

# KIC 007198925

## 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)	$R_p$ ( $R_{\oplus}$ )	$S_p$ ( $S_{\oplus}$ )
007198925-01	OBS	No	0.565727	131.998494	166959.1	1.500	289.1	-1.0	0.66	4300	26.34	964.58

## Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
007198925-01	OBS	FP	0.00	1	0	0	0	LPP_DV—LPP_ALT—MOD_NONUNIQ_ALT—CENT_NOFITS

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

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

See [http://exoplanetarchive.ipac.caltech.edu/docs/API\\_kepcandidate\\_columns.html#proj\\_disp\\_col](http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col) for comment definitions.

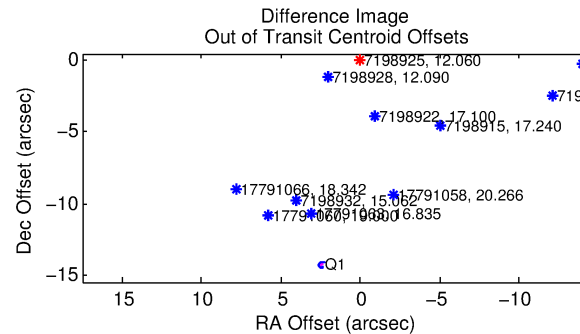
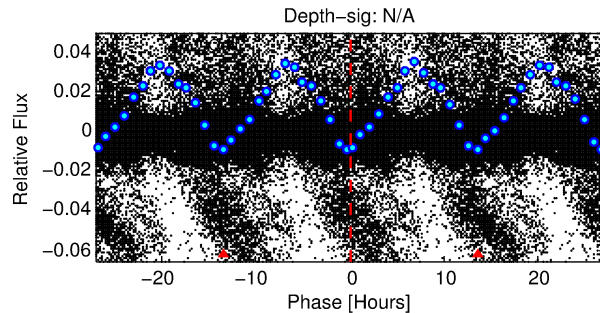
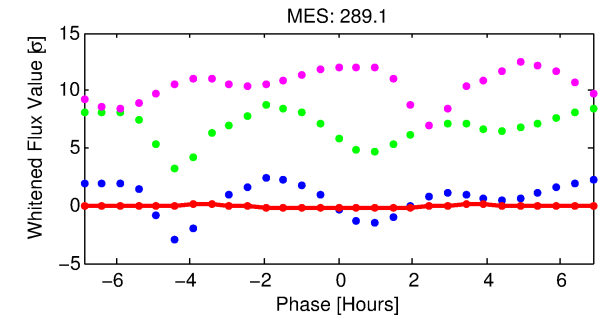
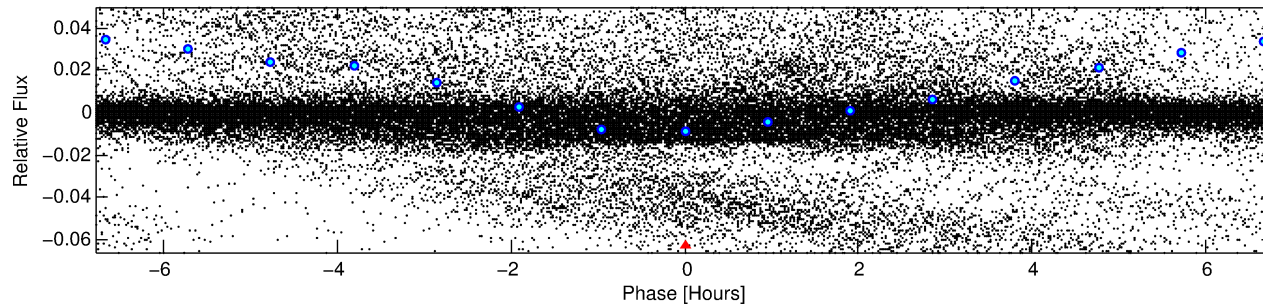
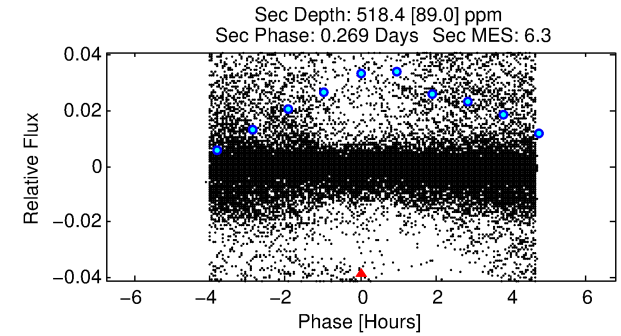
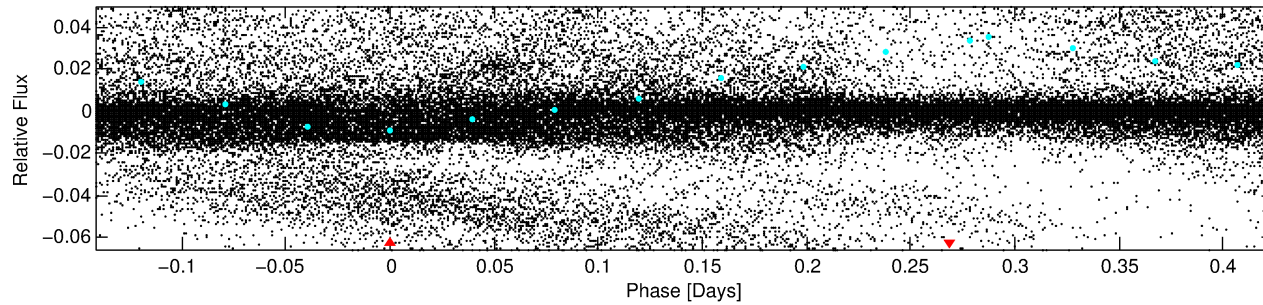
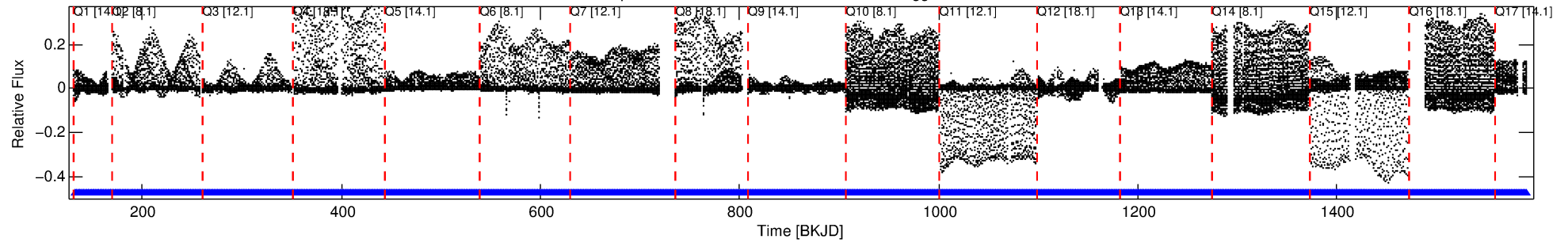
## Ephemeris Match Information For 007198925-01

No Significant Match Found

# DV One-Page Summary

KIC: 7198925 Candidate: 1 of 1 Period: 0.566 d

Kp: 12.06 R\*: 0.66 Rs Teff: 4300.0 K Logg: 4.63 Fe/H: 0.060



TPS TCE Results:

Period = 0.56573 d  
Epoch = 131.9985 BKJD

DV fit results are unavailable

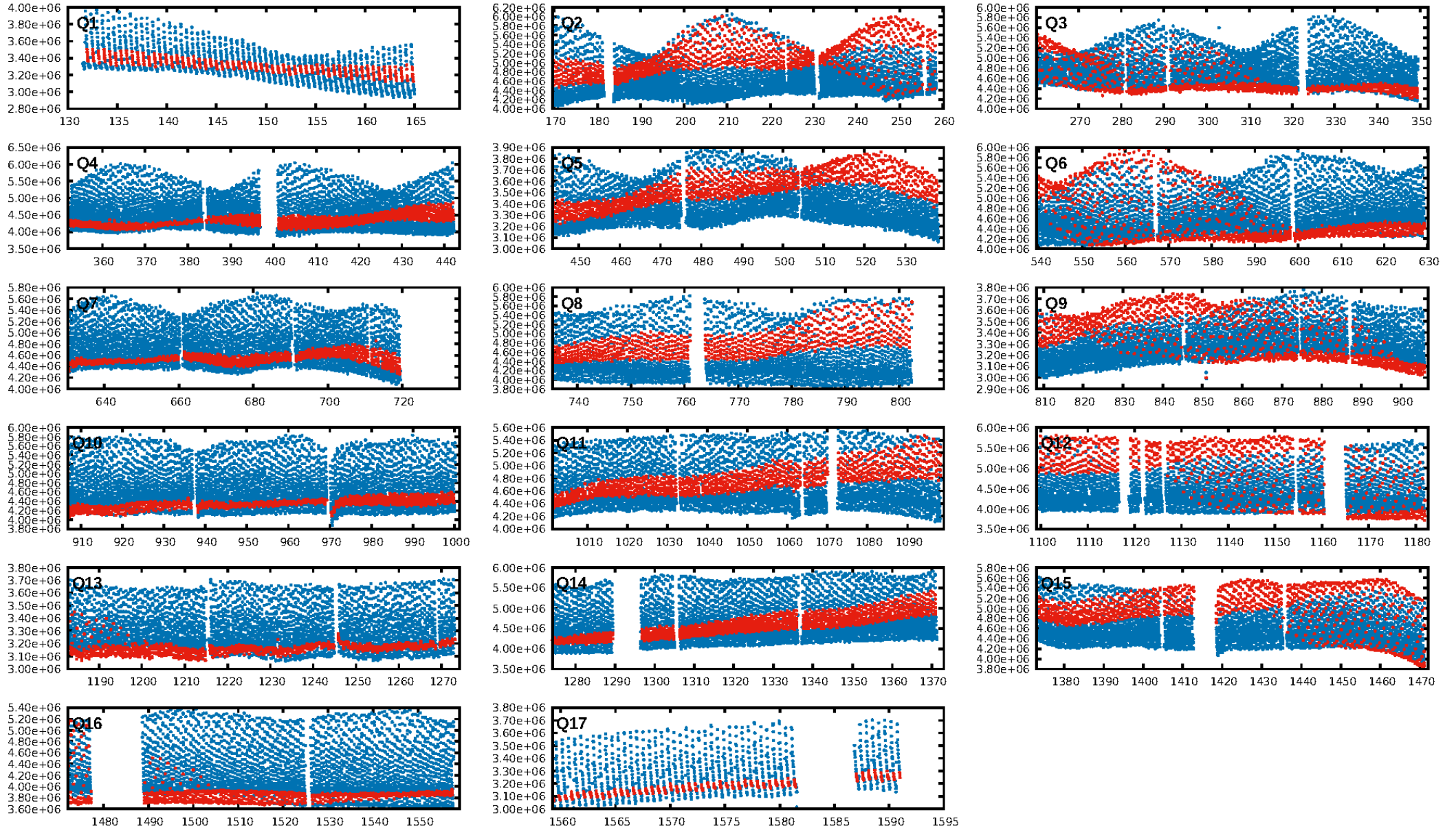
DV Diagnostic Results:

ShortPeriod-sig: N/A  
LongPeriod-sig: N/A  
ModelChiSquare2-sig: N/A  
ModelChiSquareGof-sig: N/A  
Bootstrap-pfa: N/A  
RollingBand-fgt: 1.00 [2272/2272]  
GhostDiagnostic-chr: N/A  
Centroid-sig: N/A  
Centroid-so: 0.604 arcsec [25.86σ]  
OotOffset-rm: 14.490 arcsec [217.24σ]  
KicOffset-rm: 10.721 arcsec [12.77σ]  
OotOffset-st: 0/0/0/1 [1]  
KicOffset-st: 0/0/4/2 [6]  
DiffImageQuality-fgm: 0.00 [0/6]  
DiffImageOverlap-fno: 1.00 [17/17]

Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 17:22:40 Z

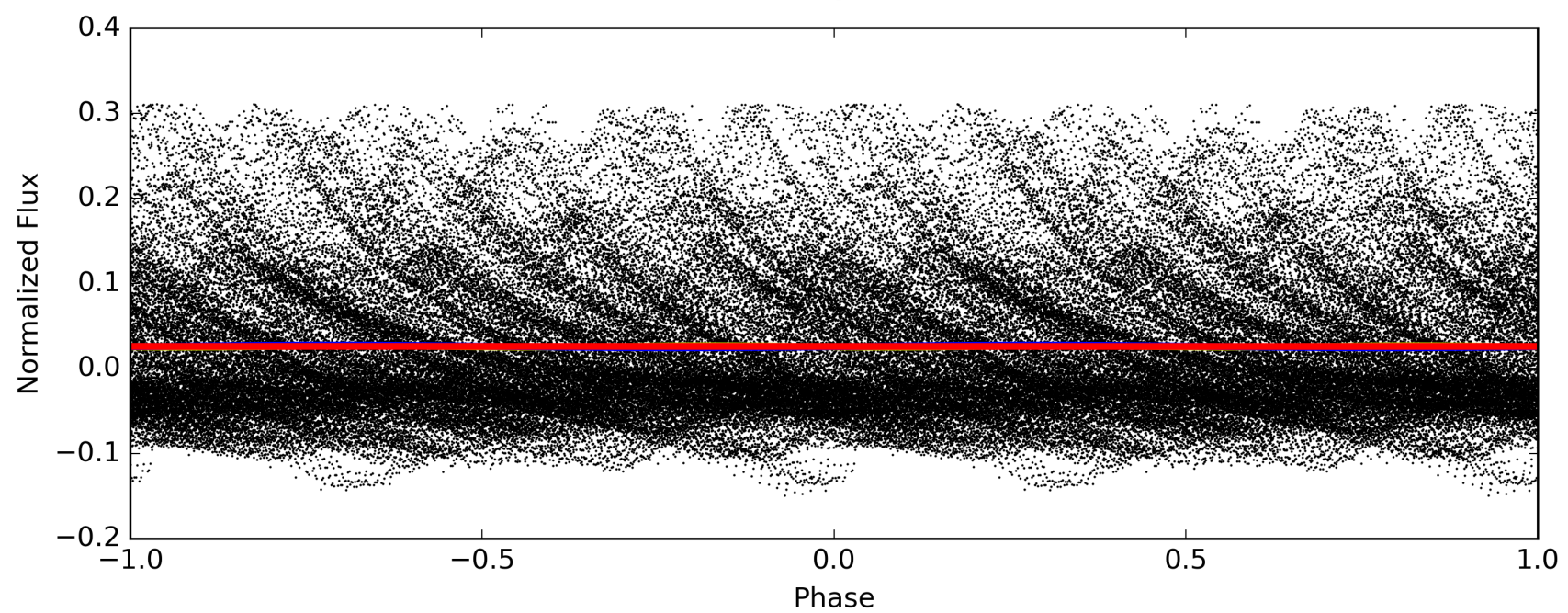
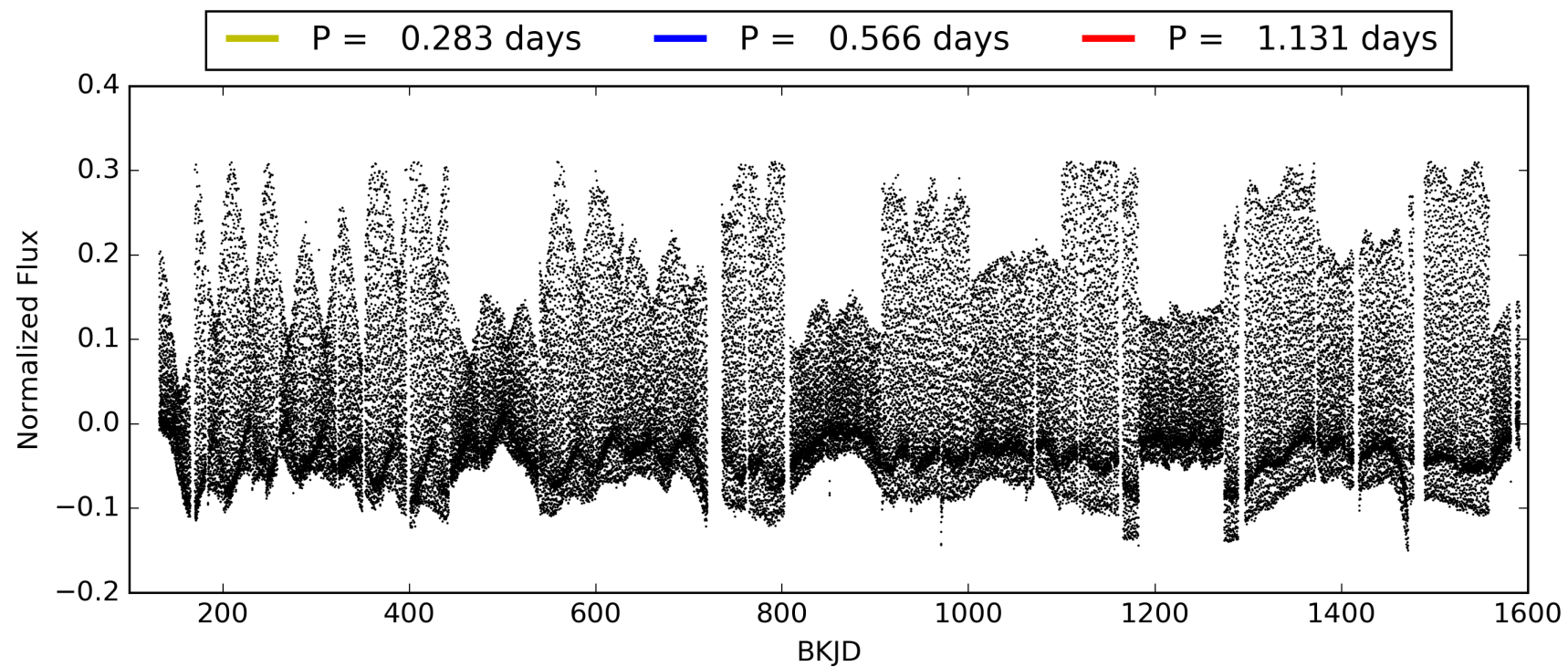
This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

# TCE 007198925-01, PDC Light Curves



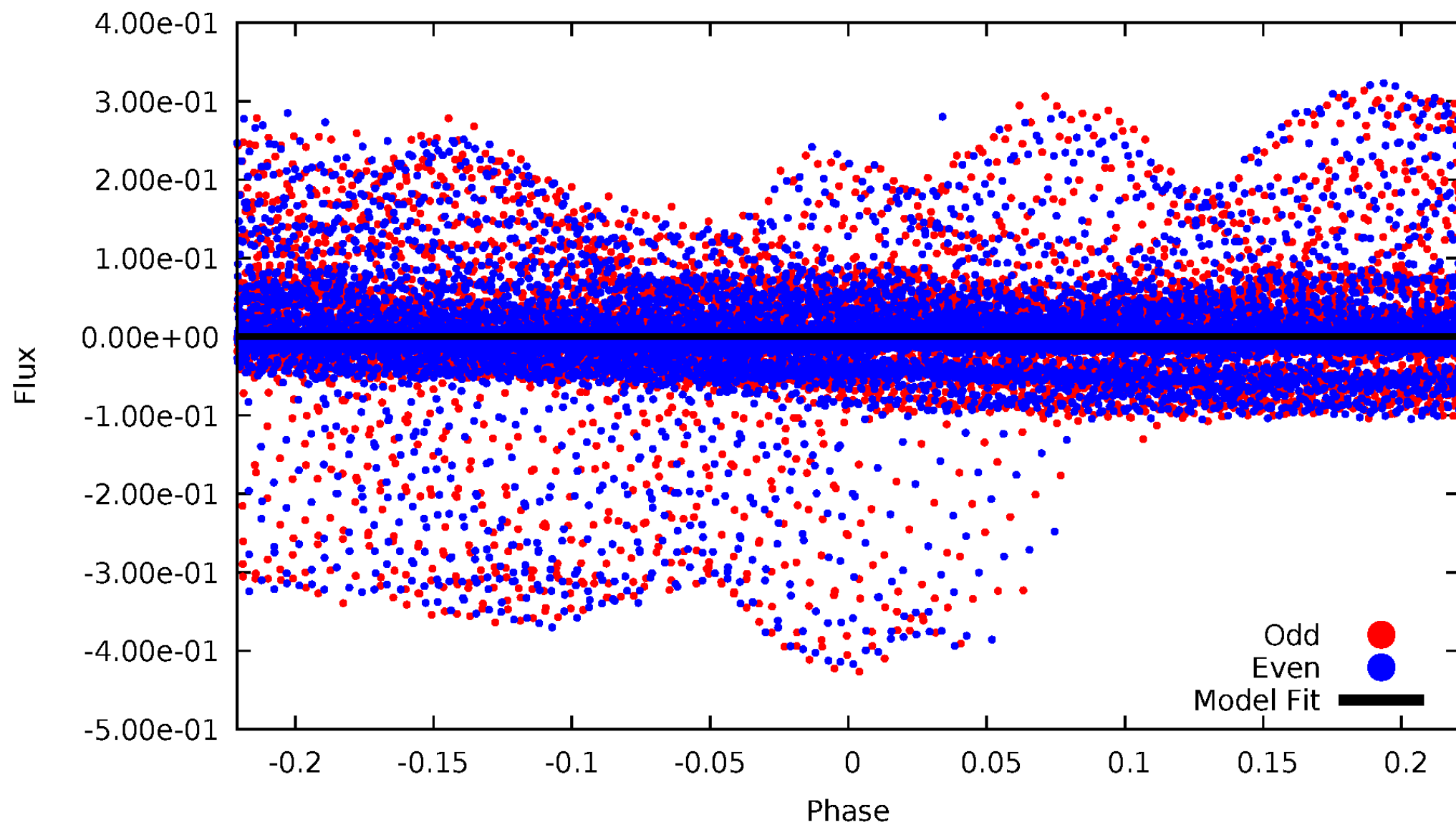


TCE 007198925-01



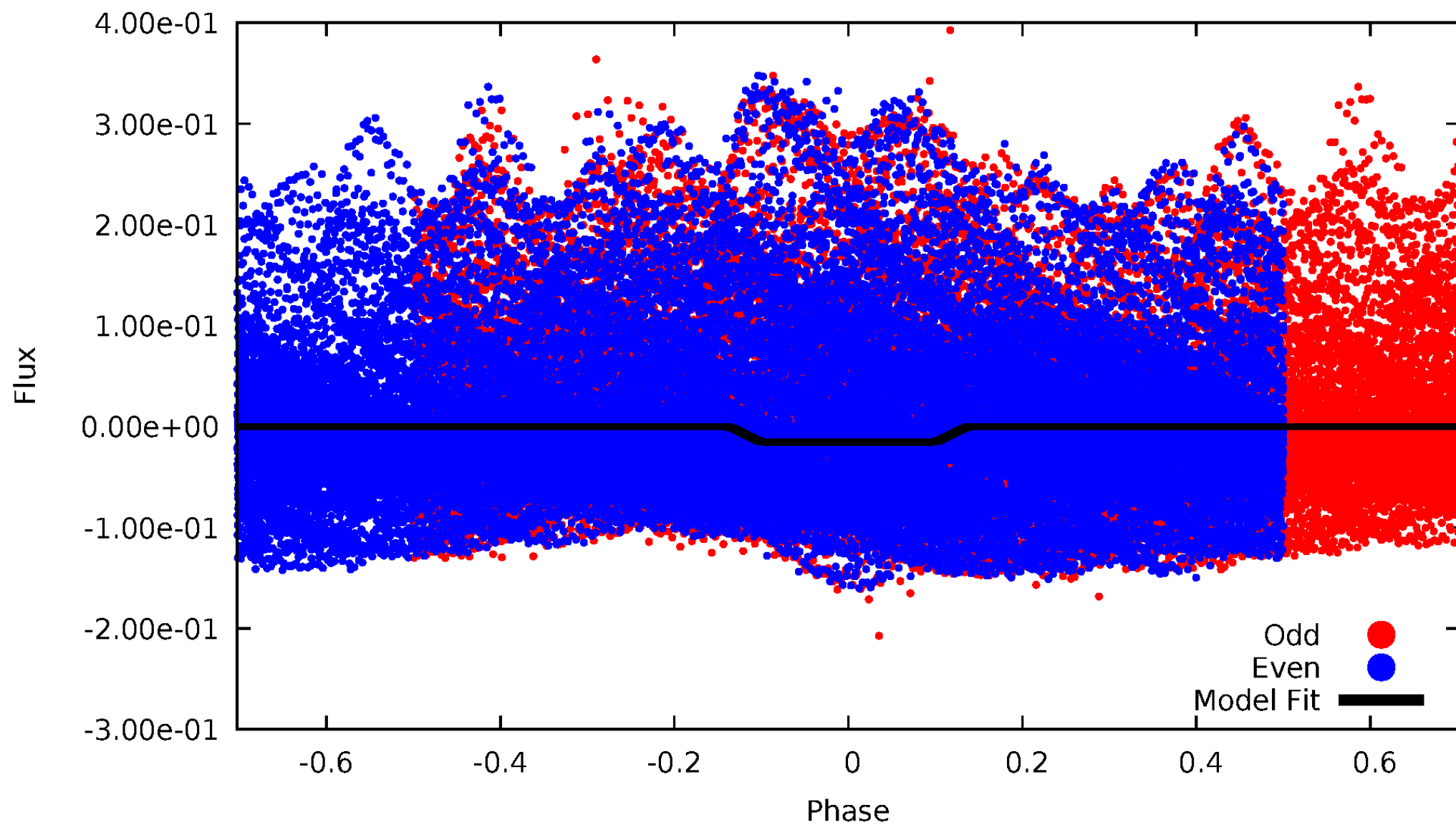
# DV Odd/Even

TCE 007198925-01



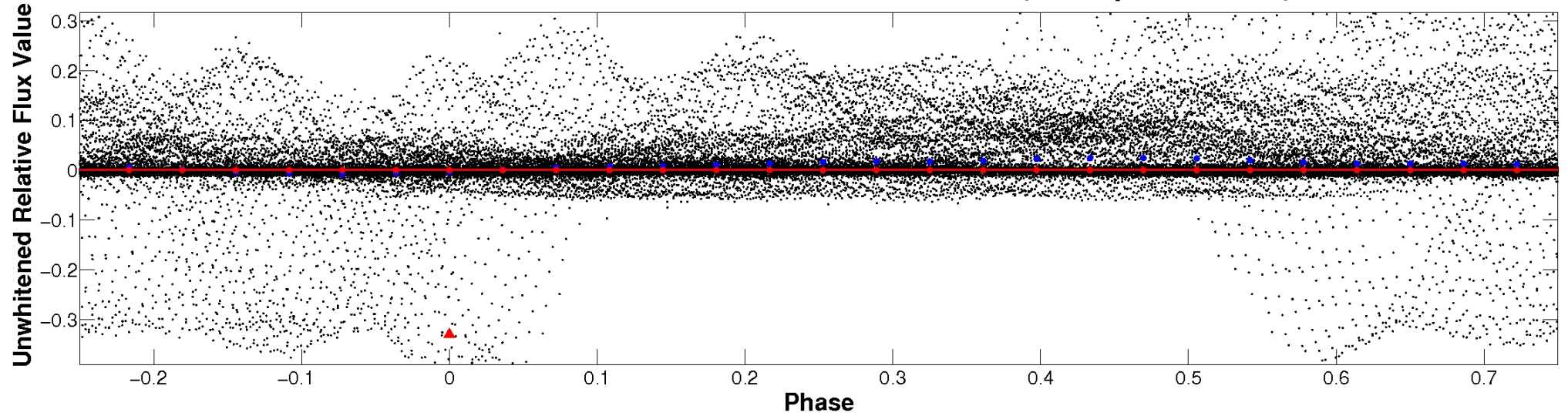
# ALT Odd/Even

TCE 007198925-01

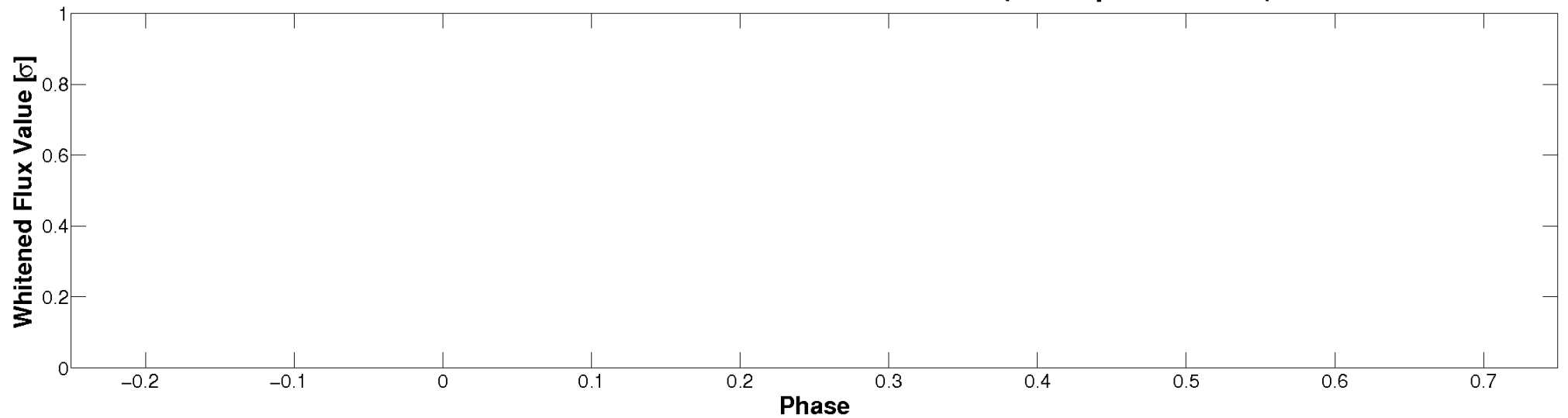


# Non-Whitened Vs. Whitened Light Curve

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



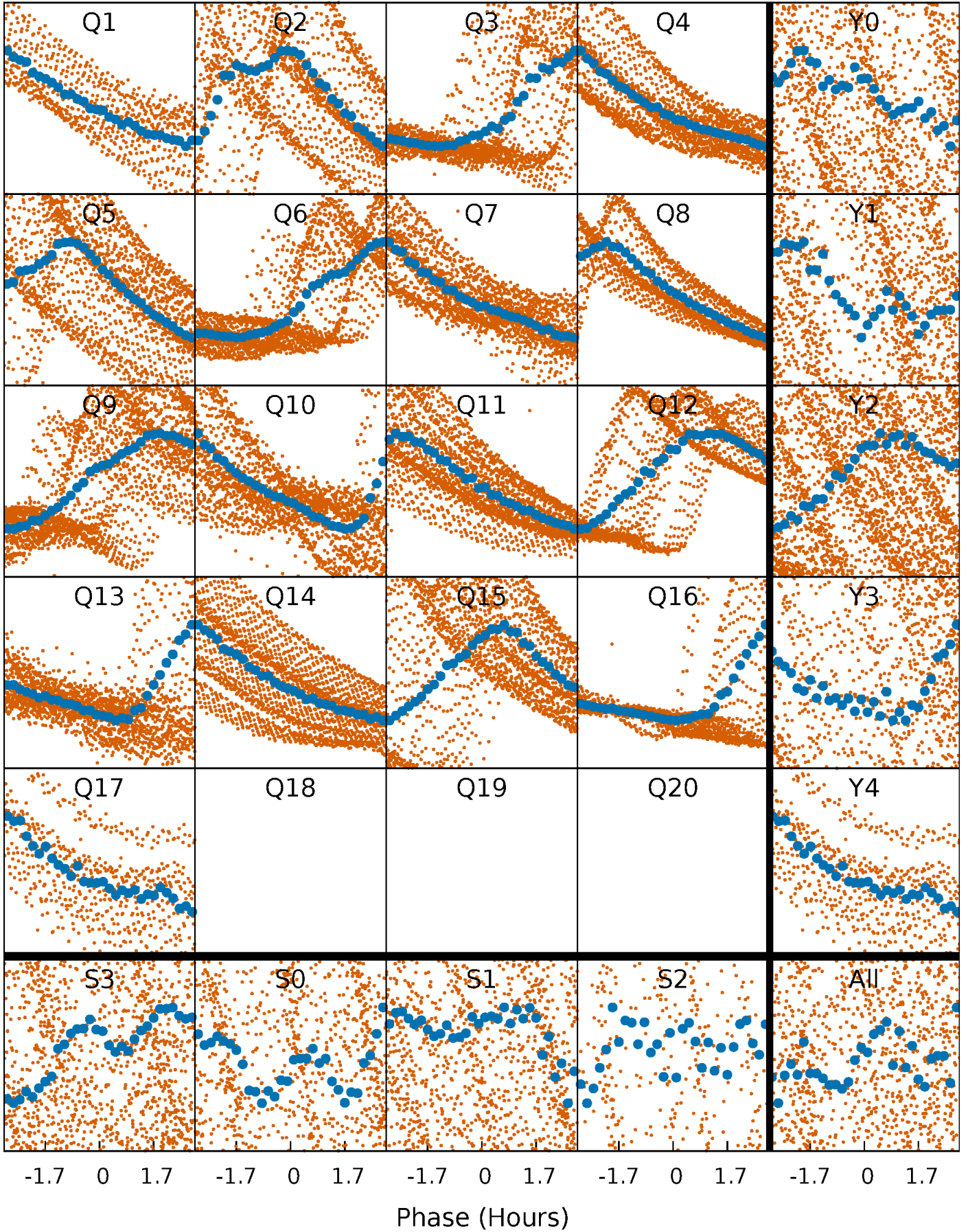
**Planet 1 : Phased Whitened Flux Time Series (TPS Epoch/Period)**





# PDC Quarter-Phased Transit Curves

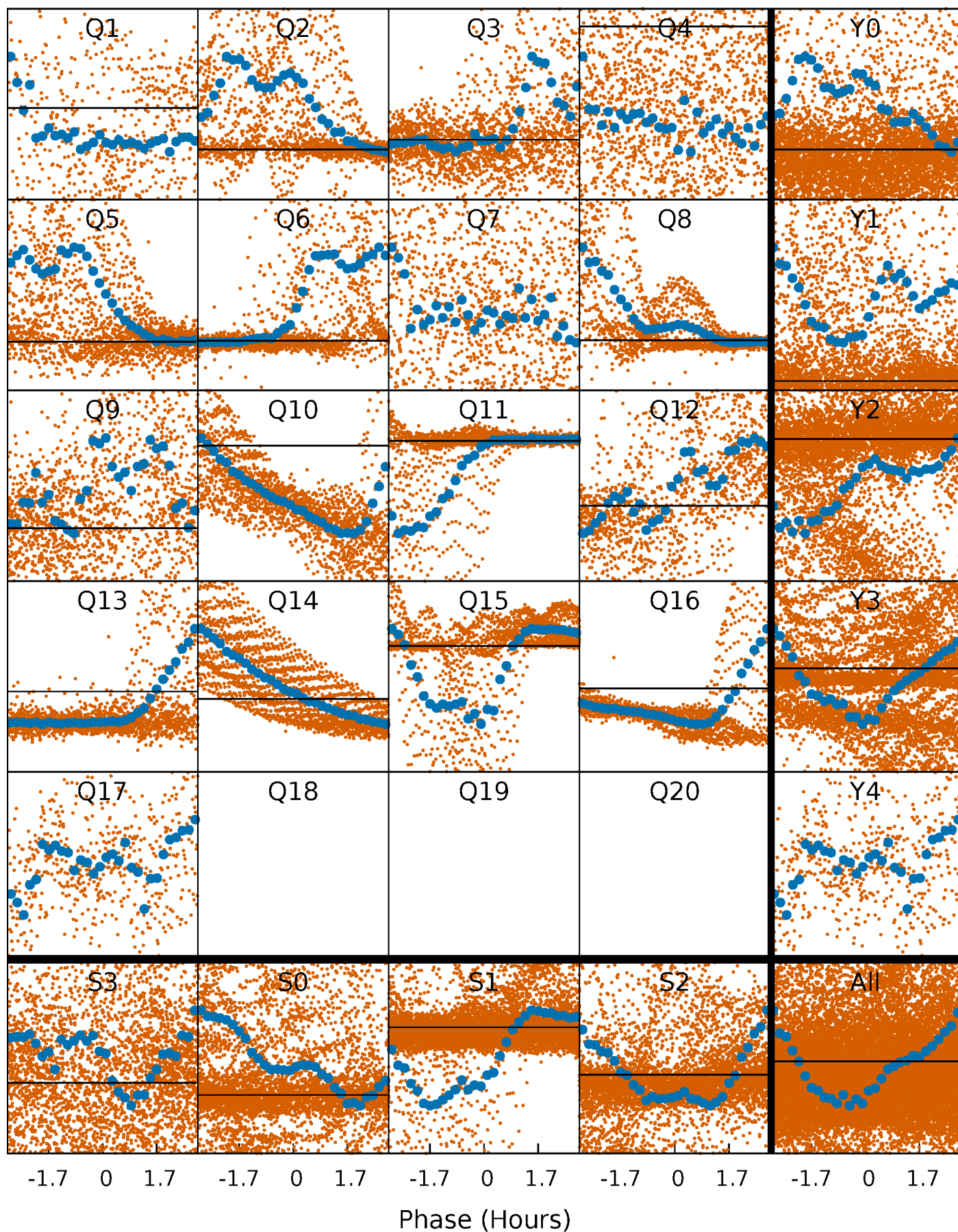
TCE 007198925-01   P= 0.565727 Days    $T_0=131.998494$  (BKJD)





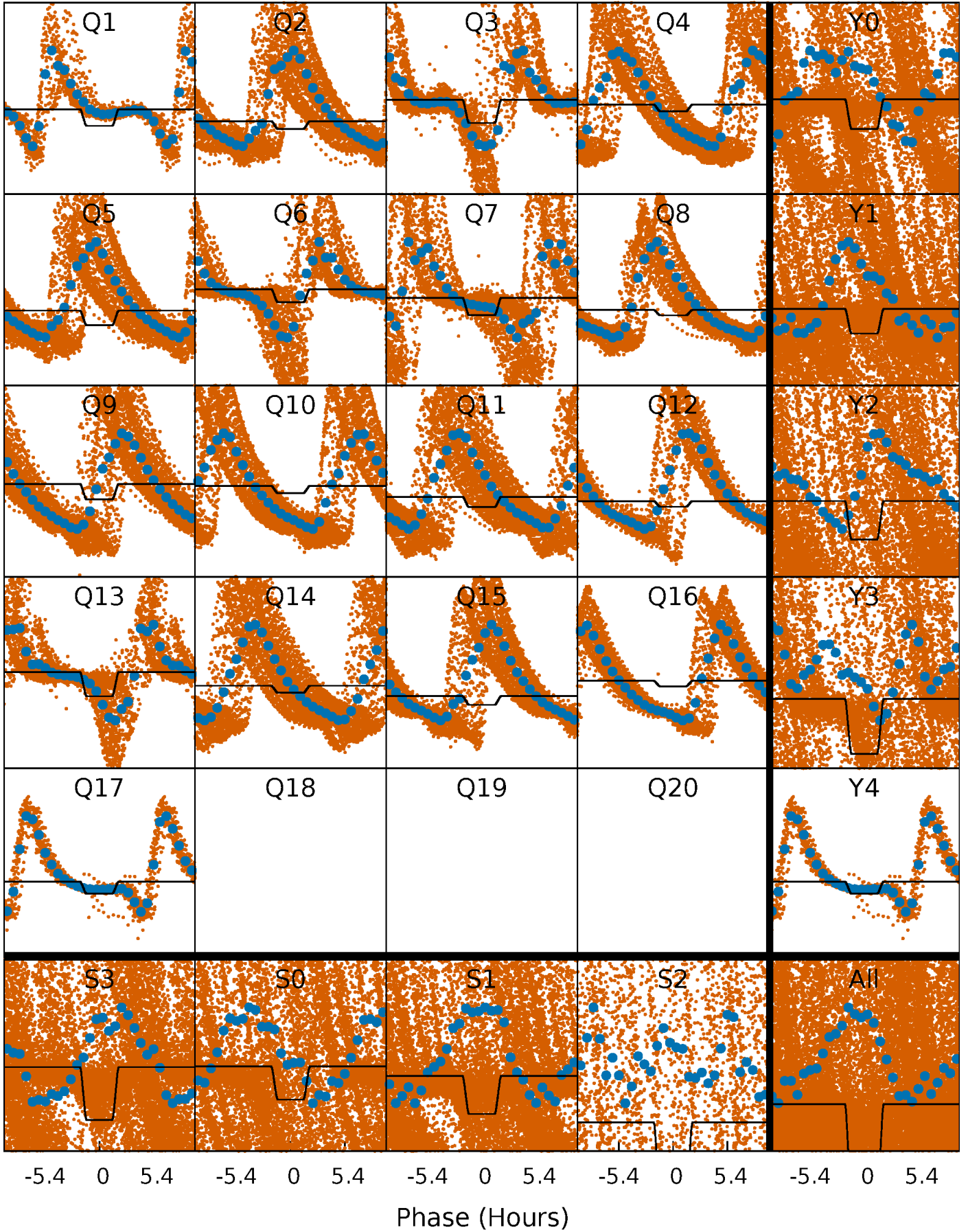
# DV Quarter-Phased Transit Curves

TCE 007198925-01   P= 0.565727 Days    $T_0=131.998494$  (BKJD)



# Alt. Detrend Quarter-Phased Transit Curves

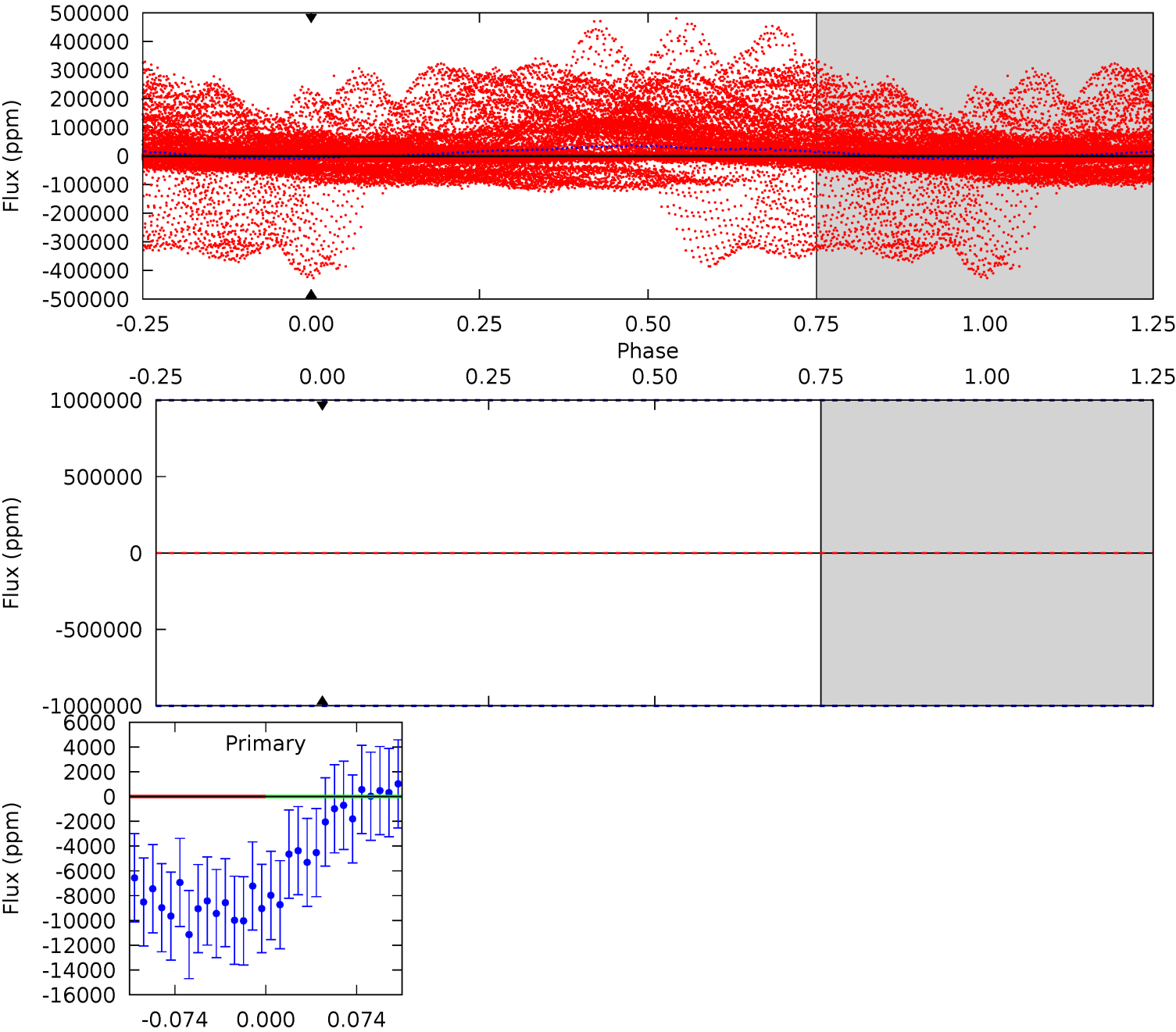
TCE 007198925-01 P= 0.565727 Days  $T_0=131.980635$  (BKJD)



# DV Model-Shift Uniqueness Test

007198925-01, P = 0.565727 Days, E = 131.432767 Days

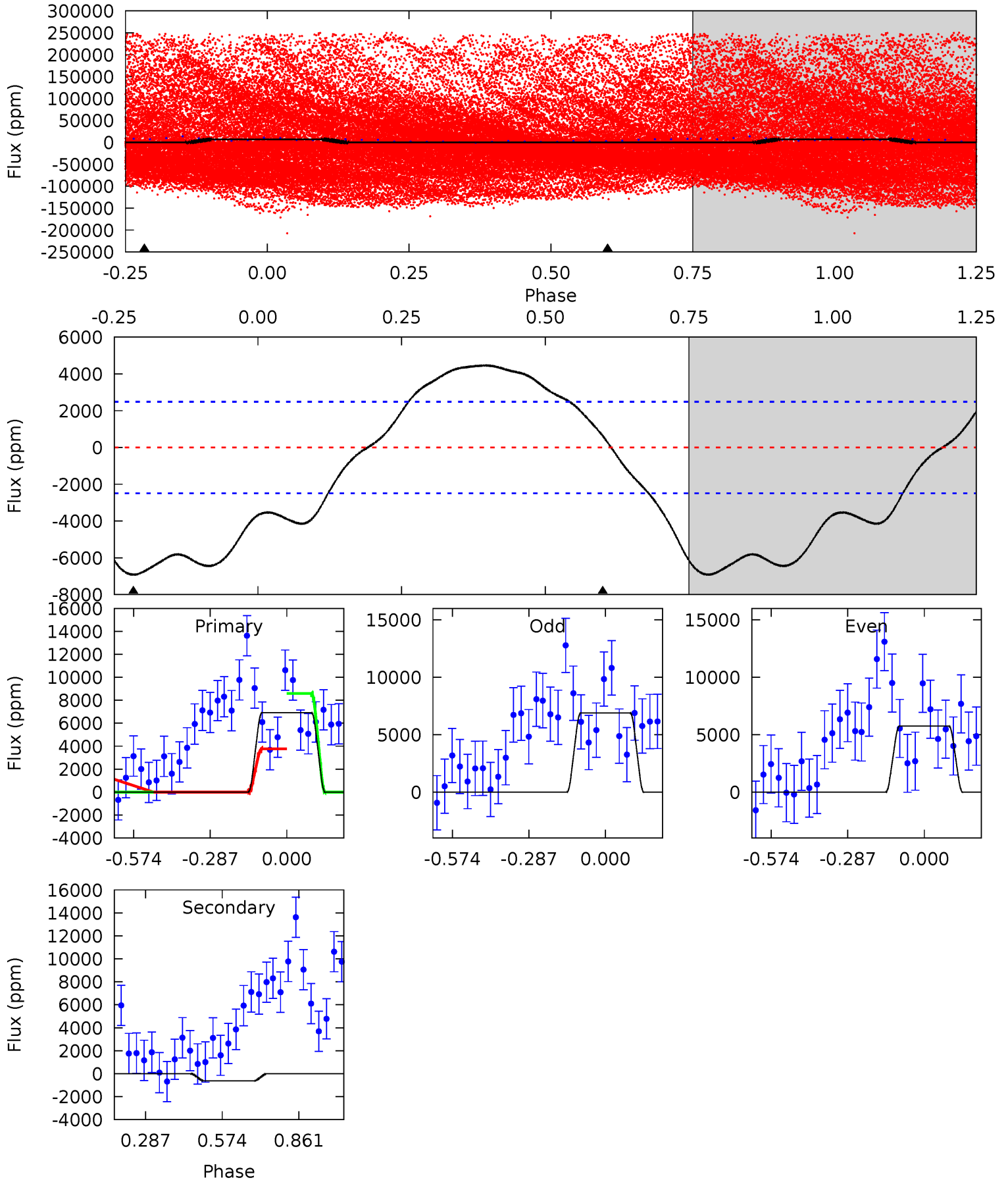
Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
0	0	0	0	1.00	1.00	1.00	0	0	0	0	0	0	0	0



# Alt Model-Shift Uniqueness Test

007198925-01, P = 0.565727 Days, E = 131.414908 Days

Pri	Sec	Ter	Pos	FA <sub>1</sub>	FA <sub>2</sub>	F <sub>Red</sub>	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
12.1	-1.10	0	0	4.34	1.06	4.32	12.1	12.1	-1.10	-1.10	1.04	-2.89	0.39	4.76





### Stellar Parameters For KIC 007198925

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	$R (R_{\odot})$	$M(M_{\odot})$	$p_{\star} (\text{g}\cdot\text{cm}^{-3})$
	$4300^{+151}_{-166}$	$4.628^{+0.042}_{-0.024}$	$0.060^{+0.250}_{-0.300}$	$0.657^{+0.041}_{-0.055}$	$0.669^{+0.051}_{-0.062}$	$3.316^{+0.655}_{-0.376}$
	+4%/-4%	+1%/-1%	+417%/-500%	+6%/-8%	+8%/-9%	+20%/-11%
Source	PHO54	PHO54	PHO54	DSEP		

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

### Secondary Eclipse Parameters for KIC 007198925-01 / KOI

Detrend	Depth (ppm)	$R_p (R_{\oplus})$	$T_{max} (K)$	$T_{obs} (K)$	$A_{obs}$
DV	$0 \pm 1000000$	$26.30^{+7.35}_{-7.70}$	$1980^{+70}_{-90}$	$-2524^{+6710}_{-1520}$	$-0.144^{+13.095}_{-10.582}$
Alt.	$628 \pm 573$	$9.88^{+7.24}_{-6.12}$	$1984^{+74}_{-83}$	$-2672^{+255}_{-690}$	$-0.371^{+0.353}_{-2.767}$

$T_{max}$  = 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  $A_{obs} \gg 1.0$

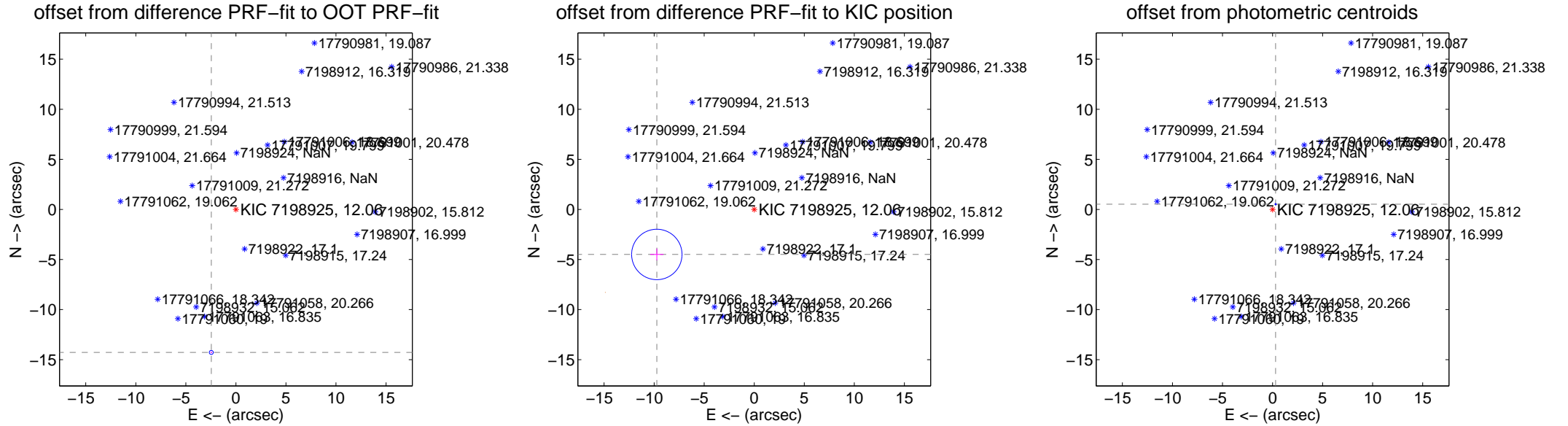
## DV Centroid Data

Supplemental centroid analysis for 007198925-01. Kepler magnitude: 12.06. Transit SNR -1.00

There are 0 quarters with good PRF difference image offsets

The OOT PRF centroid is offset from the target star catalog position by about 13.80 arcsec so the offset from difference PRF-fit to OOT-fit may be invalid.

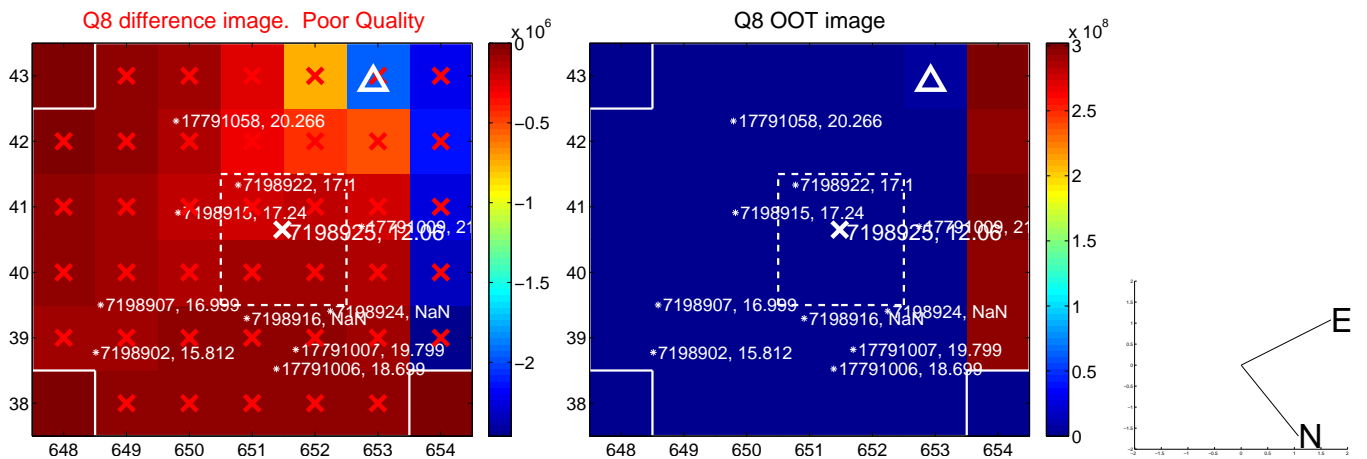
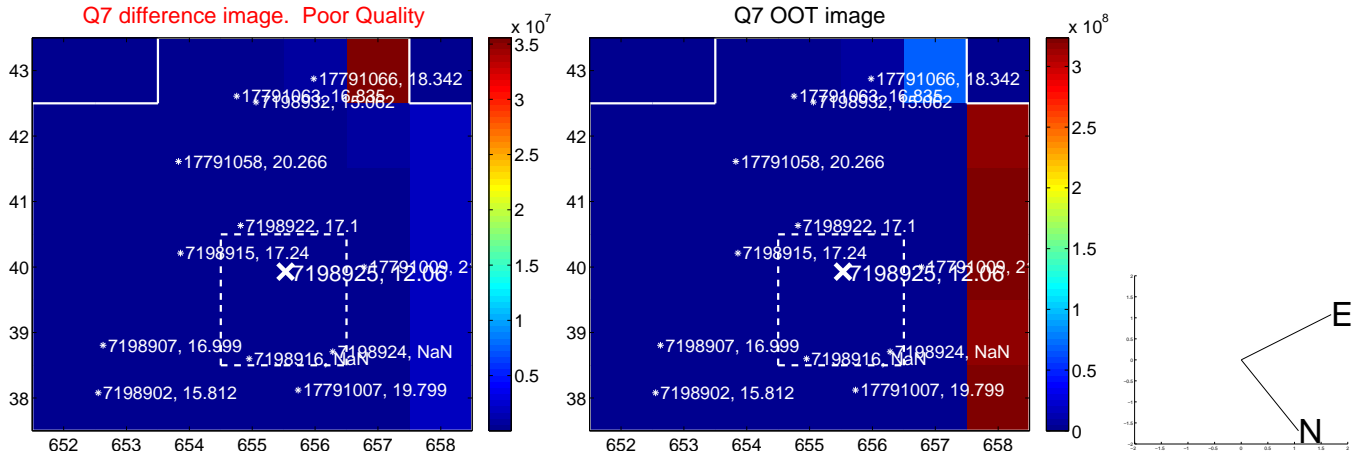
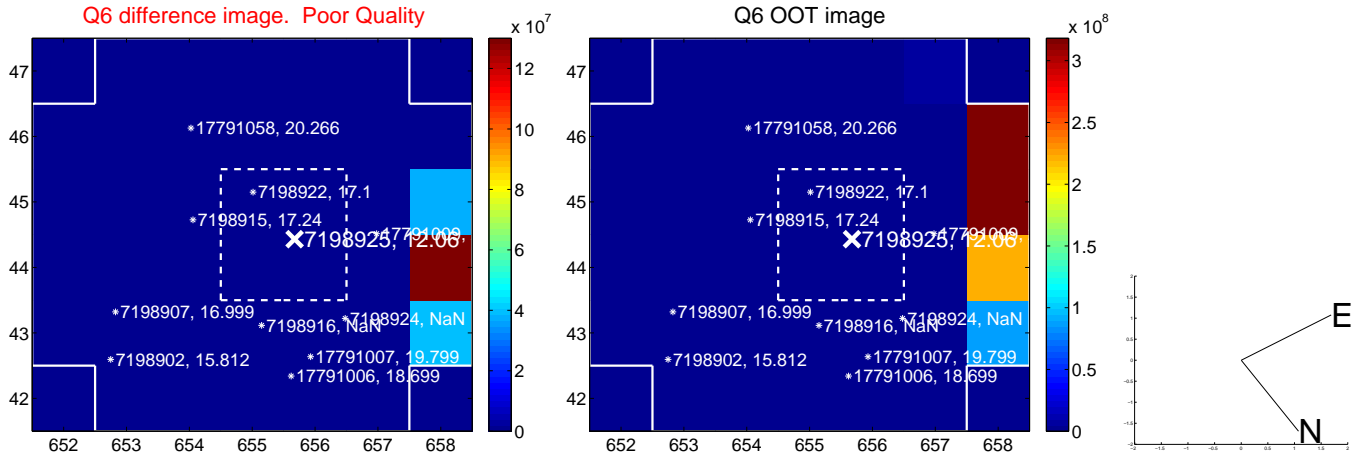
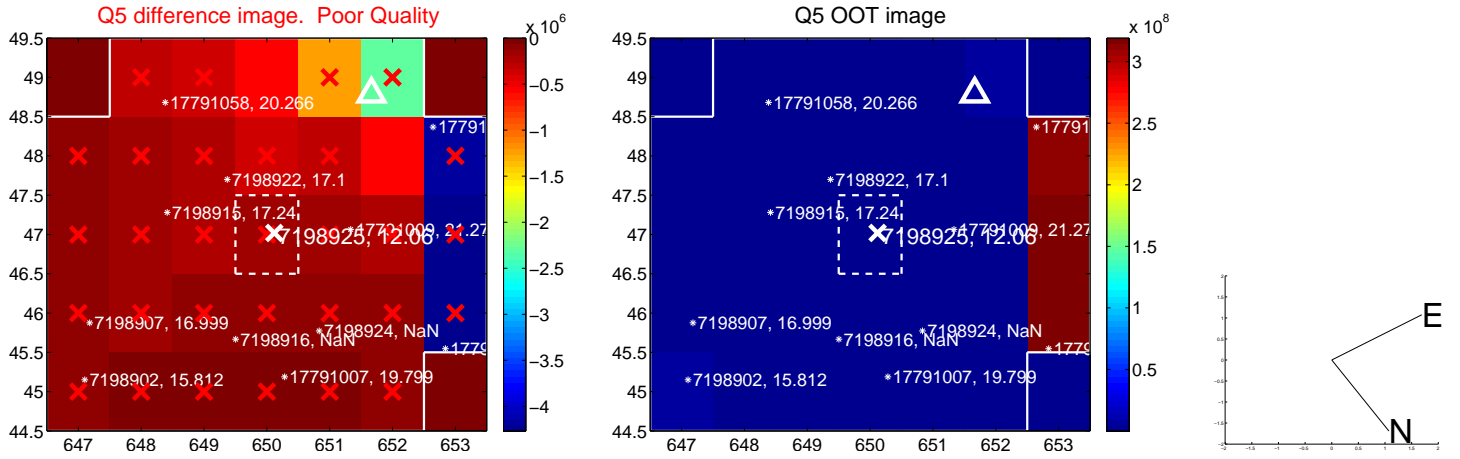
	Distance in arcsec	Distance / $\sigma$	$\Delta$ RA	$\Delta$ Dec
PRF-fit source offset from OOT	$14.490 \pm 0.067$	217.24	$2.461 \pm 0.067$	$-14.279 \pm 0.067$
PRF-fit source offset from KIC position	$10.721 \pm 0.839$	12.77	$9.733 \pm 0.663$	$-4.496 \pm 0.591$
photometric centroid source offset	$0.60 \pm 0.02$	25.86	$-0.31 \pm 0.02$	$0.52 \pm 0.03$



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- $\sigma$  uncertainty. Blue circle: three- $\sigma$ . Red \*: target star. Blue \*: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

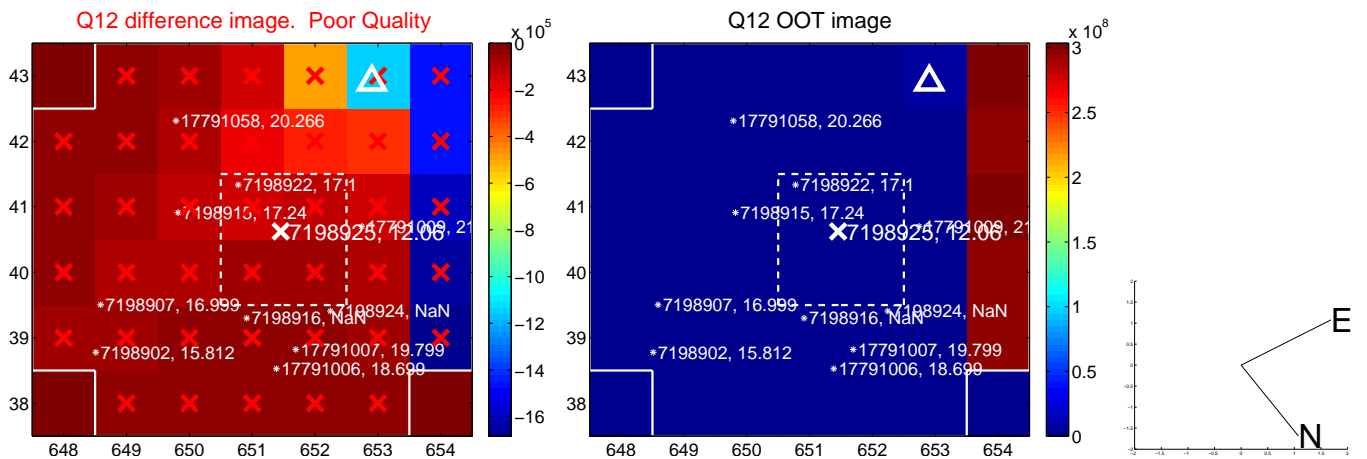
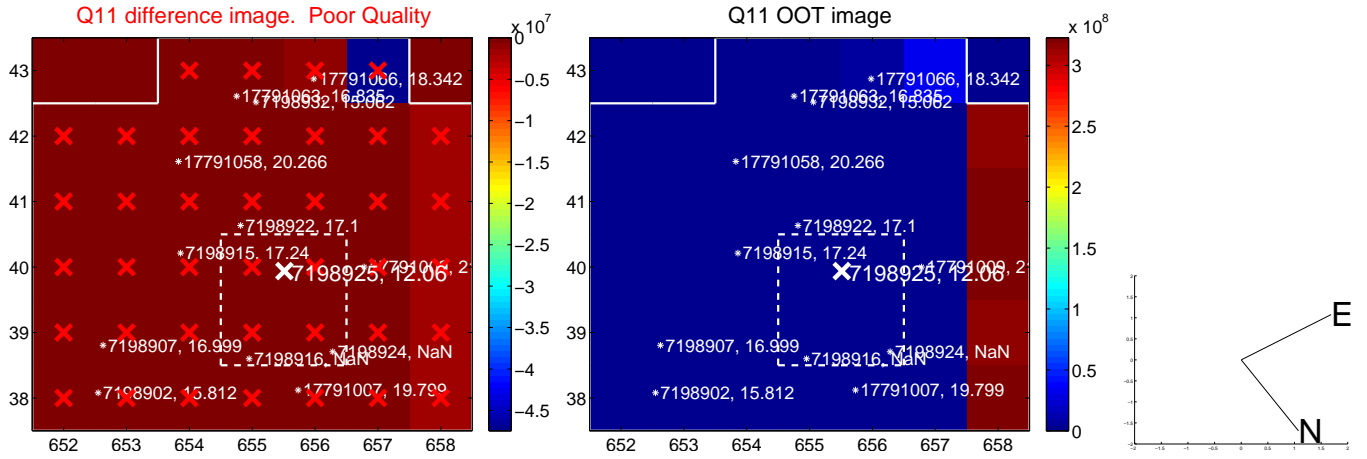
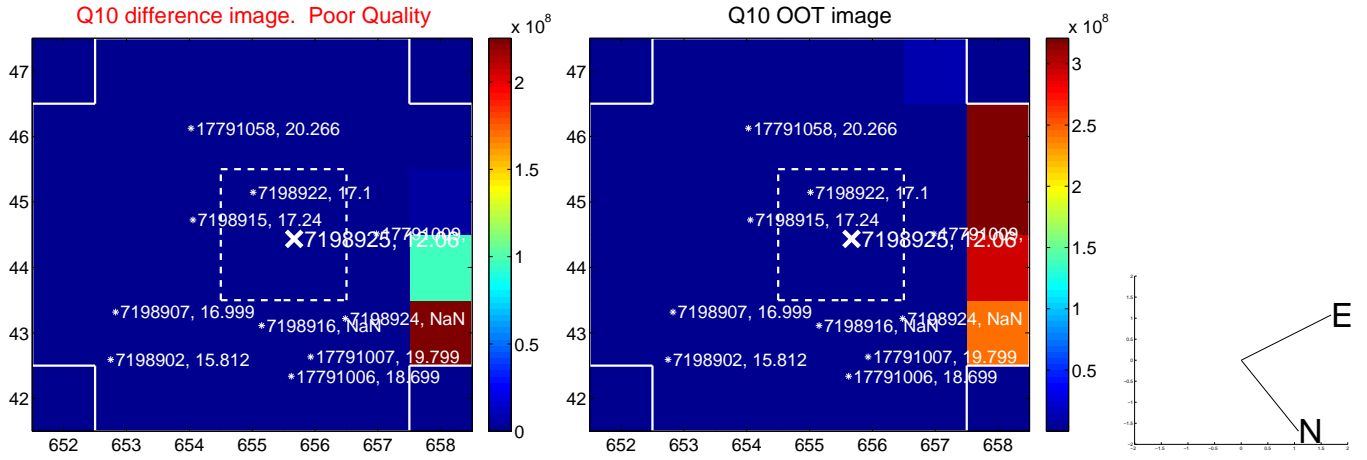
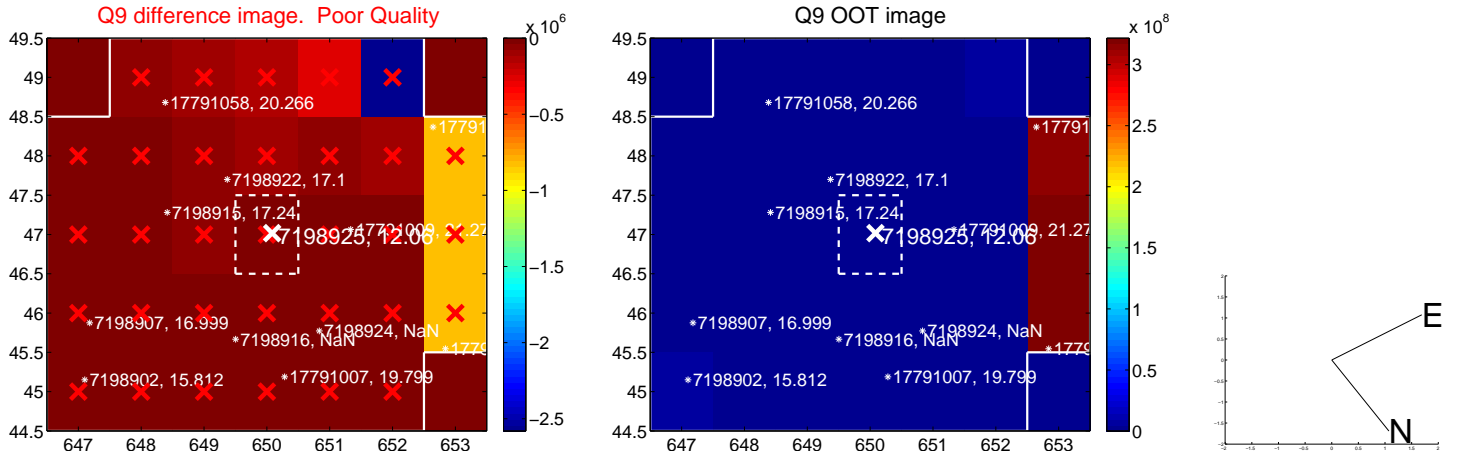


white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.

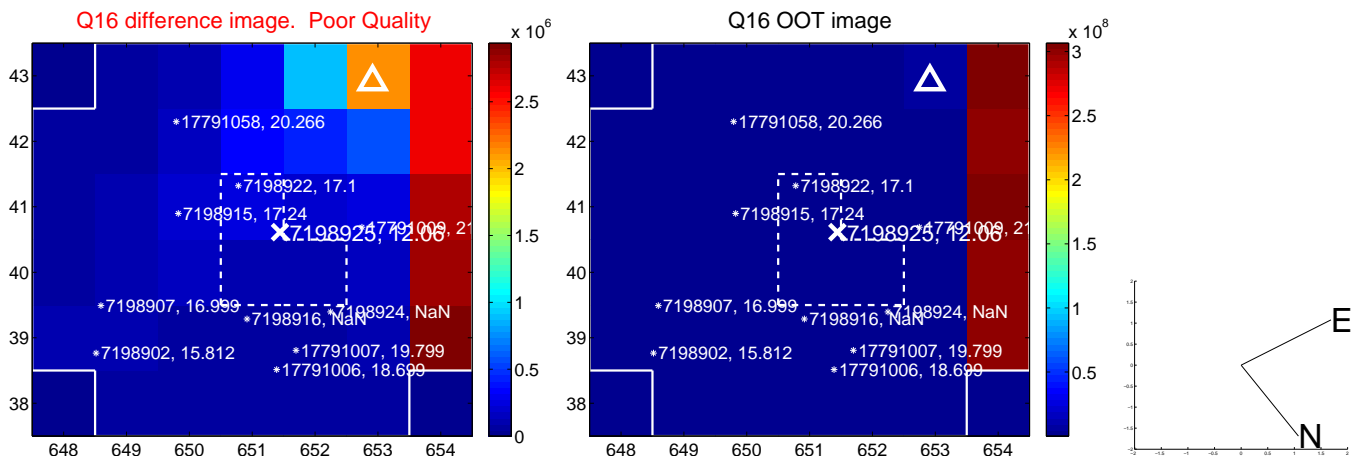
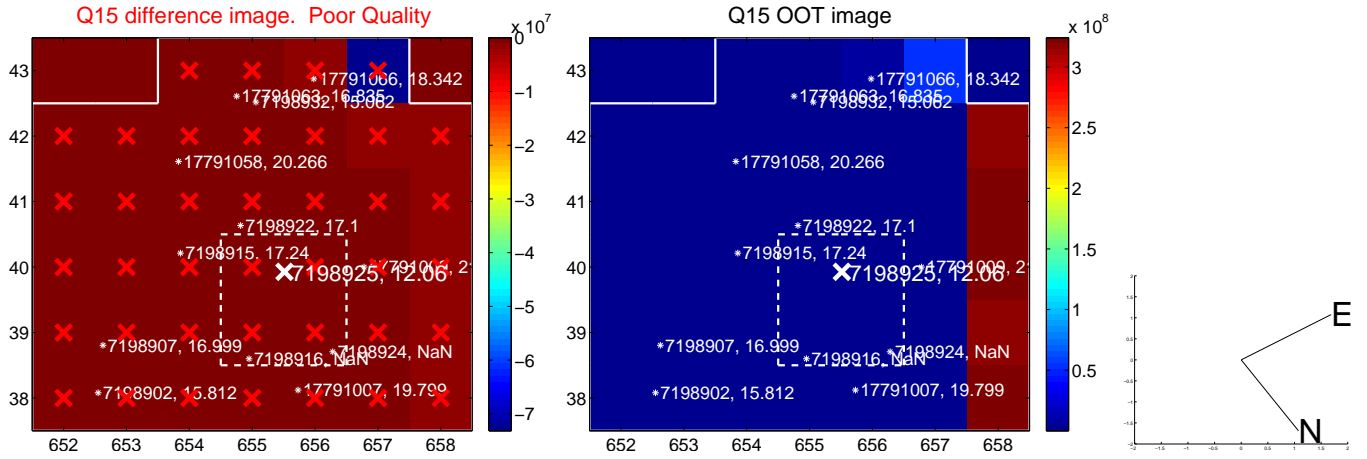
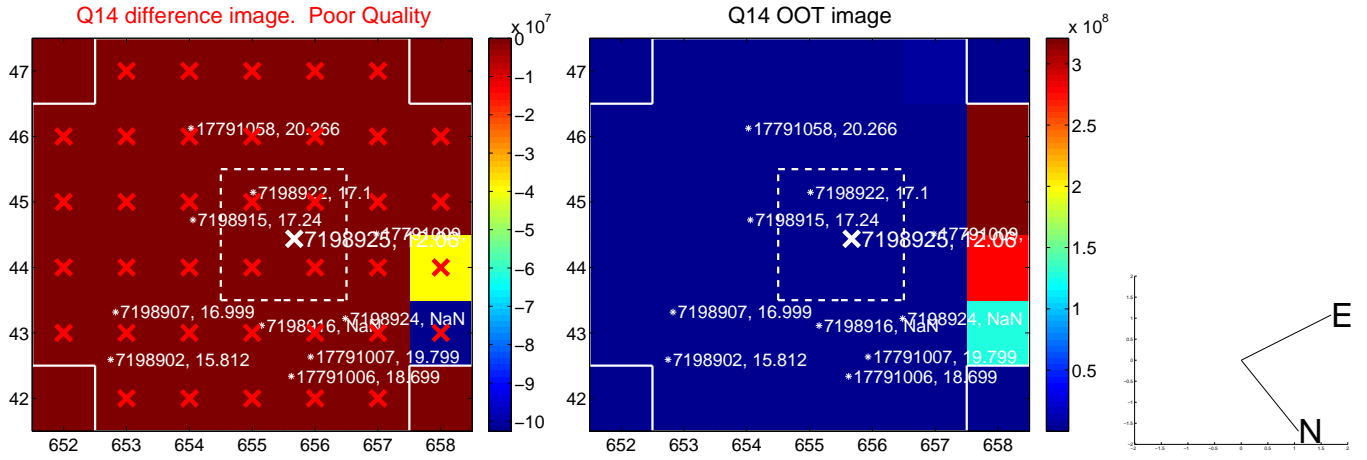
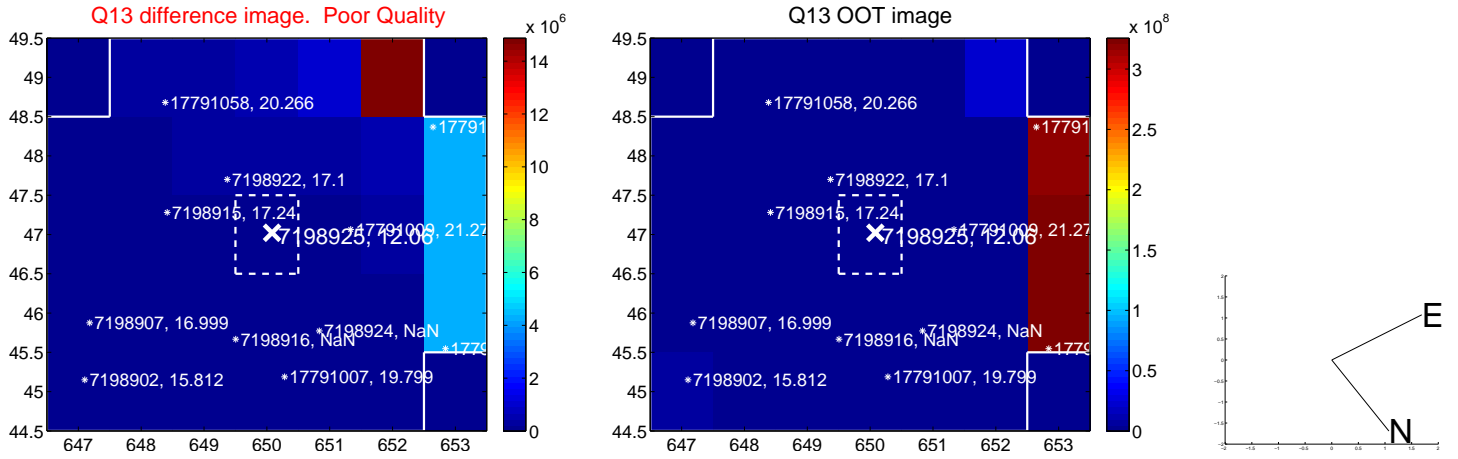




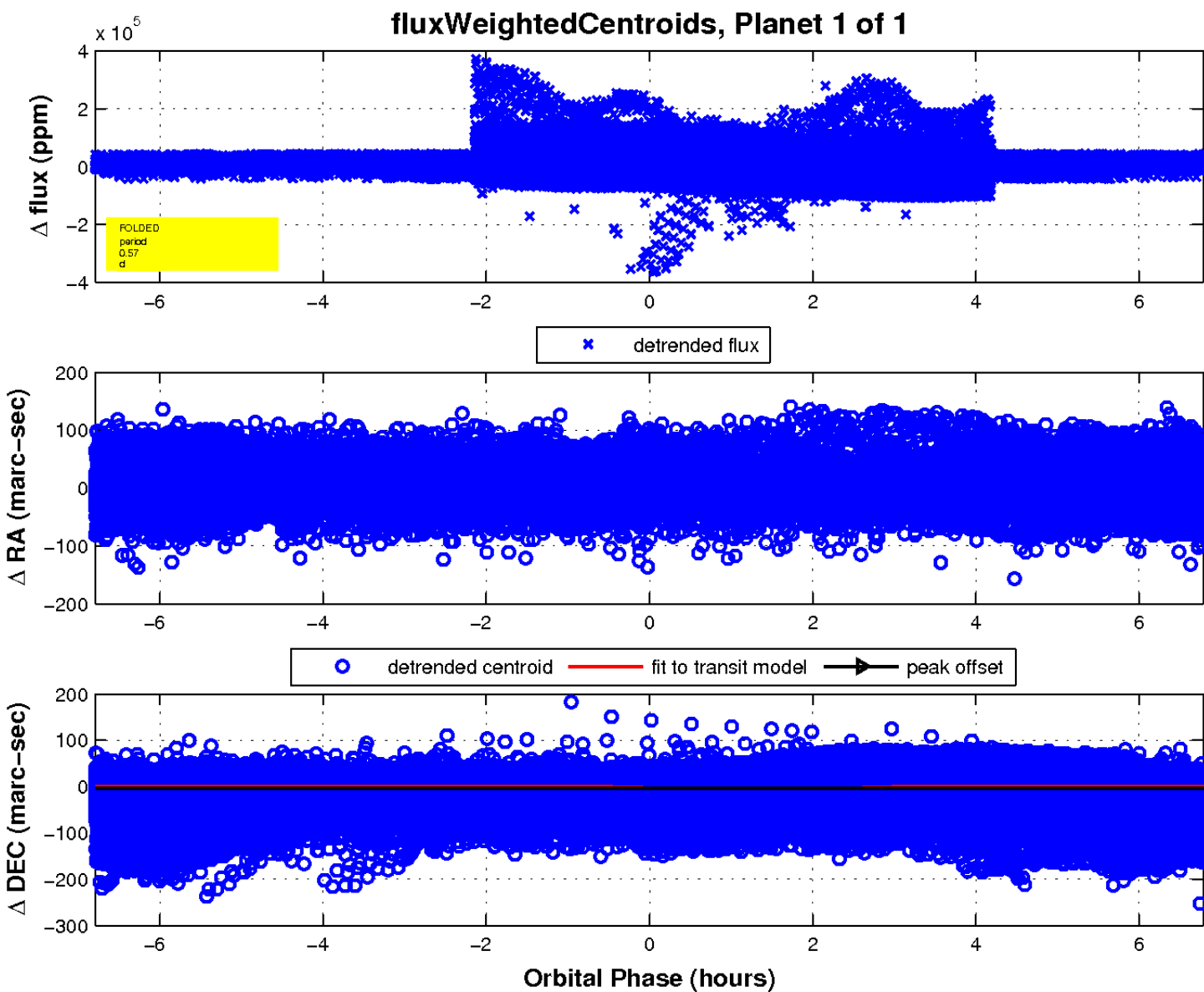
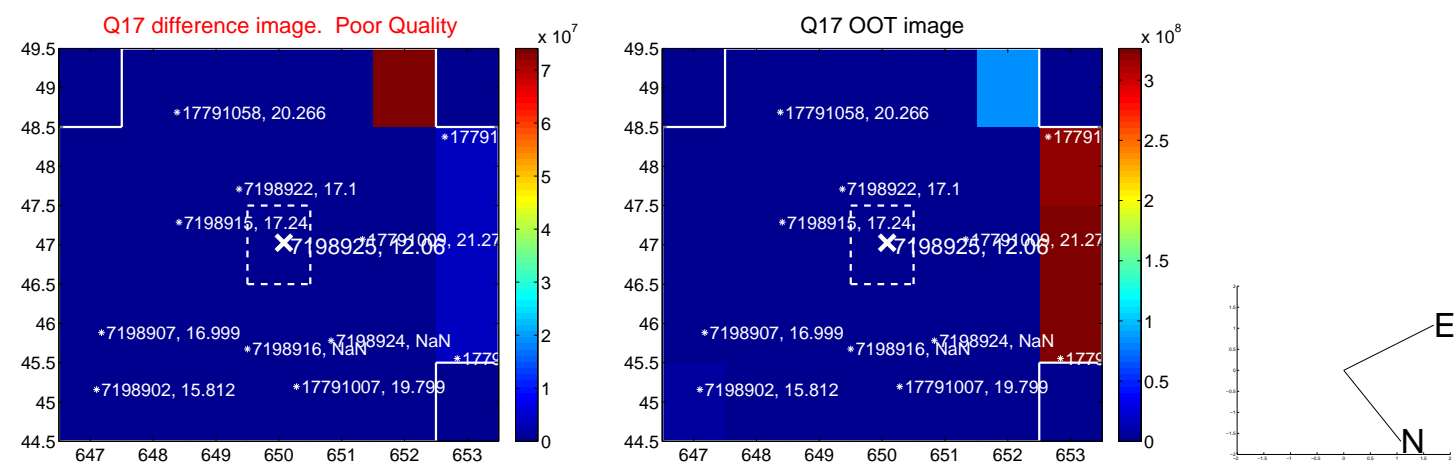
white  $\times$ : KIC target position;  $+$ : OOT centroid;  $\triangle$ : difference centroid. red  $\times$ : large negative pixel value.



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UKIRT Image

