

KIC 006507888

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})
006507888-01	OBS	No	333.718841	148.888920	1443.7	3.331	14.4	8.1	0.56	3949	2.22	0.11
006507888-02	OBS	No	610.794592	226.196180	1289.2	4.896	11.5	6.8	0.56	3949	2.02	0.05
006507888-03	OBS	No	365.271334	371.332735	1160.4	4.417	11.8	6.1	0.56	3949	1.94	0.10
006507888-04	OBS	No	468.990012	171.941716	445.7	5.075	9.4	2.6	0.56	3949	1.28	0.07
006507888-05	OBS	No	468.987084	173.215712	91.2	2.366	10.4	0.5	0.56	3949	0.63	0.07
006507888-06	OBS	No	468.991732	173.106538	624.1	12.184	9.5	2.2	0.56	3949	1.37	0.07

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
006507888-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
006507888-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—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.

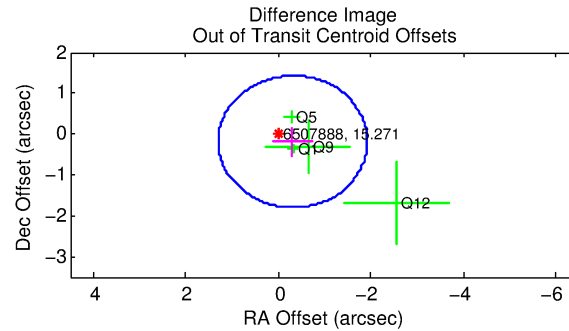
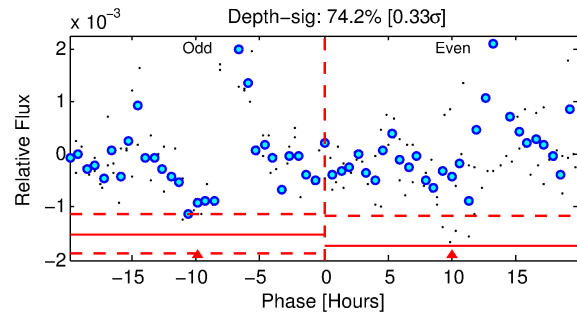
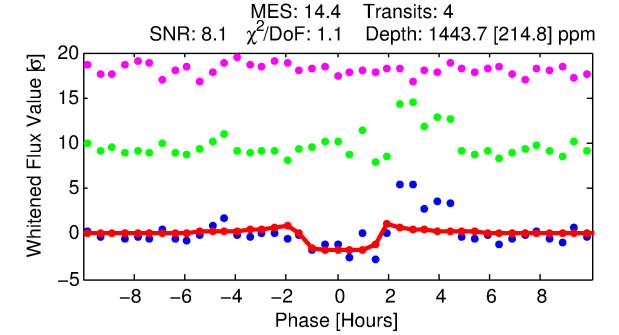
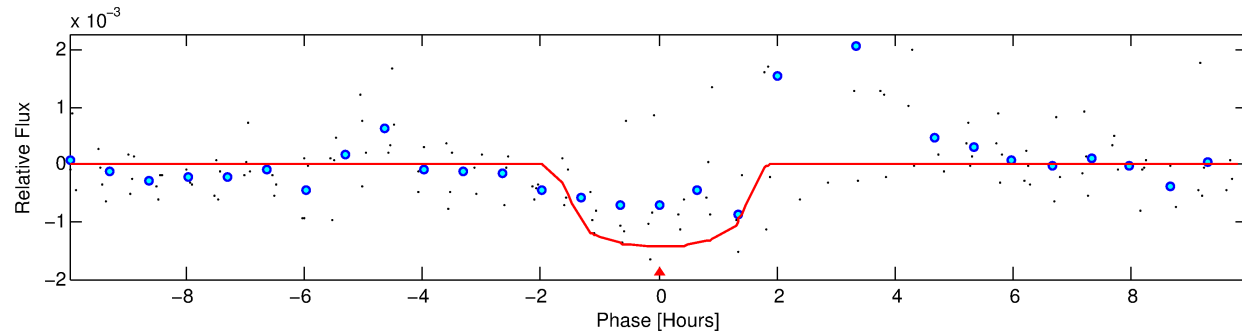
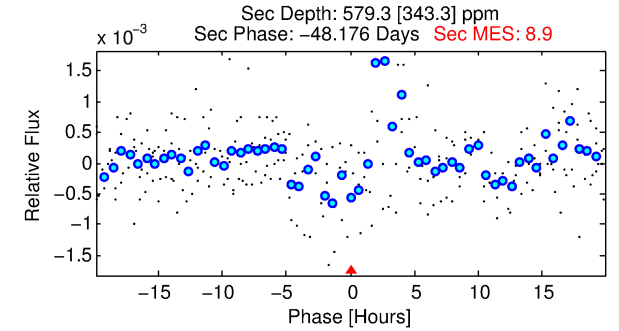
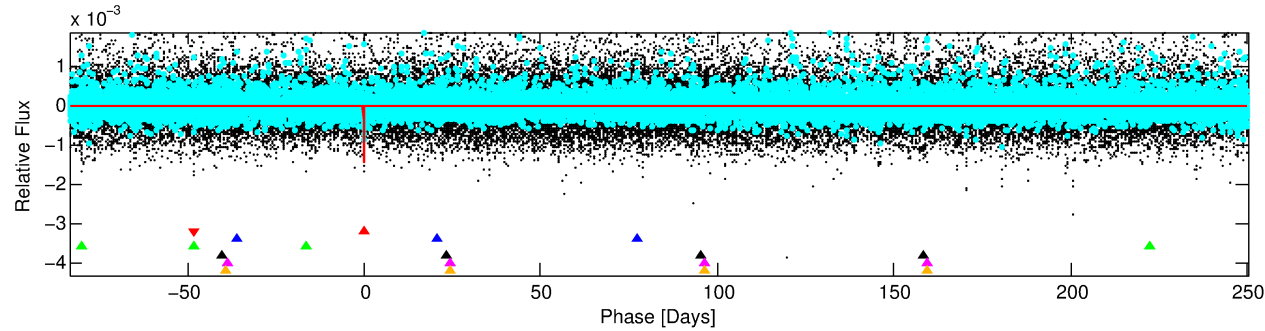
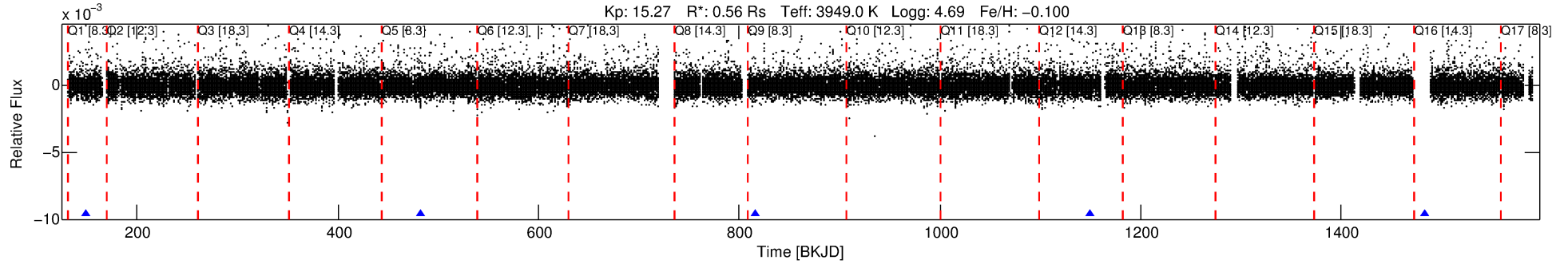
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-01

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 1 of 6 Period: 333.719 d



DV Fit Results:

Period = 333.71884 [0.00339] d
Epoch = 148.8889 [0.0081] BKJD
Rp/R* = 0.0364 [0.0333]
a/R* = 632.79 [2322.91]
b = 0.63 [3.61]
Seff = 0.11 [0.01]
Teq = 148 [3] K
Rp = 2.22 [2.03] Re
a = 0.7767 [0.0271] AU
Ag = 39042.29 [75059.68] [0.52σ]
Teffp = 3212 [1544] K [1.98σ]

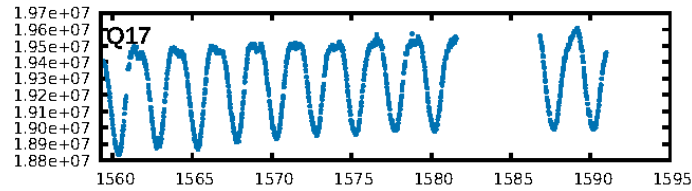
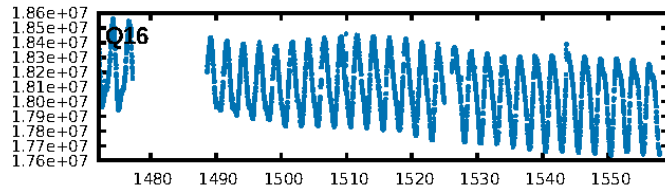
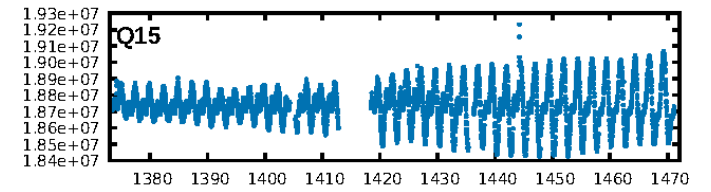
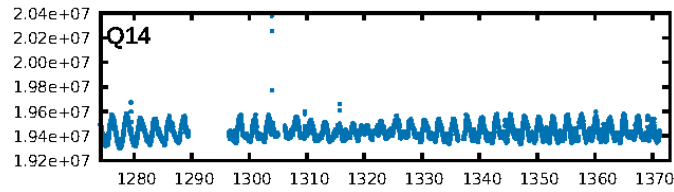
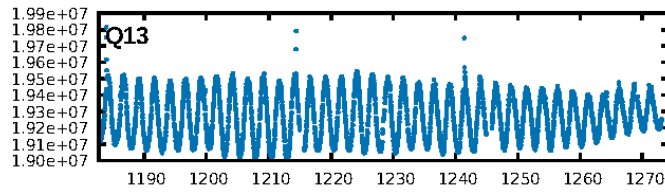
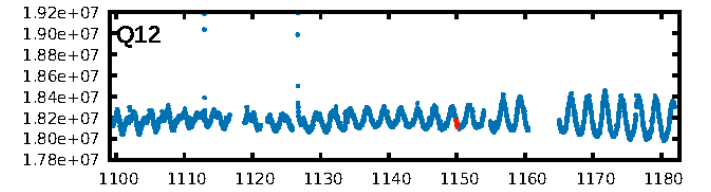
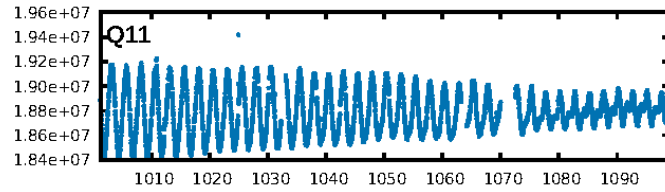
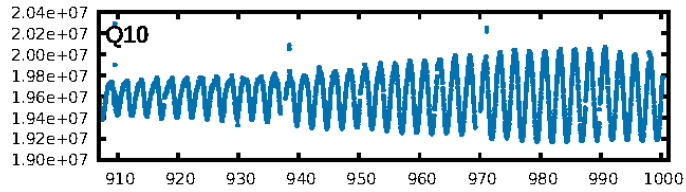
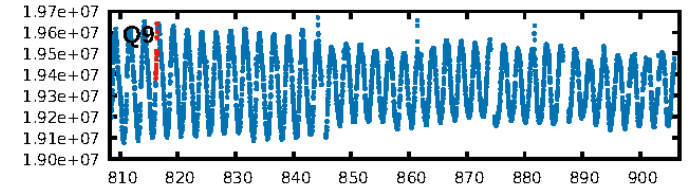
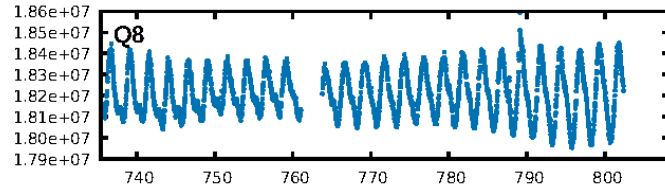
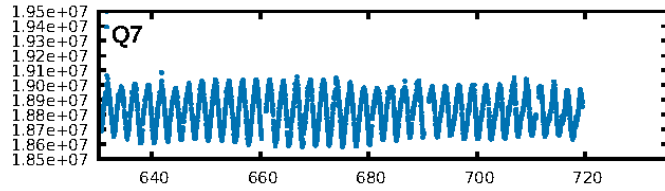
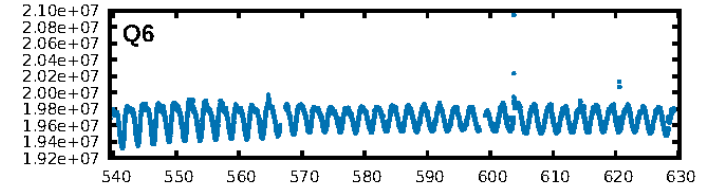
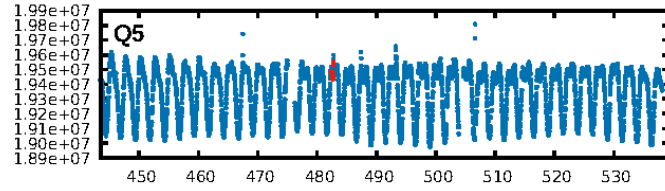
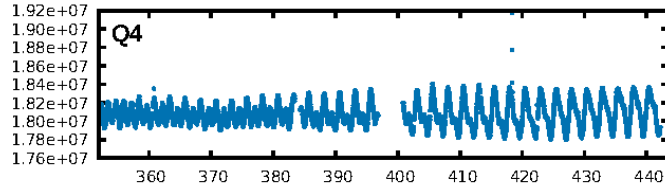
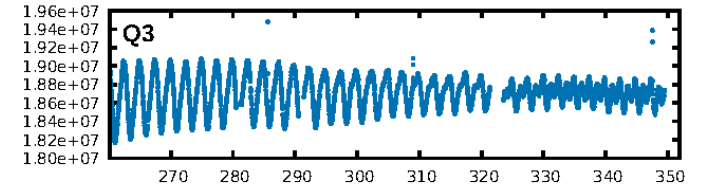
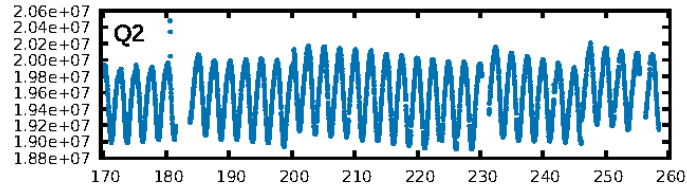
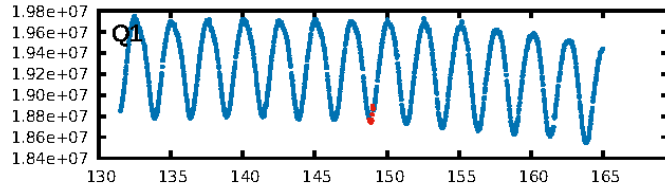
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [136.89σ]
ModelChiSquare2-sig: 81.4%
ModelChiSquareGof-sig: 96.8%
Bootstrap-pfa: 6.95e-18
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 2.075
Centroid-sig: 44.8%
Centroid-so: 0.843 arcsec [0.84σ]
OotOffset-rm: 0.362 arcsec [0.67σ]
OotOffset-st: 0/0/1/3 [4]
KicOffset-rm: 0.497 arcsec [0.80σ]
KicOffset-st: 0/0/1/3 [4]
DiffImageQuality-fgm: 0.50 [2/4]
DiffImageOverlap-fno: 1.00 [4/4]

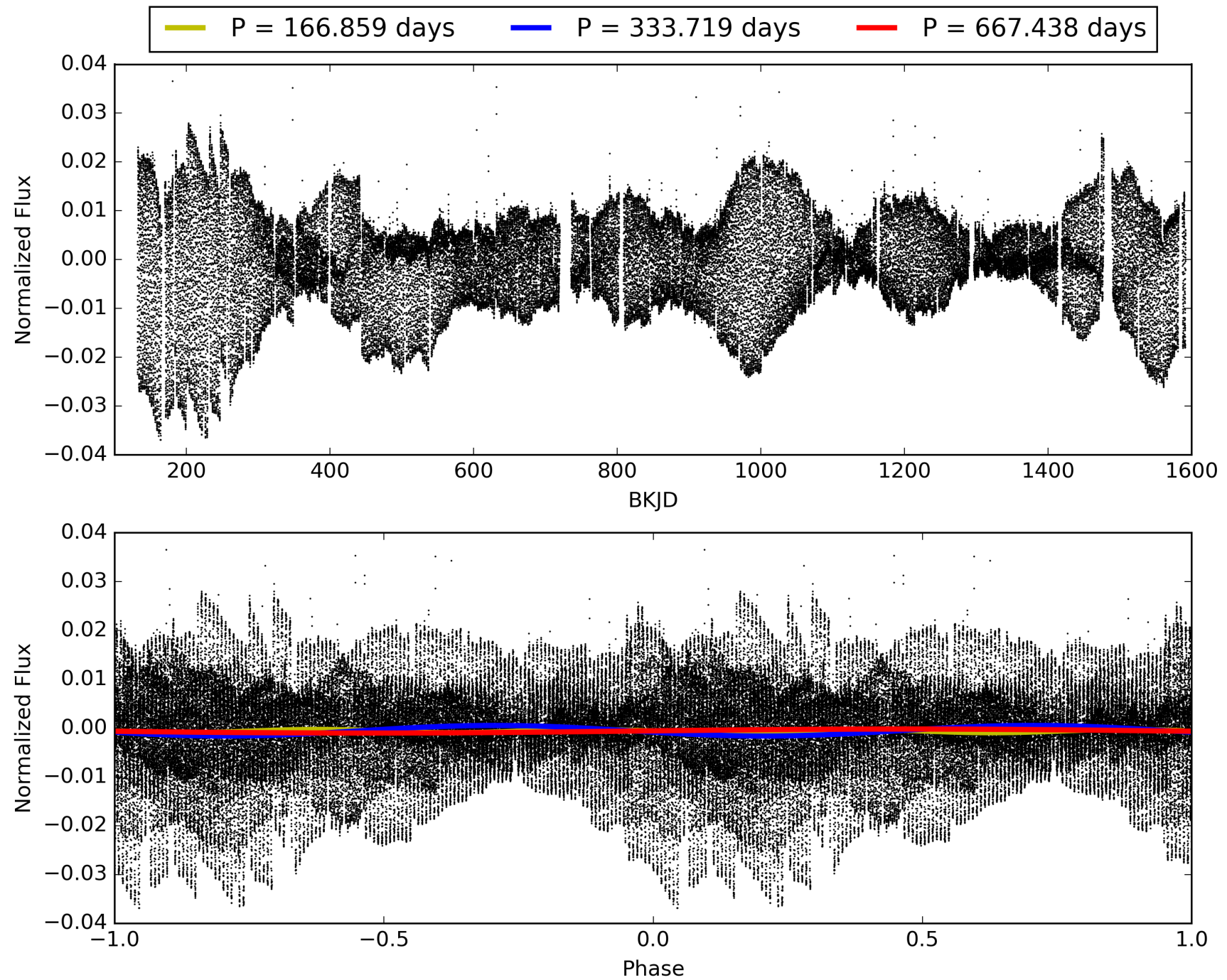
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 006507888-01, PDC Light Curves

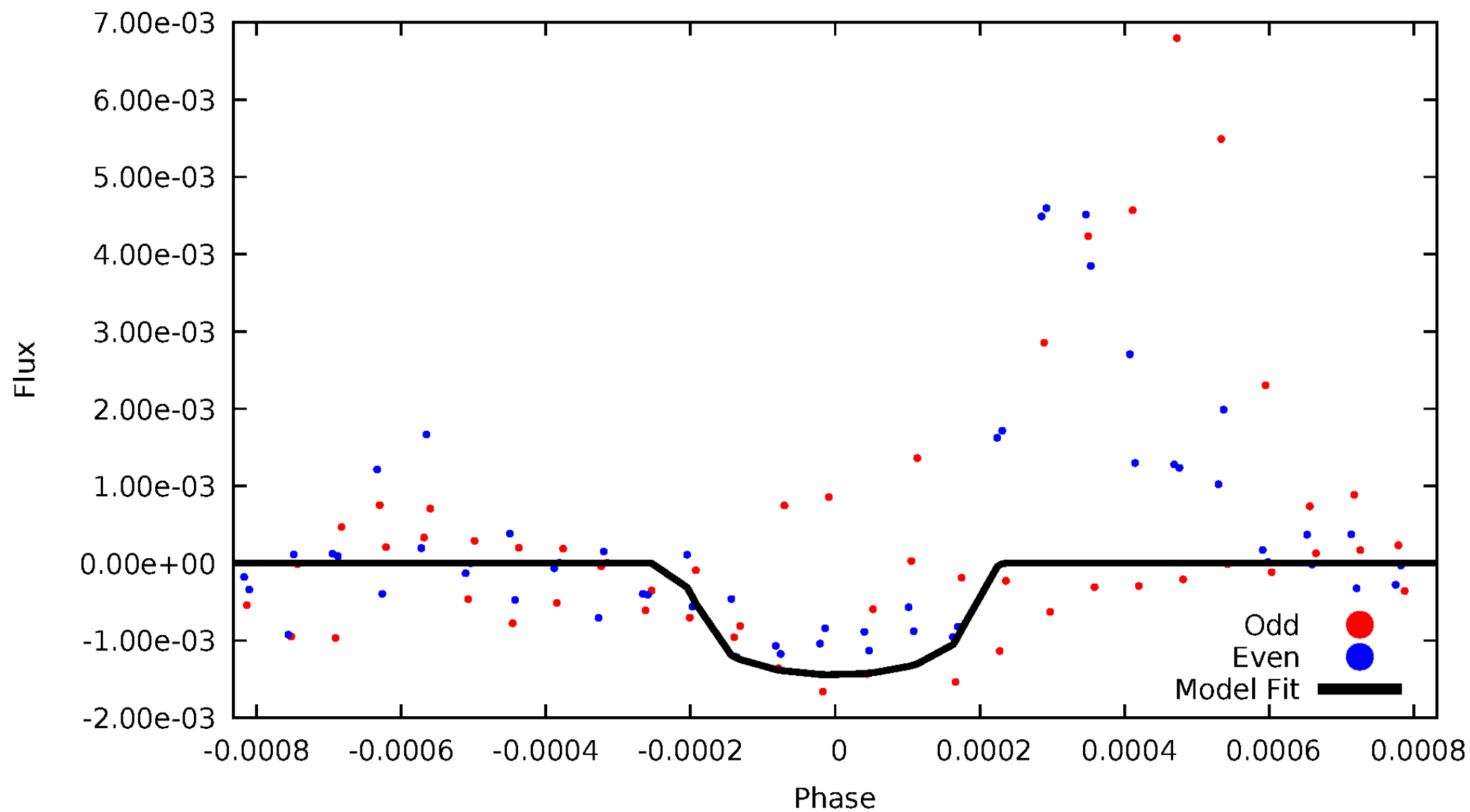


TCE 006507888-01



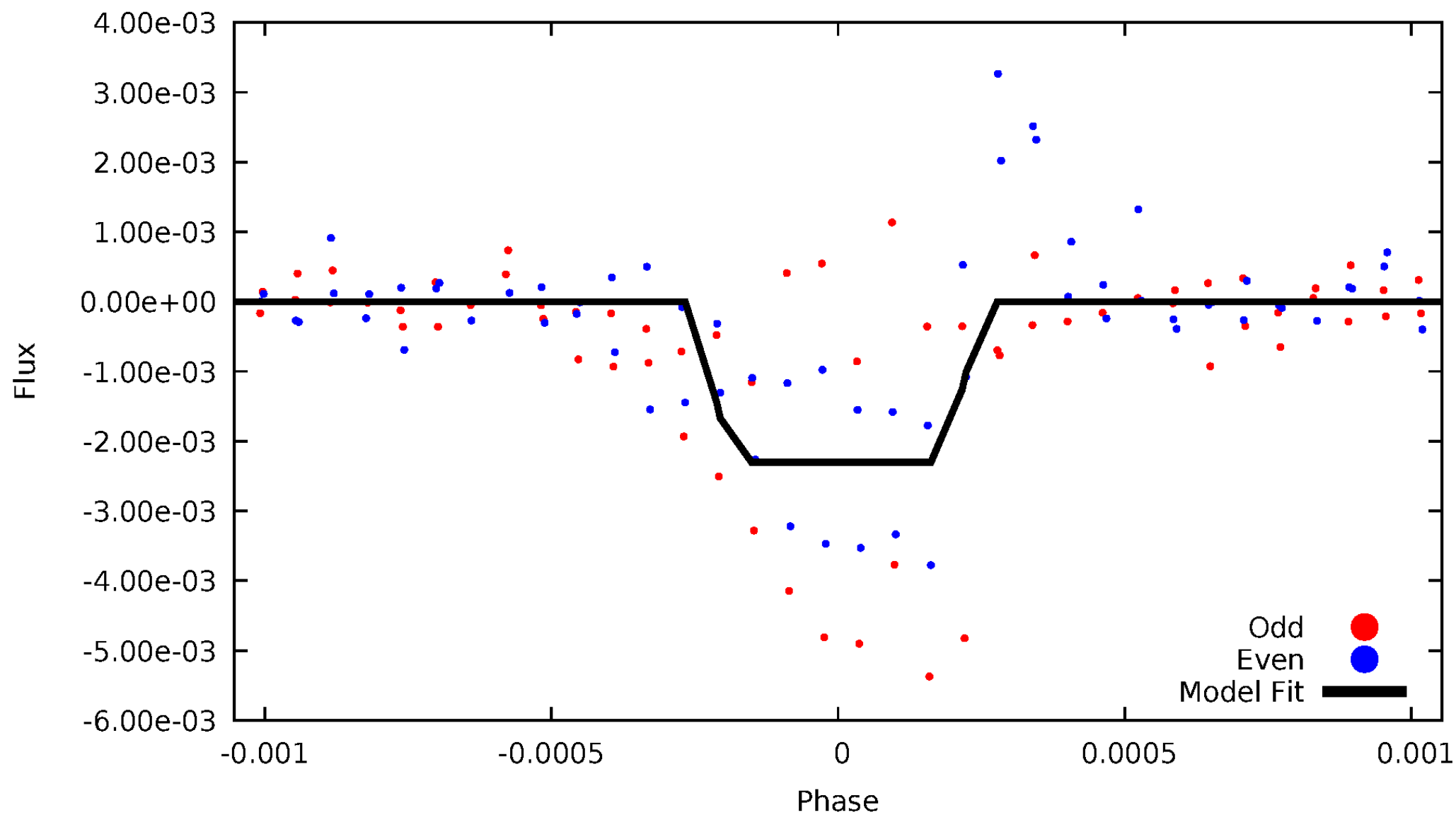
DV Odd/Even

TCE 006507888-01



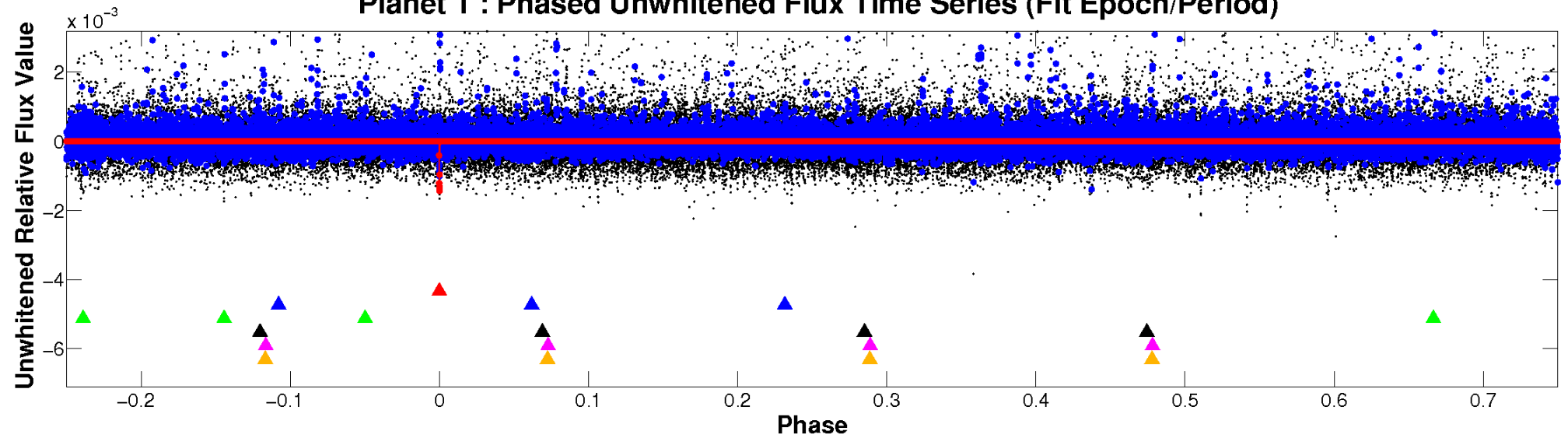
ALT Odd/Even

TCE 006507888-01

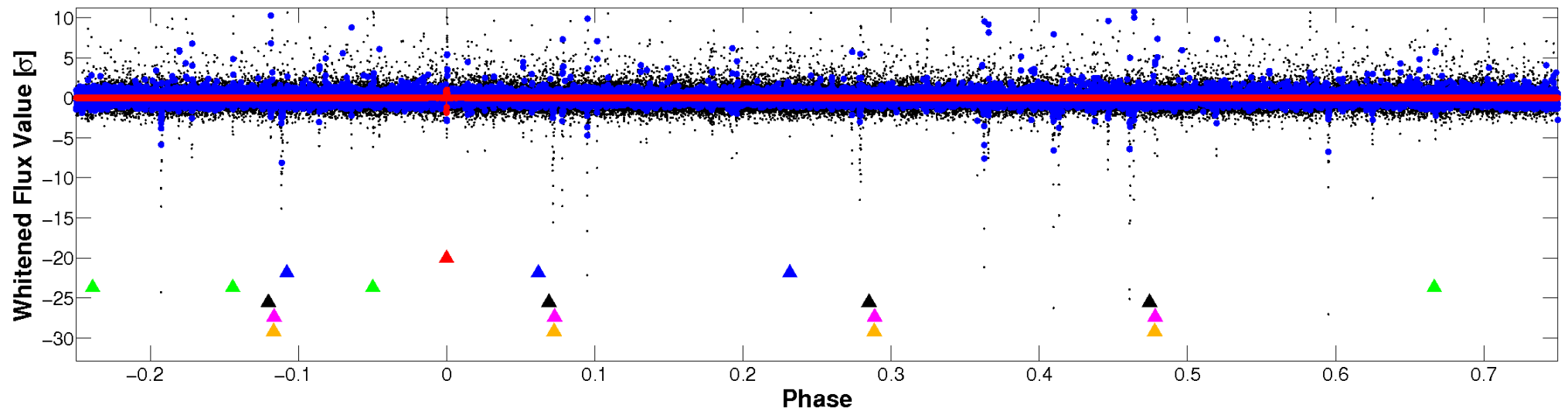


Non-Whitened Vs. Whitened Light Curve

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

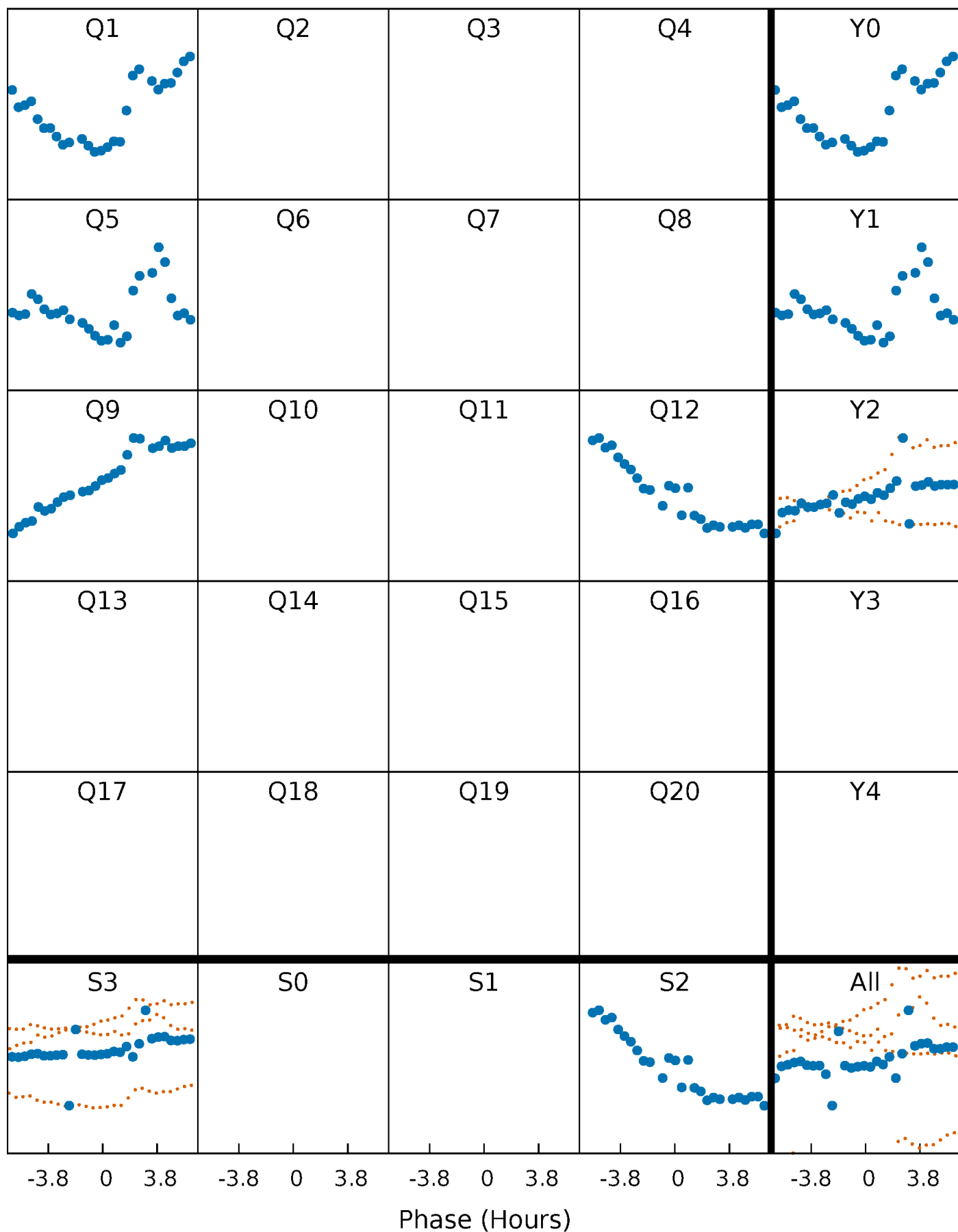


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



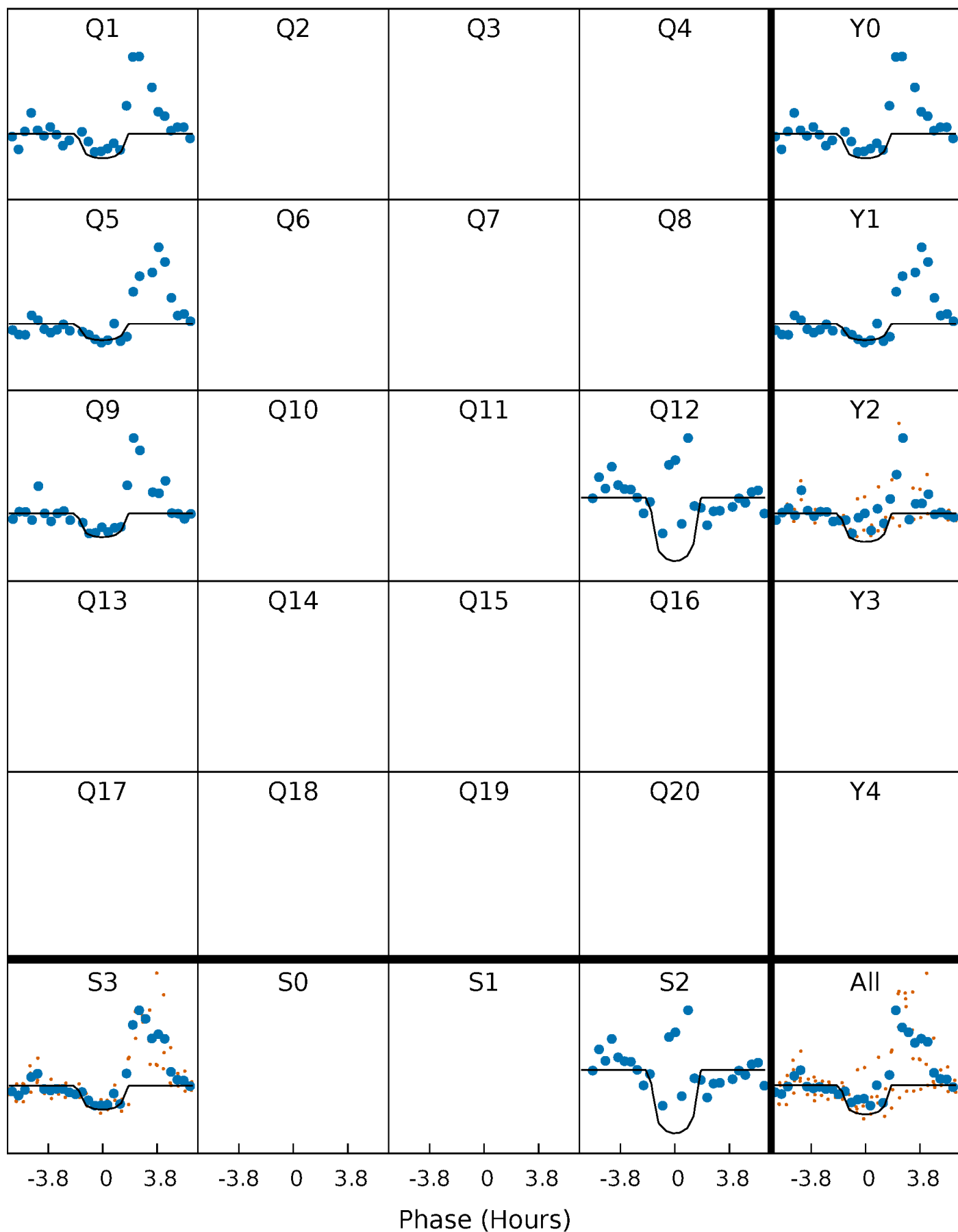
PDC Quarter-Phased Transit Curves

TCE 006507888-01 P=333.718841 Days $T_0=148.888920$ (BKJD)



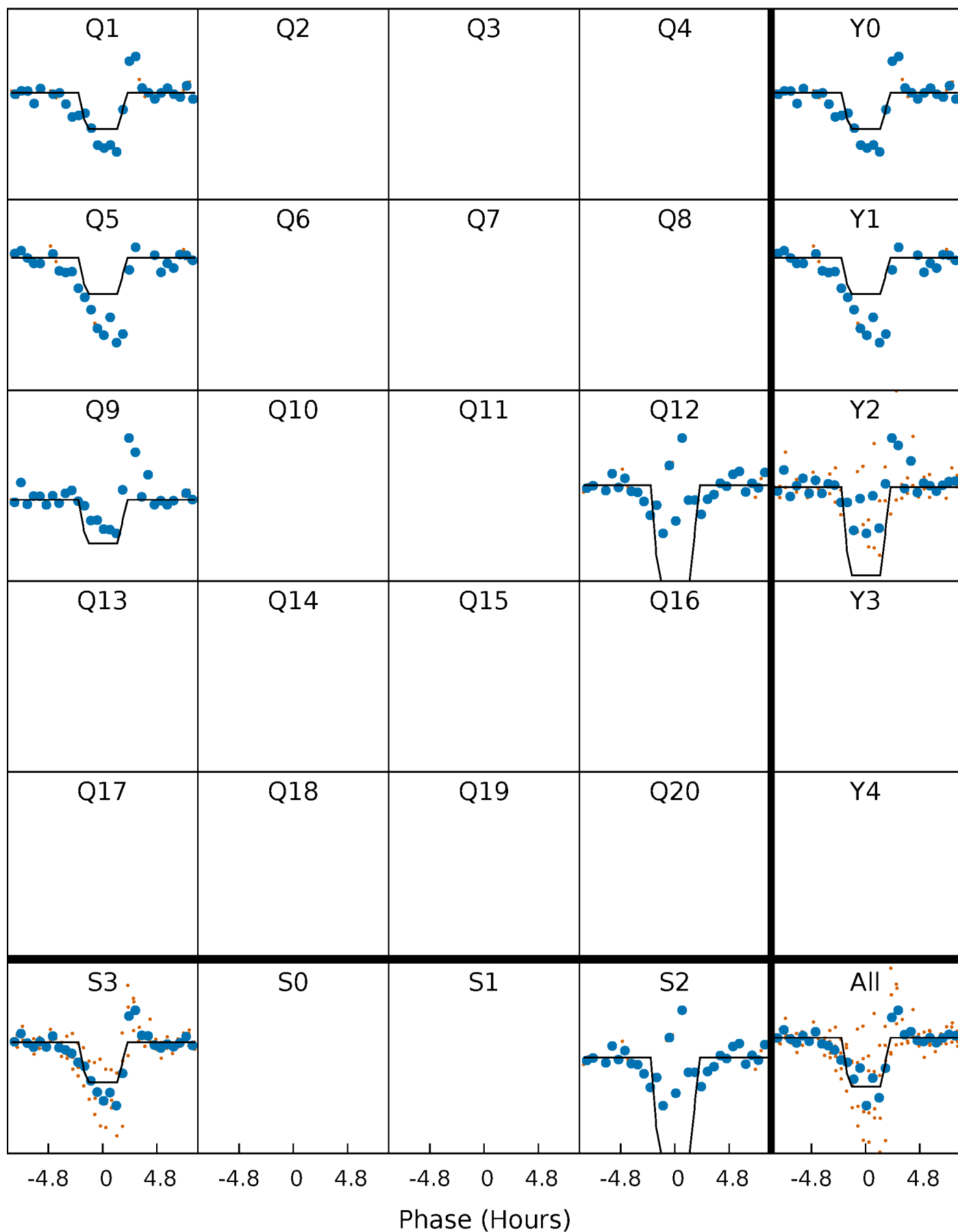
DV Quarter-Phased Transit Curves

TCE 006507888-01 P=333.718841 Days $T_0=148.888920$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

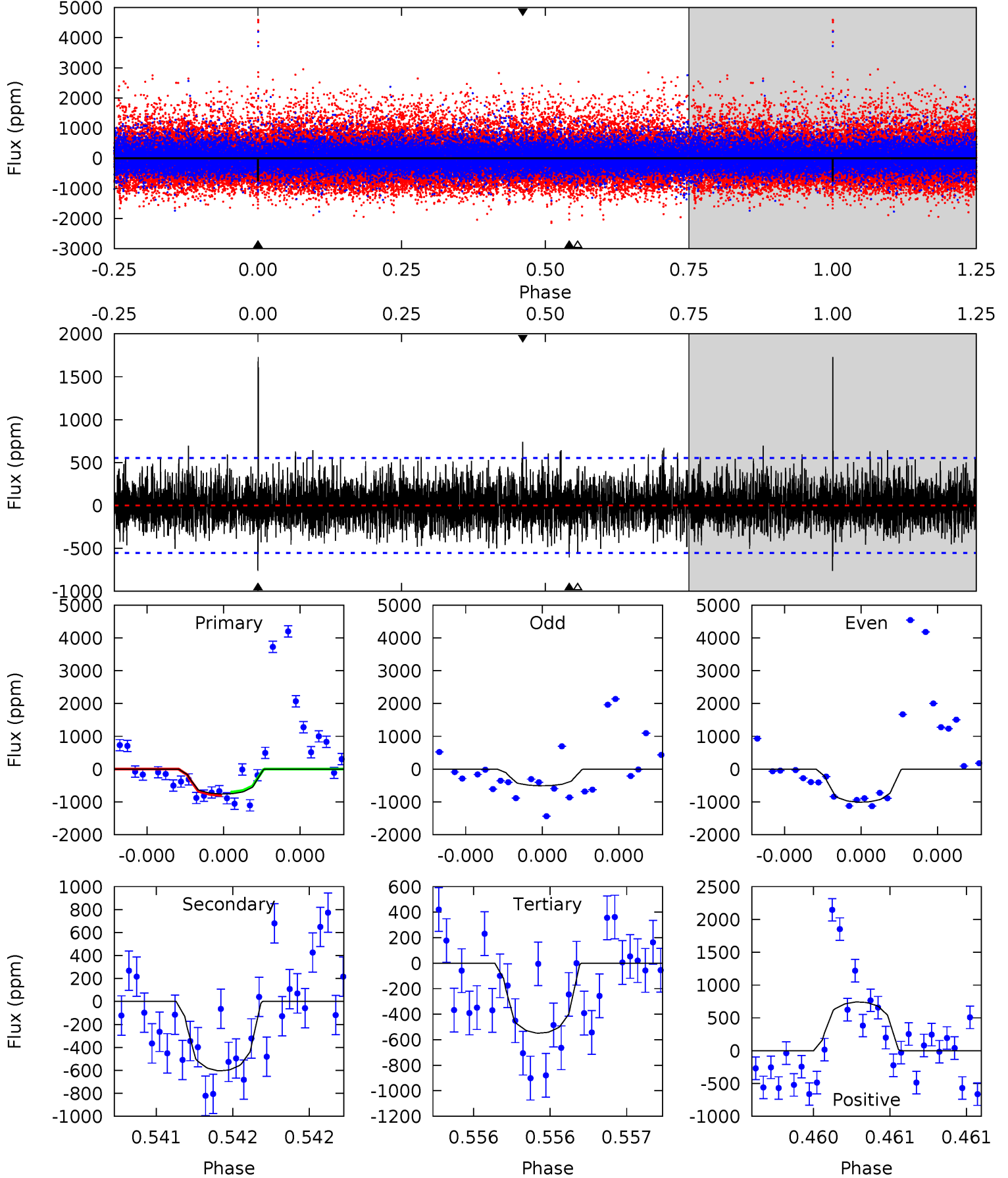
TCE 006507888-01 P=333.720902 Days $T_0=148.889223$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-01, P = 333.718841 Days, E = 148.888920 Days

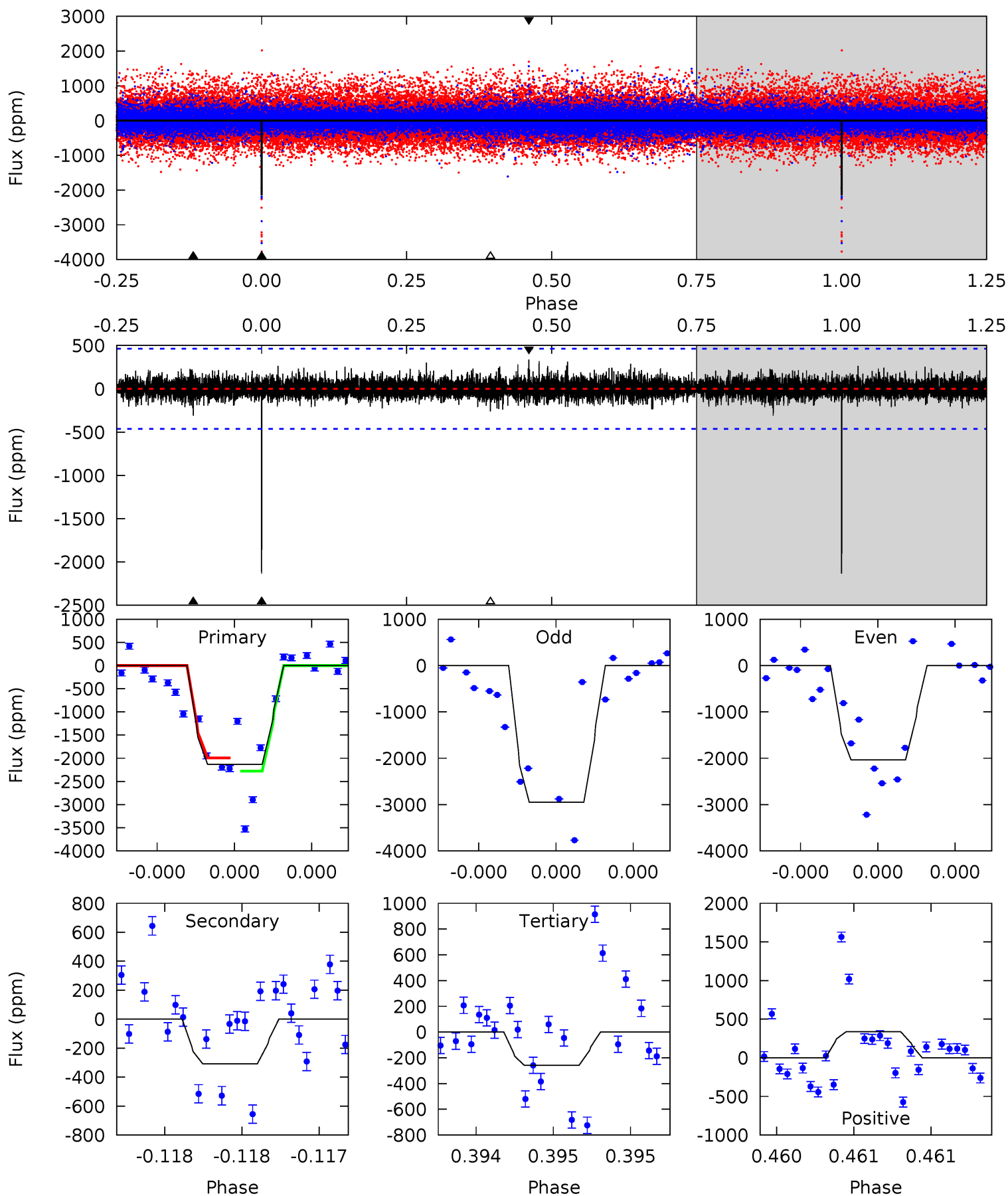
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.69	6.11	5.55	7.50	5.60	3.52	1.74	2.14	0.18	0.56	-1.40	2.38	0.75	0.69	0.49



Alt Model-Shift Uniqueness Test

006507888-01, P = 333.720902 Days, E = 148.889223 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
25.8	3.72	3.13	4.09	5.60	3.52	0.77	22.6	21.7	0.59	-0.37	5.85	1.04	0.14	1.63



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-604 ± 99	$2.73^{+1.81}_{-1.66}$	206^{+3}_{-3}	3235^{+1229}_{-411}	$26279^{+147575}_{-16621}$
Alt.	-308 ± 83	$3.15^{+1.78}_{-1.67}$	206^{+3}_{-3}	2843^{+711}_{-353}	10352^{+38718}_{-6720}

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 $A_{obs} \gg 1.0$

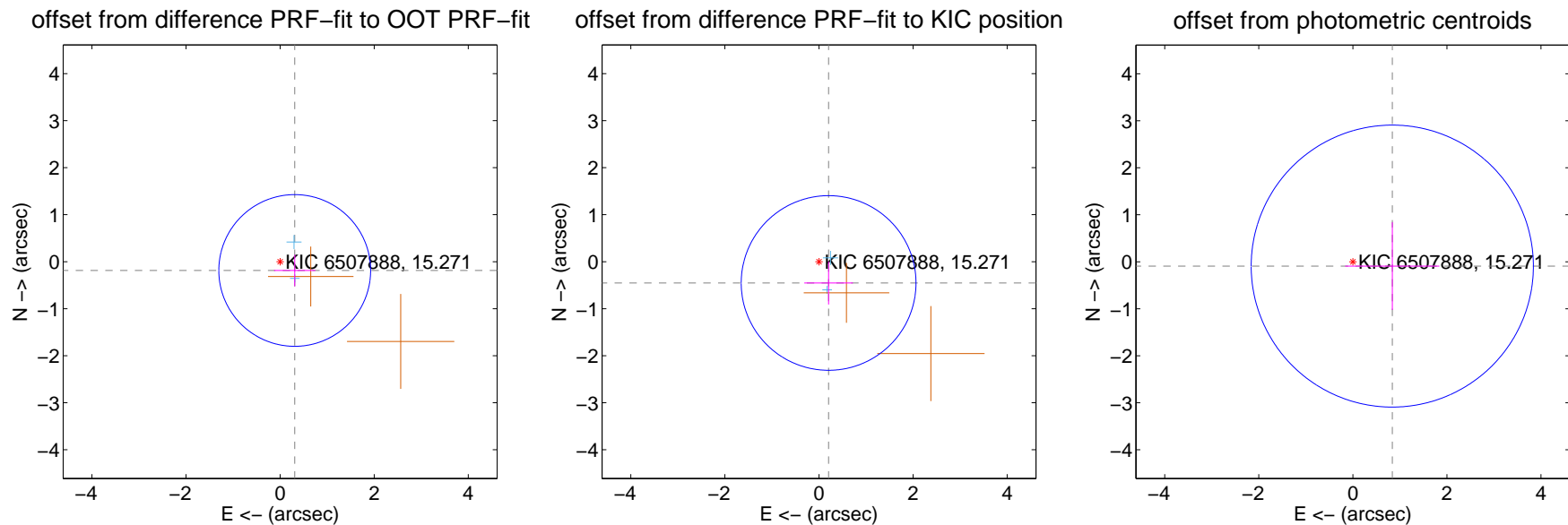
DV Centroid Data

Supplemental centroid analysis for 006507888-01. Kepler magnitude: 15.27. Transit SNR 8.10

There are 2 quarters with good PRF difference image offsets

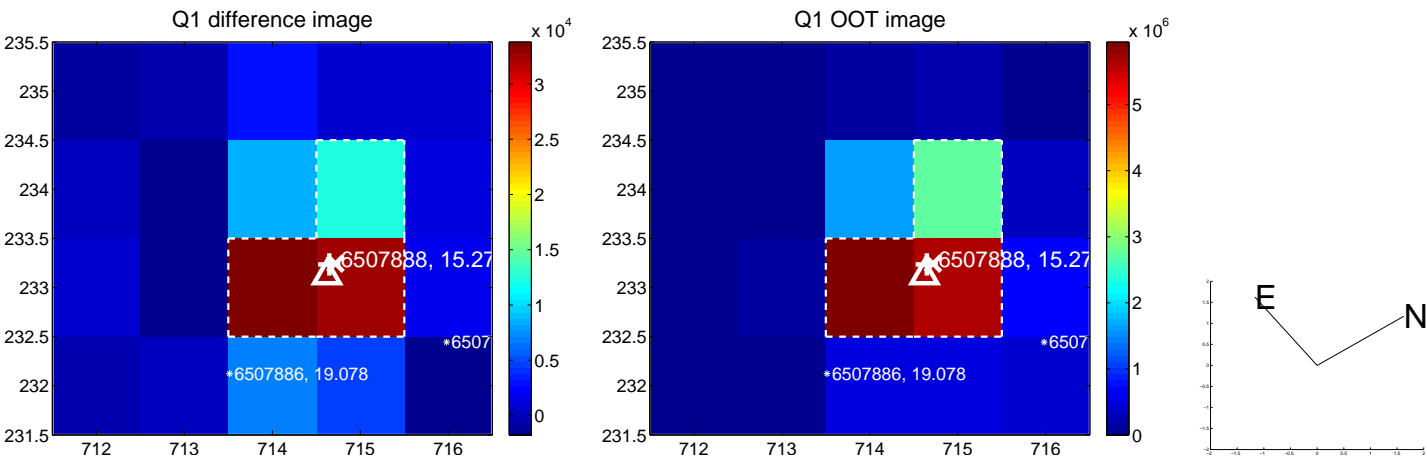
The direct PRF centroid is offset from the target star catalog position by about 0.32 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.362 ± 0.538	0.67	-0.311 ± 0.439	-0.187 ± 0.335
PRF-fit source offset from KIC position	0.497 ± 0.619	0.80	-0.204 ± 0.518	-0.453 ± 0.458
photometric centroid source offset	0.84 ± 1.00	0.84	-0.84 ± 1.00	-0.09 ± 0.93

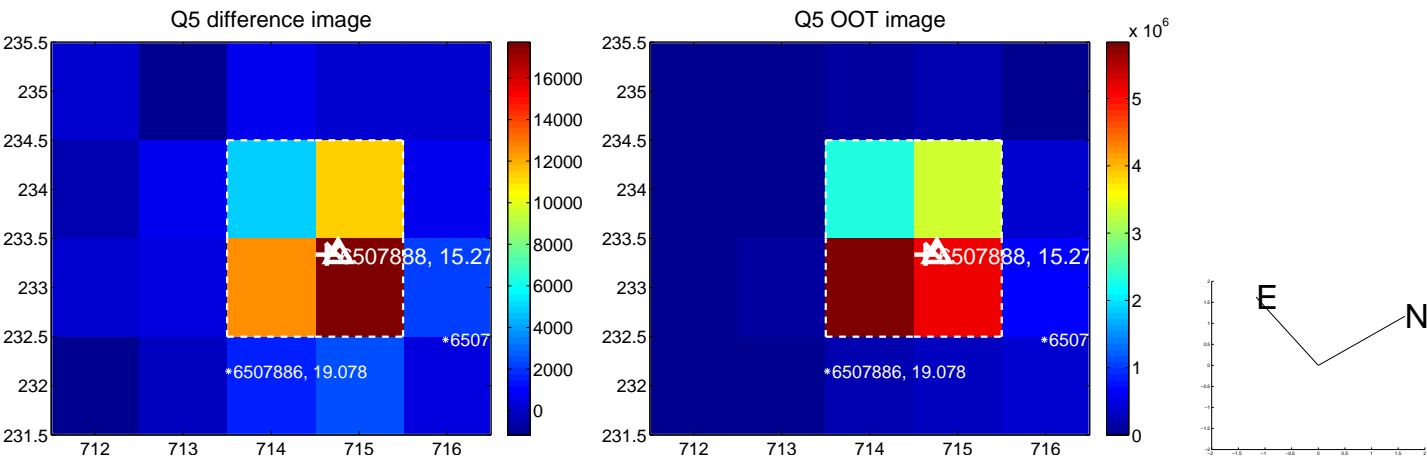


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

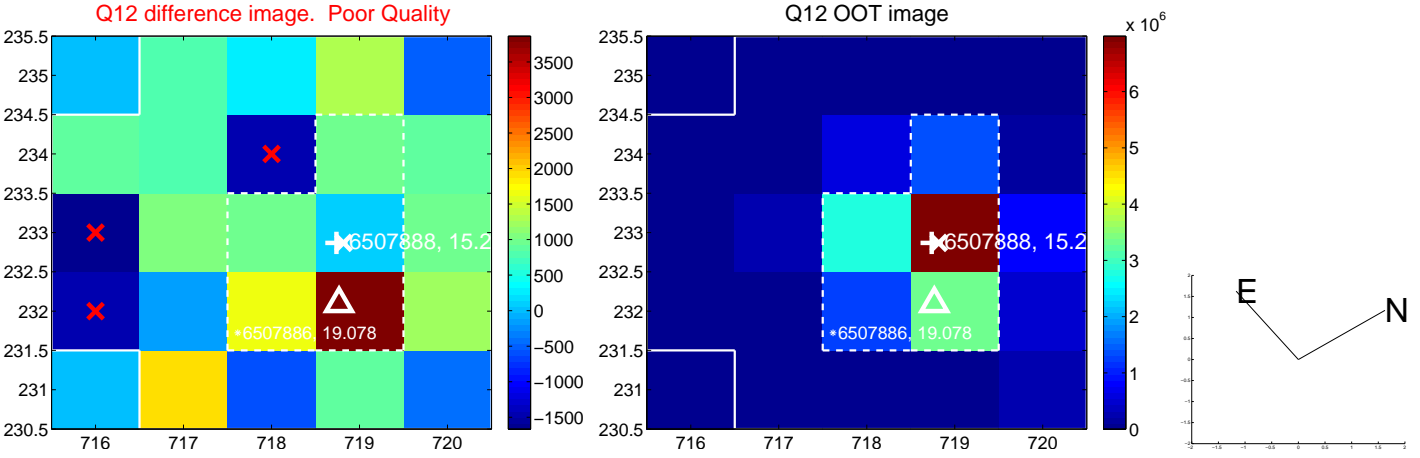
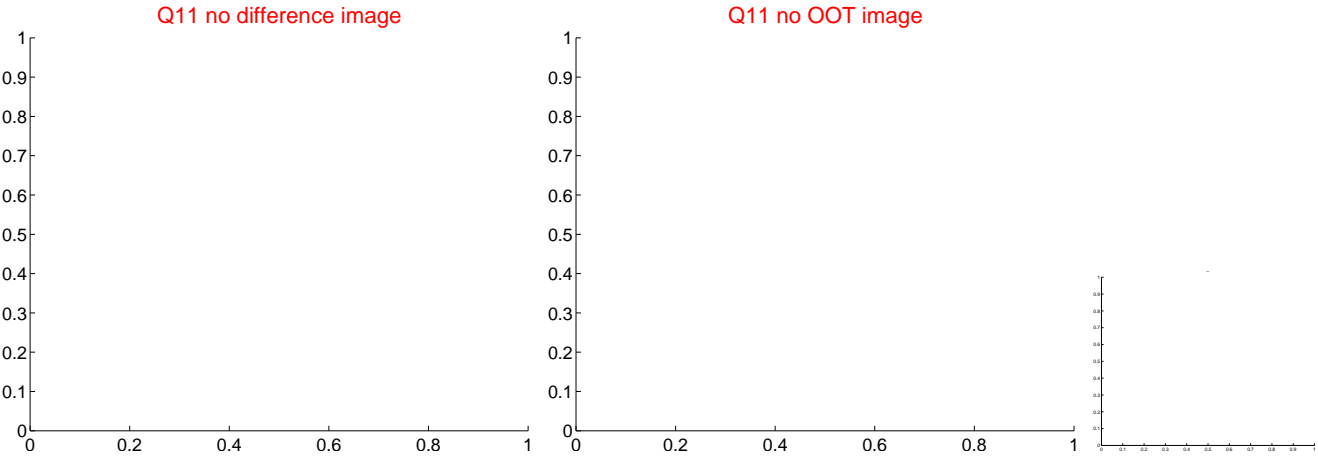
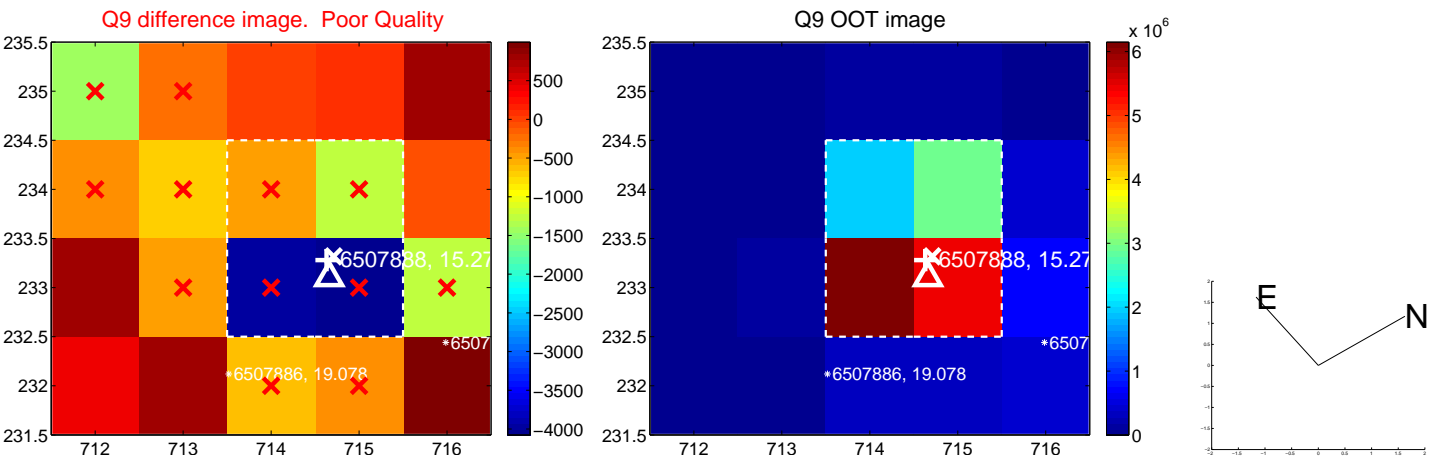
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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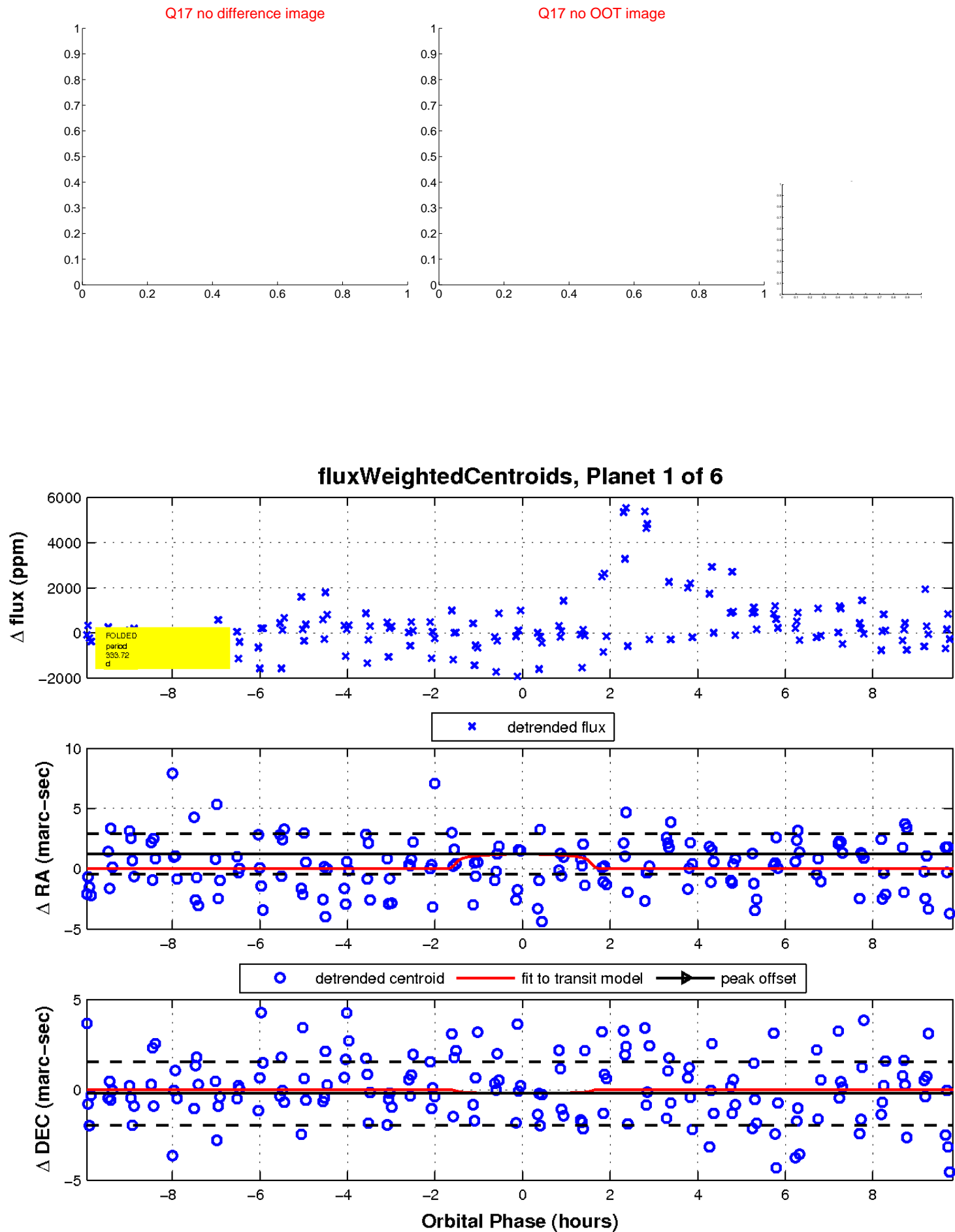
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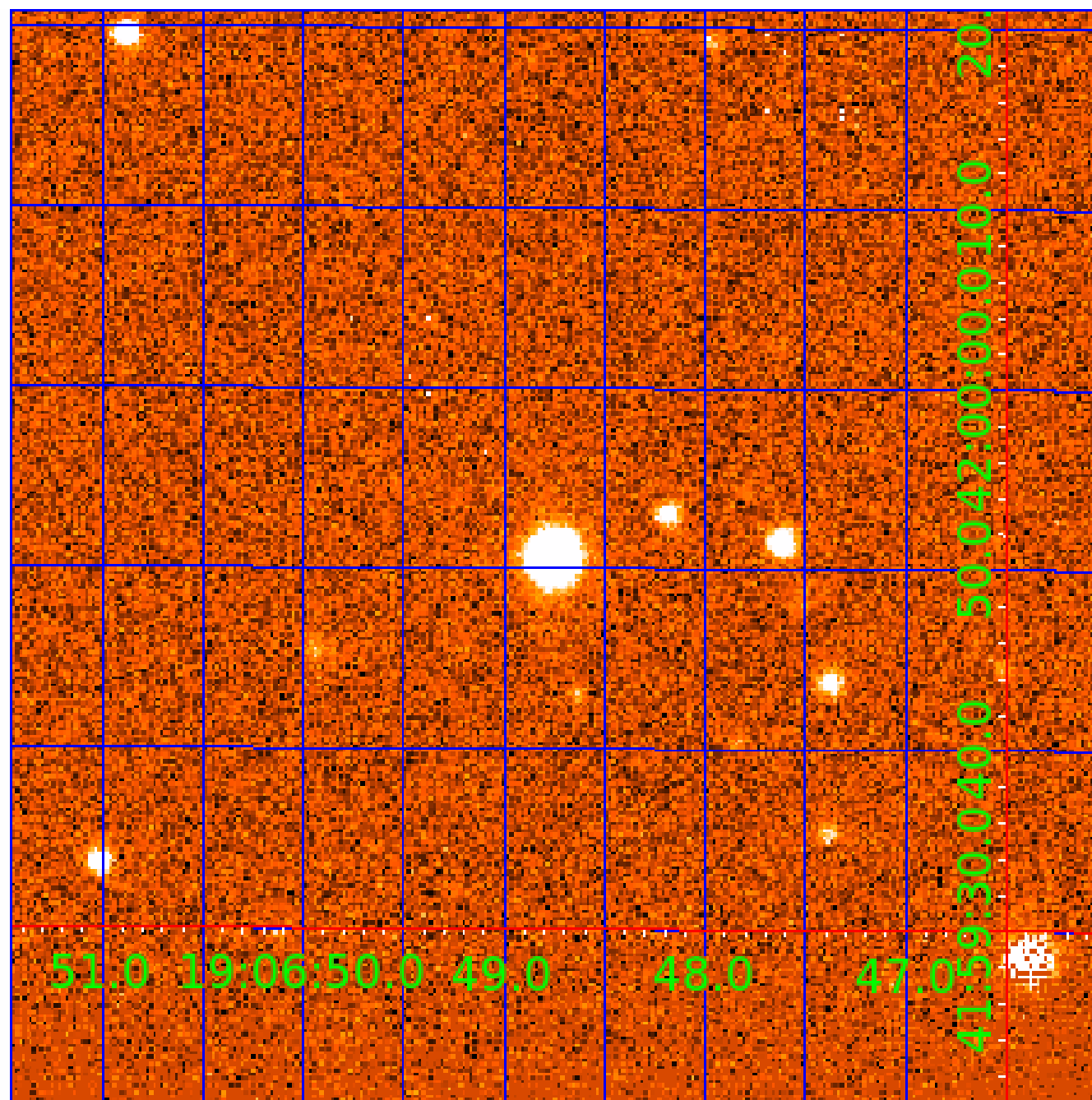


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UKIRT Image

Declination



KIC 006507888

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006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
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N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

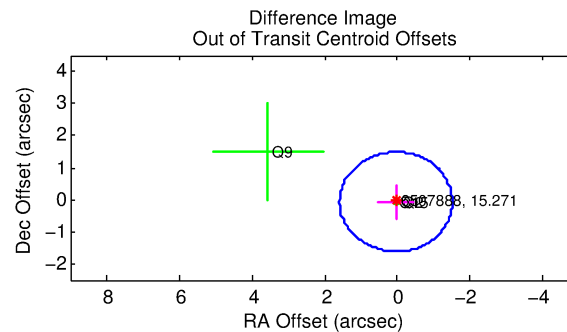
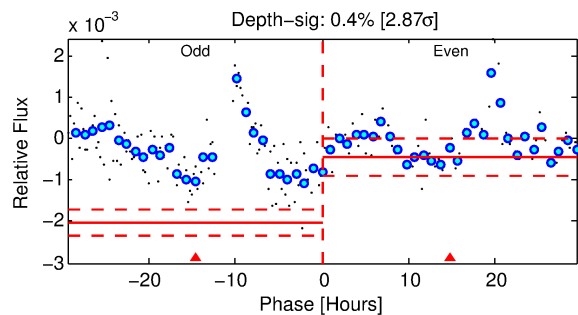
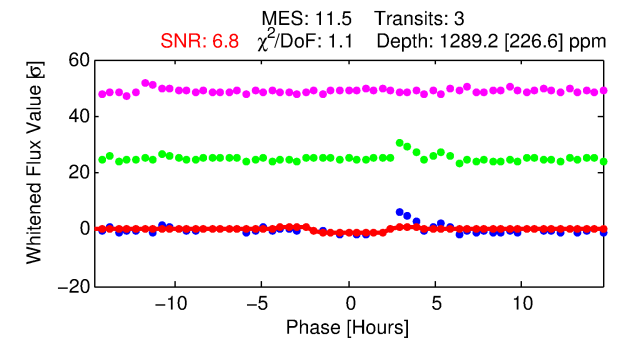
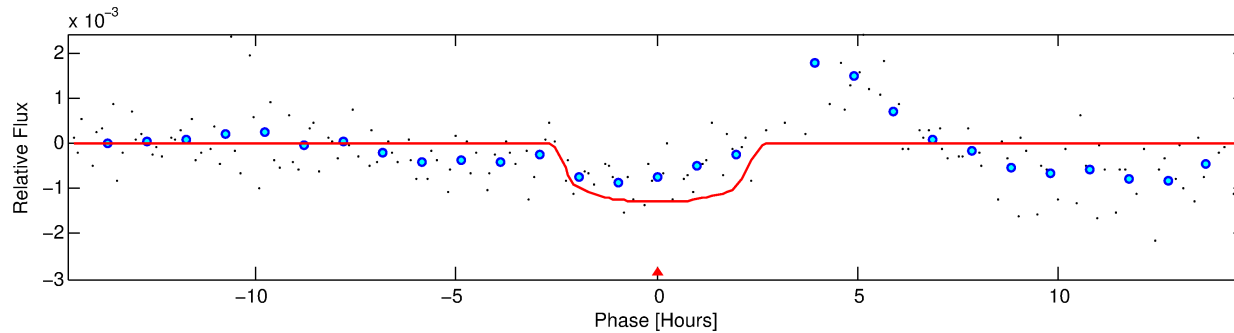
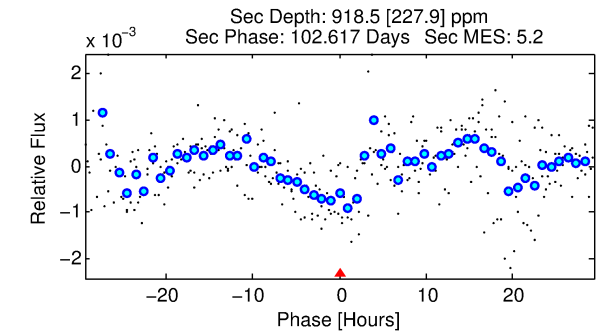
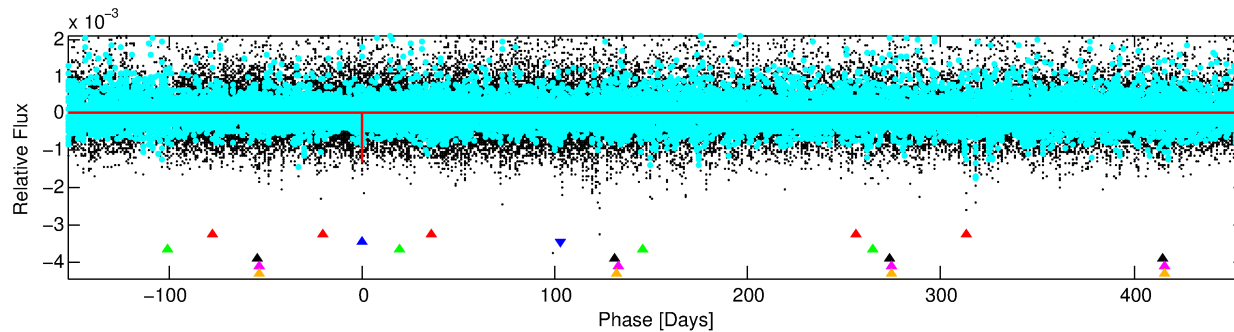
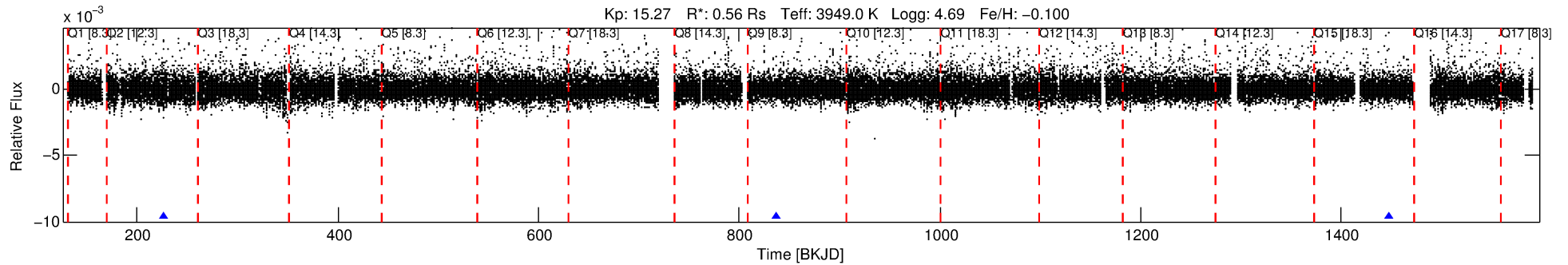
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-02

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 2 of 6 Period: 610.795 d



DV Fit Results:

Period = 610.79459 [0.00717] d
Epoch = 226.1962 [0.0091] BKJD
Rp/R* = 0.0331 [0.0514]
a/R* = 897.48 [5536.98]
b = 0.43 [12.00]
Seff = 0.05 [0.00]
Teq = 121 [2] K
Rp = 2.02 [3.14] Re
a = 1.1621 [0.0405] AU
Ag = 167163.24 [520670.92] [0.32 σ]
Teffp = 3777 [2941] K [1.24 σ]

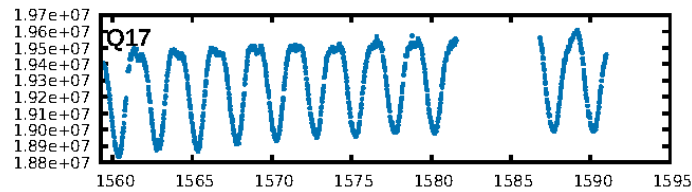
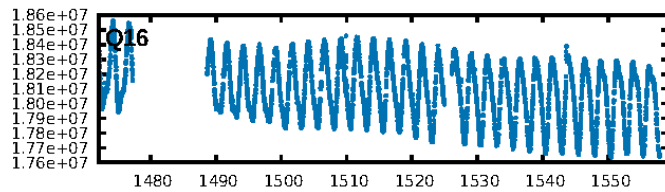
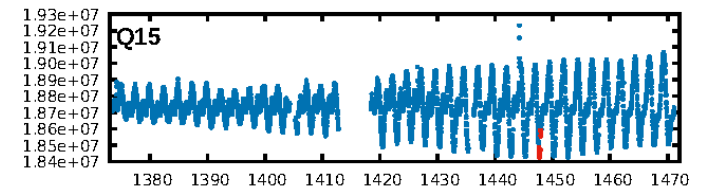
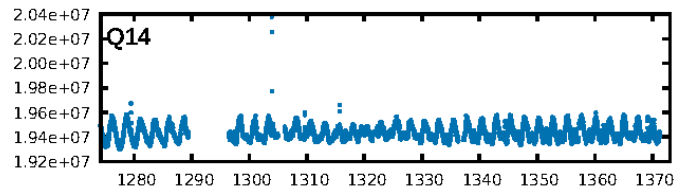
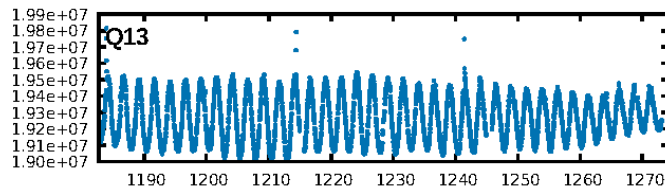
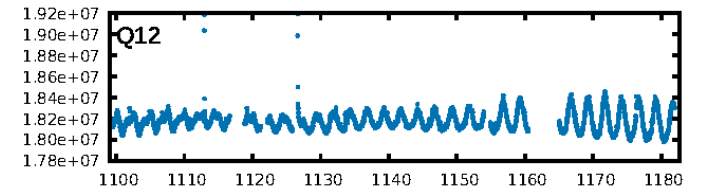
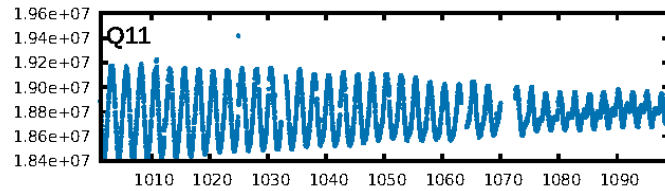
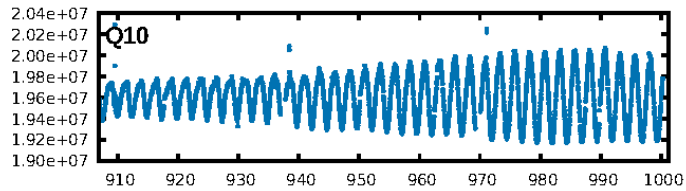
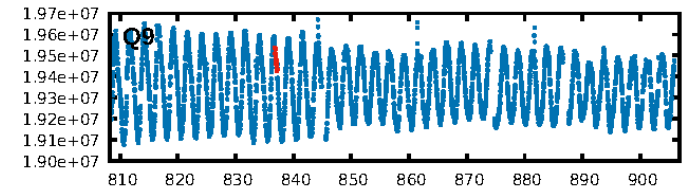
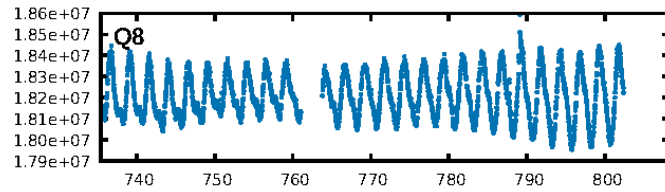
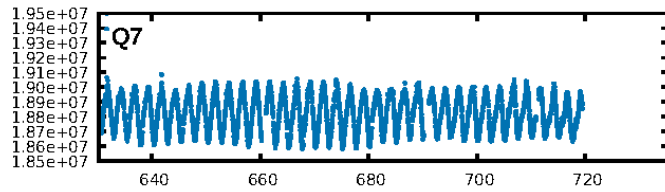
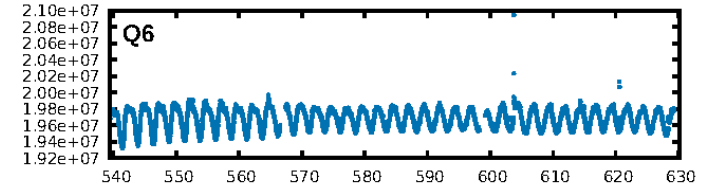
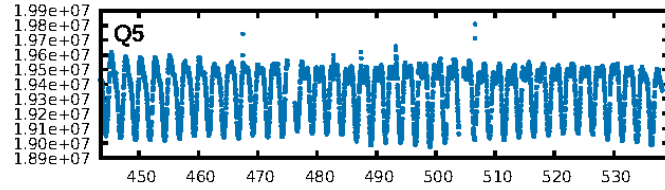
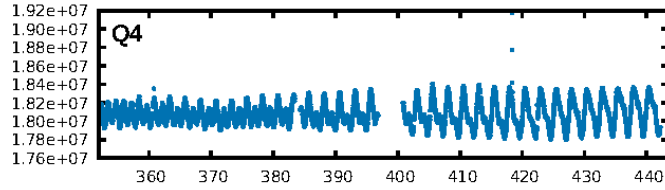
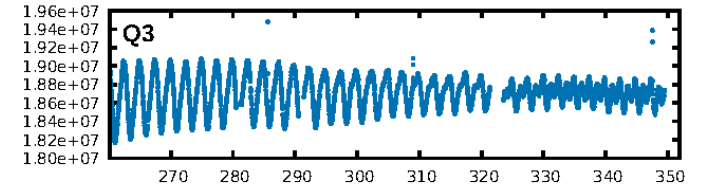
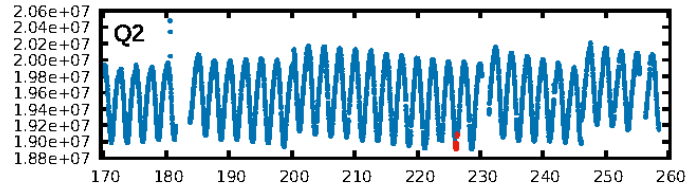
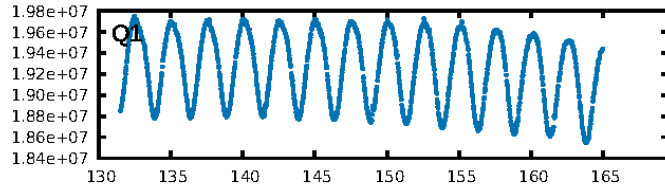
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [259.18 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.4%
ModelChiSquareGof-sig: 83.8%
Bootstrap-pfa: 1.00e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -36.1
Centroid-sig: 37.3%
Centroid-so: 0.562 arcsec [0.57 σ]
OotOffset-rm: 0.075 arcsec [0.14 σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-rm: 0.334 arcsec [0.64 σ]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

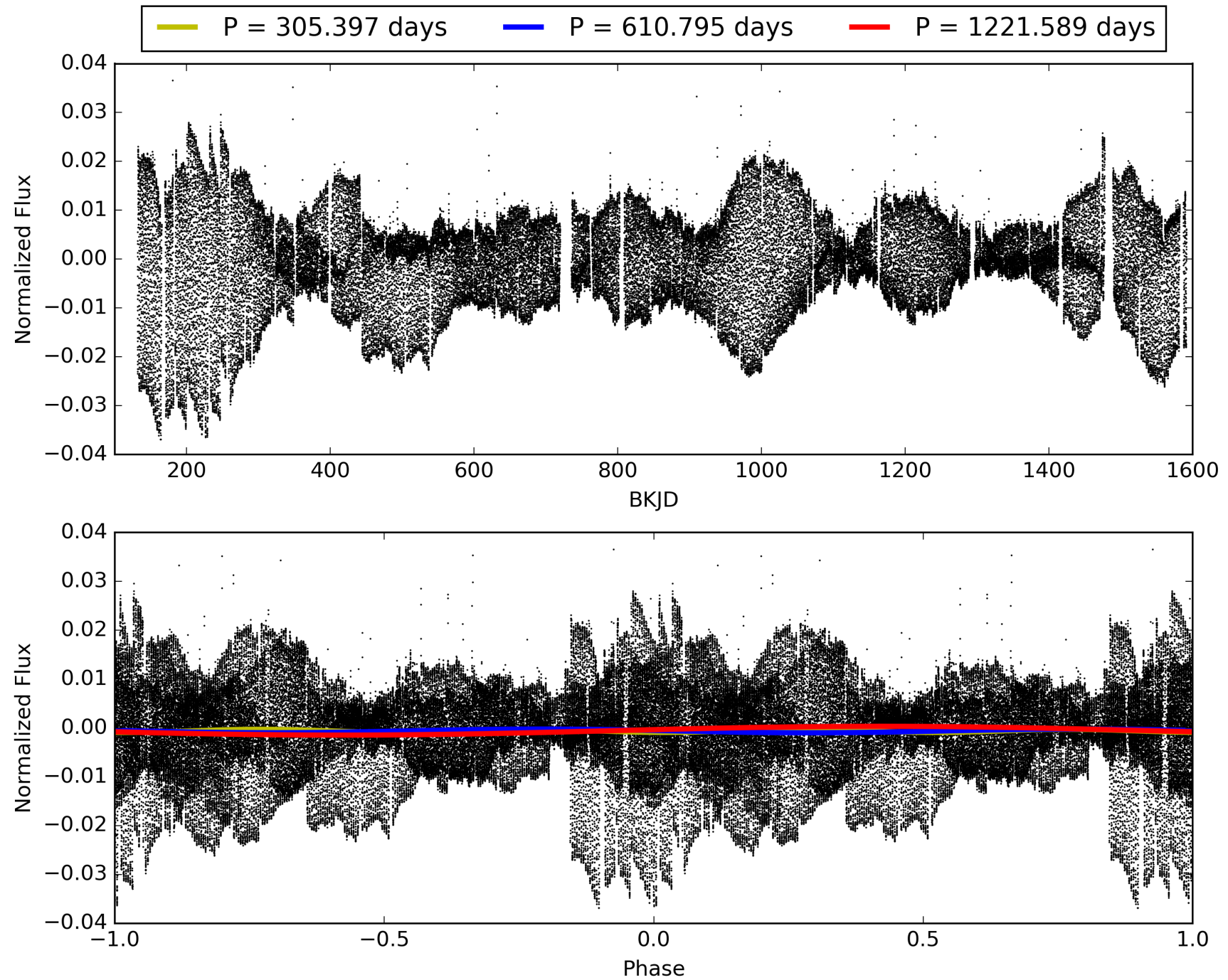
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:02:05 Z

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

TCE 006507888-02, PDC Light Curves

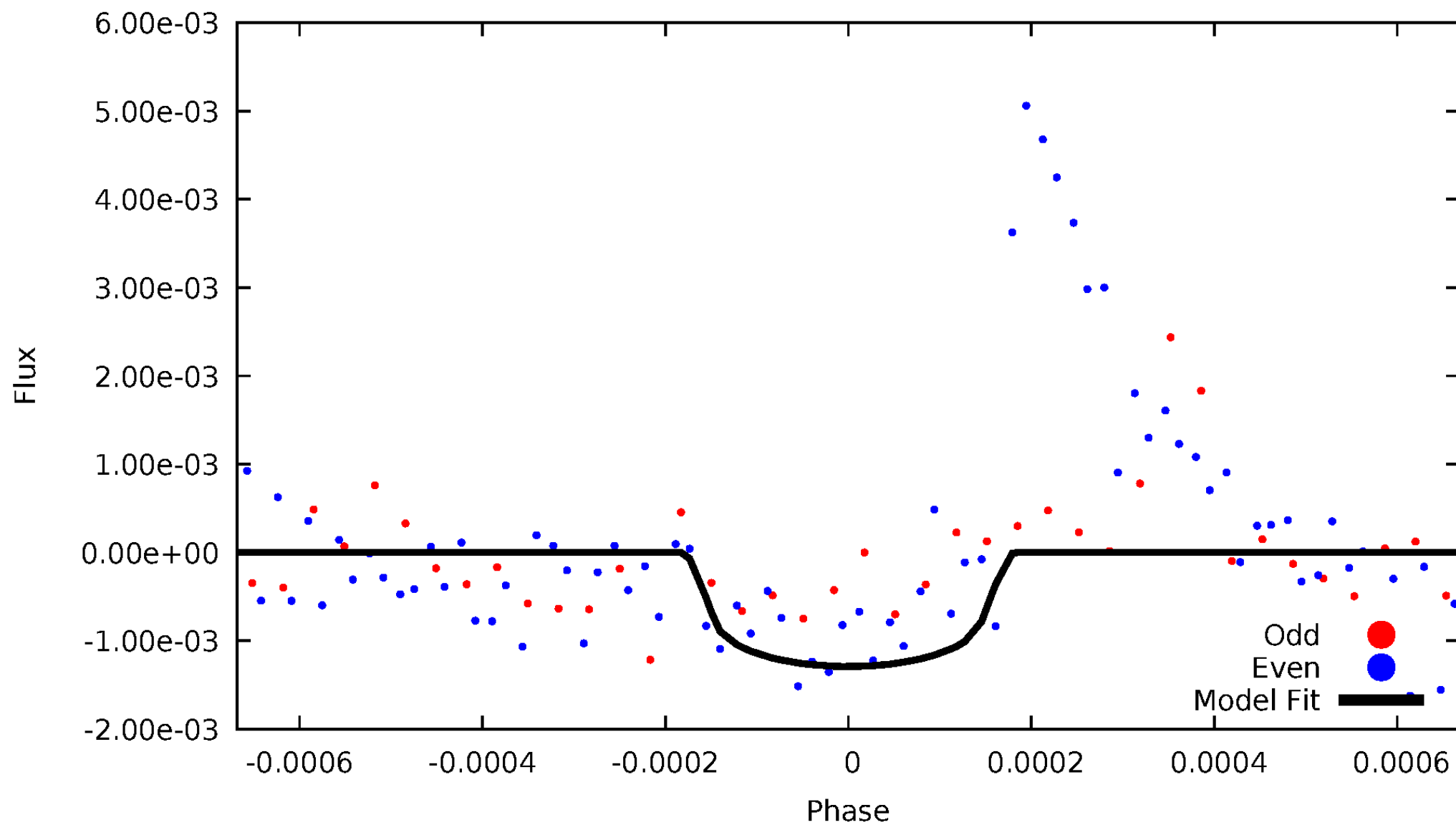


TCE 006507888-02



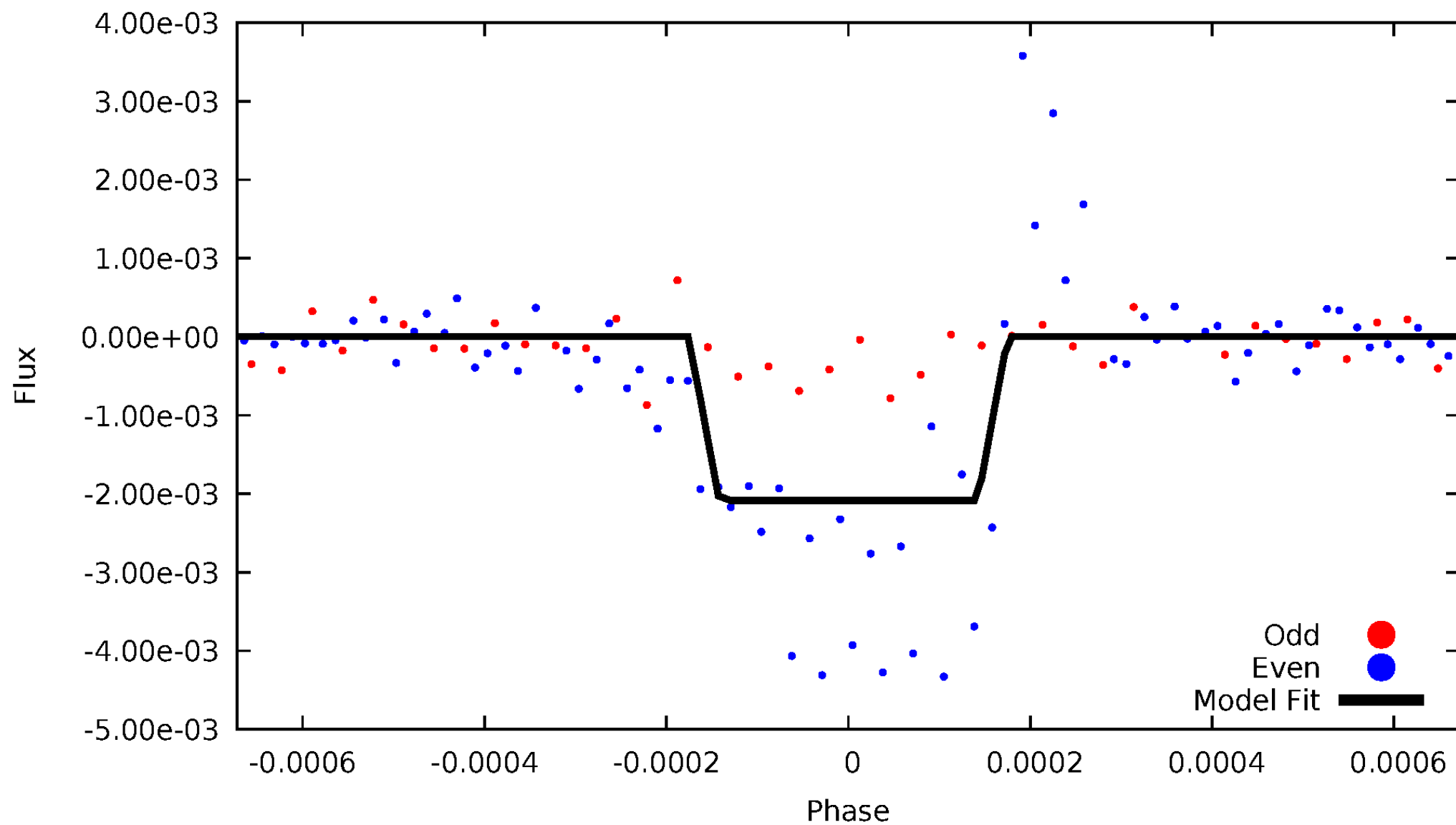
DV Odd/Even

TCE 006507888-02



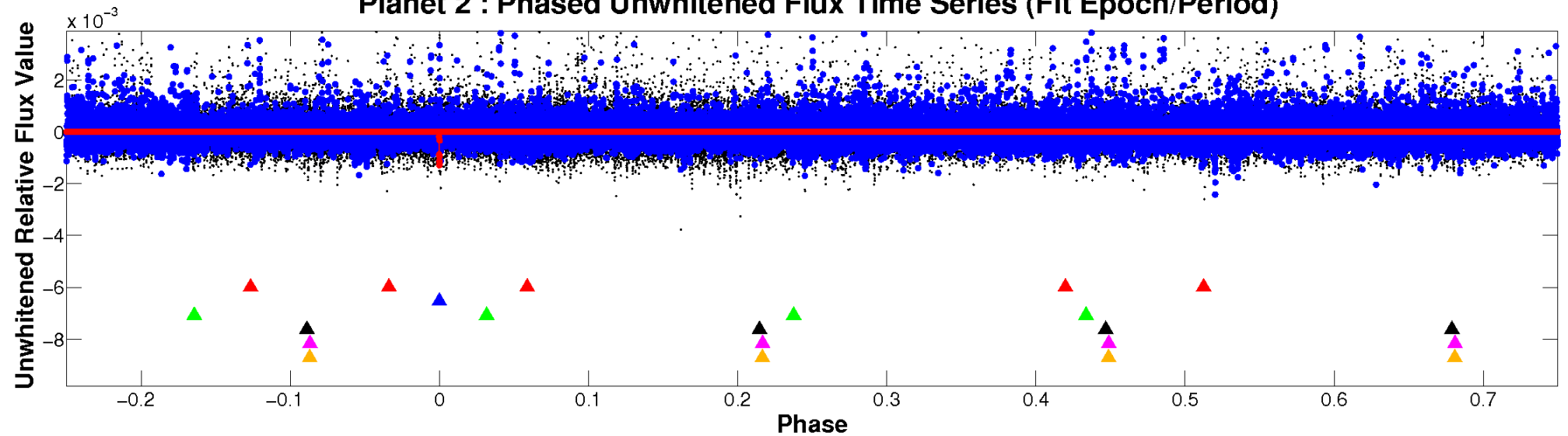
ALT Odd/Even

TCE 006507888-02

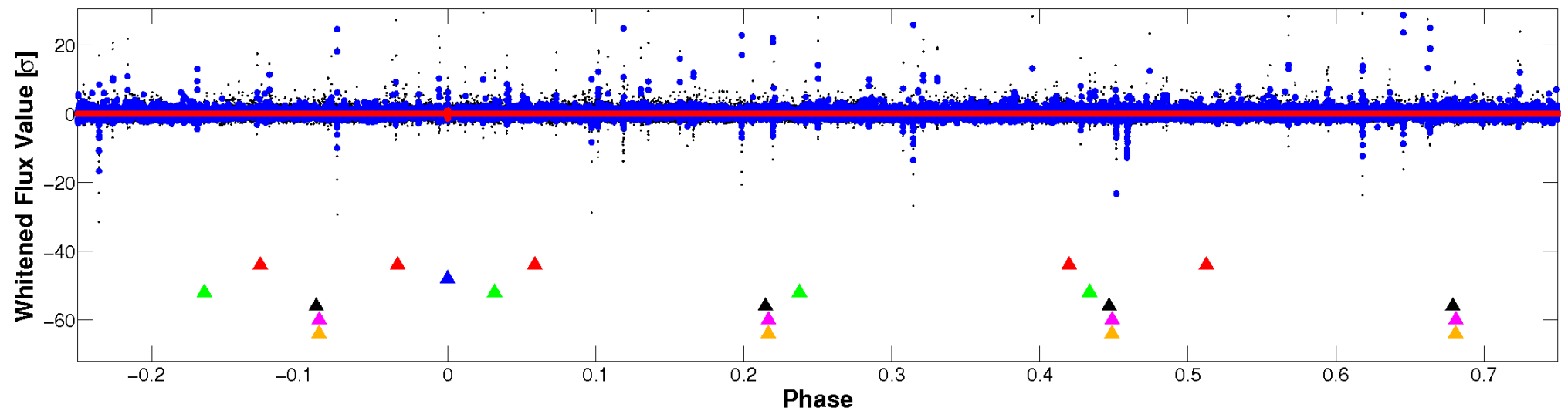


Non-Whitened Vs. Whitened Light Curve

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

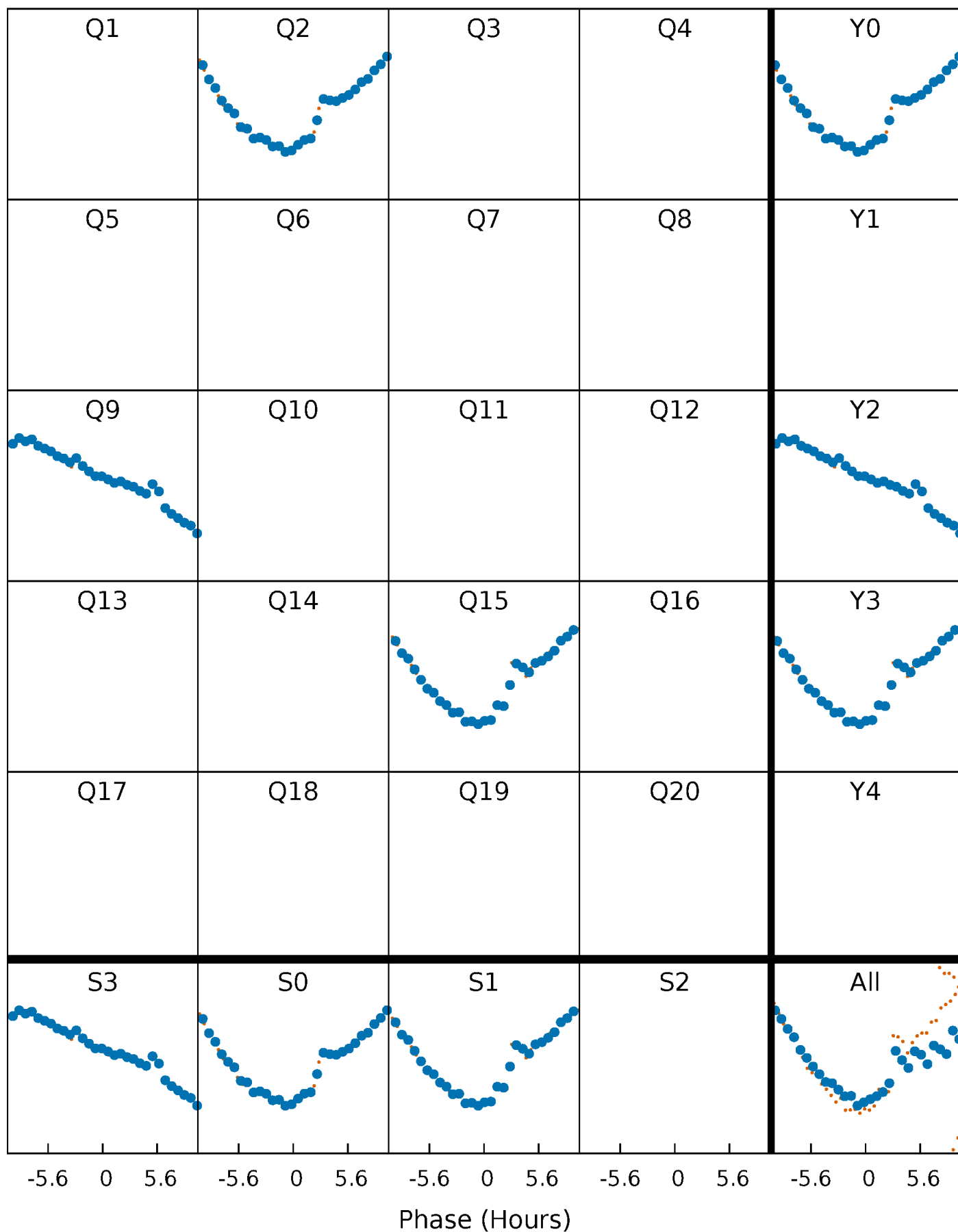


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



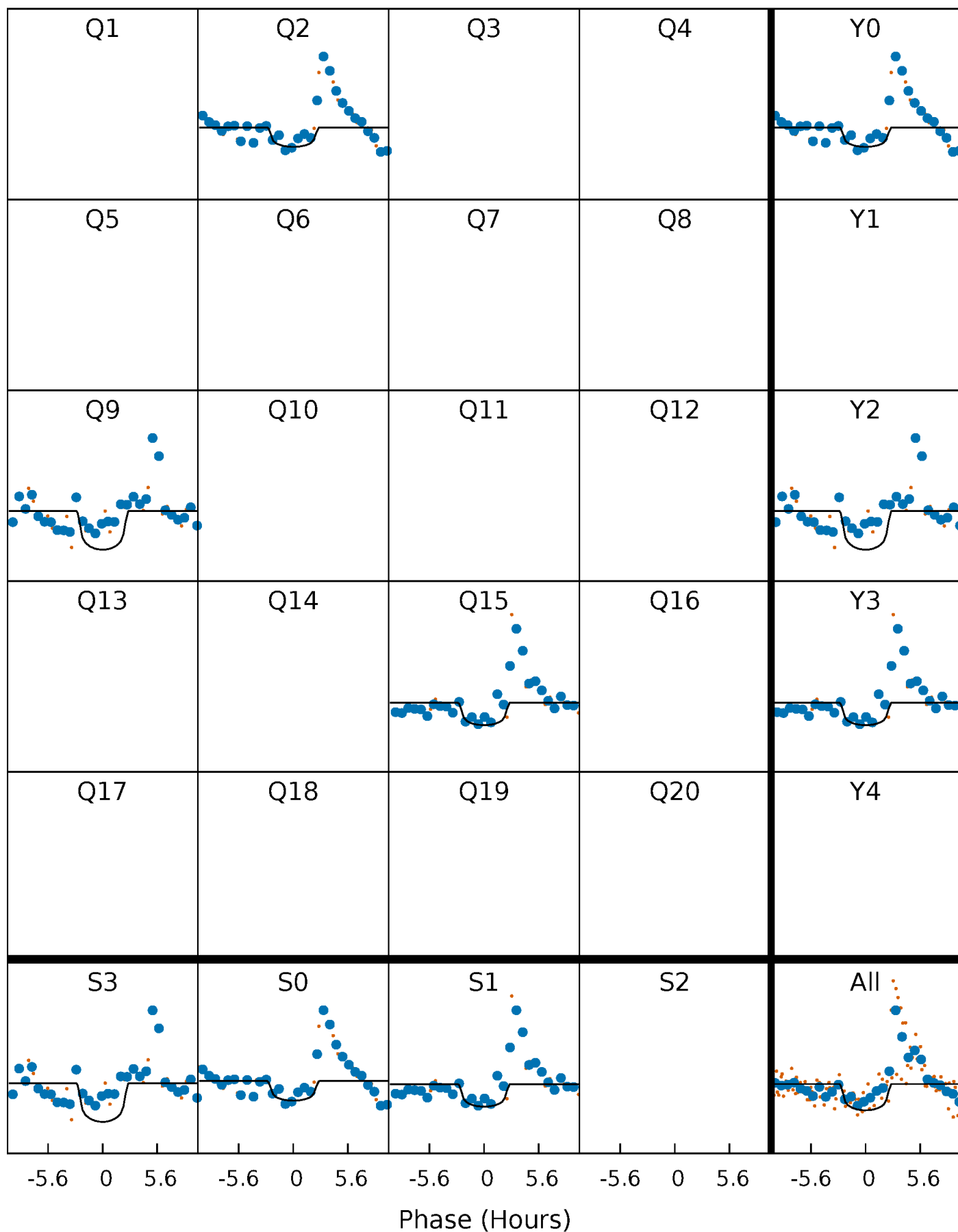
PDC Quarter-Phased Transit Curves

TCE 006507888-02 P=610.794592 Days $T_0=226.196180$ (BKJD)



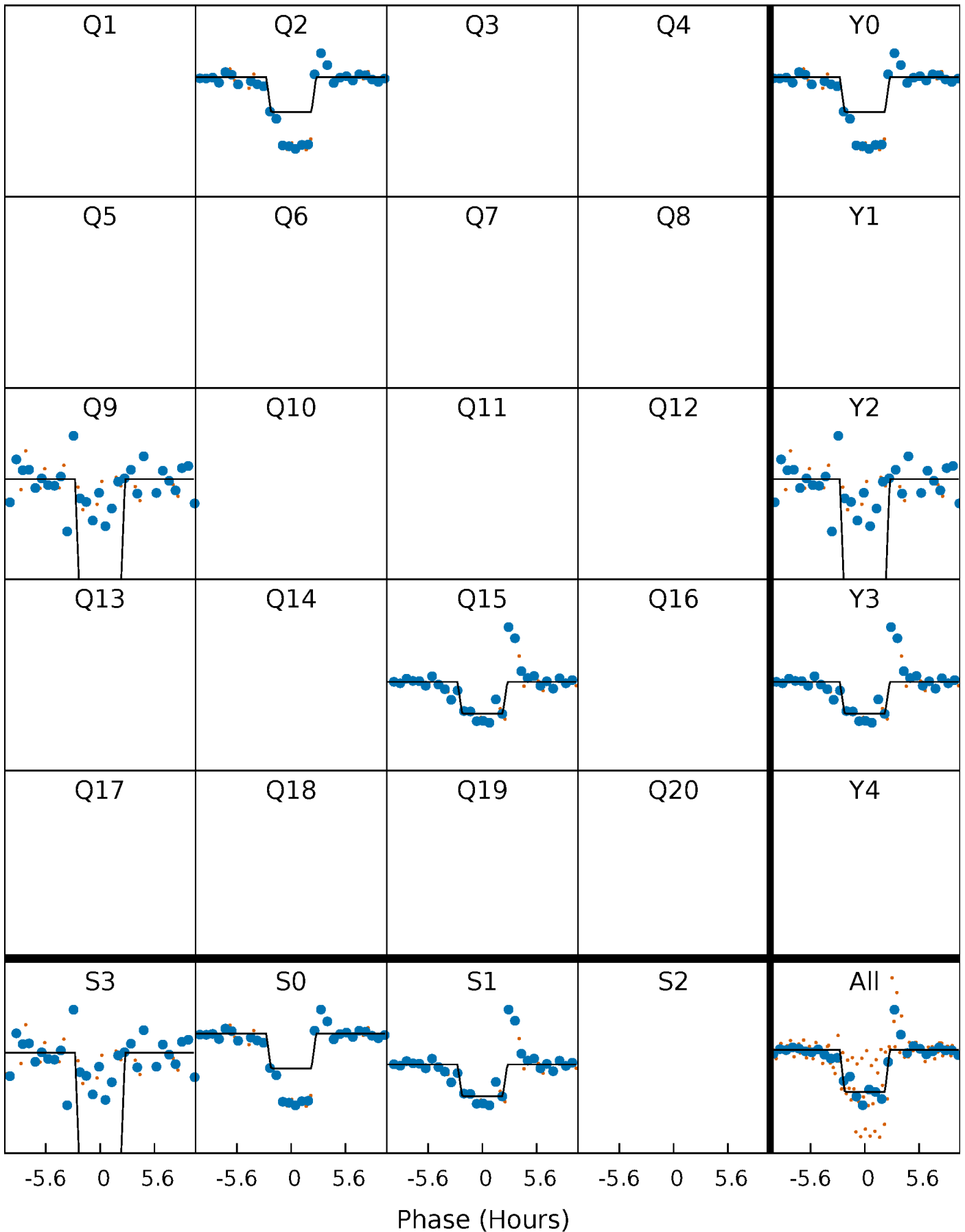
DV Quarter-Phased Transit Curves

TCE 006507888-02 $P=610.794592$ Days $T_0=226.196180$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

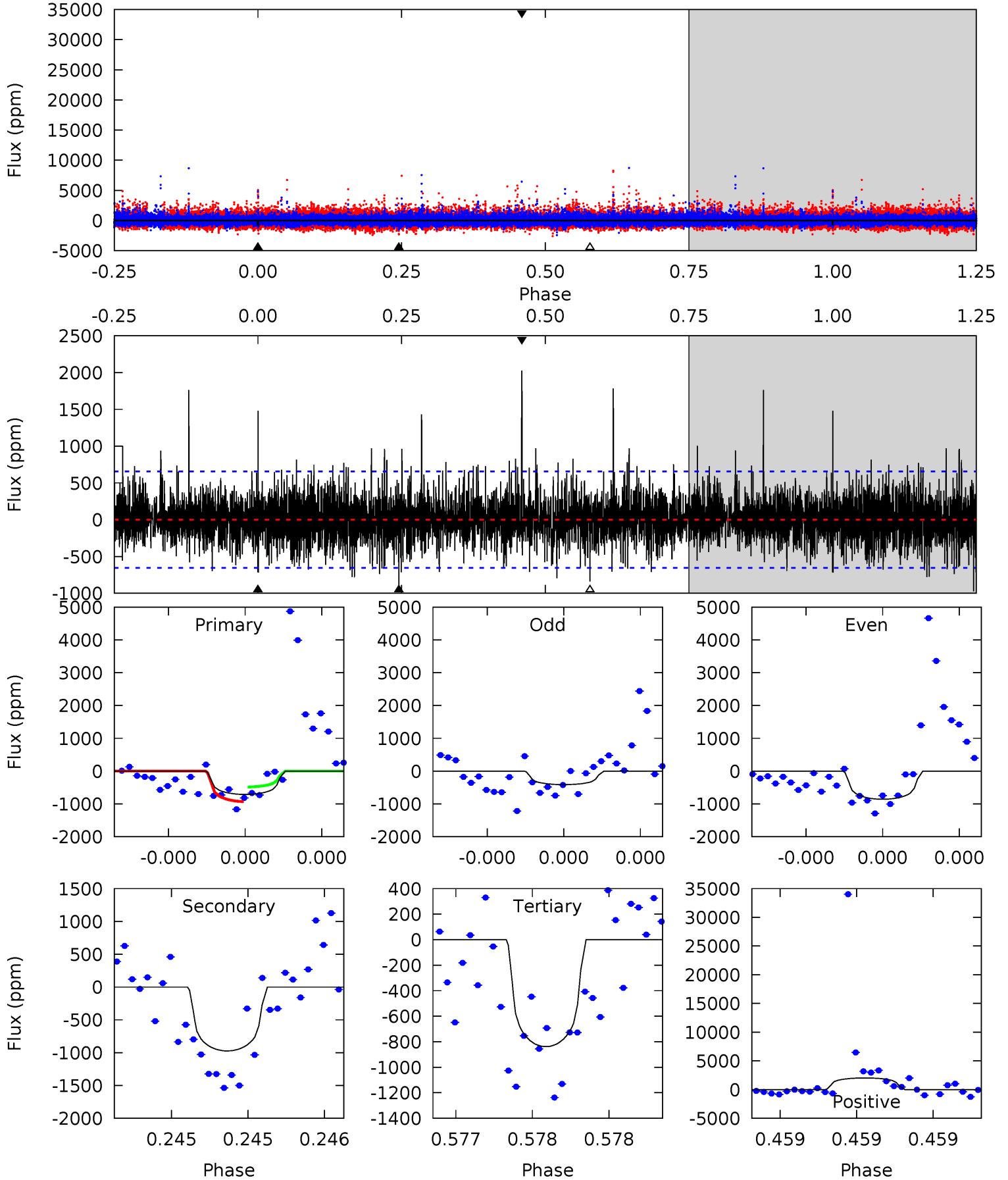
TCE 006507888-02 P=610.793164 Days $T_0=226.200672$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-02, P = 610.794592 Days, E = 226.196180 Days

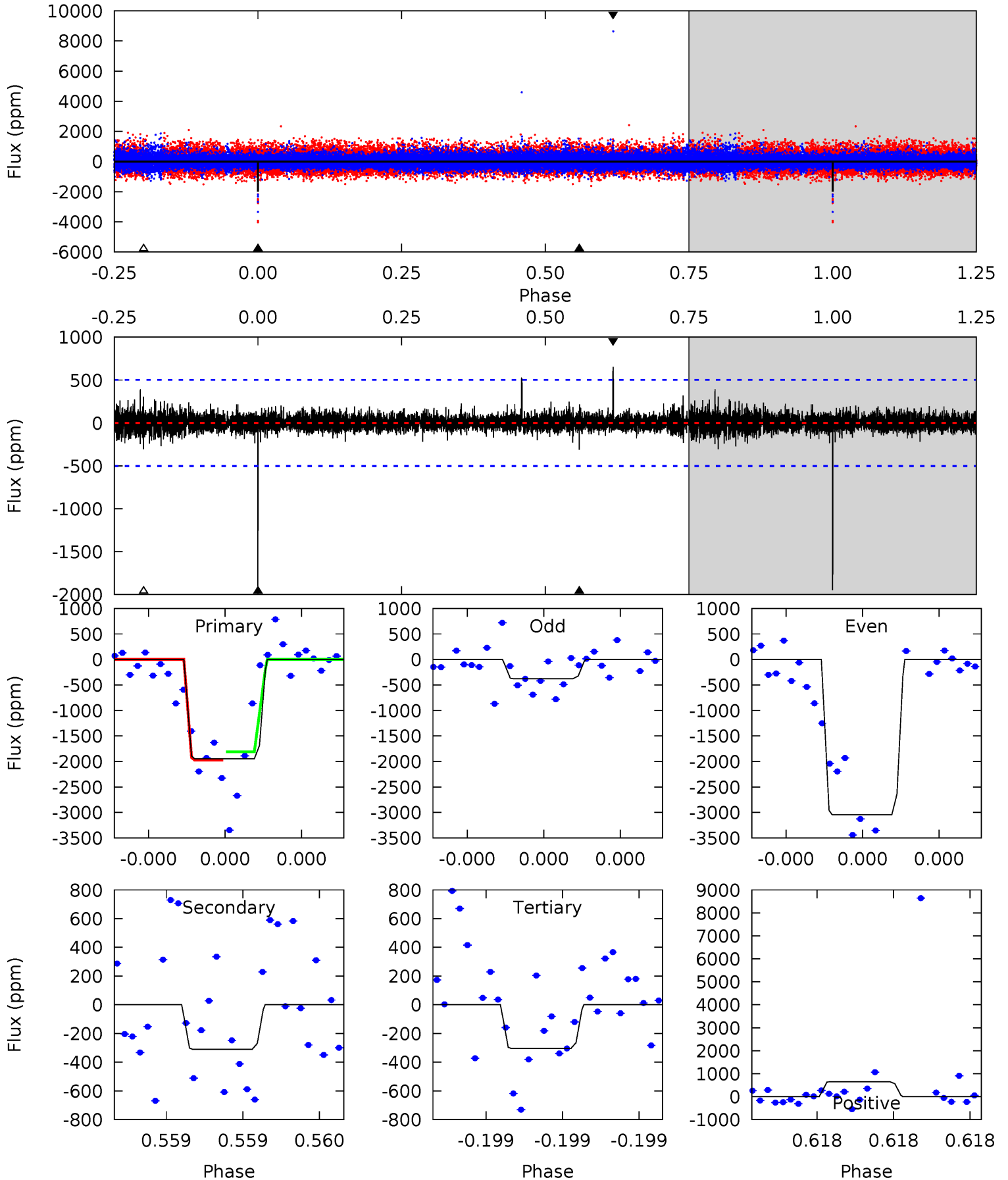
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.12	8.37	7.21	17.4	5.63	3.57	2.13	-1.08	-11.3	1.16	-9.04	1.37	0.83	0.68	1.92



Alt Model-Shift Uniqueness Test

006507888-02, P = 610.793164 Days, E = 226.200672 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
21.9	3.49	3.43	7.33	5.65	3.59	0.63	18.5	14.6	0.06	-3.84	16.9	0.96	0.25	0.86



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-973 ± 116	$3.17^{+2.66}_{-2.10}$	169^{+2}_{-3}	3322^{+1615}_{-534}	$73162^{+588388}_{-52310}$
Alt.	-310 ± 89	$3.53^{+2.87}_{-2.16}$	168^{+2}_{-3}	2748^{+832}_{-390}	17951^{+98013}_{-12507}

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 $A_{obs} \gg 1.0$

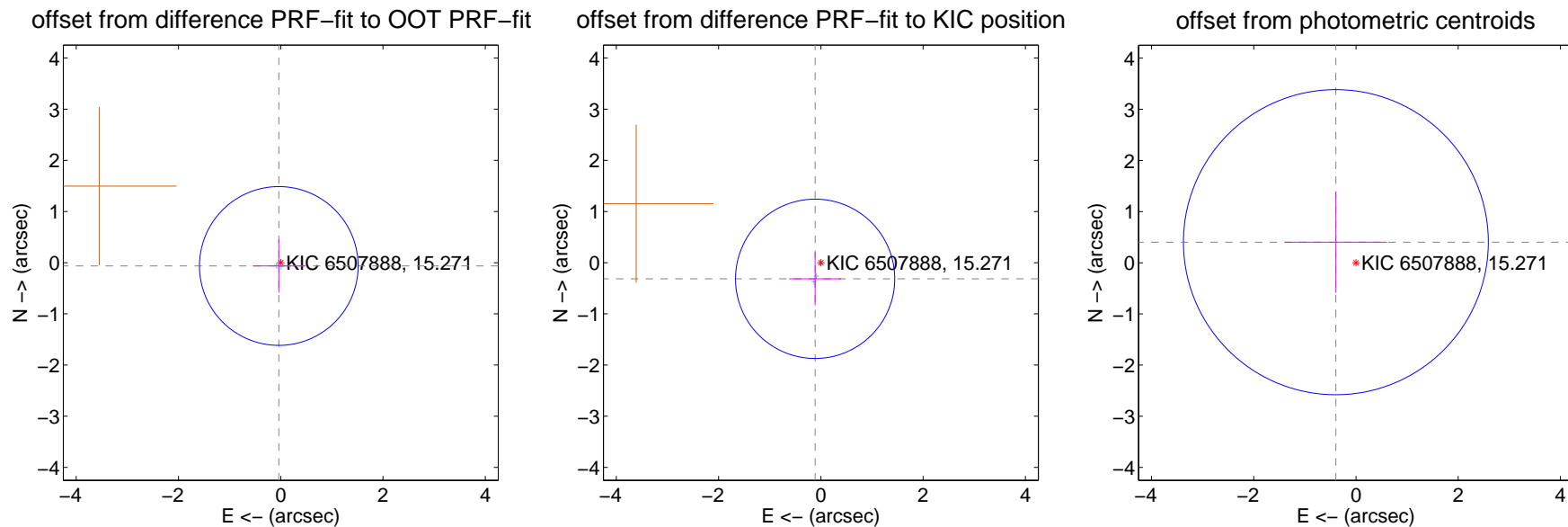
DV Centroid Data

Supplemental centroid analysis for 006507888-02. Kepler magnitude: 15.27. Transit SNR 6.78

There are 2 quarters with good PRF difference image offsets

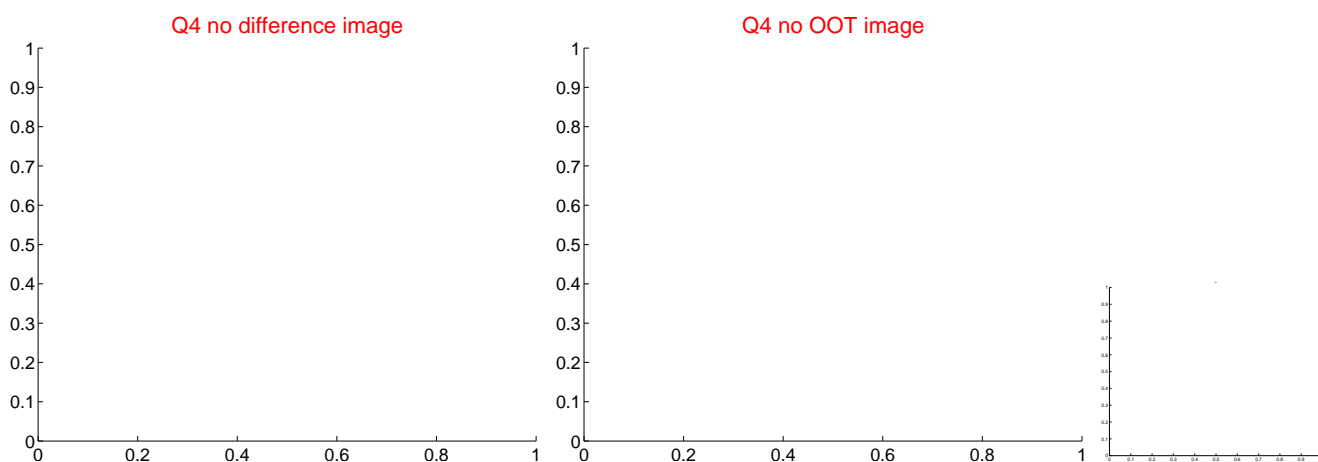
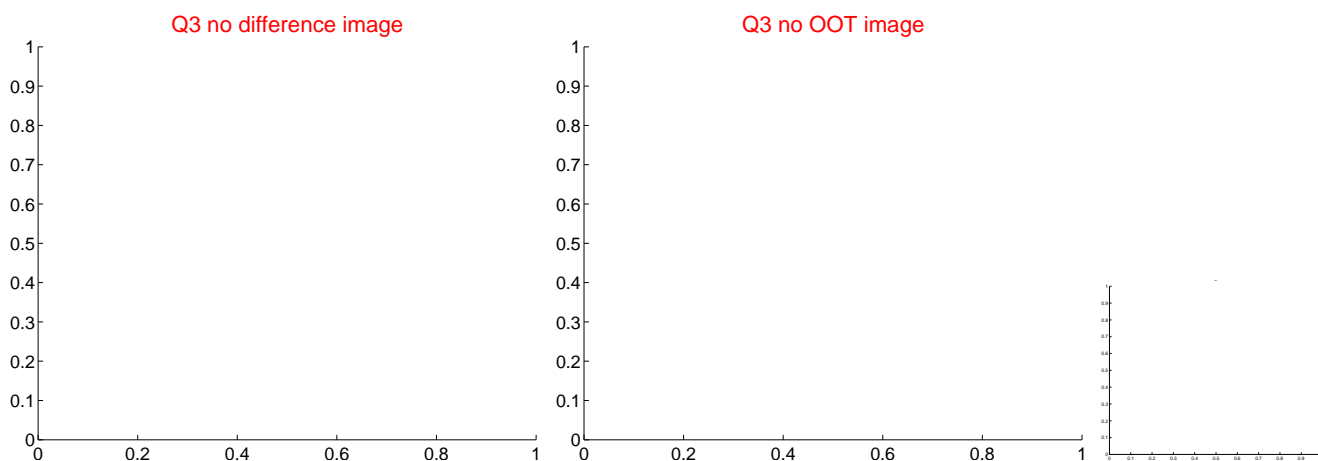
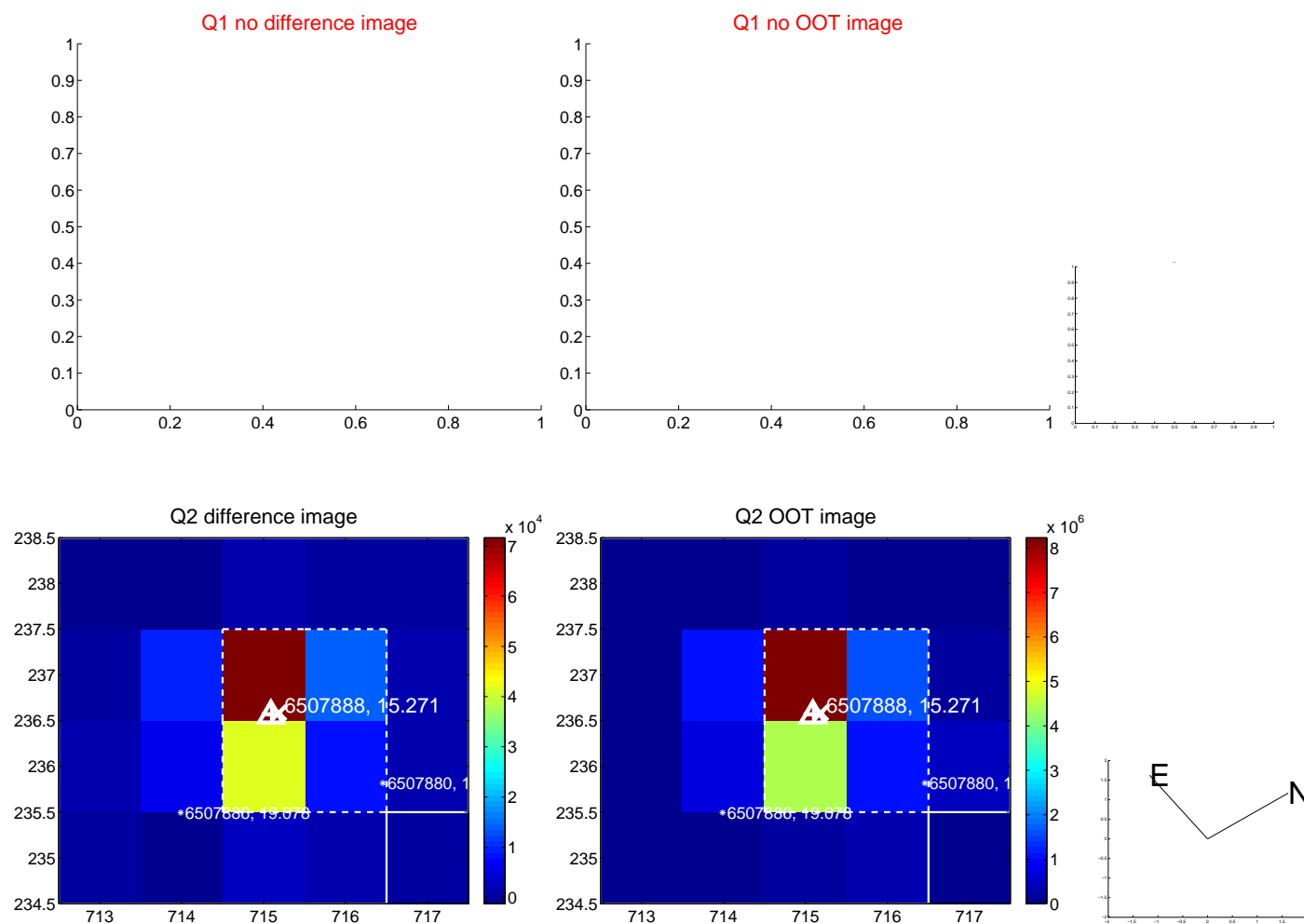
The direct PRF centroid is offset from the target star catalog position by about 0.21 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.075 ± 0.517	0.14	0.038 ± 0.508	-0.064 ± 0.520
PRF-fit source offset from KIC position	0.334 ± 0.519	0.64	0.112 ± 0.508	-0.315 ± 0.520
photometric centroid source offset	0.56 ± 0.99	0.57	0.39 ± 1.00	0.40 ± 0.99



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

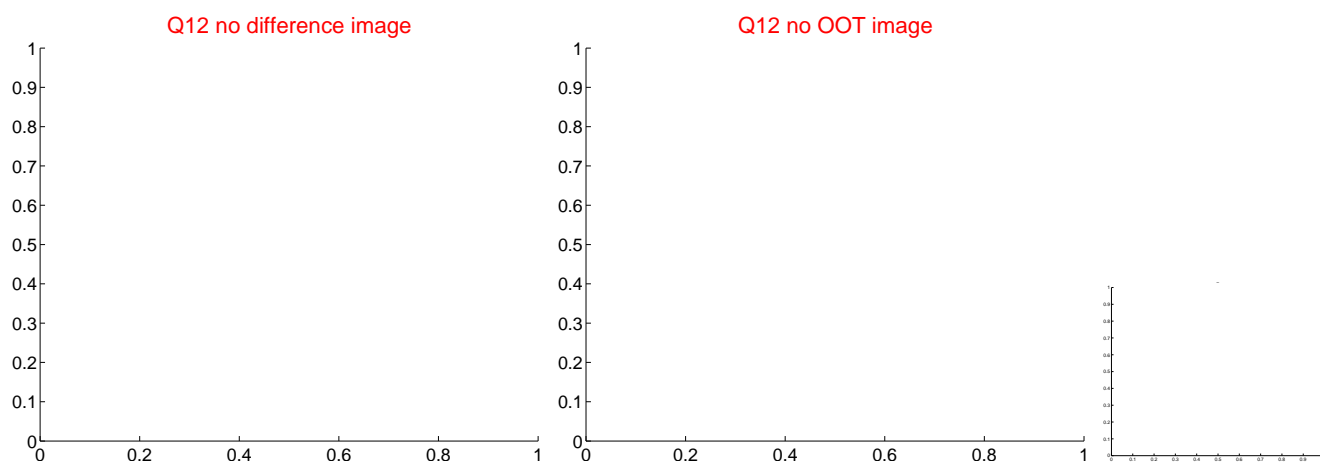
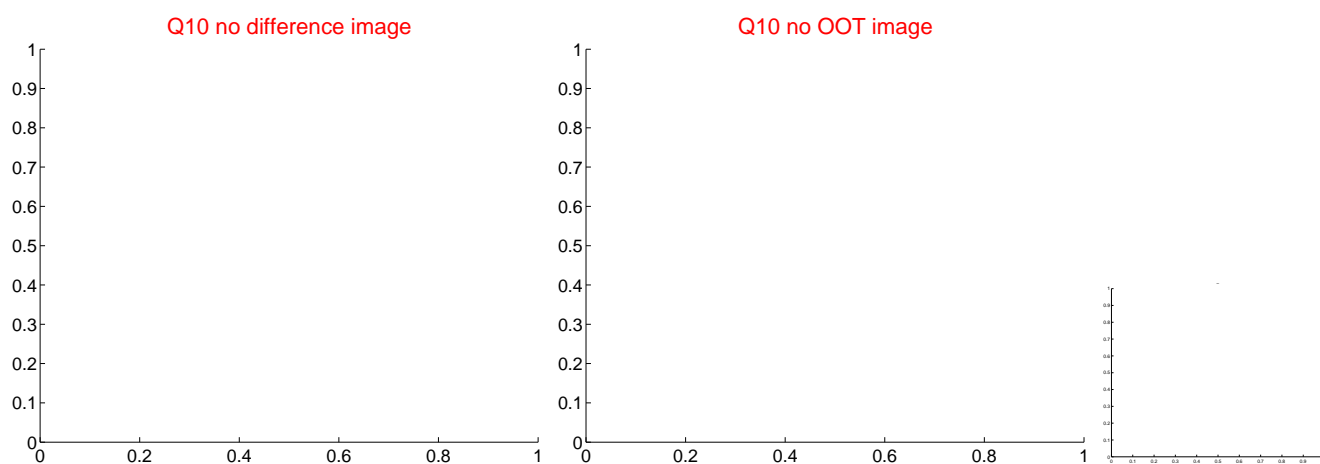
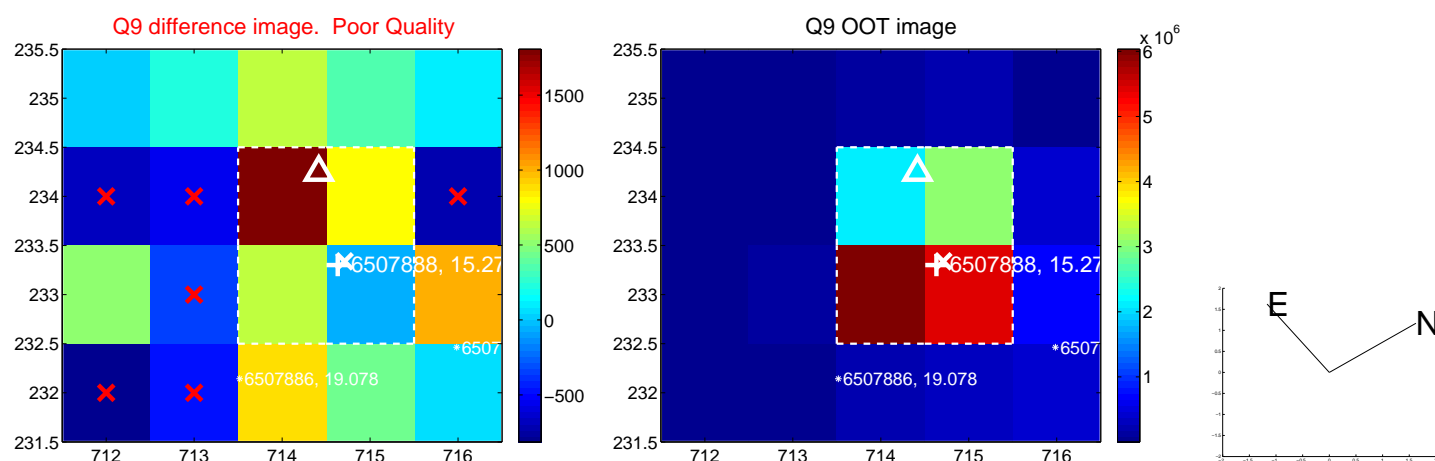
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



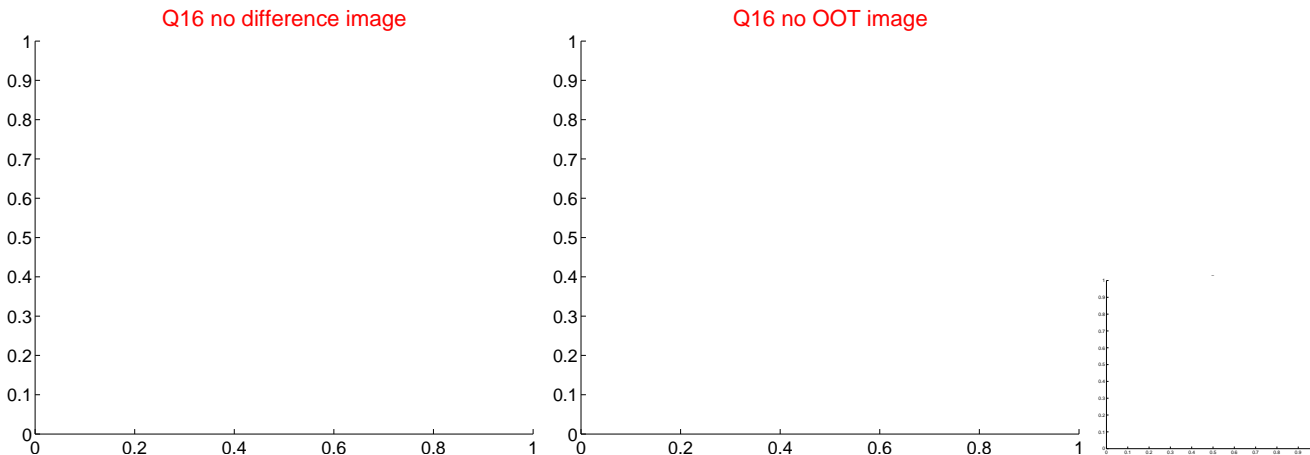
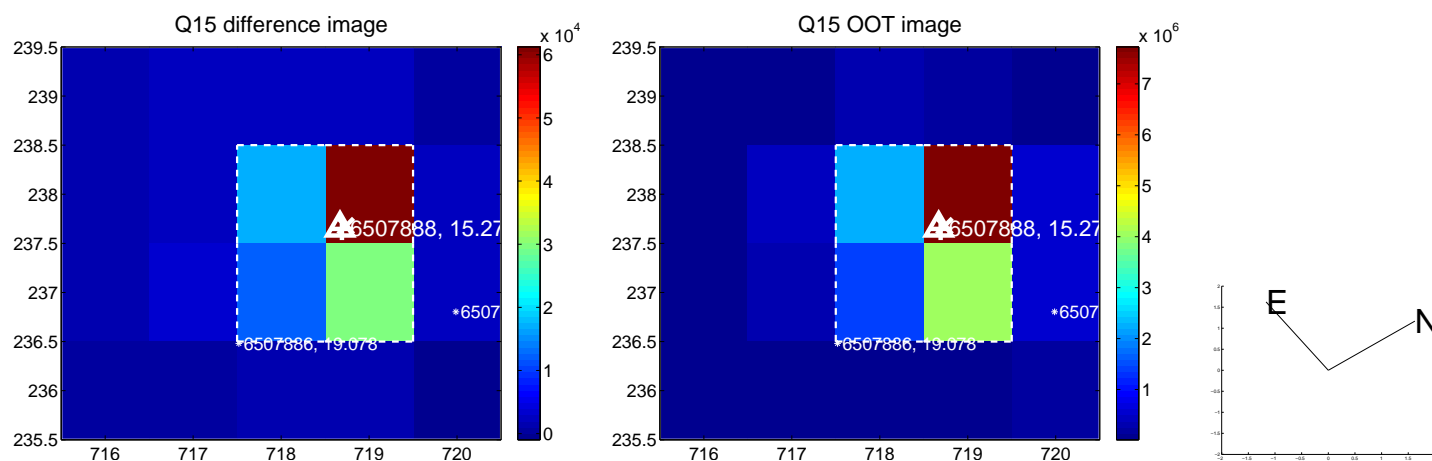
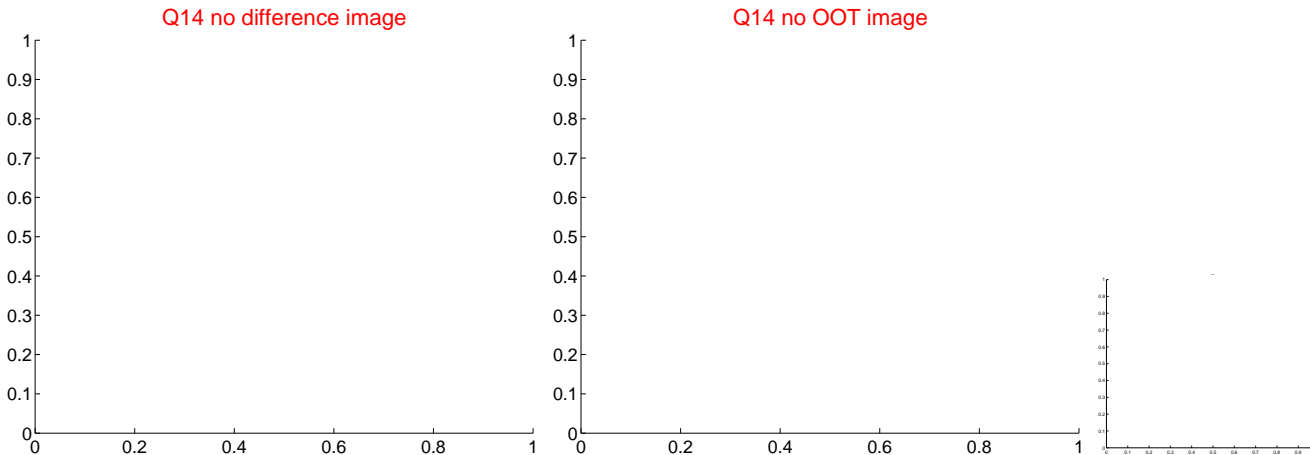
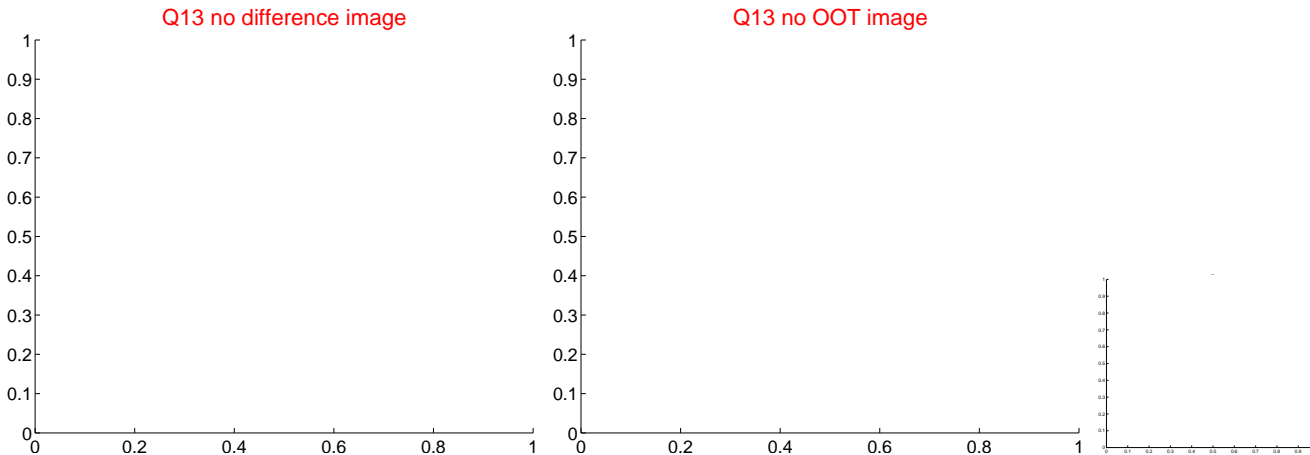
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



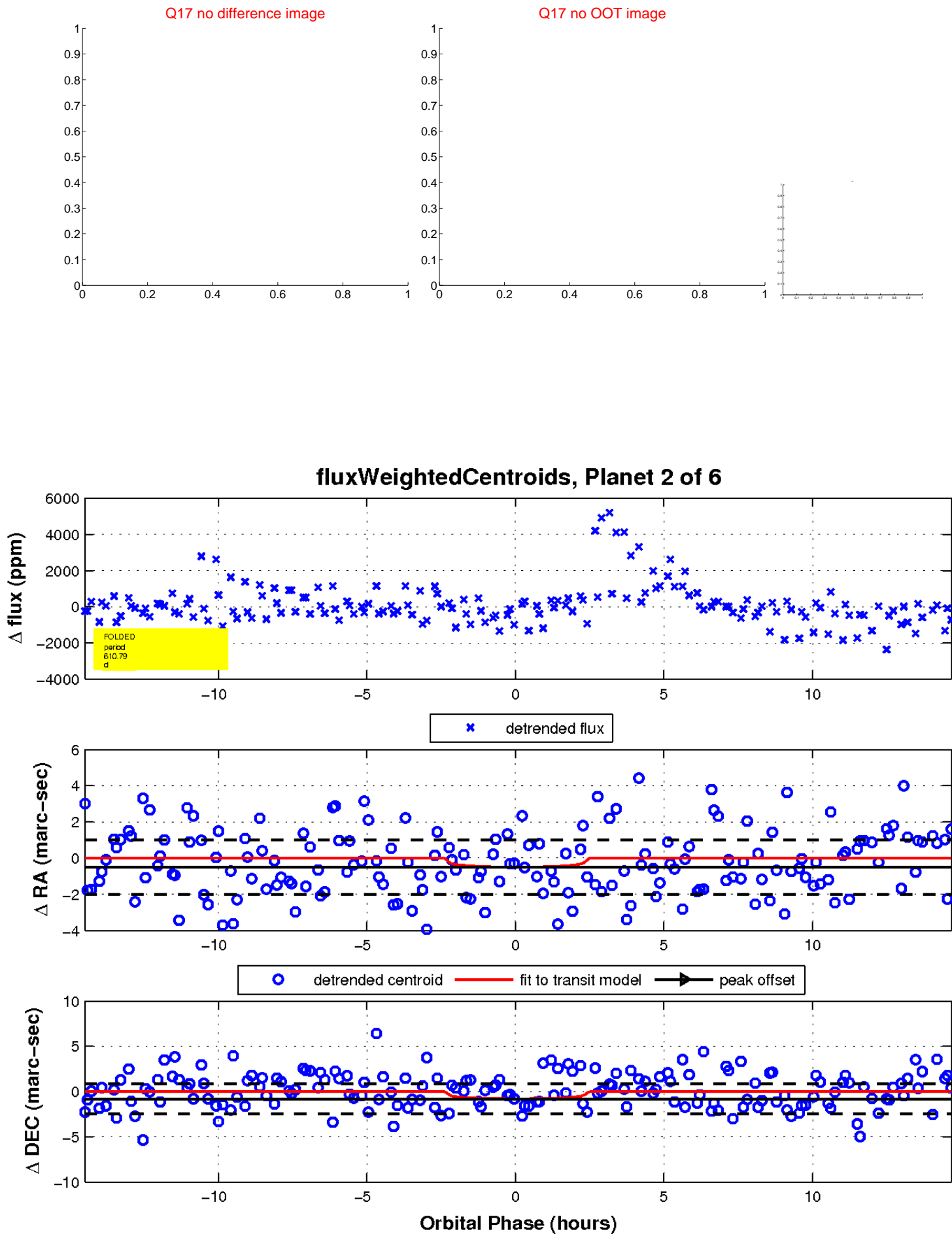
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

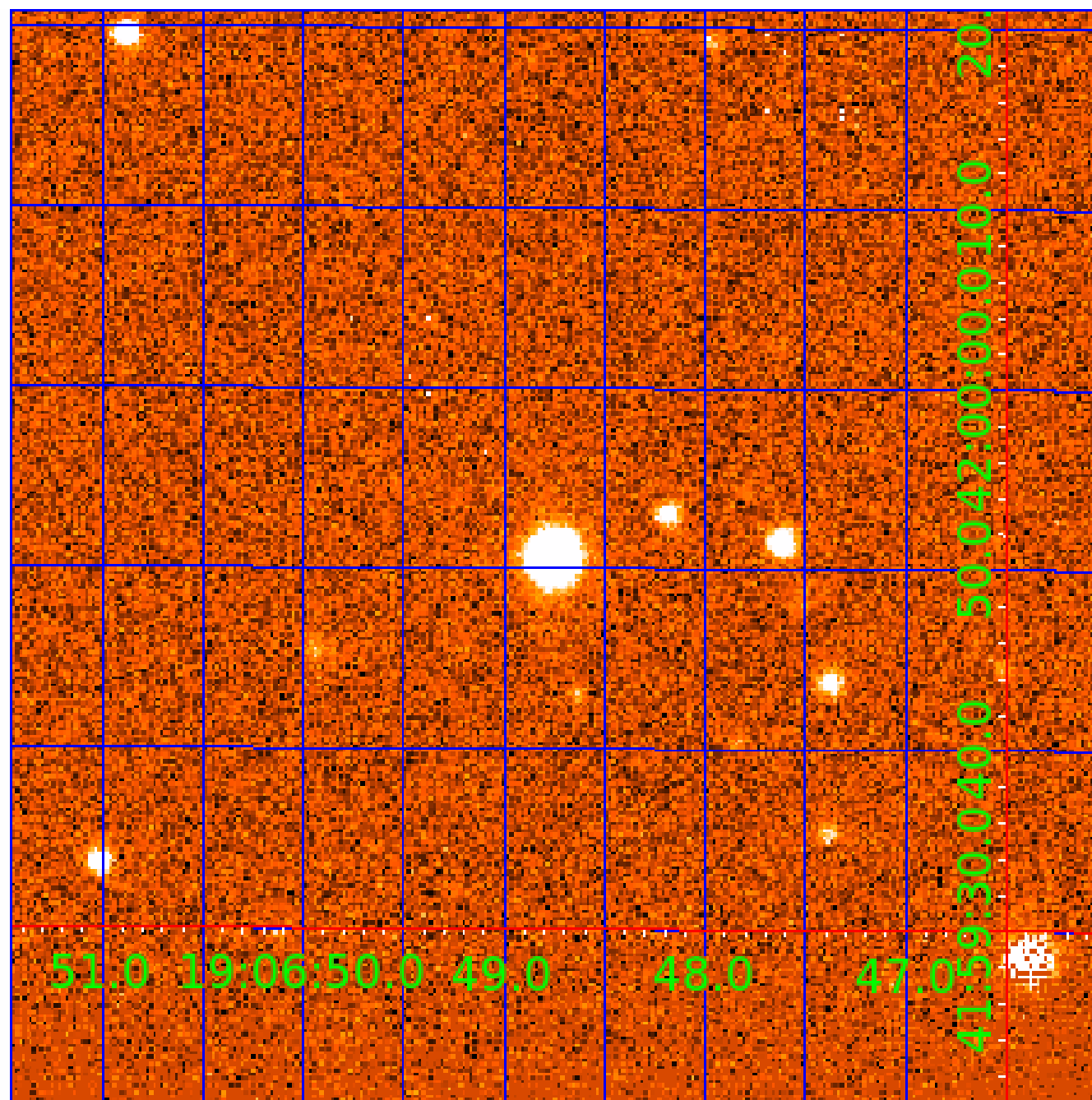


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006507888

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})
006507888-01	OBS	No	333.718841	148.888920	1443.7	3.331	14.4	8.1	0.56	3949	2.22	0.11
006507888-02	OBS	No	610.794592	226.196180	1289.2	4.896	11.5	6.8	0.56	3949	2.02	0.05
006507888-03	OBS	No	365.271334	371.332735	1160.4	4.417	11.8	6.1	0.56	3949	1.94	0.10
006507888-04	OBS	No	468.990012	171.941716	445.7	5.075	9.4	2.6	0.56	3949	1.28	0.07
006507888-05	OBS	No	468.987084	173.215712	91.2	2.366	10.4	0.5	0.56	3949	0.63	0.07
006507888-06	OBS	No	468.991732	173.106538	624.1	12.184	9.5	2.2	0.56	3949	1.37	0.07

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
006507888-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
006507888-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—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.

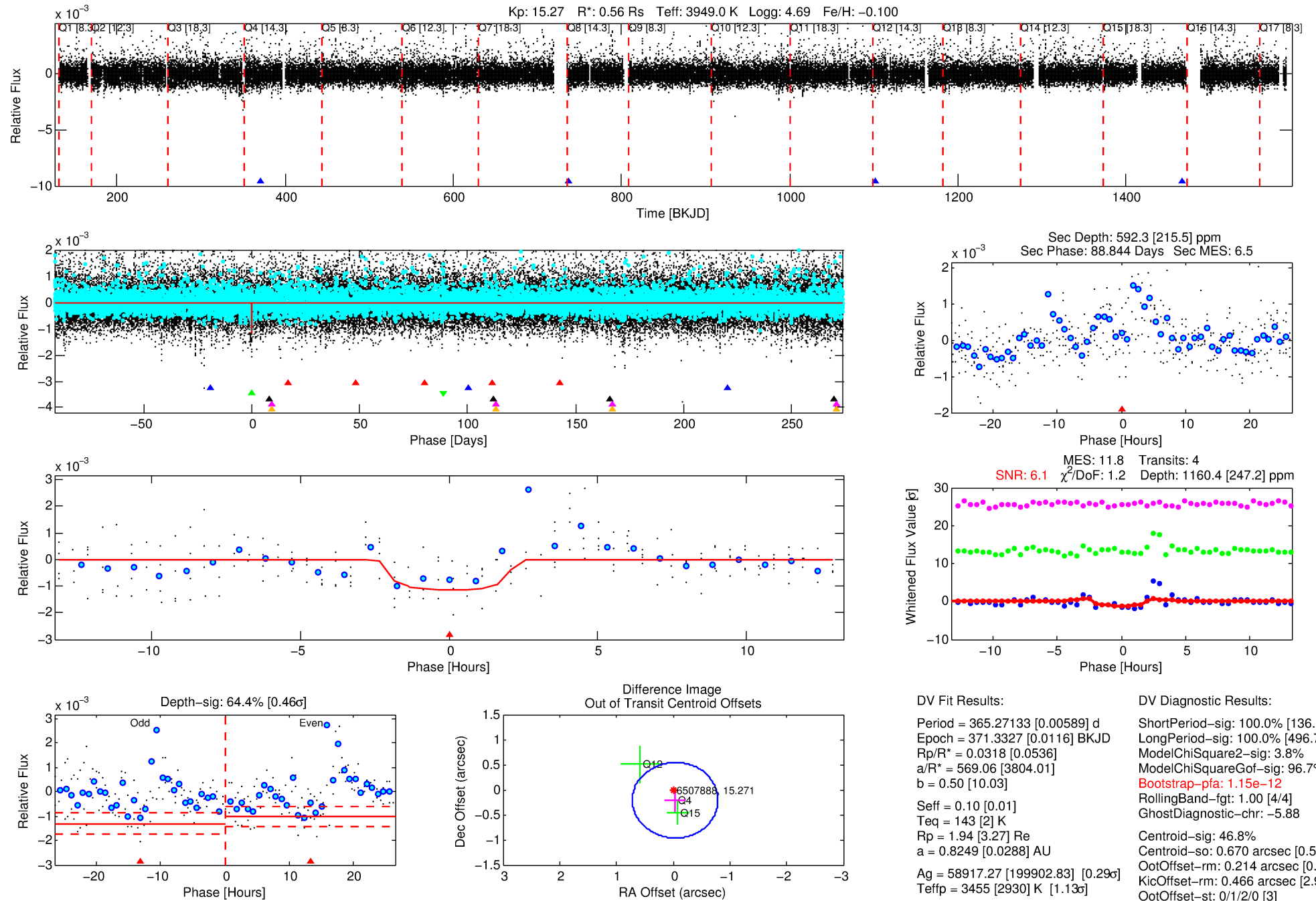
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-03

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 3 of 6 Period: 365.271 d



DV Fit Results:

Period = 365.27133 [0.00589] d
 Epoch = 371.3327 [0.0116] BKJD
 Rp/R* = 0.0318 [0.0536]
 a/R* = 569.06 [3804.01]
 b = 0.50 [10.03]
 Seff = 0.10 [0.01]
 Teq = 143 [2] K
 Rp = 1.94 [3.27] Re
 a = 0.8249 [0.0288] AU
 Ag = 58917.27 [199902.83] [0.29 σ]
 Teffp = 3455 [2930] K [1.13 σ]

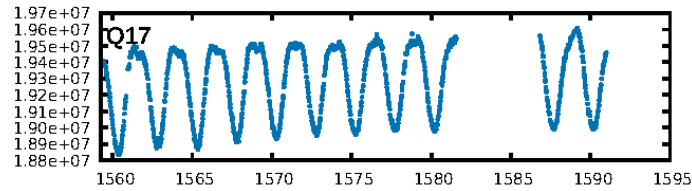
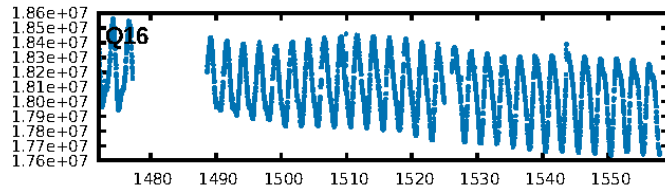
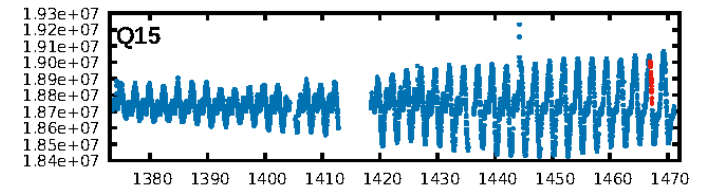
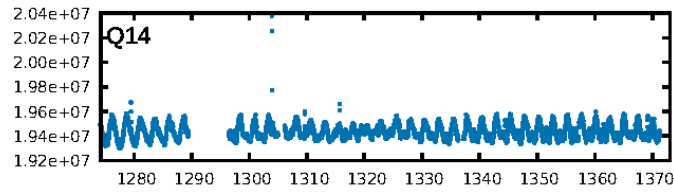
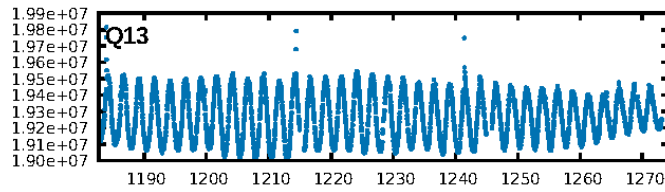
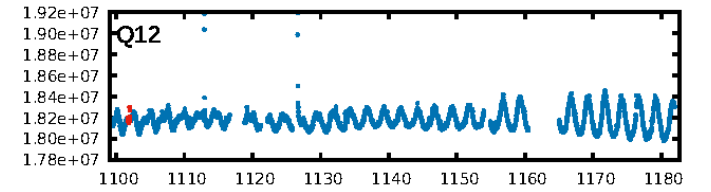
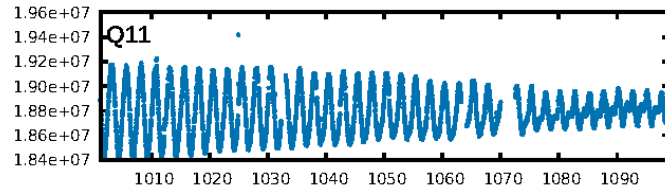
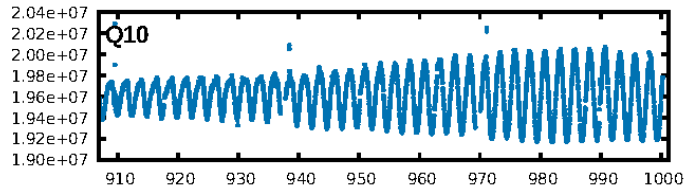
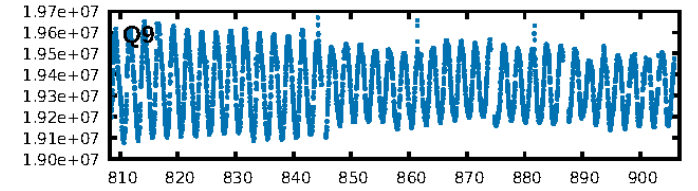
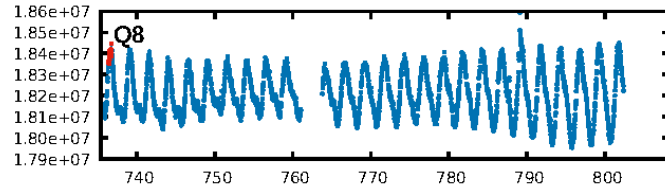
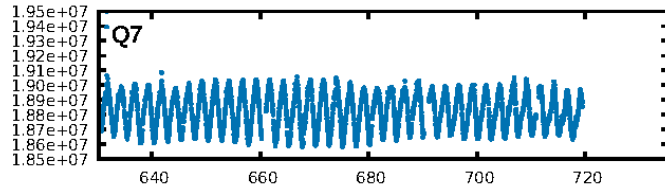
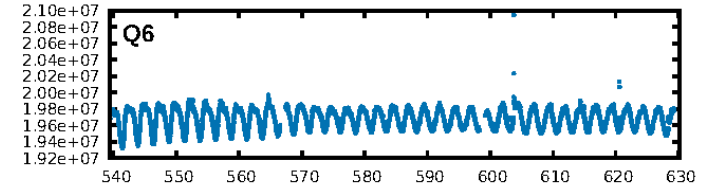
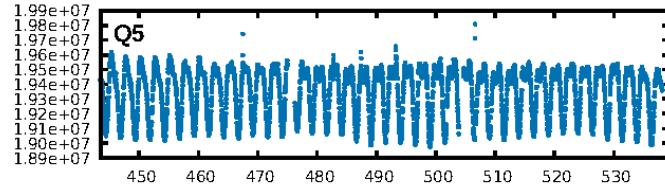
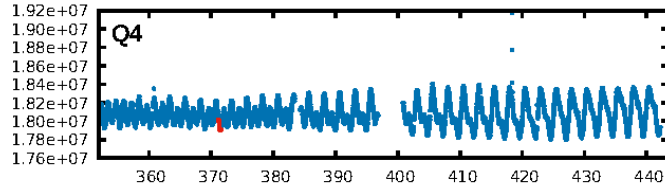
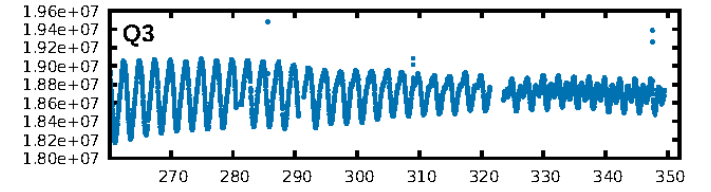
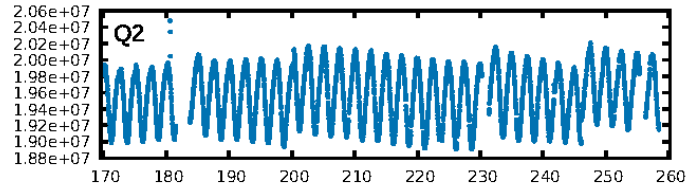
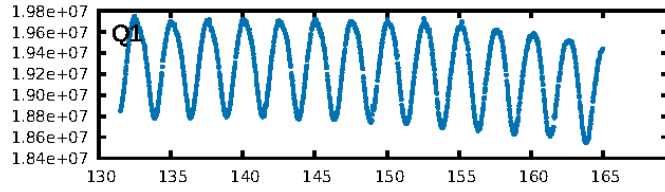
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [136.89 σ]
 LongPeriod-sig: 100.0% [496.78 σ]
 ModelChiSquare2-sig: 3.8%
 ModelChiSquareGof-sig: 96.7%
 Bootstrap-pfa: 1.15e-12
 RollingBand-fgt: 1.00 [4/4]
 GhostDiagnostic-chr: -5.88
 Centroid-sig: 46.8%
 Centroid-so: 0.670 arcsec [0.58 σ]
 OotOffset-rm: 0.214 arcsec [0.85 σ]
 OotOffset-st: 0/1/2/0 [3]
 KicOffset-rm: 0.466 arcsec [2.94 σ]
 KicOffset-st: 0/1/2/0 [3]
 DiffImageQuality-fgm: 0.67 [2/3]
 DiffImageOverlap-fno: 1.00 [3/3]

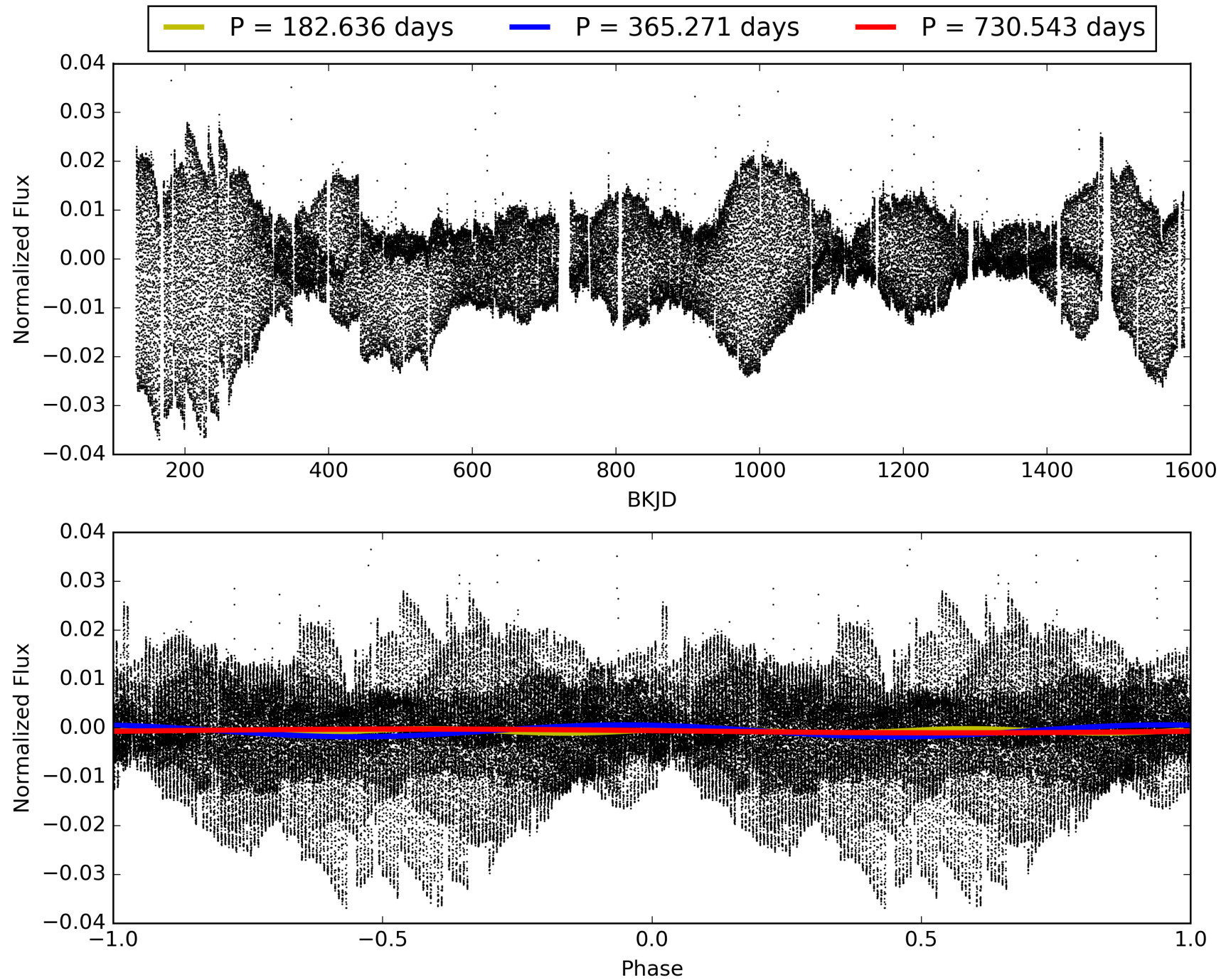
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:02:19 Z

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

TCE 006507888-03, PDC Light Curves

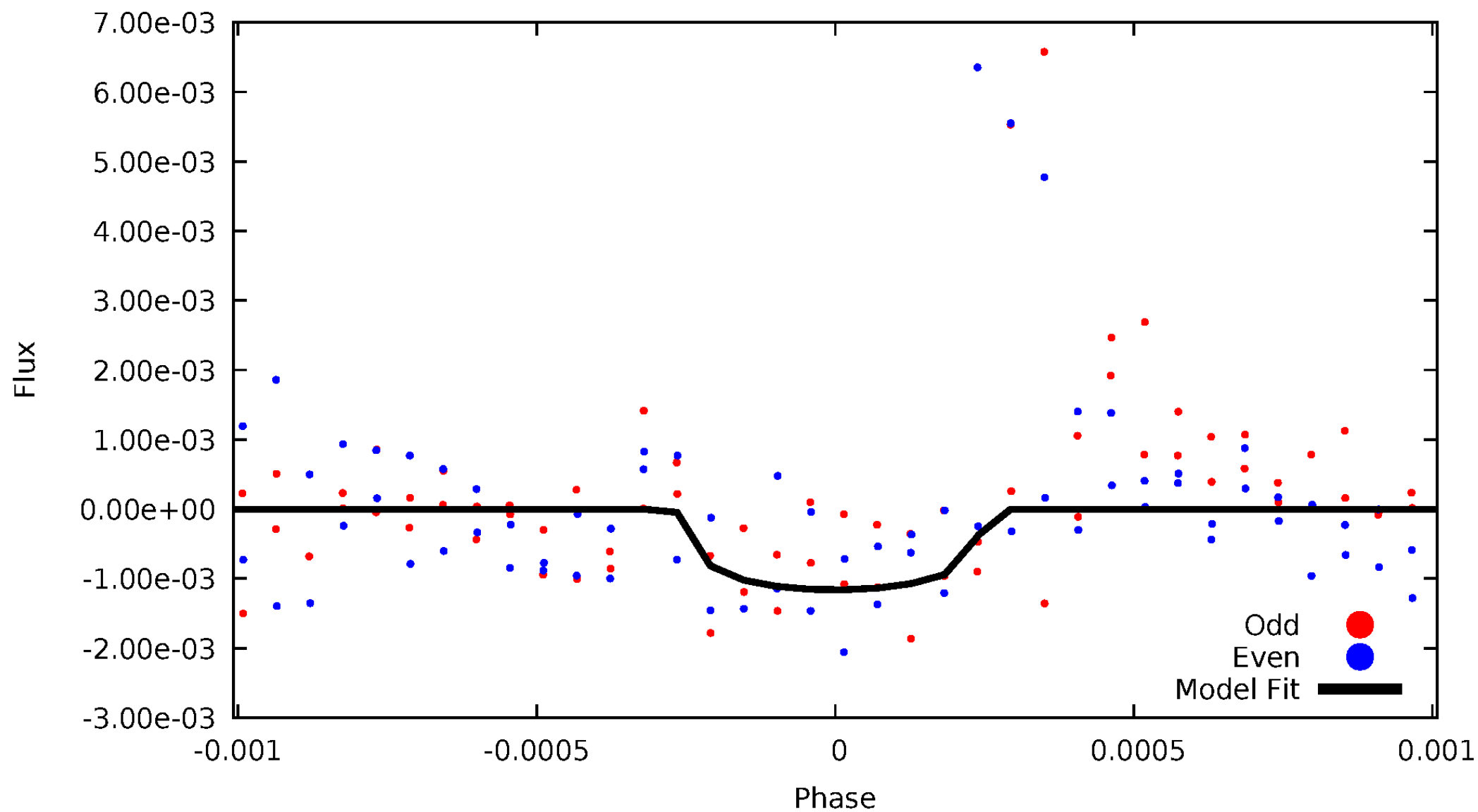


TCE 006507888-03



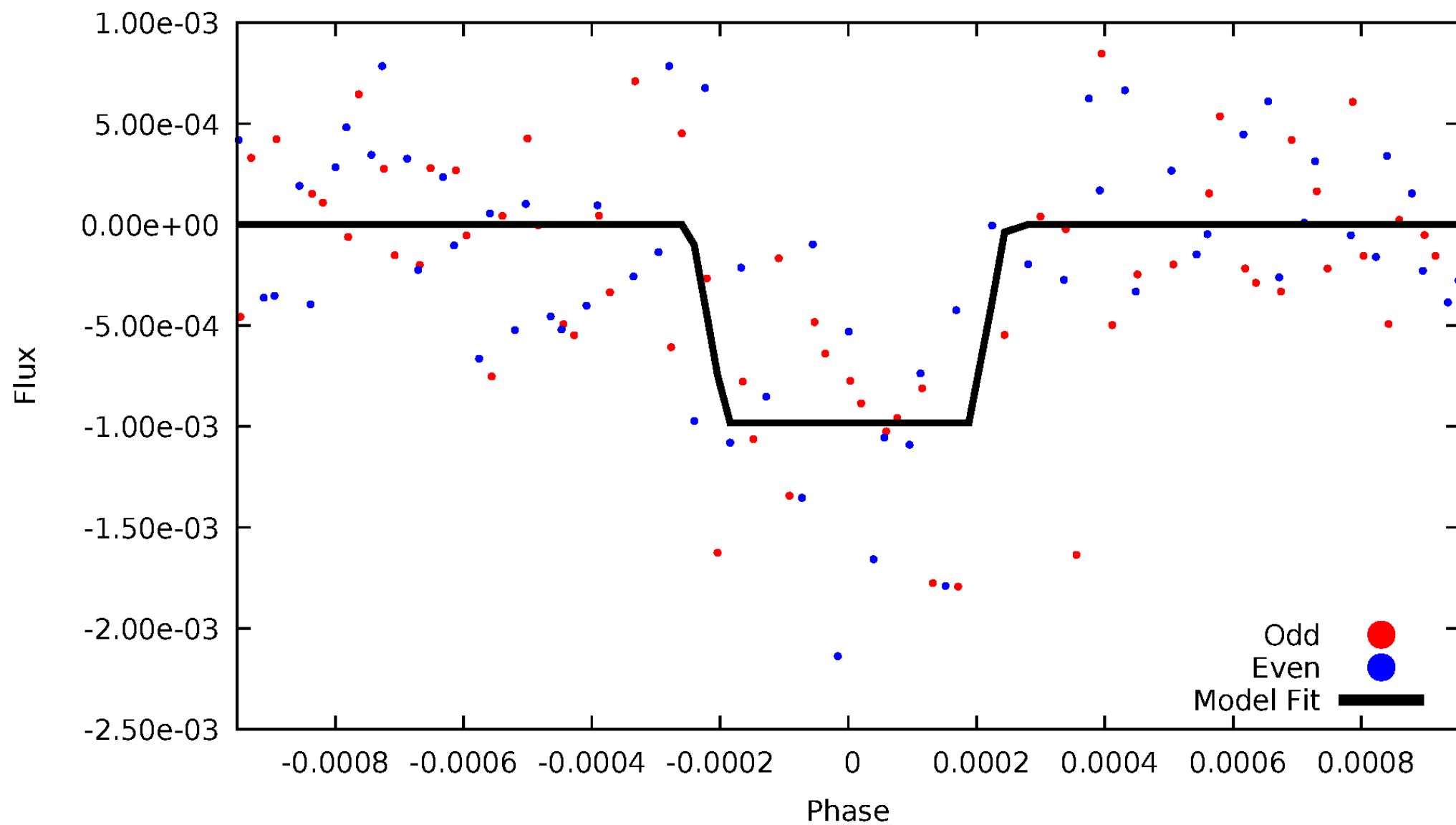
DV Odd/Even

TCE 006507888-03



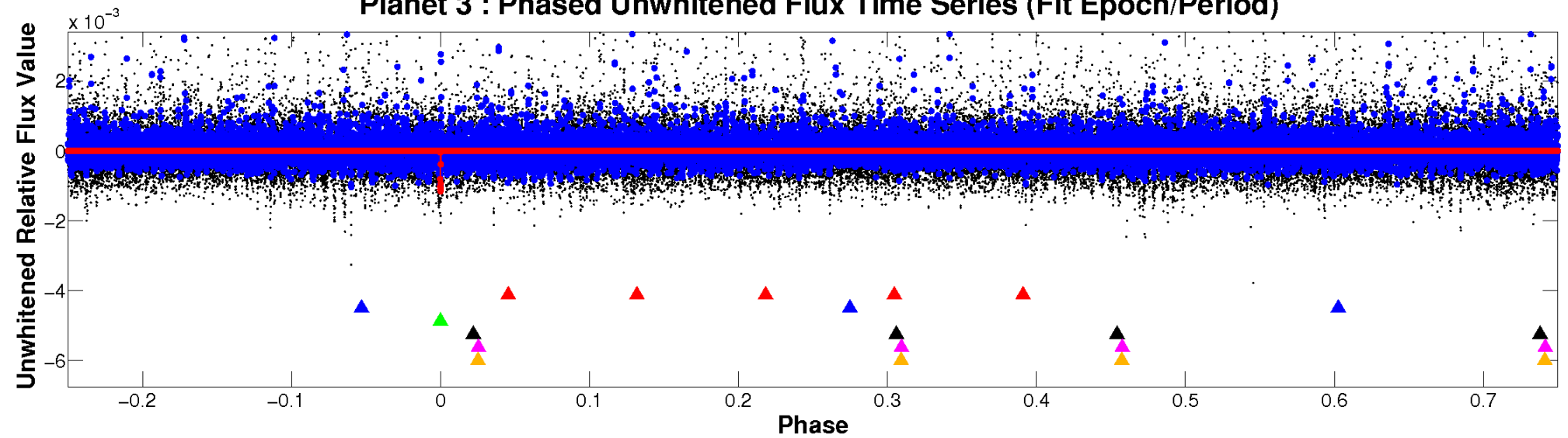
ALT Odd/Even

TCE 006507888-03

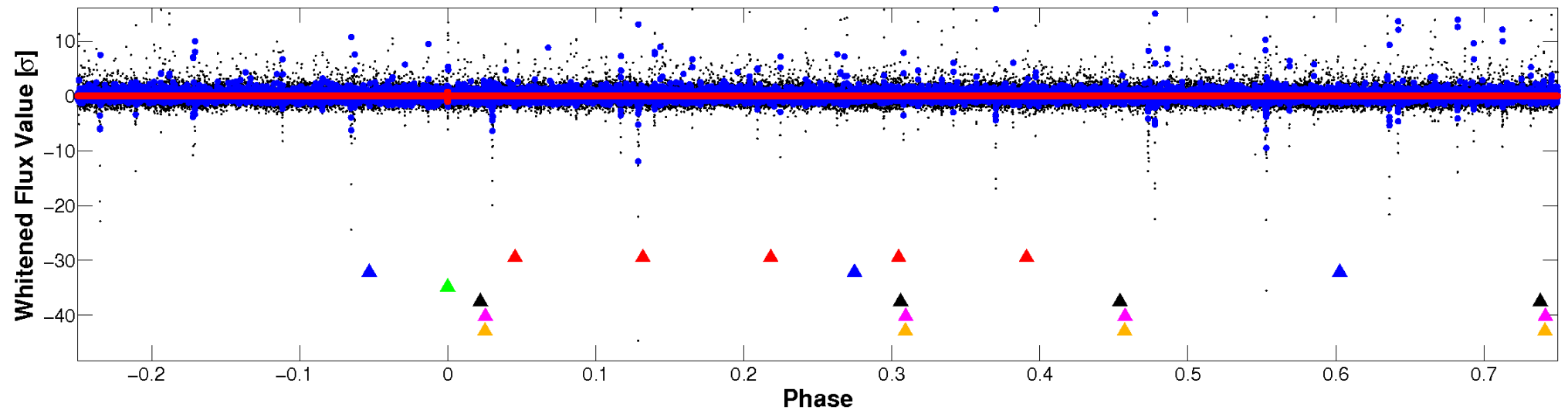


Non-Whitened Vs. Whitened Light Curve

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

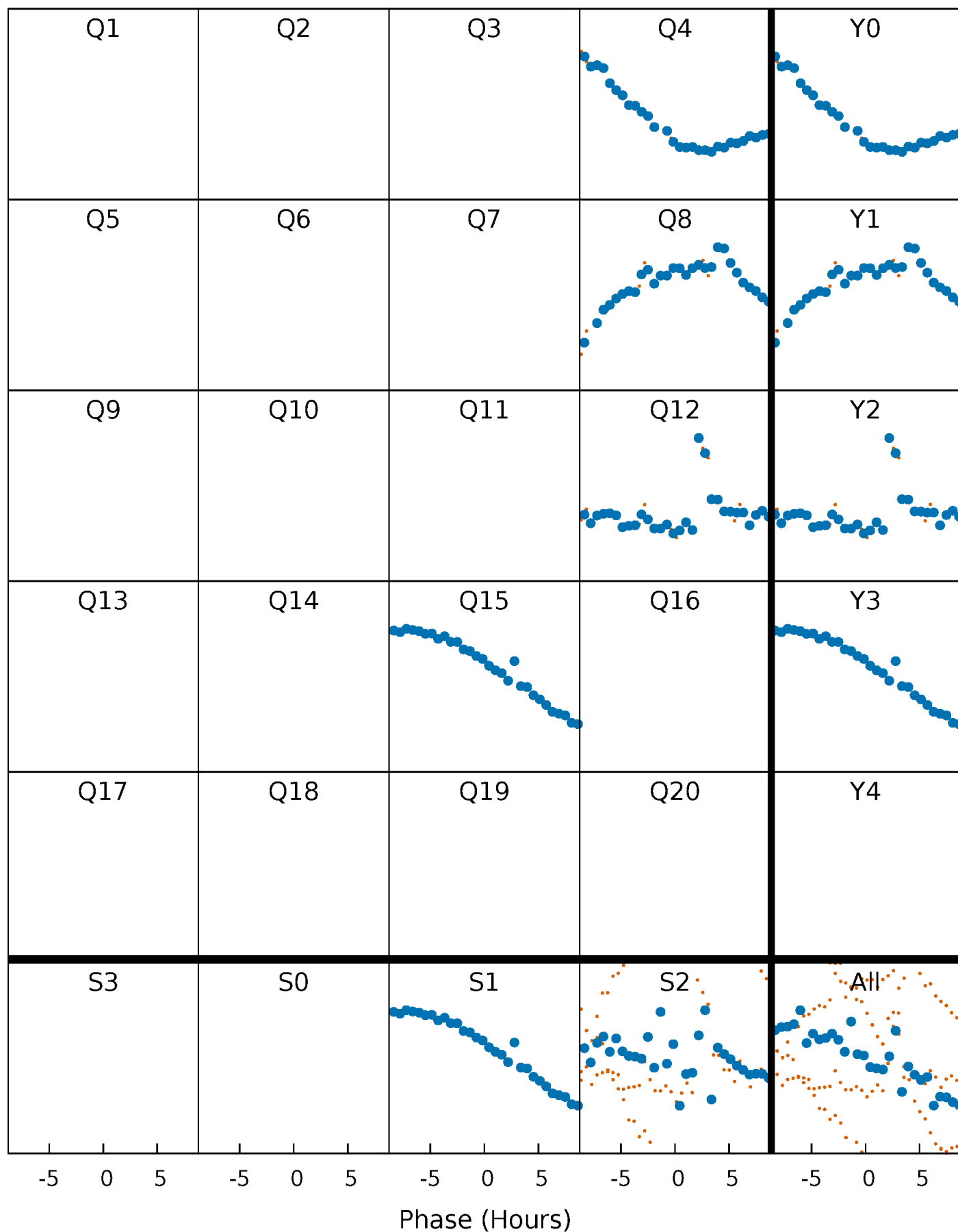


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



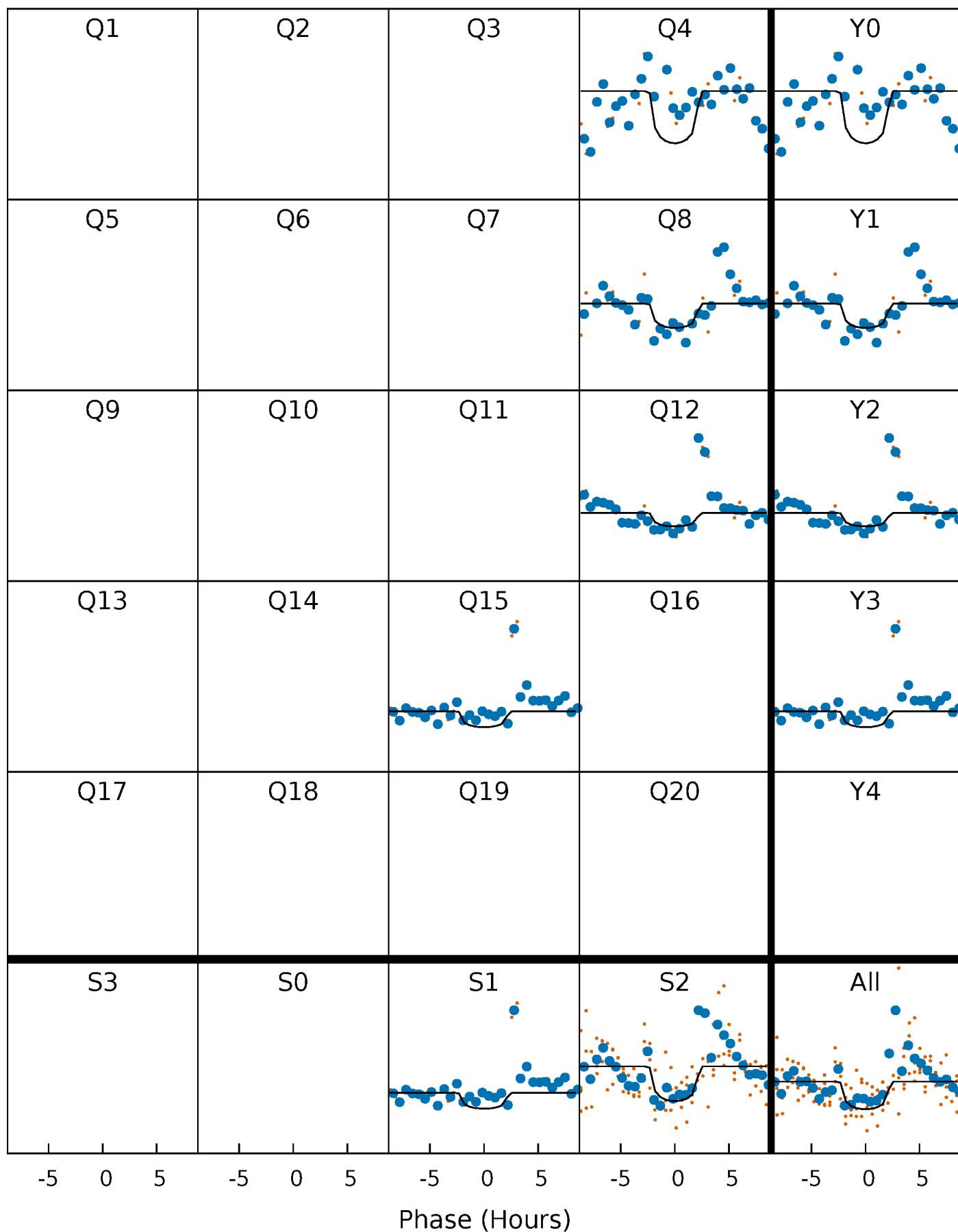
PDC Quarter-Phased Transit Curves

TCE 006507888-03 P=365.271334 Days $T_0=371.332735$ (BKJD)



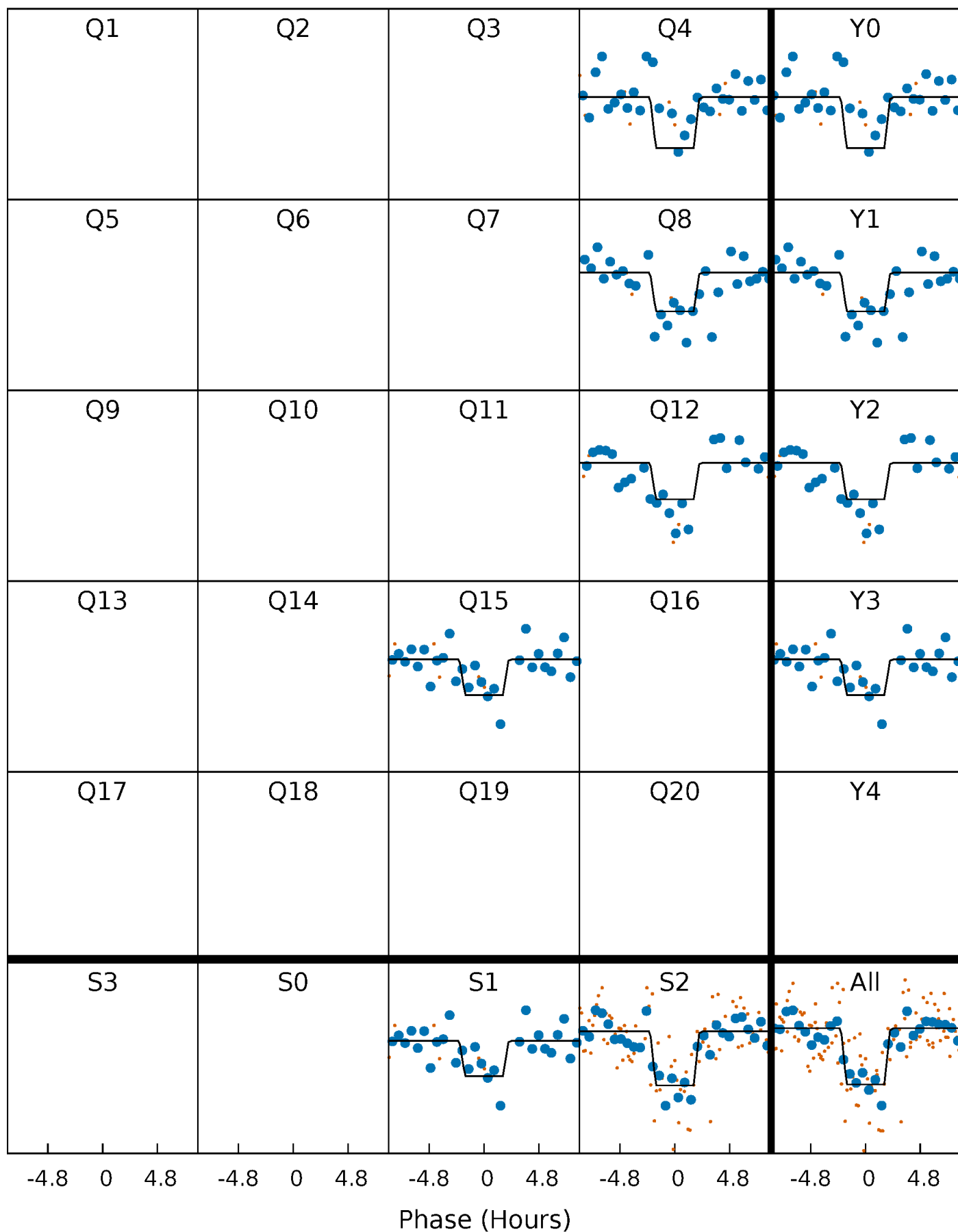
DV Quarter-Phased Transit Curves

TCE 006507888-03 P=365.271334 Days $T_0=371.332735$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

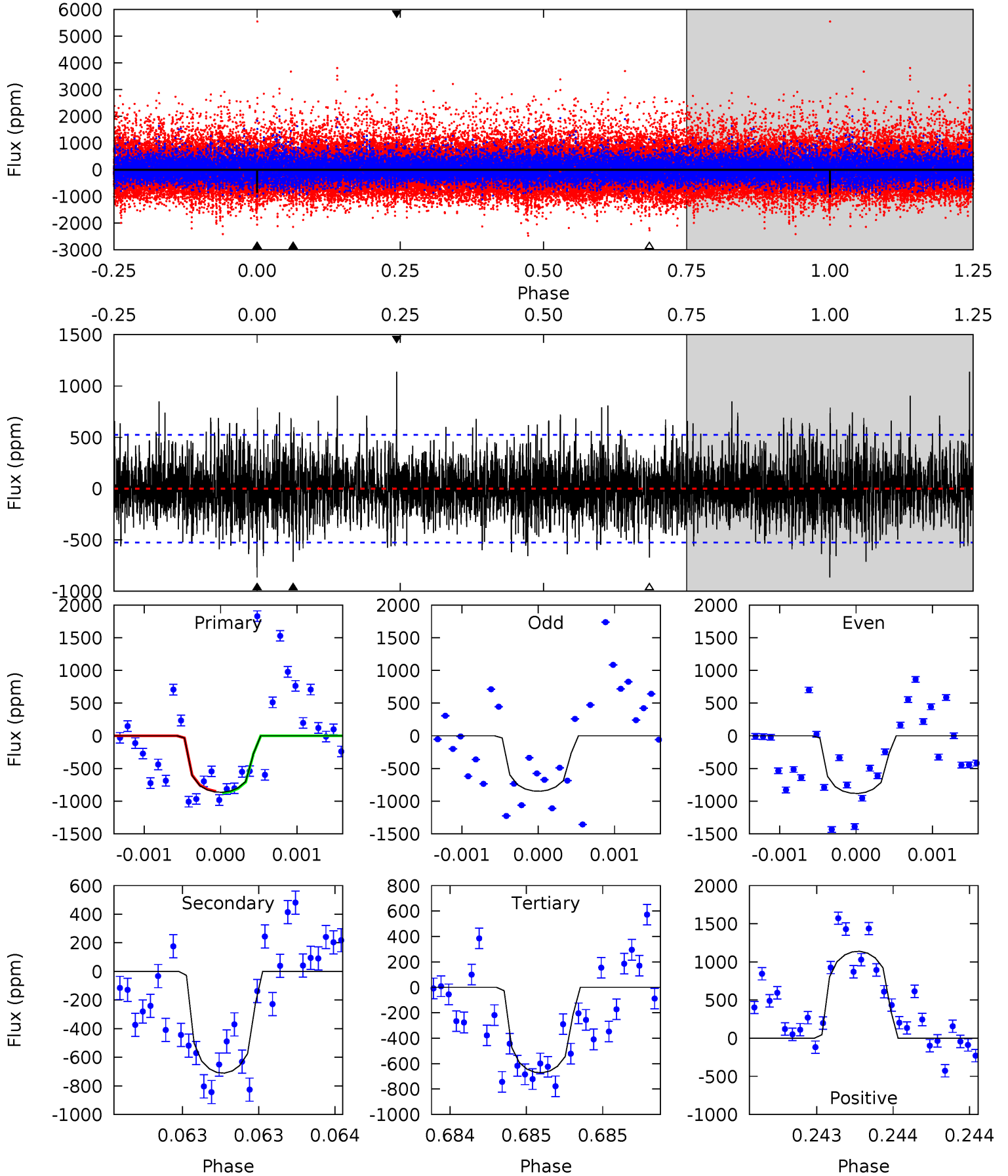
TCE 006507888-03 P=365.284437 Days $T_0=371.317833$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-03, P = 365.271334 Days, E = 6.061401 Days

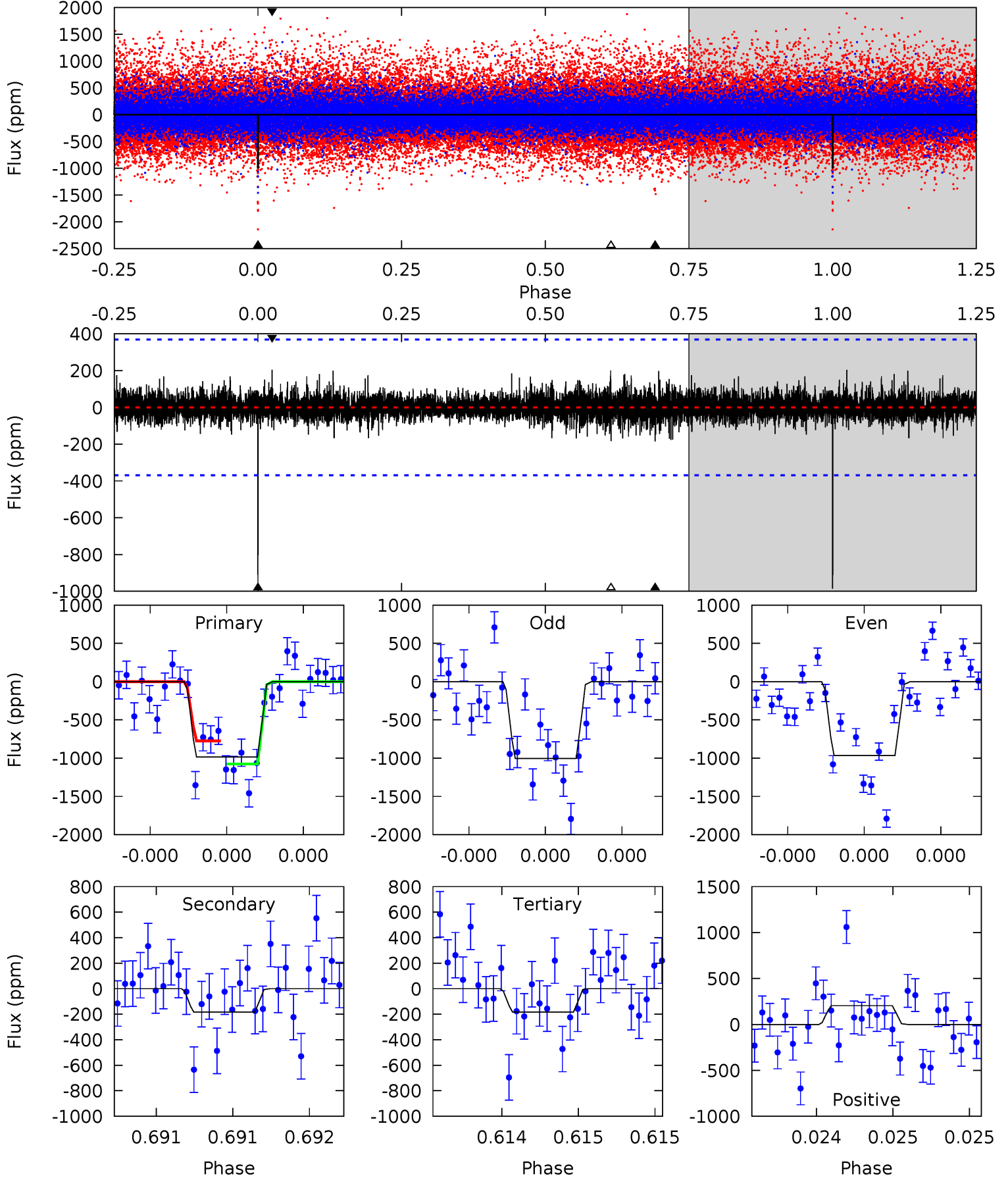
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.16	7.53	7.12	12.1	5.55	3.45	2.16	2.04	-2.91	0.41	-4.54	0.17	1.05	0.57	0.14



Alt Model-Shift Uniqueness Test

006507888-03, P = 365.284437 Days, E = 6.033396 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
14.9	2.79	2.76	3.09	5.59	3.50	0.64	12.2	11.8	0.02	-0.30	0.30	0.97	0.17	0



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-03 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-711 ± 94	$3.12^{+2.56}_{-2.06}$	200^{+3}_{-3}	3196^{+1442}_{-503}	$27427^{+215405}_{-19520}$
Alt.	-184 ± 66	$2.99^{+2.94}_{-2.03}$	200^{+3}_{-3}	2662^{+1024}_{-414}	7177^{+58346}_{-5457}

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

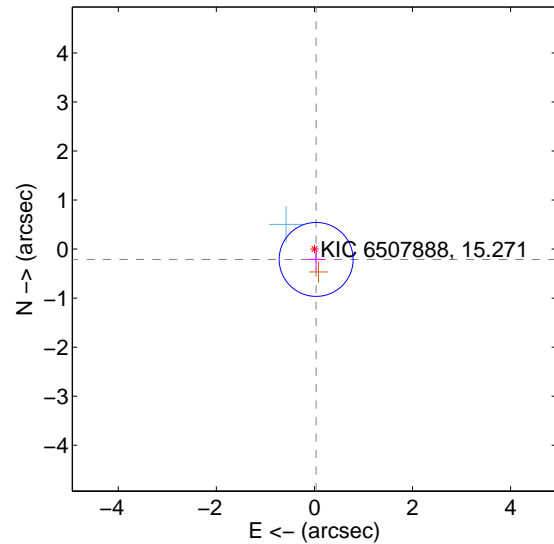
Supplemental centroid analysis for 006507888-03. Kepler magnitude: 15.27. Transit SNR 6.06

There are 2 quarters with good PRF difference image offsets

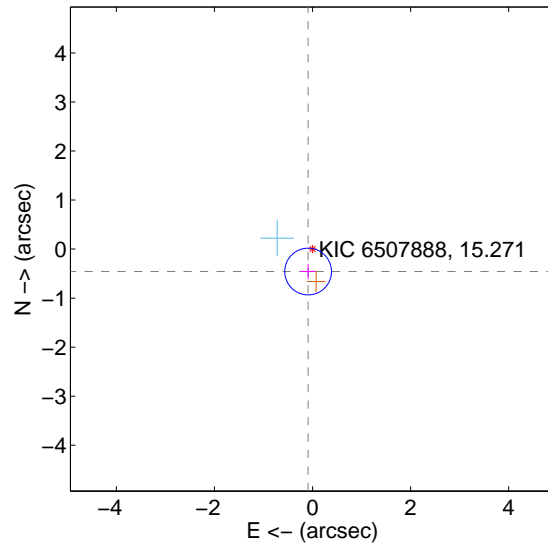
The direct PRF centroid is offset from the target star catalog position by about 0.20 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.214 ± 0.251	0.85	-0.035 ± 0.183	-0.211 ± 0.228
PRF-fit source offset from KIC position	0.466 ± 0.159	2.94	0.090 ± 0.149	-0.457 ± 0.159
photometric centroid source offset	0.67 ± 1.15	0.58	-0.56 ± 1.17	0.37 ± 1.11

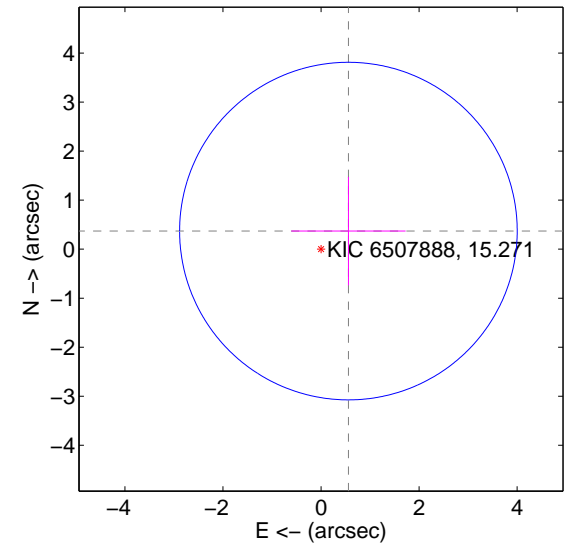
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

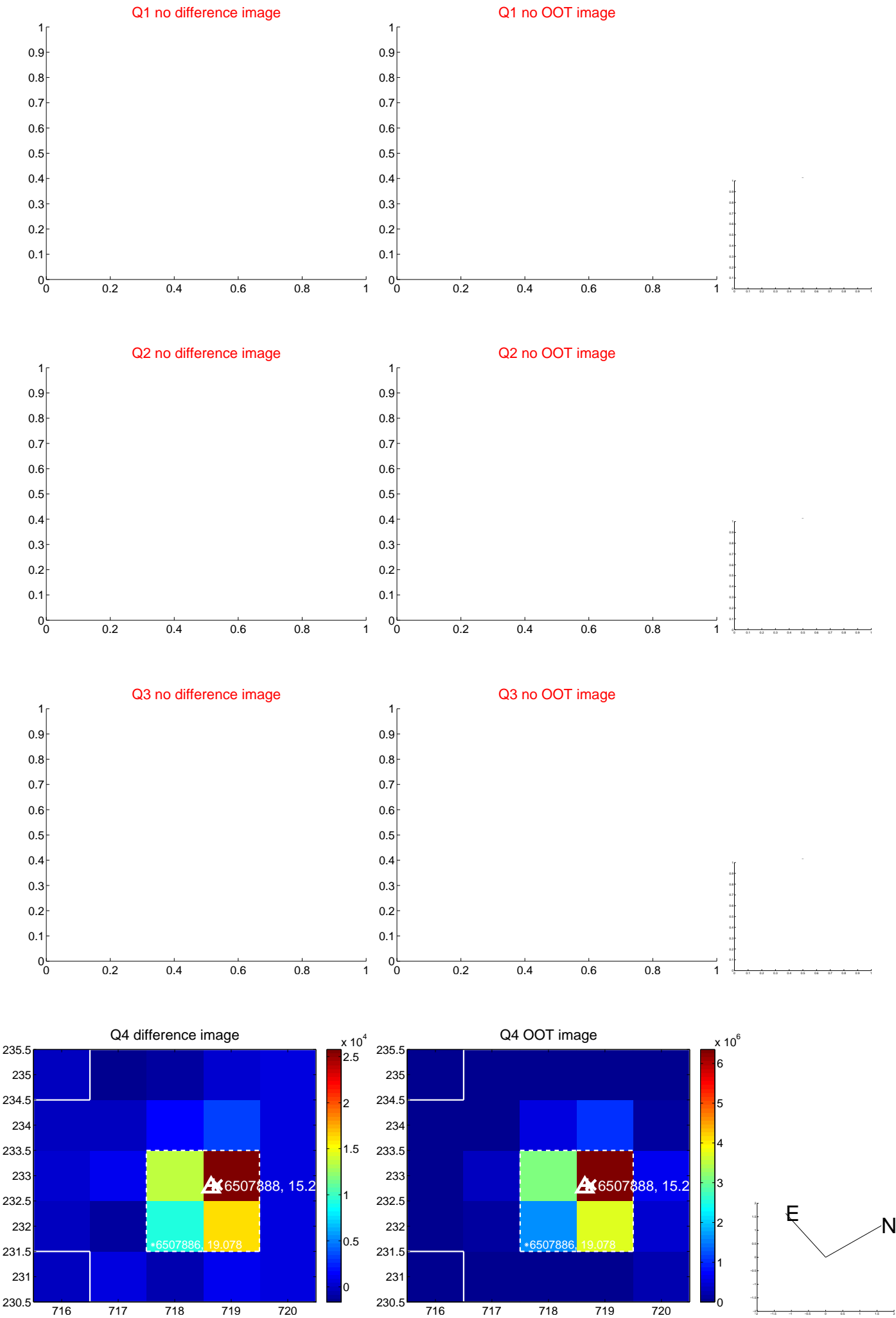


offset from photometric centroids



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

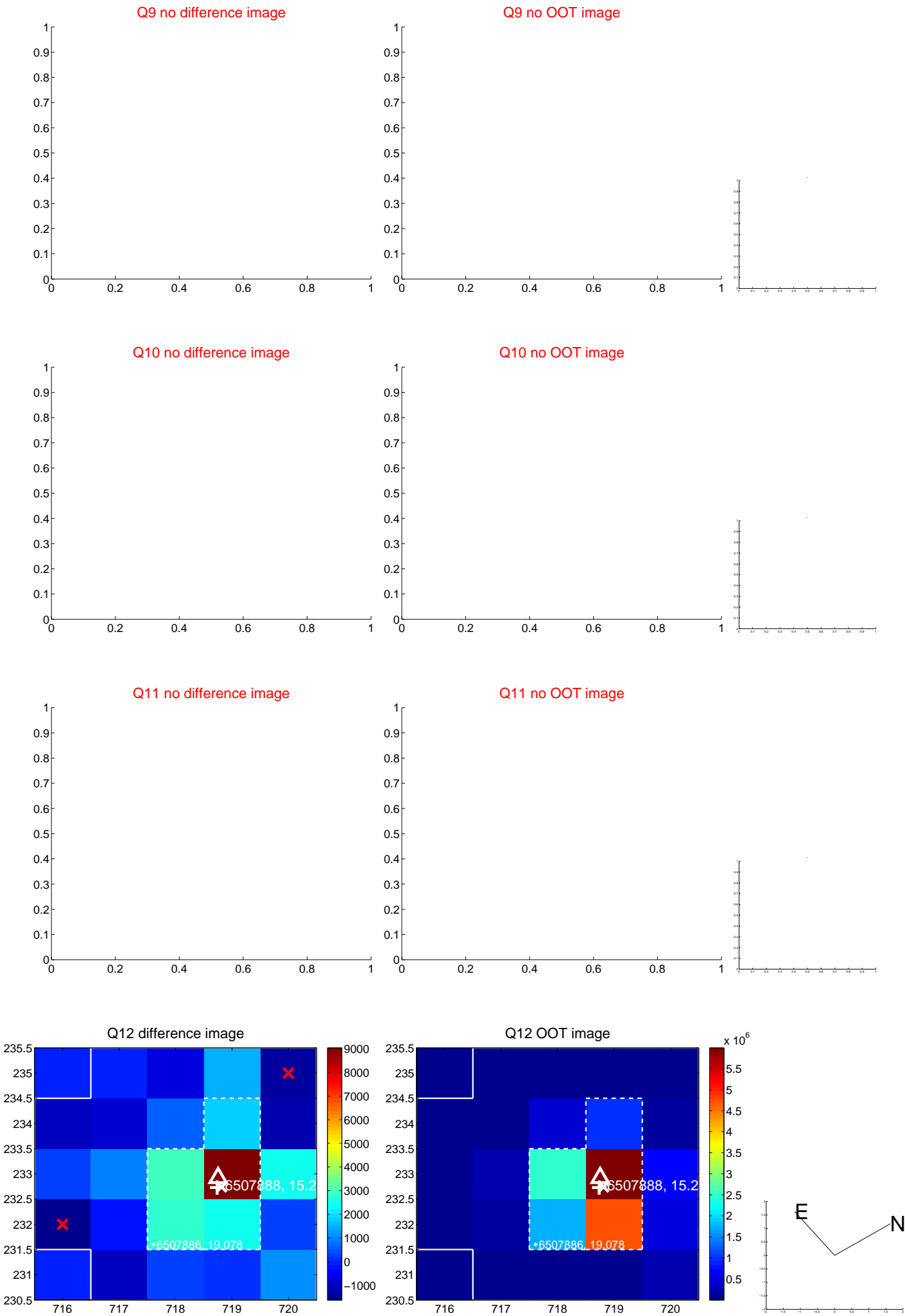
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

Q13 no difference image



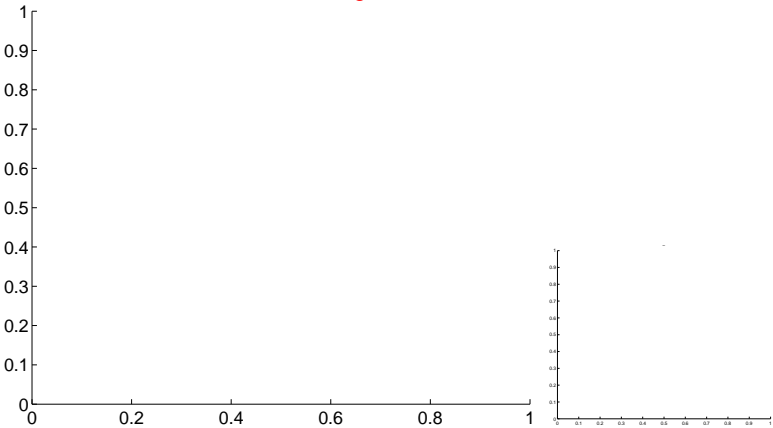
Q13 no OOT image



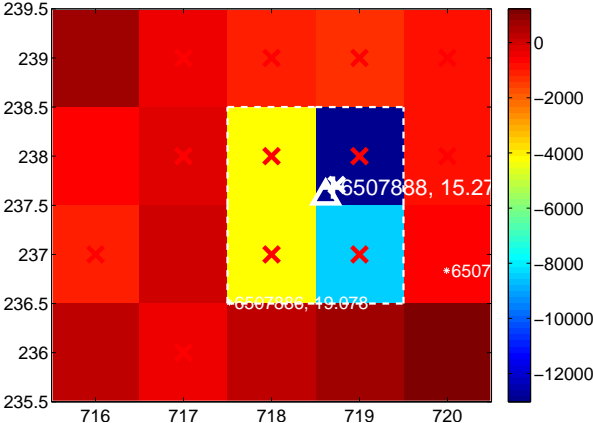
Q14 no difference image



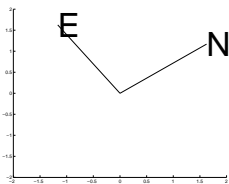
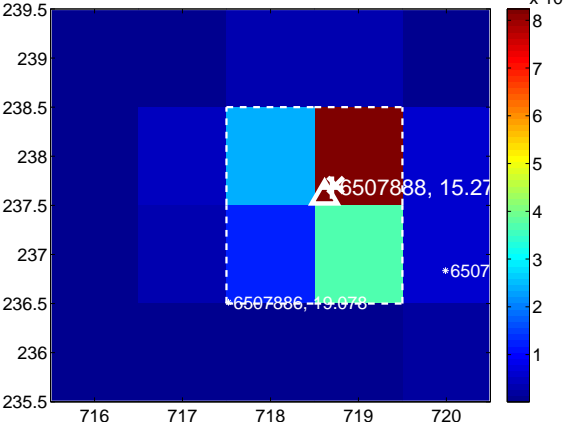
Q14 no OOT image



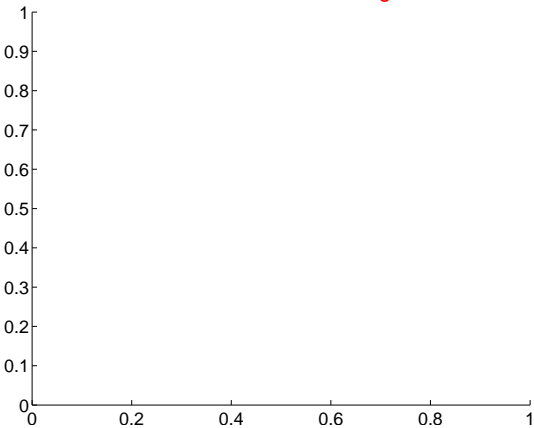
Q15 difference image. Poor Quality



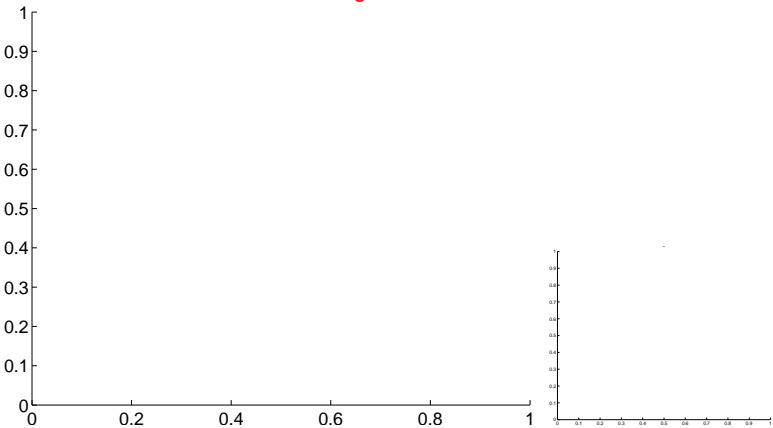
Q15 OOT image



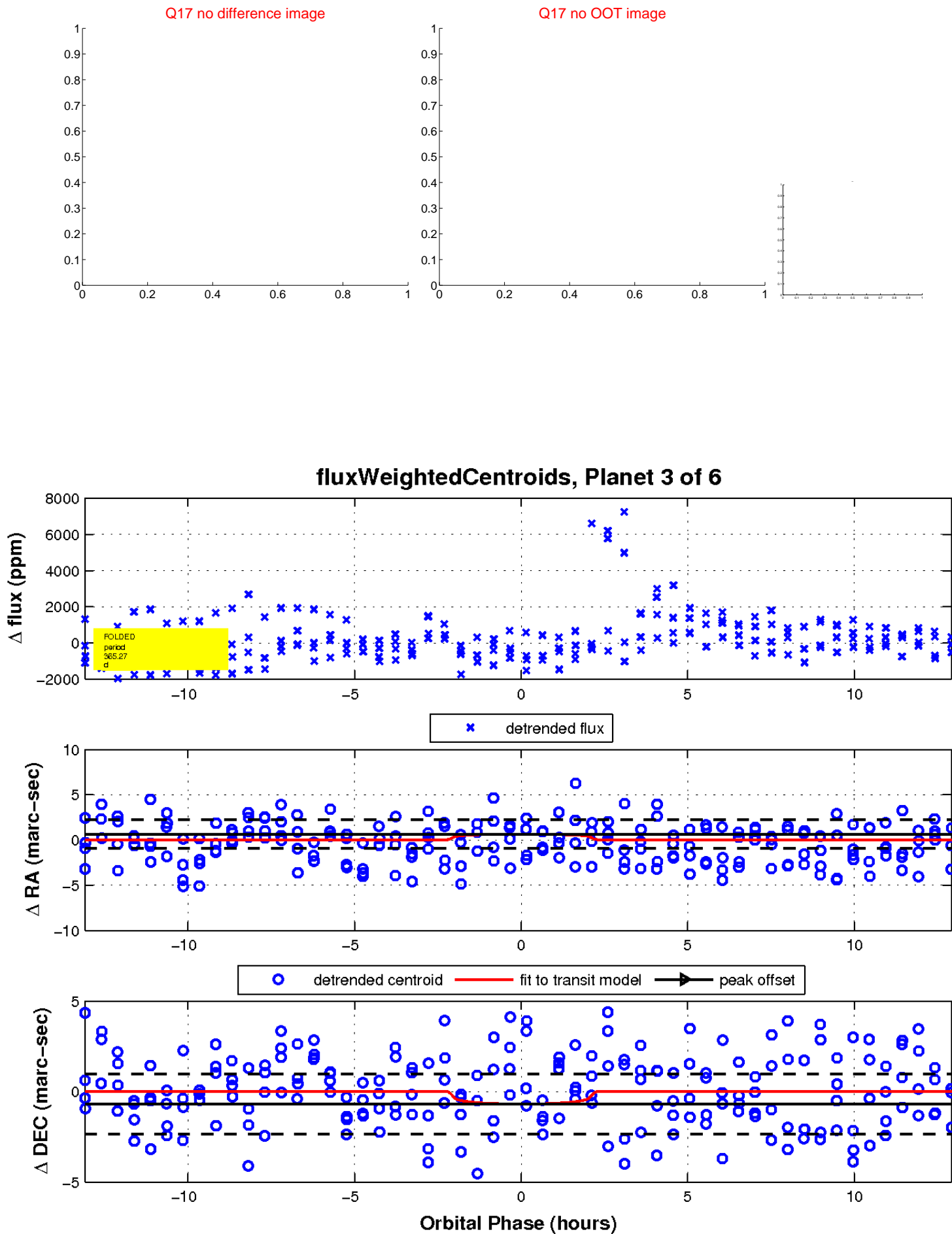
Q16 no difference image



Q16 no OOT image

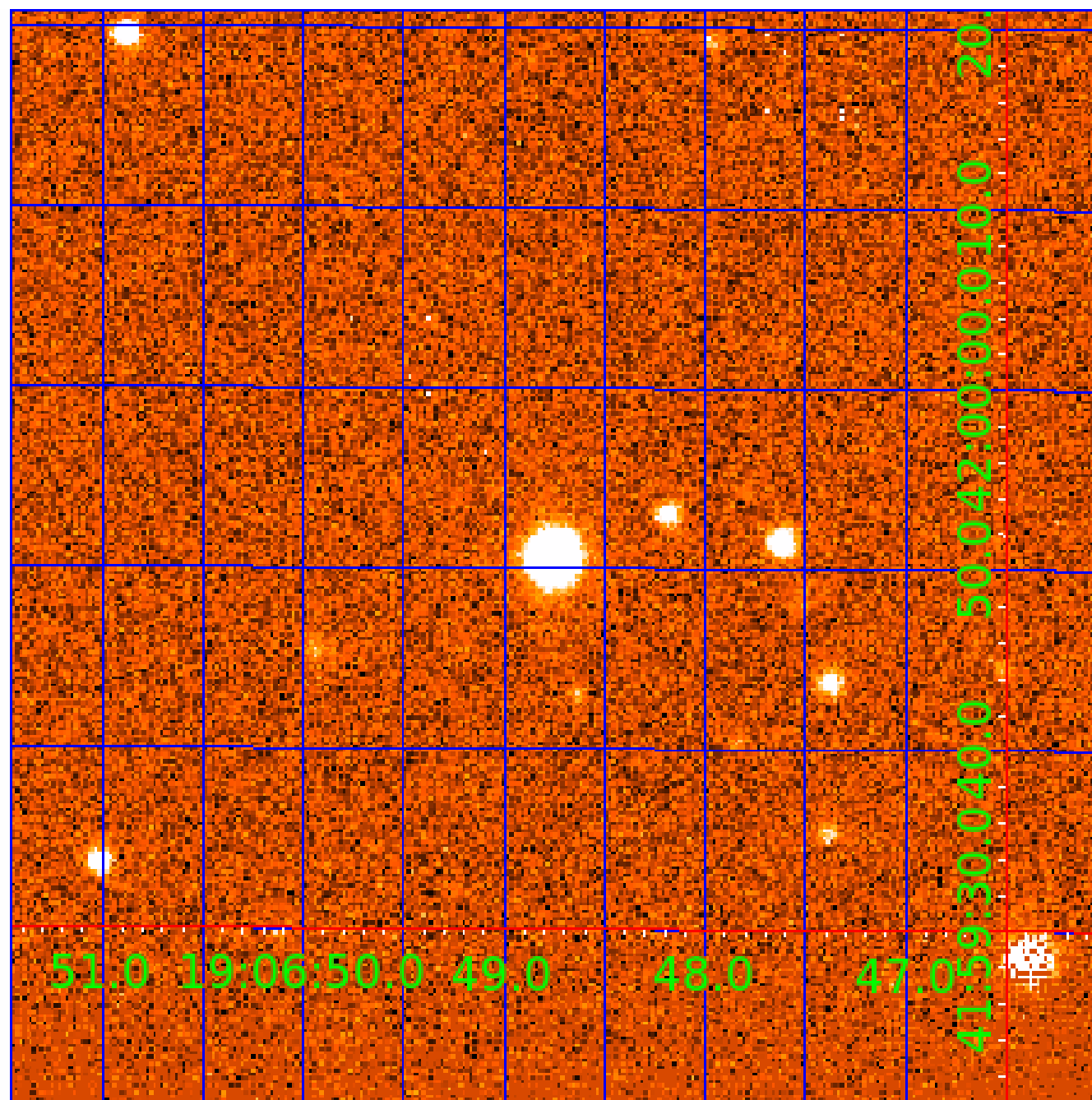


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 006507888

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})
006507888-01	OBS	No	333.718841	148.888920	1443.7	3.331	14.4	8.1	0.56	3949	2.22	0.11
006507888-02	OBS	No	610.794592	226.196180	1289.2	4.896	11.5	6.8	0.56	3949	2.02	0.05
006507888-03	OBS	No	365.271334	371.332735	1160.4	4.417	11.8	6.1	0.56	3949	1.94	0.10
006507888-04	OBS	No	468.990012	171.941716	445.7	5.075	9.4	2.6	0.56	3949	1.28	0.07
006507888-05	OBS	No	468.987084	173.215712	91.2	2.366	10.4	0.5	0.56	3949	0.63	0.07
006507888-06	OBS	No	468.991732	173.106538	624.1	12.184	9.5	2.2	0.56	3949	1.37	0.07

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
006507888-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
006507888-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—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.

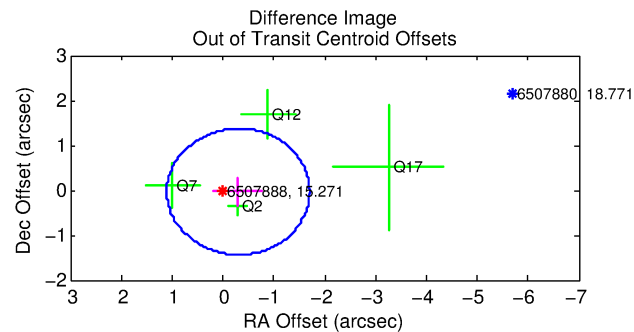
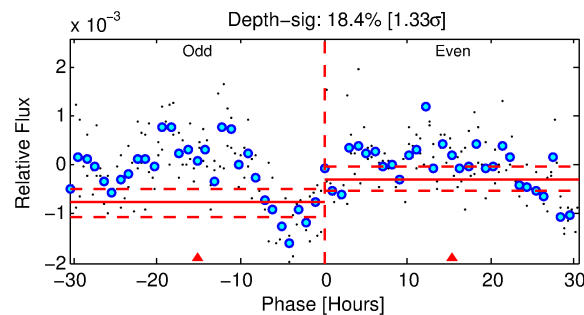
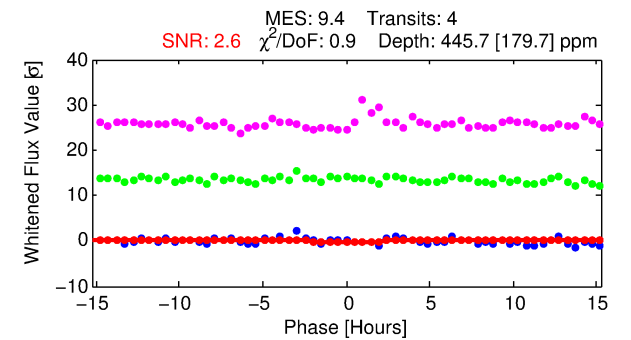
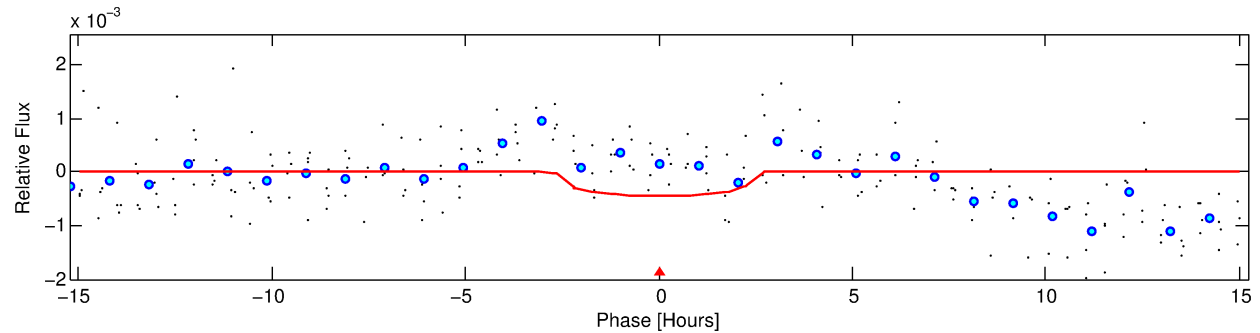
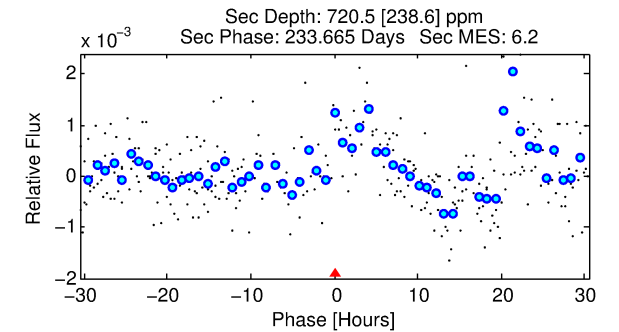
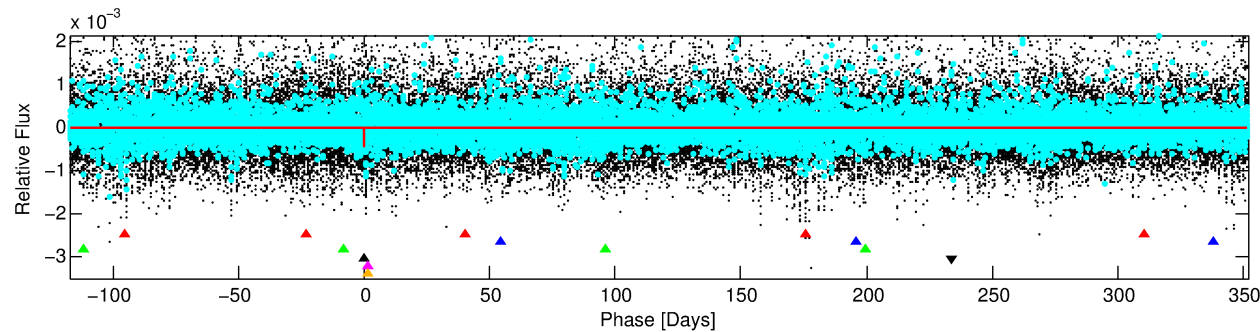
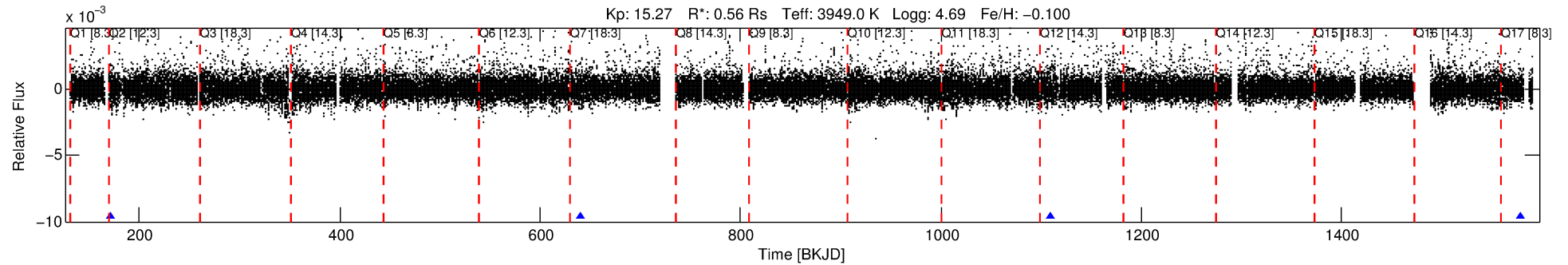
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-04

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 4 of 6 Period: 468.990 d



DV Fit Results:

Period = 468.99001 [0.01120] d
Epoch = 171.9417 [0.0223] BKJD
Rp/R* = 0.0210 [0.0272]
a/R* = 490.63 [2554.40]
b = 0.75 [3.07]
Seff = 0.07 [0.00]
Teq = 132 [2] K
Rp = 1.28 [1.66] Re
a = 0.9744 [0.0340] AU
Ag = 228990.57 [597347.90] [0.38 σ]
Teffp = 4463 [2910] K [1.49 σ]

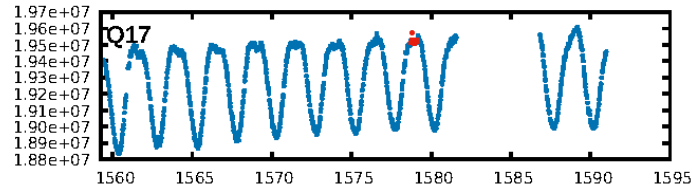
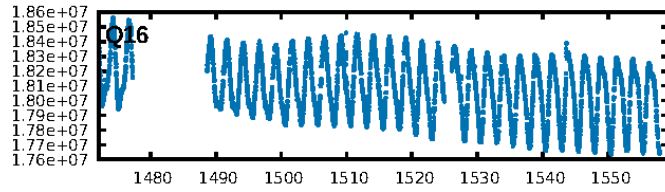
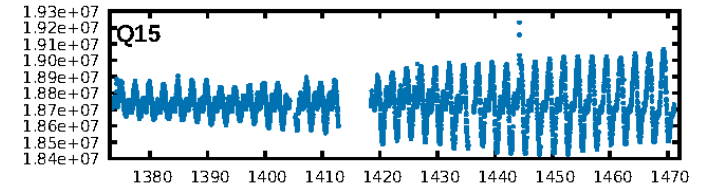
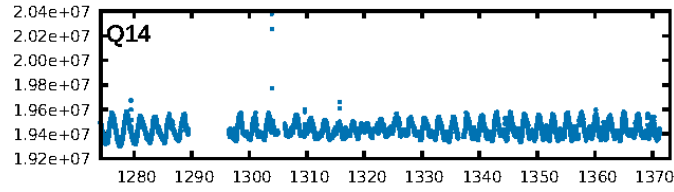
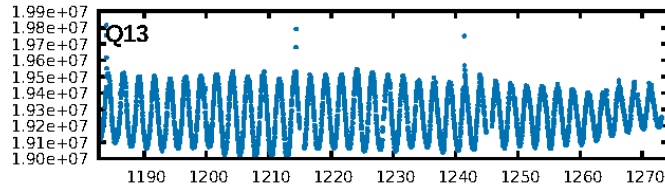
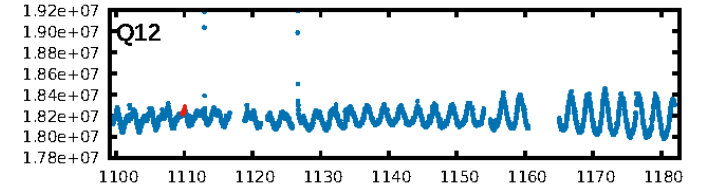
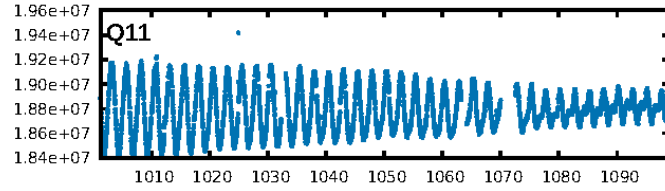
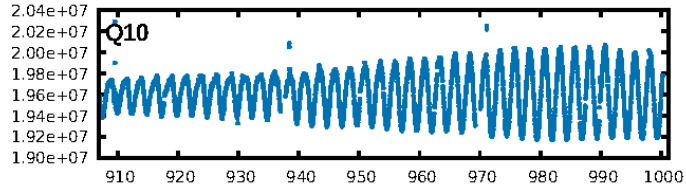
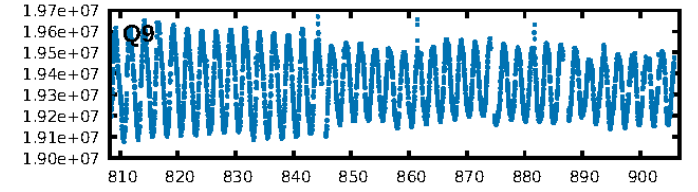
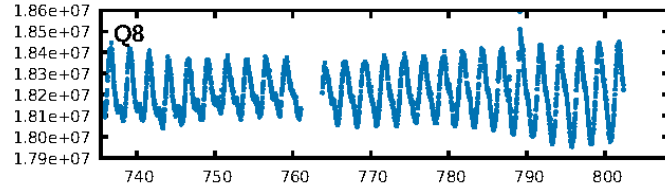
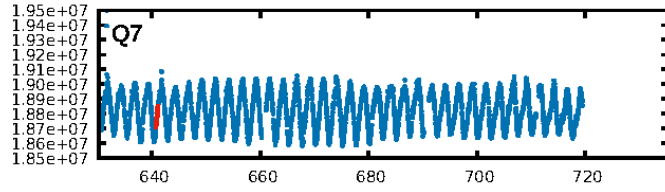
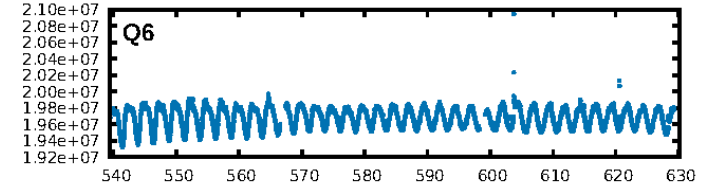
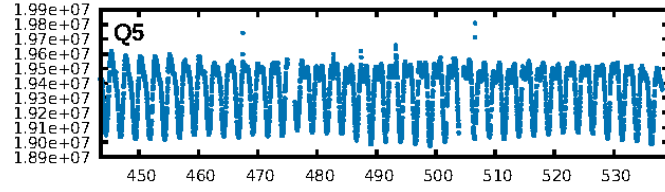
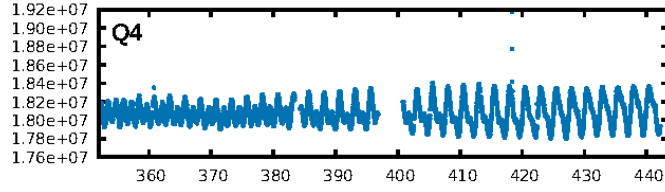
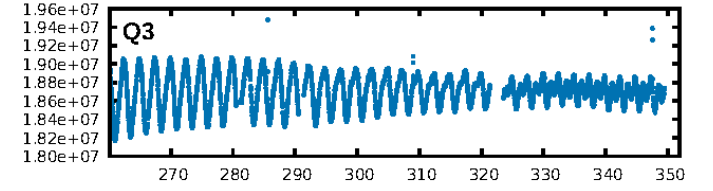
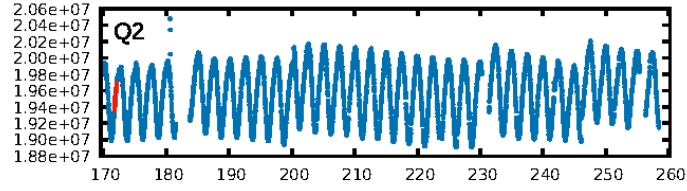
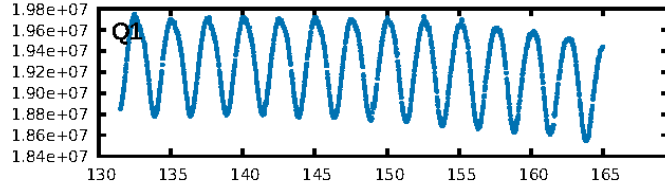
DV Diagnostic Results:

ShortPeriod-sig: 1.0% [0.01 σ]
LongPeriod-sig: 0.2% [0.00 σ]
ModelChiSquare2-sig: 63.9%
ModelChiSquareGof-sig: 97.8%
Bootstrap-pfa: 5.58e-09
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.7711
Centroid-sig: 10.9%
Centroid-so: 3.283 arcsec [1.28 σ]
OotOffset-rm: 0.305 arcsec [0.65 σ]
OotOffset-st: 1/1/1/1 [4]
KicOffset-rm: 0.323 arcsec [0.67 σ]
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DiffImageOverlap-fno: 1.00 [4/4]

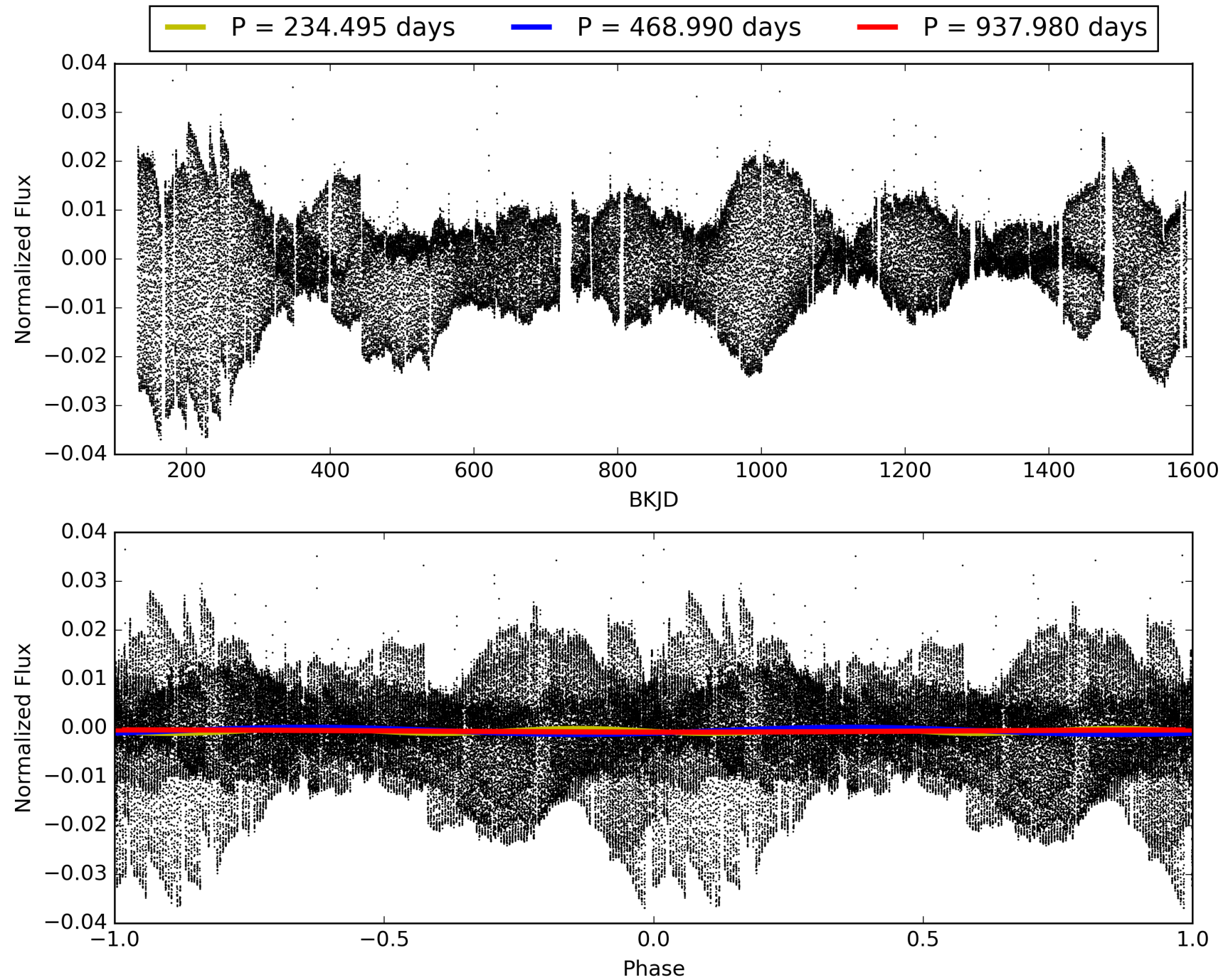
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:02:34 Z

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

TCE 006507888-04, PDC Light Curves

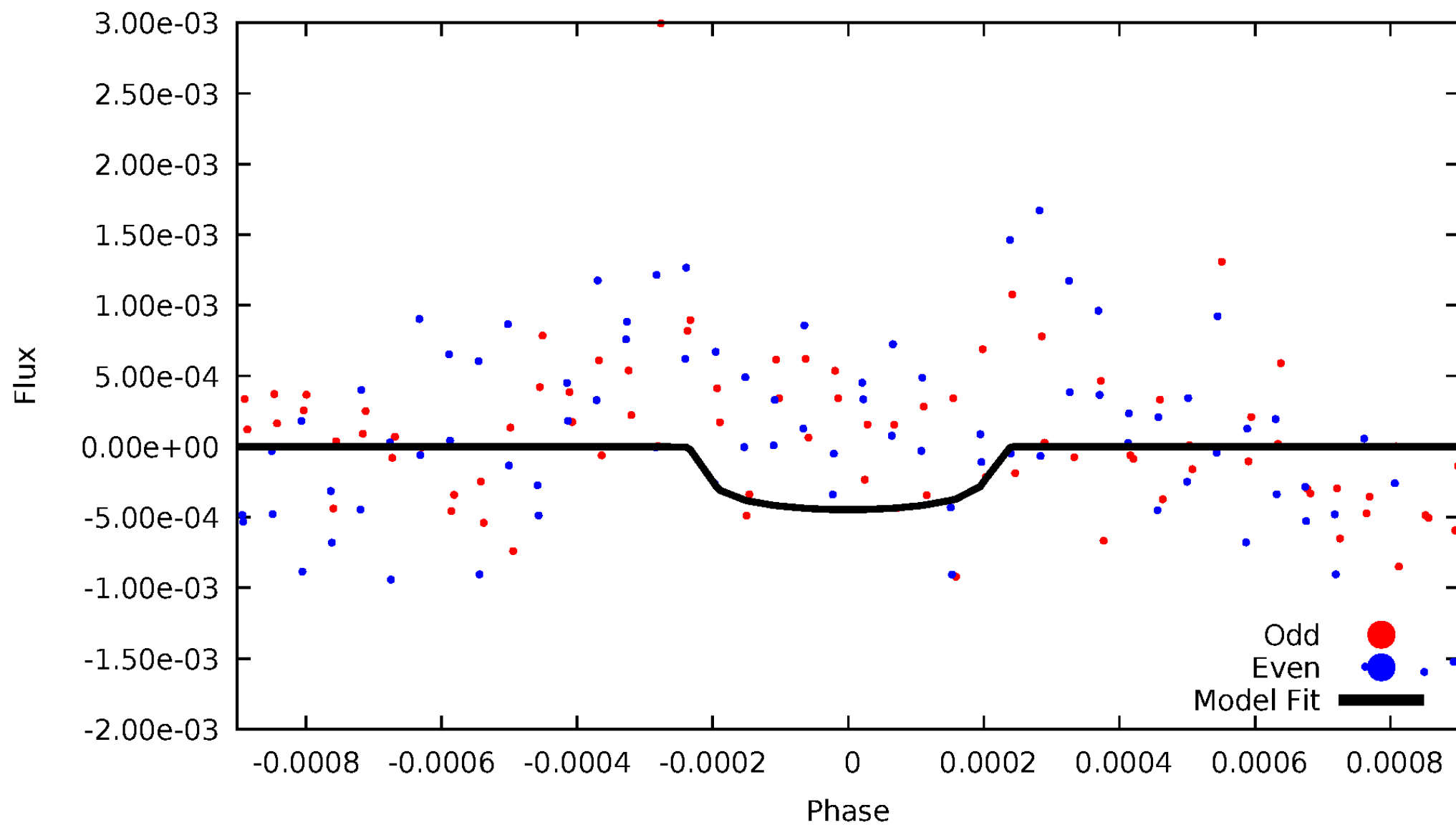


TCE 006507888-04



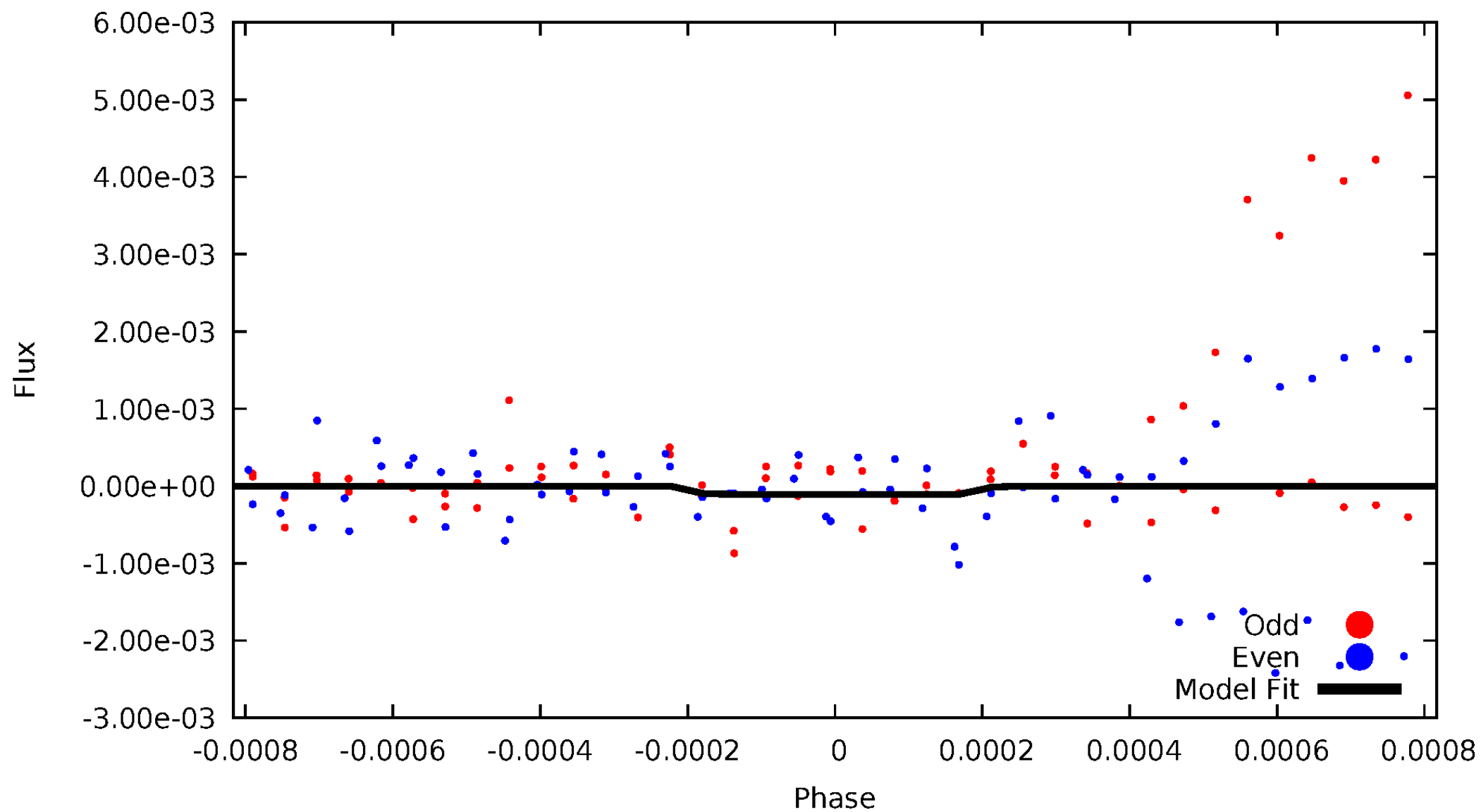
DV Odd/Even

TCE 006507888-04



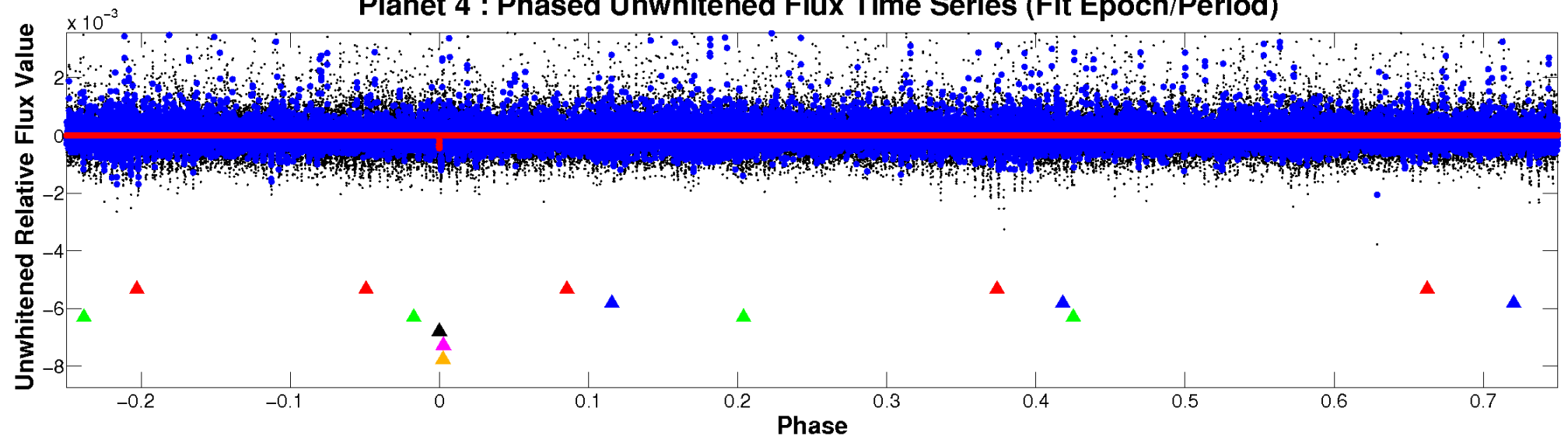
ALT Odd/Even

TCE 006507888-04

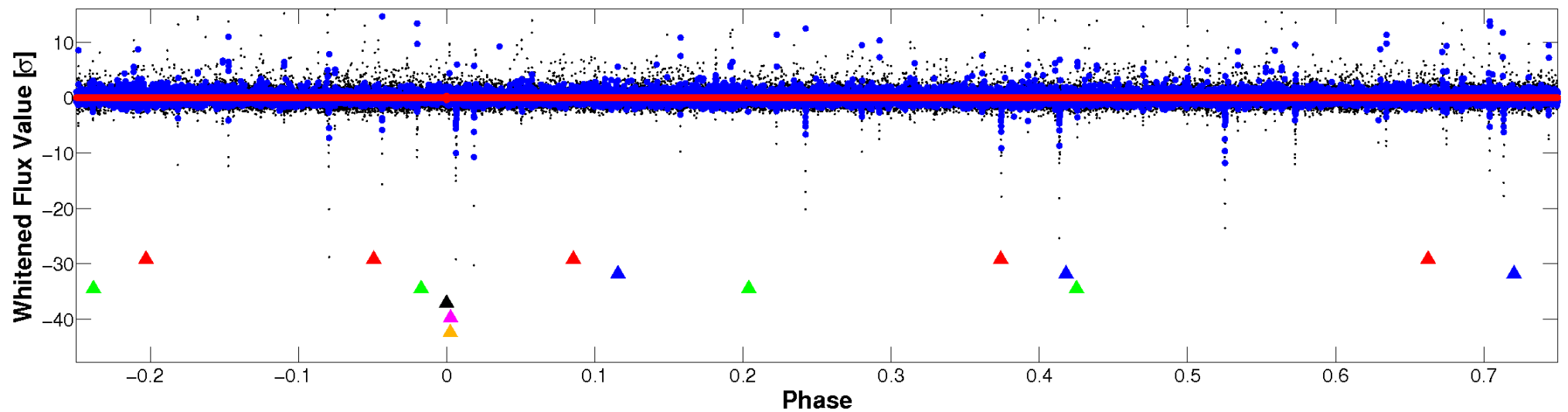


Non-Whitened Vs. Whitened Light Curve

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

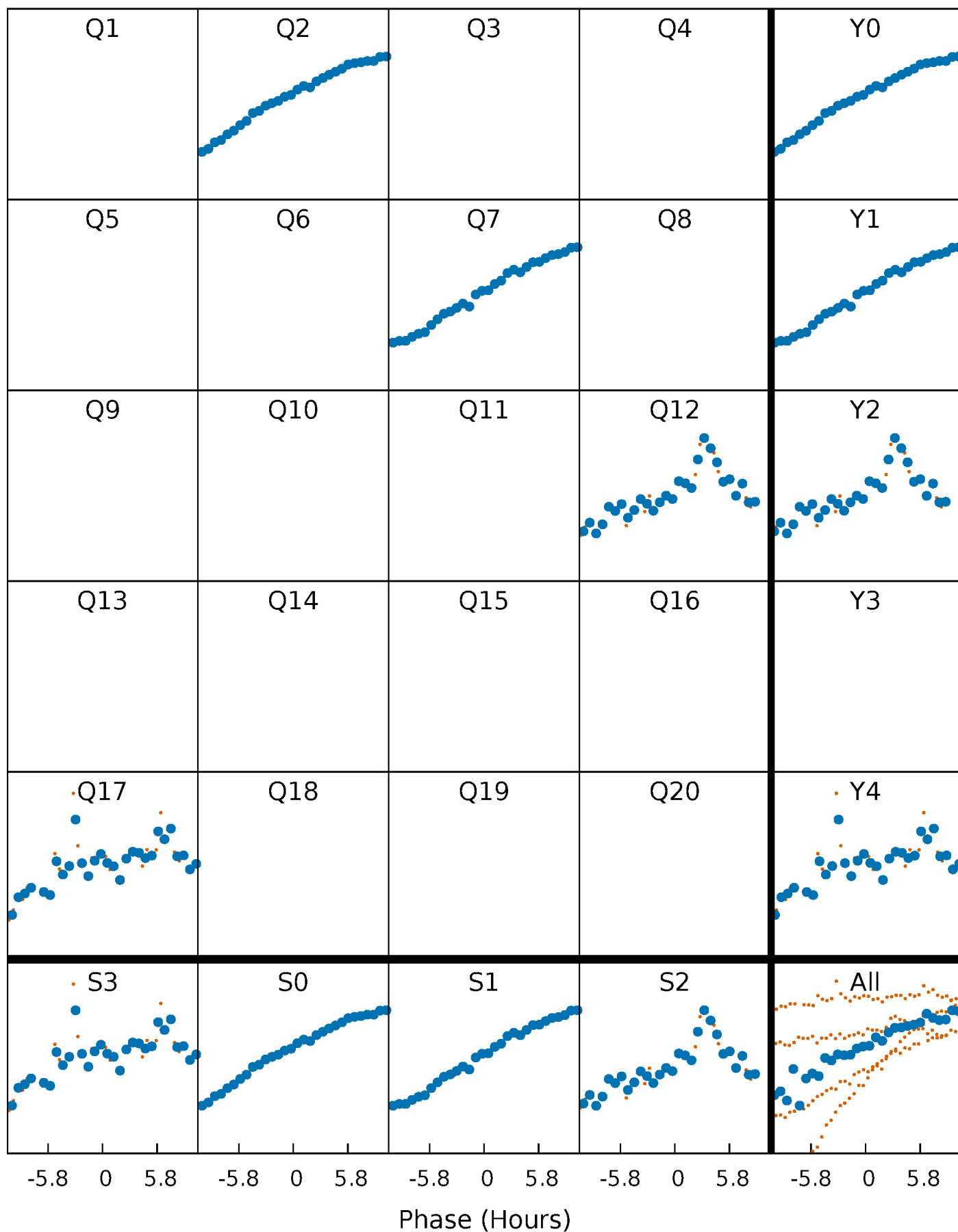


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



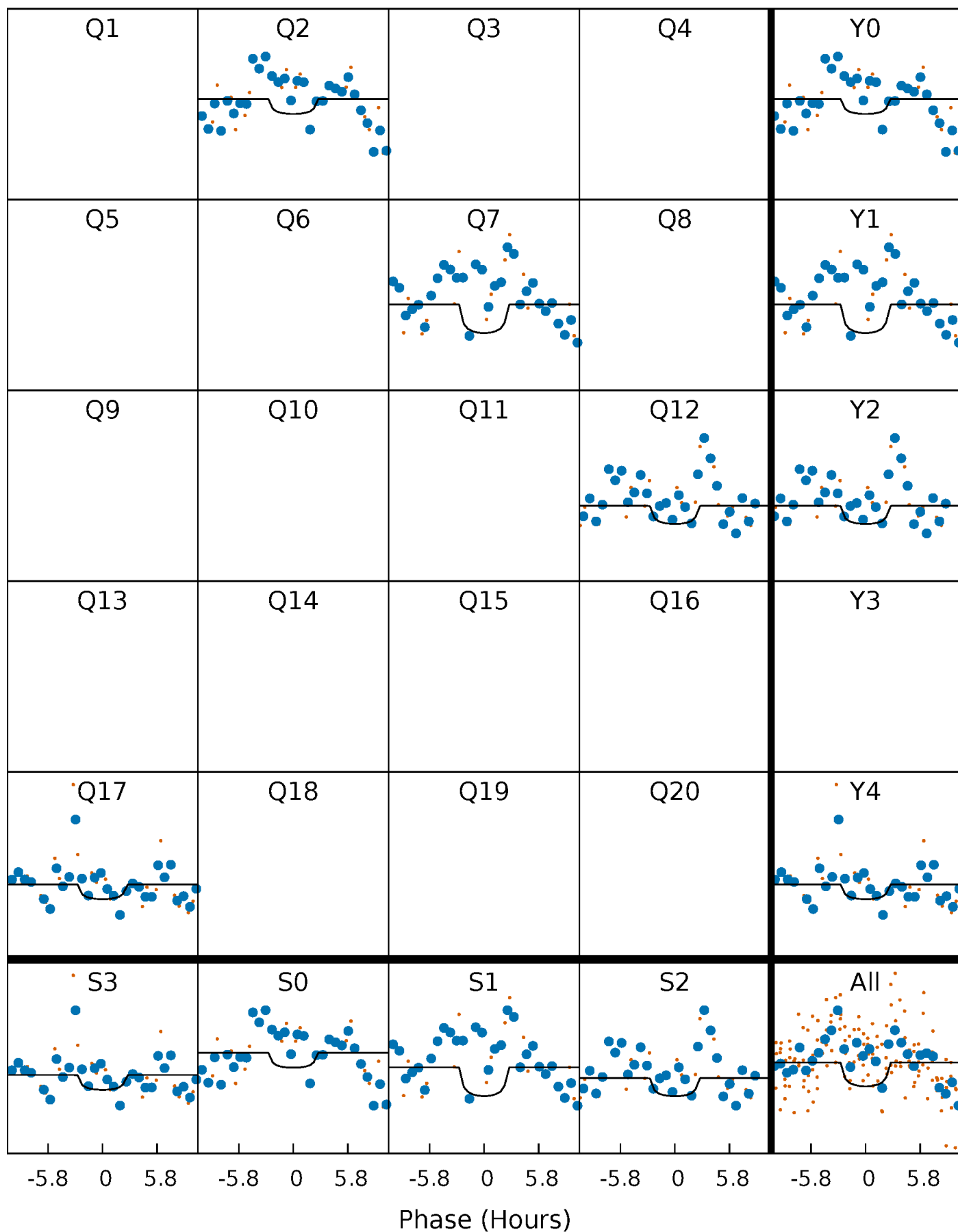
PDC Quarter-Phased Transit Curves

TCE 006507888-04 P=468.990012 Days $T_0=171.941716$ (BKJD)



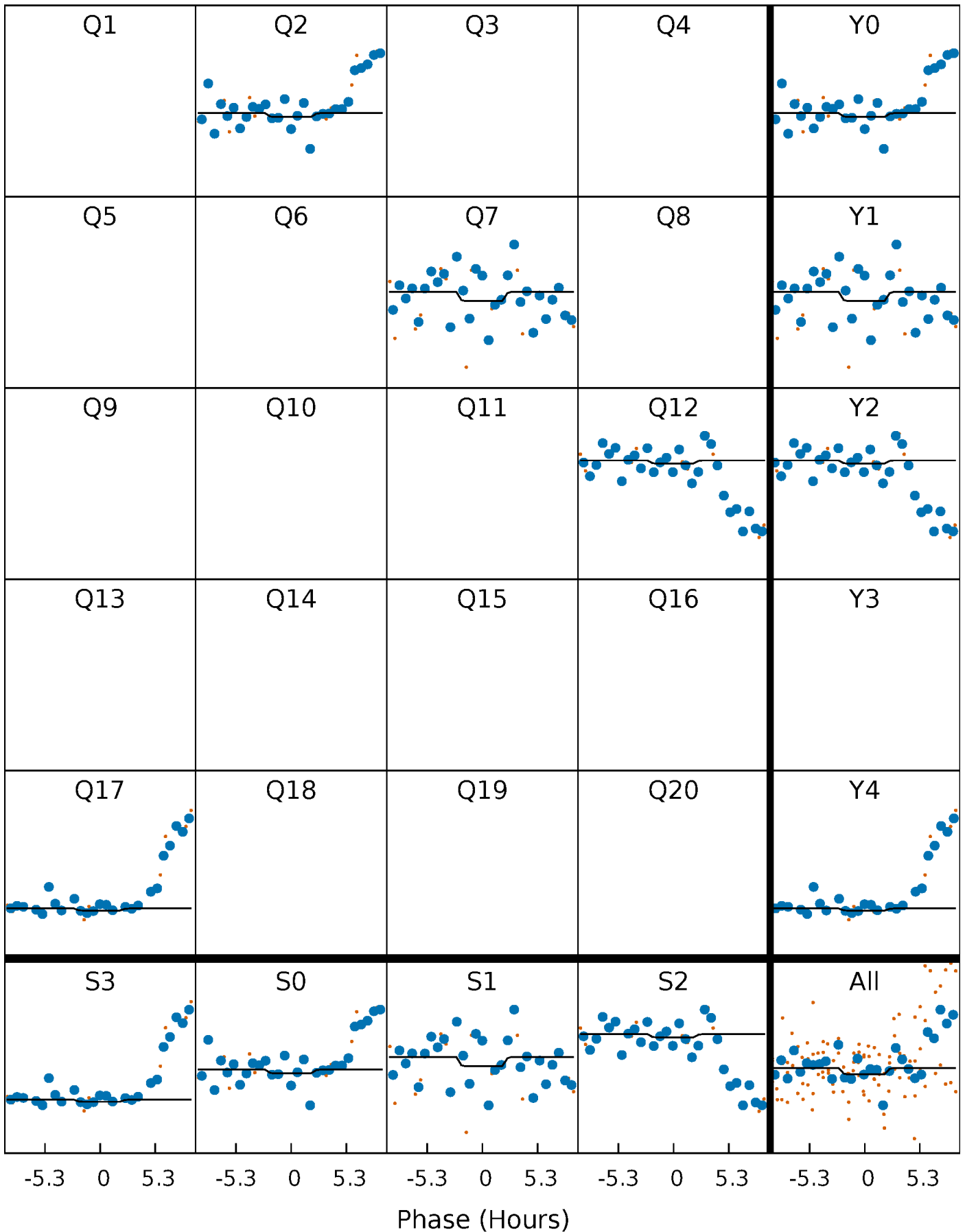
DV Quarter-Phased Transit Curves

TCE 006507888-04 $P=468.990012$ Days $T_0=171.941716$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

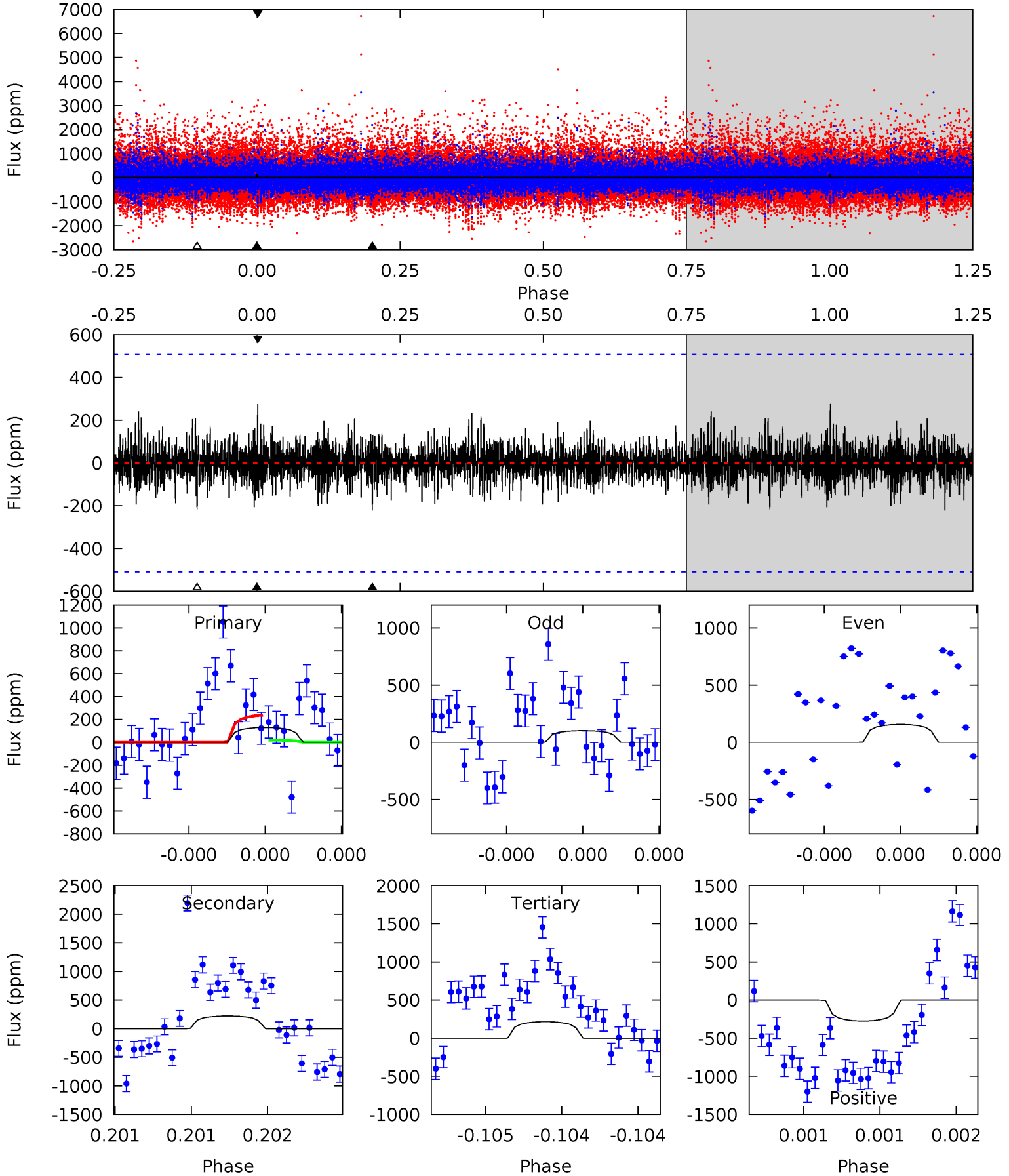
TCE 006507888-04 P=468.991069 Days $T_0=171.934444$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-04, P = 468.990012 Days, E = 171.941716 Days

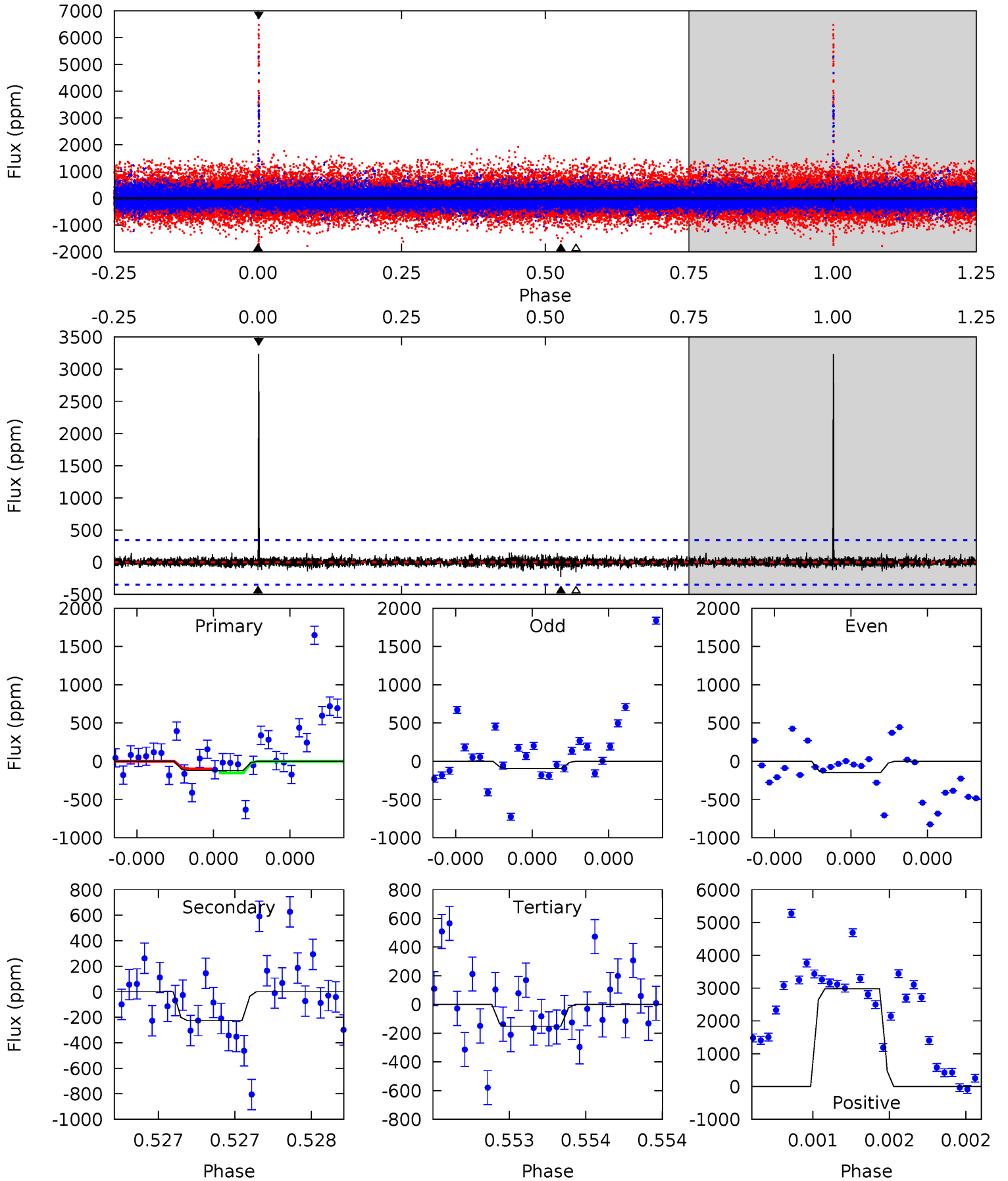
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.42	2.44	2.38	3.02	5.58	3.49	0.65	-0.95	-1.60	0.06	-0.58	0.26	0.88	0.55	1.21



Alt Model-Shift Uniqueness Test

006507888-04, P = 468.991069 Days, E = 171.934444 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.97	3.65	2.45	48.1	5.60	3.52	1.44	-0.48	-46.1	1.21	-44.4	0.43	1.03	0.93	0.43



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-04 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-222 ± 91	$1.68^{+1.48}_{-1.11}$	184^{+3}_{-3}	3213^{+1458}_{-560}	$40286^{+306148}_{-30386}$
Alt.	-226 ± 62	$1.42^{+1.28}_{-0.92}$	184^{+3}_{-3}	3411^{+1567}_{-602}	$58061^{+435494}_{-42865}$

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 $A_{obs} \gg 1.0$

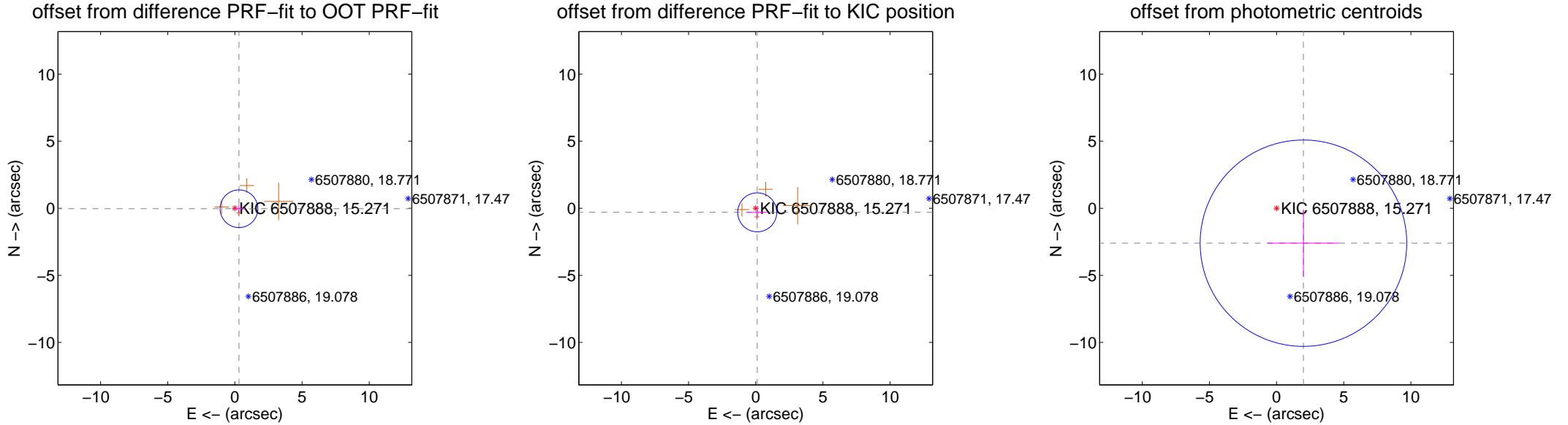
DV Centroid Data

Supplemental centroid analysis for 006507888-04. Kepler magnitude: 15.27. Transit SNR 2.63

There are 0 quarters with good PRF difference image offsets

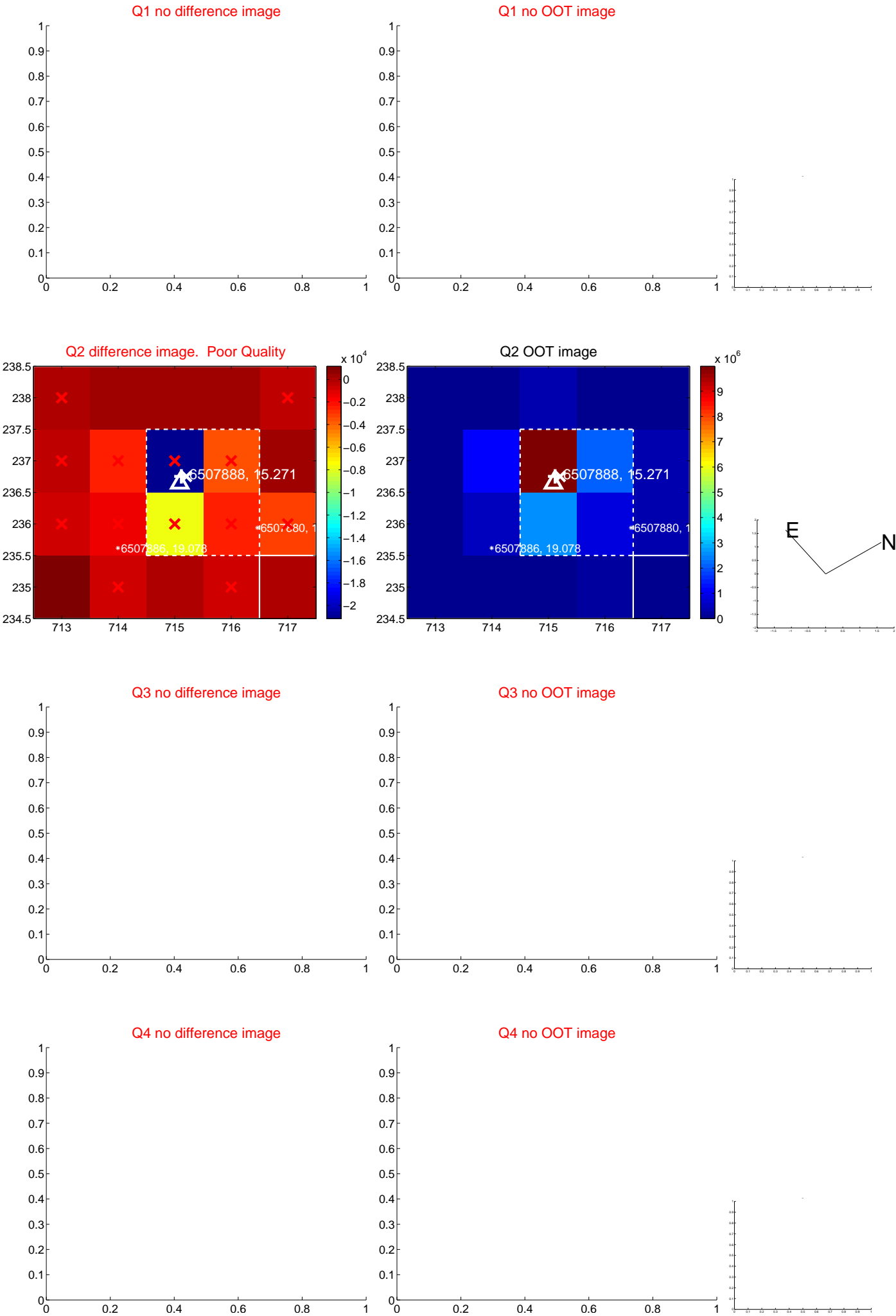
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.305 ± 0.468	0.65	-0.302 ± 0.473	-0.036 ± 0.305
PRF-fit source offset from KIC position	0.323 ± 0.484	0.67	-0.110 ± 0.755	-0.304 ± 0.455
photometric centroid source offset	3.28 ± 2.56	1.28	-2.00 ± 2.65	-2.60 ± 2.51



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

Q5 no difference image



Q5 no OOT image



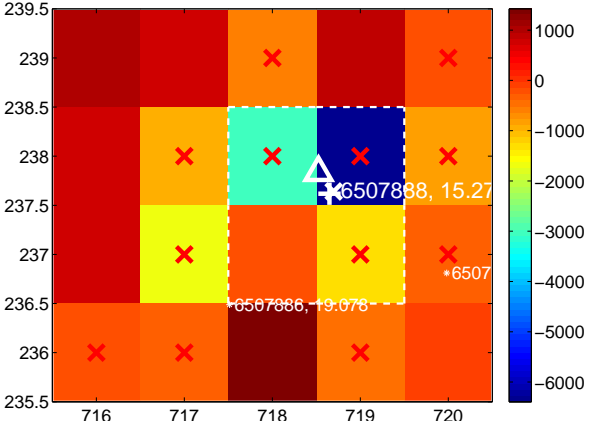
Q6 no difference image



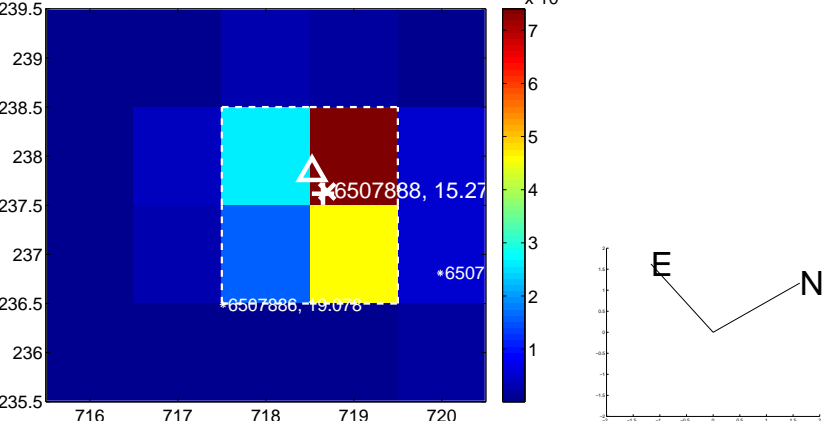
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



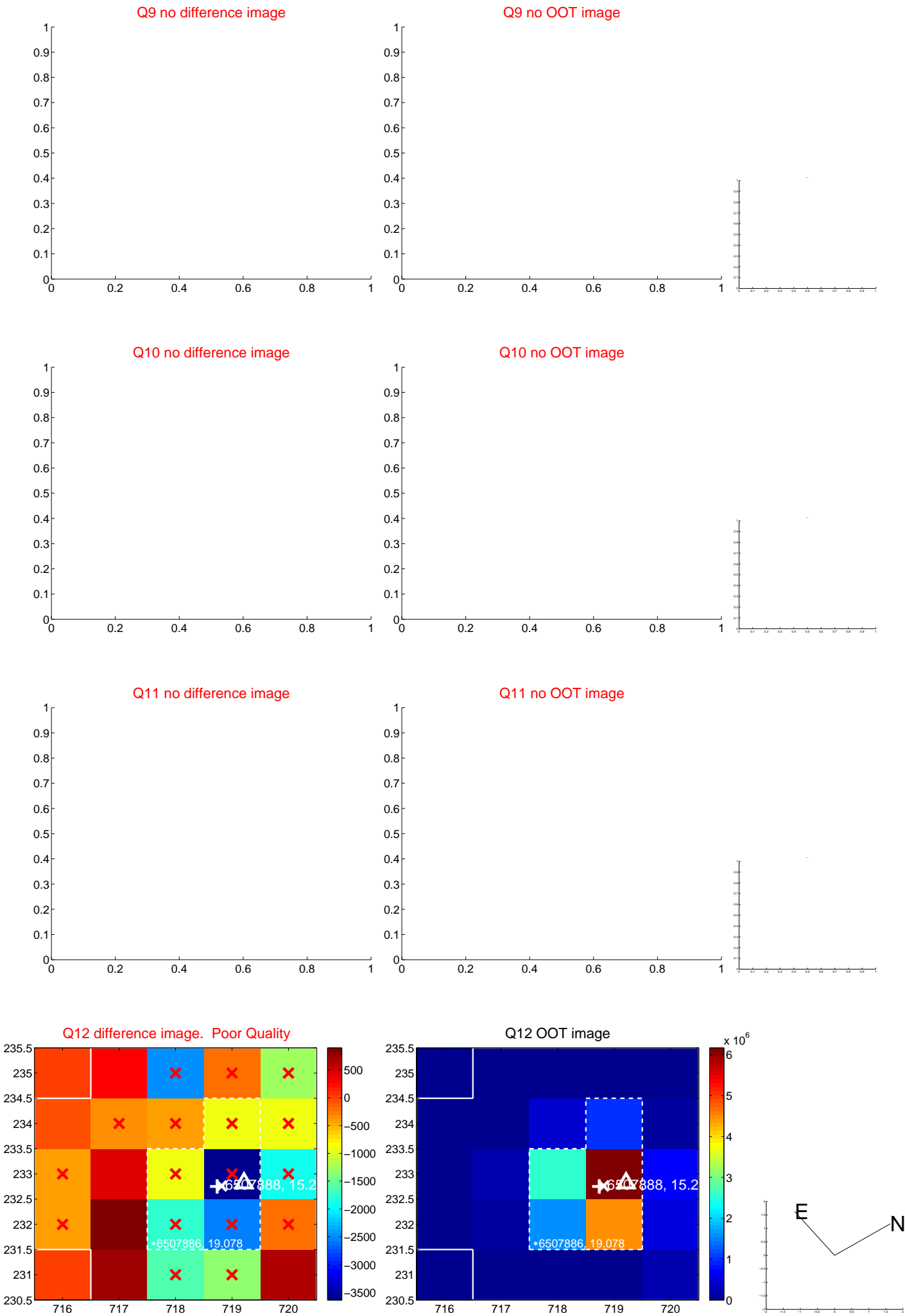
Q8 no difference image



Q8 no OOT image



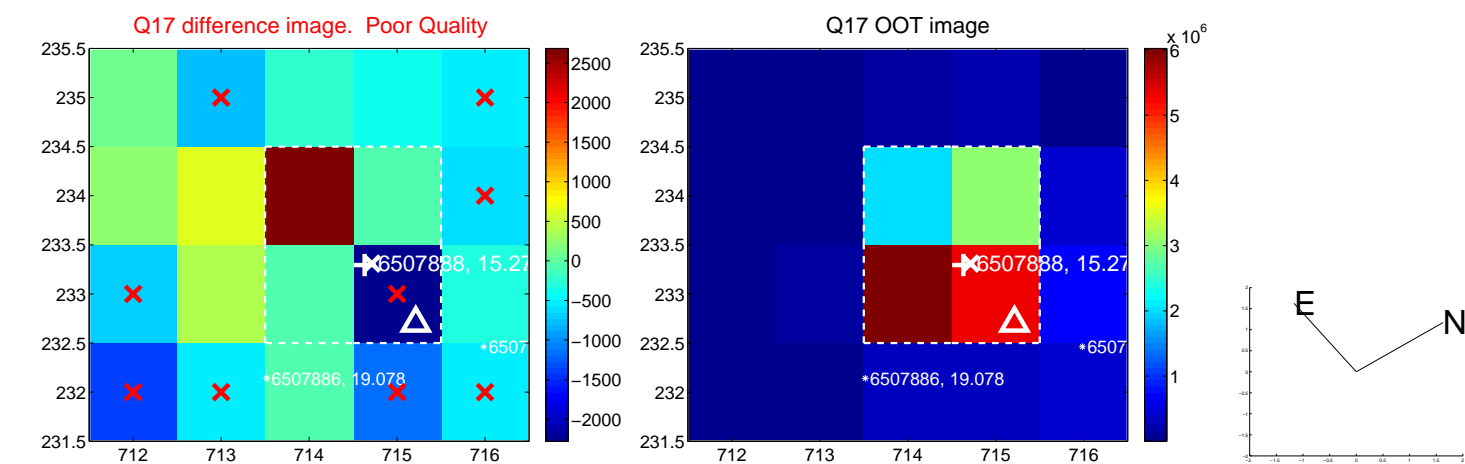
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



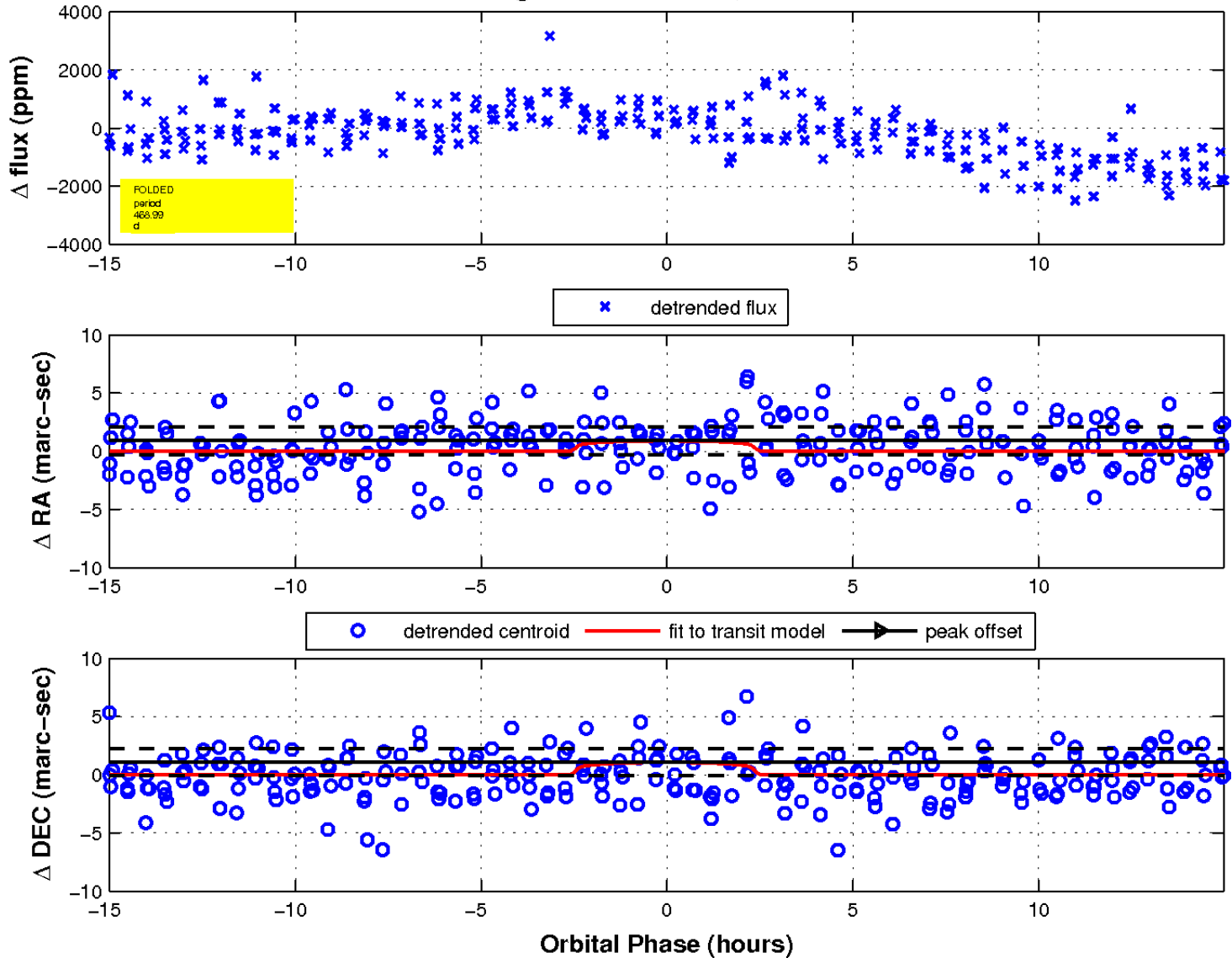
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

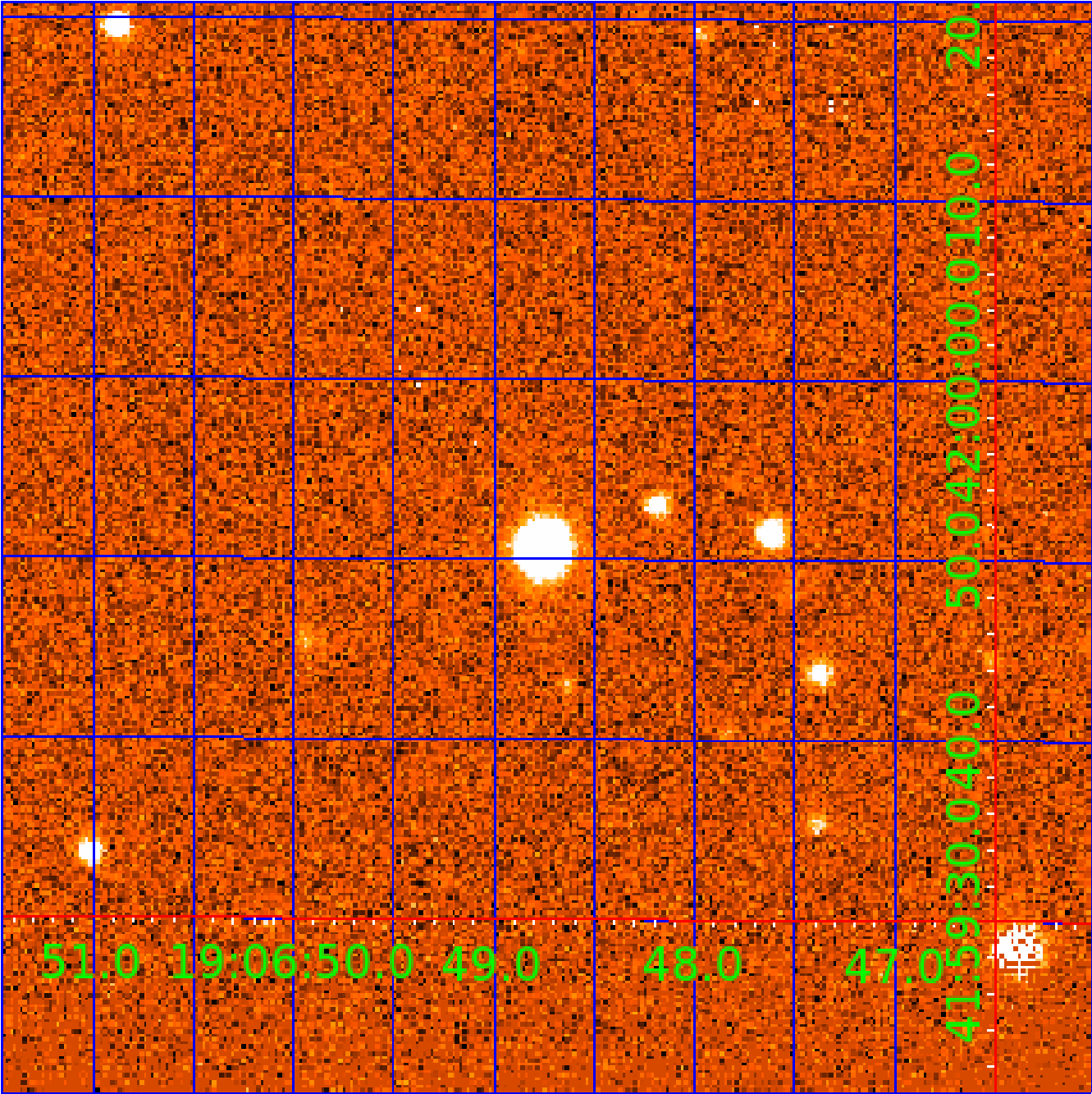


fluxWeightedCentroids, Planet 4 of 6



UKIRT Image

Declination



KIC 006507888

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})
006507888-01	OBS	No	333.718841	148.888920	1443.7	3.331	14.4	8.1	0.56	3949	2.22	0.11
006507888-02	OBS	No	610.794592	226.196180	1289.2	4.896	11.5	6.8	0.56	3949	2.02	0.05
006507888-03	OBS	No	365.271334	371.332735	1160.4	4.417	11.8	6.1	0.56	3949	1.94	0.10
006507888-04	OBS	No	468.990012	171.941716	445.7	5.075	9.4	2.6	0.56	3949	1.28	0.07
006507888-05	OBS	No	468.987084	173.215712	91.2	2.366	10.4	0.5	0.56	3949	0.63	0.07
006507888-06	OBS	No	468.991732	173.106538	624.1	12.184	9.5	2.2	0.56	3949	1.37	0.07

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
006507888-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
006507888-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—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.

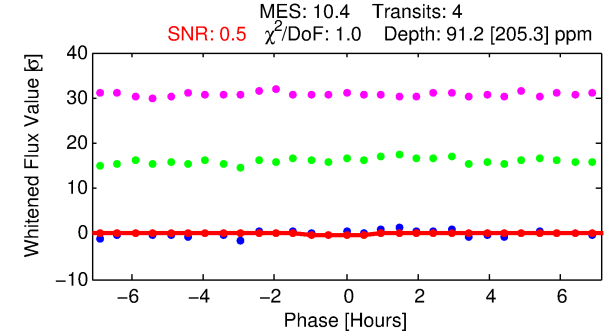
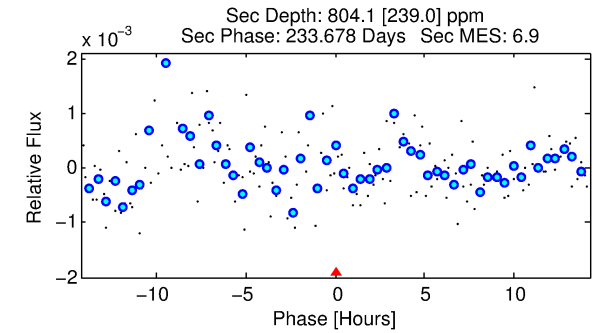
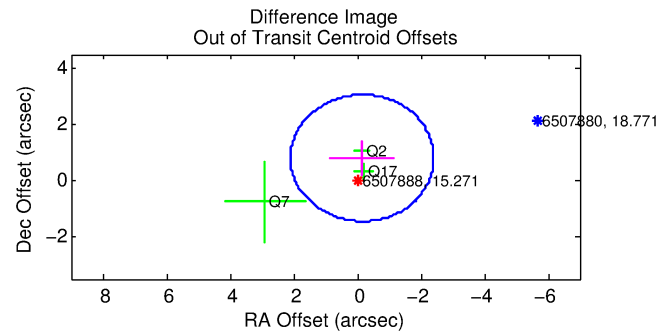
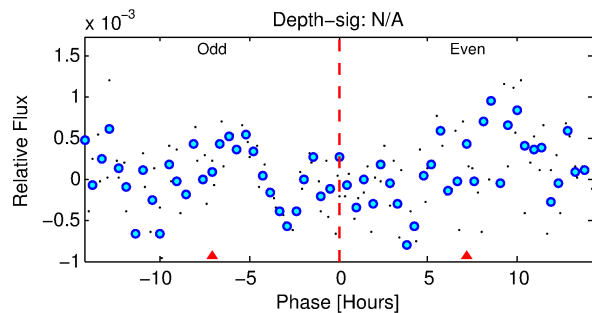
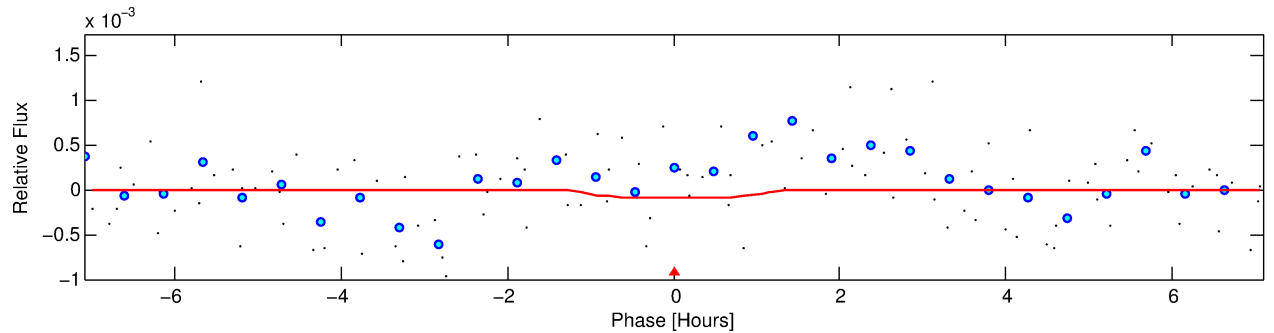
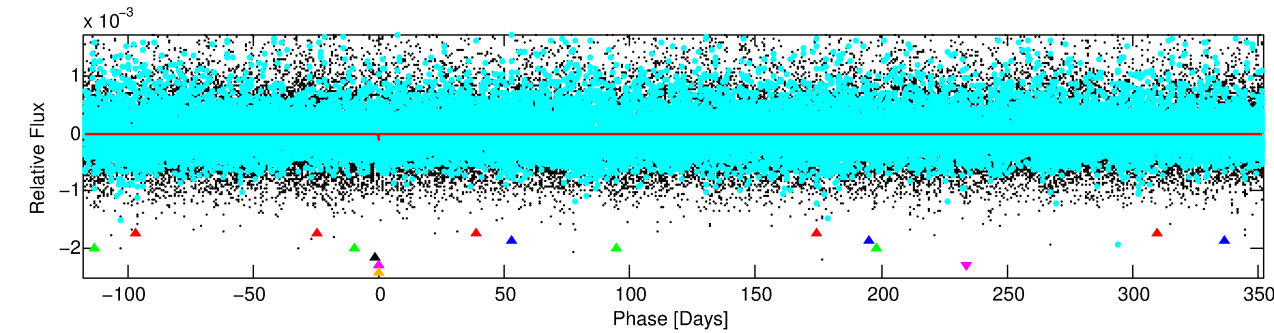
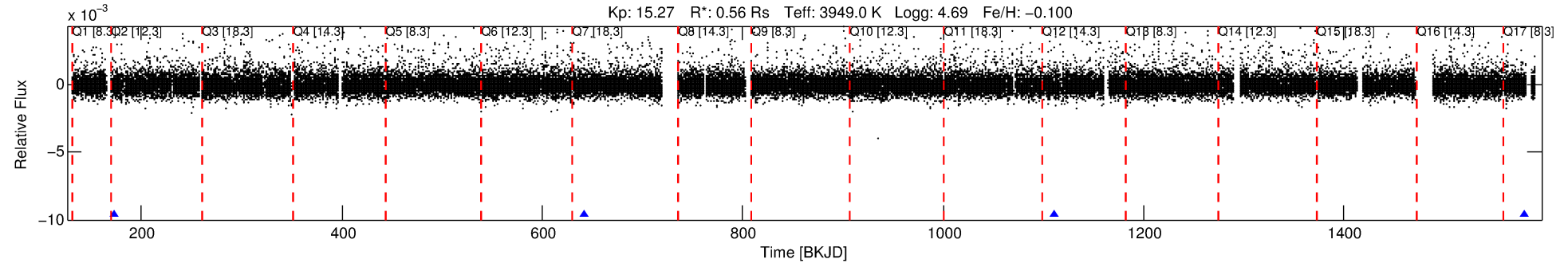
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-05

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 5 of 6 Period: 468.987 d



DV Fit Results:

Period = 468.98708 [0.04528] d
Epoch = 173.2157 [0.0898] BKJD
Rp/R* = 0.0103 [0.1711]
a/R* = 737.51 [53899.91]
b = 0.89 [18.20]
Seff = 0.07 [0.00]
Teq = 132 [2] K
Rp = 0.63 [10.44] Re
a = 0.9744 [0.0340] AU
Ag = 1058195.01 [35056469.15] [0.03]
Teffp = 6543 [54193] K [0.12]

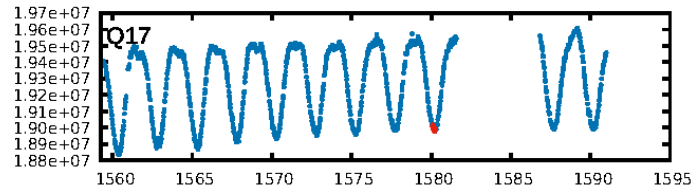
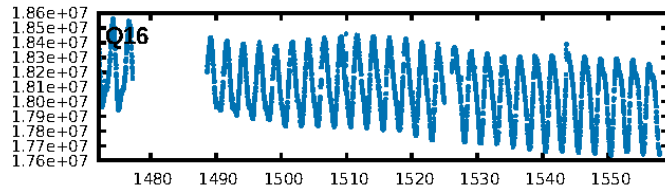
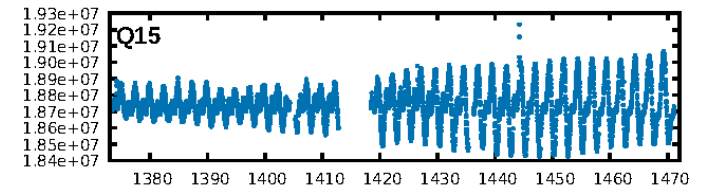
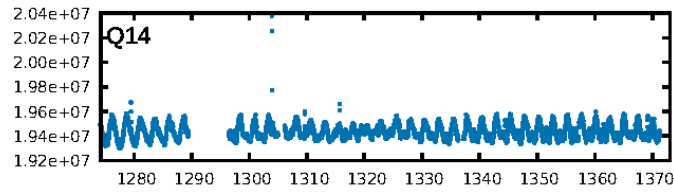
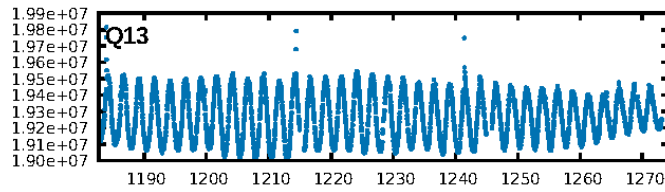
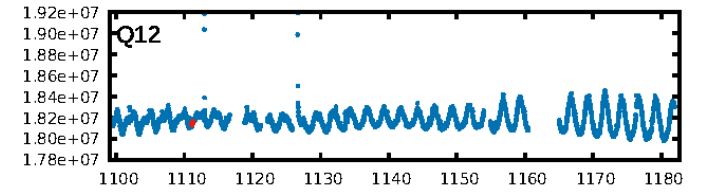
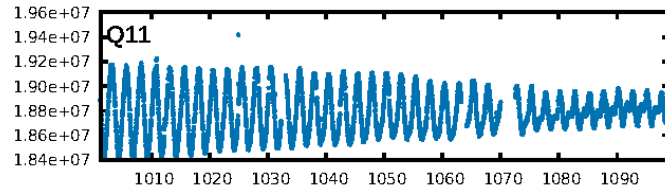
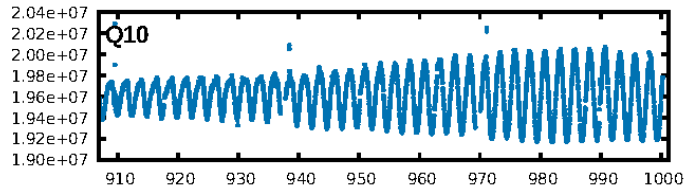
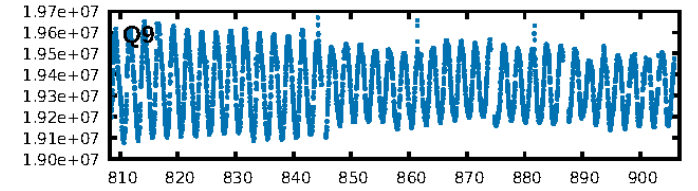
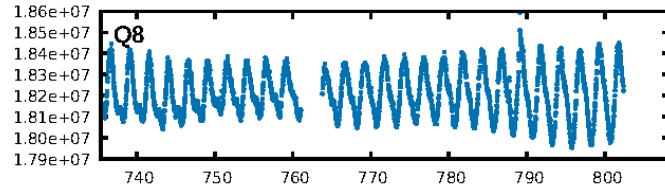
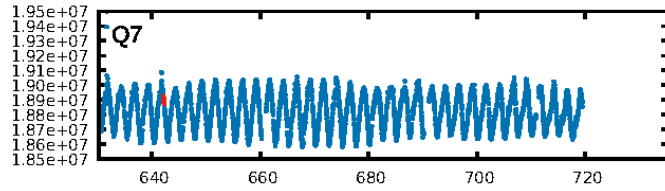
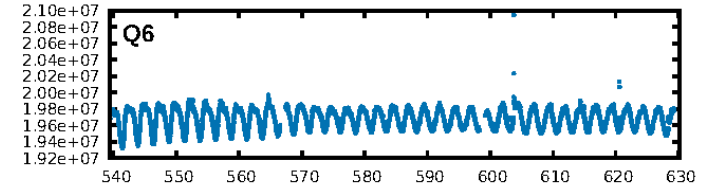
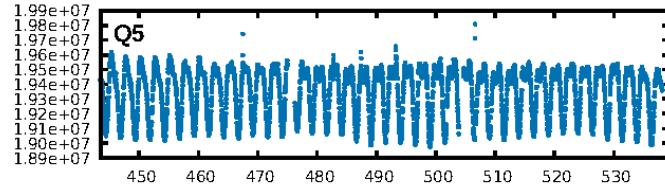
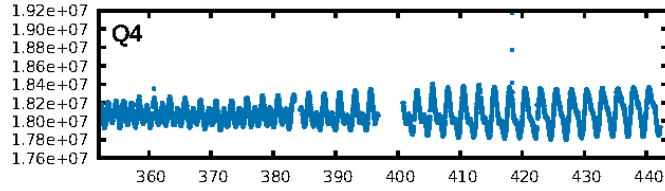
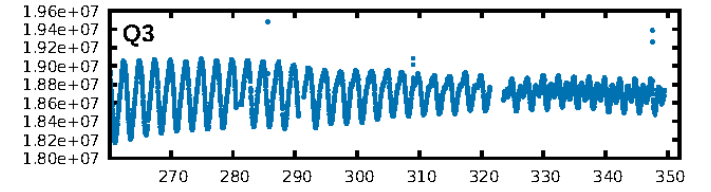
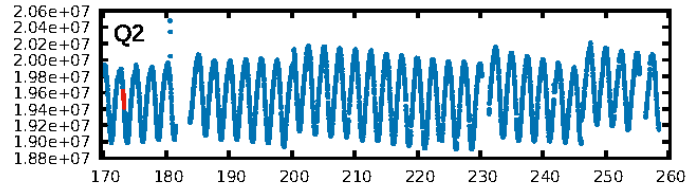
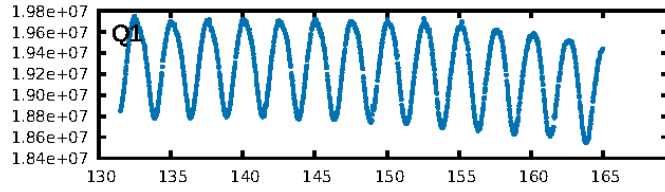
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [496.78σ]
LongPeriod-sig: 1.0% [0.01σ]
ModelChiSquare2-sig: 23.1%
ModelChiSquareGof-sig: 94.2%
Bootstrap-pfa: 5.33e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.7243
Centroid-sig: 64.2%
Centroid-so: 9.151 arcsec [0.48σ]
OptOffset-rm: 0.821 arcsec [1.09σ]
KicOffset-rm: 0.513 arcsec [1.04σ]
OptOffset-st: 1/1/0/1 [3]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 0.00 [0/4]

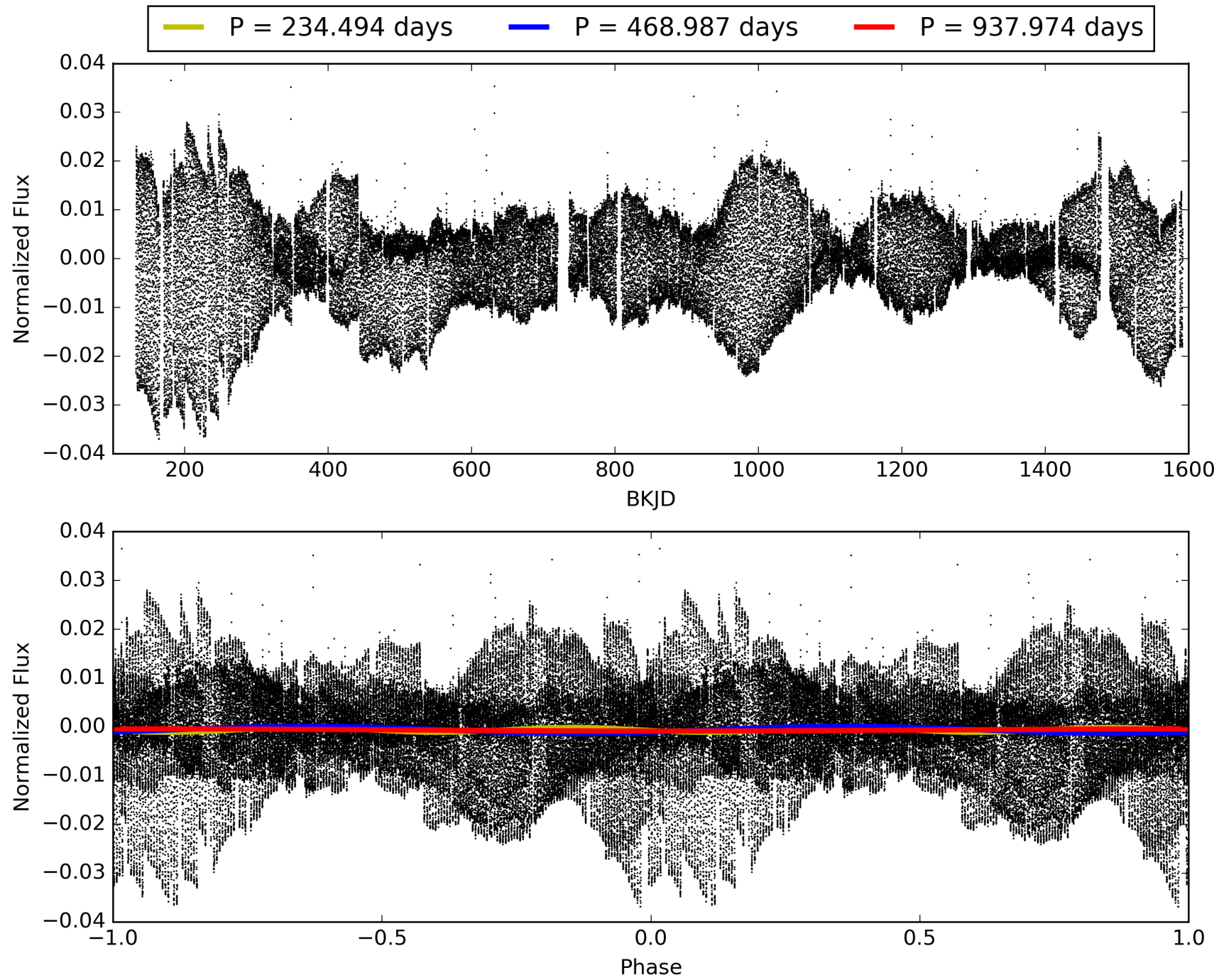
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:02:59 Z

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

TCE 006507888-05, PDC Light Curves

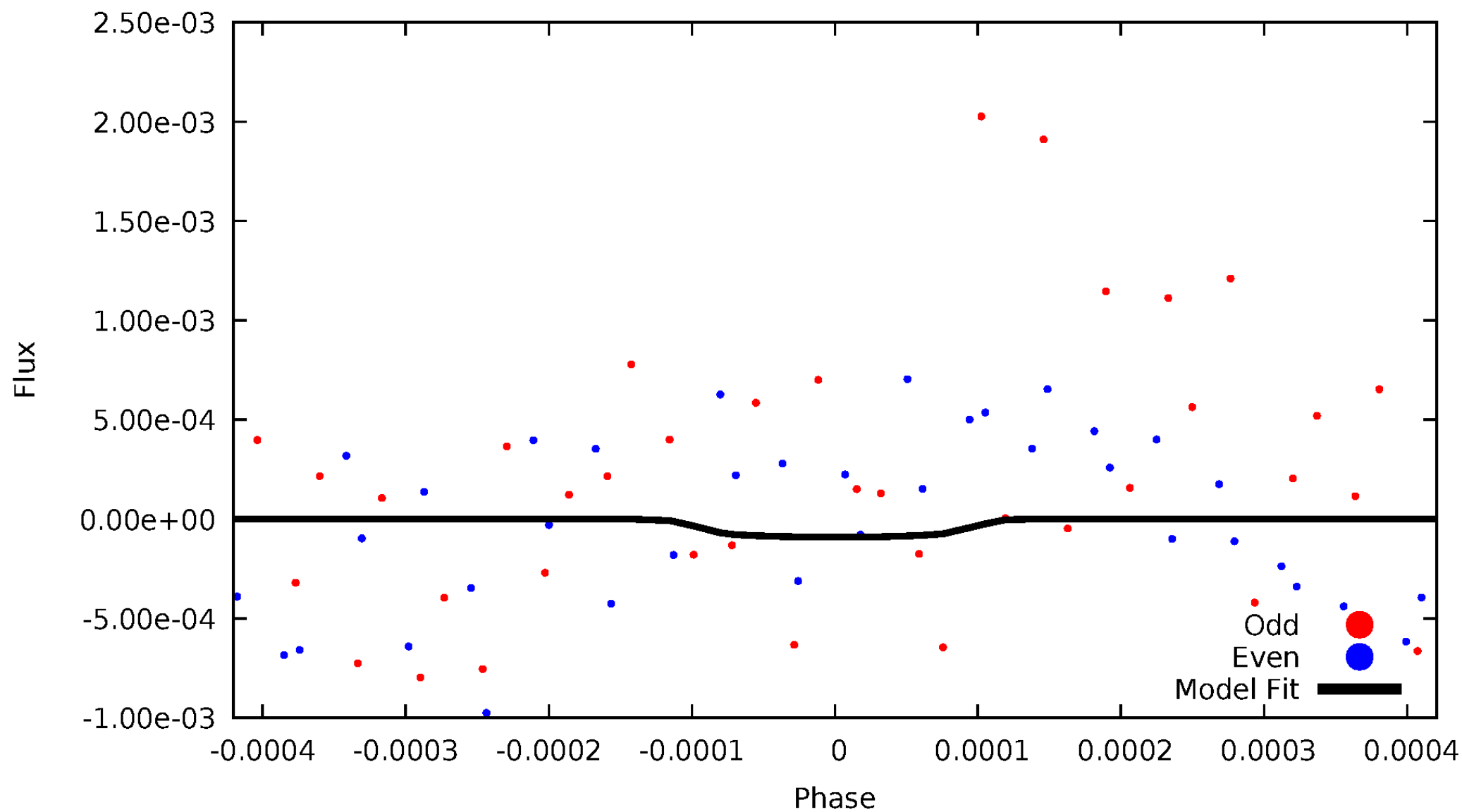


TCE 006507888-05



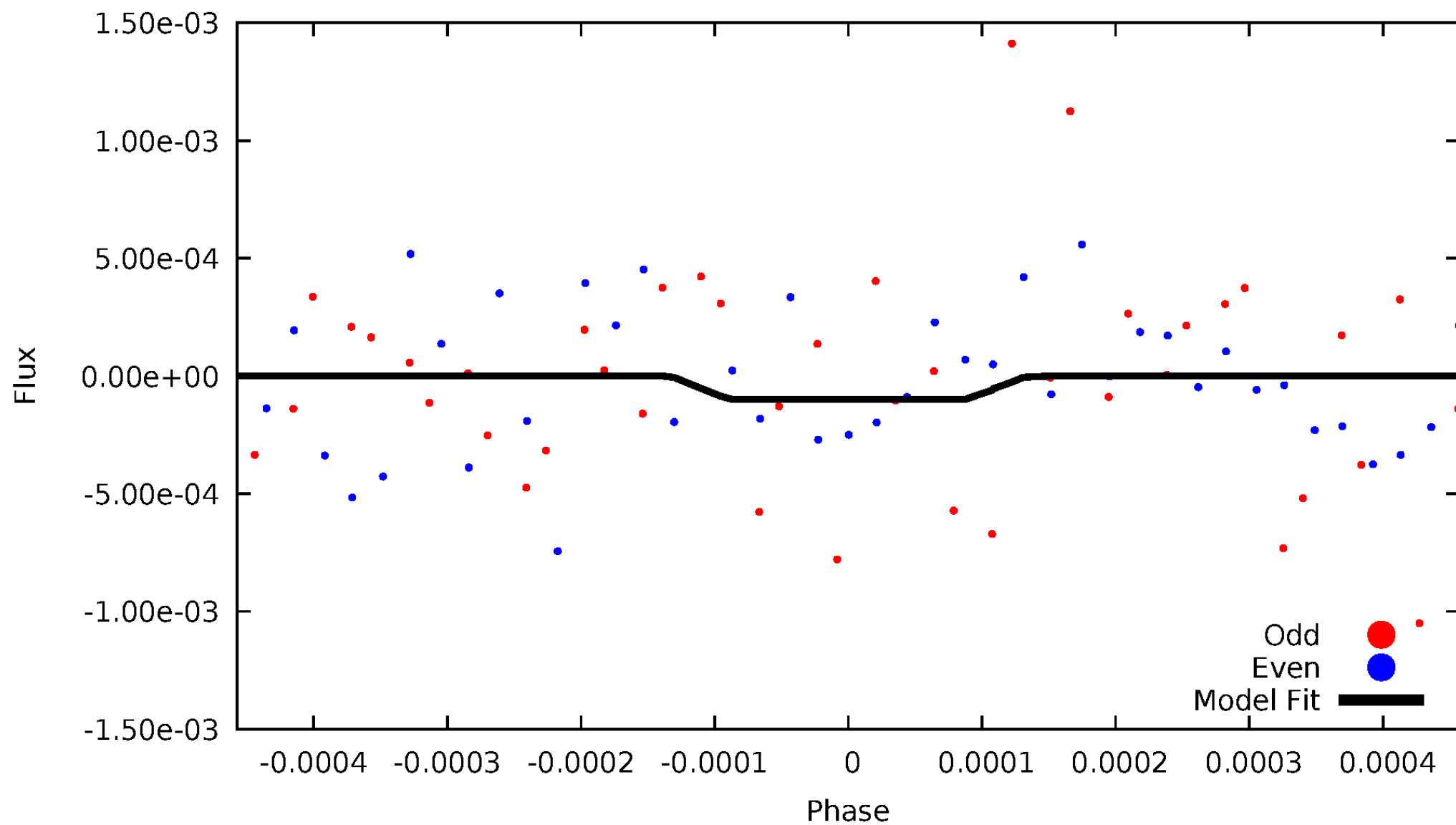
DV Odd/Even

TCE 006507888-05



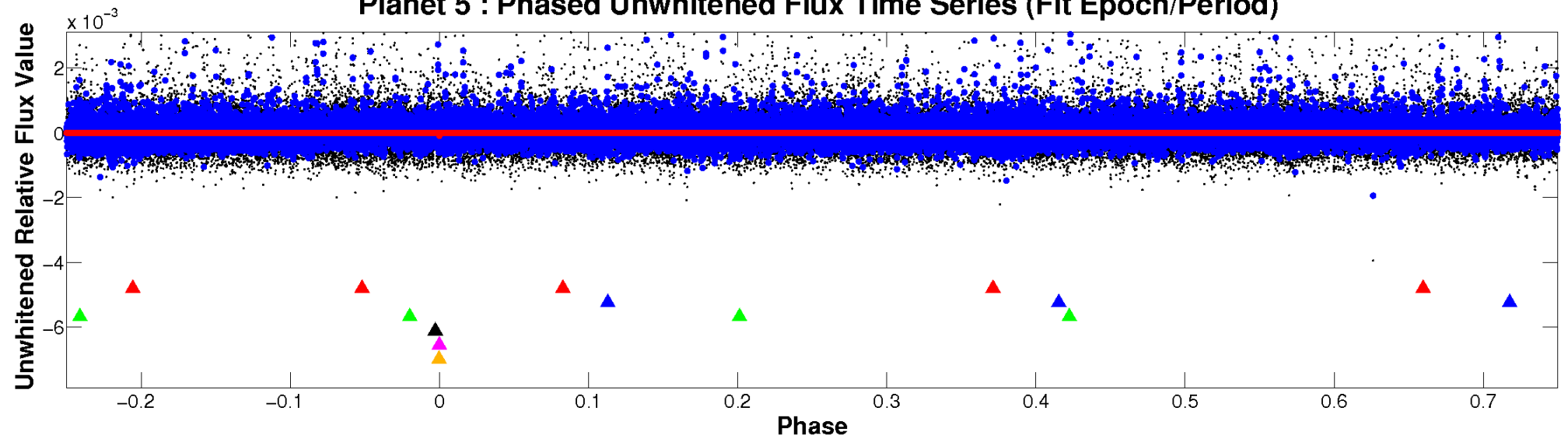
ALT Odd/Even

TCE 006507888-05

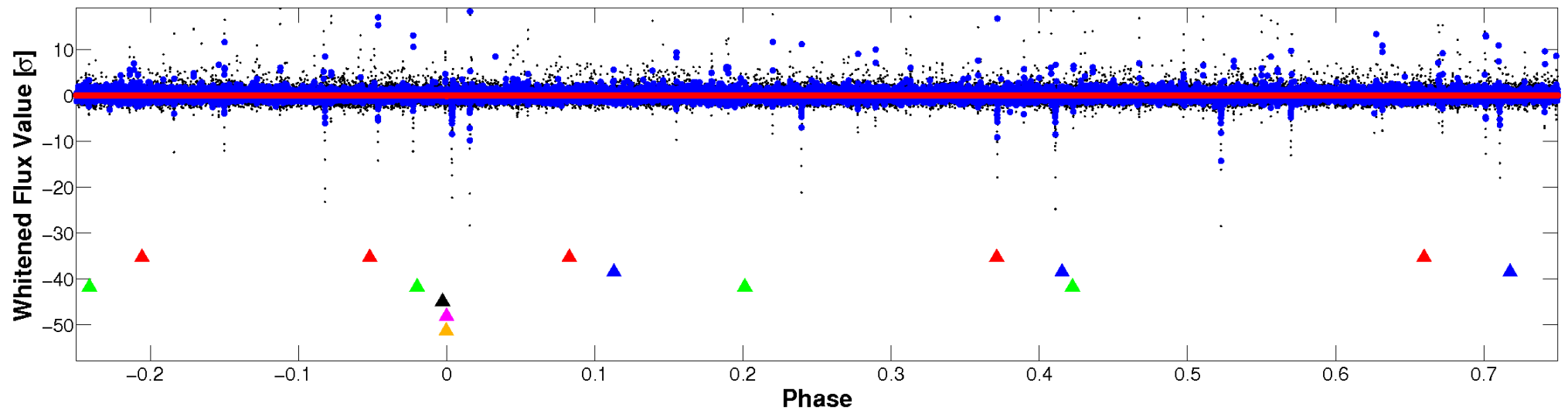


Non-Whitened Vs. Whitened Light Curve

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

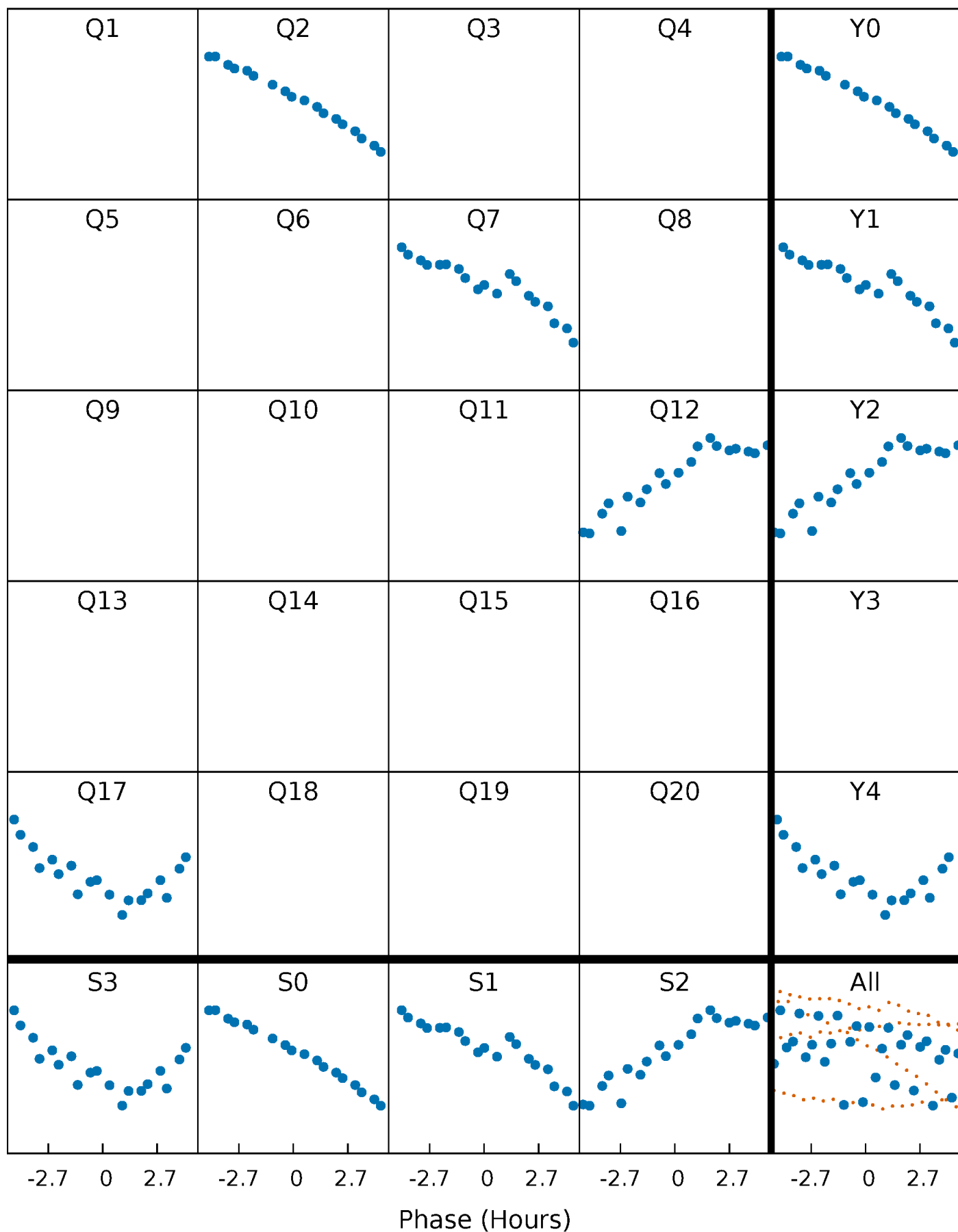


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



PDC Quarter-Phased Transit Curves

TCE 006507888-05 $P=468.987084$ Days $T_0=173.215712$ (BKJD)



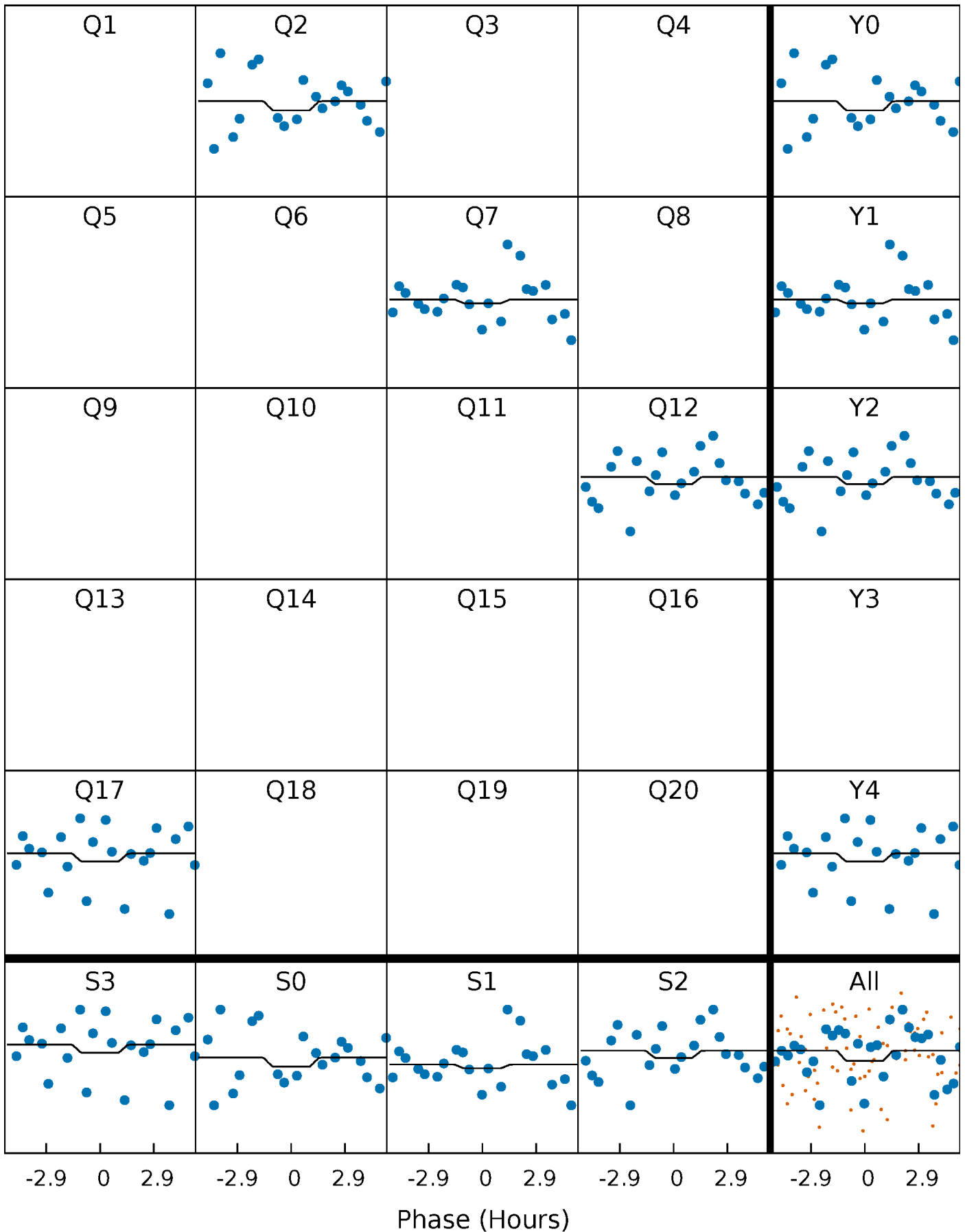
DV Quarter-Phased Transit Curves

TCE 006507888-05 $P=468.987084$ Days $T_0=173.215712$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

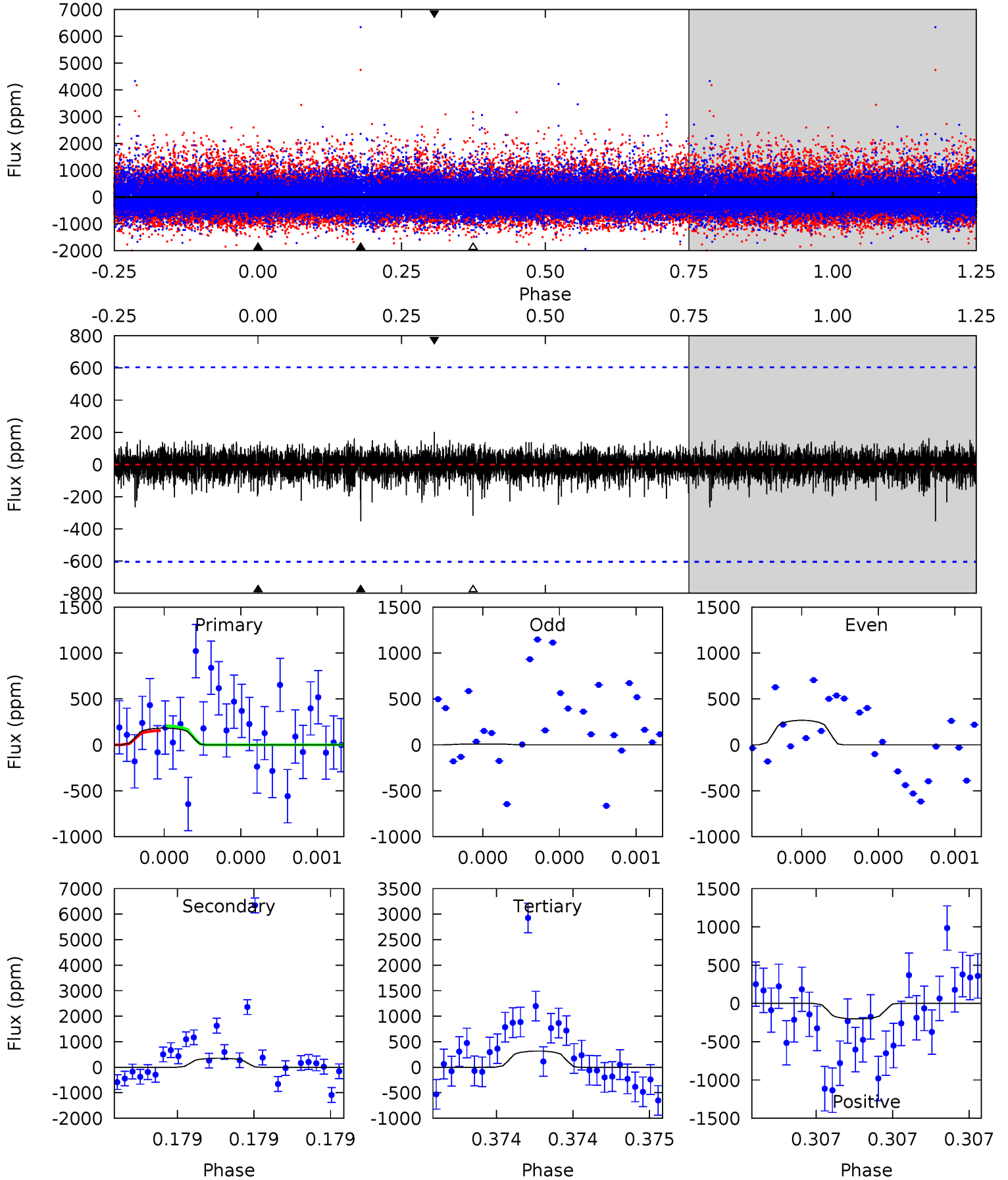
TCE 006507888-05 $P=468.984258$ Days $T_0=173.209126$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-05, P = 468.987084 Days, E = 173.215712 Days

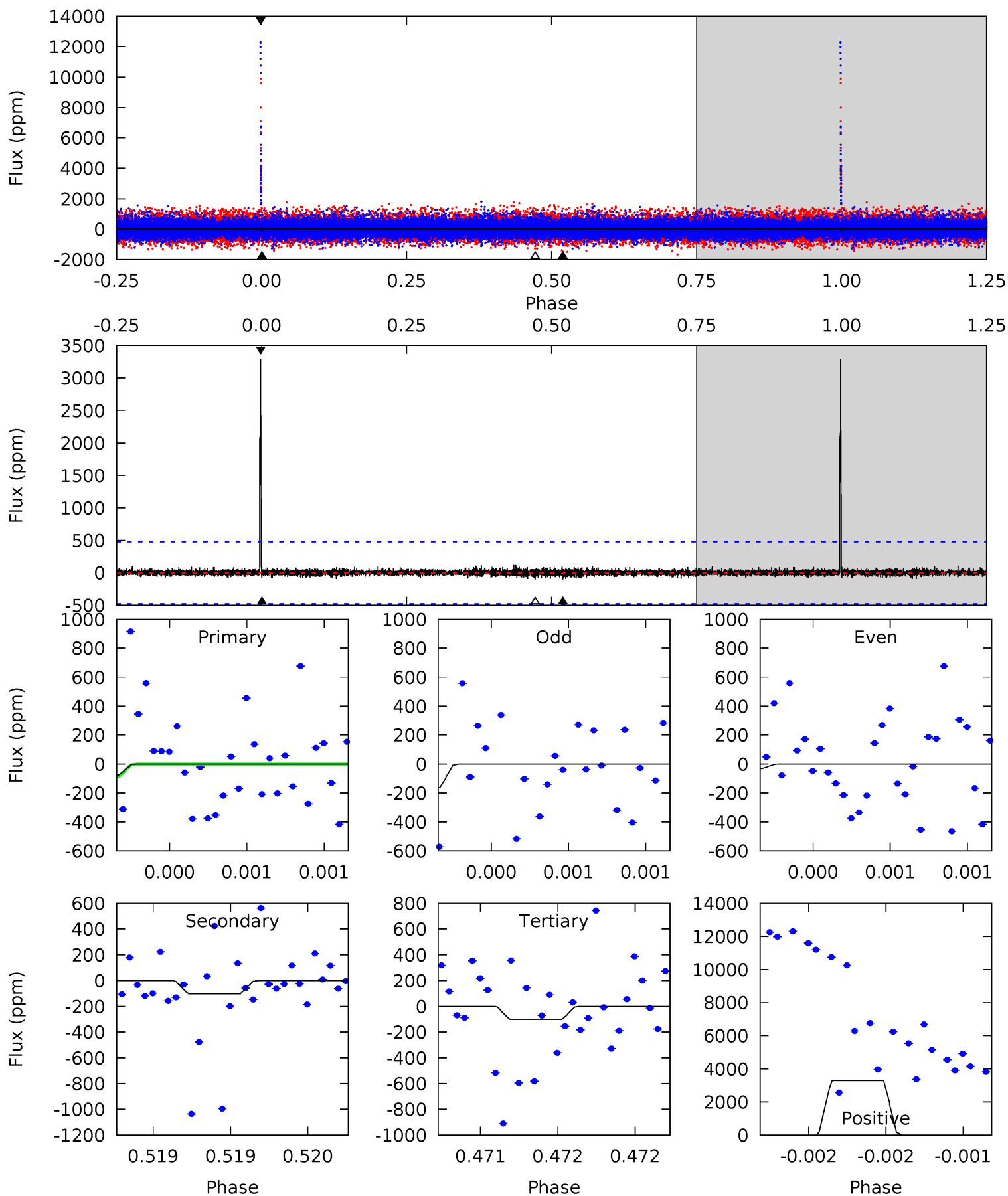
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
1.72	3.31	2.99	1.90	5.69	3.66	0.49	-1.28	-0.19	0.32	1.41	1.02	1.58	0.37	0.24



Alt Model-Shift Uniqueness Test

006507888-05, P = 468.984258 Days, E = 173.209126 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.91	1.21	1.21	38.7	5.69	3.65	0.77	-0.30	-37.8	0.00	-37.5	0.58	1.17	0.97	0.11



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-352 ± 106	$7.17^{+7.69}_{-5.16}$	184^{+2}_{-3}	2326^{+924}_{-343}	3316^{+39743}_{-2553}
Alt.	-103 ± 85	$7.49^{+8.10}_{-5.06}$	184^{+3}_{-3}	1966^{+591}_{-377}	673^{+6445}_{-603}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

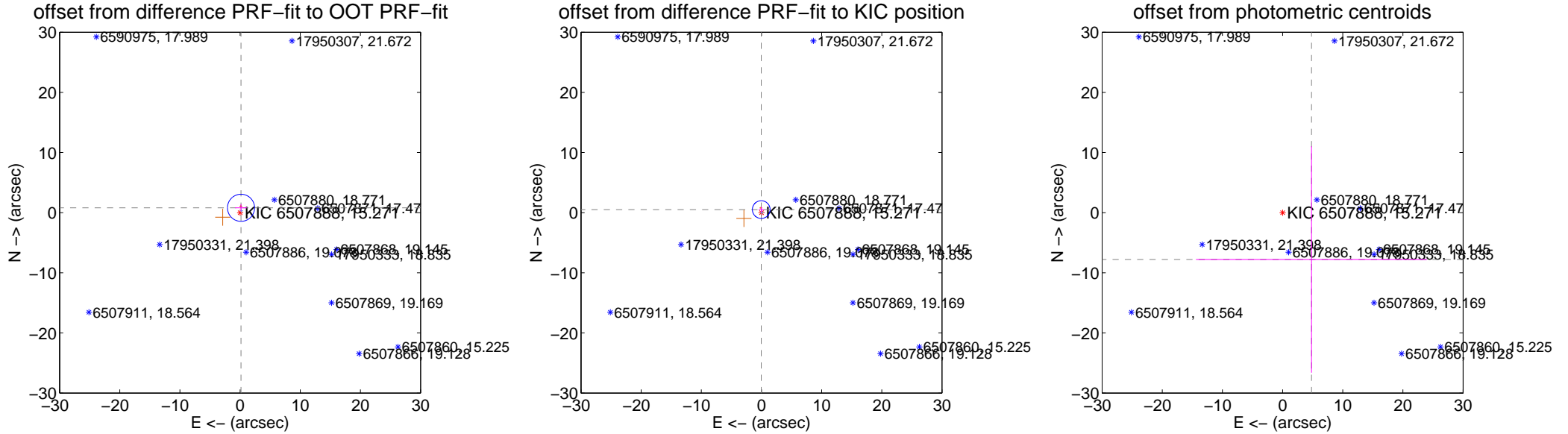
DV Centroid Data

Supplemental centroid analysis for 006507888-05. Kepler magnitude: 15.27. Transit SNR 0.51

There are 1 quarters with good PRF difference image offsets

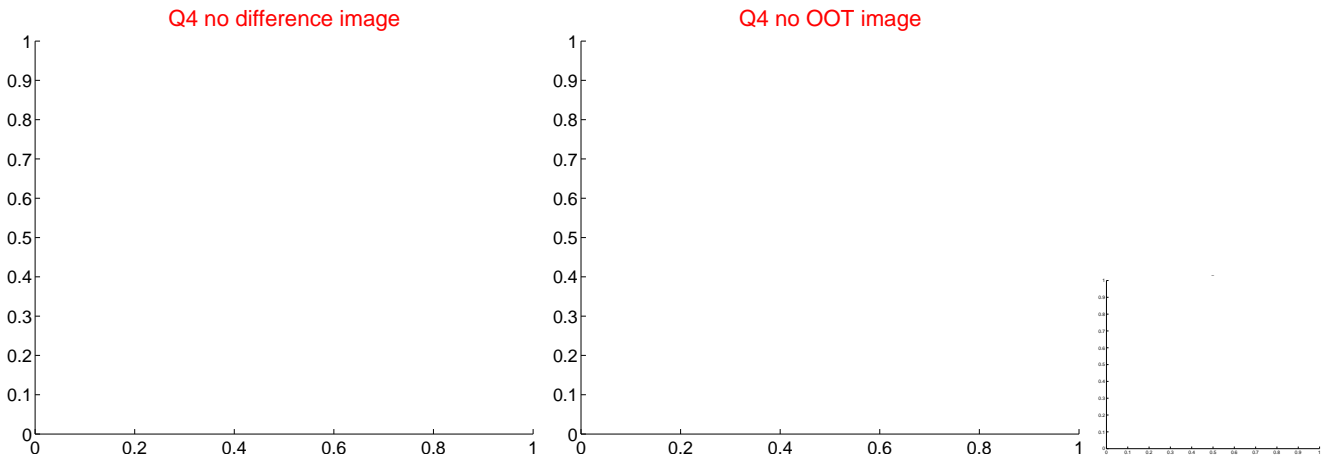
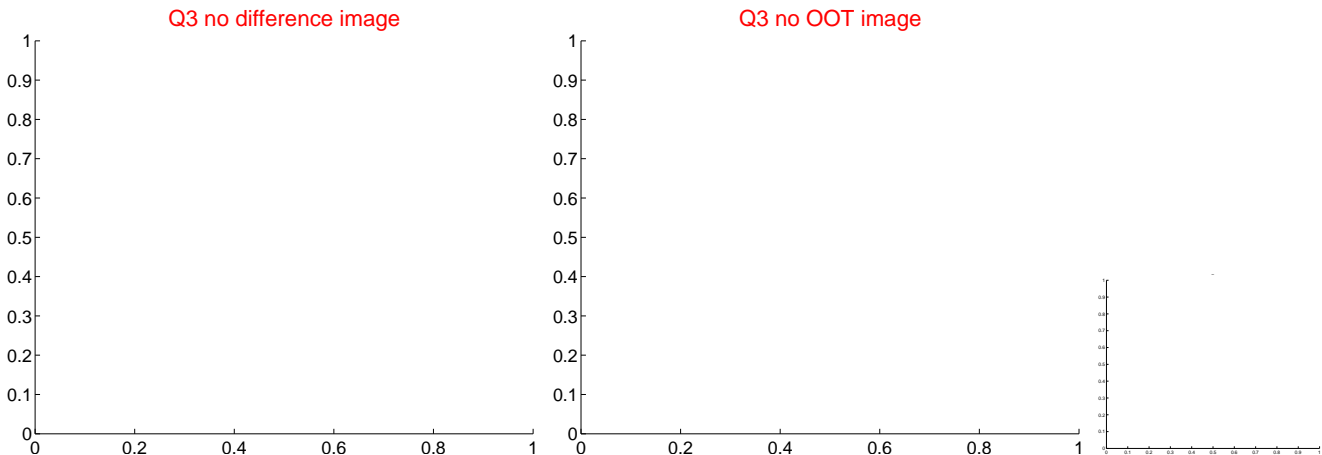
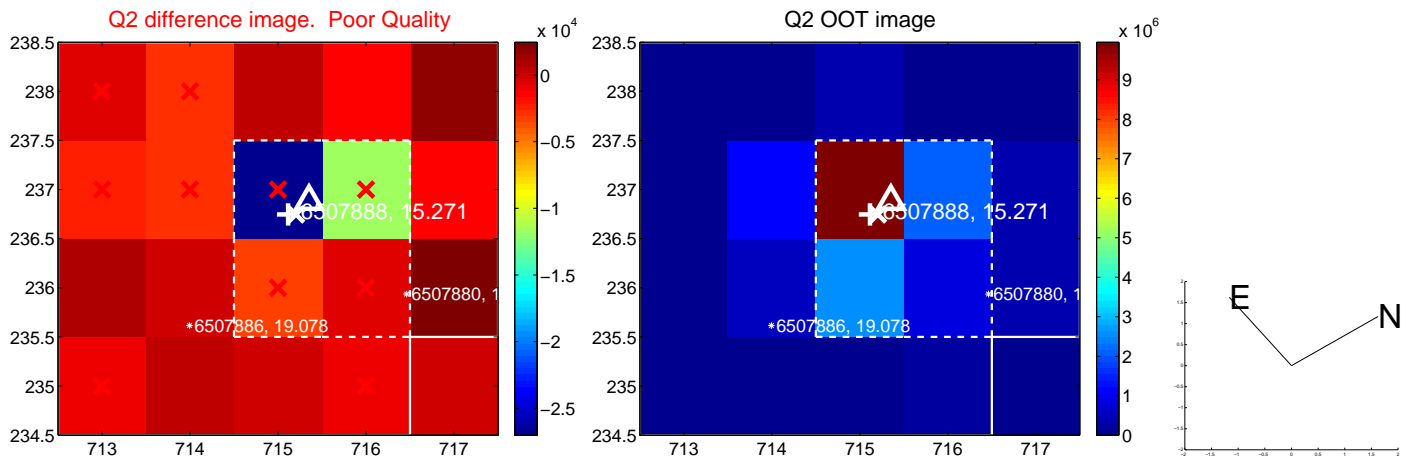
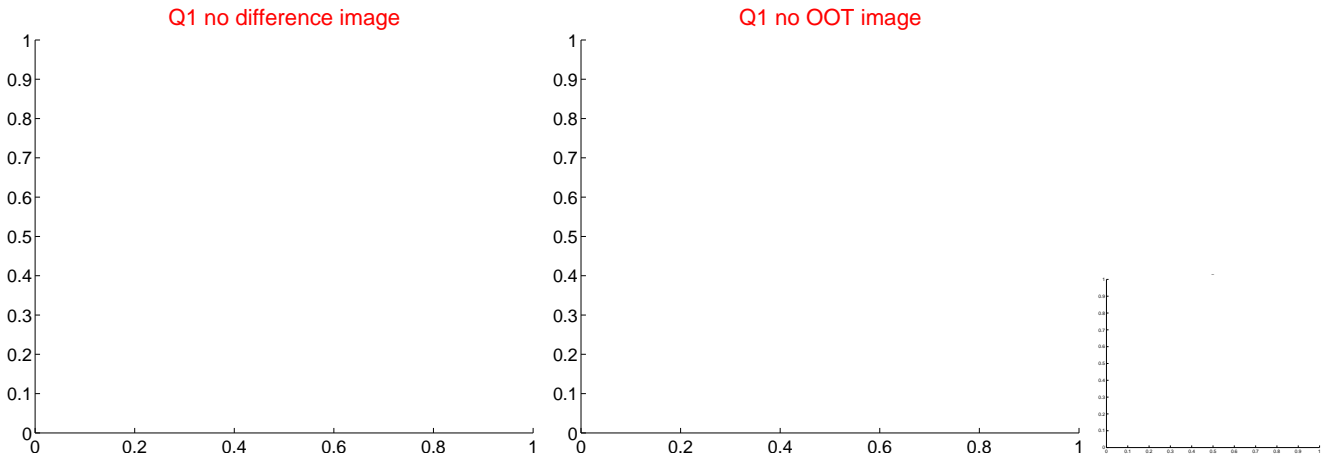
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.821 ± 0.751	1.09	-0.152 ± 0.980	0.807 ± 0.590
PRF-fit source offset from KIC position	0.513 ± 0.491	1.04	0.040 ± 0.441	0.511 ± 0.491
photometric centroid source offset	9.15 ± 18.93	0.48	-4.80 ± 19.19	-7.79 ± 18.83



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

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



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

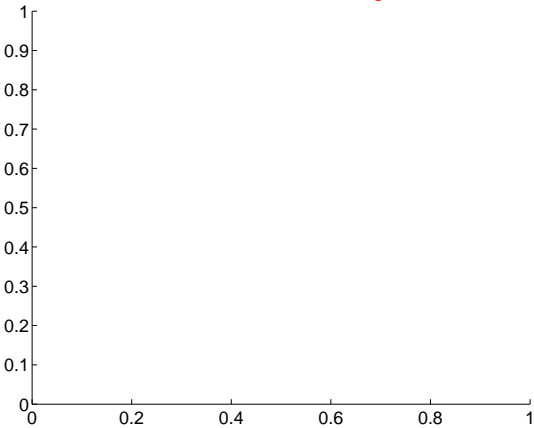
Q5 no difference image



Q5 no OOT image



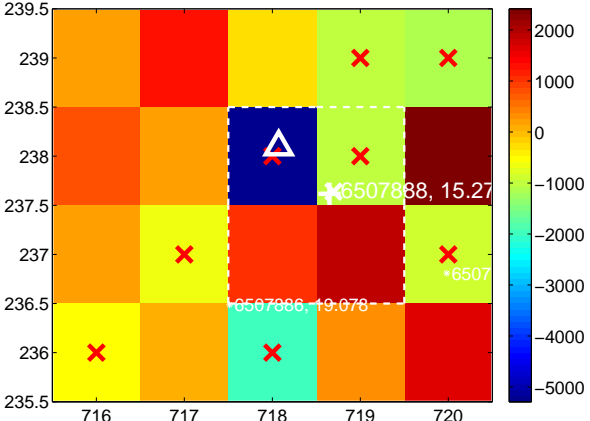
Q6 no difference image



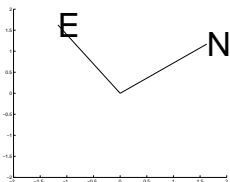
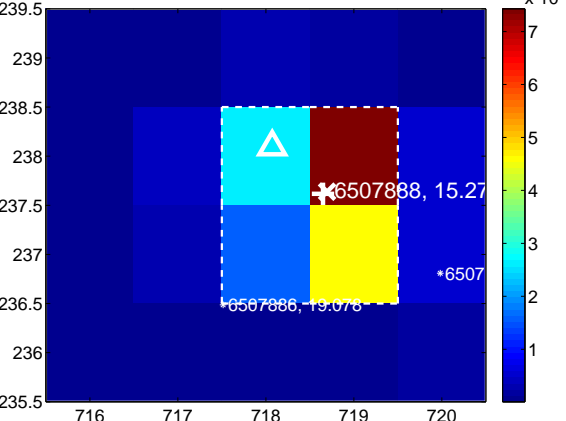
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



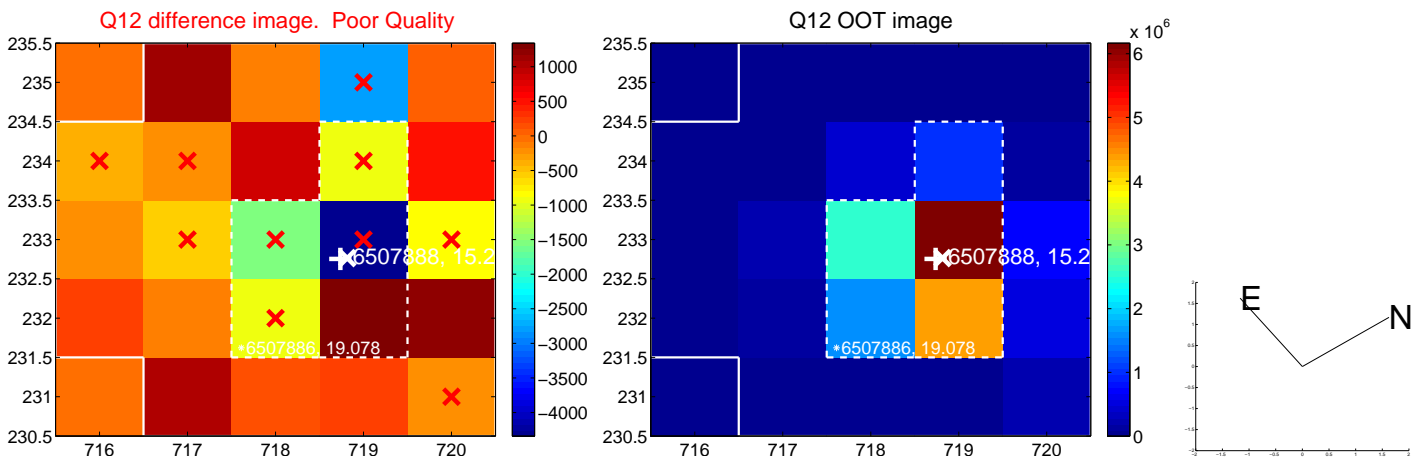
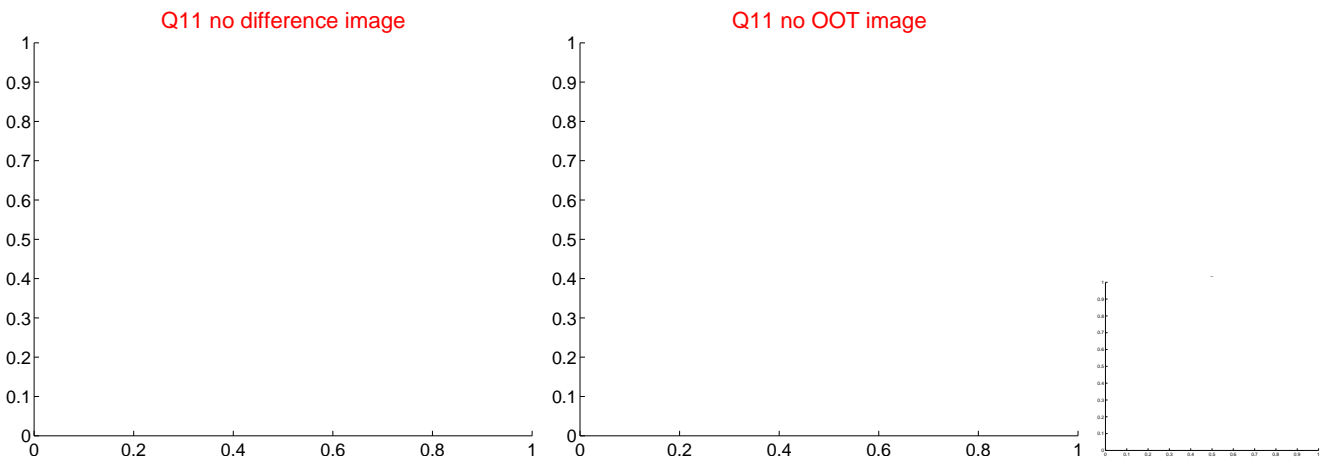
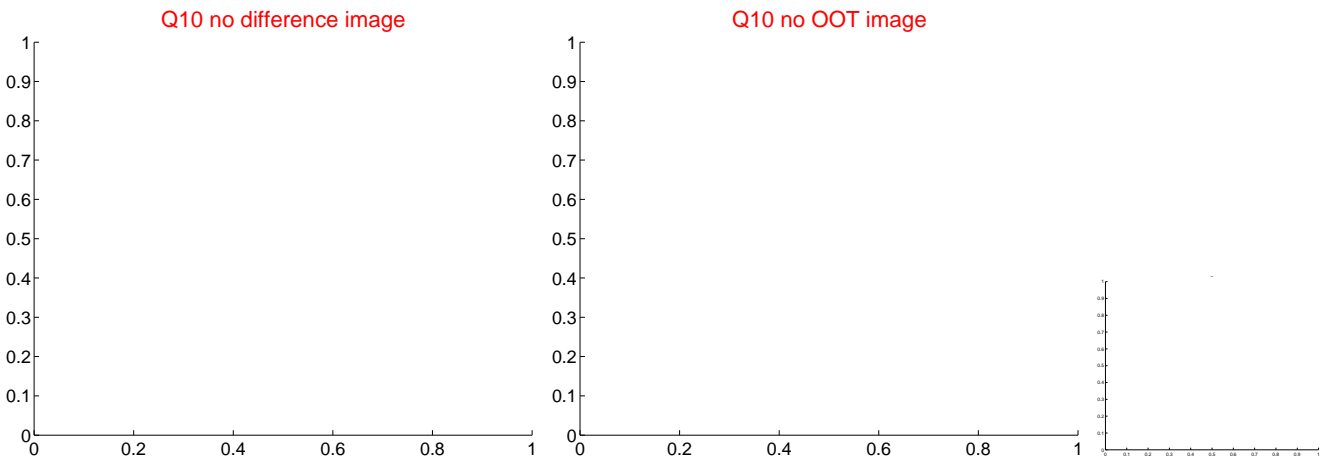
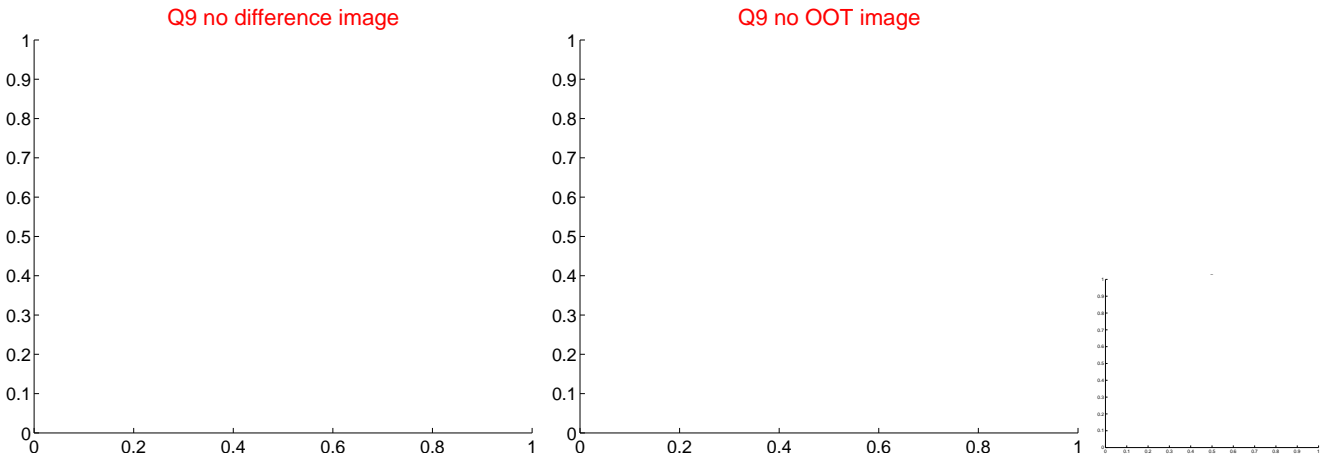
Q8 no difference image



Q8 no OOT image



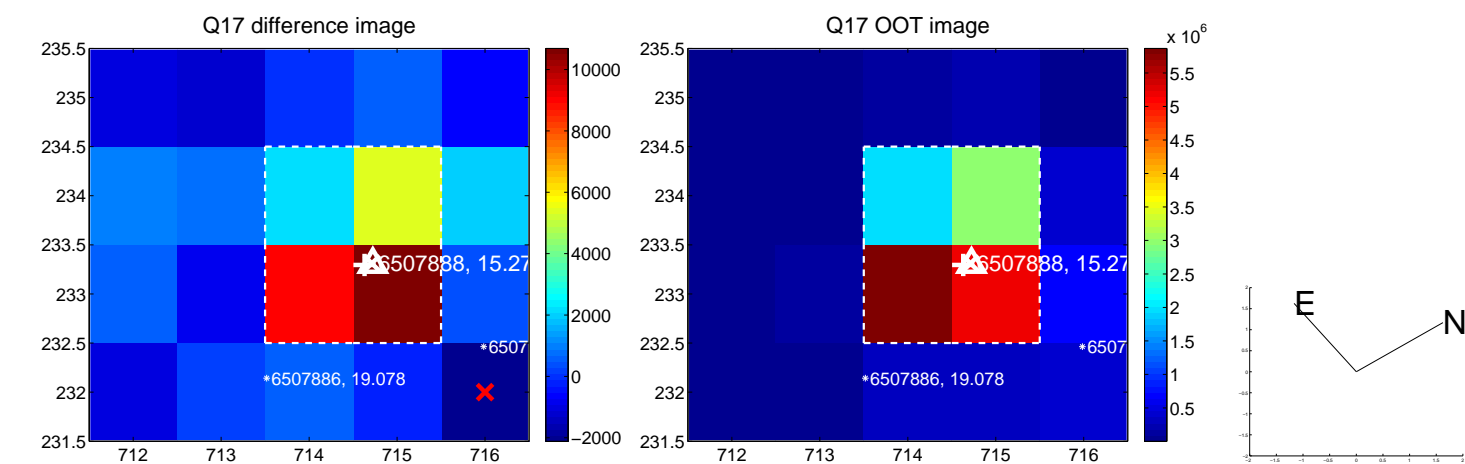
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



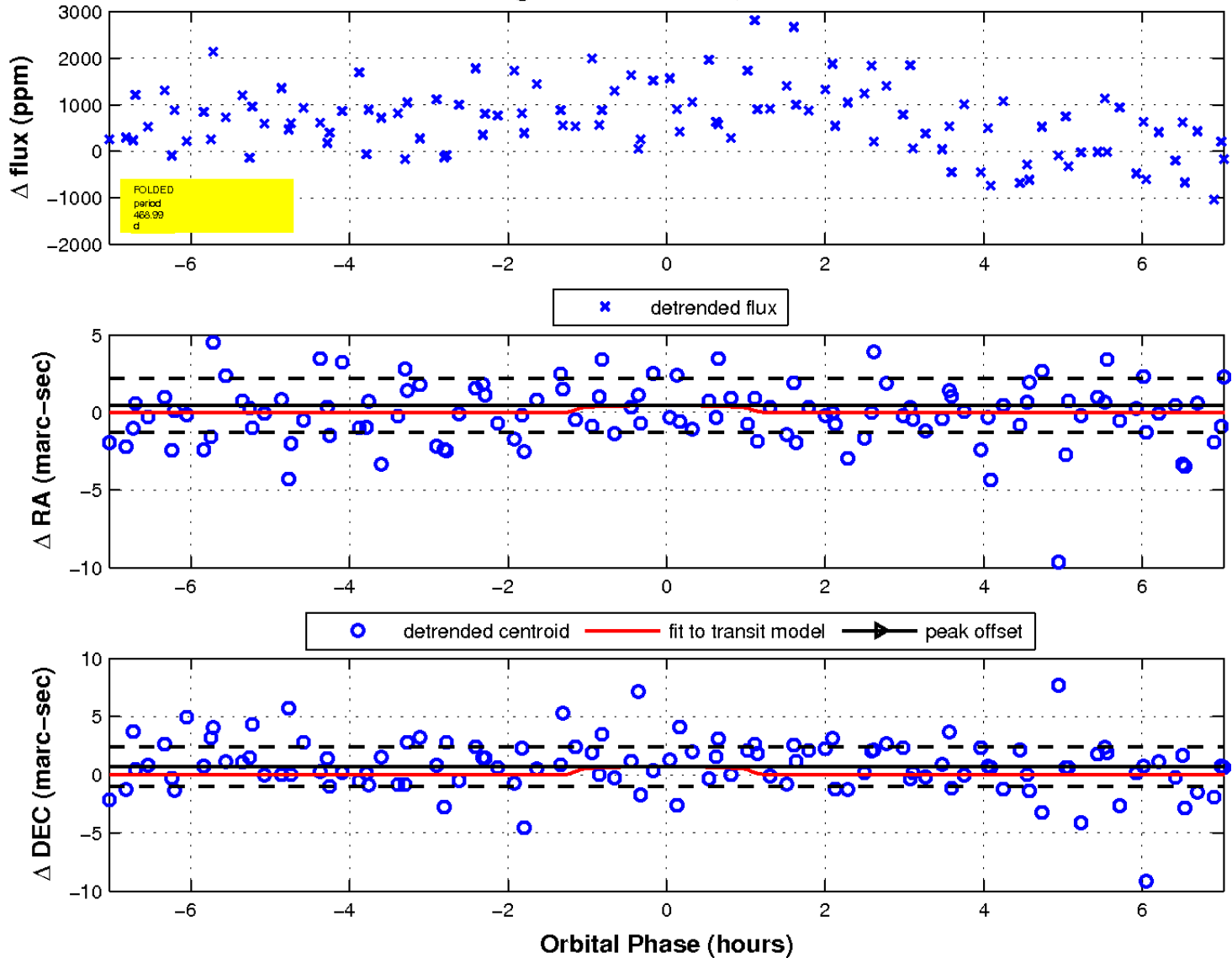
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

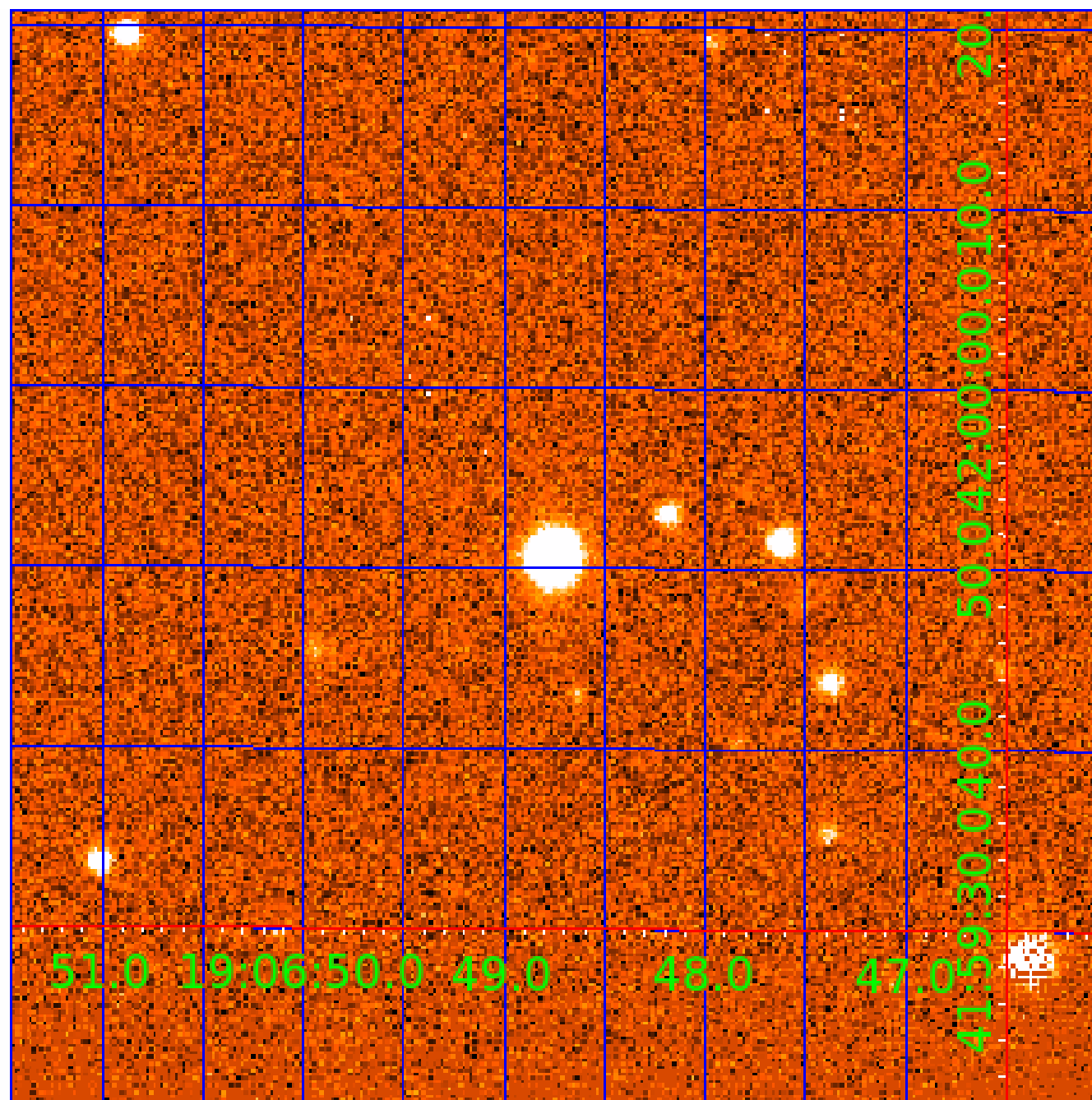


fluxWeightedCentroids, Planet 5 of 6



UKIRT Image

Declination



KIC 006507888

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})
006507888-01	OBS	No	333.718841	148.888920	1443.7	3.331	14.4	8.1	0.56	3949	2.22	0.11
006507888-02	OBS	No	610.794592	226.196180	1289.2	4.896	11.5	6.8	0.56	3949	2.02	0.05
006507888-03	OBS	No	365.271334	371.332735	1160.4	4.417	11.8	6.1	0.56	3949	1.94	0.10
006507888-04	OBS	No	468.990012	171.941716	445.7	5.075	9.4	2.6	0.56	3949	1.28	0.07
006507888-05	OBS	No	468.987084	173.215712	91.2	2.366	10.4	0.5	0.56	3949	0.63	0.07
006507888-06	OBS	No	468.991732	173.106538	624.1	12.184	9.5	2.2	0.56	3949	1.37	0.07

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
006507888-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES—LPP_DV—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
006507888-04	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE_TRACKER—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—CENT_FEW_DIFFS
006507888-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_NONUNIQ_ALT— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—CENT_FEW_DIFFS
006507888-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_CHASES_MARSHALL_SKYE_TRACKER—LPP_DV—LPP_ALT—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV— MOD_TER_ALT—MOD_POS_ALT—INCONSISTENT_TRANS—SAME_NTL_PERIOD—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.

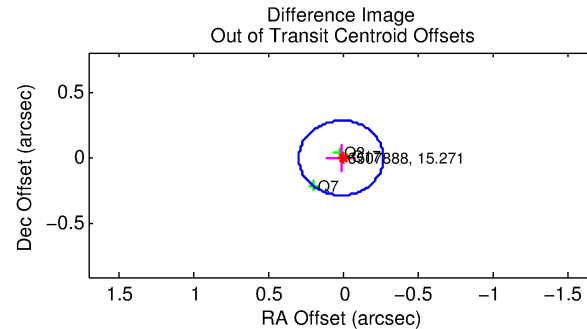
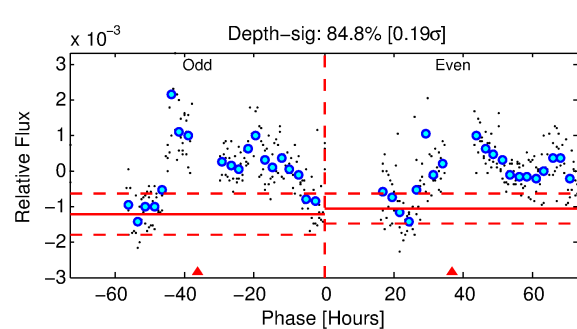
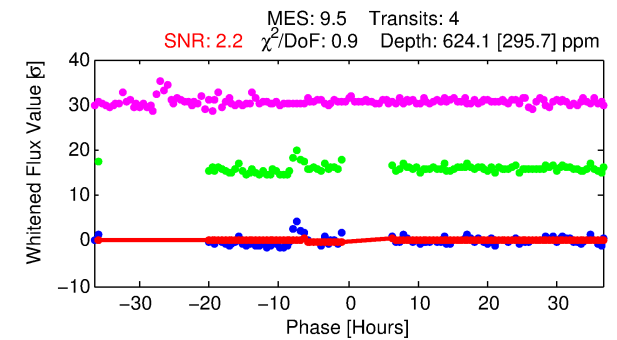
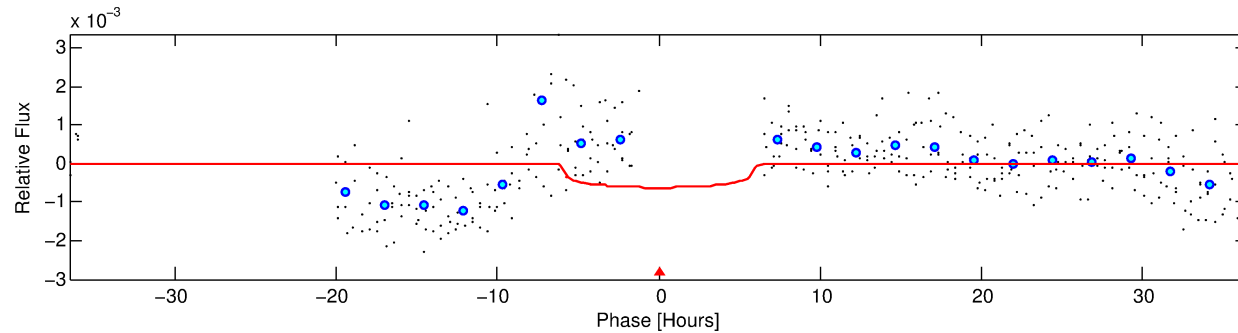
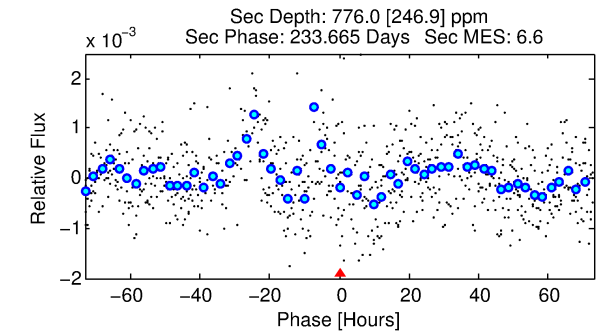
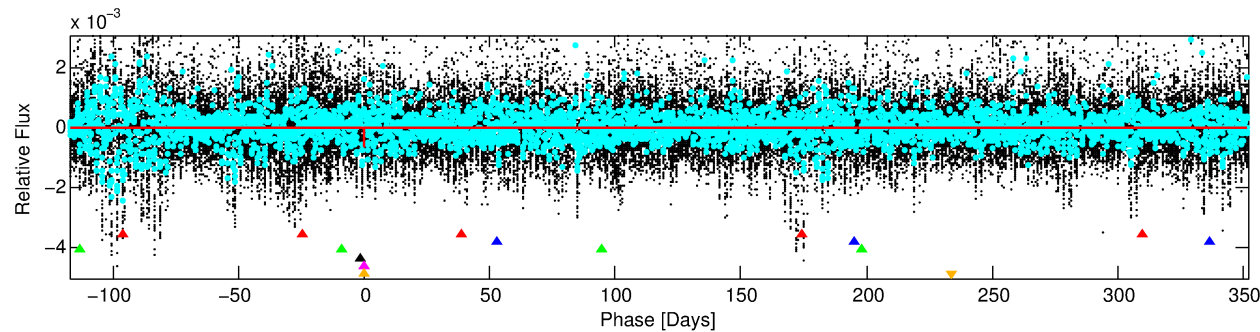
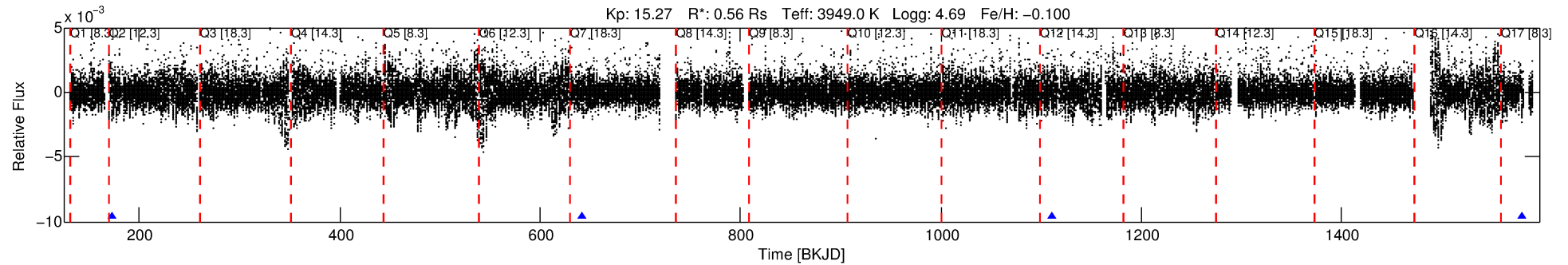
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 006507888-06

No Significant Match Found

DV One-Page Summary

KIC: 6507888 Candidate: 6 of 6 Period: 468.992 d



DV Fit Results:

Period = 468.99173 [0.01684] d
Epoch = 173.1065 [0.0417] BKJD
Rp/R* = 0.0225 [0.0426]
a/R* = 300.58 [2226.81]
b = 0.02 [319.56]
Seff = 0.07 [0.00]
Teq = 132 [2] K
Rp = 1.37 [2.60] Re
a = 0.9744 [0.0340] AU
Ag = 215965.05 [823164.37] [0.26 σ]
Teffp = 4398 [4191] K [1.02 σ]

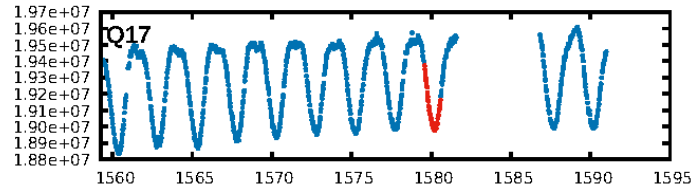
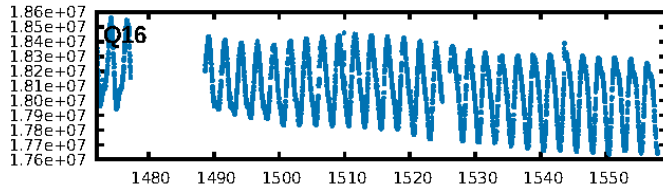
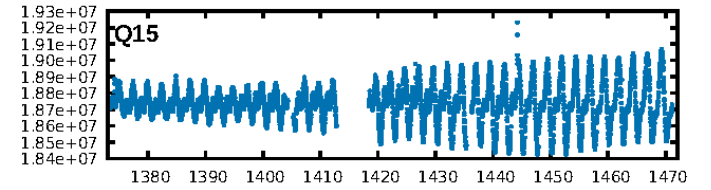
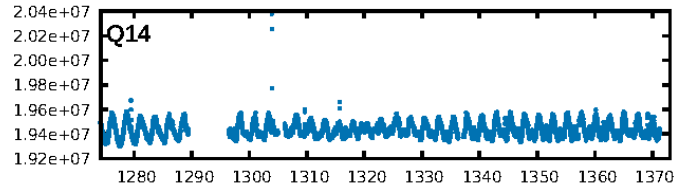
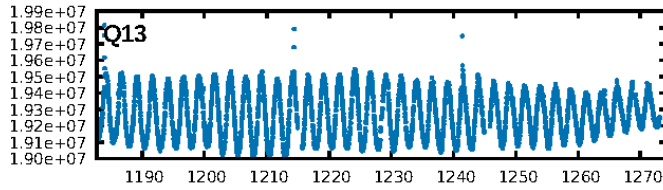
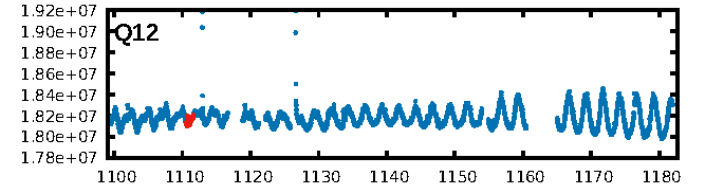
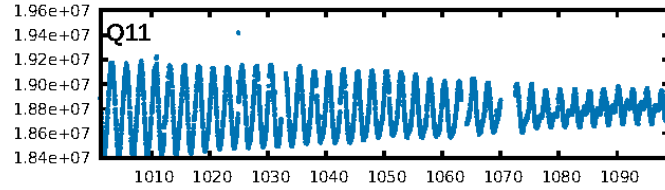
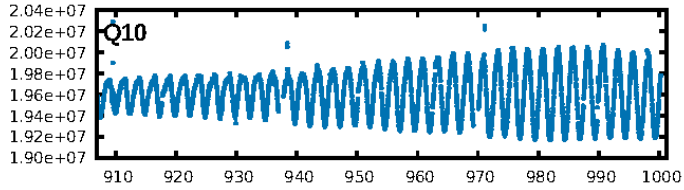
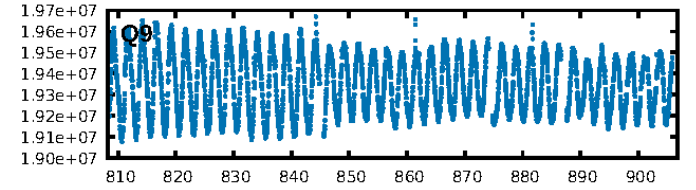
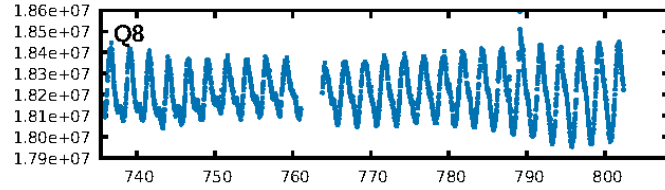
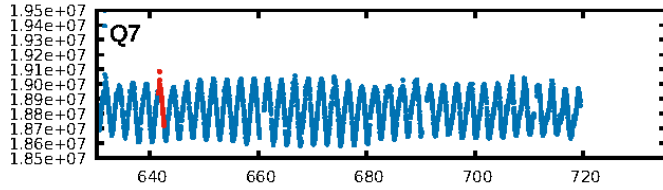
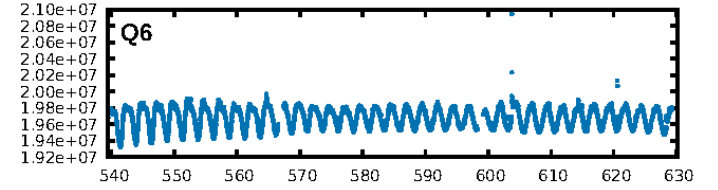
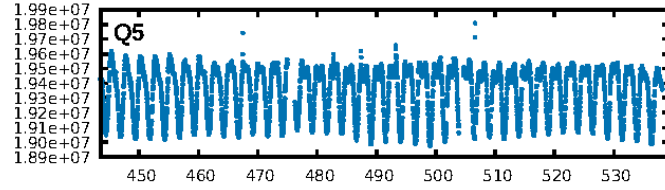
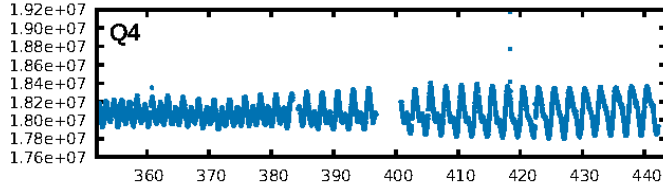
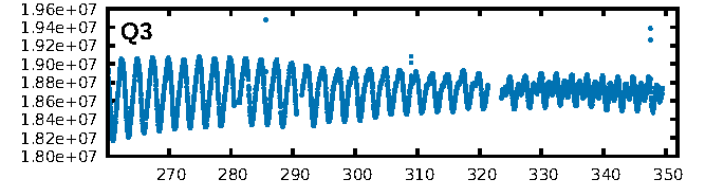
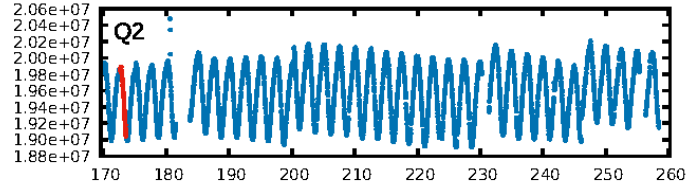
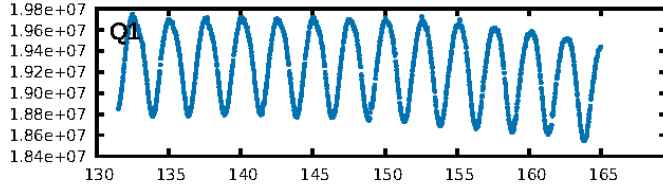
DV Diagnostic Results:

ShortPeriod-sig: 0.2% [0.00 σ]
LongPeriod-sig: 100.0% [259.18 σ]
ModelChiSquare2-sig: 84.7%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 5.16e-09
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -1.917
Centroid-sig: 0.6%
Centroid-so: 1.887 arcsec [1.38 σ]
OotOffset-rm: 0.011 arcsec [0.12 σ]
OotOffset-st: 1/1/0/1 [3]
KicOffset-rm: 0.332 arcsec [4.25 σ]
KicOffset-st: 1/1/0/1 [3]
DiffImageQuality-fgm: 0.33 [1/3]
DiffImageOverlap-fno: 0.00 [0/3]

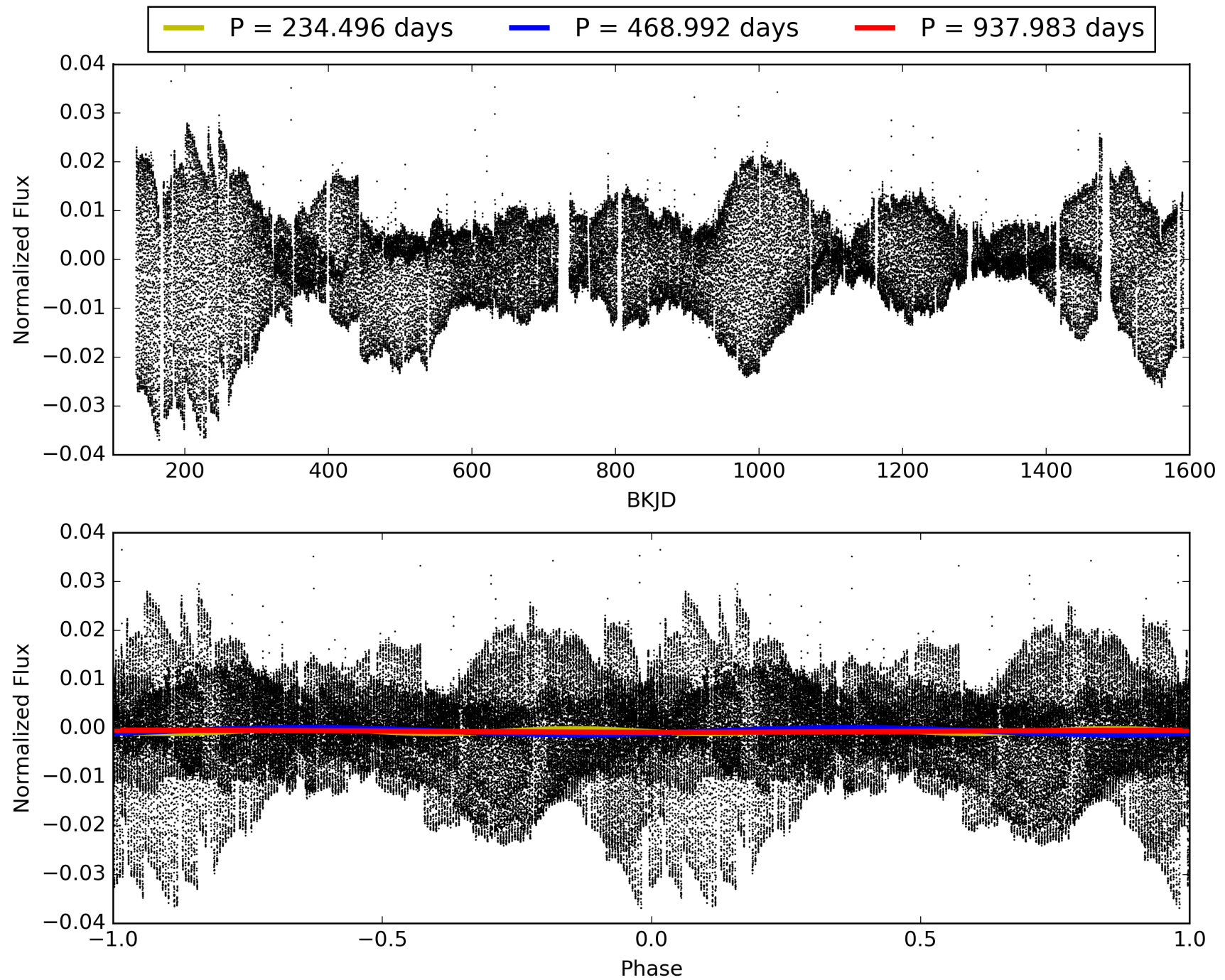
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 01-Feb-2016 19:03:10 Z

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

TCE 006507888-06, PDC Light Curves

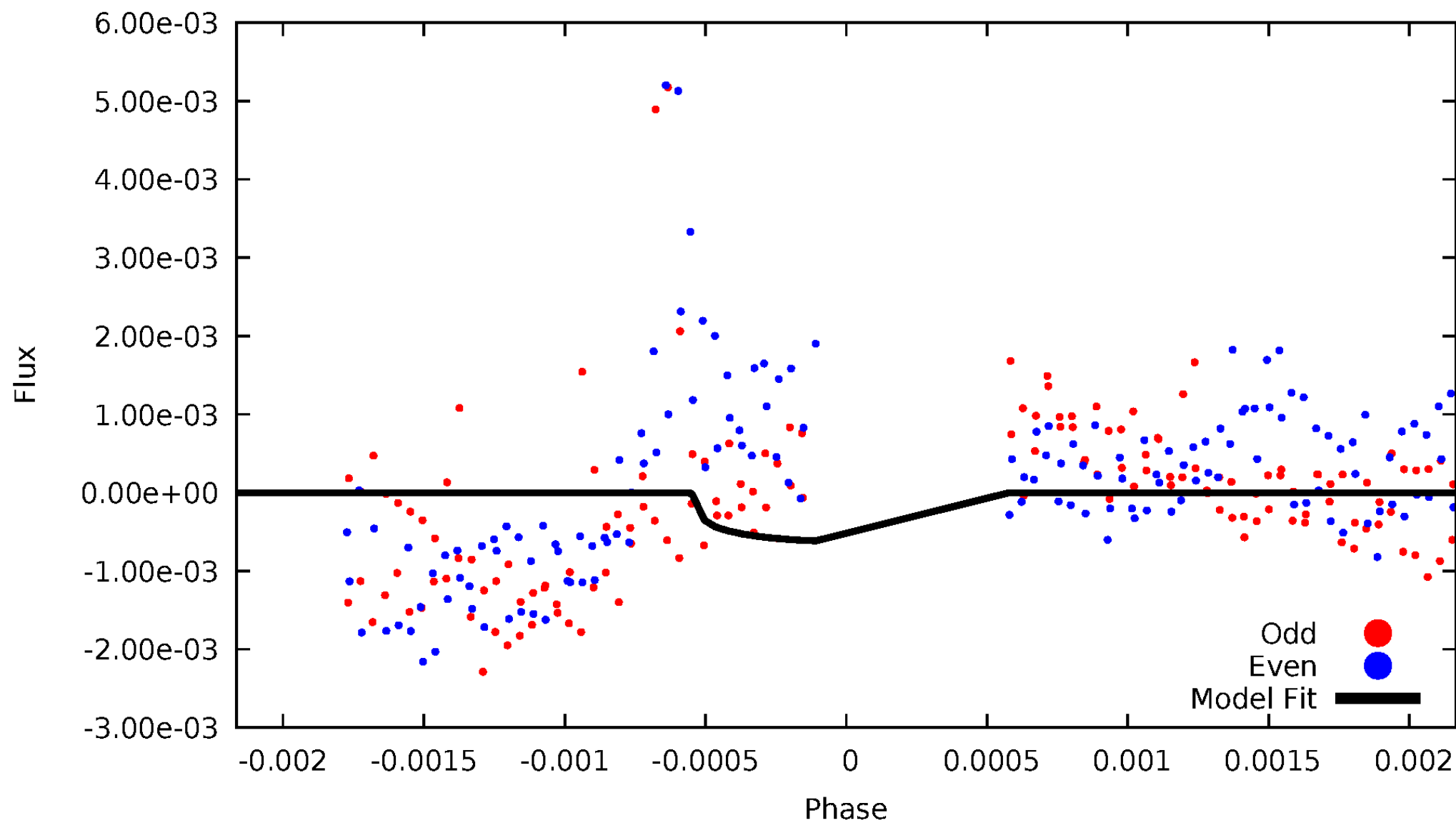


TCE 006507888-06



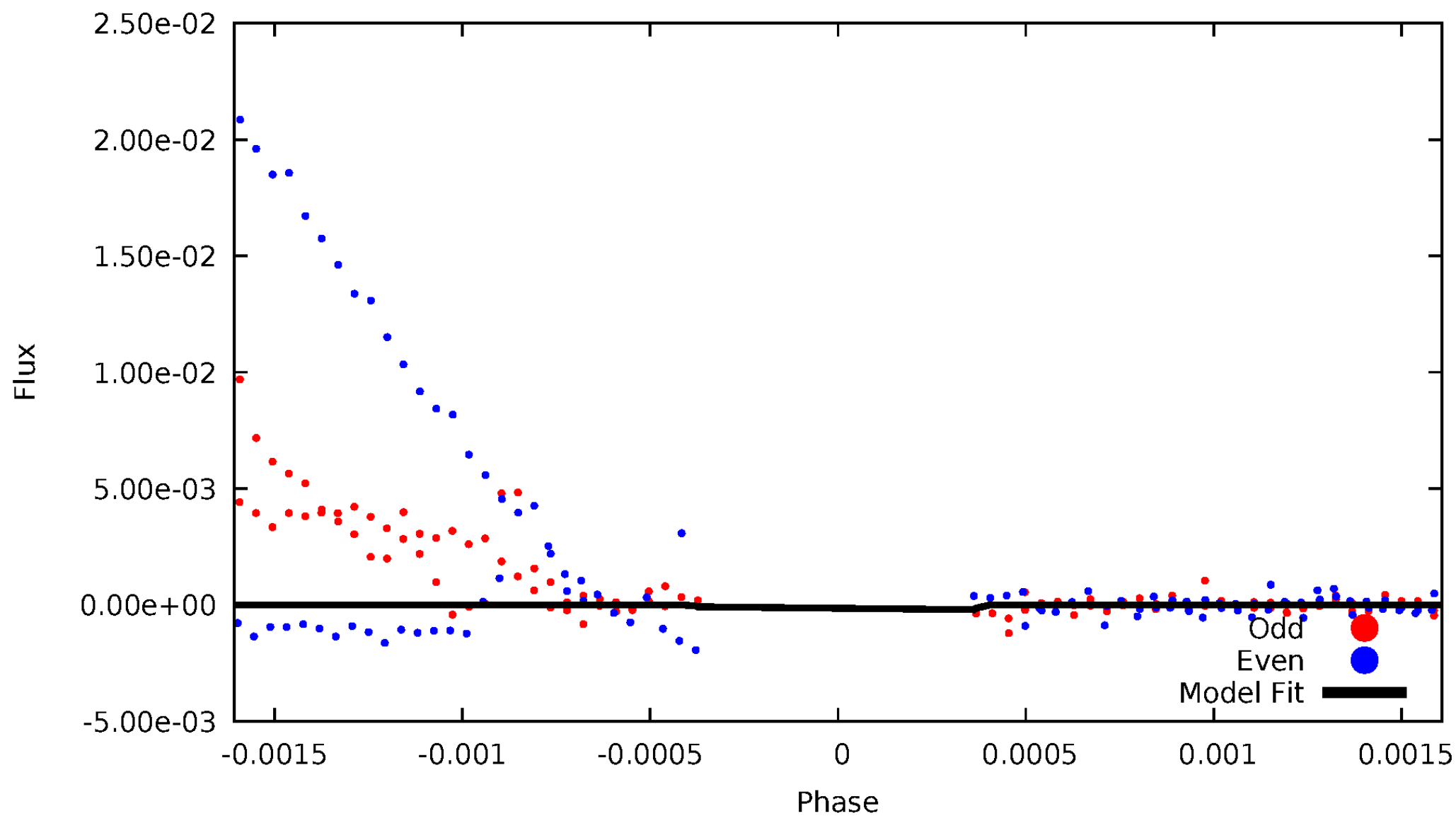
DV Odd/Even

TCE 006507888-06



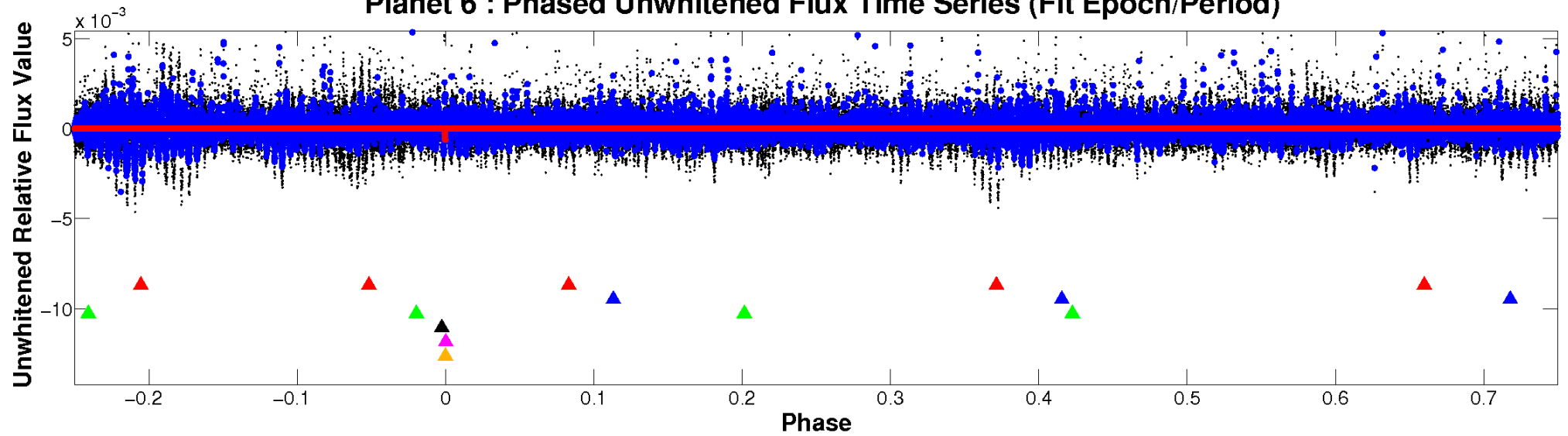
ALT Odd/Even

TCE 006507888-06

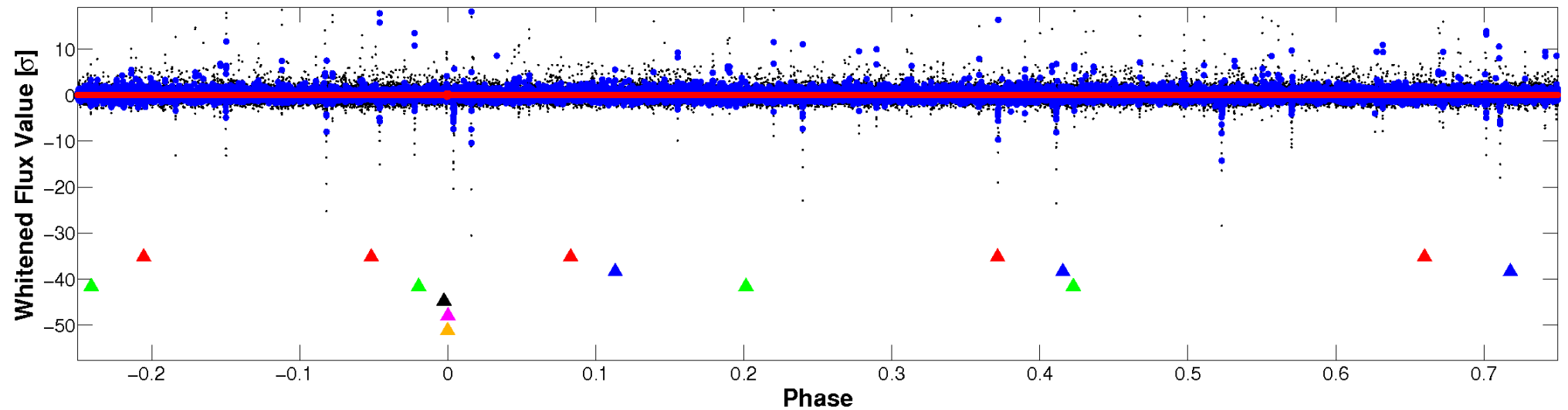


Non-Whitened Vs. Whitened Light Curve

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

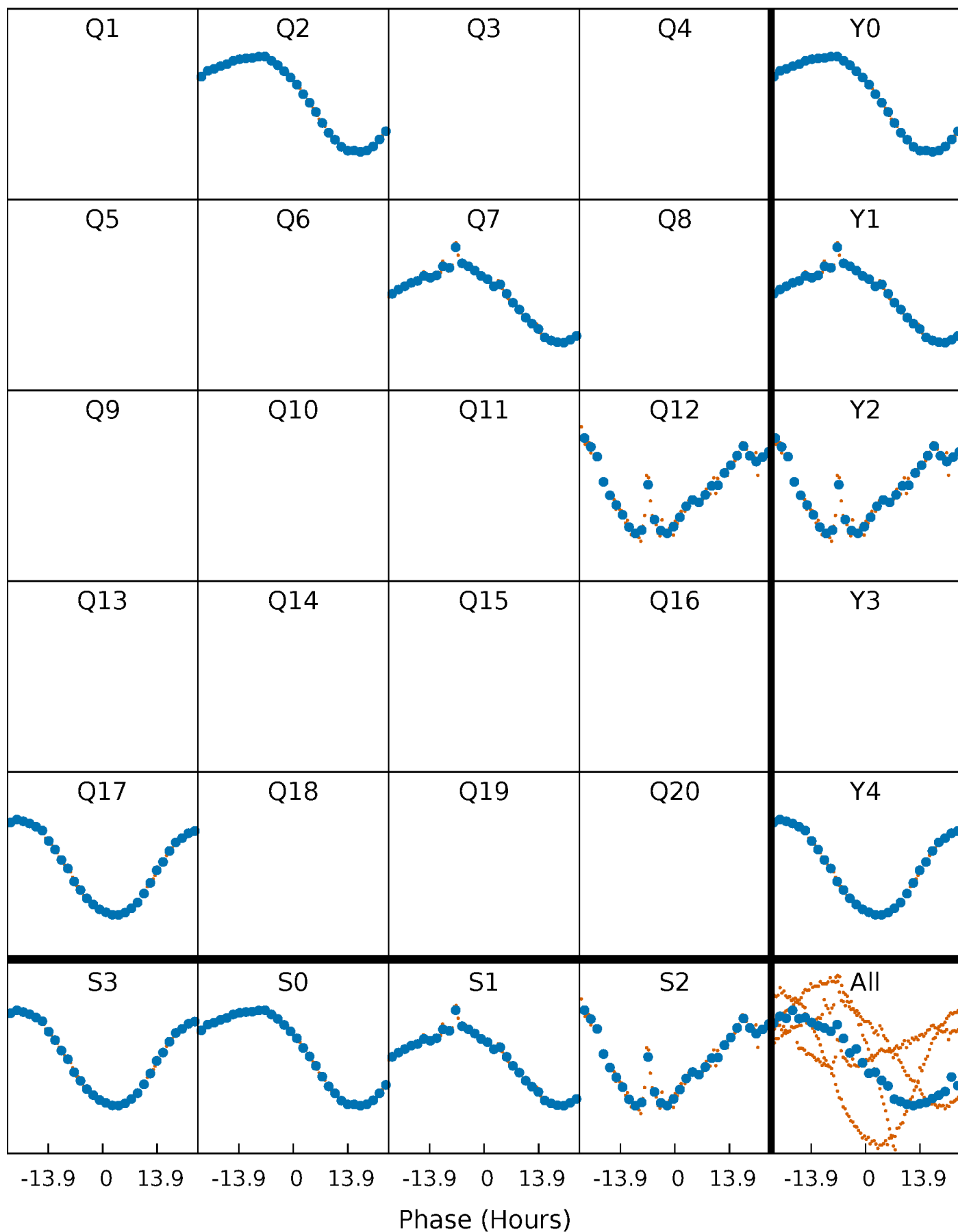


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



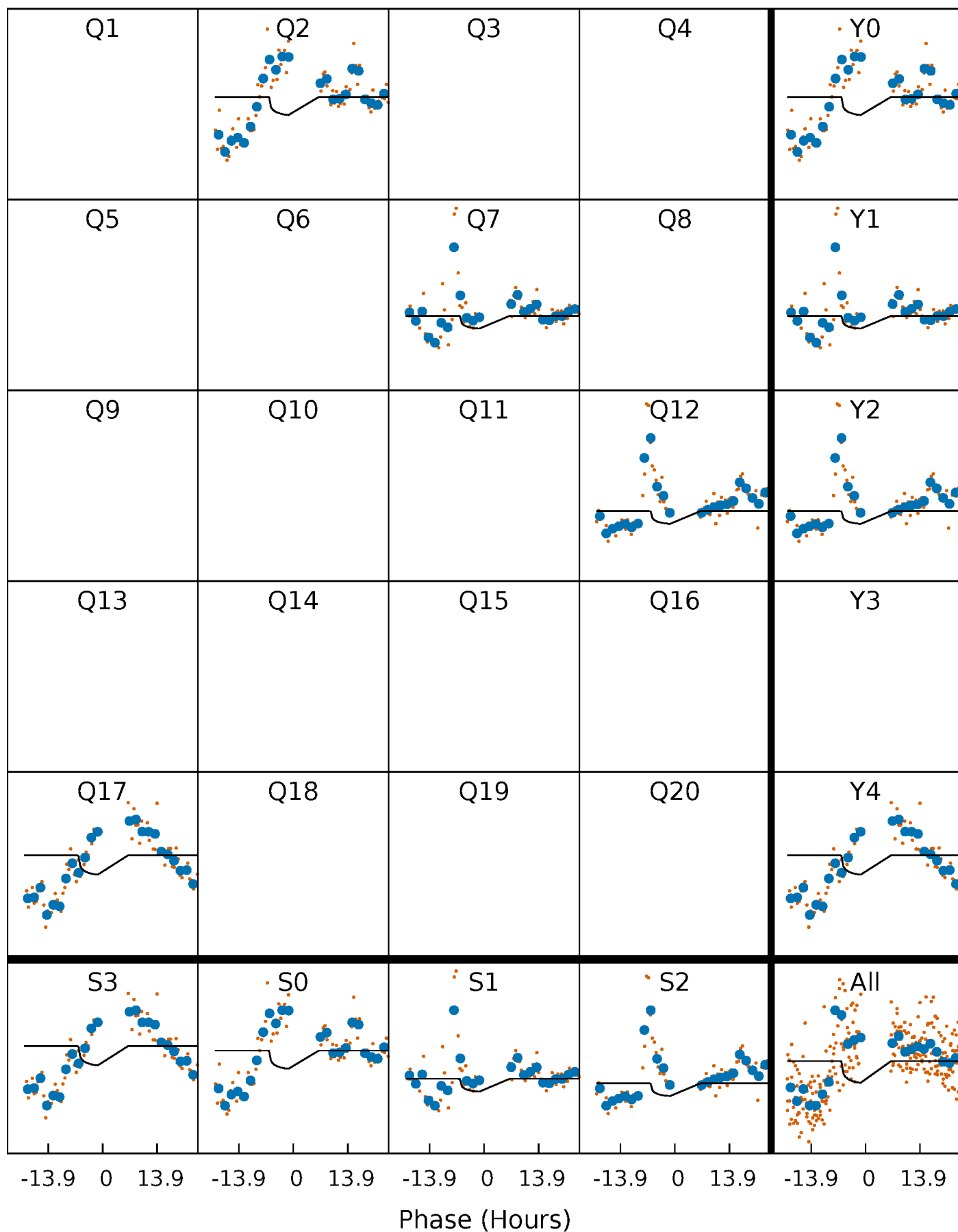
PDC Quarter-Phased Transit Curves

TCE 006507888-06 P=468.991732 Days $T_0=173.106538$ (BKJD)



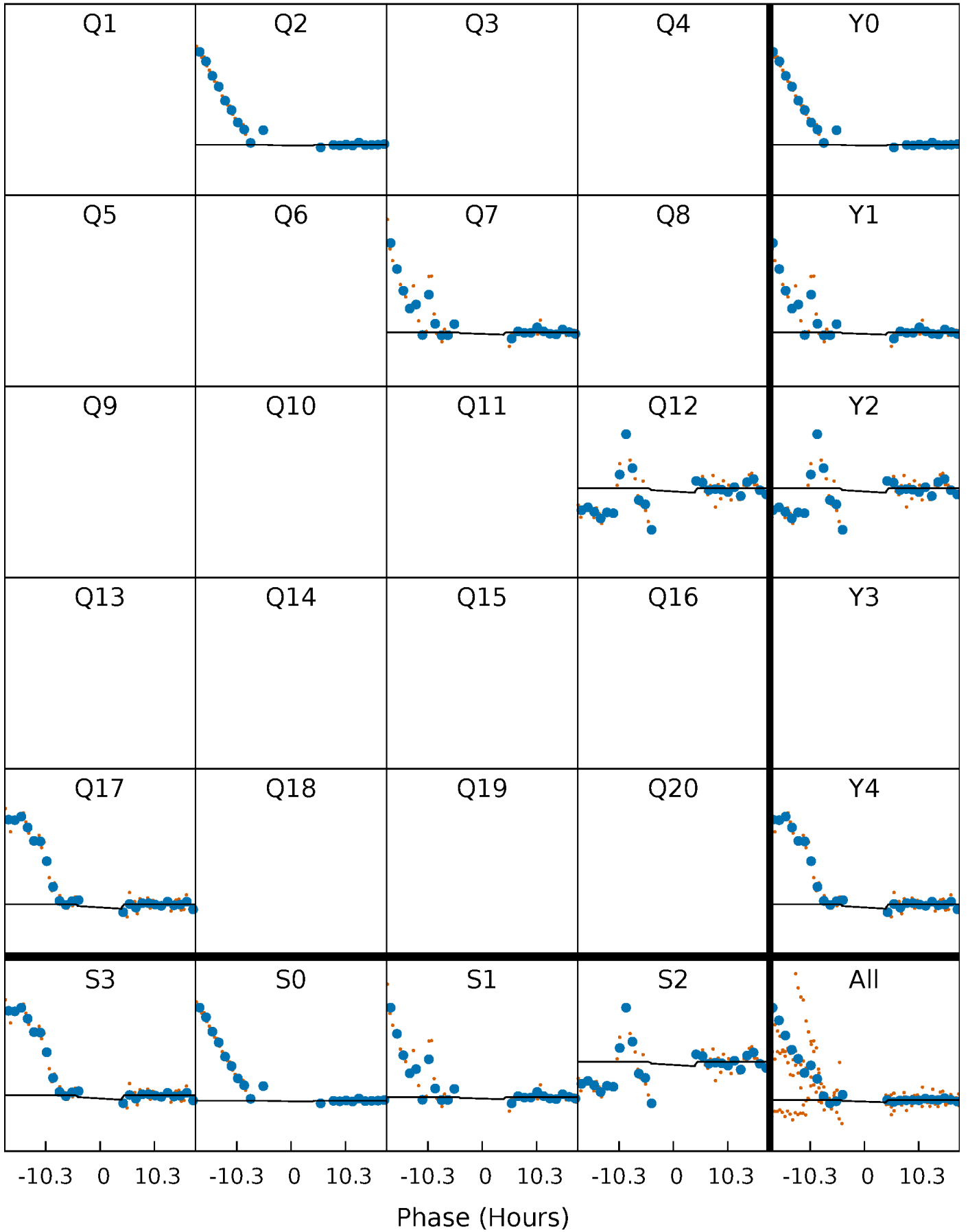
DV Quarter-Phased Transit Curves

TCE 006507888-06 P=468.991732 Days $T_0=173.106538$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

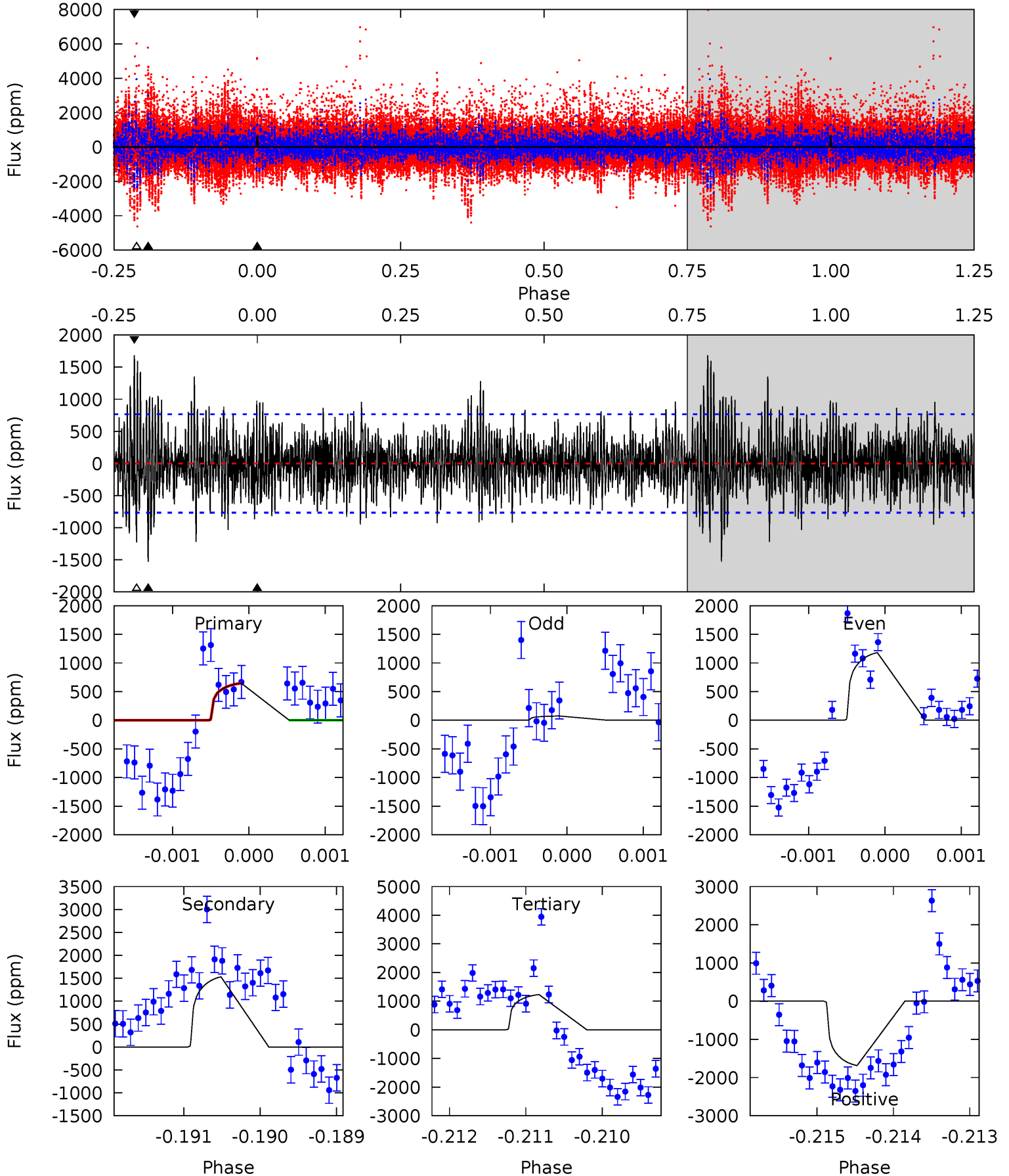
TCE 006507888-06 P=468.991069 Days $T_0=173.209962$ (BKJD)



DV Model-Shift Uniqueness Test

006507888-06, P = 468.991732 Days, E = 173.106538 Days

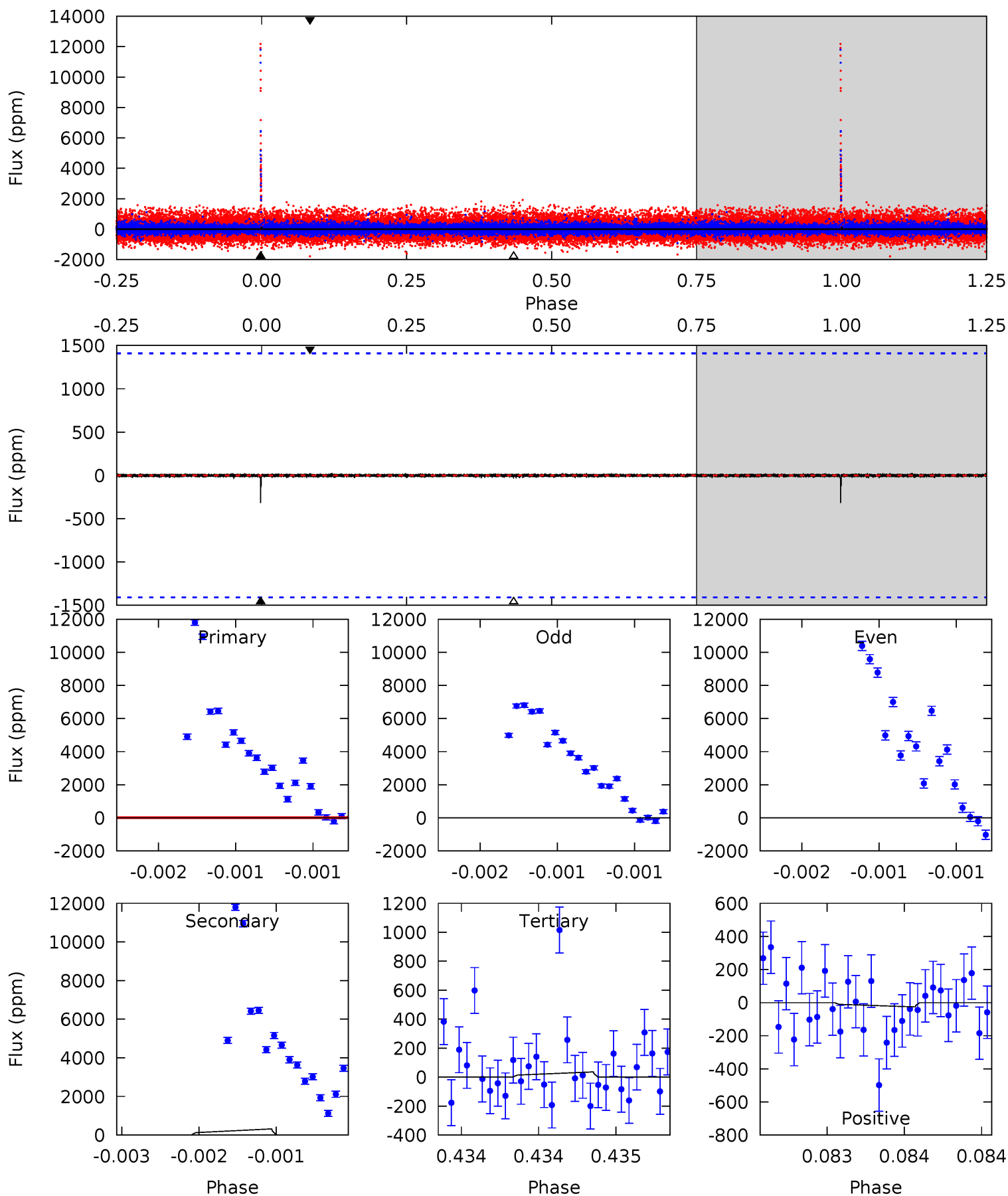
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.58	10.9	8.72	12.0	5.43	3.26	2.35	-4.14	-7.37	2.13	-1.10	3.65	0	0.52	0



Alt Model-Shift Uniqueness Test

006507888-06, P = 468.991069 Days, E = 173.209962 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.52	1.25	0.14	0.10	5.50	3.37	0.02	0.38	0.42	1.11	1.14	0.26	1.00	0.08	0.20



Stellar Parameters For KIC 006507888

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	3949^{+47}_{-47}	$4.692^{+0.026}_{-0.014}$	$-0.100^{+0.100}_{-0.100}$	$0.559^{+0.018}_{-0.024}$	$0.561^{+0.023}_{-0.019}$	$4.523^{+0.461}_{-0.283}$
	+1%/-1%	+1%/-0%	+100%/-100%	+3%/-4%	+4%/-3%	+10%/-6%
Source	PHO2	PHO2	PHO2	DSEP		

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

Secondary Eclipse Parameters for KIC 006507888-06 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-1531 ± 141	$2.33^{+2.19}_{-1.45}$	184^{+3}_{-3}	3977^{+1950}_{-767}	$150923^{+881283}_{-110885}$
Alt.	-319 ± 256	$2.24^{+2.21}_{-1.51}$	184^{+3}_{-3}	3054^{+1354}_{-731}	$27100^{+234454}_{-23786}$

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{\text{obs}} \gg T_{\text{max}}$ AND $A_{\text{obs}} \gg 1.0$

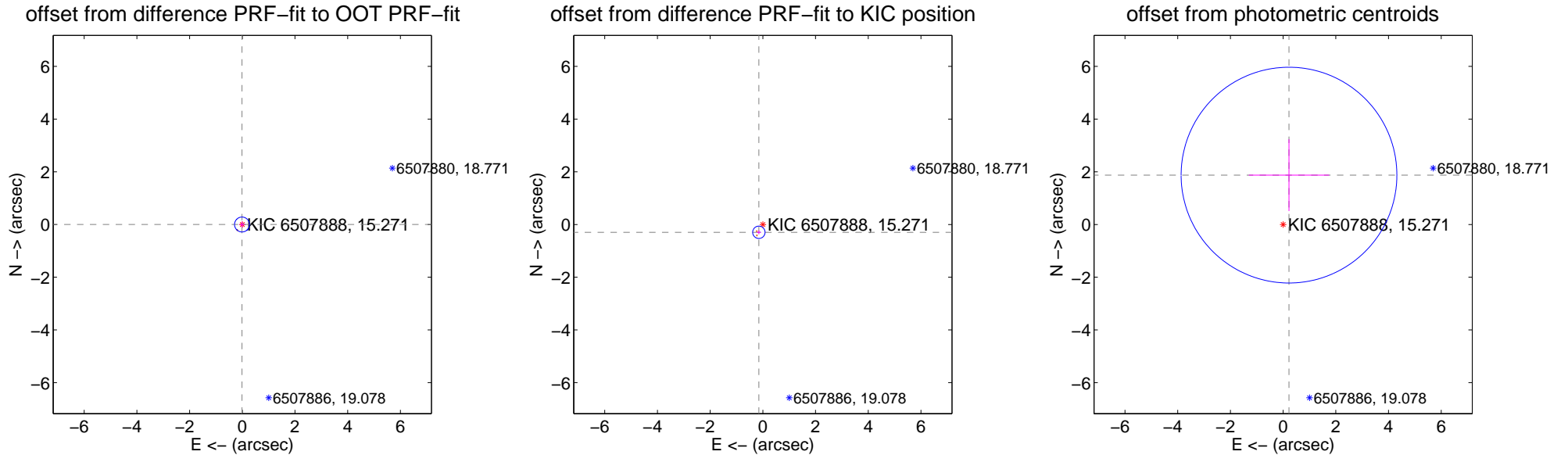
DV Centroid Data

Supplemental centroid analysis for 006507888-06. Kepler magnitude: 15.27. Transit SNR 2.23

There are 1 quarters with good PRF difference image offsets

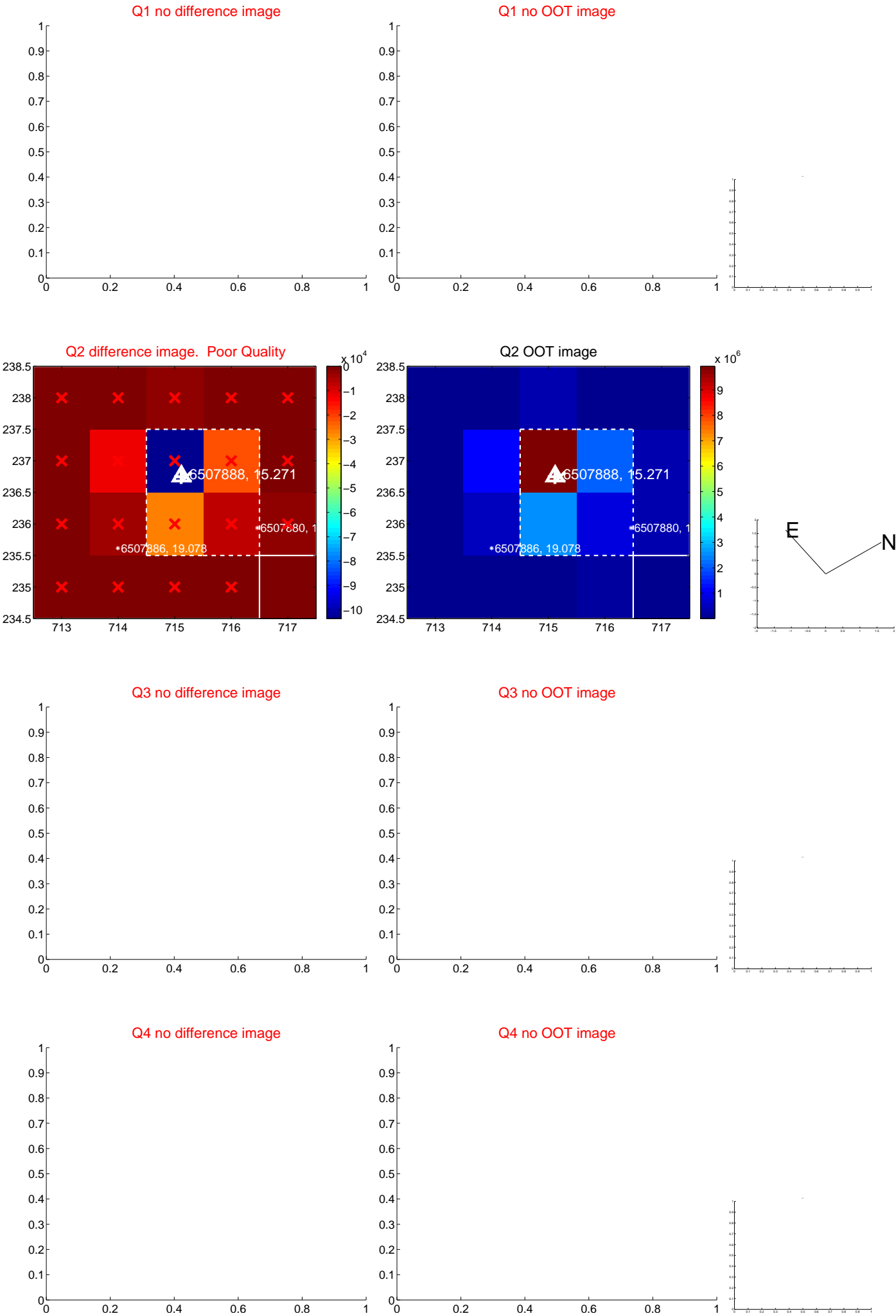
The direct PRF centroid is offset from the target star catalog position by about 0.34 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.011 ± 0.094	0.12	0.011 ± 0.095	0.000 ± 0.105
PRF-fit source offset from KIC position	0.332 ± 0.078	4.25	0.151 ± 0.084	-0.296 ± 0.077
photometric centroid source offset	1.89 ± 1.36	1.38	-0.22 ± 1.53	1.87 ± 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.

Q5 no difference image



Q5 no OOT image



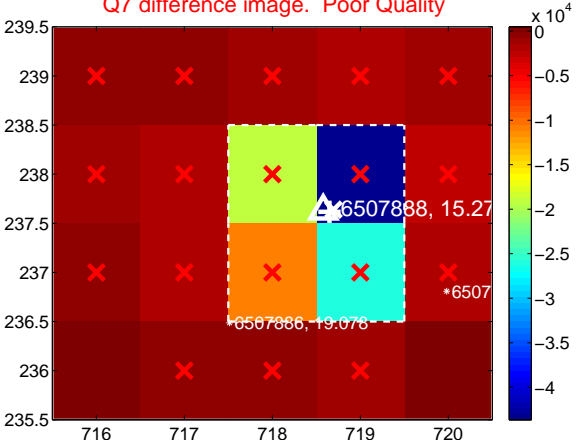
Q6 no difference image



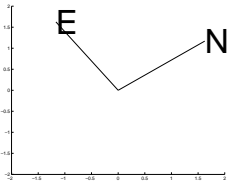
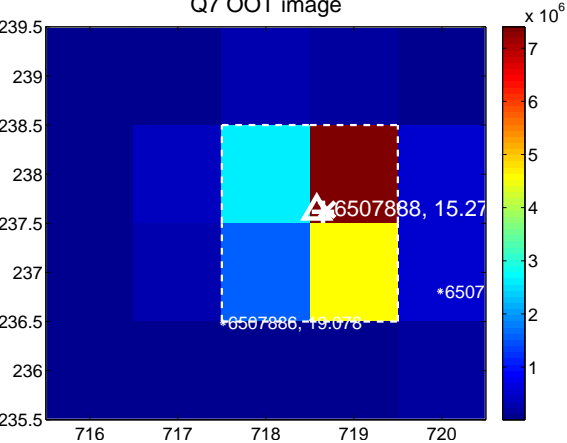
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



Q8 no difference image



Q8 no OOT image



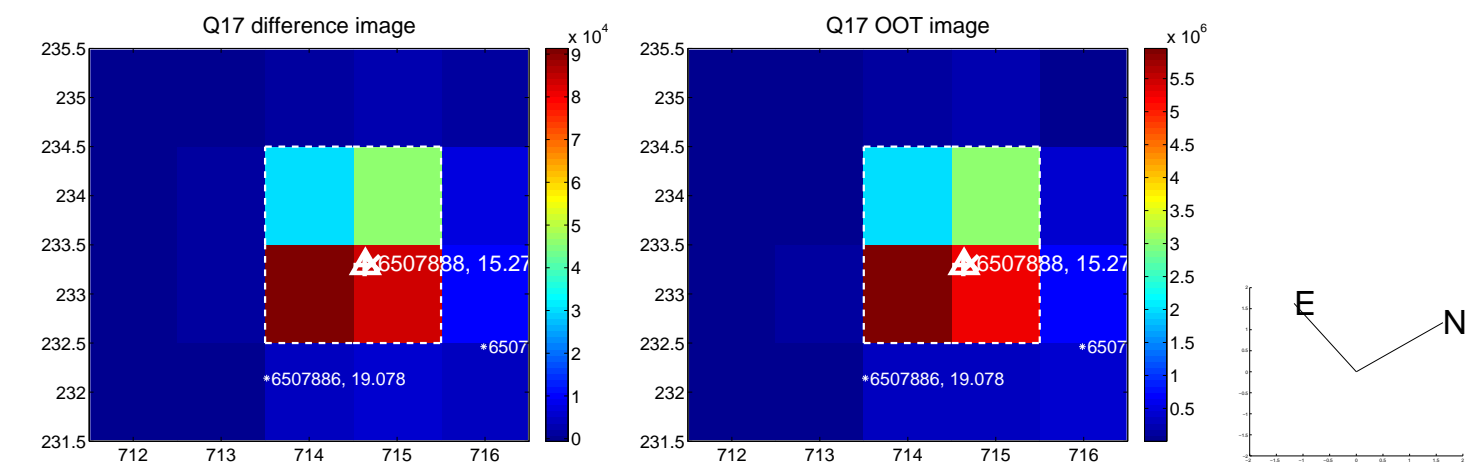
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



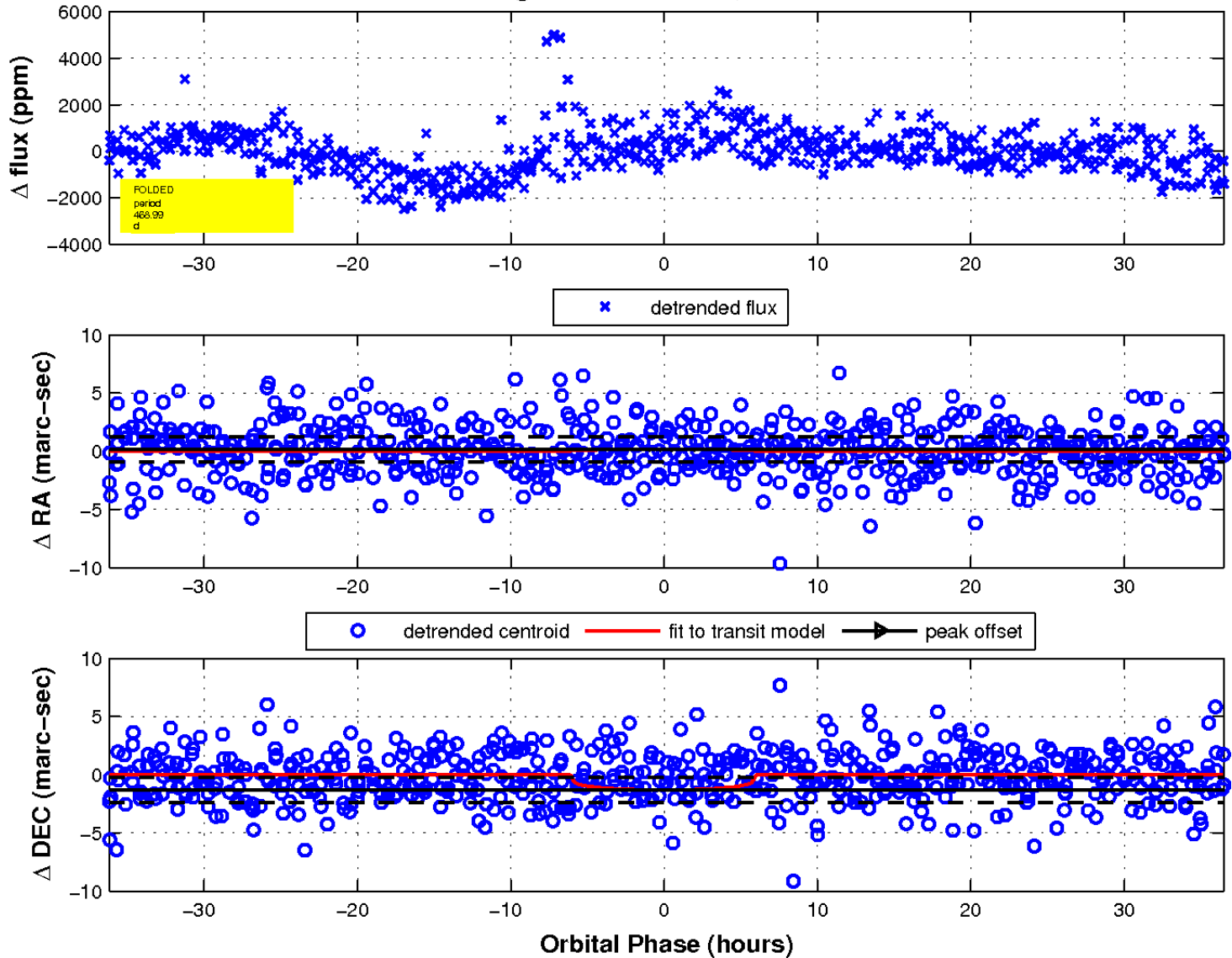
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



fluxWeightedCentroids, Planet 6 of 6



UKIRT Image

Declination

