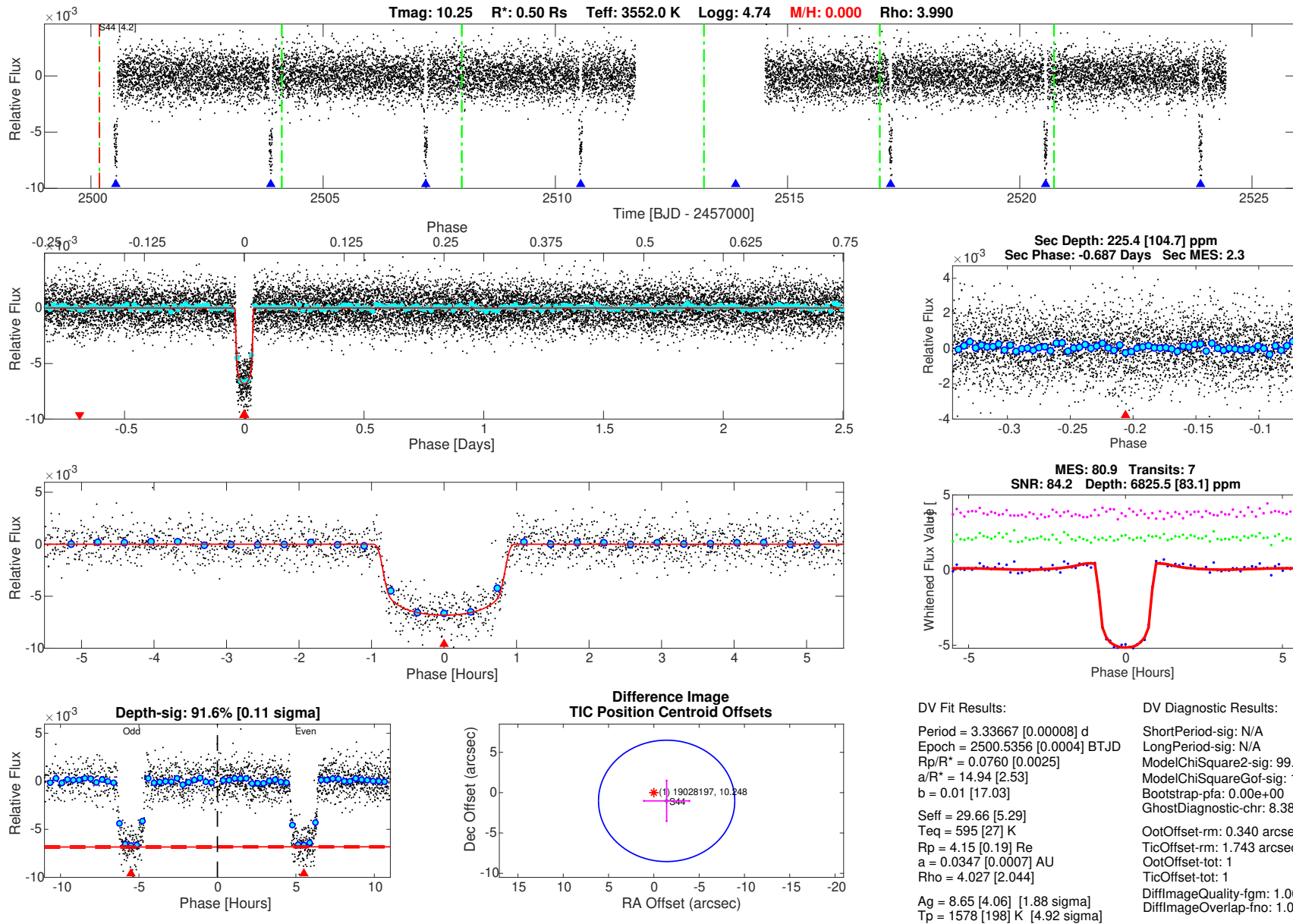


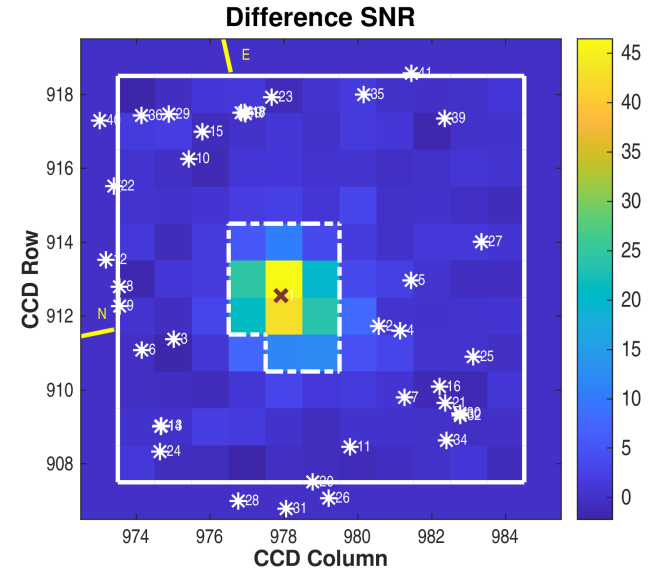
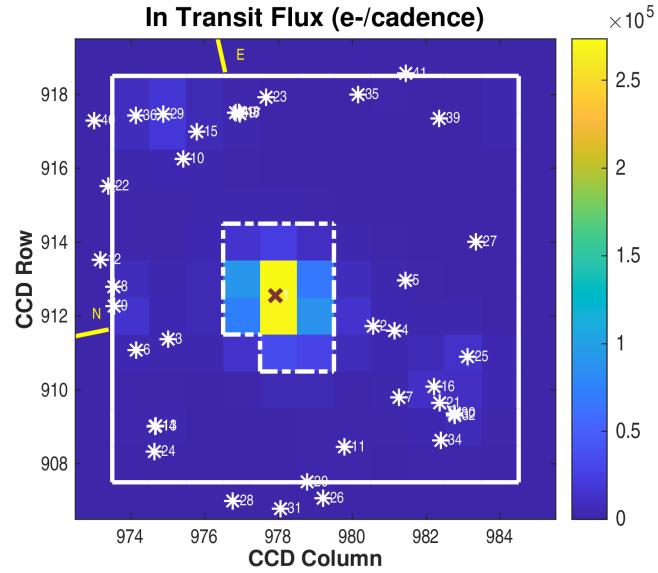
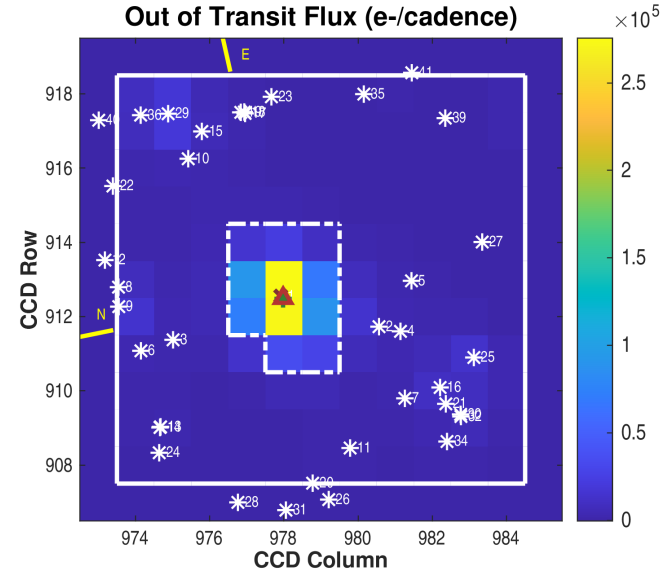
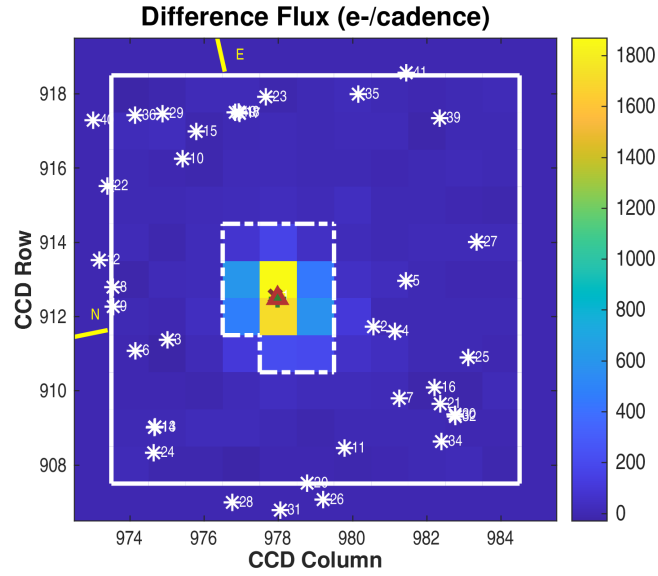
TIC: 19028197 Candidate: 1 of 1 Period: 3.337 d

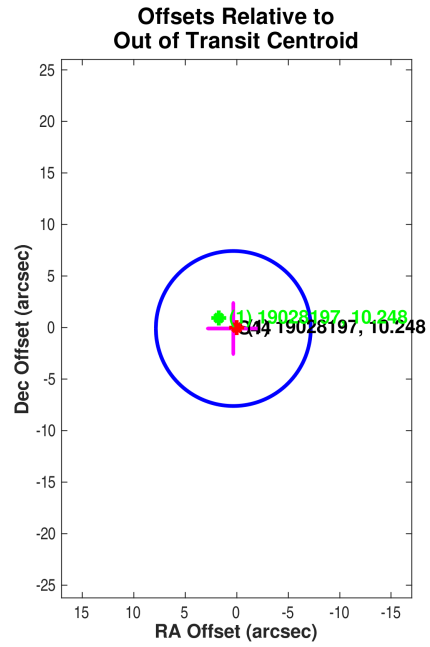


Software Revision: spoc-5.0.49-20211106 -- Cadence Type: TARGET (2-min) -- Date Generated: 13-Nov-2021 20:41:16 Z

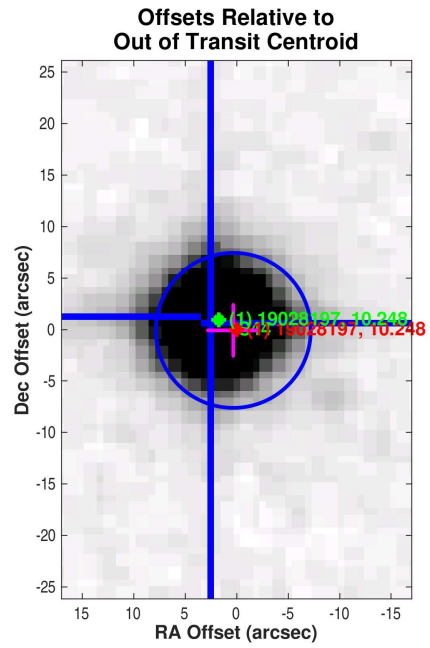
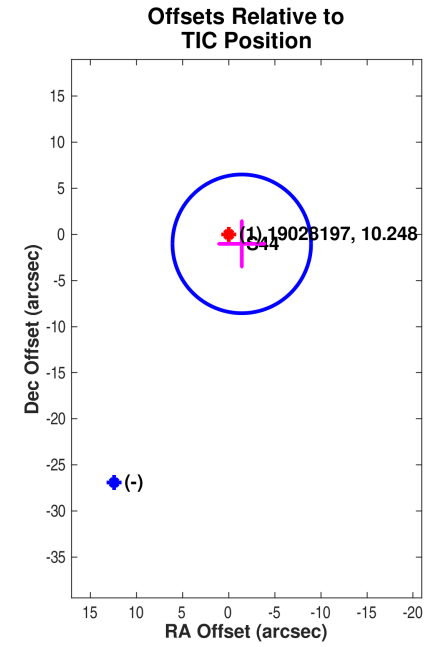
This Data Validation Report Summary was produced in the TESS Science Processing Operations Center Pipeline at NASA Ames Research Center

Planet Candidate 1 / Sector 44 / Target Pixel Table 328

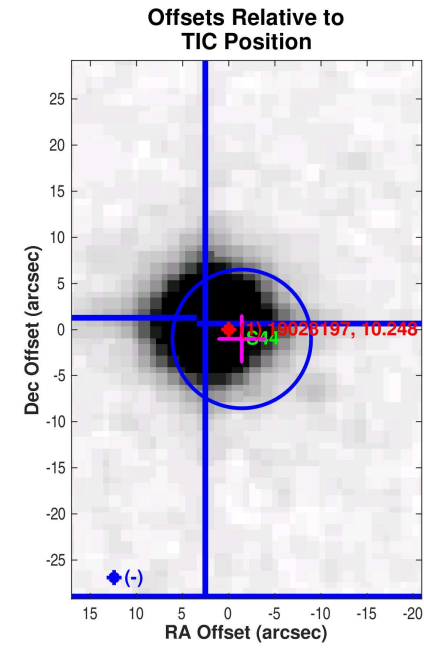


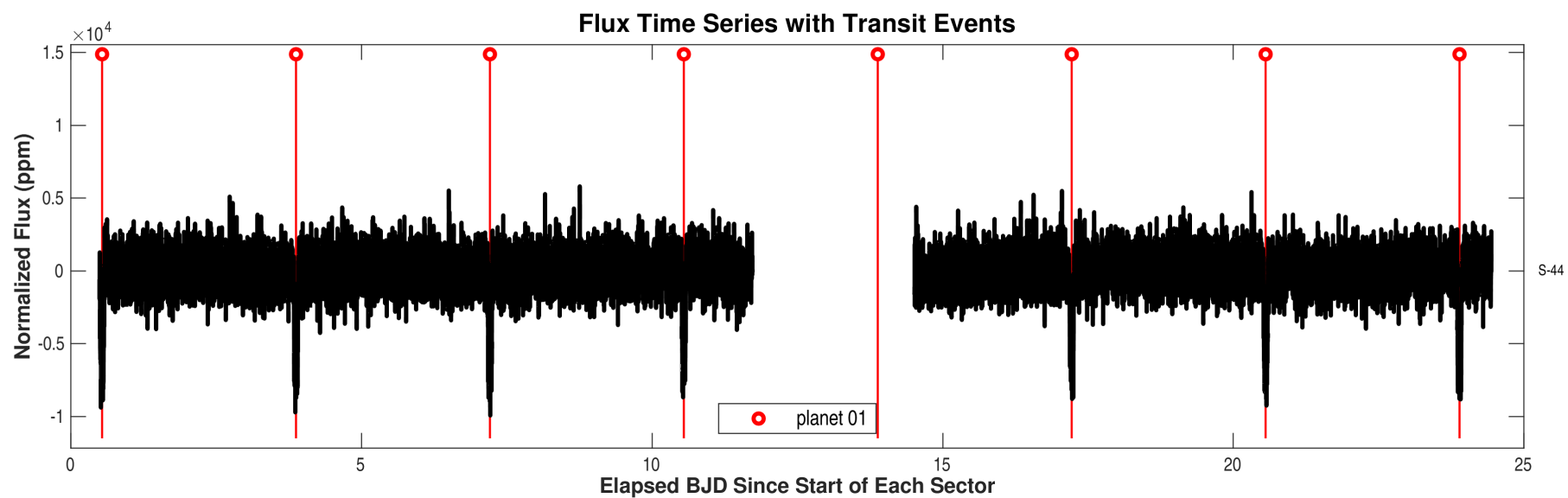
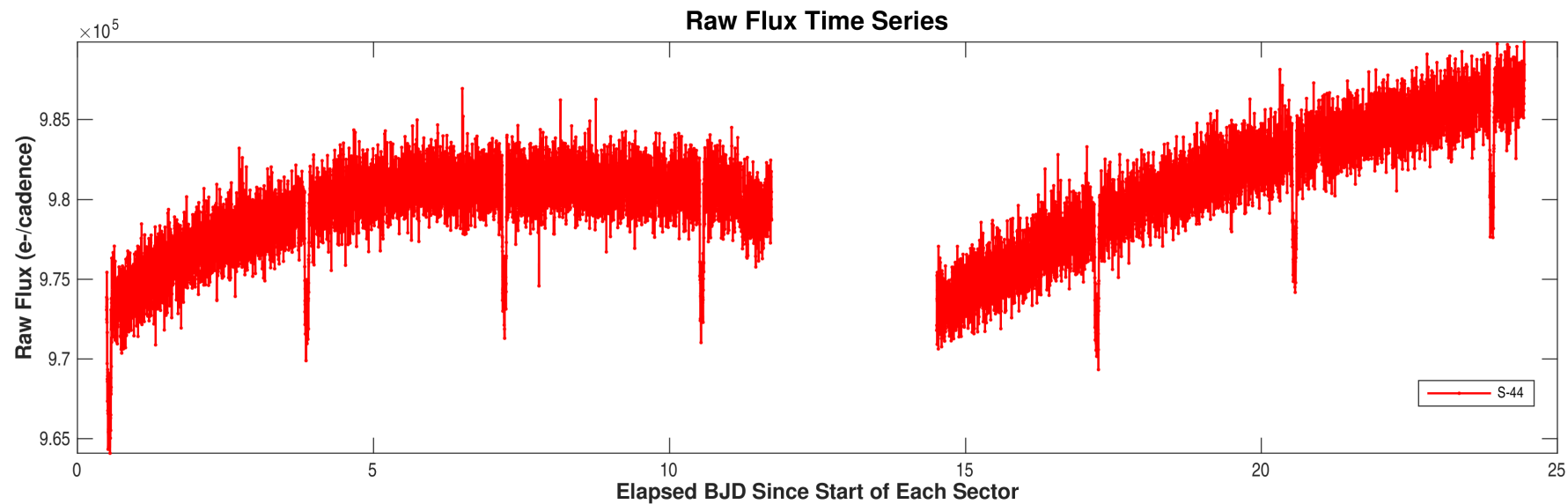


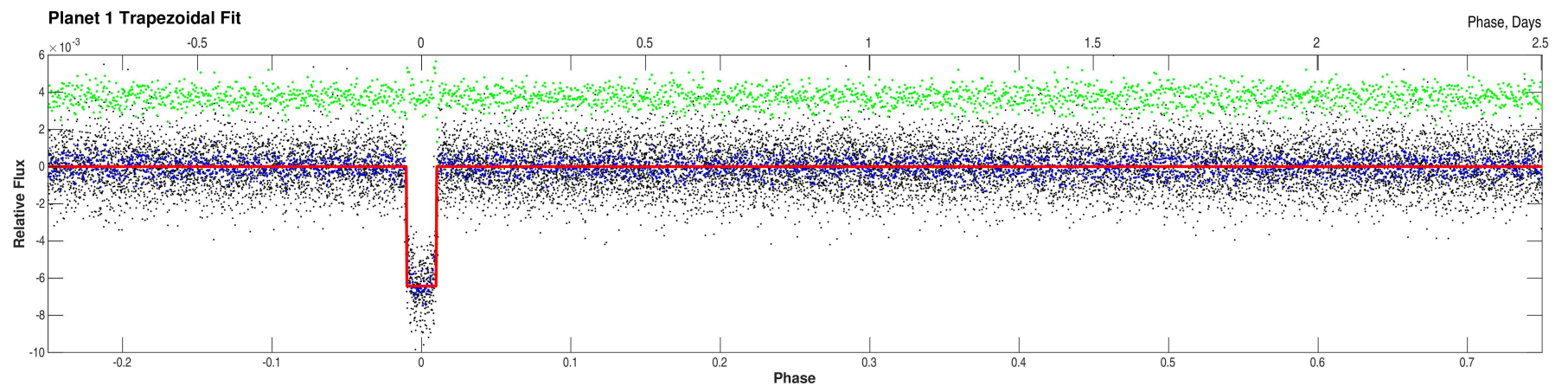
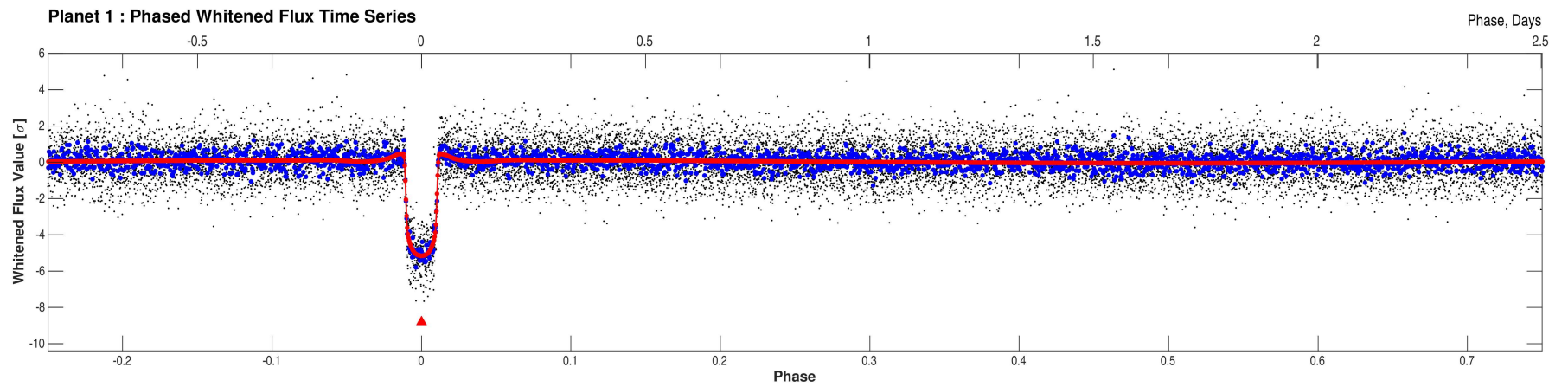
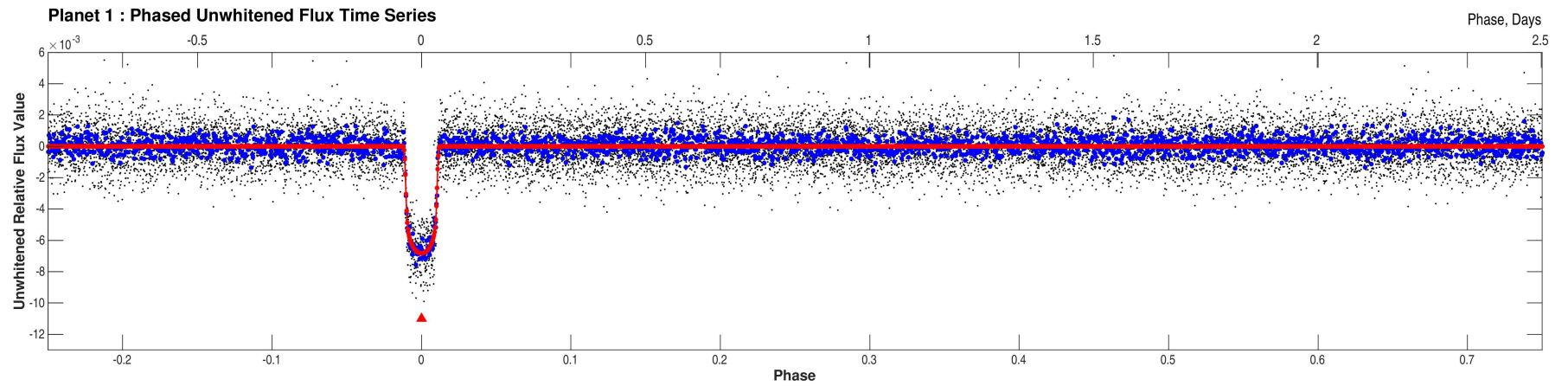
Planet Candidate 1



Planet Candidate 1

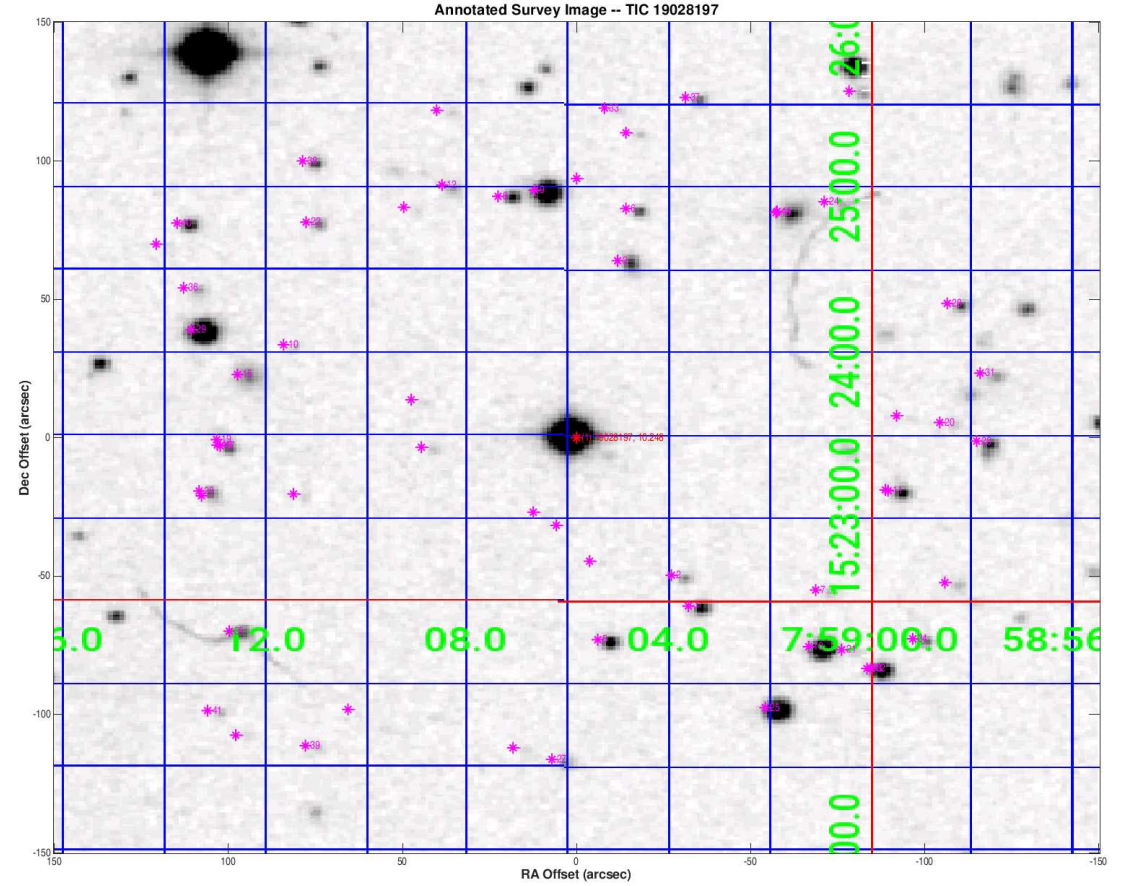






Stellar Distance Table

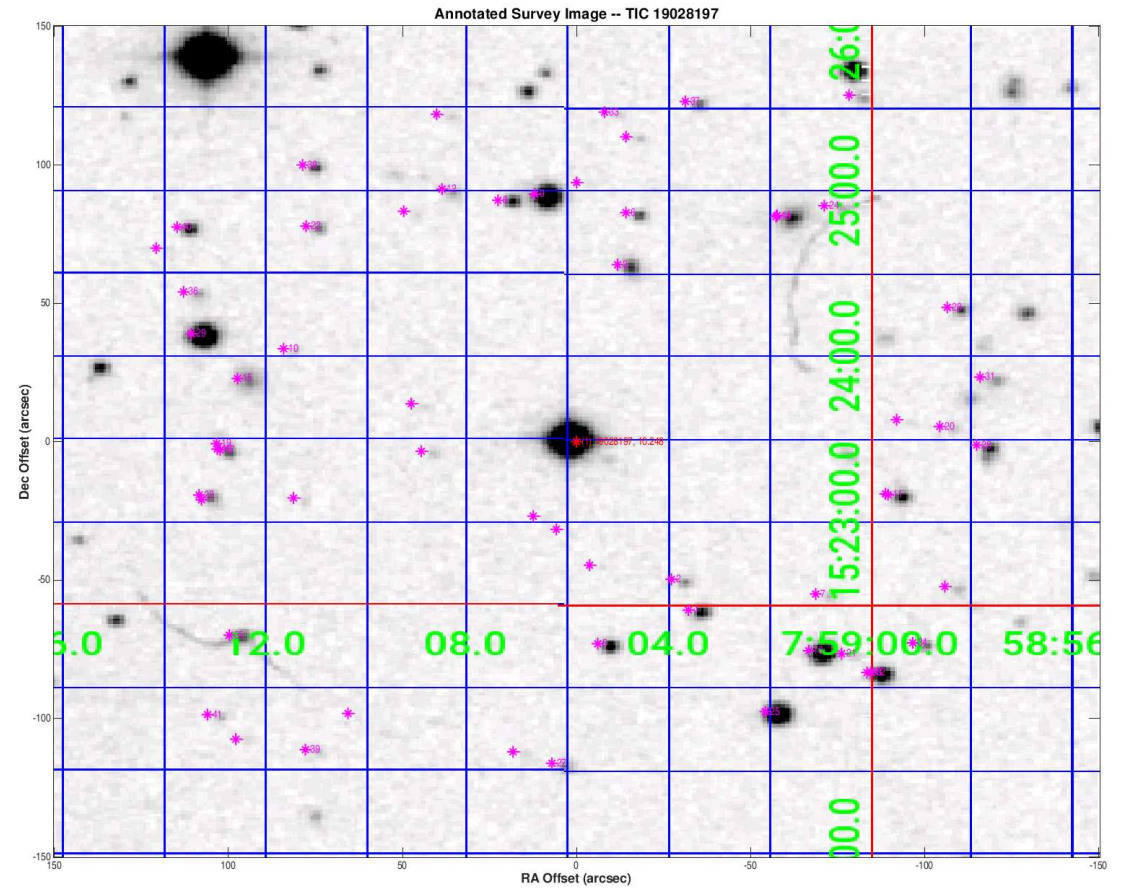
Index	TIC ID	TESS Mag	Distance (arcsec)
1	0000000019028197	10.25	0.00
2	0000000740016752	18.16	56.69
3	0000000019028210	19.10	65.01
4	0000000019028190	16.53	68.78
5	0000000019028188	16.40	73.23
6	0000000019028216	17.70	83.97
7	0000000740016780	18.28	88.01
8	0000000019028219	16.90	90.07
9	0000000019028220	13.51	90.23
10	0000000740016763	19.11	90.60
11	0000000019028193	16.55	91.49
12	0000000019028221	17.91	99.11
13	0000010000228692	16.78	99.53
14	0000000019028215	18.28	100.00
15	0000000019030543	17.11	100.02
16	0000000019028187	14.40	100.75
17	0000000019028194	16.79	102.40
18	0000010000228729	16.64	103.23
19	0000000740016758	18.40	103.40
20	0000000740016785	18.73	104.46
21	0000000740016782	18.92	108.01
22	0000000019028214	16.99	110.01
23	0000000740016757	17.68	110.12
24	0000000019028217	18.30	111.04
25	0000000019028184	14.05	111.59
26	0000000019028195	16.33	114.92
27	0000000740016749	18.15	116.40
28	0000000740016790	17.50	117.02
29	0000000019030541	13.26	117.30
30	0000000019028186	15.59	117.94
31	0000000019028202	17.07	118.24
32	0000000740016783	16.81	118.72
33	0000000740016794	19.21	119.31
34	0000000740016779	17.96	120.85
35	0000000740016755	17.70	121.79
36	0000000019028208	18.37	125.18
37	0000000019028224	17.34	126.82
38	0000000019028223	17.61	127.23
39	0000000740016744	18.94	135.80
40	0000000019030534	16.88	138.47



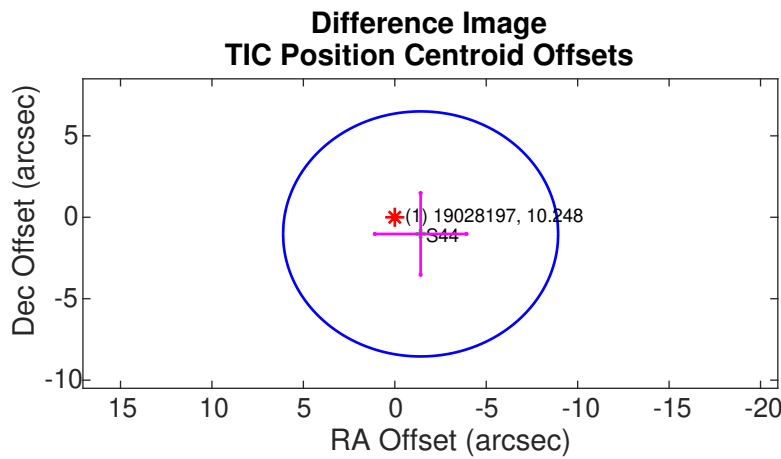
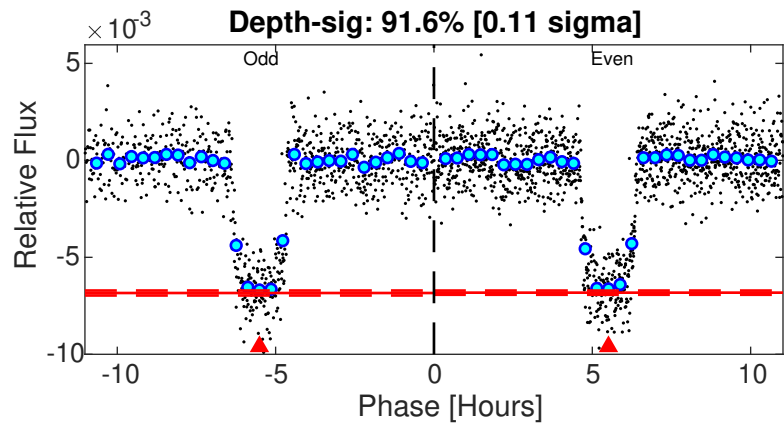
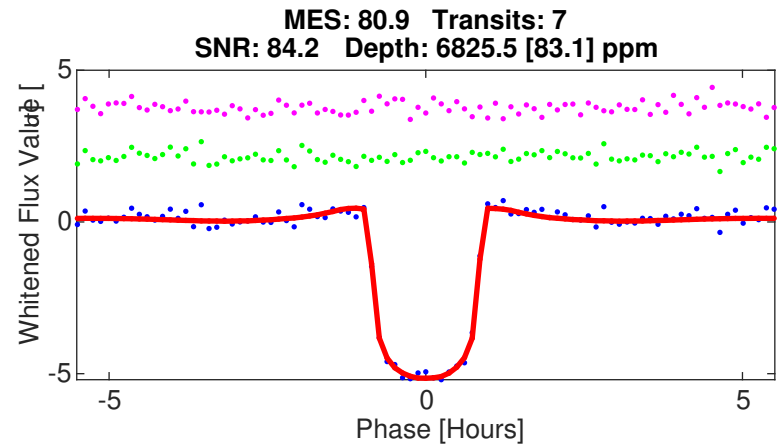
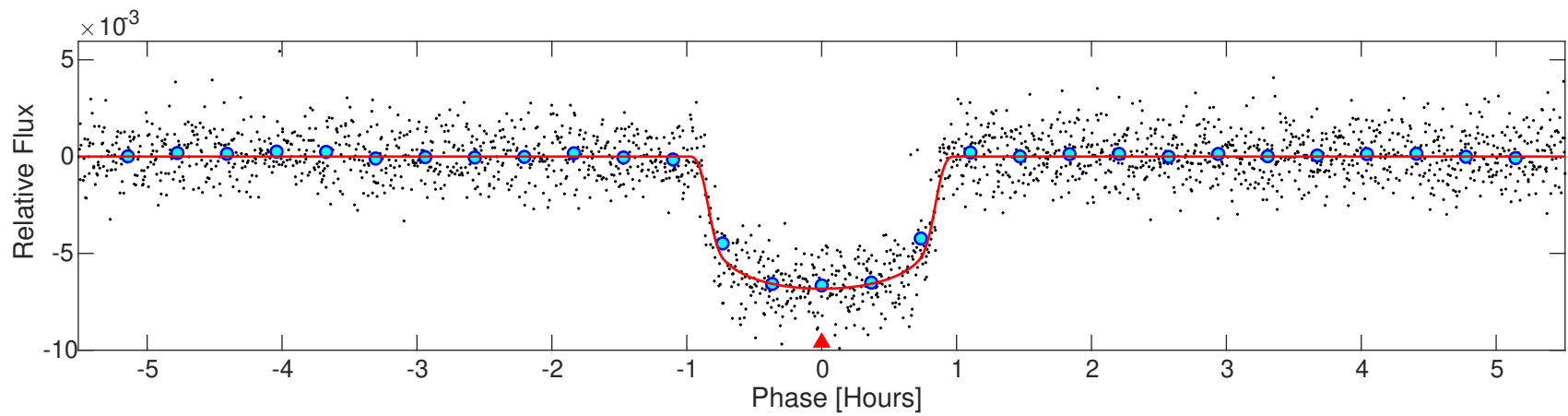
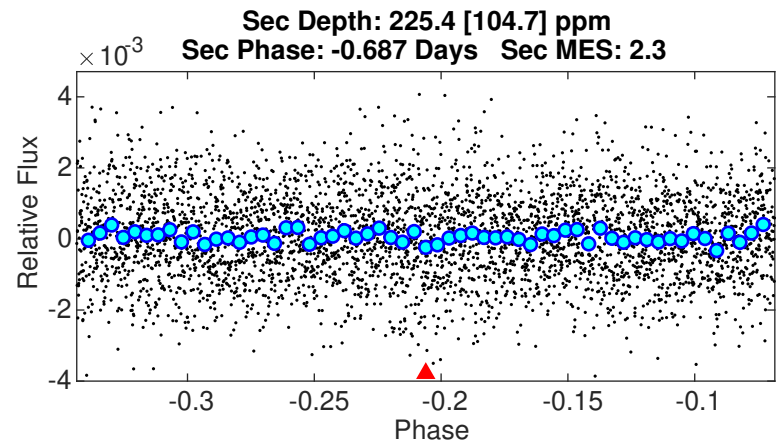
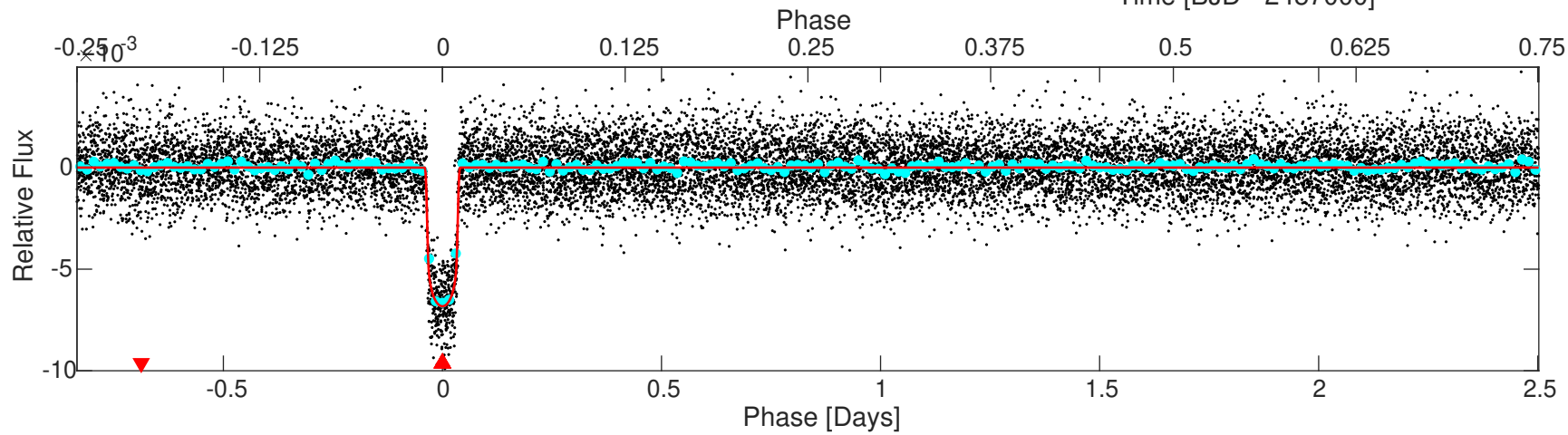
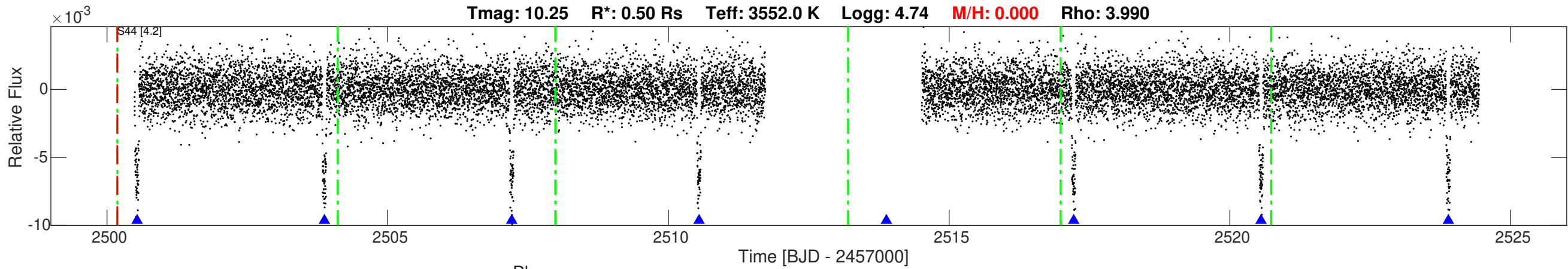
Distances are corrected for proper motion. This table may not contain all of the objects shown.

Stellar Distance Table – Continued

Index	TIC ID	TESS Mag	Distance (arcsec)
41	0000000019030571	18.26	144.75



Distances are corrected for proper motion. This table may not contain all of the objects shown.



DV Fit Results:

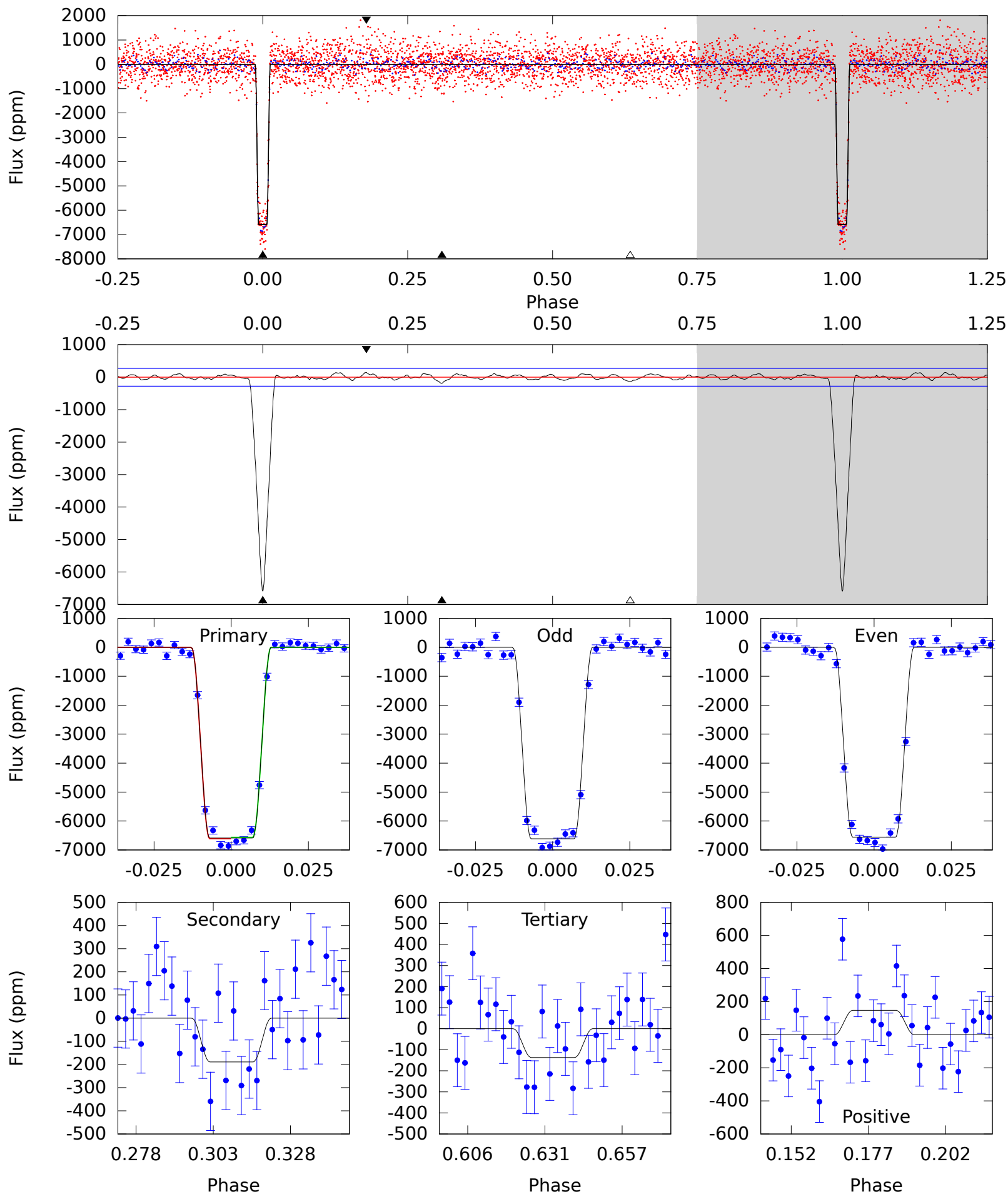
Period = 3.33667 [0.00008] d
Epoch = 2500.5356 [0.0004] BTJD
Rp/R* = 0.0760 [0.0025]
a/R* = 14.94 [2.53]
b = 0.01 [17.03]
Seff = 29.66 [5.29]
Teq = 595 [27] K
Rp = 4.15 [0.19] Re
a = 0.0347 [0.0007] AU
Rho = 4.027 [2.044]
Ag = 8.65 [4.06] [1.88 sigma]
Tp = 1578 [198] K [4.92 sigma]

DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 99.0%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 0.00e+00
GhostDiagnostic-chr: 8.385
OotOffset-rm: 0.340 arcsec [0.14 sigma]
TicOffset-rm: 1.743 arcsec [0.70 sigma]
OotOffset-tot: 1
TicOffset-tot: 1
DiffImageQuality-fgm: 1.00 [1/1]
DiffImageOverlap-fno: 1.00 [1/1]

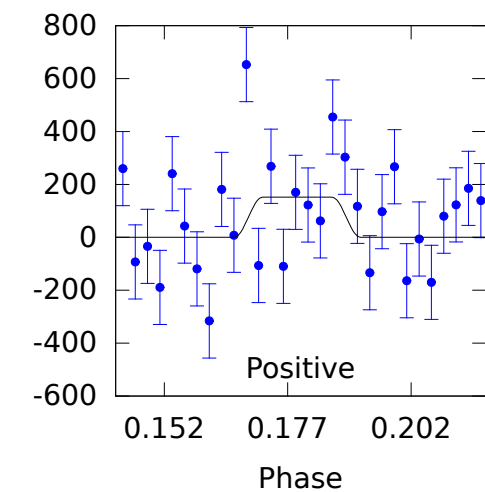
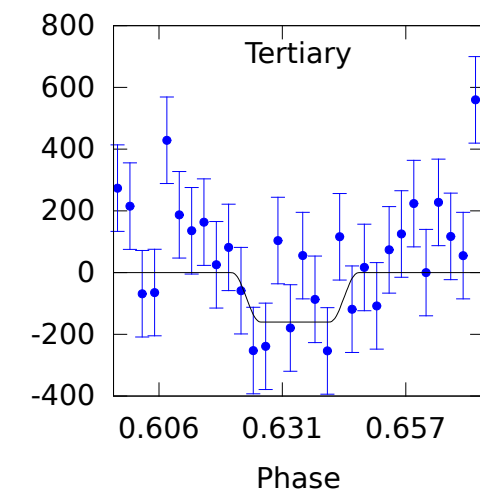
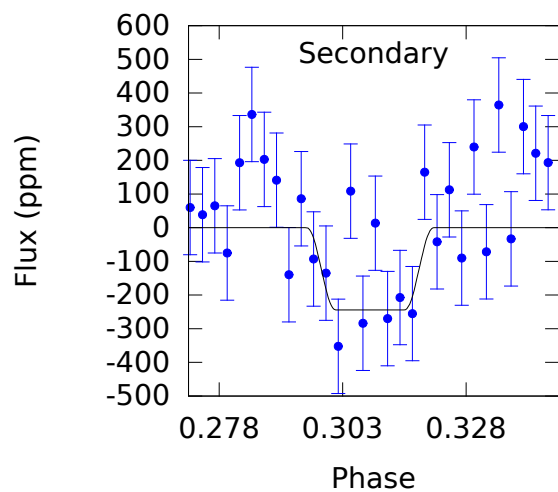
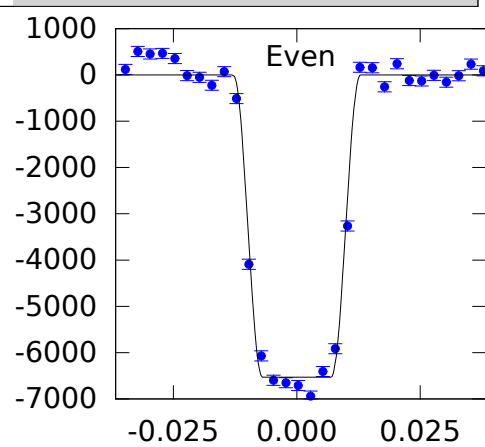
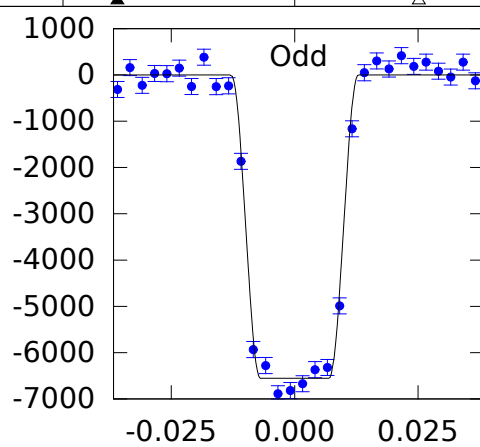
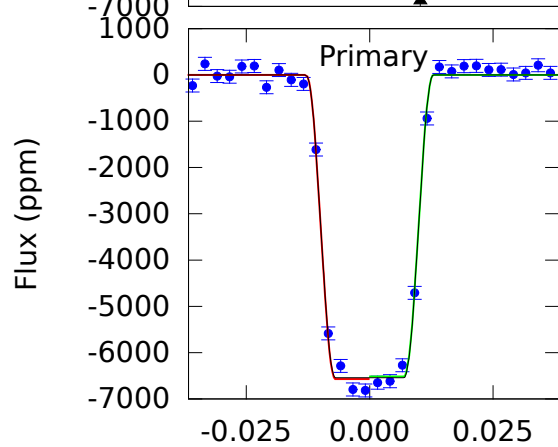
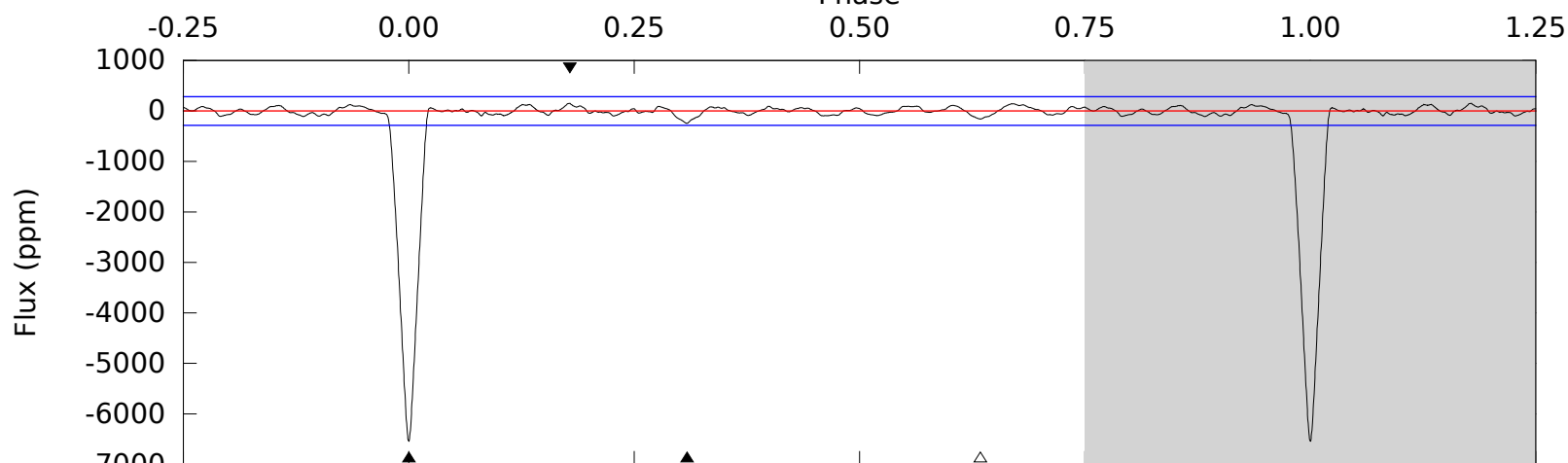
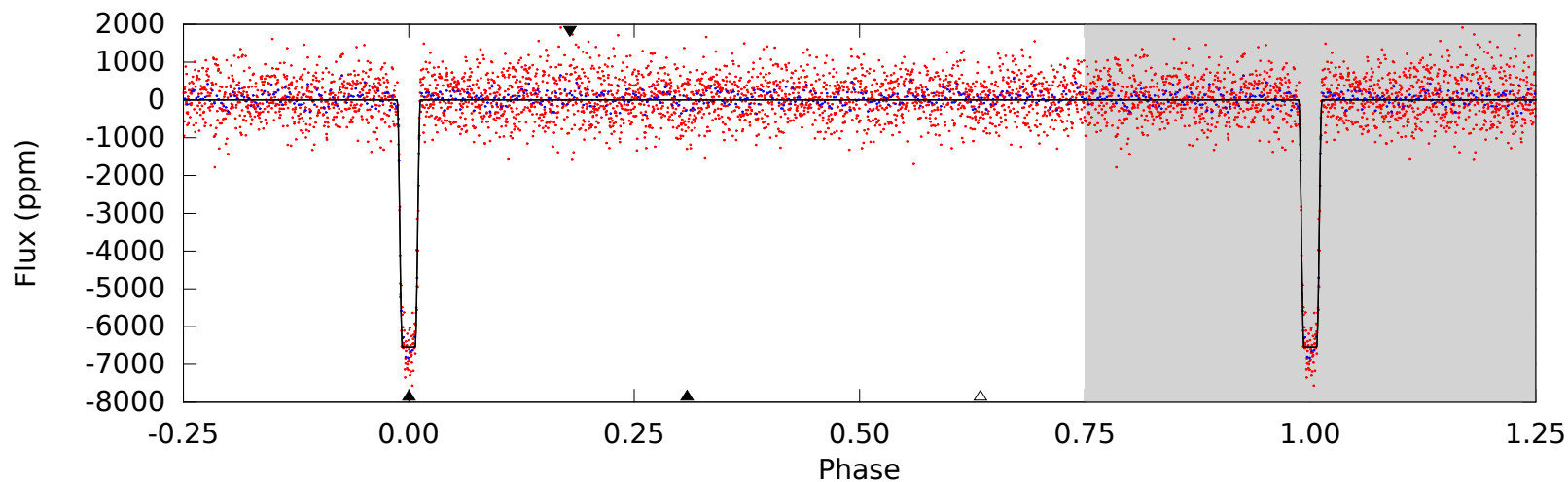
Tier 1 0000000019028197₀1, P = 3.336669 Days, E = 2497.198813 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
115.8	3.32	2.40	2.59	4.85	2.24	1.02	113.4	113.2	0.92	0.73	0.51	1.00	0.02	0.40

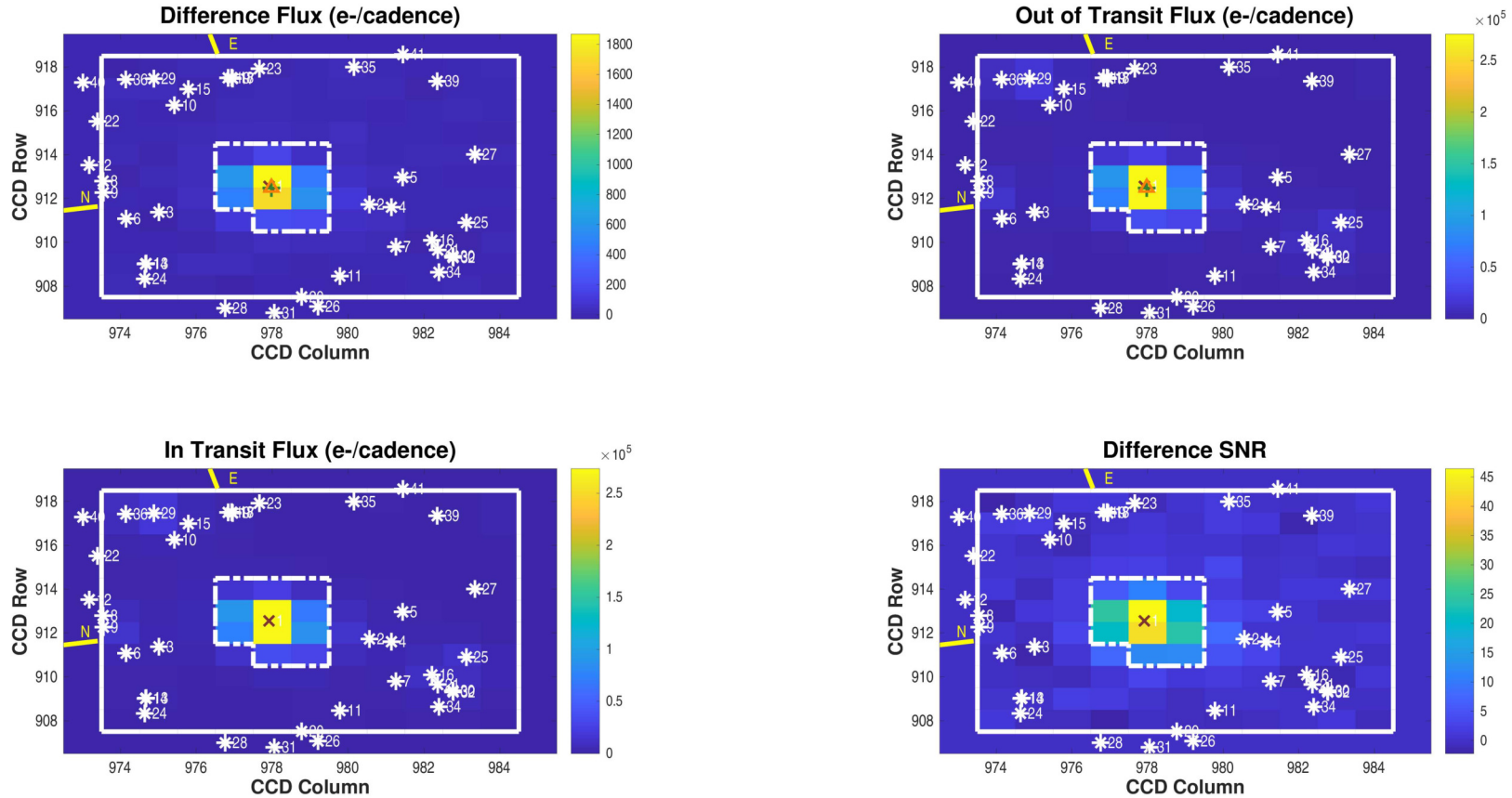


Tier 1 0000000019028197₀1, P = 3.336669 Days, E = 2497.198800 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
111.5	4.16	2.73	2.59	4.85	2.24	1.10	108.8	108.9	1.43	1.58	0.20	1.00	0.02	0.48



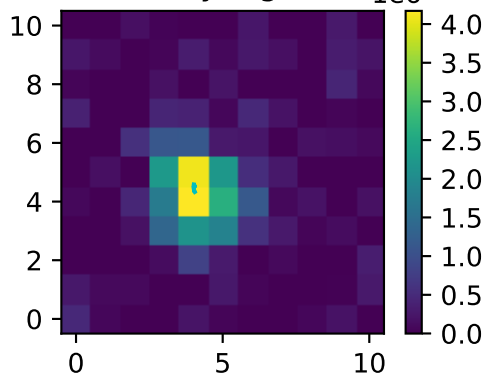
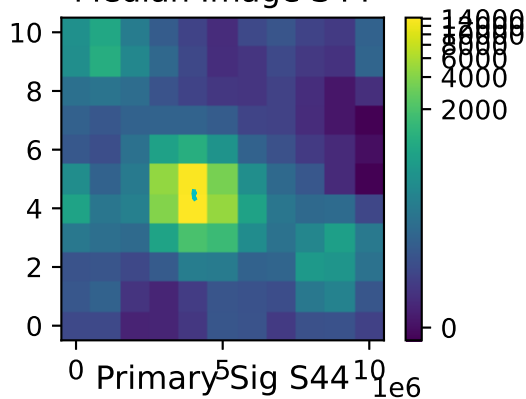
Difference Image
Planet Candidate 1 / Sector 44 / Target Pixel Table 328



Difference image for target 19028197, planet candidate 1, sector 44, target pixel table 328. Upper left: difference between mean flux out-of-transit and in-transit; upper right: mean out-of-transit flux; lower left: mean in-transit flux; lower right: difference between mean flux out-of-transit and in-transit after normalizing by the uncertainty in the difference for each pixel. The optimal aperture is outlined with a white dash-dotted line in each panel and the target mask is outlined with a solid white line. Symbol key: x: target position from TIC RA and Dec converted to CCD coordinates via motion polynomials; *: position of nearby TIC objects converted to CCD coordinates via motion polynomials; +: PRF-fit location of target from out-of-transit image; triangle: PRF-fit location of transit source from the difference image. Number of transits = 6; number of valid in-transit cadences = 269; number of in-transit cadence gaps = 0; number of valid out-of-transit cadences = 709; number of out-of-transit cadence gaps = 0. Difference image quality metric = 1.00 (good).

Open `./planet-01/difference-image/0000000019028197-01-difference-image-44-328.fig`

Median Image S44



Using TIC: 19028197

Tier 1

Using TIC catalog position 119.774332 15.391456 [J2000.0; epoch 2000.0]

Predicted GAIA position 119.773502 15.391209 [J2000.0; epoch 2015.5]

2MASS J07590587+1523294 From TIC

4 TIC entries within 60.0 arcsec of target 19028197

740016760 Sep [arcsec]: 40.811 Tmag: 19.53 Teff: 4605.0 Logg: 0.00 Rs[Rsun]: 0.00

740016762 Sep [arcsec]: 45.342 Tmag: 19.84 Teff: 0.0 Logg: 0.00 Rs[Rsun]: 0.00

740016753 Sep [arcsec]: 46.309 Tmag: 19.87 Teff: 0.0 Logg: 0.00 Rs[Rsun]: 0.00

740016752 Sep [arcsec]: 59.715 Tmag: 18.16 Teff: 4163.0 Logg: 4.76 Rs[Rsun]: 0.56

No TOIs associated with TIC at ExoFop

Target Parameters

Catalog	Tmag/Rpmag	Teff	Logg	Rstar	Mstar
TIC	10.2479	3552.0±157.0	4.74±0.01	0.50± 0.0	0.50± 0.02
GAIA DR2	10.291	3775.5±114.8	...	--±--	...

Other GAIA G: 11.35 Bp: 12.59 AbsG: 8.55 (Bp-Rp)o: 2.062 AstroGOF: 23.75 AstroExNoiSig: 12.38

Target Links

[ExoFOP](#)

[Simbad](#)

[Vizier](#)

[MAST TESS Data Holdings](#)

[IRSA Finderchart](#)

[ESO Data Archive Holdings](#)

[TESScut TPF Download](#)

[GAIA DR2 60" Cone Search @MAST](#)

NASA Ames SPOC DV Results Available at MAST

No DV Results for this target at MAST

TESS Observe - Sec Cam Ccd Col Row

19028197 44 4 2 978.08 912.73

19028197 45 2 1 1153.94 1577.39

19028197 46 1 4 949.31 1937.90