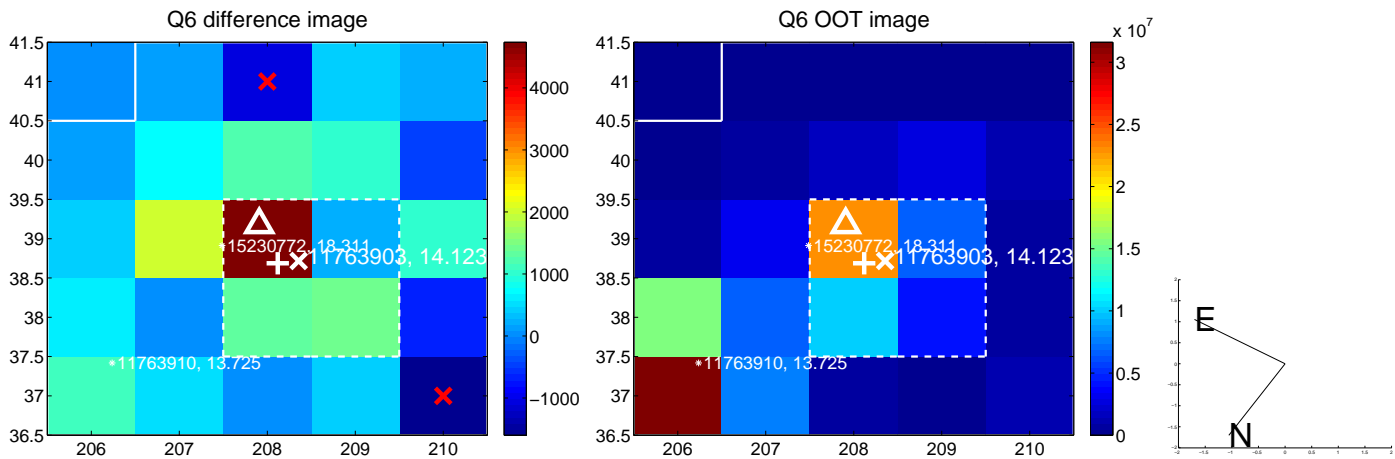
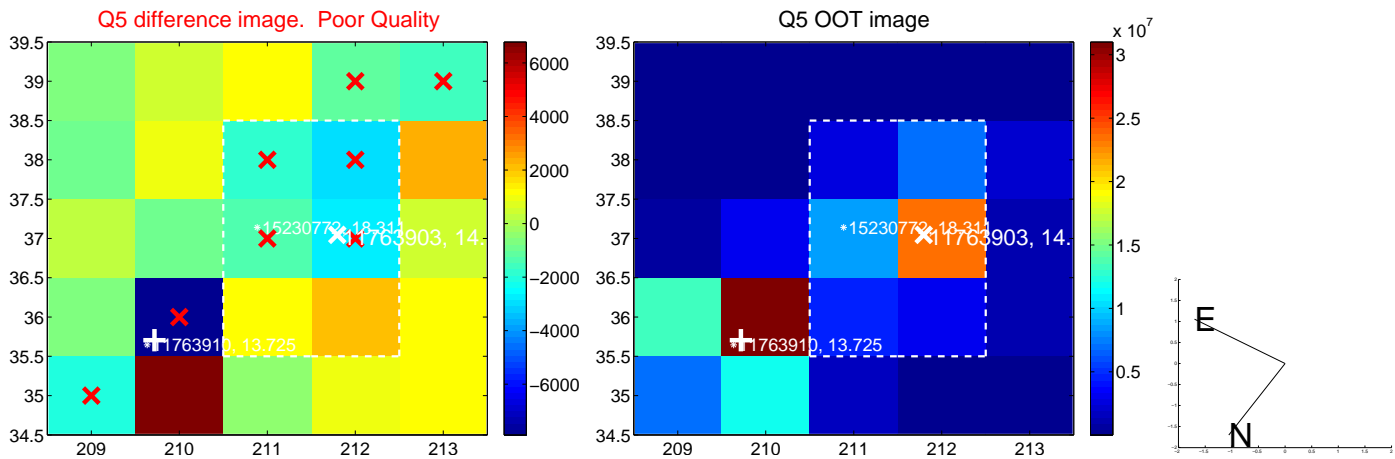


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

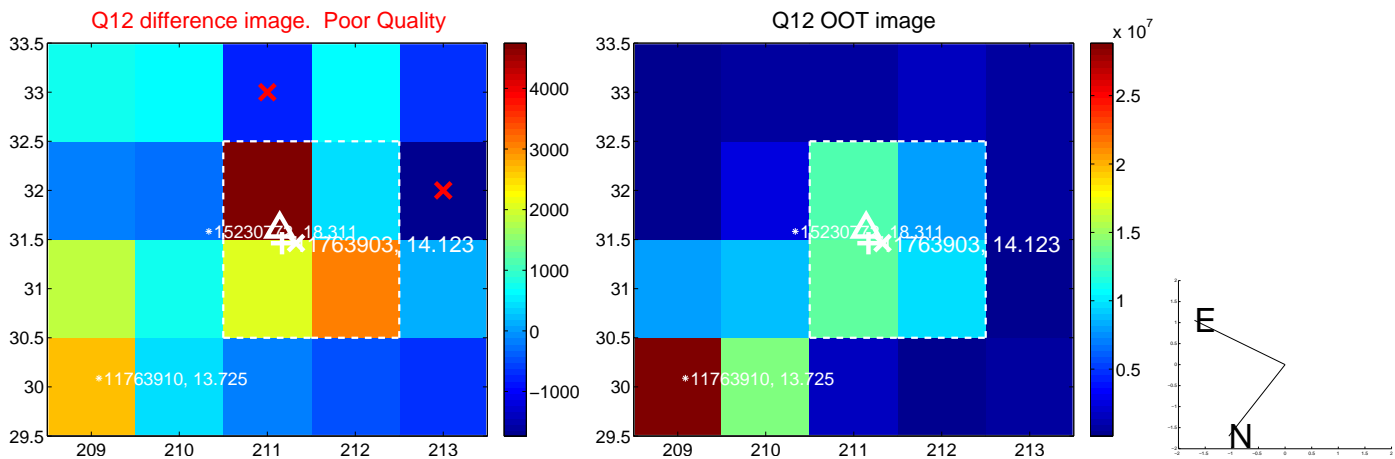
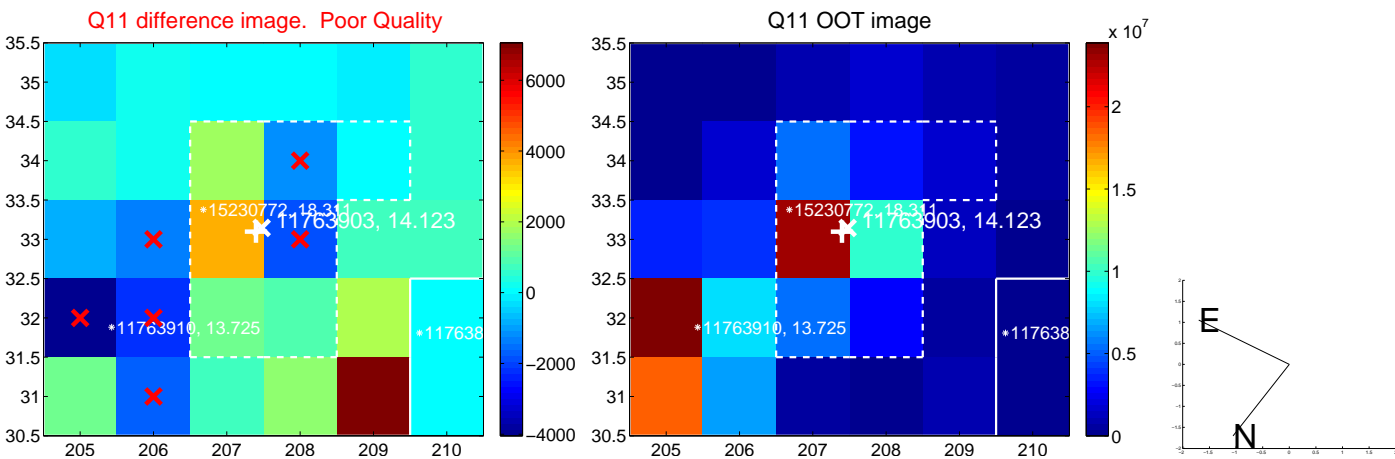
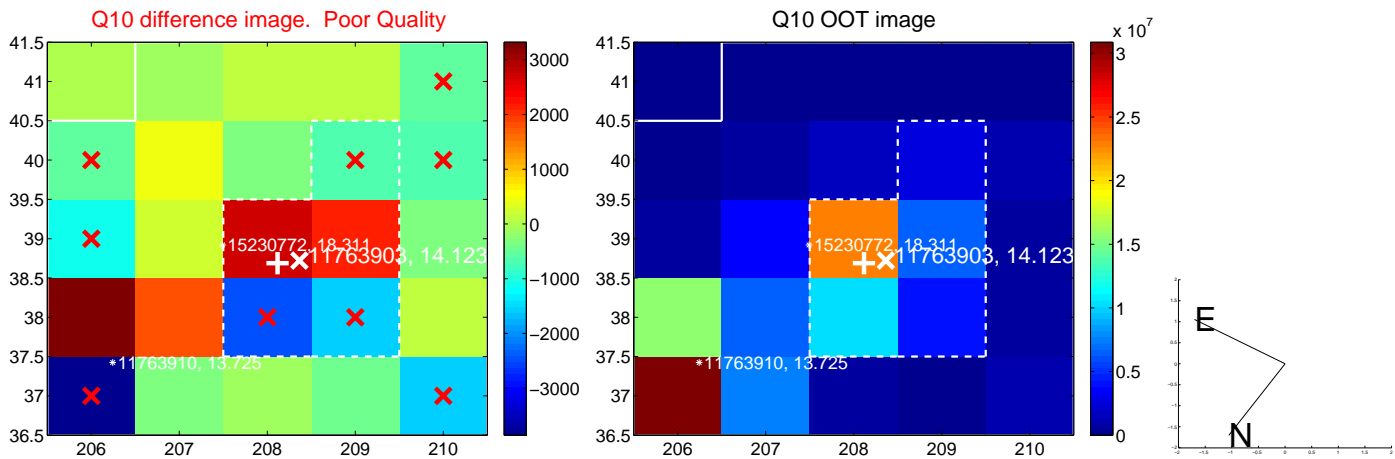
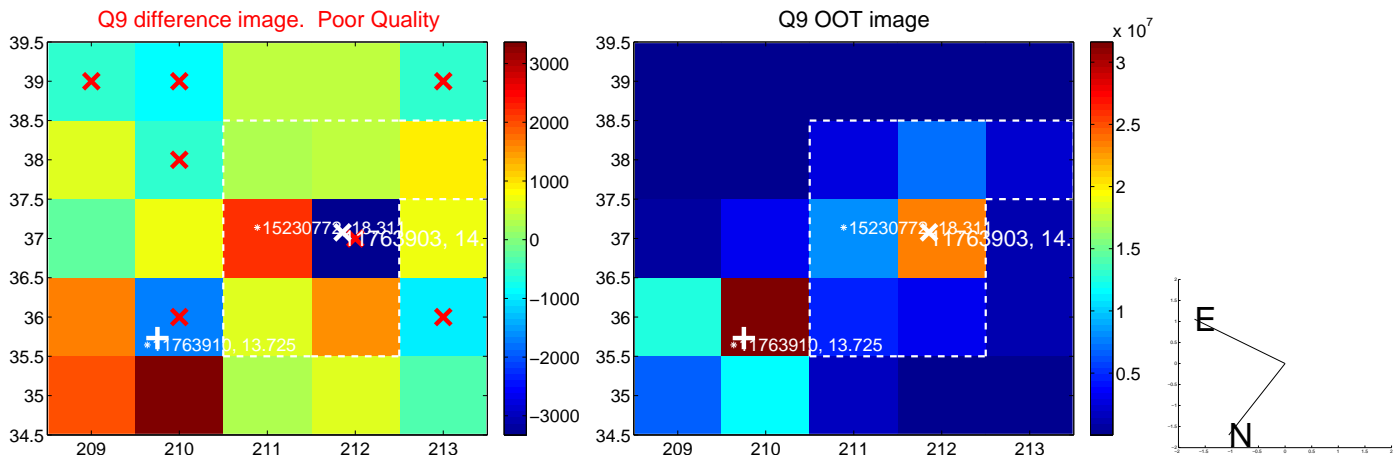
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



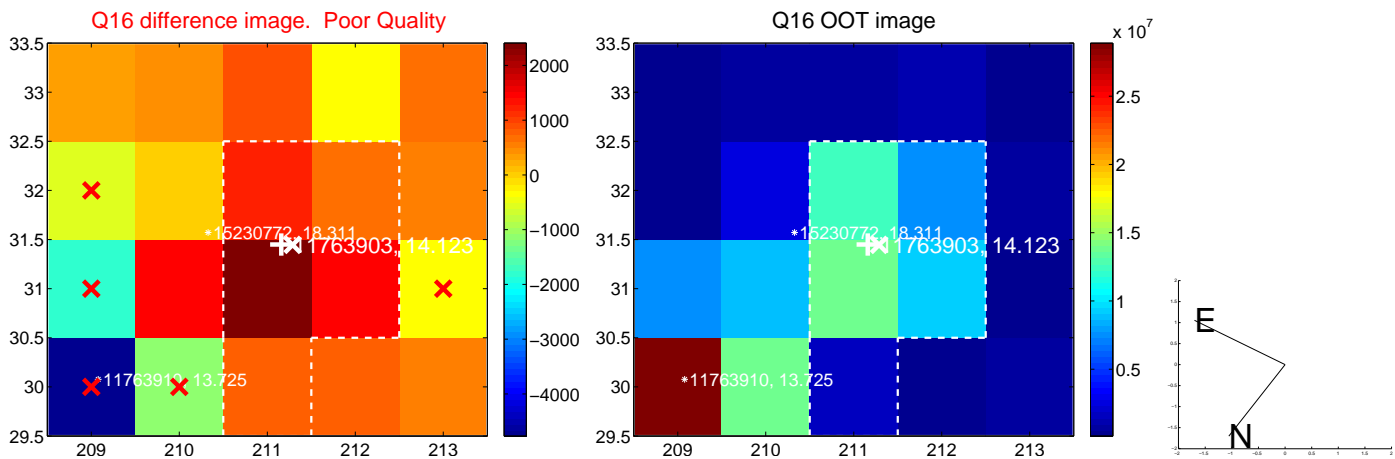
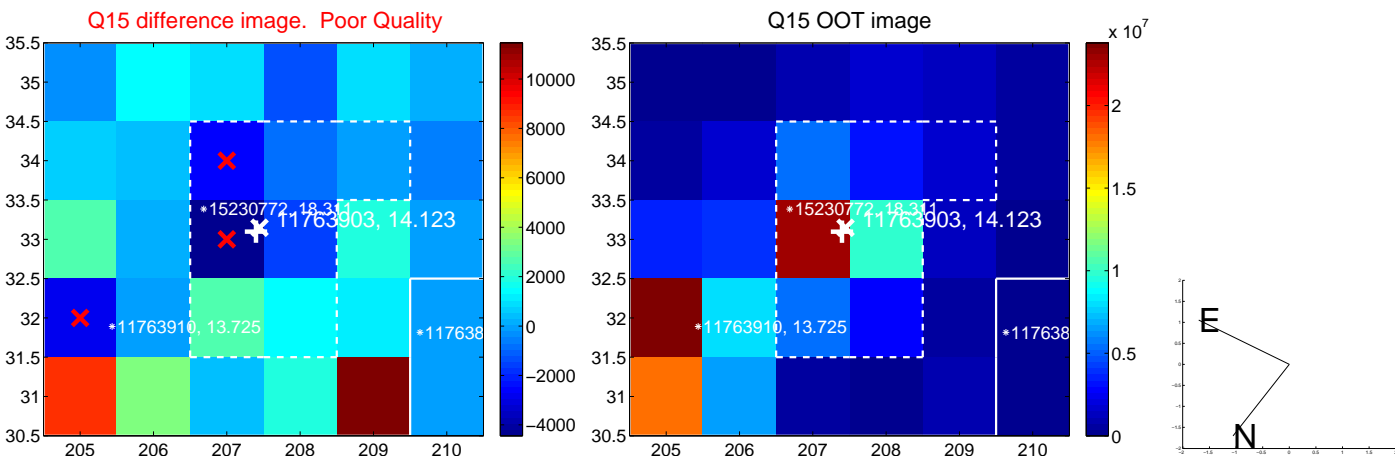
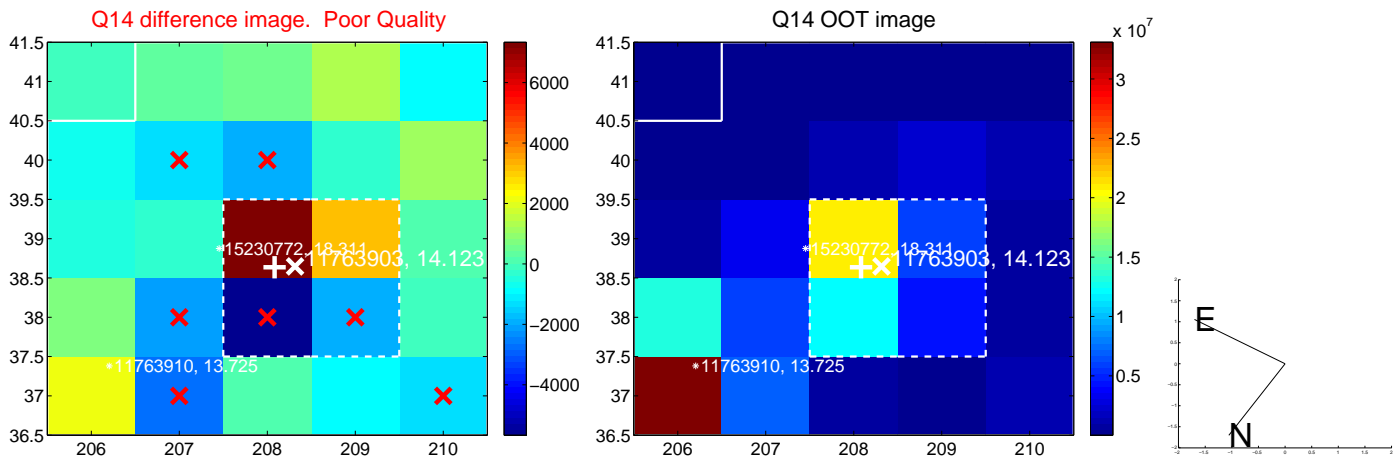
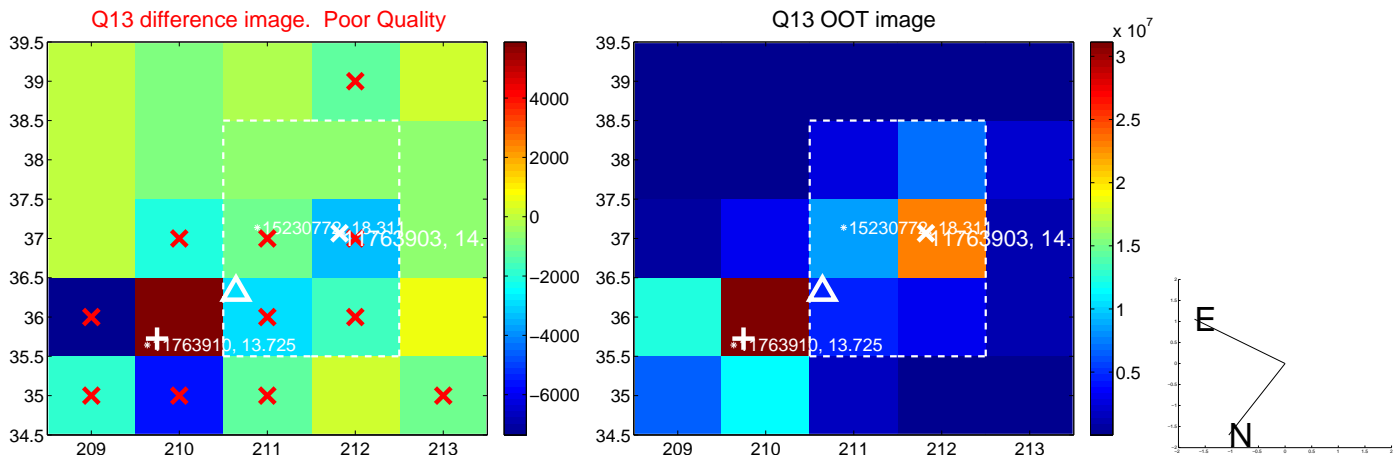
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



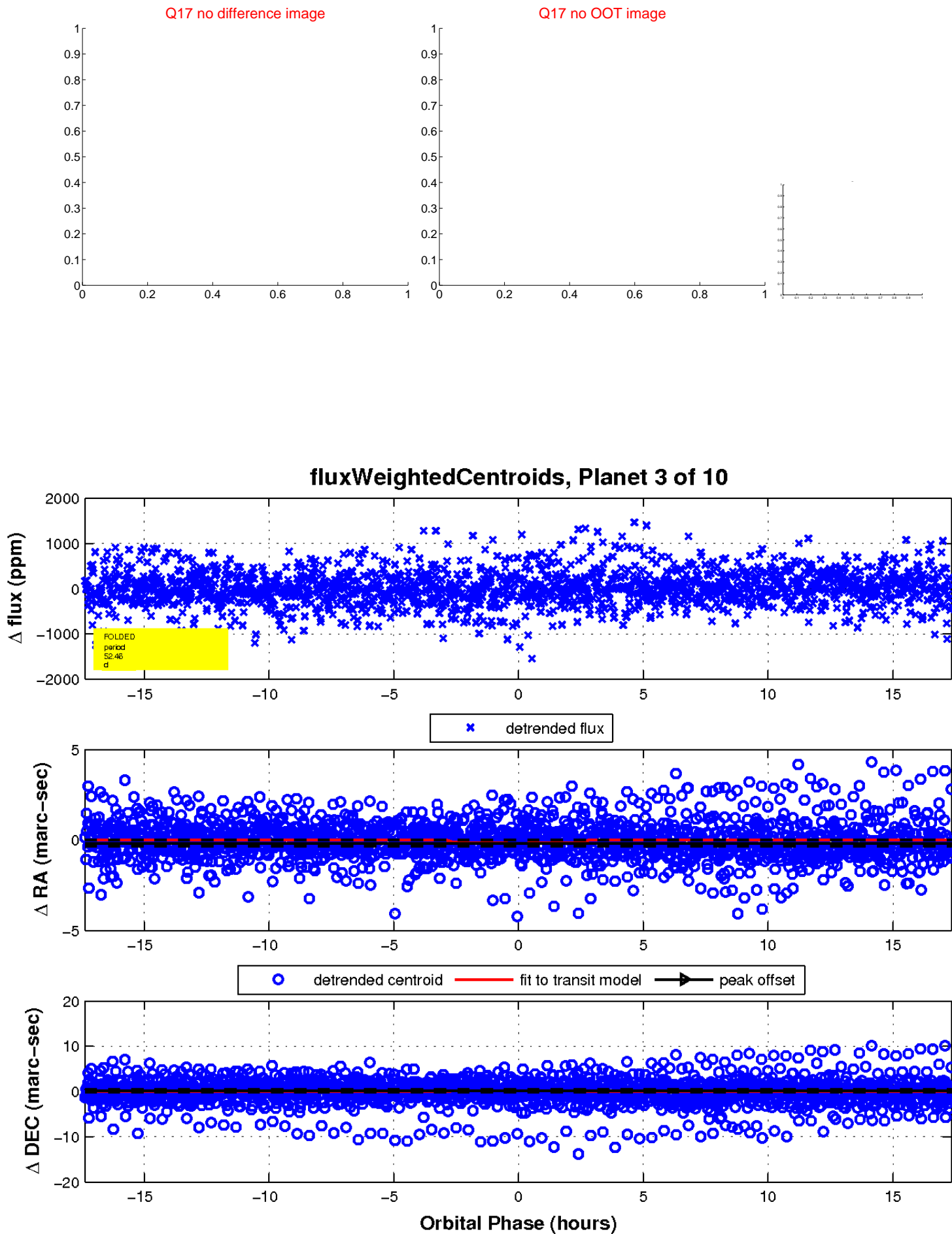
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

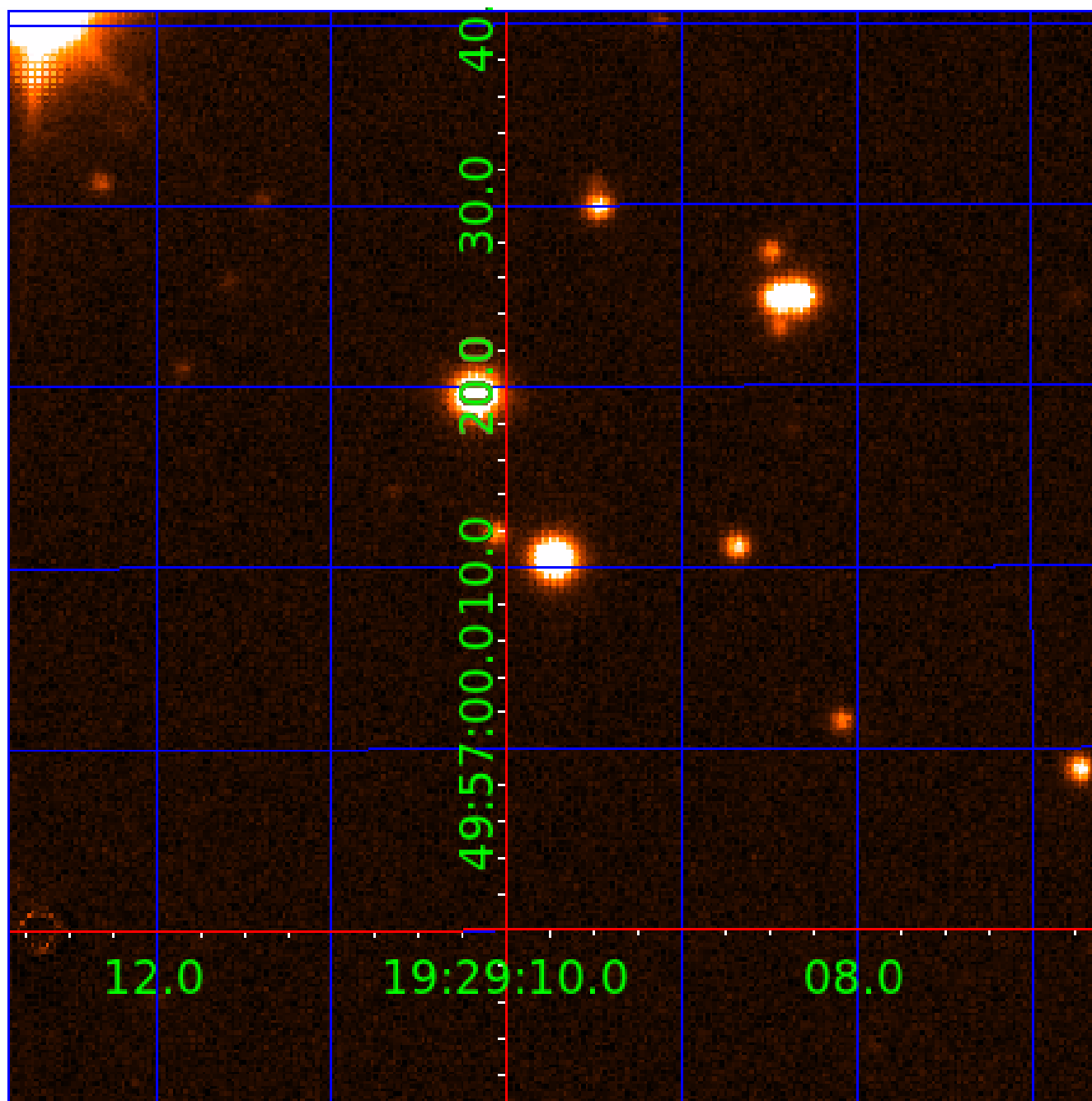


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

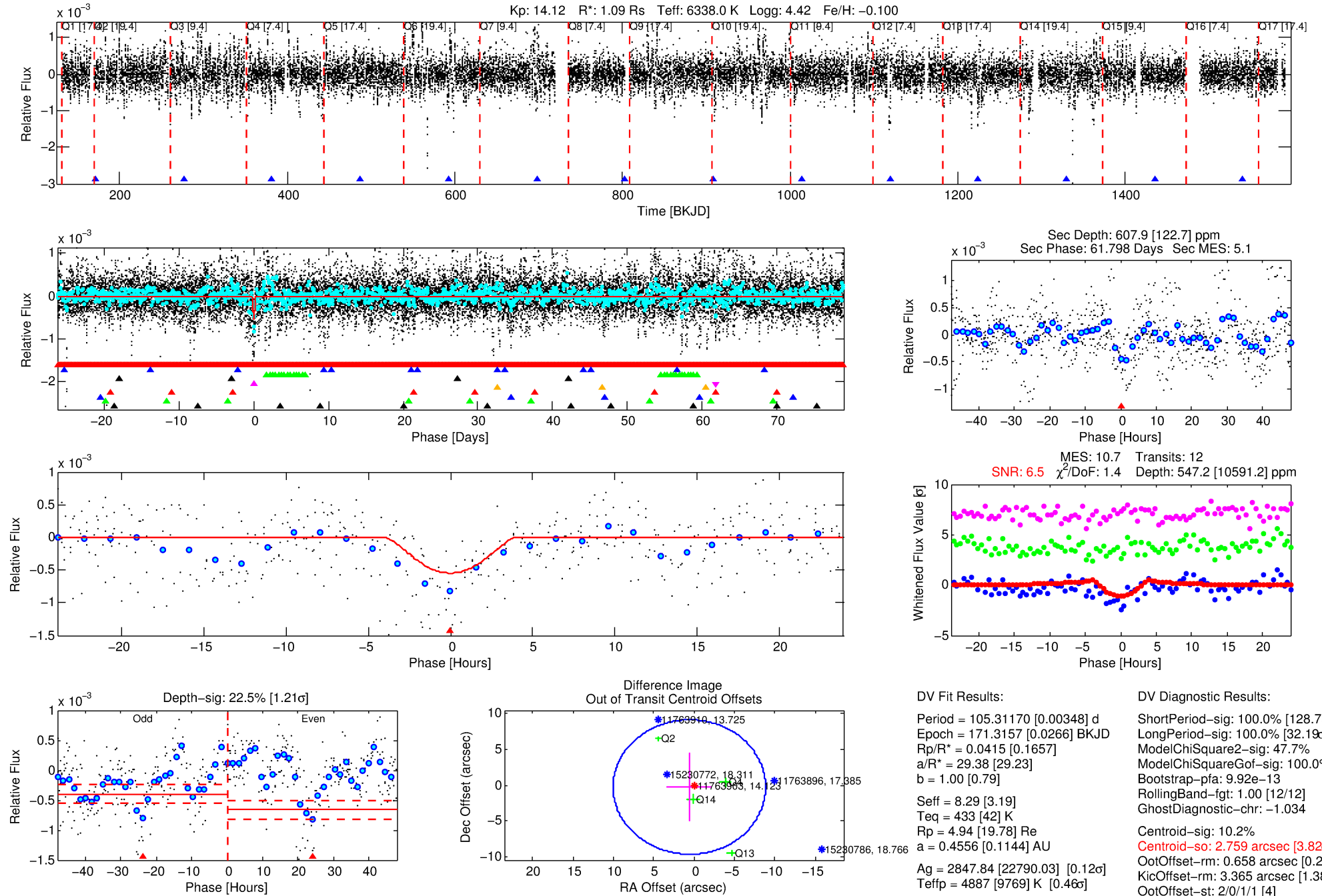
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-05

No Significant Match Found

DV One-Page Summary

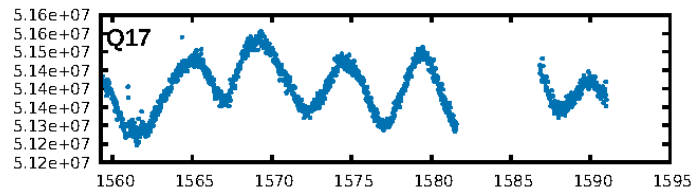
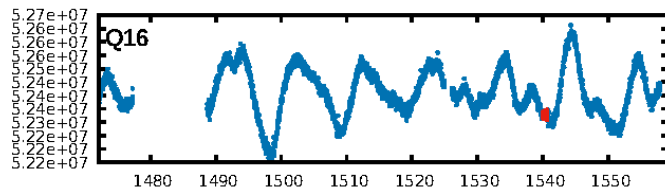
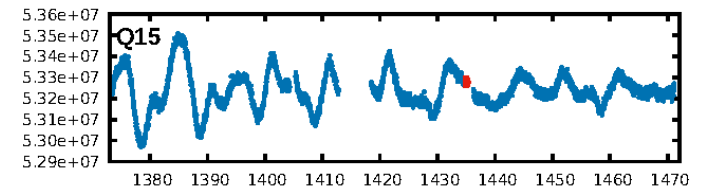
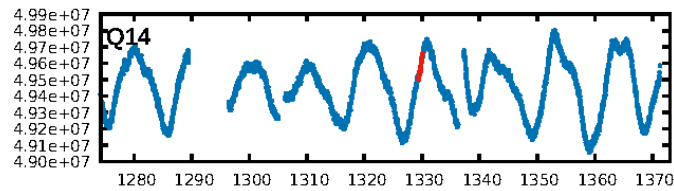
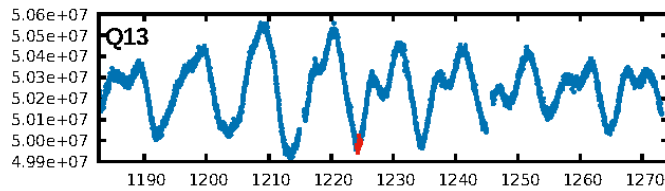
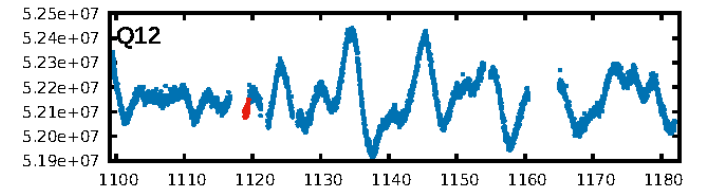
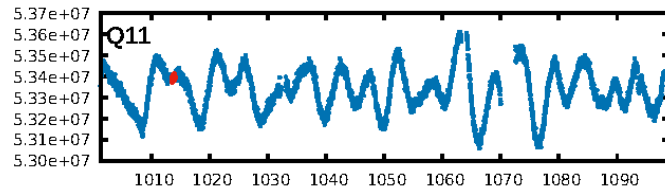
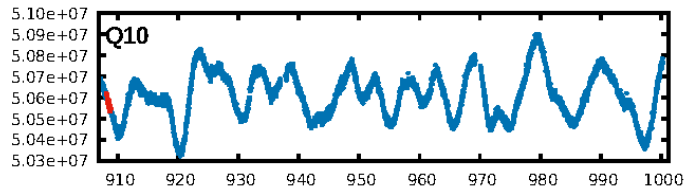
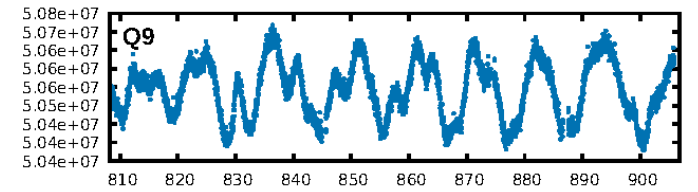
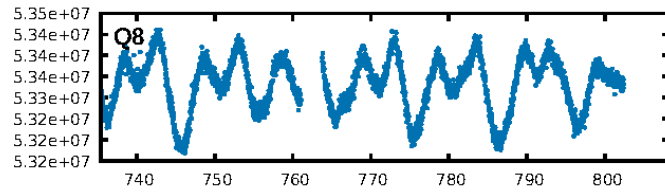
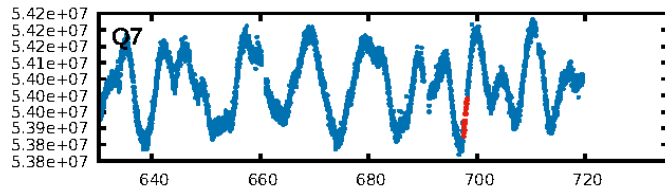
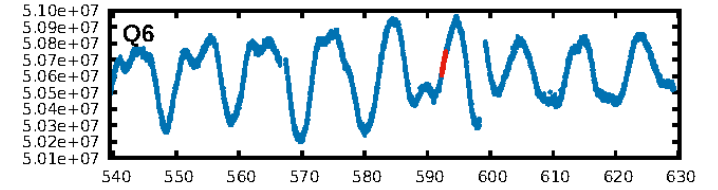
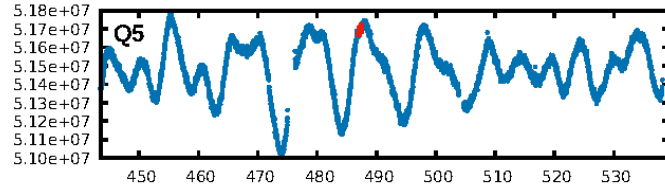
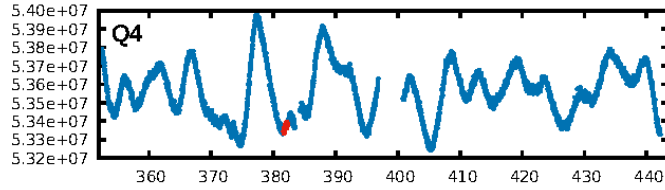
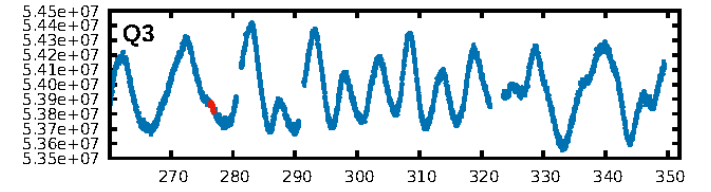
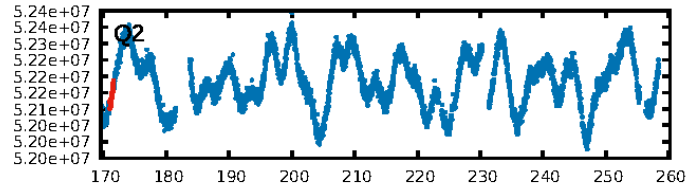
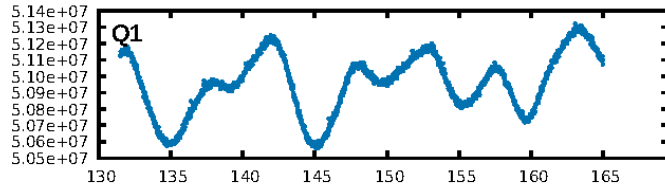
KIC: 11763903 Candidate: 5 of 10 Period: 105.312 d



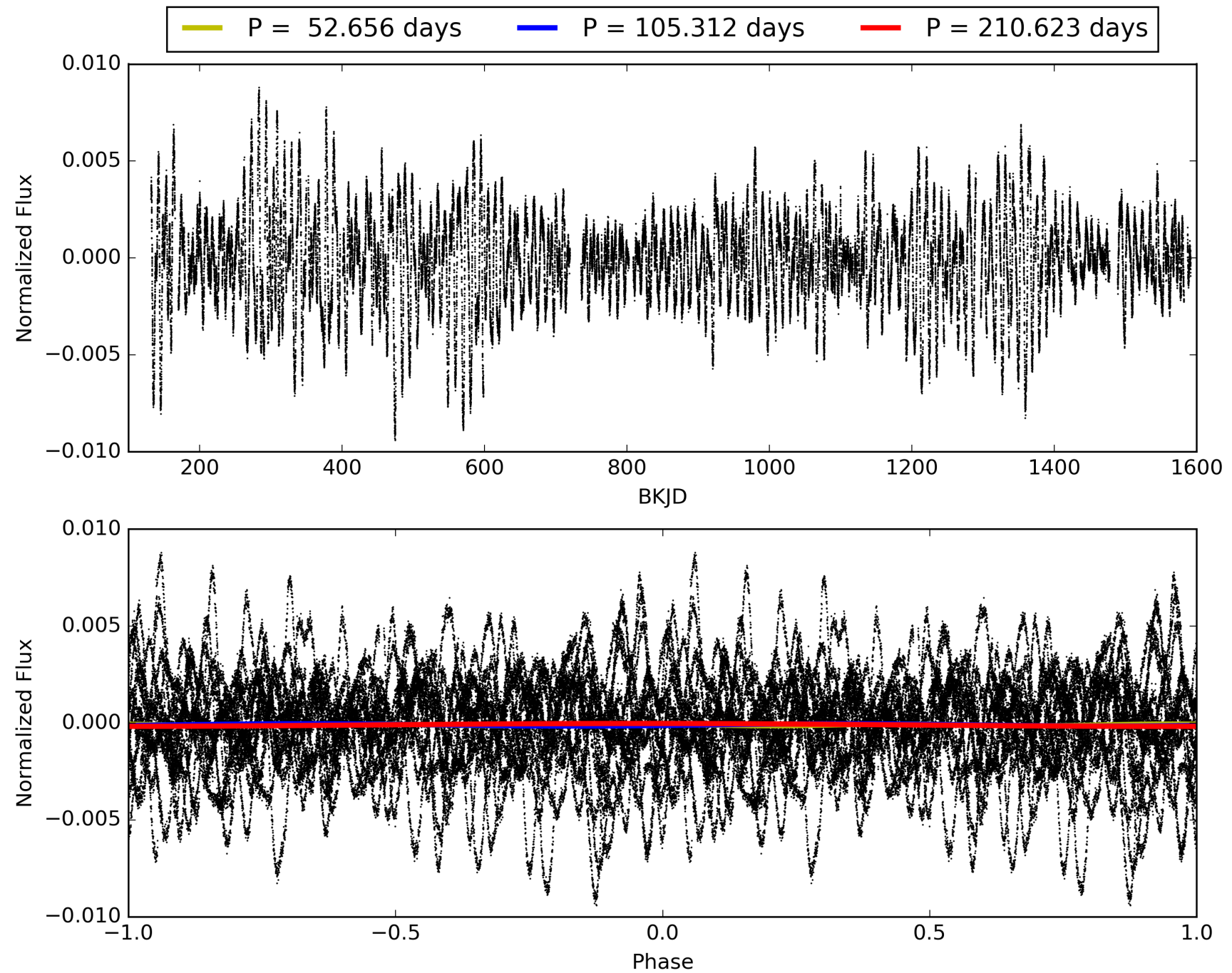
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:05:22 Z

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

TCE 011763903-05, PDC Light Curves

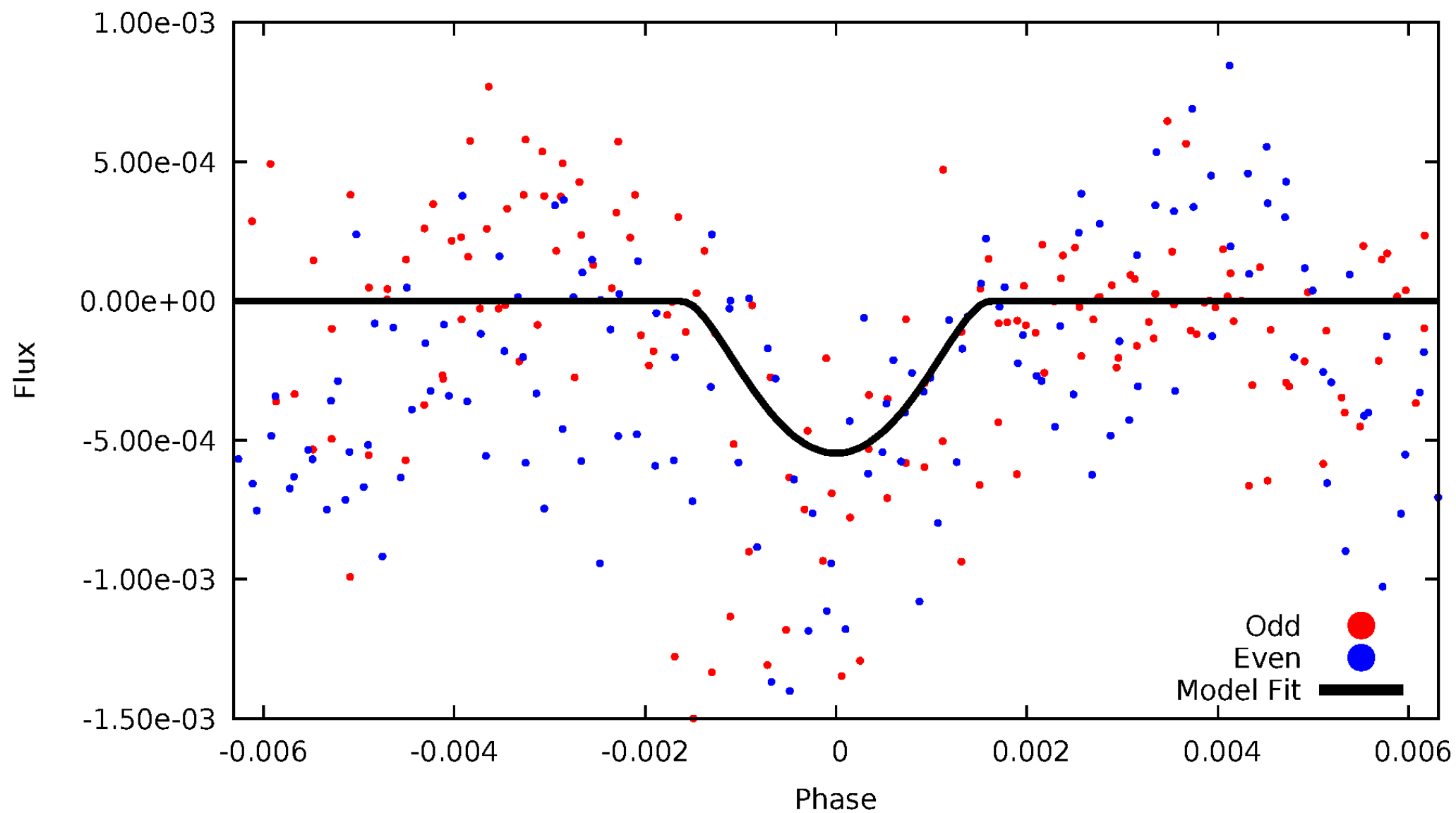


TCE 011763903-05



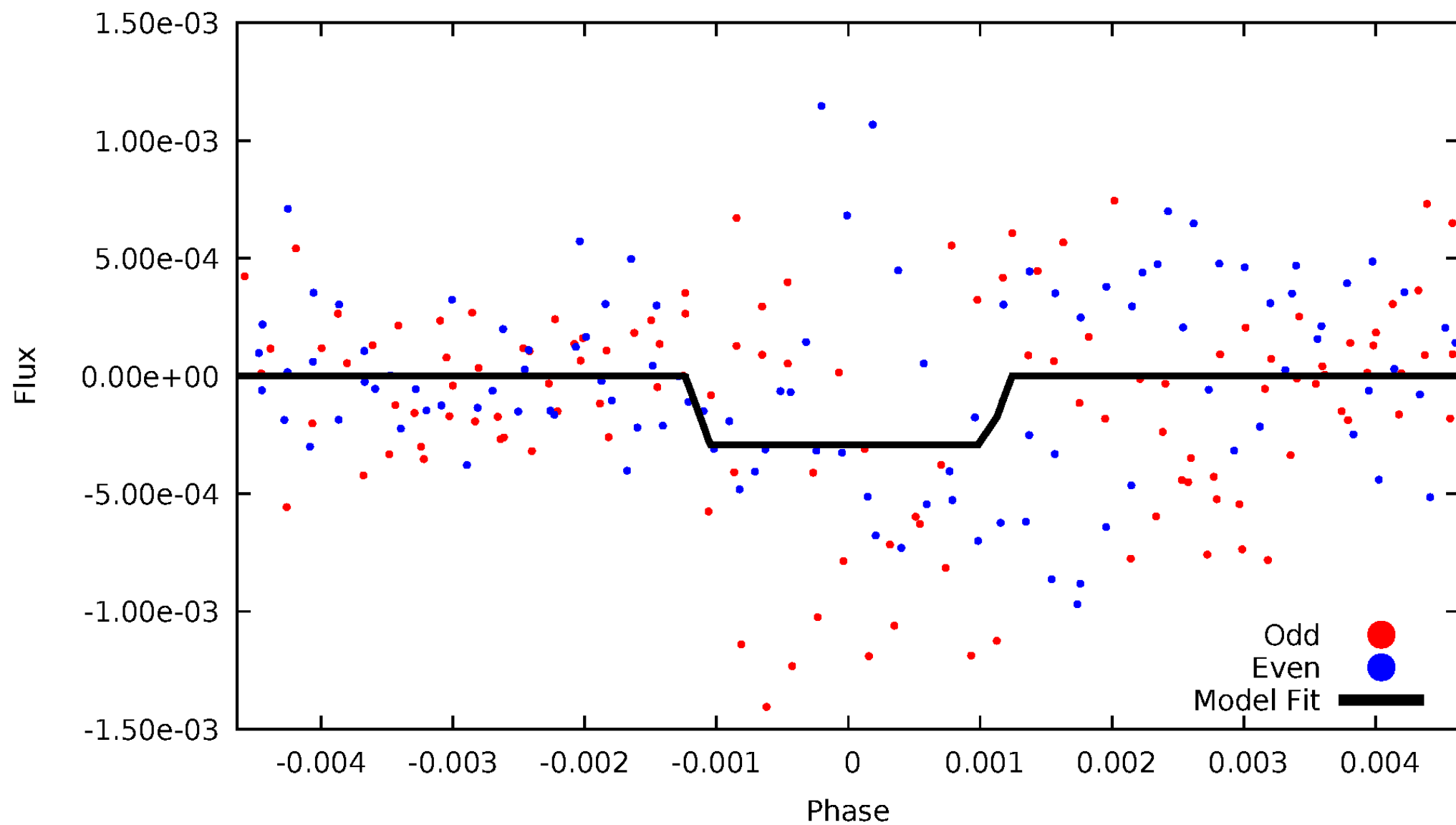
DV Odd/Even

TCE 011763903-05



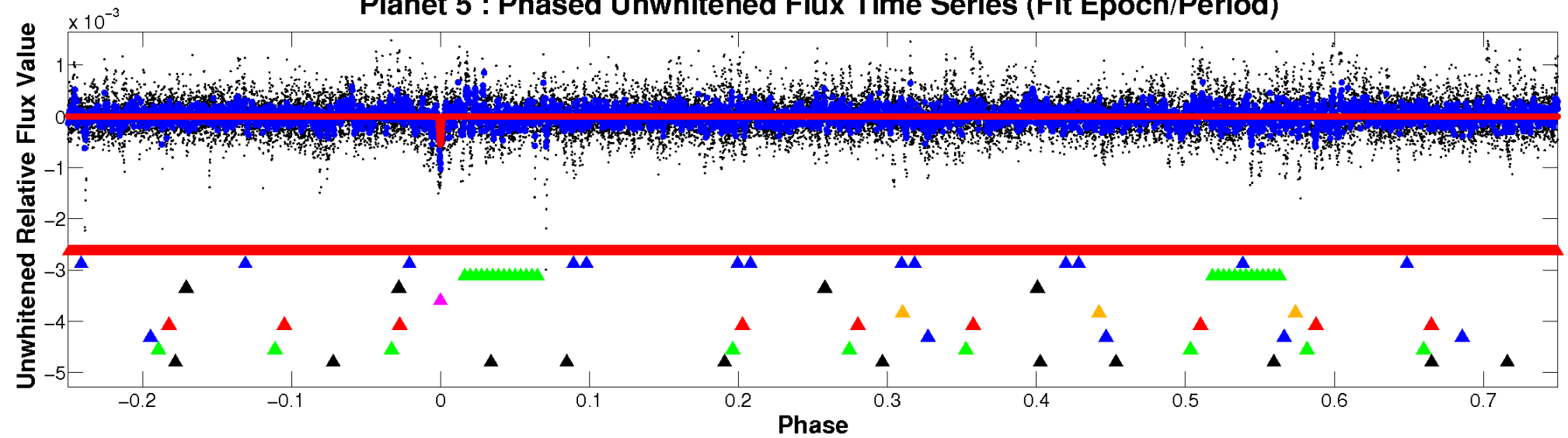
ALT Odd/Even

TCE 011763903-05

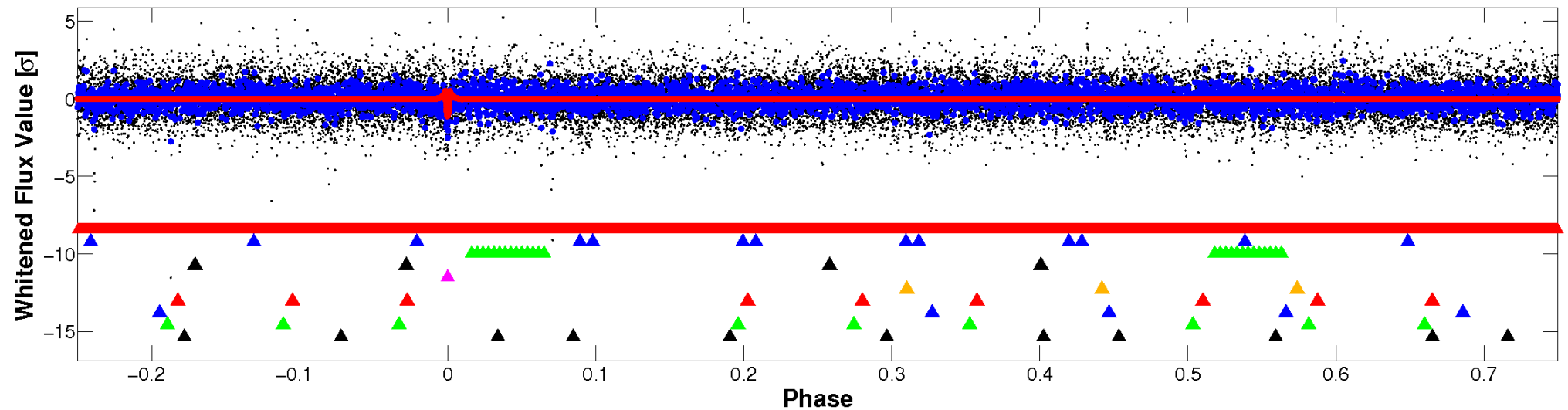


Non-Whitened Vs. Whitened Light Curve

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

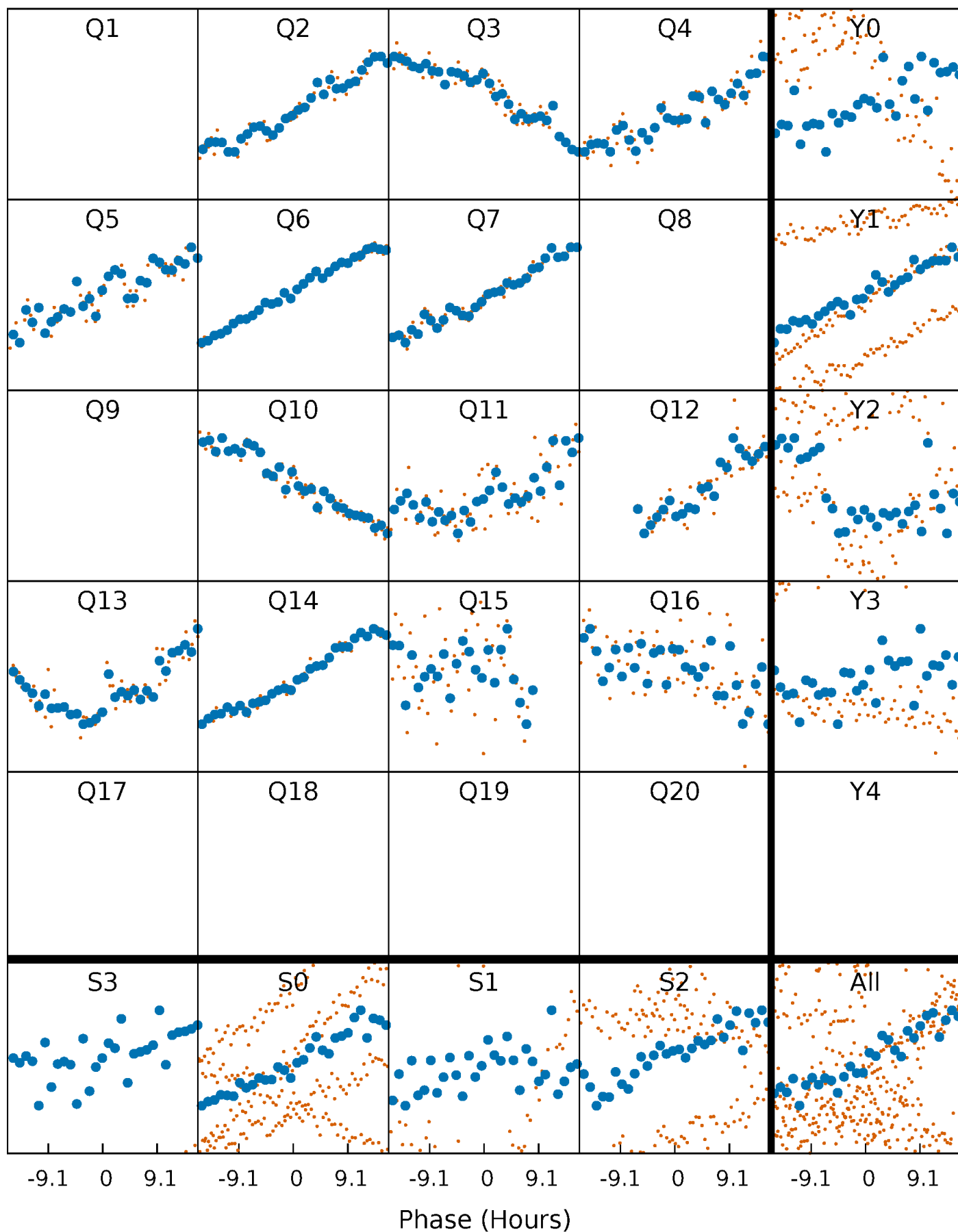


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



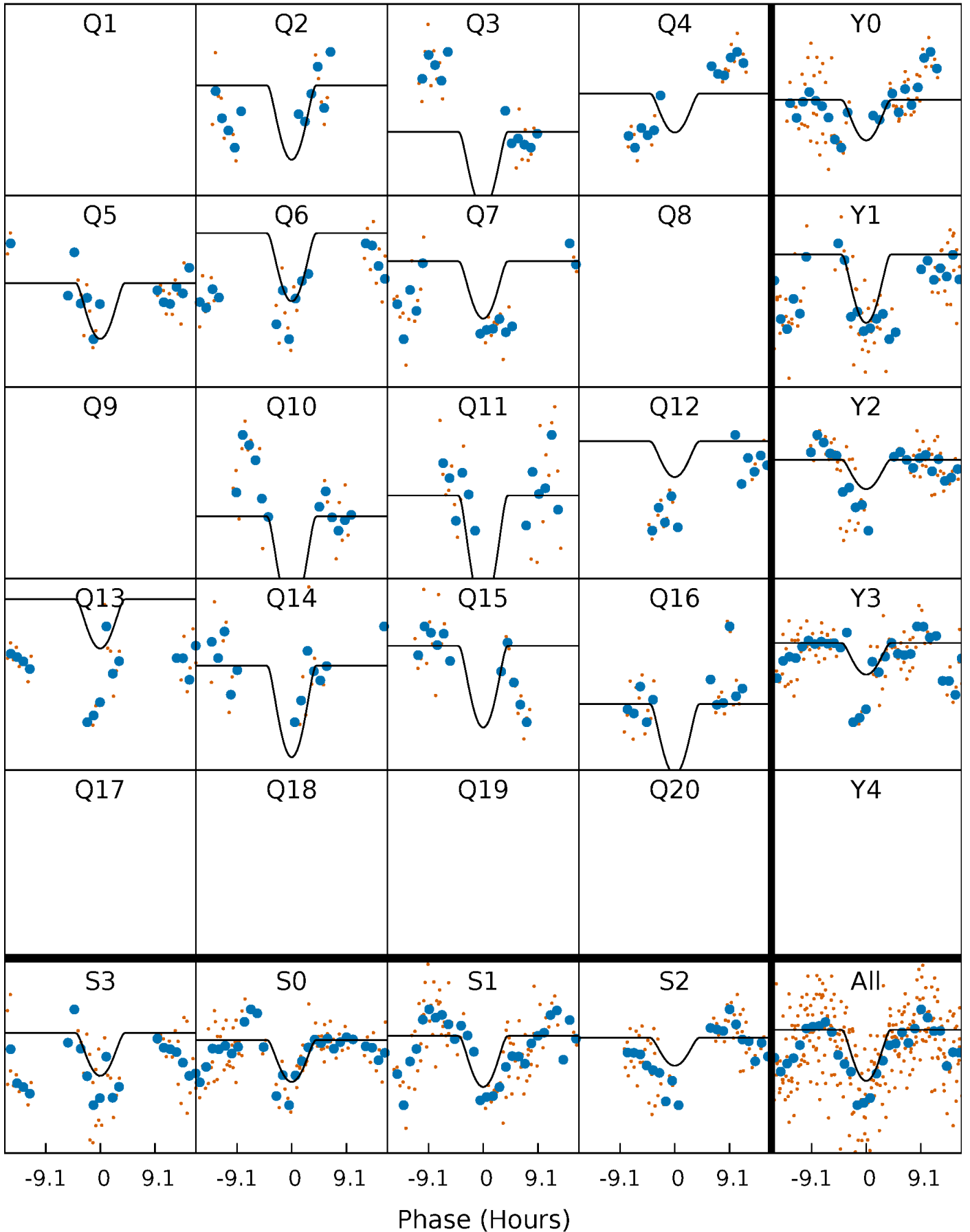
PDC Quarter-Phased Transit Curves

TCE 011763903-05 $P=105.311702$ Days $T_0=171.315681$ (BKJD)



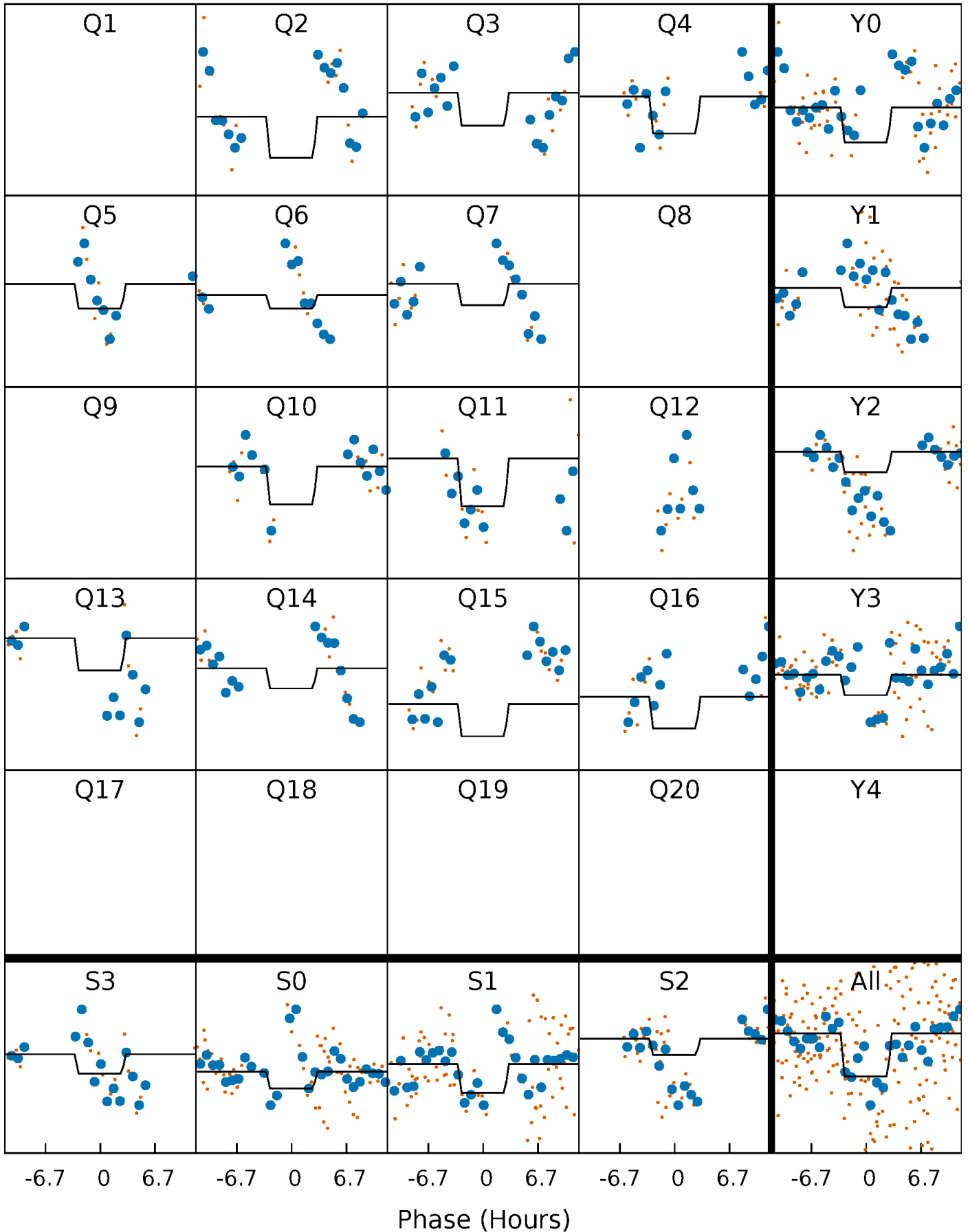
DV Quarter-Phased Transit Curves

TCE 011763903-05 P=105.311702 Days $T_0=171.315681$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

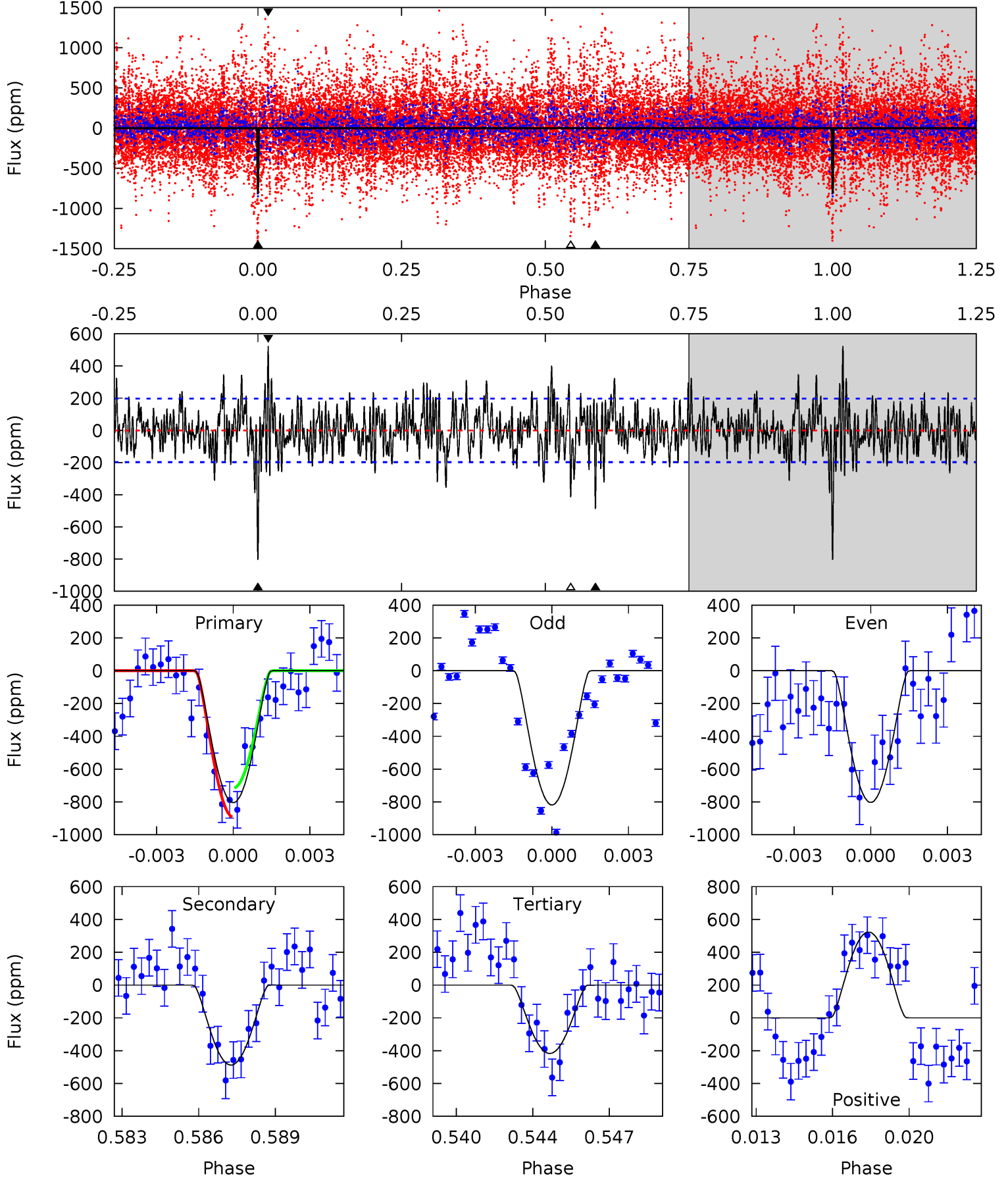
TCE 011763903-05 $P=105.310530$ Days $T_0=171.234207$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-05, P = 105.311702 Days, E = 66.003979 Days

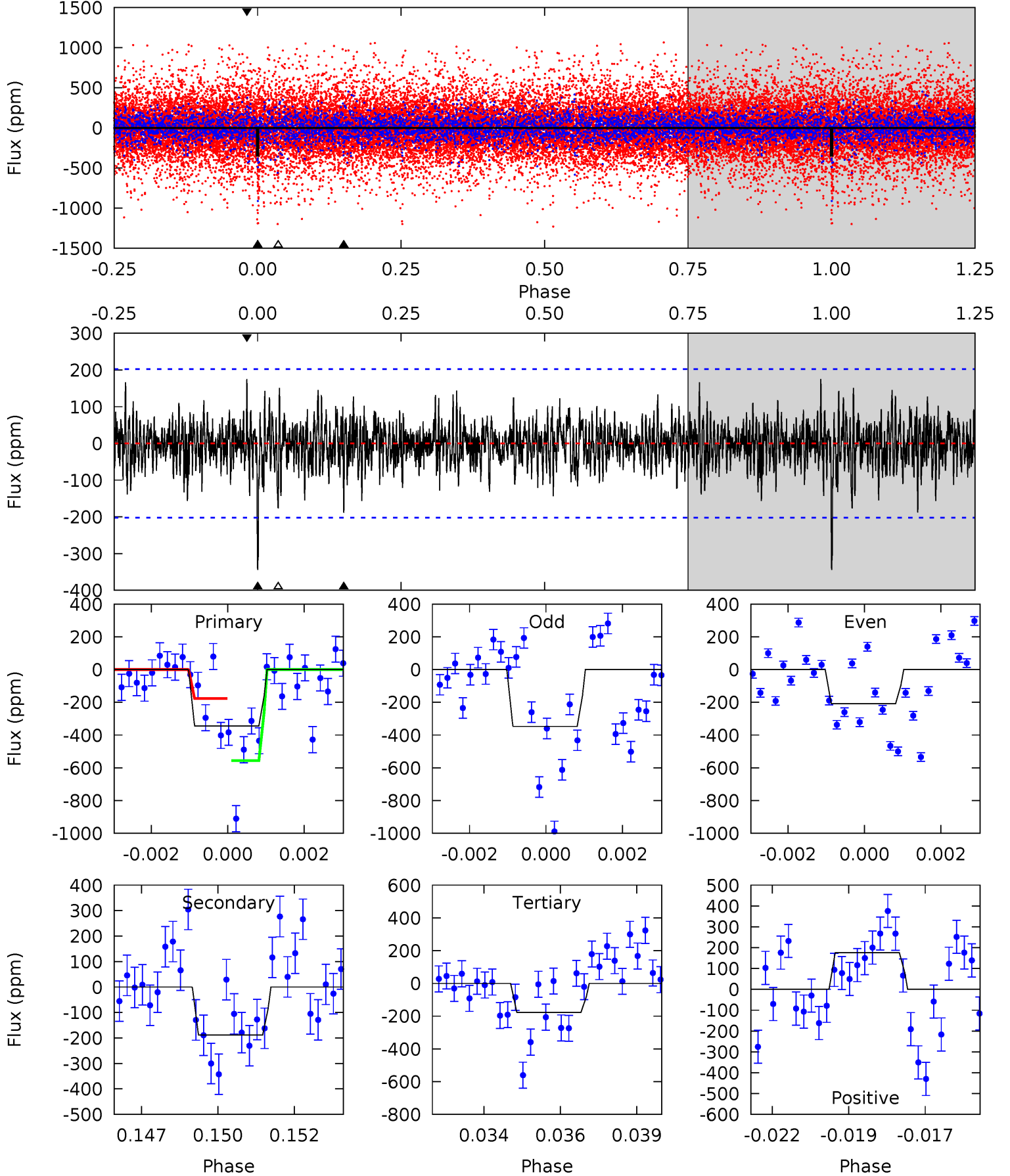
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.3	12.9	11.1	13.9	5.24	2.94	3.04	10.3	7.46	1.88	-0.94	0.20	0.85	0.39	2.35



Alt Model-Shift Uniqueness Test

011763903-05, $P = 105.310530$ Days, $E = 65.923677$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.01	4.93	4.62	4.59	5.29	3.03	1.22	4.39	4.42	0.31	0.34	1.83	1.34	0.34	4.95



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-487 ± 38	$15.85^{+16.28}_{-11.29}$	617^{+43}_{-32}	3261^{+1675}_{-614}	223^{+2379}_{-170}
Alt.	-188 ± 38	$15.31^{+15.66}_{-10.97}$	613^{+41}_{-31}	2802^{+1391}_{-447}	83^{+1007}_{-62}

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 $A_{obs} \gg 1.0$

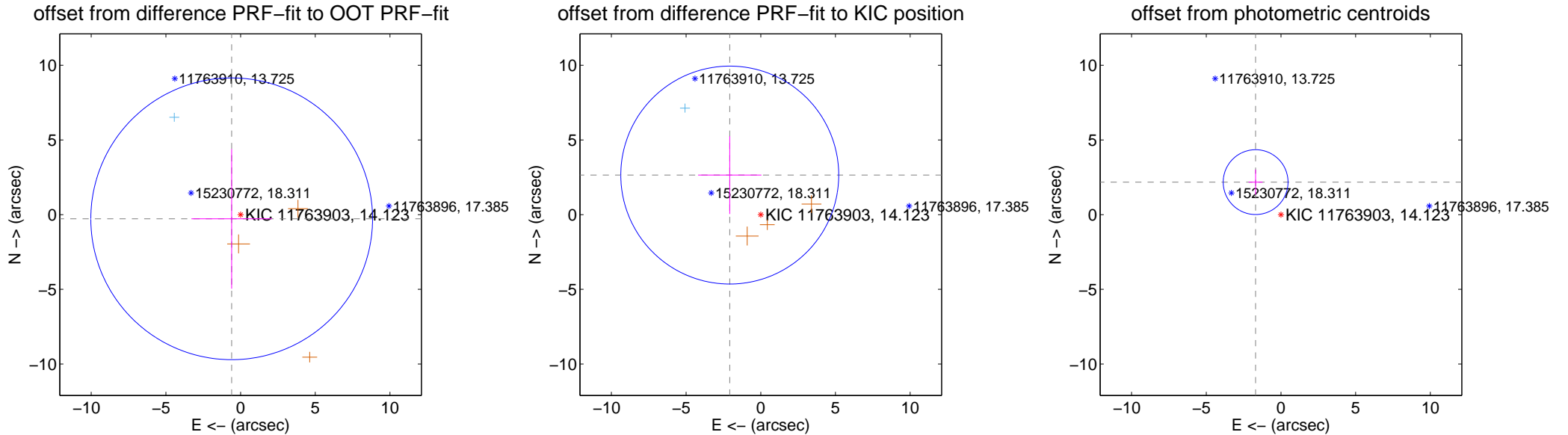
DV Centroid Data

Supplemental centroid analysis for 011763903-05. Kepler magnitude: 14.12. Transit SNR 6.46

There are 1 quarters with good PRF difference image offsets

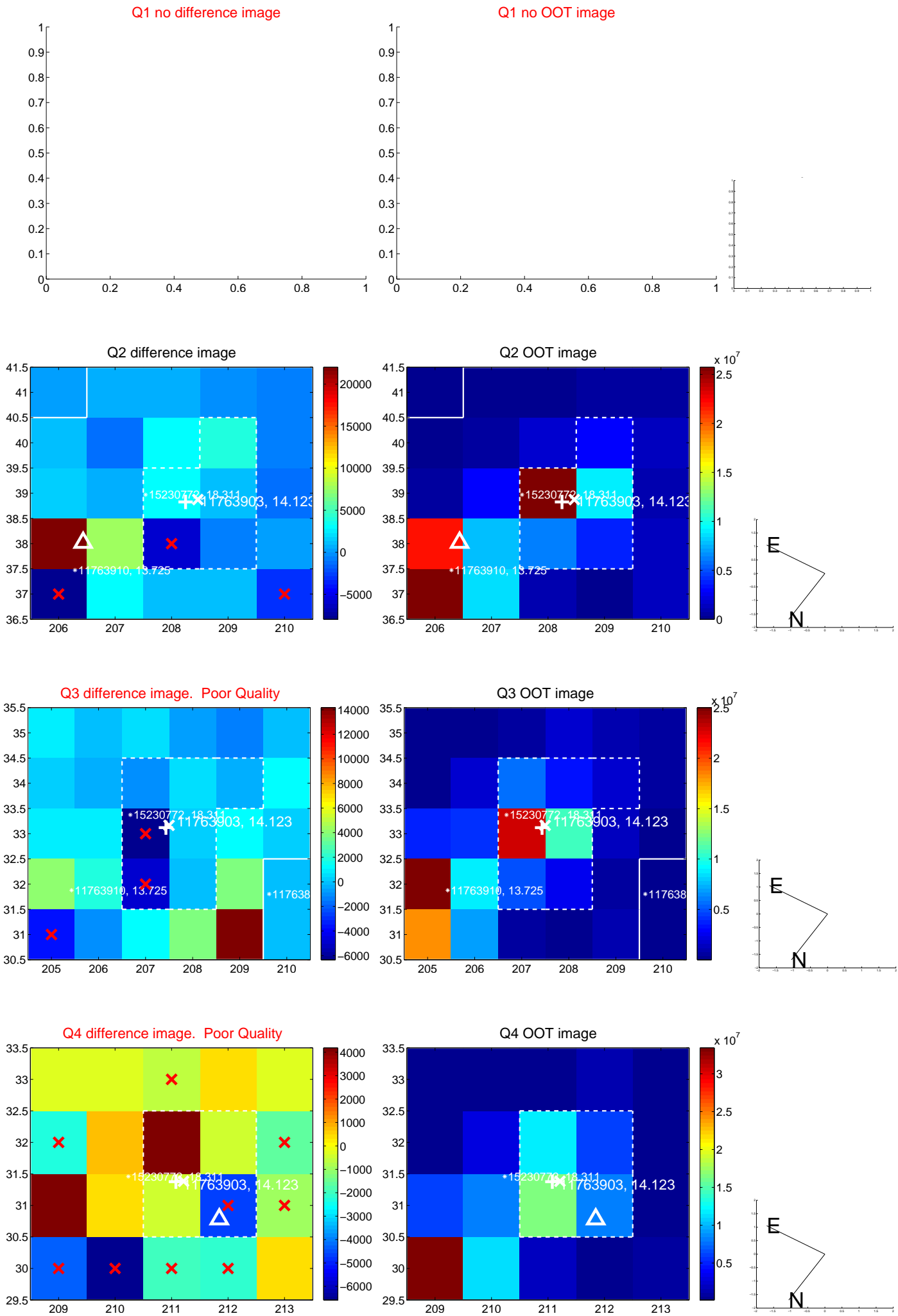
The direct PRF centroid is offset from the target star catalog position by about 0.93 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.658 ± 3.143	0.21	0.596 ± 2.693	-0.279 ± 4.677
PRF-fit source offset from KIC position	3.365 ± 2.431	1.38	2.076 ± 2.121	2.648 ± 2.603
photometric centroid source offset	2.76 ± 0.72	3.82	1.70 ± 0.47	2.18 ± 0.84

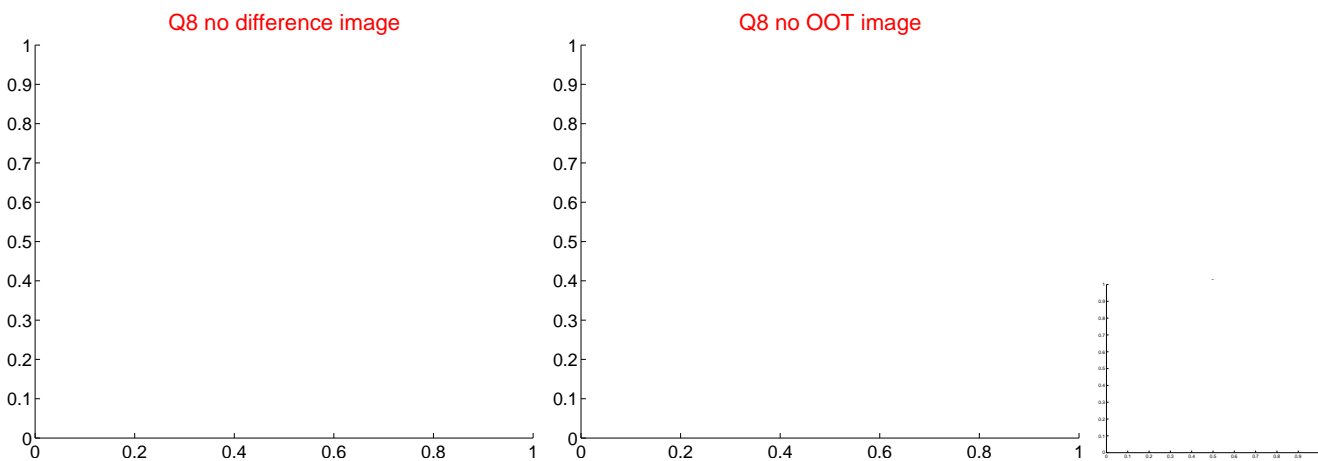
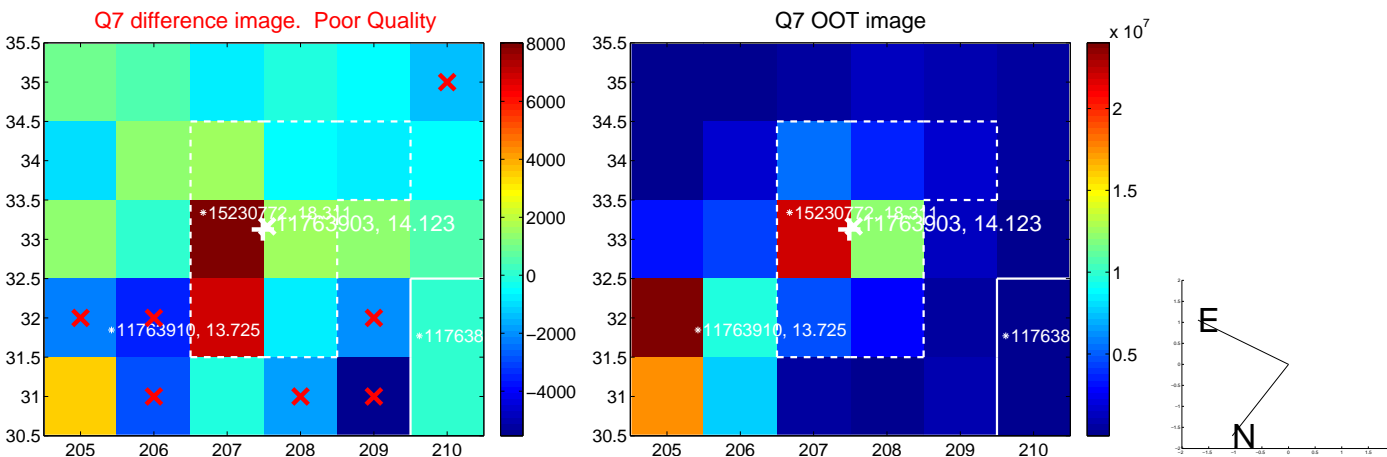
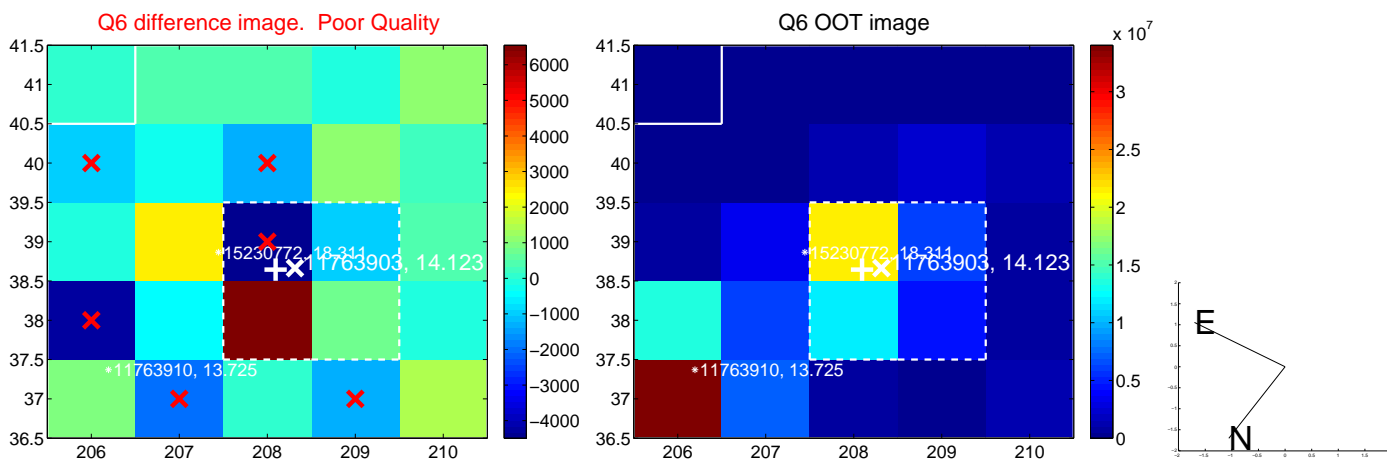
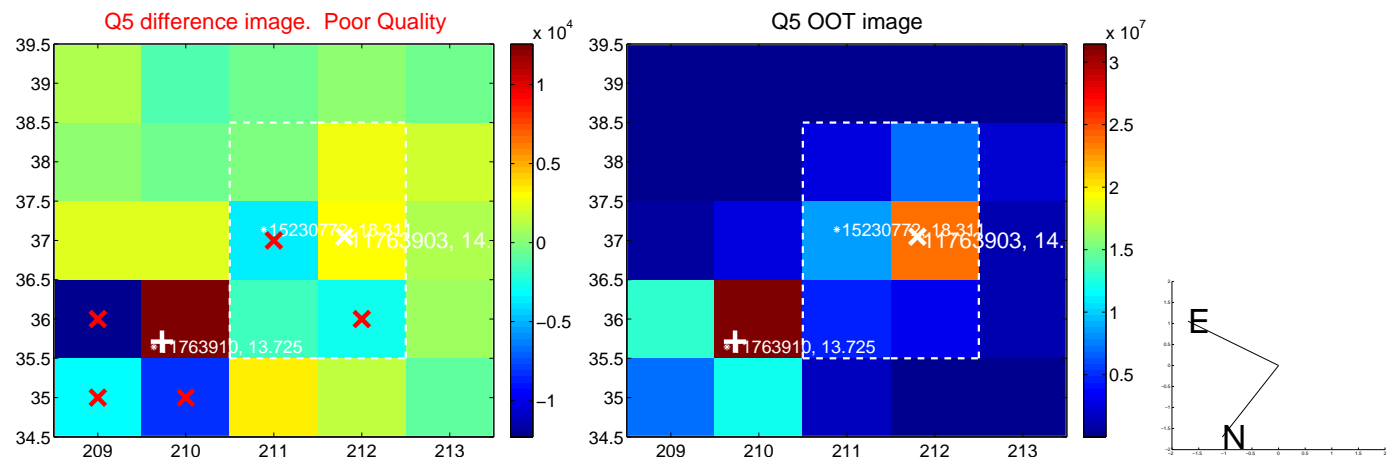


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

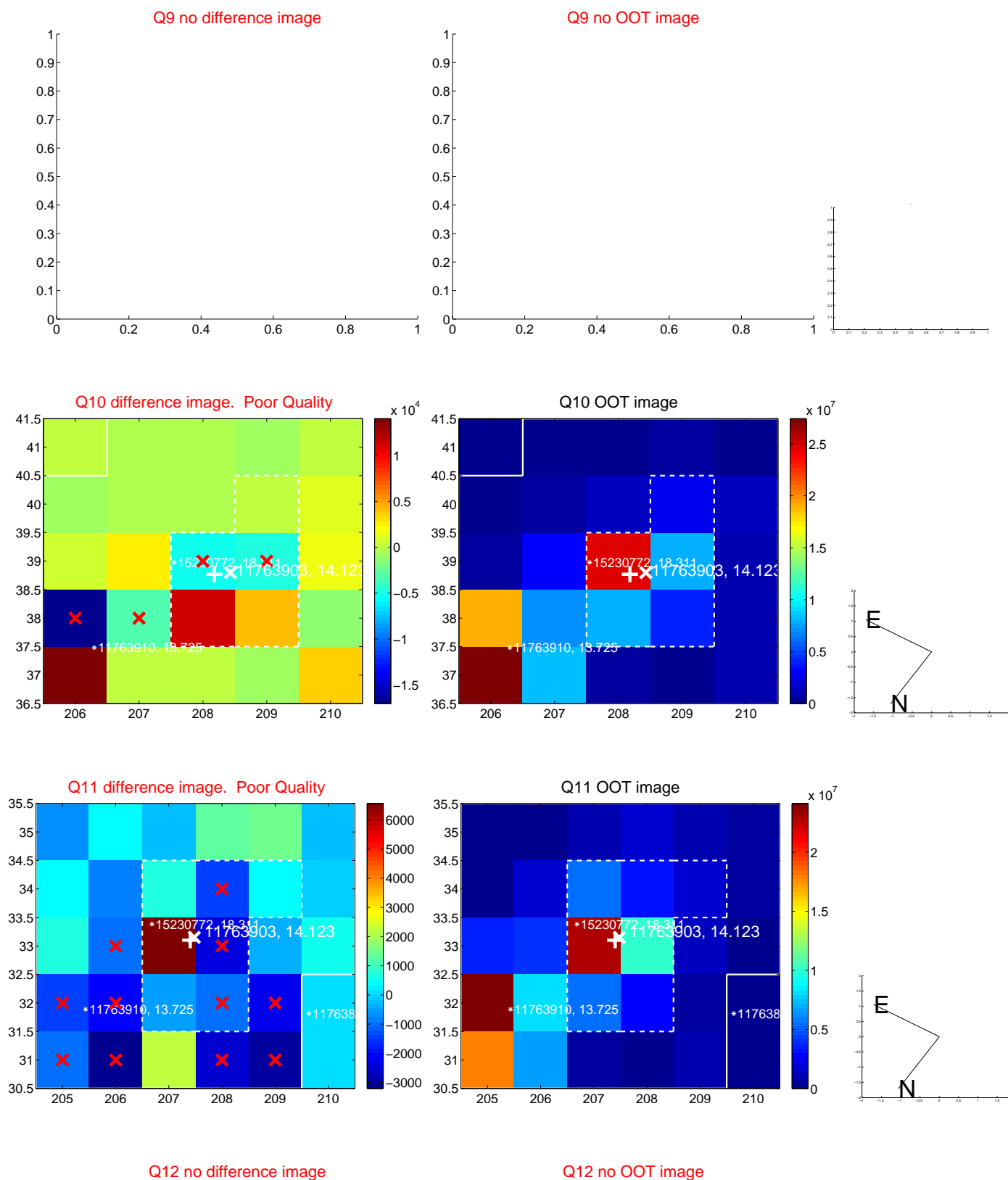
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



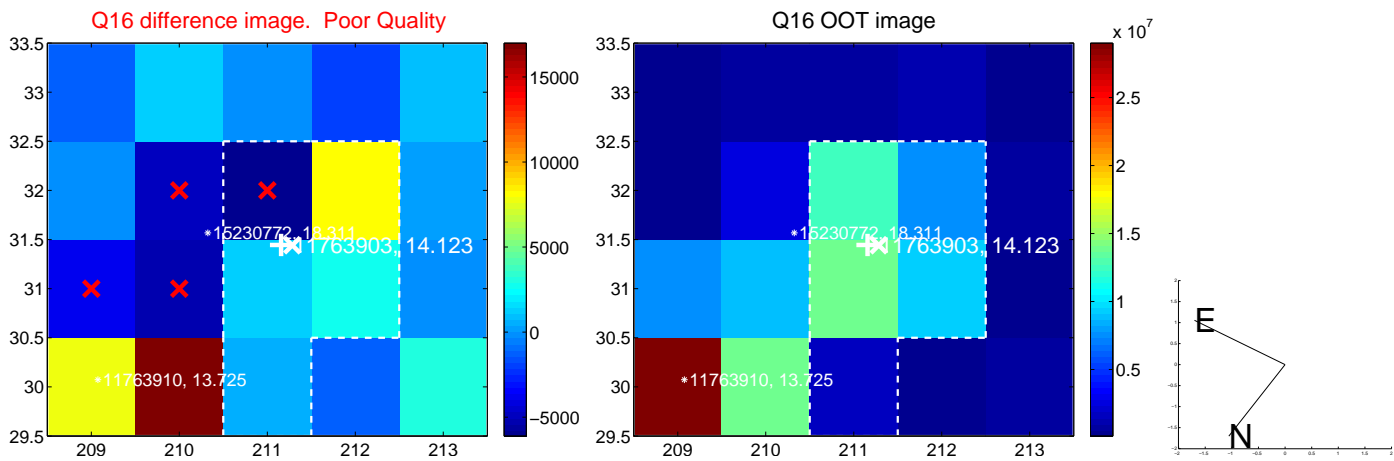
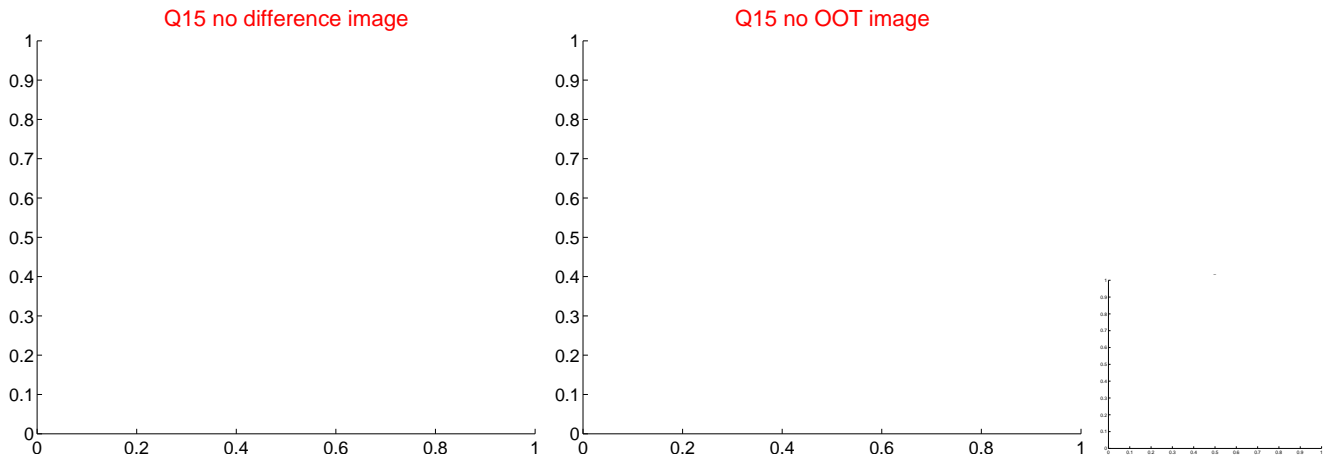
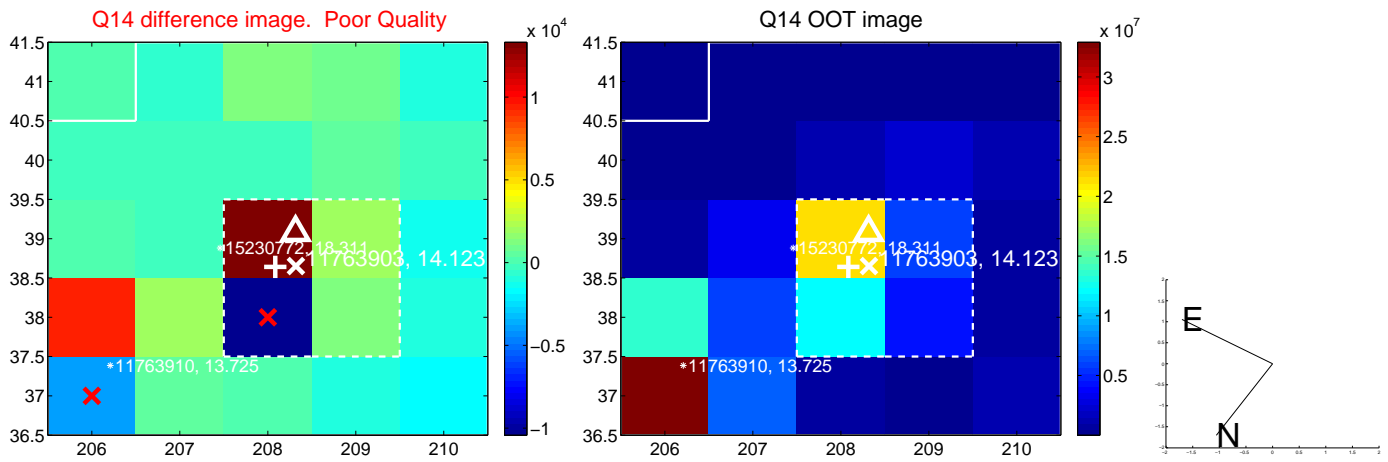
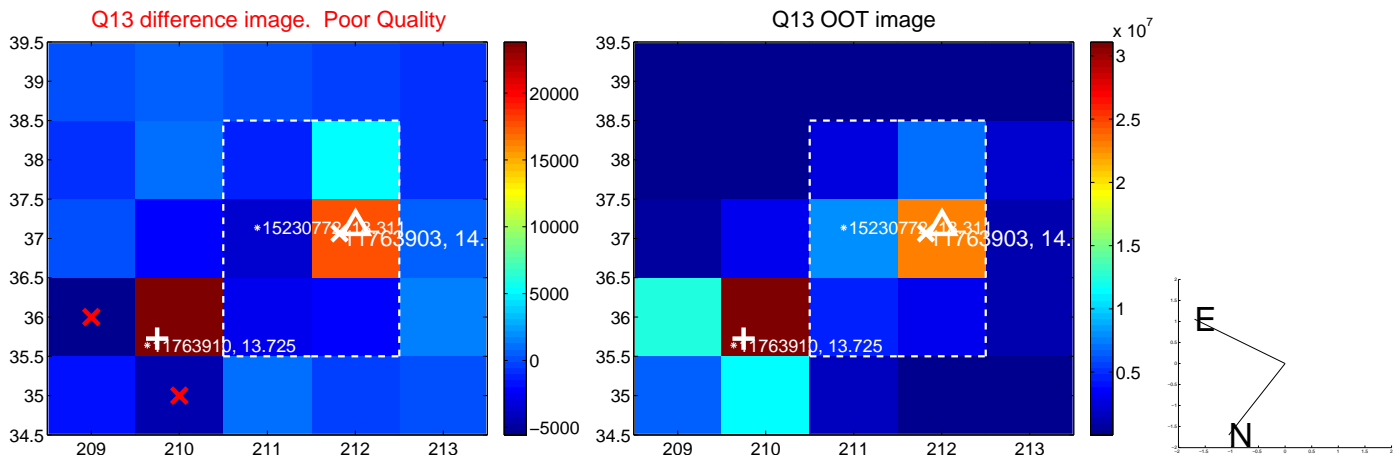
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



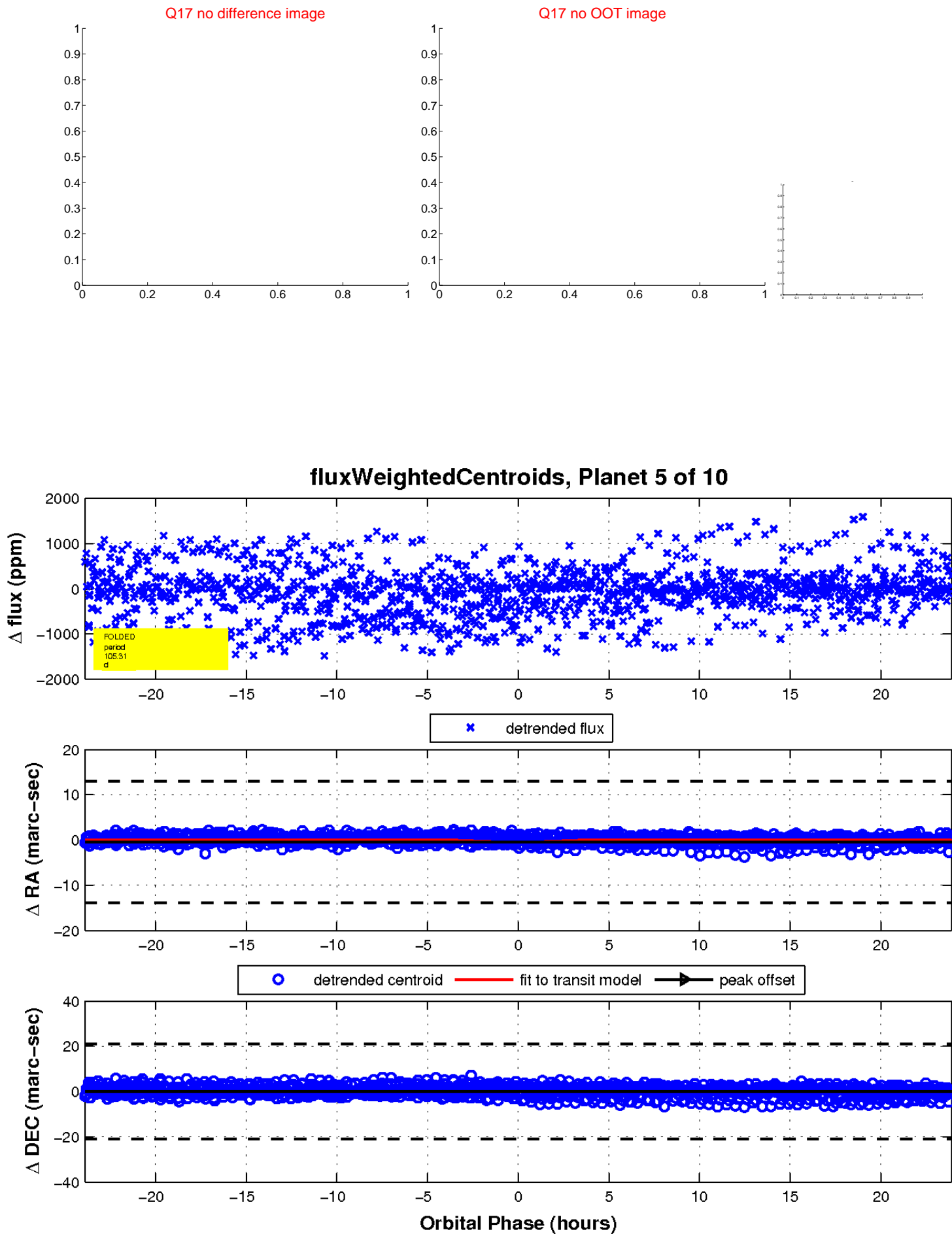
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

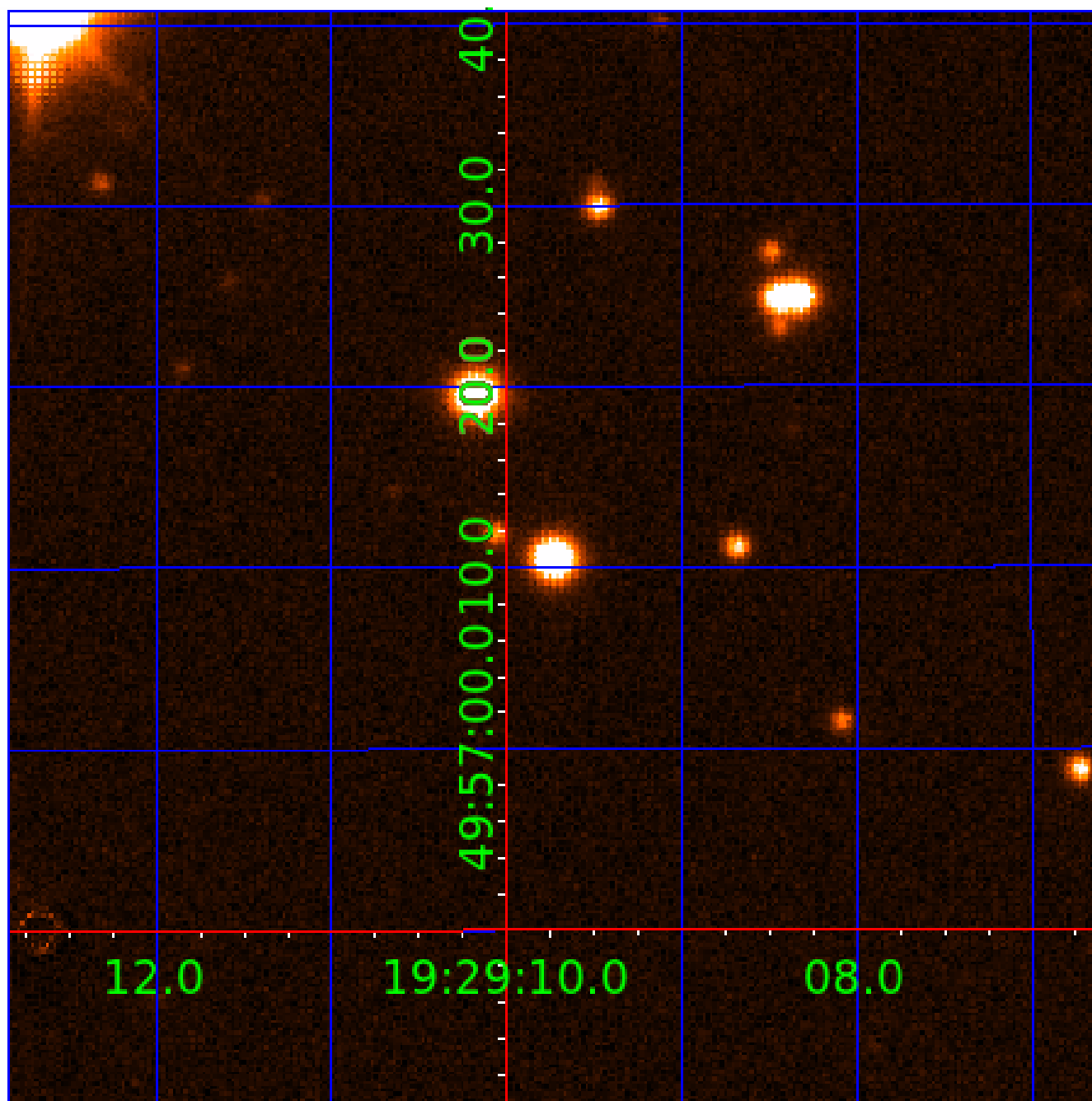


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

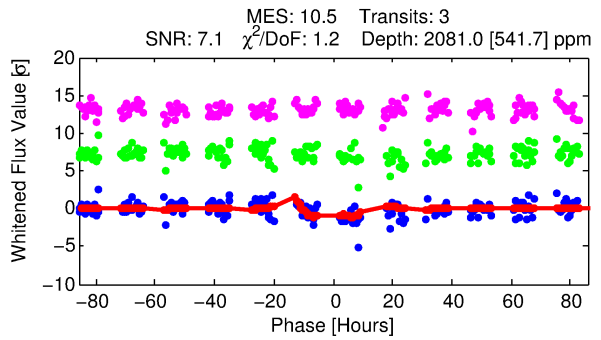
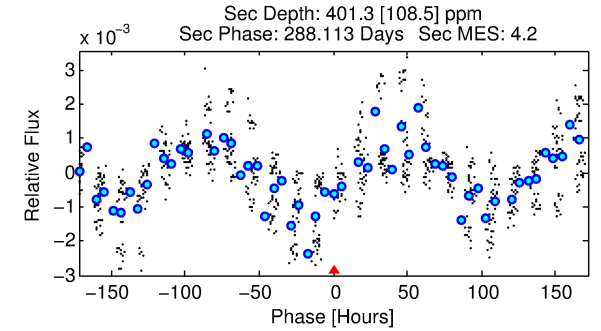
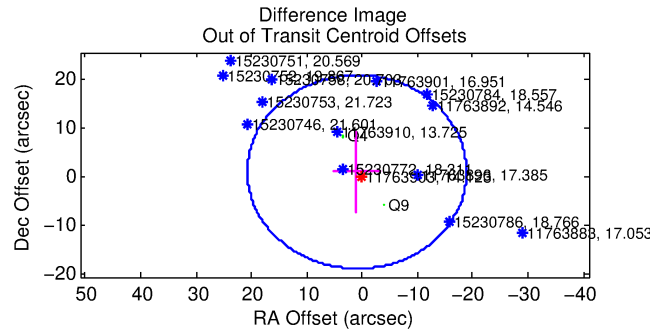
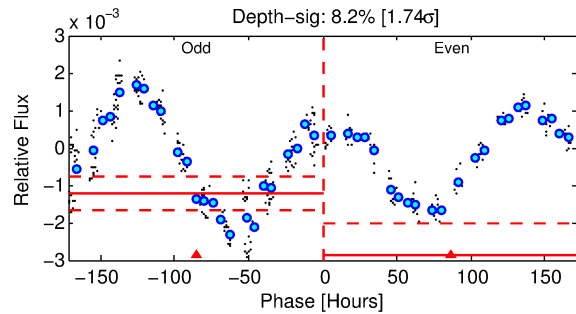
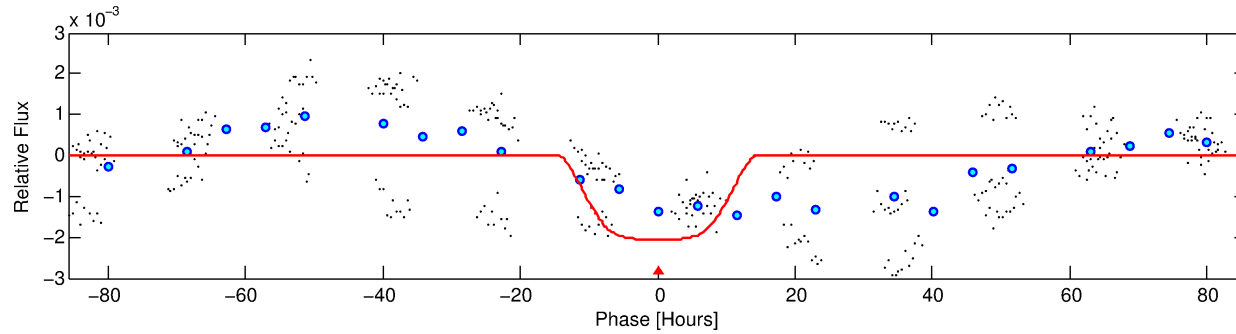
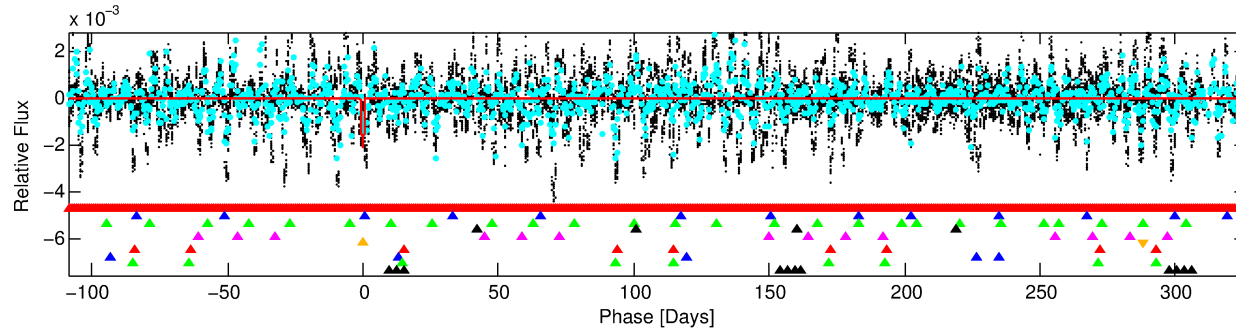
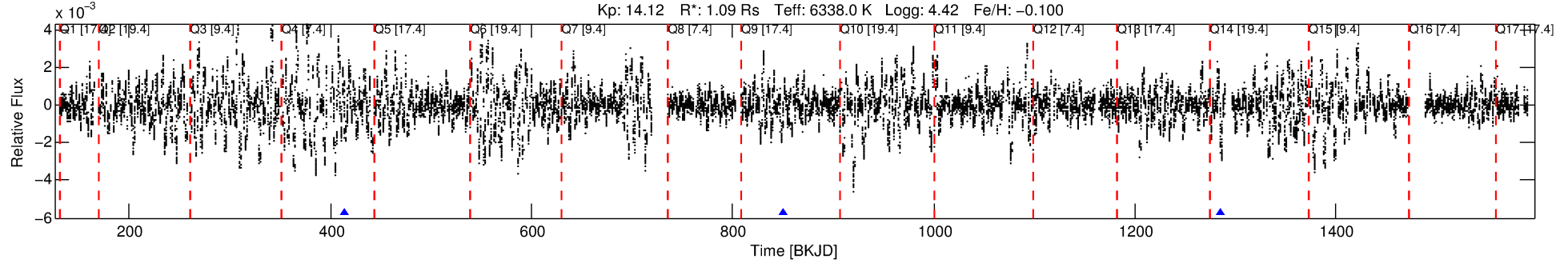
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-06

No Significant Match Found

DV One-Page Summary

KIC: 11763903 Candidate: 6 of 10 Period: 435.132 d



DV Fit Results:

Period = 435.13205 [0.02896] d
Epoch = 414.6092 [0.0471] BKJD
Rp/R* = 0.0503 [0.0069]
a/R* = 58.08 [7.50]
b = 0.92 [0.01]
Seff = 1.25 [0.48]
Teq = 270 [26] K
Rp = 5.99 [1.99] Re
a = 1.1731 [0.2946] AU
Ag = 8474.91 [4466.22] [1.90 σ]
Teffp = 4000 [406] K [9.16 σ]

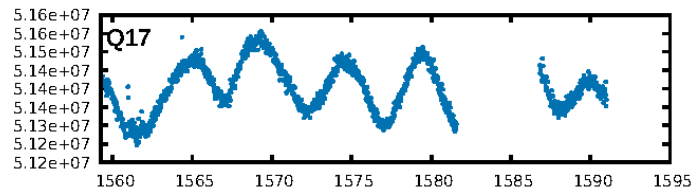
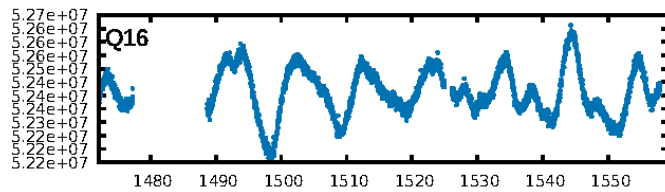
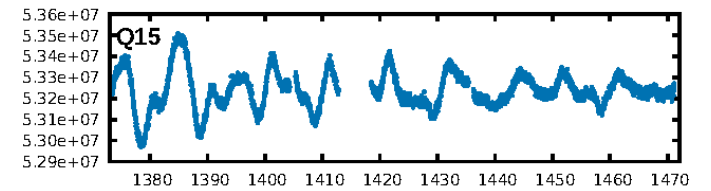
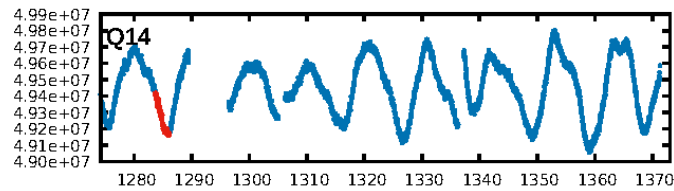
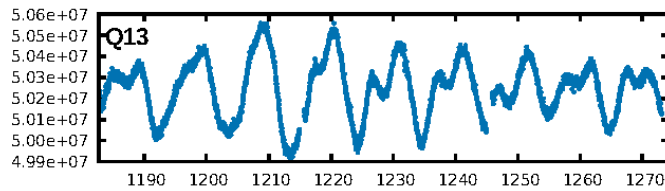
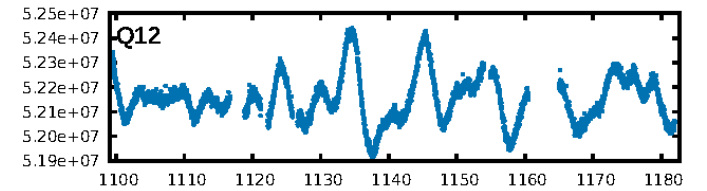
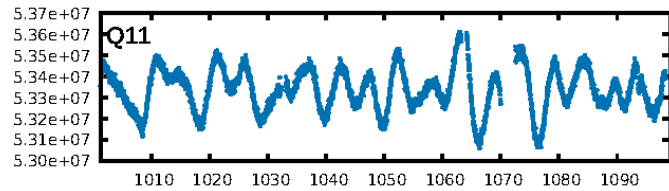
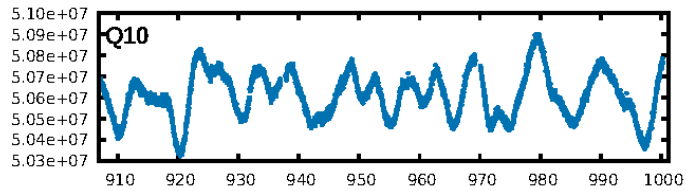
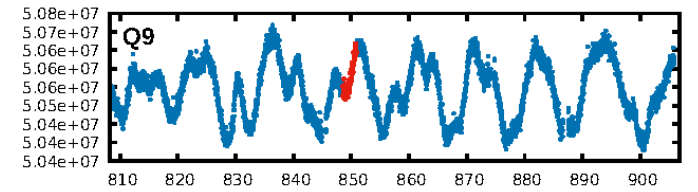
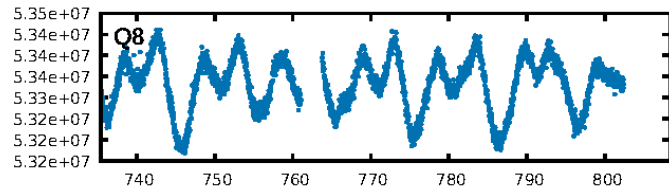
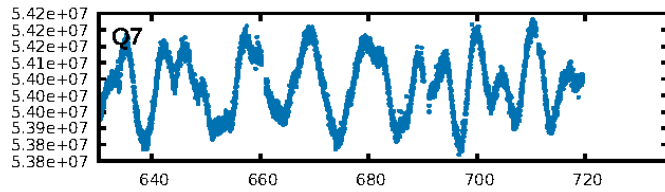
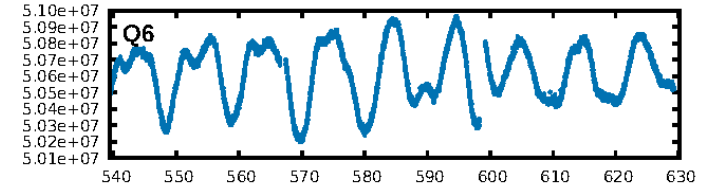
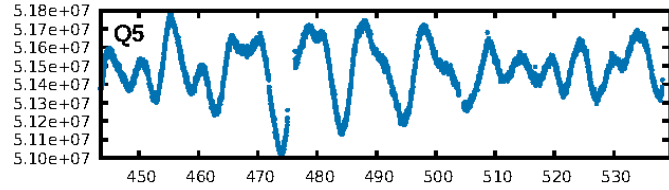
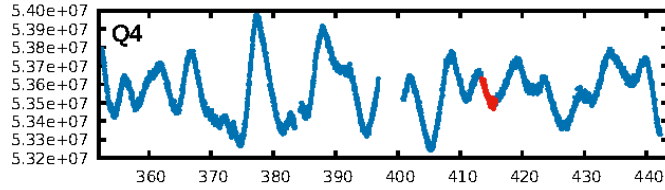
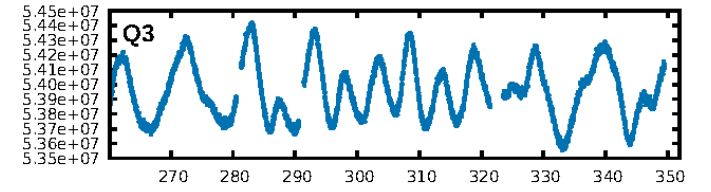
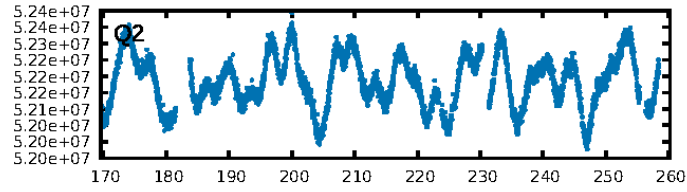
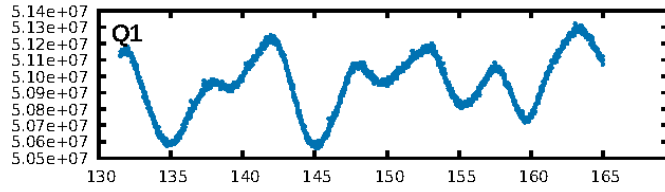
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [46.80 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 47.5%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.96e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -21.18
Centroid-sig: 48.4%
Centroid-so: 2.635 arcsec [4.64 σ]
OotOffset-rm: 1.385 arcsec [0.21 σ]
KicOffset-rm: 6.421 arcsec [2.16 σ]
OotOffset-st: 0/0/1/1 [2]
KicOffset-st: 0/0/1/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 0.00 [0/2]

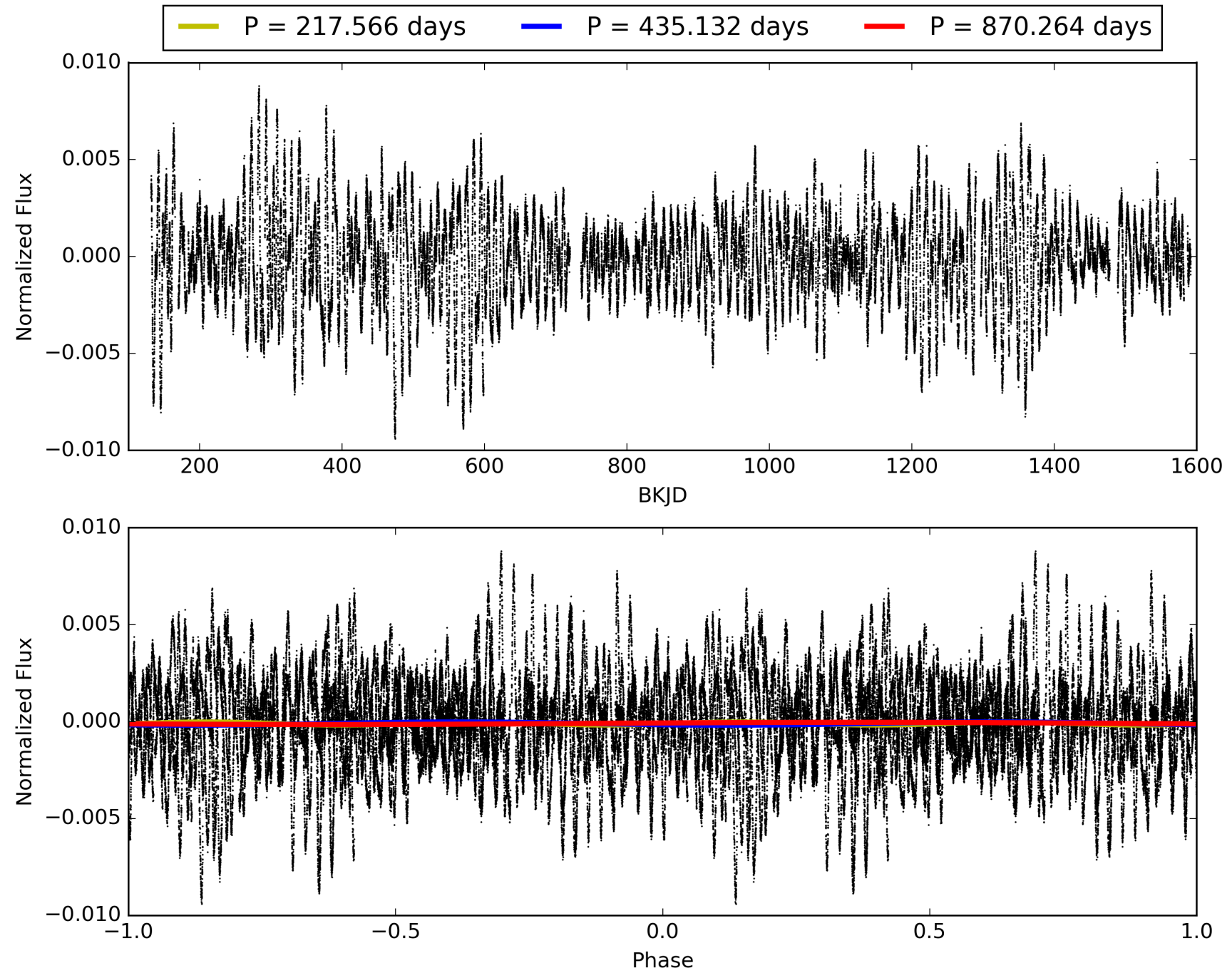
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:05:27 Z

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

TCE 011763903-06, PDC Light Curves

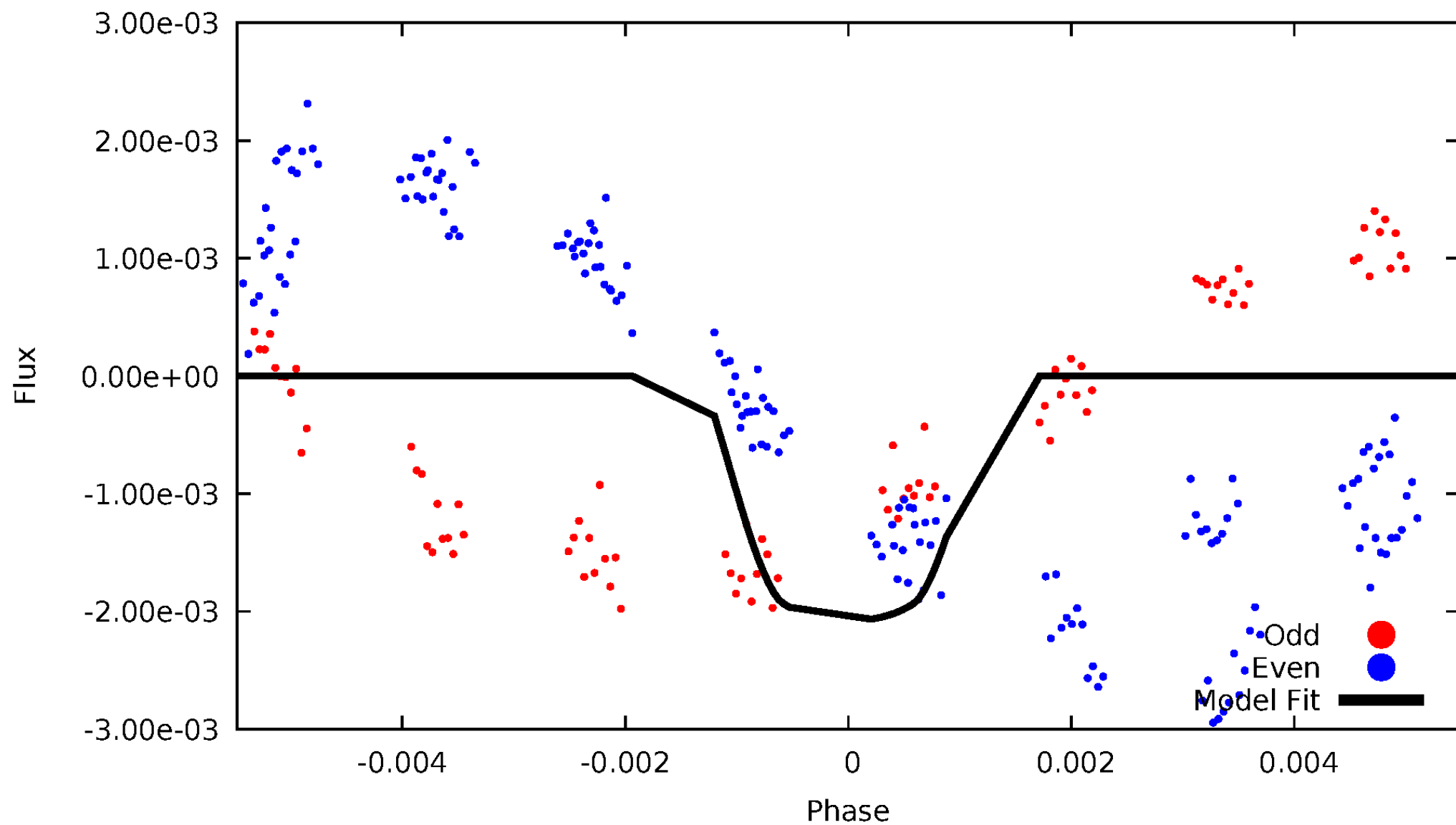


TCE 011763903-06



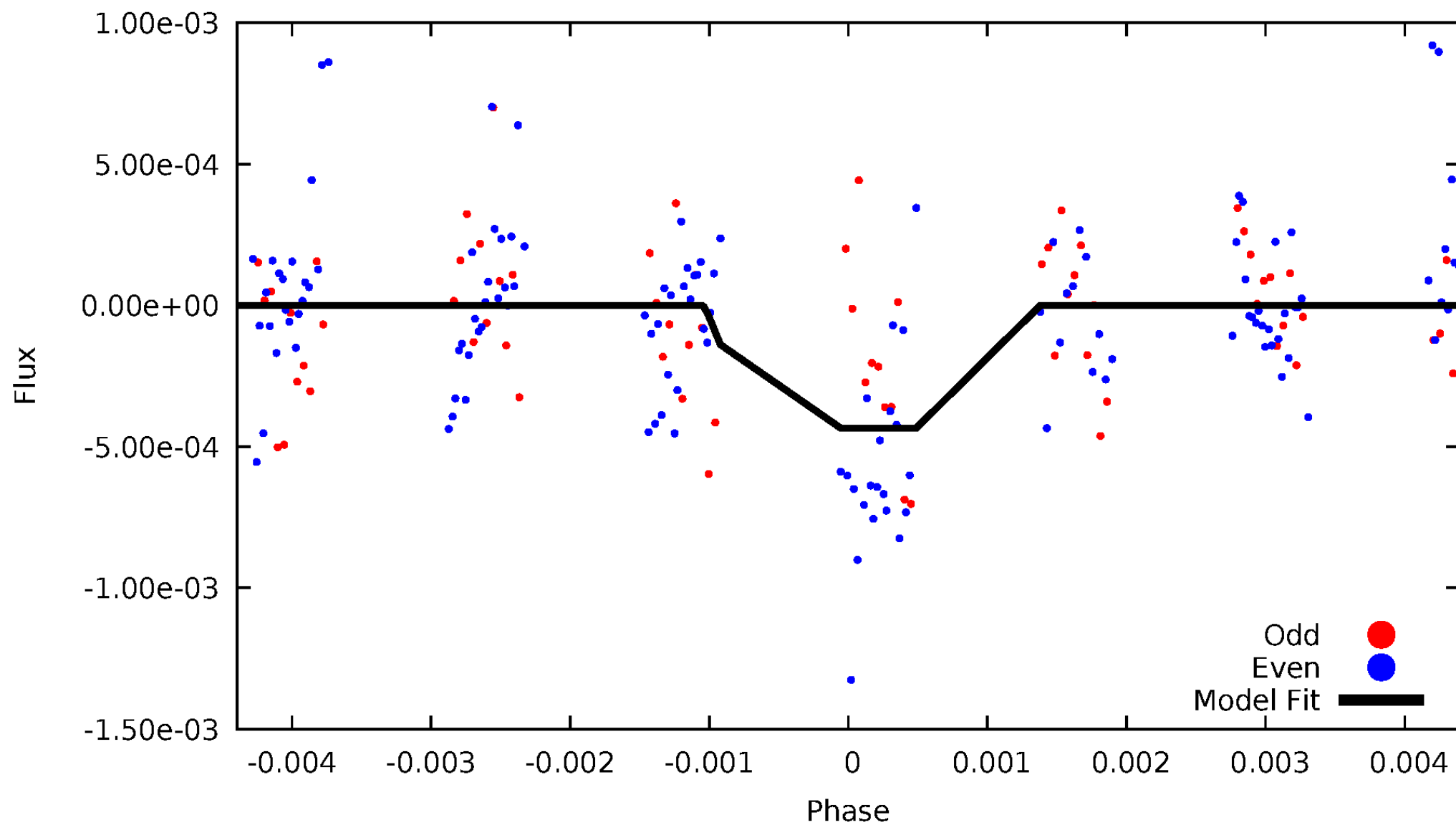
DV Odd/Even

TCE 011763903-06



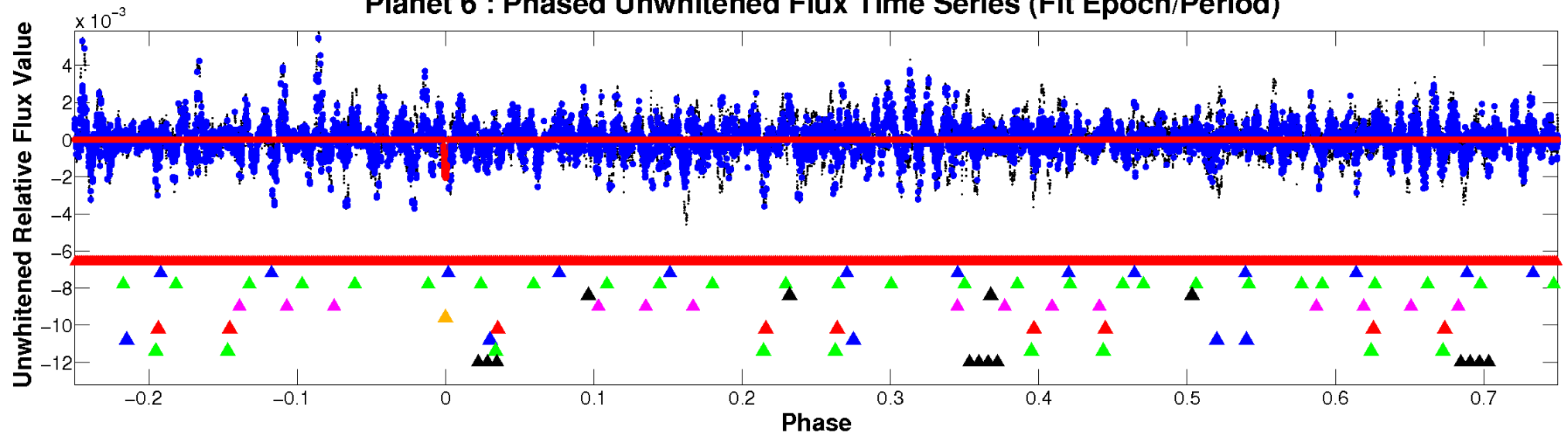
ALT Odd/Even

TCE 011763903-06

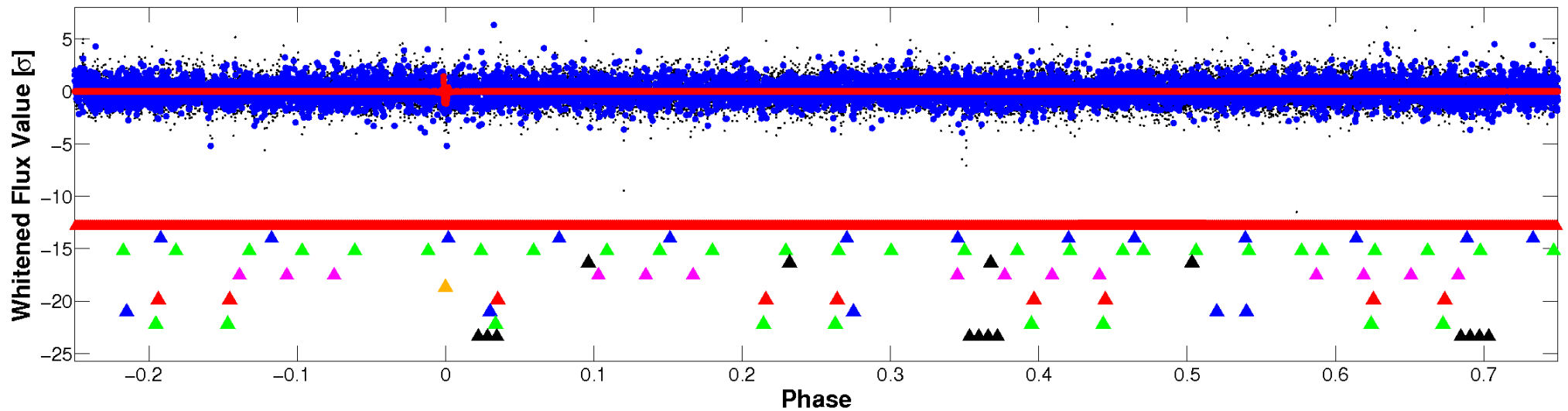


Non-Whitened Vs. Whitened Light Curve

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

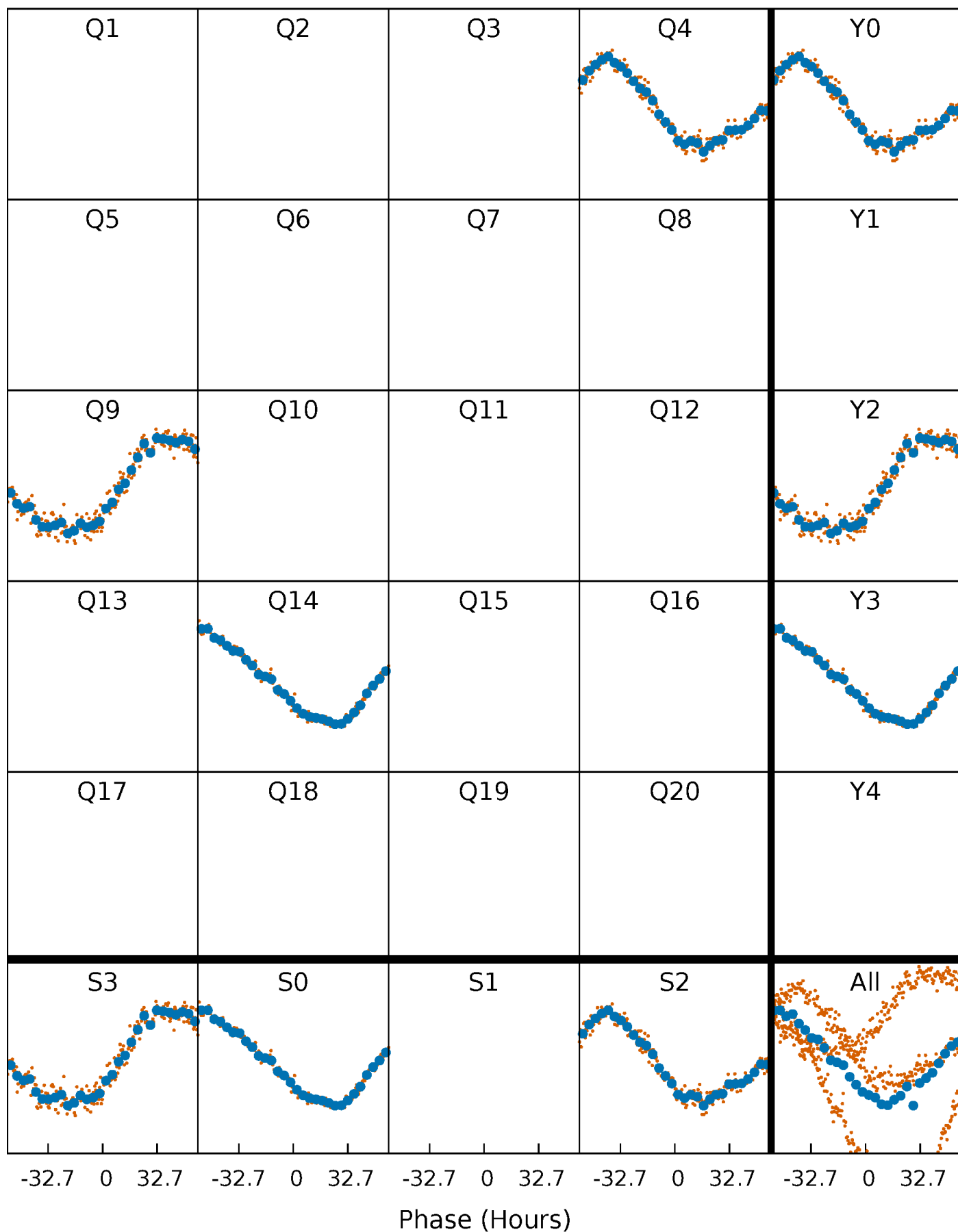


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



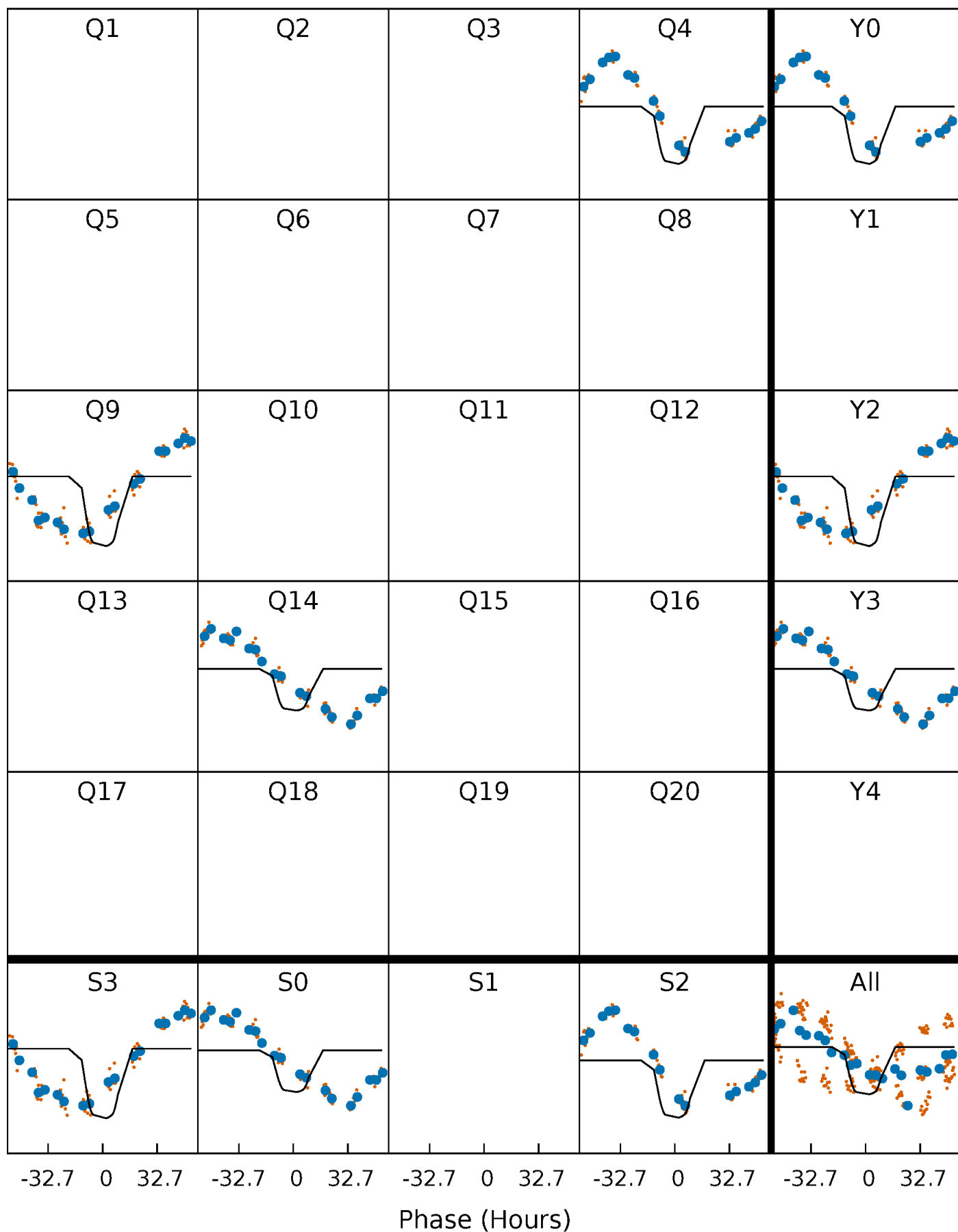
PDC Quarter-Phased Transit Curves

TCE 011763903-06 P=435.132052 Days $T_0=414.609181$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011763903-06 $P=435.132052$ Days $T_0=414.609181$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

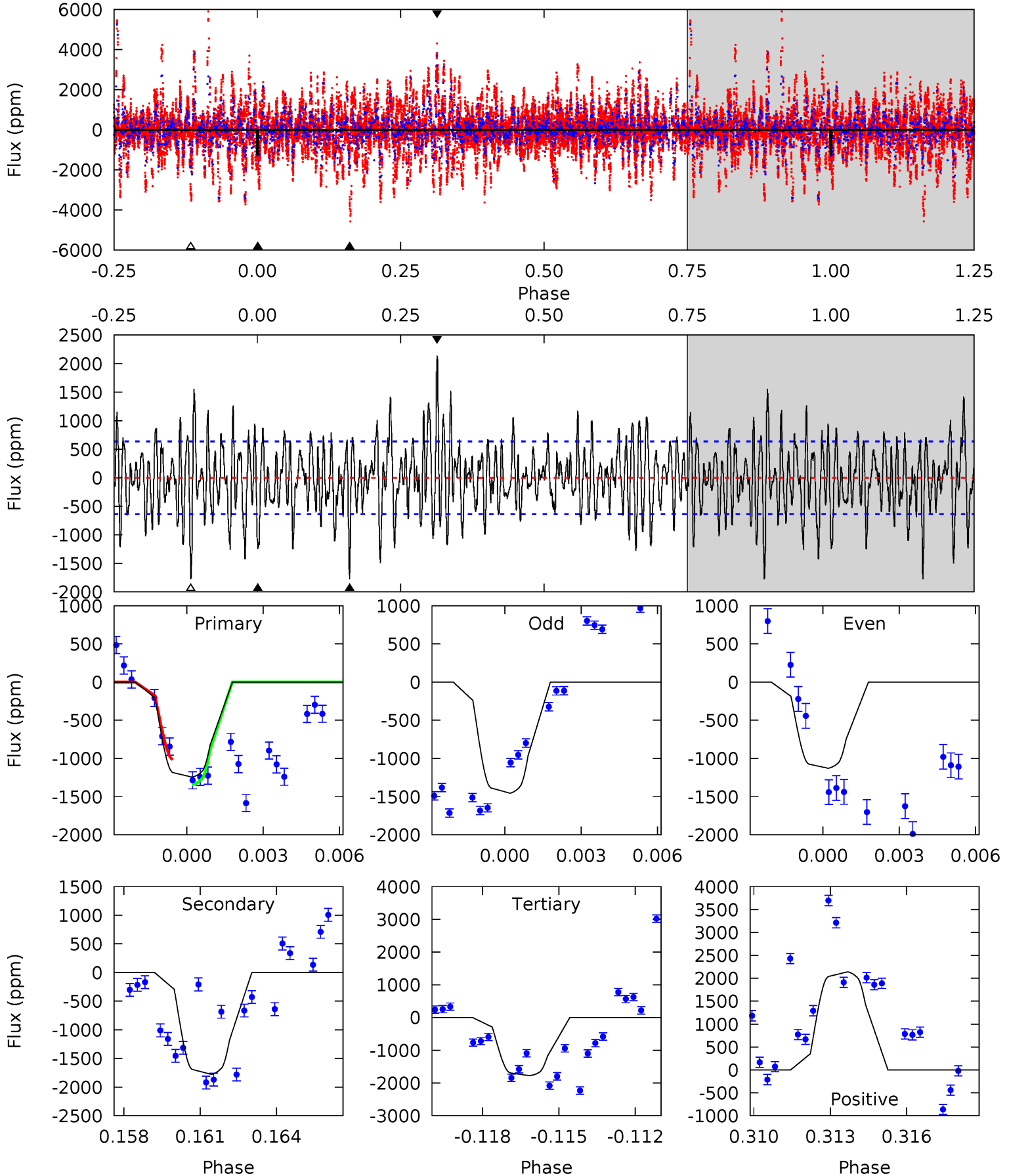
TCE 011763903-06 P=435.159905 Days $T_0=414.722858$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-06, P = 435.132052 Days, E = 414.609181 Days

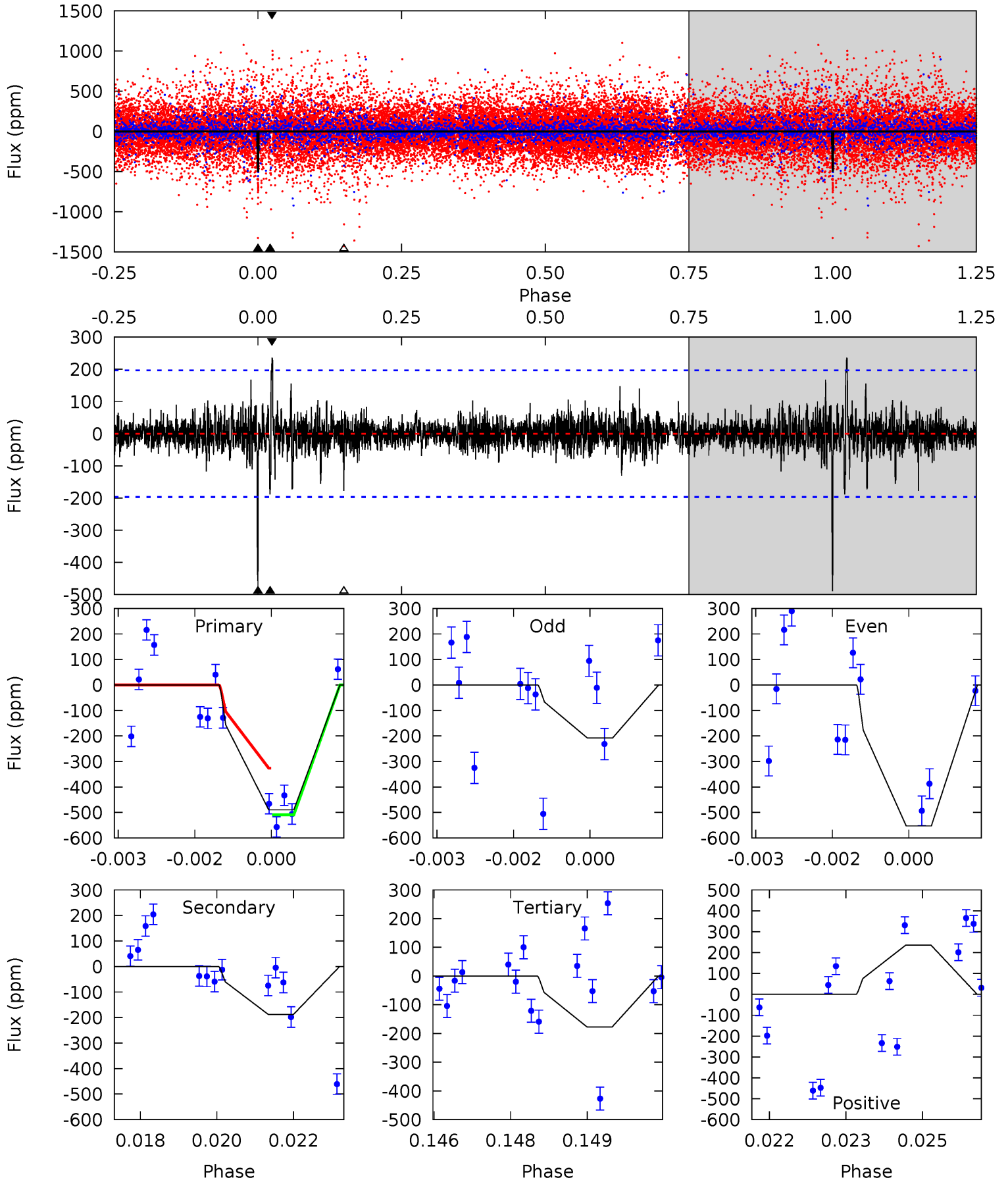
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.3	14.7	14.7	17.7	5.26	2.98	4.25	-4.39	-7.41	0.01	-3.00	1.37	0.98	0.55	1.38



Alt Model-Shift Uniqueness Test

011763903-06, P = 435.159905 Days, E = 414.722858 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
13.4	5.14	4.84	6.44	5.37	3.17	0.88	8.53	6.93	0.29	-1.30	4.53	0.82	0.33	2.23



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-1778 ± 121	$6.14^{+1.31}_{-0.96}$	382^{+25}_{-20}	5770^{+497}_{-362}	34572^{+13632}_{-10611}
Alt.	-188 ± 37	$2.54^{+0.97}_{-0.84}$	383^{+25}_{-17}	5186^{+1153}_{-643}	20900^{+27900}_{-9722}

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 $A_{obs} \gg 1.0$

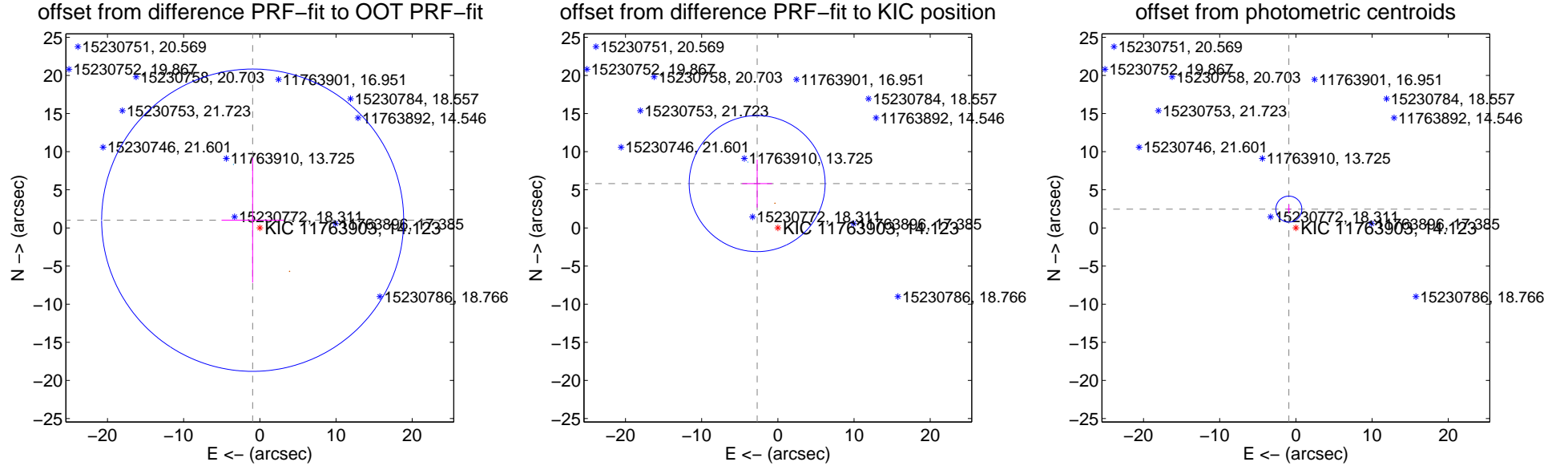
DV Centroid Data

Supplemental centroid analysis for 011763903-06. Kepler magnitude: 14.12. Transit SNR 7.14

There are 1 quarters with good PRF difference image offsets

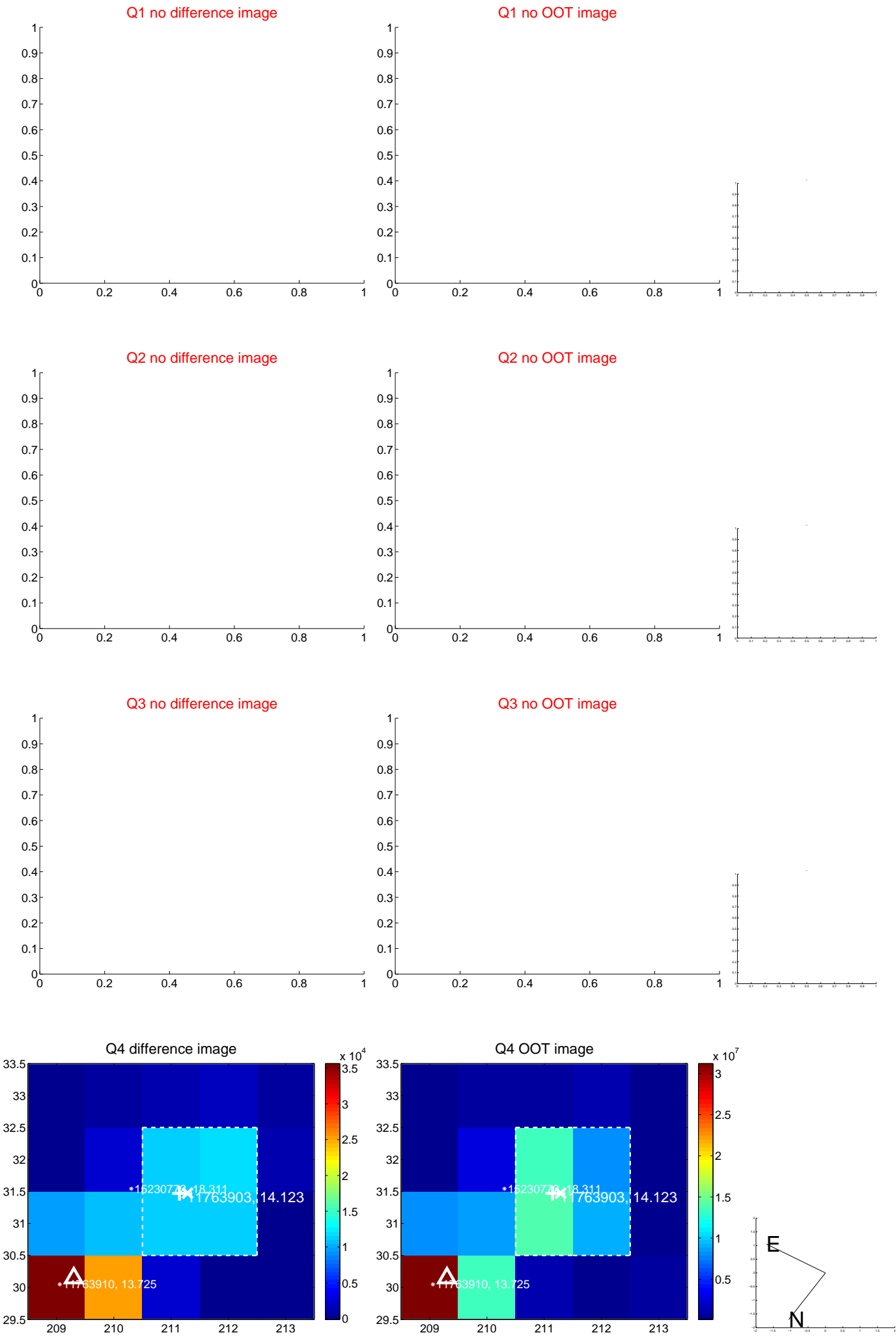
The OOT PRF centroid is offset from the target star catalog position by about 9.91 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.385 ± 6.609	0.21	0.944 ± 4.083	1.014 ± 8.188
PRF-fit source offset from KIC position	6.421 ± 2.975	2.16	2.719 ± 1.972	5.816 ± 3.152
photometric centroid source offset	2.63 ± 0.57	4.64	0.92 ± 0.23	2.47 ± 0.60

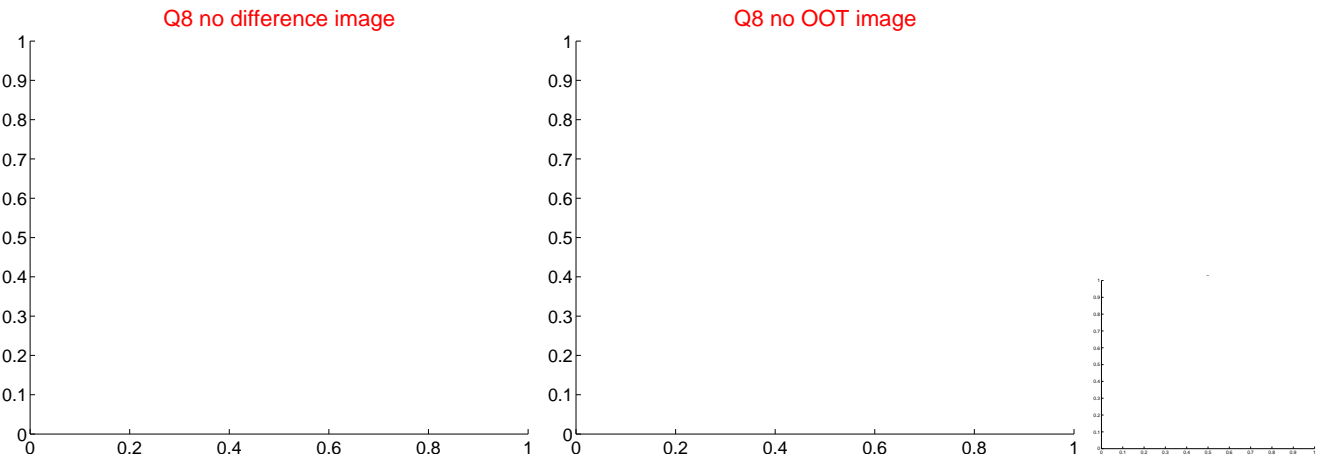
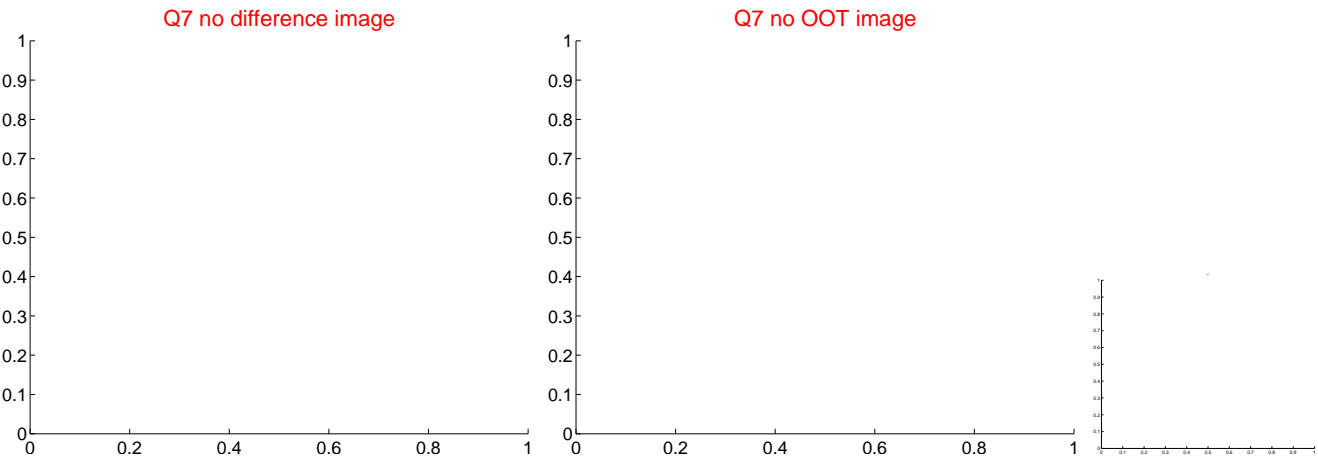
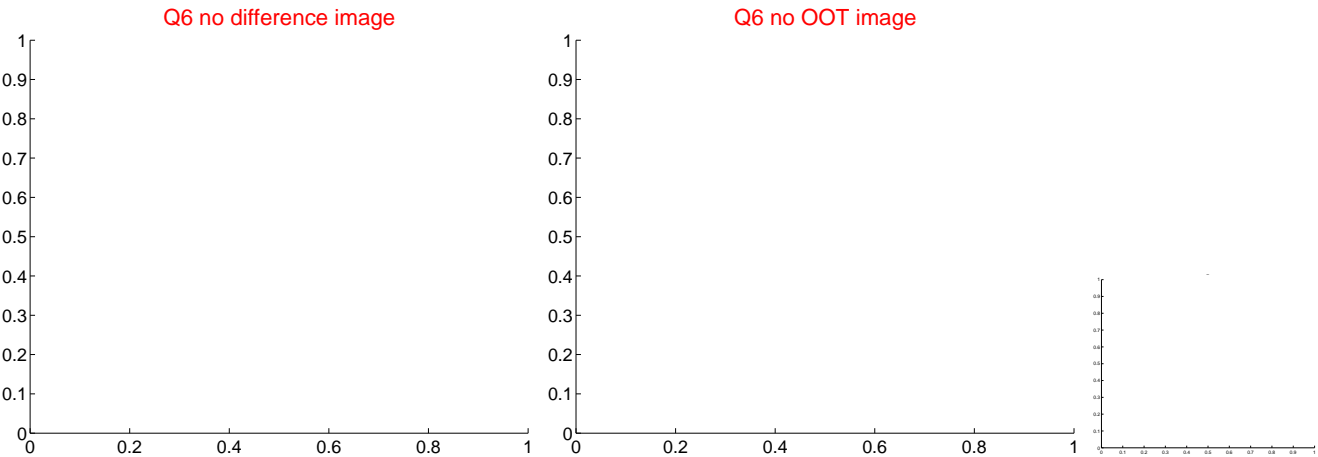
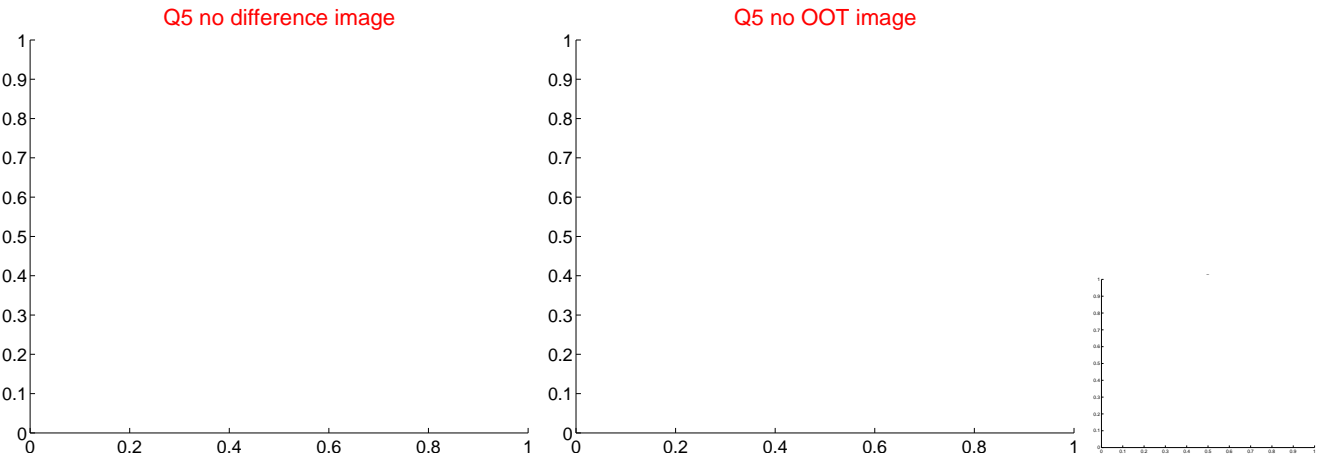


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

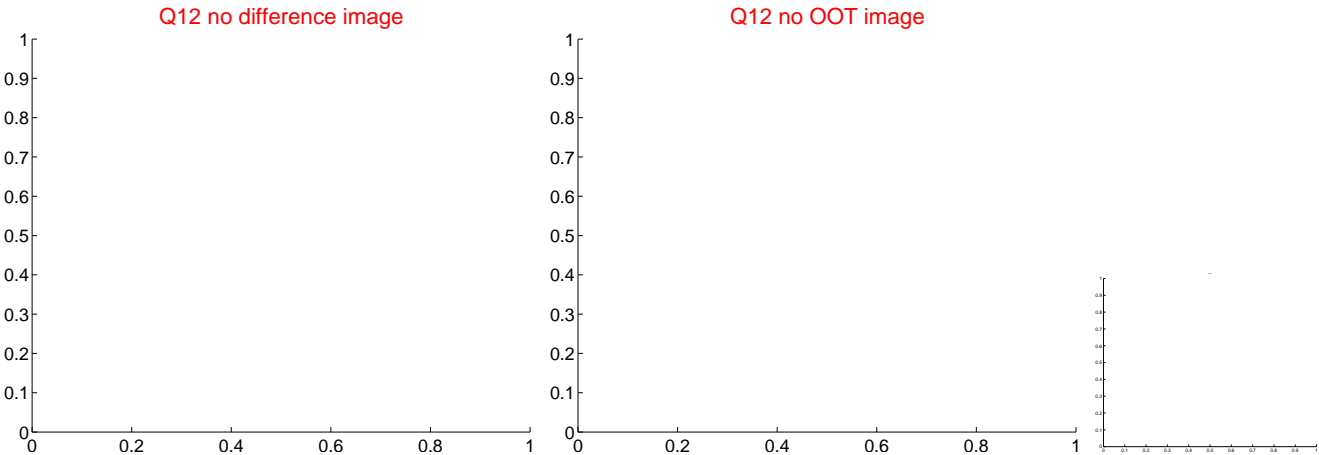
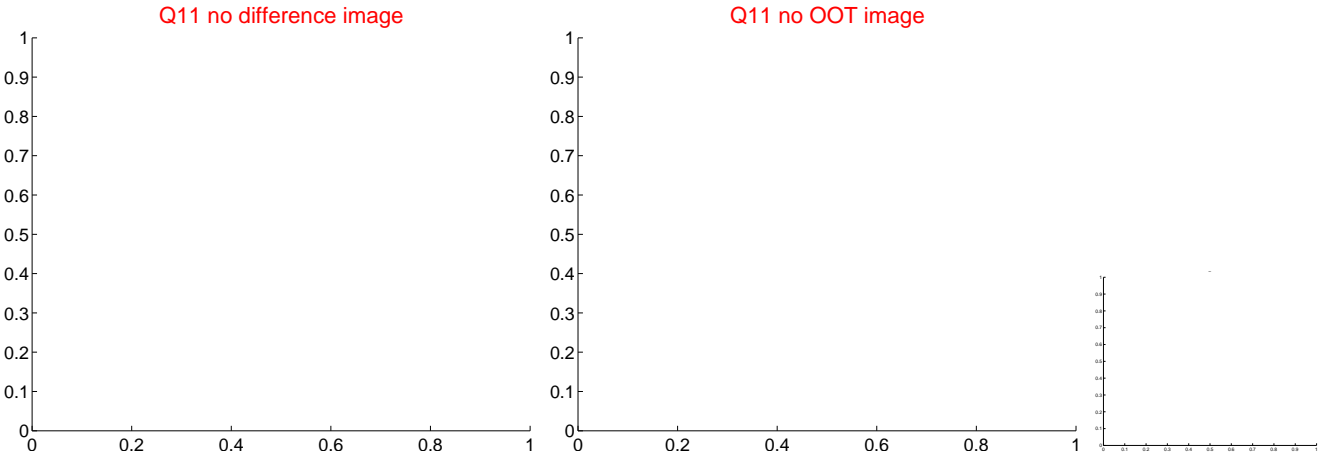
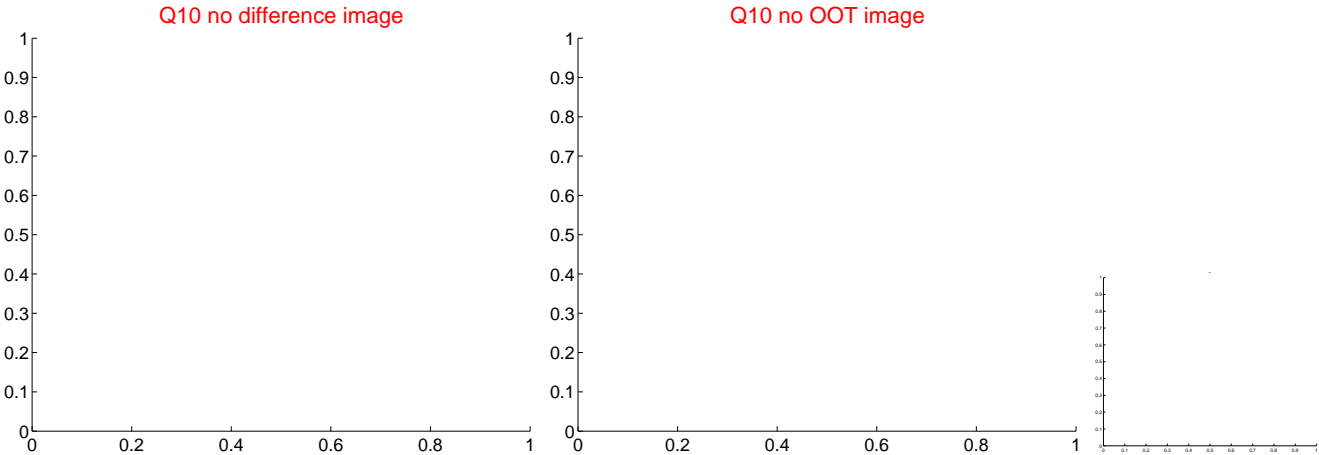
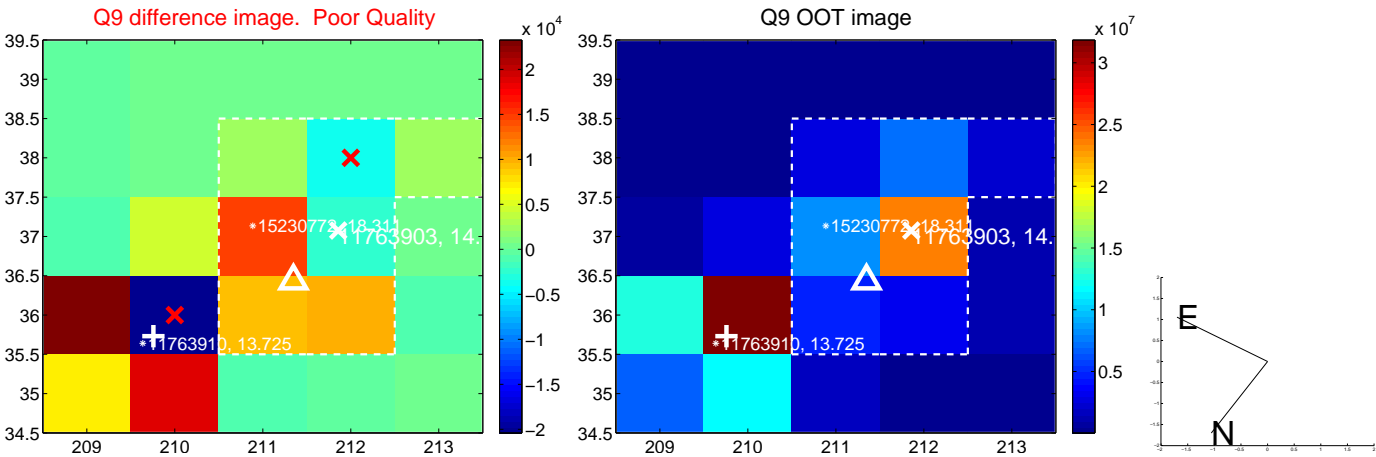
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



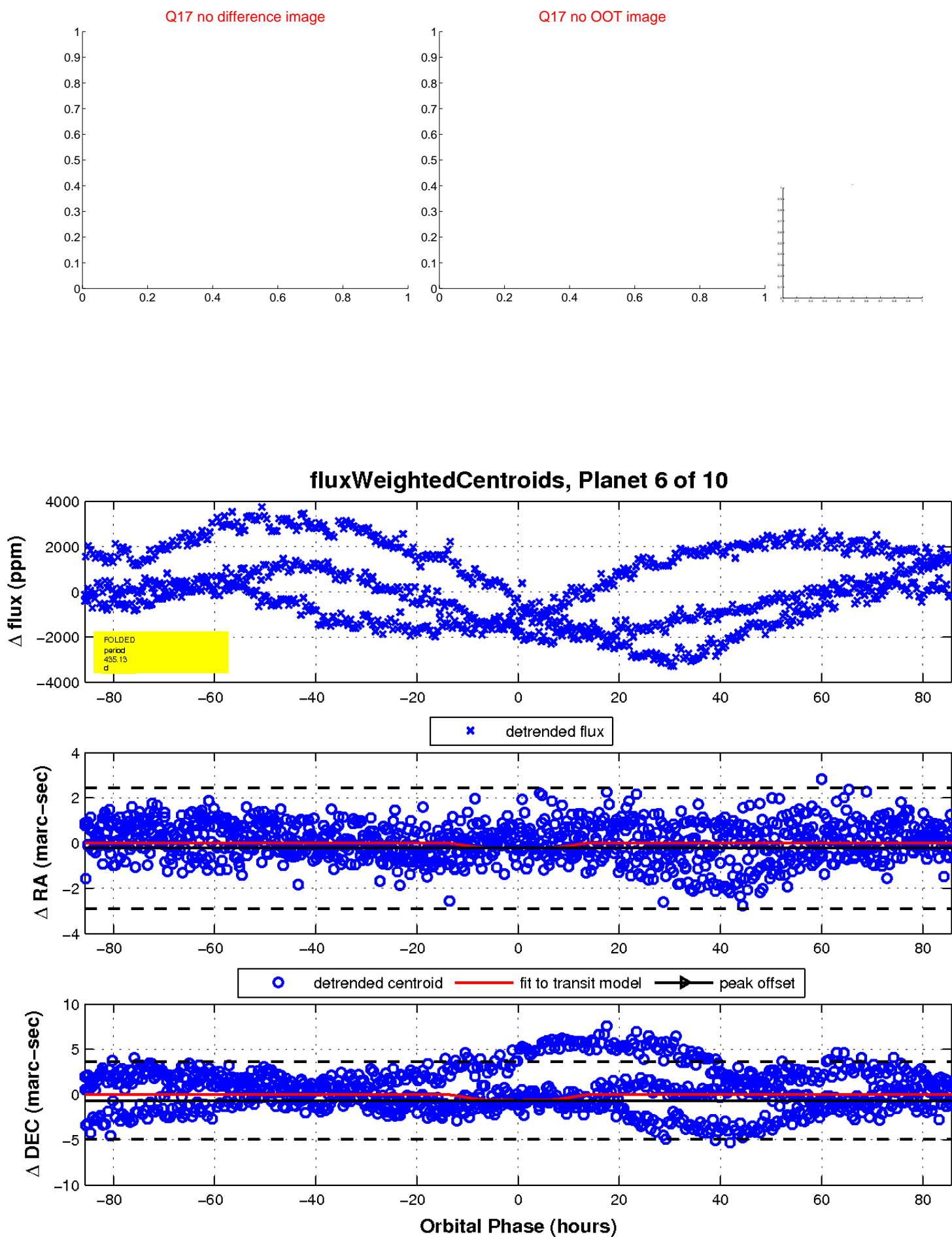
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

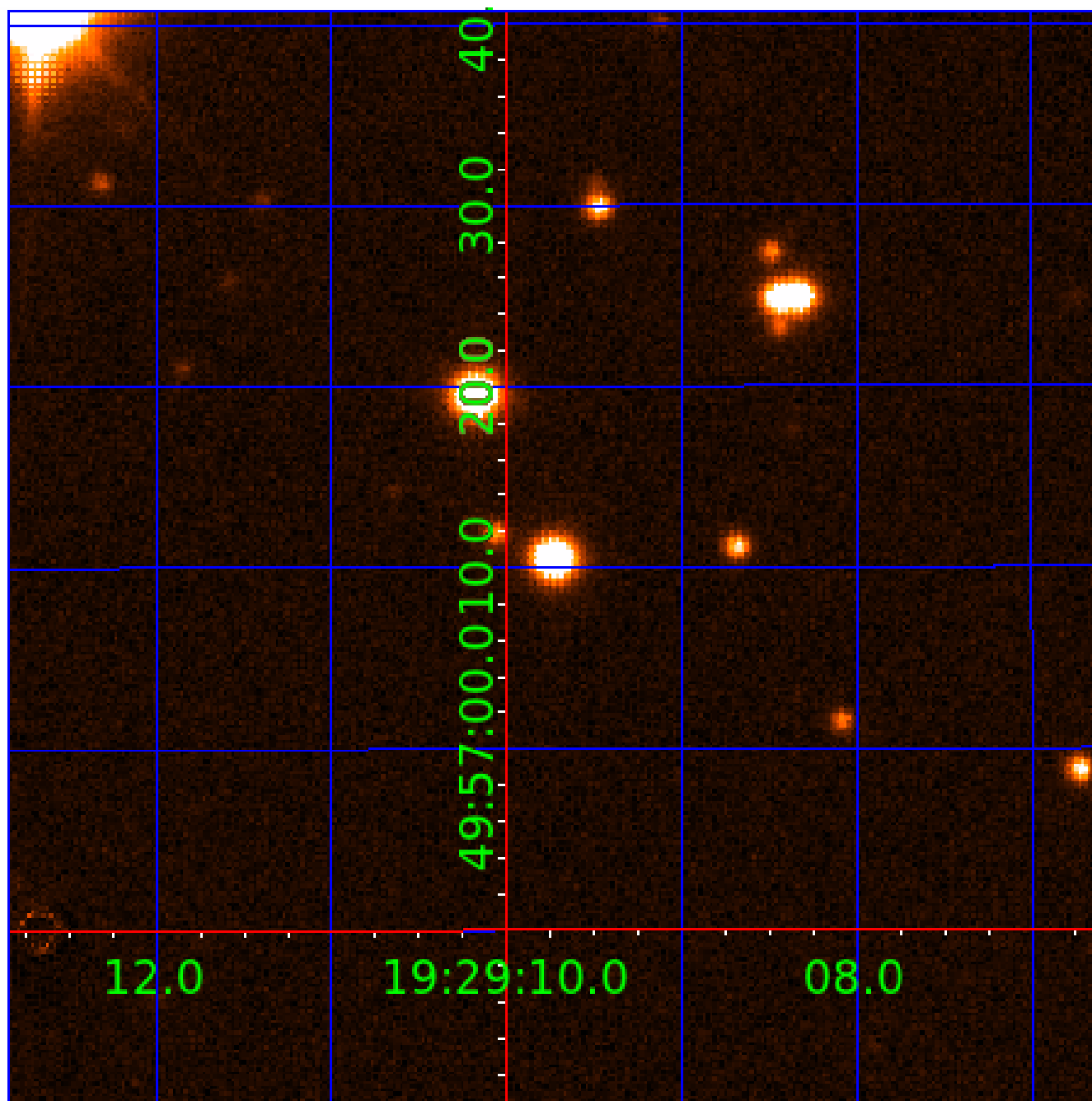


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

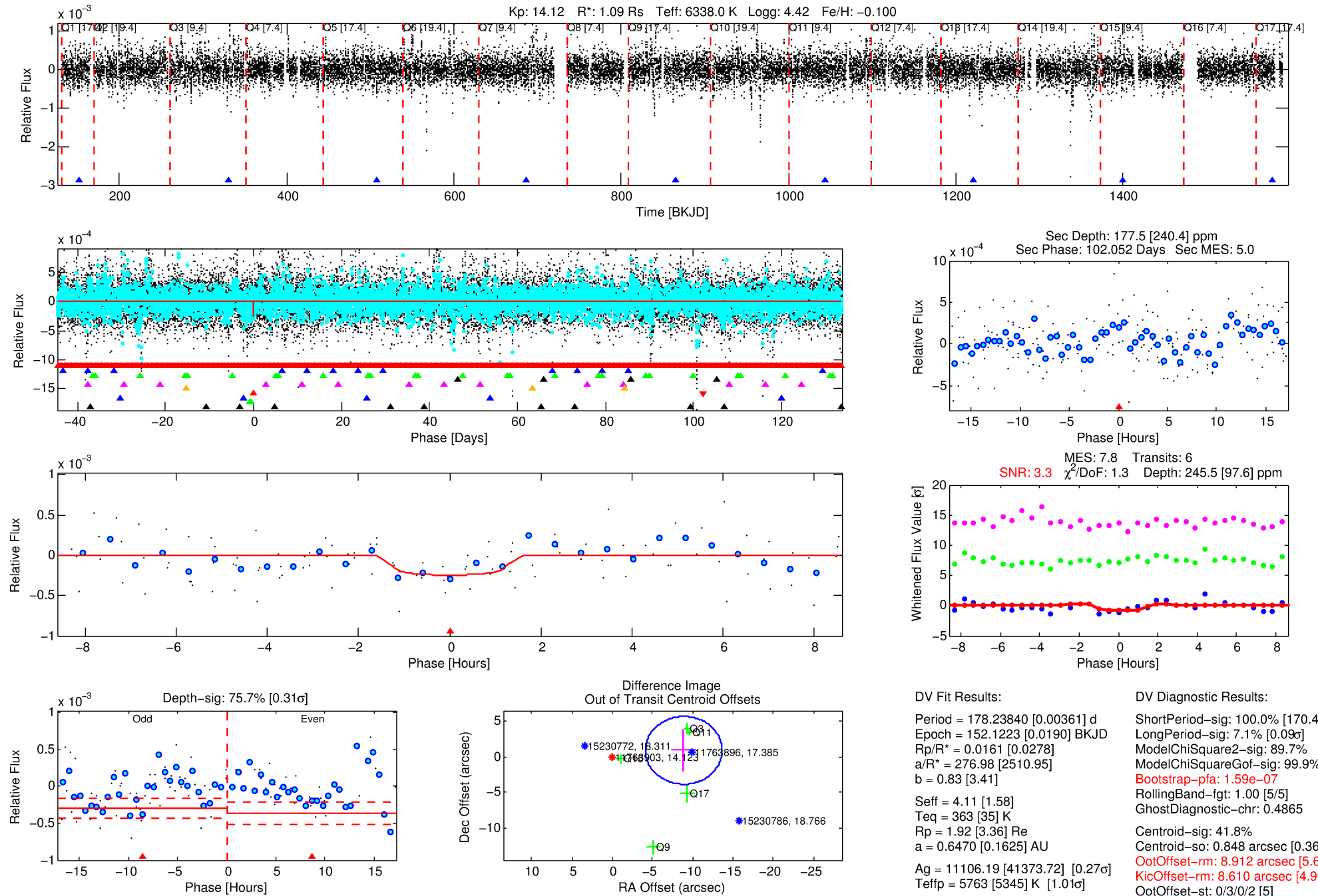
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-07

No Significant Match Found

DV One-Page Summary

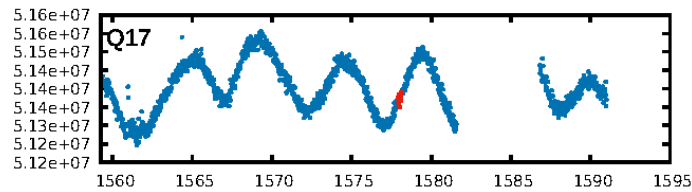
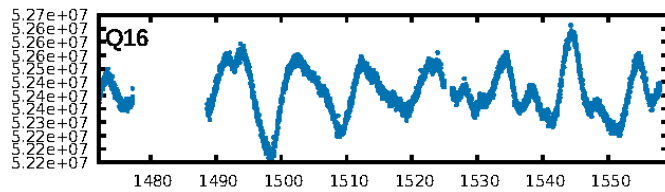
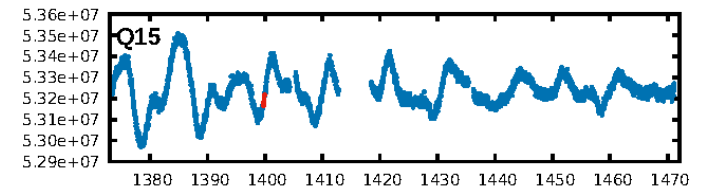
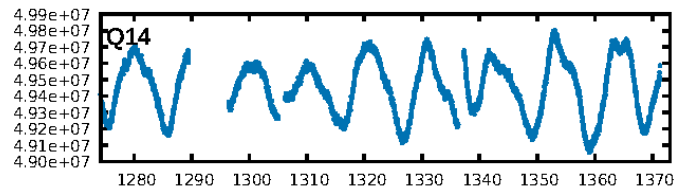
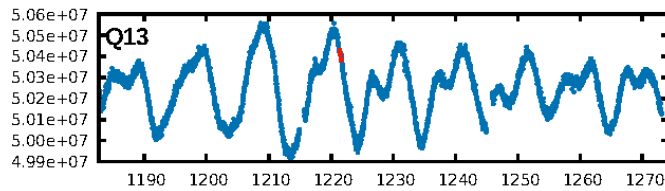
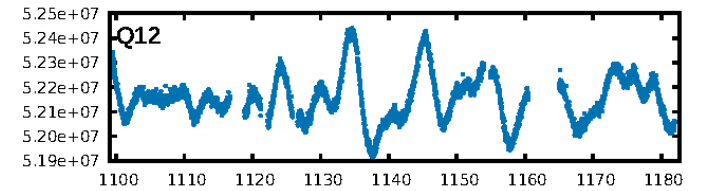
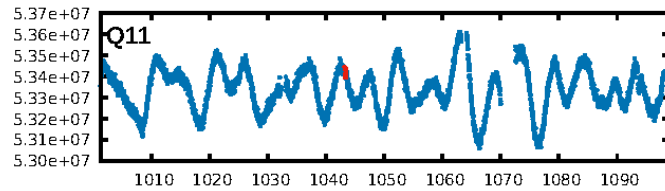
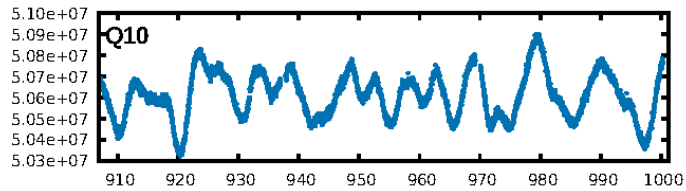
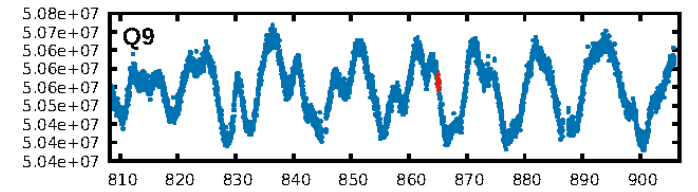
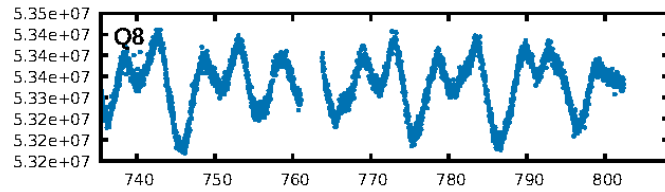
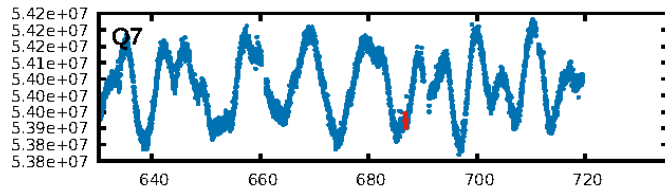
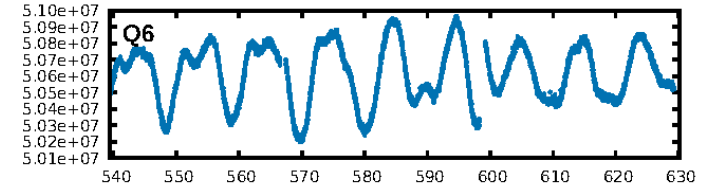
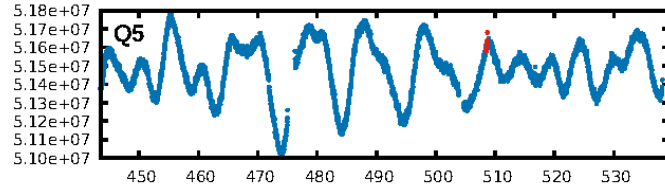
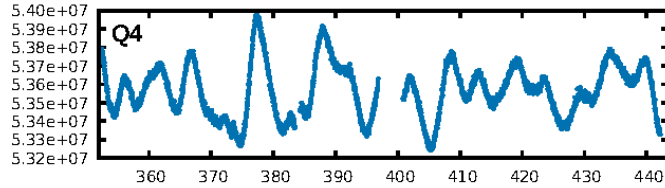
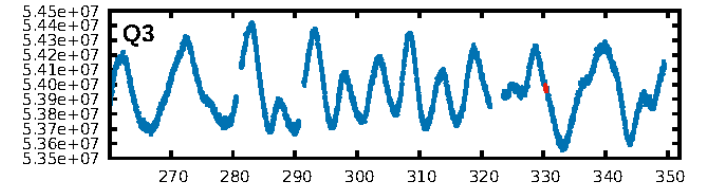
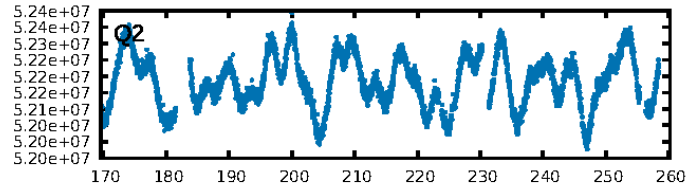
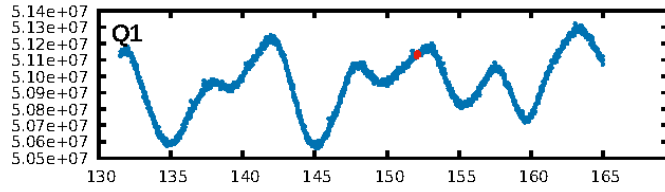
KIC: 11763903 Candidate: 7 of 10 Period: 178.238 d



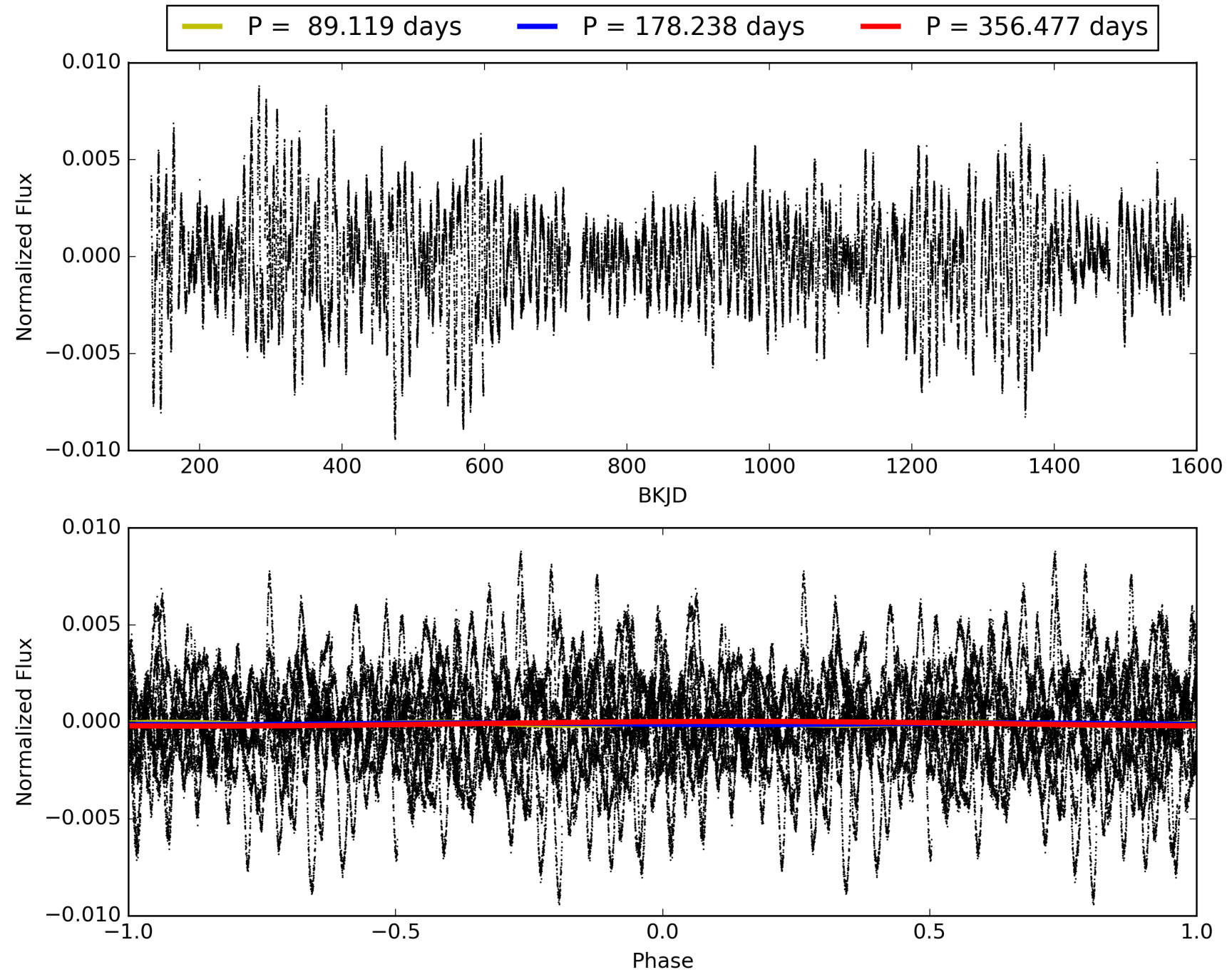
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:05:33 Z

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

TCE 011763903-07, PDC Light Curves

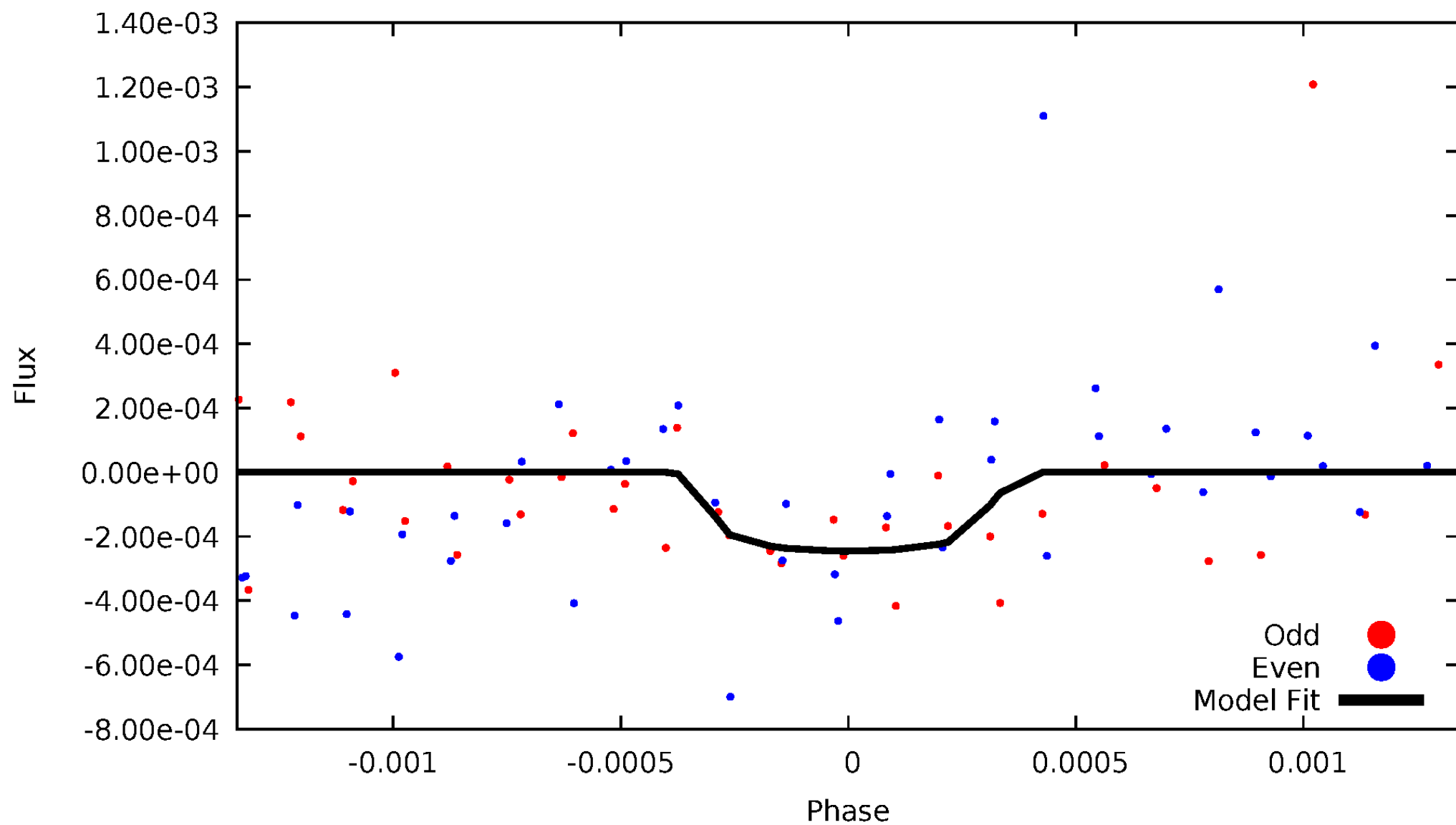


TCE 011763903-07



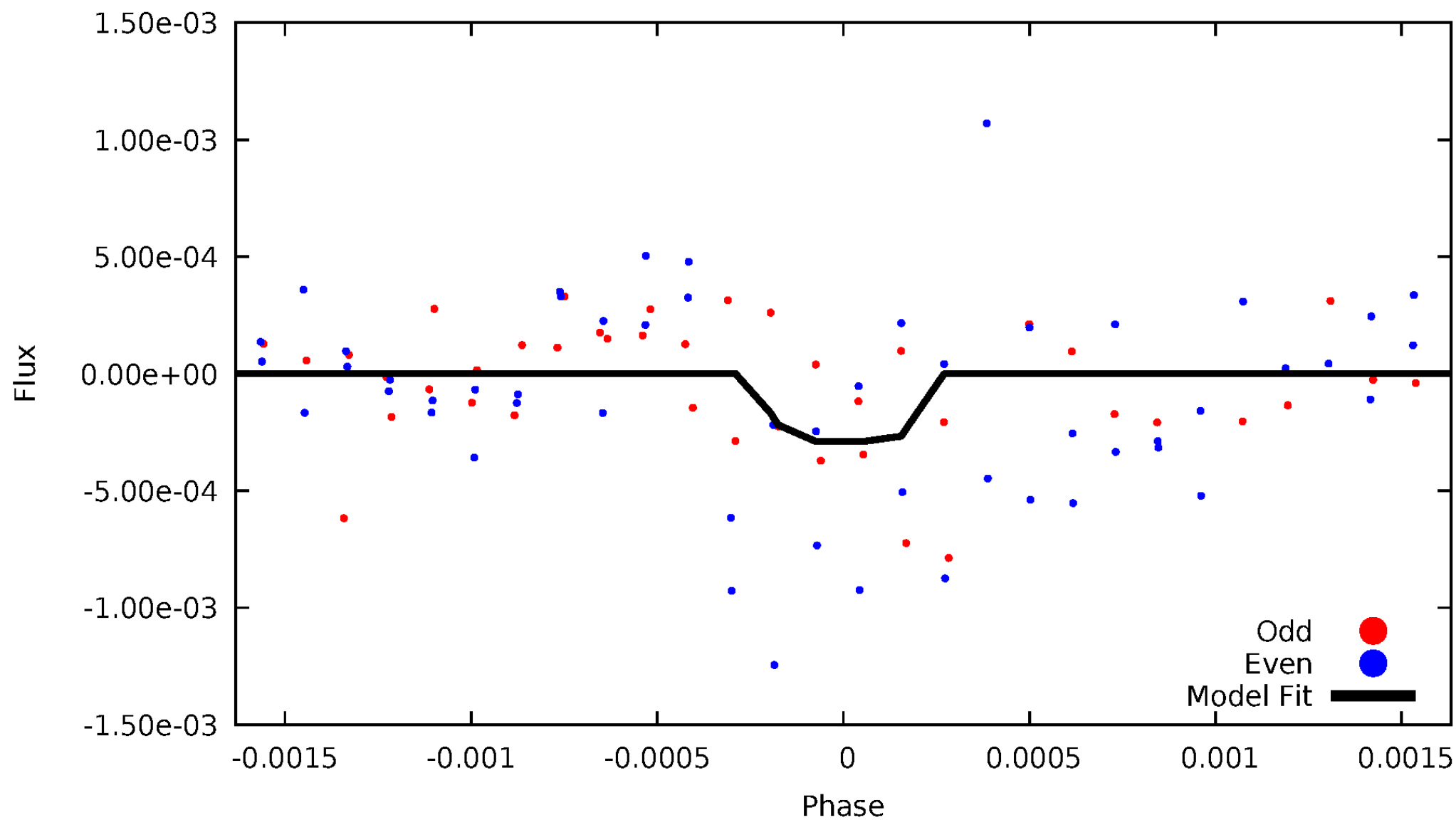
DV Odd/Even

TCE 011763903-07



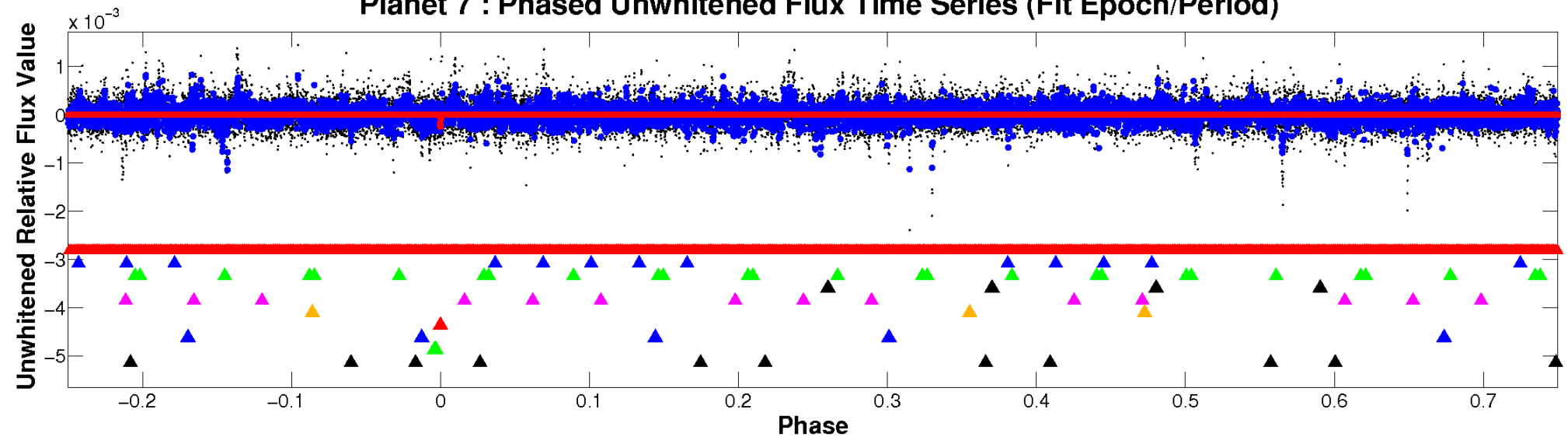
ALT Odd/Even

TCE 011763903-07

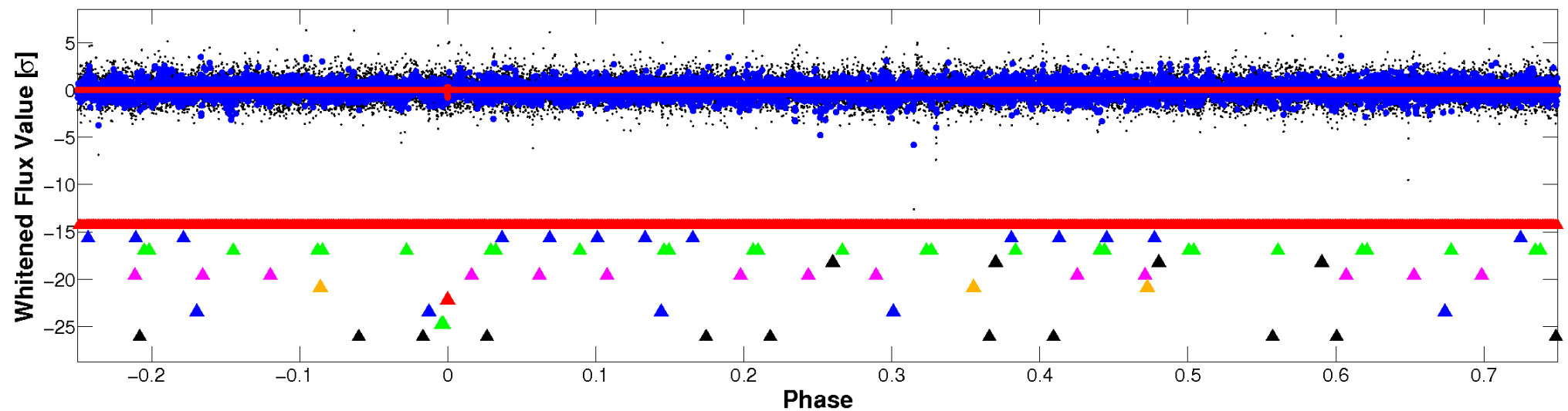


Non-Whitened Vs. Whitened Light Curve

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

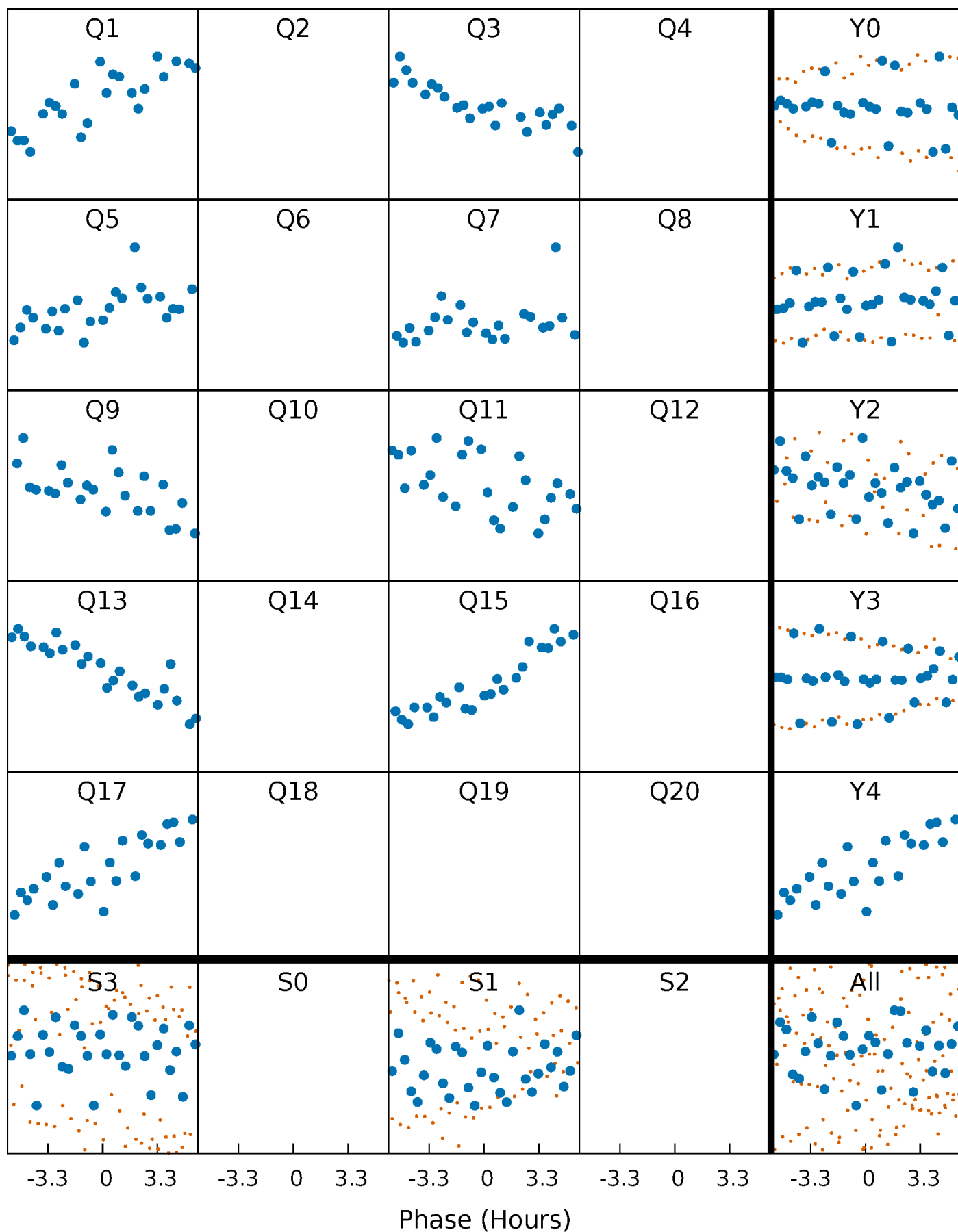


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



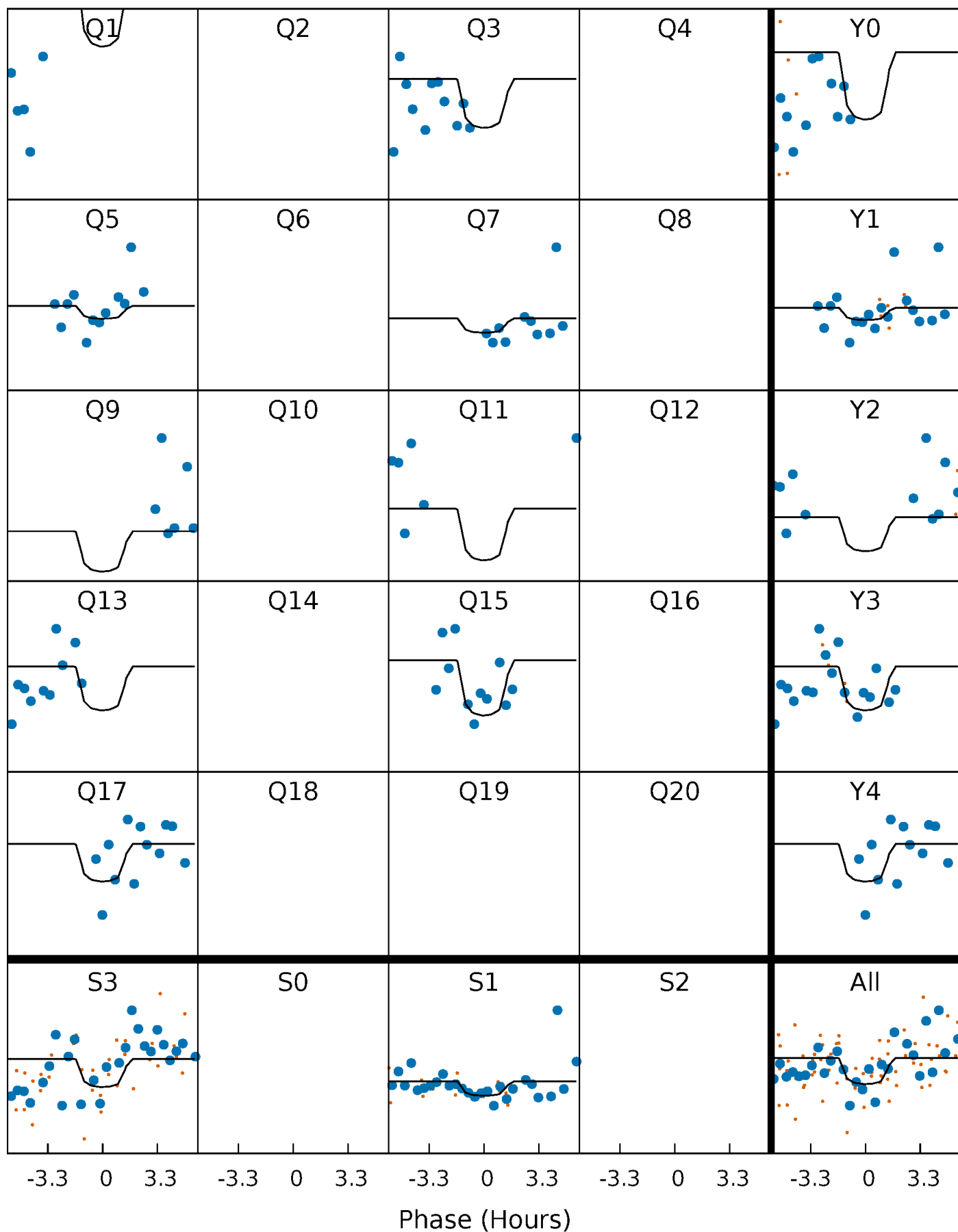
PDC Quarter-Phased Transit Curves

TCE 011763903-07 $P=178.238400$ Days $T_0=152.122297$ (BKJD)



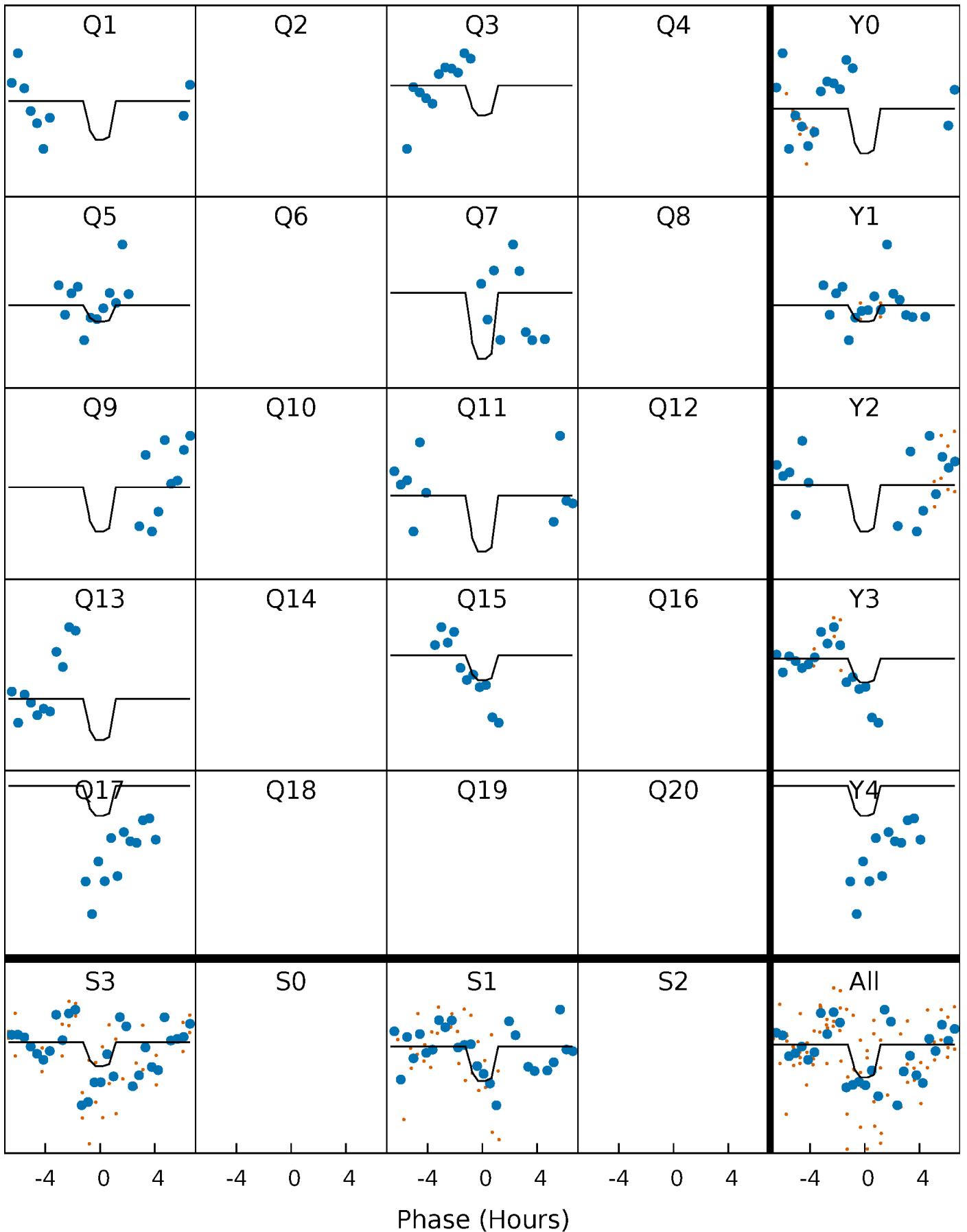
DV Quarter-Phased Transit Curves

TCE 011763903-07 $P=178.238400$ Days $T_0=152.122297$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

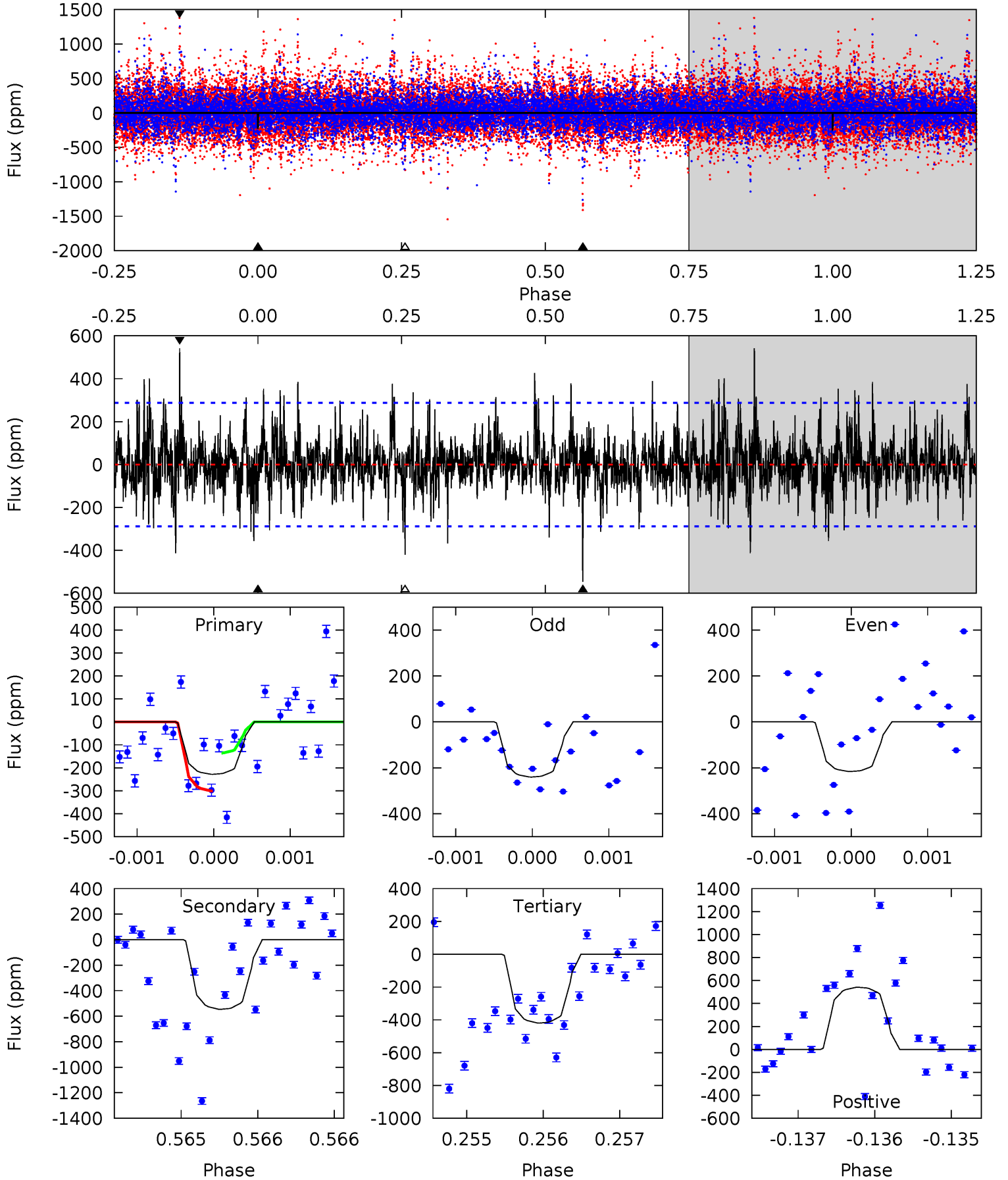
TCE 011763903-07 $P=178.241944$ Days $T_0=152.122995$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-07, P = 178.238400 Days, E = 152.122297 Days

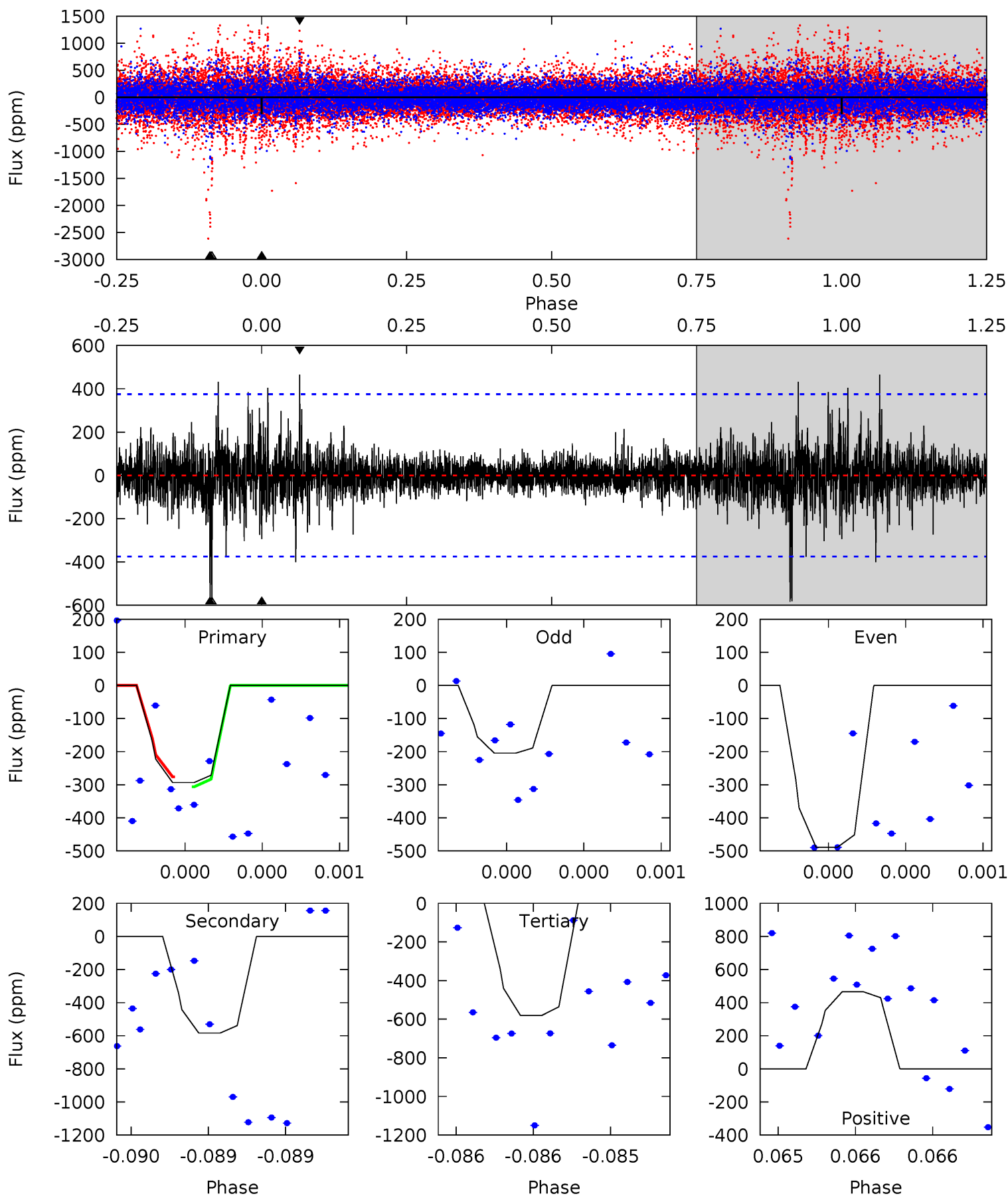
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.36	10.4	8.01	10.3	5.49	3.35	1.87	-3.65	-5.98	2.41	0.09	0.23	0.97	0.50	1.58



Alt Model-Shift Uniqueness Test

011763903-07, P = 178.241944 Days, E = 152.122995 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.38	8.70	8.65	6.94	5.59	3.50	1.07	-4.27	-2.56	0.04	1.76	1.98	1.35	0.44	0.21



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-546 ± 52	$3.25^{+3.05}_{-2.22}$	515^{+35}_{-25}	5975^{+6103}_{-1512}	$12066^{+102862}_{-8963}$
Alt.	-583 ± 67	$3.24^{+3.27}_{-2.13}$	513^{+37}_{-24}	6059^{+5701}_{-1557}	12516^{+94729}_{-9374}

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 $A_{obs} \gg 1.0$

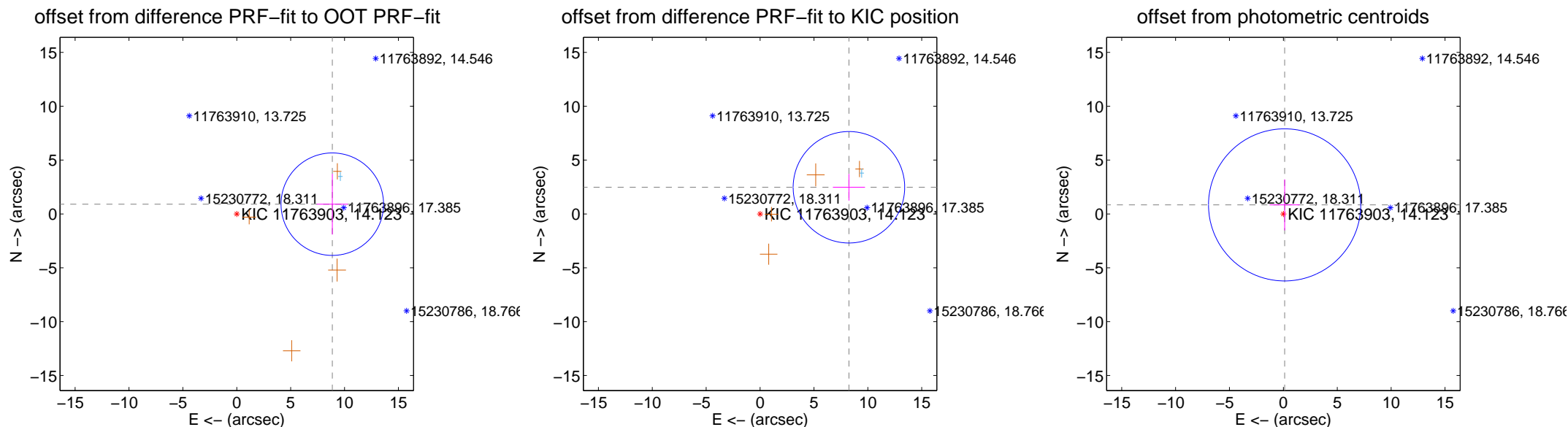
DV Centroid Data

Supplemental centroid analysis for 011763903-07. Kepler magnitude: 14.12. Transit SNR 3.26

There are 1 quarters with good PRF difference image offsets

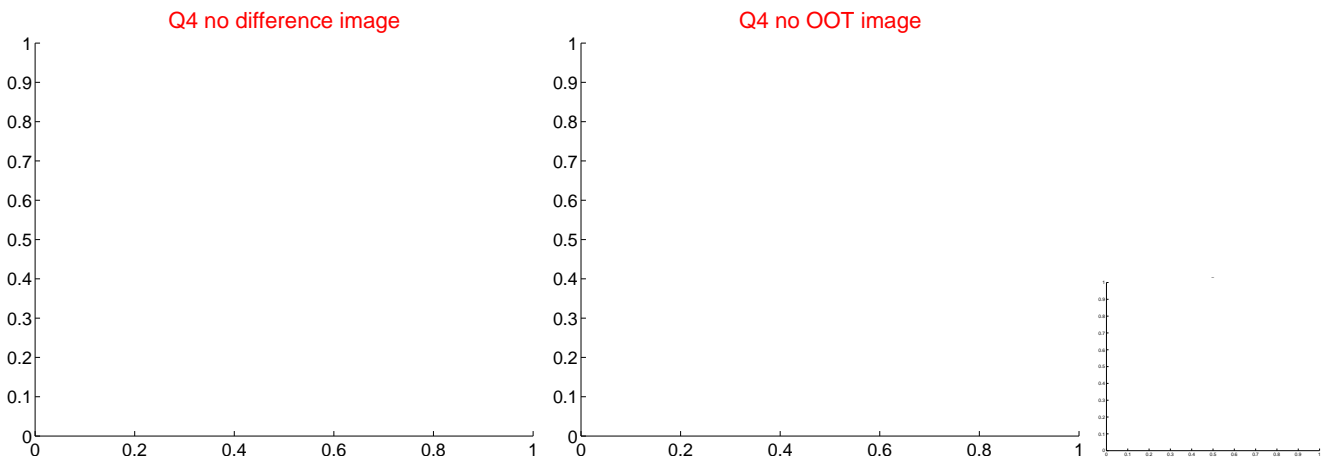
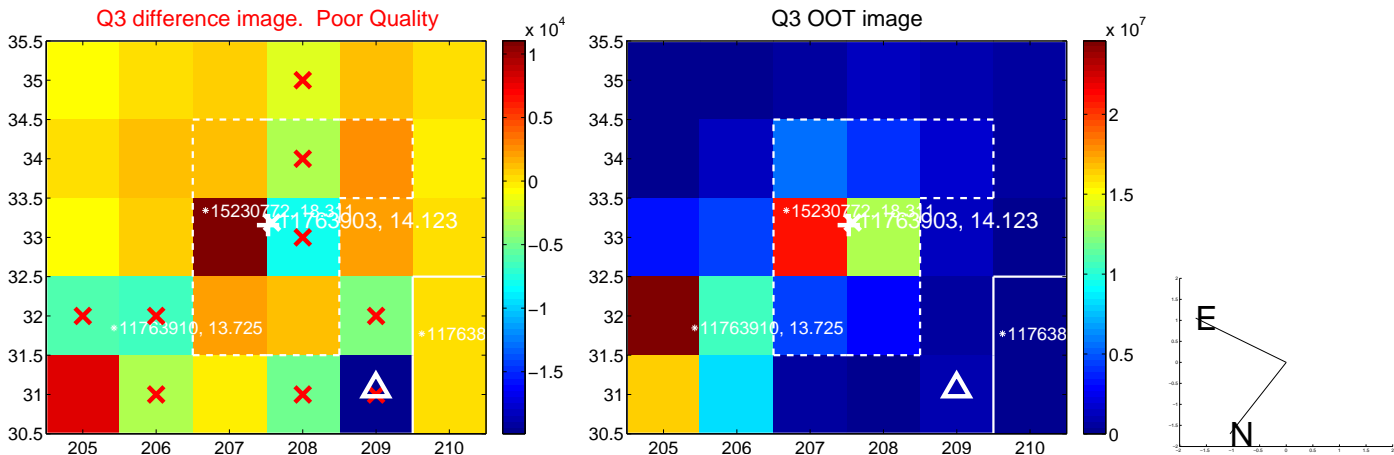
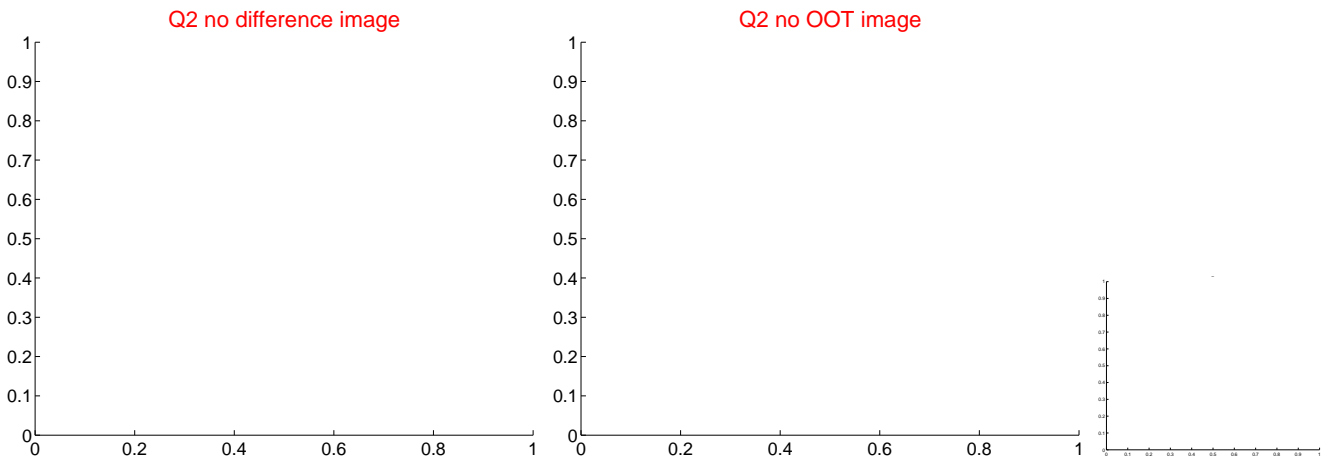
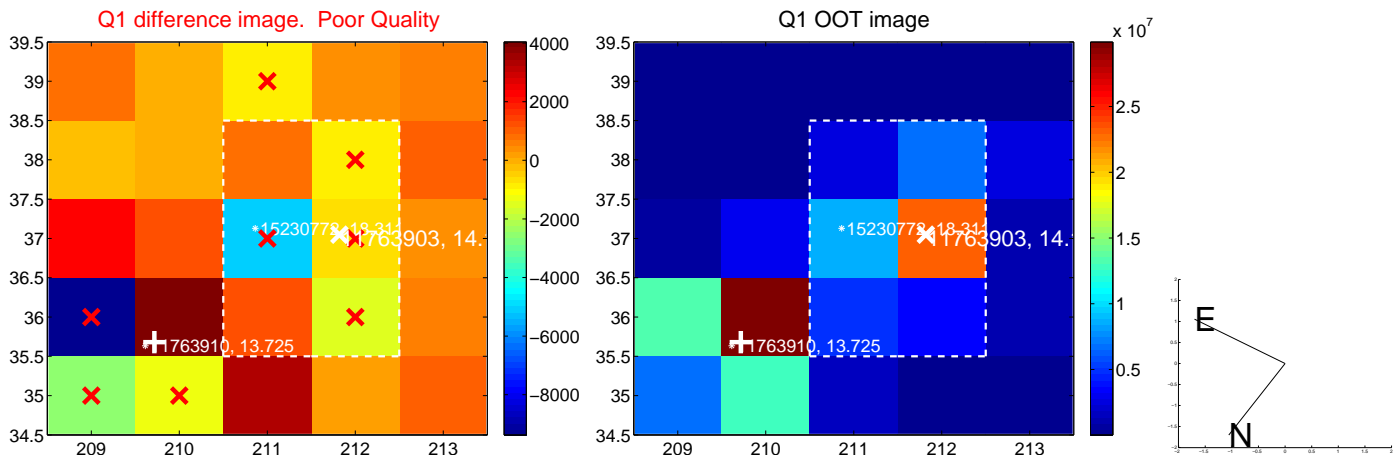
The OOT PRF centroid is offset from the target star catalog position by about 9.77 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	8.912 \pm 1.586	5.62	-8.866 \pm 1.437	0.906 \pm 2.819
PRF-fit source offset from KIC position	8.610 \pm 1.725	4.99	-8.247 \pm 1.490	2.477 \pm 1.240
photometric centroid source offset	0.85 \pm 2.35	0.36	-0.12 \pm 1.39	0.84 \pm 2.37

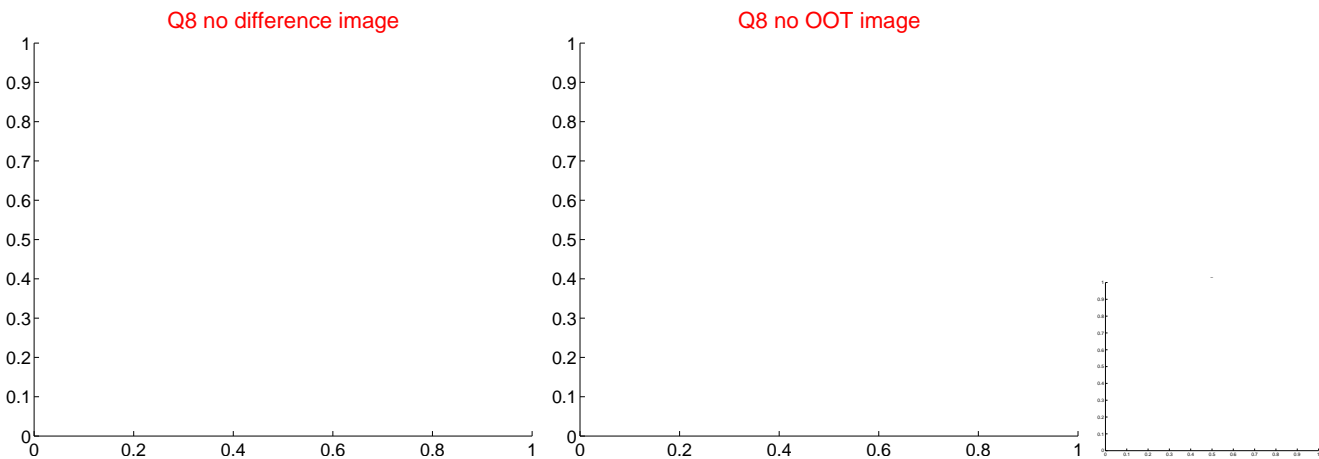
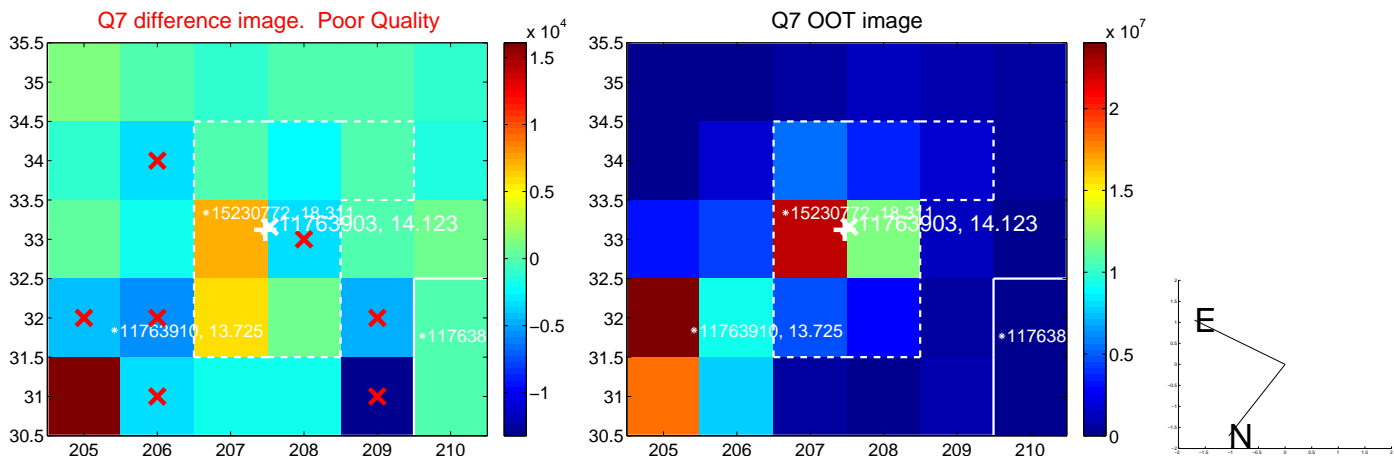
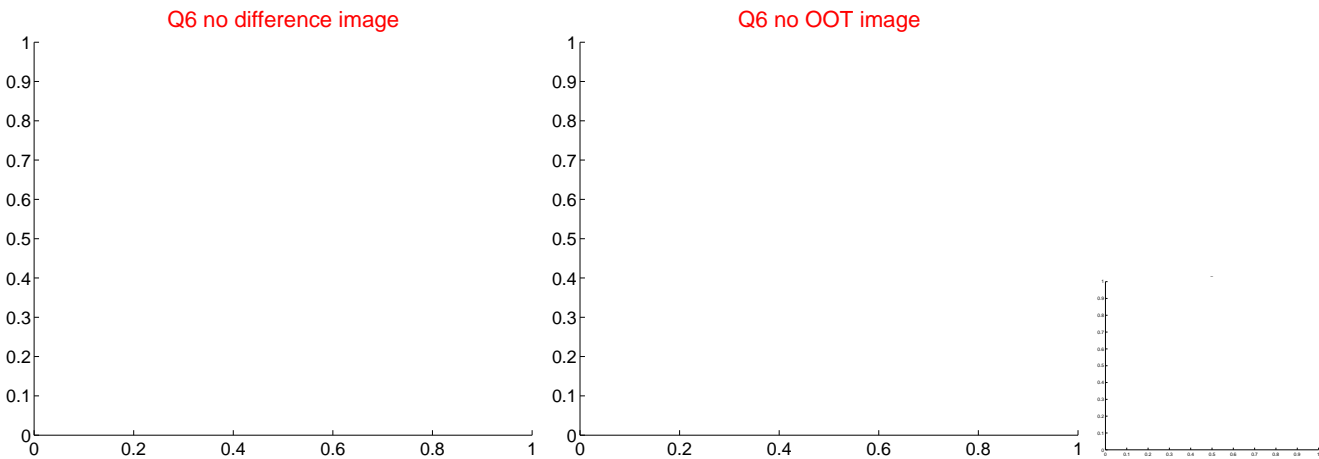
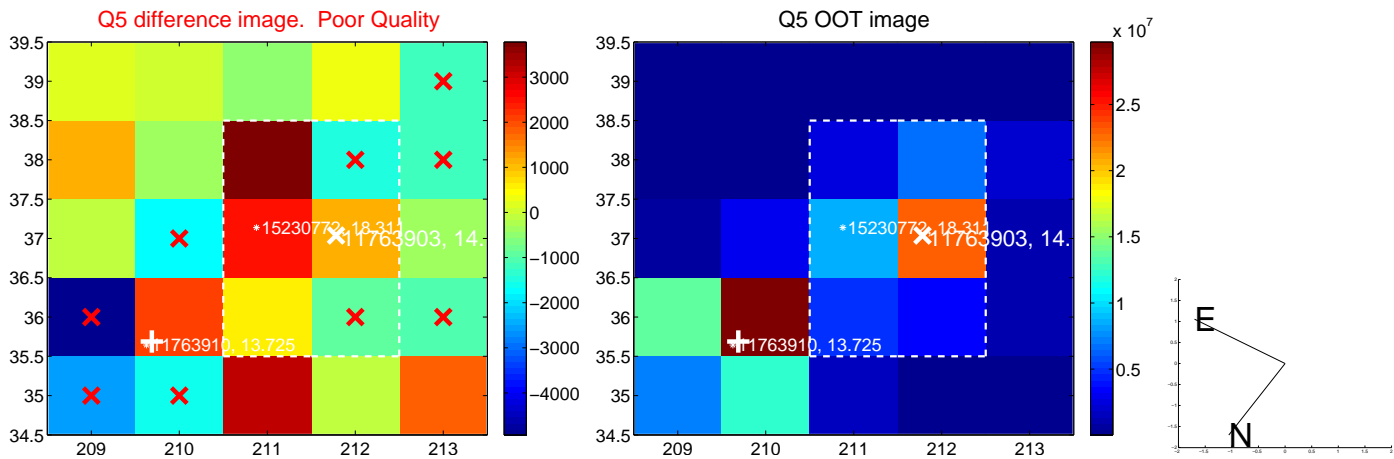


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

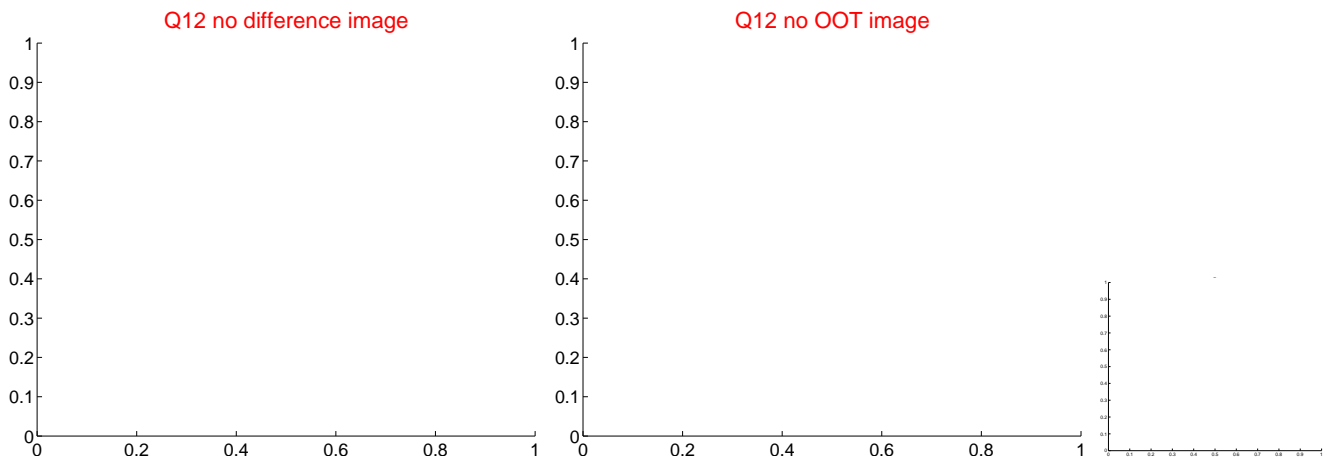
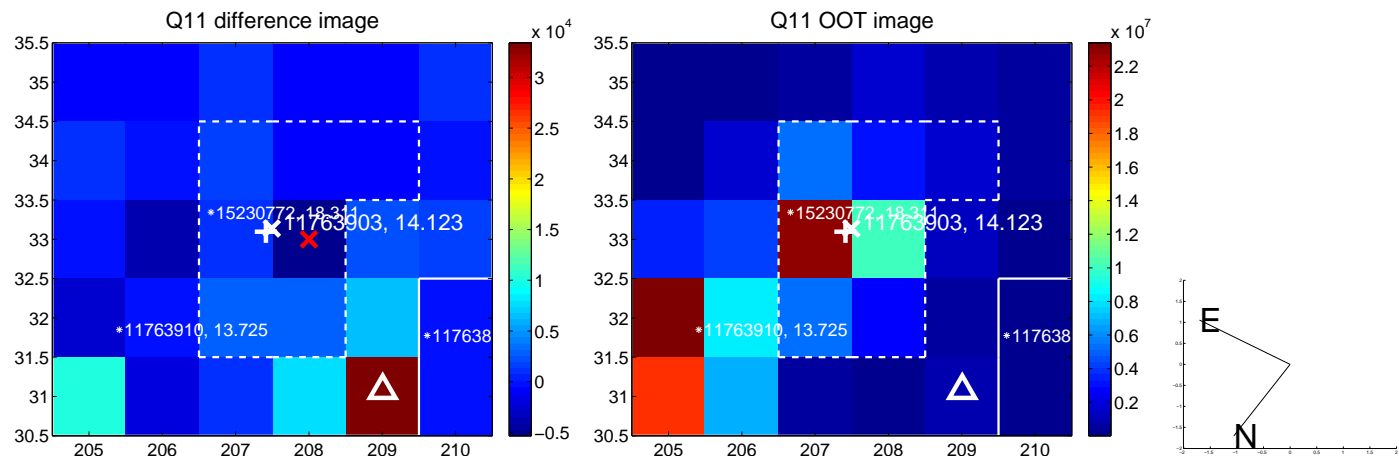
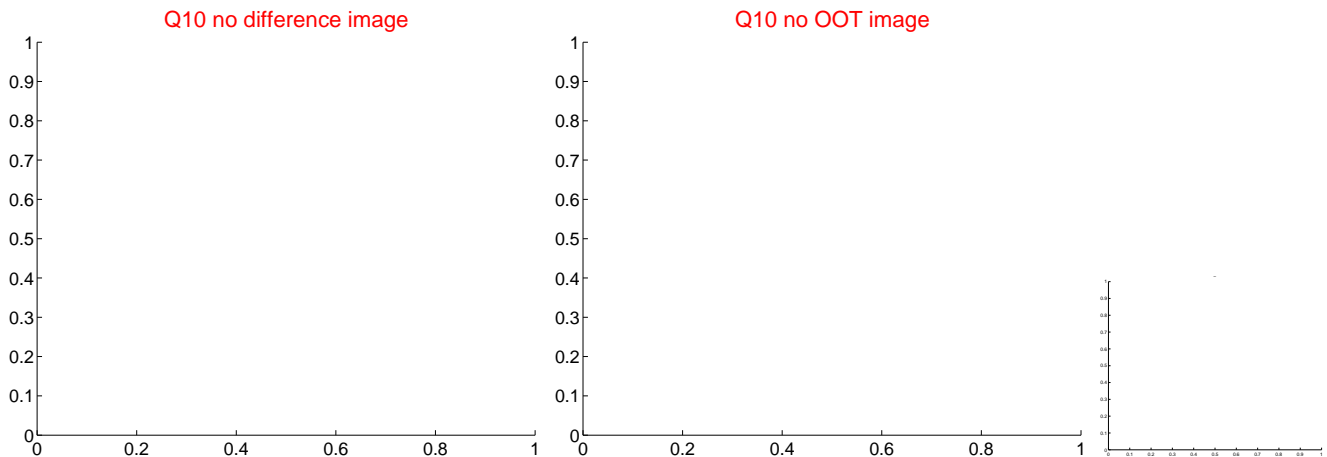
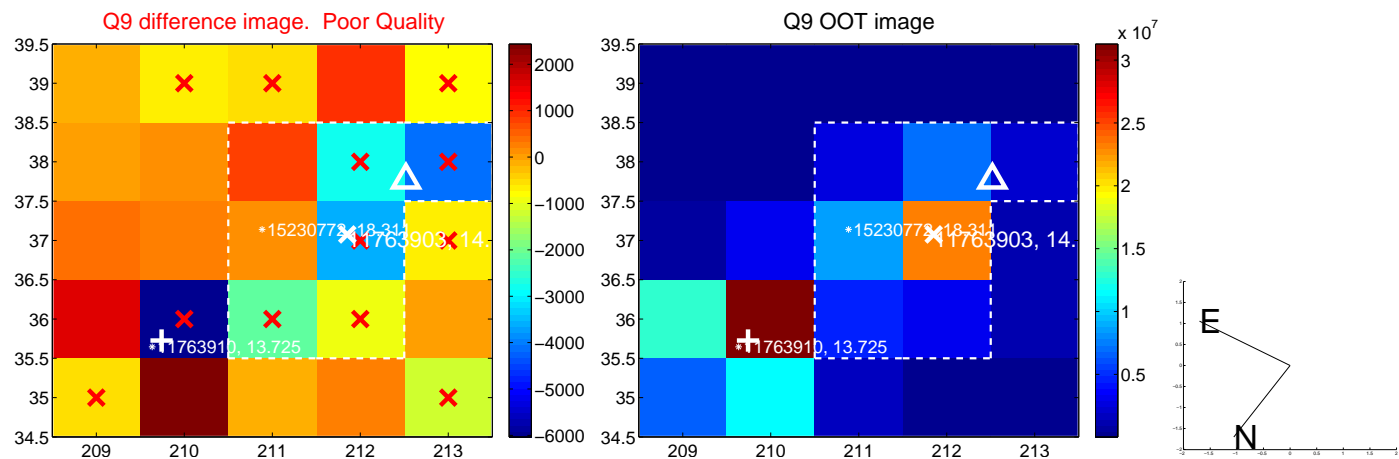
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



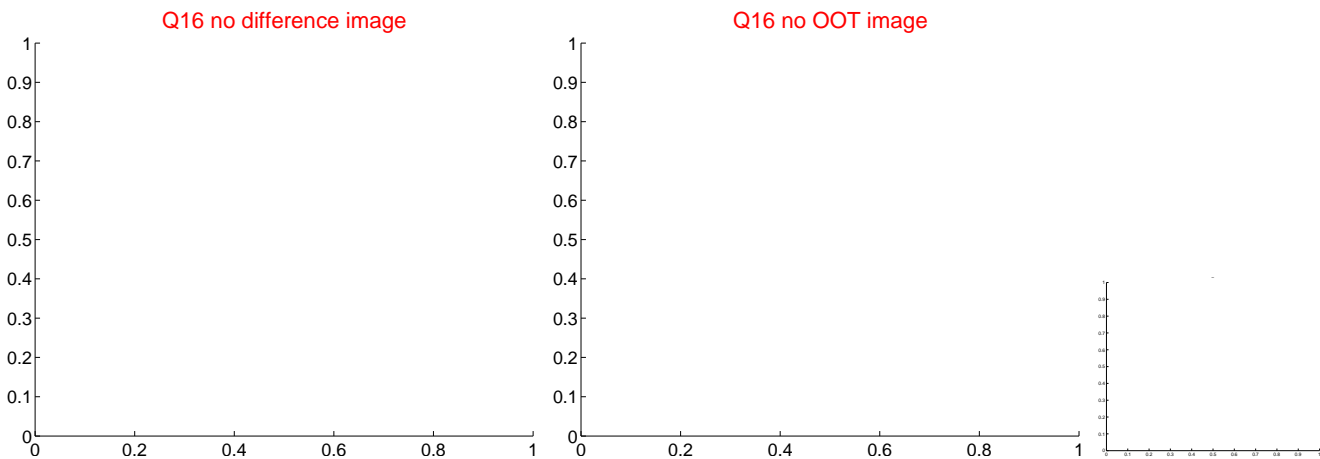
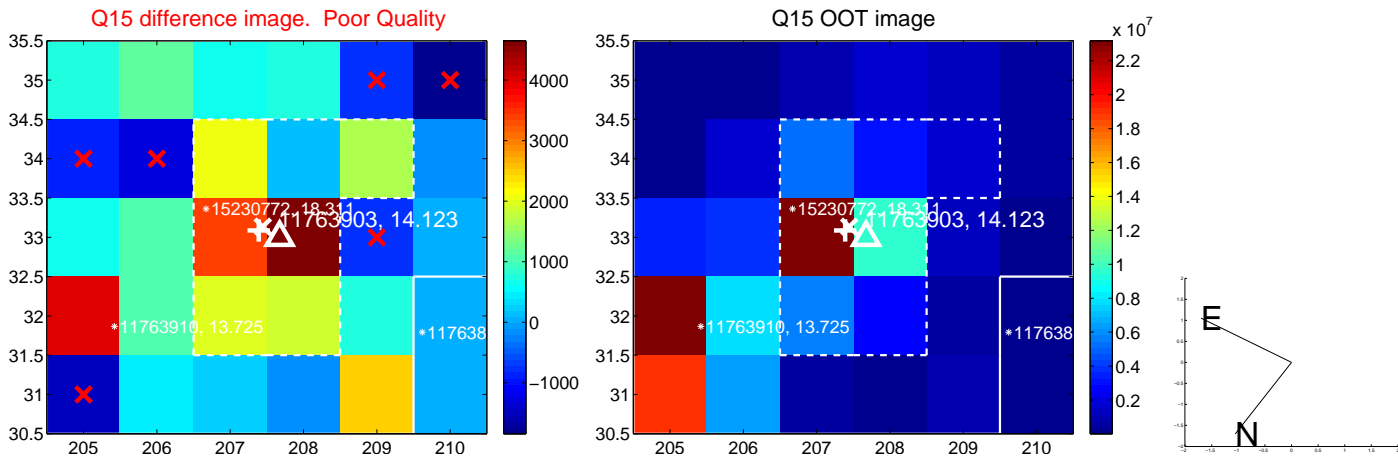
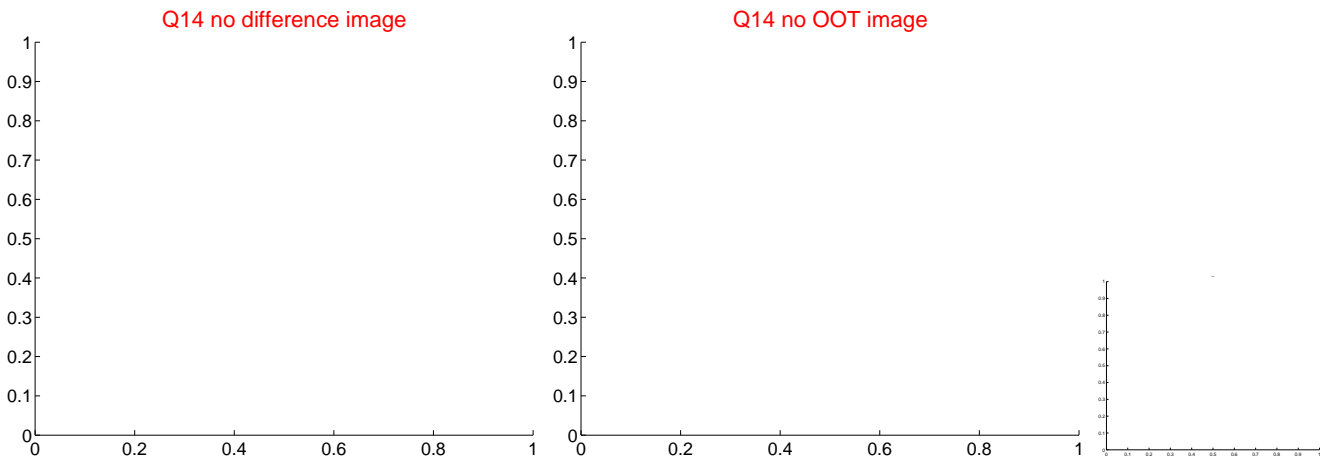
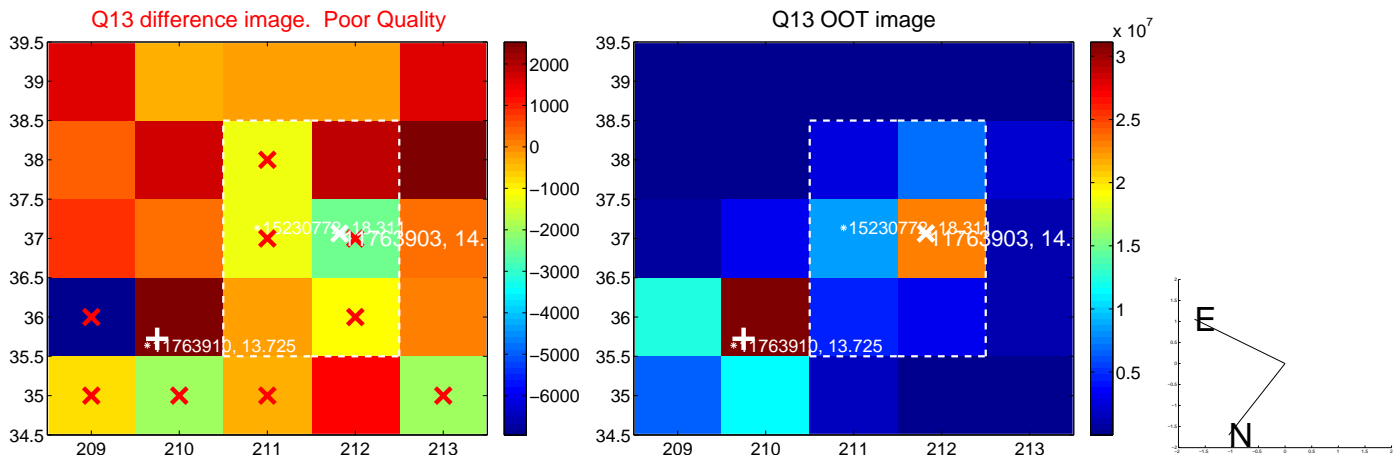
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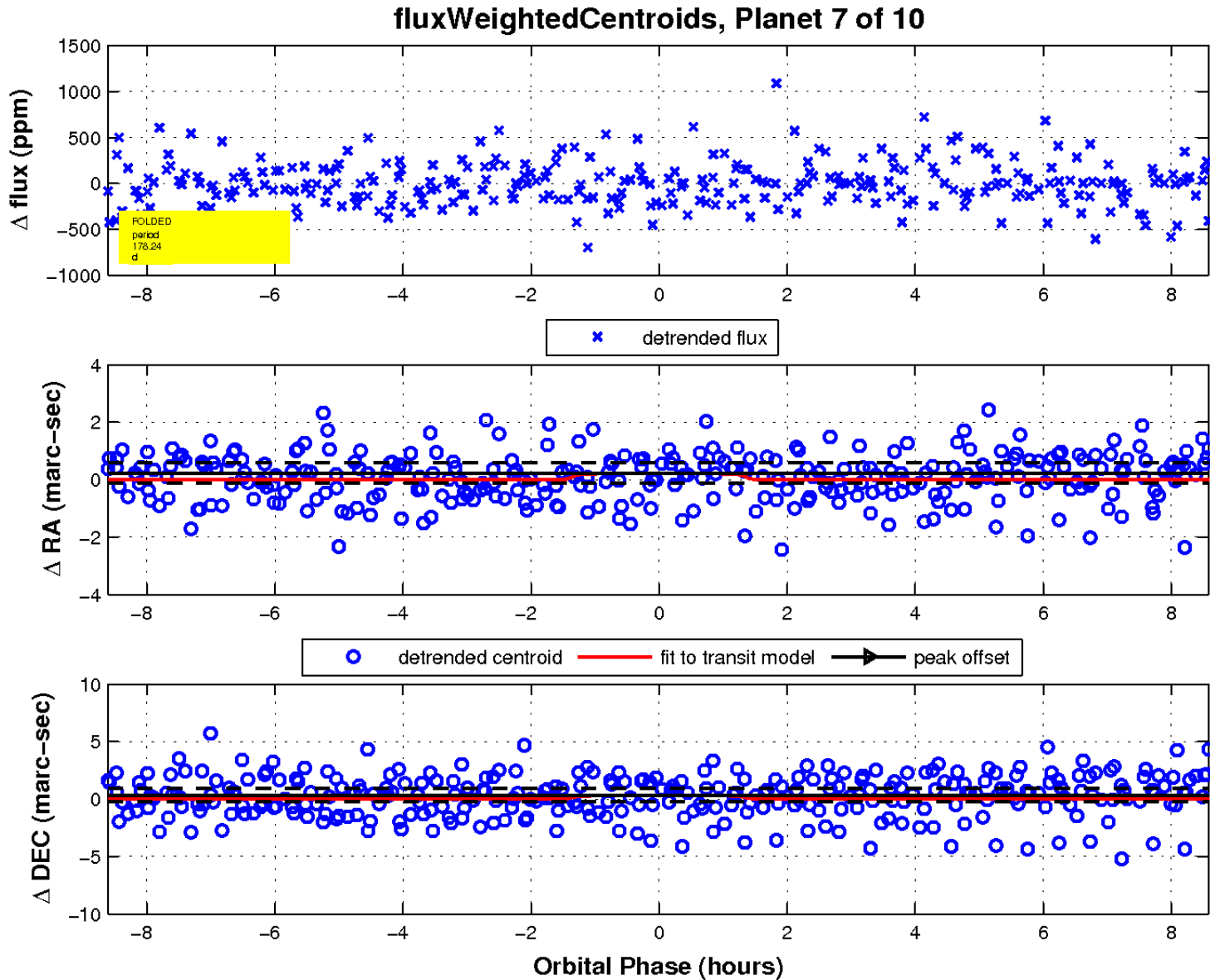
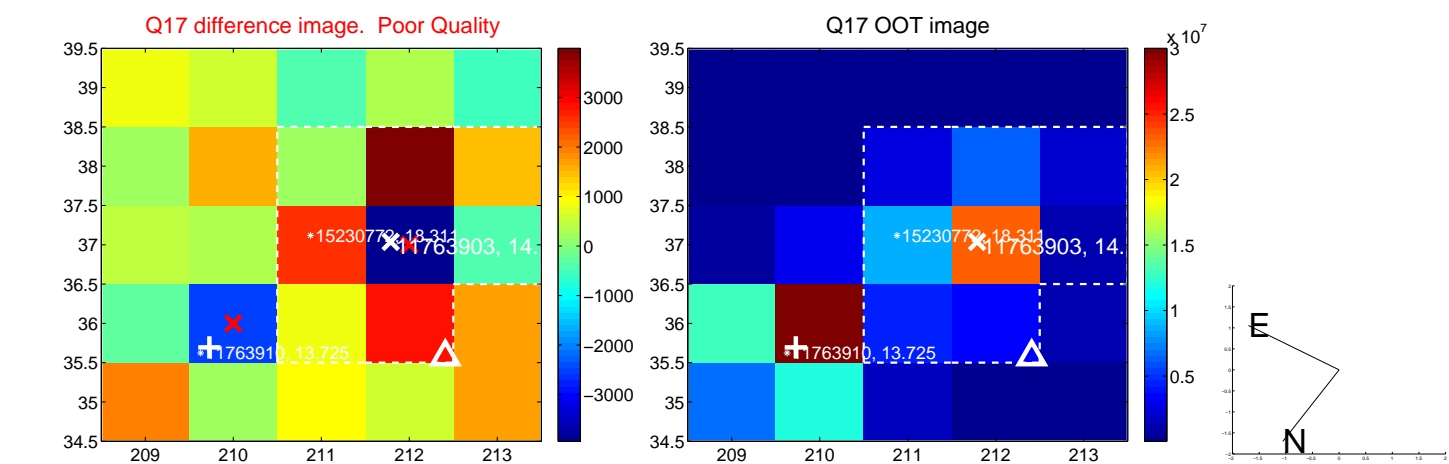
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

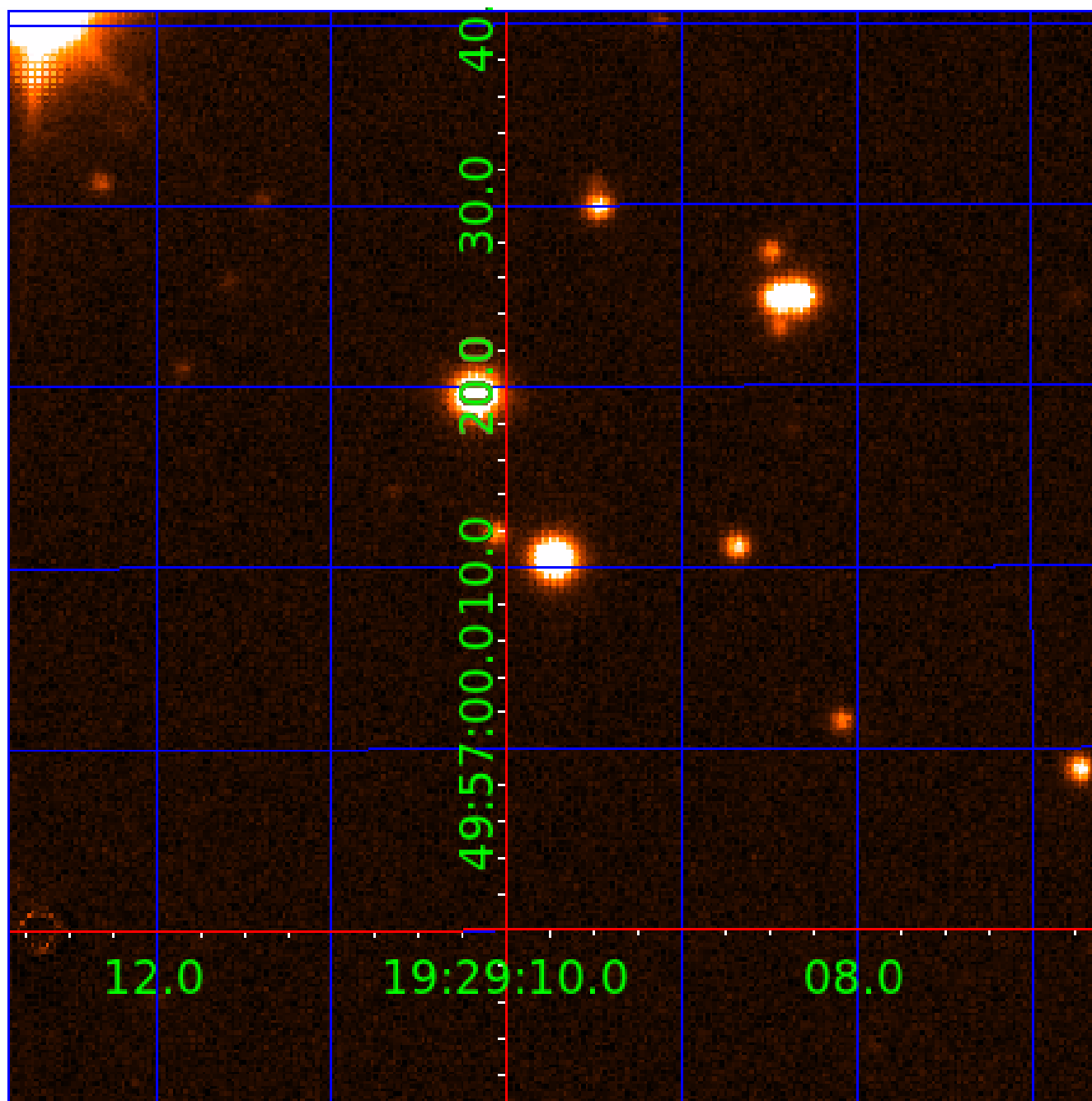


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

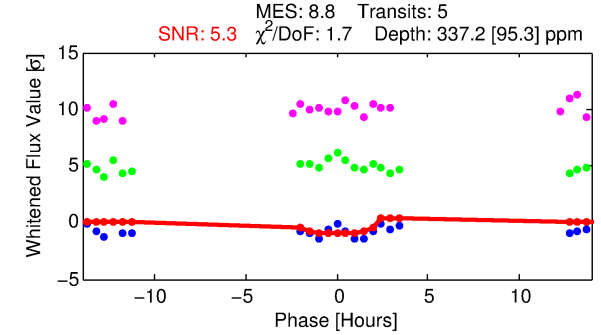
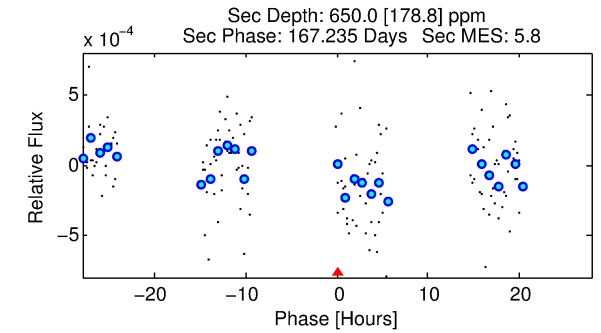
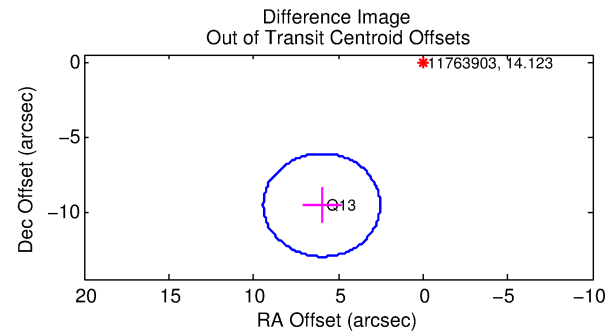
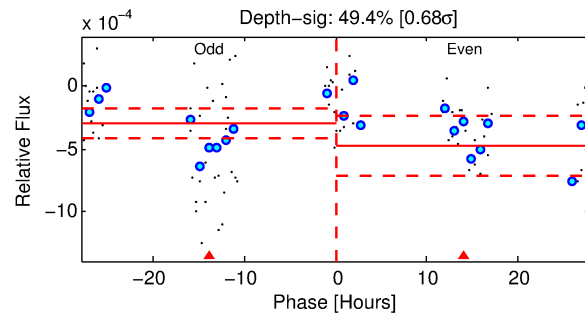
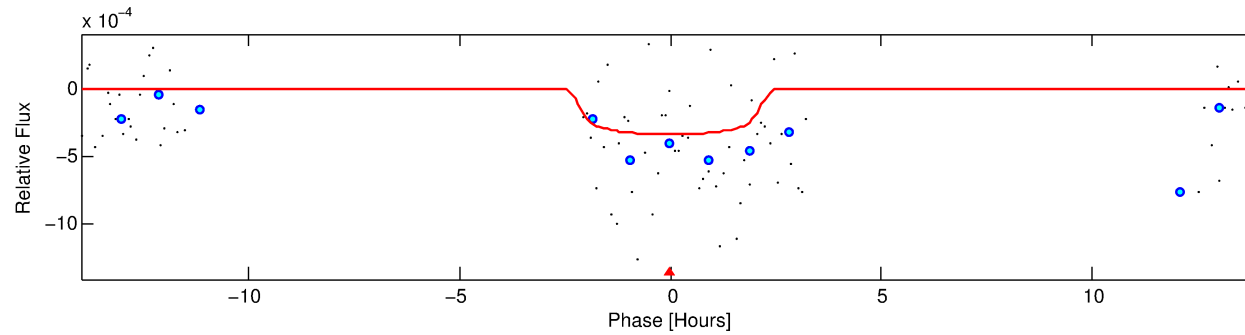
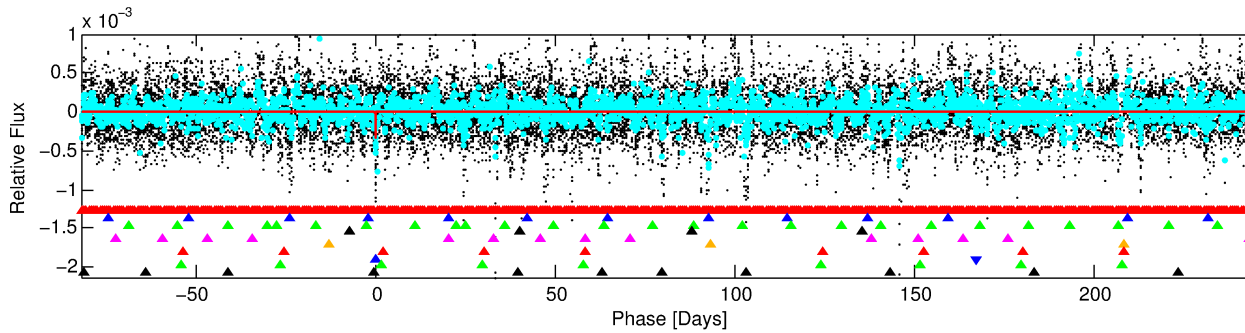
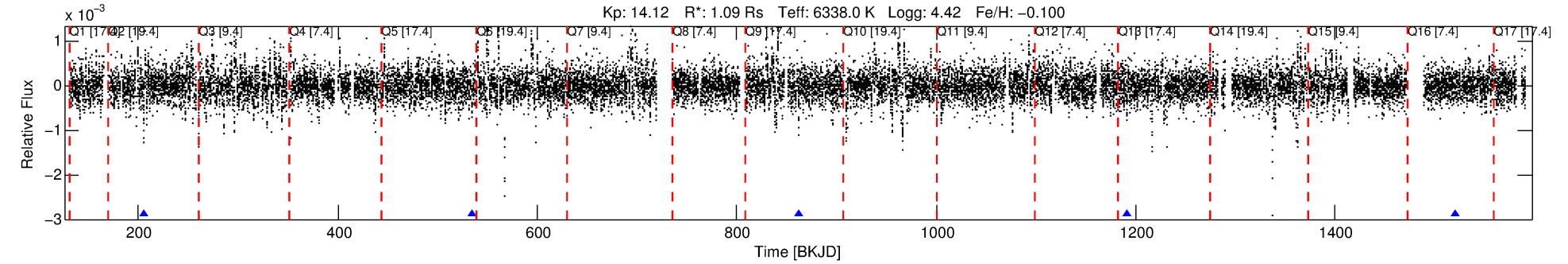
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-08

No Significant Match Found

DV One-Page Summary

KIC: 11763903 Candidate: 8 of 10 Period: 328.522 d



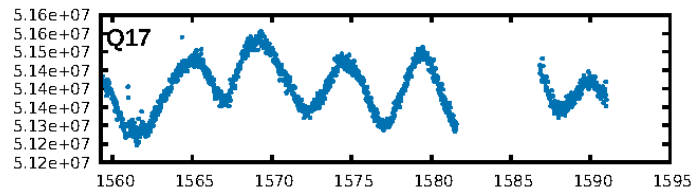
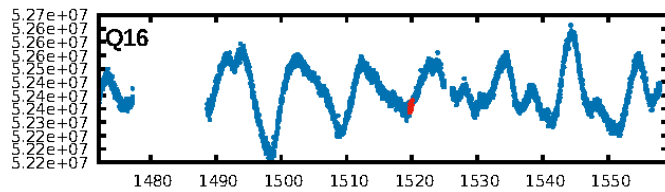
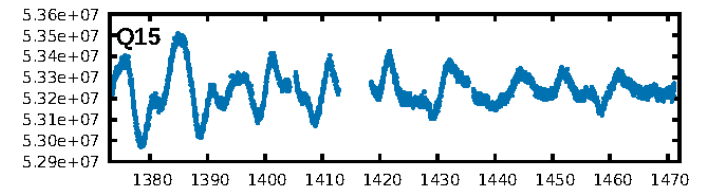
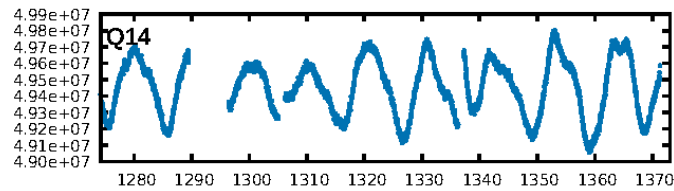
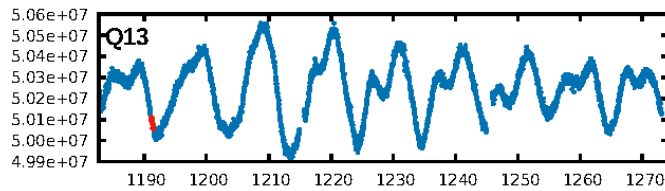
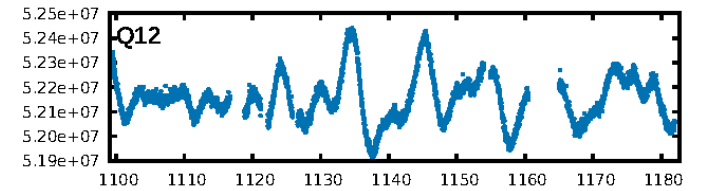
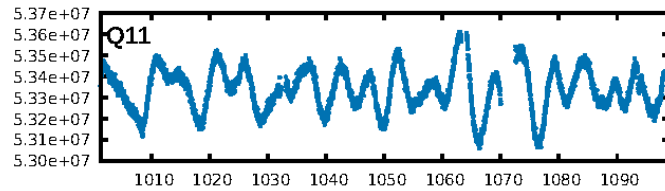
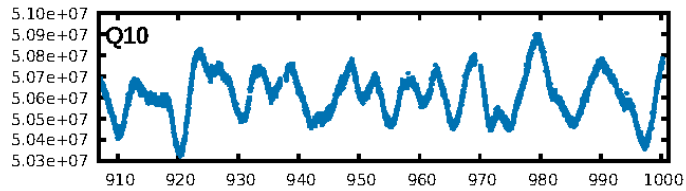
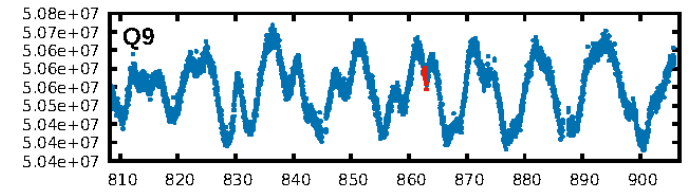
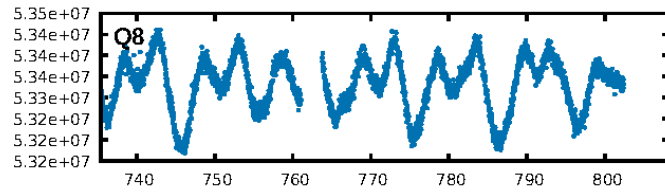
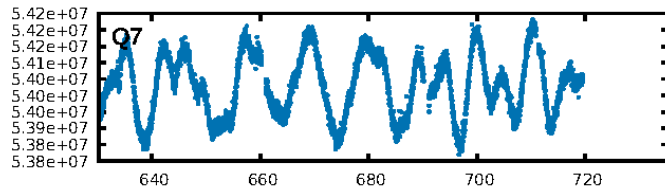
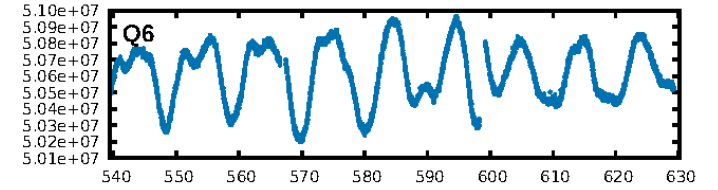
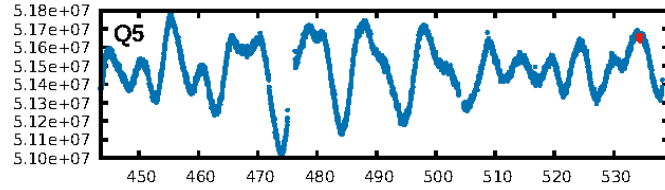
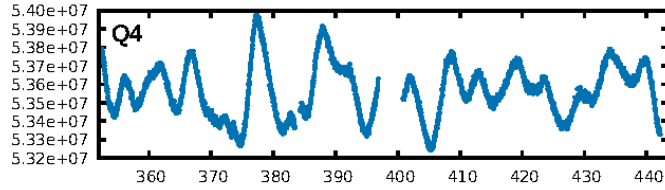
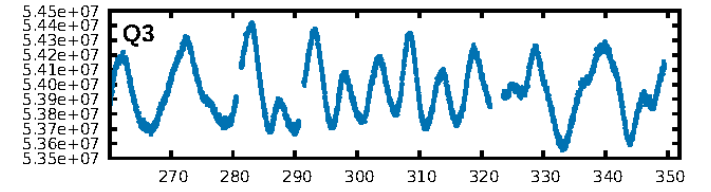
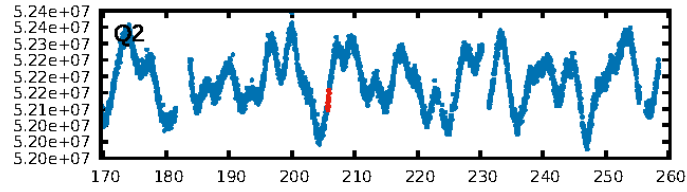
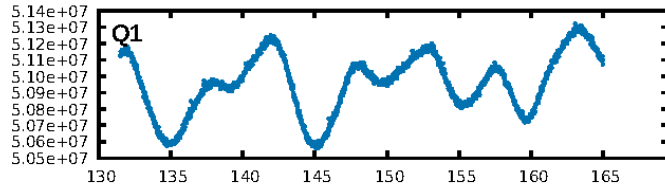
DV Fit Results:

Period = 328.52244 [0.00664] d
Epoch = 205.7814 [0.0184] BKJD
Rp/R* = 0.0192 [0.0141]
a/R* = 295.01 [1121.82]
b = 0.86 [1.16]
Seff = 1.82 [0.70]
Teq = 296 [28] K
Rp = 2.28 [1.81] Re
a = 0.9727 [0.2443] AU
Ag = 64946.39 [99907.62] [0.65 σ]
Teffp = 7309 [2743] K [2.56 σ]

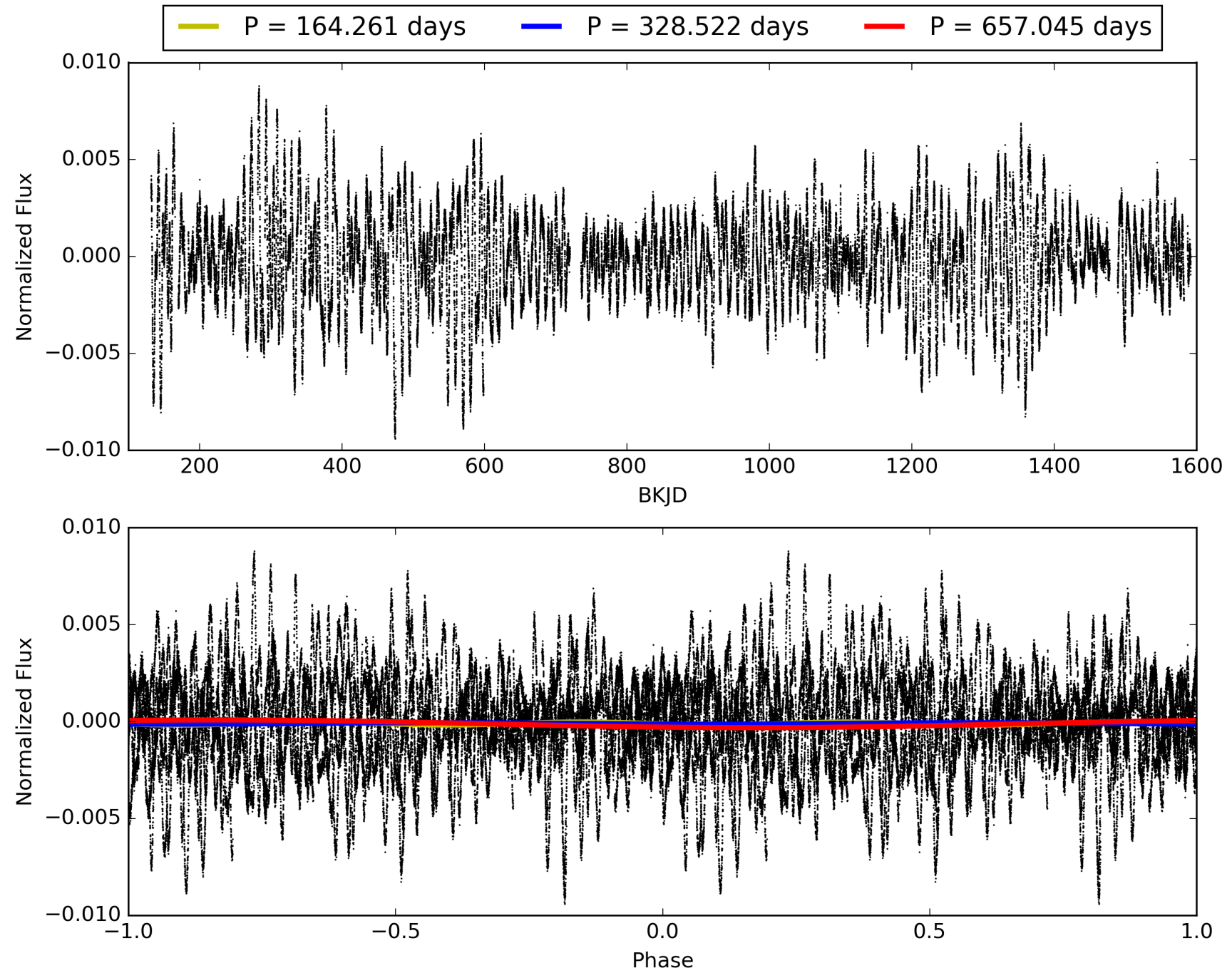
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [434.37 σ]
LongPeriod-sig: 100.0% [104.77 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 42.4%
Bootstrap-pfa: 4.57e-08
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 0.2226
Centroid-sig: 56.4%
Centroid-so: 1.550 arcsec [0.94 σ]
OotOffset-rm: 11.278 arcsec [9.83 σ]
KicOffset-rm: 10.210 arcsec [9.11 σ]
OotOffset-st: 0/0/0/1 [1]
KicOffset-st: 0/0/0/1 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 0.00 [0/5]

TCE 011763903-08, PDC Light Curves

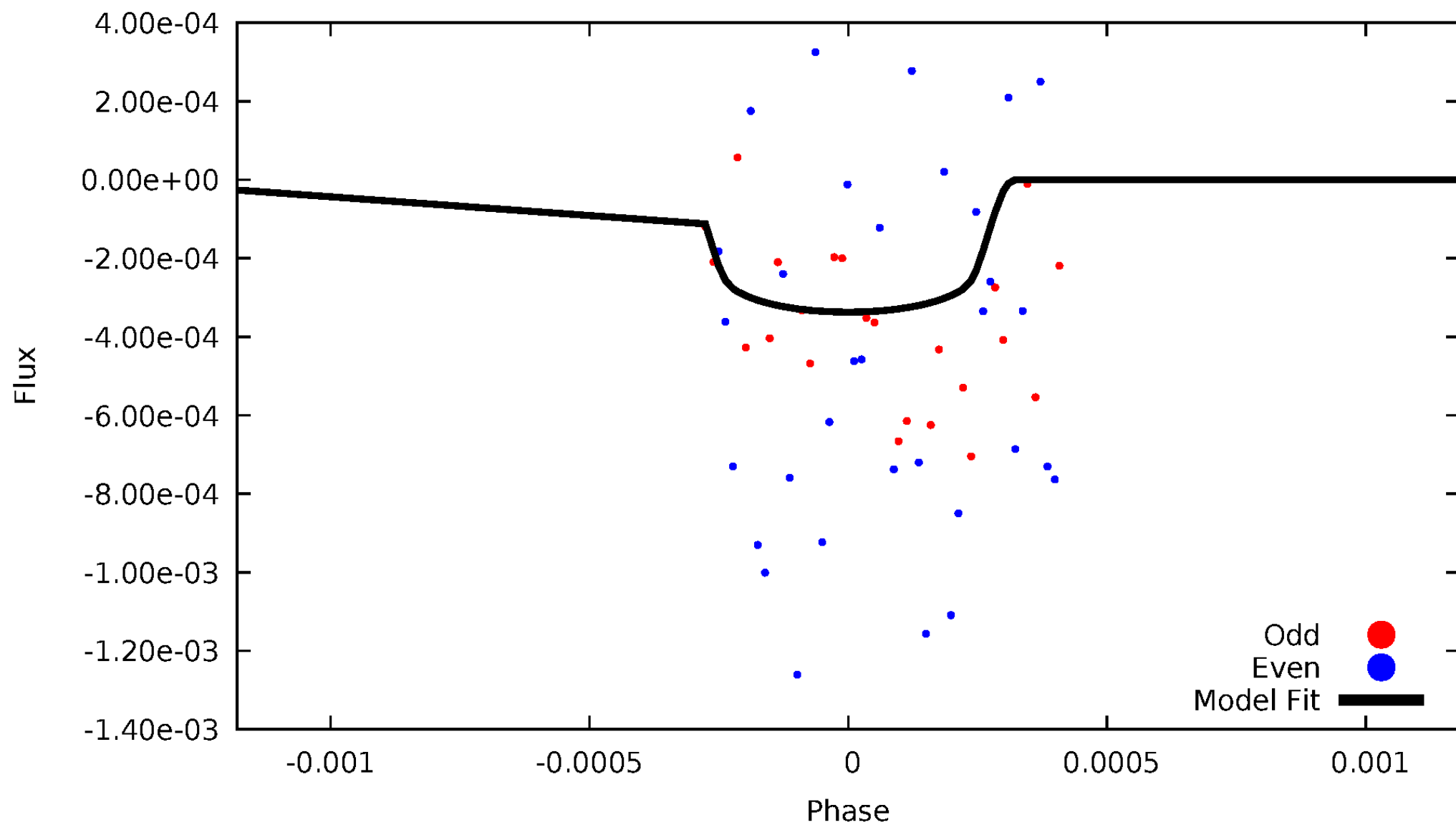


TCE 011763903-08



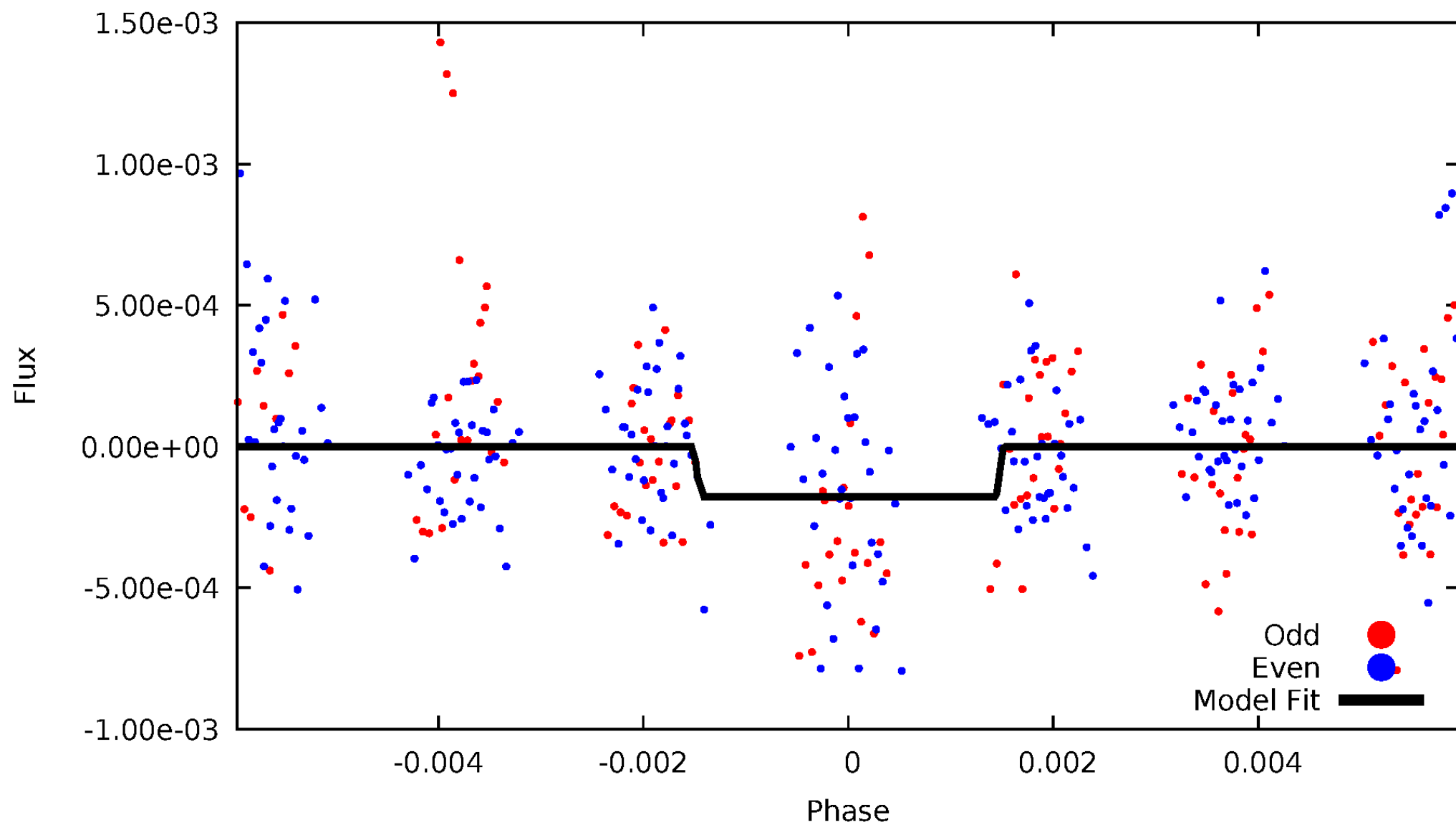
DV Odd/Even

TCE 011763903-08



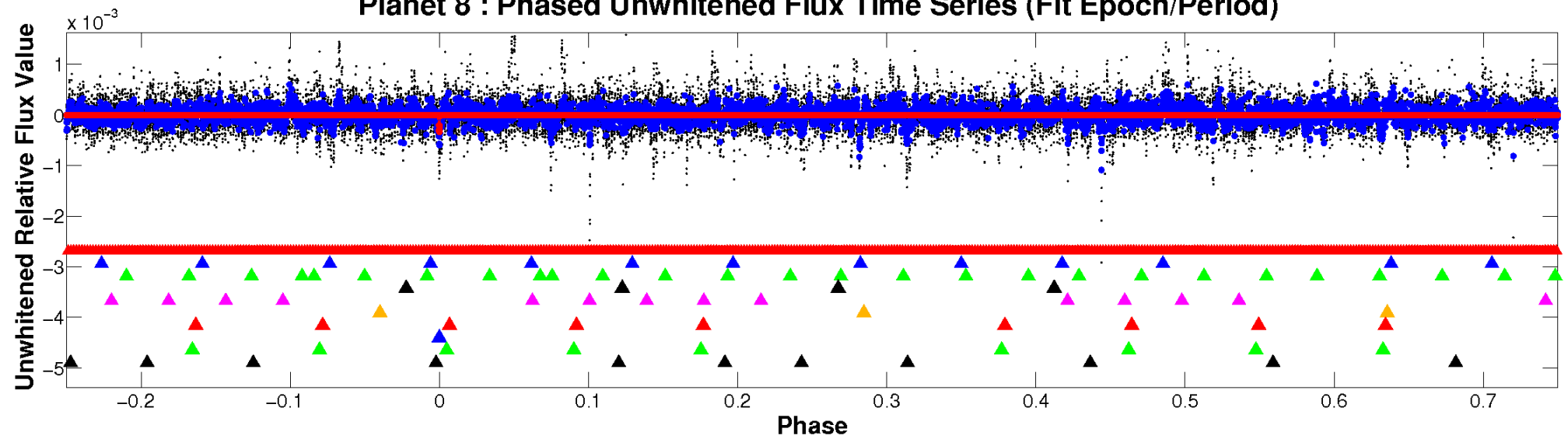
ALT Odd/Even

TCE 011763903-08

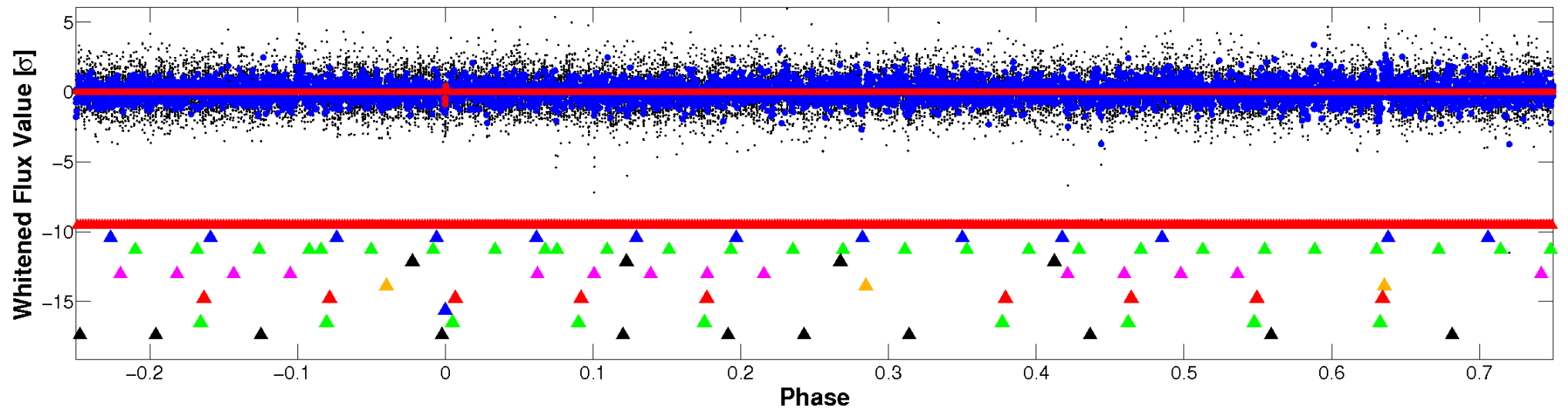


Non-Whitened Vs. Whitened Light Curve

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

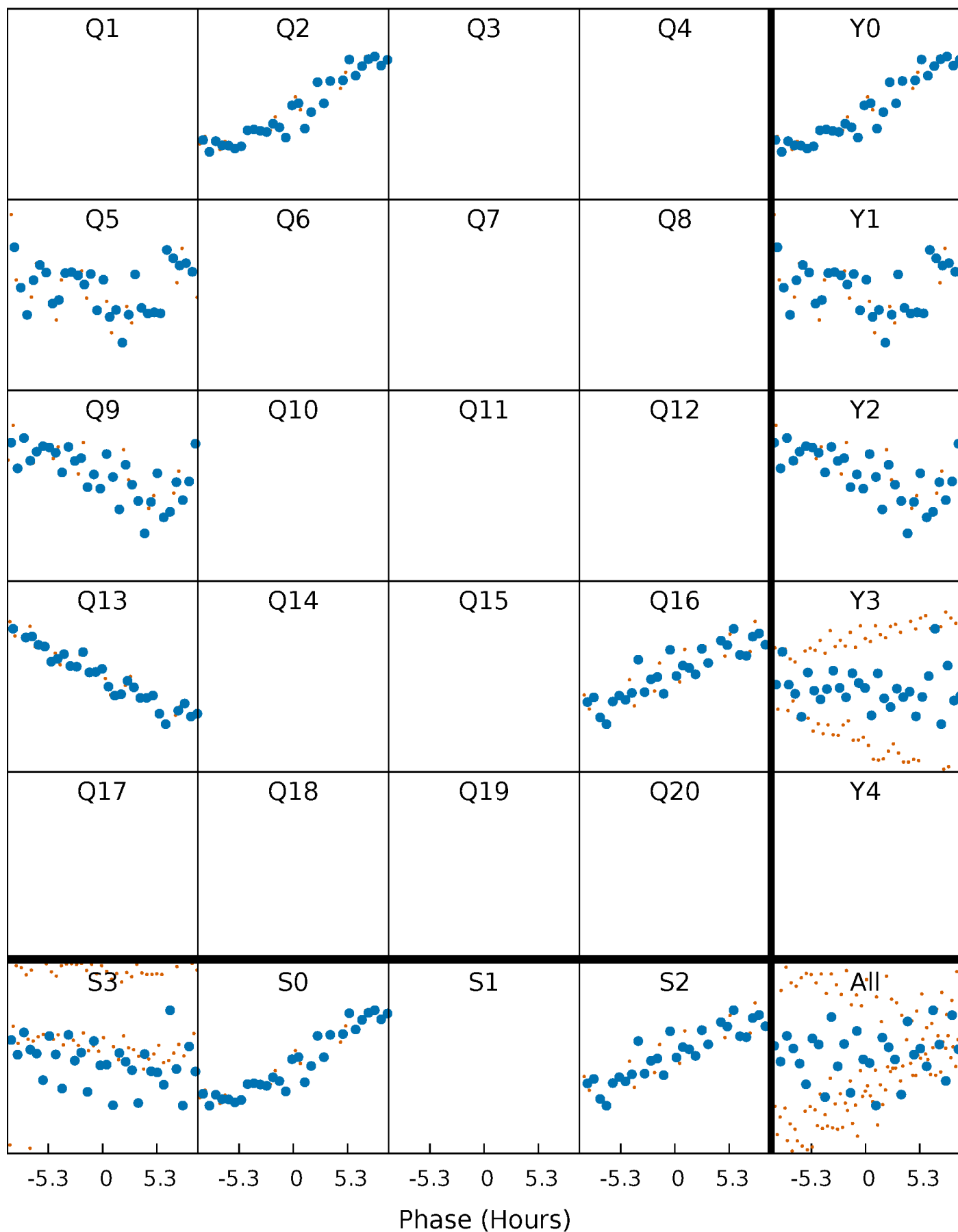


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



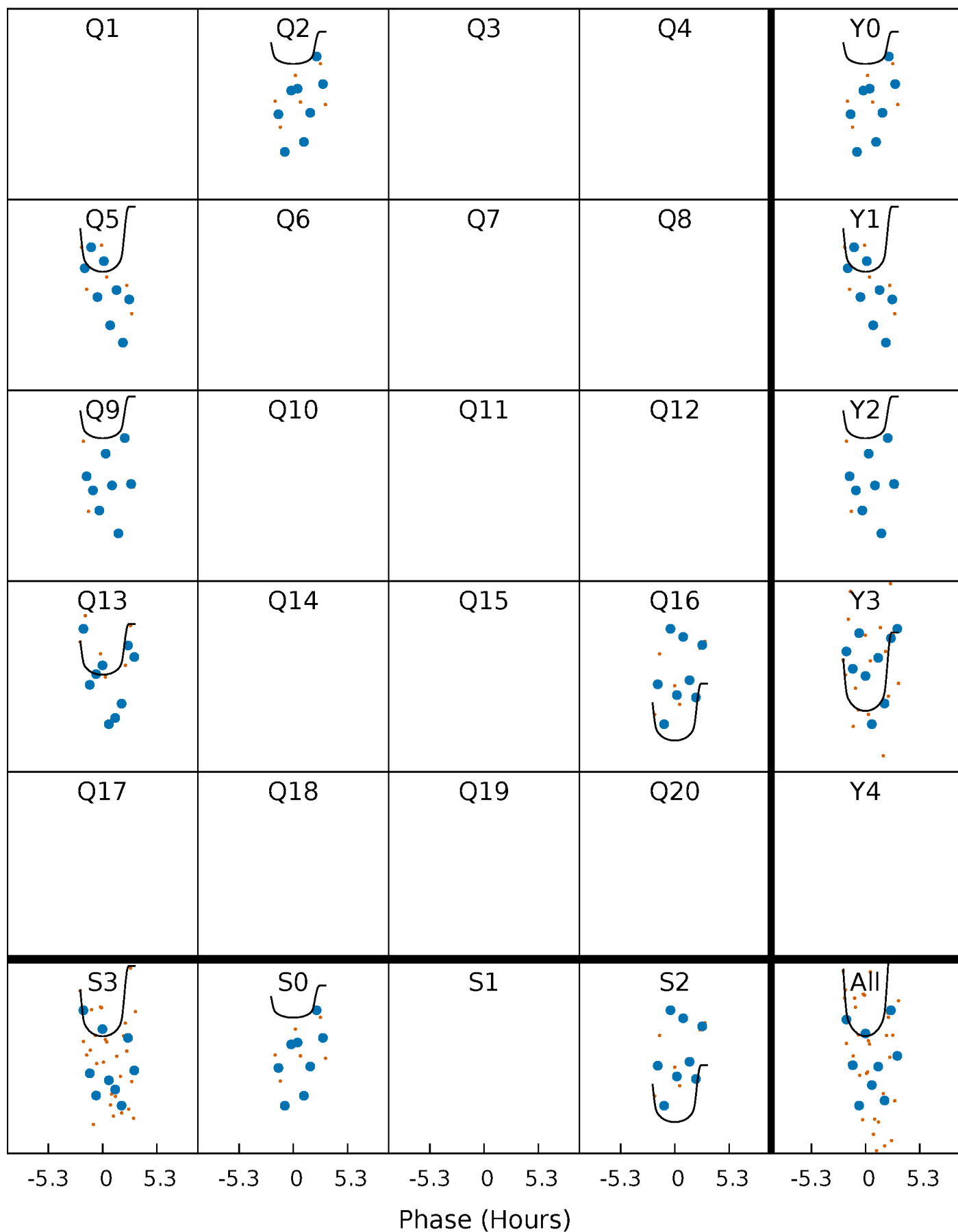
PDC Quarter-Phased Transit Curves

TCE 011763903-08 $P=328.522444$ Days $T_0=205.781399$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 011763903-08 $P=328.522444$ Days $T_0=205.781399$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

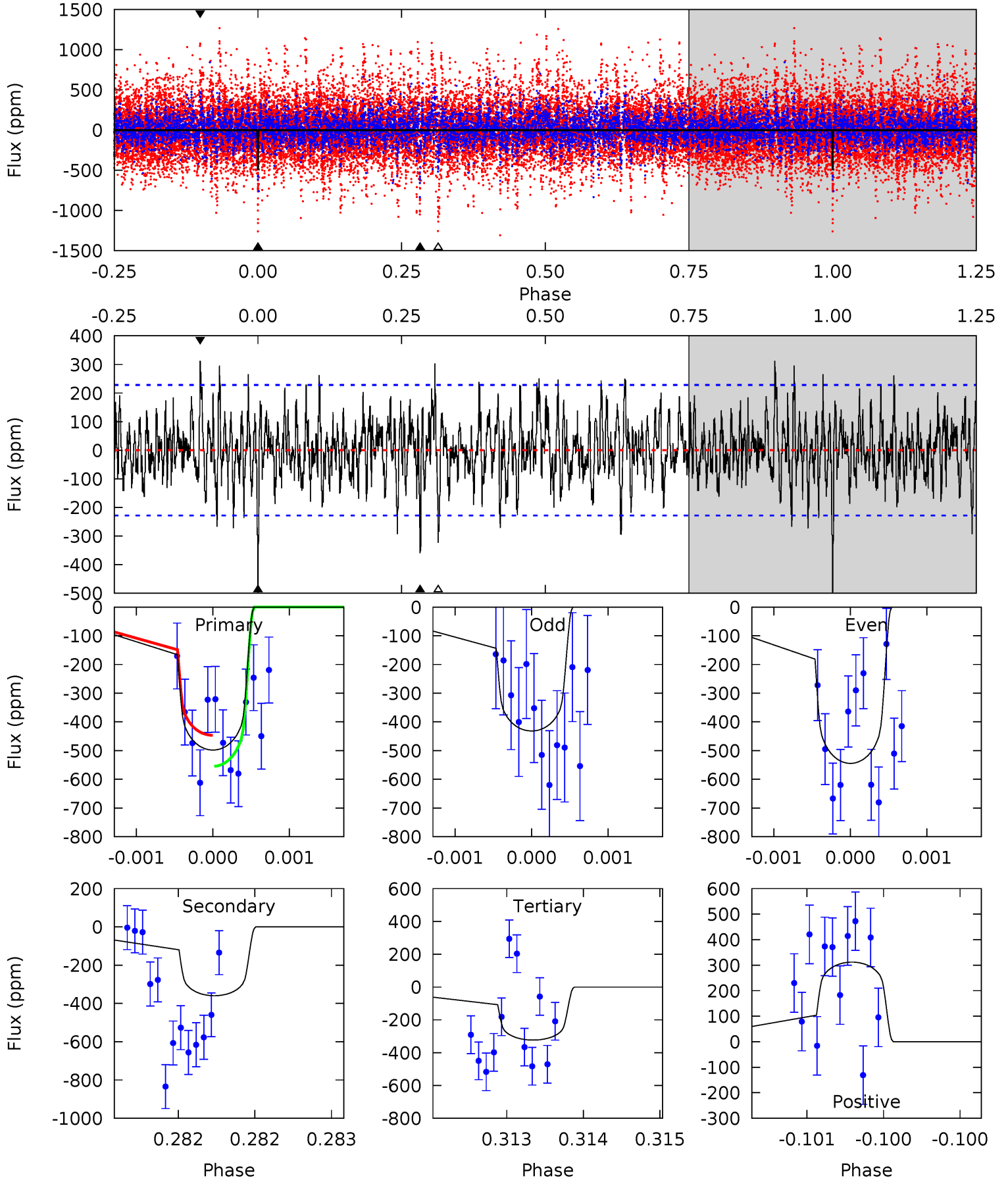
TCE 011763903-08 P=328.558022 Days $T_0=205.741523$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-08, P = 328.522444 Days, E = 205.781399 Days

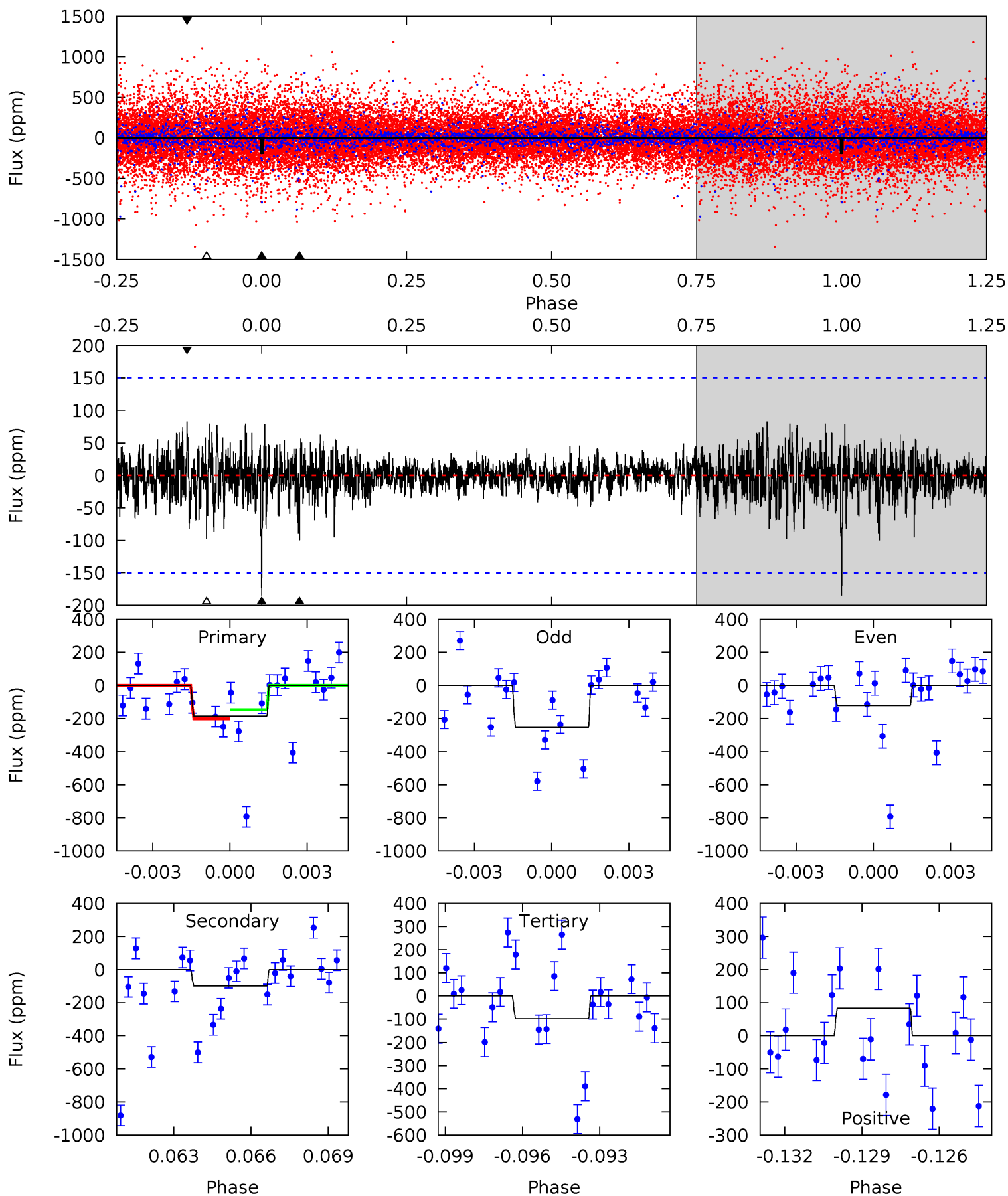
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.1	8.73	7.85	7.58	5.54	3.43	2.21	4.25	4.52	0.89	1.16	1.31	1.13	0.39	1.31



Alt Model-Shift Uniqueness Test

011763903-08, P = 328.558022 Days, E = 205.741523 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.44	3.48	3.40	2.89	5.25	2.97	0.72	3.04	3.55	0.07	0.59	2.24	1.39	0.31	0.95



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-08 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-360 ± 41	$2.59^{+1.84}_{-1.47}$	422^{+29}_{-20}	6005^{+3894}_{-1197}	$26947^{+113956}_{-17203}$
Alt.	-100 ± 29	$2.10^{+1.67}_{-1.27}$	420^{+31}_{-20}	4938^{+2785}_{-962}	11772^{+60220}_{-8169}

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 $A_{obs} \gg 1.0$

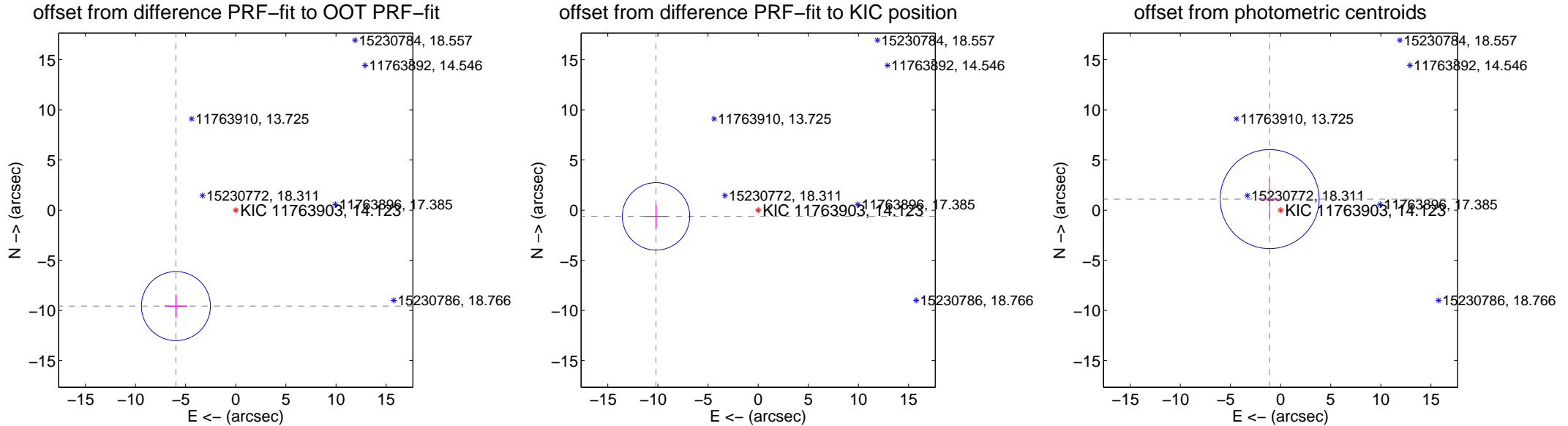
DV Centroid Data

Supplemental centroid analysis for 011763903-08. Kepler magnitude: 14.12. Transit SNR 5.30

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 9.89 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

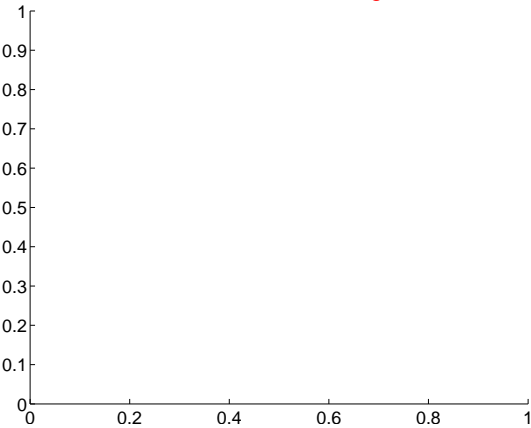
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	11.278 ± 1.147	9.83	5.971 ± 1.120	-9.568 ± 1.158
PRF-fit source offset from KIC position	10.210 ± 1.121	9.11	10.192 ± 1.120	-0.620 ± 1.158
photometric centroid source offset	1.55 ± 1.65	0.94	1.09 ± 1.11	1.10 ± 2.04



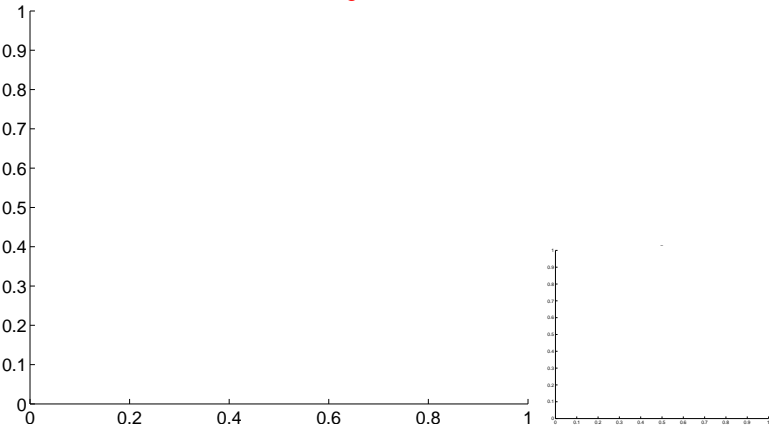
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

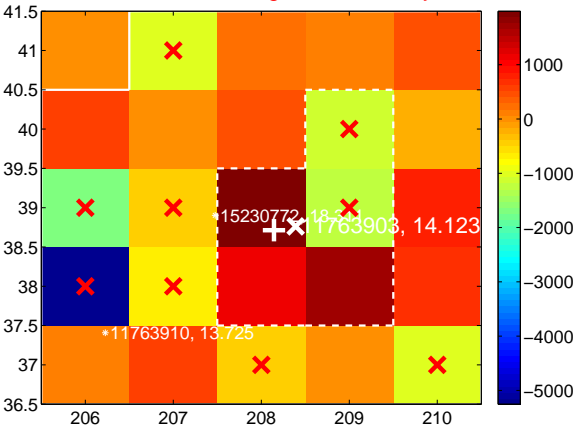
Q1 no difference image



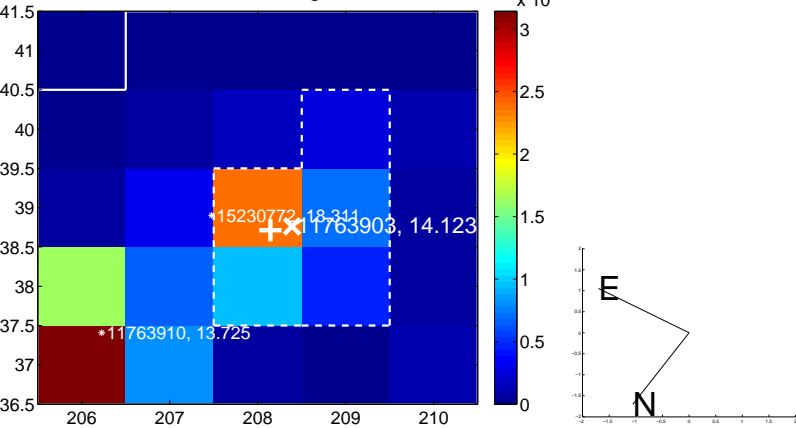
Q1 no OOT image



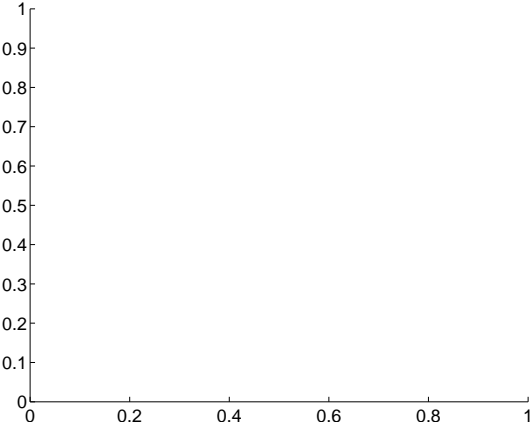
Q2 difference image. Poor Quality



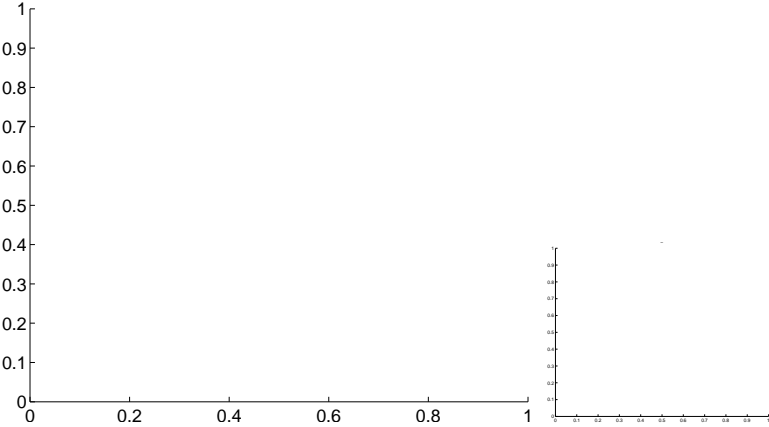
Q2 OOT image



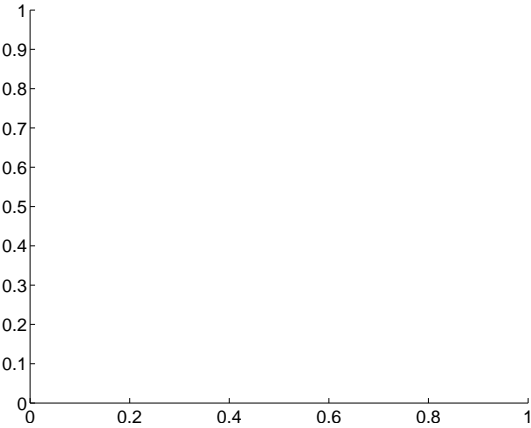
Q3 no difference image



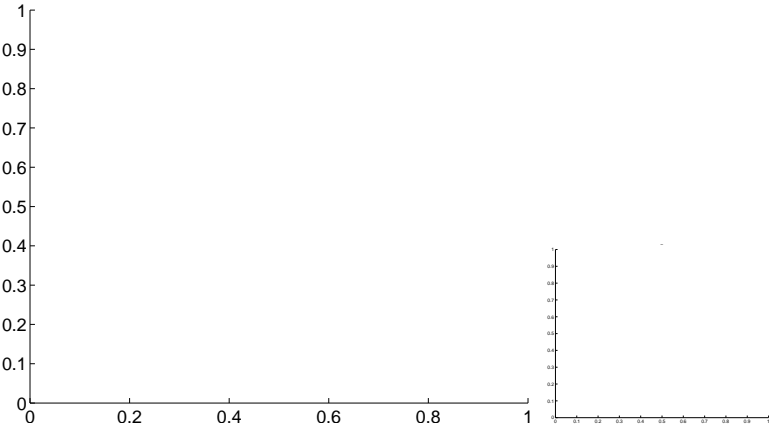
Q3 no OOT image



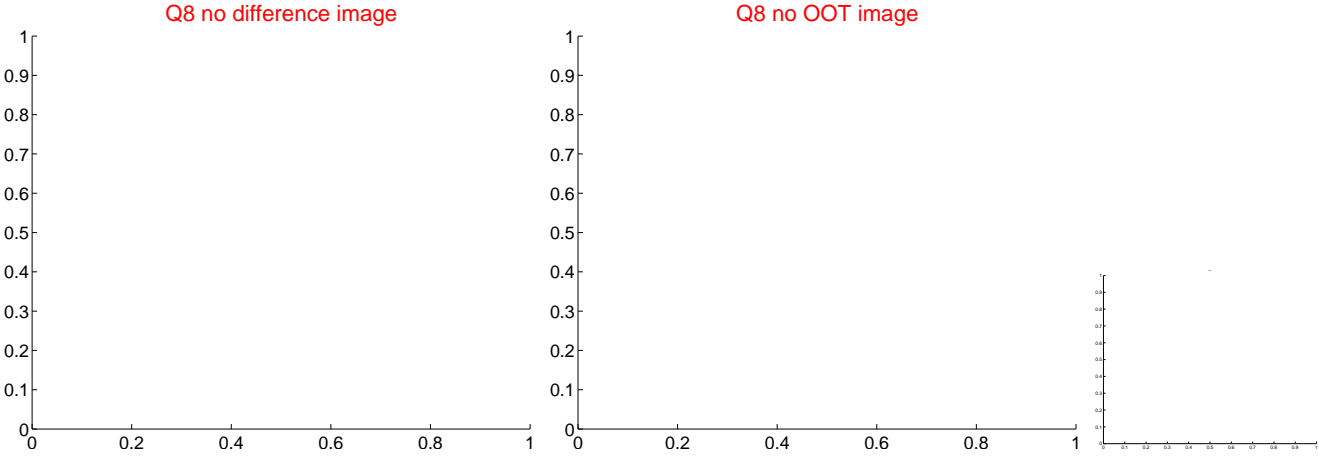
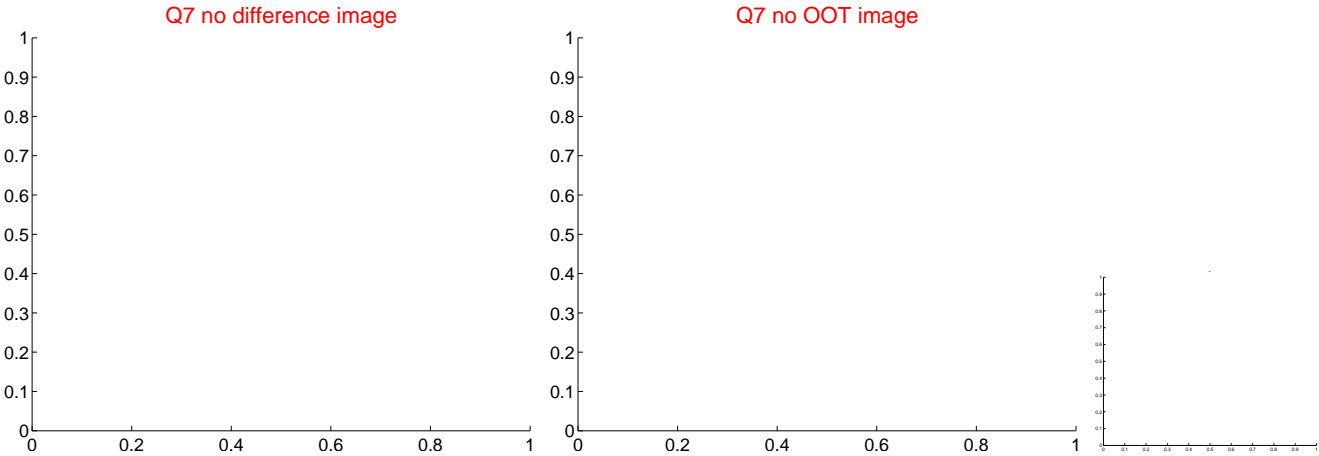
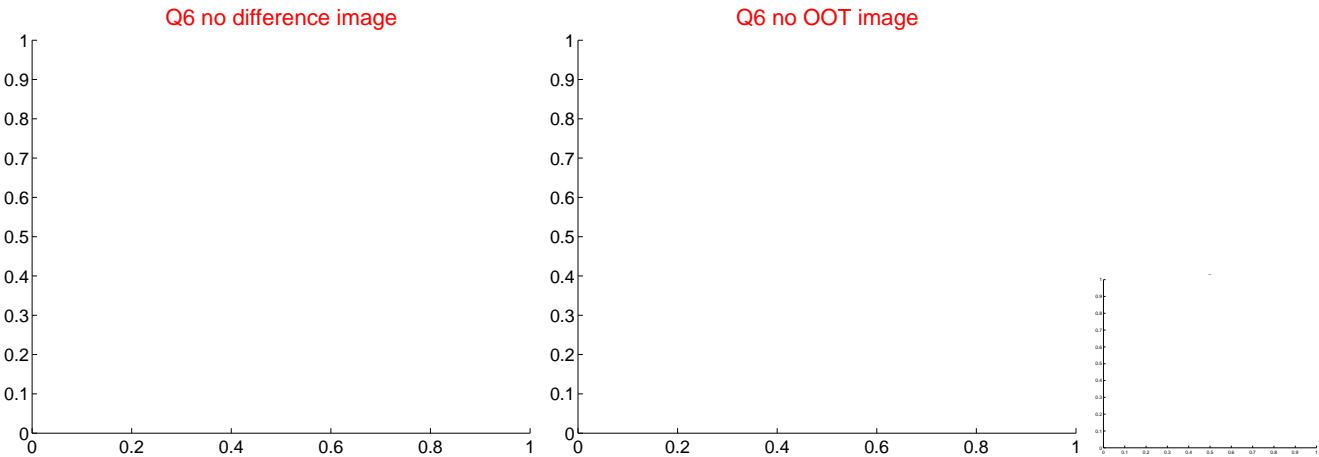
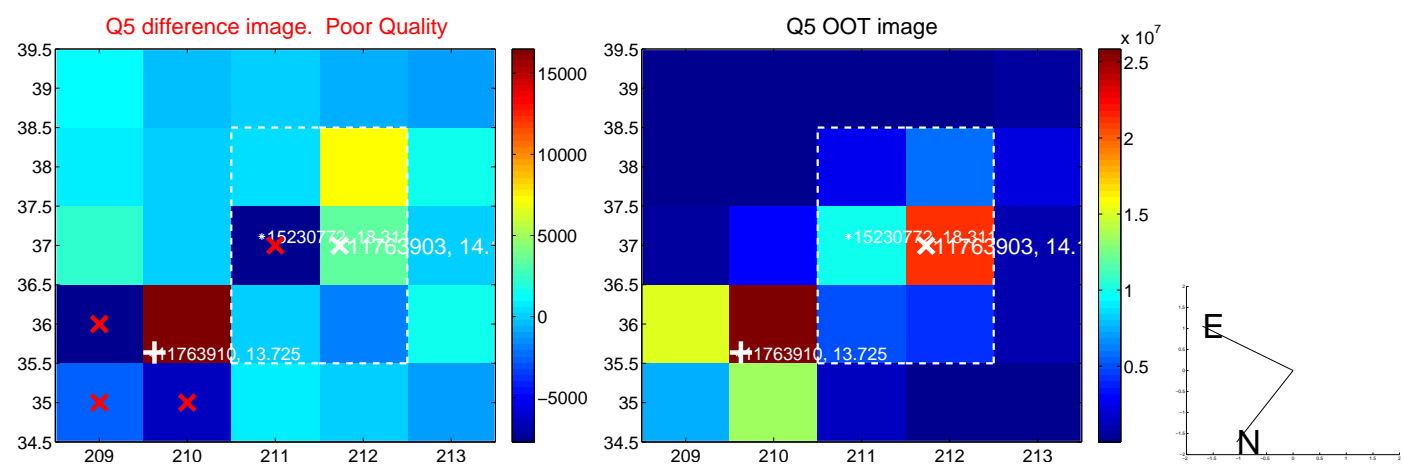
Q4 no difference image



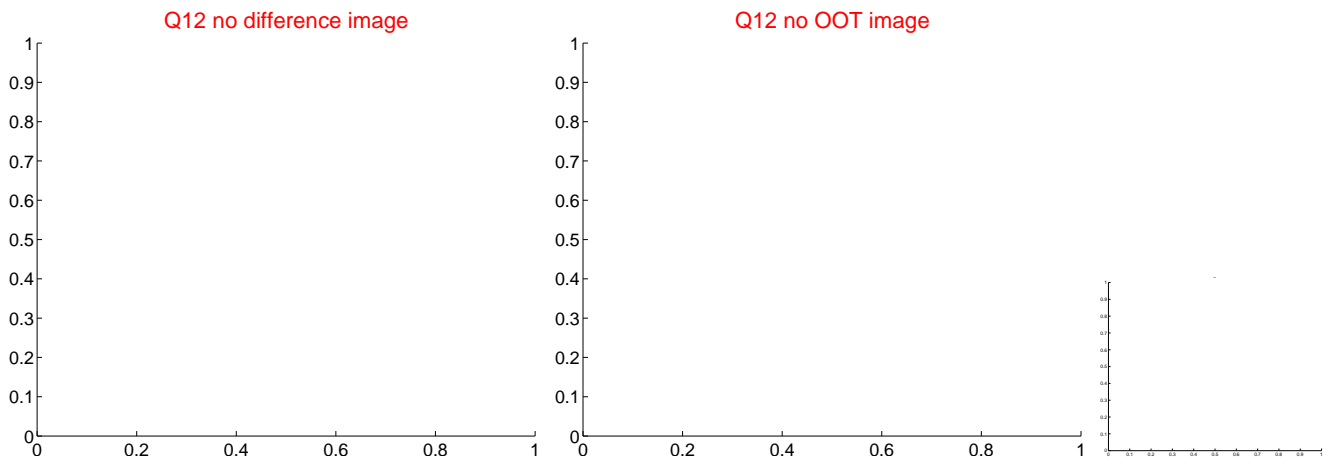
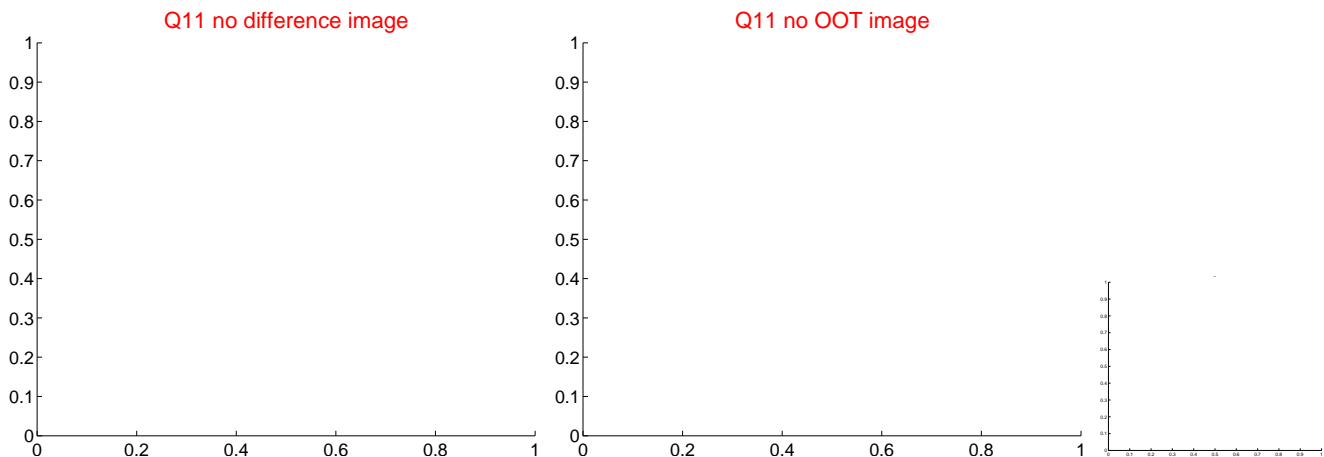
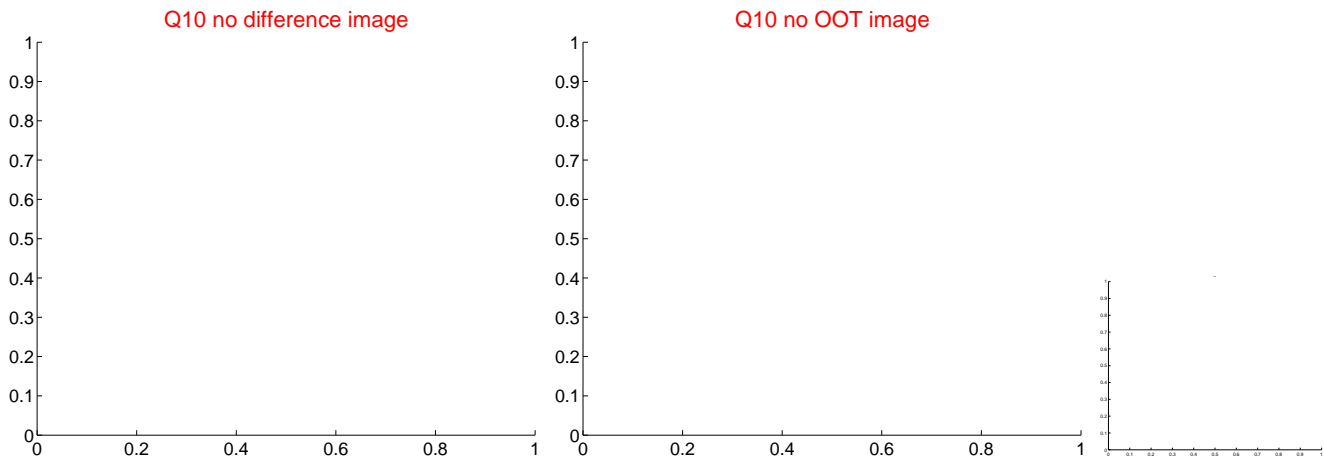
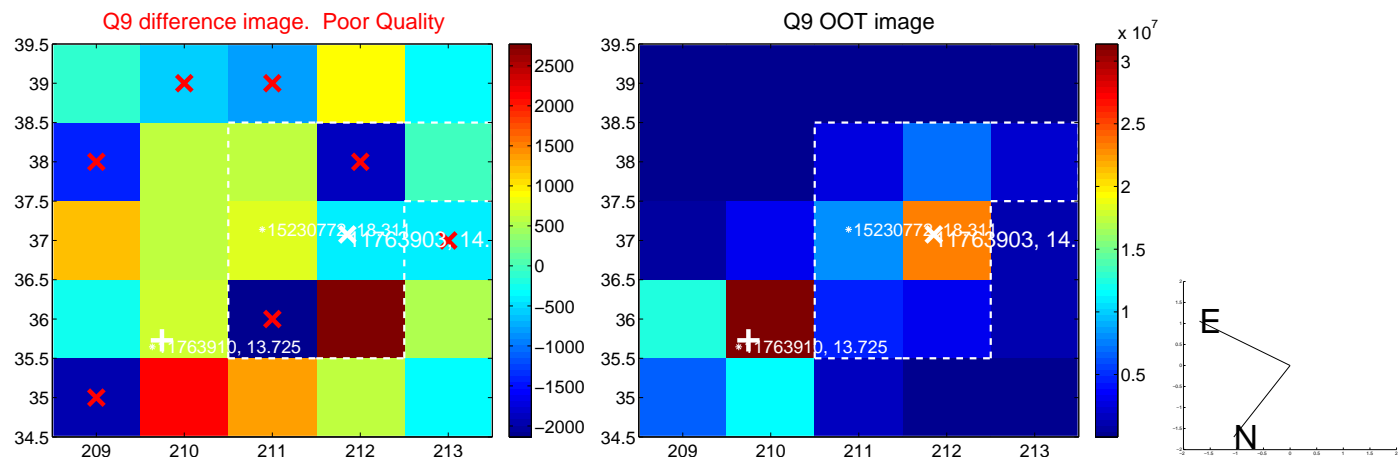
Q4 no OOT image



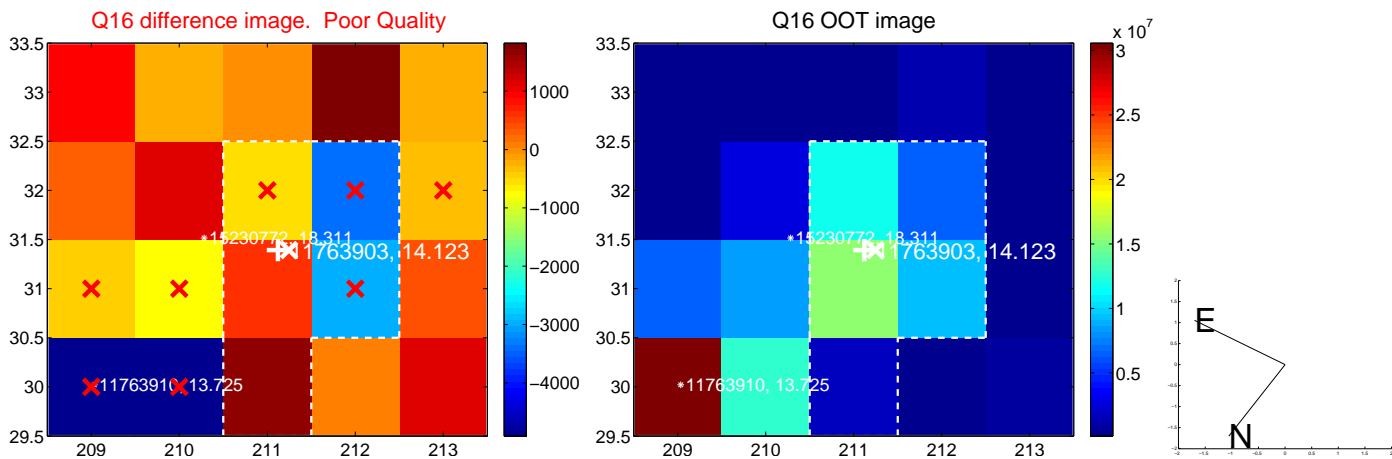
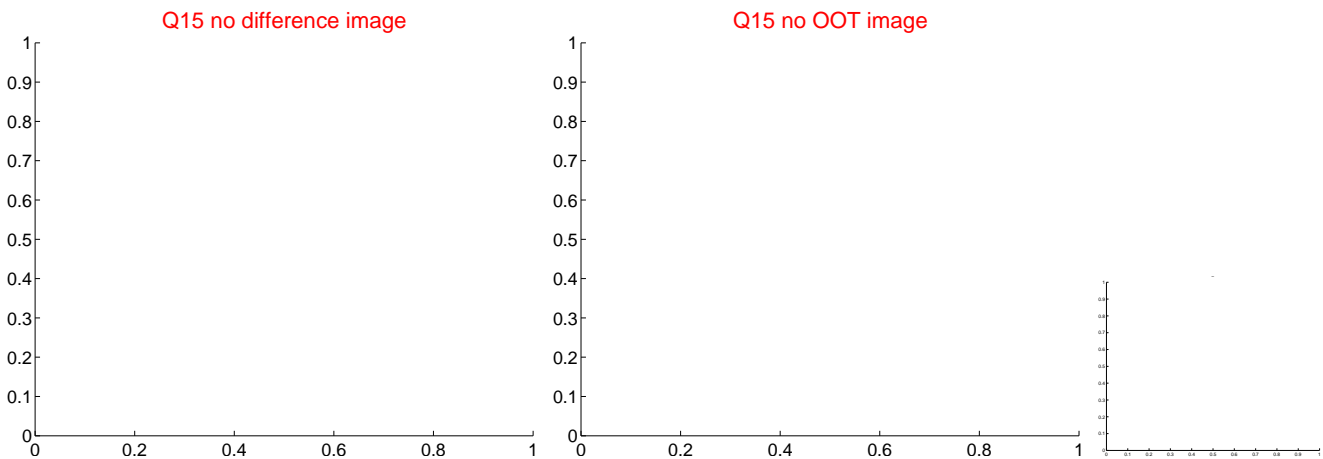
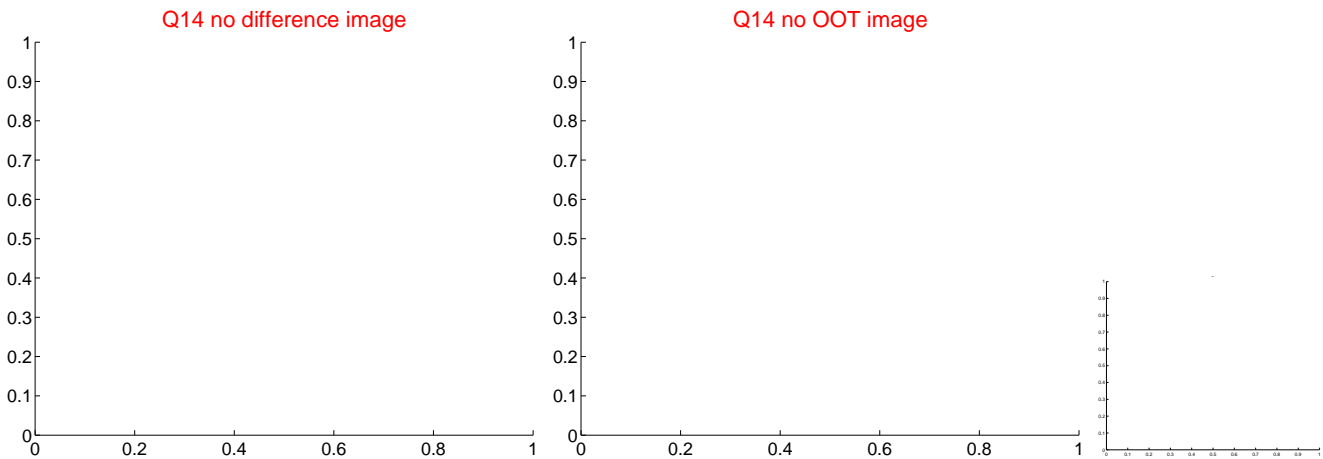
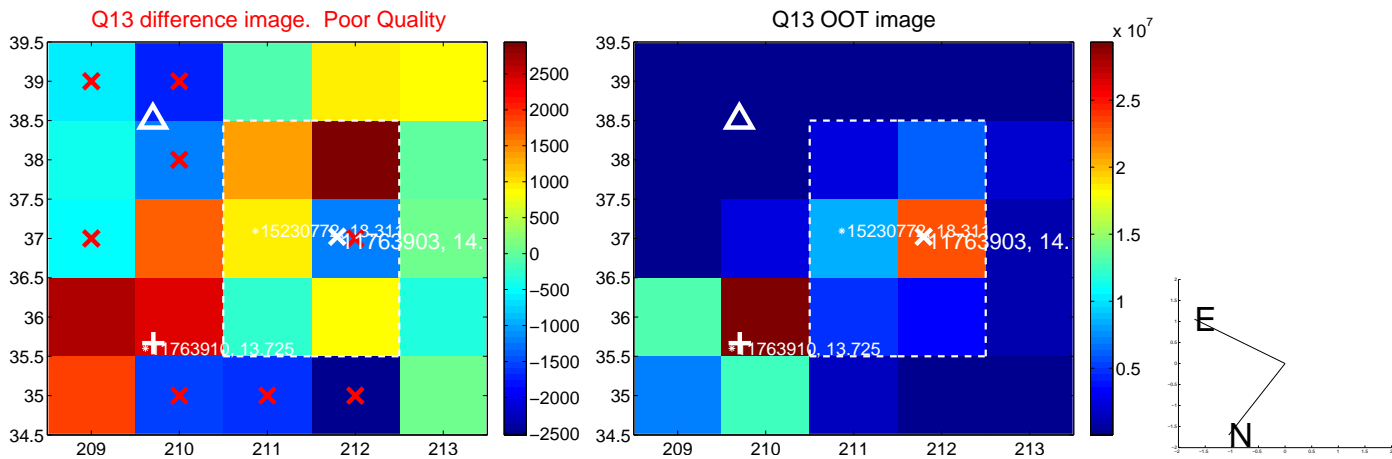
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



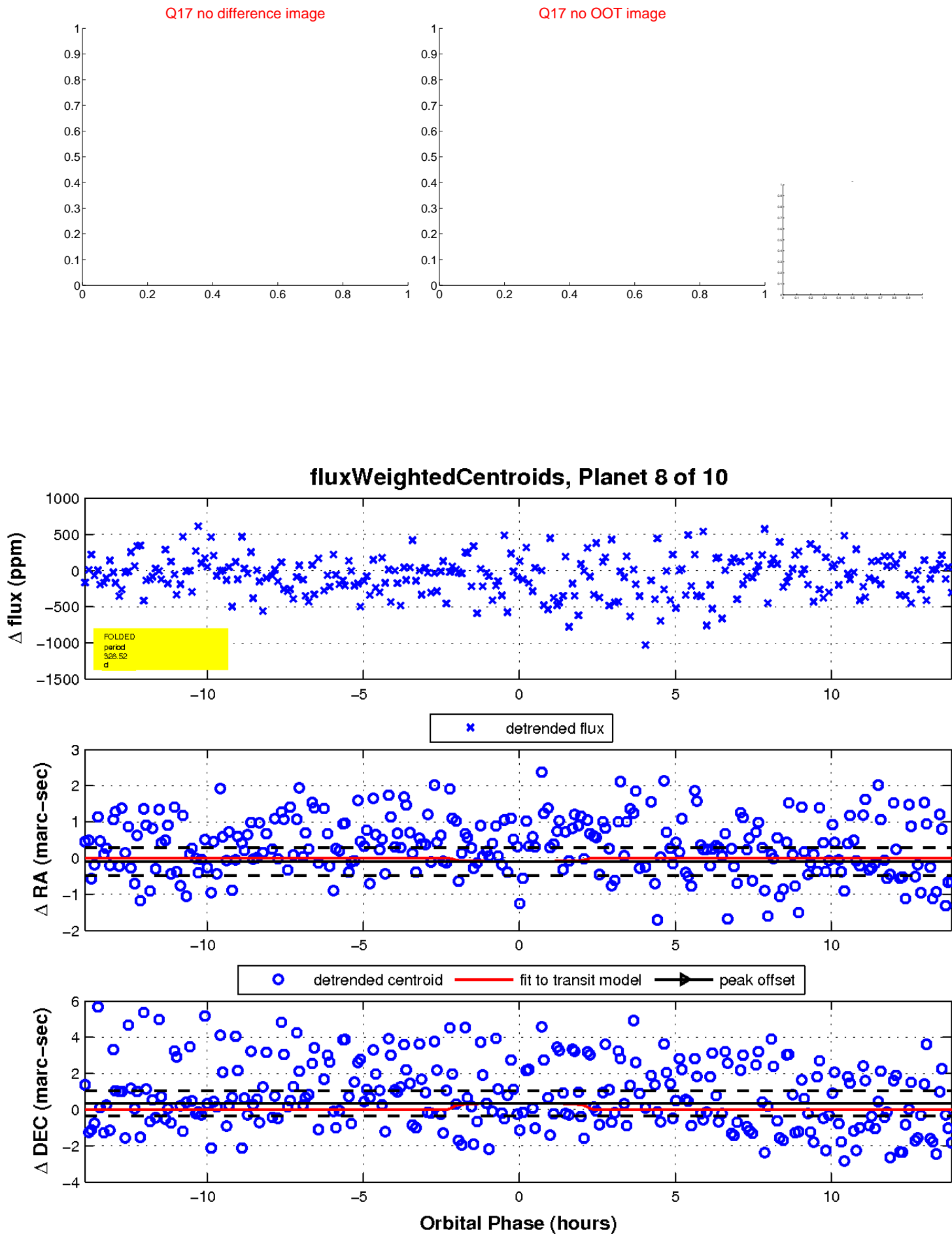
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

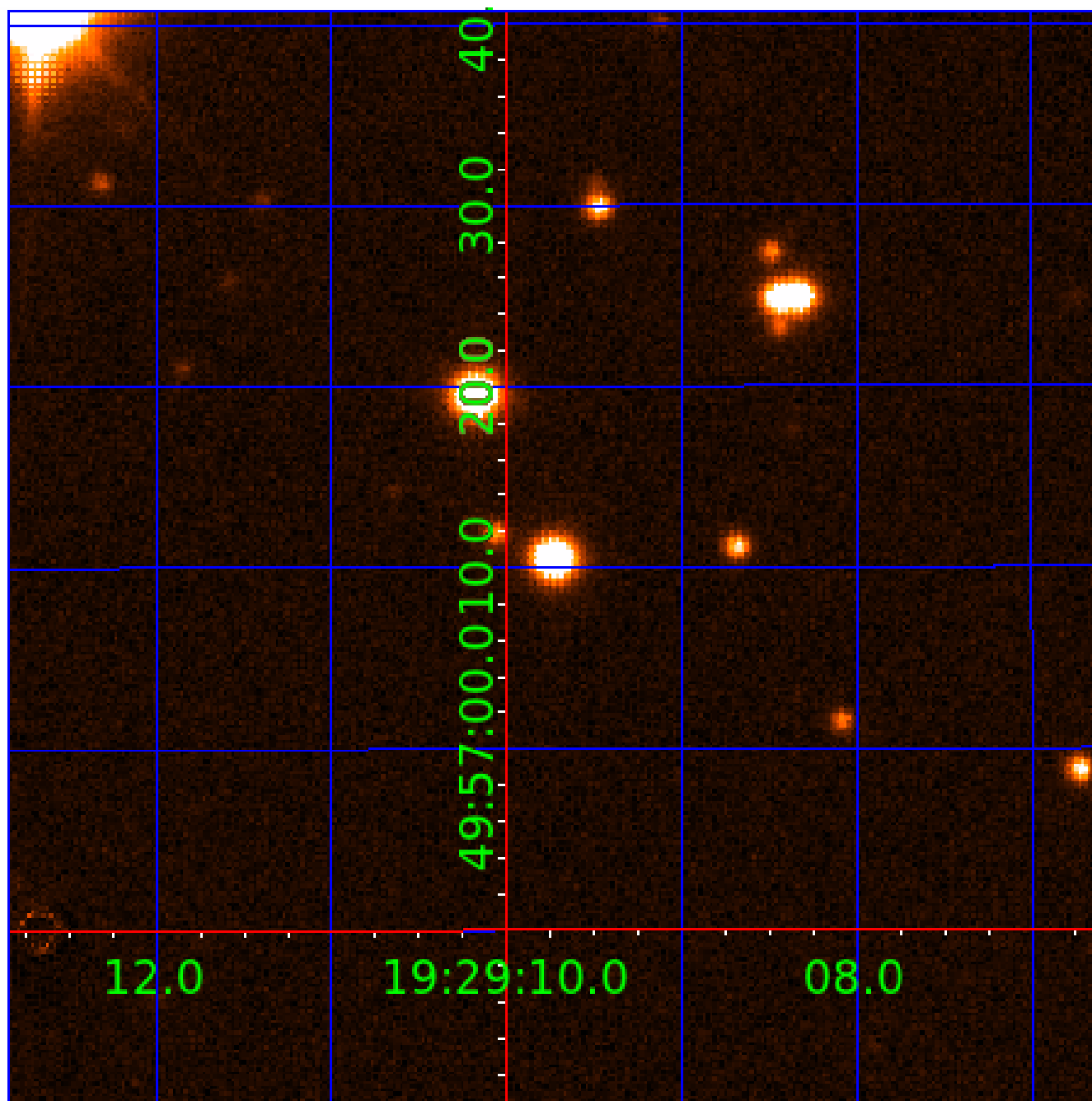


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

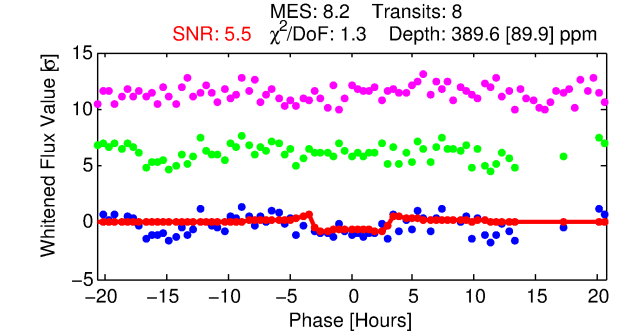
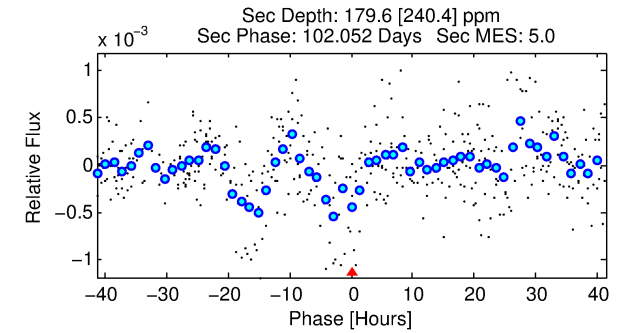
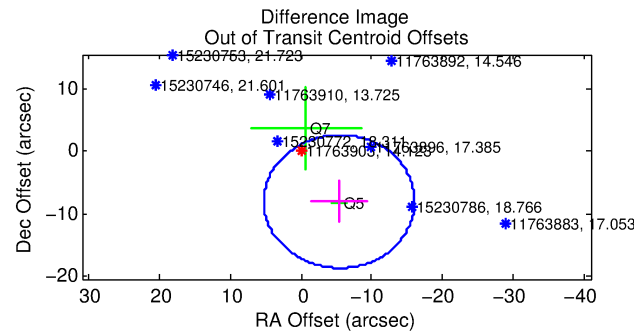
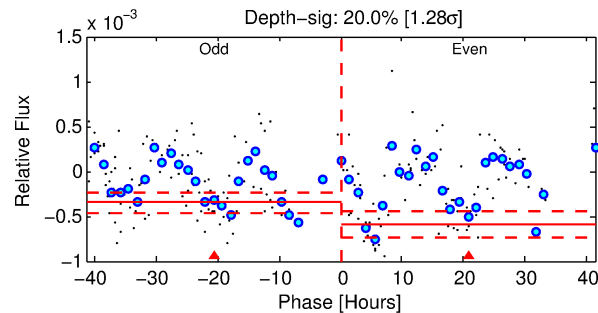
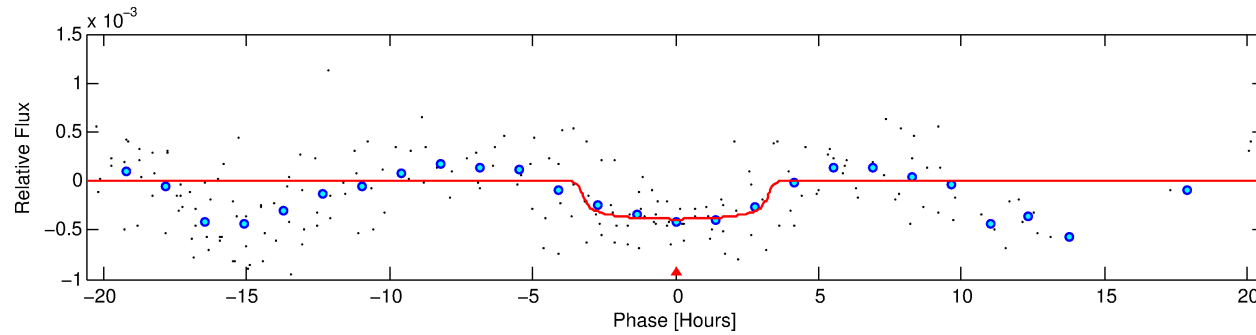
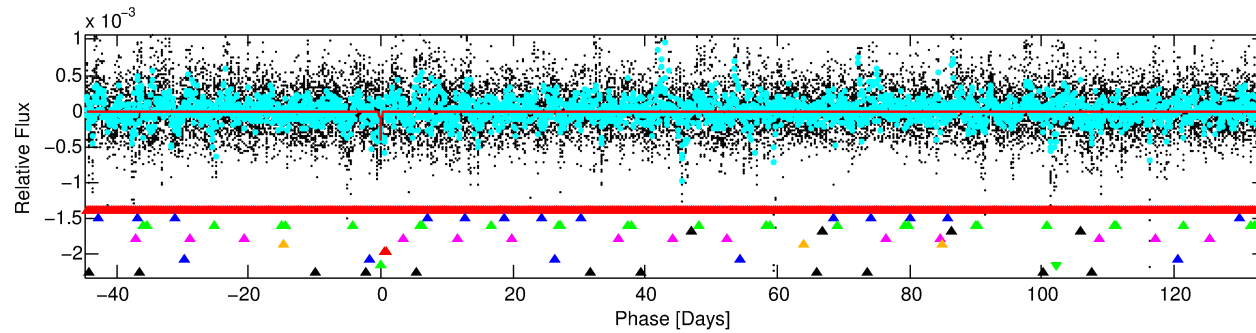
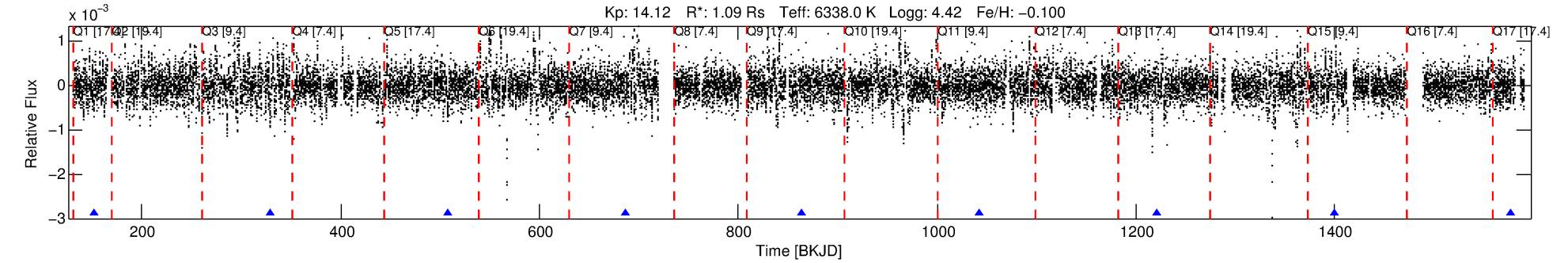
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-09

No Significant Match Found

DV One-Page Summary

KIC: 11763903 Candidate: 9 of 10 Period: 178.266 d



DV Fit Results:

Period = 178.26606 [0.00353] d
Epoch = 151.3787 [0.0151] BKJD
Rp/R* = 0.0198 [0.0103]
a/R* = 131.90 [341.07]
b = 0.77 [1.35]
Seff = 4.11 [1.58]
Teq = 363 [35] K
Rp = 2.36 [1.41] Re
a = 0.6471 [0.1625] AU
Ag = 7457.81 [12917.34] [0.58 σ]
Teffp = 5216 [2216] K [2.19 σ]

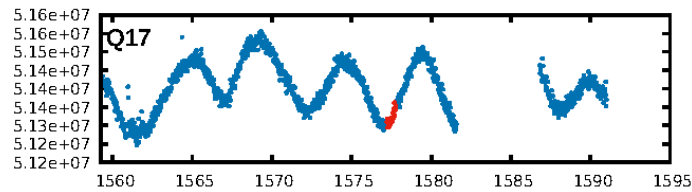
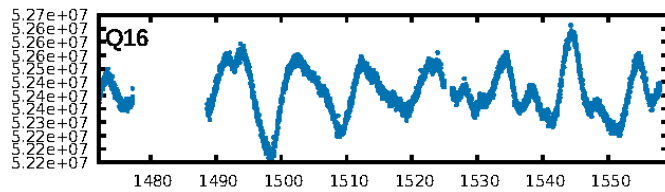
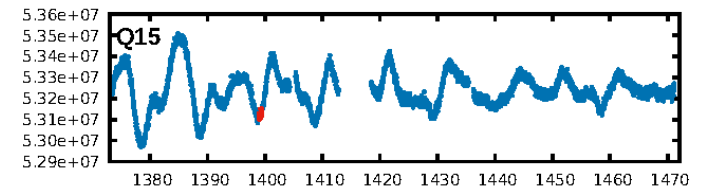
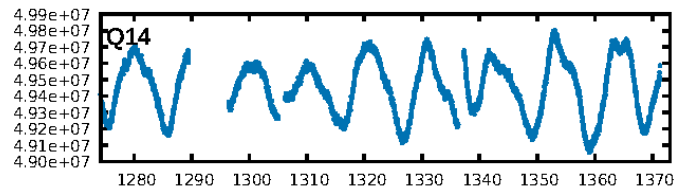
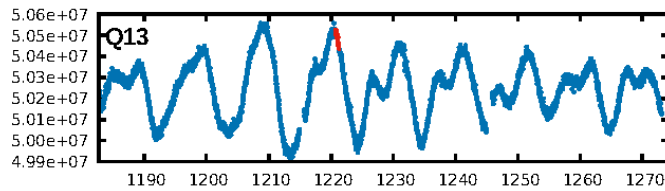
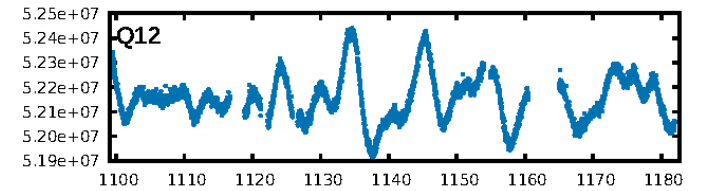
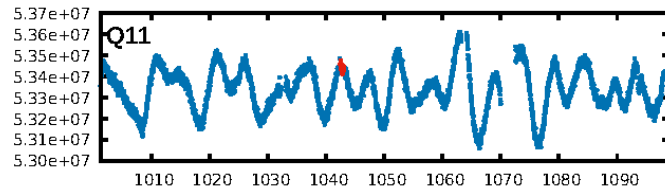
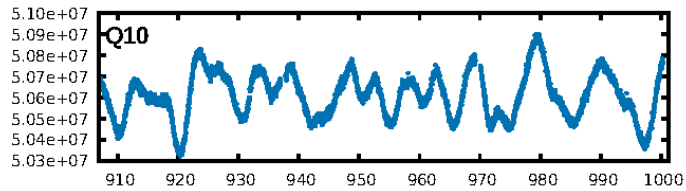
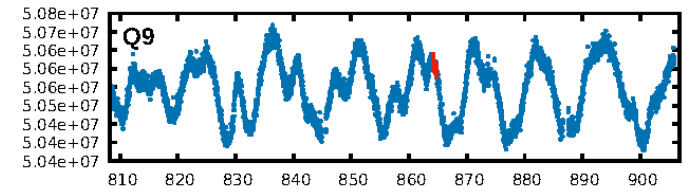
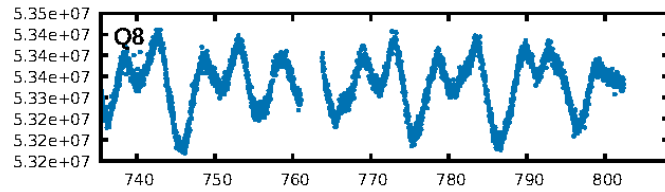
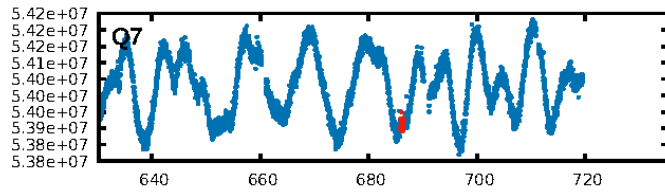
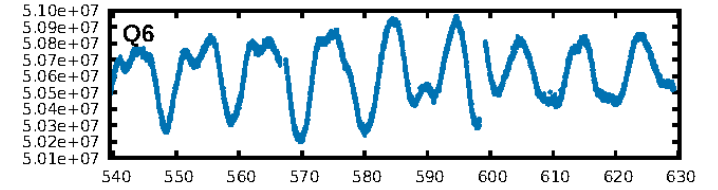
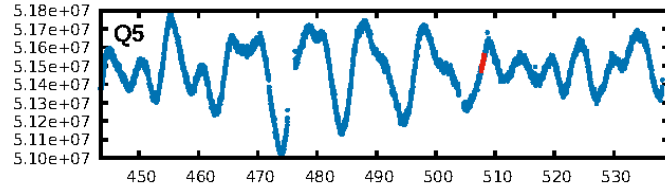
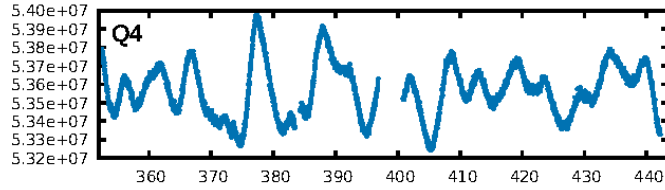
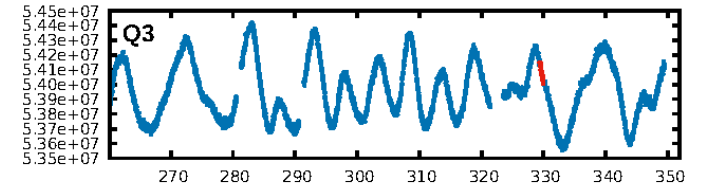
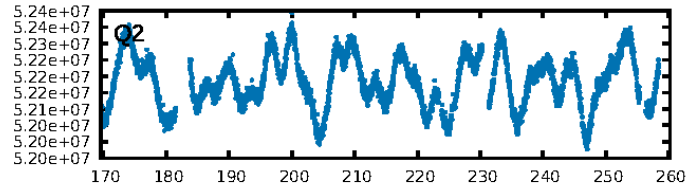
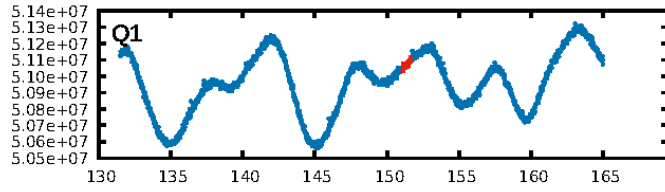
DV Diagnostic Results:

ShortPeriod-sig: 7.1% [0.09 σ]
LongPeriod-sig: 100.0% [434.37 σ]
ModelChiSquare2-sig: 19.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 6.74e-08
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 6.1
Centroid-sig: 4.1%
Centroid-so: 0.656 arcsec [0.50 σ]
OotOffset-rm: 9.713 arcsec [2.73 σ]
KicOffset-rm: 1.412 arcsec [0.37 σ]
OotOffset-st: 0/1/0/1 [2]
KicOffset-st: 0/1/0/1 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 0.00 [0/8]

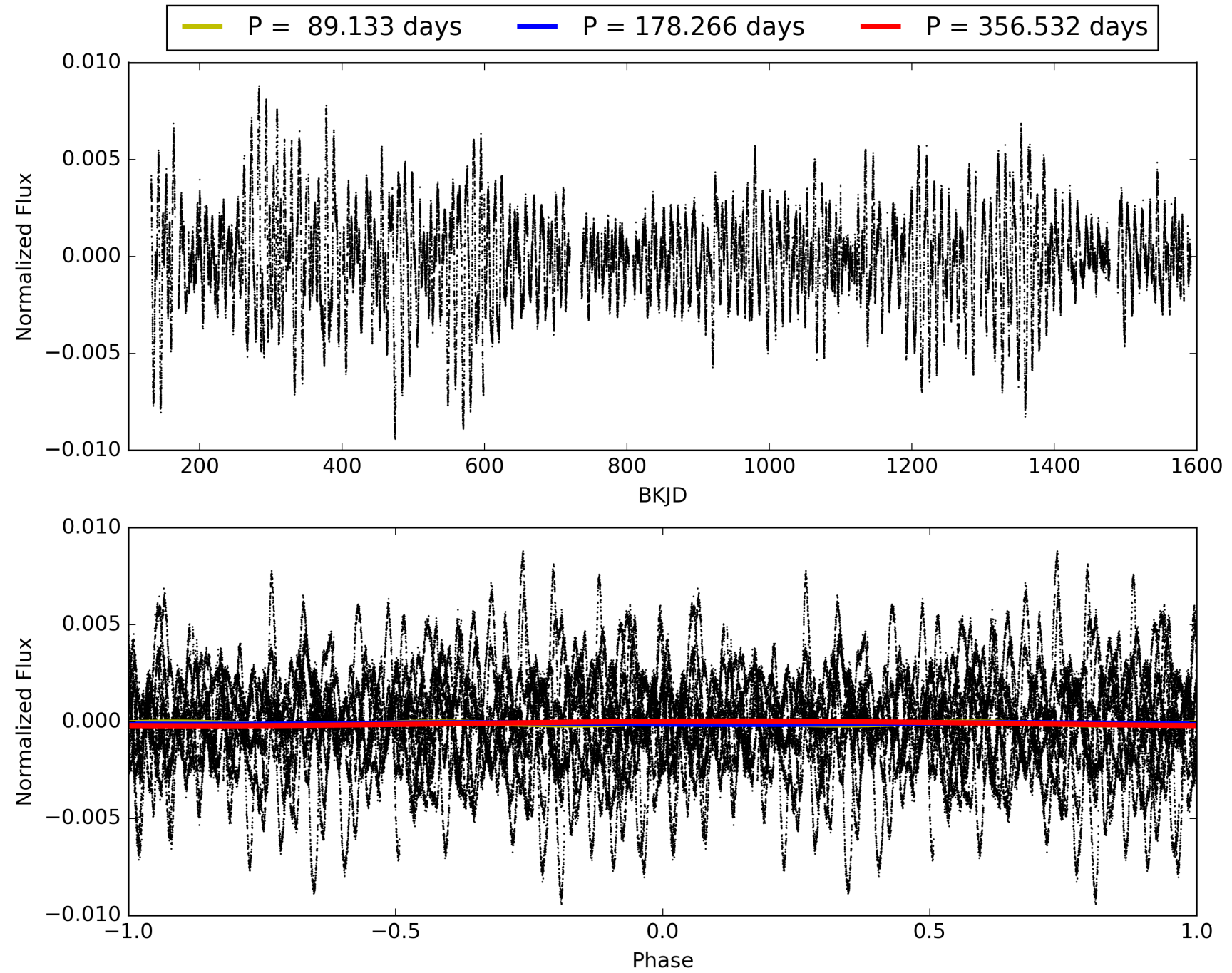
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:05:45 Z

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

TCE 011763903-09, PDC Light Curves

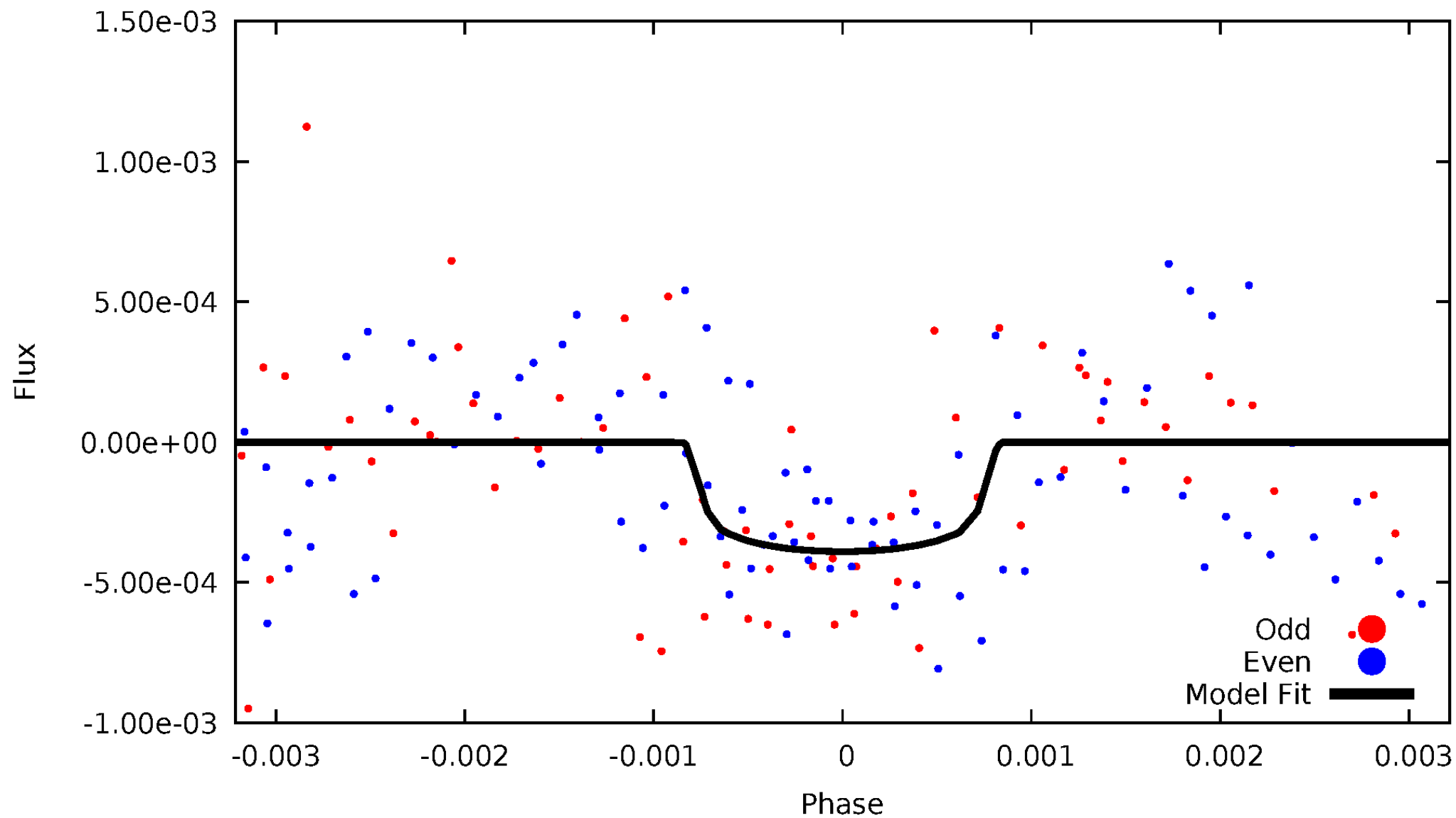


TCE 011763903-09



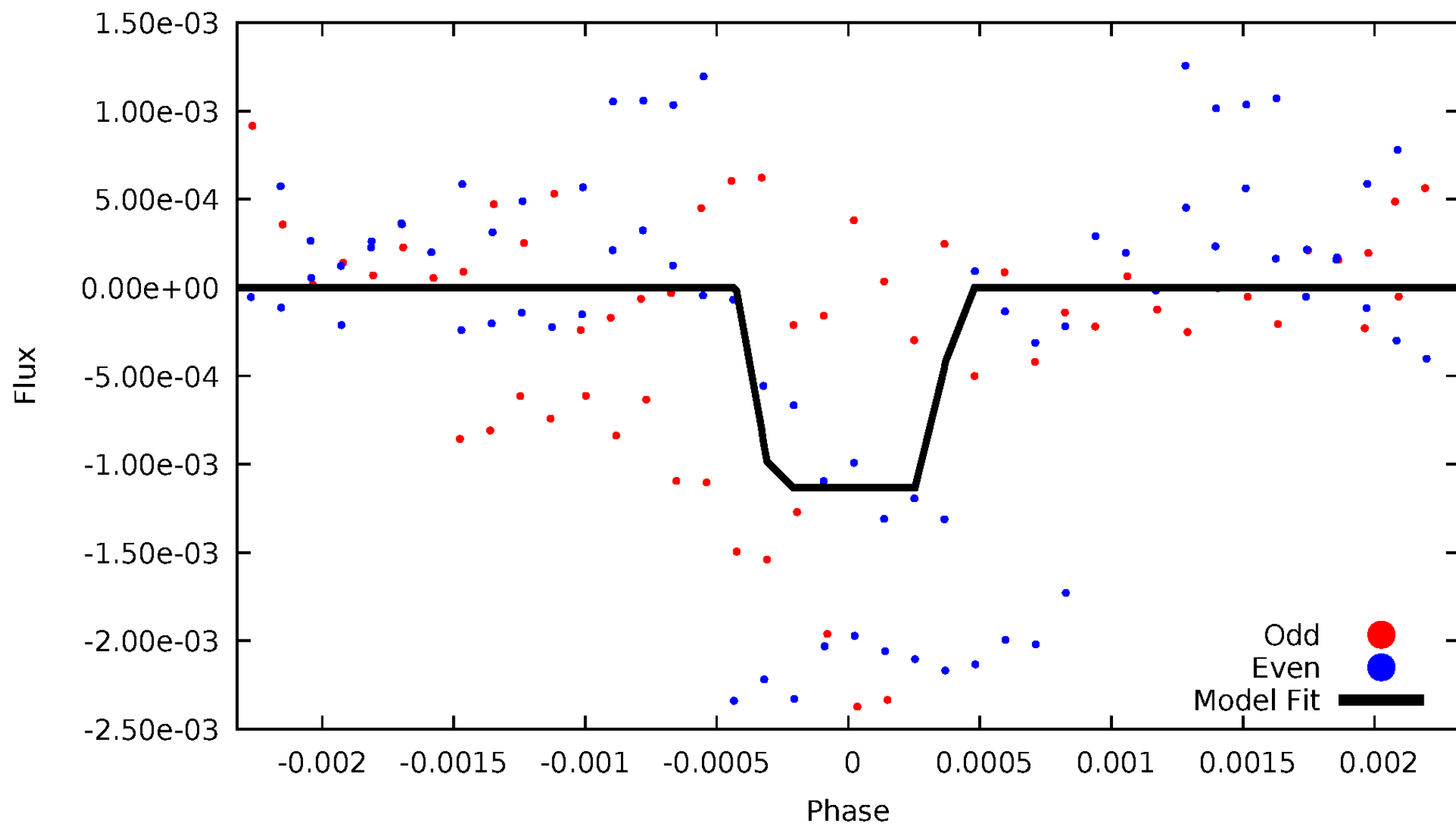
DV Odd/Even

TCE 011763903-09



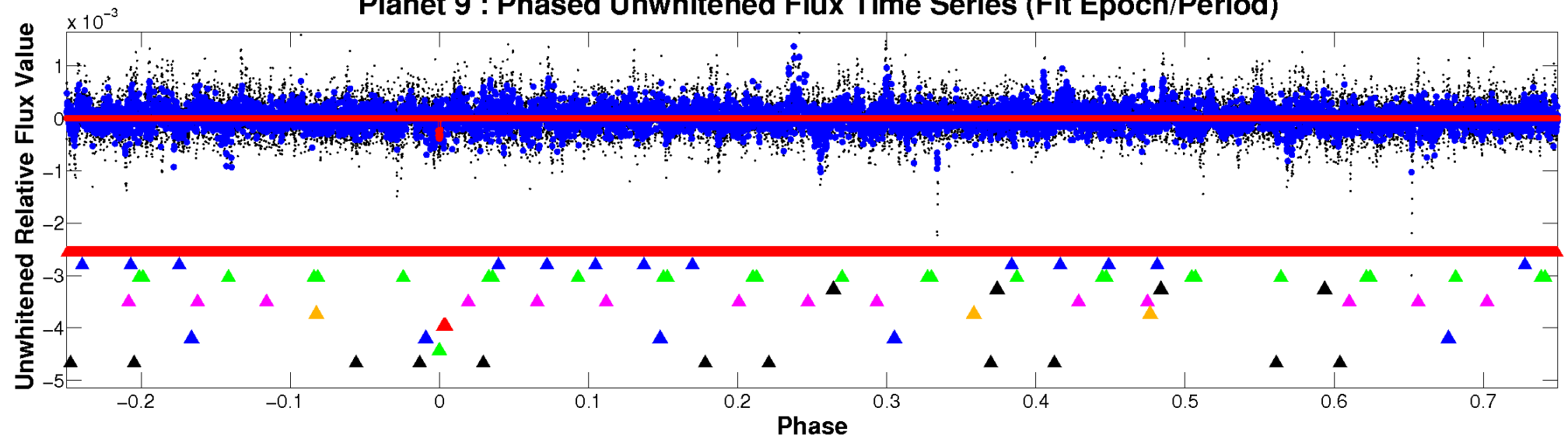
ALT Odd/Even

TCE 011763903-09

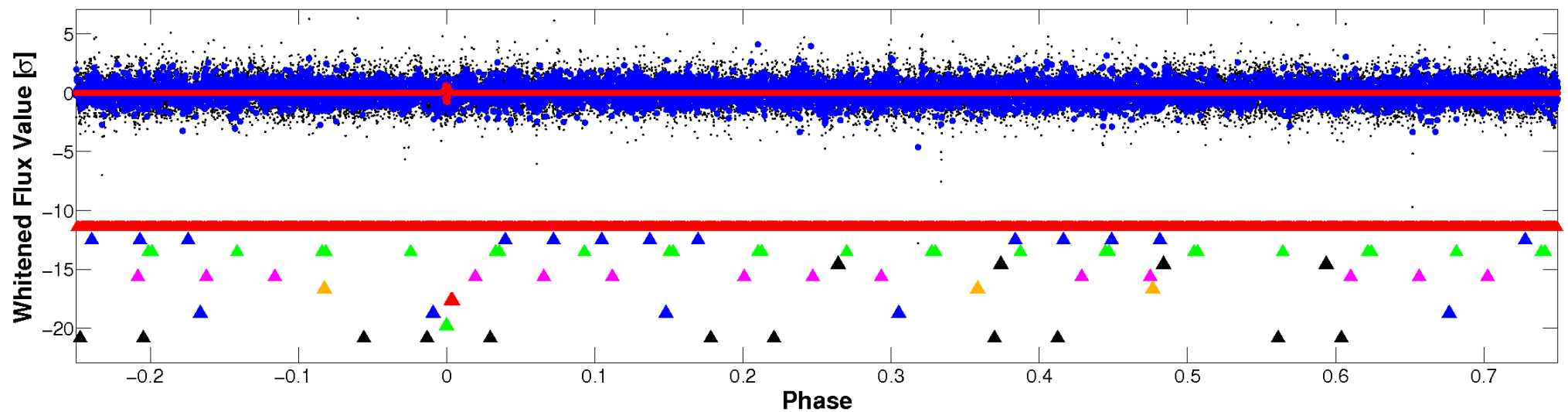


Non-Whitened Vs. Whitened Light Curve

Planet 9 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

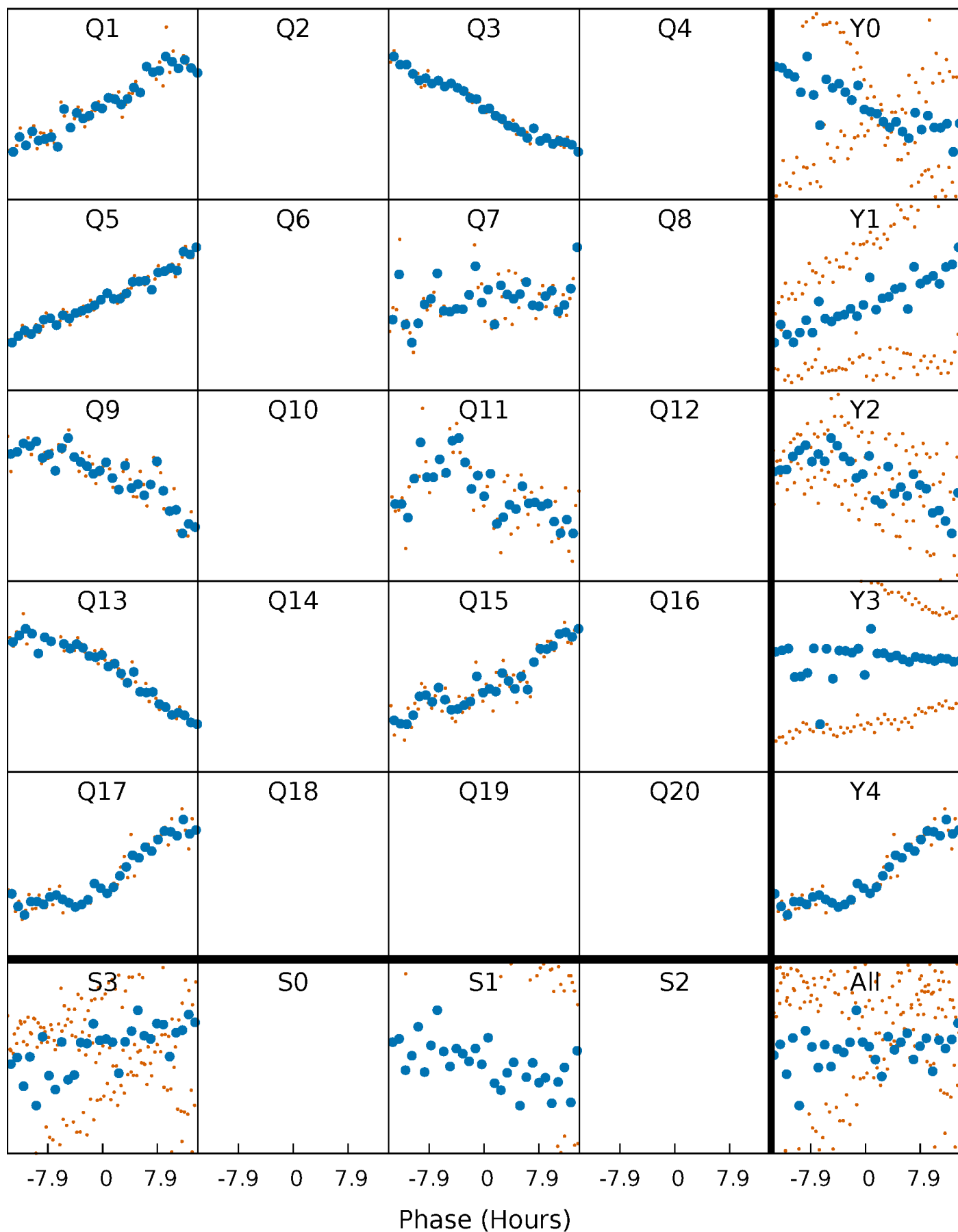


Planet 9 : Phased Whitened Flux Time Series (Fit Epoch/Period)



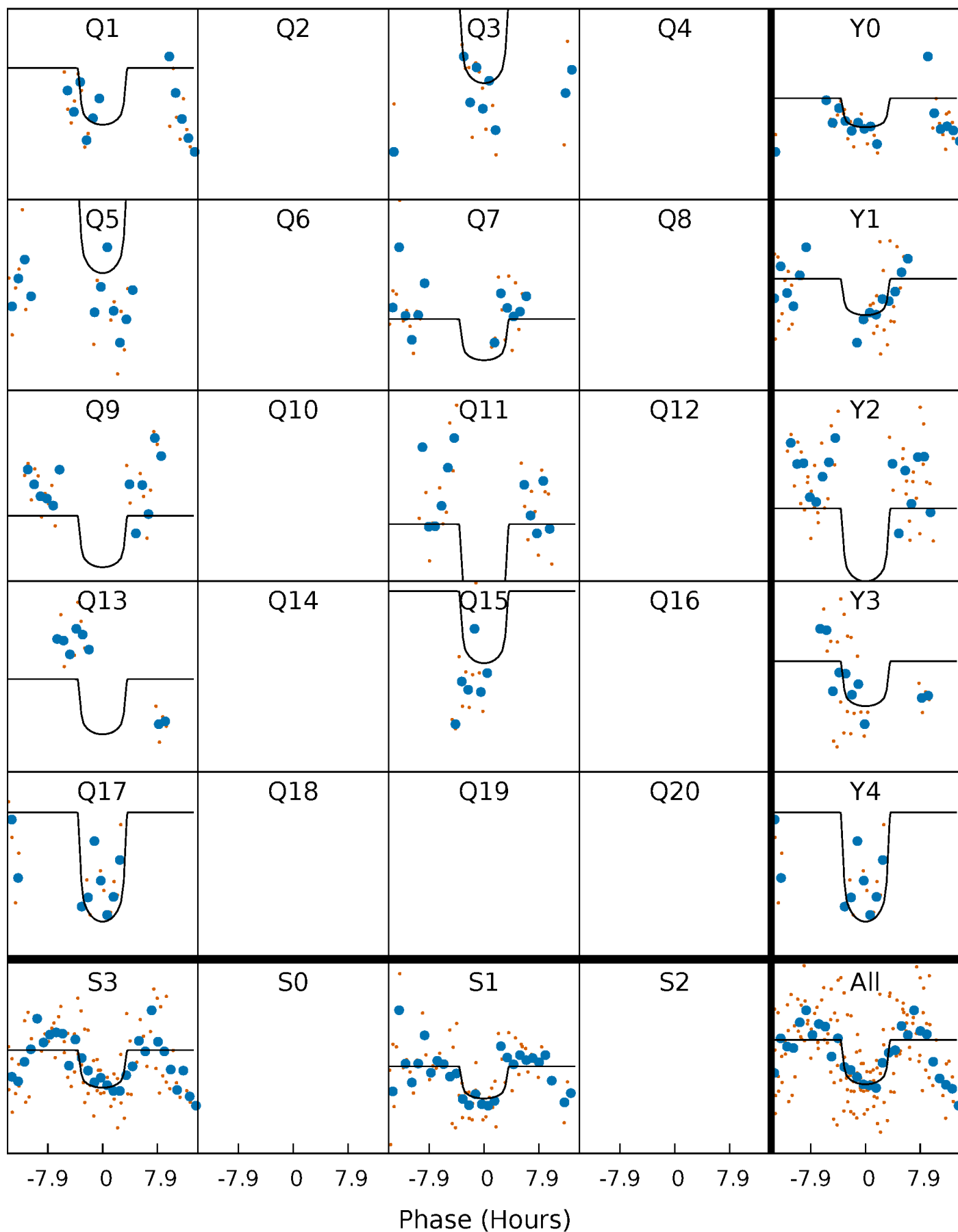
PDC Quarter-Phased Transit Curves

TCE 011763903-09 $P=178.266063$ Days $T_0=151.378670$ (BKJD)



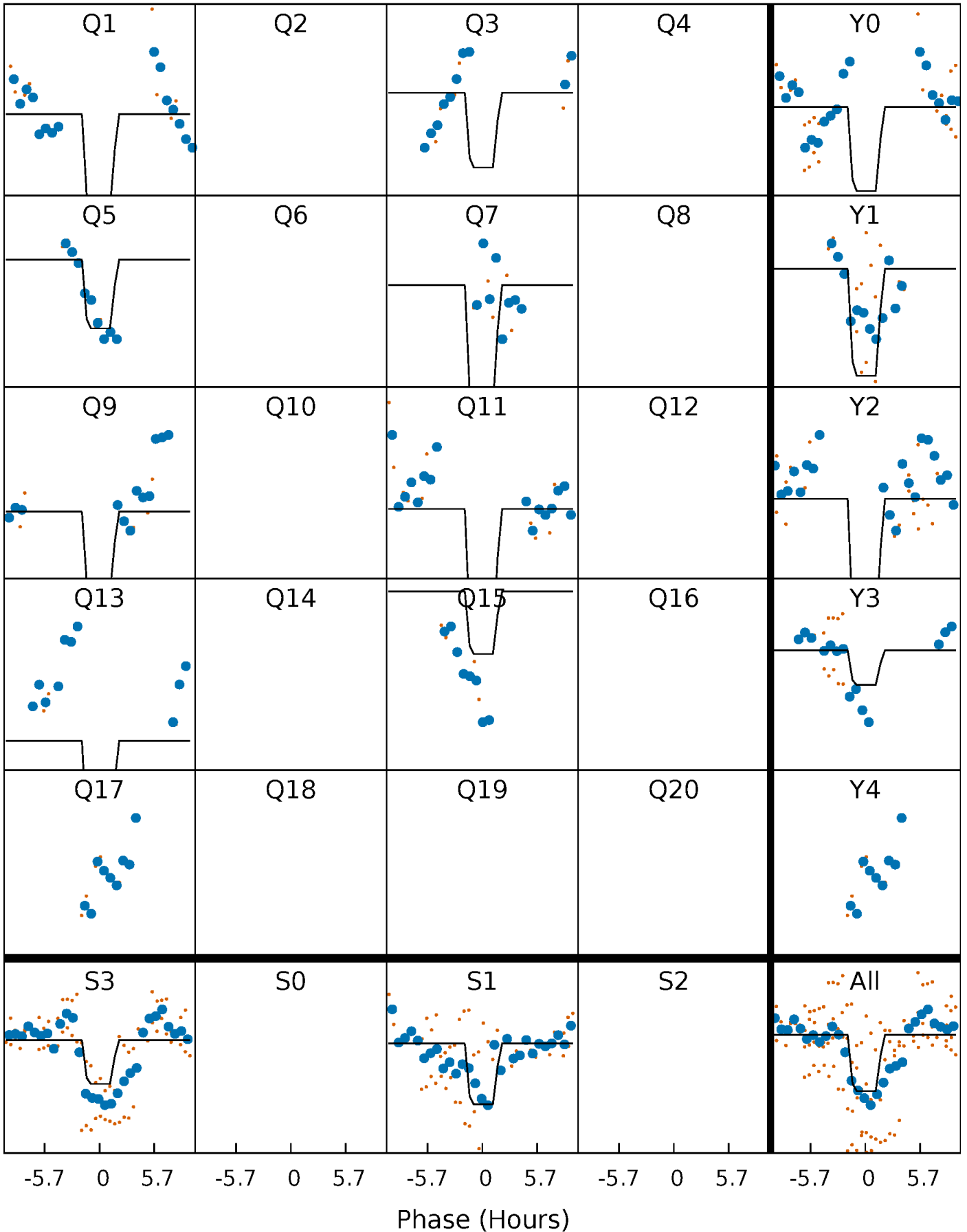
DV Quarter-Phased Transit Curves

TCE 011763903-09 $P=178.266063$ Days $T_0=151.378670$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

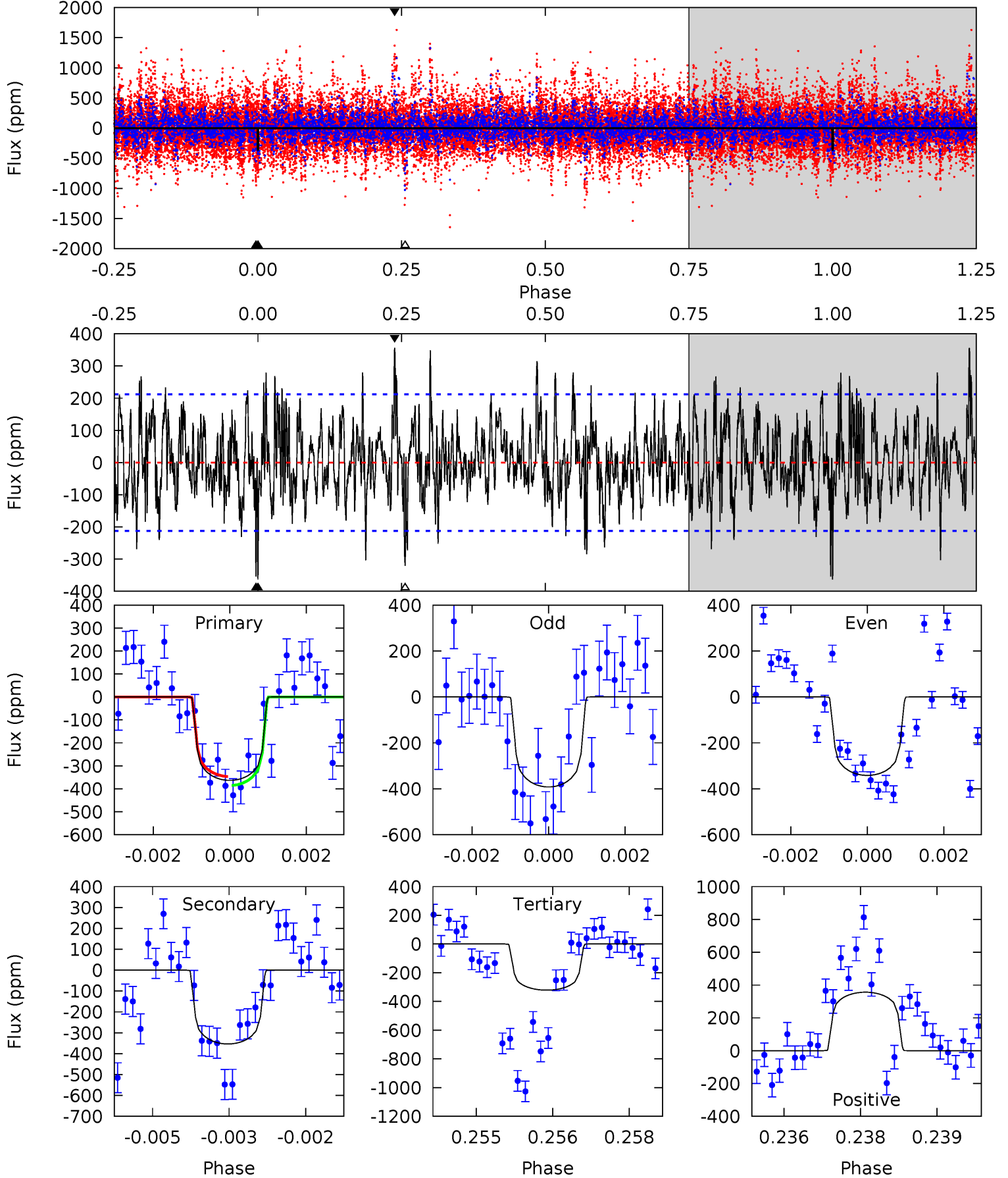
TCE 011763903-09 $P=178.241944$ Days $T_0=151.533939$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-09, P = 178.266063 Days, E = 151.378670 Days

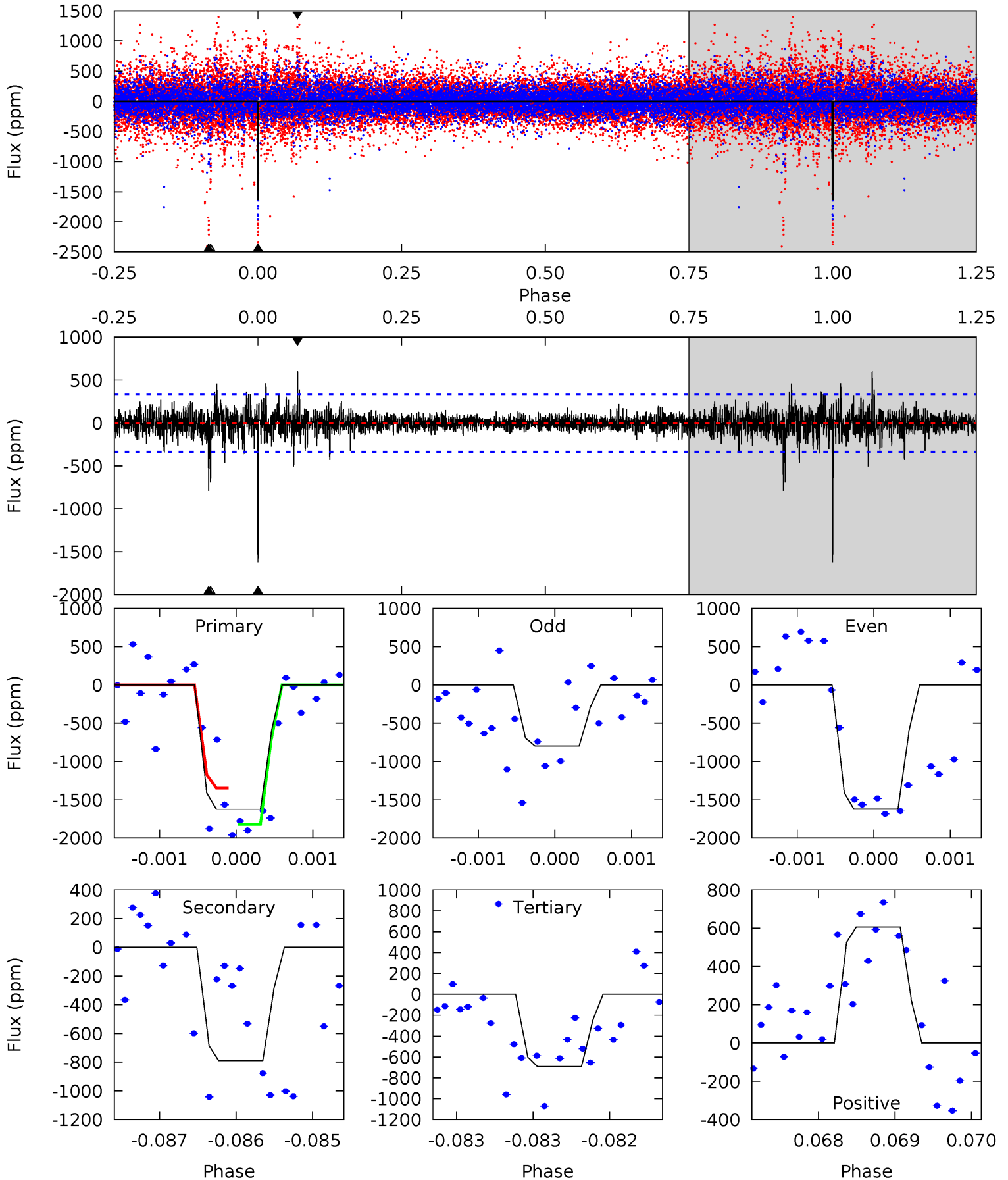
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.18	8.93	8.11	9.00	5.36	3.14	2.47	1.07	0.18	0.82	-0.07	0.62	0.70	0.50	0.49



Alt Model-Shift Uniqueness Test

011763903-09, P = 178.241944 Days, E = 151.533939 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
26.5	12.9	11.3	9.90	5.49	3.35	1.42	15.2	16.6	1.59	3.00	6.94	0.88	0.27	3.86



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-09 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-353 ± 40	$2.49^{+1.22}_{-1.24}$	515^{+35}_{-24}	6150^{+2901}_{-1085}	12996^{+41780}_{-7160}
Alt.	-790 ± 61	$4.11^{+1.52}_{-1.29}$	517^{+32}_{-27}	5772^{+1309}_{-695}	10411^{+12734}_{-4721}

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 $A_{obs} \gg 1.0$

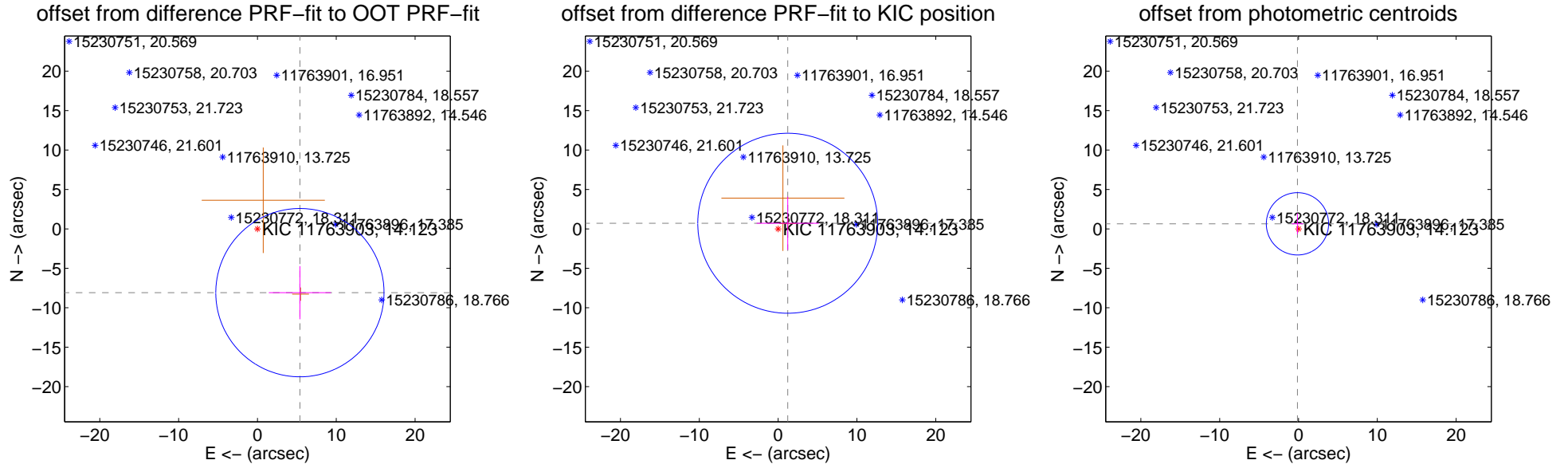
DV Centroid Data

Supplemental centroid analysis for 011763903-09. Kepler magnitude: 14.12. Transit SNR 5.49

There are 0 quarters with good PRF difference image offsets

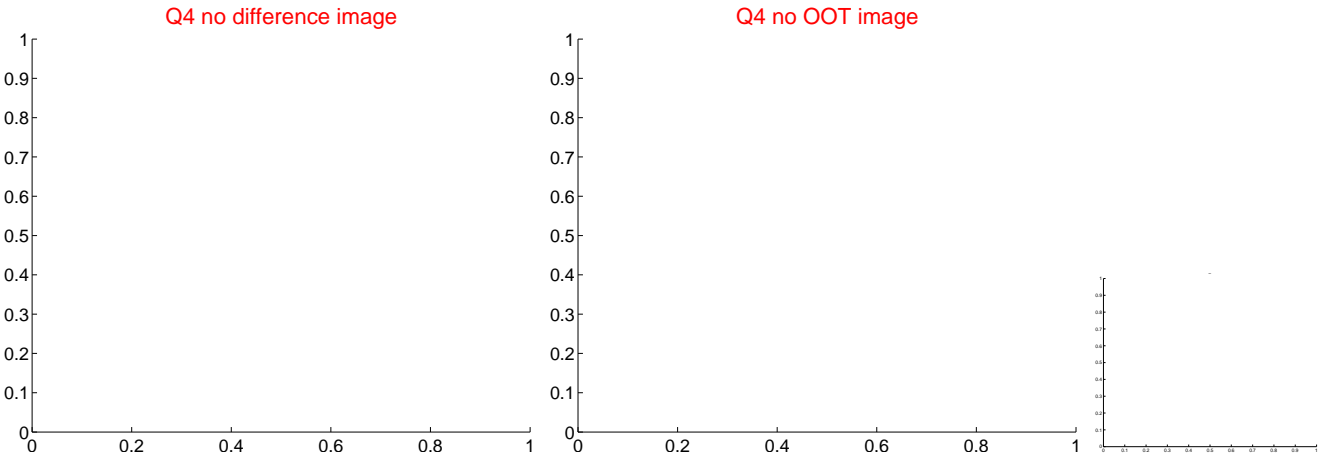
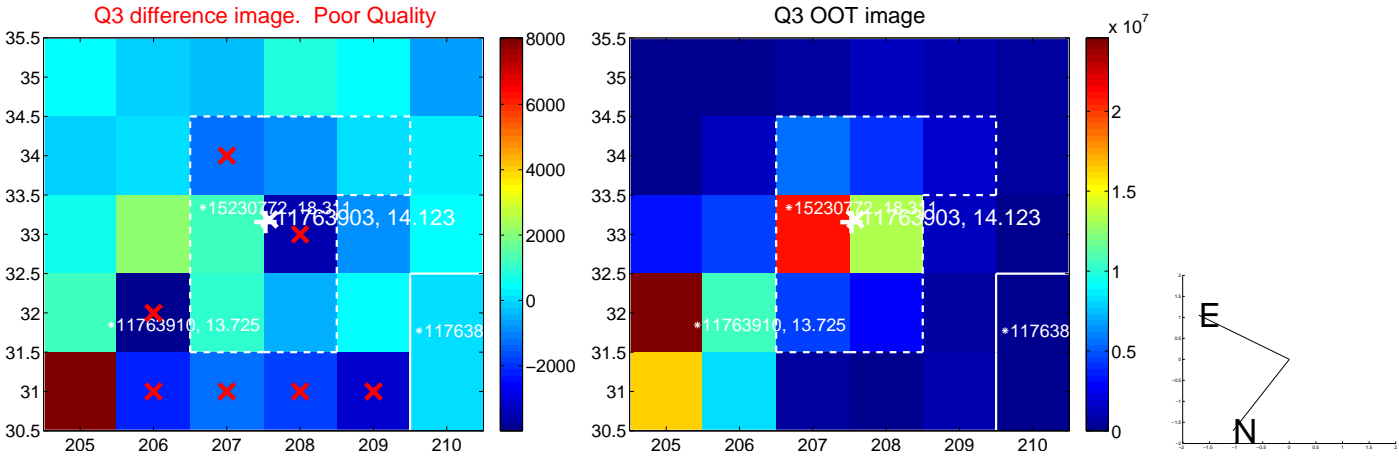
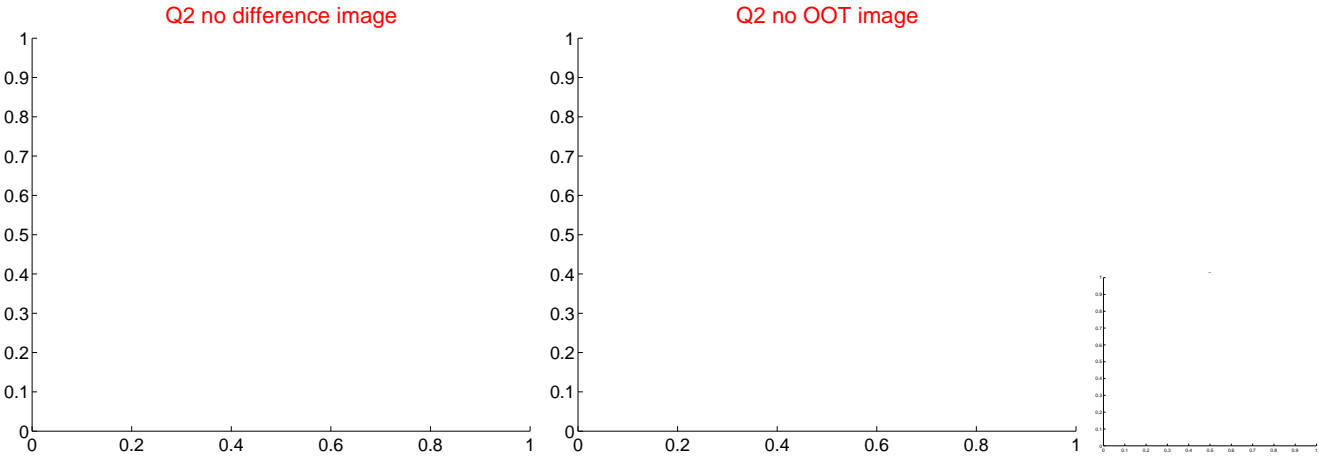
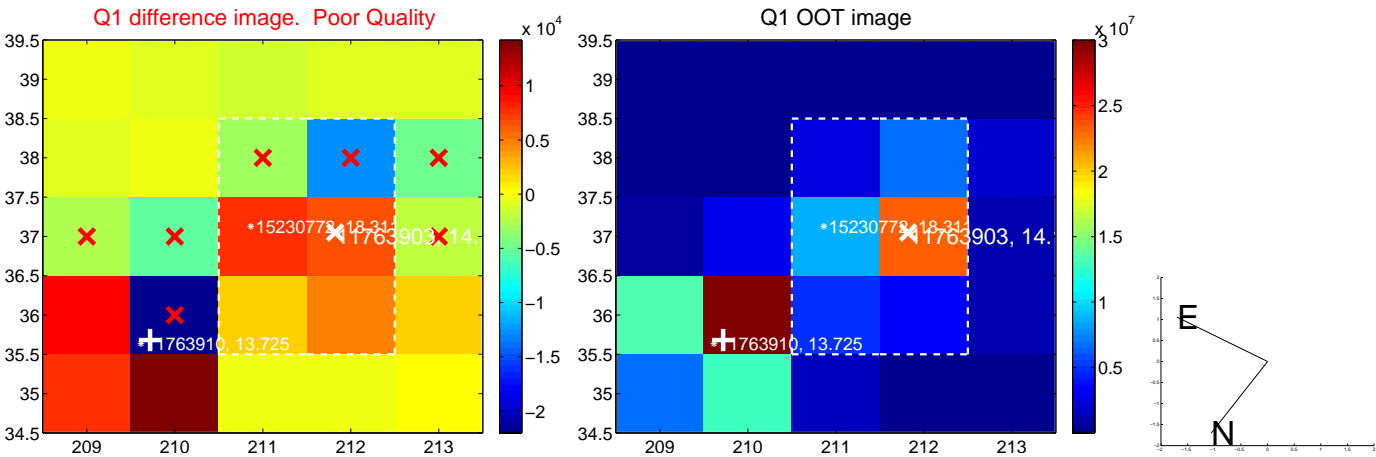
The direct PRF centroid is offset from the target star catalog position by about 0.29 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	9.713 ± 3.556	2.73	-5.386 ± 3.940	-8.083 ± 3.371
PRF-fit source offset from KIC position	1.412 ± 3.802	0.37	-1.217 ± 3.940	0.715 ± 3.371
photometric centroid source offset	0.66 ± 1.32	0.50	0.13 ± 0.71	0.64 ± 1.34

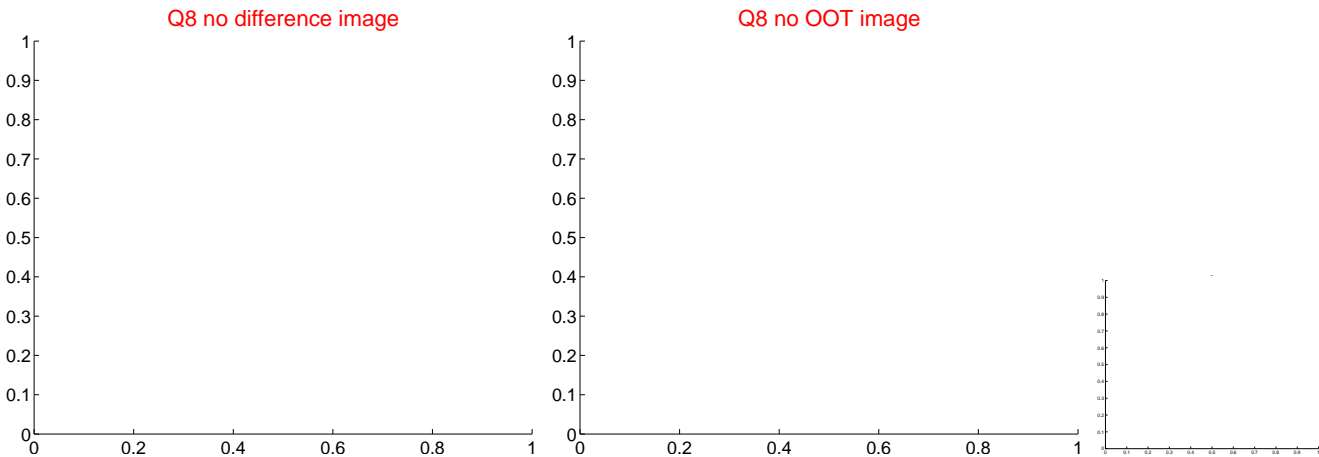
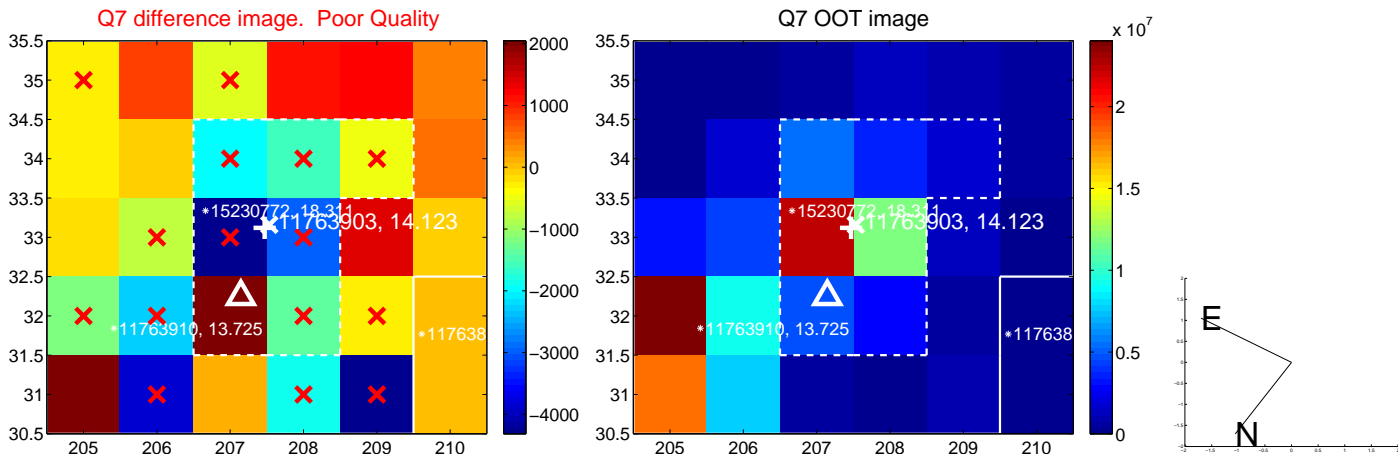
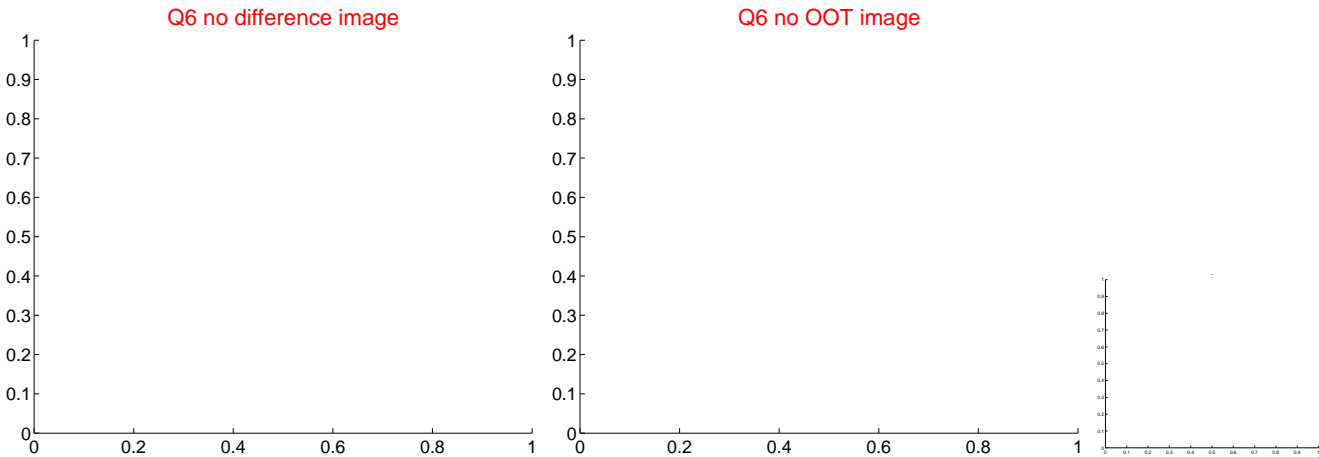
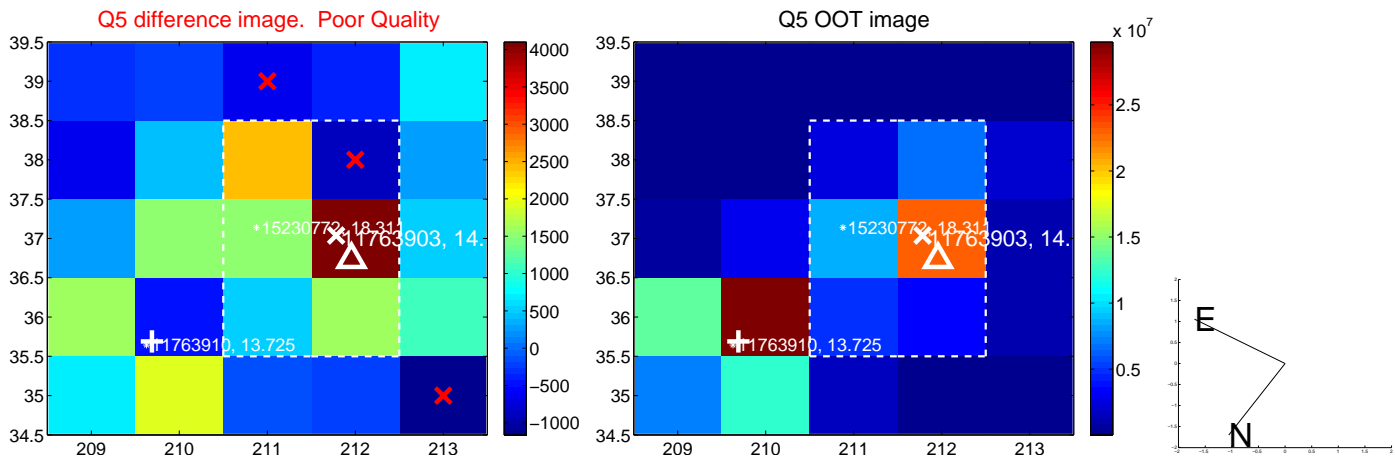


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

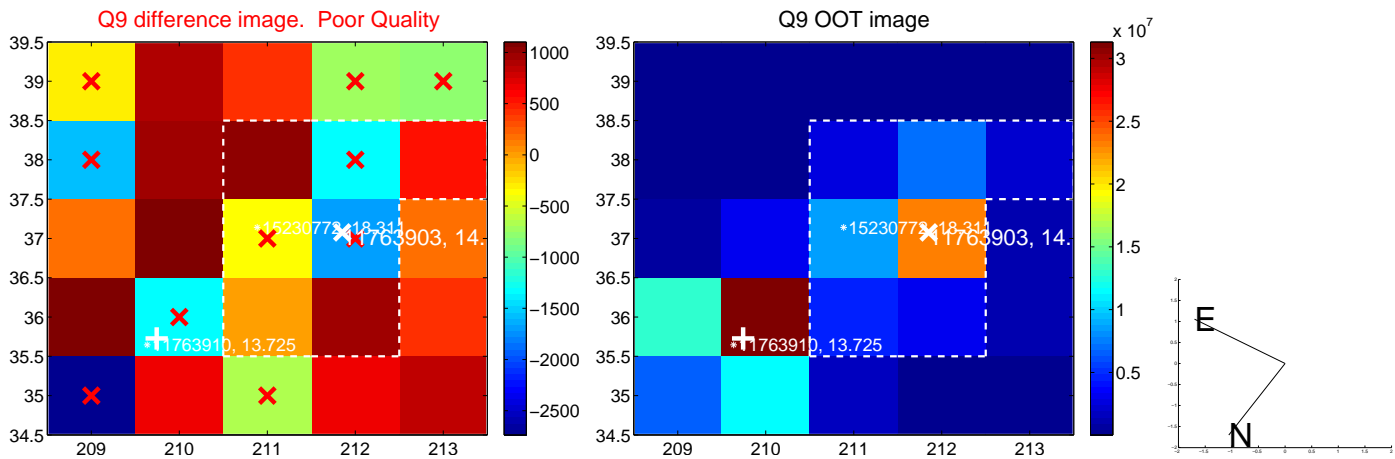
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



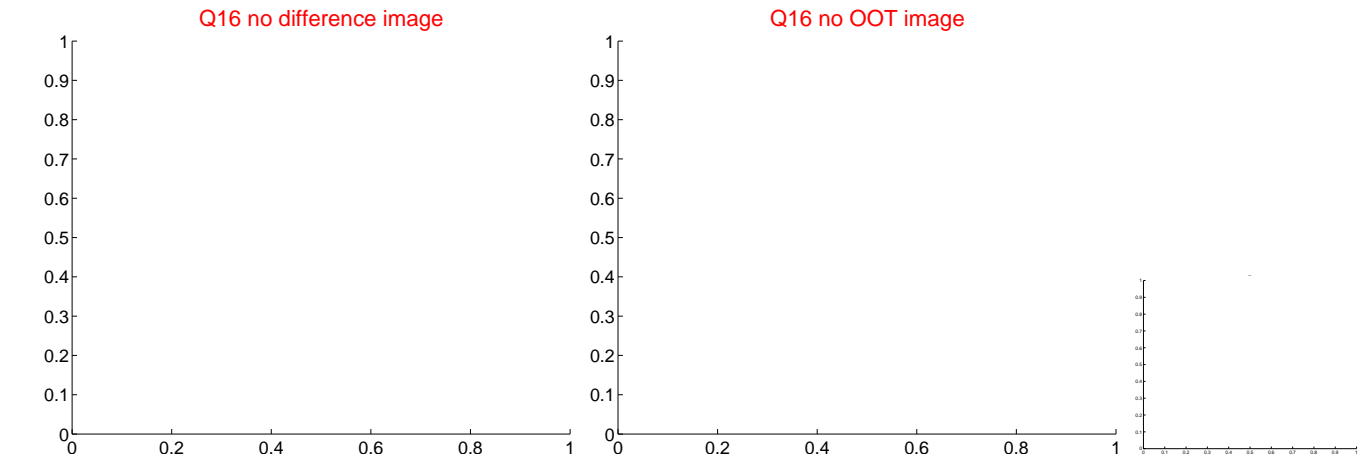
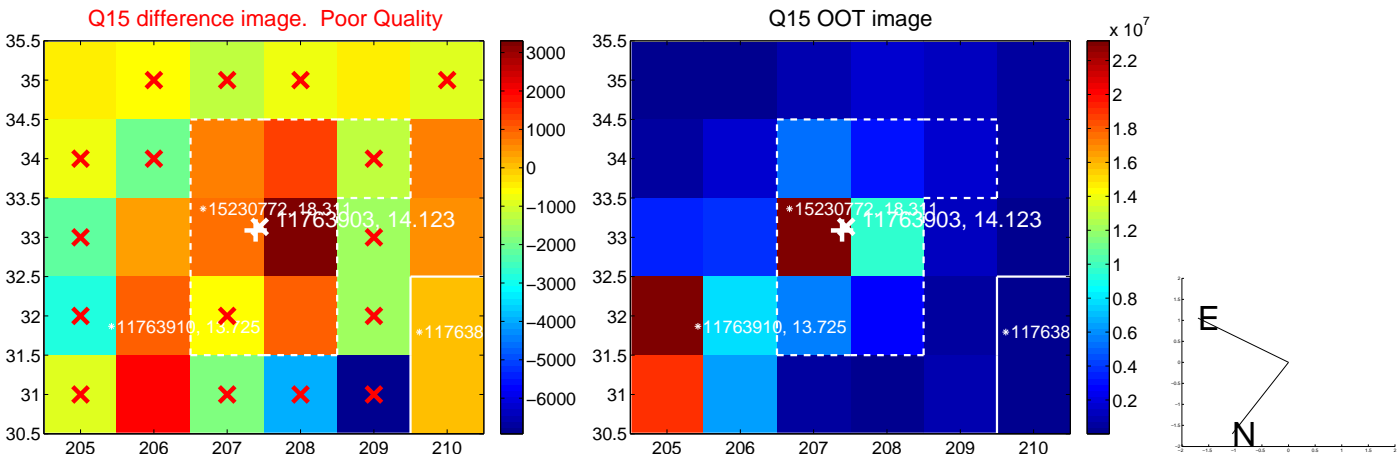
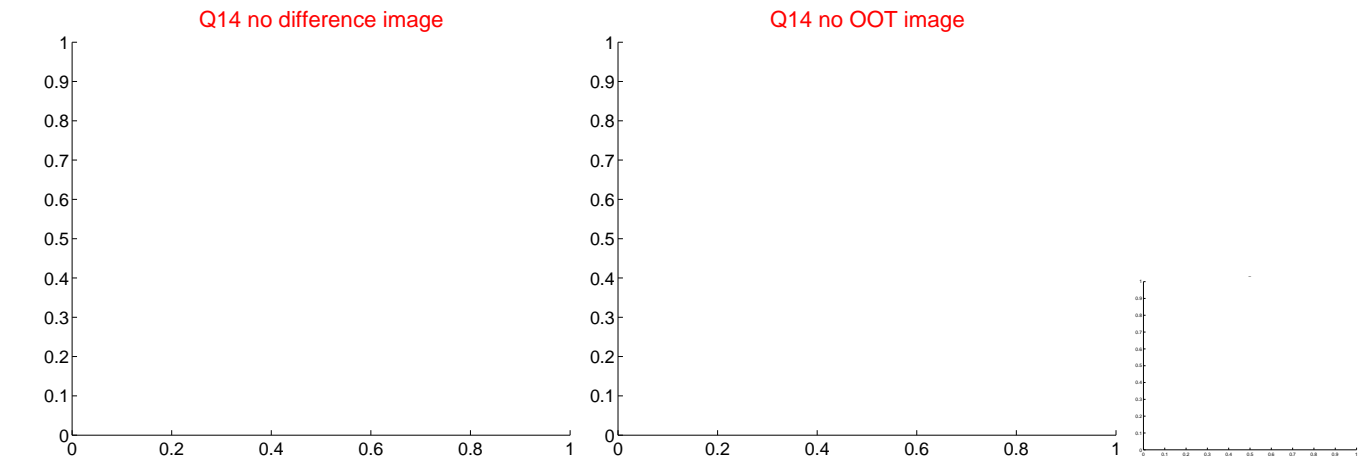
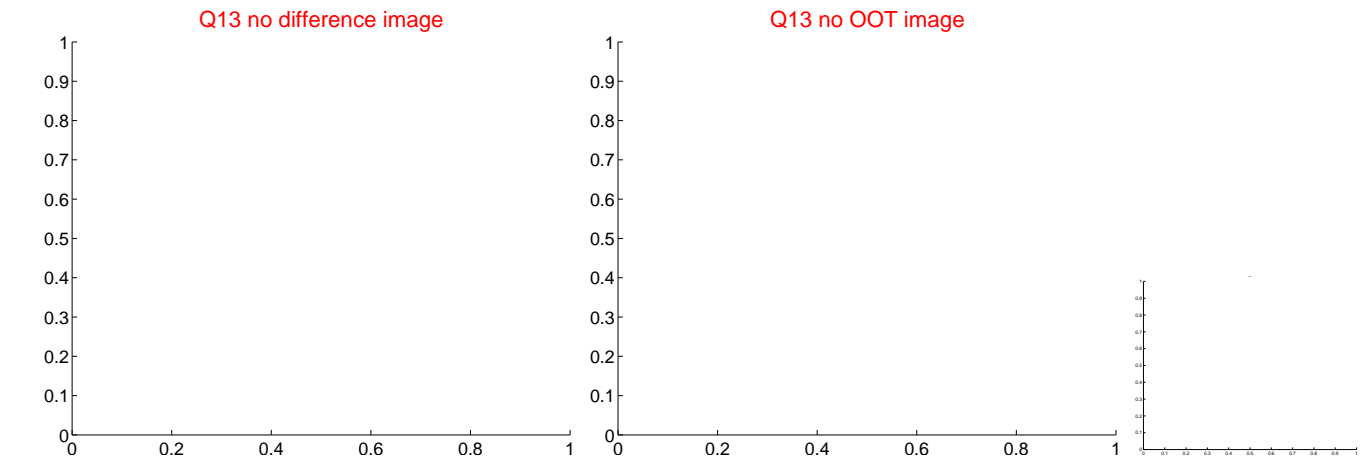
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



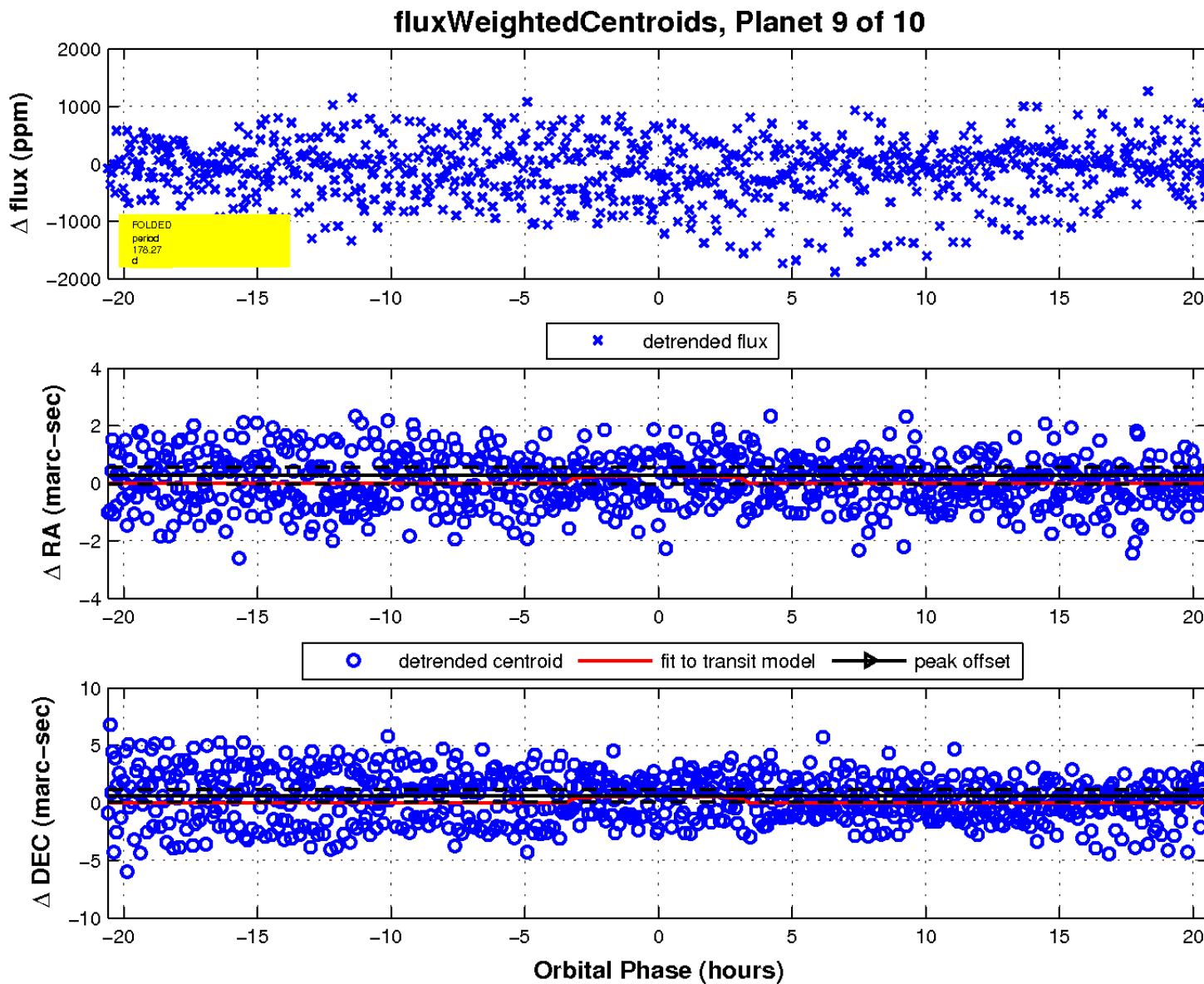
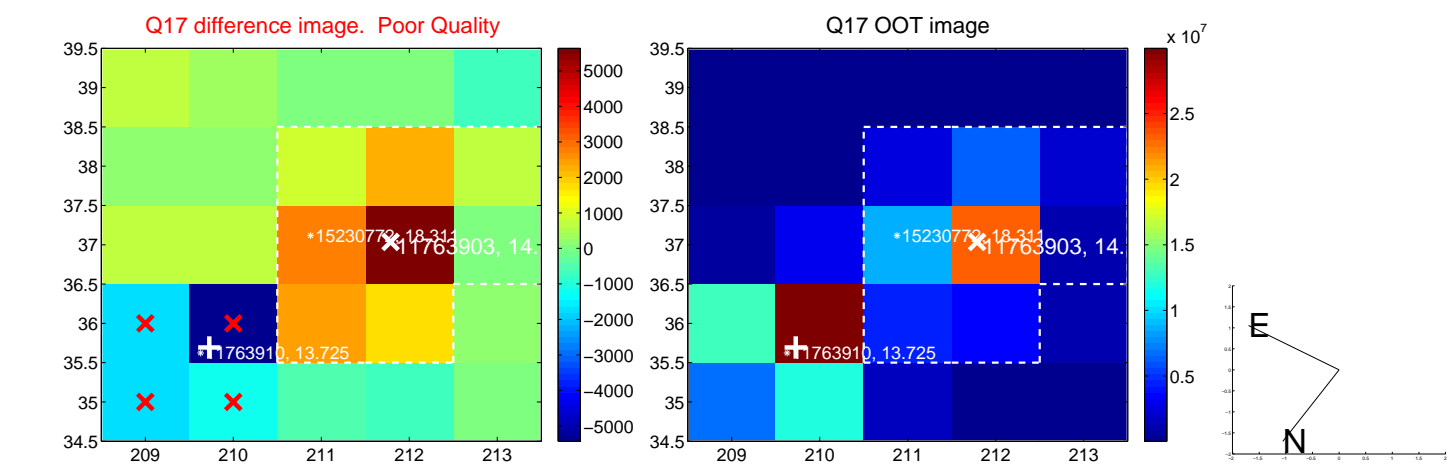
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

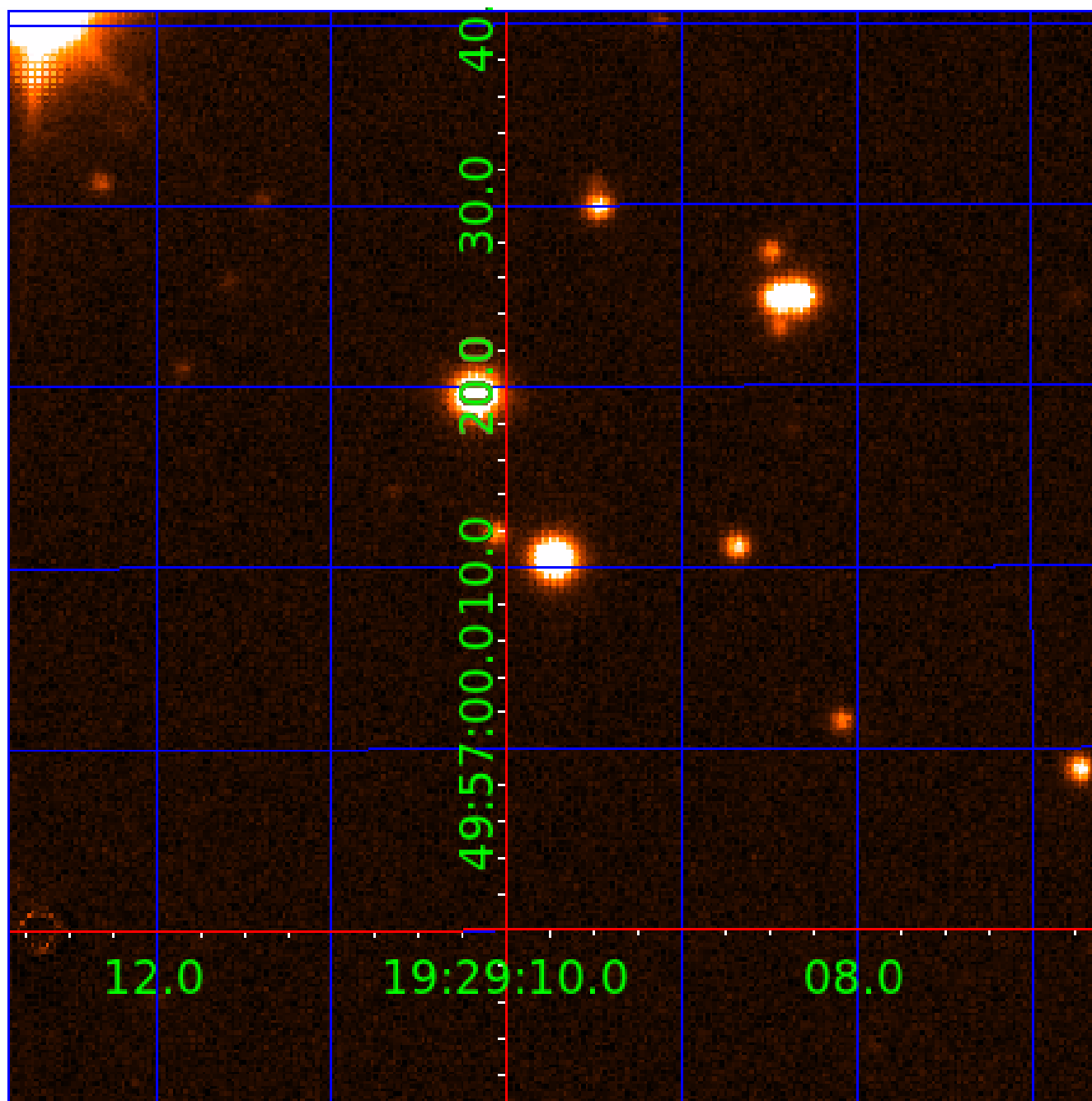


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011763903

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})
011763903-01	OBS	No	0.612914	131.947198	24.5	2.894	8.2	8.2	1.09	6338	0.57	7919.91
011763903-02	OBS	No	116.911443	181.635595	346.8	3.354	14.2	5.0	1.09	6338	2.21	7.21
011763903-03	OBS	No	52.458124	178.173580	247.7	5.792	12.1	5.2	1.09	6338	1.91	21.00
011763903-05	OBS	No	105.311702	171.315681	547.2	7.972	10.7	6.5	1.09	6338	4.94	8.29
011763903-06	OBS	No	435.132052	414.609181	2081.0	28.622	10.5	7.1	1.09	6338	5.99	1.25
011763903-07	OBS	No	178.238400	152.122297	245.5	2.872	7.8	3.3	1.09	6338	1.92	4.11
011763903-08	OBS	No	328.522444	205.781399	337.2	4.654	8.8	5.3	1.09	6338	2.28	1.82
011763903-09	OBS	No	178.266062	151.378669	389.6	6.875	8.2	5.5	1.09	6338	2.35	4.11
011763903-10	OBS	No	144.134005	141.423364	407.6	3.847	8.0	6.0	1.09	6338	2.57	5.46

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011763903-01	OBS	FP	0.00	1	0	1	1	LPP_DV—CENT_RESOLVED_OFFSET—EPHEM_MATCH
011763903-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_ZUMA—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_ALT—CENT_FEW_DIFFS
011763903-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—TRANS_GAPPED—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011763903-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_RUBBLE_MARSHALL_TRACKER—ALL_TRANS_CHASES—CENT_FEW_DIFFS—HALO_GHOST
011763903-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—TRANS_GAPPED—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
011763903-10	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—ALL_TRANS_CHASES—MOD_POS_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—CENT_FEW_DIFFS

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

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

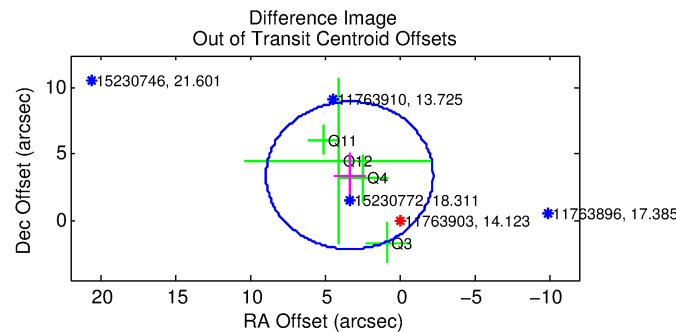
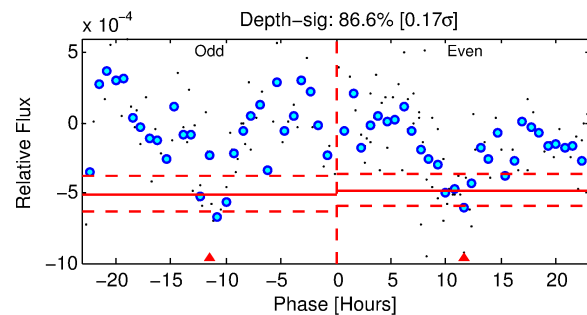
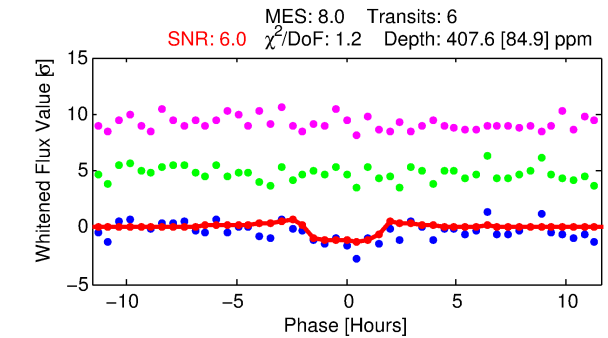
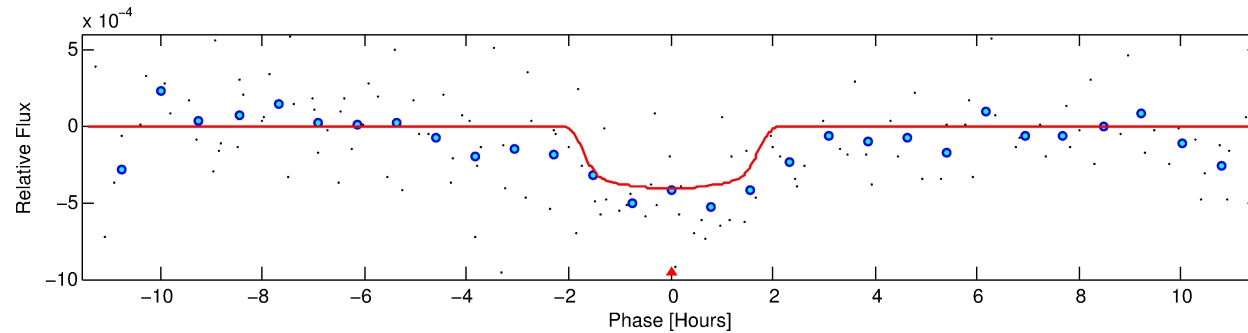
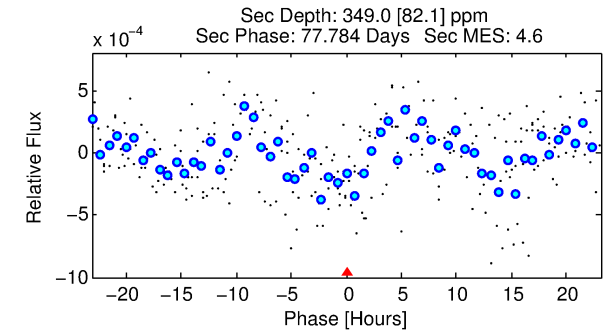
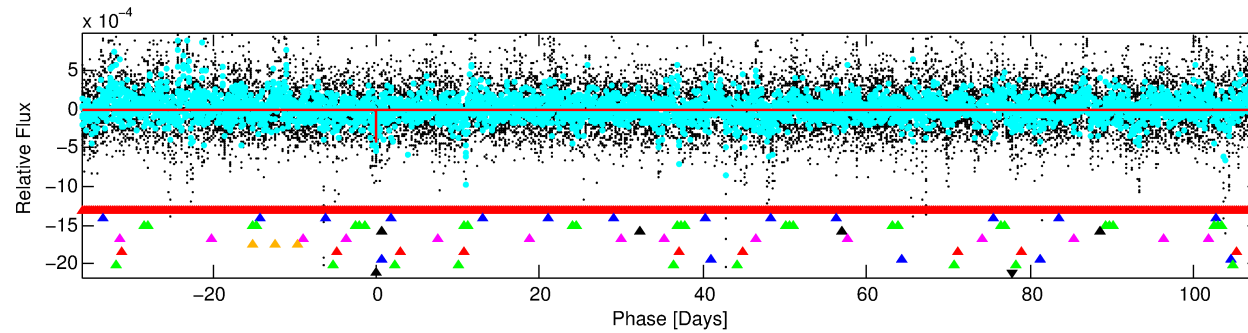
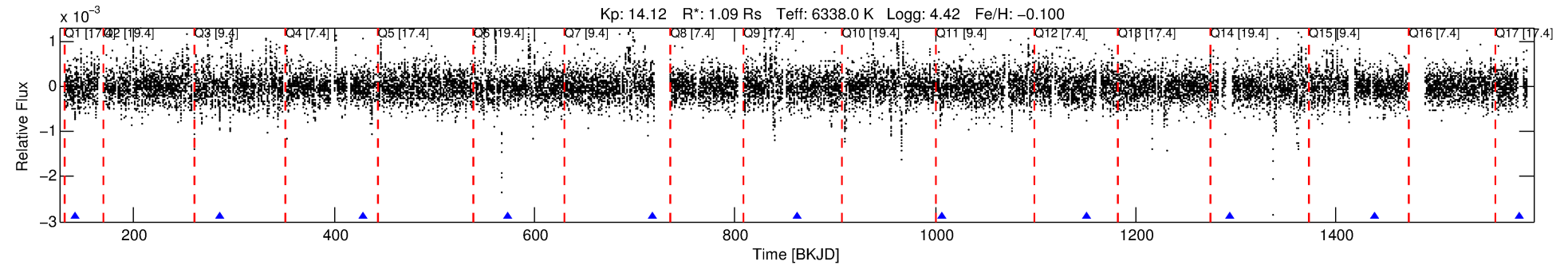
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011763903-10

No Significant Match Found

DV One-Page Summary

KIC: 11763903 Candidate: 10 of 10 Period: 144.134 d



DV Fit Results:

Period = 144.13400 [0.00236] d
Epoch = 141.4234 [0.0120] BKJD
Rp/R* = 0.0216 [0.0083]
a/R* = 141.15 [270.03]
b = 0.89 [0.44]
Seff = 5.46 [2.10]
Teq = 390 [37] K
Rp = 2.57 [1.26] Re
a = 0.5616 [0.1410] AU
Ag = 9159.08 [8061.25] [1.14σ]
Teffp = 5895 [1199] K [4.59σ]

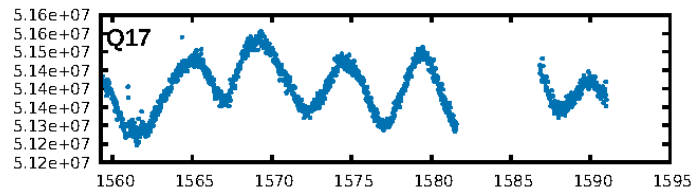
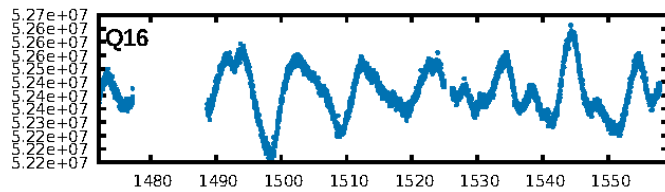
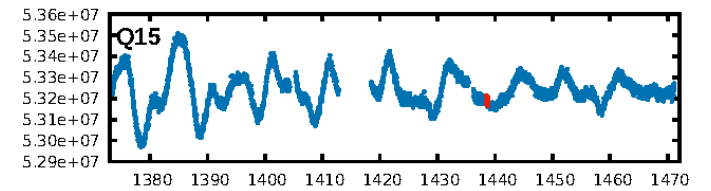
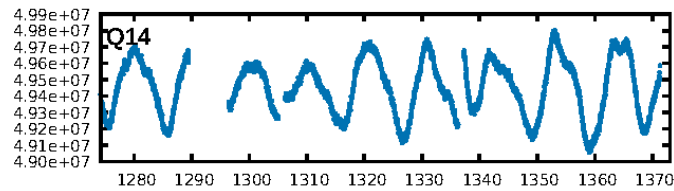
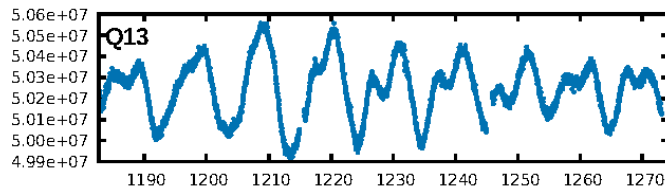
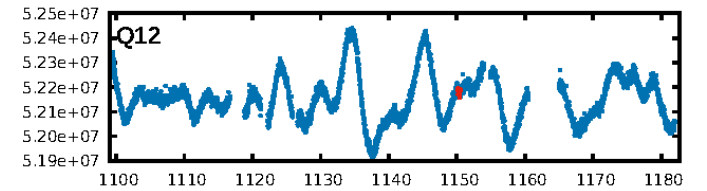
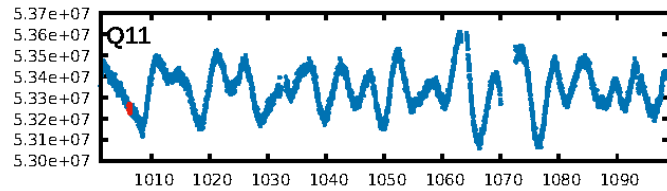
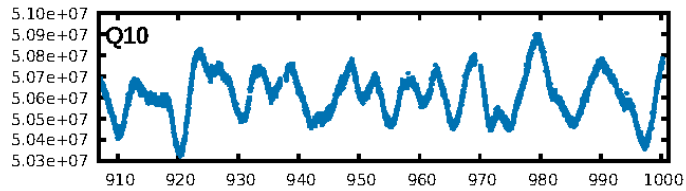
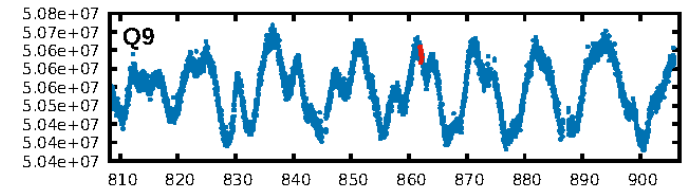
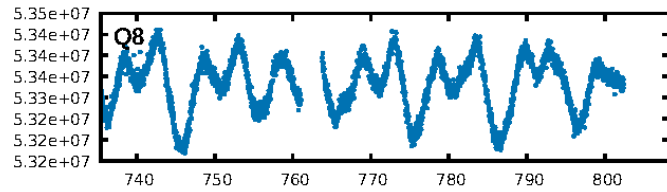
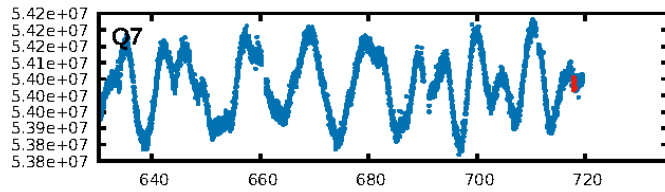
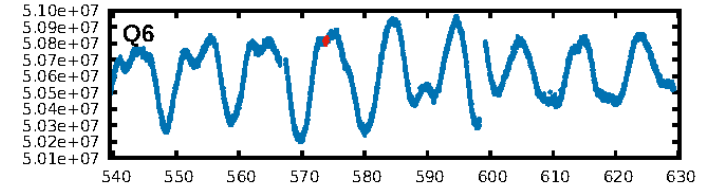
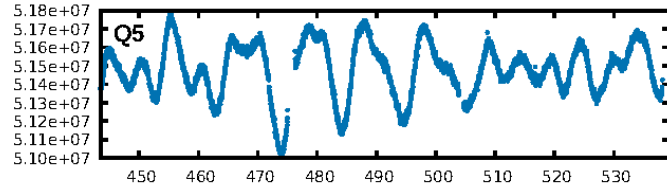
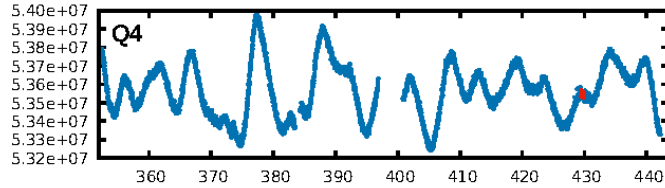
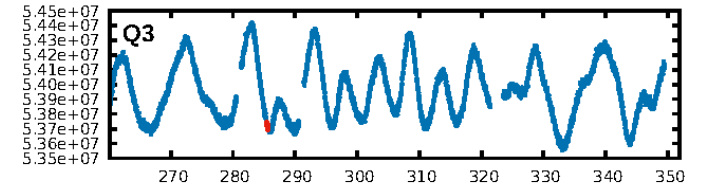
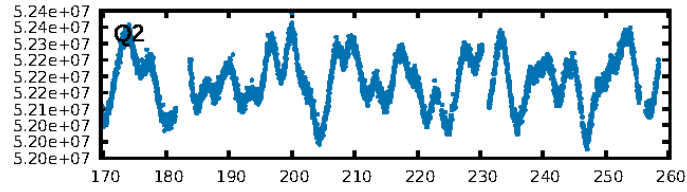
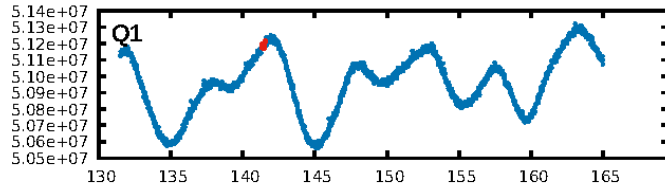
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [128.00σ]
LongPeriod-sig: 100.0% [170.49σ]
ModelChiSquare2-sig: 23.3%
ModelChiSquareGof-sig: 99.8%
Bootstrap-pfa: 2.47e-09
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -8.418
Centroid-sig: 92.6%
Centroid-so: 2.459 arcsec [2.06σ]
OotOffset-rm: 4.768 arcsec [2.56σ]
KicOffset-rm: 5.164 arcsec [2.81σ]
OotOffset-st: 0/2/2/0 [4]
KicOffset-st: 0/2/2/0 [4]
DiffImageQuality-fgm: 0.00 [0/4]
DiffImageOverlap-fno: 0.00 [0/9]

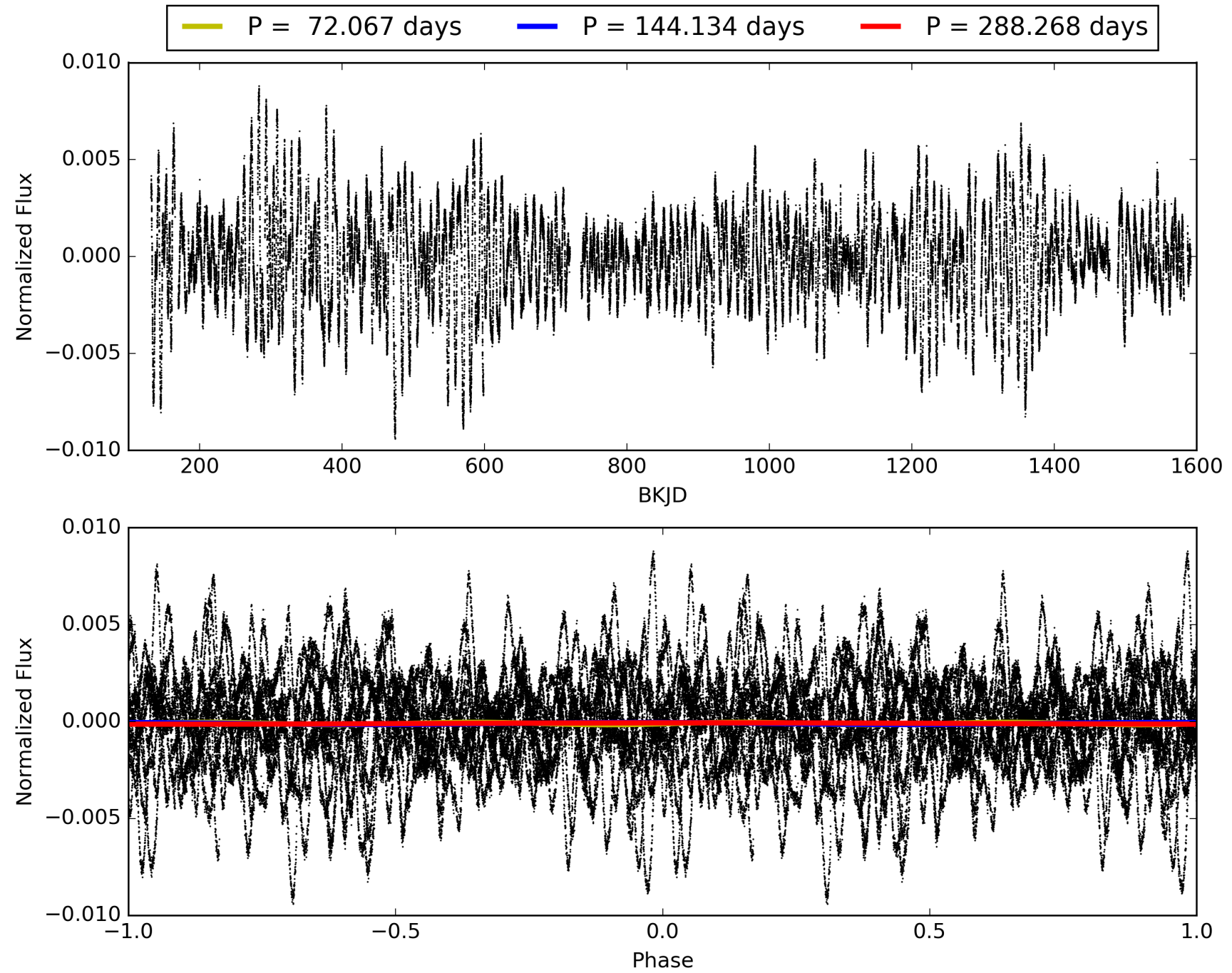
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:05:51 Z

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

TCE 011763903-10, PDC Light Curves

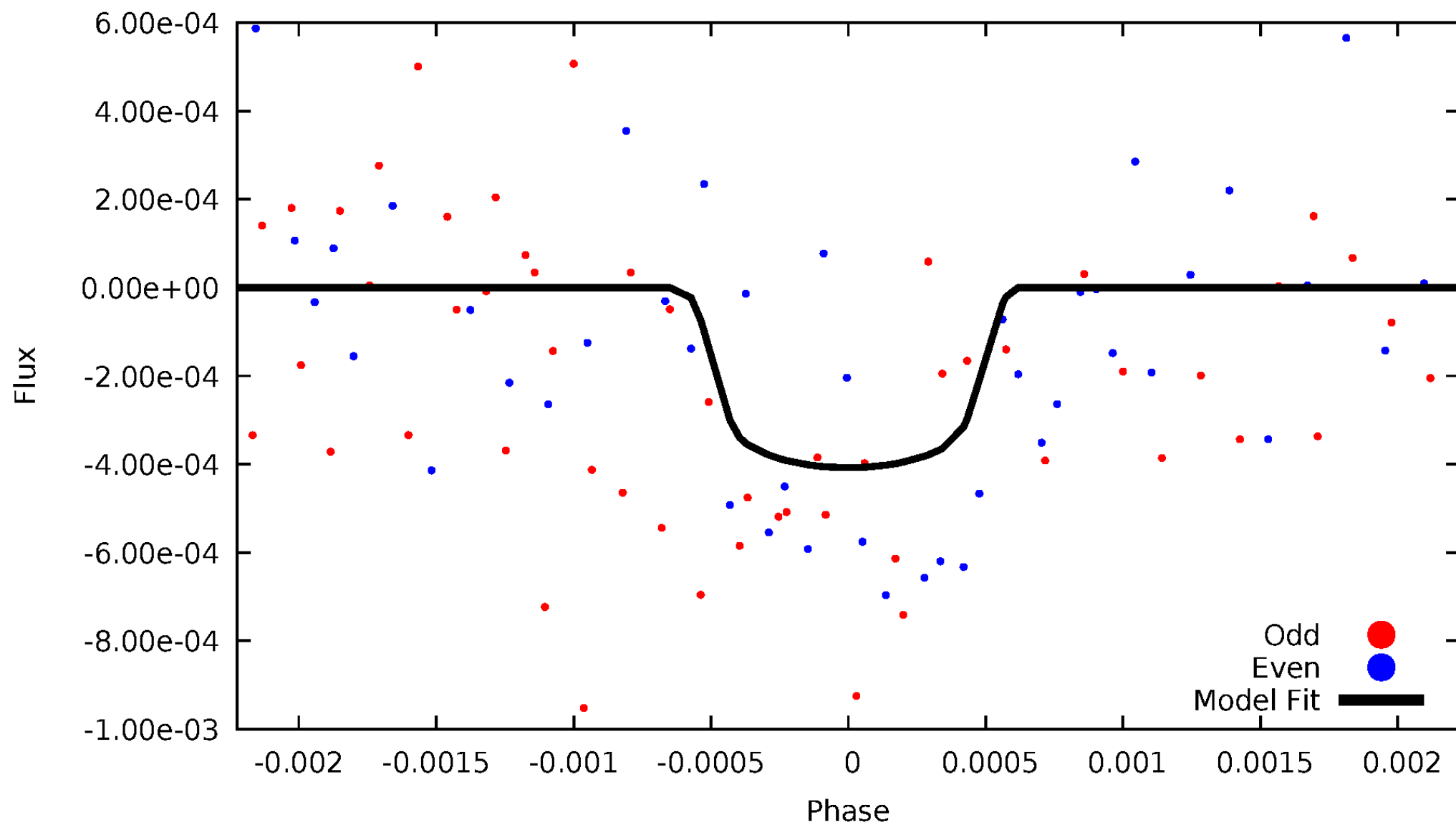


TCE 011763903-10



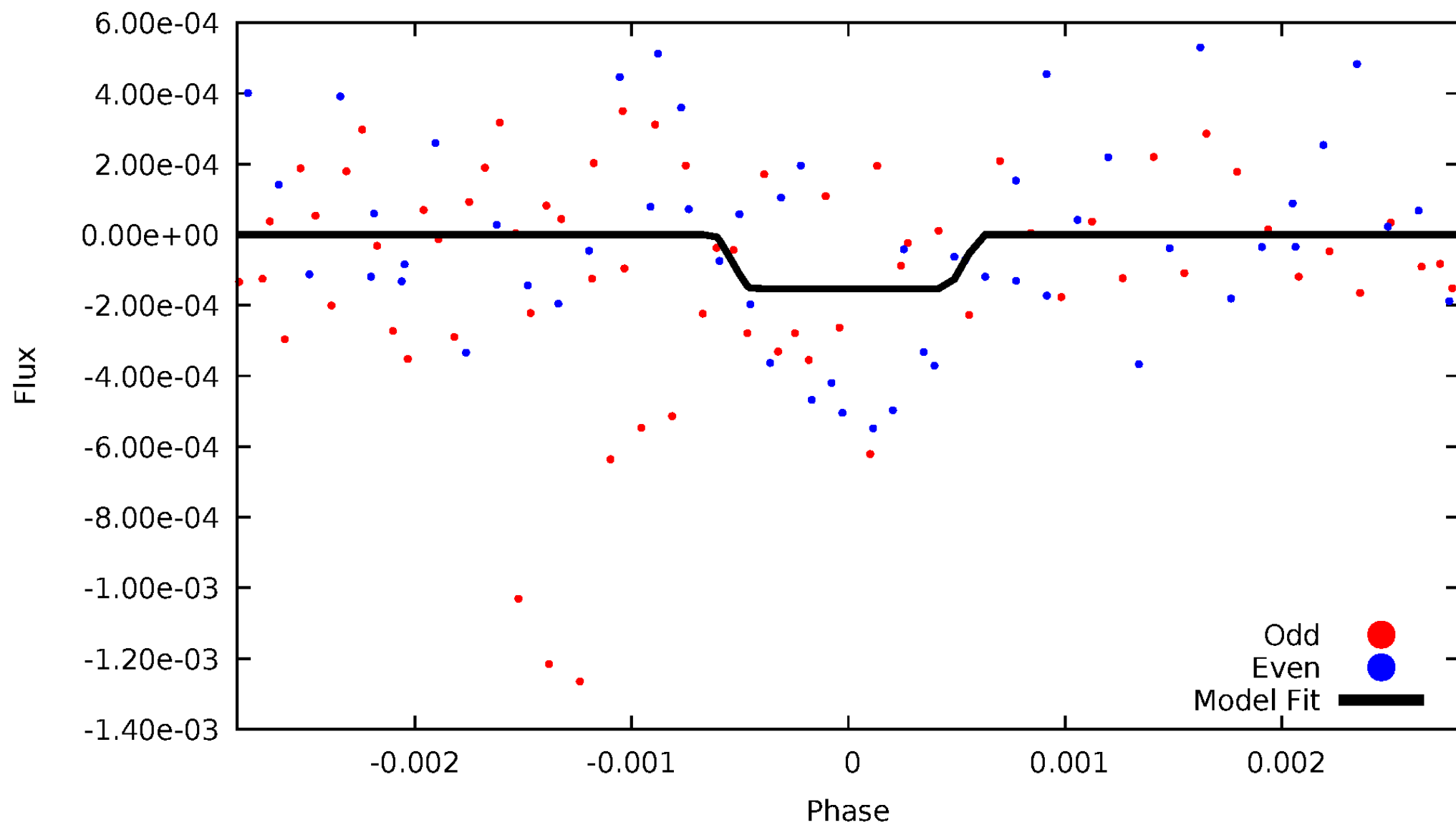
DV Odd/Even

TCE 011763903-10



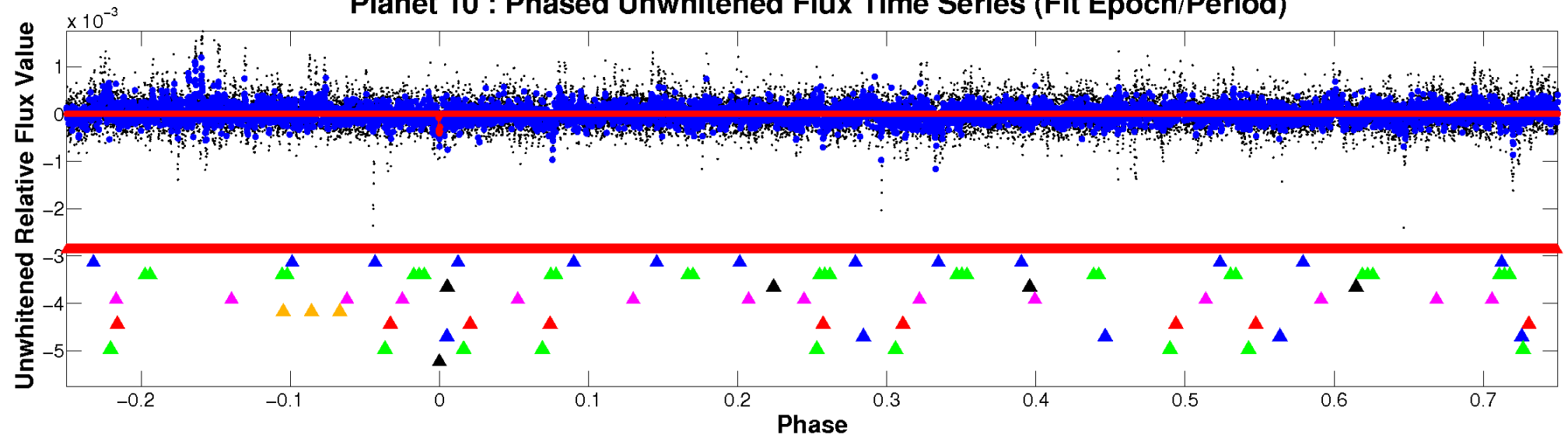
ALT Odd/Even

TCE 011763903-10

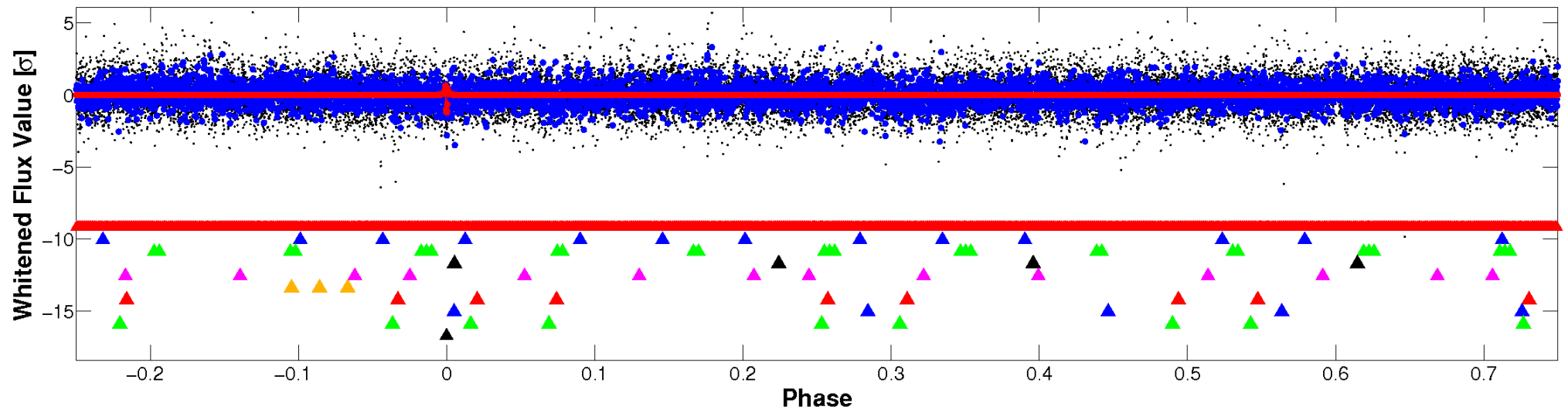


Non-Whitened Vs. Whitened Light Curve

Planet 10 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

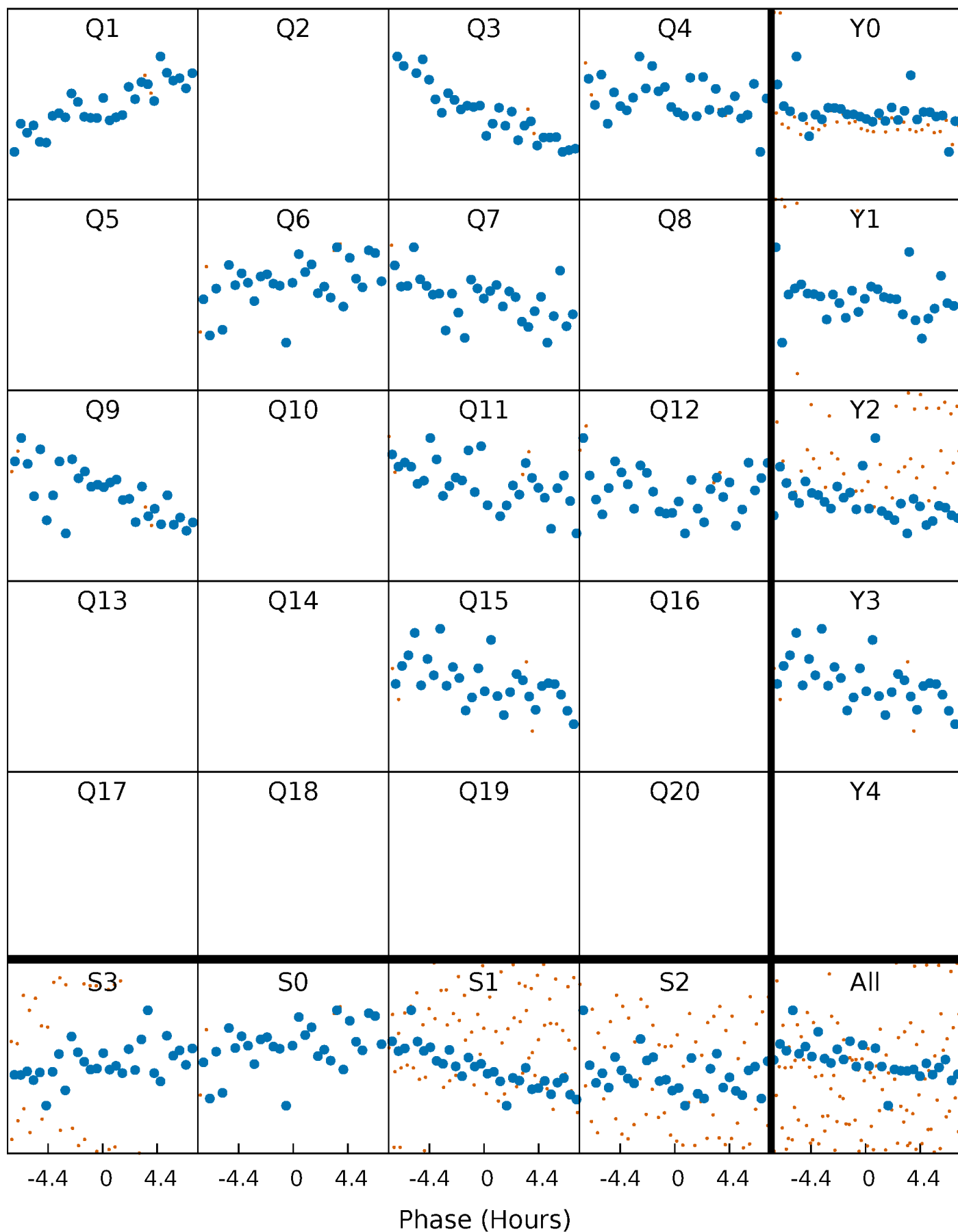


Planet 10 : Phased Whitened Flux Time Series (Fit Epoch/Period)



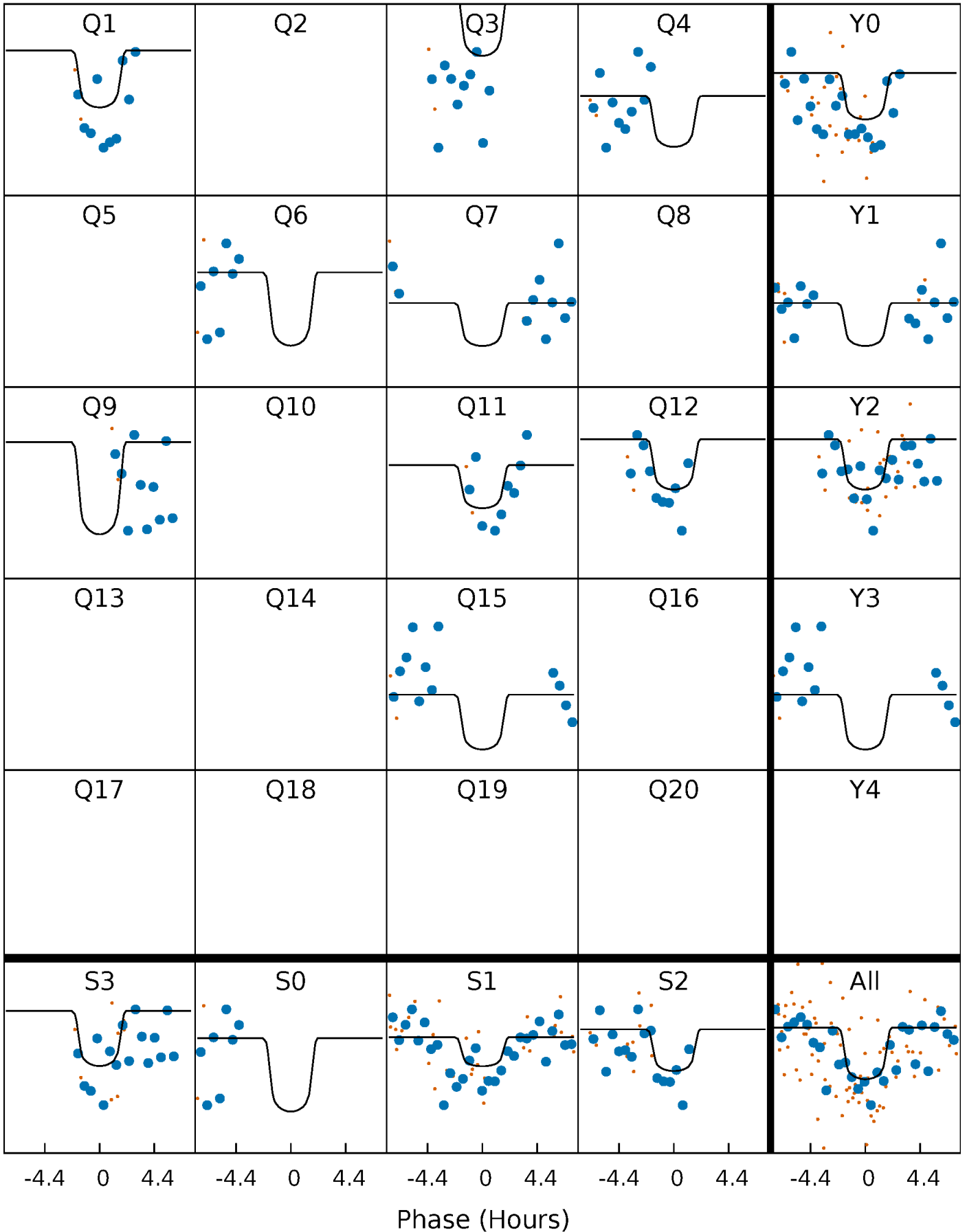
PDC Quarter-Phased Transit Curves

TCE 011763903-10 P=144.134005 Days $T_0=141.423364$ (BKJD)



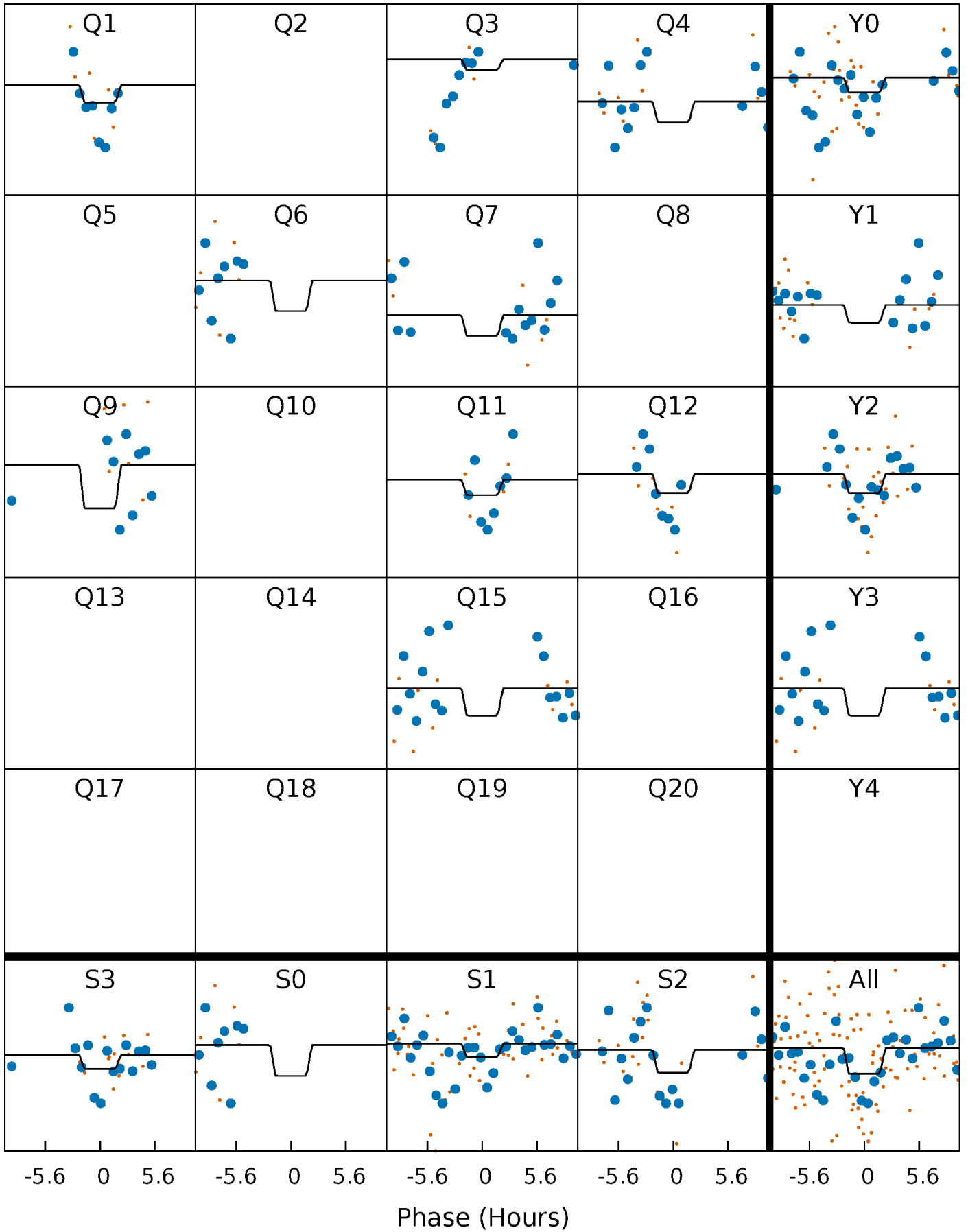
DV Quarter-Phased Transit Curves

TCE 011763903-10 $P=144.134005$ Days $T_0=141.423364$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

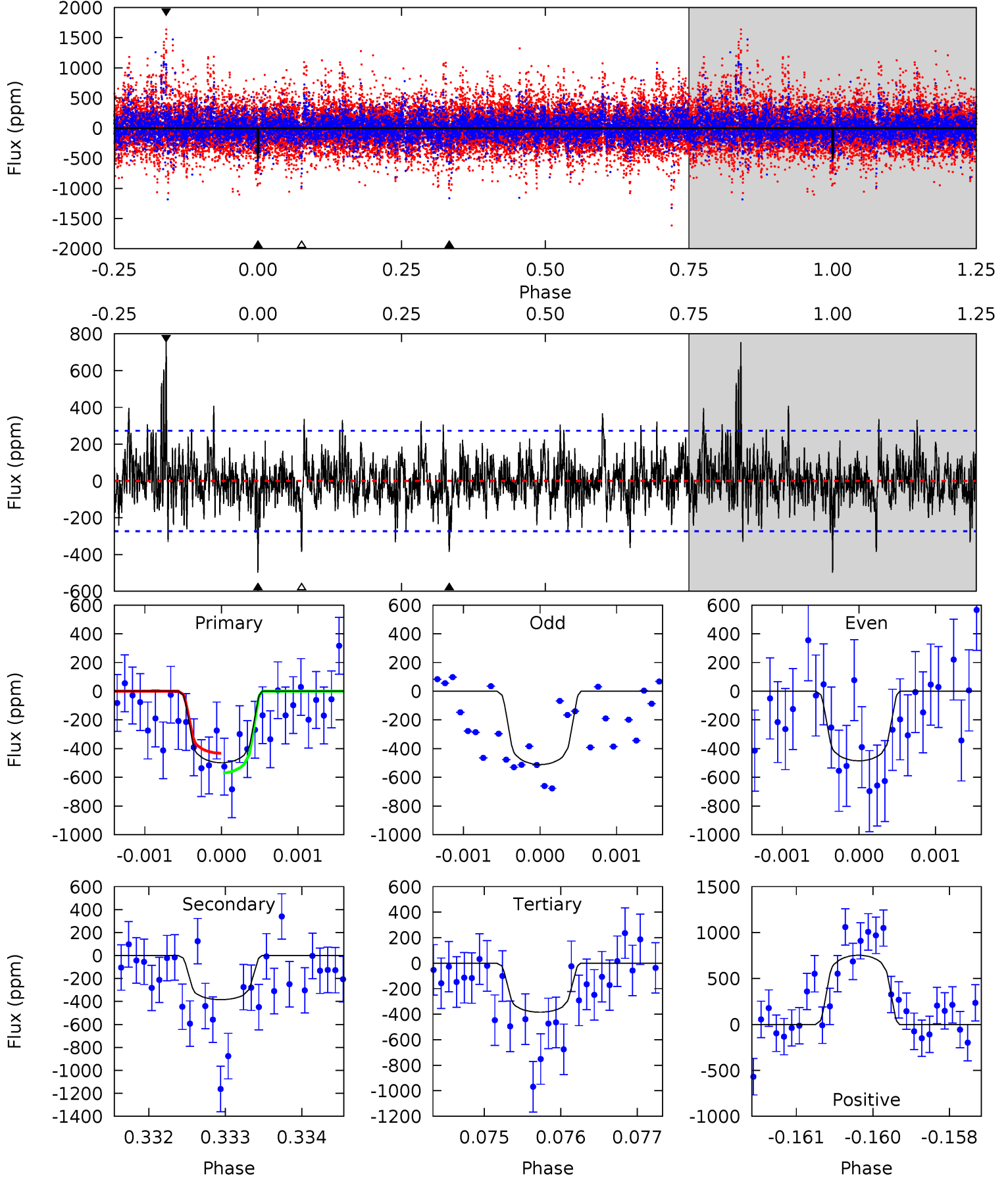
TCE 011763903-10 P=144.129772 Days $T_0=141.467358$ (BKJD)



DV Model-Shift Uniqueness Test

011763903-10, P = 144.134005 Days, E = 141.423364 Days

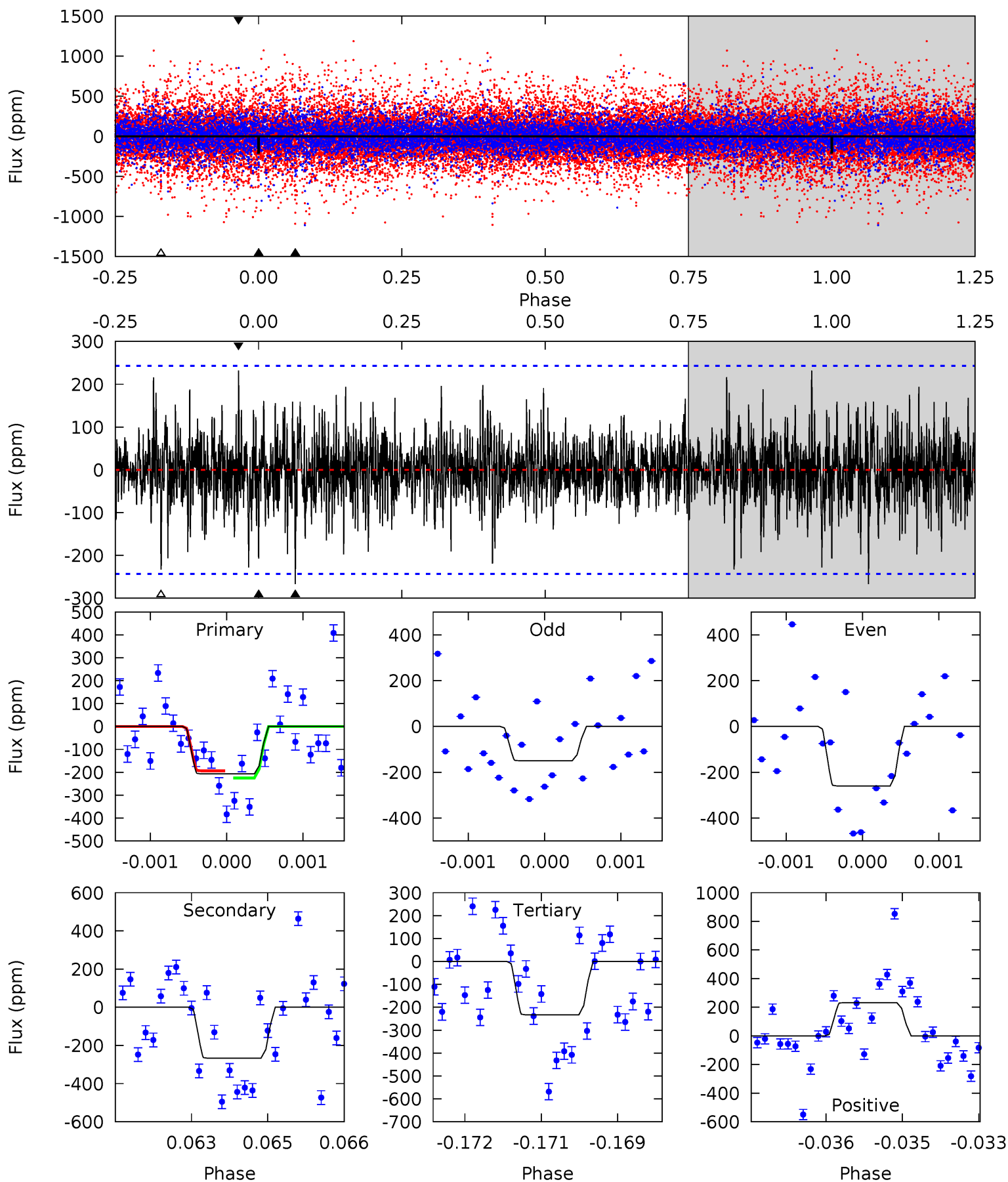
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.91	7.63	7.63	15.0	5.43	3.25	2.05	2.28	-5.06	0.00	-7.34	0.26	0.86	0.60	1.37



Alt Model-Shift Uniqueness Test

011763903-10, P = 144.129772 Days, E = 141.467358 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.62	5.96	5.20	5.18	5.43	3.25	1.25	-0.58	-0.56	0.76	0.78	1.20	0.71	0.46	0.35



Stellar Parameters For KIC 011763903

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6338^{+153}_{-210}	$4.418^{+0.065}_{-0.195}$	$-0.100^{+0.250}_{-0.300}$	$1.091^{+0.330}_{-0.118}$	$1.137^{+0.154}_{-0.154}$	$1.233^{+0.344}_{-0.641}$
	+2%/-3%	+1%/-4%	+250%/-300%	+30%/-11%	+14%/-14%	+28%/-52%
Source	PHO1	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 011763903-10 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-384 ± 50	$2.69^{+1.08}_{-1.06}$	554^{+40}_{-27}	6011^{+1914}_{-824}	9172^{+15956}_{-4560}
Alt.	-267 ± 45	$1.61^{+1.03}_{-0.89}$	554^{+38}_{-28}	7094^{+5163}_{-1599}	17114^{+70546}_{-10746}

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 $A_{obs} \gg 1.0$

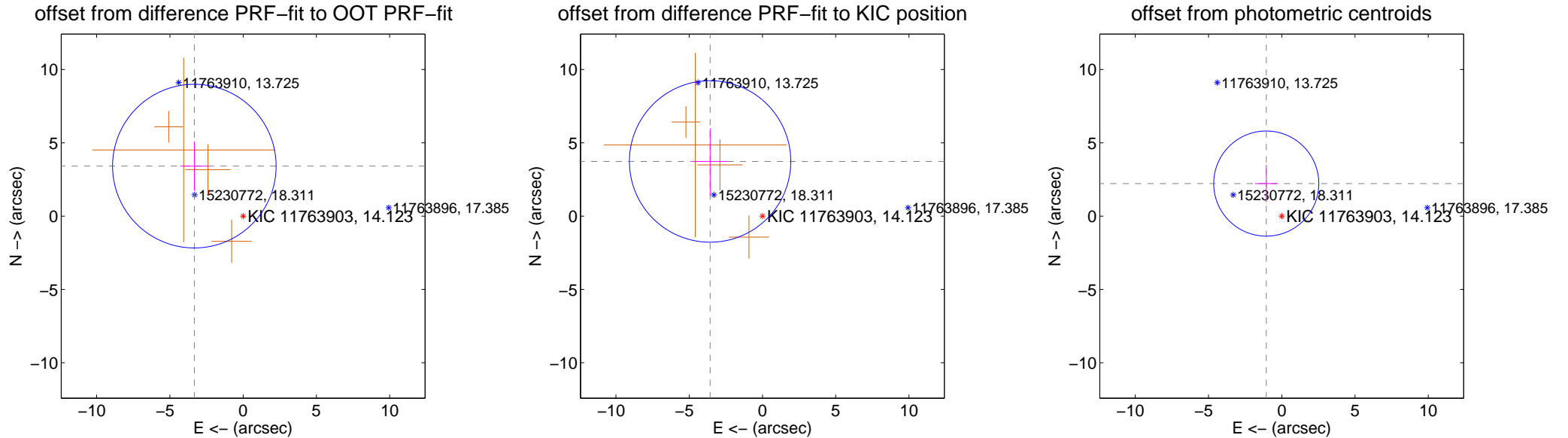
DV Centroid Data

Supplemental centroid analysis for 011763903-10. Kepler magnitude: 14.12. Transit SNR 6.02

There are 0 quarters with good PRF difference image offsets

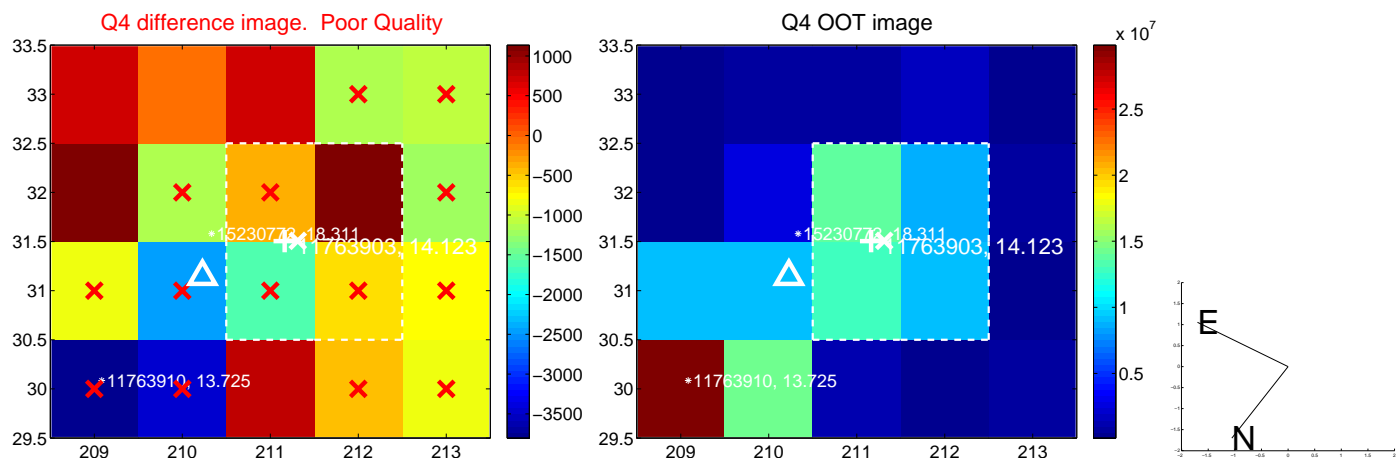
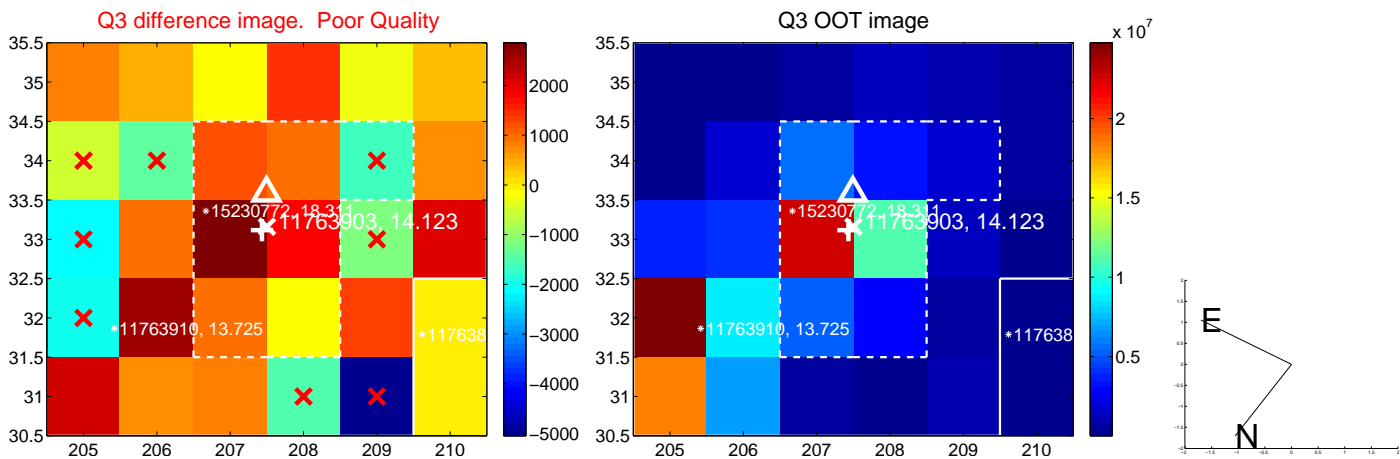
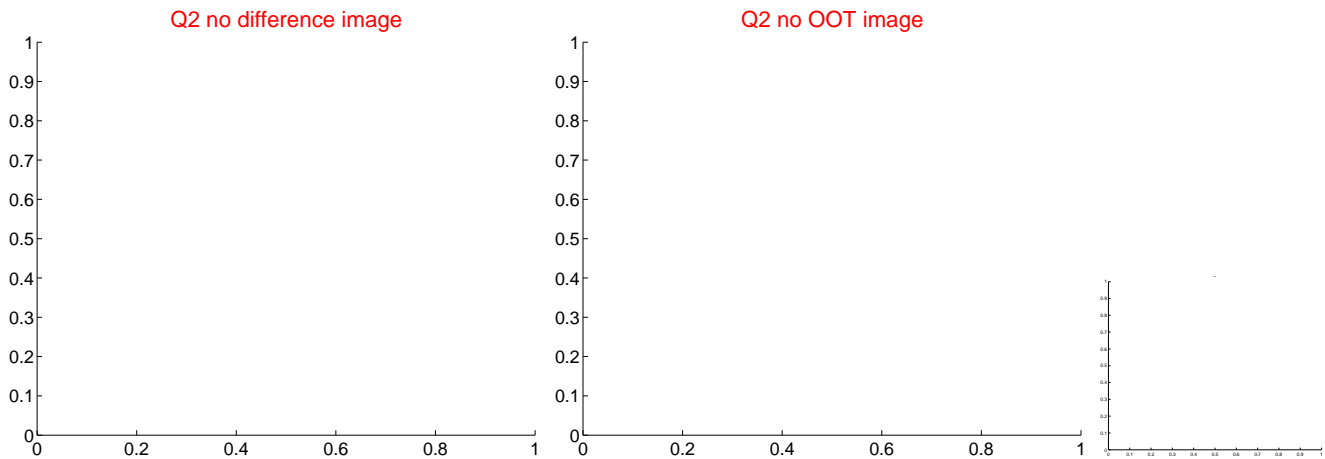
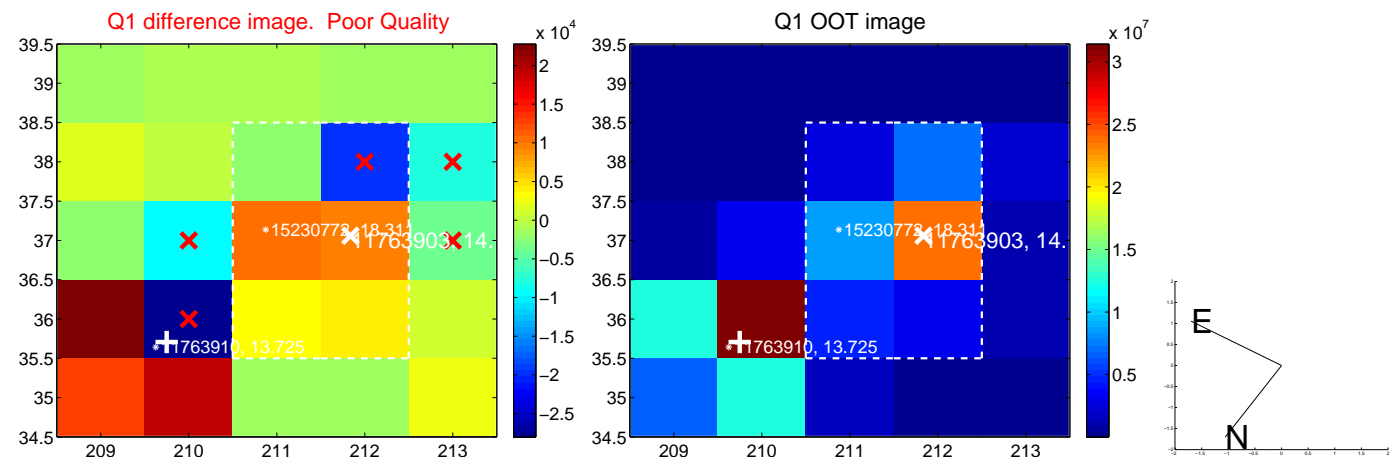
The direct PRF centroid is offset from the target star catalog position by about 0.62 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	4.768 ± 1.861	2.56	3.331 ± 0.965	3.411 ± 1.679
PRF-fit source offset from KIC position	5.164 ± 1.836	2.81	3.573 ± 1.204	3.728 ± 2.266
photometric centroid source offset	2.46 ± 1.20	2.06	1.06 ± 0.76	2.22 ± 1.27

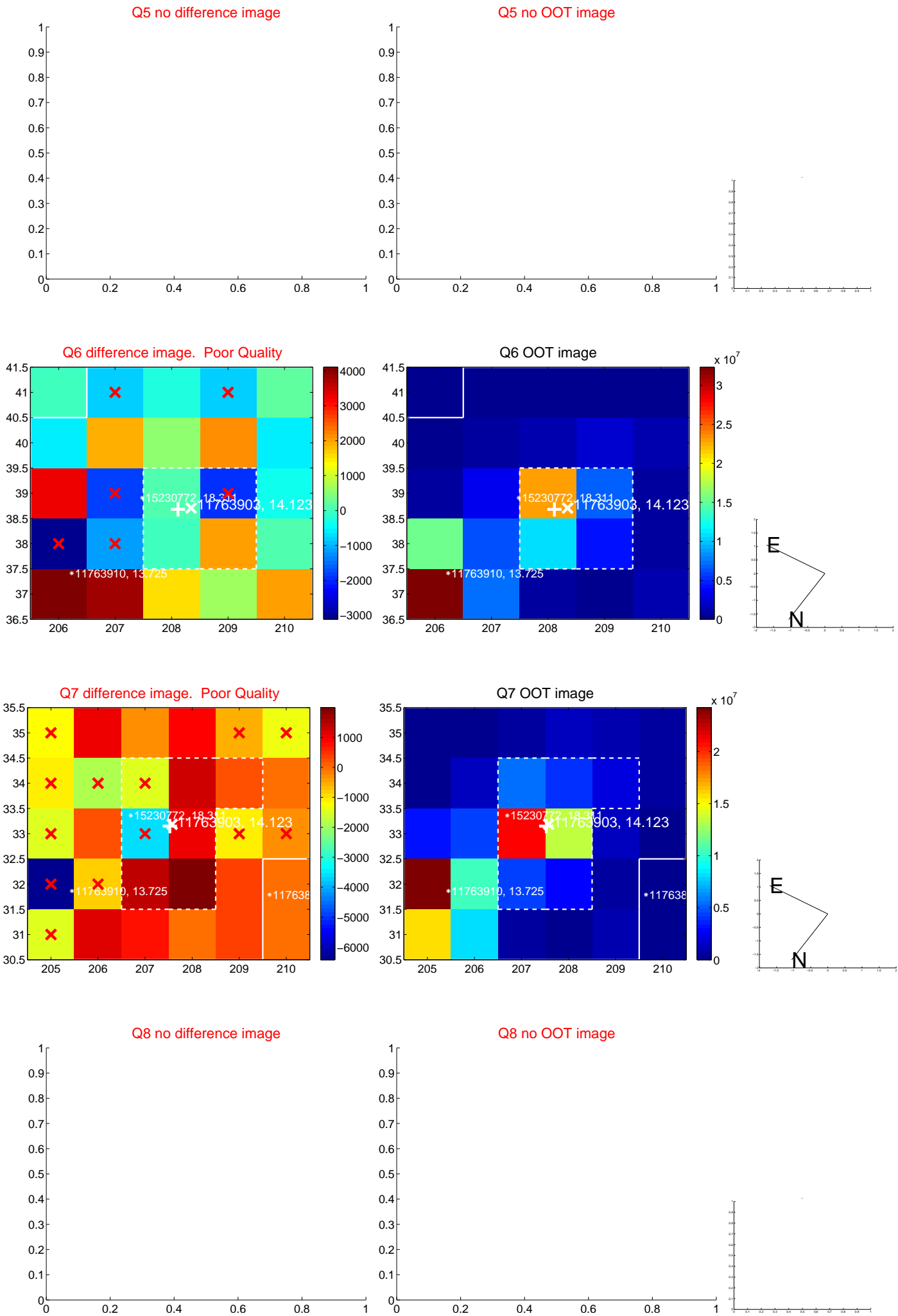


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

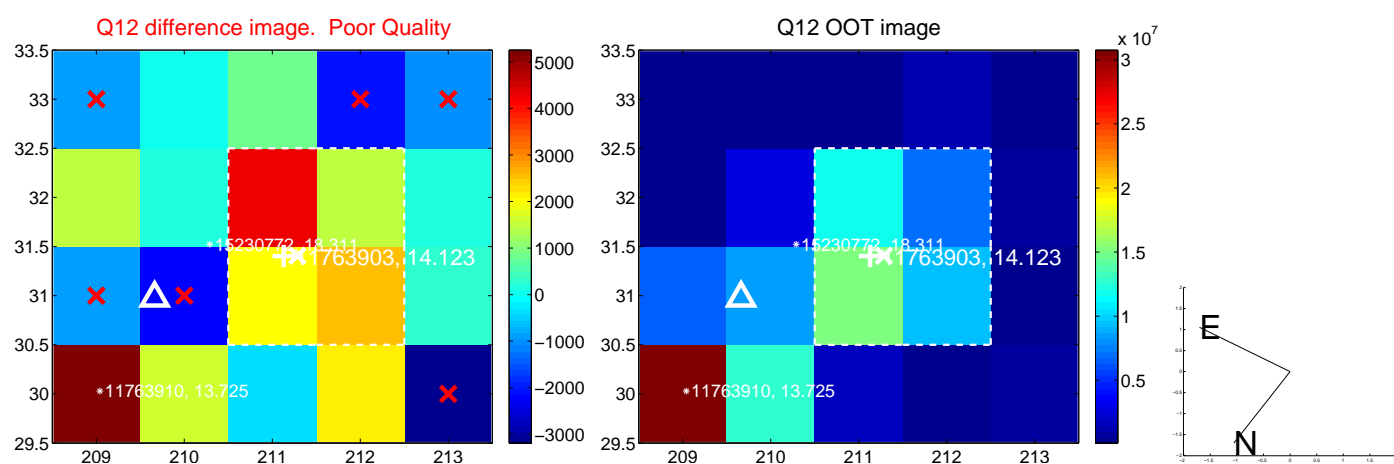
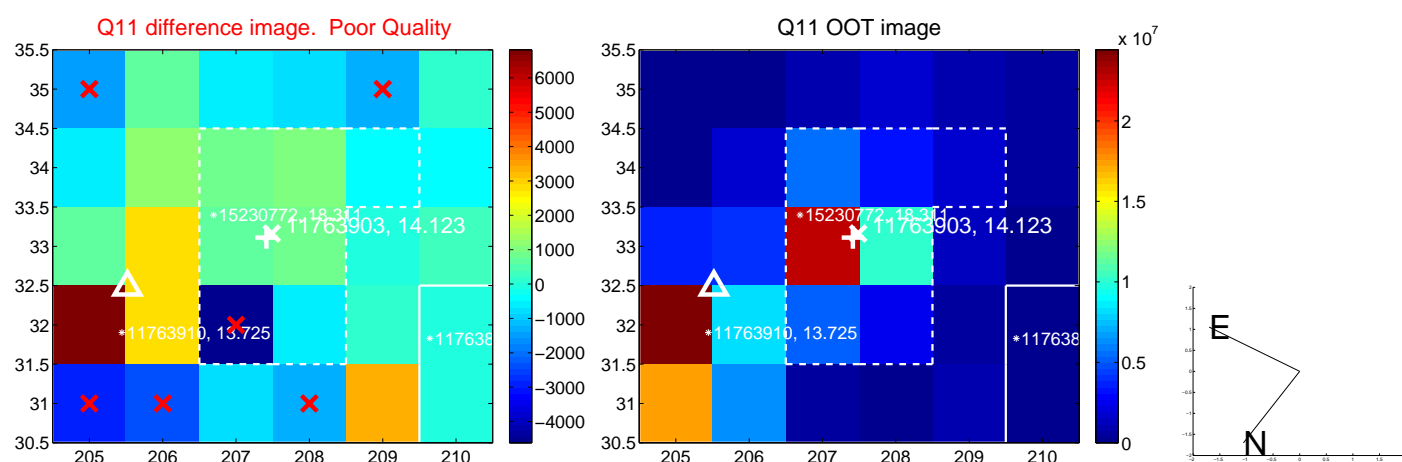
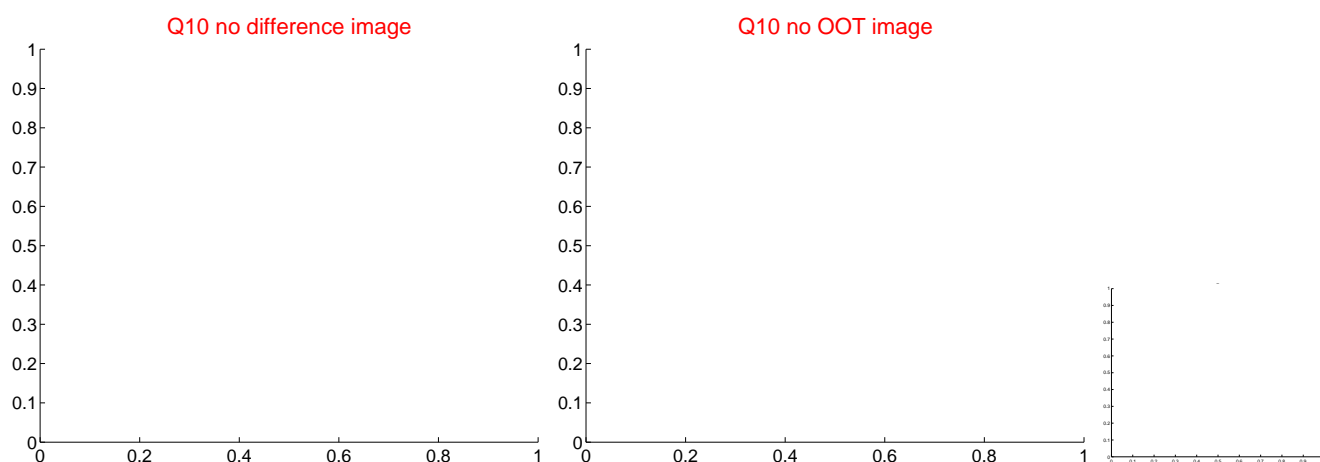
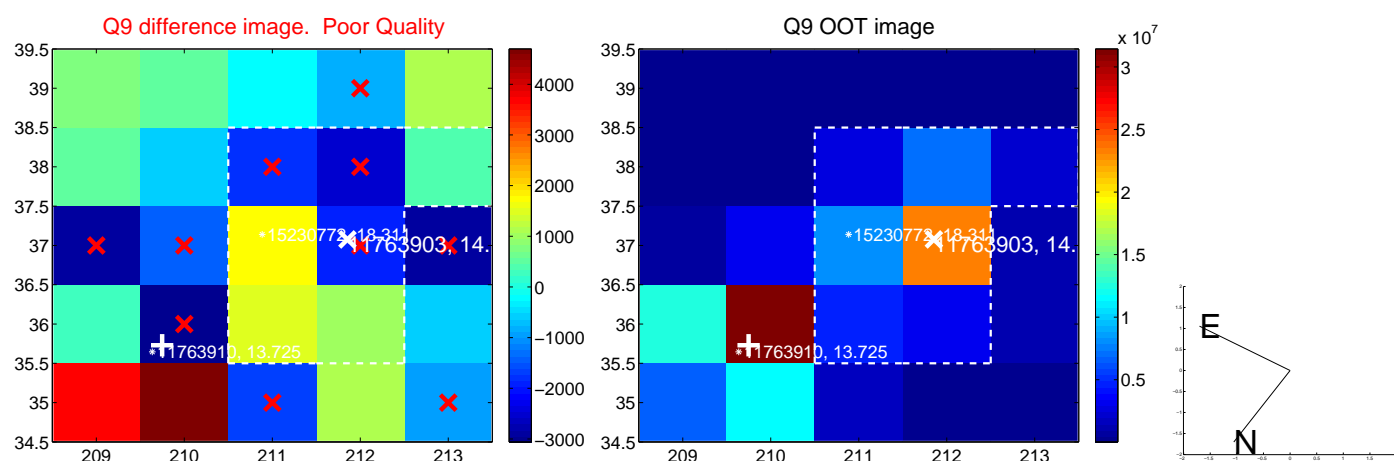
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



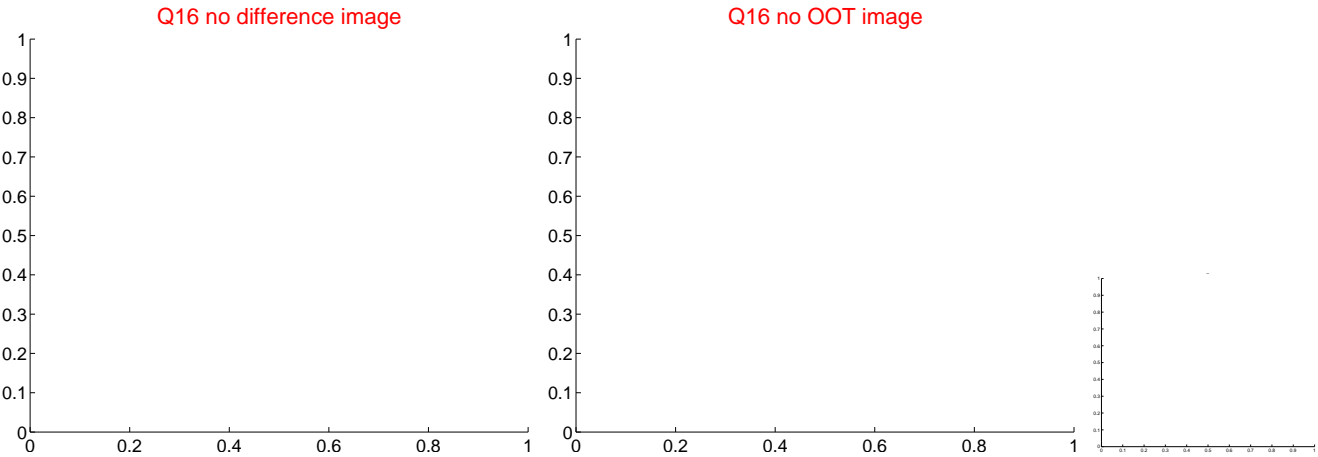
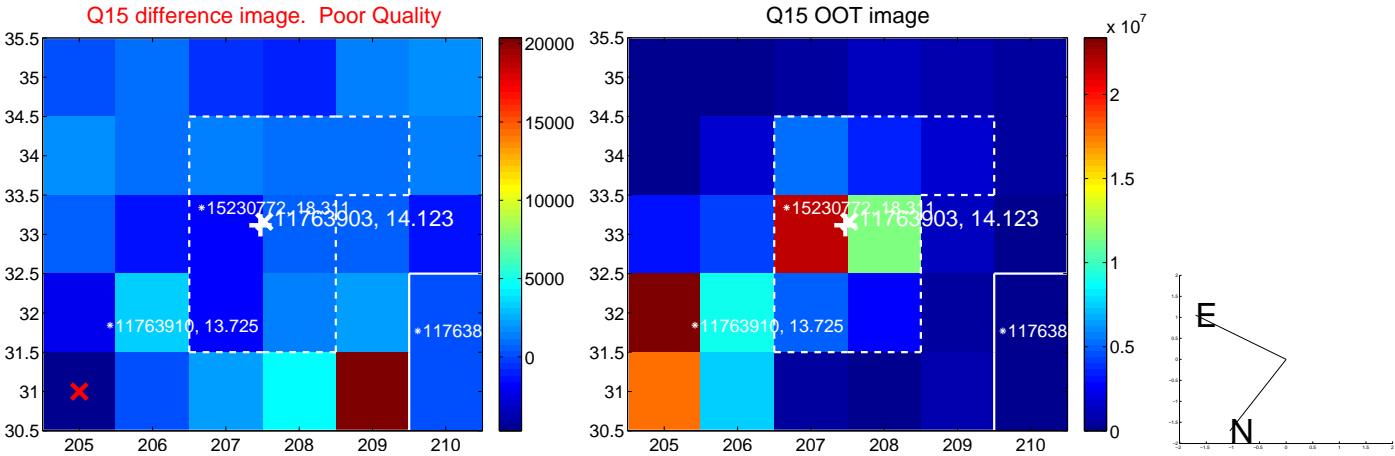
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



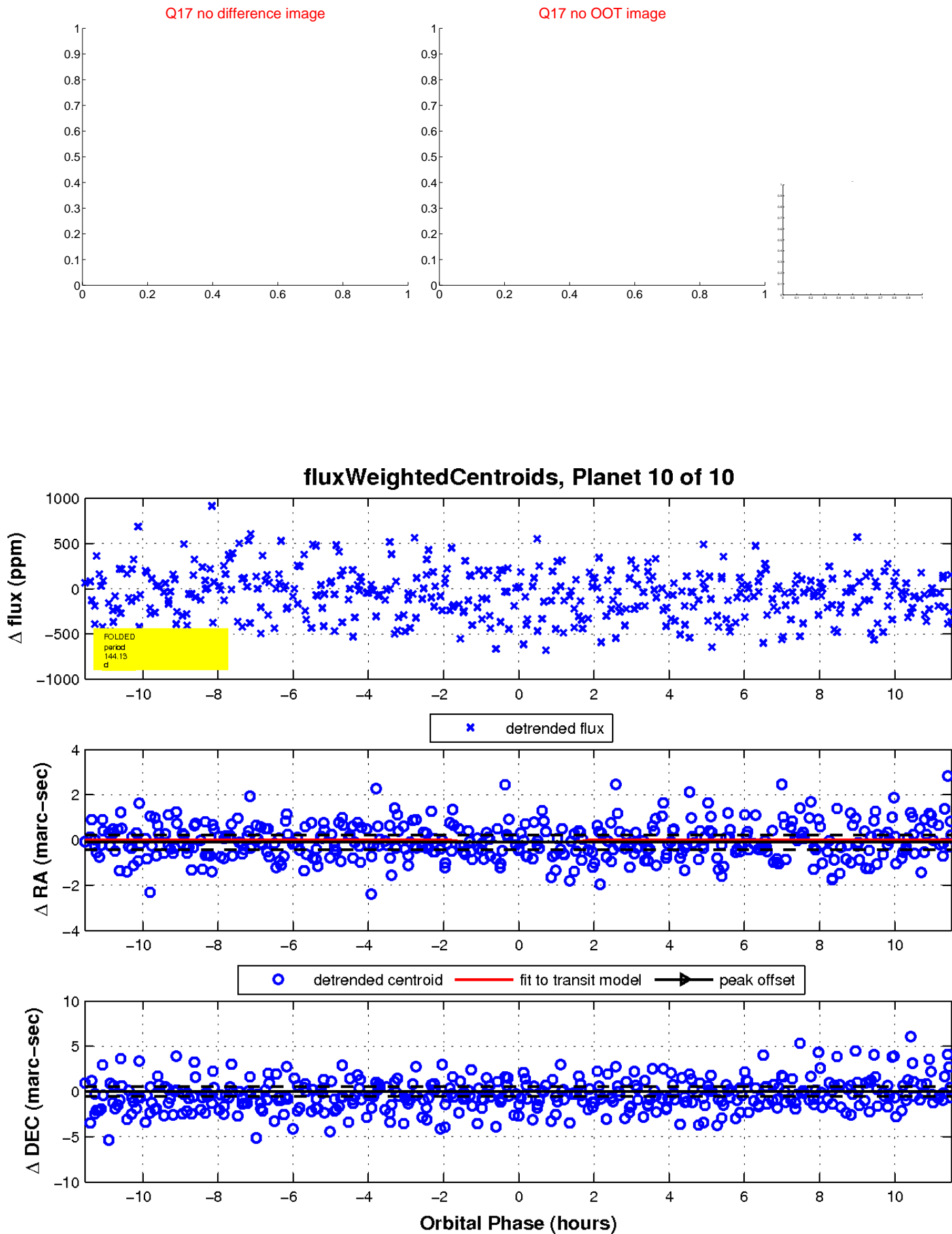
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

