

KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
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005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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.

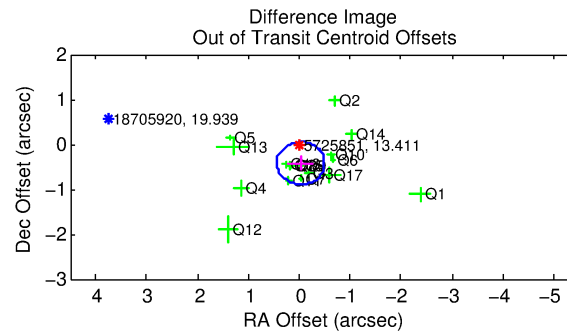
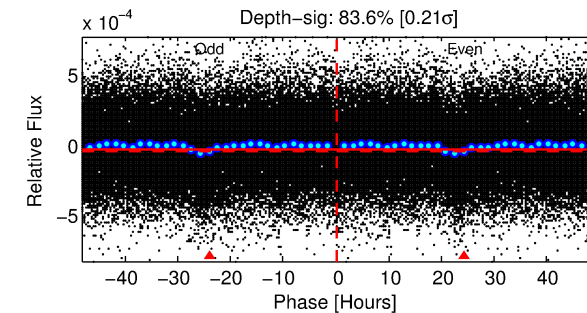
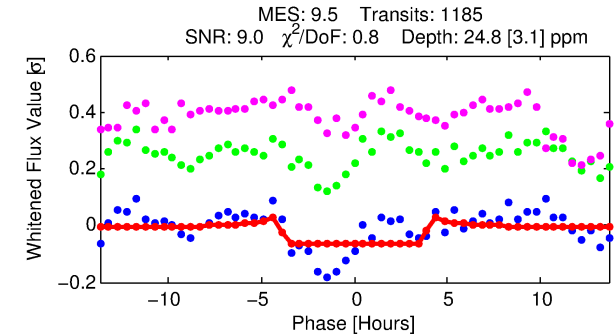
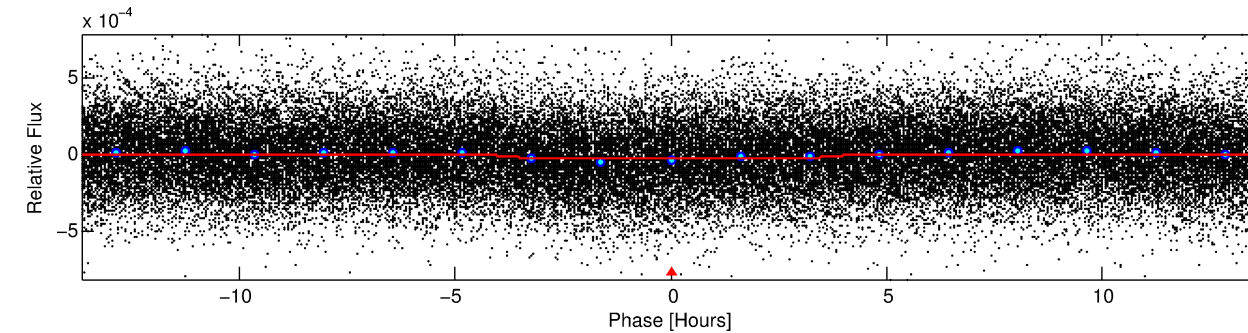
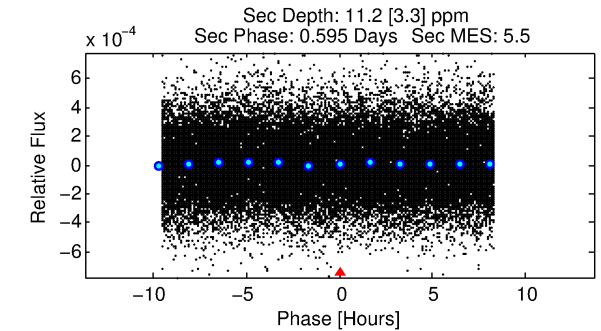
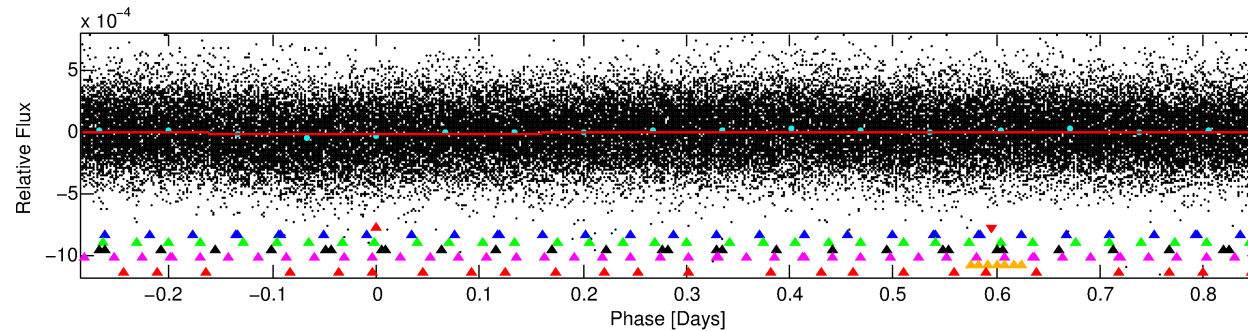
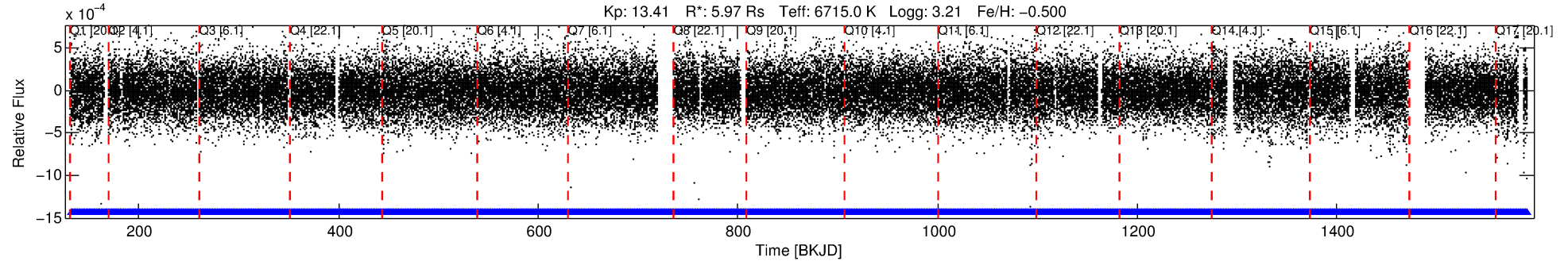
Ephemeris Match Information For 005725851-01

TCE (1)	KIC	Parent (2)	Parent KIC	$P_1:P_2$	Dist ($''$)	Δ Row	Δ Col	m_2	m_1	D_2/D_1	Mechanism	Flag	σ_P	σ_T
005725851-01	5725851	005725846-01	5725846	1:1	5.4	1	0	15.36	13.41	2.64	Direct-PRF	0	0.65	1.90

Notes: $P_1:P_2$ is the period ratio. Dist is the distance in arcseconds. Δ Row and Δ Col are the number of pixels apart in row and column. m_2 and m_1 are the magnitudes of the parent and child. D_2/D_1 is the parent's transit depth divided by the child's. σ_P and σ_T are the significance of the match in period and epoch. For a match to be considered significant $\sigma_P < 5.0$ and $\sigma_T < 5.0$. Matches which have σ_P and σ_T very close to this cutoff should receive extra scrutiny, especially if the period ratio is very large.

DV One-Page Summary

KIC: 5725851 Candidate: 1 of 7 Period: 1.140 d
KOI: K06620.01 Corr: 0.844



DV Fit Results:

Period = 1.14017 [0.00002] d
Epoch = 132.3780 [0.0051] BKJD
Rp/R* = 0.0047 [0.0032]
a/R* = 1.20 [1.41]
b = 0.51 [5.65]
Seff = N/A
Teq = N/A
Rp = 3.08 [2.63] Re
a = N/A
Ag = N/A
Teffp = N/A

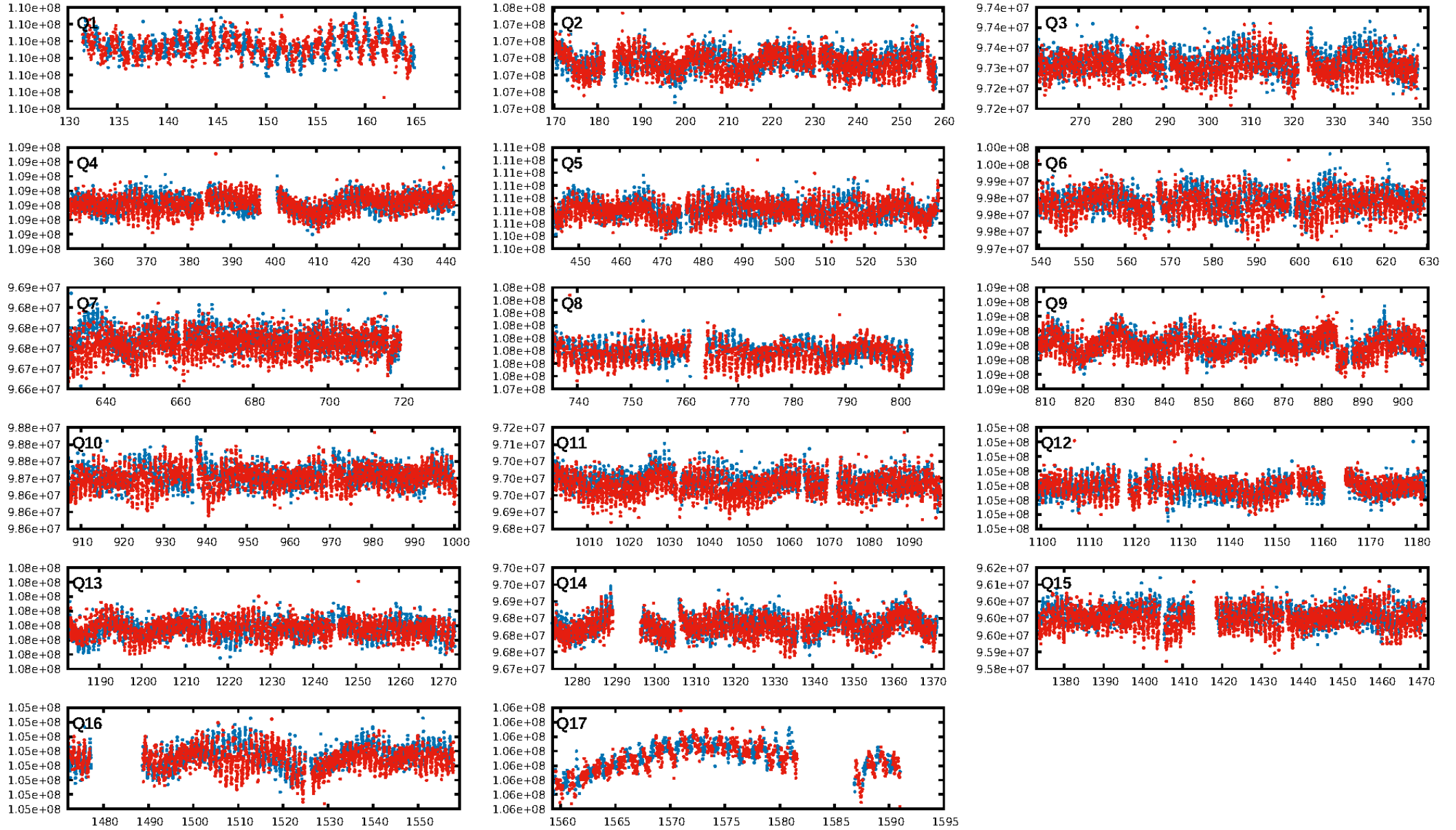
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: 100.0% [55.28σ]
ModelChiSquare2-sig: N/A
ModelChiSquareGof-sig: N/A
Bootstrap-pfa: 2.51e-12
RollingBand-fgt: 1.00 [1132/1132]
GhostDiagnostic-chr: 1.285
Centroid-sig: 0.0%
Centroid-so: 2.966 arcsec [5.02σ]
OotOffset-rm: 0.425 arcsec [2.71σ]
KicOffset-rm: 0.089 arcsec [0.43σ]
OotOffset-st: 4/4/4/5 [17]
KicOffset-st: 4/4/4/5 [17]
DiffImageQuality-fgm: 1.00 [17/17]
DiffImageOverlap-fno: 1.00 [17/17]

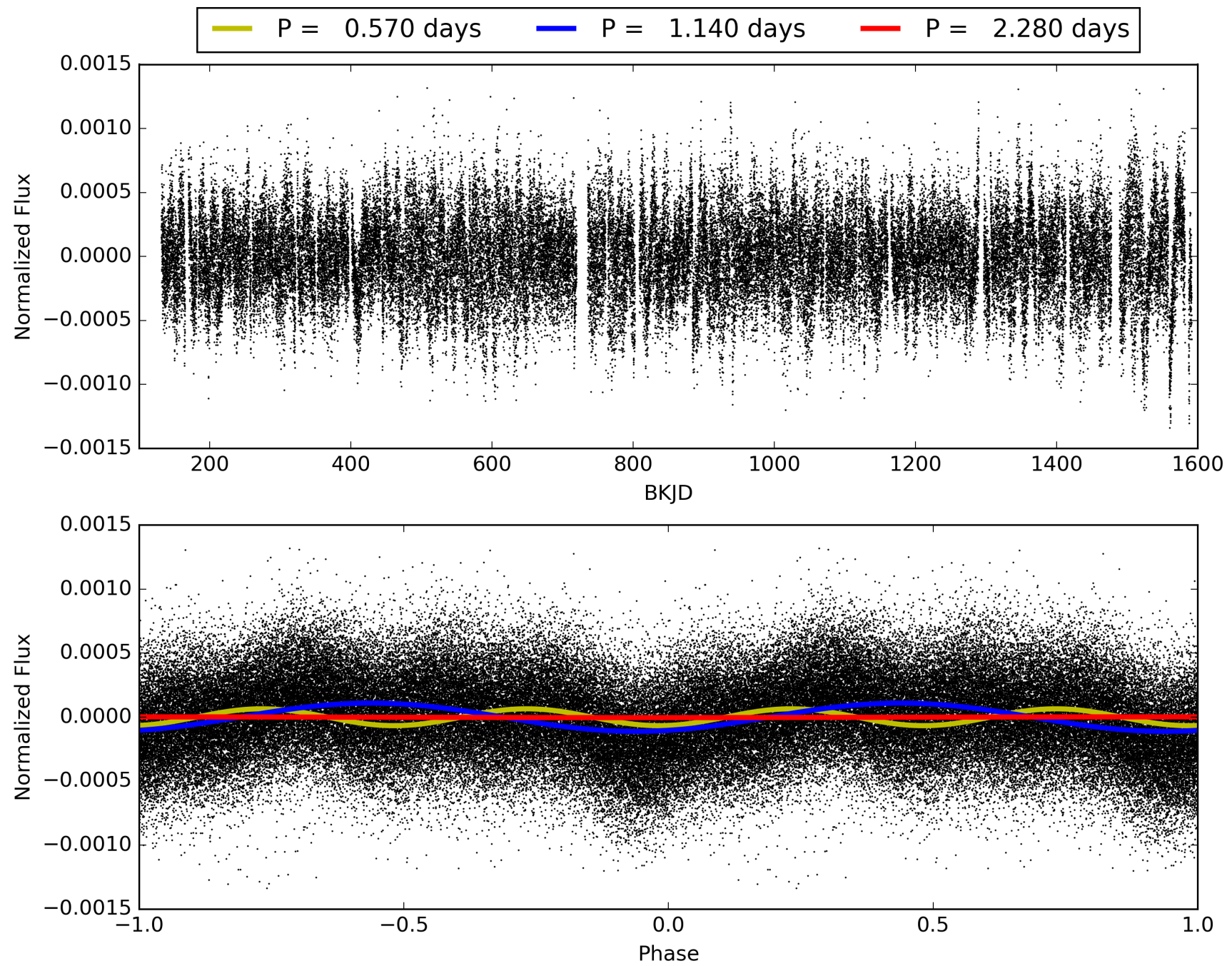
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005725851-01, PDC Light Curves

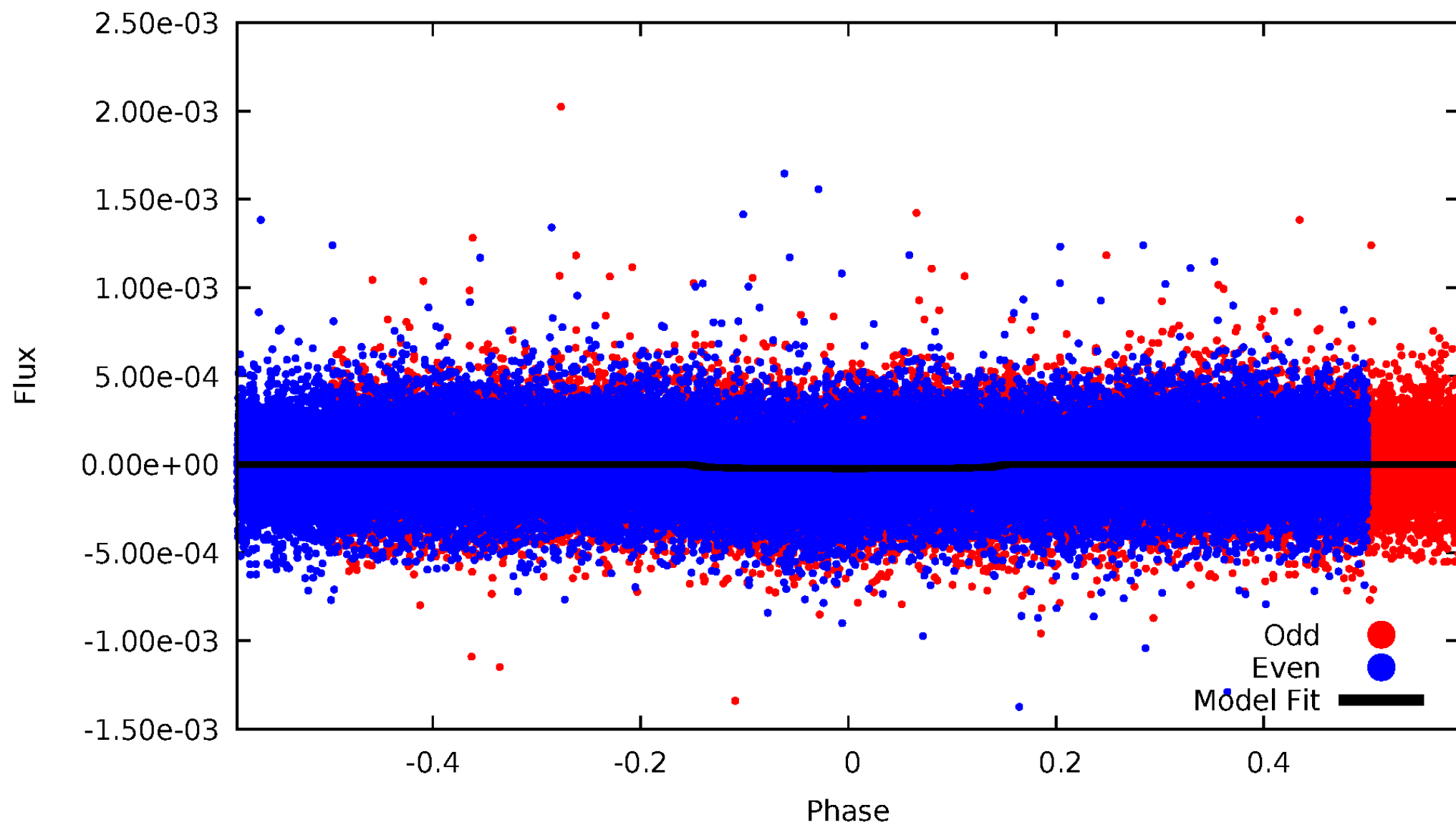


TCE 005725851-01



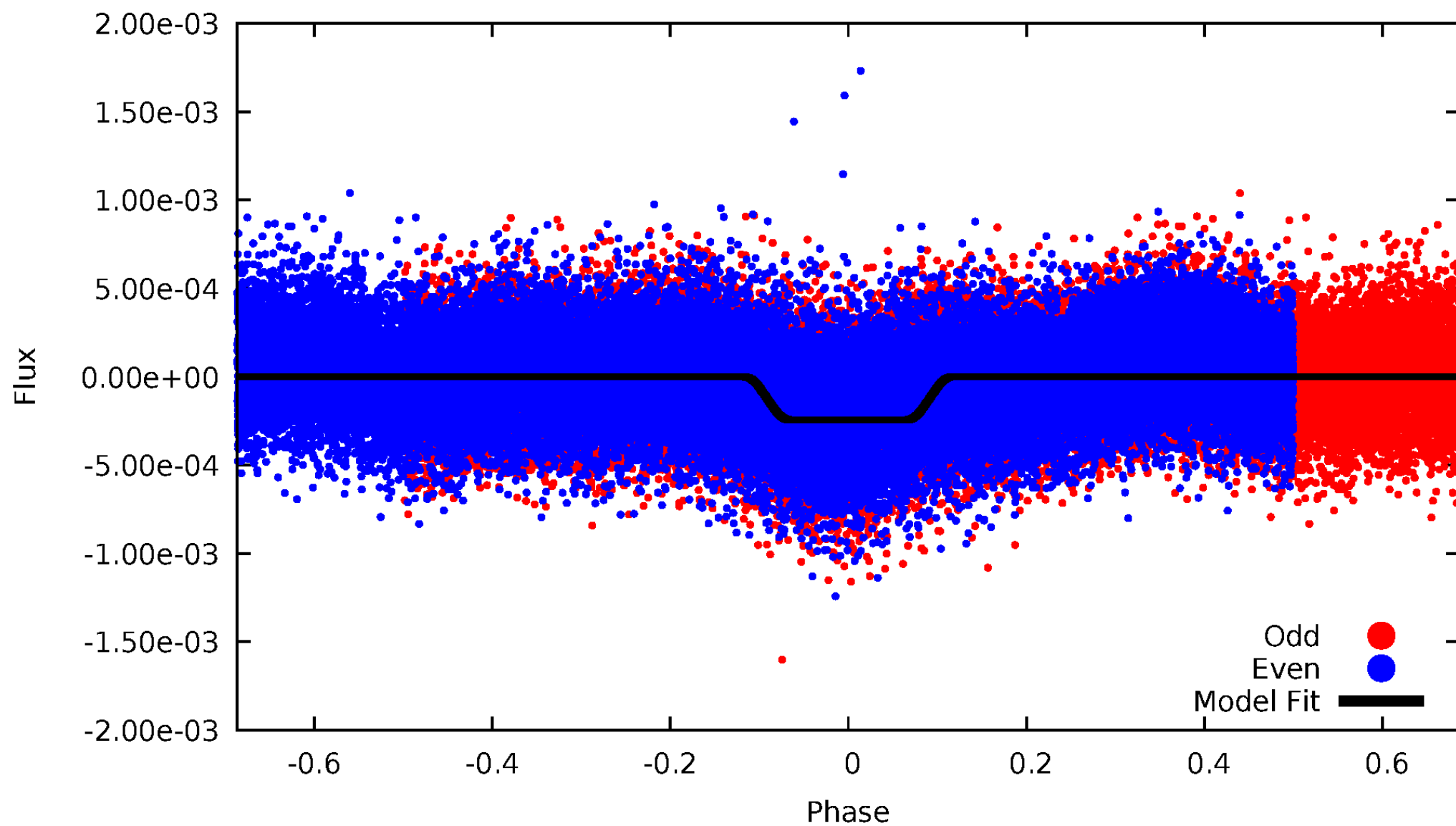
DV Odd/Even

TCE 005725851-01

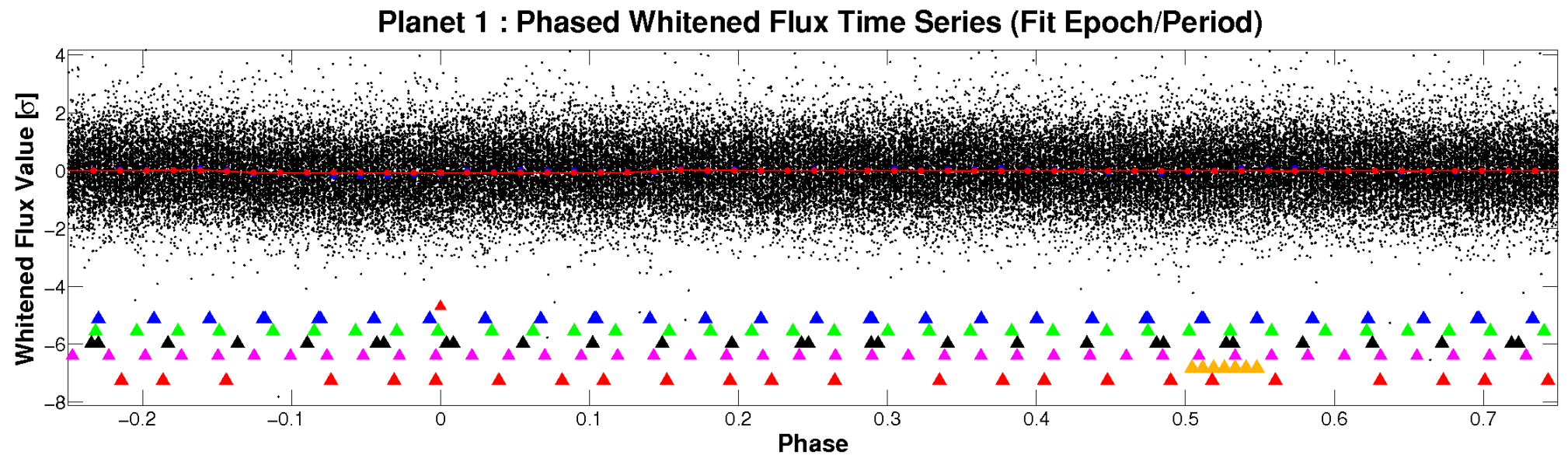
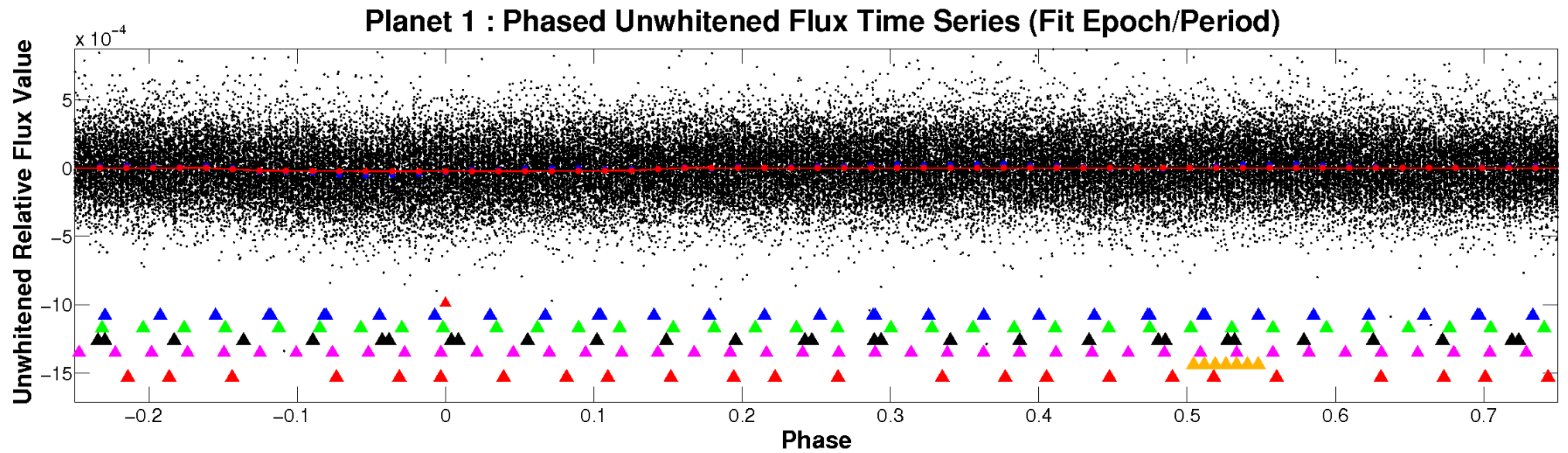


ALT Odd/Even

TCE 005725851-01

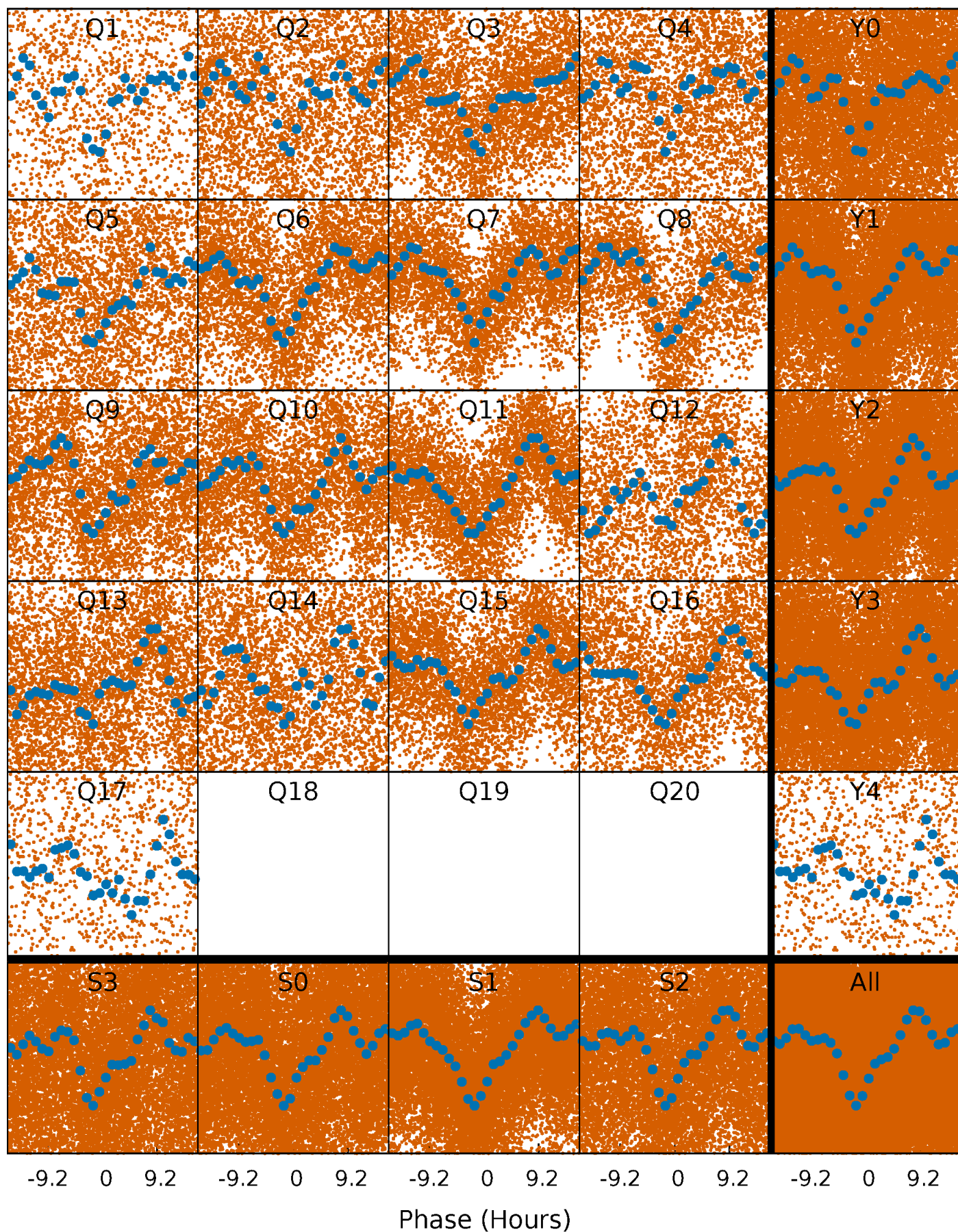


Non-Whitened Vs. Whitened Light Curve



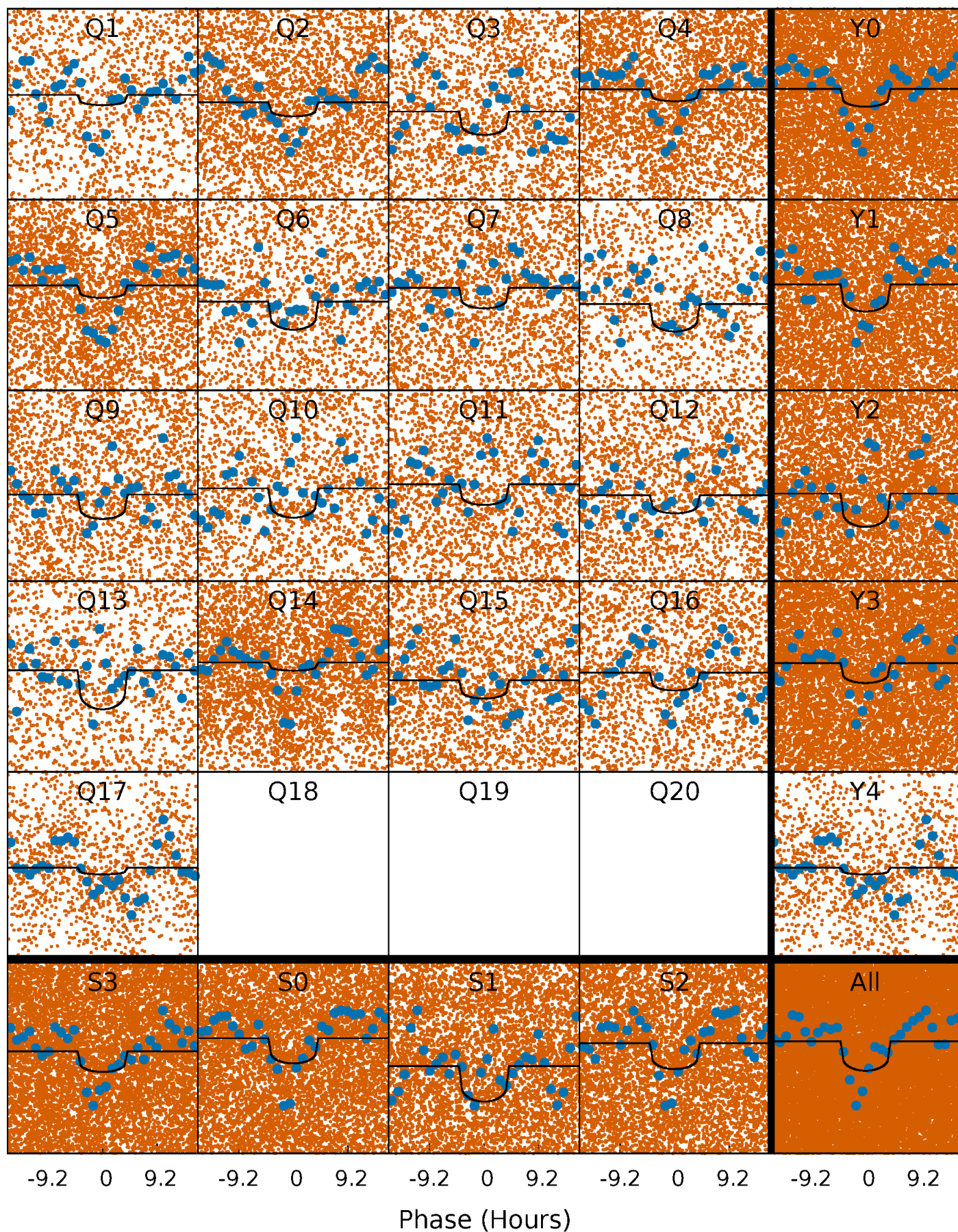
PDC Quarter-Phased Transit Curves

TCE 005725851-01 P= 1.140169 Days $T_0=132.377973$ (BKJD)



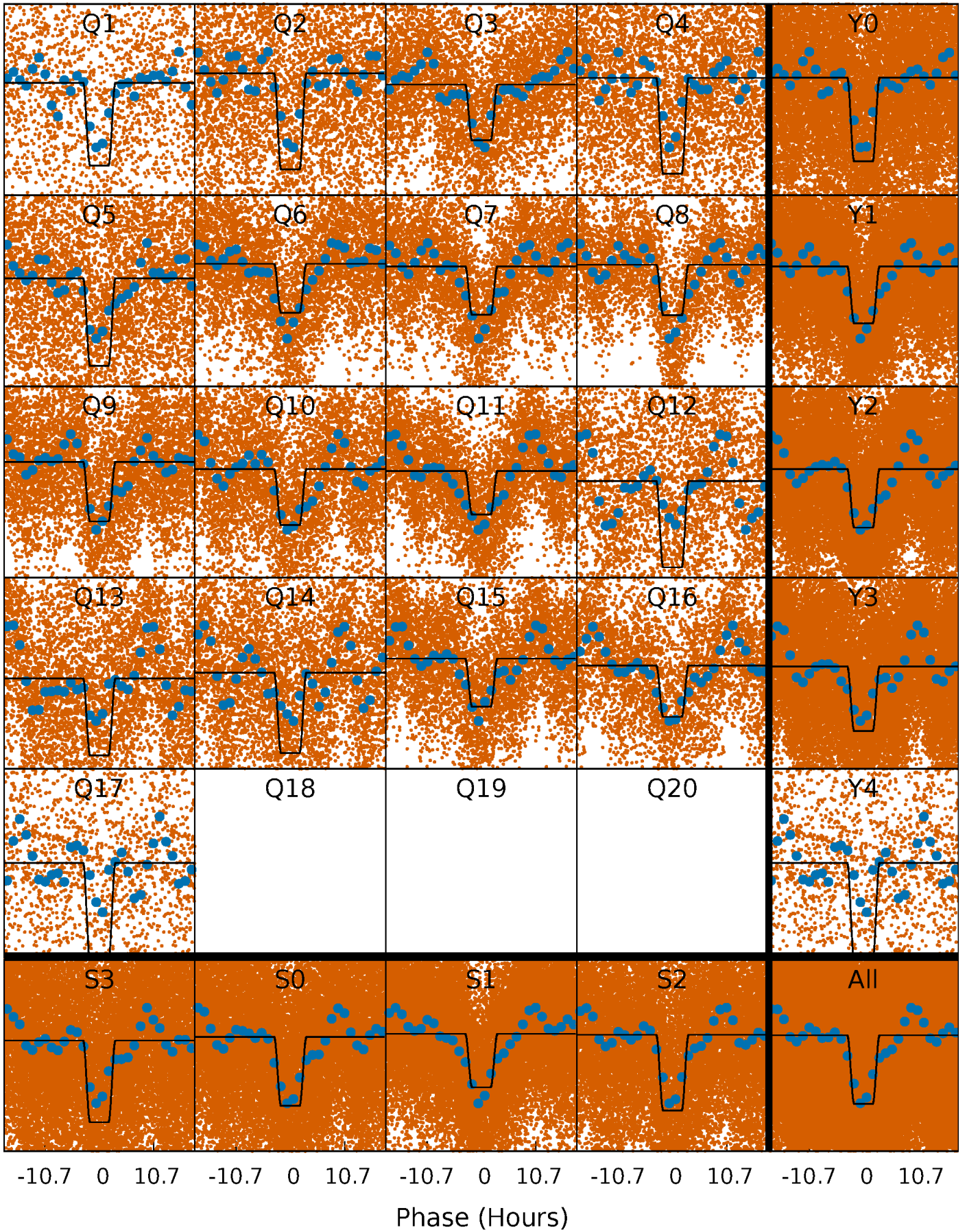
DV Quarter-Phased Transit Curves

TCE 005725851-01 P= 1.140169 Days $T_0=132.377973$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

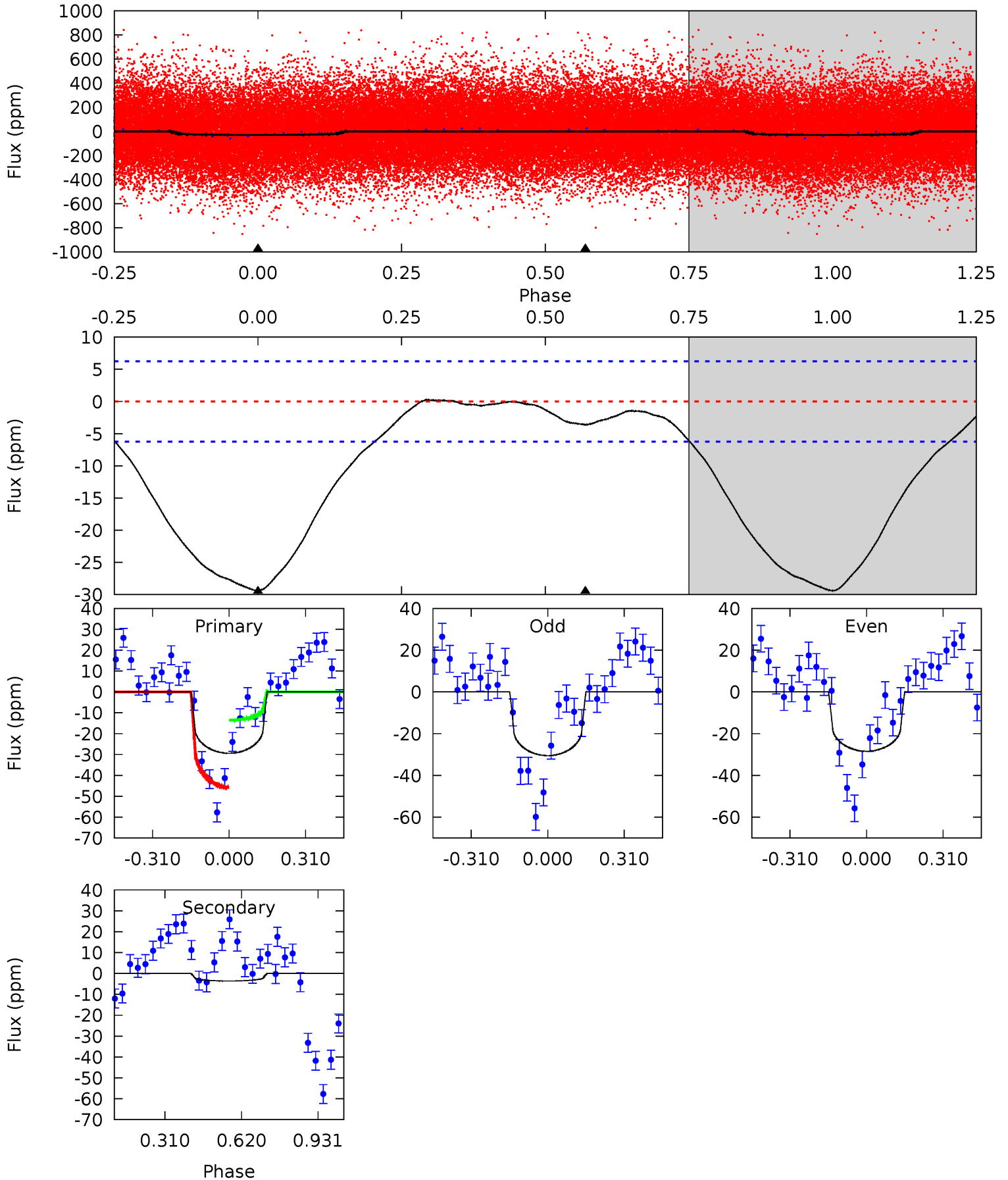
TCE 005725851-01 P= 1.140138 Days $T_0=132.339124$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-01, P = 1.140169 Days, E = 131.237804 Days

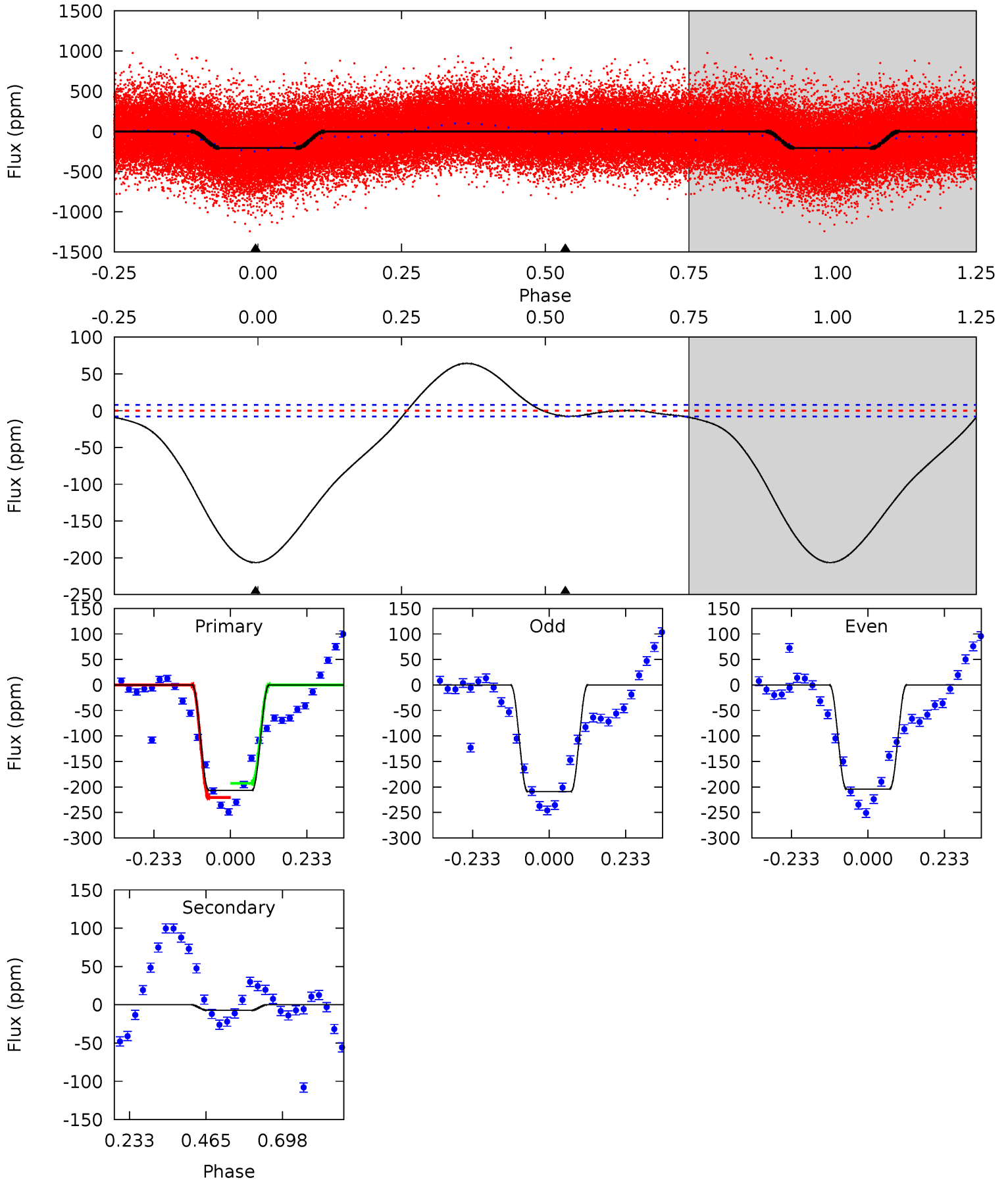
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
20.4	2.50	0	0	4.32	1.01	0.83	20.4	20.4	2.50	2.50	0.73	1.07	0.01	11.2



Alt Model-Shift Uniqueness Test

005725851-01, P = 1.140138 Days, E = 131.198986 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
114.5	4.10	0	0	4.38	1.19	12.4	114.5	114.5	4.10	4.10	1.41	1.00	0.24	7.63



Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-01 / KOI 6620.01

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-4 ± 1	$2.83^{+2.11}_{-1.63}$	5896^{+510}_{-745}	-3991^{+9232}_{-906}	$0.180^{+0.749}_{-0.132}$
Alt.	-7 ± 2	$9.04^{+3.04}_{-2.60}$	5905^{+525}_{-782}	-4781^{+577}_{-406}	$0.035^{+0.036}_{-0.016}$

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 $A_{obs} \gg 1.0$

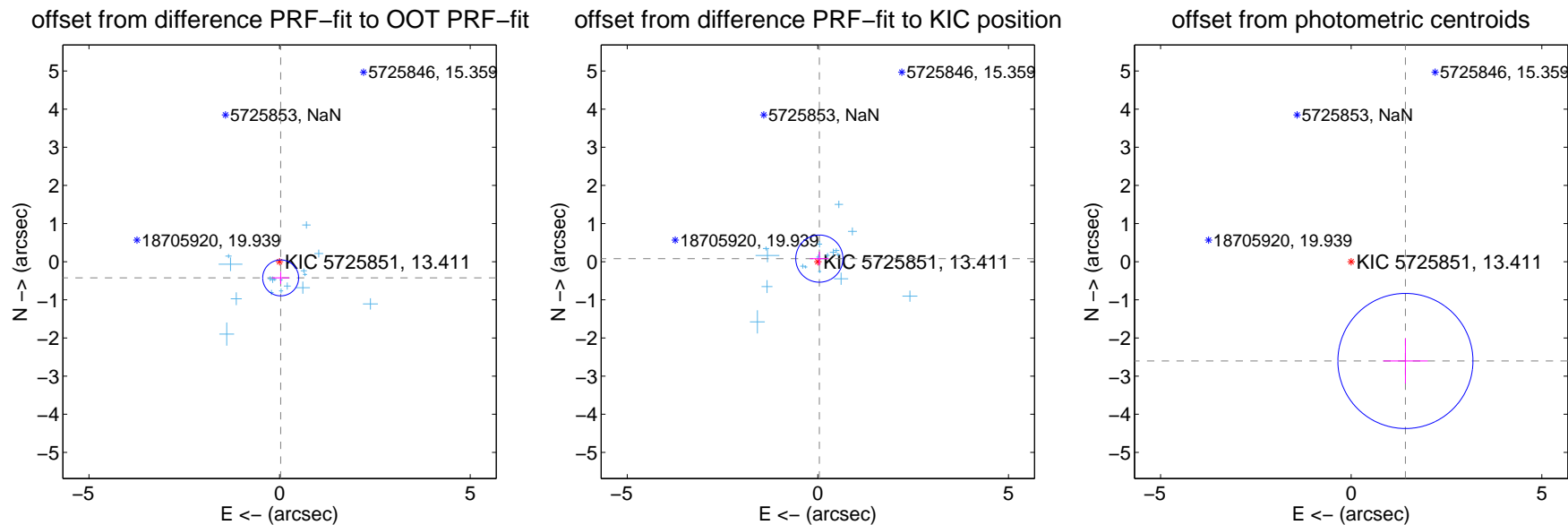
DV Centroid Data

Supplemental centroid analysis for 005725851-01. Kepler magnitude: 13.41. Transit SNR 8.99

There are 17 quarters with good PRF difference image offsets

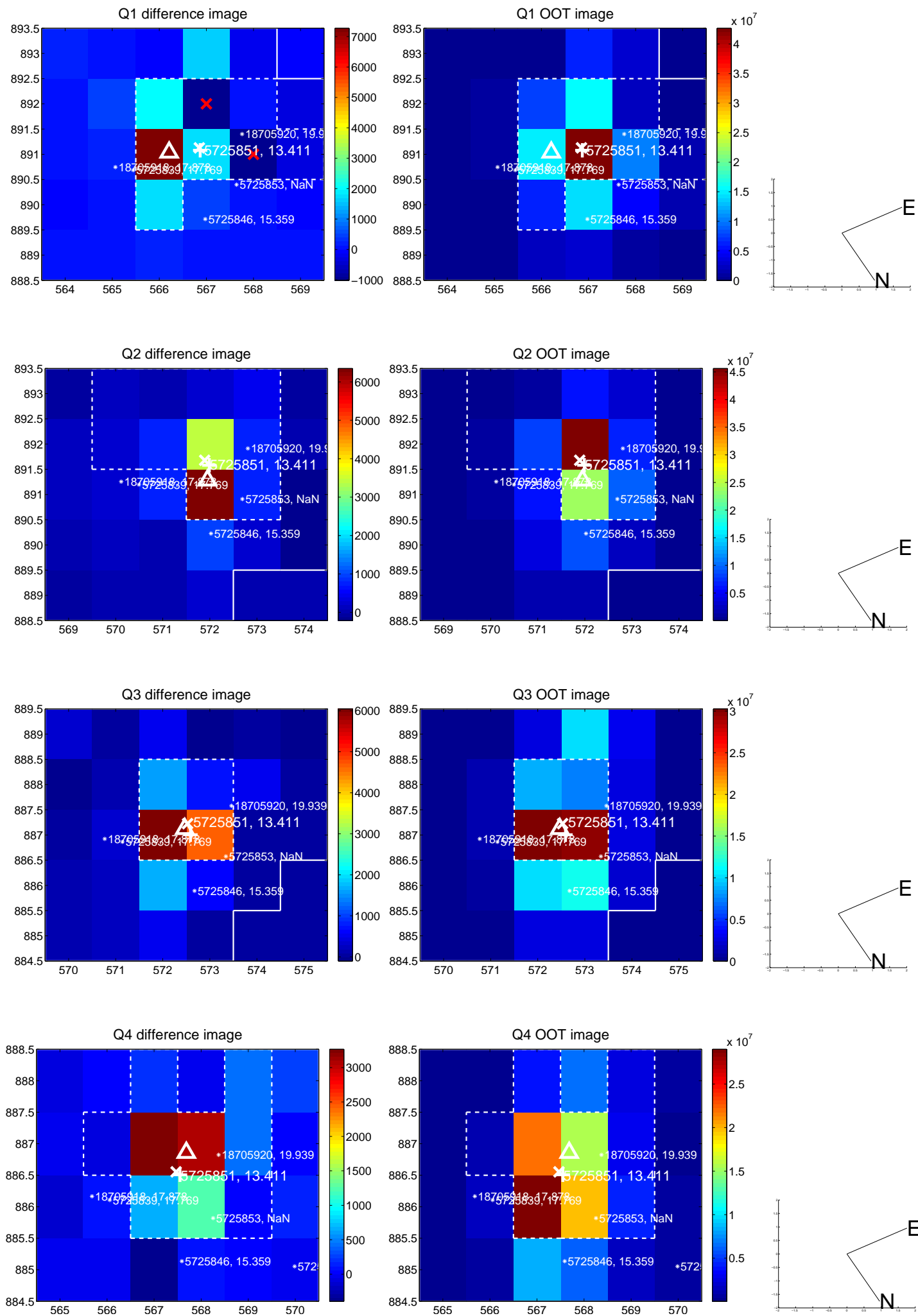
The direct PRF centroid is offset from the target star catalog position by about 0.23 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.425 ± 0.157	2.71	-0.028 ± 0.227	-0.425 ± 0.158
PRF-fit source offset from KIC position	0.089 ± 0.206	0.43	-0.039 ± 0.246	0.081 ± 0.179
photometric centroid source offset	2.97 ± 0.59	5.02	-1.42 ± 0.58	-2.60 ± 0.59

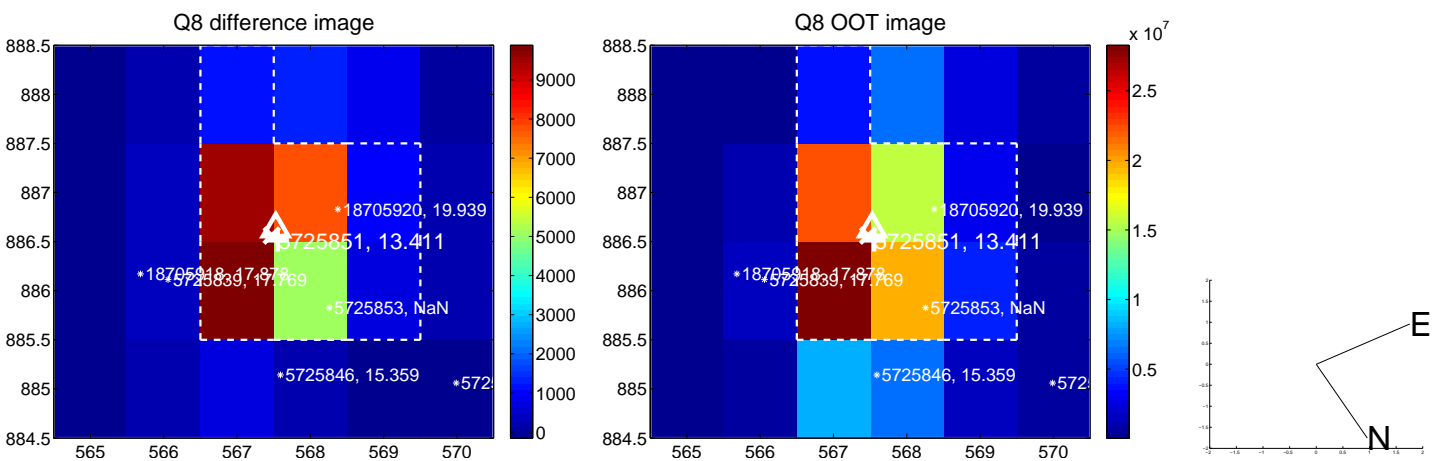
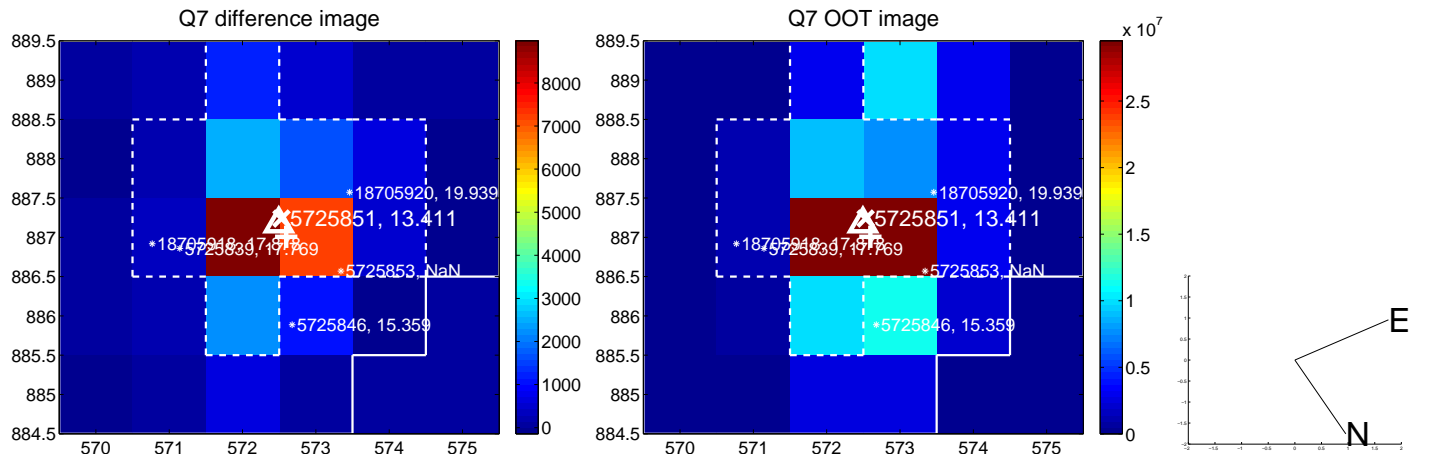
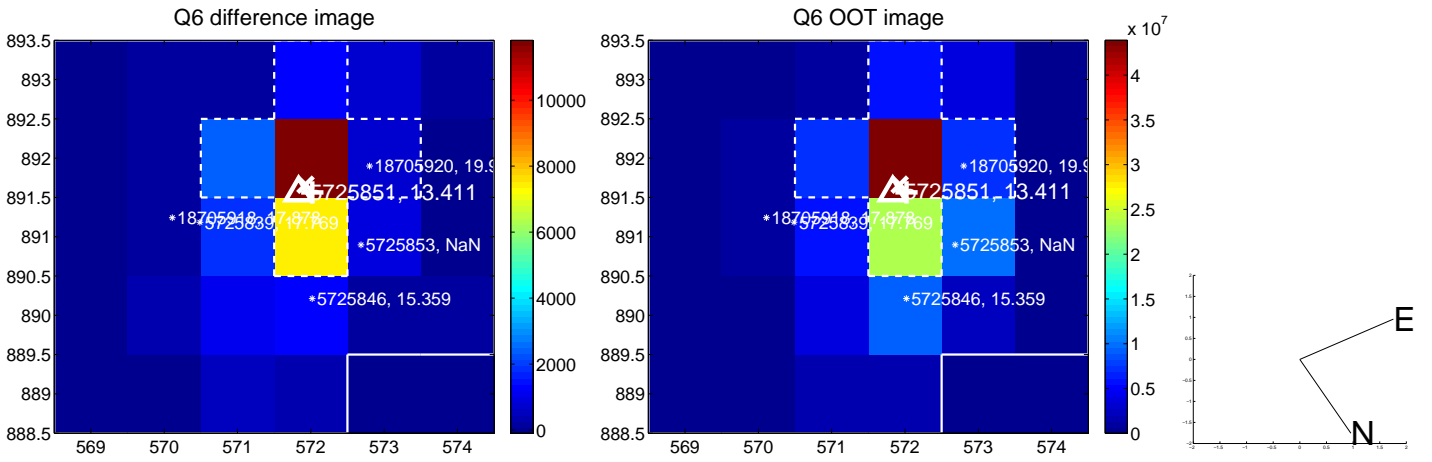
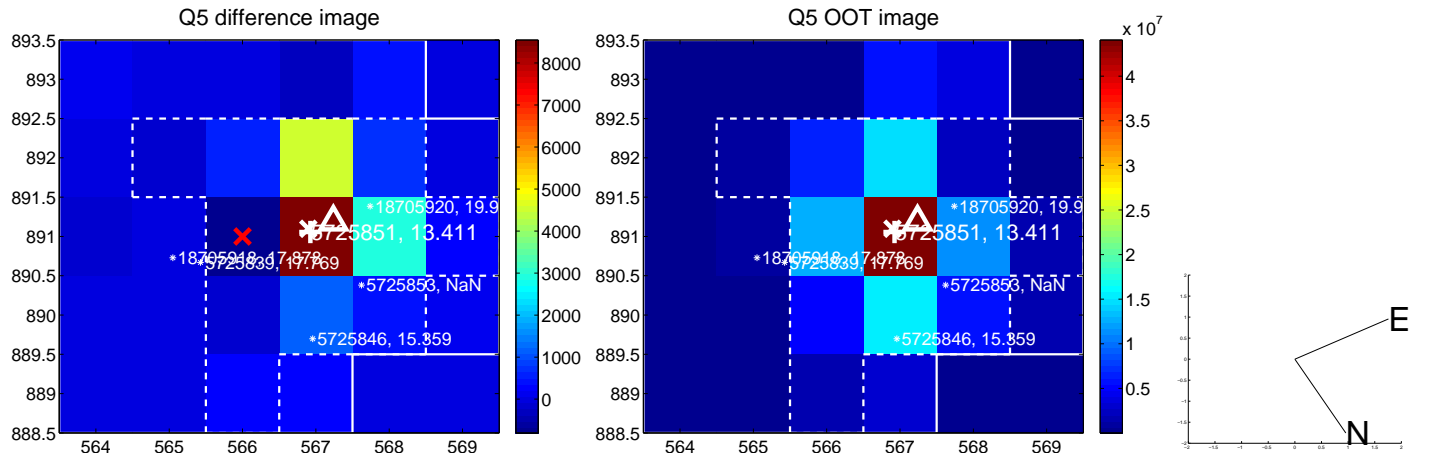


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets**; **Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

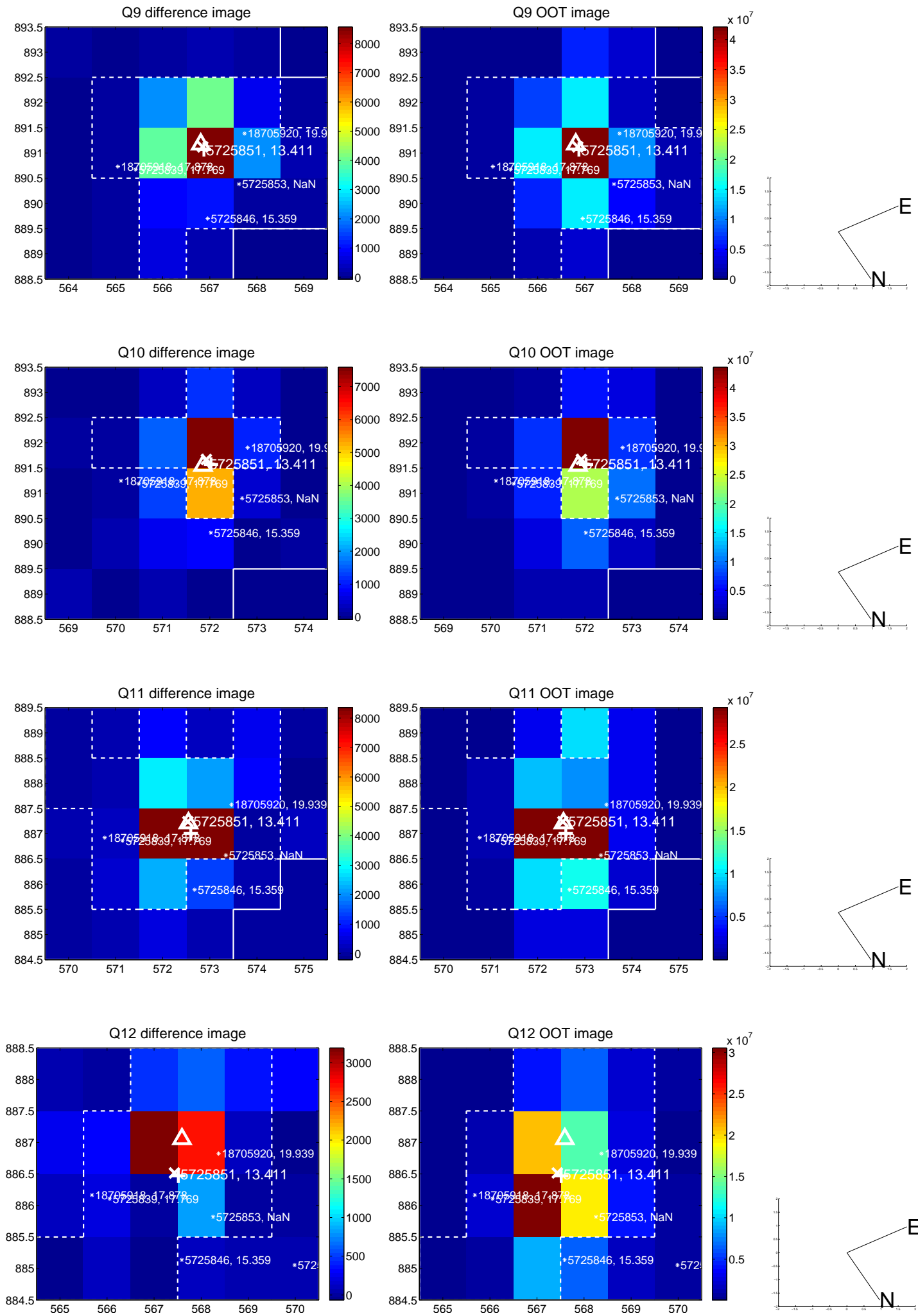
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



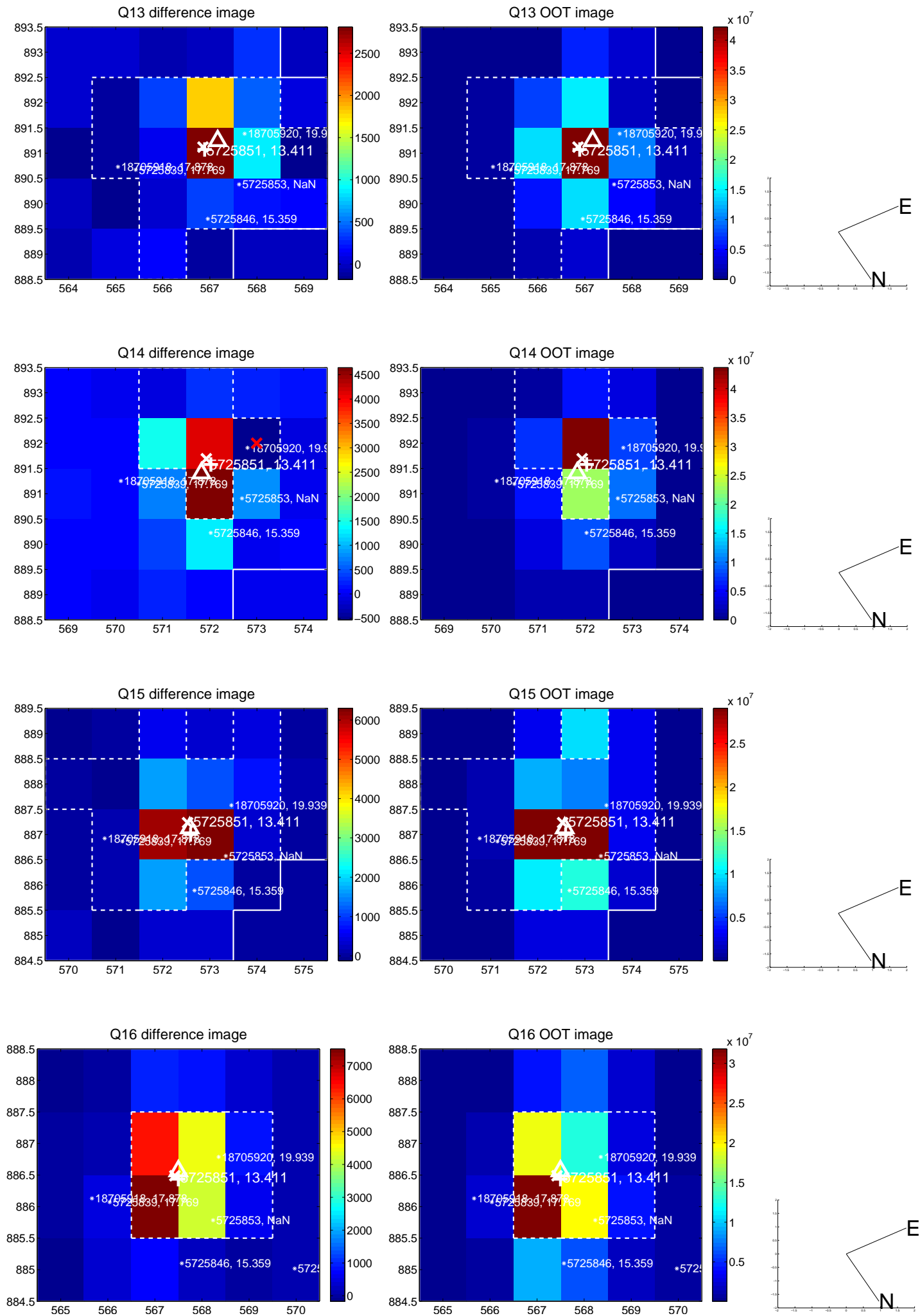
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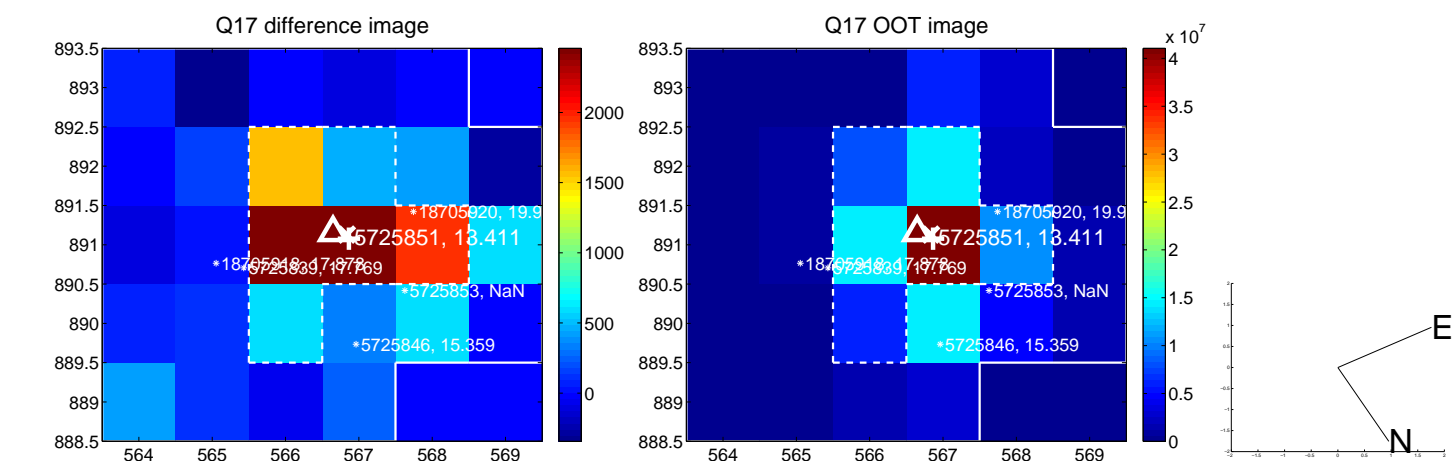
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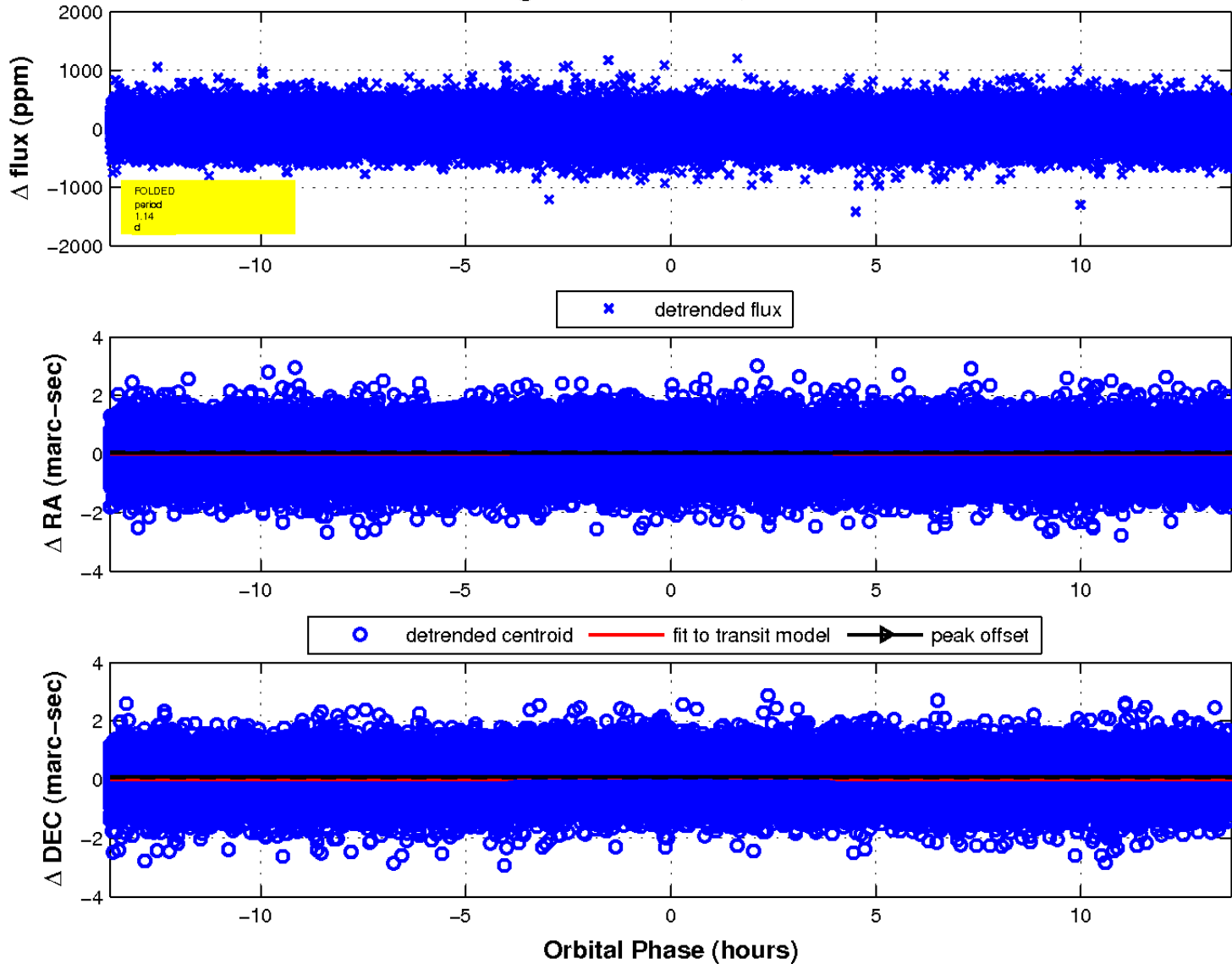
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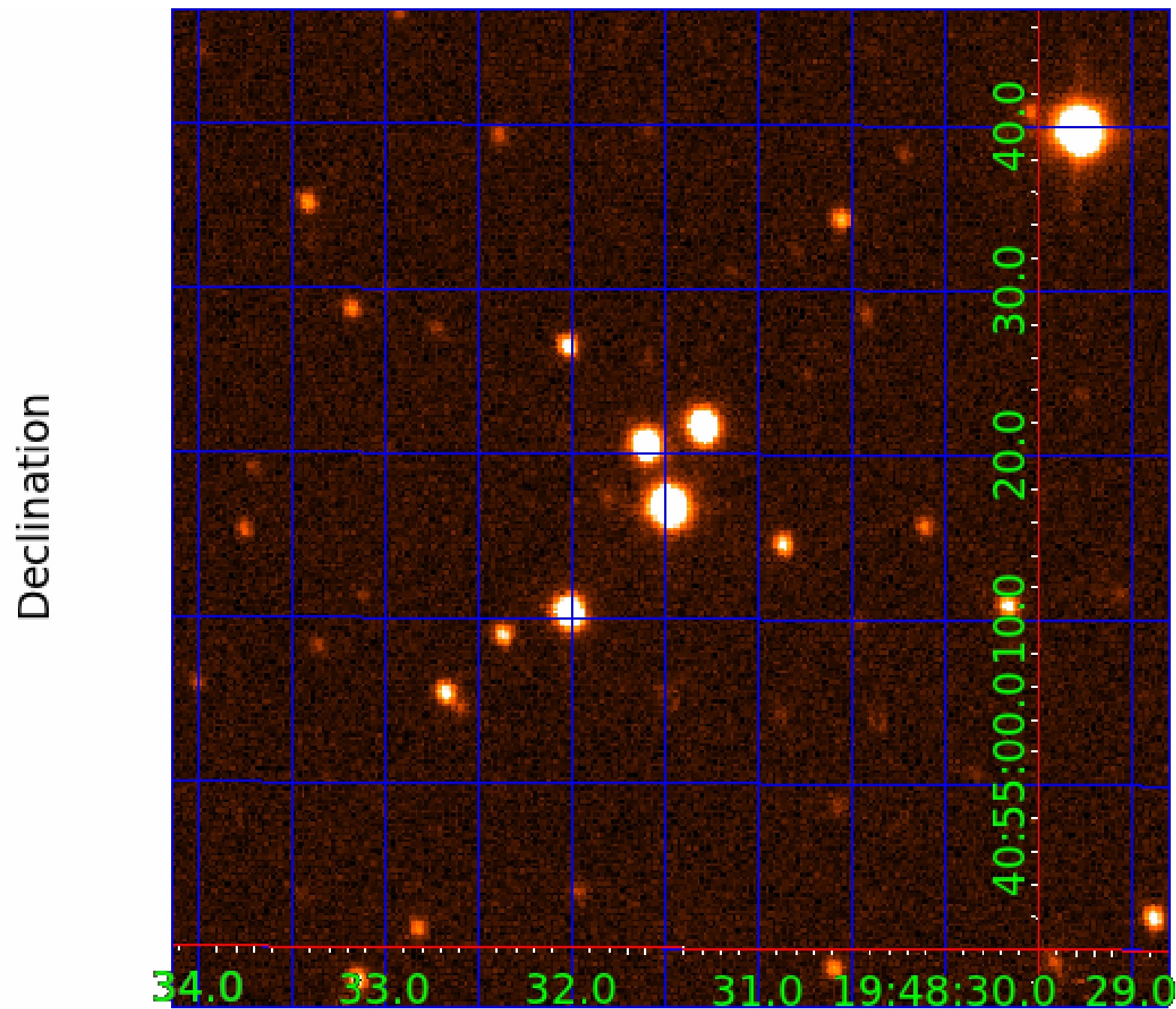
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fluxWeightedCentroids, Planet 1 of 7



UKIRT Image



KIC 005725851

Q1-17 DR25 TCE Parameters

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005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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

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

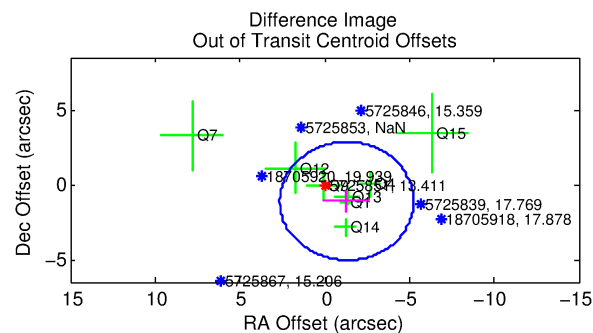
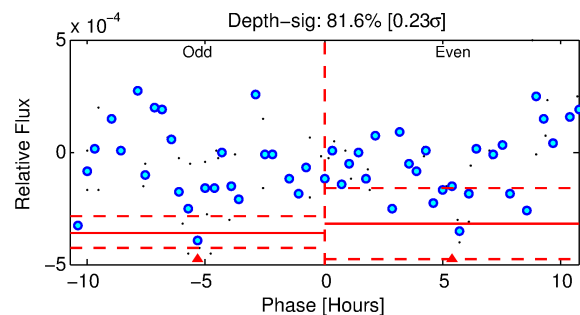
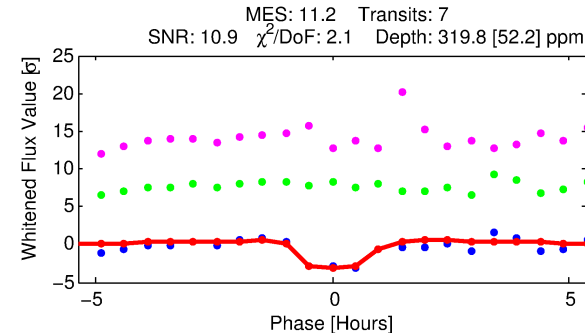
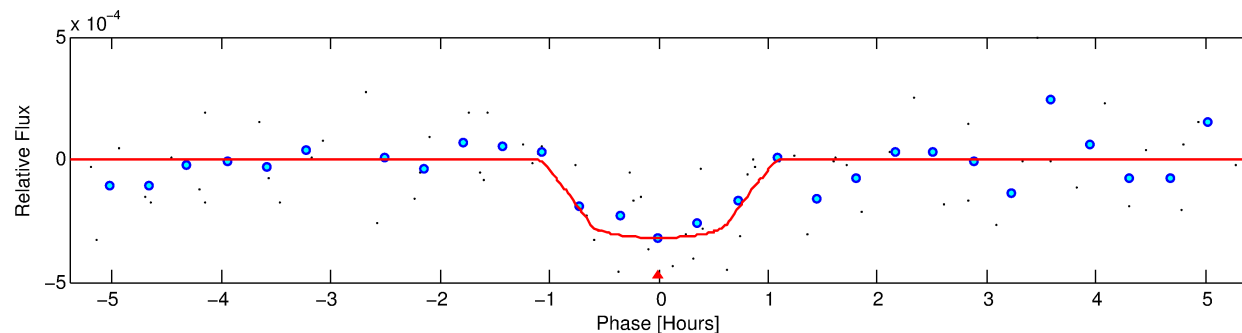
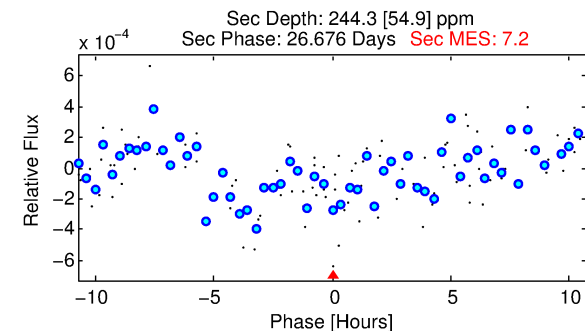
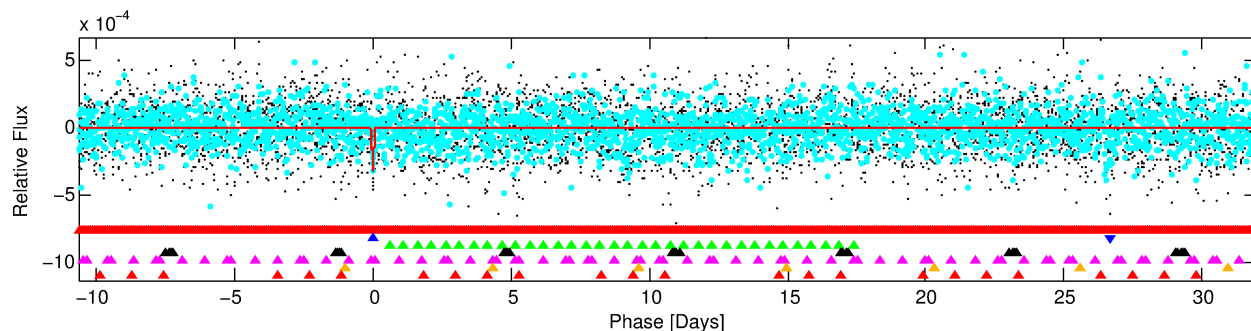
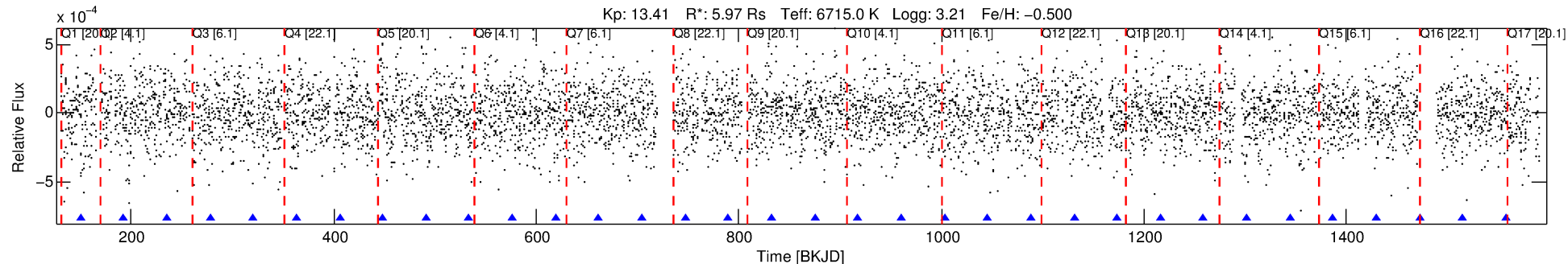
Ephemeris Match Information For 005725851-02

No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 2 of 7 Period: 42.651 d
KOI: K06620 Corr: No Ephemeris Match

Kp: 13.41 R*: 5.97 Rs Teff: 6715.0 K Logg: 3.21 Fe/H: -0.500



DV Fit Results:

Period = 42.65083 [0.00031] d
Epoch = 150.0204 [0.0065] BKJD
Rp/R* = 0.0184 [0.0132]
a/R* = 106.80 [441.03]
b = 0.83 [1.56]
Seff = 690.49 [576.87]
Teq = 1307 [273] K
Rp = 11.96 [10.59] Re
a = 0.3066 [0.1556] AU
Ag = 88.37 [148.08] [0.59σ]
Teffp = 6196 [2271] K [2.14σ]

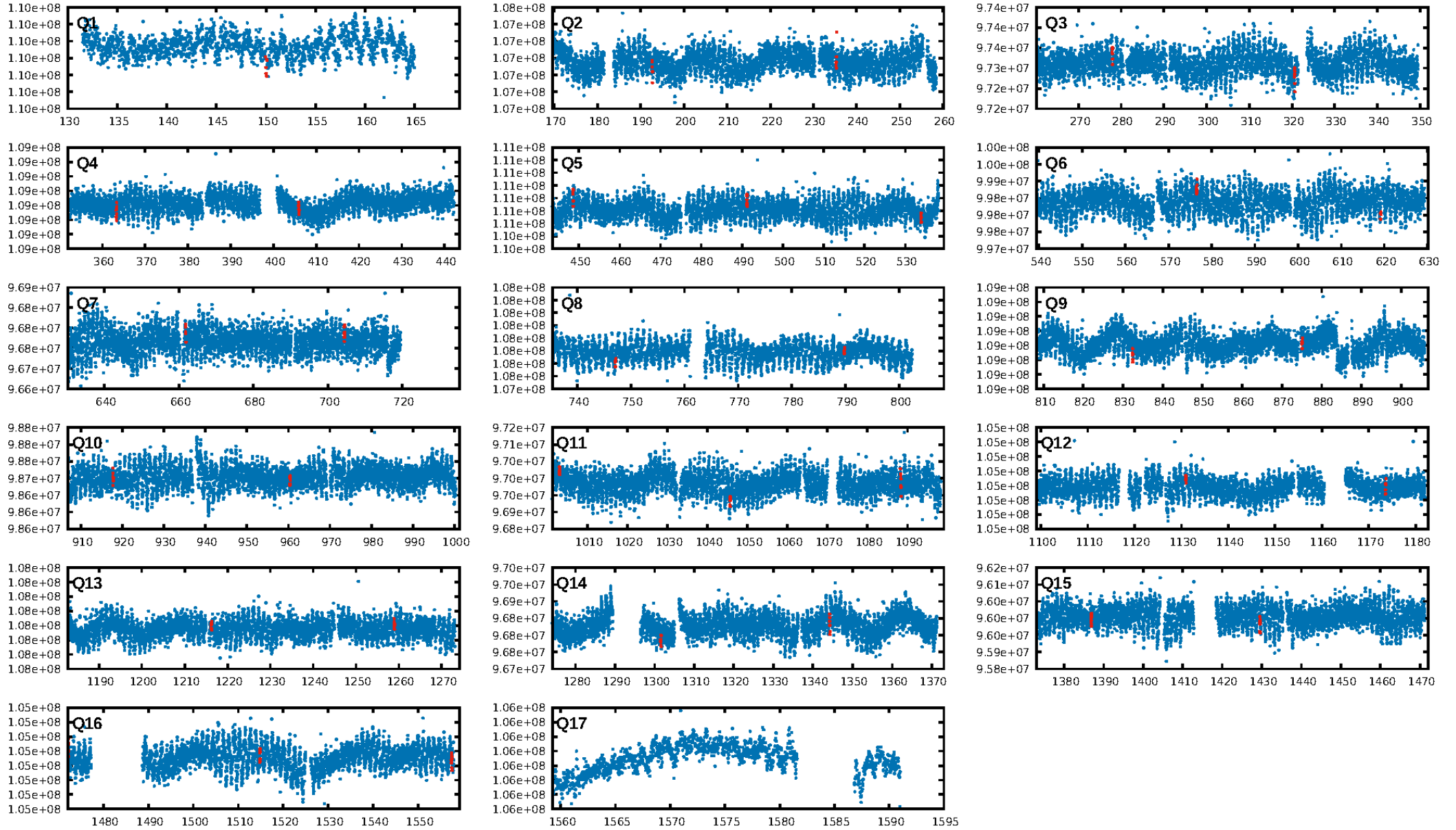
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [228.30σ]
LongPeriod-sig: 99.7% [2.98σ]
ModelChiSquare2-sig: 3.1%
ModelChiSquareGof-sig: 80.6%
Bootstrap-pfa: 4.24e-10
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: -5.769
Centroid-sig: 12.1%
Centroid-so: 0.786 arcsec [1.46σ]
OotOffset-rm: 1.699 arcsec [1.29σ]
OotOffset-st: 1/2/2/3 [8]
KicOffset-rm: 1.525 arcsec [1.19σ]
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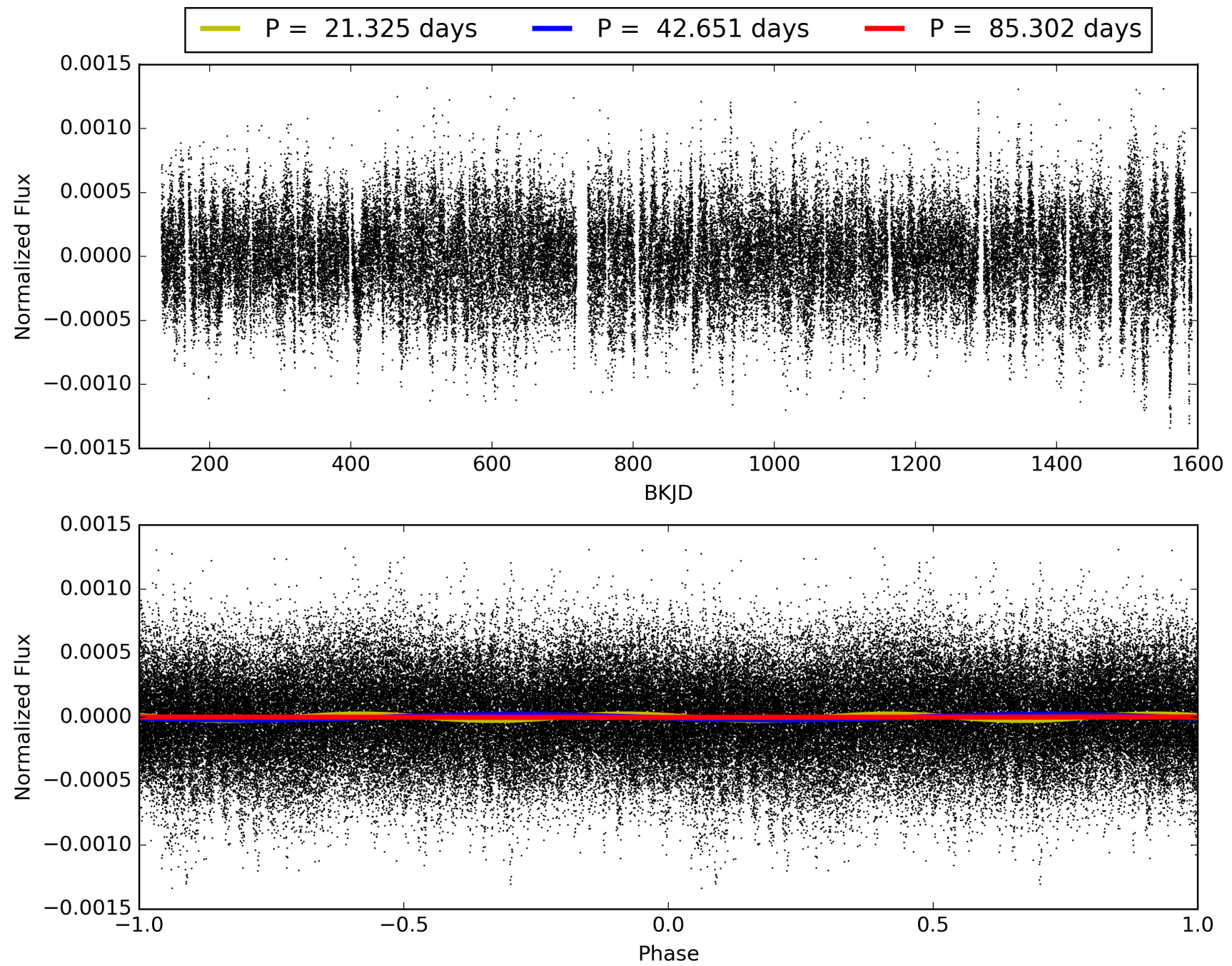
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This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 005725851-02, PDC Light Curves

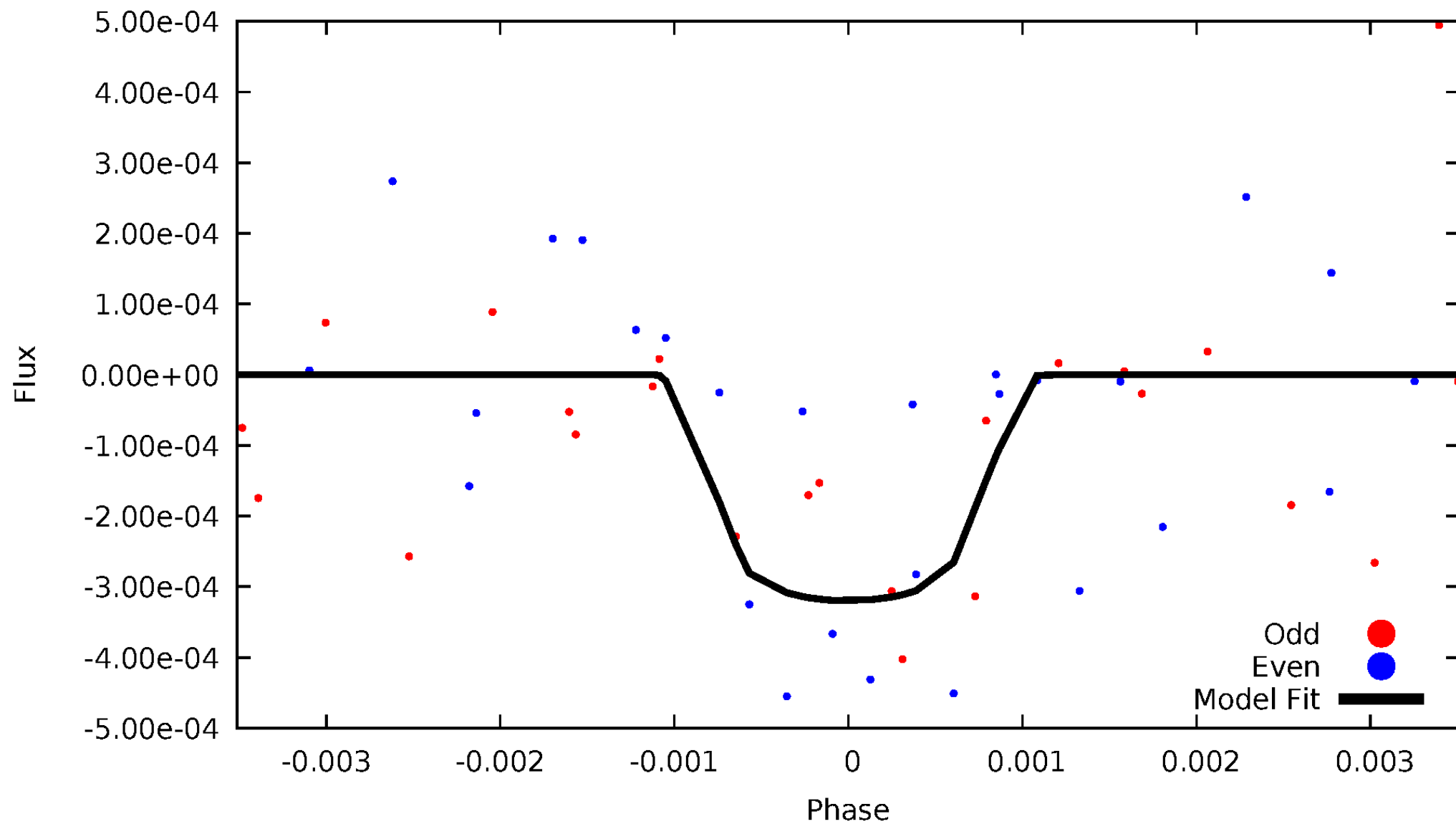


TCE 005725851-02



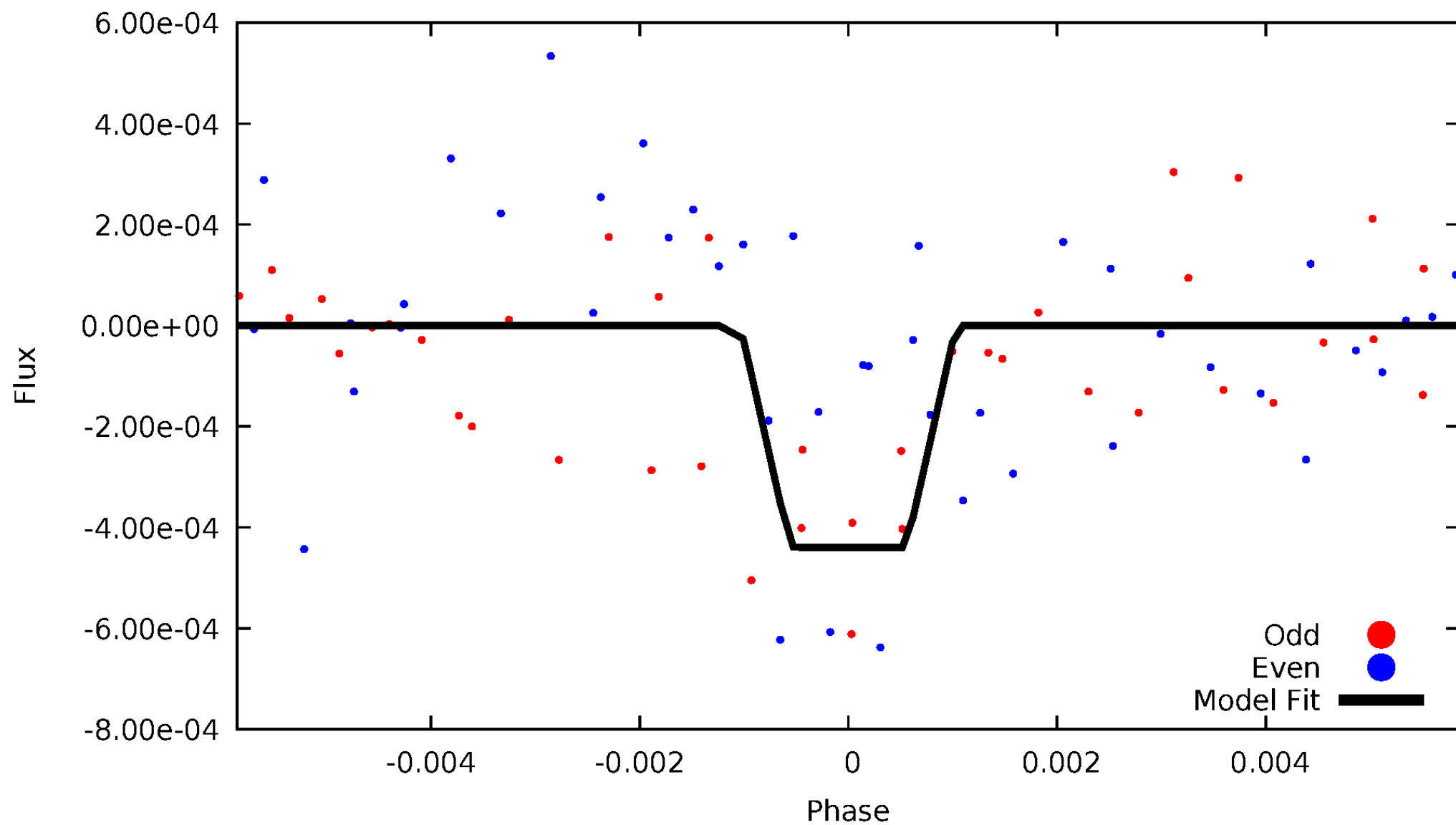
DV Odd/Even

TCE 005725851-02



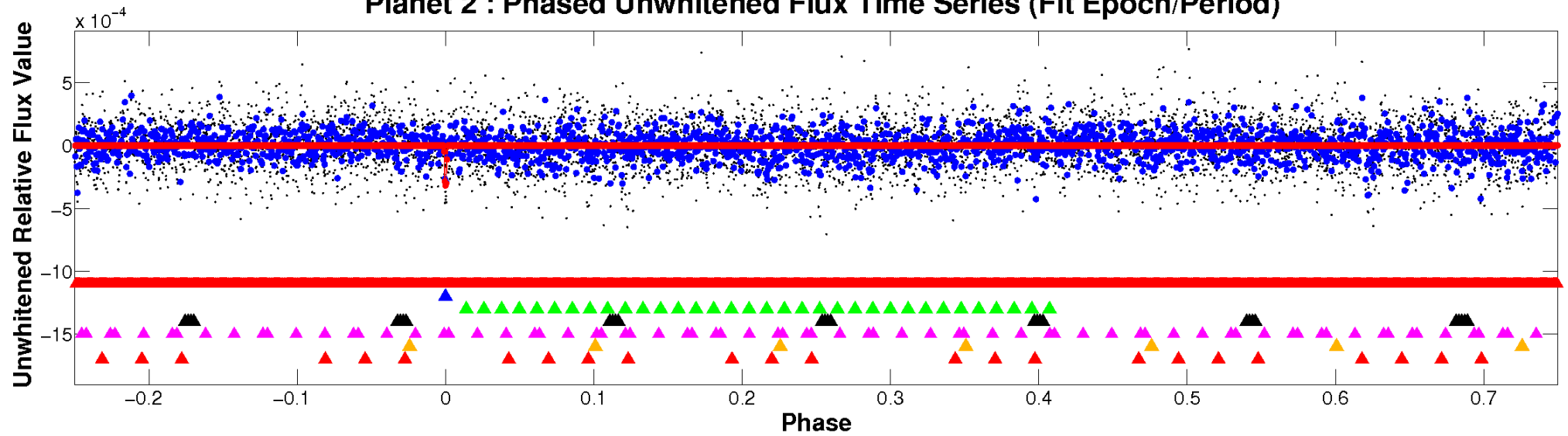
ALT Odd/Even

TCE 005725851-02

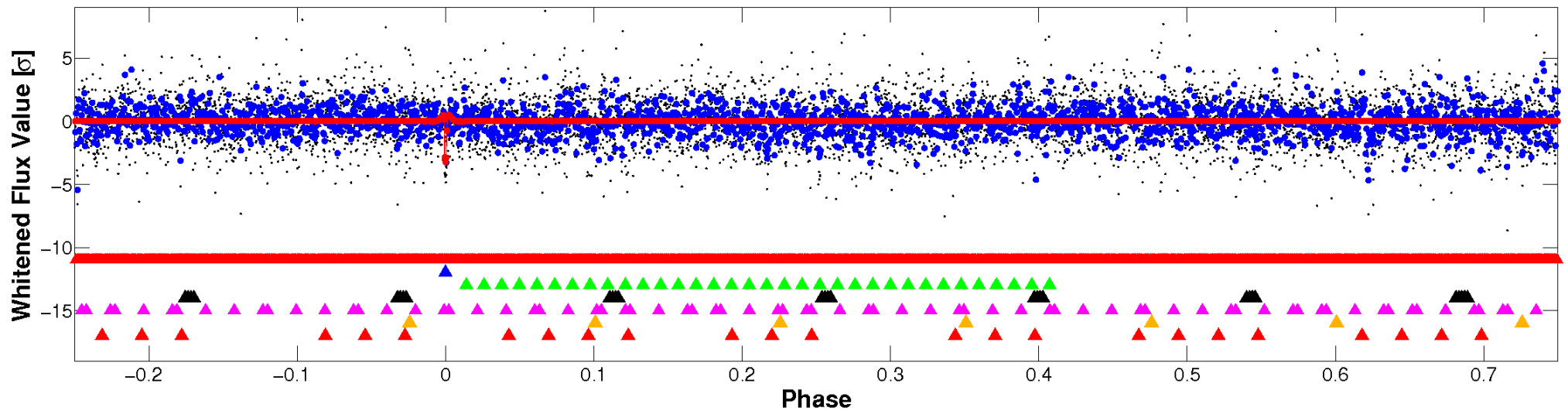


Non-Whitened Vs. Whitened Light Curve

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

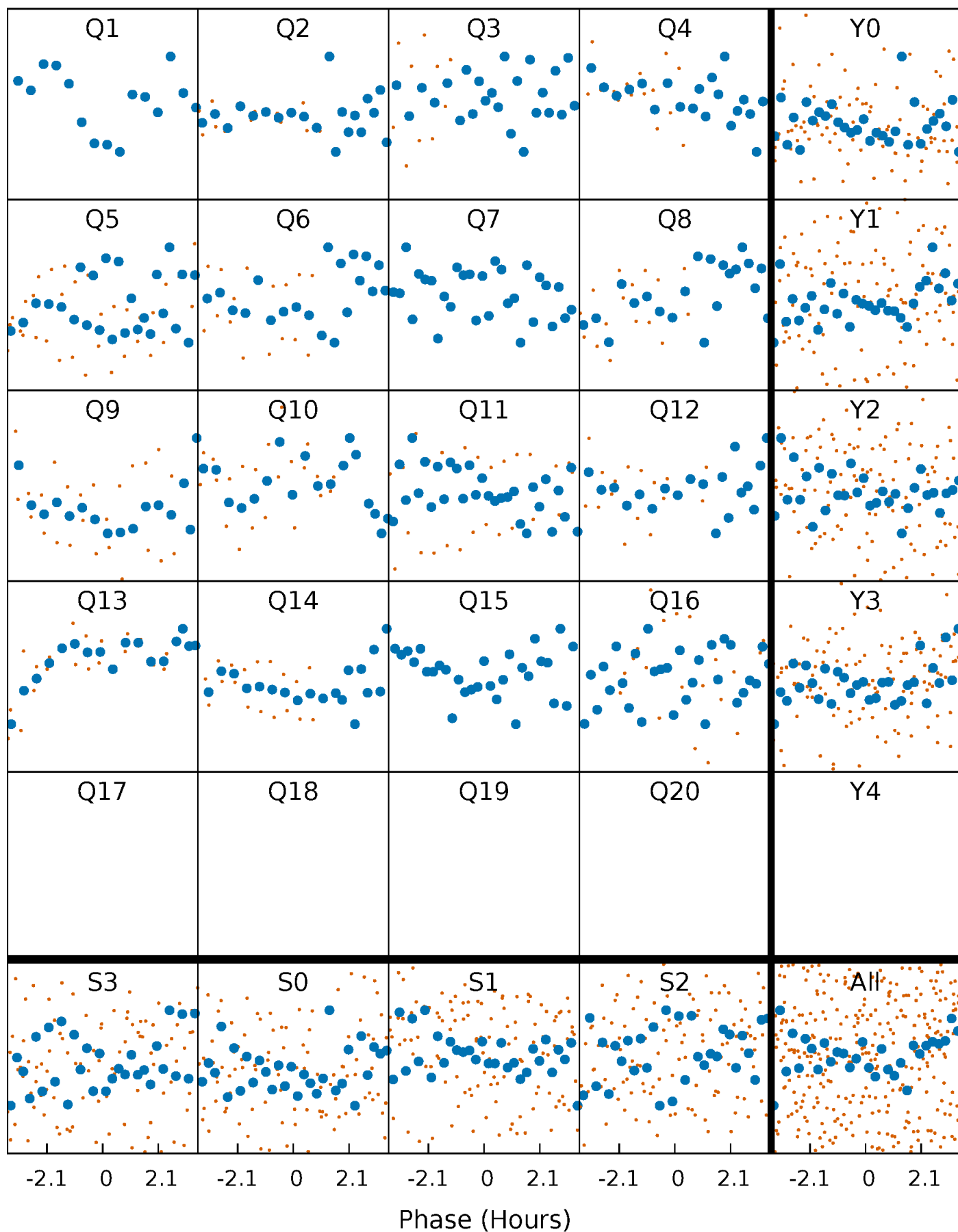


Planet 2 : Phased Whitened Flux Time Series (Fit Epoch/Period)



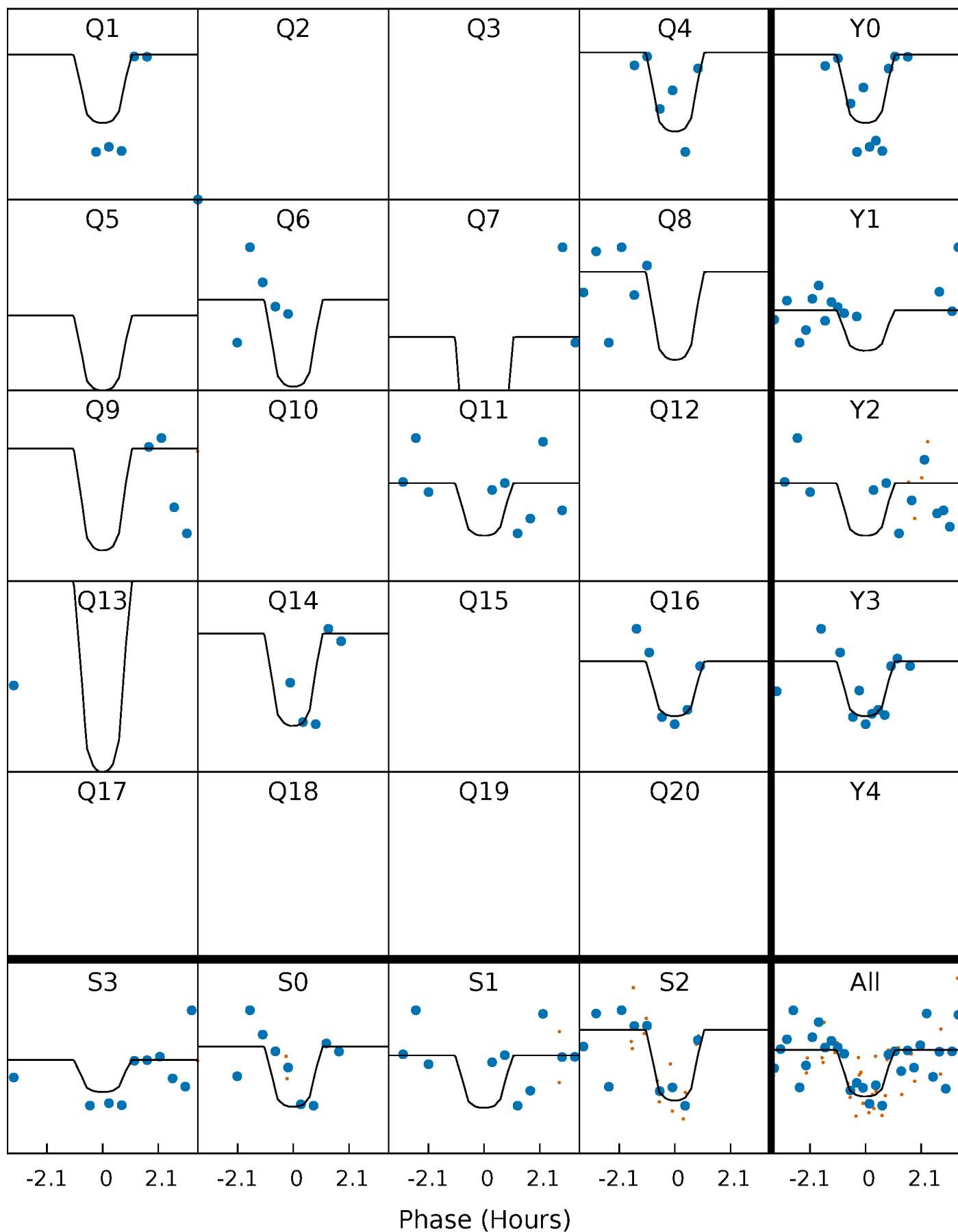
PDC Quarter-Phased Transit Curves

TCE 005725851-02 P= 42.650829 Days $T_0=150.020389$ (BKJD)



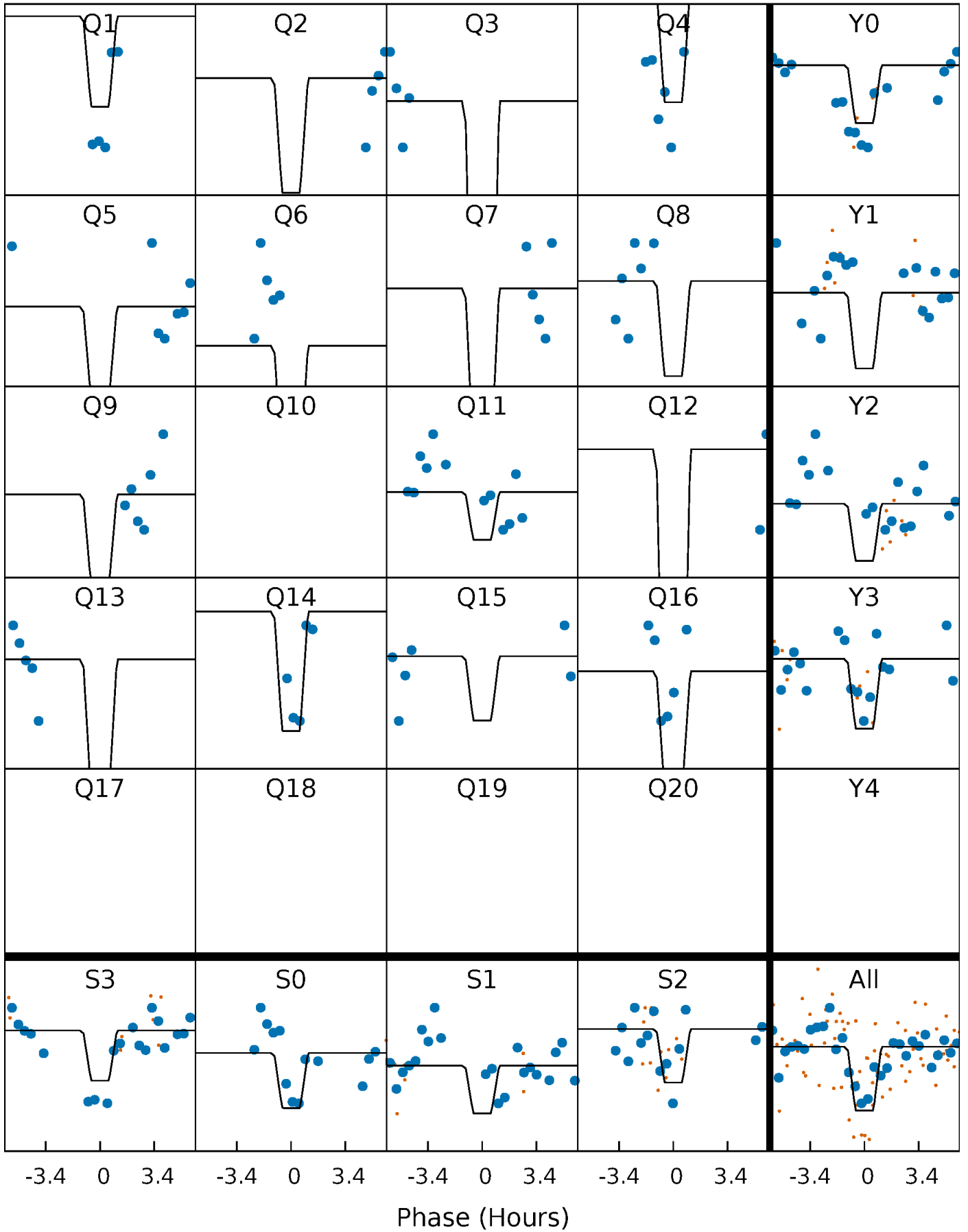
DV Quarter-Phased Transit Curves

TCE 005725851-02 P= 42.650829 Days $T_0=150.020389$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

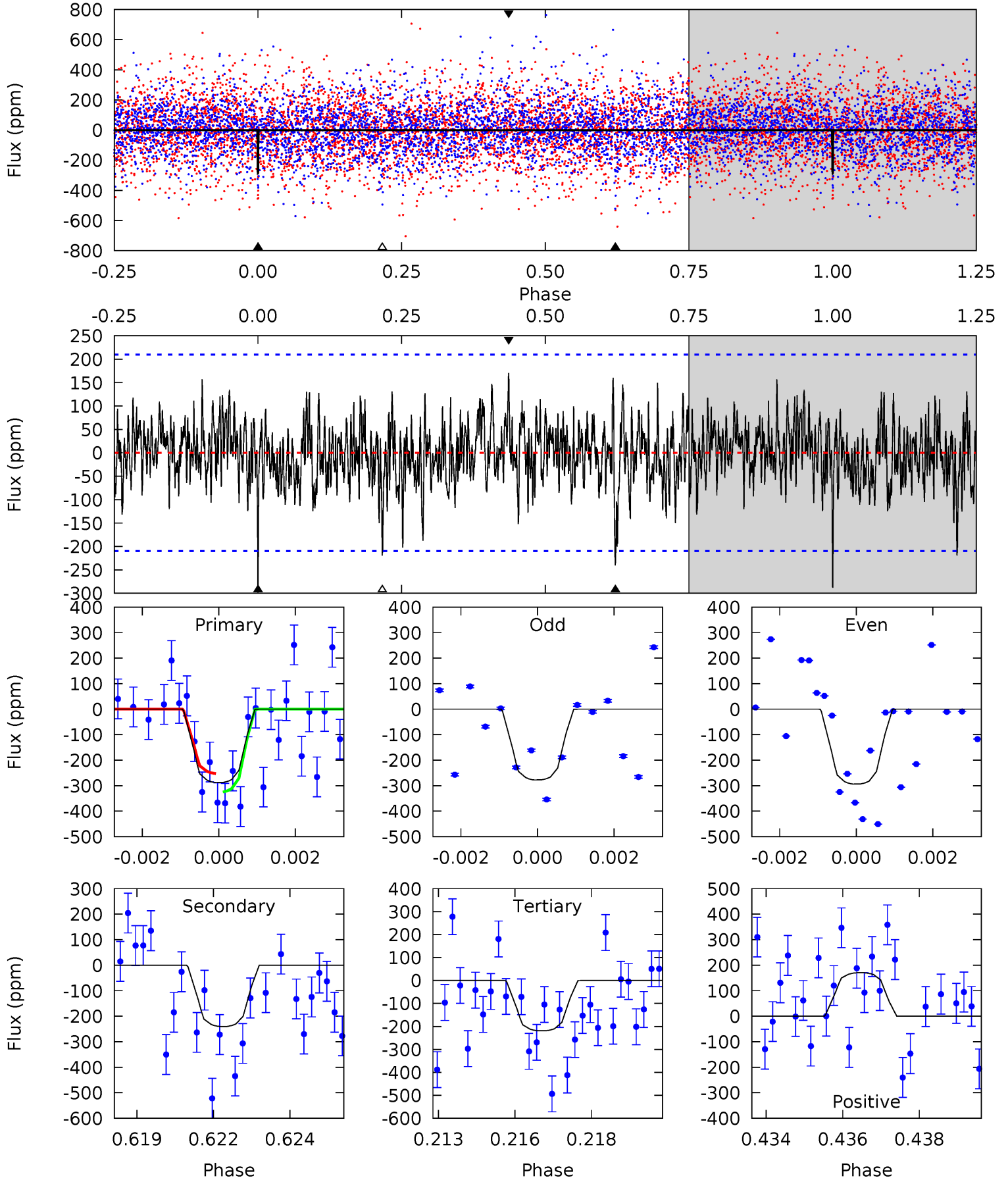
TCE 005725851-02 P= 42.650688 Days $T_0=150.033156$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-02, P = 42.650829 Days, E = 107.369560 Days

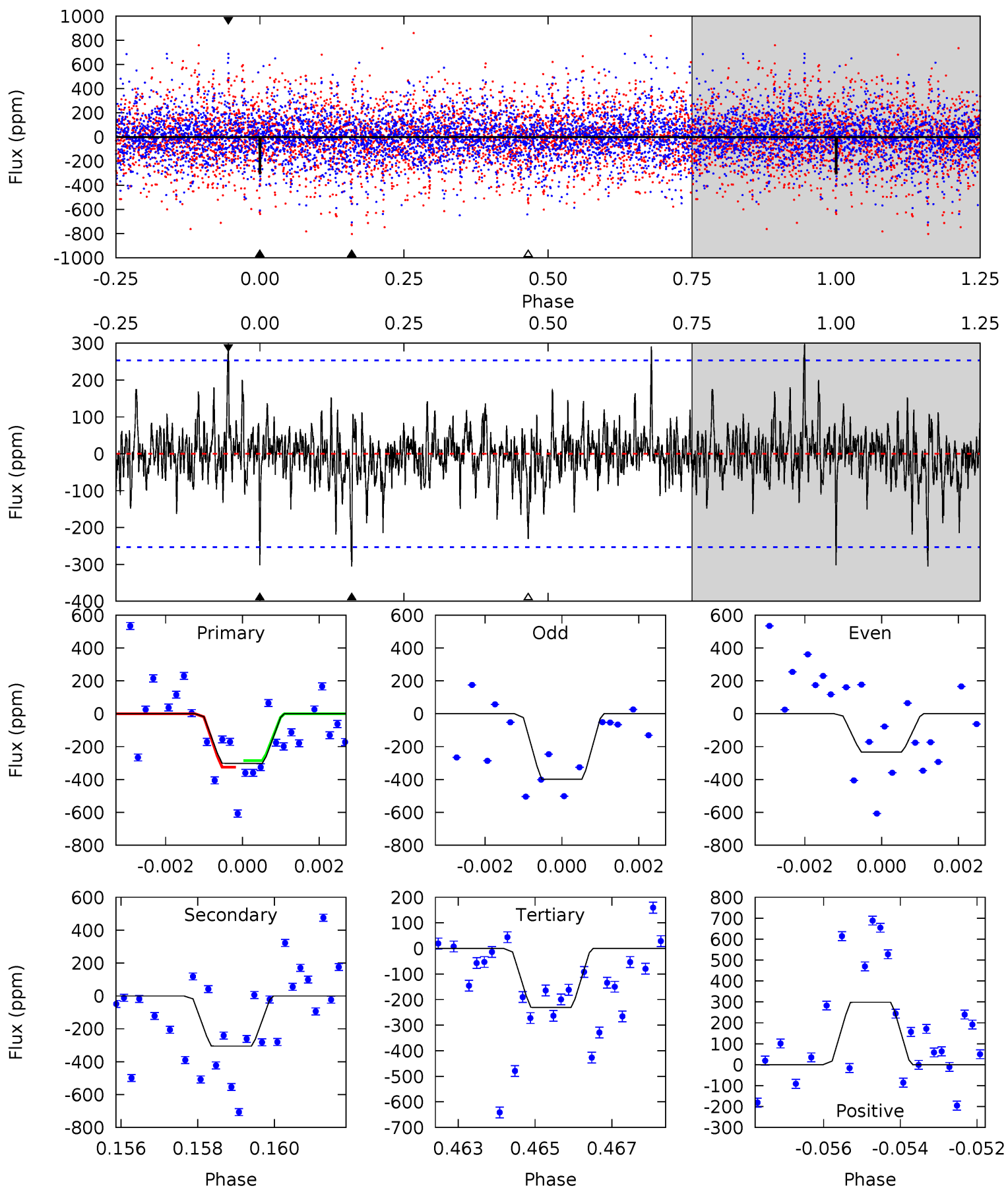
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.28	6.08	5.54	4.31	5.30	3.05	1.40	1.75	2.97	0.54	1.77	0.19	0.87	0.37	0.91



Alt Model-Shift Uniqueness Test

005725851-02, P = 42.650688 Days, E = 107.382468 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.35	6.42	4.85	6.28	5.33	3.09	1.24	1.50	0.07	1.57	0.14	1.72	1.07	0.49	0.42



Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-02 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-240 ± 40	$11.34^{+8.75}_{-6.62}$	1768^{+150}_{-244}	5830^{+3907}_{-1158}	92^{+432}_{-62}
Alt.	-305 ± 48	$12.38^{+8.16}_{-6.67}$	1772^{+143}_{-215}	5934^{+3199}_{-1084}	98^{+345}_{-63}

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

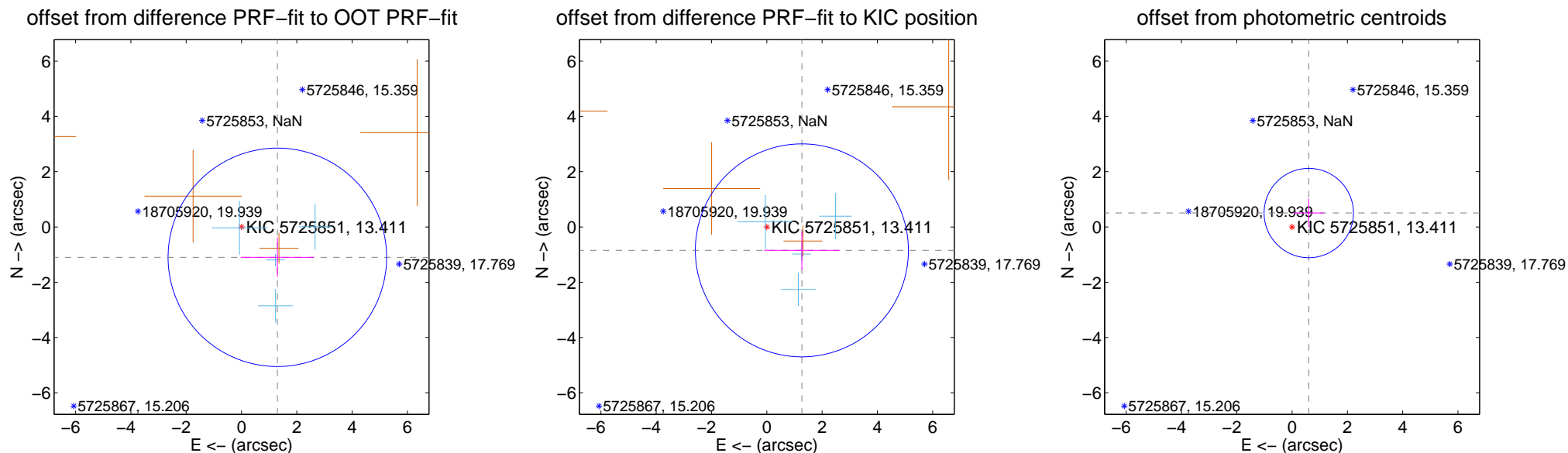
DV Centroid Data

Supplemental centroid analysis for 005725851-02. Kepler magnitude: 13.41. Transit SNR 10.95

There are 4 quarters with good PRF difference image offsets

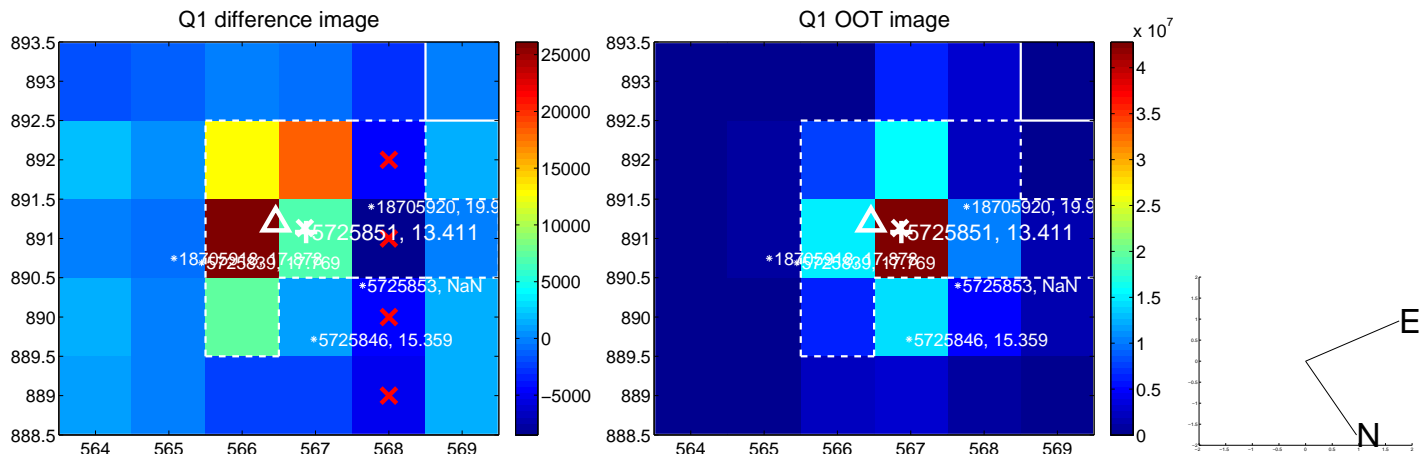
The direct PRF centroid is offset from the target star catalog position by about 0.96 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.699 ± 1.317	1.29	-1.296 ± 1.327	-1.098 ± 0.715
PRF-fit source offset from KIC position	1.525 ± 1.284	1.19	-1.269 ± 1.367	-0.846 ± 0.688
photometric centroid source offset	0.79 ± 0.54	1.46	-0.60 ± 0.55	0.50 ± 0.52

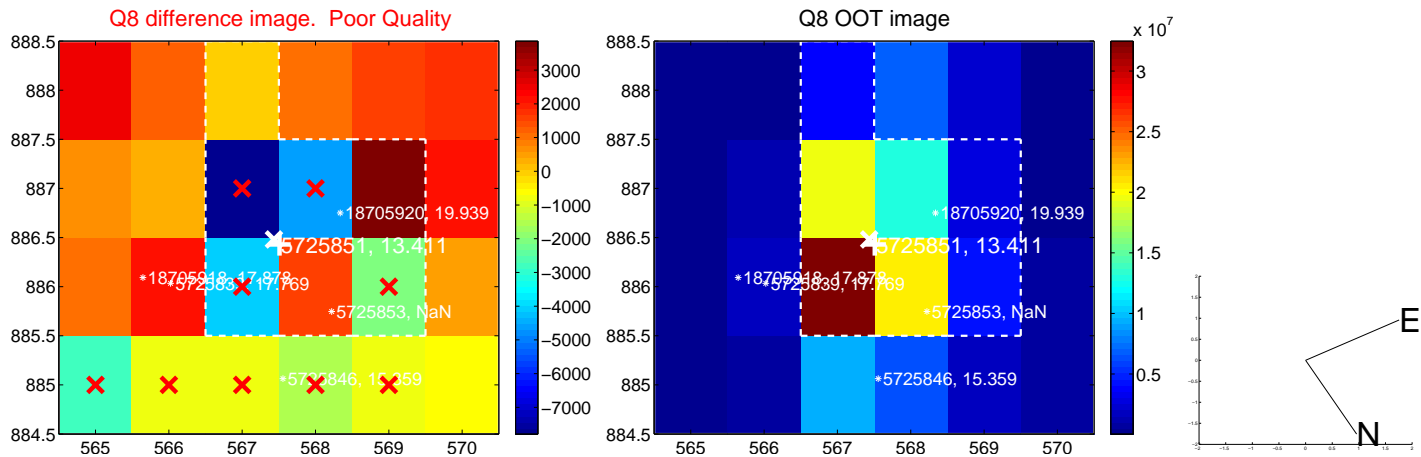
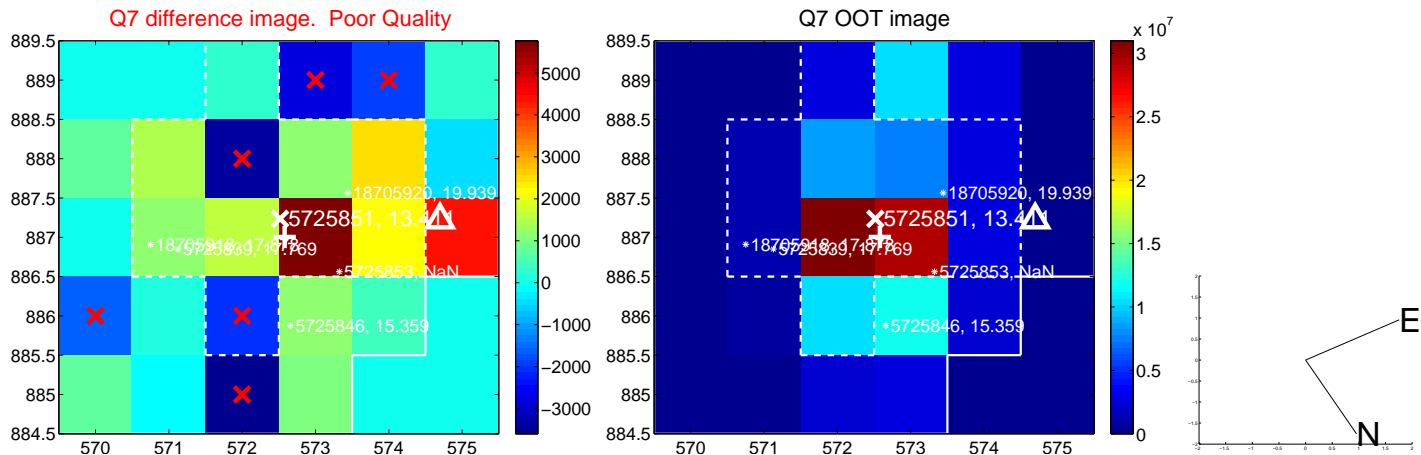
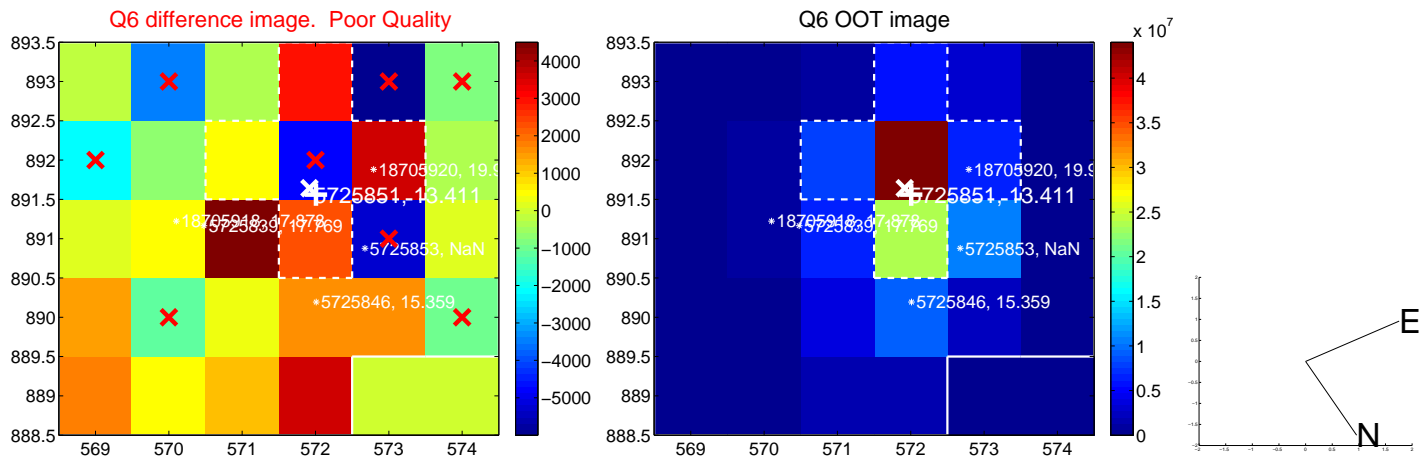
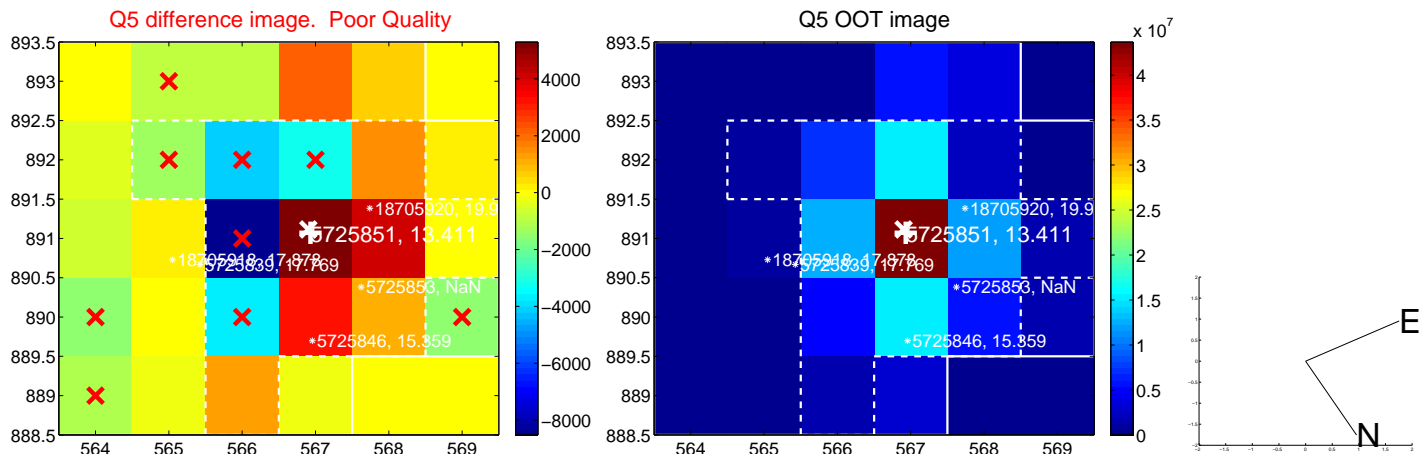


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets;** magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

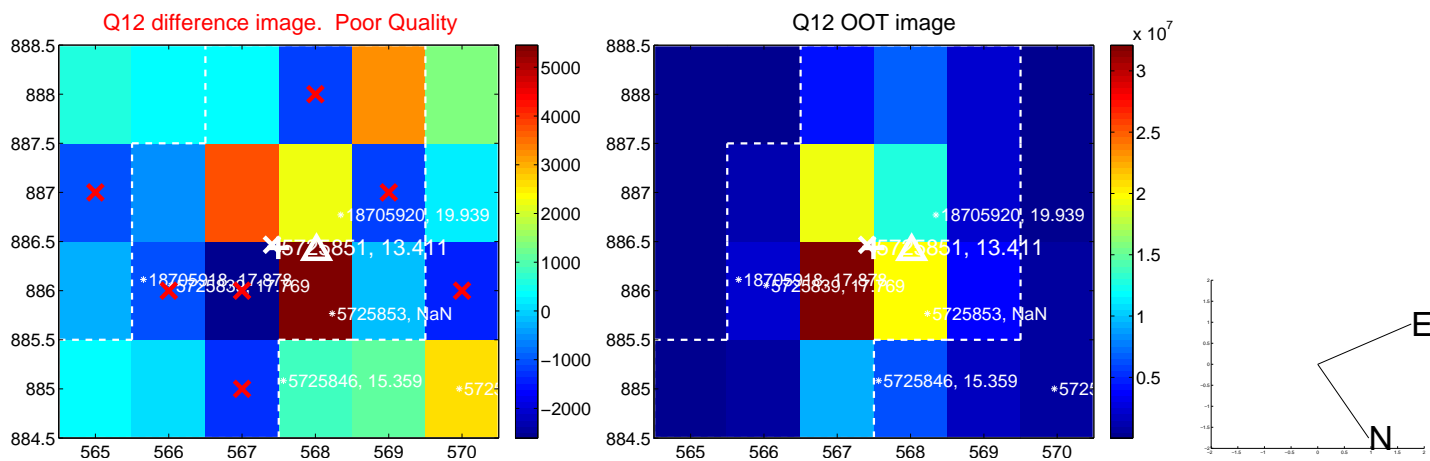
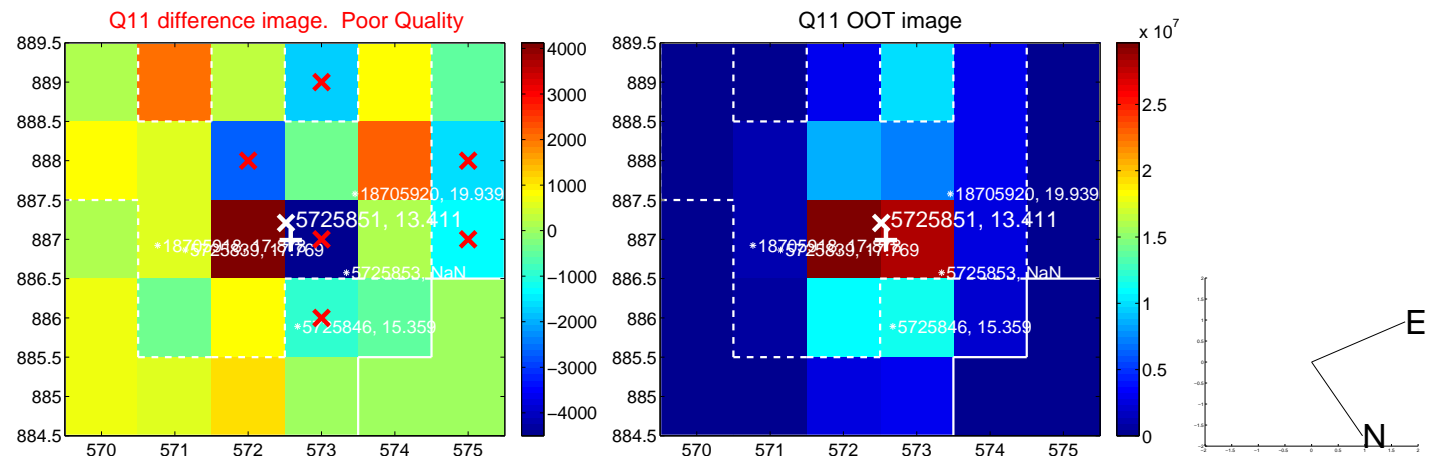
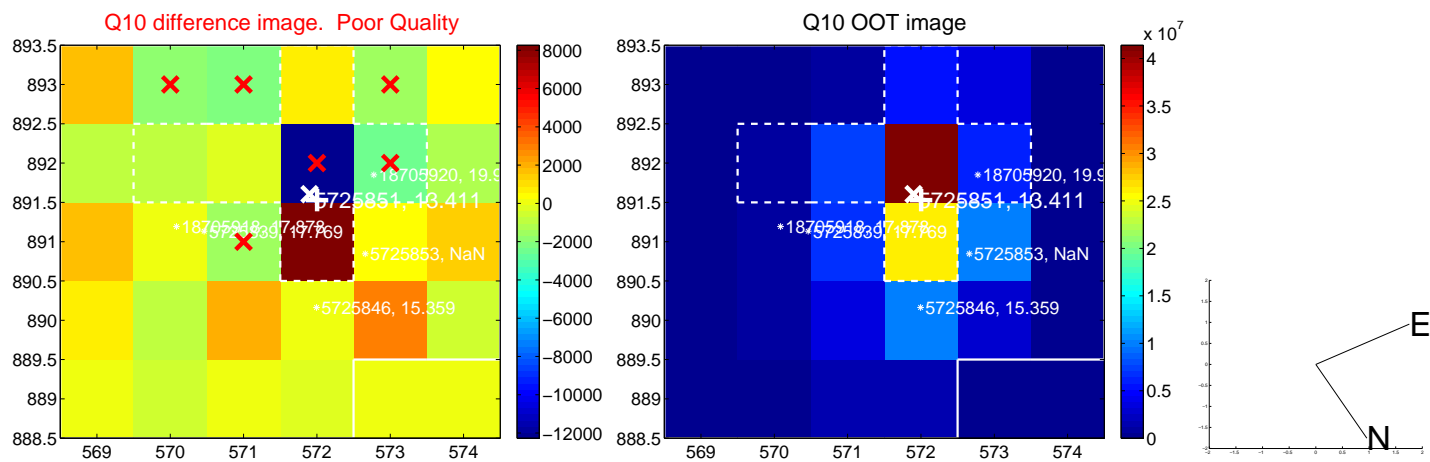
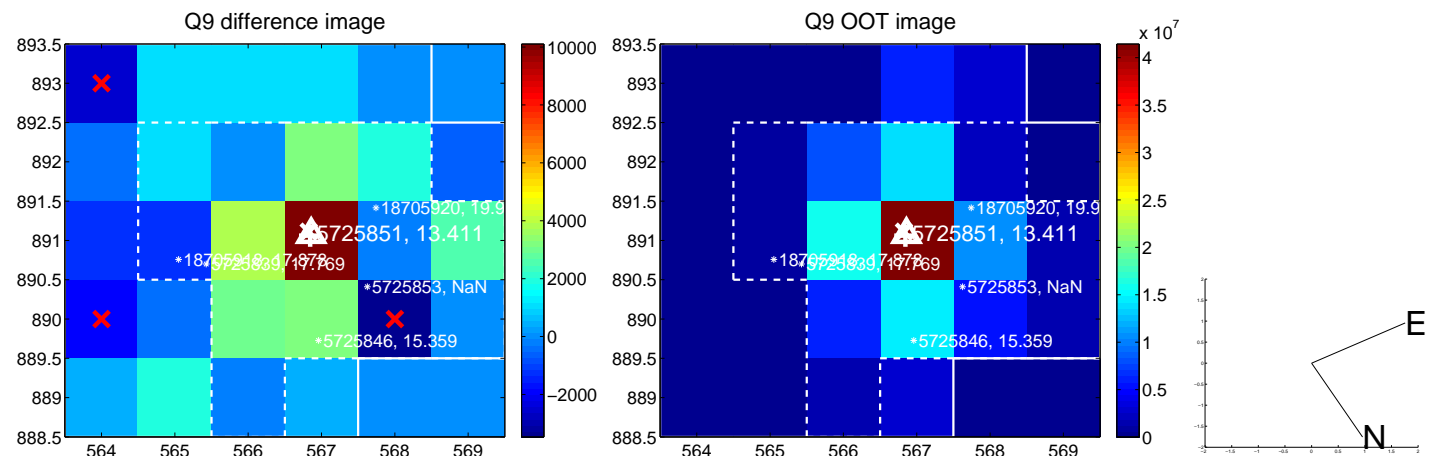
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



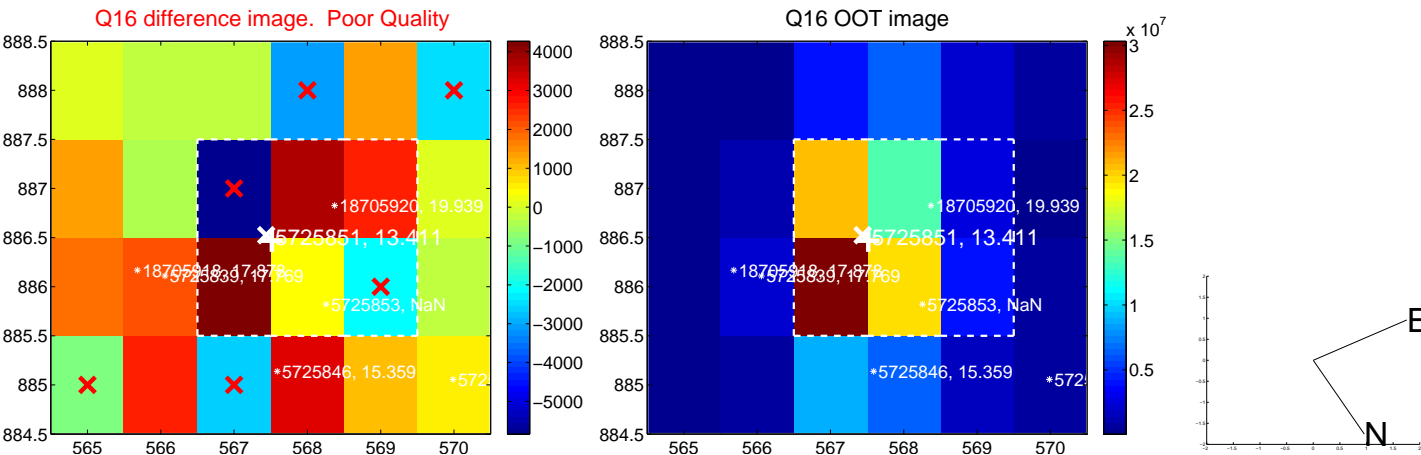
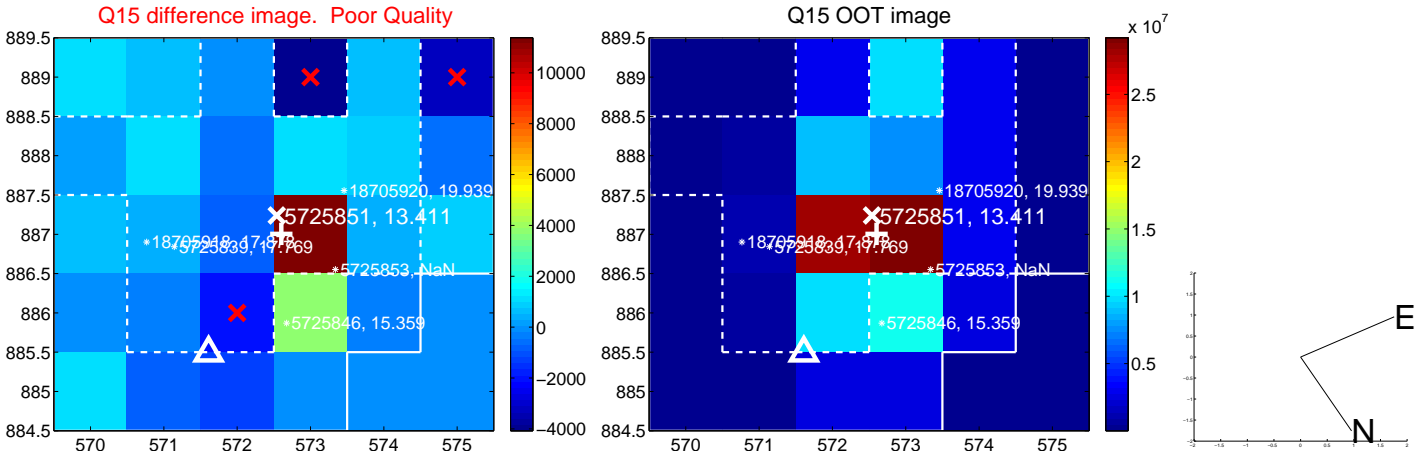
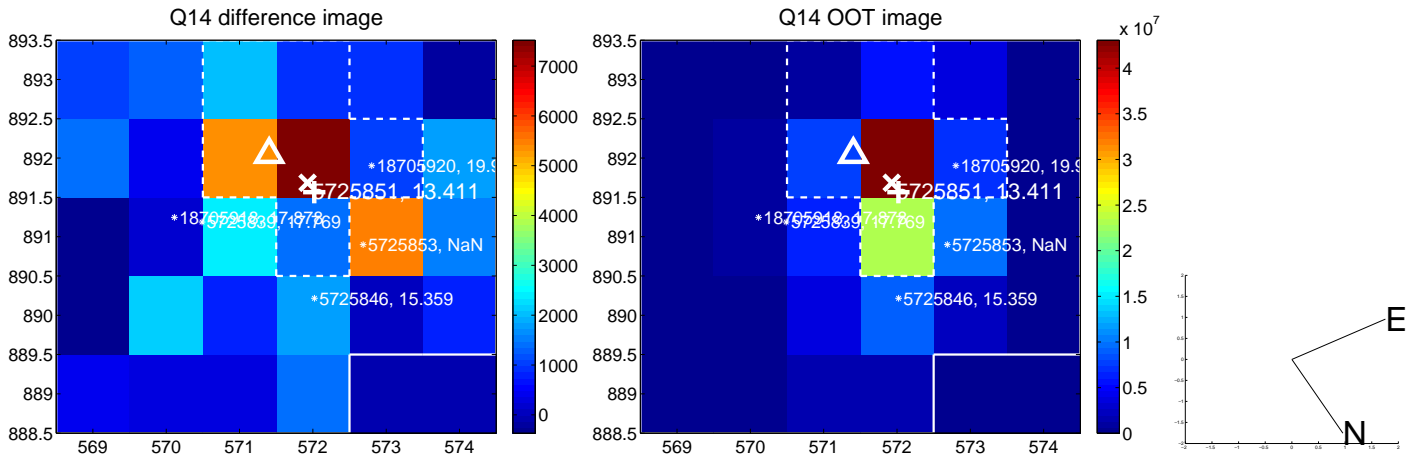
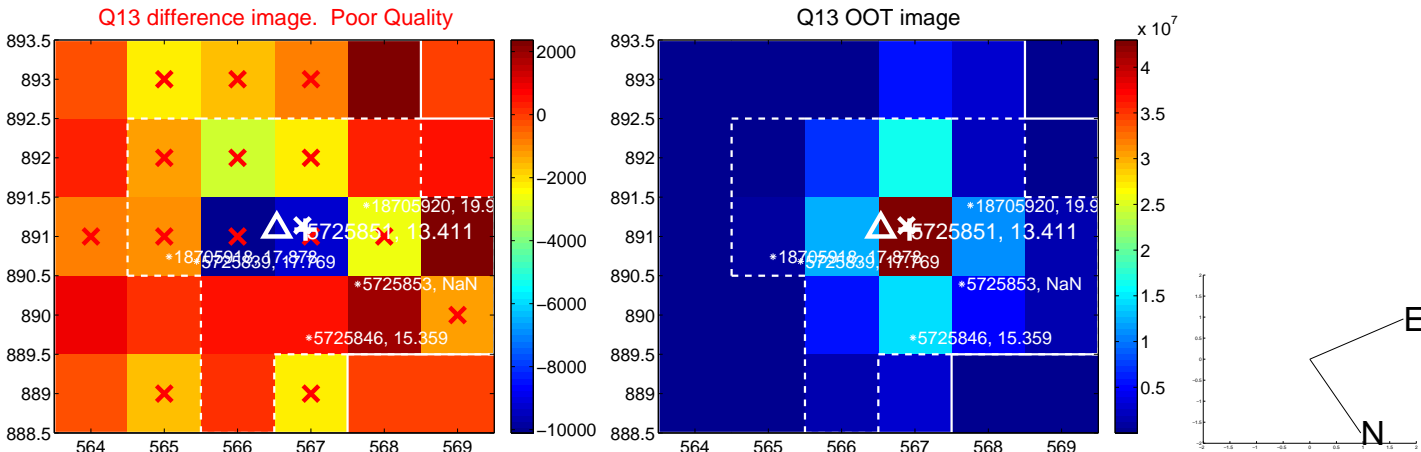
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



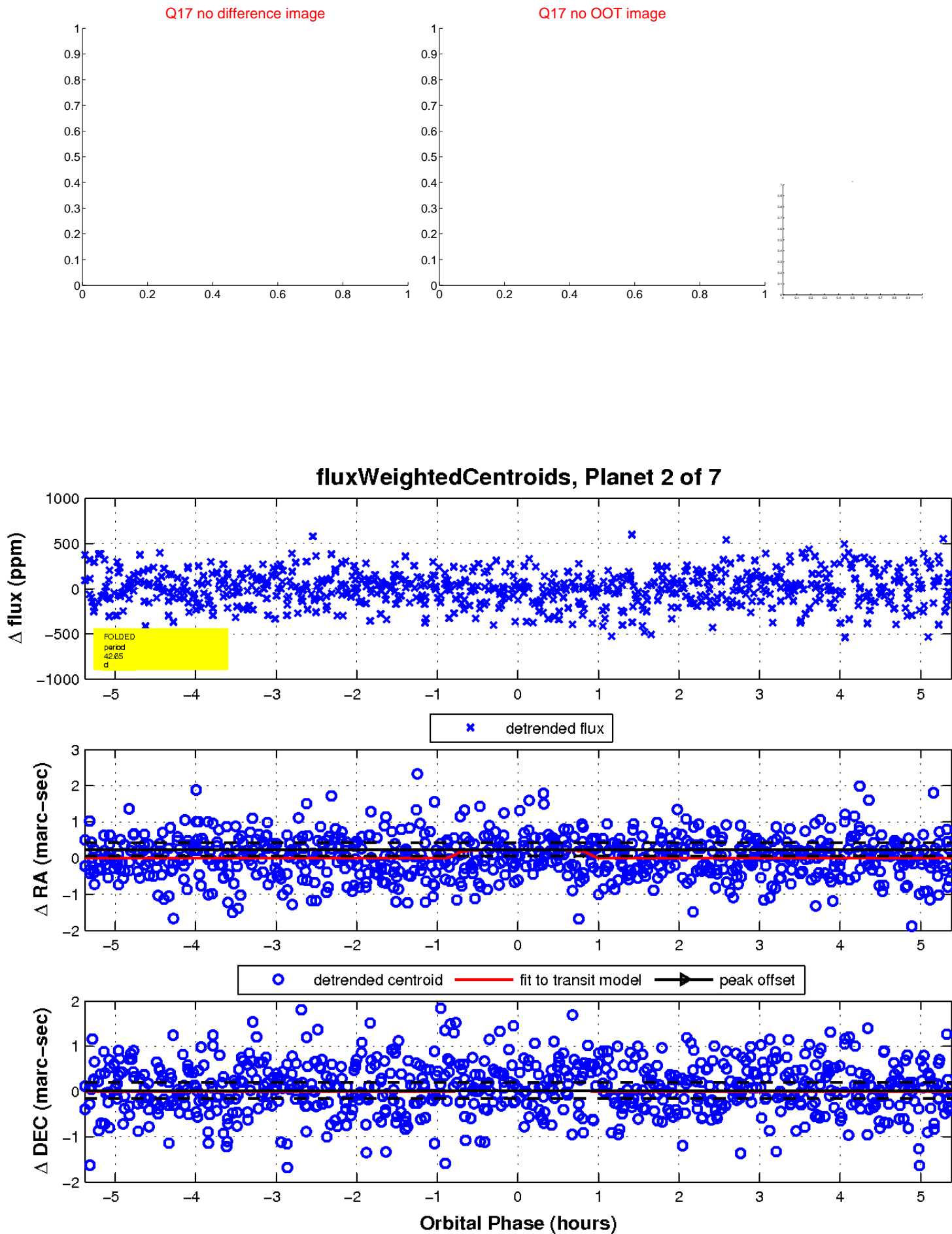
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



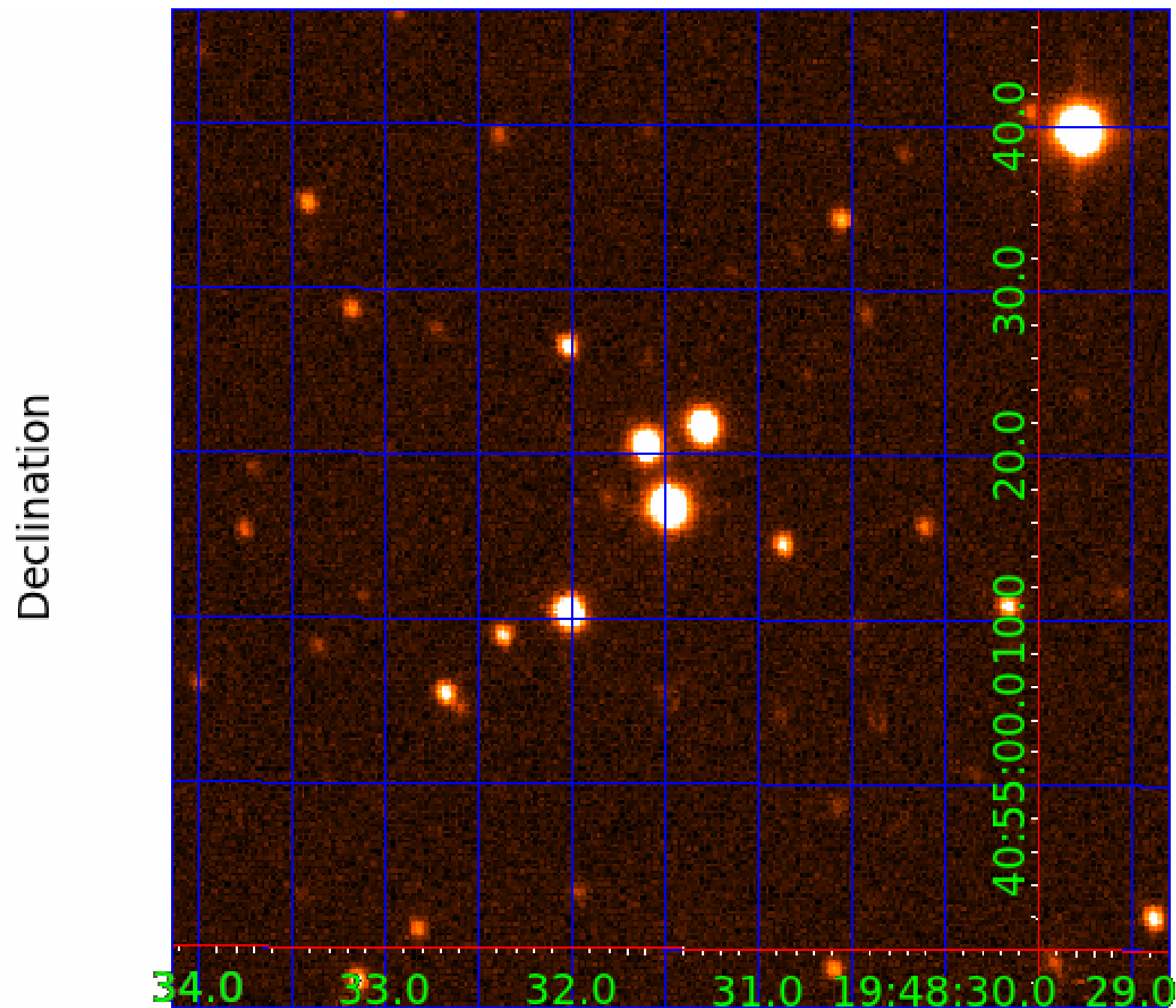
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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.

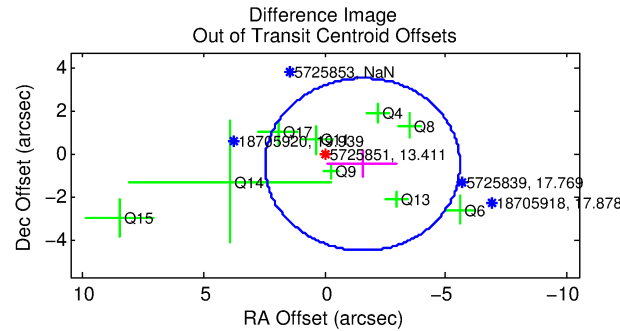
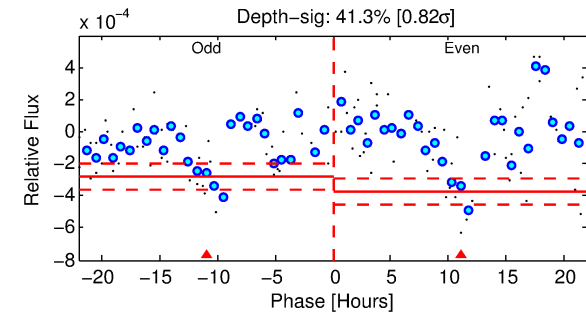
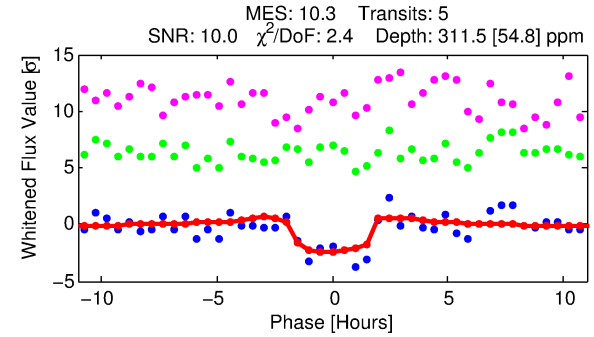
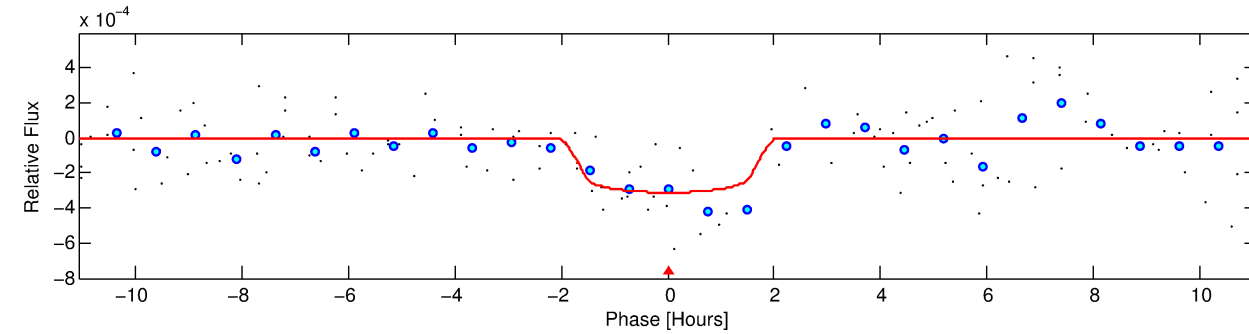
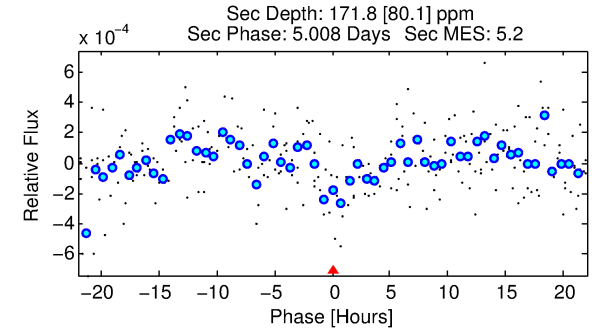
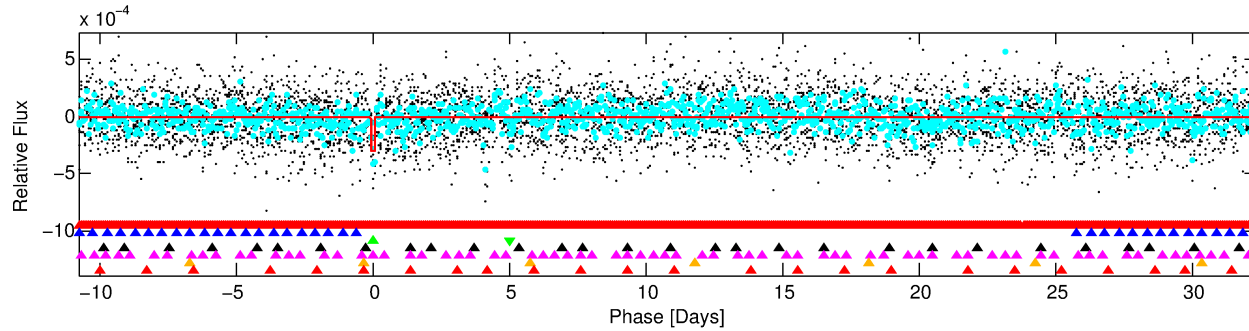
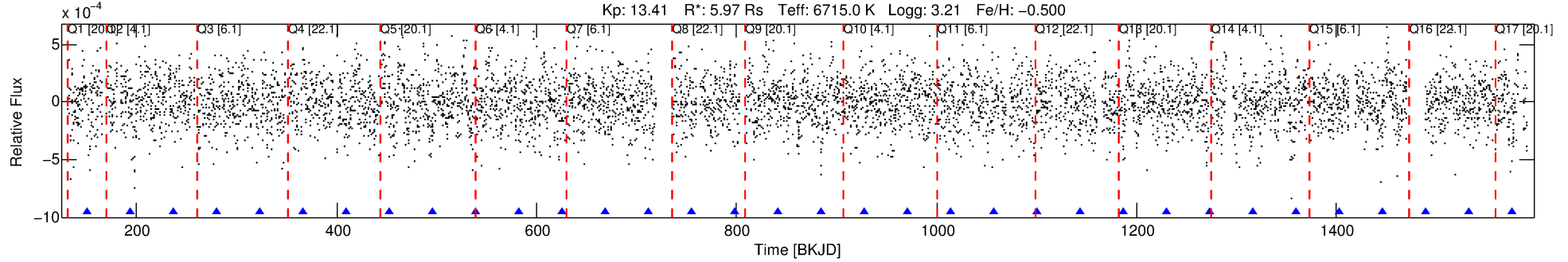
Ephemeris Match Information For 005725851-03

No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 3 of 7 Period: 43.159 d
KOI: K06620 Corr: No Ephemeris Match

Kp: 13.41 R*: 5.97 Rs Teff: 6715.0 K Logg: 3.21 Fe/H: -0.500



DV Fit Results:

Period = 43.15904 [0.00068] d
Epoch = 150.6188 [0.0155] BKJD
Rp/R* = 0.0181 [0.0160]
a/R* = 53.13 [268.96]
b = 0.83 [1.98]
Seff = 679.67 [567.83]
Teq = 1302 [272] K
Rp = 11.76 [12.03] Re
a = 0.3091 [0.1568] AU
Ag = 65.28 [130.95] [0.49 σ]
Teffp = 5722 [2624] K [1.68 σ]

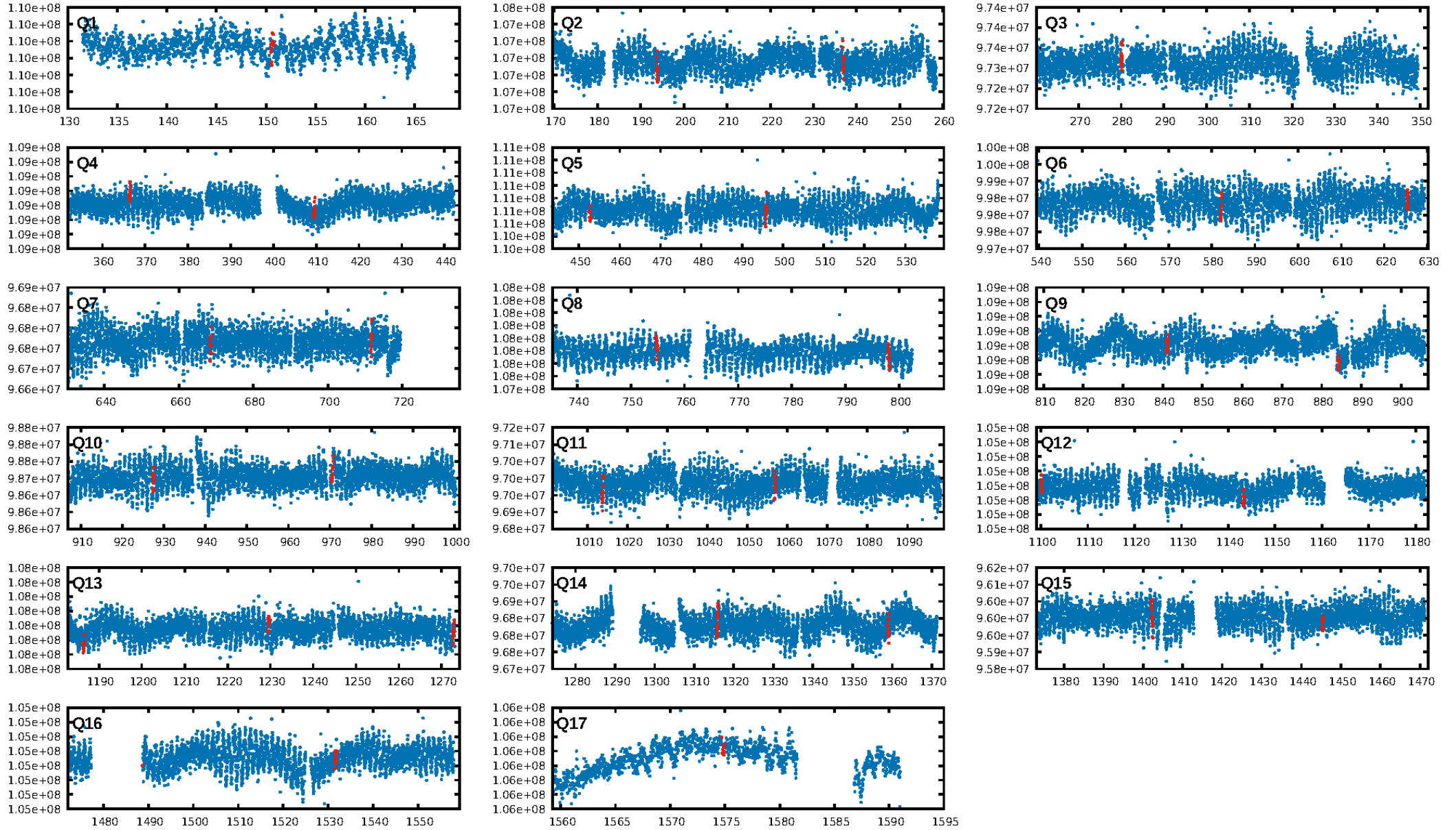
DV Diagnostic Results:

ShortPeriod-sig: 99.7% [2.98 σ]
LongPeriod-sig: 100.0% [35.67 σ]
ModelChiSquare2-sig: 33.9%
ModelChiSquareGof-sig: 48.8%
Bootstrap-pfa: 3.73e-09
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: 37.82
Centroid-sig: 0.0%
Centroid-so: 0.621 arcsec [1.49 σ]
OotOffset-rm: 1.636 arcsec [1.22 σ]
OotOffset-st: 2/2/2/3 [9]
KicOffset-rm: 1.511 arcsec [1.13 σ]
KicOffset-st: 2/2/2/3 [9]
DiffImageQuality-fgm: 0.44 [4/9]
DiffImageOverlap-fno: 0.18 [3/17]

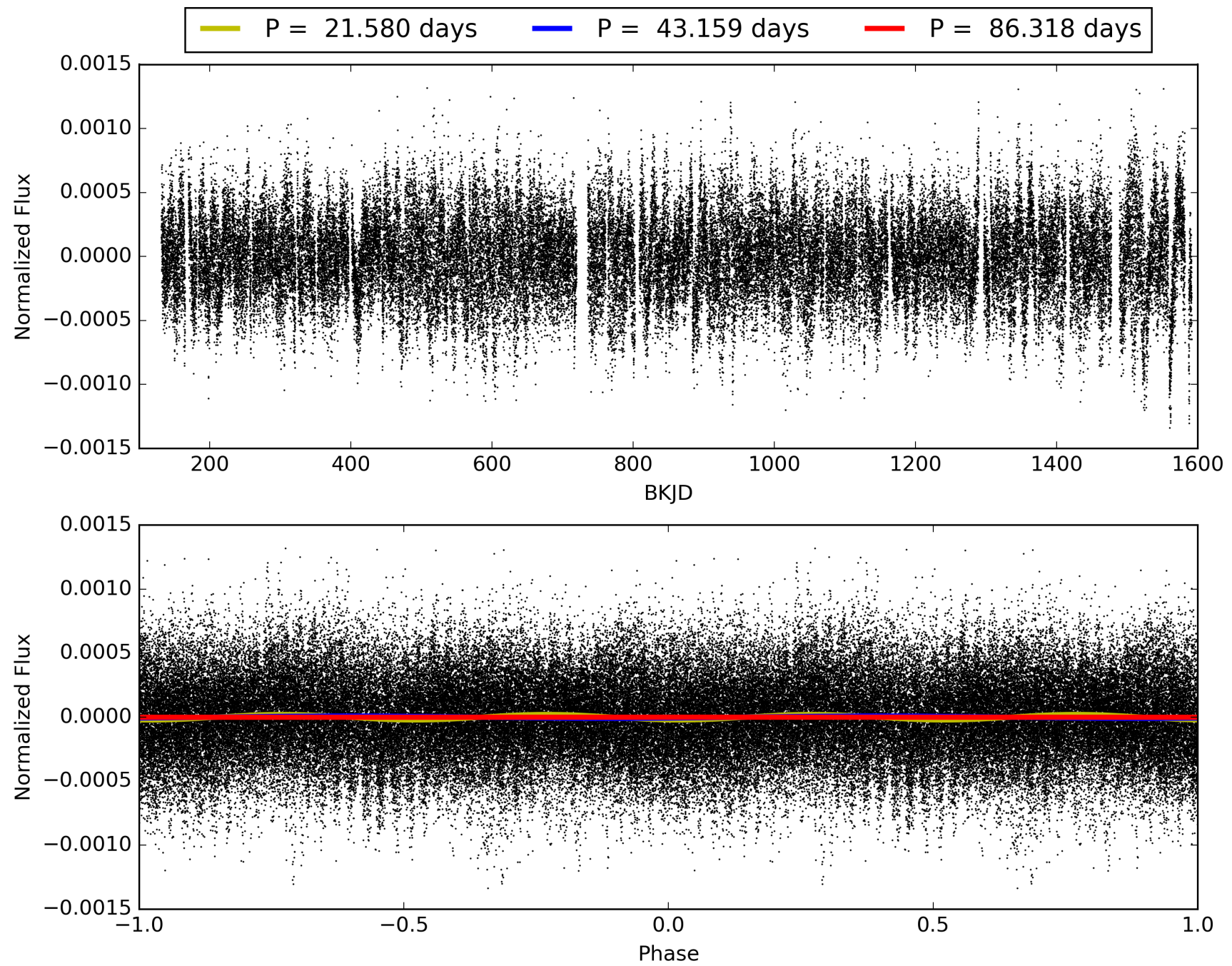
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:41:22 Z

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

TCE 005725851-03, PDC Light Curves

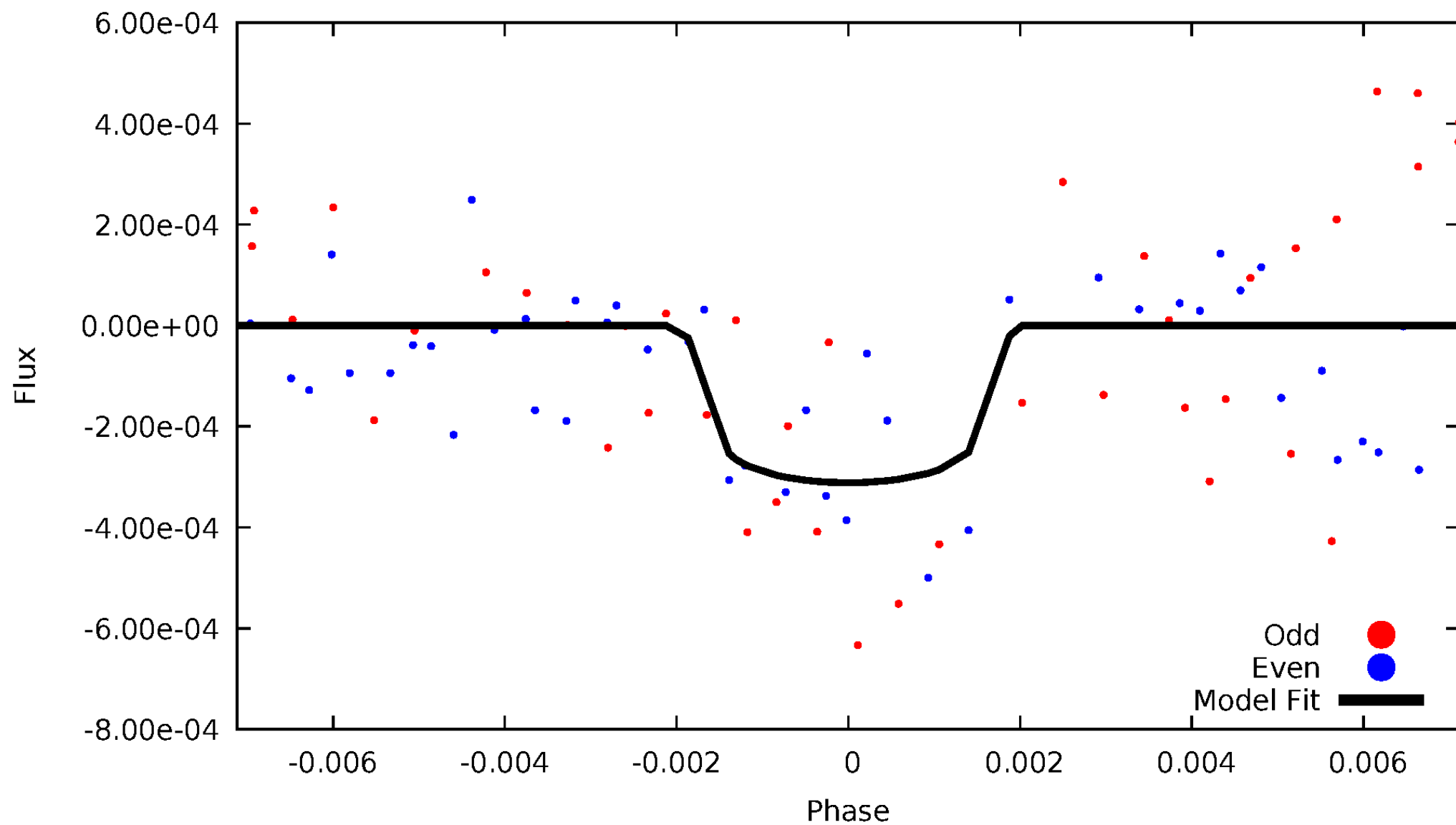


TCE 005725851-03



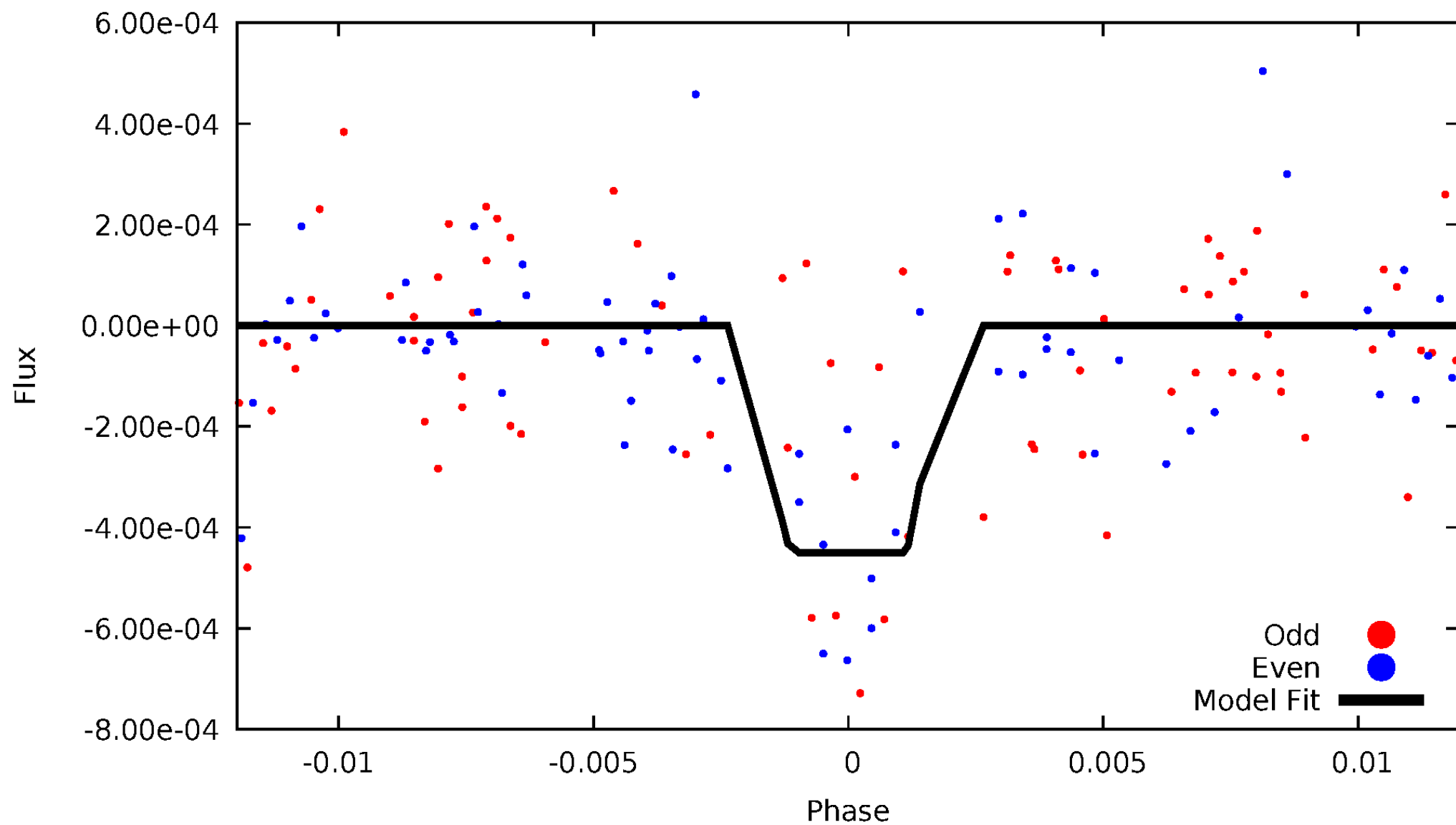
DV Odd/Even

TCE 005725851-03



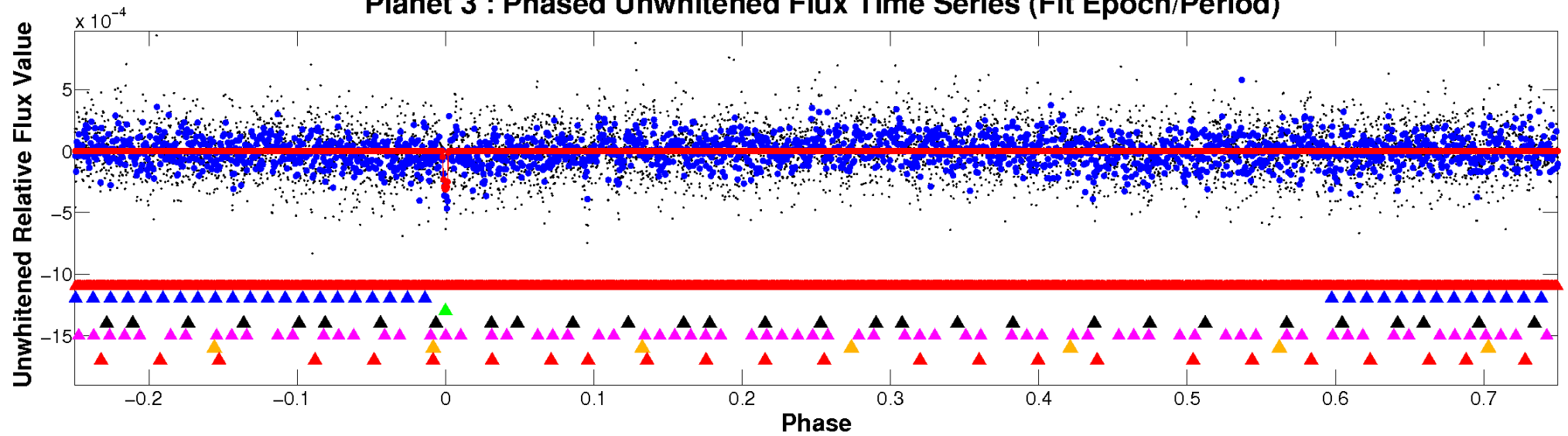
ALT Odd/Even

TCE 005725851-03

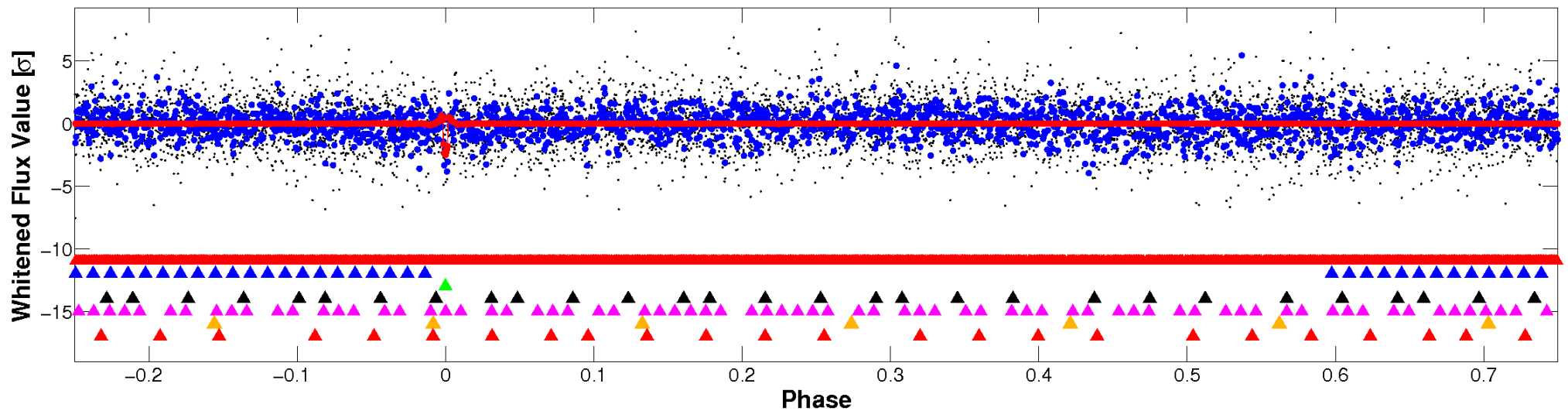


Non-Whitened Vs. Whitened Light Curve

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

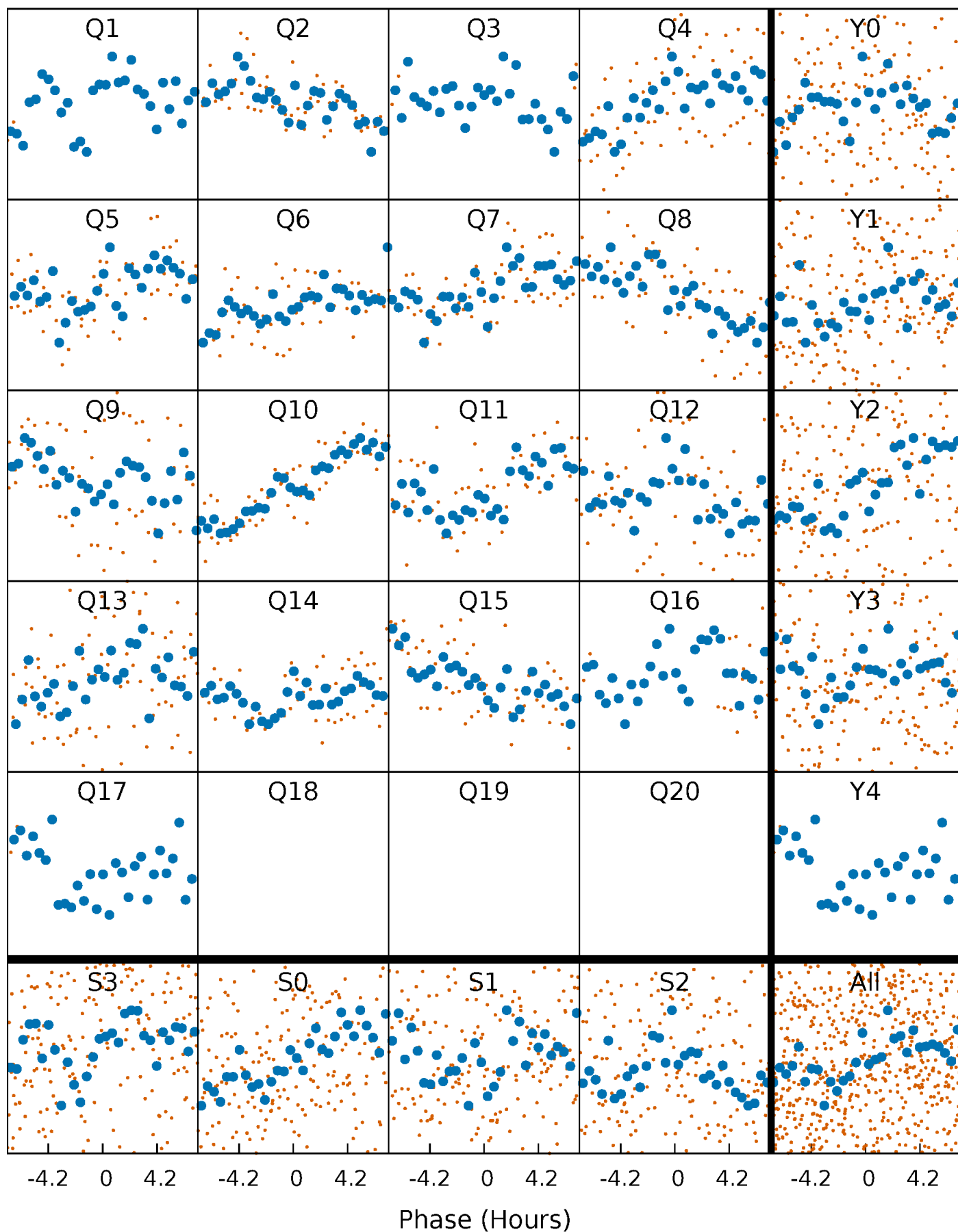


Planet 3 : Phased Whitened Flux Time Series (Fit Epoch/Period)



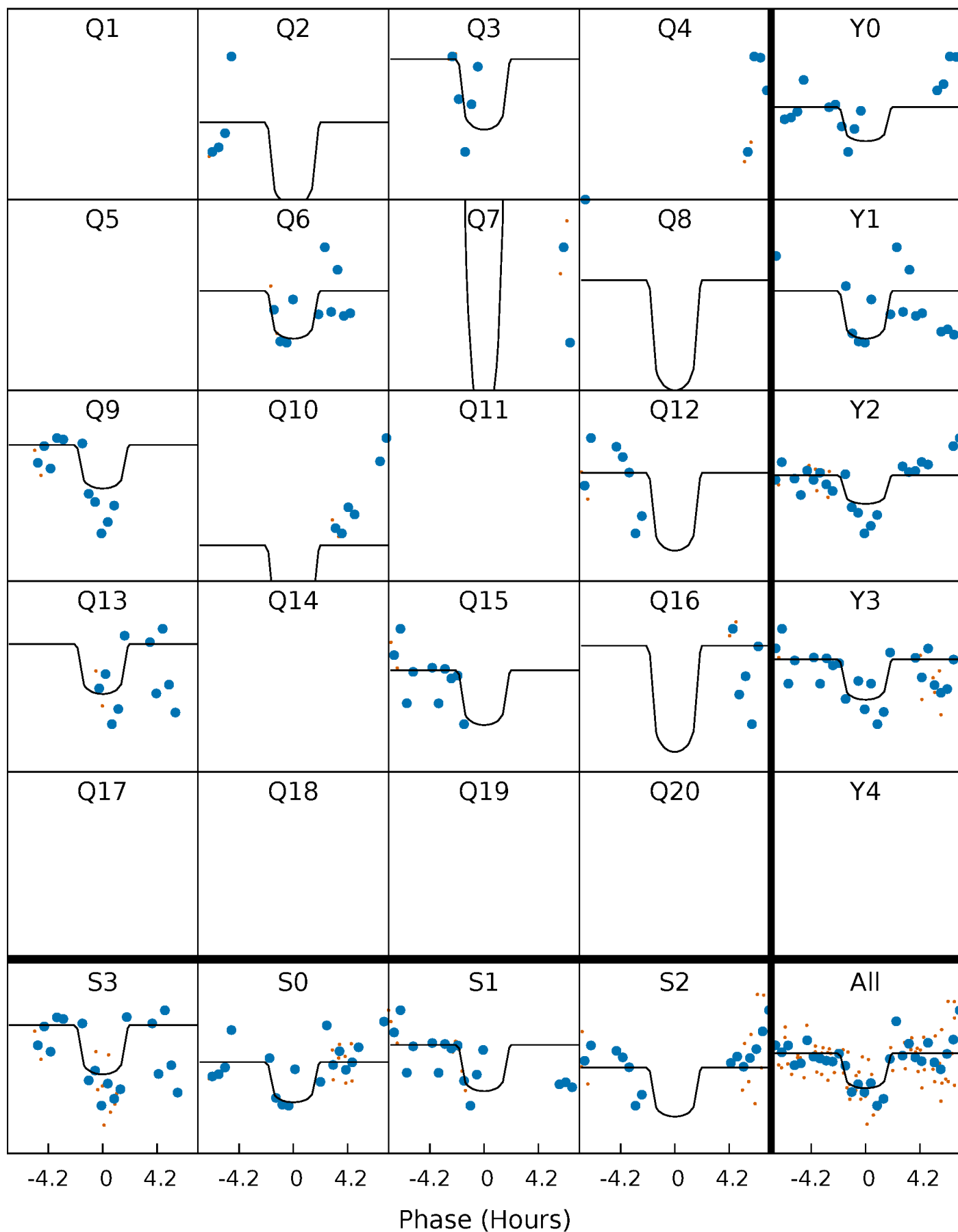
PDC Quarter-Phased Transit Curves

TCE 005725851-03 P= 43.159041 Days $T_0=150.618766$ (BKJD)



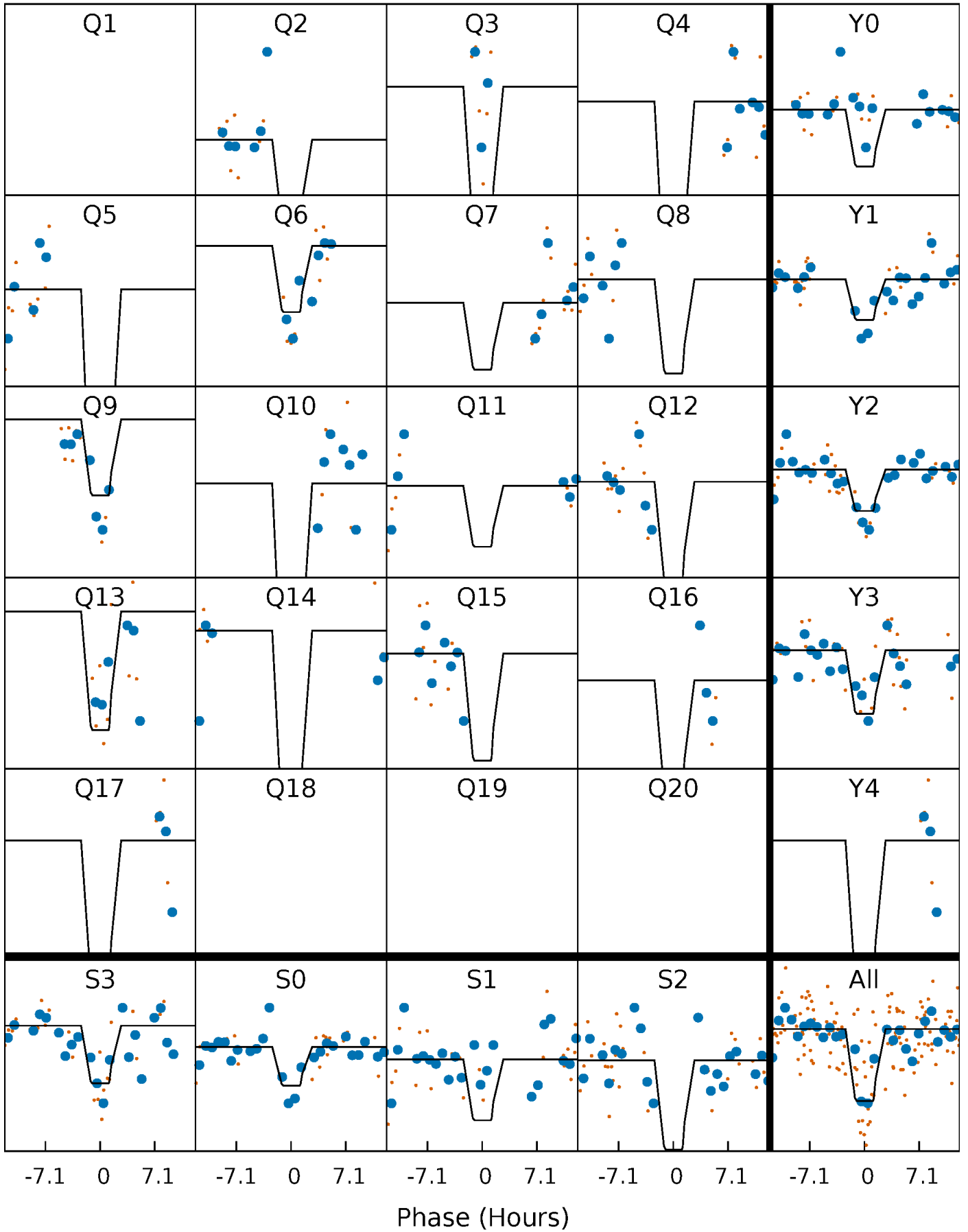
DV Quarter-Phased Transit Curves

TCE 005725851-03 P= 43.159041 Days $T_0=150.618766$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

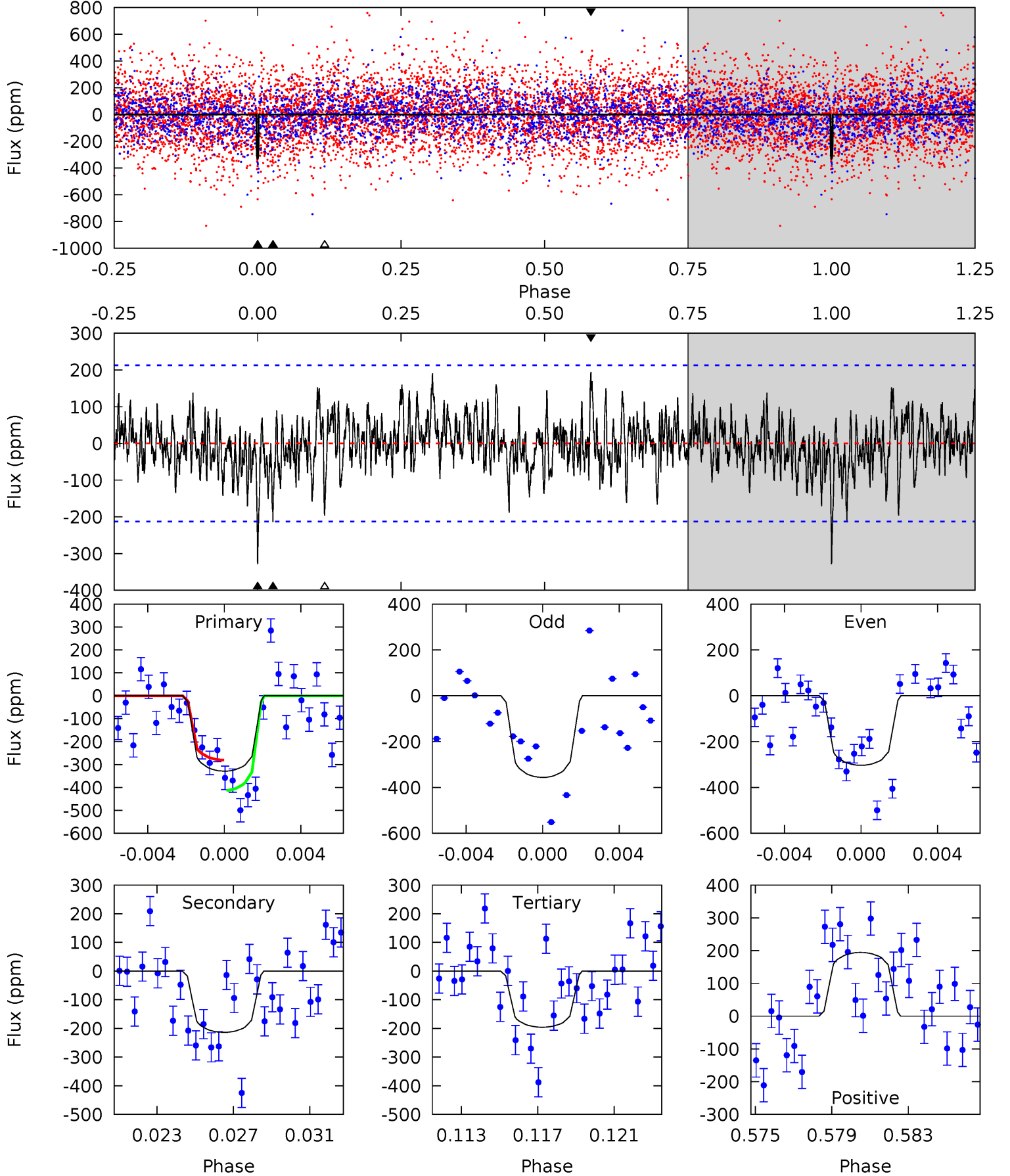
TCE 005725851-03 P= 43.162687 Days $T_0=150.551616$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-03, P = 43.159041 Days, E = 107.459725 Days

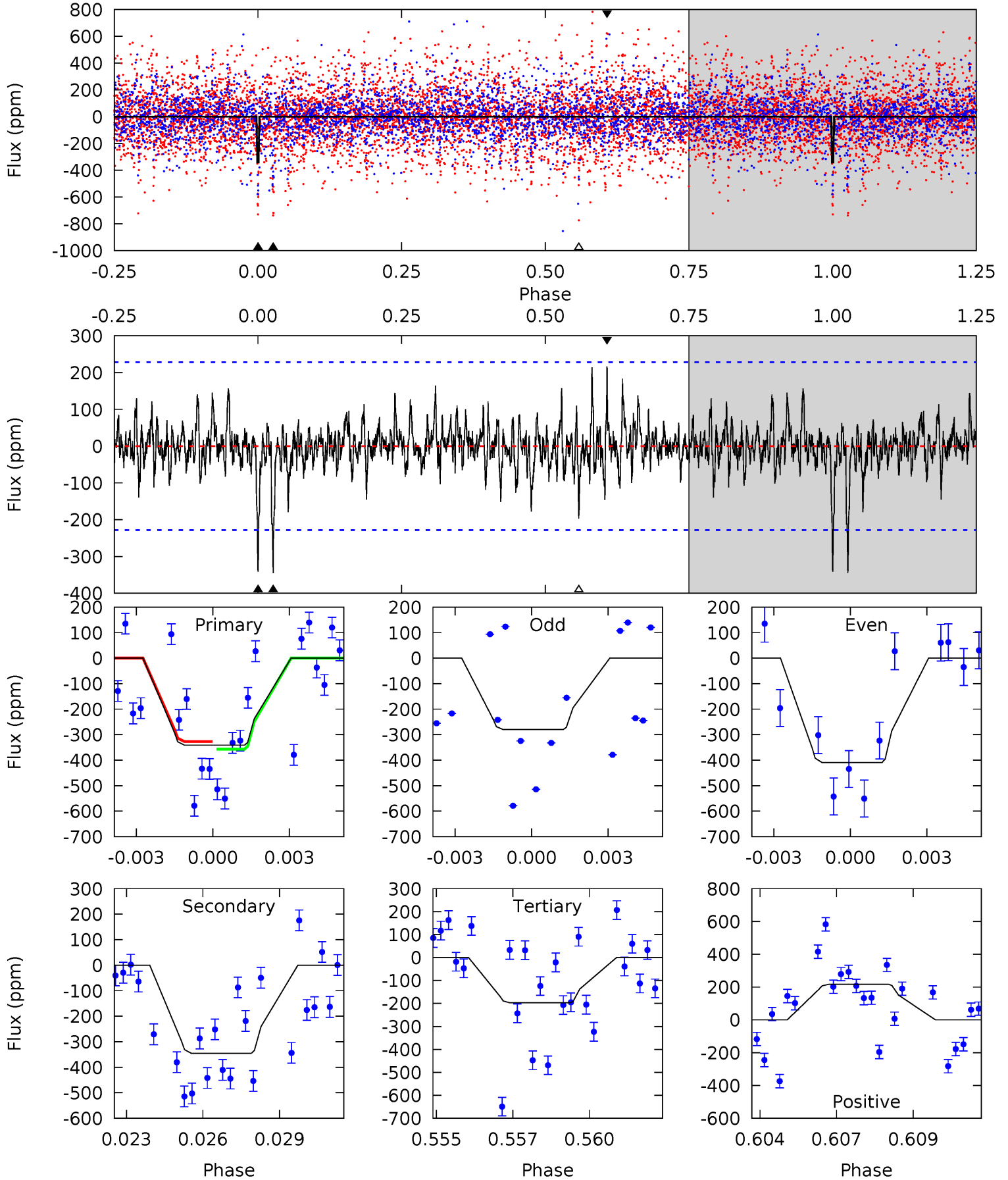
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.05	5.23	4.79	4.76	5.20	2.89	1.44	3.26	3.29	0.44	0.47	0.64	0.95	0.37	1.56



Alt Model-Shift Uniqueness Test

005725851-03, $P = 43.162687$ Days, $E = 107.388929$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.89	7.98	4.56	5.00	5.28	3.01	1.16	3.33	2.89	3.42	2.98	1.49	0.84	0.39	0.35



Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-03 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-214 ± 41	$11.55^{+9.92}_{-6.96}$	1748^{+159}_{-222}	5621^{+3706}_{-1156}	83^{+401}_{-60}
Alt.	-345 ± 43	$13.05^{+9.91}_{-7.50}$	1741^{+164}_{-219}	5942^{+3346}_{-1231}	100^{+471}_{-68}

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 $A_{obs} \gg 1.0$

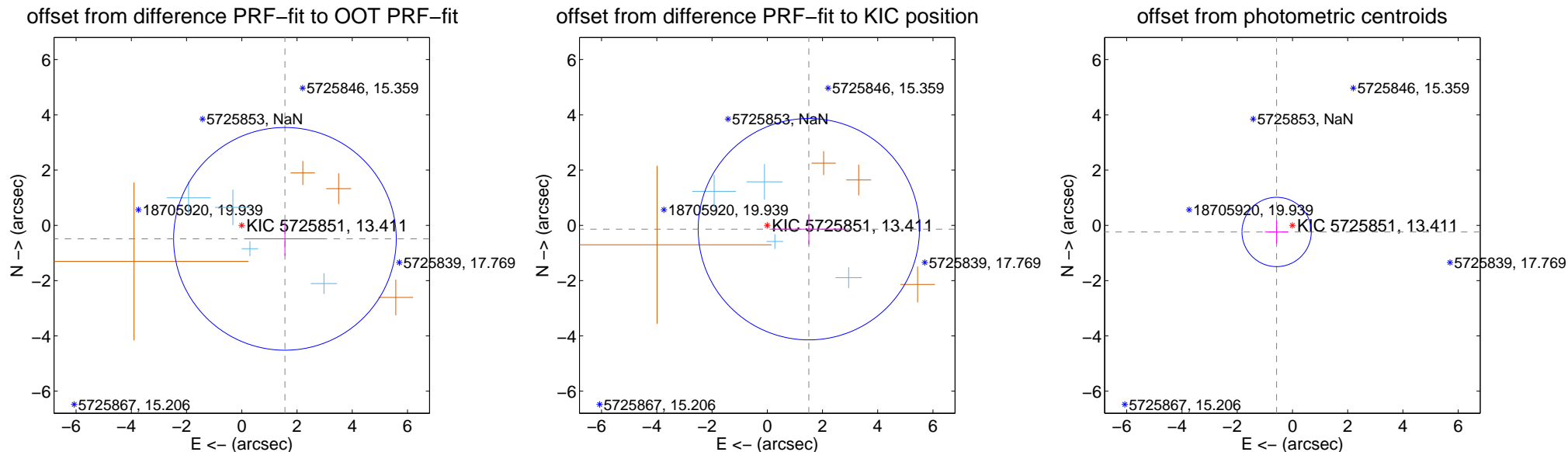
DV Centroid Data

Supplemental centroid analysis for 005725851-03. Kepler magnitude: 13.41. Transit SNR 9.98

There are 4 quarters with good PRF difference image offsets

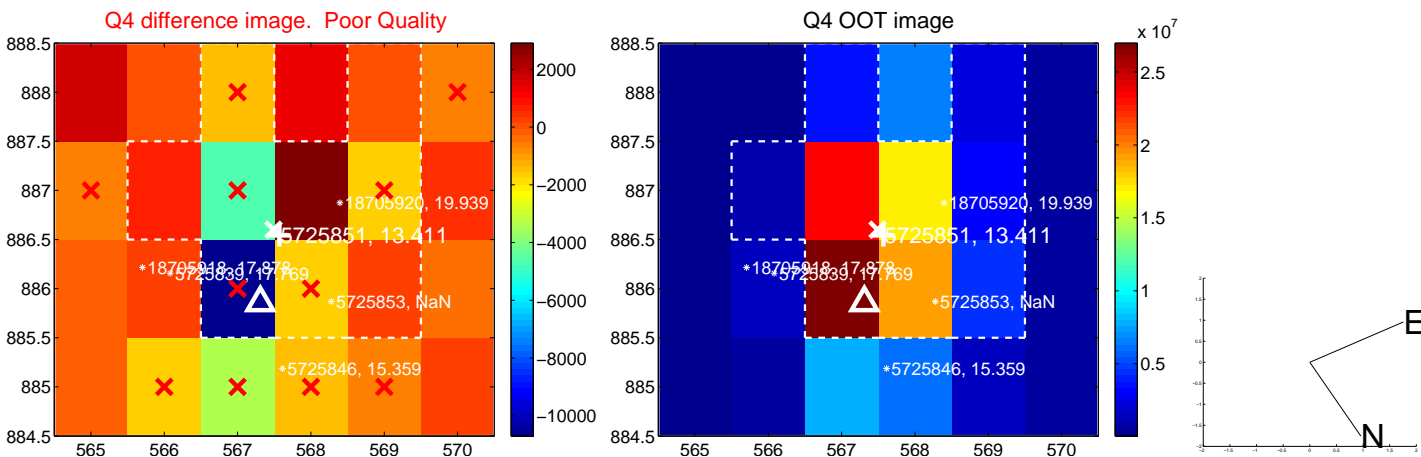
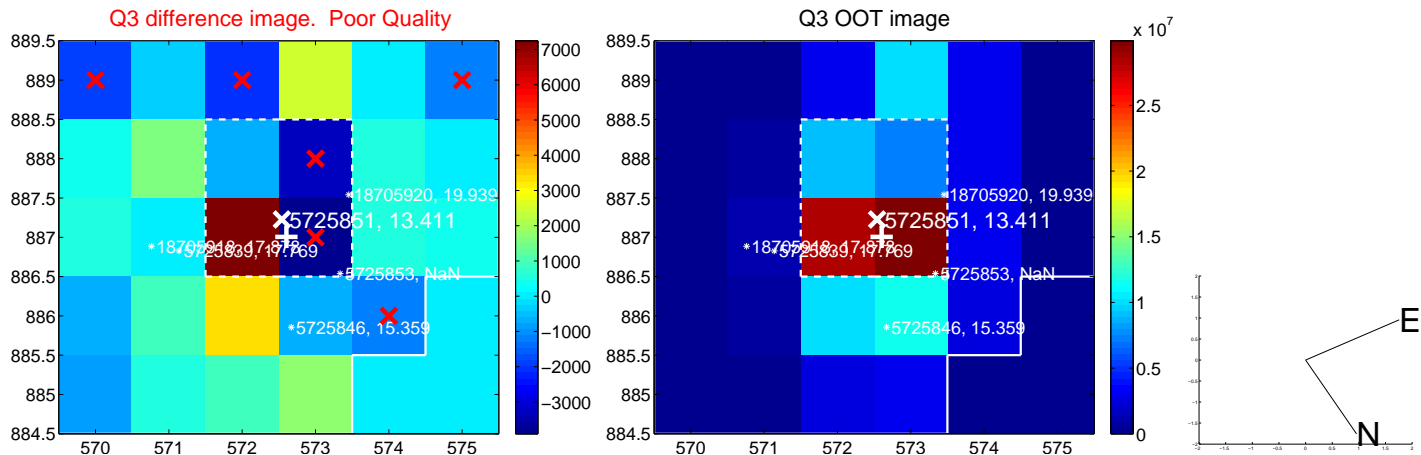
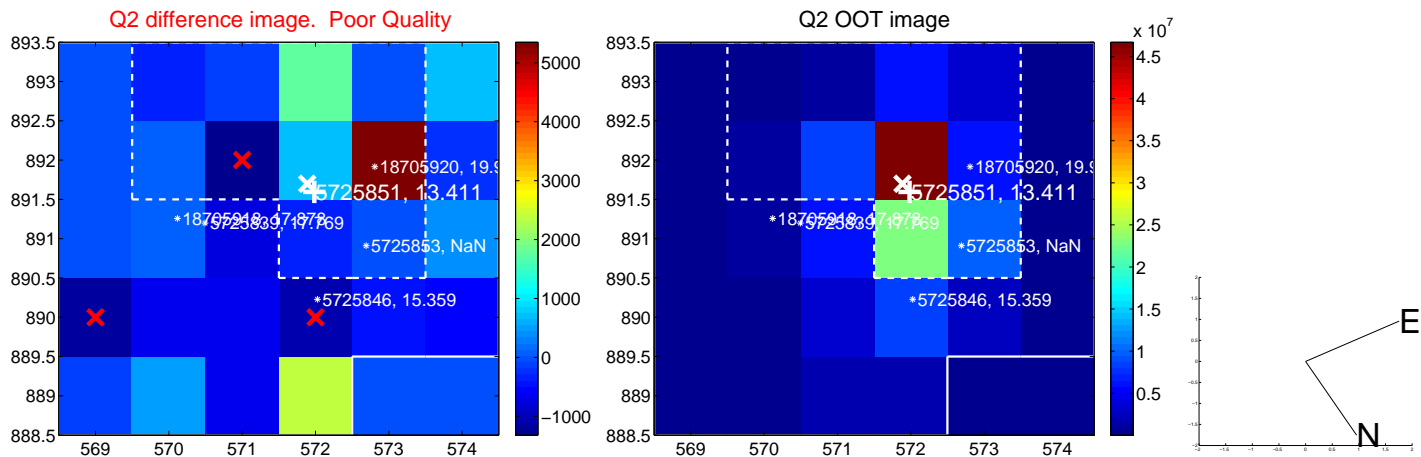
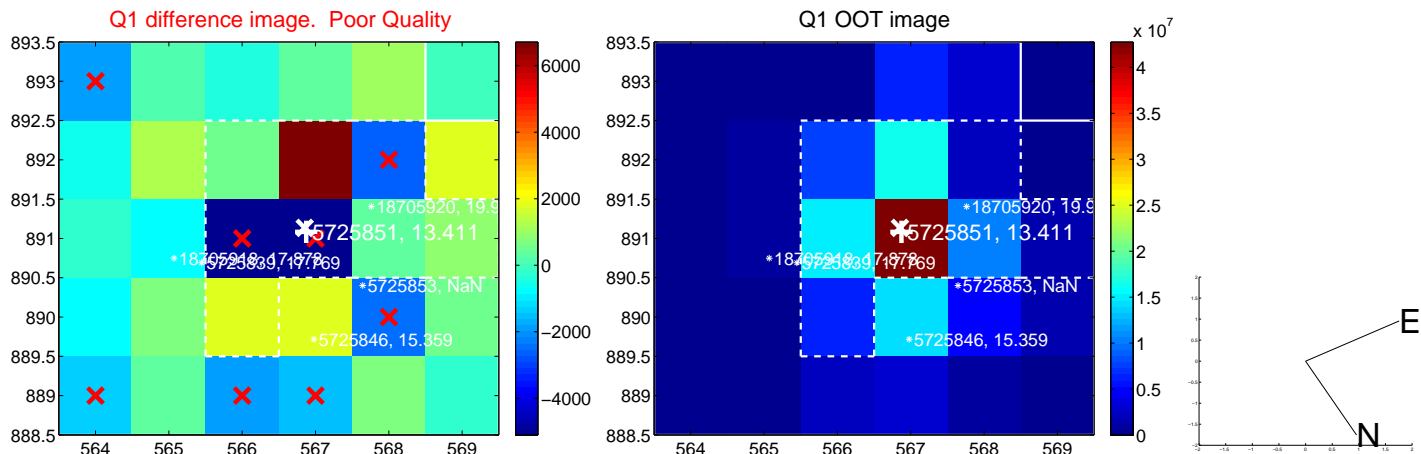
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.636 ± 1.343	1.22	-1.562 ± 1.447	-0.488 ± 0.610
PRF-fit source offset from KIC position	1.511 ± 1.335	1.13	-1.505 ± 1.337	-0.139 ± 0.551
photometric centroid source offset	0.62 ± 0.42	1.49	0.57 ± 0.42	-0.24 ± 0.41

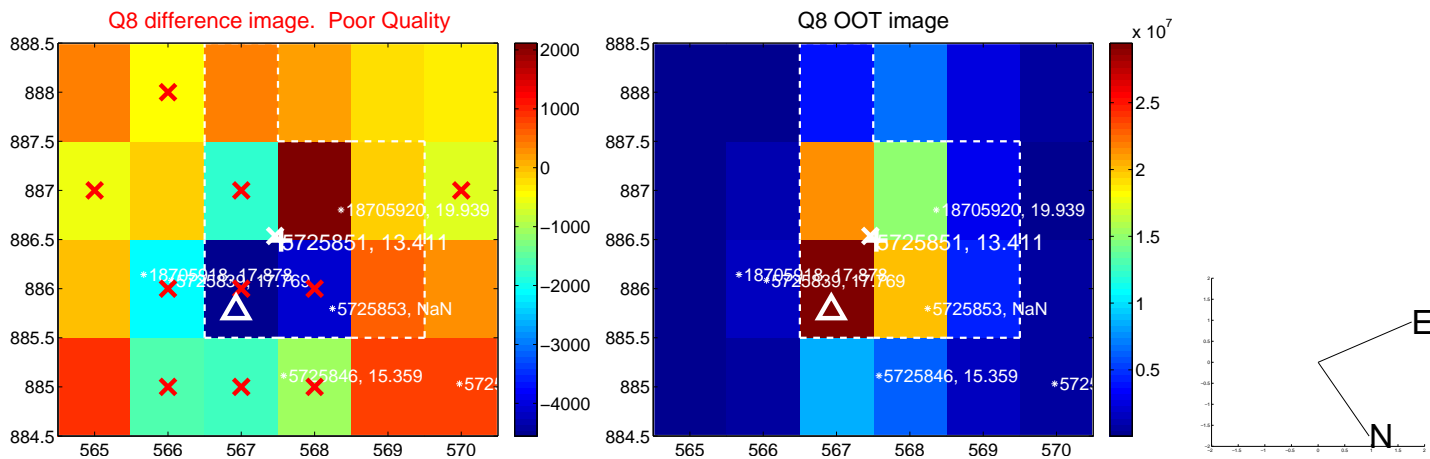
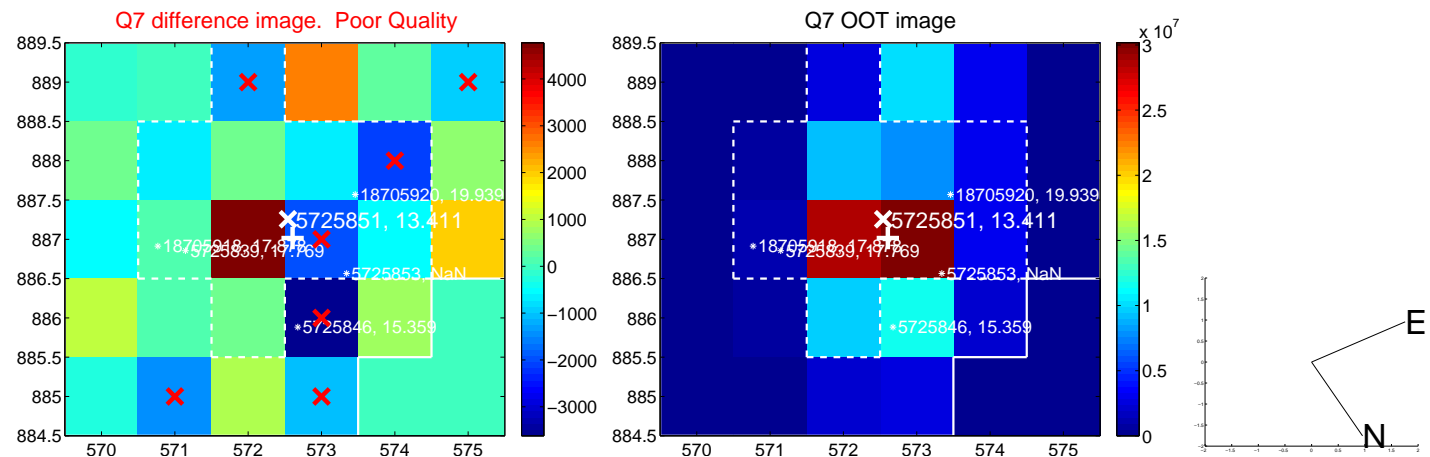
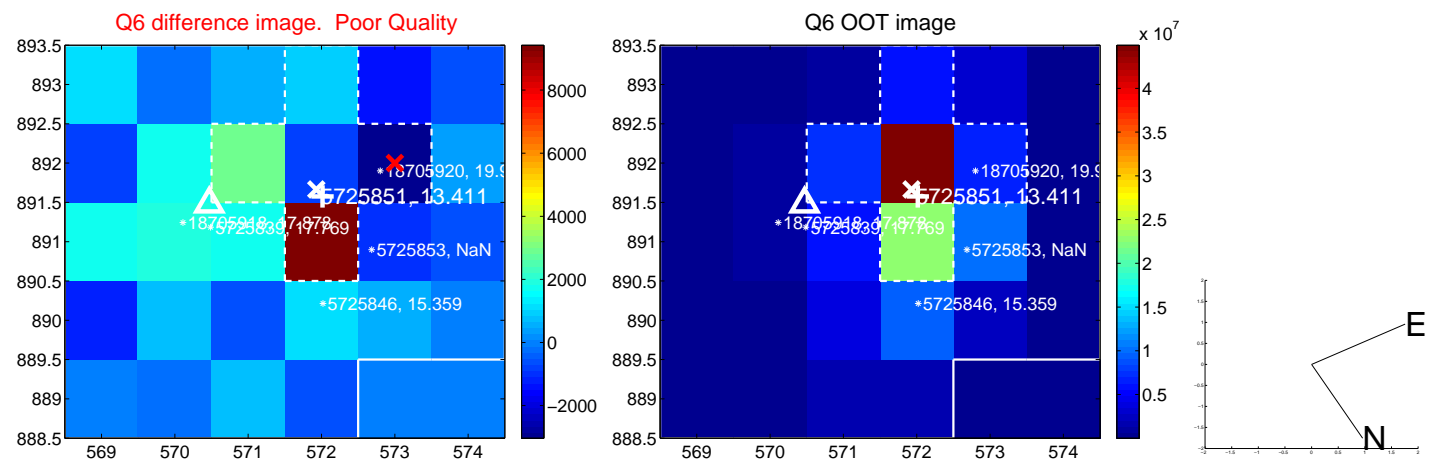
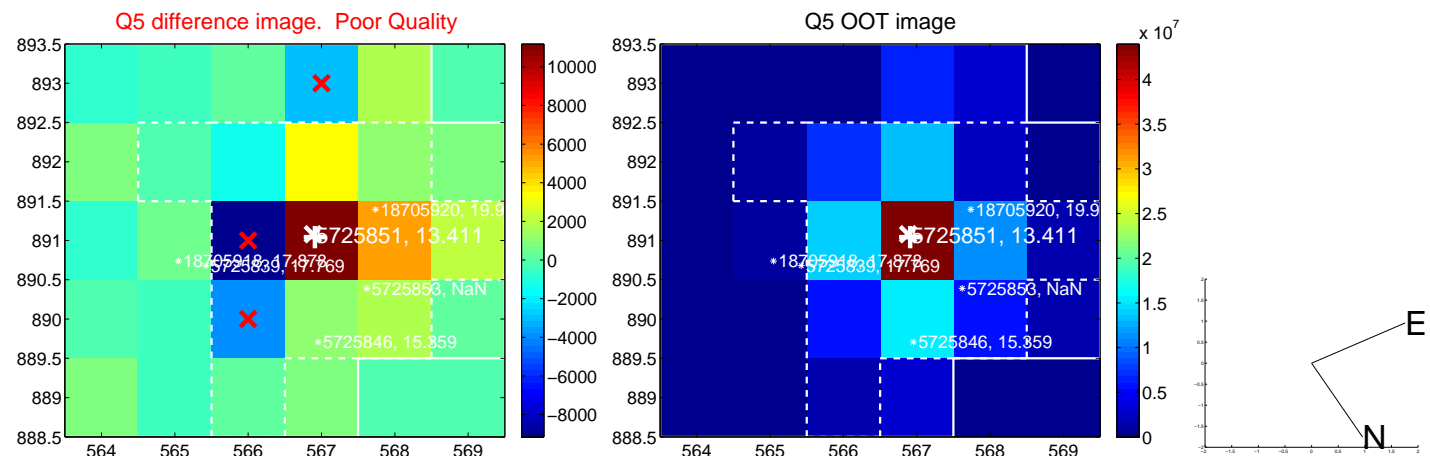


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

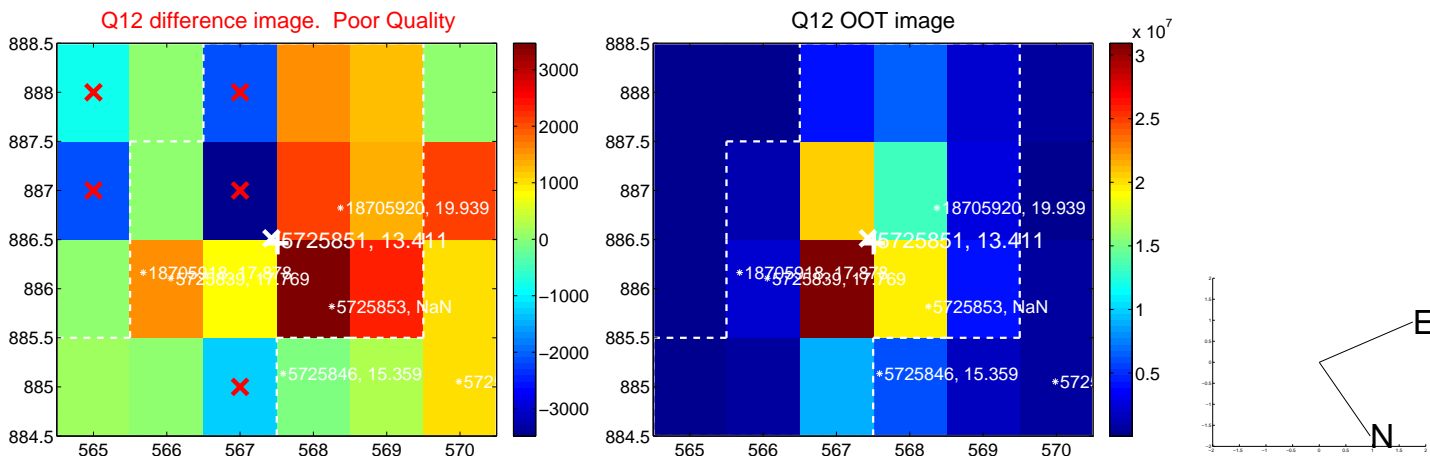
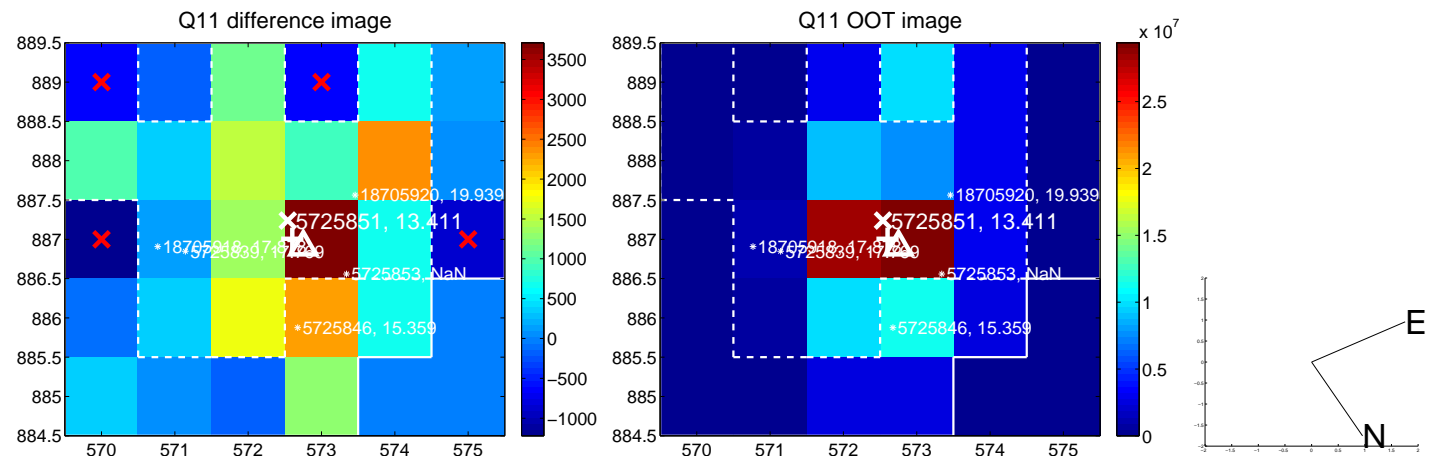
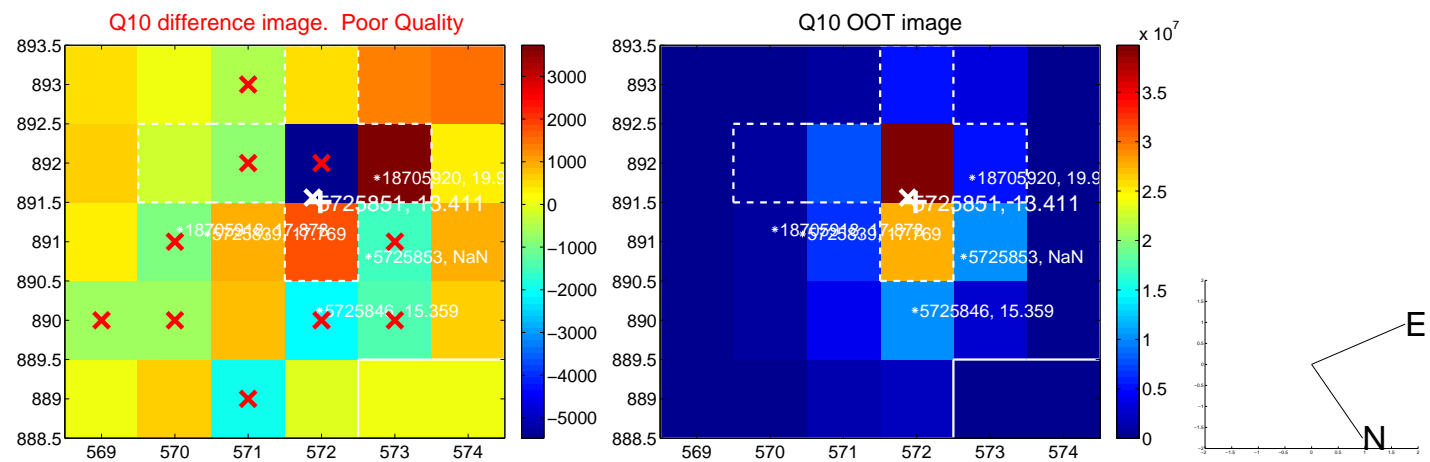
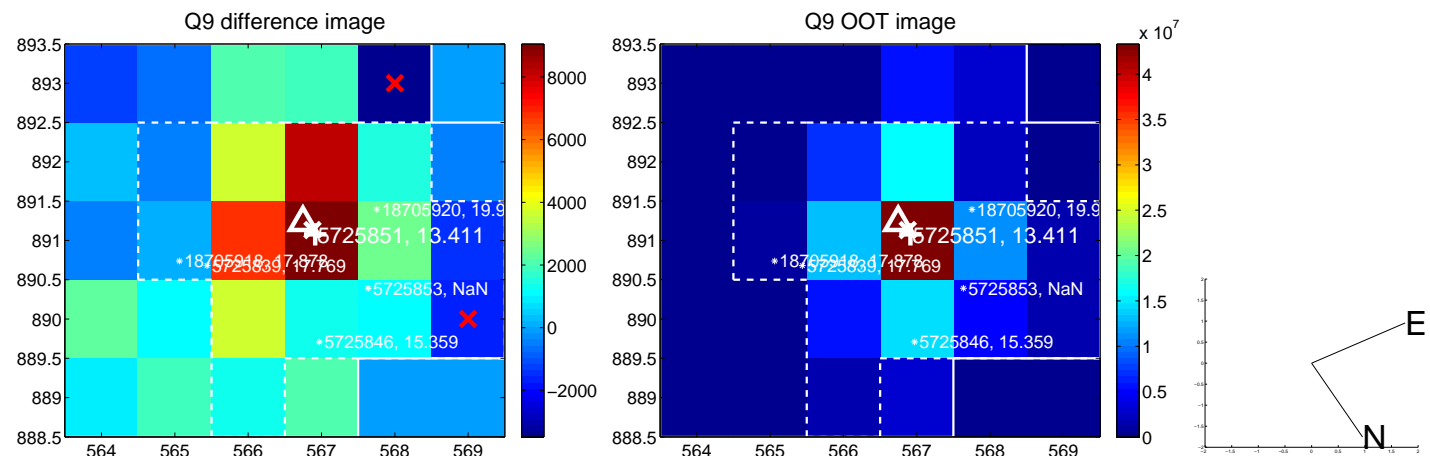
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



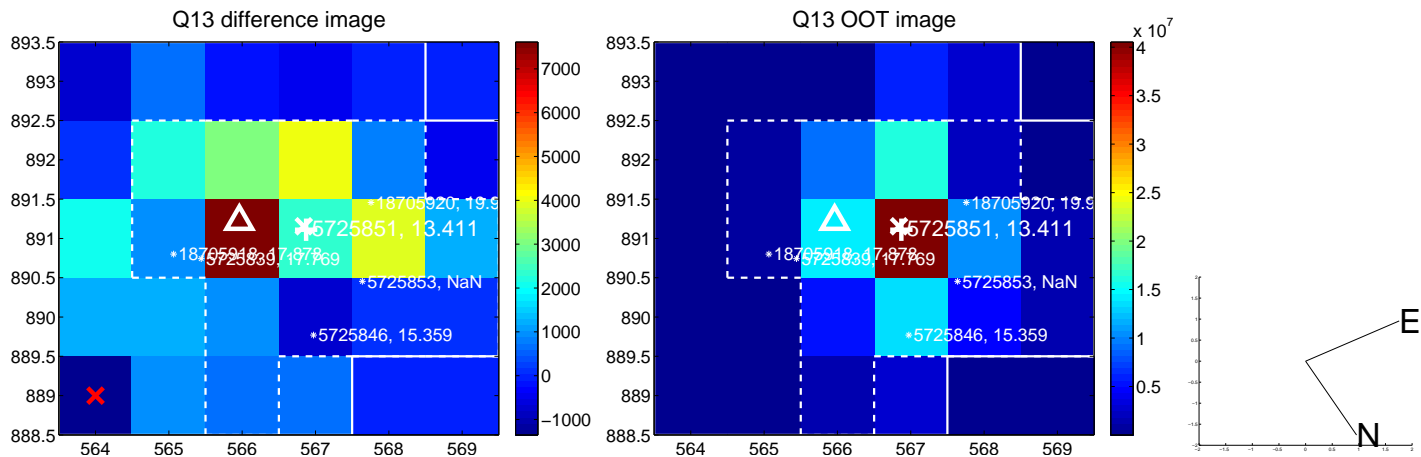
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



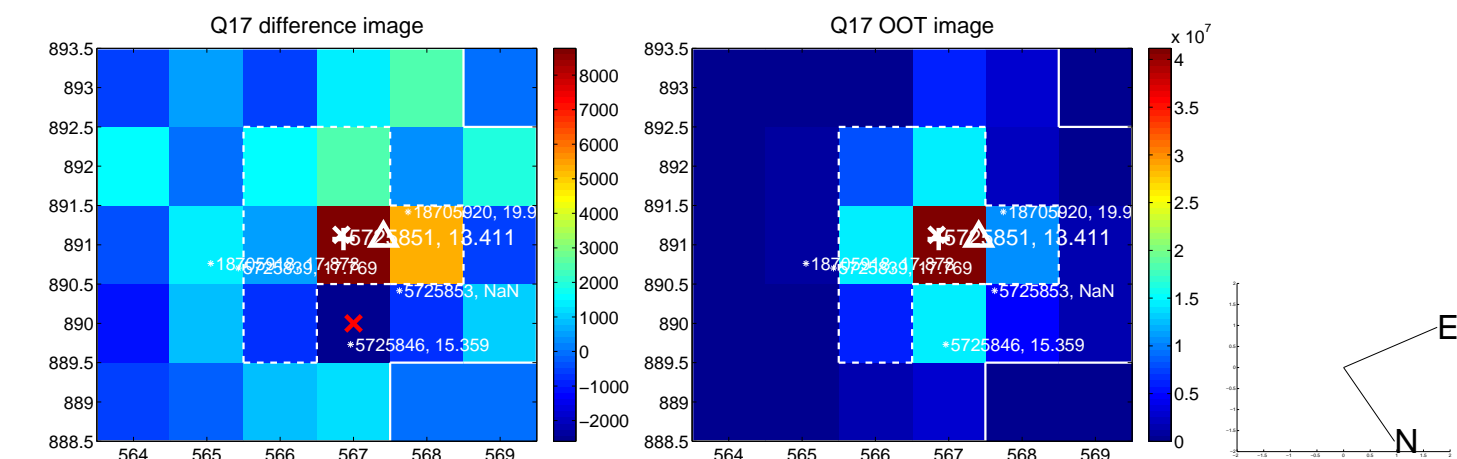
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



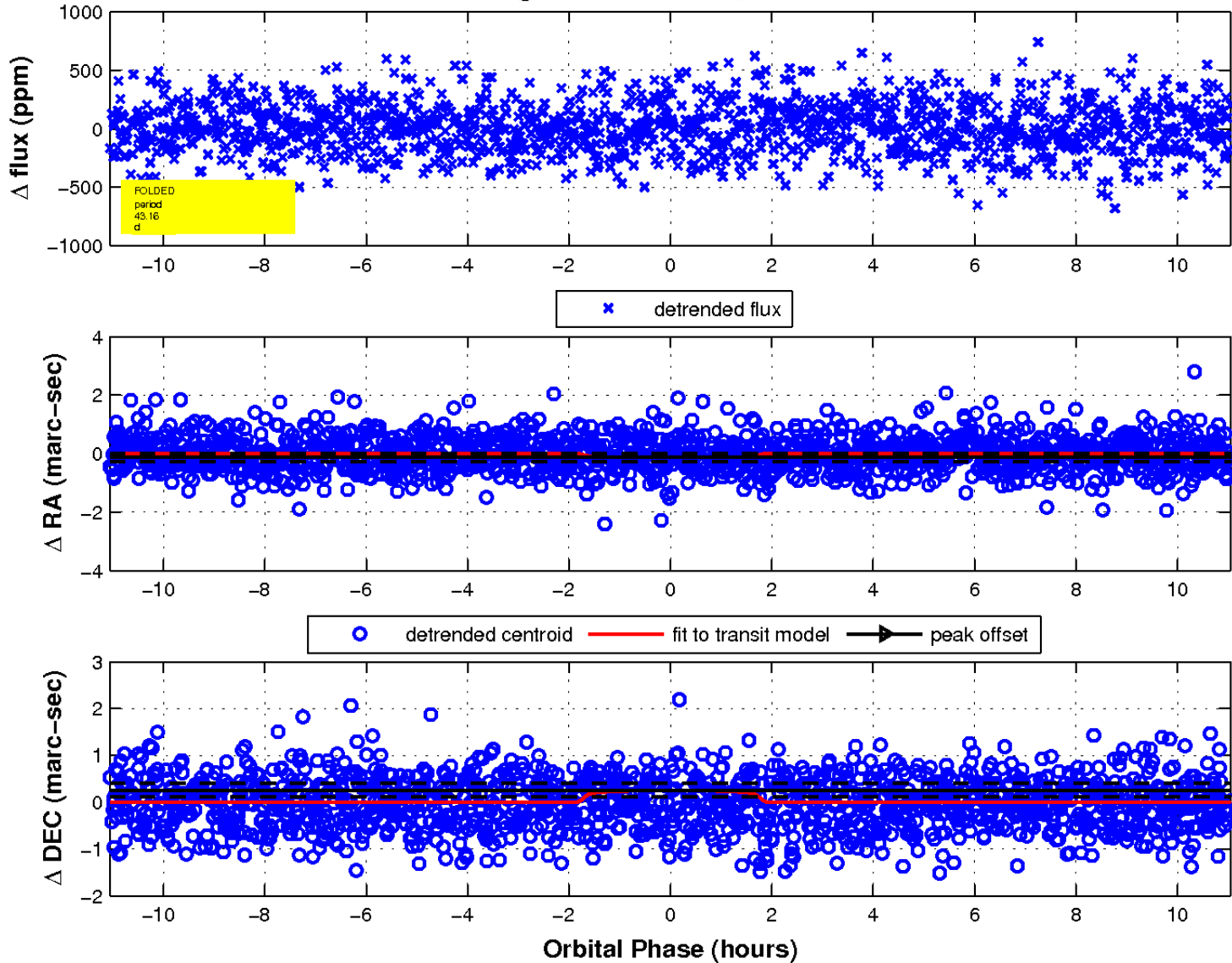
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



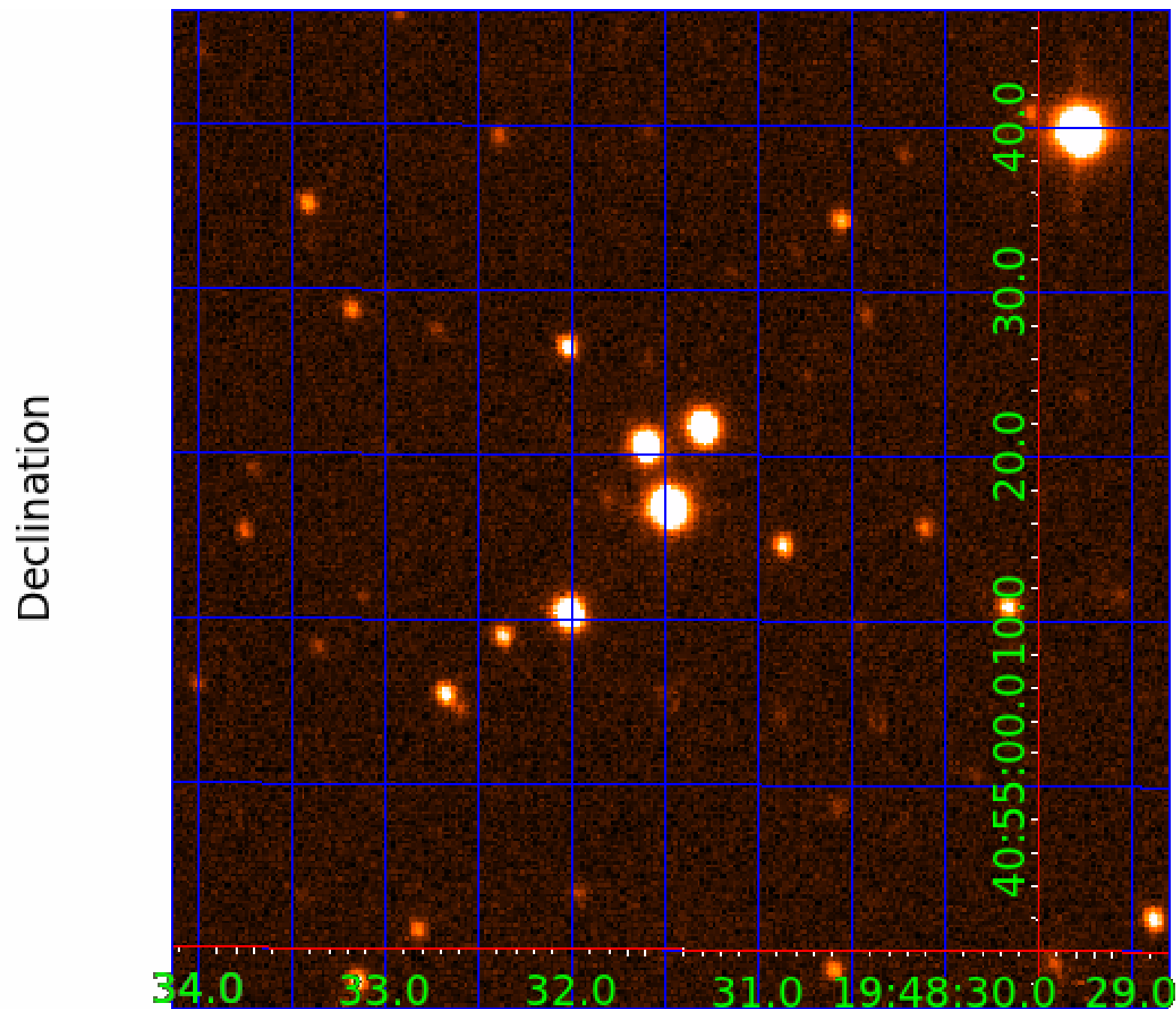
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 3 of 7



UKIRT Image



KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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 005725851-04

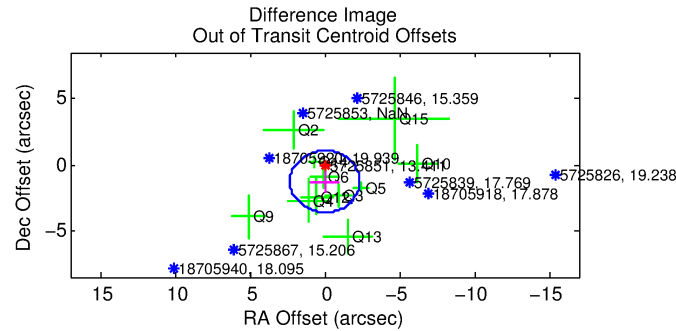
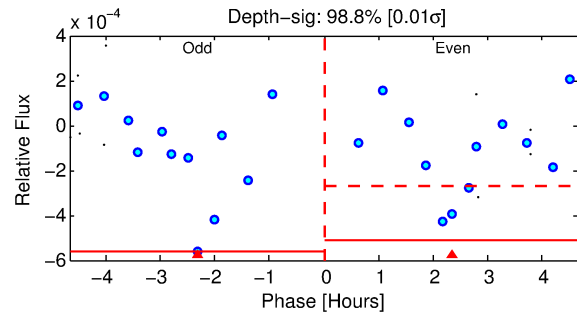
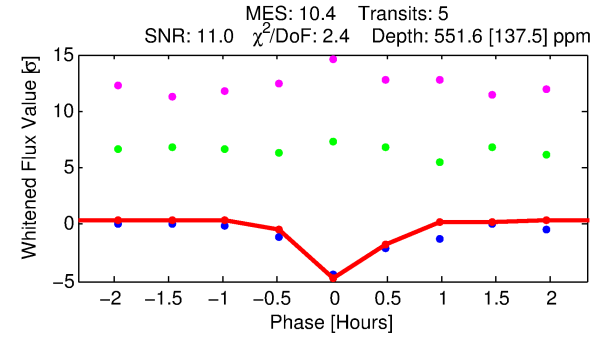
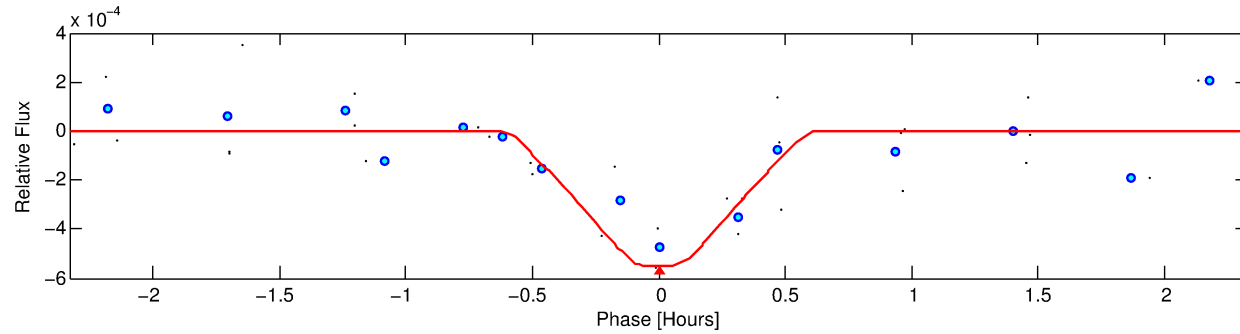
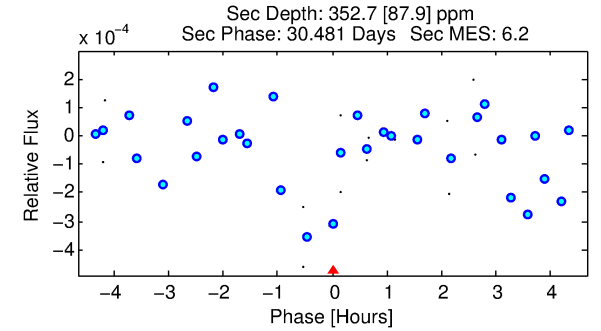
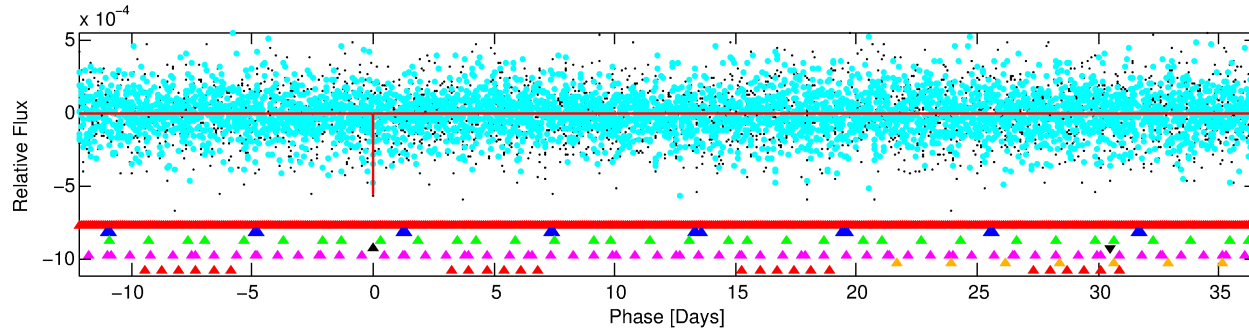
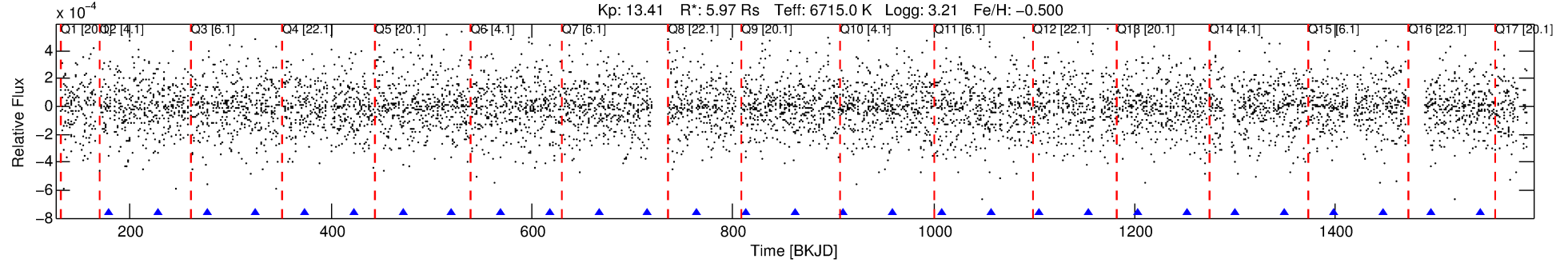
No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 4 of 7 Period: 48.756 d

KOI: K06620 Corr: No Ephemeris Match

Kp: 13.41 R*: 5.97 Rs Teff: 6715.0 K Logg: 3.21 Fe/H: -0.500



DV Fit Results:

Period = 48.75556 [0.00026] d
Epoch = 179.0815 [0.0043] BKJD
Rp/R* = 0.0248 [0.0786]
a/R* = 267.98 [5096.84]
b = 0.86 [5.88]
Seff = 577.69 [482.63]
Teq = 1250 [261] K
Rp = 16.14 [51.87] Re
a = 0.3352 [0.1701] AU
Ag = 83.76 [536.48] [0.15σ]
Teffp = 5847 [9287] K [0.49σ]

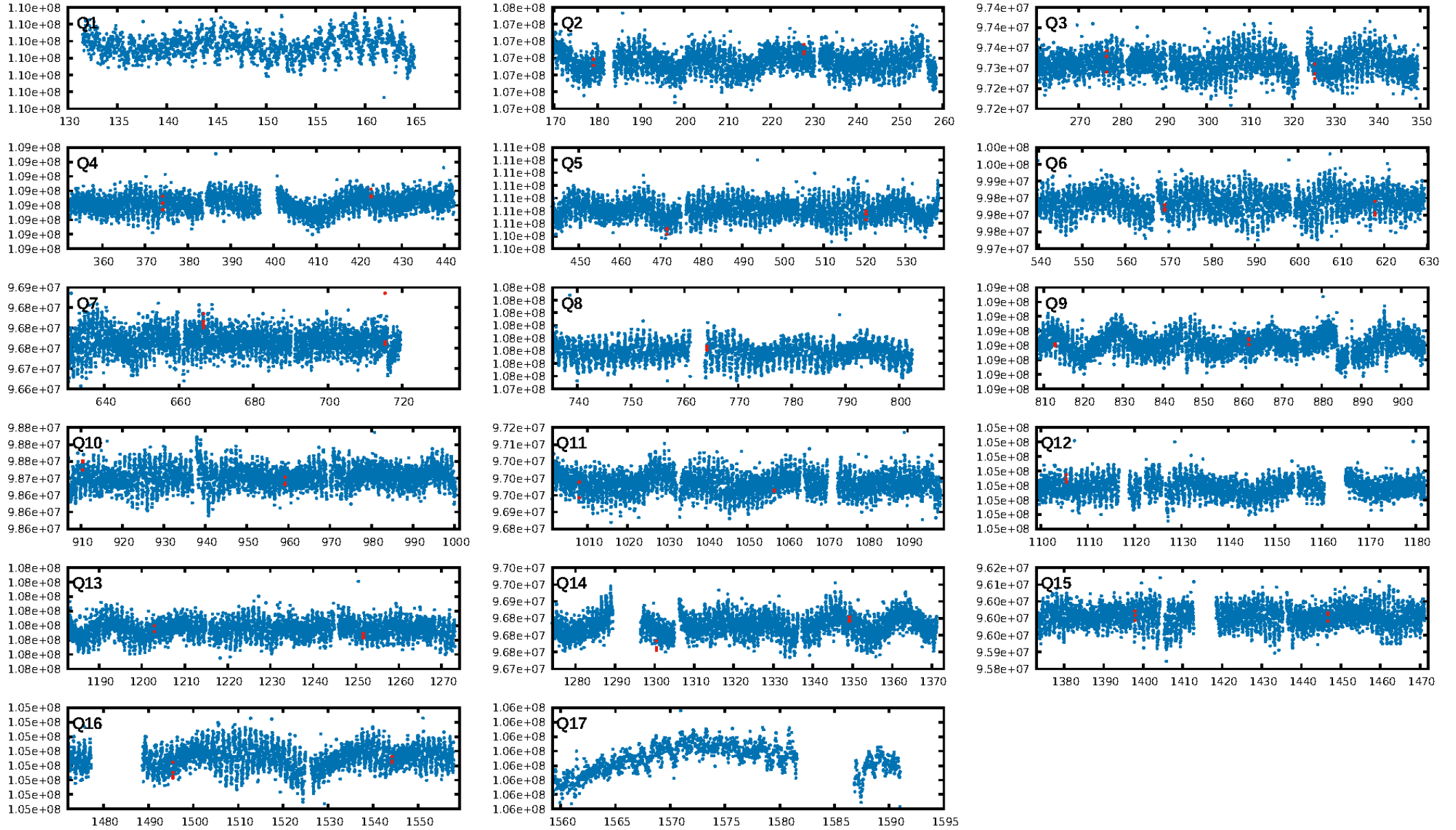
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [35.67σ]
LongPeriod-sig: 100.0% [89.52σ]
ModelChiSquare2-sig: 69.6%
ModelChiSquareGof-sig: 60.4%
Bootstrap-pfa: 6.44e-09
RollingBand-fgt: 1.00 [5/5]
GhostDiagnostic-chr: -0.7277
Centroid-sig: 10.3%
Centroid-so: 0.752 arcsec [1.36σ]
OotOffset-rm: 1.287 arcsec [1.65σ]
KicOffset-rm: 0.919 arcsec [1.09σ]
OotOffset-st: 4/2/2/3 [11]
KicOffset-st: 4/2/2/3 [11]
DiffImageQuality-fgm: 0.36 [4/11]
DiffImageOverlap-fno: 0.50 [6/12]

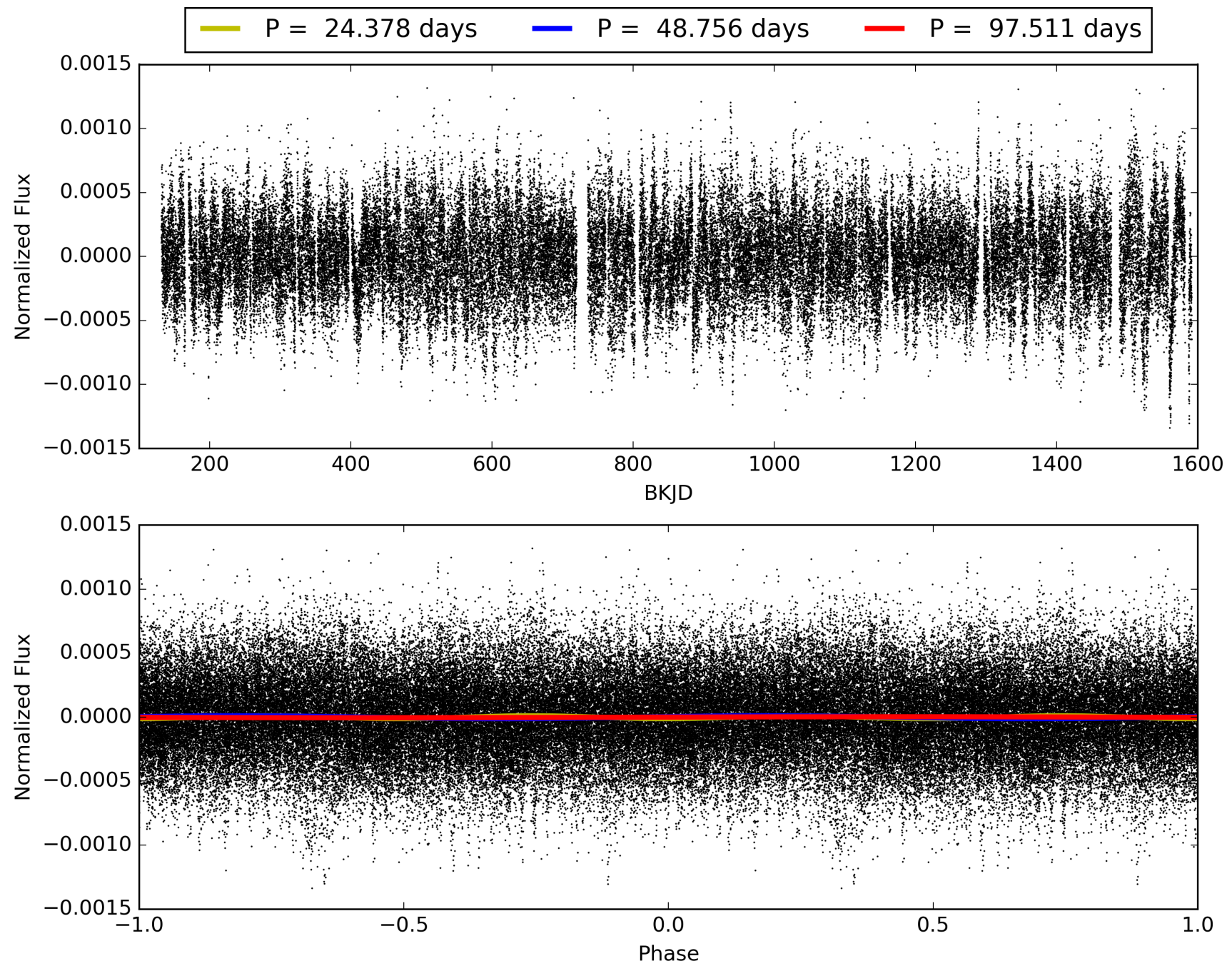
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:41:26 Z

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

TCE 005725851-04, PDC Light Curves

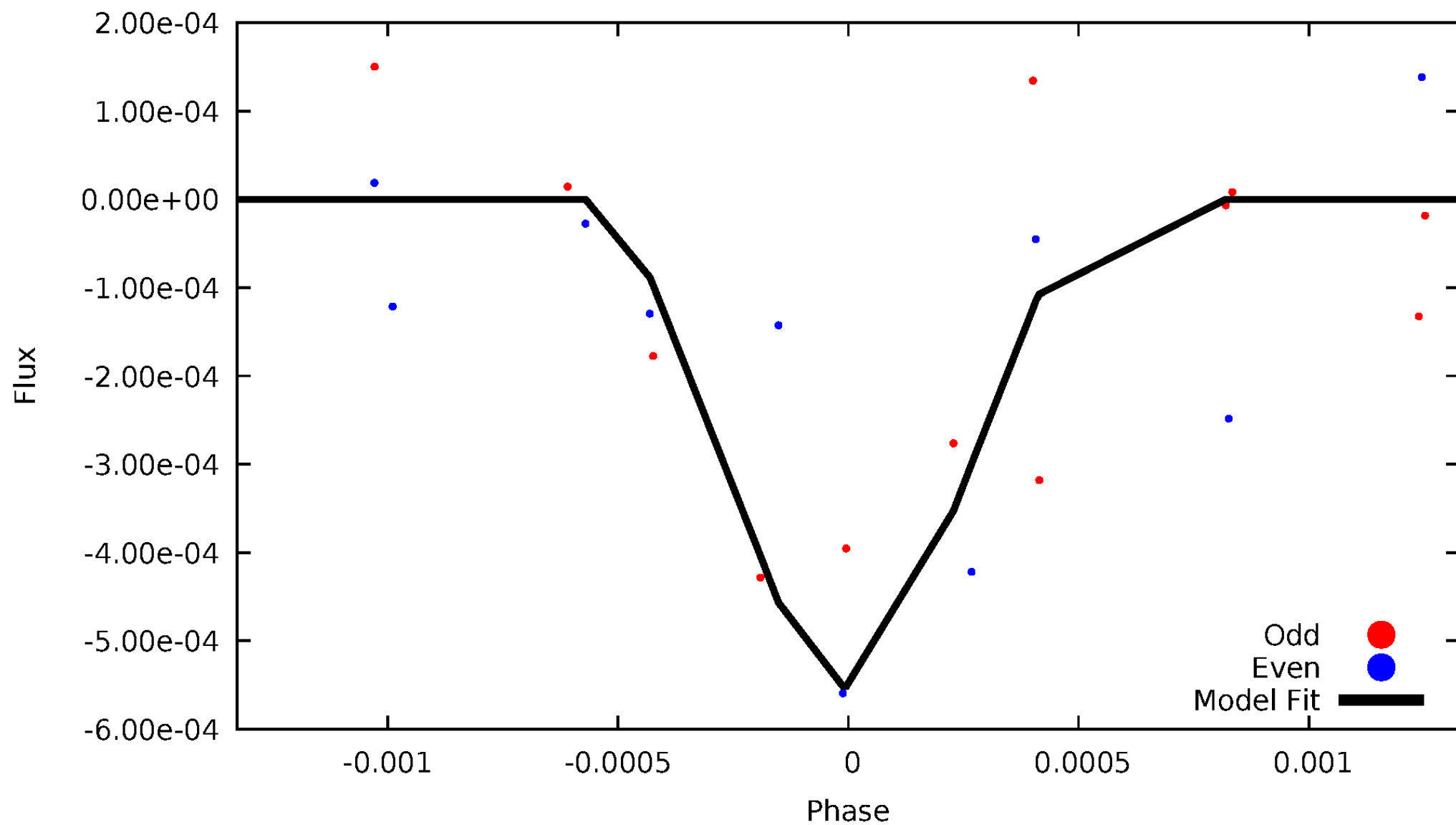


TCE 005725851-04



DV Odd/Even

TCE 005725851-04

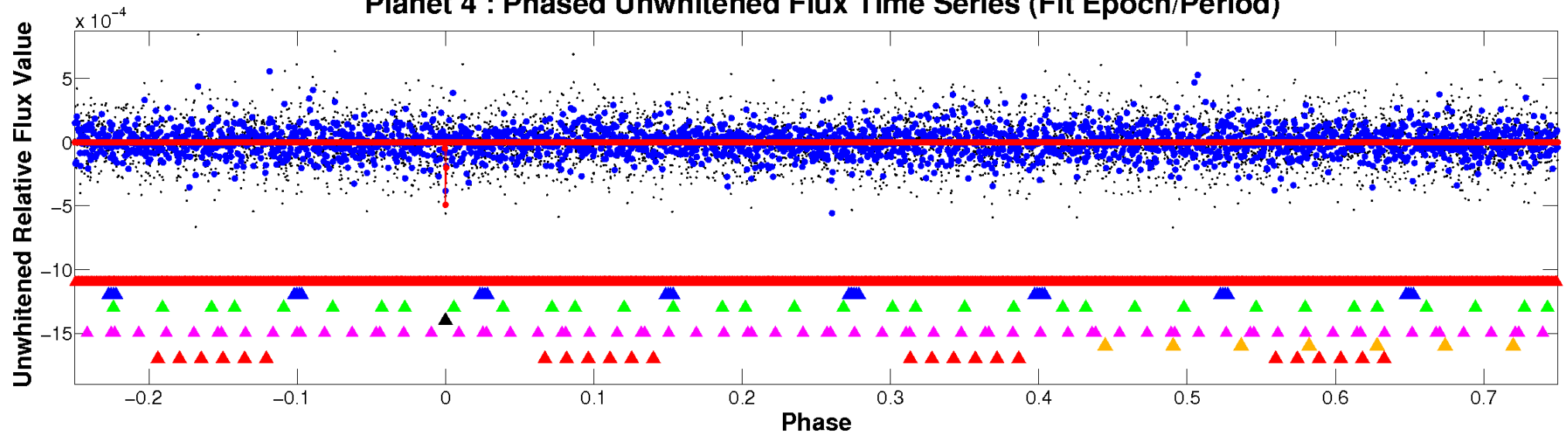


ALT Odd/Even

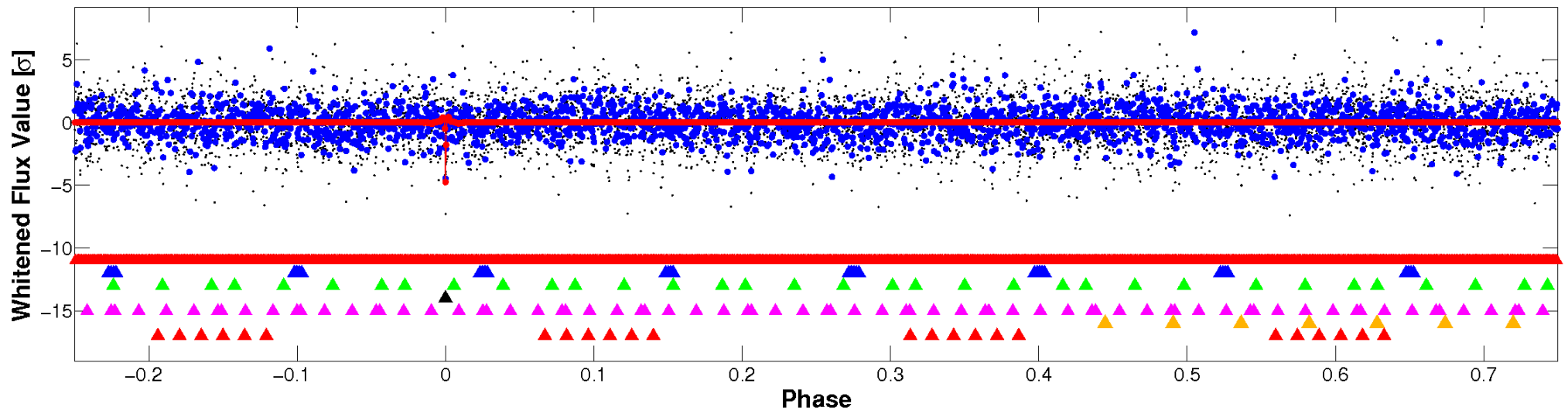
This plot does not exist for this TCE.

Non-Whitened Vs. Whitened Light Curve

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

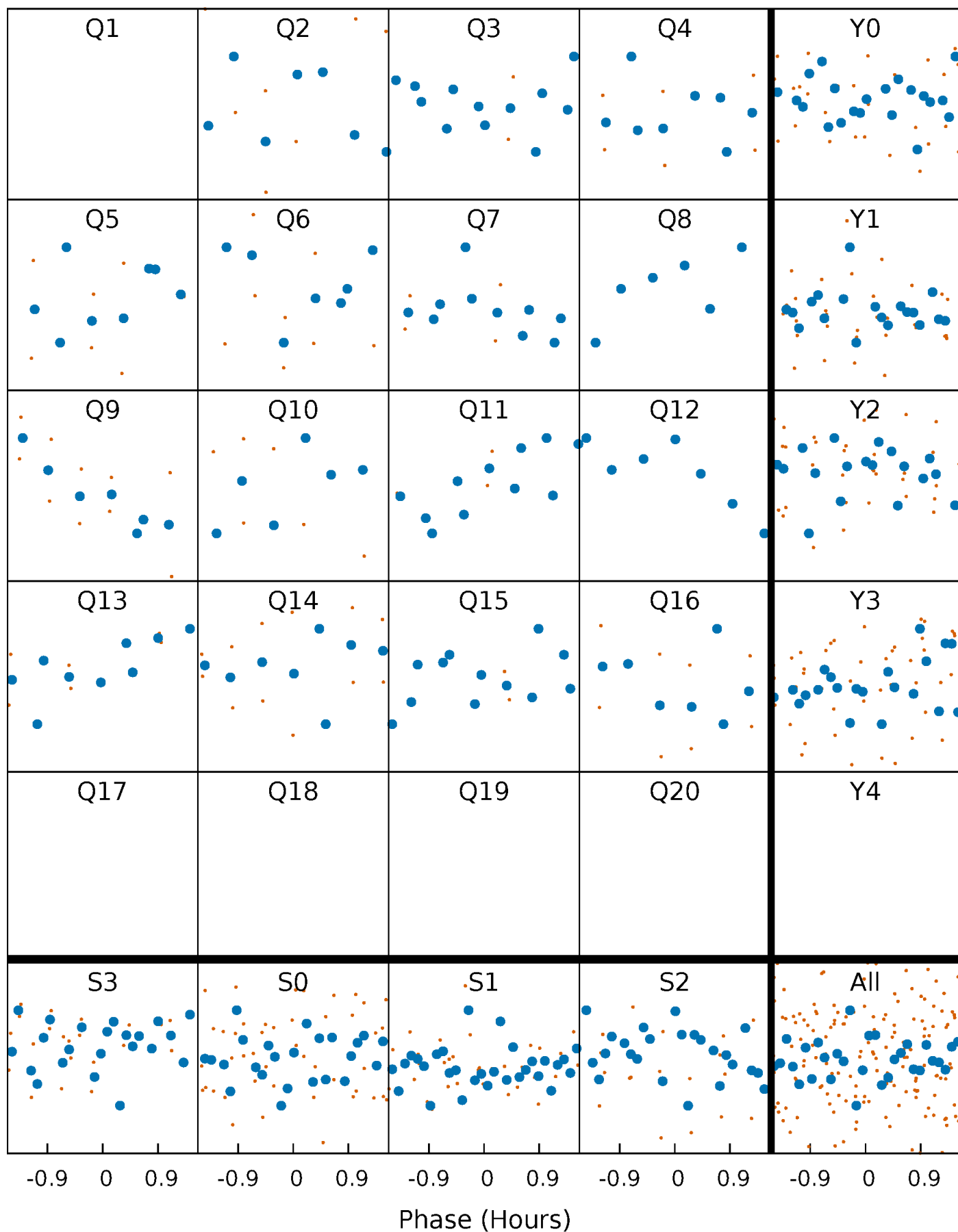


Planet 4 : Phased Whitened Flux Time Series (Fit Epoch/Period)



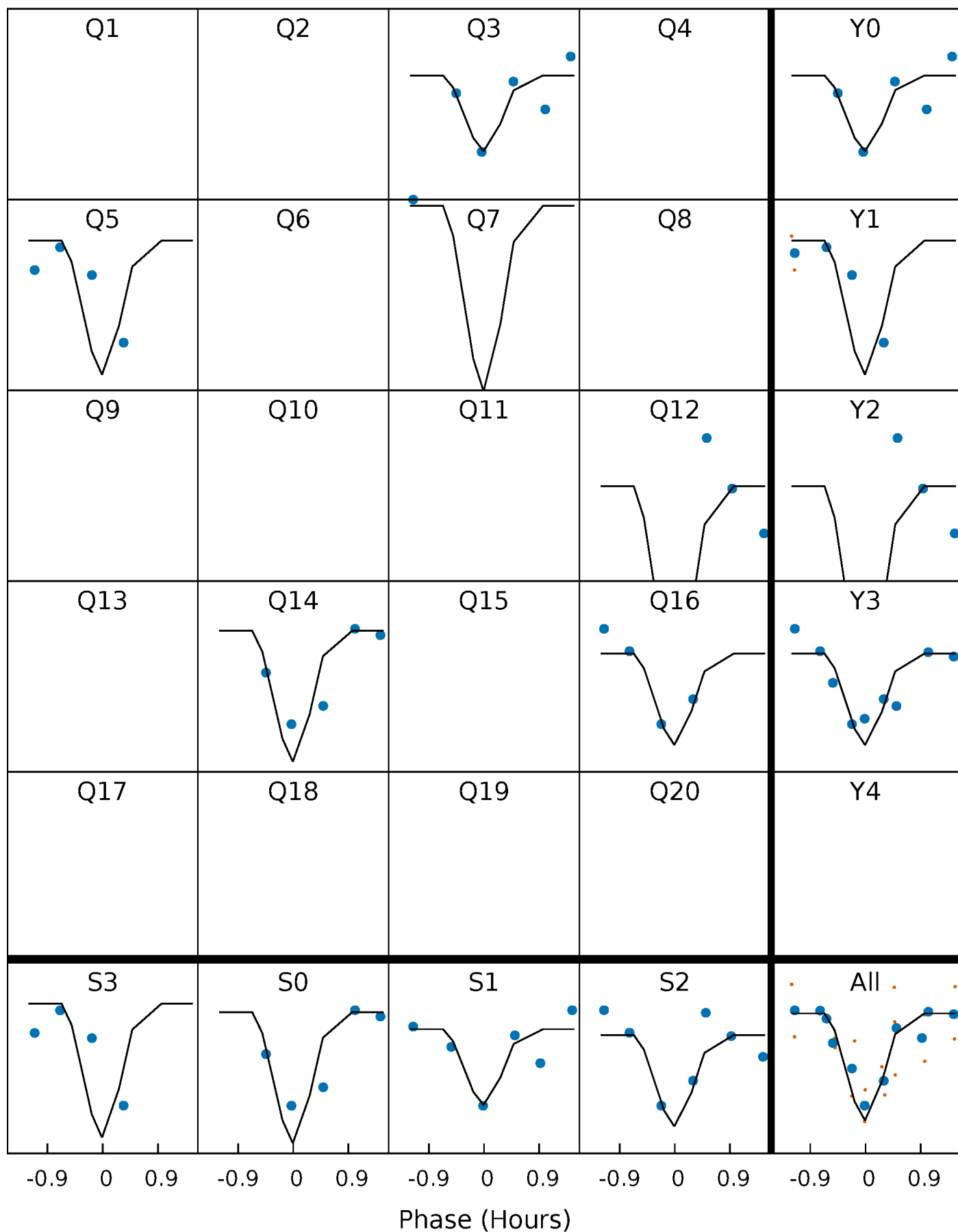
PDC Quarter-Phased Transit Curves

TCE 005725851-04 P= 48.755557 Days $T_0=179.081511$ (BKJD)



DV Quarter-Phased Transit Curves

TCE 005725851-04 P= 48.755557 Days $T_0=179.081511$ (BKJD)

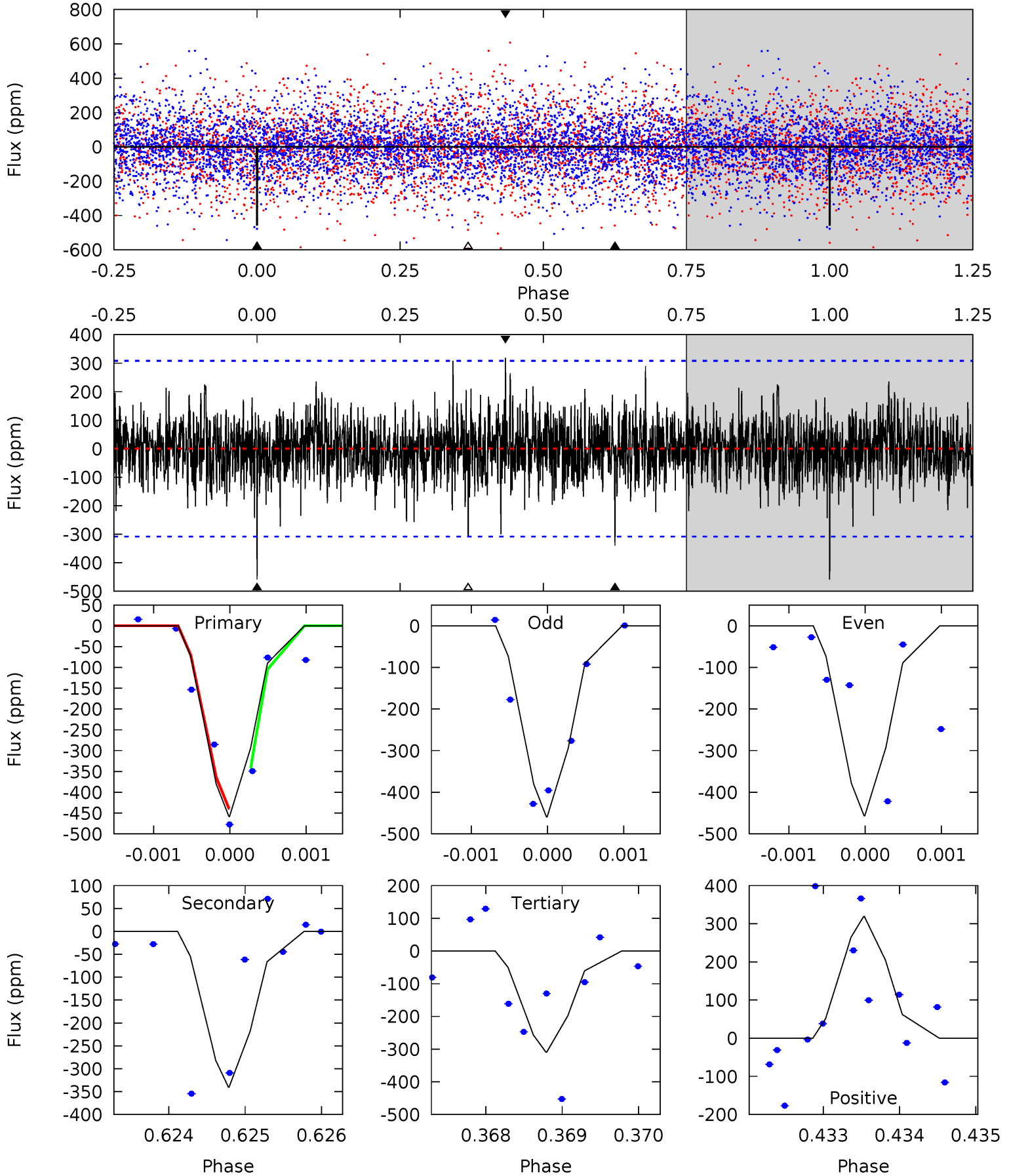


This plot does not exist for this TCE.

DV Model-Shift Uniqueness Test

005725851-04, P = 48.755557 Days, E = 130.325954 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.15	6.05	5.51	5.68	5.48	3.34	1.36	2.65	2.48	0.54	0.37	0.02	0.96	0.41	0.87



Alt Model-Shift Uniqueness Test

This plot does not exist for this TCE.

Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-04 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-340 ± 56	$34.60^{+37.18}_{-22.57}$	1691^{+145}_{-232}	3940^{+2207}_{-811}	16^{+125}_{-13}
Alt.	N/A	N/A	N/A	N/A	N/A

T_{max} = Theoretical Maximum Planetary Temperature

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

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

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

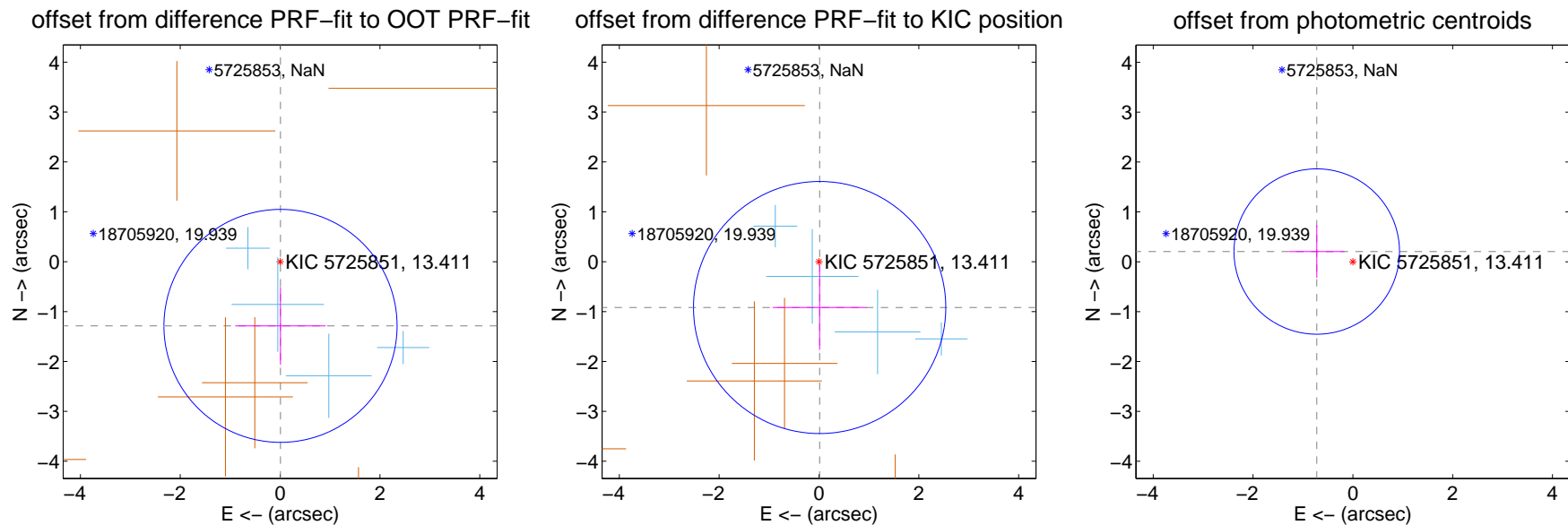
DV Centroid Data

Supplemental centroid analysis for 005725851-04. Kepler magnitude: 13.41. Transit SNR 10.98

There are 4 quarters with good PRF difference image offsets

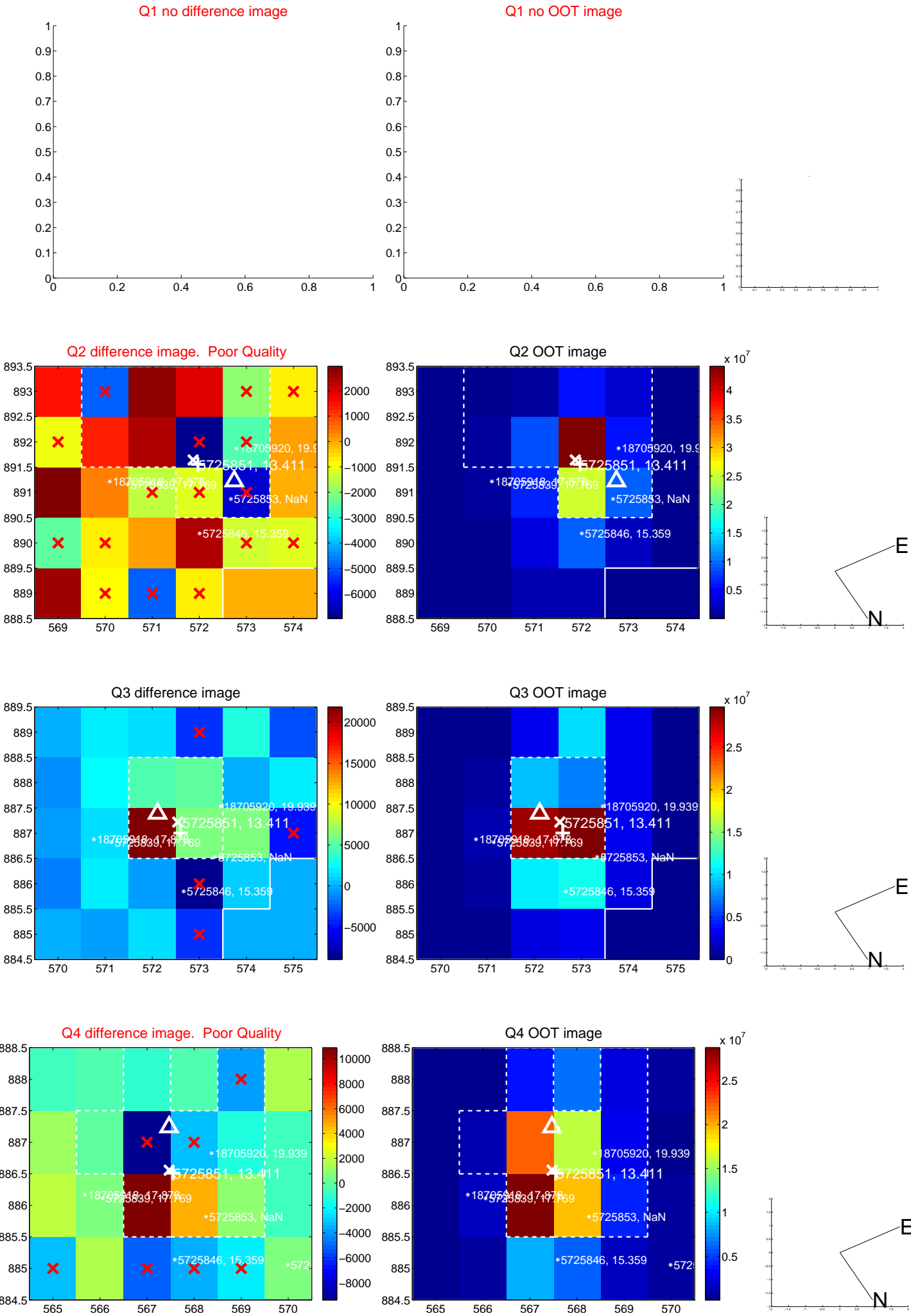
The direct PRF centroid is offset from the target star catalog position by about 0.98 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.287 ± 0.778	1.65	-0.008 ± 0.907	-1.287 ± 0.780
PRF-fit source offset from KIC position	0.919 ± 0.842	1.09	-0.013 ± 0.940	-0.918 ± 0.846
photometric centroid source offset	0.75 ± 0.55	1.36	0.72 ± 0.55	0.21 ± 0.53

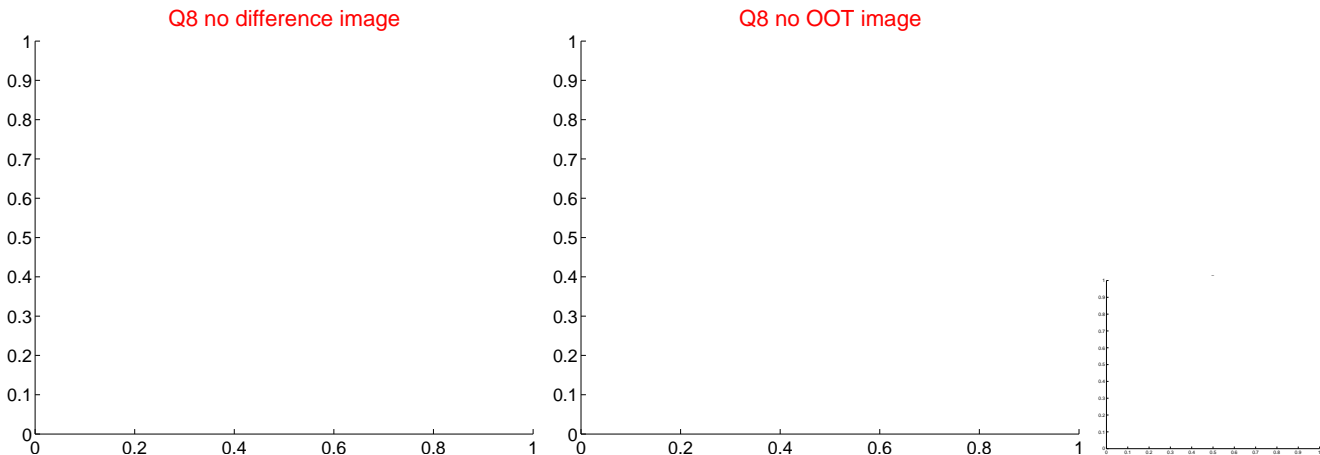
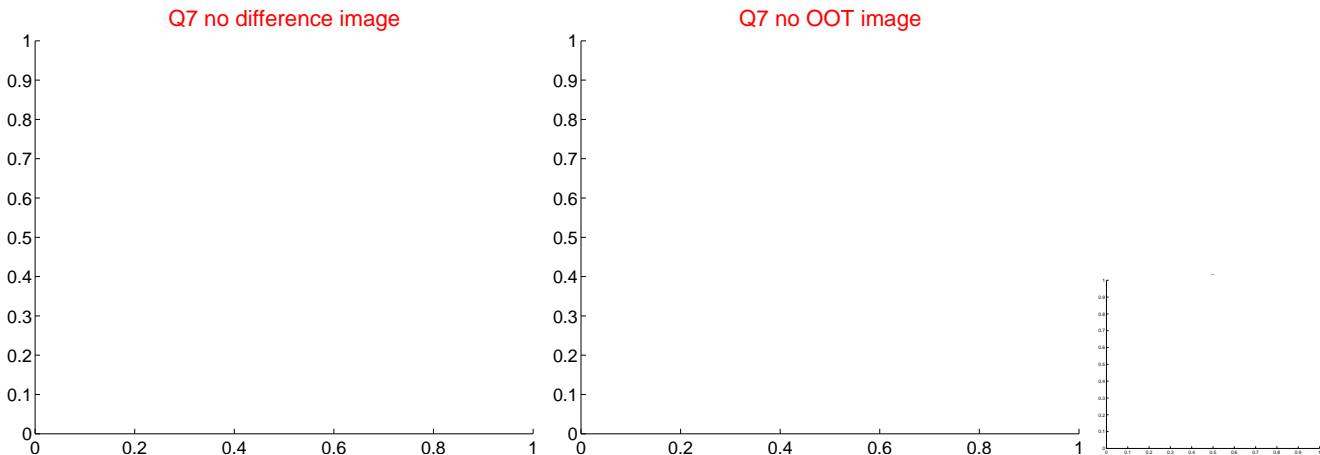
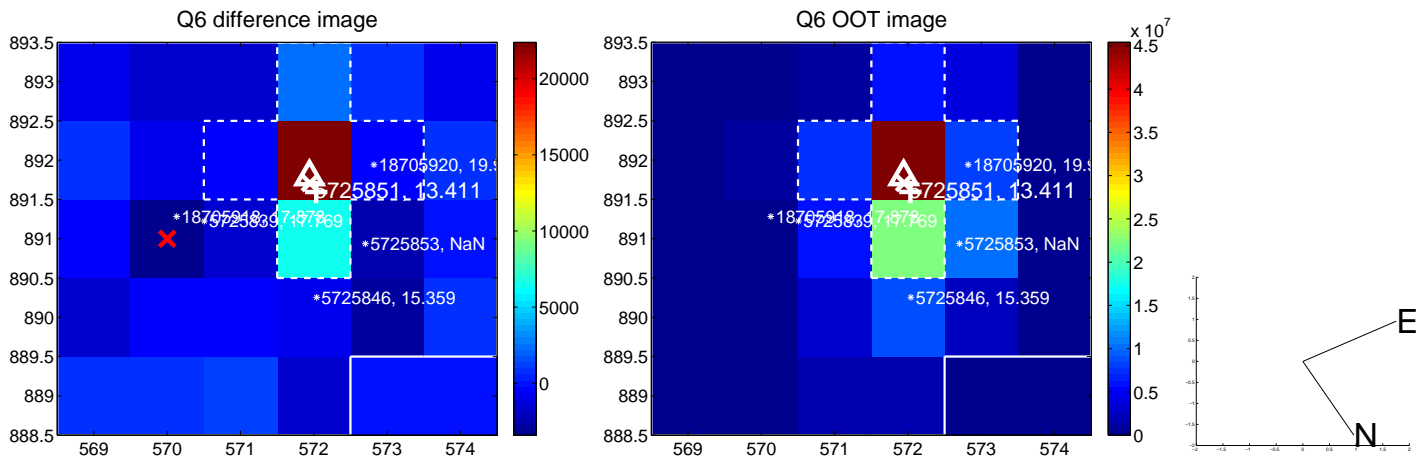
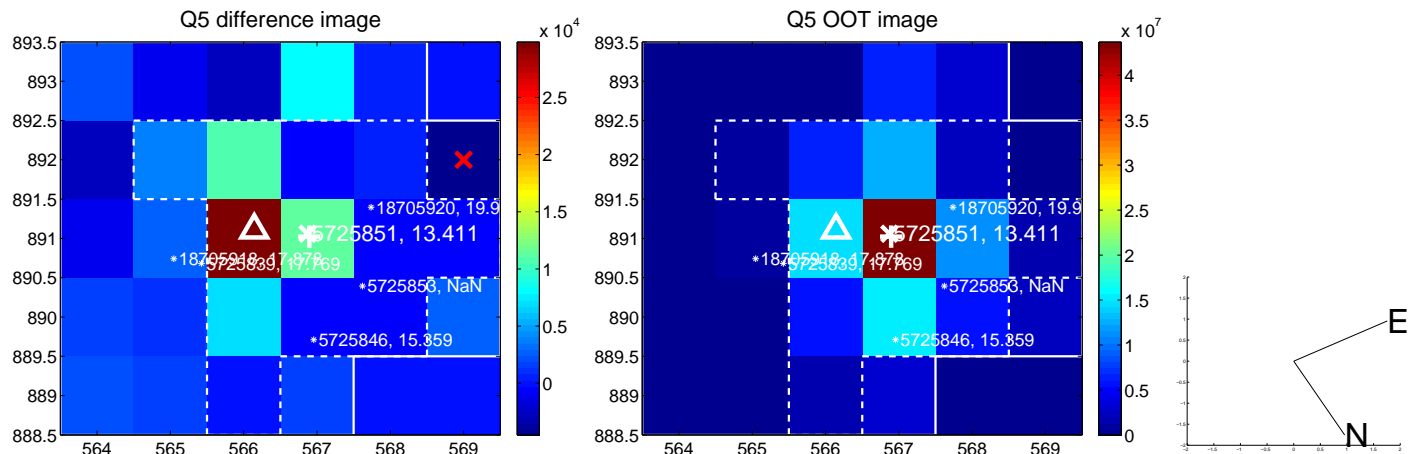


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets**; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

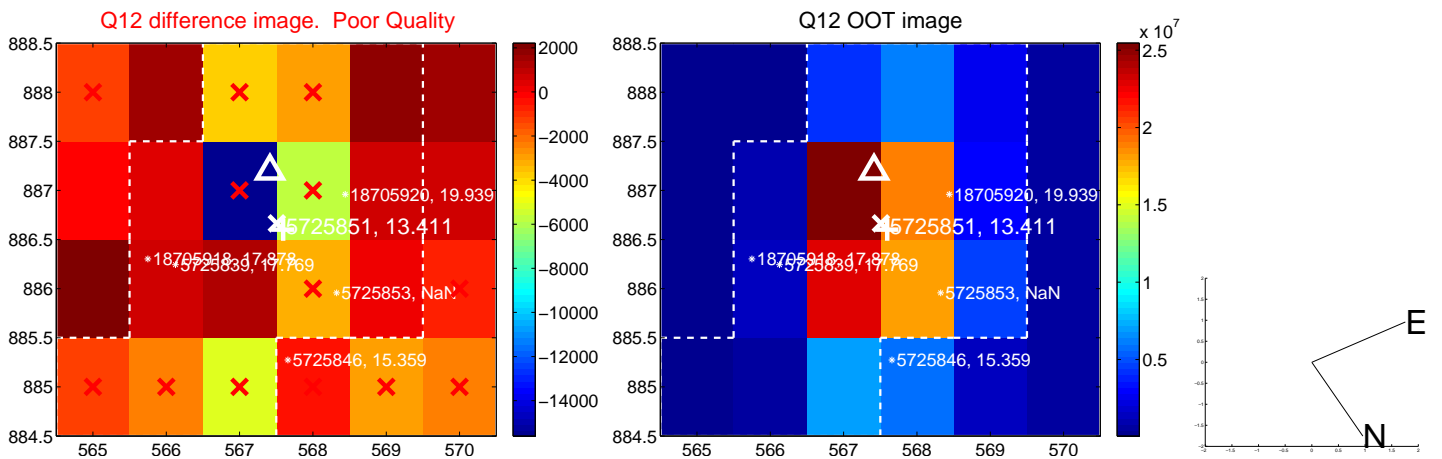
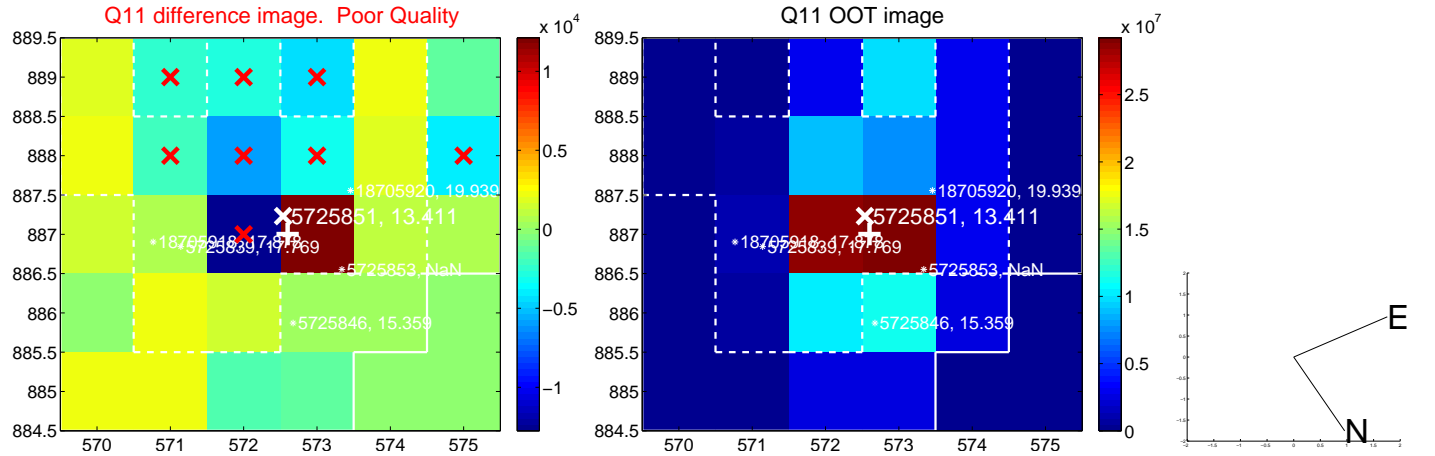
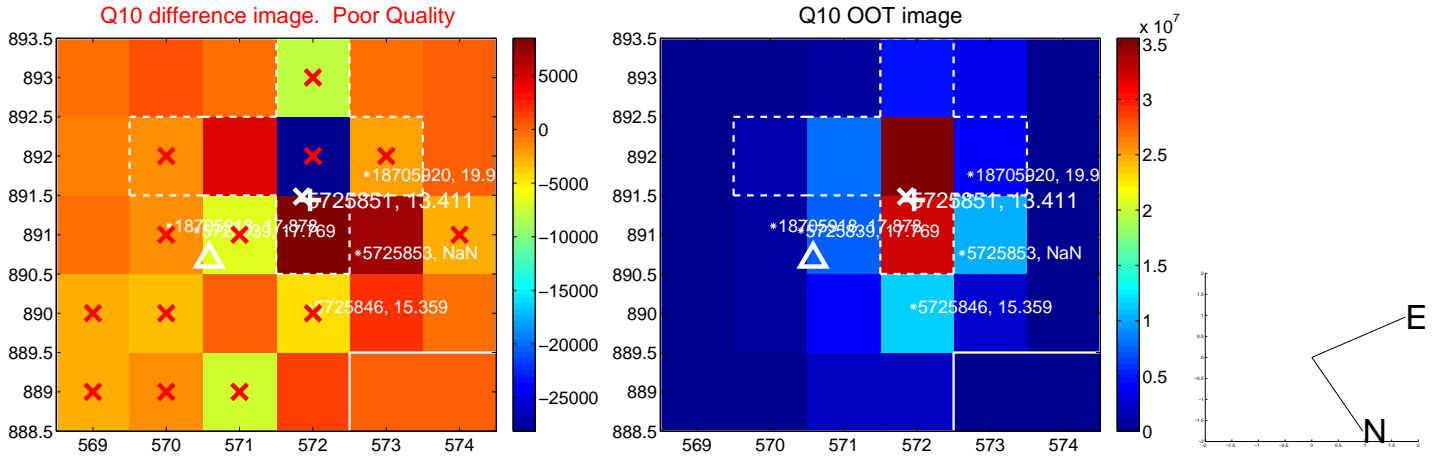
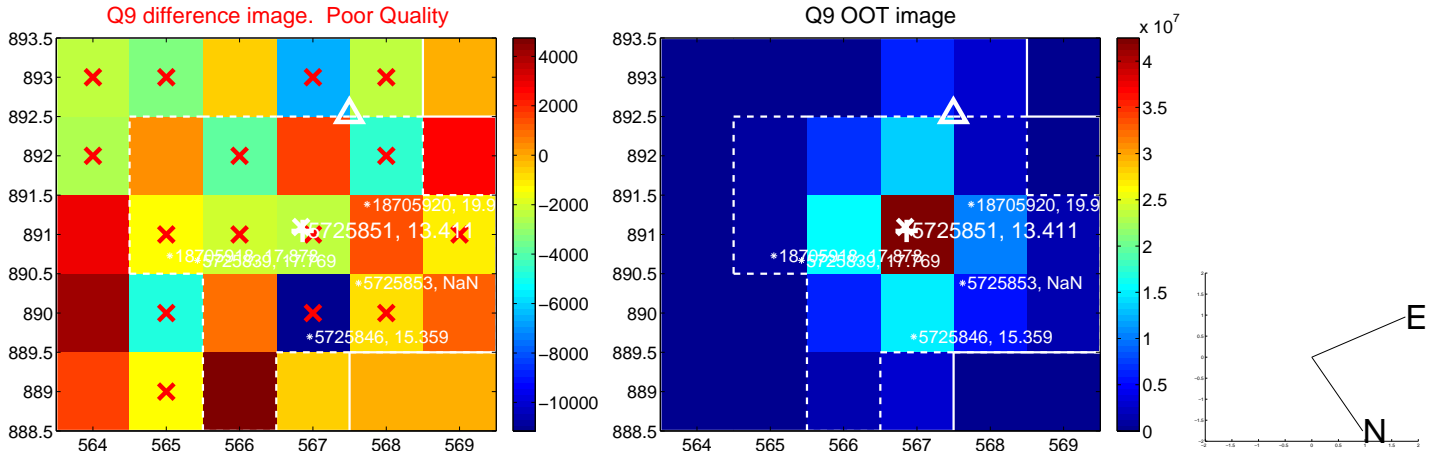
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



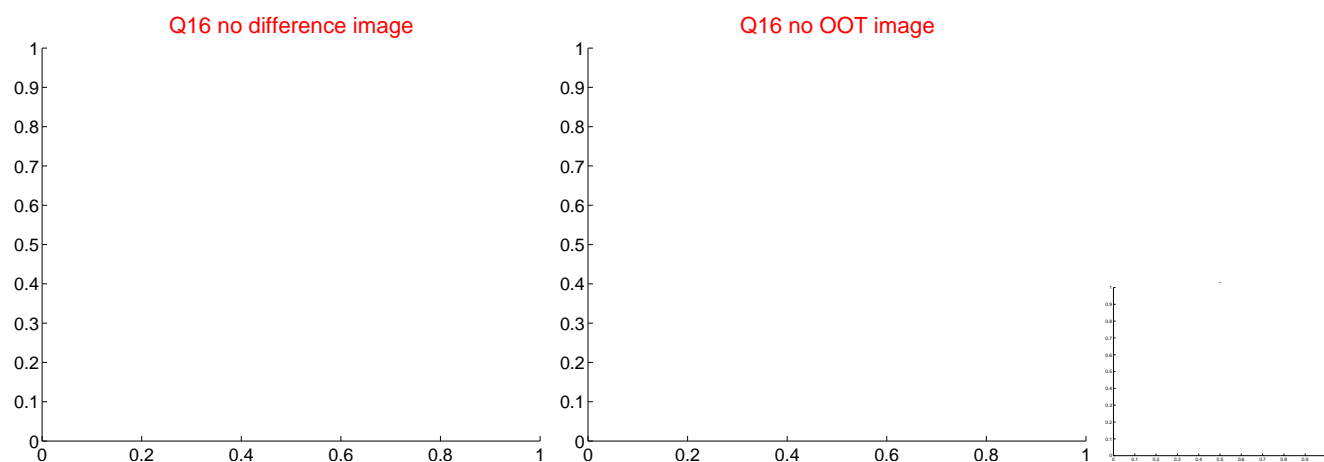
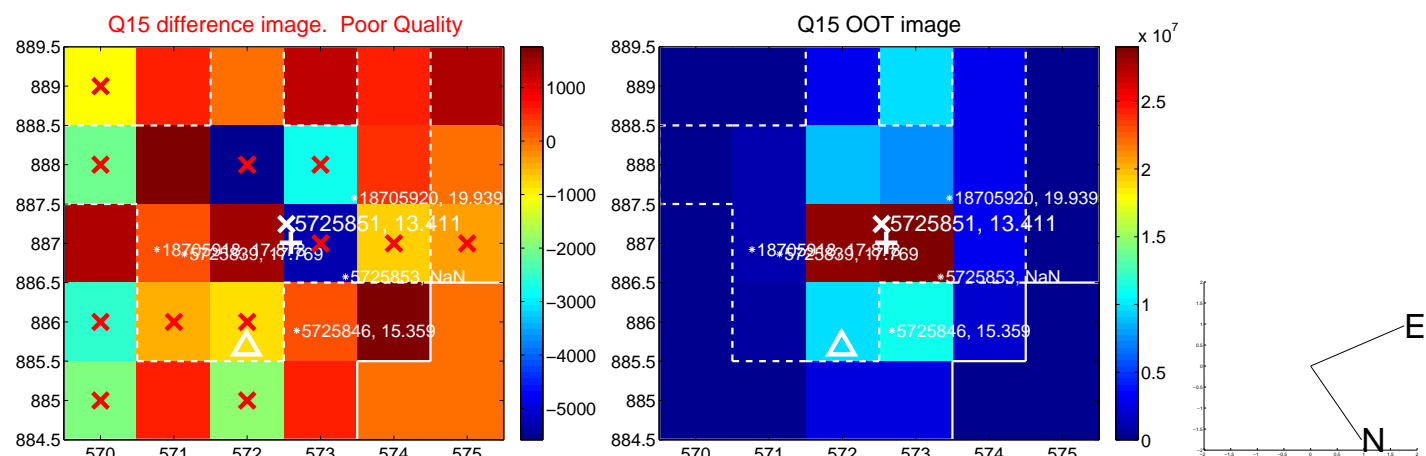
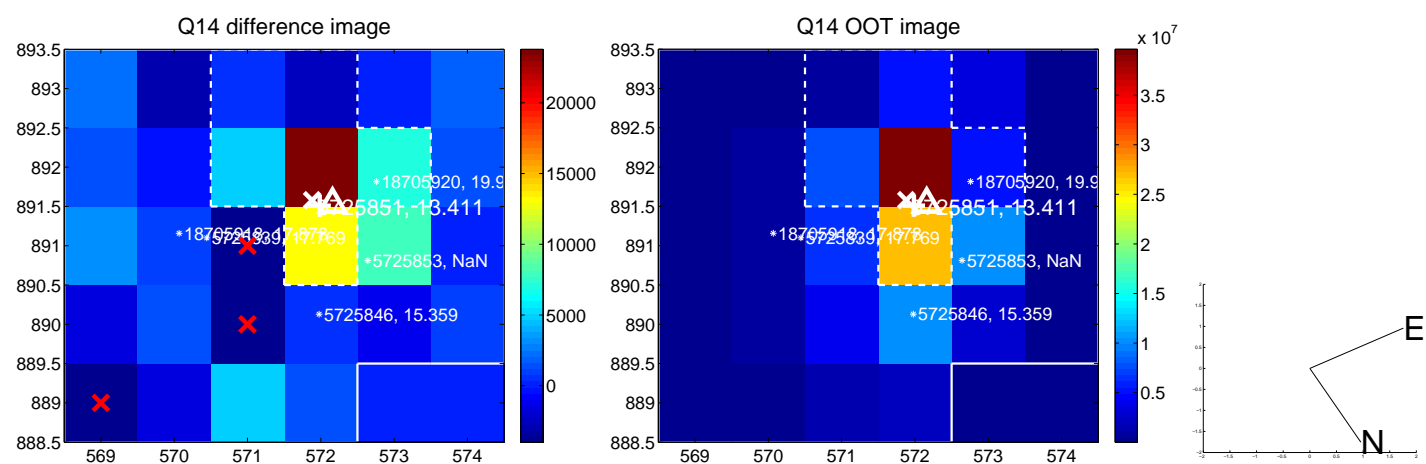
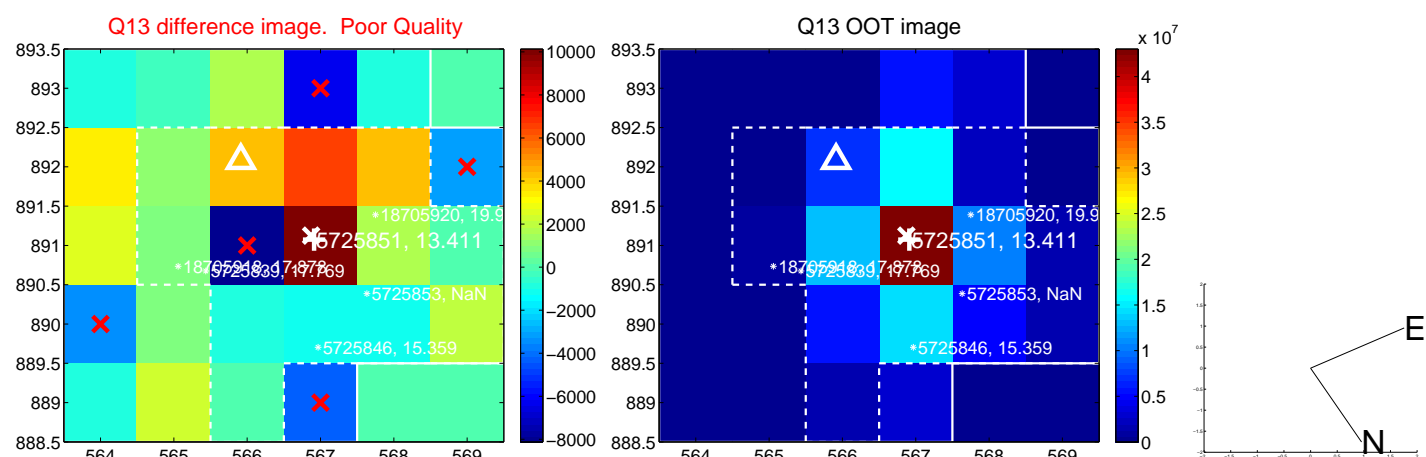
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



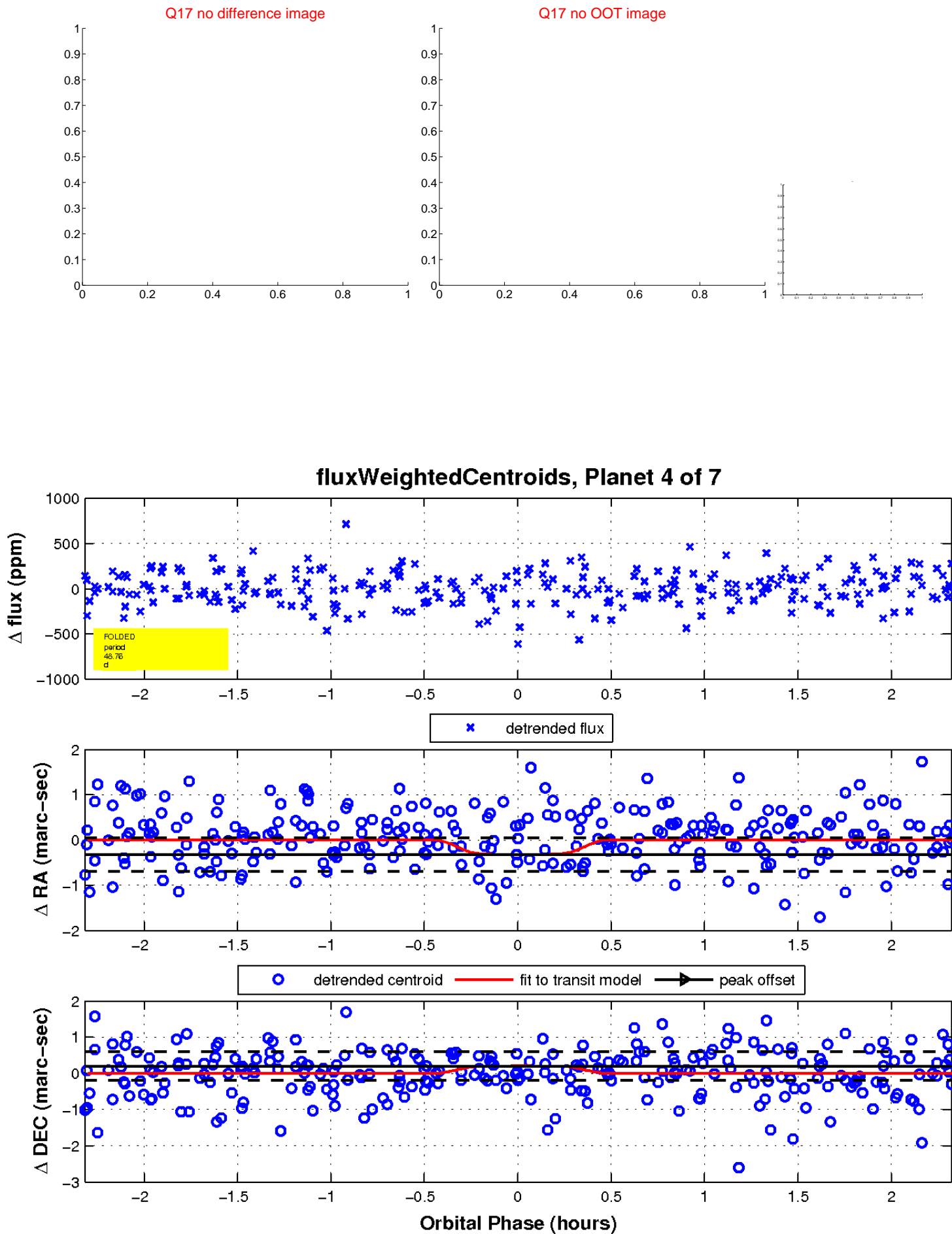
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



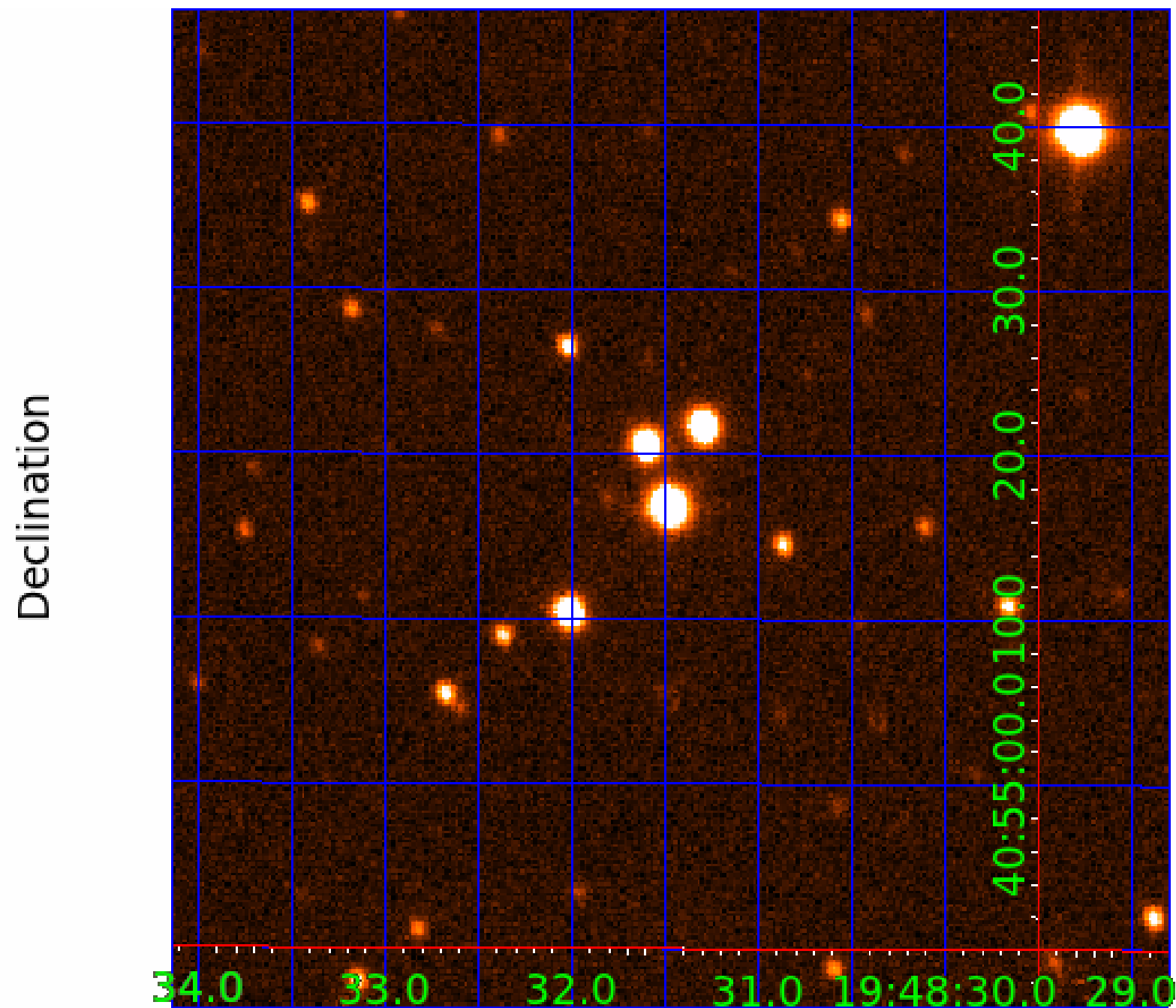
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



UKIRT Image



KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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 005725851-05

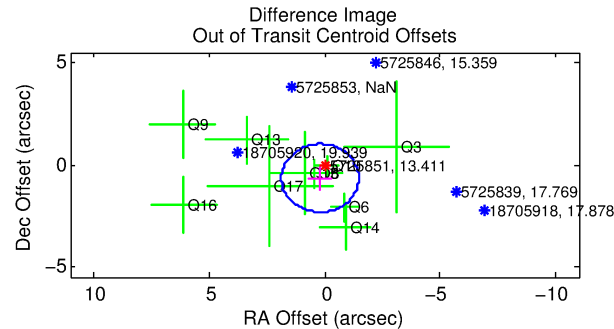
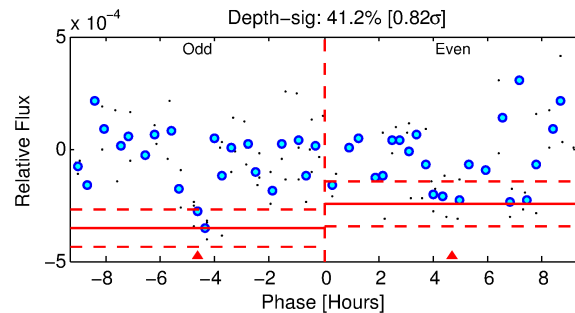
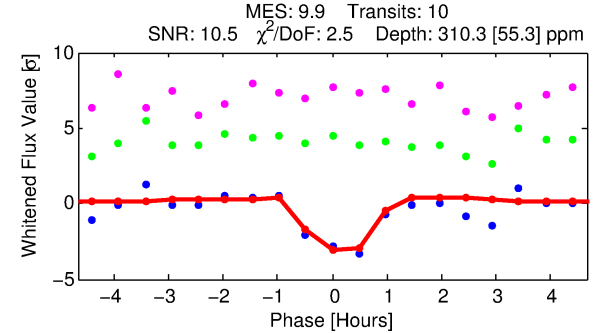
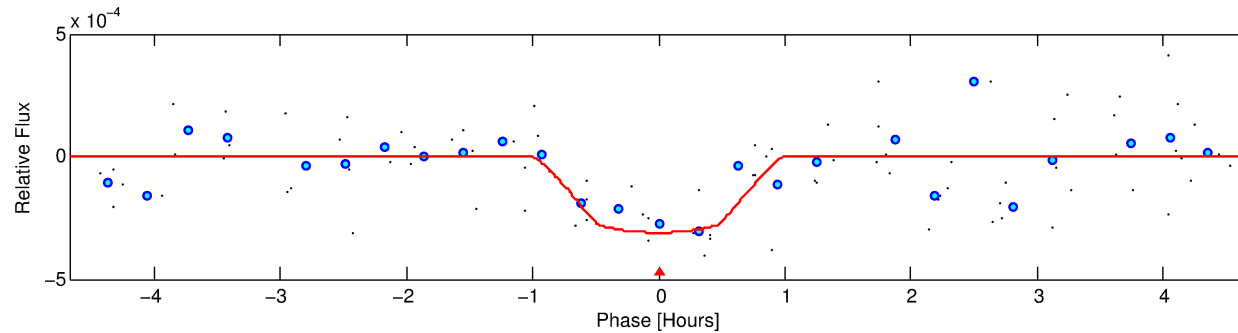
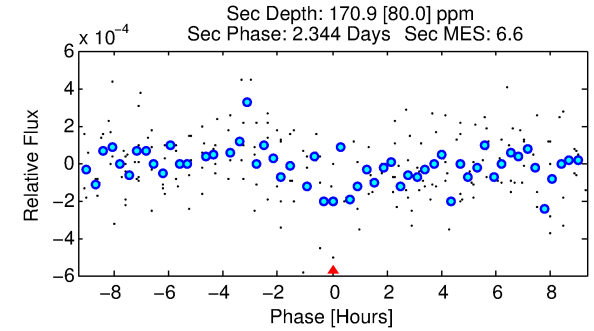
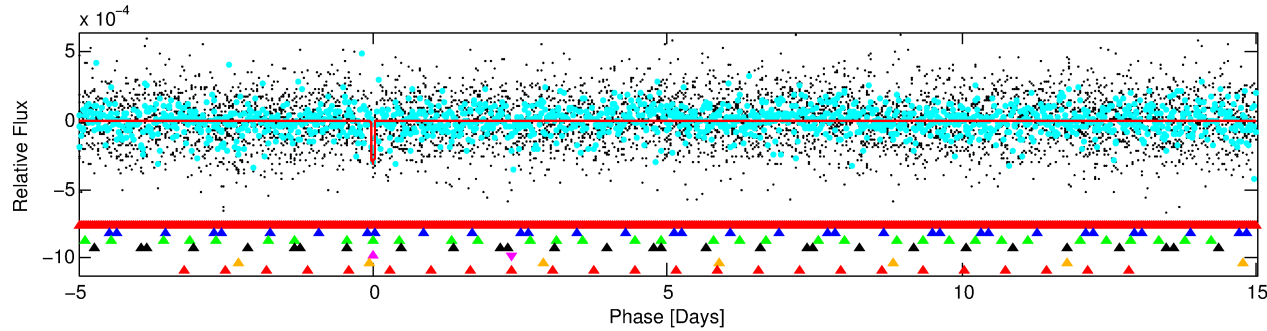
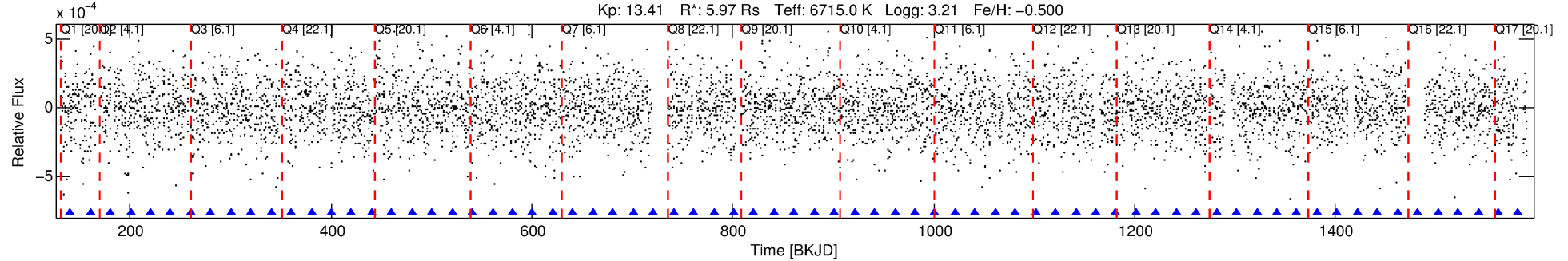
No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 5 of 7 Period: 20.022 d

KOI: K06620 Corr: No Ephemeris Match

Kp: 13.41 R*: 5.97 Rs Teff: 6715.0 K Logg: 3.21 Fe/H: -0.500



DV Fit Results:

Period = 20.02249 [0.00016] d
Epoch = 140.3832 [0.0063] BKJD
Rp/R* = 0.0179 [0.0338]
a/R* = 60.35 [672.63]
b = 0.81 [4.73]
Seff = 1892.51 [1581.10]
Teq = 1682 [351] K
Rp = 11.69 [22.84] Re
a = 0.1852 [0.0940] AU
Ag = 23.60 [91.70] [0.25σ]
Teffp = 5731 [5445] K [0.74σ]

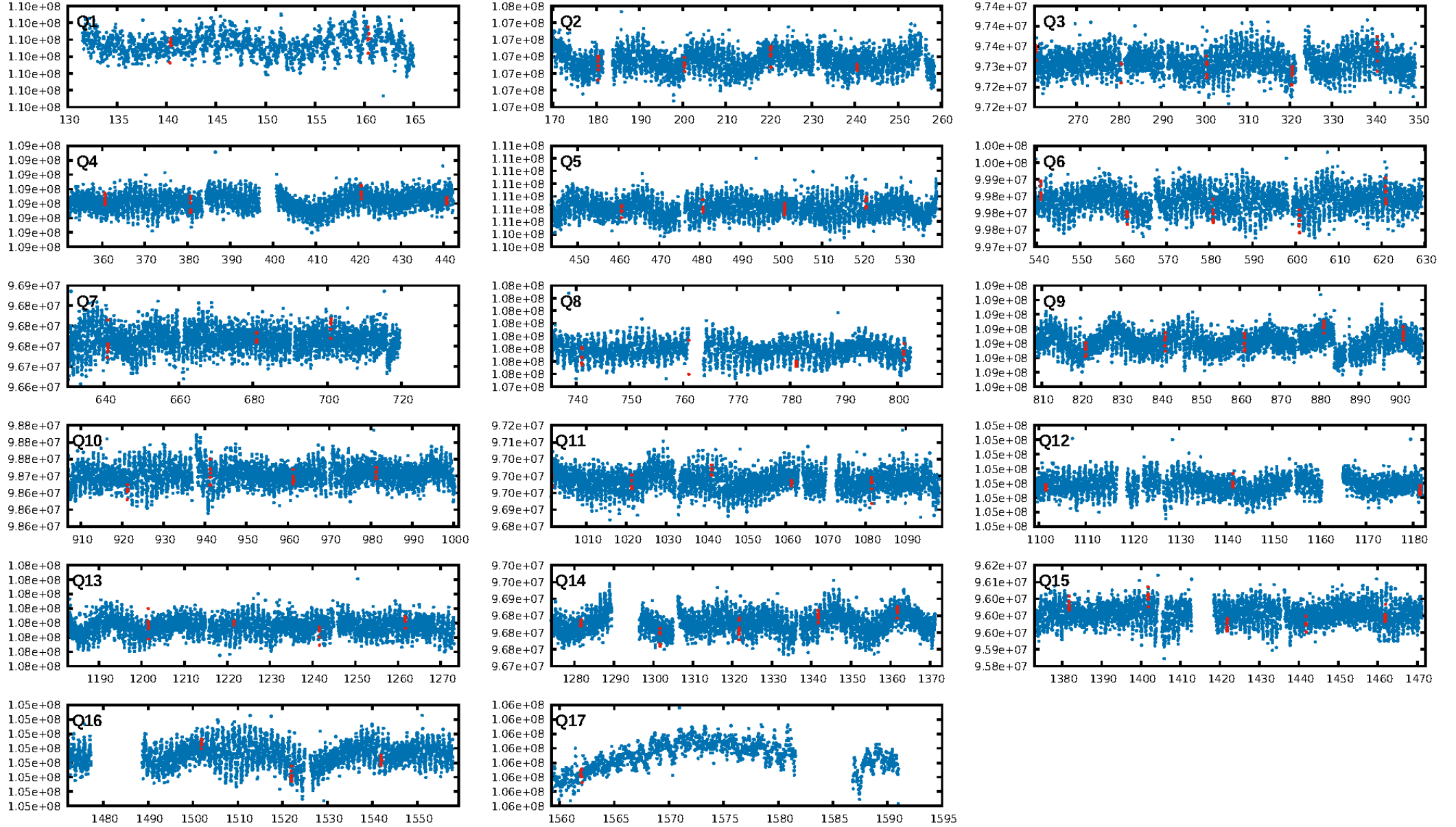
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [55.28σ]
LongPeriod-sig: 100.0% [228.30σ]
ModelChiSquare2-sig: 18.4%
ModelChiSquareGof-sig: 95.2%
Bootstrap-pfa: 1.33e-09
RollingBand-fgt: 1.00 [9/9]
GhostDiagnostic-chr: -35.55
Centroid-sig: 67.2%
Centroid-so: 0.462 arcsec [1.13σ]
OotOffset-rm: 0.689 arcsec [1.24σ]
OotOffset-st: 3/2/2/3 [10]
KicOffset-rm: 0.323 arcsec [0.35σ]
KicOffset-st: 3/2/2/3 [10]
DiffImageQuality-fgm: 0.30 [3/10]
DiffImageOverlap-fno: 0.53 [9/17]

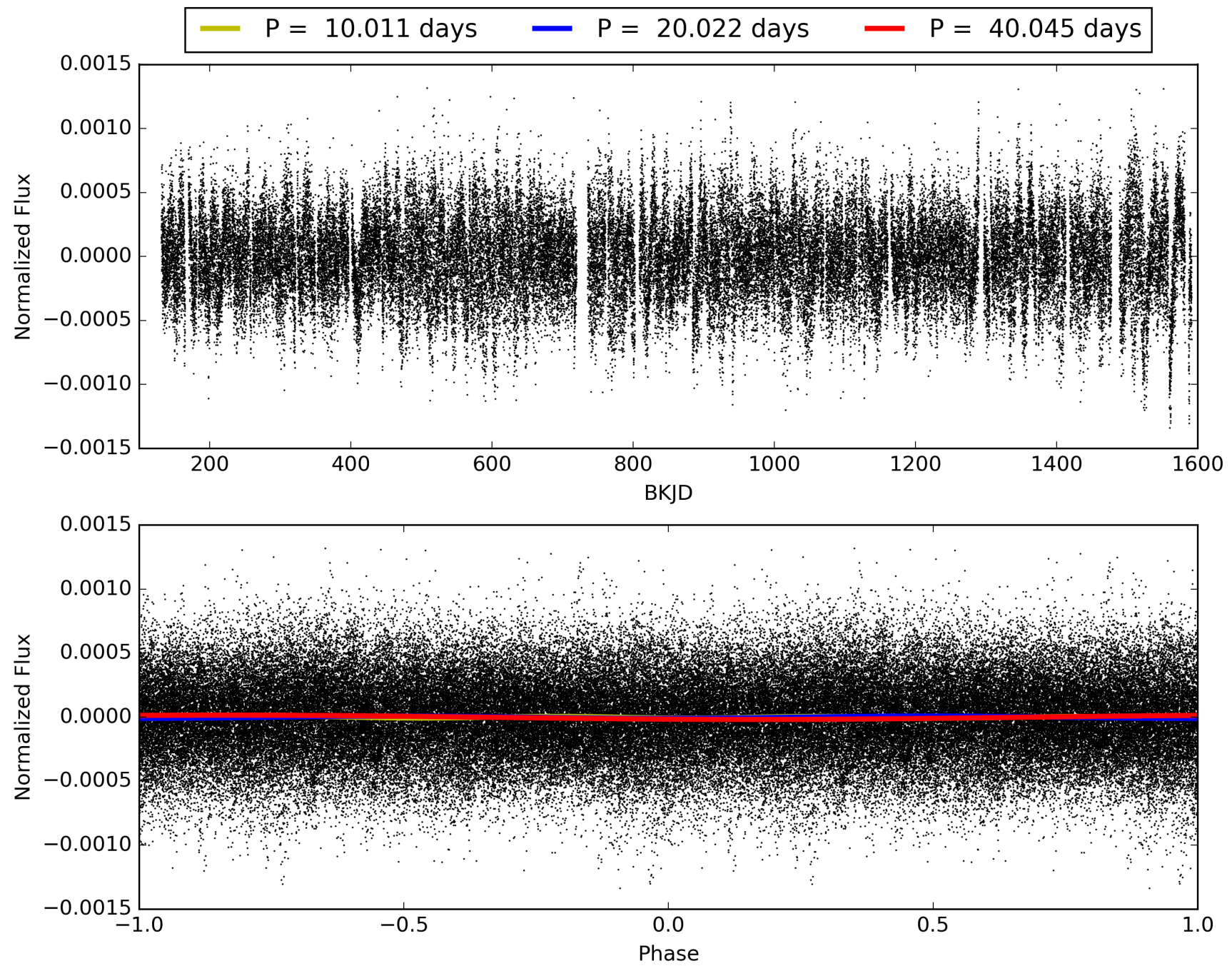
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:41:30 Z

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

TCE 005725851-05, PDC Light Curves

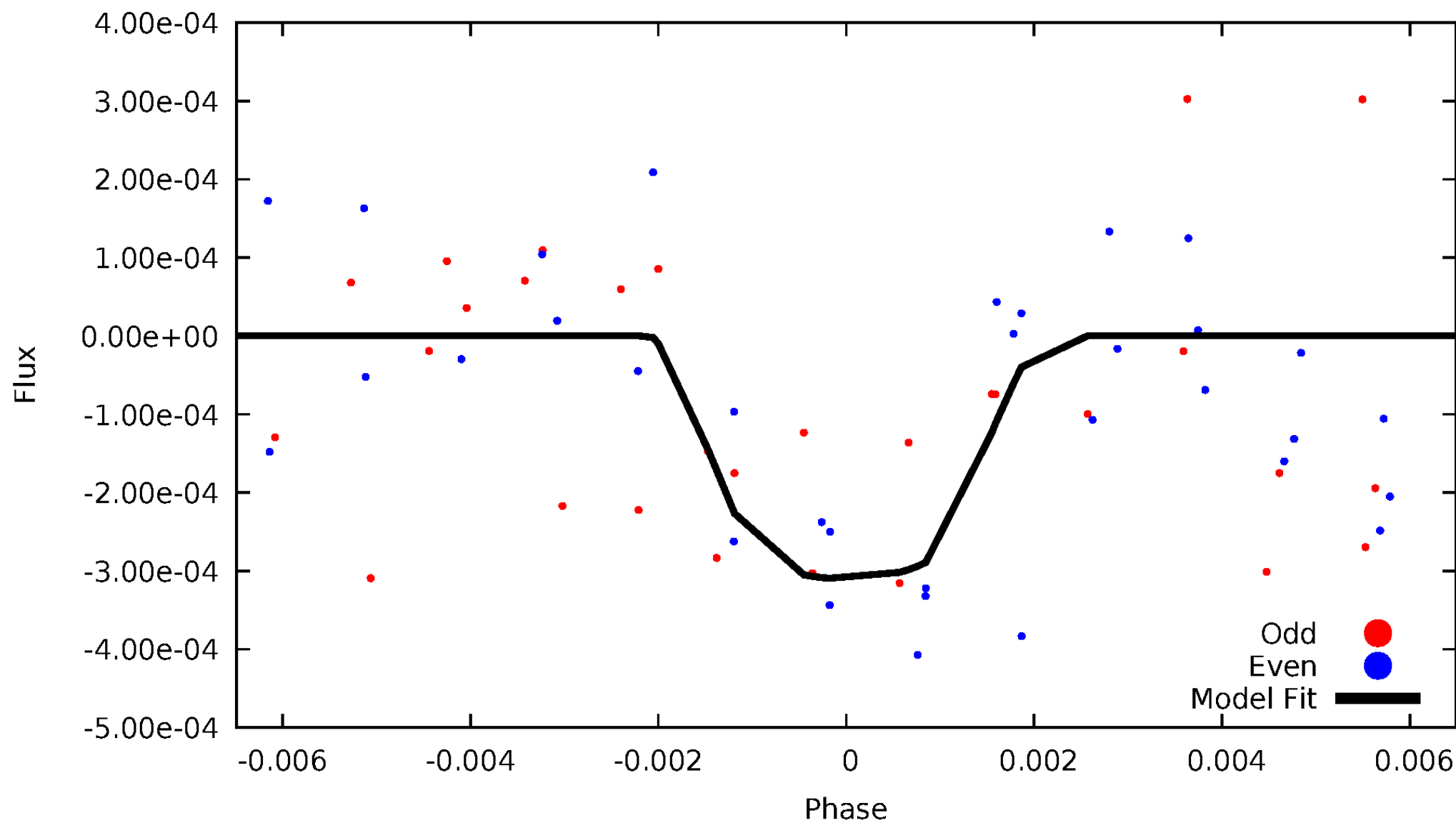


TCE 005725851-05



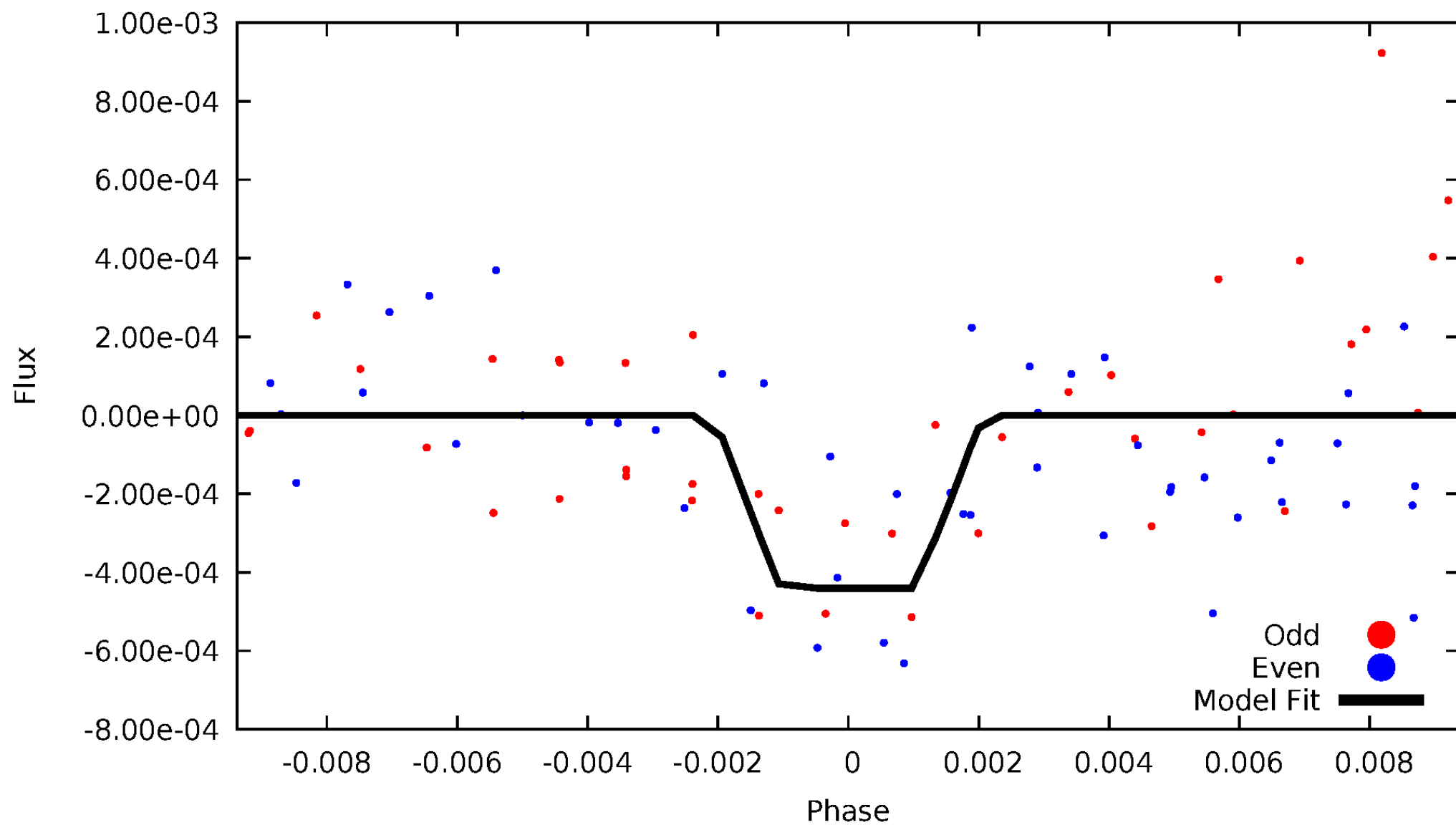
DV Odd/Even

TCE 005725851-05



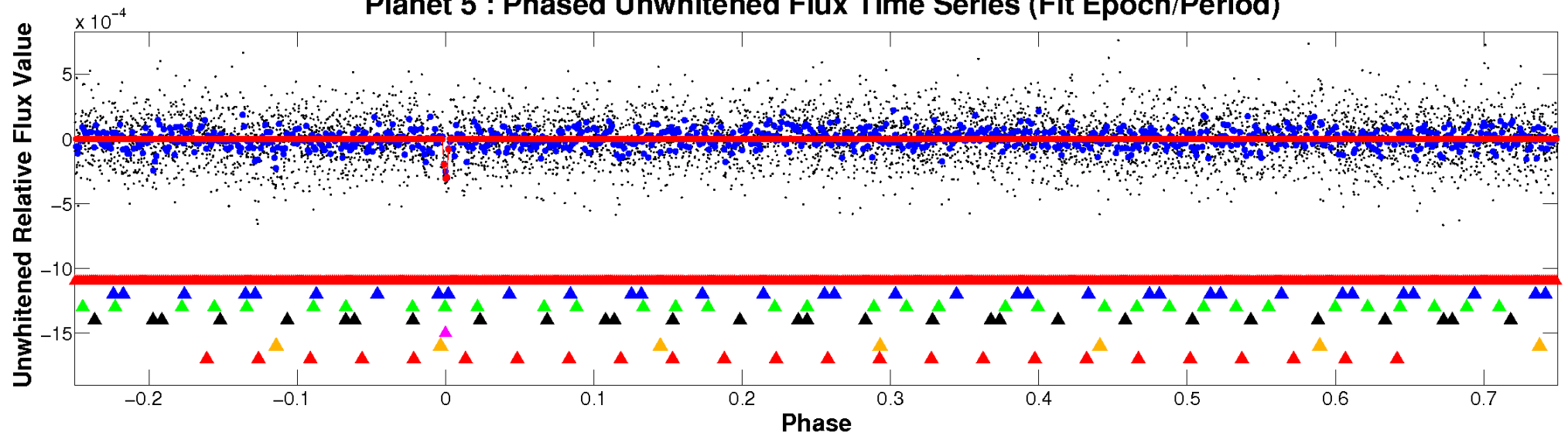
ALT Odd/Even

TCE 005725851-05

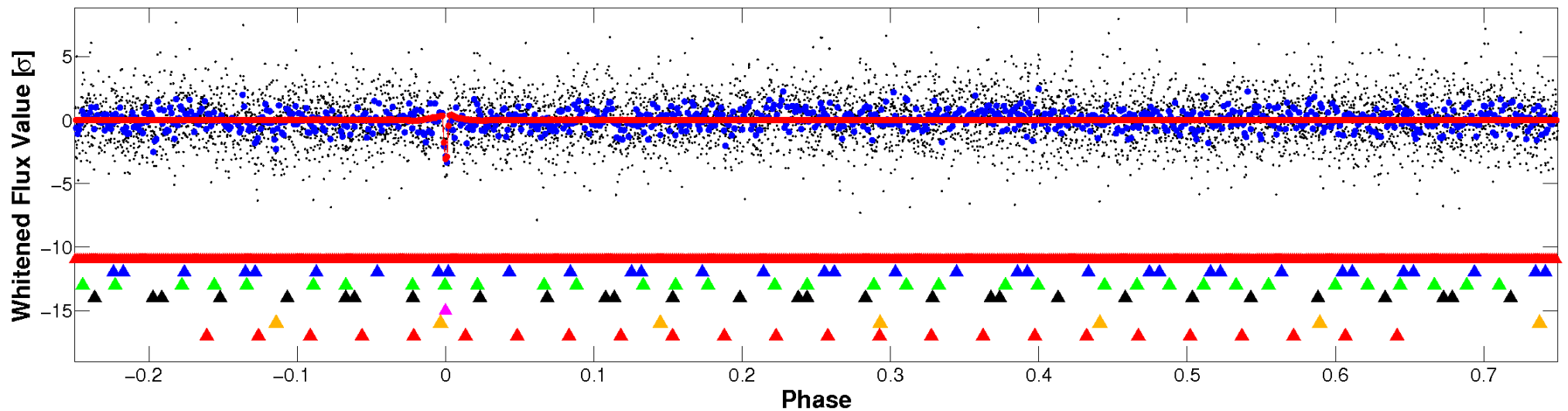


Non-Whitened Vs. Whitened Light Curve

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

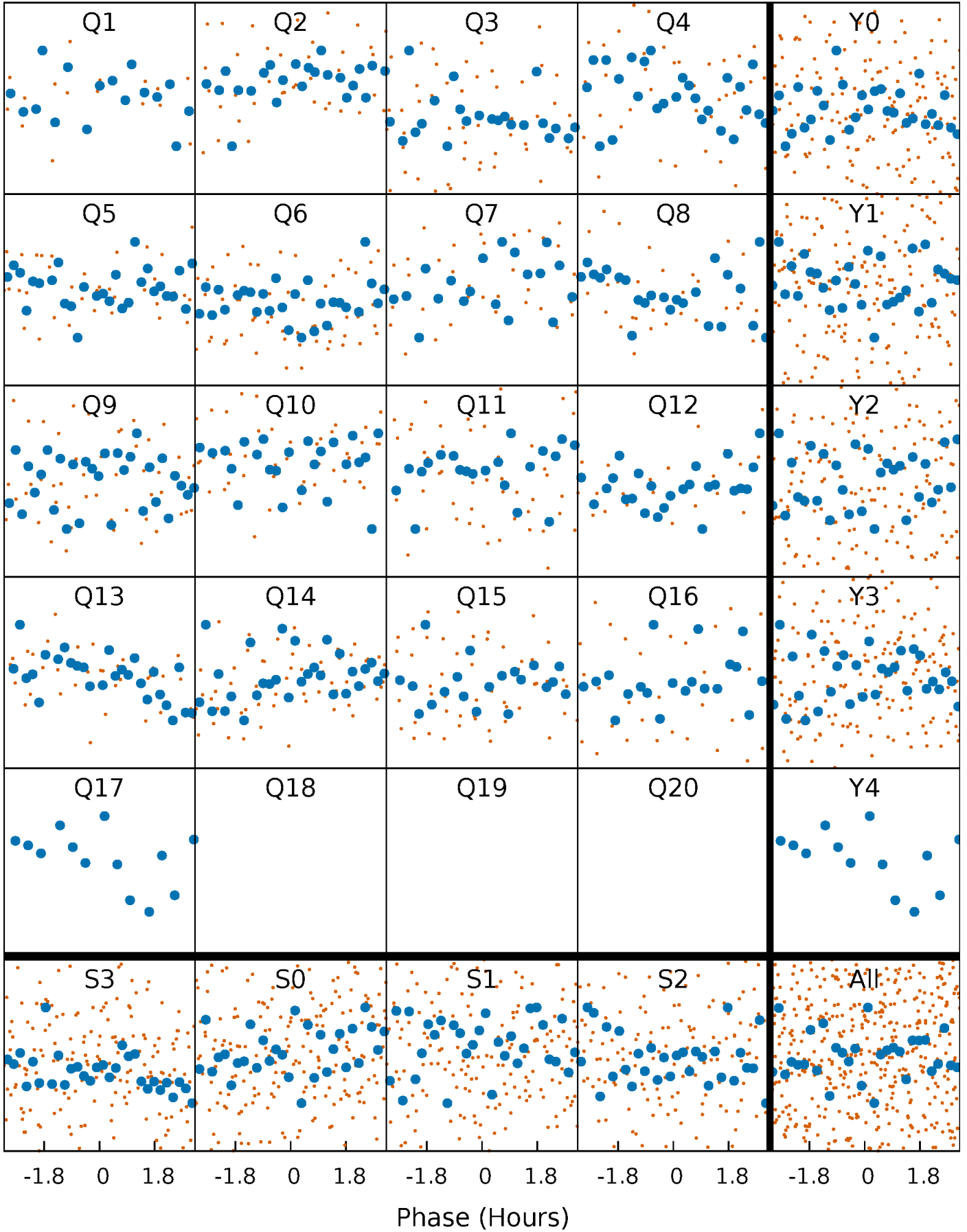


Planet 5 : Phased Whitened Flux Time Series (Fit Epoch/Period)



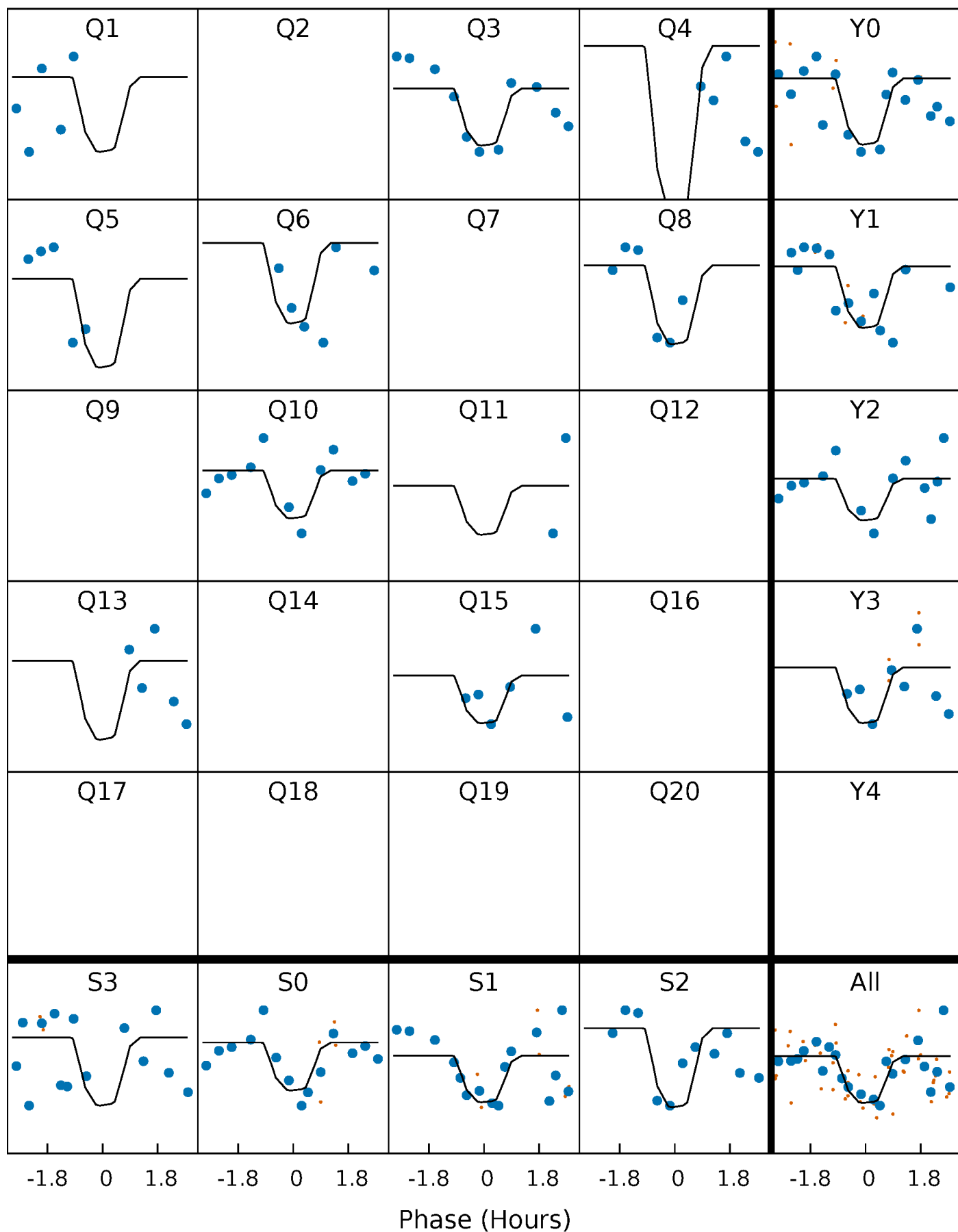
PDC Quarter-Phased Transit Curves

TCE 005725851-05 P= 20.022492 Days $T_0=140.383164$ (BKJD)



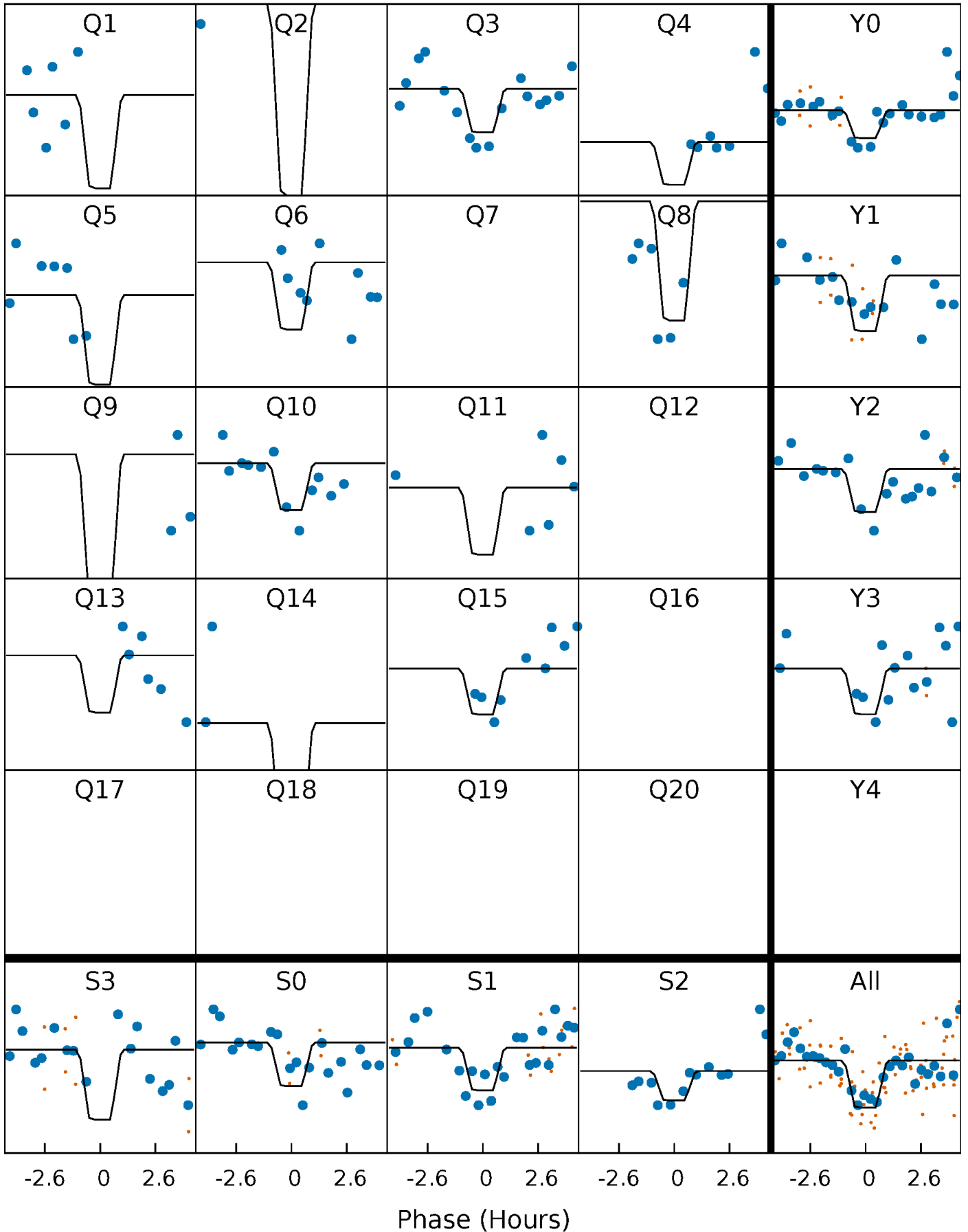
DV Quarter-Phased Transit Curves

TCE 005725851-05 $P = 20.022492$ Days $T_0 = 140.383164$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

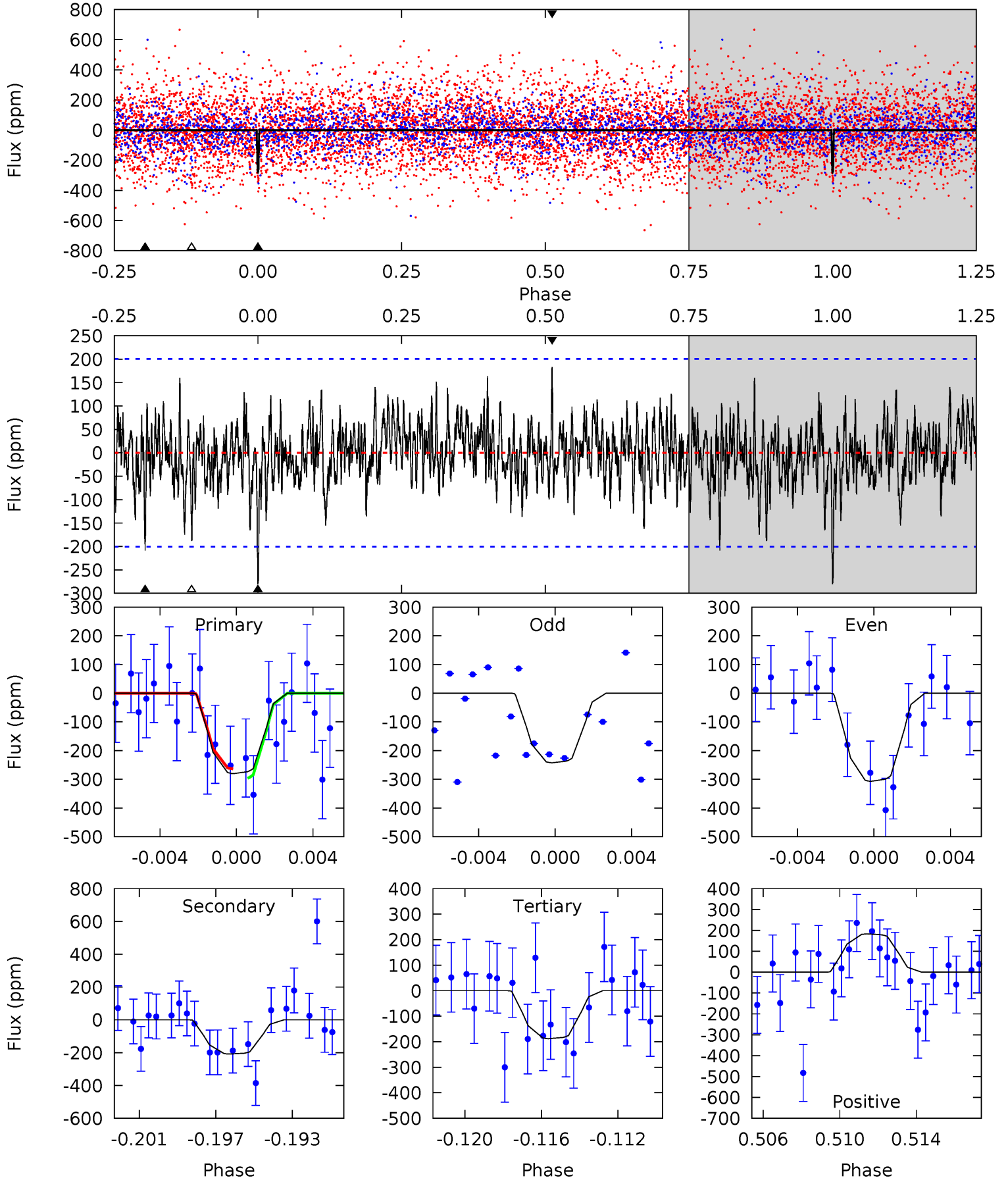
TCE 005725851-05 $P = 20.022245$ Days $T_0 = 140.391112$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-05, $P = 20.022492$ Days, $E = 120.360672$ Days

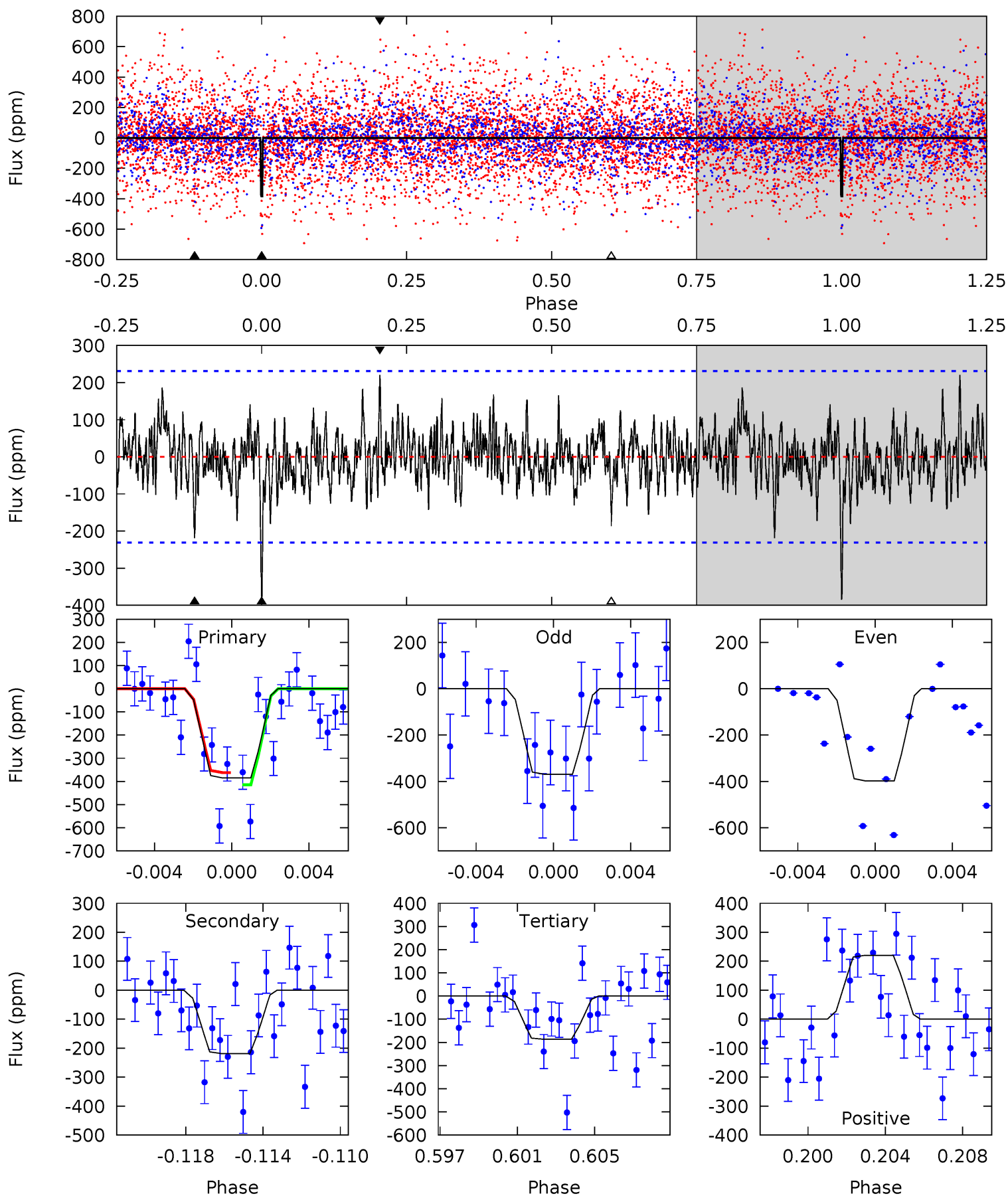
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.28	5.41	4.88	4.76	5.21	2.89	1.39	2.40	2.52	0.53	0.66	0.84	1.04	0.40	0.43



Alt Model-Shift Uniqueness Test

005725851-05, $P = 20.022245$ Days, $E = 120.368867$ Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
8.67	4.92	4.20	4.96	5.20	2.88	1.31	4.47	3.71	0.72	-0.04	0.32	0.89	0.36	0.59



Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-05 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	A_{obs}
DV	-208 ± 39	$16.80^{+16.93}_{-11.01}$	2245^{+201}_{-294}	4756^{+3105}_{-1104}	13^{+106}_{-10}
Alt.	-219 ± 44	$17.40^{+17.24}_{-11.29}$	2262^{+205}_{-291}	4718^{+3382}_{-1062}	13^{+90}_{-10}

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

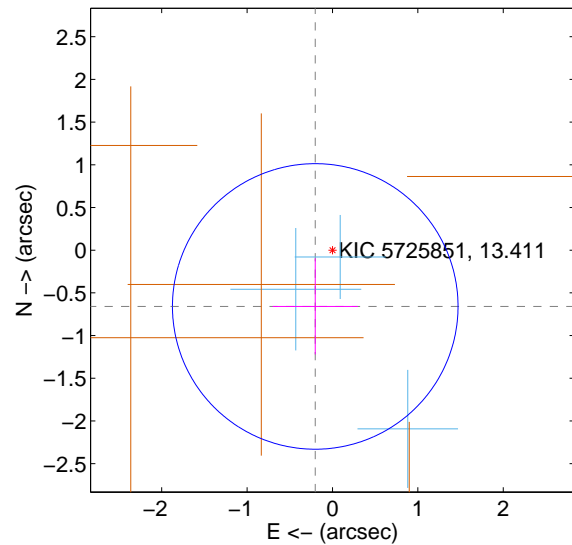
Supplemental centroid analysis for 005725851-05. Kepler magnitude: 13.41. Transit SNR 10.46

There are 3 quarters with good PRF difference image offsets

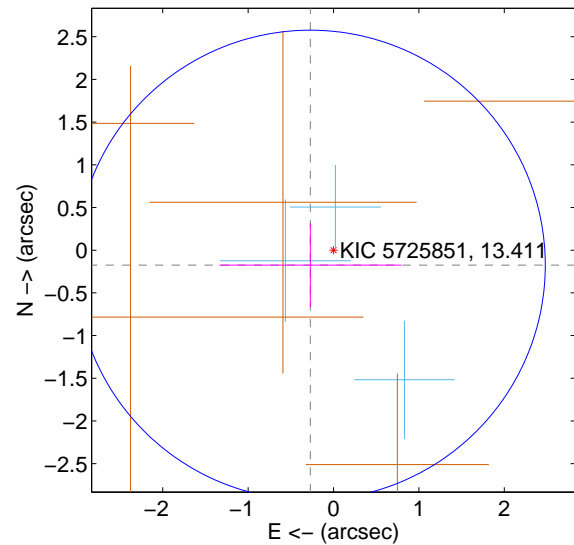
The direct PRF centroid is offset from the target star catalog position by about 0.24 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.689 ± 0.557	1.24	0.202 ± 0.499	-0.659 ± 0.562
PRF-fit source offset from KIC position	0.323 ± 0.917	0.35	0.271 ± 1.065	-0.175 ± 0.491
photometric centroid source offset	0.46 ± 0.41	1.13	-0.08 ± 0.43	0.45 ± 0.41

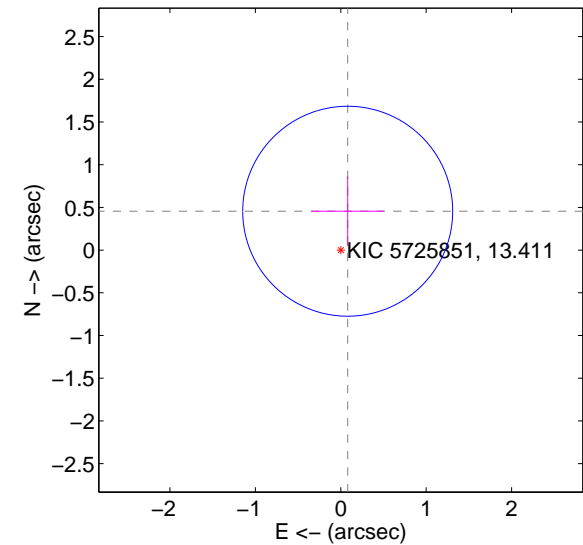
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

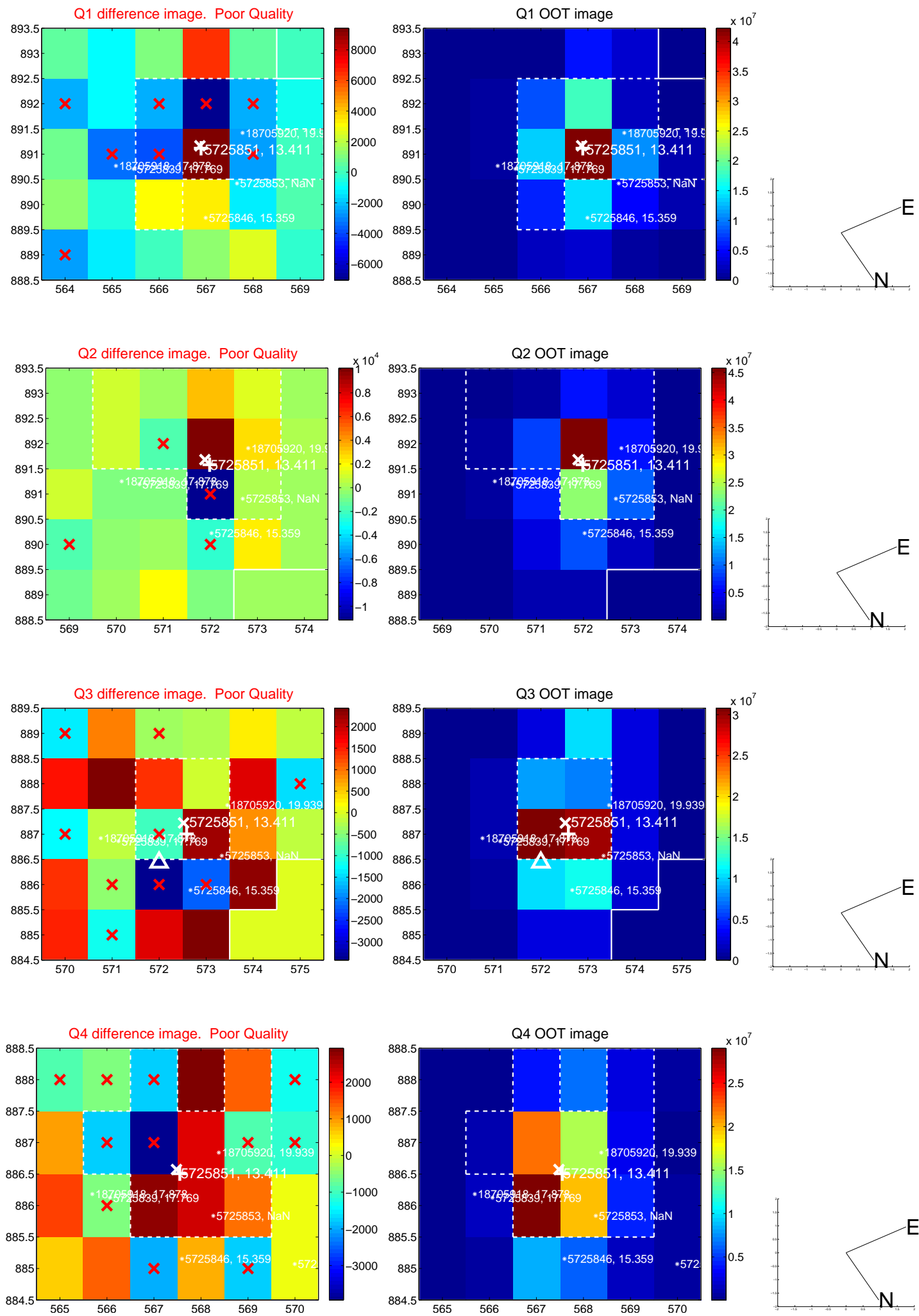


offset from photometric centroids

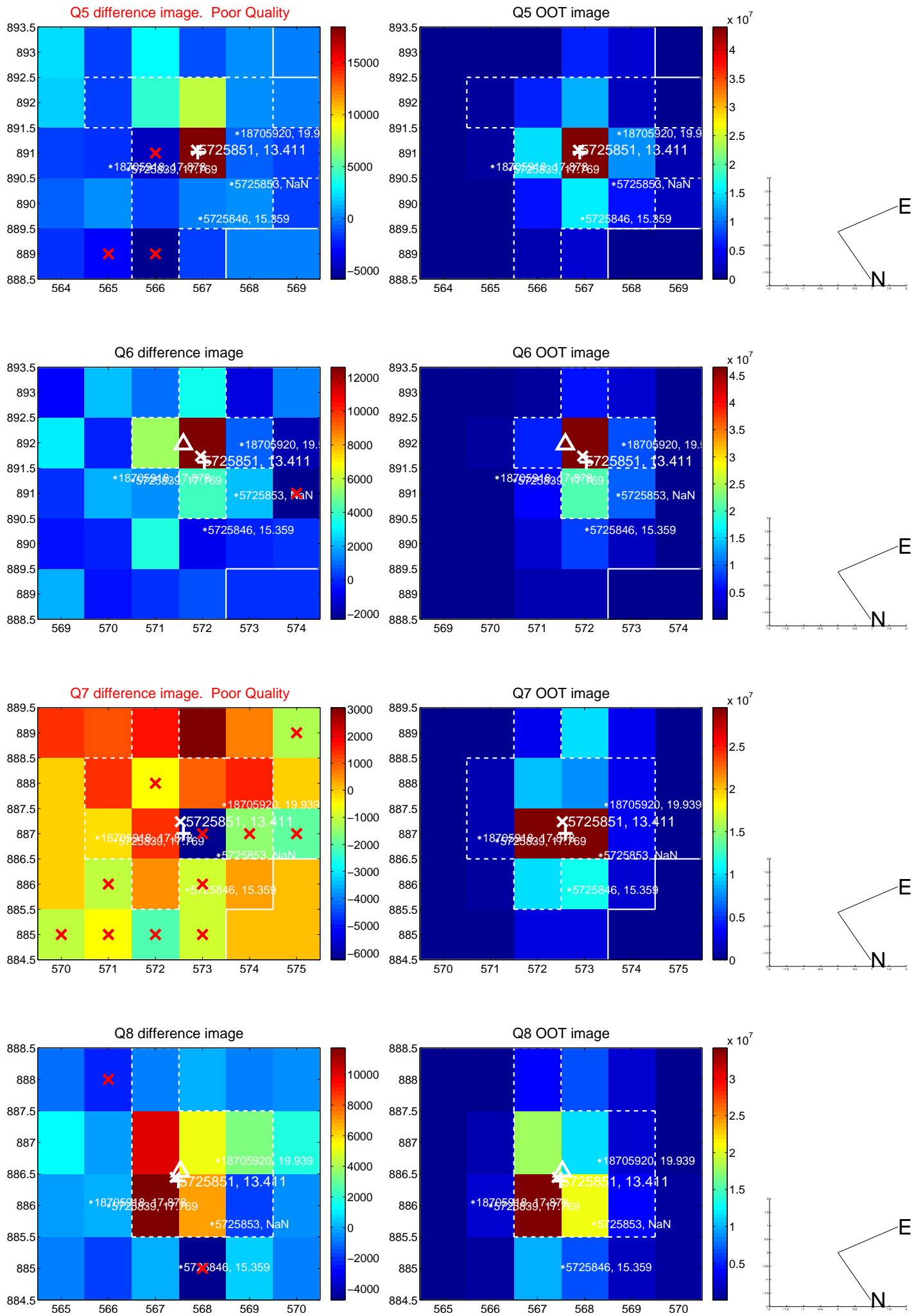


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

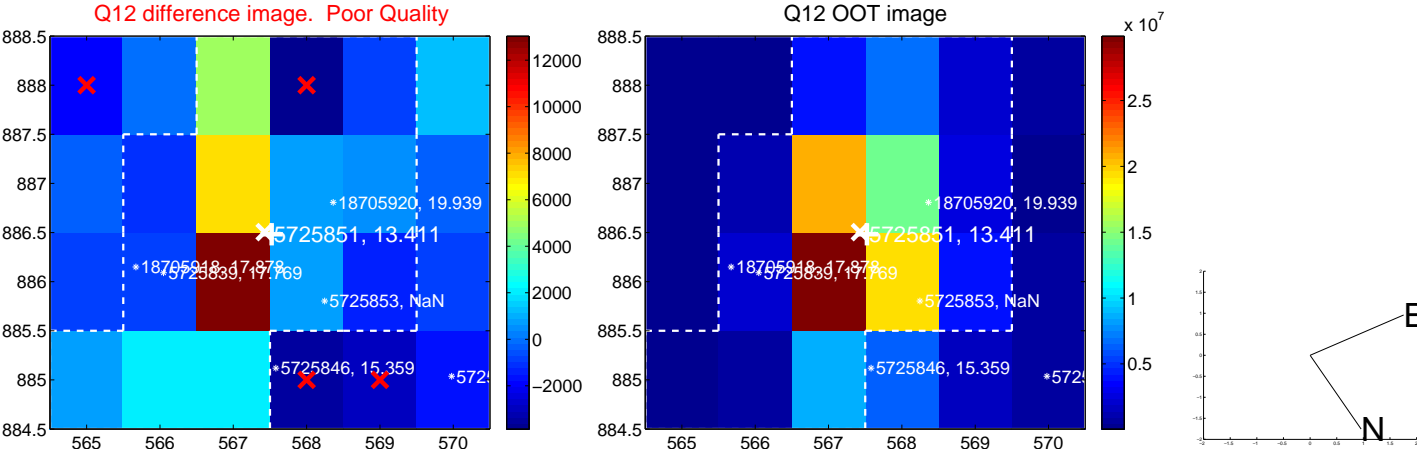
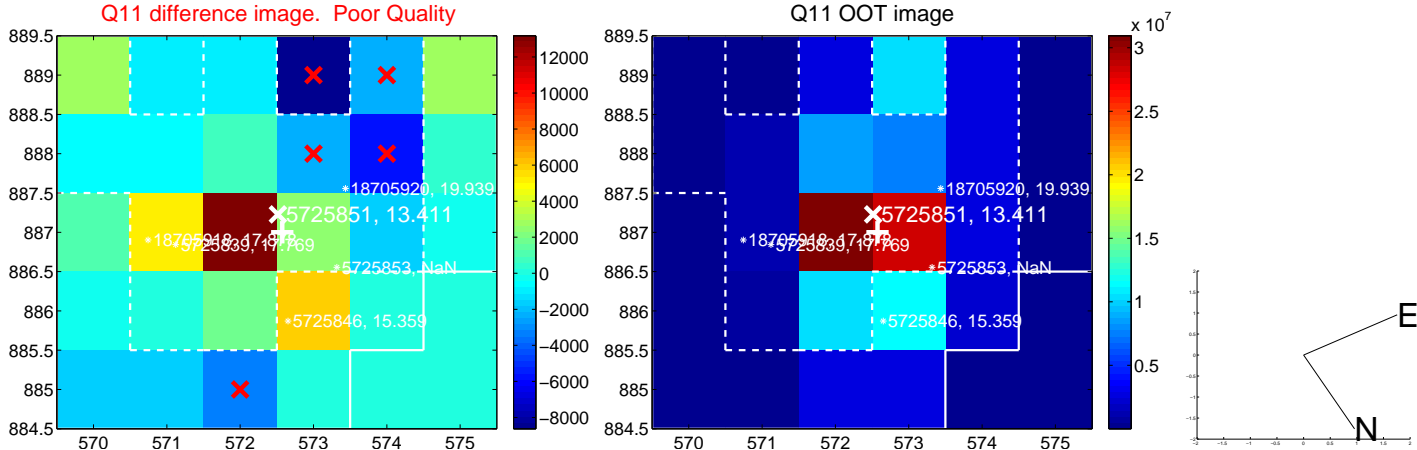
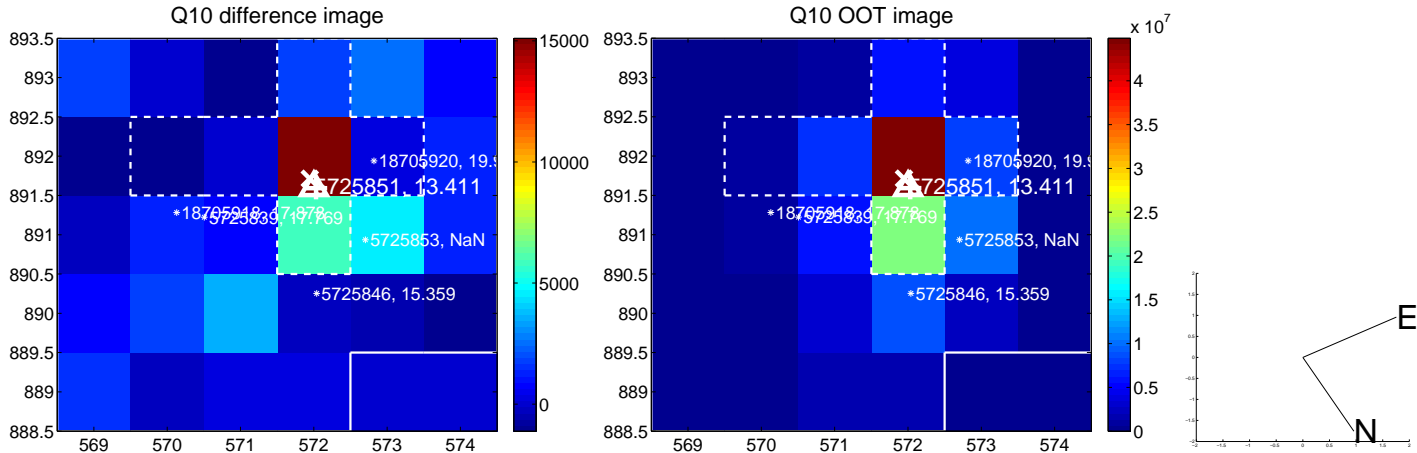
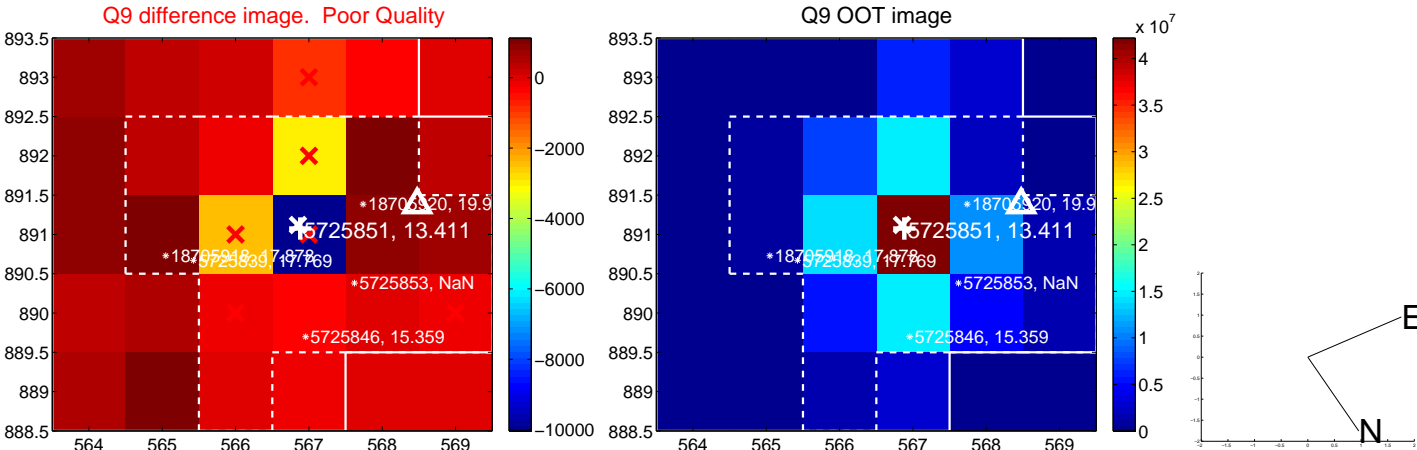
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



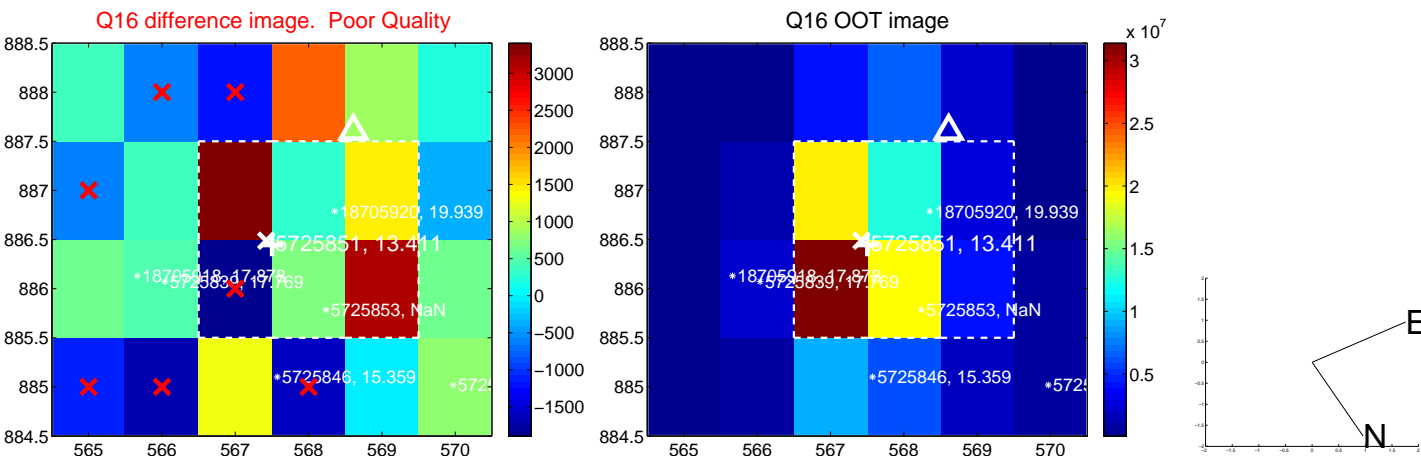
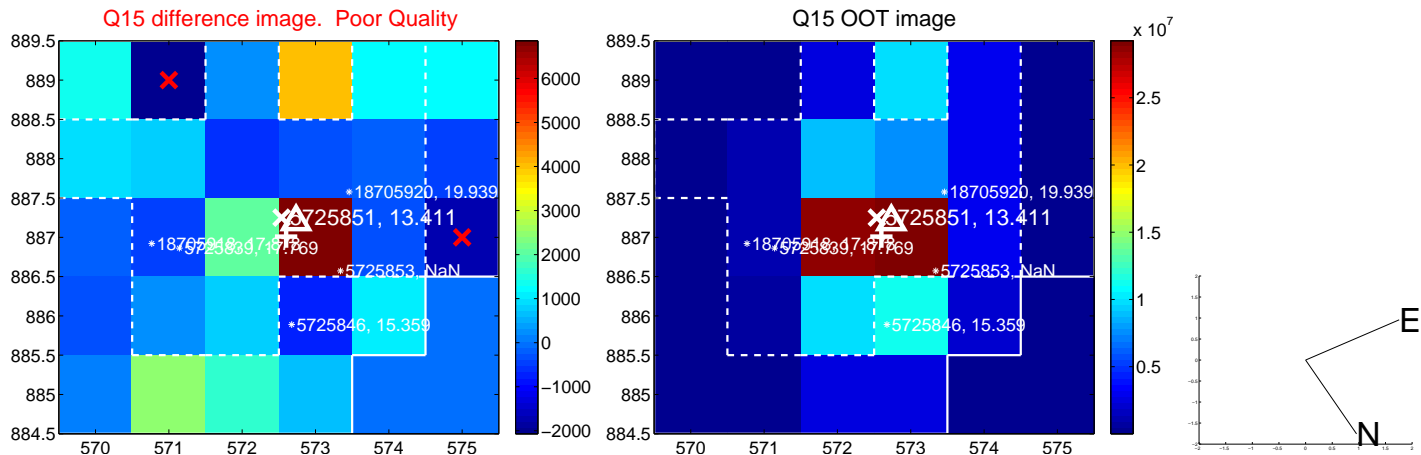
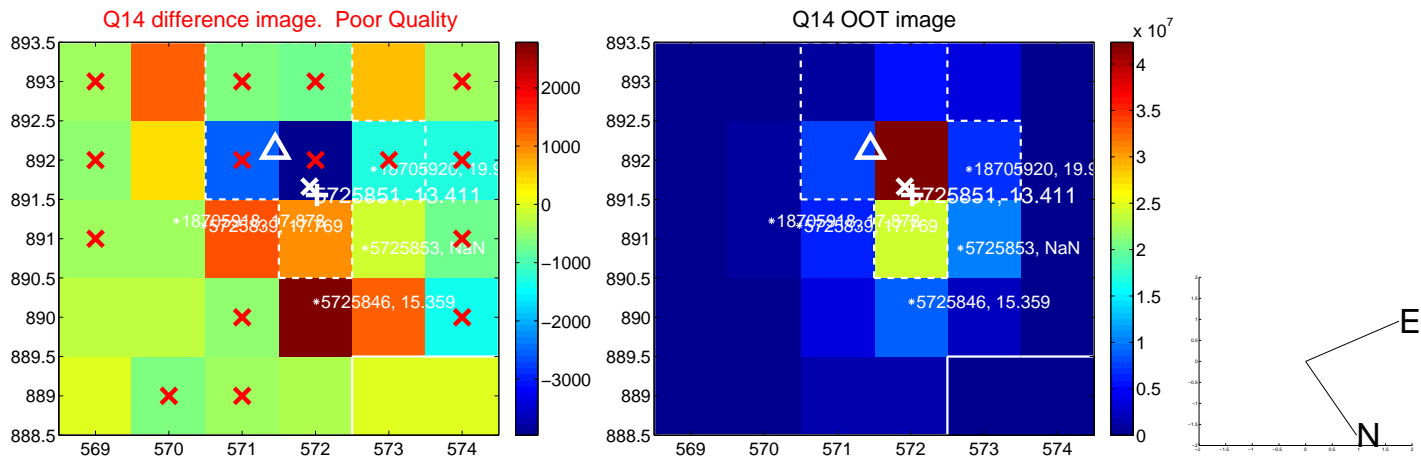
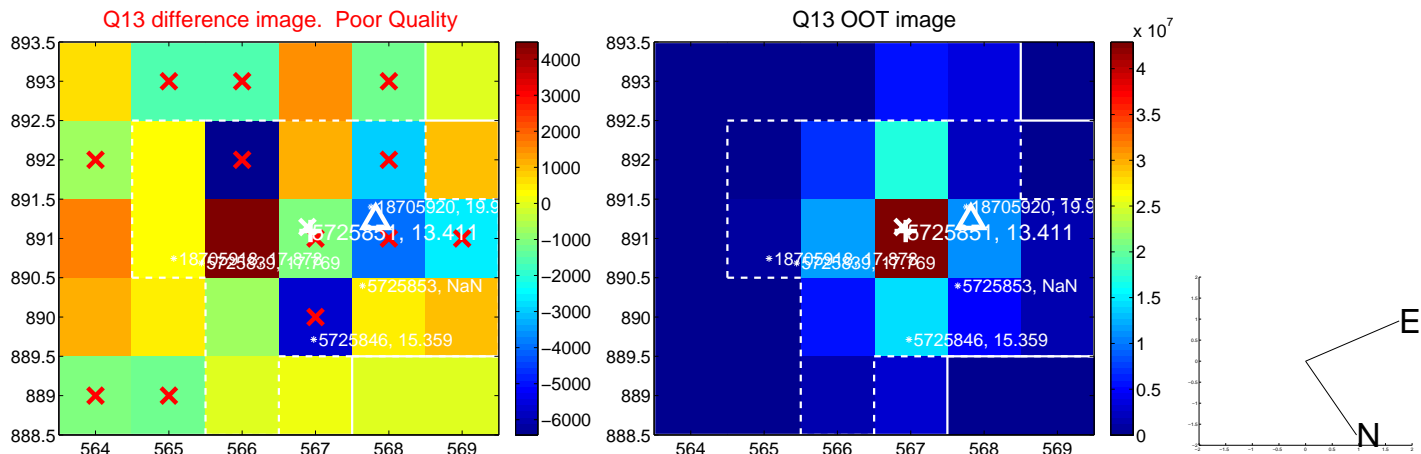
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



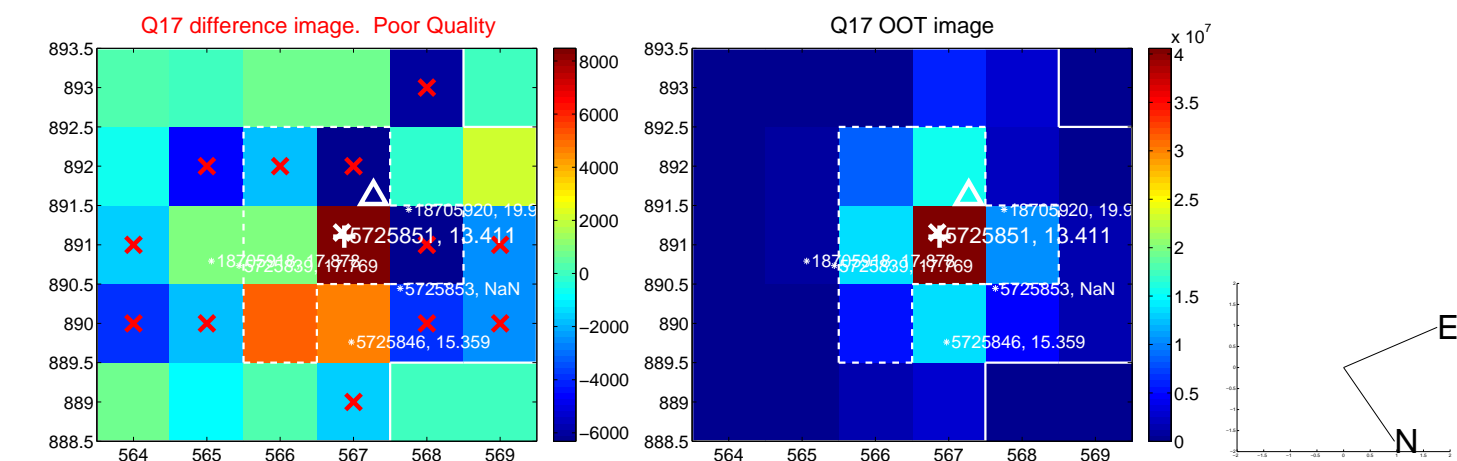
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



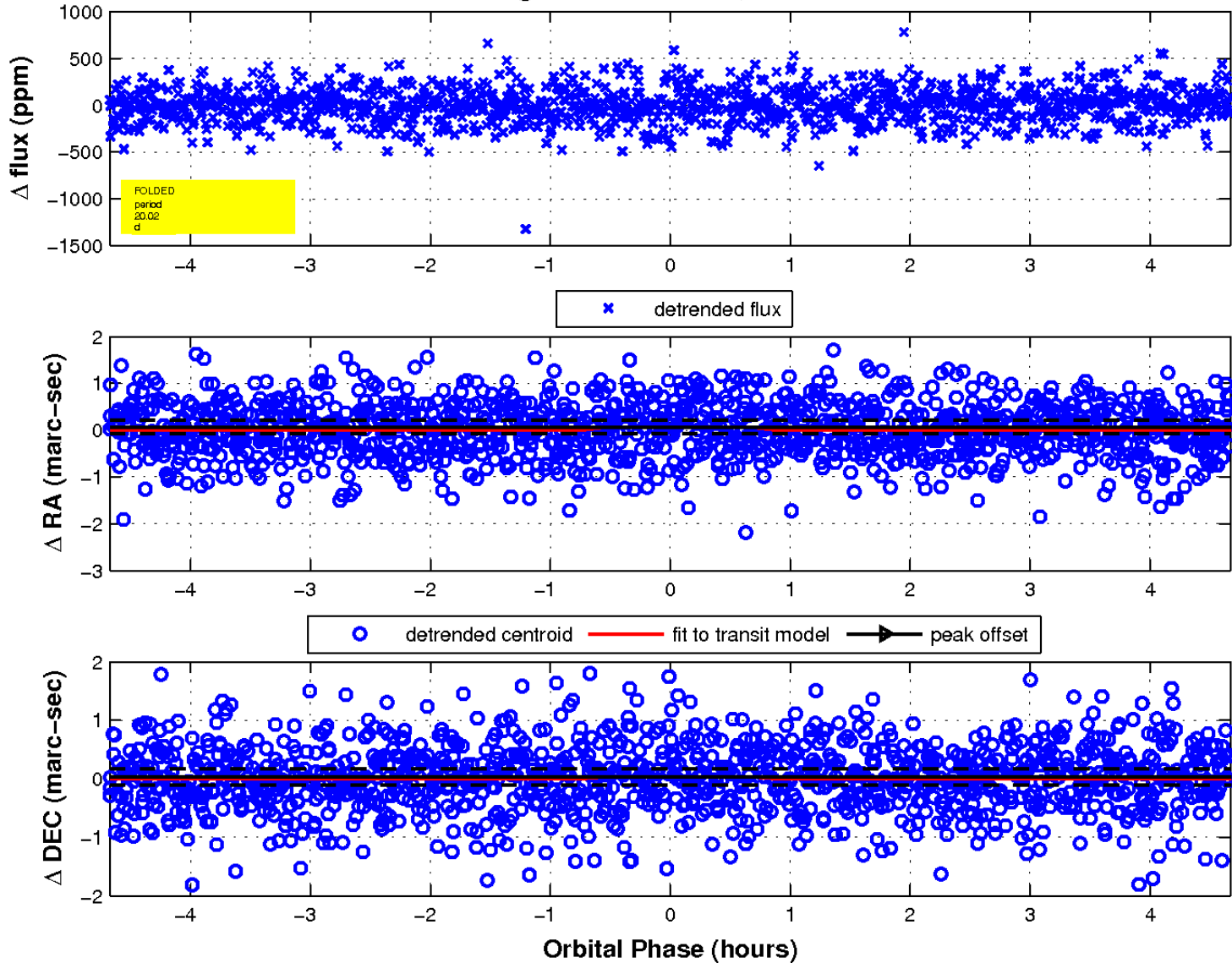
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



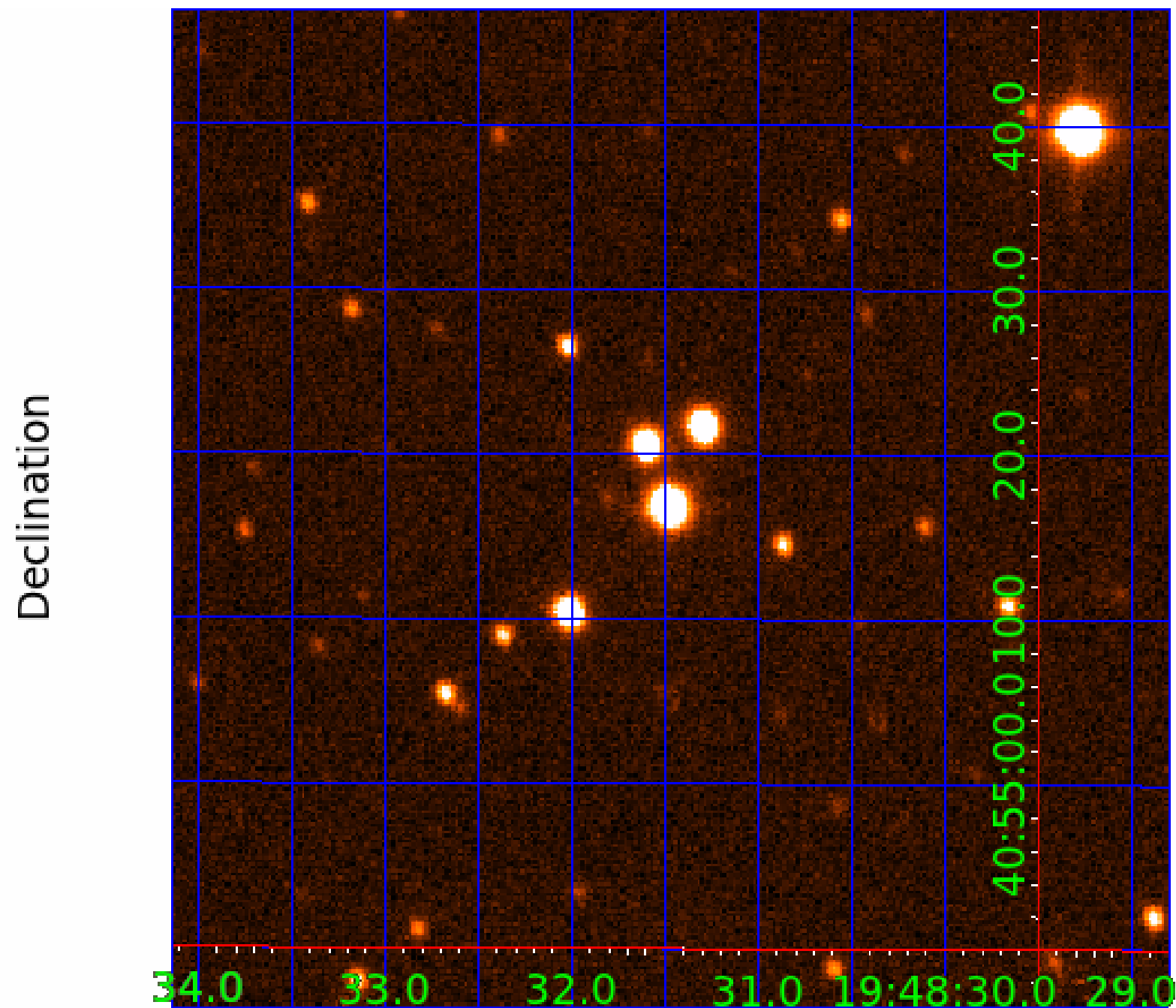
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



fluxWeightedCentroids, Planet 5 of 7



UKIRT Image



KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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

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

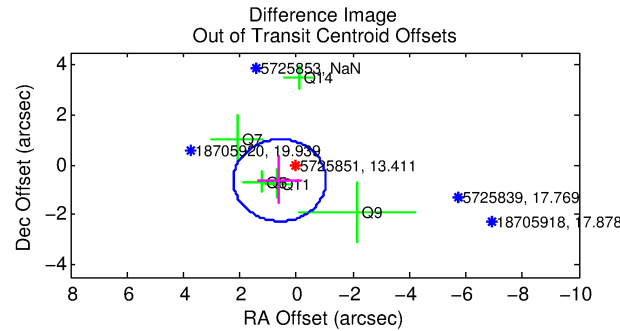
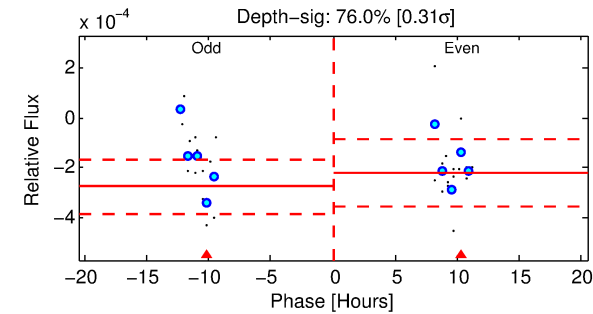
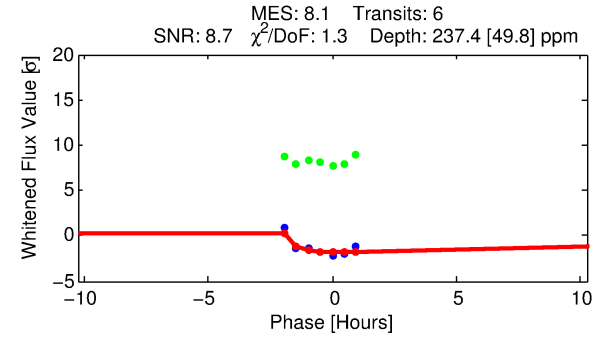
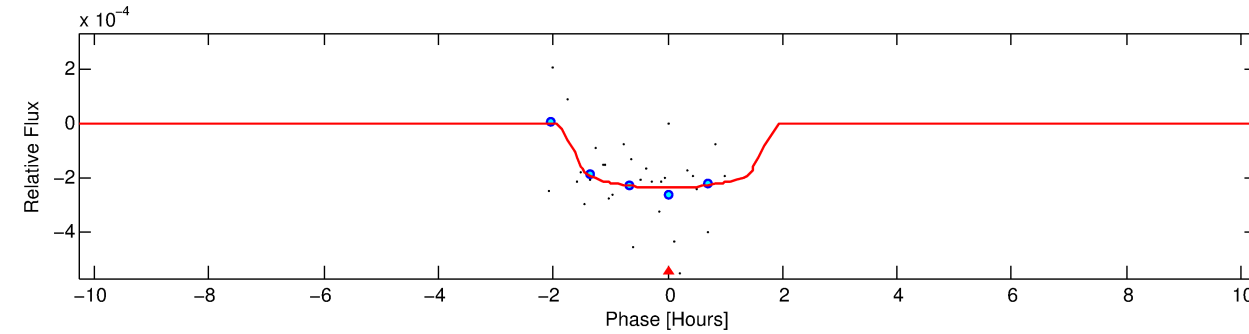
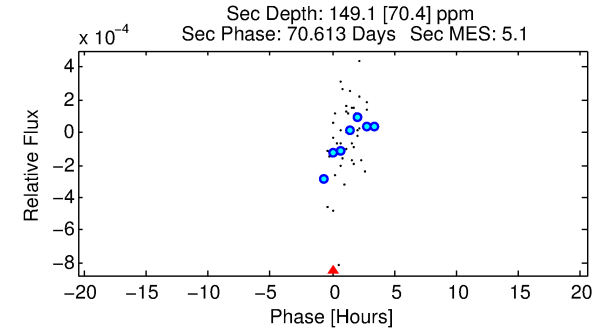
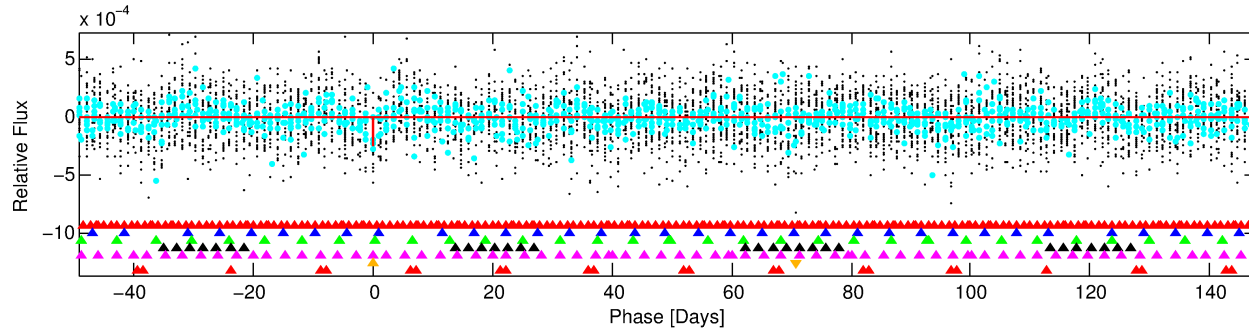
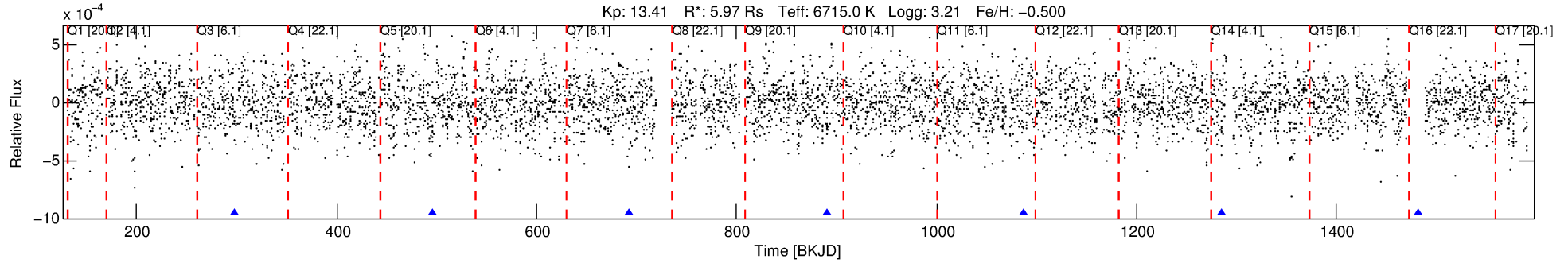
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 005725851-06

No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 6 of 7 Period: 197.258 d
KOI: K06620 Corr: No Ephemeris Match



DV Fit Results:

Period = 197.25756 [0.00506] d
Epoch = 298.2776 [0.0276] BKJD
Rp/R* = 0.0142 [0.0207]
a/R* = 445.58 [3446.21]
b = 0.04 [176.80]
Seff = 89.61 [74.86]
Teq = 785 [164] K
Rp = 9.27 [14.33] Re
a = 0.8512 [0.4320] AU
Ag = 690.99 [2118.40] [0.33σ]
Teffp = 6219 [4596] K [1.18σ]

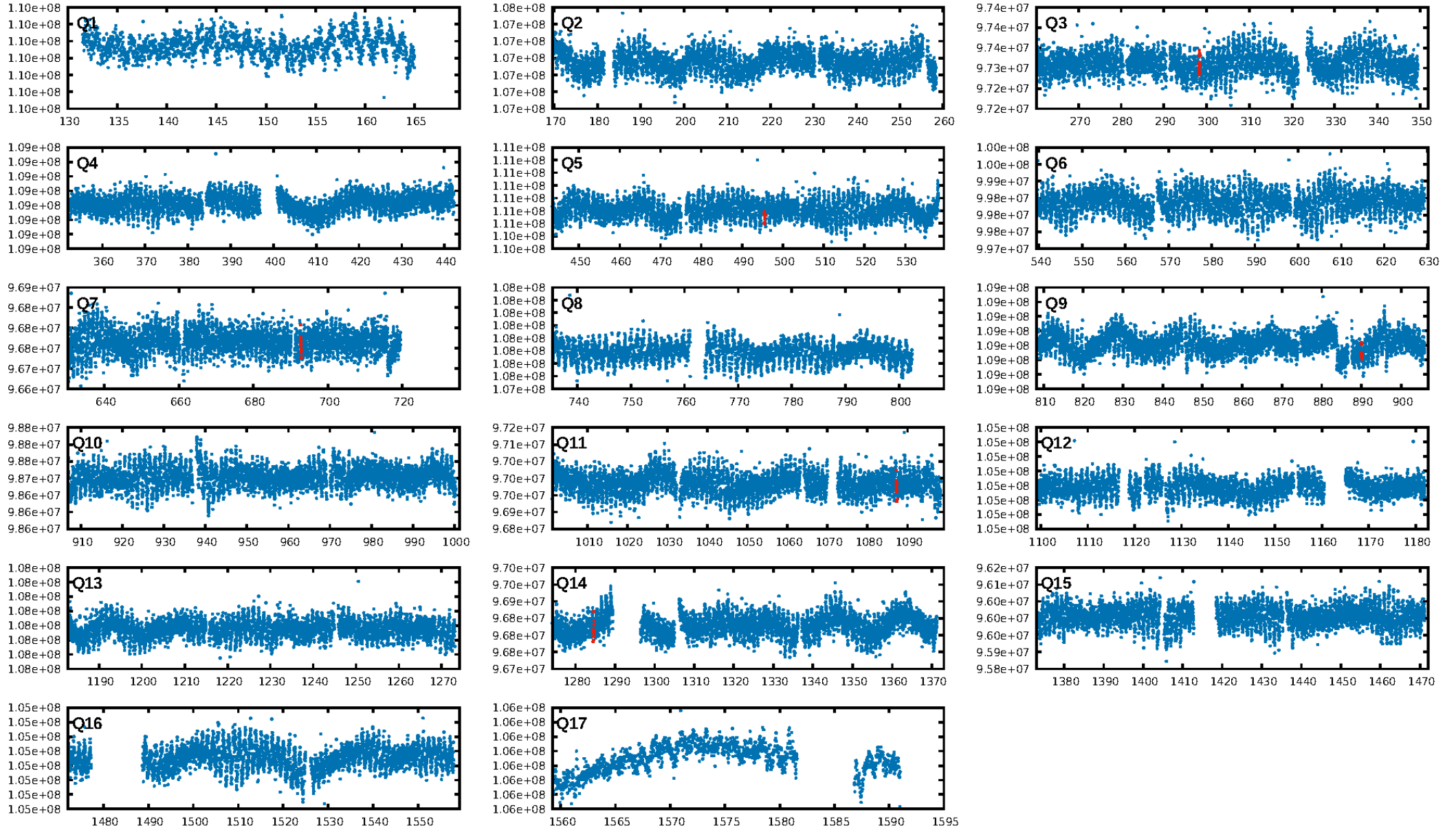
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [706.33σ]
LongPeriod-sig: N/A
ModelChiSquare2-sig: 92.1%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 2.15e-08
RollingBand-fgt: 1.00 [6/6]
GhostDiagnostic-chr: 0.4943
Centroid-sig: 0.7%
Centroid-so: 1.638 arcsec [1.30σ]
OotOffset-rm: 0.864 arcsec [1.58σ]
OotOffset-st: 1/2/0/2 [5]
KicOffset-rm: 0.621 arcsec [0.95σ]
KicOffset-st: 1/2/0/2 [5]
DiffImageQuality-fgm: 0.60 [3/5]
DiffImageOverlap-fno: 0.83 [5/6]

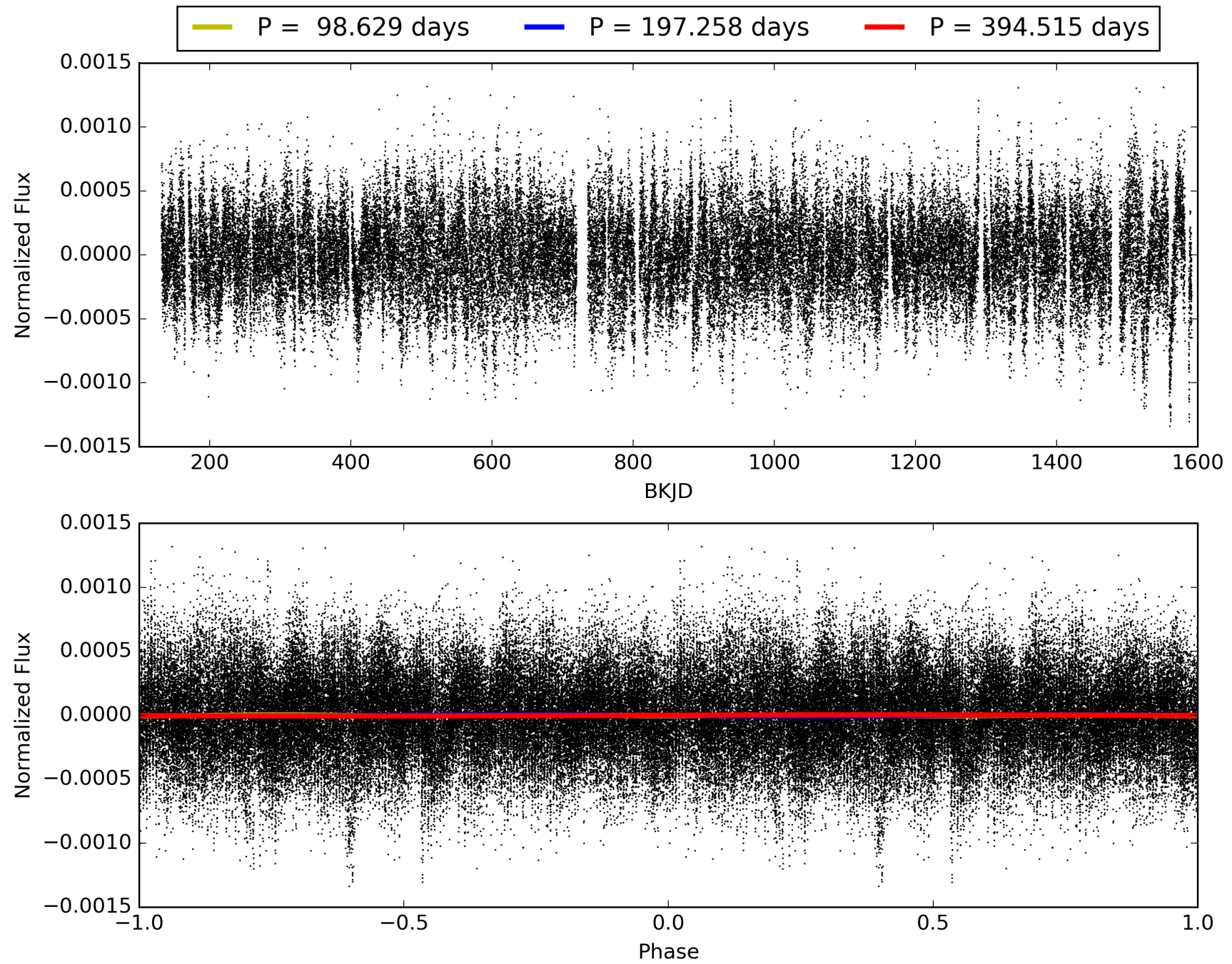
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:41:33 Z

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

TCE 005725851-06, PDC Light Curves

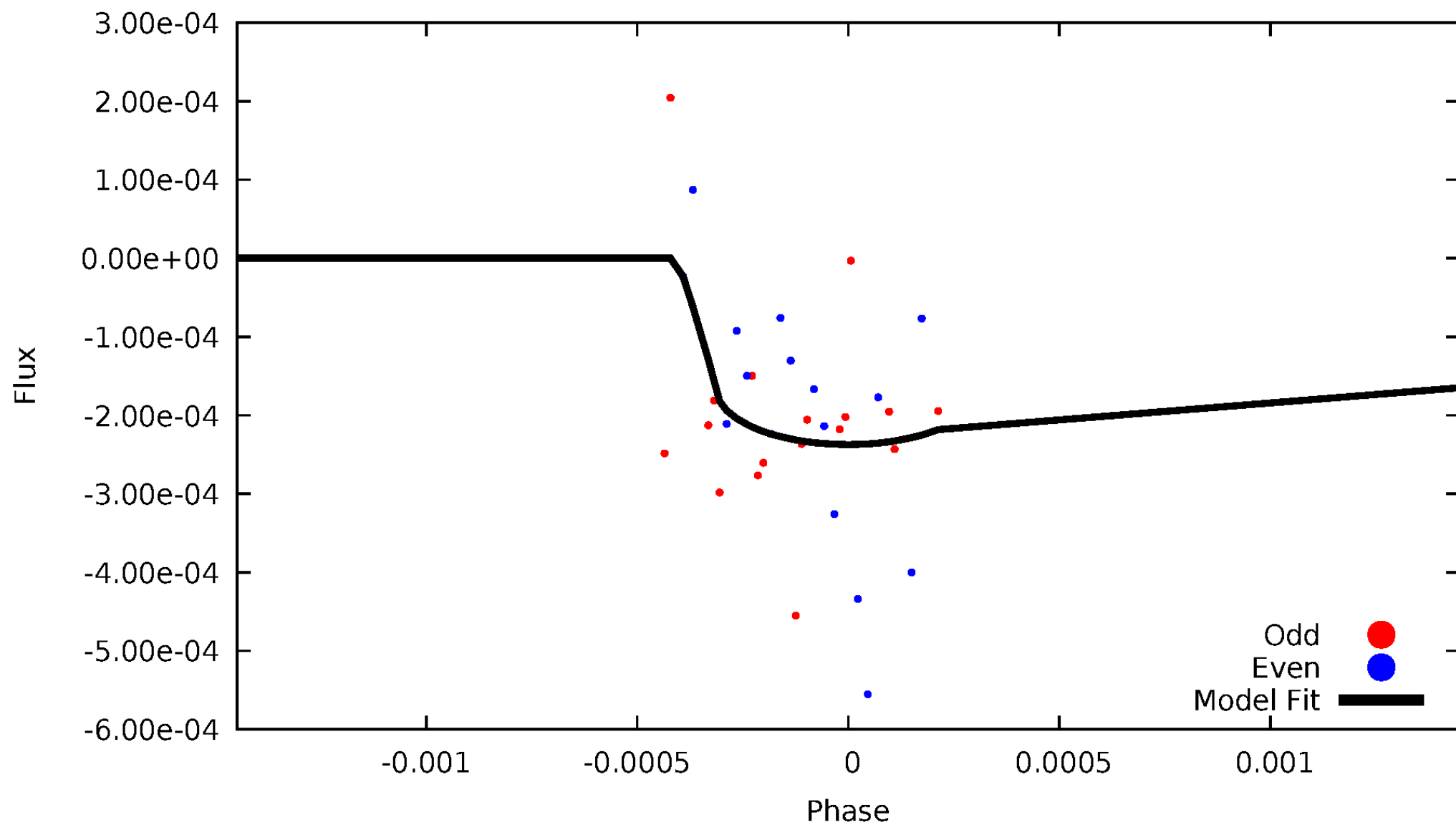


TCE 005725851-06



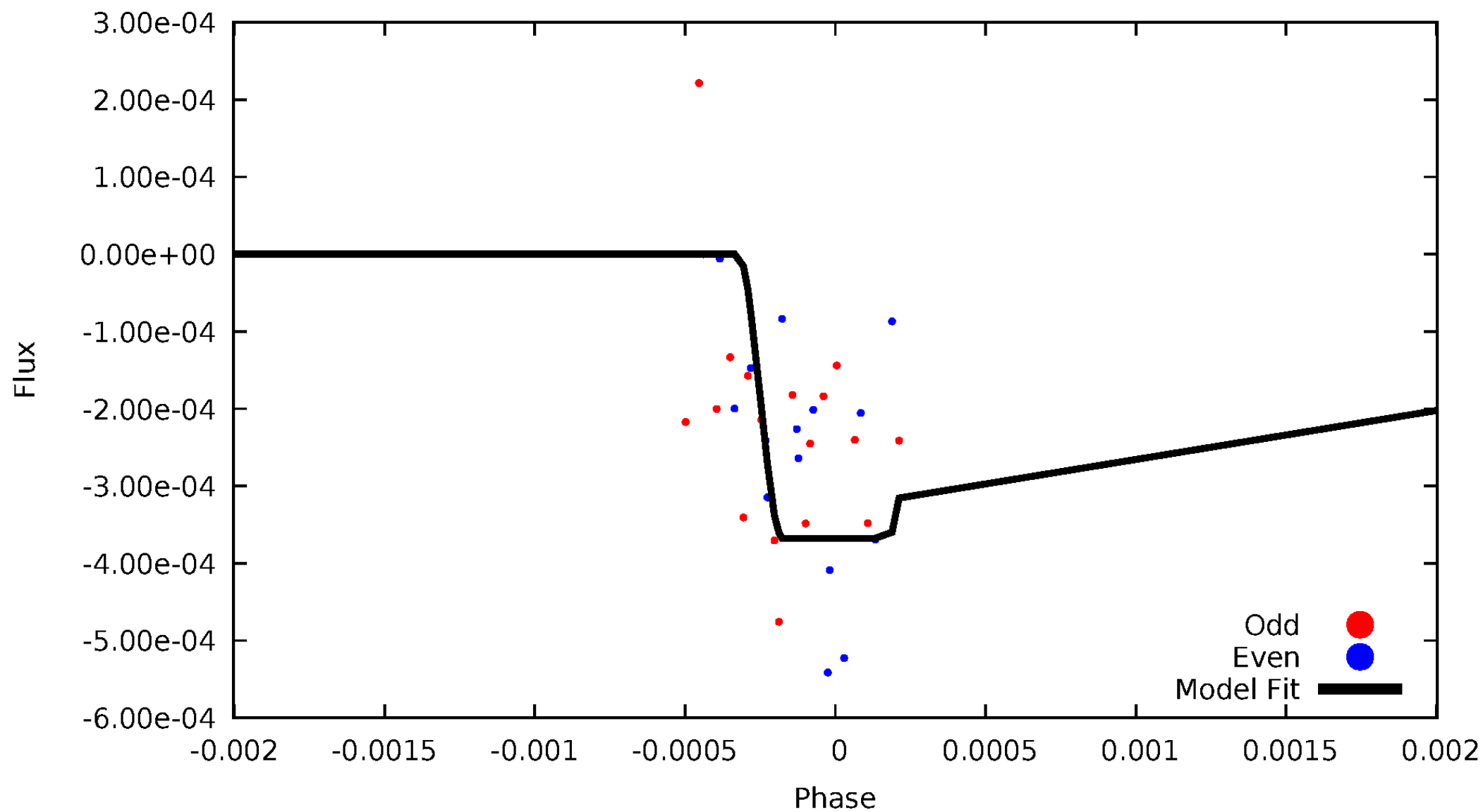
DV Odd/Even

TCE 005725851-06



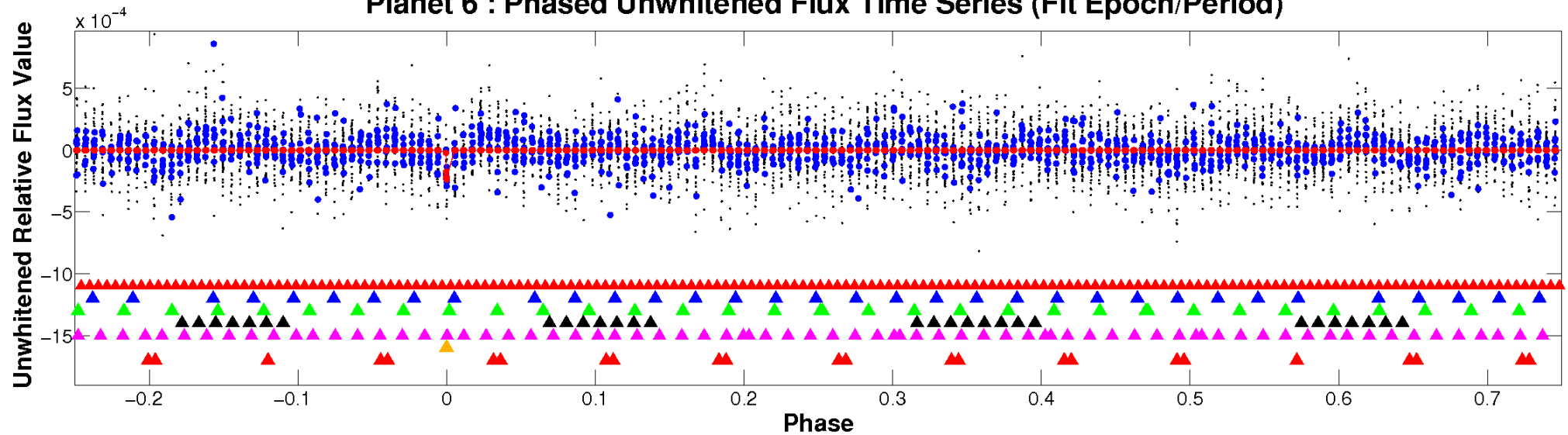
ALT Odd/Even

TCE 005725851-06

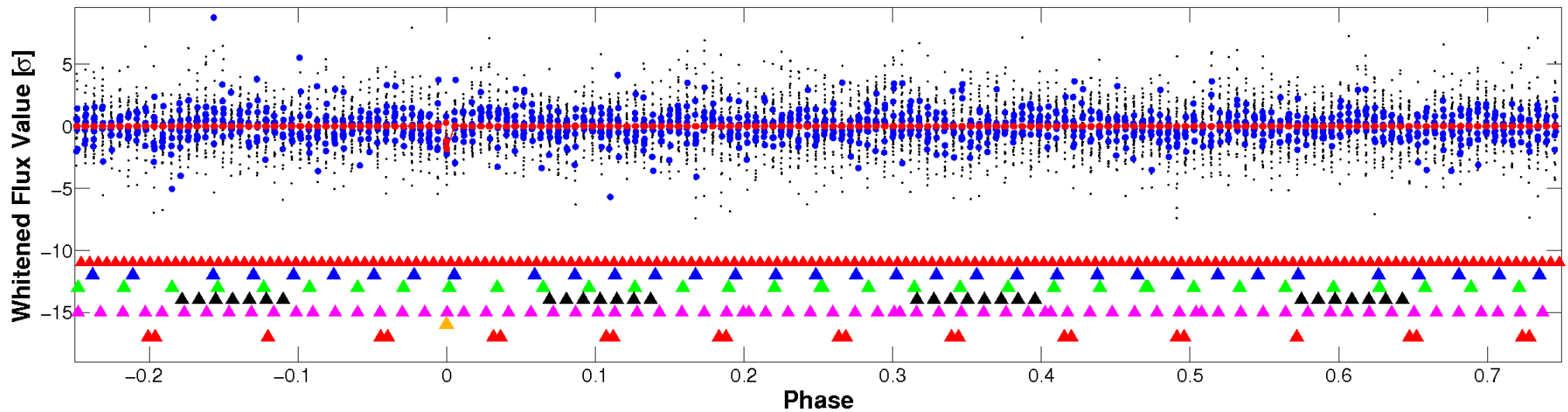


Non-Whitened Vs. Whitened Light Curve

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

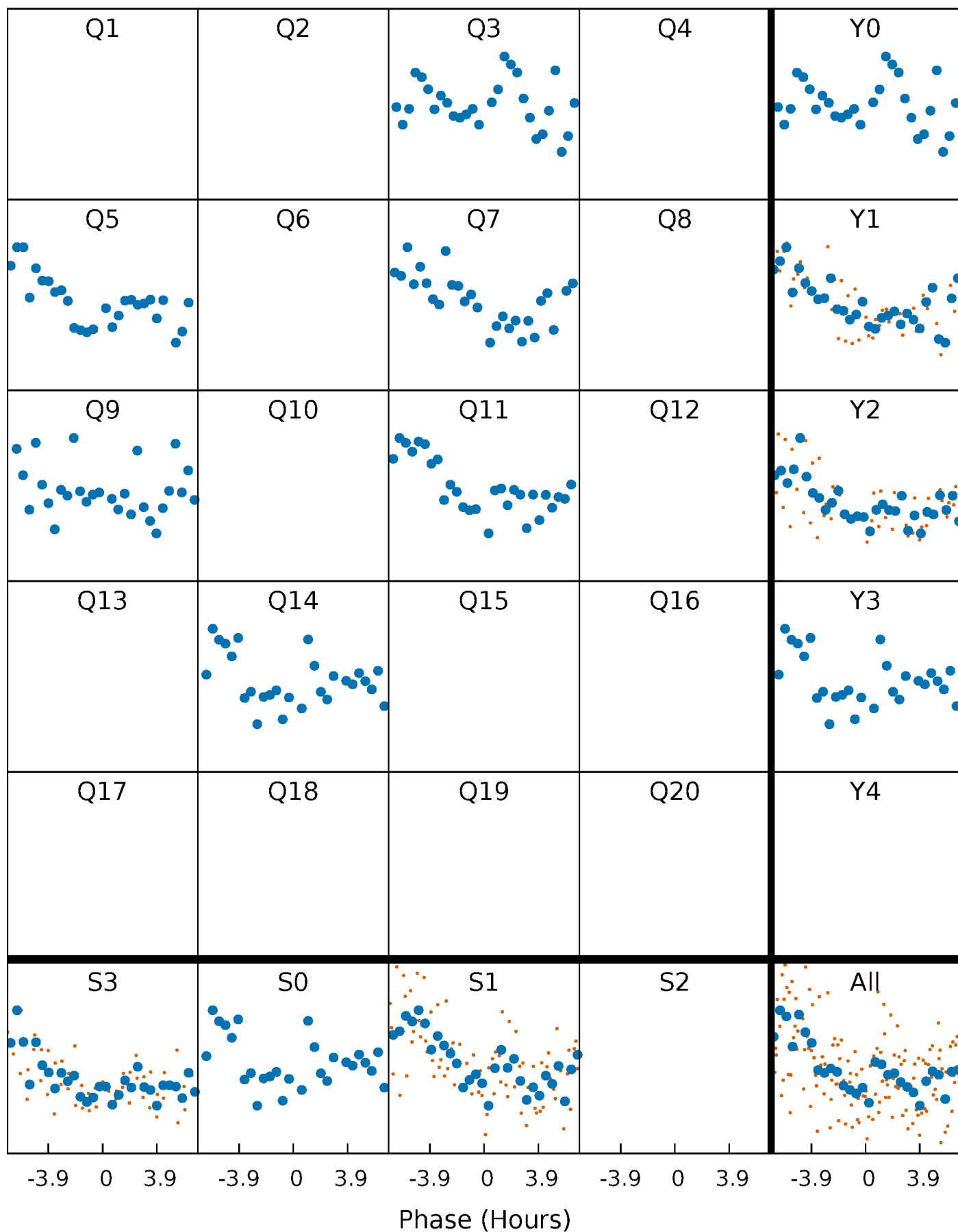


Planet 6 : Phased Whitened Flux Time Series (Fit Epoch/Period)



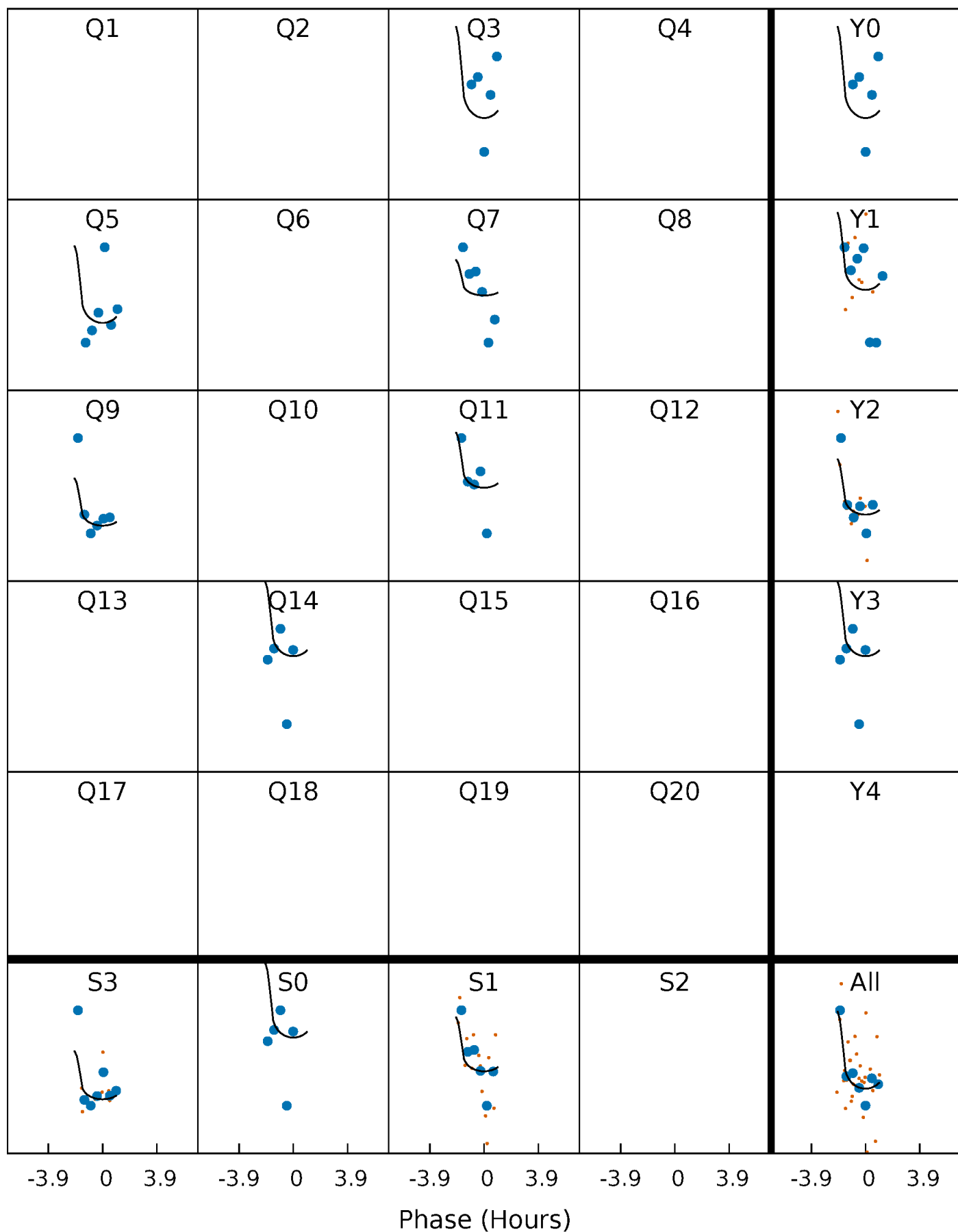
PDC Quarter-Phased Transit Curves

TCE 005725851-06 P=197.257556 Days $T_0=298.277638$ (BKJD)



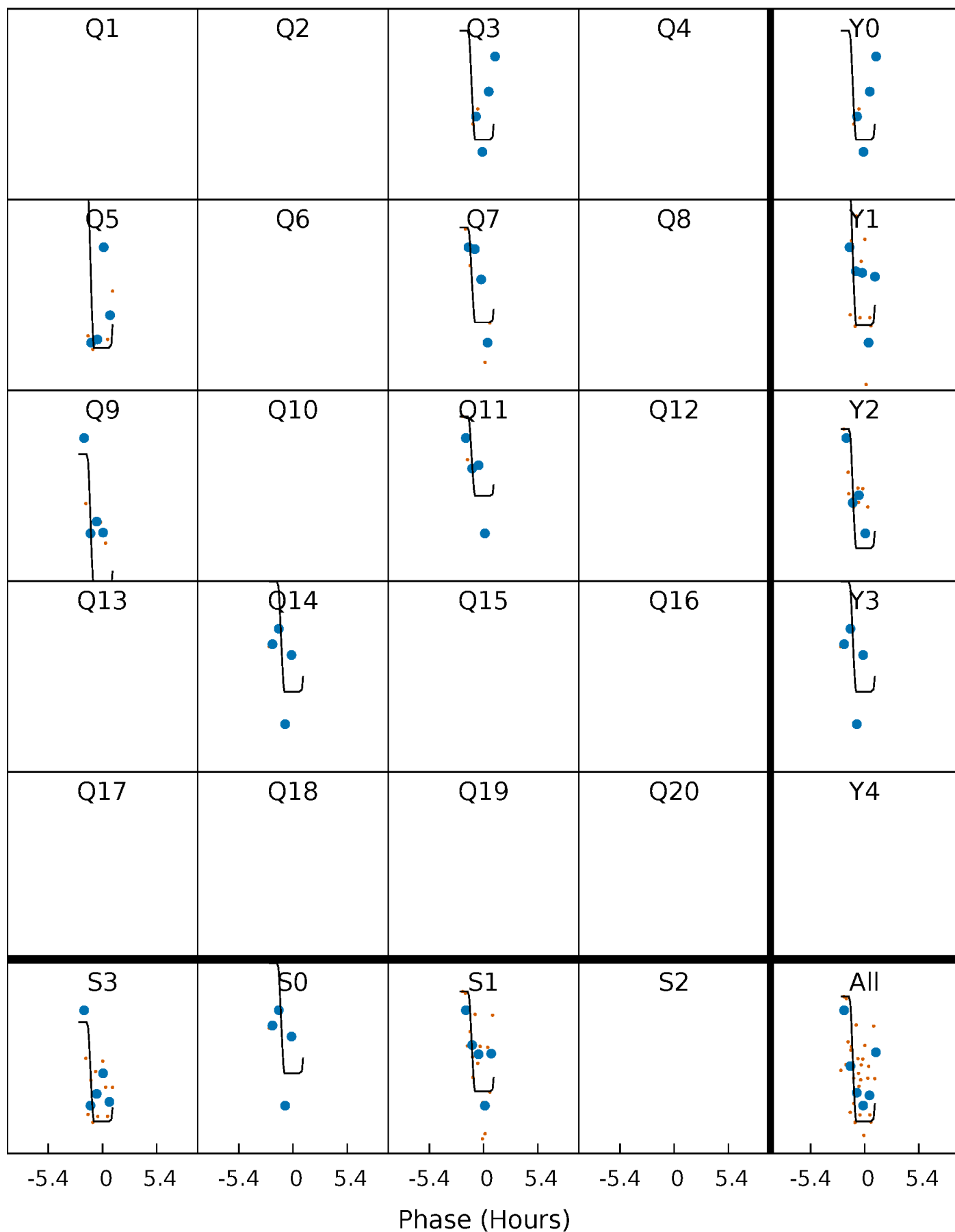
DV Quarter-Phased Transit Curves

TCE 005725851-06 P=197.257556 Days $T_0=298.277638$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

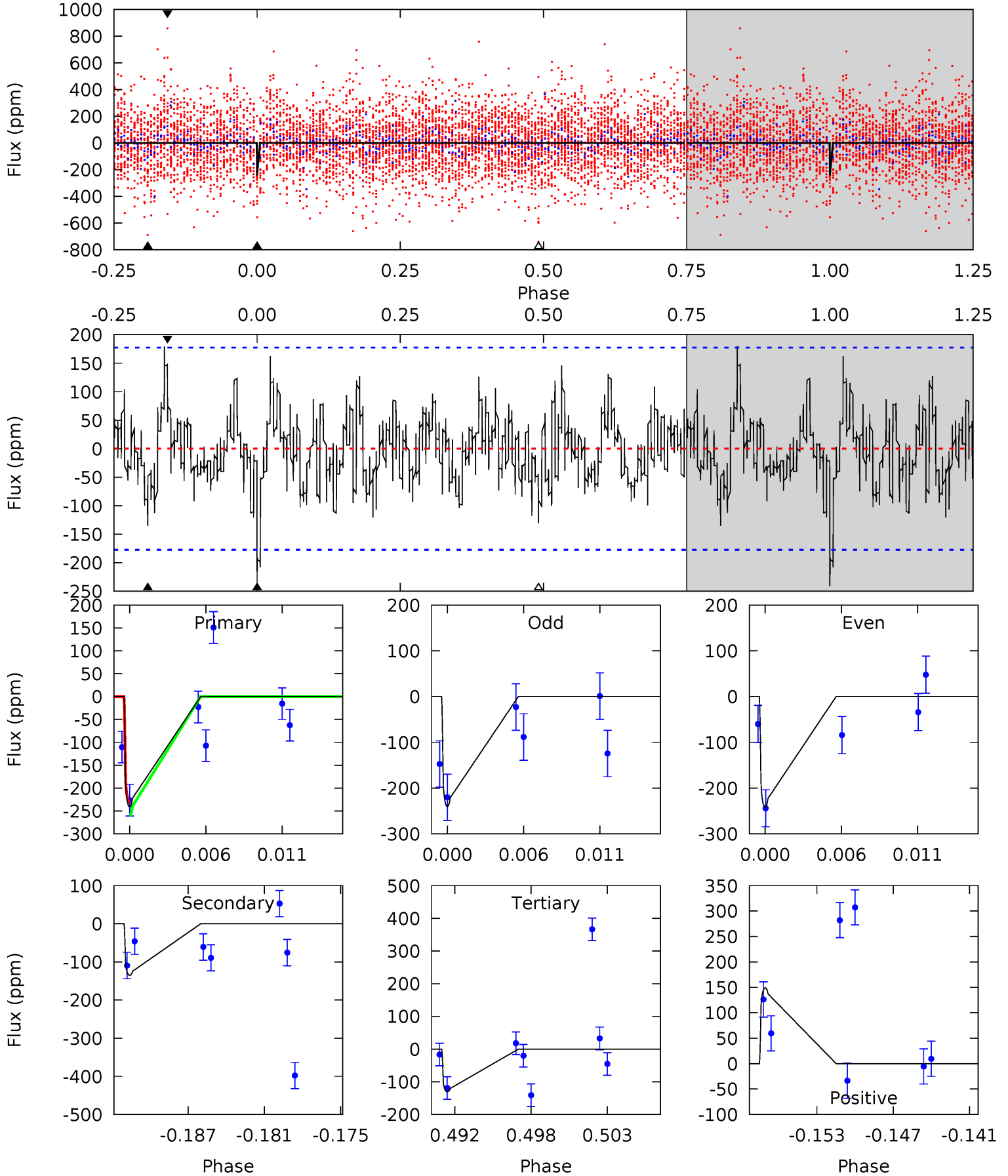
TCE 005725851-06 P=197.260602 Days $T_0=298.274788$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-06, P = 197.257556 Days, E = 101.020082 Days

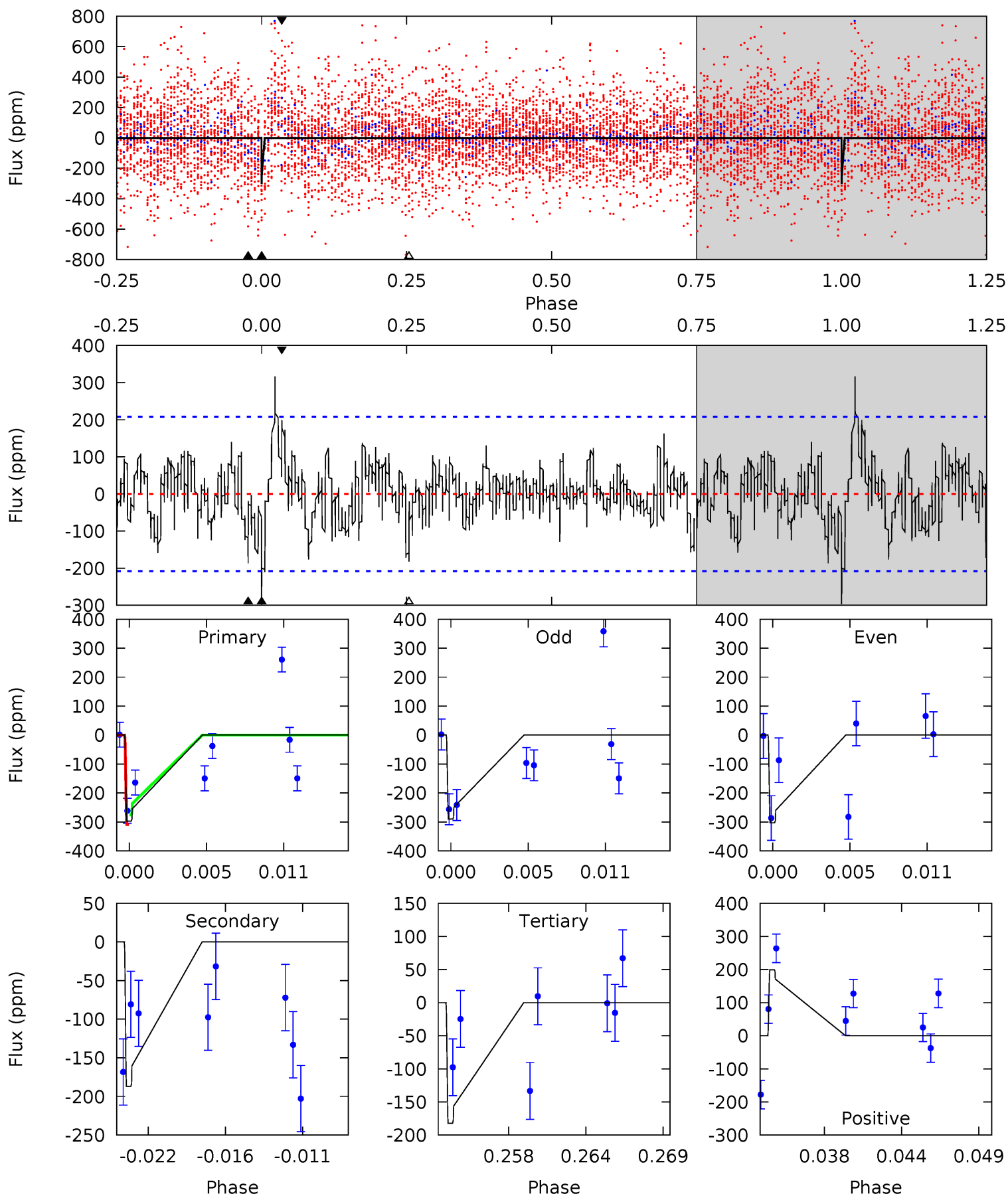
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.99	3.92	3.78	4.32	5.13	2.77	1.42	3.21	2.67	0.14	-0.40	0.02	0.96	0.43	0.38



Alt Model-Shift Uniqueness Test

005725851-06, P = 197.260602 Days, E = 101.014186 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.34	4.62	4.50	4.93	5.14	2.78	1.49	2.83	2.41	0.12	-0.31	0.16	1.01	0.52	0.39



Stellar Parameters For KIC 005725851

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	$M(M_{\odot})$	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-06 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-135 ± 35	$10.86^{+12.51}_{-7.53}$	1056^{+92}_{-135}	5243^{+4576}_{-1314}	442^{+3989}_{-353}
Alt.	-187 ± 40	$13.80^{+11.52}_{-9.20}$	1057^{+88}_{-120}	5079^{+3800}_{-1040}	381^{+2764}_{-275}

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

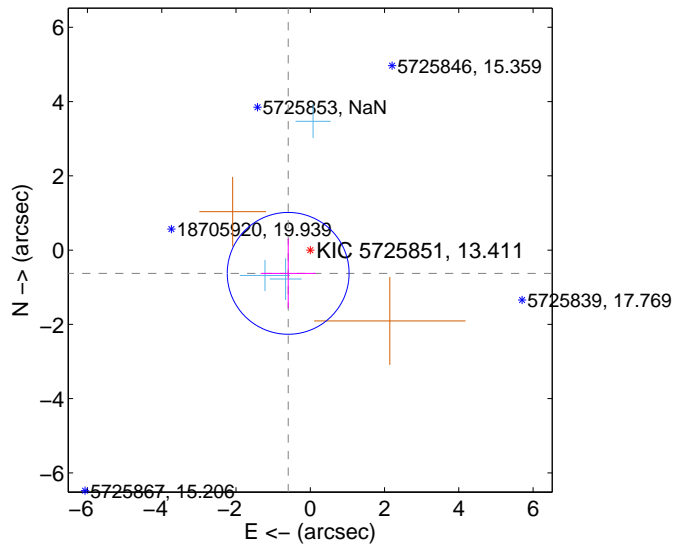
Supplemental centroid analysis for 005725851-06. Kepler magnitude: 13.41. Transit SNR 8.73

There are 3 quarters with good PRF difference image offsets

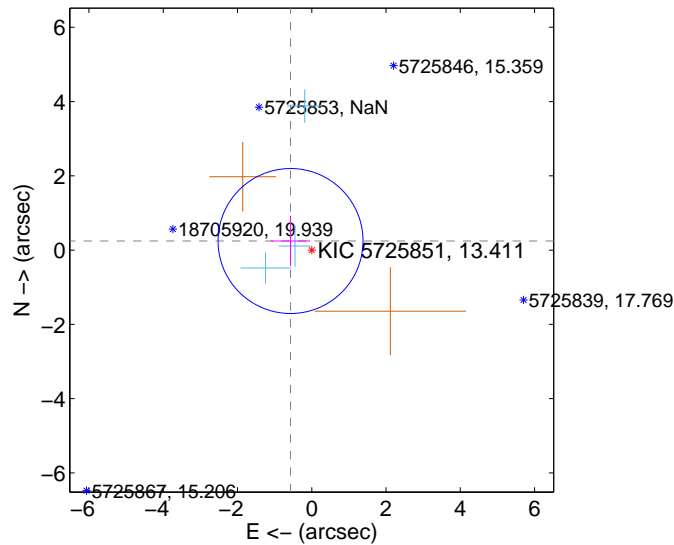
The direct PRF centroid is offset from the target star catalog position by about 0.49 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	0.864 ± 0.547	1.58	0.595 ± 0.739	-0.626 ± 0.938
PRF-fit source offset from KIC position	0.621 ± 0.651	0.95	0.571 ± 0.532	0.244 ± 0.678
photometric centroid source offset	1.64 ± 1.26	1.30	0.76 ± 1.26	-1.45 ± 1.27

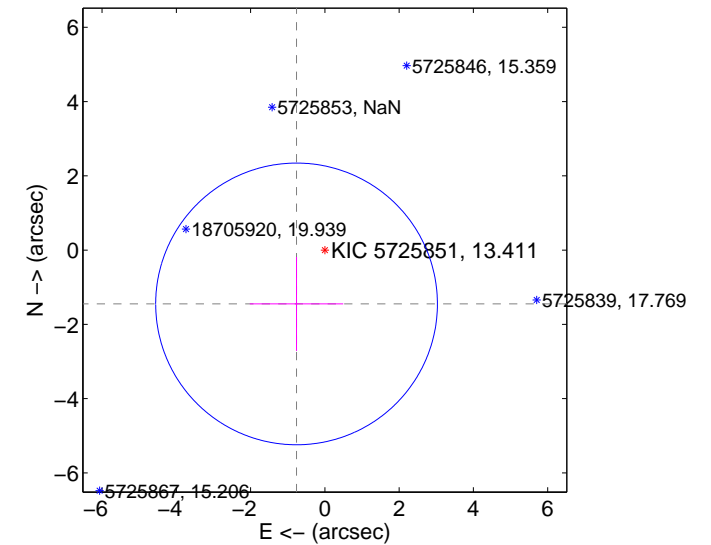
offset from difference PRF-fit to OOT PRF-fit



offset from difference PRF-fit to KIC position

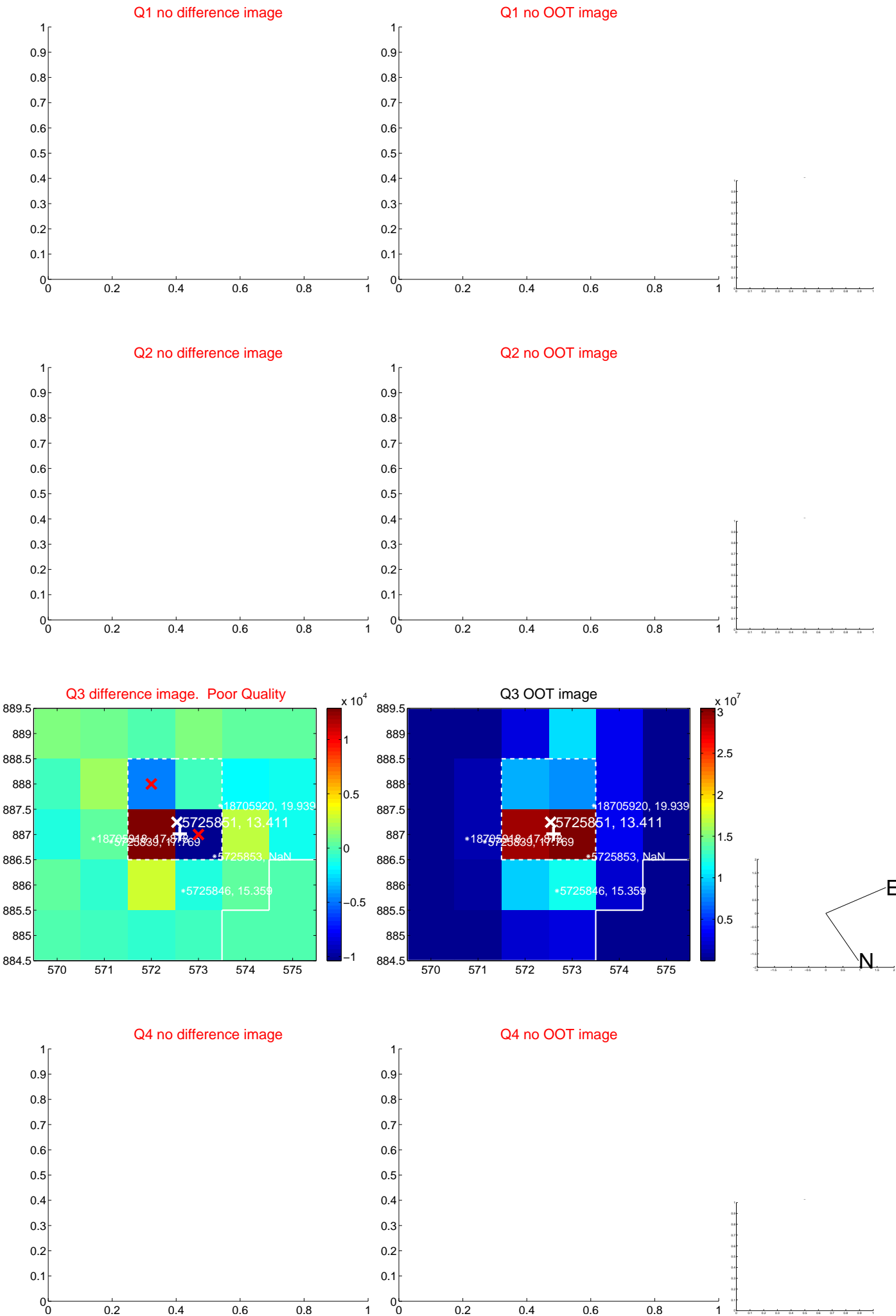


offset from photometric centroids

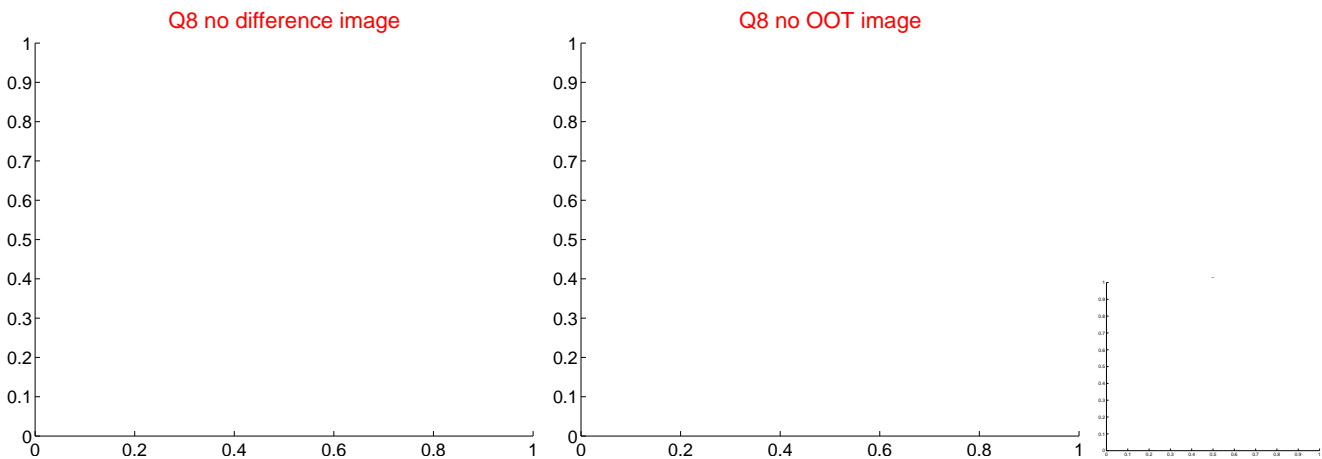
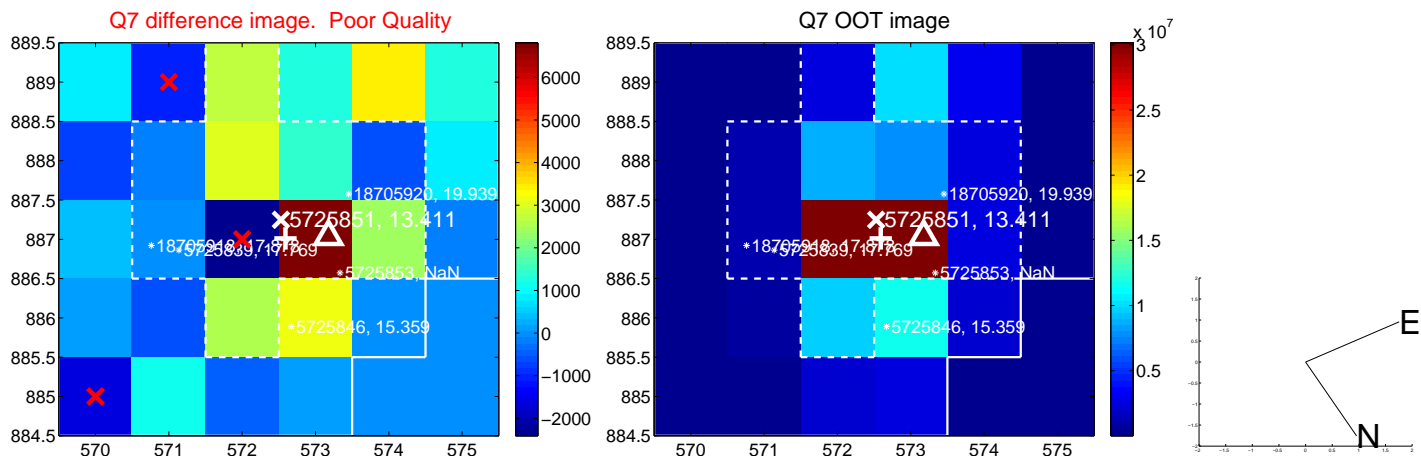
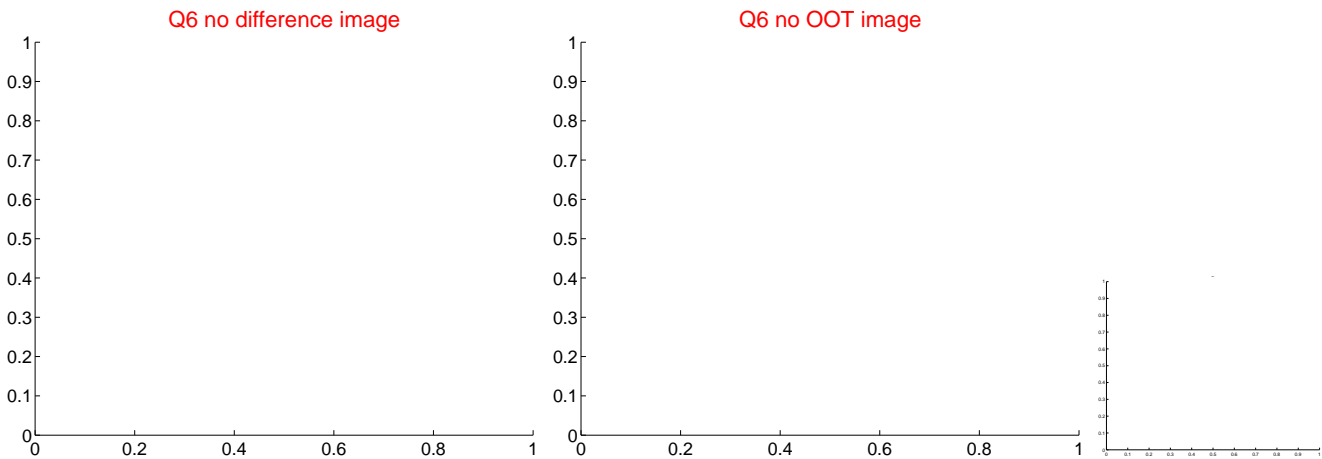
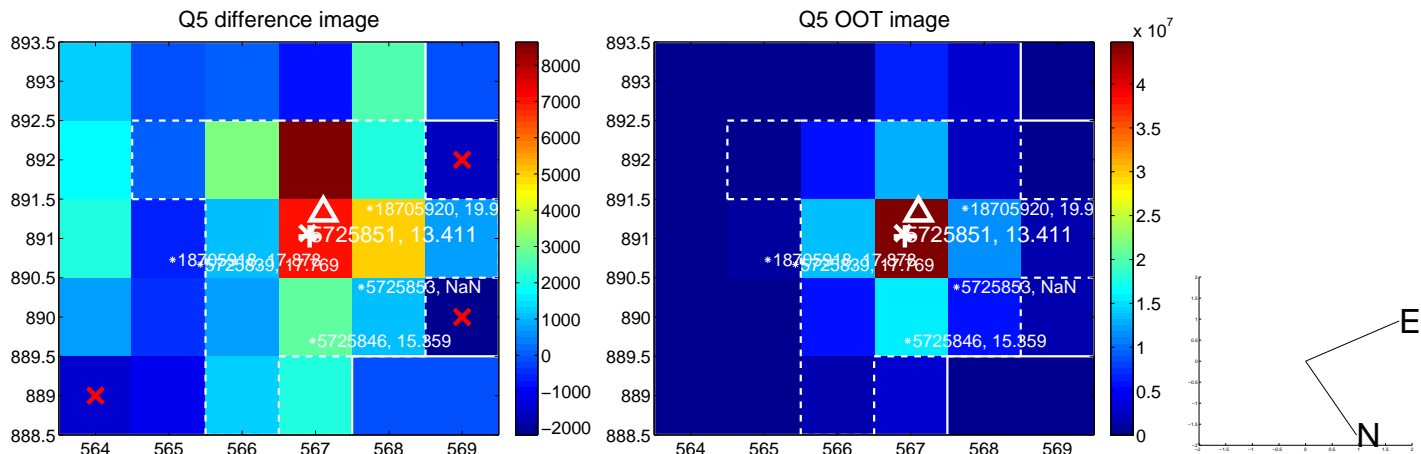


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ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

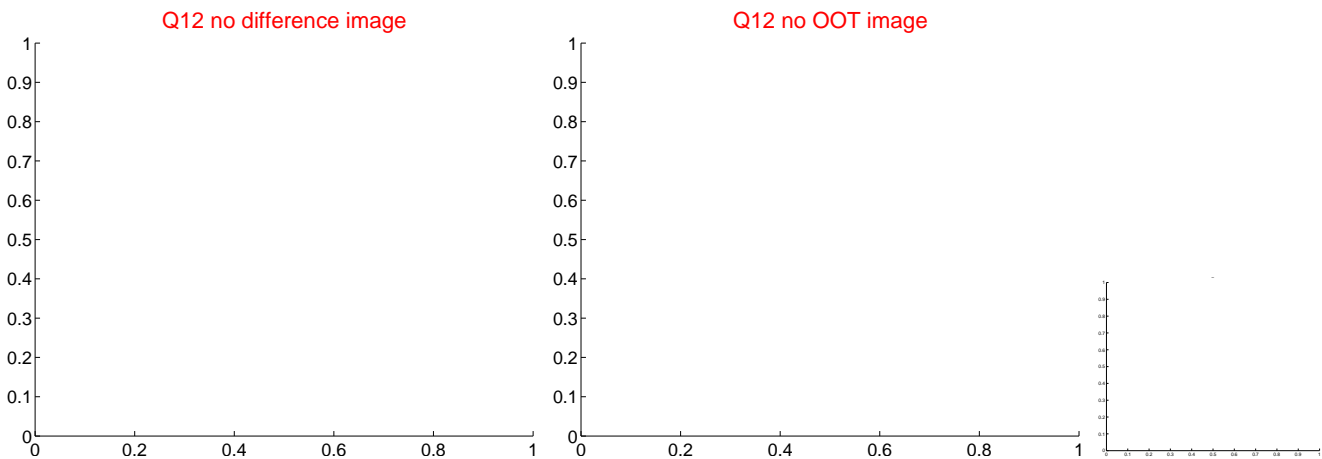
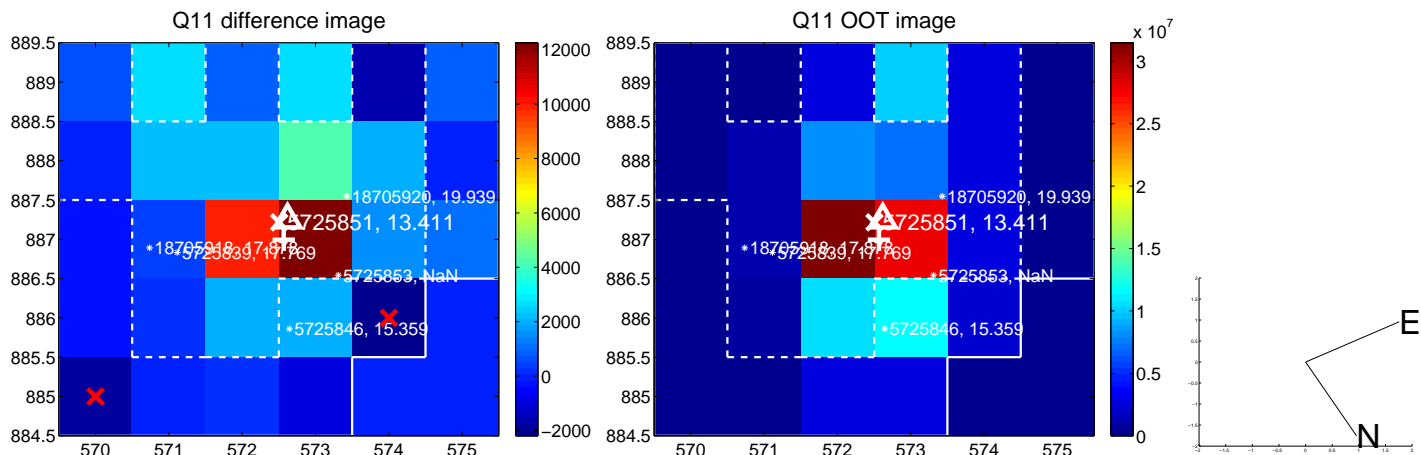
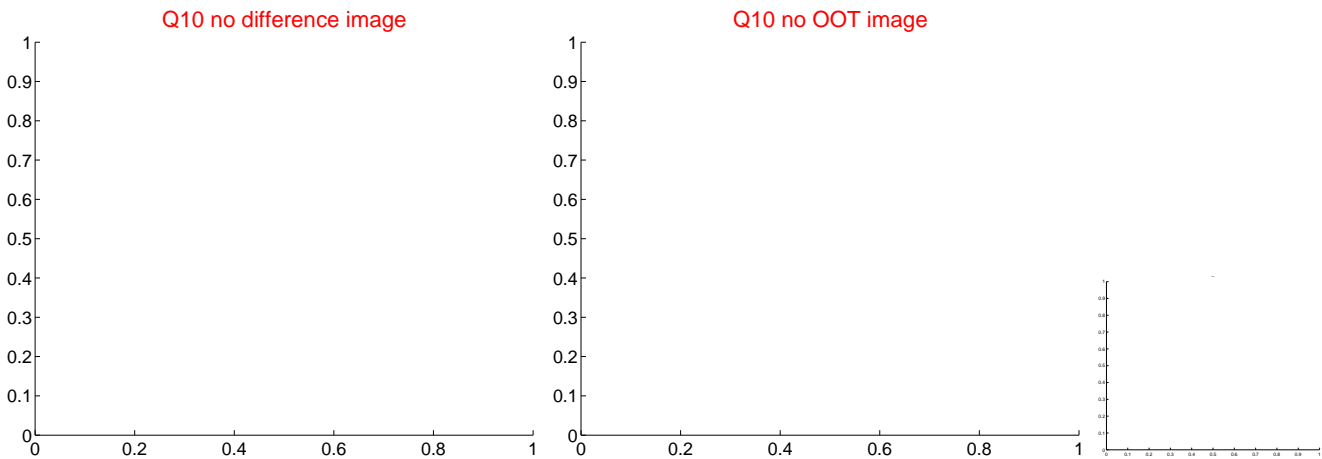
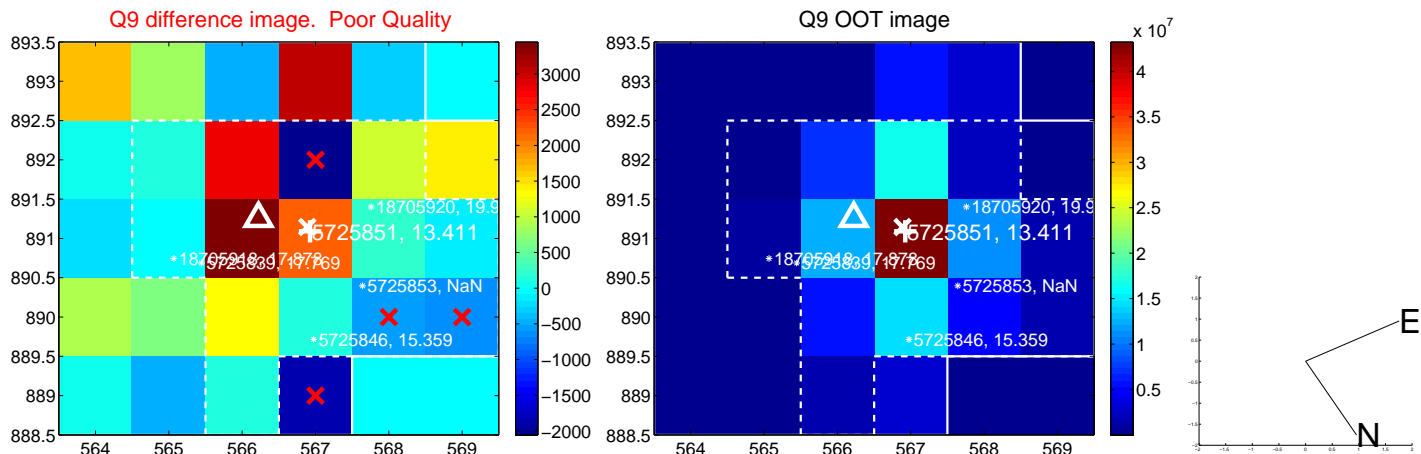
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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



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



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

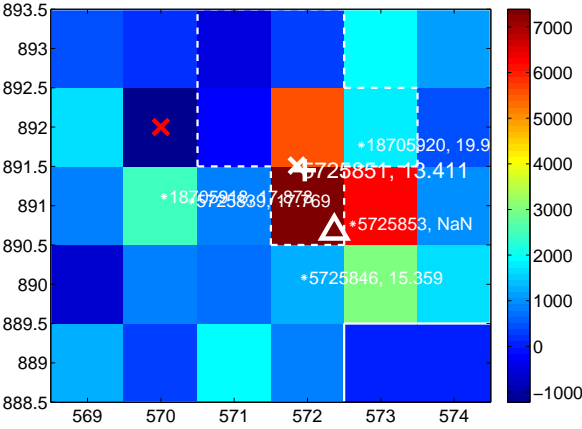
Q13 no difference image



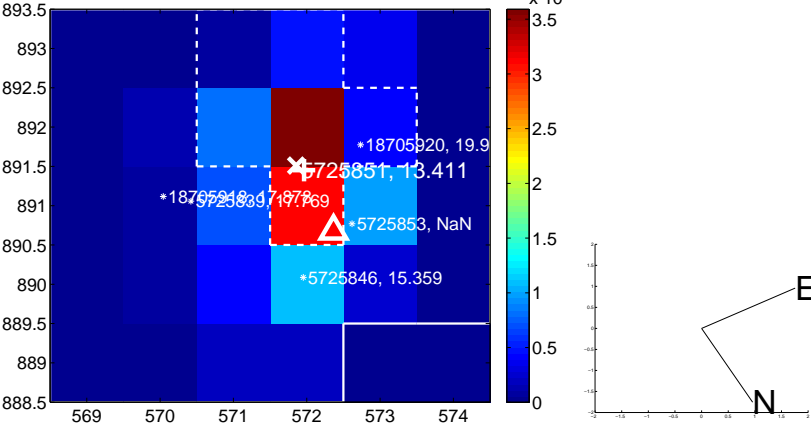
Q13 no OOT image



Q14 difference image



Q14 OOT image



Q15 no difference image



Q15 no OOT image



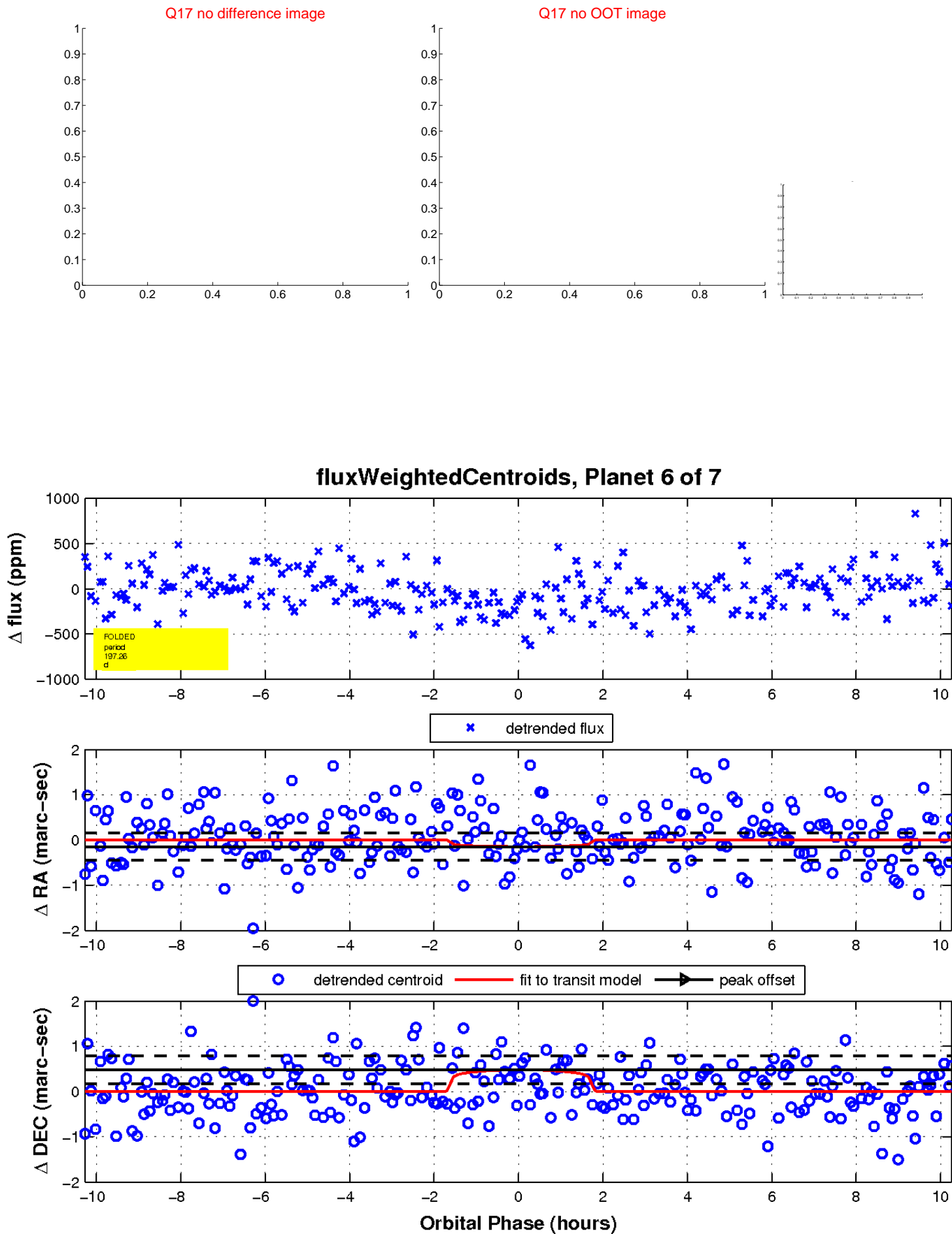
Q16 no difference image



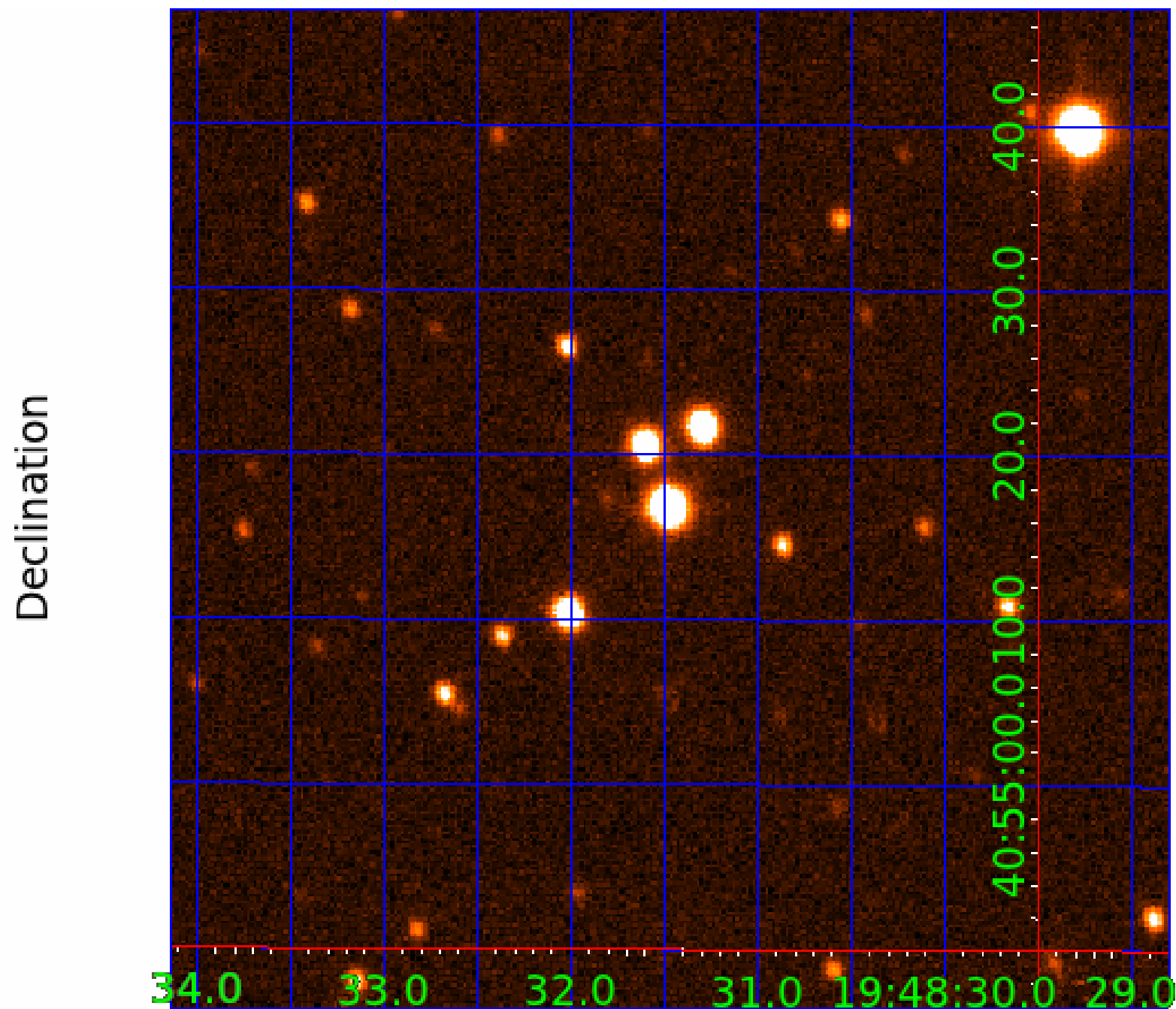
Q16 no OOT image



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



UKIRT Image



KIC 005725851

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})
005725851-01	OBS	6620.01	1.140169	132.377973	24.8	8.048	9.5	9.0	5.97	6715	3.08	0.00
005725851-02	OBS	No	42.650829	150.020389	319.8	1.797	11.2	10.9	5.97	6715	11.96	690.49
005725851-03	OBS	No	43.159041	150.618767	311.5	3.685	10.3	10.0	5.97	6715	11.76	679.67
005725851-04	OBS	No	48.755557	179.081511	551.6	0.776	10.4	11.0	5.97	6715	16.14	577.69
005725851-05	OBS	No	20.022492	140.383164	310.3	1.559	9.9	10.5	5.97	6715	11.69	1892.51
005725851-06	OBS	No	197.257556	298.277638	237.4	3.427	8.1	8.7	5.97	6715	9.27	89.61
005725851-07	OBS	No	60.766185	137.160250	420.2	3.125	10.8	9.4	5.97	6715	13.94	430.70

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
005725851-01	OBS	FP	0.00	1	0	0	1	LPP_DV—EPHEM_MATCH
005725851-02	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT—MOD_POS_ALT
005725851-03	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-04	OBS	FP	0.00	1	0	0	0	TRANS_GAPPED—MOD_NONUNIQ_DV
005725851-05	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_SKYE—TRANS_GAPPED—LPP_DV—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-06	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE_MARSHALL—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT
005725851-07	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_RUBBLE—TRANS_GAPPED—LPP_DV—LPP_ALT—MOD_NONUNIQ_DV—MOD_NONUNIQ_ALT—MOD_TER_ALT

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 005725851-07

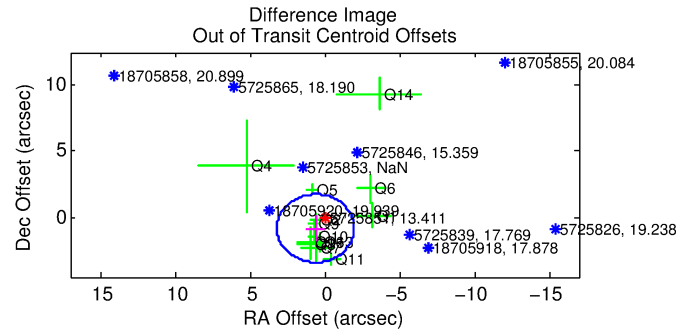
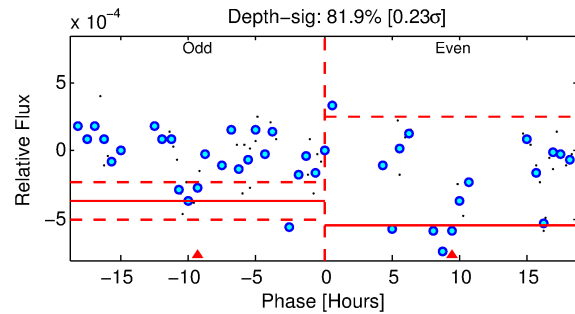
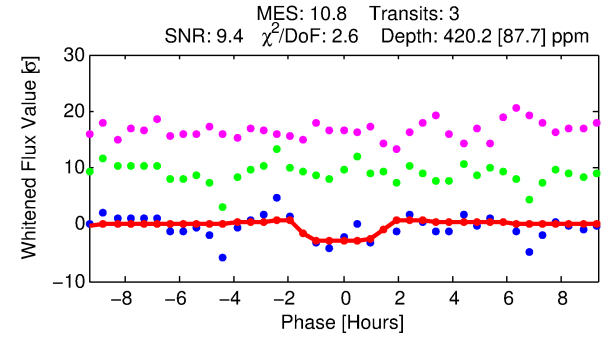
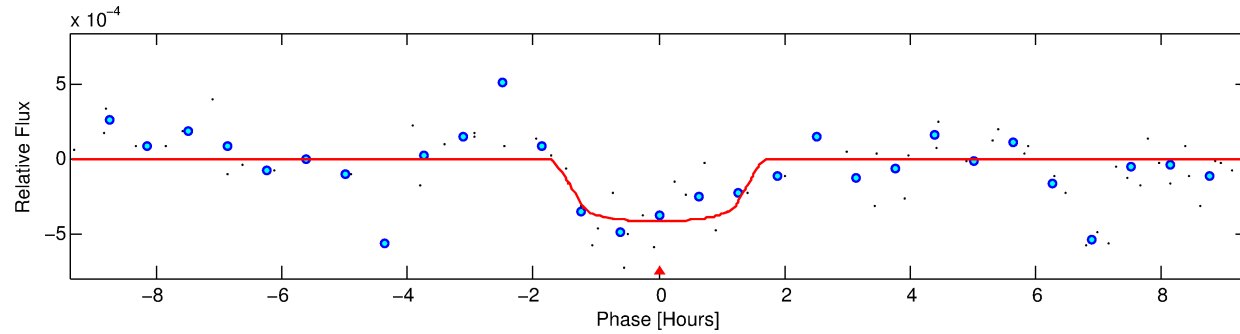
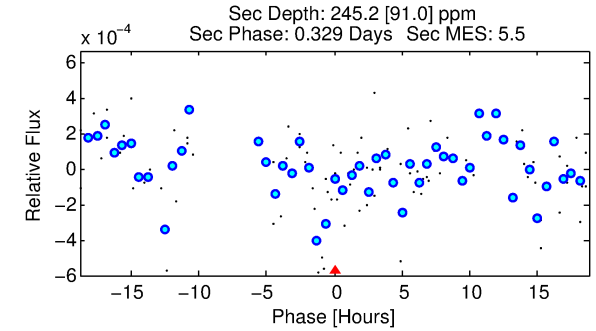
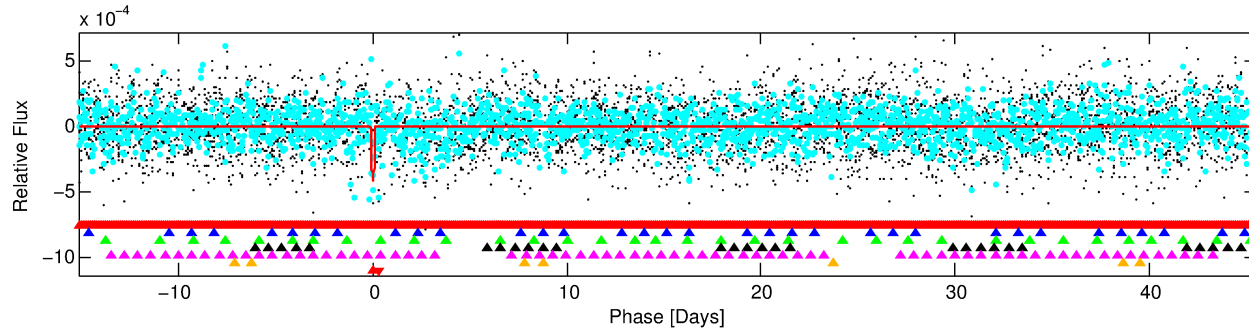
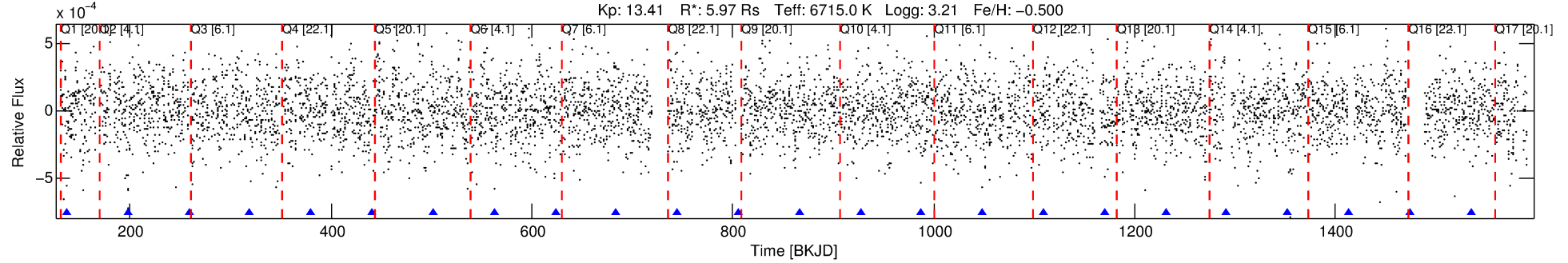
No Significant Match Found

DV One-Page Summary

KIC: 5725851 Candidate: 7 of 7 Period: 60.766 d

KOI: K06620 Corr: No Ephemeris Match

Kp: 13.41 R*: 5.97 Rs Teff: 6715.0 K Logg: 3.21 Fe/H: -0.500



DV Fit Results:

Period = 60.76618 [0.00195] d
Epoch = 137.1602 [0.0151] BKJD
Rp/R* = 0.0214 [0.0160]
a/R* = 80.26 [348.46]
b = 0.87 [1.28]
Seff = 430.70 [359.83]
Teq = 1162 [243] K
Rp = 13.94 [12.65] Re
a = 0.3883 [0.1970] AU
Ag = 104.62 [182.89] [0.57σ]
Teffp = 5744 [2223] K [2.05σ]

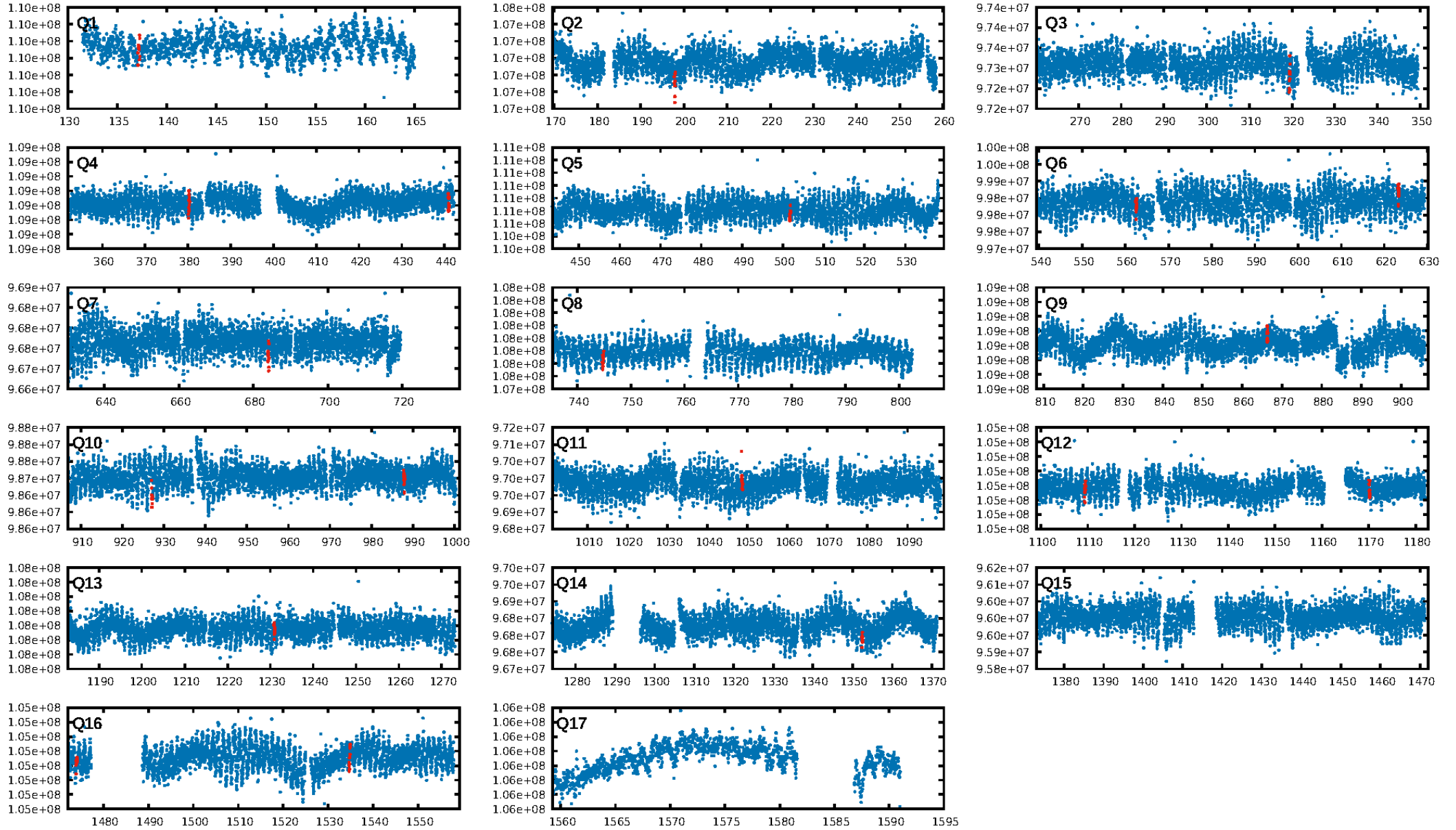
DV Diagnostic Results:

ShortPeriod-sig: 100.0% [89.52σ]
LongPeriod-sig: 100.0% [706.33σ]
ModelChiSquare2-sig: 0.6%
ModelChiSquareGof-sig: 32.2%
Bootstrap-pfa: 8.80e-10
RollingBand-fgt: 1.00 [3/3]
GhostDiagnostic-chr: 0.4227
Centroid-sig: 9.2%
Centroid-so: 1.072 arcsec [2.53σ]
OotOffset-rm: 1.031 arcsec [1.20σ]
OotOffset-st: 4/2/3/4 [13]
KicOffset-rm: 0.836 arcsec [1.15σ]
KicOffset-st: 4/2/3/4 [13]
DiffImageQuality-fgm: 0.54 [7/13]
DiffImageOverlap-fno: 0.13 [2/15]

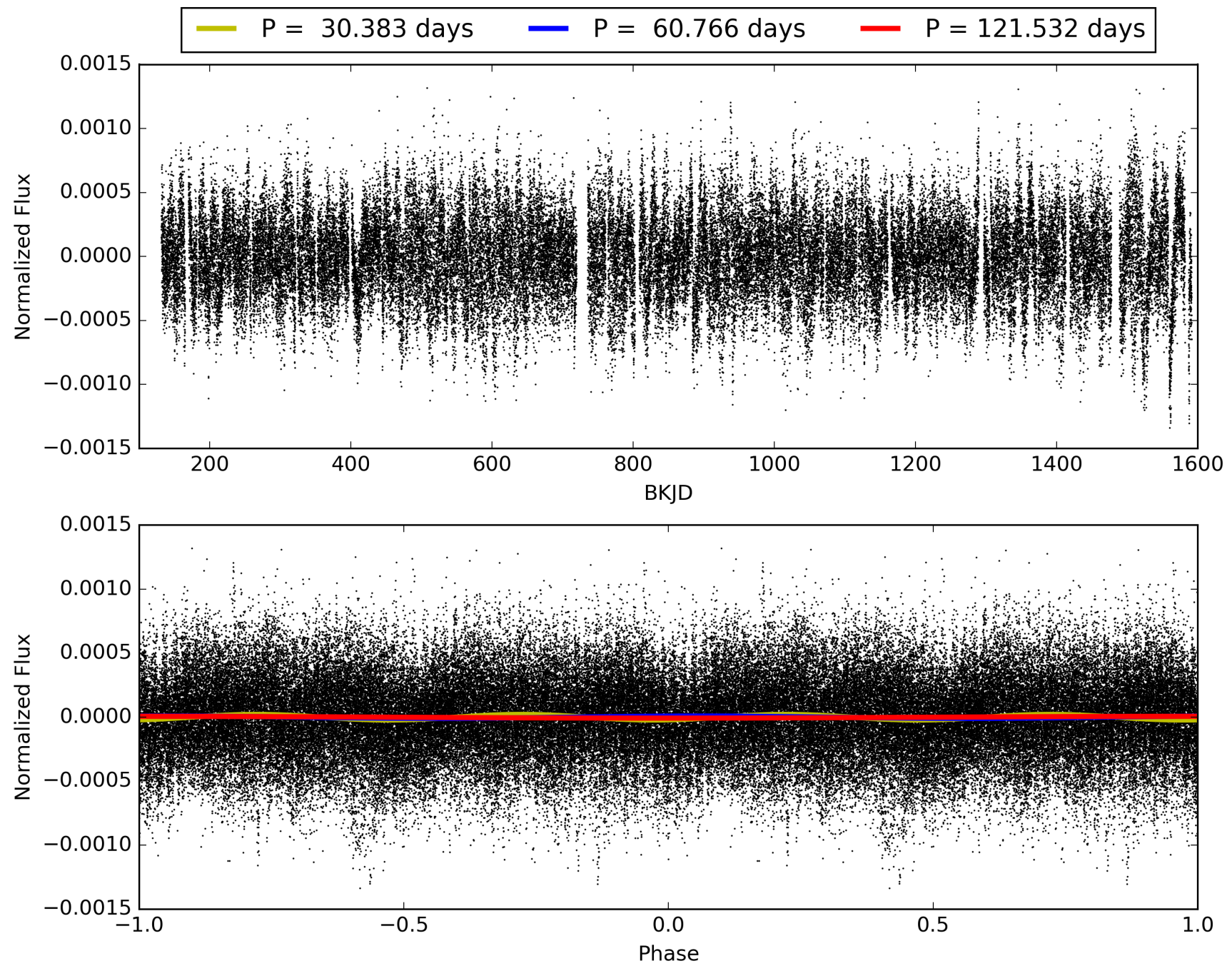
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 31-Jan-2016 17:41:37 Z

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

TCE 005725851-07, PDC Light Curves

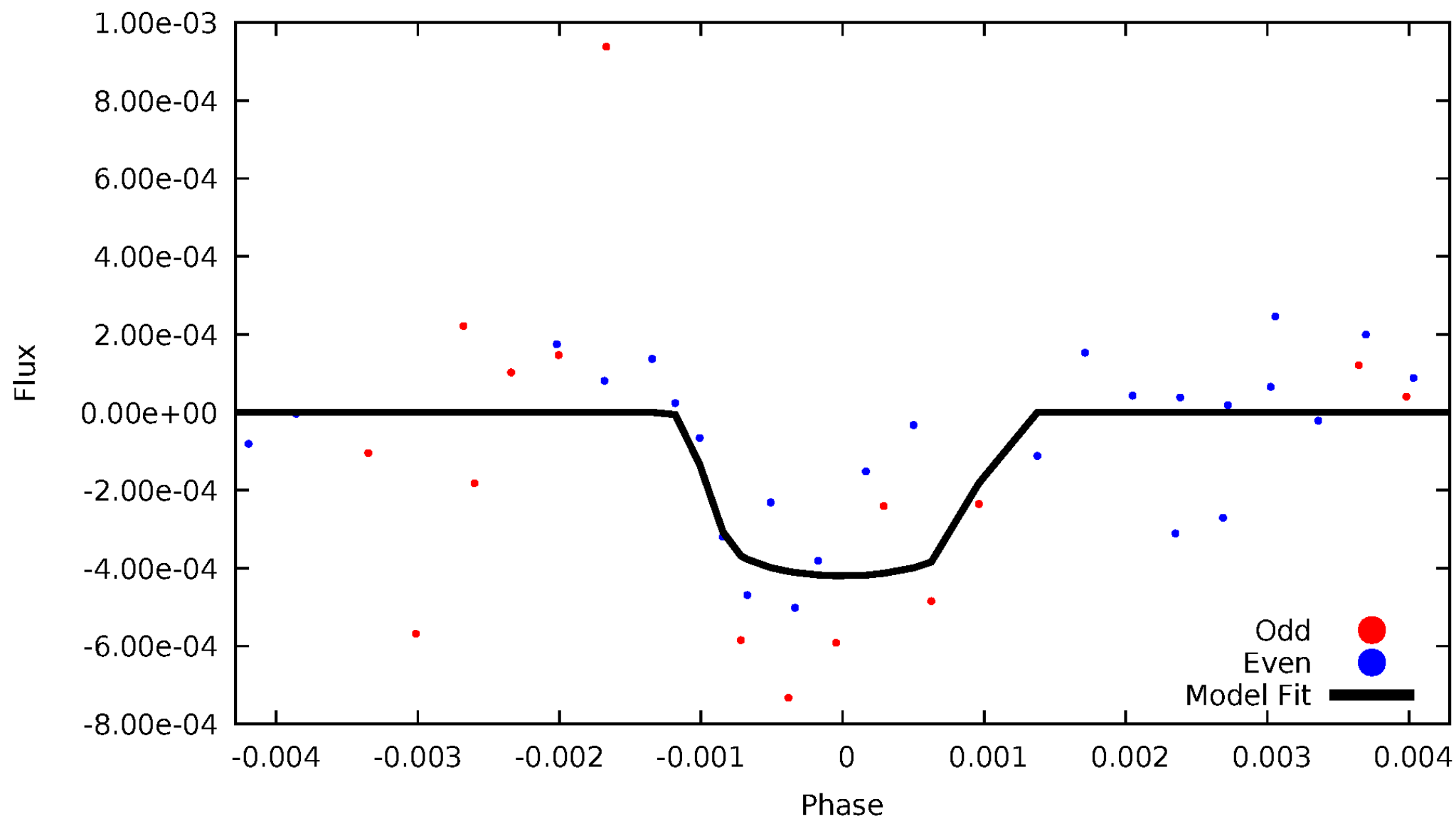


TCE 005725851-07



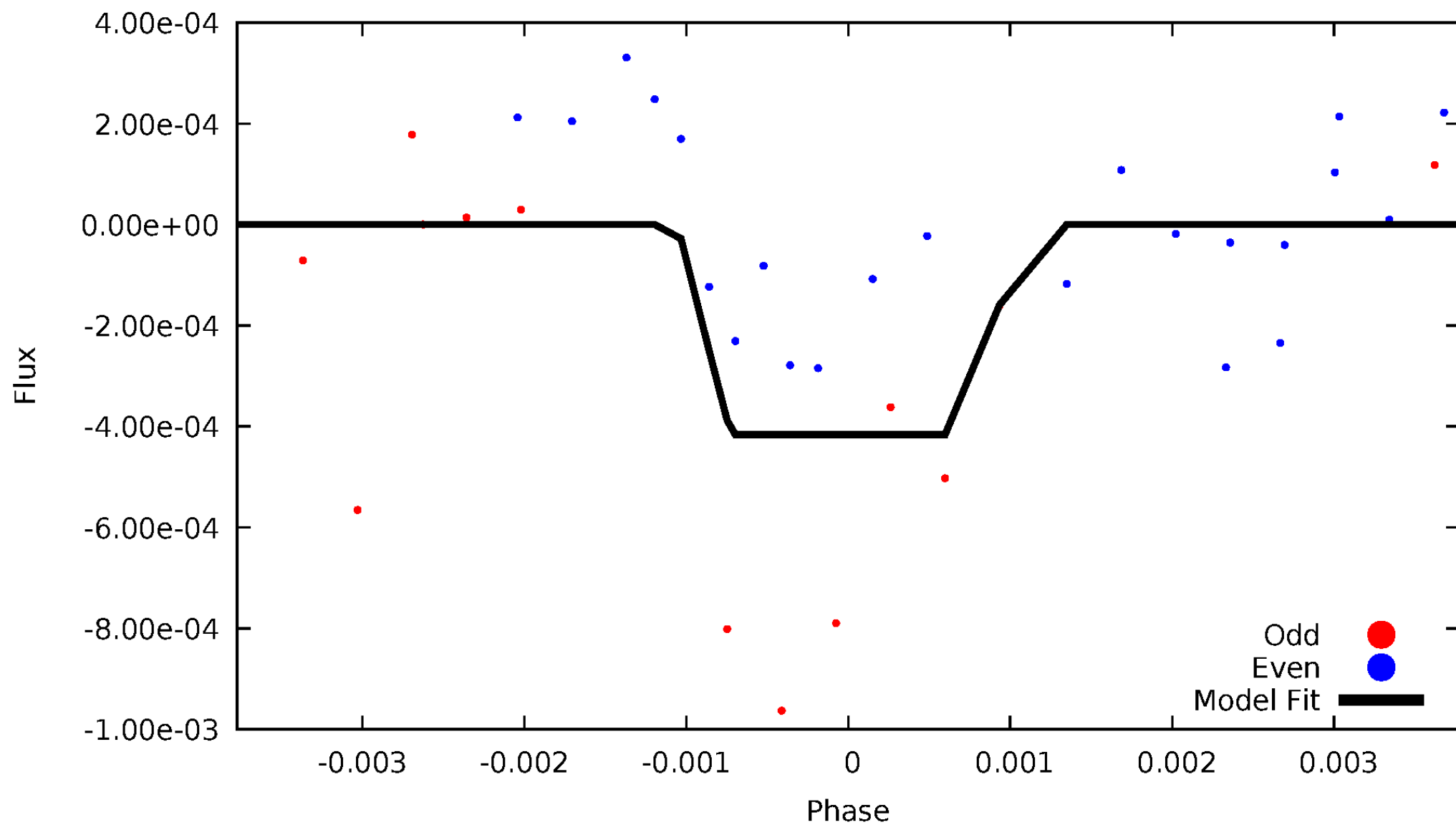
DV Odd/Even

TCE 005725851-07



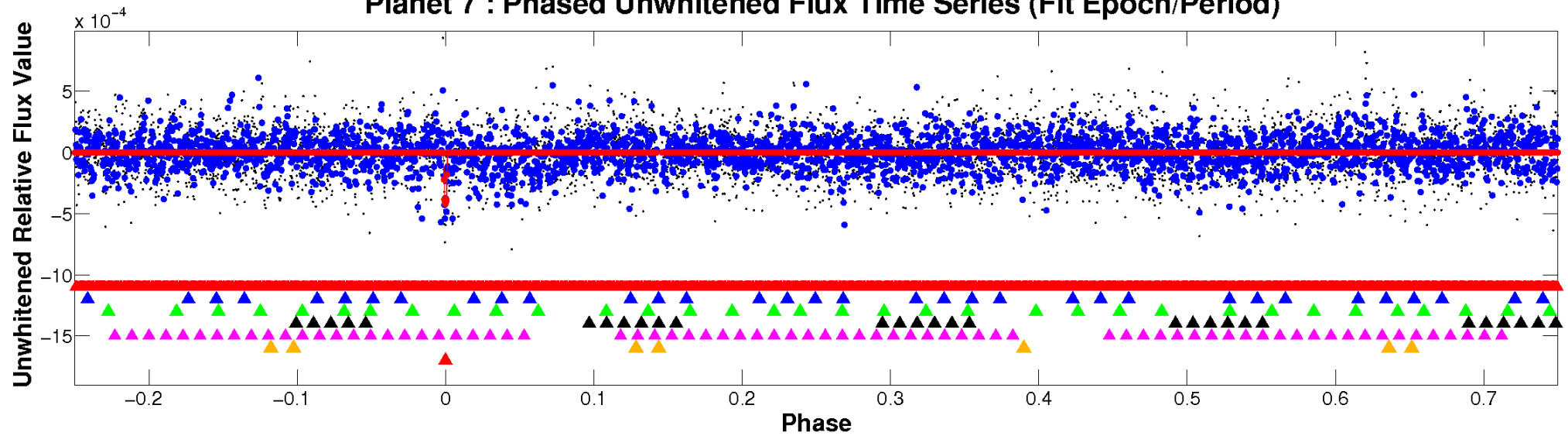
ALT Odd/Even

TCE 005725851-07

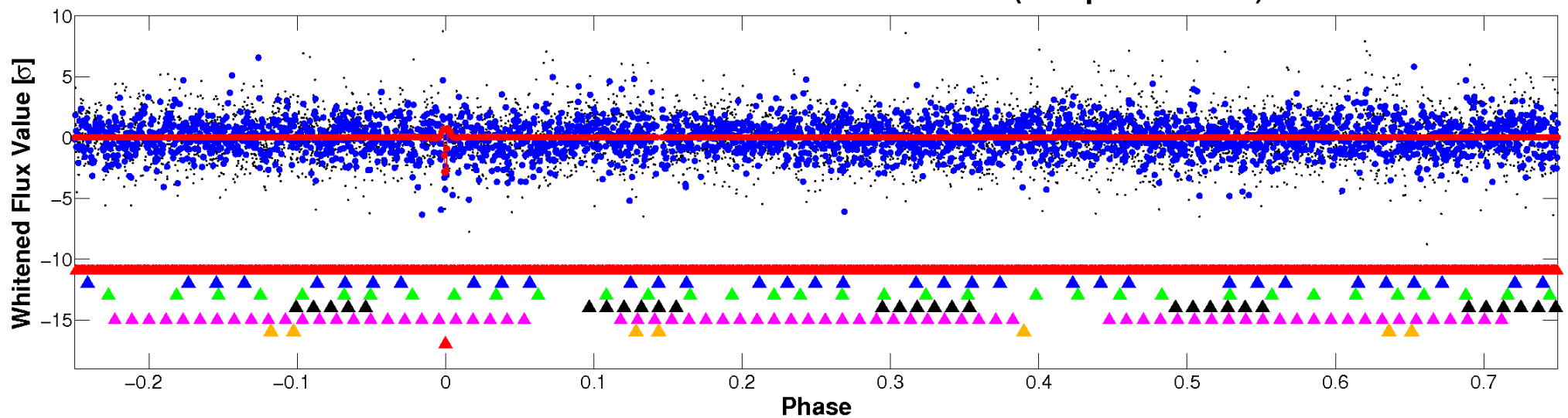


Non-Whitened Vs. Whitened Light Curve

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

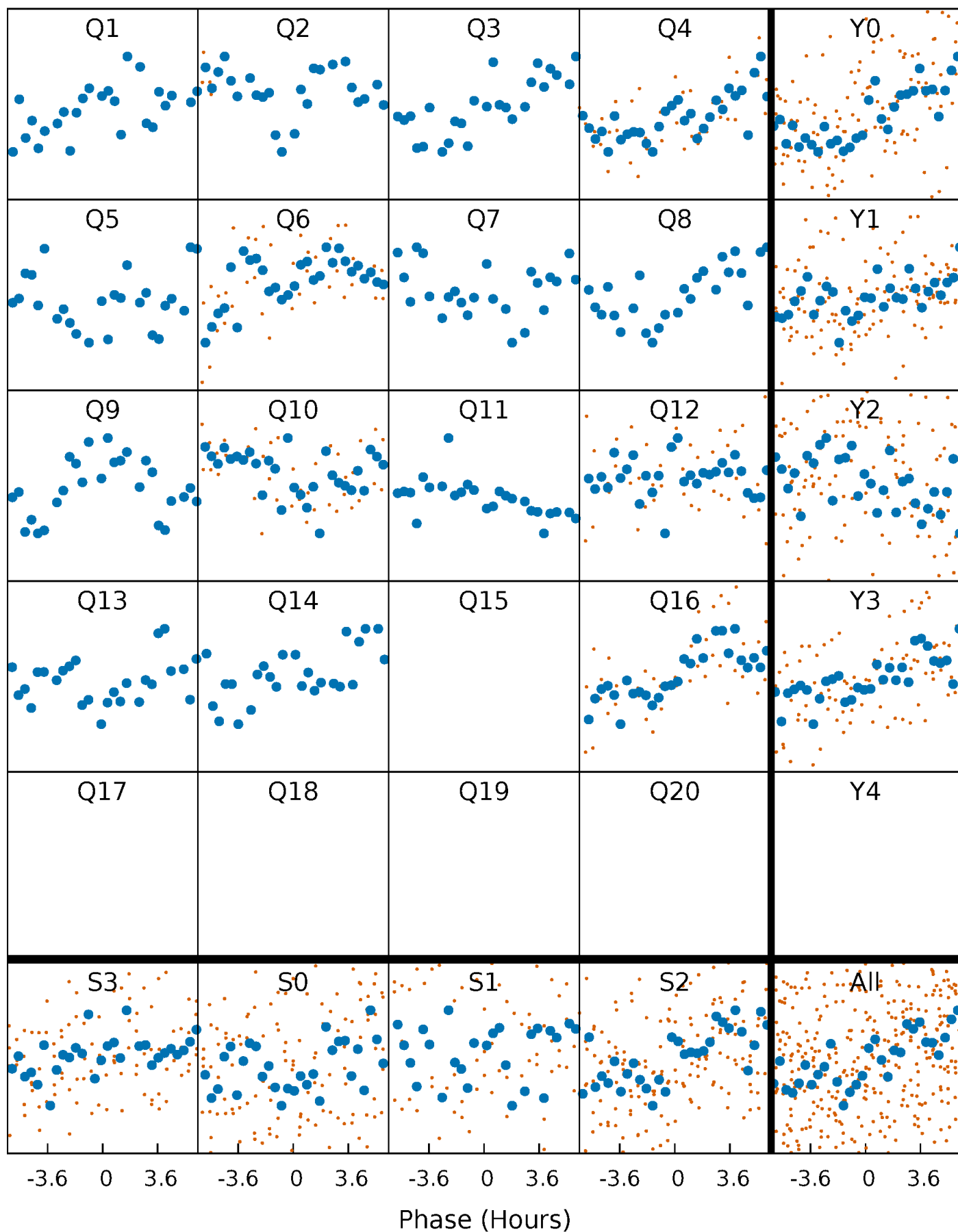


Planet 7 : Phased Whitened Flux Time Series (Fit Epoch/Period)



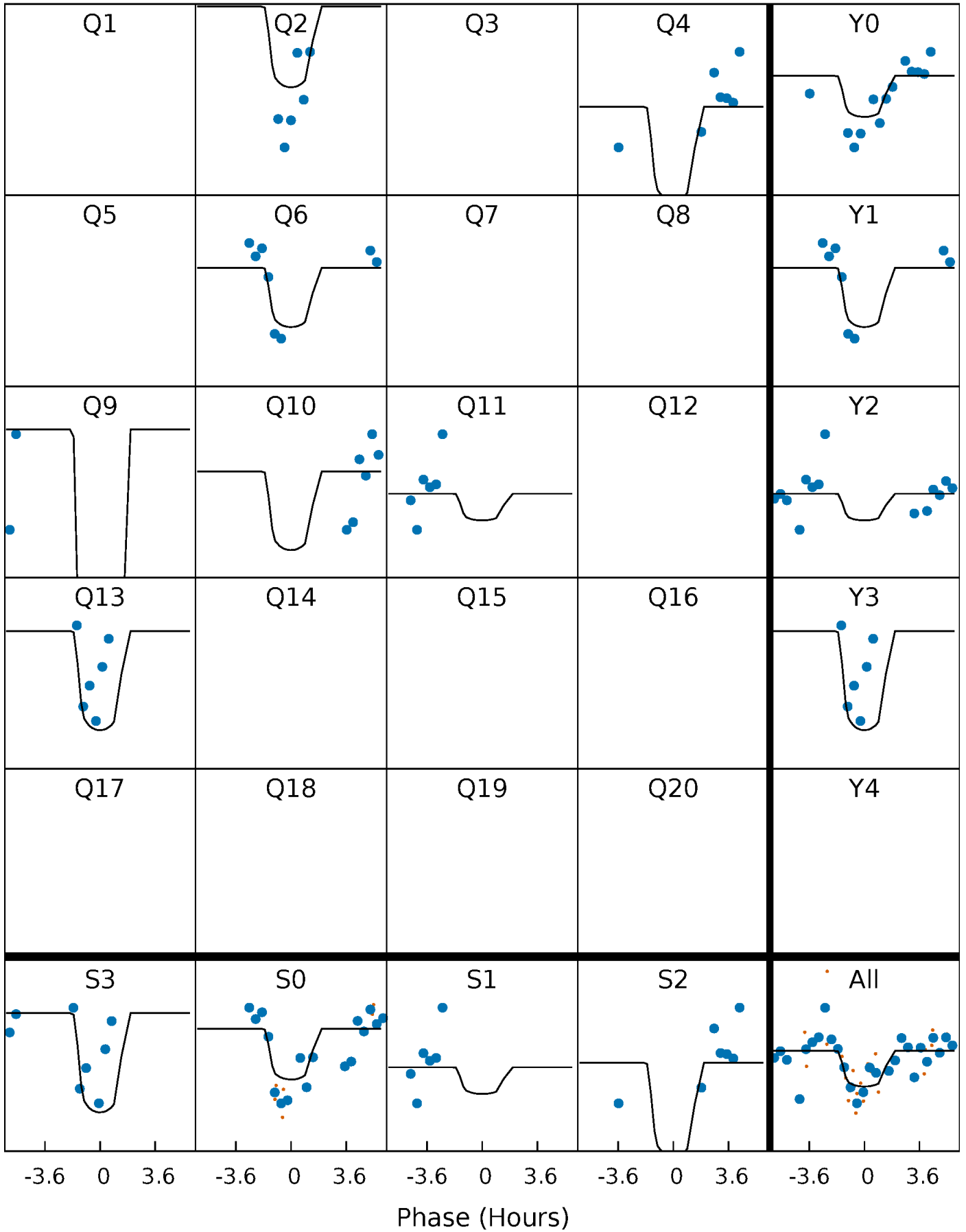
PDC Quarter-Phased Transit Curves

TCE 005725851-07 P= 60.766185 Days $T_0=137.160250$ (BKJD)



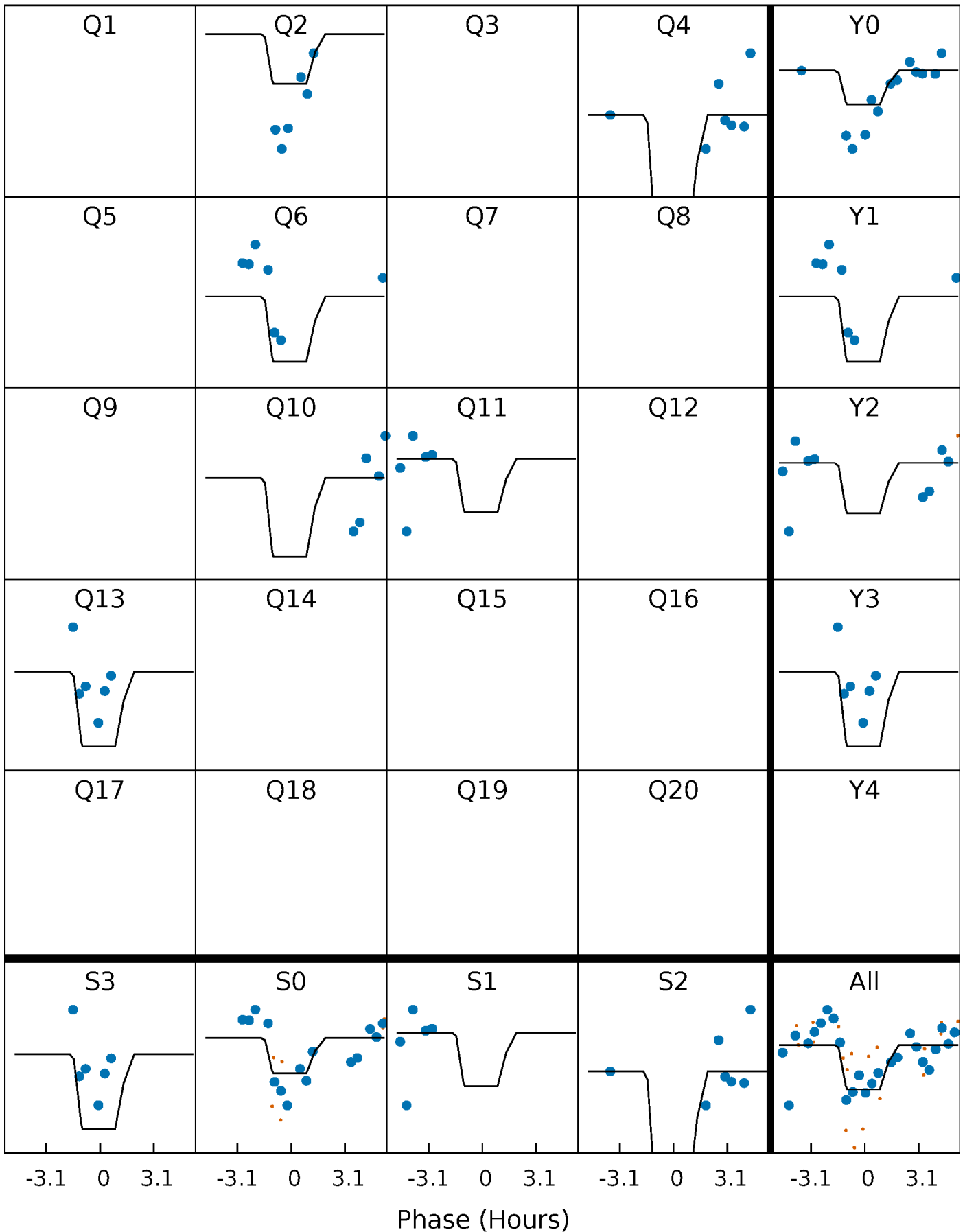
DV Quarter-Phased Transit Curves

TCE 005725851-07 $P = 60.766185$ Days $T_0 = 137.160250$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

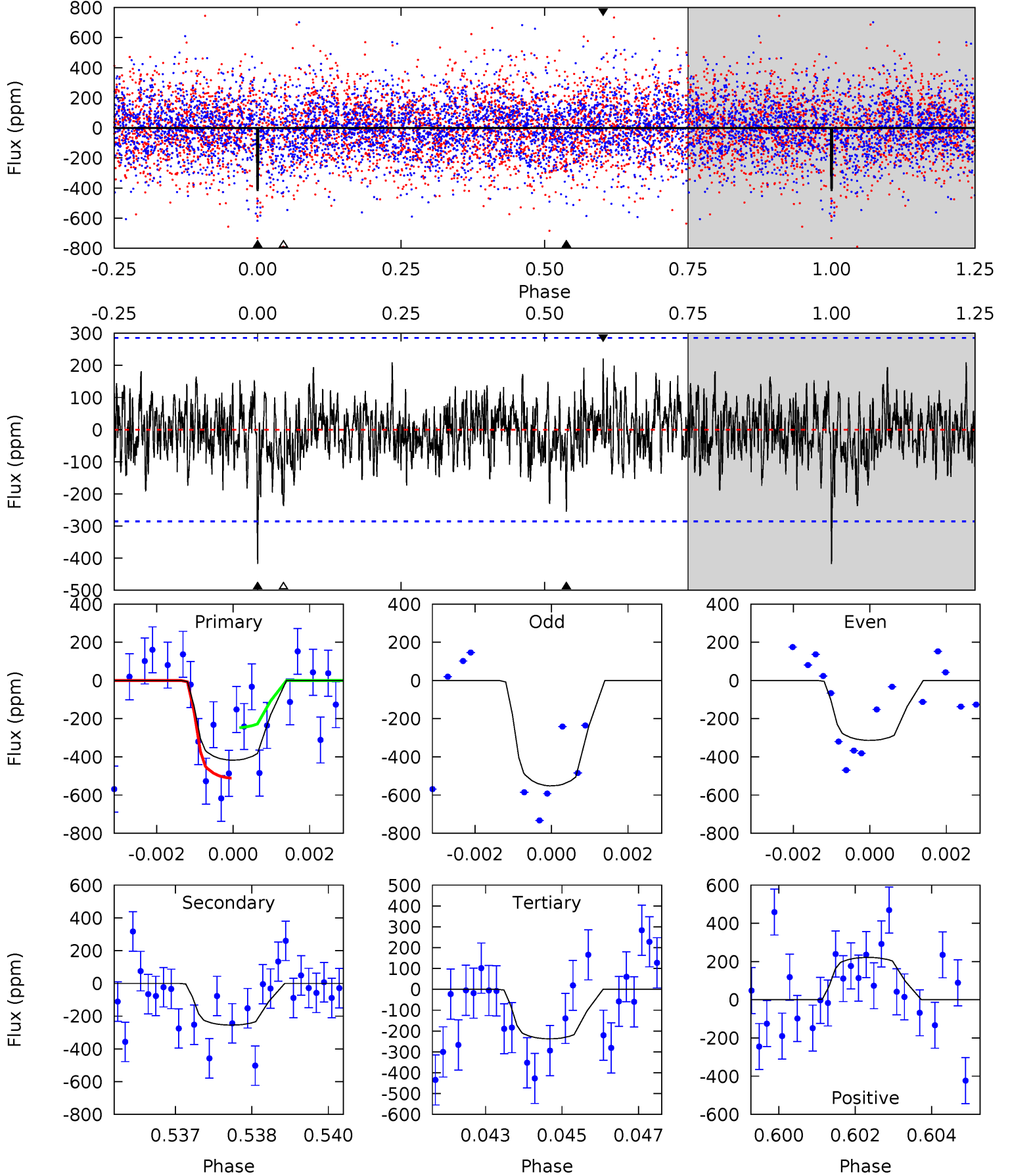
TCE 005725851-07 P= 60.766130 Days $T_0=137.162126$ (BKJD)



DV Model-Shift Uniqueness Test

005725851-07, P = 60.766185 Days, E = 76.394065 Days

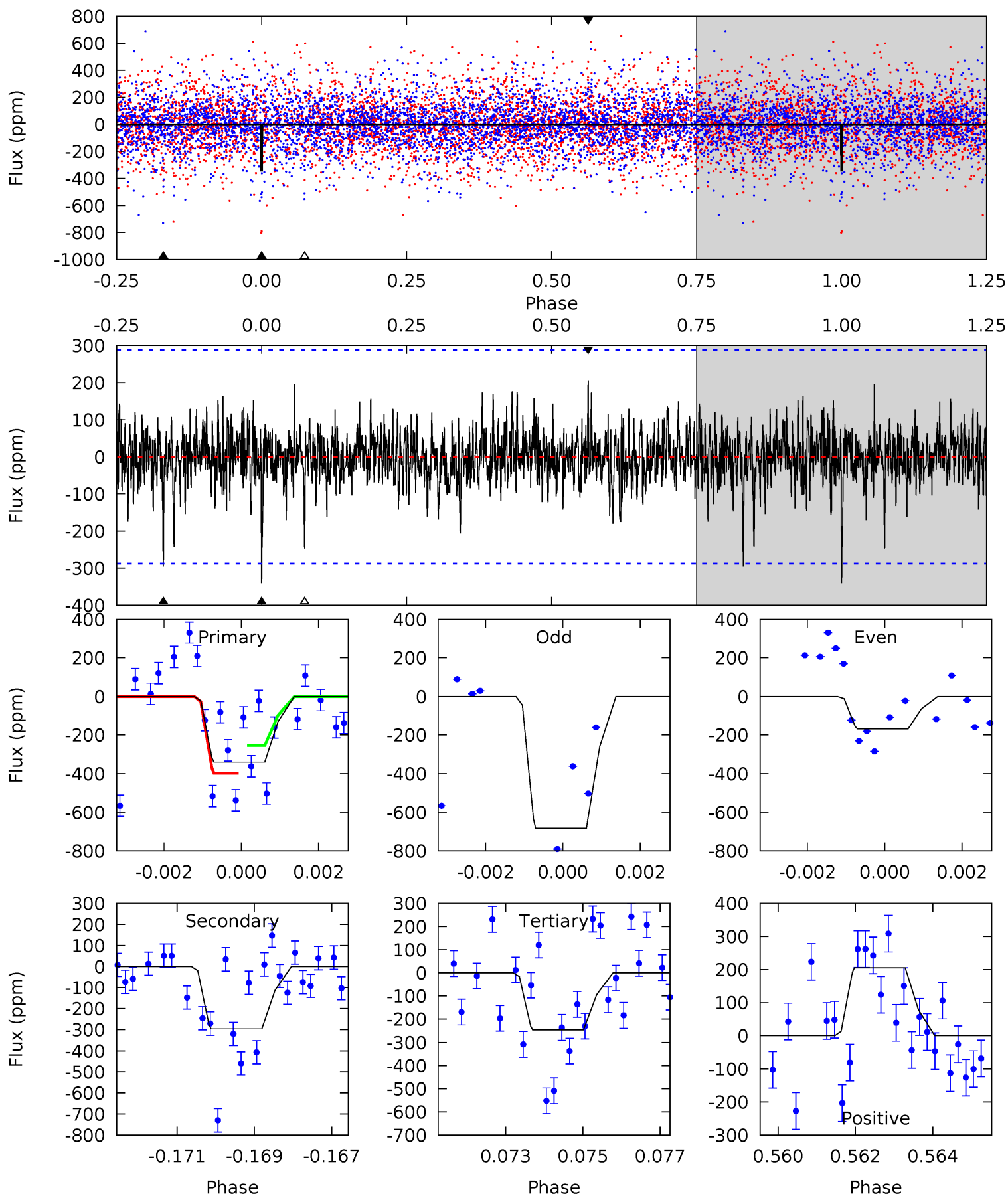
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
7.79	4.76	4.43	4.14	5.33	3.09	1.28	3.36	3.66	0.32	0.62	2.20	0.86	0.35	2.33



Alt Model-Shift Uniqueness Test

005725851-07, P = 60.766130 Days, E = 76.395996 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
6.30	5.48	4.56	3.80	5.33	3.10	1.06	1.74	2.50	0.92	1.68	4.92	1.42	0.38	1.27



Stellar Parameters For KIC 005725851

	$T_{\text{eff}} (K)$	$\log(g)$	$[\text{Fe}/\text{H}]$	$R (R_{\odot})$	$M (M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	6715^{+188}_{-235}	$3.211^{+0.488}_{-0.122}$	$-0.500^{+0.500}_{-0.250}$	$5.970^{+1.533}_{-3.066}$	$2.114^{+0.057}_{-0.513}$	$0.014^{+0.073}_{-0.006}$
	+3%/-3%	+15%/-4%	+100%/-50%	+26%/-51%	+3%/-24%	+518%/-42%
Source	PHO1	FLK73	KIC0	DSEP		

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

Secondary Eclipse Parameters for KIC 005725851-07 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{\text{max}} (K)$	$T_{\text{obs}} (K)$	A_{obs}
DV	-255 ± 54	$12.81^{+10.05}_{-7.80}$	1576^{+135}_{-215}	5597^{+3711}_{-1127}	121^{+591}_{-83}
Alt.	-296 ± 54	$12.66^{+8.92}_{-7.38}$	1559^{+143}_{-190}	5851^{+3517}_{-1244}	140^{+672}_{-91}

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

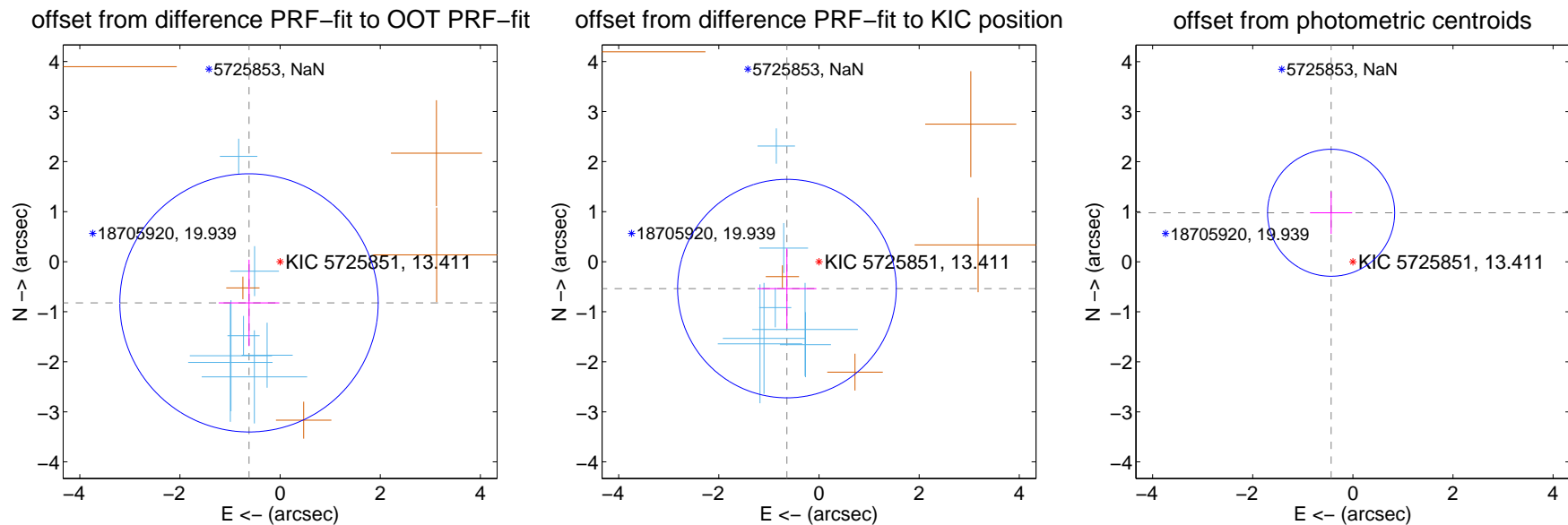
DV Centroid Data

Supplemental centroid analysis for 005725851-07. Kepler magnitude: 13.41. Transit SNR 9.39

There are 7 quarters with good PRF difference image offsets

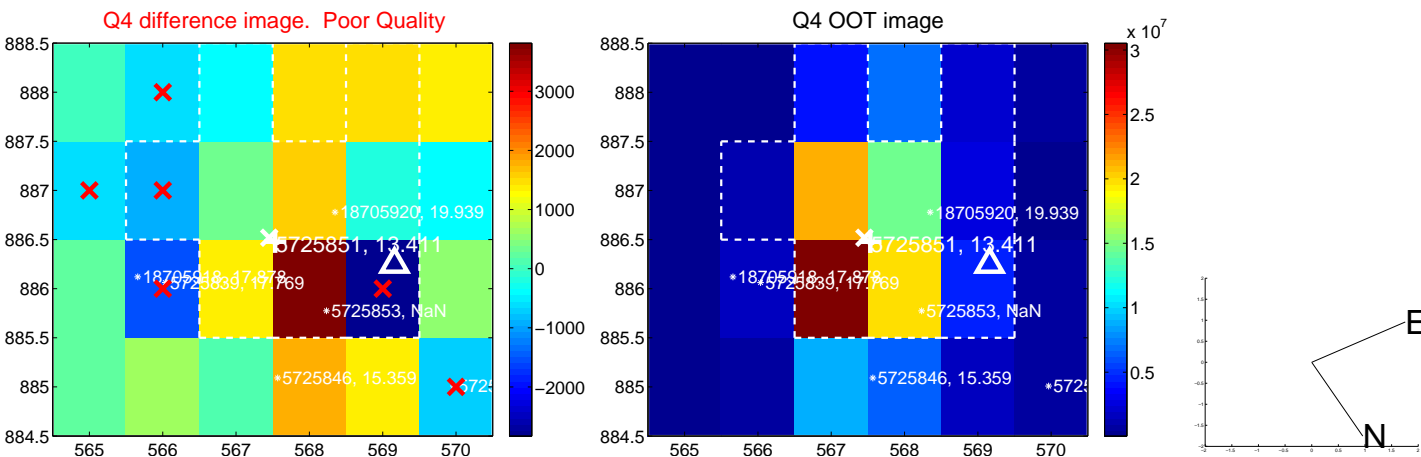
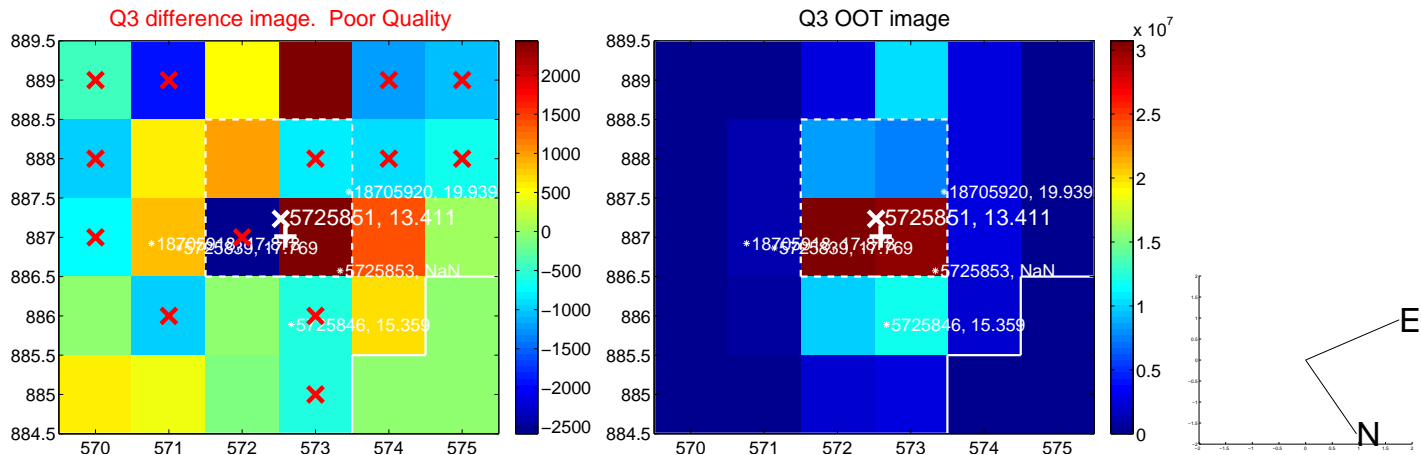
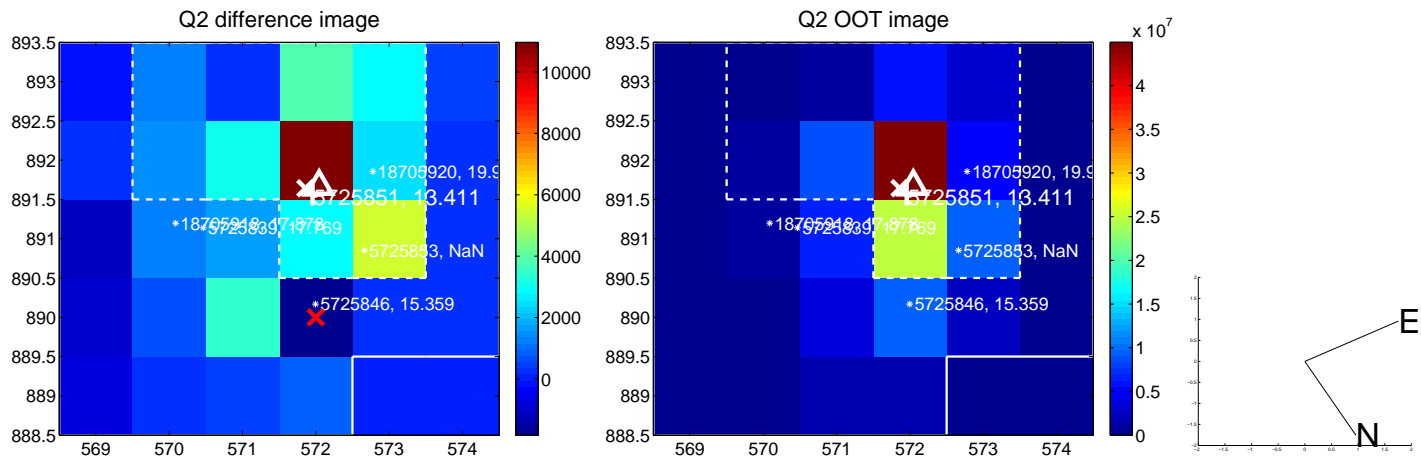
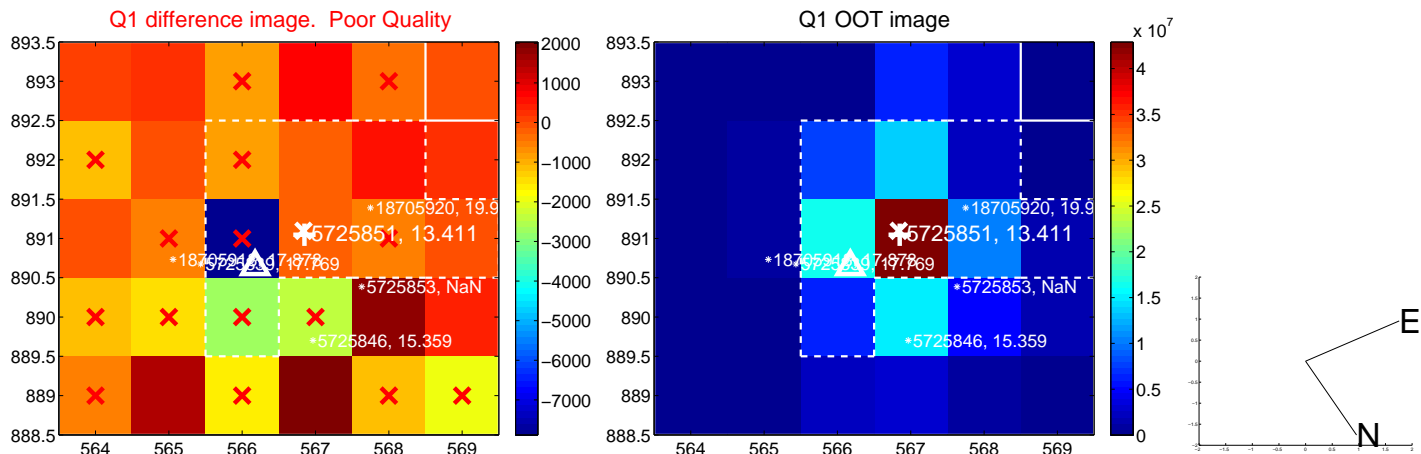
The direct PRF centroid is offset from the target star catalog position by about 0.37 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	1.031 ± 0.860	1.20	0.621 ± 0.607	-0.823 ± 0.863
PRF-fit source offset from KIC position	0.836 ± 0.728	1.15	0.640 ± 0.588	-0.537 ± 0.802
photometric centroid source offset	1.07 ± 0.42	2.53	0.43 ± 0.42	0.98 ± 0.42

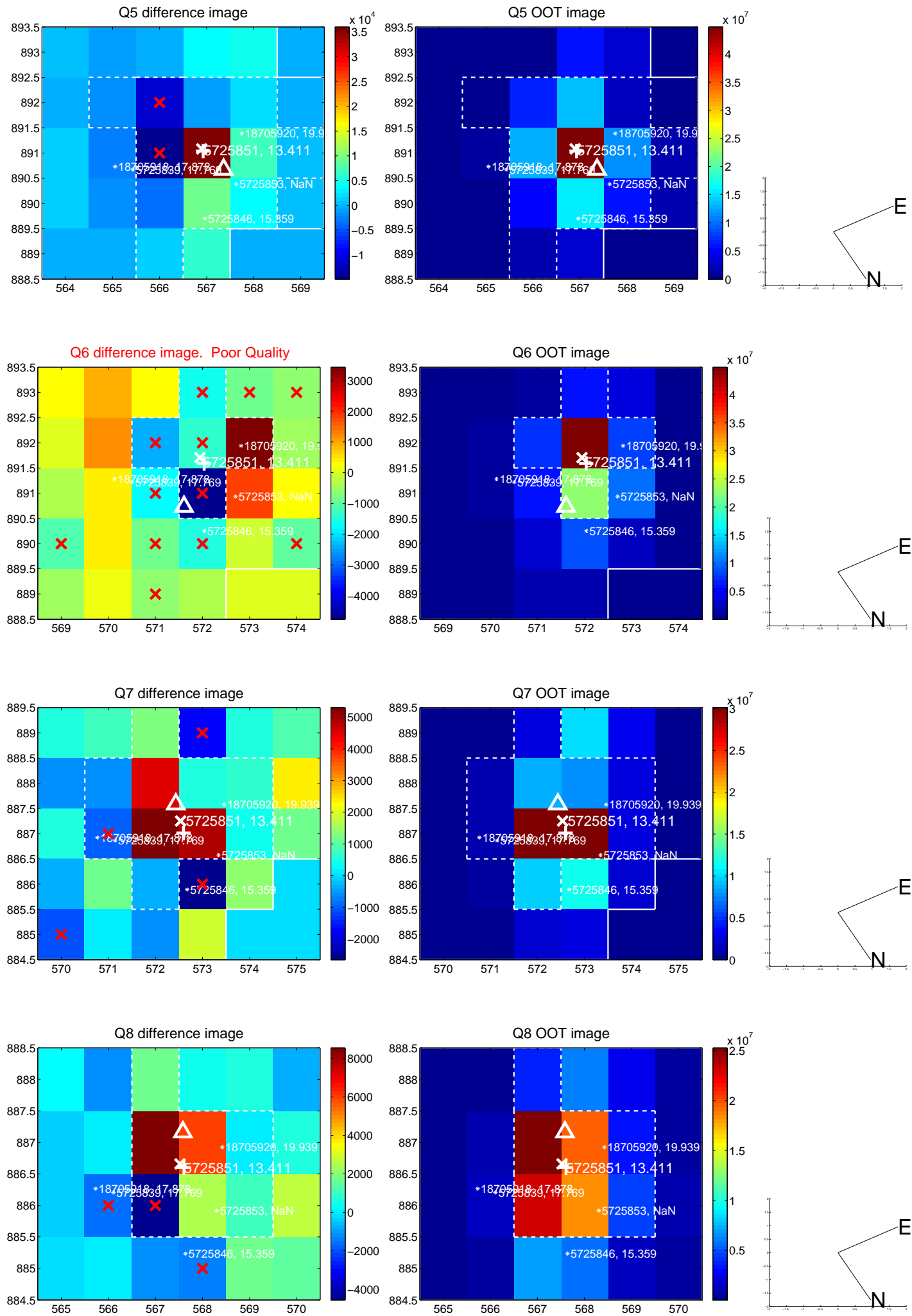


Centroid source offsets from the target star reconstructed from PRF and photometric centroids. **Sky blue crosses:** good quarterly centroid offsets; **Vermillion crosses:** bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three-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

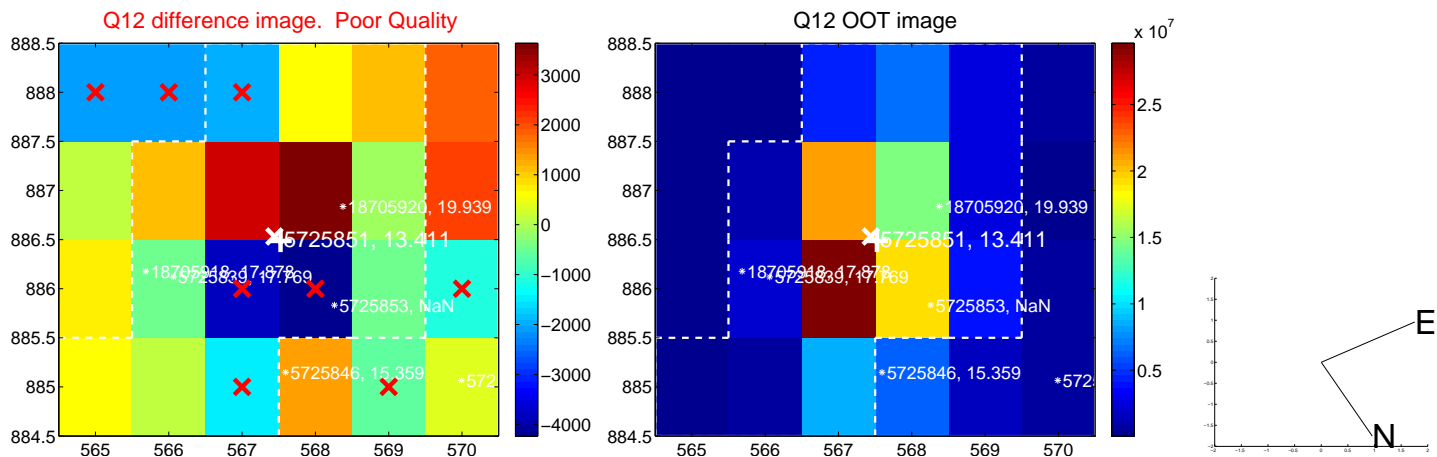
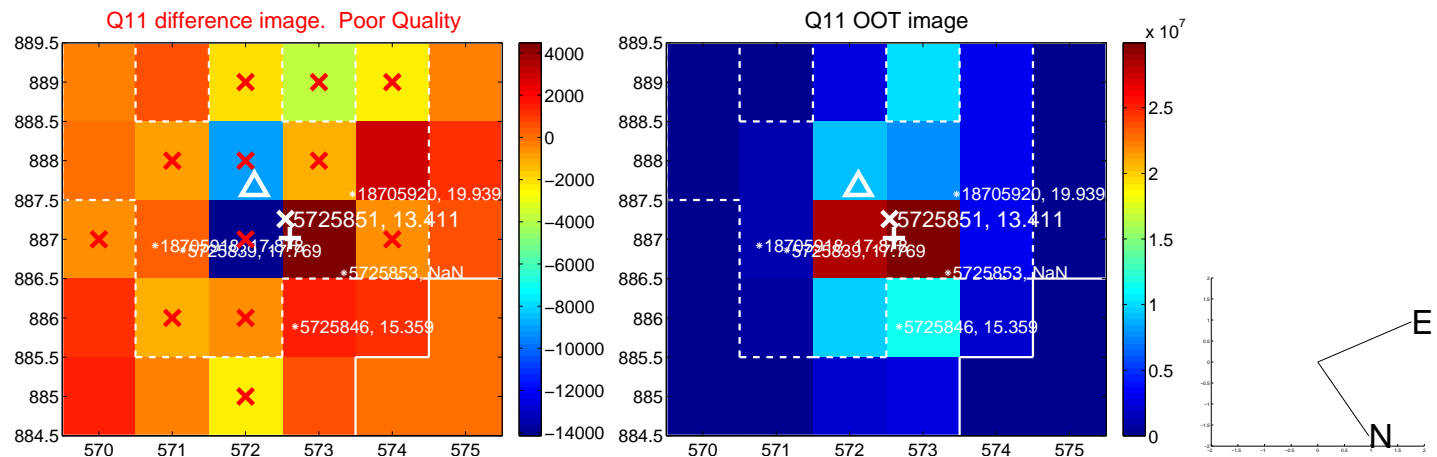
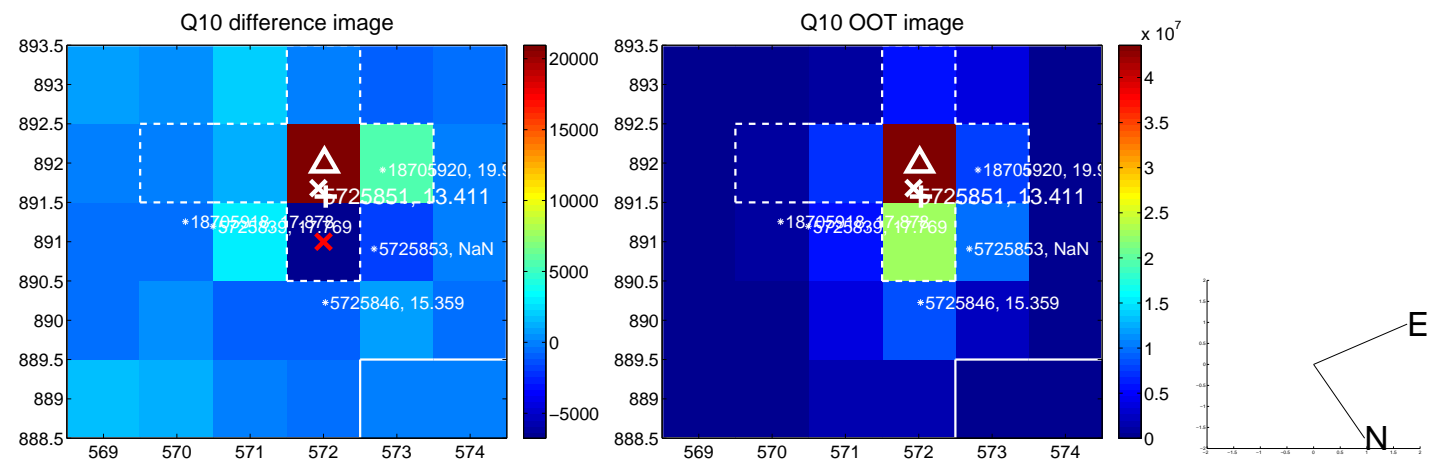
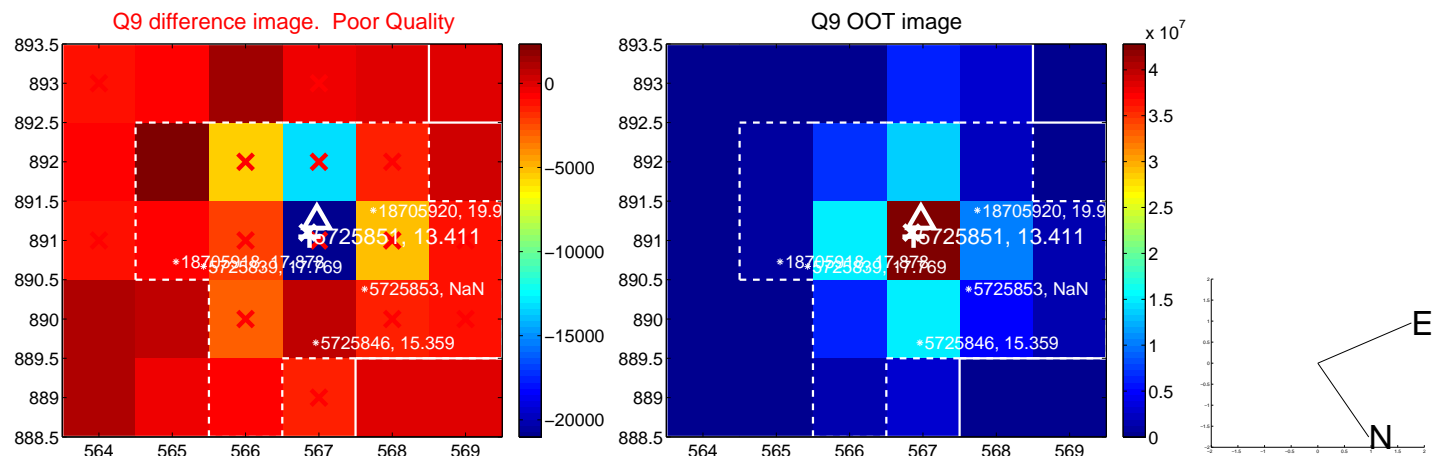
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



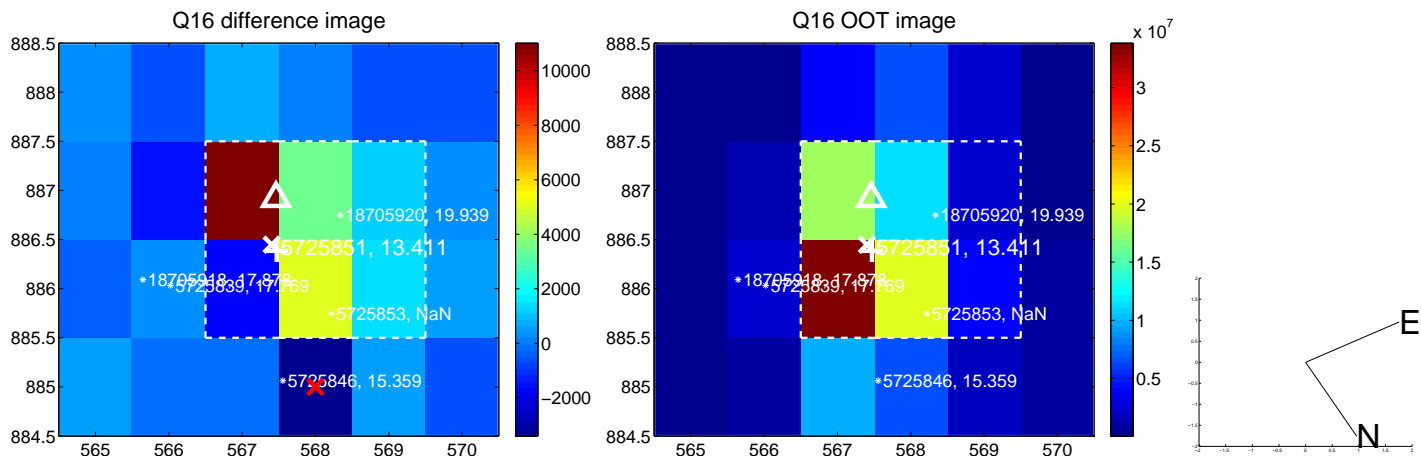
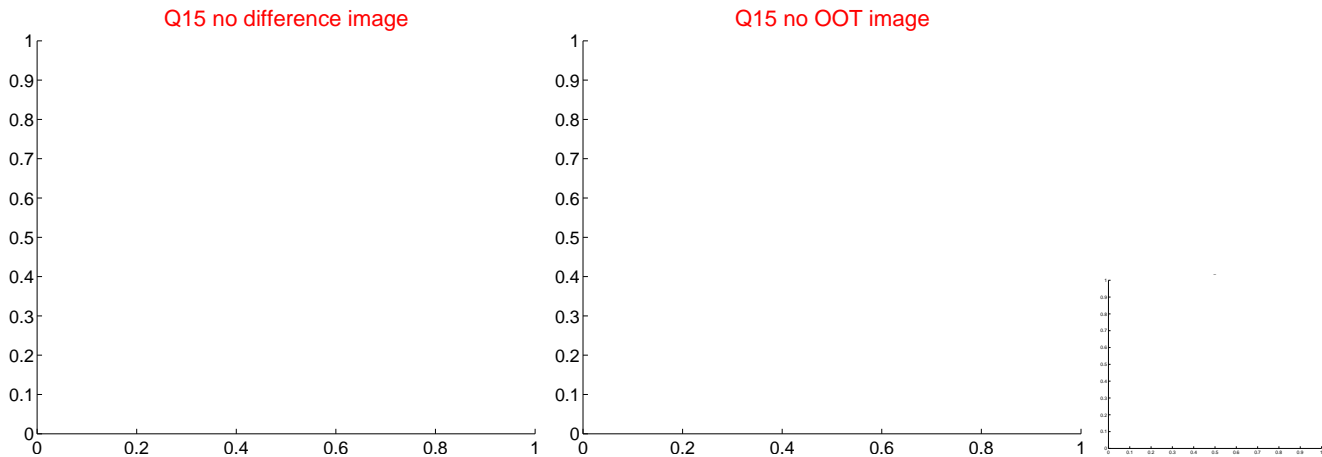
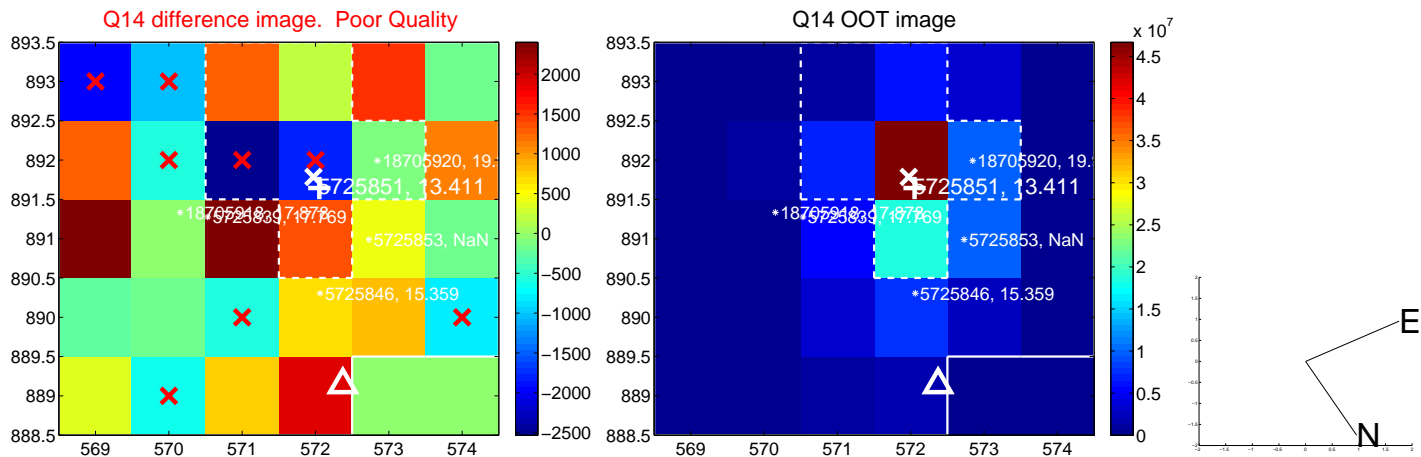
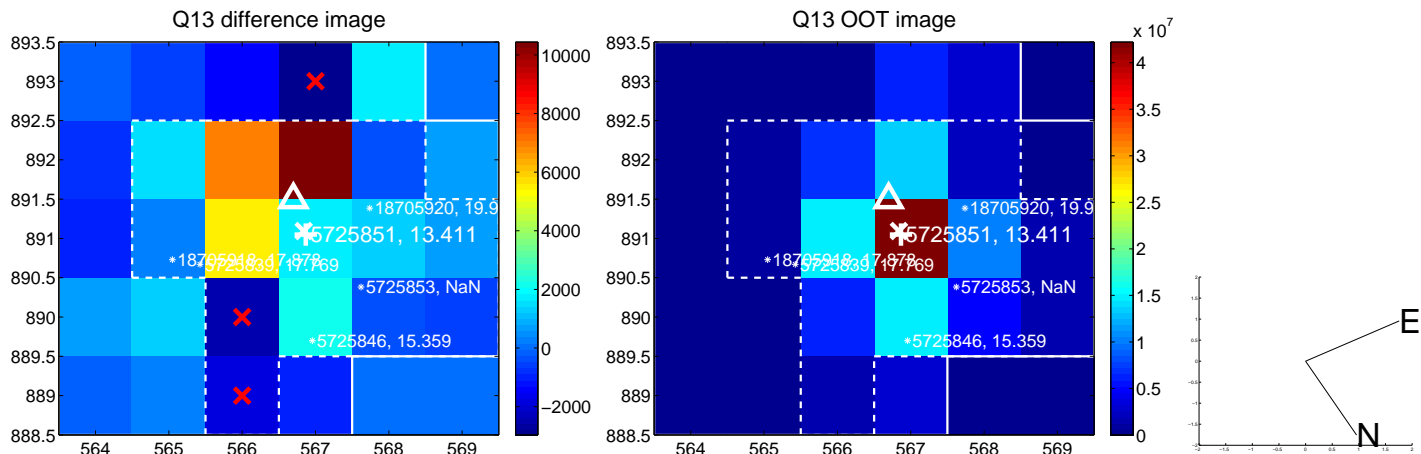
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



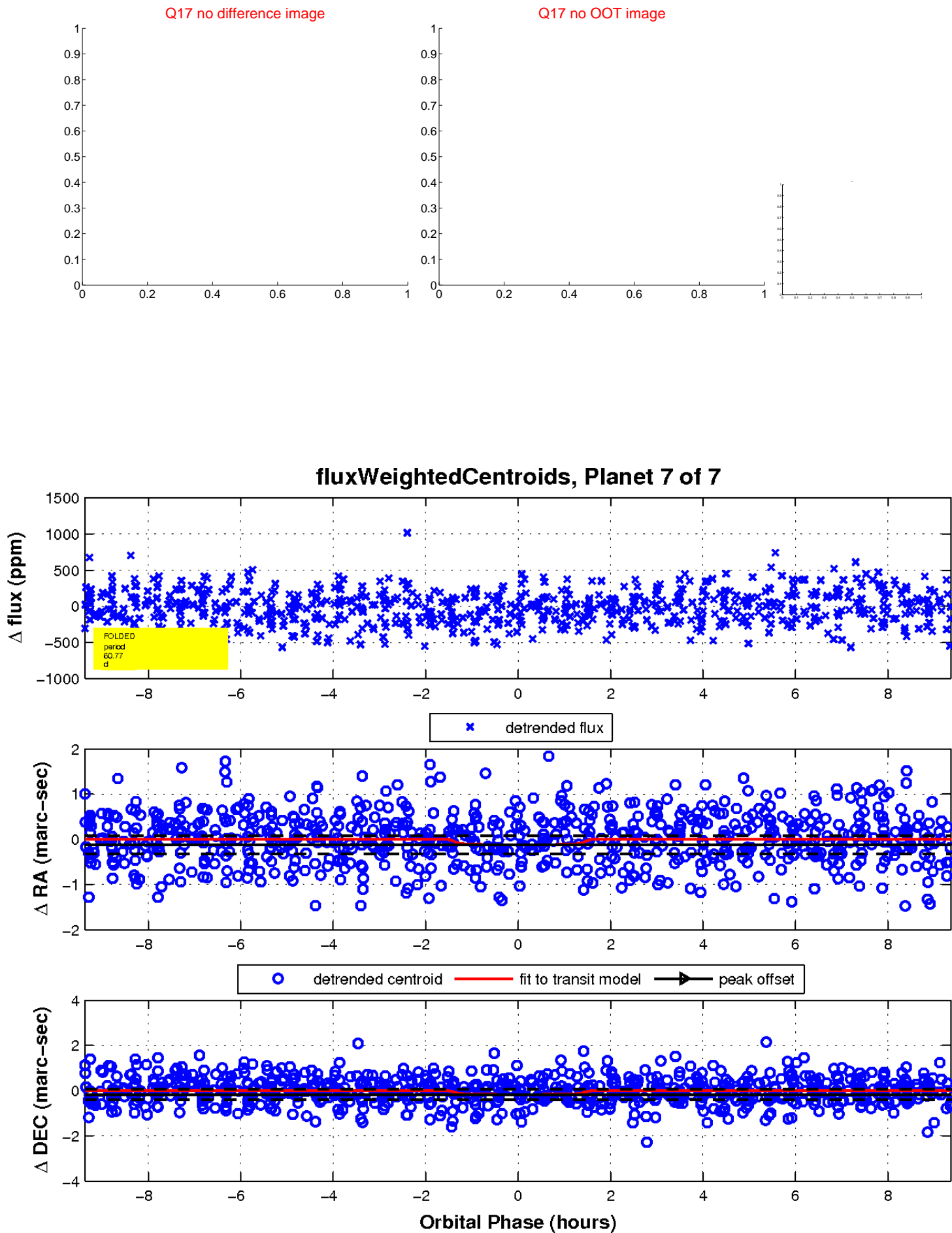
white \times : KIC target position; +: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



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

