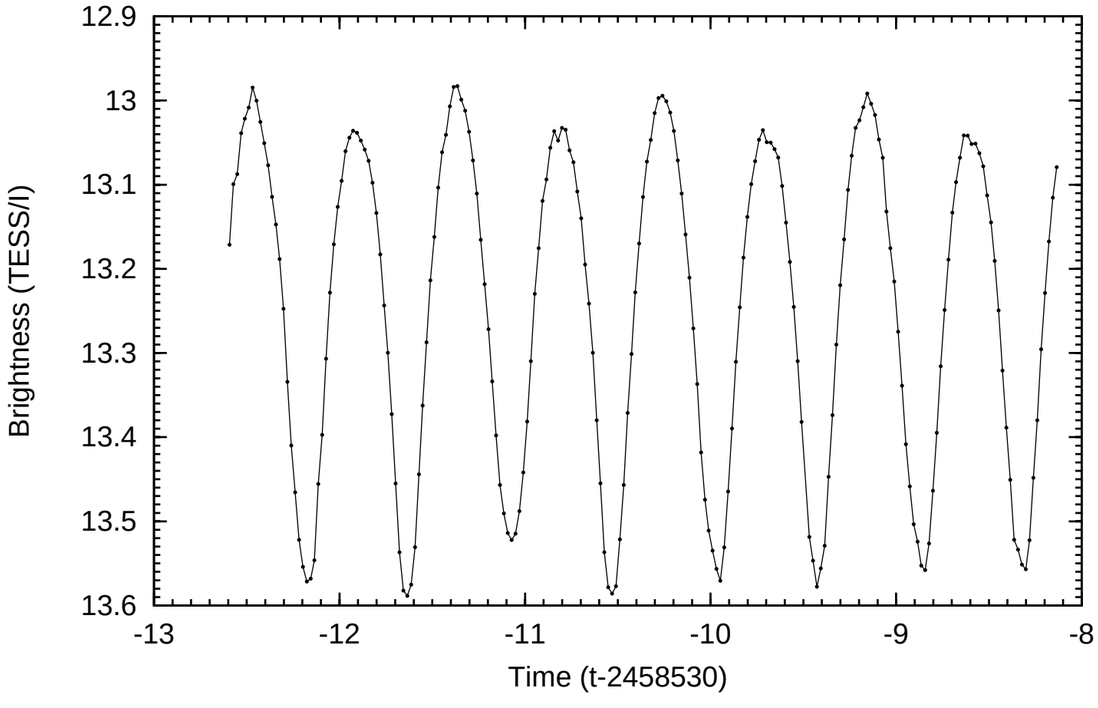
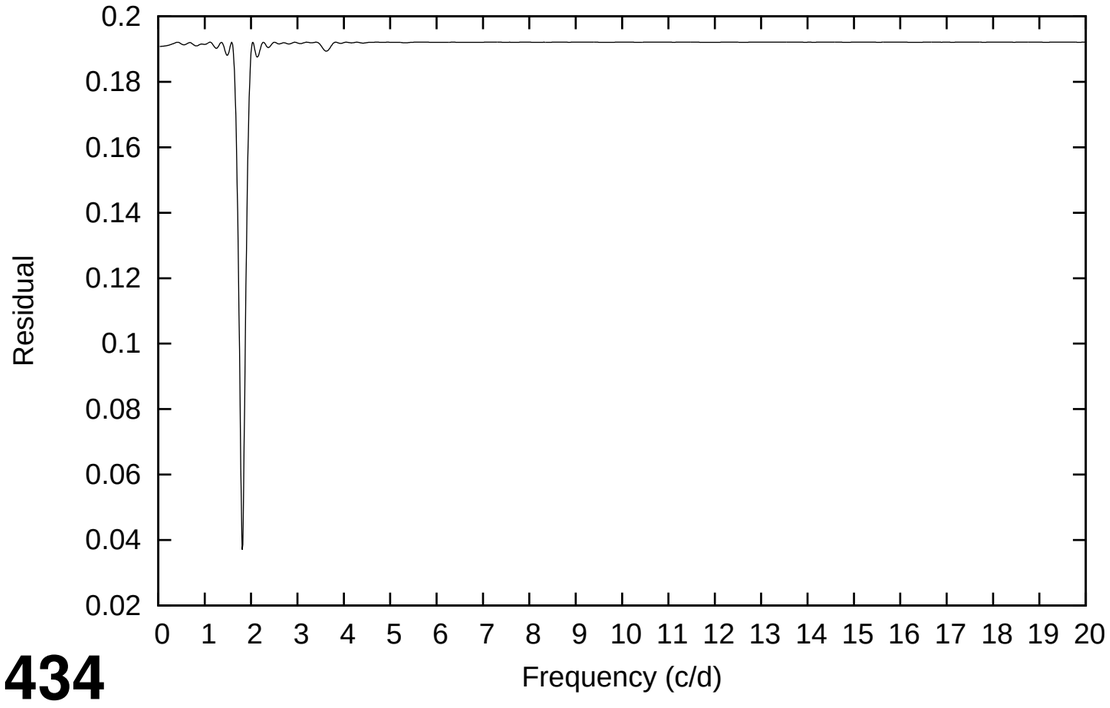
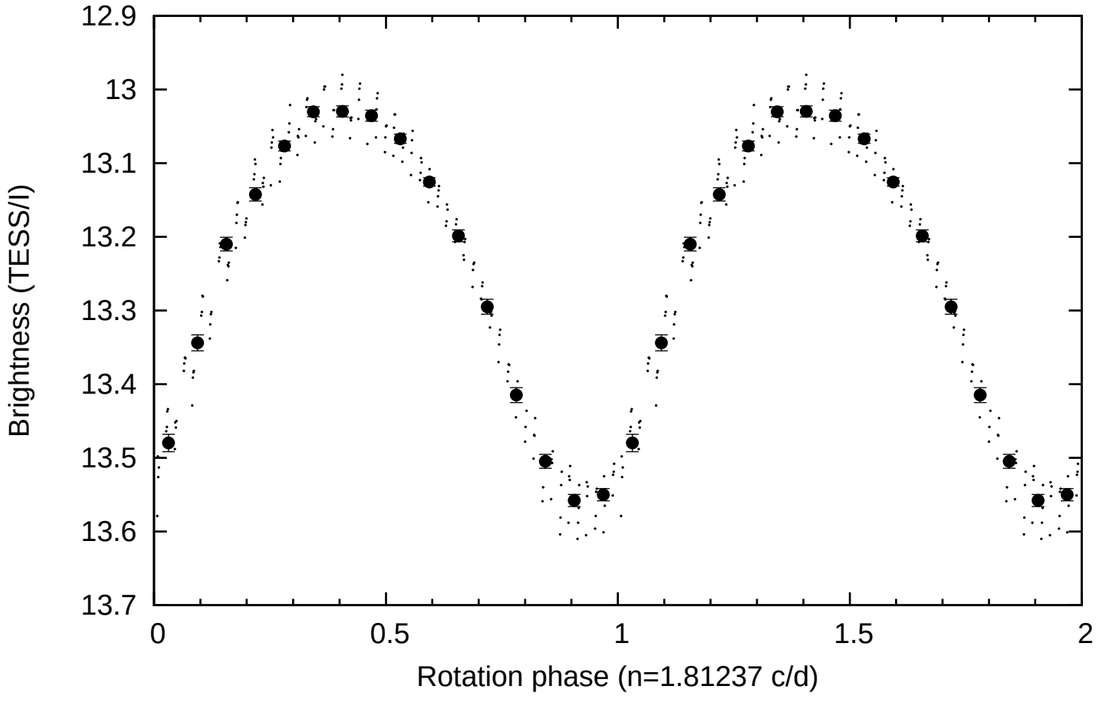
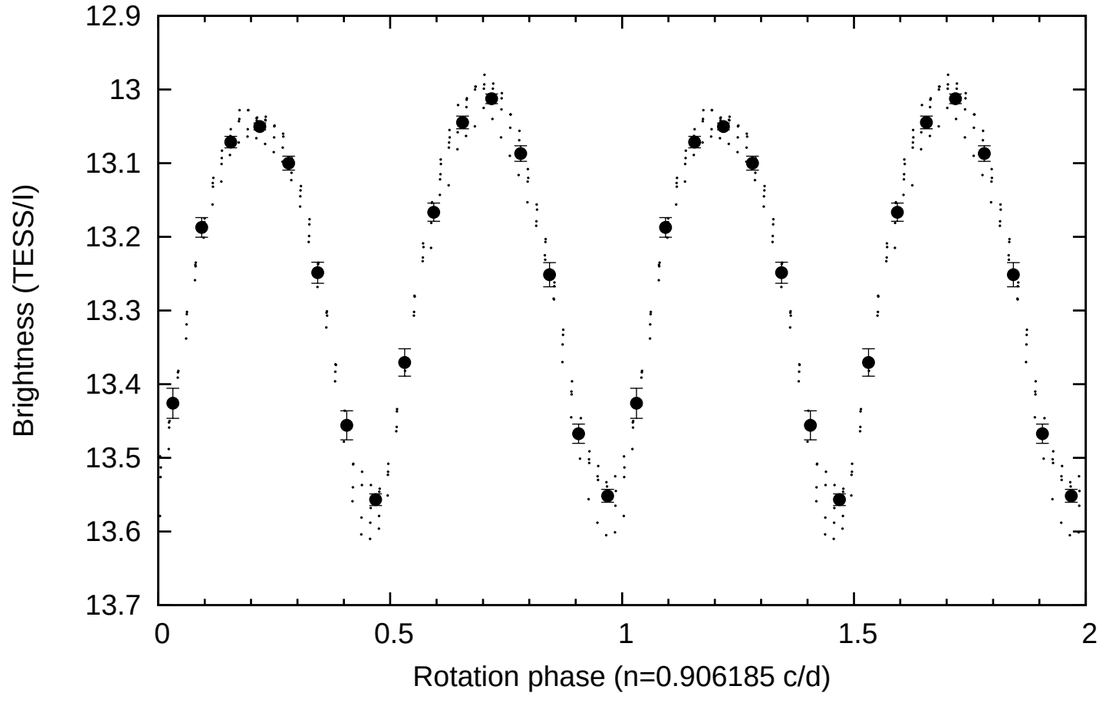
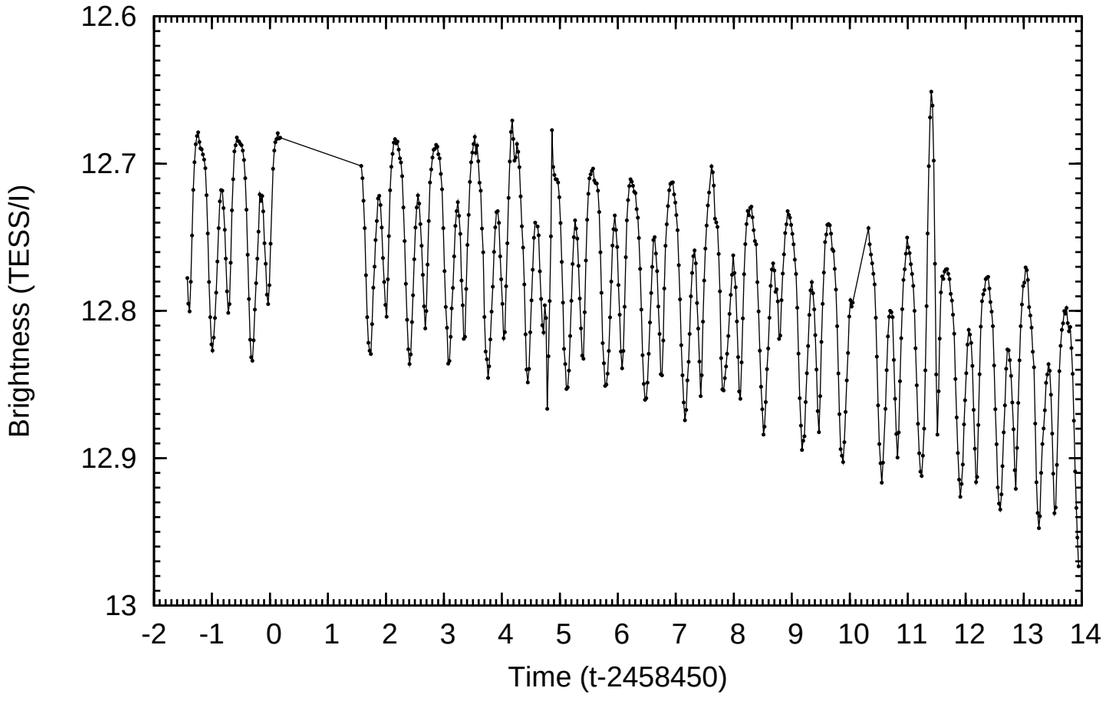

Brightness (TESS/I)
Time (t-2458530)
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
-13
-12
-11
-10
-9
-8

434

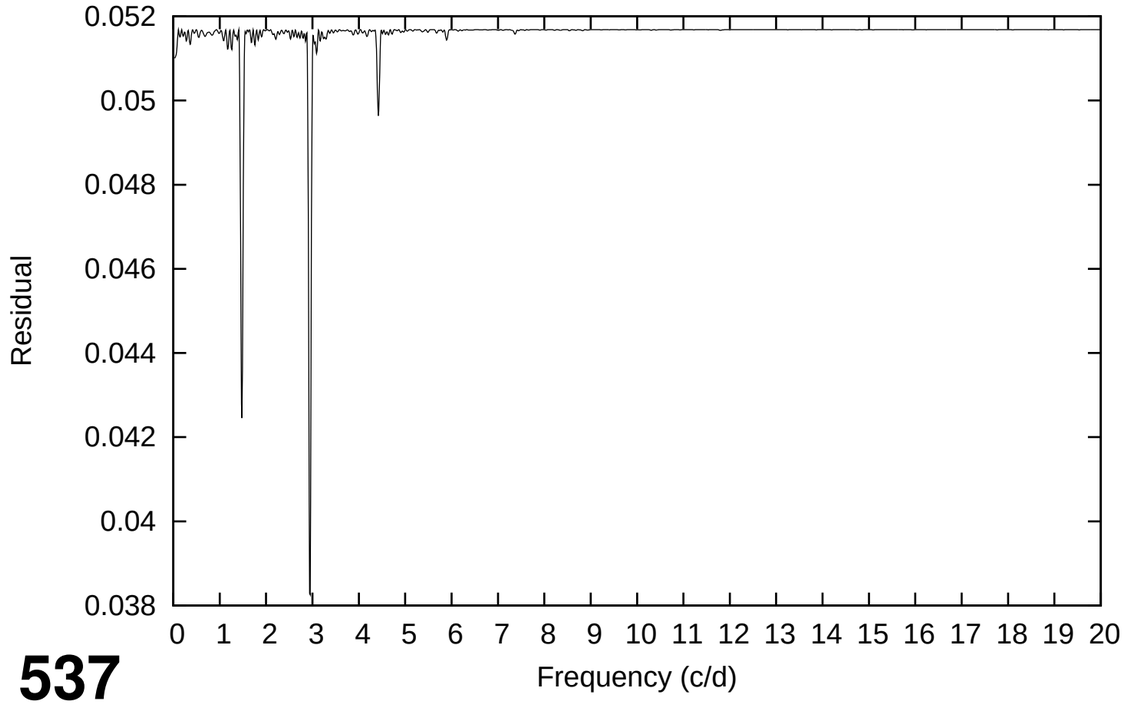

Residual
Frequency (c/d)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

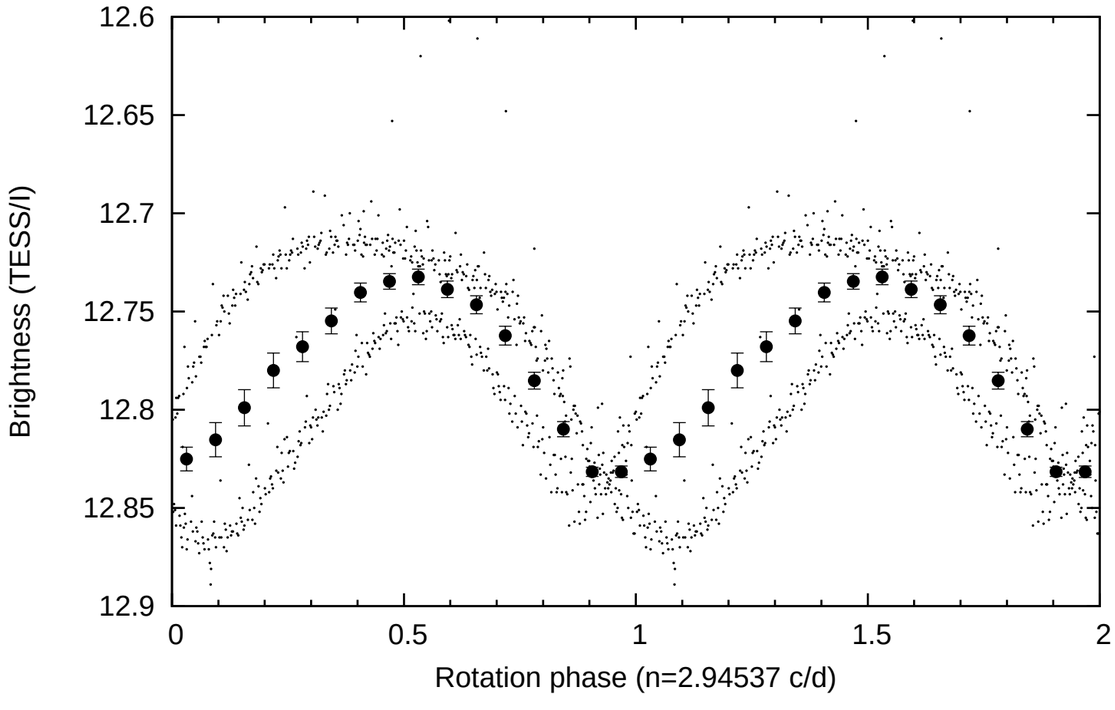

Brightness (TESS/I)
Rotation phase (n=1.81237 c/d)
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
0
0.5
1
1.5
2

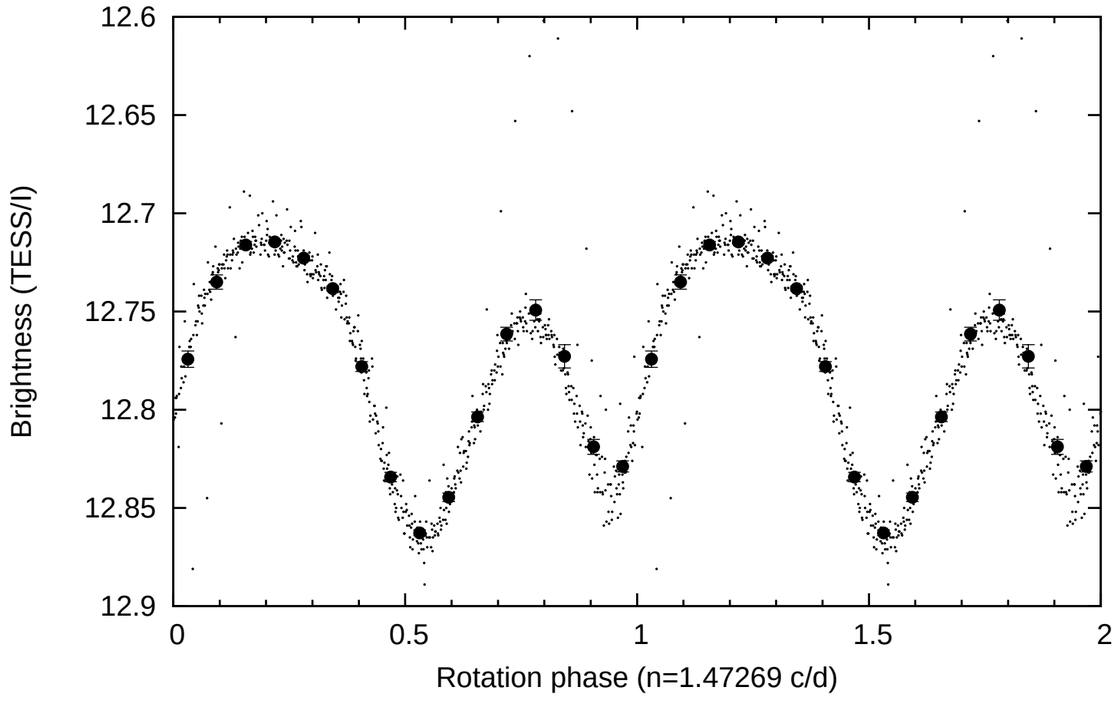

Brightness (TESS/I)
Rotation phase (n=0.906185 c/d)
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
0
0.5
1
1.5
2

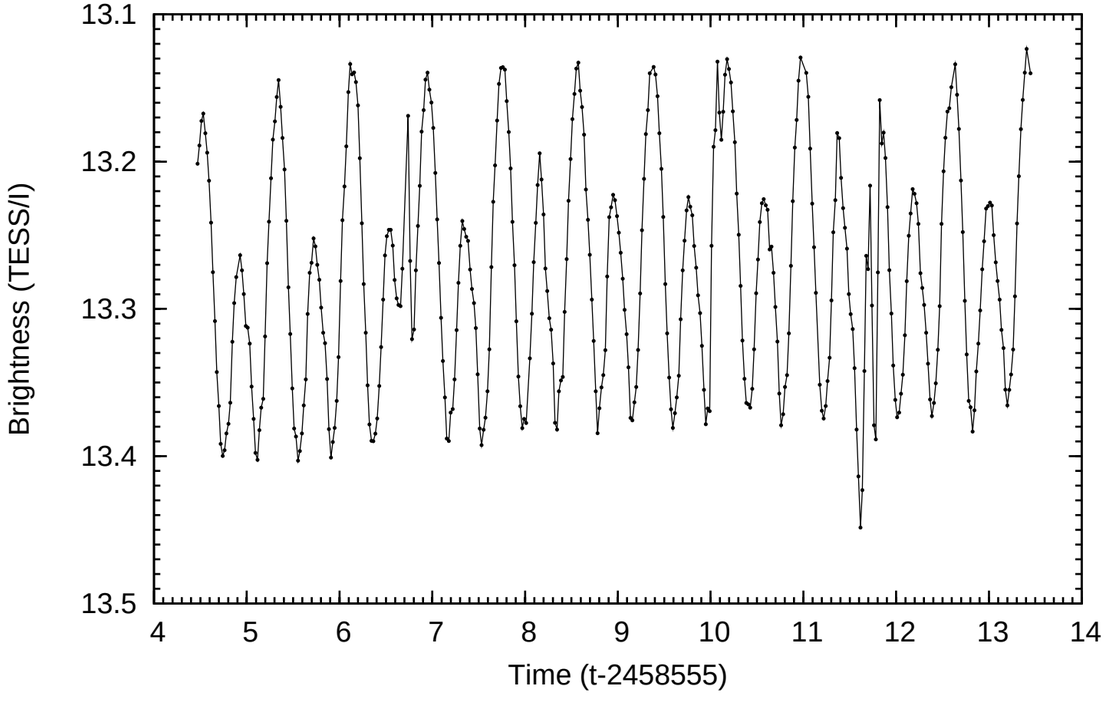

12.6
12.7
12.8
12.9
13
Brightness (TESS/I)
-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (t-2458450)

537

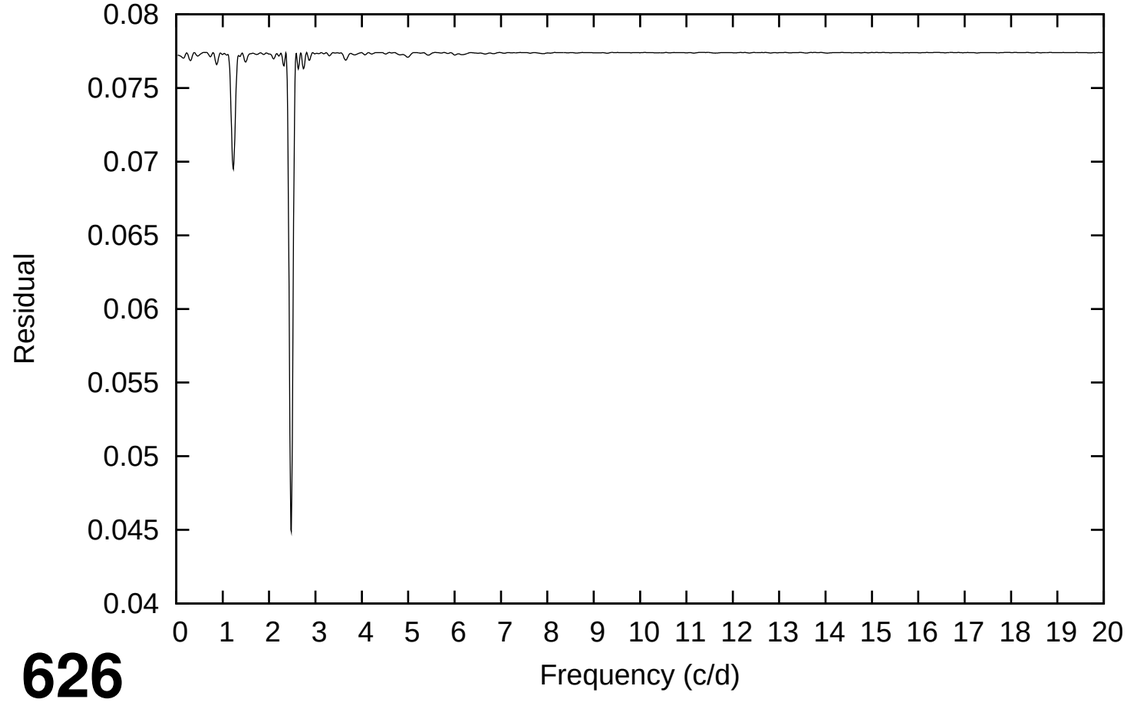

0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

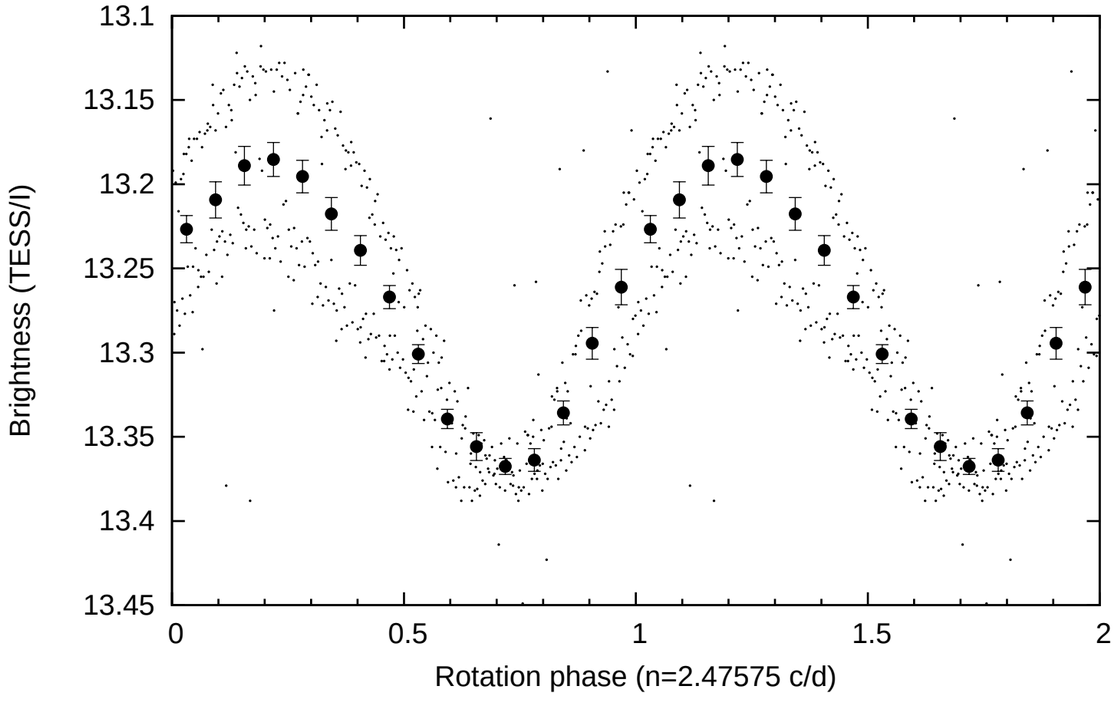

12.6
12.65
12.7
12.75
12.8
12.85
12.9
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=2.94537 c/d)

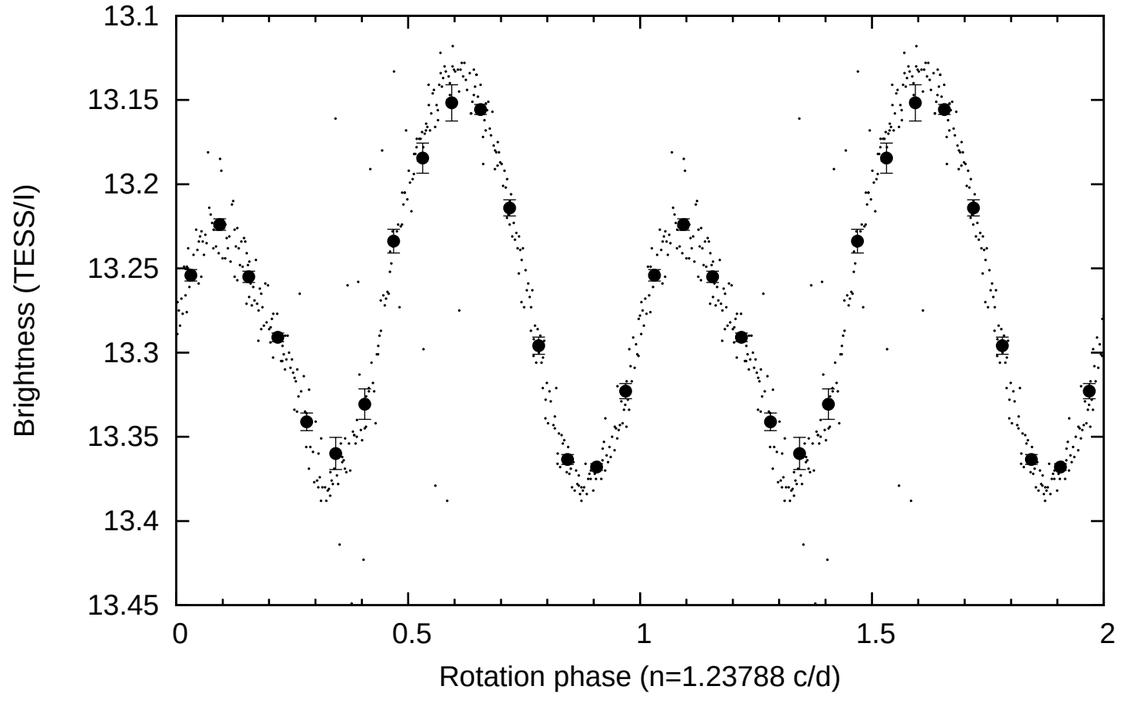

12.6
12.65
12.7
12.75
12.8
12.85
12.9
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=1.47269 c/d)

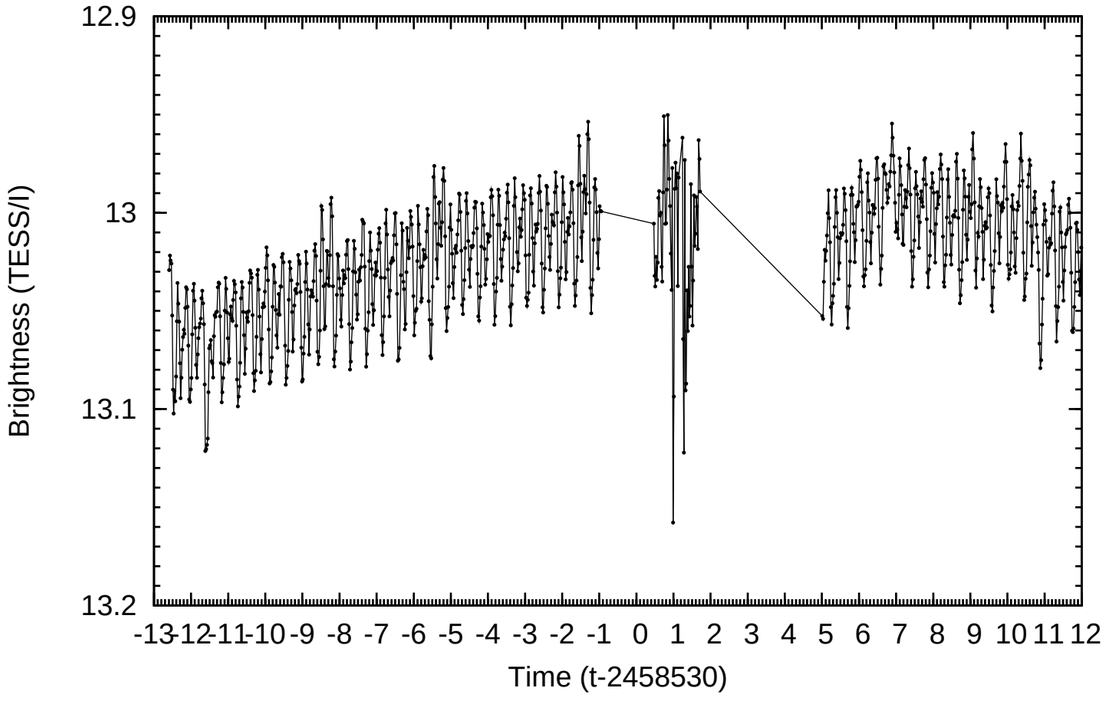

Brightness (TESS/I)
Time (t-2458555)

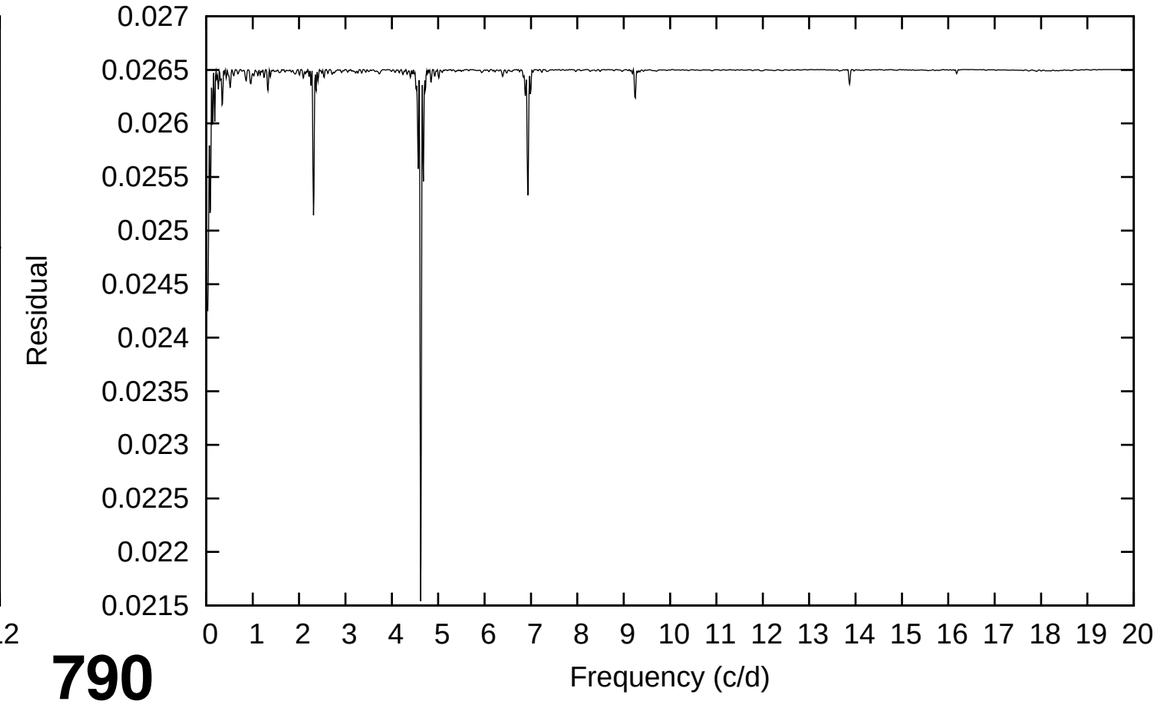
626


Residual
Frequency (c/d)

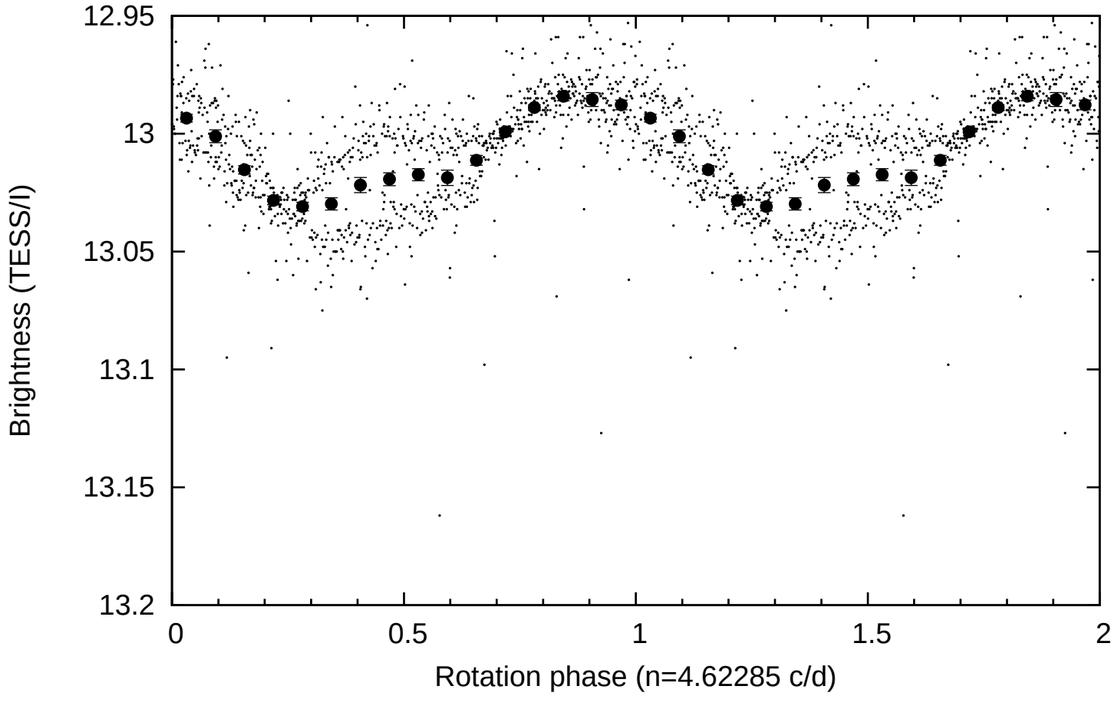

Brightness (TESS/I)
Rotation phase (n=2.47575 c/d)

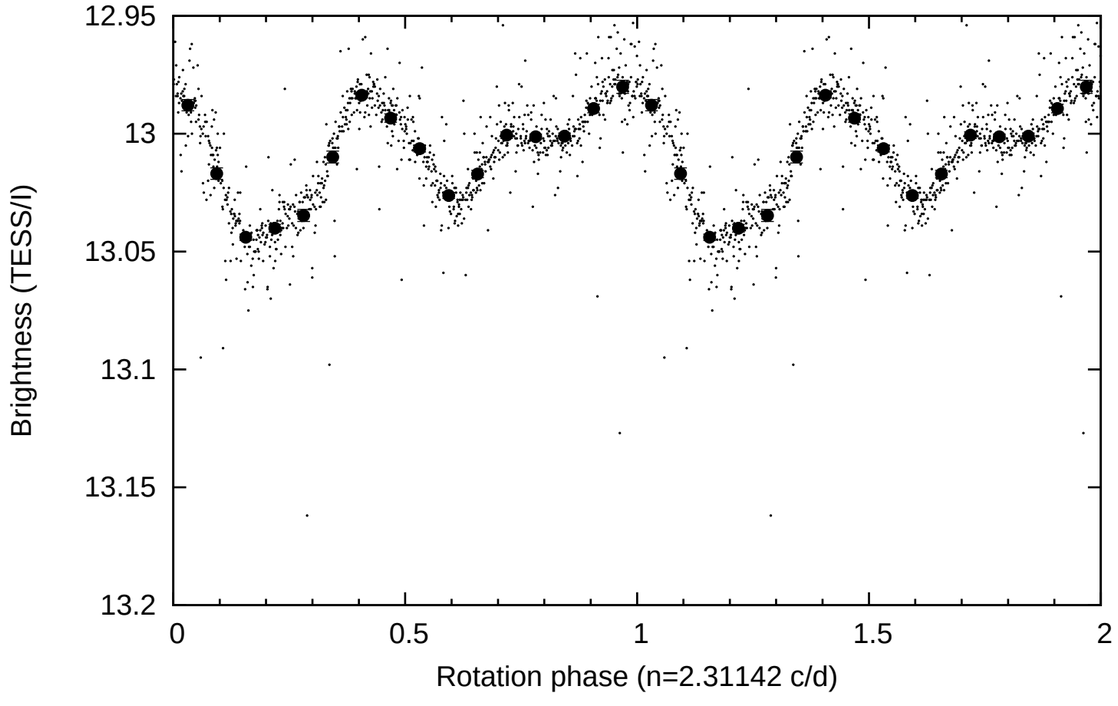

Brightness (TESS/I)
Rotation phase (n=1.23788 c/d)

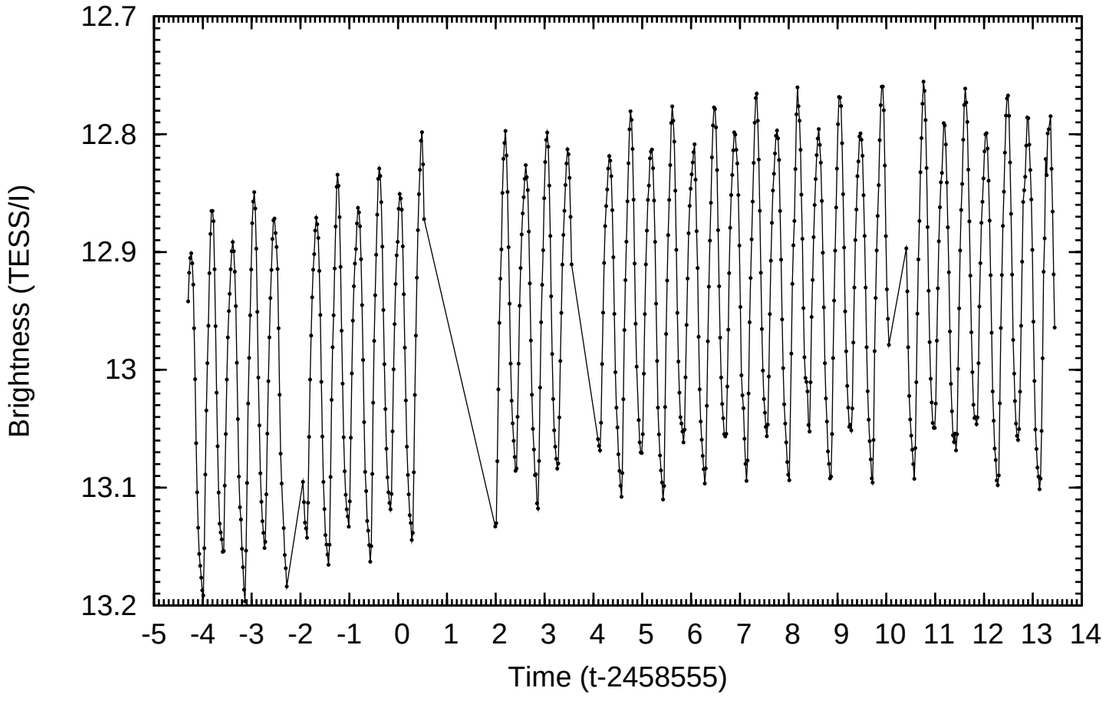

Brightness (TESS/I)
12.9
13
13.1
13.2
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (t-2458530)

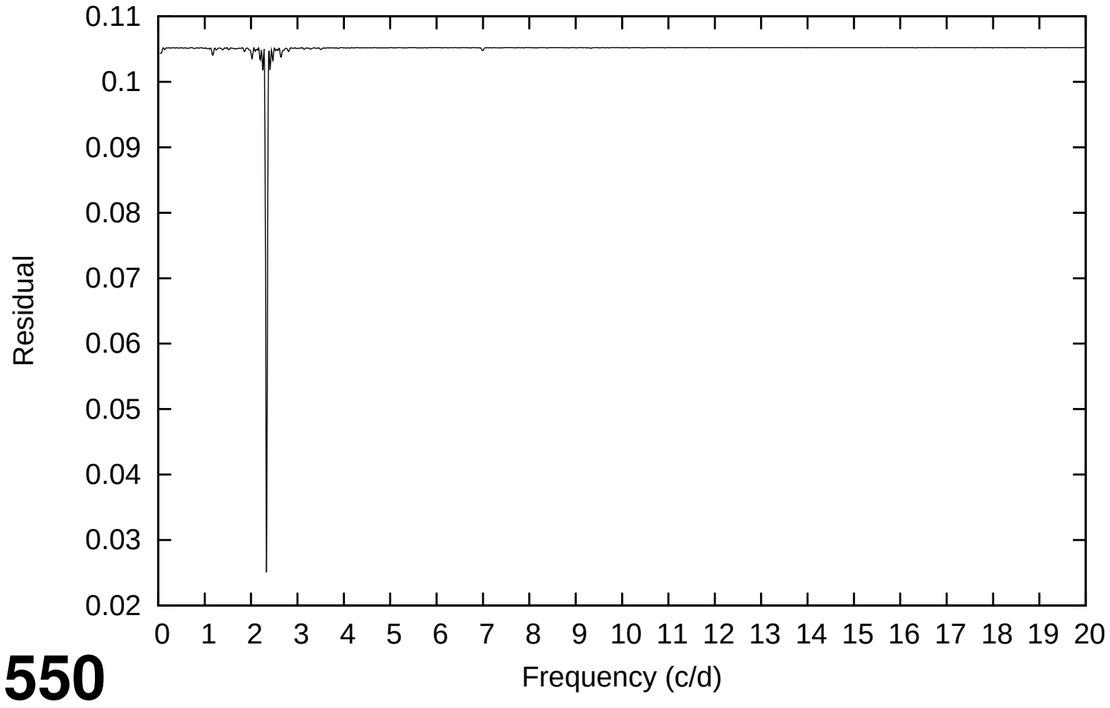

Residual
0.027
0.0265
0.026
0.0255
0.025
0.0245
0.024
0.0235
0.023
0.0225
0.022
0.0215
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

790

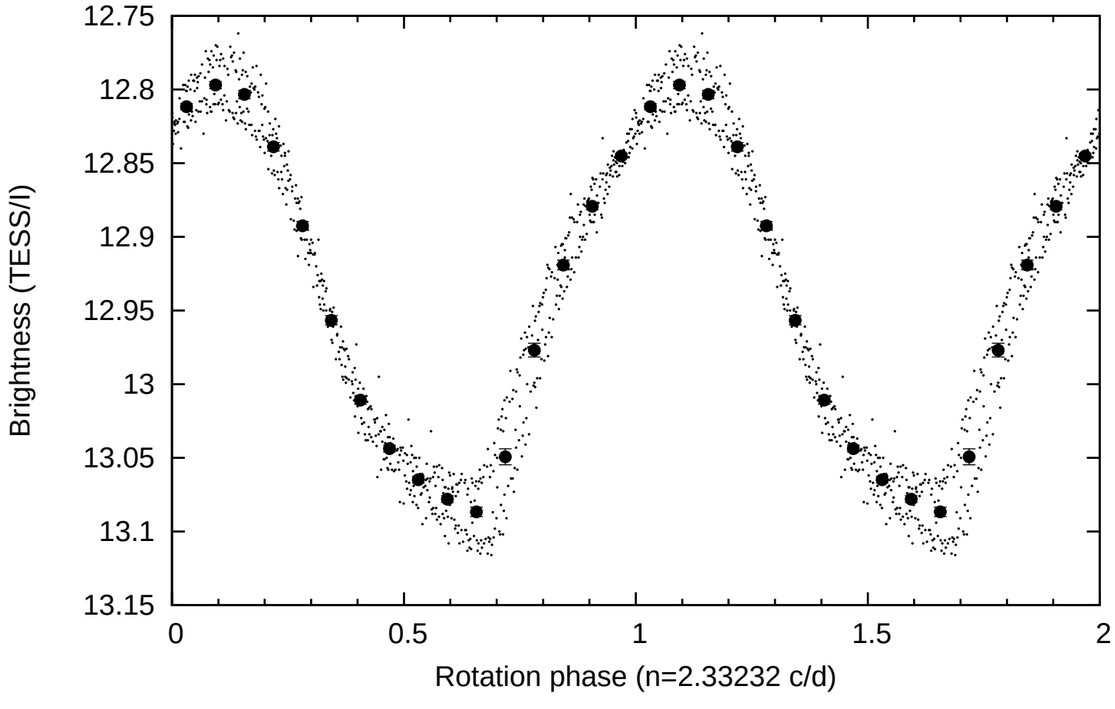

Brightness (TESS/I)
12.95
13
13.05
13.1
13.15
13.2
0 0.5 1 1.5 2
Rotation phase (n=4.62285 c/d)

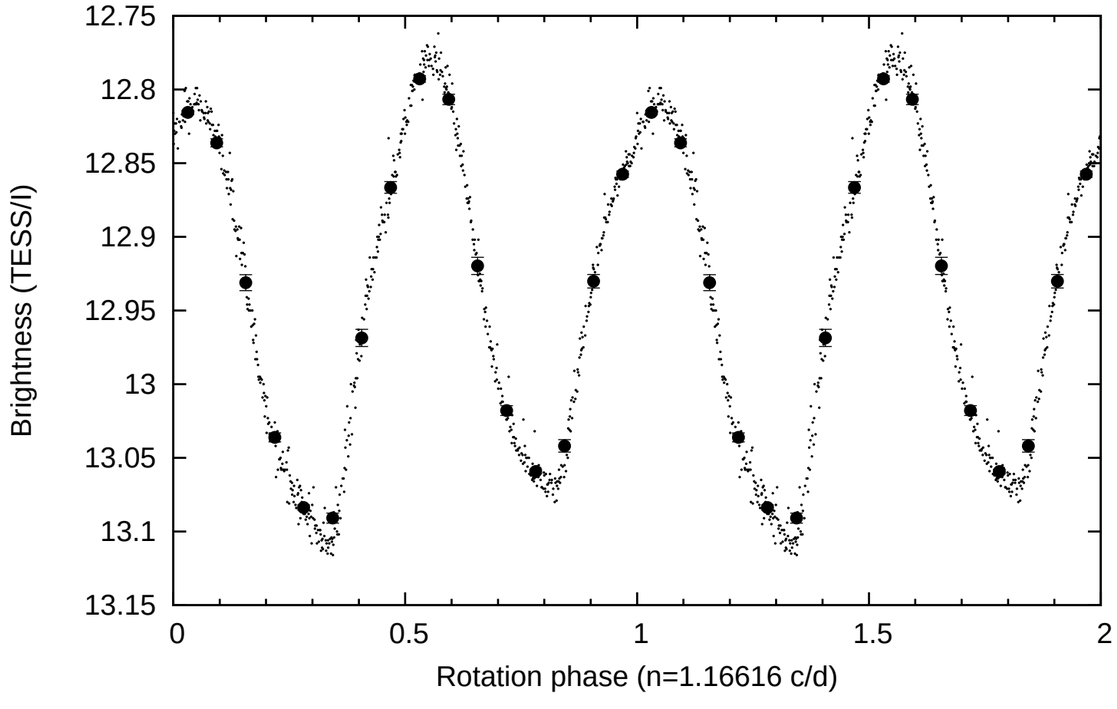

Brightness (TESS/I)
12.95
13
13.05
13.1
13.15
13.2
0 0.5 1 1.5 2
Rotation phase (n=2.31142 c/d)

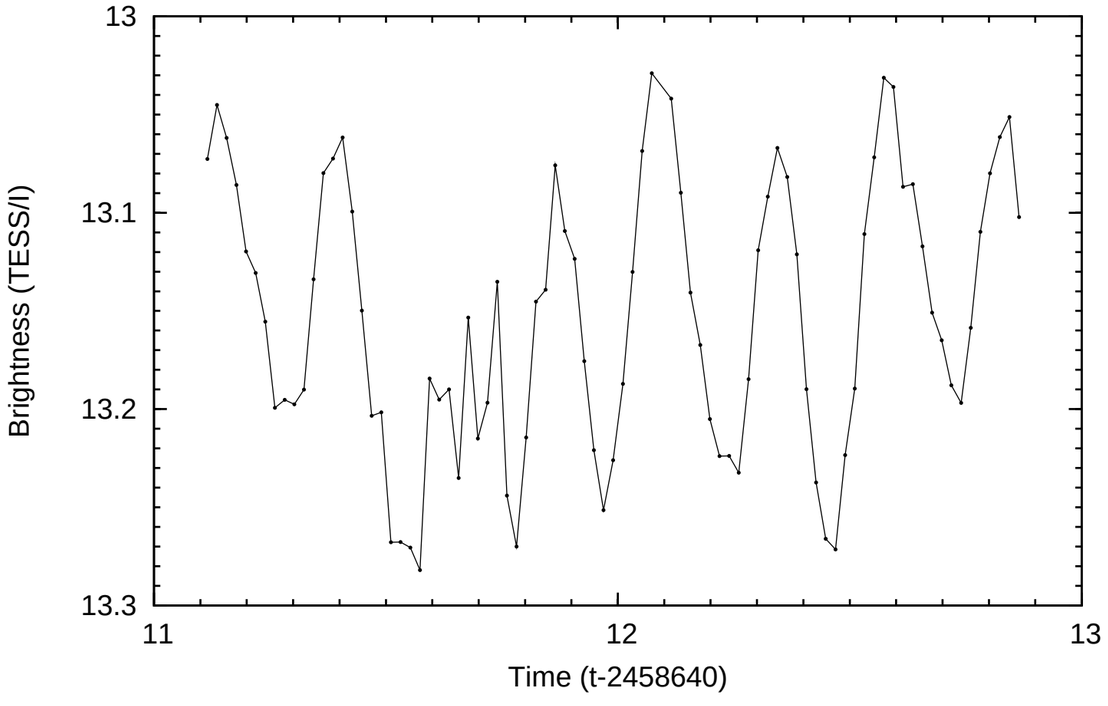

Brightness (TESS/I)
Time (t-2458555)

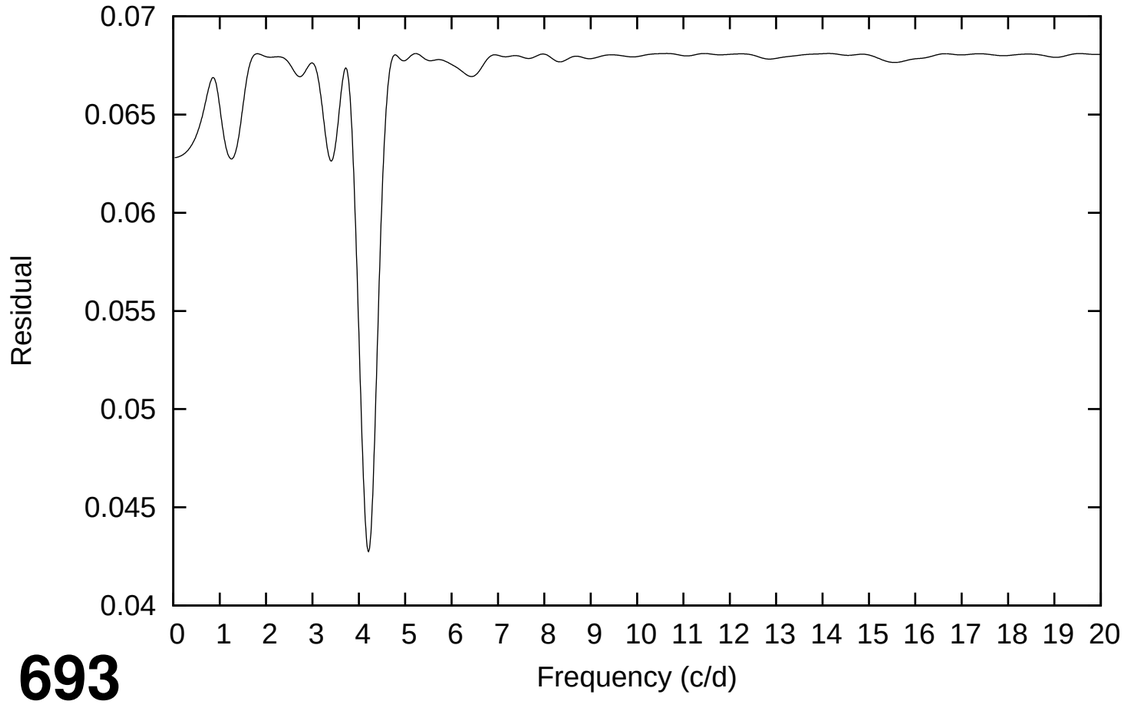

Residual
Frequency (c/d)

550

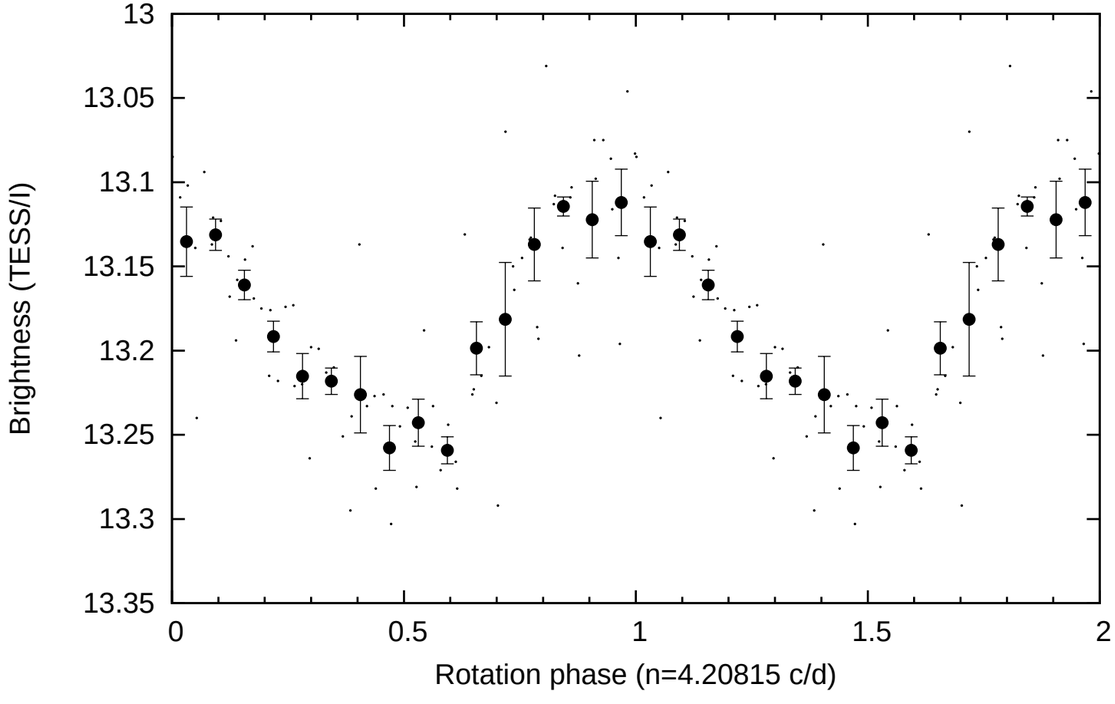

Brightness (TESS/I)
Rotation phase (n=2.33232 c/d)

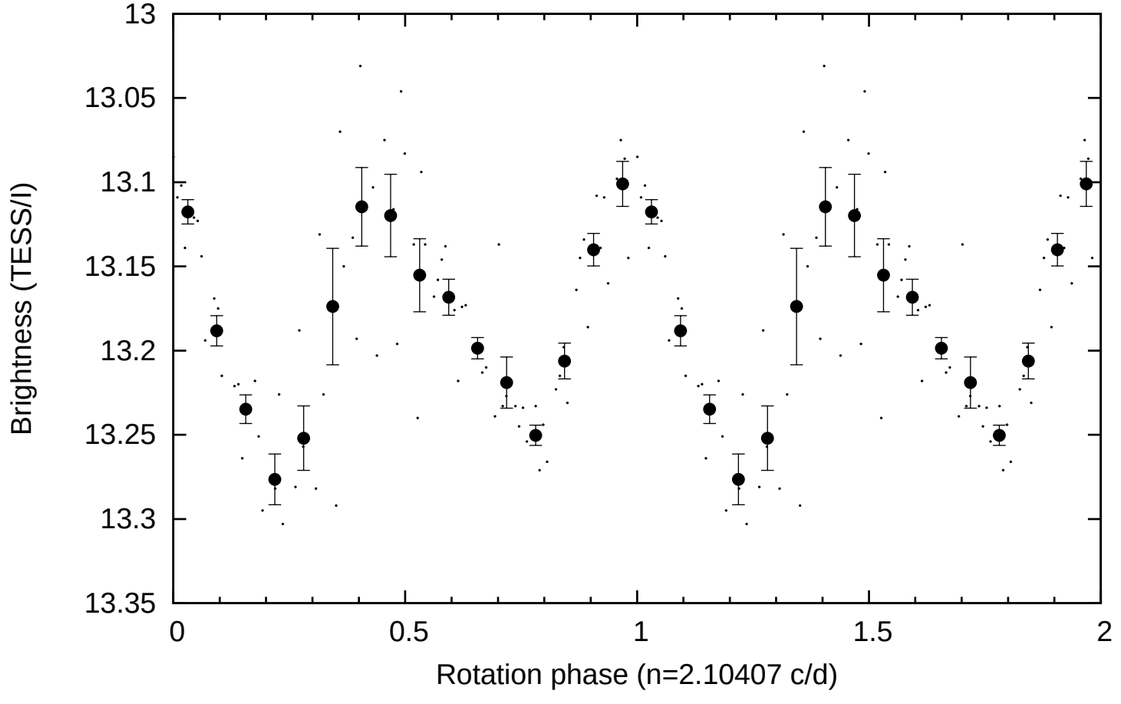

Brightness (TESS/I)
Rotation phase (n=1.16616 c/d)

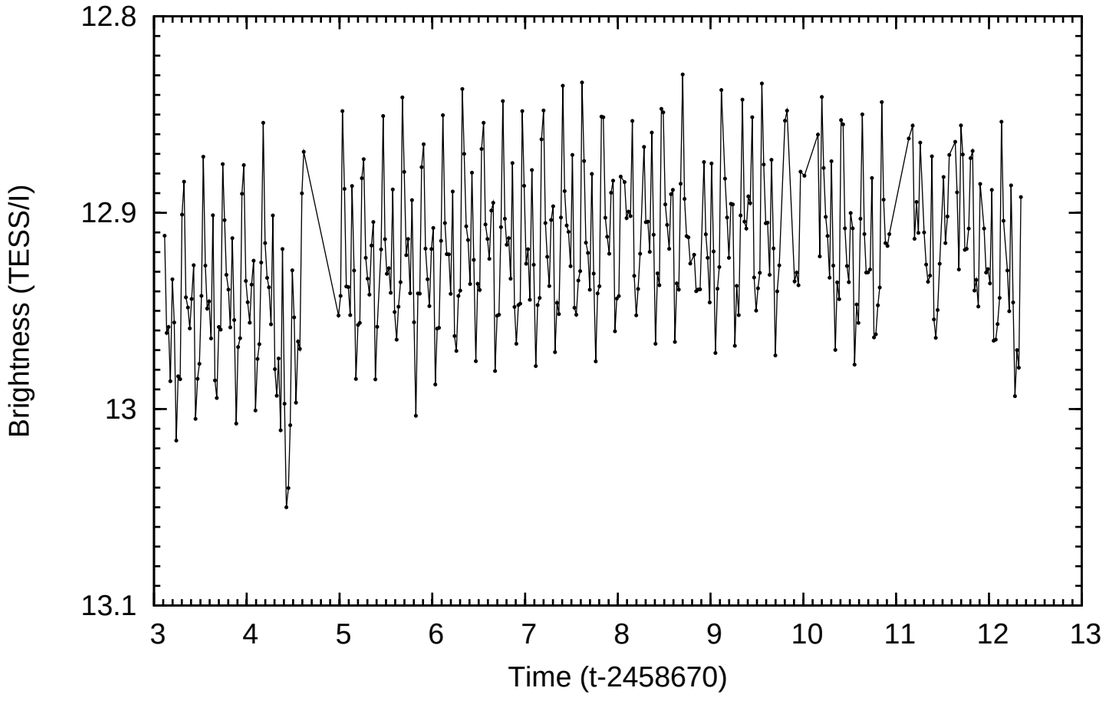

13
13.1
13.2
13.3
Brightness (TESS/I)
11
12
13
Time (t-2458640)


0.07
0.065
0.06
0.055
0.05
0.045
0.04
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

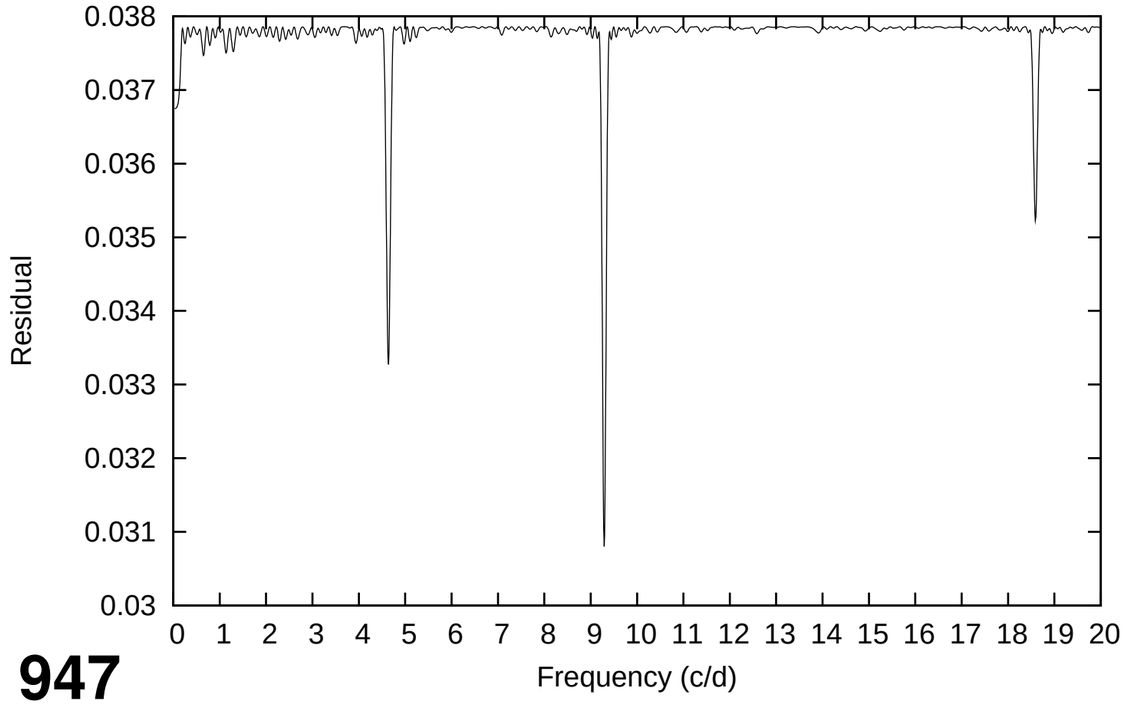
693

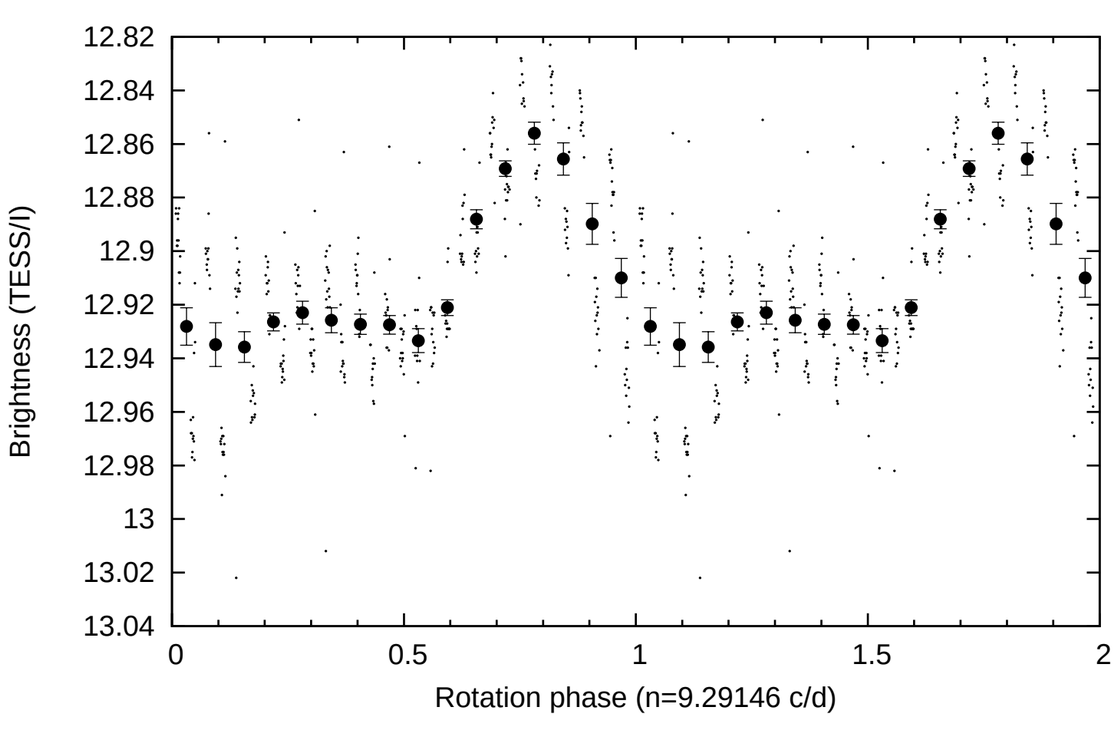

13
13.05
13.1
13.15
13.2
13.25
13.3
13.35
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=4.20815 c/d)

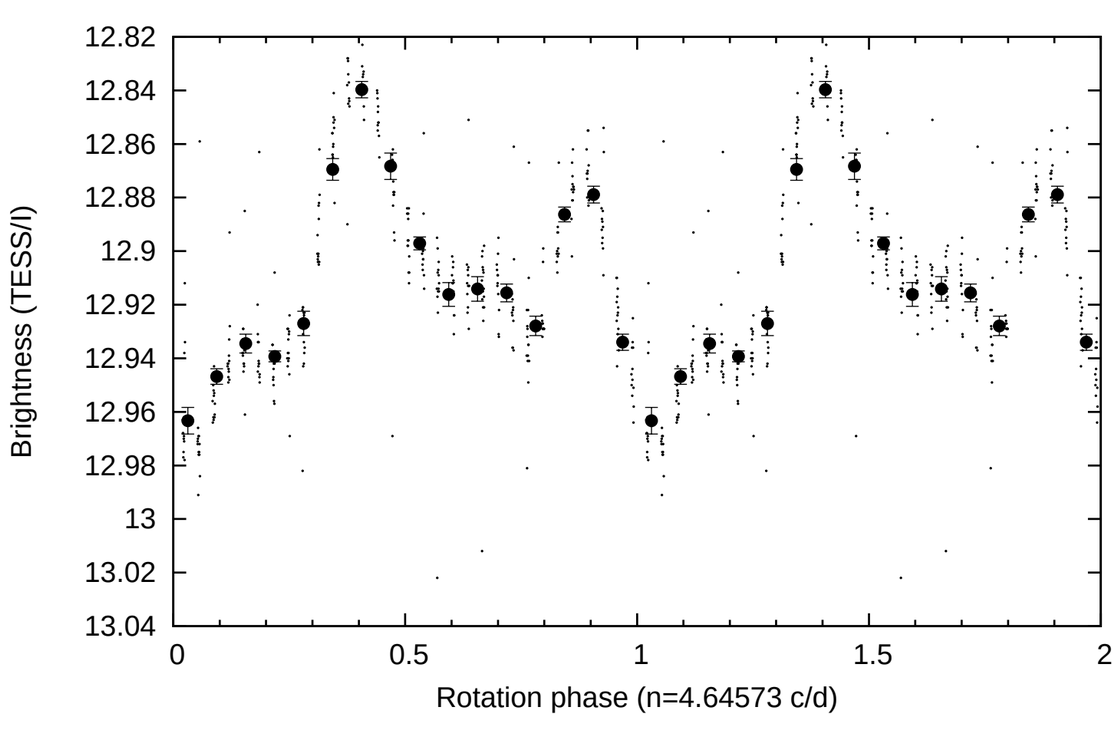

13
13.05
13.1
13.15
13.2
13.25
13.3
13.35
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=2.10407 c/d)

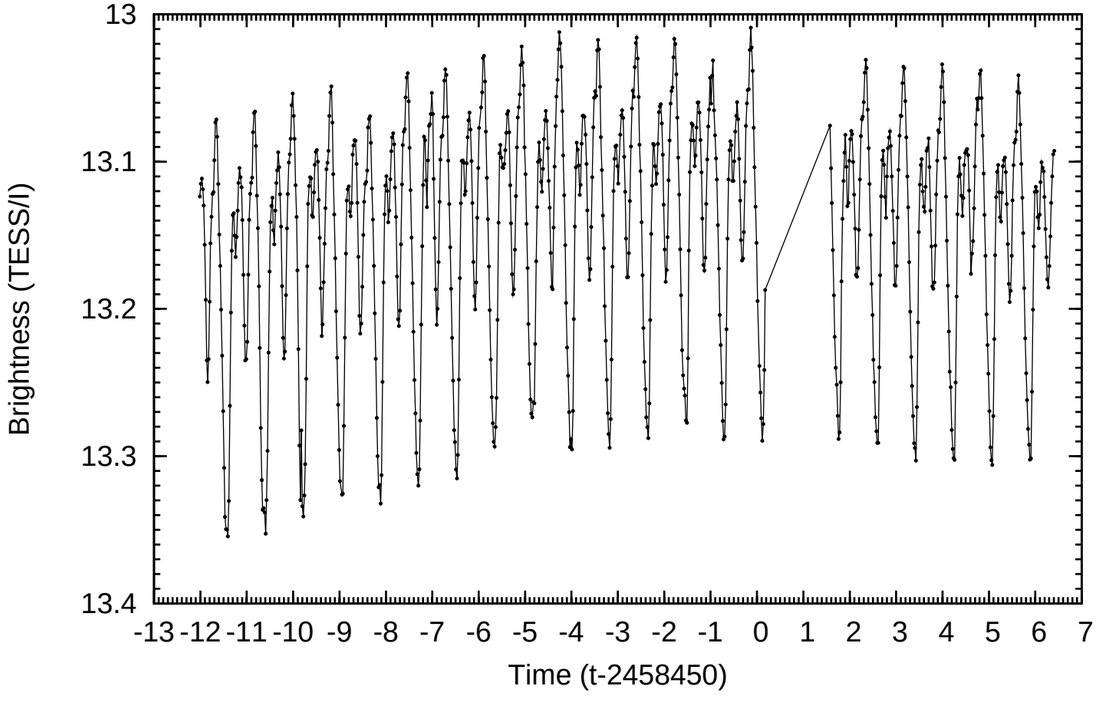

12.8
12.9
13
13.1
Brightness (TESS/I)
3
4
5
6
7
8
9
10
11
12
13
Time (t-2458670)

947

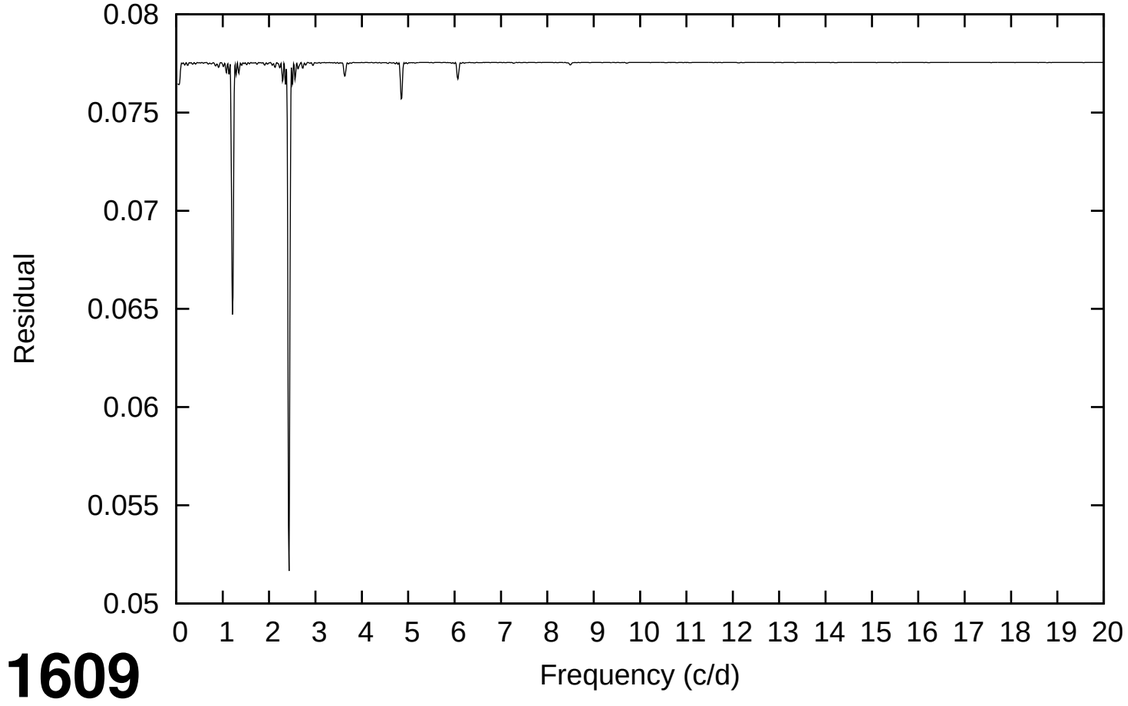

0.038
0.037
0.036
0.035
0.034
0.033
0.032
0.031
0.03
Residual
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Frequency (c/d)

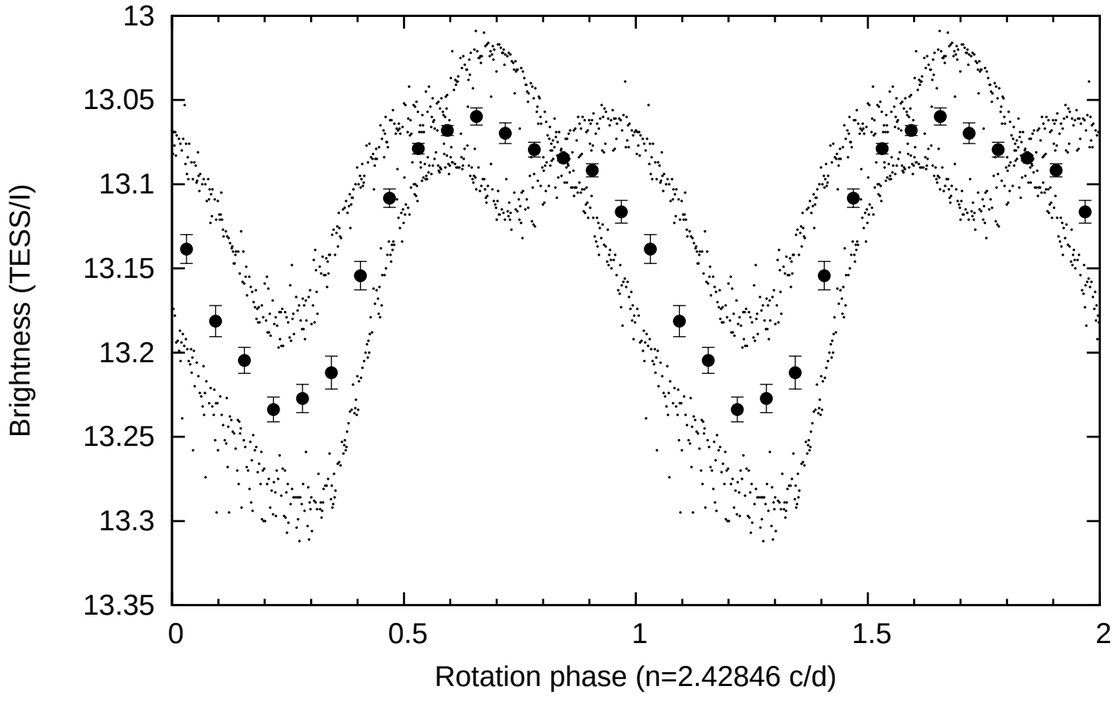

12.82
12.84
12.86
12.88
12.9
12.92
12.94
12.96
12.98
13
13.02
13.04
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=9.29146 c/d)

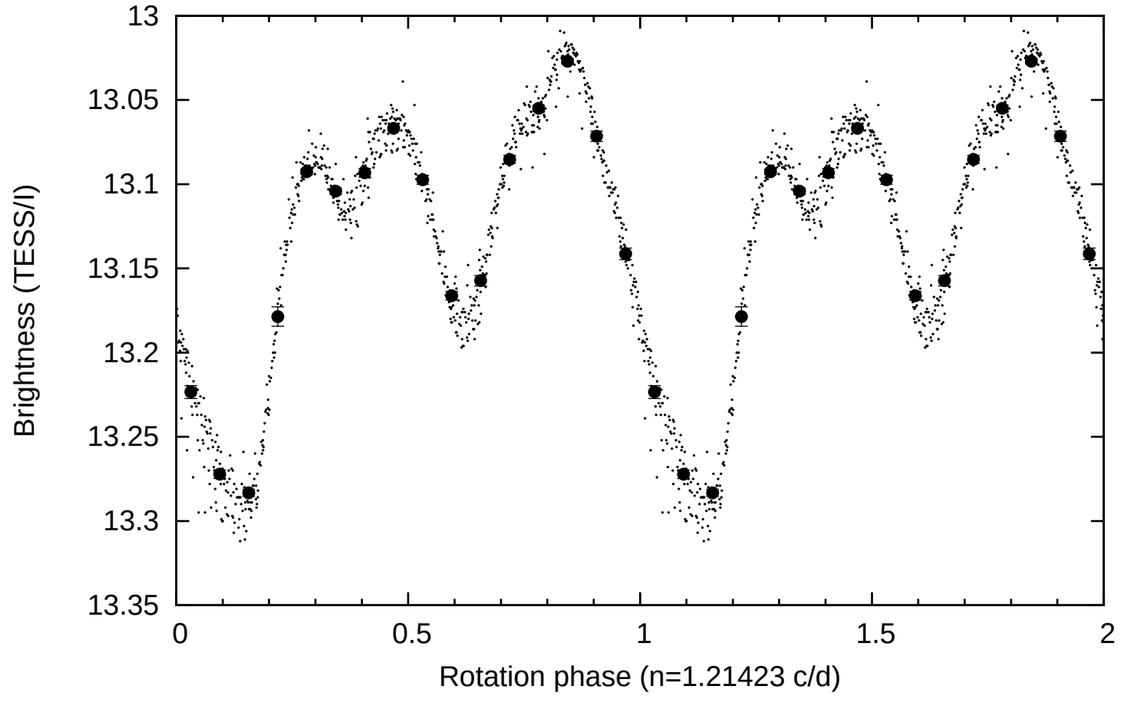

12.82
12.84
12.86
12.88
12.9
12.92
12.94
12.96
12.98
13
13.02
13.04
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=4.64573 c/d)

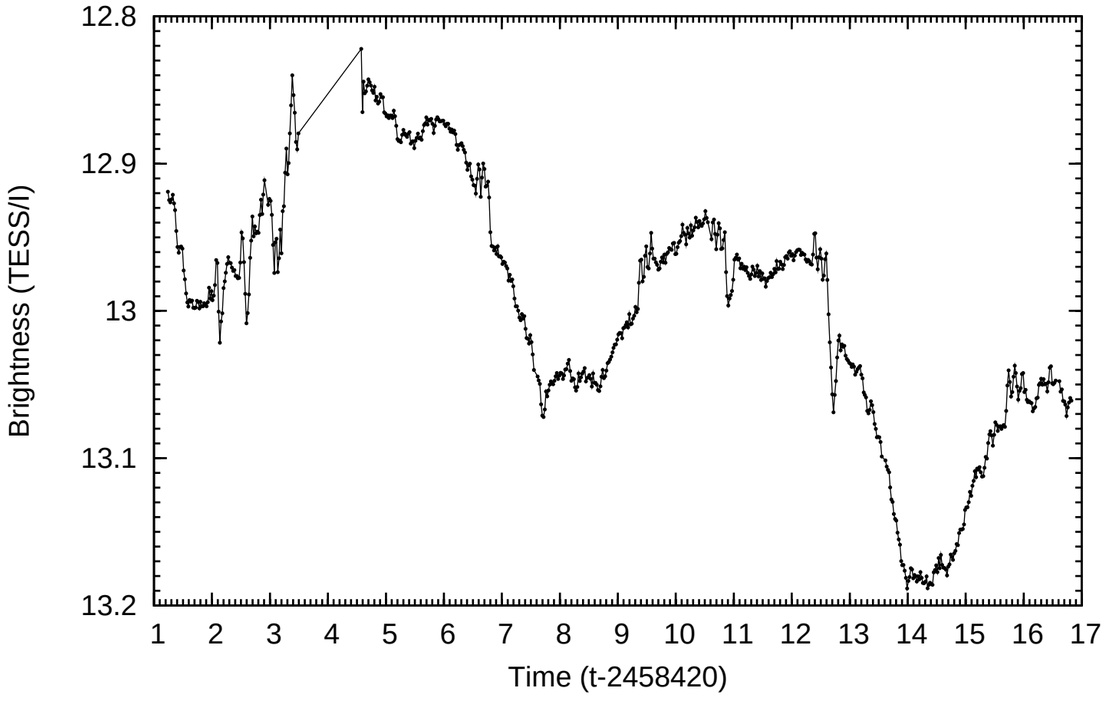

Brightness (TESS/I)
Time (t-2458450)

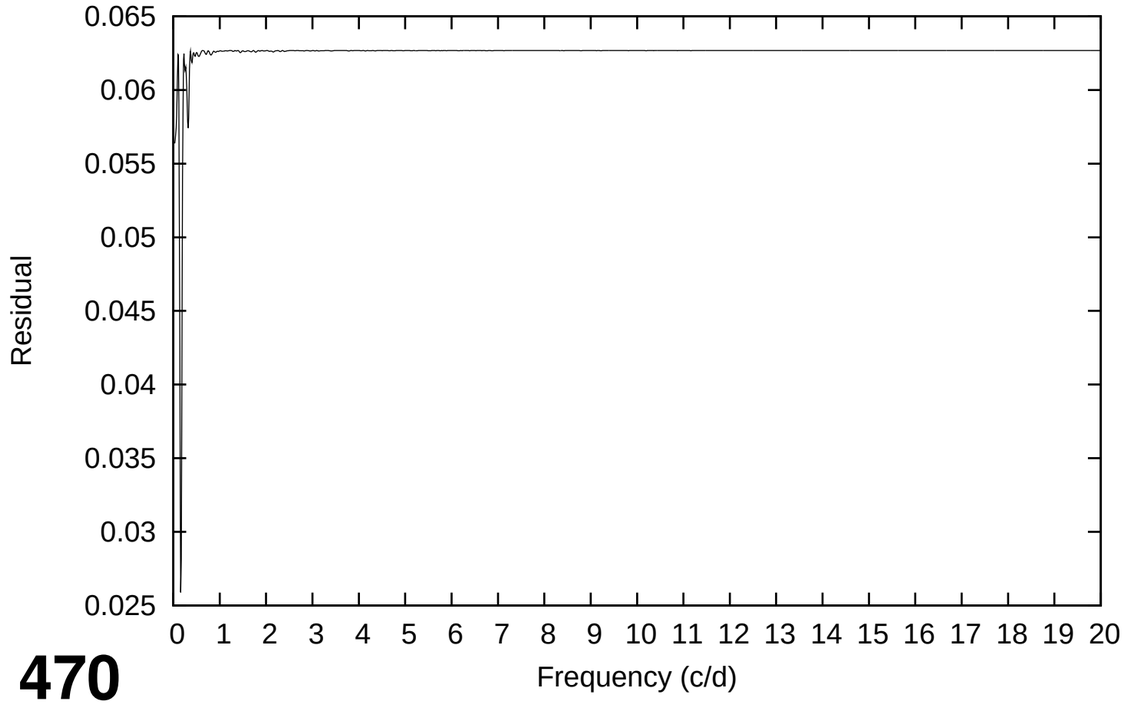
1609

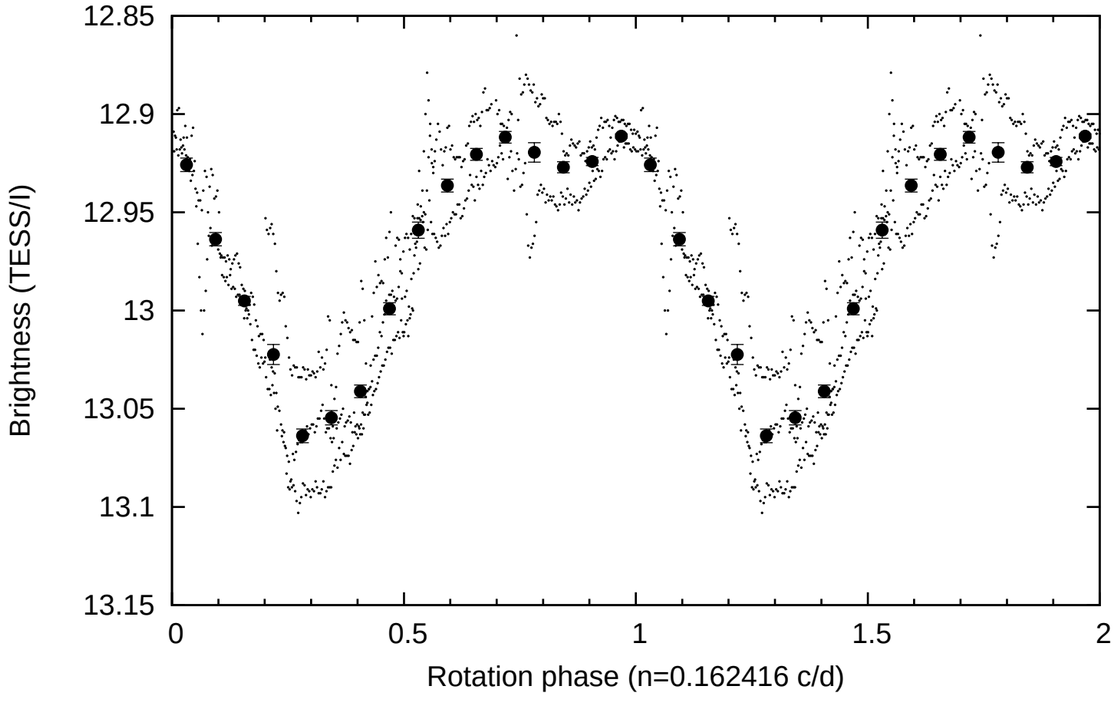

Residual
Frequency (c/d)

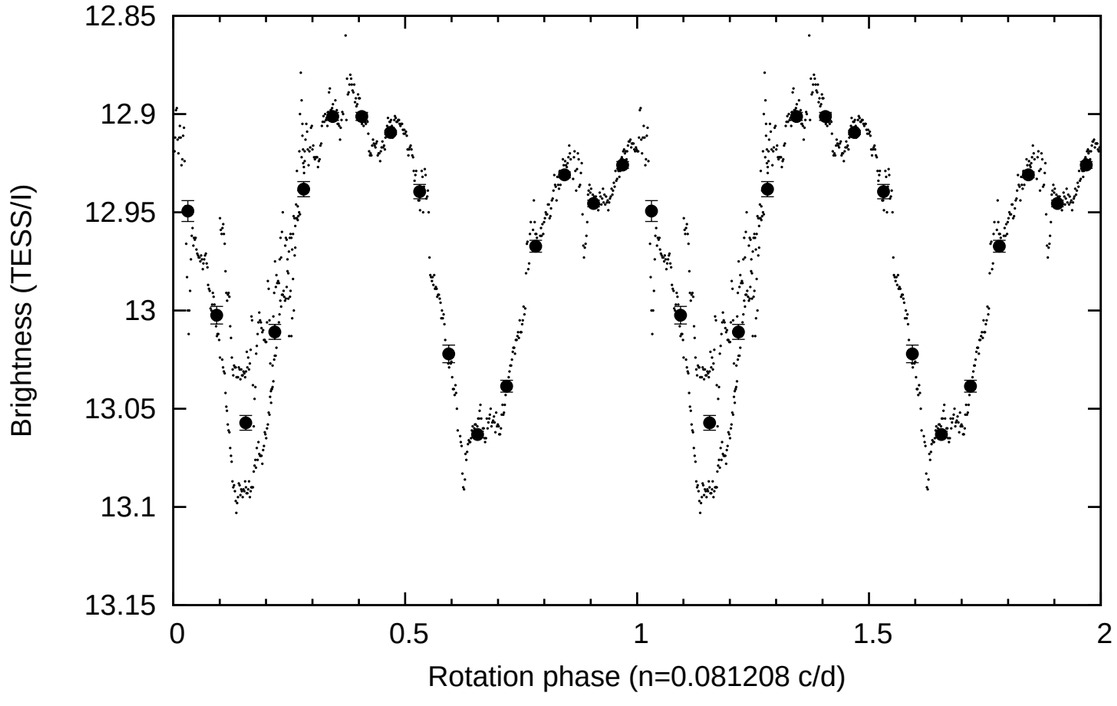

Brightness (TESS/I)
Rotation phase (n=2.42846 c/d)

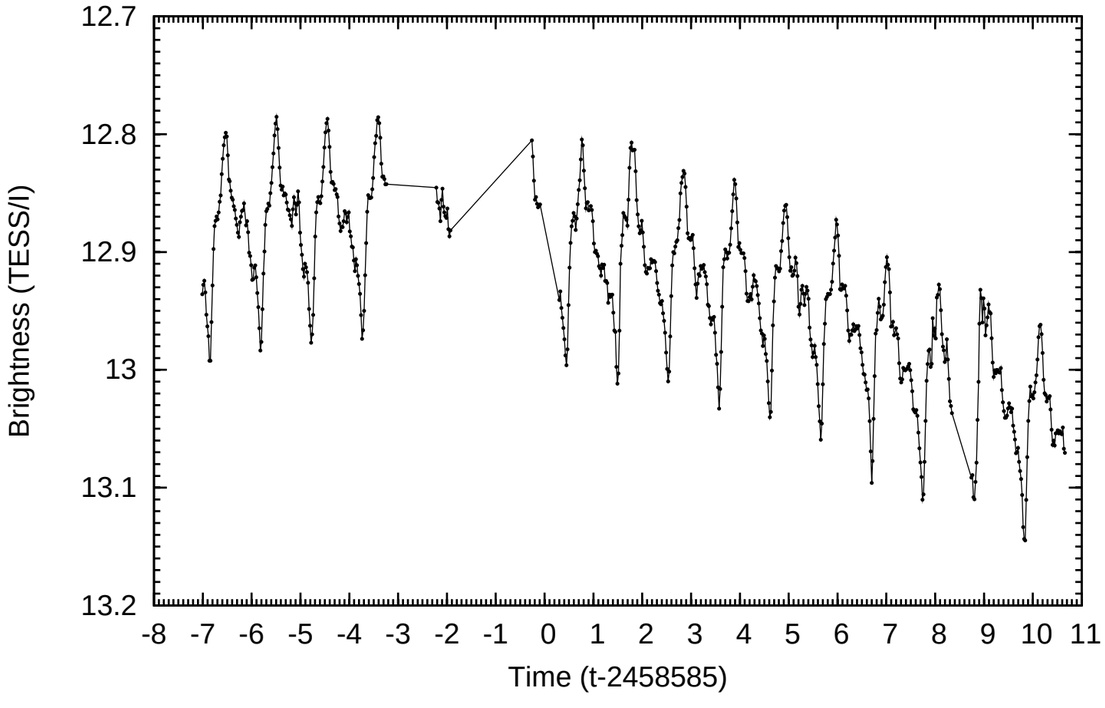

Brightness (TESS/I)
Rotation phase (n=1.21423 c/d)

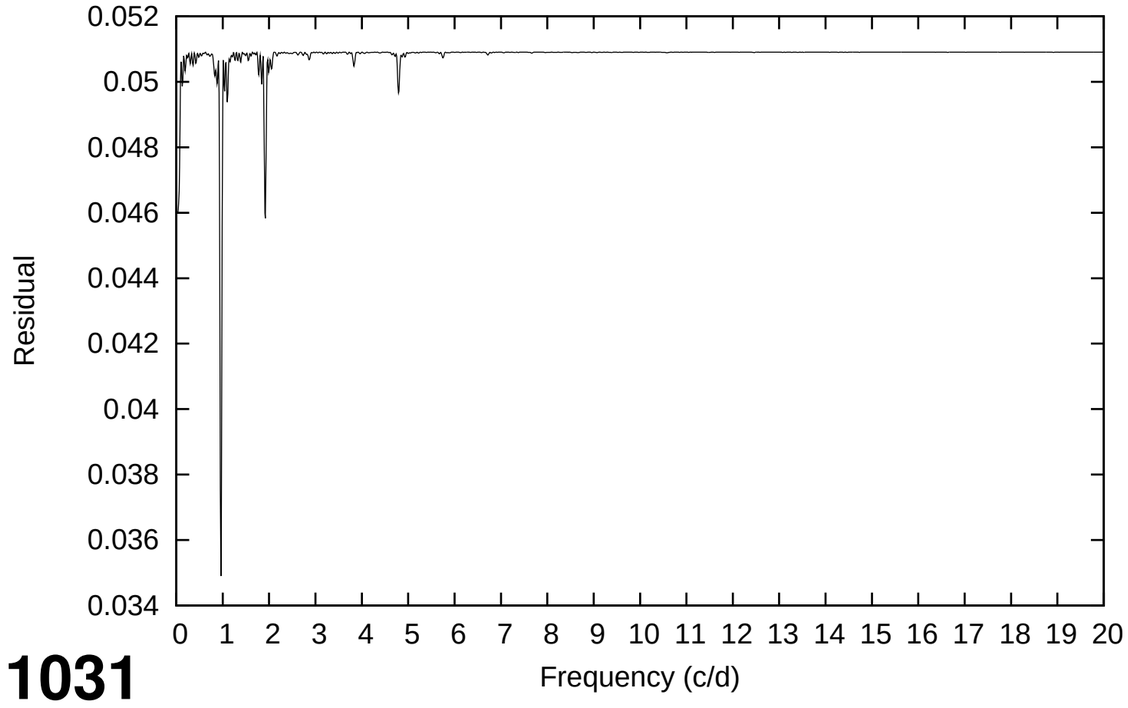

12.8
12.9
13
13.1
13.2
Brightness (TESS/I)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Time (t-2458420)


0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

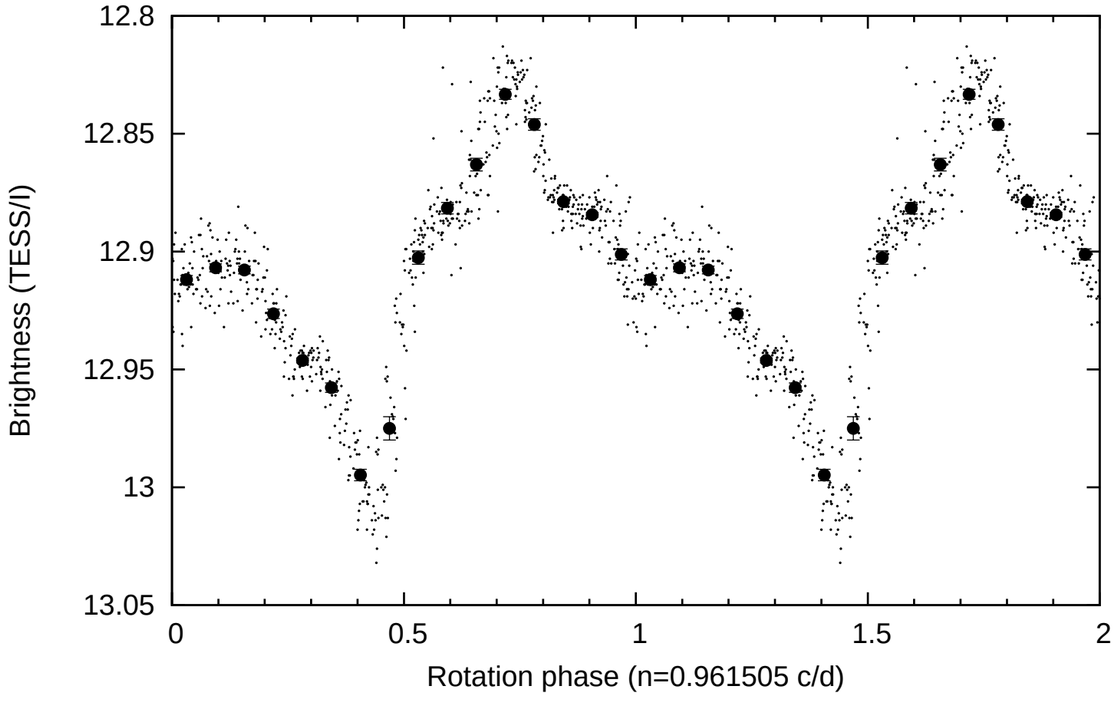

12.85
12.9
12.95
13
13.05
13.1
13.15
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=0.162416 c/d)

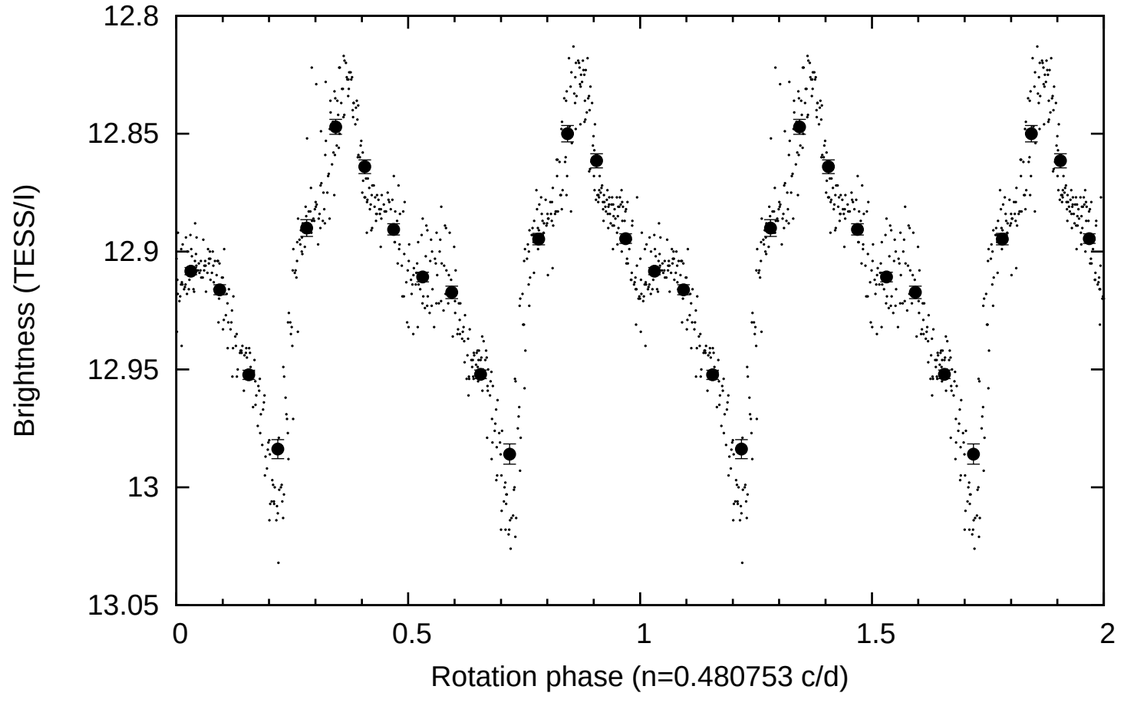

12.85
12.9
12.95
13
13.05
13.1
13.15
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=0.081208 c/d)

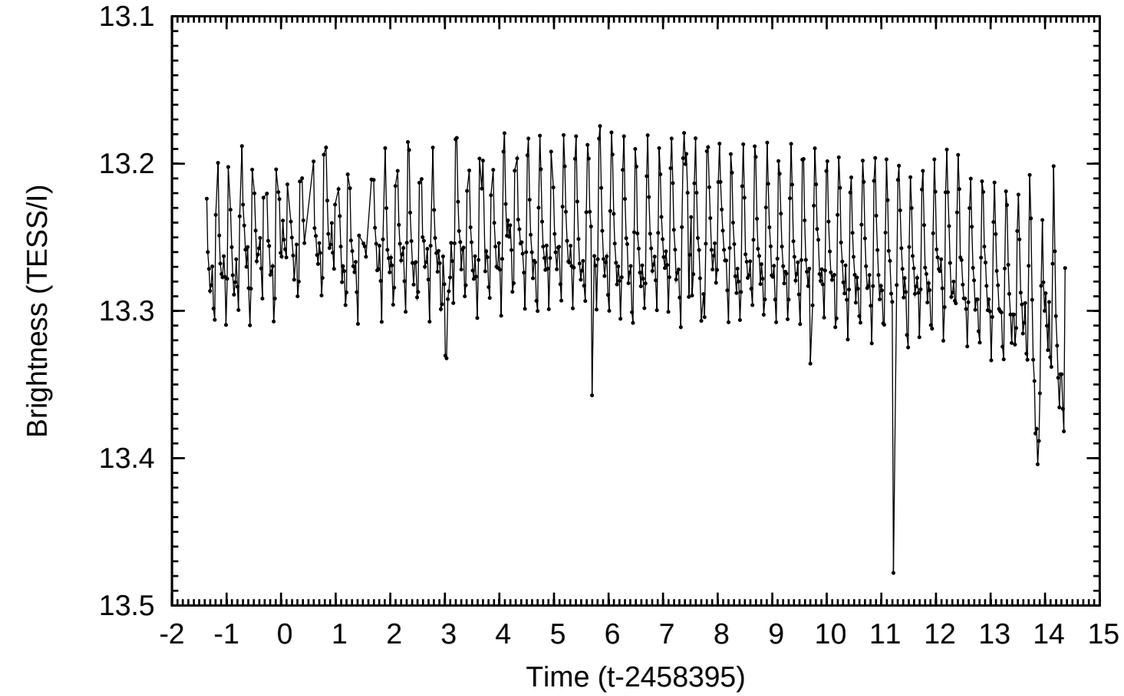

Brightness (TESS/I)
Time (t-2458585)

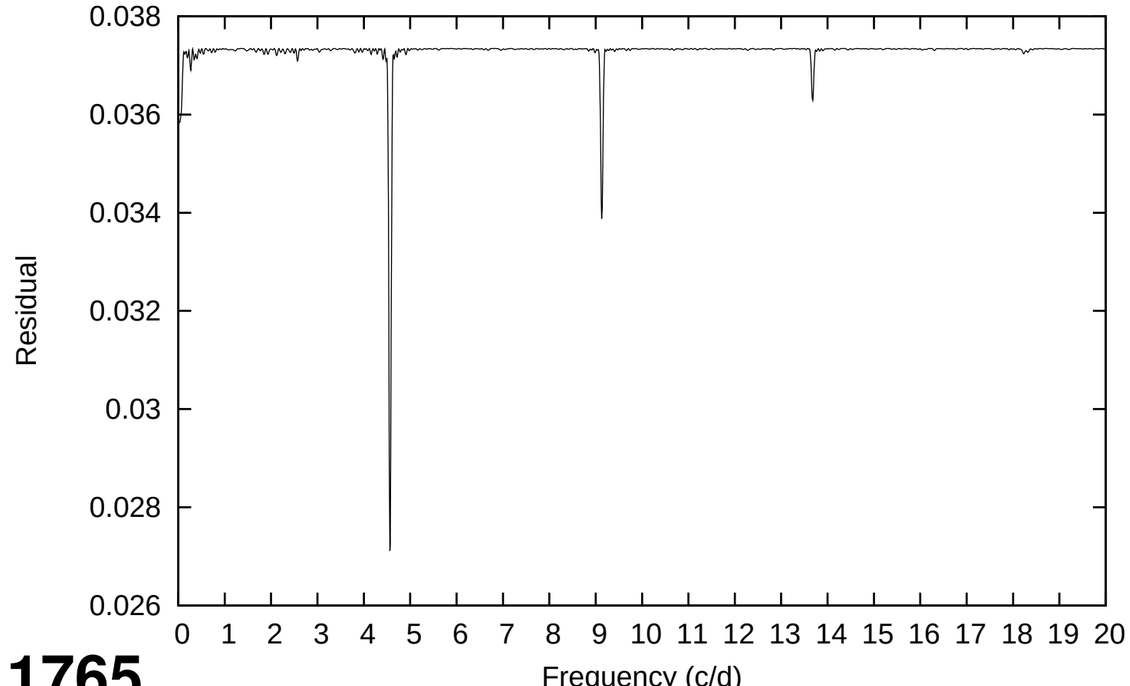

Residual
Frequency (c/d)

1031

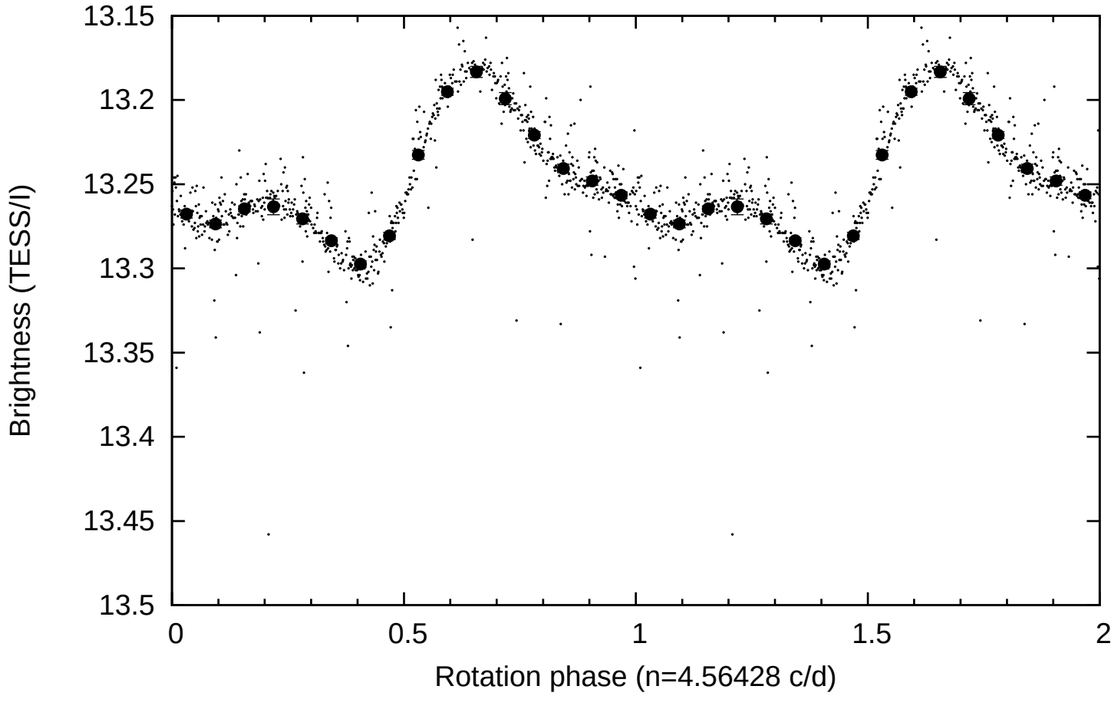

Brightness (TESS/I)
Rotation phase (n=0.961505 c/d)

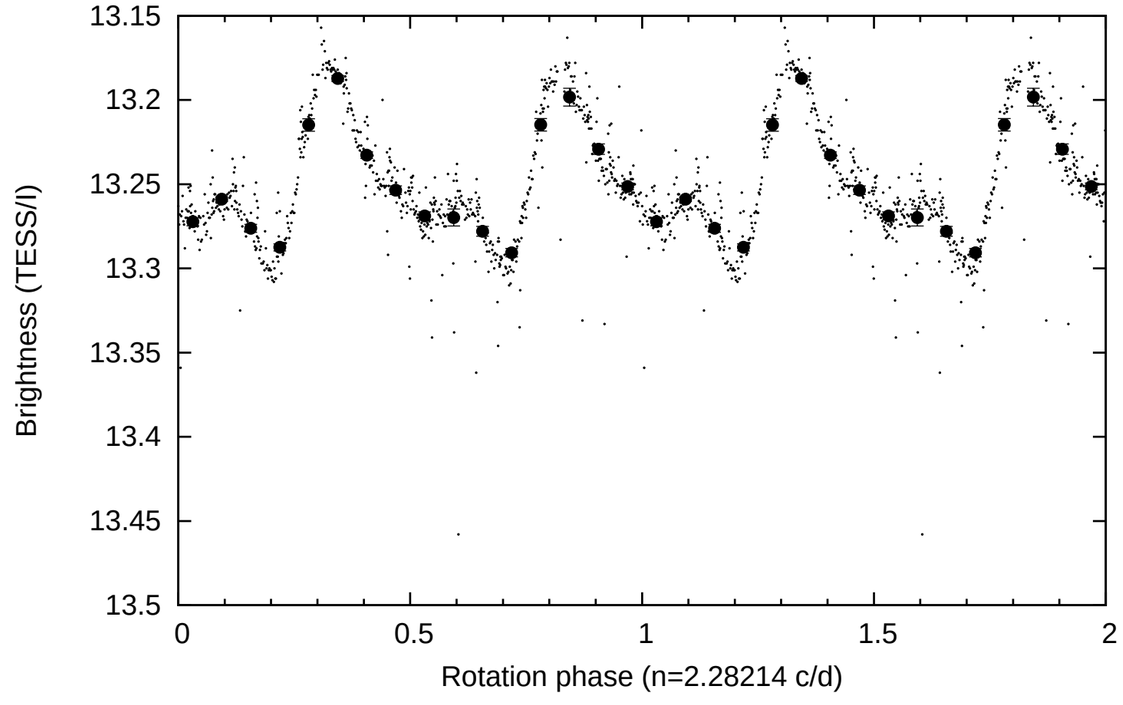

Brightness (TESS/I)
Rotation phase (n=0.480753 c/d)

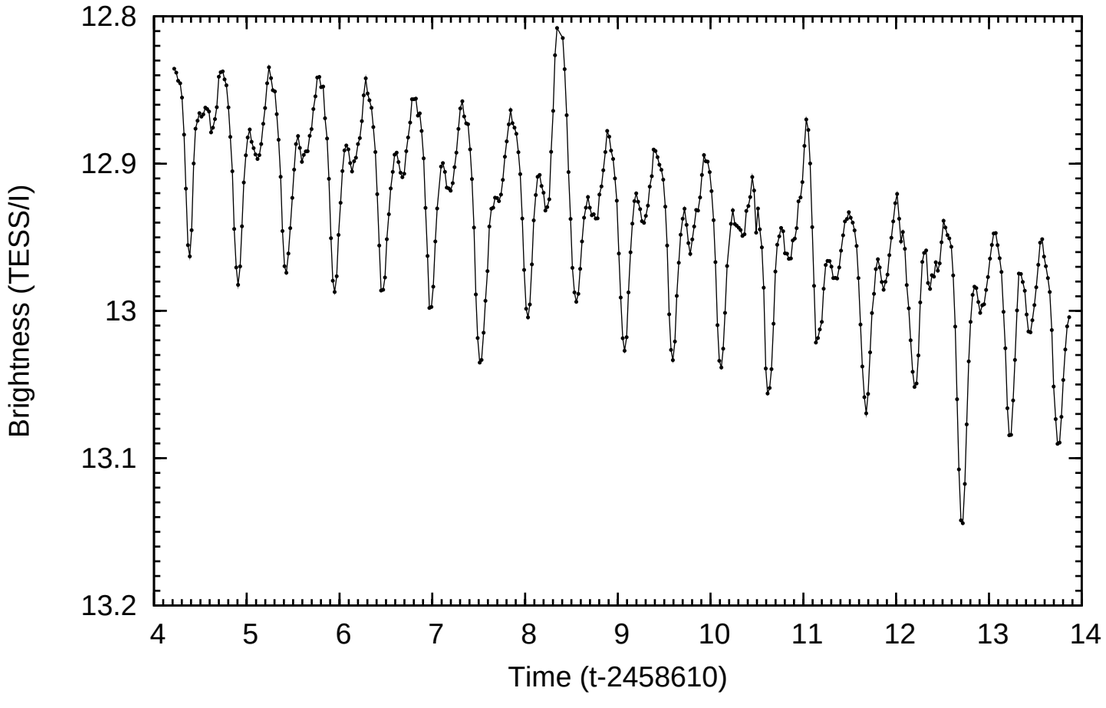

Brightness (TESS/I)
Time (t-2458395)

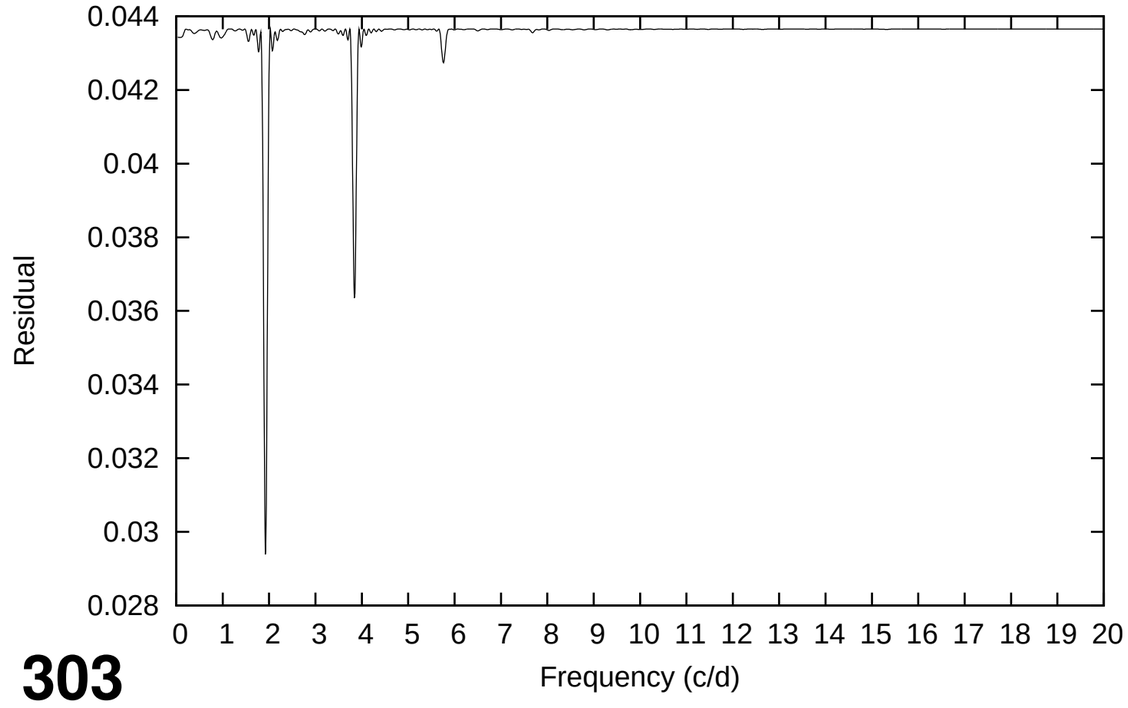

Residual
Frequency (c/d)

1765

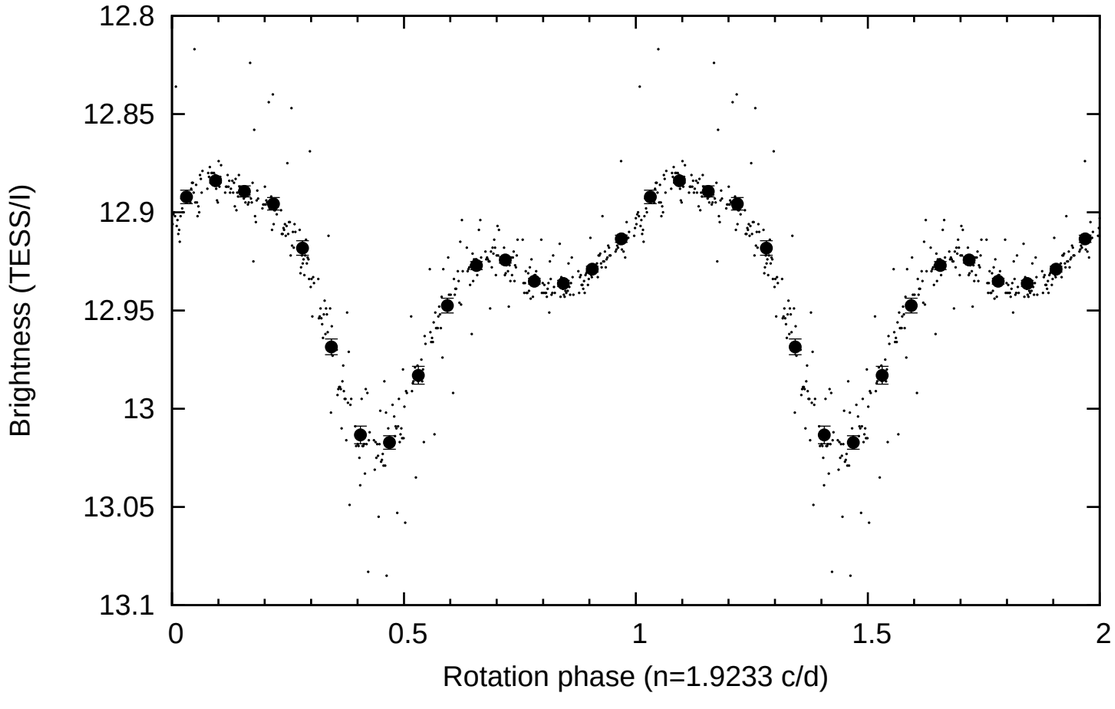

Brightness (TESS/I)
Rotation phase (n=4.56428 c/d)

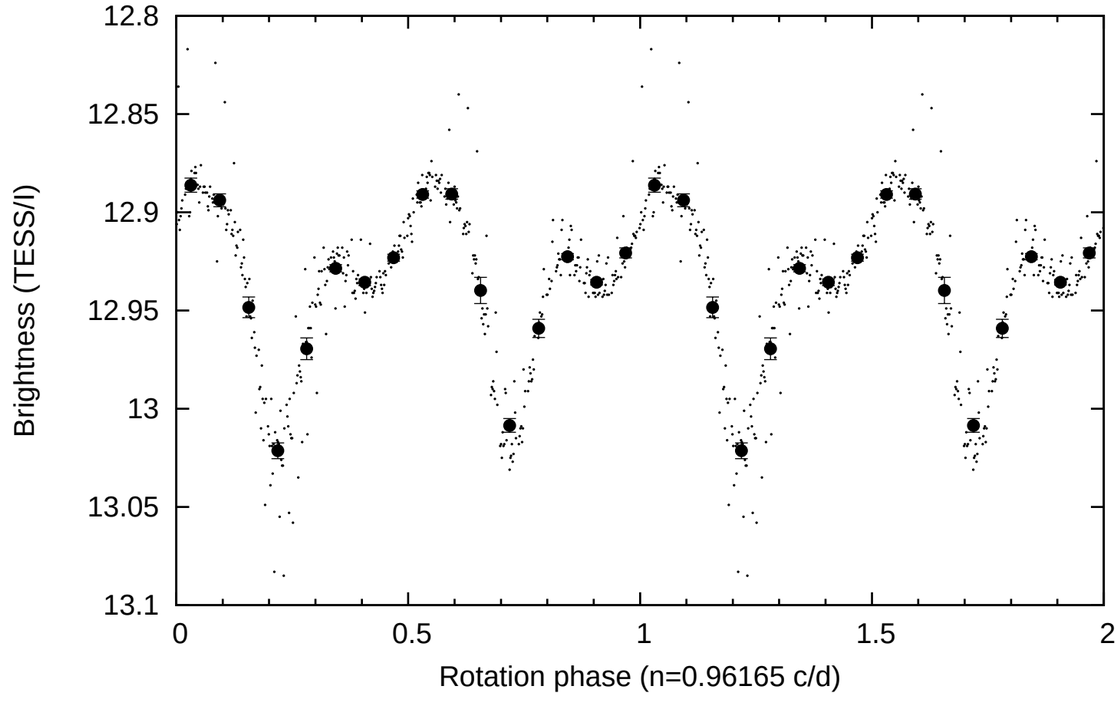

Brightness (TESS/I)
Rotation phase (n=2.28214 c/d)

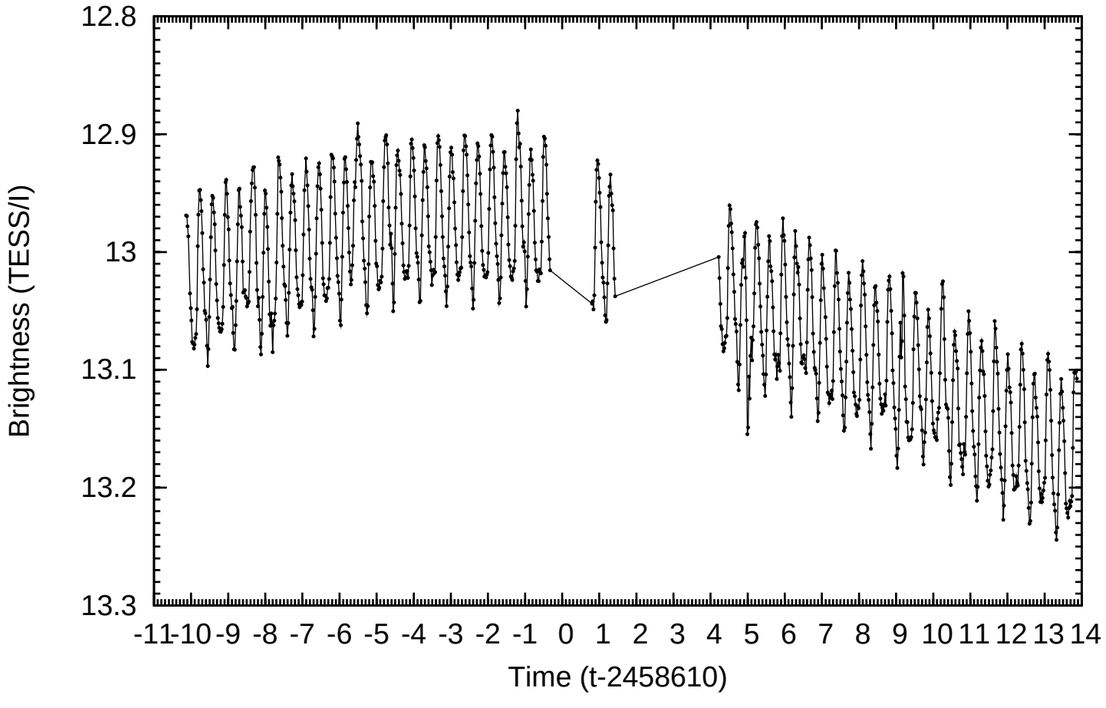

Brightness (TESS/I)
Time (t-2458610)

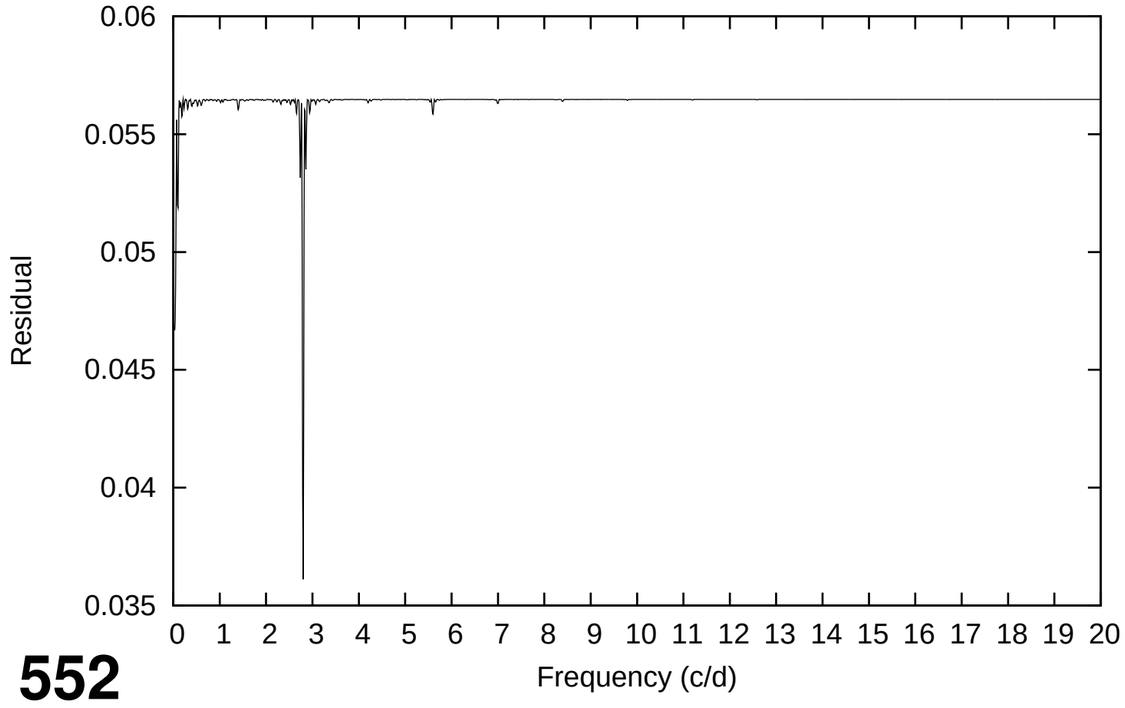

Residual
Frequency (c/d)

303

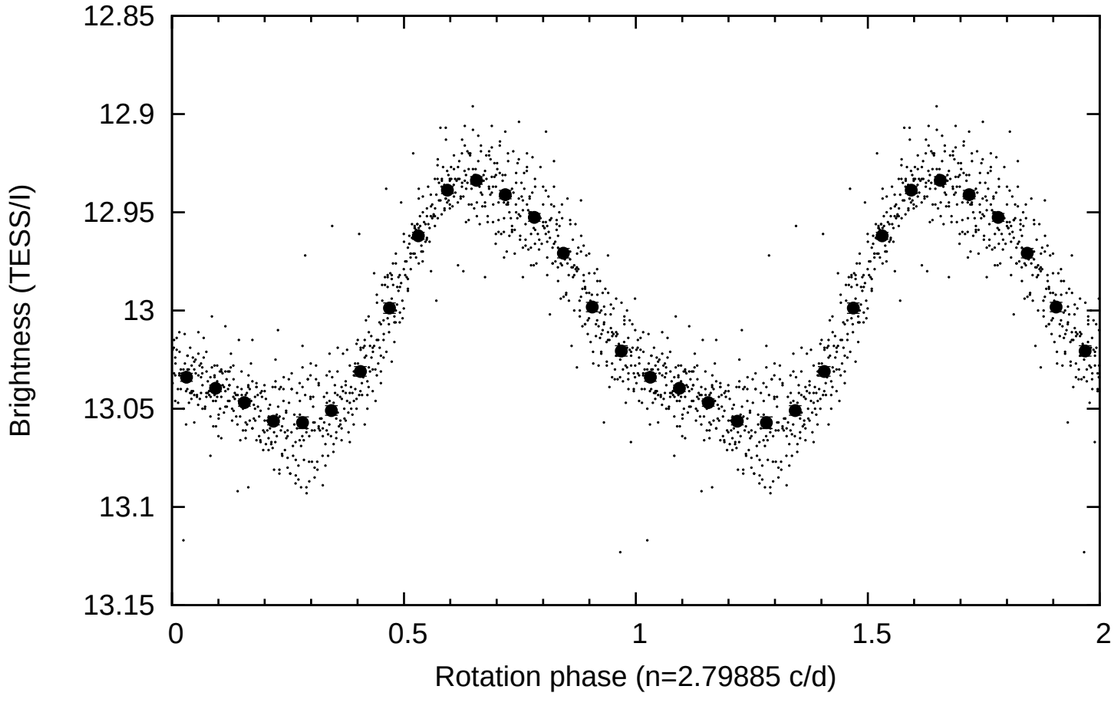

Brightness (TESS/I)
Rotation phase (n=1.9233 c/d)

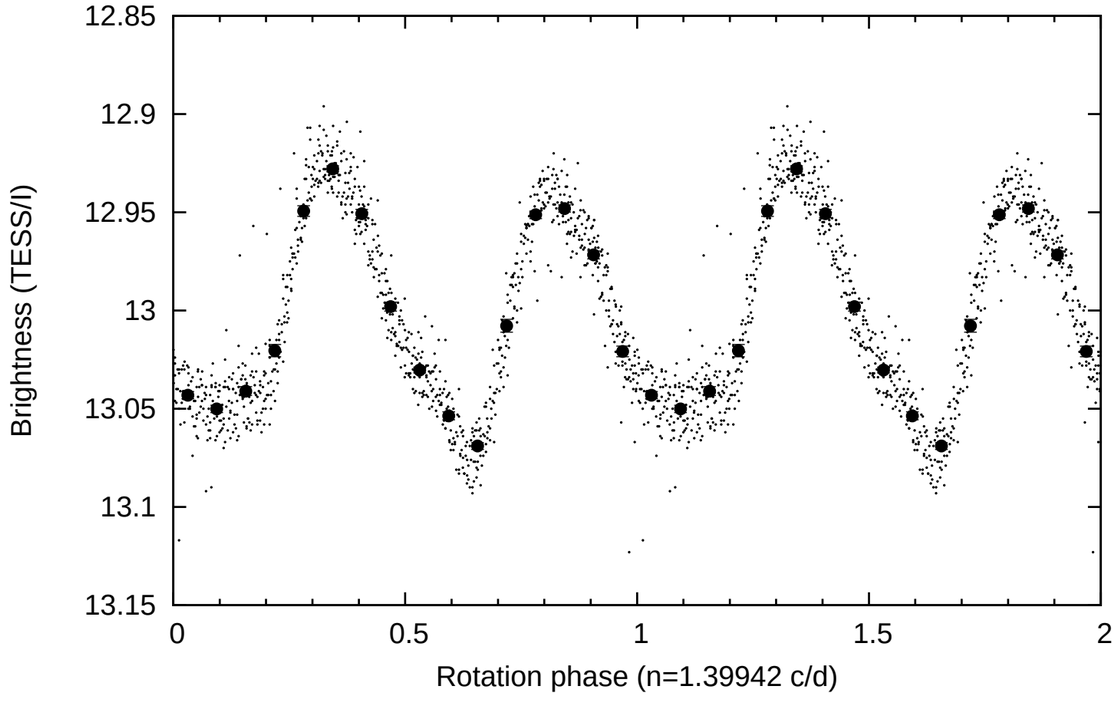

Brightness (TESS/I)
Rotation phase (n=0.96165 c/d)

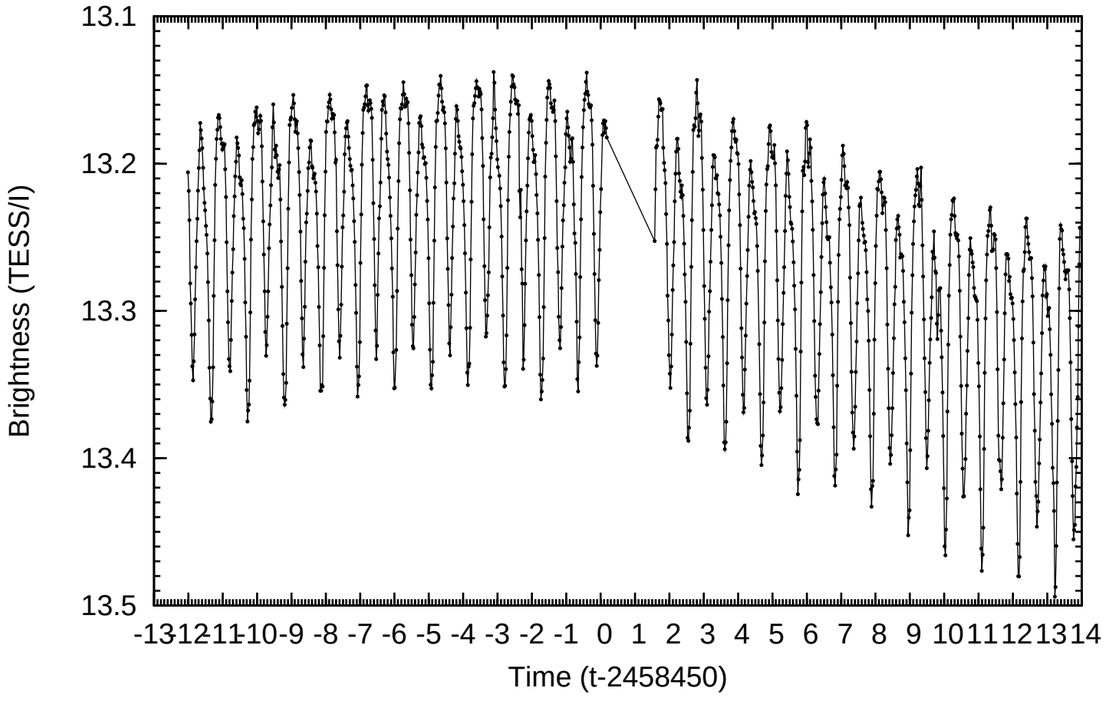

Brightness (TESS/I)
Time (t-2458610)

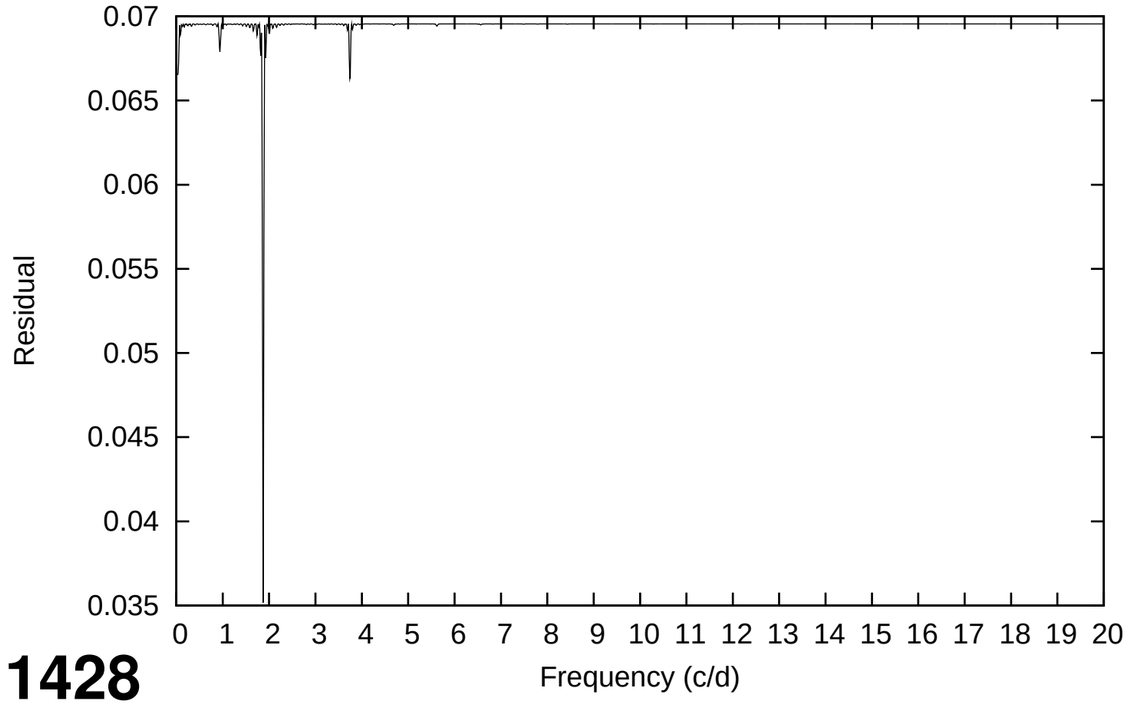

Residual
Frequency (c/d)

552

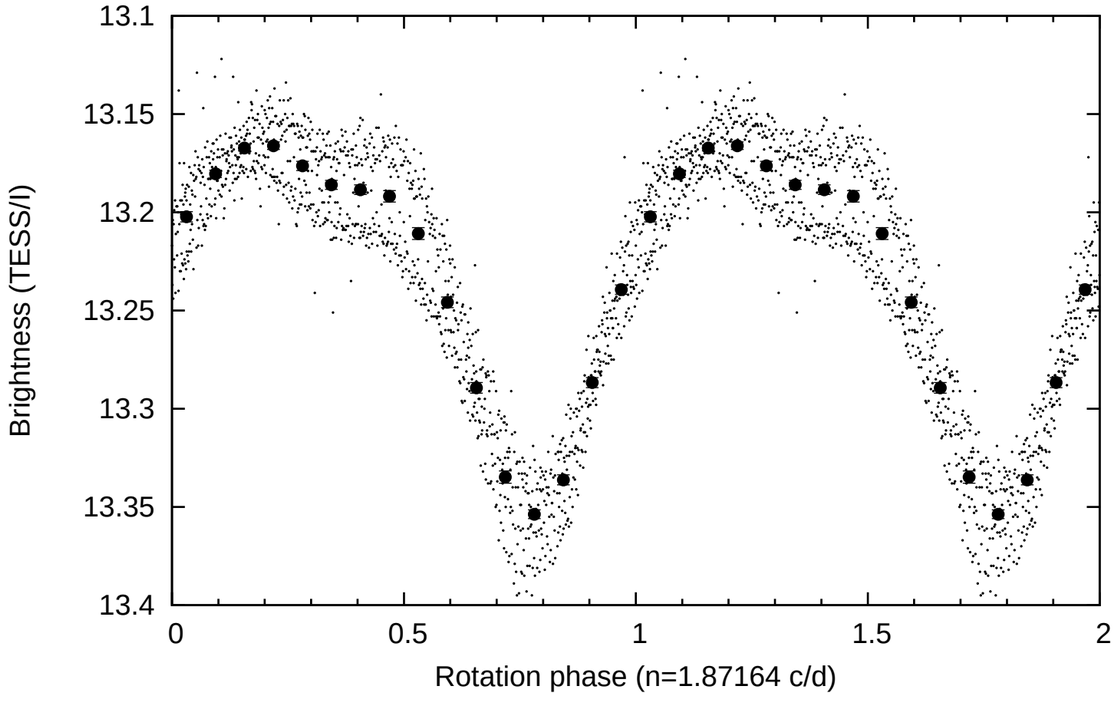

Brightness (TESS/I)
Rotation phase (n=2.79885 c/d)

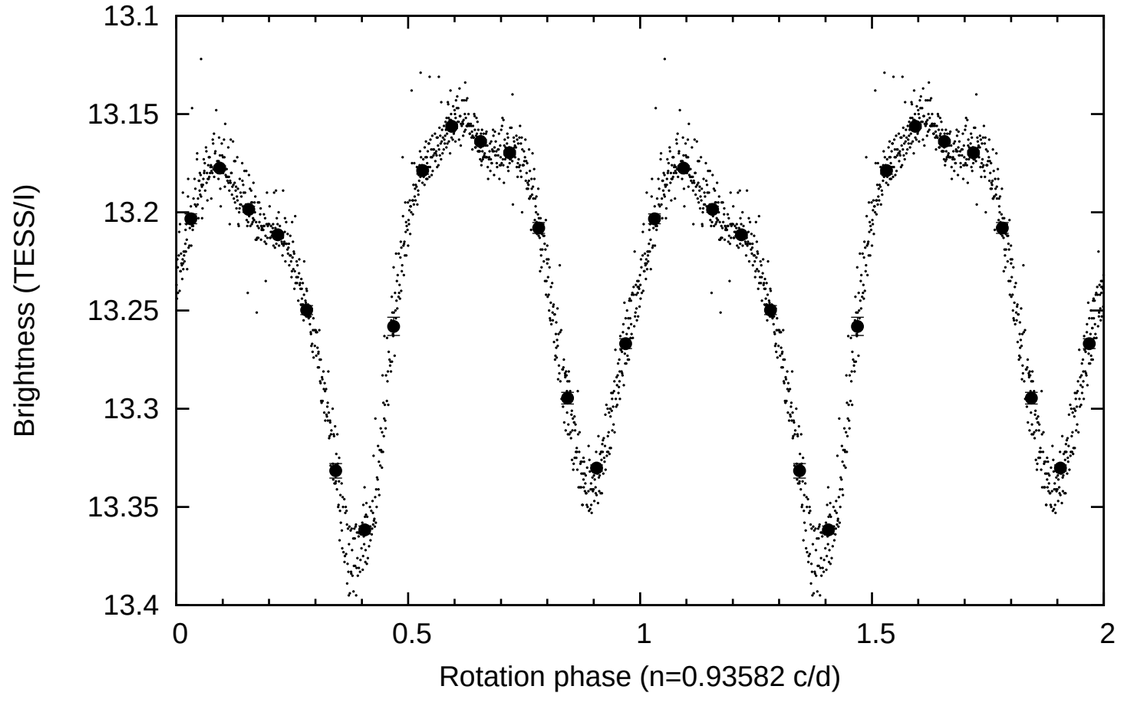

Brightness (TESS/I)
Rotation phase (n=1.39942 c/d)


Brightness (TESS/I)
Time (t-2458450)

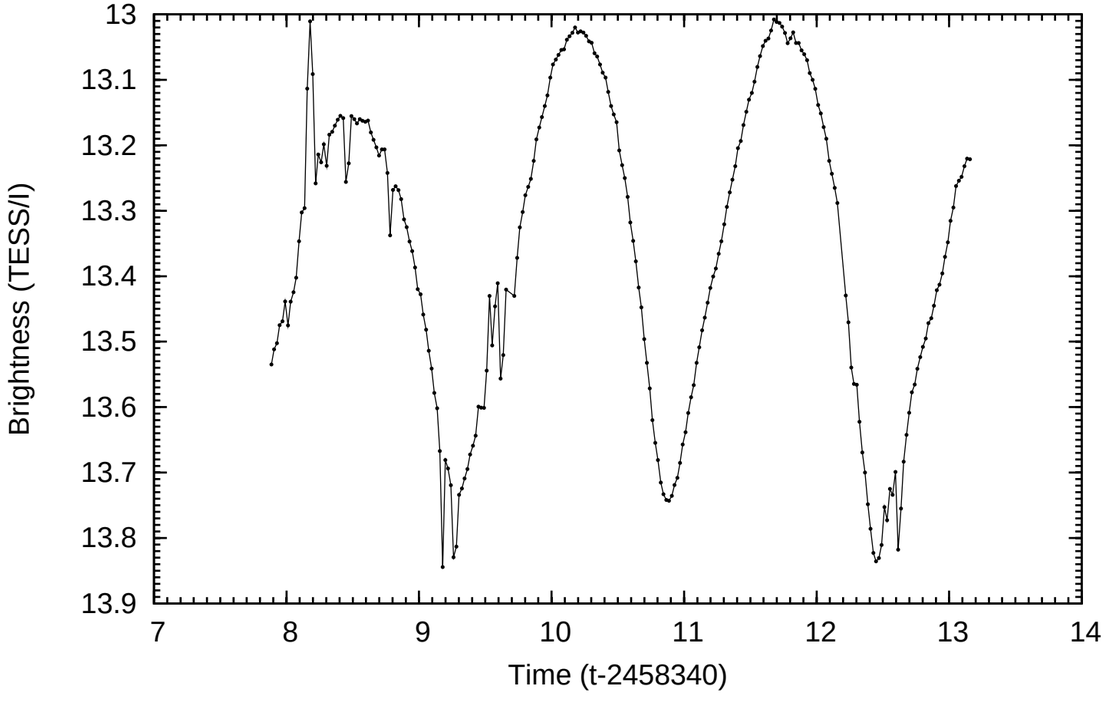

Residual
Frequency (c/d)

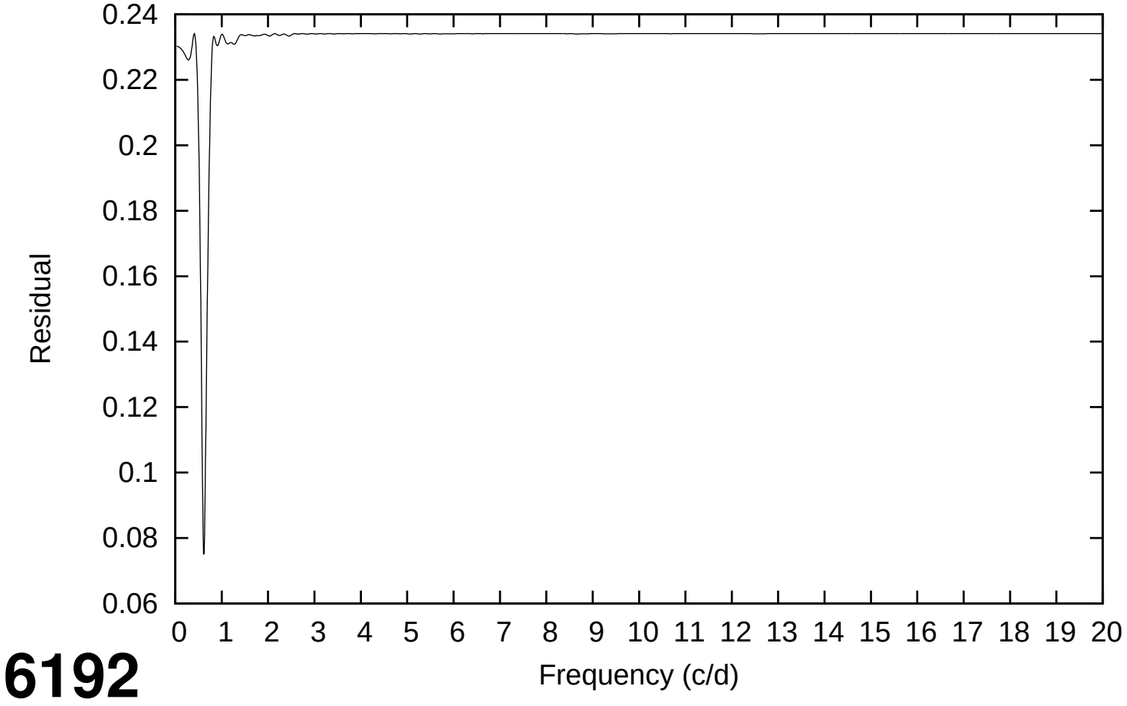
1428

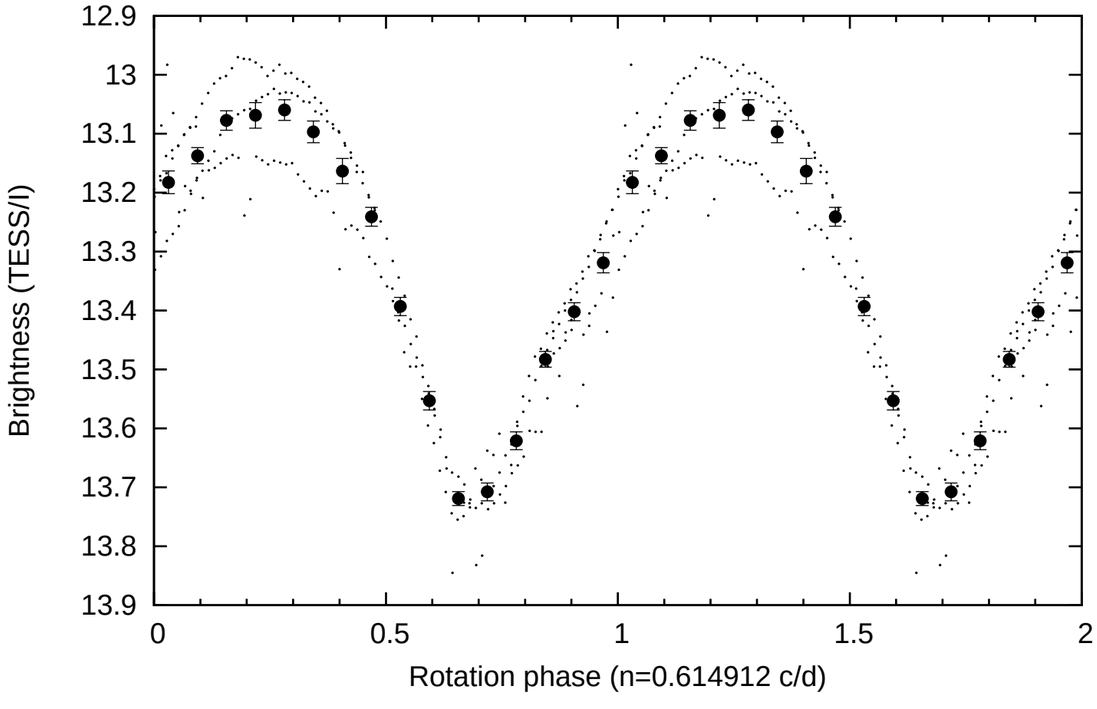

Brightness (TESS/I)
Rotation phase (n=1.87164 c/d)

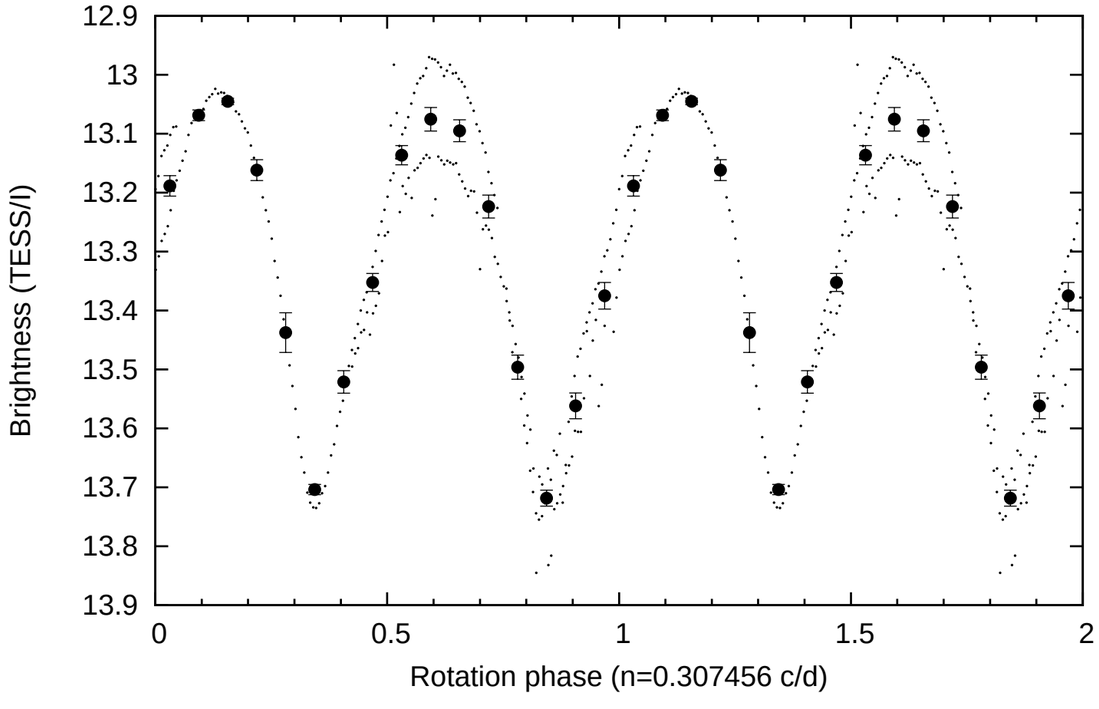

Brightness (TESS/I)
Rotation phase (n=0.93582 c/d)

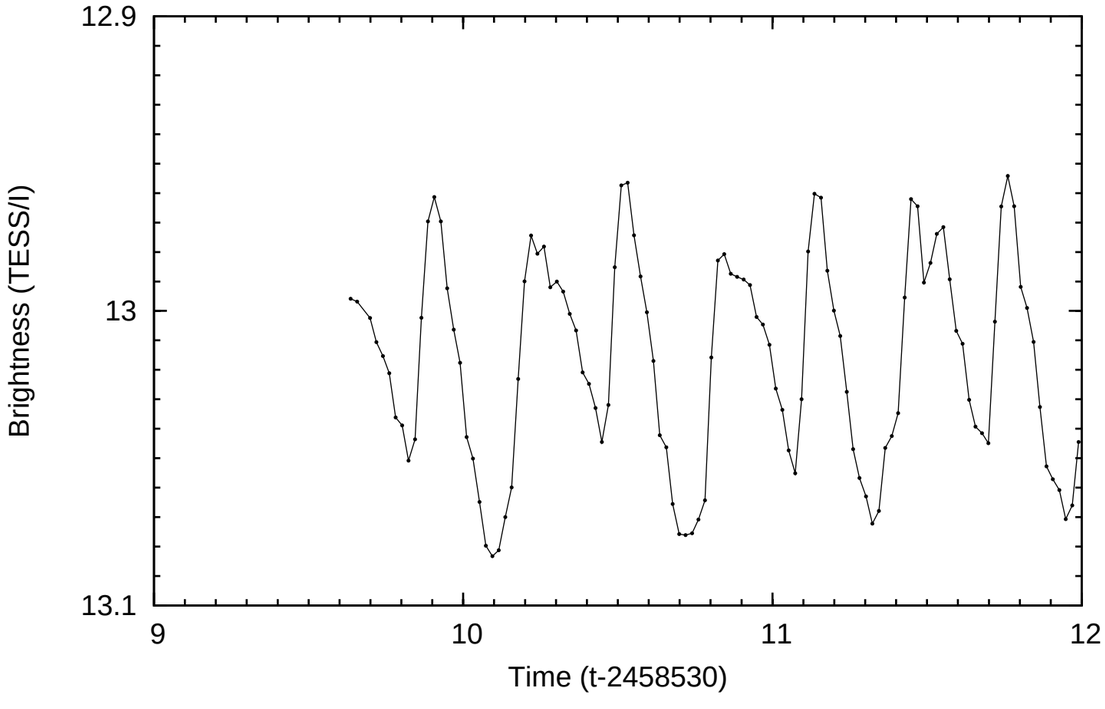
6192

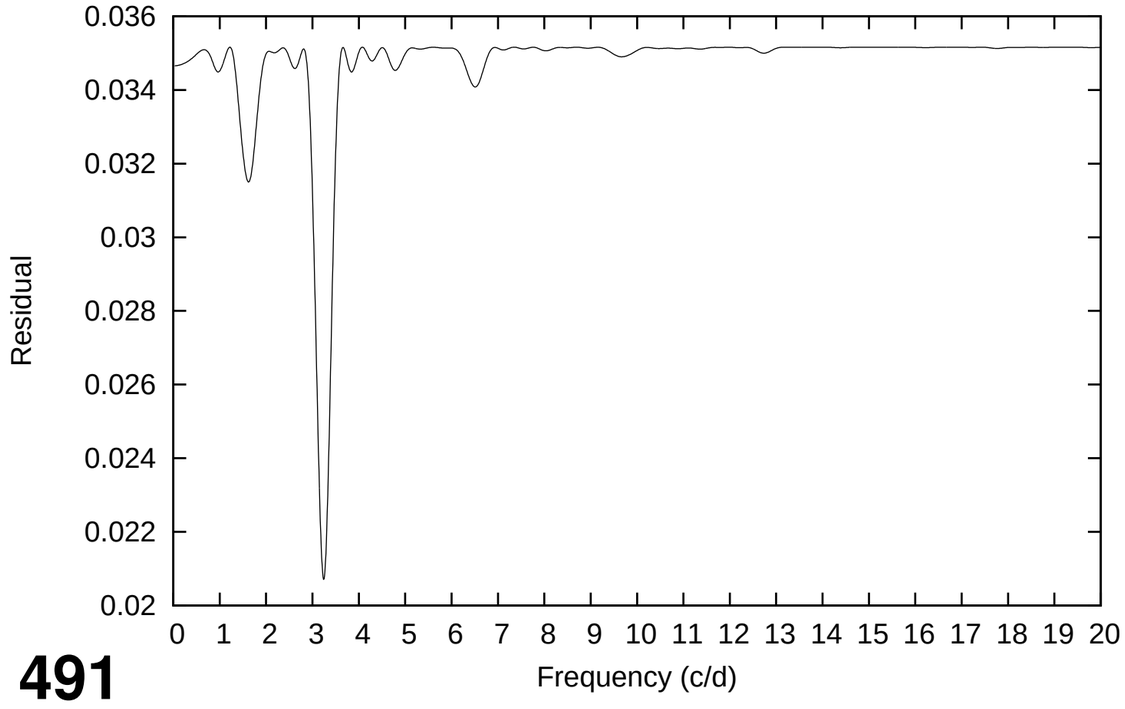

Brightness (TESS/I)
Time (t-2458340)


Residual
Frequency (c/d)

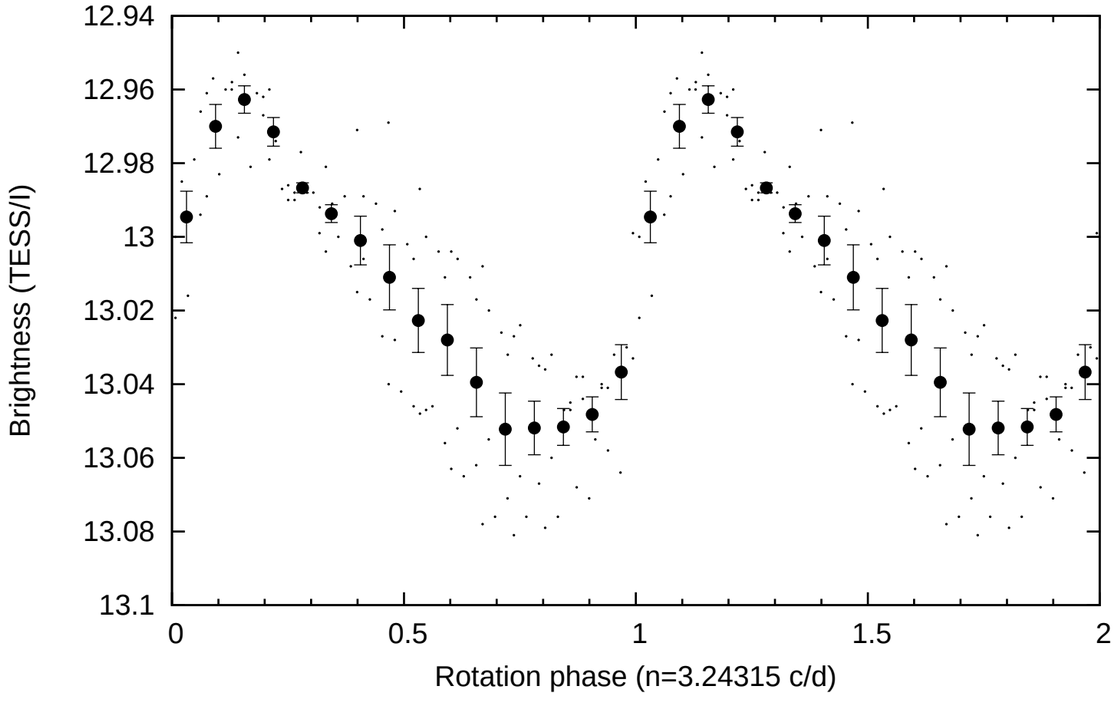

Brightness (TESS/I)
Rotation phase (n=0.614912 c/d)

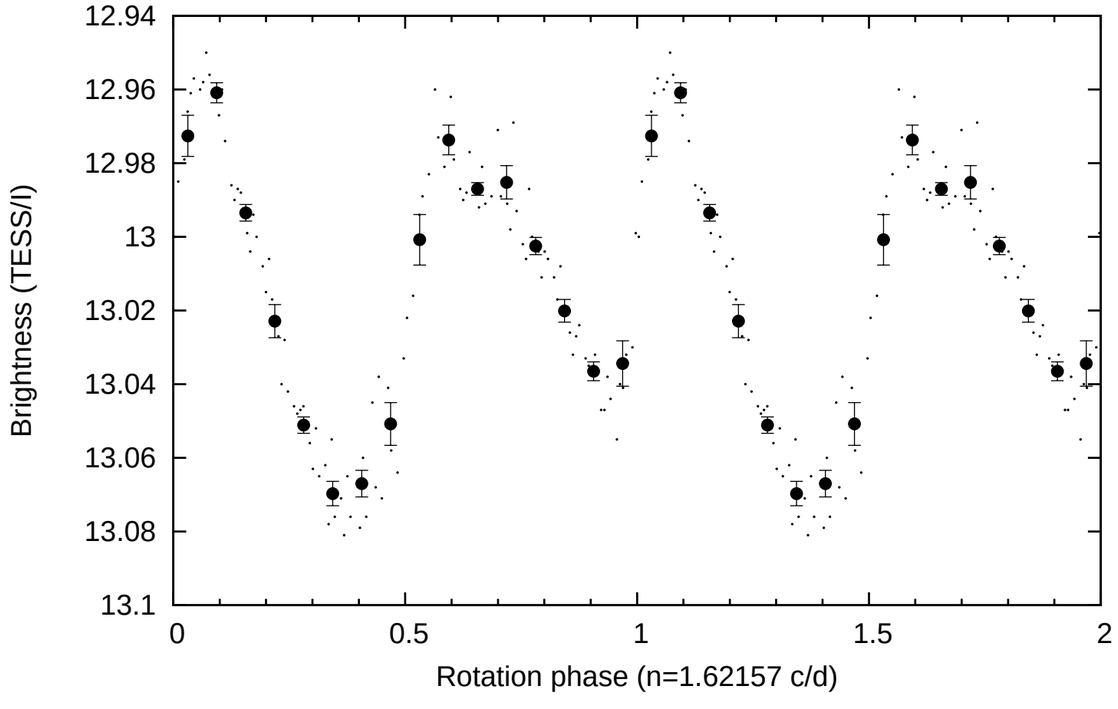

Brightness (TESS/I)
Rotation phase (n=0.307456 c/d)

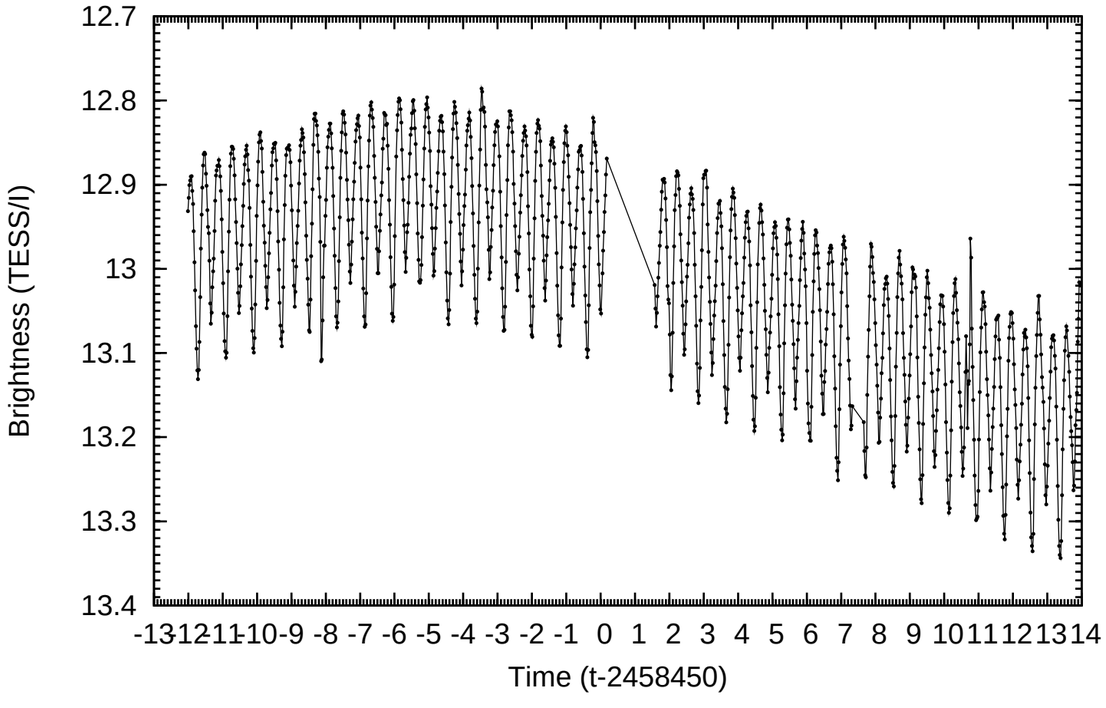

12.9
13
13.1
9
10
11
12
Brightness (TESS/I)
Time (t-2458530)

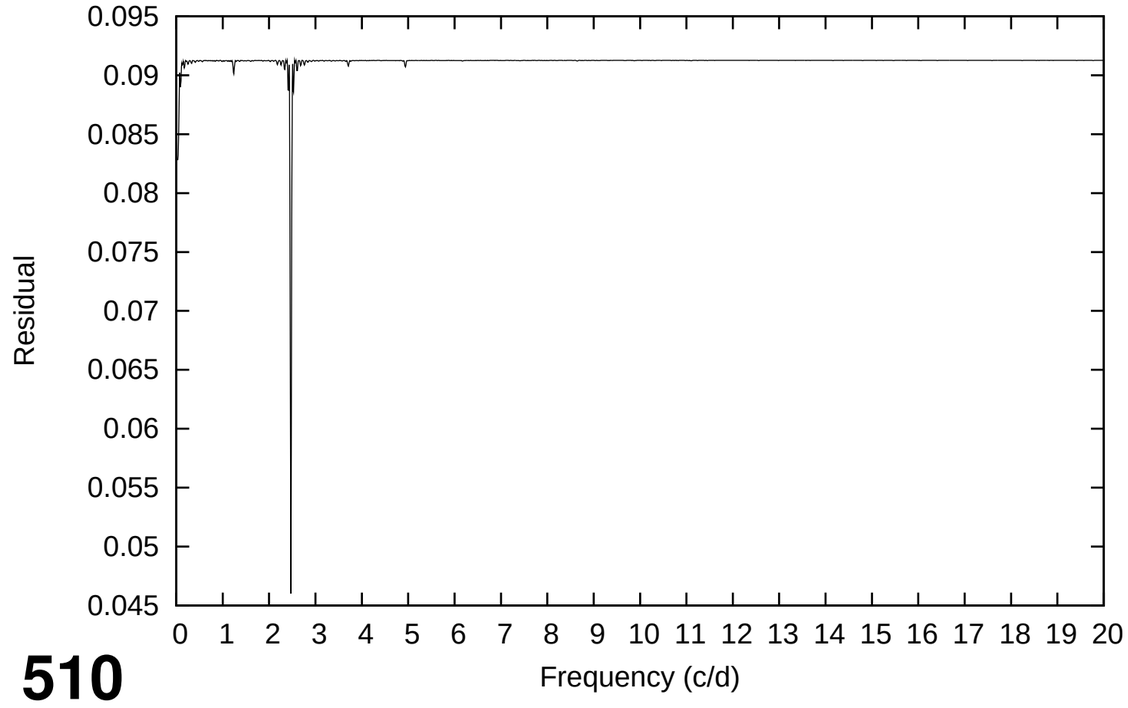

0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Residual
Frequency (c/d)

491

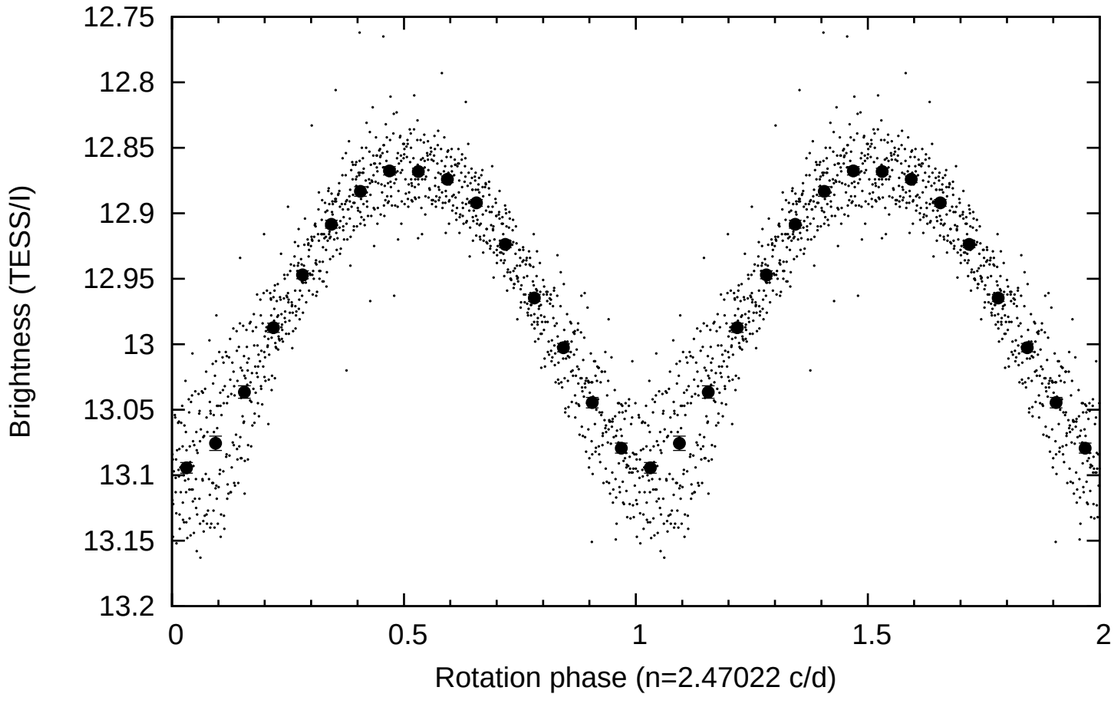

12.94
12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
0
0.5
1
1.5
2
Brightness (TESS/I)
Rotation phase (n=3.24315 c/d)

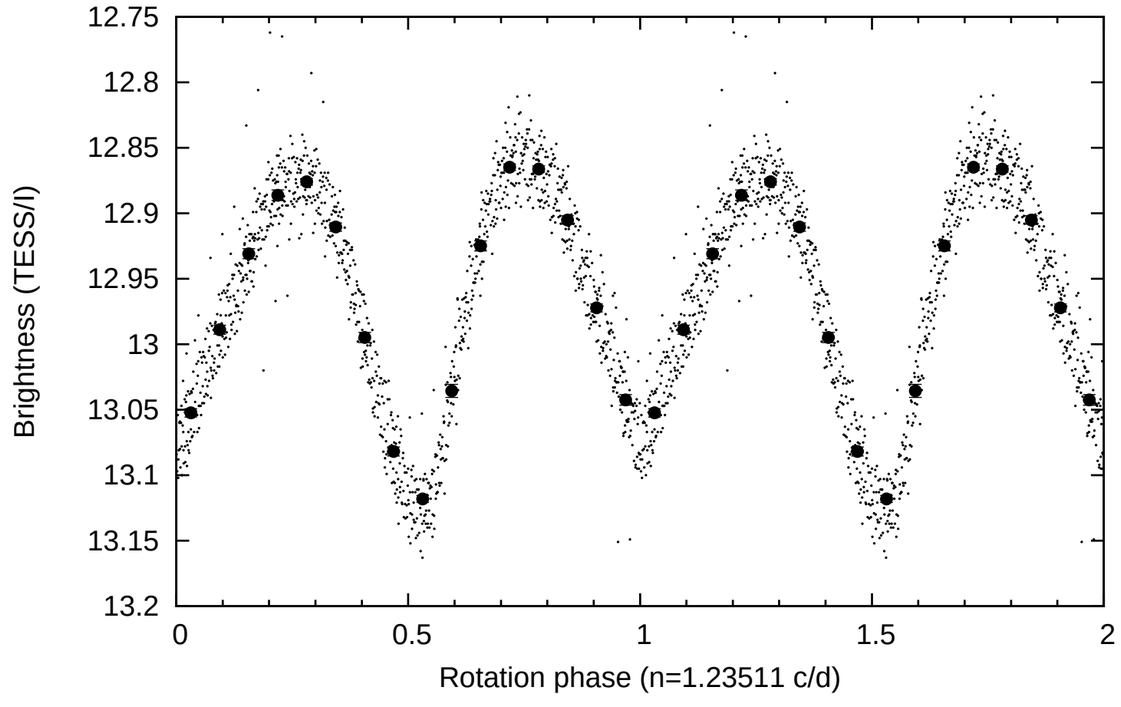

12.94
12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
0
0.5
1
1.5
2
Brightness (TESS/I)
Rotation phase (n=1.62157 c/d)

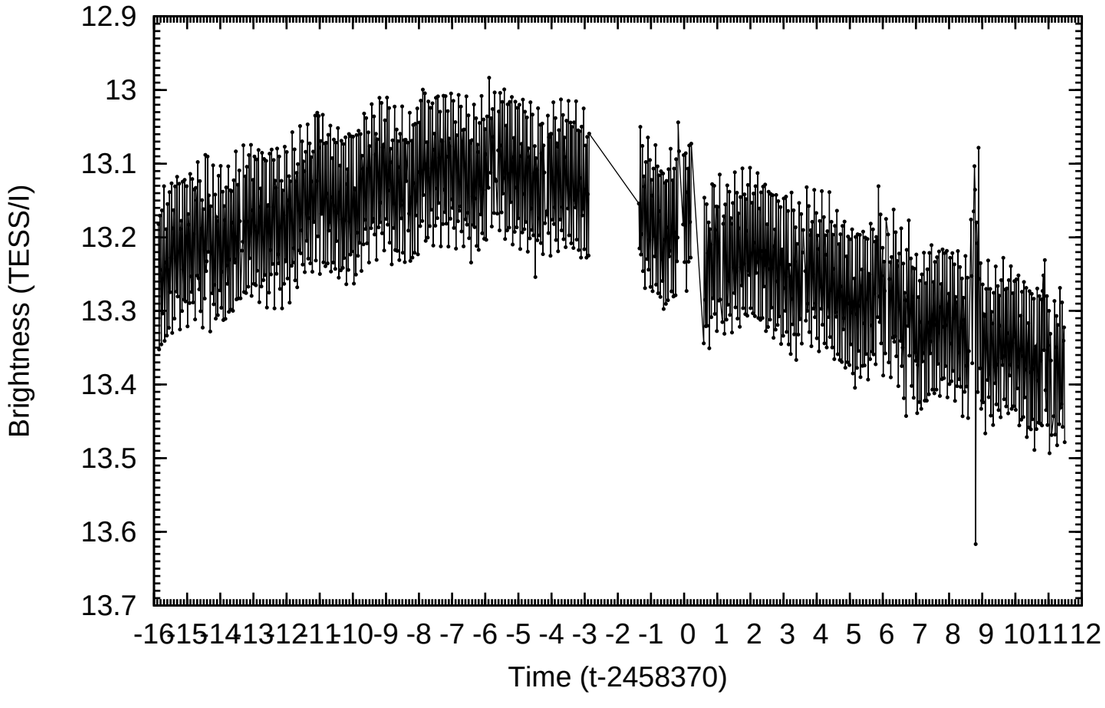

Brightness (TESS/I)
Time (t-2458450)

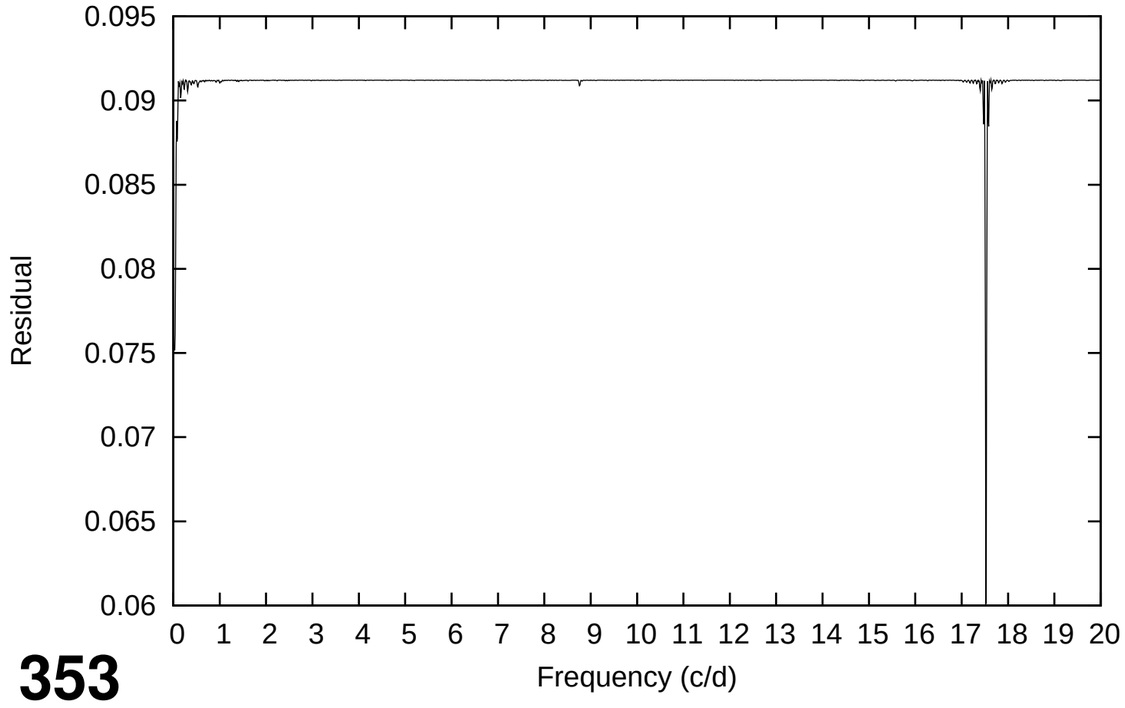

Residual
Frequency (c/d)

510

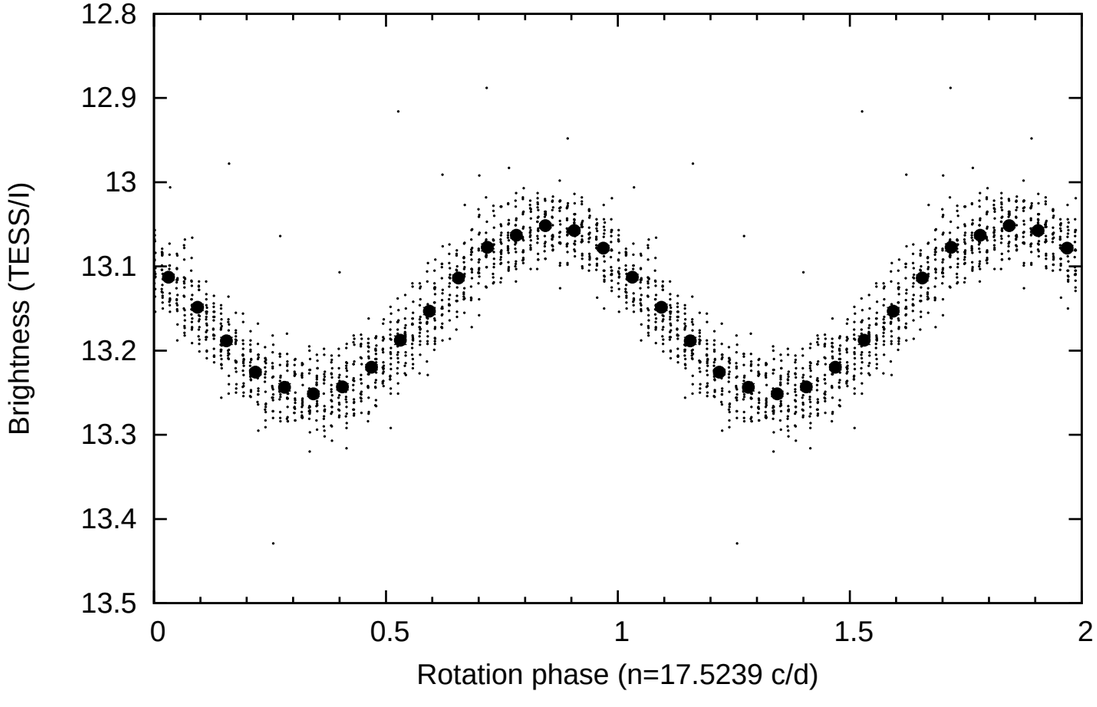

Brightness (TESS/I)
Rotation phase (n=2.47022 c/d)

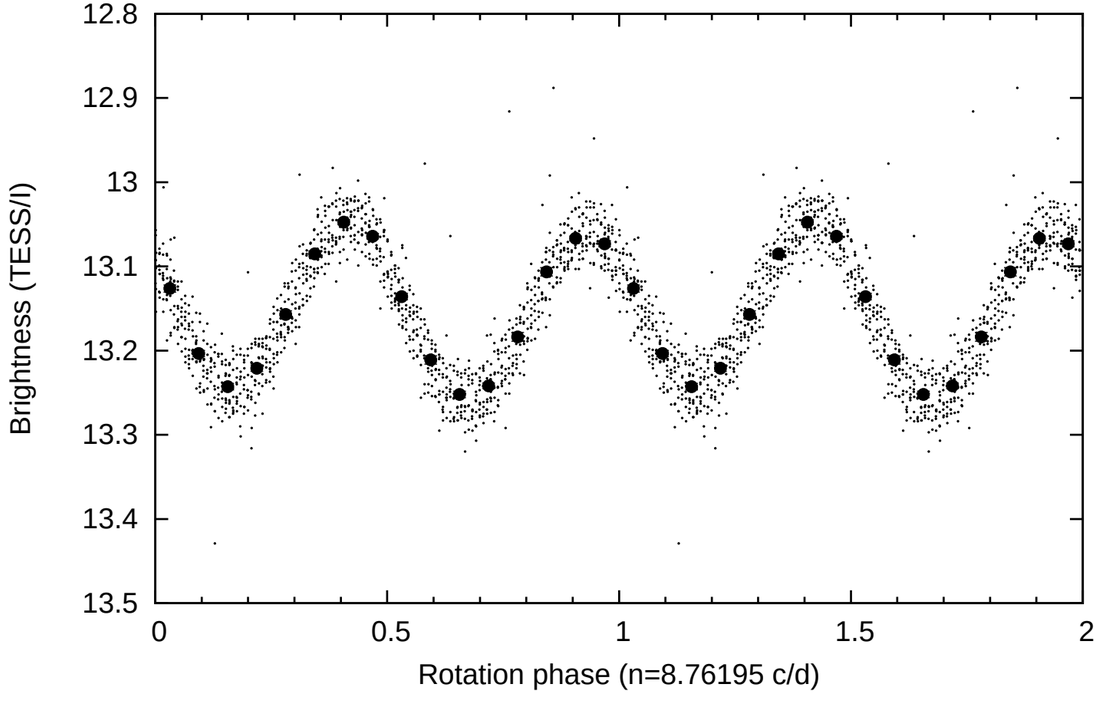

Brightness (TESS/I)
Rotation phase (n=1.23511 c/d)


Brightness (TESS/I)
Time (t-2458370)

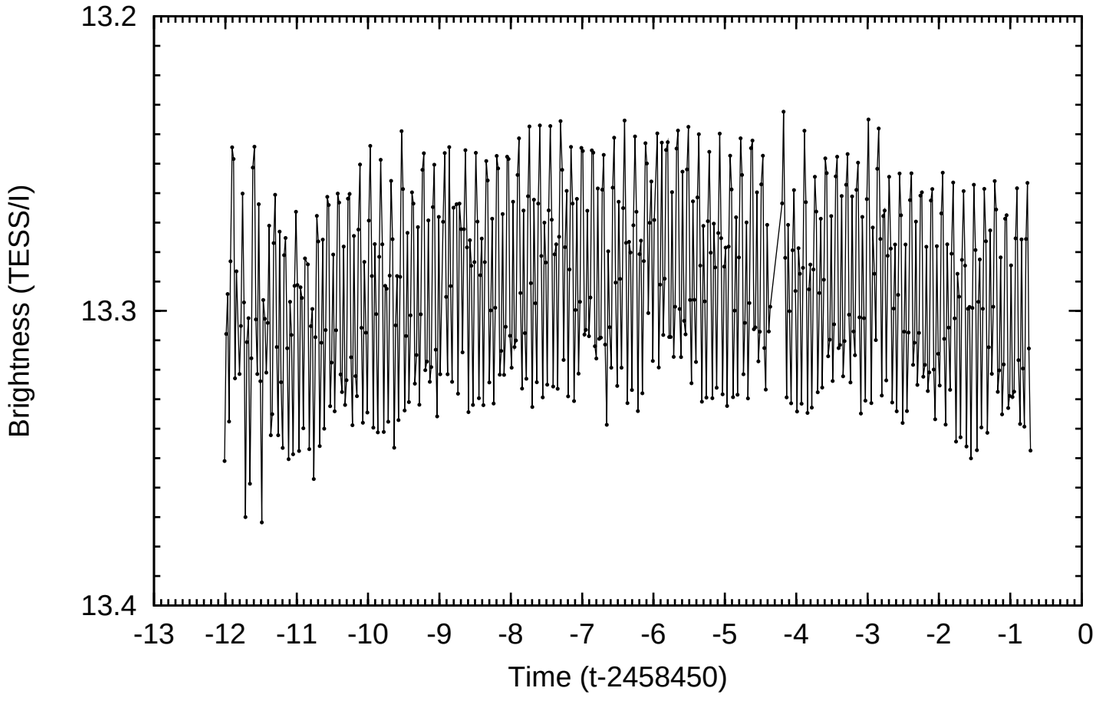

Residual
Frequency (c/d)

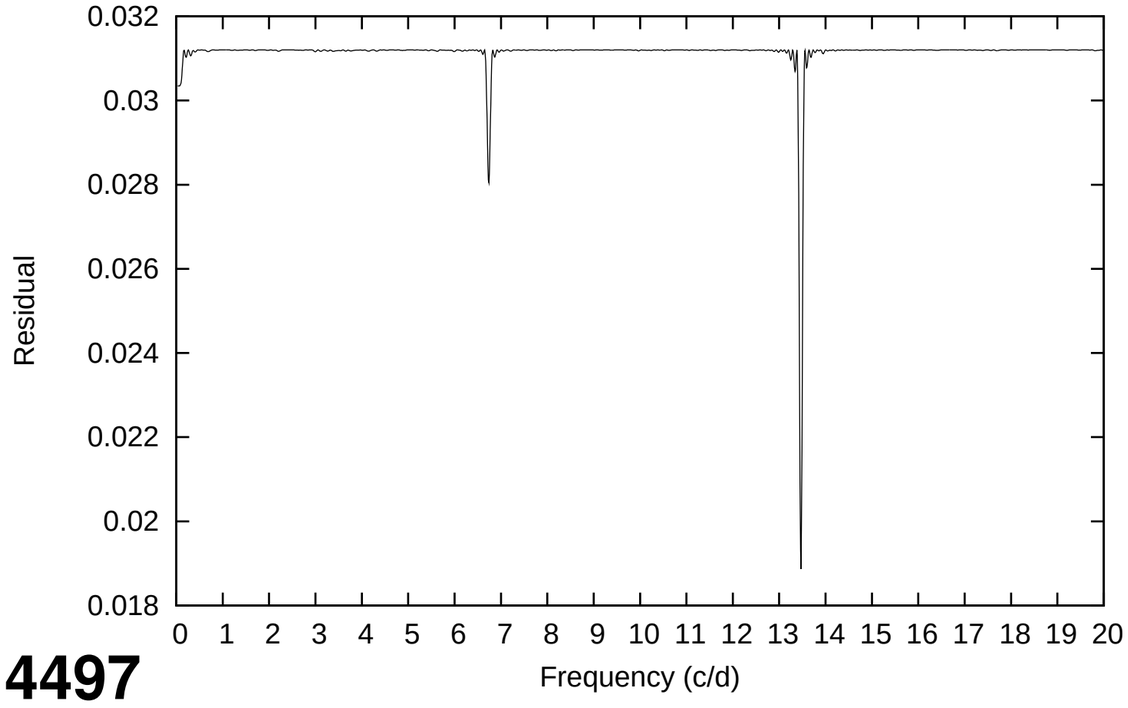
353

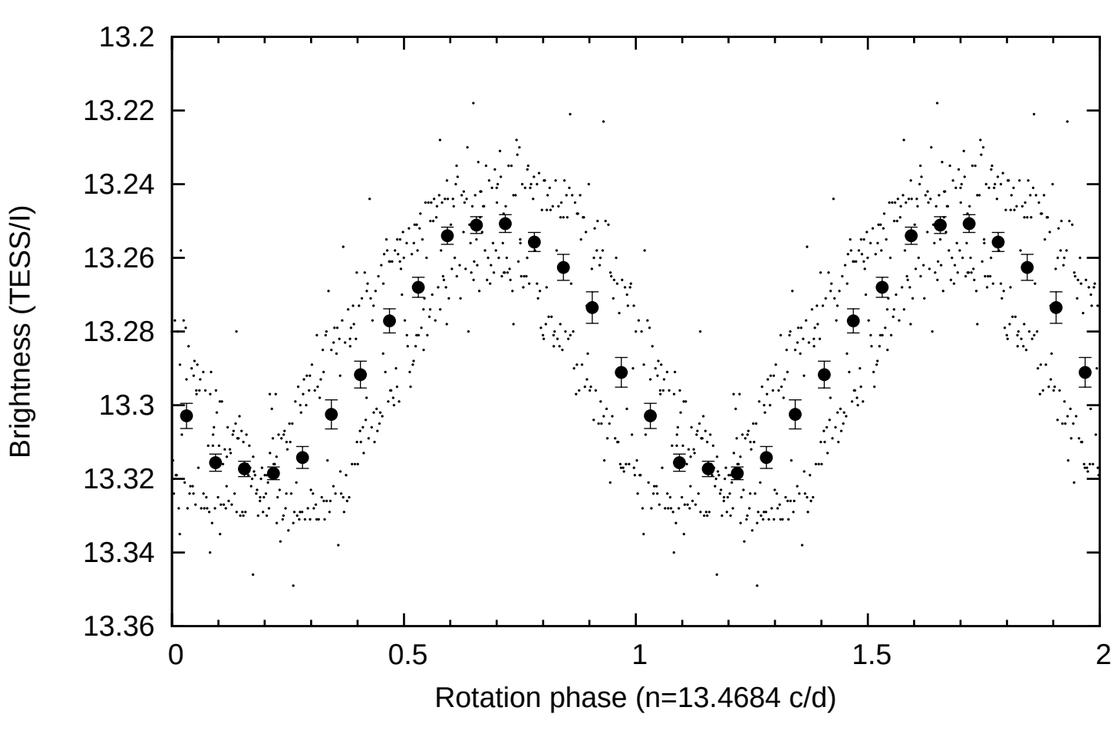

Brightness (TESS/I)
Rotation phase (n=17.5239 c/d)

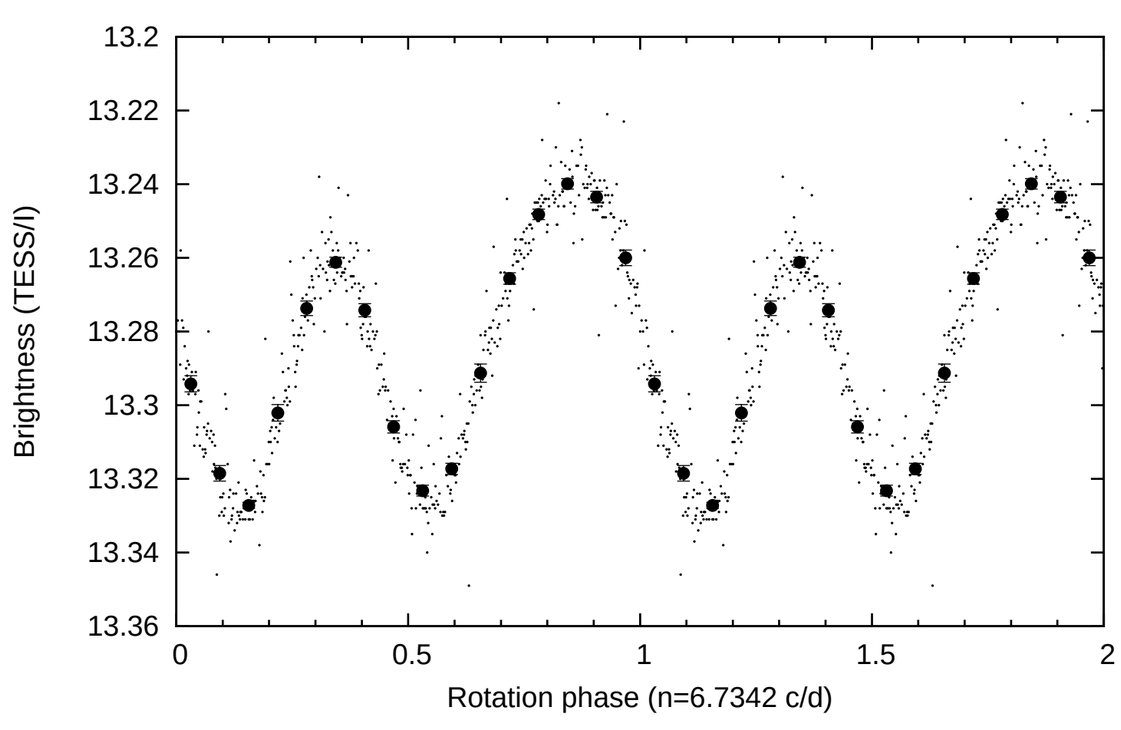

Brightness (TESS/I)
Rotation phase (n=8.76195 c/d)

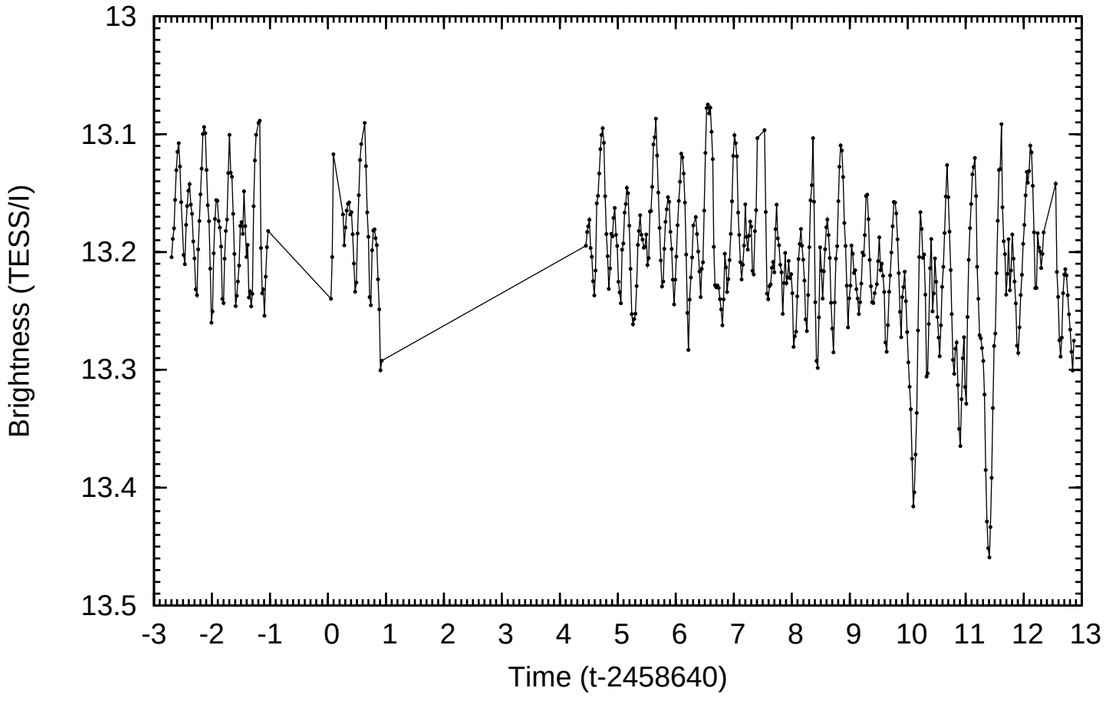
4497

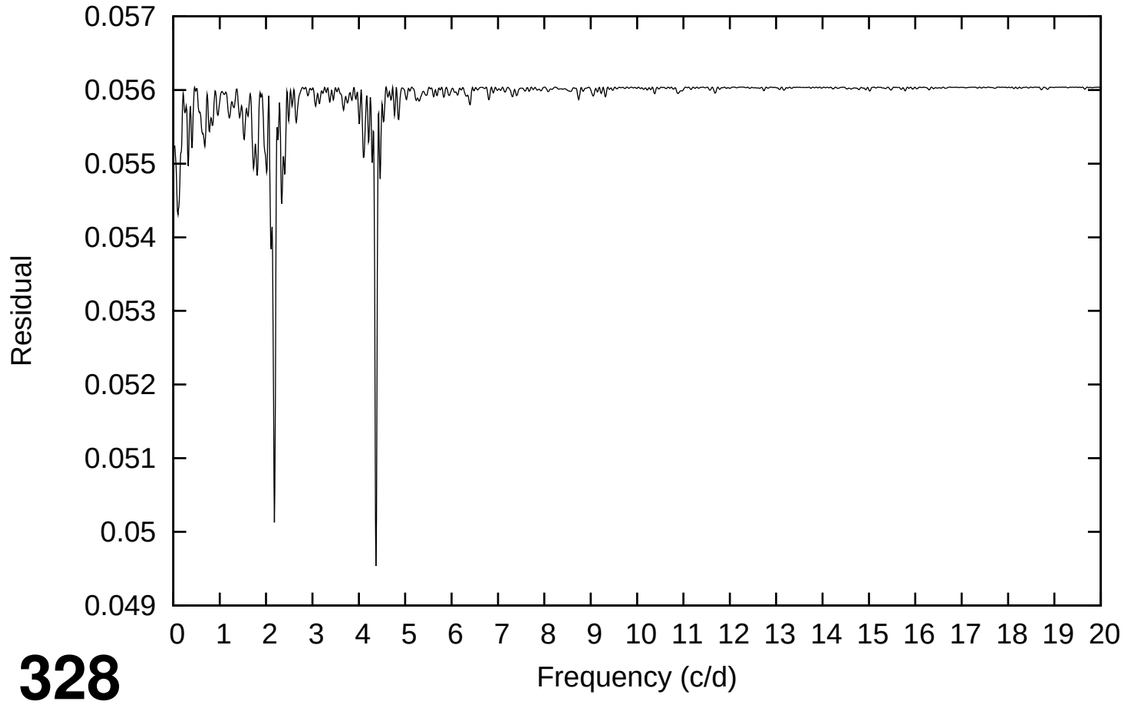

Brightness (TESS/I)
13.2
13.3
13.4
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0
Time (t-2458450)


Residual
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

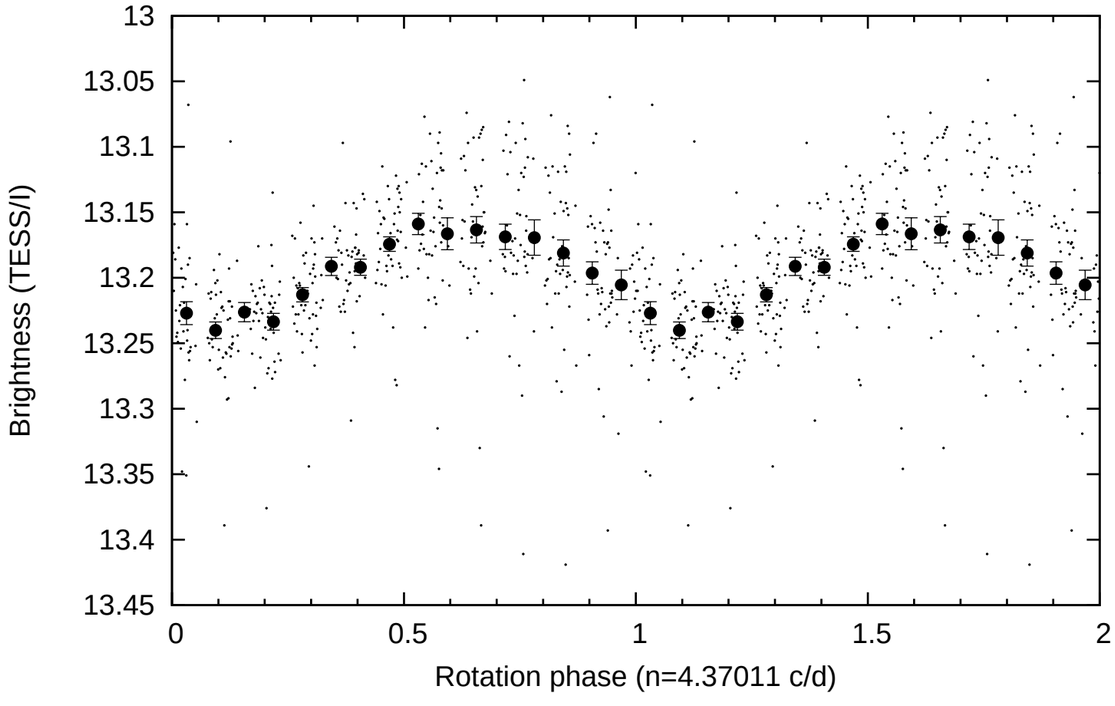

Brightness (TESS/I)
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
13.36
0 0.5 1 1.5 2
Rotation phase (n=13.4684 c/d)

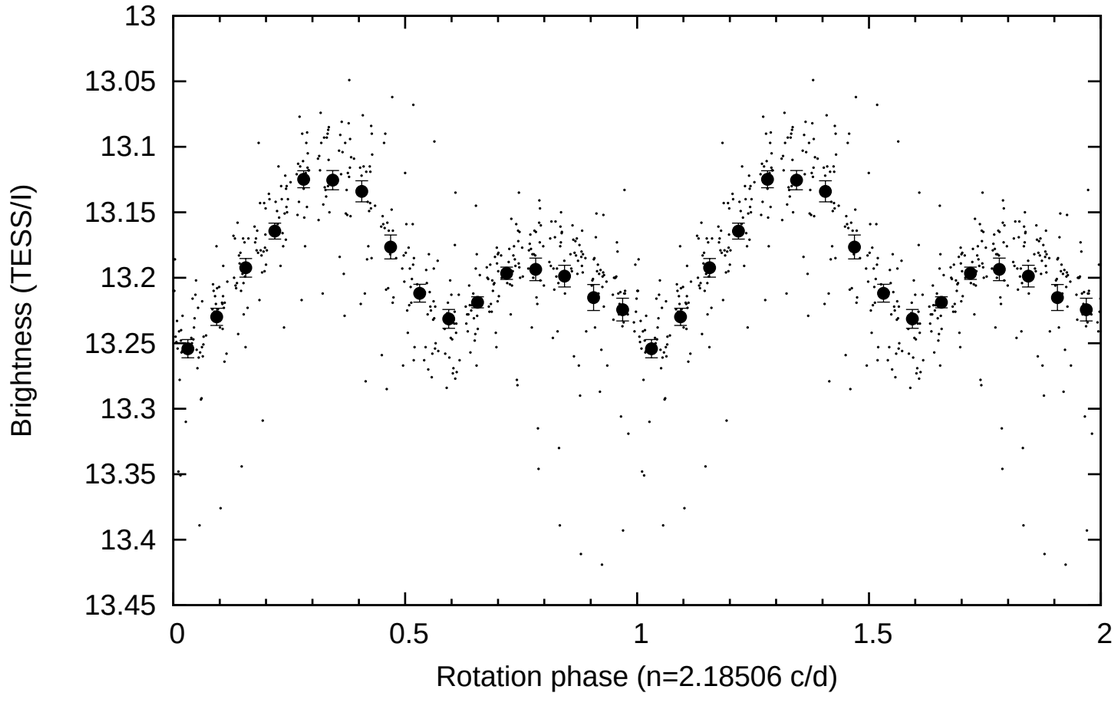

Brightness (TESS/I)
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
13.36
0 0.5 1 1.5 2
Rotation phase (n=6.7342 c/d)

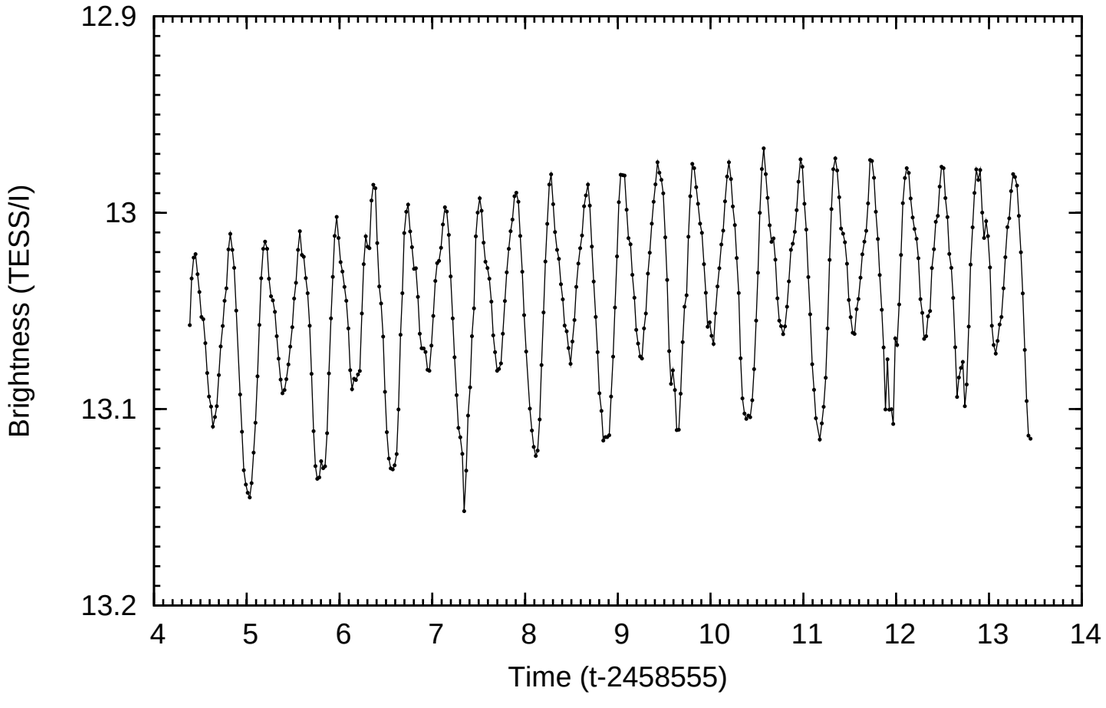

Brightness (TESS/I)
Time (t-2458640)

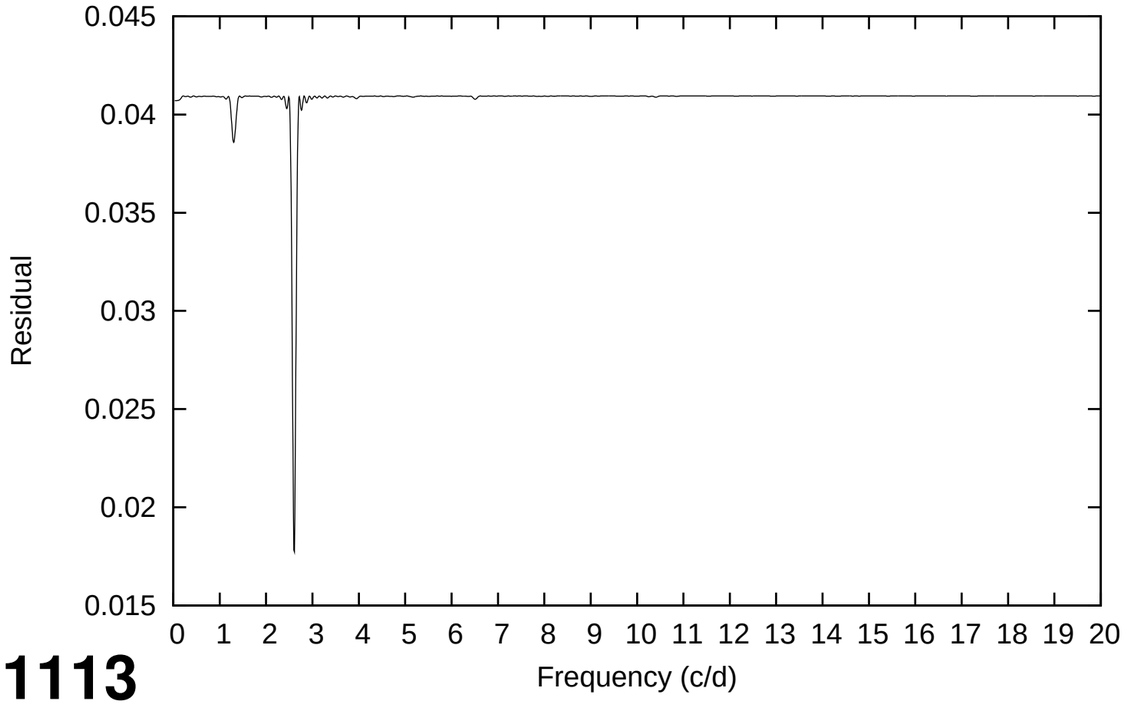

Residual
Frequency (c/d)

328

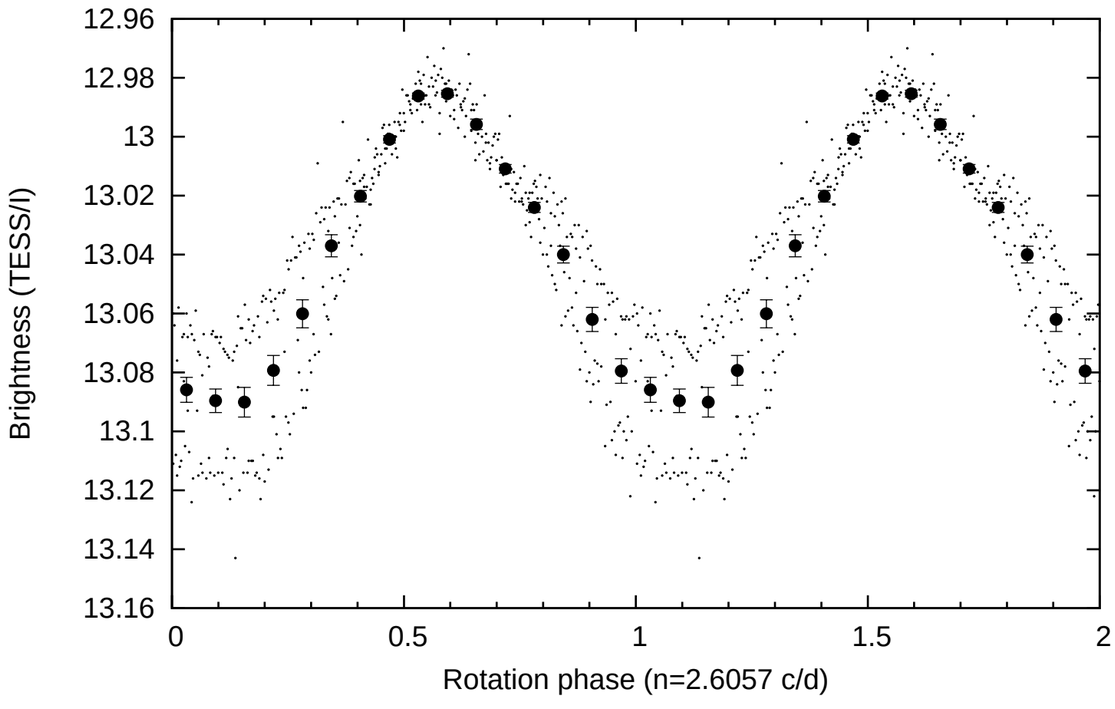

Brightness (TESS/I)
Rotation phase (n=4.37011 c/d)

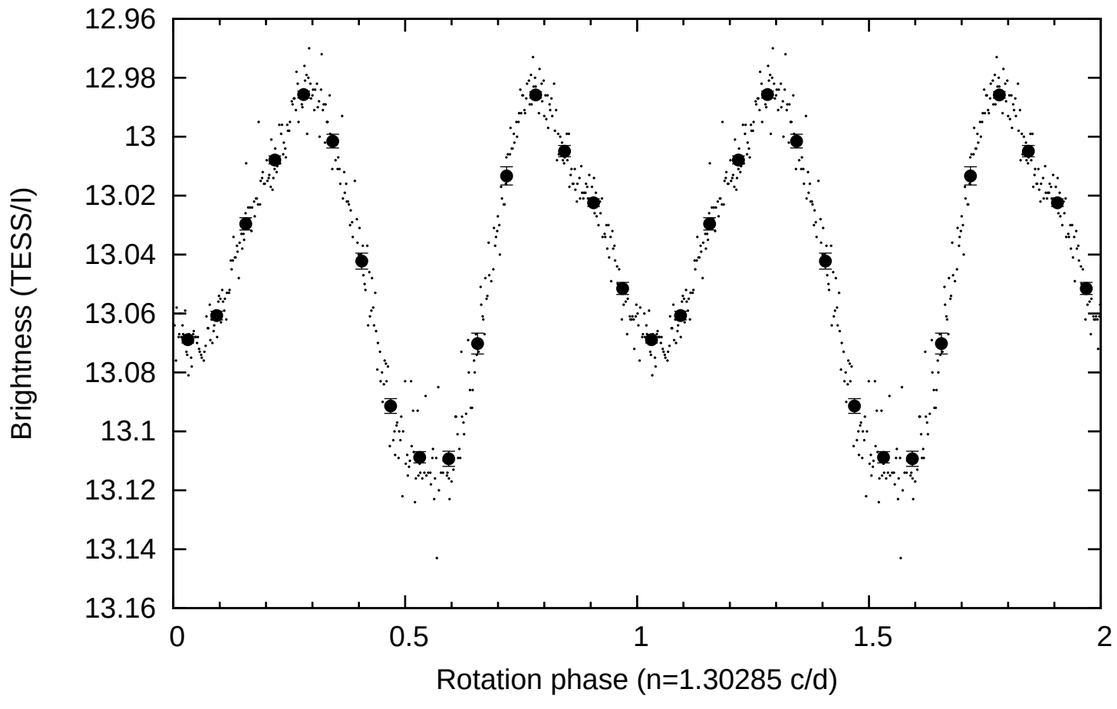

Brightness (TESS/I)
Rotation phase (n=2.18506 c/d)

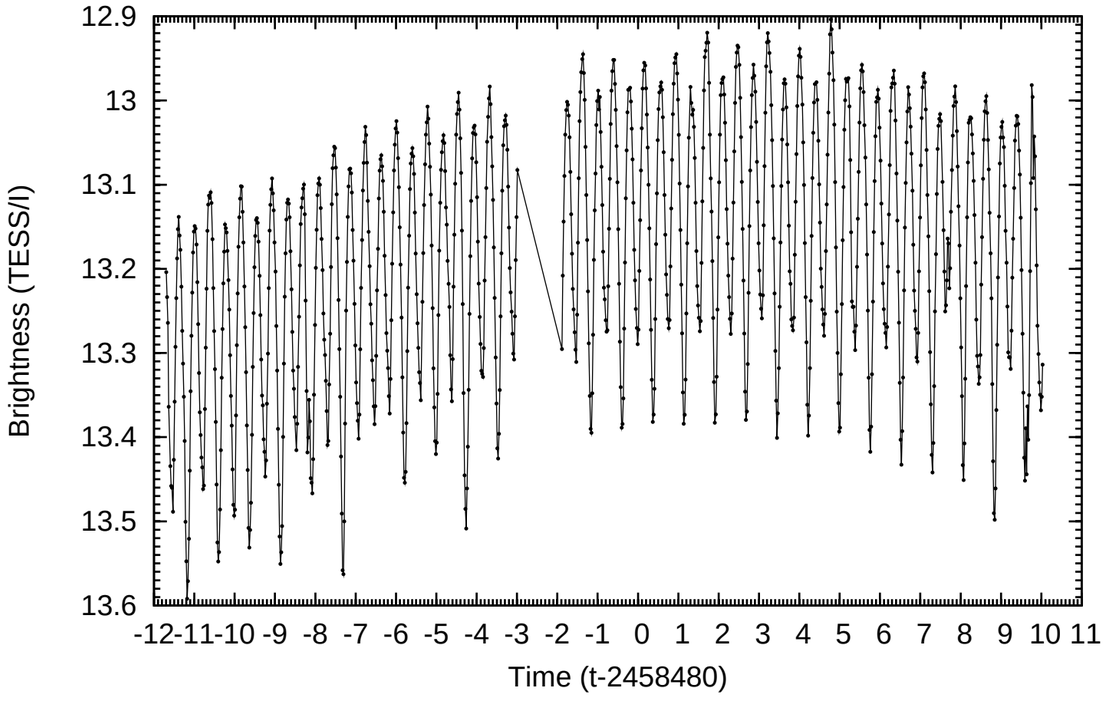

12.9
13
13.1
13.2
Brightness (TESS/I)
4
5
6
7
8
9
10
11
12
13
14
Time (t-2458555)

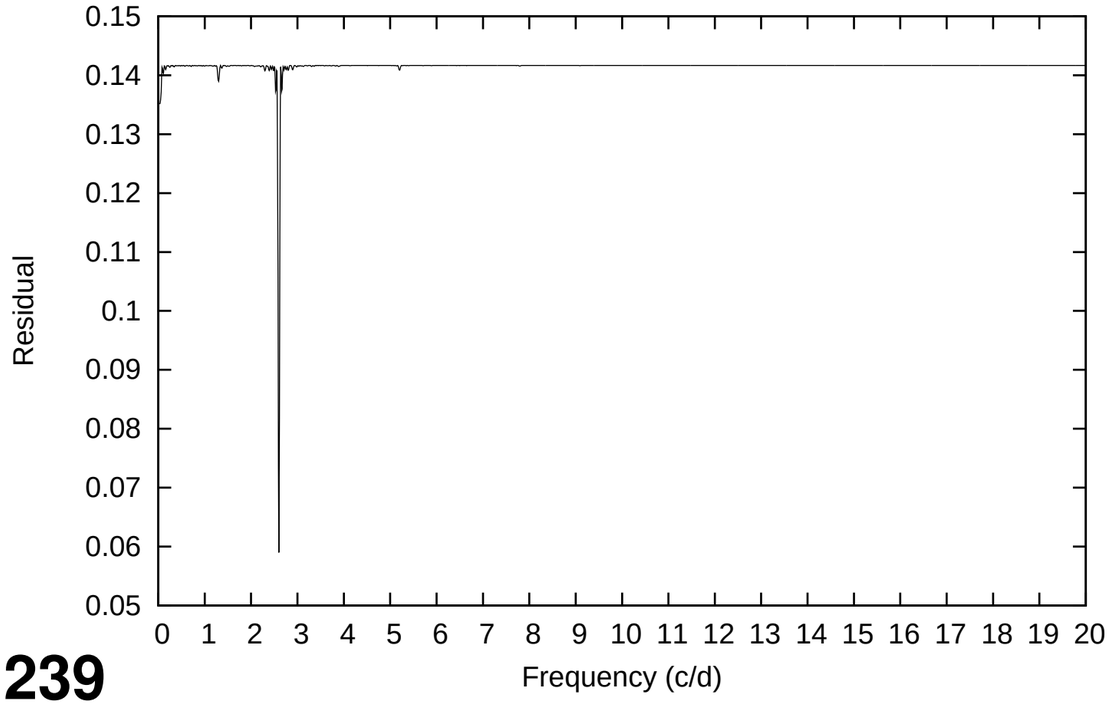

0.045
0.04
0.035
0.03
0.025
0.02
0.015
Residual
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Frequency (c/d)

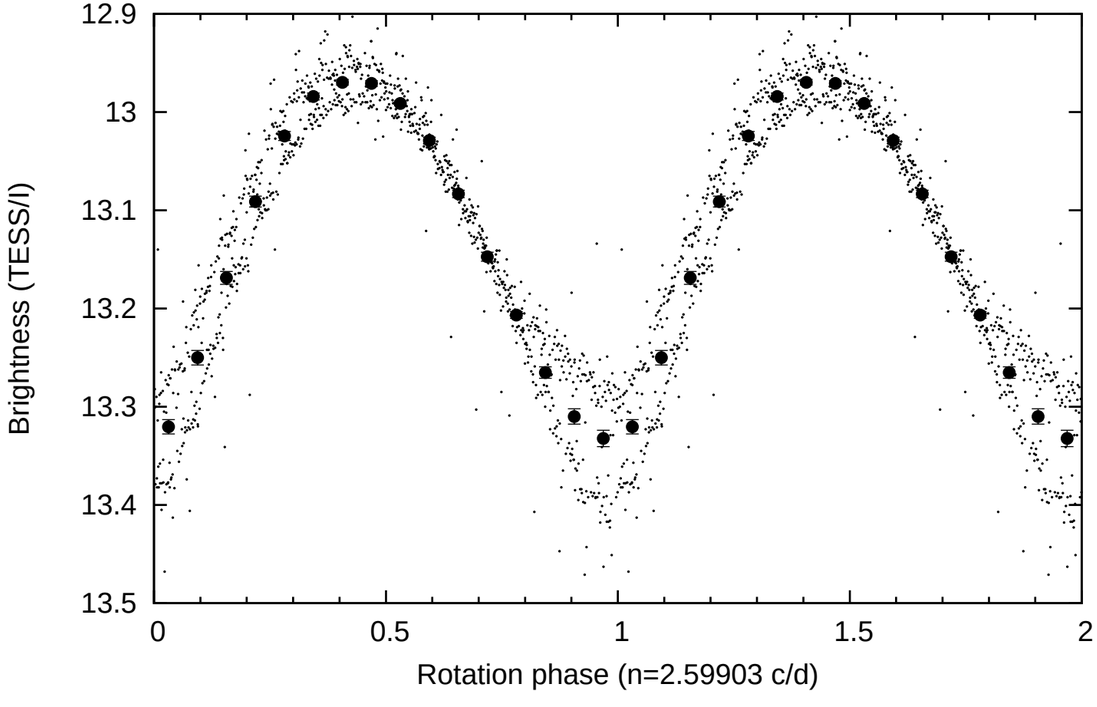
1113

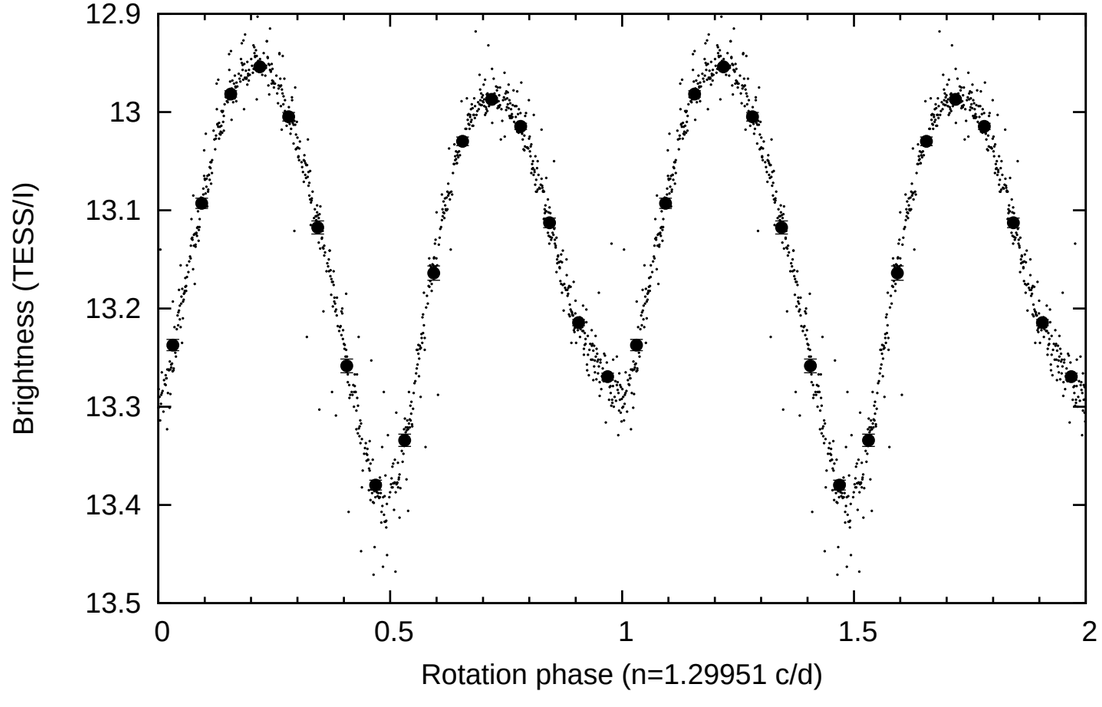

12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
13.12
13.14
13.16
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=2.6057 c/d)

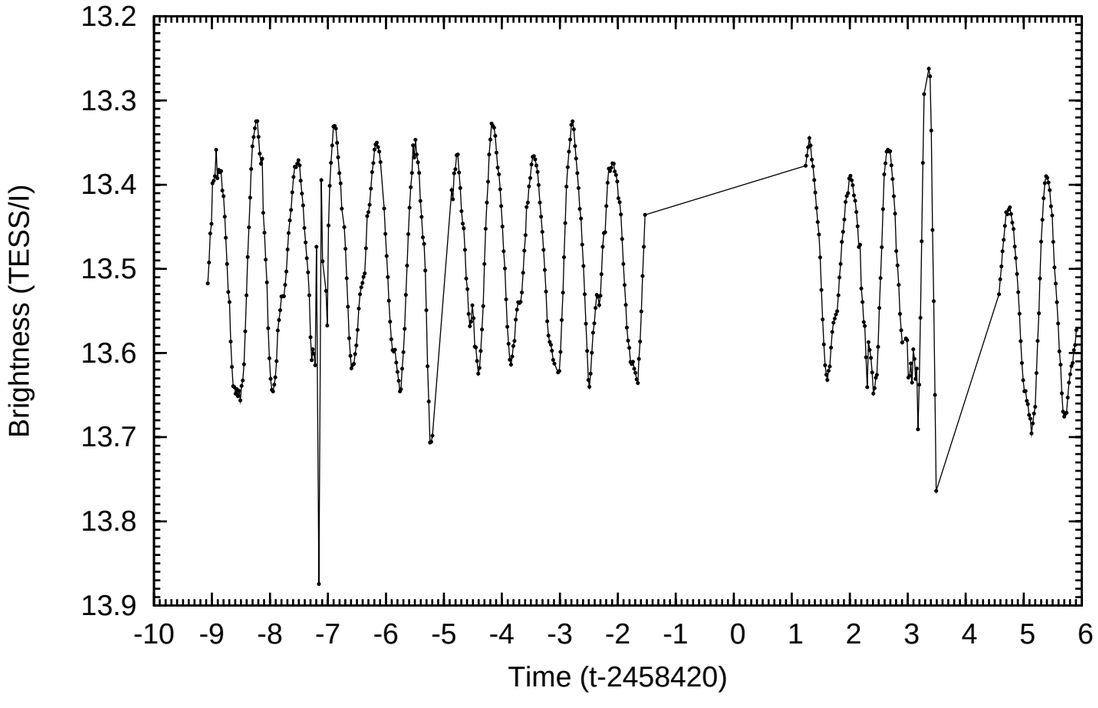

12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
13.12
13.14
13.16
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=1.30285 c/d)


Brightness (TESS/I)
Time (t-2458480)

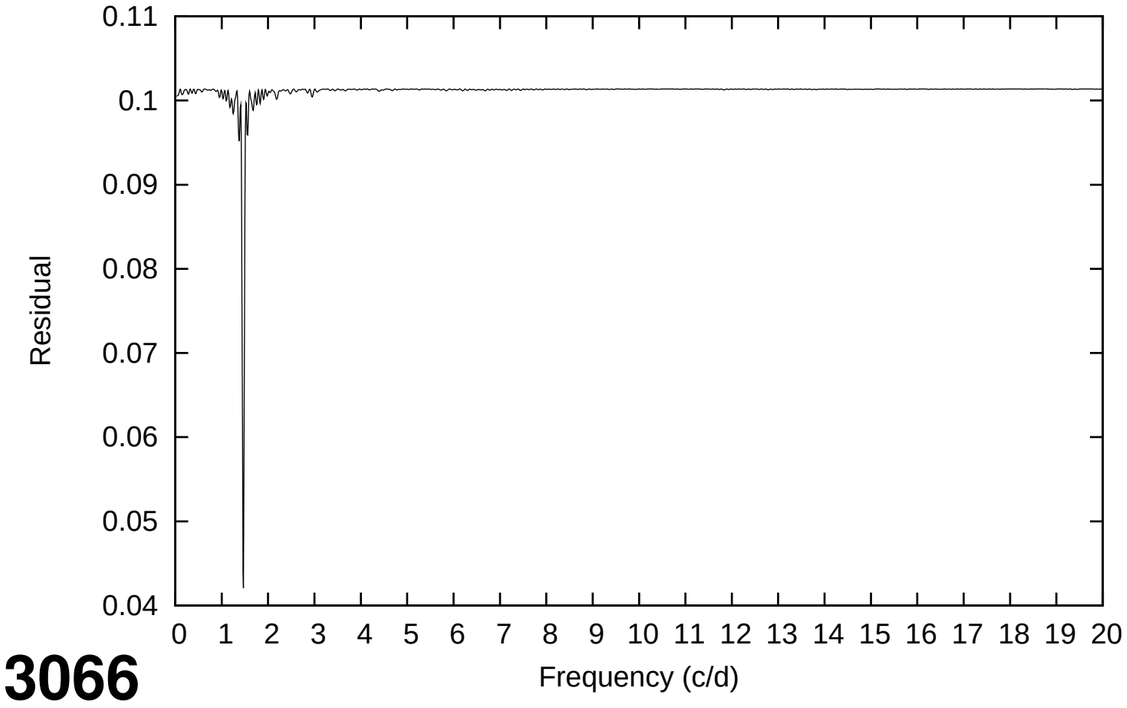

Residual
Frequency (c/d)

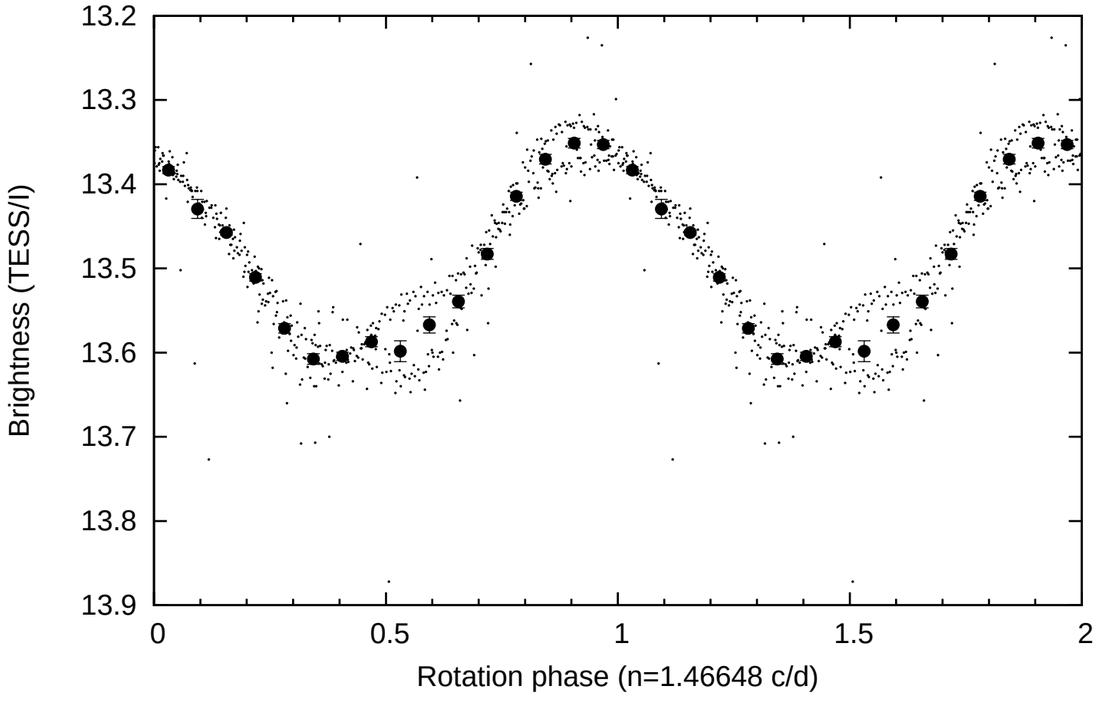

Brightness (TESS/I)
Rotation phase (n=2.59903 c/d)

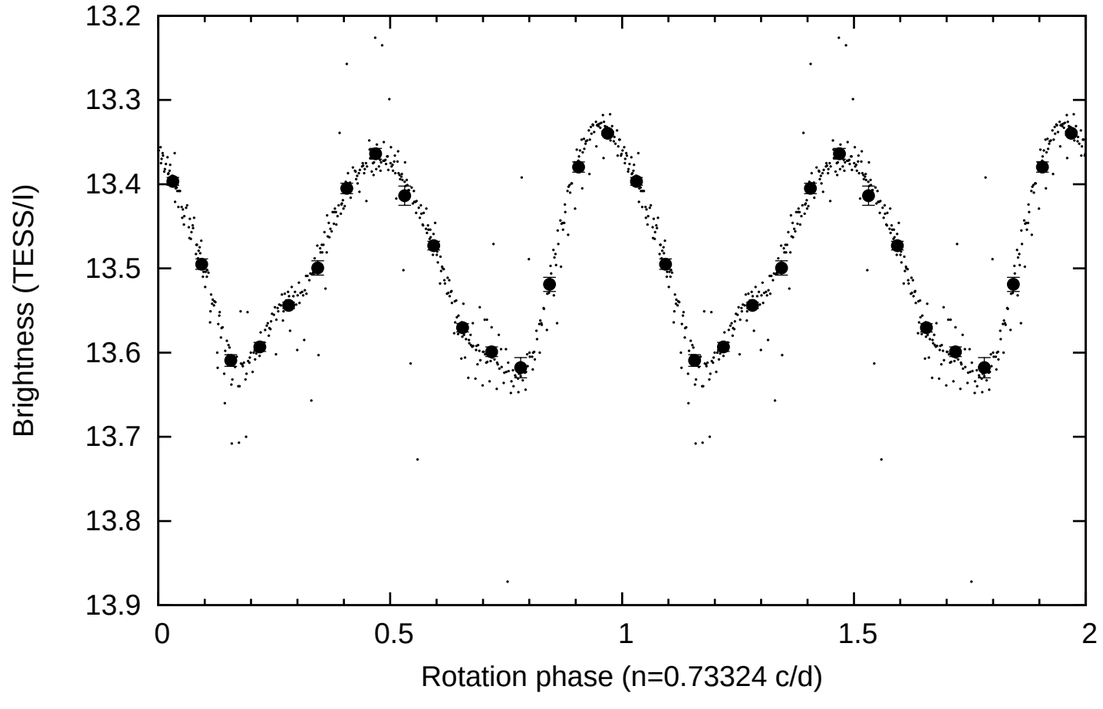

Brightness (TESS/I)
Rotation phase (n=1.29951 c/d)

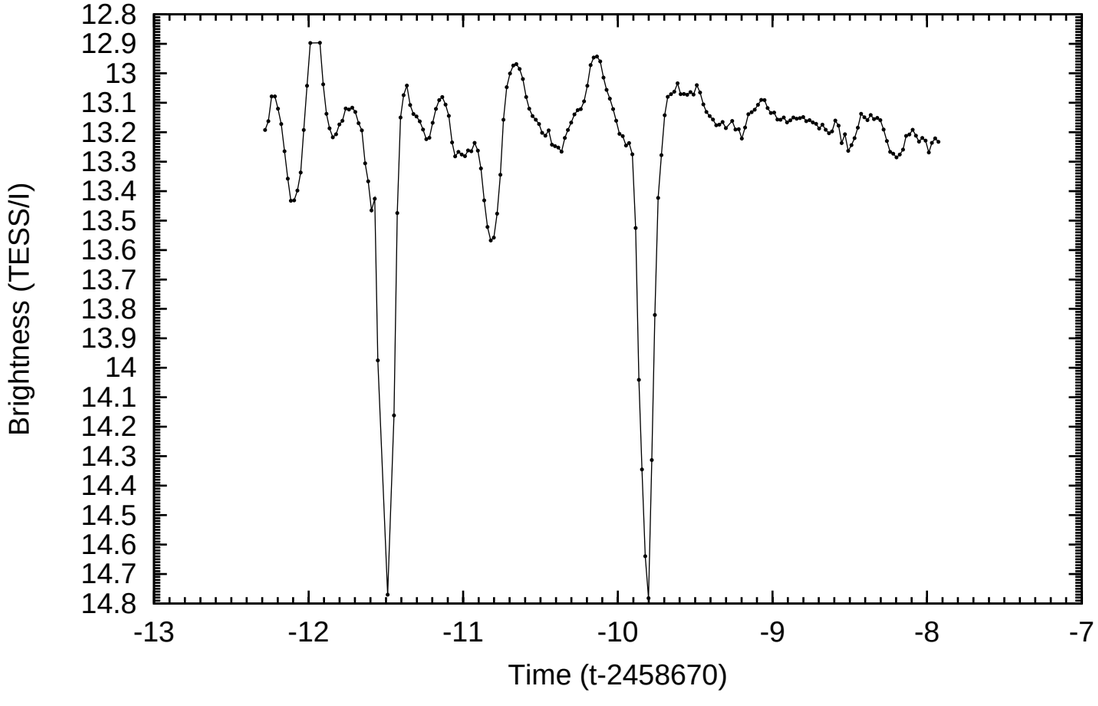

Brightness (TESS/I)
Time (t-2458420)

3066

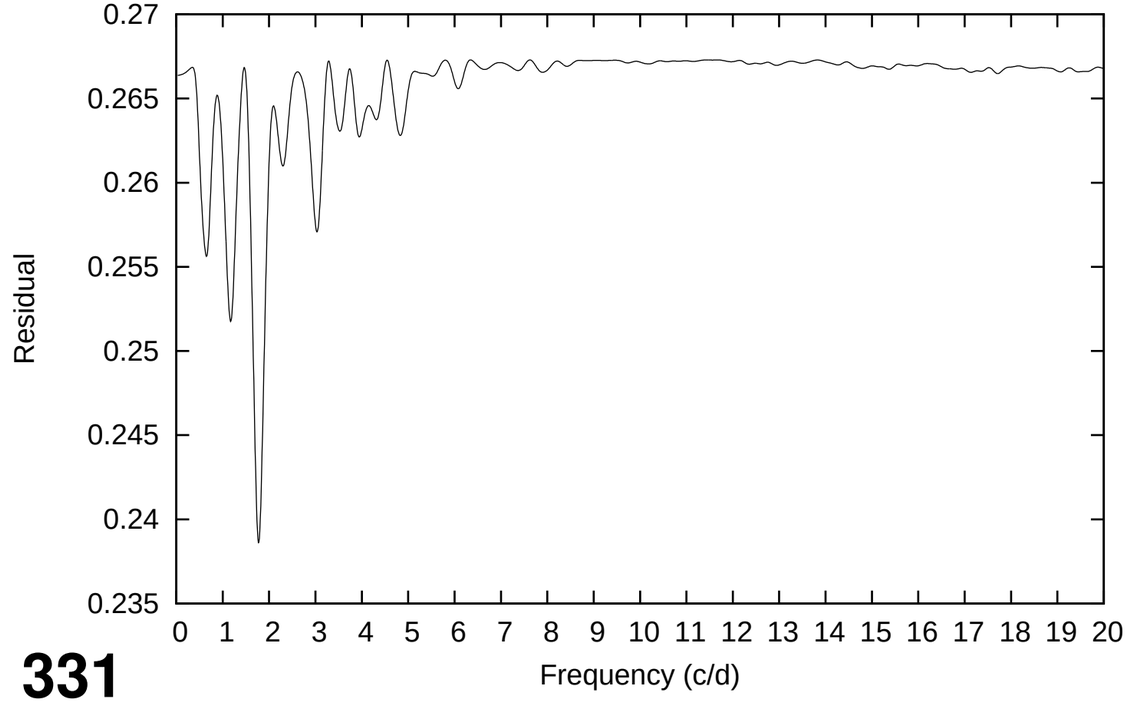

Residual
Frequency (c/d)

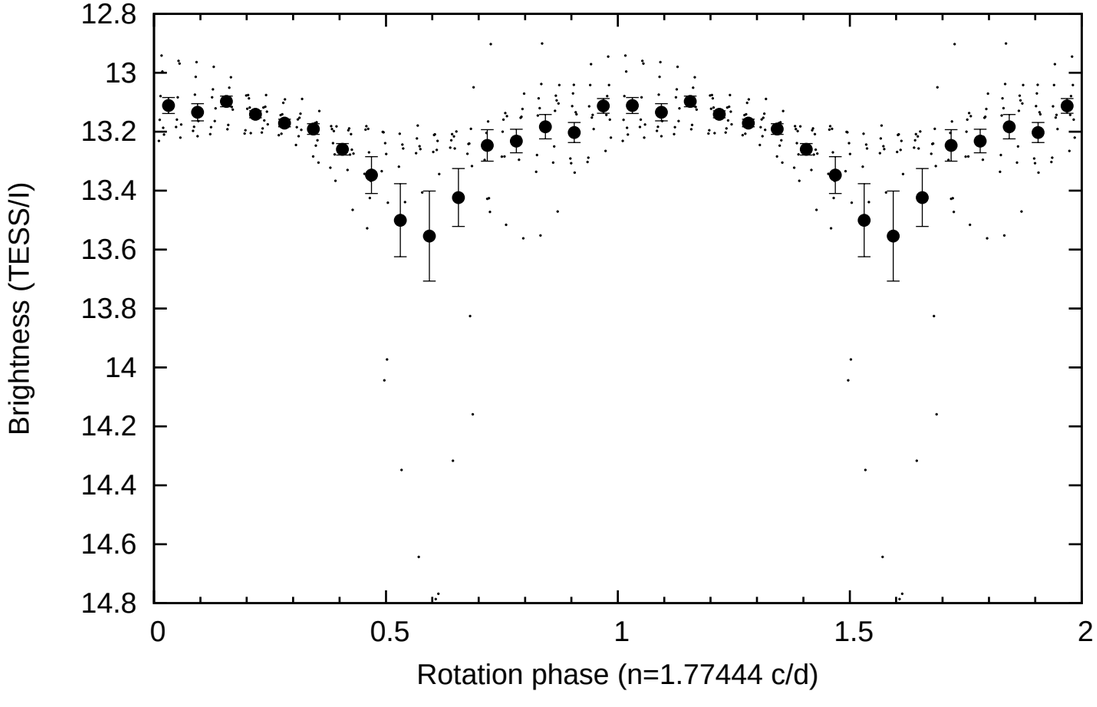

Brightness (TESS/I)
Rotation phase (n=1.46648 c/d)

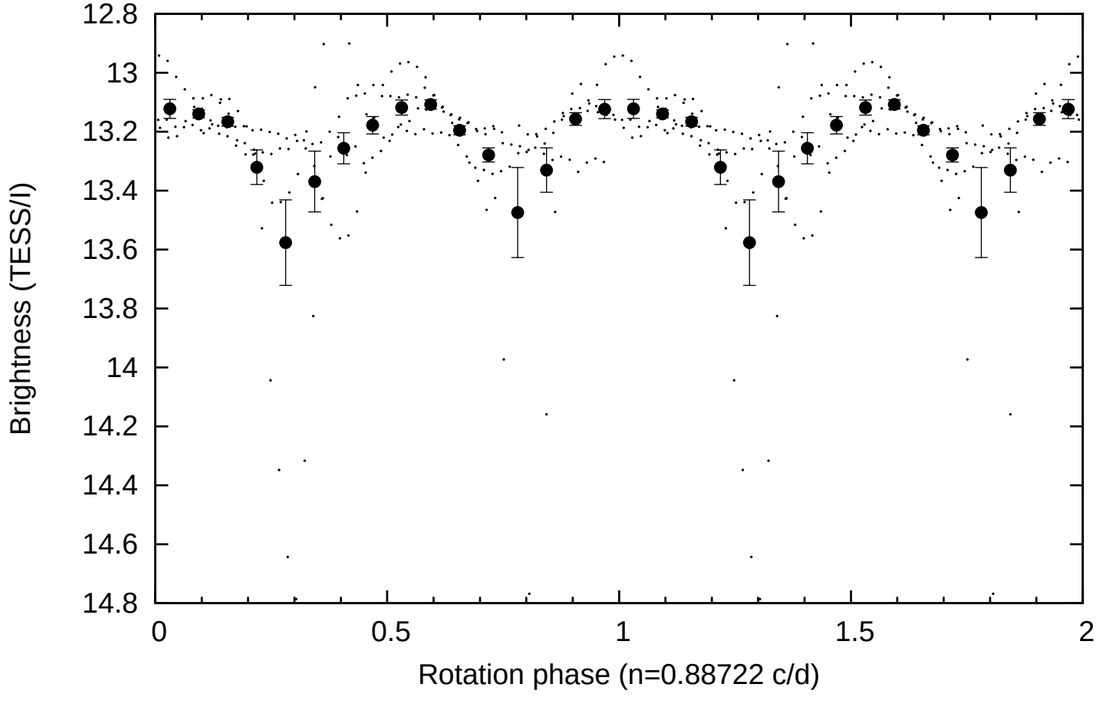

Brightness (TESS/I)
Rotation phase (n=0.73324 c/d)


Brightness (TESS/I)
Time (t-2458670)

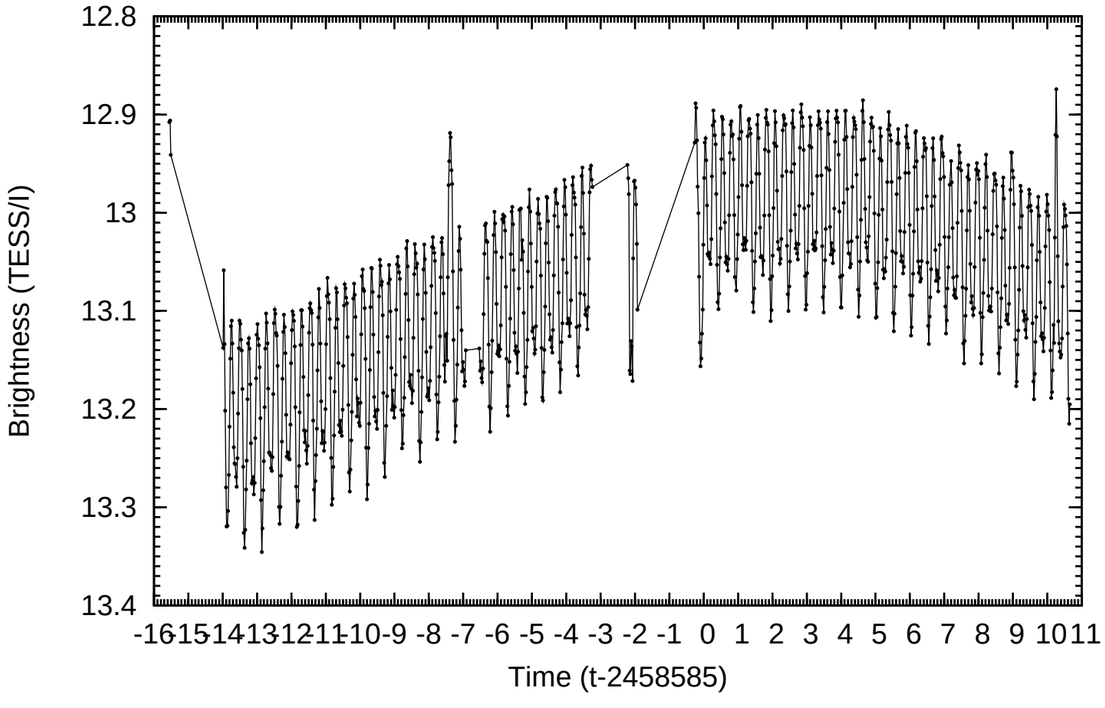
331

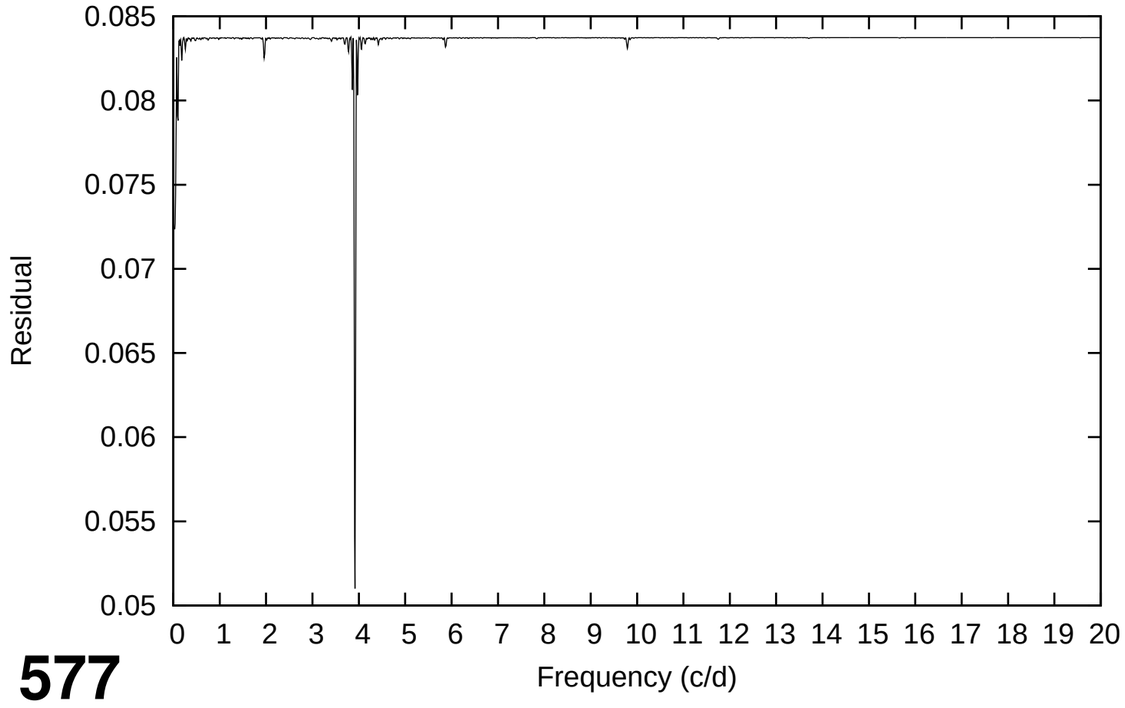

Residual
Frequency (c/d)

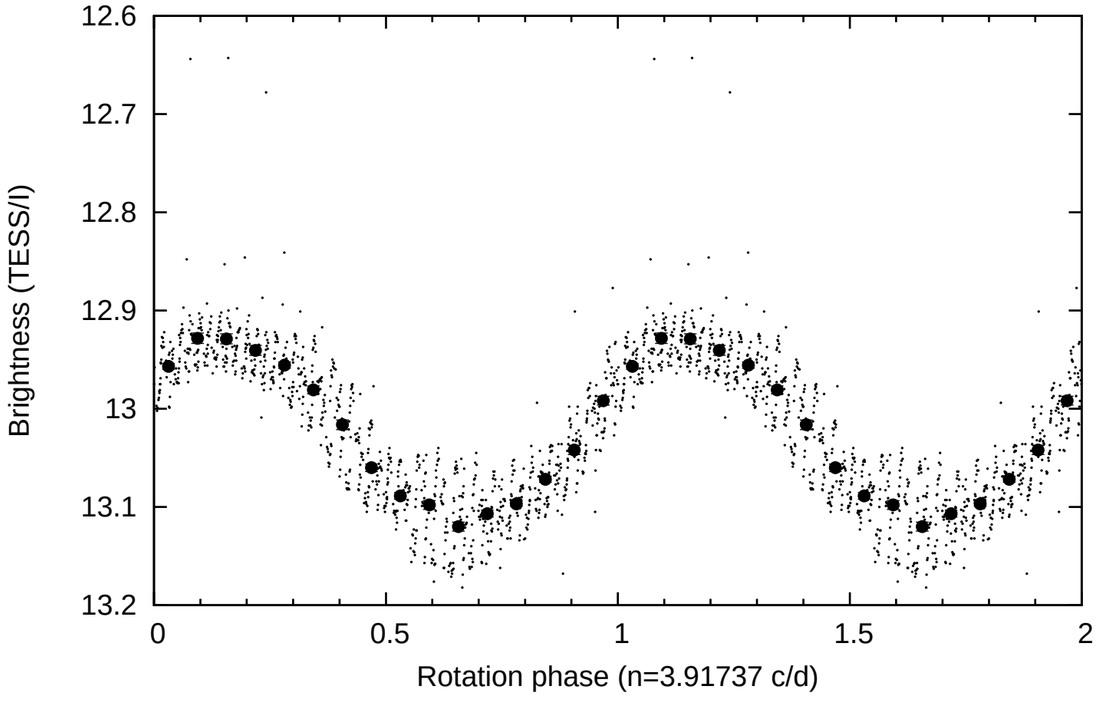

Brightness (TESS/I)
Rotation phase (n=1.77444 c/d)

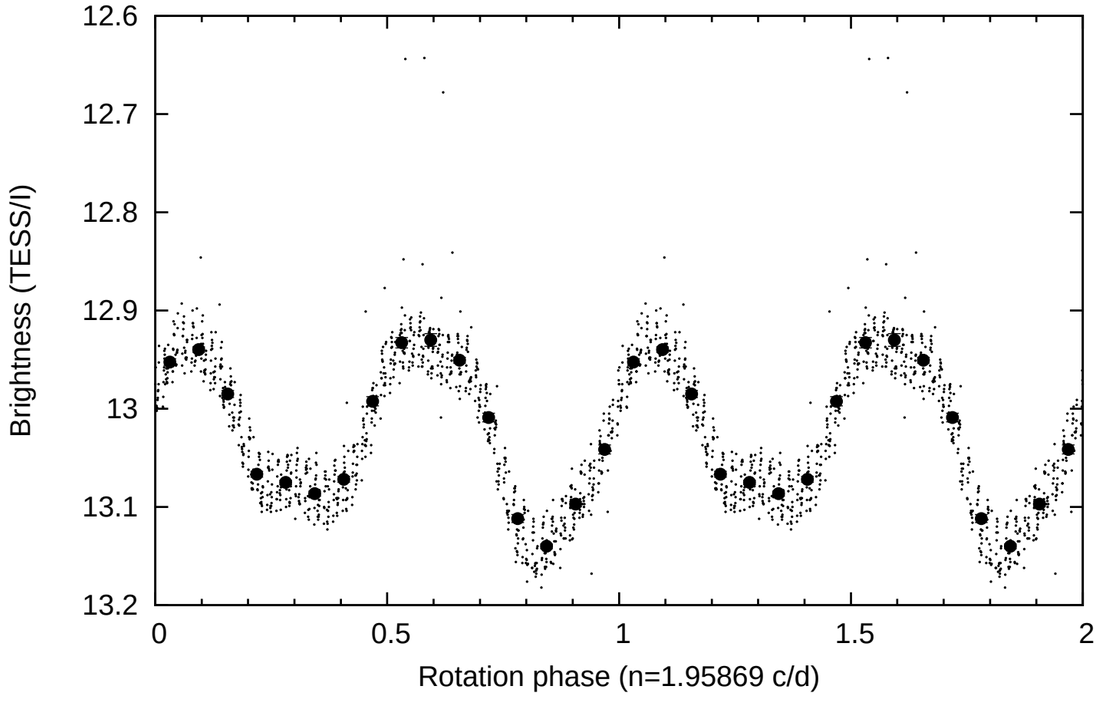

Brightness (TESS/I)
Rotation phase (n=0.88722 c/d)

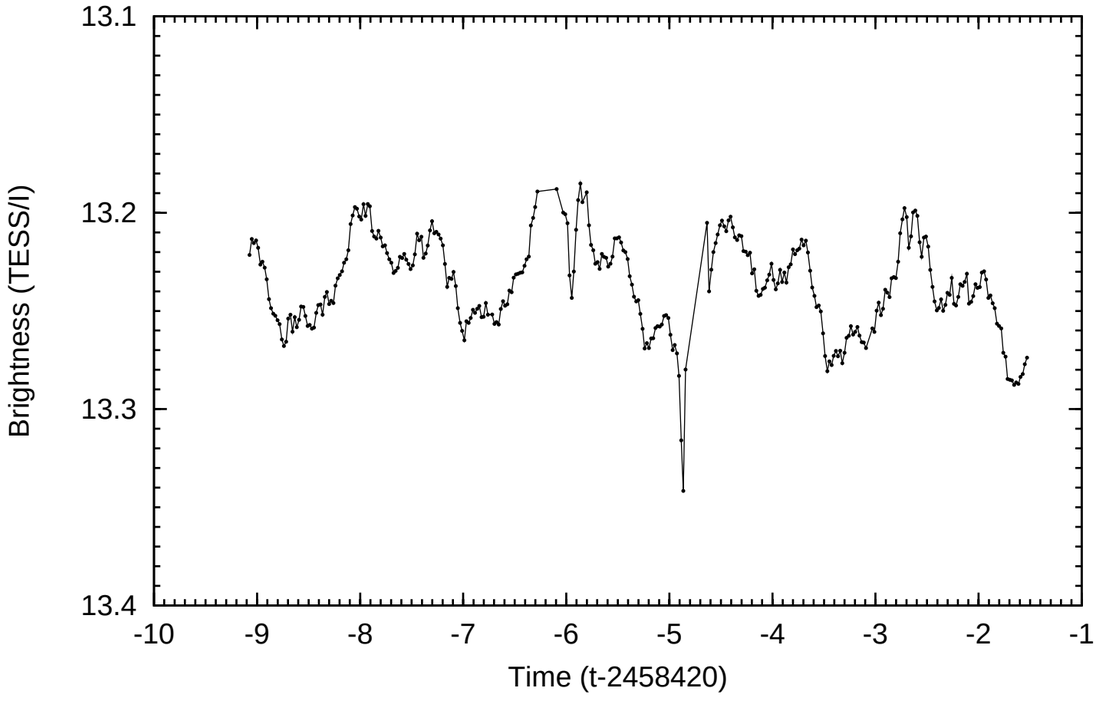
577

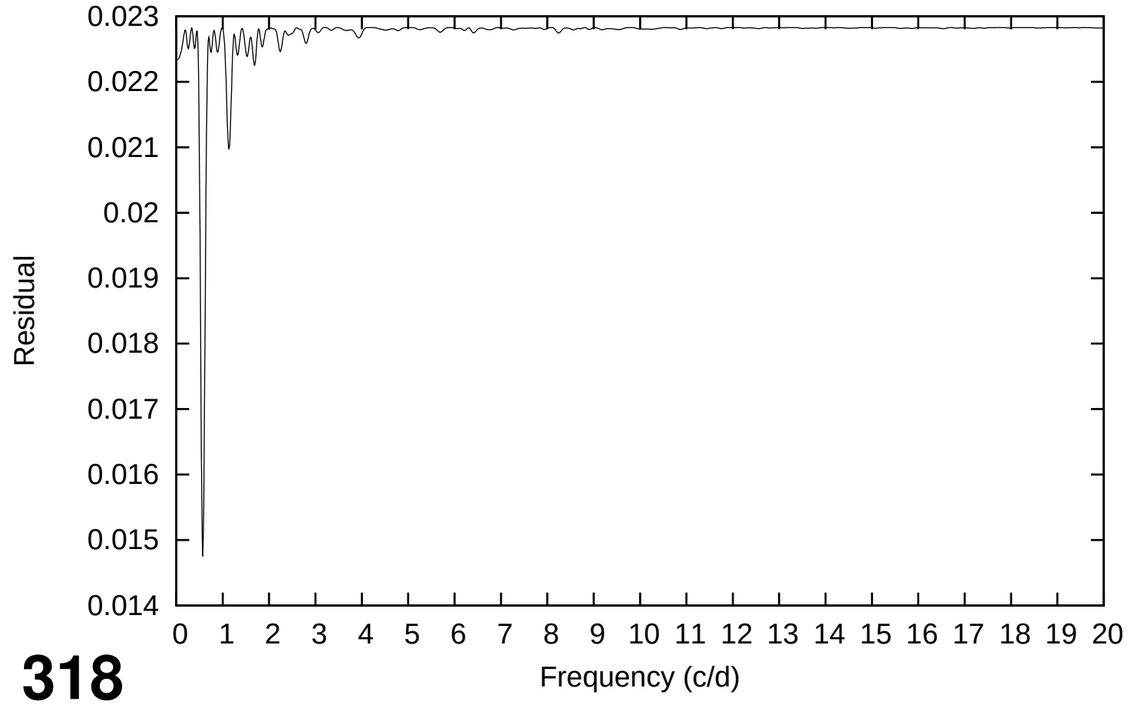

Brightness (TESS/I)
Time (t-2458585)

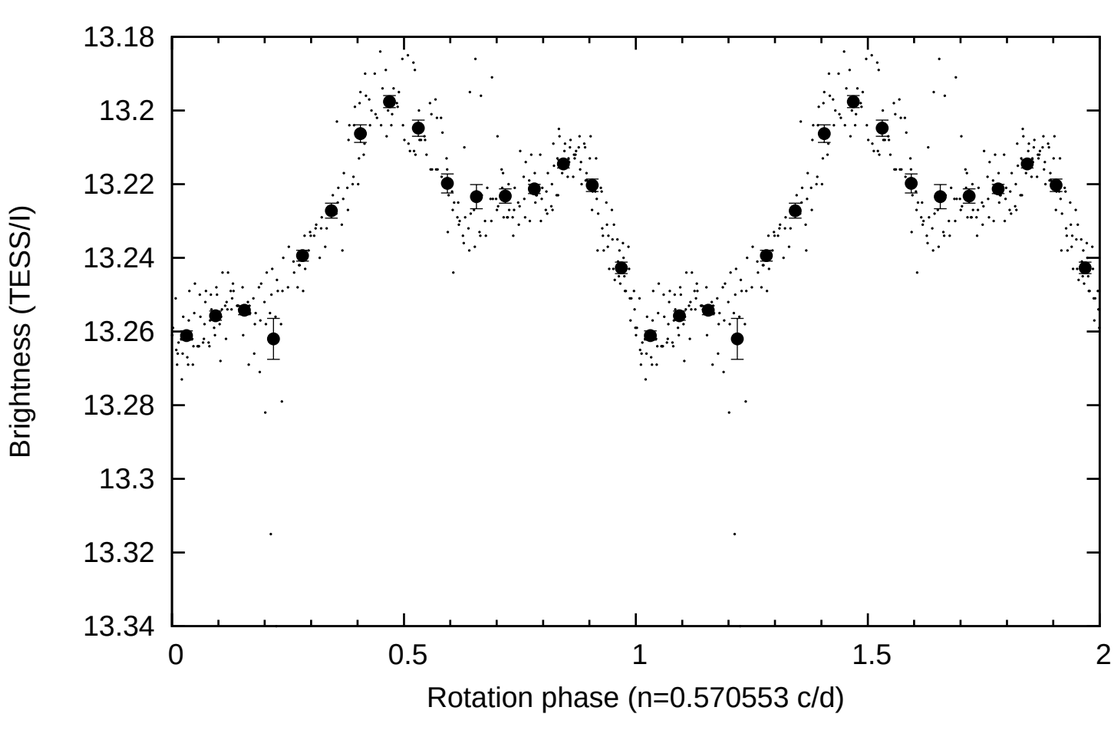

Residual
Frequency (c/d)

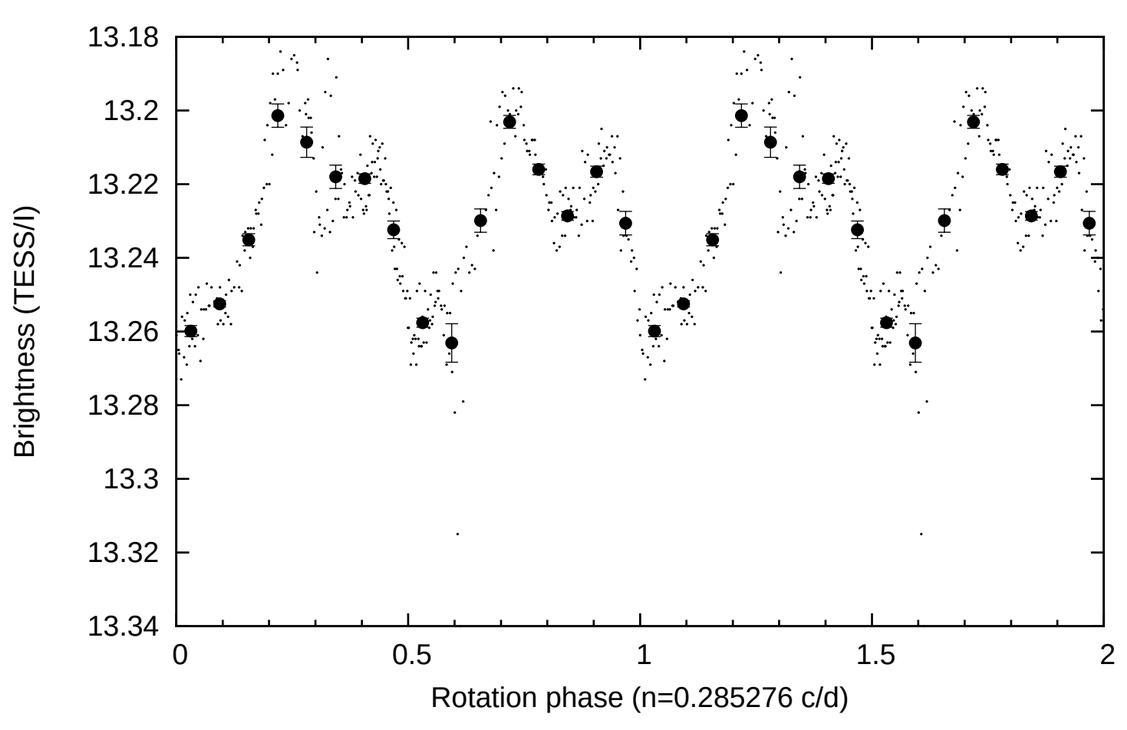

Brightness (TESS/I)
Rotation phase (n=3.91737 c/d)

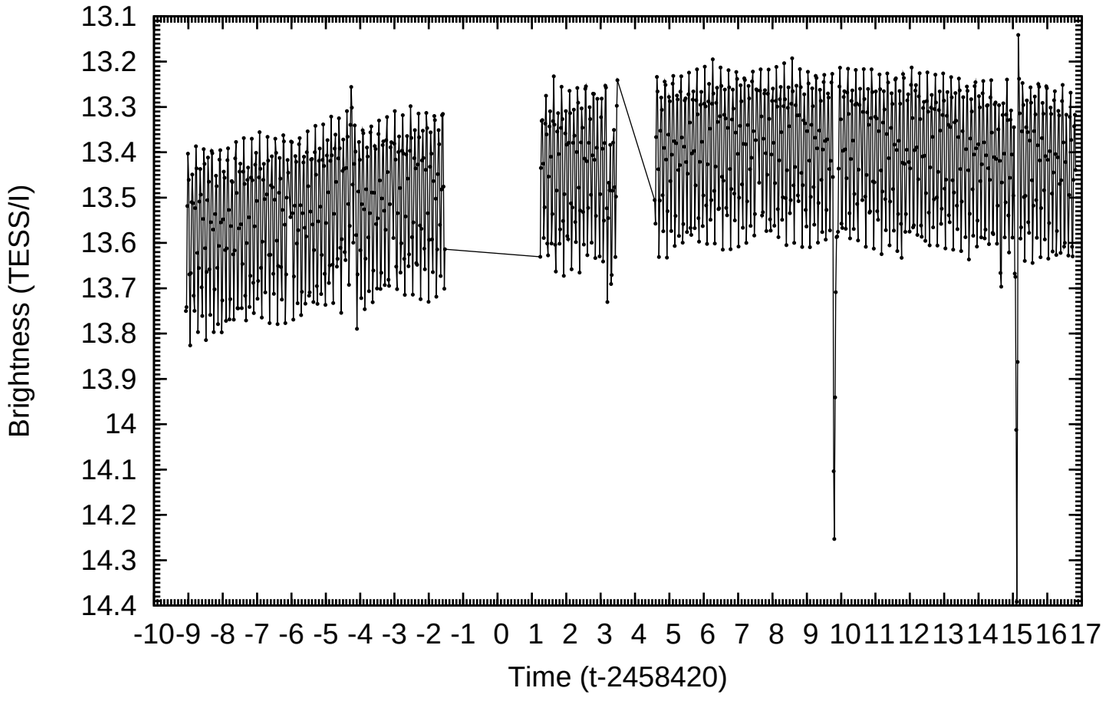

Brightness (TESS/I)
Rotation phase (n=1.95869 c/d)

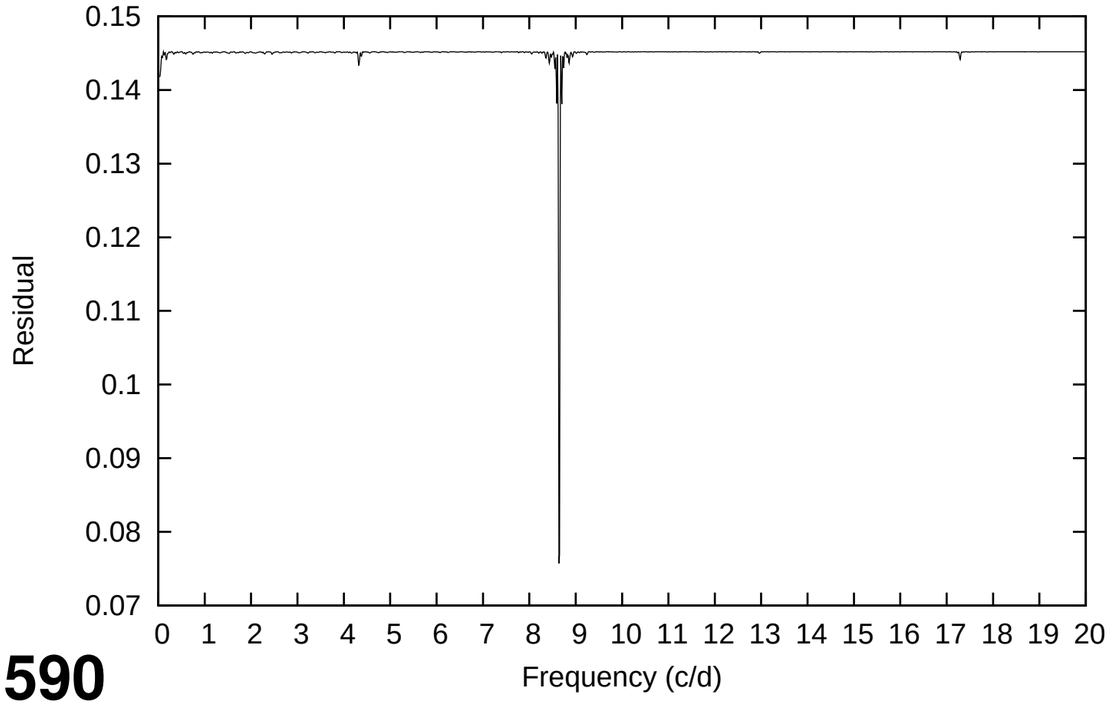

13.1
13.2
13.3
13.4
Brightness (TESS/I)
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
Time (t-2458420)


0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

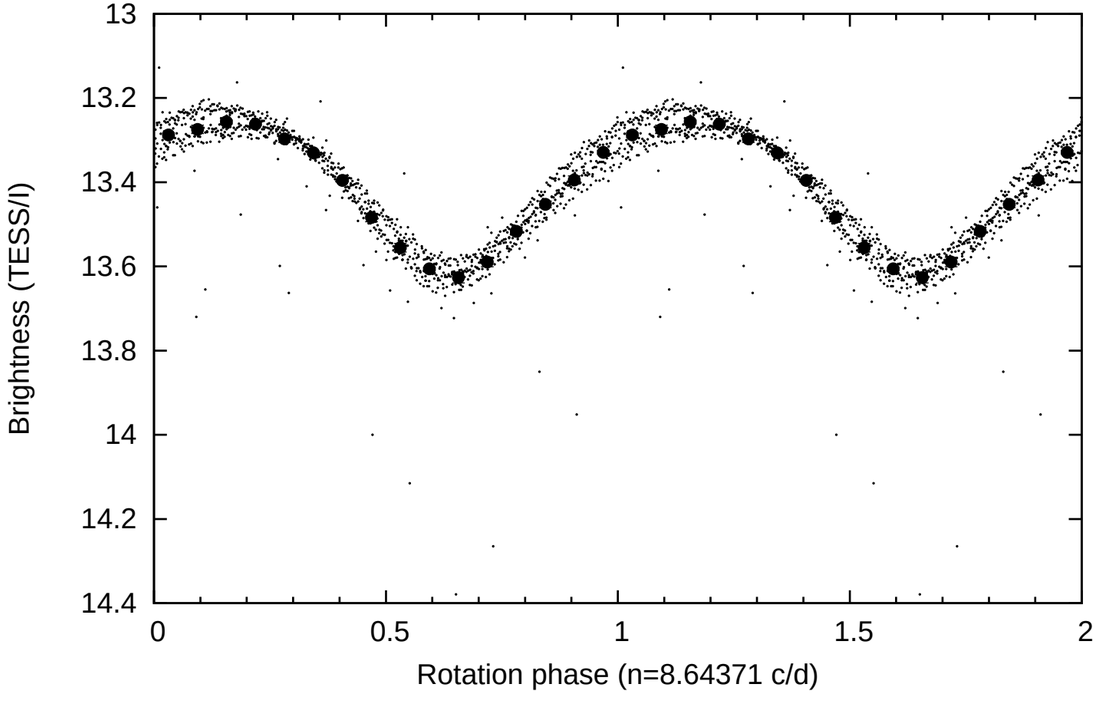

13.18
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=0.570553 c/d)

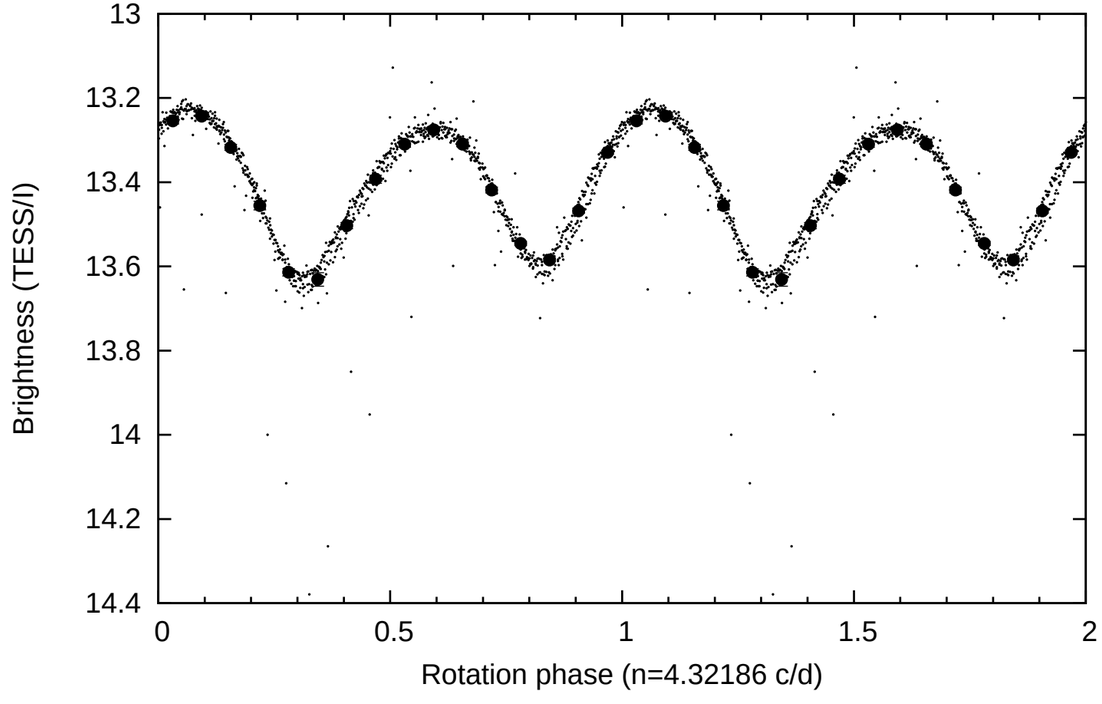

13.18
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=0.285276 c/d)

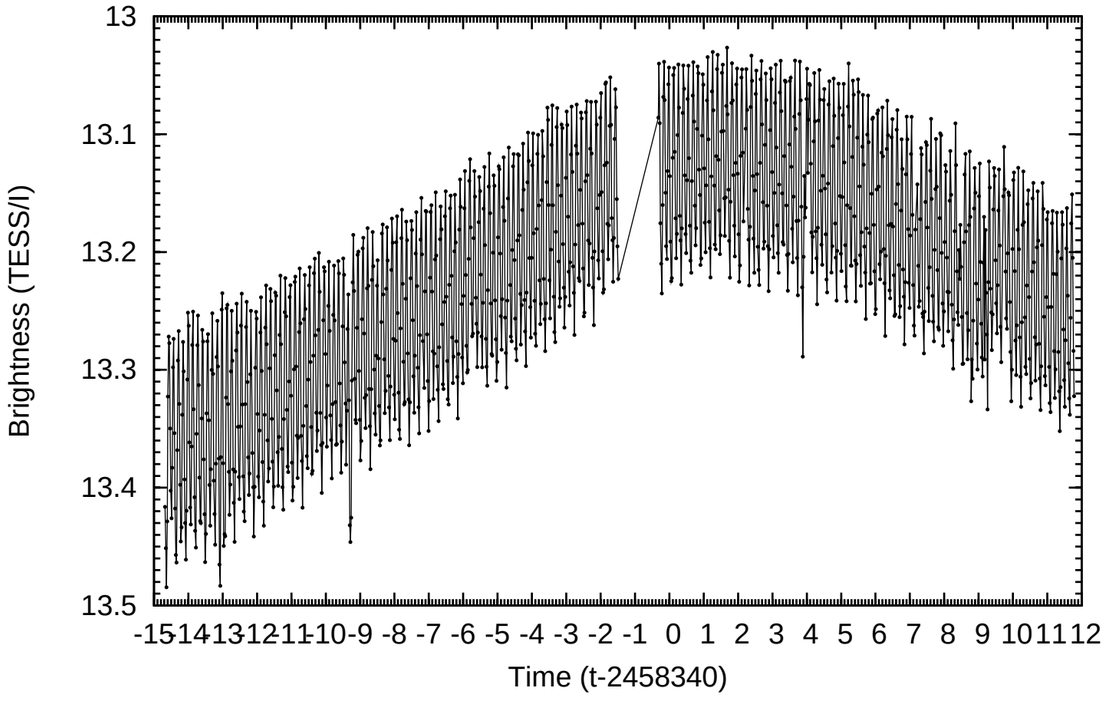

Brightness (TESS/I)
Time (t-2458420)

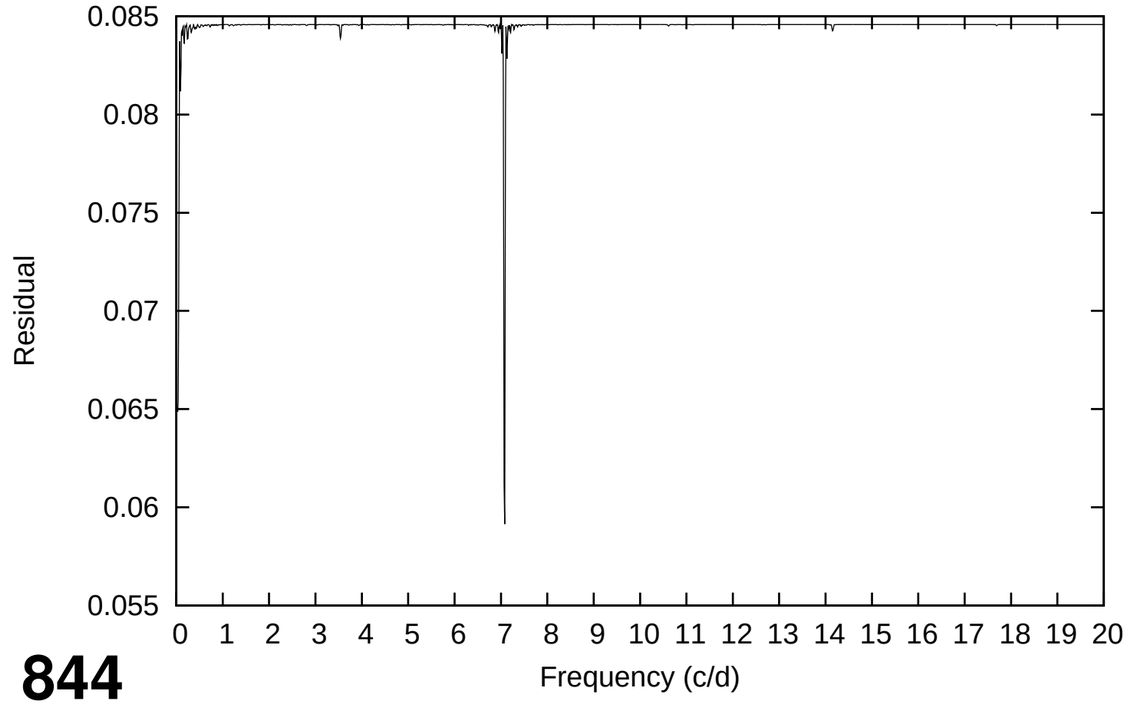

Residual
Frequency (c/d)

590

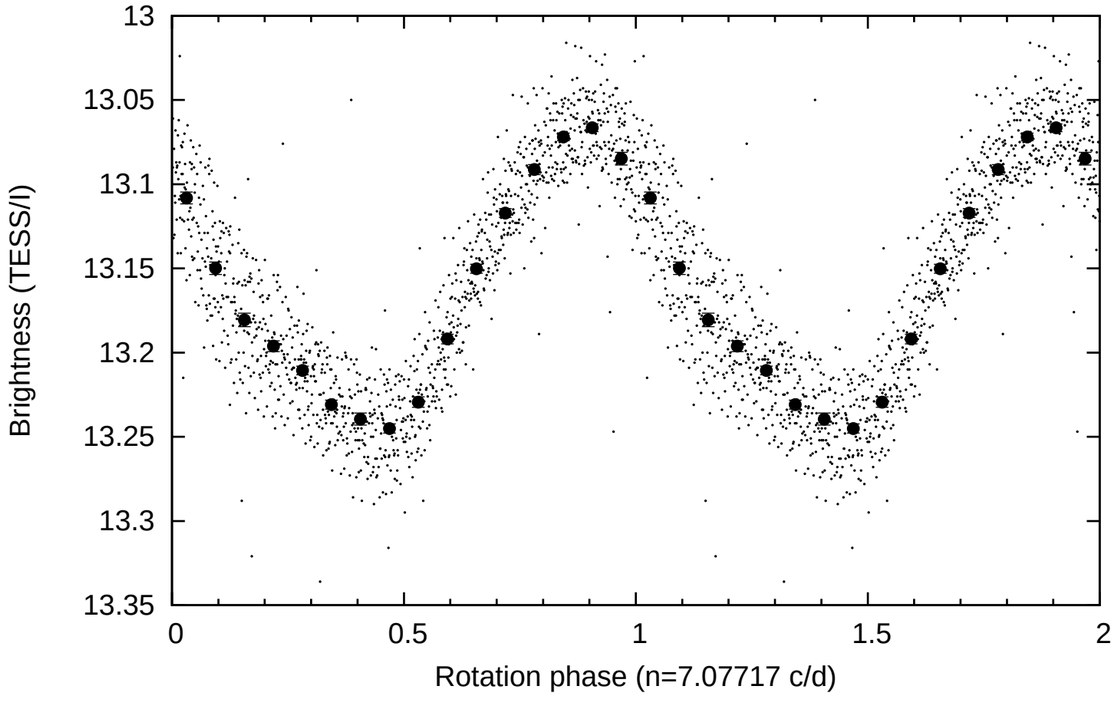

Brightness (TESS/I)
Rotation phase (n=8.64371 c/d)

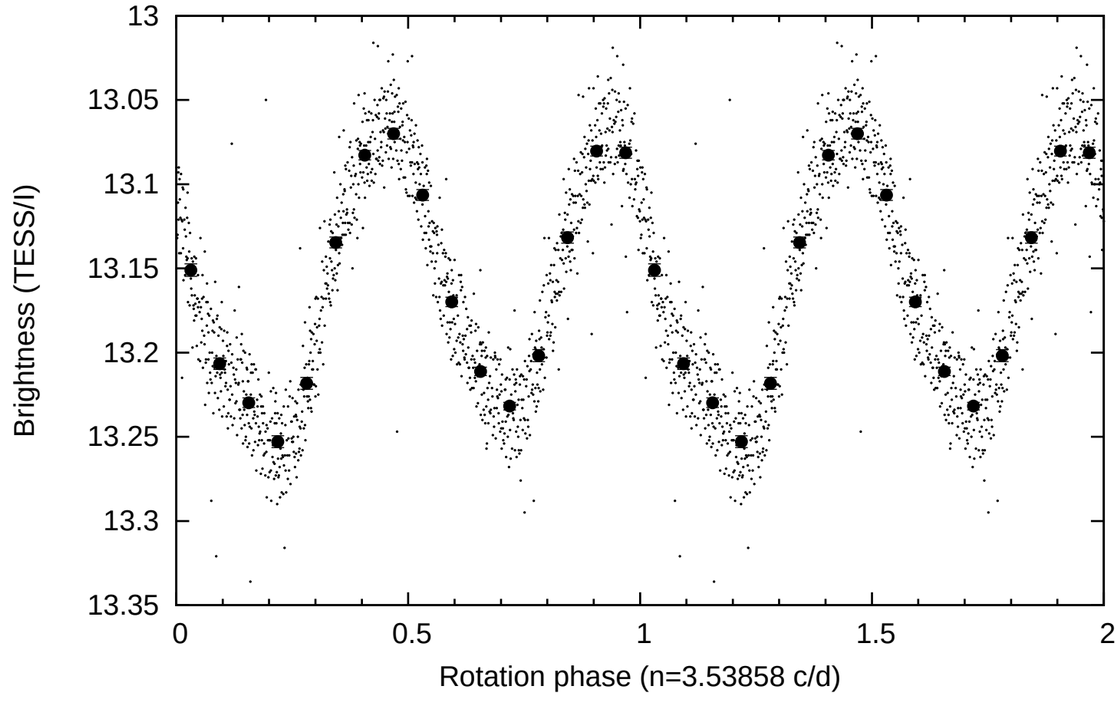

Brightness (TESS/I)
Rotation phase (n=4.32186 c/d)

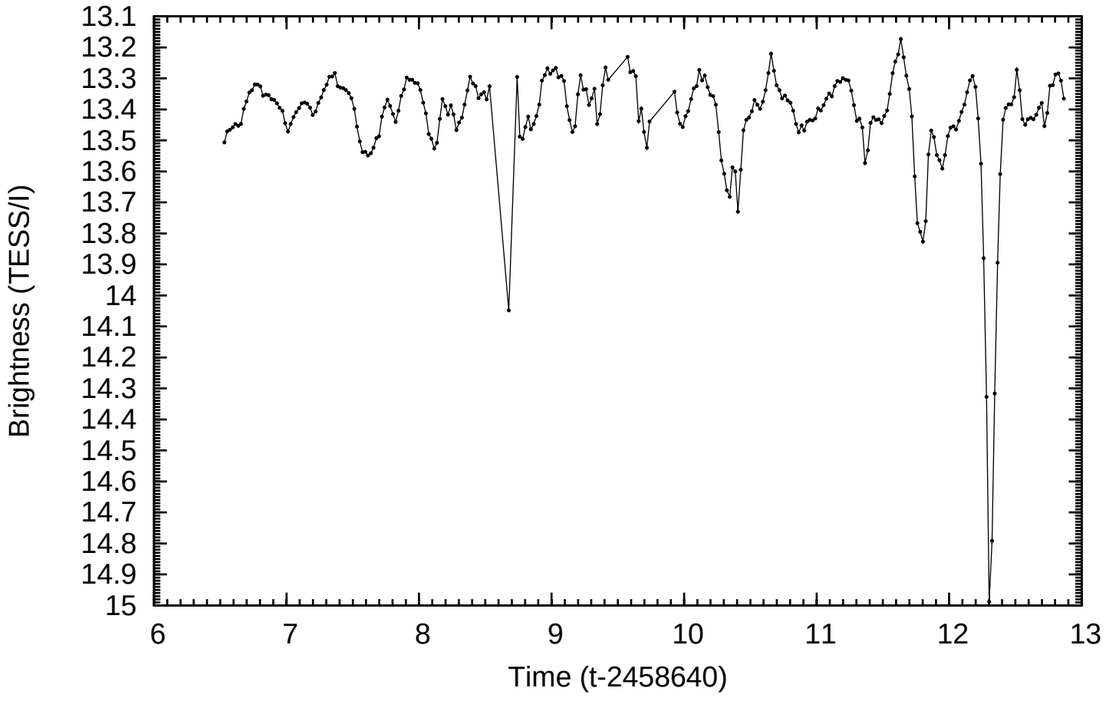

Brightness (TESS/I)
Time (t-2458340)


Residual
Frequency (c/d)

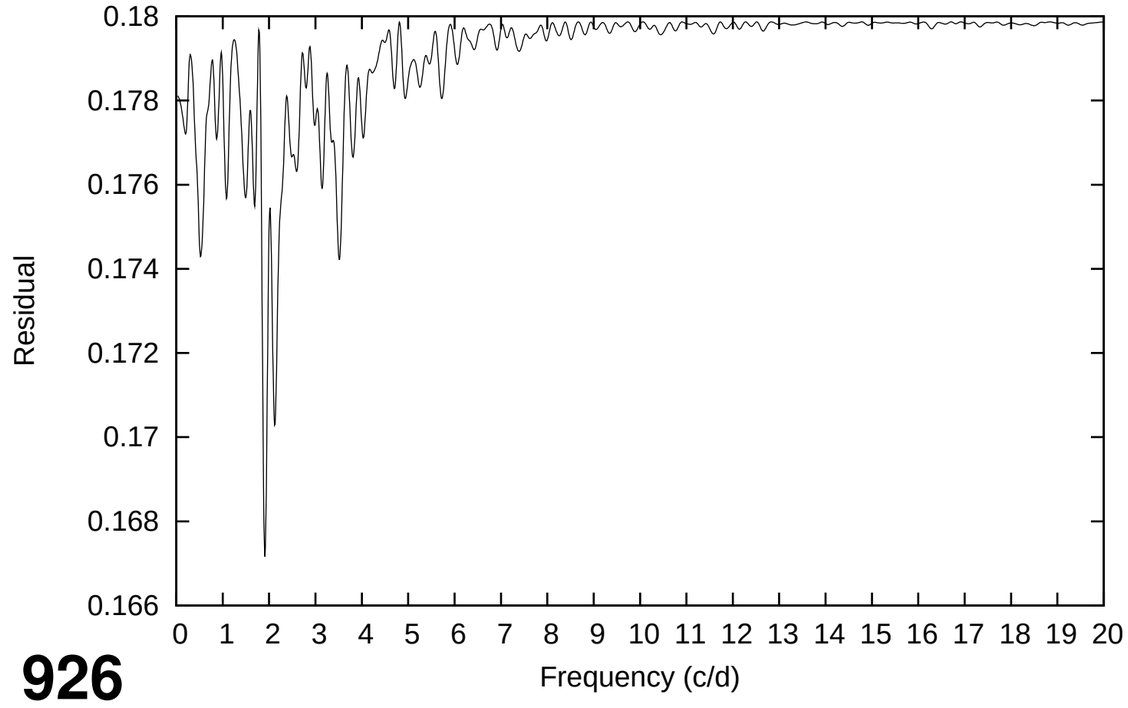
844

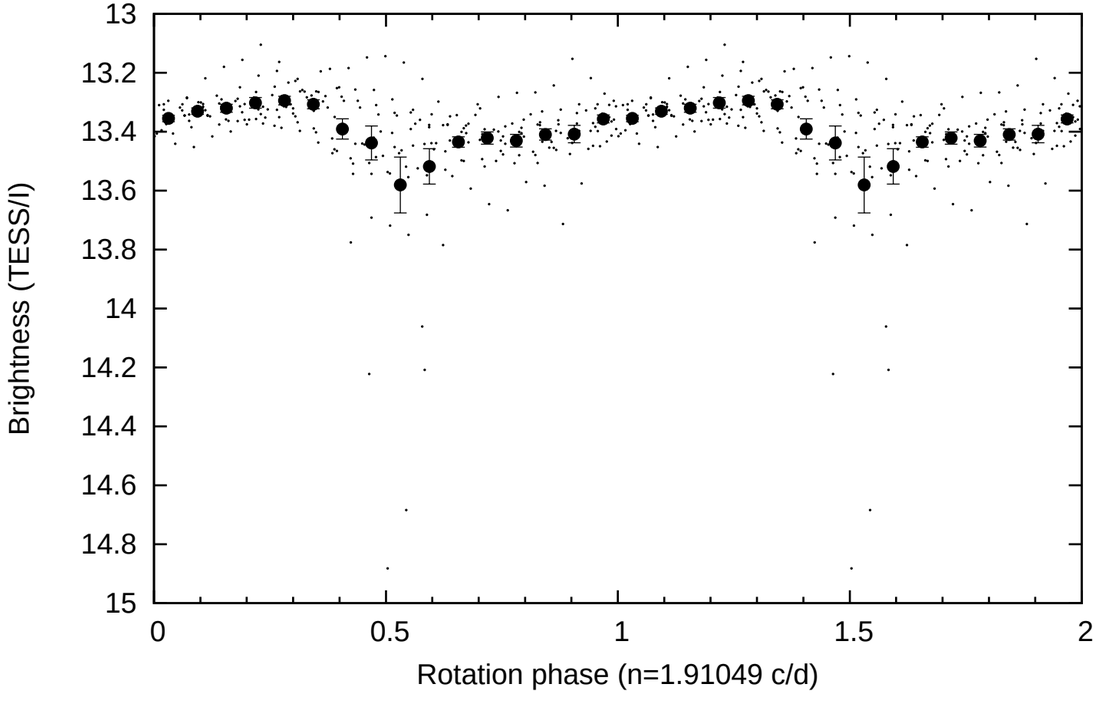

Brightness (TESS/I)
Rotation phase (n=7.07717 c/d)

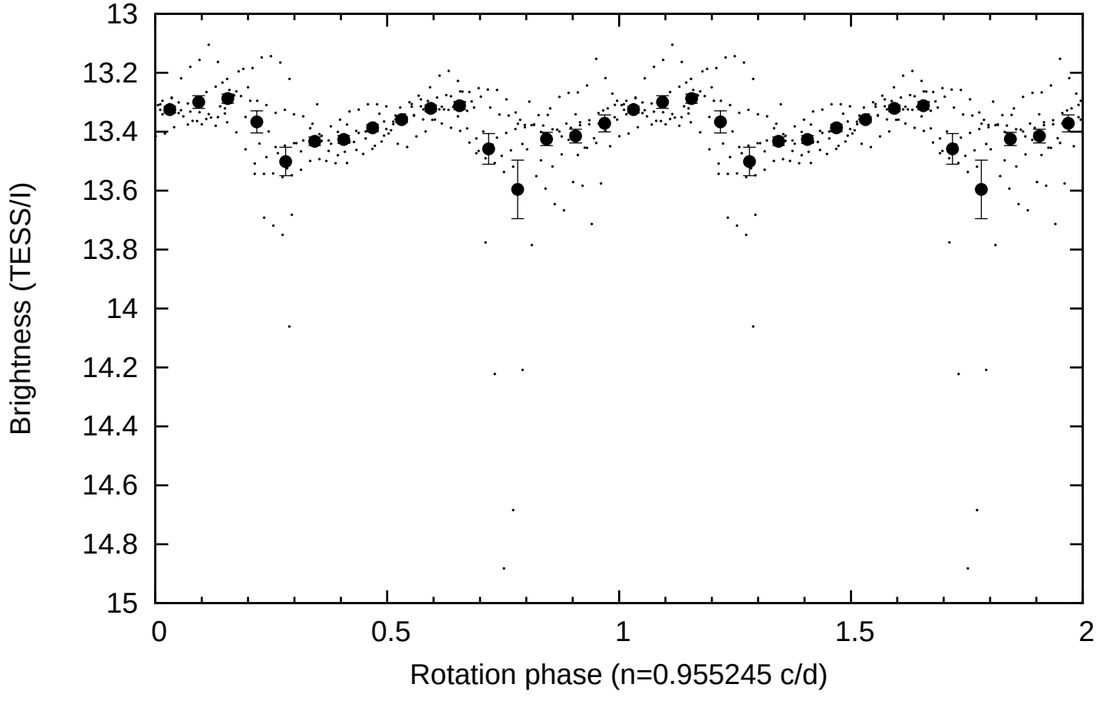

Brightness (TESS/I)
Rotation phase (n=3.53858 c/d)

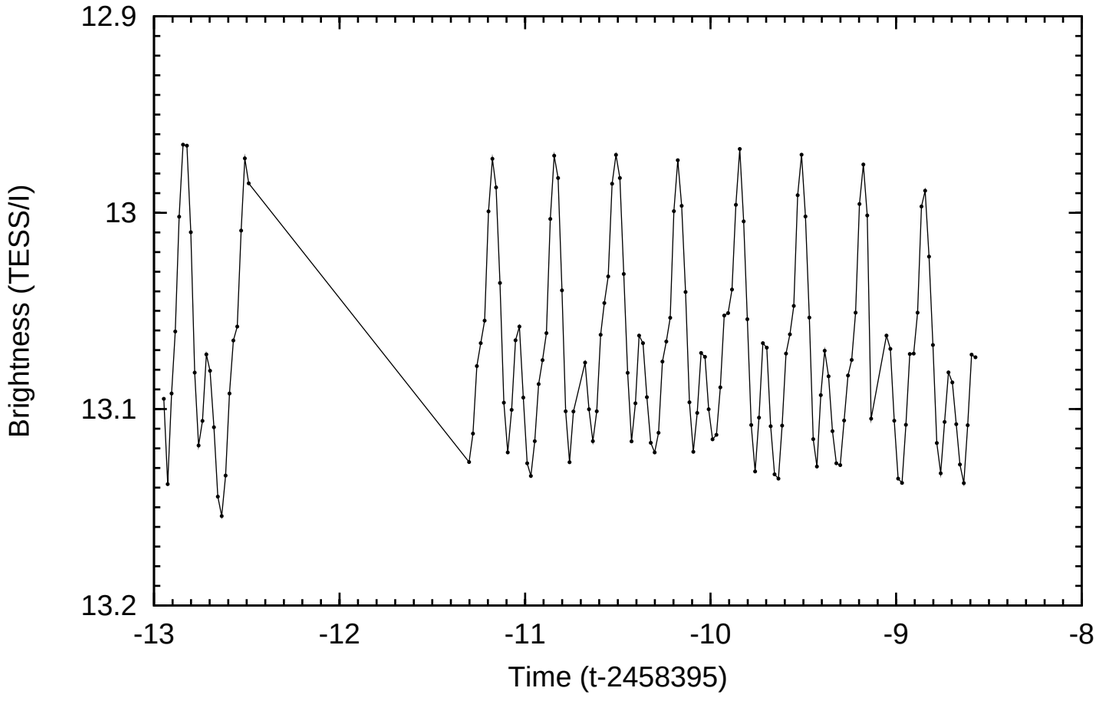

Brightness (TESS/I)
Time (t-2458640)

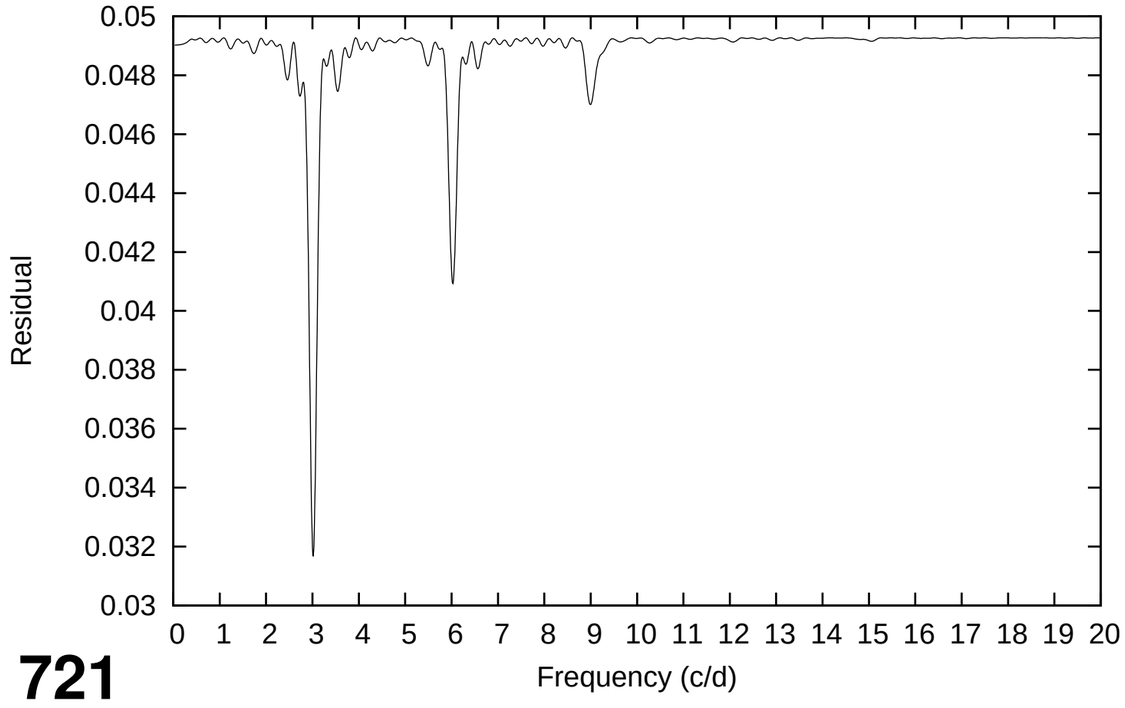
926


Residual
Frequency (c/d)

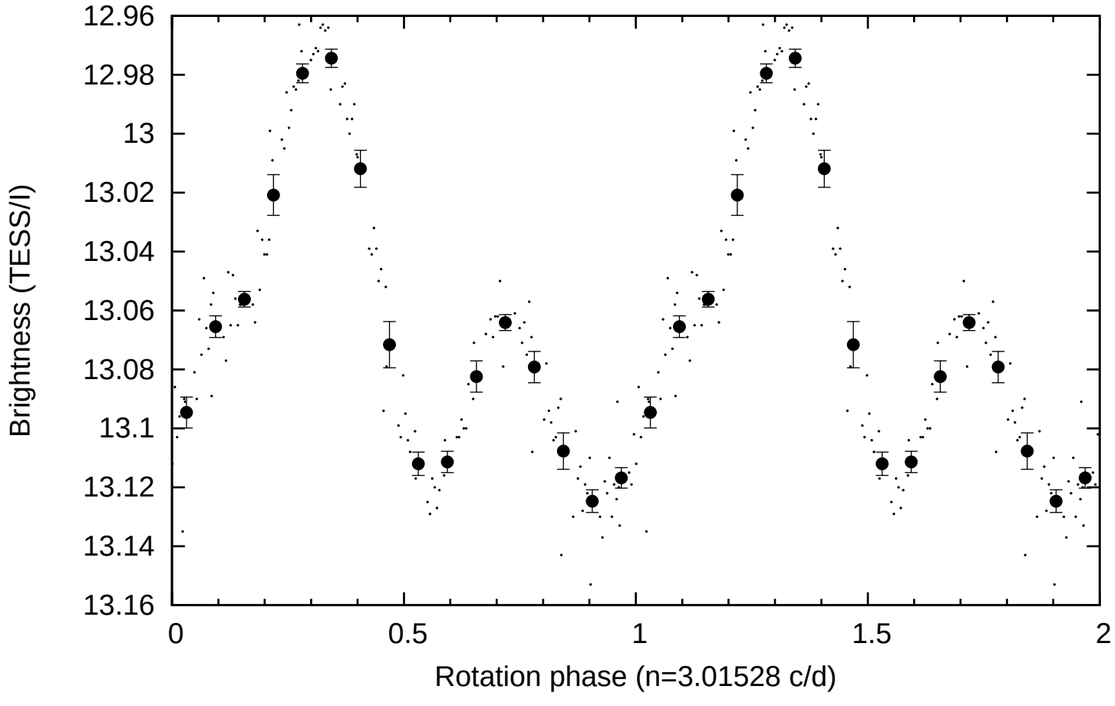

Brightness (TESS/I)
Rotation phase (n=1.91049 c/d)

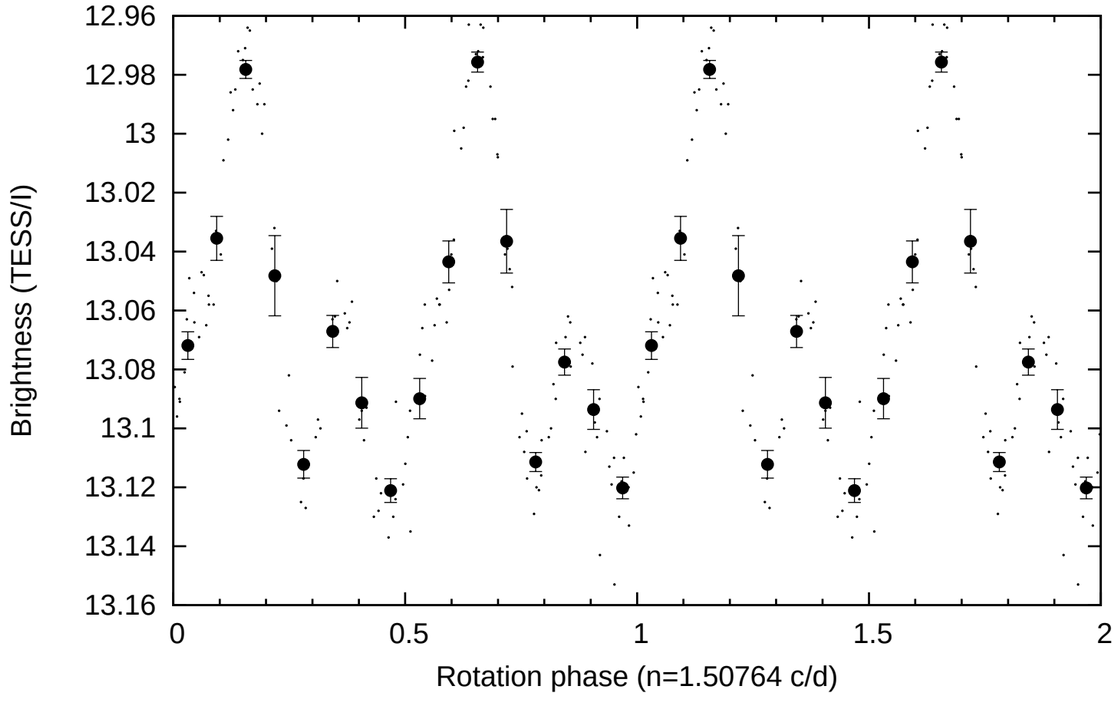

Brightness (TESS/I)
Rotation phase (n=0.955245 c/d)


Brightness (TESS/I)
Time (t-2458395)
12.9
13
13.1
13.2
-13
-12
-11
-10
-9
-8

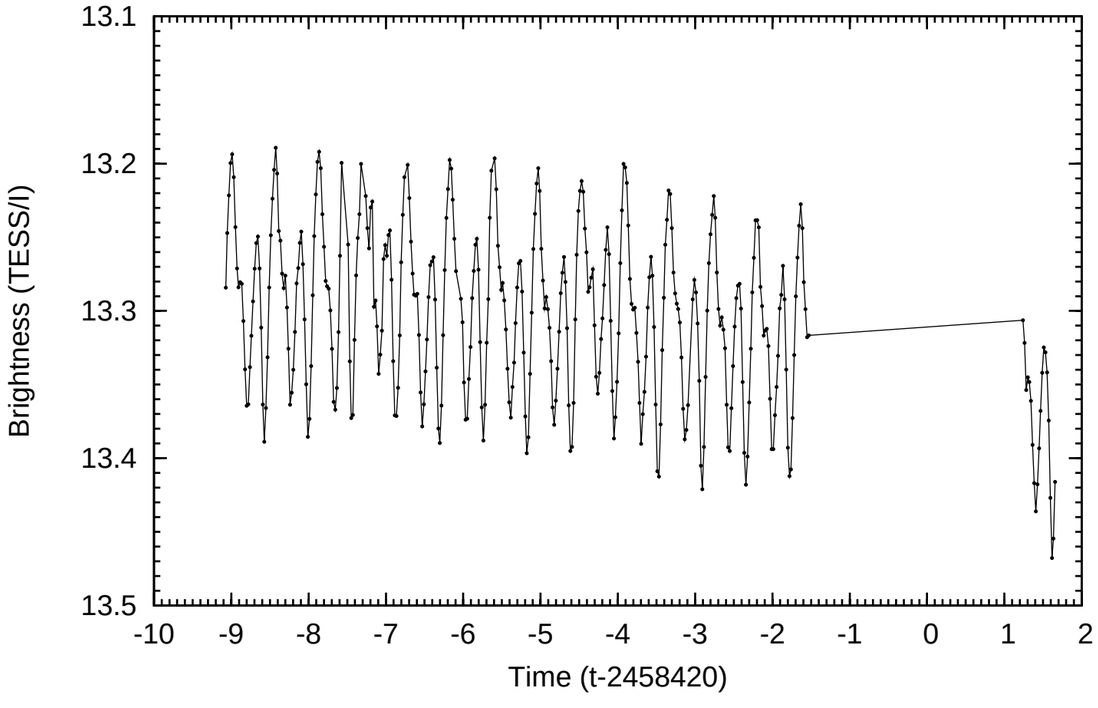

Residual
Frequency (c/d)
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

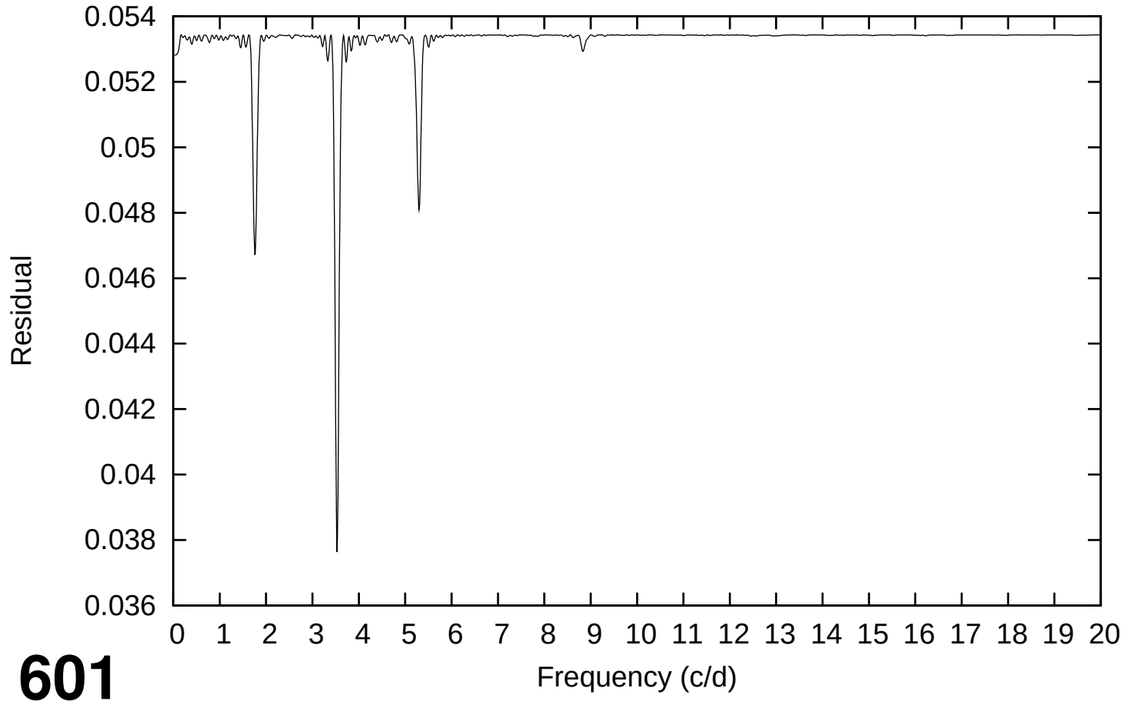
721

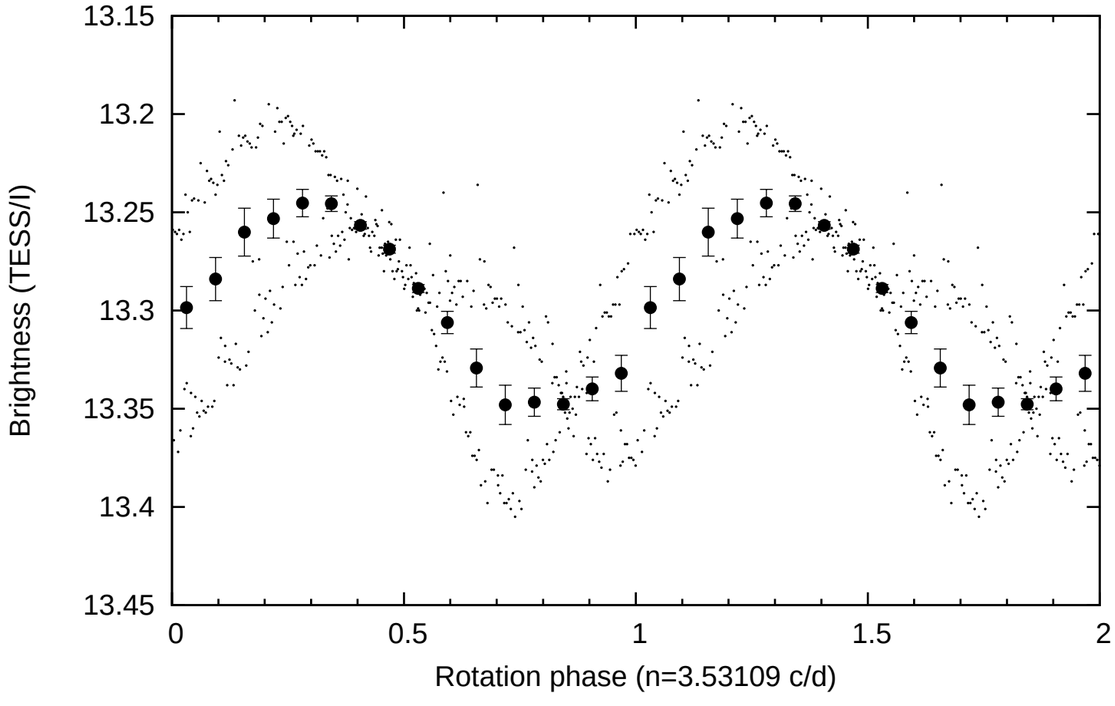

Brightness (TESS/I)
Rotation phase (n=3.01528 c/d)
12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
13.12
13.14
13.16
0
0.5
1
1.5
2

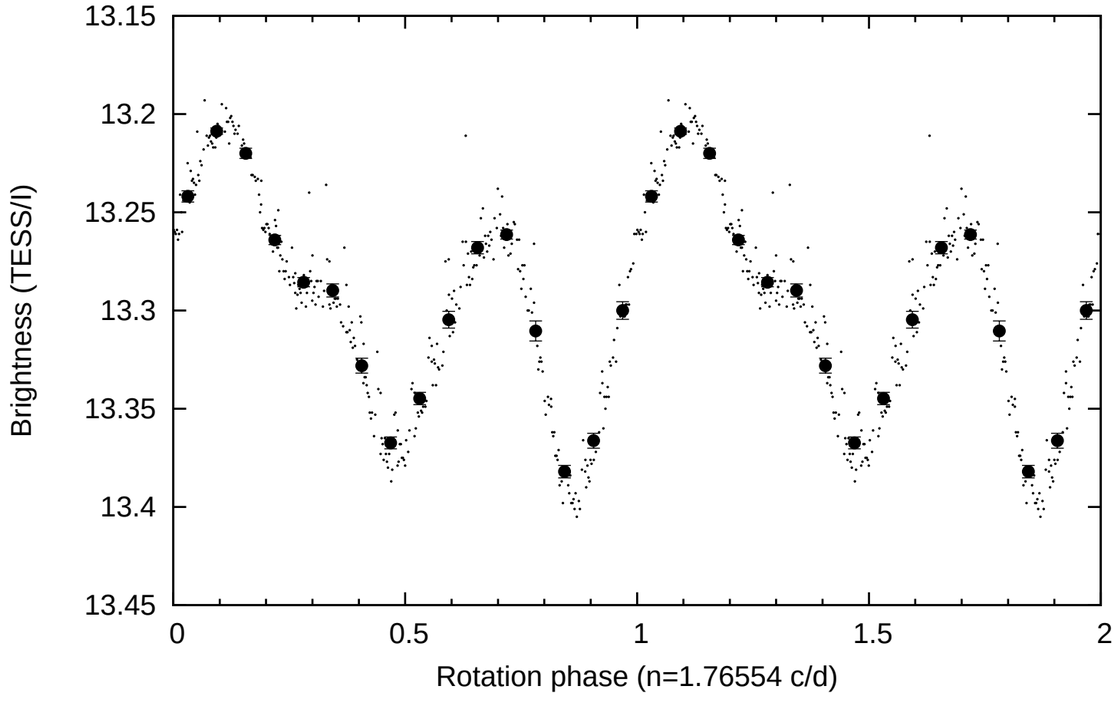

Brightness (TESS/I)
Rotation phase (n=1.50764 c/d)
12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
13.12
13.14
13.16
0
0.5
1
1.5
2

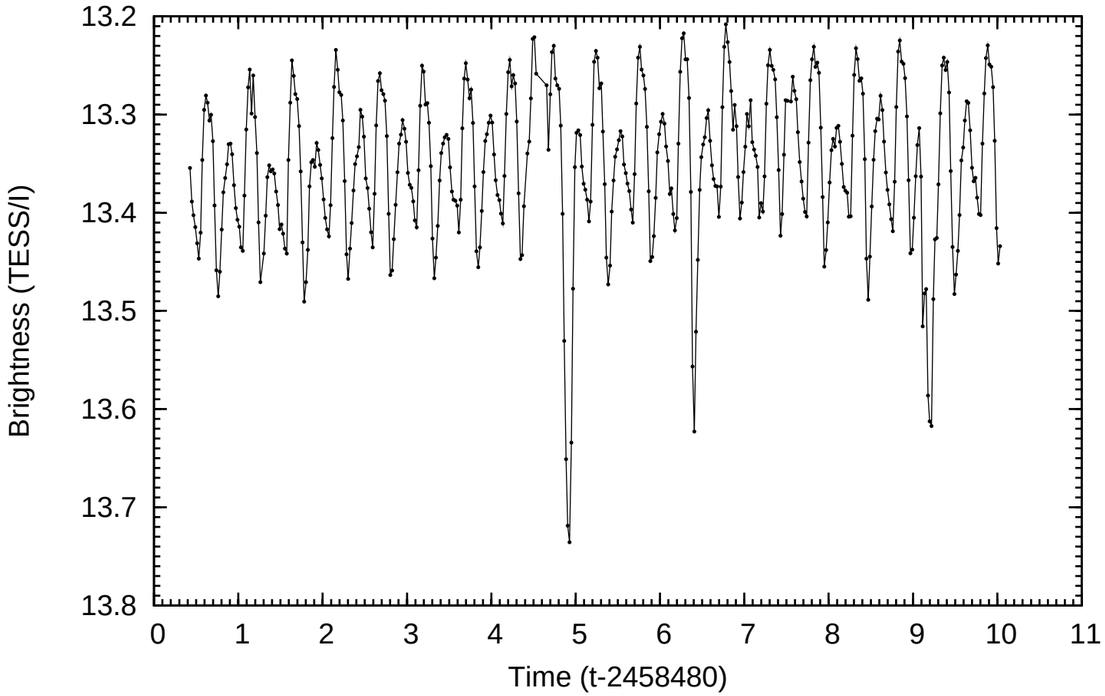
601

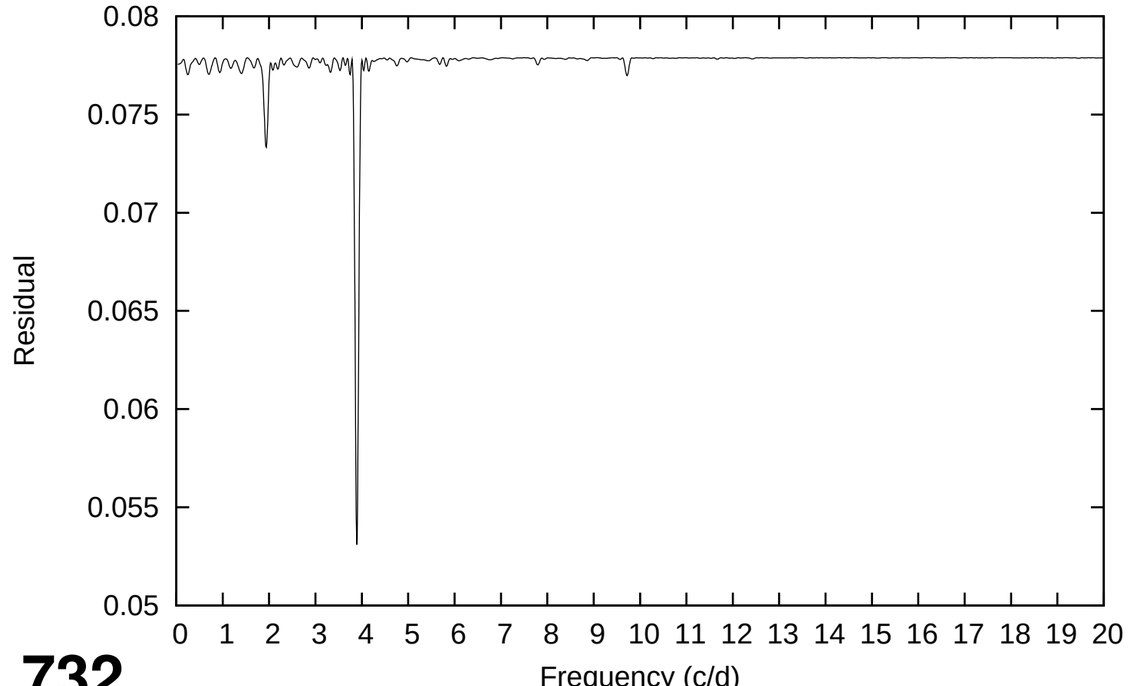

Brightness (TESS/I)
Time (t-2458420)
13.1
13.2
13.3
13.4
13.5
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
0
1
2


Residual
Frequency (c/d)
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

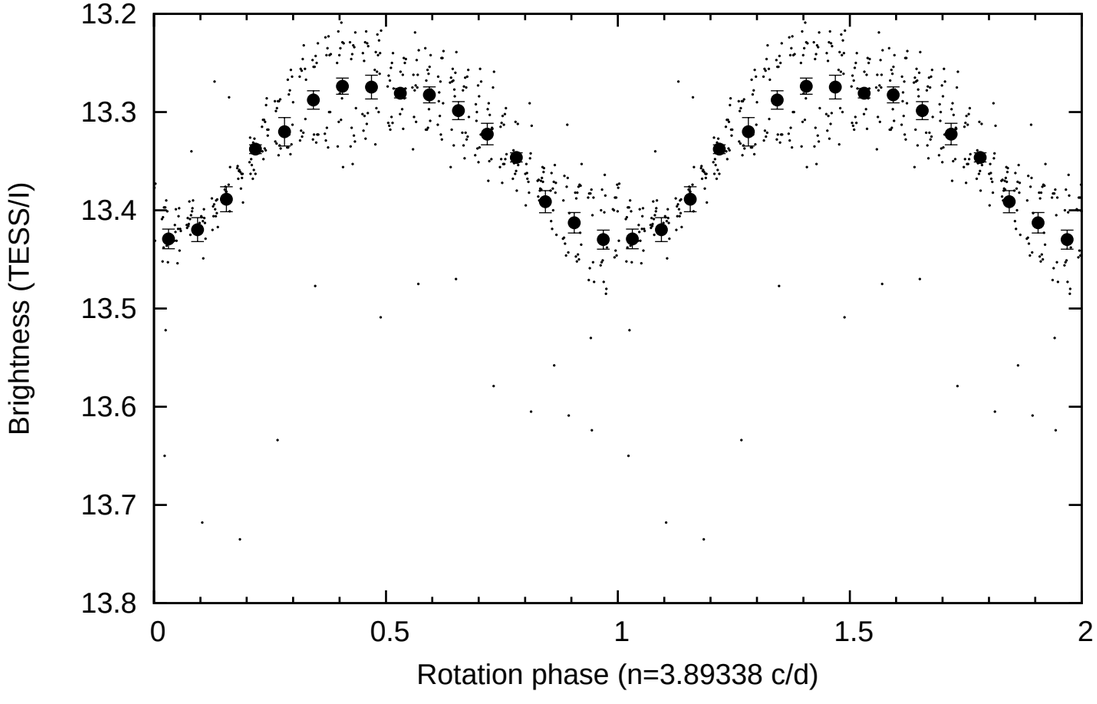

Brightness (TESS/I)
Rotation phase (n=3.53109 c/d)
13.15
13.2
13.25
13.3
13.35
13.4
13.45
0
0.5
1
1.5
2

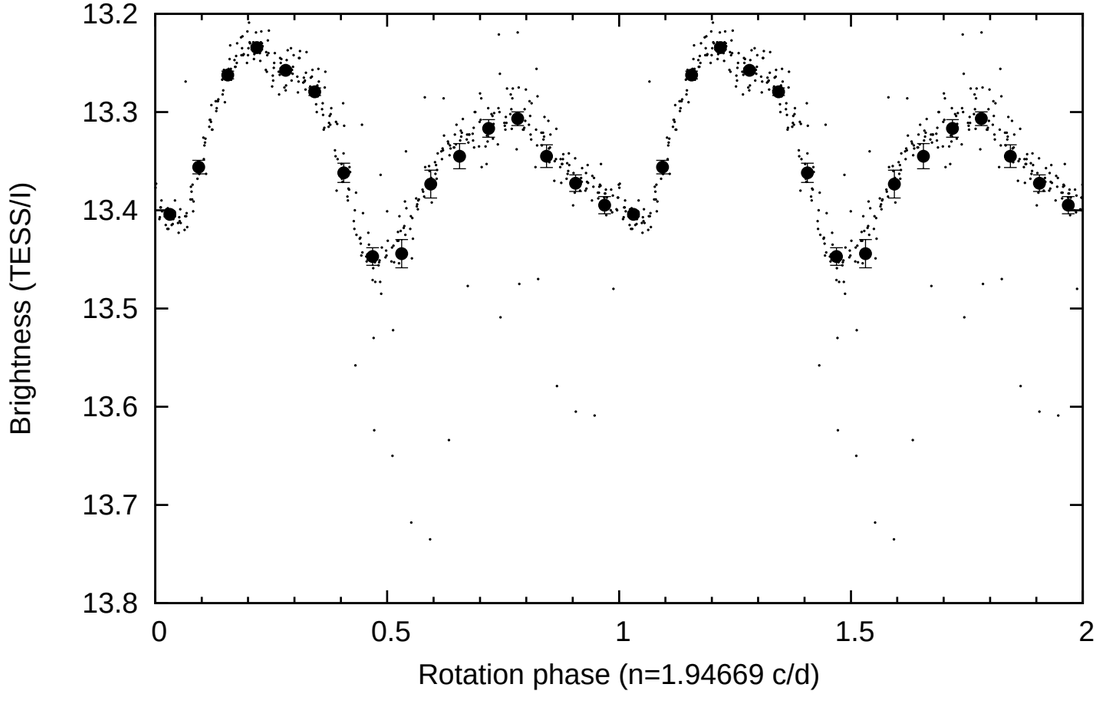

Brightness (TESS/I)
Rotation phase (n=1.76554 c/d)
13.15
13.2
13.25
13.3
13.35
13.4
13.45
0
0.5
1
1.5
2


Brightness (TESS/I)
Time (t-2458480)

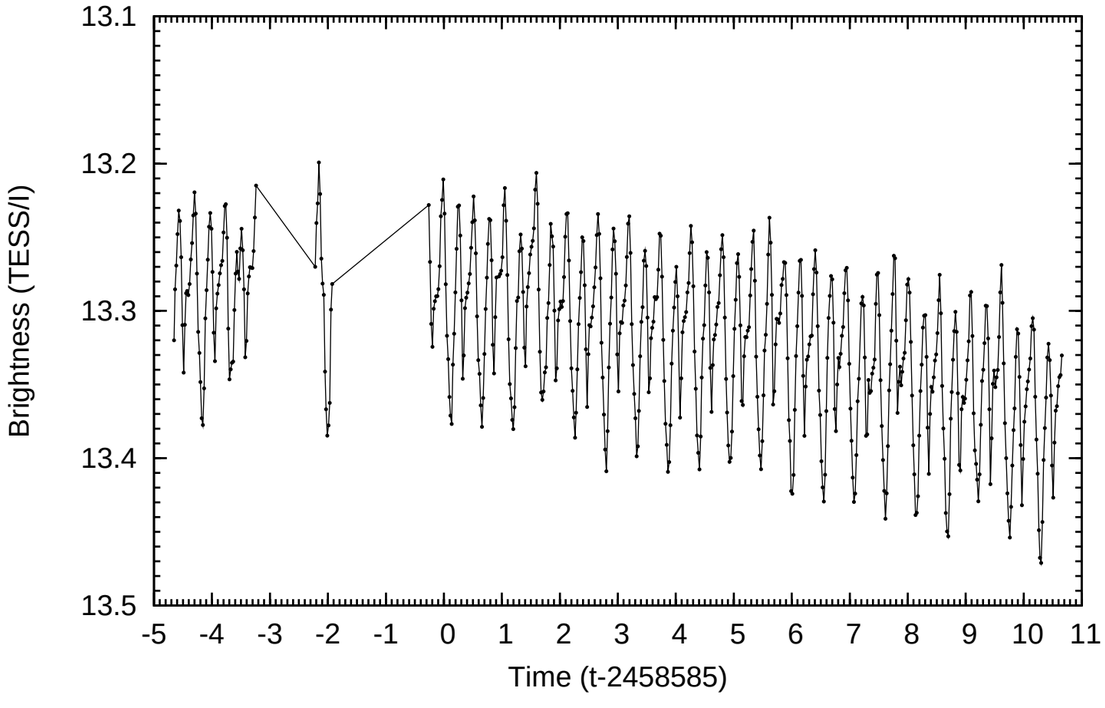

Residual
Frequency (c/d)

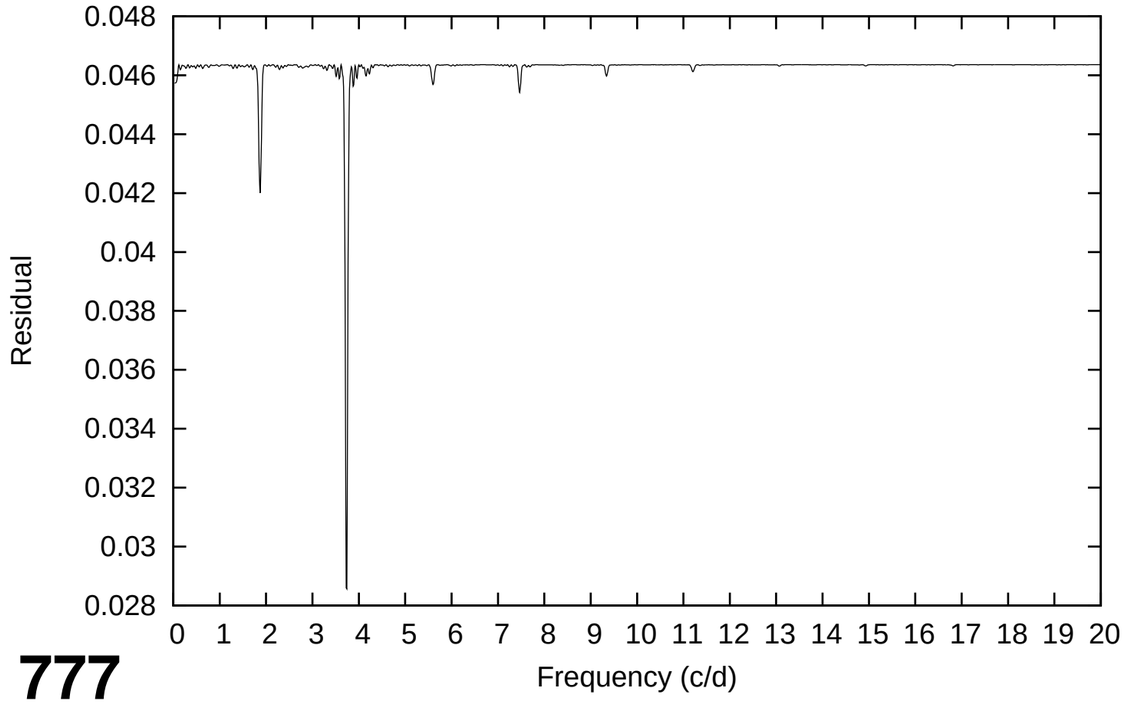
732

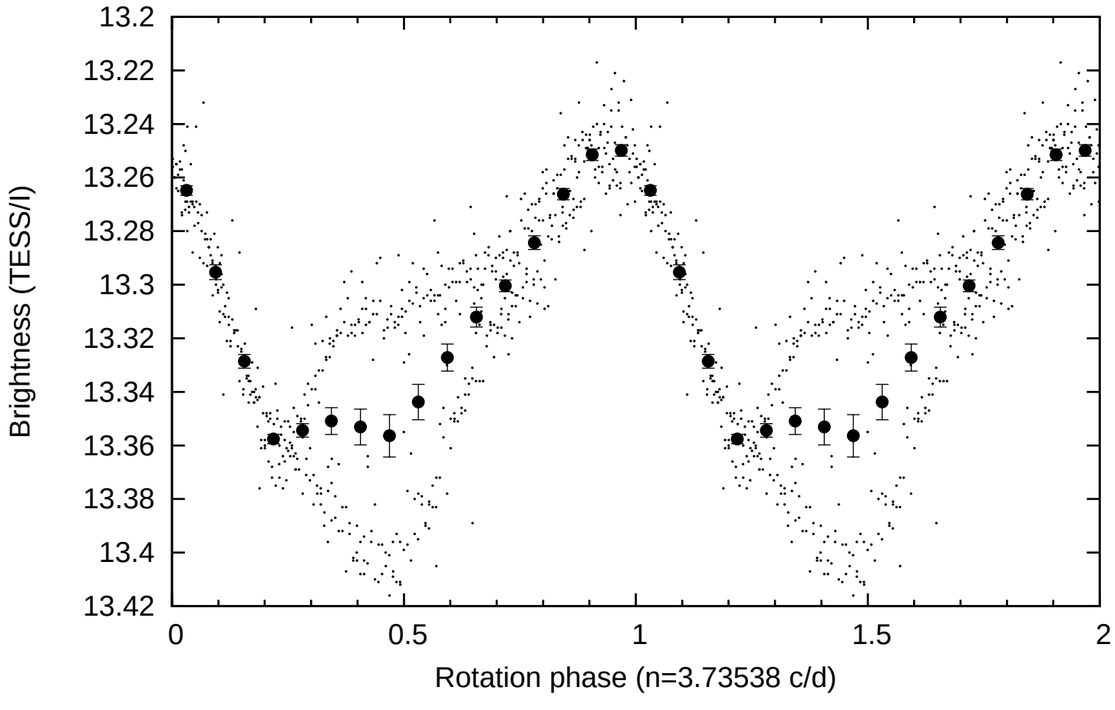

Brightness (TESS/I)
Rotation phase (n=3.89338 c/d)

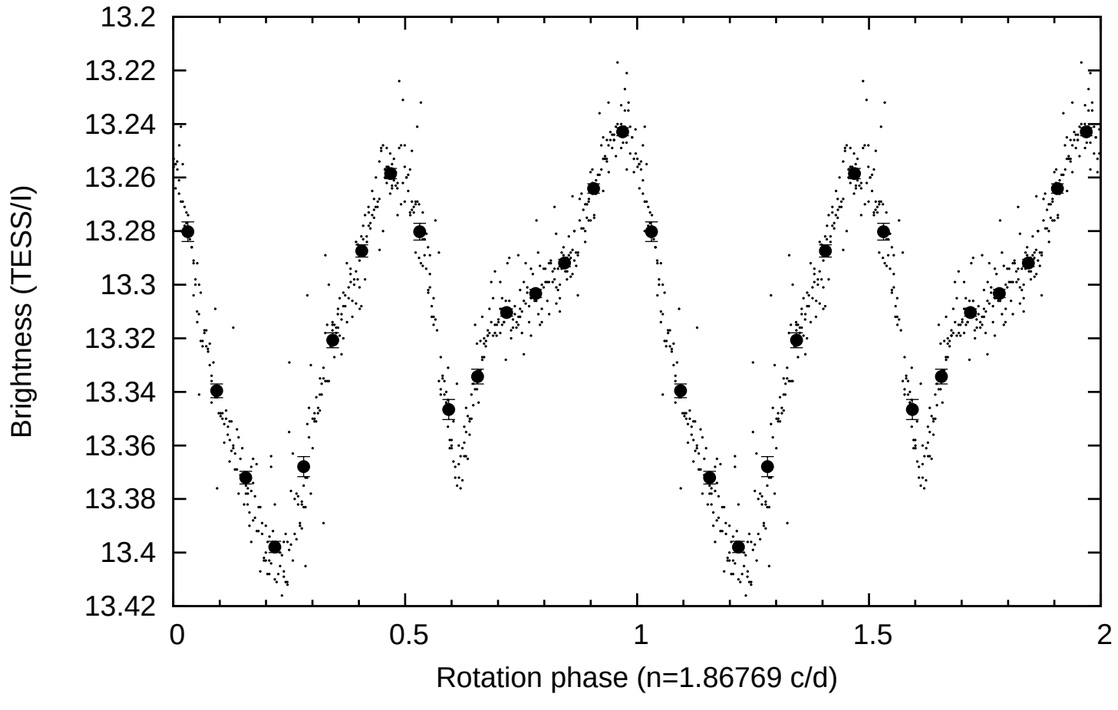

Brightness (TESS/I)
Rotation phase (n=1.94669 c/d)

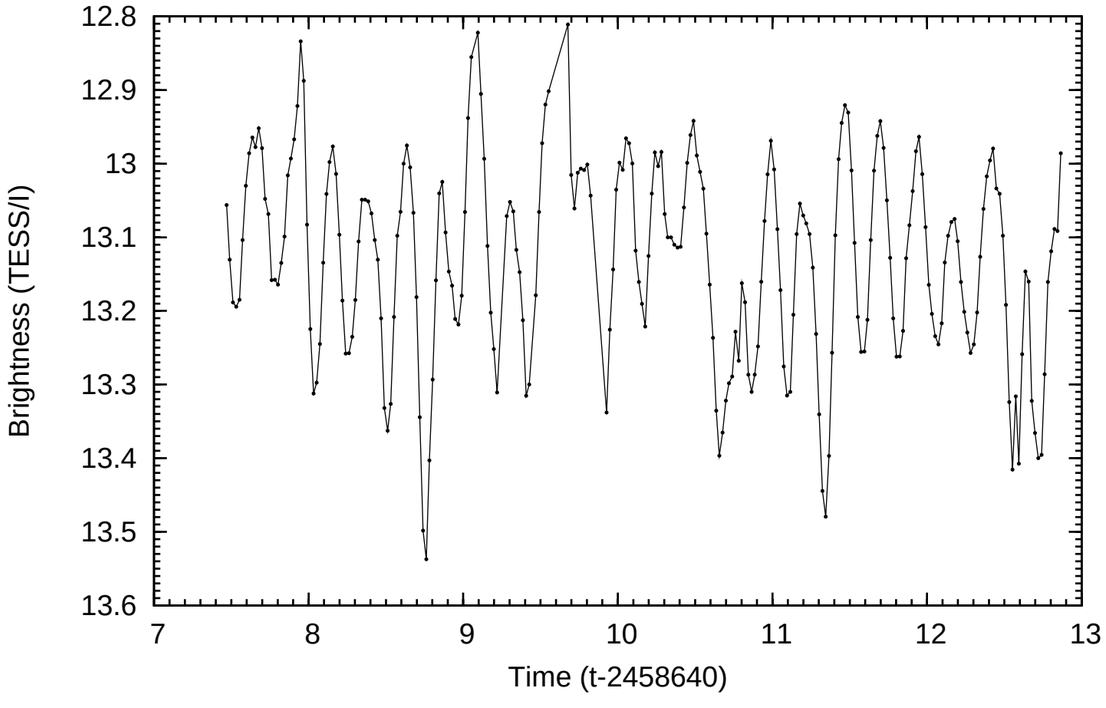
777


Brightness (TESS/I)
13.1
13.2
13.3
13.4
13.5
-5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (t-2458585)

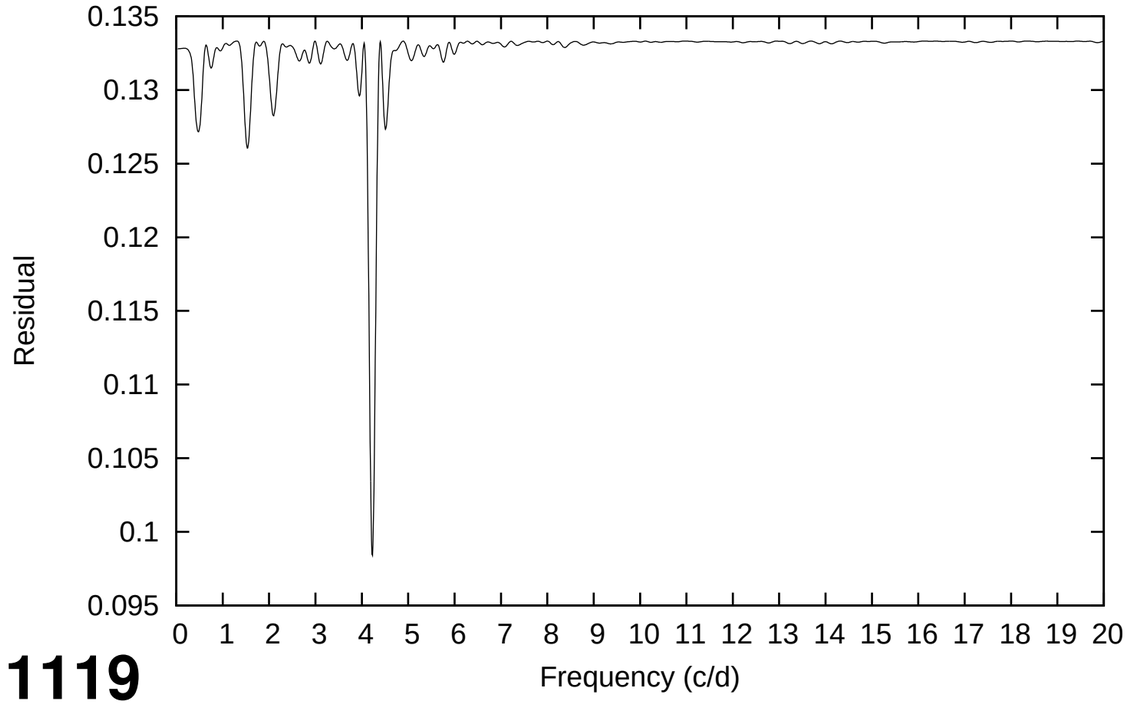

Residual
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

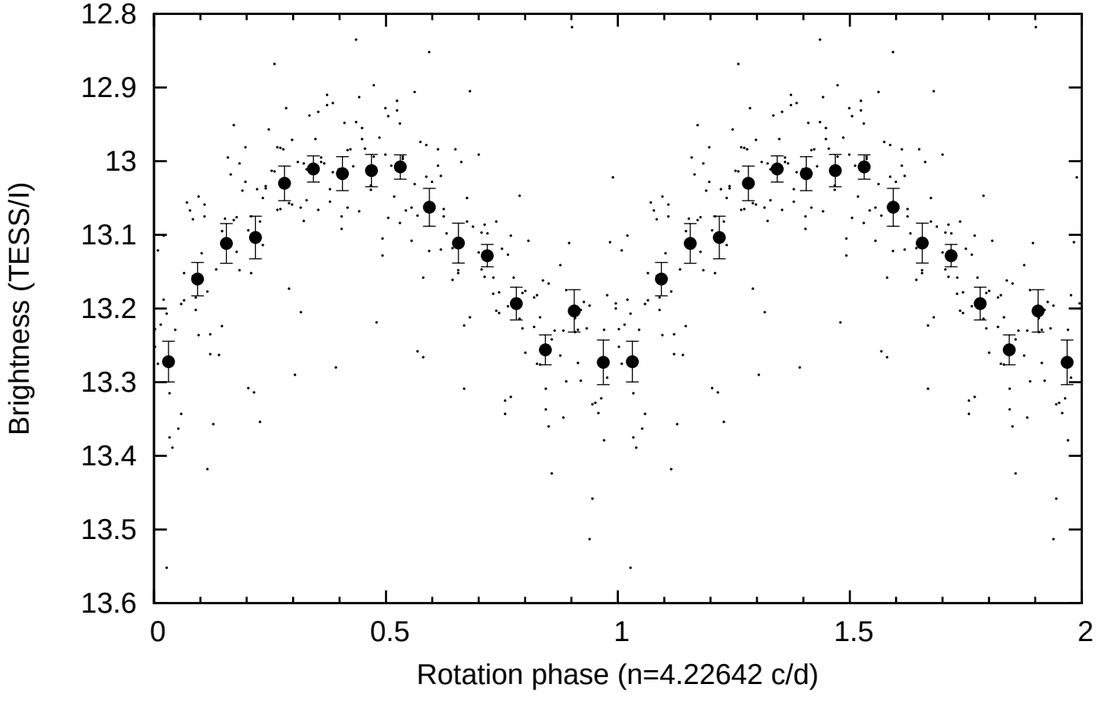

Brightness (TESS/I)
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
13.36
13.38
13.4
13.42
0 0.5 1 1.5 2
Rotation phase (n=3.73538 c/d)

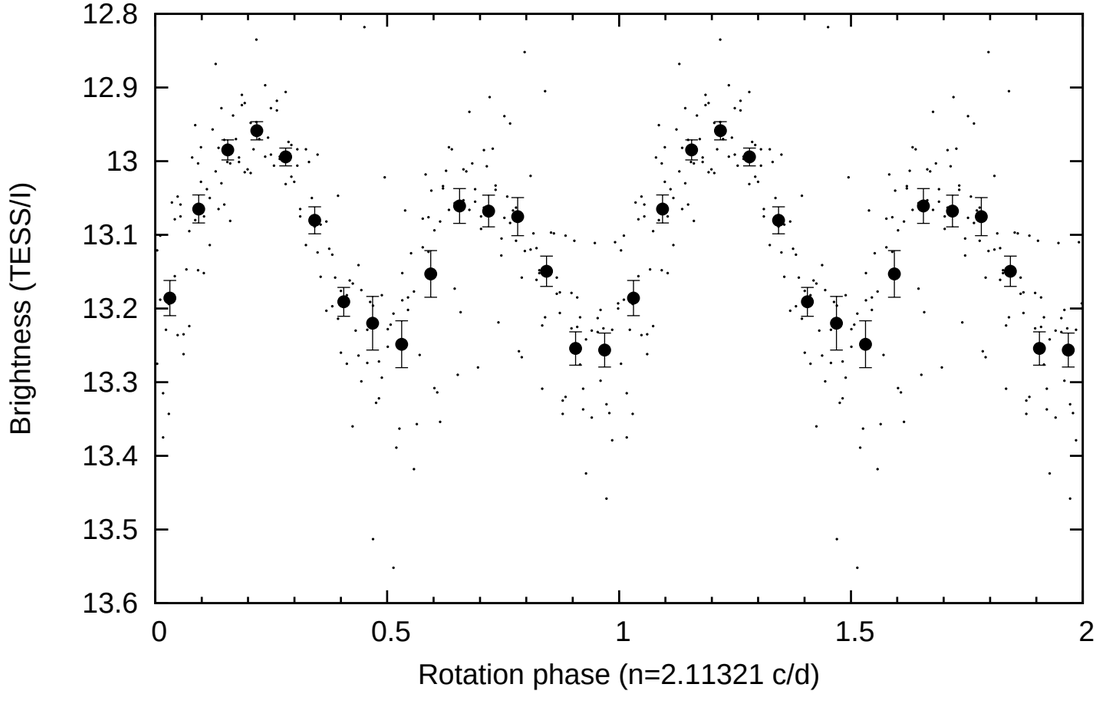

Brightness (TESS/I)
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
13.36
13.38
13.4
13.42
0 0.5 1 1.5 2
Rotation phase (n=1.86769 c/d)

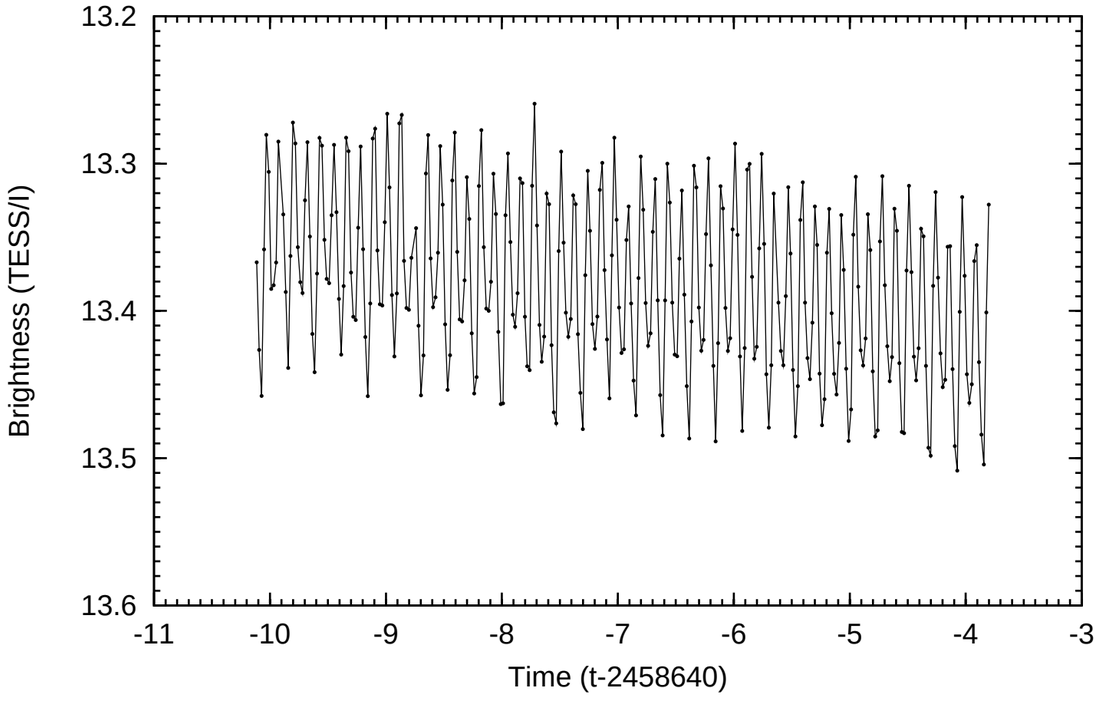

Brightness (TESS/I)
Time (t-2458640)

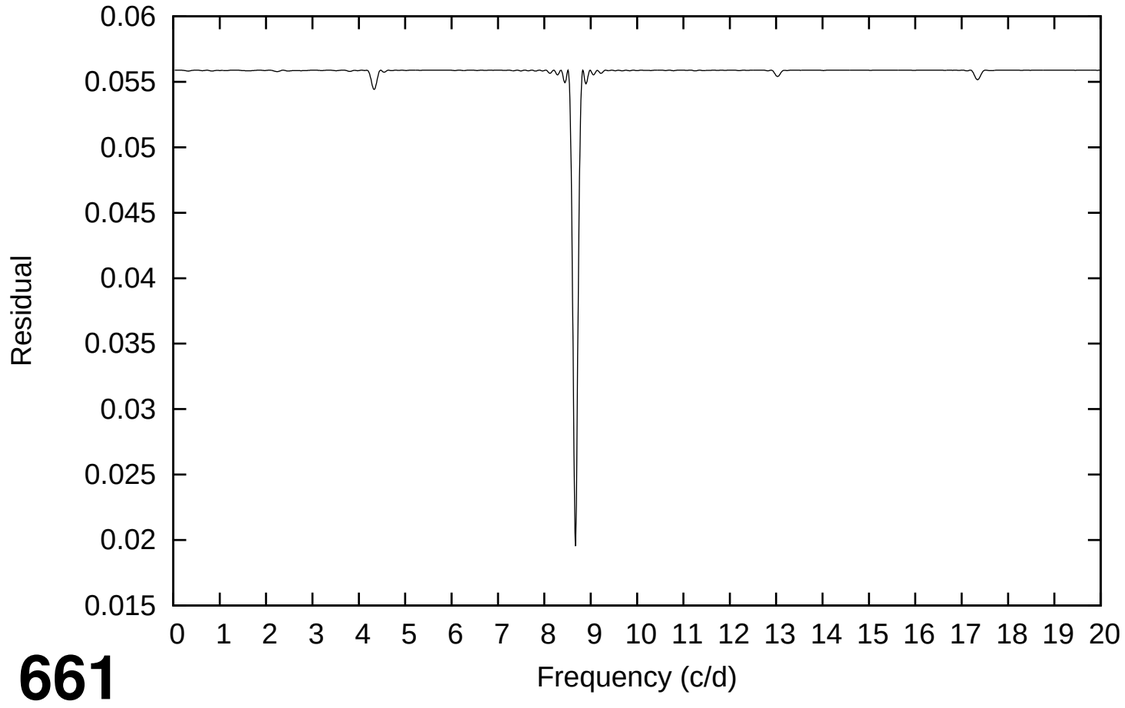
1119


Residual
Frequency (c/d)

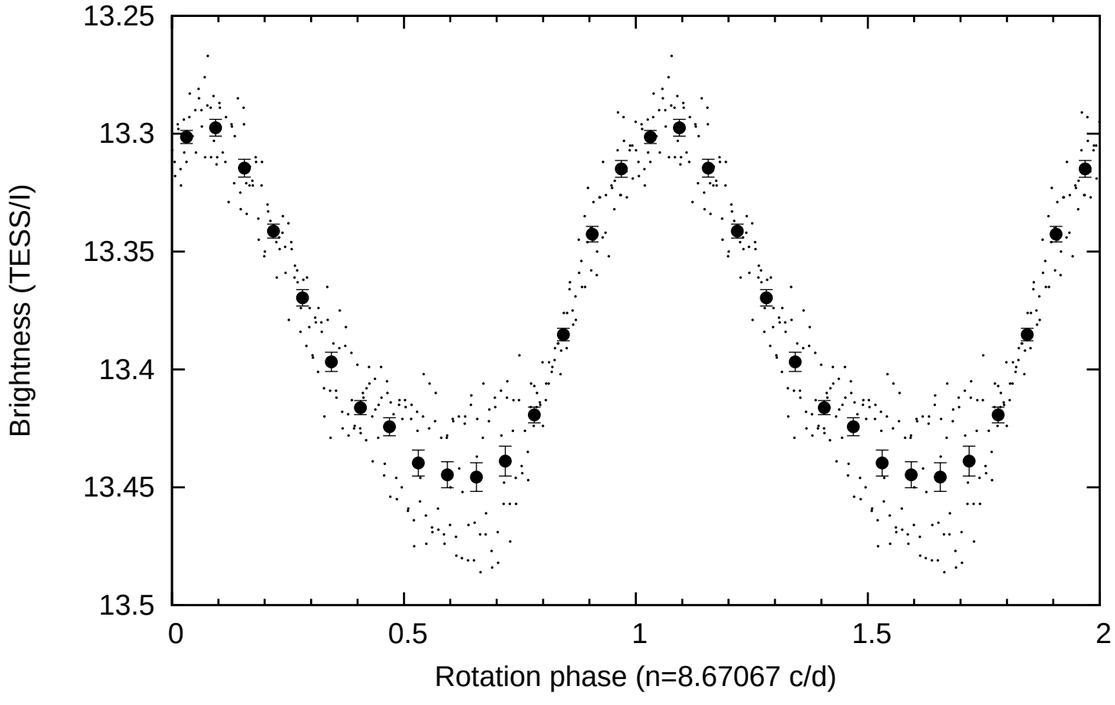

Brightness (TESS/I)
Rotation phase (n=4.22642 c/d)

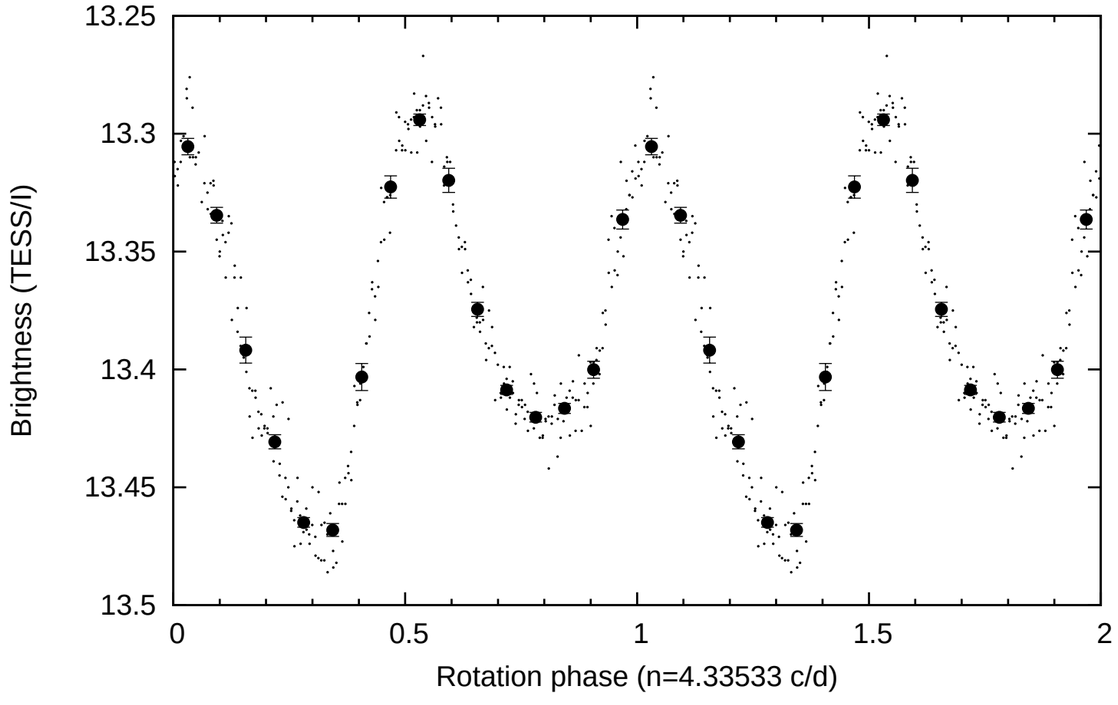

Brightness (TESS/I)
Rotation phase (n=2.11321 c/d)

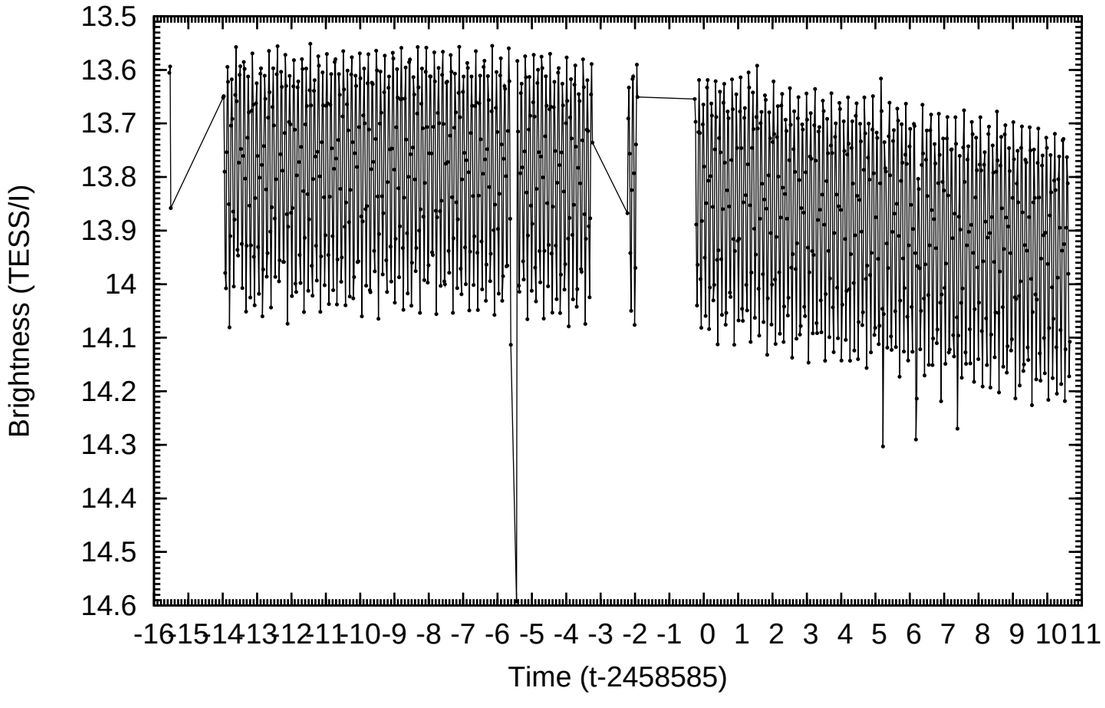

13.2
13.3
13.4
13.5
13.6
Brightness (TESS/I)
-11
-10
-9
-8
-7
-6
-5
-4
-3
Time (t-2458640)

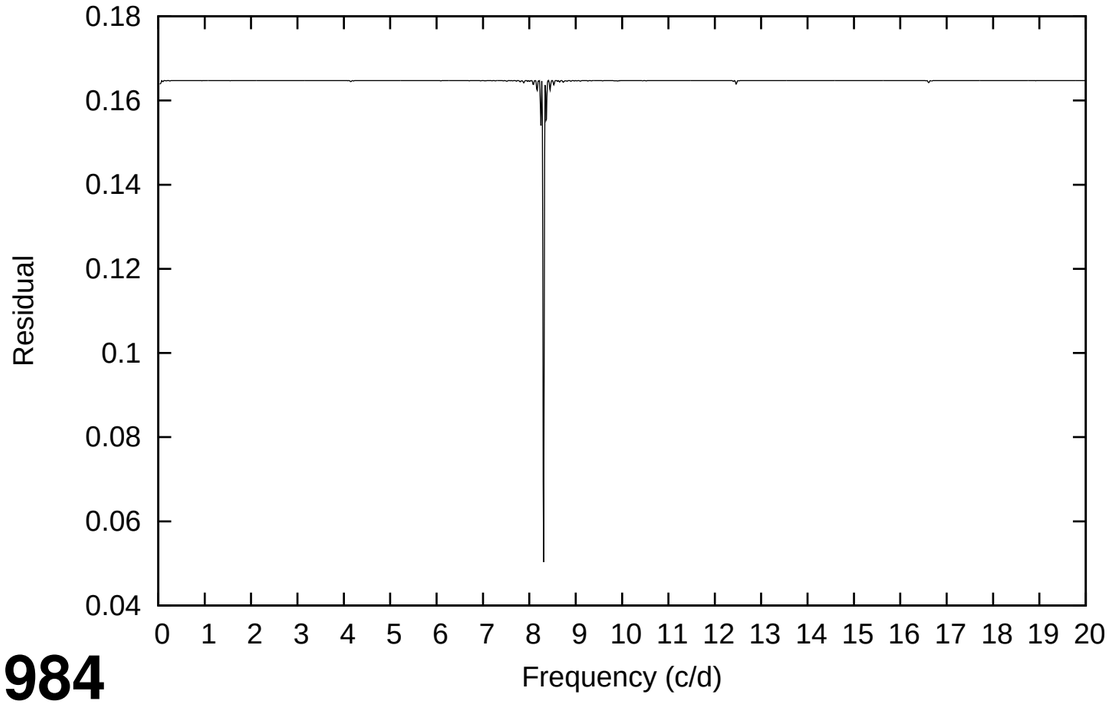

0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

661

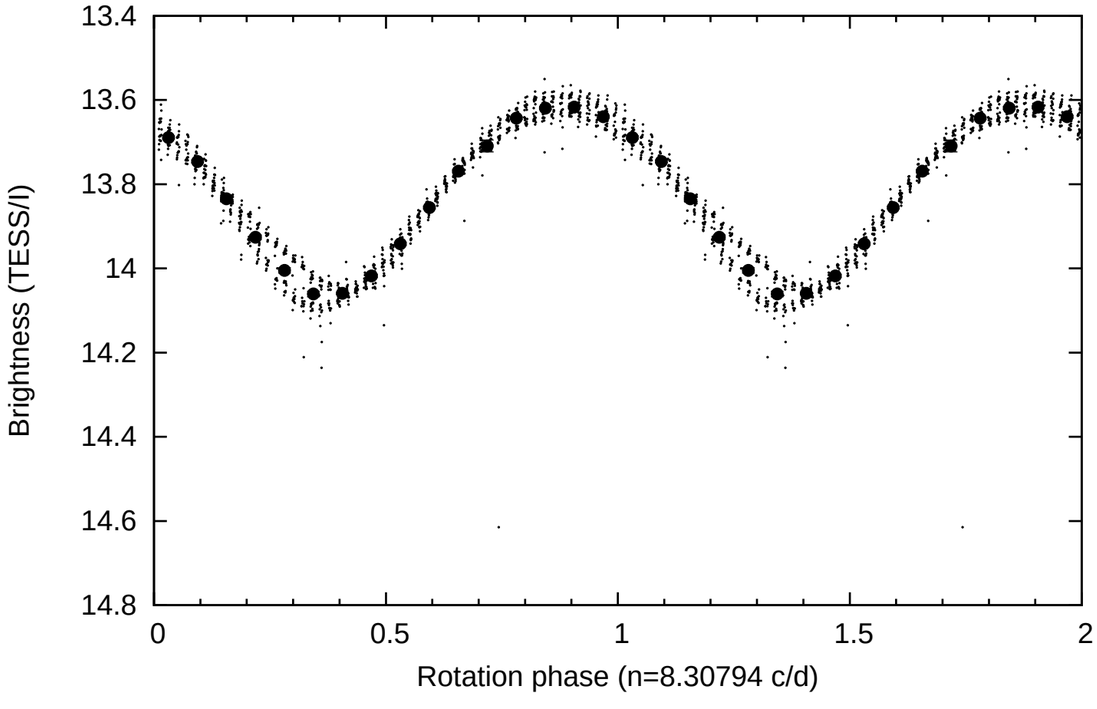

13.25
13.3
13.35
13.4
13.45
13.5
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=8.67067 c/d)

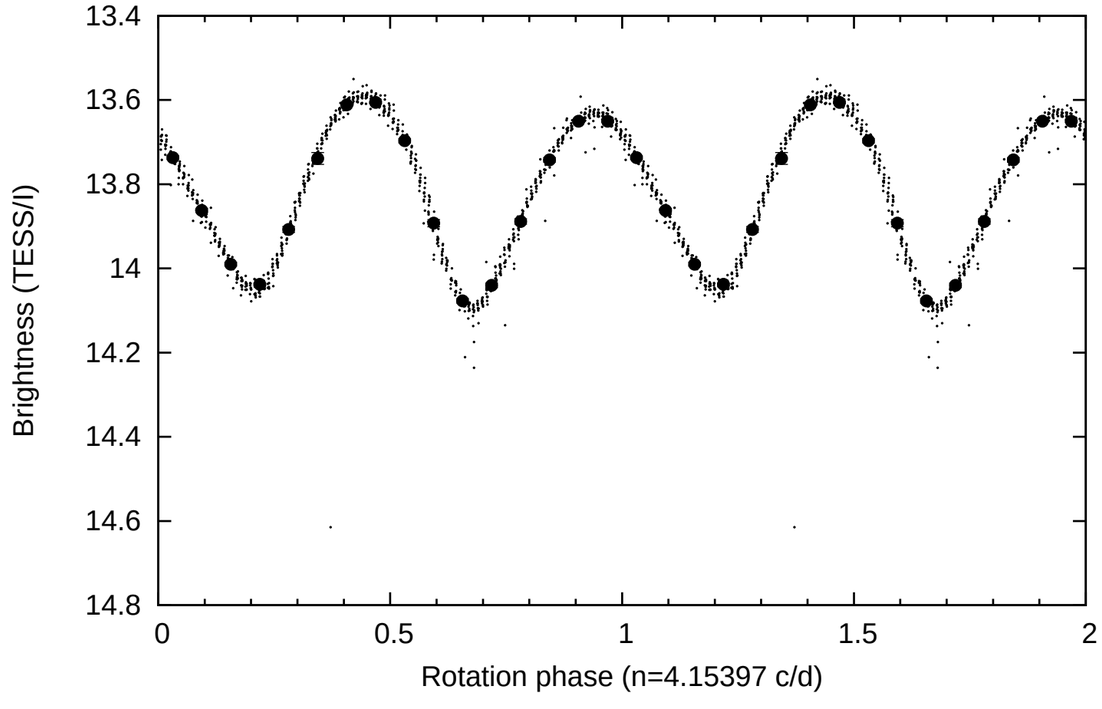

13.25
13.3
13.35
13.4
13.45
13.5
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=4.33533 c/d)

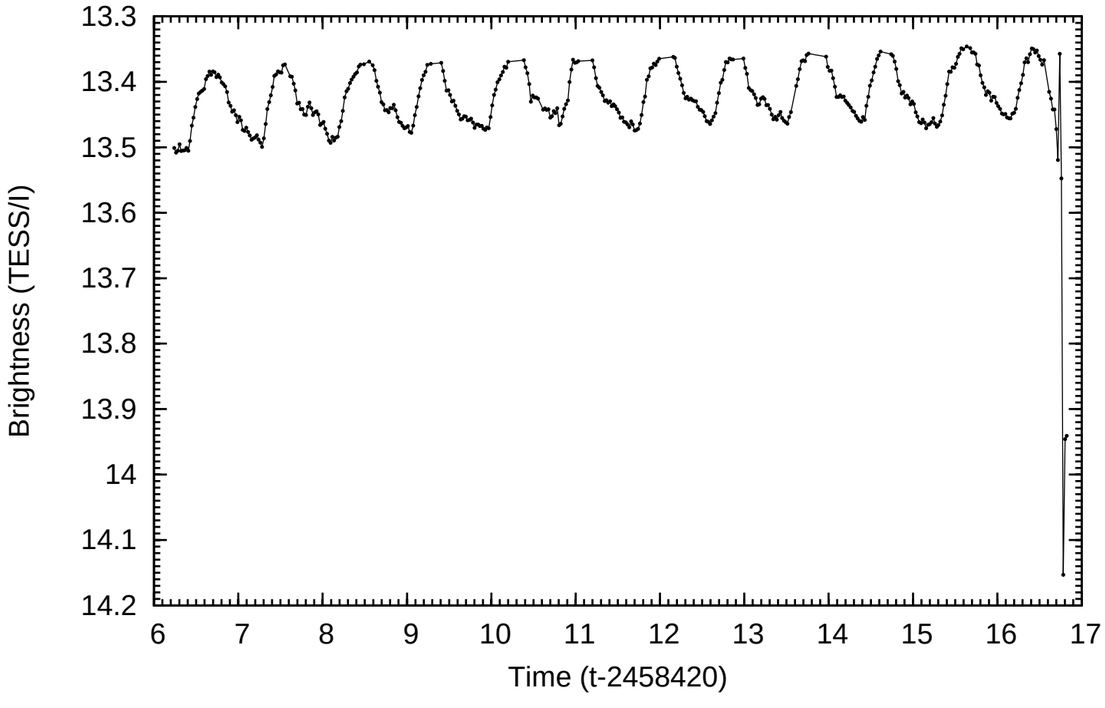

Brightness (TESS/I)
Time (t-2458585)


Residual
Frequency (c/d)

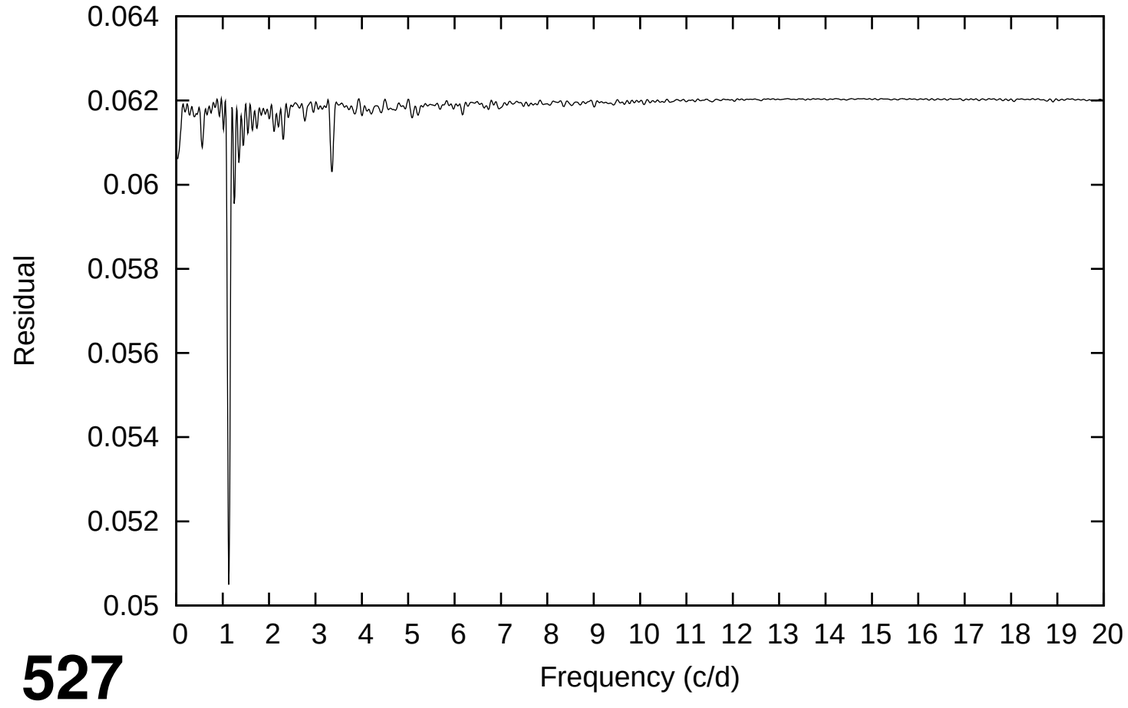
984

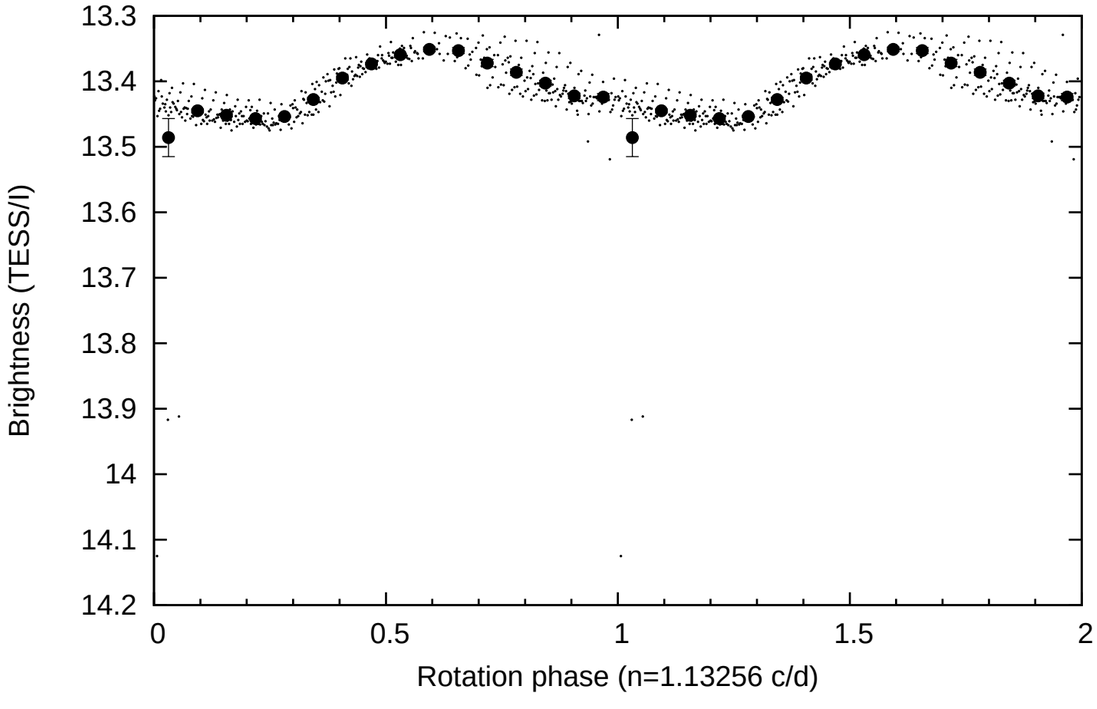

Brightness (TESS/I)
Rotation phase (n=8.30794 c/d)

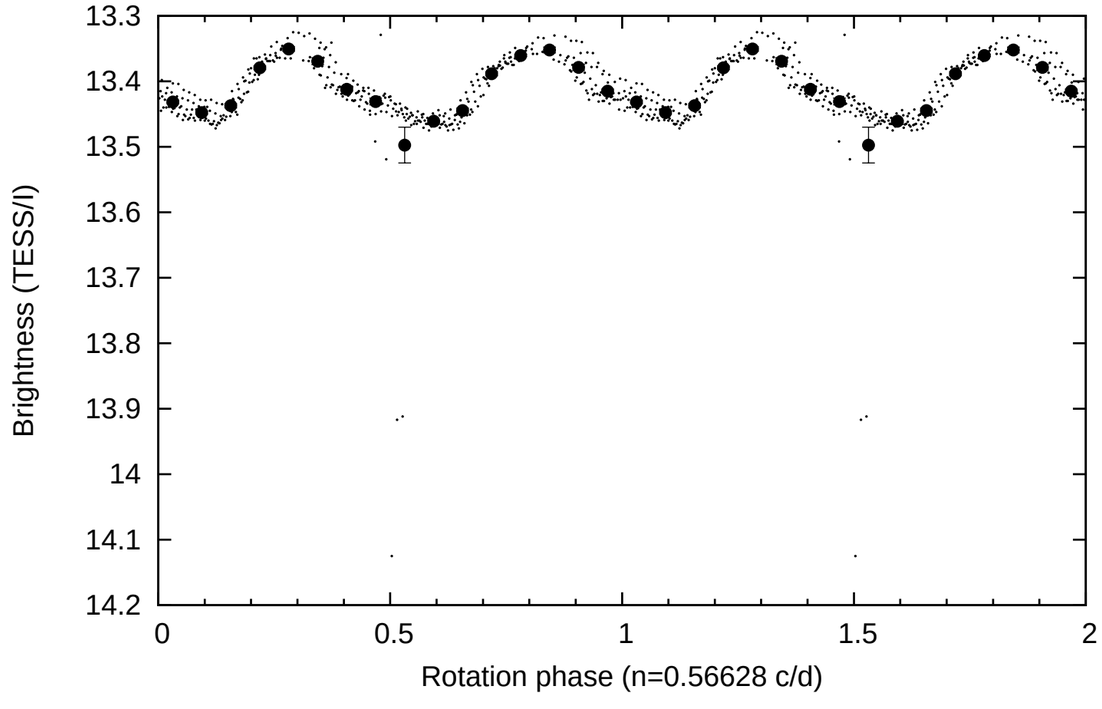

Brightness (TESS/I)
Rotation phase (n=4.15397 c/d)

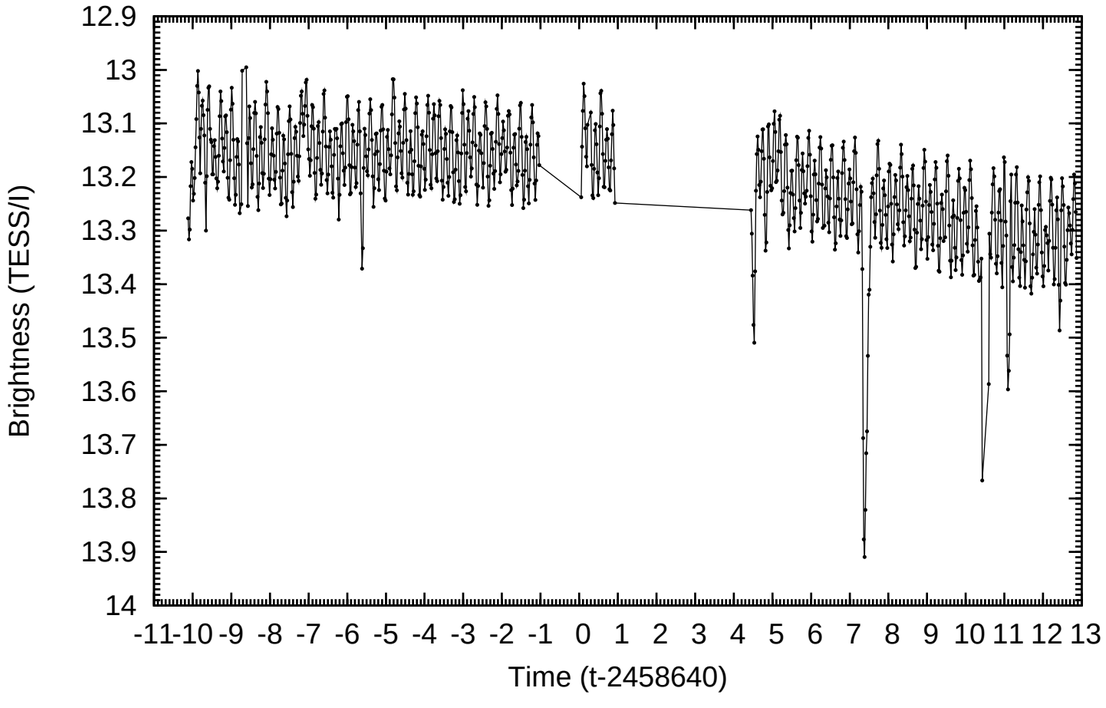

Brightness (TESS/I)
Time (t-2458420)

527

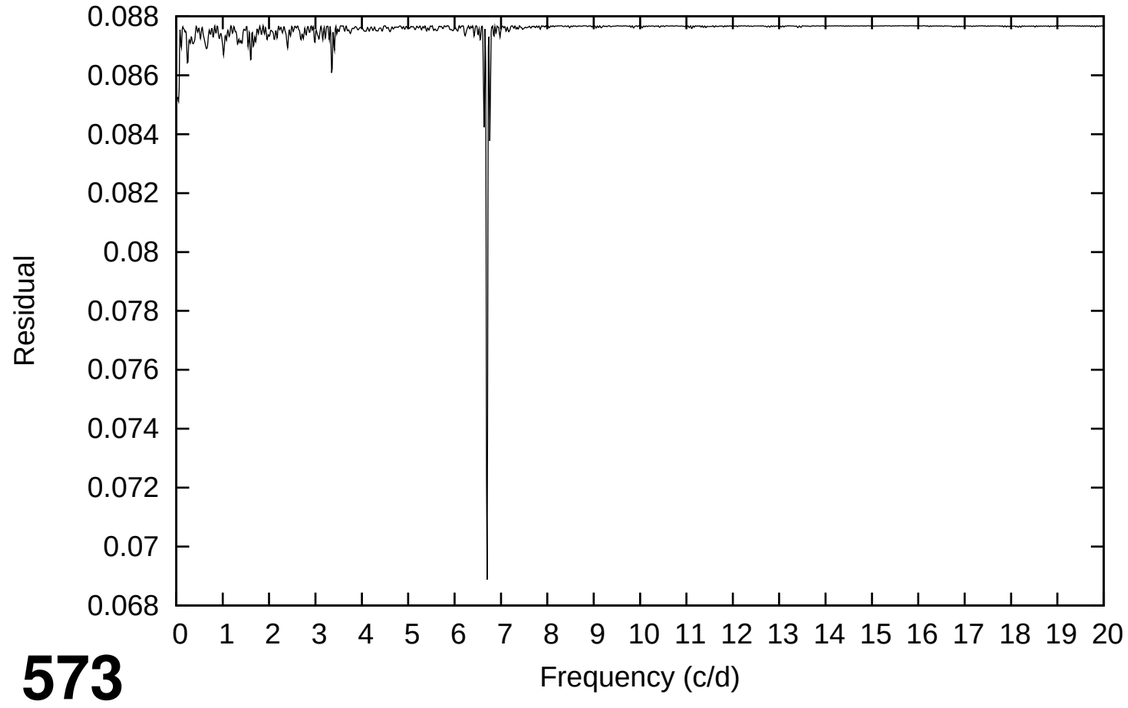

Residual
Frequency (c/d)

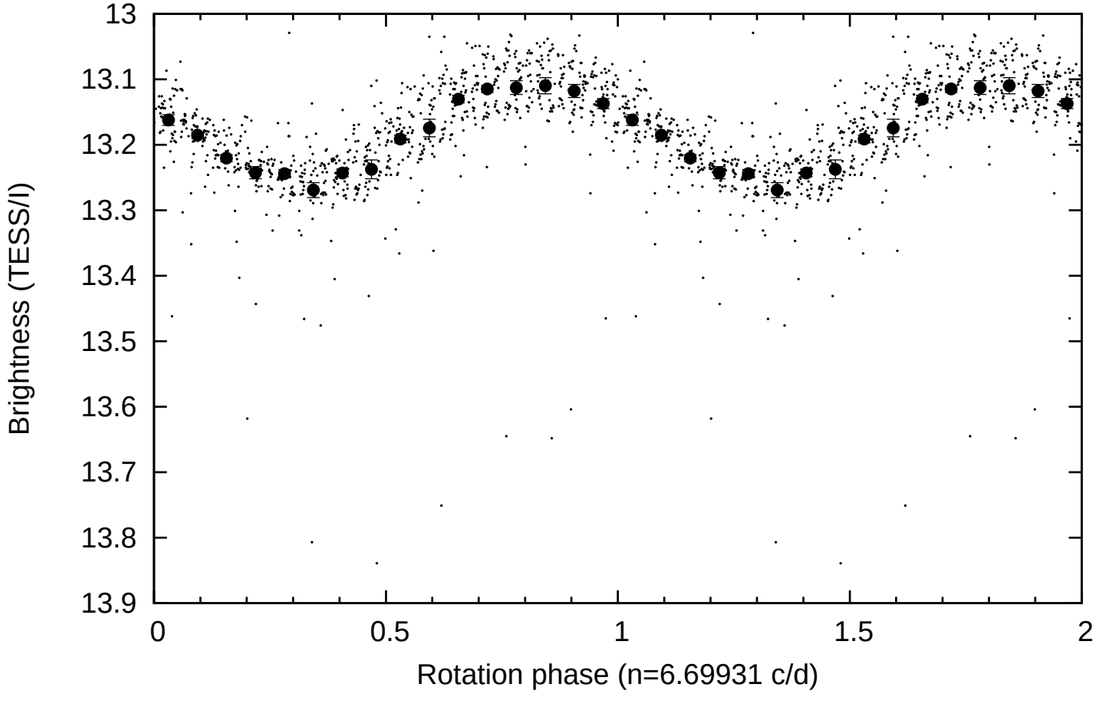

Brightness (TESS/I)
Rotation phase (n=1.13256 c/d)

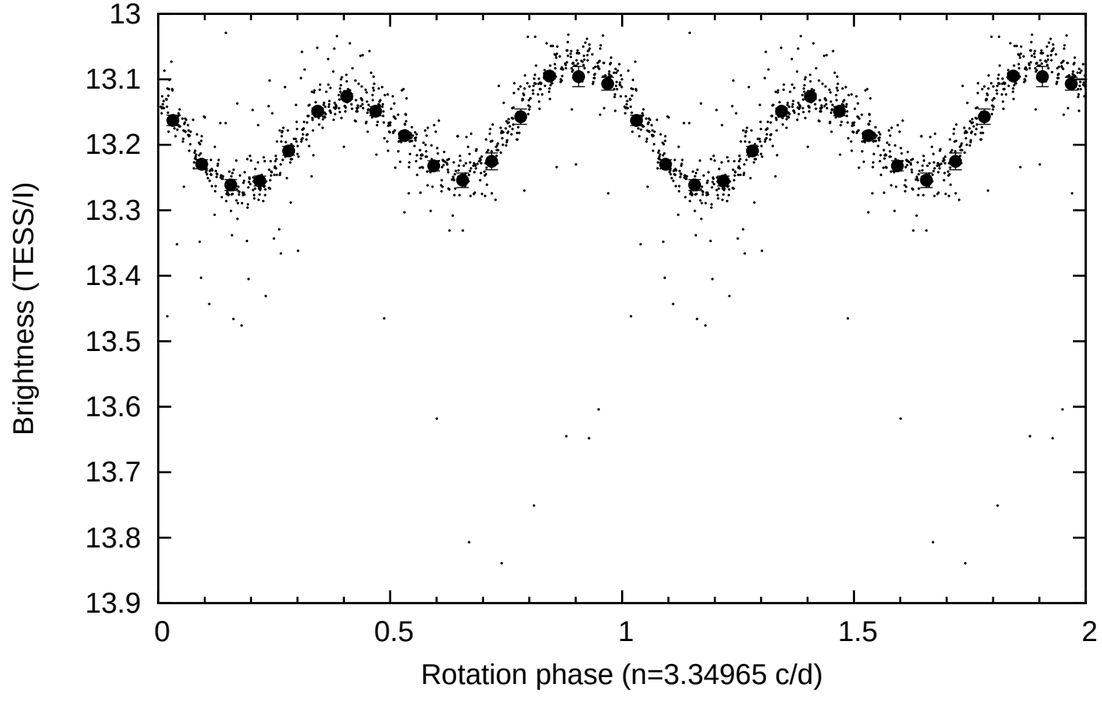

Brightness (TESS/I)
Rotation phase (n=0.56628 c/d)

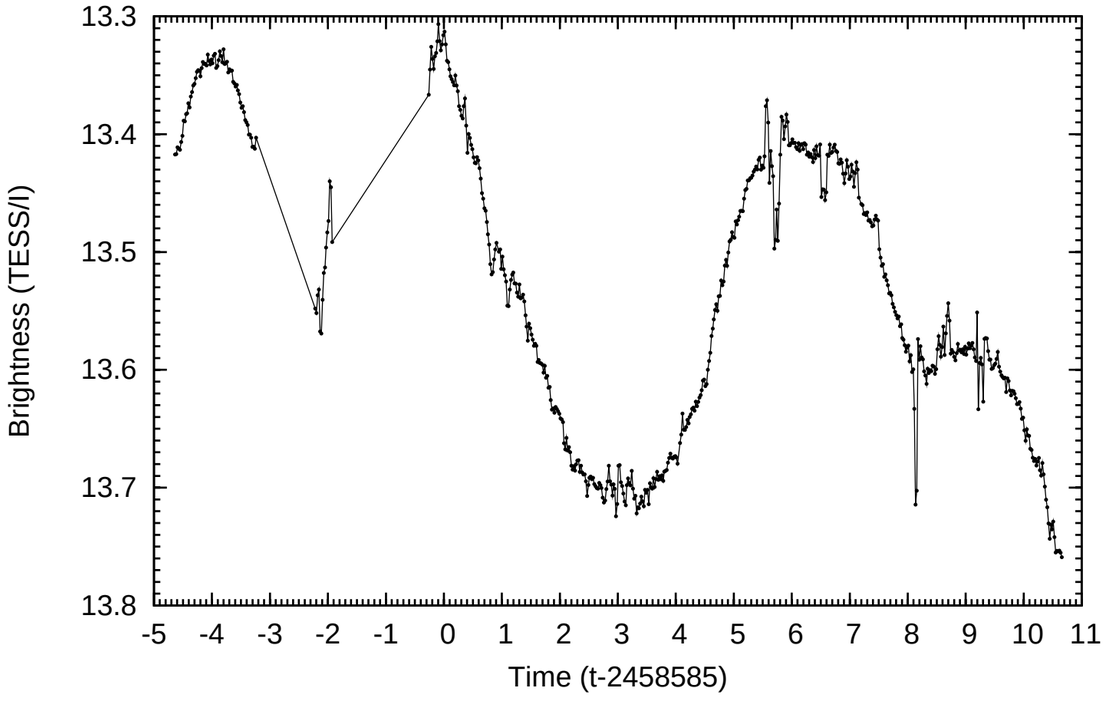

Brightness (TESS/I)
Time (t-2458640)

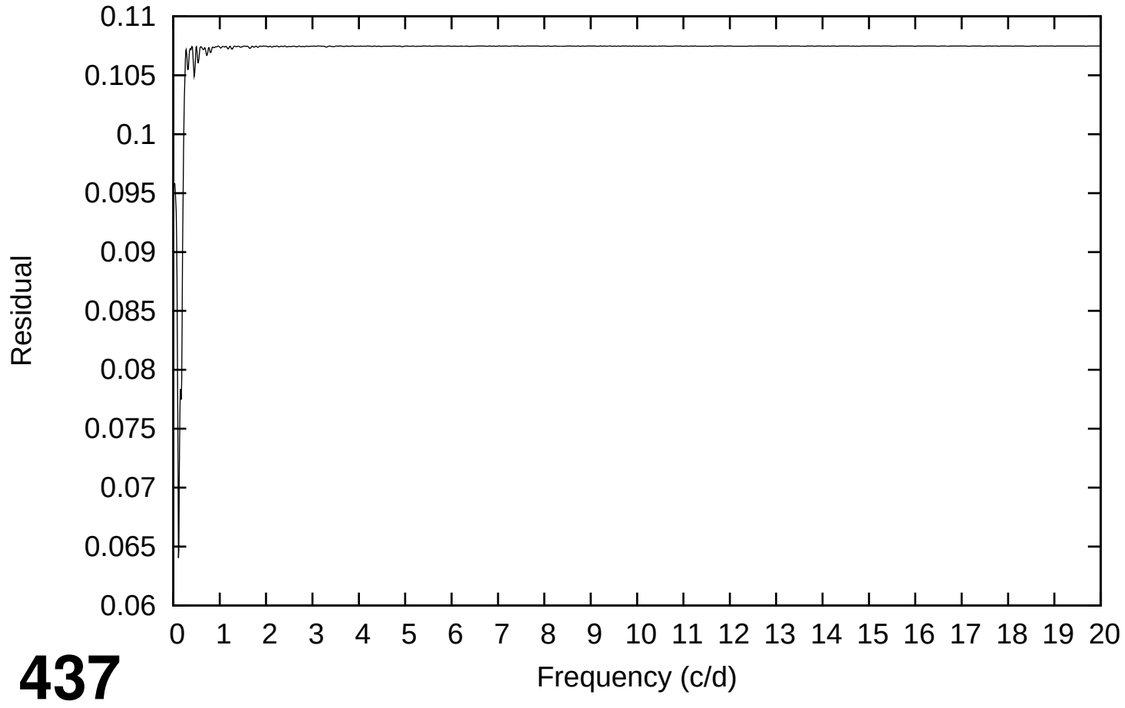
573

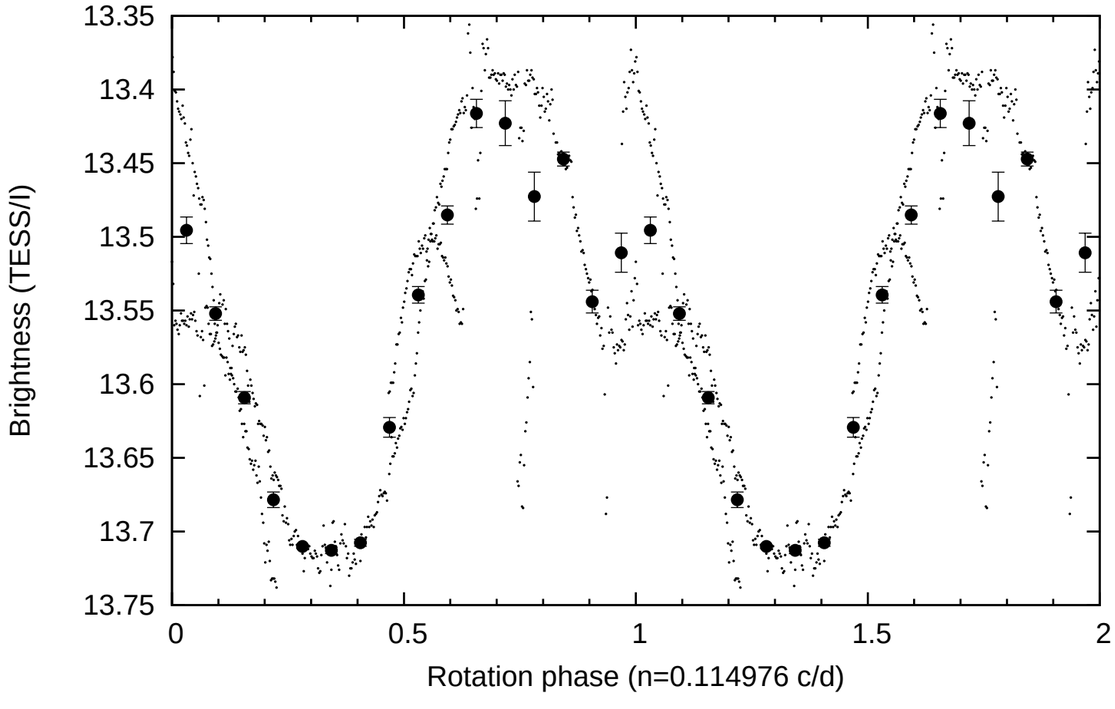

Residual
Frequency (c/d)

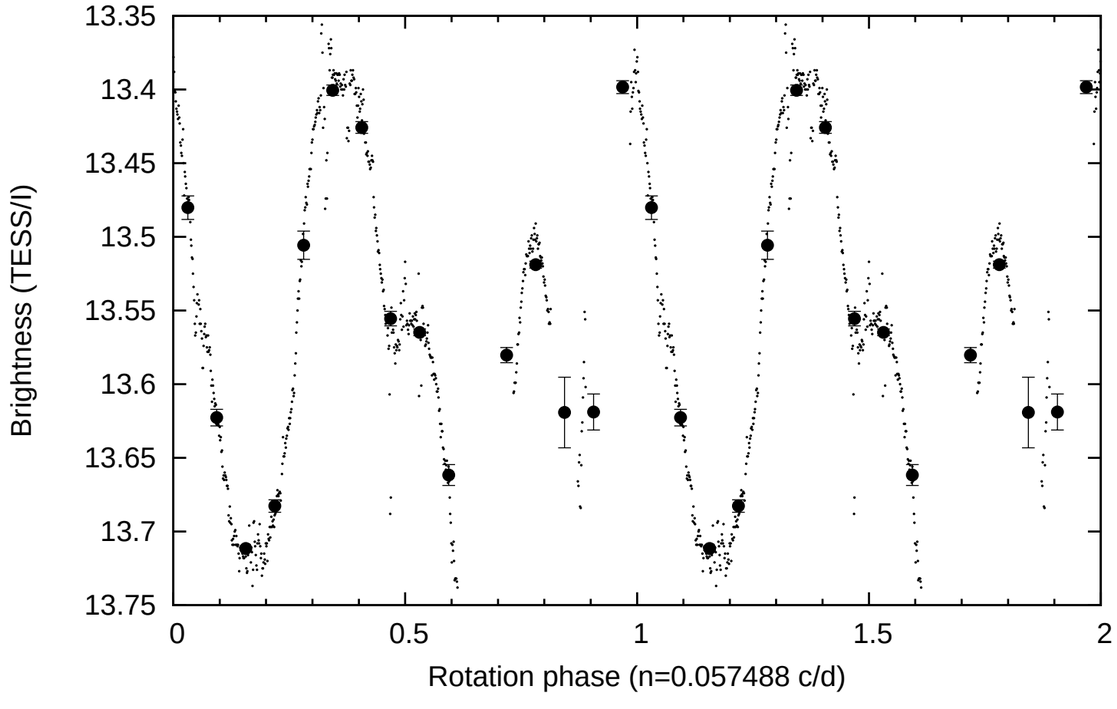

Brightness (TESS/I)
Rotation phase (n=6.69931 c/d)

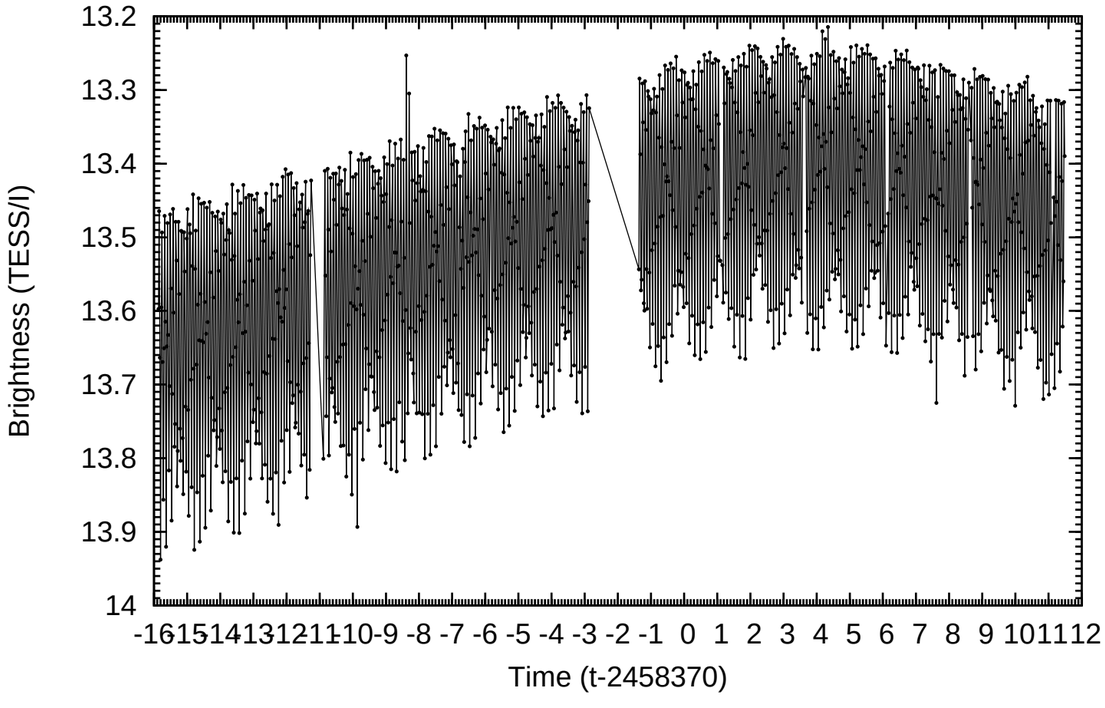

Brightness (TESS/I)
Rotation phase (n=3.34965 c/d)

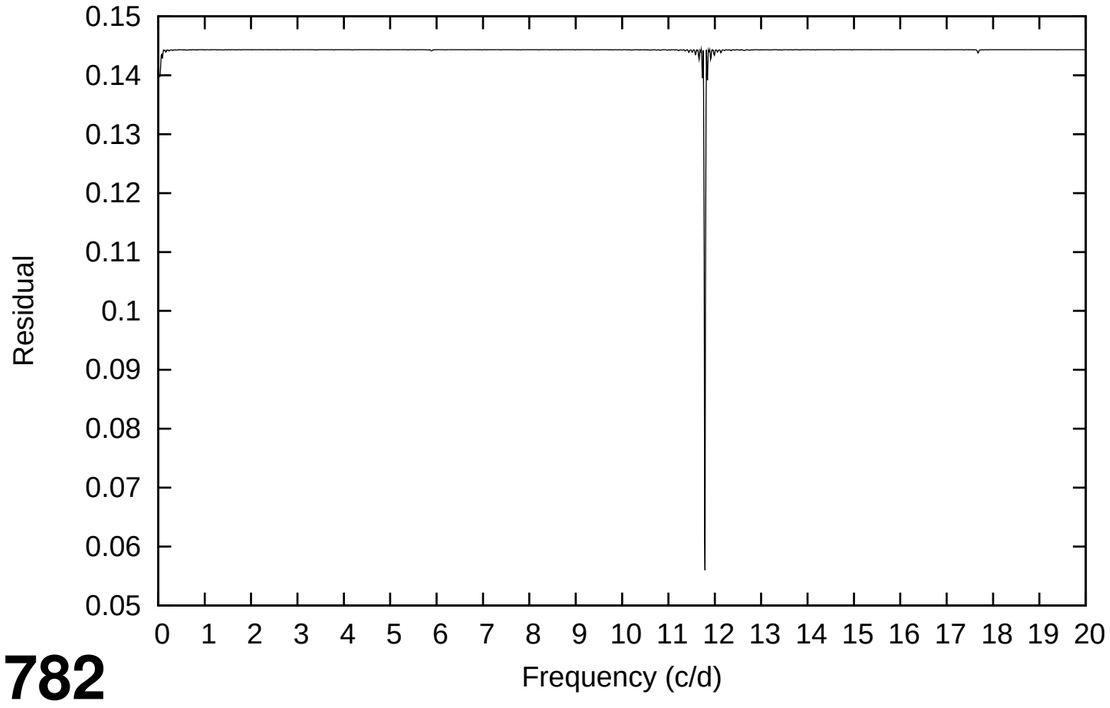

Brightness (TESS/I)
Time (t-2458585)


Residual
Frequency (c/d)

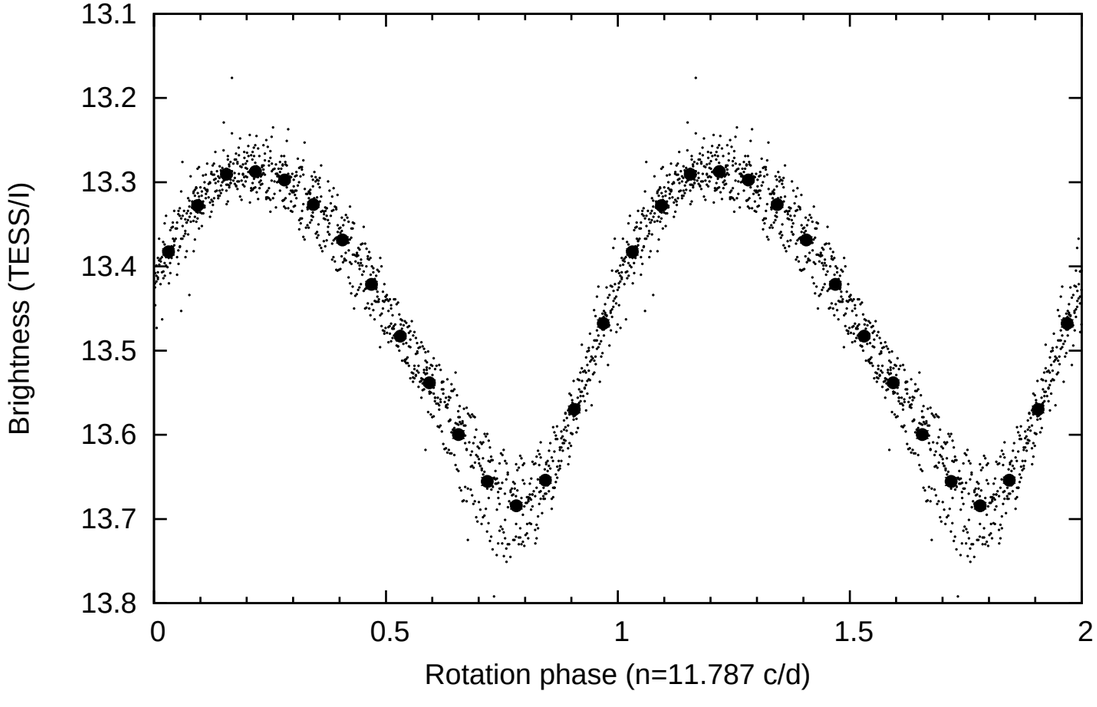

Brightness (TESS/I)
Rotation phase (n=0.114976 c/d)

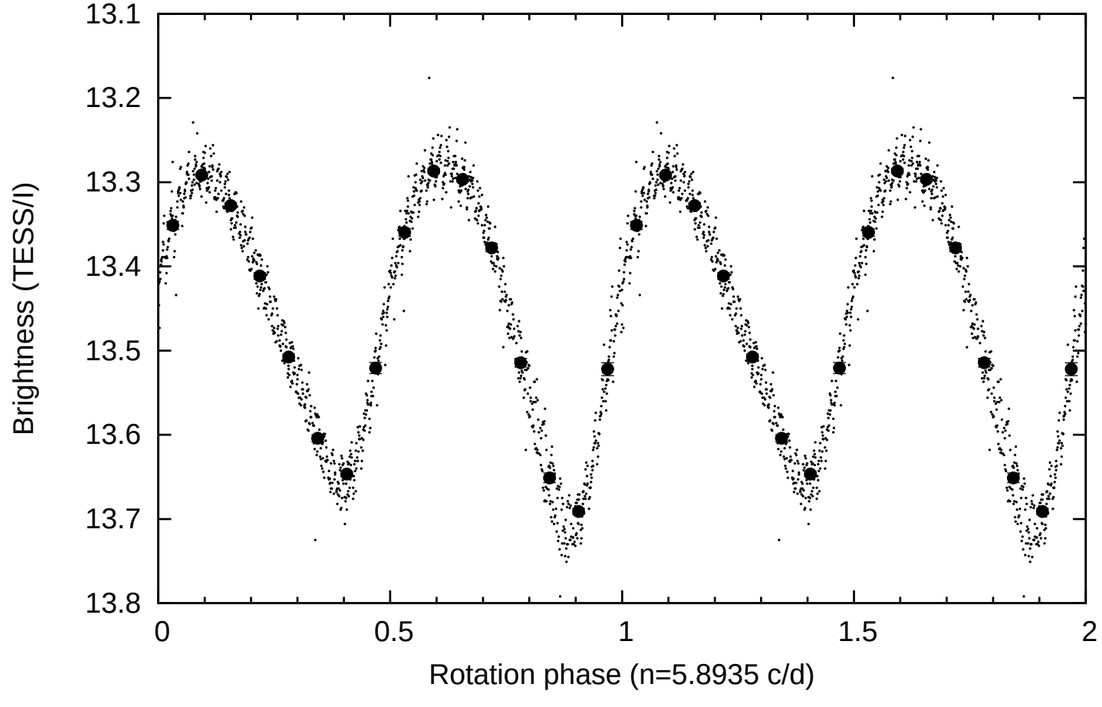

Brightness (TESS/I)
Rotation phase (n=0.057488 c/d)

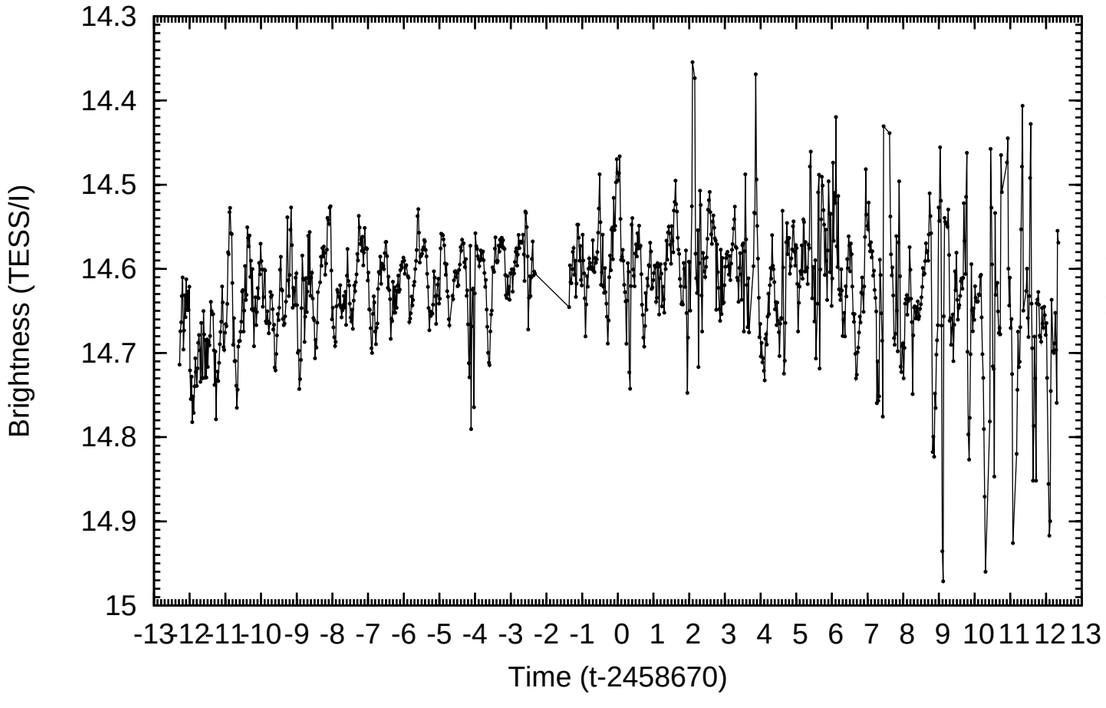

Brightness (TESS/I)
Time (t-2458370)

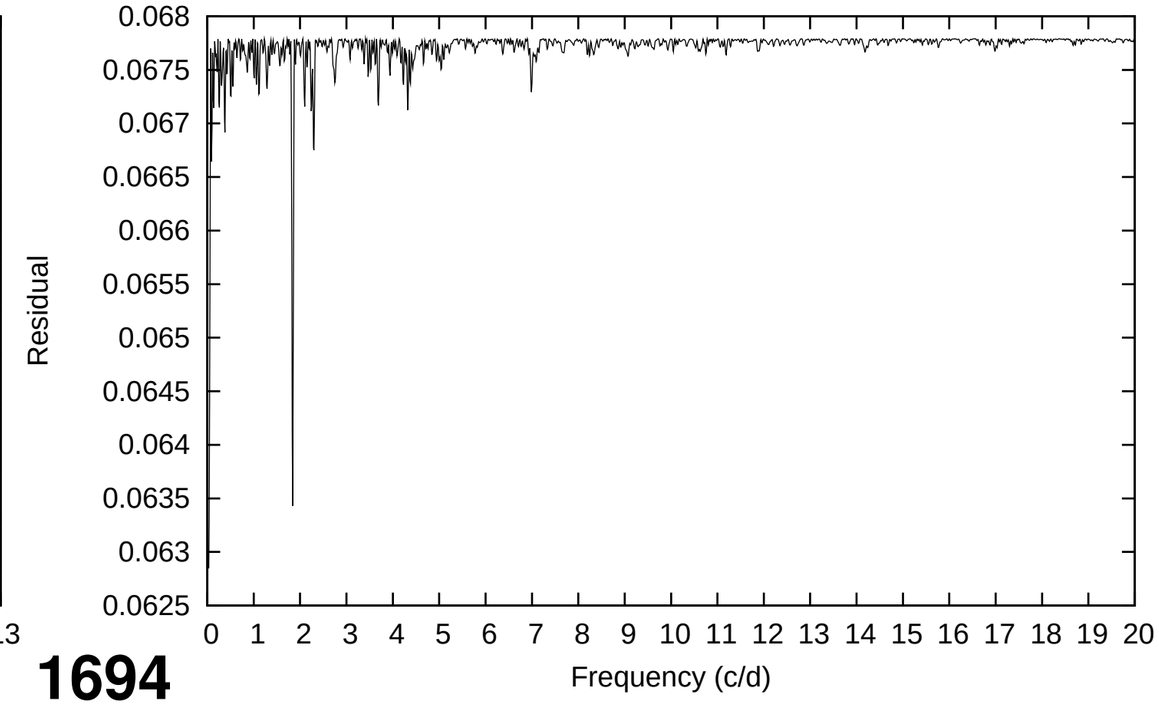

Residual
Frequency (c/d)

782

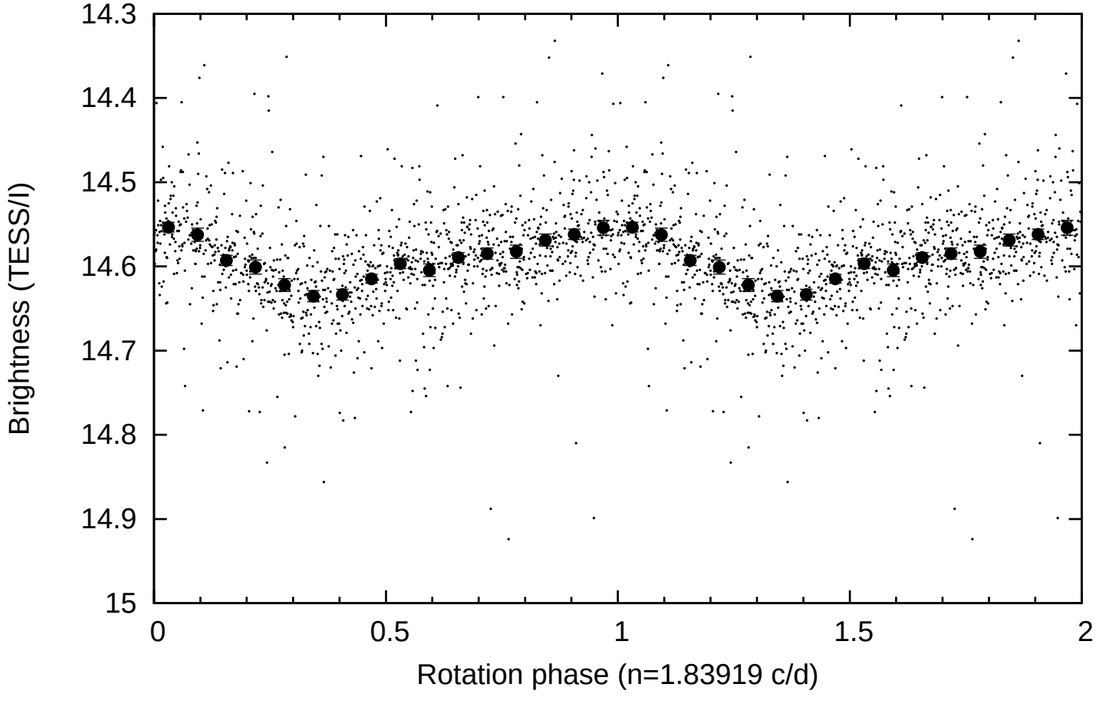

Brightness (TESS/I)
Rotation phase (n=11.787 c/d)

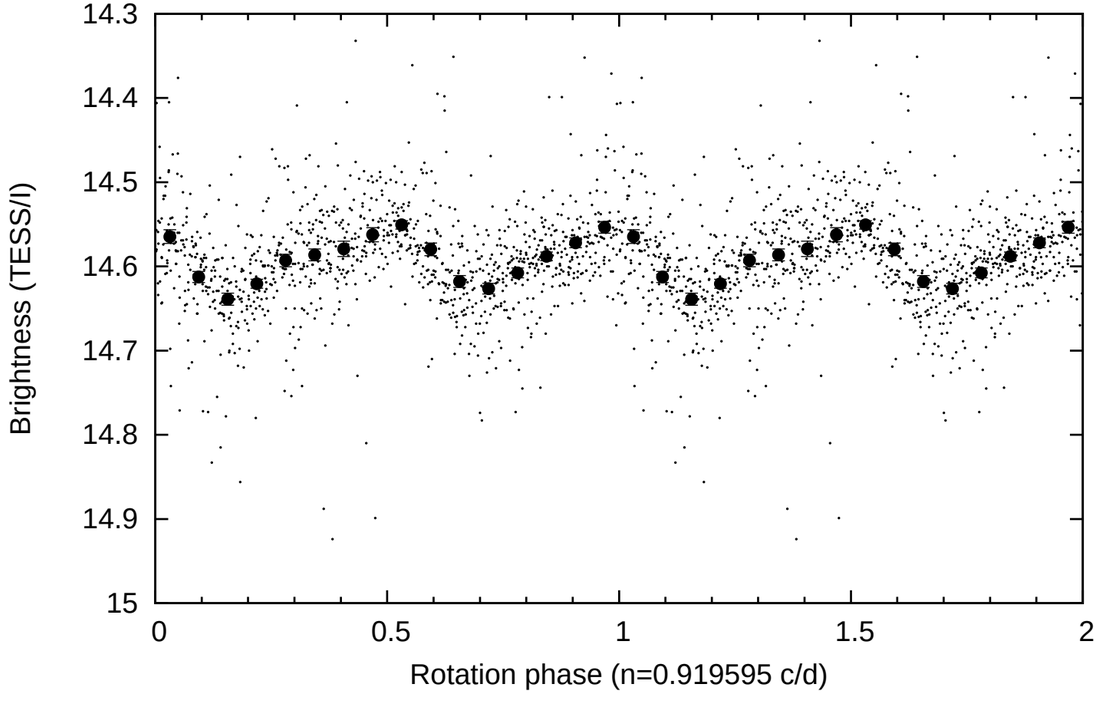

Brightness (TESS/I)
Rotation phase (n=5.8935 c/d)

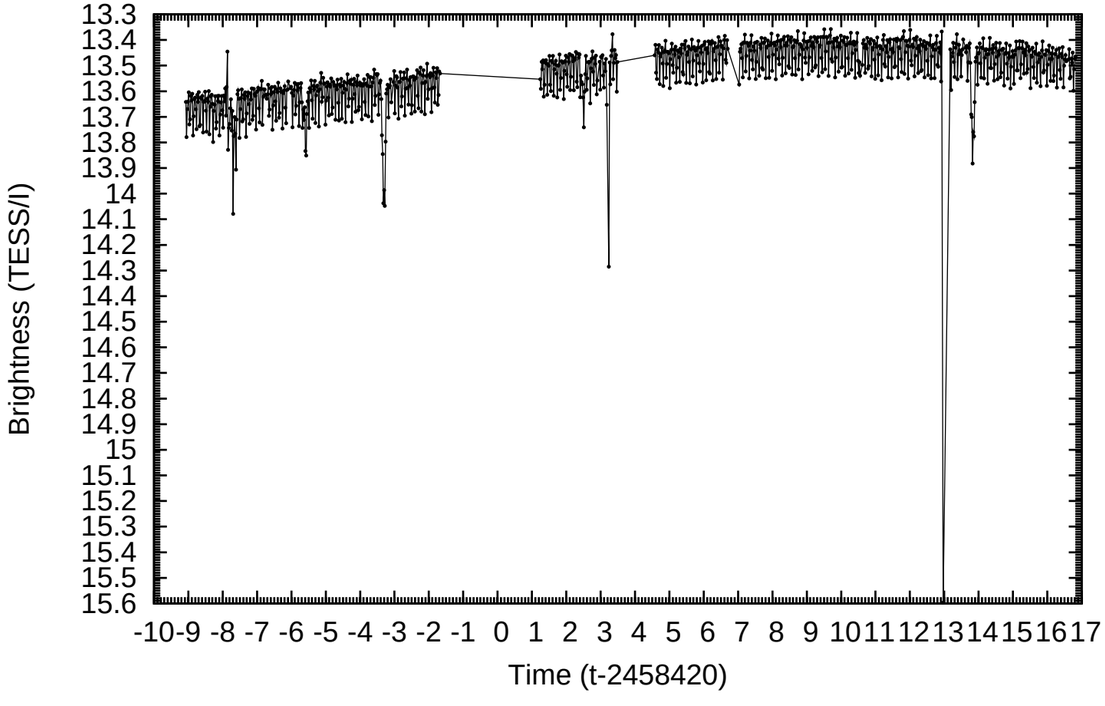

Brightness (TESS/I)
Time (t-2458670)

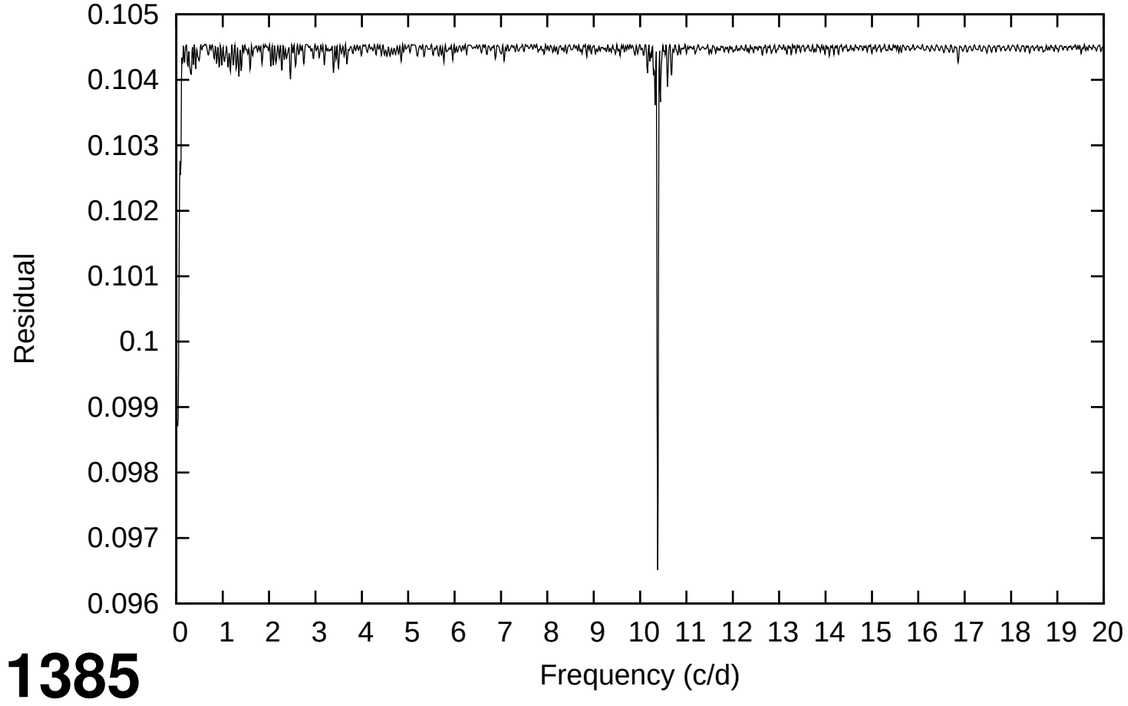

Residual
Frequency (c/d)

1694

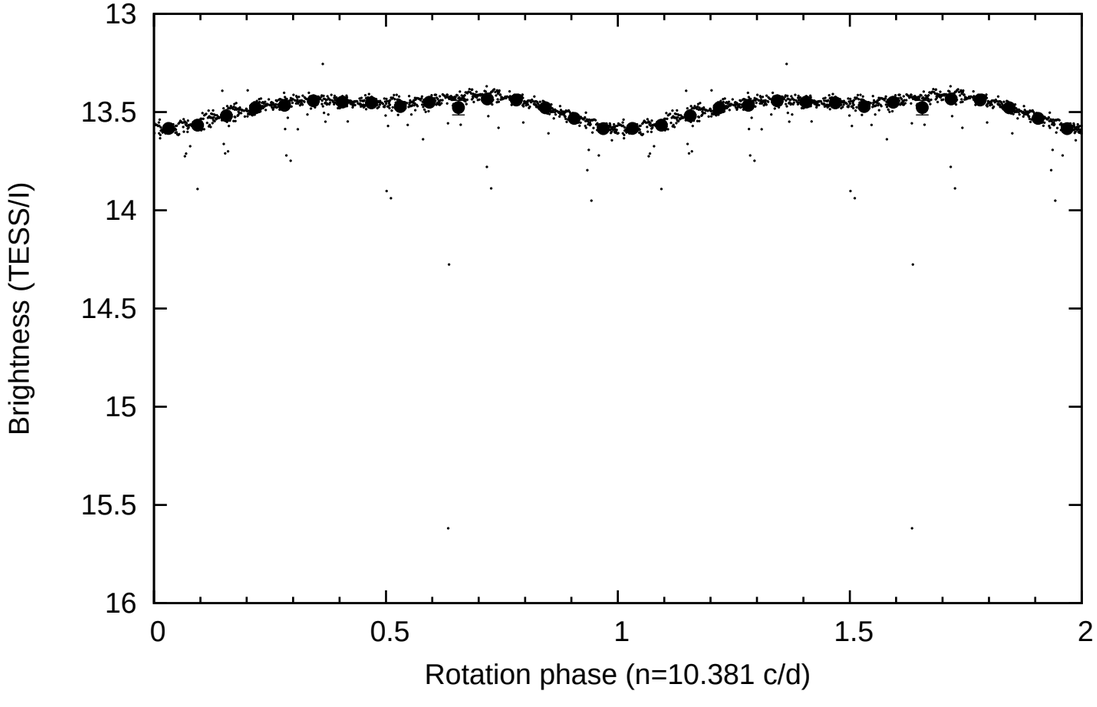

Brightness (TESS/I)
Rotation phase (n=1.83919 c/d)

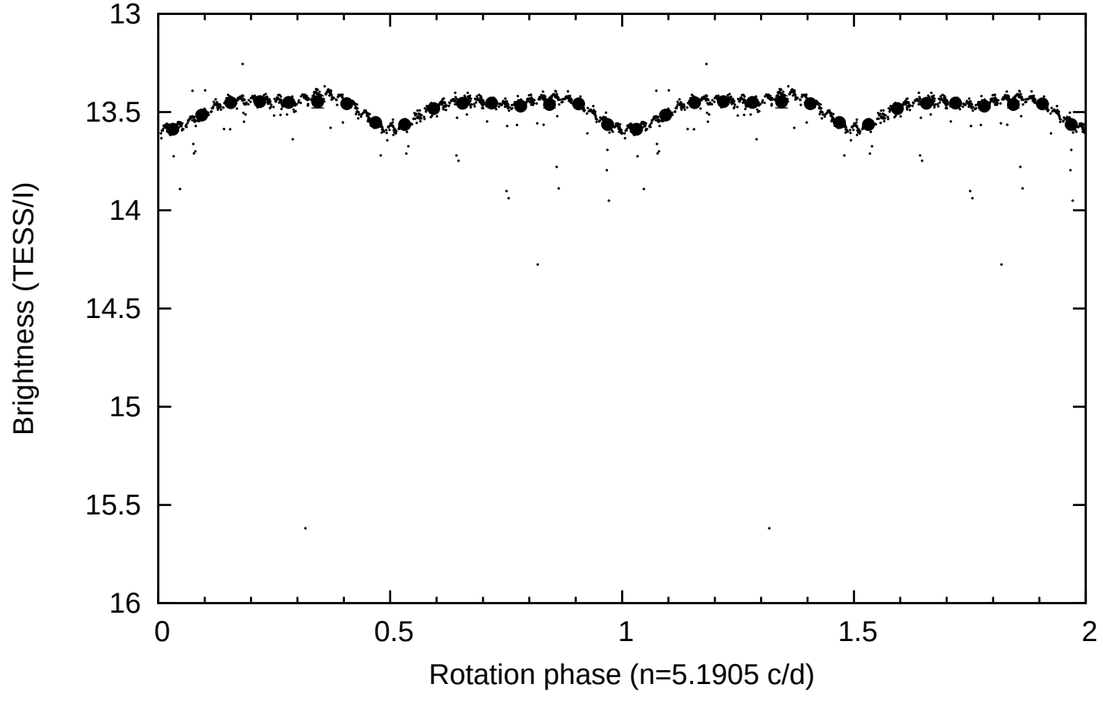

Brightness (TESS/I)
Rotation phase (n=0.919595 c/d)

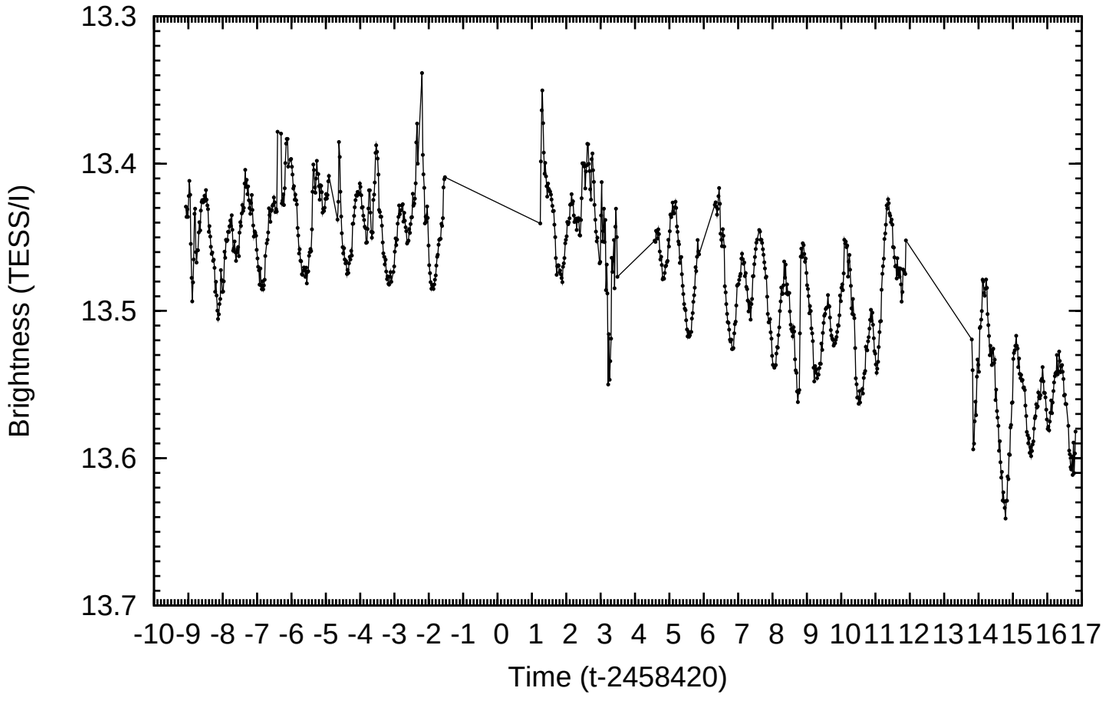

Brightness (TESS/I)
Time (t-2458420)

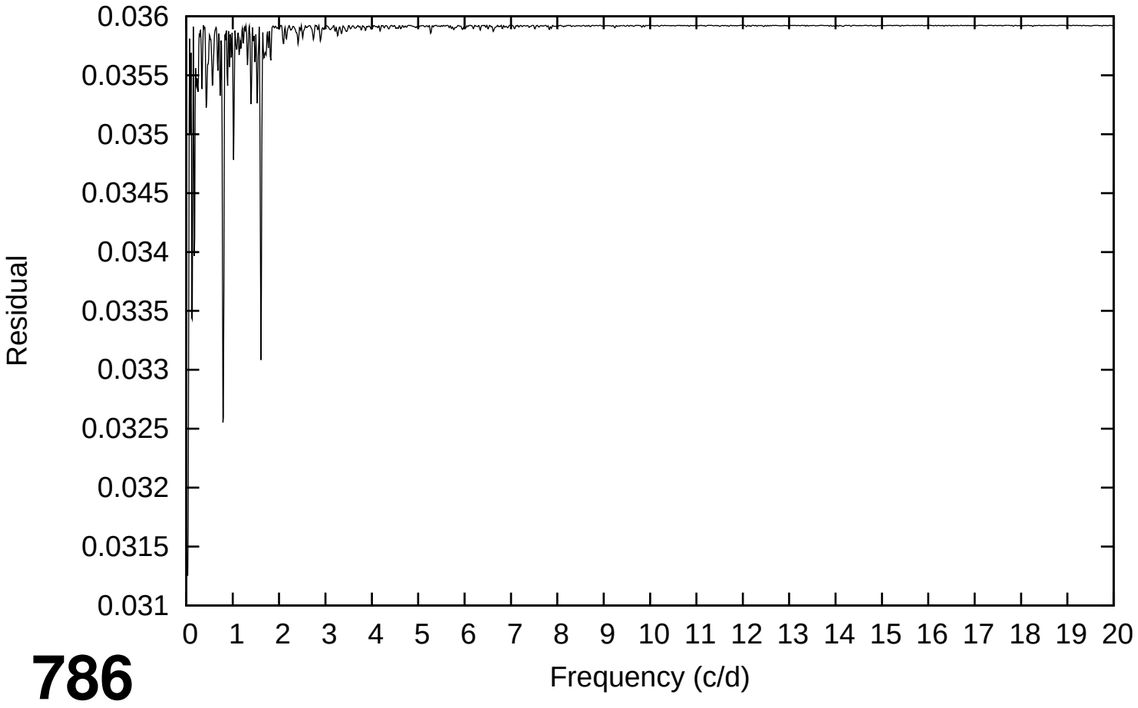

Residual
Frequency (c/d)

1385

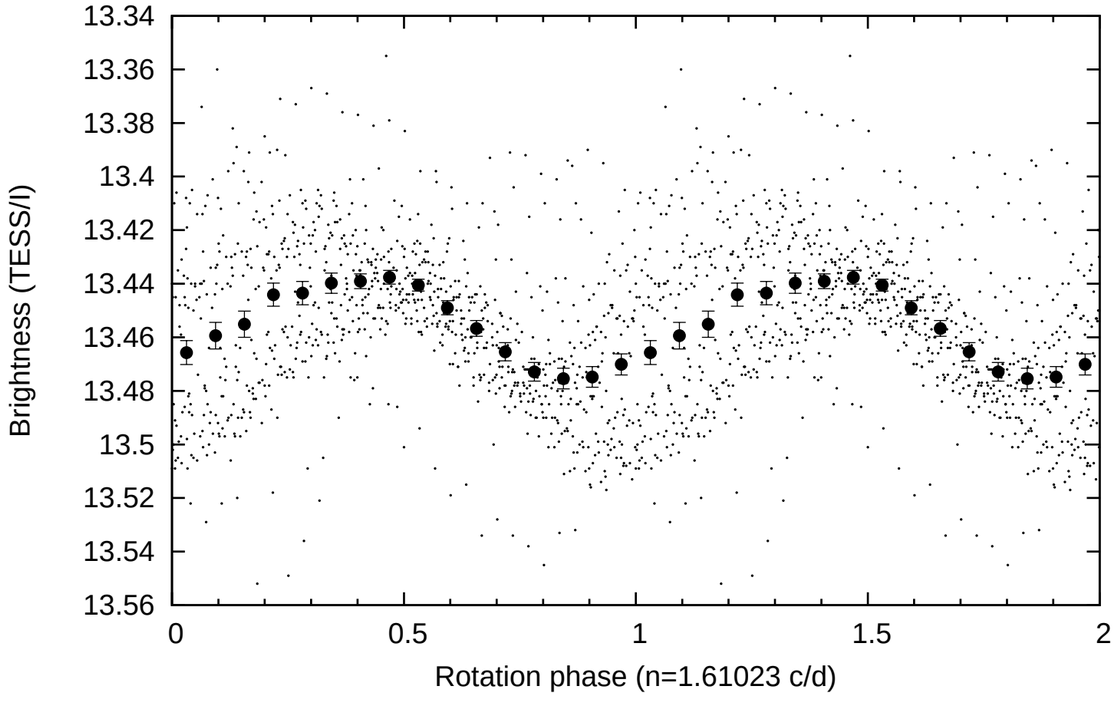

Brightness (TESS/I)
Rotation phase (n=10.381 c/d)

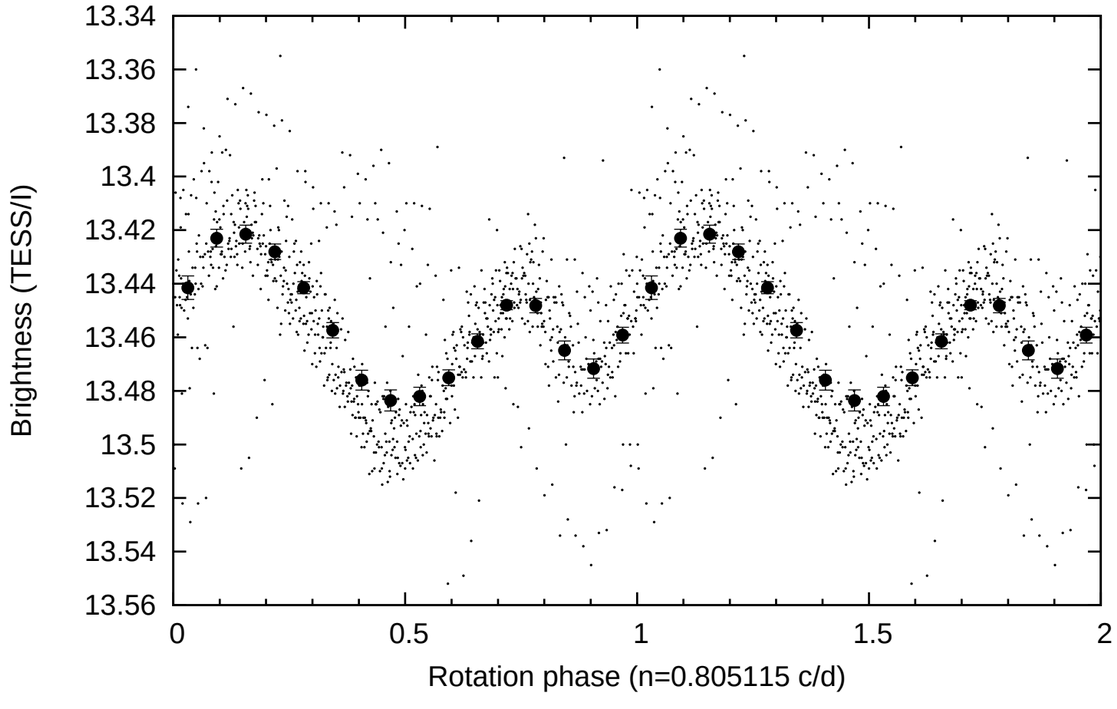

Brightness (TESS/I)
Rotation phase (n=5.1905 c/d)

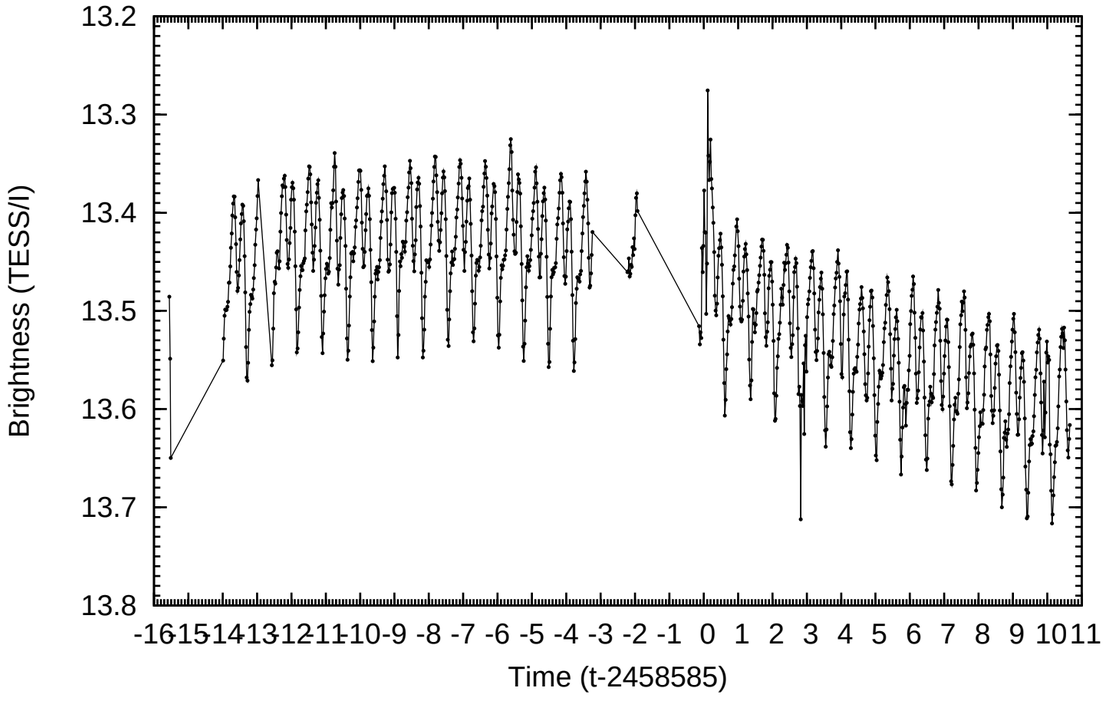

13.3
13.4
13.5
13.6
13.7
Brightness (TESS/I)
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Time (t-2458420)

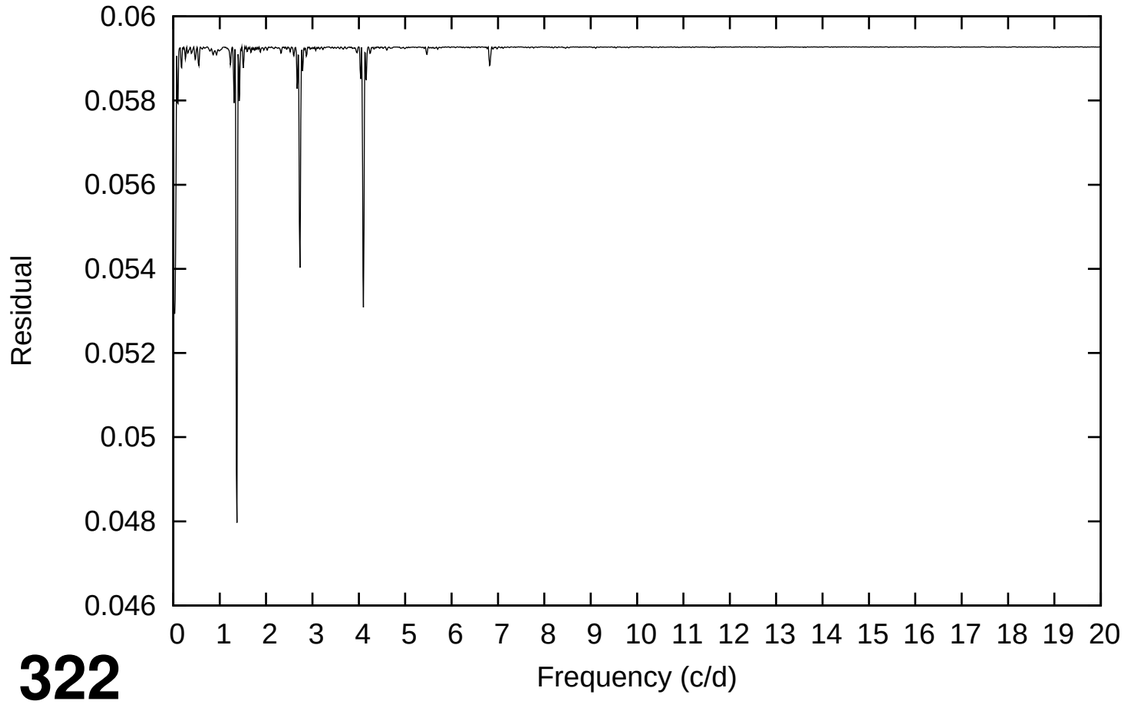

0.036
0.0355
0.035
0.0345
0.034
0.0335
0.033
0.0325
0.032
0.0315
0.031
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

786

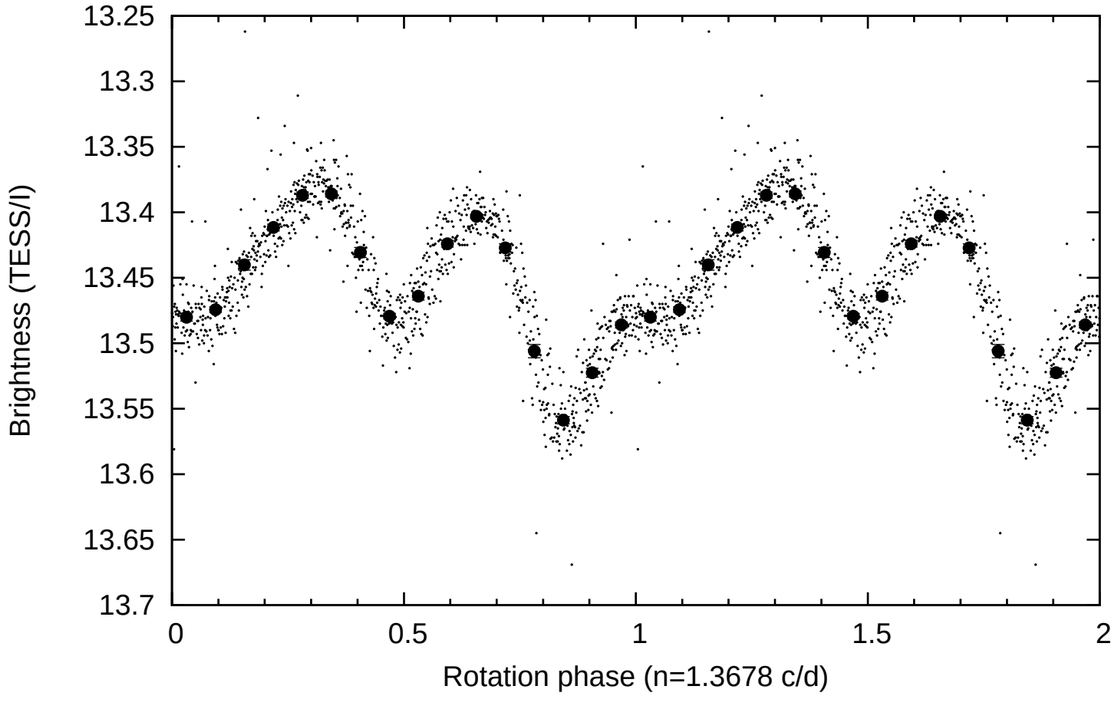

13.34
13.36
13.38
13.4
13.42
13.44
13.46
13.48
13.5
13.52
13.54
13.56
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=1.61023 c/d)

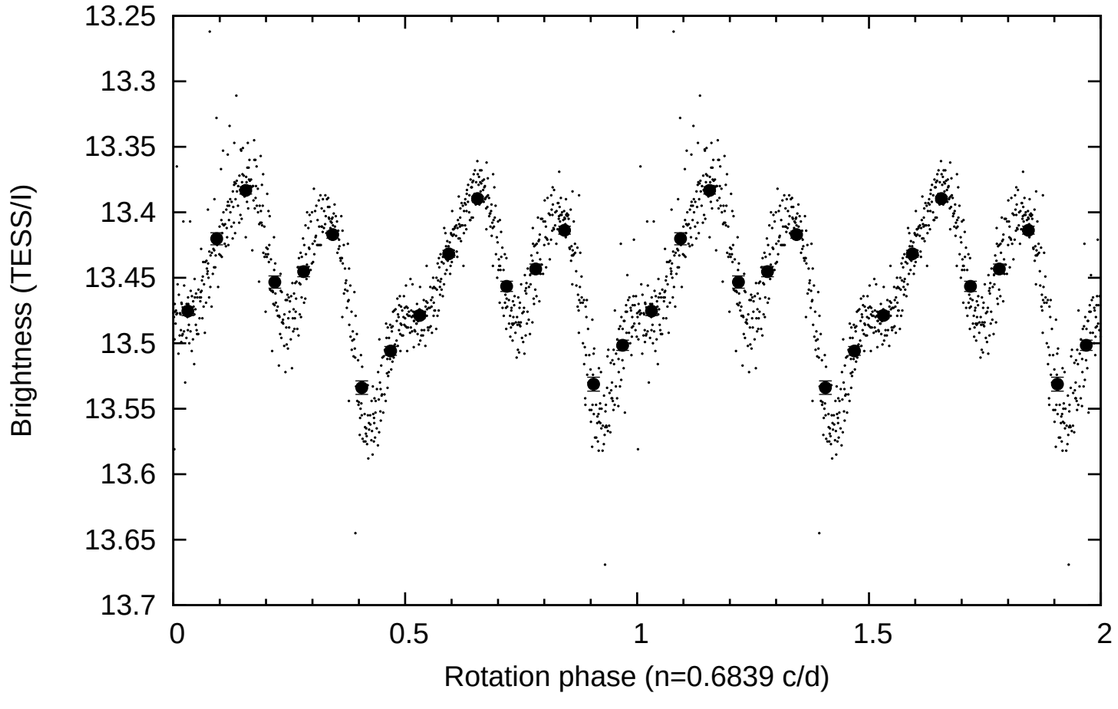

13.34
13.36
13.38
13.4
13.42
13.44
13.46
13.48
13.5
13.52
13.54
13.56
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=0.805115 c/d)

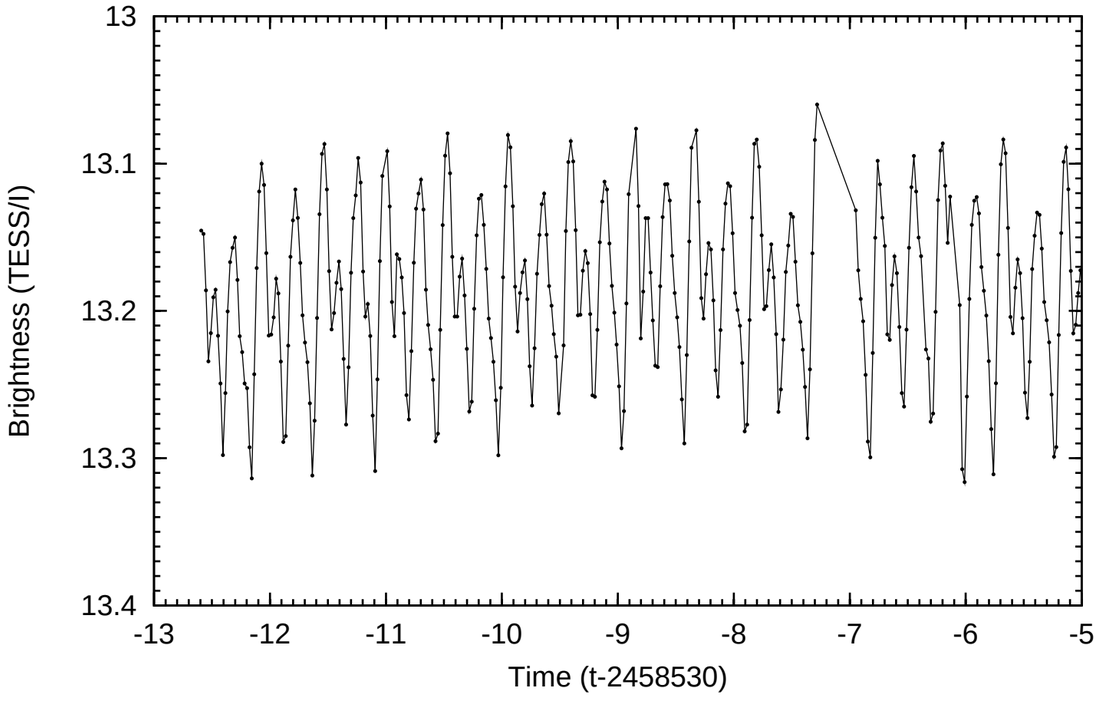

Brightness (TESS/I)
Time (t-2458585)

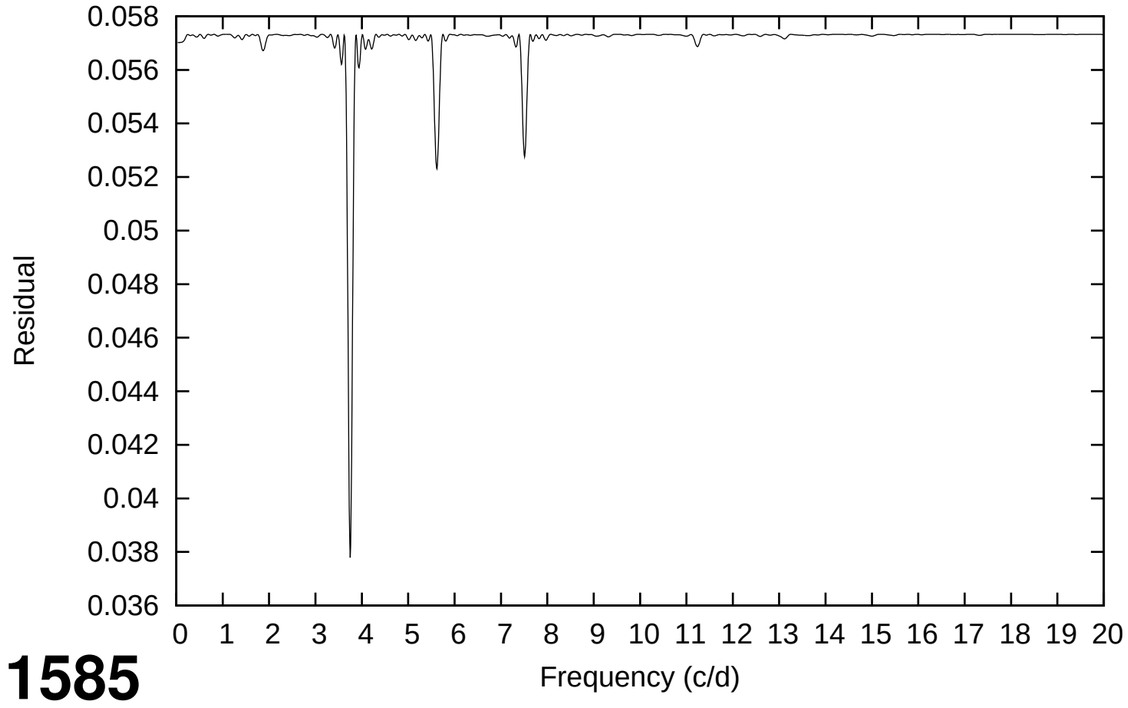

Residual
Frequency (c/d)

322

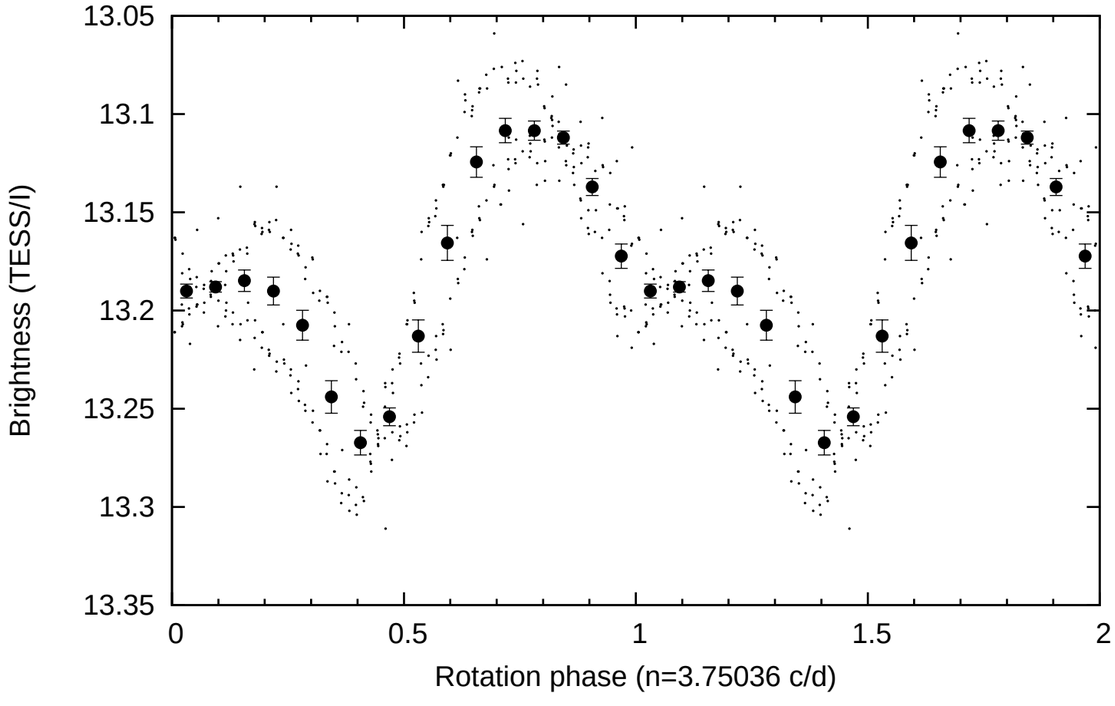

Brightness (TESS/I)
Rotation phase (n=1.3678 c/d)

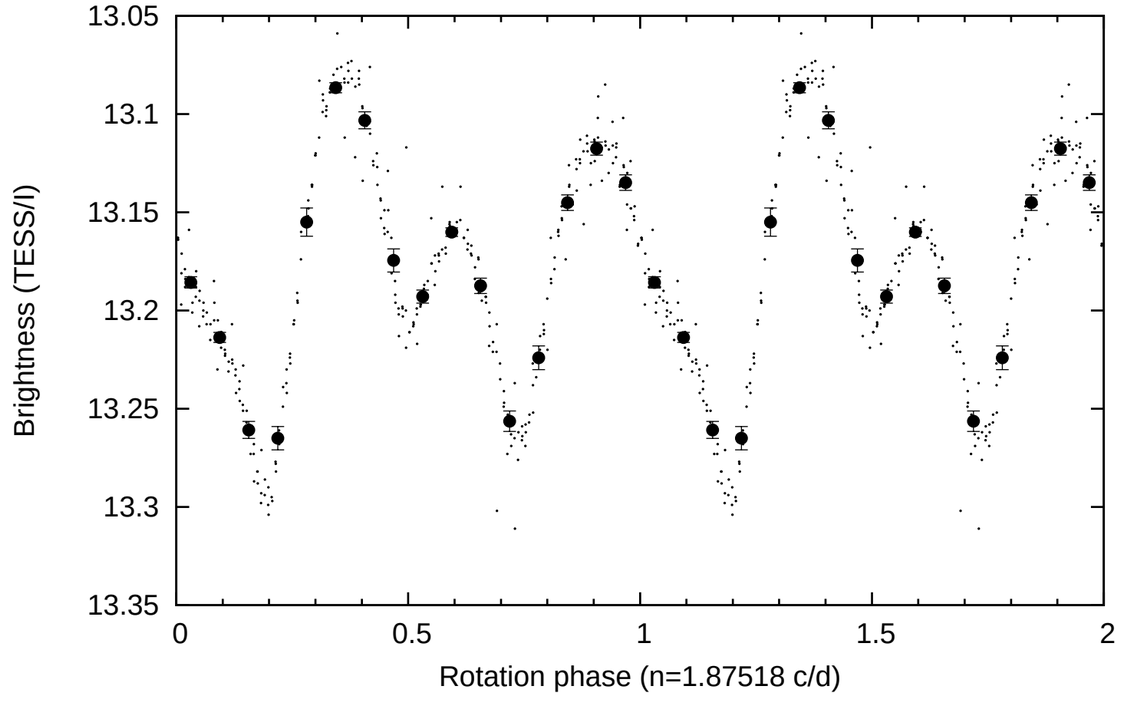

Brightness (TESS/I)
Rotation phase (n=0.6839 c/d)

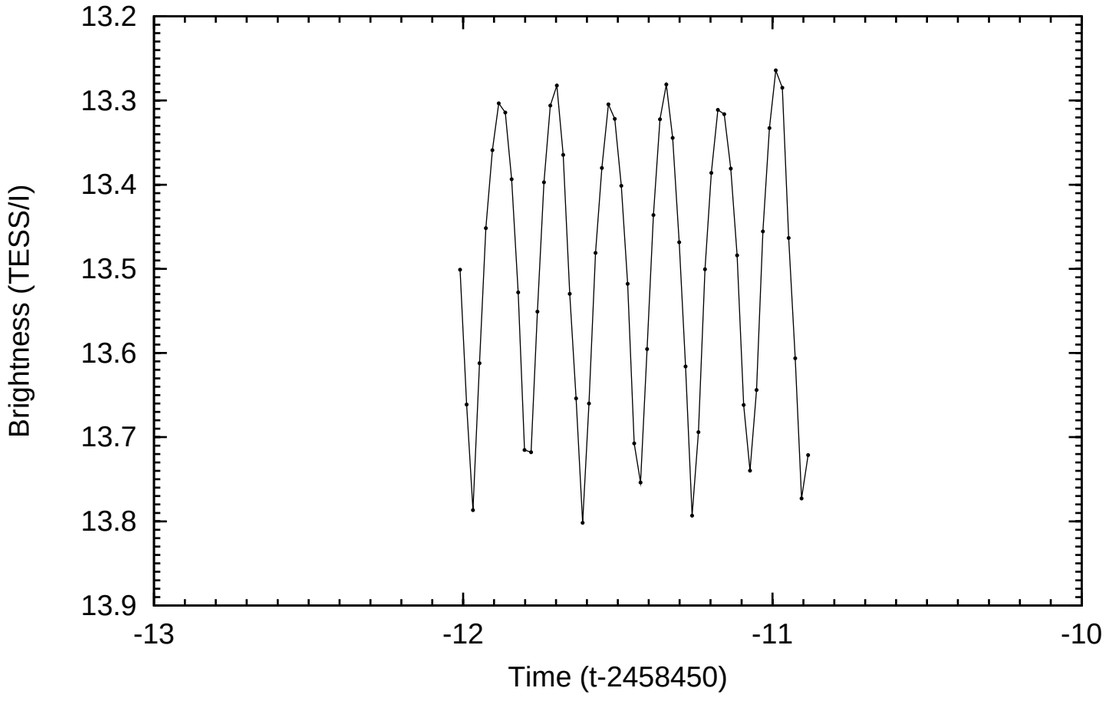

Brightness (TESS/I)
Time (t-2458530)

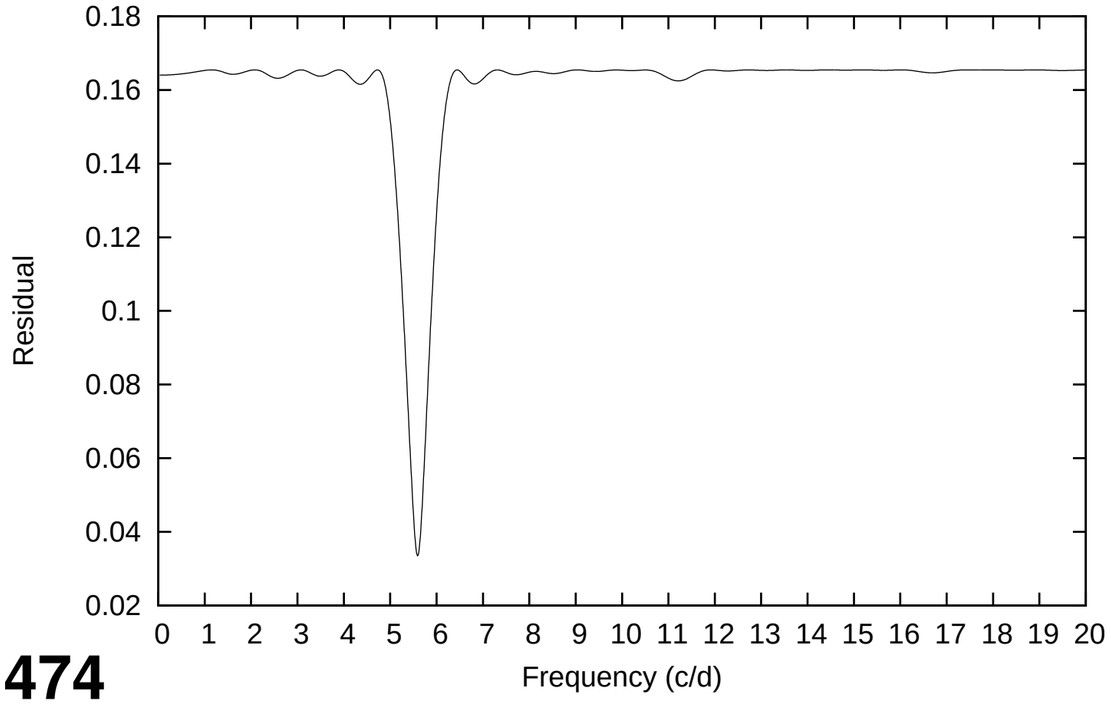

Residual
Frequency (c/d)

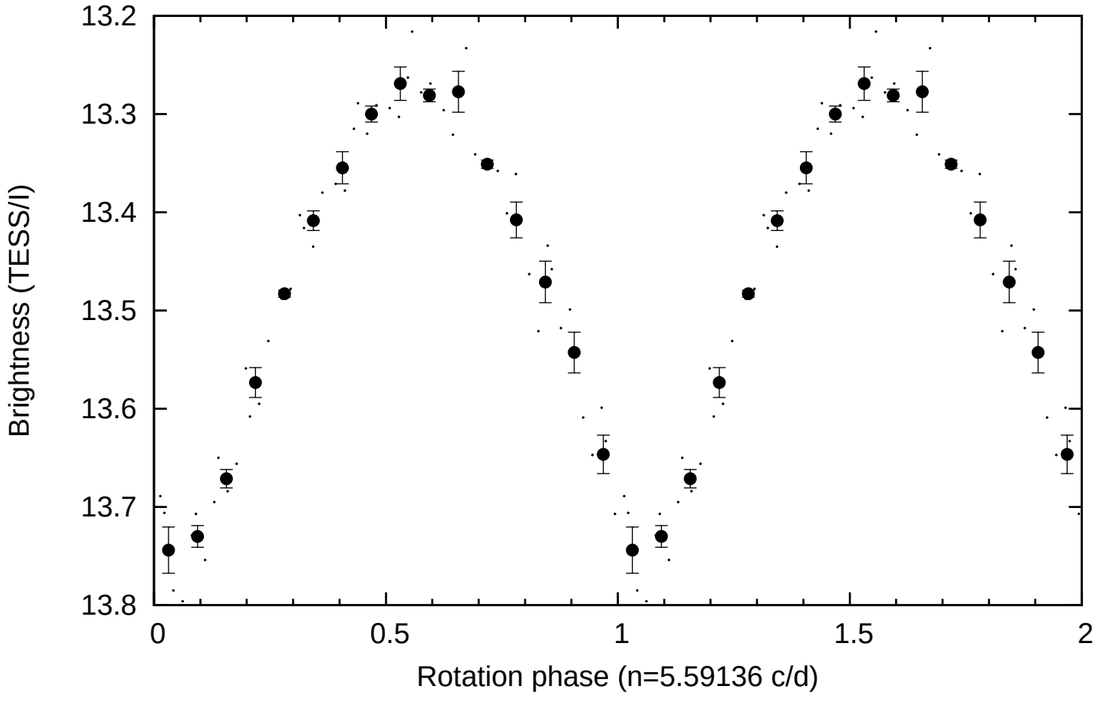
1585

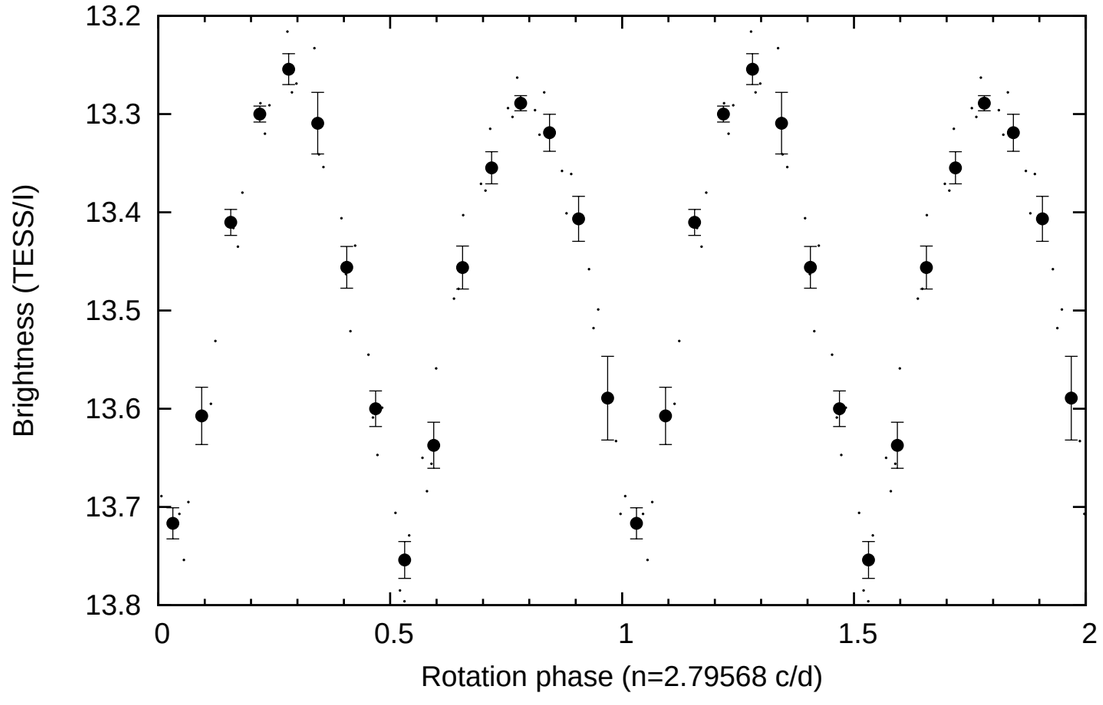

Brightness (TESS/I)
Rotation phase (n=3.75036 c/d)


Brightness (TESS/I)
Rotation phase (n=1.87518 c/d)

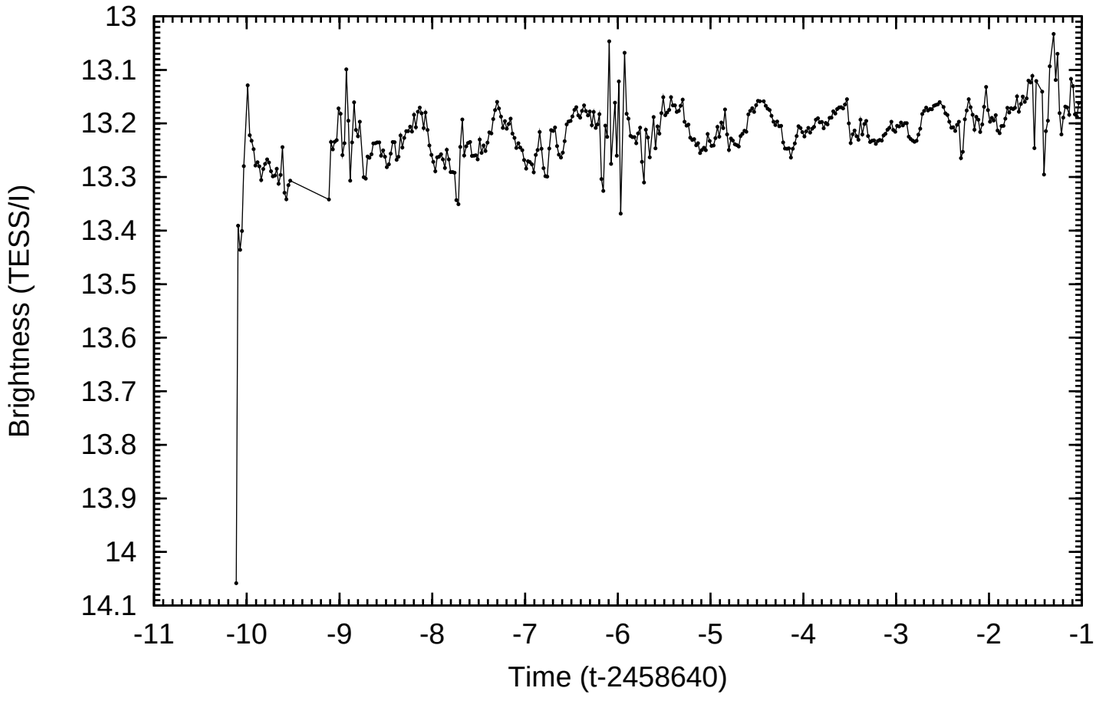

Brightness (TESS/I)
Time (t-2458450)
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
-13
-12
-11
-10

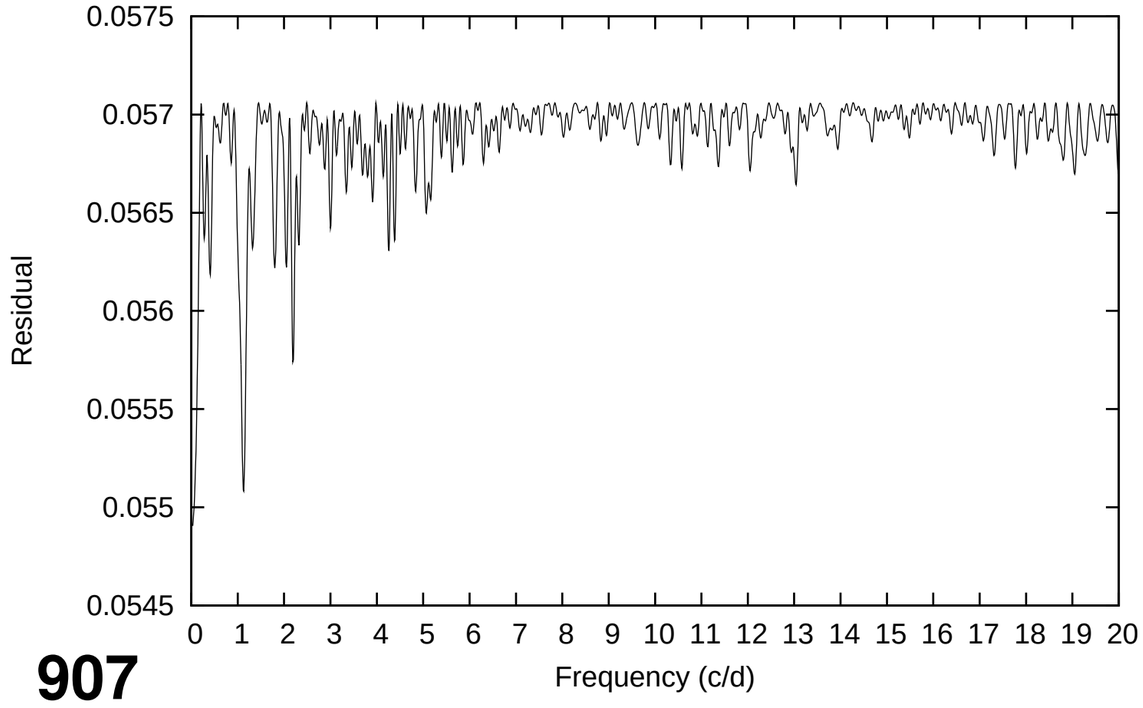

Residual
Frequency (c/d)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

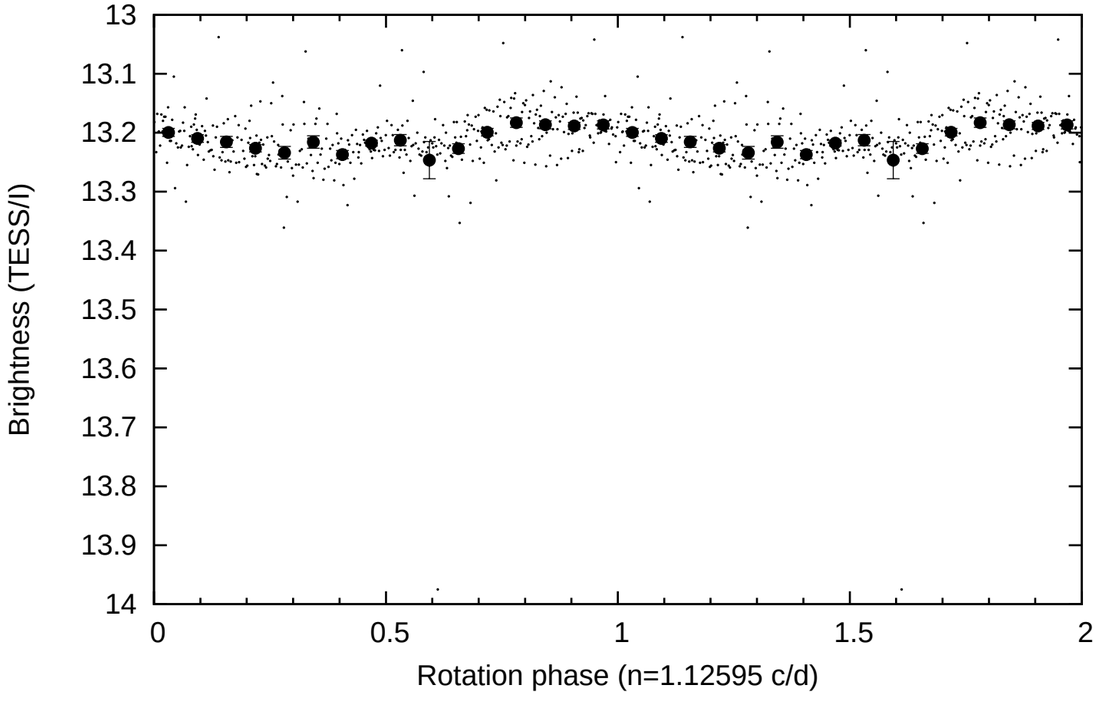

Brightness (TESS/I)
Rotation phase (n=5.59136 c/d)
13.2
13.3
13.4
13.5
13.6
13.7
13.8
0
0.5
1
1.5
2

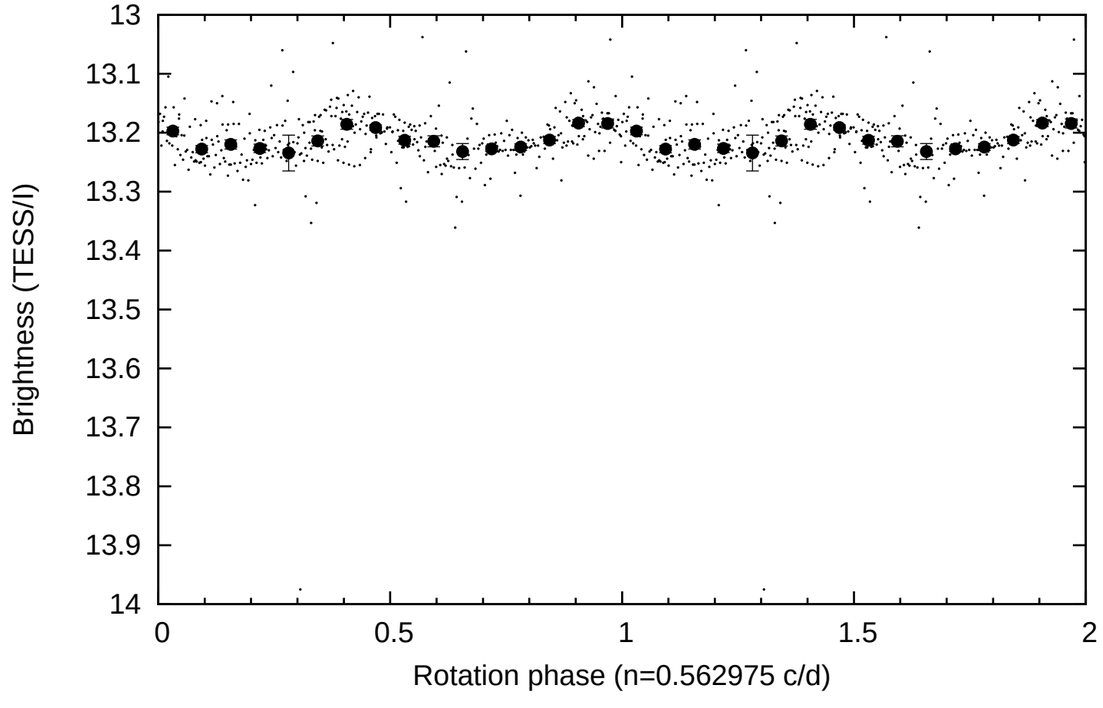

Brightness (TESS/I)
Rotation phase (n=2.79568 c/d)
13.2
13.3
13.4
13.5
13.6
13.7
13.8
0
0.5
1
1.5
2

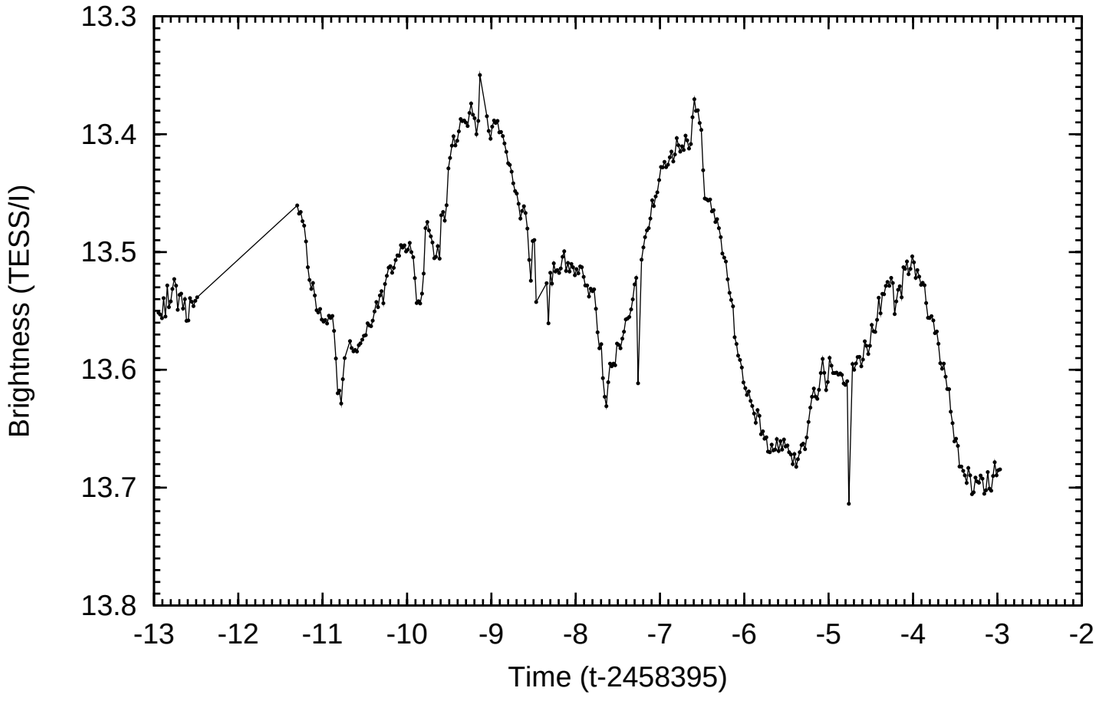
907


Brightness (TESS/I)
Time (t-2458640)
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1

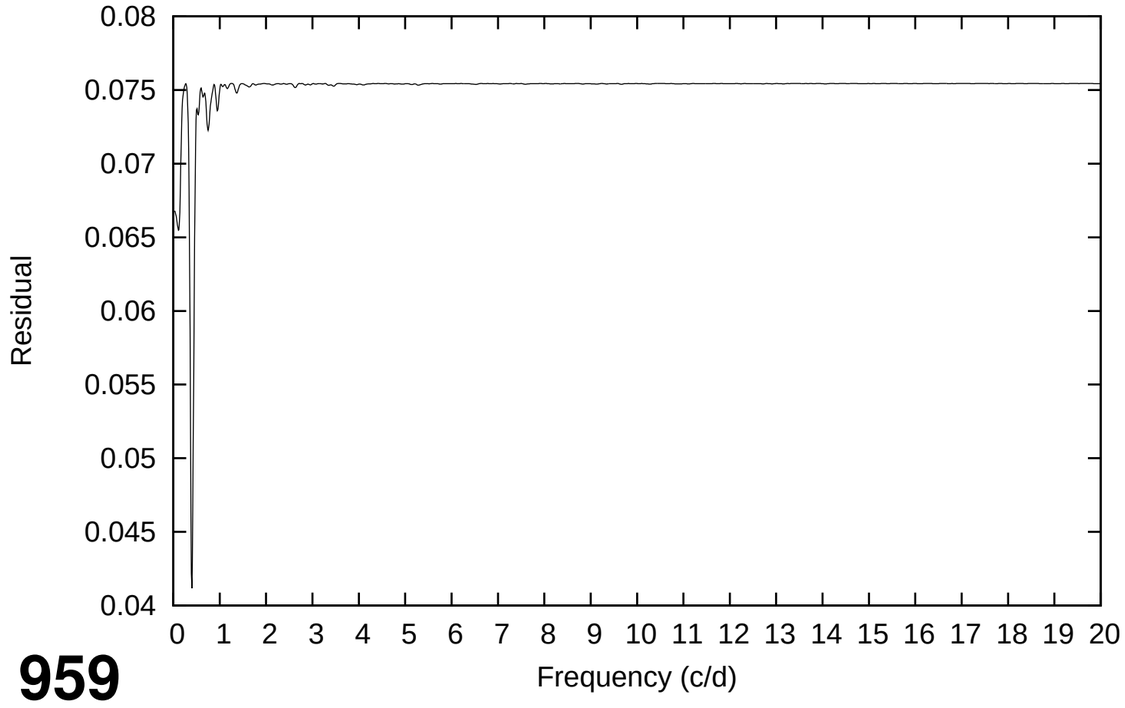

Residual
Frequency (c/d)
0.0575
0.057
0.0565
0.056
0.0555
0.055
0.0545
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

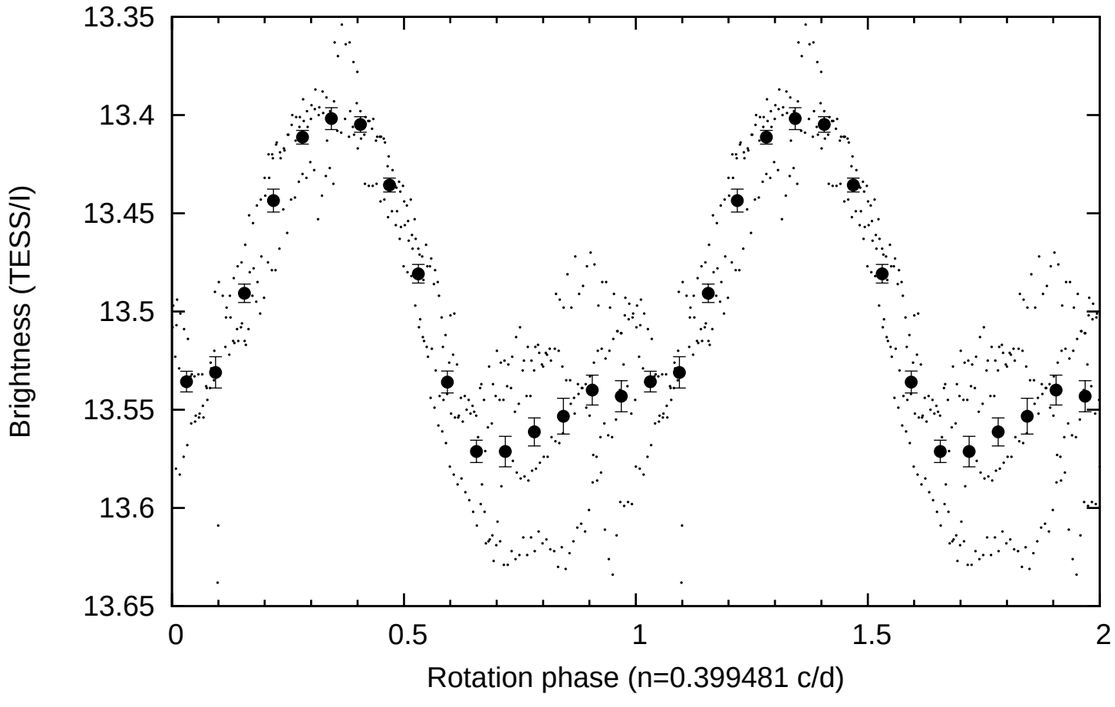

Brightness (TESS/I)
Rotation phase (n=1.12595 c/d)
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
0
0.5
1
1.5
2

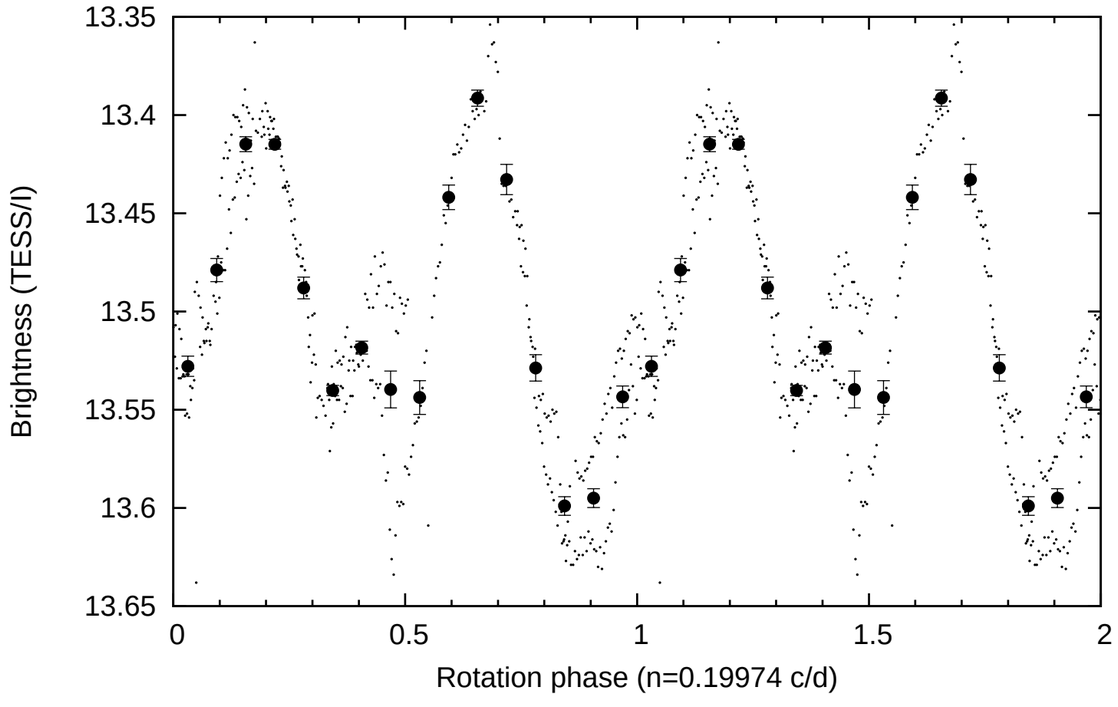

Brightness (TESS/I)
Rotation phase (n=0.562975 c/d)
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
0
0.5
1
1.5
2


Brightness (TESS/I)
Time (t-2458395)
13.3
13.4
13.5
13.6
13.7
13.8
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2

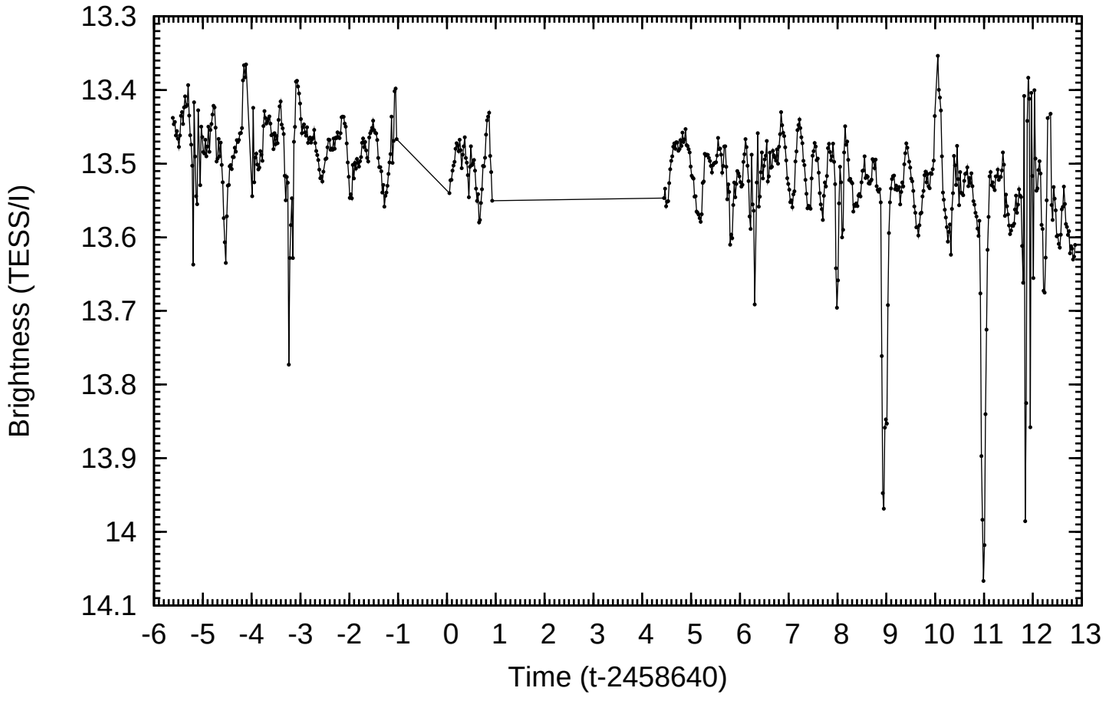
959

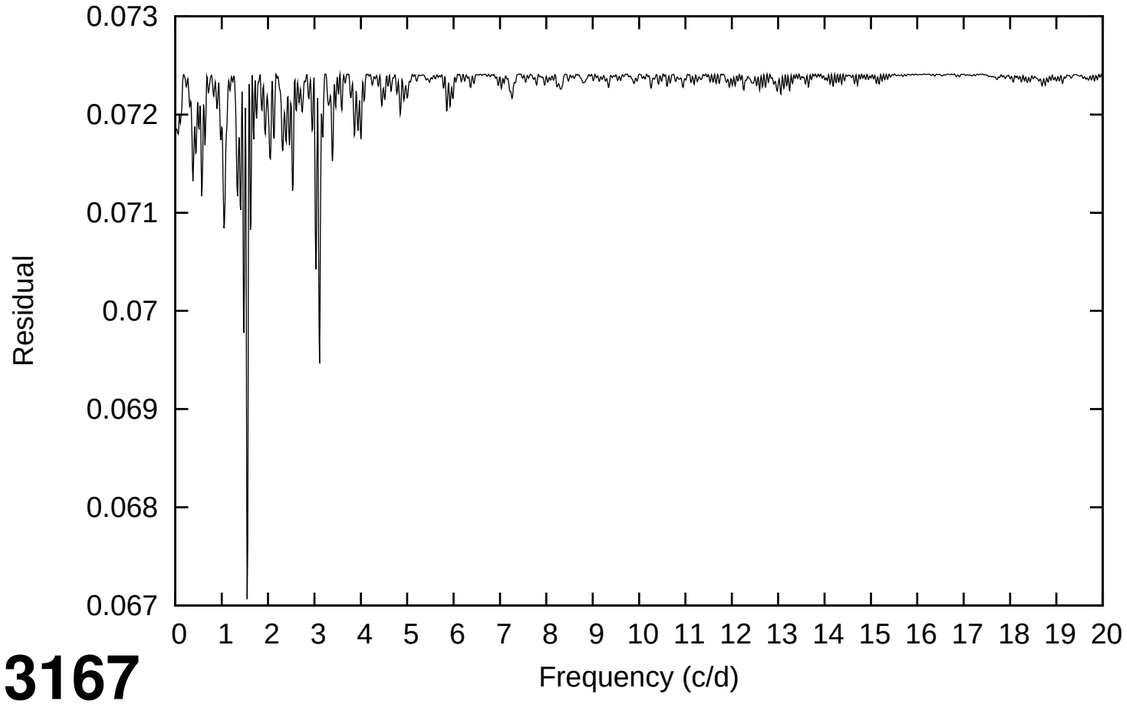

Residual
Frequency (c/d)
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

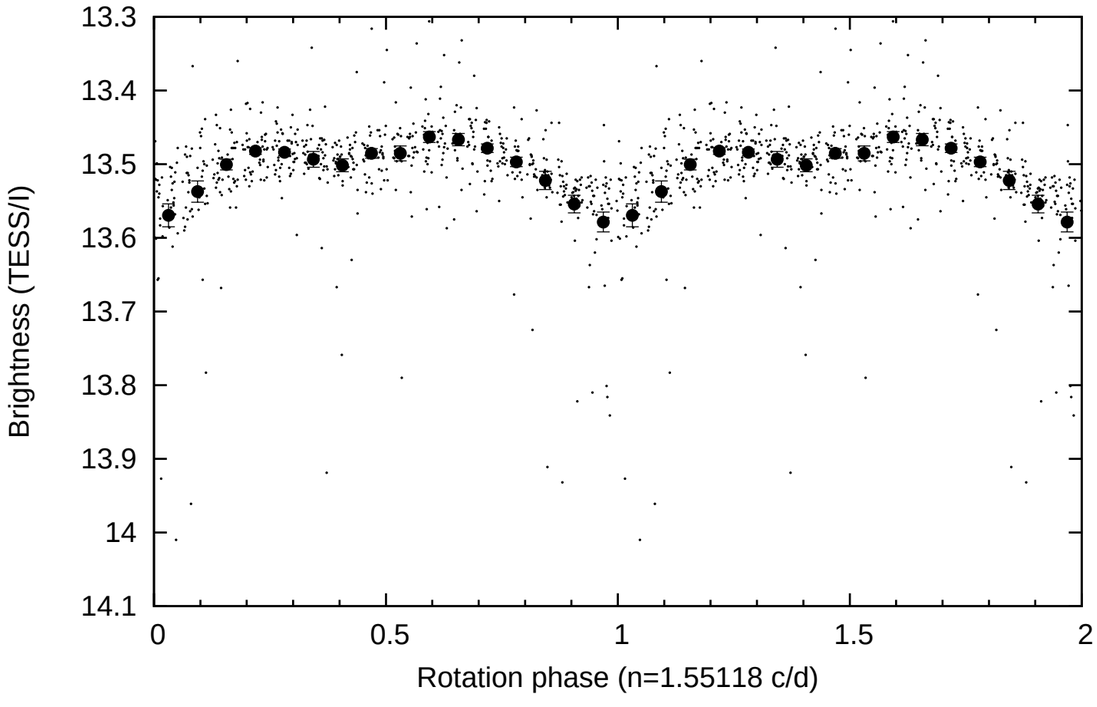

Brightness (TESS/I)
Rotation phase (n=0.399481 c/d)
13.35
13.4
13.45
13.5
13.55
13.6
13.65
0
0.5
1
1.5
2

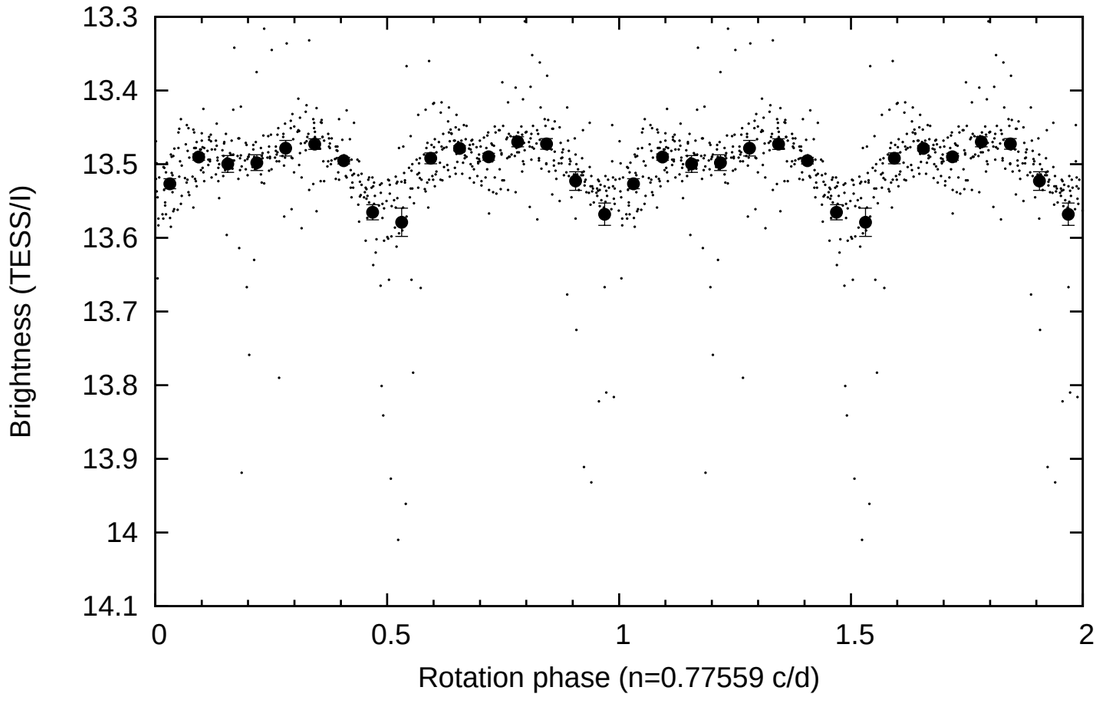

Brightness (TESS/I)
Rotation phase (n=0.19974 c/d)
13.35
13.4
13.45
13.5
13.55
13.6
13.65
0
0.5
1
1.5
2

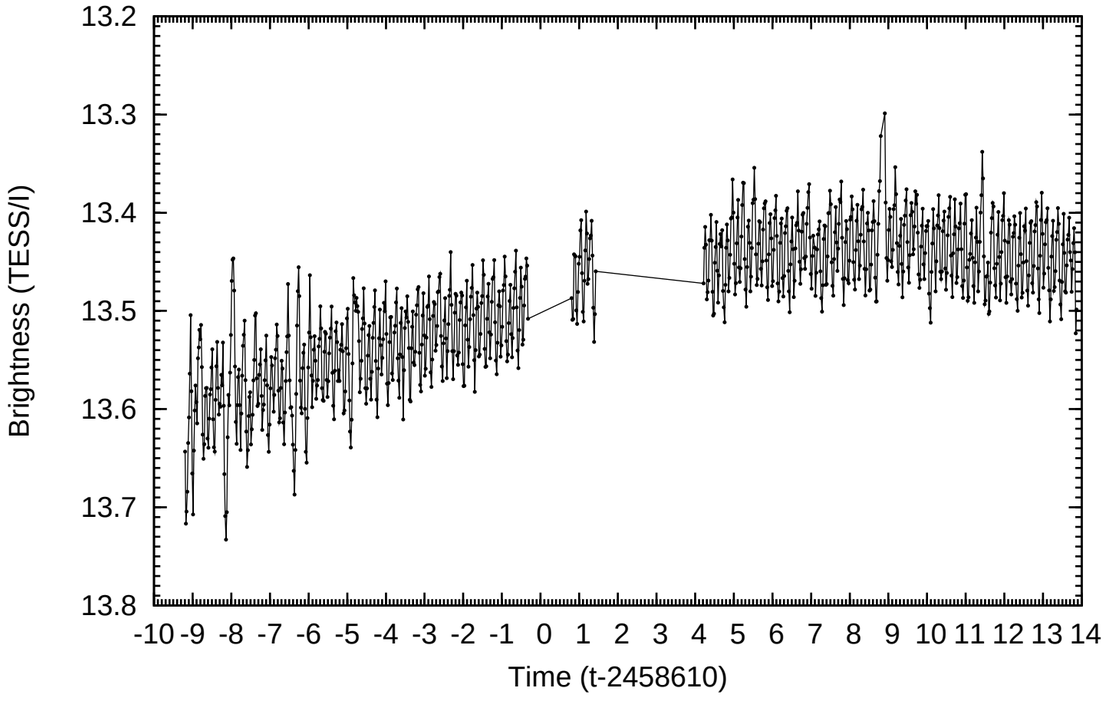
3167

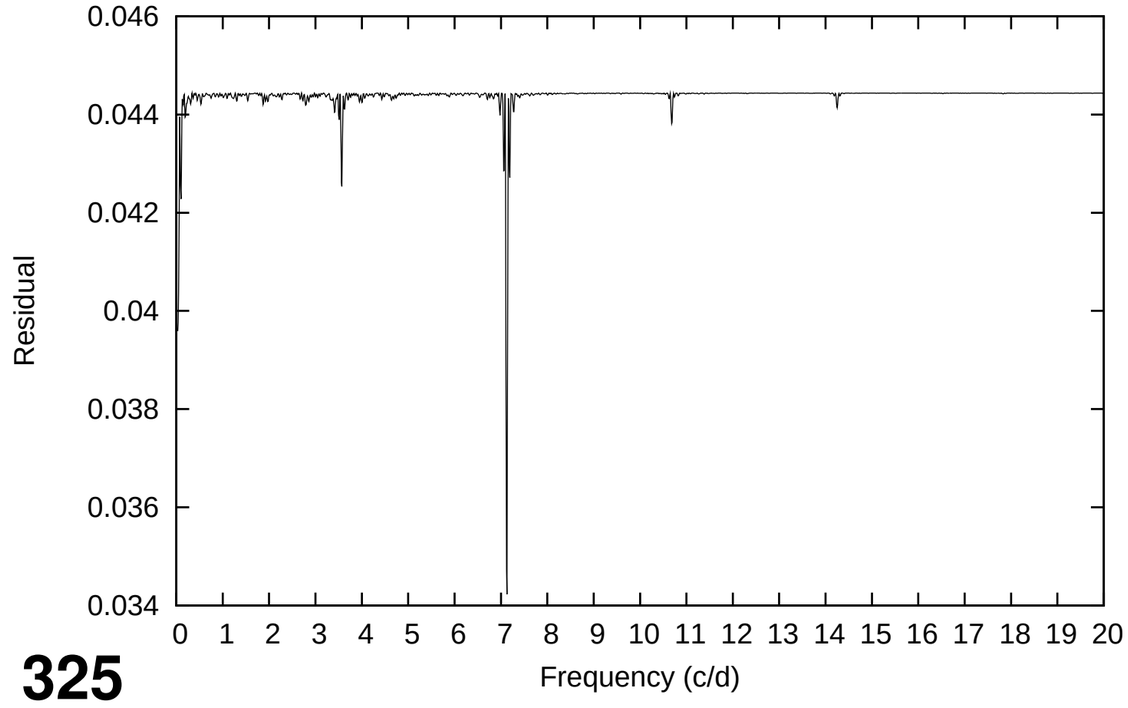

Brightness (TESS/I)
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (t-2458640)


Residual
0.073
0.072
0.071
0.07
0.069
0.068
0.067
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

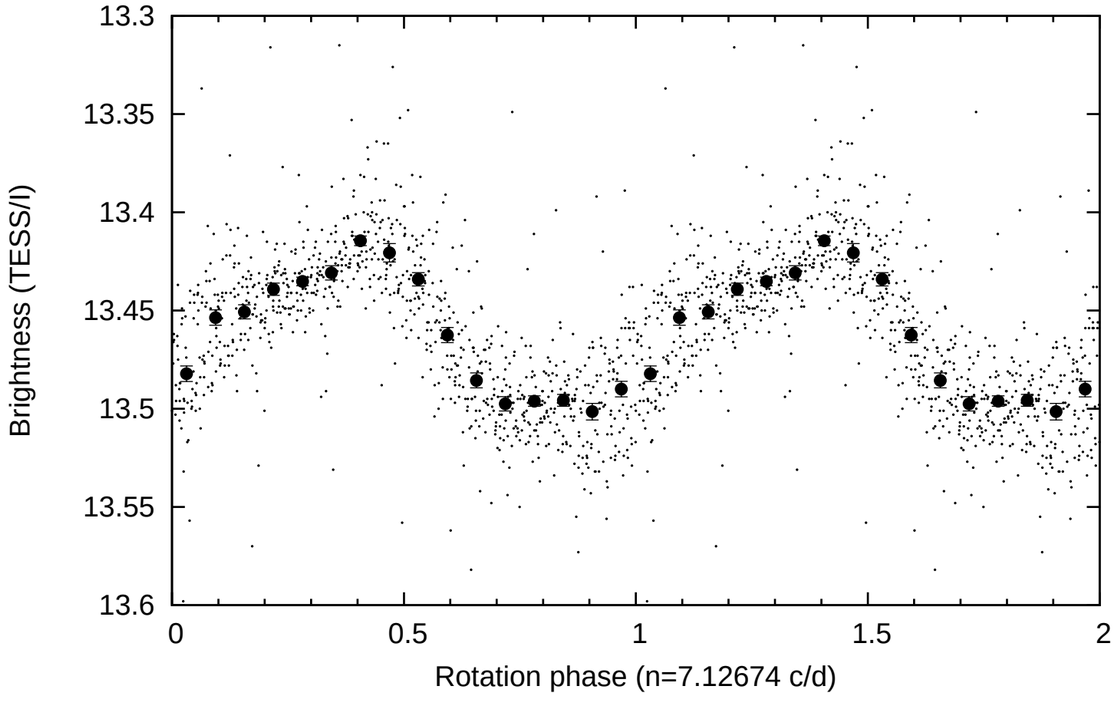

Brightness (TESS/I)
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
0 0.5 1 1.5 2
Rotation phase (n=1.55118 c/d)

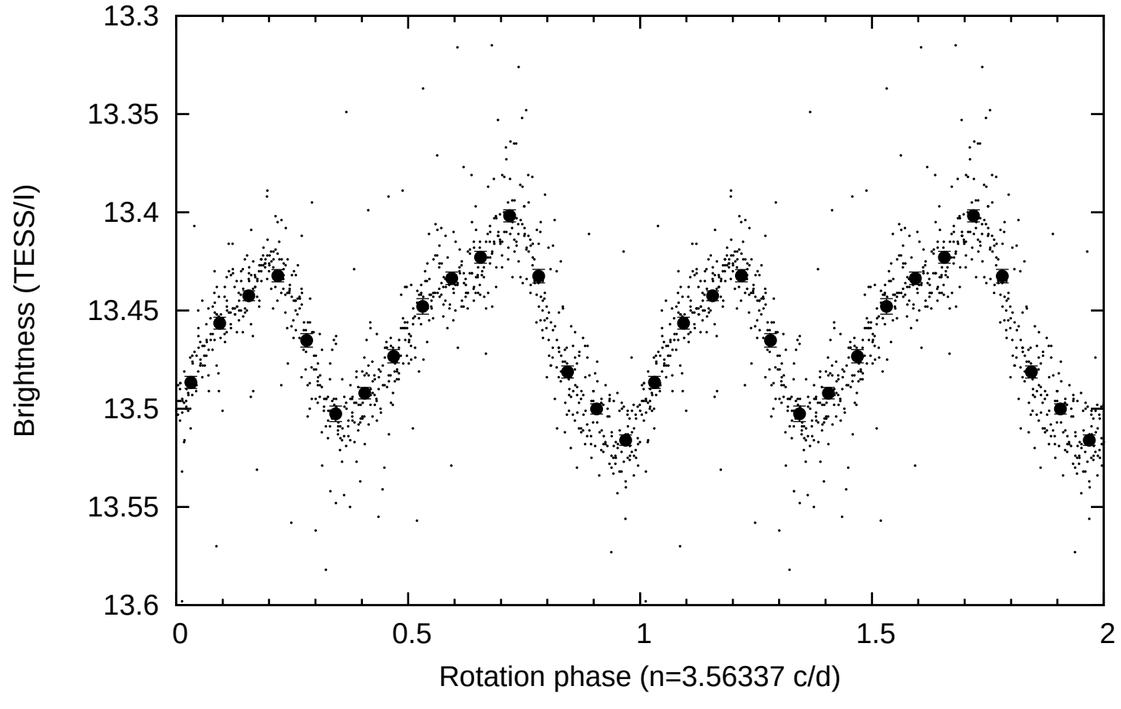

Brightness (TESS/I)
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
0 0.5 1 1.5 2
Rotation phase (n=0.77559 c/d)

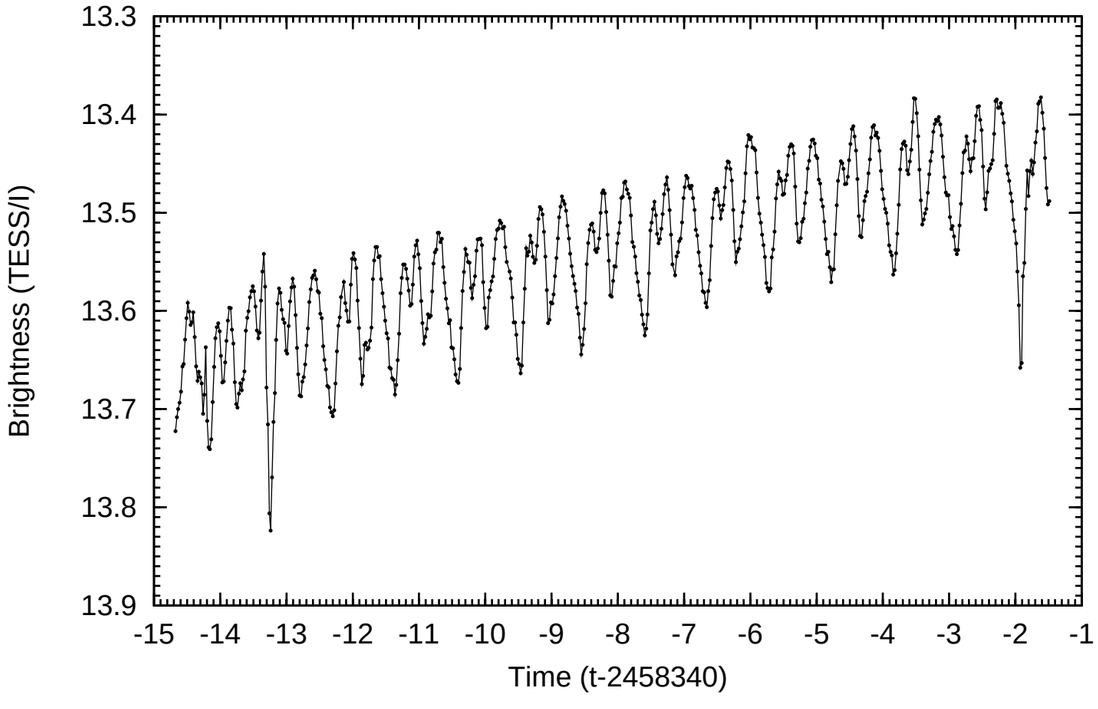

Brightness (TESS/I)
Time (t-2458610)

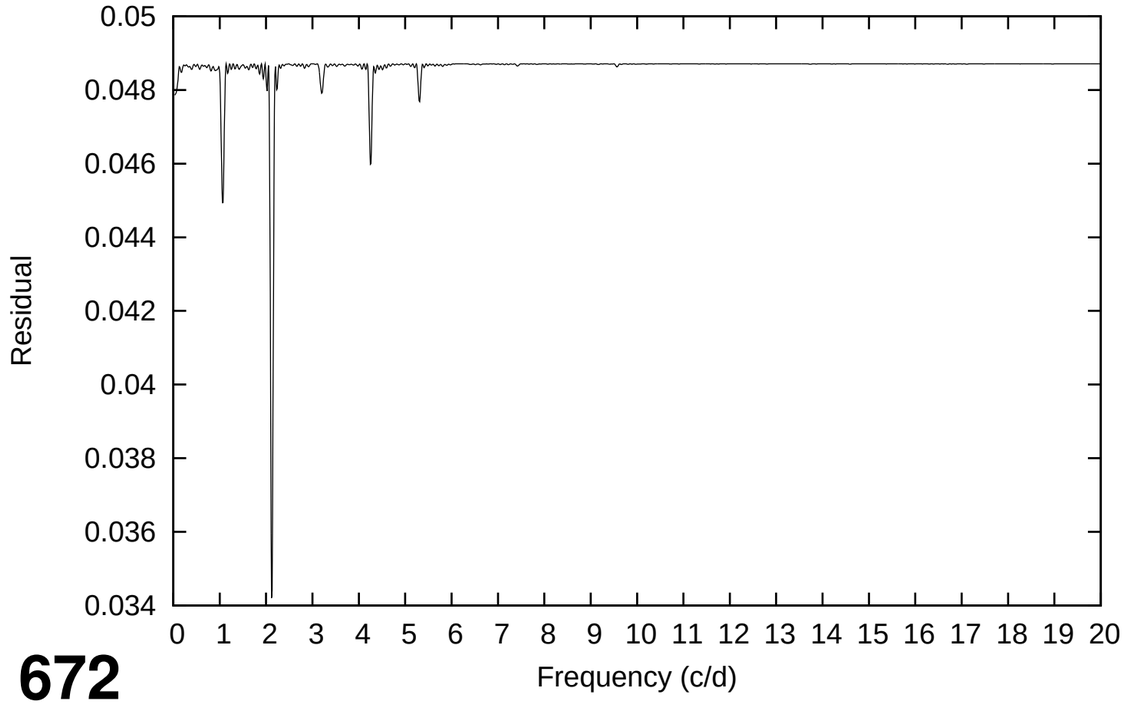

Residual
Frequency (c/d)

325

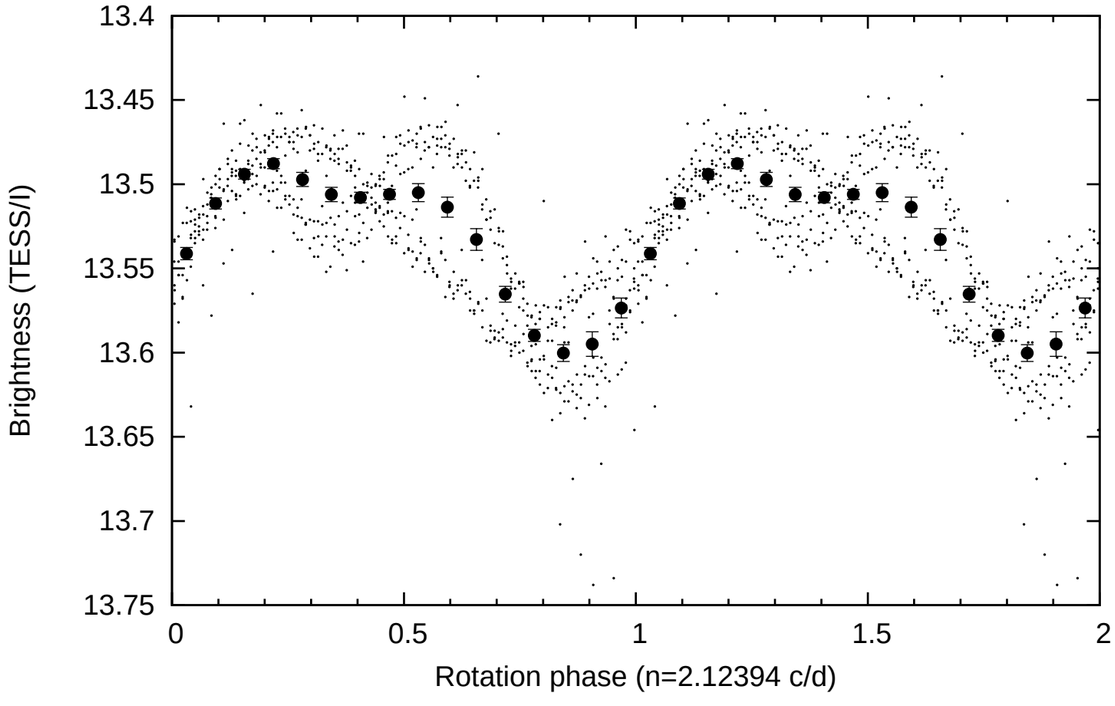

Brightness (TESS/I)
Rotation phase (n=7.12674 c/d)

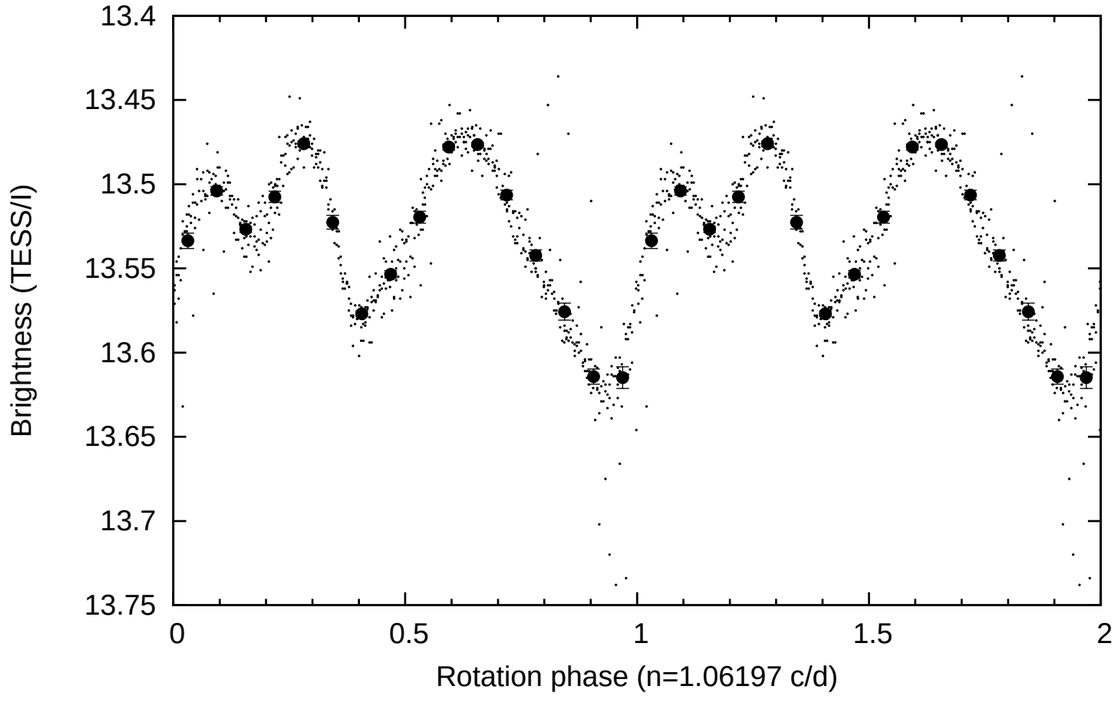

Brightness (TESS/I)
Rotation phase (n=3.56337 c/d)

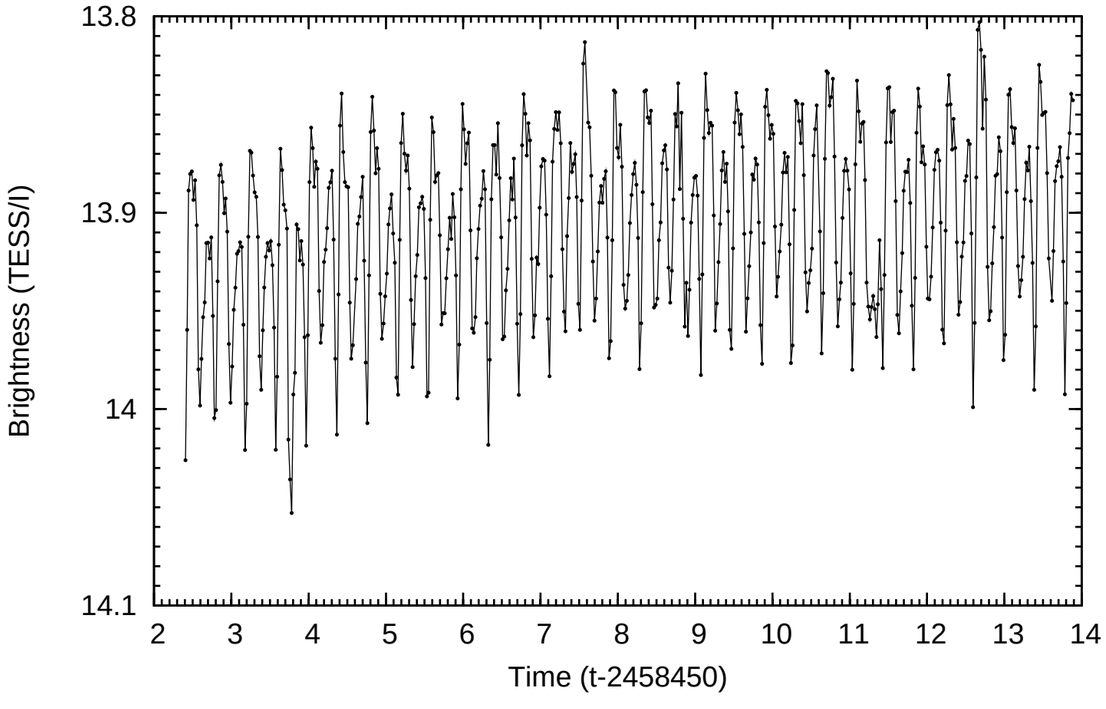

Brightness (TESS/I)
Time (t-2458340)

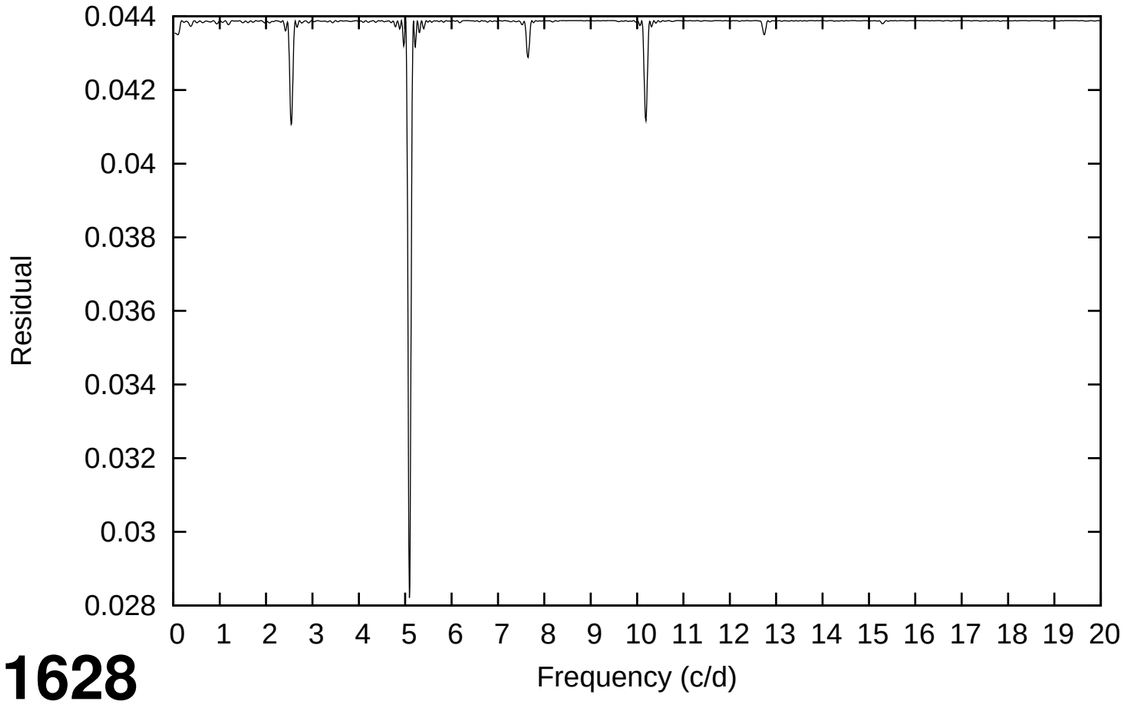

Residual
Frequency (c/d)

672

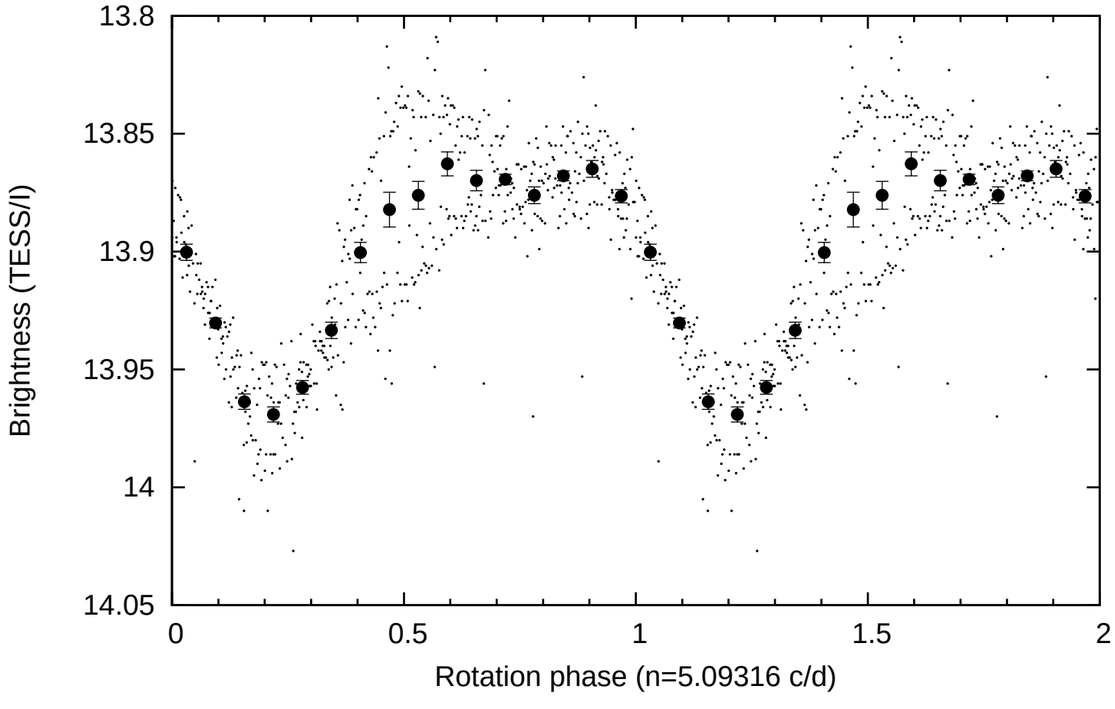

Brightness (TESS/I)
Rotation phase (n=2.12394 c/d)

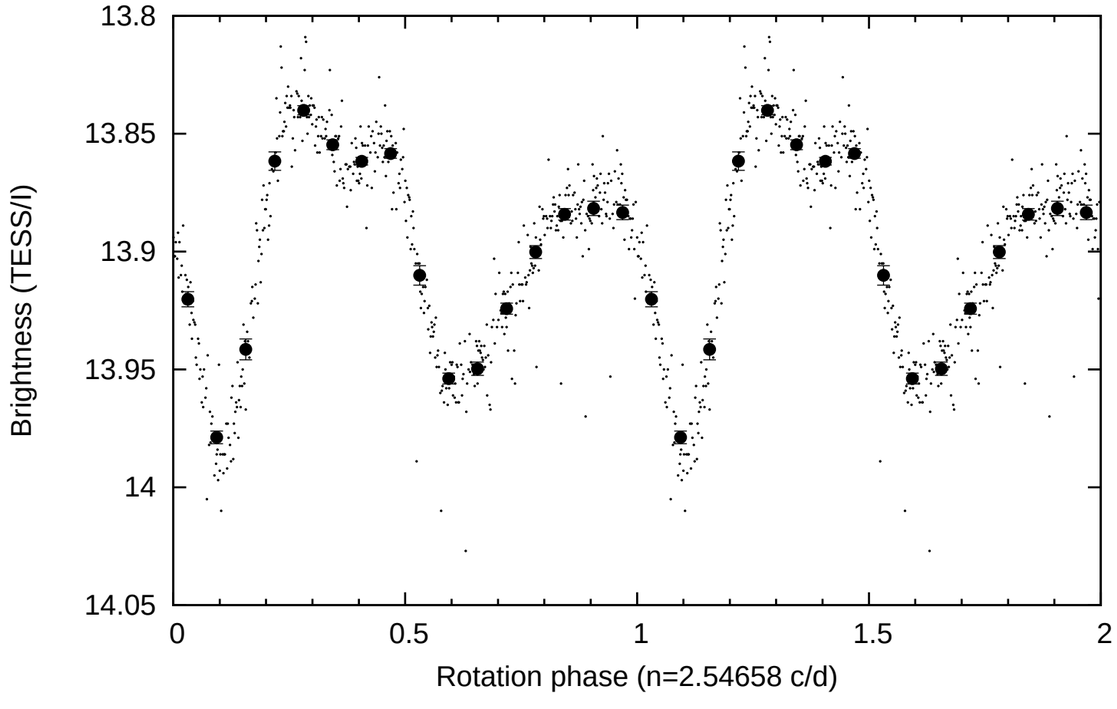

Brightness (TESS/I)
Rotation phase (n=1.06197 c/d)

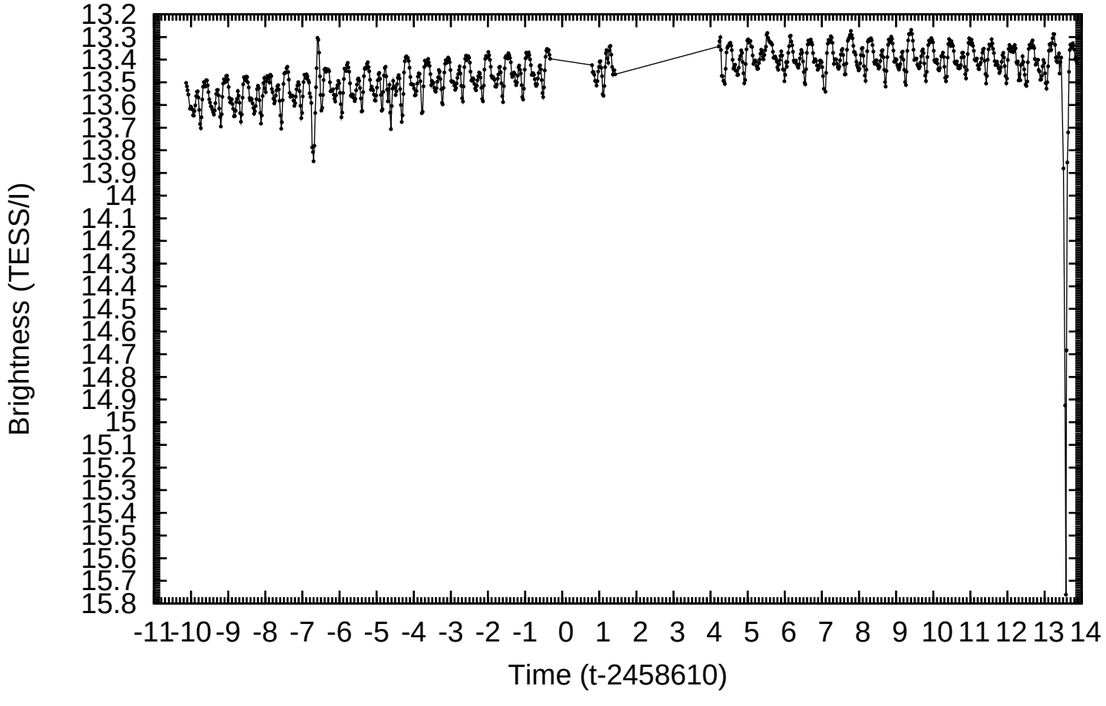

13.8
13.9
14
14.1
Brightness (TESS/I)
2
3
4
5
6
7
8
9
10
11
12
13
14
Time (t-2458450)

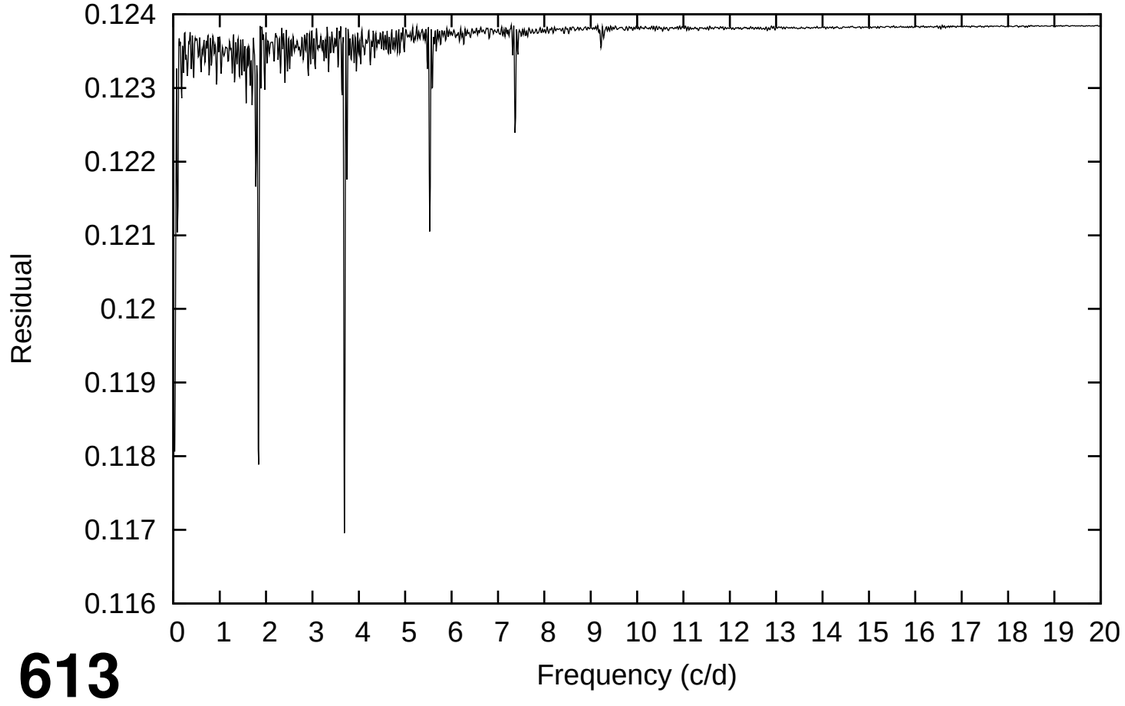

0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
Residual
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Frequency (c/d)

1628

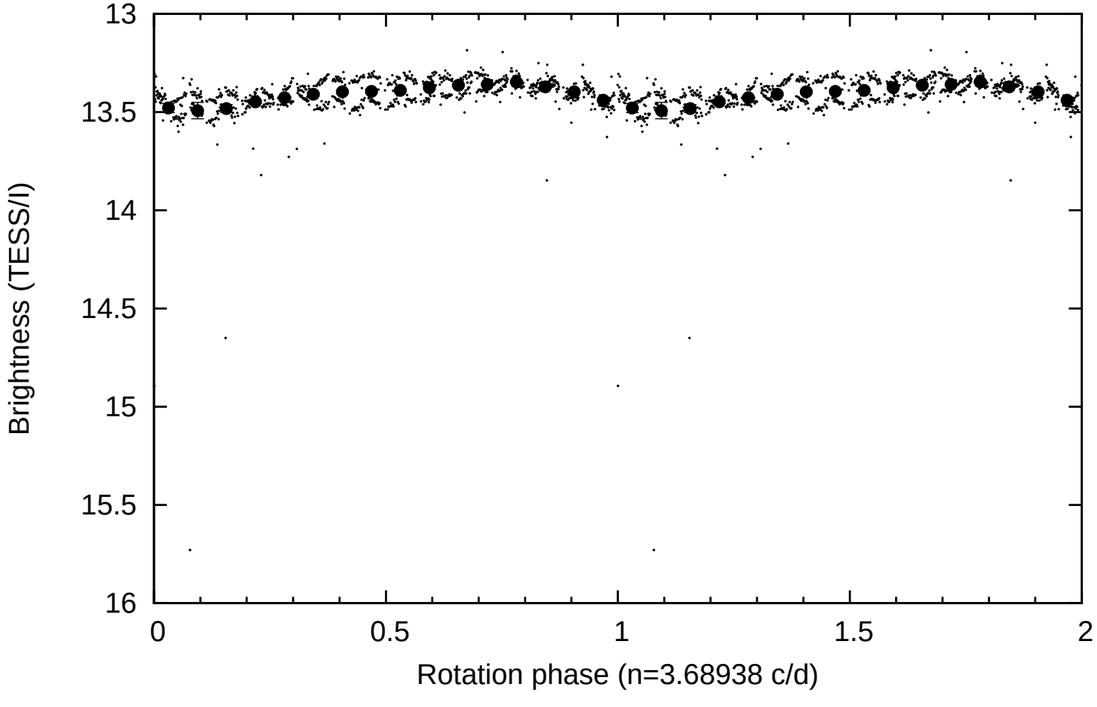

13.8
13.85
13.9
13.95
14
14.05
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=5.09316 c/d)

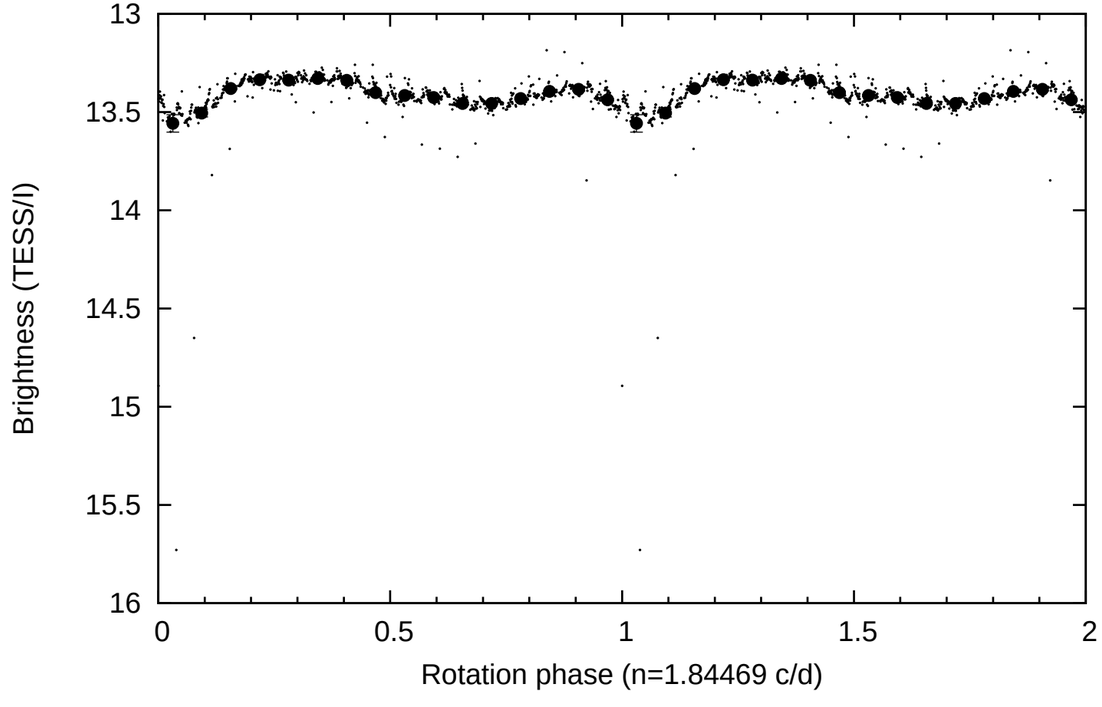

13.8
13.85
13.9
13.95
14
14.05
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=2.54658 c/d)

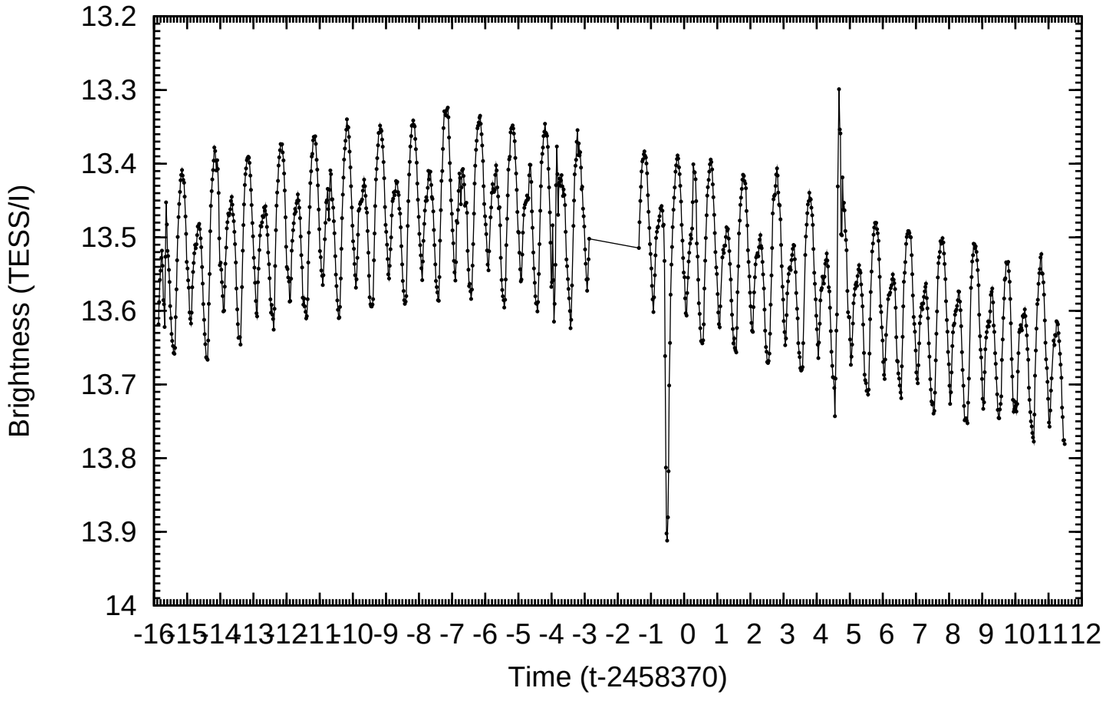

Brightness (TESS/I)
Time (t-2458610)

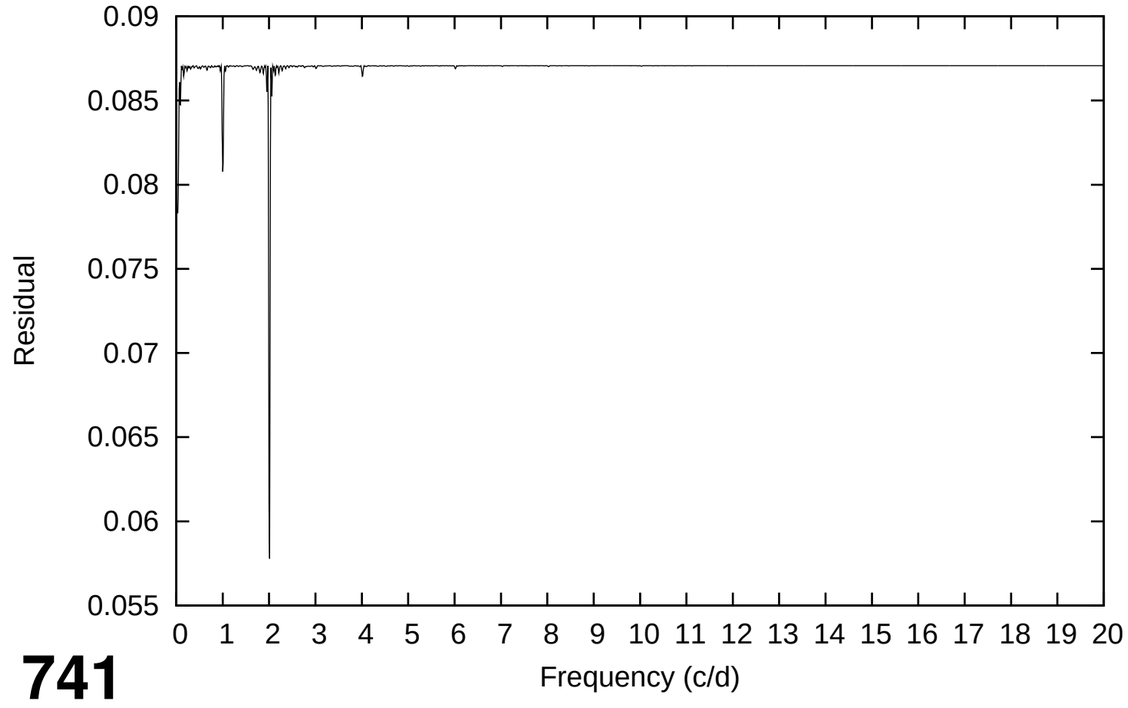

Residual
Frequency (c/d)

613

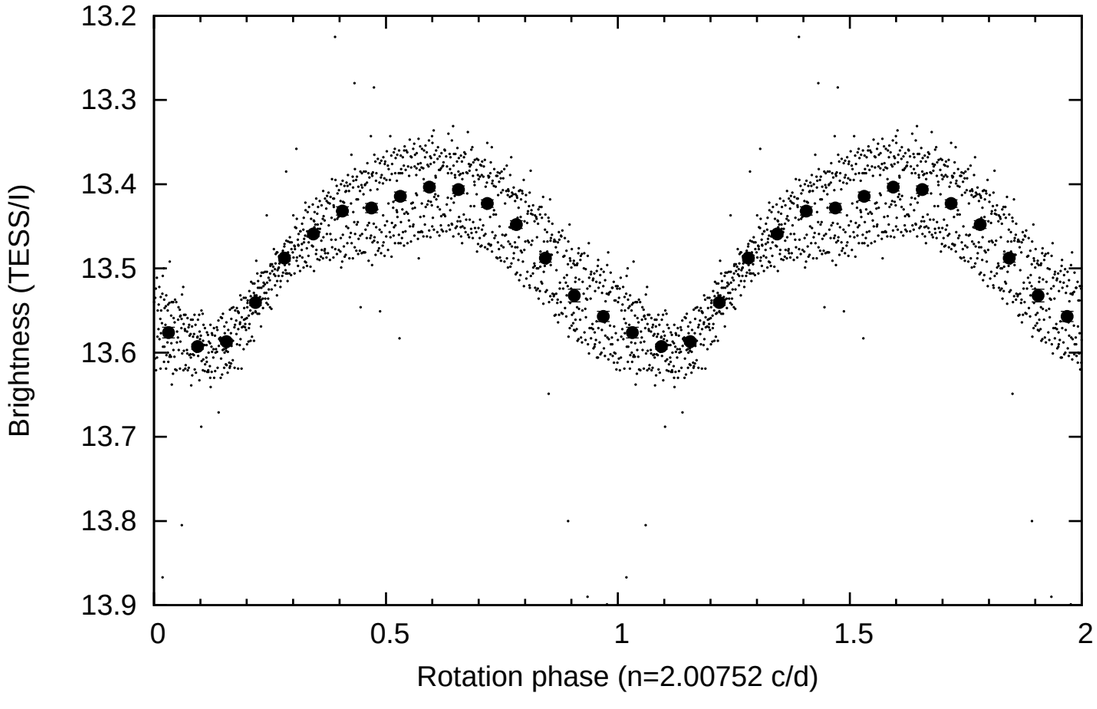

Brightness (TESS/I)
Rotation phase (n=3.68938 c/d)

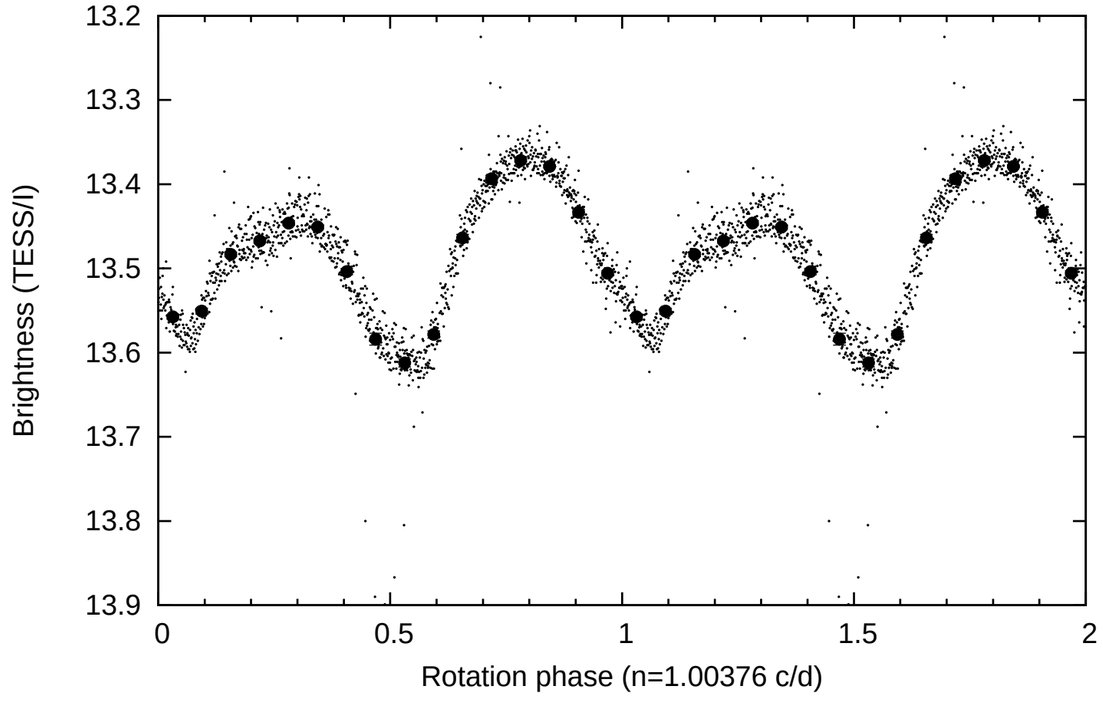

Brightness (TESS/I)
Rotation phase (n=1.84469 c/d)

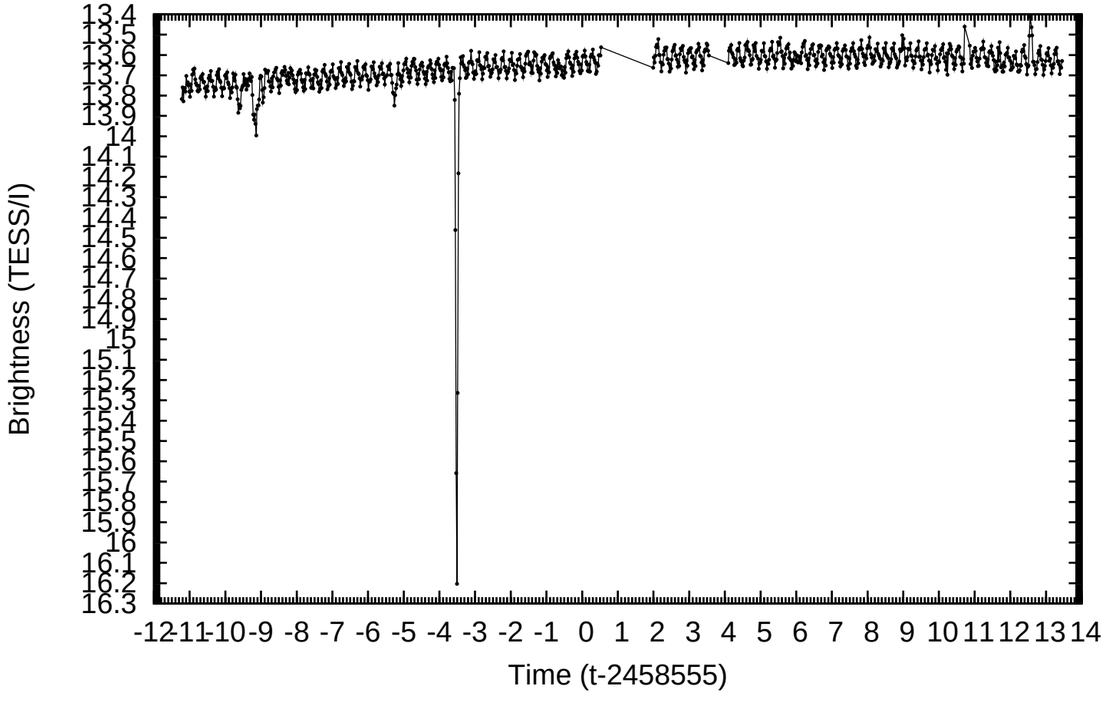

Brightness (TESS/I)
Time (t-2458370)

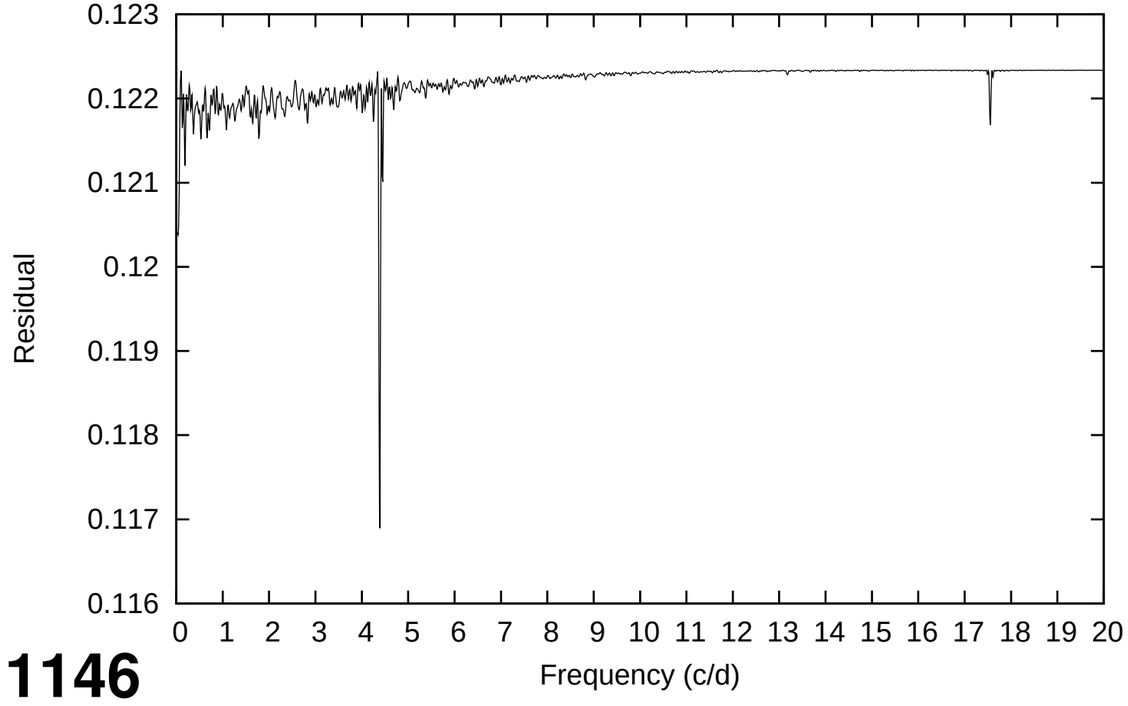

Residual
Frequency (c/d)

741

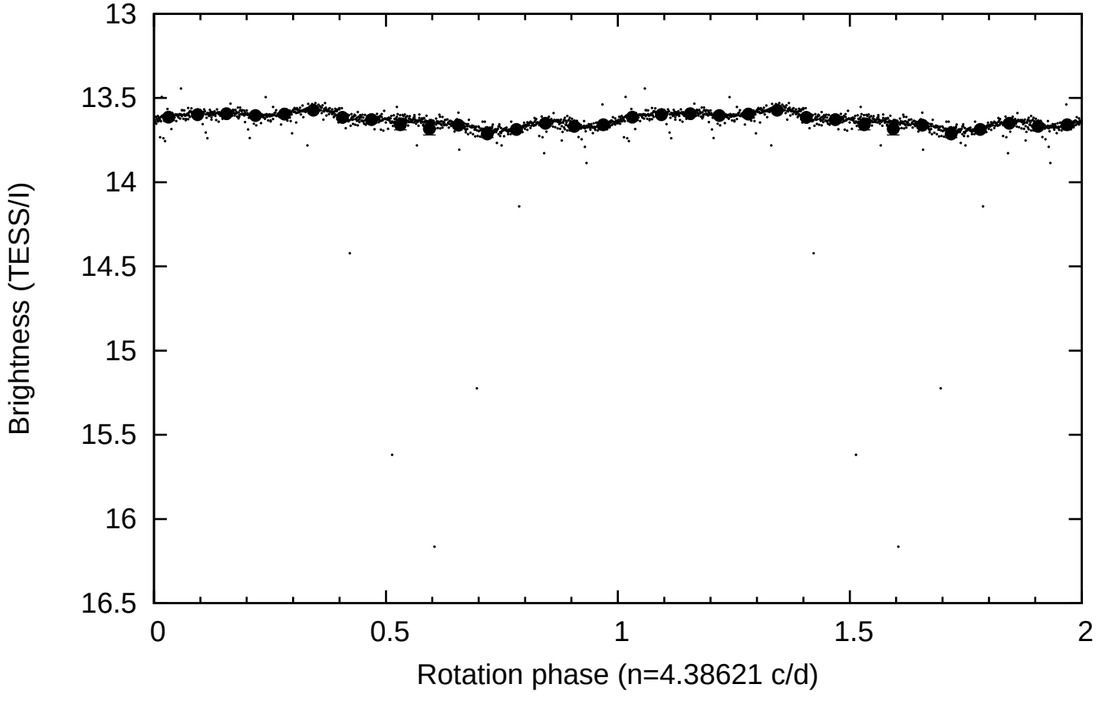

Brightness (TESS/I)
Rotation phase (n=2.00752 c/d)

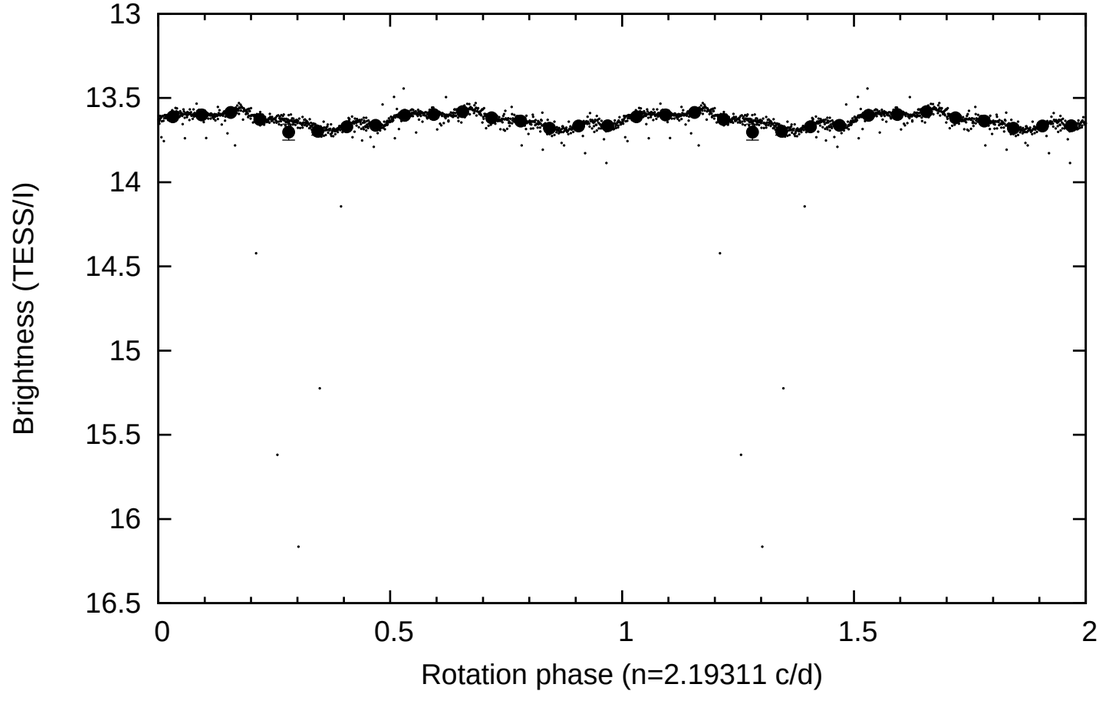

Brightness (TESS/I)
Rotation phase (n=1.00376 c/d)

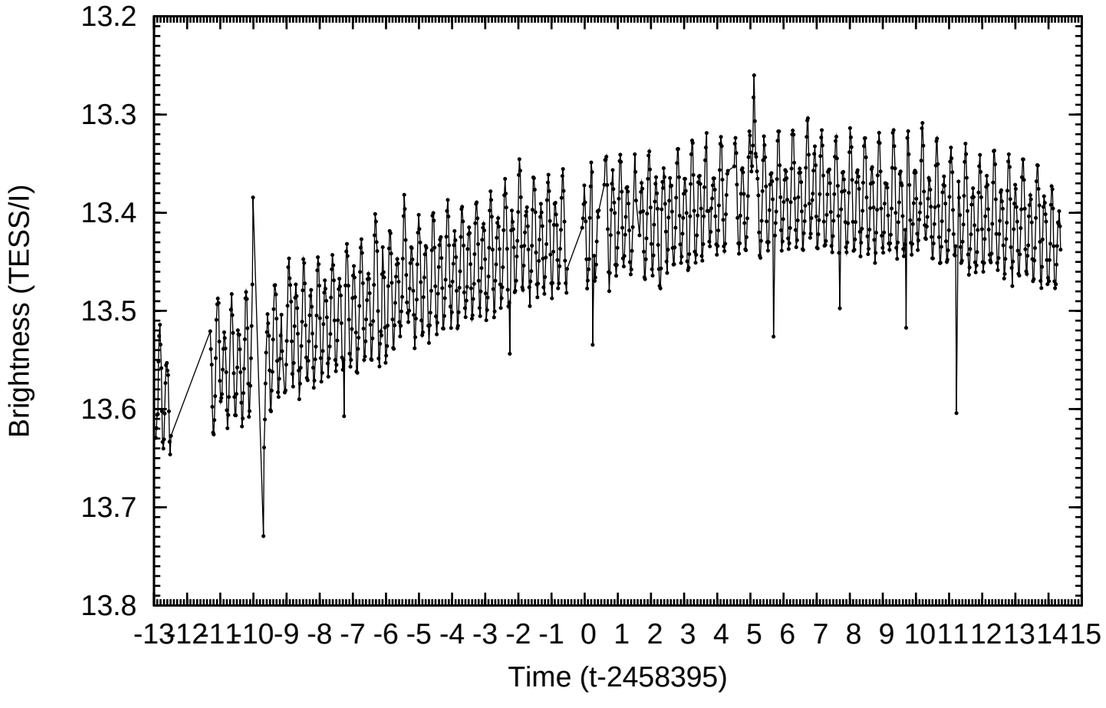

Brightness (TESS/I)
Time (t-2458555)

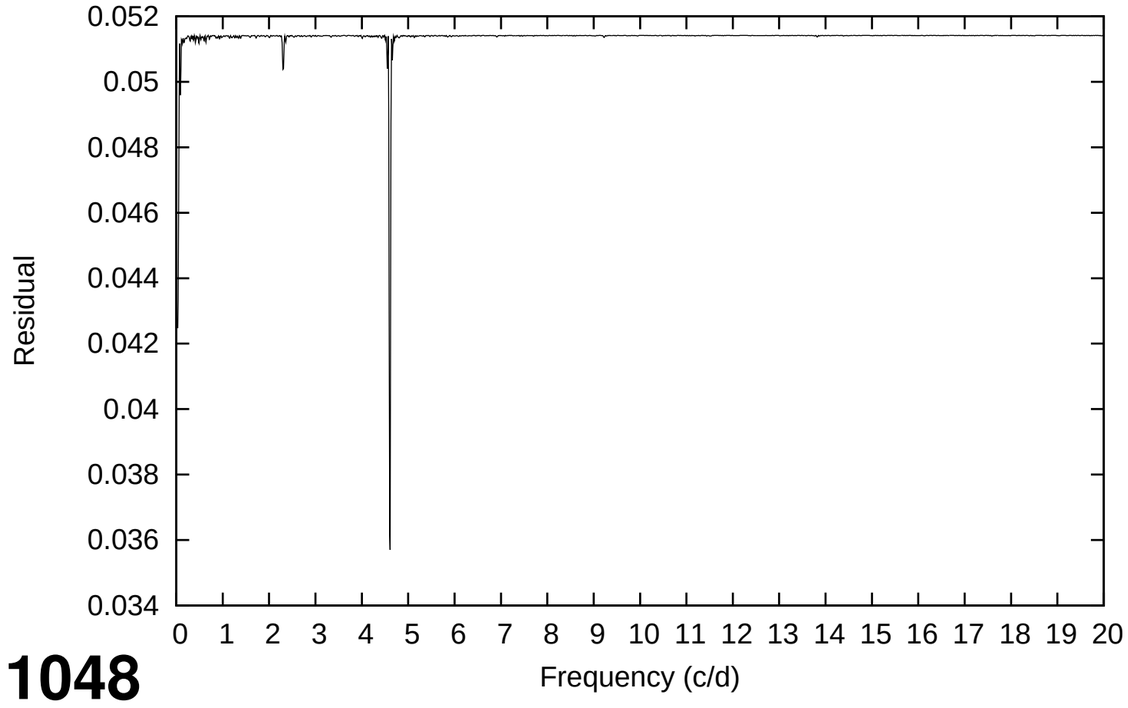

Residual
Frequency (c/d)

1146

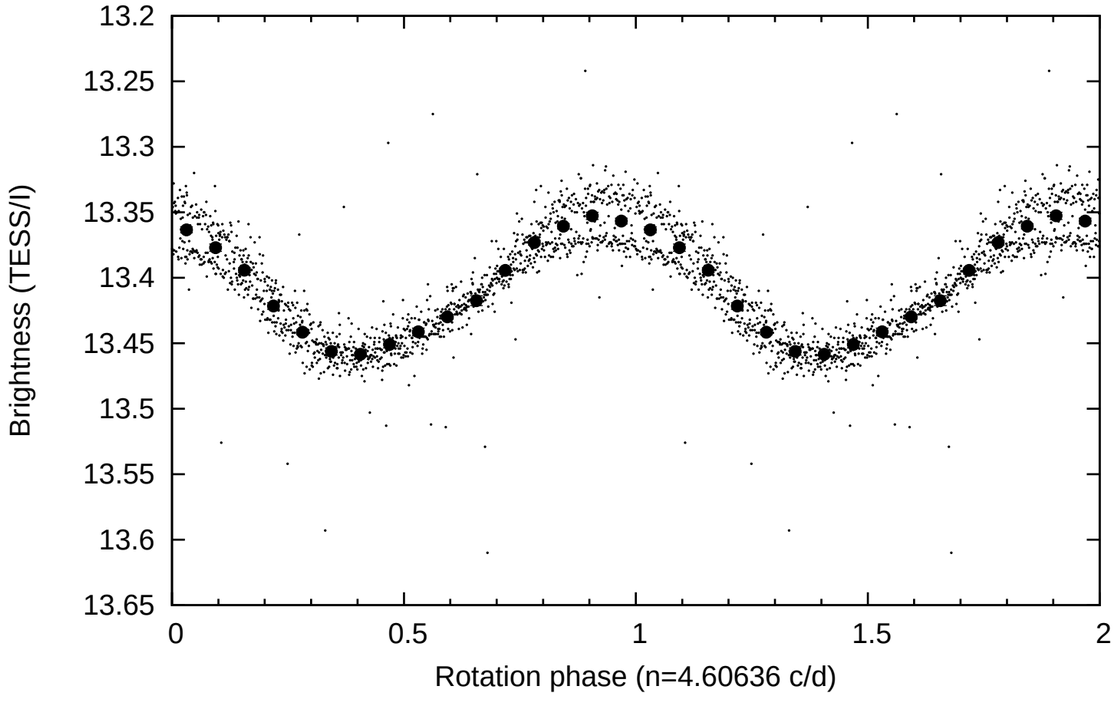

Brightness (TESS/I)
Rotation phase (n=4.38621 c/d)

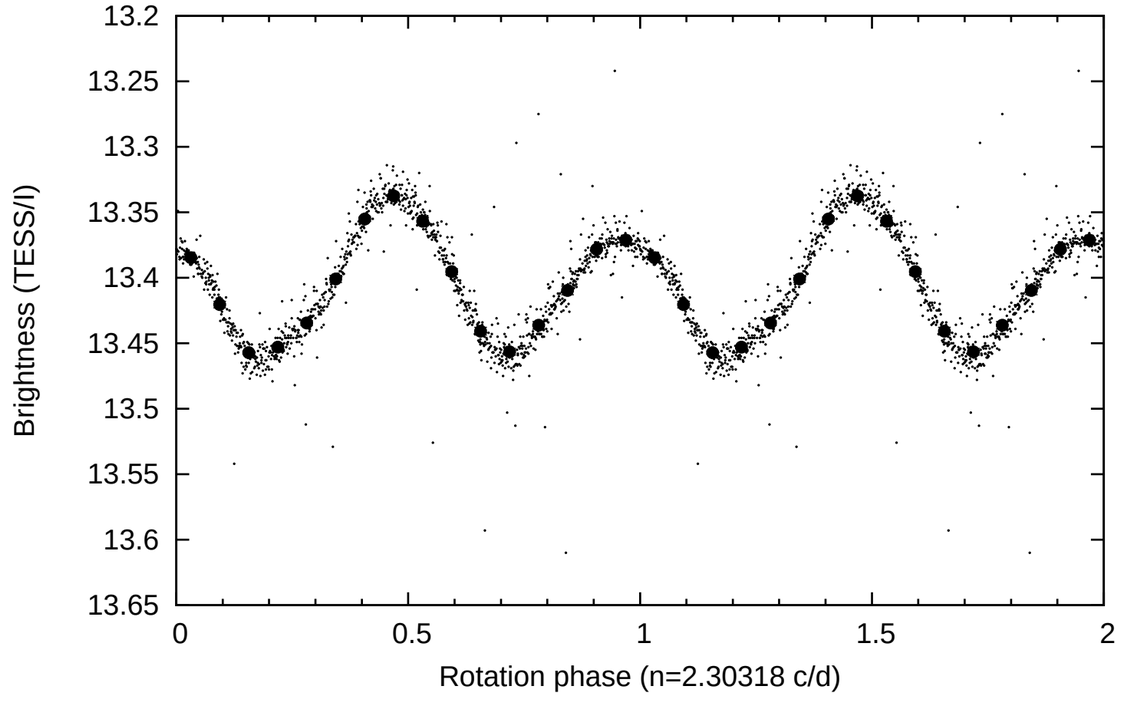

Brightness (TESS/I)
Rotation phase (n=2.19311 c/d)

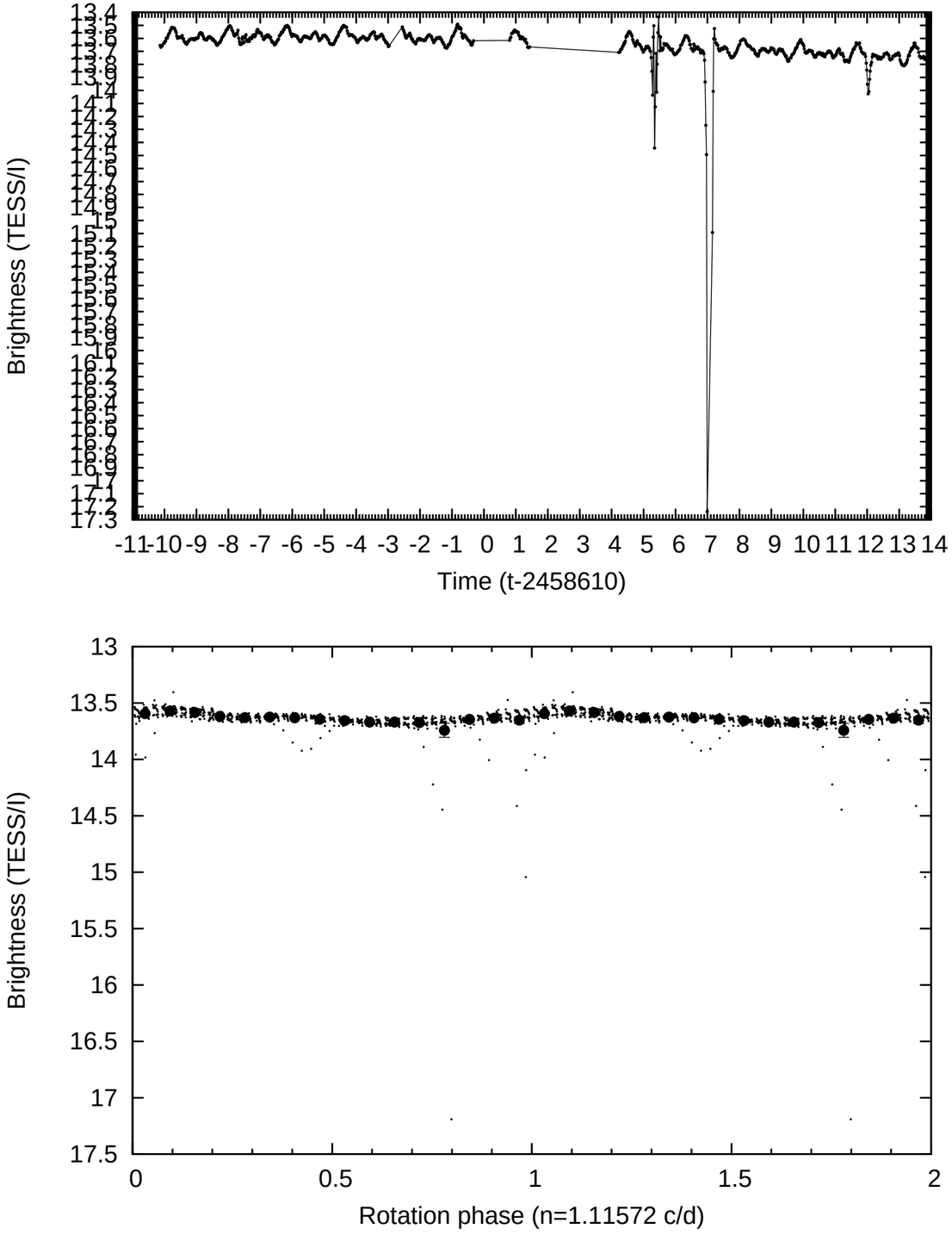

Brightness (TESS/I)
Time (t-2458395)

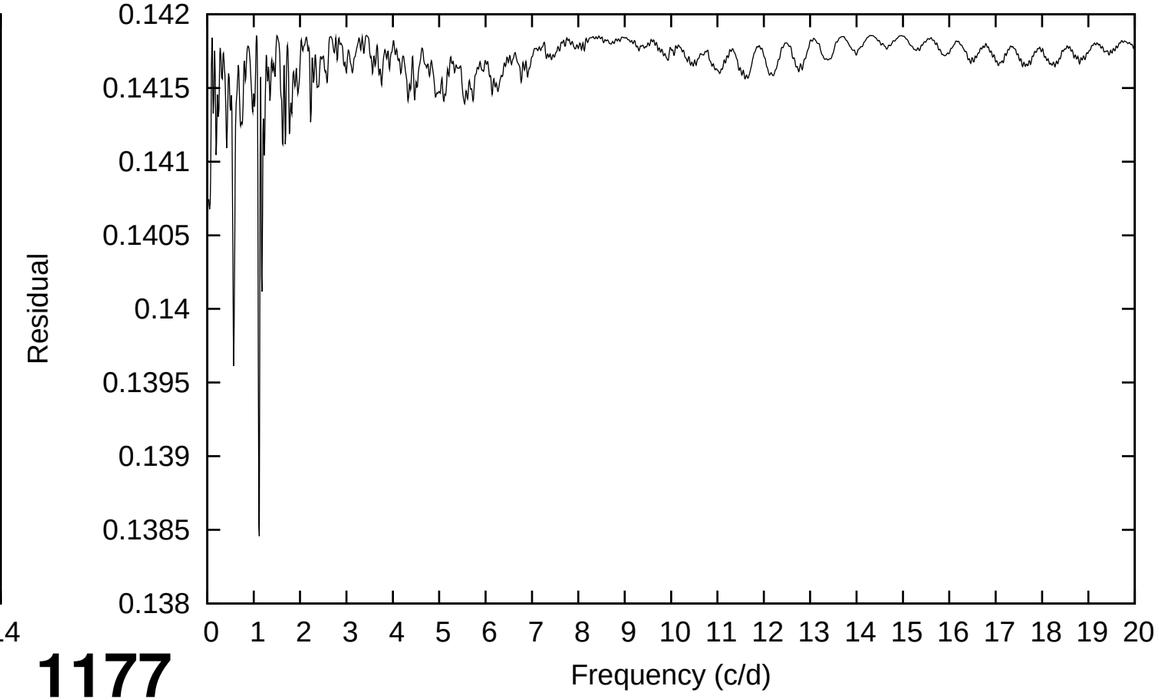

Residual
Frequency (c/d)

1048


Brightness (TESS/I)
Rotation phase (n=4.60636 c/d)

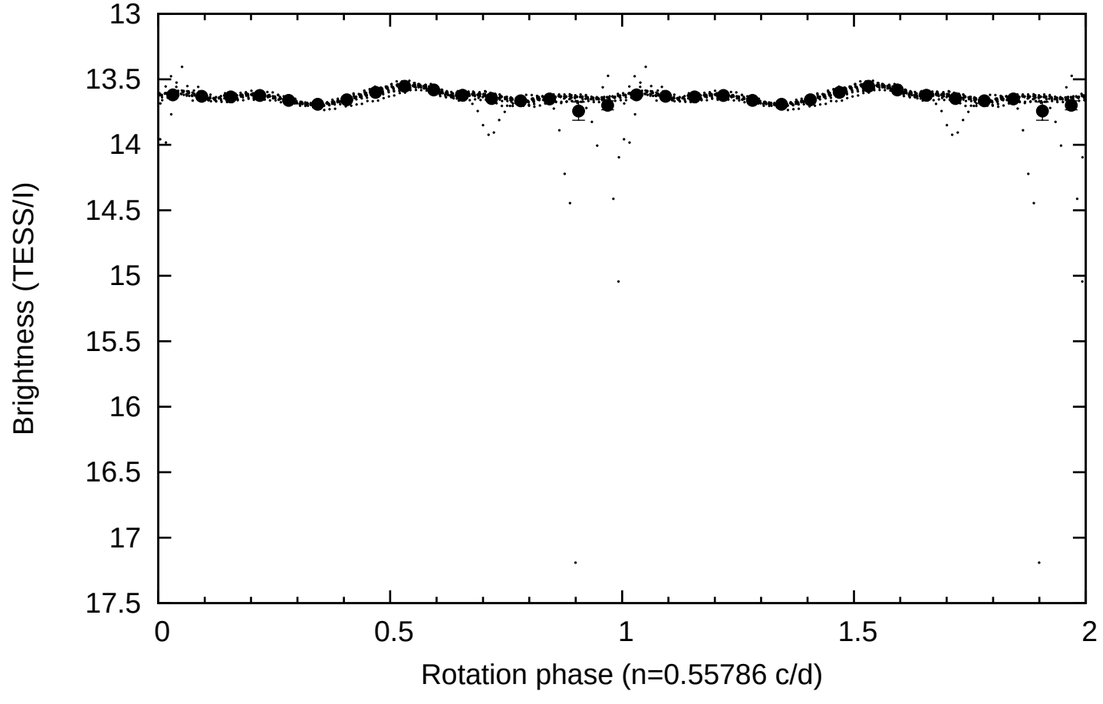

Brightness (TESS/I)
Rotation phase (n=2.30318 c/d)

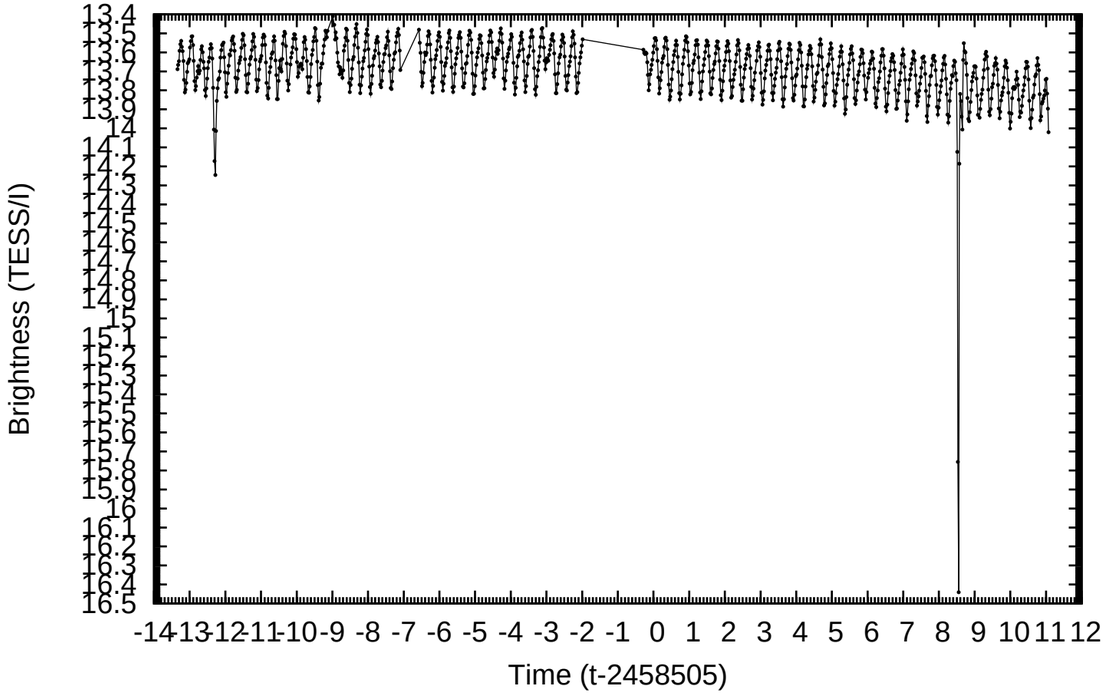

Brightness (TESS/I)
Time (t-2458610)

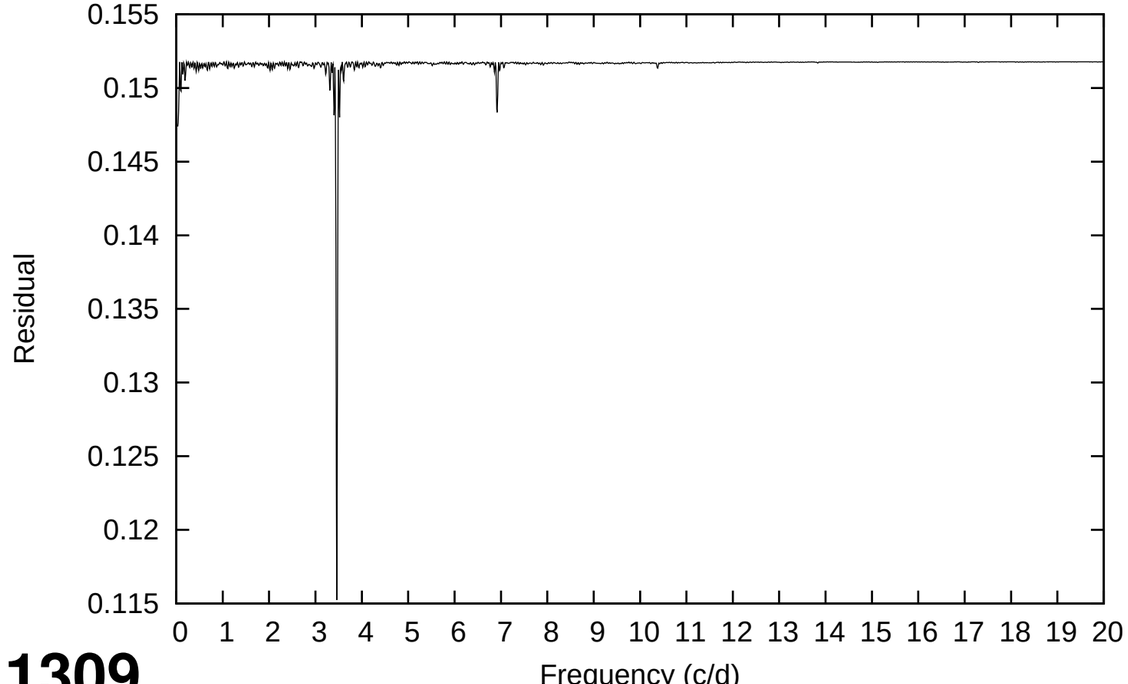

Residual
Frequency (c/d)

1177

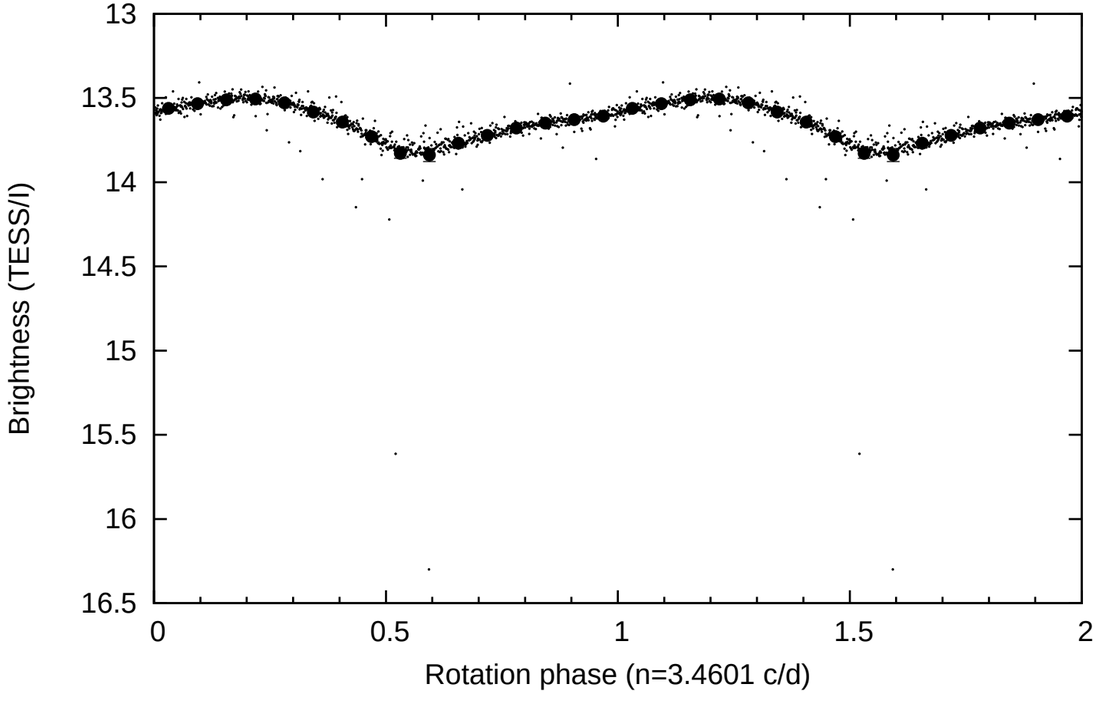
Brightness (TESS/I)
Rotation phase (n=1.11572 c/d)

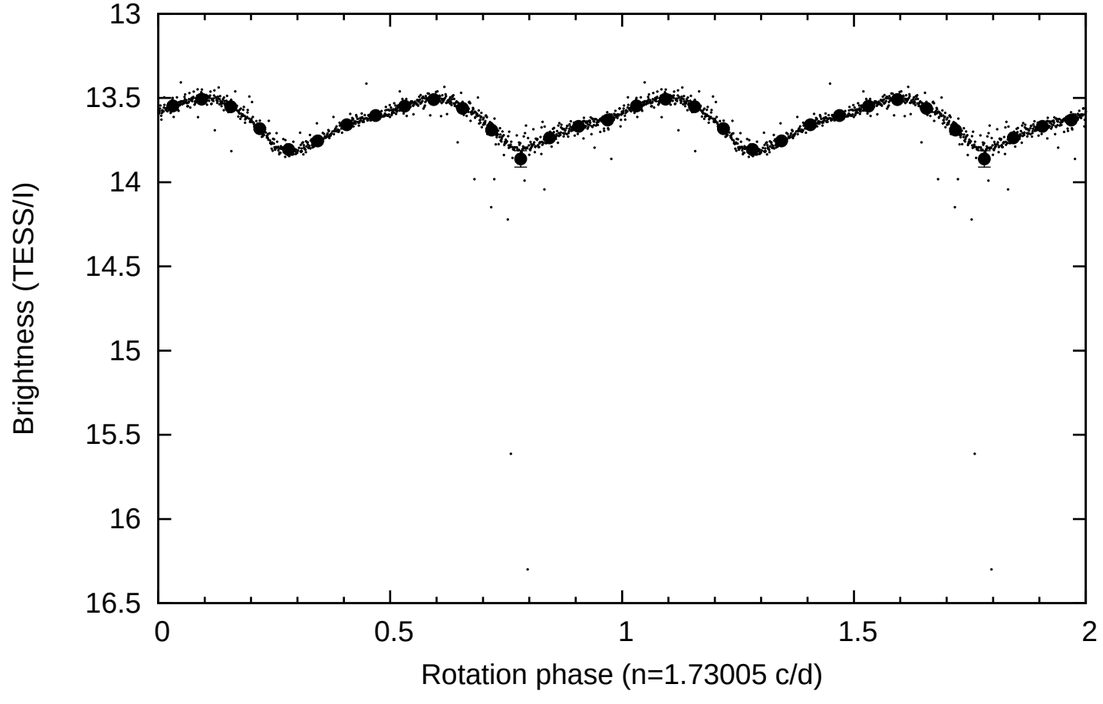

Brightness (TESS/I)
Rotation phase (n=0.55786 c/d)

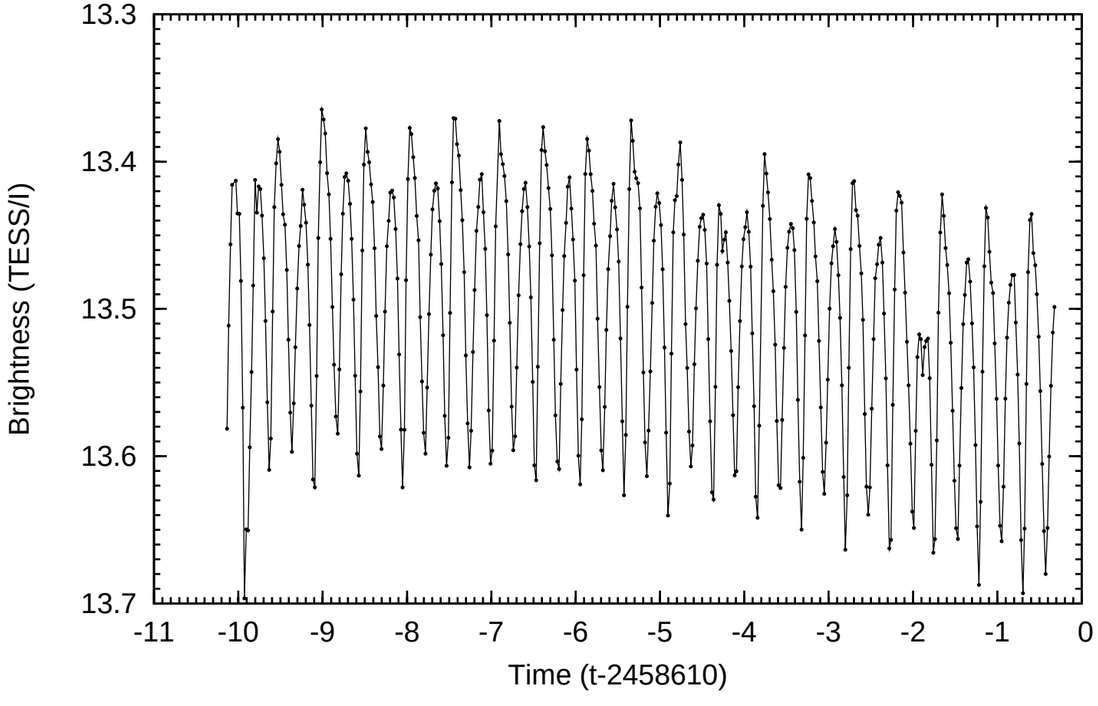

Brightness (TESS/I)
Time (t-2458505)

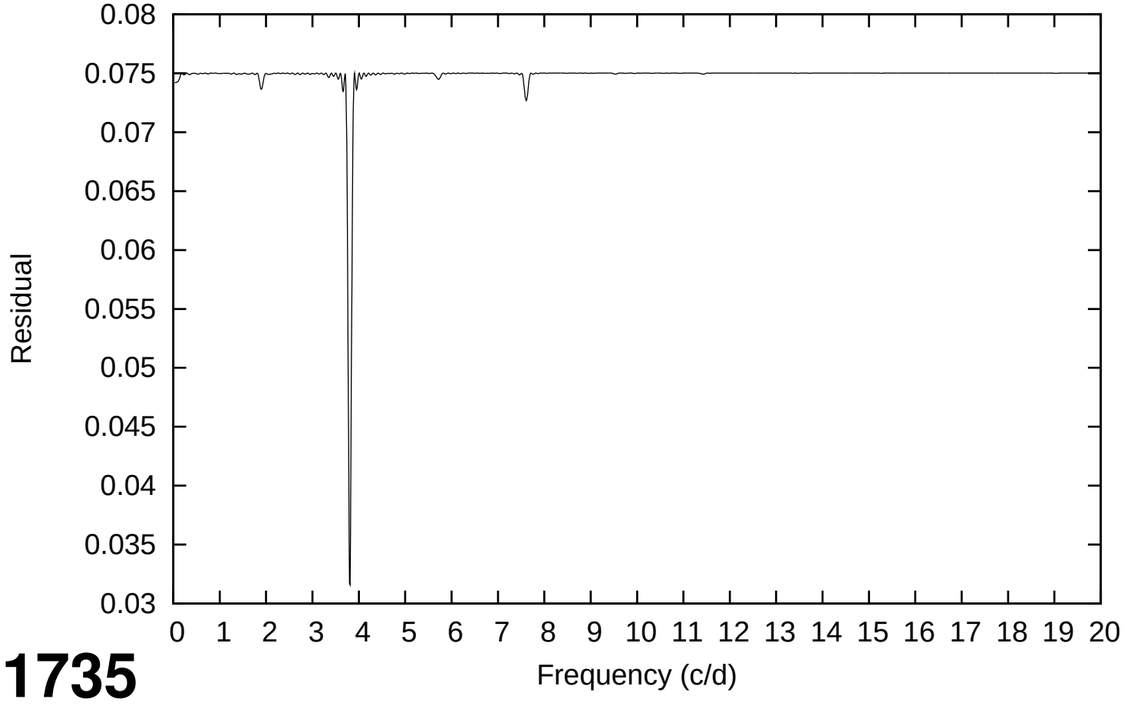

Residual
Frequency (c/d)

1309

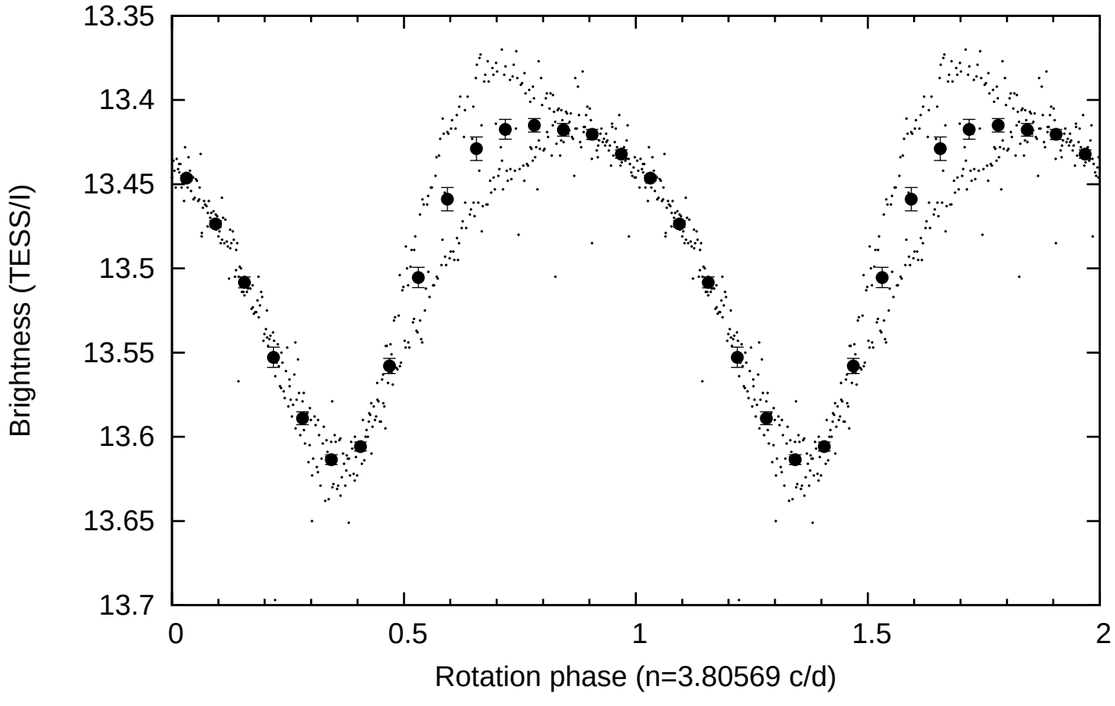

Brightness (TESS/I)
Rotation phase (n=3.4601 c/d)

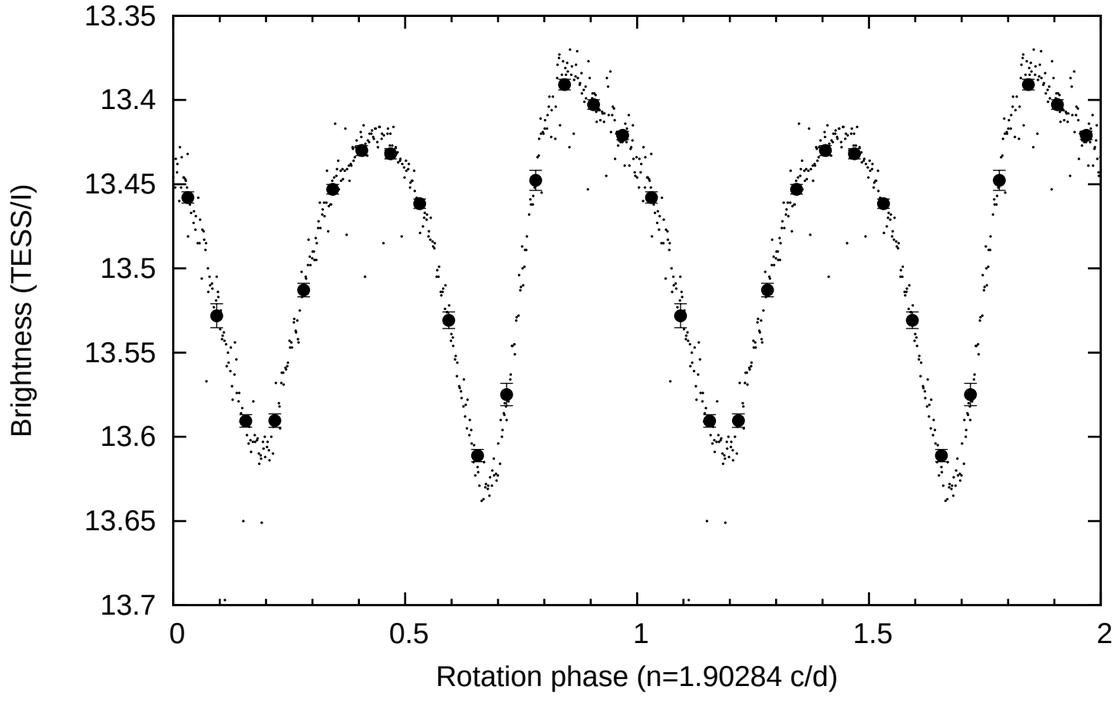

Brightness (TESS/I)
Rotation phase (n=1.73005 c/d)

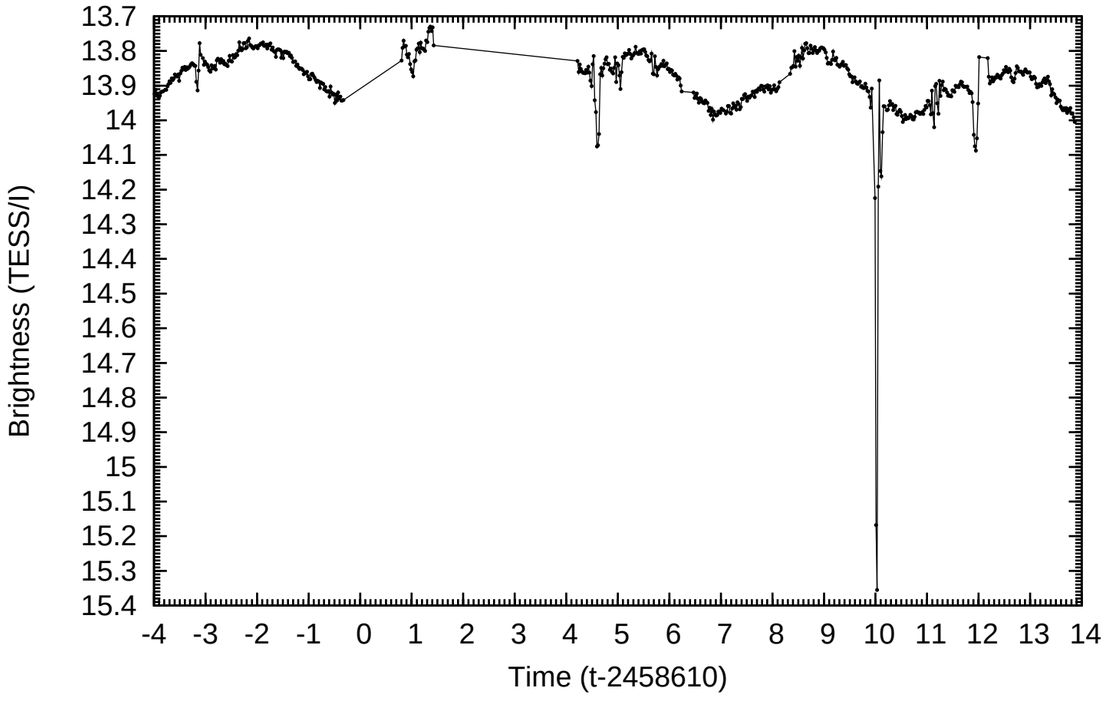

13.3
13.4
13.5
13.6
13.7
Brightness (TESS/I)
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
0
Time (t-2458610)

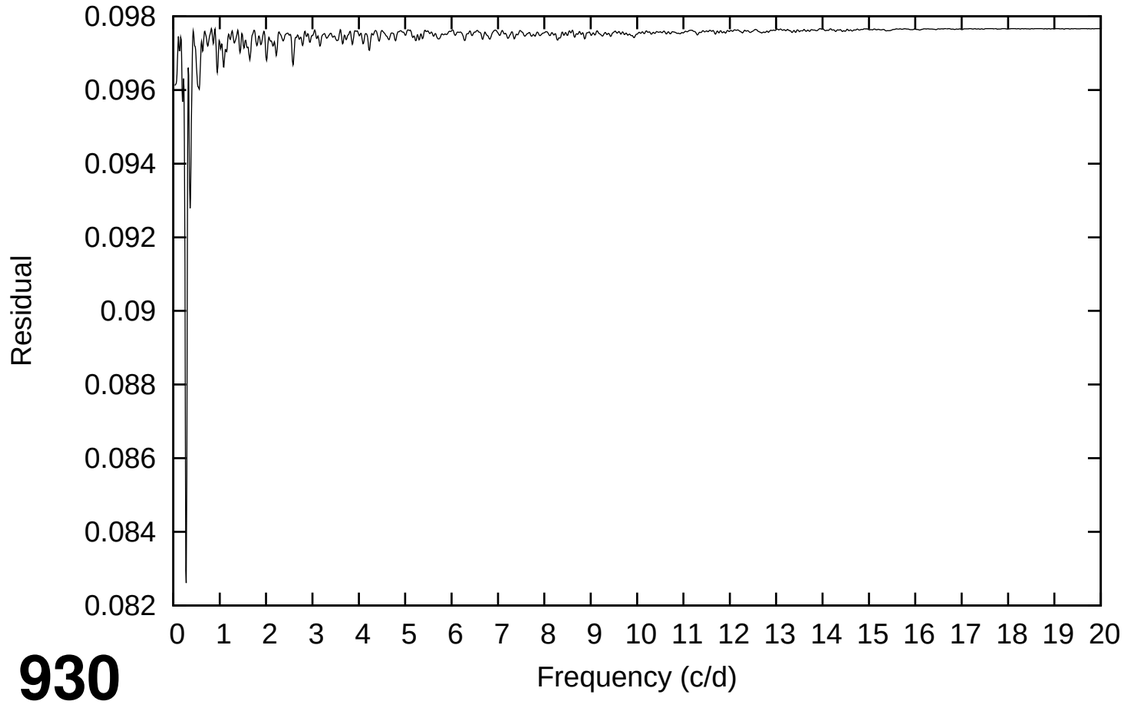

0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

1735

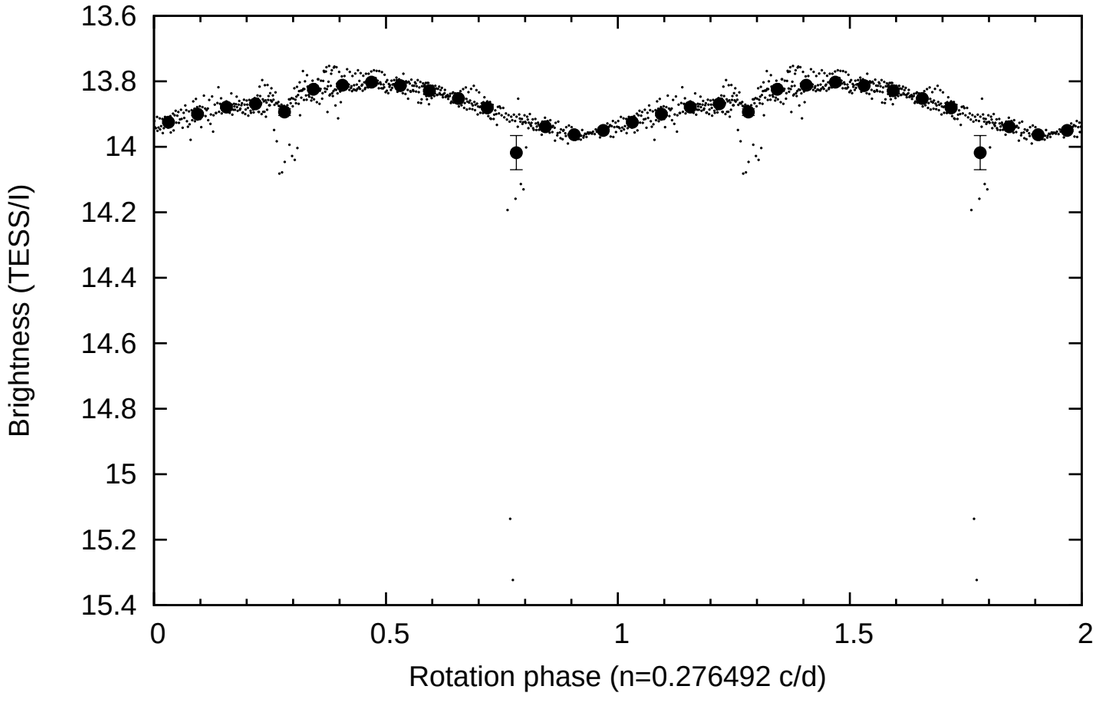

13.35
13.4
13.45
13.5
13.55
13.6
13.65
13.7
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=3.80569 c/d)

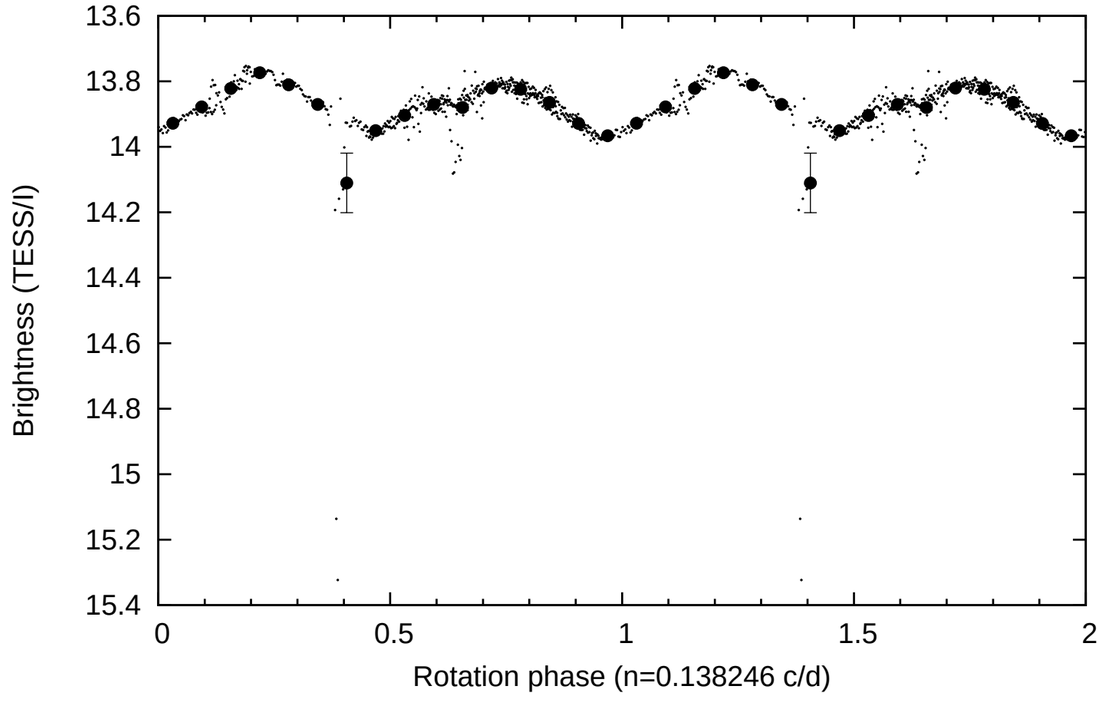

13.35
13.4
13.45
13.5
13.55
13.6
13.65
13.7
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=1.90284 c/d)

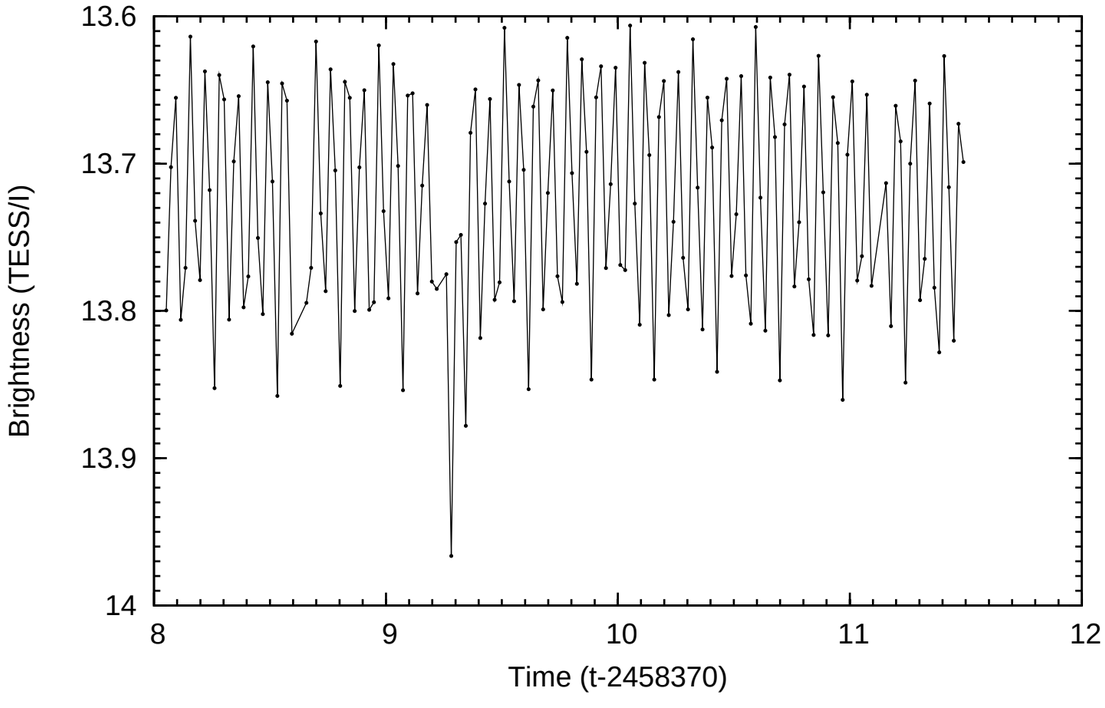

Brightness (TESS/I)
Time (t-2458610)


Residual
Frequency (c/d)

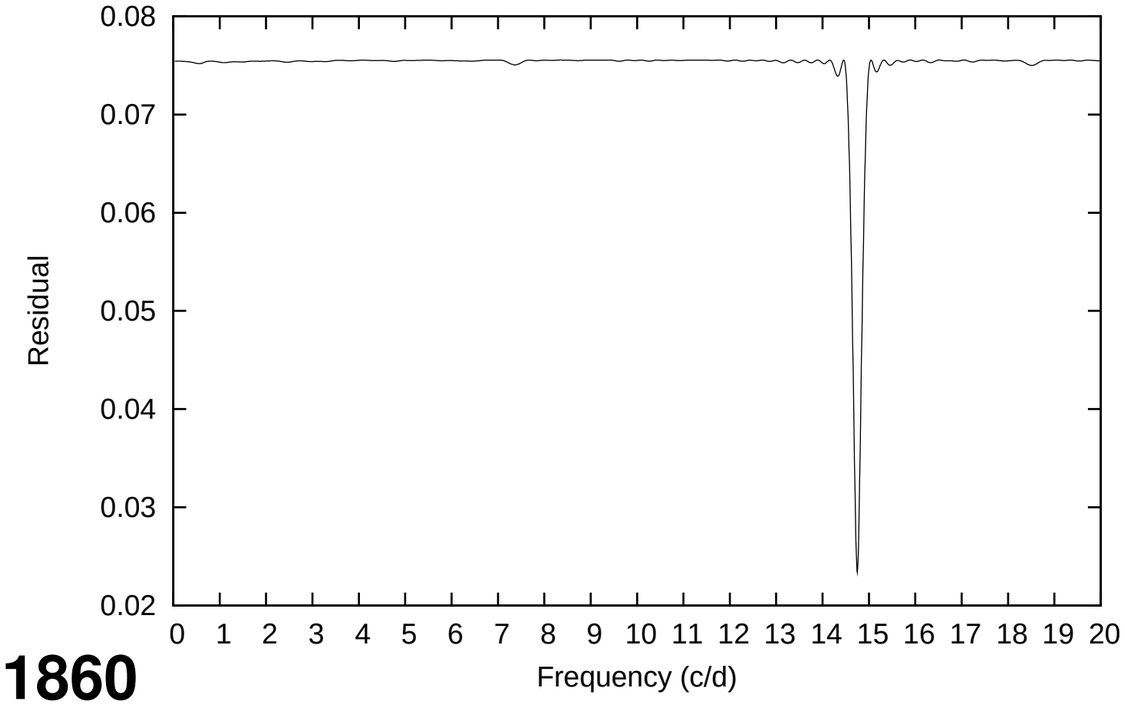
930

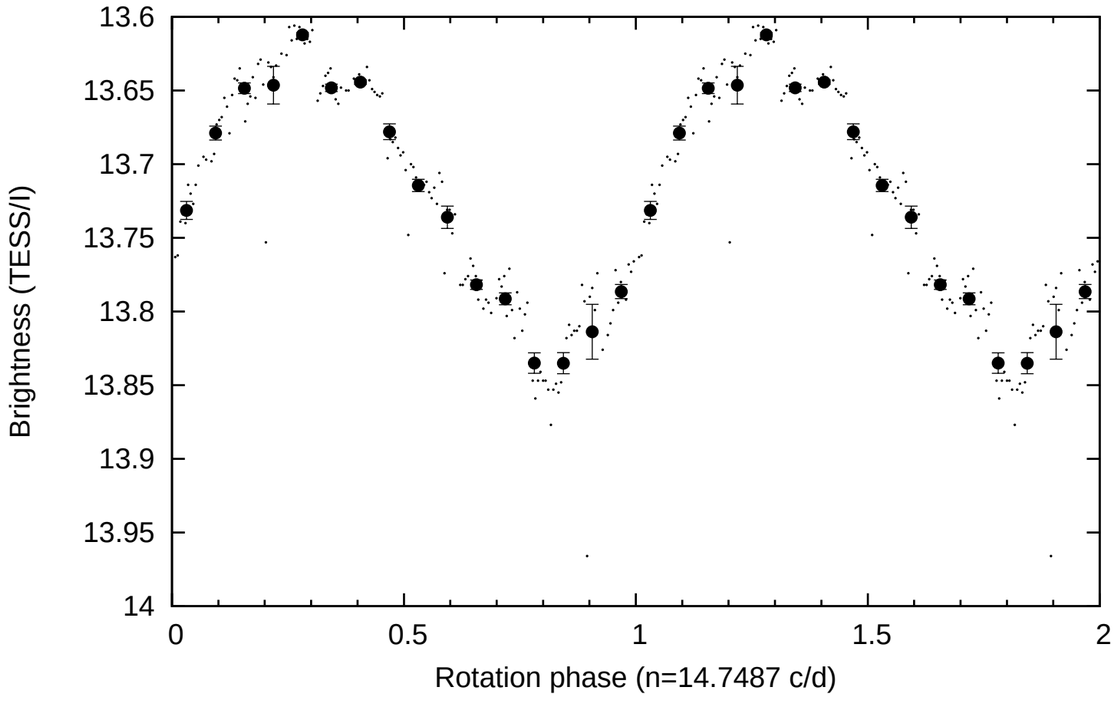

Brightness (TESS/I)
Rotation phase (n=0.276492 c/d)

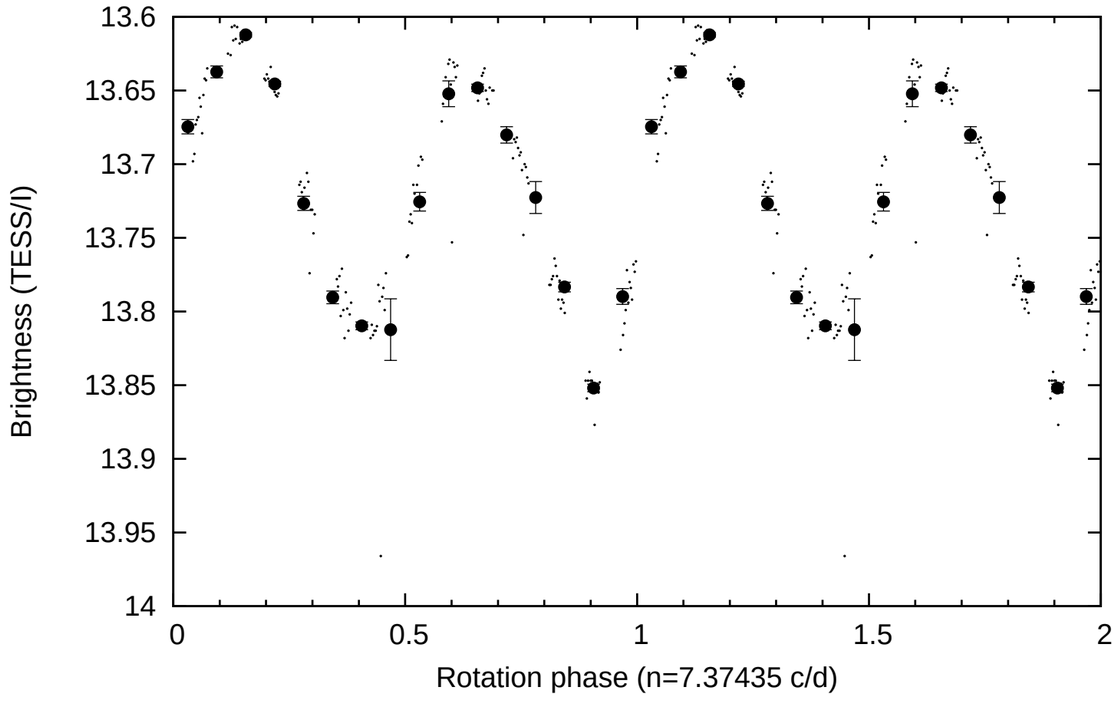

Brightness (TESS/I)
Rotation phase (n=0.138246 c/d)

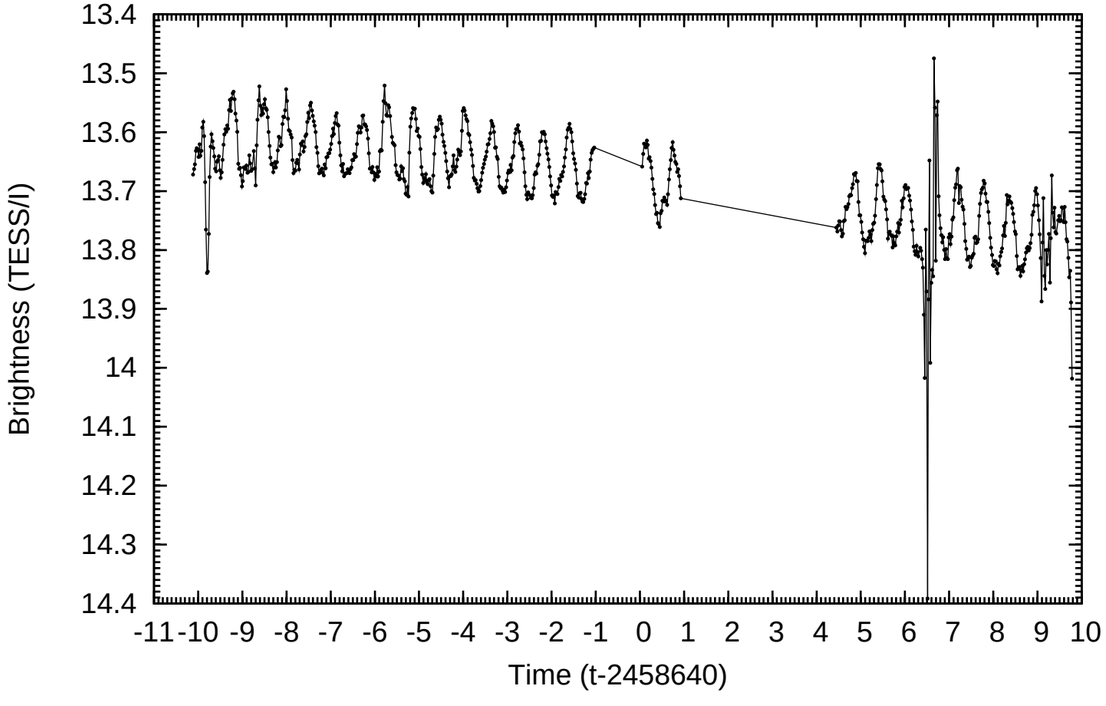

13.6
13.7
13.8
13.9
14
Brightness (TESS/I)
8
9
10
11
12
Time (t-2458370)

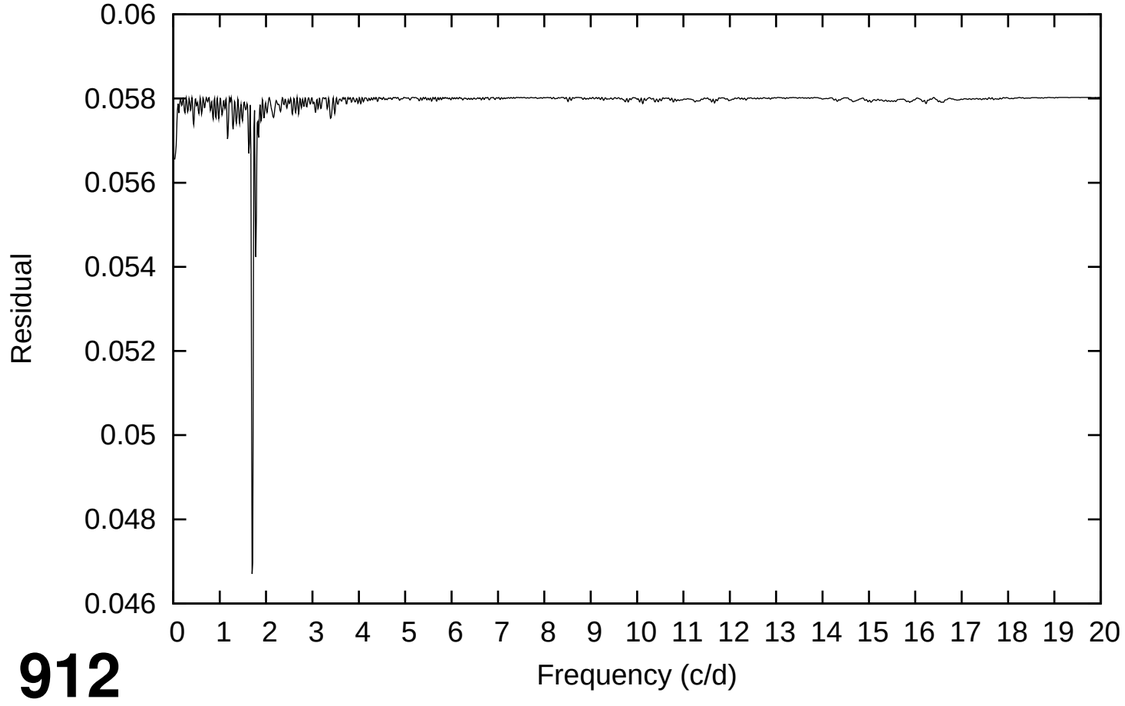
1860


0.08
0.07
0.06
0.05
0.04
0.03
0.02
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

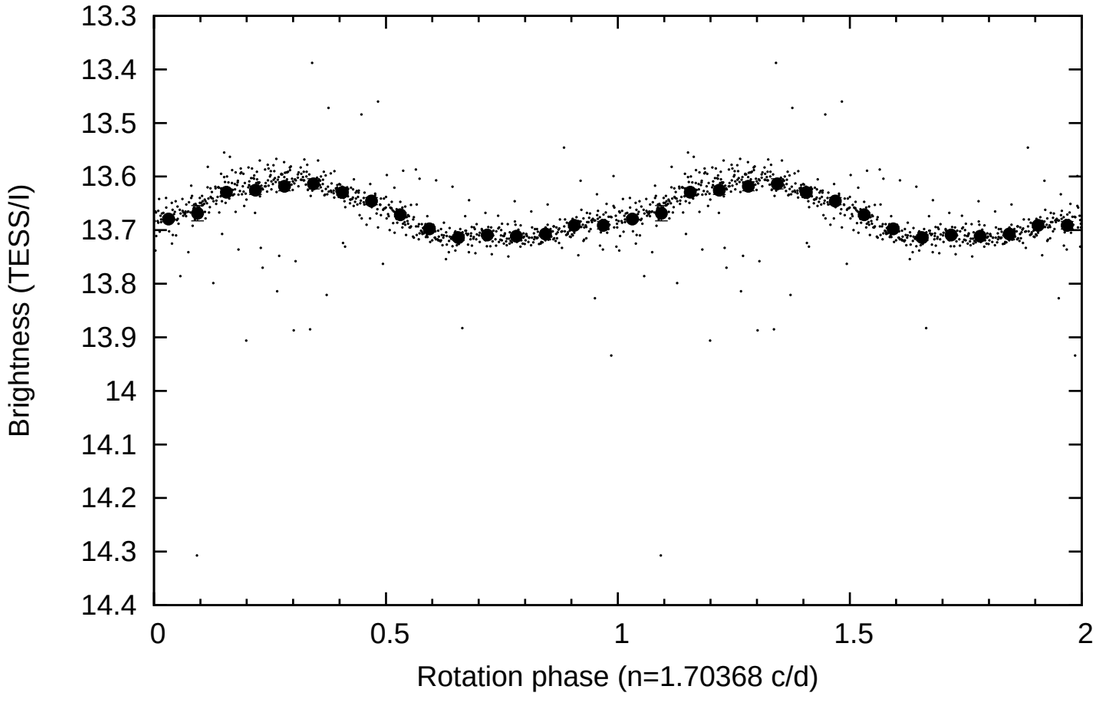

13.6
13.65
13.7
13.75
13.8
13.85
13.9
13.95
14
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=14.7487 c/d)

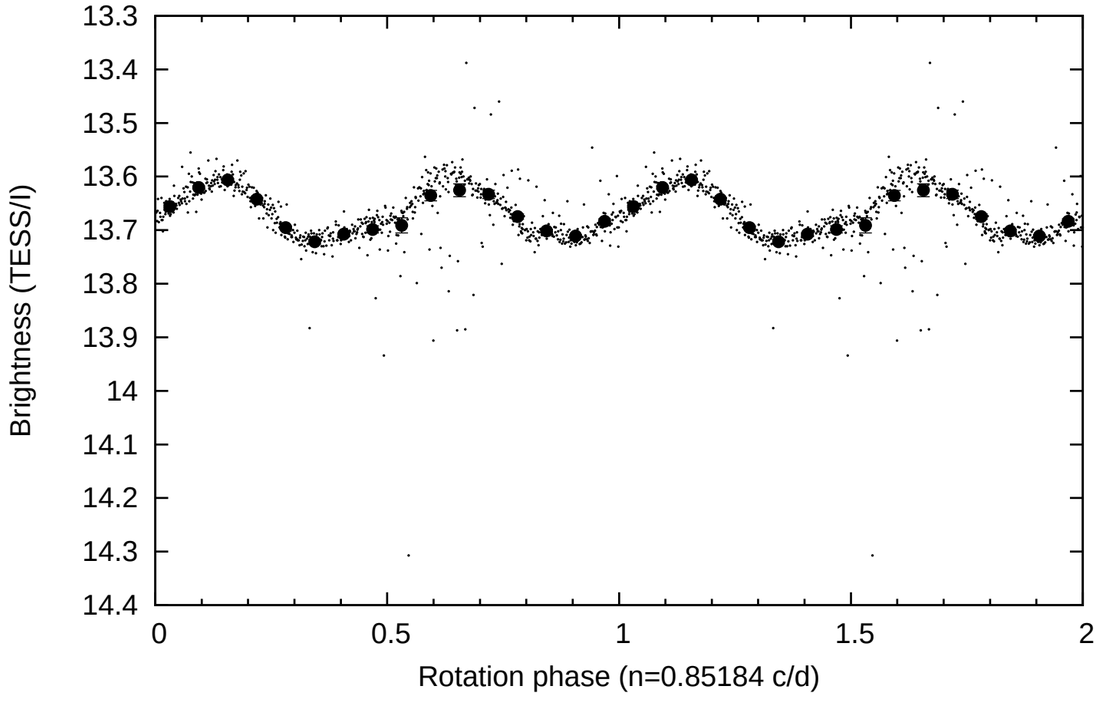

13.6
13.65
13.7
13.75
13.8
13.85
13.9
13.95
14
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=7.37435 c/d)

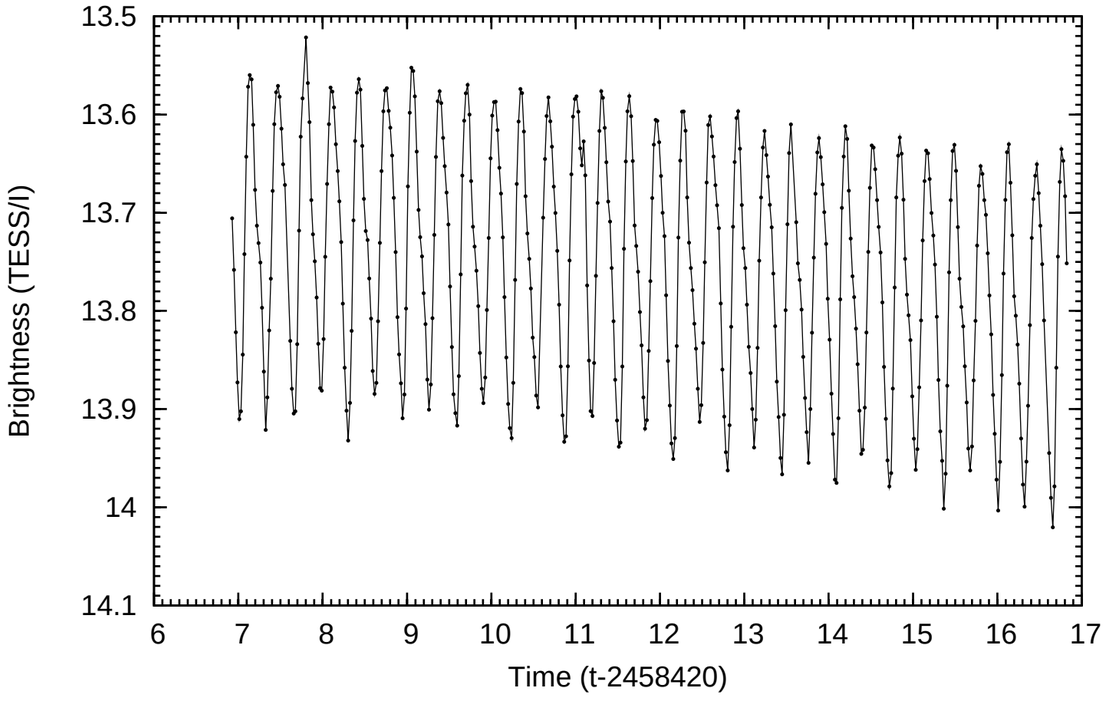

Brightness (TESS/I)
Time (t-2458640)


Residual
Frequency (c/d)

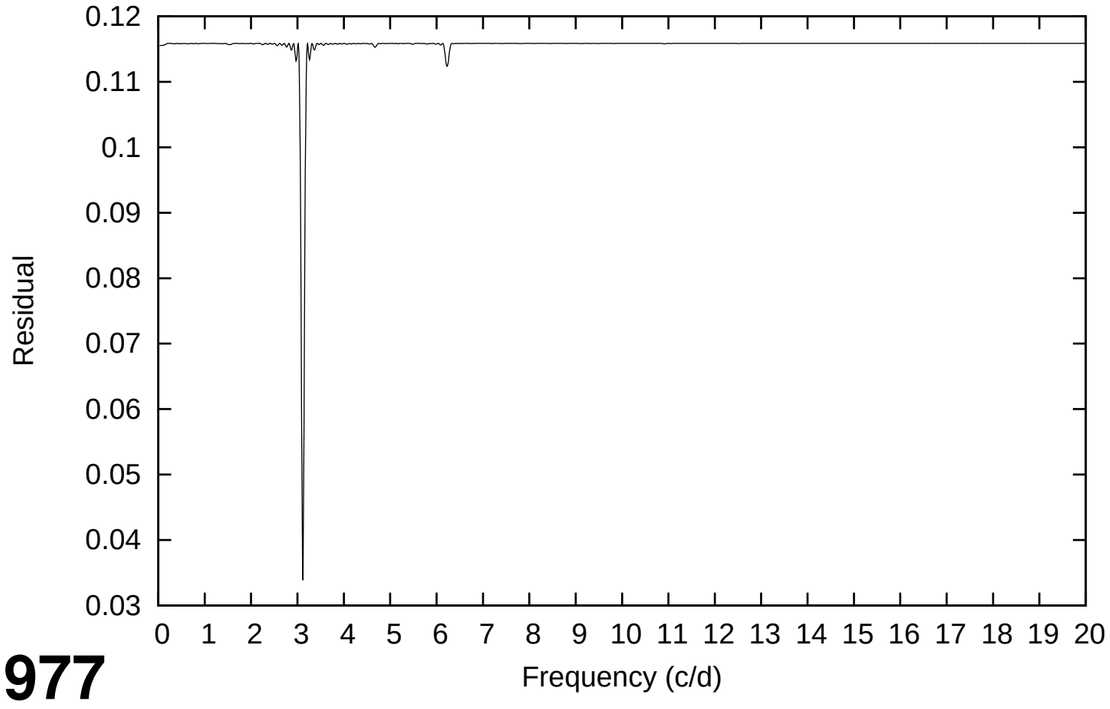
912

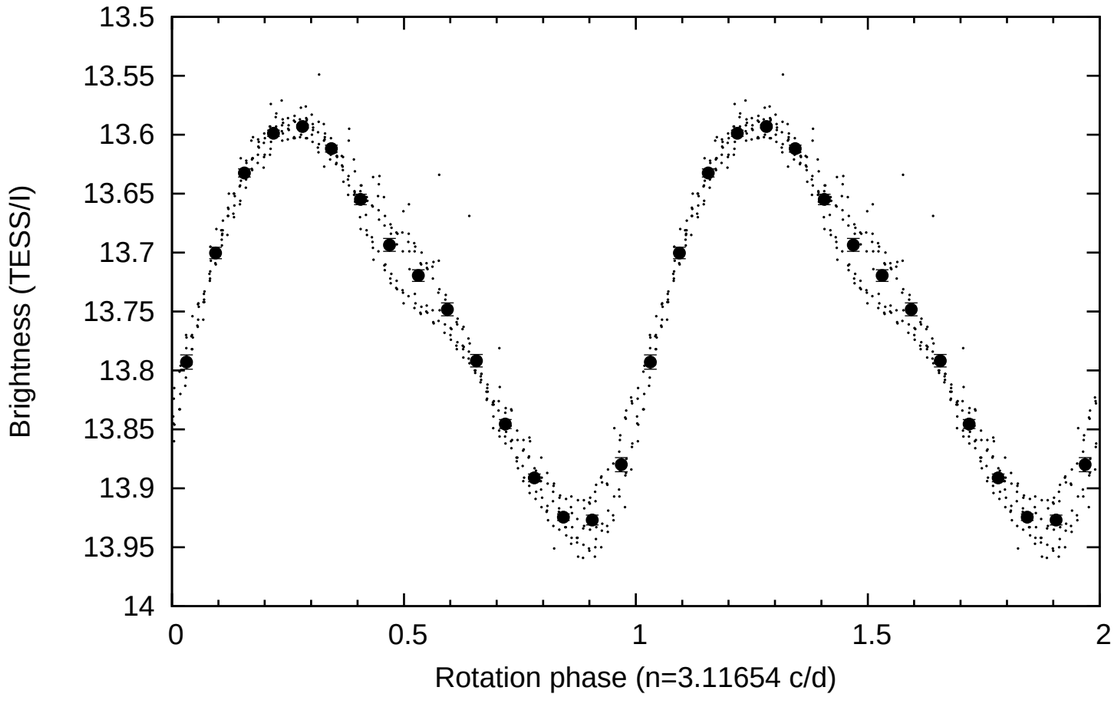

Brightness (TESS/I)
Rotation phase (n=1.70368 c/d)

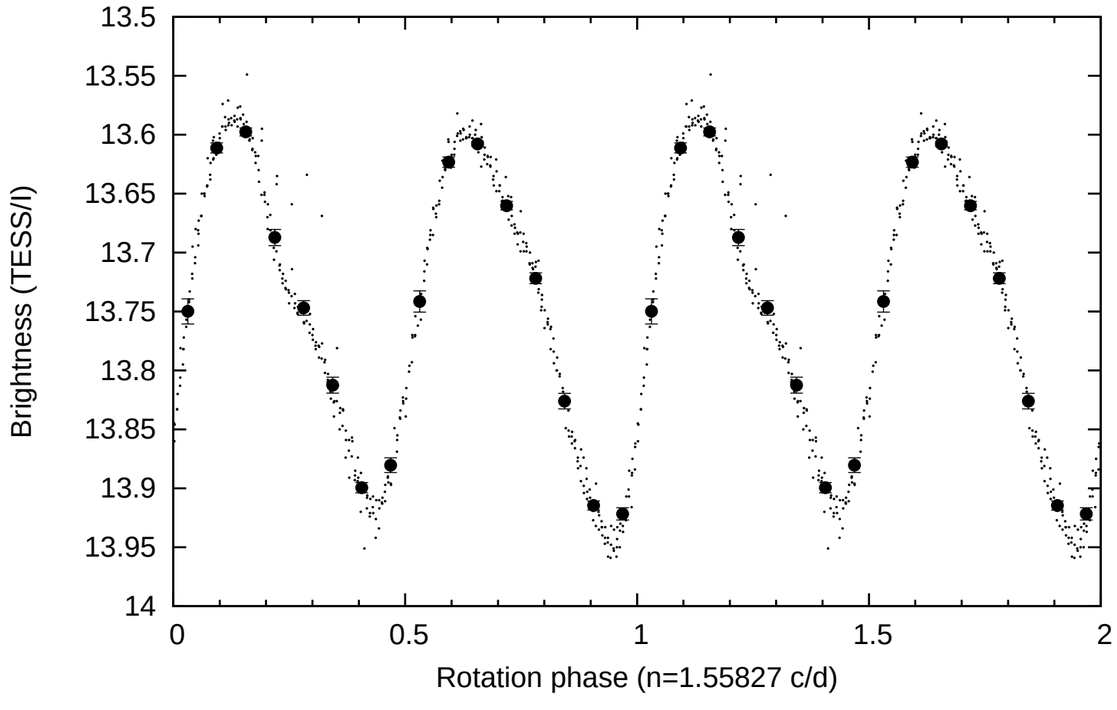

Brightness (TESS/I)
Rotation phase (n=0.85184 c/d)

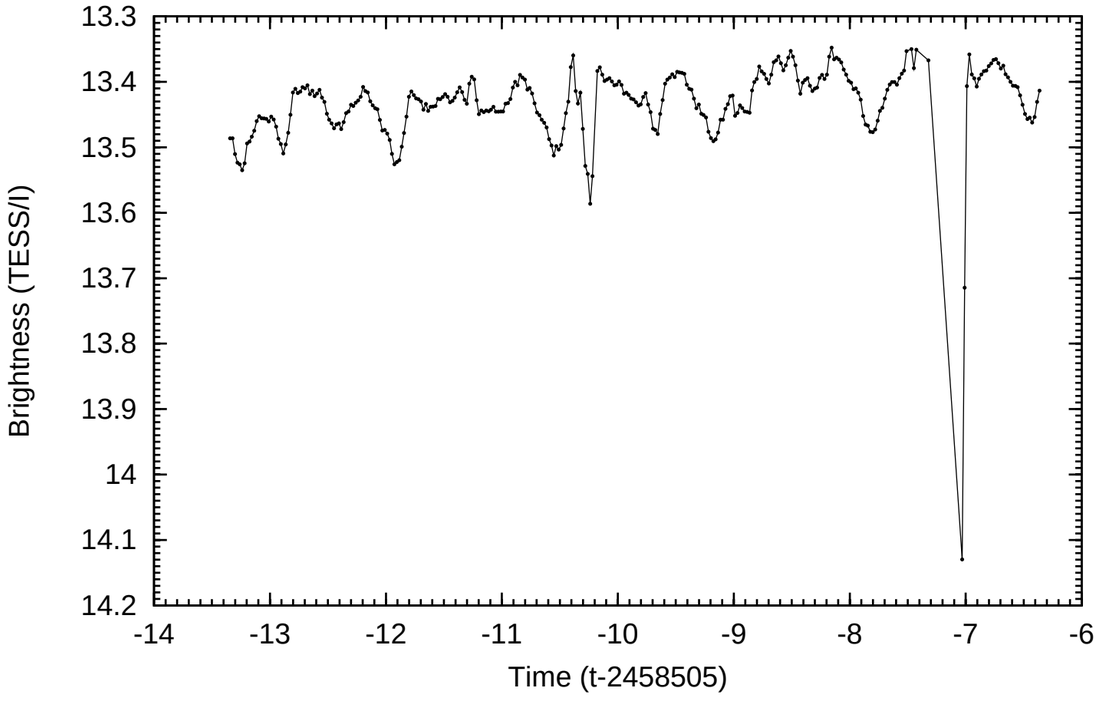

Brightness (TESS/I)
Time (t-2458420)

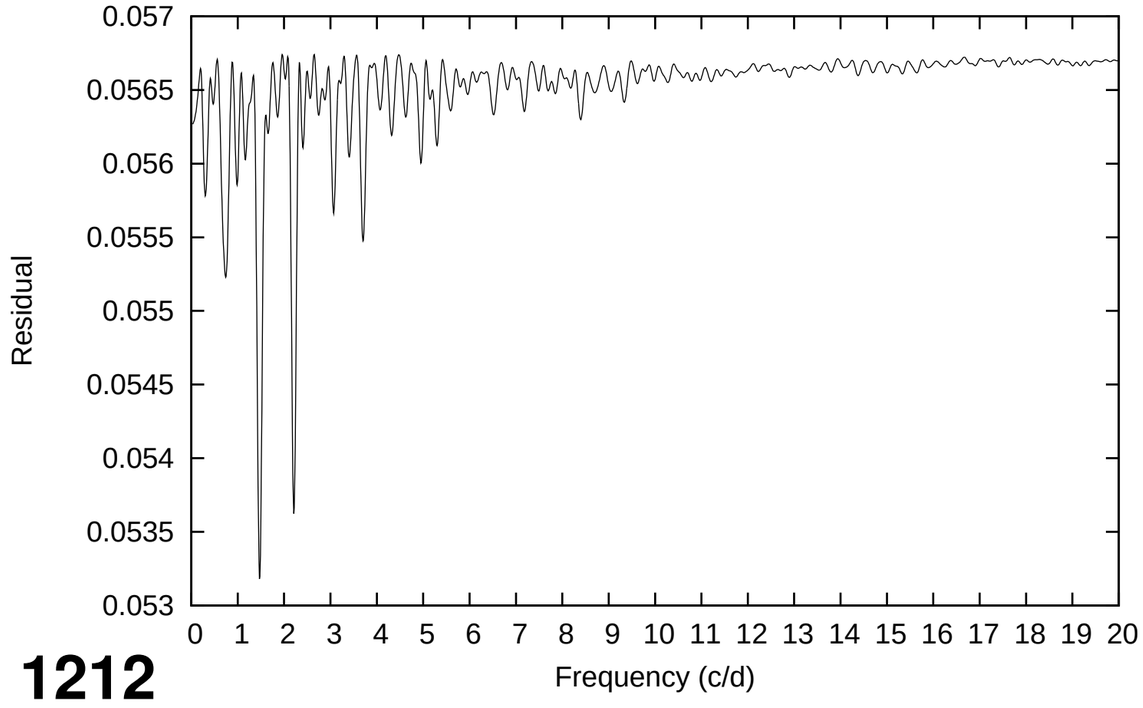
977


Residual
Frequency (c/d)

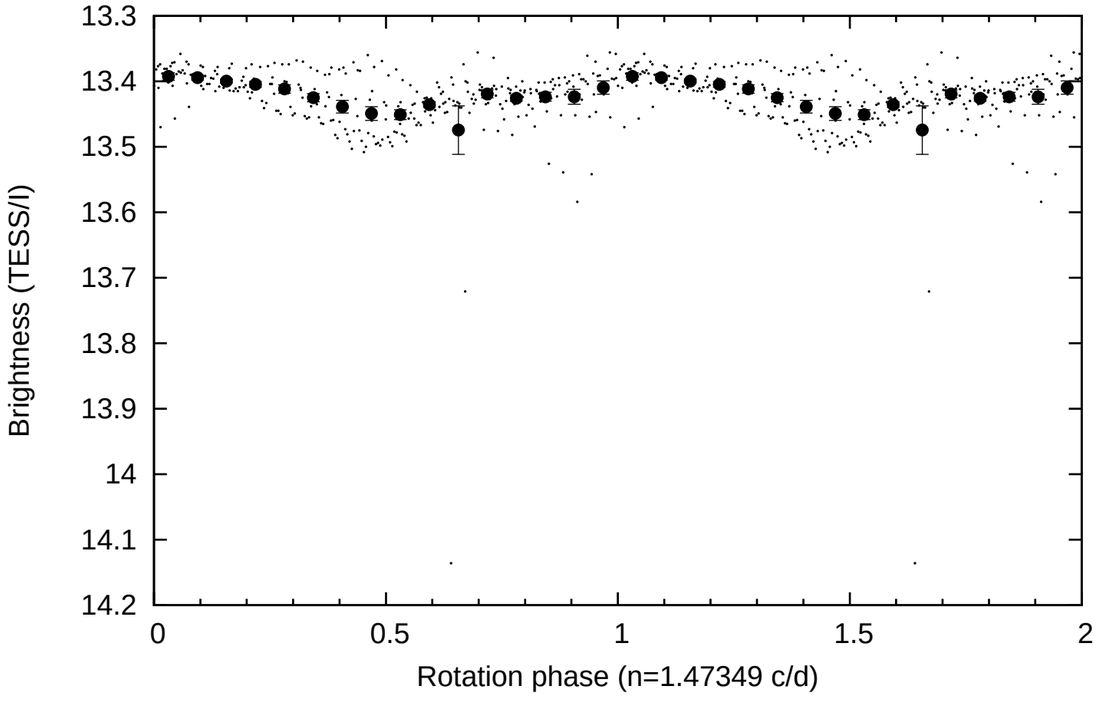

Brightness (TESS/I)
Rotation phase (n=3.11654 c/d)

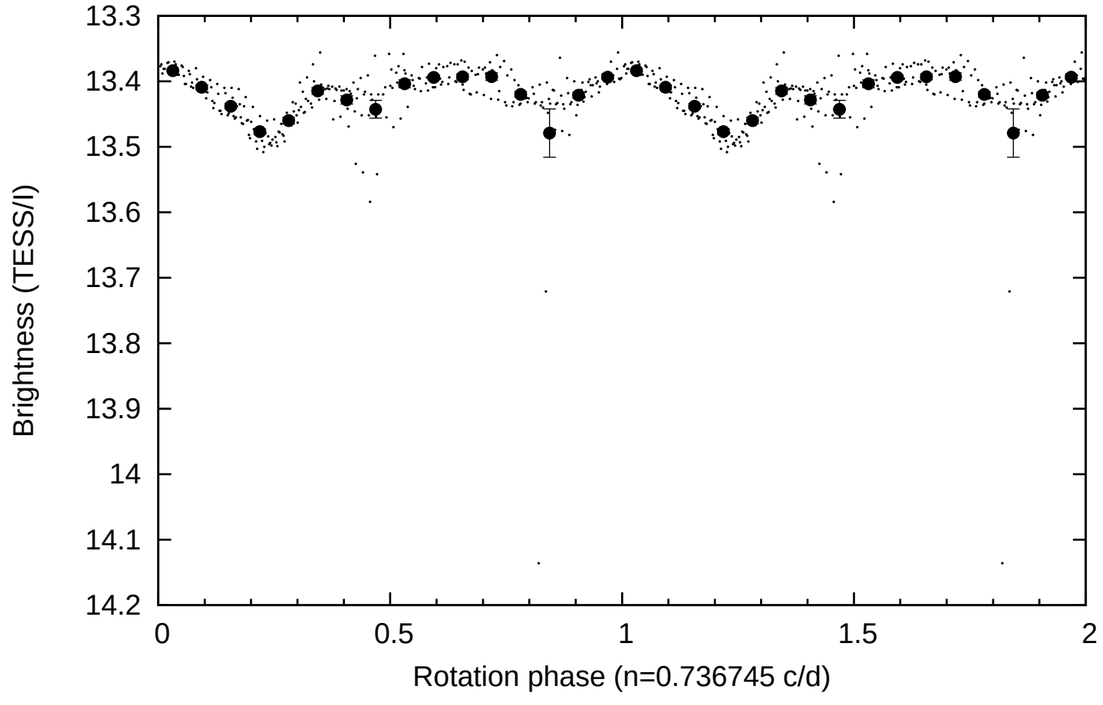

Brightness (TESS/I)
Rotation phase (n=1.55827 c/d)

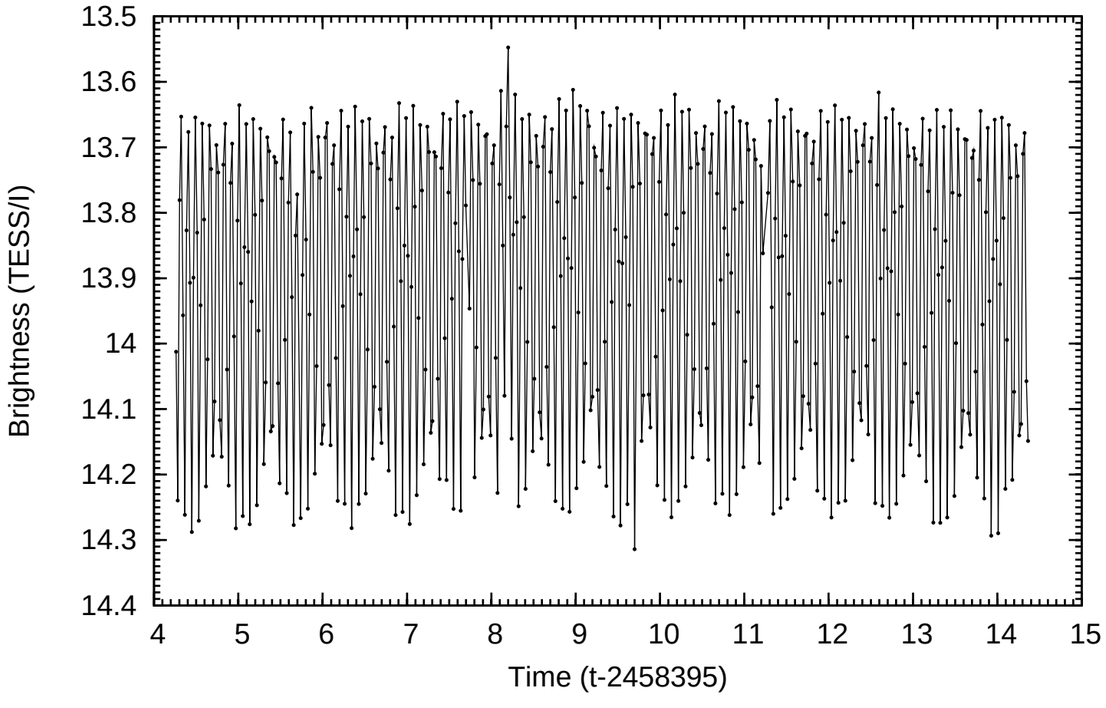

Brightness (TESS/I)
Time (t-2458505)

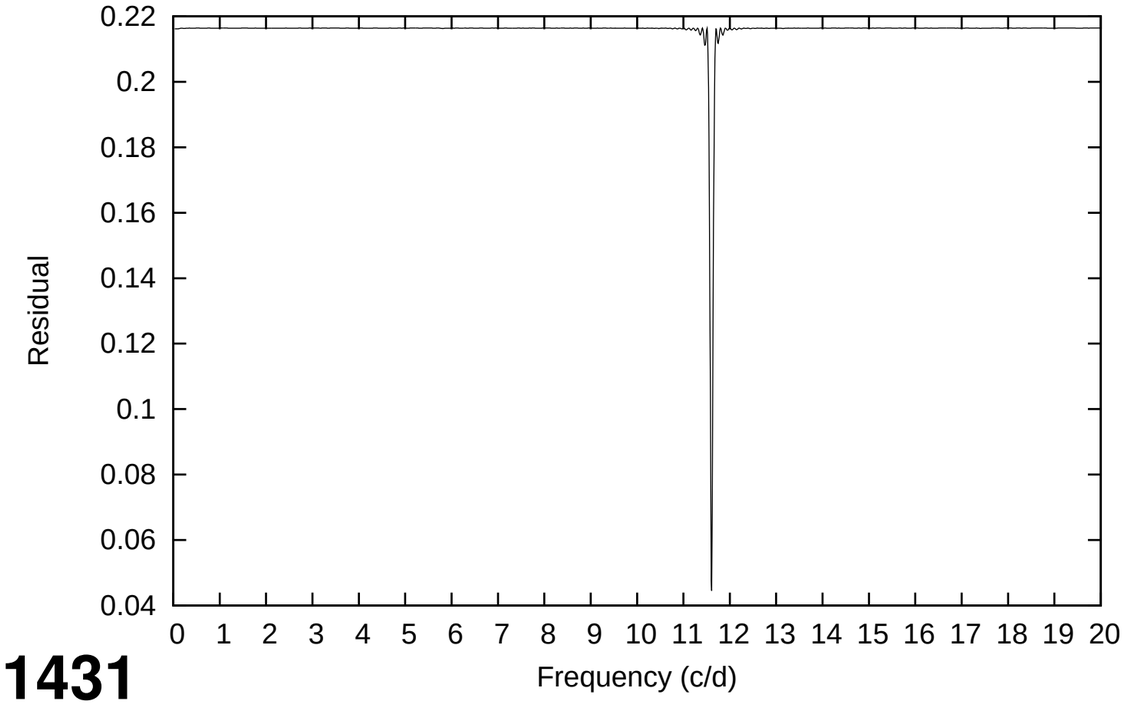

Residual
Frequency (c/d)

1212

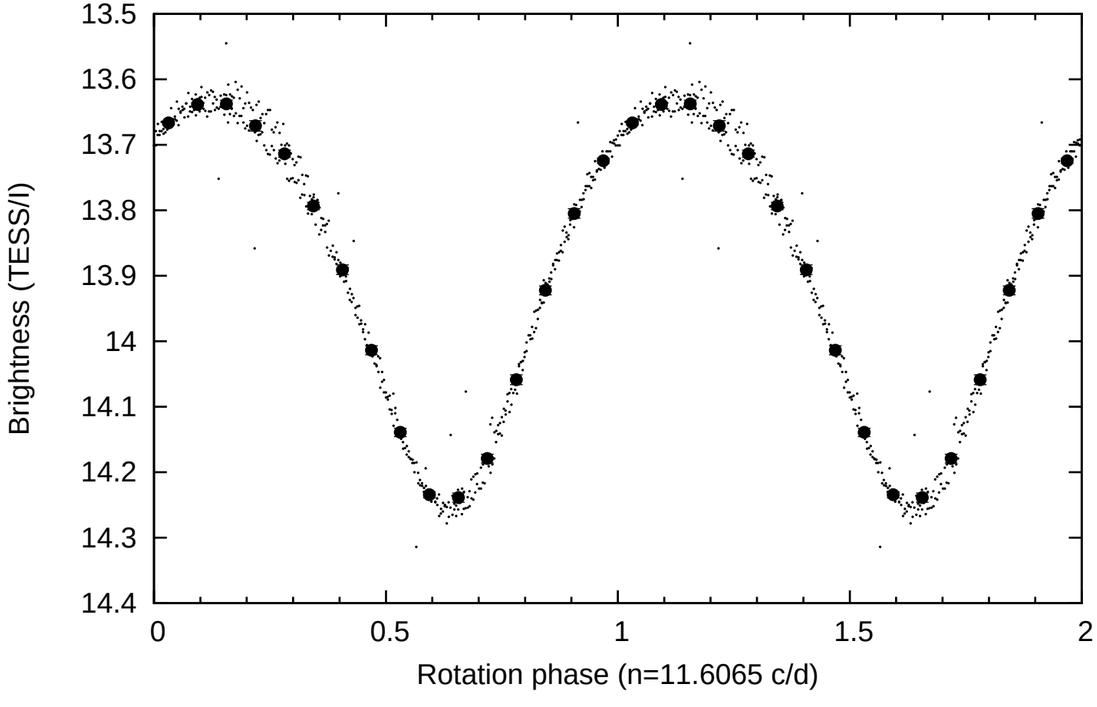

Brightness (TESS/I)
Rotation phase (n=1.47349 c/d)

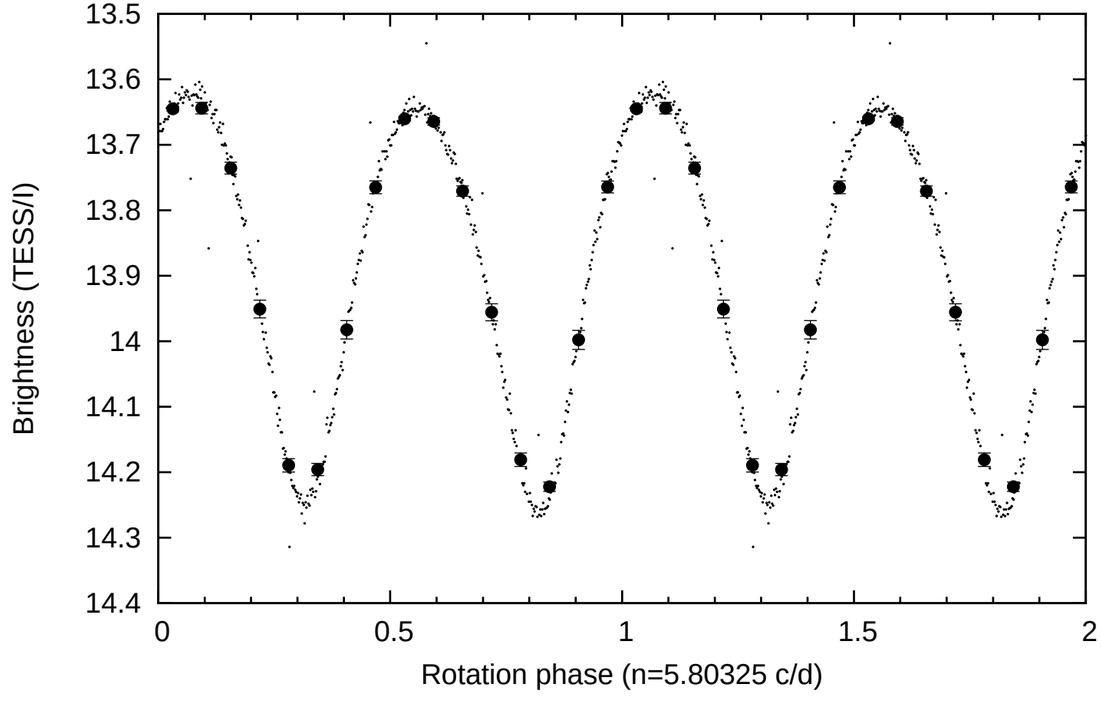

Brightness (TESS/I)
Rotation phase (n=0.736745 c/d)

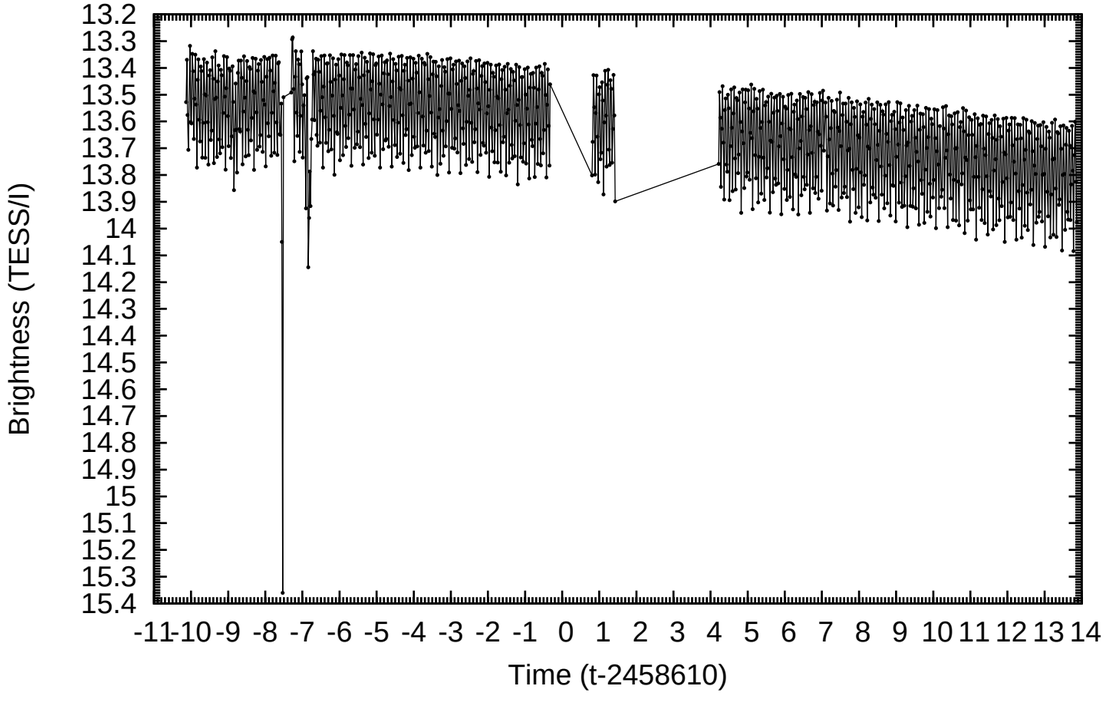

Brightness (TESS/I)
Time (t-2458395)

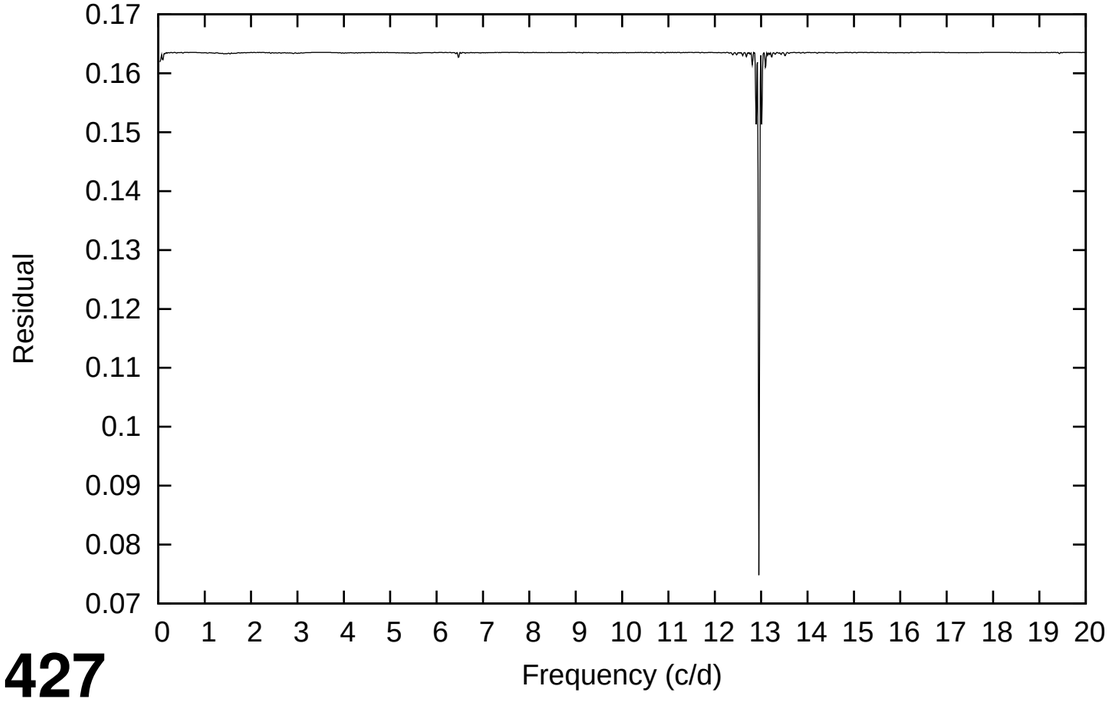

Residual
Frequency (c/d)

1431

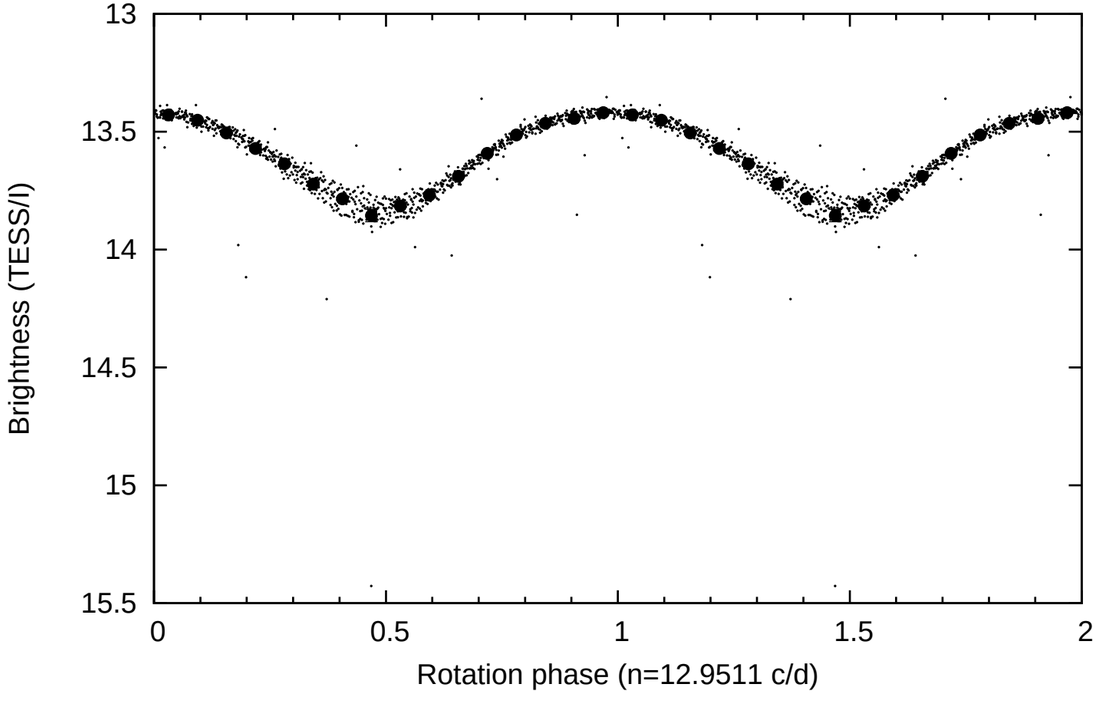

Brightness (TESS/I)
Rotation phase (n=11.6065 c/d)

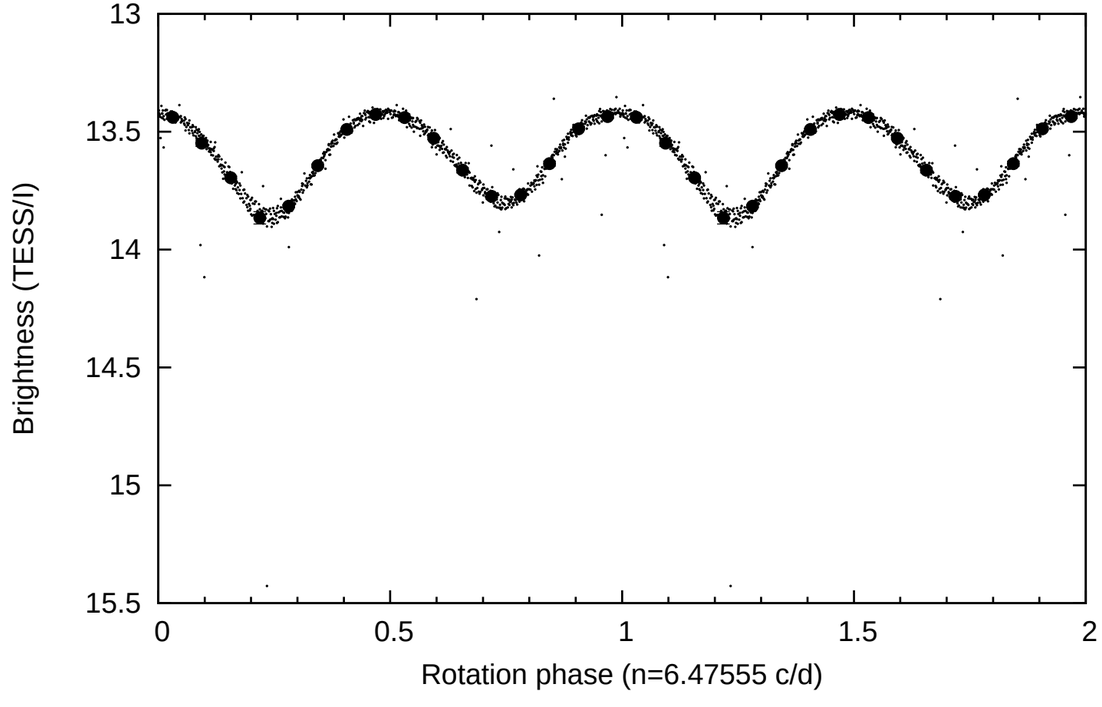

Brightness (TESS/I)
Rotation phase (n=5.80325 c/d)

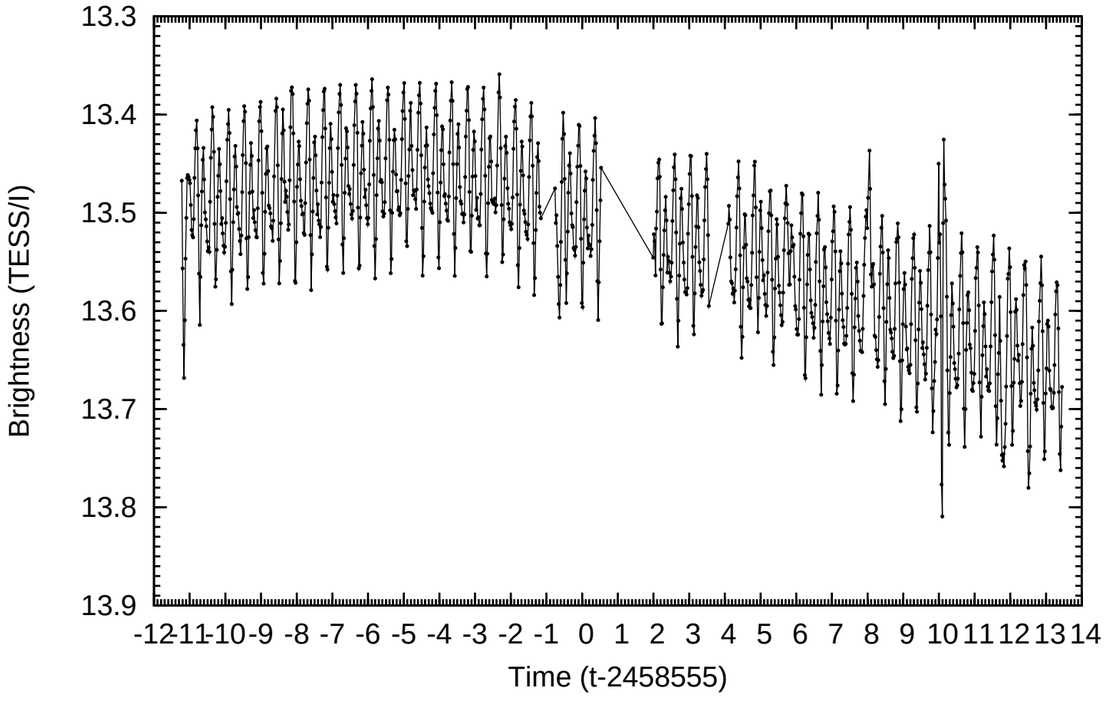

Brightness (TESS/I)
Time (t-2458610)

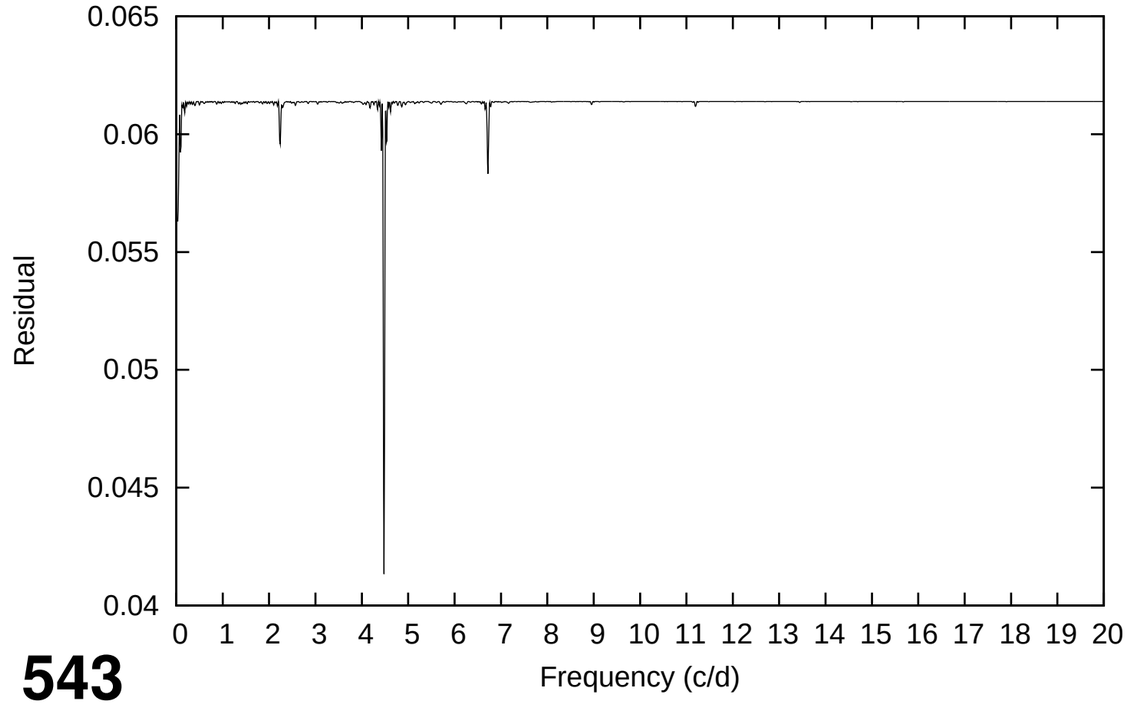

Residual
Frequency (c/d)

427

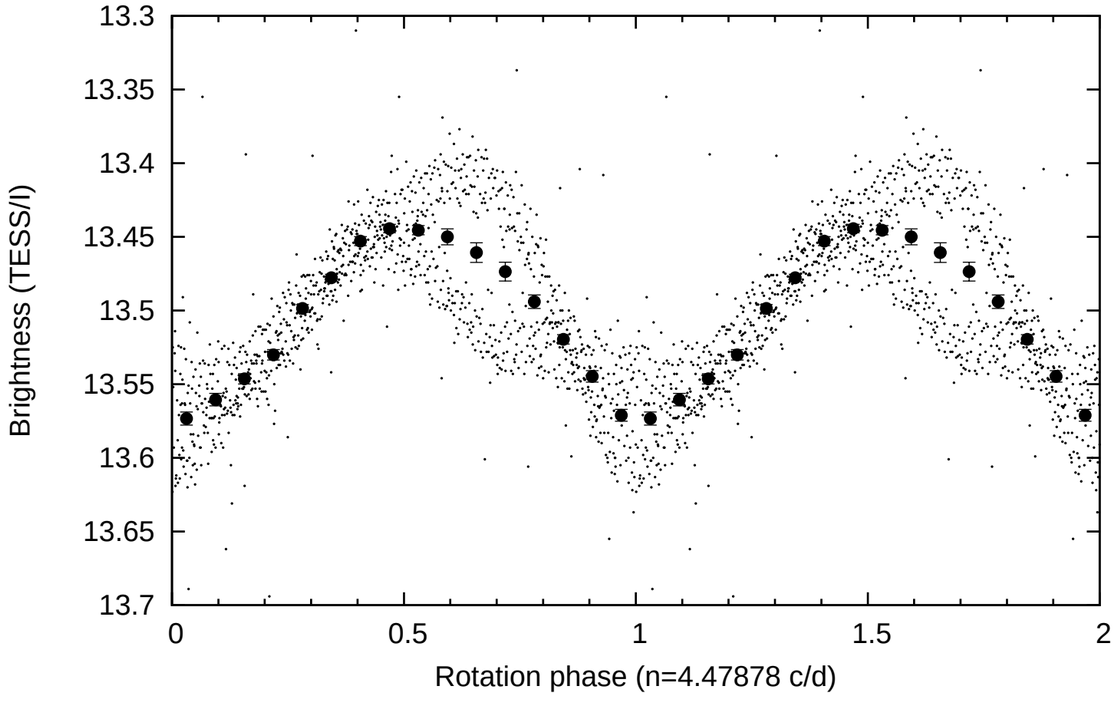

Brightness (TESS/I)
Rotation phase (n=12.9511 c/d)

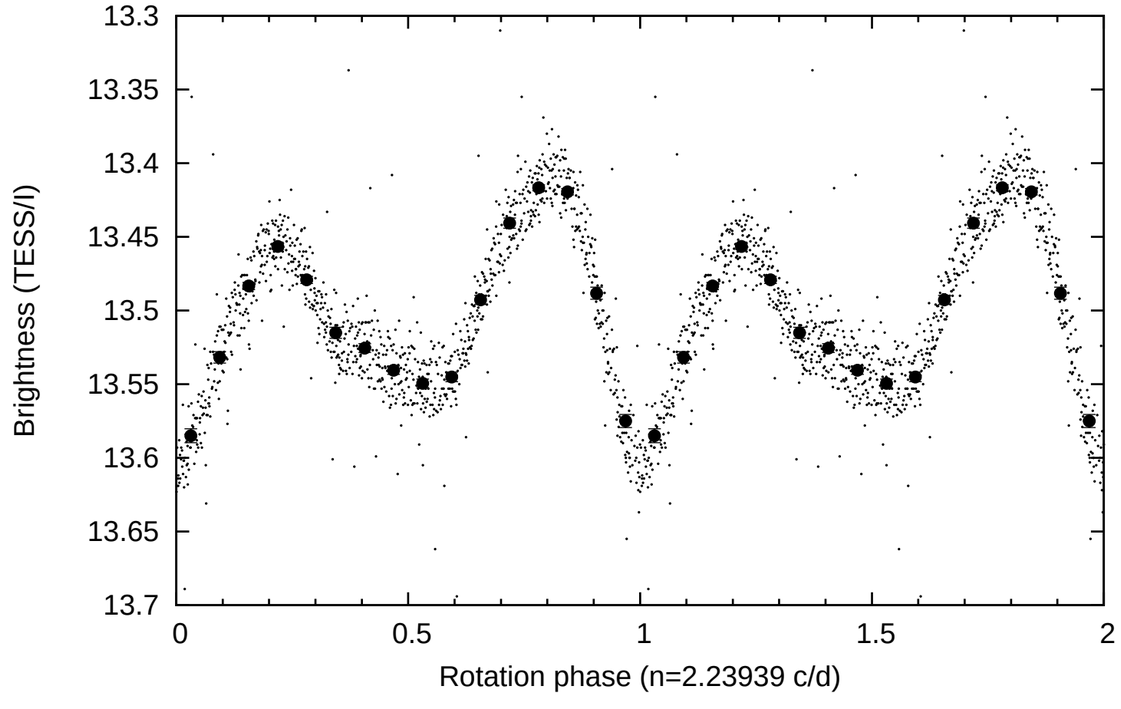

Brightness (TESS/I)
Rotation phase (n=6.47555 c/d)

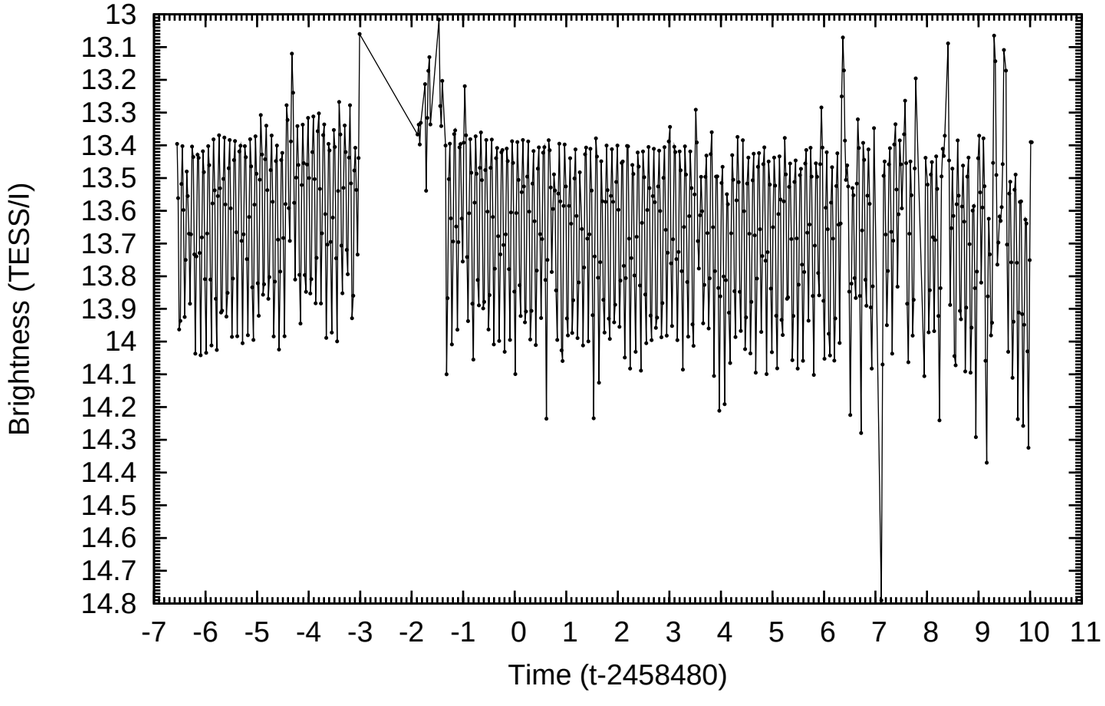

Brightness (TESS/I)
Time (t-2458555)


Residual
Frequency (c/d)

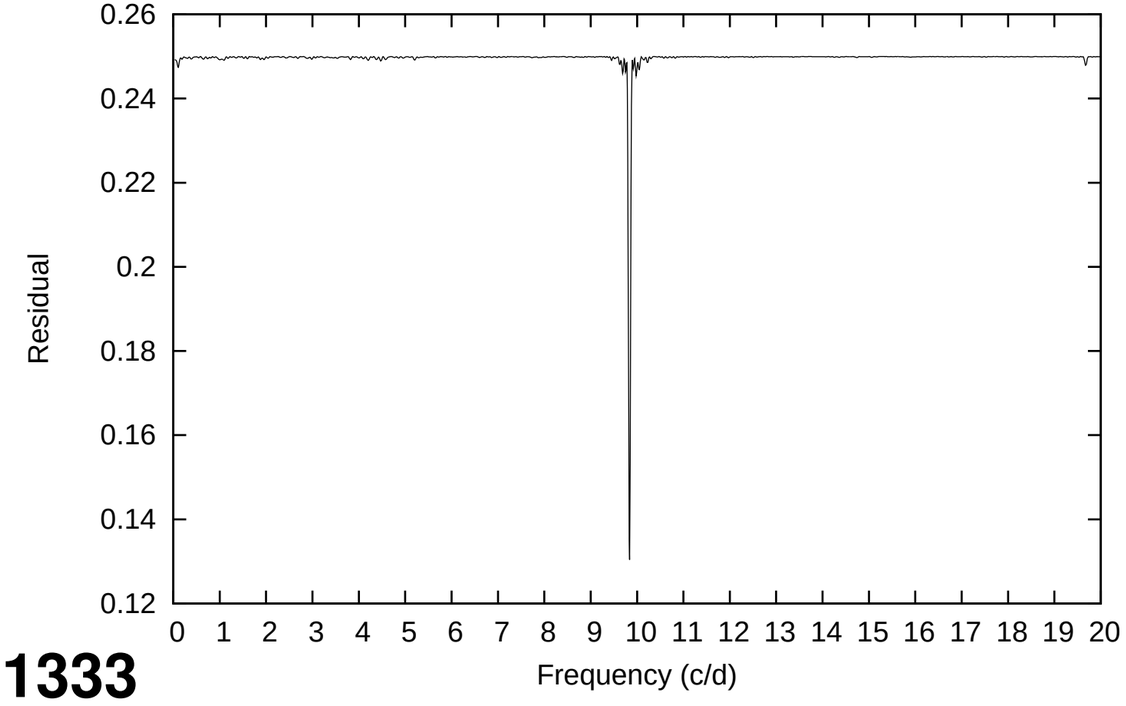
543

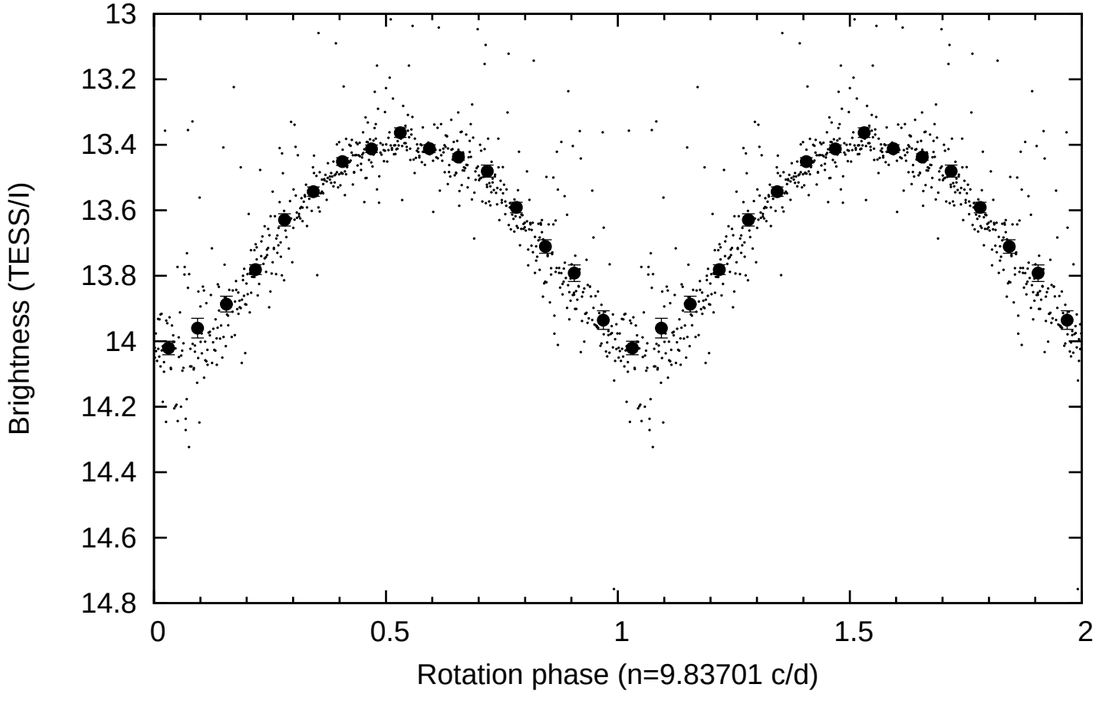

Brightness (TESS/I)
Rotation phase (n=4.47878 c/d)

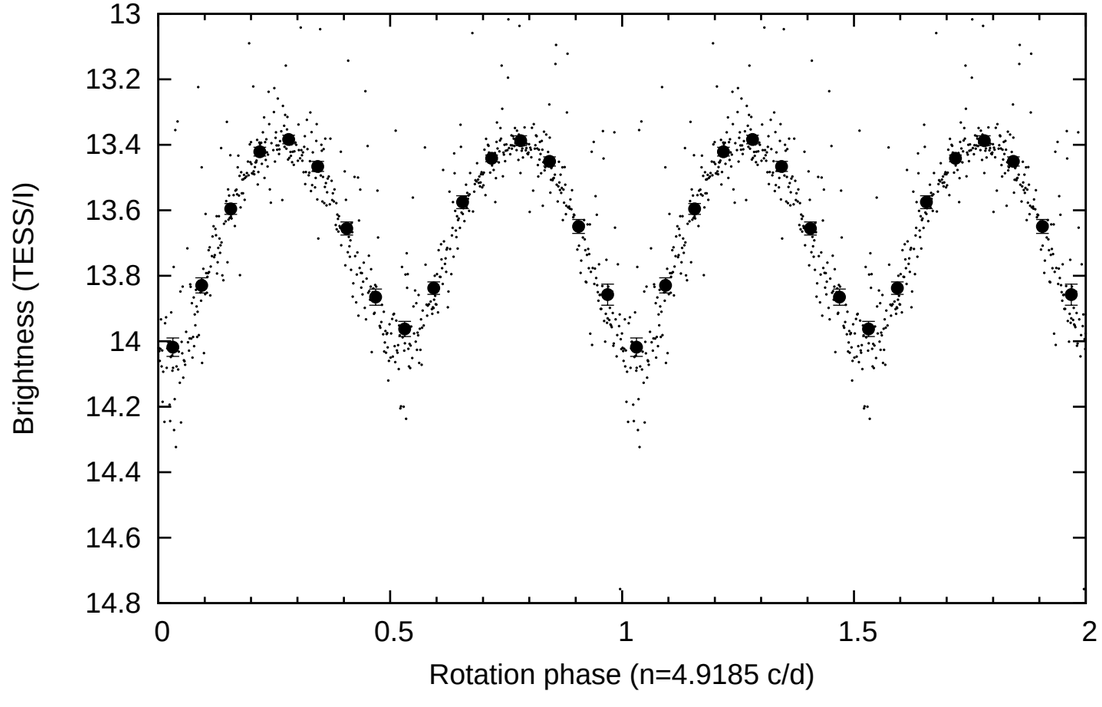

Brightness (TESS/I)
Rotation phase (n=2.23939 c/d)

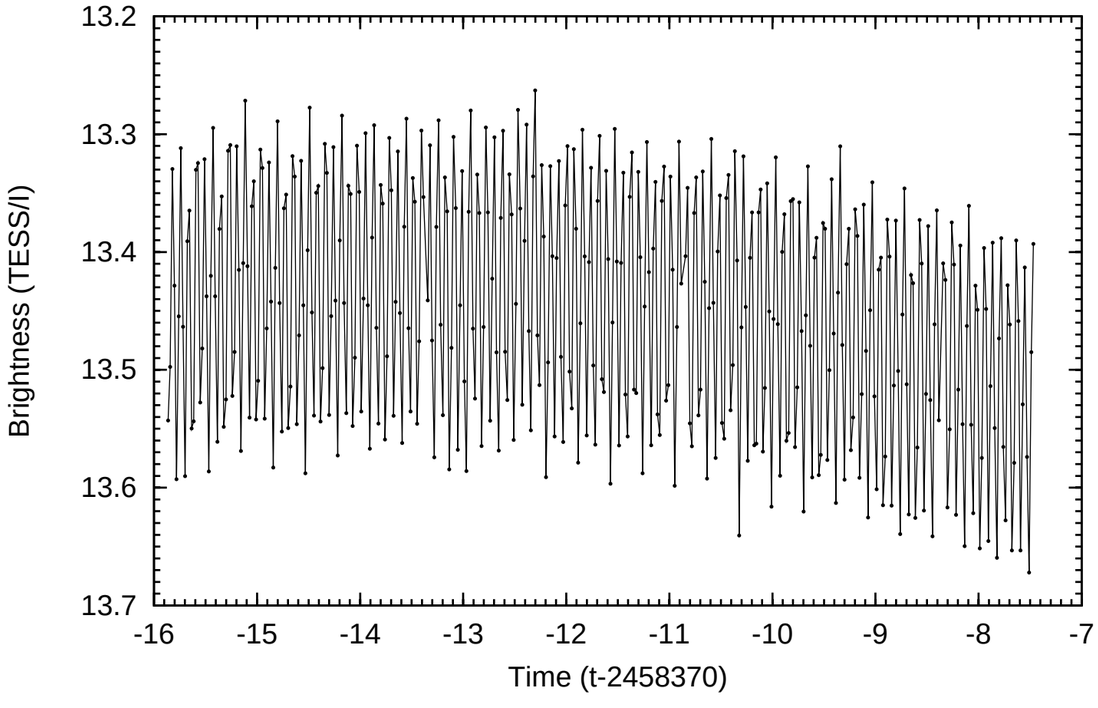

Brightness (TESS/I)
Time (t-2458480)

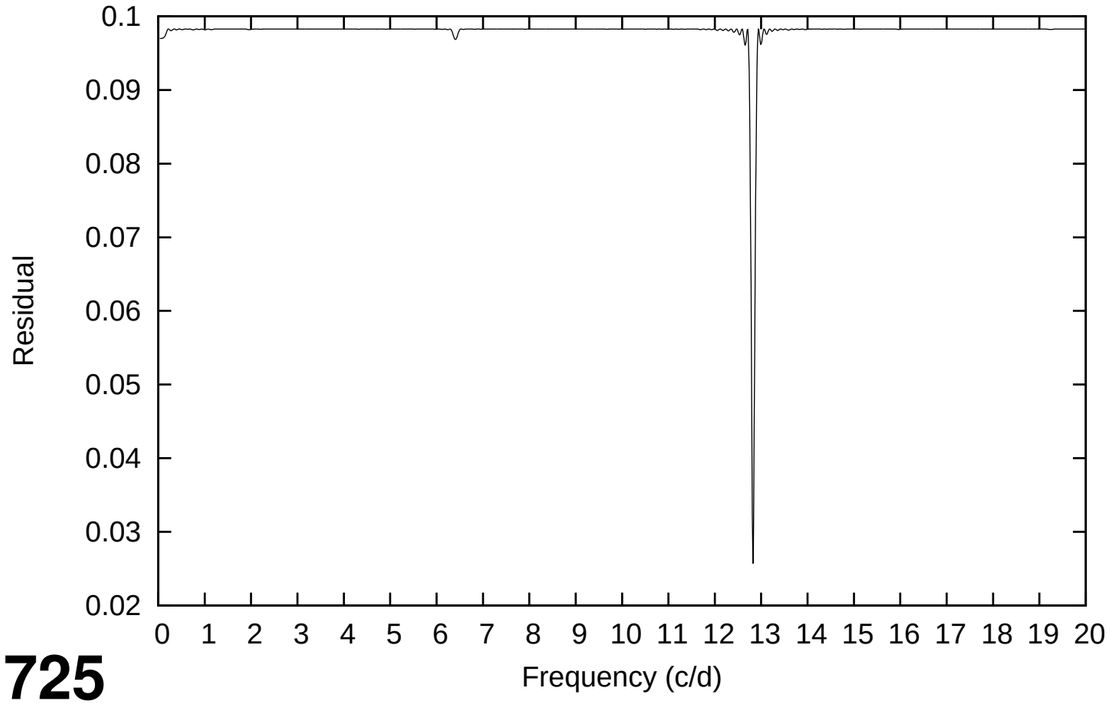
1333

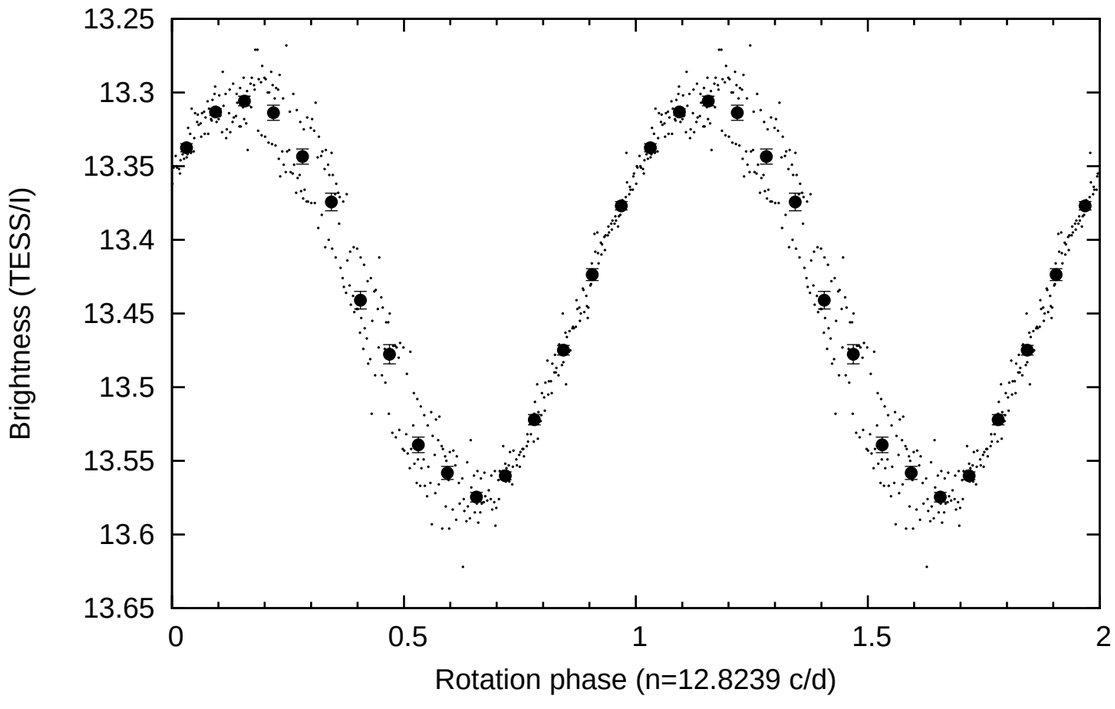

Residual
Frequency (c/d)

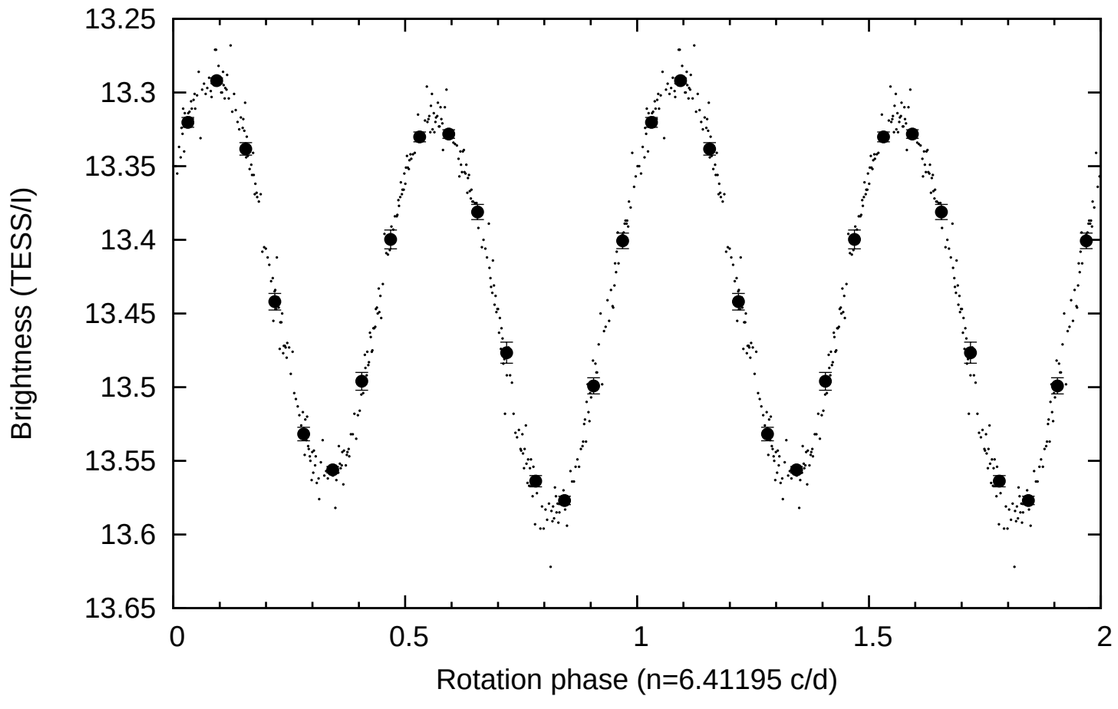

Brightness (TESS/I)
Rotation phase (n=9.83701 c/d)

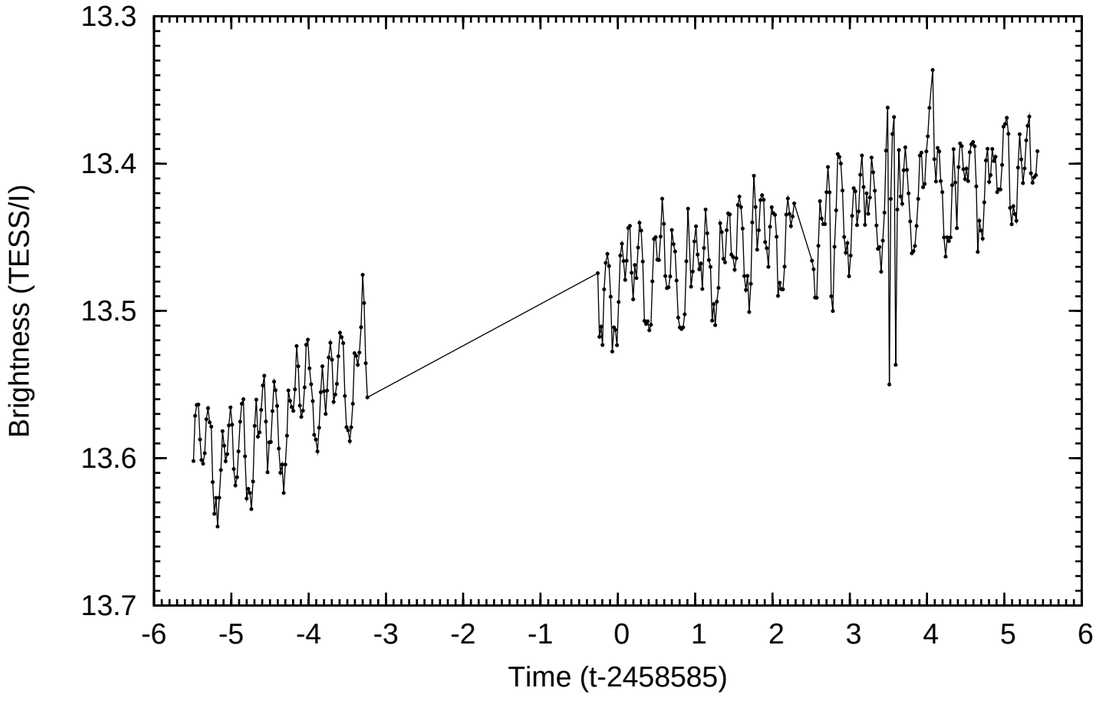

Brightness (TESS/I)
Rotation phase (n=4.9185 c/d)

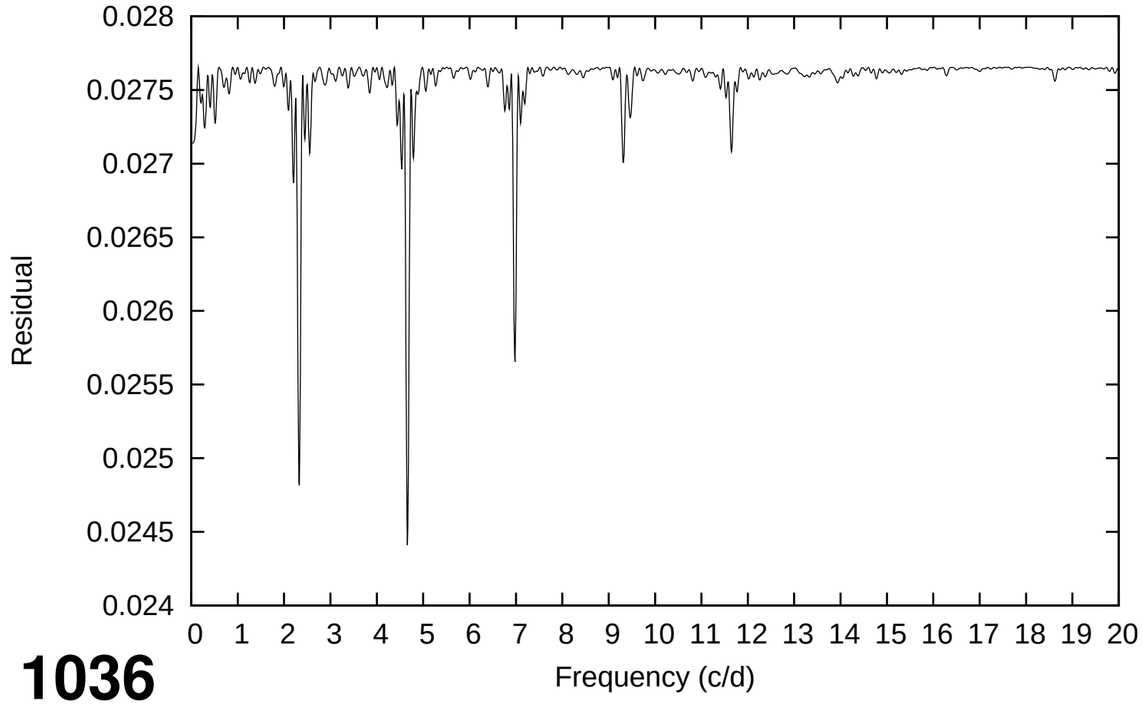

13.2
13.3
13.4
13.5
13.6
13.7
Brightness (TESS/I)
-16
-15
-14
-13
-12
-11
-10
-9
-8
-7
Time (t-2458370)


0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

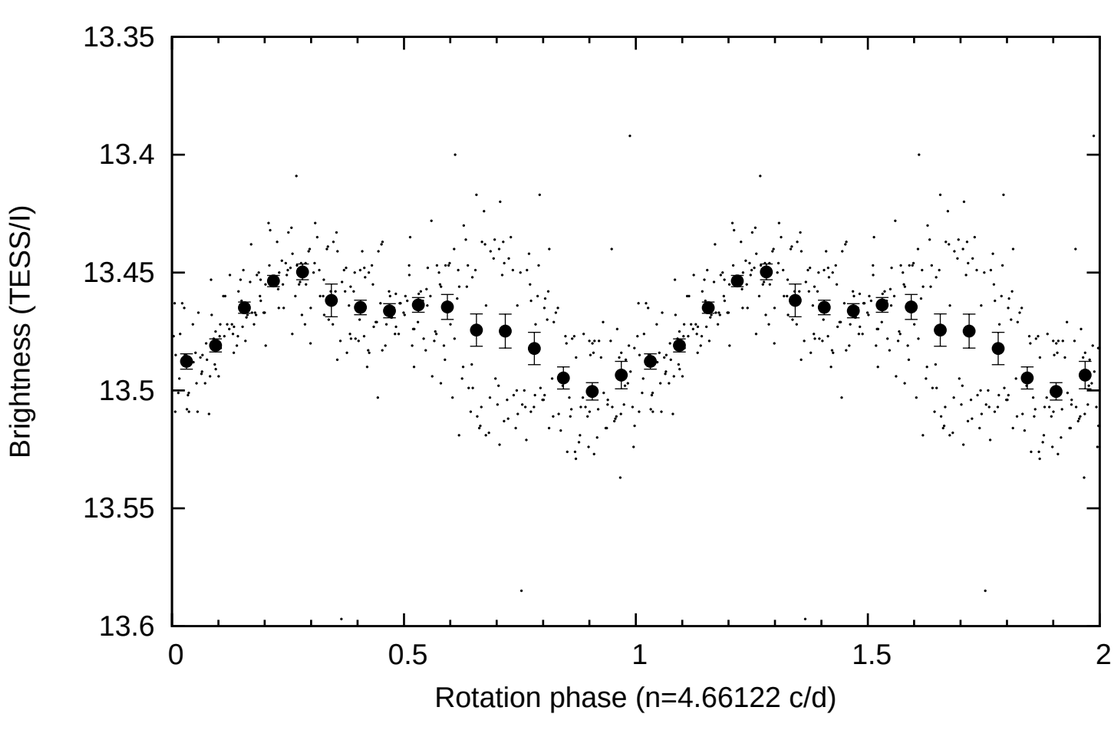

13.25
13.3
13.35
13.4
13.45
13.5
13.55
13.6
13.65
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=12.8239 c/d)

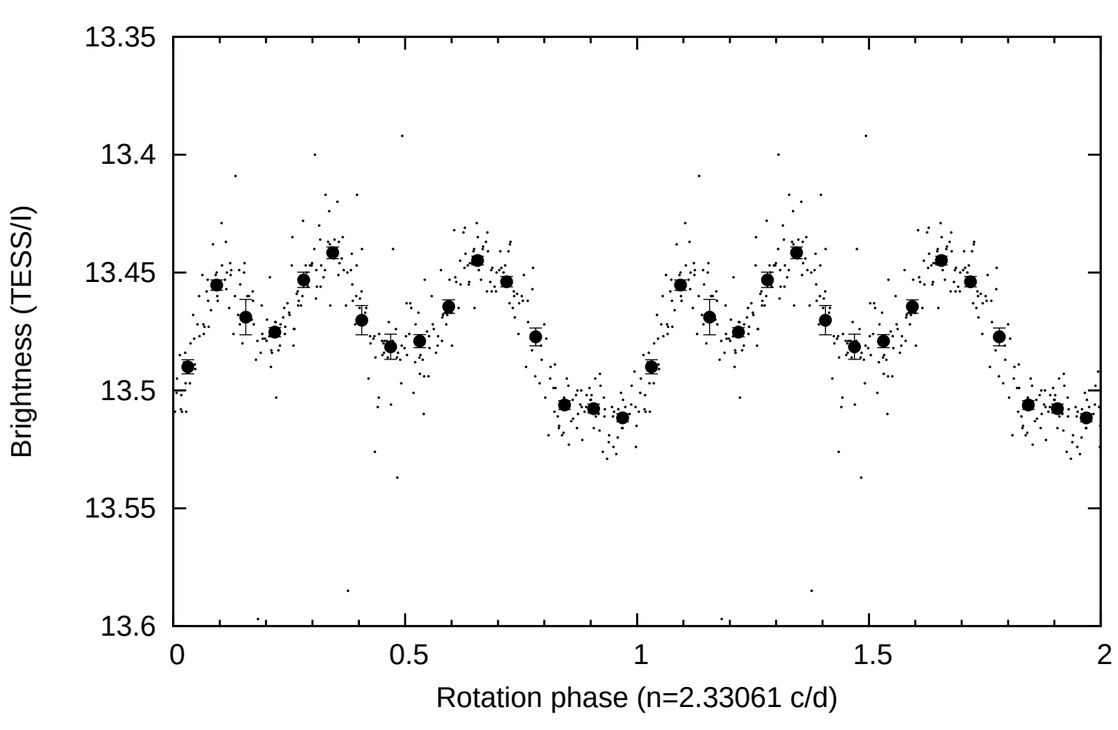

13.25
13.3
13.35
13.4
13.45
13.5
13.55
13.6
13.65
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=6.41195 c/d)

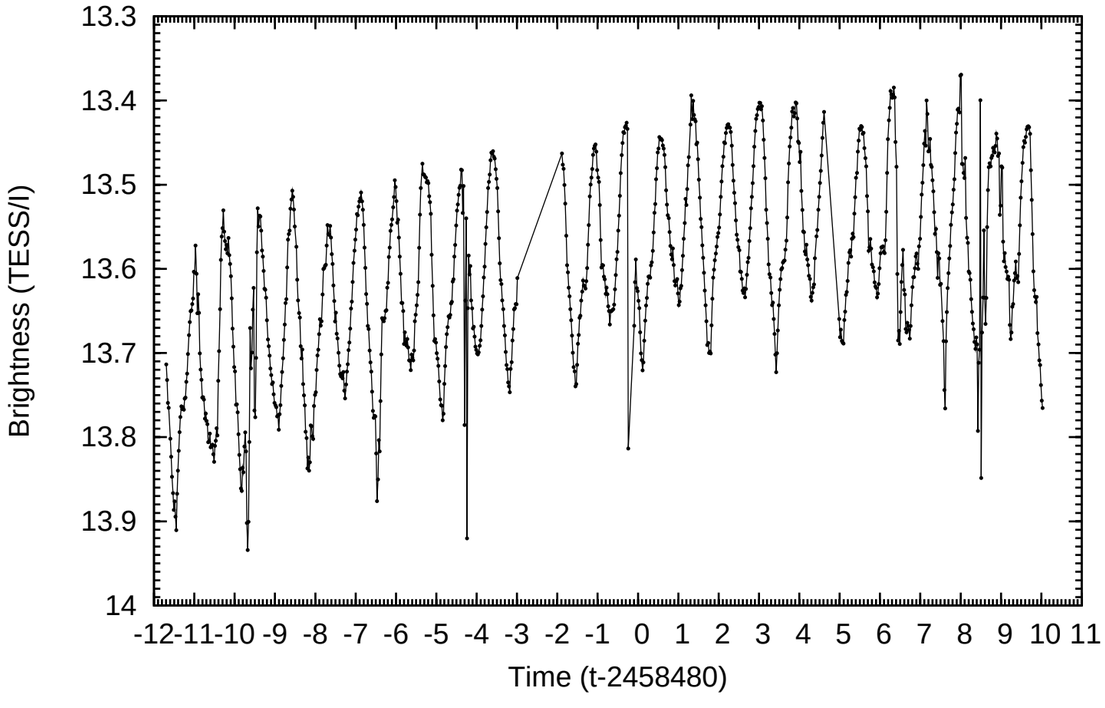

Brightness (TESS/I)
Time (t-2458585)
13.3
13.4
13.5
13.6
13.7
-6
-5
-4
-3
-2
-1
0
1
2
3
4
5
6

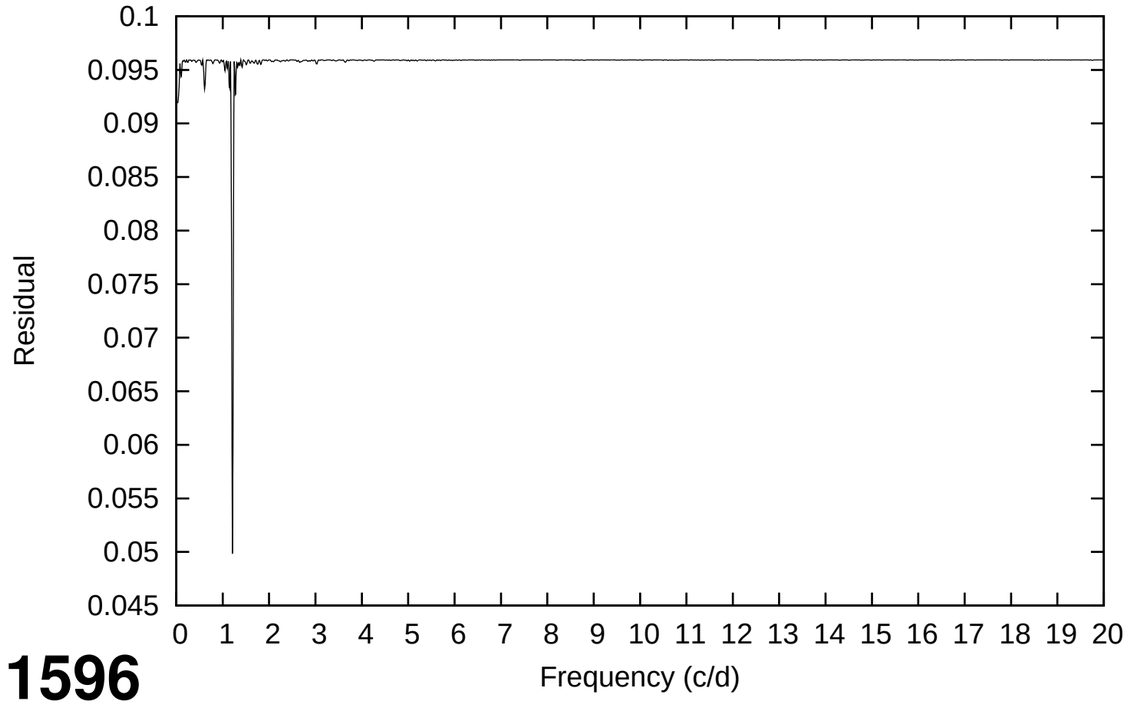

Residual
Frequency (c/d)
0.028
0.0275
0.027
0.0265
0.026
0.0255
0.025
0.0245
0.024
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

1036

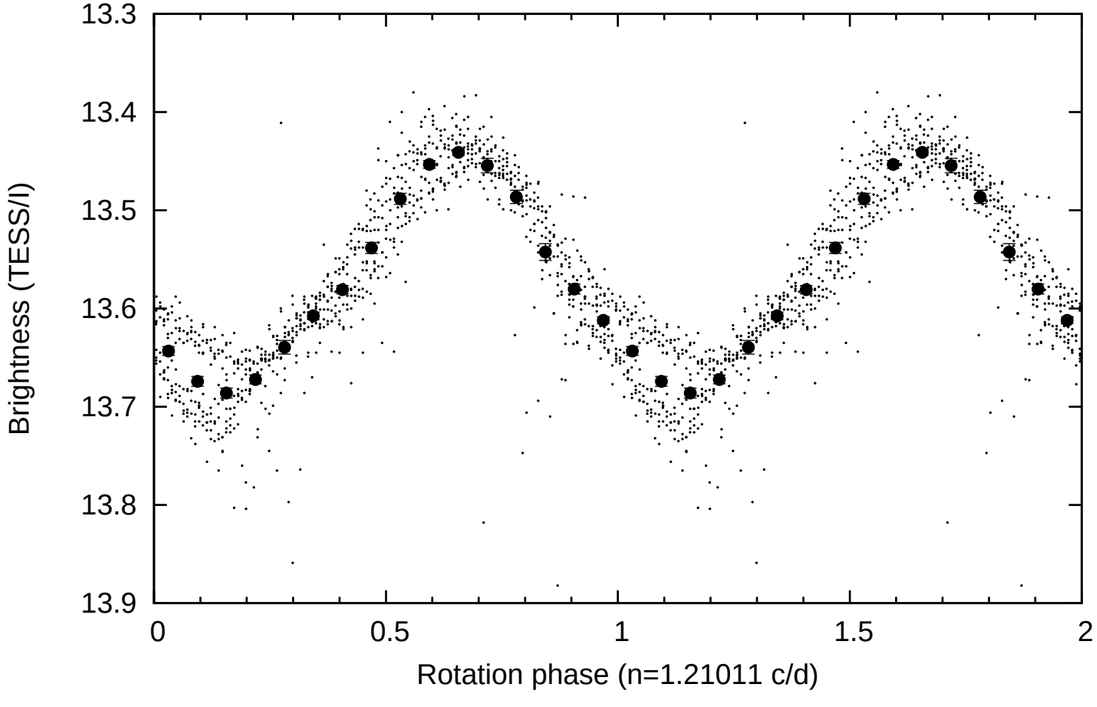

Brightness (TESS/I)
Rotation phase (n=4.66122 c/d)
13.35
13.4
13.45
13.5
13.55
13.6
0
0.5
1
1.5
2

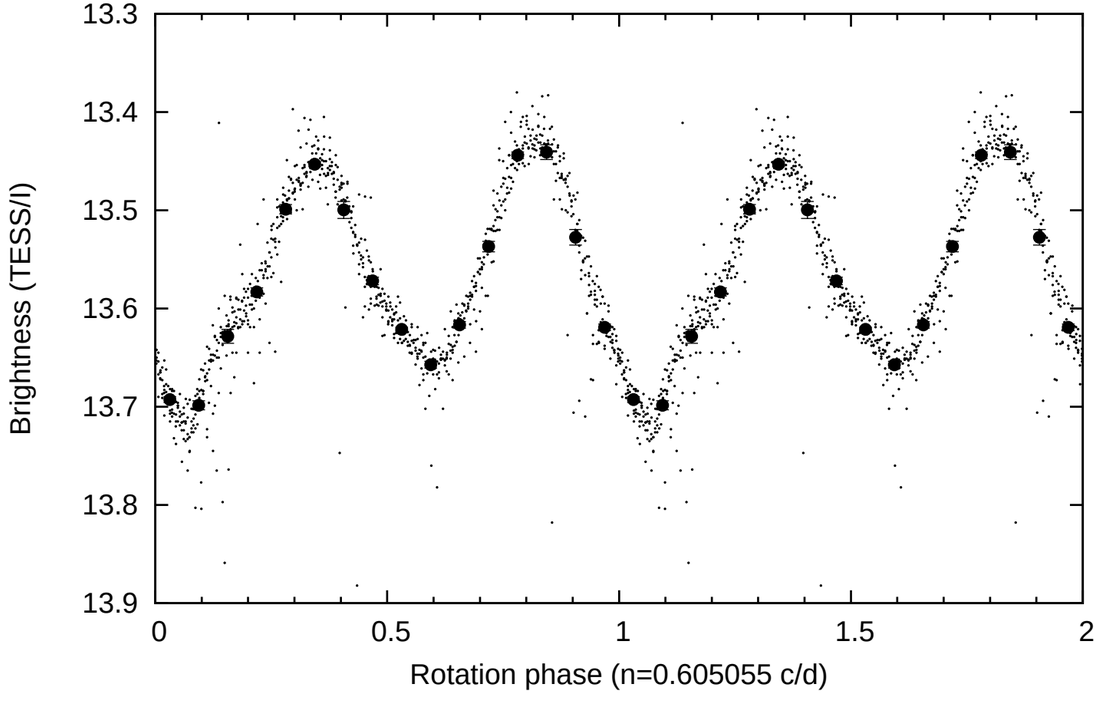

Brightness (TESS/I)
Rotation phase (n=2.33061 c/d)
13.35
13.4
13.45
13.5
13.55
13.6
0
0.5
1
1.5
2

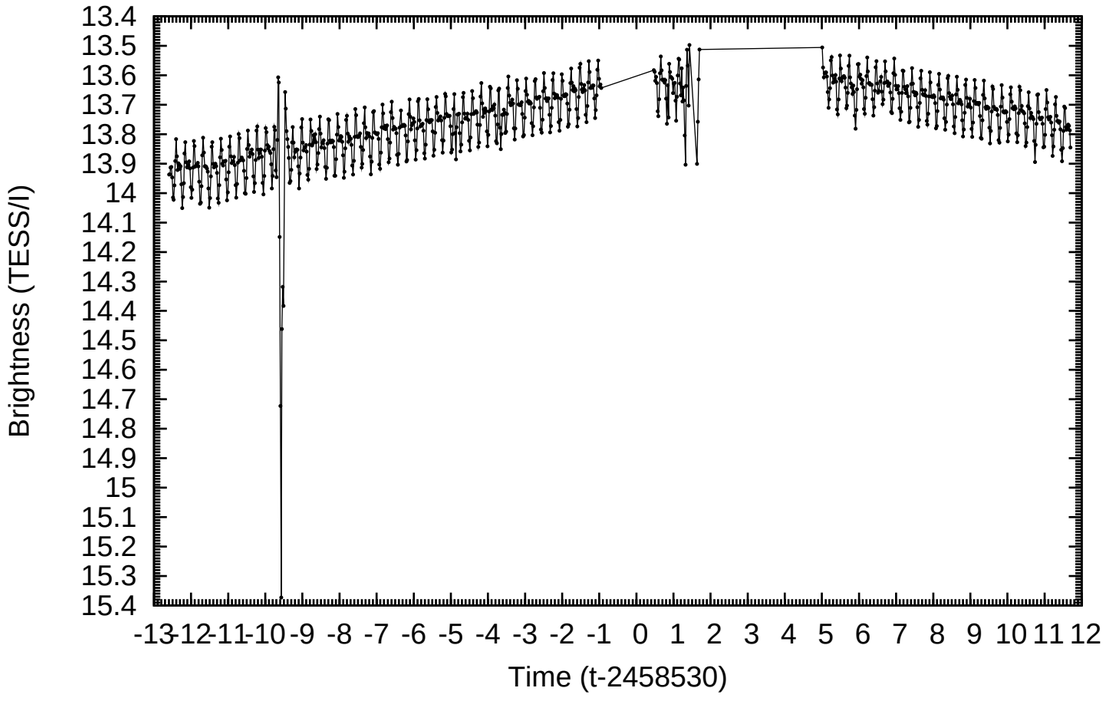

Brightness (TESS/I)
Time (t-2458480)

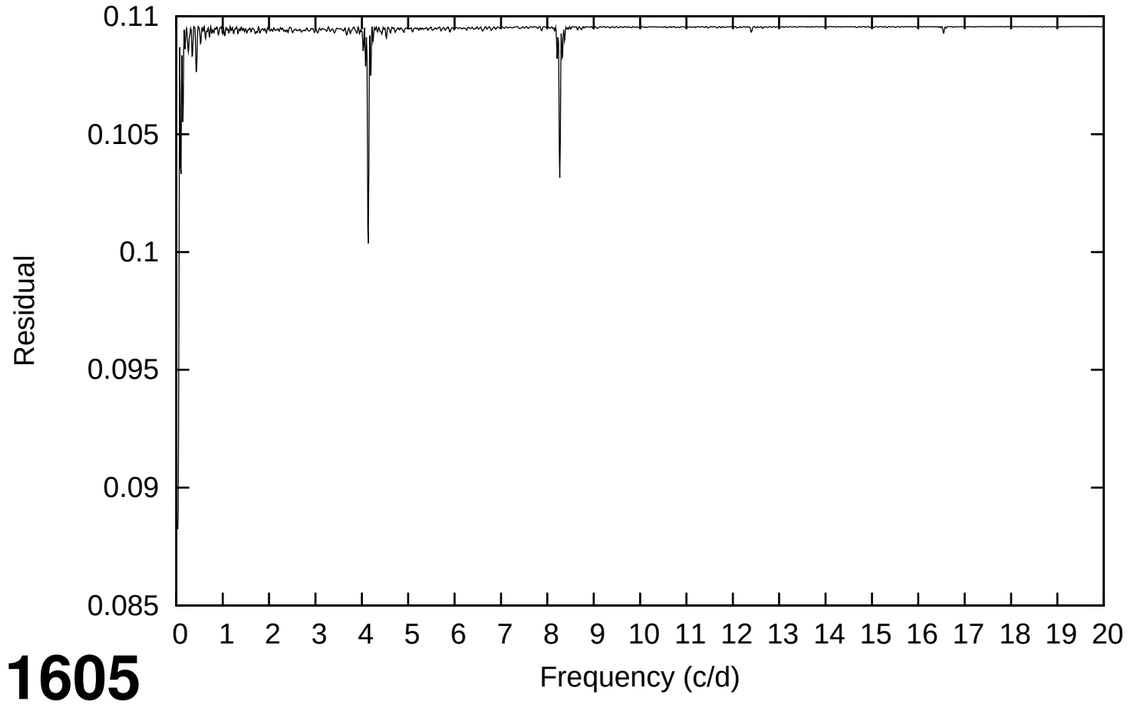

Residual
Frequency (c/d)

1596

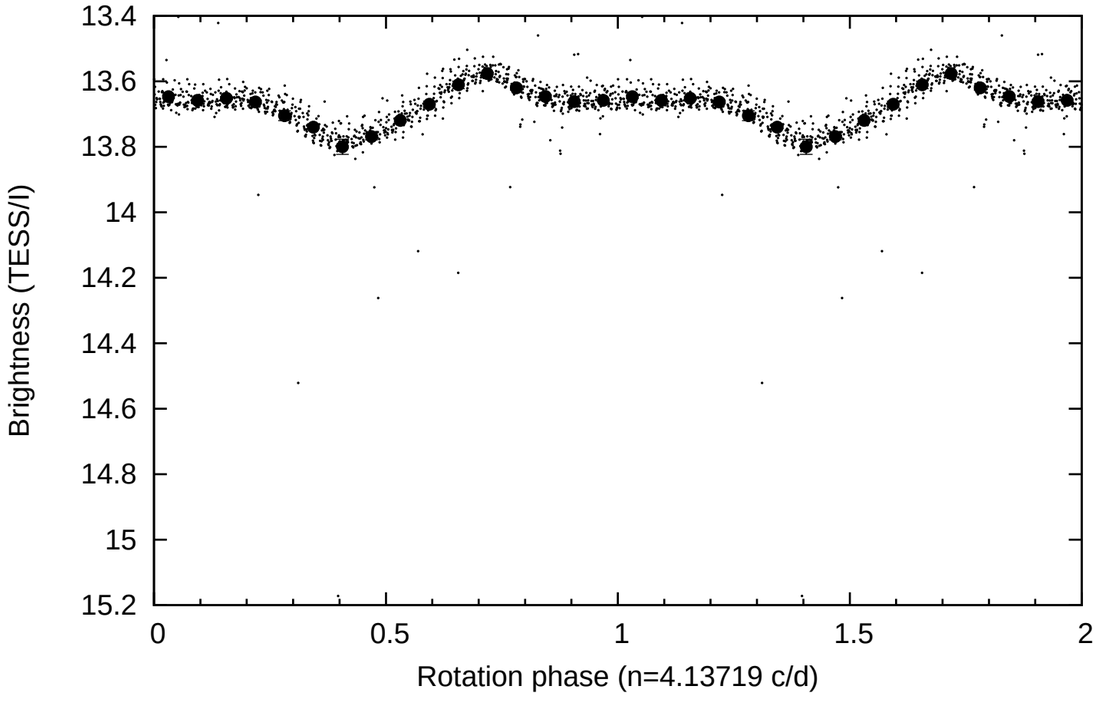

Brightness (TESS/I)
Rotation phase (n=1.21011 c/d)

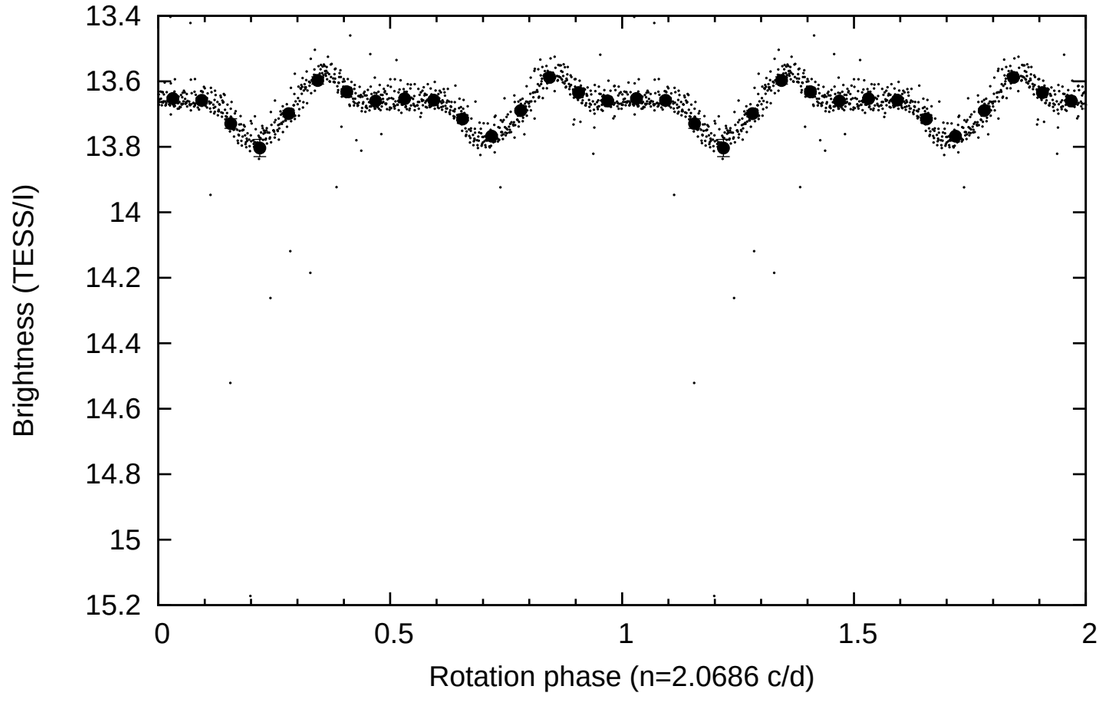

Brightness (TESS/I)
Rotation phase (n=0.605055 c/d)


Brightness (TESS/I)
Time (t-2458530)

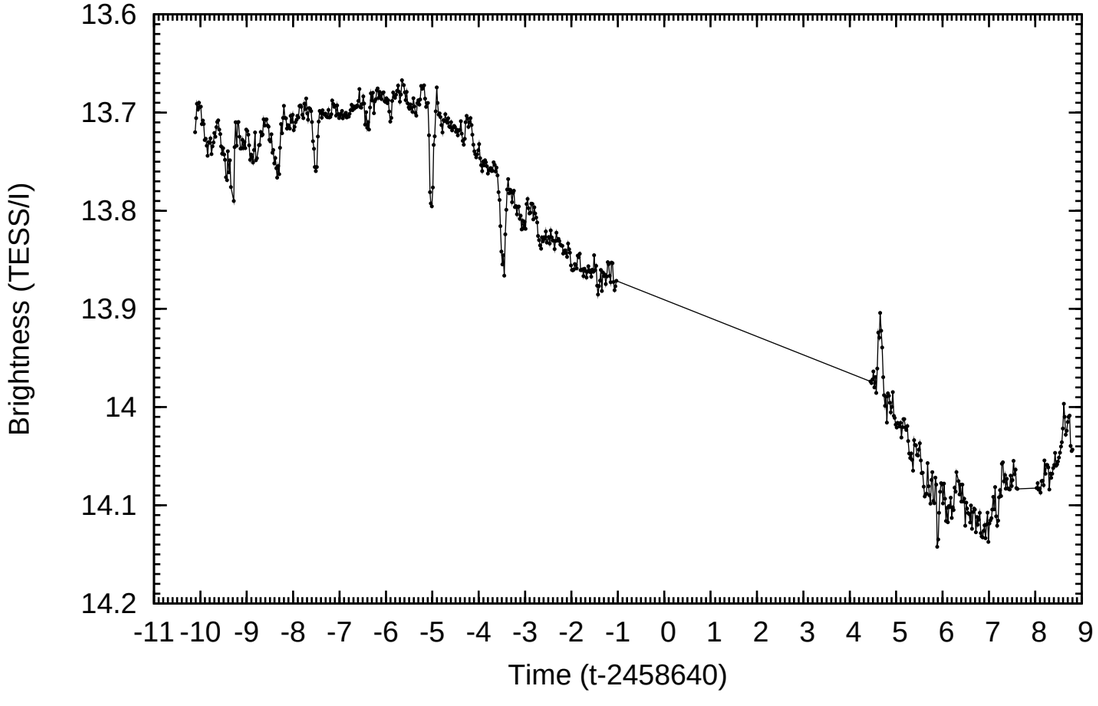

Residual
Frequency (c/d)

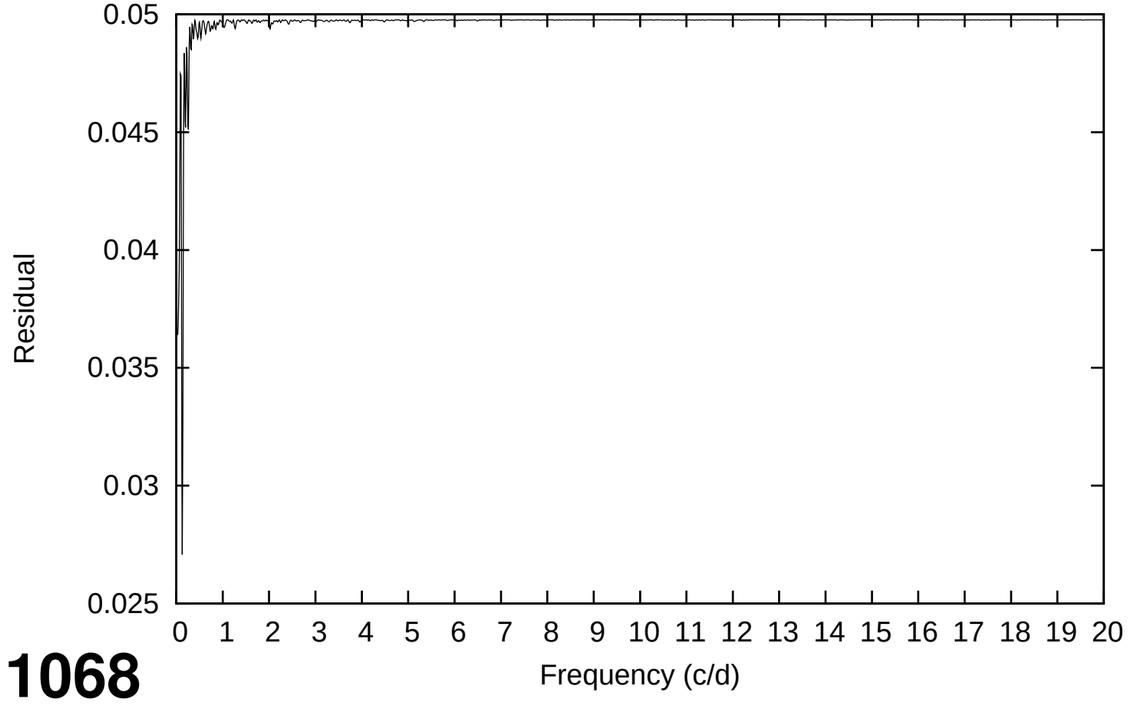
1605

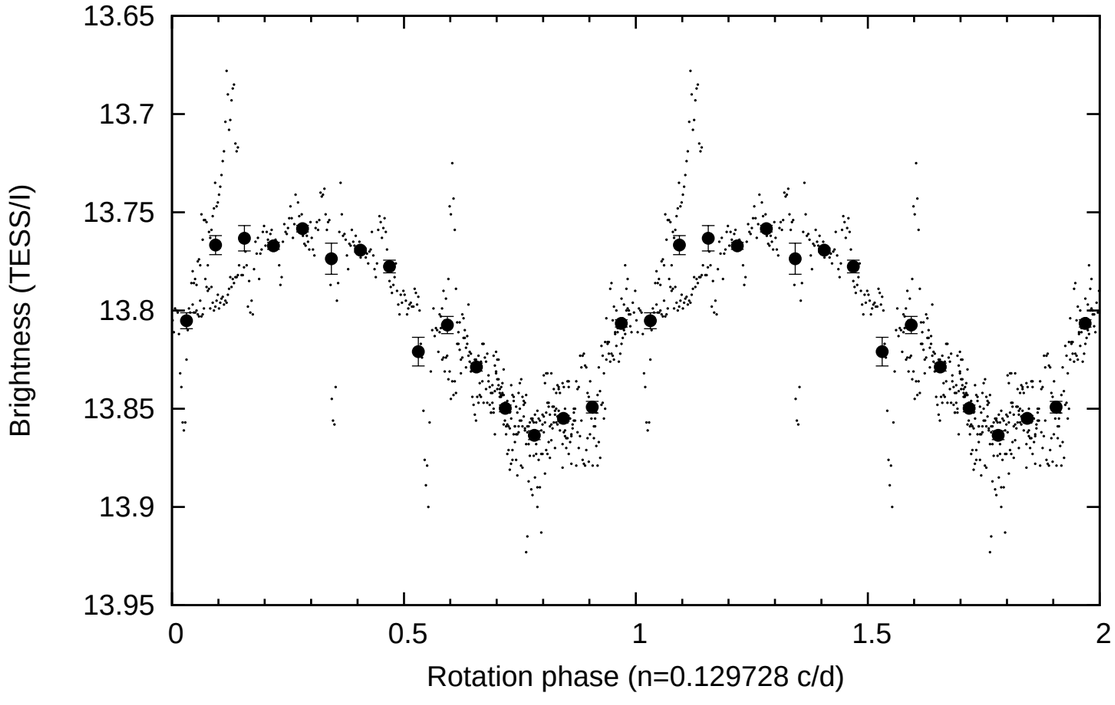

Brightness (TESS/I)
Rotation phase (n=4.13719 c/d)

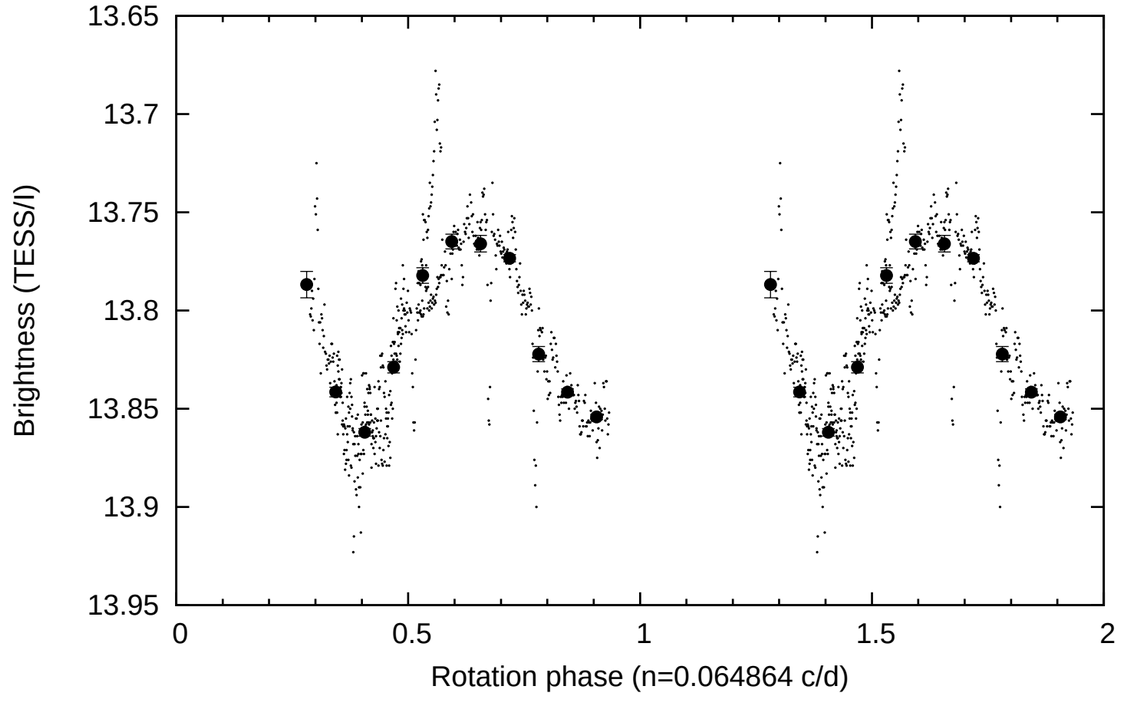

Brightness (TESS/I)
Rotation phase (n=2.0686 c/d)

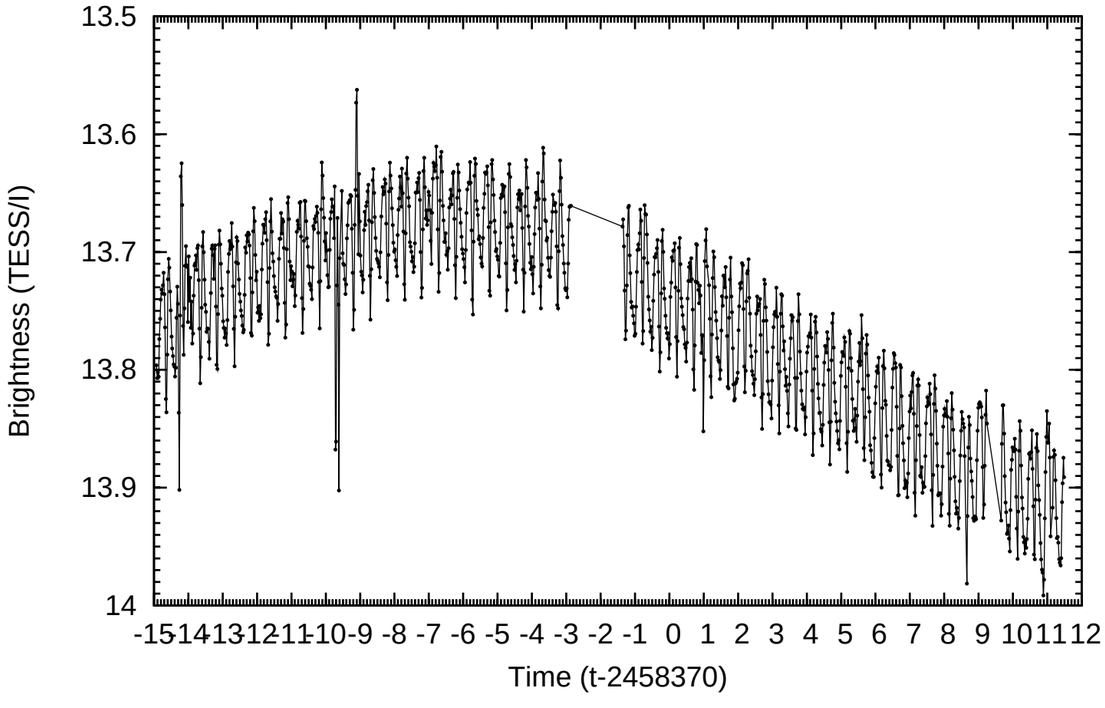
1068

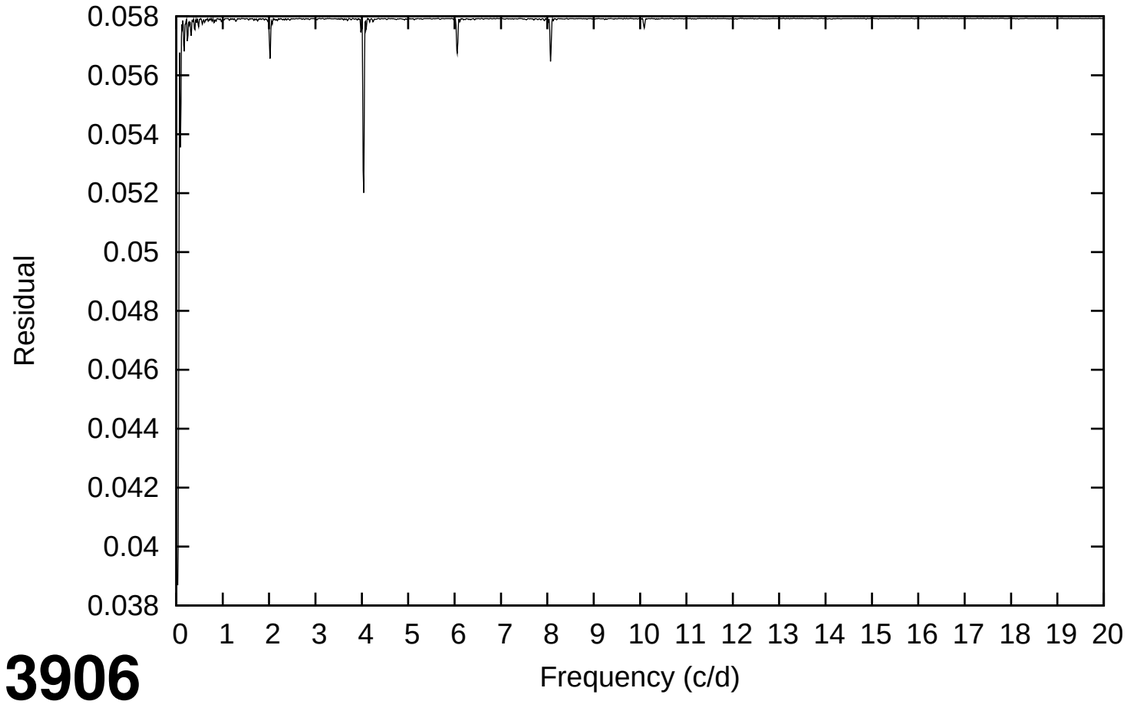

Brightness (TESS/I)
Time (t-2458640)


Residual
Frequency (c/d)

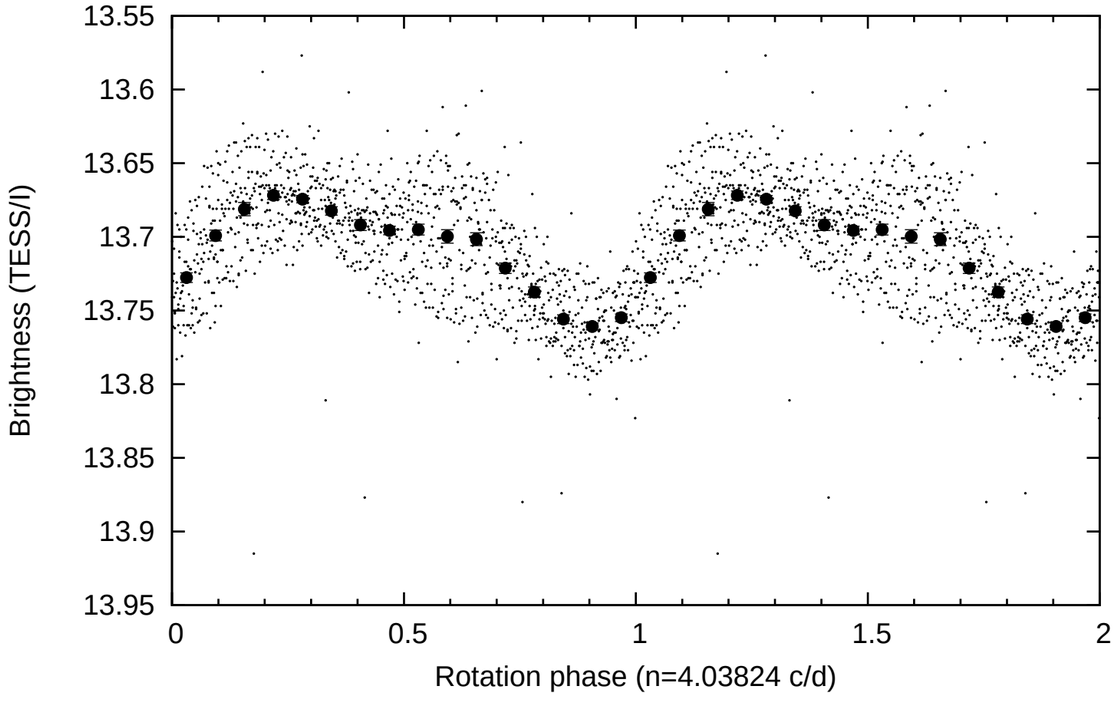

Brightness (TESS/I)
Rotation phase (n=0.129728 c/d)

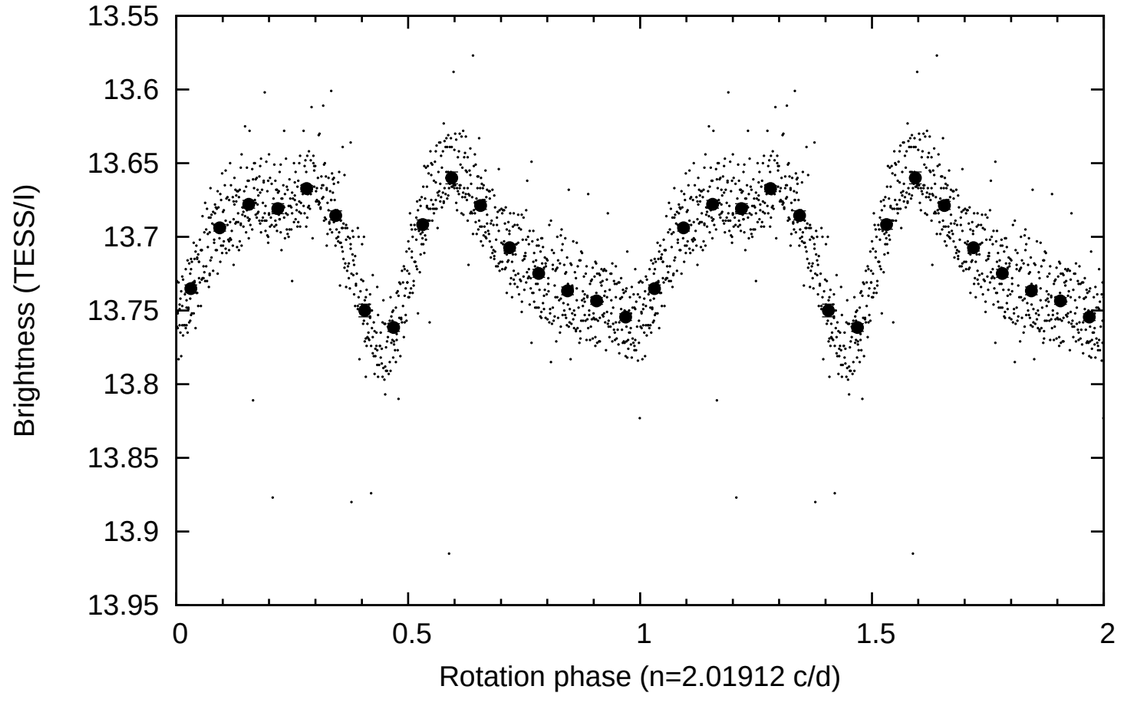

Brightness (TESS/I)
Rotation phase (n=0.064864 c/d)

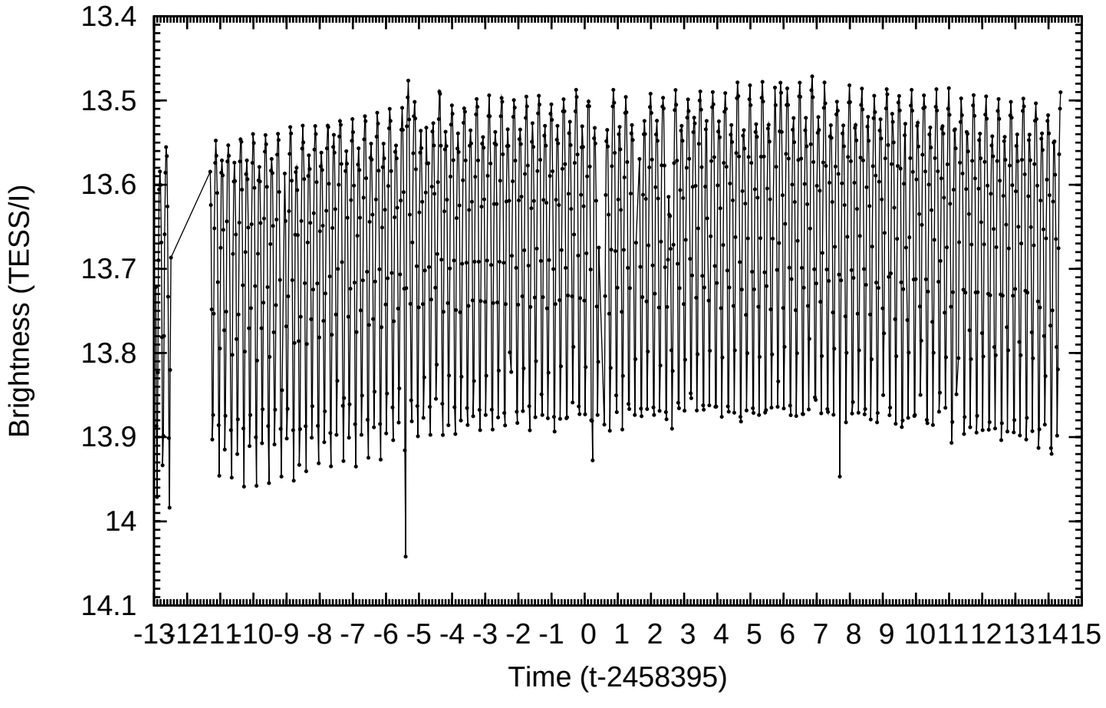

Brightness (TESS/I)
Time (t-2458370)

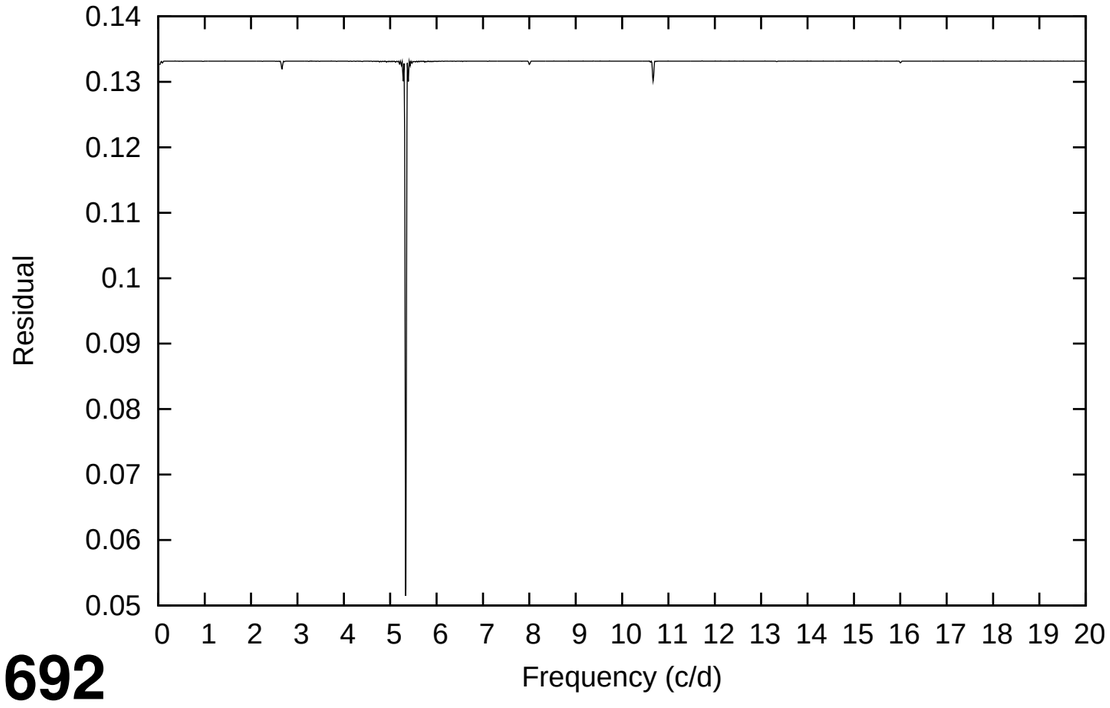

Residual
Frequency (c/d)

3906

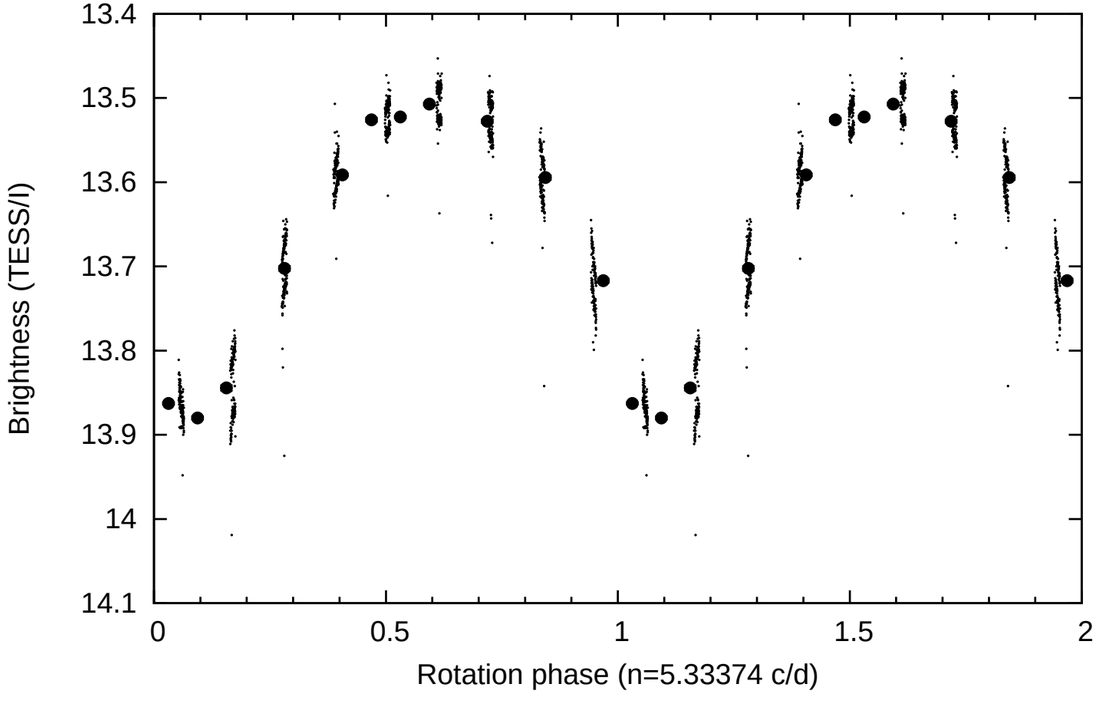

Brightness (TESS/I)
Rotation phase (n=4.03824 c/d)

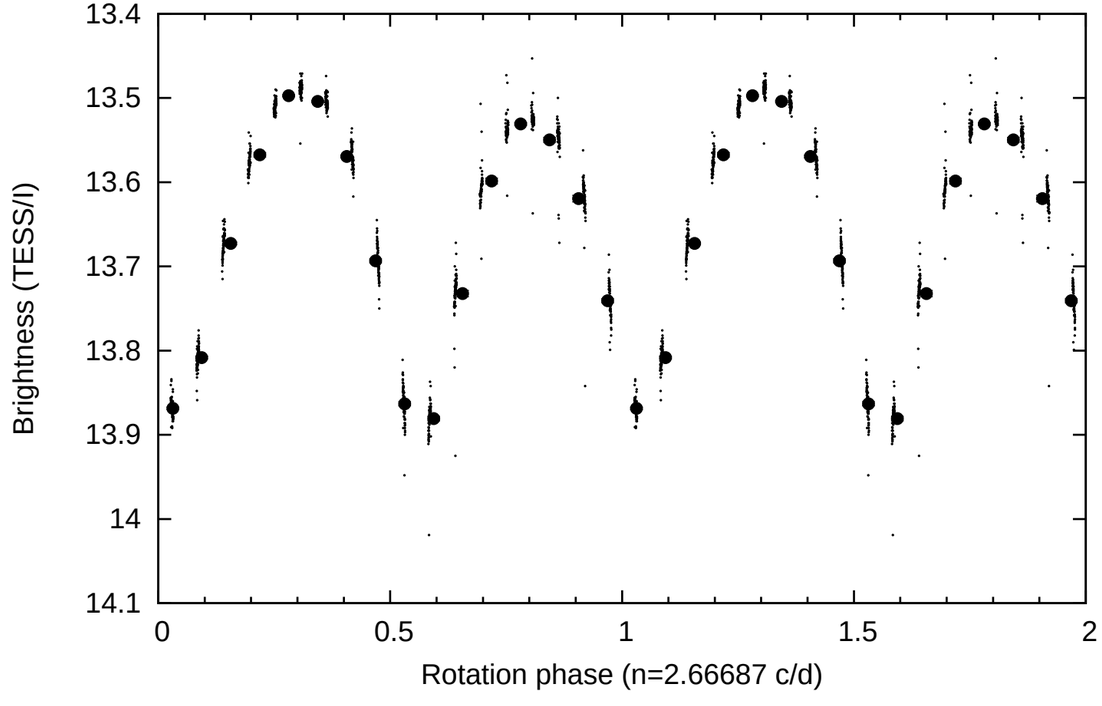

Brightness (TESS/I)
Rotation phase (n=2.01912 c/d)

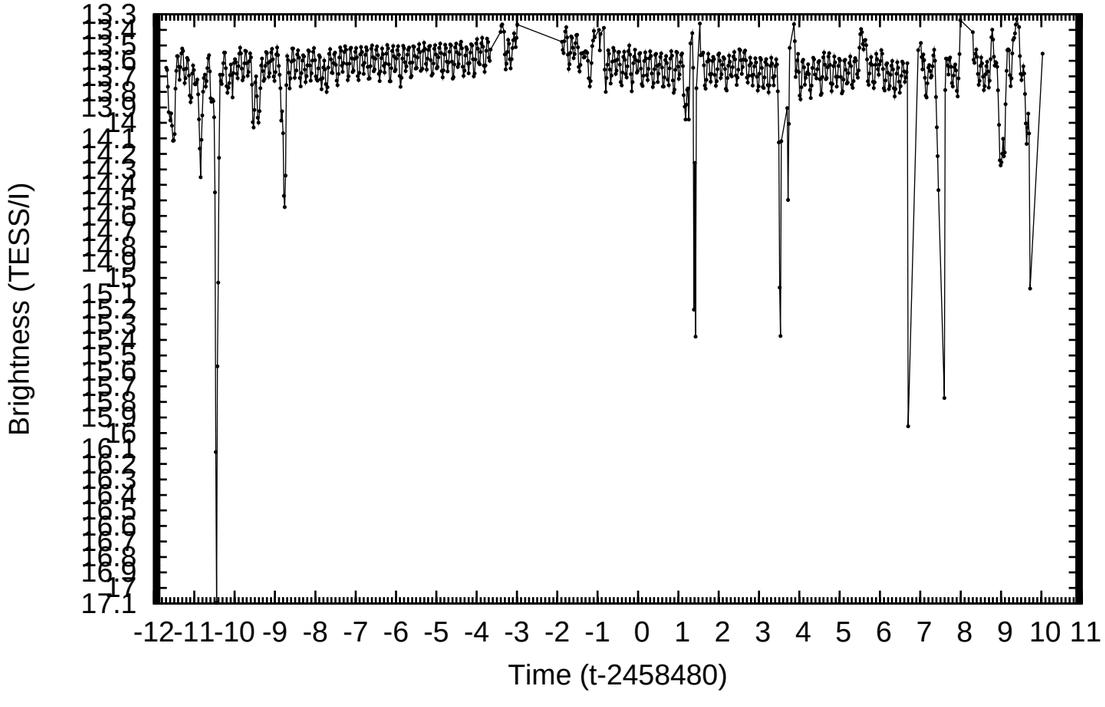

Brightness (TESS/I)
Time (t-2458395)

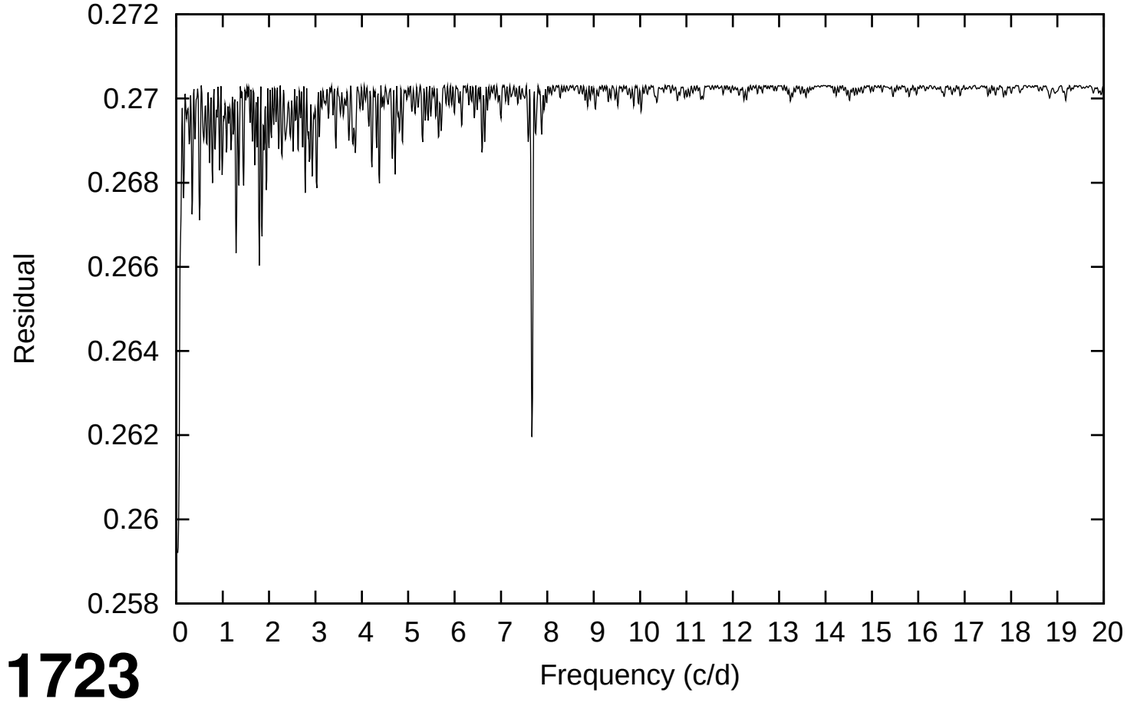

Residual
Frequency (c/d)

692

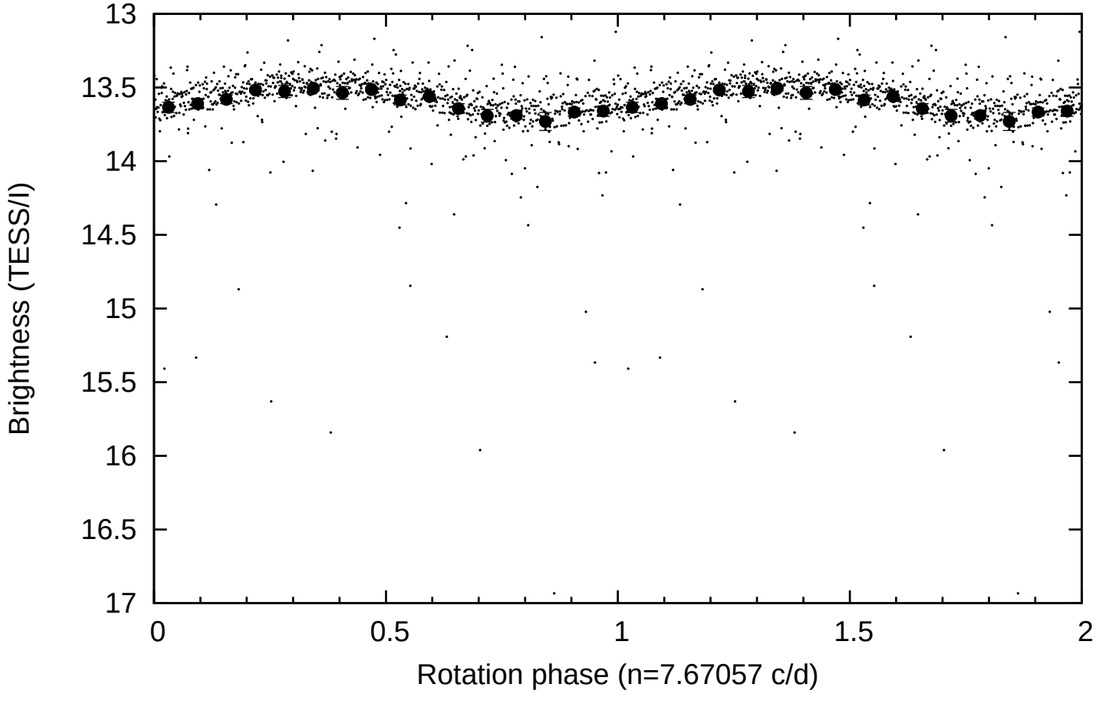

Brightness (TESS/I)
Rotation phase (n=5.33374 c/d)

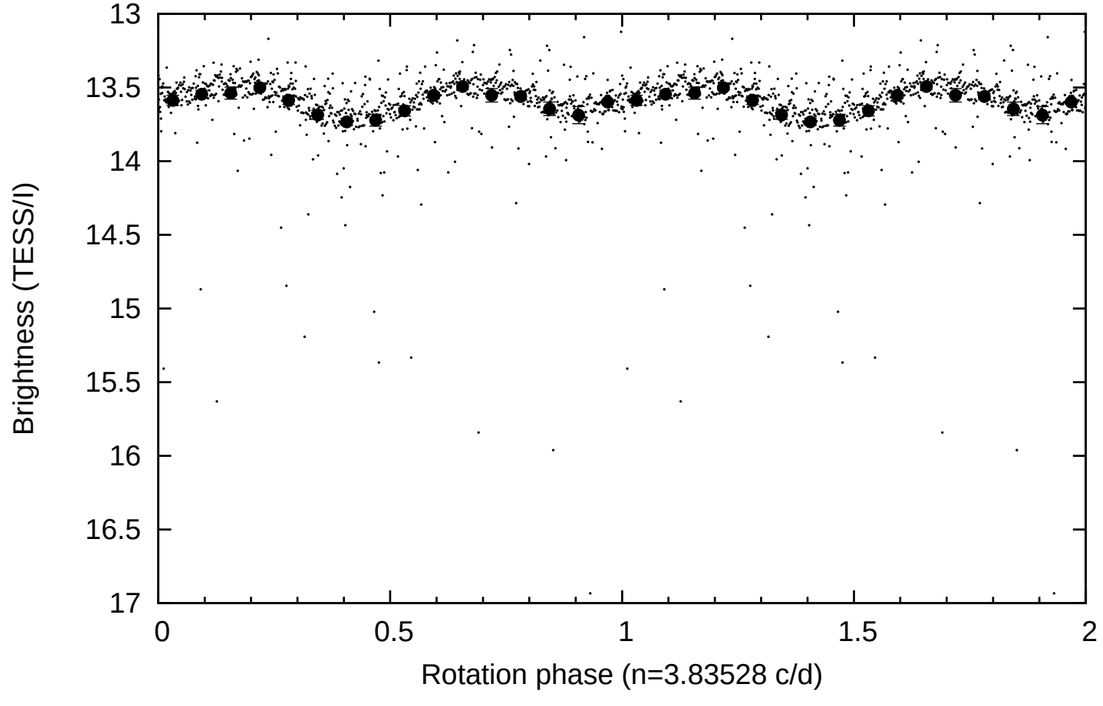

Brightness (TESS/I)
Rotation phase (n=2.66687 c/d)


Brightness (TESS/I)
Time (t-2458480)

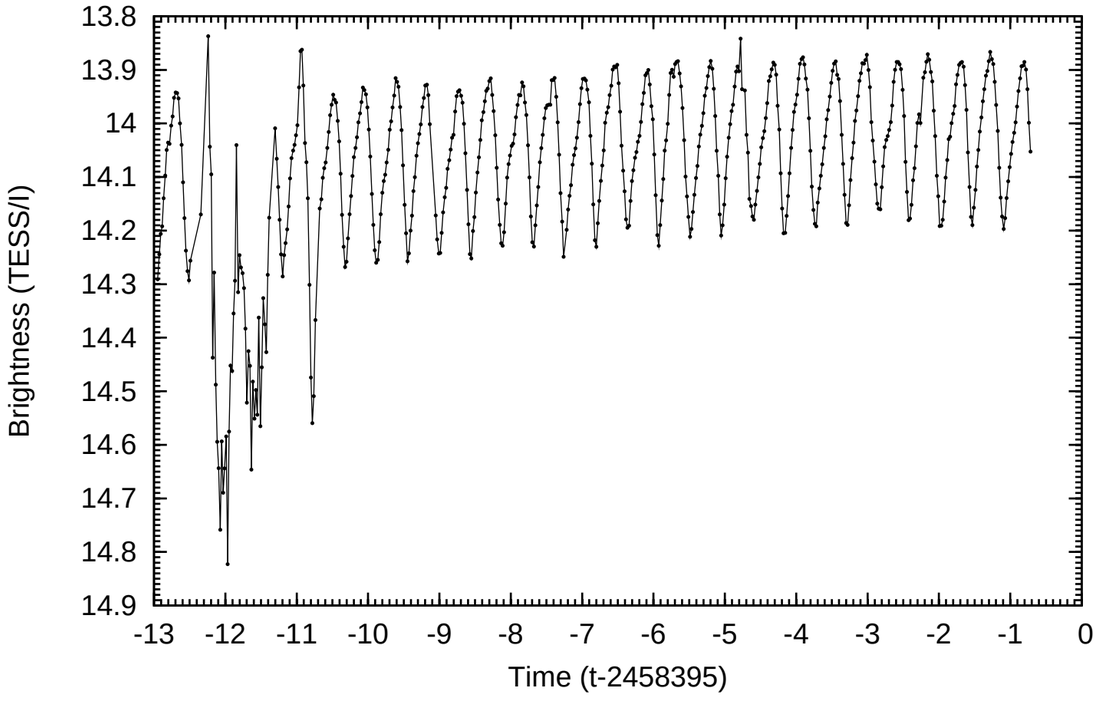

Residual
Frequency (c/d)

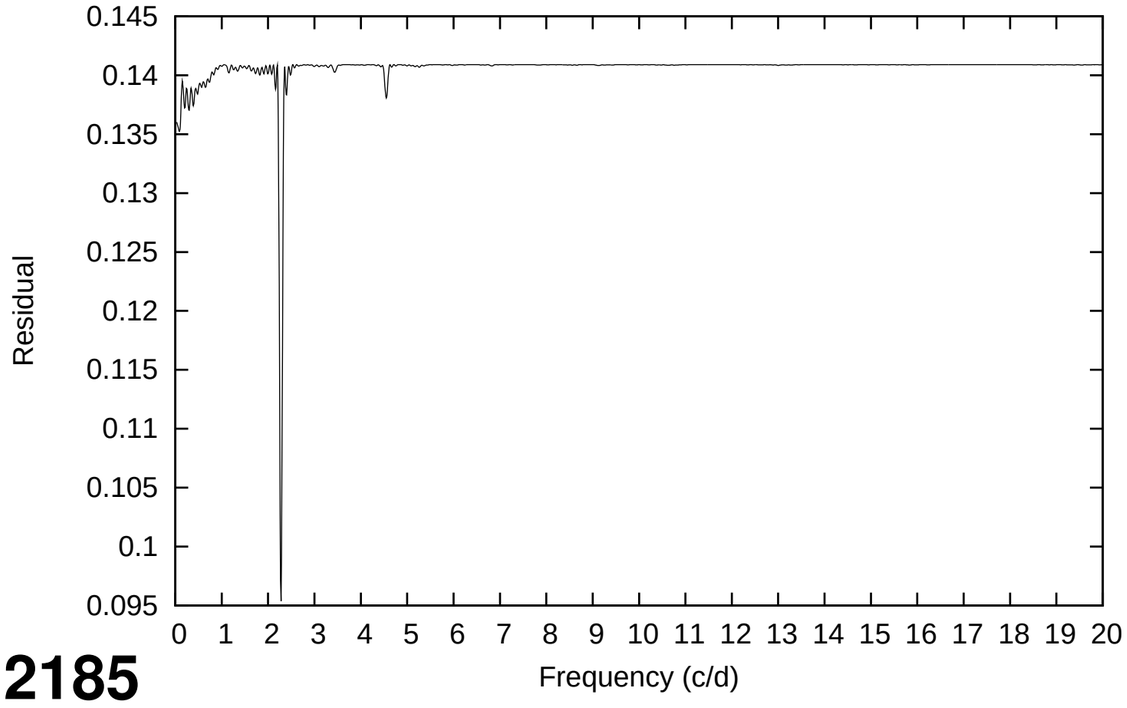
1723

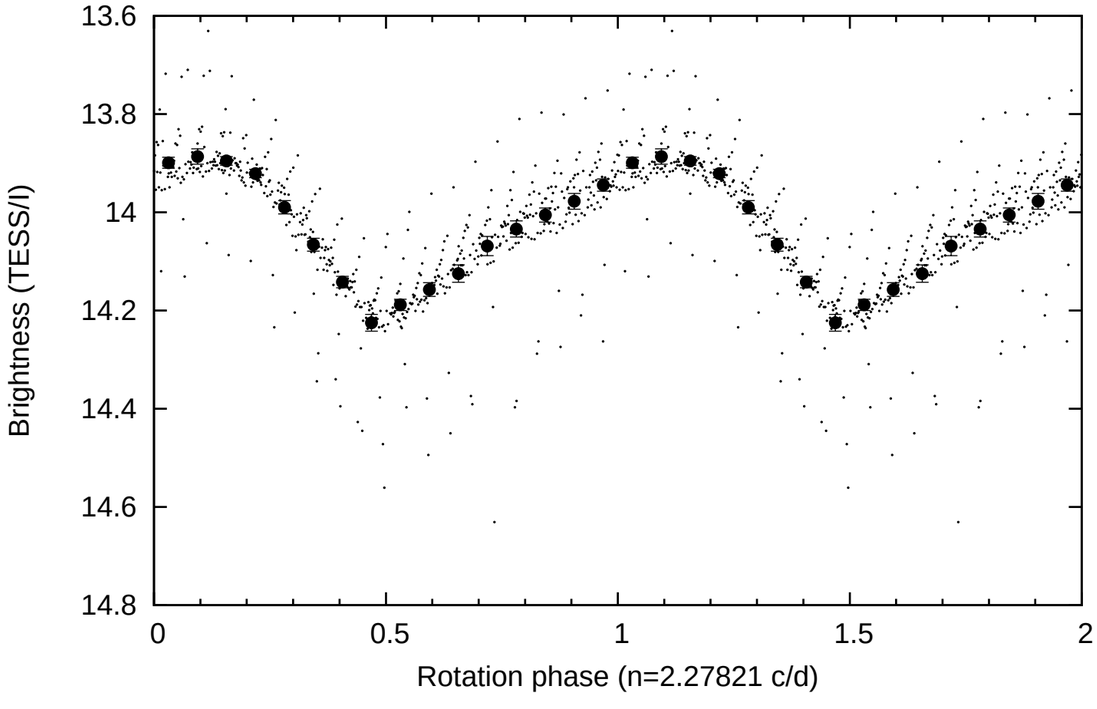

Brightness (TESS/I)
Rotation phase (n=7.67057 c/d)

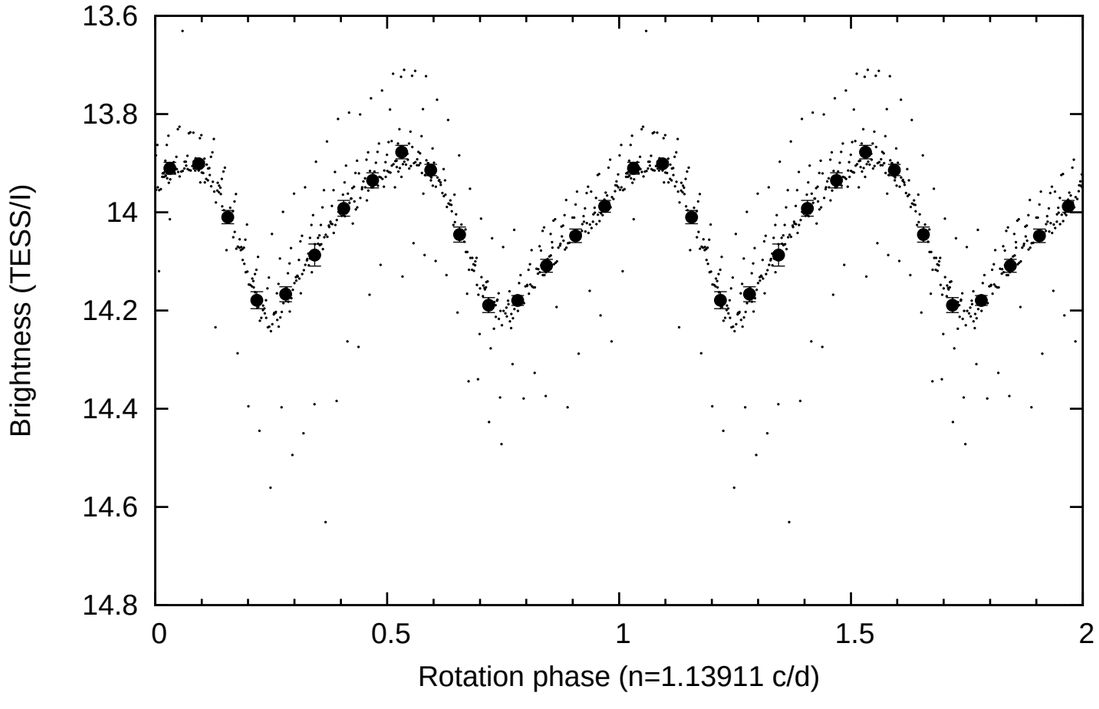

Brightness (TESS/I)
Rotation phase (n=3.83528 c/d)

2185

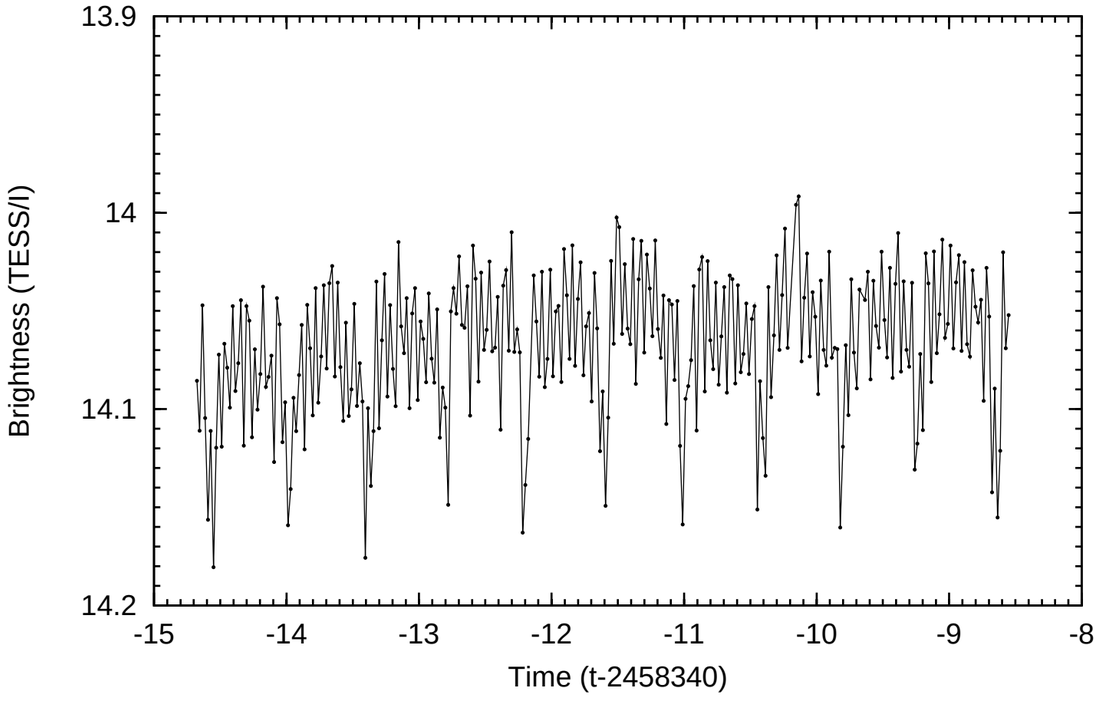

Brightness (TESS/I)
Time (t-2458395)
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
14.6
14.7
14.8
14.9
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
0

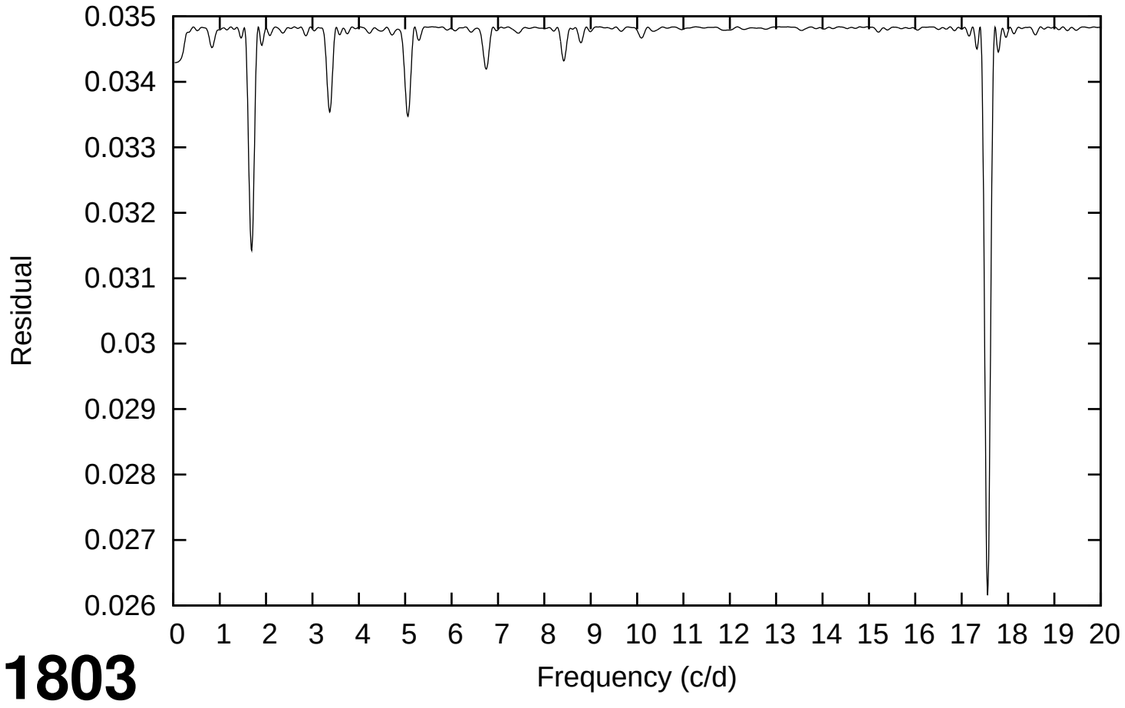

Residual
Frequency (c/d)
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

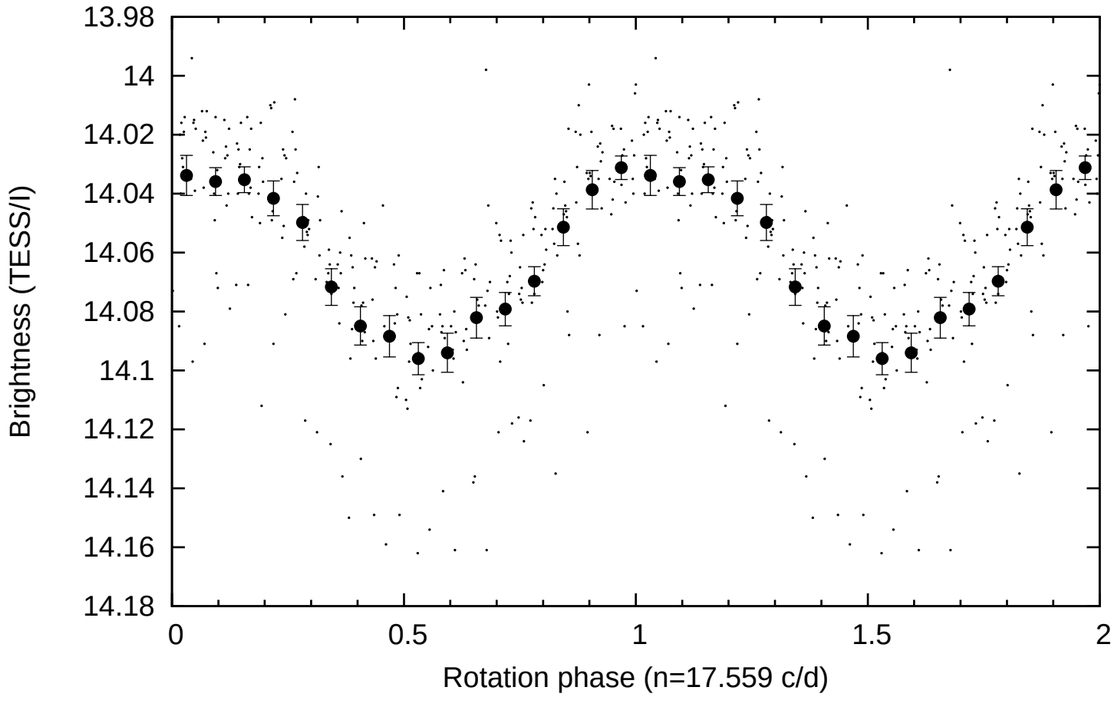

Brightness (TESS/I)
Rotation phase (n=2.27821 c/d)
13.6
13.8
14
14.2
14.4
14.6
14.8
0
0.5
1
1.5
2

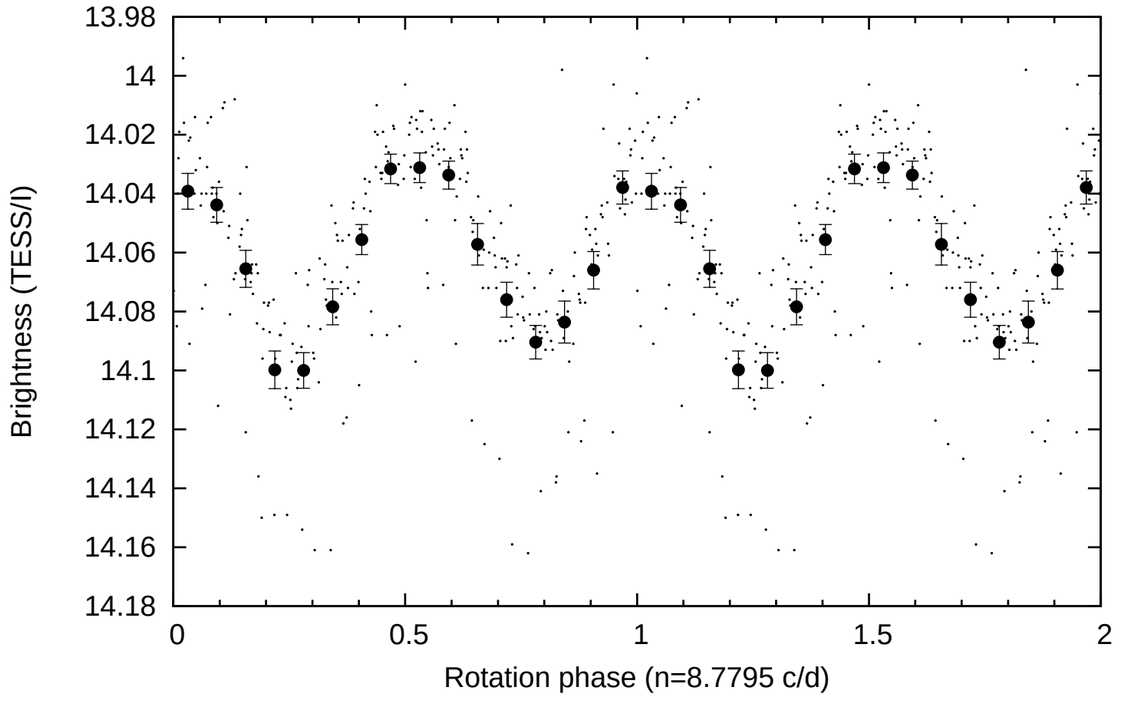

Brightness (TESS/I)
Rotation phase (n=1.13911 c/d)
13.6
13.8
14
14.2
14.4
14.6
14.8
0
0.5
1
1.5
2

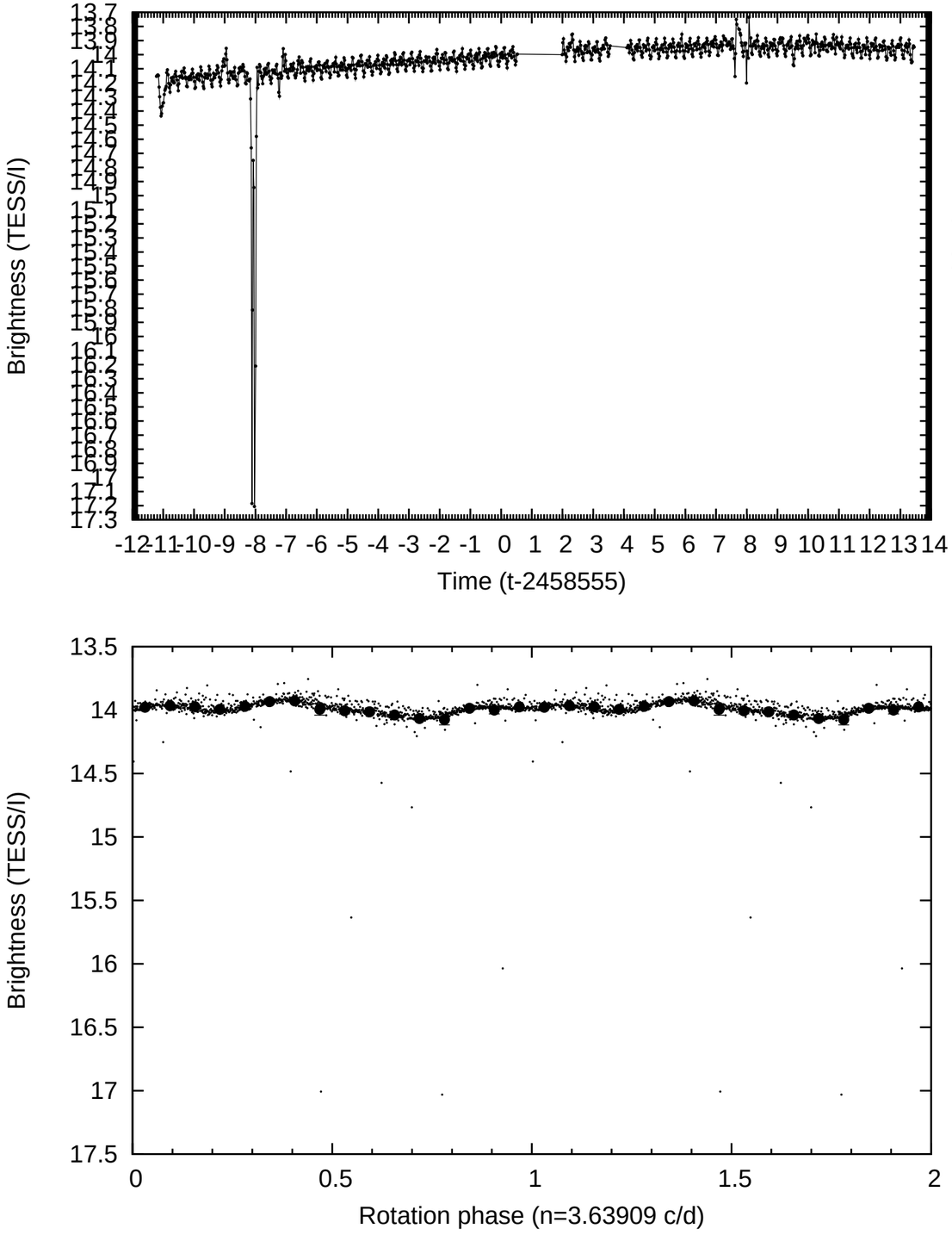
1803

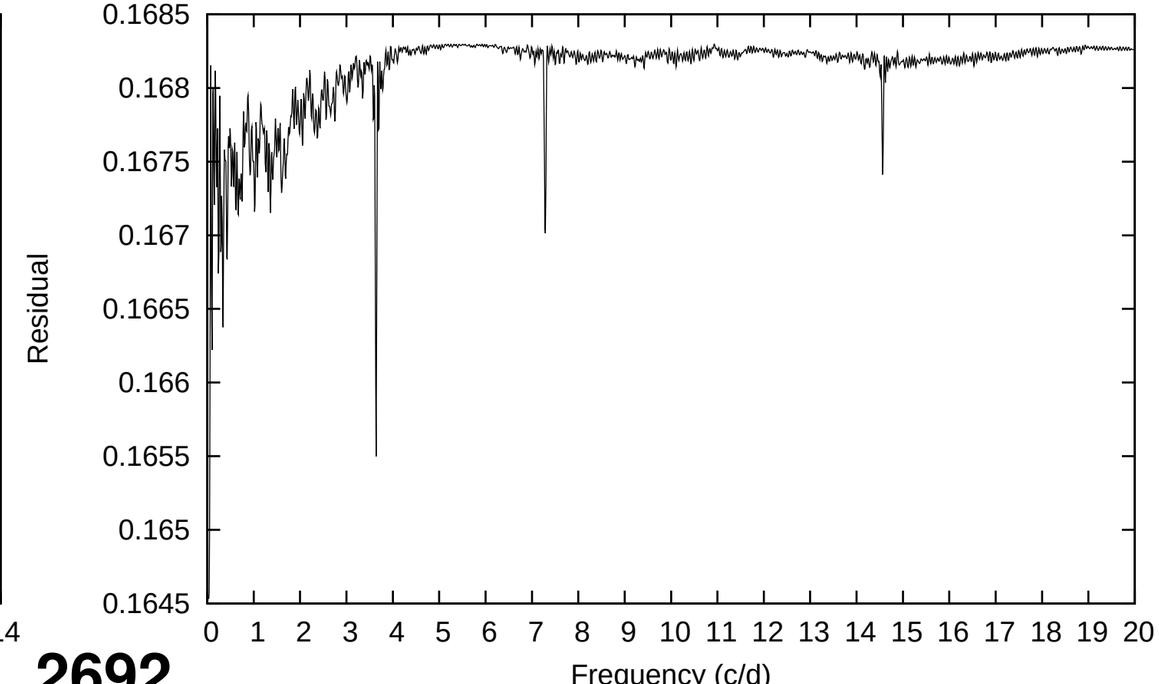

Brightness (TESS/I)
13.9
14
14.1
14.2
-15
-14
-13
-12
-11
-10
-9
-8
Time (t-2458340)


Residual
0.035
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)


Brightness (TESS/I)
13.98
14
14.02
14.04
14.06
14.08
14.1
14.12
14.14
14.16
14.18
0
0.5
1
1.5
2
Rotation phase (n=17.559 c/d)

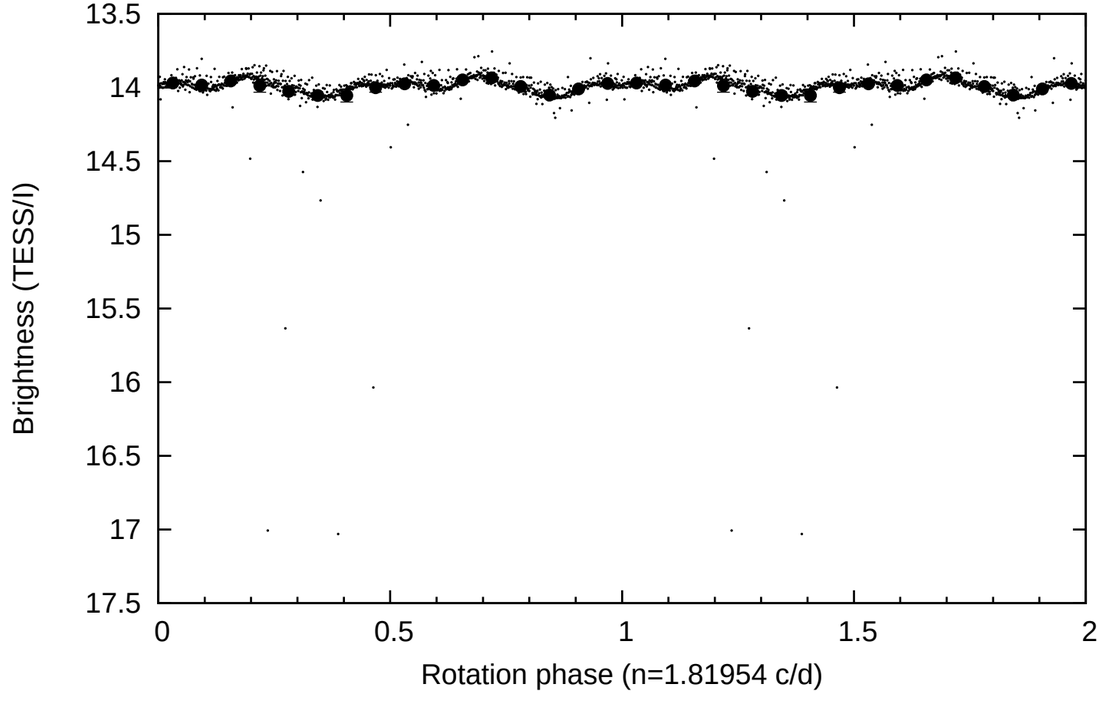

Brightness (TESS/I)
13.98
14
14.02
14.04
14.06
14.08
14.1
14.12
14.14
14.16
14.18
0
0.5
1
1.5
2
Rotation phase (n=8.7795 c/d)


Brightness (TESS/I)
Time (t-2458555)

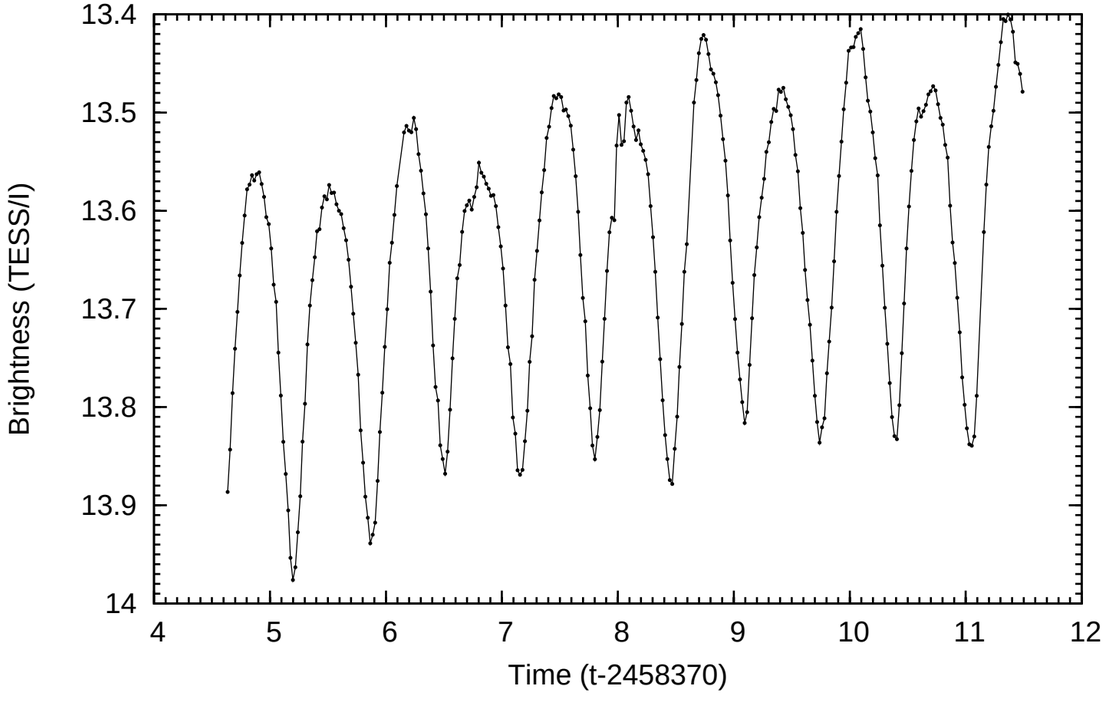

Residual
Frequency (c/d)

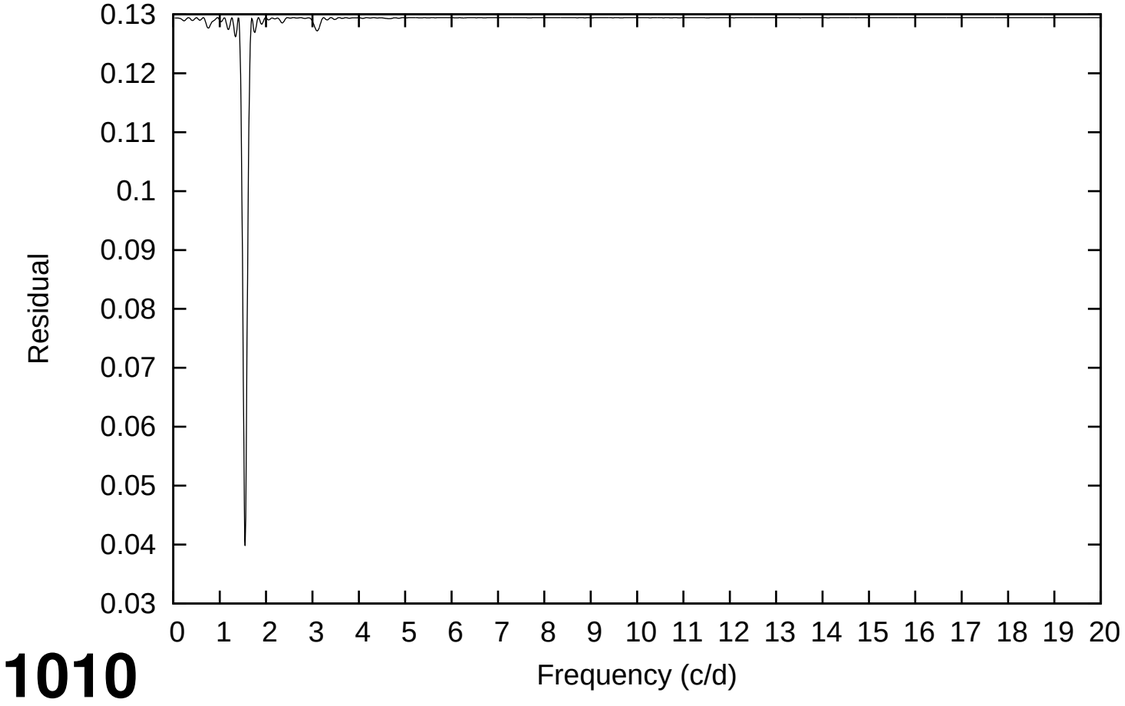
2692

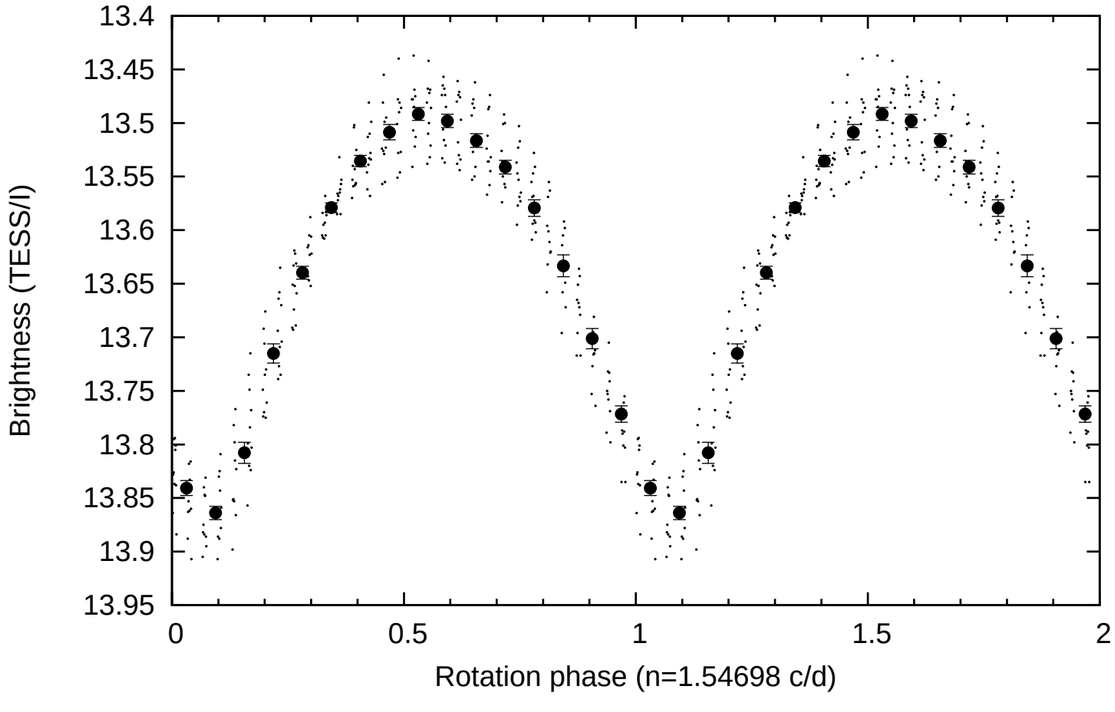
Brightness (TESS/I)
Rotation phase (n=3.63909 c/d)

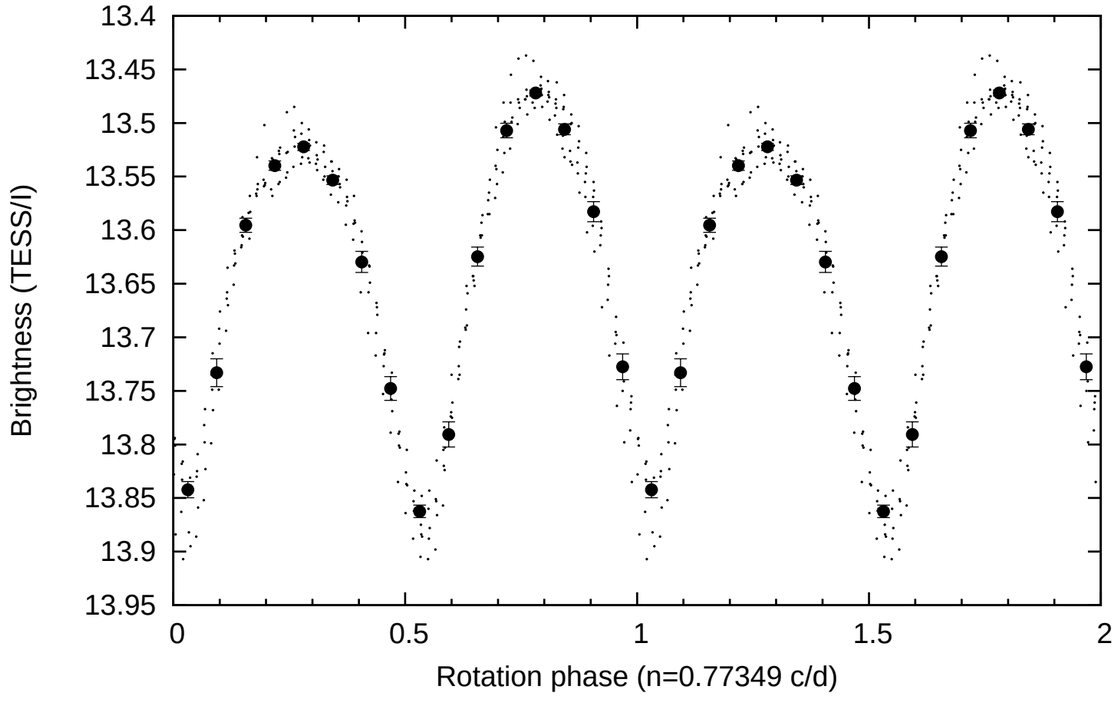

Brightness (TESS/I)
Rotation phase (n=1.81954 c/d)

1010

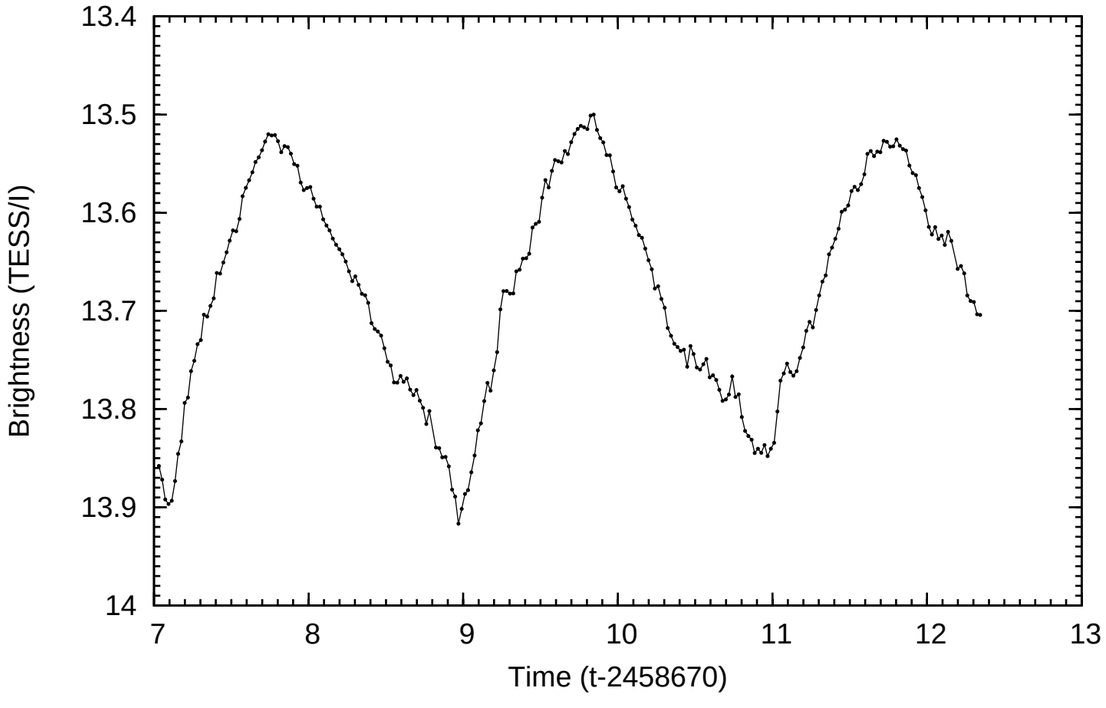

Brightness (TESS/I)
Time (t-2458370)
13.4
13.5
13.6
13.7
13.8
13.9
14
4
5
6
7
8
9
10
11
12

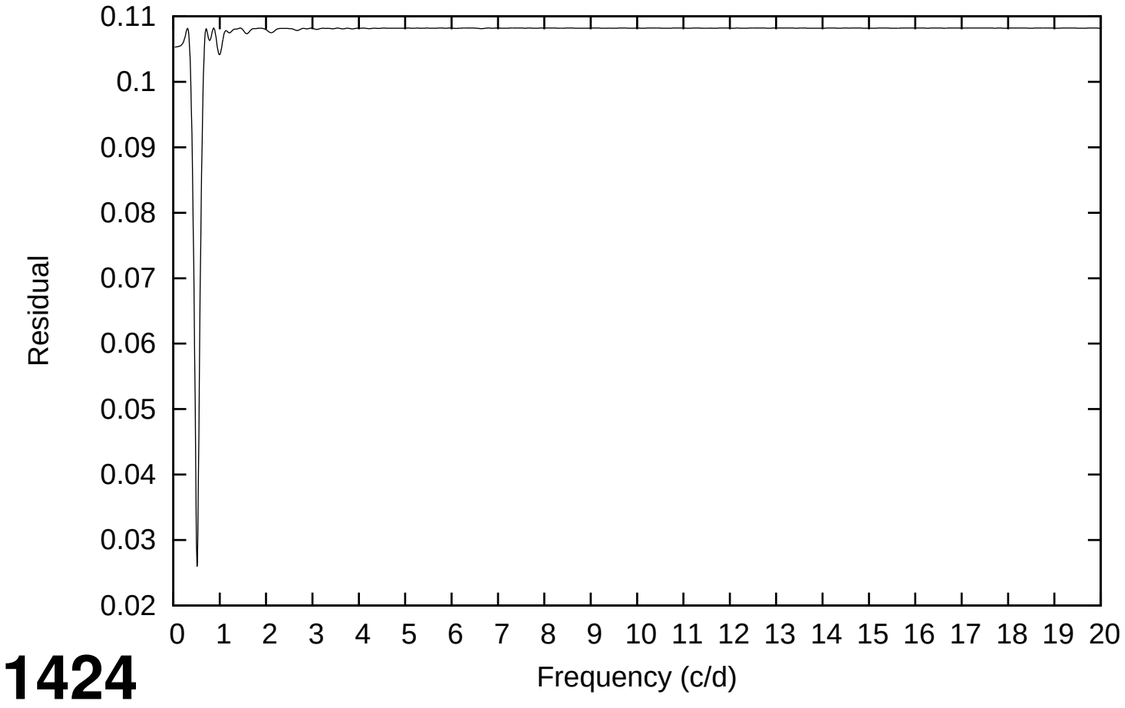

Residual
Frequency (c/d)
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

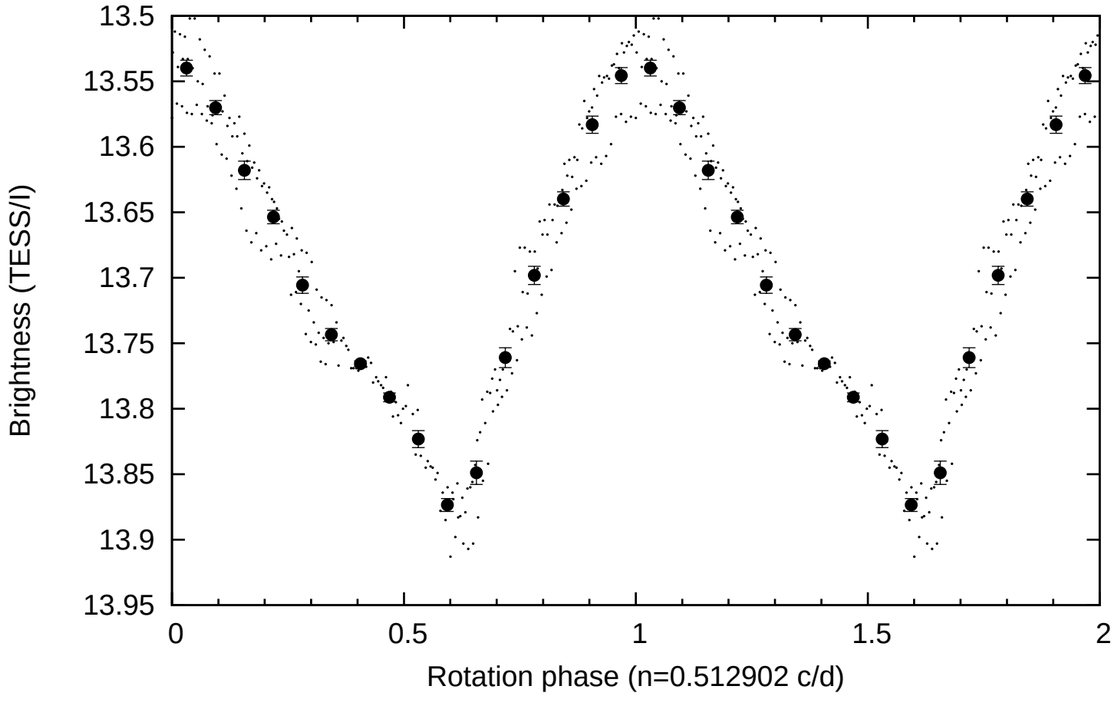

Brightness (TESS/I)
Rotation phase (n=1.54698 c/d)
13.4
13.45
13.5
13.55
13.6
13.65
13.7
13.75
13.8
13.85
13.9
13.95
0
0.5
1
1.5
2

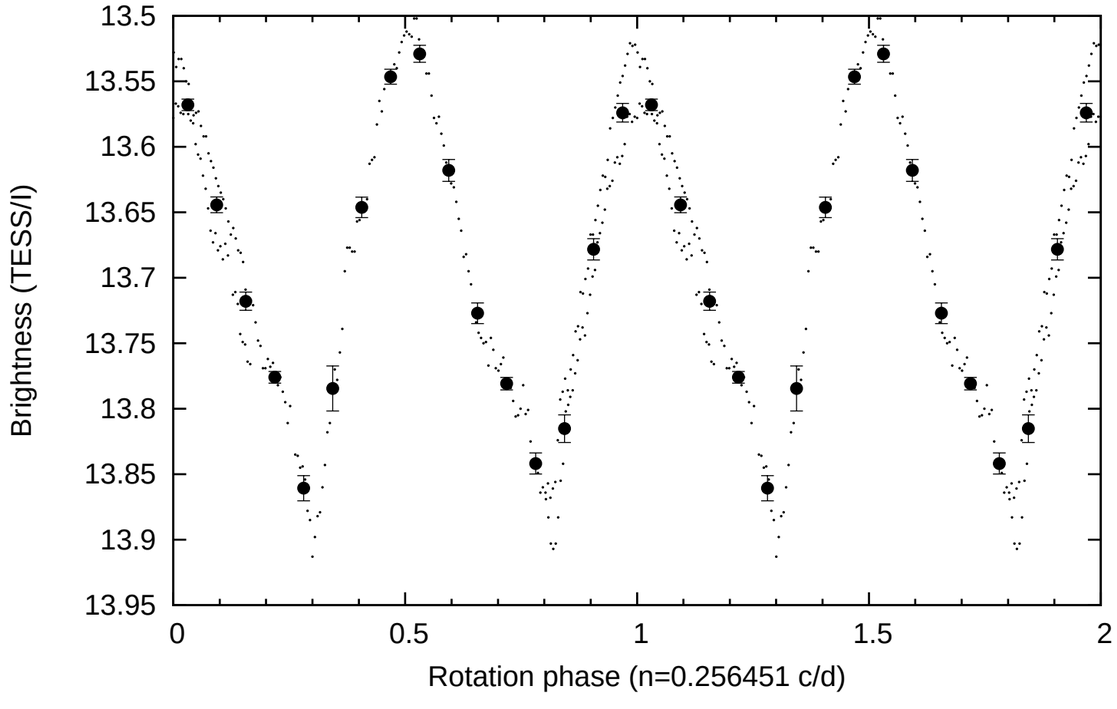

Brightness (TESS/I)
Rotation phase (n=0.77349 c/d)
13.4
13.45
13.5
13.55
13.6
13.65
13.7
13.75
13.8
13.85
13.9
13.95
0
0.5
1
1.5
2

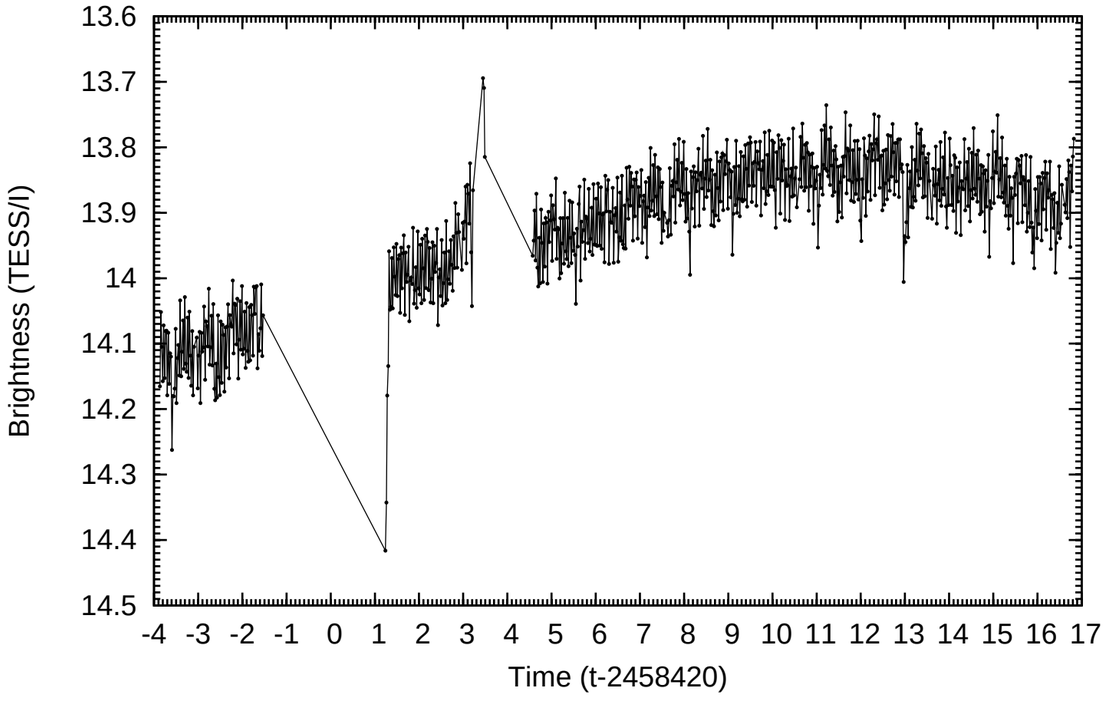
1424

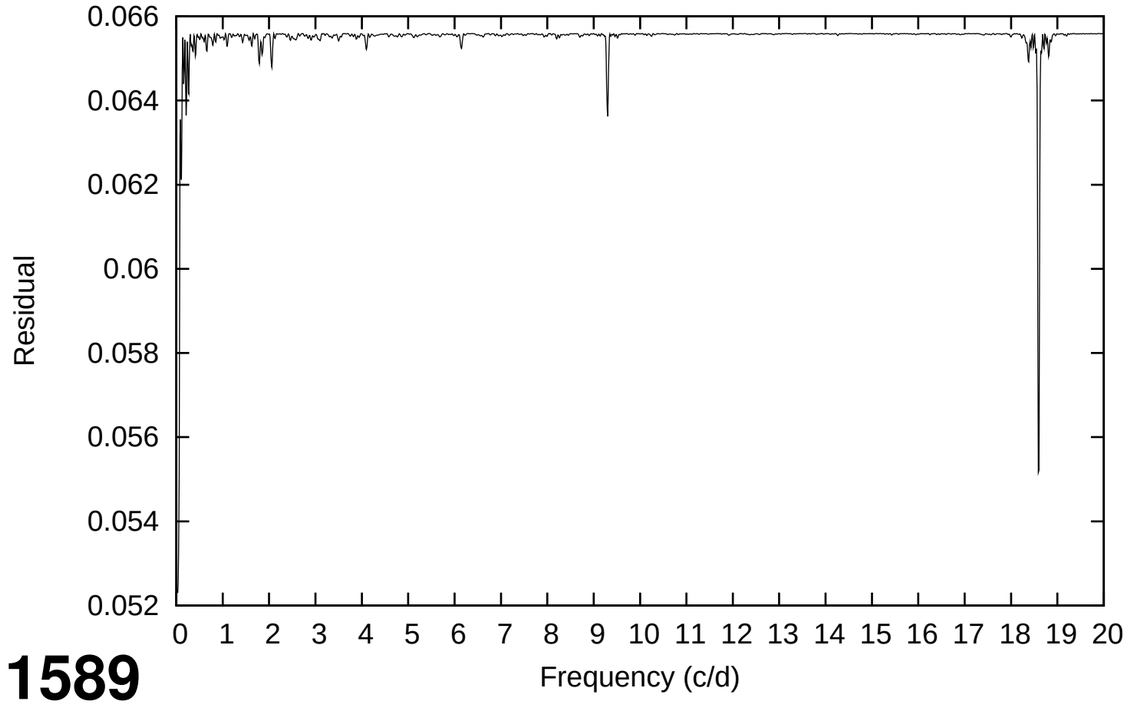

Brightness (TESS/I)
Time (t-2458670)


Residual
Frequency (c/d)

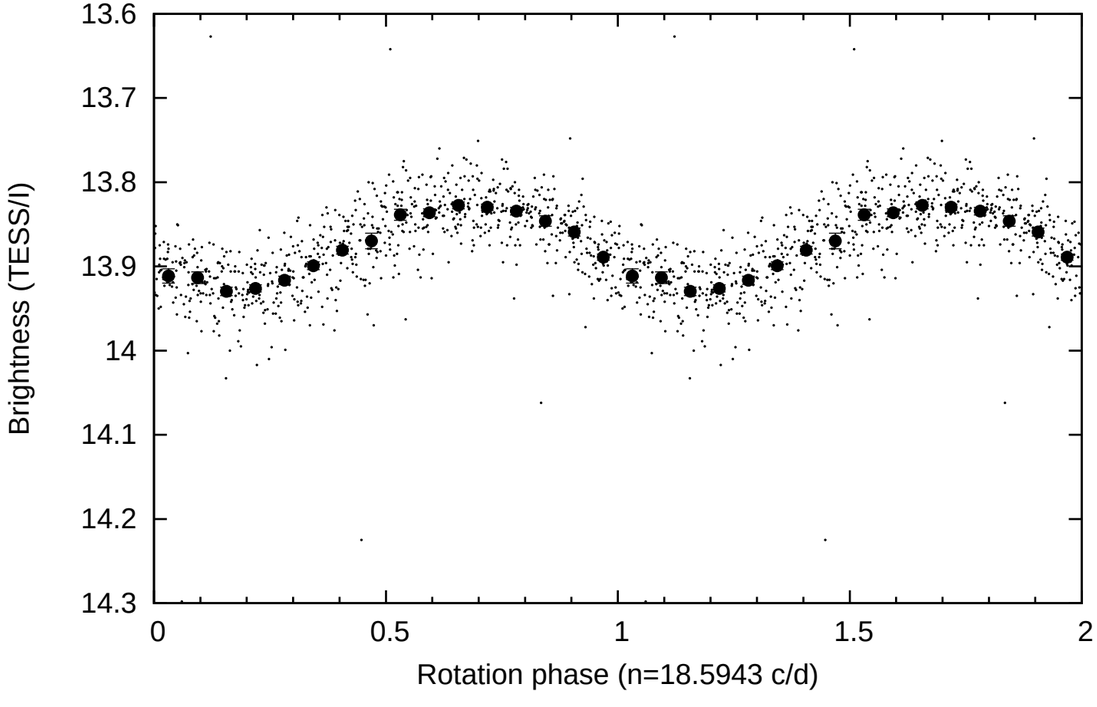

Brightness (TESS/I)
Rotation phase (n=0.512902 c/d)

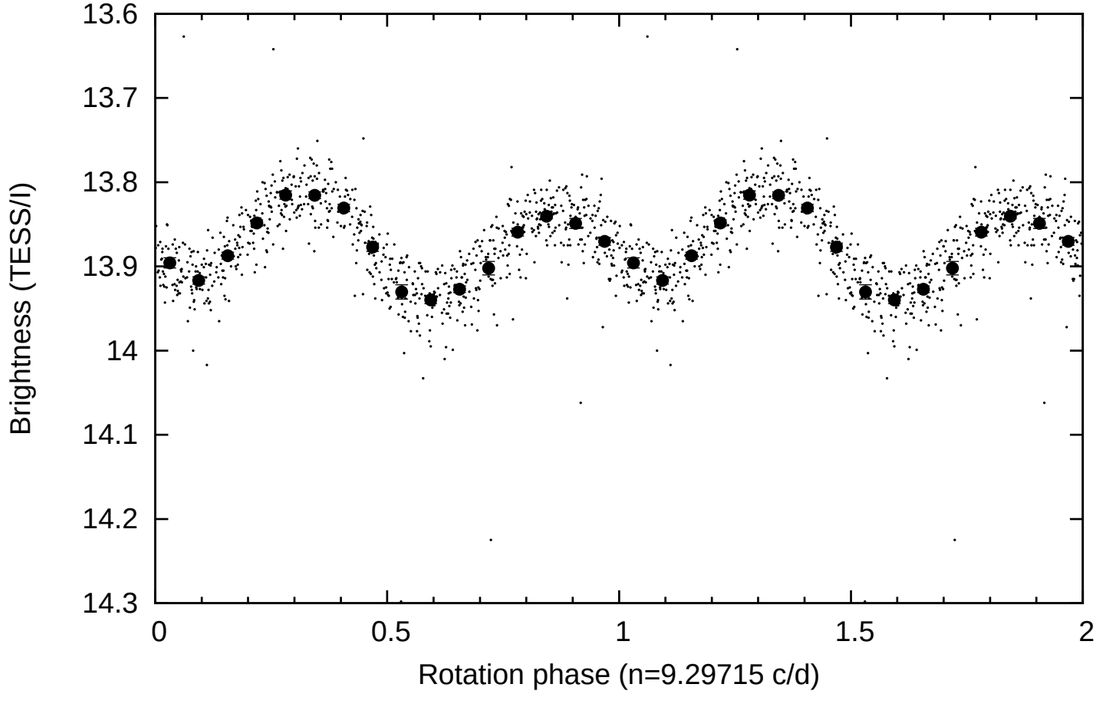

Brightness (TESS/I)
Rotation phase (n=0.256451 c/d)

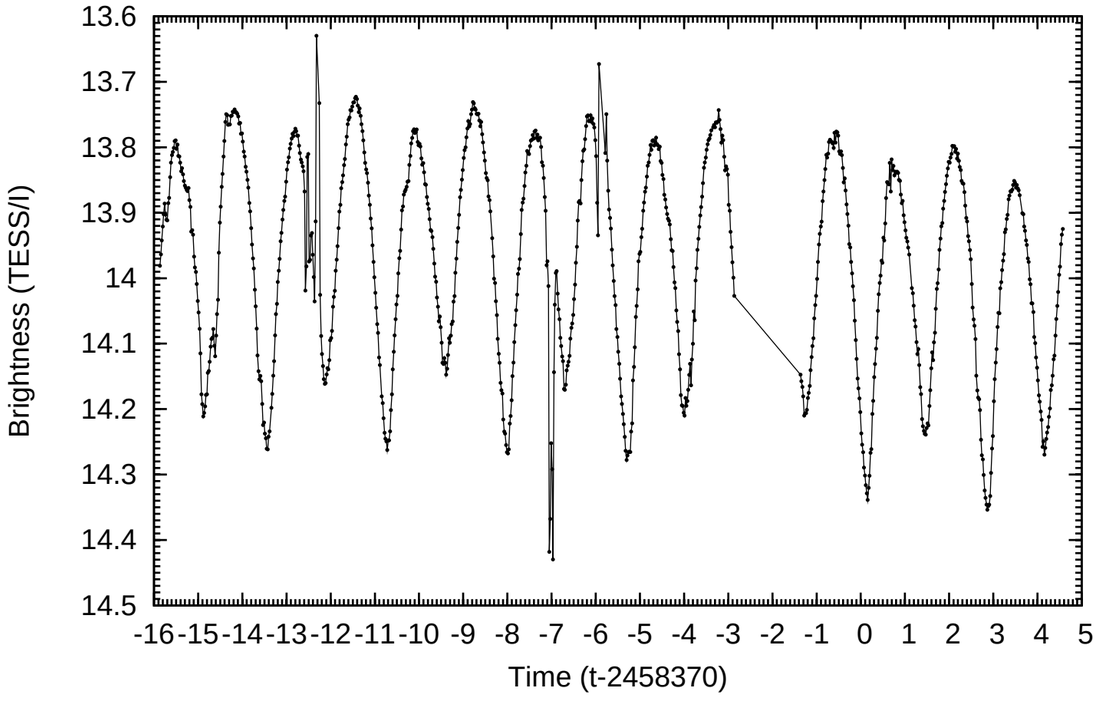

Brightness (TESS/I)
Time (t-2458420)

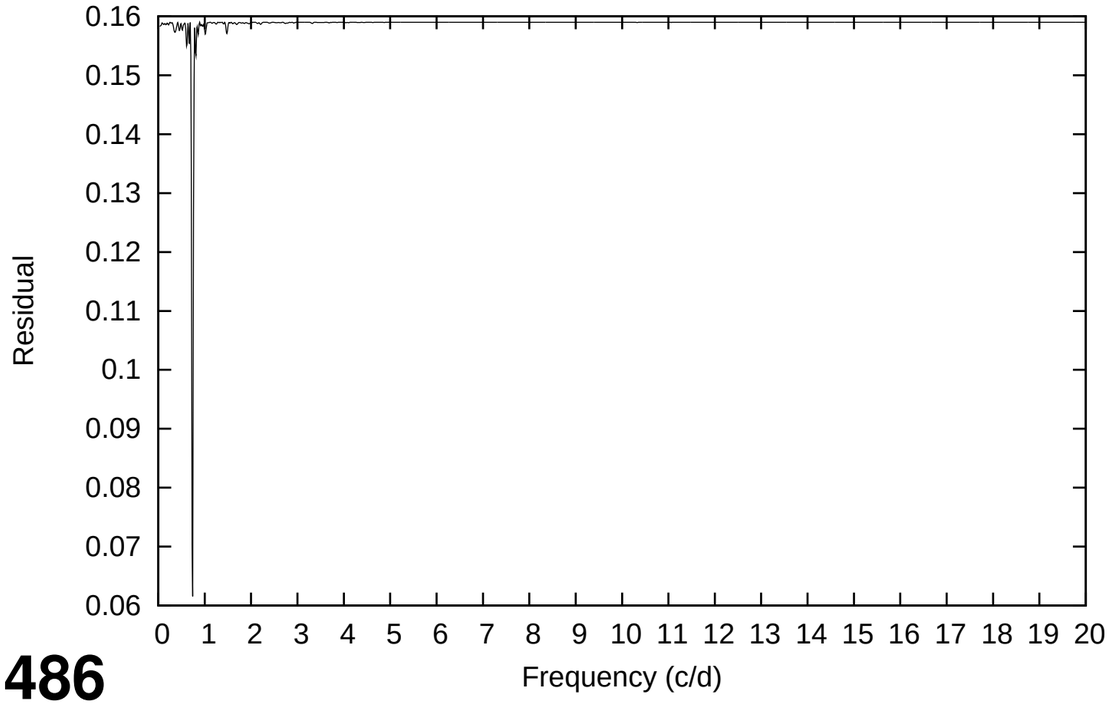

Residual
Frequency (c/d)

1589

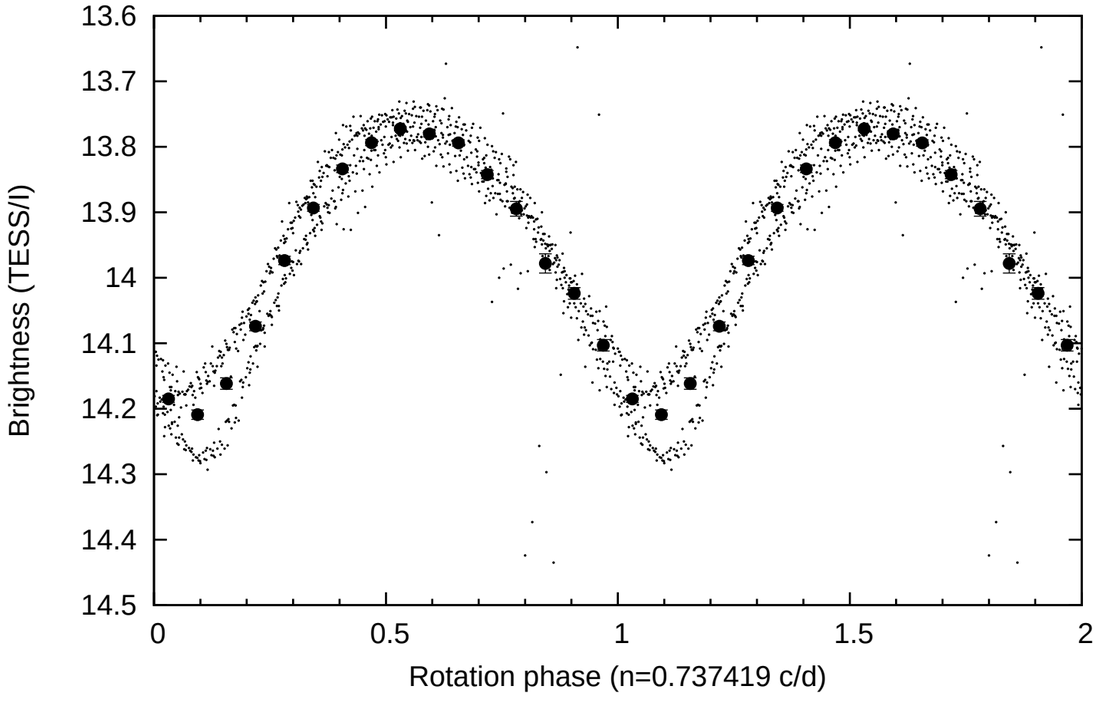

Brightness (TESS/I)
Rotation phase (n=18.5943 c/d)

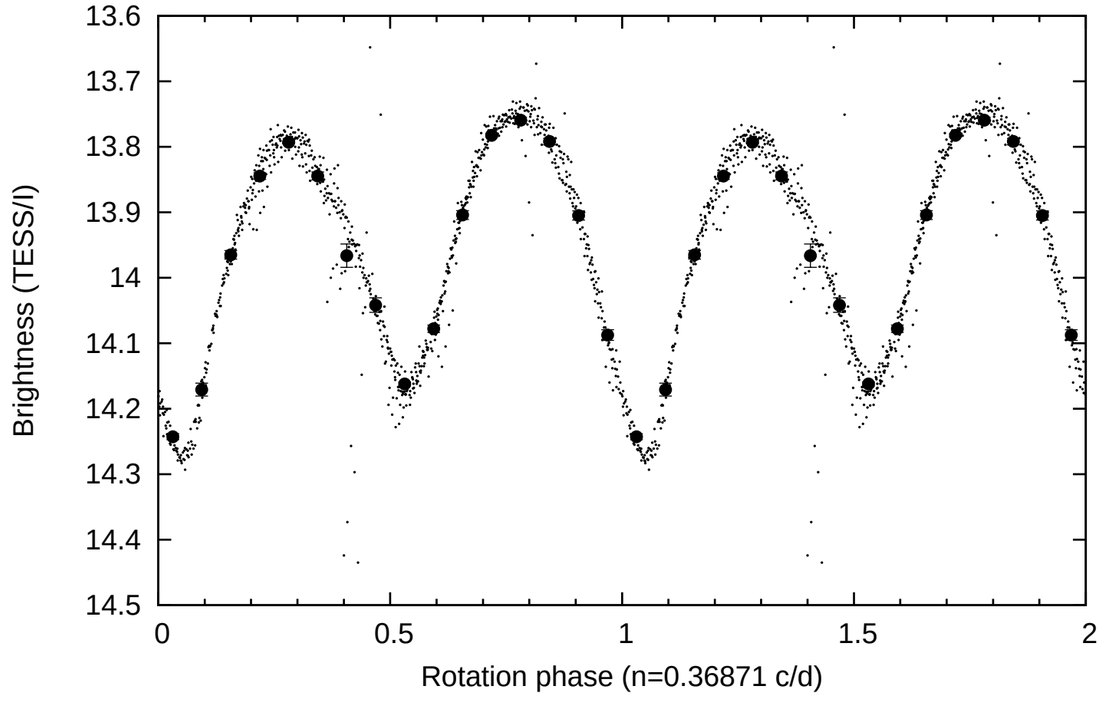

Brightness (TESS/I)
Rotation phase (n=9.29715 c/d)

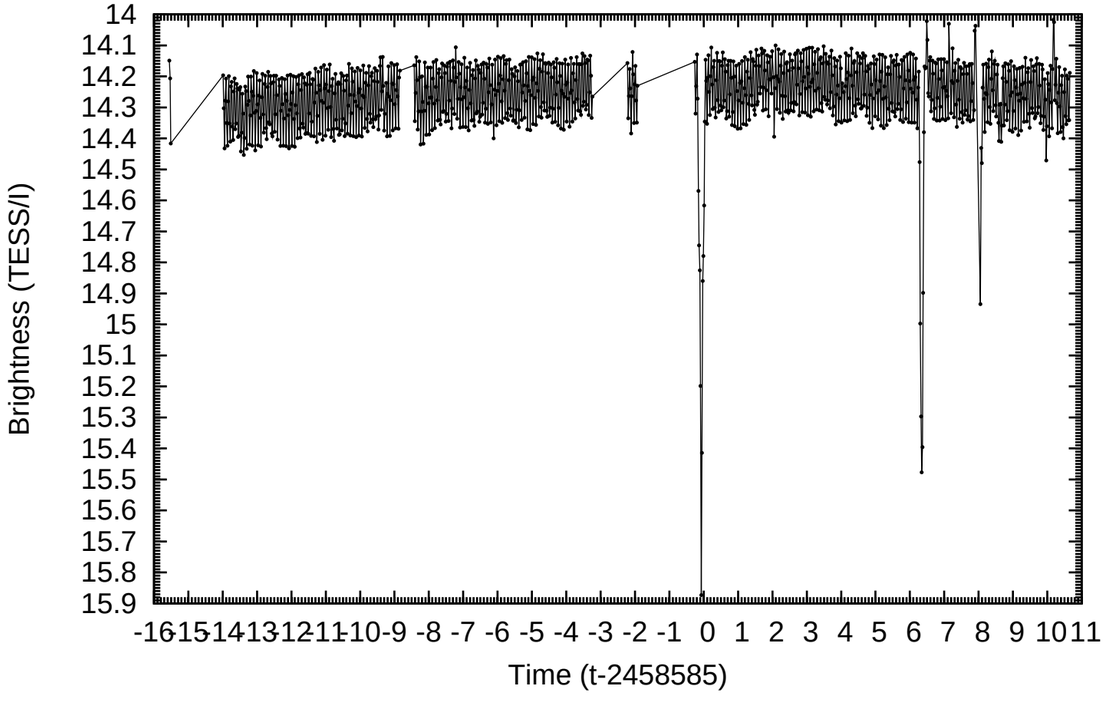

Brightness (TESS/I)
Time (t-2458370)

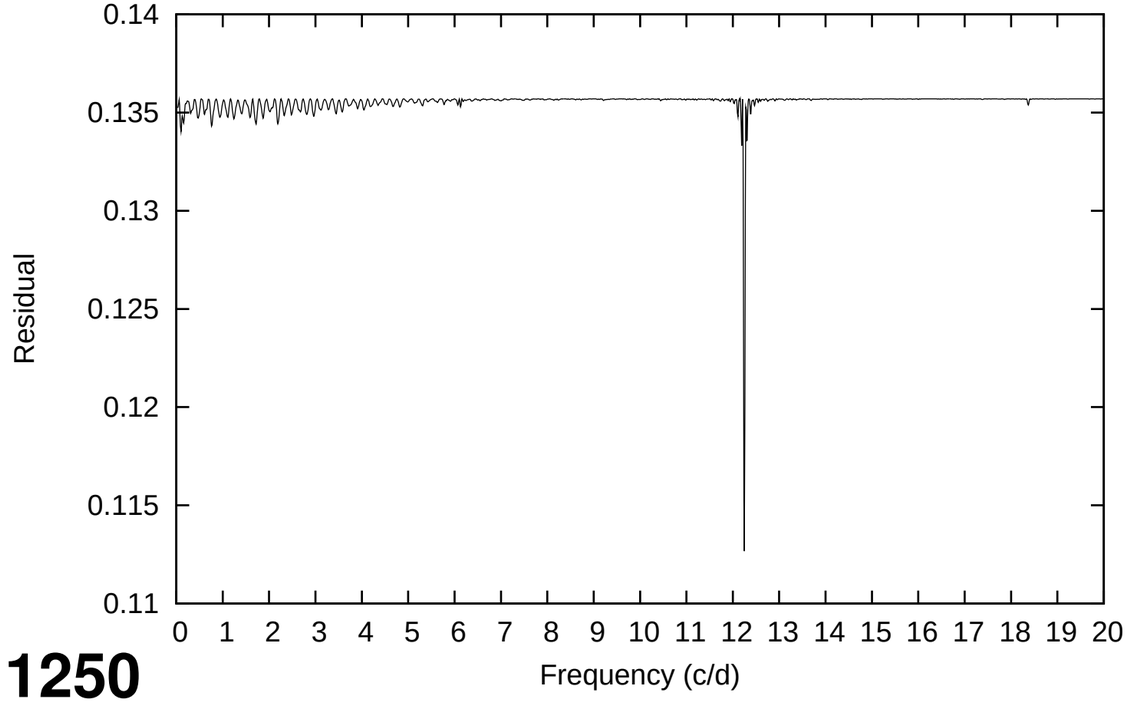

Residual
Frequency (c/d)

486

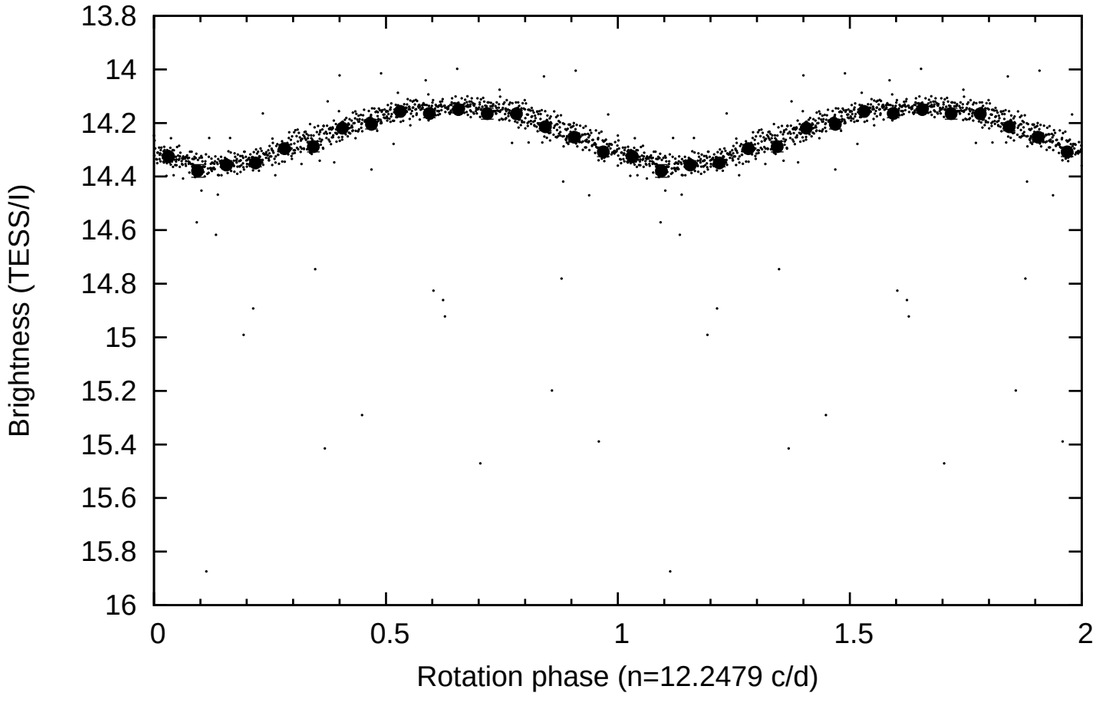

Brightness (TESS/I)
Rotation phase (n=0.737419 c/d)

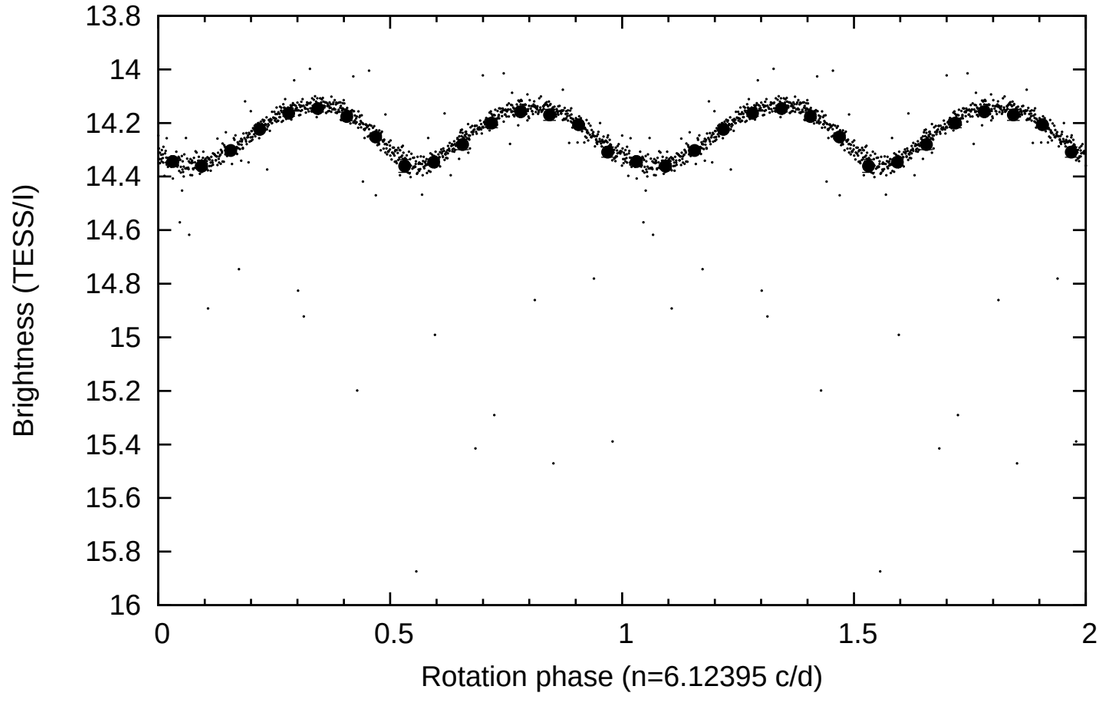

Brightness (TESS/I)
Rotation phase (n=0.36871 c/d)

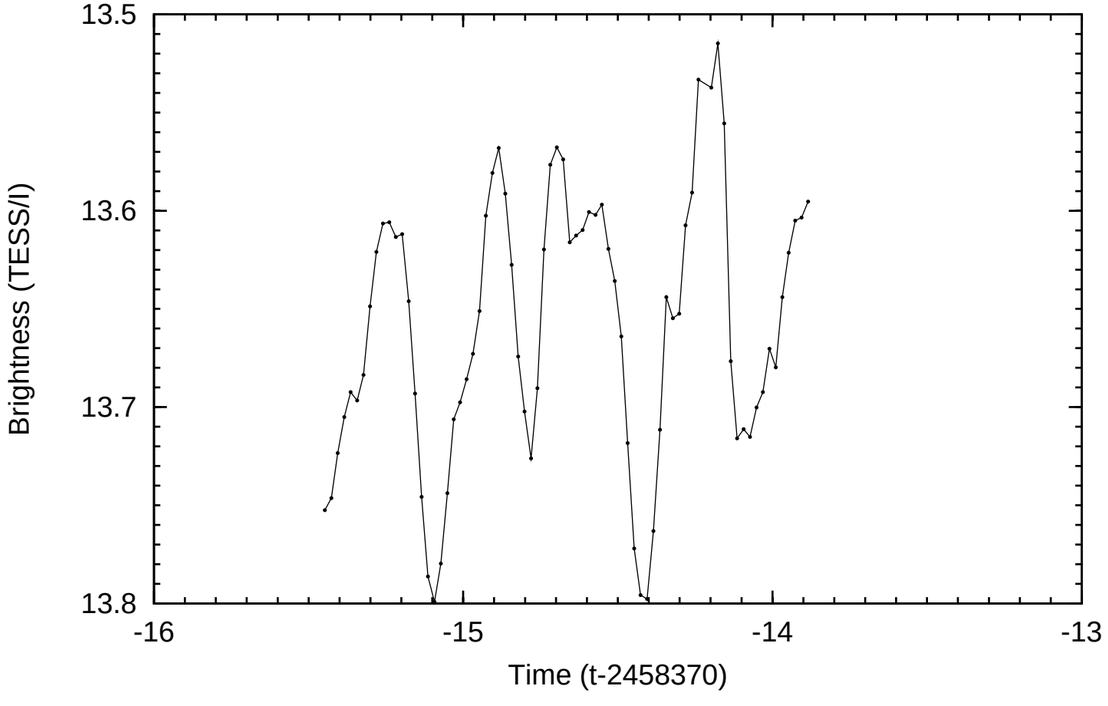

Brightness (TESS/I)
Time (t-2458585)

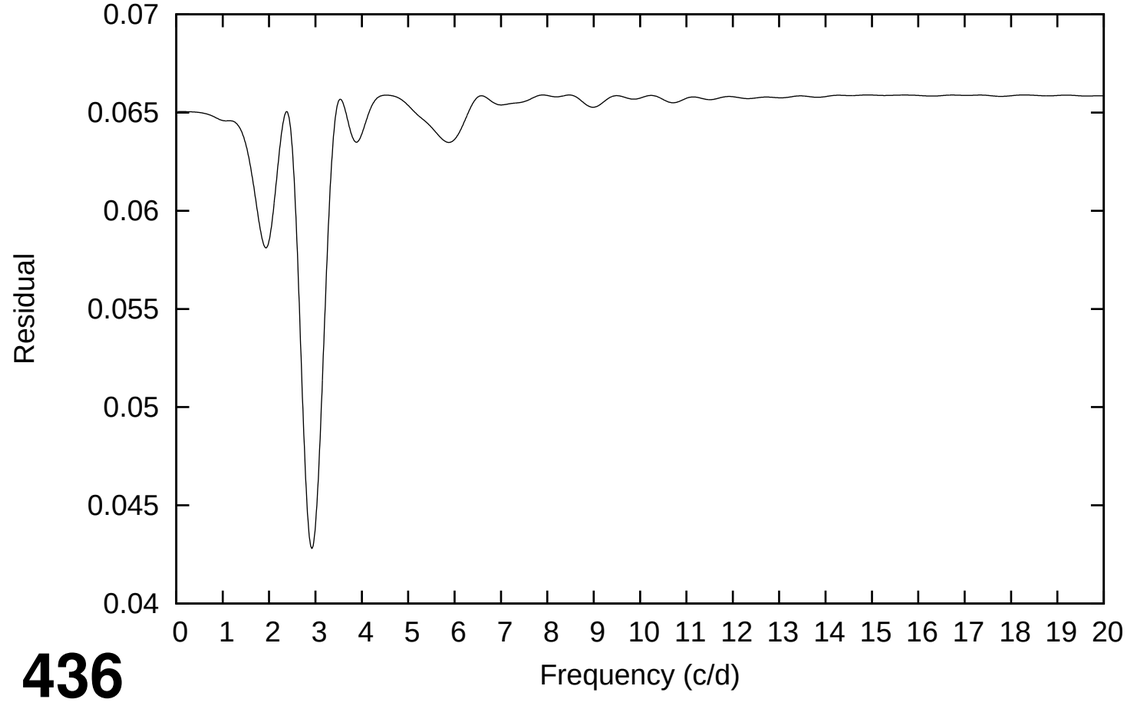

Residual
Frequency (c/d)

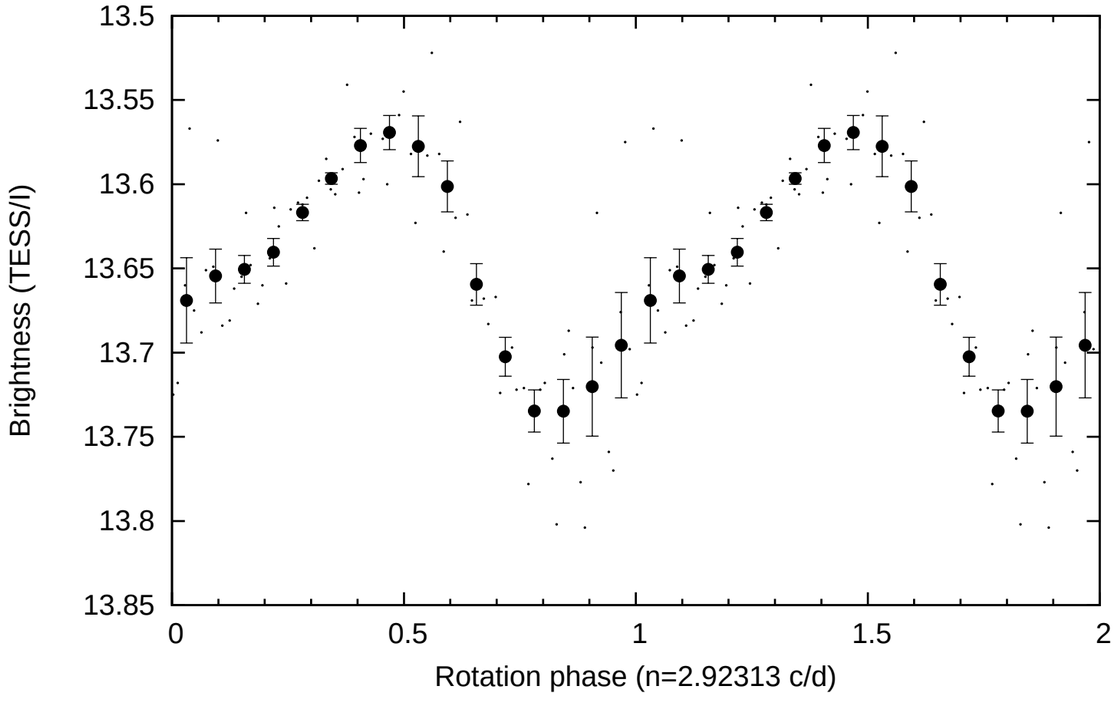
1250

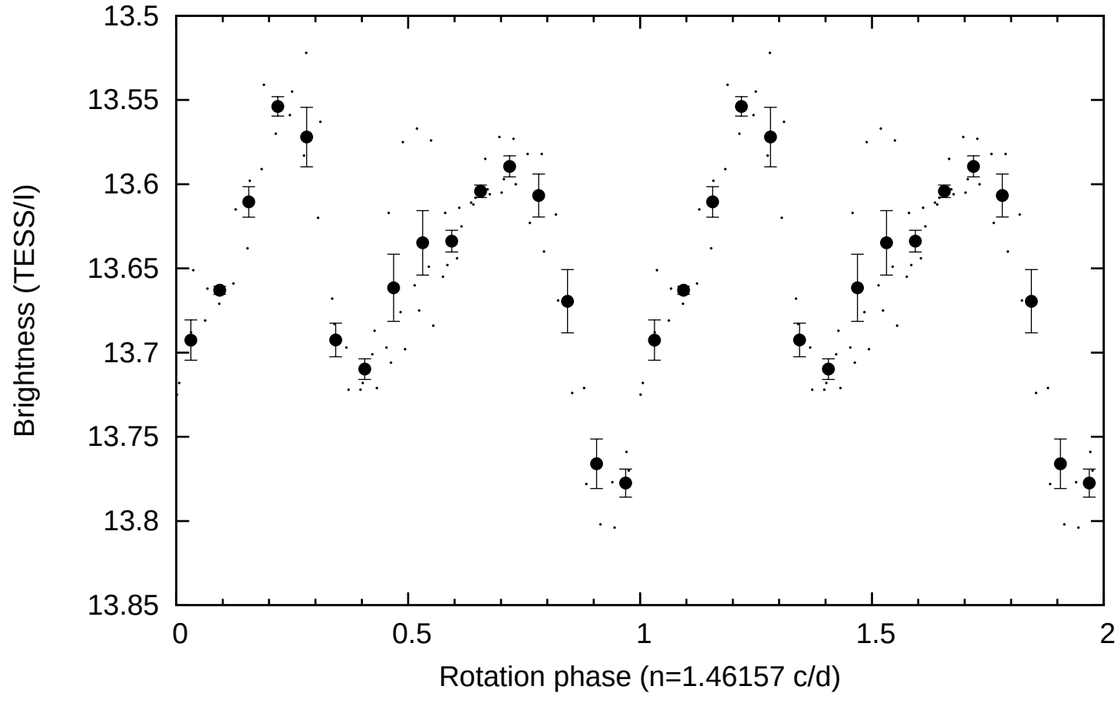

Brightness (TESS/I)
Rotation phase (n=12.2479 c/d)

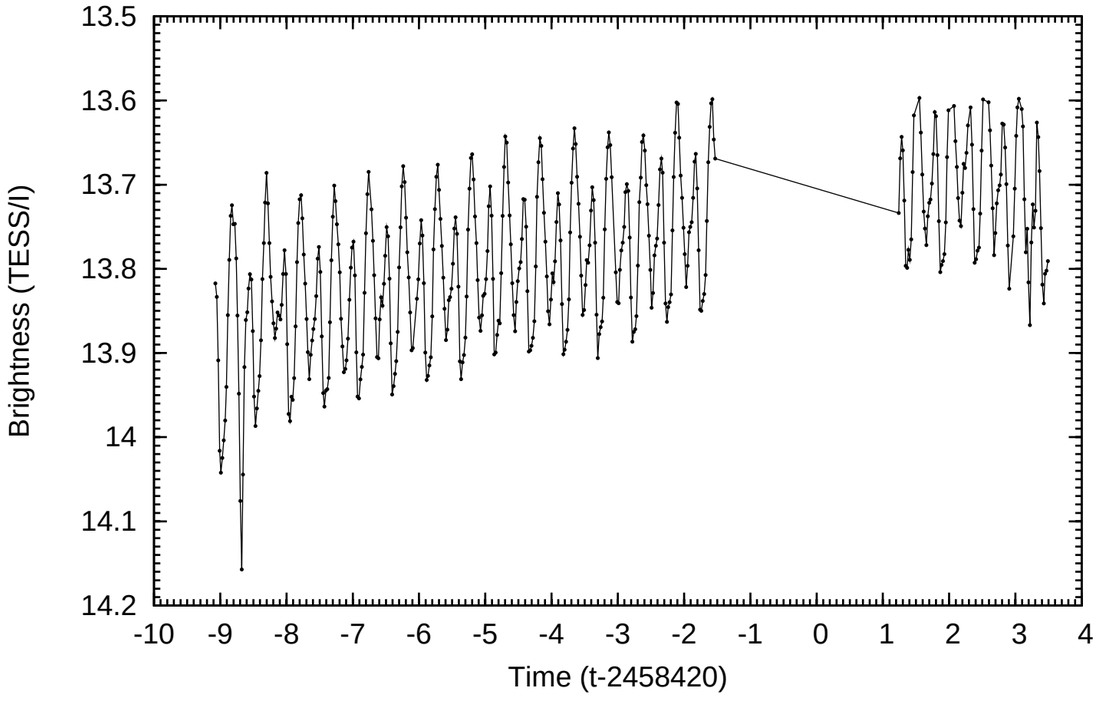

Brightness (TESS/I)
Rotation phase (n=6.12395 c/d)

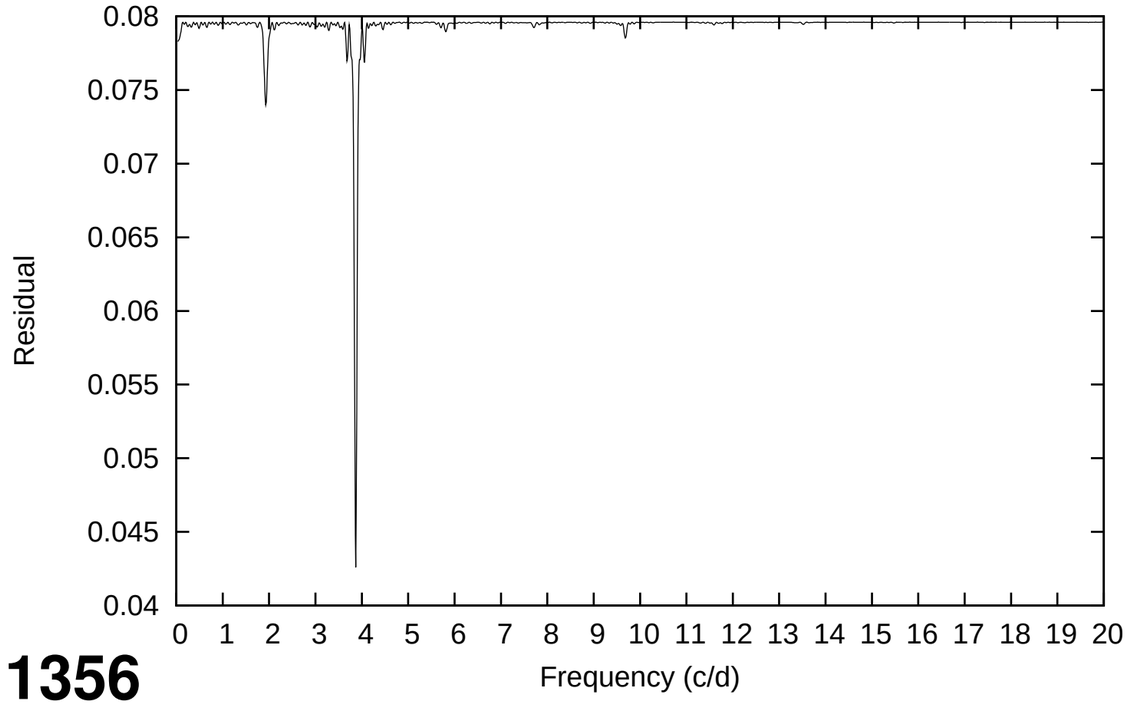

13.5
13.6
13.7
13.8
Brightness (TESS/I)
-16
-15
-14
-13
Time (t-2458370)


0.07
0.065
0.06
0.055
0.05
0.045
0.04
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

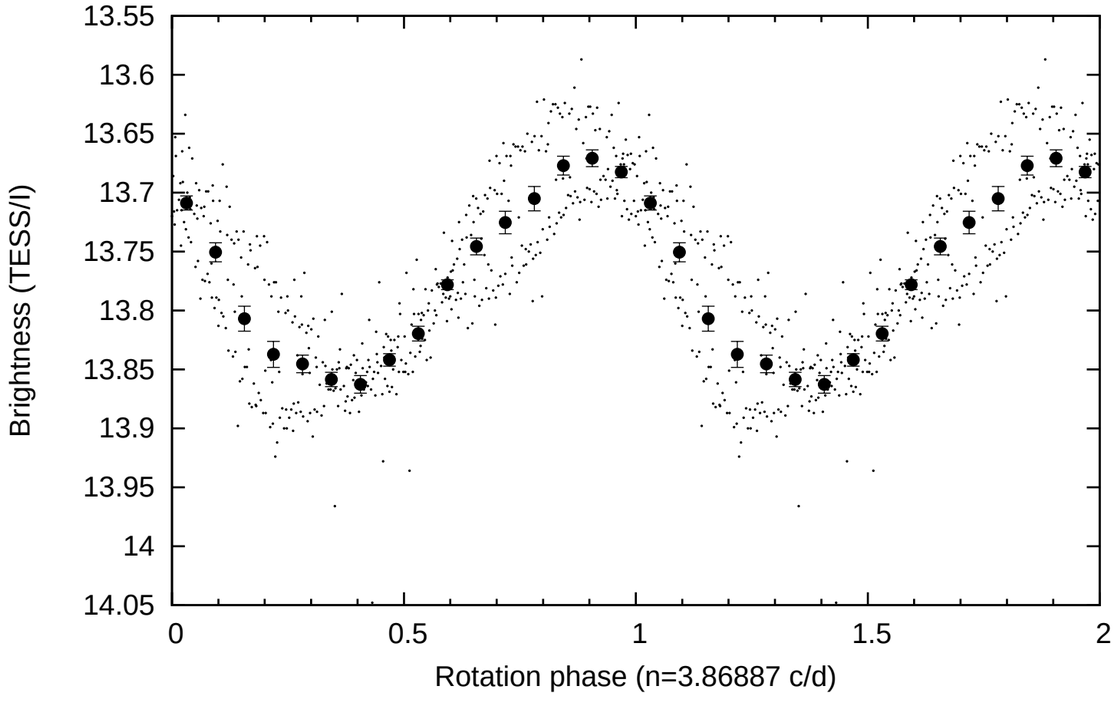

13.5
13.55
13.6
13.65
13.7
13.75
13.8
13.85
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=2.92313 c/d)

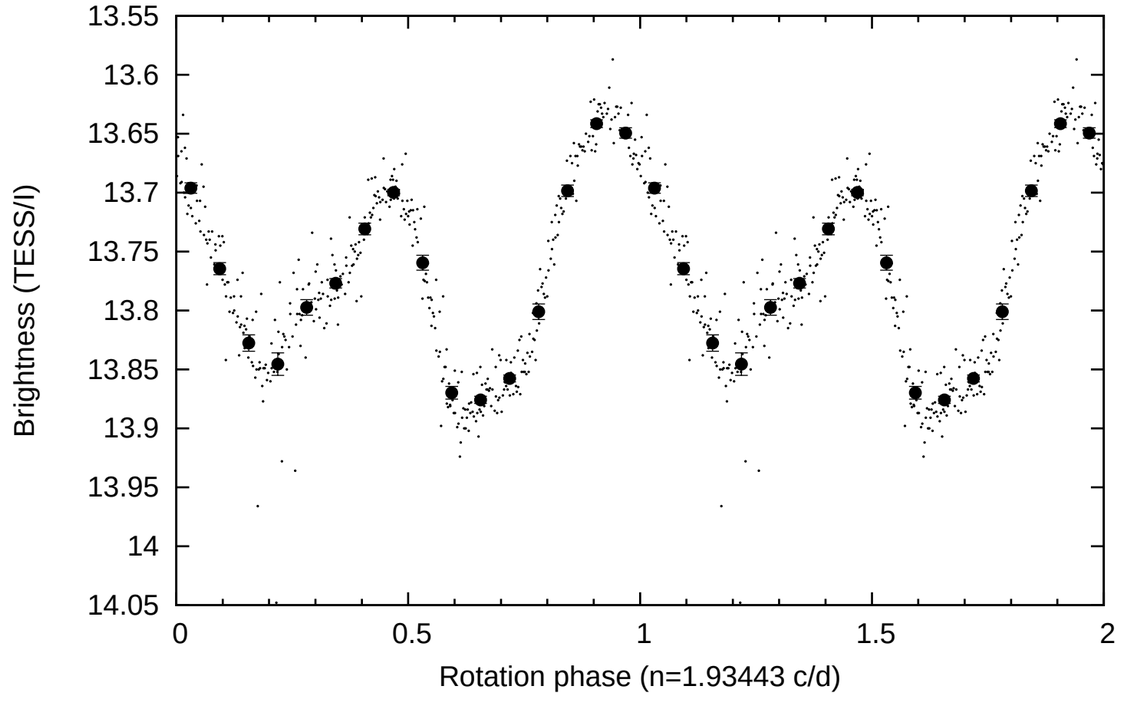

13.5
13.55
13.6
13.65
13.7
13.75
13.8
13.85
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=1.46157 c/d)

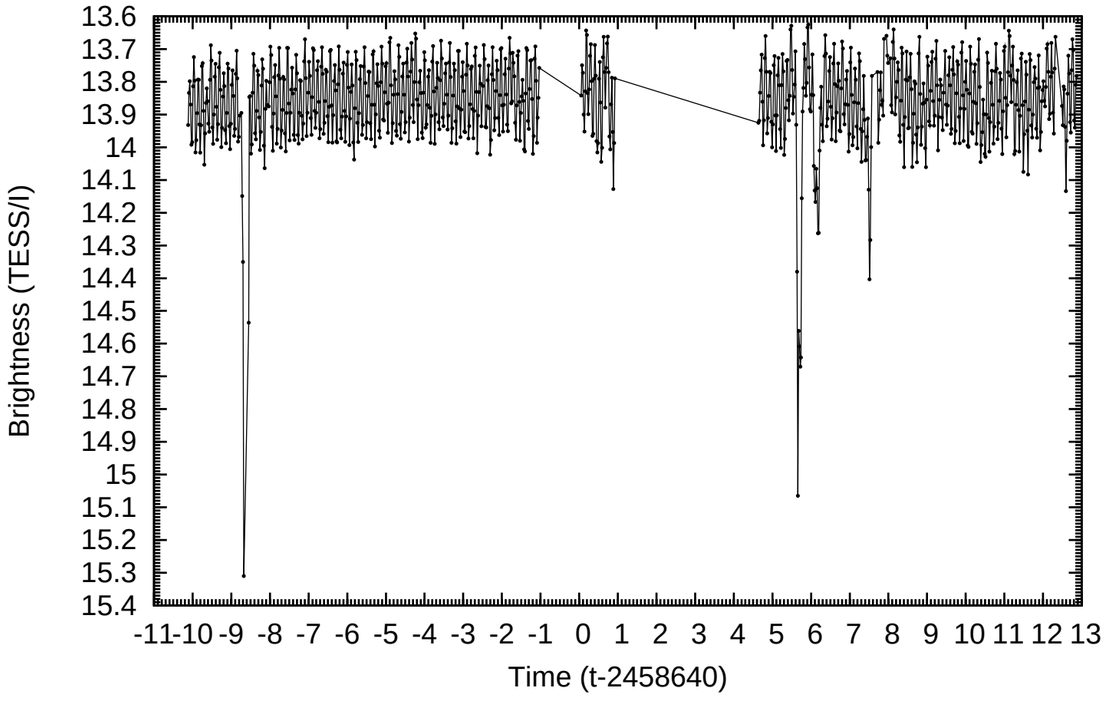

Brightness (TESS/I)
Time (t-2458420)

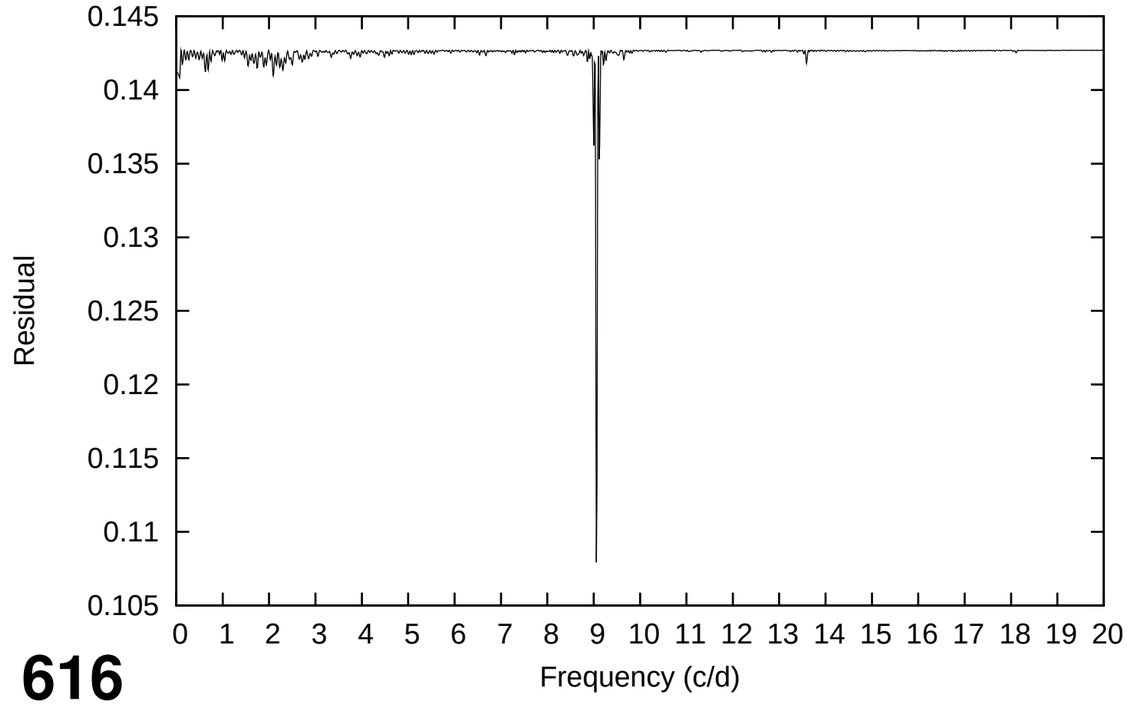

Residual
Frequency (c/d)

1356

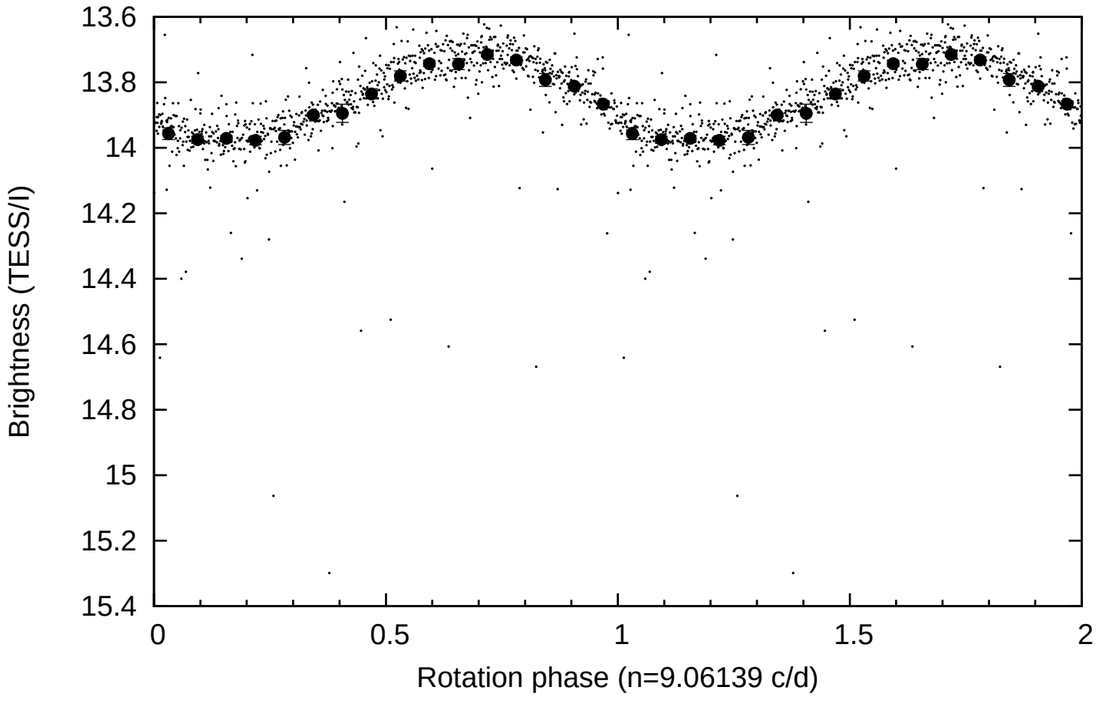

Brightness (TESS/I)
Rotation phase (n=3.86887 c/d)

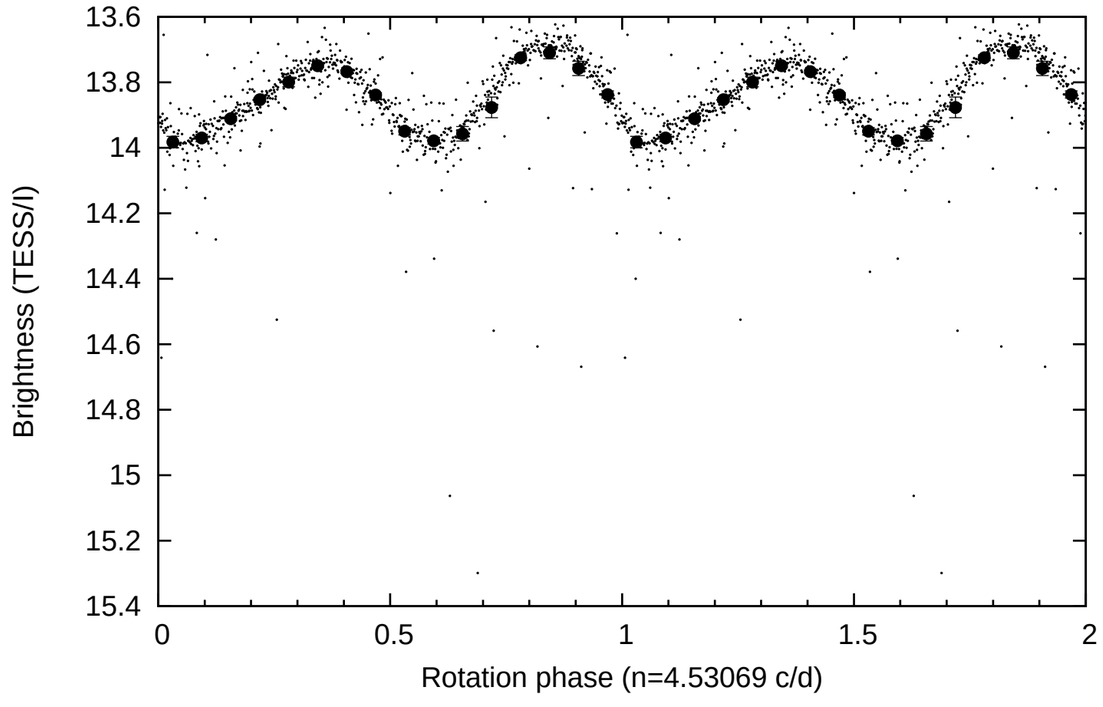

Brightness (TESS/I)
Rotation phase (n=1.93443 c/d)

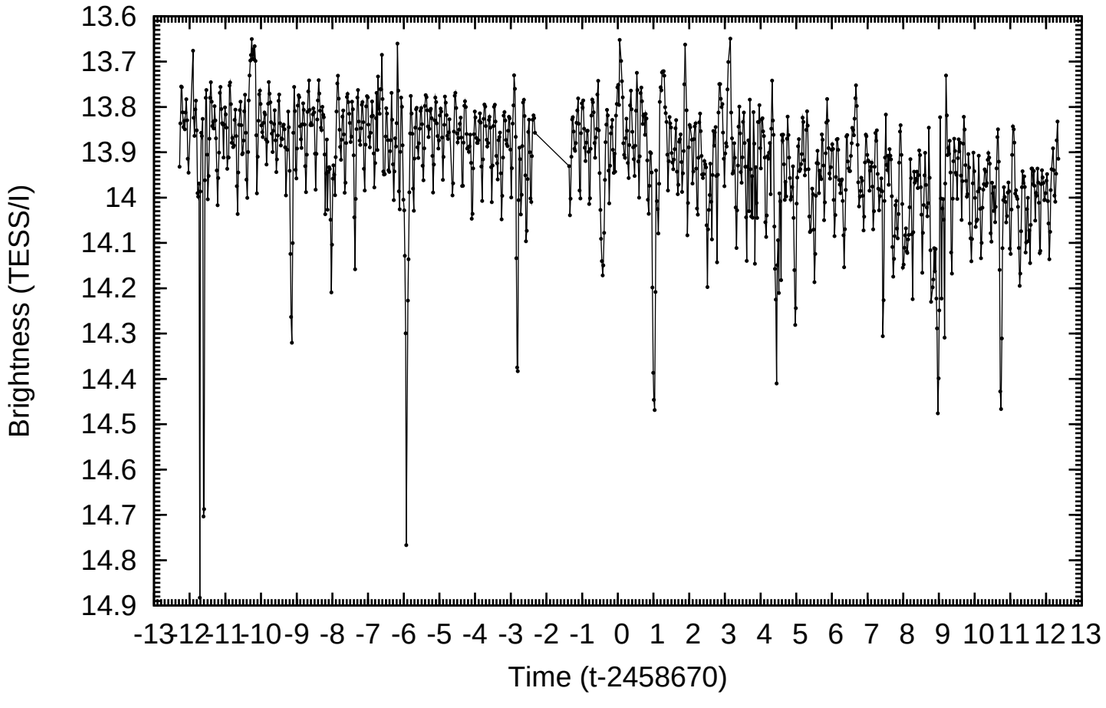

Brightness (TESS/I)
Time (t-2458640)

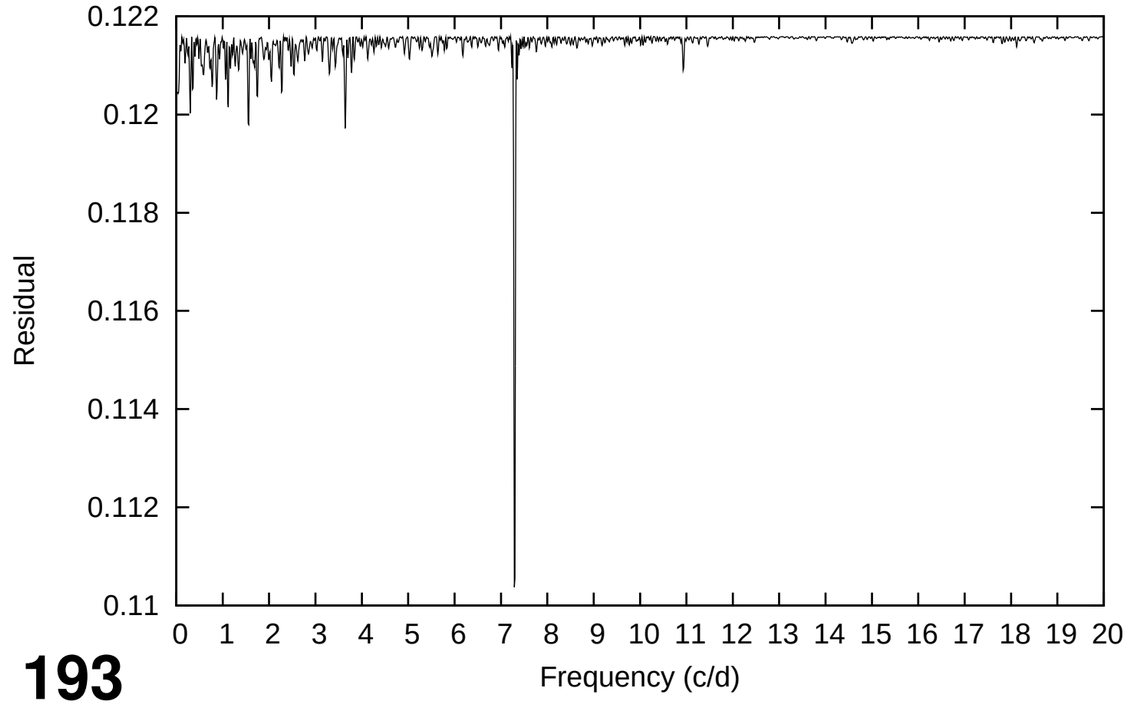

Residual
Frequency (c/d)

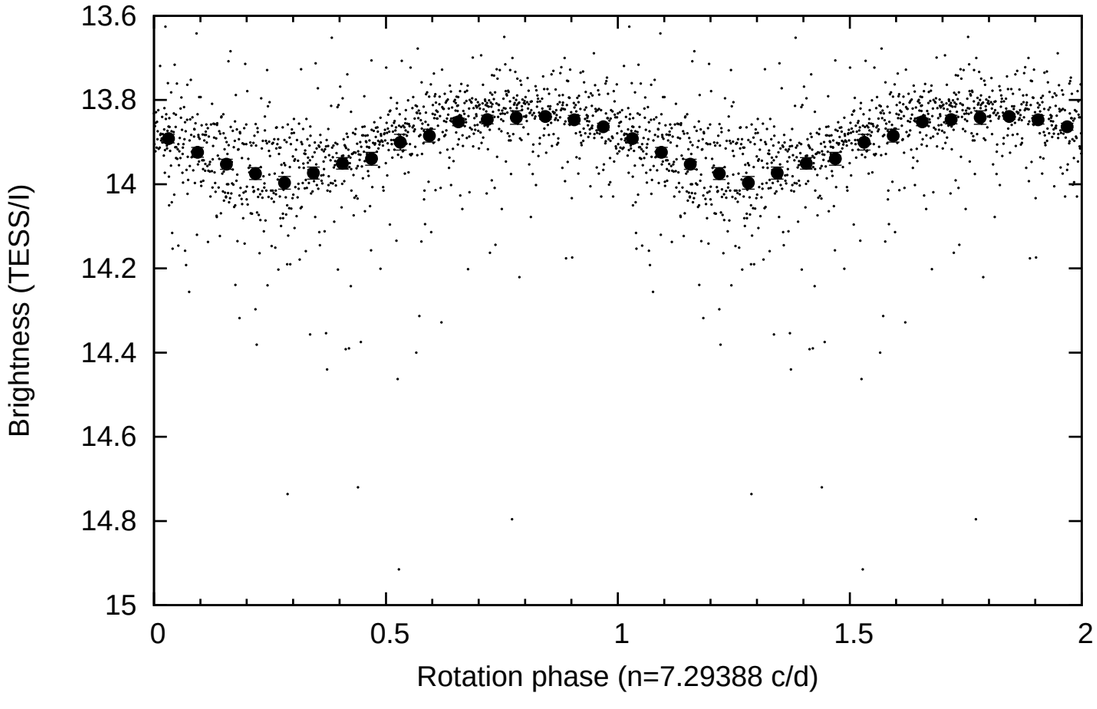
616

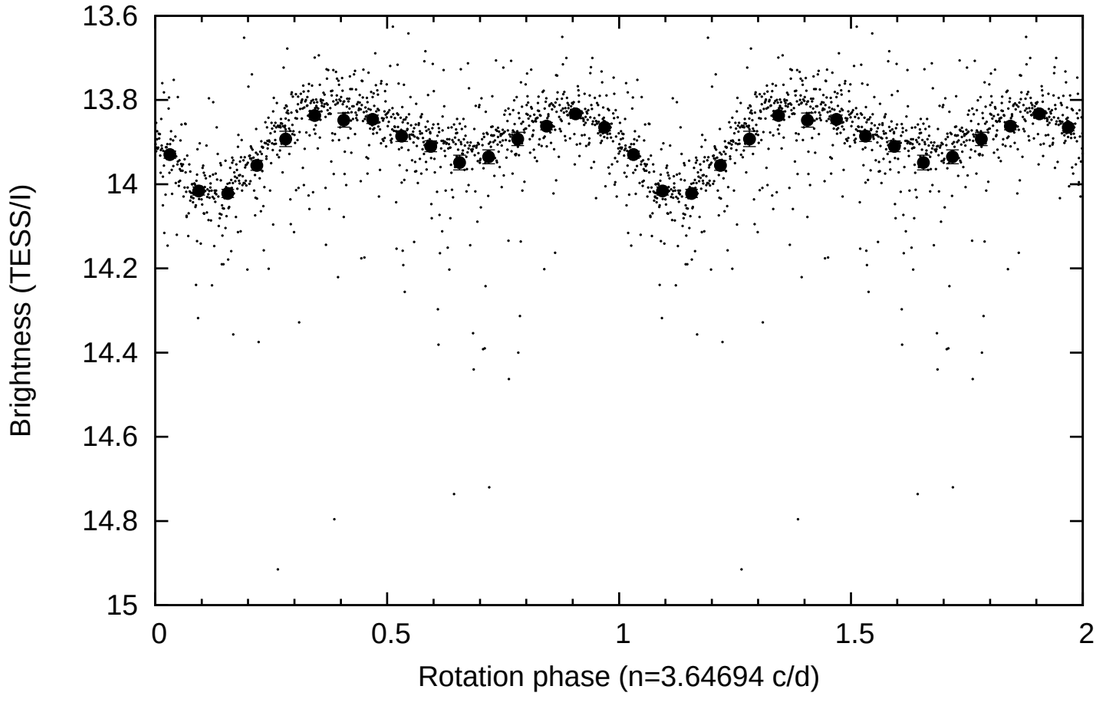

Brightness (TESS/I)
Rotation phase (n=9.06139 c/d)

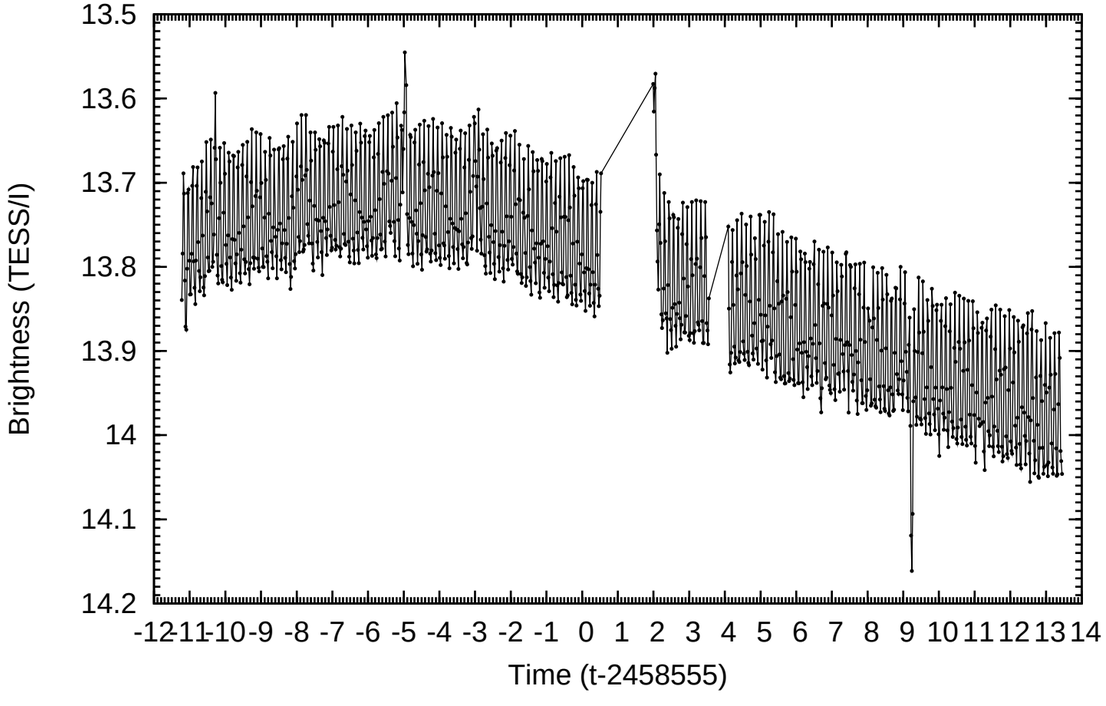

Brightness (TESS/I)
Rotation phase (n=4.53069 c/d)

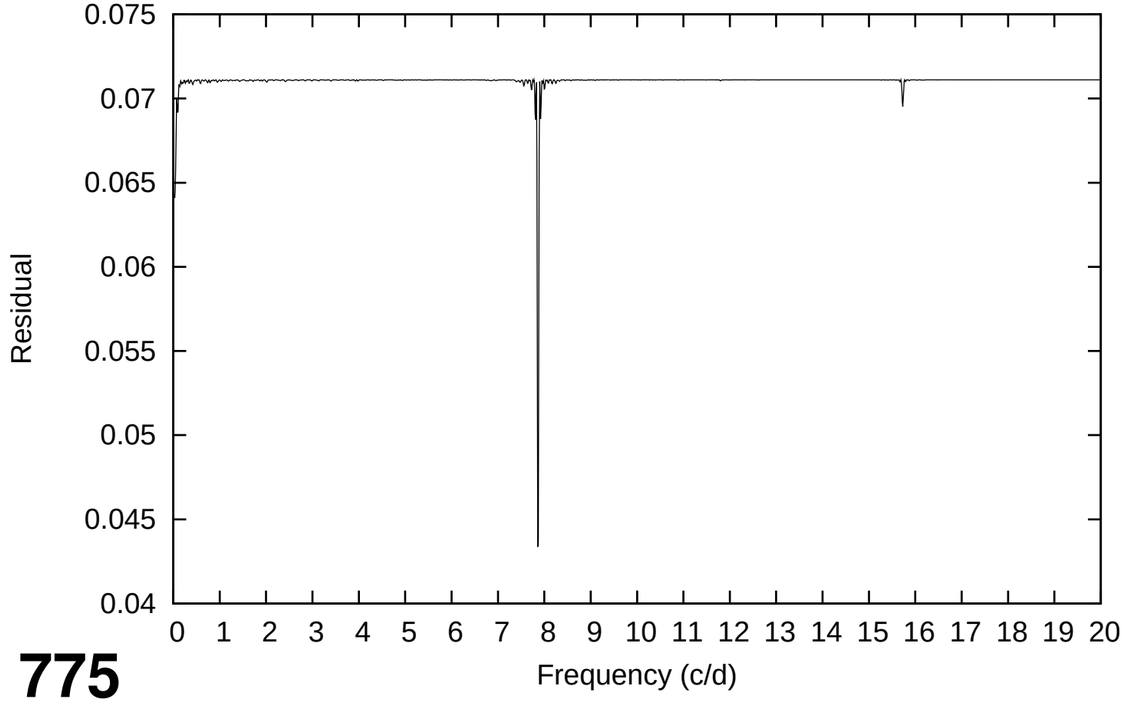

Brightness (TESS/I)
Time (t-2458670)


Residual
Frequency (c/d)

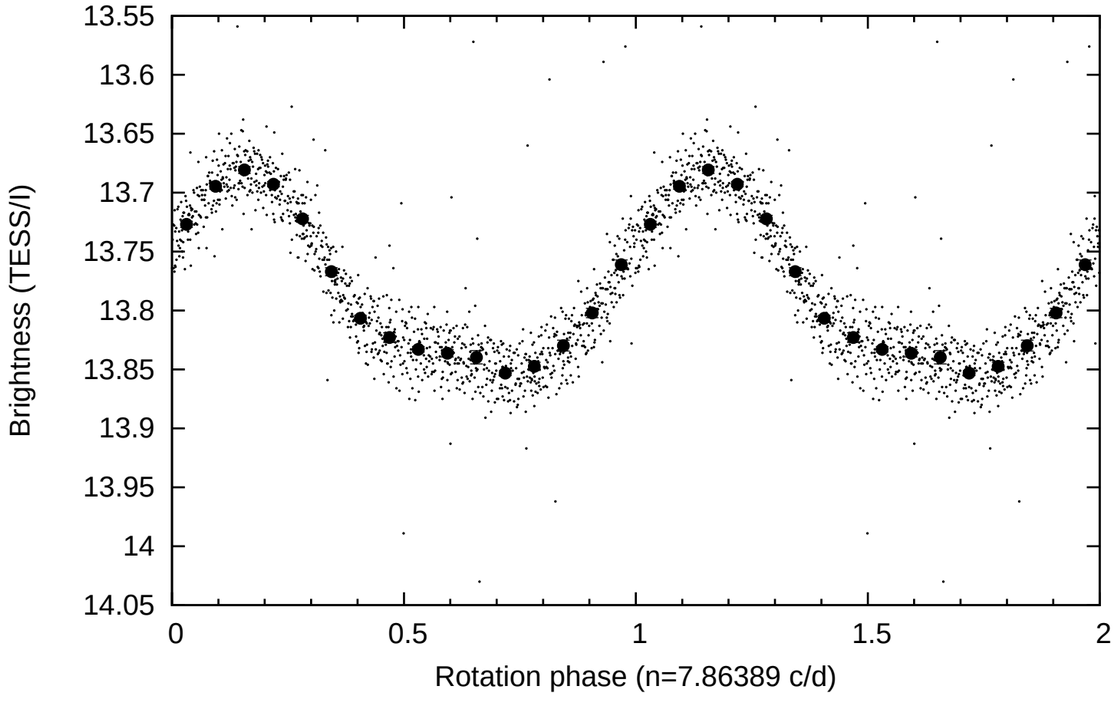

Brightness (TESS/I)
Rotation phase (n=7.29388 c/d)

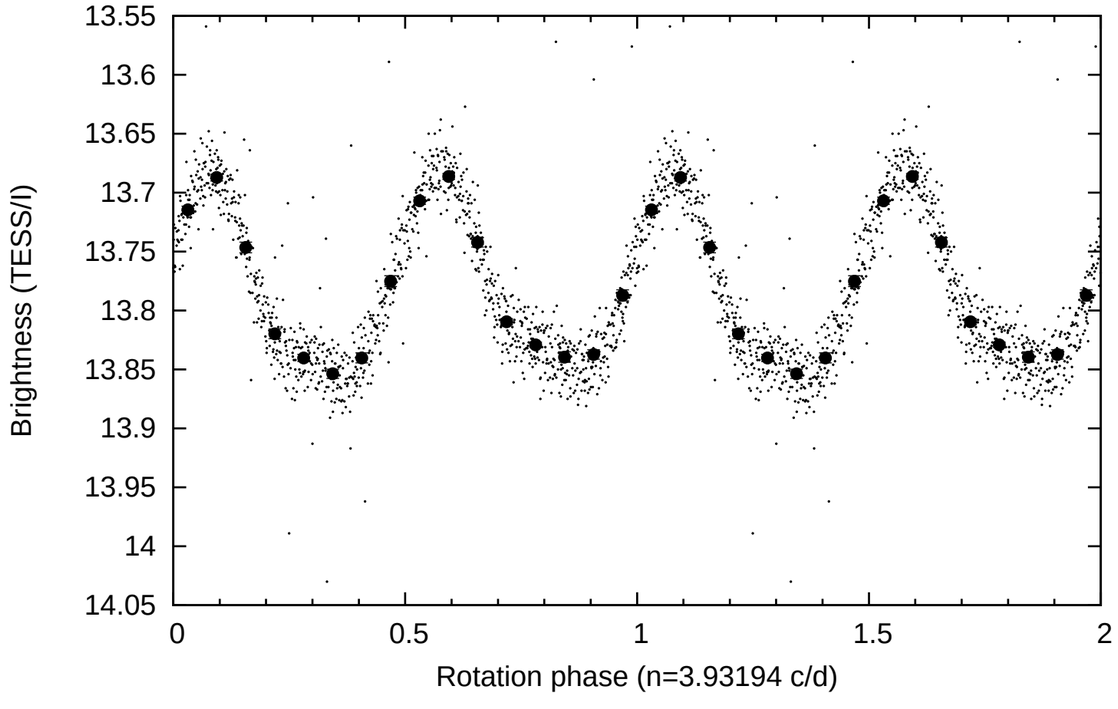

Brightness (TESS/I)
Rotation phase (n=3.64694 c/d)


Brightness (TESS/I)
Time (t-2458555)

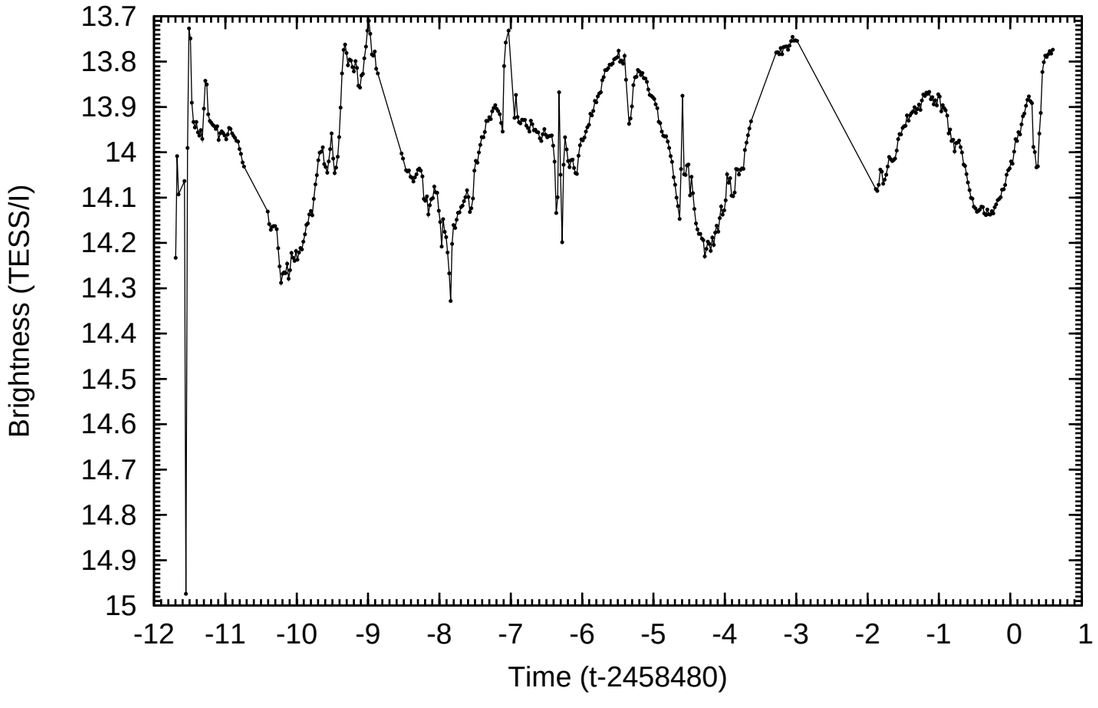

Residual
Frequency (c/d)

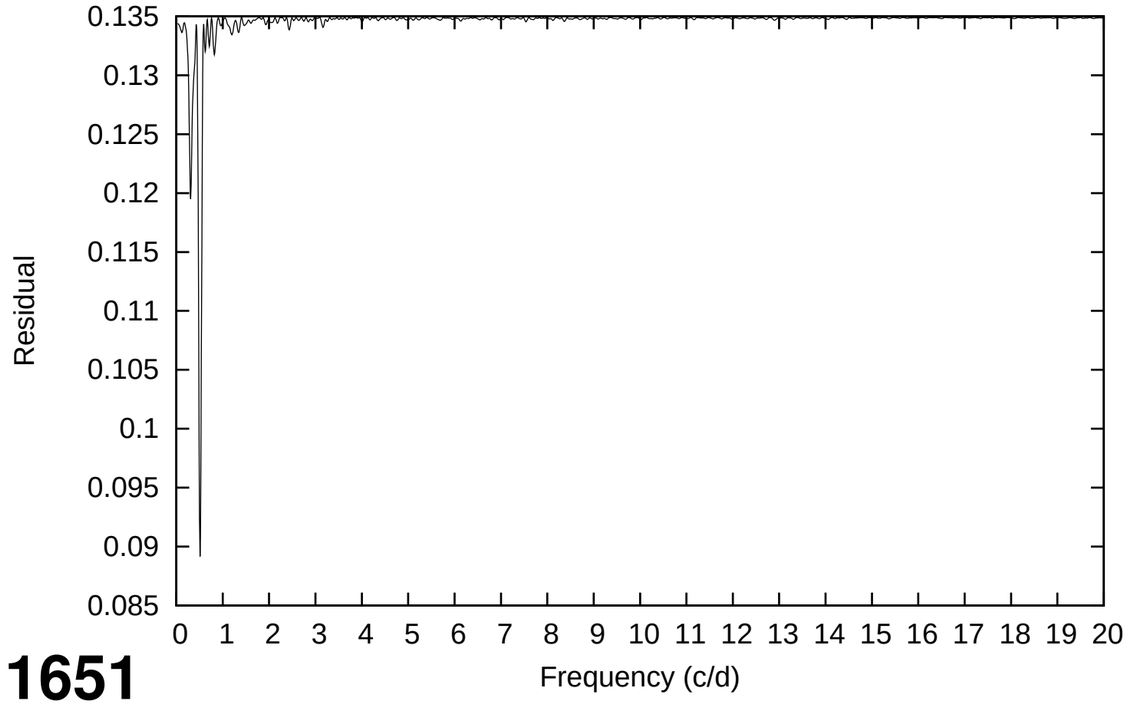
775

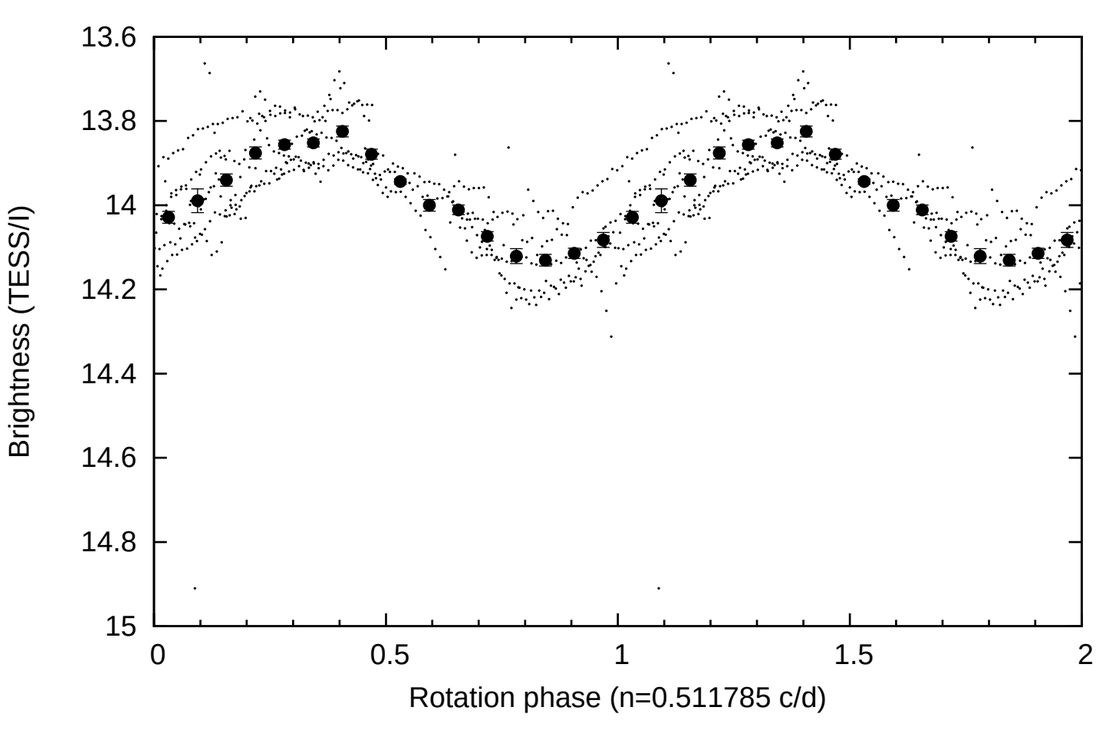

Brightness (TESS/I)
Rotation phase (n=7.86389 c/d)

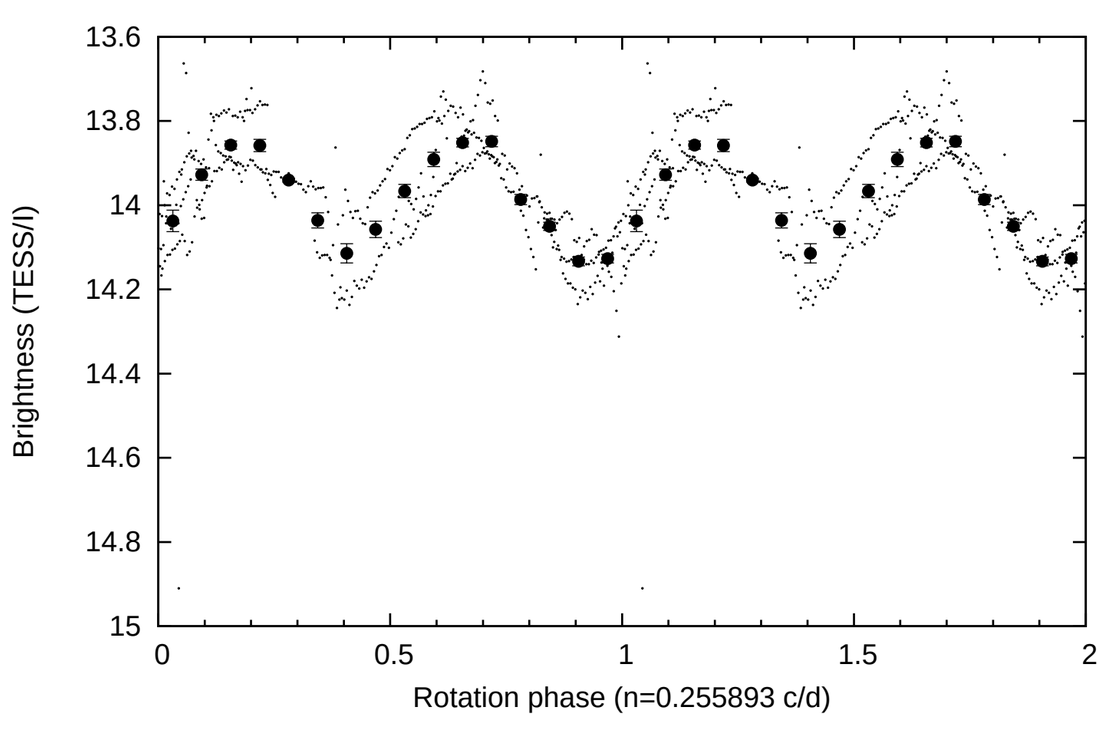

Brightness (TESS/I)
Rotation phase (n=3.93194 c/d)

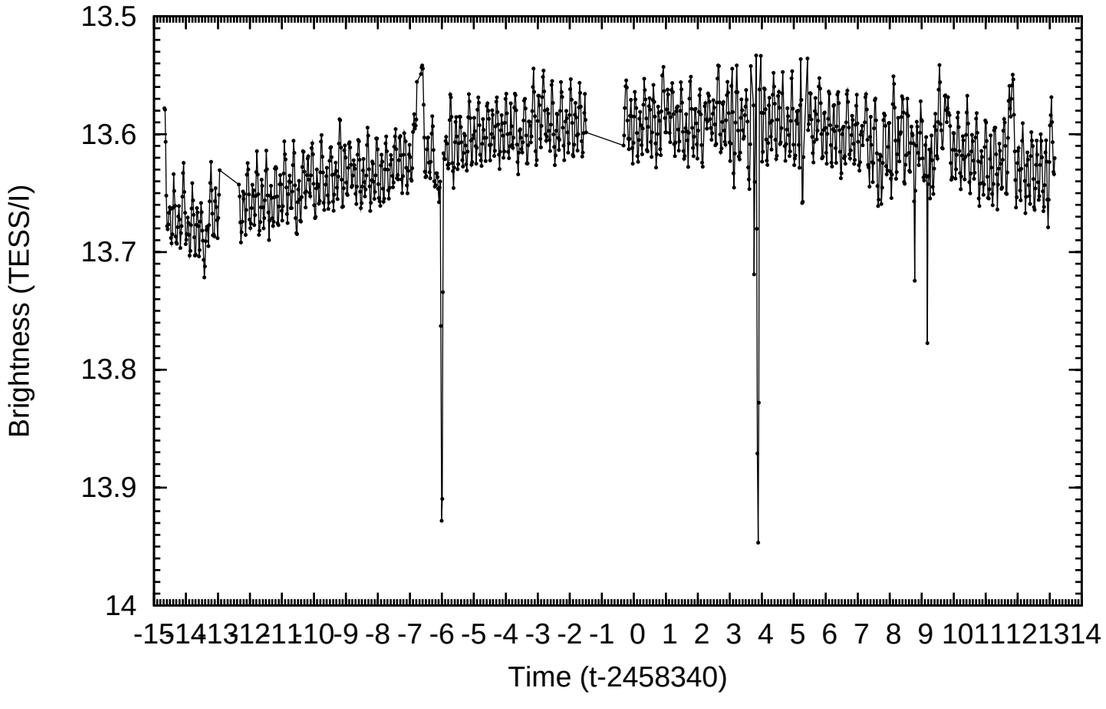
1651

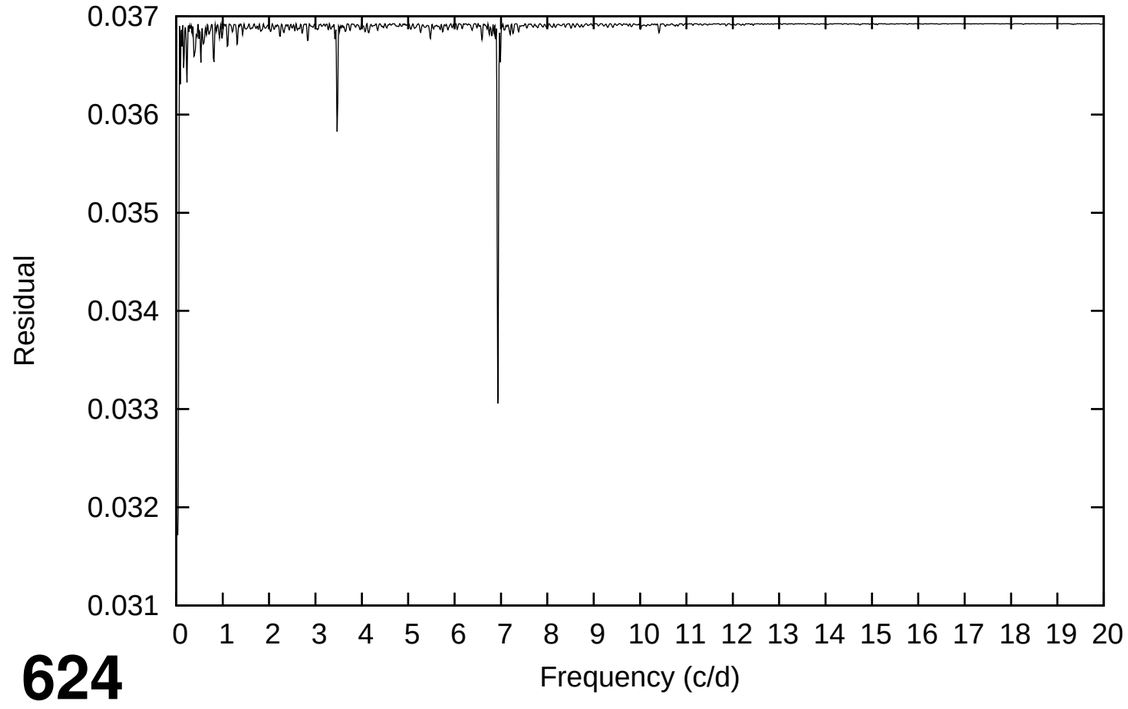

Brightness (TESS/I)
Time (t-2458480)


Residual
Frequency (c/d)

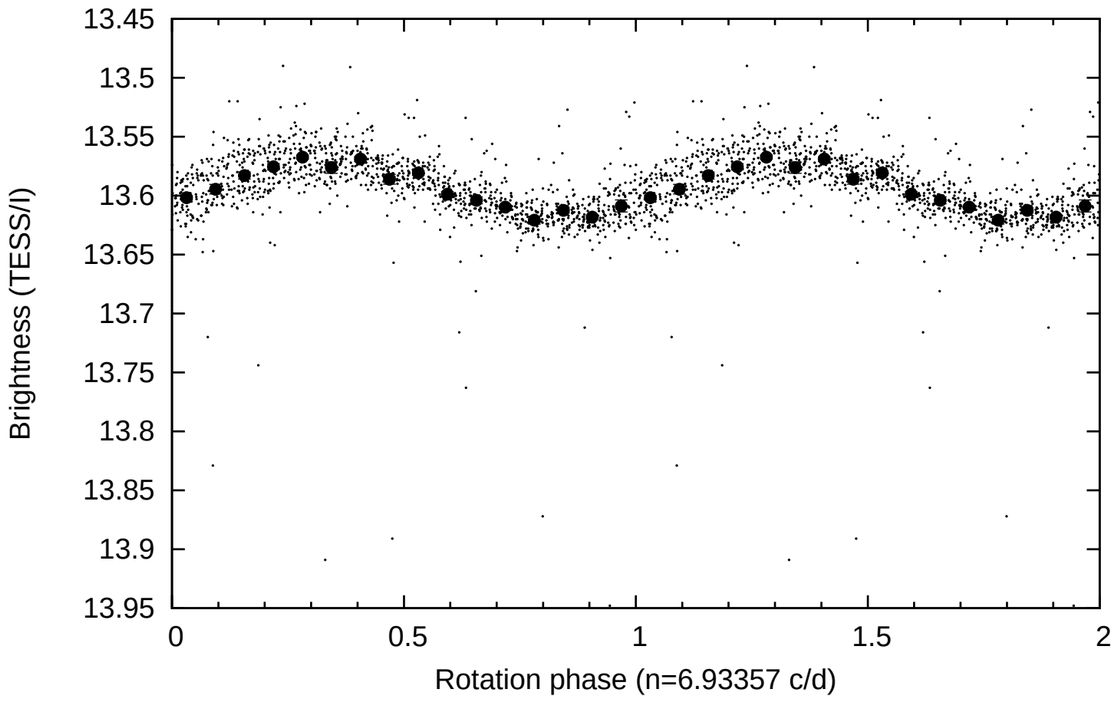

Brightness (TESS/I)
Rotation phase (n=0.511785 c/d)

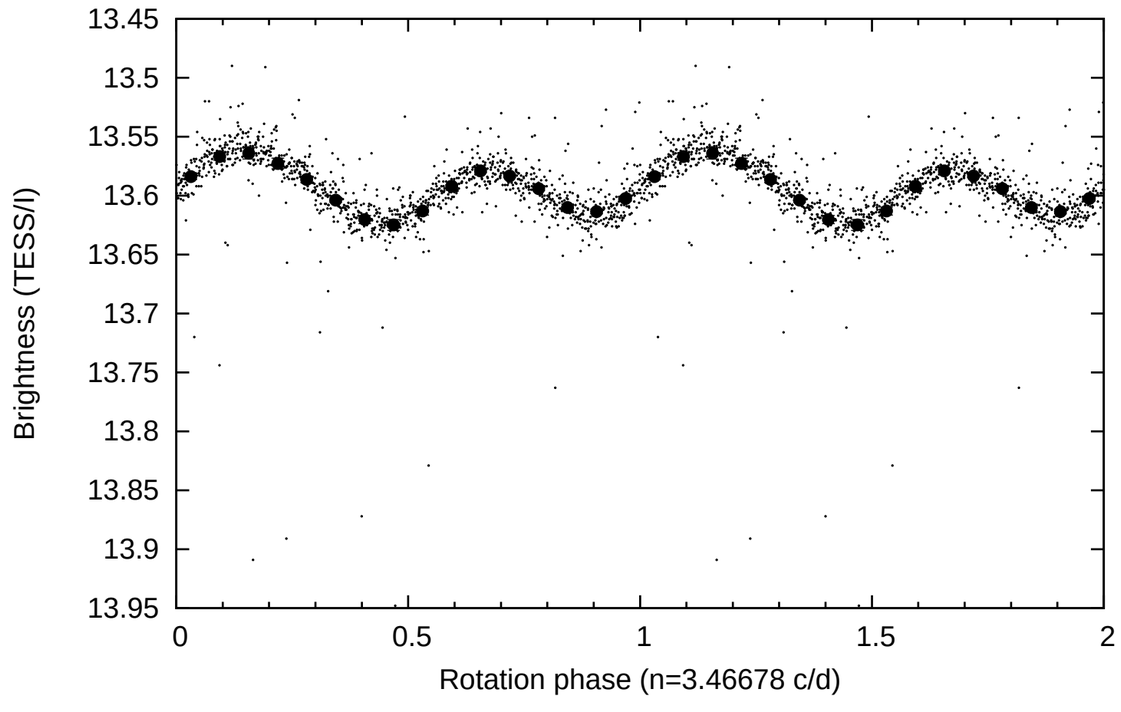

Brightness (TESS/I)
Rotation phase (n=0.255893 c/d)

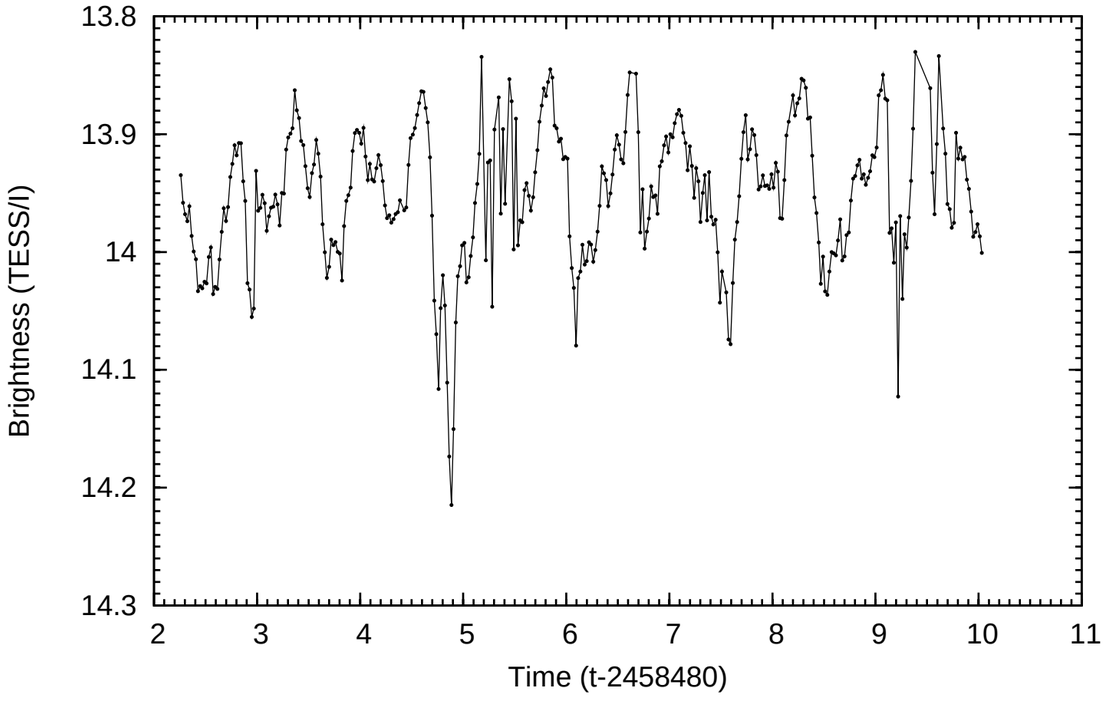

Brightness (TESS/I)
Time (t-2458340)

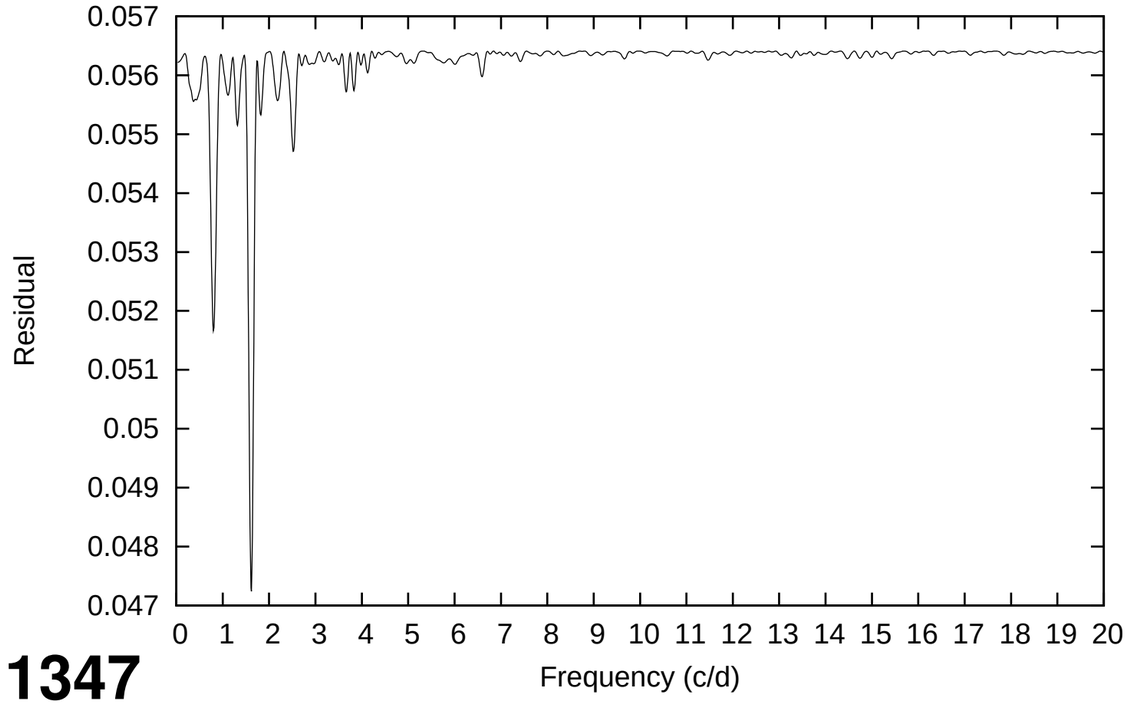

Residual
Frequency (c/d)

624

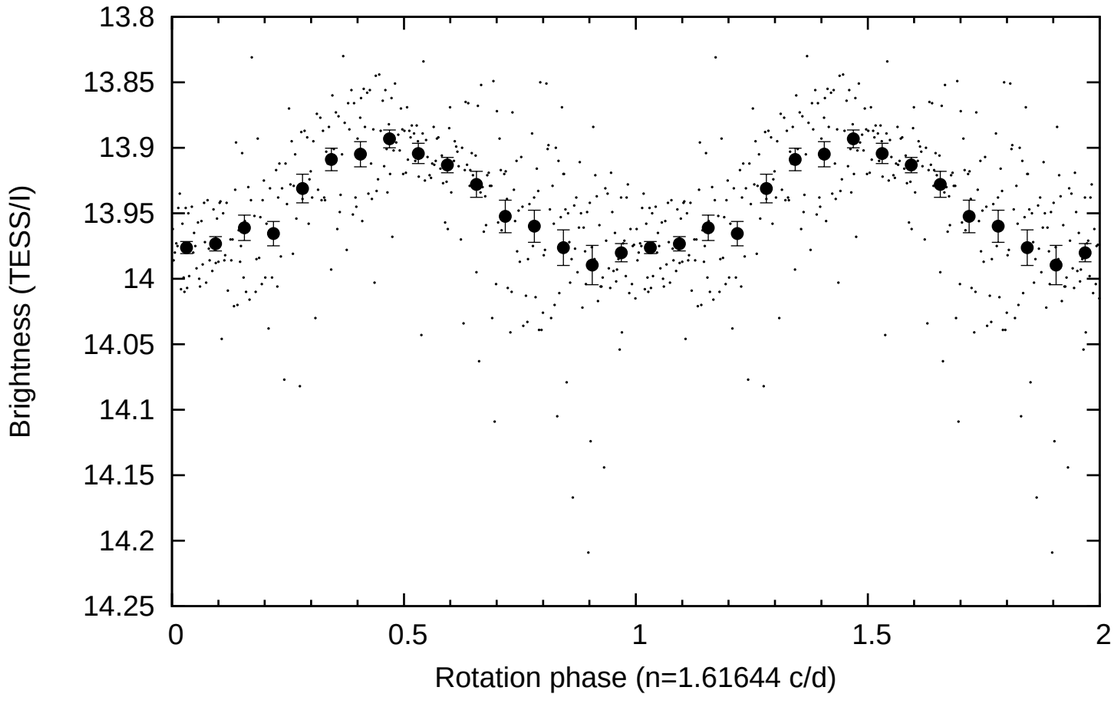

Brightness (TESS/I)
Rotation phase (n=6.93357 c/d)

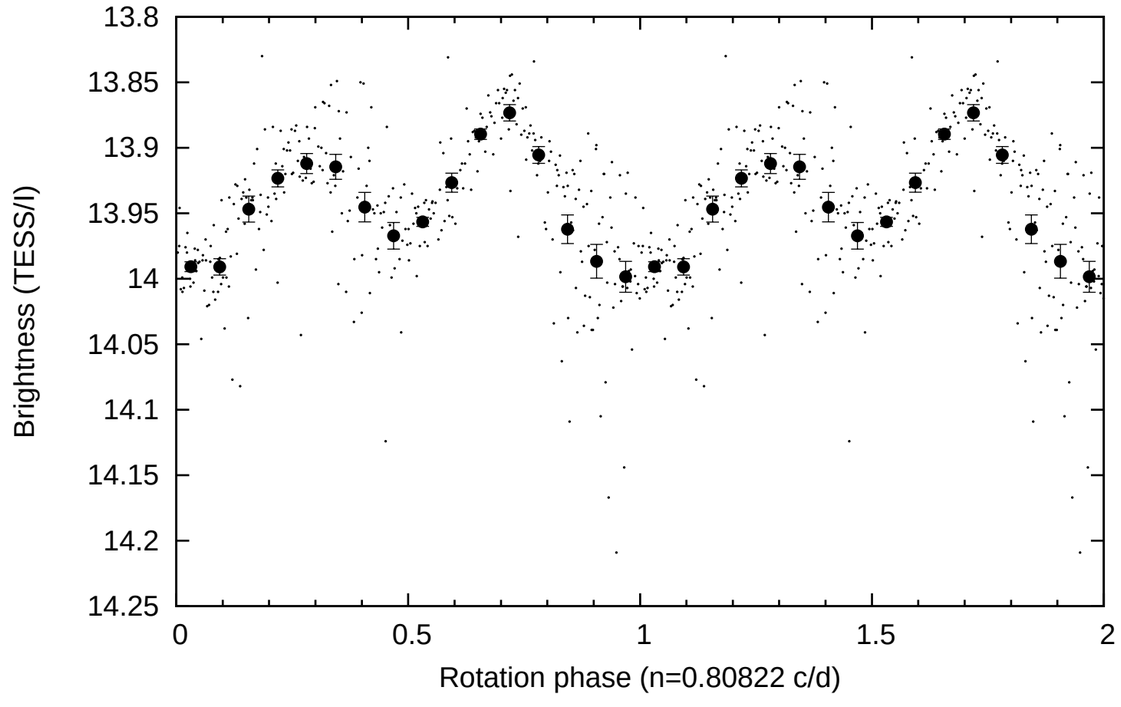

Brightness (TESS/I)
Rotation phase (n=3.46678 c/d)

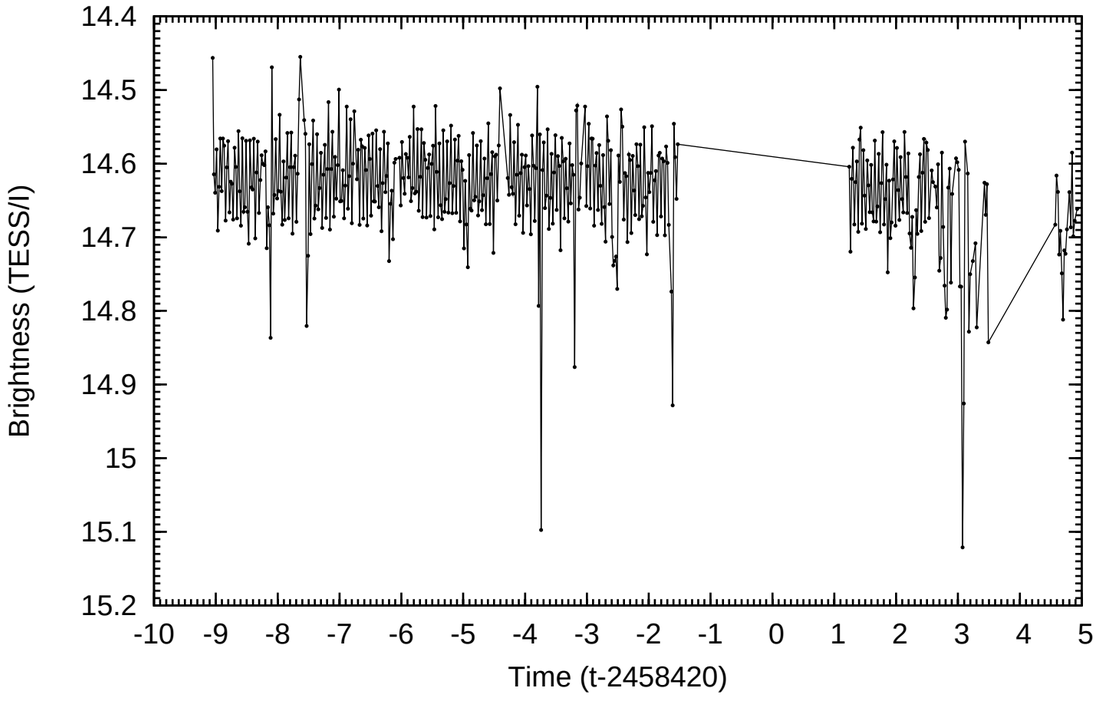

Brightness (TESS/I)
Time (t-2458480)

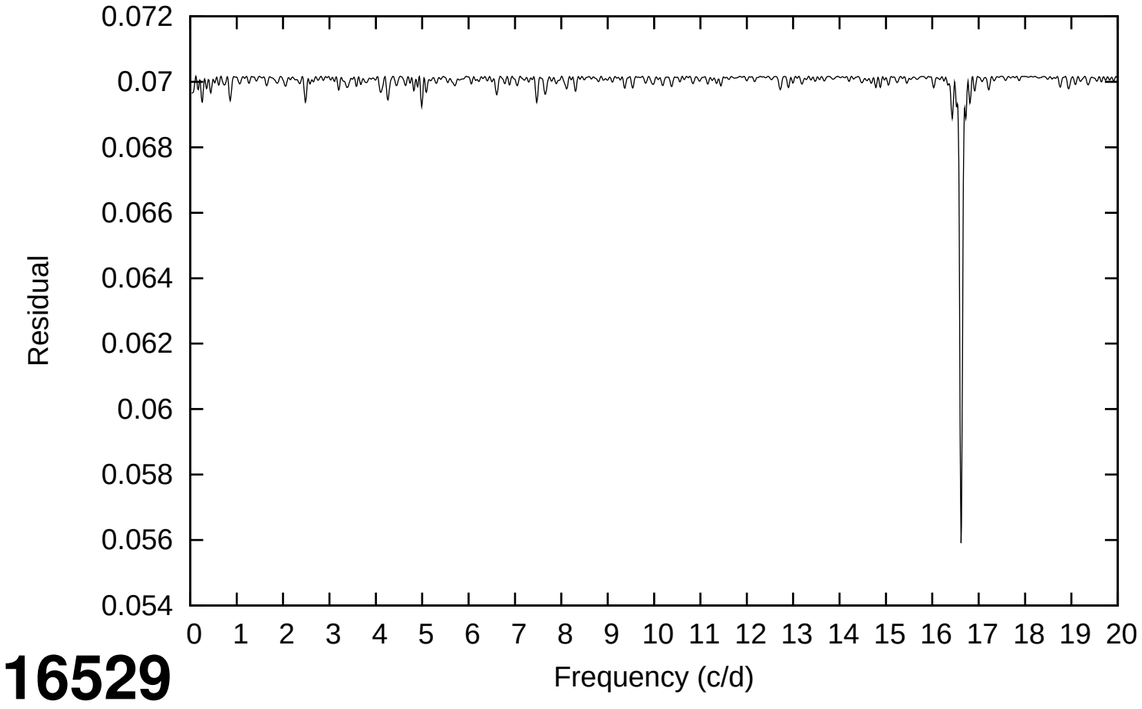

Residual
Frequency (c/d)

1347

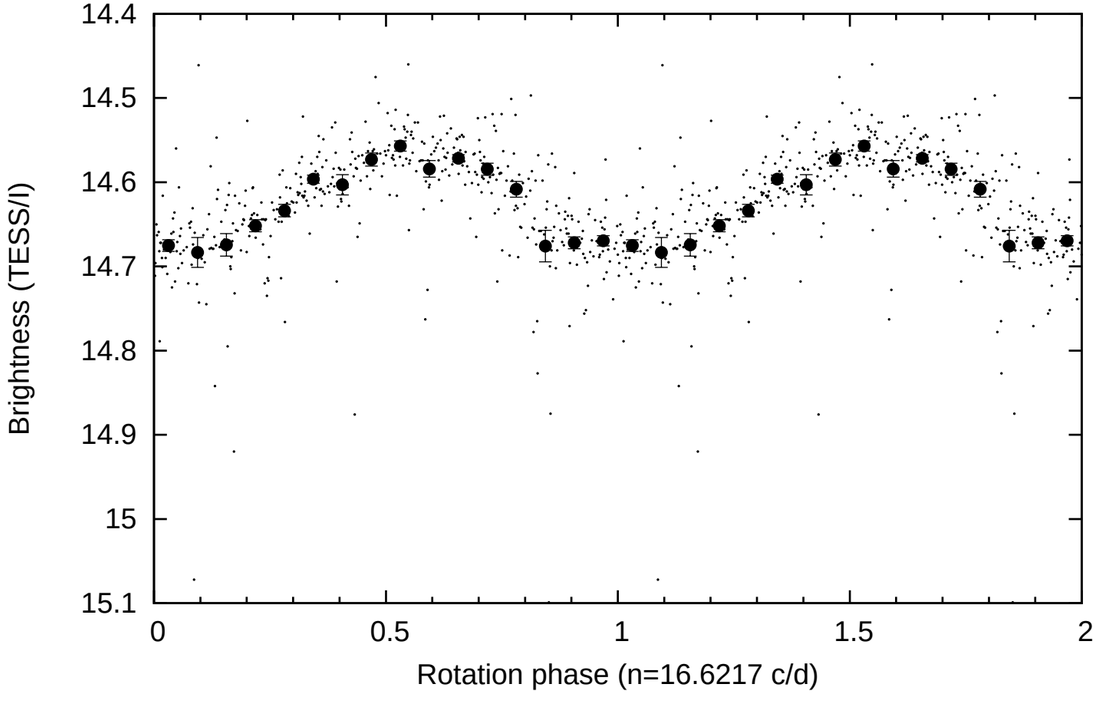

Brightness (TESS/I)
Rotation phase (n=1.61644 c/d)

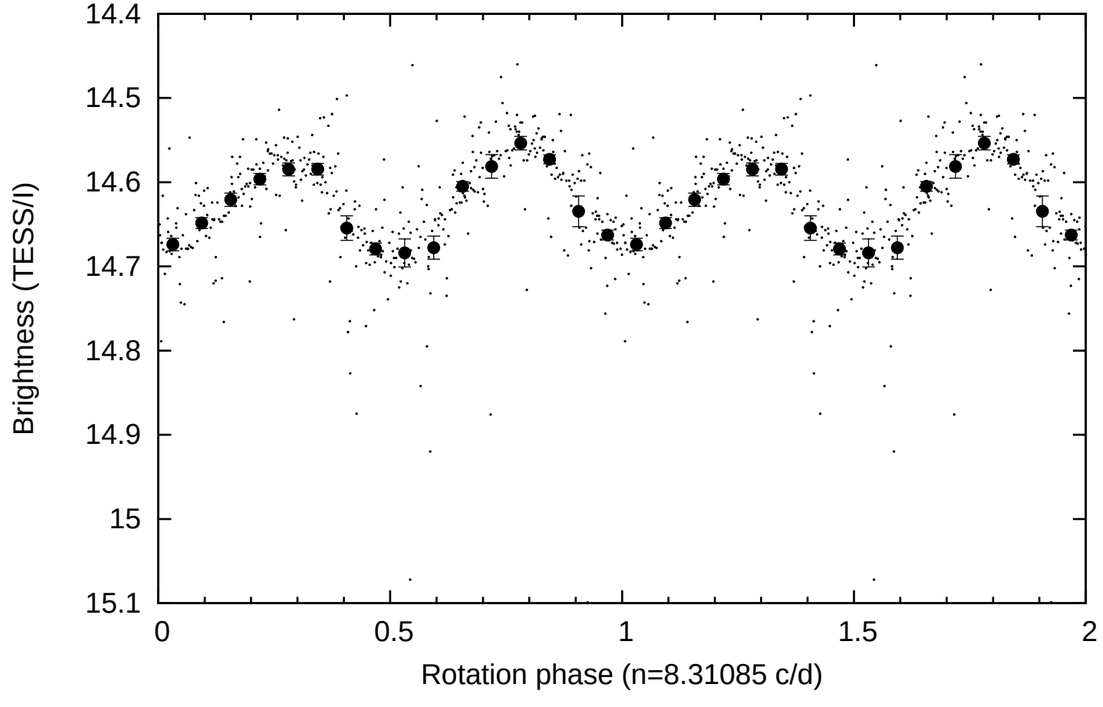

Brightness (TESS/I)
Rotation phase (n=0.80822 c/d)

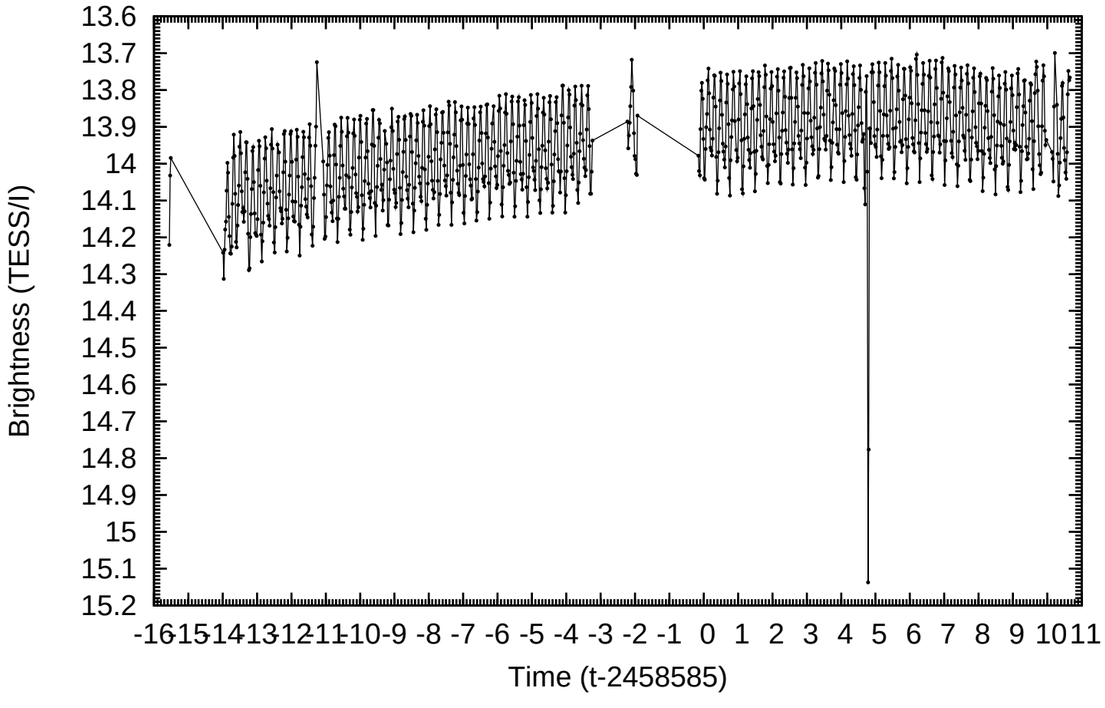

Brightness (TESS/I)
Time (t-2458420)

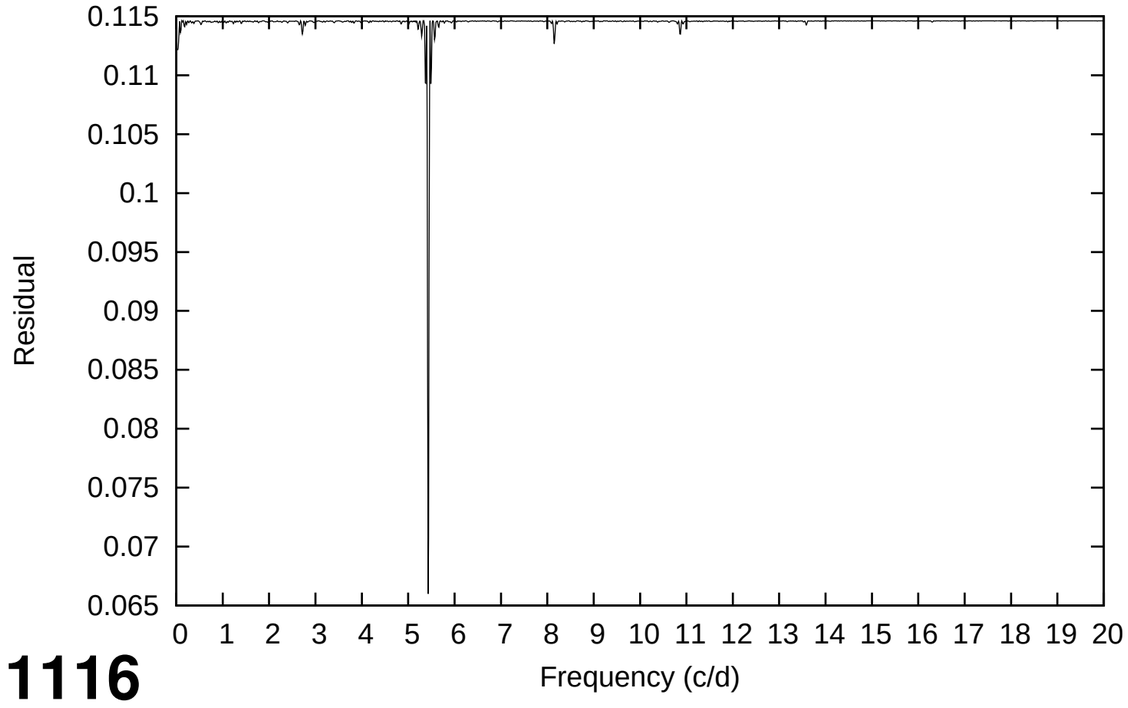

Residual
Frequency (c/d)

16529

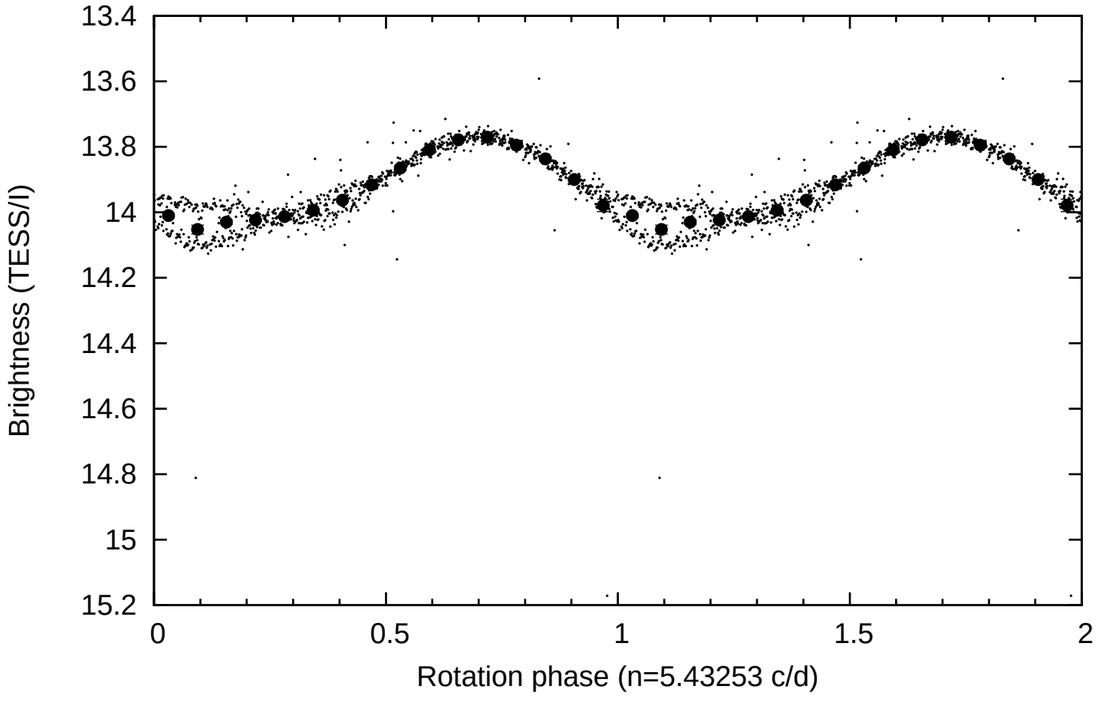

Brightness (TESS/I)
Rotation phase (n=16.6217 c/d)

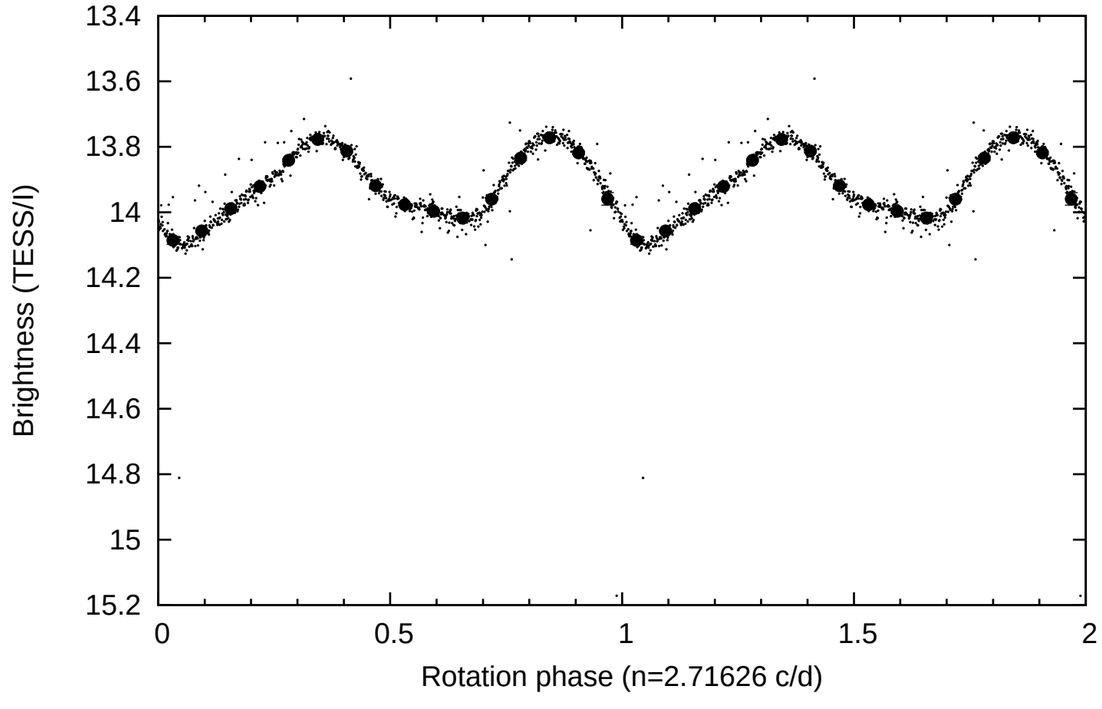

Brightness (TESS/I)
Rotation phase (n=8.31085 c/d)

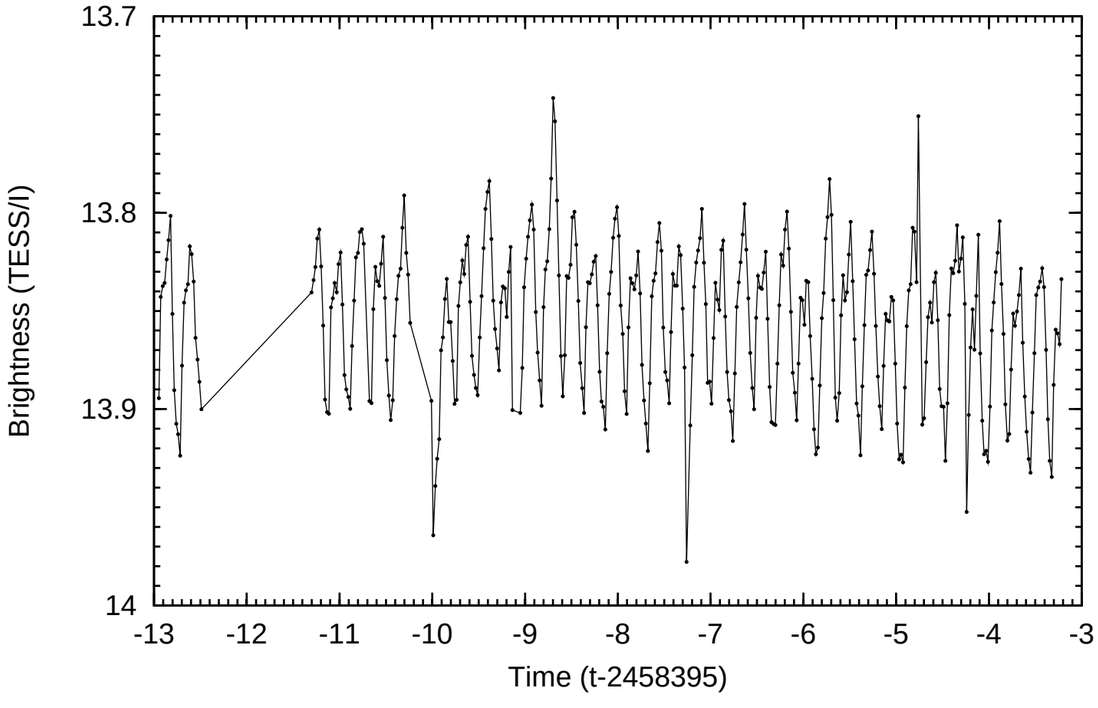

Brightness (TESS/I)
Time (t-2458585)

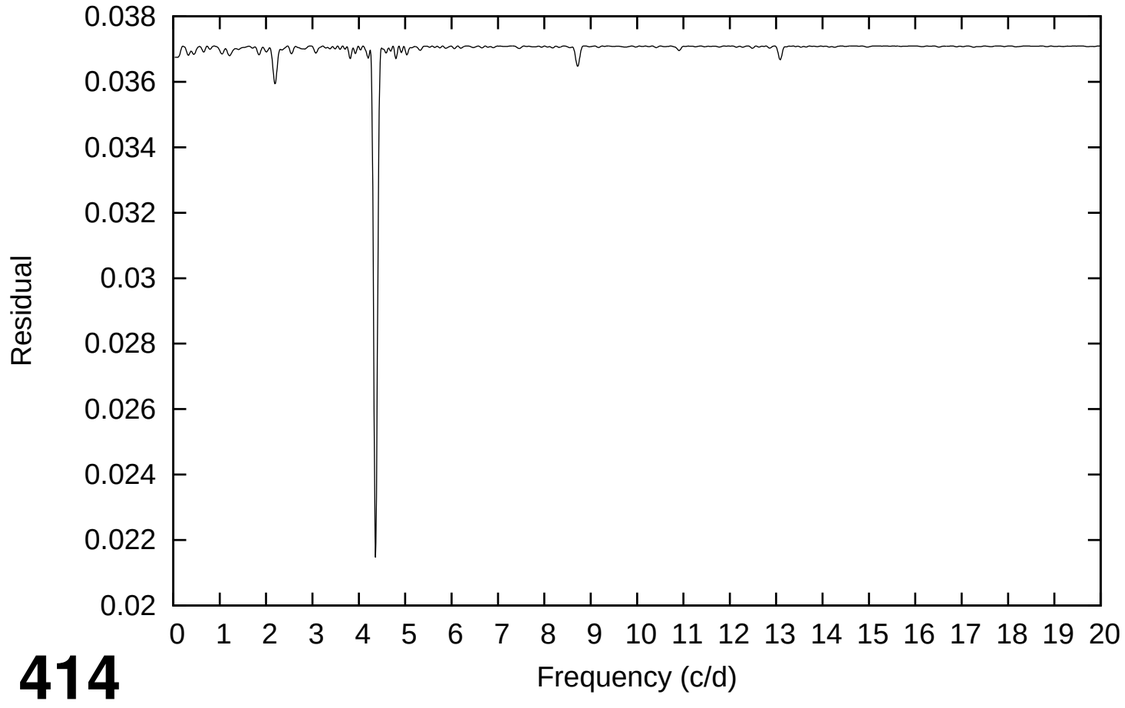

Residual
Frequency (c/d)

1116

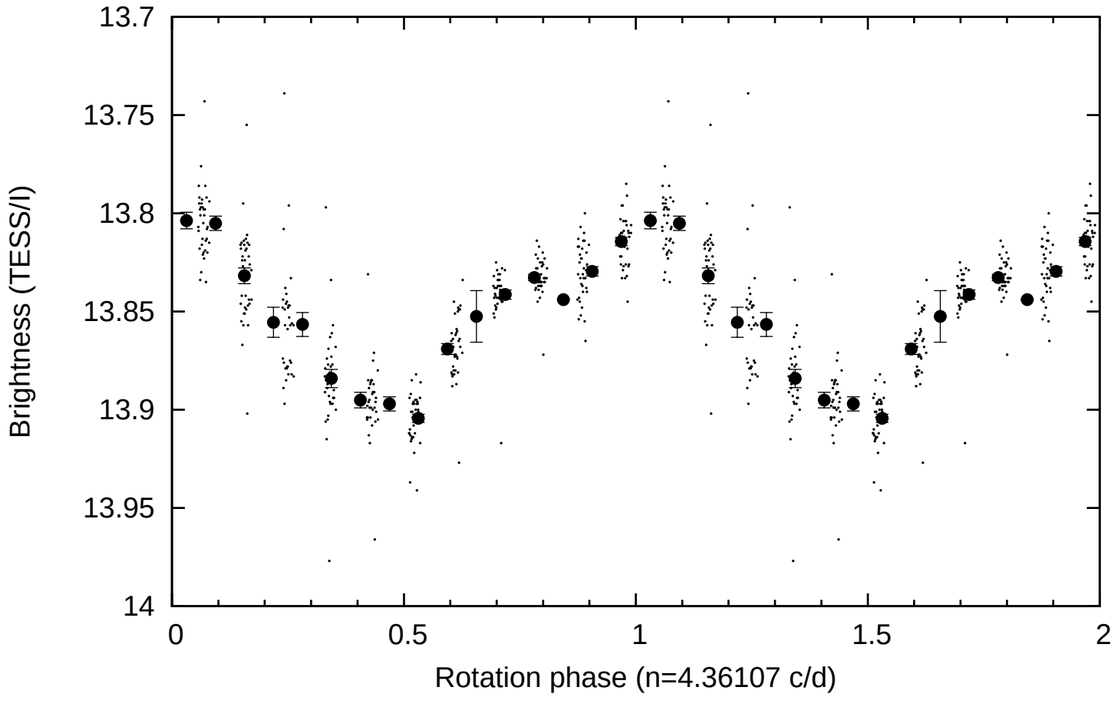

Brightness (TESS/I)
Rotation phase (n=5.43253 c/d)

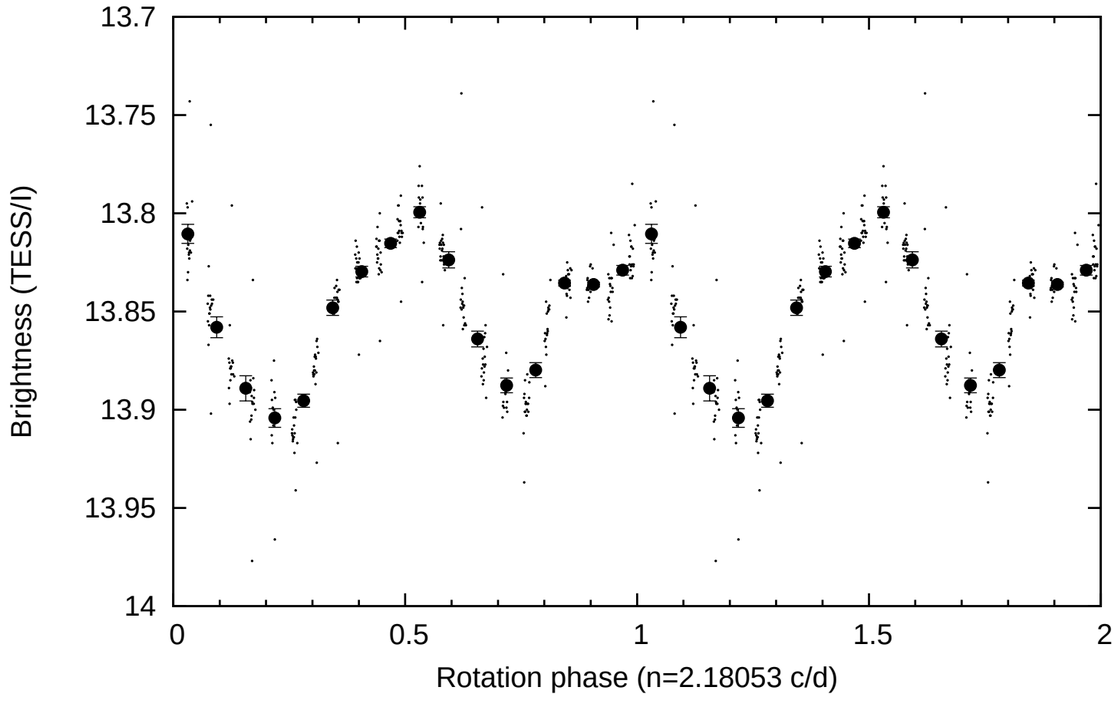

Brightness (TESS/I)
Rotation phase (n=2.71626 c/d)

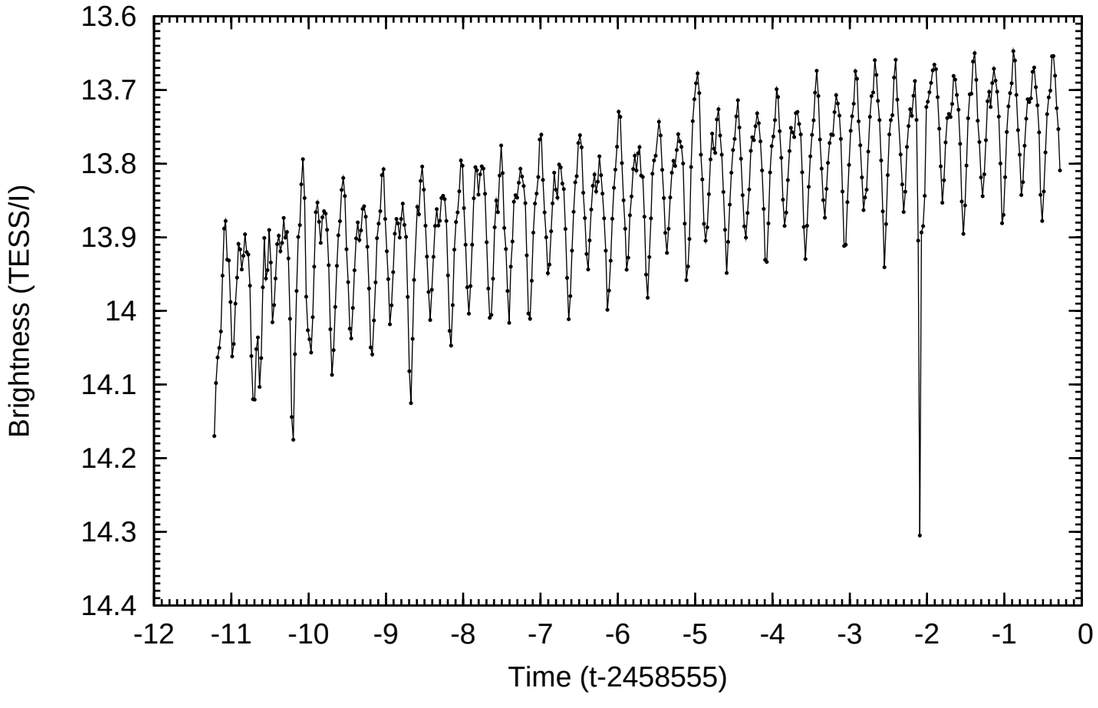

13.7
13.8
13.9
14
Brightness (TESS/I)
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
Time (t-2458395)

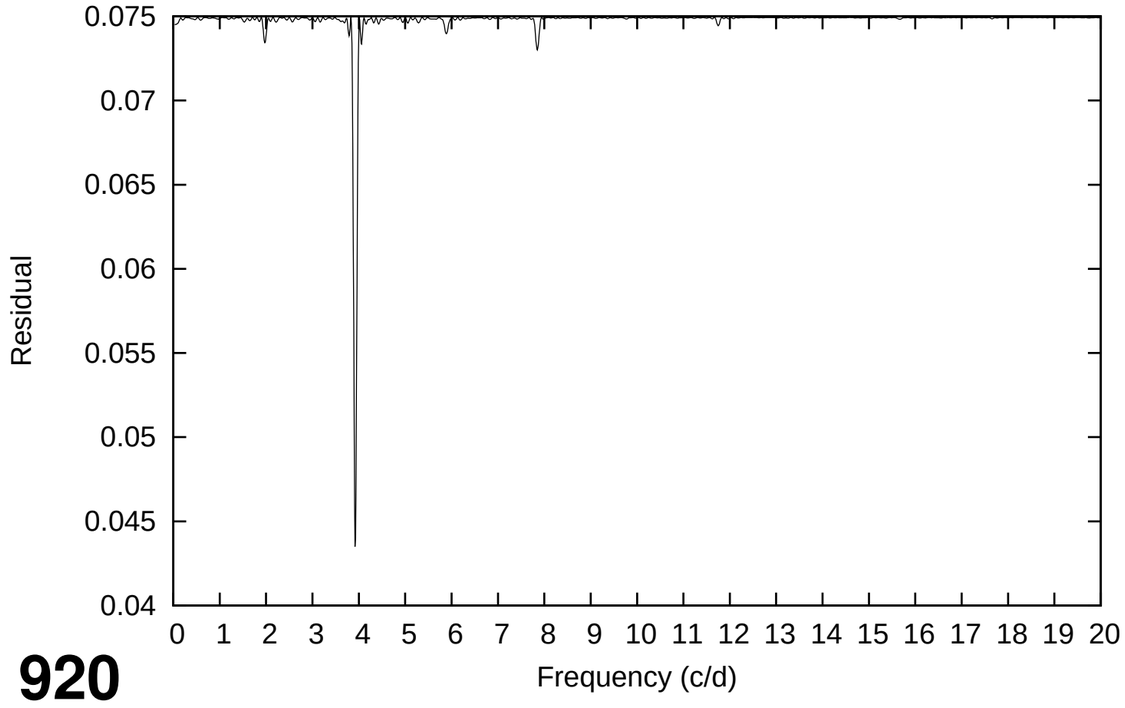

0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

414

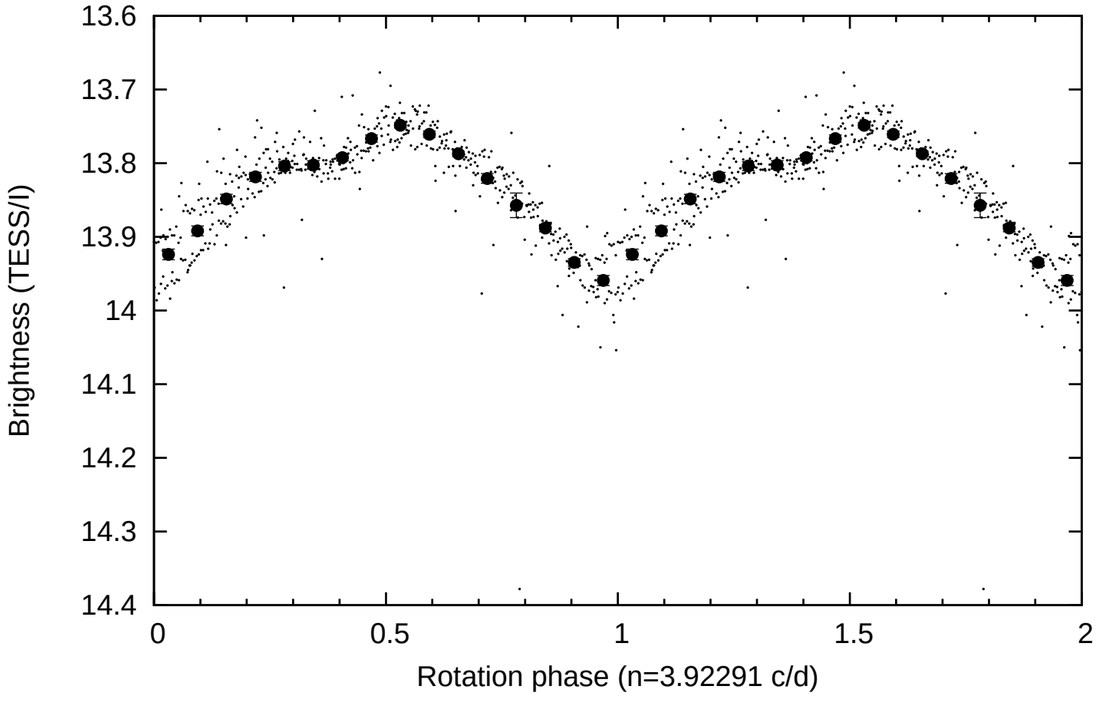

13.7
13.75
13.8
13.85
13.9
13.95
14
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=4.36107 c/d)

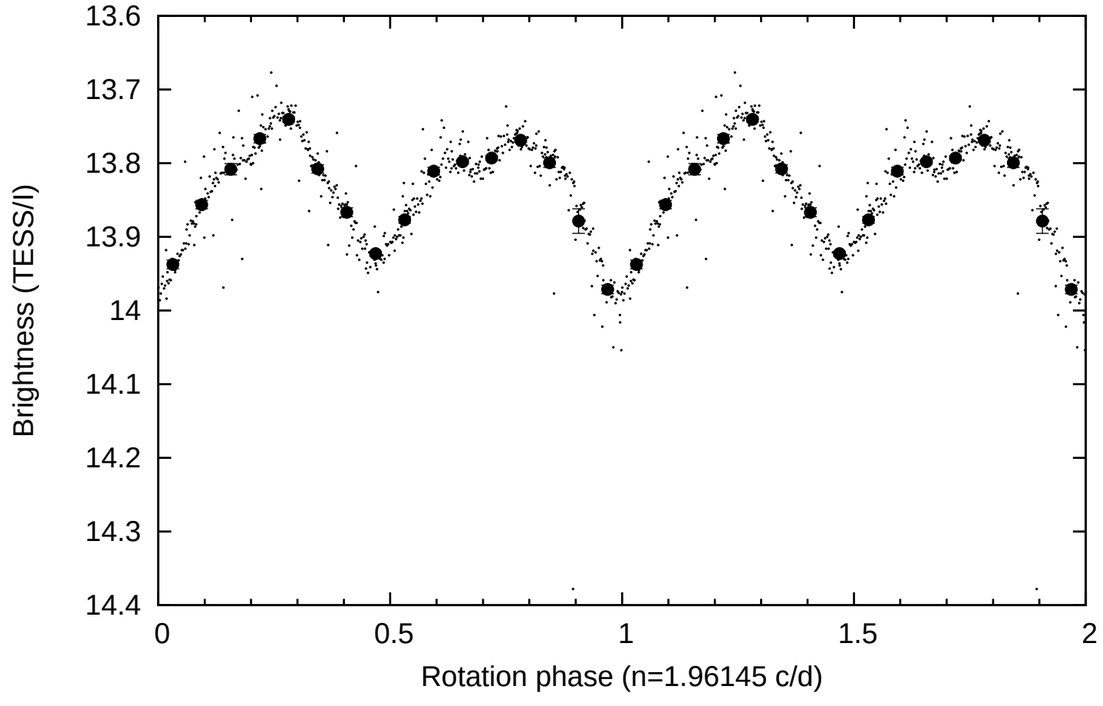

13.7
13.75
13.8
13.85
13.9
13.95
14
Brightness (TESS/I)
0
0.5
1
1.5
2
Rotation phase (n=2.18053 c/d)

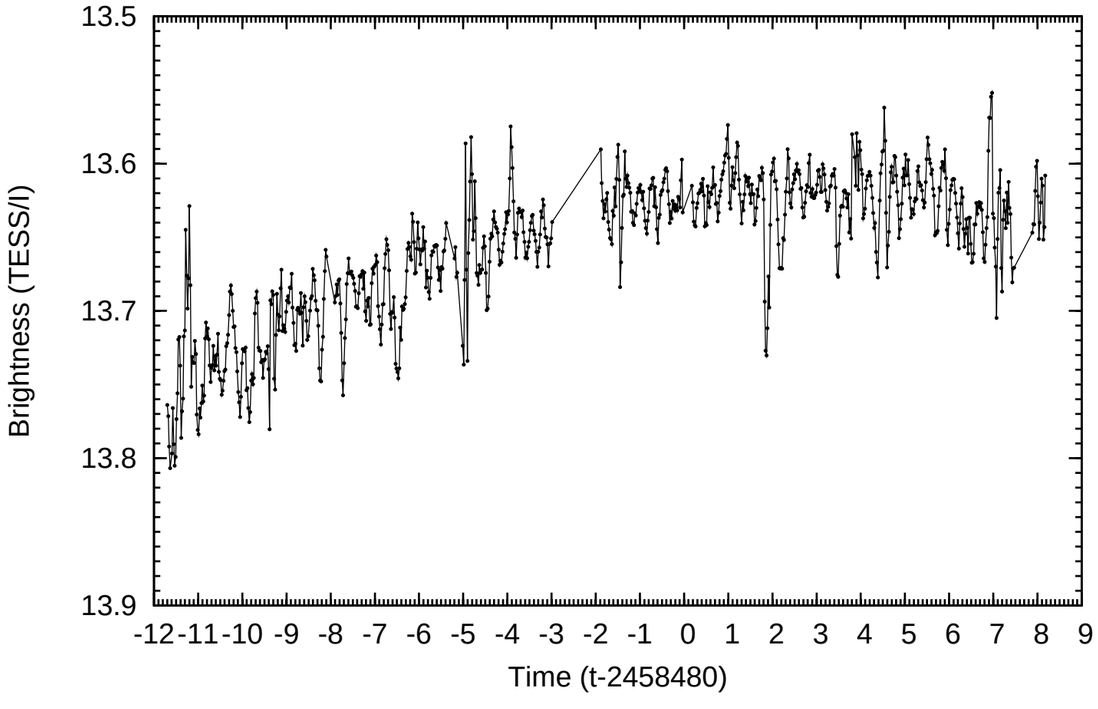

Brightness (TESS/I)
Time (t-2458555)


Residual
Frequency (c/d)

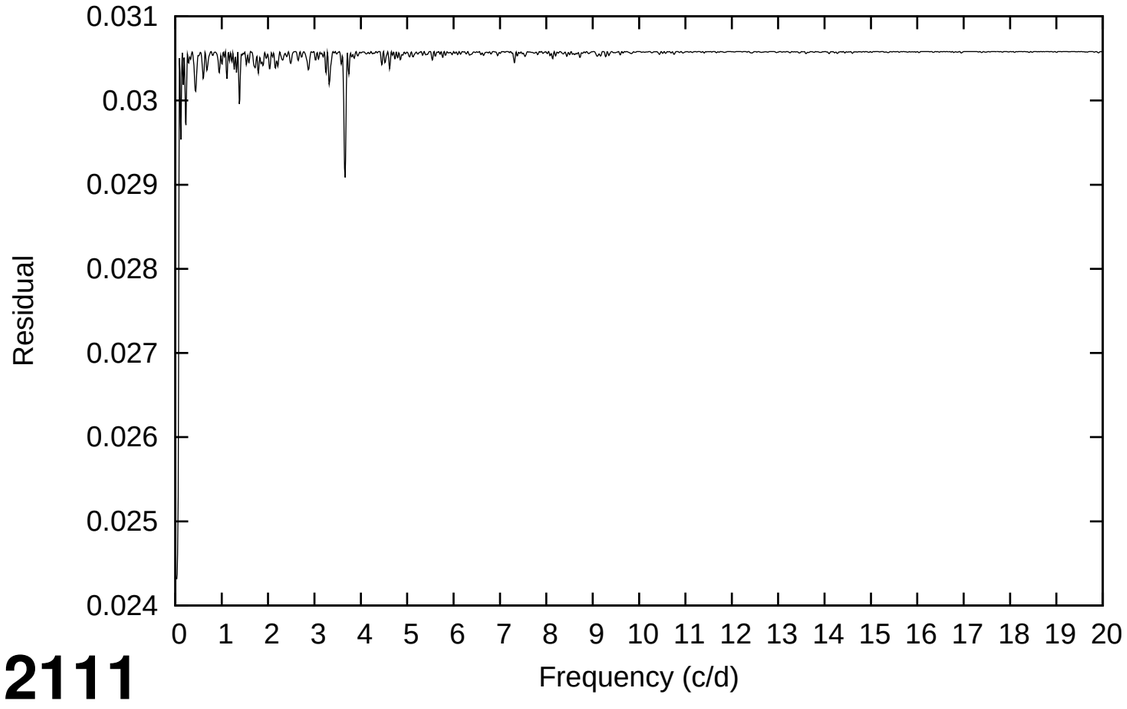
920

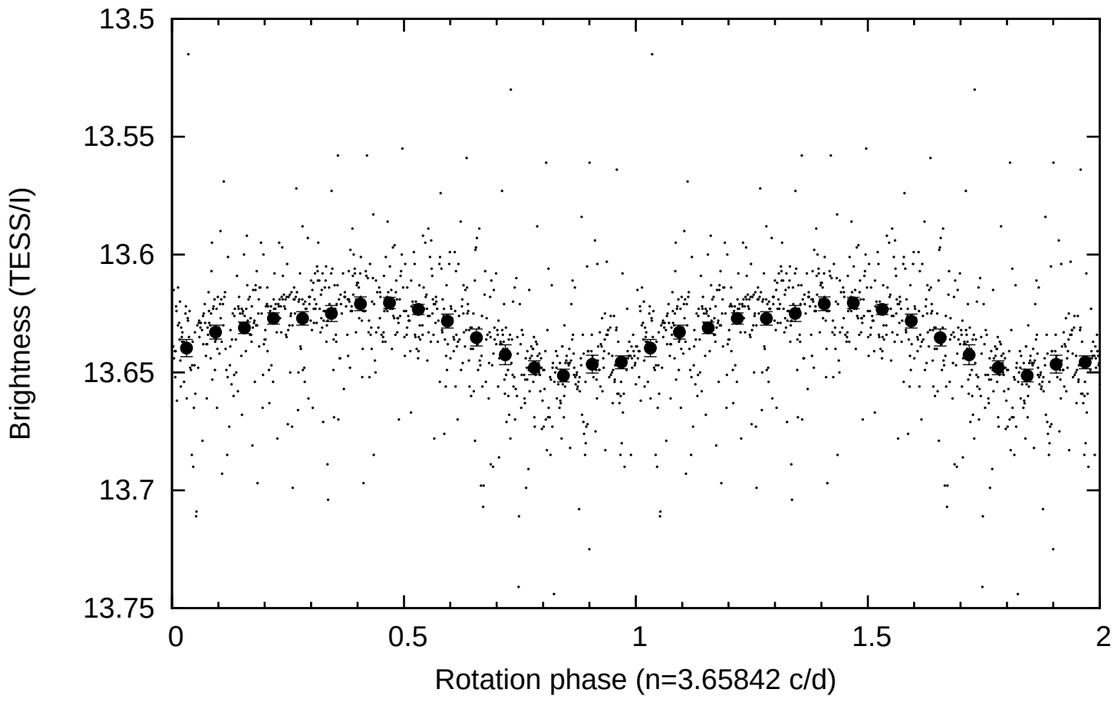

Brightness (TESS/I)
Rotation phase (n=3.92291 c/d)

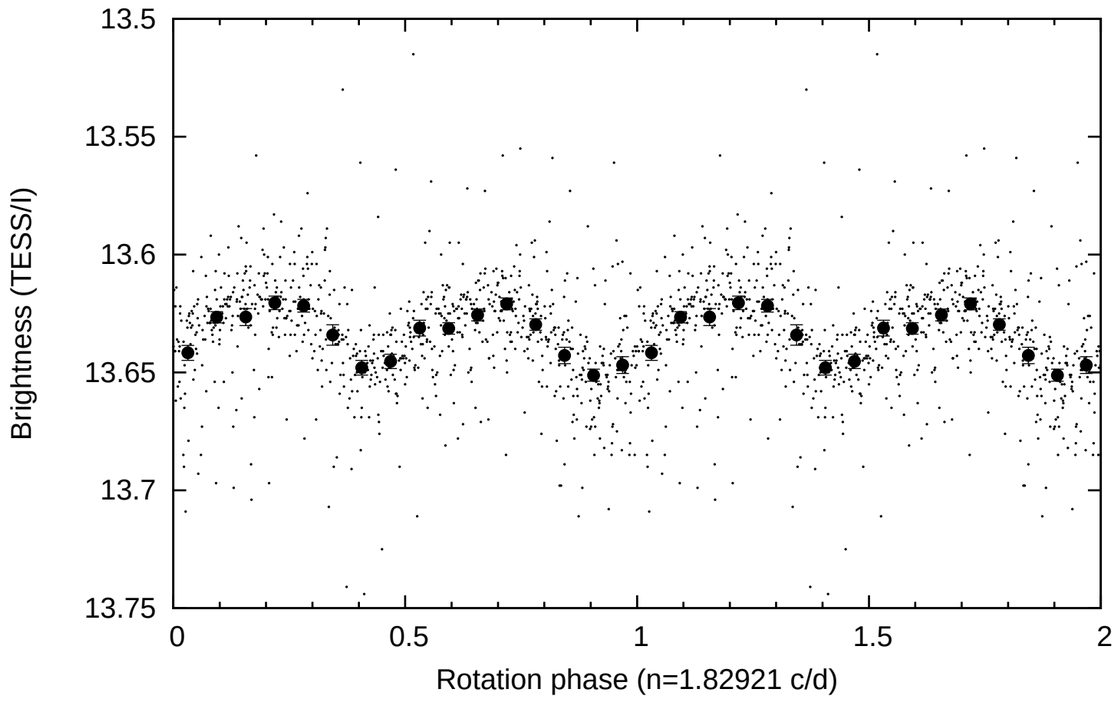

Brightness (TESS/I)
Rotation phase (n=1.96145 c/d)

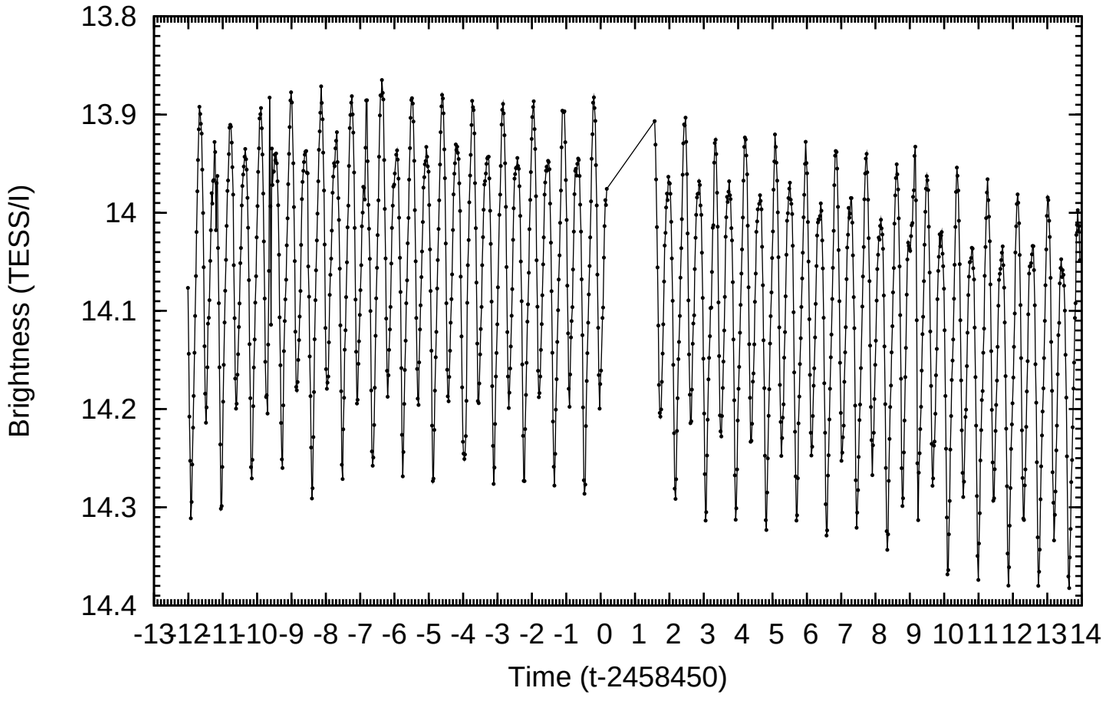

13.5
13.6
13.7
13.8
13.9
Brightness (TESS/I)
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
Time (t-2458480)

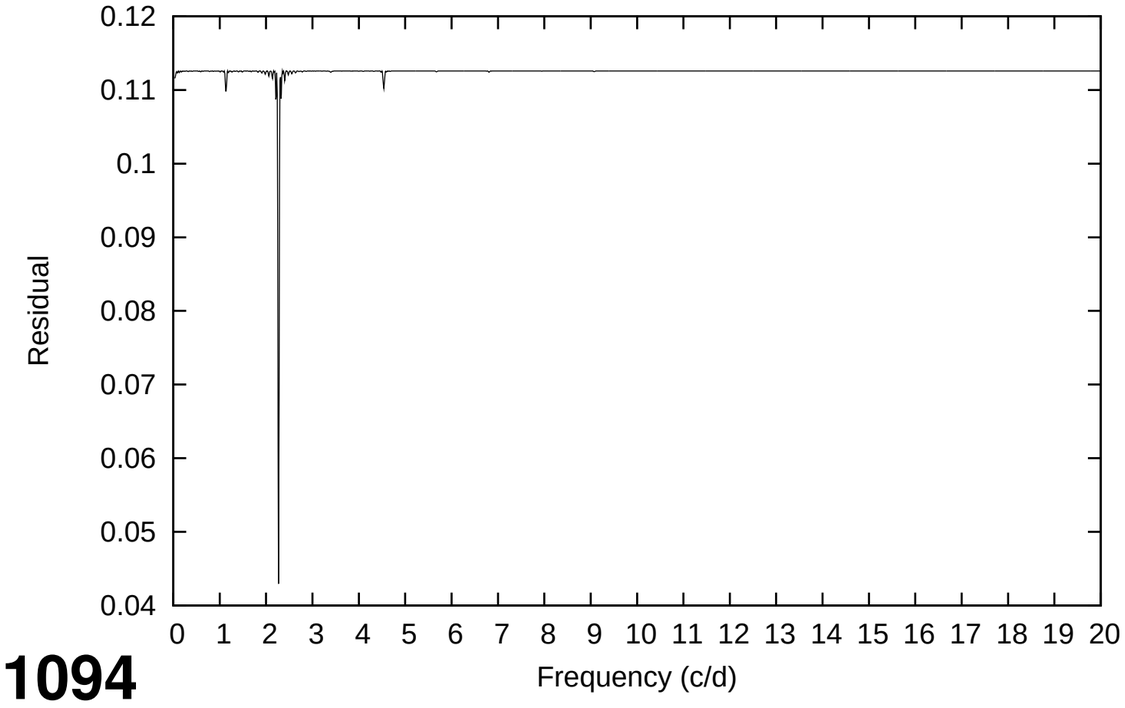
2111


0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Frequency (c/d)

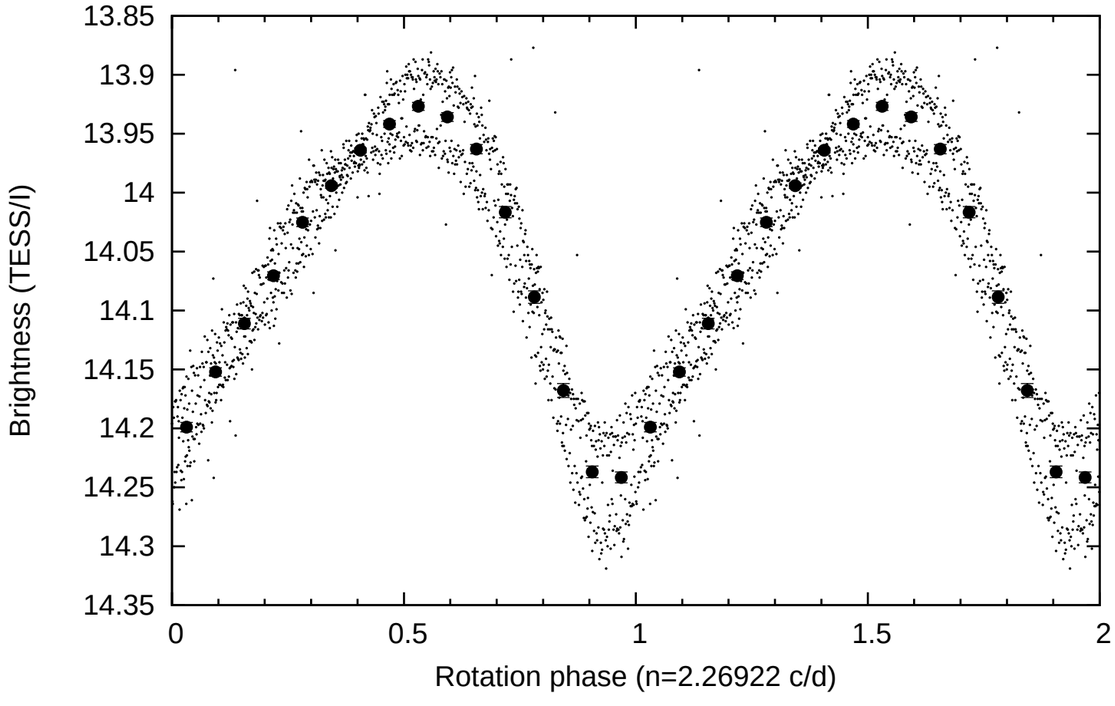

13.5
13.55
13.6
13.65
13.7
13.75
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=3.65842 c/d)

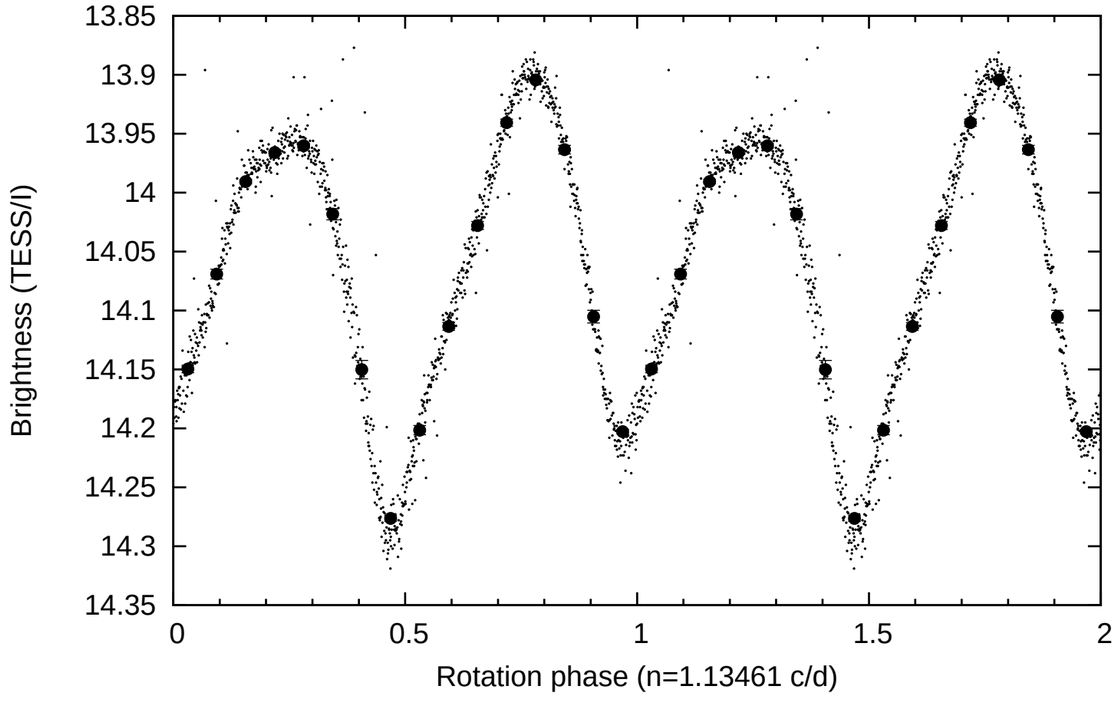

13.5
13.55
13.6
13.65
13.7
13.75
Brightness (TESS/I)
0 0.5 1 1.5 2
Rotation phase (n=1.82921 c/d)

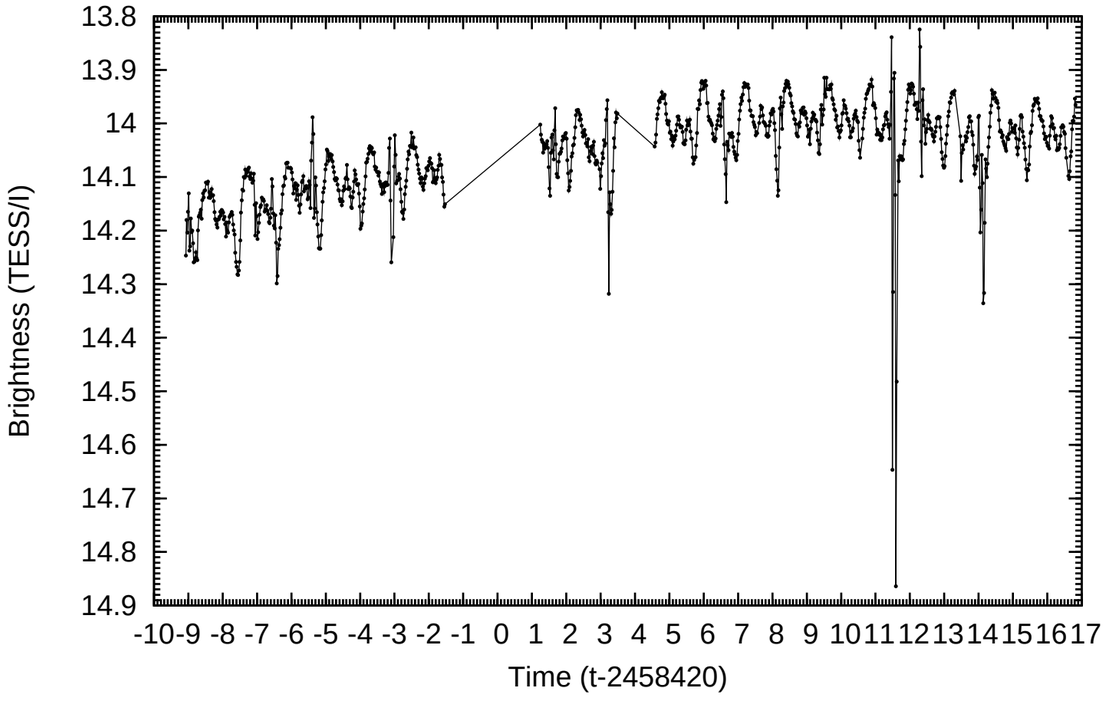

Brightness (TESS/I)
Time (t-2458450)

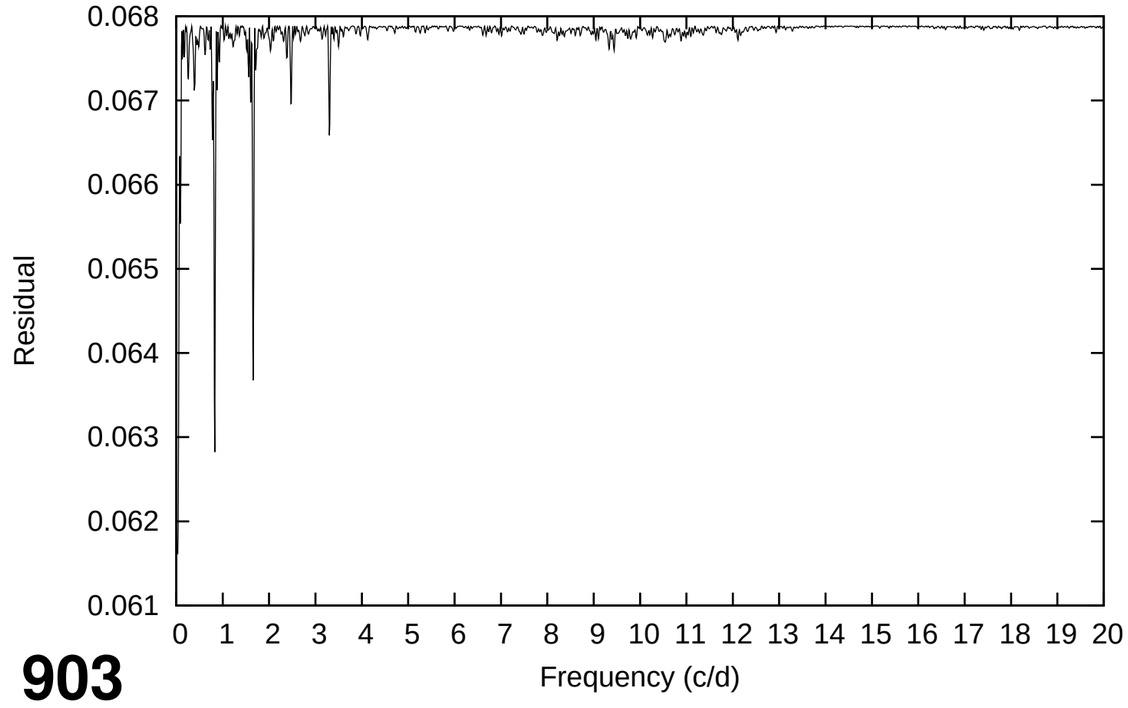

Residual
Frequency (c/d)

1094

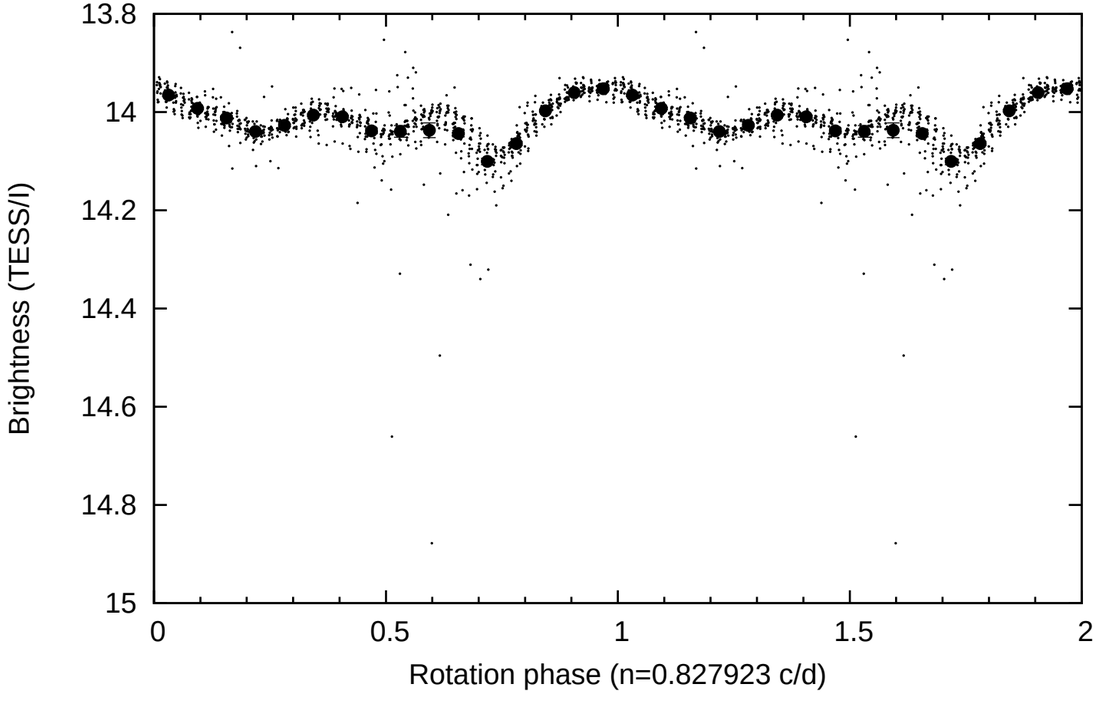

Brightness (TESS/I)
Rotation phase (n=2.26922 c/d)

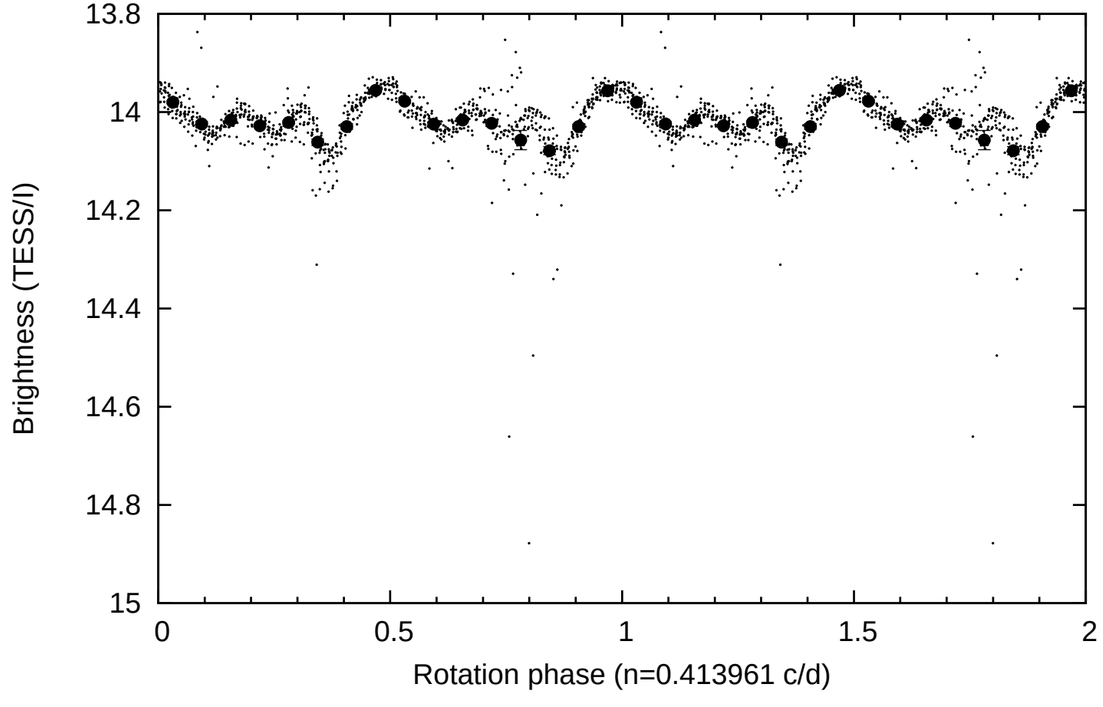

Brightness (TESS/I)
Rotation phase (n=1.13461 c/d)

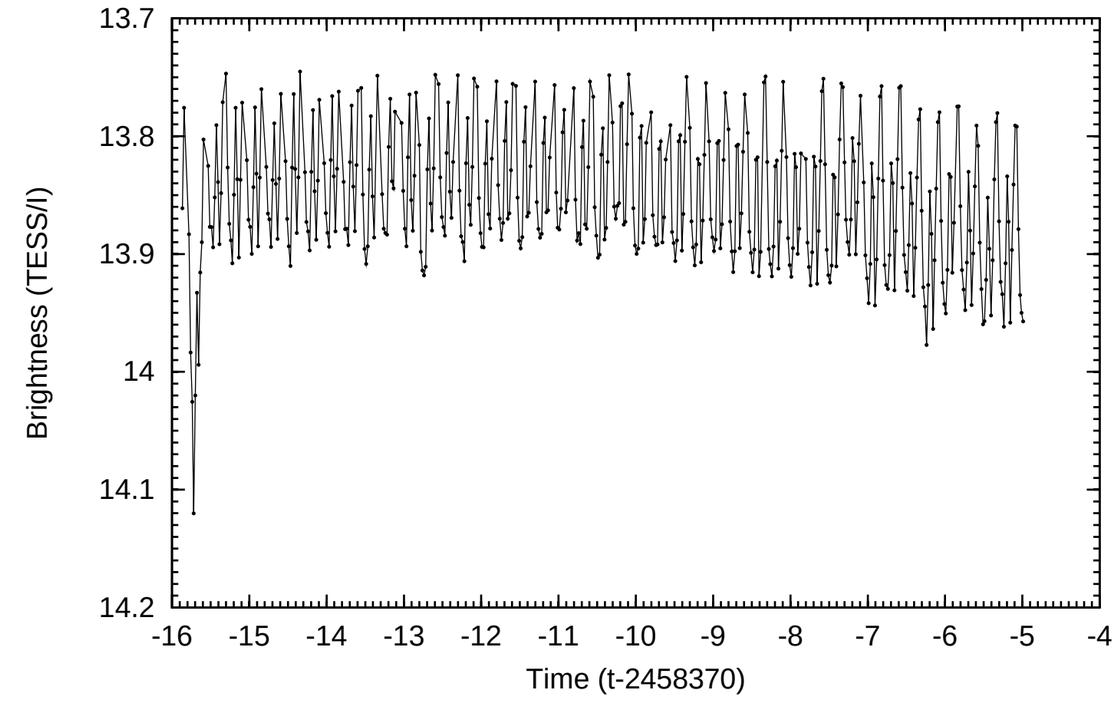

Brightness (TESS/I)
Time (t-2458420)


Residual
Frequency (c/d)

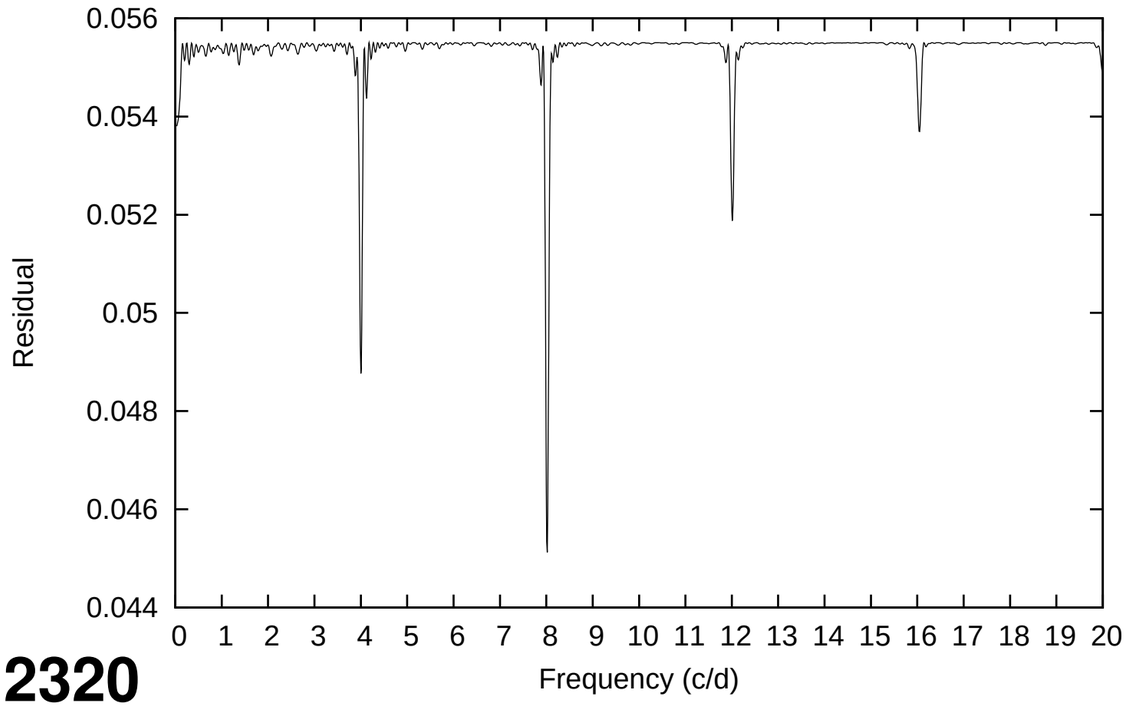
903

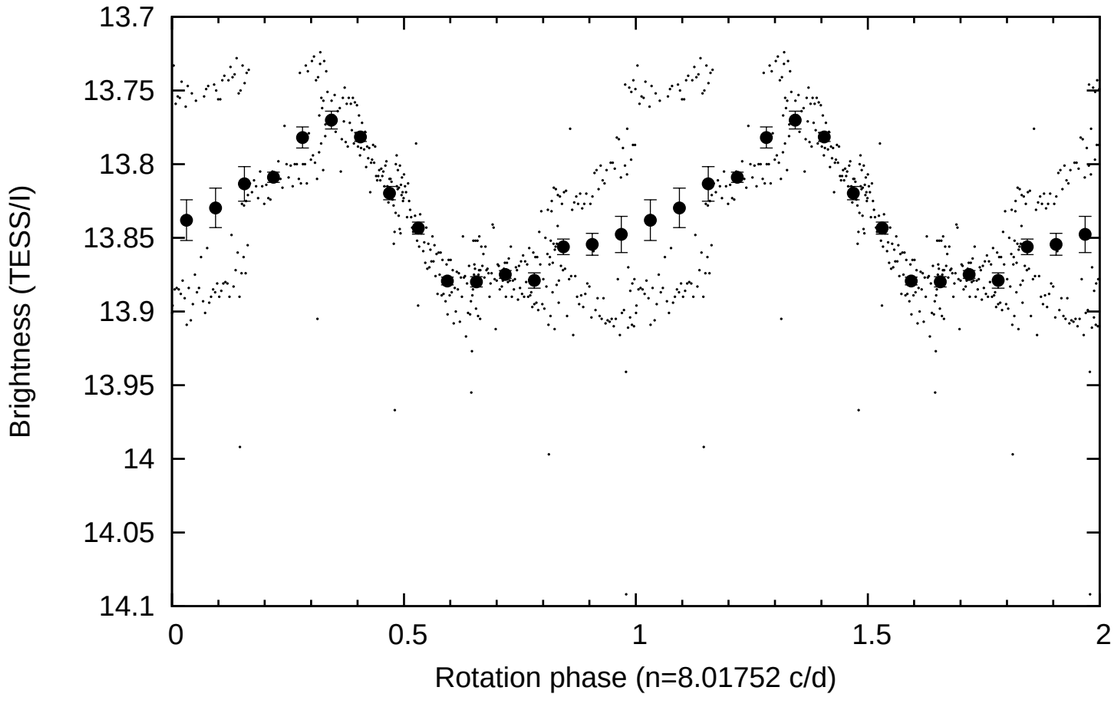

Brightness (TESS/I)
Rotation phase (n=0.827923 c/d)

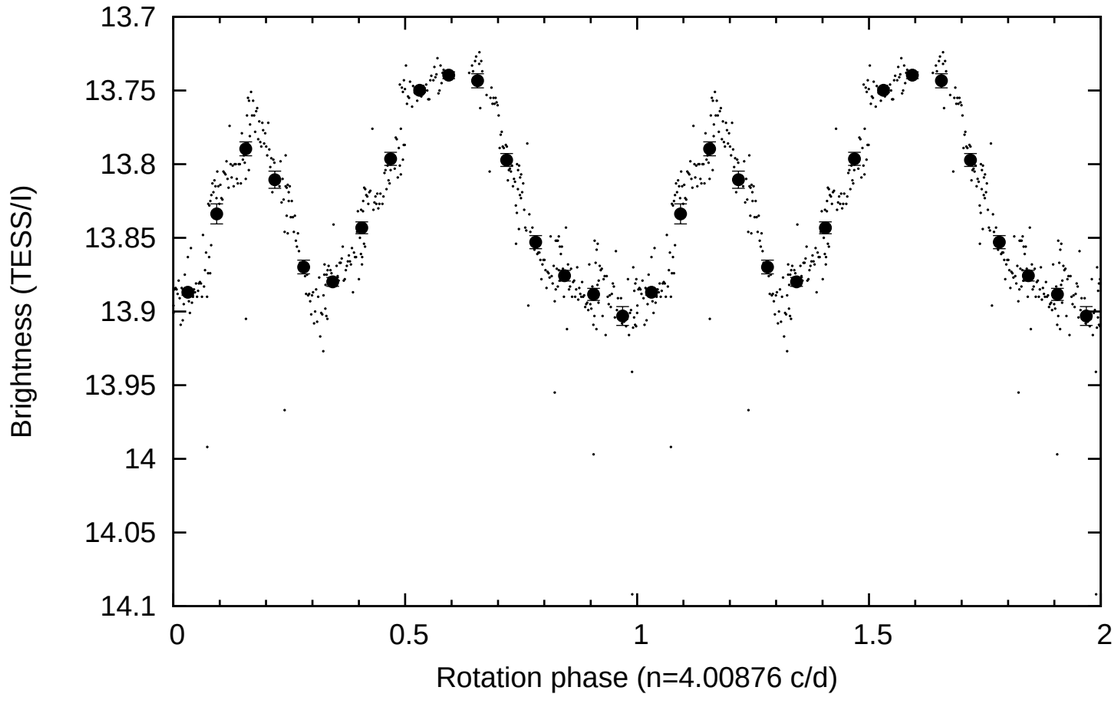

Brightness (TESS/I)
Rotation phase (n=0.413961 c/d)


Brightness (TESS/I)
Time (t-2458370)
13.7
13.8
13.9
14
14.1
14.2
-16
-15
-14
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4

2320


Residual
Frequency (c/d)
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20


Brightness (TESS/I)
Rotation phase (n=8.01752 c/d)
13.7
13.75
13.8
13.85
13.9
13.95
14
14.05
14.1
0
0.5
1
1.5
2


Brightness (TESS/I)
Rotation phase (n=4.00876 c/d)
13.7
13.75
13.8
13.85
13.9
13.95
14
14.05
14.1
0
0.5
1
1.5
2