

KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
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011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
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011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
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011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
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Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

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

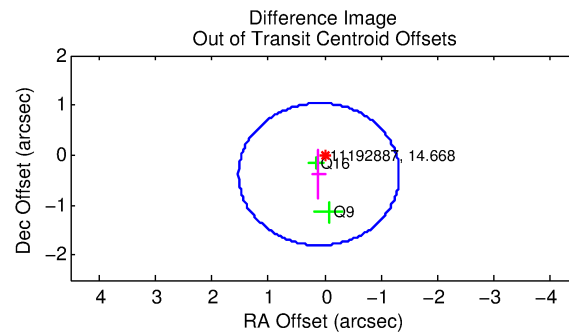
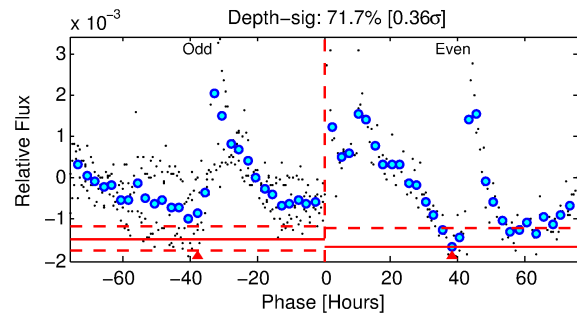
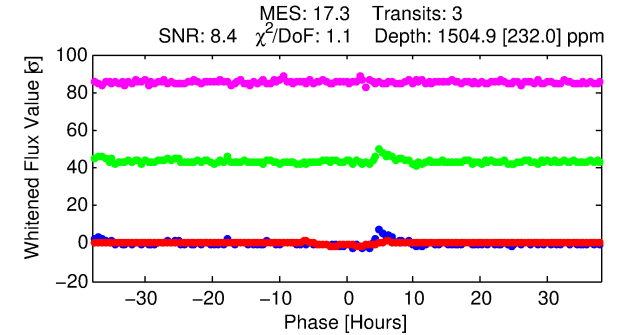
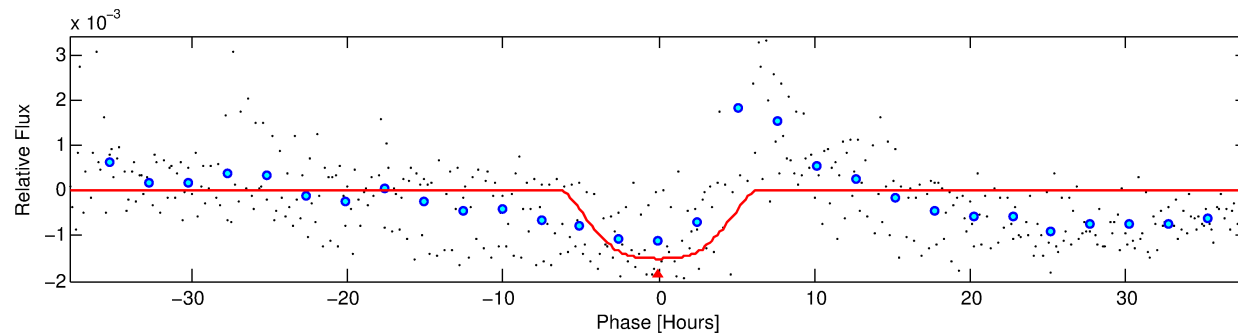
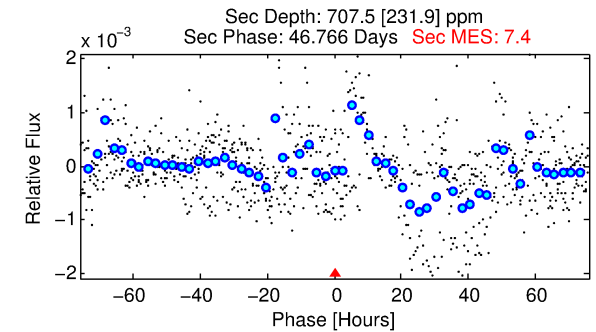
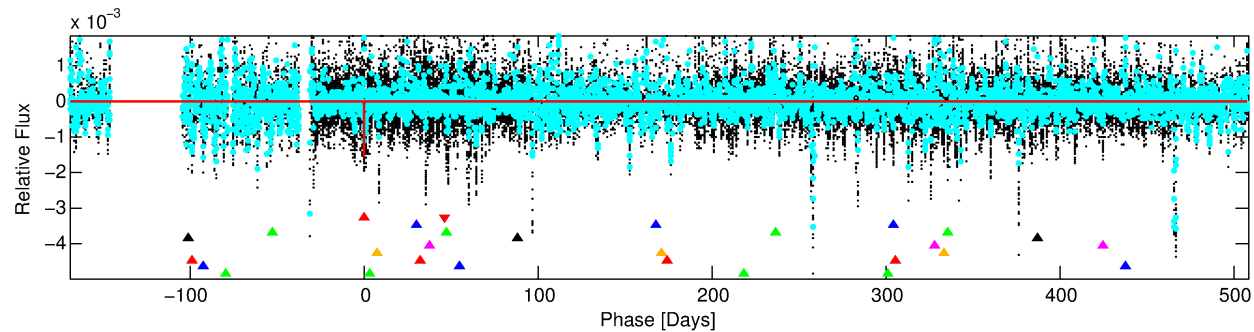
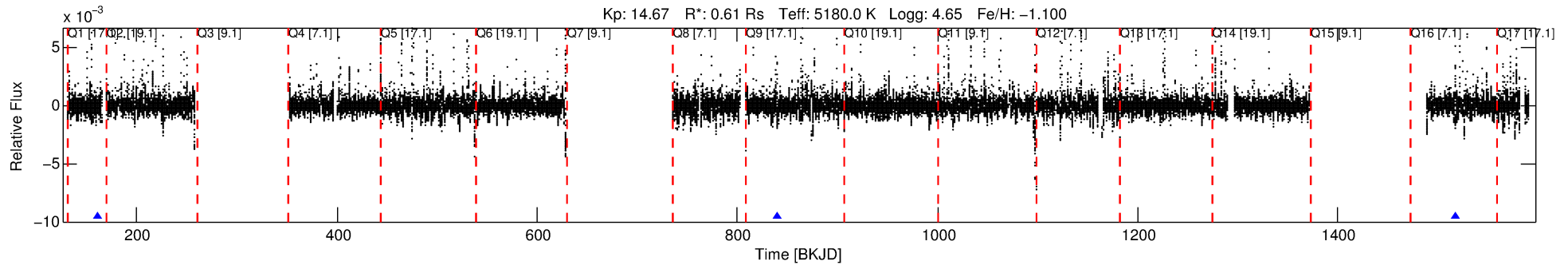
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-01

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 1 of 9 Period: 677.828 d



DV Fit Results:

Period = 677.82813 [0.01388] d
Epoch = 161.7204 [0.0191] BKJD
Rp/R* = 0.0450 [0.0040]
a/R* = 184.20 [20.98]
b = 0.94 [0.02]
Seff = 0.15 [0.02]
Teq = 158 [7] K
Rp = 3.01 [0.34] Re
a = 1.2806 [0.0847] AU
Ag = 70587.44 [27381.31] [2.58 σ]
Teffp = 3984 [395] K [9.69 σ]

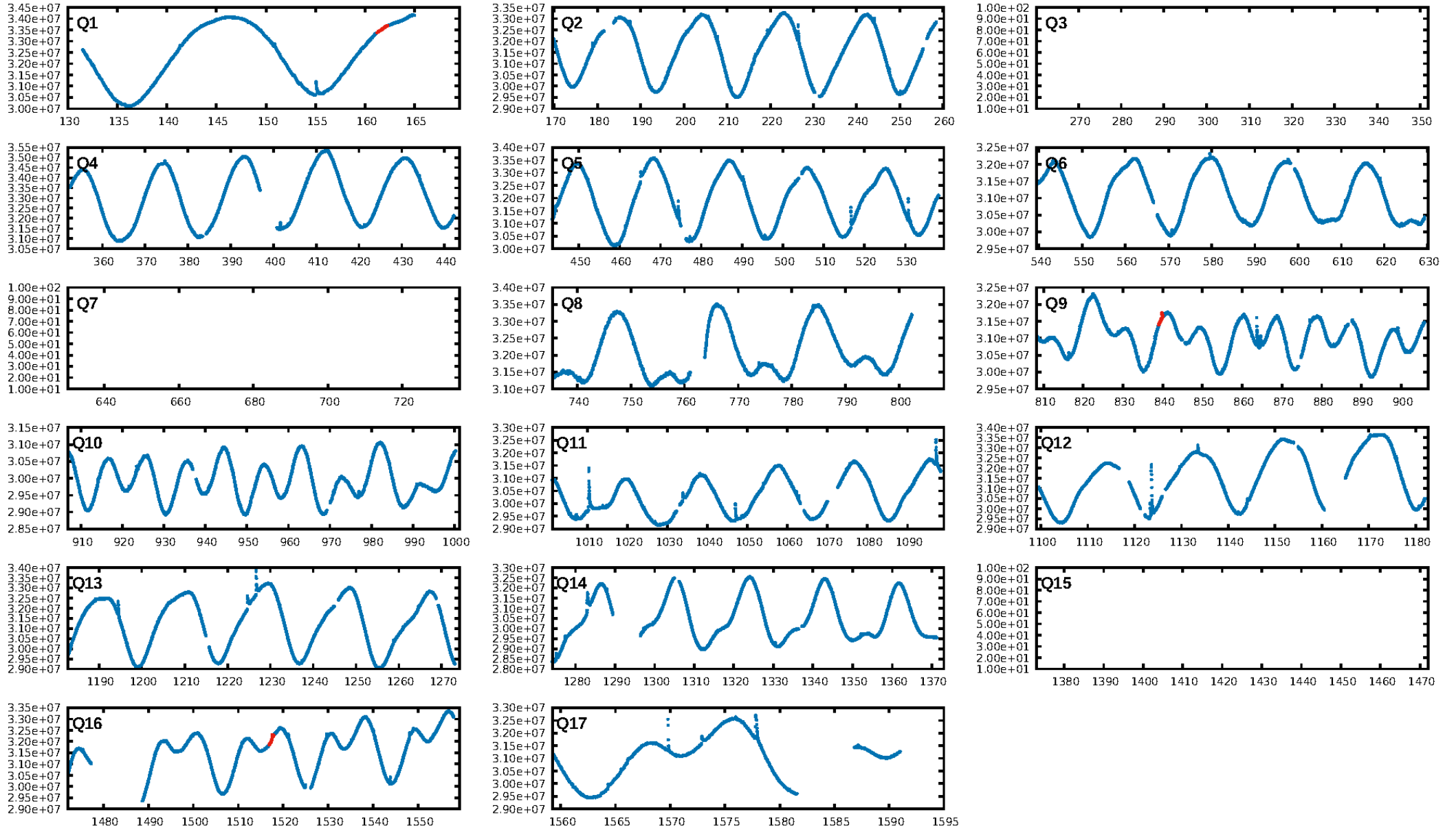
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [234.84 σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 1.4%
ModelChiSquareGof-sig: 95.5%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: -2.309
Centroid-sig: 45.2%
Centroid-so: 0.520 arcsec [0.93 σ]
OotOffset-rm: 0.396 arcsec [0.83 σ]
KicOffset-rm: 0.324 arcsec [0.70 σ]
OotOffset-st: 0/0/1/1 [2]
KicOffset-st: 0/0/1/1 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

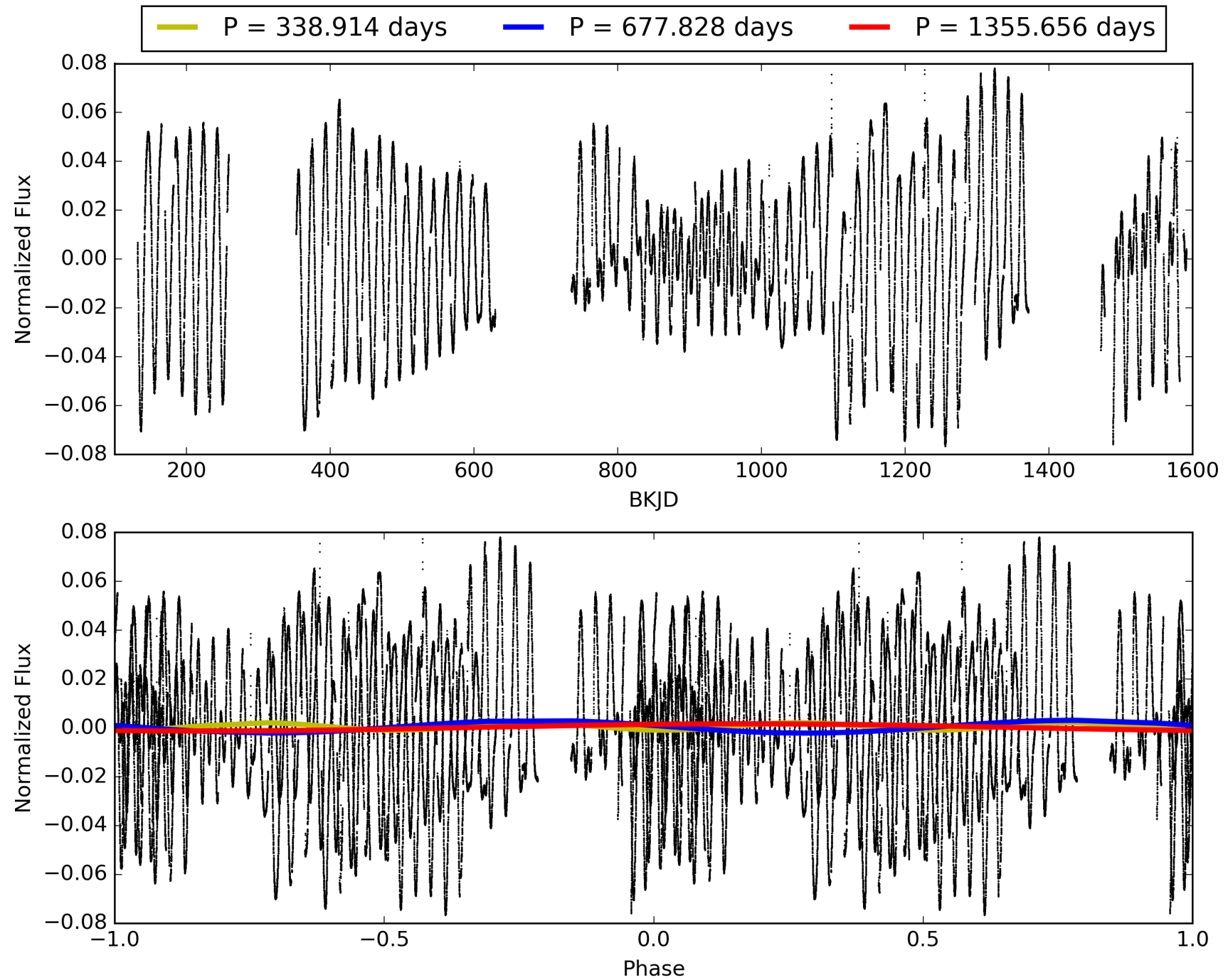
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:42:02 Z

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

TCE 011192887-01, PDC Light Curves

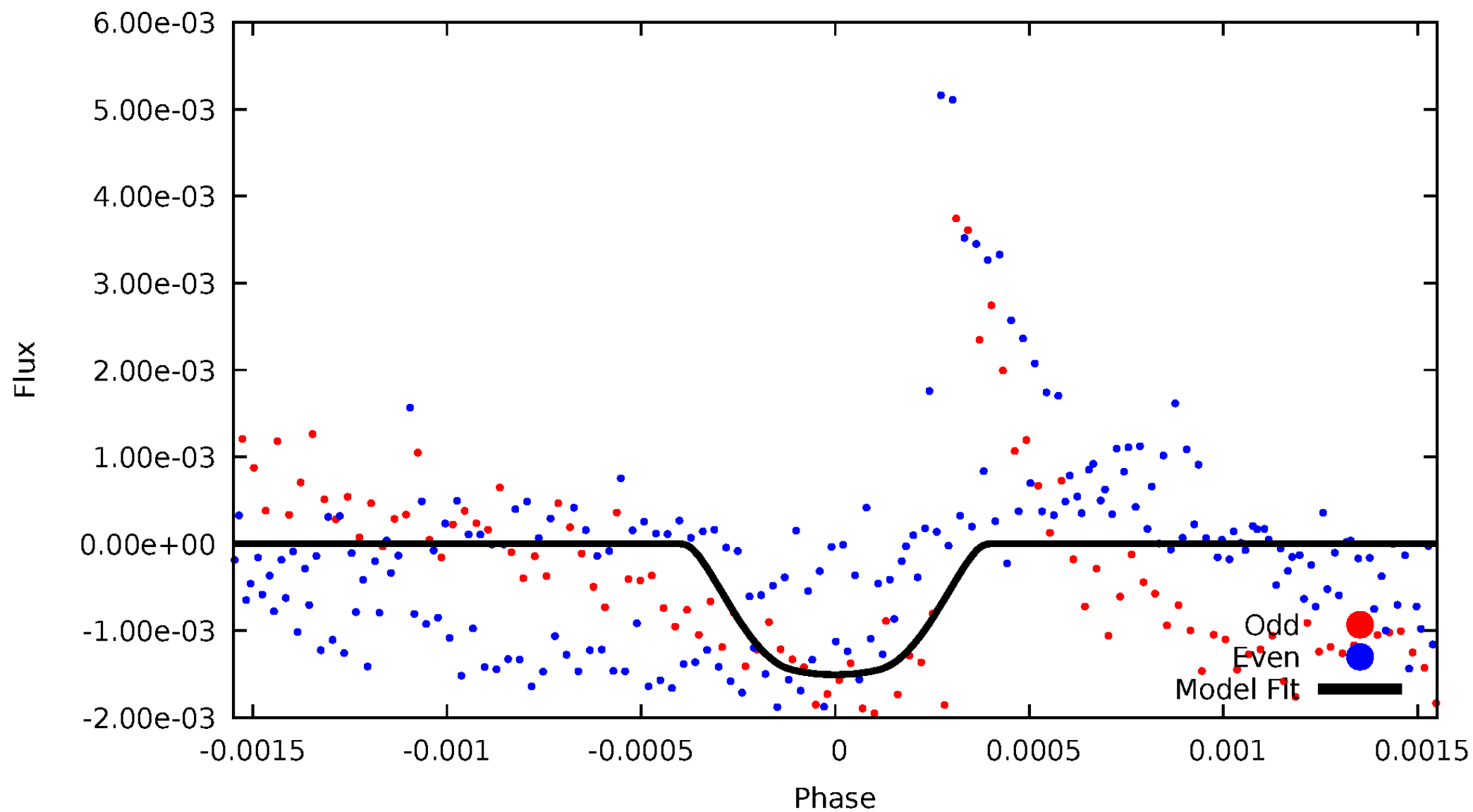


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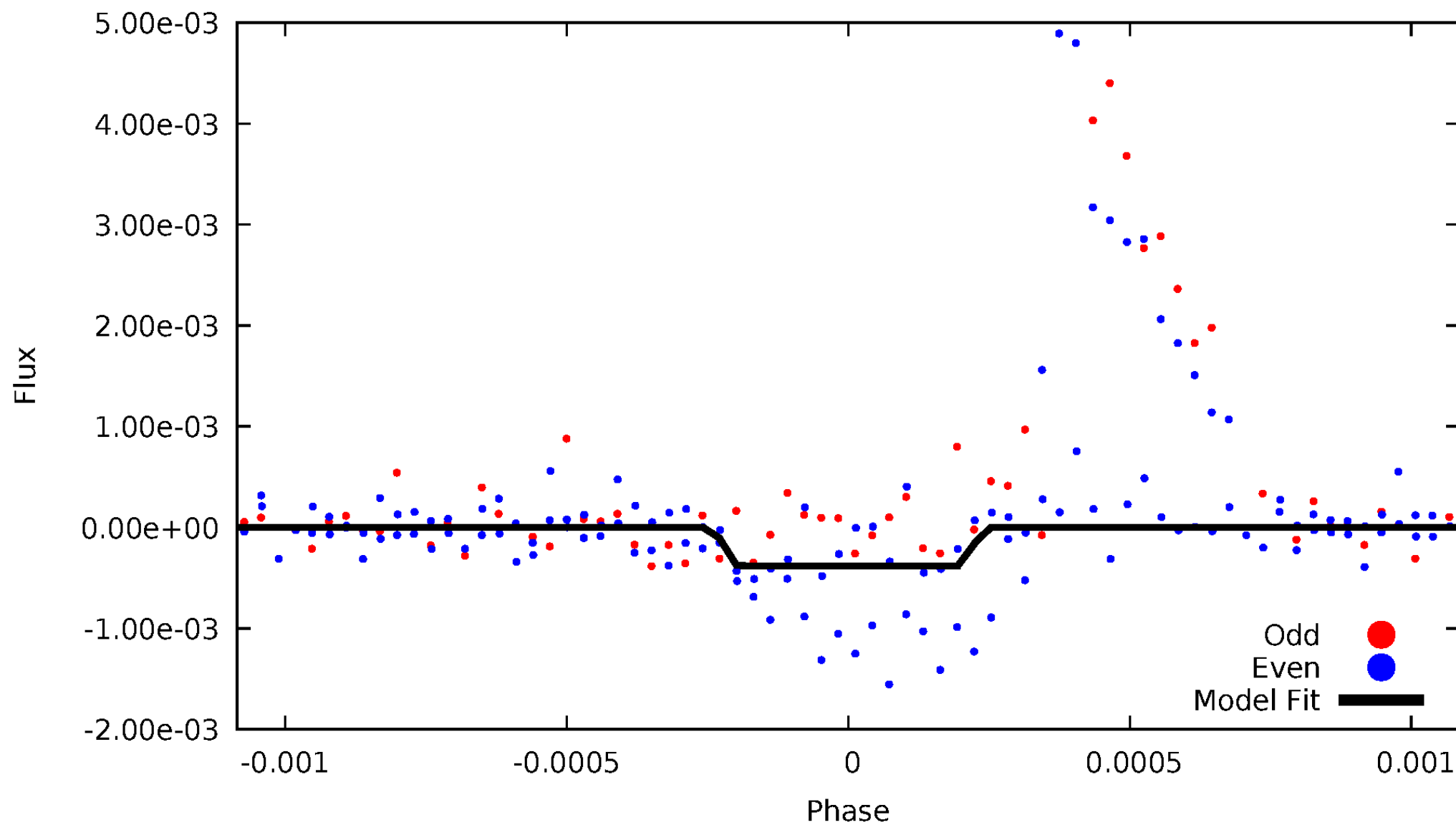
DV Odd/Even

TCE 011192887-01



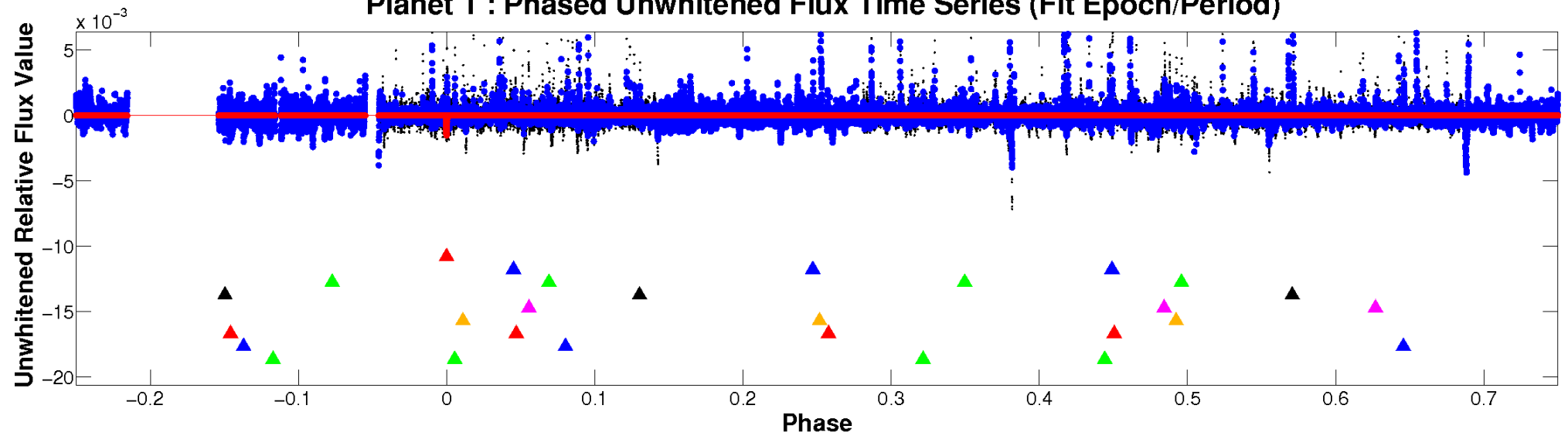
ALT Odd/Even

TCE 011192887-01

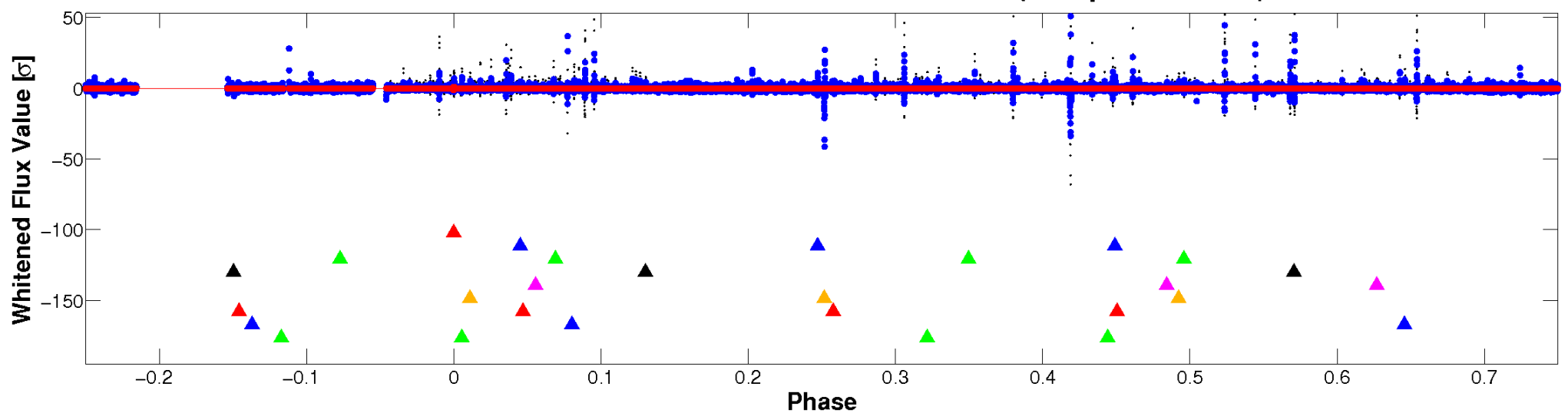


Non-Whitened Vs. Whitened Light Curve

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

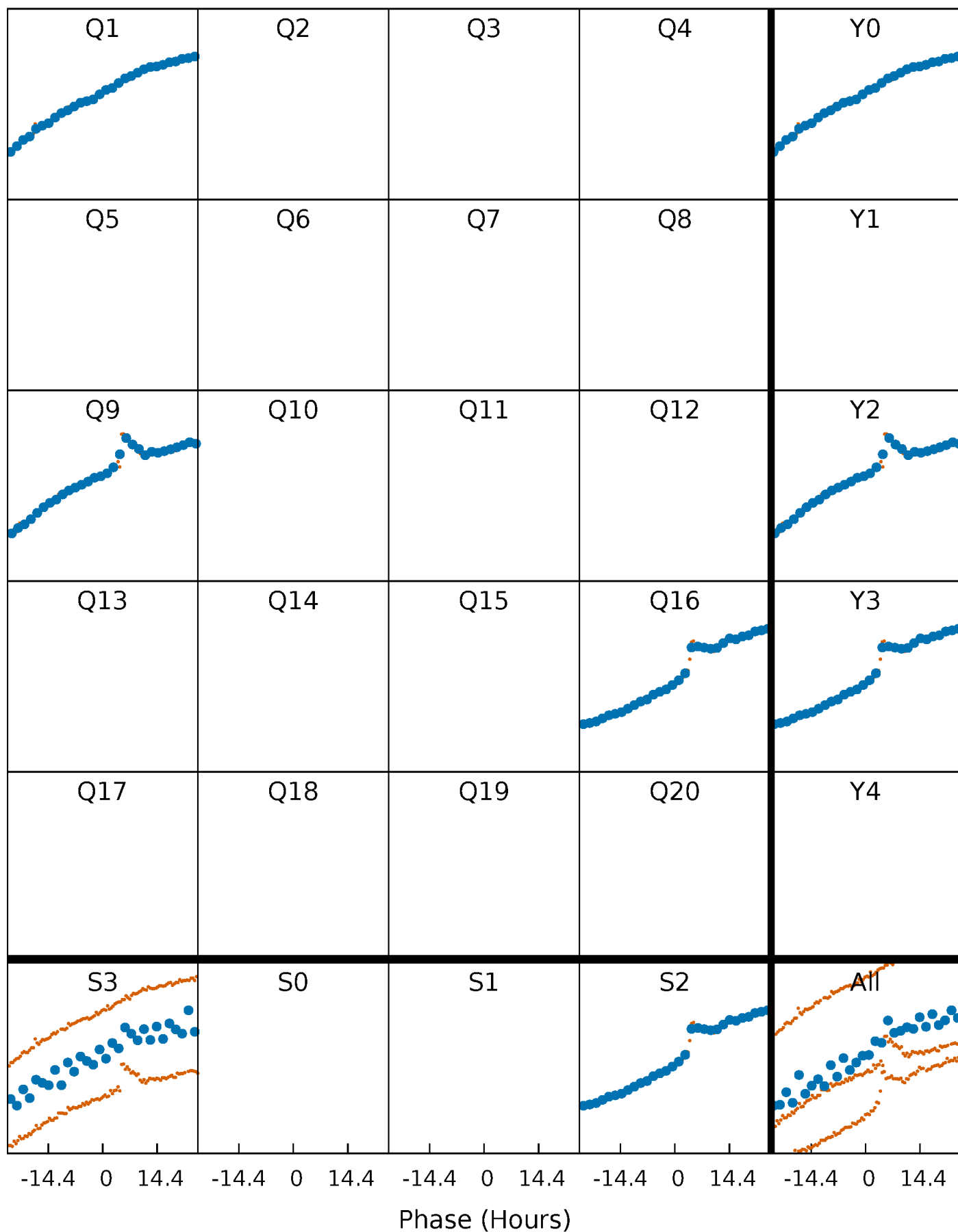


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



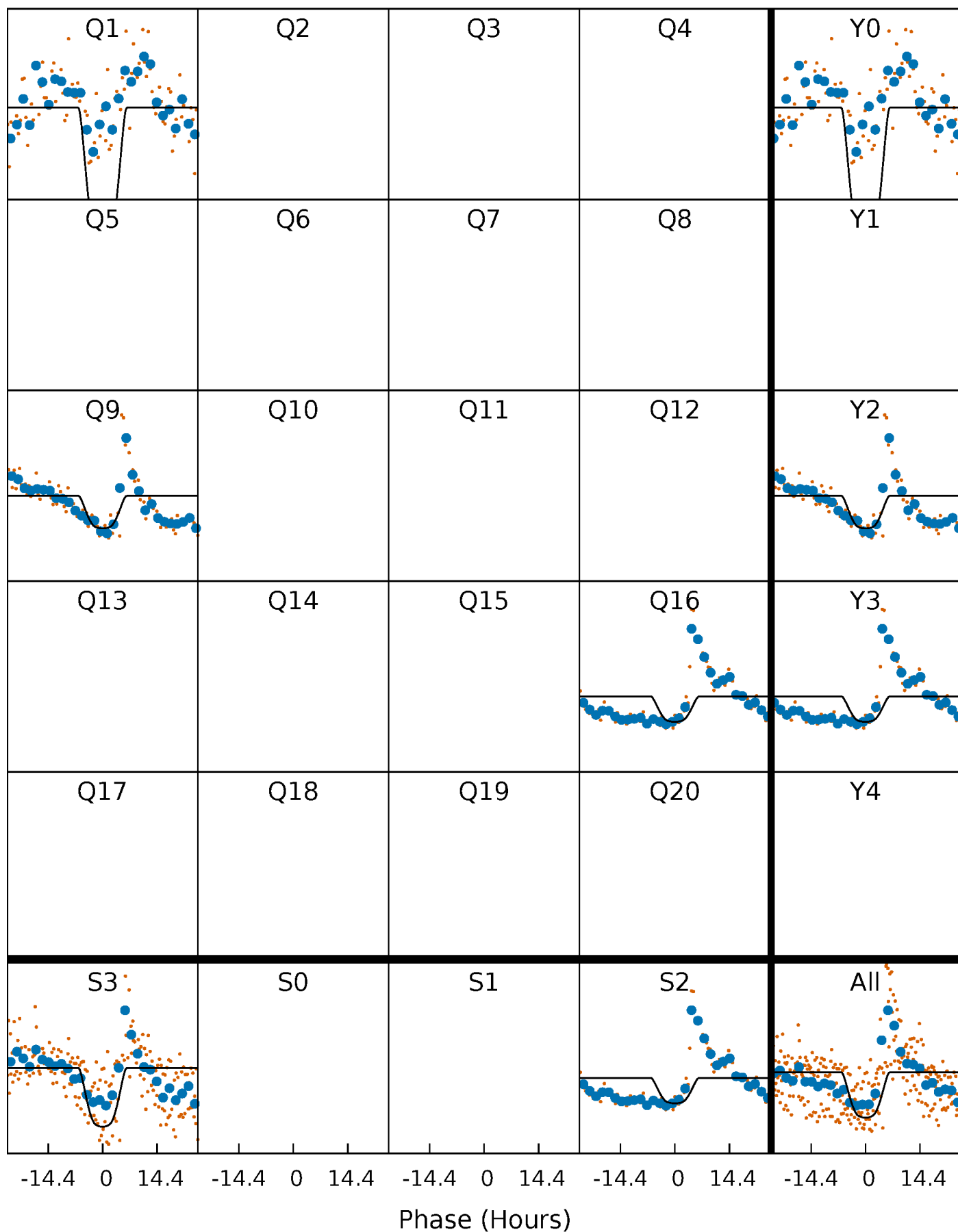
PDC Quarter-Phased Transit Curves

TCE 011192887-01 P=677.828129 Days $T_0=161.720430$ (BKJD)



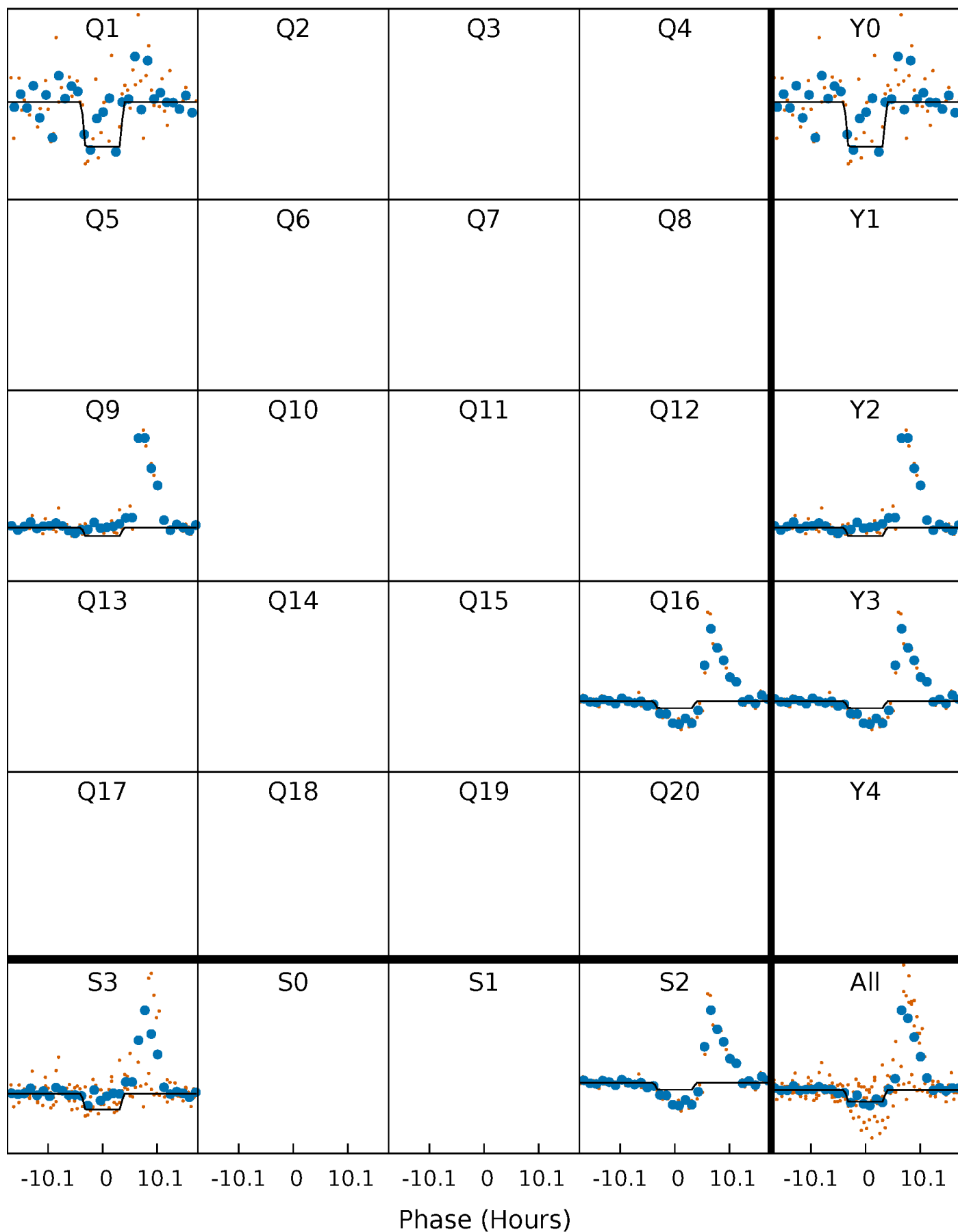
DV Quarter-Phased Transit Curves

TCE 011192887-01 P=677.828129 Days $T_0=161.720430$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

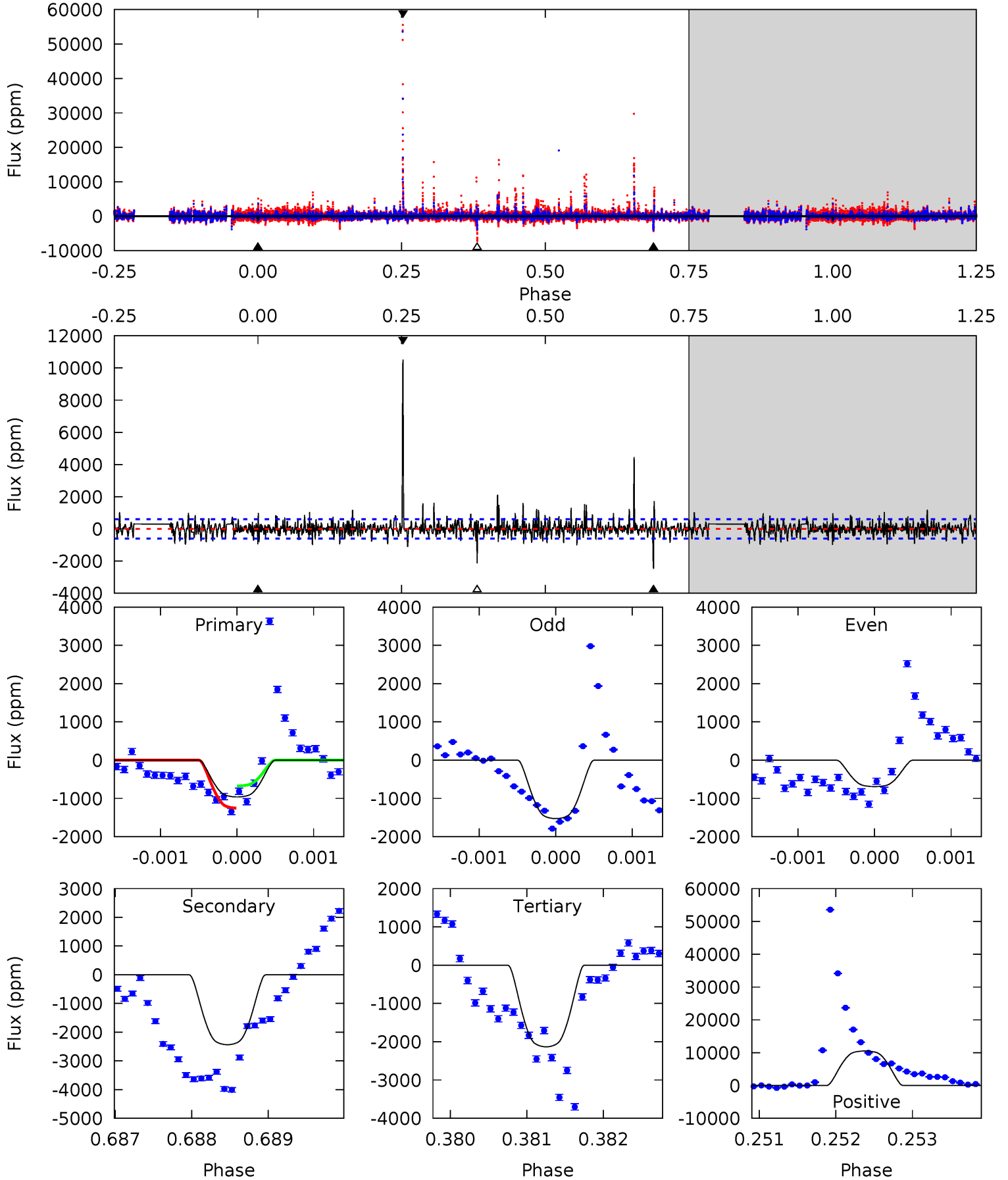
TCE 011192887-01 P=677.801619 Days $T_0=161.704693$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-01, P = 677.828129 Days, E = 161.720430 Days

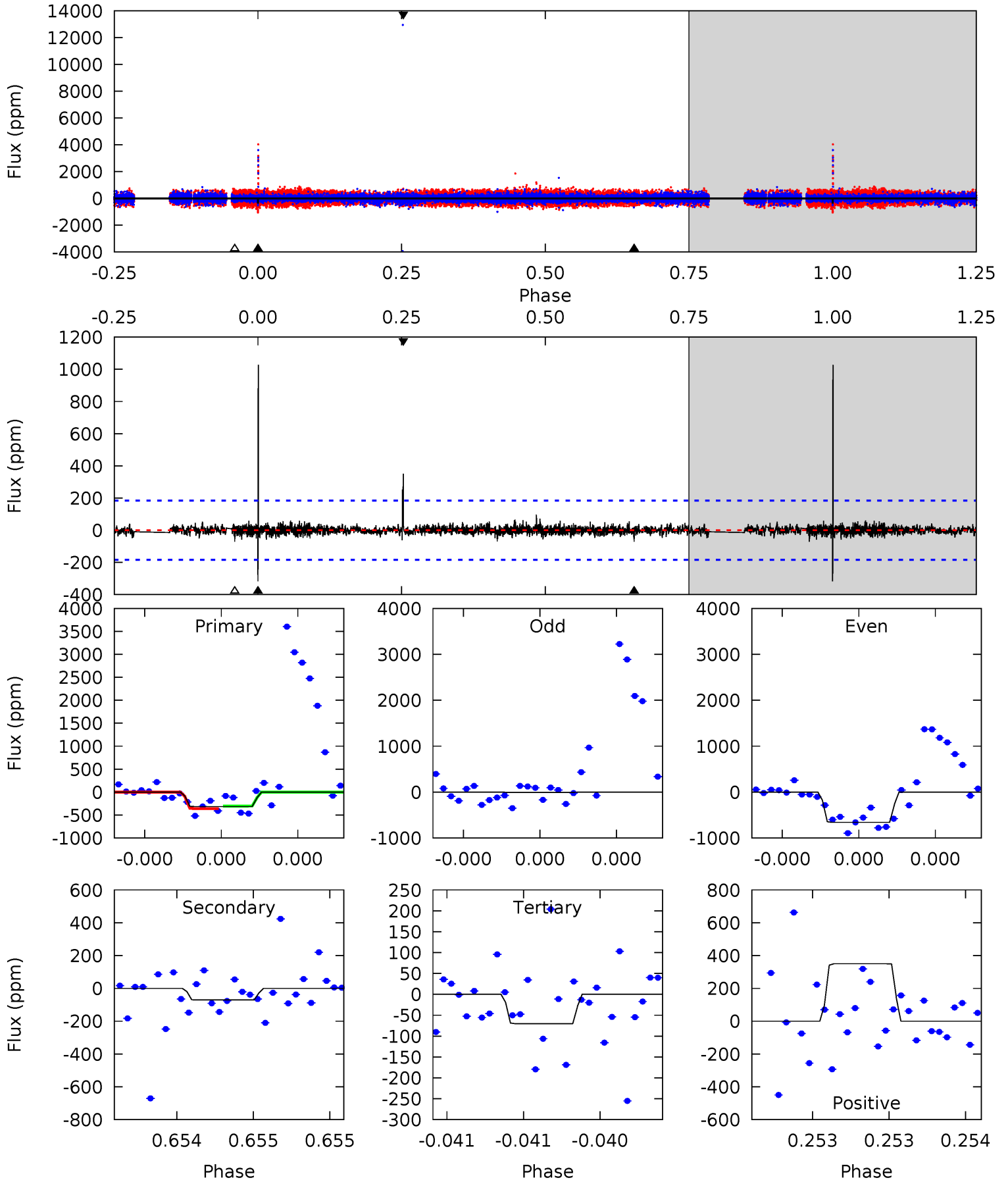
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.79	22.3	19.5	96.3	5.49	3.36	4.17	-10.7	-87.5	2.77	-74.0	2.60	0.92	0.81	2.74



Alt Model-Shift Uniqueness Test

011192887-01, P = 677.801619 Days, E = 161.704693 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.58	2.15	2.13	10.6	5.58	3.49	0.80	7.45	-1.02	0.02	-8.46	9.47	1.73	0.76	0.83



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2436 ± 109	$3.00^{+0.27}_{-0.30}$	220^{+8}_{-8}	5419^{+284}_{-287}	247935^{+56035}_{-41002}
Alt.	-71 ± 33	$1.31^{+0.27}_{-0.28}$	219^{+8}_{-8}	3750^{+410}_{-421}	38556^{+30211}_{-20268}

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

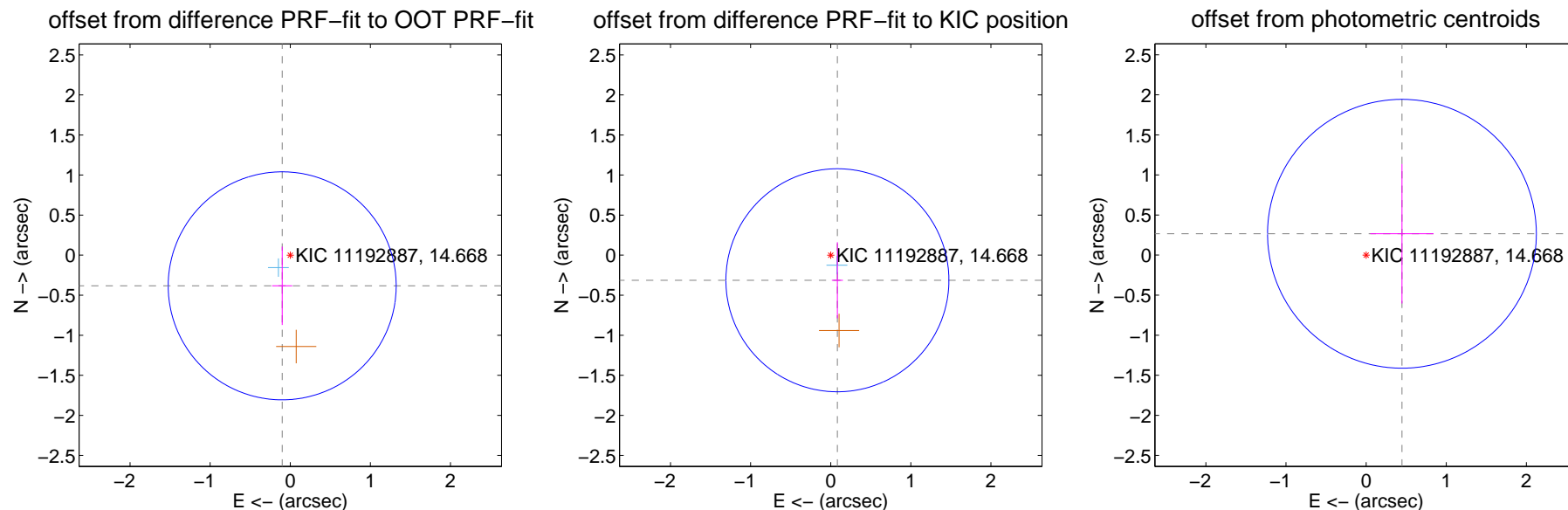
DV Centroid Data

Supplemental centroid analysis for 011192887-01. Kepler magnitude: 14.67. Transit SNR 8.42

There are 1 quarters with good PRF difference image offsets

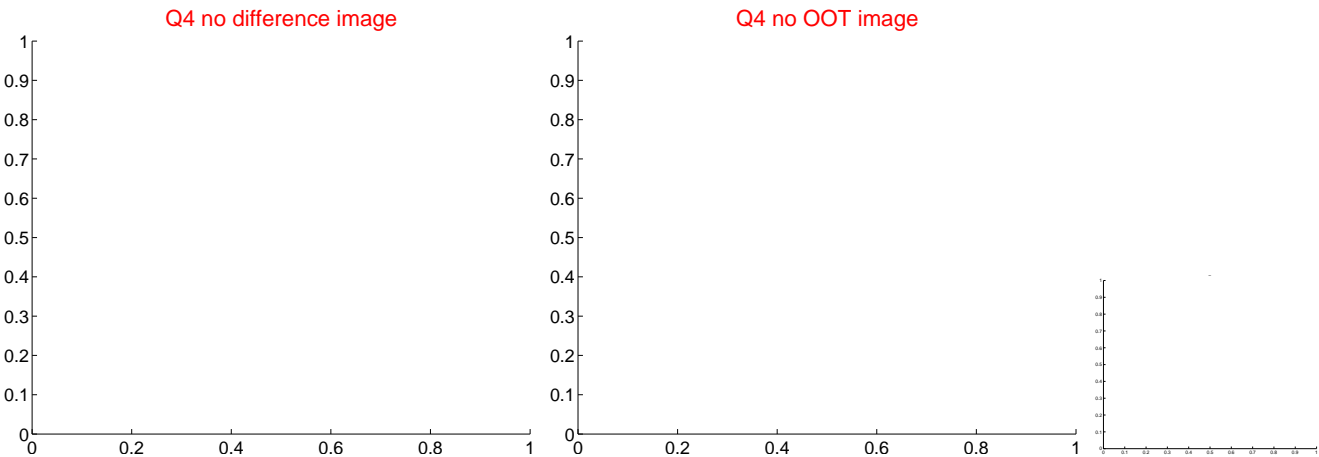
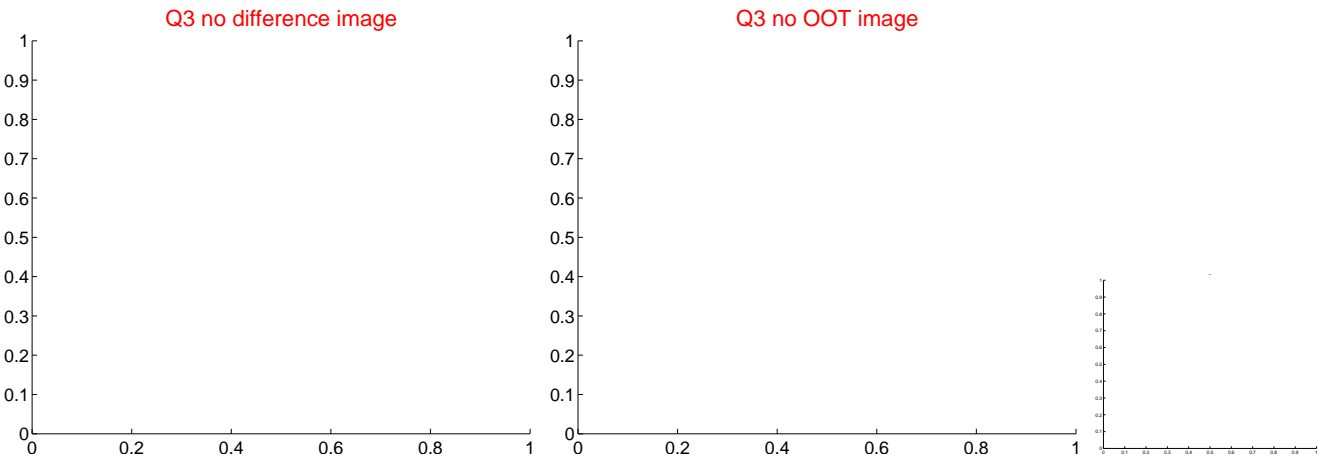
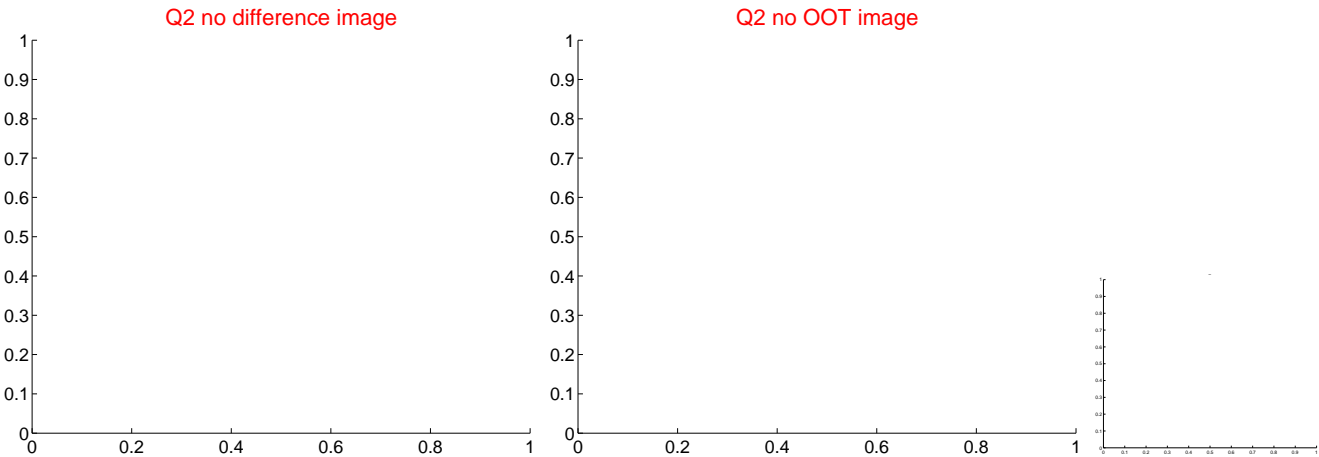
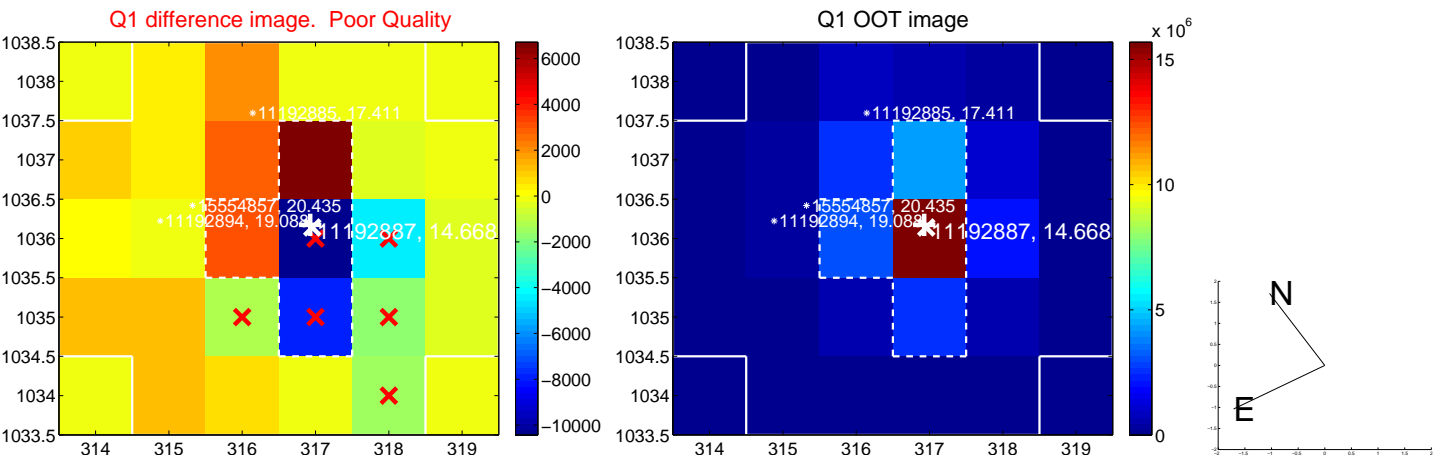
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.396 ± 0.474	0.83	0.101 ± 0.125	-0.383 ± 0.490
PRF-fit source offset from KIC position	0.324 ± 0.464	0.70	-0.083 ± 0.068	-0.314 ± 0.476
photometric centroid source offset	0.52 ± 0.56	0.93	-0.45 ± 0.39	0.27 ± 0.87

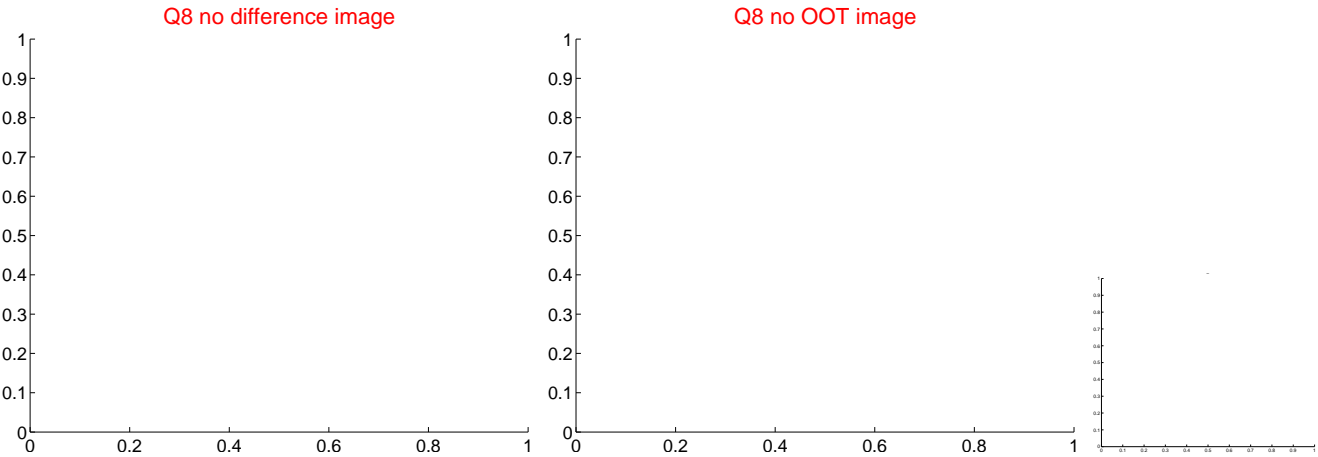
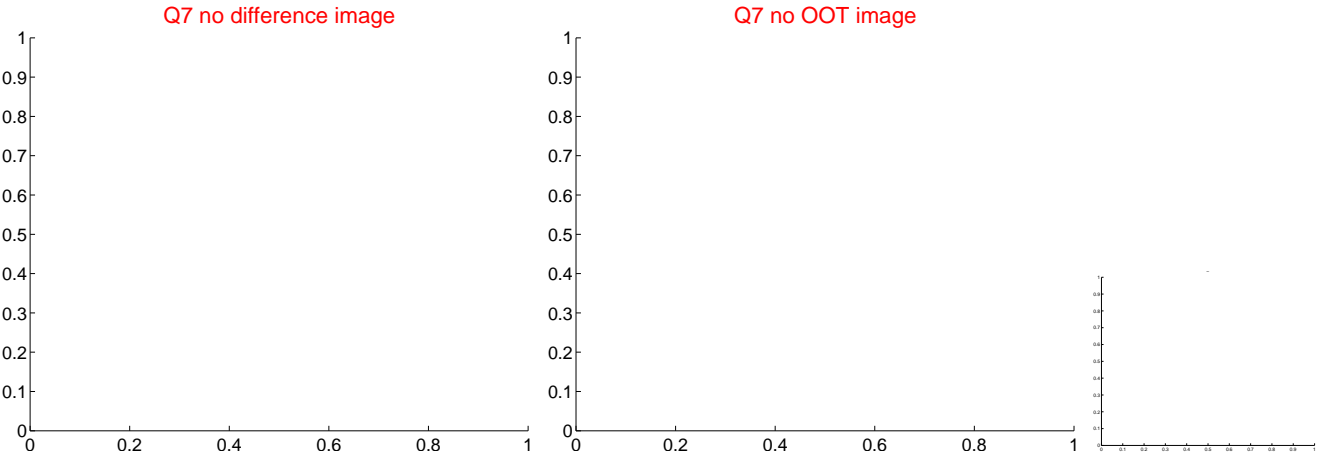
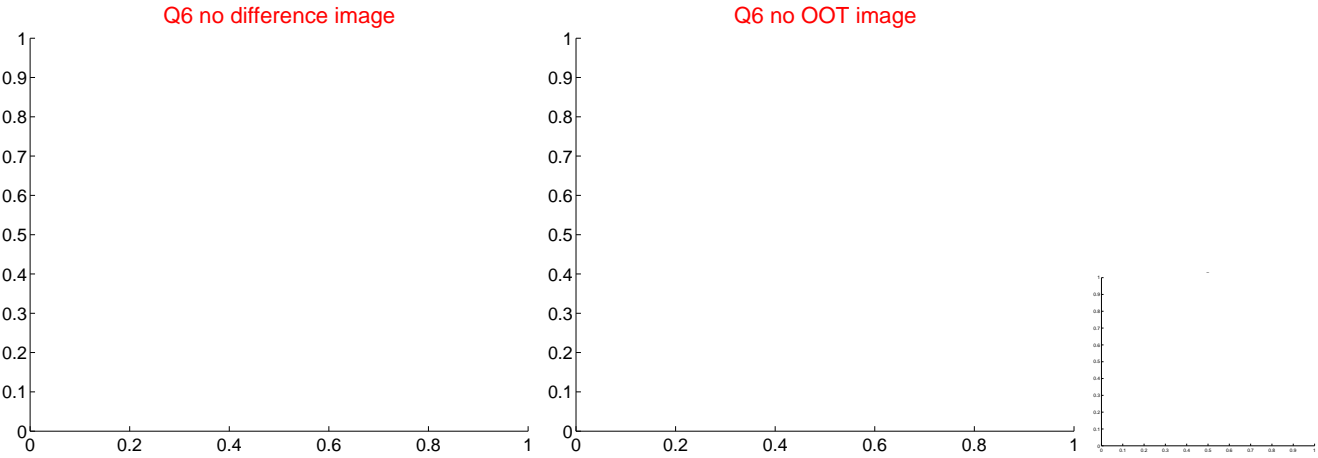
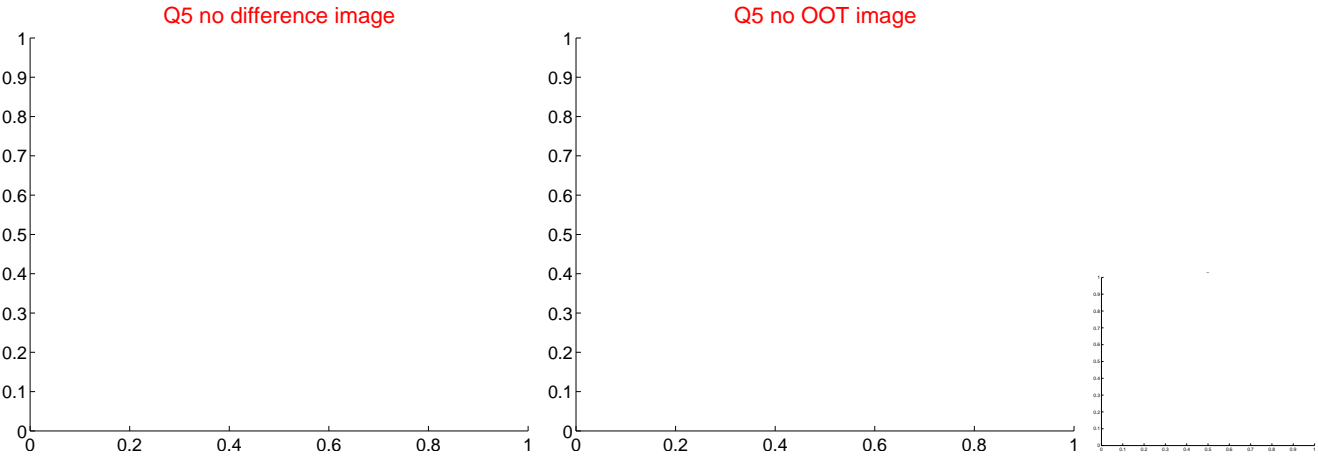


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

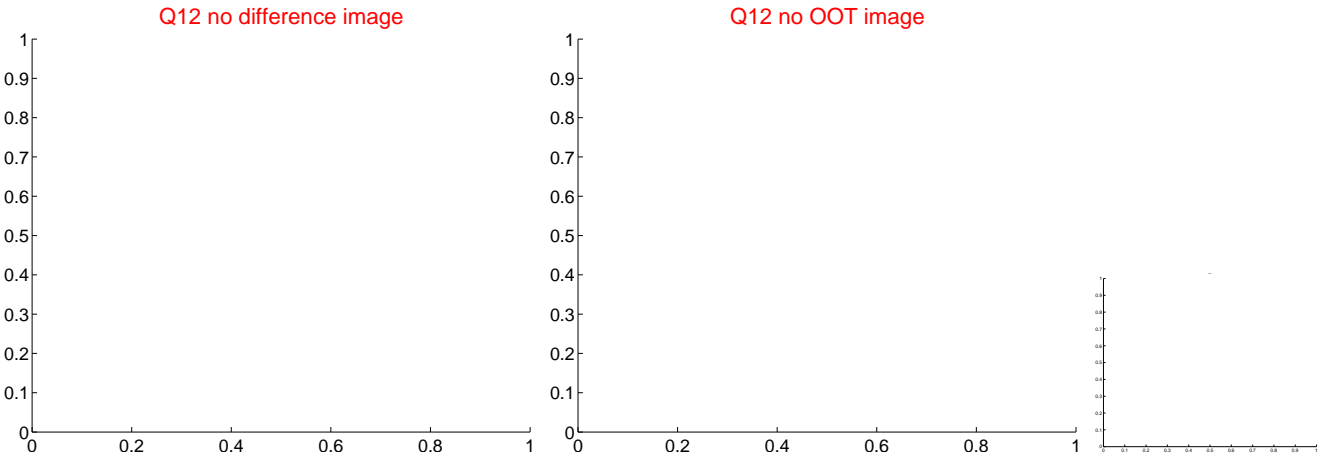
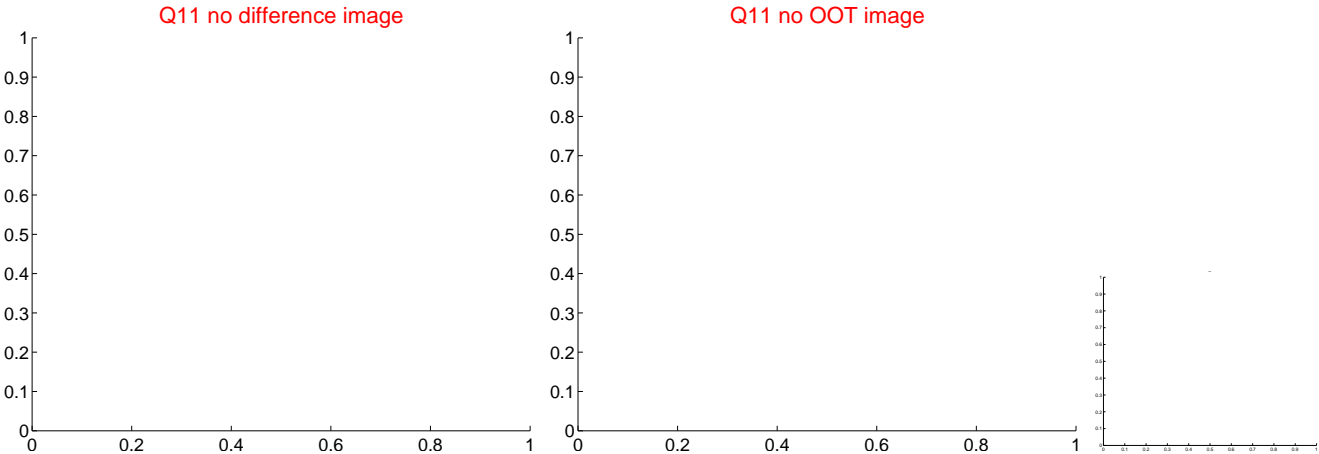
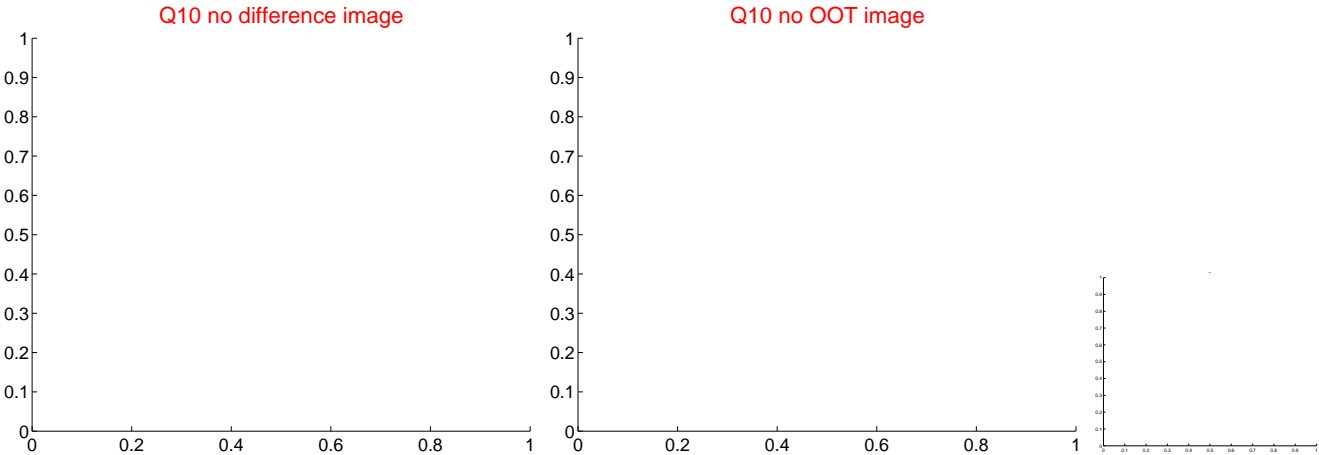
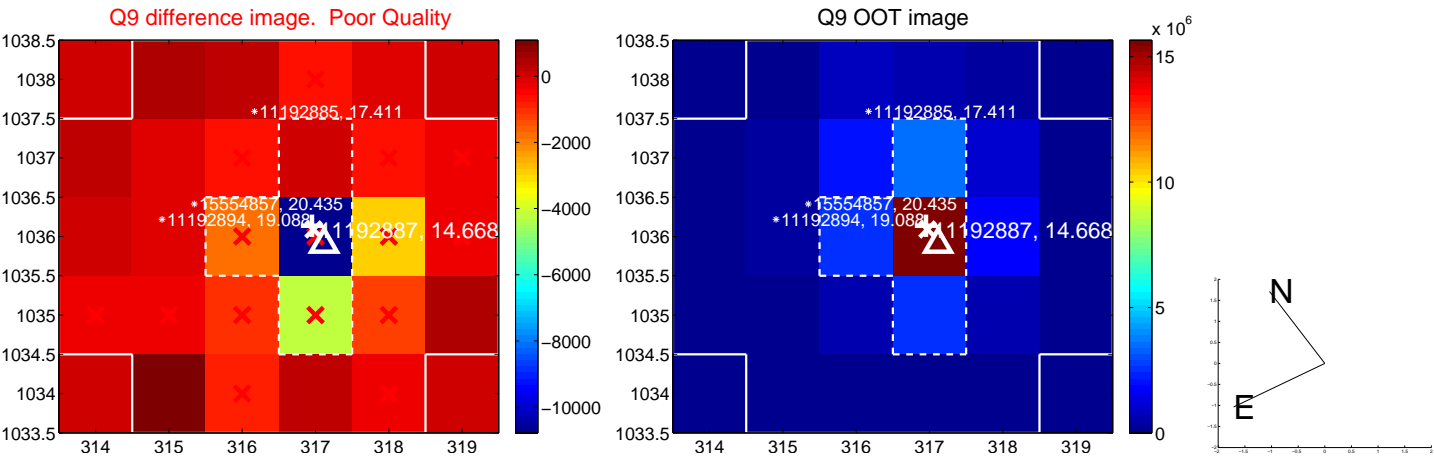
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



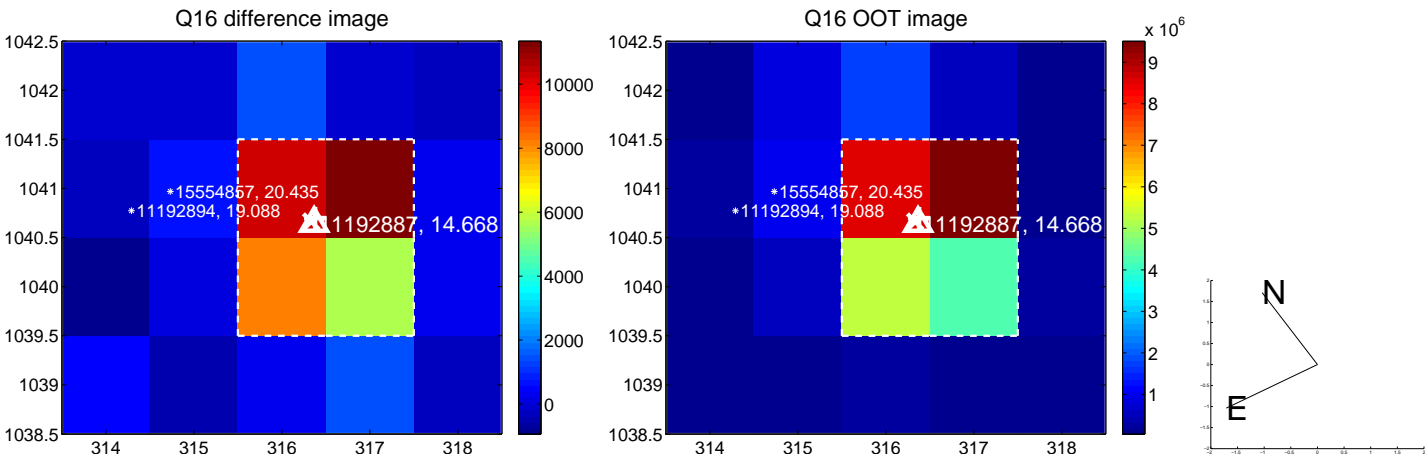
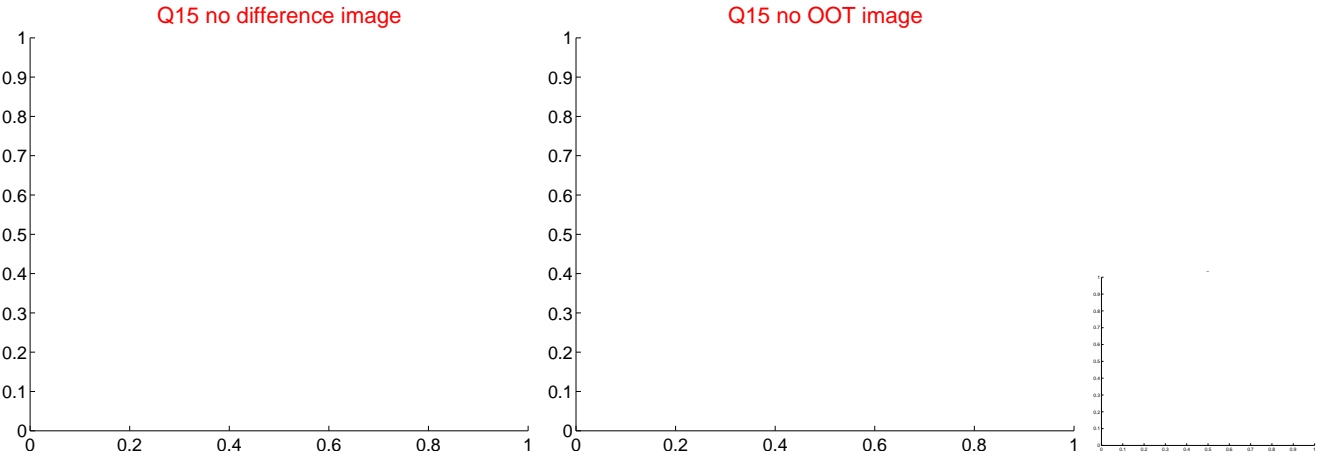
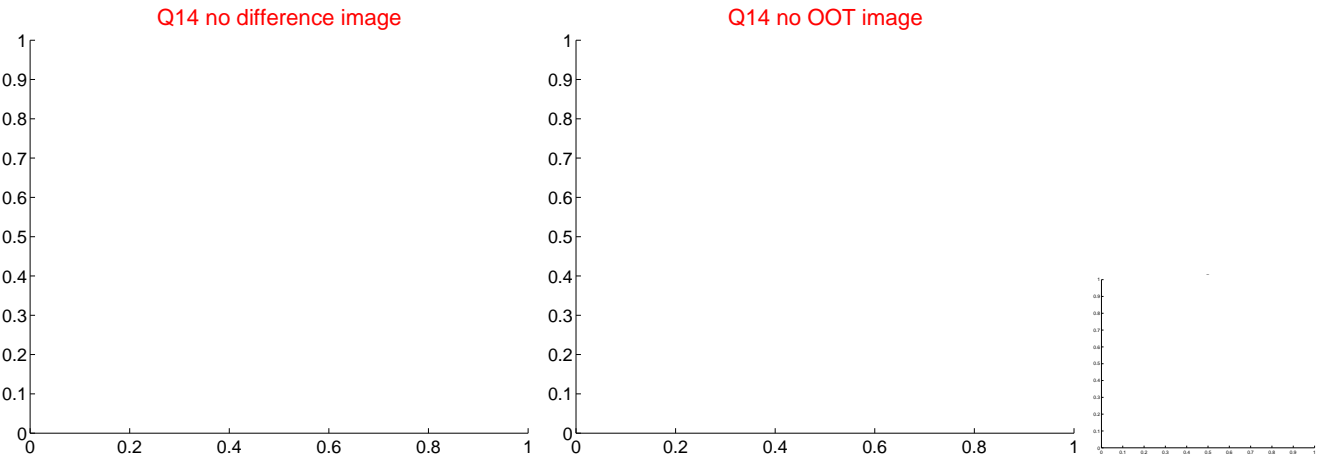
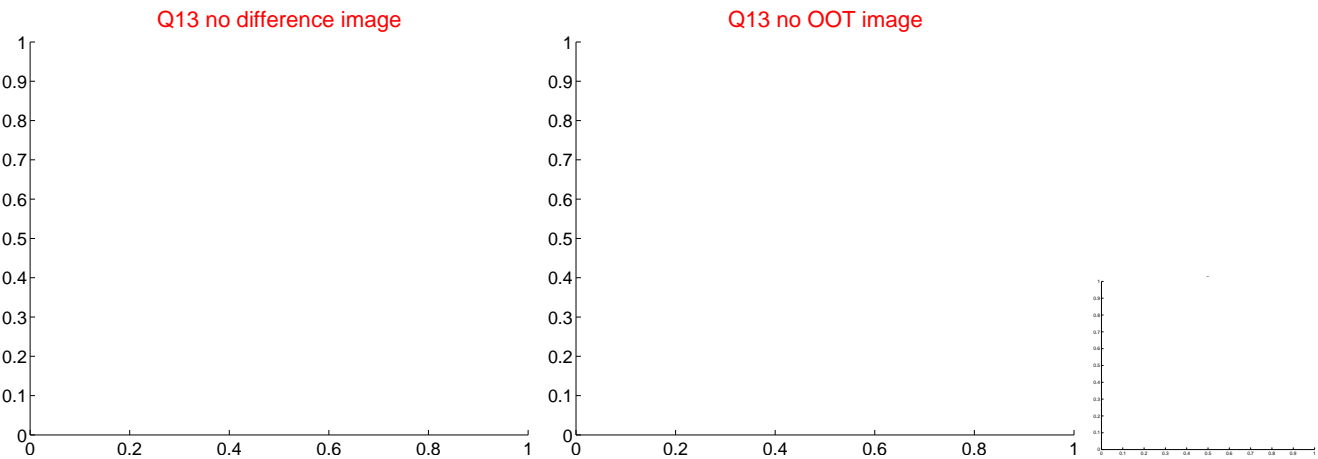
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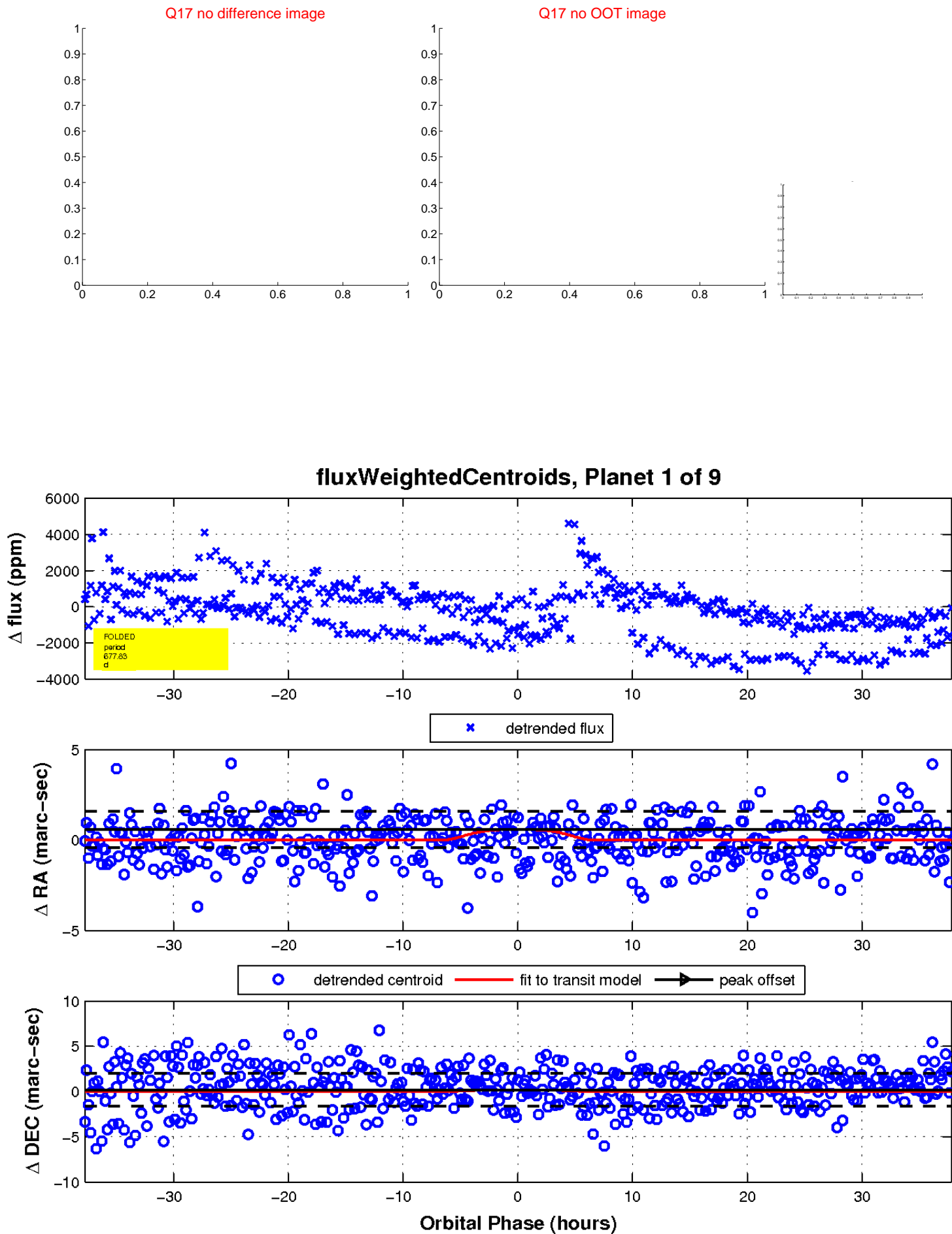
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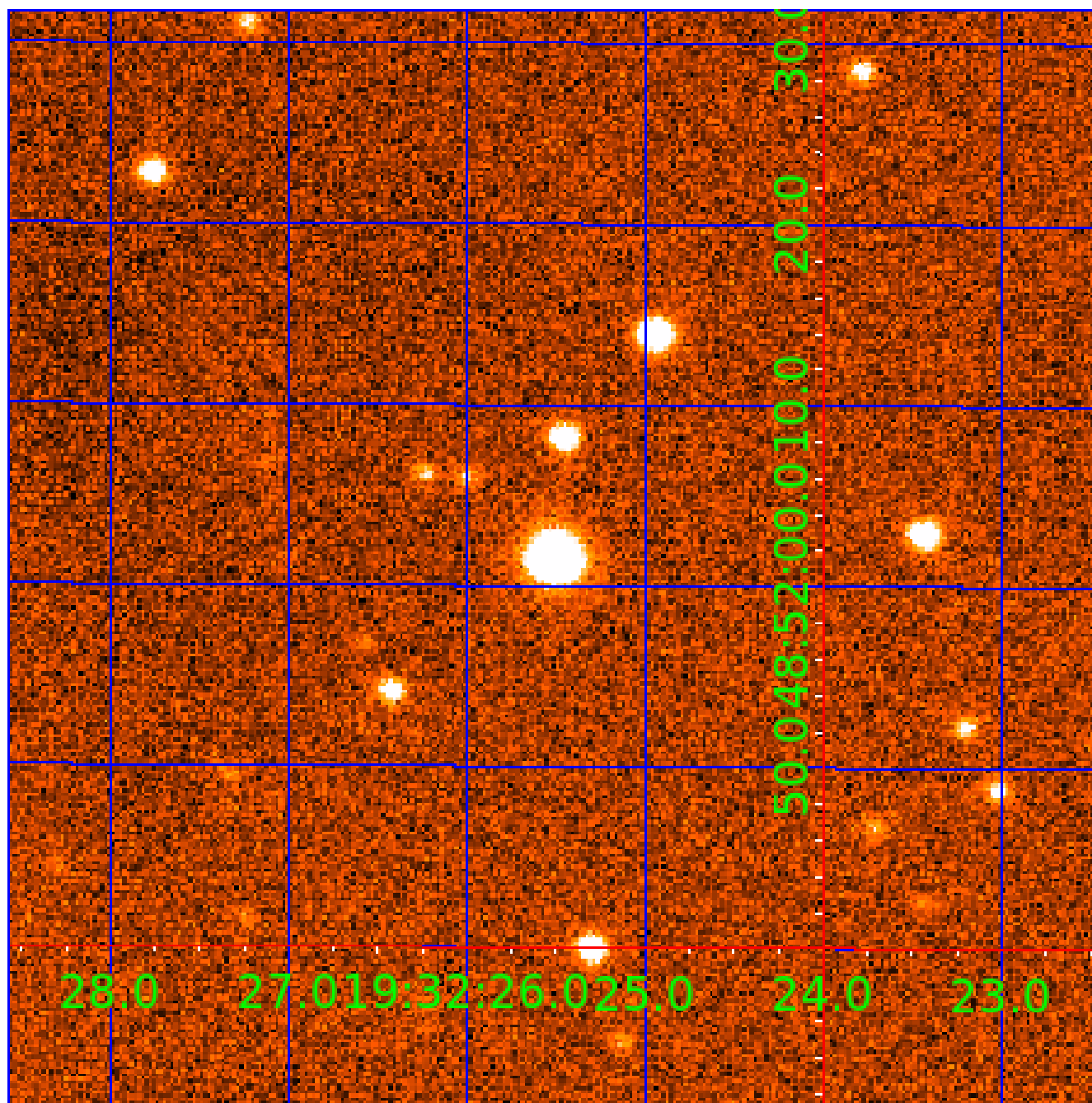


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UKIRT Image

Declination



KIC 011192887

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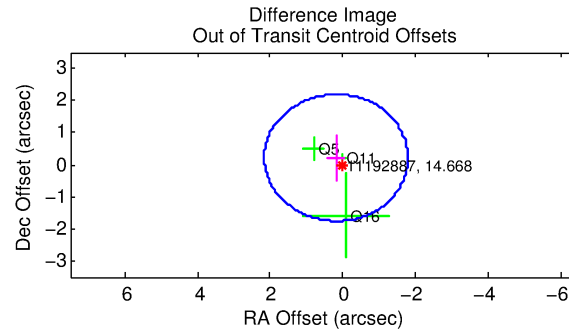
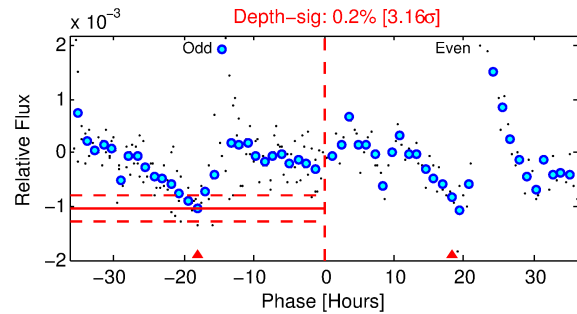
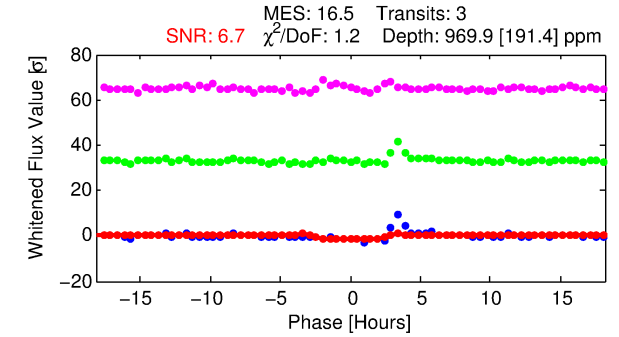
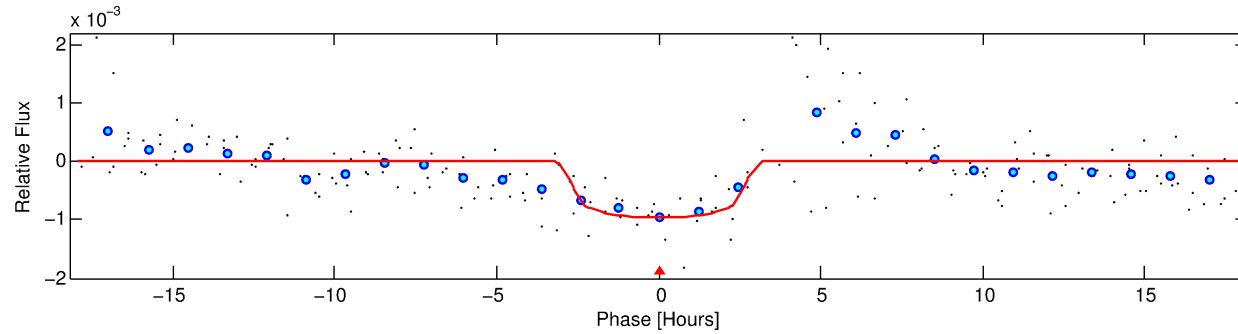
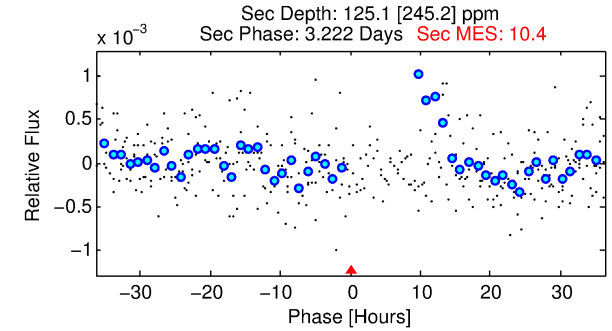
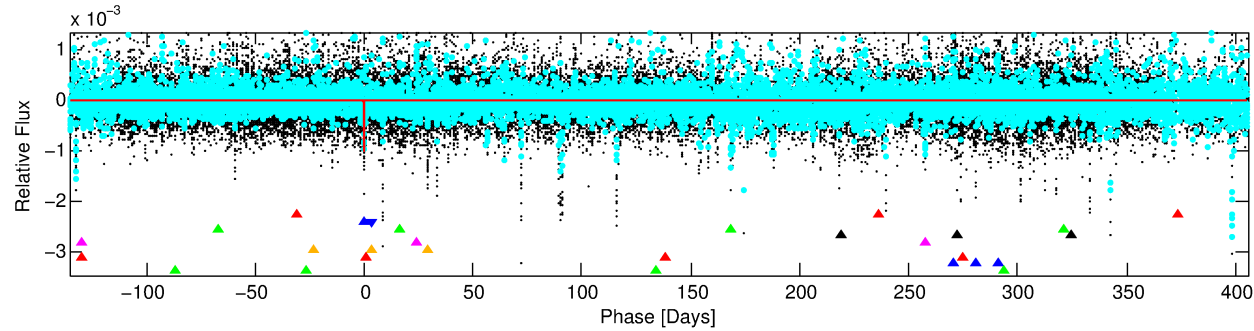
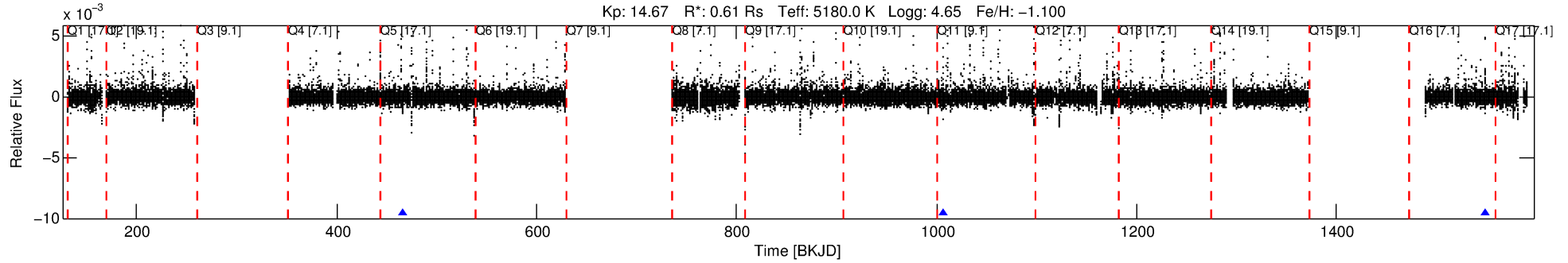
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-02

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 2 of 9 Period: 540.940 d



DV Fit Results:

Period = 540.94020 [0.00814] d
Epoch = 466.1192 [0.0120] BKJD
Rp/R* = 0.0322 [0.0142]
a/R* = 415.77 [770.09]
b = 0.83 [0.69]
Seff = 0.20 [0.03]
Teq = 170 [7] K
Rp = 2.16 [0.96] Re
a = 1.1018 [0.0729] AU
Ag = 17988.52 [38715.82] [0.46 σ]
Teffp = 3052 [1643] K [1.75 σ]

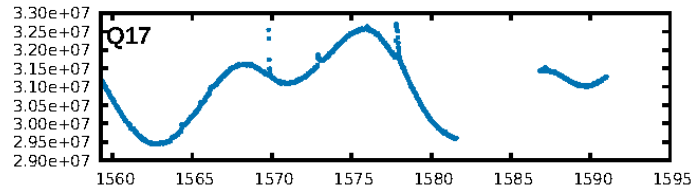
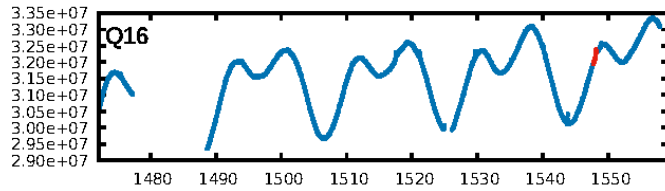
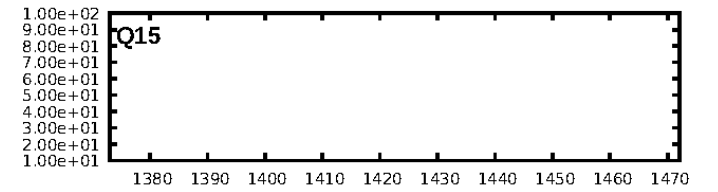
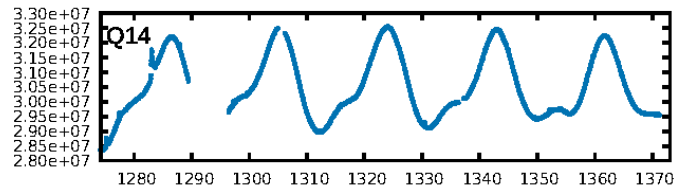
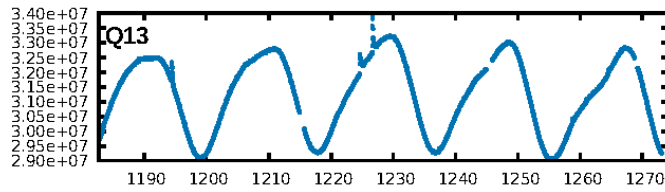
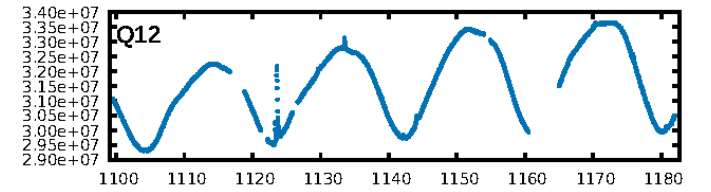
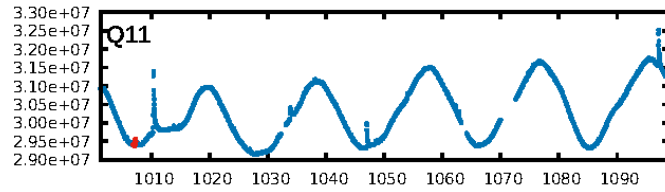
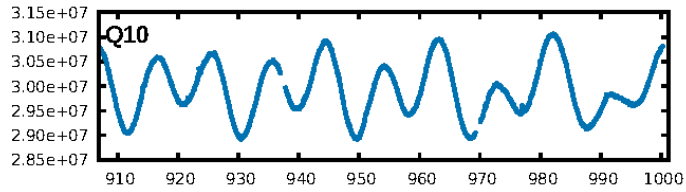
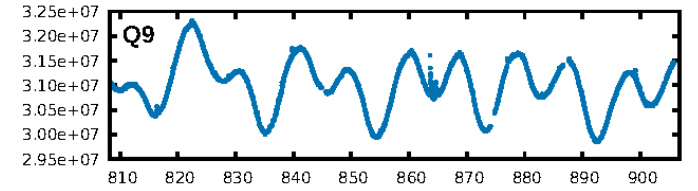
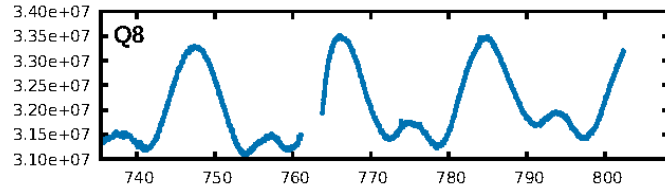
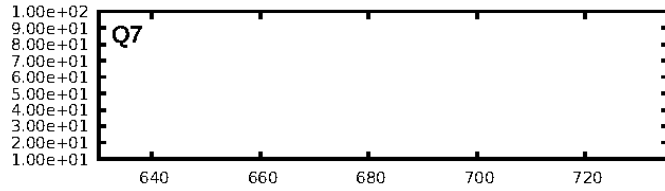
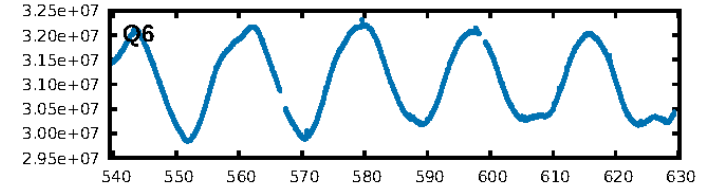
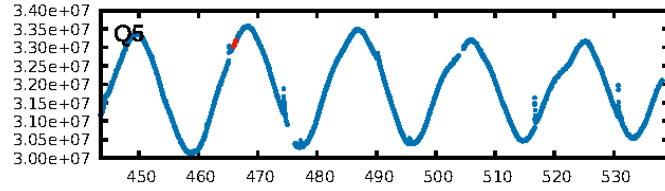
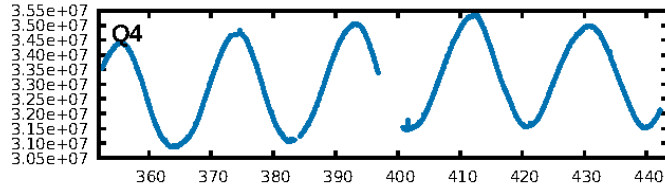
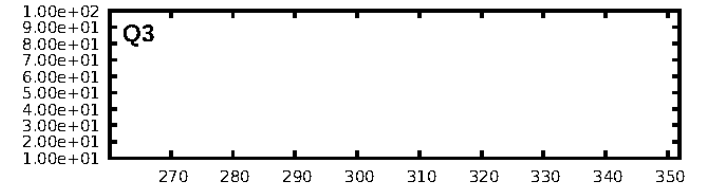
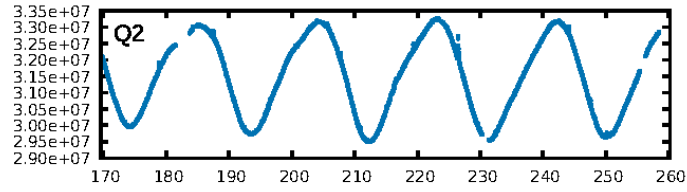
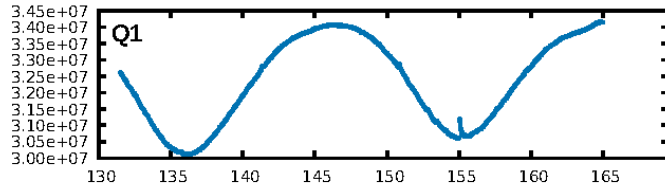
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [20.97 σ]
LongPeriod-sig: 100.0% [234.84 σ]
ModelChiSquare2-sig: 2.9%
ModelChiSquareGof-sig: 93.7%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.9723
Centroid-sig: 15.4%
Centroid-so: 1.432 arcsec [0.94 σ]
OotOffset-rm: 0.283 arcsec [0.43 σ]
OotOffset-st: 0/1/1/1 [3]
KicOffset-rm: 0.230 arcsec [0.30 σ]
KicOffset-st: 0/1/1/1 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

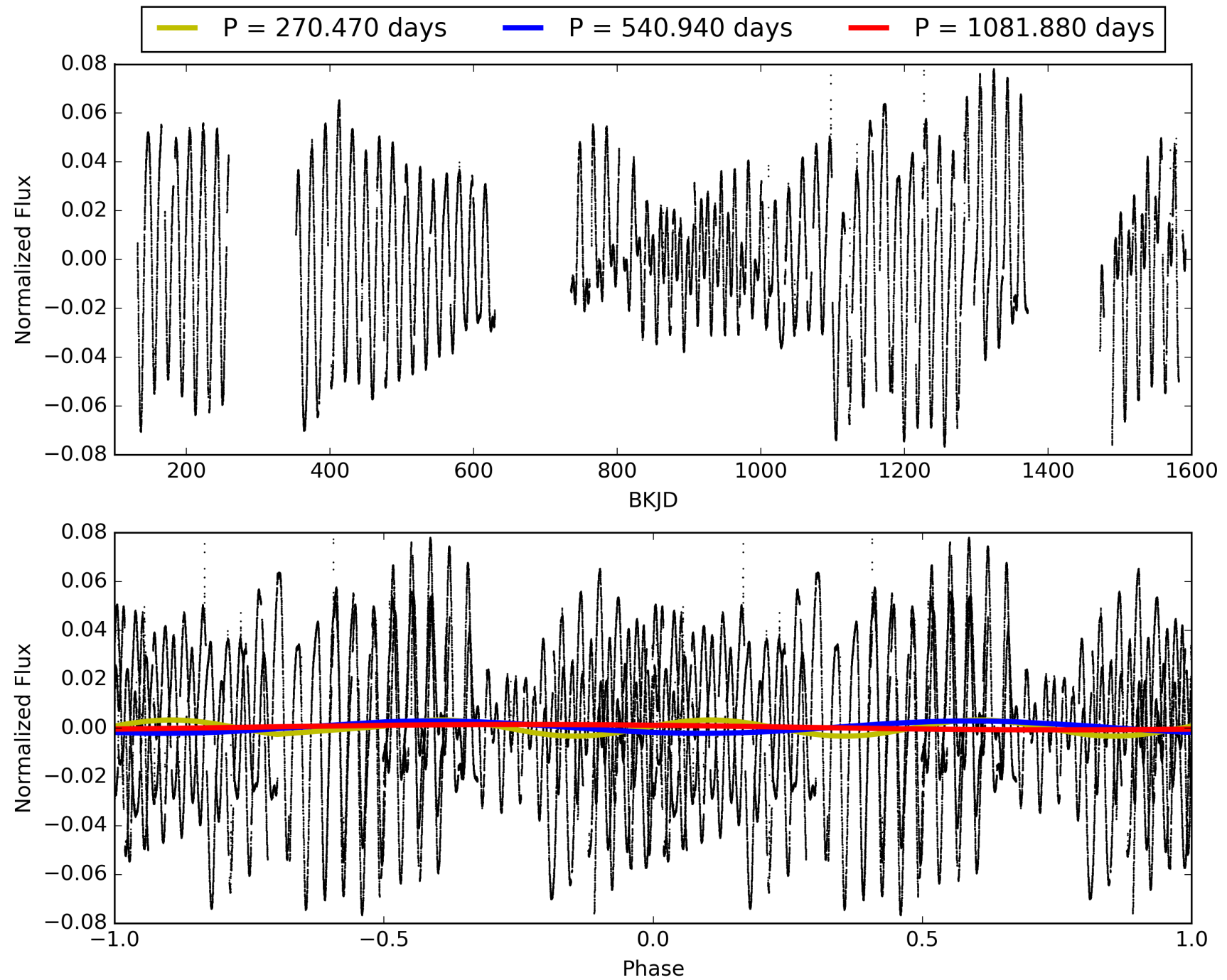
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:42:14 Z

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

TCE 011192887-02, PDC Light Curves

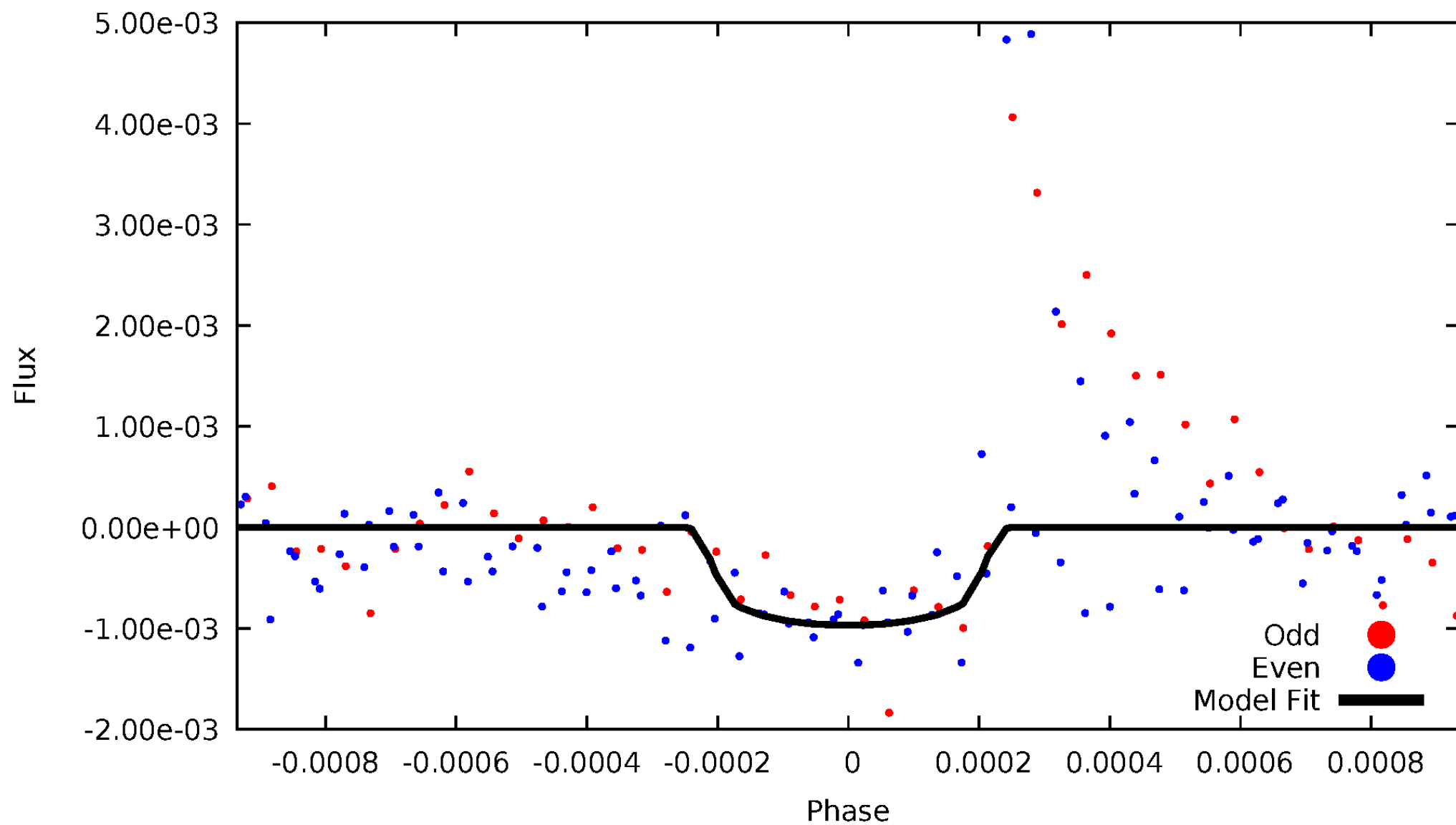


TCE 011192887-02



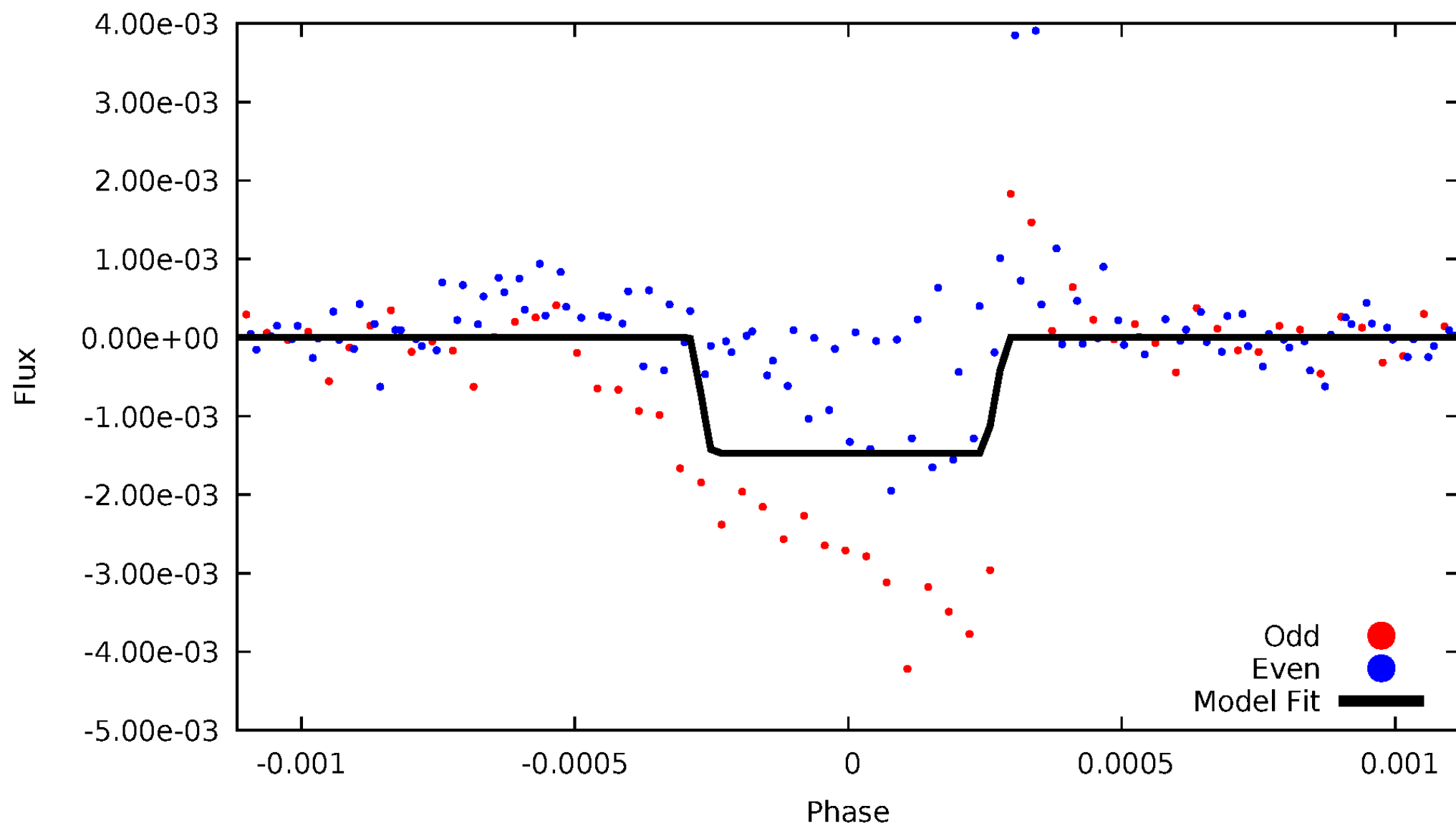
DV Odd/Even

TCE 011192887-02



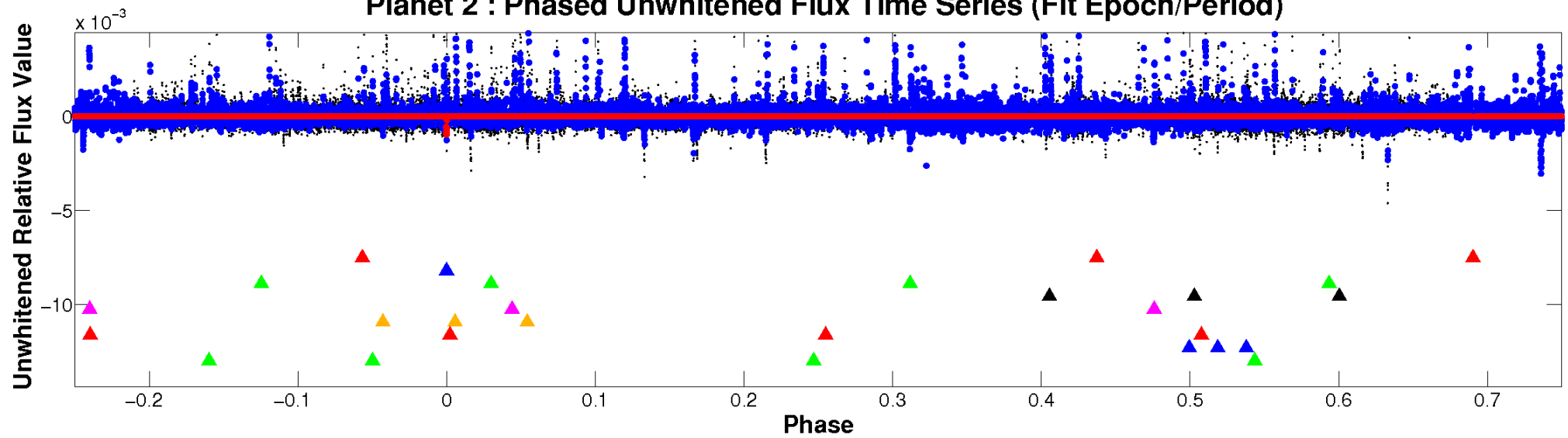
ALT Odd/Even

TCE 011192887-02

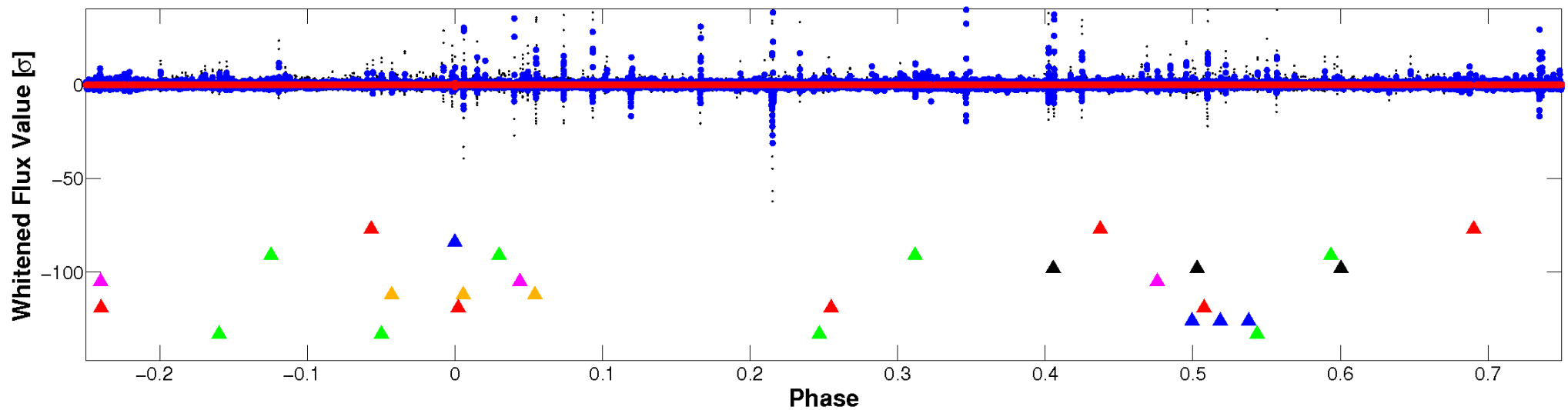


Non-Whitened Vs. Whitened Light Curve

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

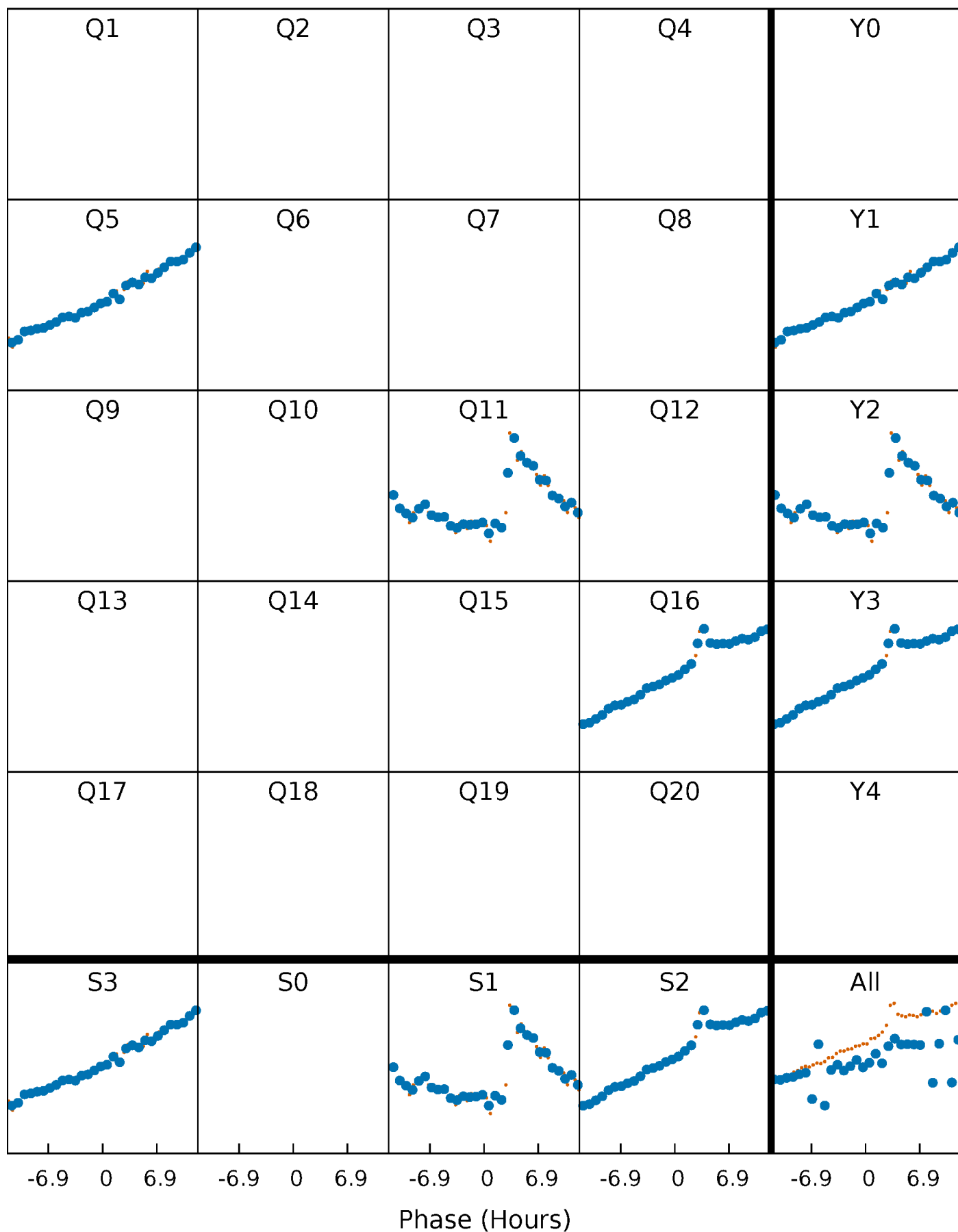


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



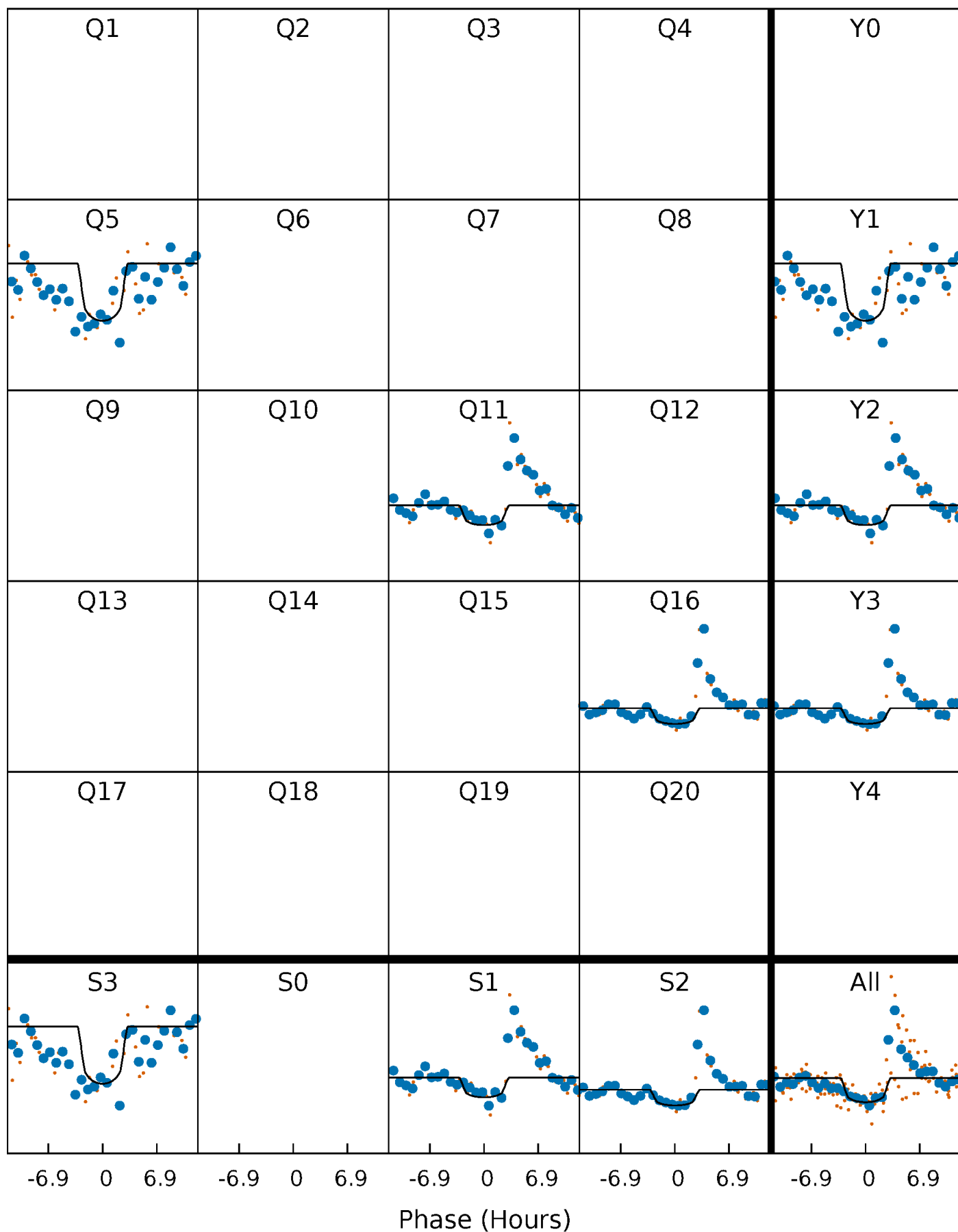
PDC Quarter-Phased Transit Curves

TCE 011192887-02 $P=540.940196$ Days $T_0=466.119222$ (BKJD)



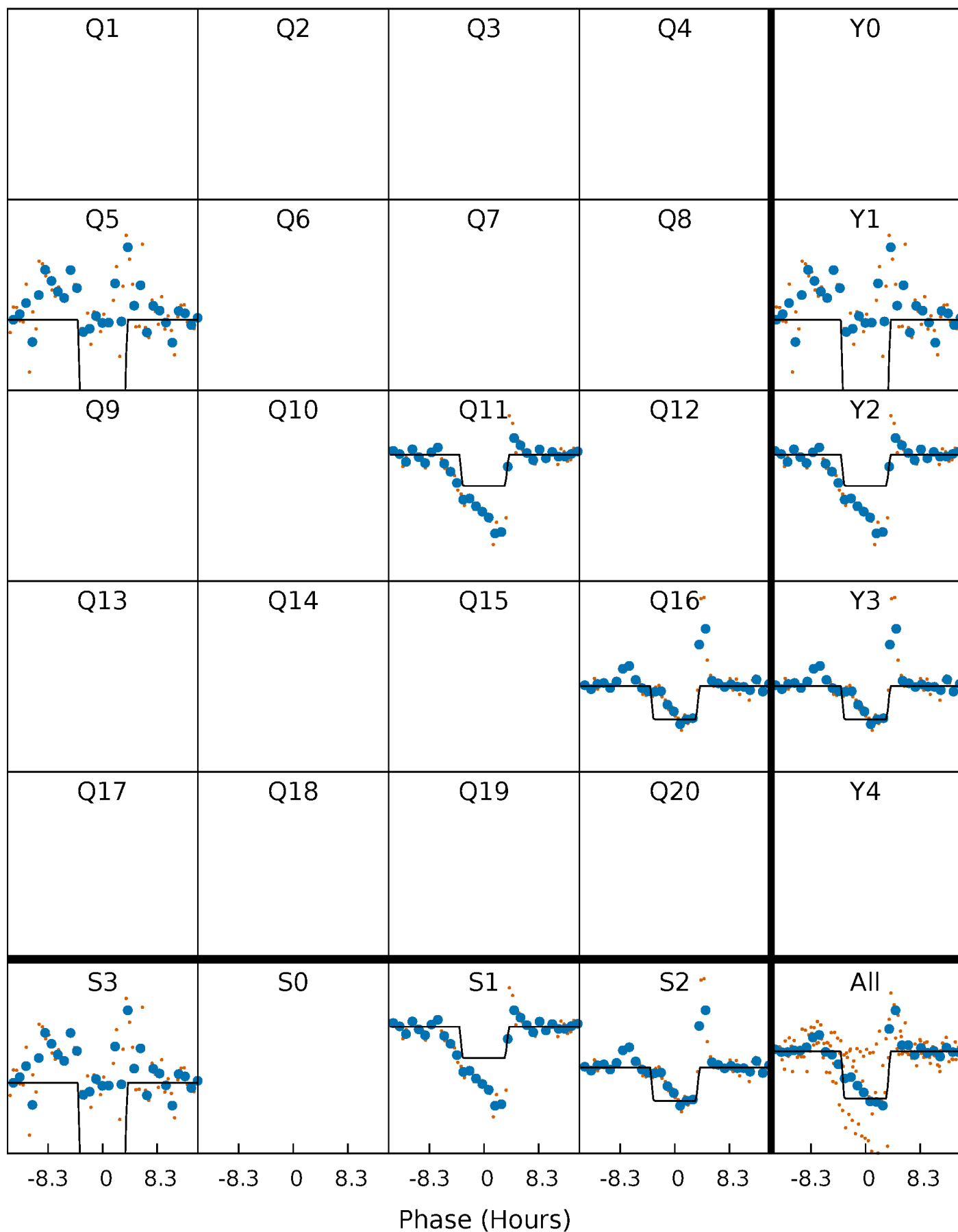
DV Quarter-Phased Transit Curves

TCE 011192887-02 $P=540.940196$ Days $T_0=466.119222$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

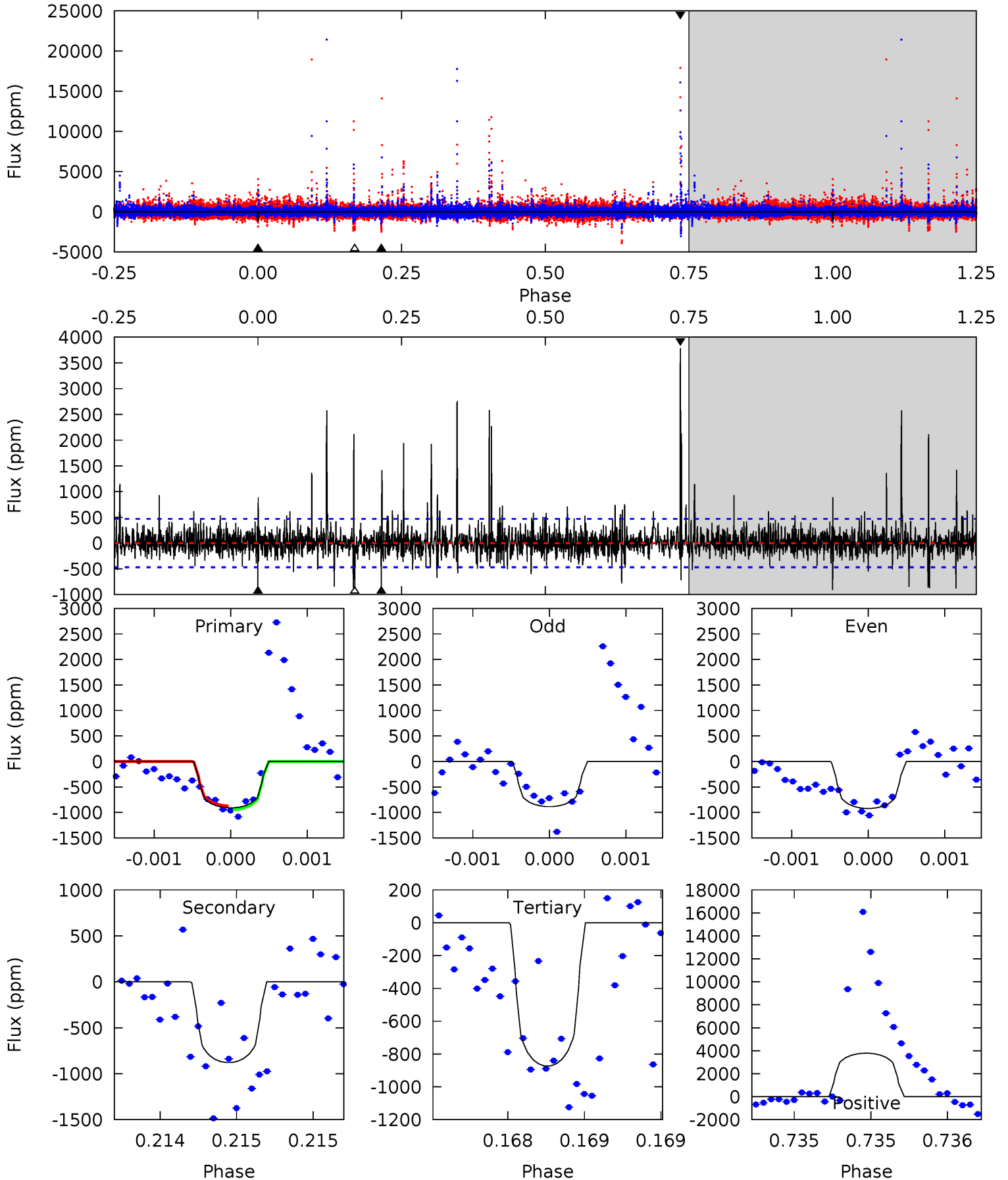
TCE 011192887-02 $P=540.930823$ Days $T_0=466.103811$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-02, P = 540.940196 Days, E = 466.119222 Days

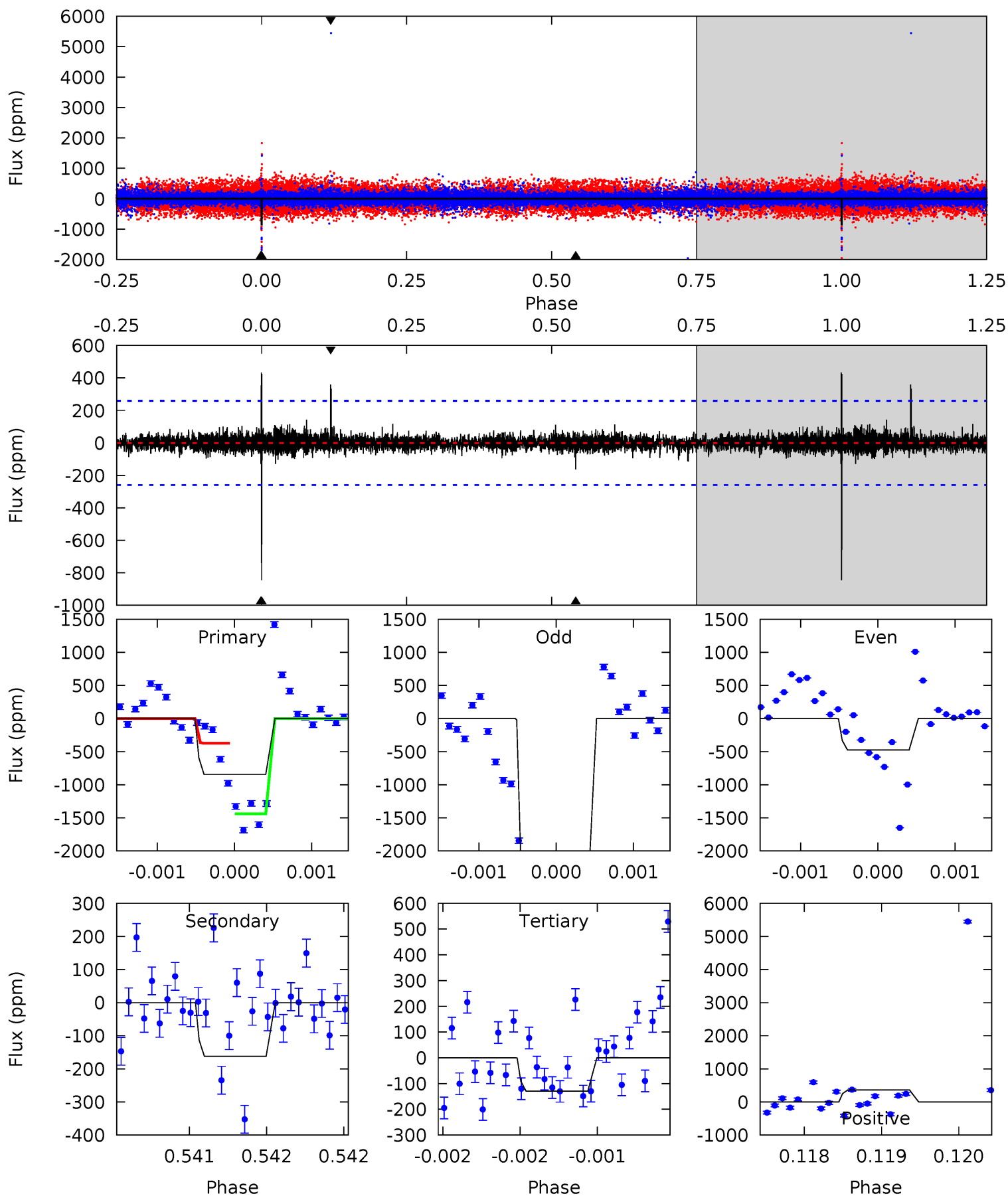
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
10.8	10.4	10.3	44.8	5.57	3.48	2.74	0.43	-34.0	0.07	-34.4	0.10	1.02	0.81	0.45



Alt Model-Shift Uniqueness Test

011192887-02, P = 540.930823 Days, E = 466.103811 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.1	3.46	2.76	7.69	5.55	3.45	0.55	15.3	10.4	0.70	-4.23	35.1	1.28	0.34	0



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-02 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-879 ± 84	$2.16^{+0.94}_{-0.88}$	237^{+9}_{-9}	4997^{+1381}_{-711}	$128789^{+235015}_{-68860}$
Alt.	-162 ± 47	$2.53^{+1.01}_{-0.88}$	236^{+9}_{-8}	3433^{+578}_{-356}	16523^{+25417}_{-8641}

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

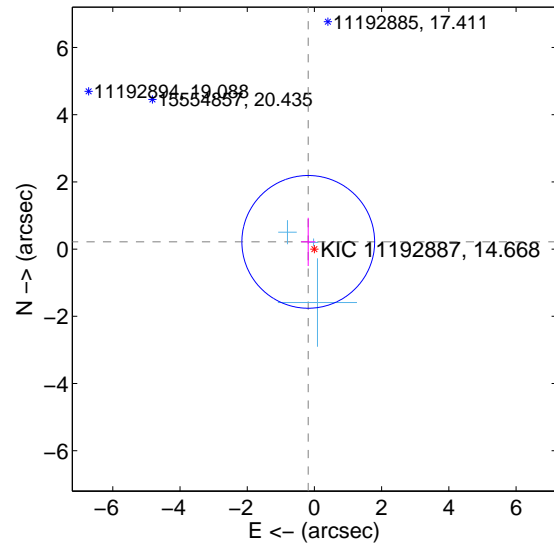
Supplemental centroid analysis for 011192887-02. Kepler magnitude: 14.67. Transit SNR 6.74

There are 3 quarters with good PRF difference image offsets

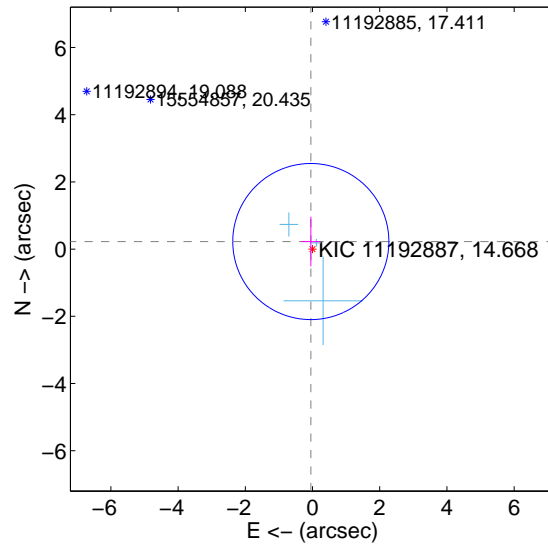
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.283 ± 0.658	0.43	0.184 ± 0.214	0.215 ± 0.717
PRF-fit source offset from KIC position	0.230 ± 0.774	0.30	0.051 ± 0.278	0.225 ± 0.739
photometric centroid source offset	1.43 ± 1.52	0.94	-0.56 ± 0.83	-1.32 ± 1.62

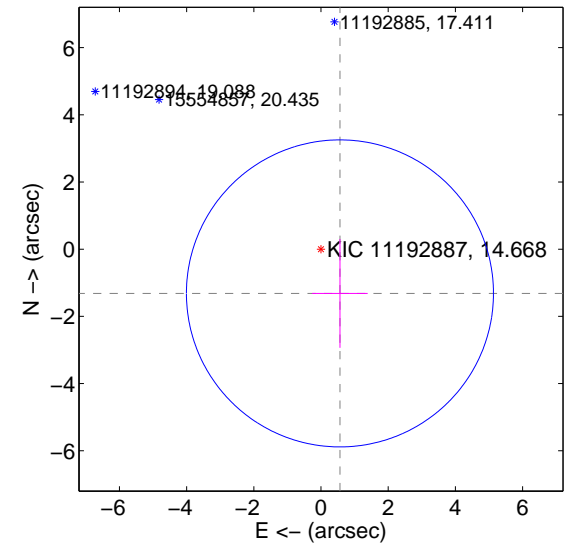
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

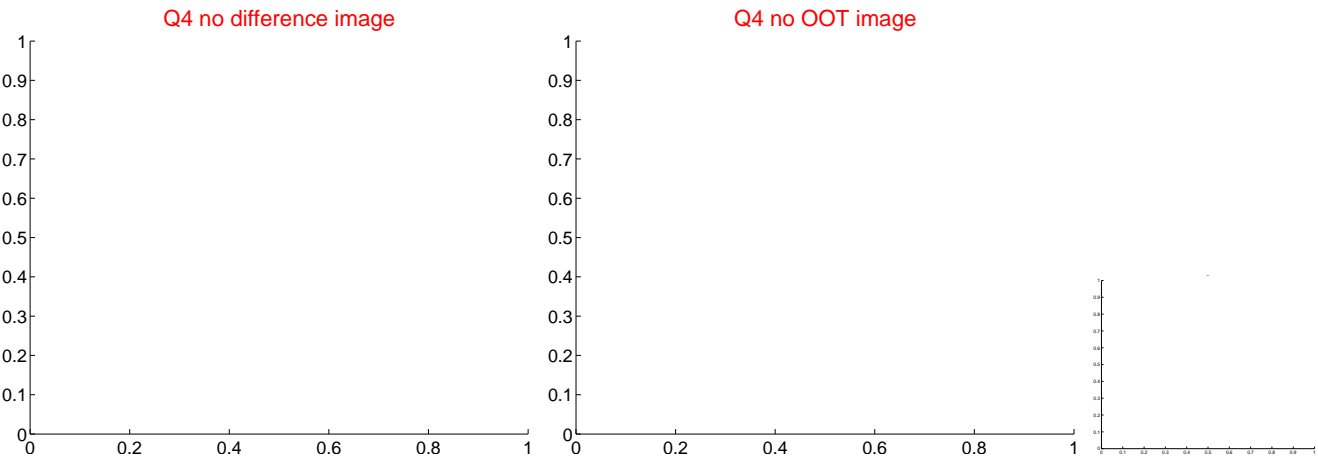
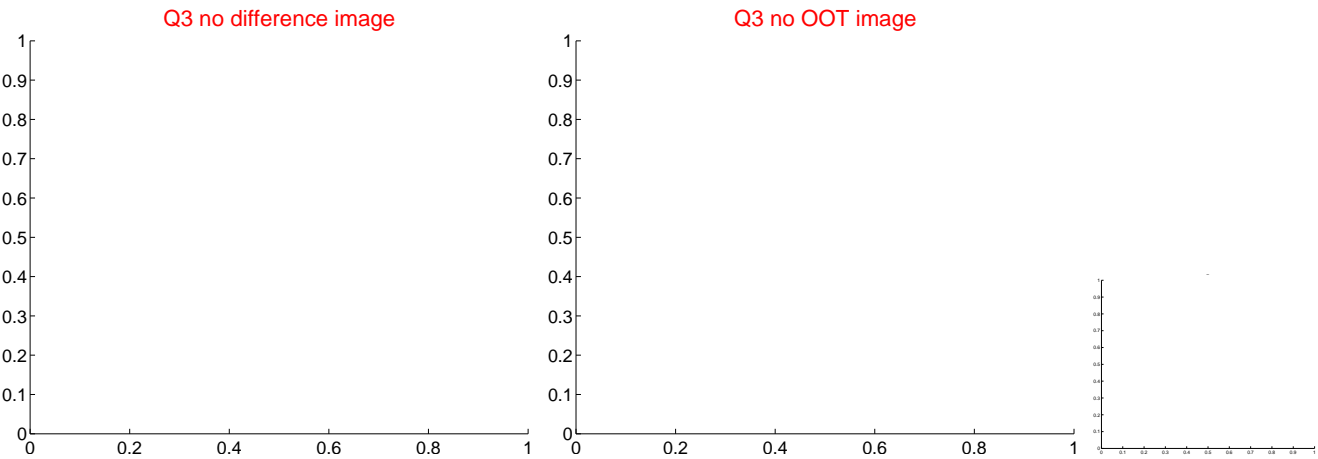
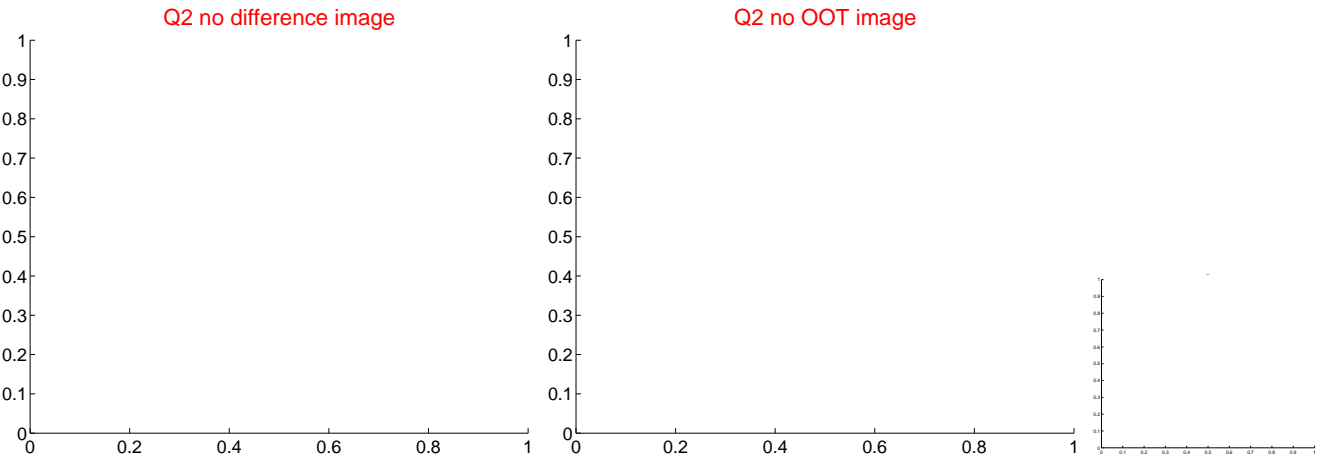
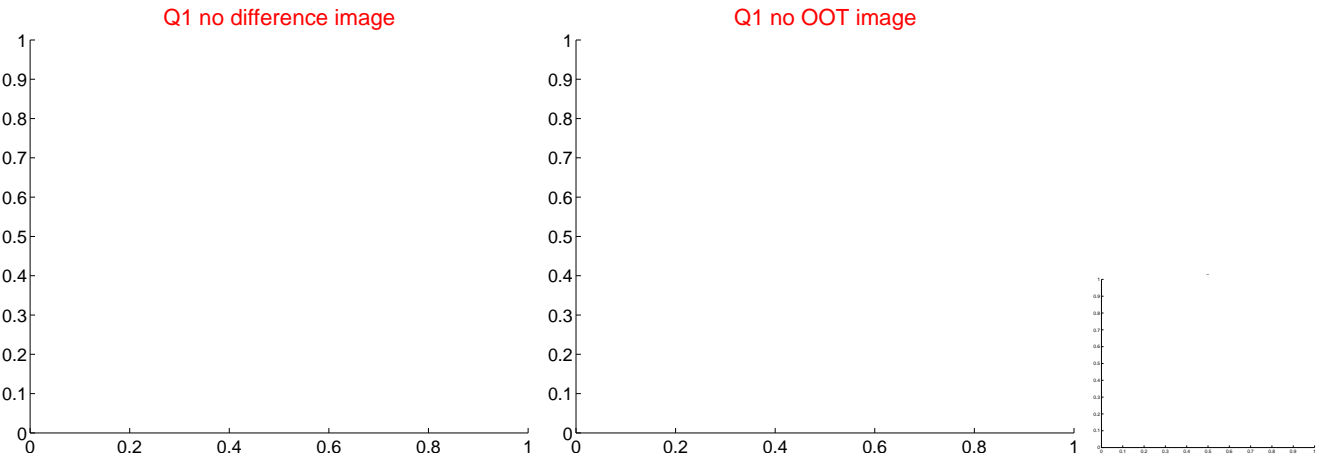


offset from photometric centroids

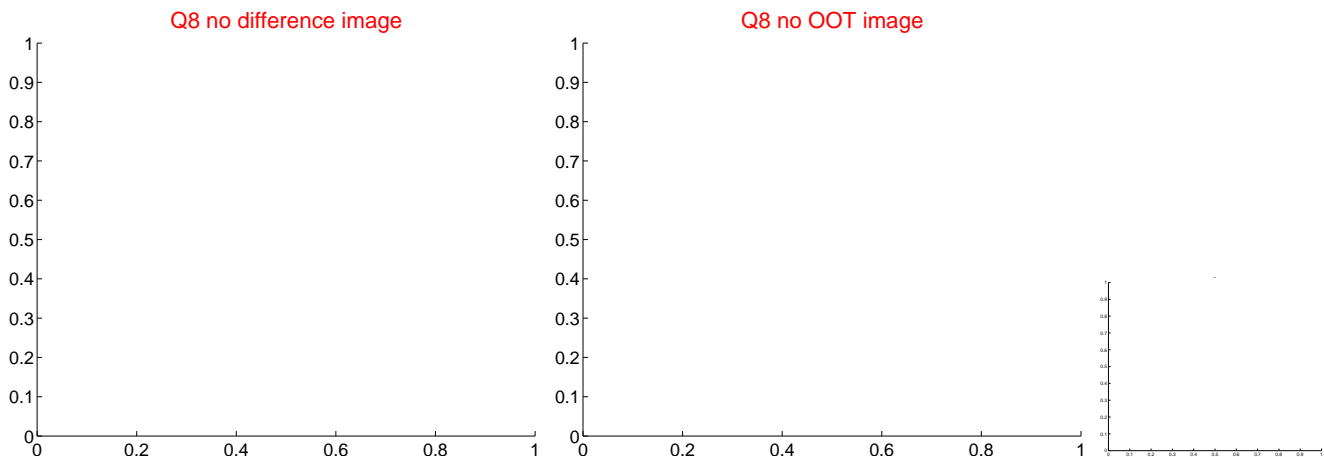
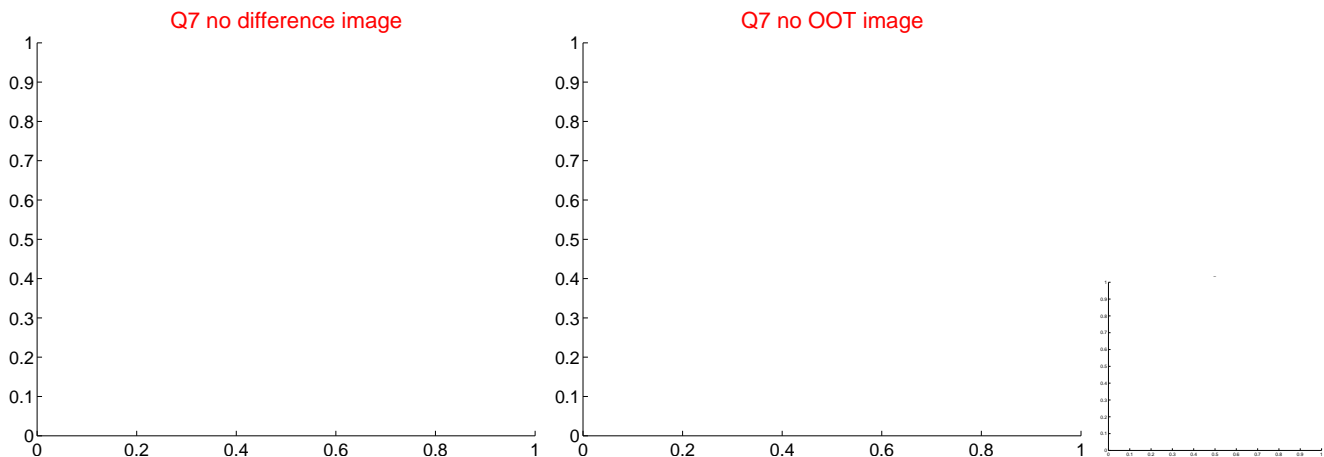
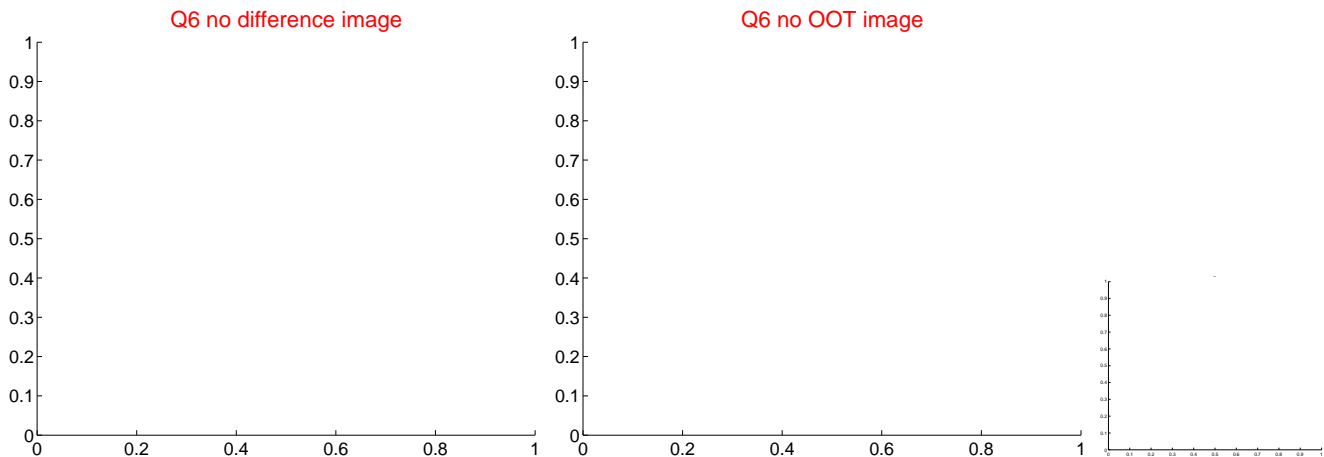
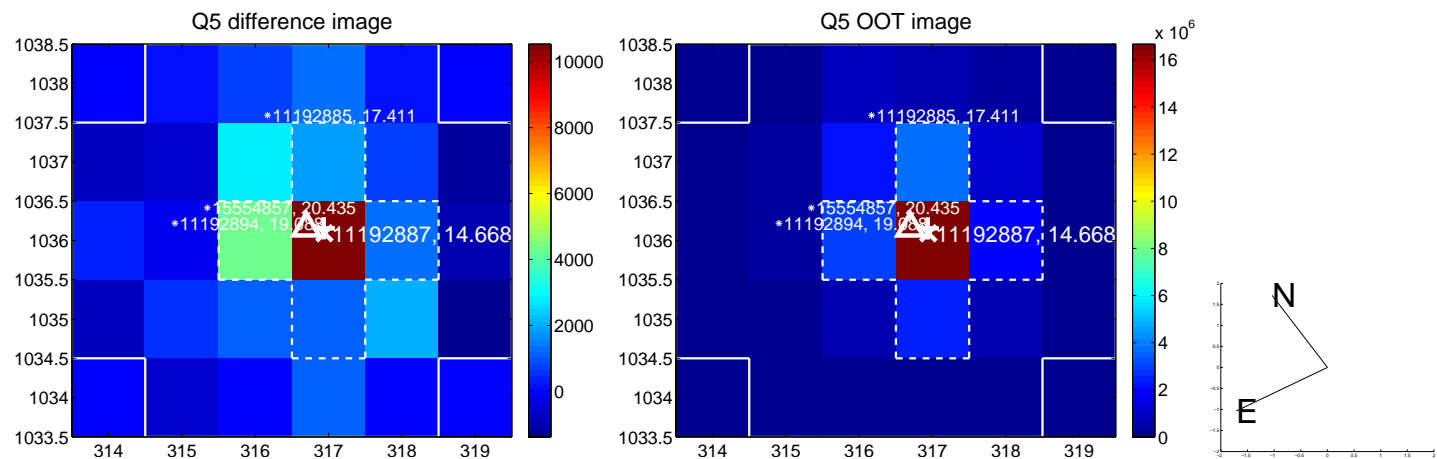


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

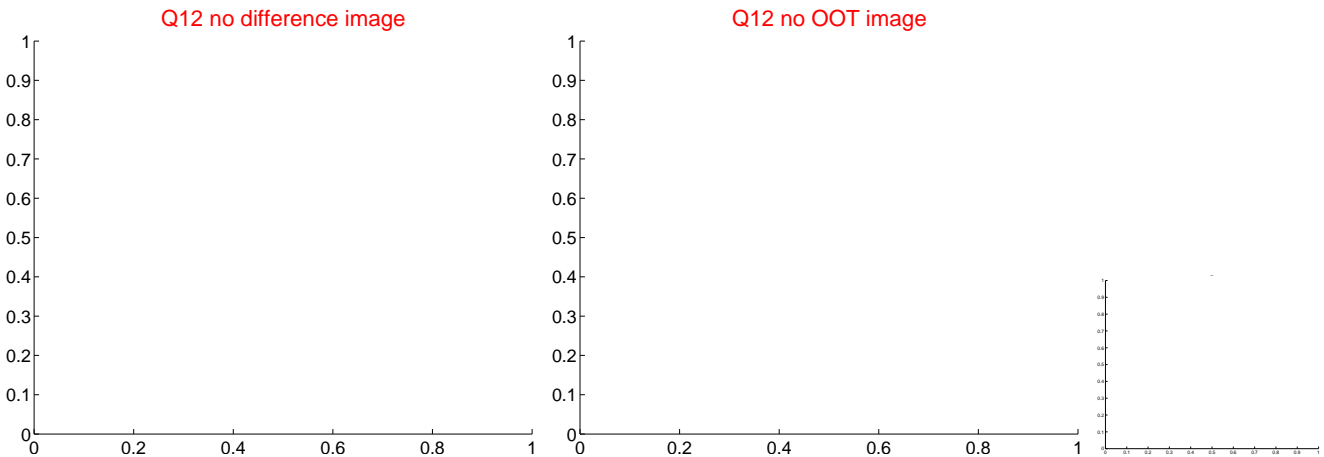
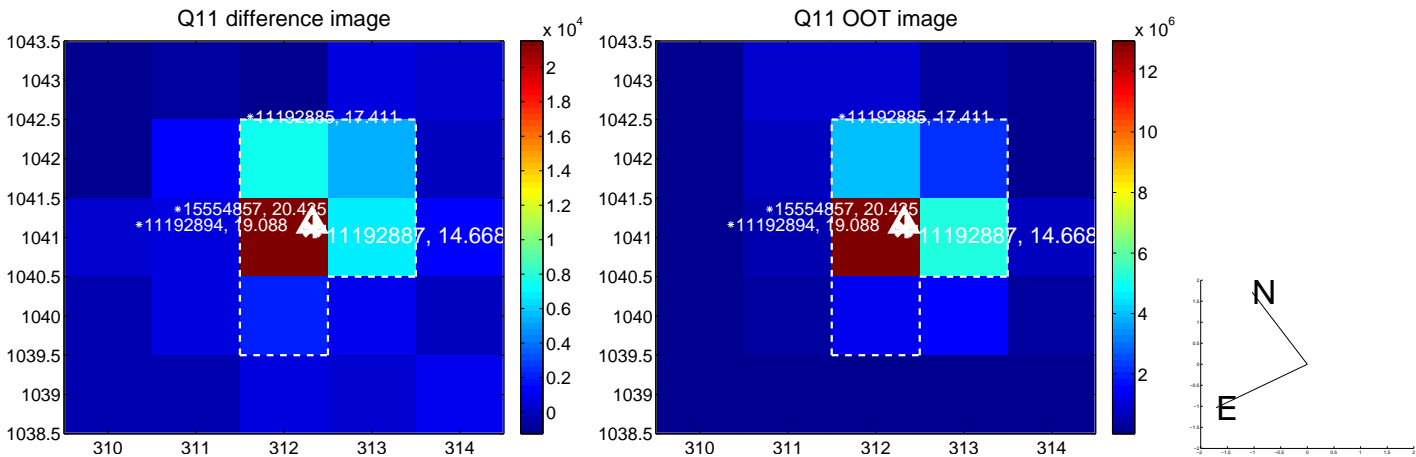
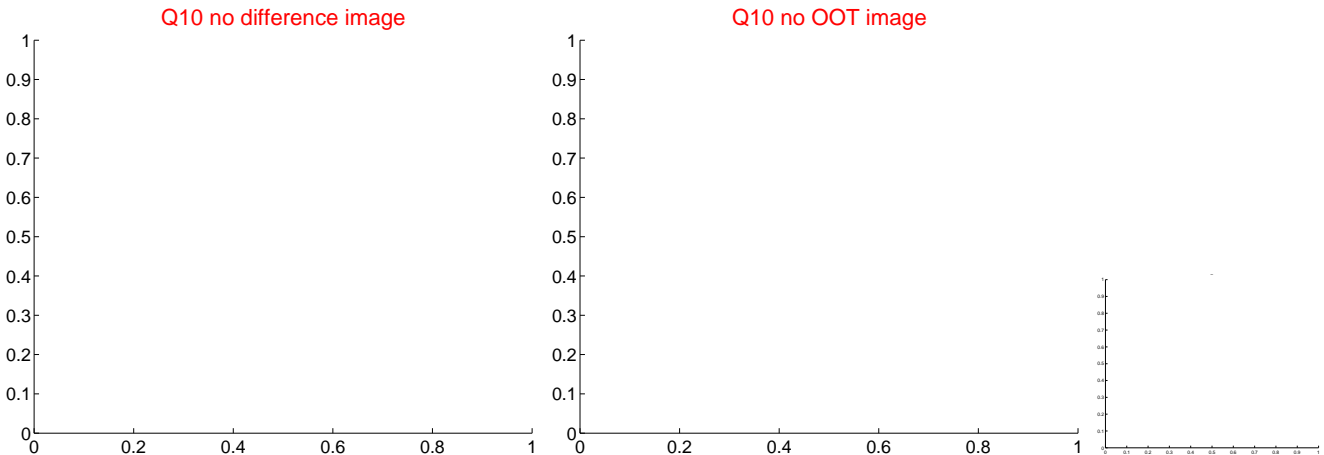
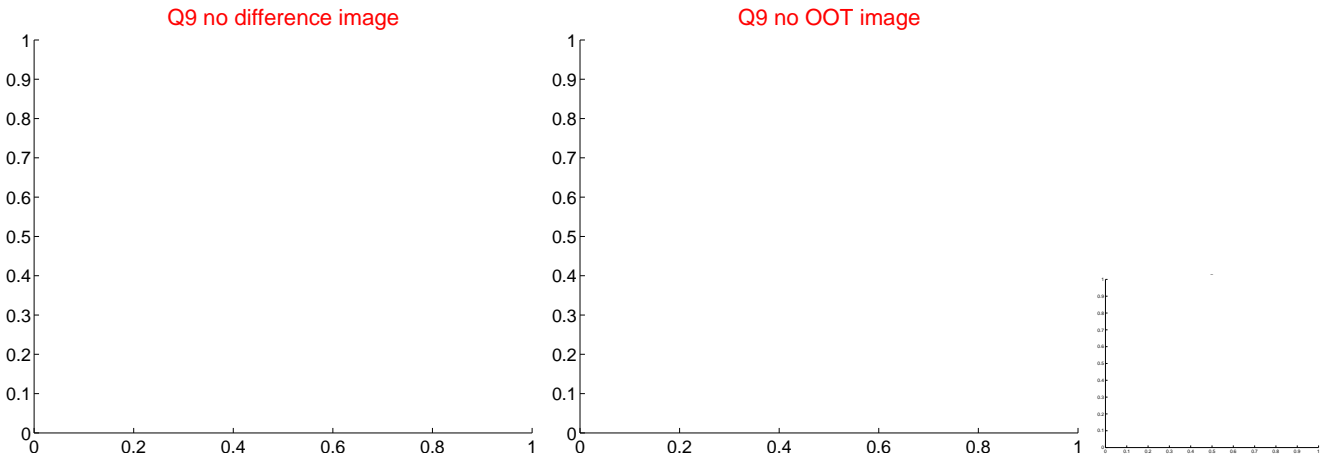
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



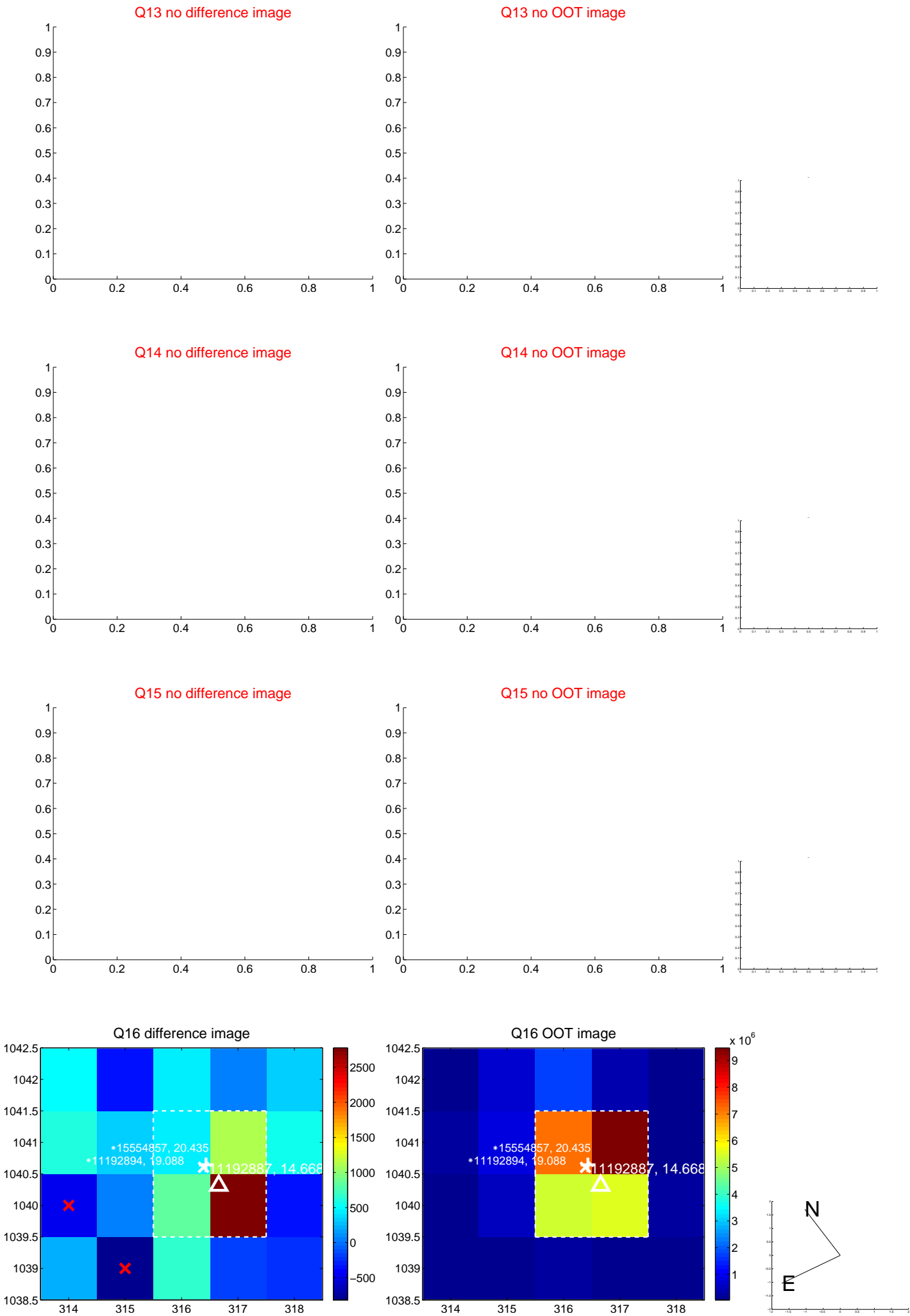
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



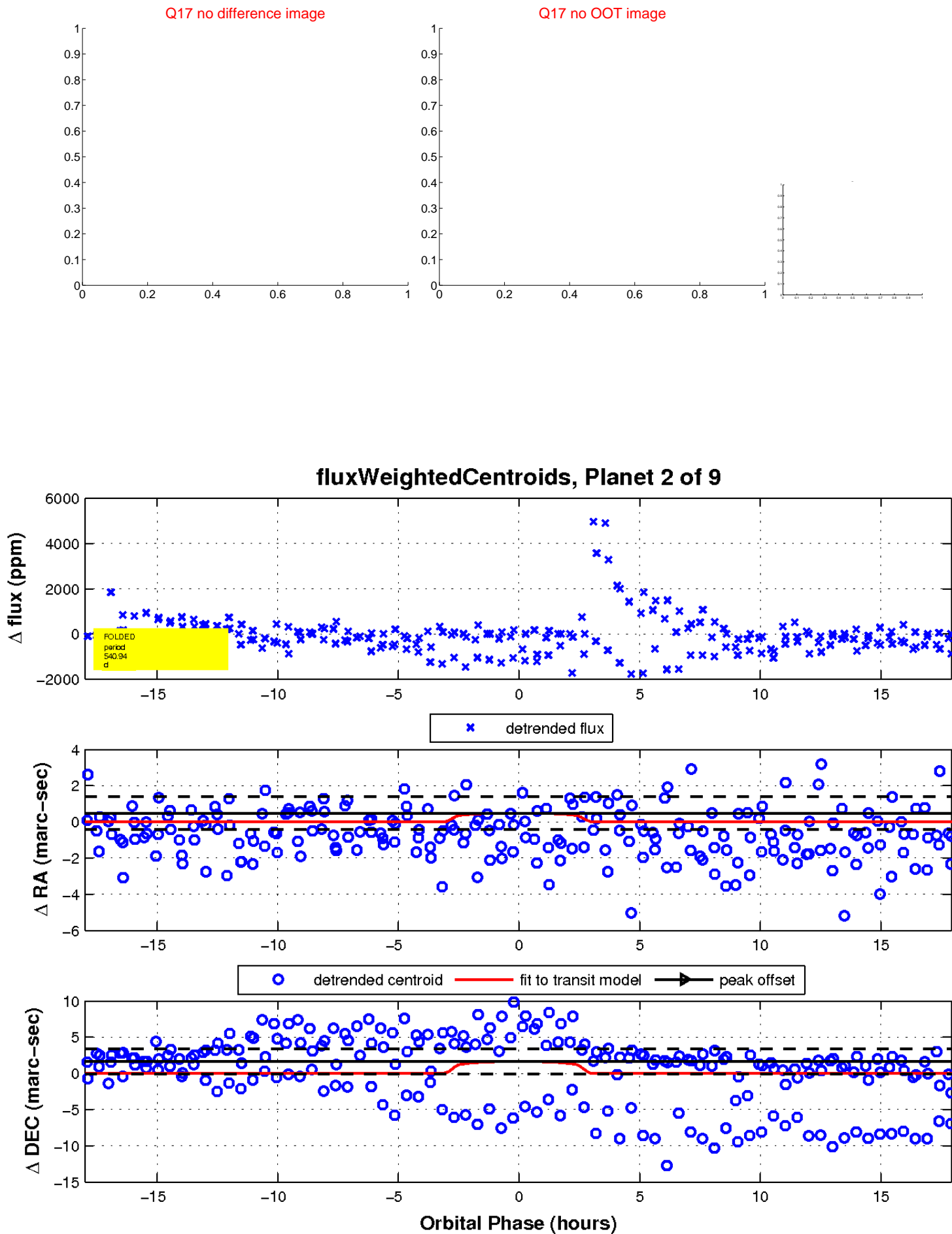
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value



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

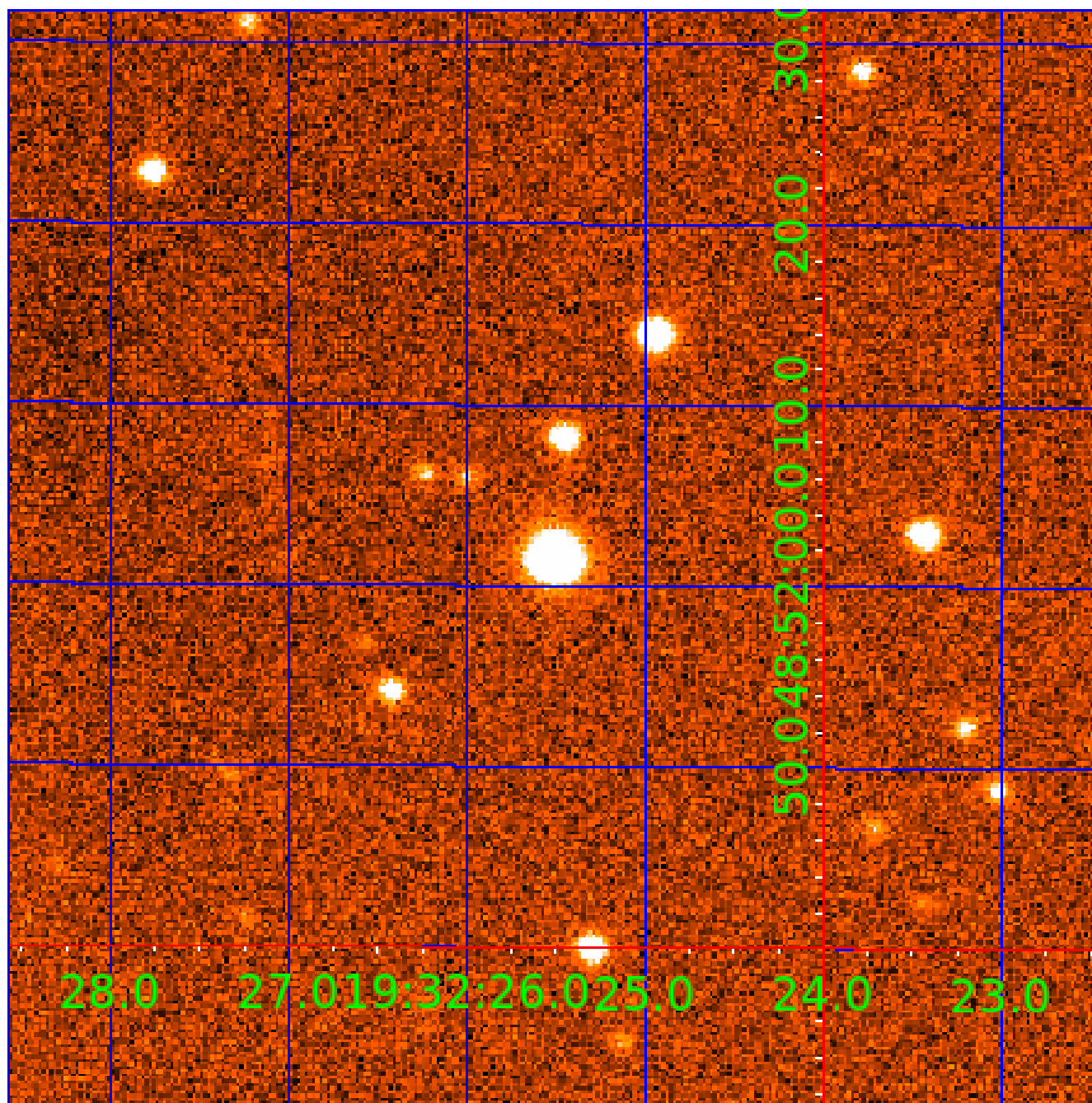


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

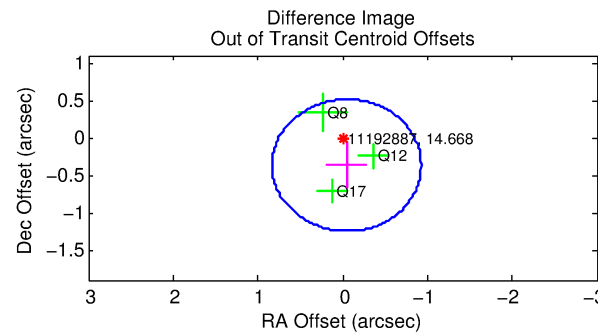
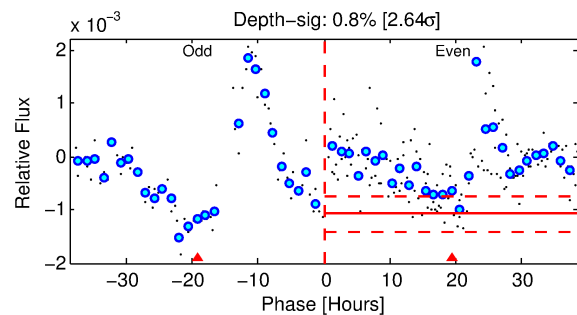
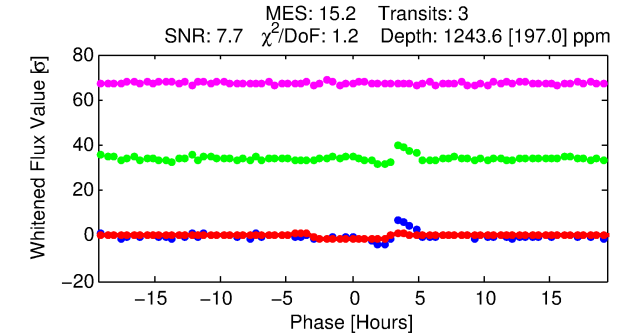
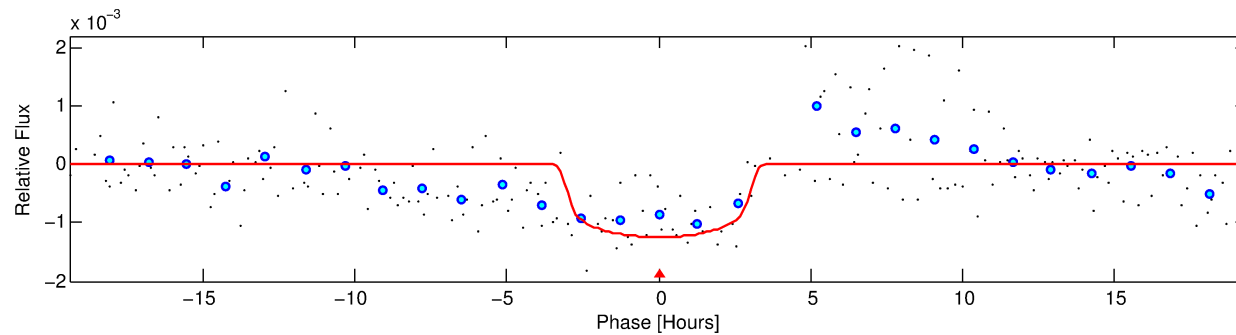
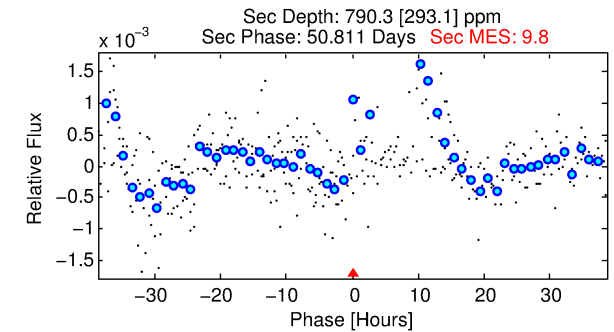
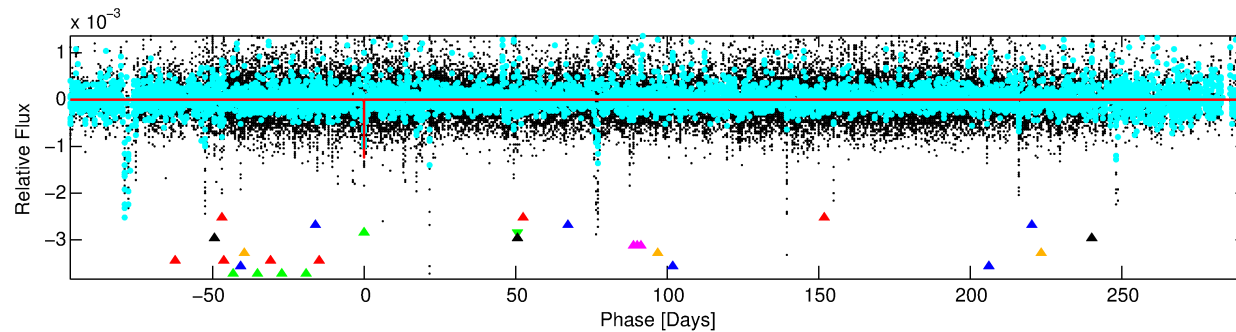
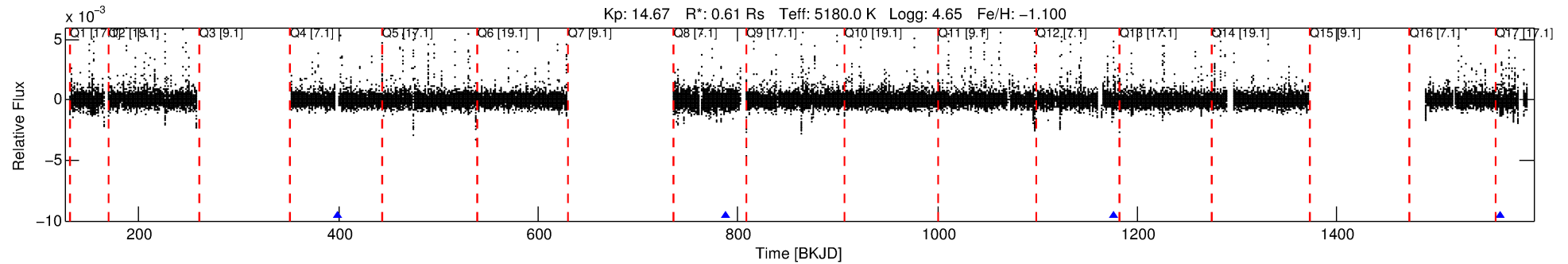
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-03

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 3 of 9 Period: 388.489 d



DV Fit Results:

Period = 388.48920 [0.00587] d
Epoch = 398.7258 [0.0134] BKJD
Rp/R* = 0.0341 [0.0145]
a/R* = 364.96 [653.39]
b = 0.66 [1.54]
Seff = 0.31 [0.05]
Teq = 190 [8] K
Rp = 2.28 [0.99] Re
a = 0.8836 [0.0585] AU
Ag = 65262.80 [61099.08] [1.07 σ]
Teffp = 4704 [1105] K [4.08 σ]

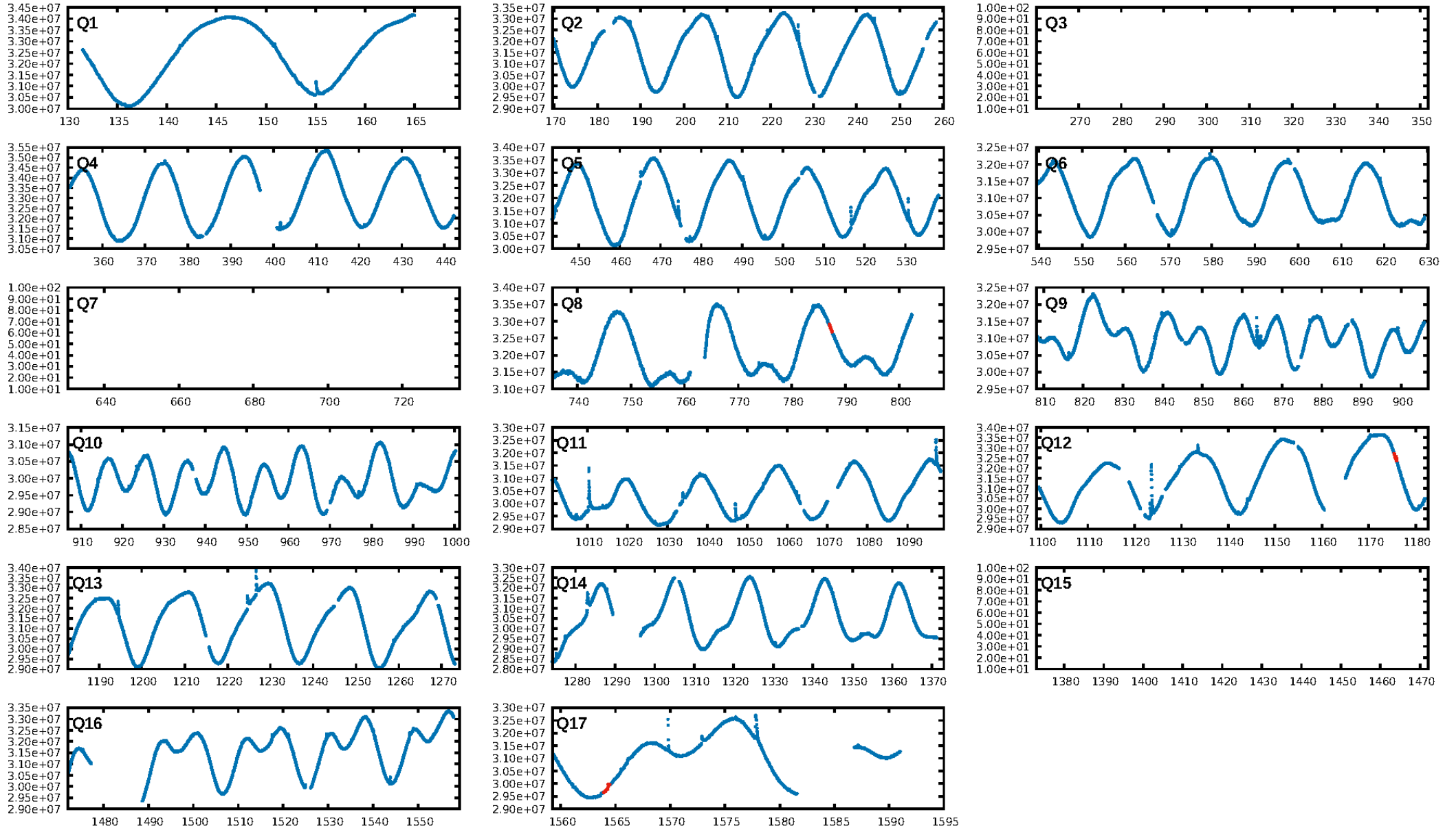
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [4.00 σ]
LongPeriod-sig: 100.0% [49.16 σ]
ModelChiSquare2-sig: 5.3%
ModelChiSquareGof-sig: 86.0%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [2/2]
GhostDiagnostic-chr: 1.914
Centroid-sig: 0.7%
Centroid-so: 1.845 arcsec [1.57 σ]
OotOffset-rm: 0.372 arcsec [1.27 σ]
OotOffset-st: 0/0/2/1 [3]
KicOffset-rm: 0.315 arcsec [1.06 σ]
KicOffset-st: 0/0/2/1 [3]
DiffImageQuality-fgm: 0.67 [2/3]
DiffImageOverlap-fno: 1.00 [3/3]

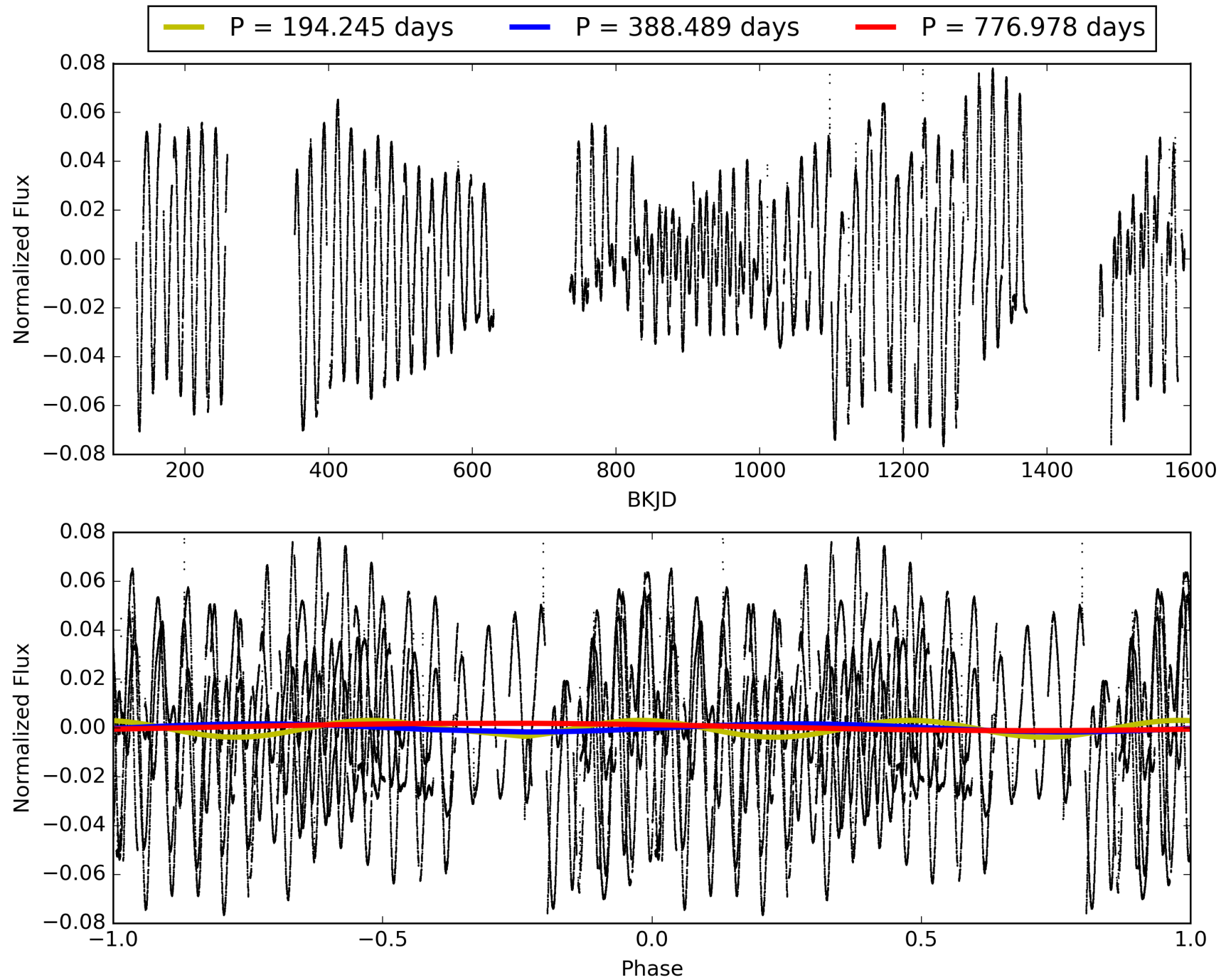
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:42:24 Z

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

TCE 011192887-03, PDC Light Curves

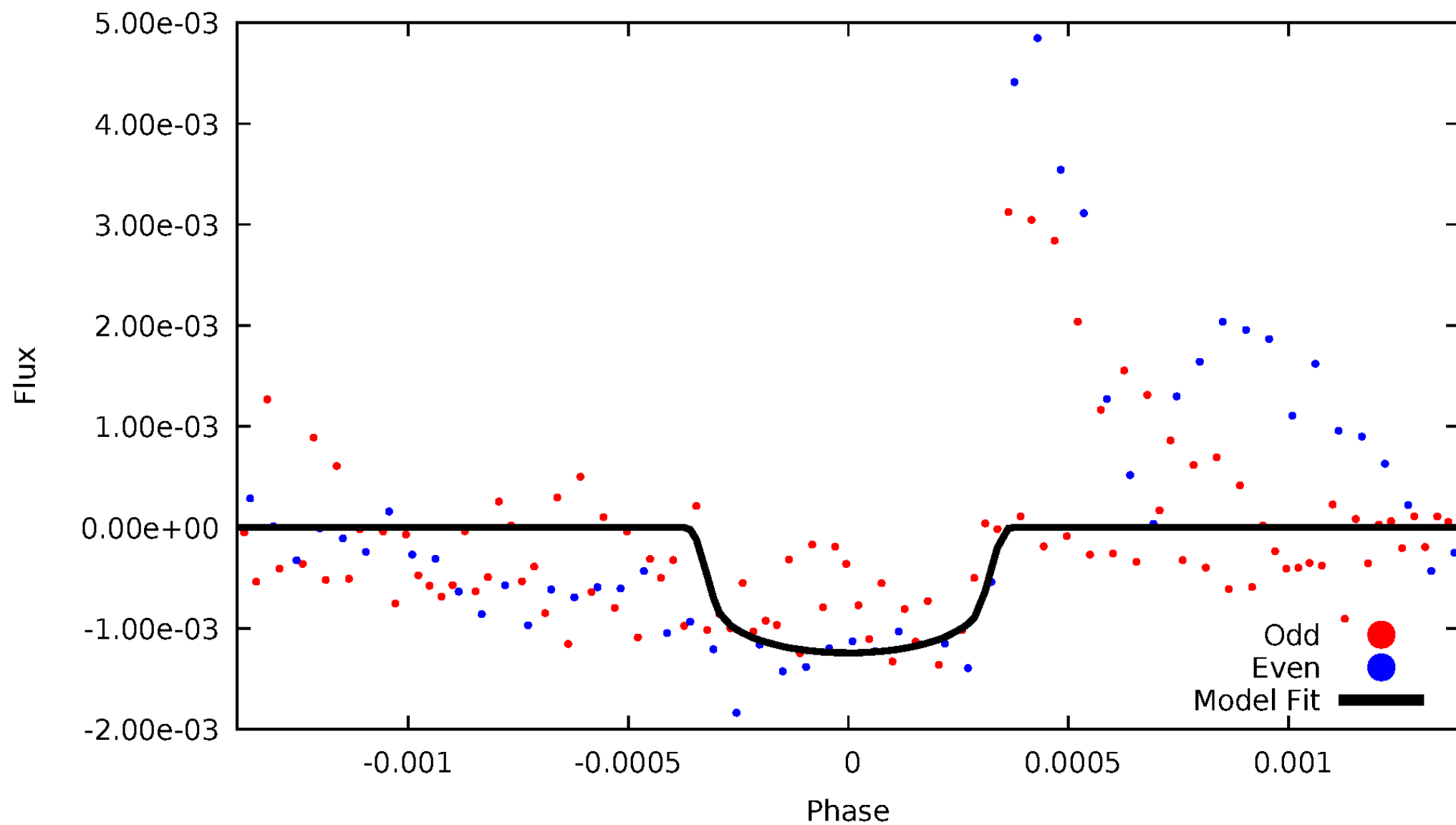


TCE 011192887-03



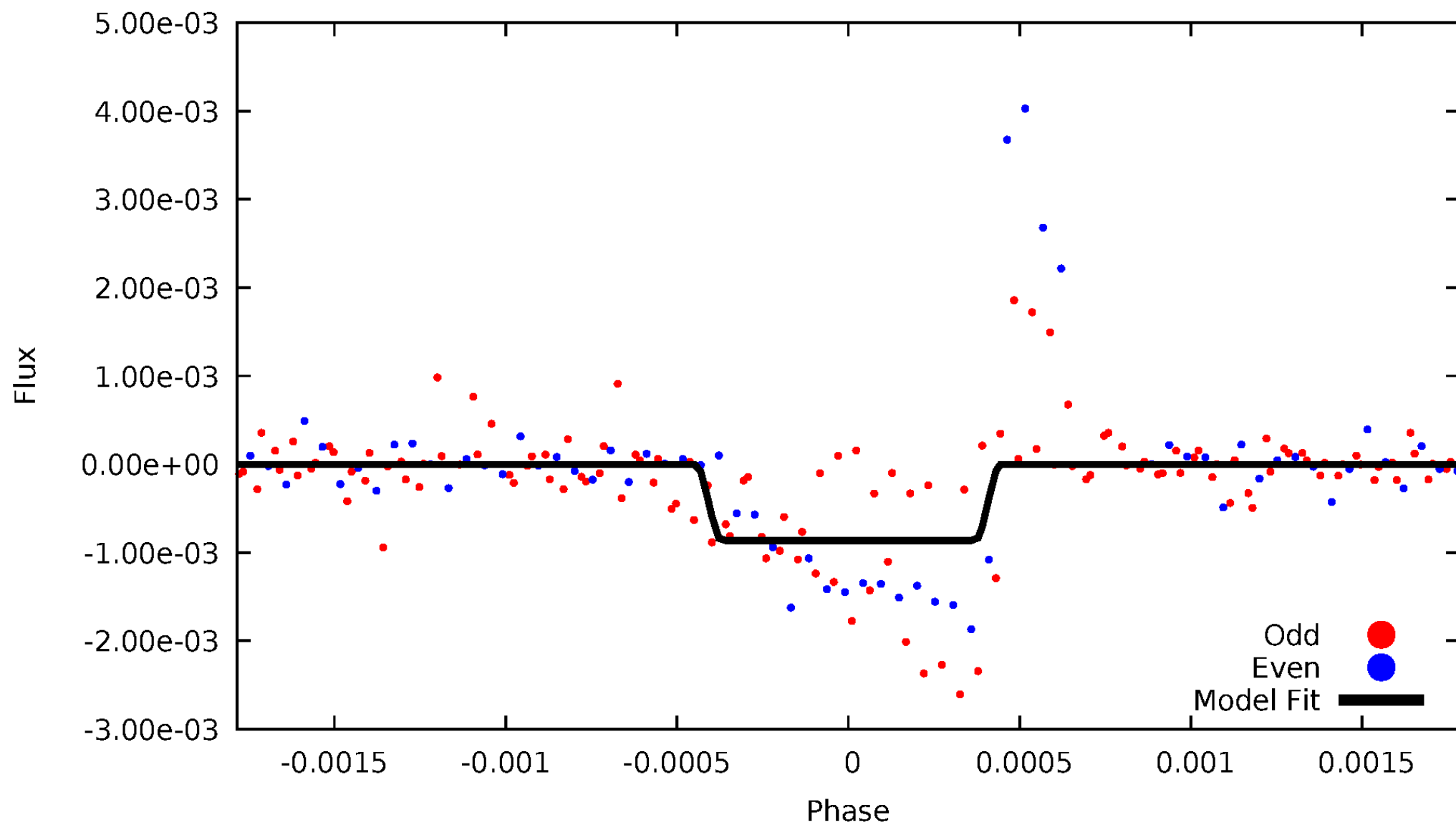
DV Odd/Even

TCE 011192887-03

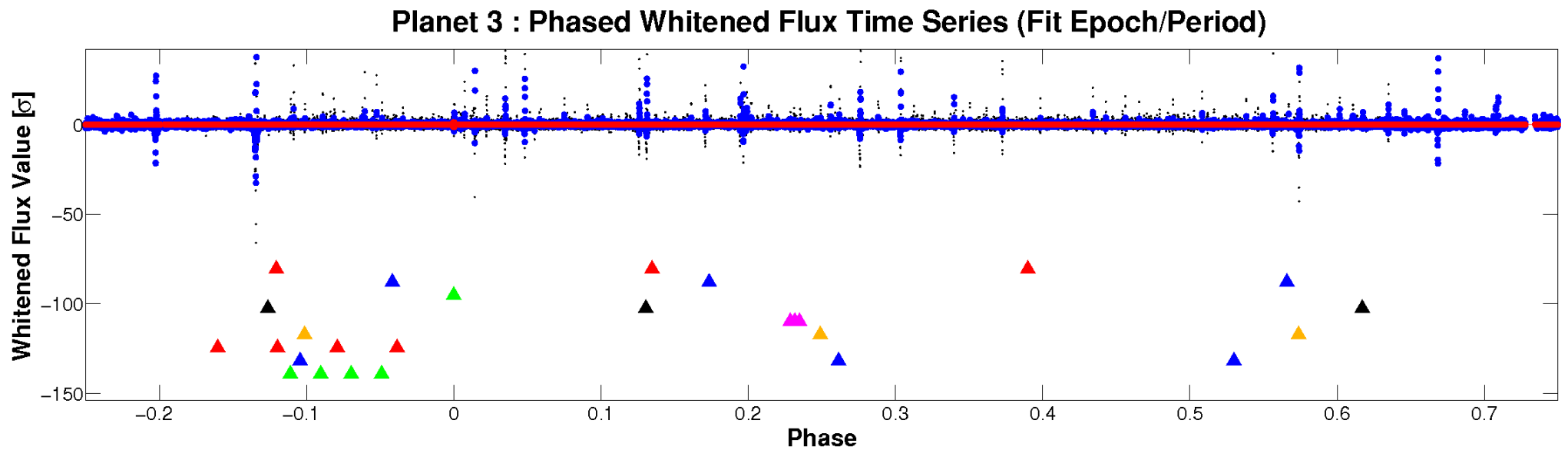
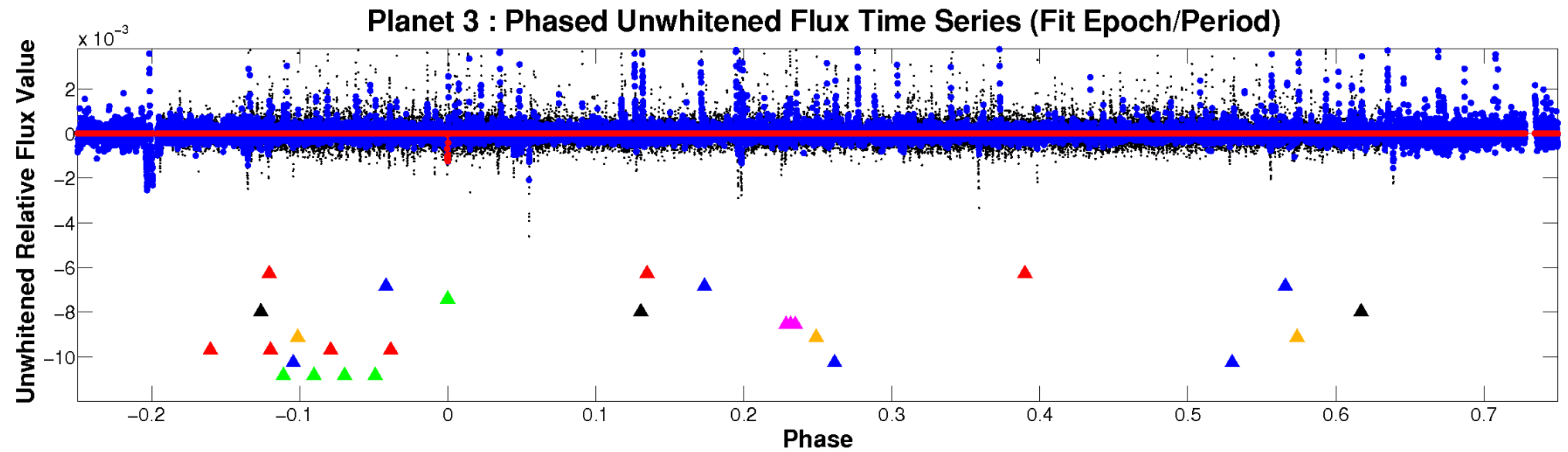


ALT Odd/Even

TCE 011192887-03

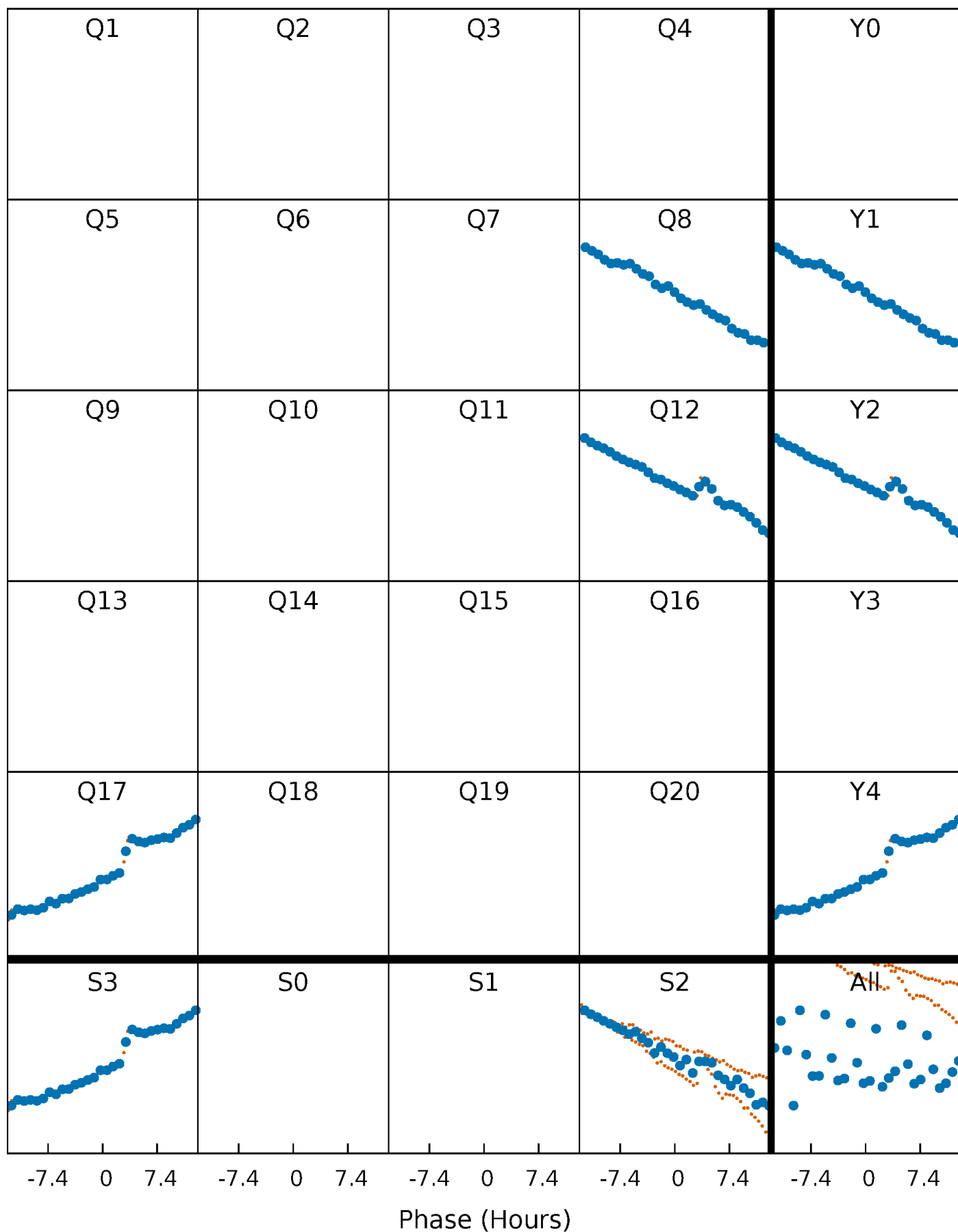


Non-Whitened Vs. Whitened Light Curve



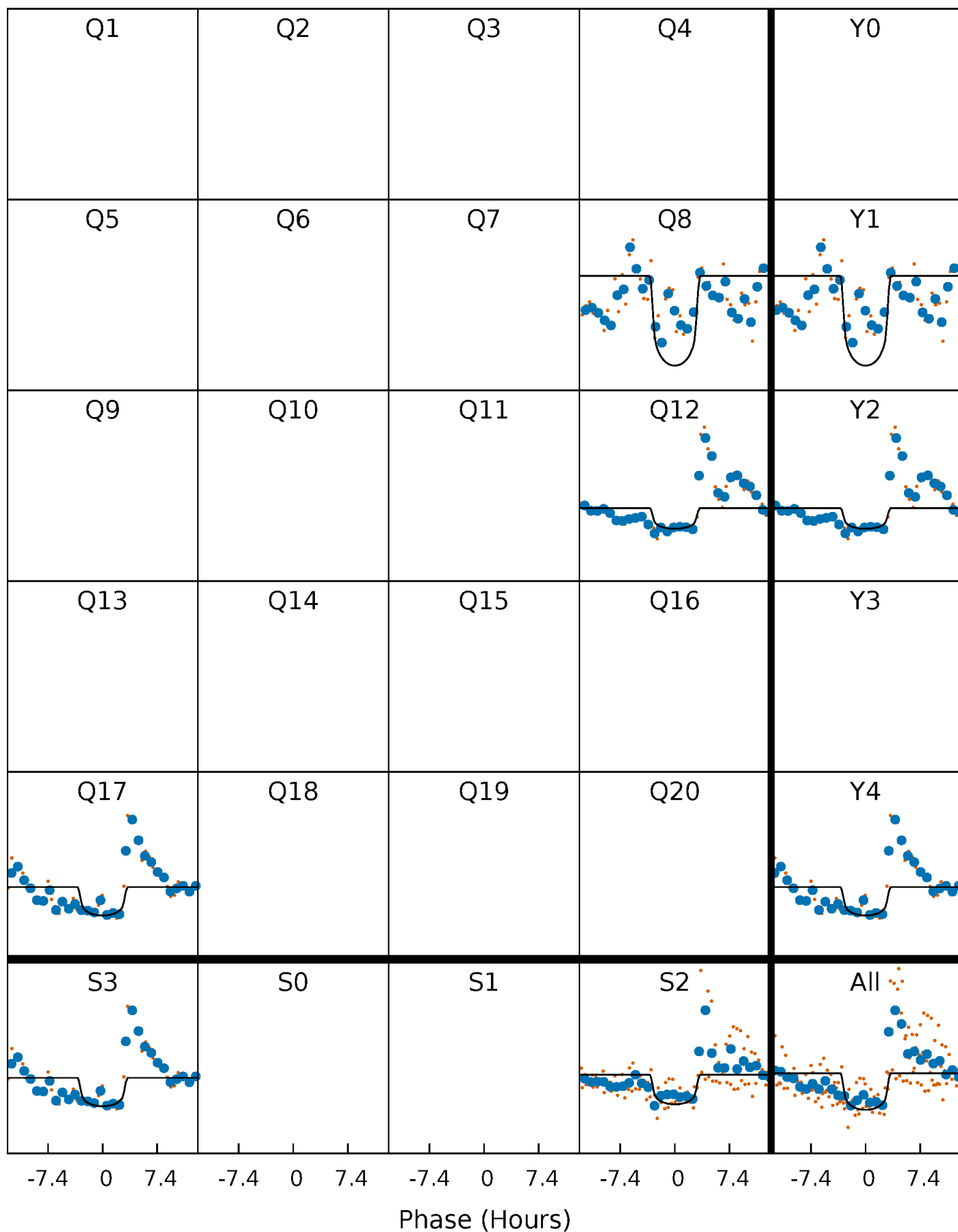
PDC Quarter-Phased Transit Curves

TCE 011192887-03 $P=388.489200$ Days $T_0=398.725778$ (BKJD)



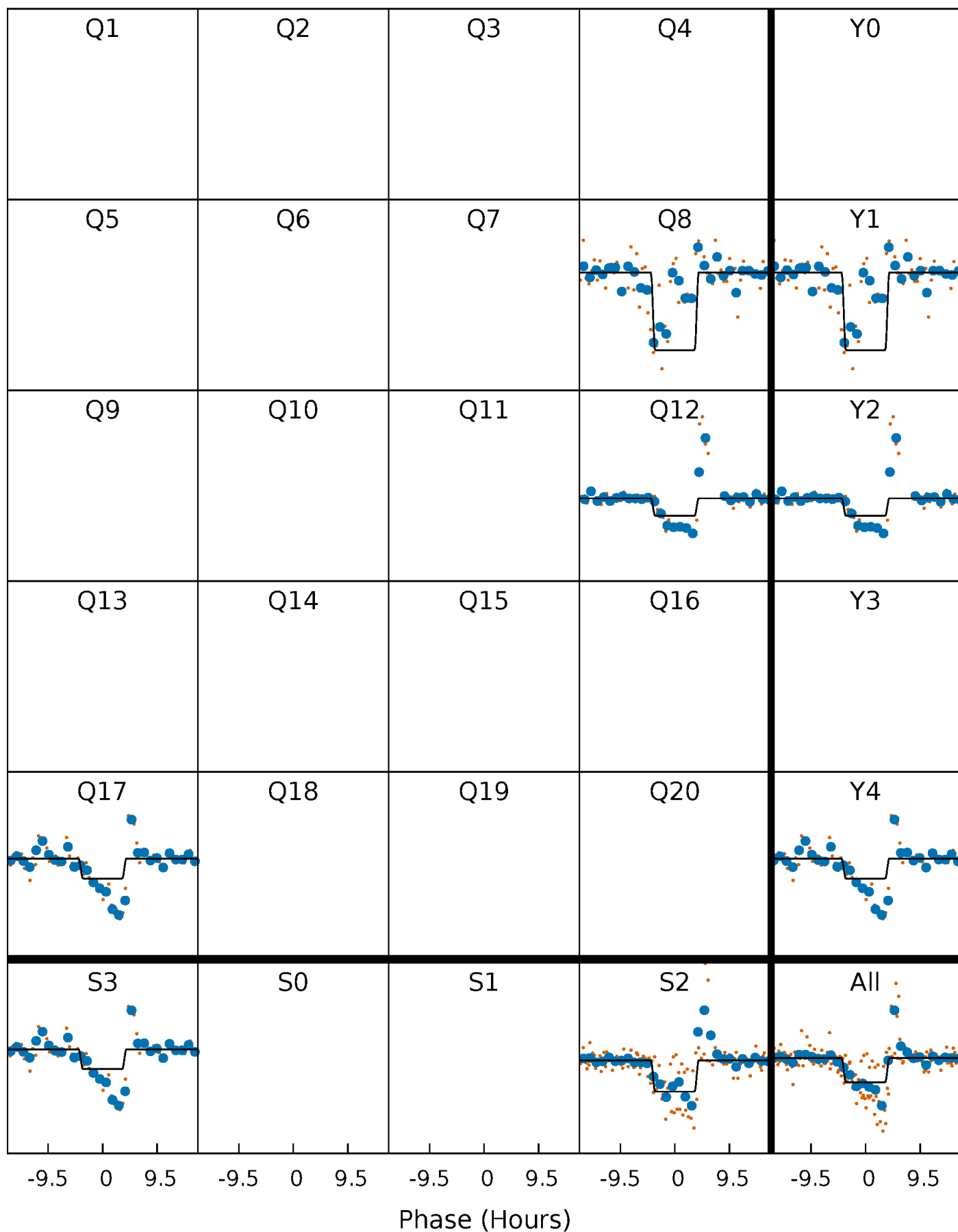
DV Quarter-Phased Transit Curves

TCE 011192887-03 $P=388.489200$ Days $T_0=398.725778$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

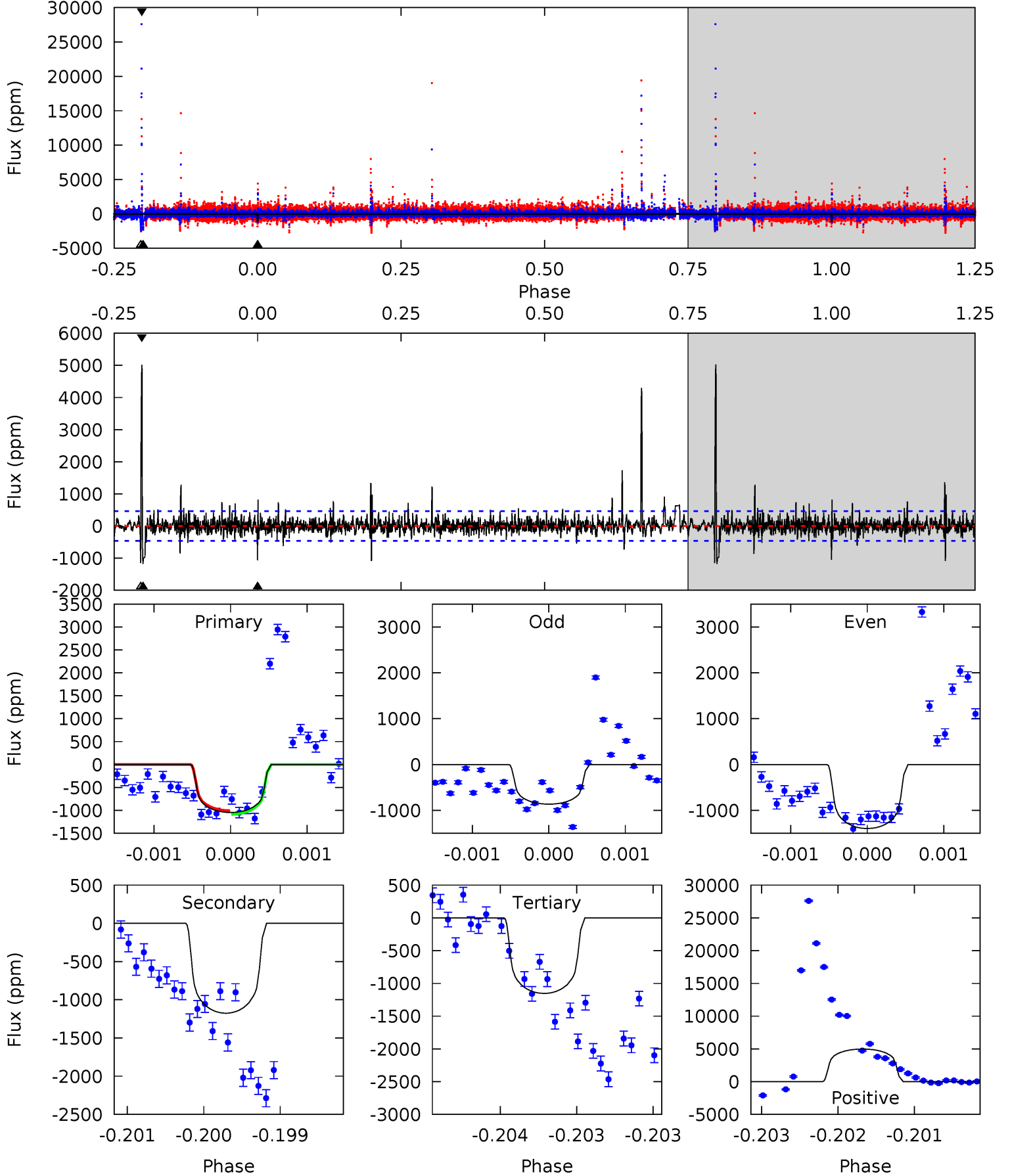
TCE 011192887-03 $P=388.476031$ Days $T_0=398.718590$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-03, P = 388.489200 Days, E = 10.236578 Days

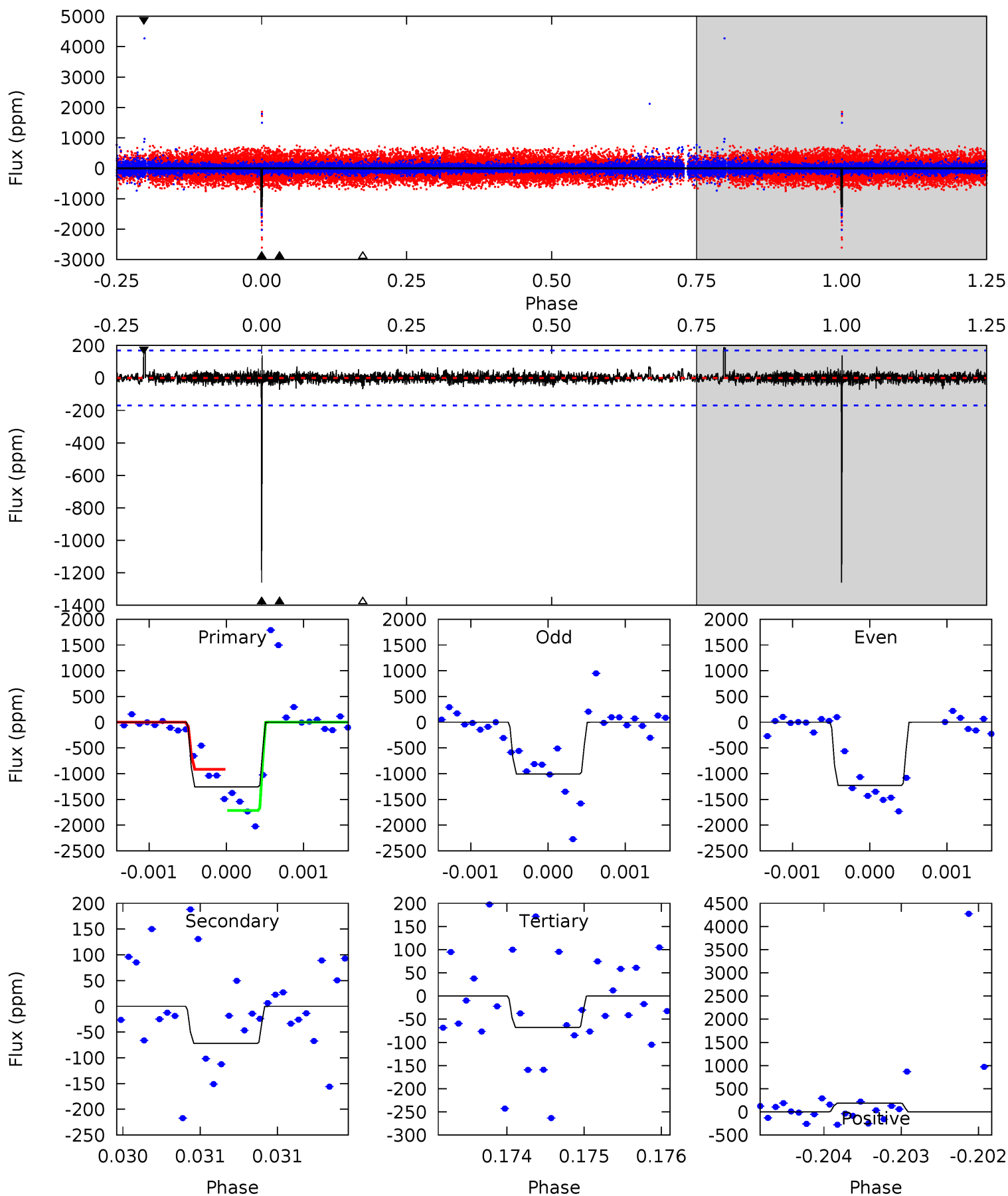
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.4	14.0	13.7	59.2	5.51	3.39	2.68	-1.27	-46.8	0.27	-45.3	1.74	0.95	0.81	0.50



Alt Model-Shift Uniqueness Test

011192887-03, P = 388.476031 Days, E = 10.242559 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
40.7	2.33	2.20	6.07	5.48	3.33	0.52	38.5	34.6	0.13	-3.74	3.74	0.83	0.13	12.7



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1176 ± 84	$2.31^{+1.03}_{-0.99}$	265^{+10}_{-10}	5196^{+1567}_{-763}	$96182^{+200666}_{-49059}$
Alt.	-72 ± 31	$1.92^{+1.09}_{-0.90}$	264^{+10}_{-10}	3301^{+804}_{-465}	8334^{+21173}_{-5549}

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 $A_{obs} \gg 1.0$

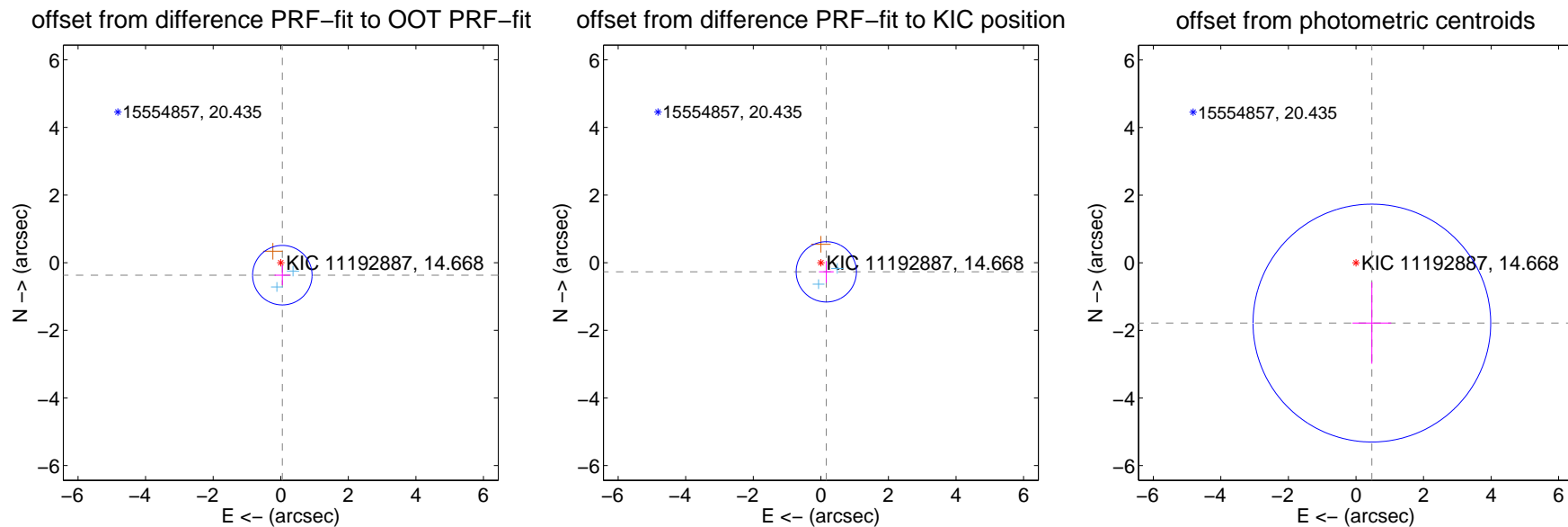
DV Centroid Data

Supplemental centroid analysis for 011192887-03. Kepler magnitude: 14.67. Transit SNR 7.71

There are 2 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.09 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.372 ± 0.293	1.27	-0.047 ± 0.230	-0.369 ± 0.294
PRF-fit source offset from KIC position	0.315 ± 0.297	1.06	-0.161 ± 0.219	-0.271 ± 0.320
photometric centroid source offset	1.85 ± 1.17	1.57	-0.47 ± 0.57	-1.78 ± 1.20

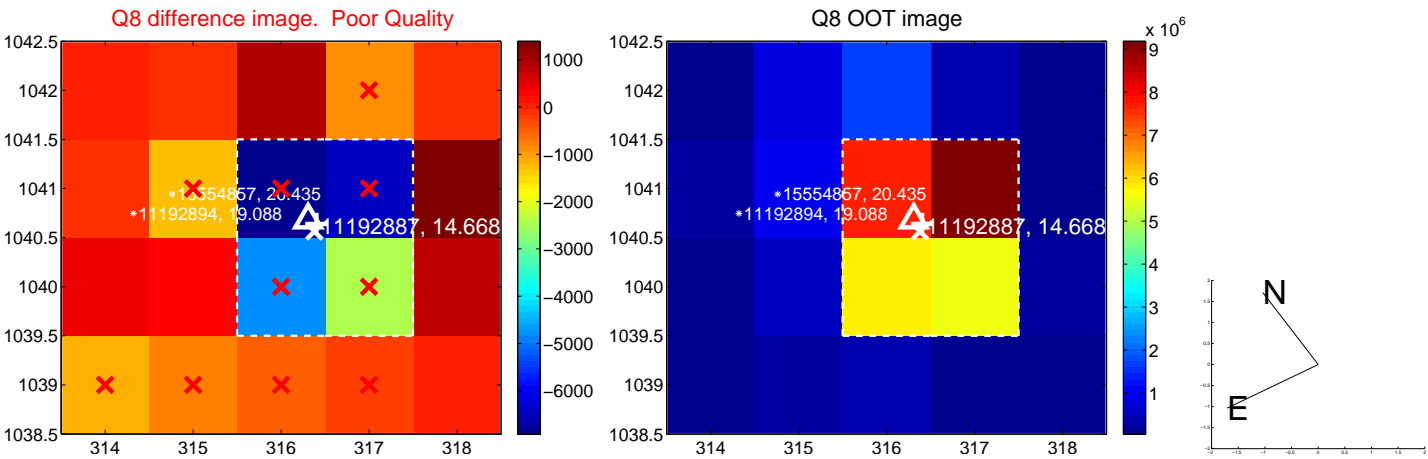
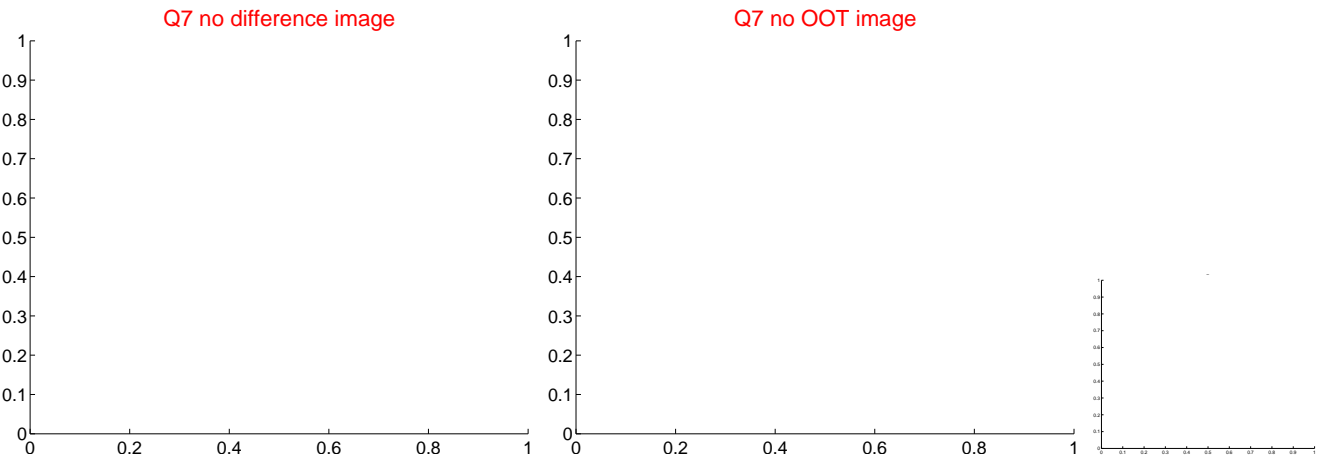
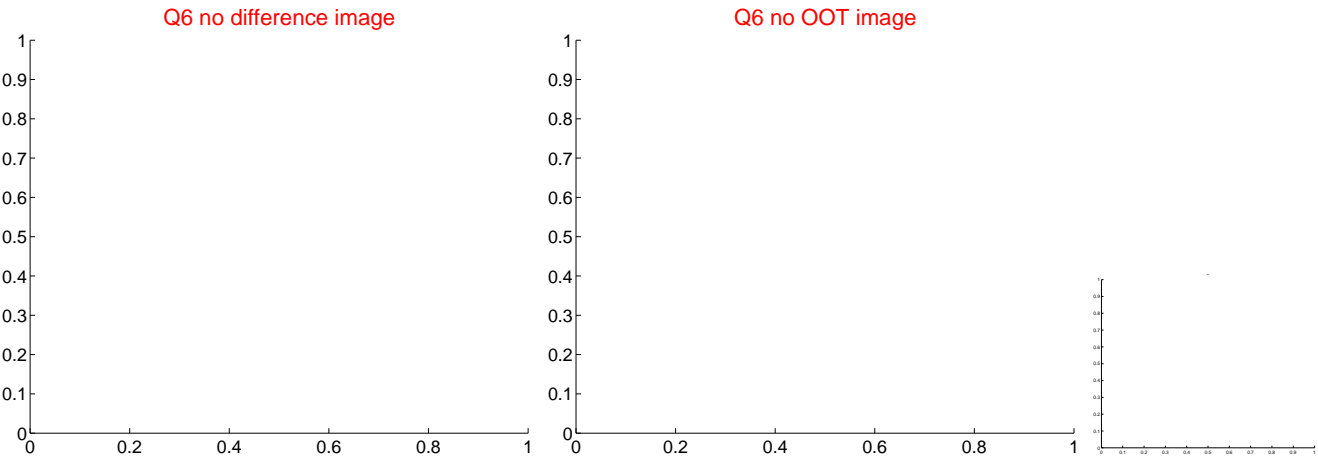
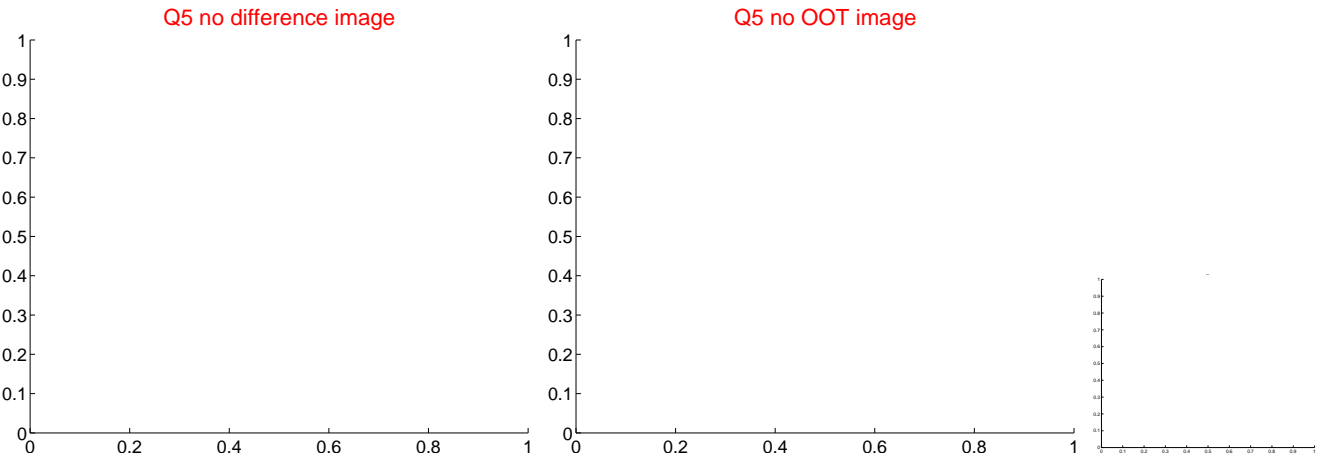


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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



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

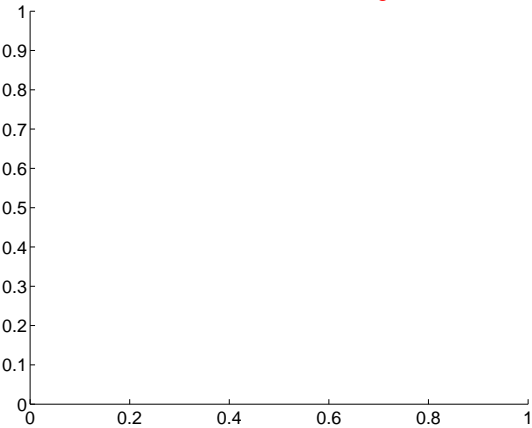
Q9 no difference image



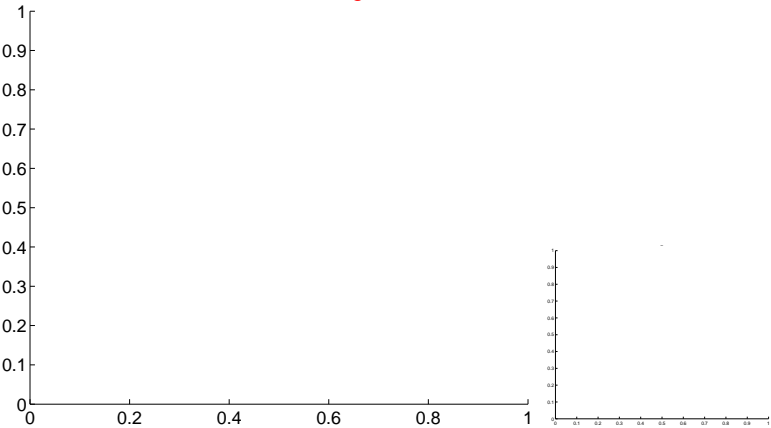
Q9 no OOT image



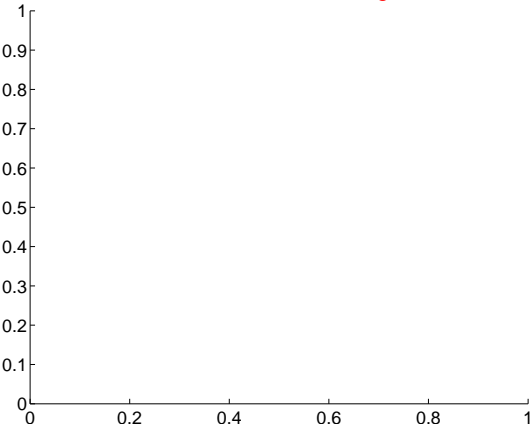
Q10 no difference image



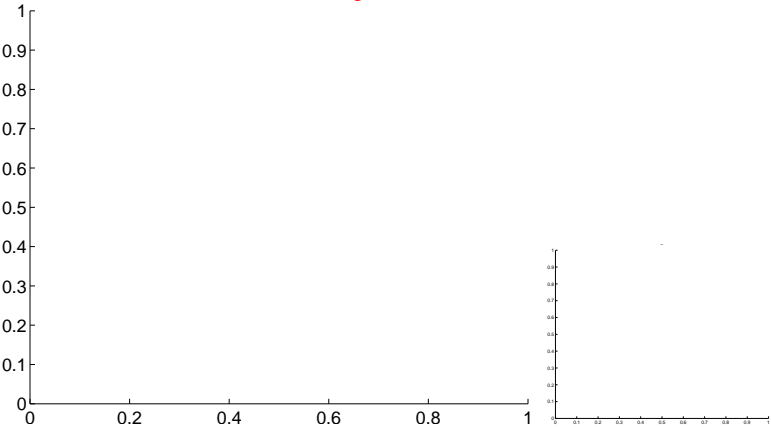
Q10 no OOT image



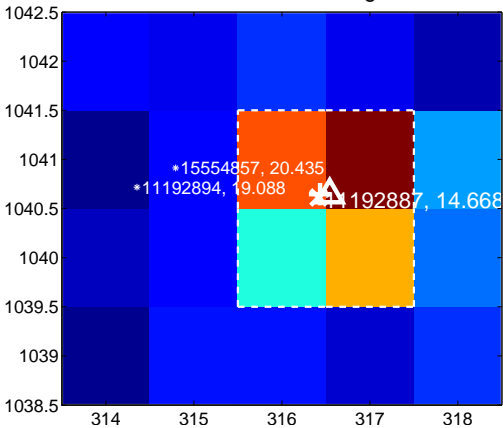
Q11 no difference image



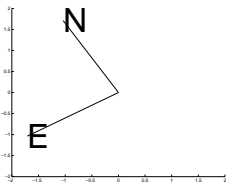
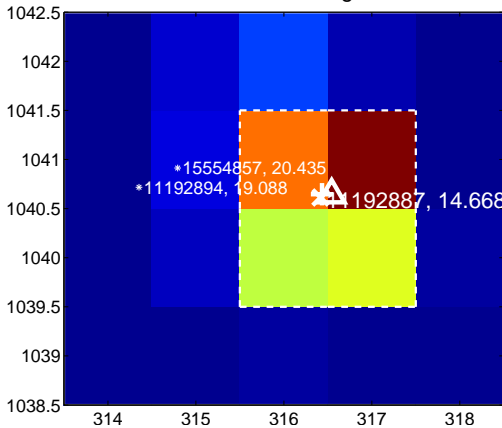
Q11 no OOT image



Q12 difference image



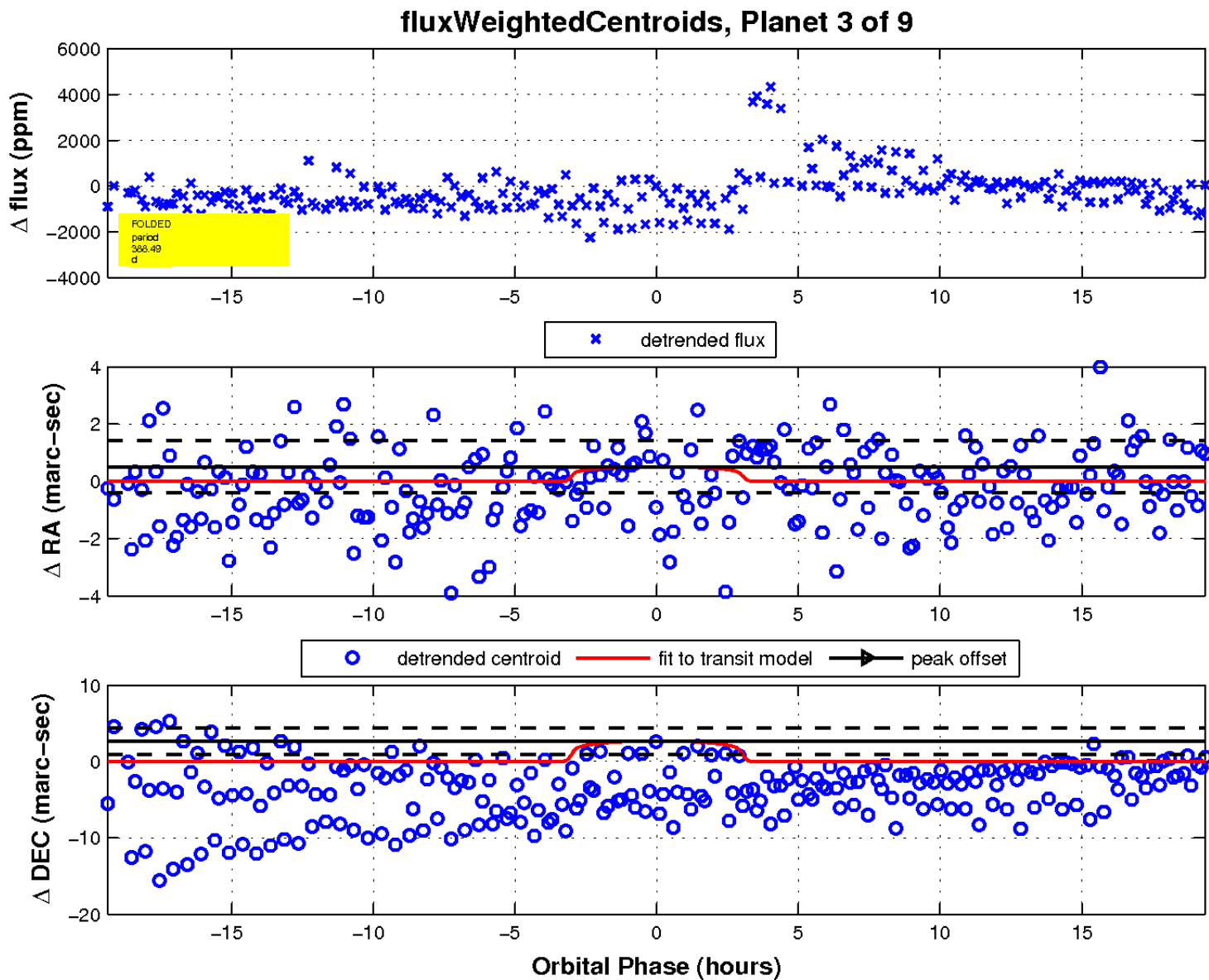
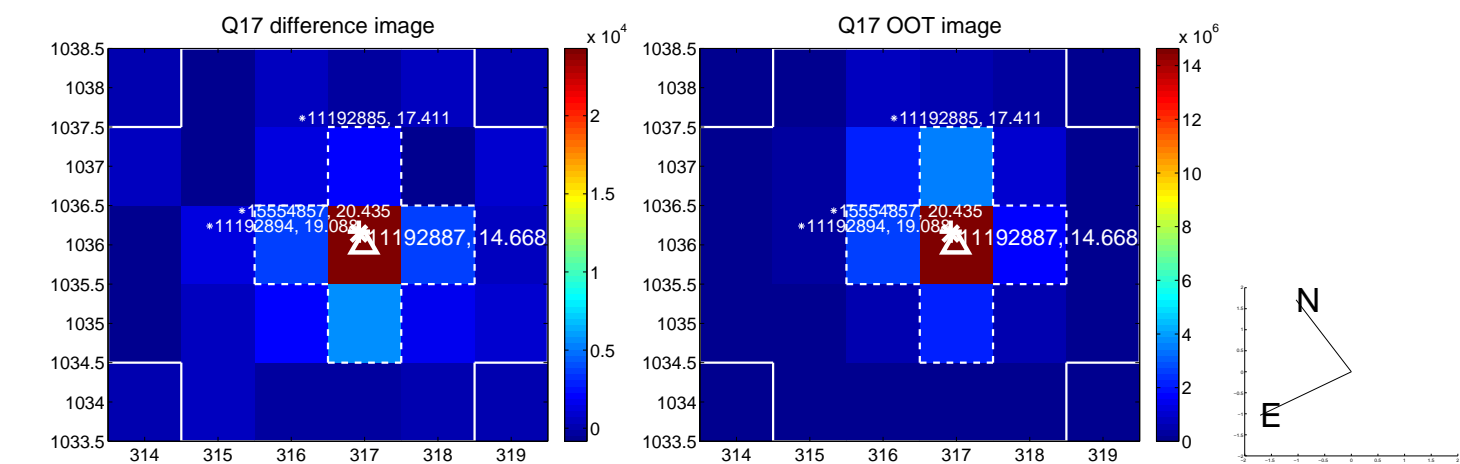
Q12 OOT image



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

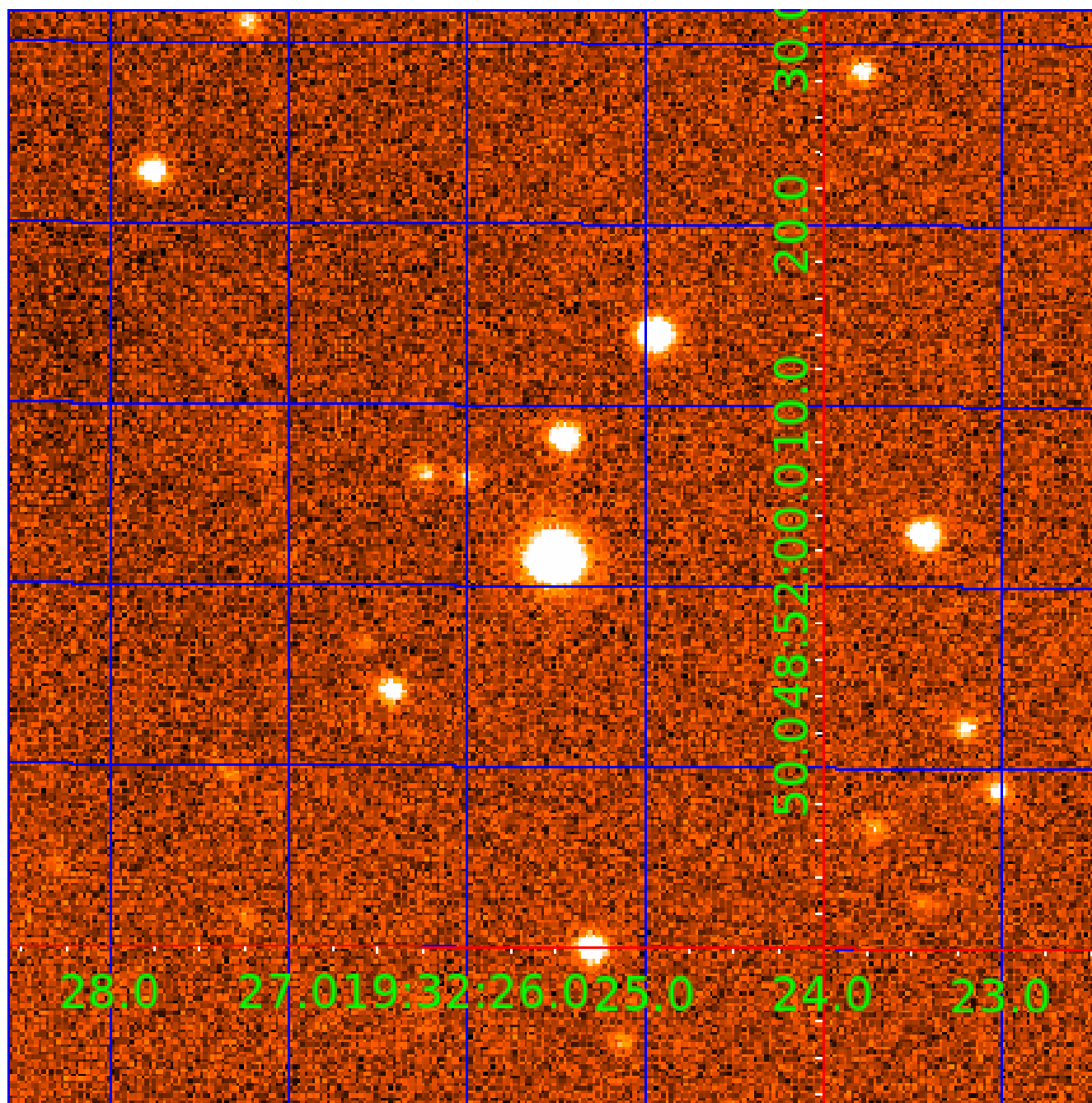


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

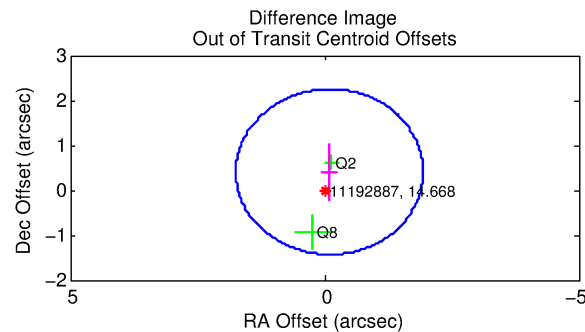
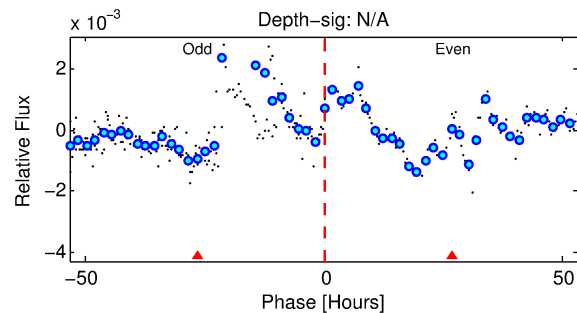
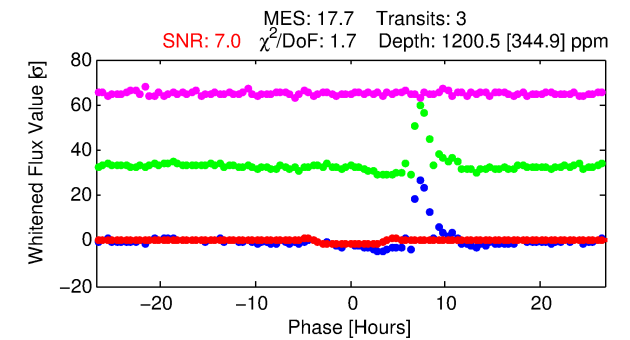
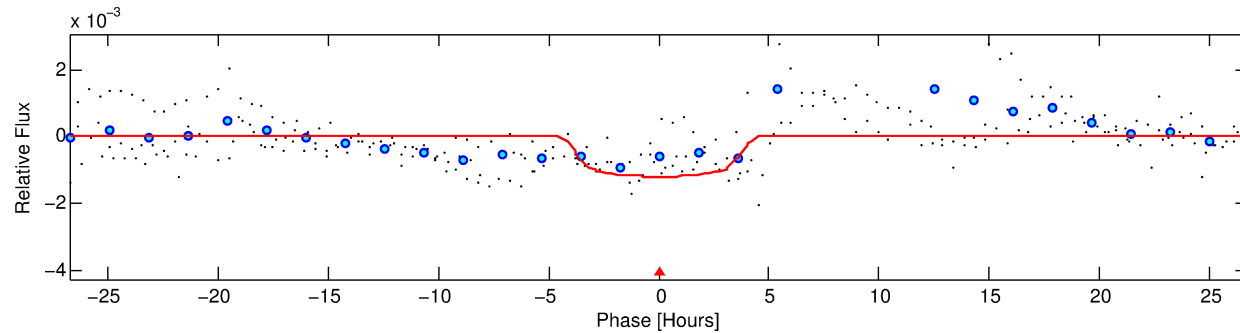
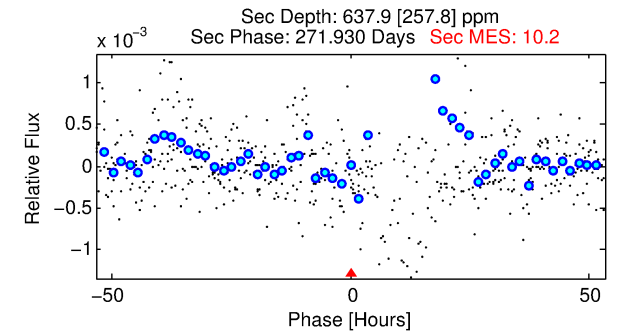
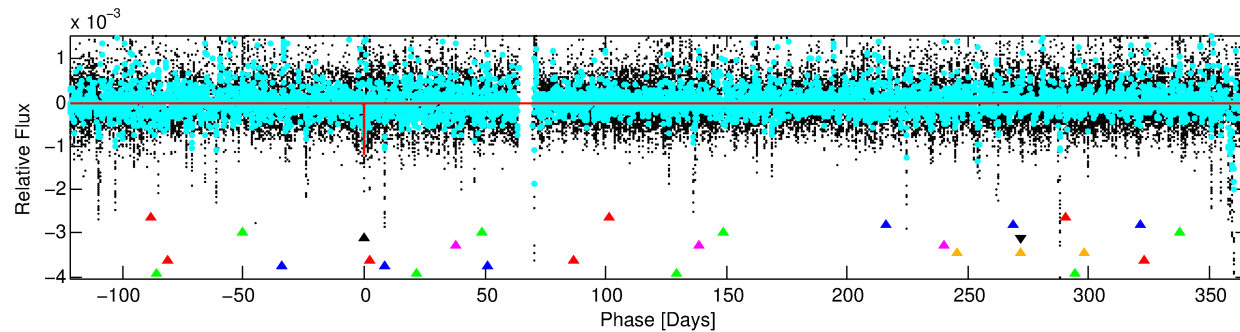
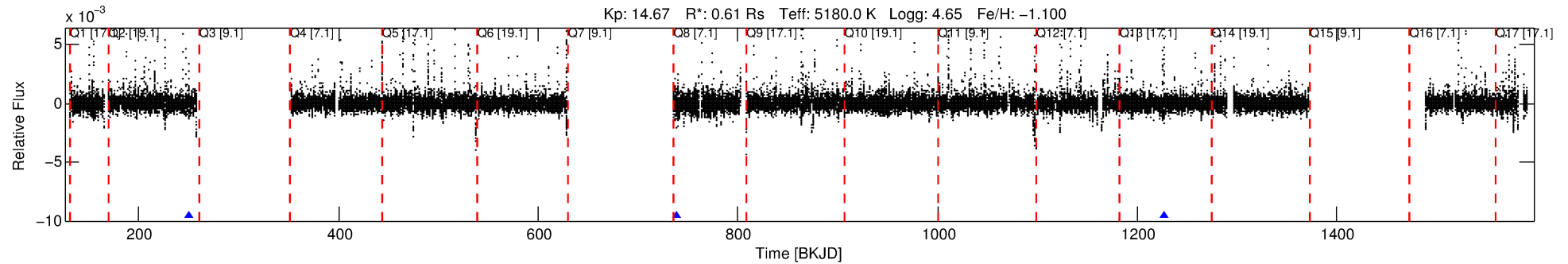
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-04

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 4 of 9 Period: 488.215 d



DV Fit Results:

Period = 488.21546 [0.01618] d
Epoch = 249.9624 [0.0220] BKJD
Rp/R* = 0.0370 [0.0073]
a/R* = 230.70 [116.13]
b = 0.88 [0.13]
Seff = 0.23 [0.04]
Teq = 176 [7] K
Rp = 2.48 [0.52] Re
a = 1.0290 [0.0681] AU
Ag = 60604.05 [34726.25] [1.75 σ]
Teffp = 4279 [619] K [6.63 σ]

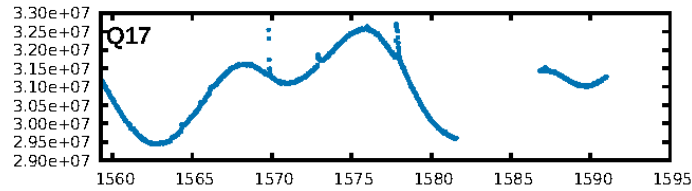
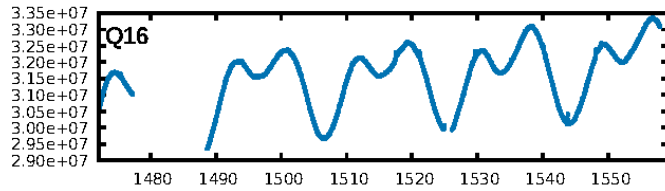
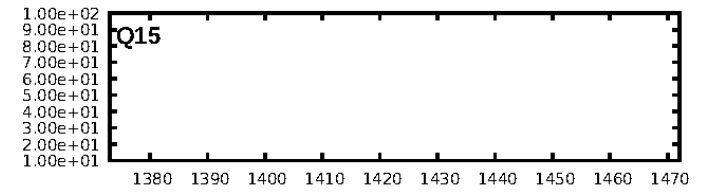
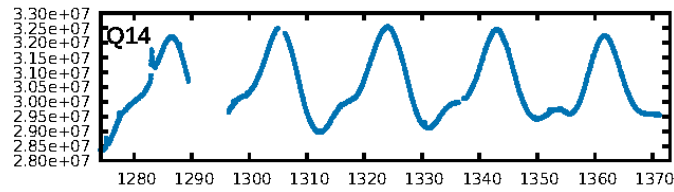
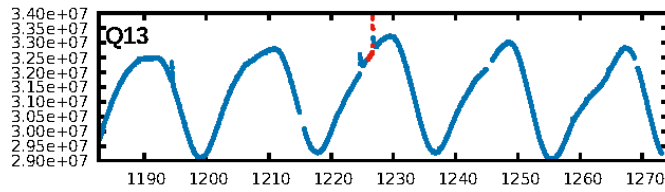
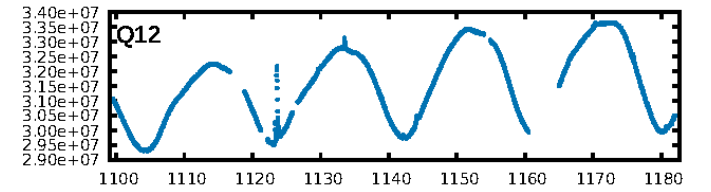
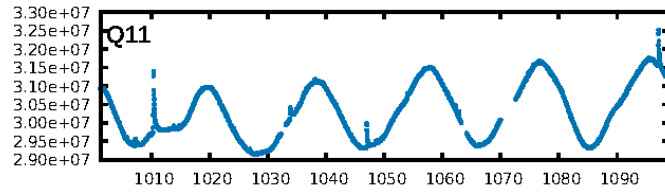
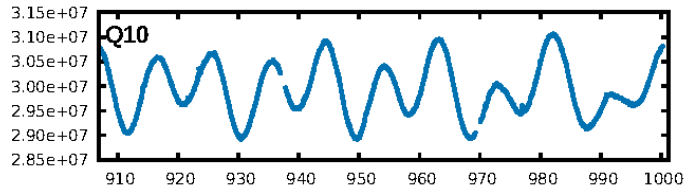
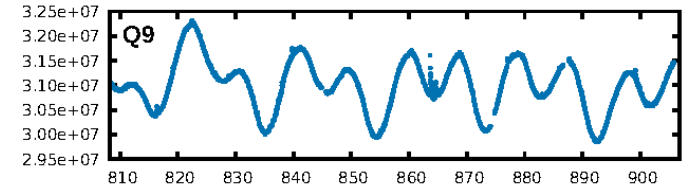
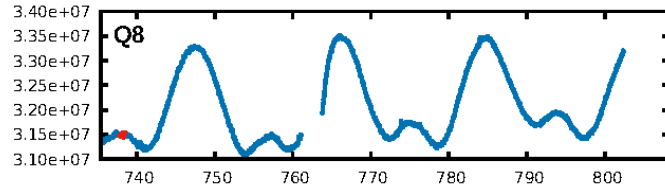
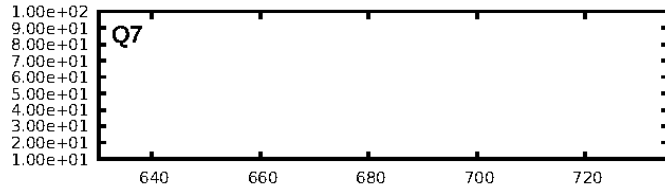
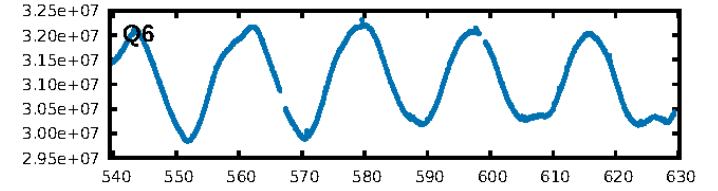
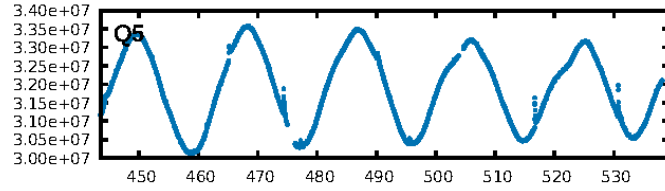
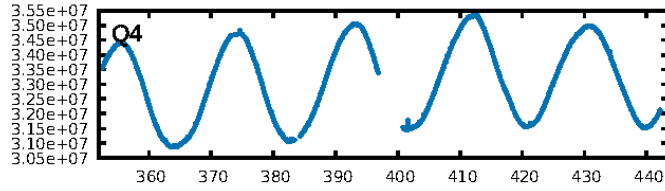
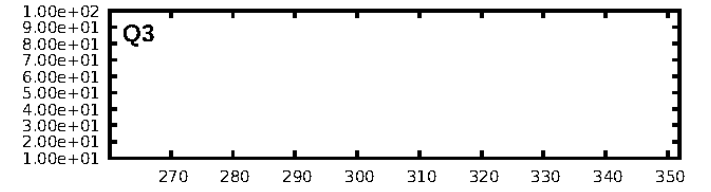
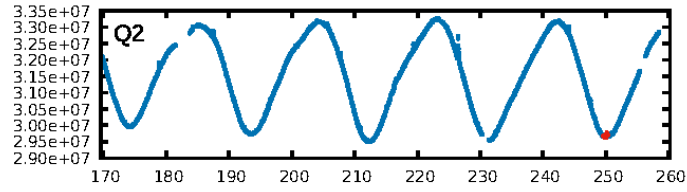
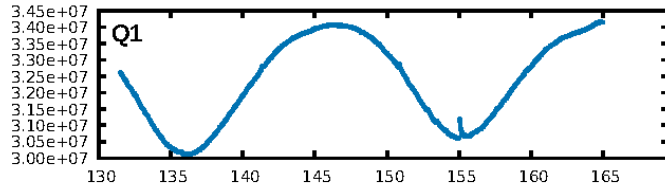
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [204.76 σ]
LongPeriod-sig: 100.0% [59.01 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 59.8%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.01241
Centroid-sig: 0.3%
Centroid-so: 2.640 arcsec [1.79 σ]
OotOffset-rm: 0.416 arcsec [0.68 σ]
OotOffset-st: 1/0/1/0 [2]
KicOffset-rm: 0.594 arcsec [0.99 σ]
KicOffset-st: 1/0/1/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [2/2]

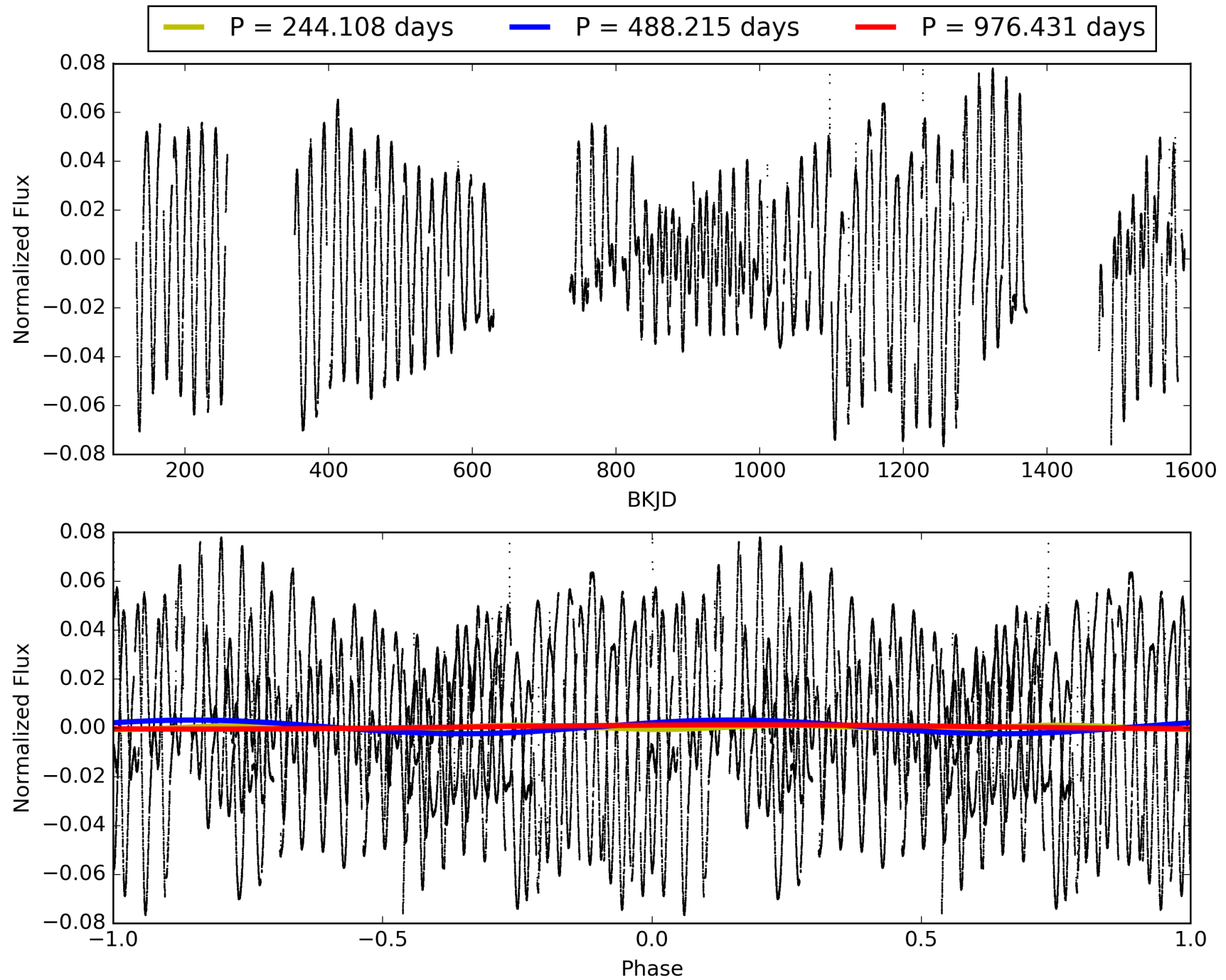
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:42:34 Z

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

TCE 011192887-04, PDC Light Curves

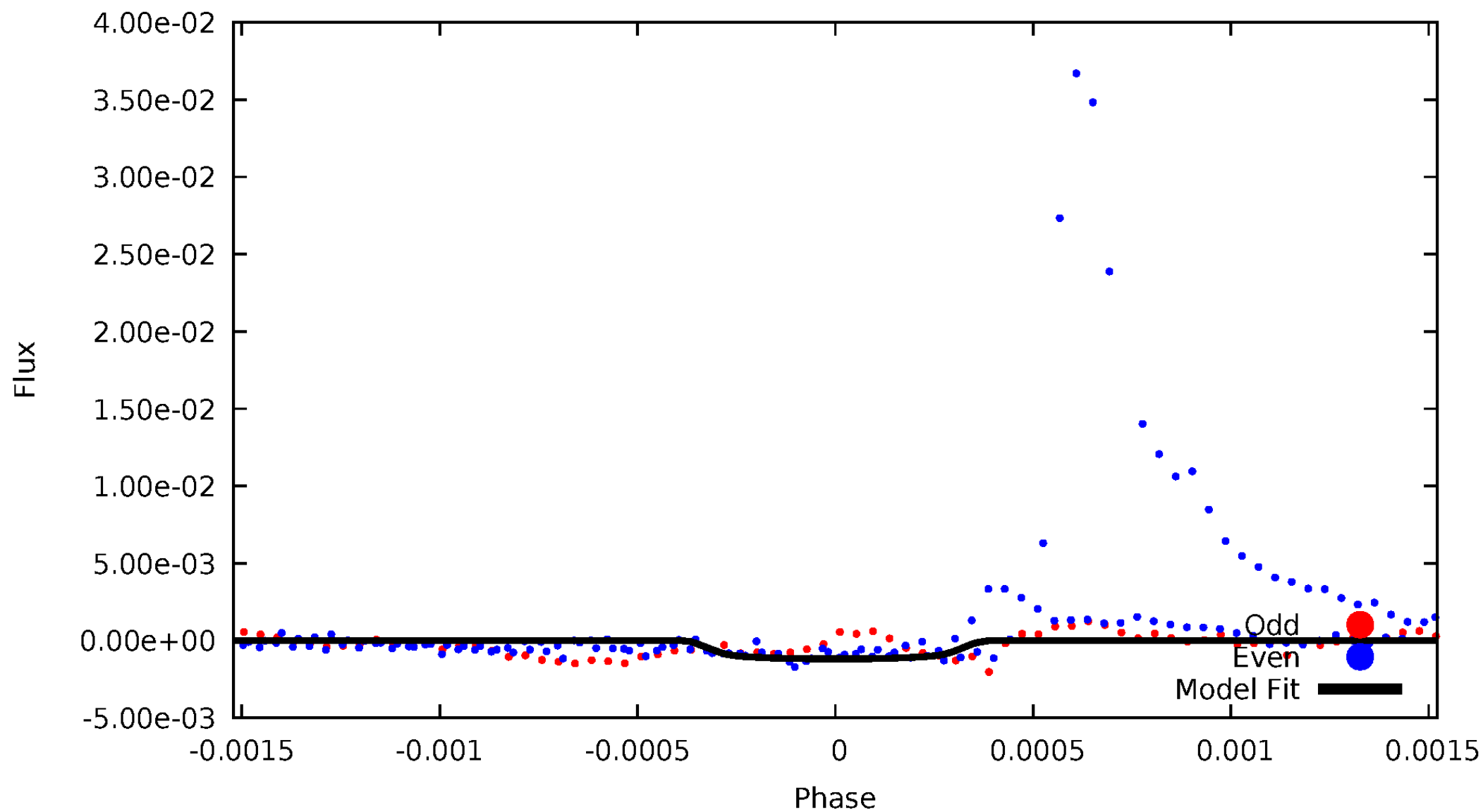


TCE 011192887-04



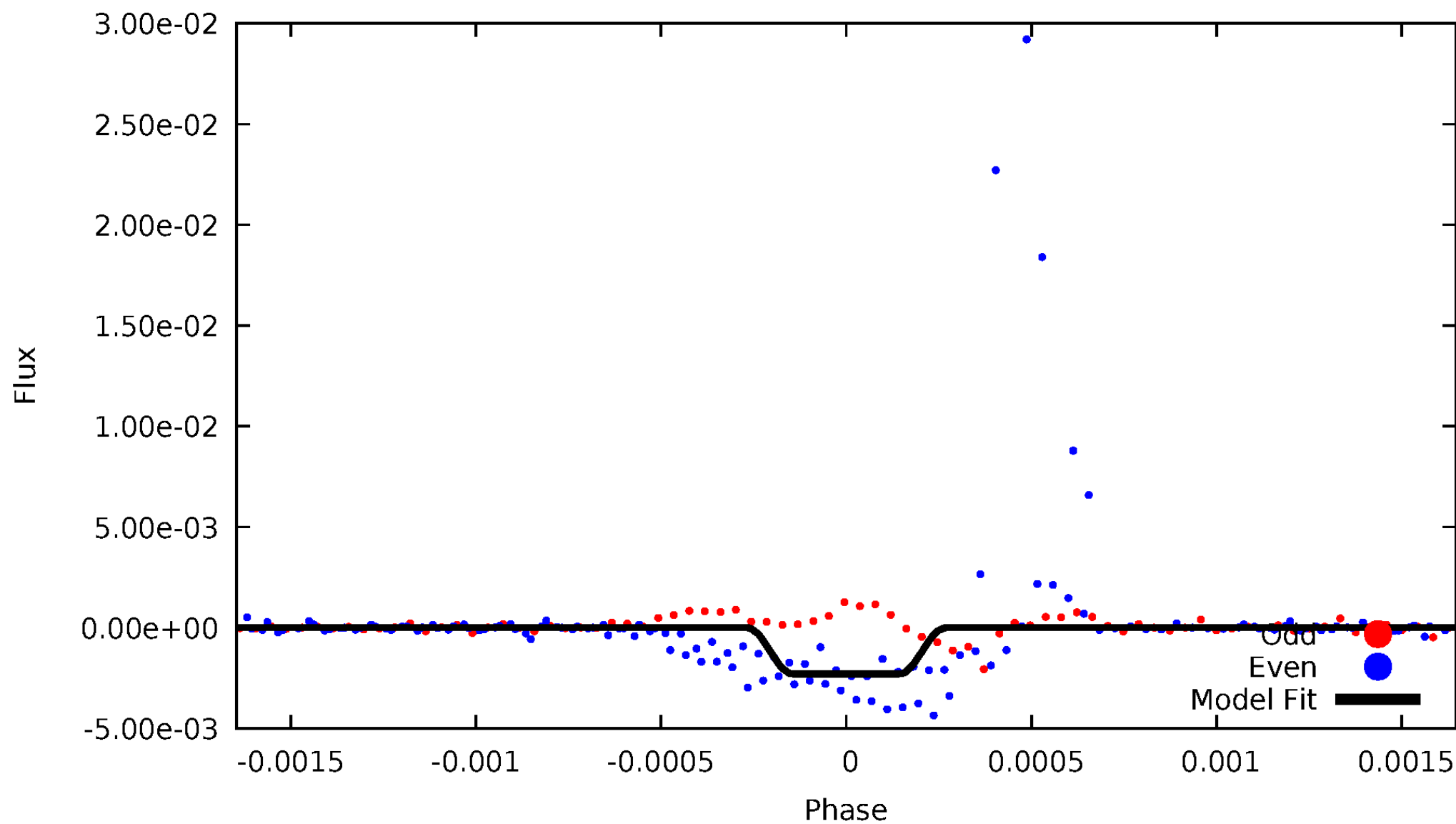
DV Odd/Even

TCE 011192887-04



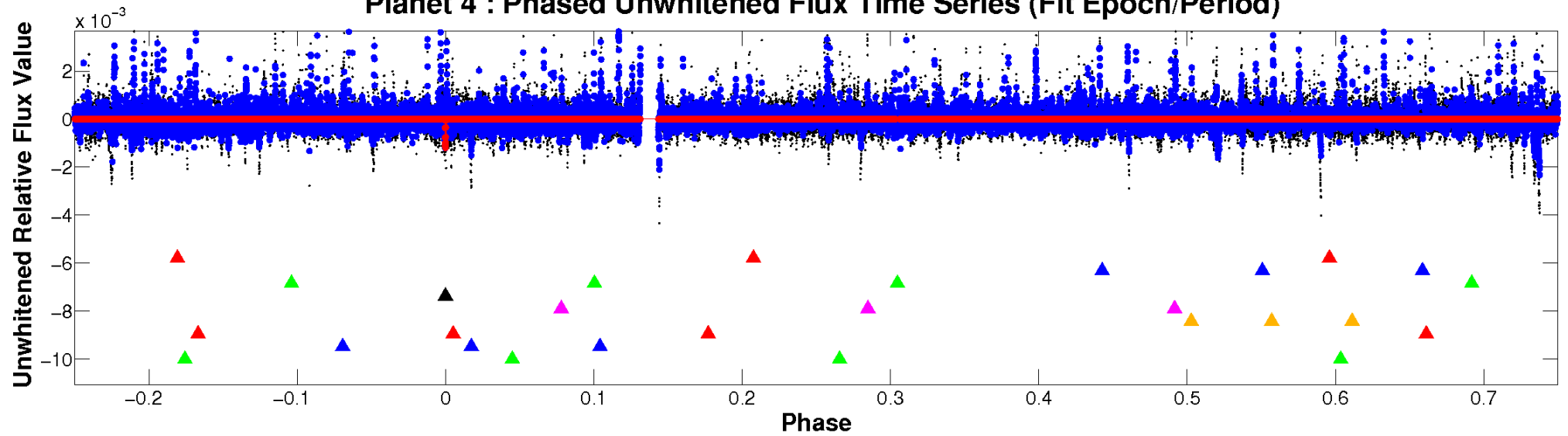
ALT Odd/Even

TCE 011192887-04

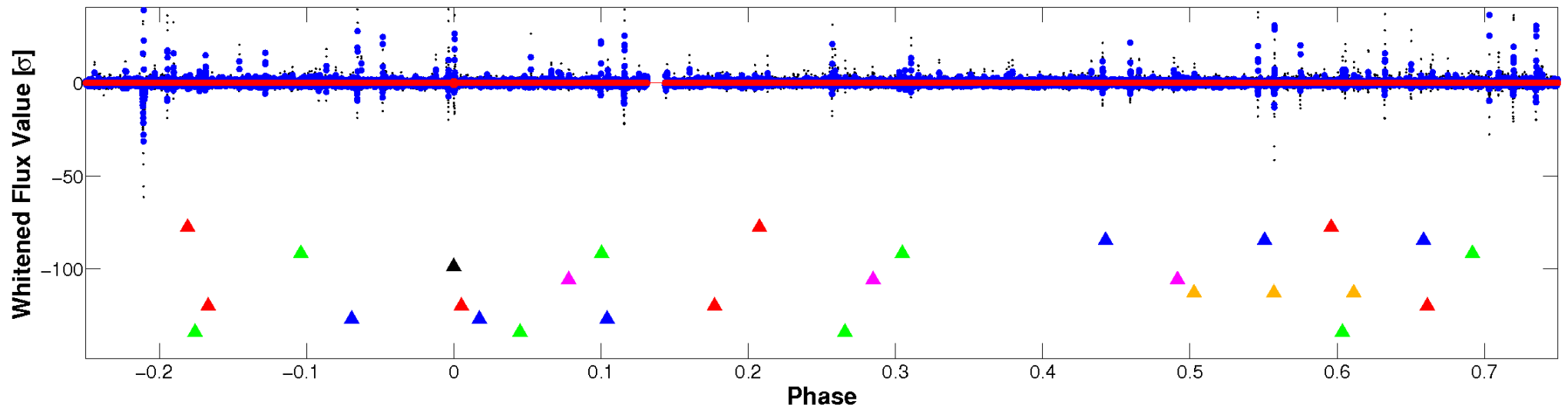


Non-Whitened Vs. Whitened Light Curve

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

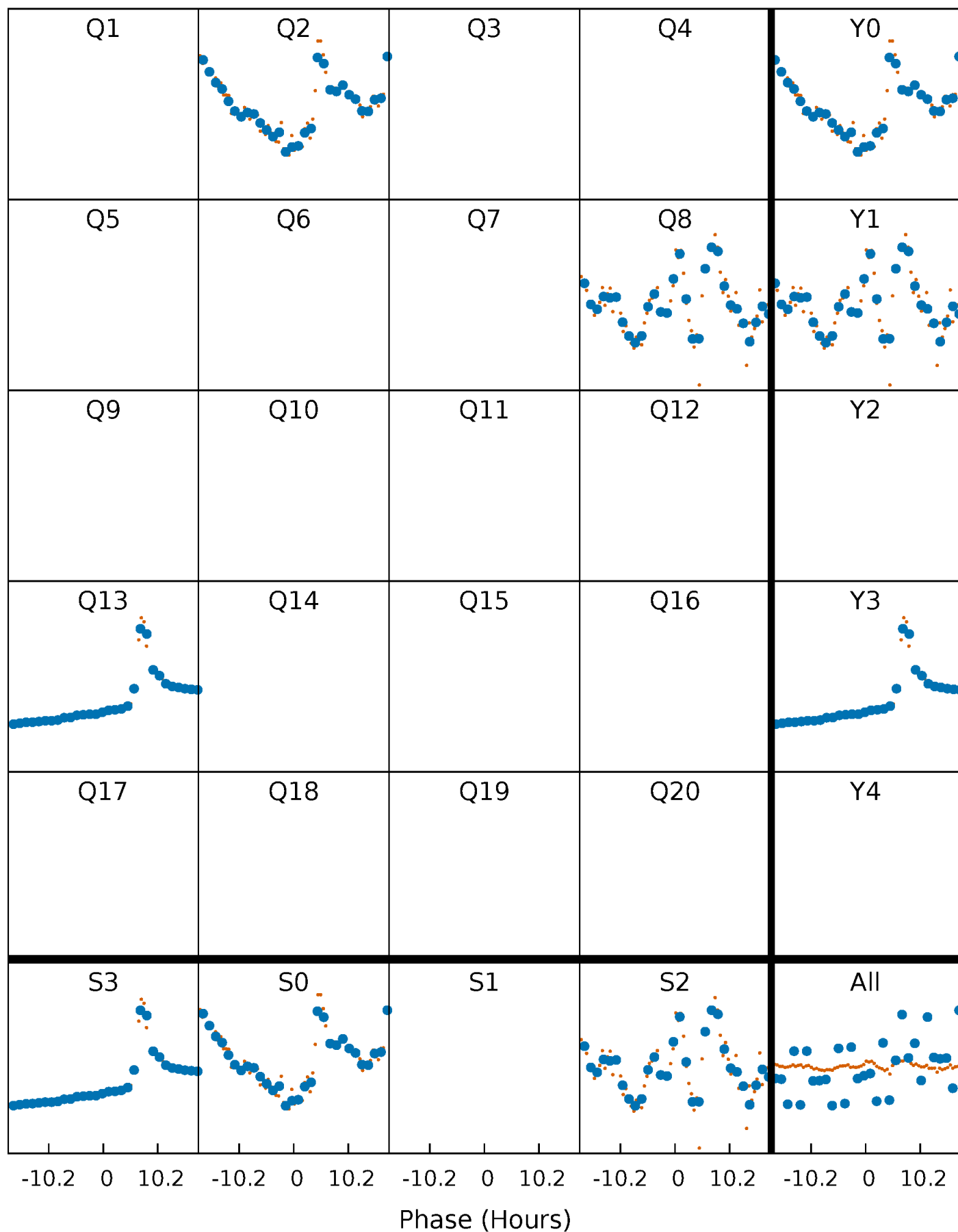


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



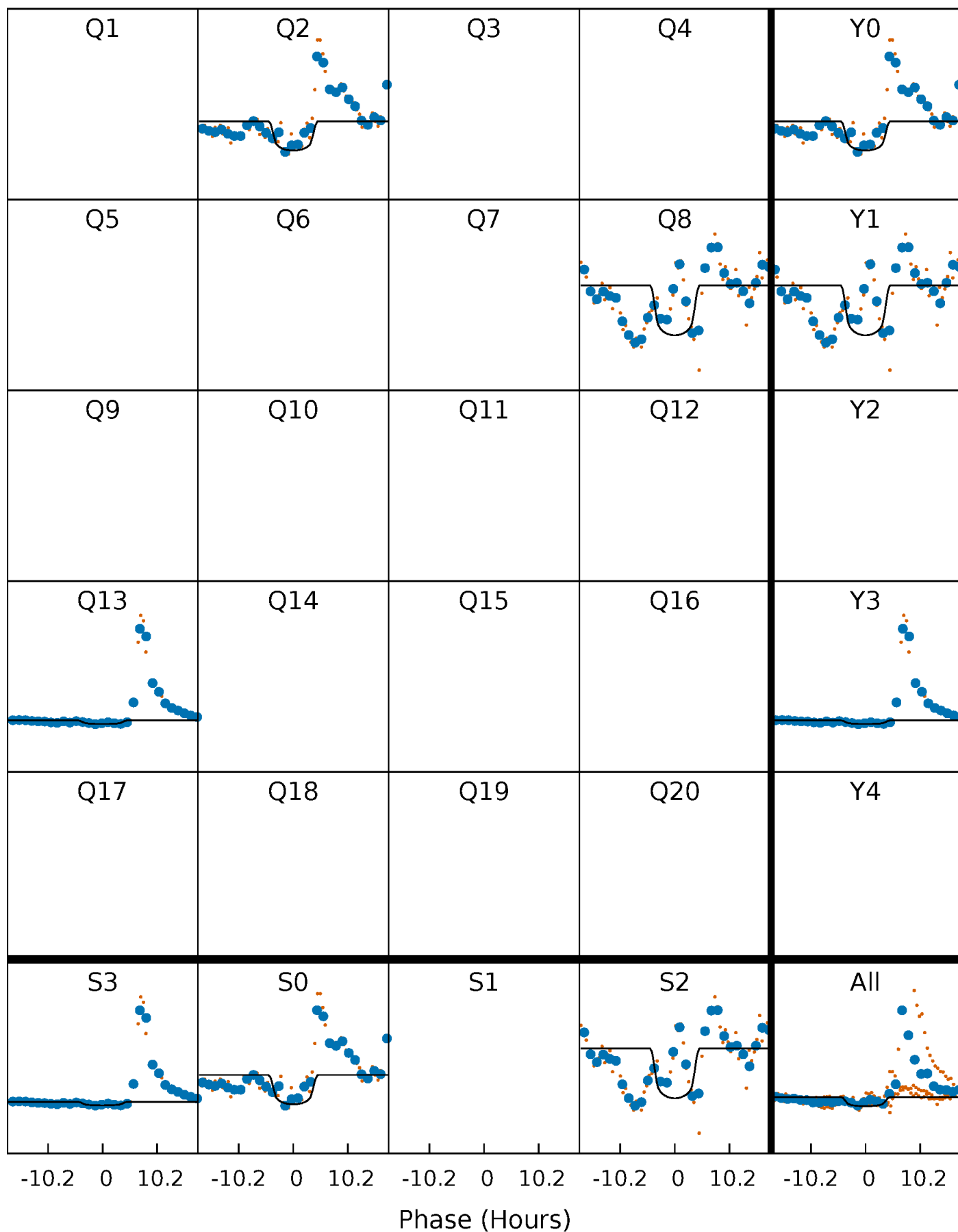
PDC Quarter-Phased Transit Curves

TCE 011192887-04 $P=488.215464$ Days $T_0=249.962415$ (BKJD)



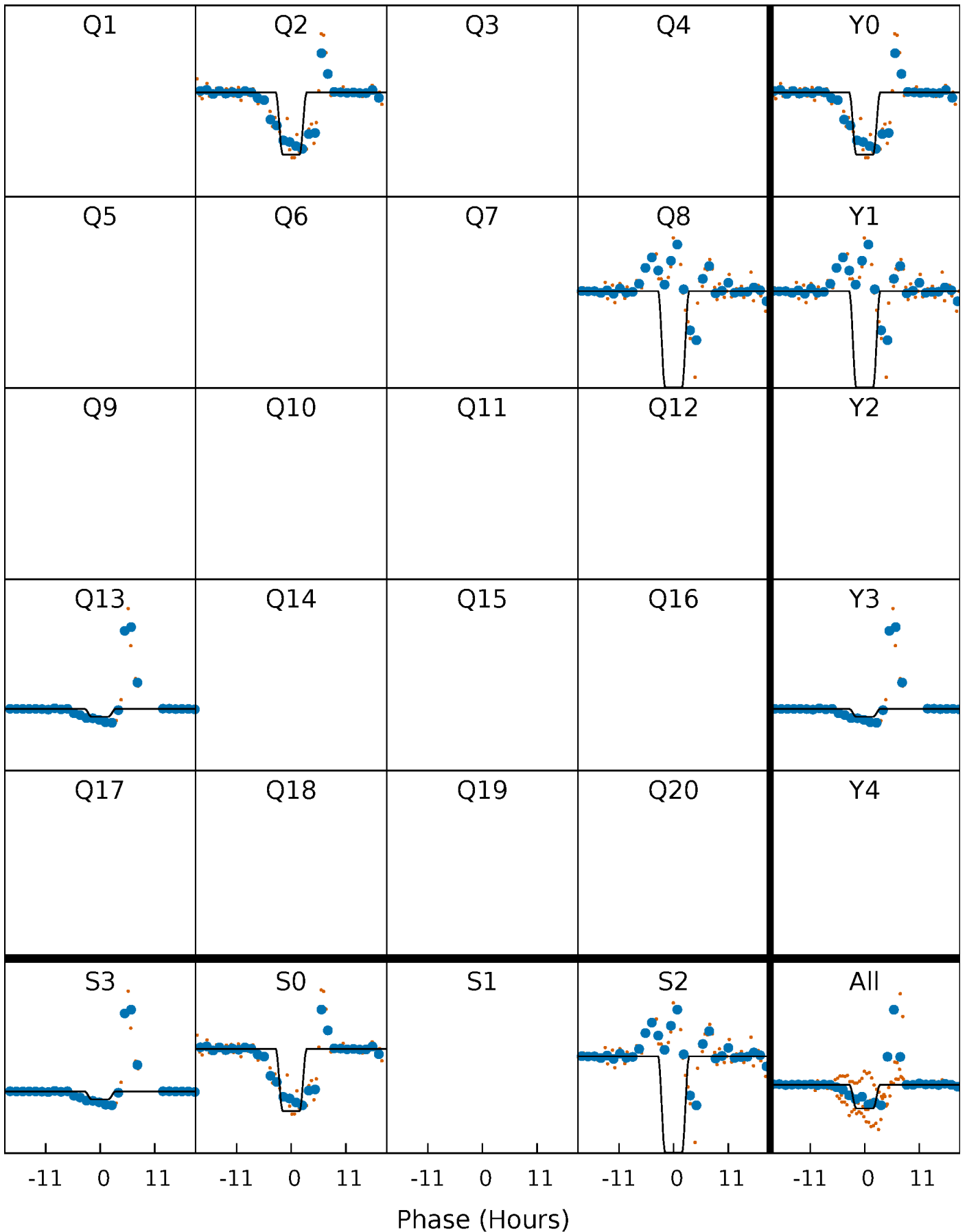
DV Quarter-Phased Transit Curves

TCE 011192887-04 $P=488.215464$ Days $T_0=249.962415$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

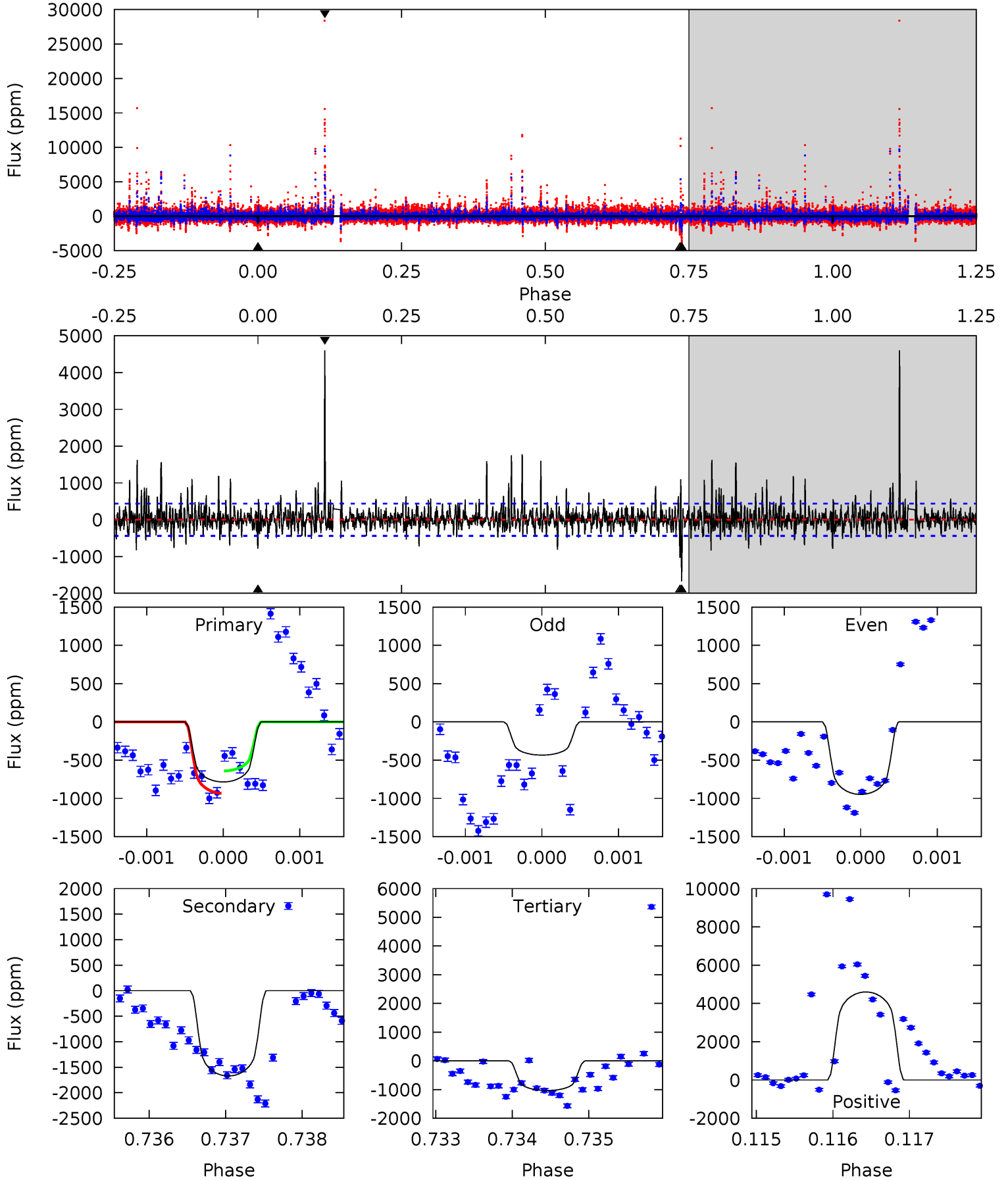
TCE 011192887-04 $P=488.287161$ Days $T_0=249.899036$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-04, P = 488.215464 Days, E = 249.962415 Days

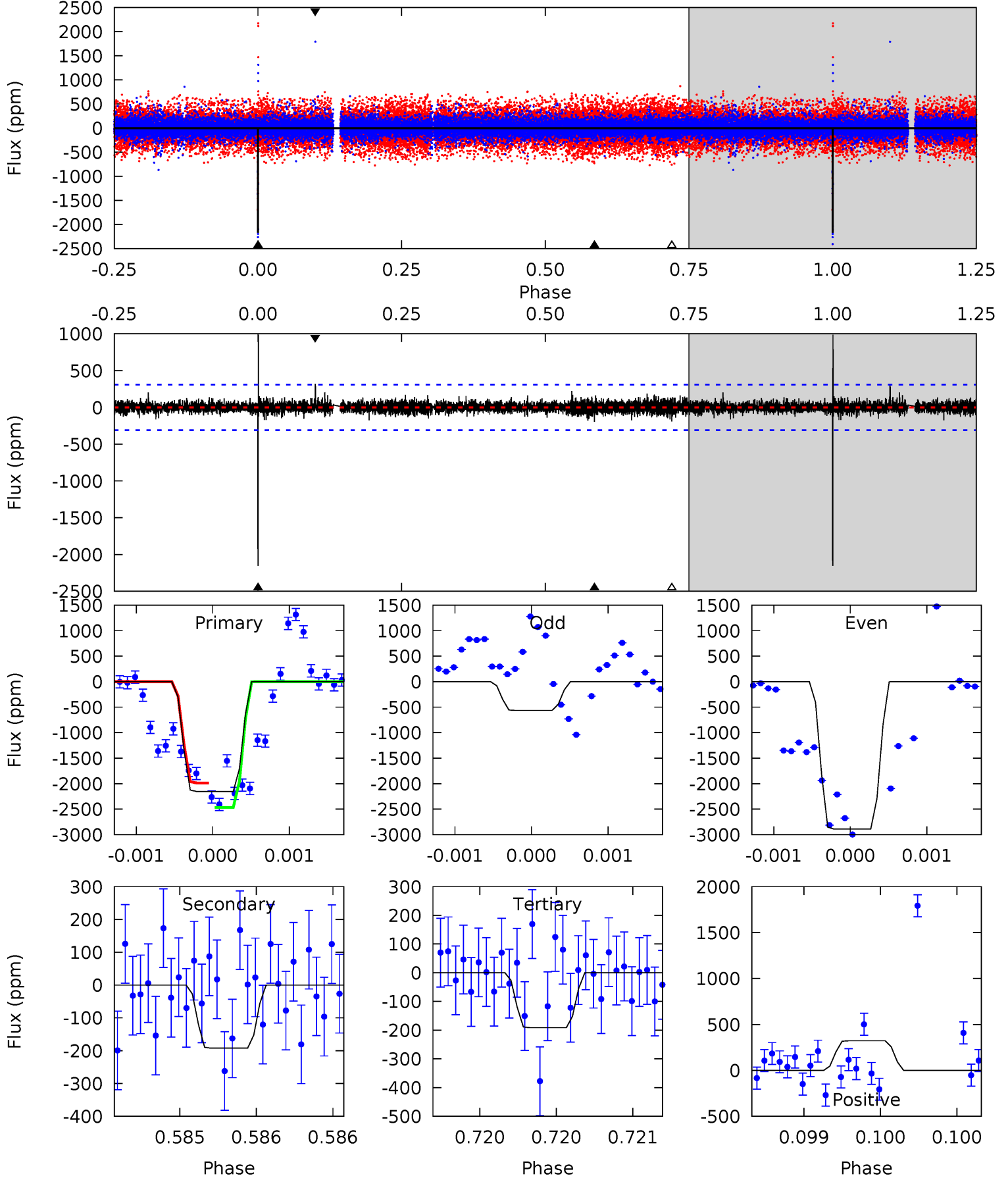
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
9.83	20.9	12.9	57.7	5.49	3.35	3.37	-3.11	-47.8	8.00	-36.7	2.13	0.93	0.73	1.83



Alt Model-Shift Uniqueness Test

011192887-04, P = 488.287161 Days, E = 249.899036 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
38.6	3.45	3.43	5.77	5.57	3.47	0.70	35.2	32.9	0.02	-2.32	32.9	0.82	0.31	0



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-1671 ± 80	$2.46^{+0.52}_{-0.49}$	245^{+9}_{-9}	5420^{+592}_{-448}	163548^{+92529}_{-52198}
Alt.	-192 ± 56	$3.17^{+0.56}_{-0.50}$	245^{+8}_{-9}	3300^{+255}_{-220}	11063^{+6139}_{-4164}

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

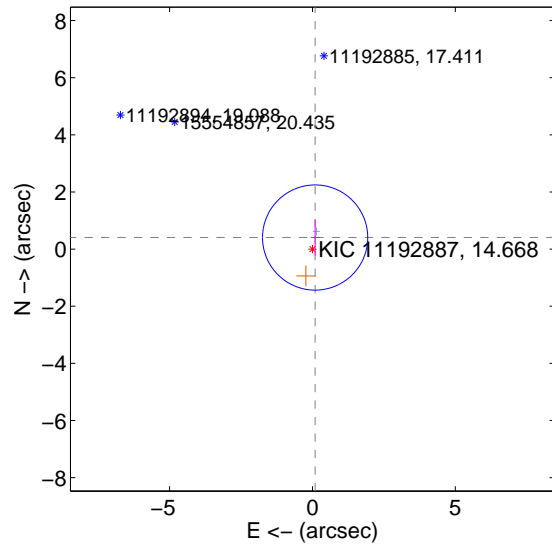
Supplemental centroid analysis for 011192887-04. Kepler magnitude: 14.67. Transit SNR 6.98

There are 1 quarters with good PRF difference image offsets

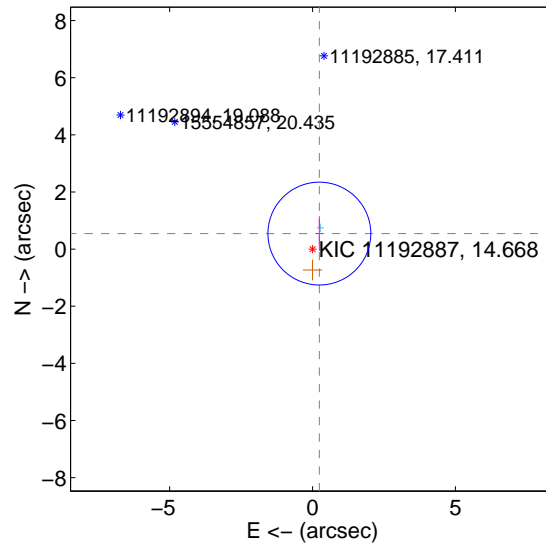
The direct PRF centroid is offset from the target star catalog position by about 0.31 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.416 ± 0.614	0.68	-0.094 ± 0.154	0.405 ± 0.629
PRF-fit source offset from KIC position	0.594 ± 0.600	0.99	-0.239 ± 0.130	0.543 ± 0.606
photometric centroid source offset	2.64 ± 1.47	1.79	0.23 ± 0.61	-2.63 ± 1.48

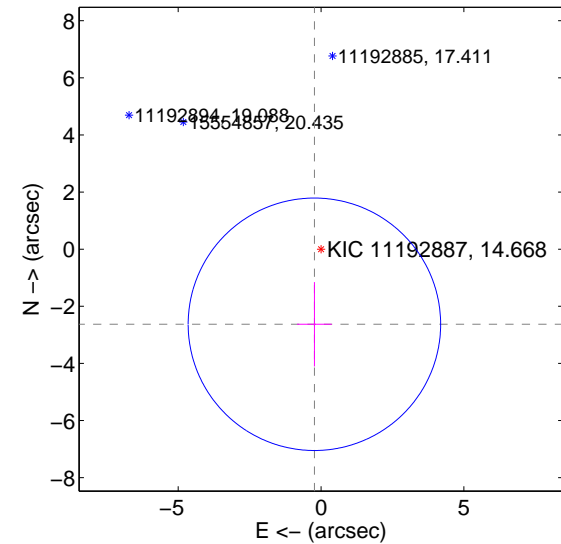
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

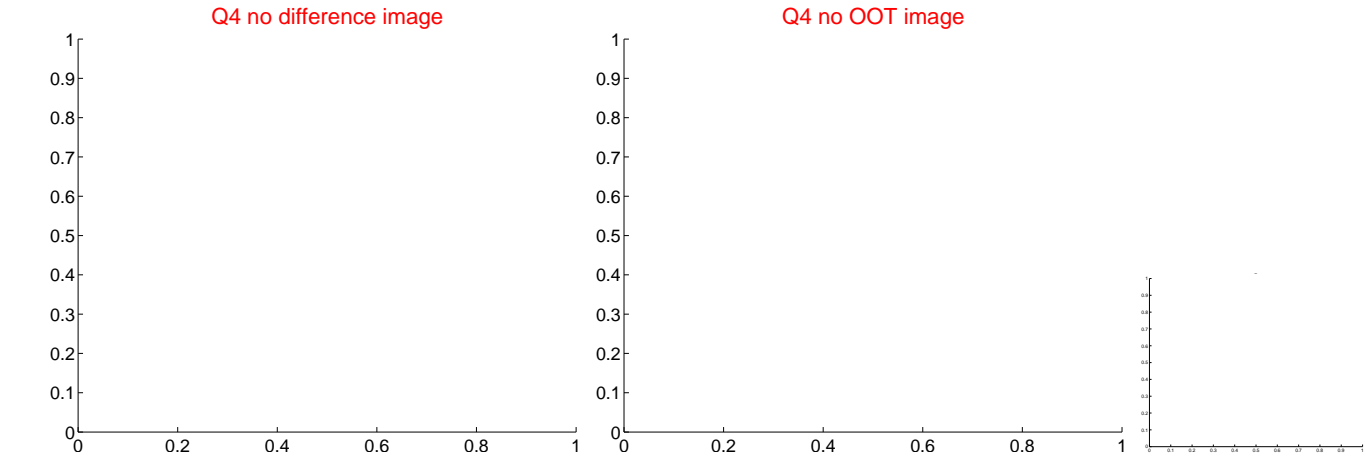
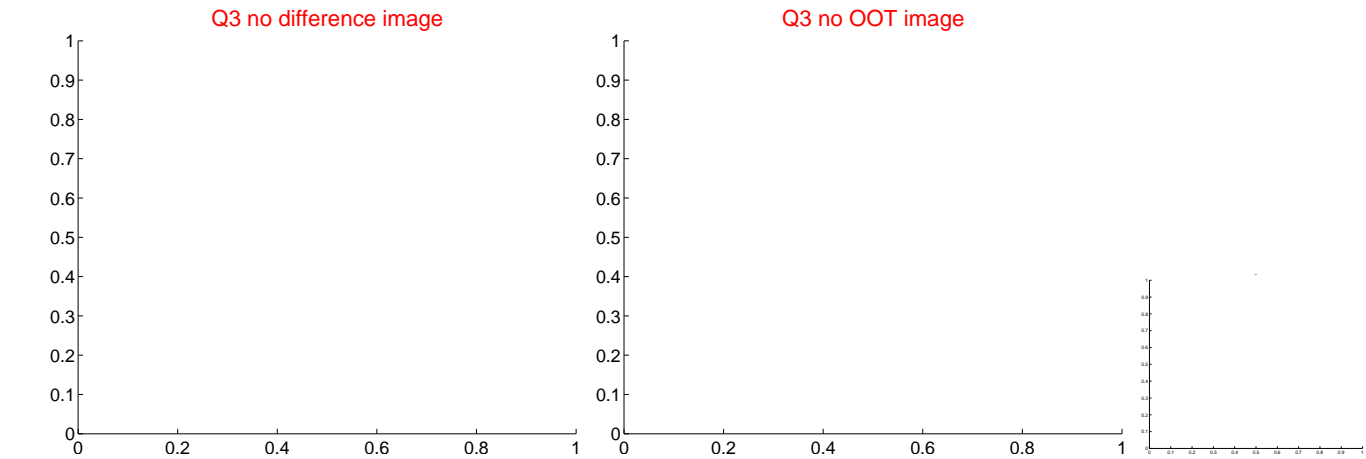
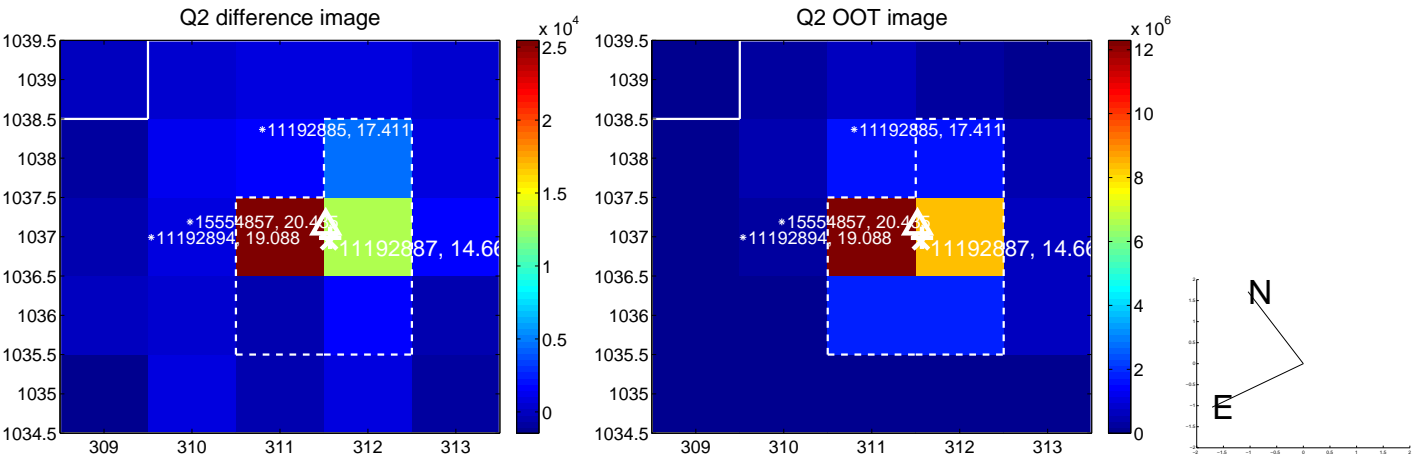
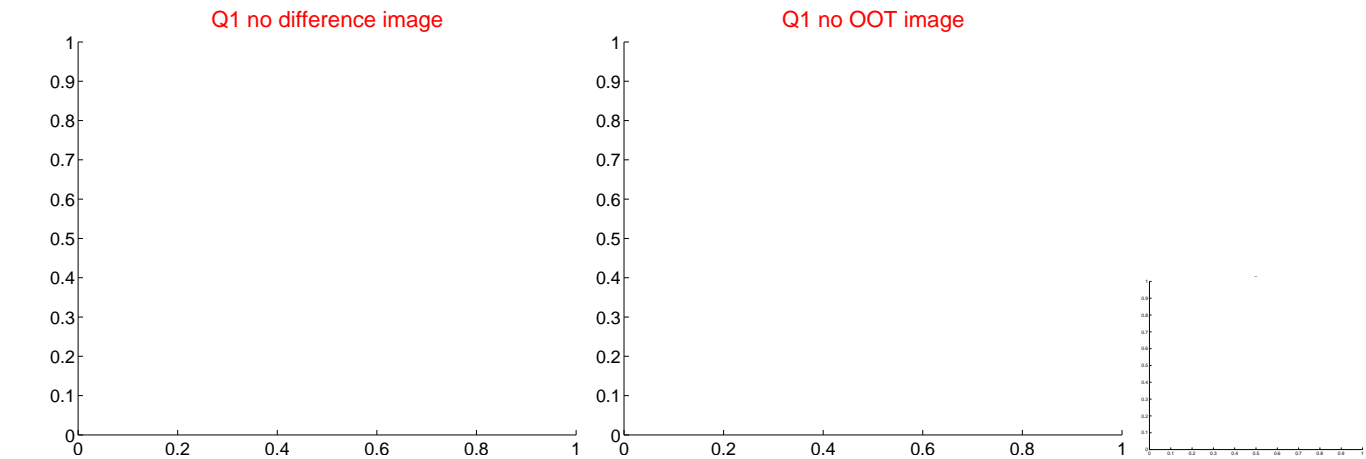


offset from photometric centroids

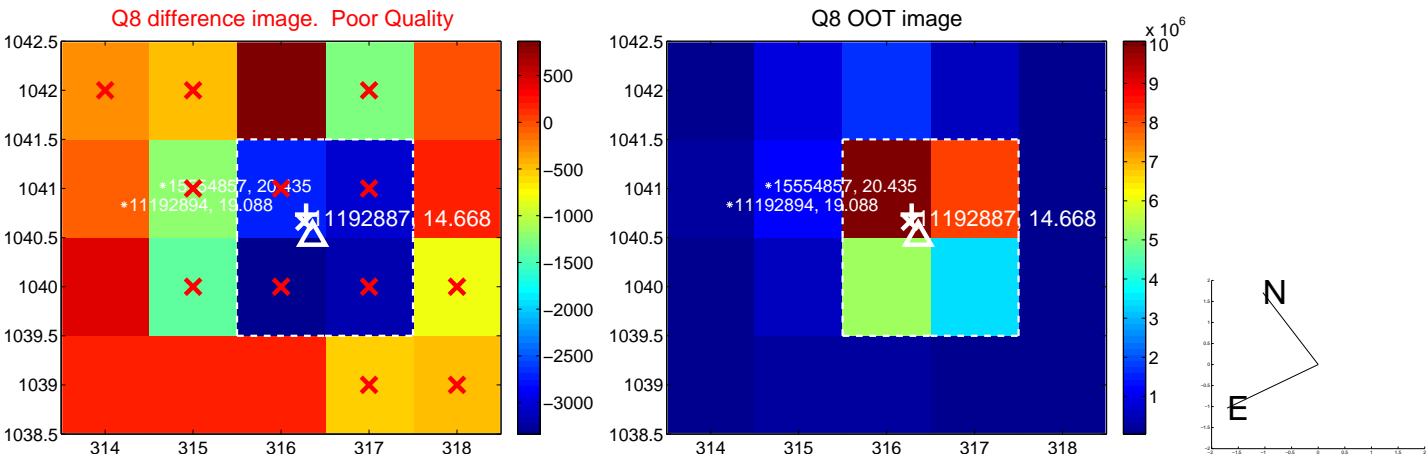
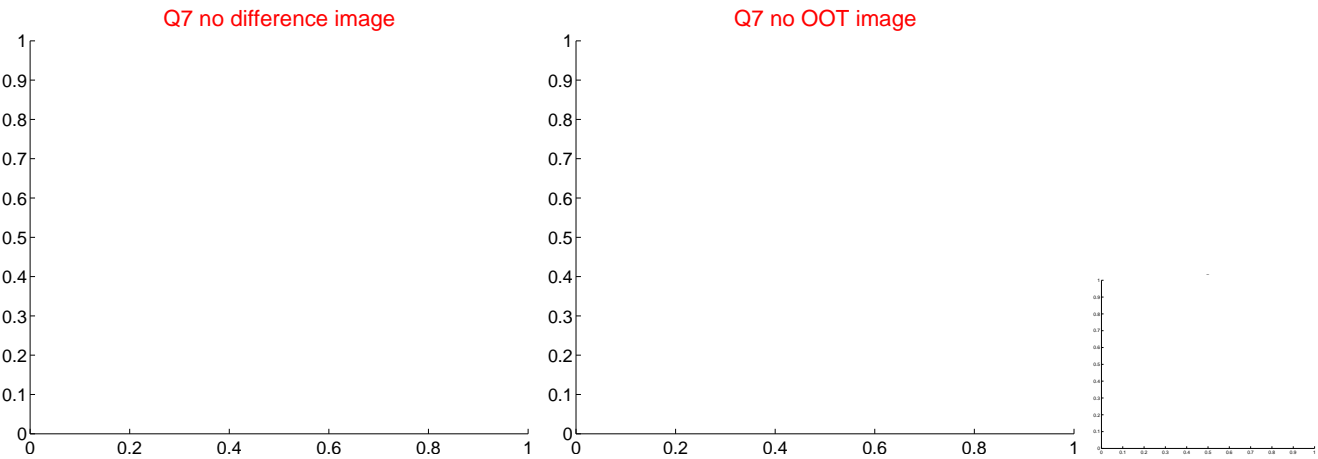
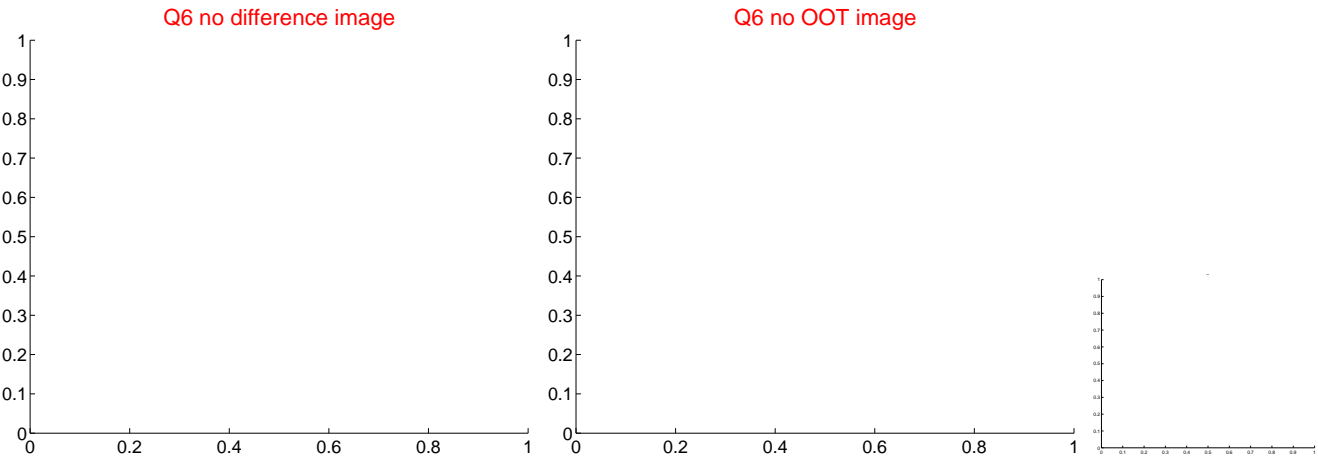
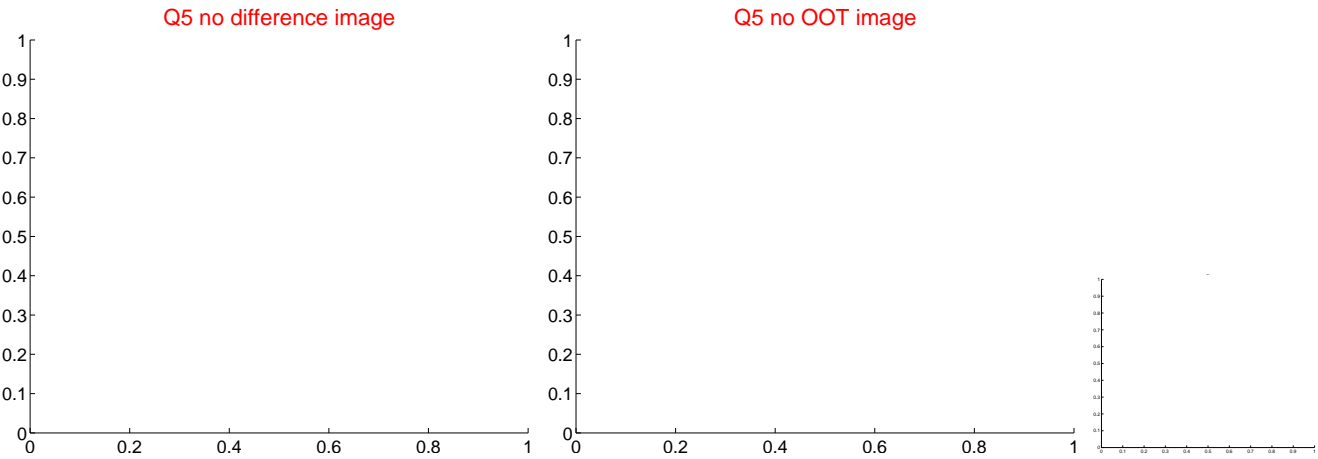


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- 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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



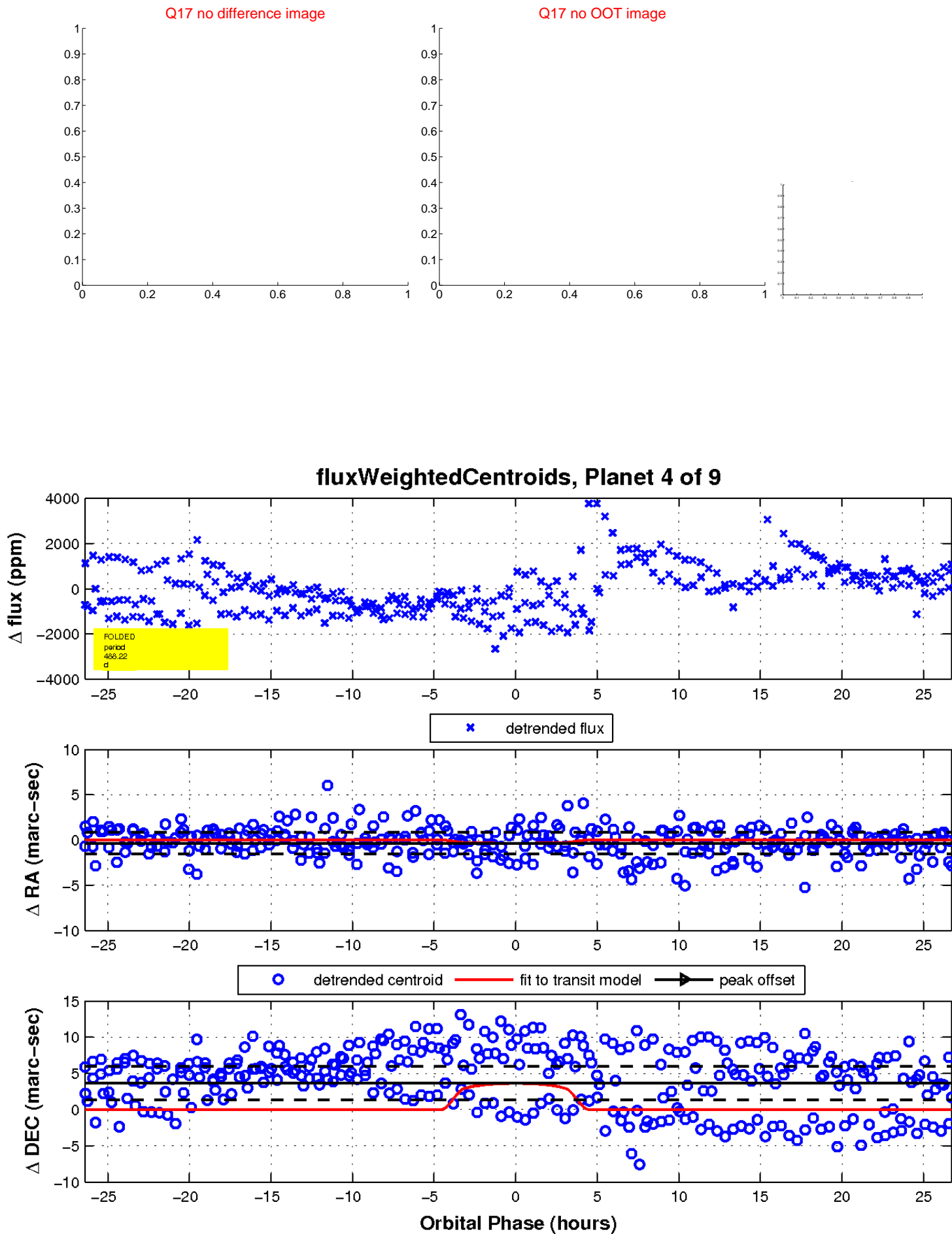
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

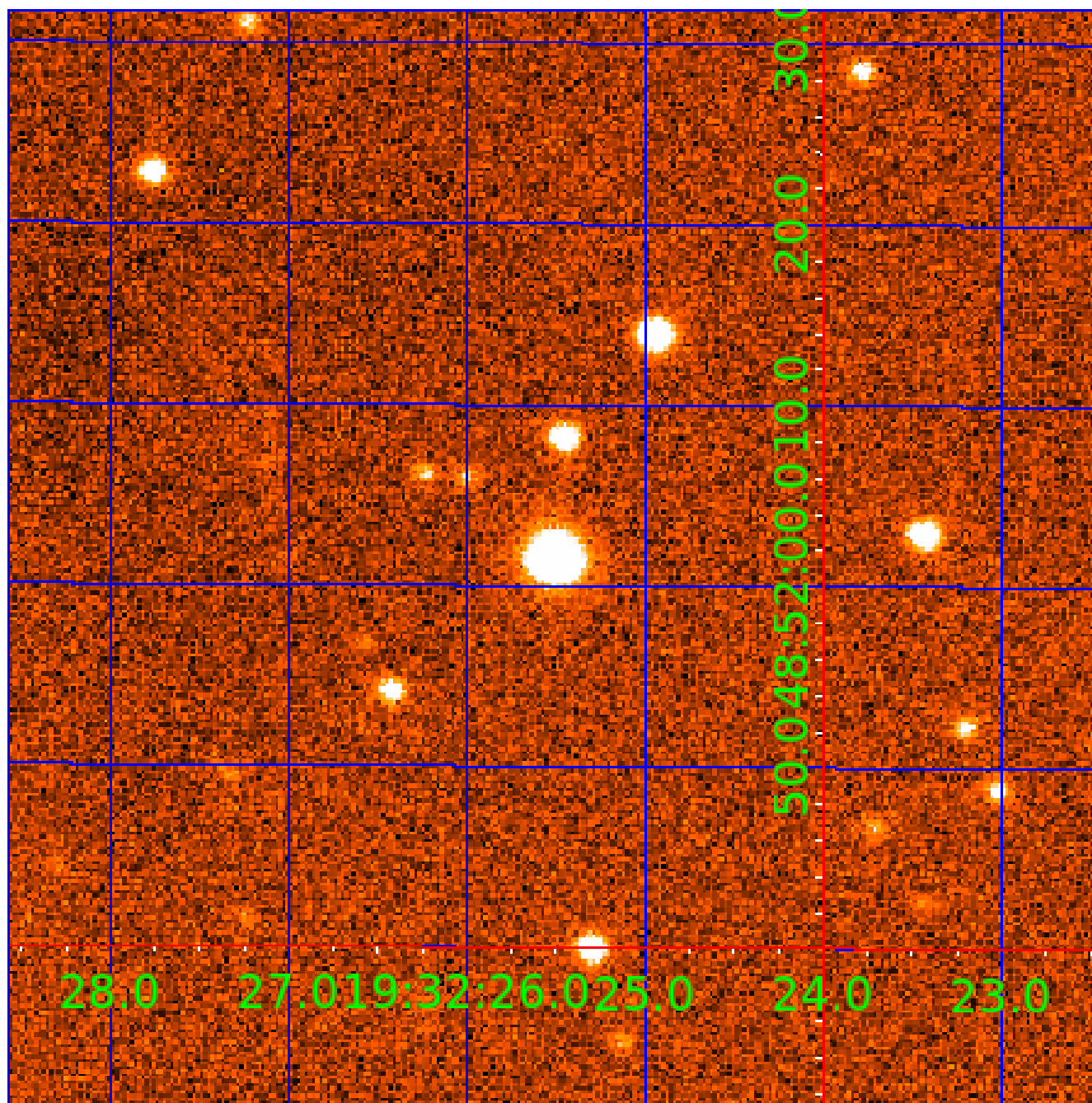


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

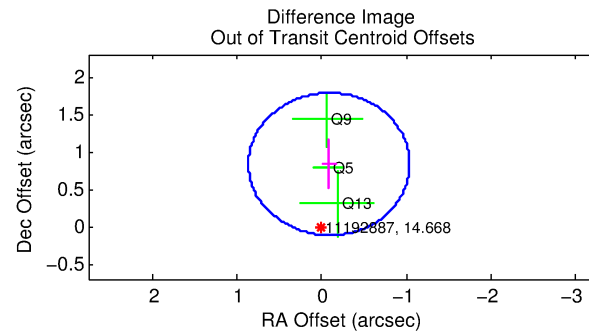
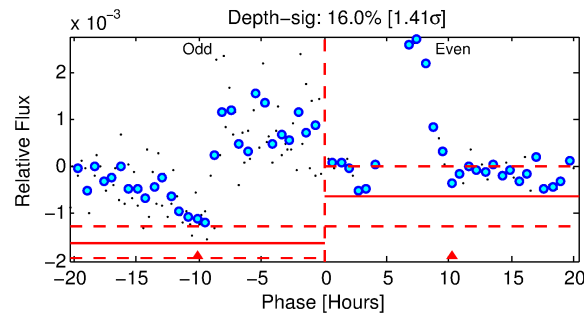
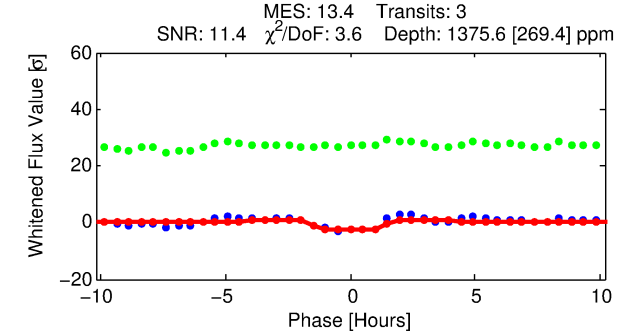
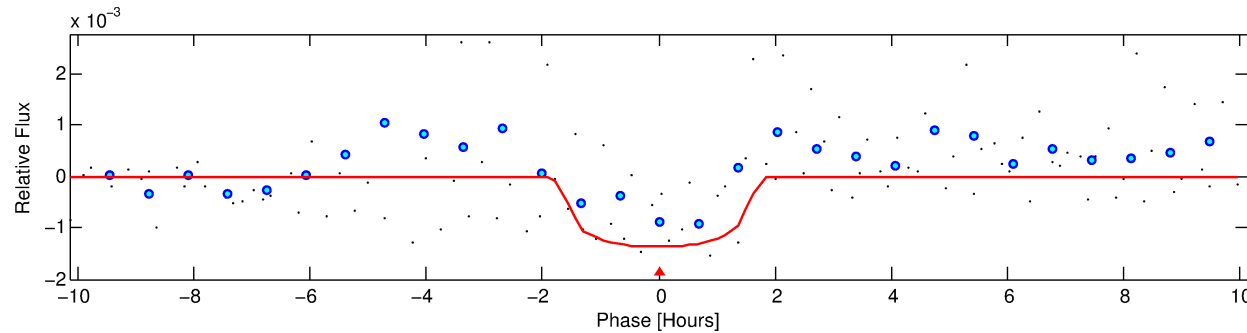
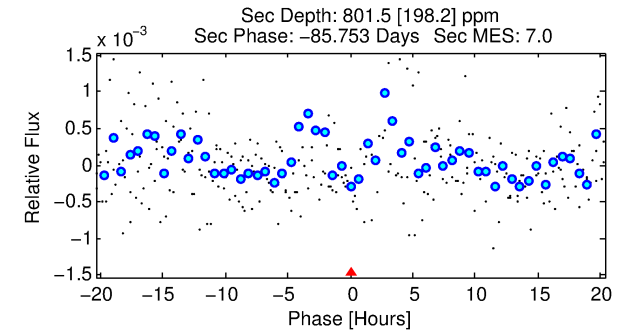
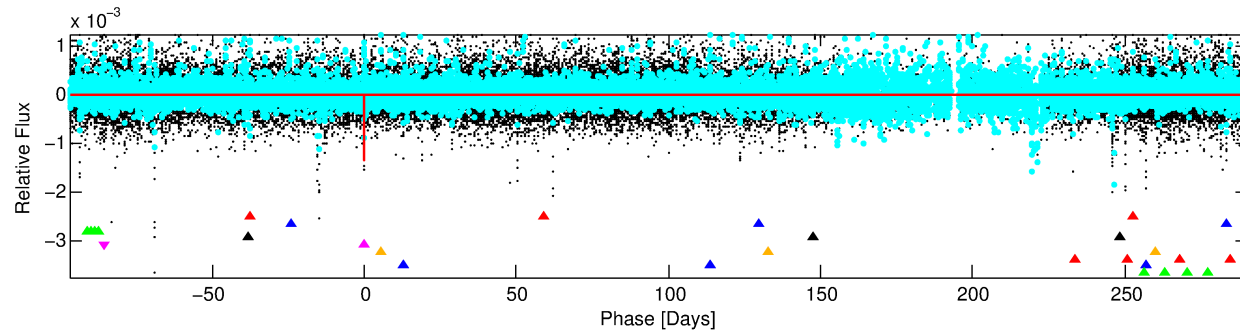
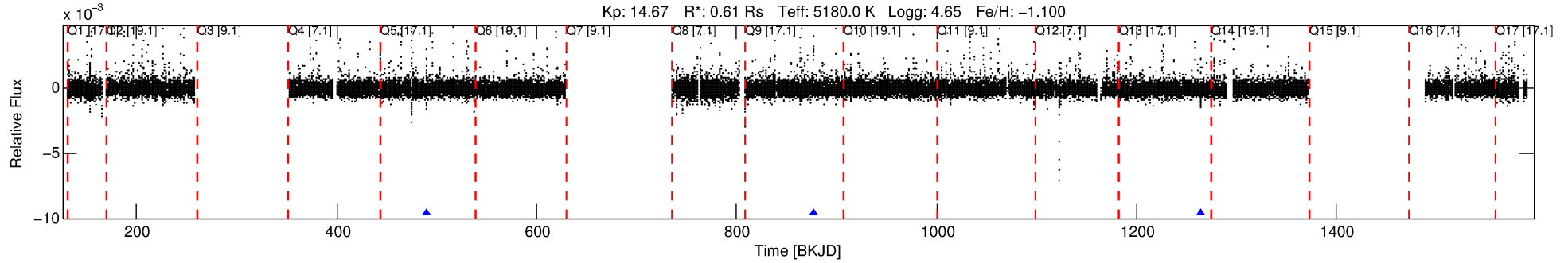
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-05

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 5 of 9 Period: 387.273 d



DV Fit Results:

Period = 387.27295 [0.00790] d
Epoch = 489.9618 [0.0111] BKJD
Rp/R* = 0.0356 [0.0609]
a/R* = 719.70 [5382.18]
b = 0.63 [7.27]
Seff = 0.31 [0.05]
Teq = 191 [8] K
Rp = 2.38 [4.08] Re
a = 0.8818 [0.0583] AU
Ag = 60452.54 [207529.45] [0.29 σ]
Teffp = 4619 [3966] K [1.12 σ]

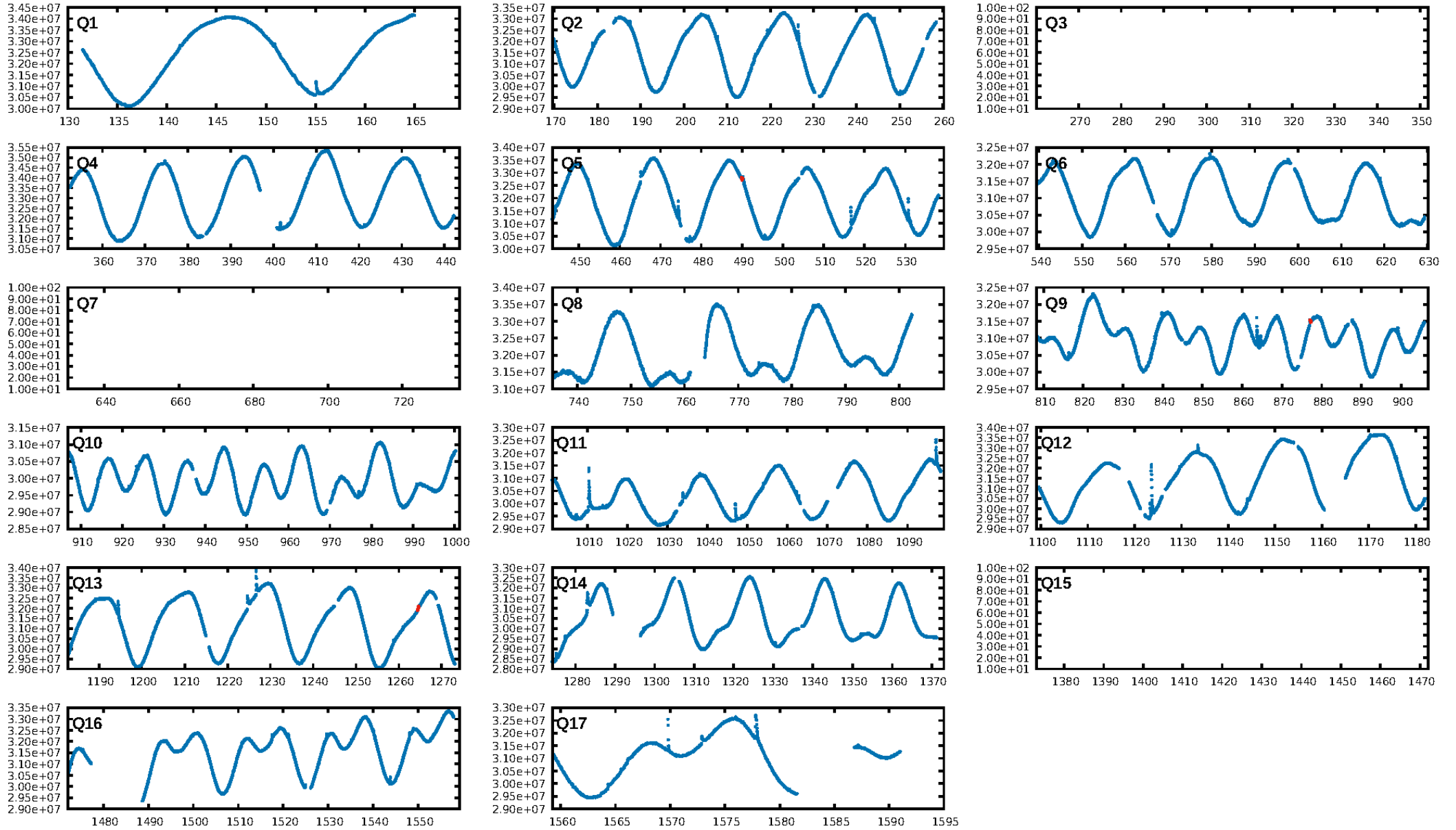
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [33.59 σ]
LongPeriod-sig: 100.0% [4.00 σ]
ModelChiSquare2-sig: 0.0%
ModelChiSquareGof-sig: 7.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 1.28
Centroid-sig: 42.3%
Centroid-so: 0.578 arcsec [0.70 σ]
OotOffset-rm: 0.839 arcsec [2.65 σ]
OotOffset-st: 0/0/0/3 [3]
KicOffset-rm: 1.083 arcsec [3.98 σ]
KicOffset-st: 0/0/0/3 [3]
DiffImageQuality-fgm: 1.00 [3/3]
DiffImageOverlap-fno: 1.00 [3/3]

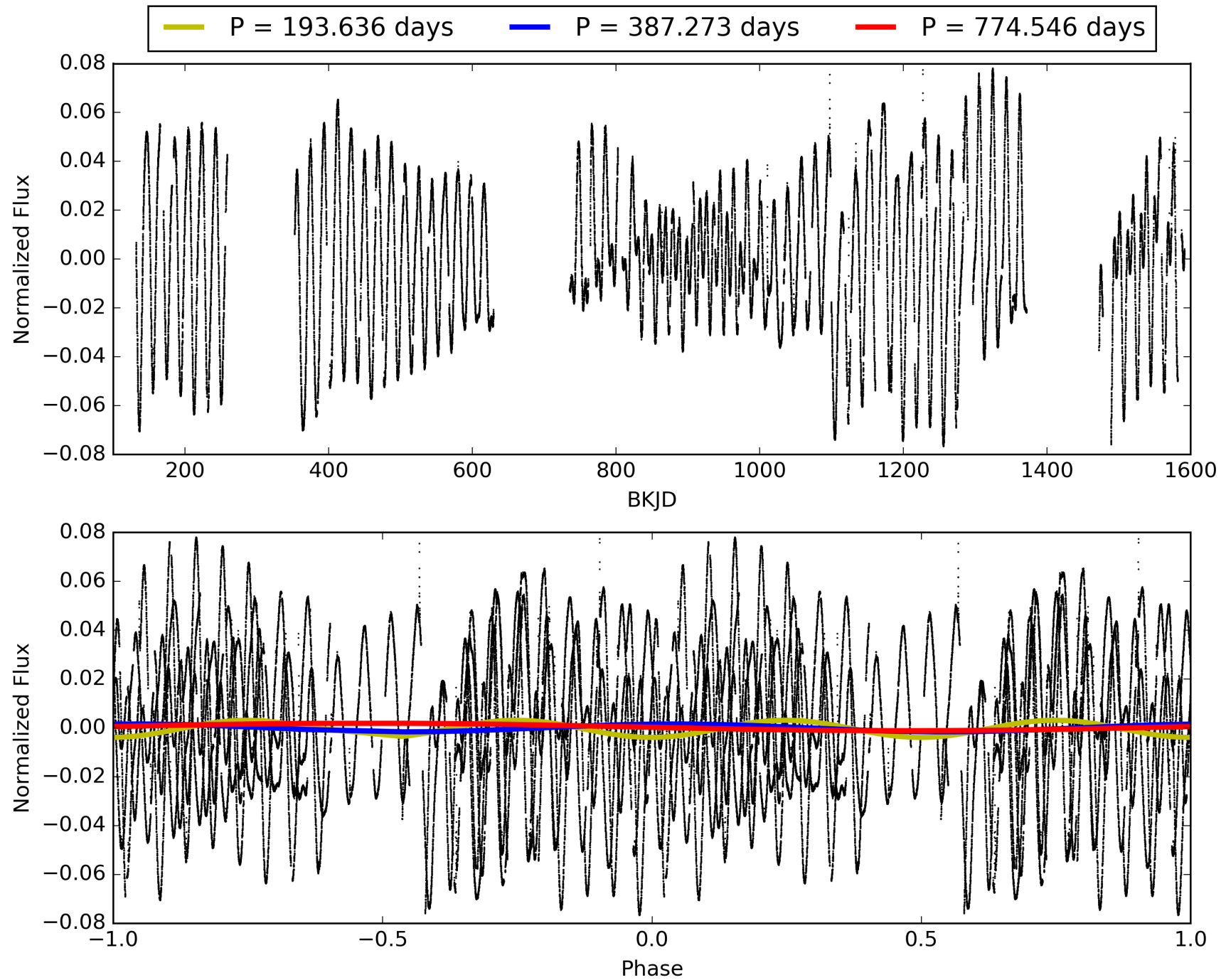
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:42:48 Z

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

TCE 011192887-05, PDC Light Curves

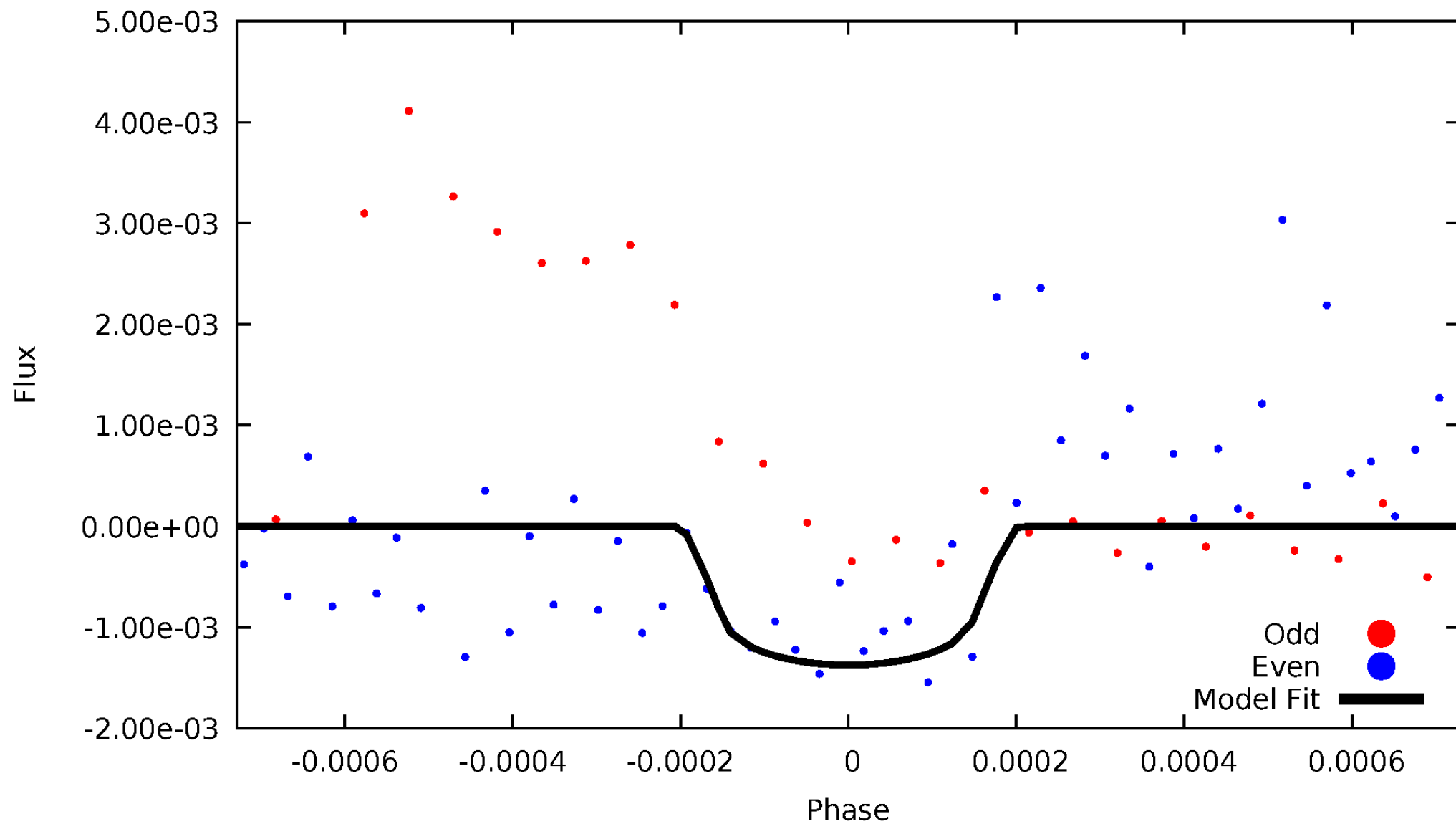


TCE 011192887-05



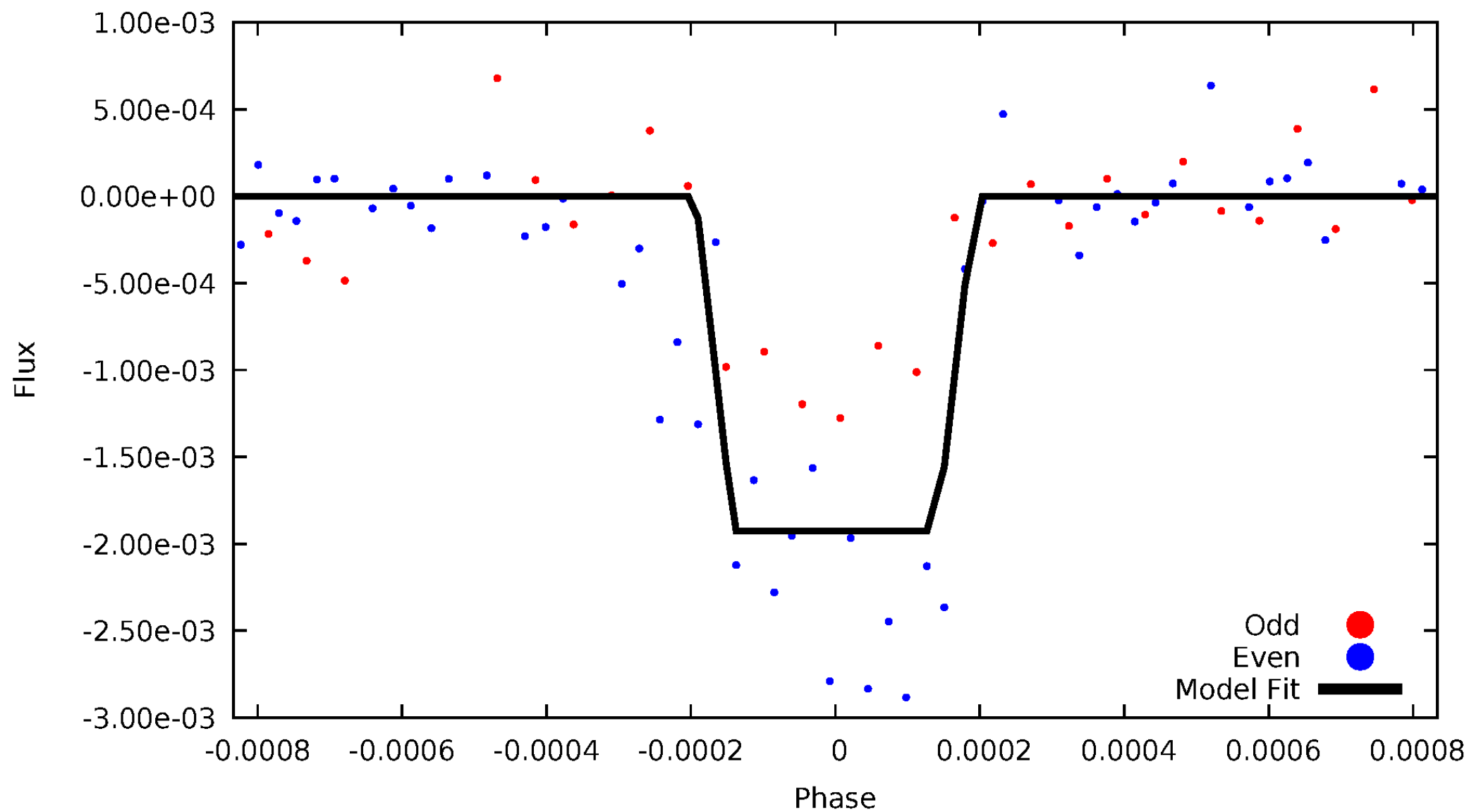
DV Odd/Even

TCE 011192887-05



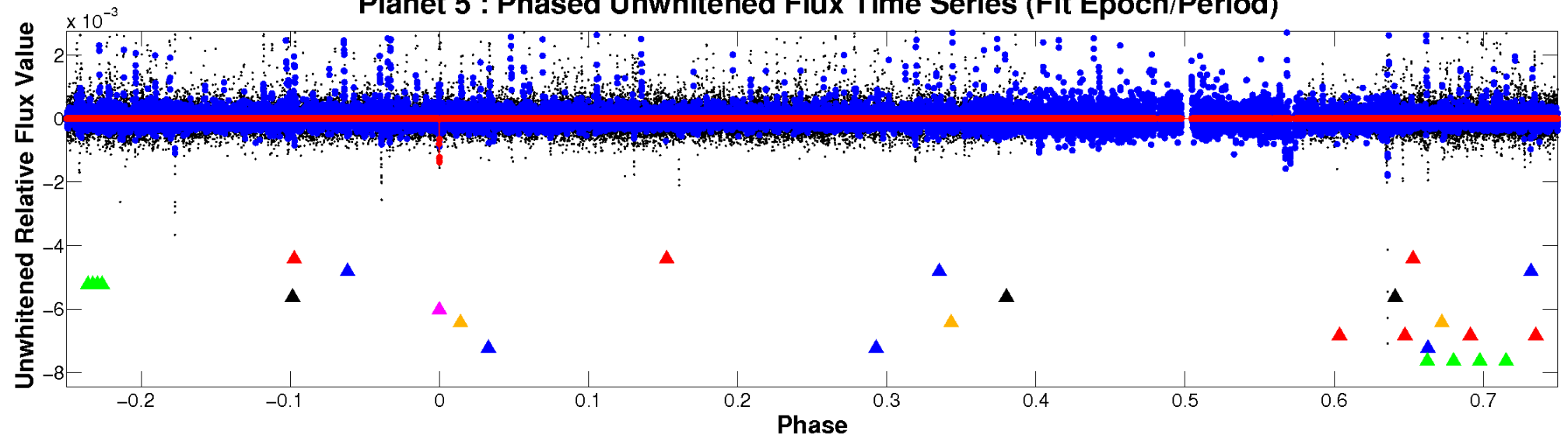
ALT Odd/Even

TCE 011192887-05

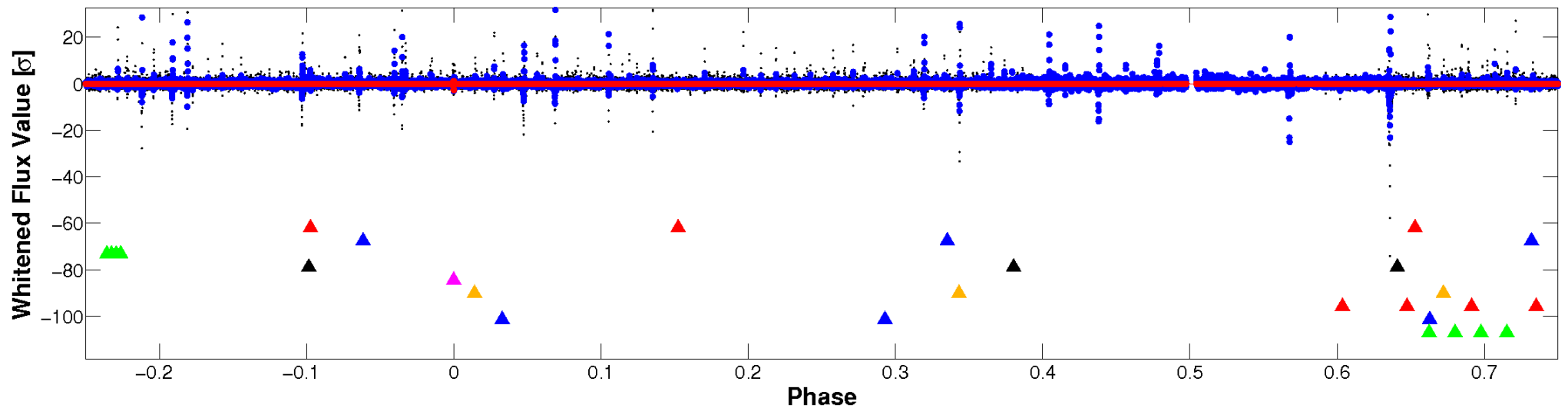


Non-Whitened Vs. Whitened Light Curve

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

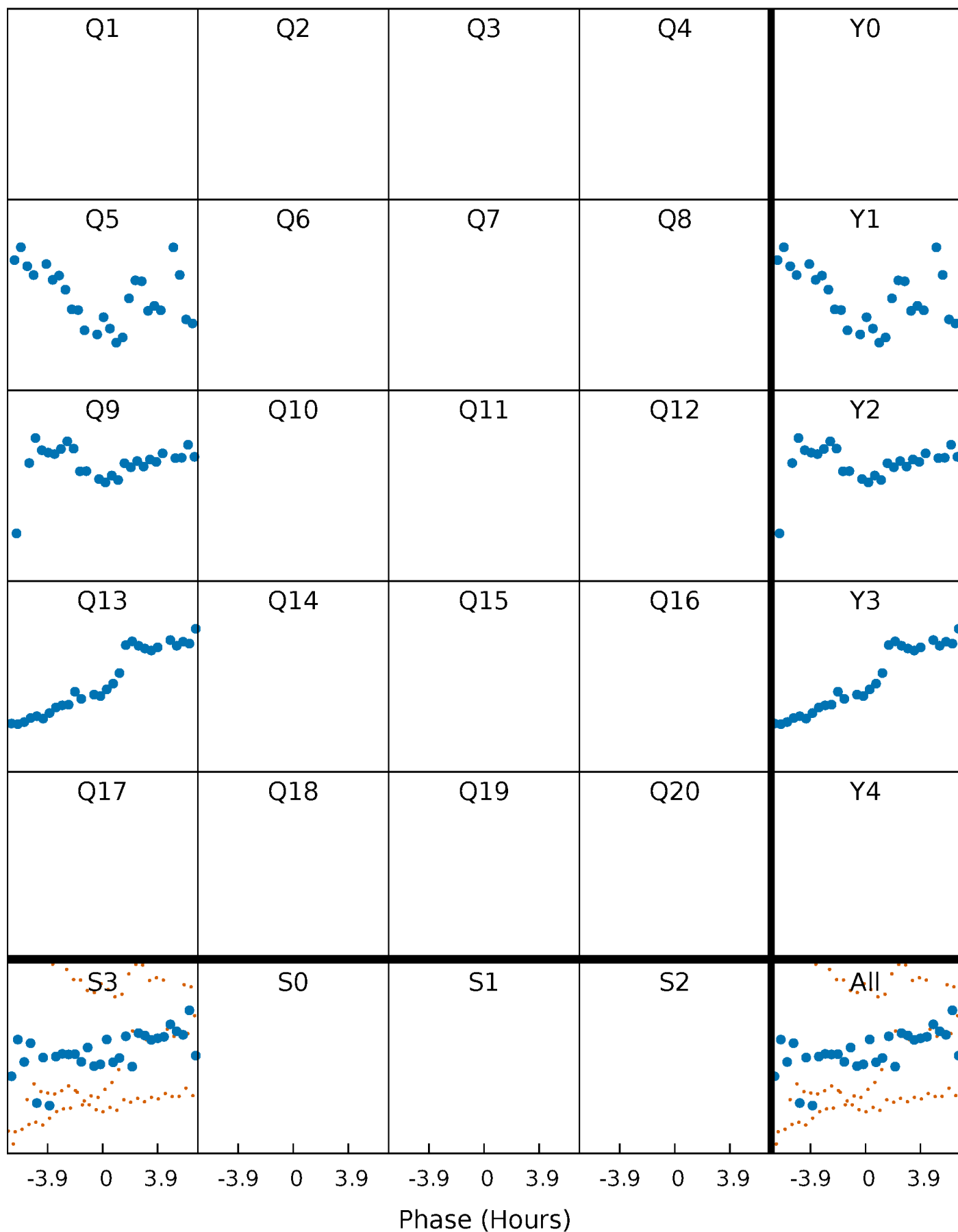


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



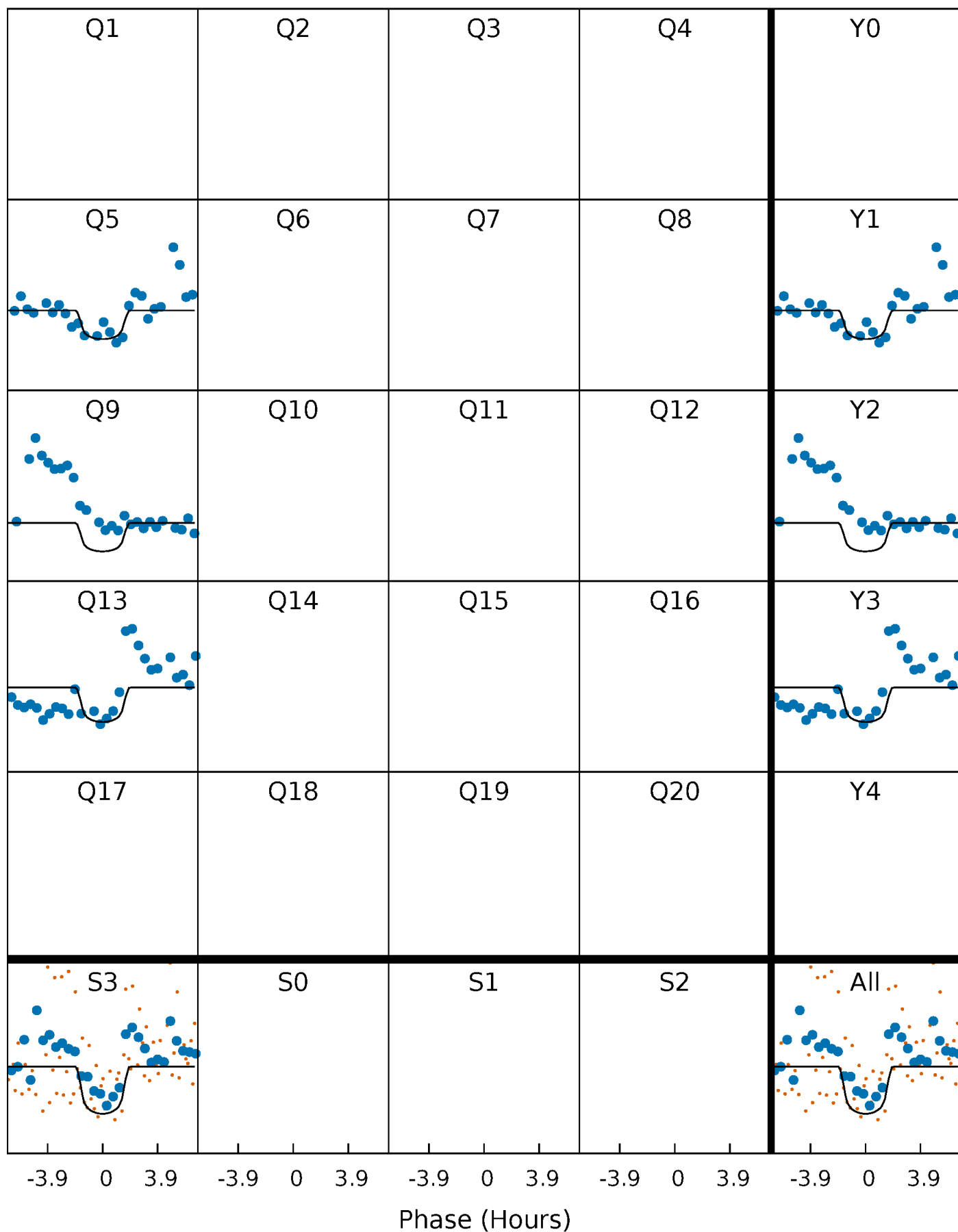
PDC Quarter-Phased Transit Curves

TCE 011192887-05 $P=387.272948$ Days $T_0=489.961774$ (BKJD)



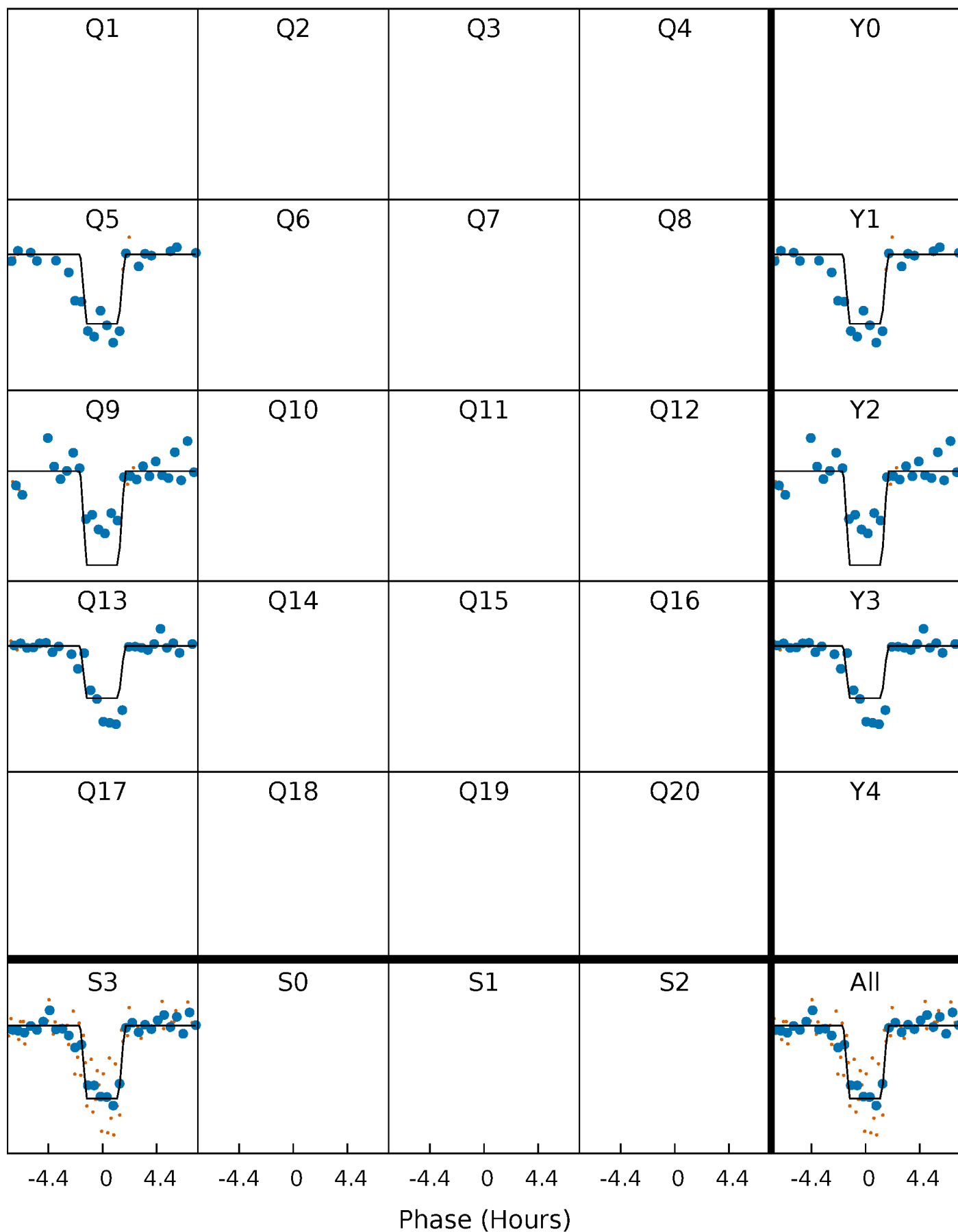
DV Quarter-Phased Transit Curves

TCE 011192887-05 $P=387.272948$ Days $T_0=489.961774$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

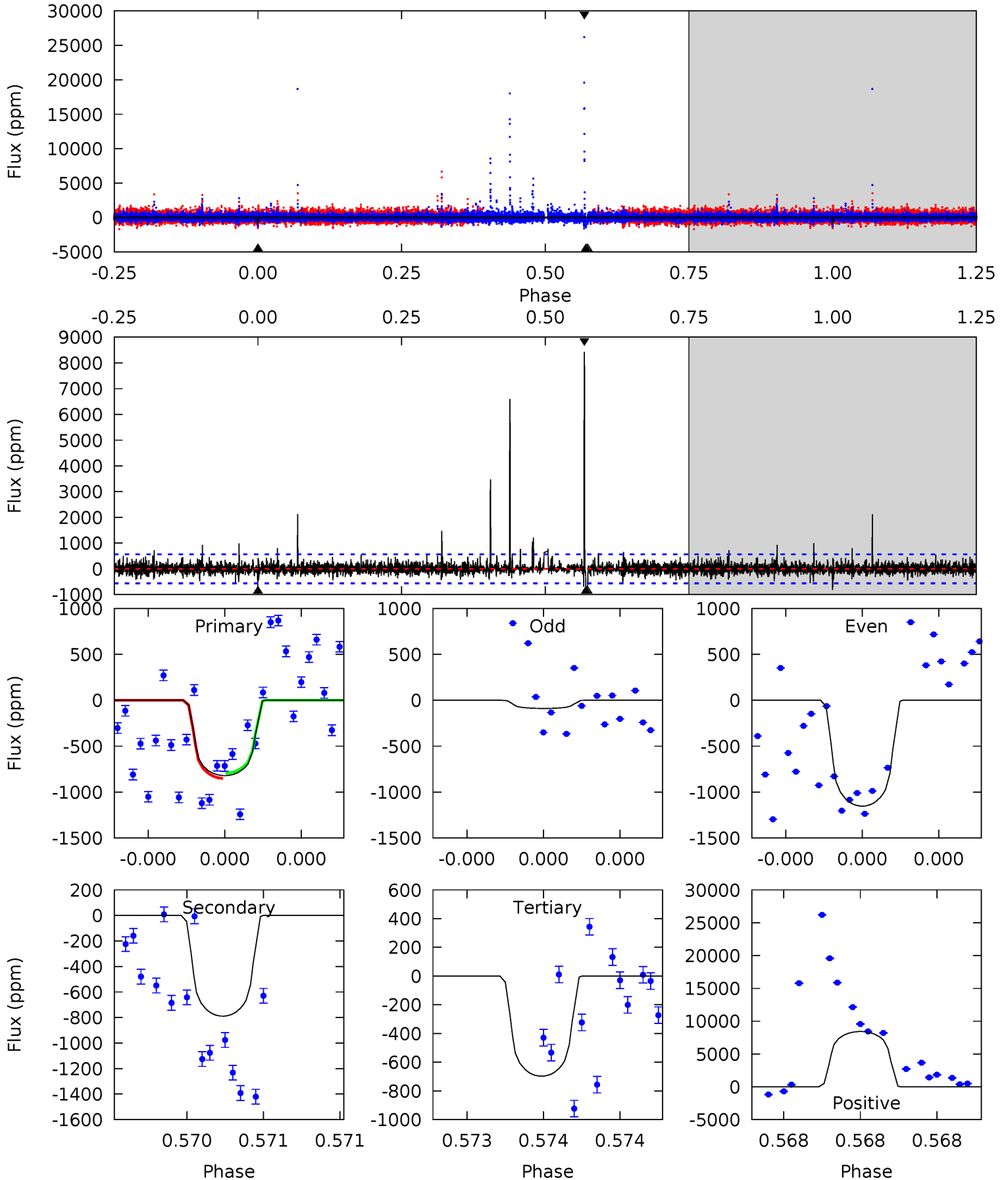
TCE 011192887-05 $P=387.263640$ Days $T_0=489.969973$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-05, P = 387.272948 Days, E = 102.688826 Days

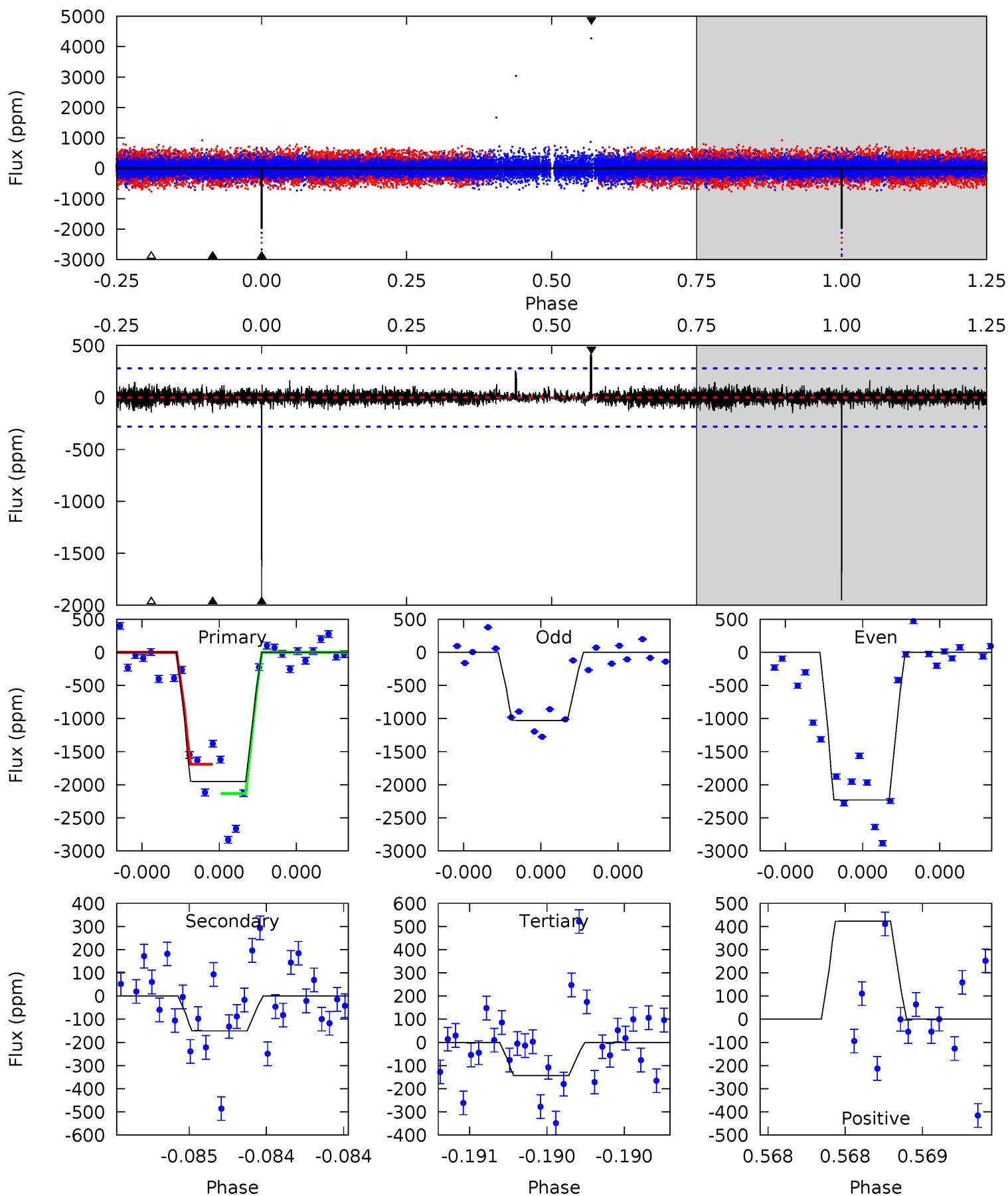
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.18	7.86	6.95	83.9	5.61	3.53	2.25	1.23	-75.7	0.91	-76.0	3.41	0.74	0.91	0.31



Alt Model-Shift Uniqueness Test

011192887-05, $P = 387.263640$ Days, $E = 102.706333$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
39.2	3.03	2.88	8.50	5.63	3.56	0.63	36.3	30.7	0.15	-5.47	13.1	0.88	0.18	0



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-05 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-789 ± 100	$3.87^{+3.44}_{-2.52}$	265^{+10}_{-9}	3929^{+2050}_{-740}	$23819^{+160211}_{-17237}$
Alt.	-151 ± 50	$4.09^{+3.65}_{-2.91}$	265^{+11}_{-10}	2949^{+1545}_{-473}	3602^{+41888}_{-2649}

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

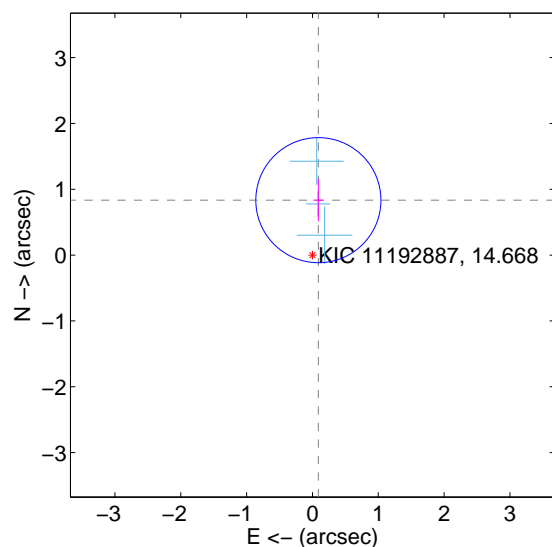
Supplemental centroid analysis for 011192887-05. Kepler magnitude: 14.67. Transit SNR 11.39

There are 3 quarters with good PRF difference image offsets

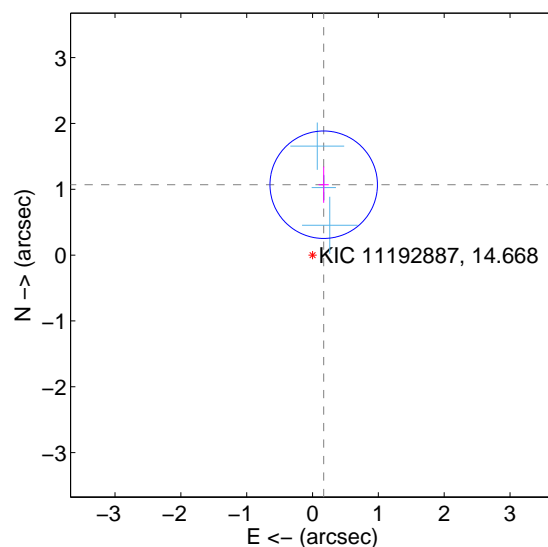
The direct PRF centroid is offset from the target star catalog position by about 0.17 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.839 ± 0.317	2.65	-0.090 ± 0.076	0.834 ± 0.322
PRF-fit source offset from KIC position	1.083 ± 0.272	3.98	-0.170 ± 0.077	1.069 ± 0.275
photometric centroid source offset	0.58 ± 0.83	0.70	0.55 ± 0.79	-0.18 ± 1.12

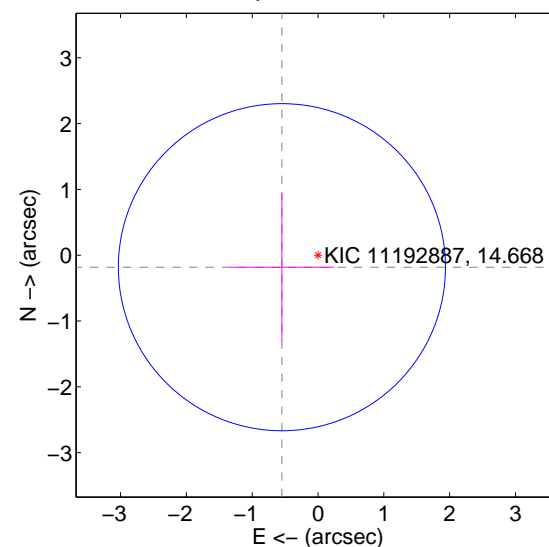
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



offset from photometric centroids

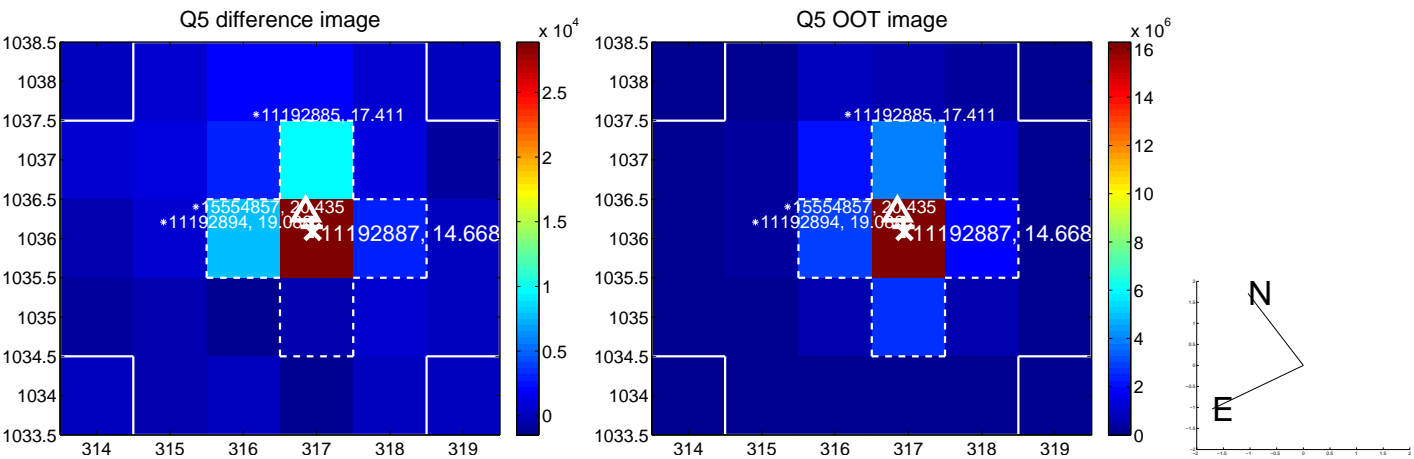


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

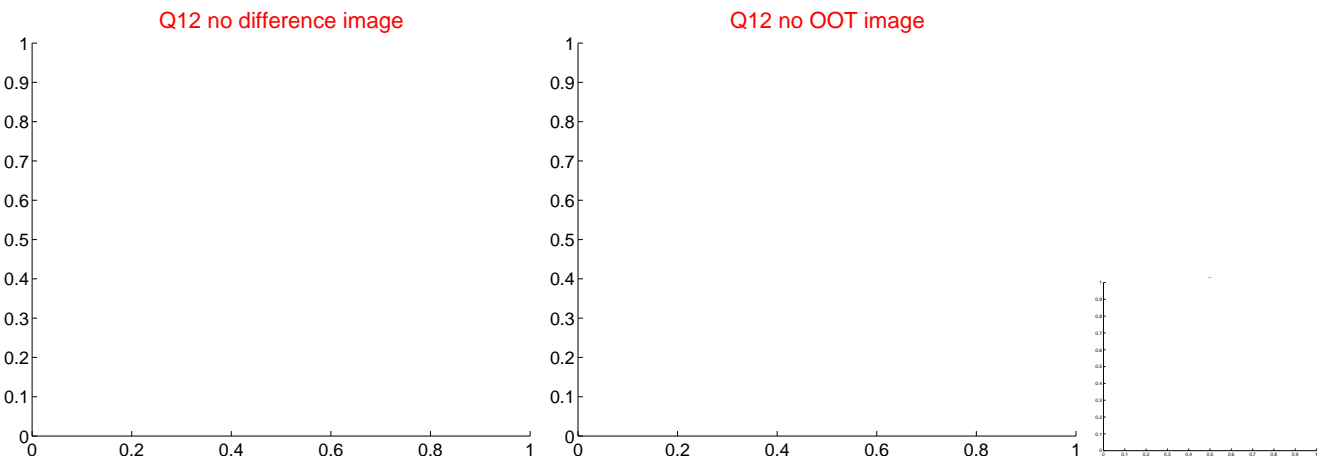
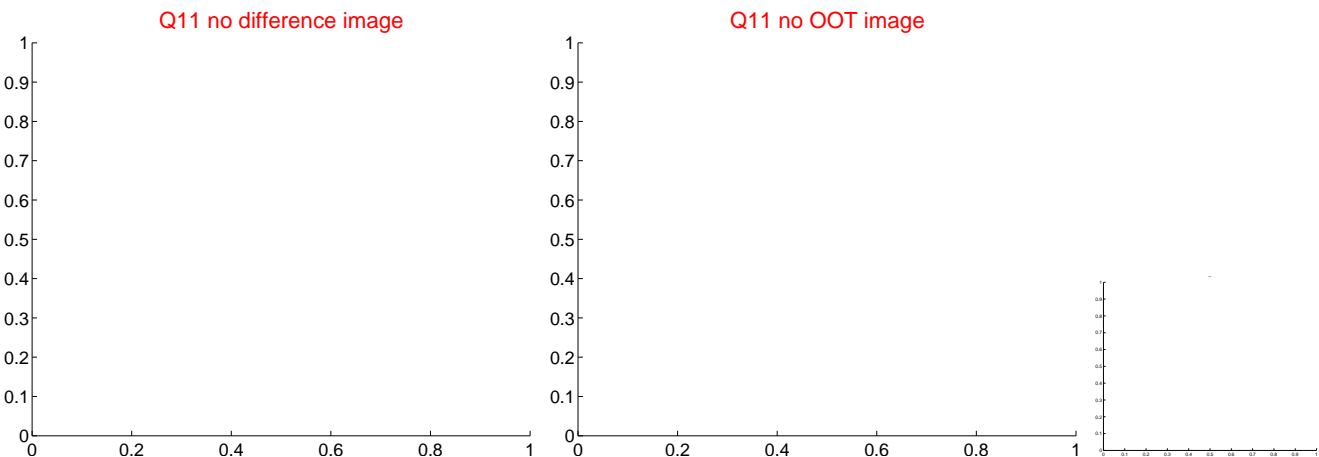
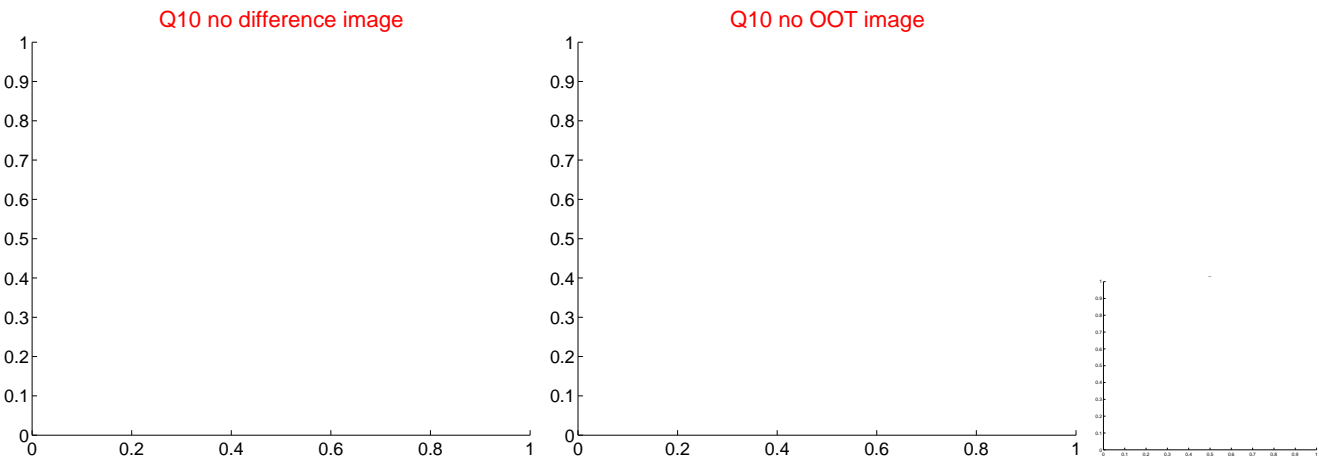
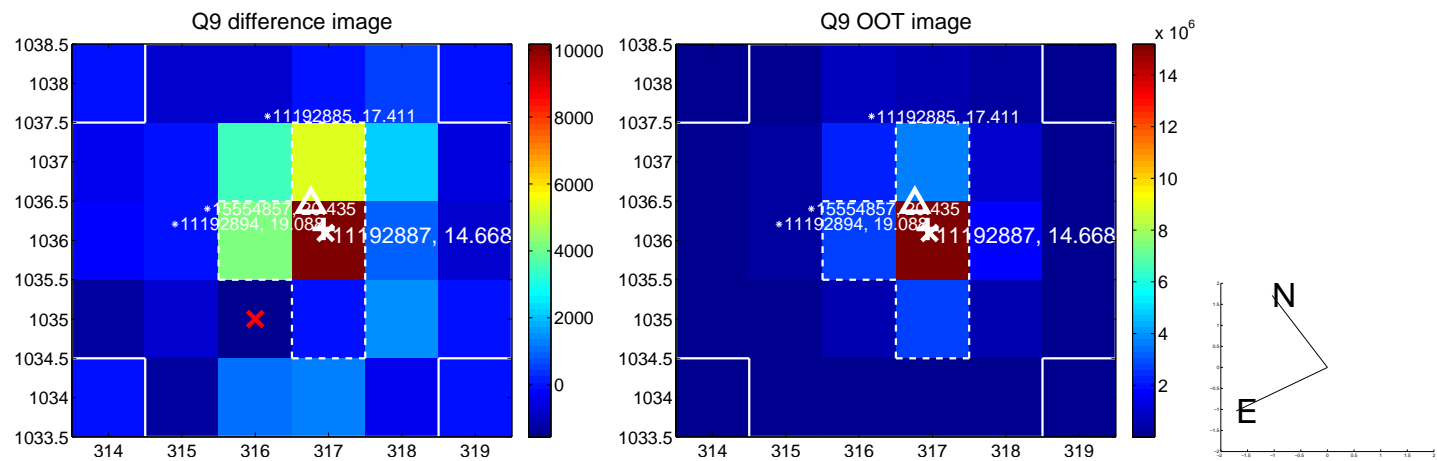
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



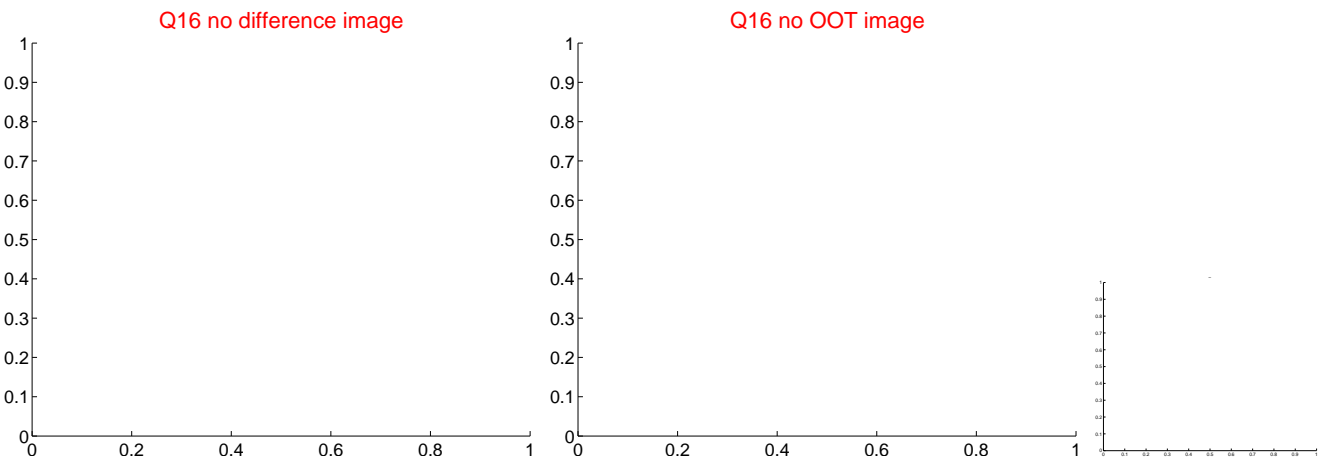
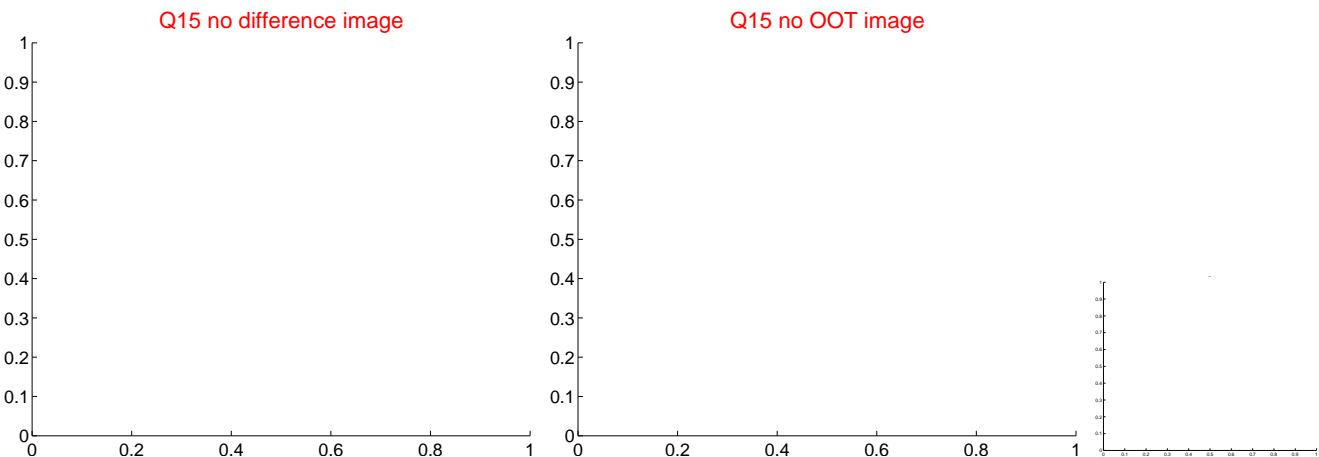
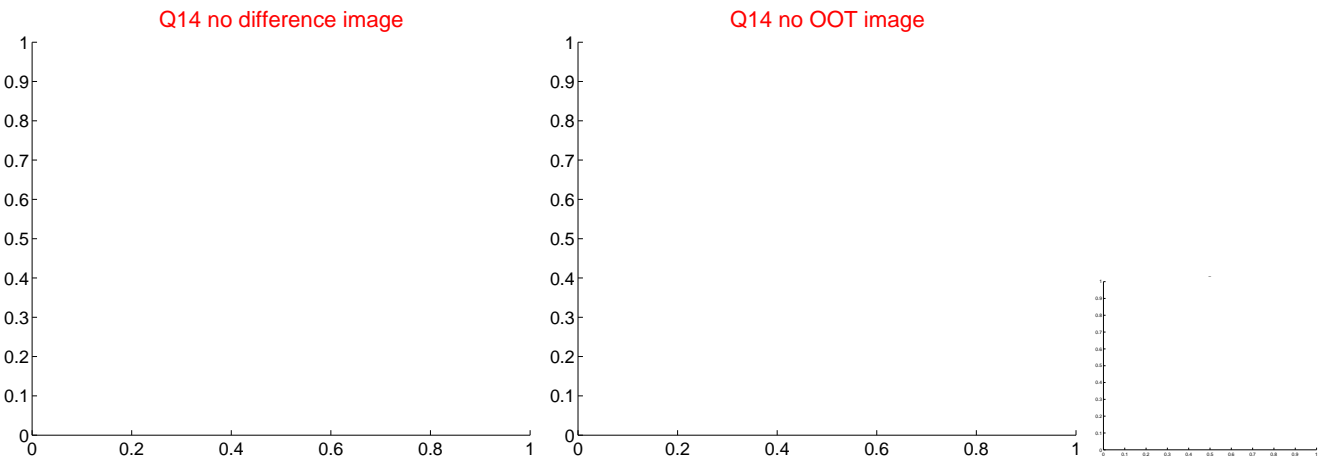
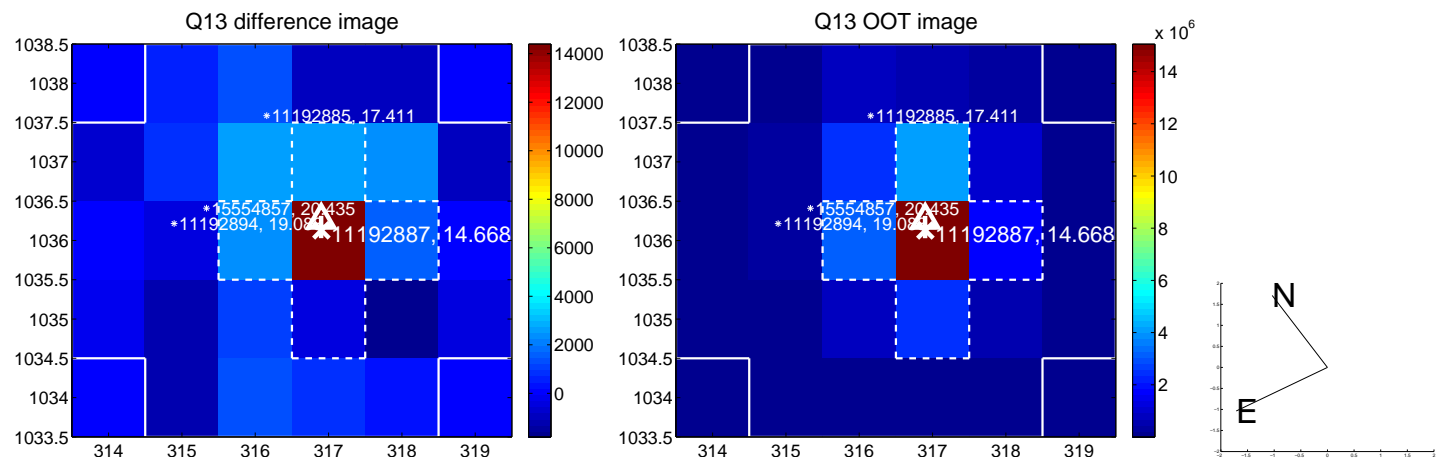
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



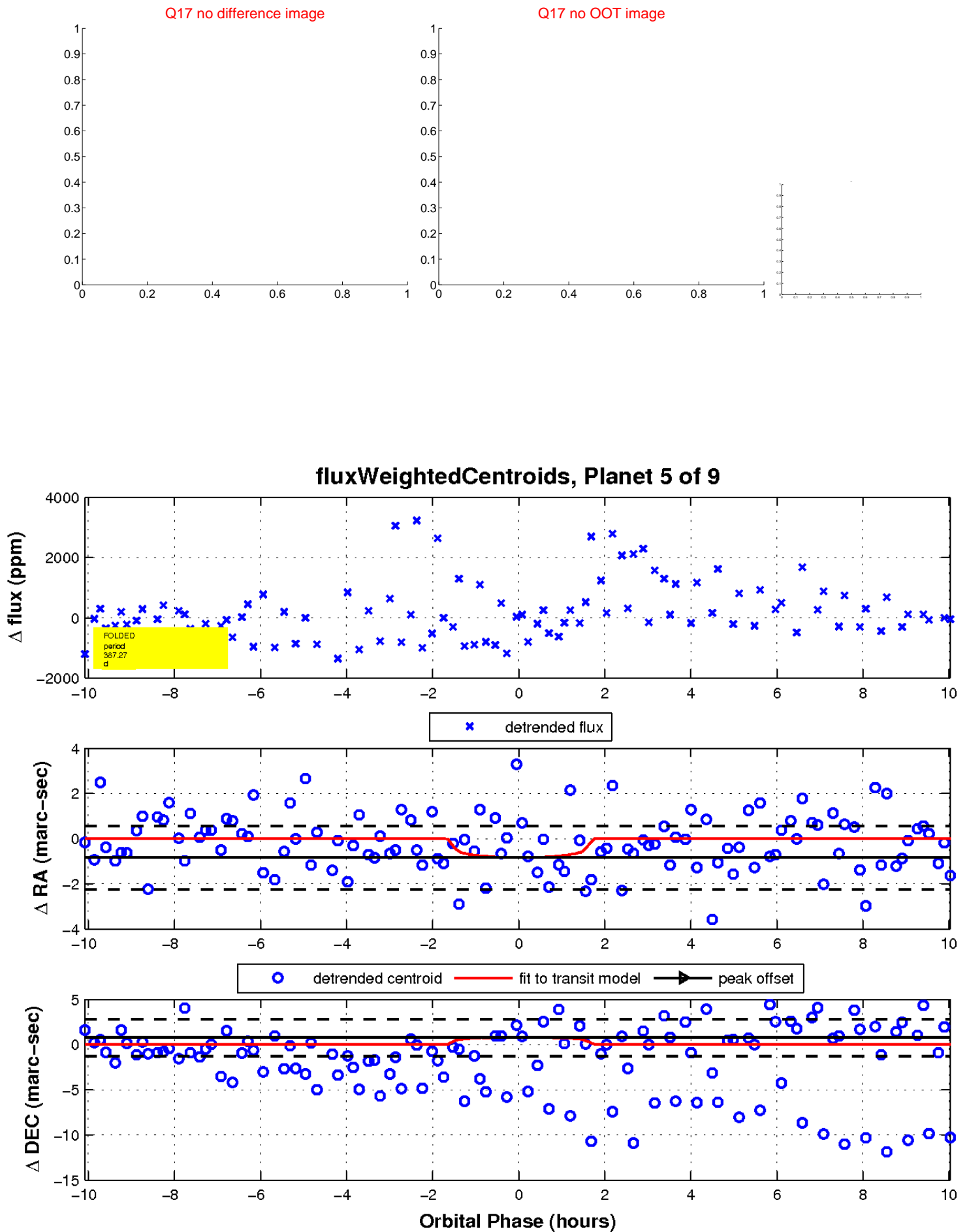
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

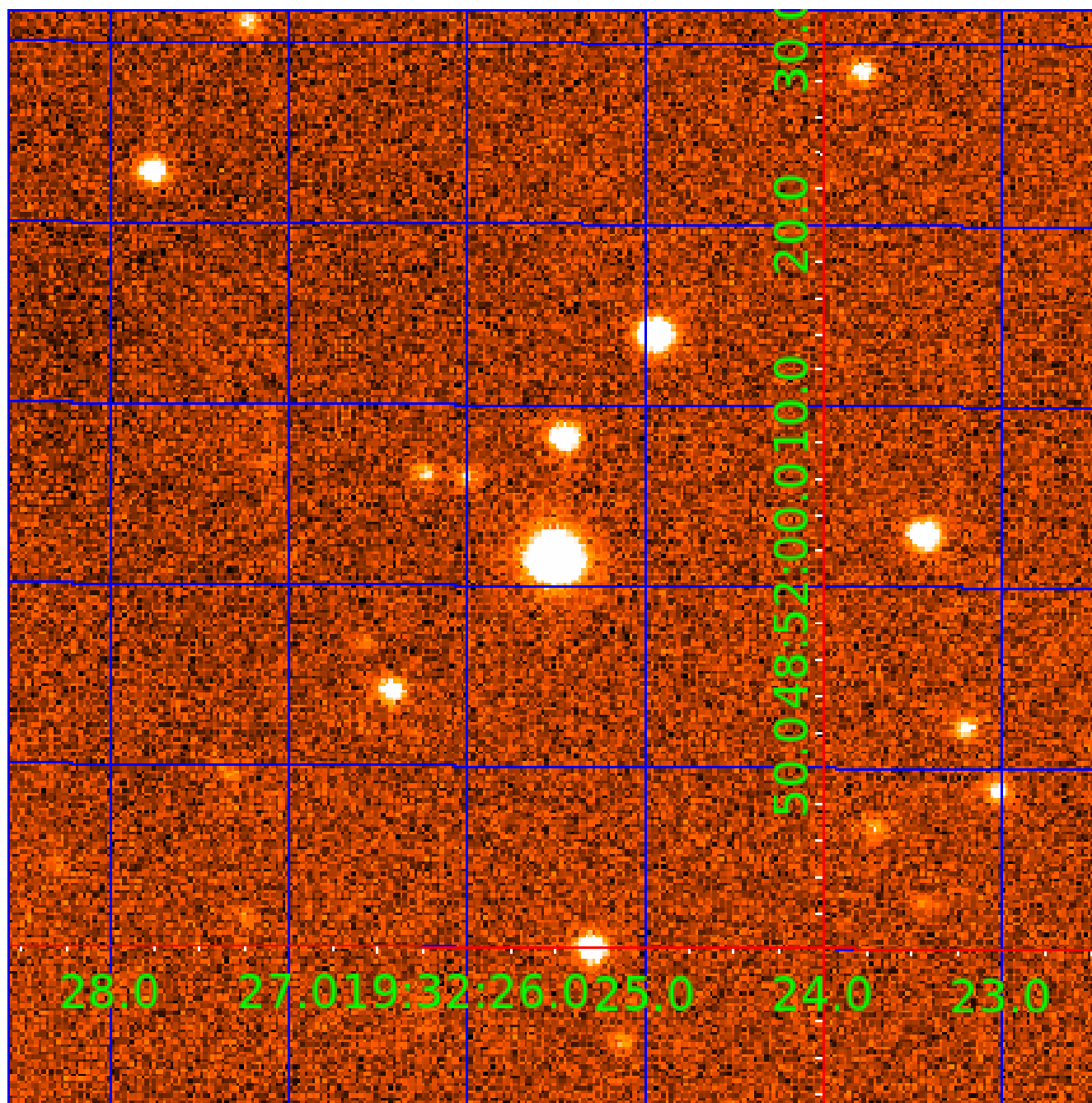


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

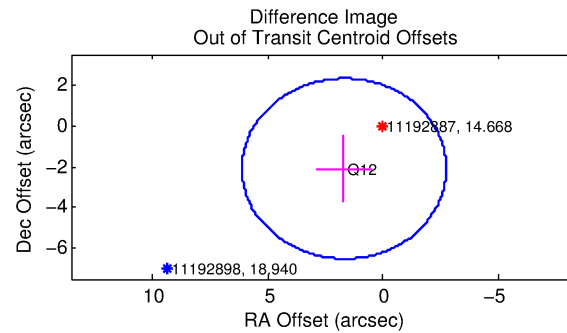
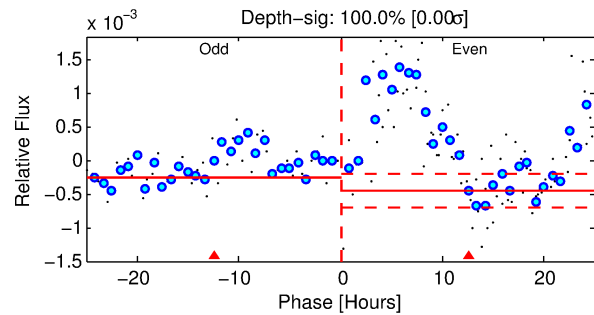
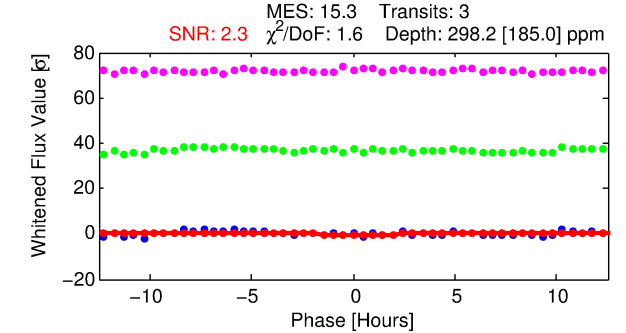
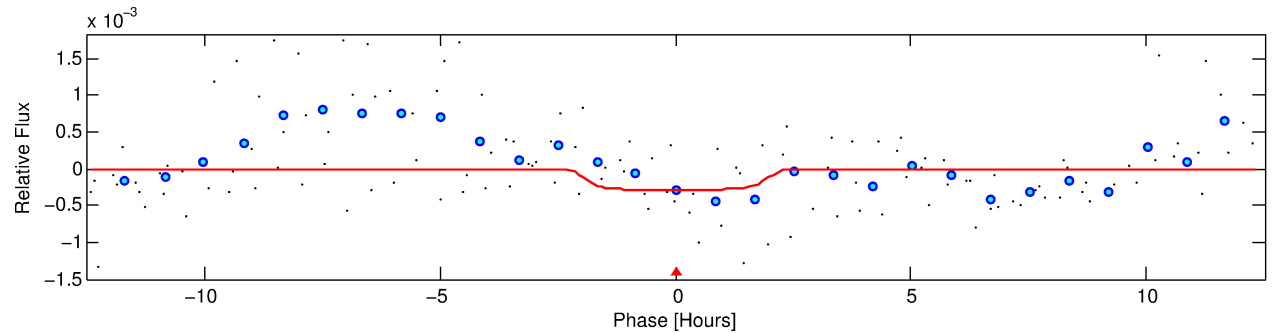
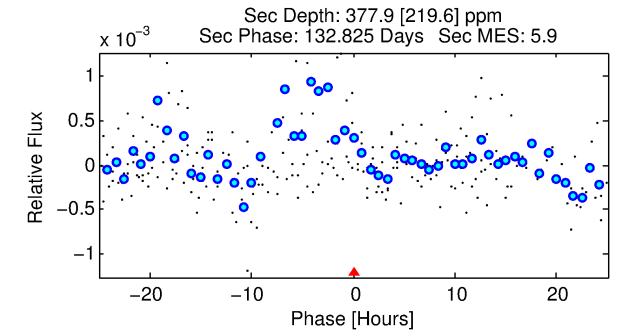
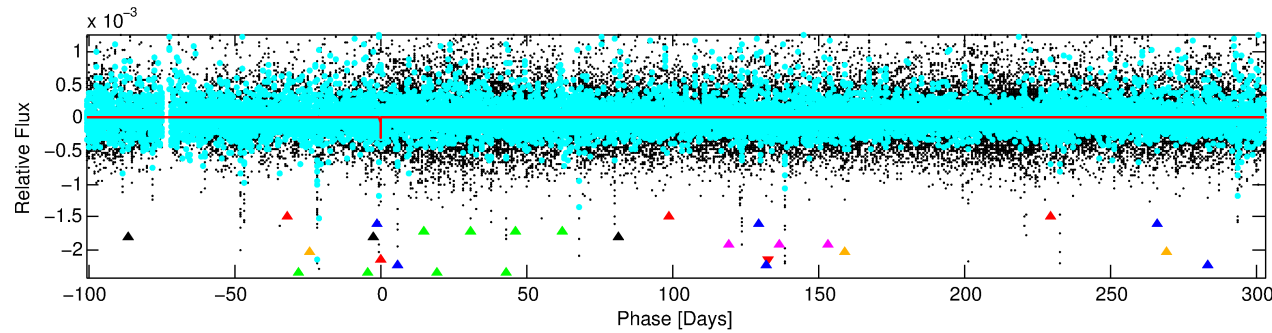
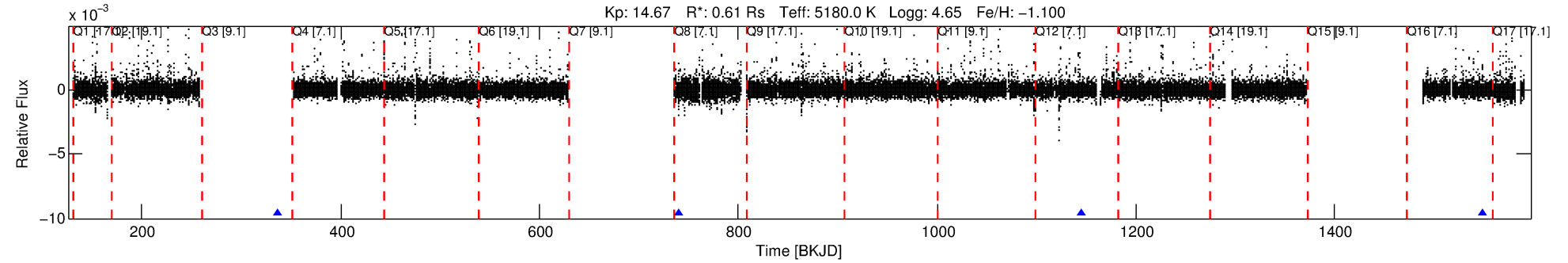
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-07

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 7 of 9 Period: 404.262 d



DV Fit Results:

Period = 404.26191 [0.01733] d
Epoch = 336.4555 [0.0414] BKJD
Rp/R* = 0.0169 [0.0760]
a/R* = 540.72 [10902.36]
b = 0.71 [14.37]
Seff = 0.29 [0.05]
Teq = 188 [8] K
Rp = 1.13 [5.08] Re
a = 0.9074 [0.0600] AU
Ag = 133593.09 [1201928.71] [0.11σ]
Teffp = 5552 [12488] K [0.43σ]

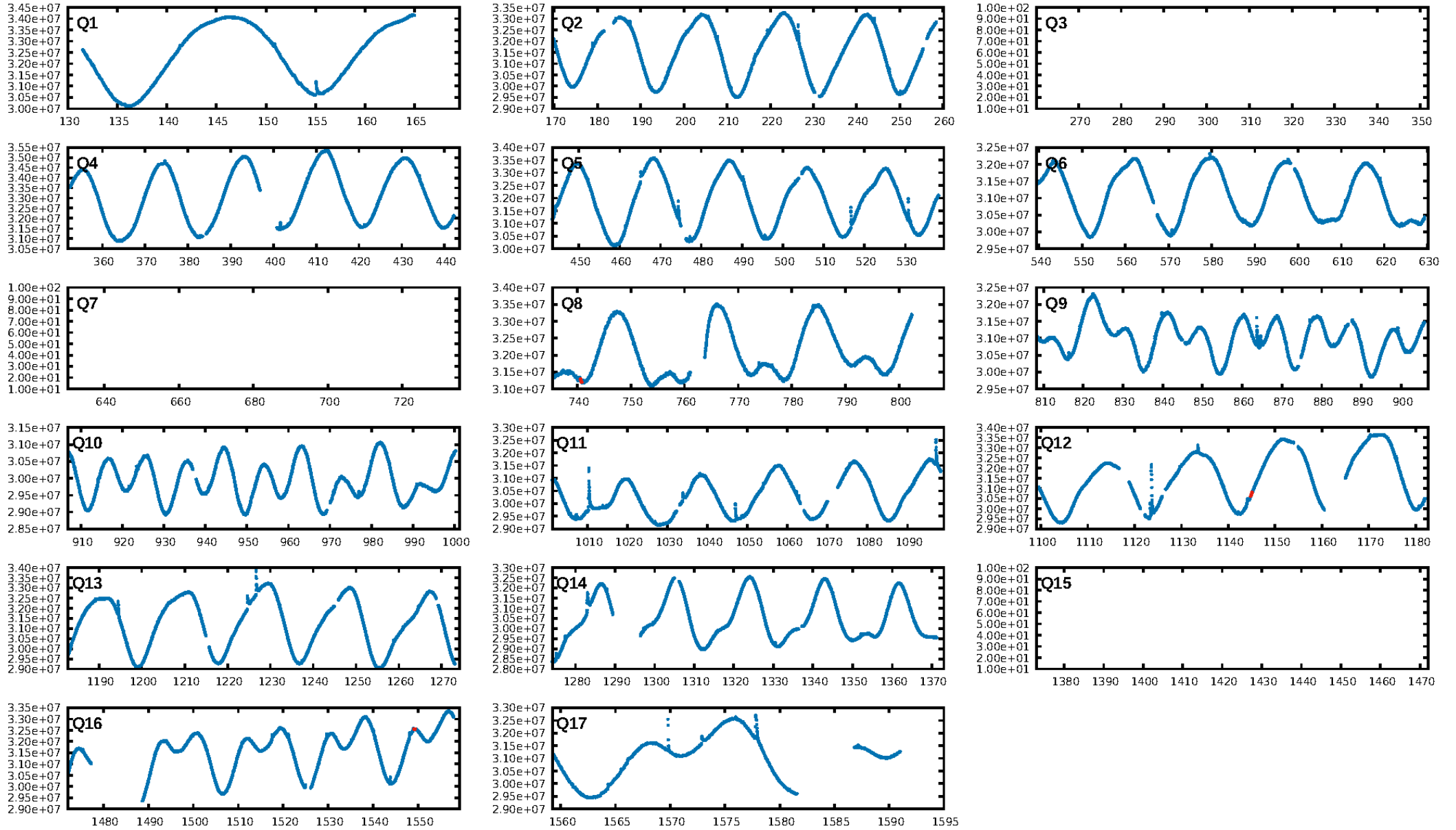
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [49.16σ]
LongPeriod-sig: 100.0% [204.76σ]
ModelChiSquare2-sig: 55.1%
ModelChiSquareGof-sig: 58.1%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.03985
Centroid-sig: 0.4%
Centroid-so: 10.563 arcsec [2.27σ]
OotOffset-rm: 2.694 arcsec [1.83σ]
OotOffset-st: 0/0/1/0 [1]
KicOffset-rm: 2.572 arcsec [1.73σ]
KicOffset-st: 0/0/1/0 [1]
DiffImageQuality-fgm: 0.00 [0/1]
DiffImageOverlap-fno: 1.00 [2/2]

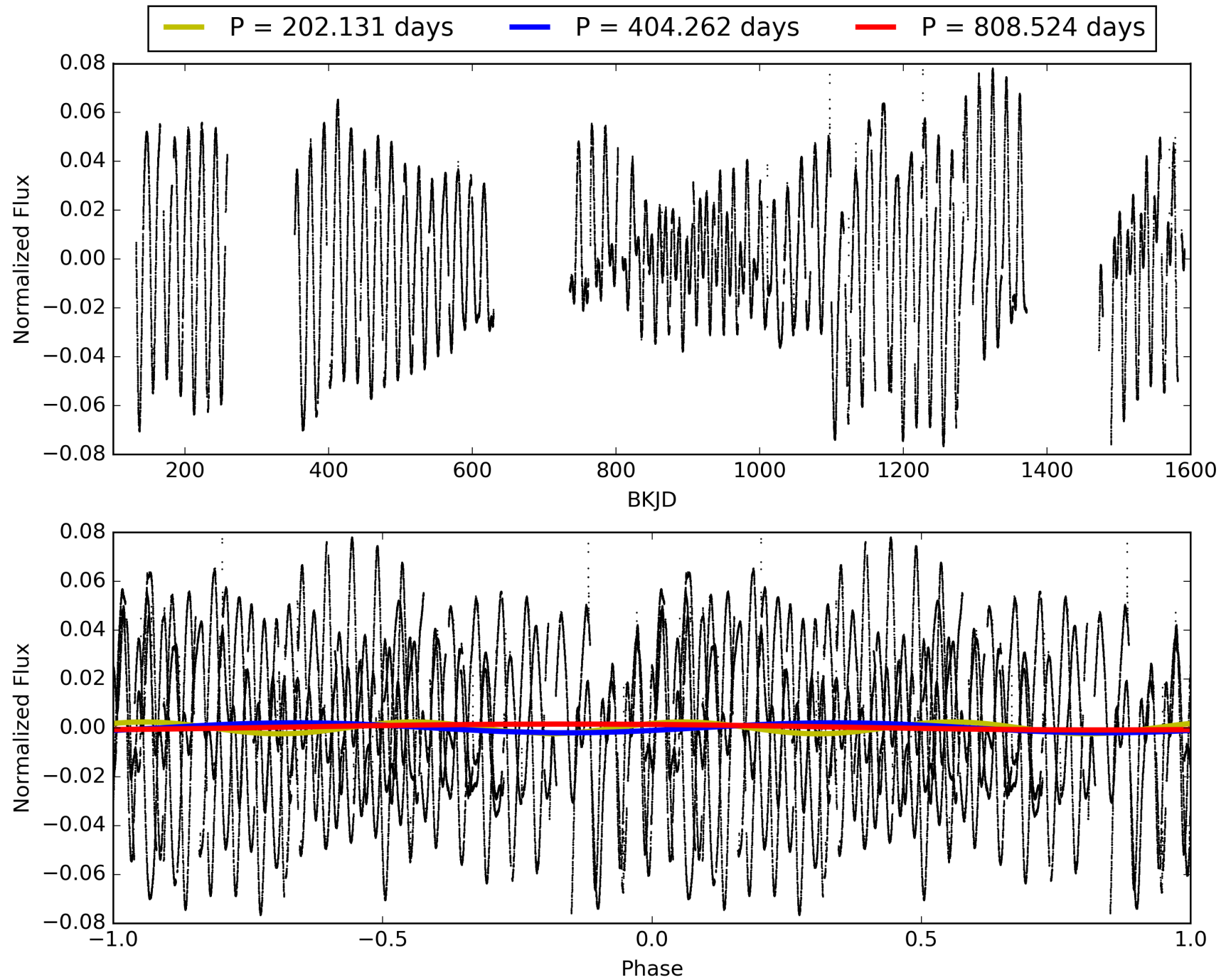
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:43:12 Z

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

TCE 011192887-07, PDC Light Curves

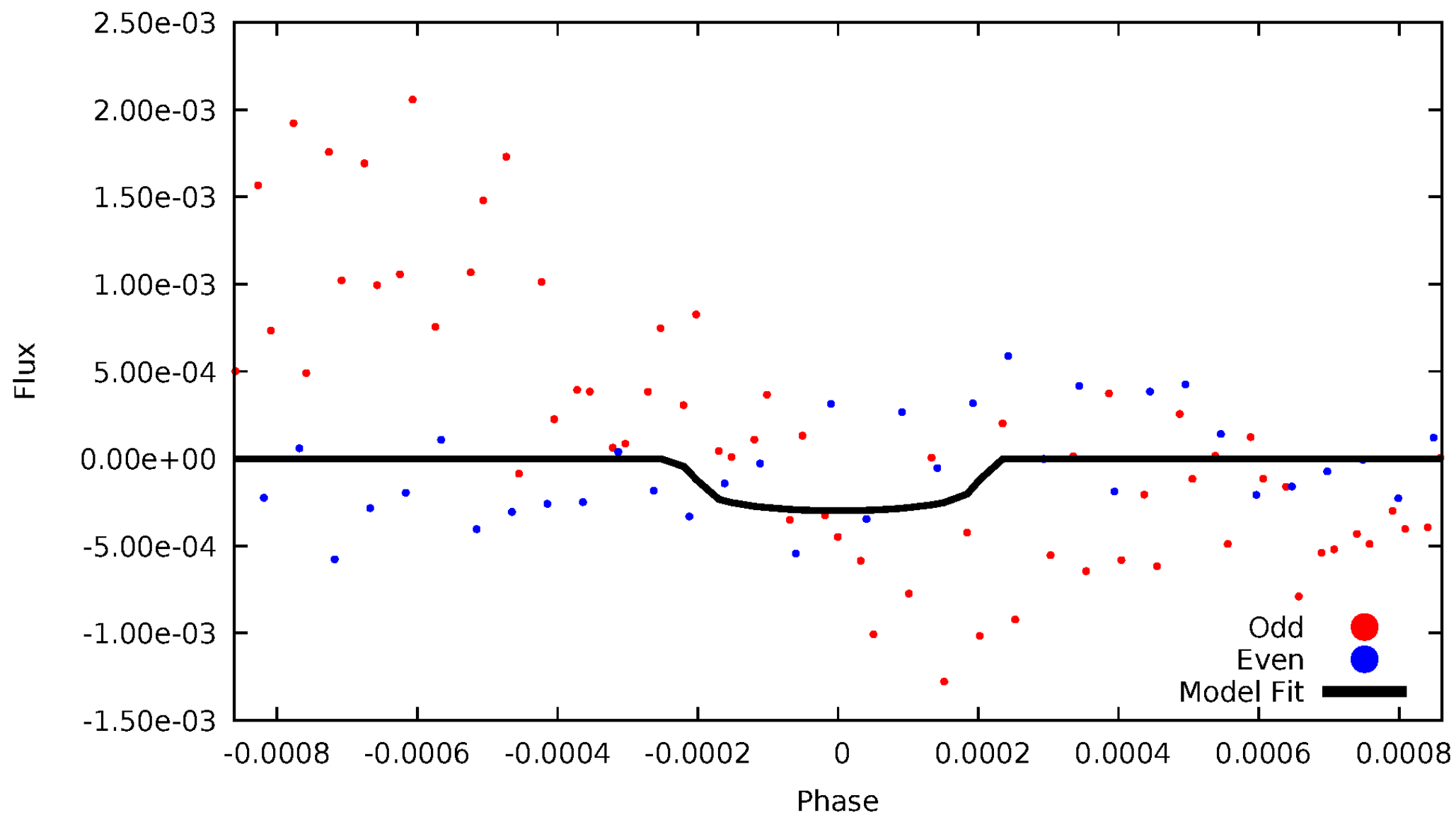


TCE 011192887-07



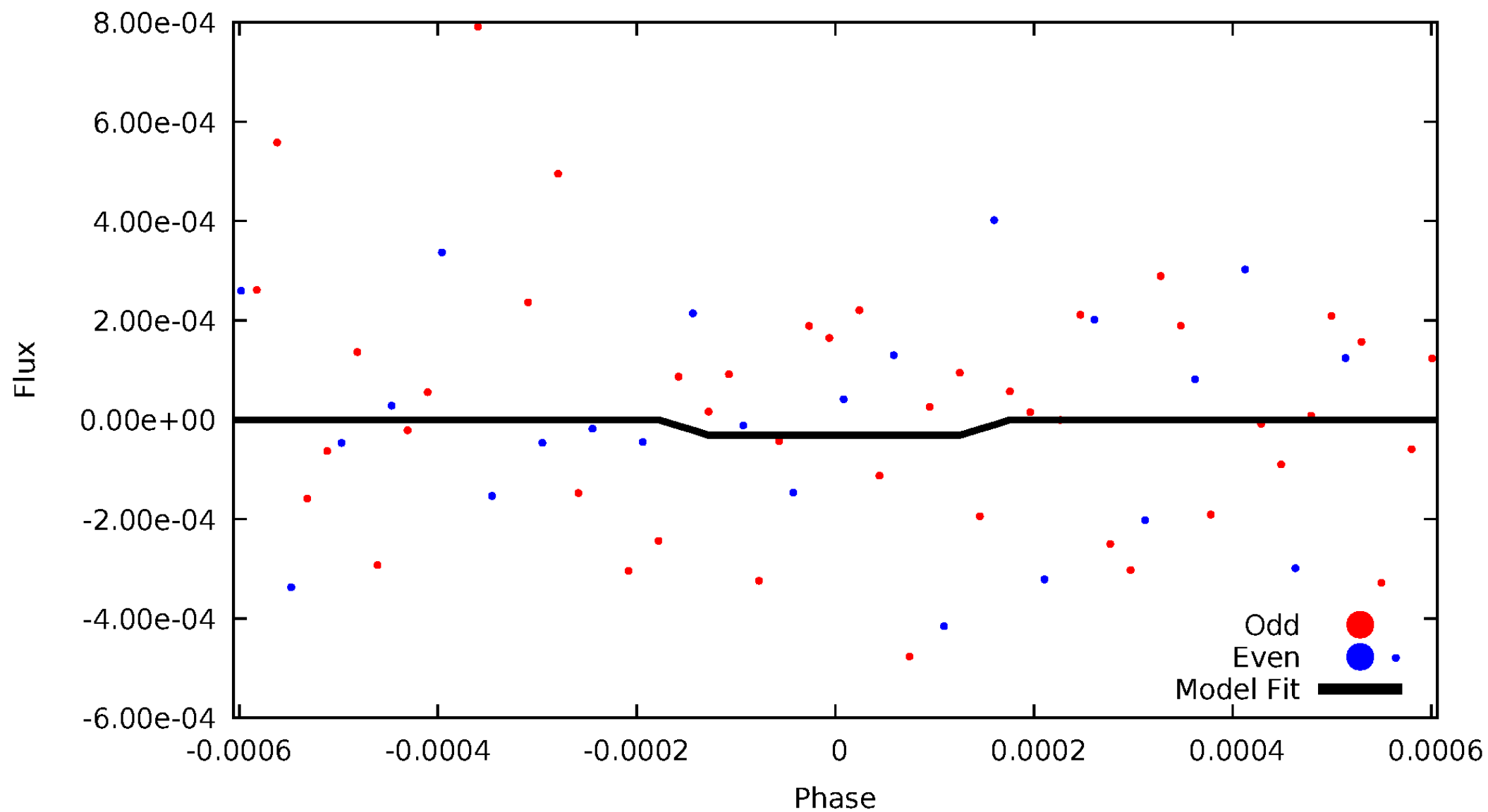
DV Odd/Even

TCE 011192887-07



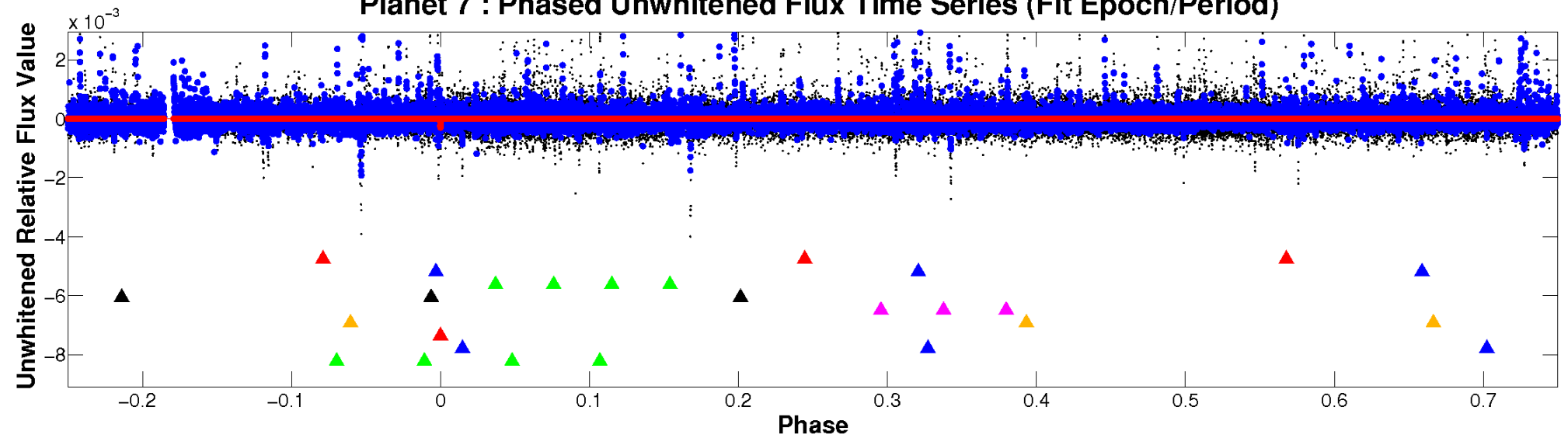
ALT Odd/Even

TCE 011192887-07

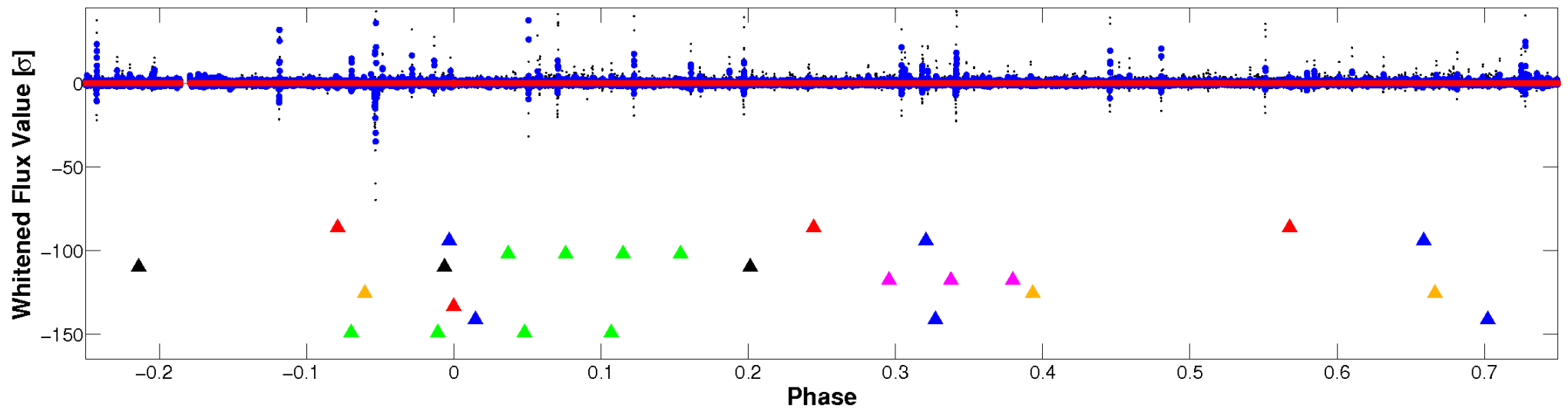


Non-Whitened Vs. Whitened Light Curve

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

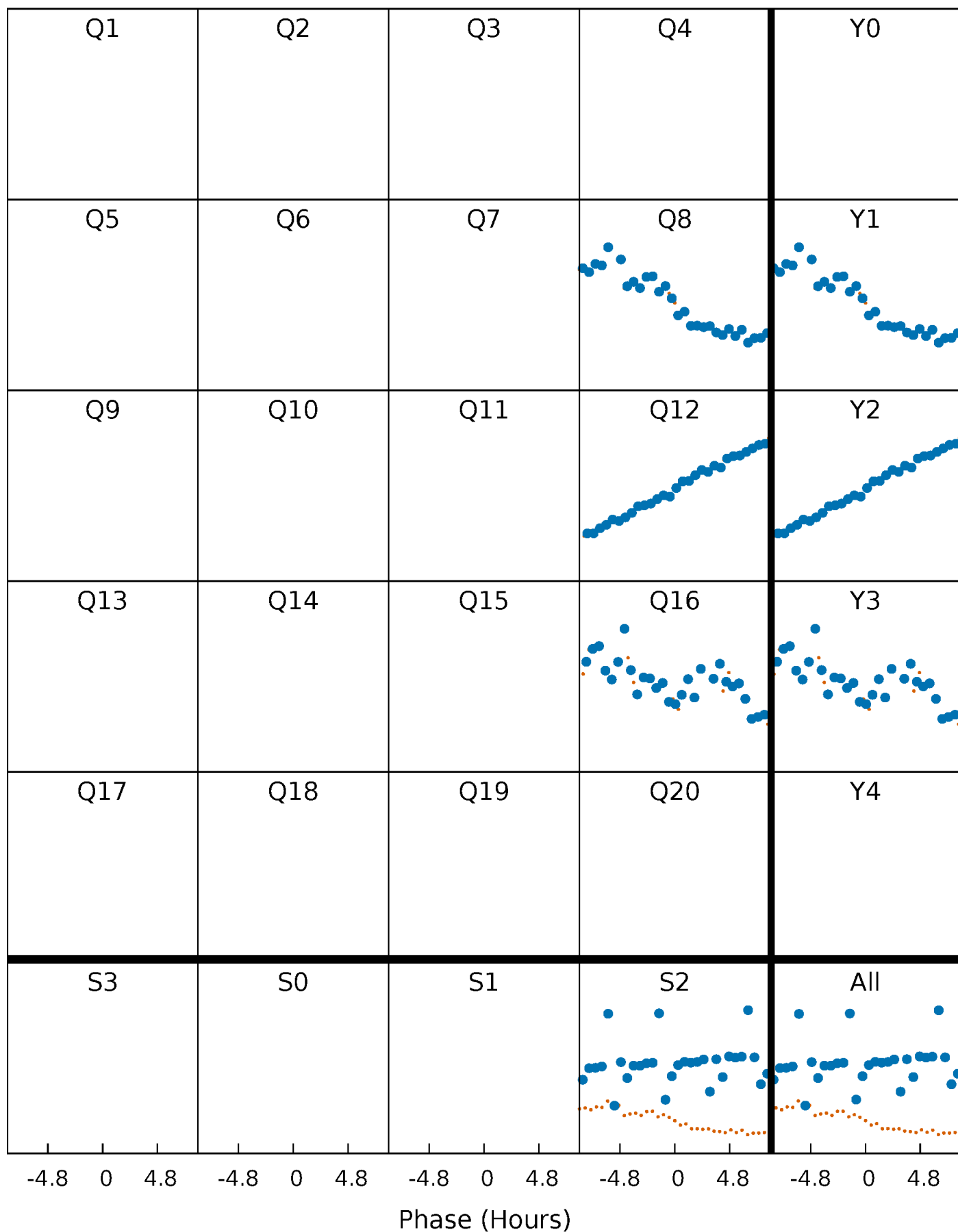


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



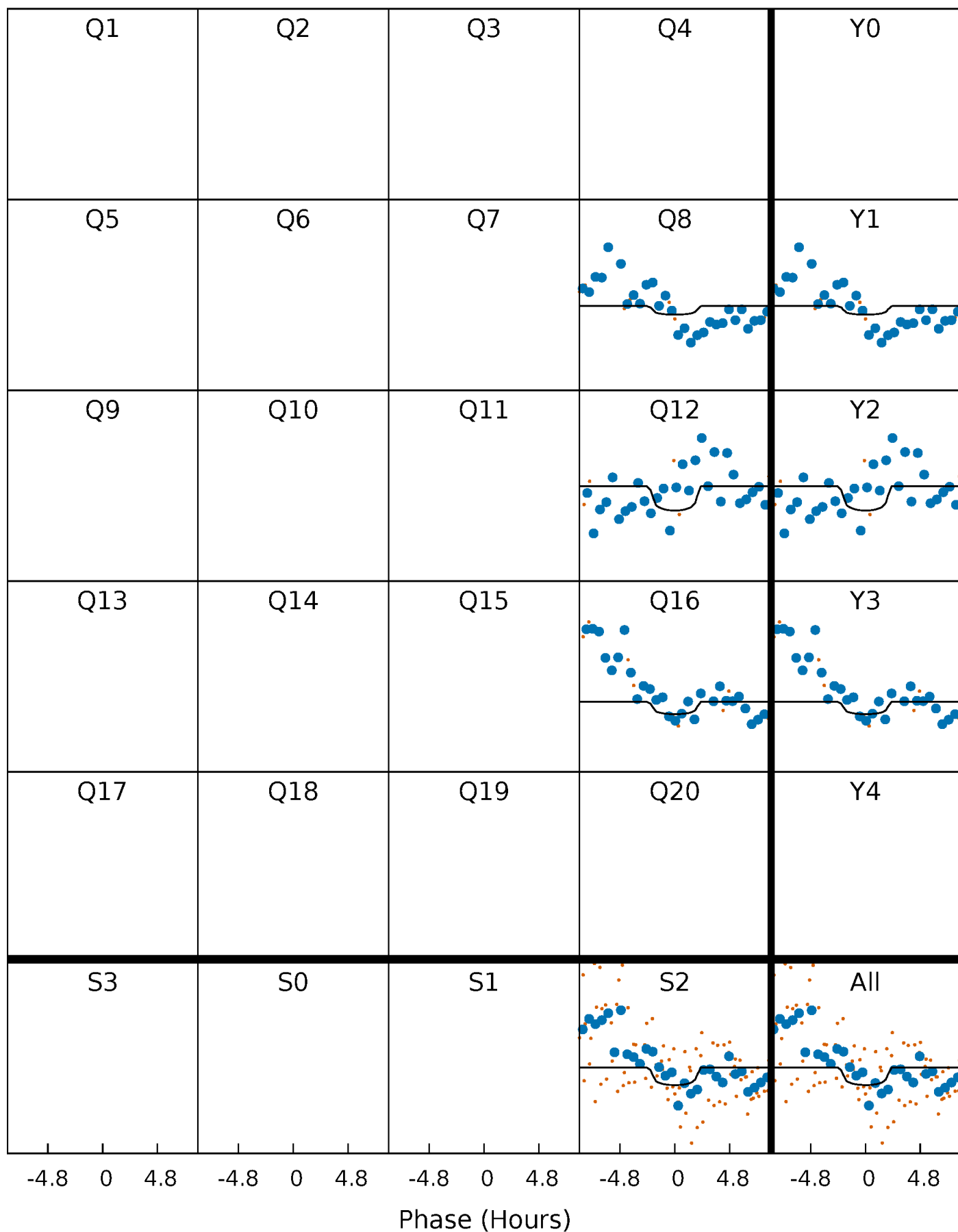
PDC Quarter-Phased Transit Curves

TCE 011192887-07 $P=404.261907$ Days $T_0=336.455507$ (BKJD)



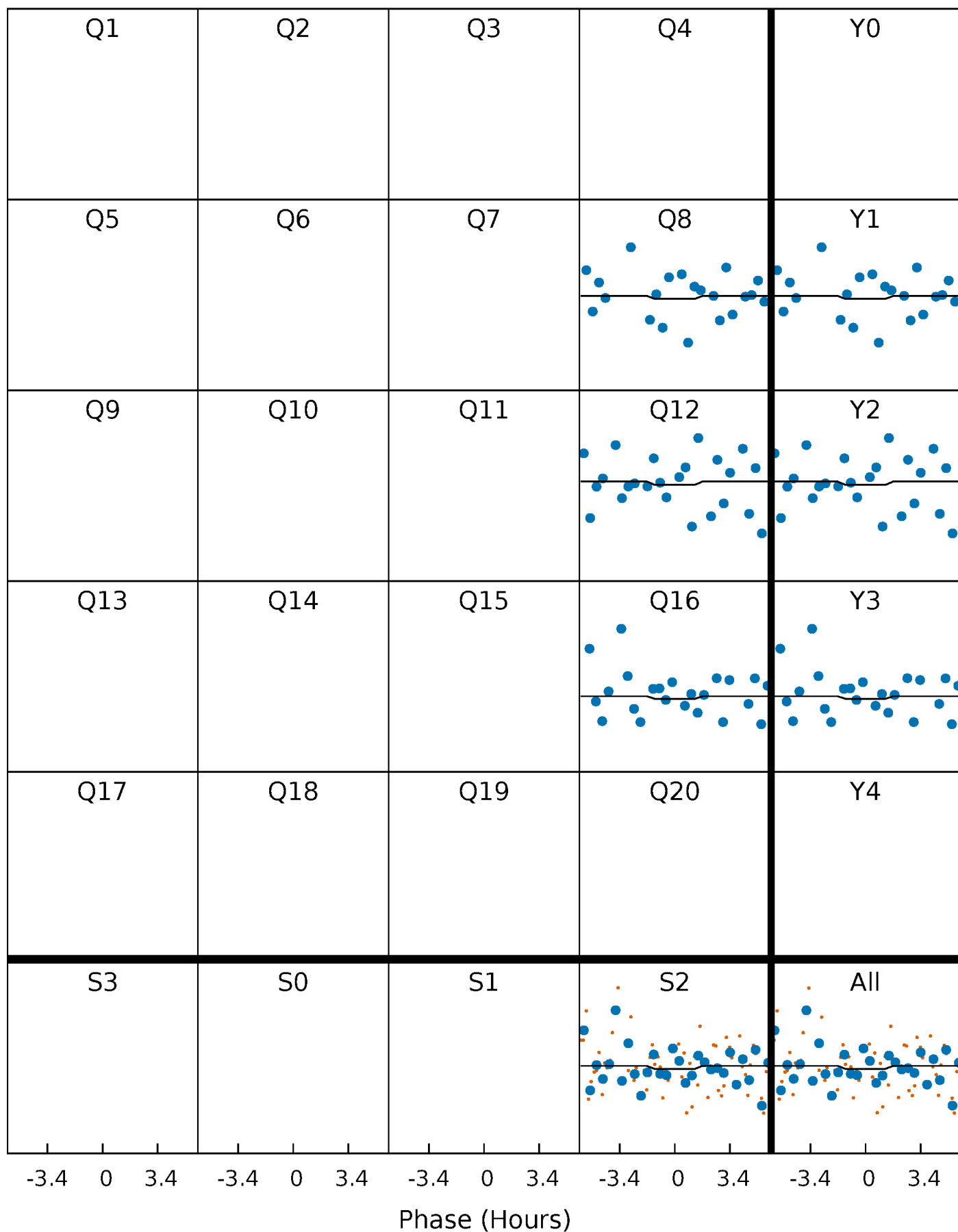
DV Quarter-Phased Transit Curves

TCE 011192887-07 $P=404.261907$ Days $T_0=336.455507$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

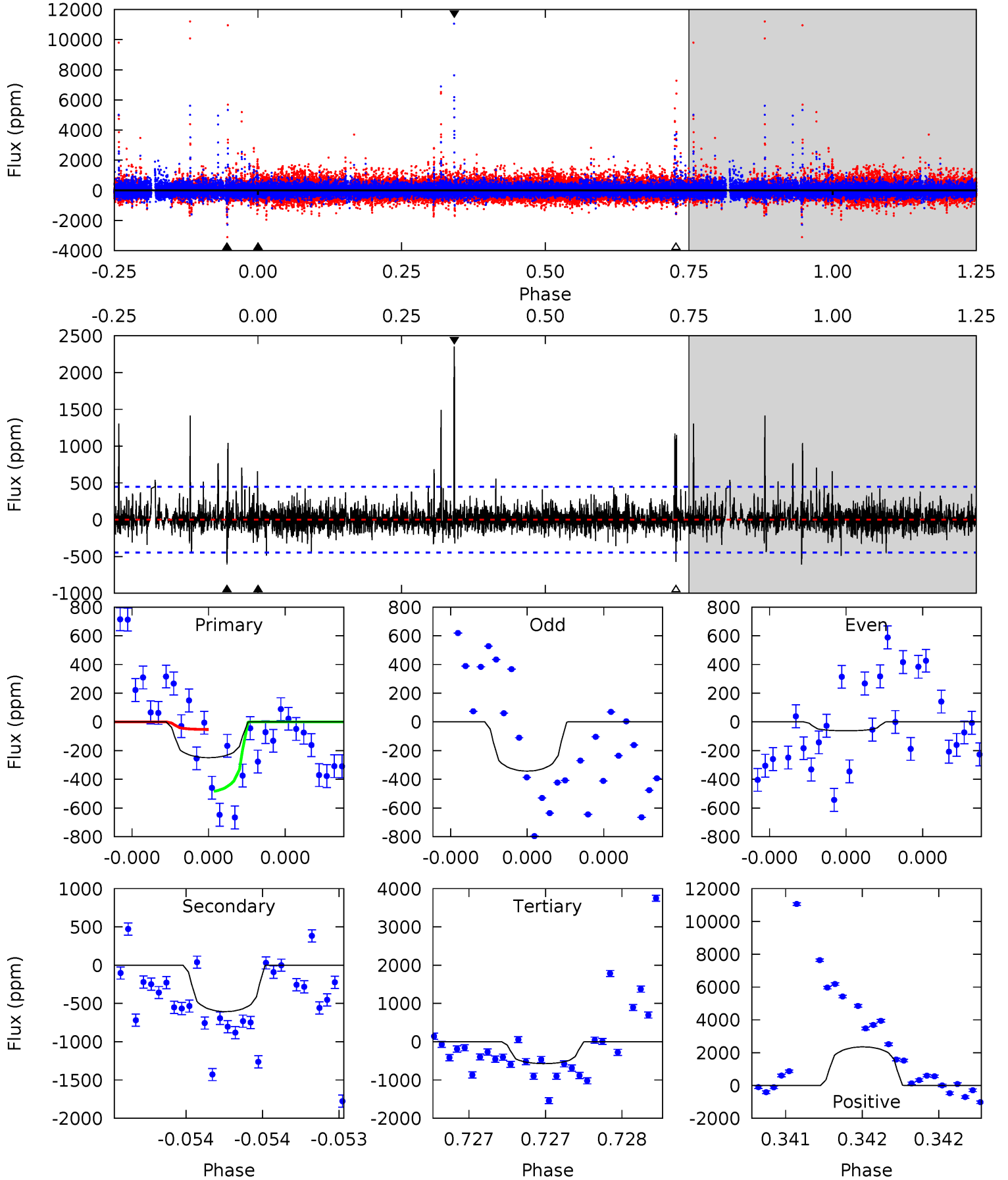
TCE 011192887-07 $P=404.284796$ Days $T_0=336.341047$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-07, P = 404.261907 Days, E = 336.455507 Days

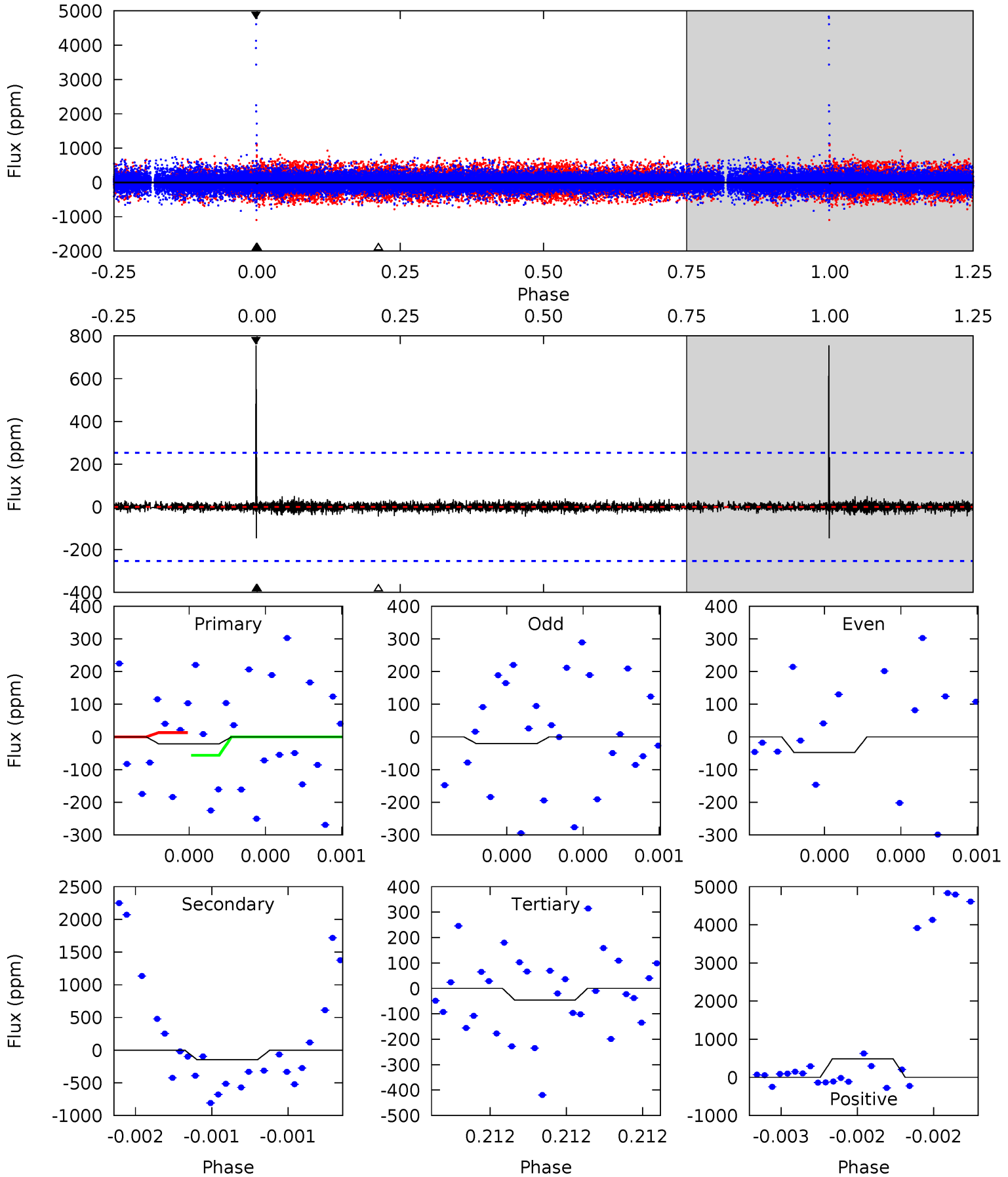
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
3.12	7.58	7.15	29.4	5.59	3.51	1.59	-4.03	-26.3	0.43	-21.8	0.85	1.01	0.80	2.70



Alt Model-Shift Uniqueness Test

011192887-07, P = 404.284796 Days, E = 336.341047 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0.48	3.27	1.02	10.9	5.65	3.60	0.35	-0.55	-10.4	2.25	-7.65	0.25	0.91	0.84	0.50



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-07 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-606 ± 80	$4.06^{+3.64}_{-2.91}$	261^{+10}_{-9}	3691^{+2391}_{-686}	$16952^{+189972}_{-12404}$
Alt.	-146 ± 45	$3.43^{+3.87}_{-2.41}$	261^{+10}_{-9}	3080^{+1619}_{-546}	5518^{+59998}_{-4352}

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 $A_{obs} \gg 1.0$

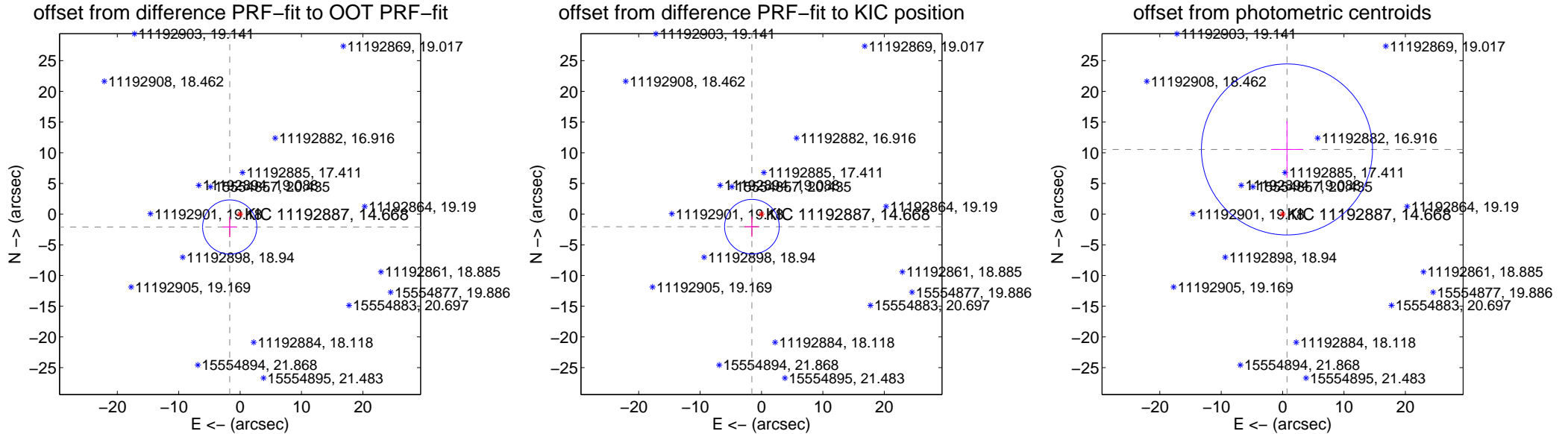
DV Centroid Data

Supplemental centroid analysis for 011192887-07. Kepler magnitude: 14.67. Transit SNR 2.28

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.14 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	2.694 ± 1.472	1.83	1.691 ± 1.184	-2.097 ± 1.632
PRF-fit source offset from KIC position	2.572 ± 1.483	1.73	1.559 ± 1.184	-2.045 ± 1.632
photometric centroid source offset	10.56 ± 4.64	2.27	-0.71 ± 2.62	10.54 ± 4.65



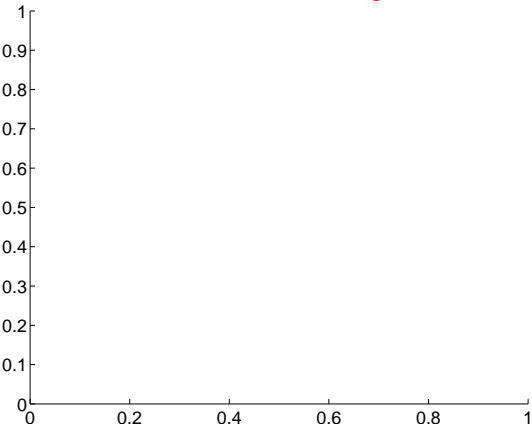
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

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

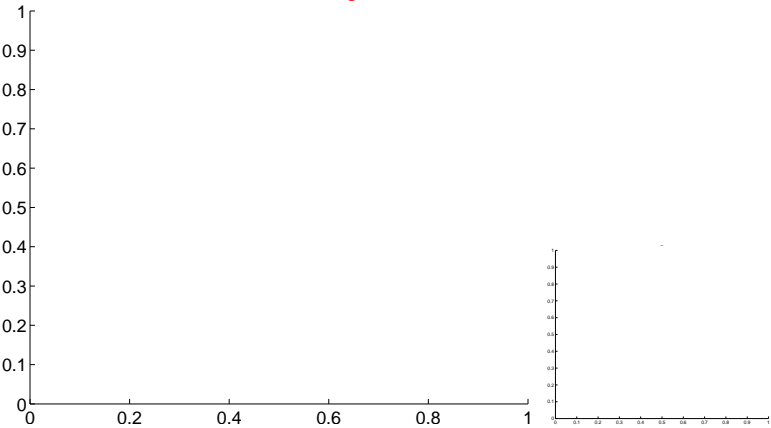


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

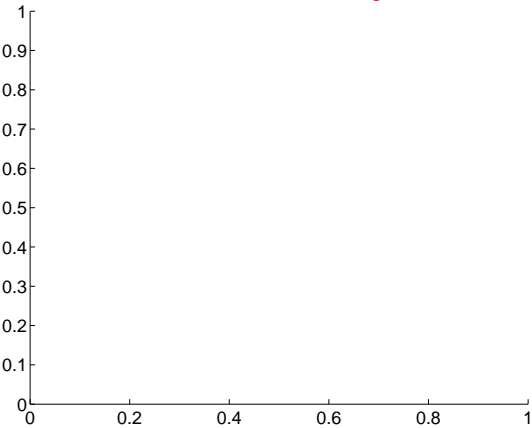
Q5 no difference image



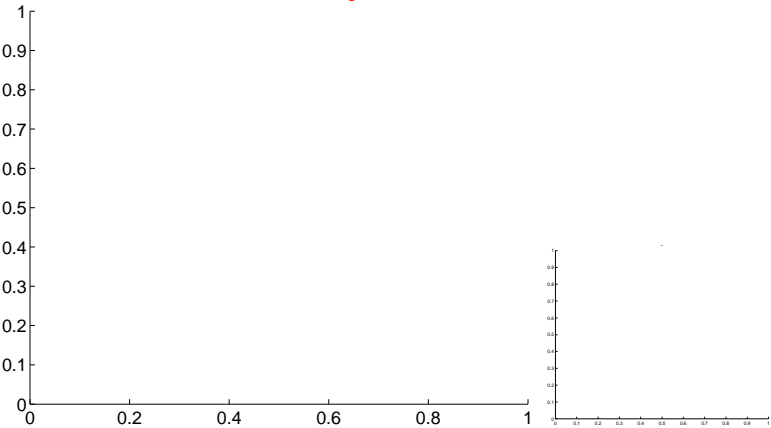
Q5 no OOT image



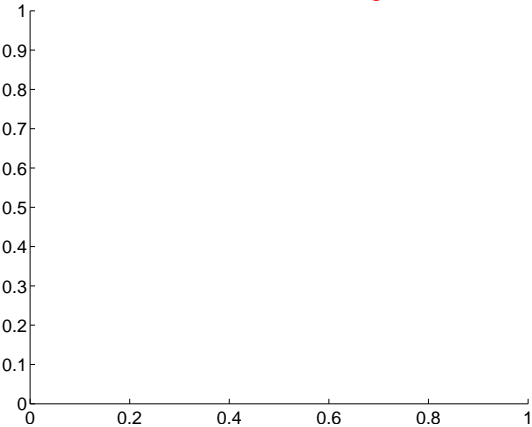
Q6 no difference image



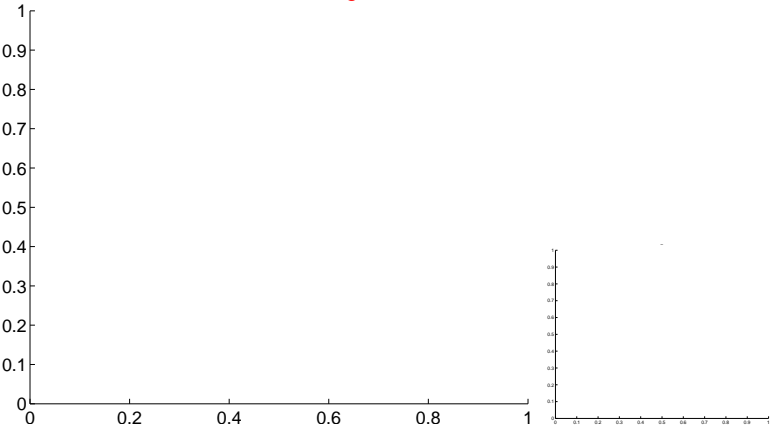
Q6 no OOT image



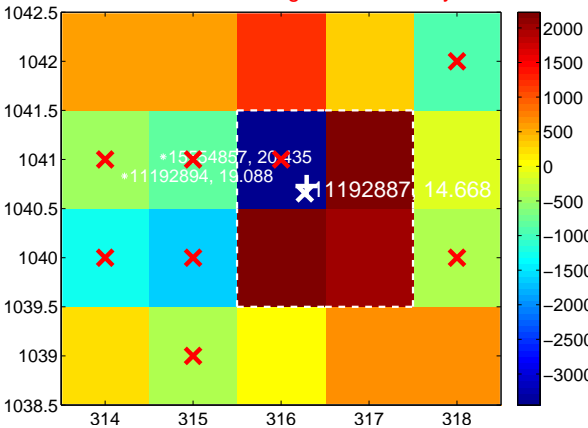
Q7 no difference image



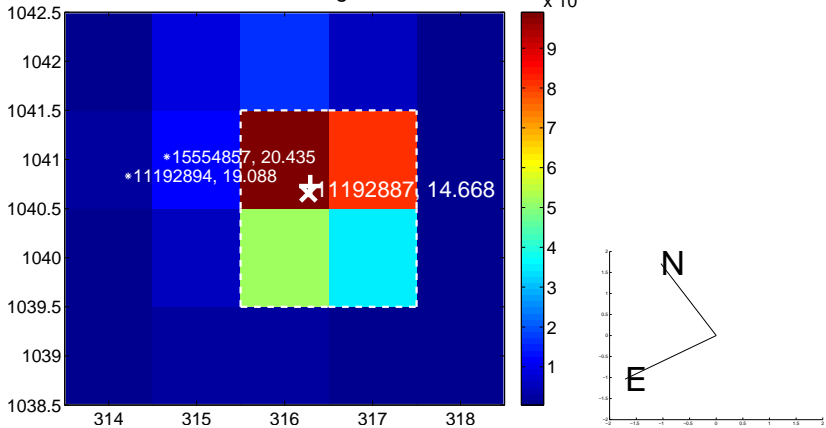
Q7 no OOT image



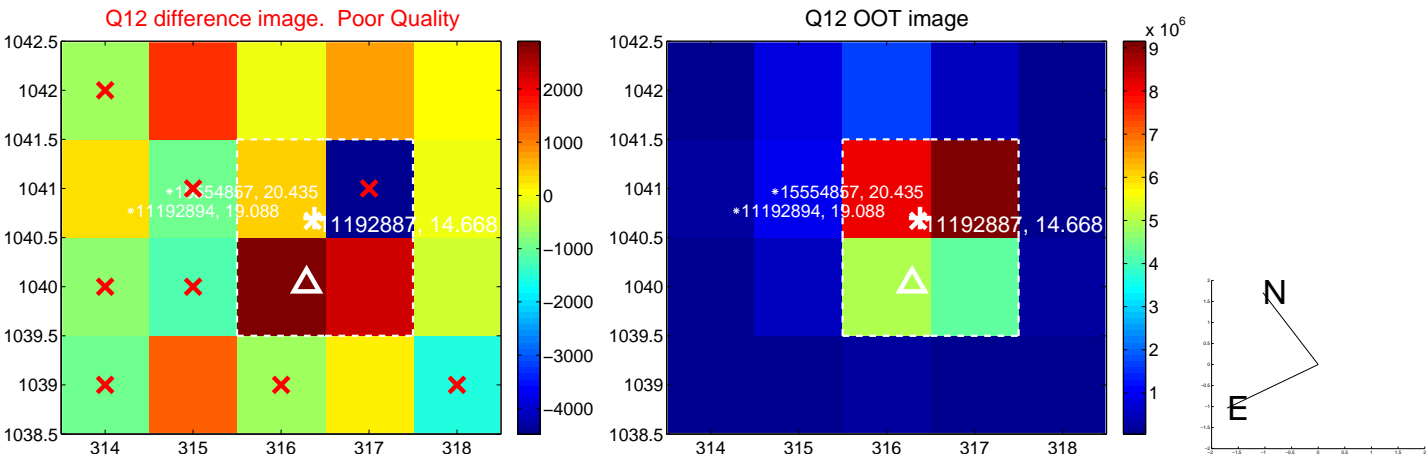
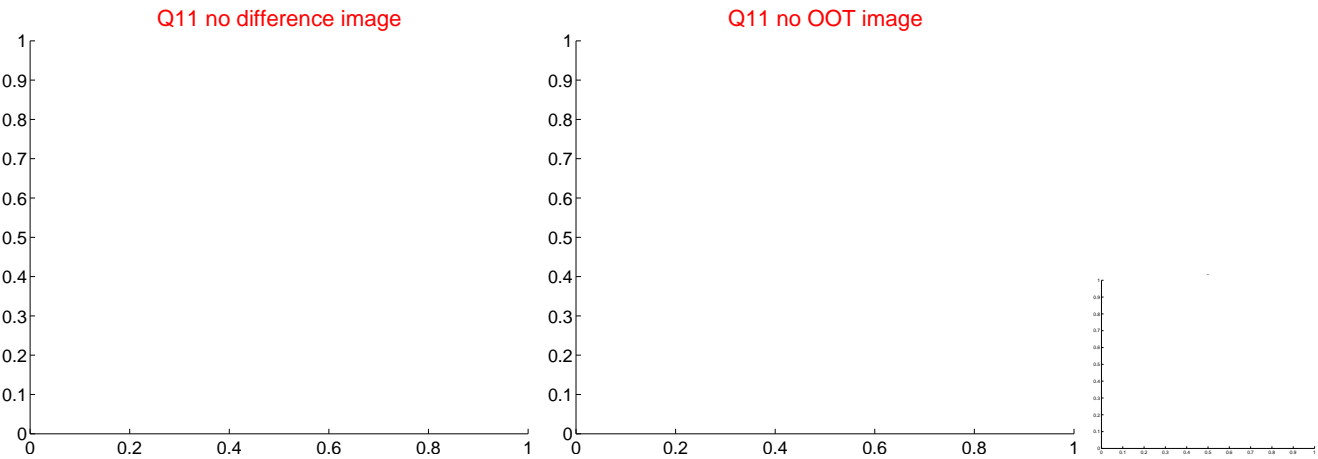
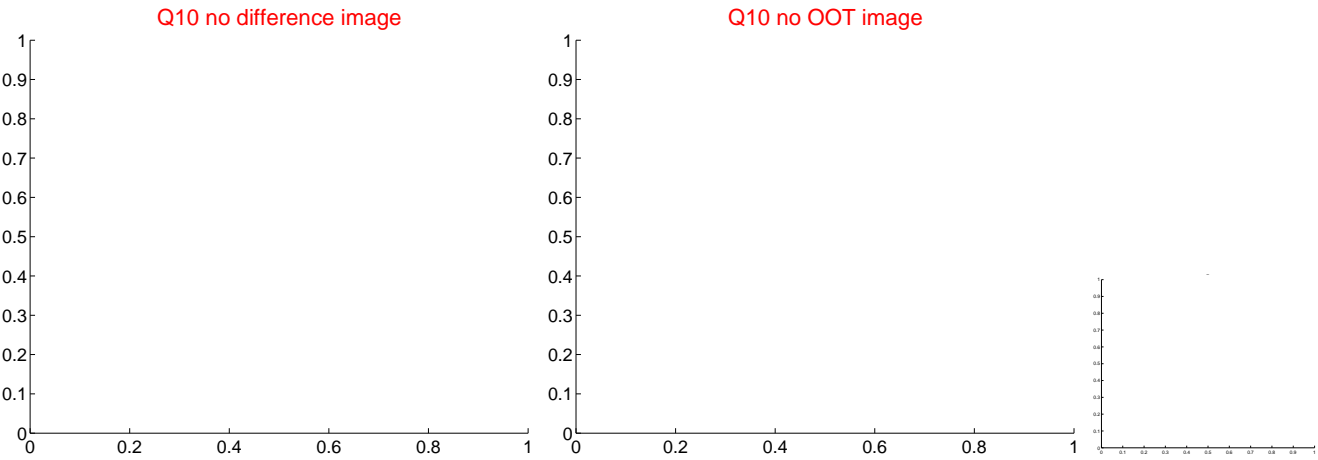
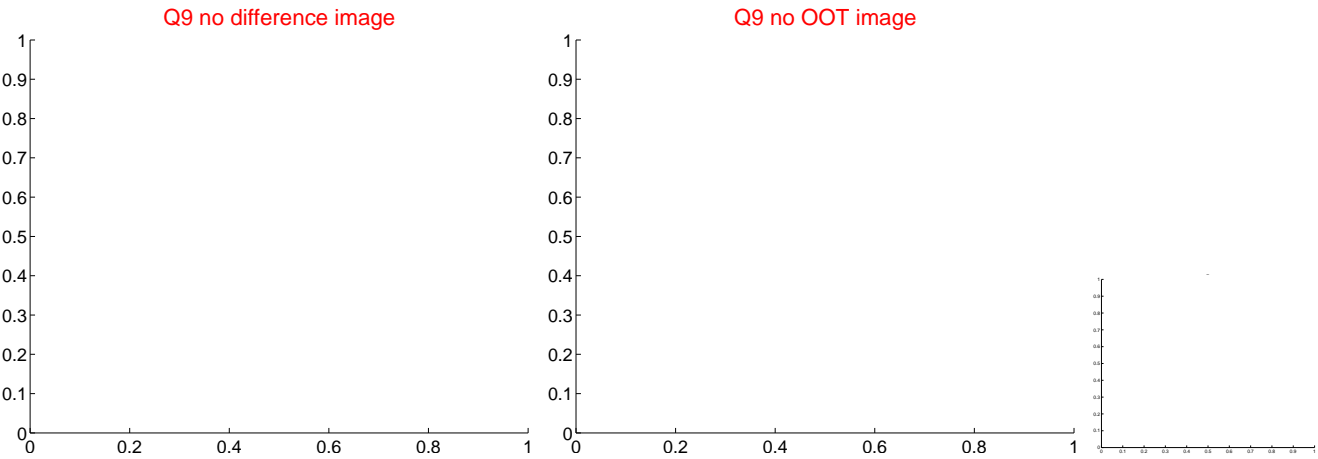
Q8 difference image. Poor Quality



Q8 OOT image



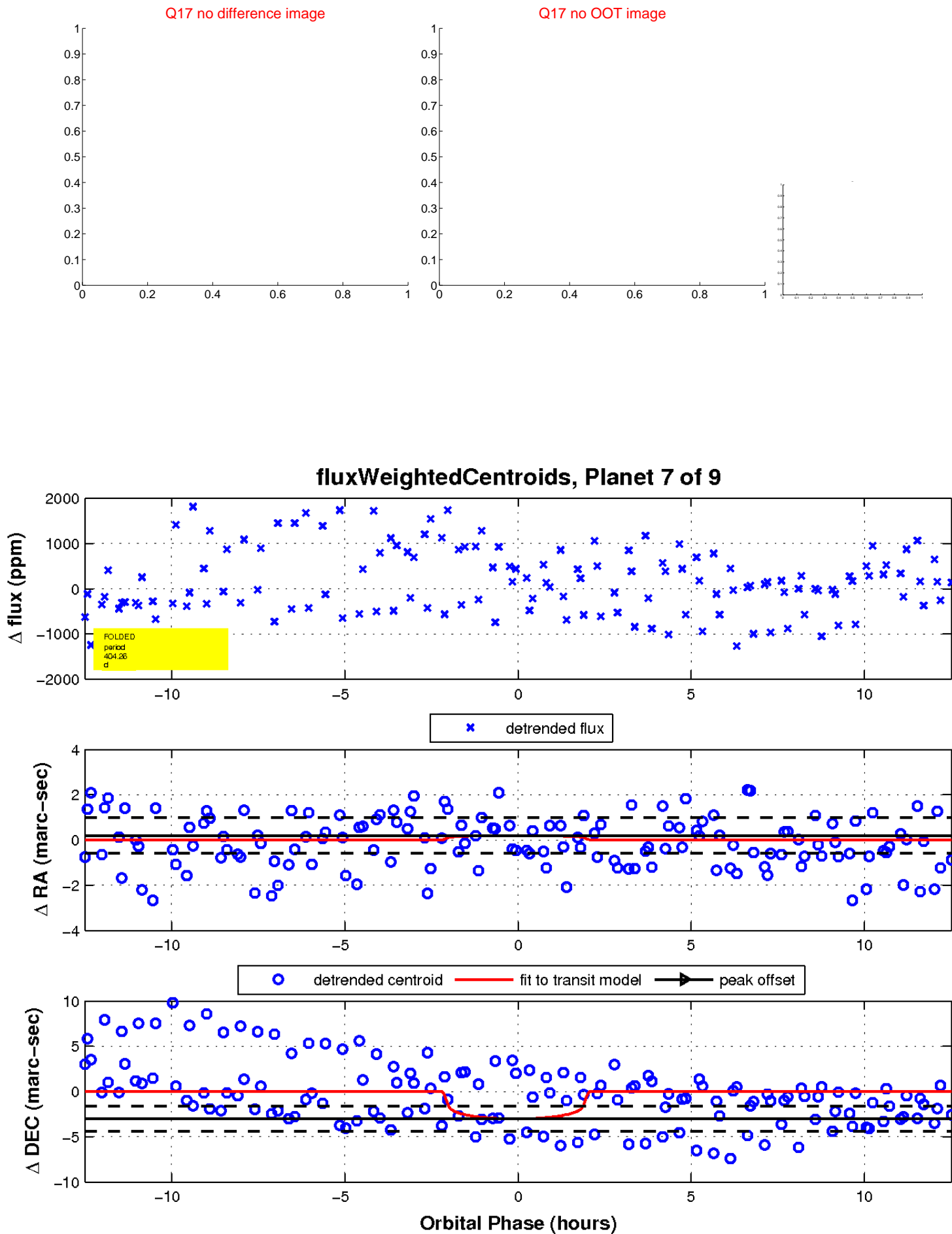
white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.



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

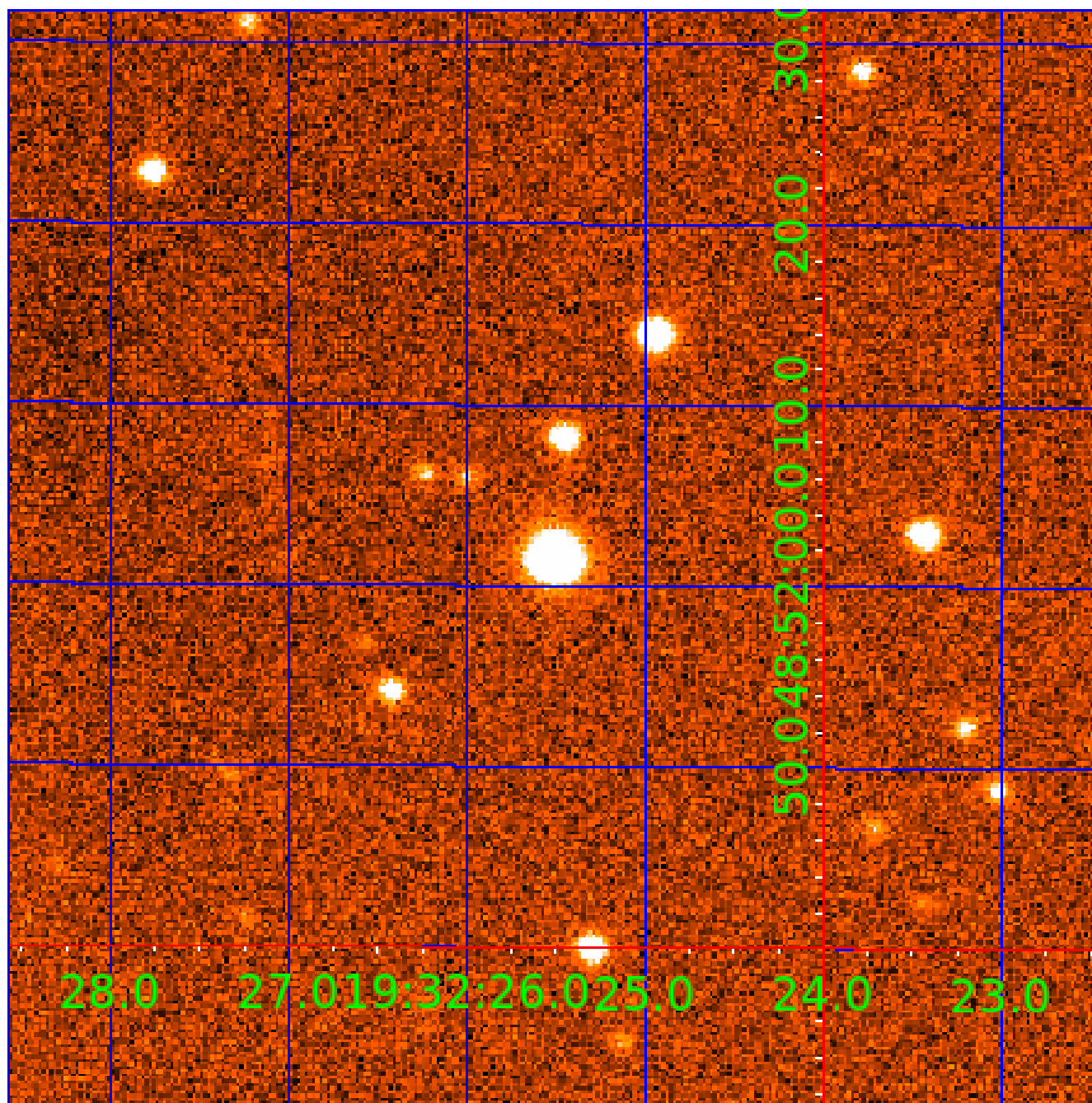


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

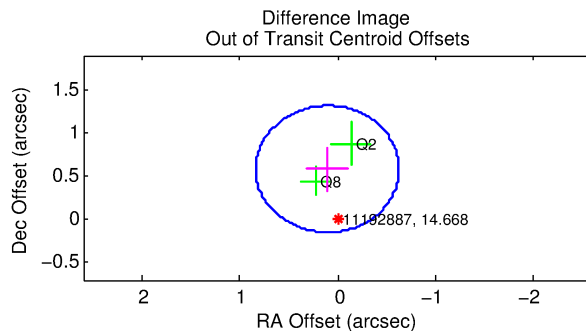
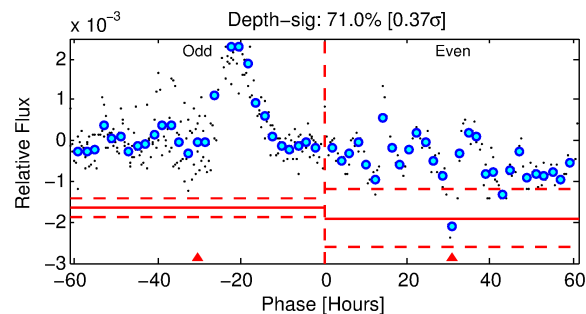
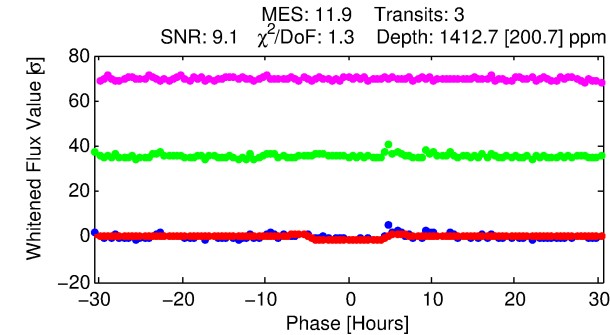
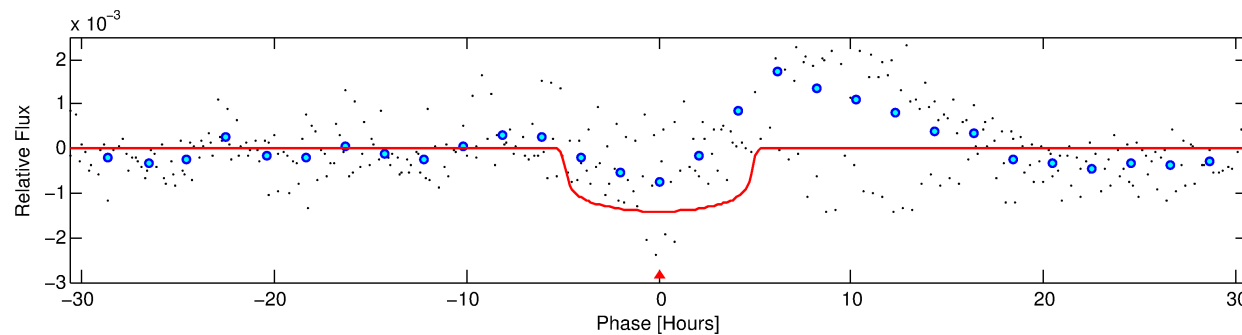
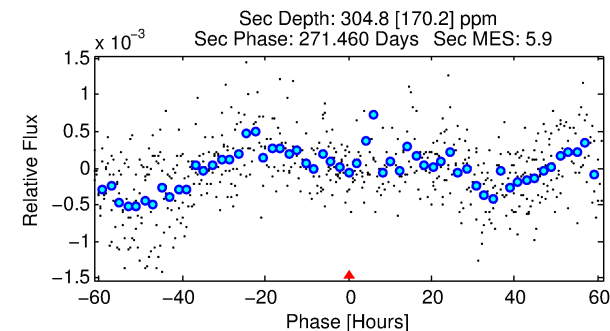
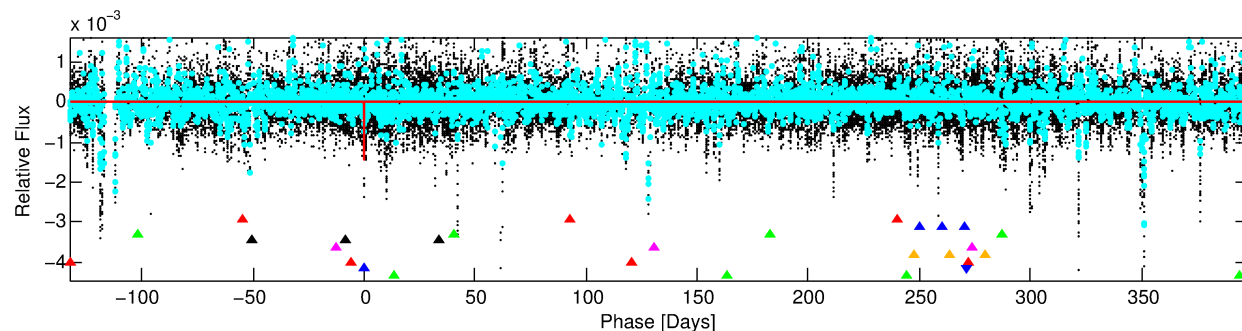
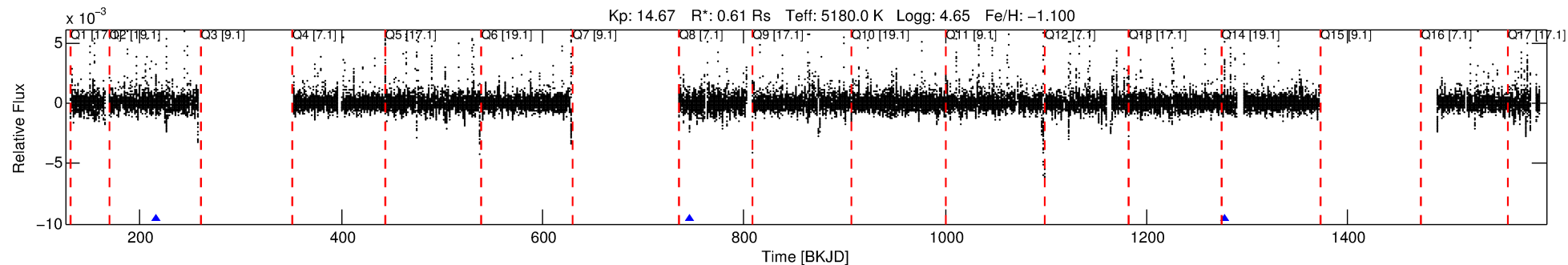
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-08

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 8 of 9 Period: 530.565 d



DV Fit Results:

Period = 530.56516 [0.00696] d
Epoch = 216.1233 [0.0084] BKJD
Rp/R* = 0.0345 [0.0141]
a/R* = 392.00 [675.10]
b = 0.31 [5.03]
Seff = 0.20 [0.03]
Teq = 172 [7] K
Rp = 2.31 [0.95] Re
a = 1.0877 [0.0720] AU
Ag = 37295.86 [37067.61] [1.01 σ]
Teffp = 3686 [919] K [3.82 σ]

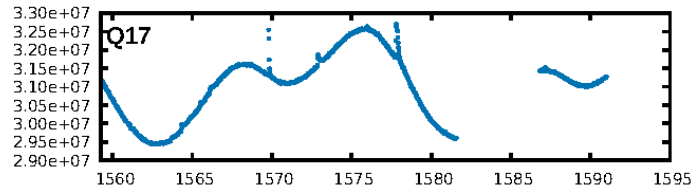
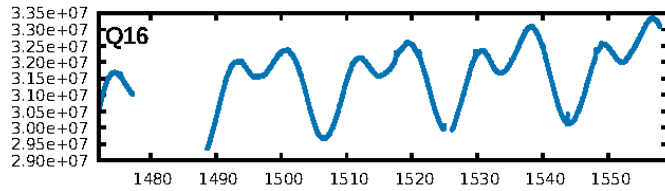
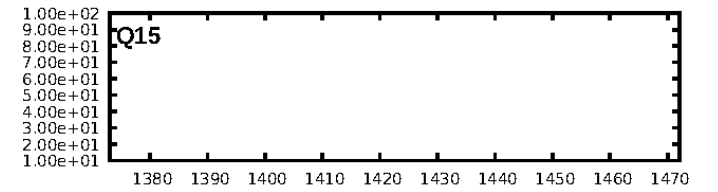
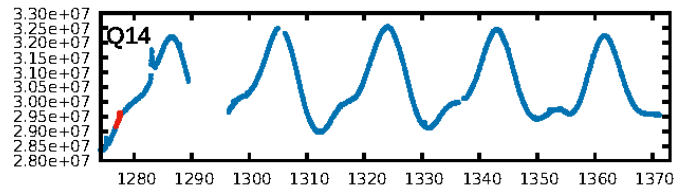
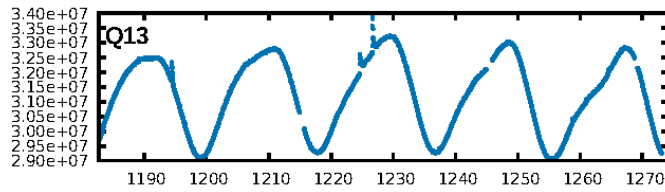
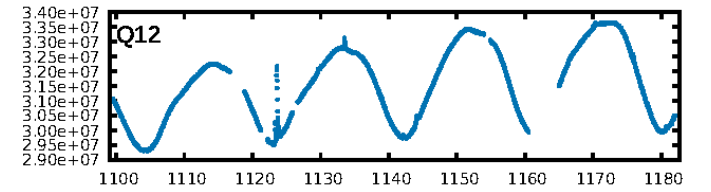
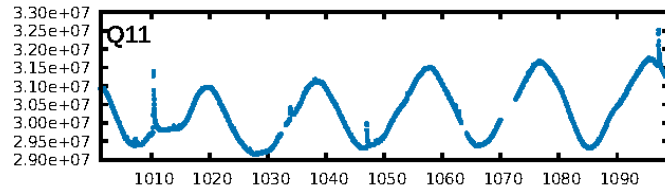
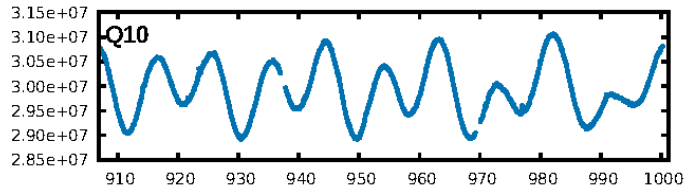
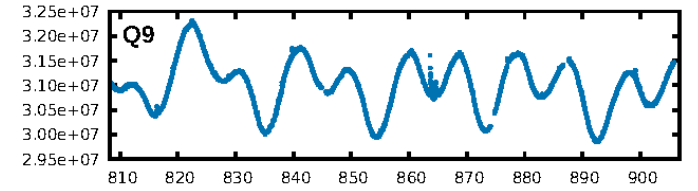
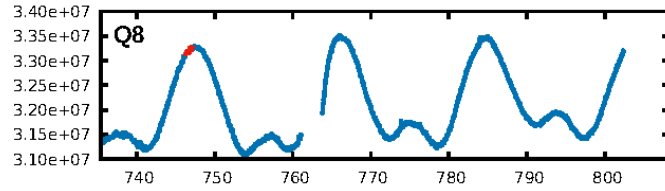
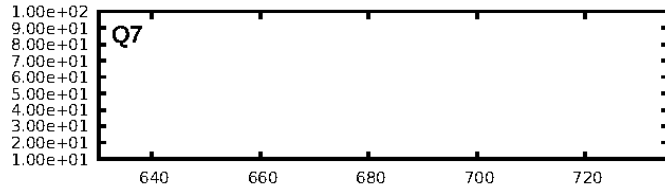
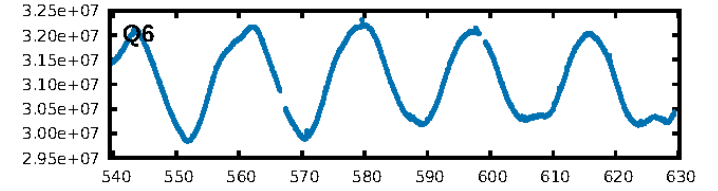
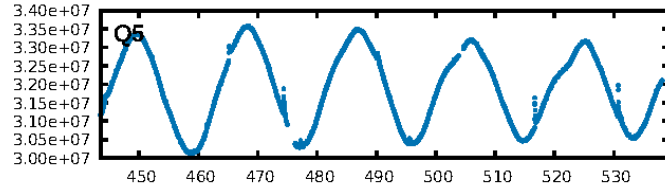
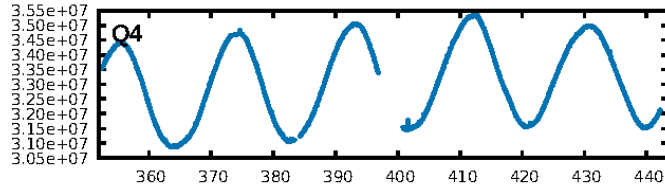
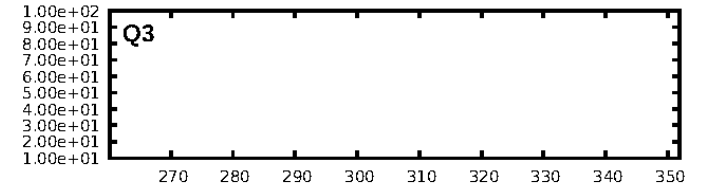
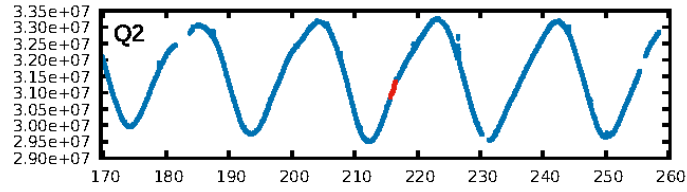
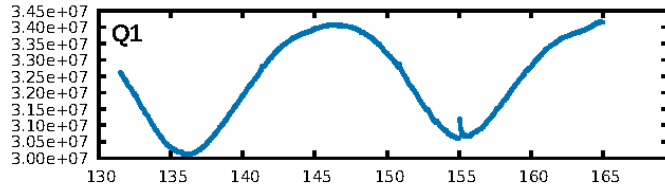
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [32.12 σ]
LongPeriod-sig: 100.0% [20.97 σ]
ModelChiSquare2-sig: 7.8%
ModelChiSquareGof-sig: 71.9%
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: -0.0004353
Centroid-sig: 5.3%
Centroid-so: 1.312 arcsec [1.67 σ]
OotOffset-rm: 0.594 arcsec [2.43 σ]
OotOffset-st: 1/0/1/0 [2]
KicOffset-rm: **0.776 arcsec [3.67 σ]**
KicOffset-st: 1/0/1/0 [2]
DiffImageQuality-fgm: 0.50 [1/2]
DiffImageOverlap-fno: 1.00 [3/3]

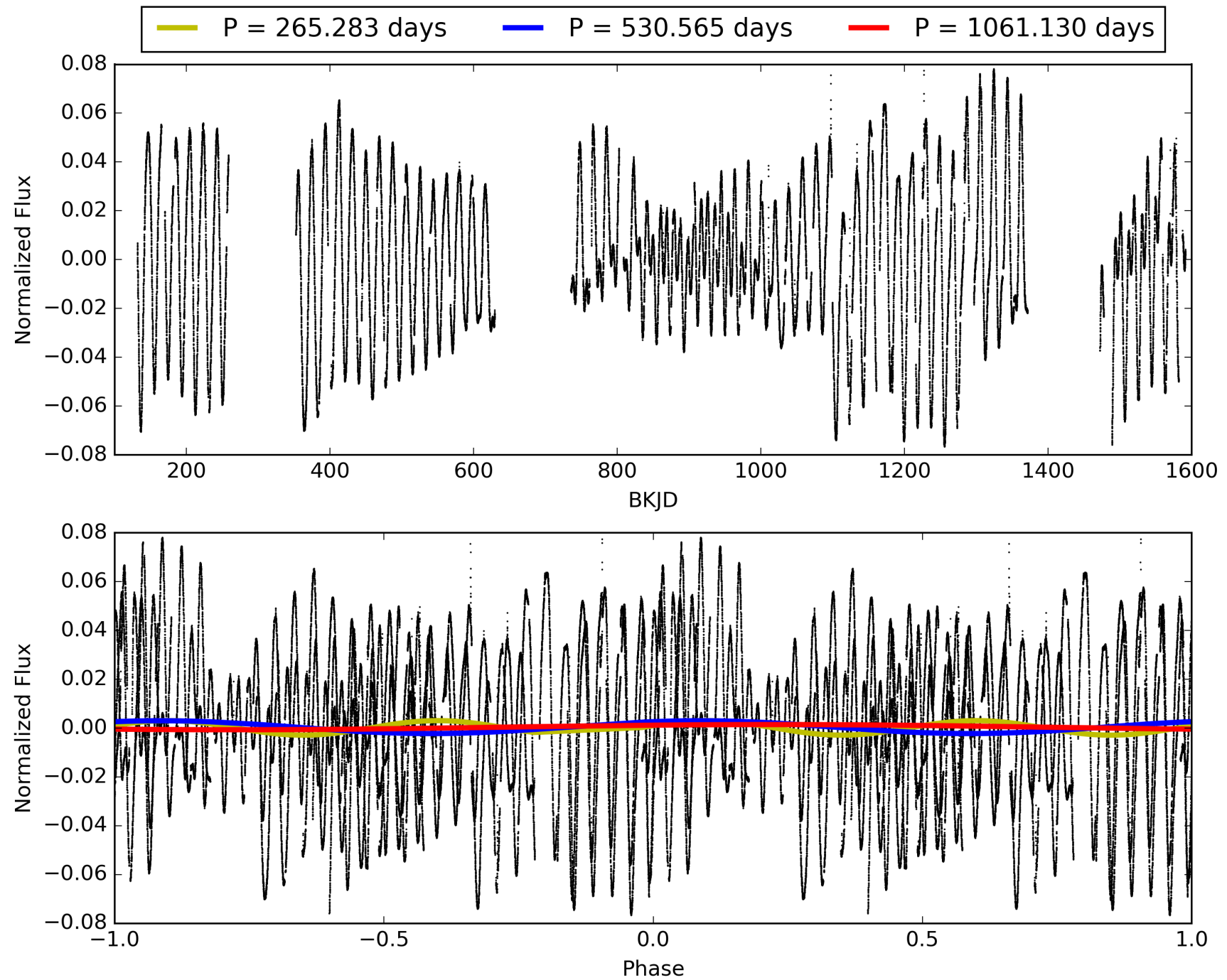
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:43:22 Z

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

TCE 011192887-08, PDC Light Curves

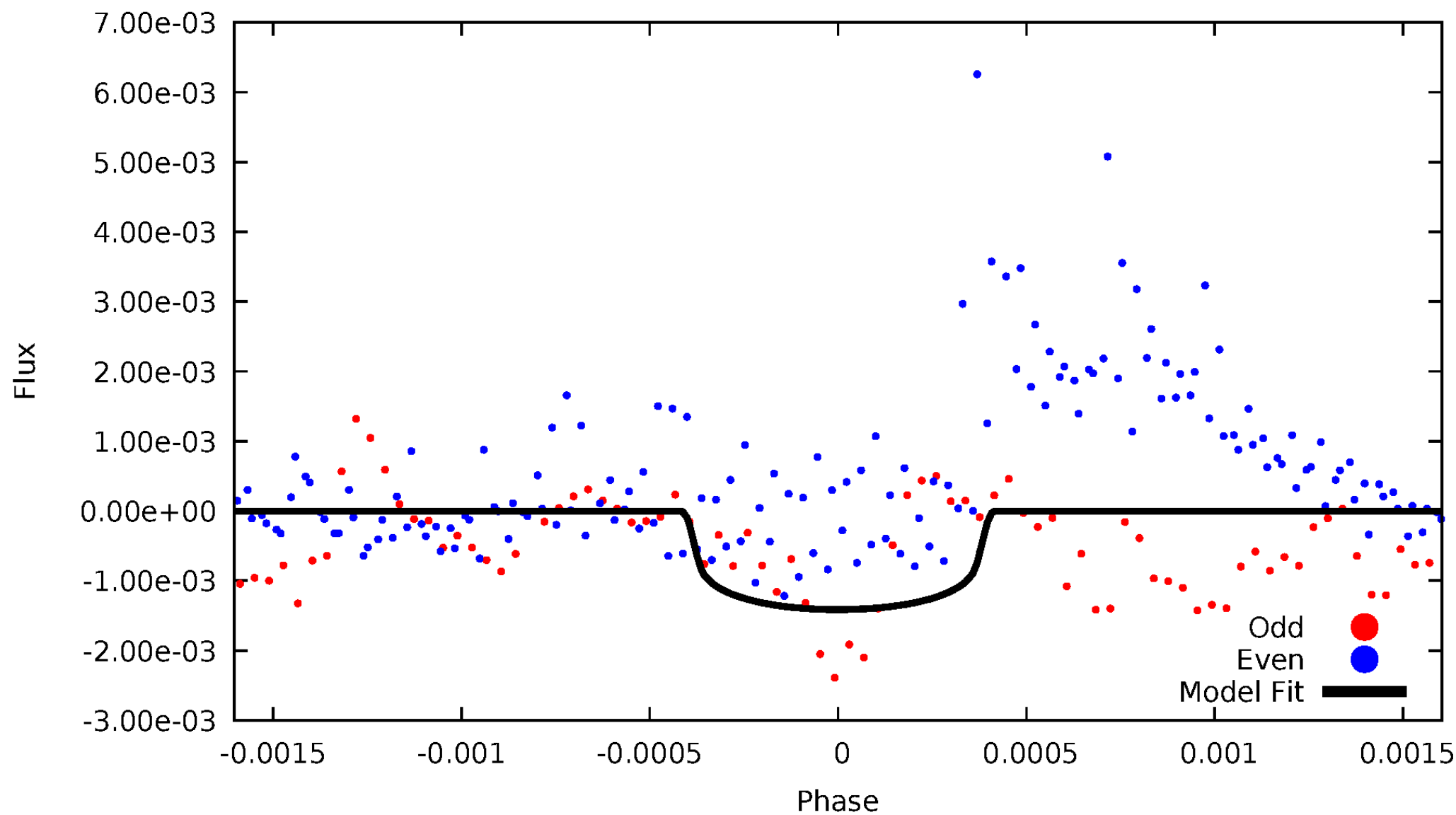


TCE 011192887-08



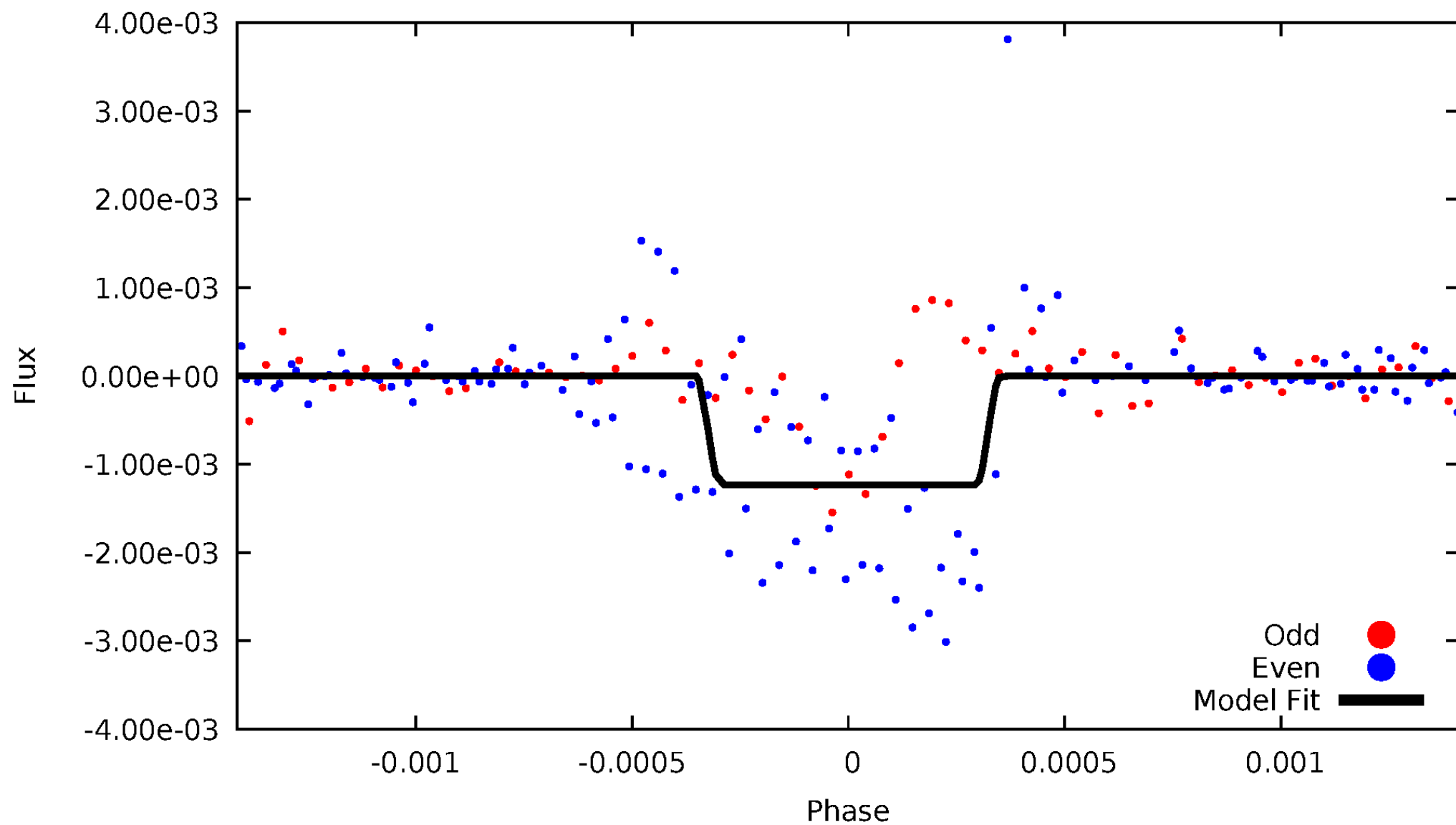
DV Odd/Even

TCE 011192887-08



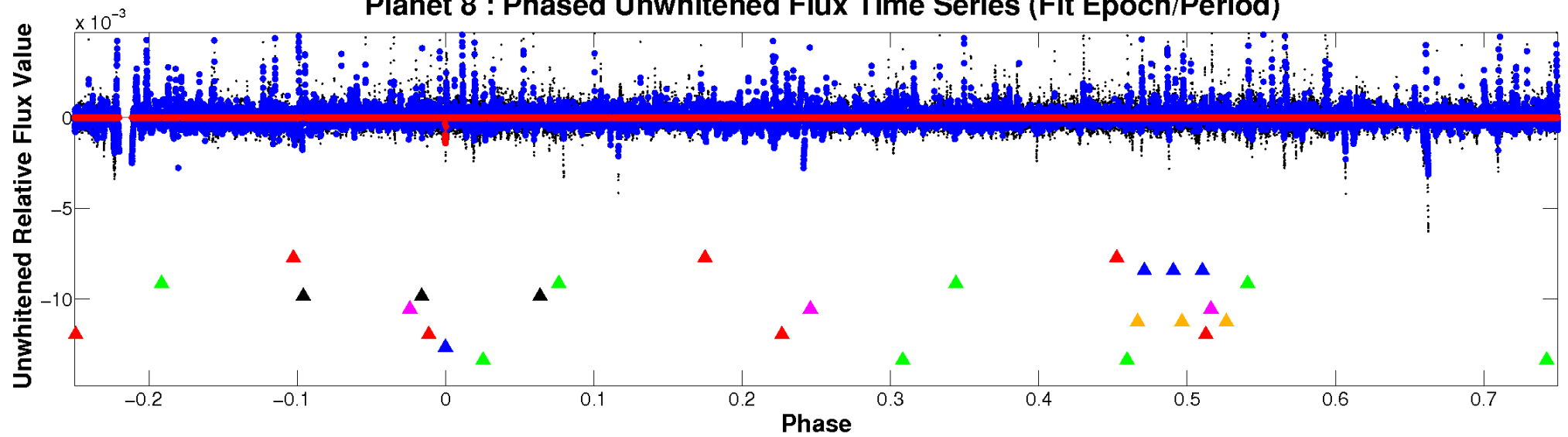
ALT Odd/Even

TCE 011192887-08

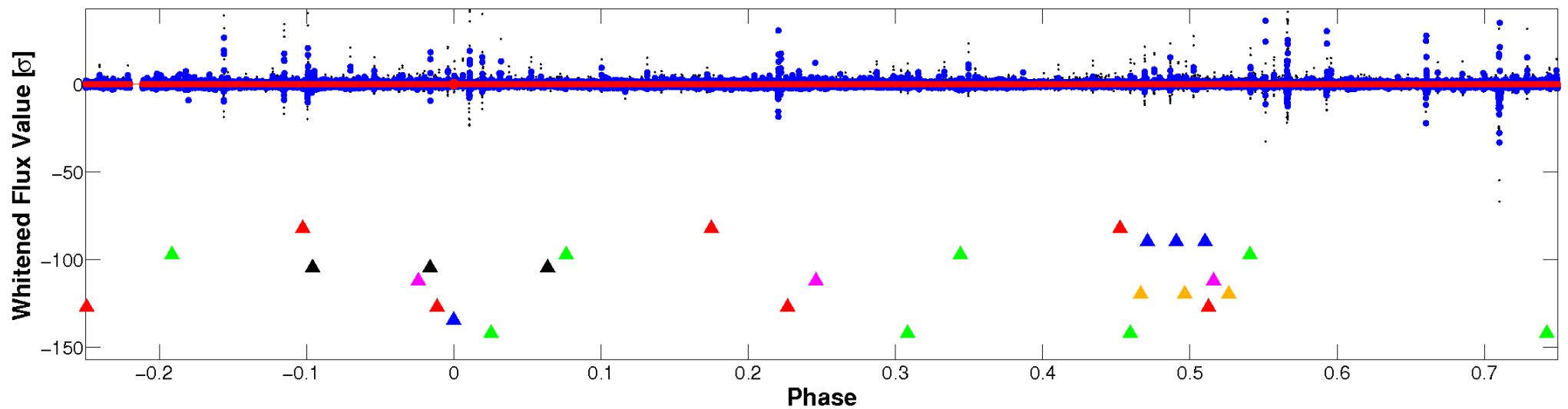


Non-Whitened Vs. Whitened Light Curve

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

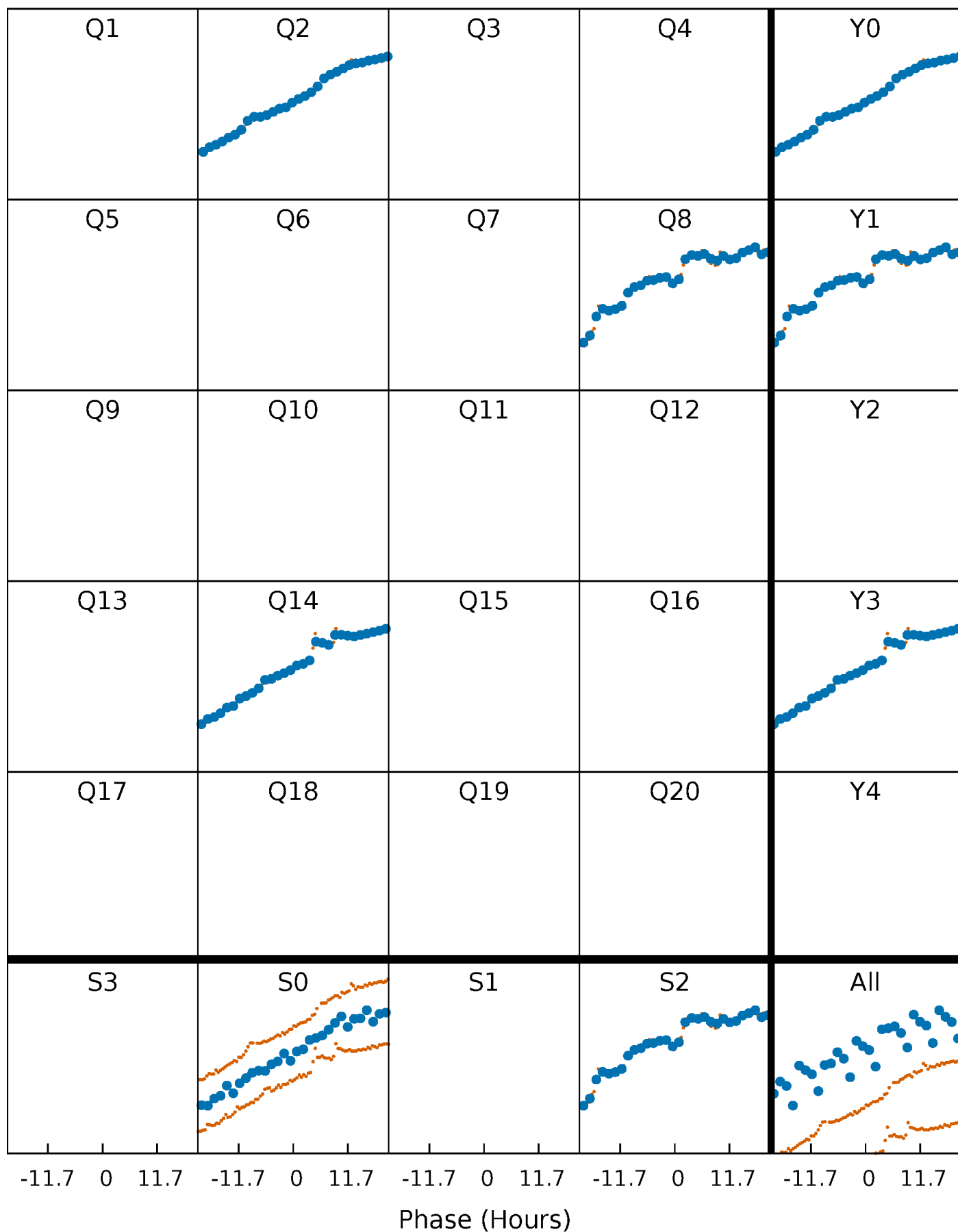


Planet 8 : Phased Whitened Flux Time Series (Fit Epoch/Period)



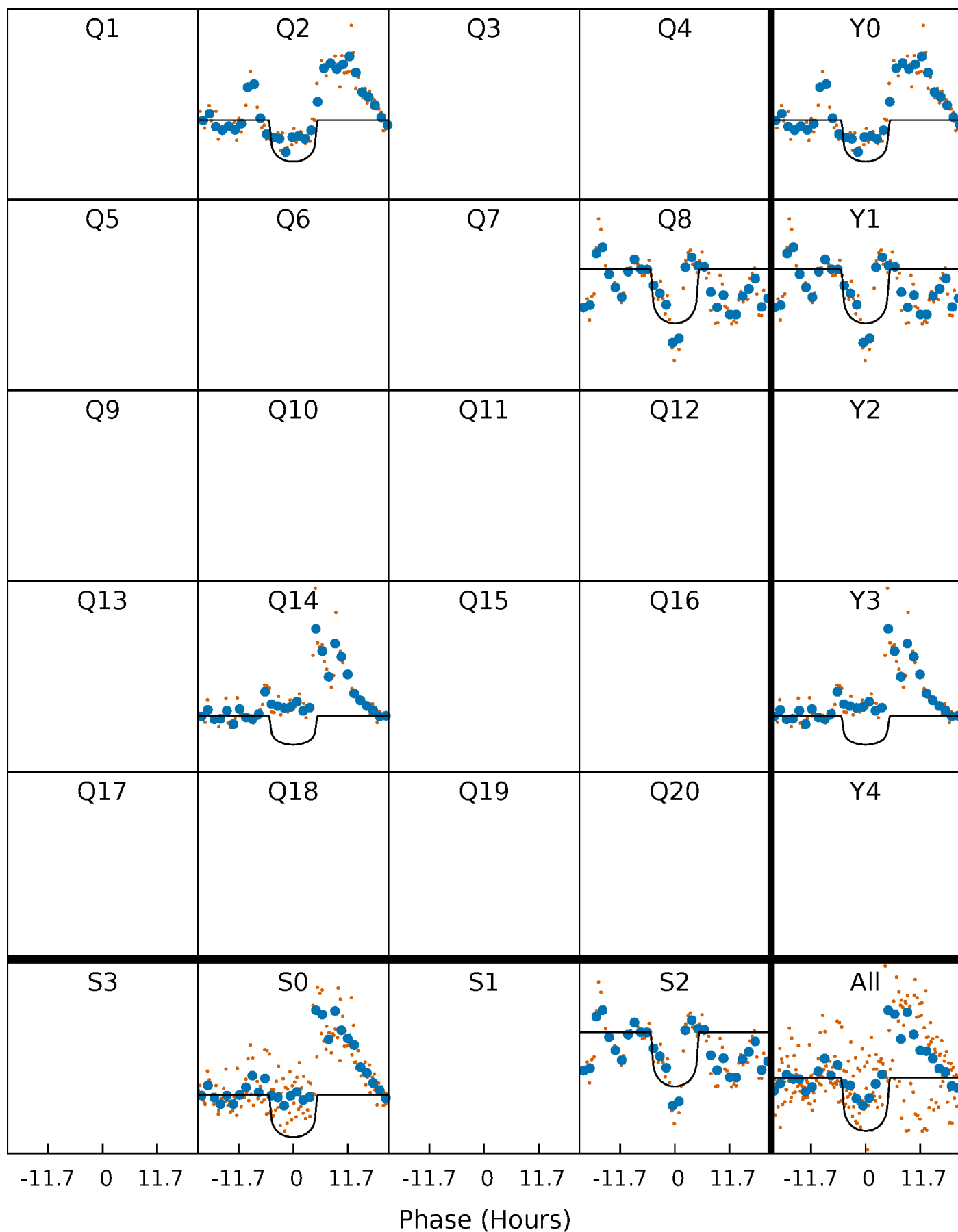
PDC Quarter-Phased Transit Curves

TCE 011192887-08 P=530.565159 Days $T_0=216.123346$ (BKJD)



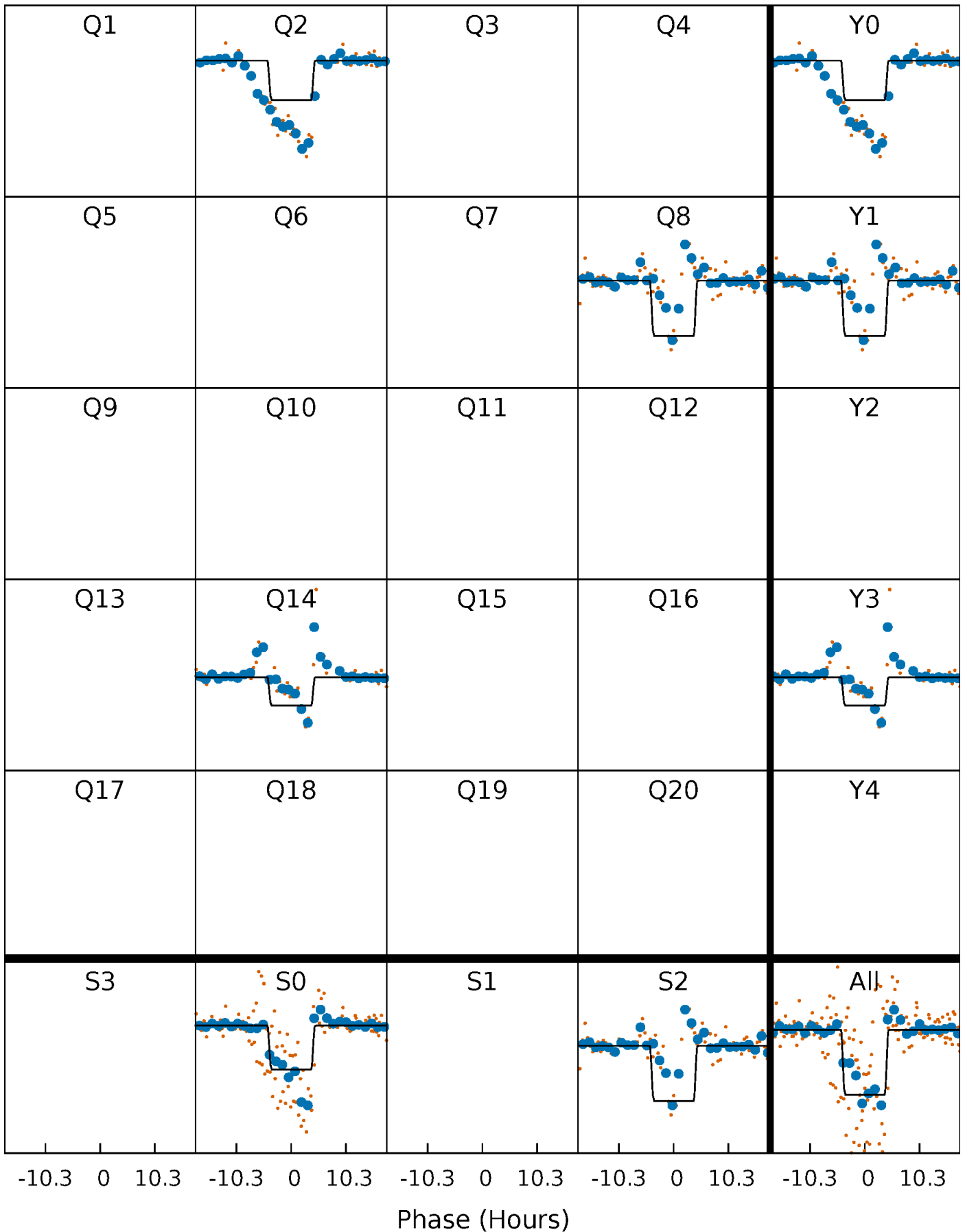
DV Quarter-Phased Transit Curves

TCE 011192887-08 $P=530.565159$ Days $T_0=216.123346$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

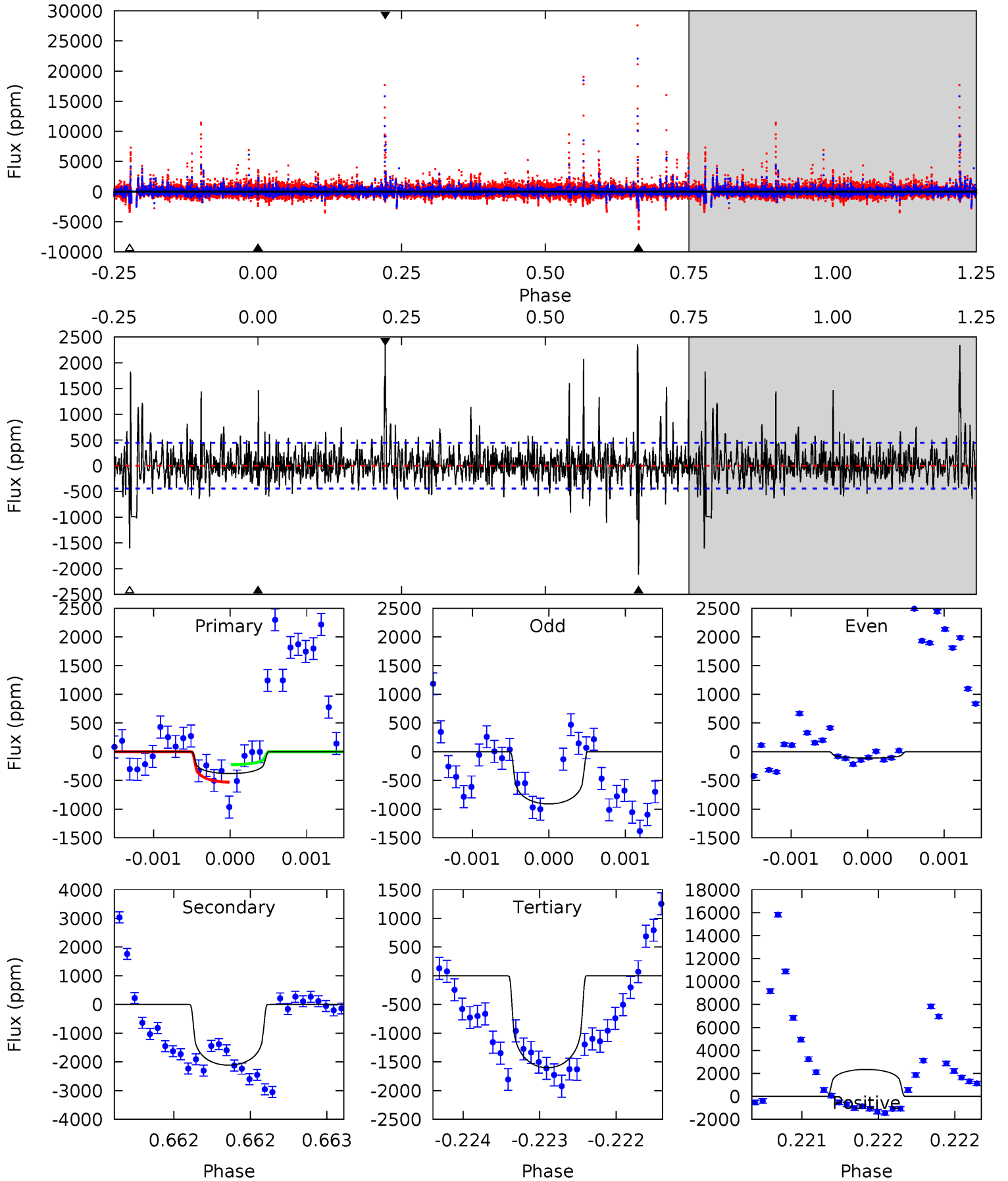
TCE 011192887-08 $P=530.550574$ Days $T_0=216.152879$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-08, P = 530.565159 Days, E = 216.123346 Days

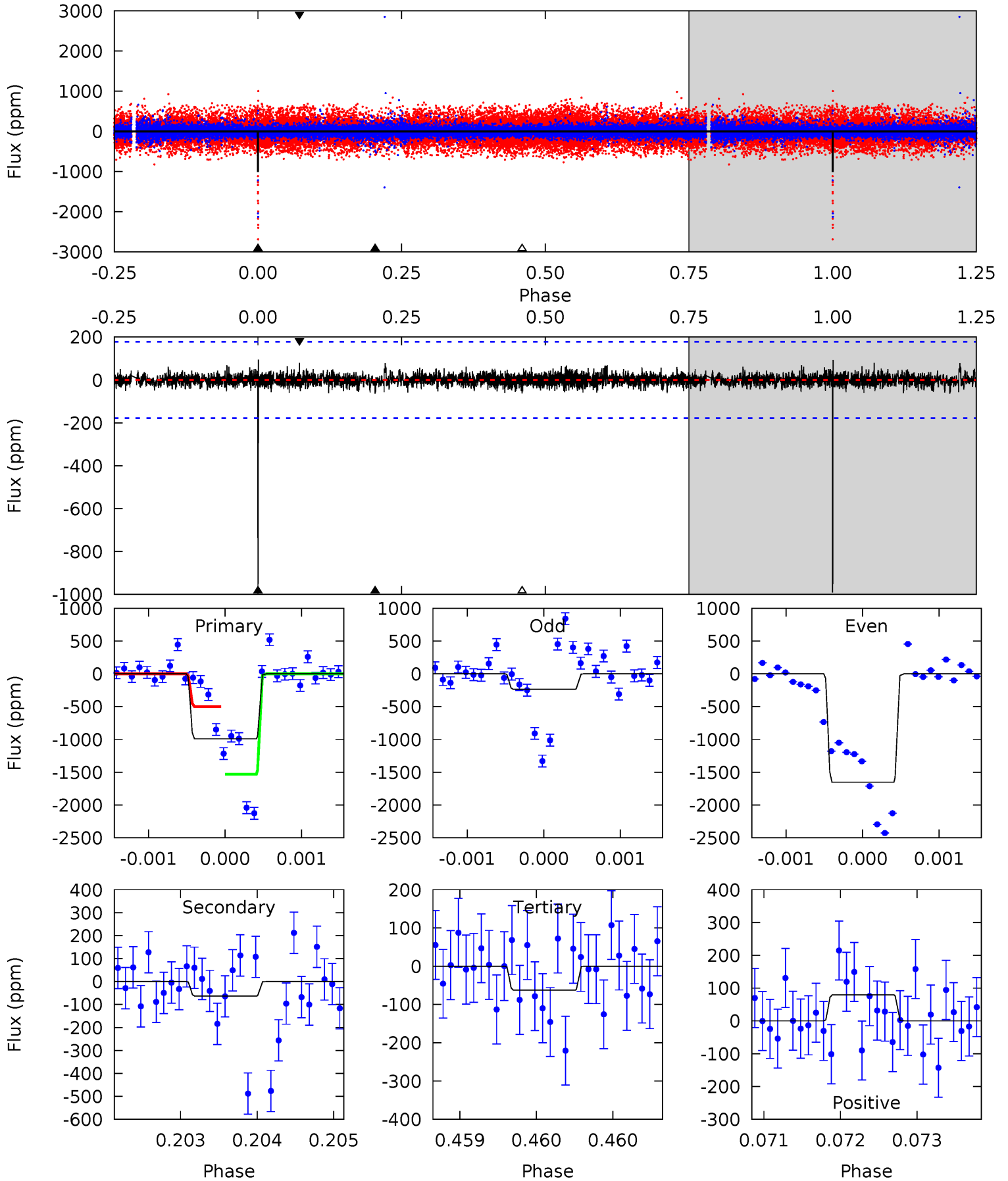
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
4.72	26.2	19.8	29.0	5.48	3.34	3.44	-15.1	-24.3	6.34	-2.85	3.33	0.40	0.53	1.90



Alt Model-Shift Uniqueness Test

011192887-08, P = 530.550574 Days, E = 216.152879 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
30.6	1.95	1.93	2.45	5.51	3.38	0.50	28.7	28.2	0.02	-0.50	25.1	1.33	0.09	0



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-08 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-2114 ± 81	$2.34^{+0.91}_{-0.86}$	239^{+9}_{-9}	5863^{+1580}_{-845}	$254866^{+379863}_{-121730}$
Alt.	-63 ± 32	$2.41^{+0.94}_{-0.93}$	239^{+9}_{-9}	3033^{+531}_{-366}	6677^{+13140}_{-4099}

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

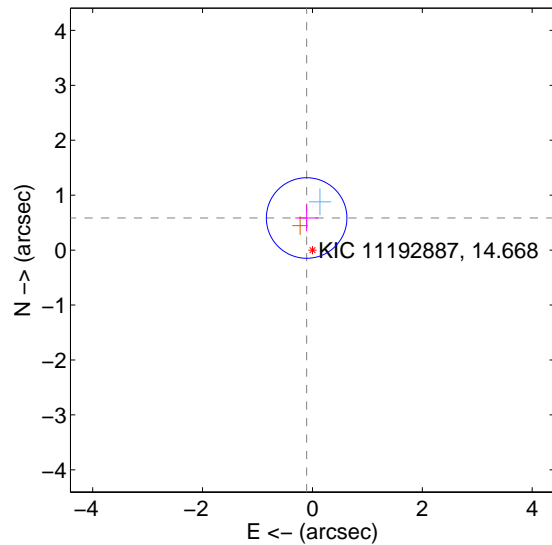
Supplemental centroid analysis for 011192887-08. Kepler magnitude: 14.67. Transit SNR 9.13

There are 1 quarters with good PRF difference image offsets

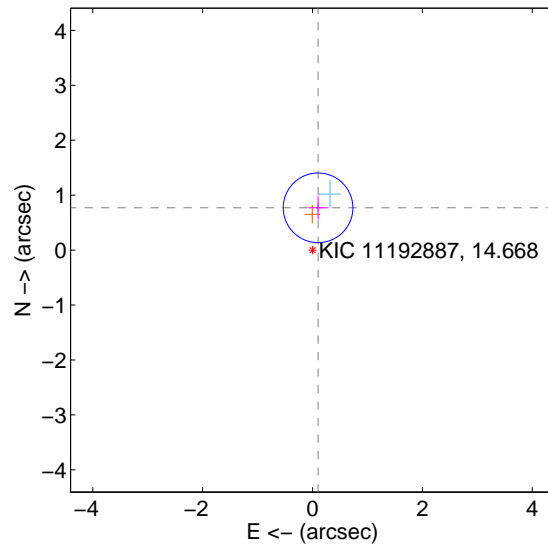
The direct PRF centroid is offset from the target star catalog position by about 0.30 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.594 ± 0.244	2.43	0.106 ± 0.209	0.584 ± 0.245
PRF-fit source offset from KIC position	0.776 ± 0.211	3.67	-0.101 ± 0.189	0.770 ± 0.212
photometric centroid source offset	1.31 ± 0.79	1.67	0.70 ± 0.44	1.11 ± 0.89

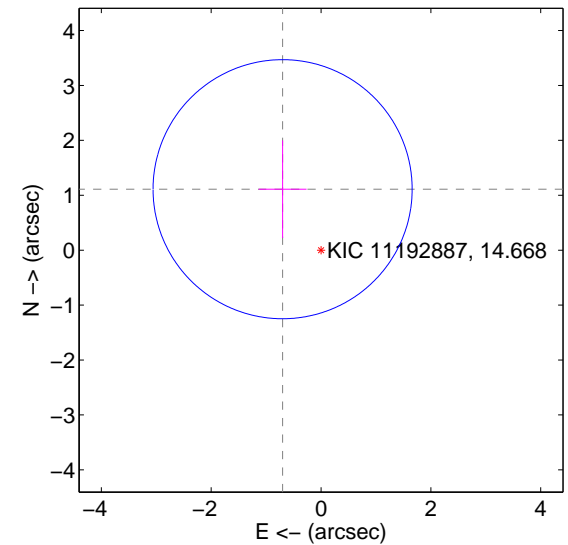
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position



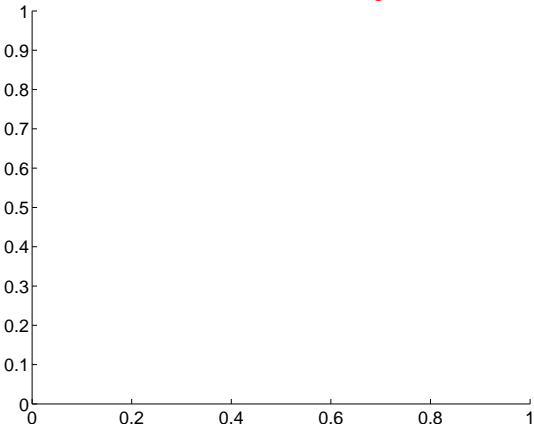
offset from photometric centroids



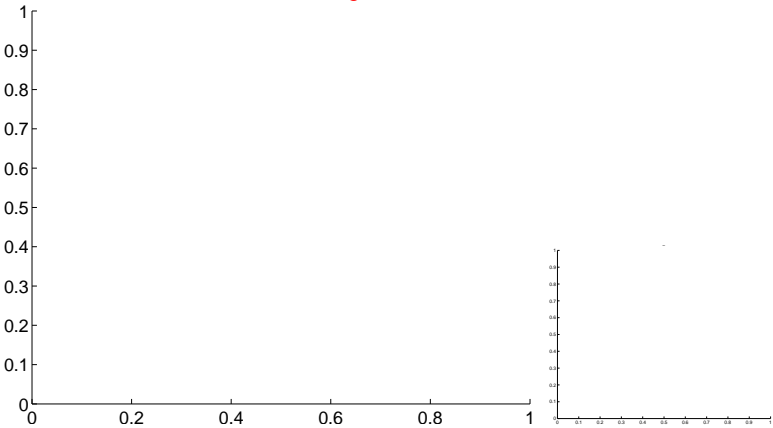
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

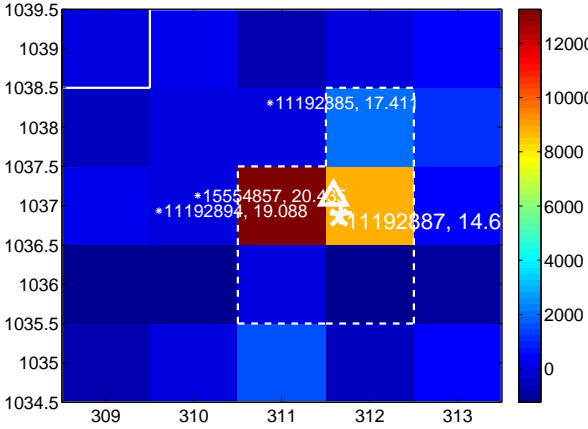
Q1 no difference image



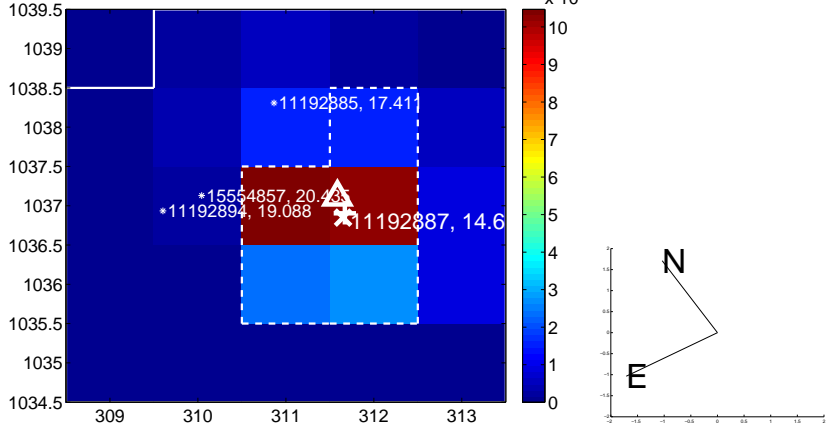
Q1 no OOT image



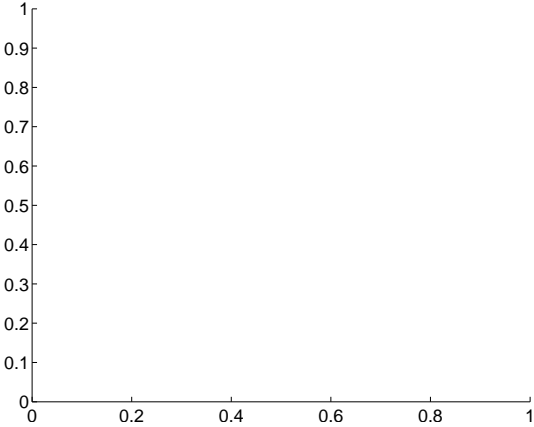
Q2 difference image



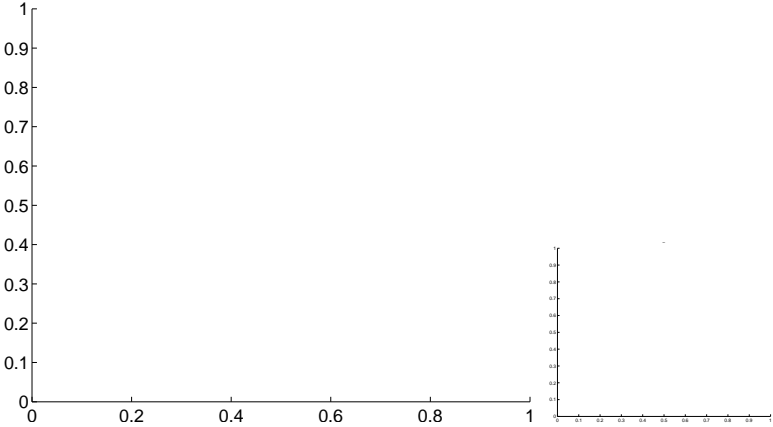
Q2 OOT image



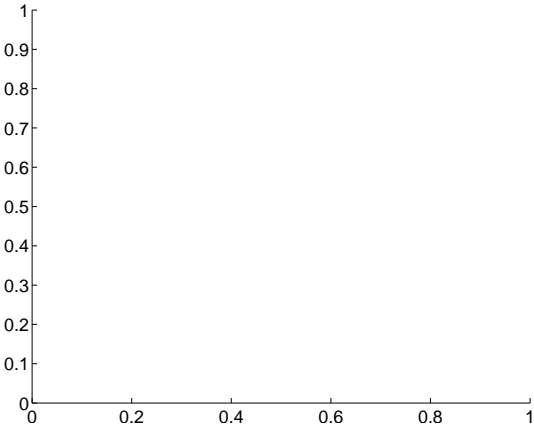
Q3 no difference image



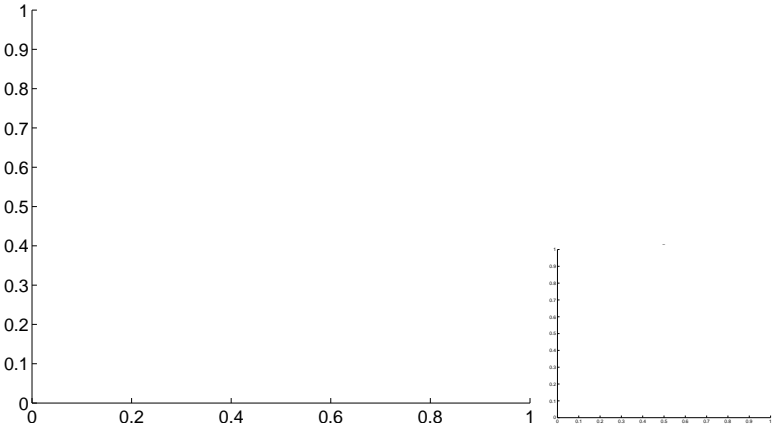
Q3 no OOT image



Q4 no difference image

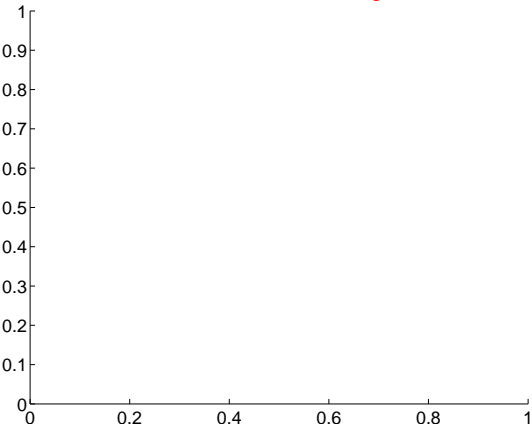


Q4 no OOT image

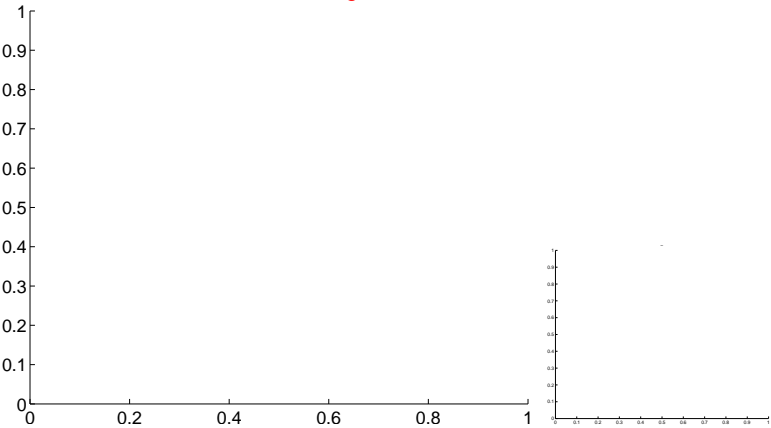


white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

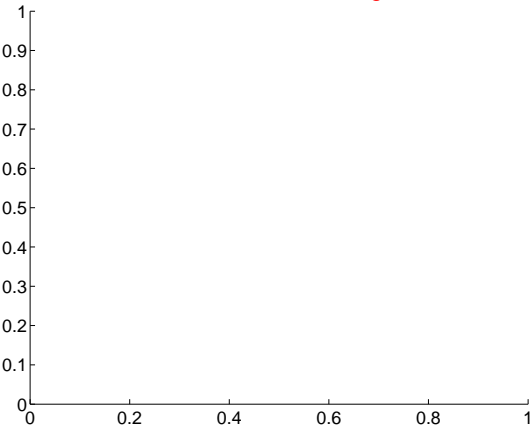
Q5 no difference image



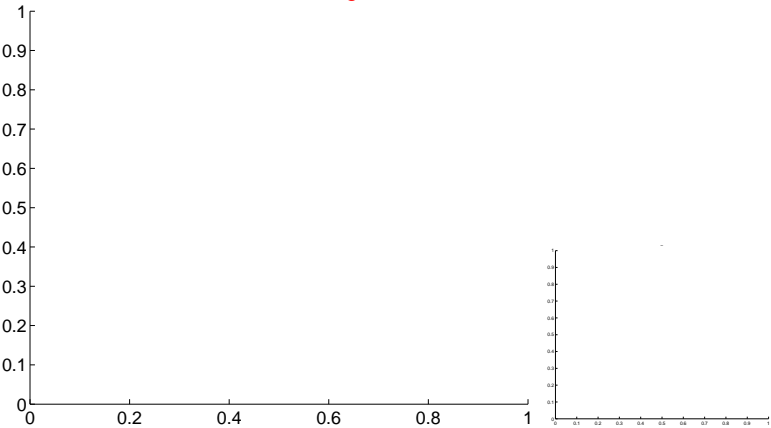
Q5 no OOT image



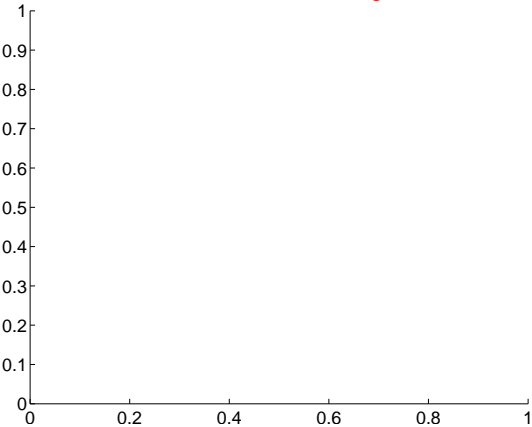
Q6 no difference image



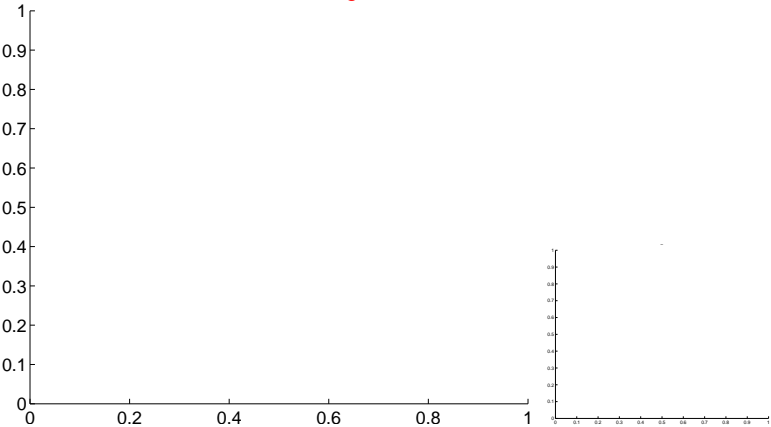
Q6 no OOT image



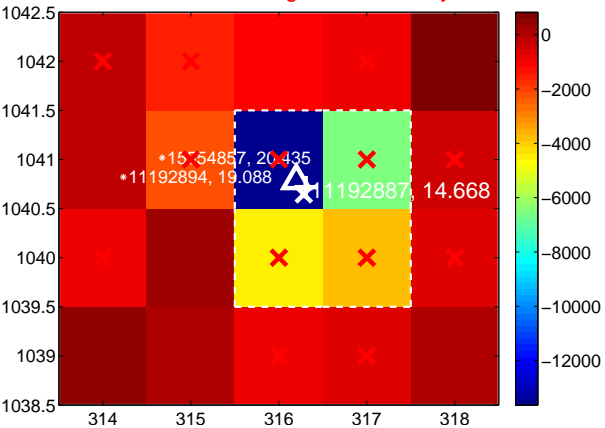
Q7 no difference image



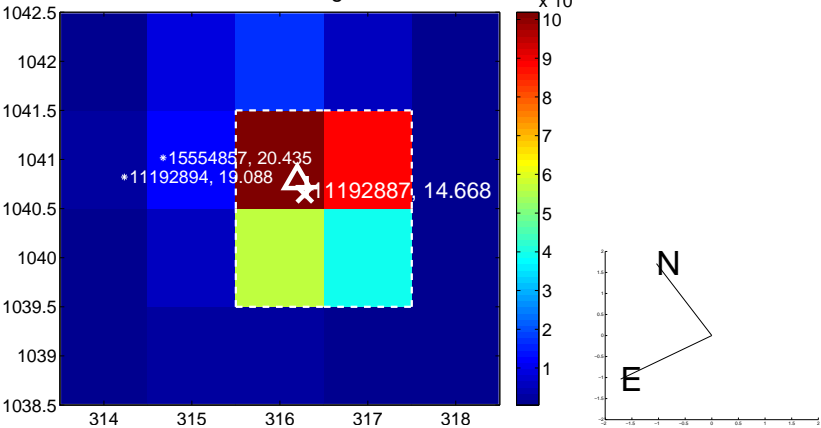
Q7 no OOT image



Q8 difference image. Poor Quality



Q8 OOT image

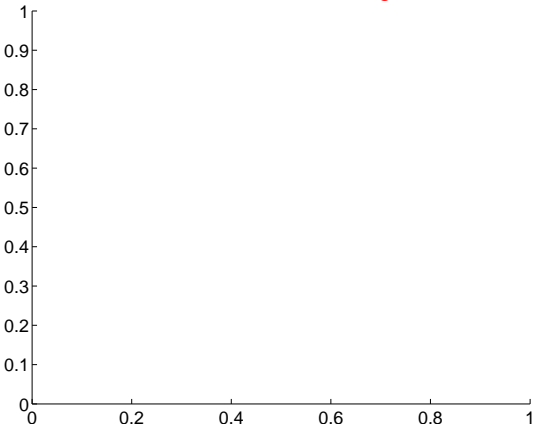


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

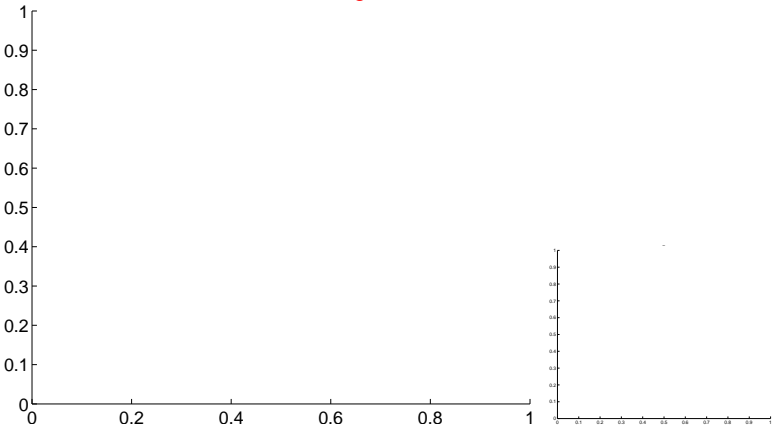


white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

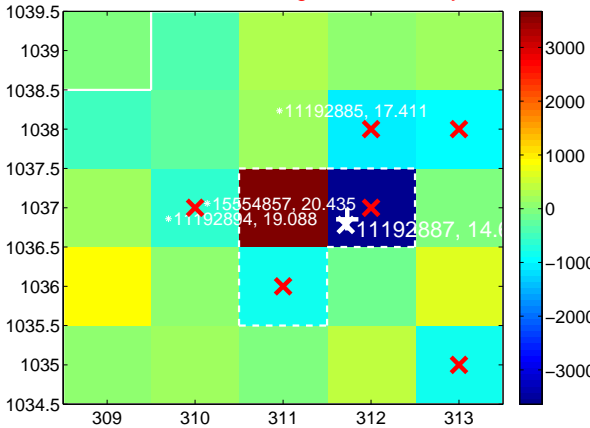
Q13 no difference image



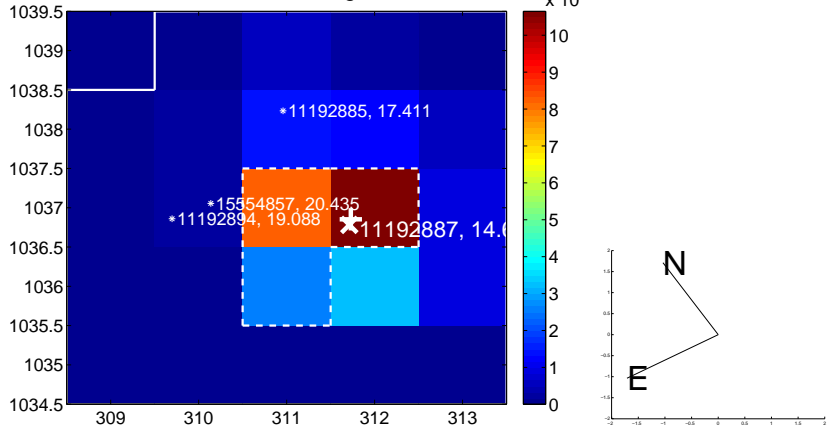
Q13 no OOT image



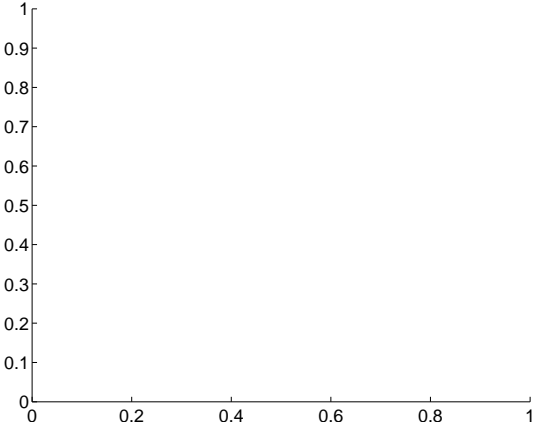
Q14 difference image. Poor Quality



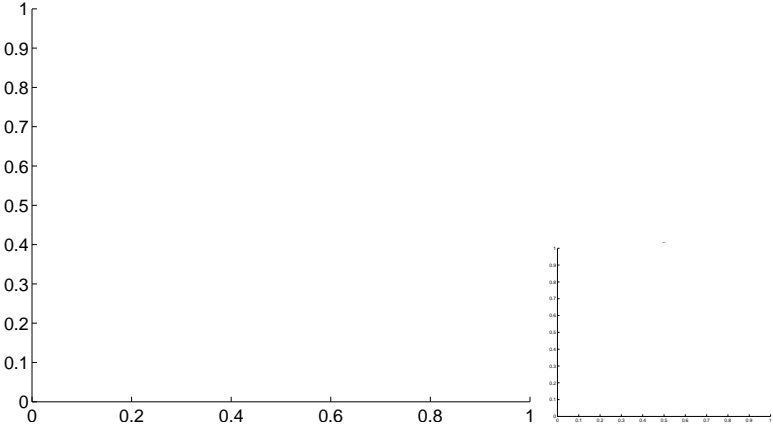
Q14 OOT image



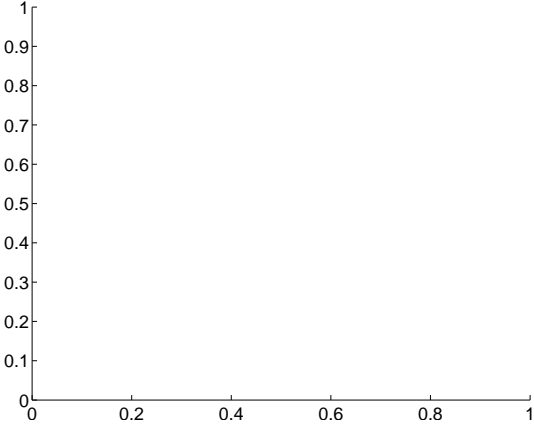
Q15 no difference image



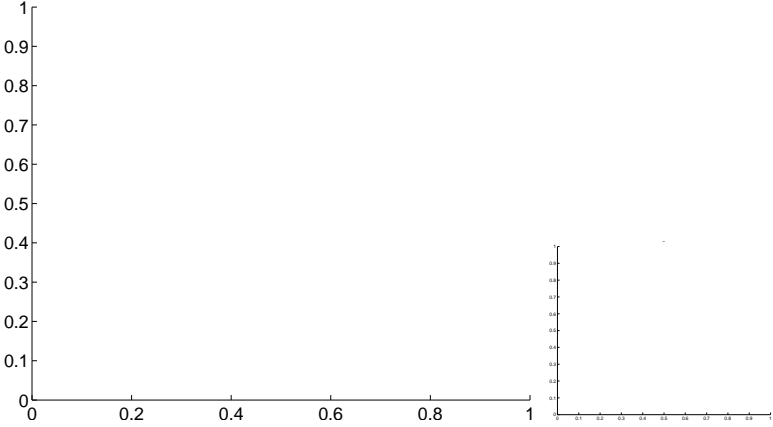
Q15 no OOT image



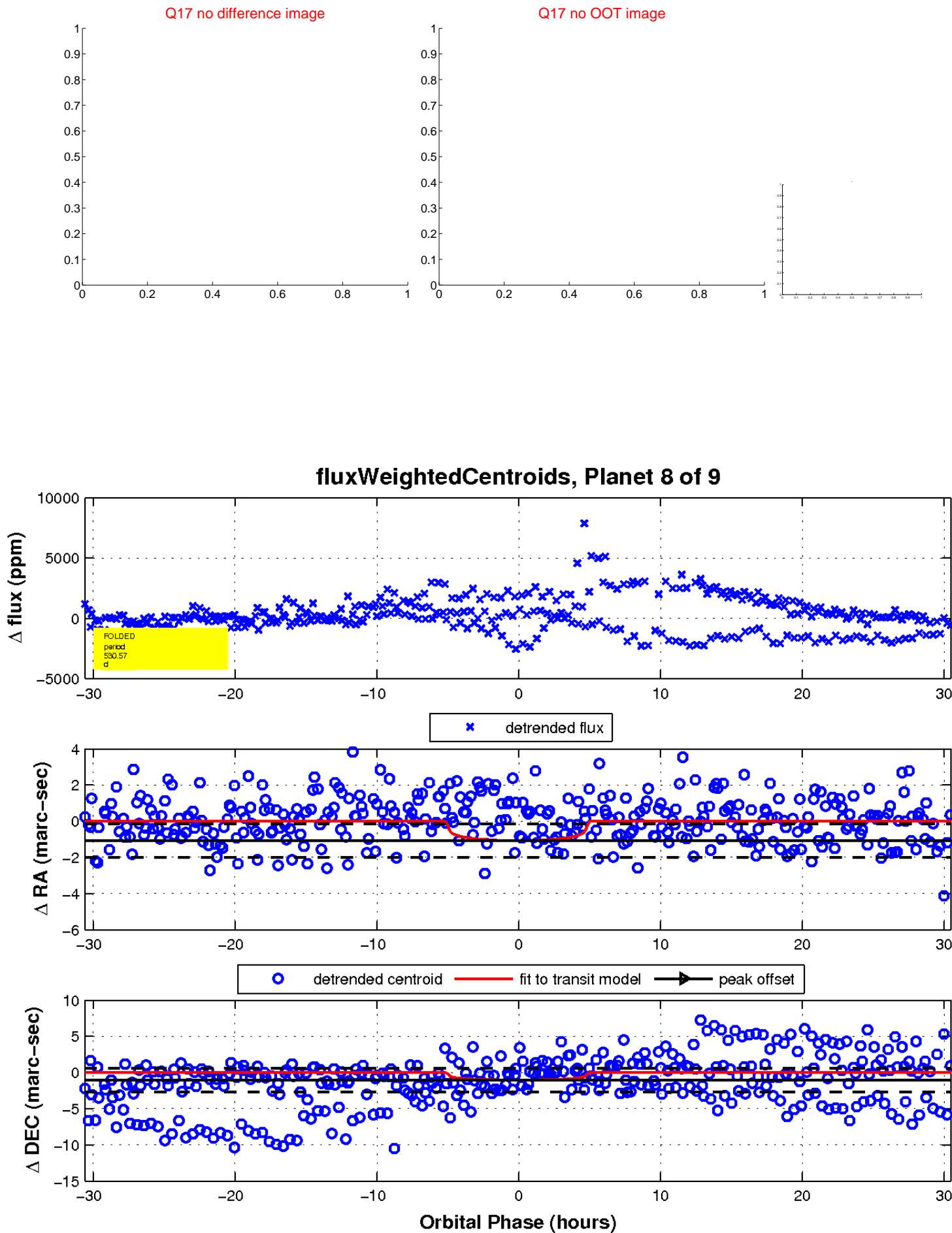
Q16 no difference image



Q16 no OOT image

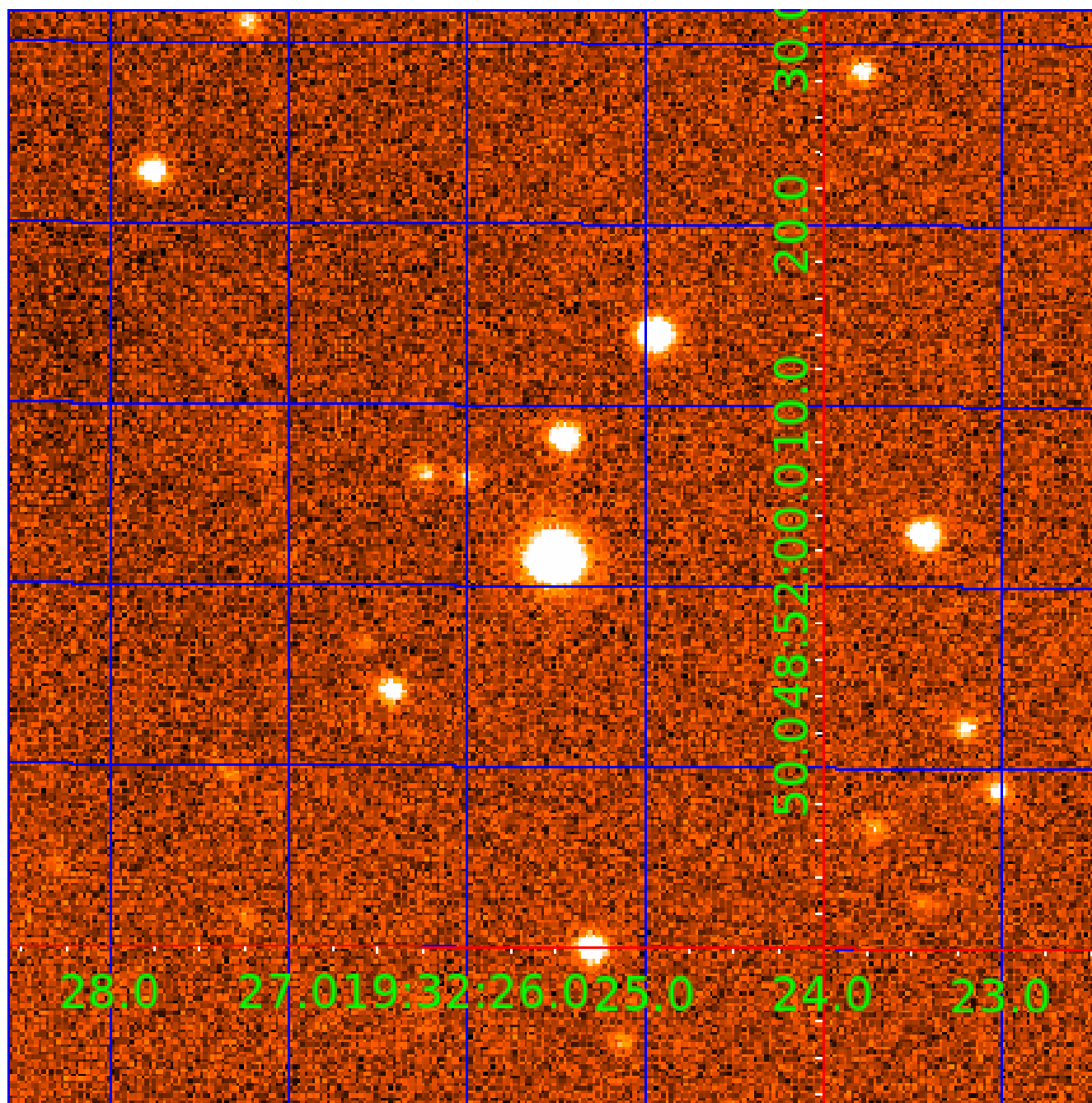


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination



KIC 011192887

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})
011192887-01	OBS	No	677.828129	161.720430	1504.9	12.605	17.3	8.4	0.61	5180	3.01	0.15
011192887-02	OBS	No	540.940196	466.119222	969.9	6.068	16.5	6.7	0.61	5180	2.15	0.20
011192887-03	OBS	No	388.489200	398.725778	1243.6	6.470	15.2	7.7	0.61	5180	2.28	0.31
011192887-04	OBS	No	488.215464	249.962415	1200.5	8.910	17.7	7.0	0.61	5180	2.48	0.23
011192887-05	OBS	No	387.272948	489.961774	1375.6	3.384	13.4	11.4	0.61	5180	2.38	0.31
011192887-07	OBS	No	404.261907	336.455507	298.2	4.176	15.3	2.3	0.61	5180	1.13	0.29
011192887-08	OBS	No	530.565159	216.123346	1412.7	10.203	11.9	9.1	0.61	5180	2.31	0.20
011192887-09	OBS	No	380.459265	379.697014	1534.4	3.500	15.4	-1.0	0.61	5180	2.38	0.32

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
011192887-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—MOD_POS_ALT—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS
011192887-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_SKYE_ZUMA—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS
011192887-04	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_MARSHALL—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV
011192887-07	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES_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—HALO_GHOST
011192887-08	OBS	FP	0.00	1	0	1	0	INDIV_TRANS_CHASES—LPP_DV—ALL_TRANS_CHASES—MOD_NONUNIQ_DV—MOD_TER_DV—MOD_POS_DV—INCONSISTENT_TRANS—CENT_FEW_DIFFS—HALO_GHOST
011192887-09	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_CHASES_MARSHALL_ZUMA—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_NOFITS

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

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

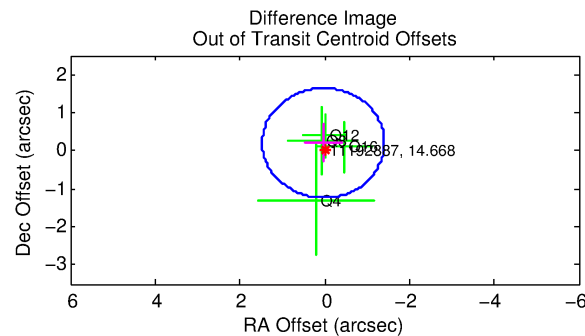
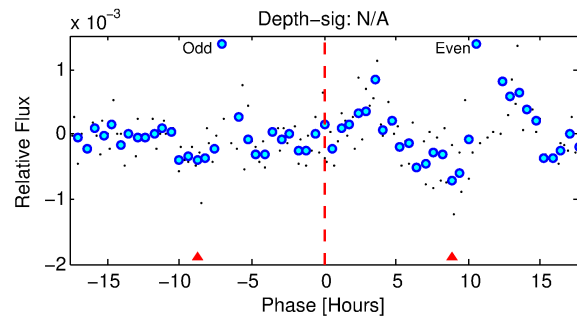
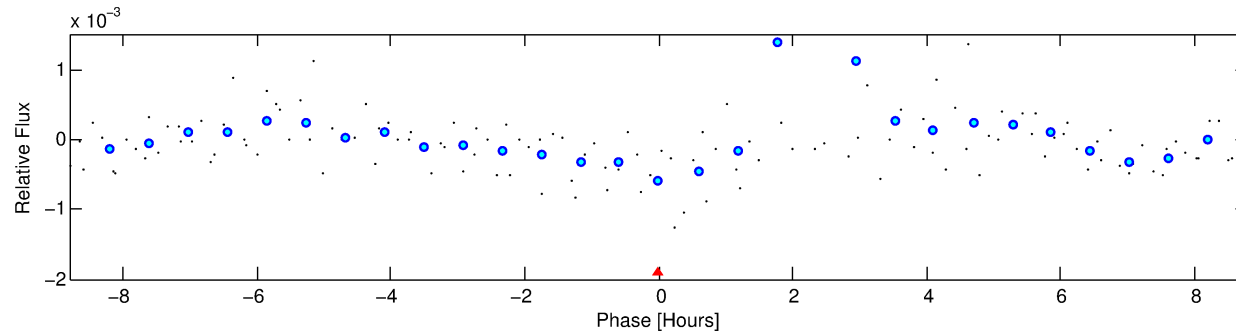
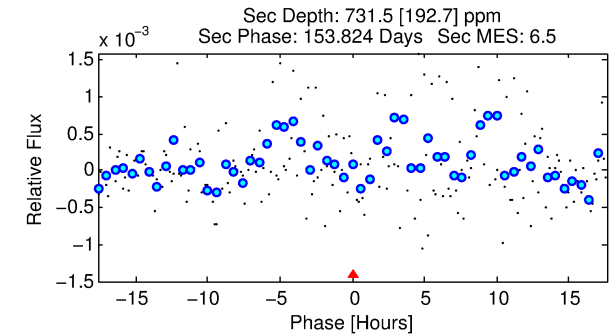
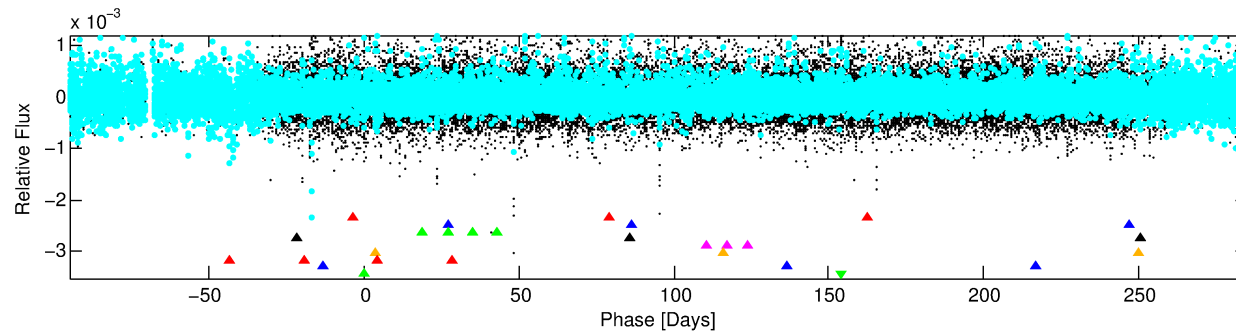
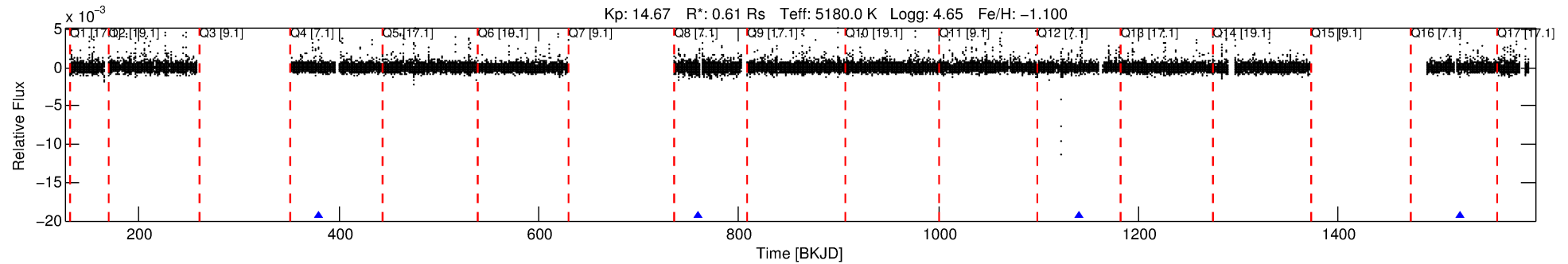
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 011192887-09

No Significant Match Found

DV One-Page Summary

KIC: 11192887 Candidate: 9 of 9 Period: 380.459 d



TPS TCE Results:

Period = 380.45926 d
Epoch = 379.6970 BKJD

DV fit results are unavailable

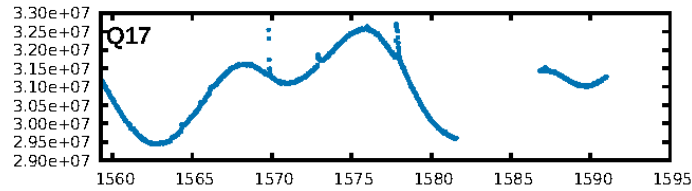
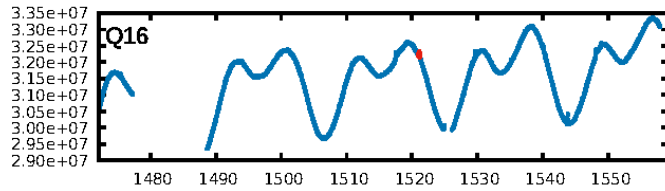
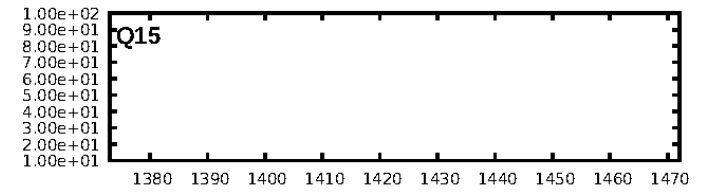
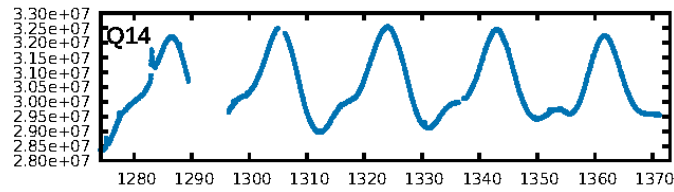
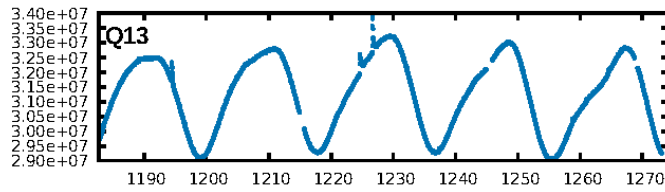
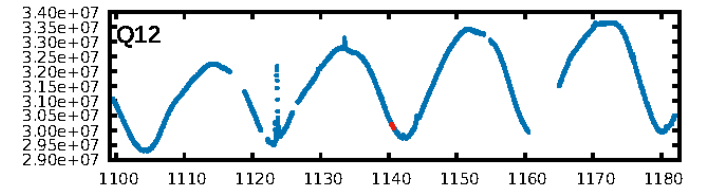
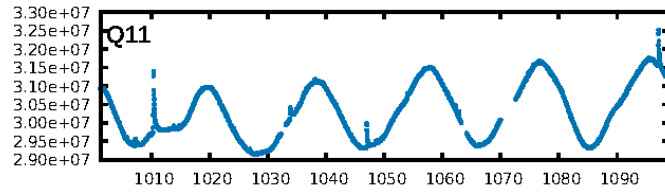
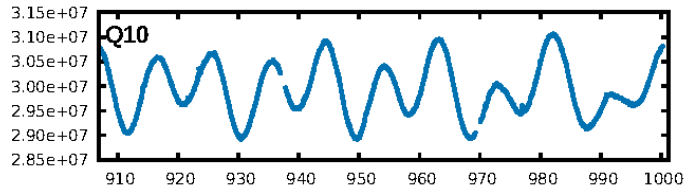
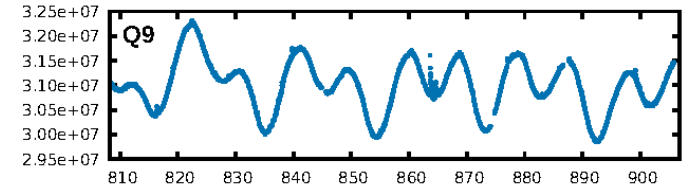
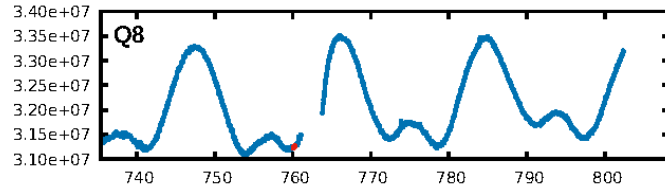
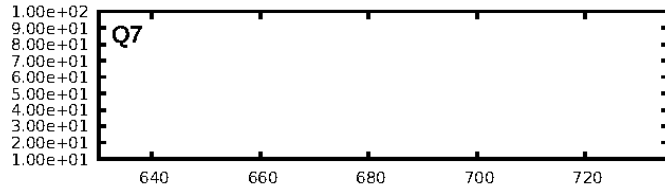
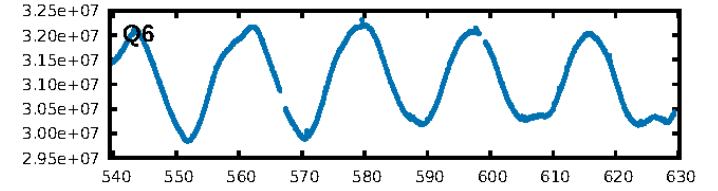
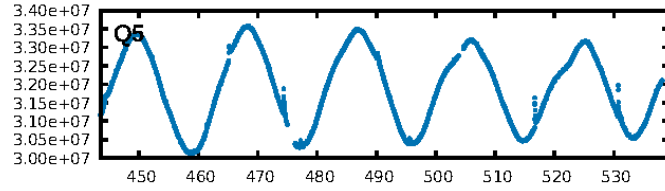
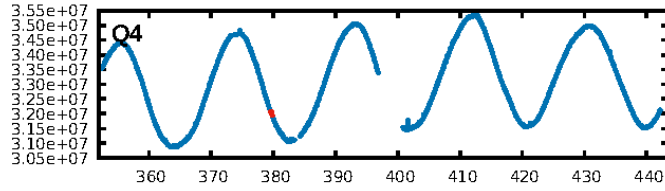
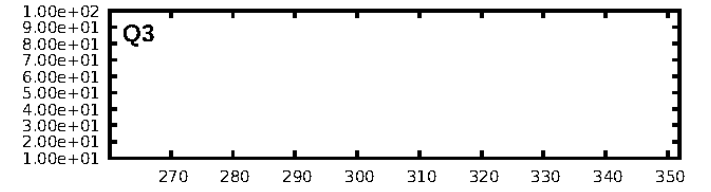
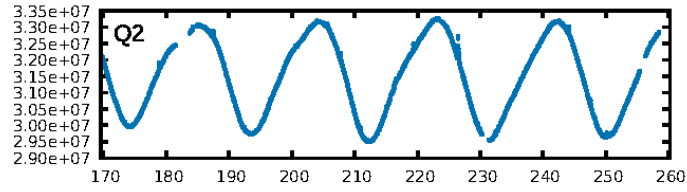
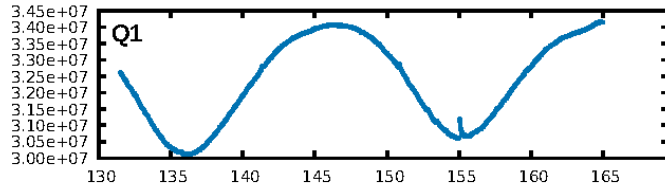
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [33.59σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: N/A
RollingBand-fgt: 1.00 [4/4]
GhostDiagnostic-chr: 4.444
Centroid-sig: 8.2%
Centroid-so: 1.432 arcsec [1.67σ]
OotOffset-rm: 0.205 arcsec [0.43σ]
KicOffset-rm: 0.302 arcsec [0.64σ]
OotOffset-st: 0/0/4/0 [4]
KicOffset-st: 0/0/4/0 [4]
DiffImageQuality-fgm: 0.75 [3/4]
DiffImageOverlap-fno: 1.00 [4/4]

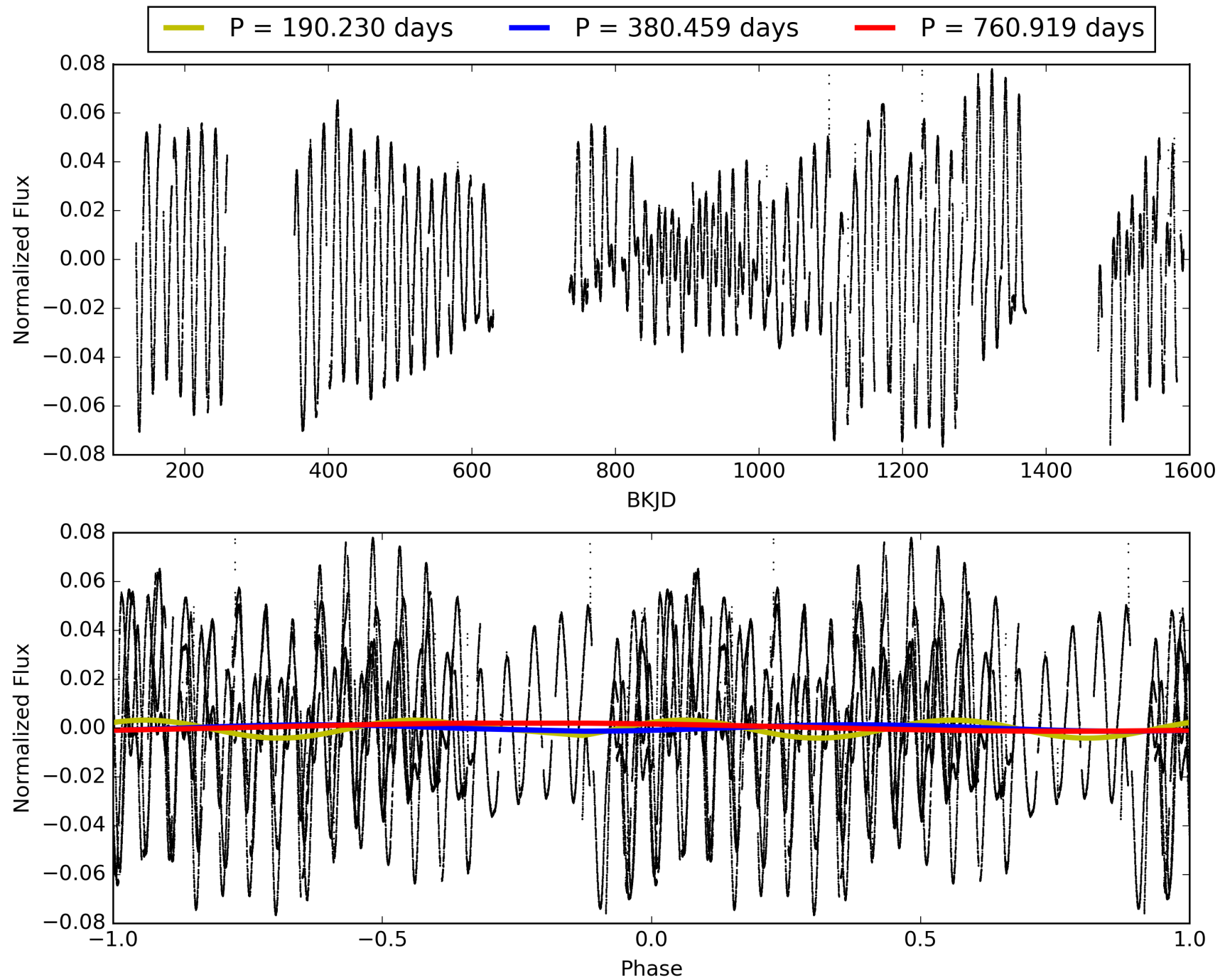
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 05:43:37 Z

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

TCE 011192887-09, PDC Light Curves

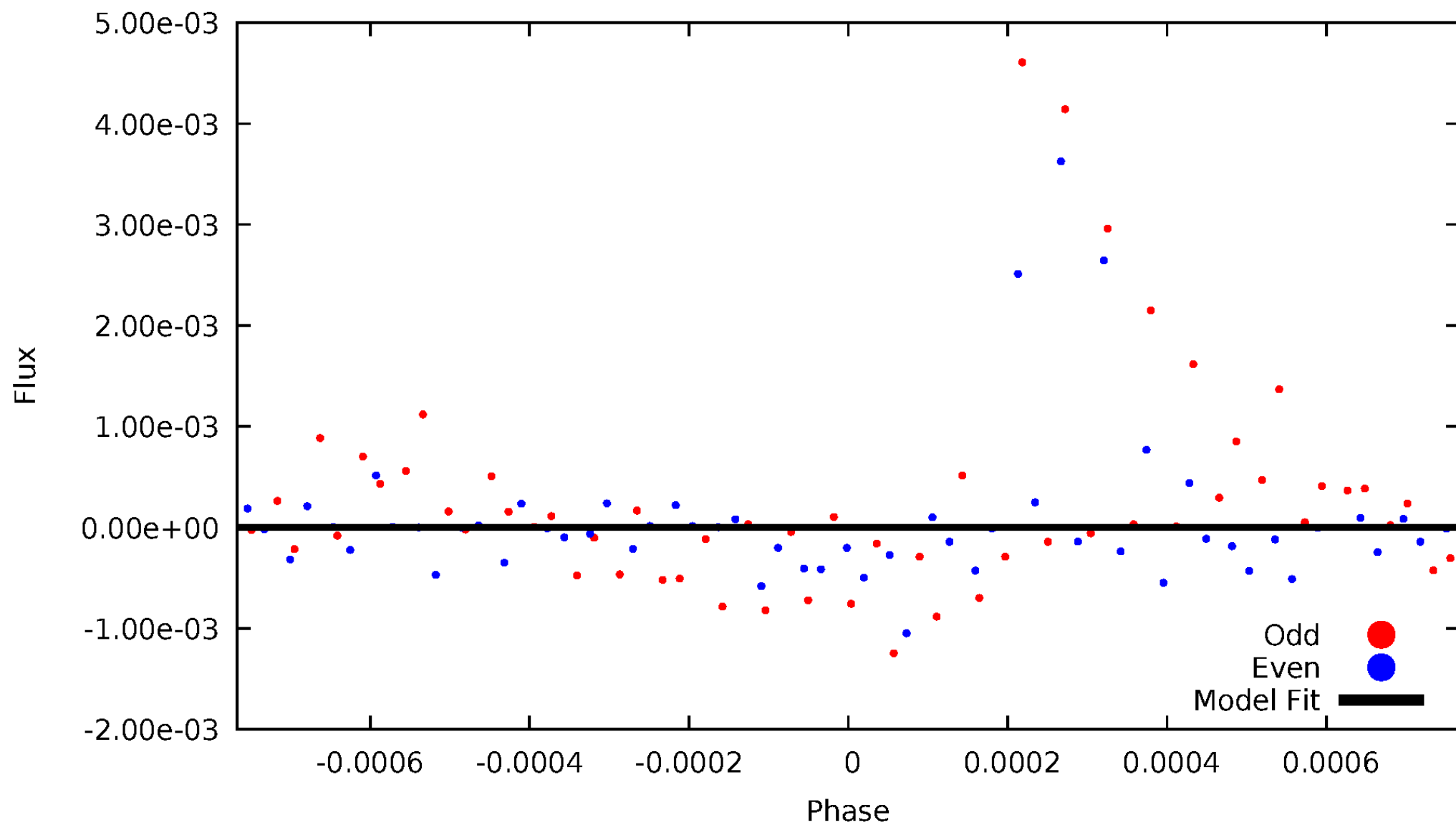


TCE 011192887-09



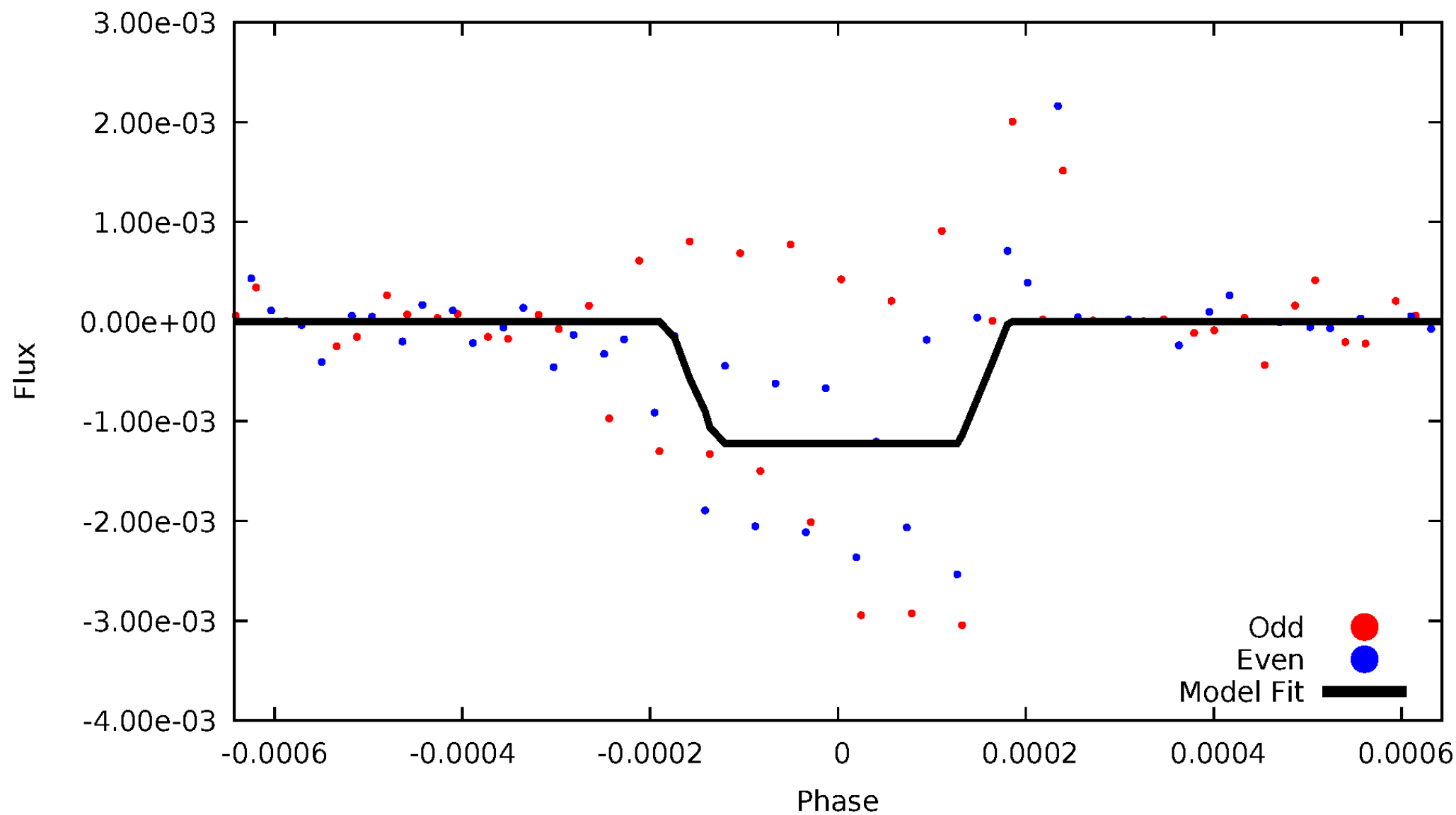
DV Odd/Even

TCE 011192887-09

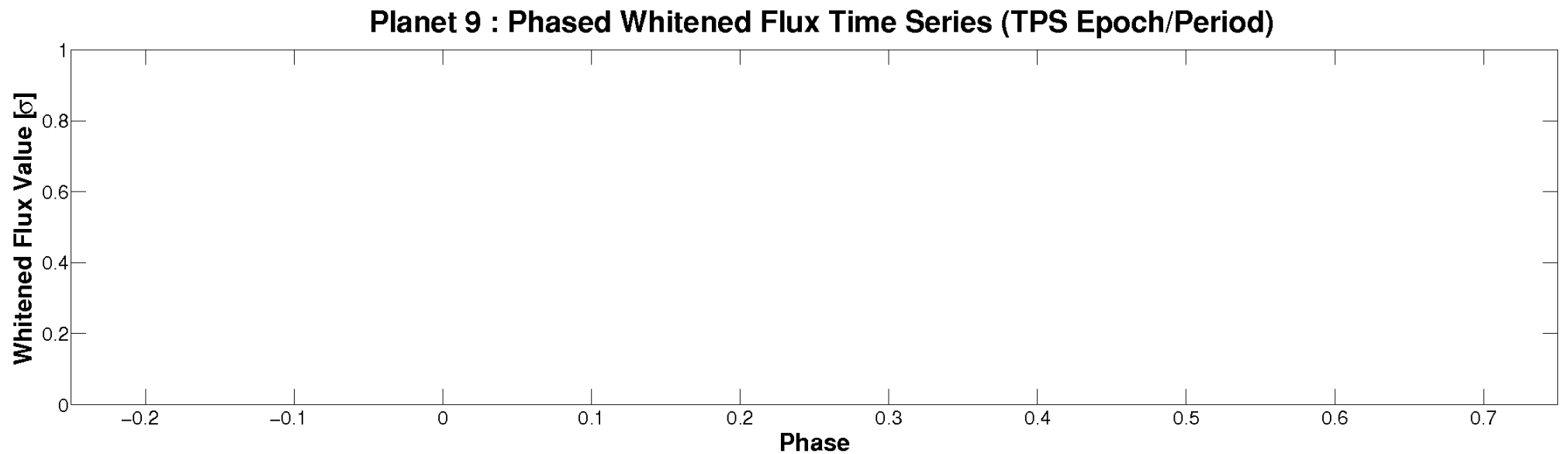
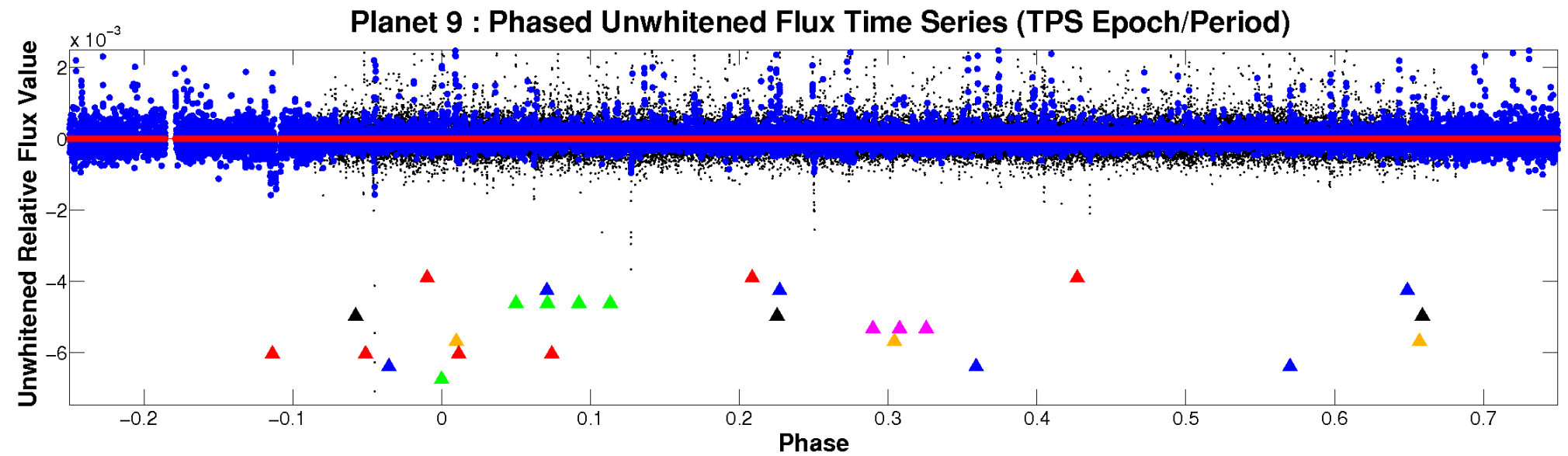


ALT Odd/Even

TCE 011192887-09

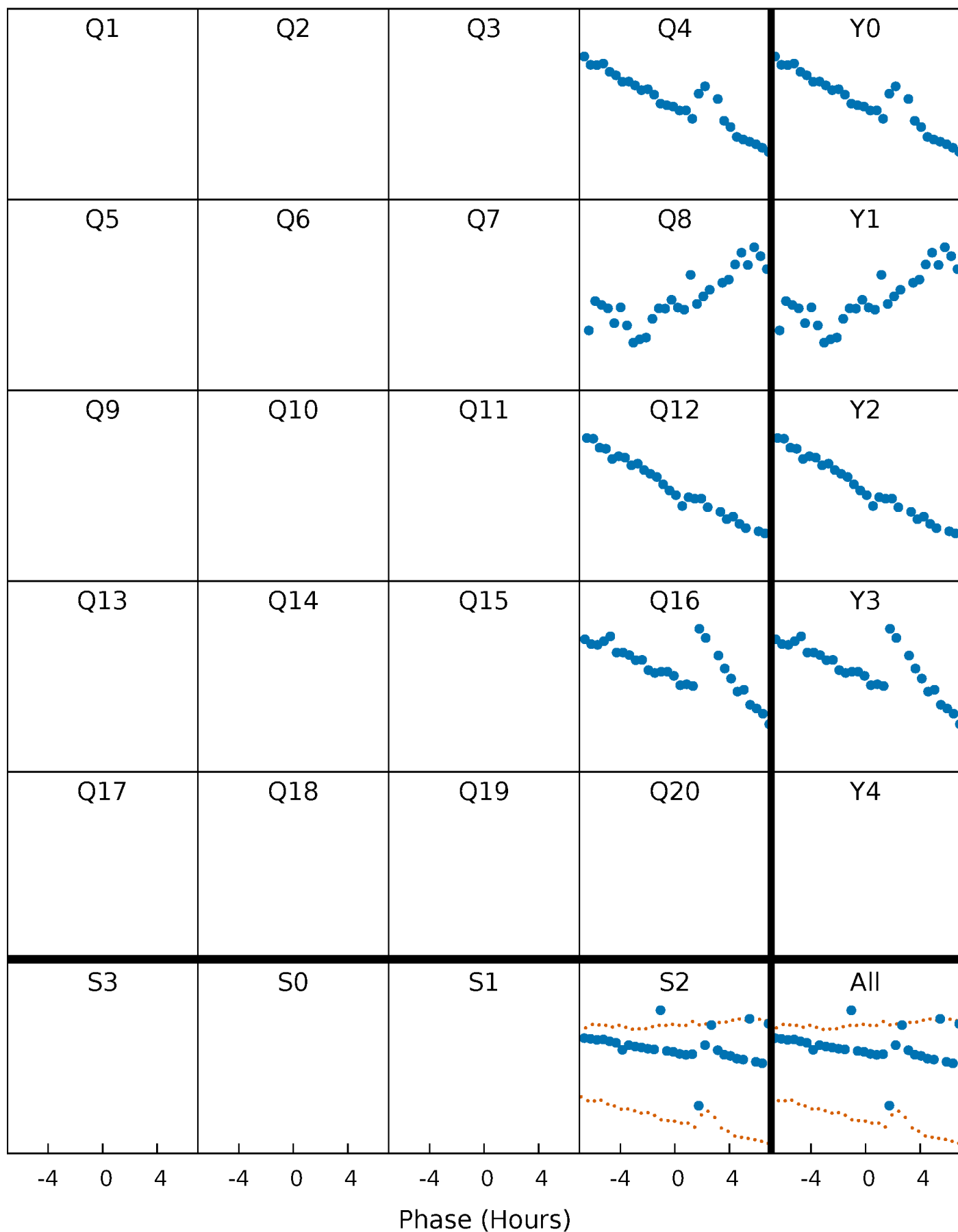


Non-Whitened Vs. Whitened Light Curve



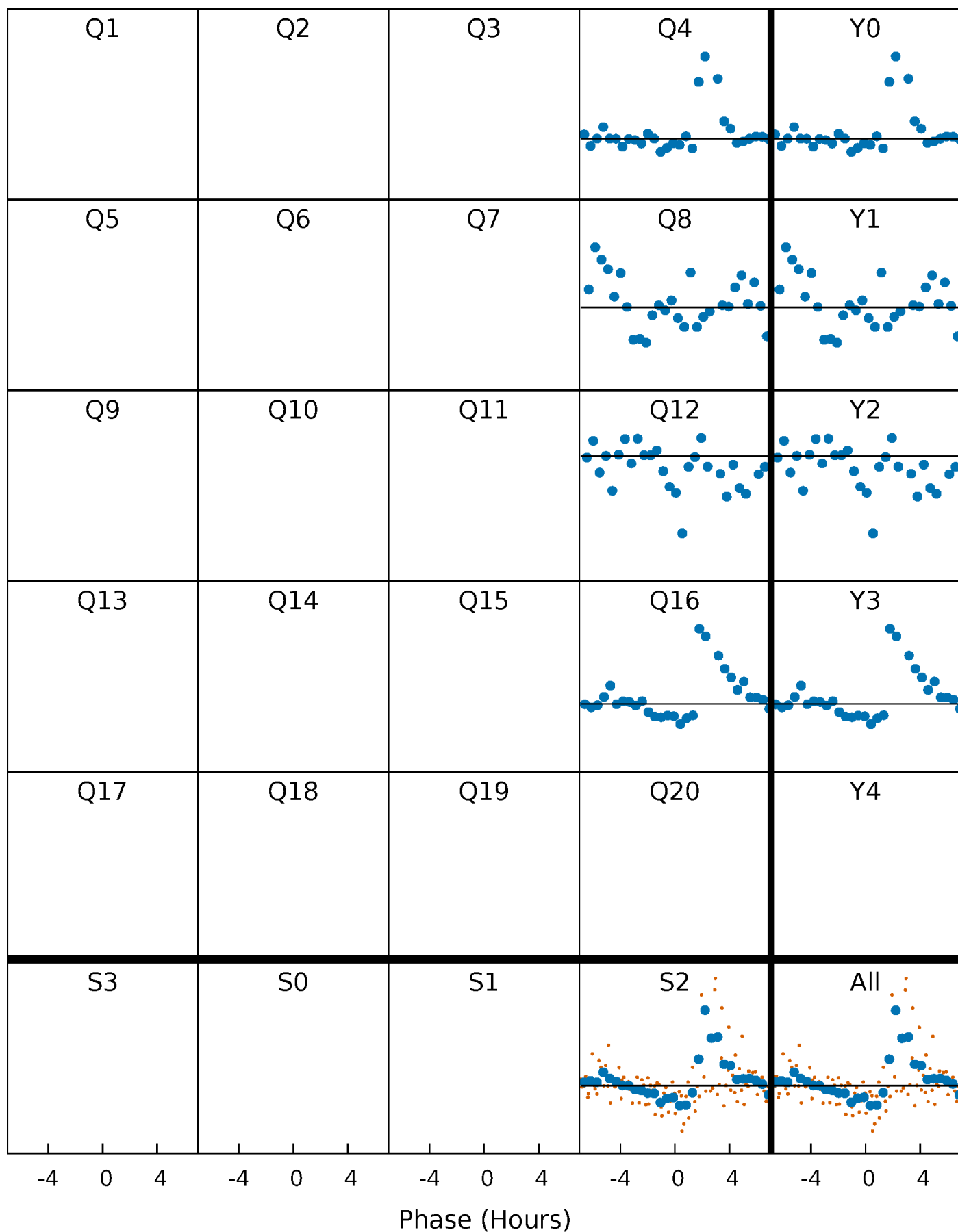
PDC Quarter-Phased Transit Curves

TCE 011192887-09 $P=380.459265$ Days $T_0=379.697014$ (BKJD)



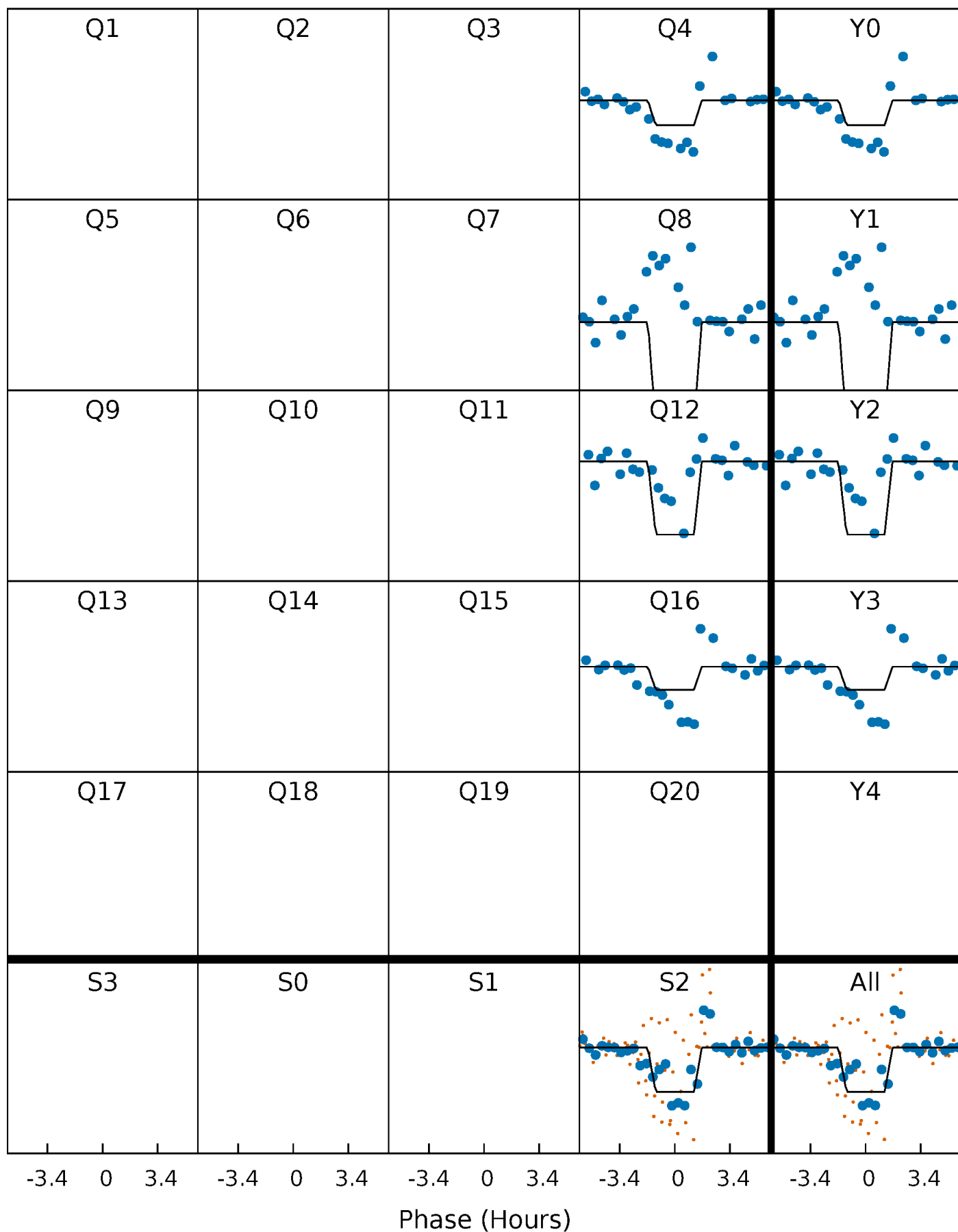
DV Quarter-Phased Transit Curves

TCE 011192887-09 $P=380.459265$ Days $T_0=379.697014$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

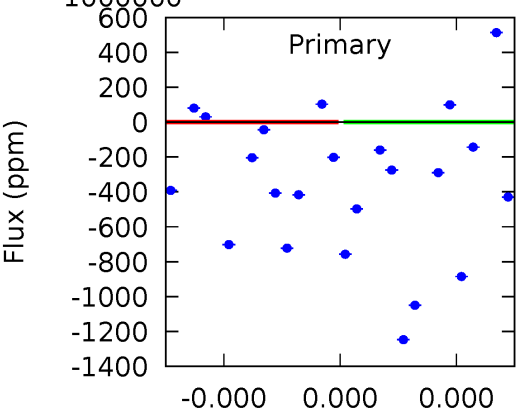
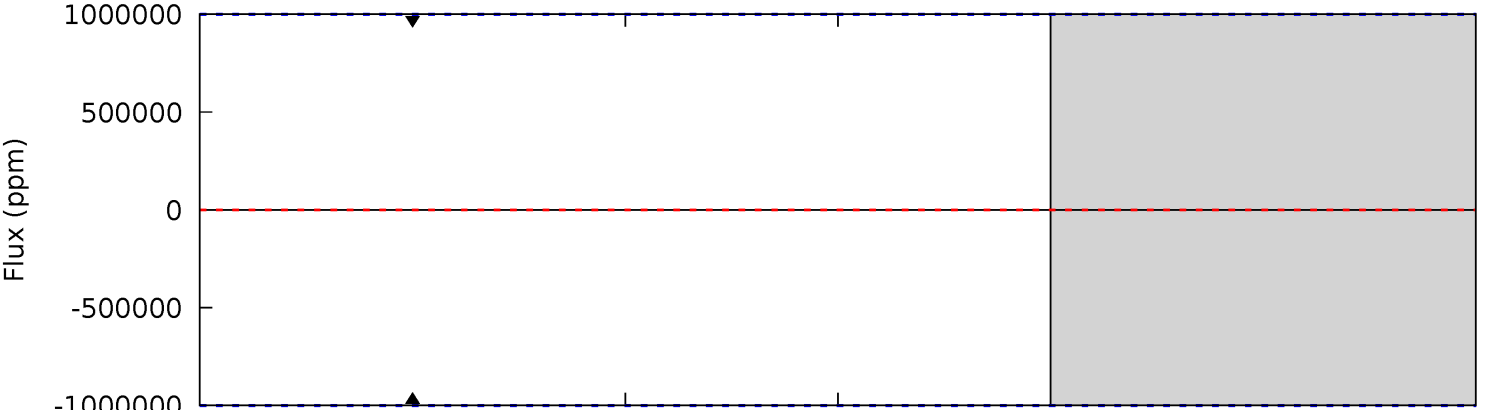
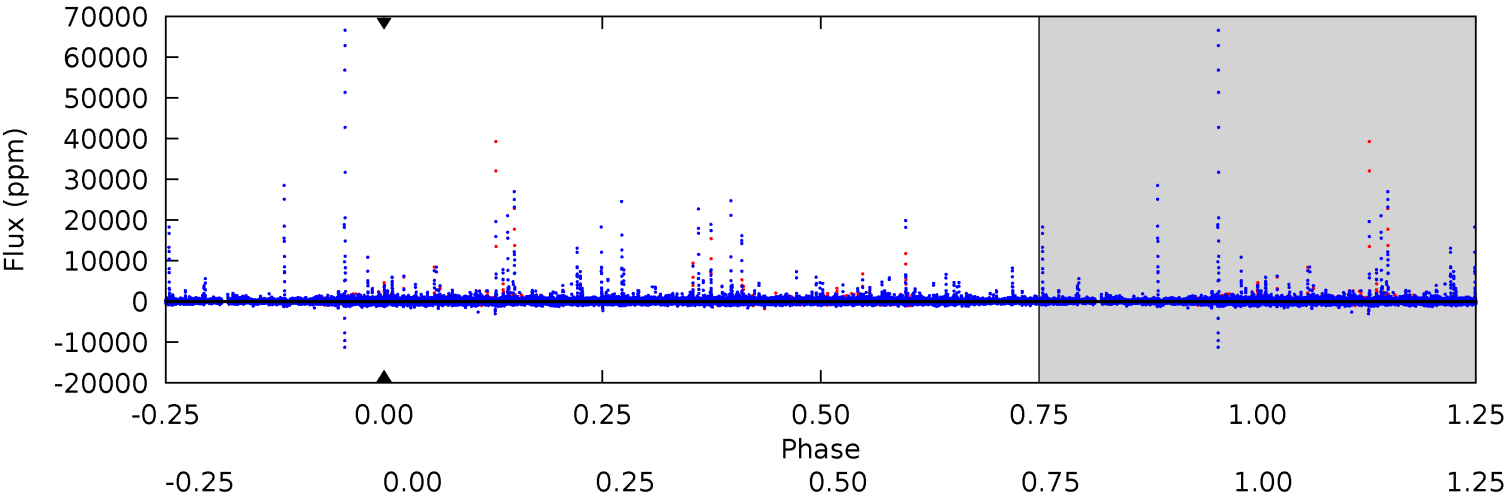
TCE 011192887-09 P=380.459265 Days $T_0=379.709341$ (BKJD)



DV Model-Shift Uniqueness Test

011192887-09, P = 380.459265 Days, E = 379.697014 Days

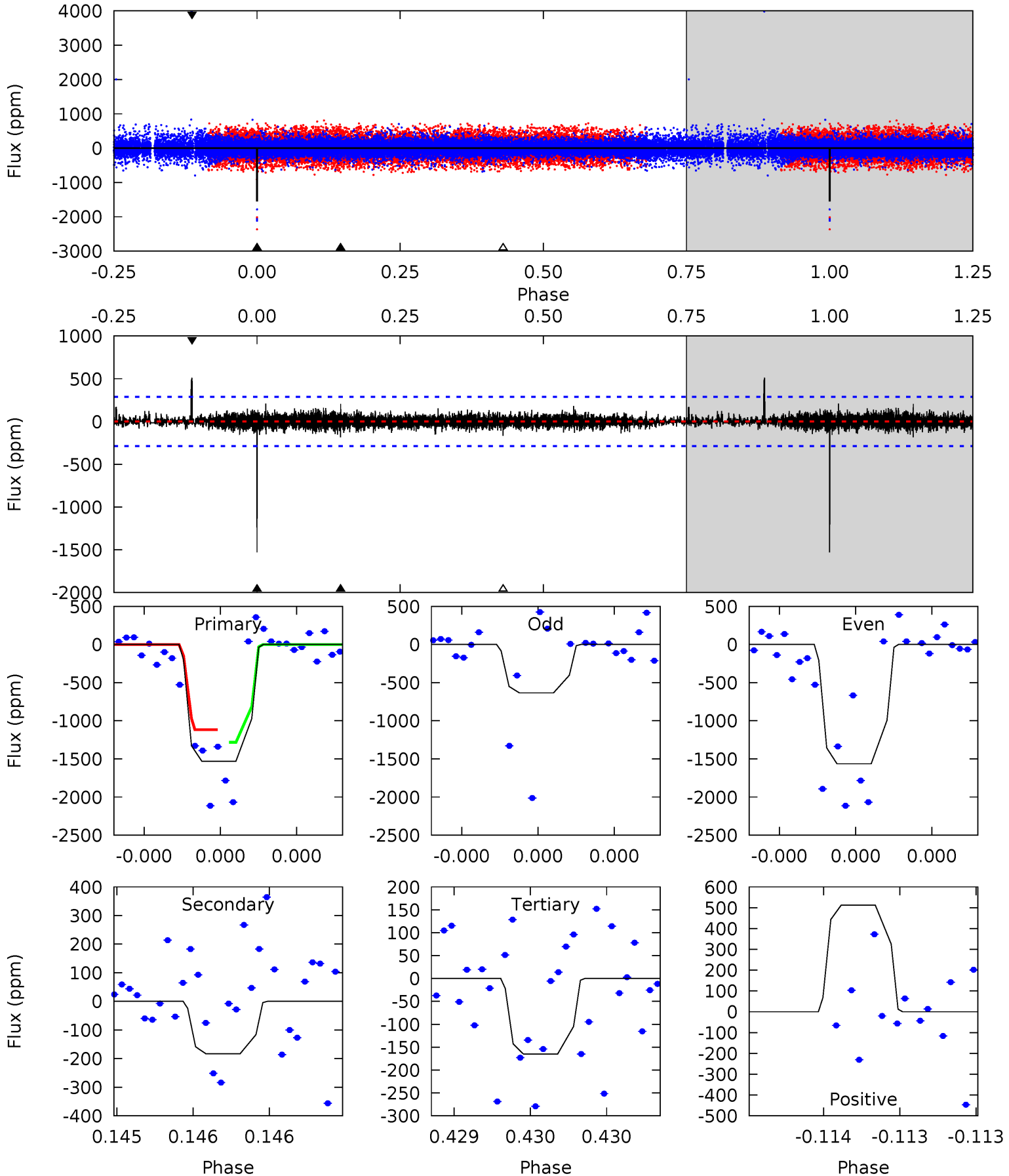
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



Alt Model-Shift Uniqueness Test

011192887-09, P = 380.459265 Days, E = 379.709341 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
29.9	3.58	3.22	10.00	5.63	3.57	0.74	26.6	19.9	0.35	-6.42	11.2	0.81	0.25	1.48



Stellar Parameters For KIC 011192887

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5180^{+156}_{-172}	$4.648^{+0.061}_{-0.039}$	$-1.100^{+0.300}_{-0.300}$	$0.613^{+0.043}_{-0.043}$	$0.608^{+0.049}_{-0.023}$	$3.723^{+0.925}_{-0.512}$
	+3%/-3%	+1%/-1%	+27%/-27%	+7%/-7%	+8%/-4%	+25%/-14%
Source	PHO1	KIC0	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 011192887-09 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	0 ± 1000000	$5.55^{+5.61}_{-3.89}$	266^{+9}_{-10}	3572^{+12587}_{-17485}	$12979^{+3093170}_{-2353592}$
Alt.	-183 ± 51	$5.36^{+5.15}_{-3.65}$	267^{+10}_{-10}	2834^{+1213}_{-465}	2630^{+23635}_{-1987}

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

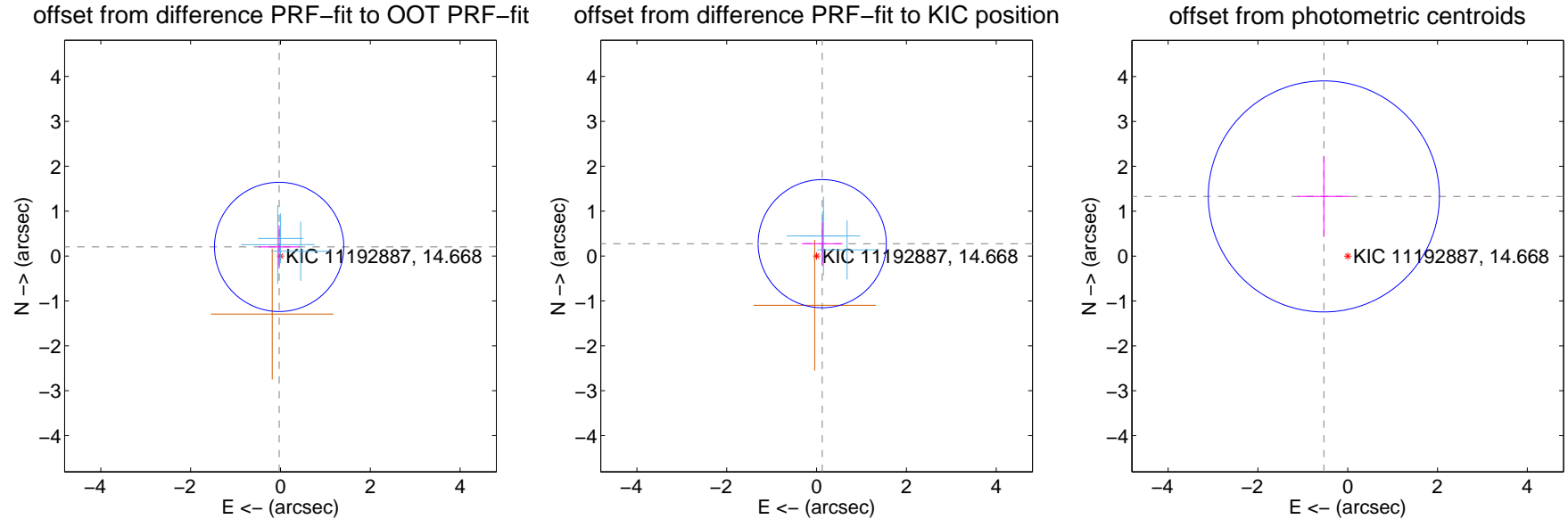
DV Centroid Data

Supplemental centroid analysis for 011192887-09. Kepler magnitude: 14.67. Transit SNR -1.00

There are 3 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

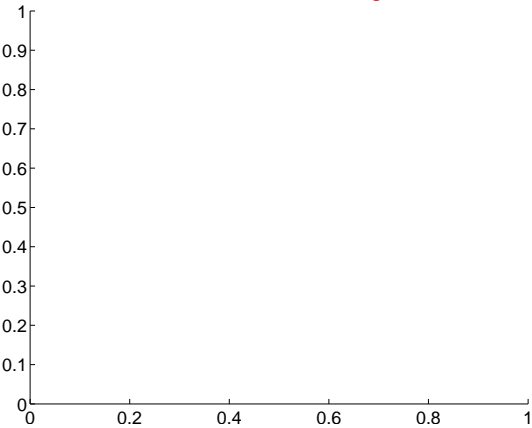
	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.205 ± 0.480	0.43	0.029 ± 0.454	0.203 ± 0.480
PRF-fit source offset from KIC position	0.302 ± 0.476	0.64	-0.126 ± 0.454	0.275 ± 0.480
photometric centroid source offset	1.43 ± 0.86	1.67	0.53 ± 0.58	1.33 ± 0.89



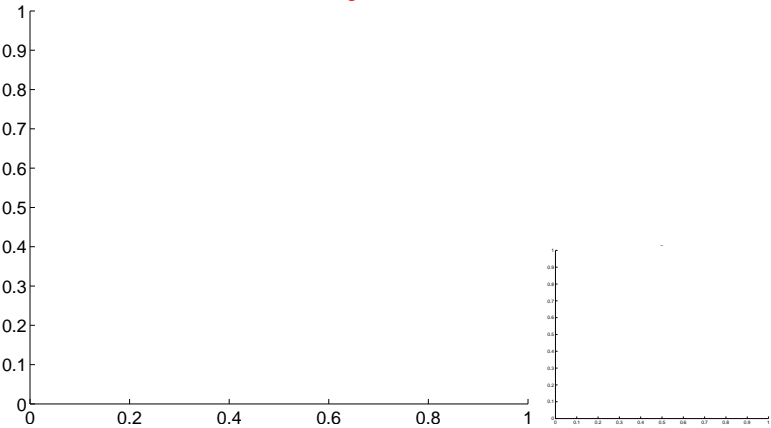
Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . 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 ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

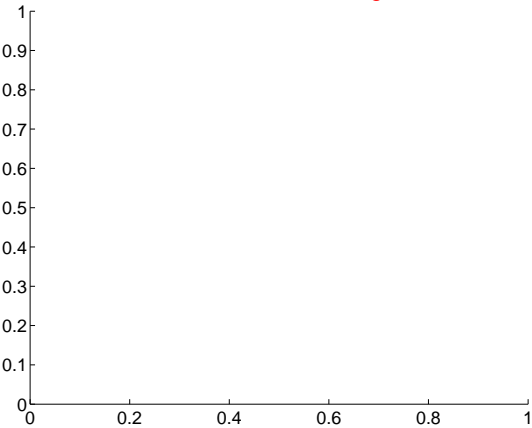
Q1 no difference image



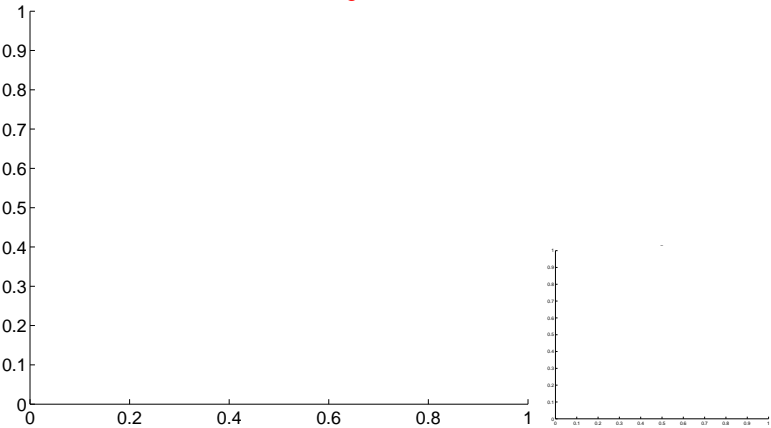
Q1 no OOT image



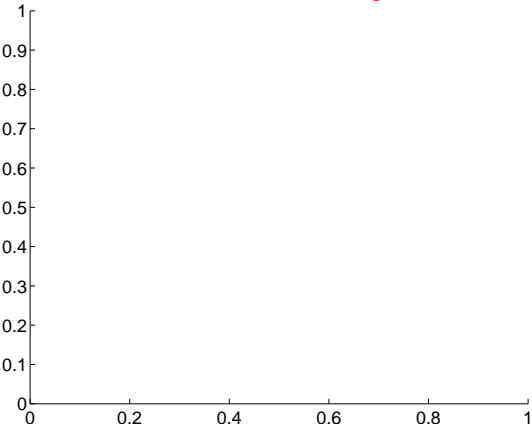
Q2 no difference image



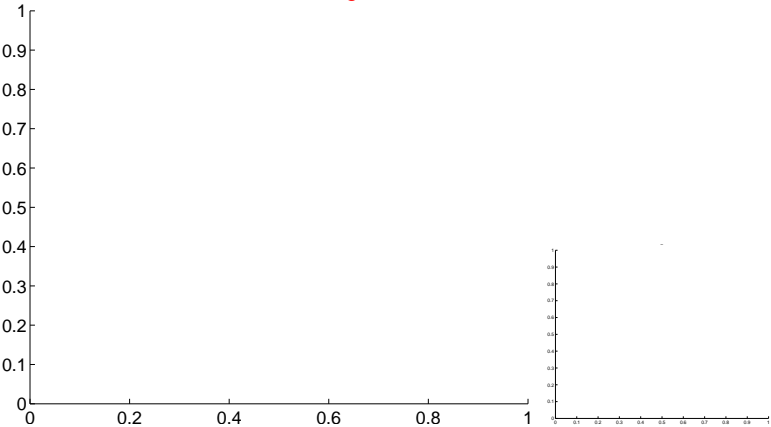
Q2 no OOT image



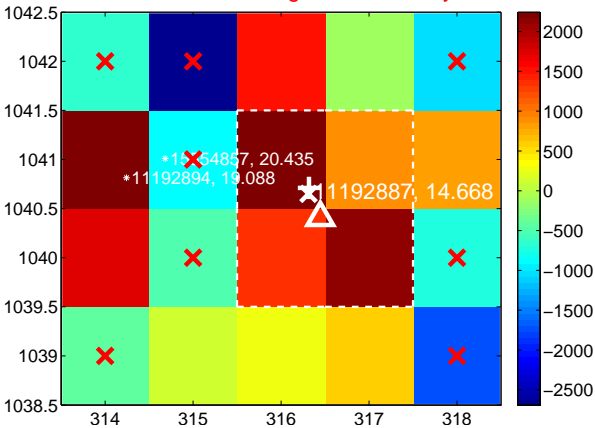
Q3 no difference image



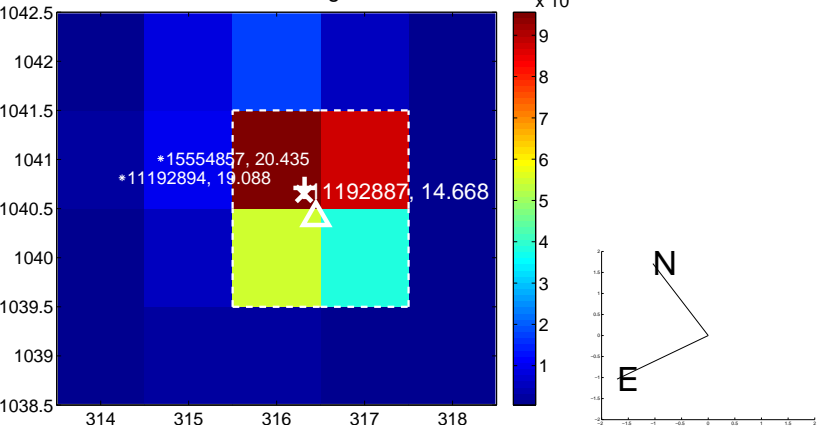
Q3 no OOT image



Q4 difference image. Poor Quality

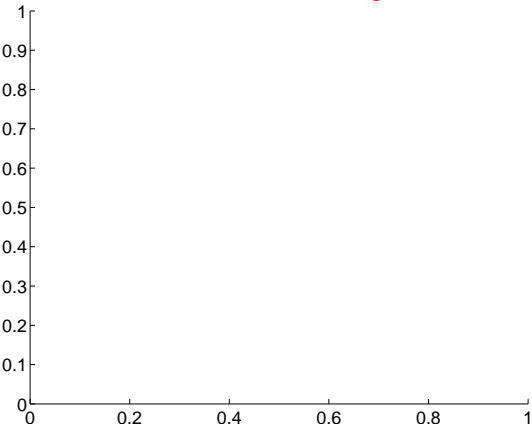


Q4 OOT image

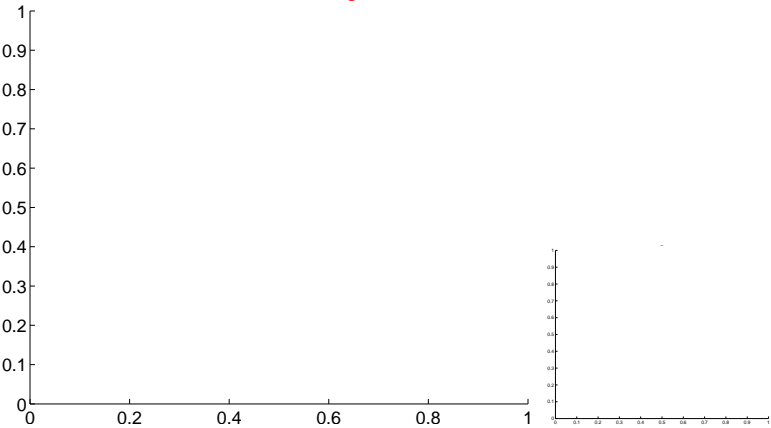


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

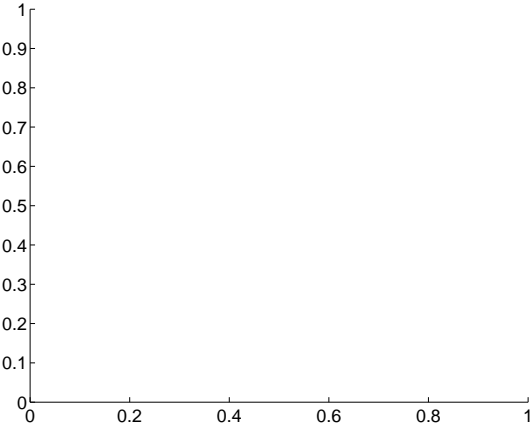
Q5 no difference image



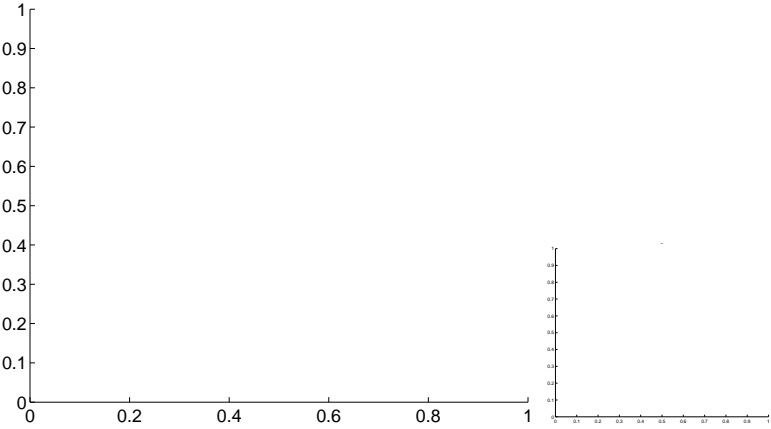
Q5 no OOT image



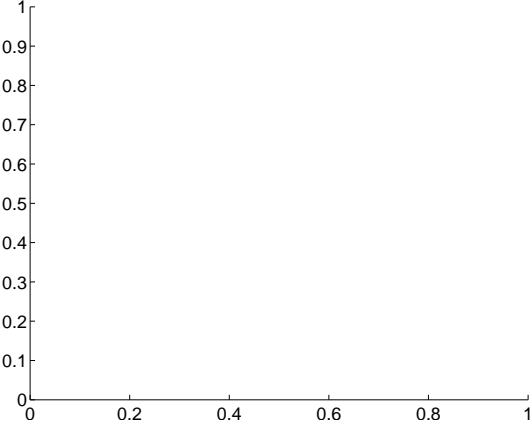
Q6 no difference image



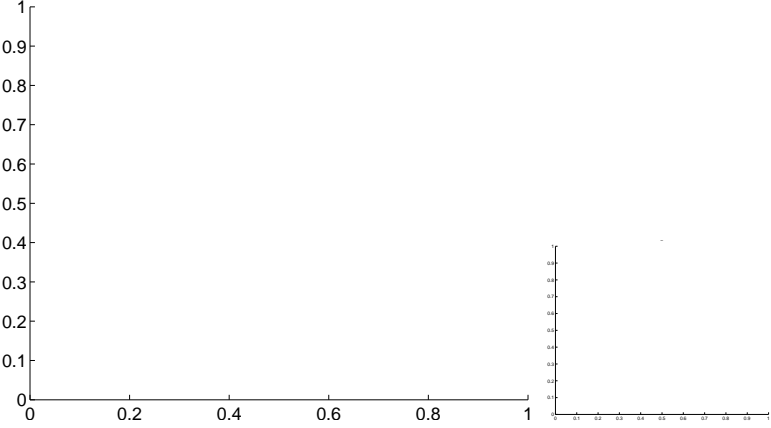
Q6 no OOT image



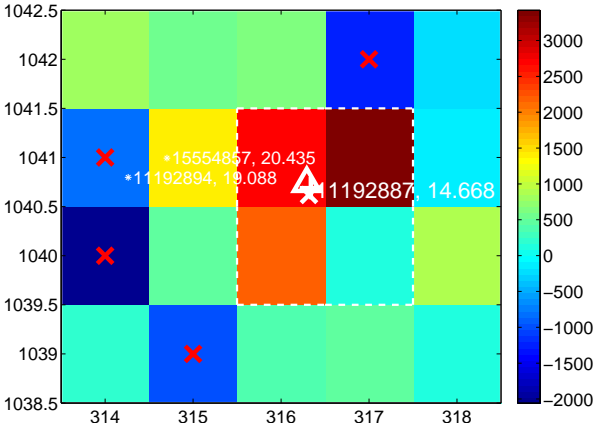
Q7 no difference image



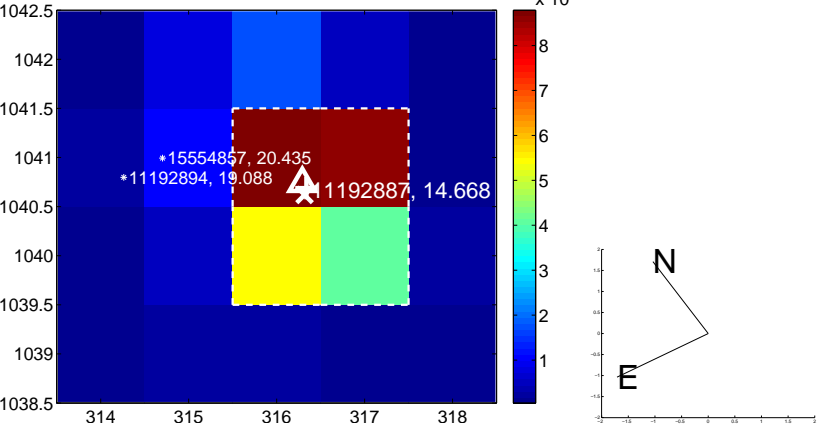
Q7 no OOT image



Q8 difference image

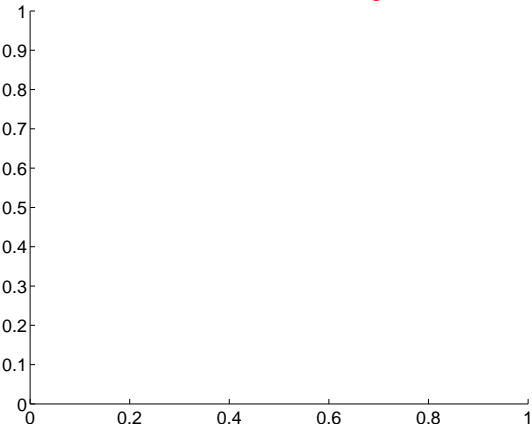


Q8 OOT image

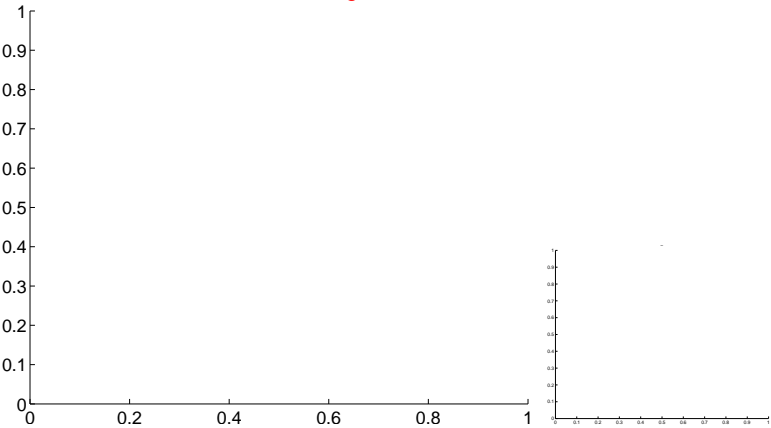


white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

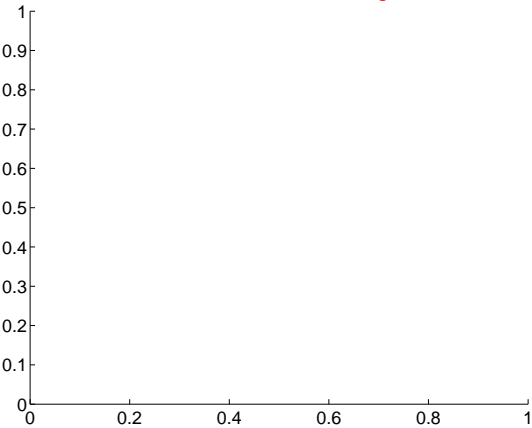
Q9 no difference image



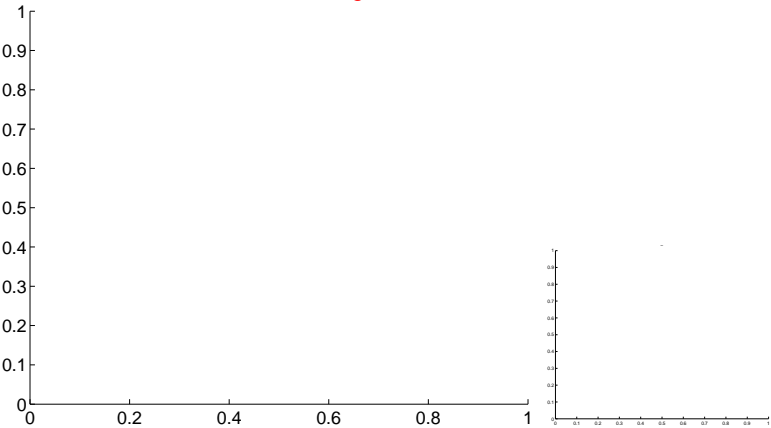
Q9 no OOT image



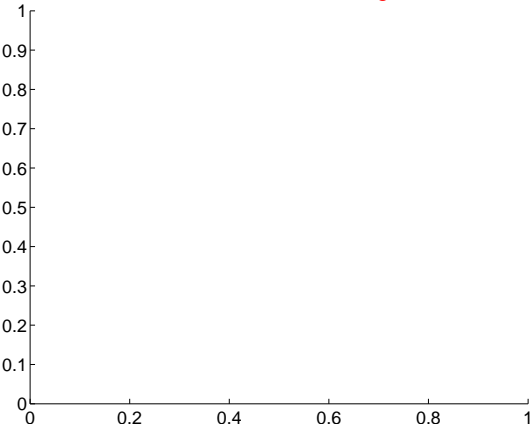
Q10 no difference image



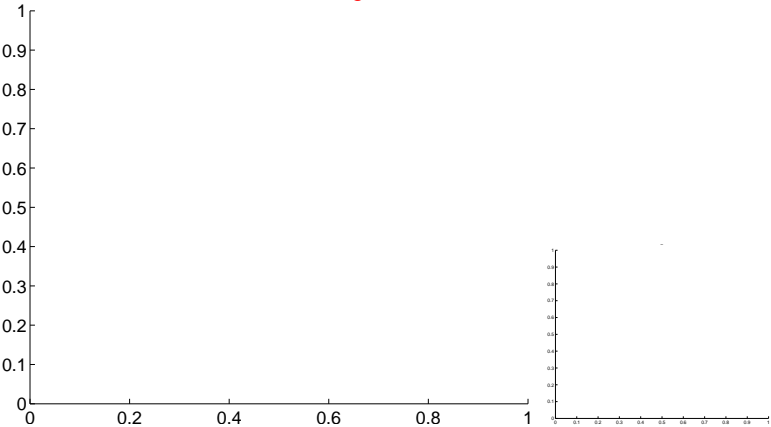
Q10 no OOT image



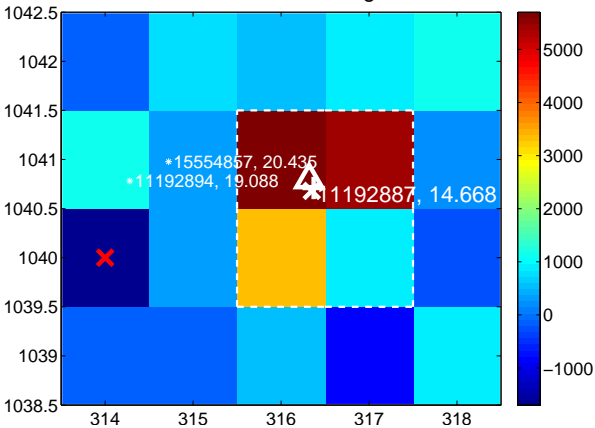
Q11 no difference image



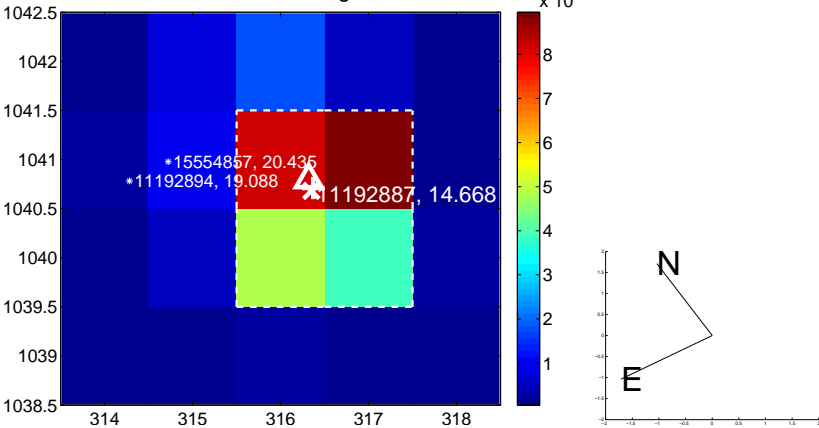
Q11 no OOT image



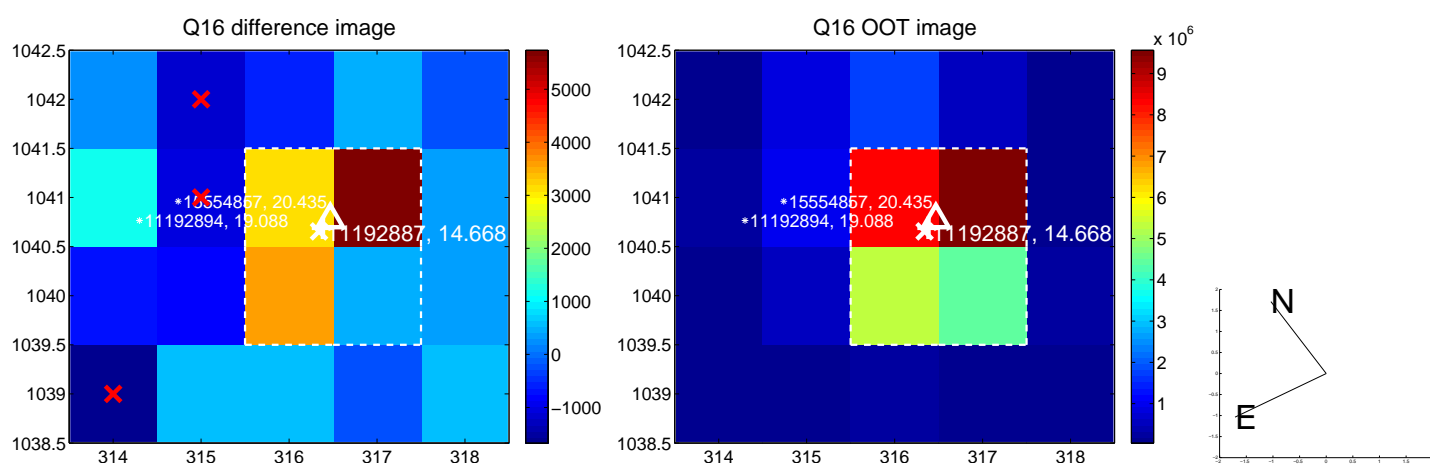
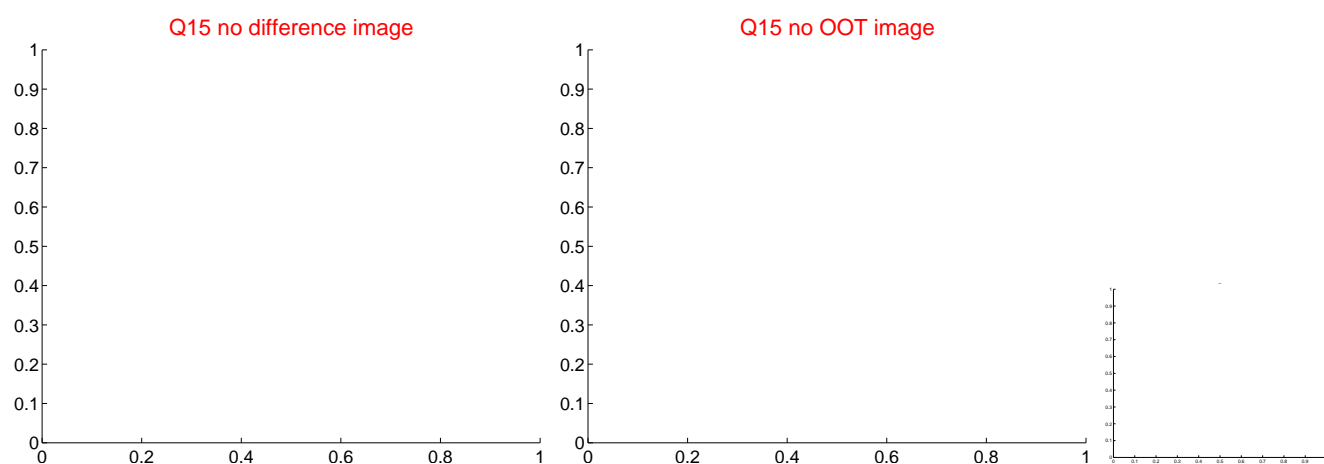
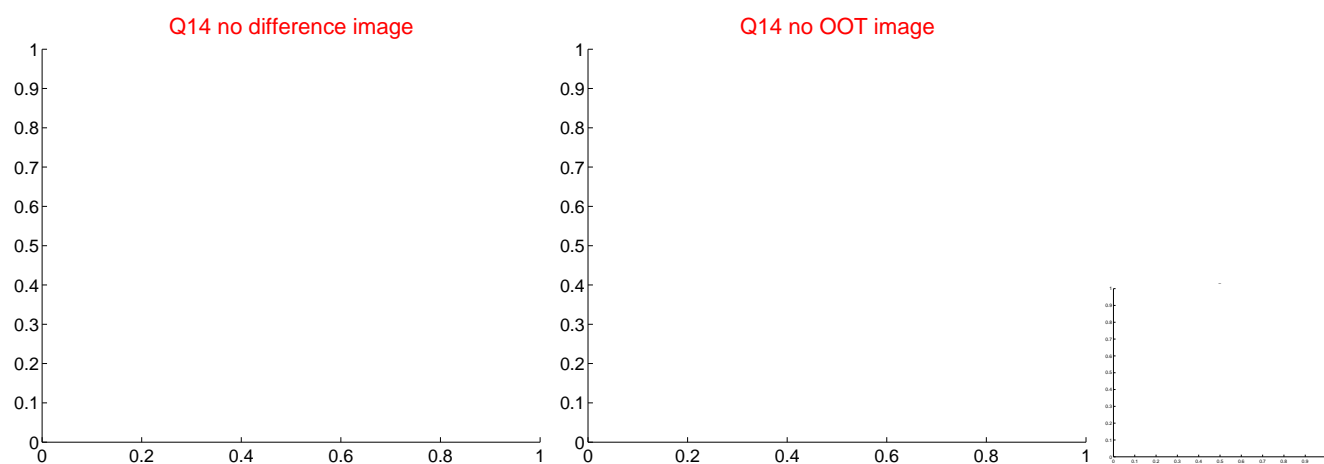
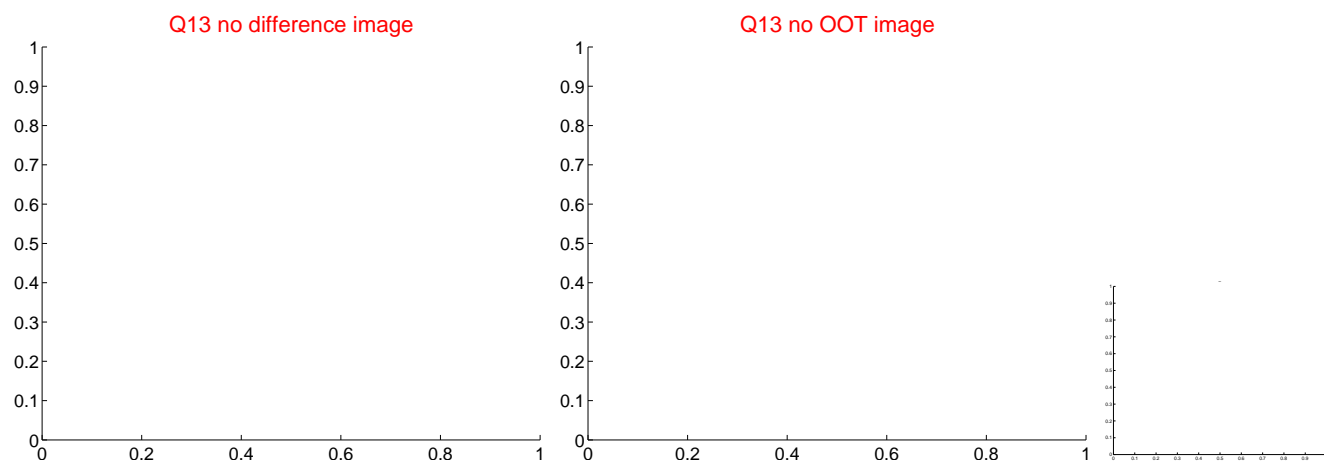
Q12 difference image



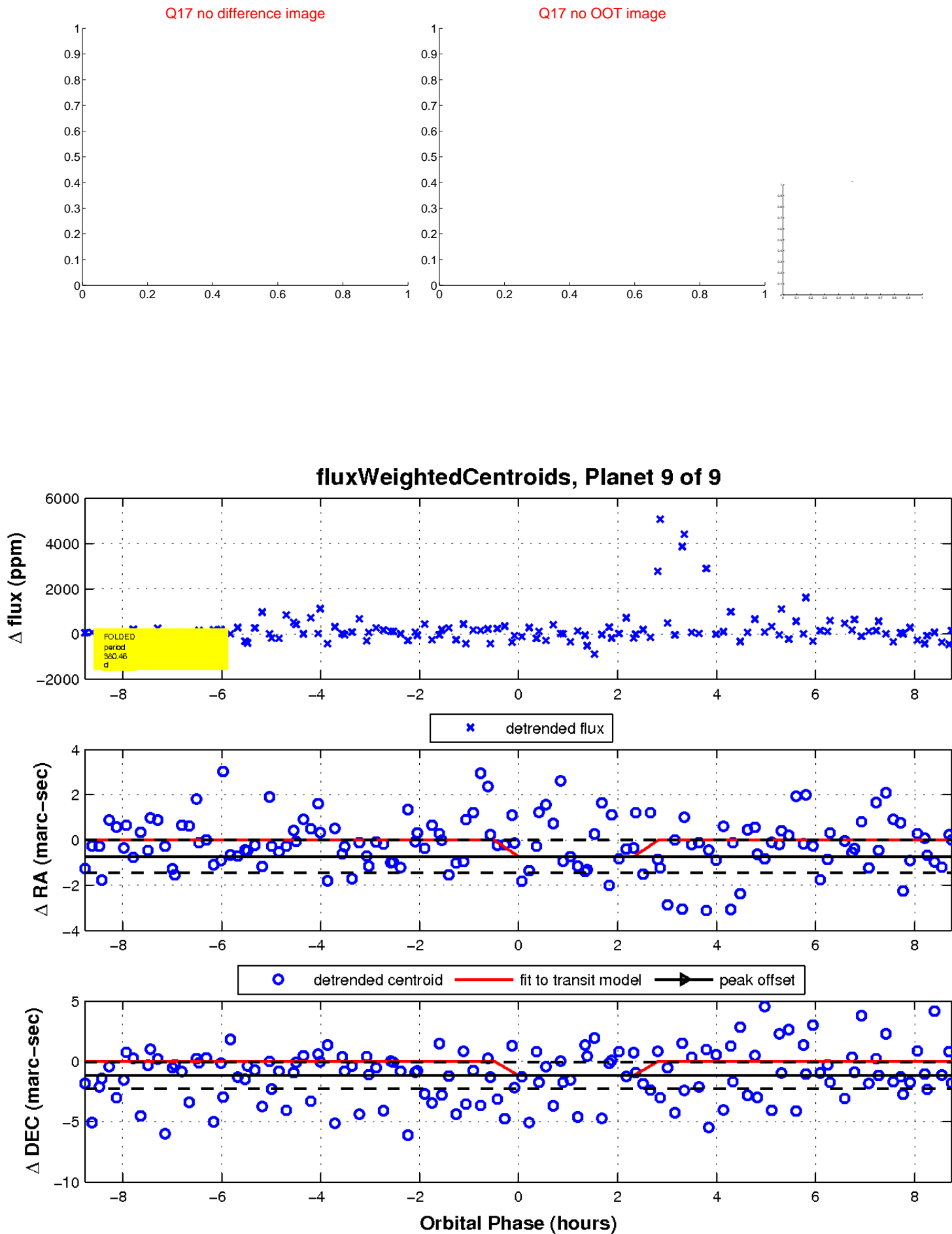
Q12 OOT image



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.



UKIRT Image

Declination

