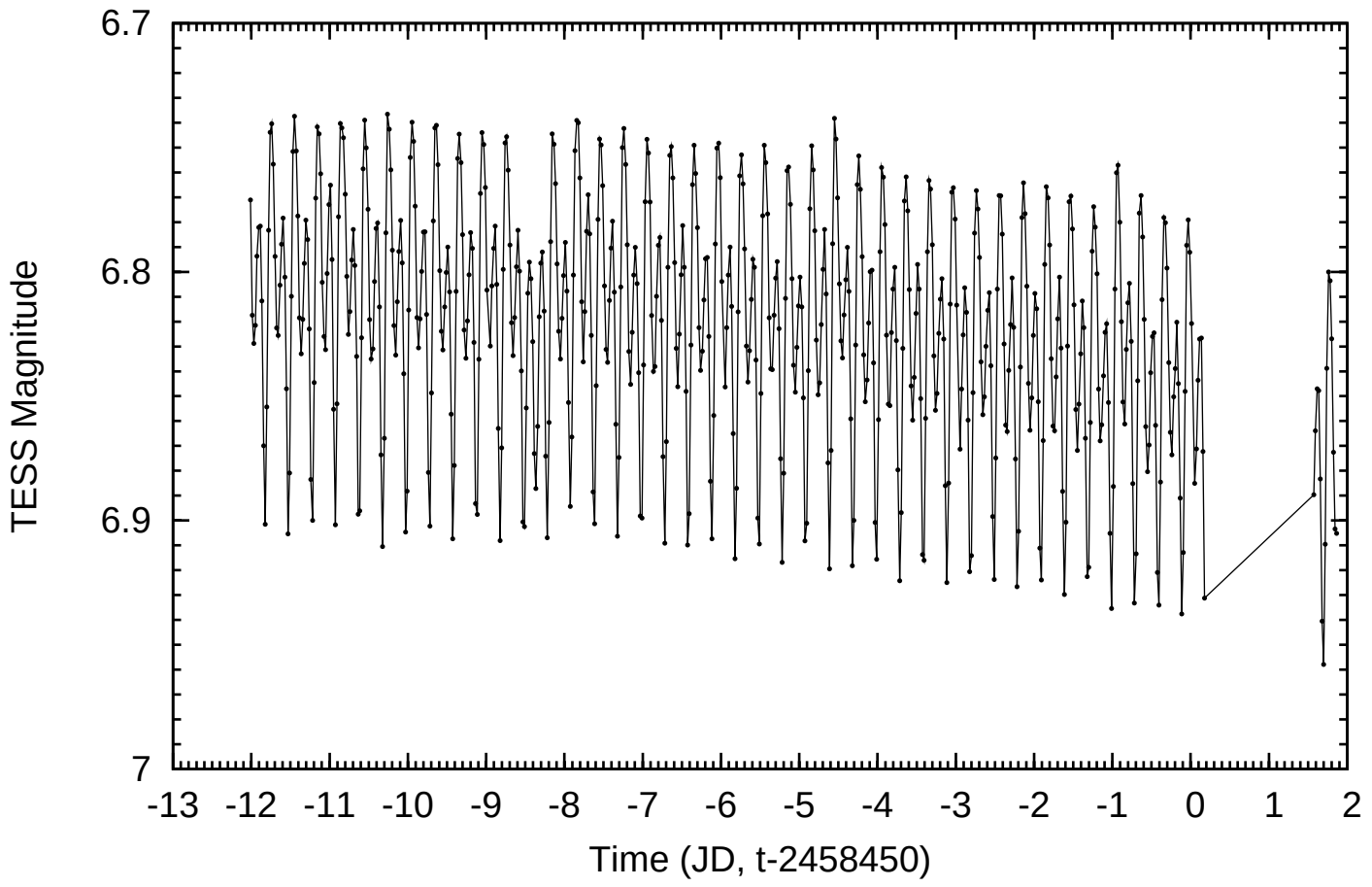
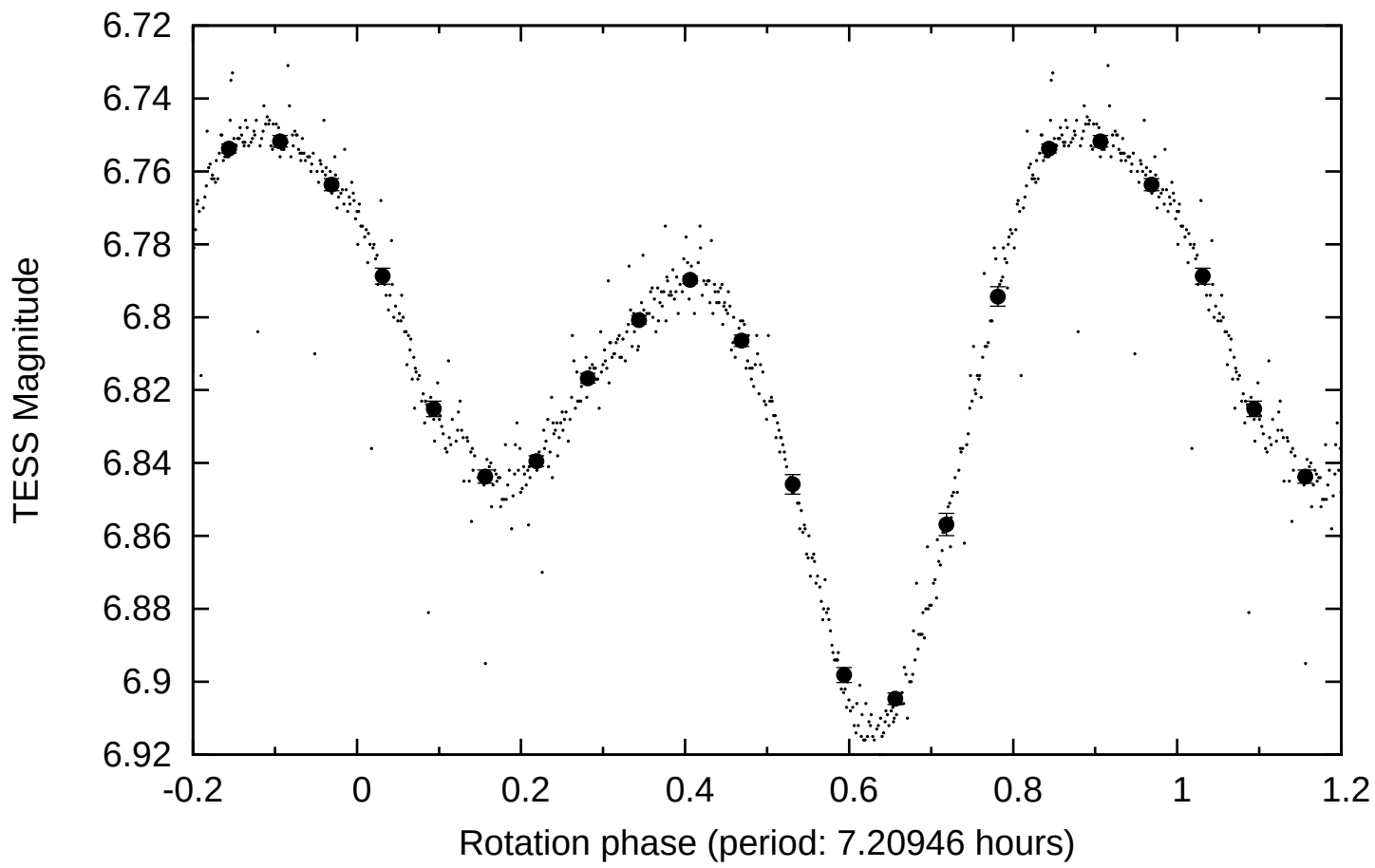
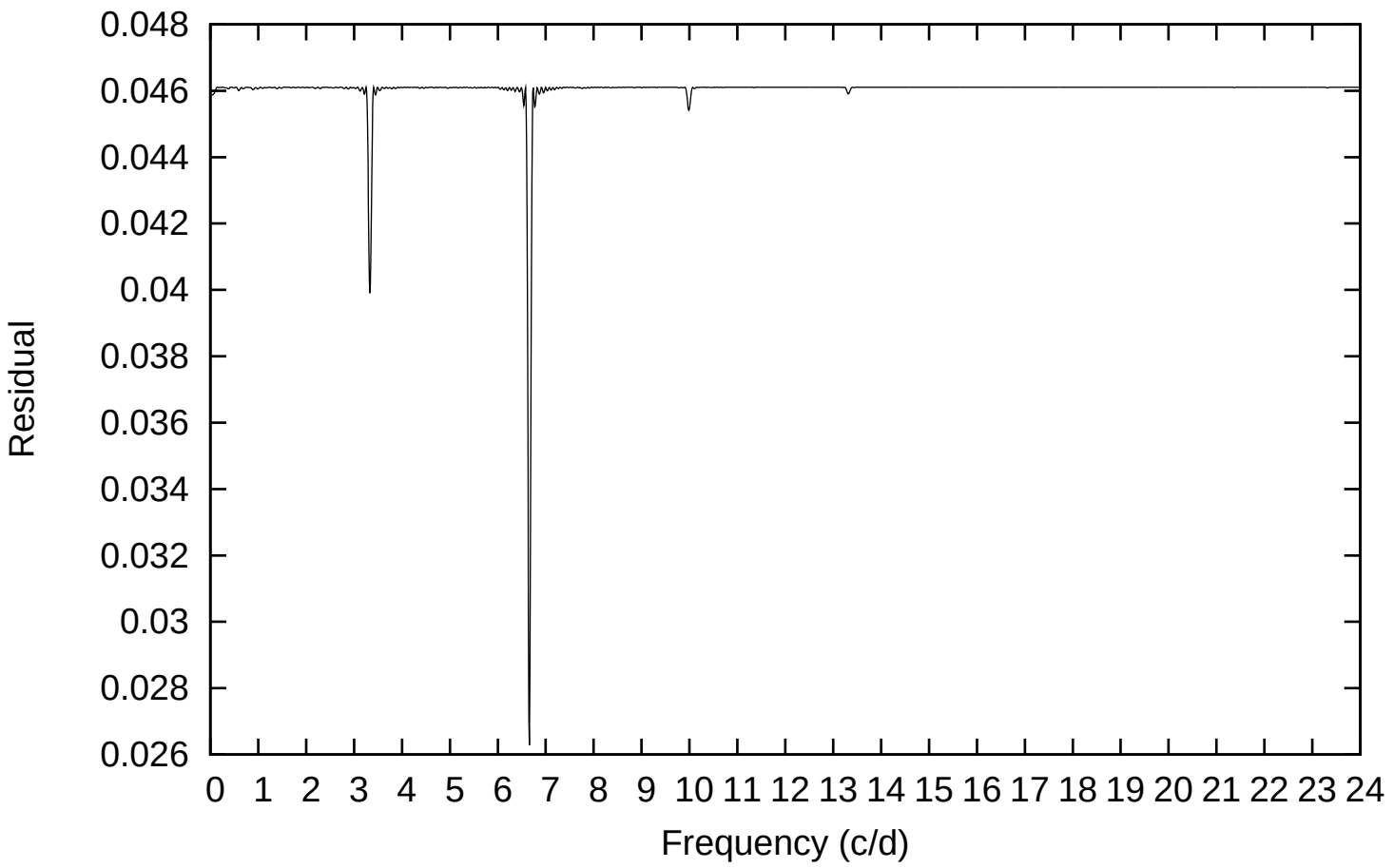
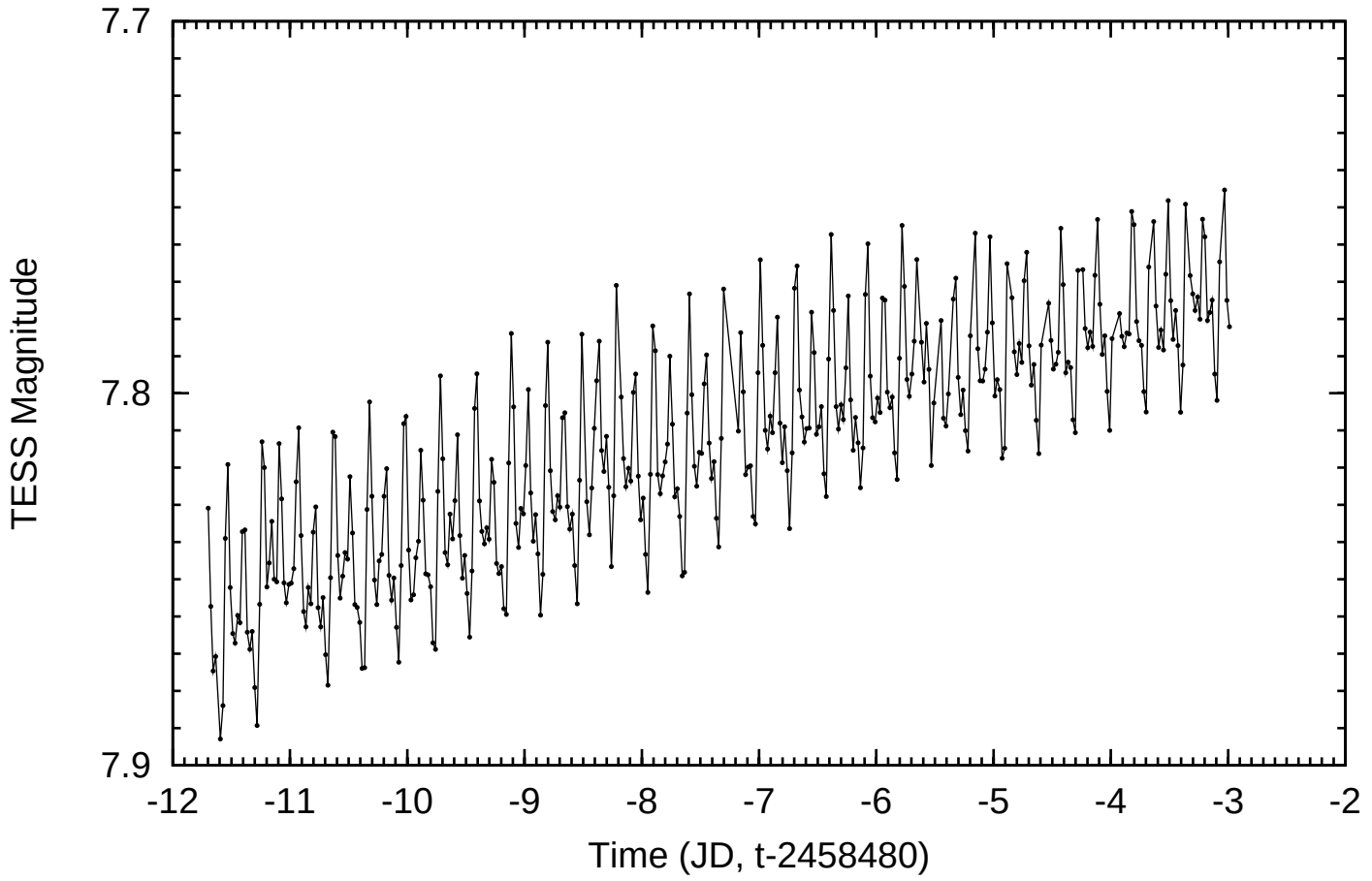
3

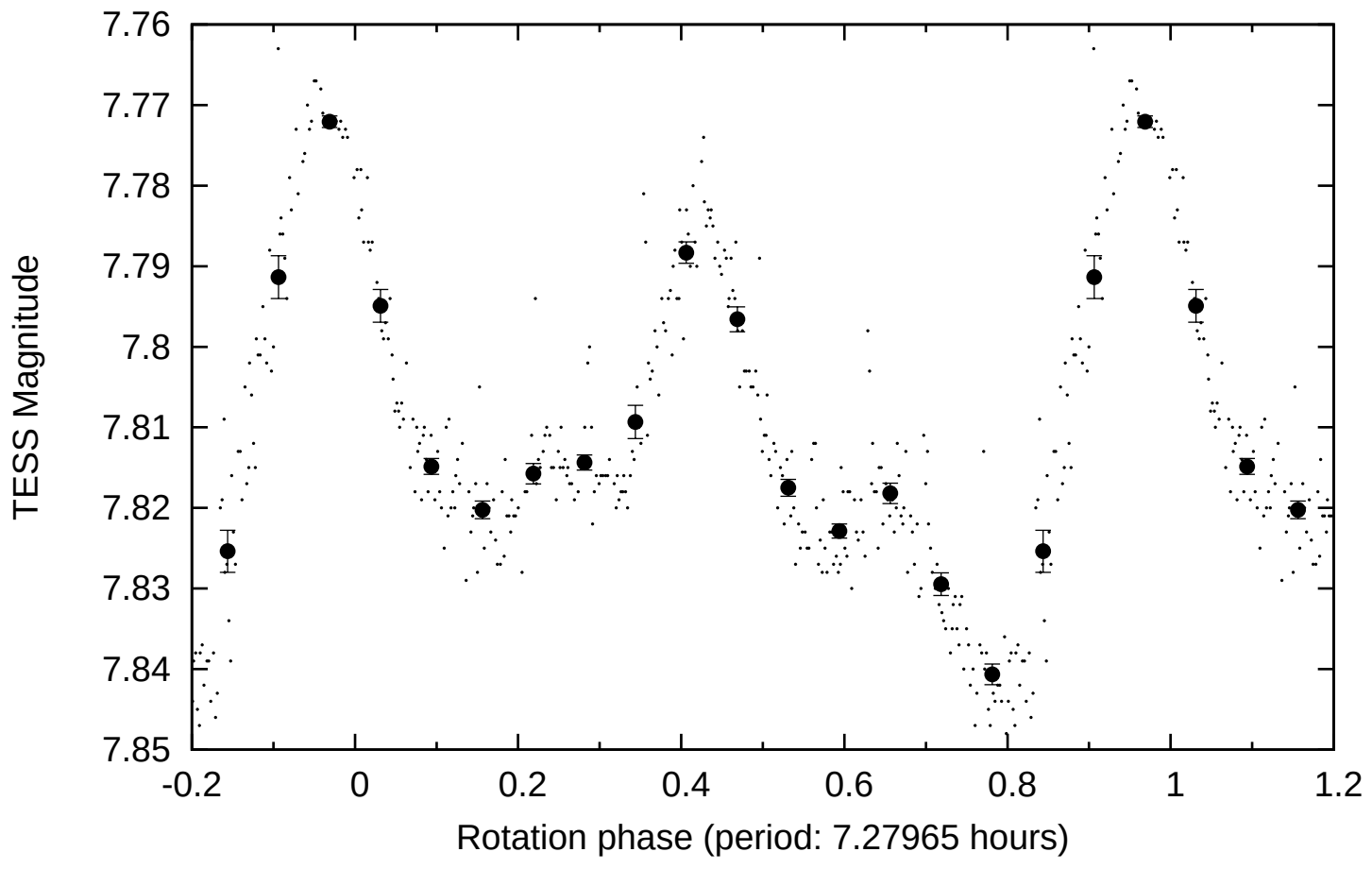

TESS Magnitude
6.7
6.8
6.9
7
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2
Time (JD, t-2458450)

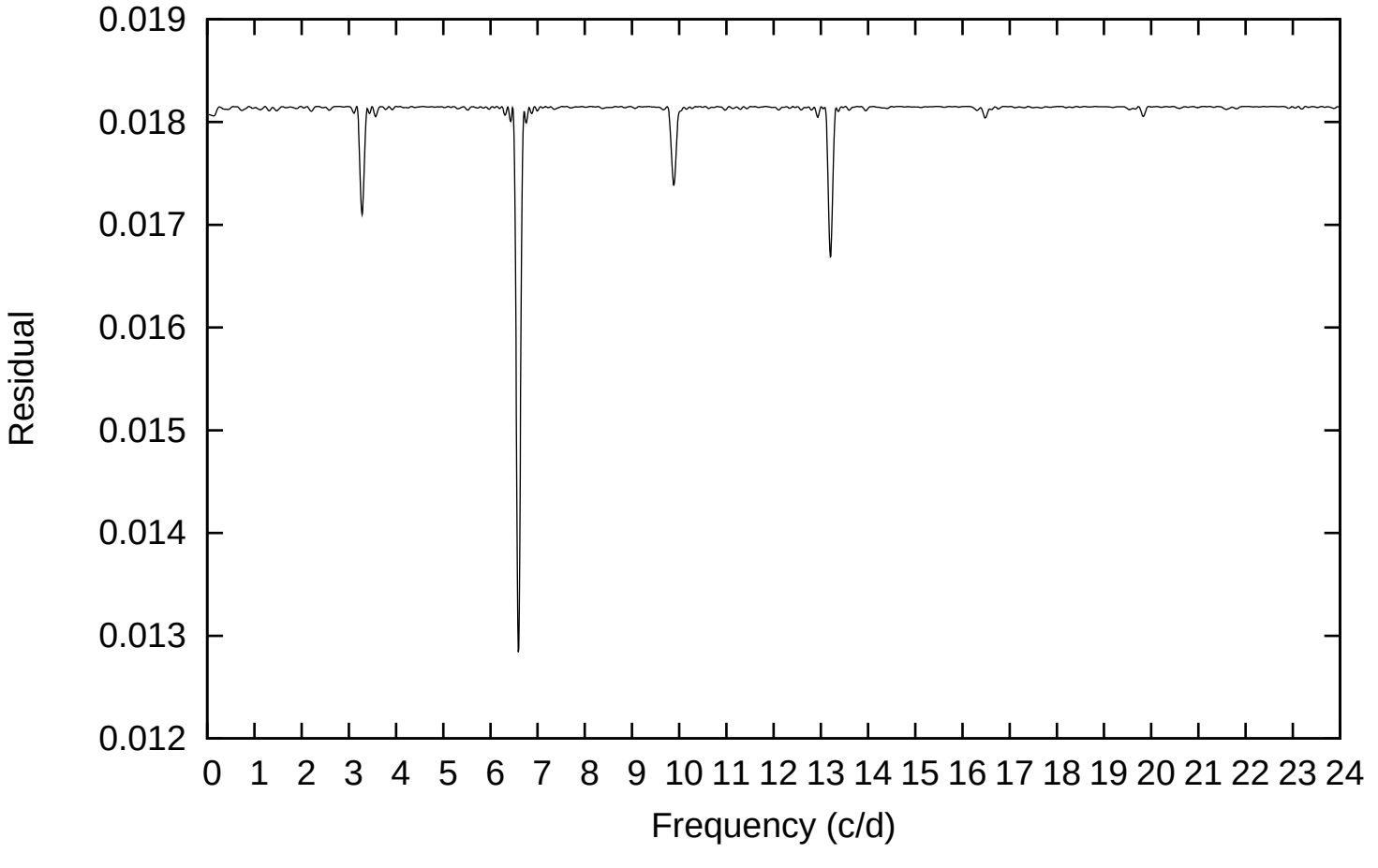

TESS Magnitude
6.72
6.74
6.76
6.78
6.8
6.82
6.84
6.86
6.88
6.9
6.92
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.20946 hours)


Residual
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

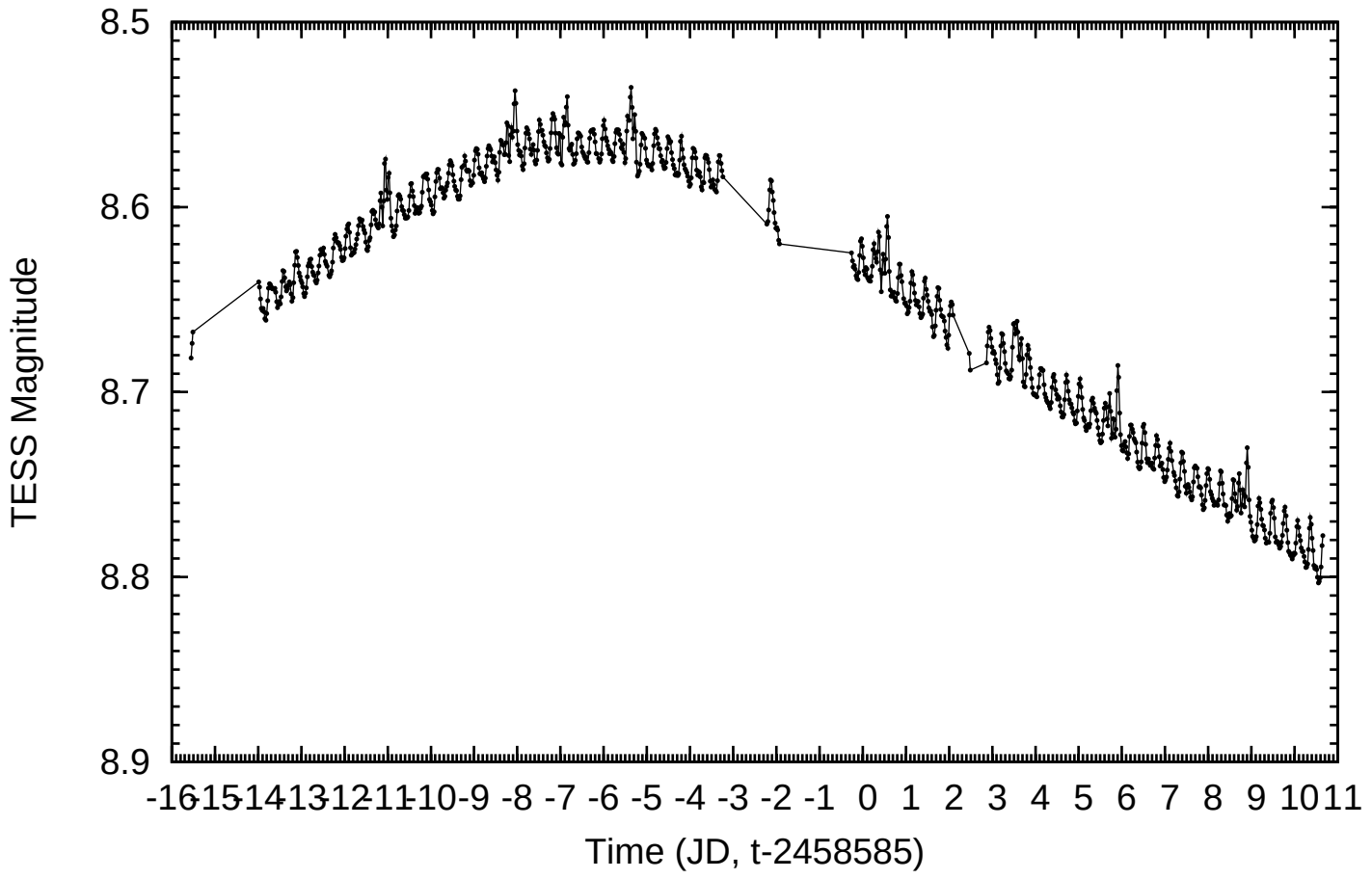
6

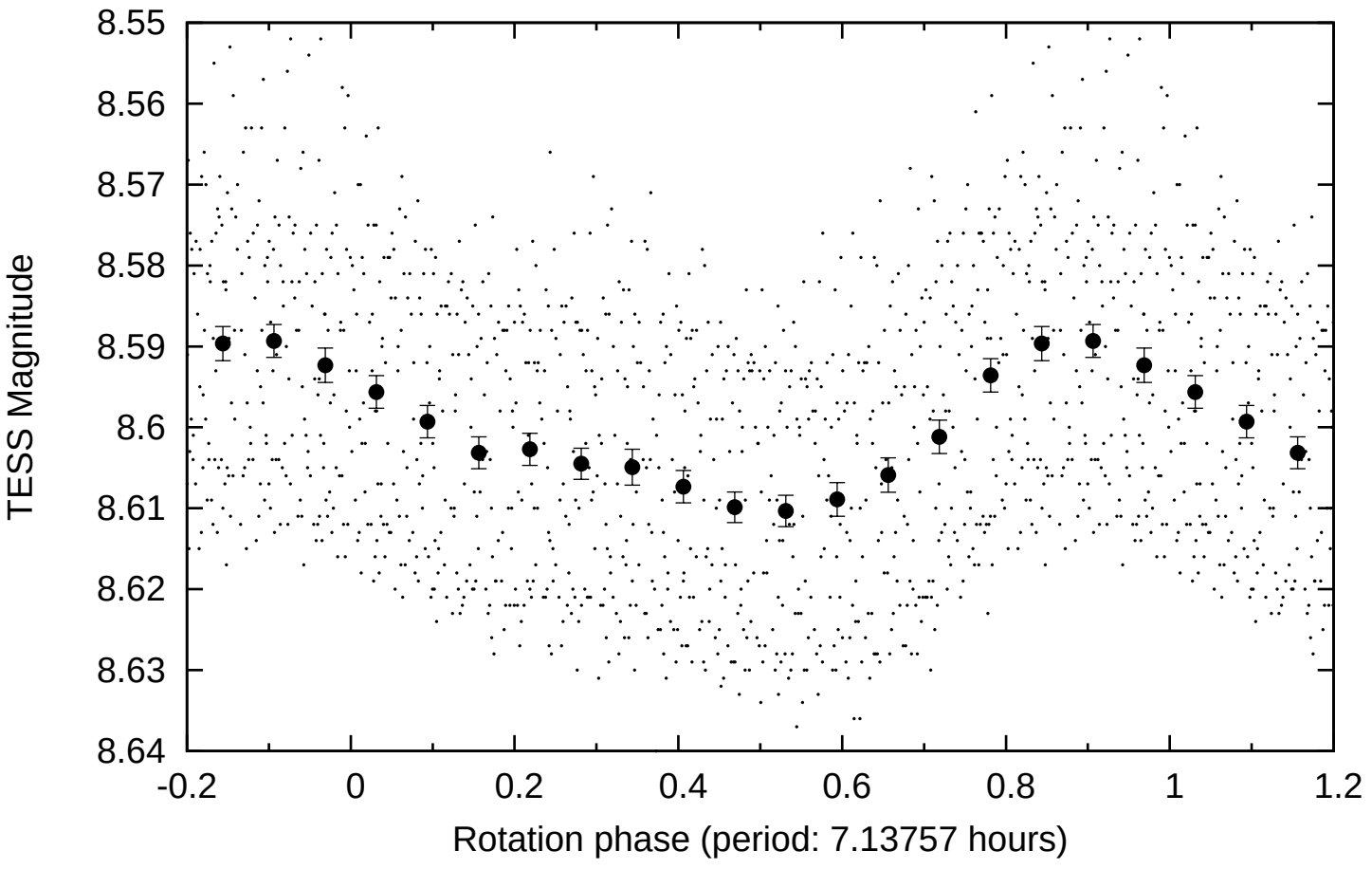

7.7
7.8
7.9
TESS Magnitude
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
Time (JD, t-2458480)

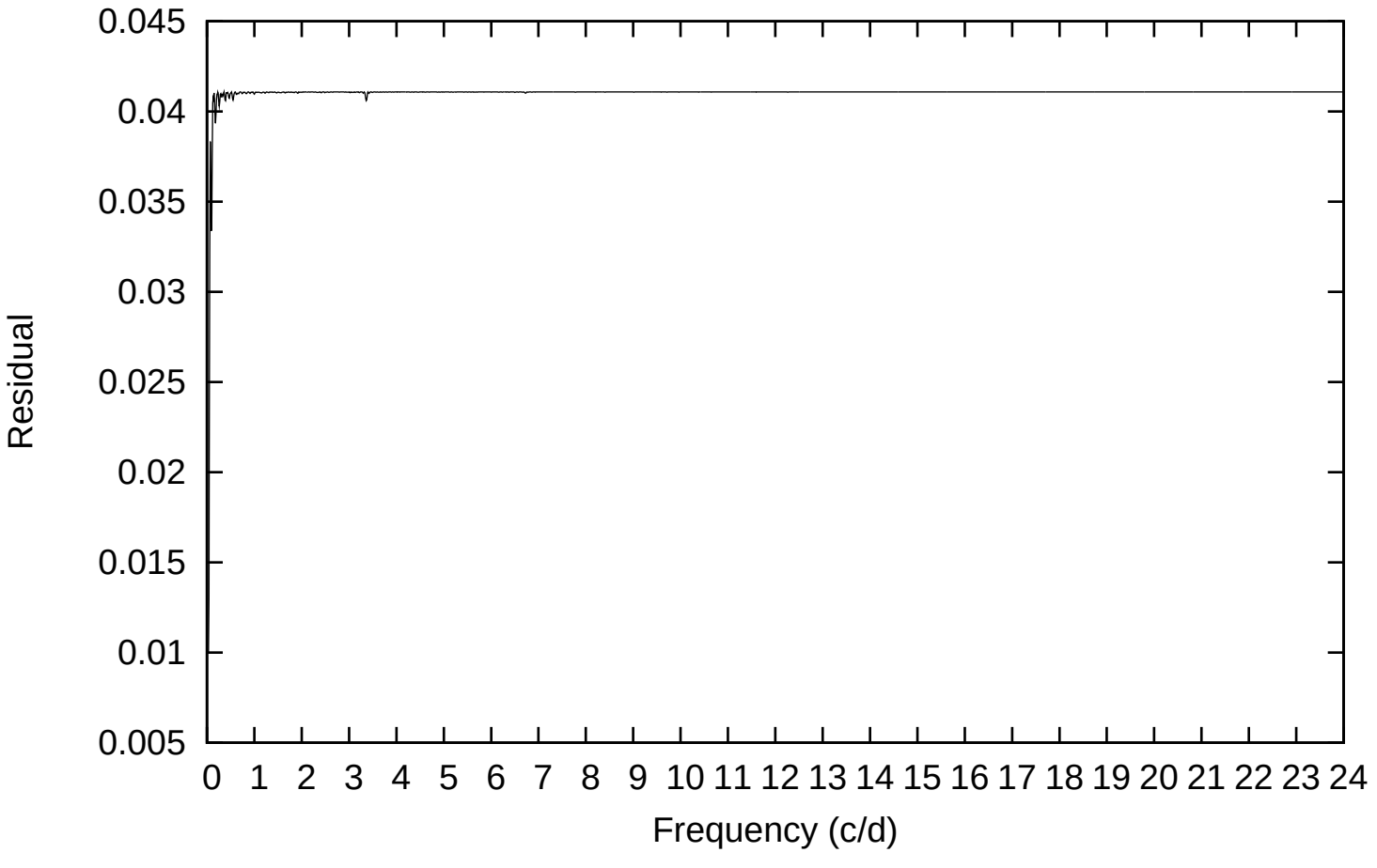

7.76
7.77
7.78
7.79
7.8
7.81
7.82
7.83
7.84
7.85
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 7.27965 hours)


0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

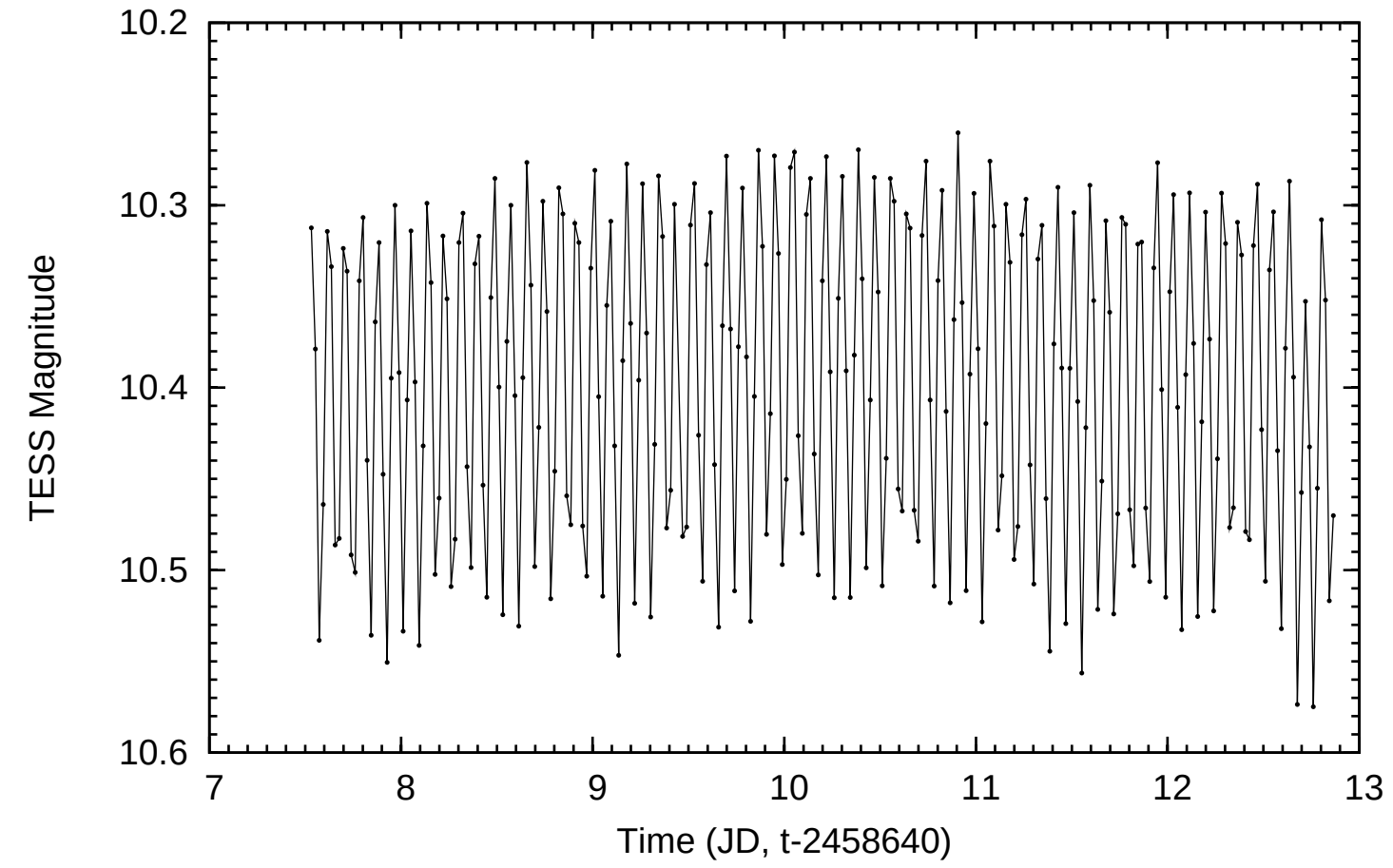
7

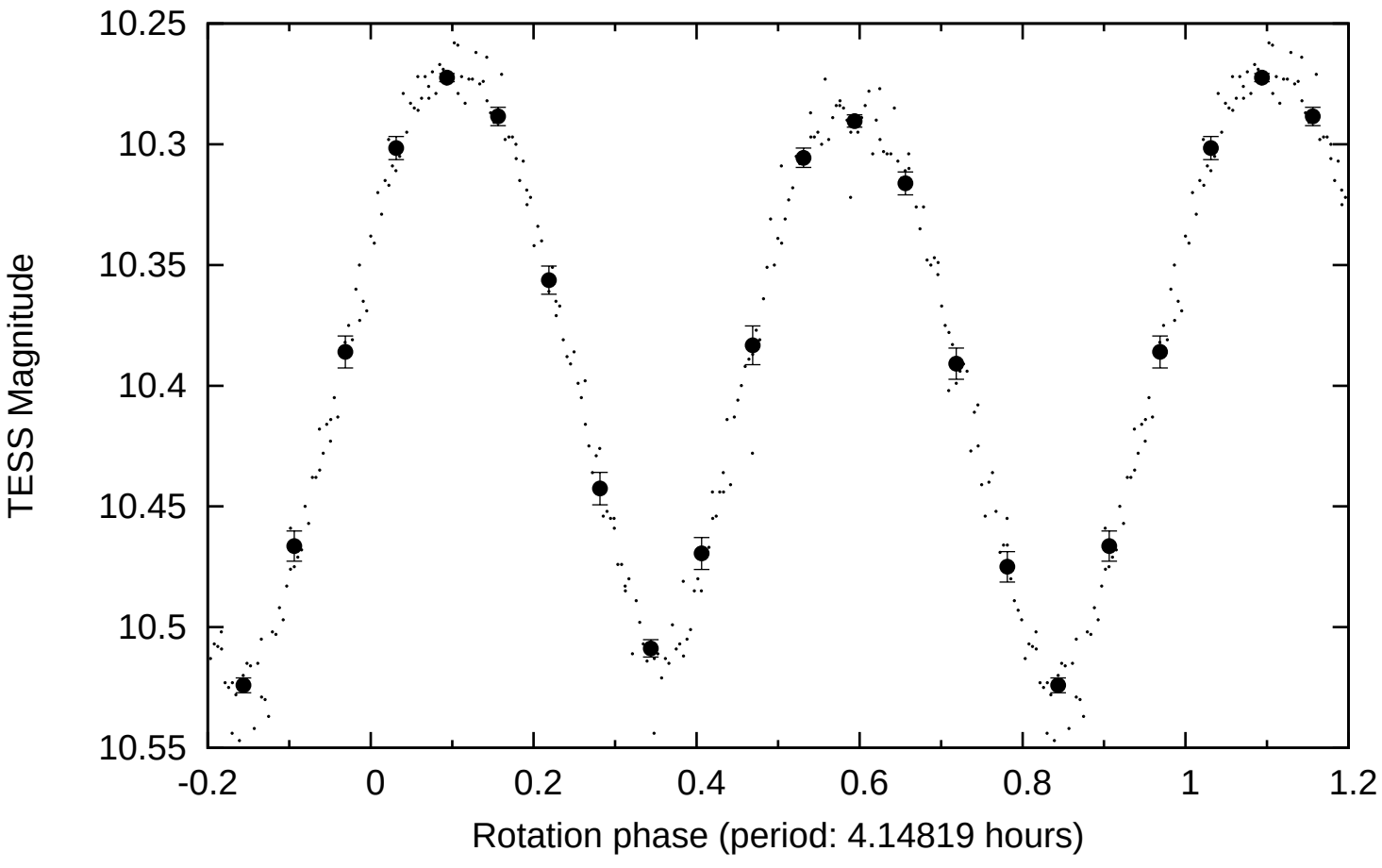

TESS Magnitude
8.5
8.6
8.7
8.8
8.9
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458585)

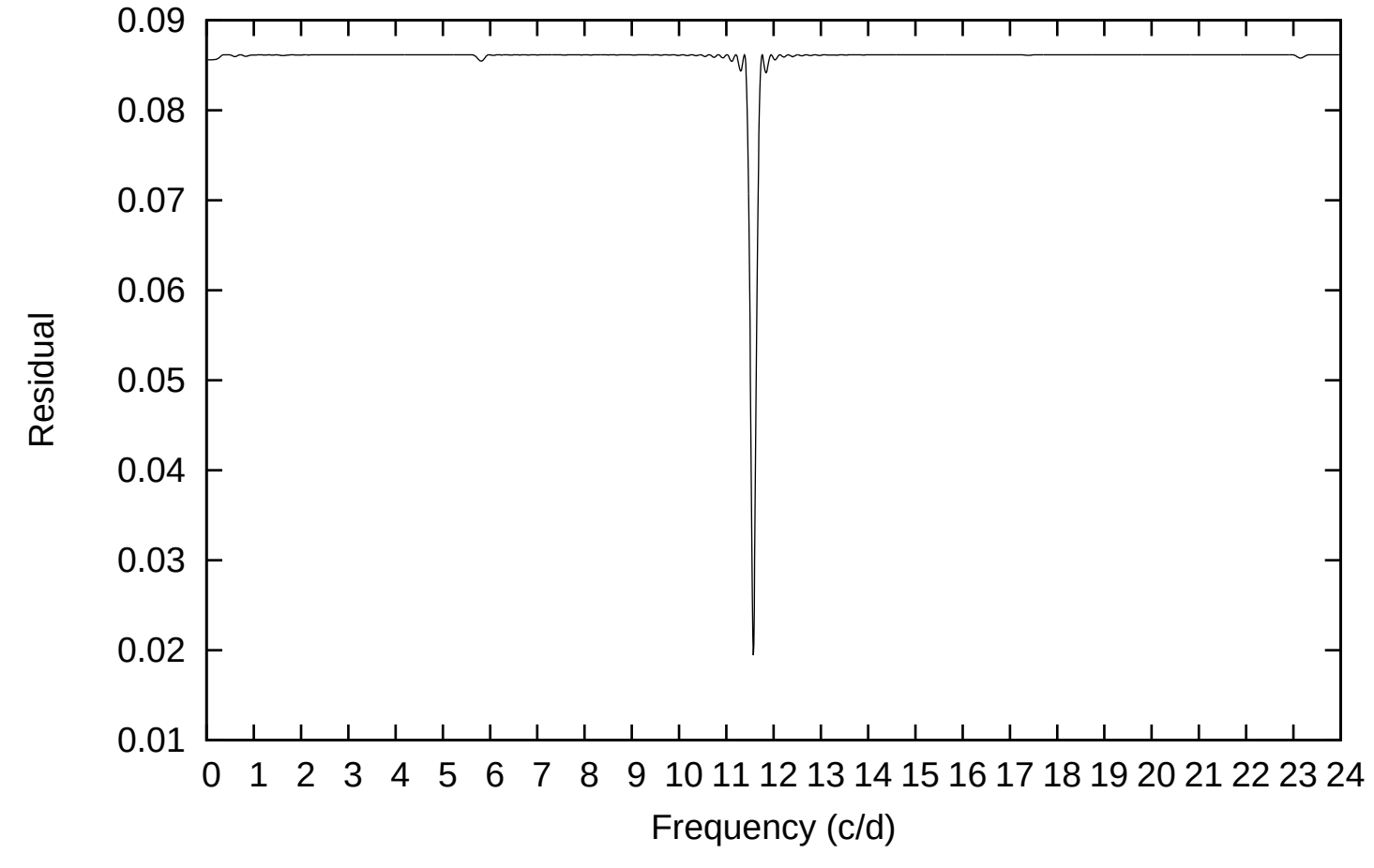

TESS Magnitude
8.55
8.56
8.57
8.58
8.59
8.6
8.61
8.62
8.63
8.64
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.13757 hours)


Residual
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

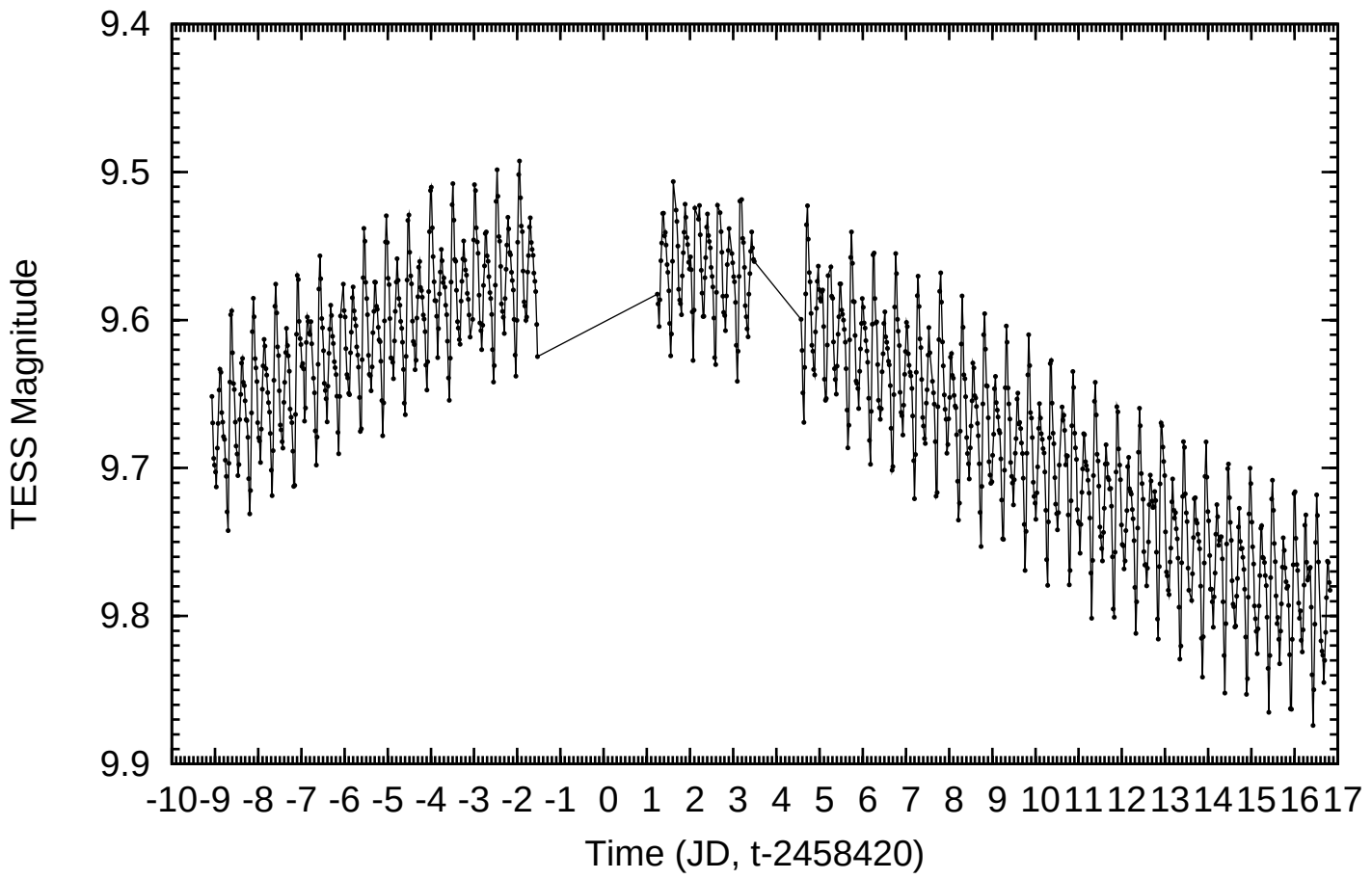
22

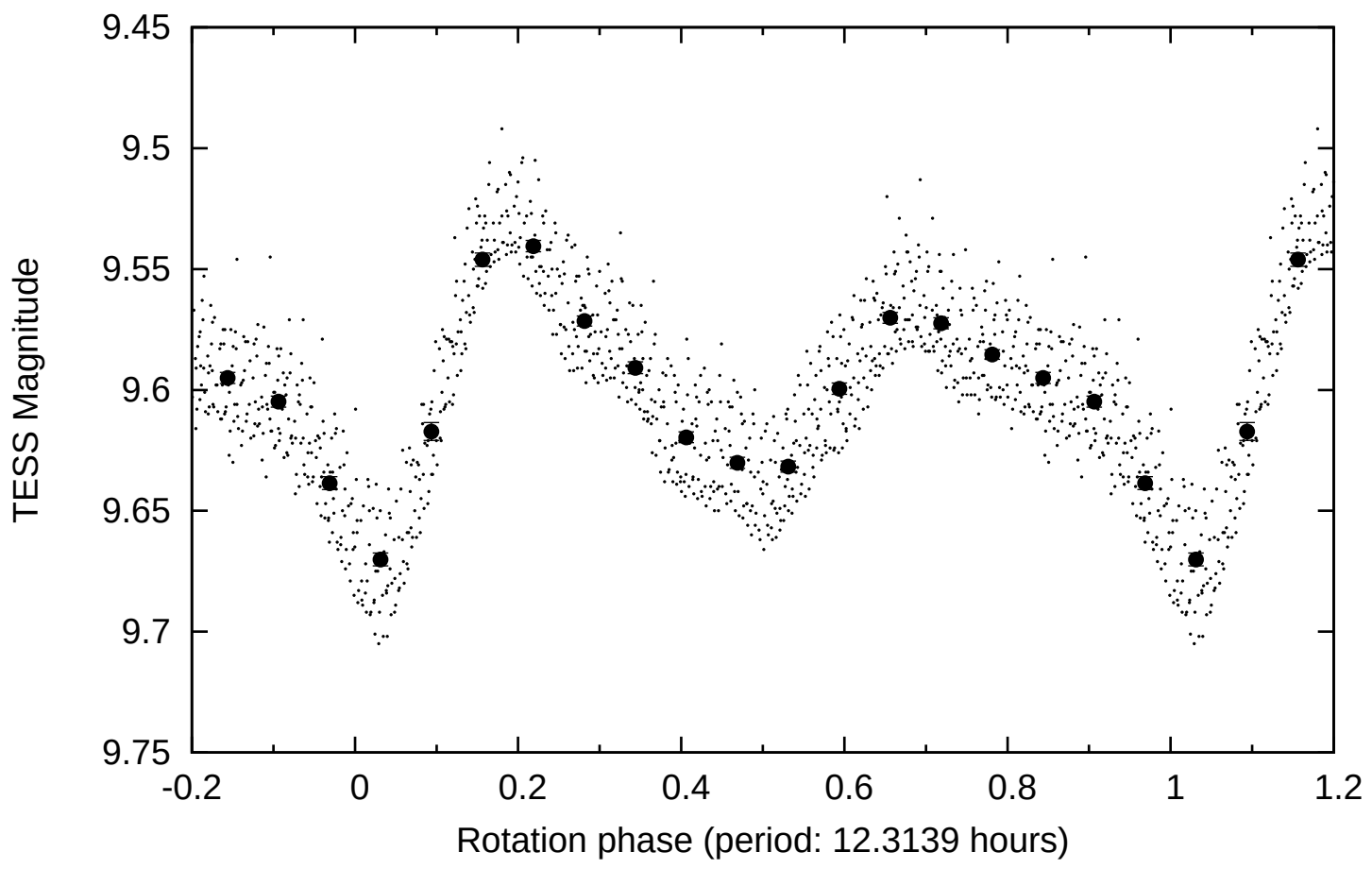

10.2
10.3
10.4
10.5
10.6
TESS Magnitude
7
8
9
10
11
12
13
Time (JD, t-2458640)

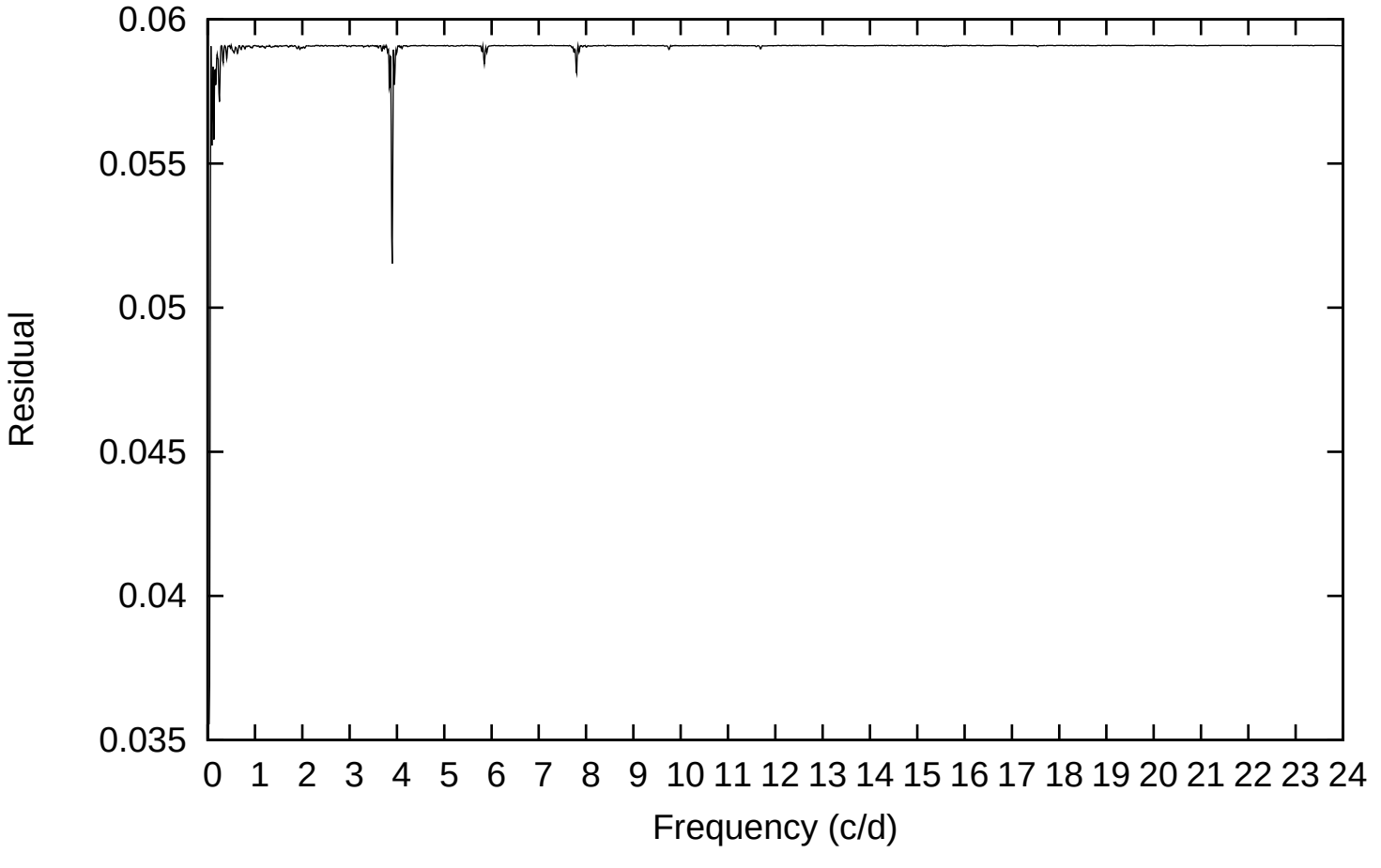

10.25
10.3
10.35
10.4
10.45
10.5
10.55
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 4.14819 hours)


0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

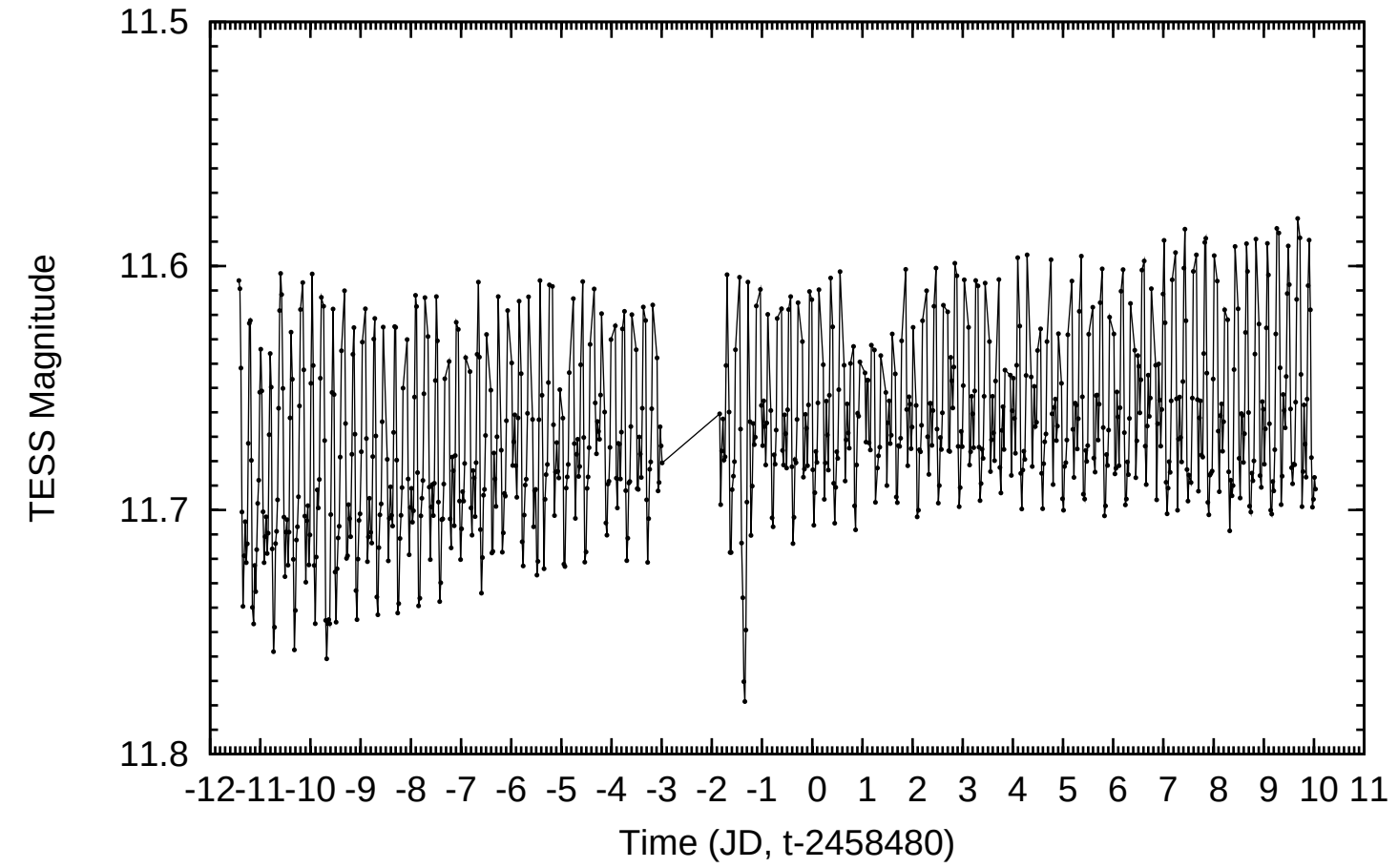
23

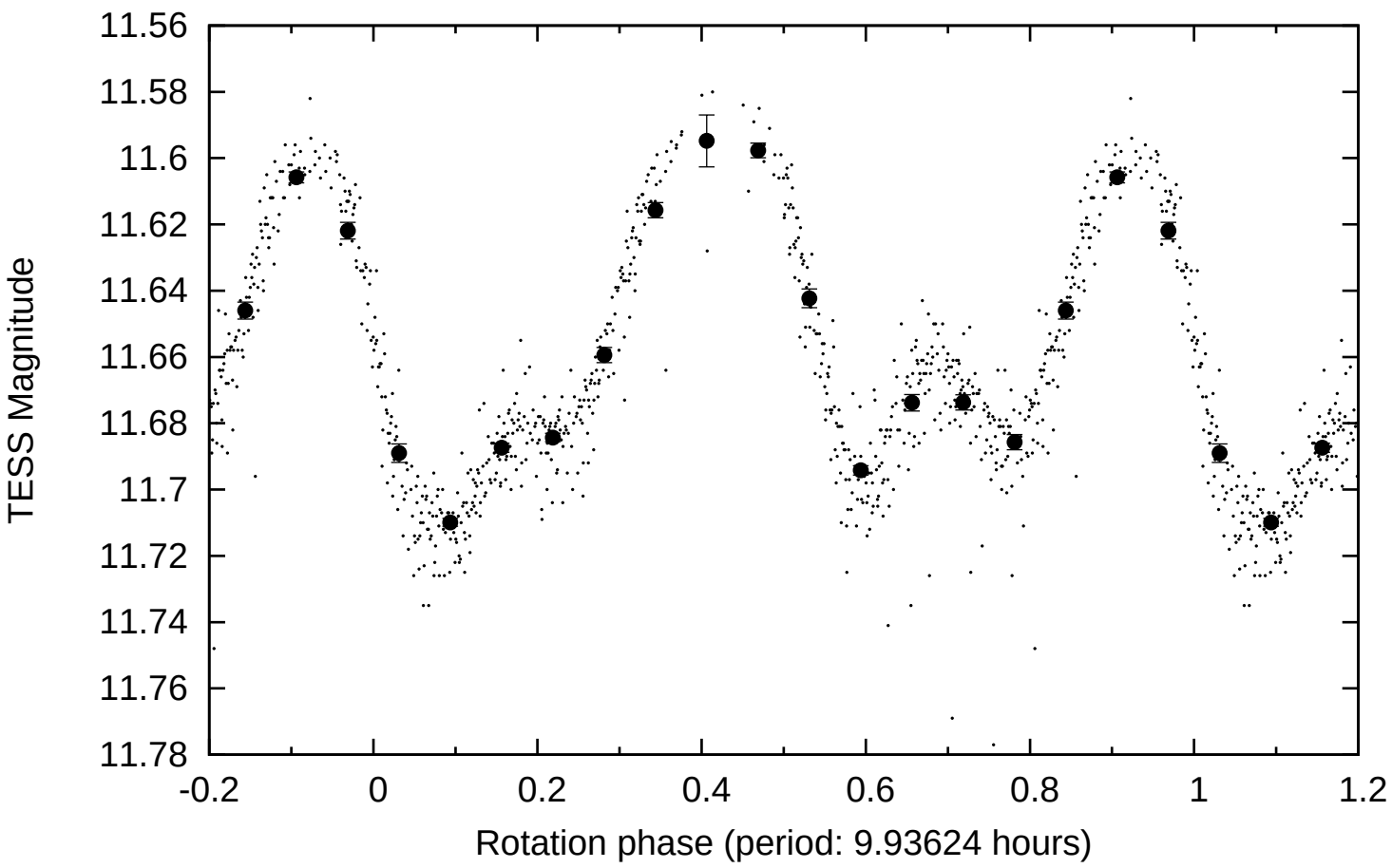

TESS Magnitude
9.4
9.5
9.6
9.7
9.8
9.9
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Time (JD, t-2458420)

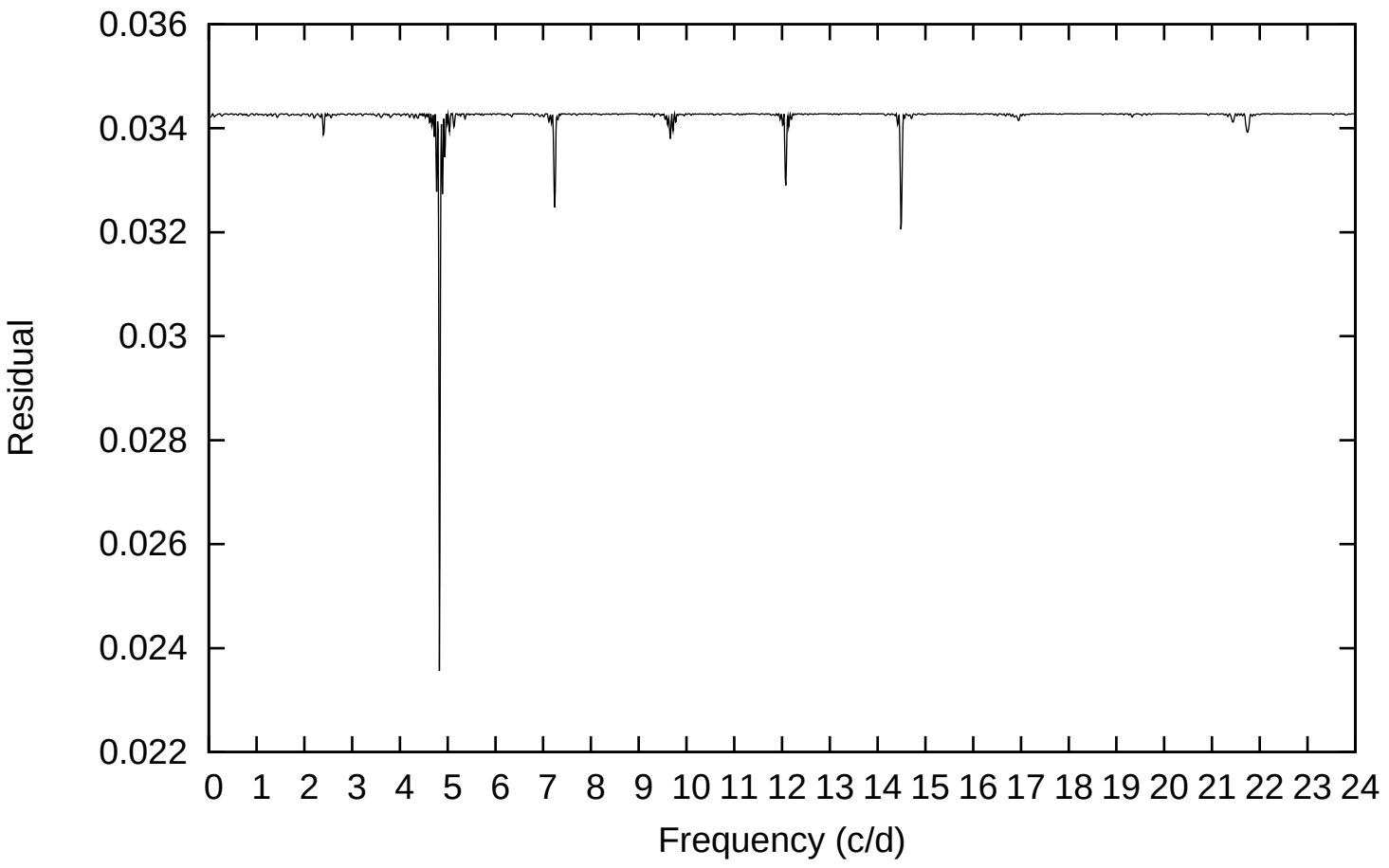

TESS Magnitude
9.45
9.5
9.55
9.6
9.65
9.7
9.75
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 12.3139 hours)


Residual
0.06
0.055
0.05
0.045
0.04
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

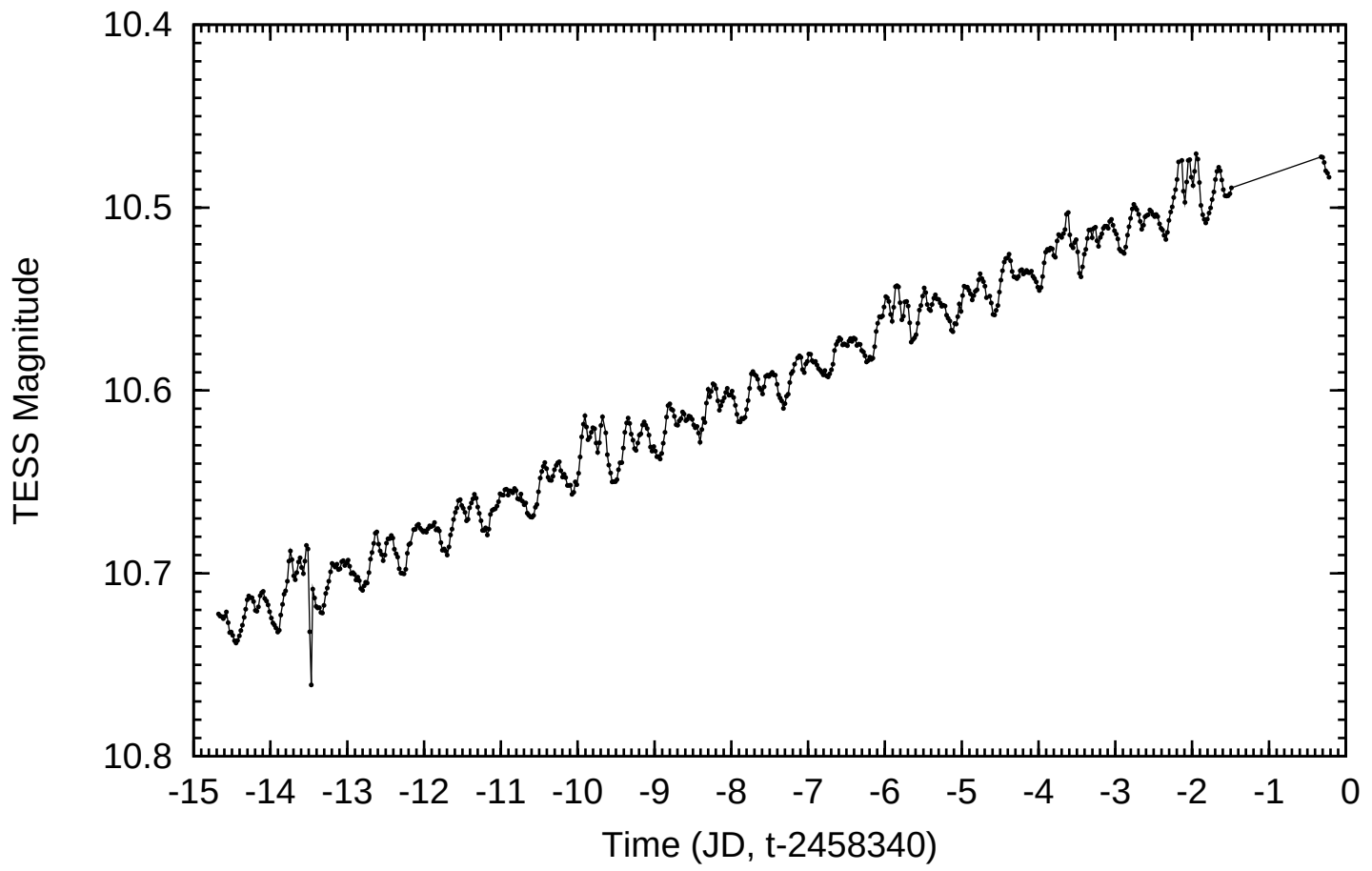
25

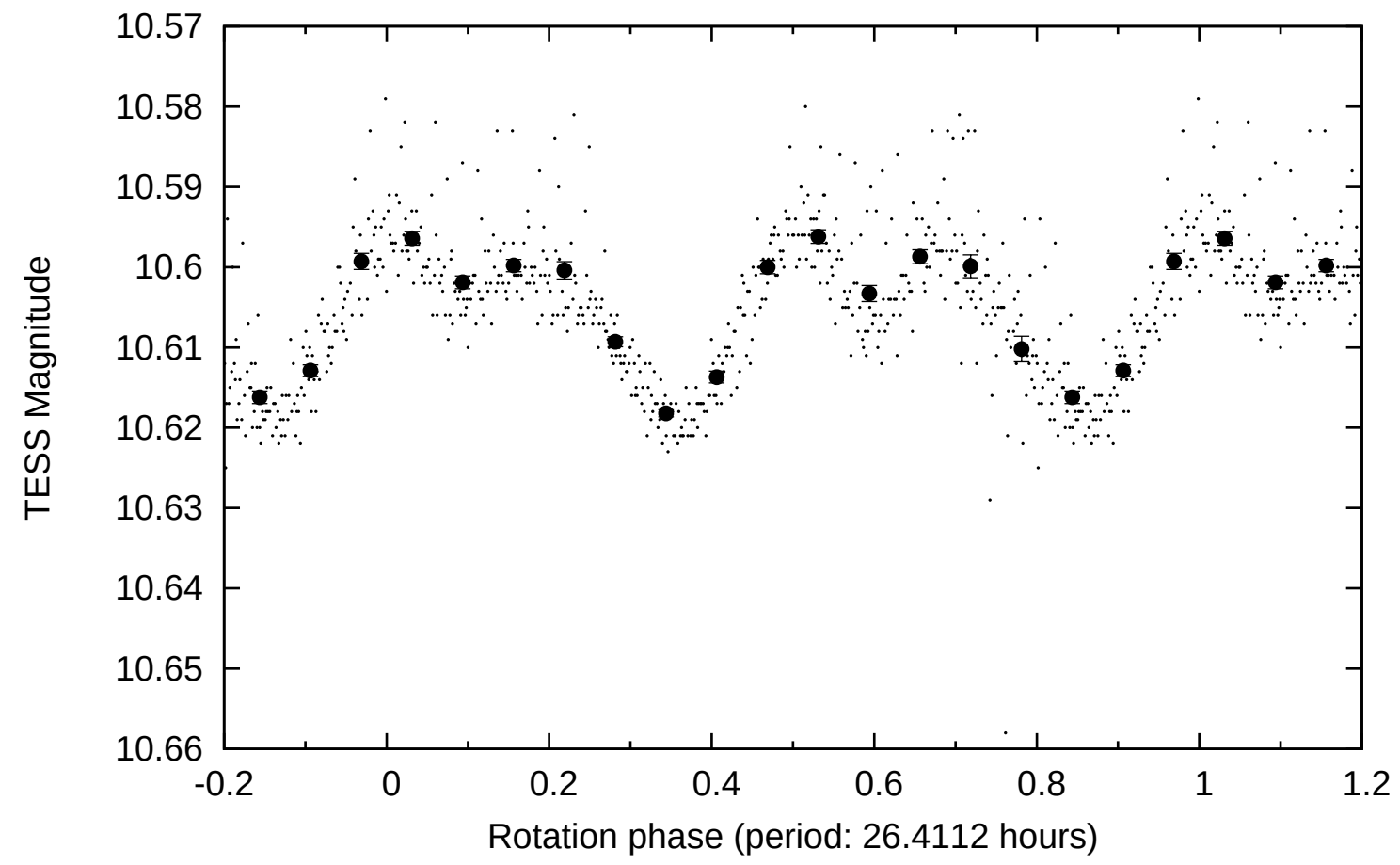

11.5
11.6
11.7
11.8
TESS Magnitude
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458480)

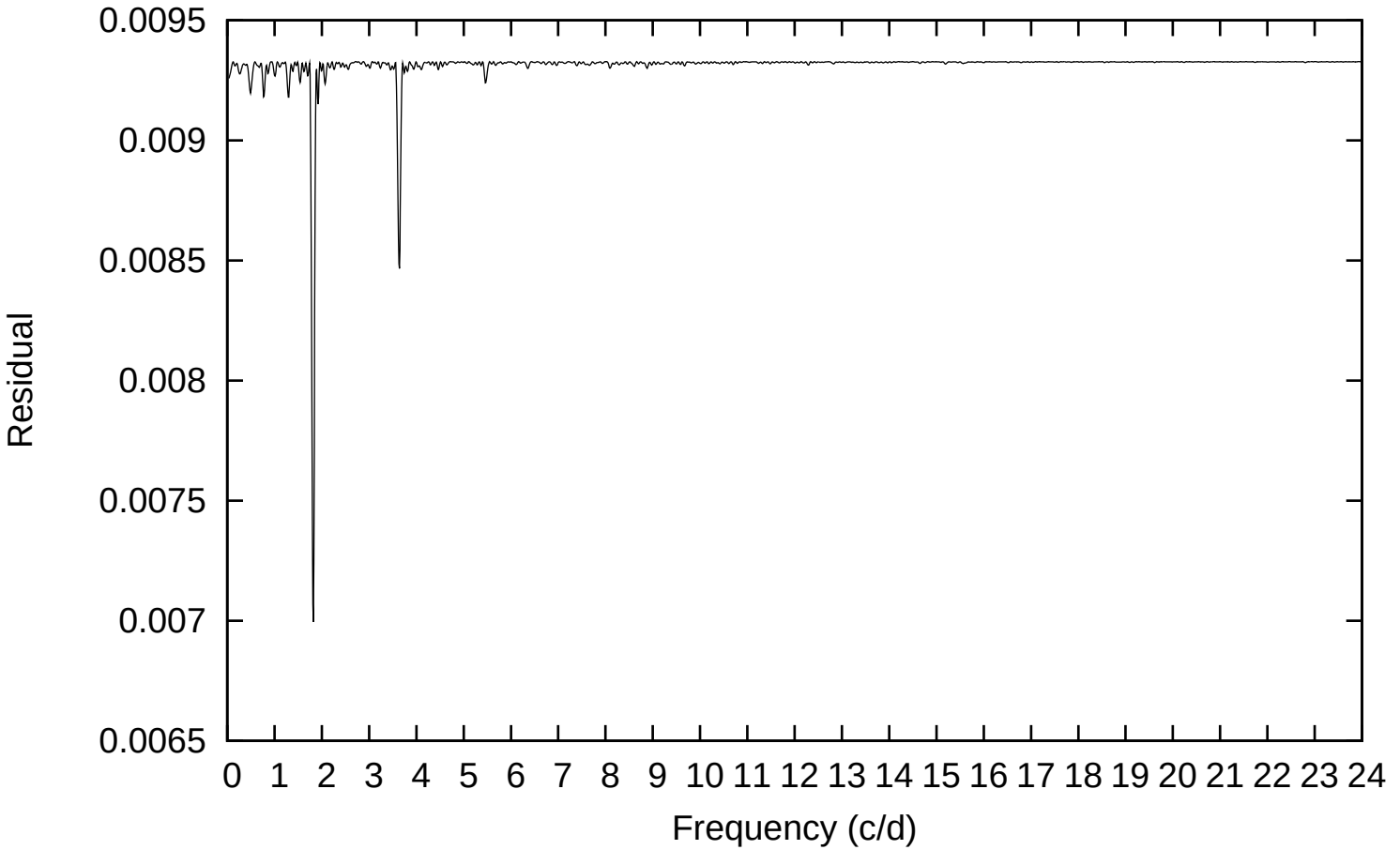

11.56
11.58
11.6
11.62
11.64
11.66
11.68
11.7
11.72
11.74
11.76
11.78
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 9.93624 hours)


0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

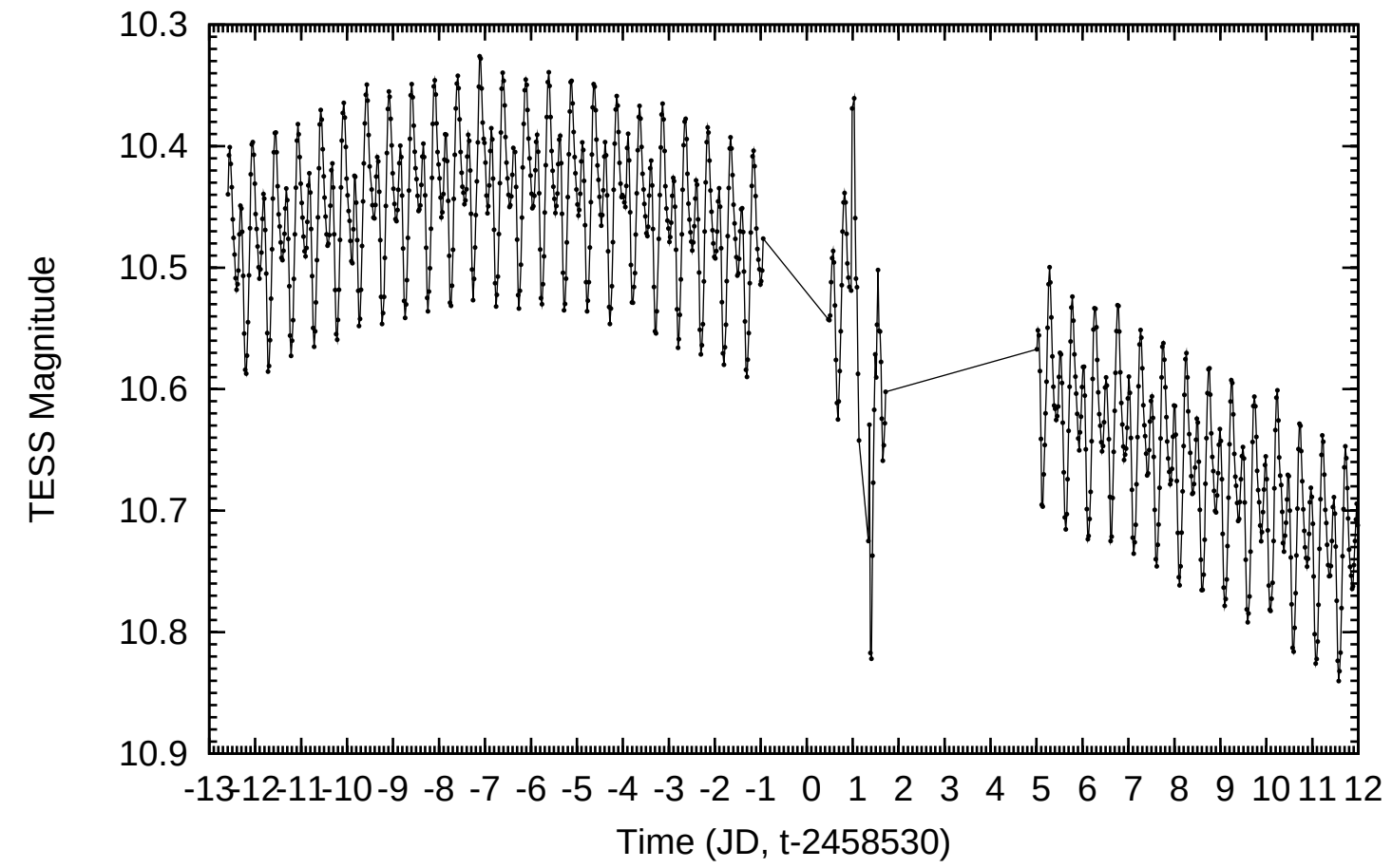
47

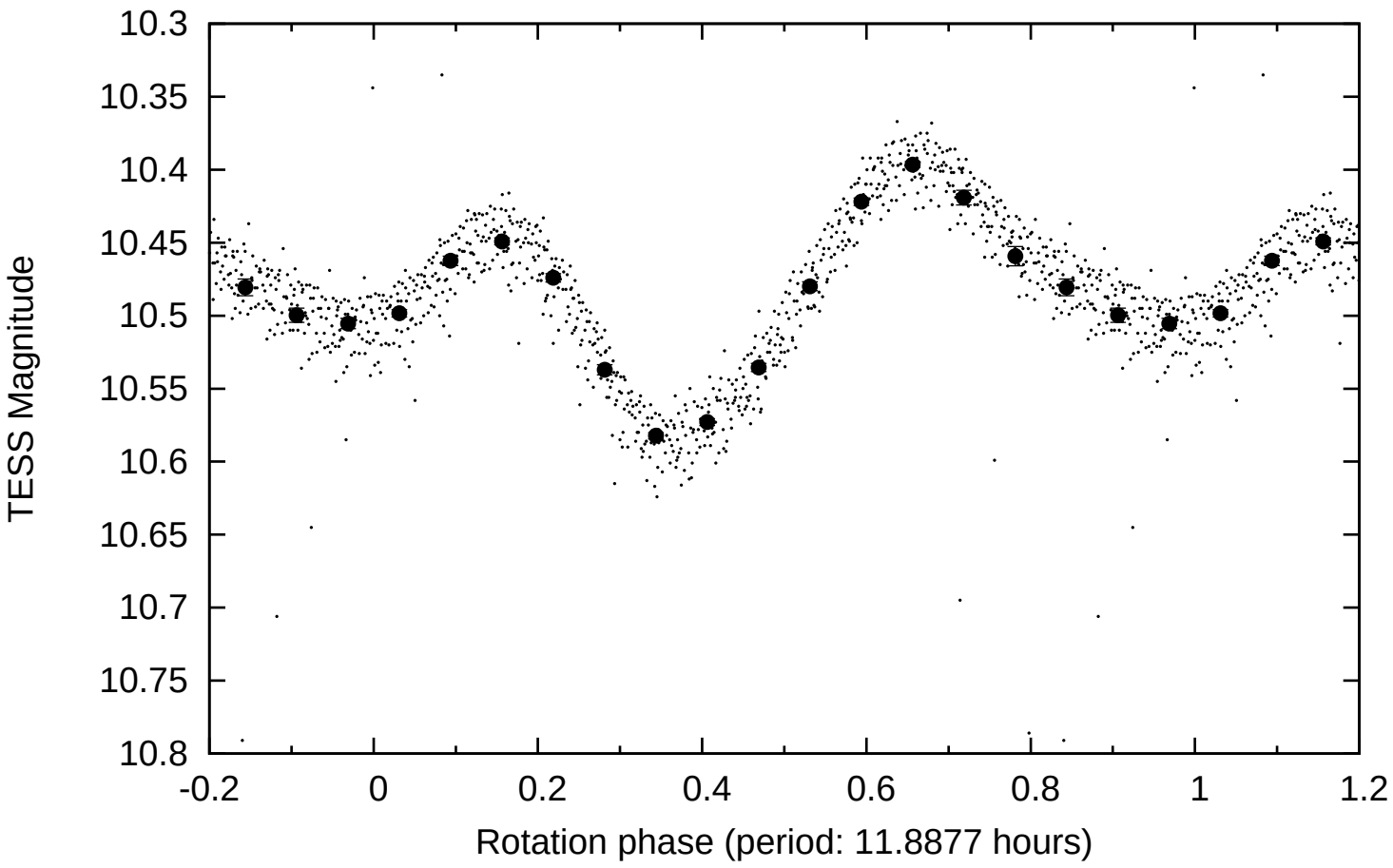

10.4
10.5
10.6
10.7
10.8
TESS Magnitude
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0
Time (JD, t-2458340)

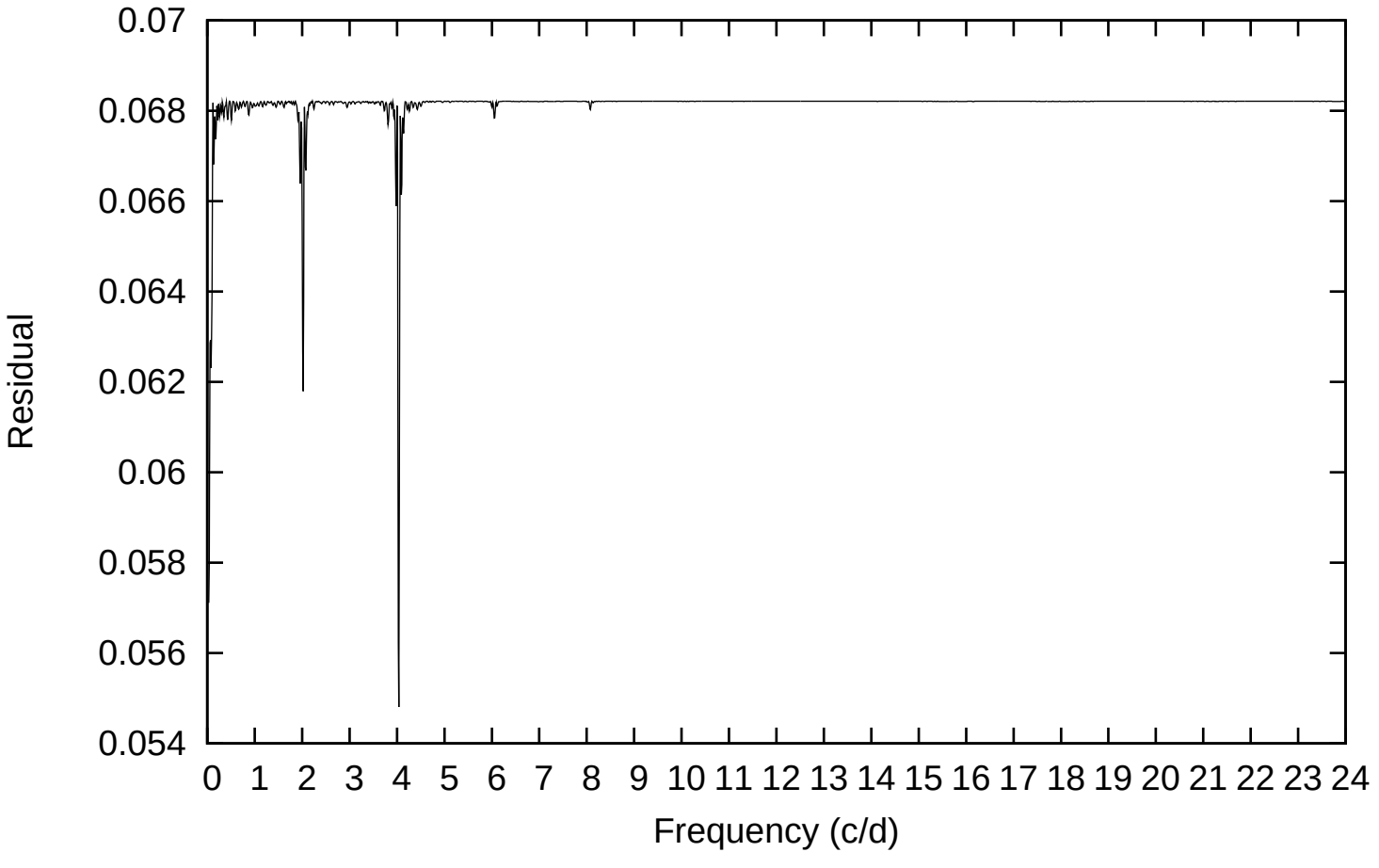

10.57
10.58
10.59
10.6
10.61
10.62
10.63
10.64
10.65
10.66
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 26.4112 hours)


0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

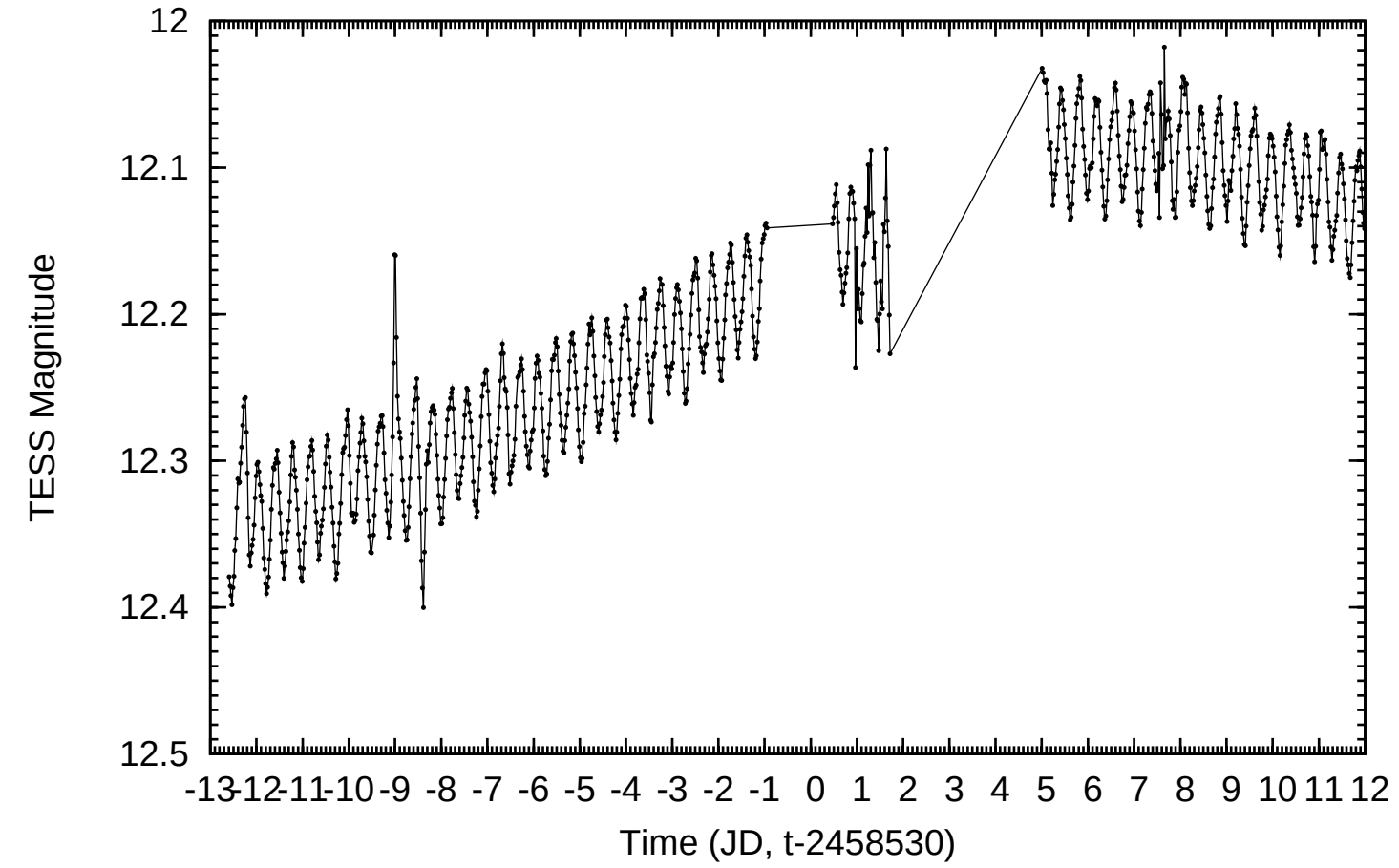
48

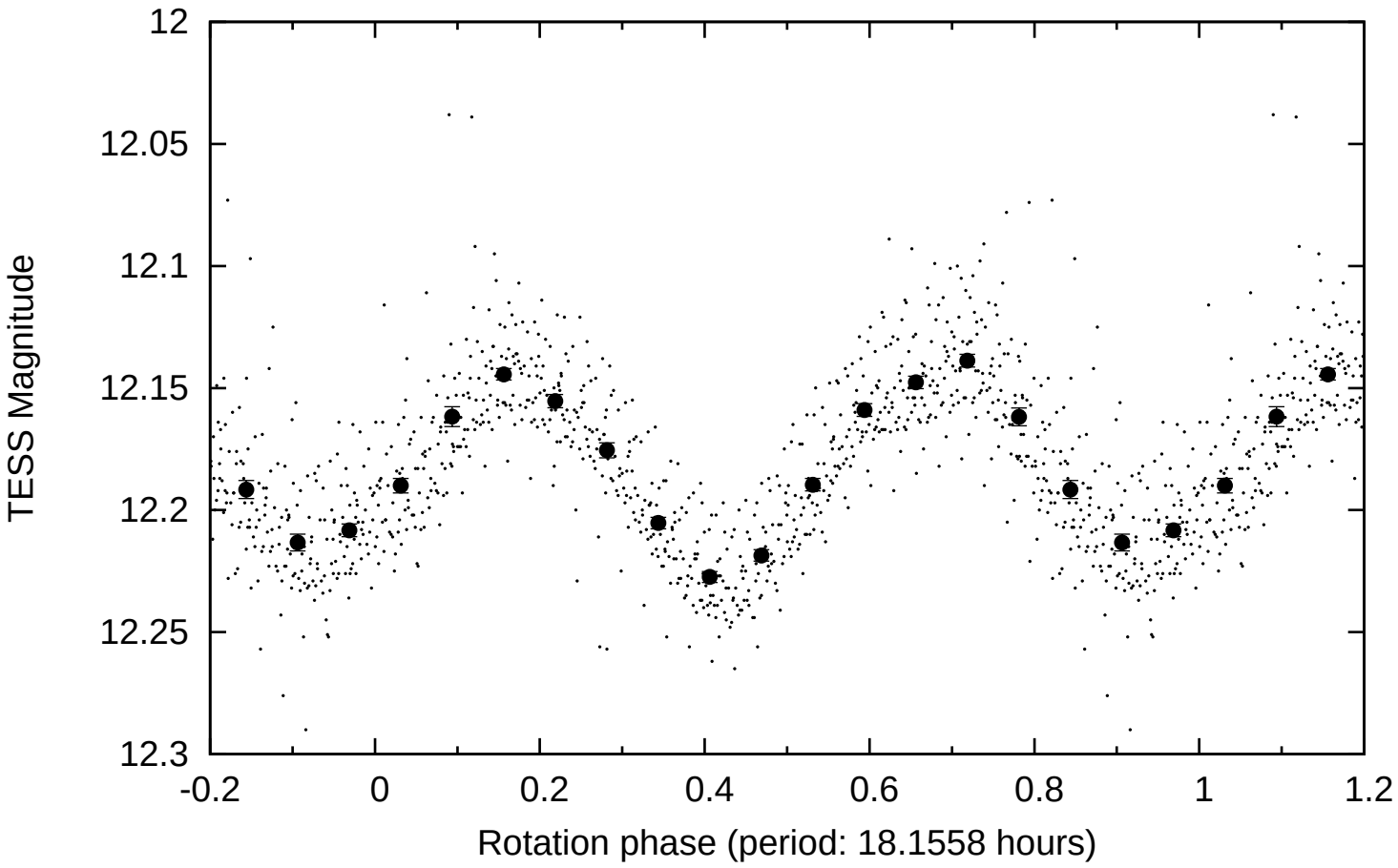

TESS Magnitude
10.3
10.4
10.5
10.6
10.7
10.8
10.9
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458530)

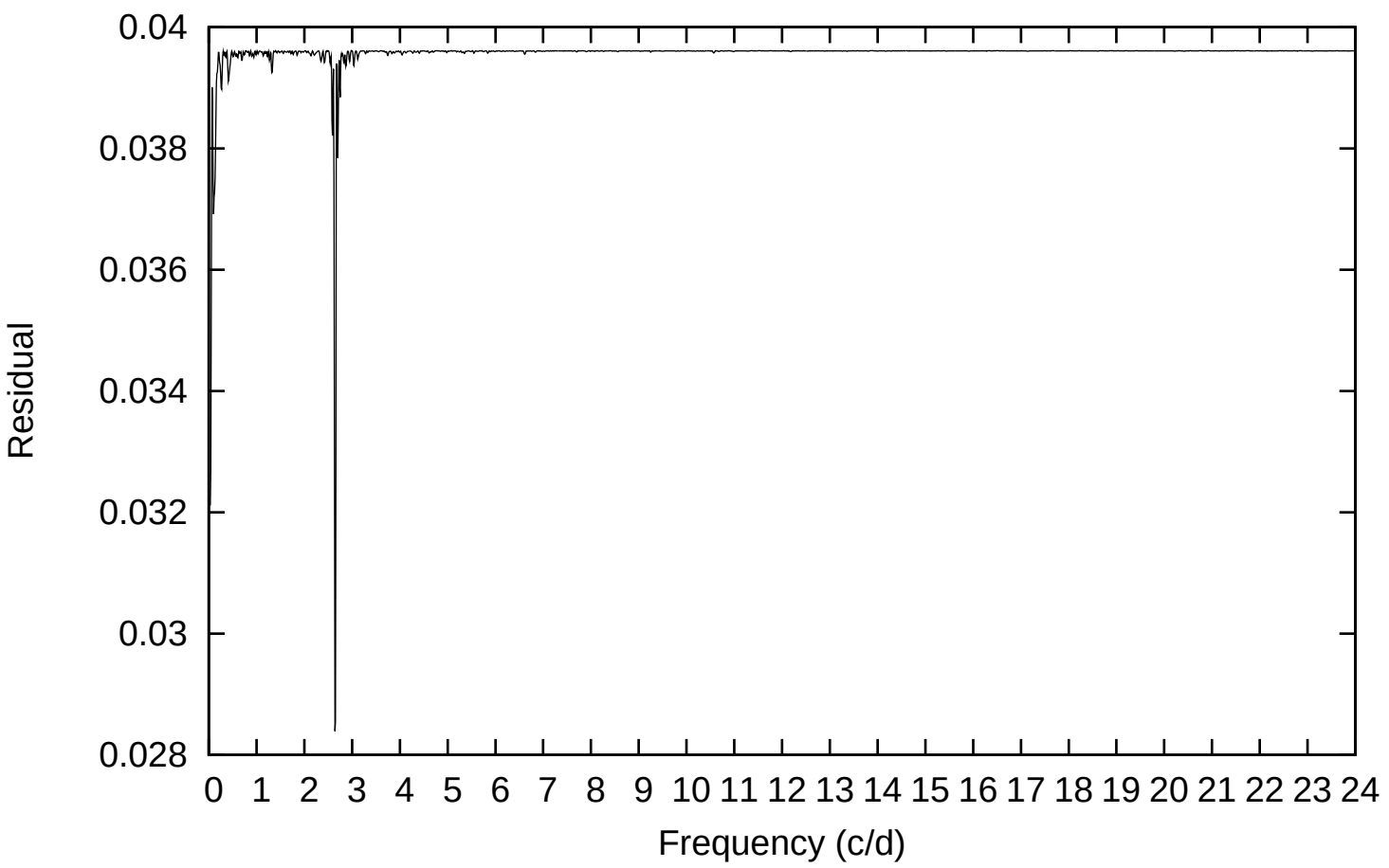

TESS Magnitude
10.3
10.35
10.4
10.45
10.5
10.55
10.6
10.65
10.7
10.75
10.8
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 11.8877 hours)


Residual
0.07
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

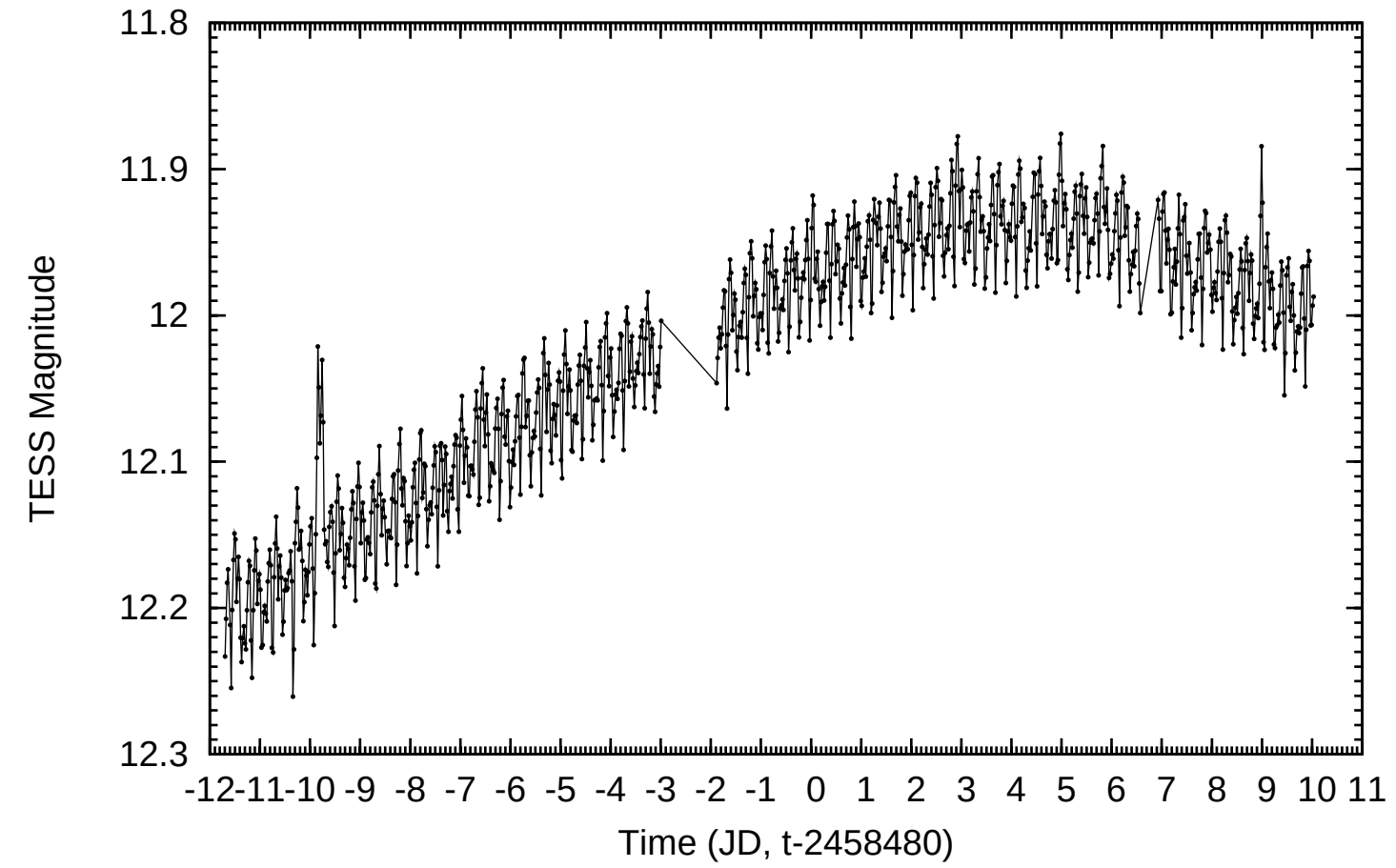
56

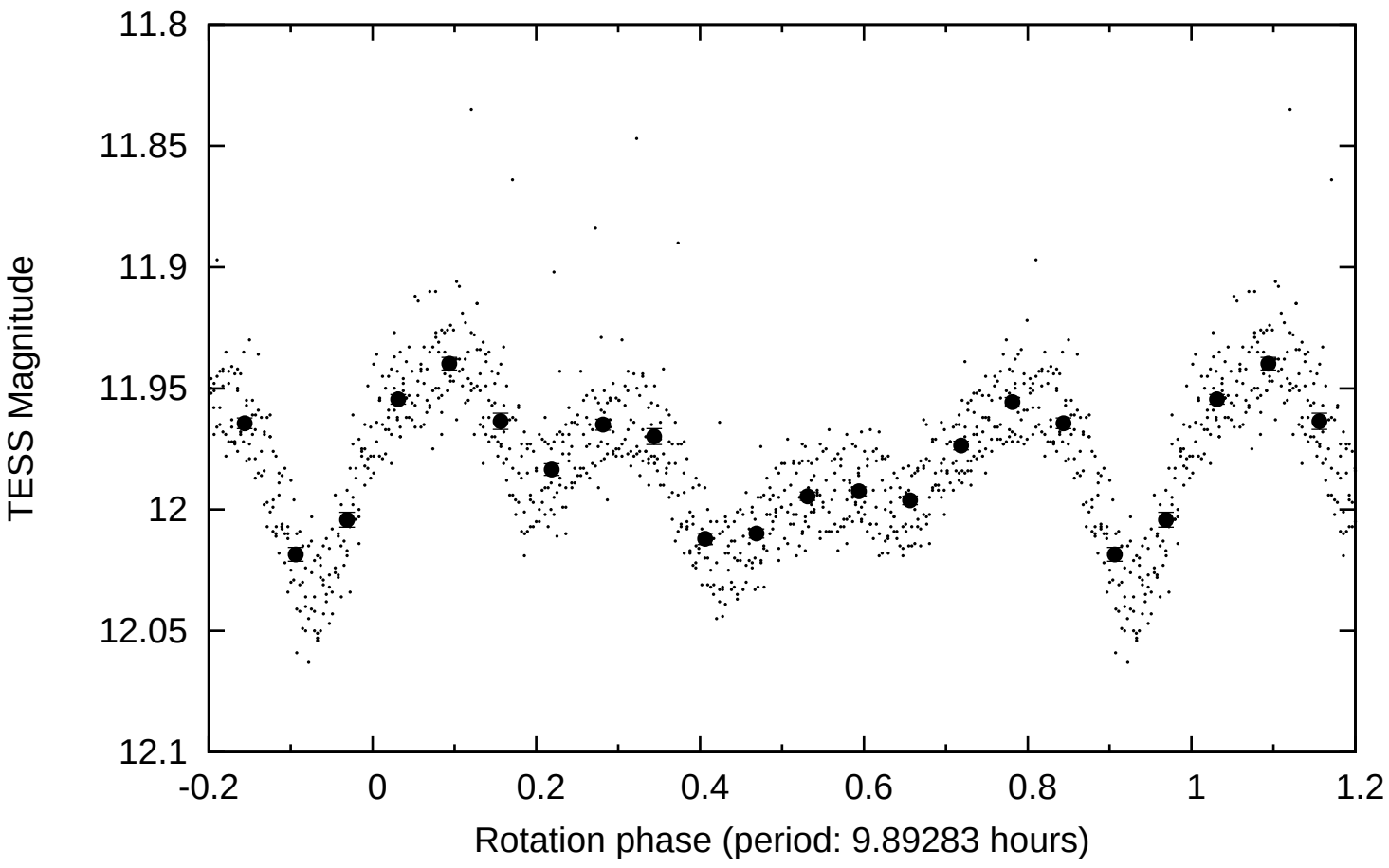

TESS Magnitude
12
12.1
12.2
12.3
12.4
12.5
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458530)

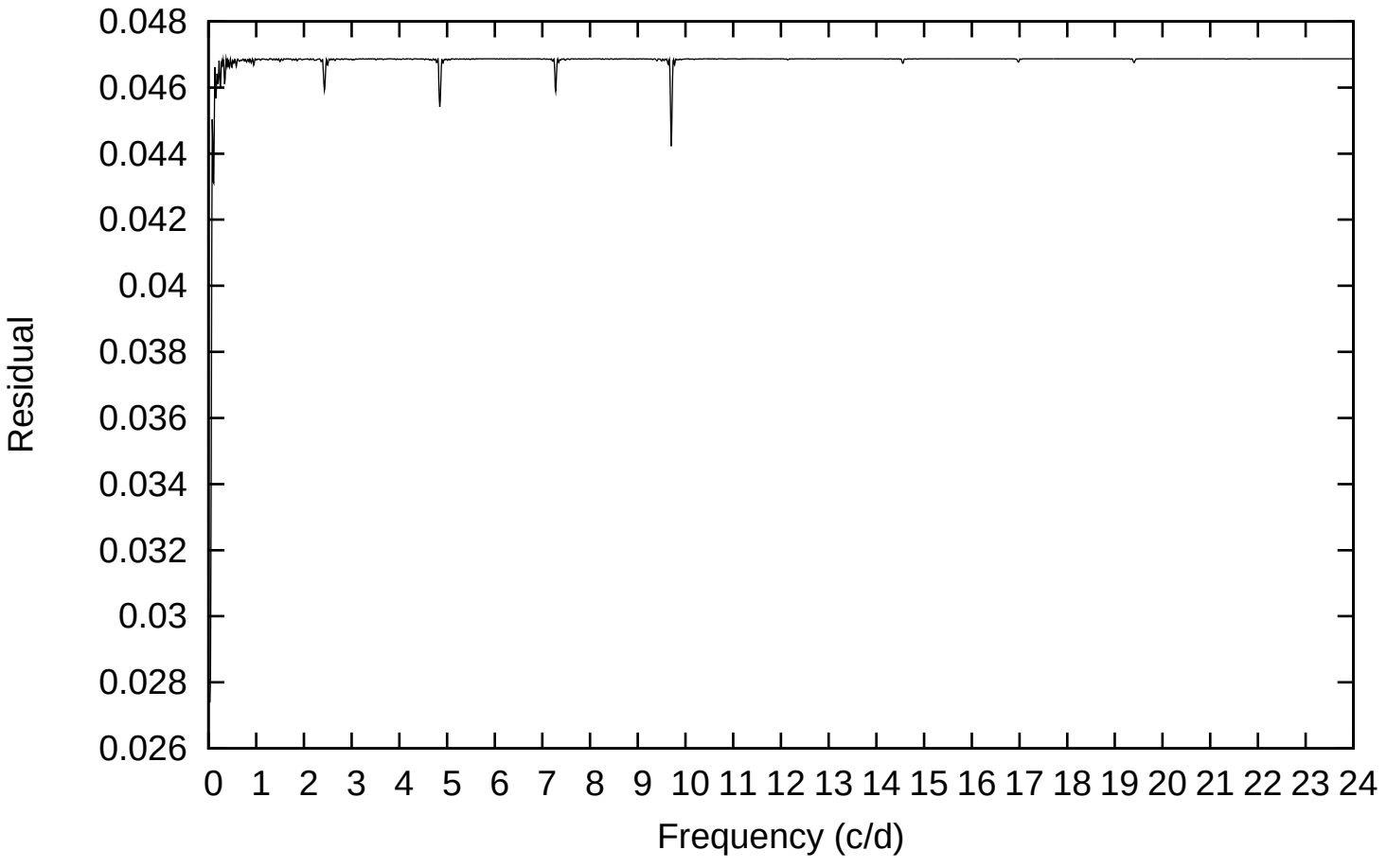

TESS Magnitude
12
12.05
12.1
12.15
12.2
12.25
12.3
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 18.1558 hours)


Residual
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 21 22 23 24
Frequency (c/d)

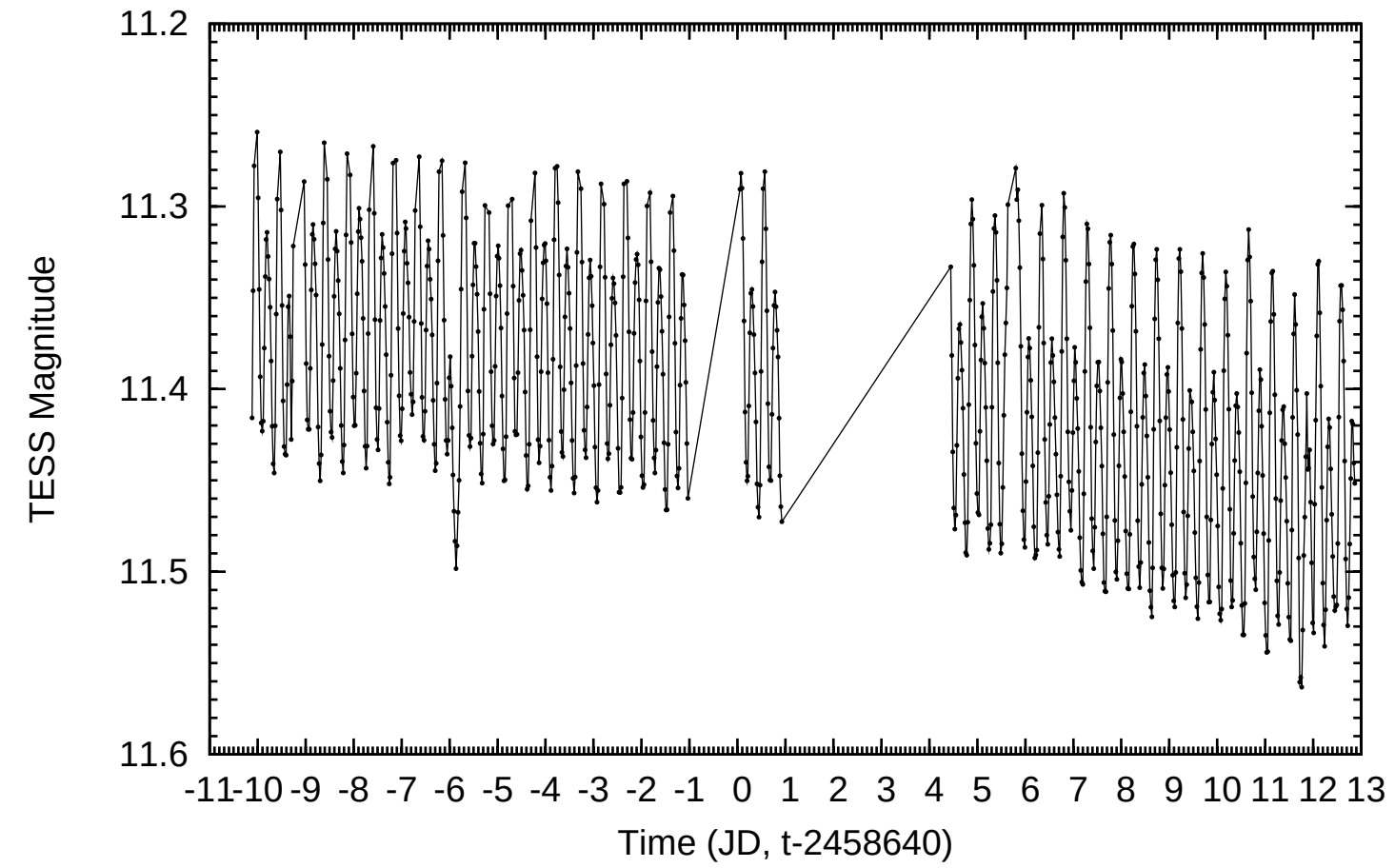
58

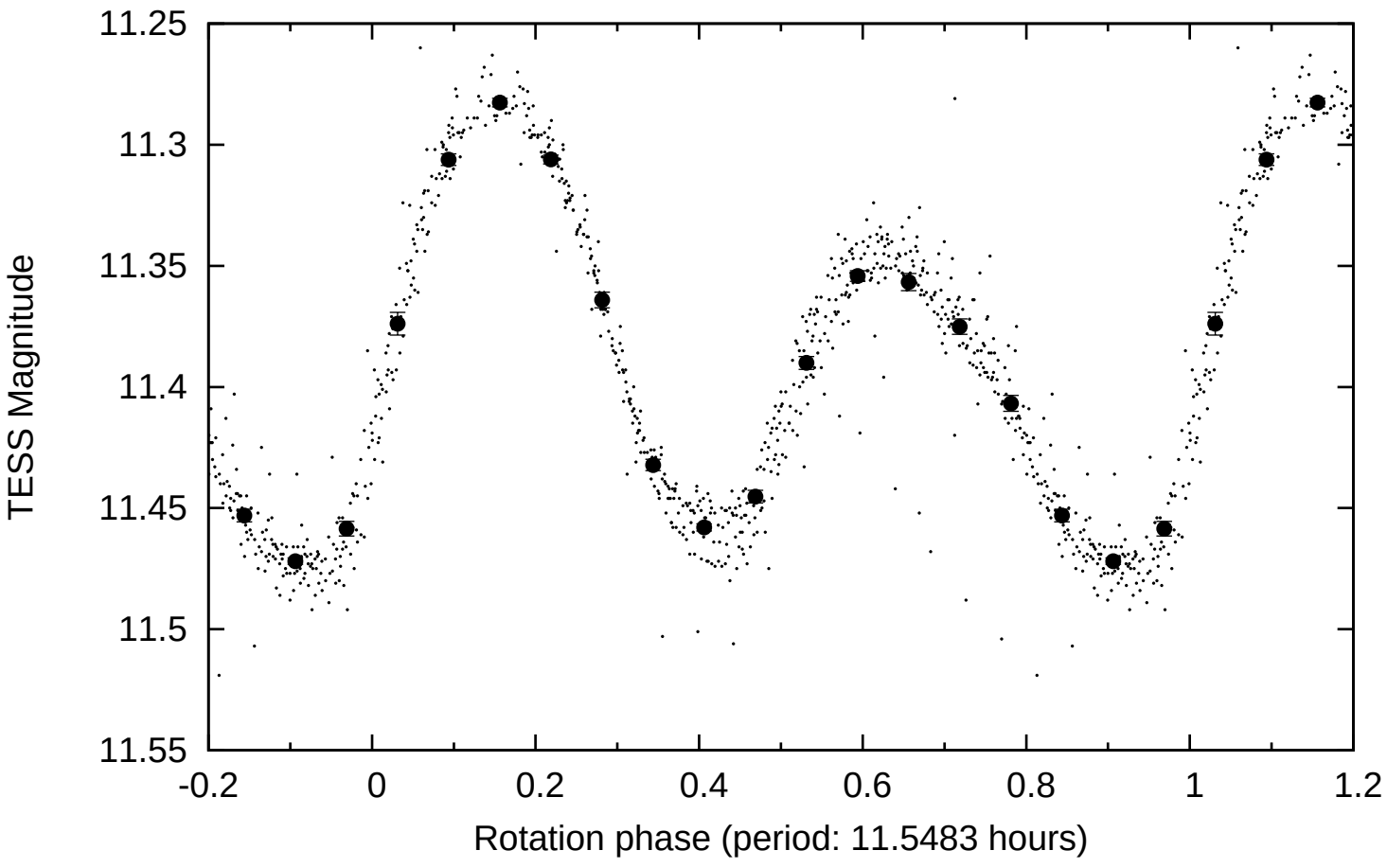

TESS Magnitude
11.8
11.9
12
12.1
12.2
12.3
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458480)

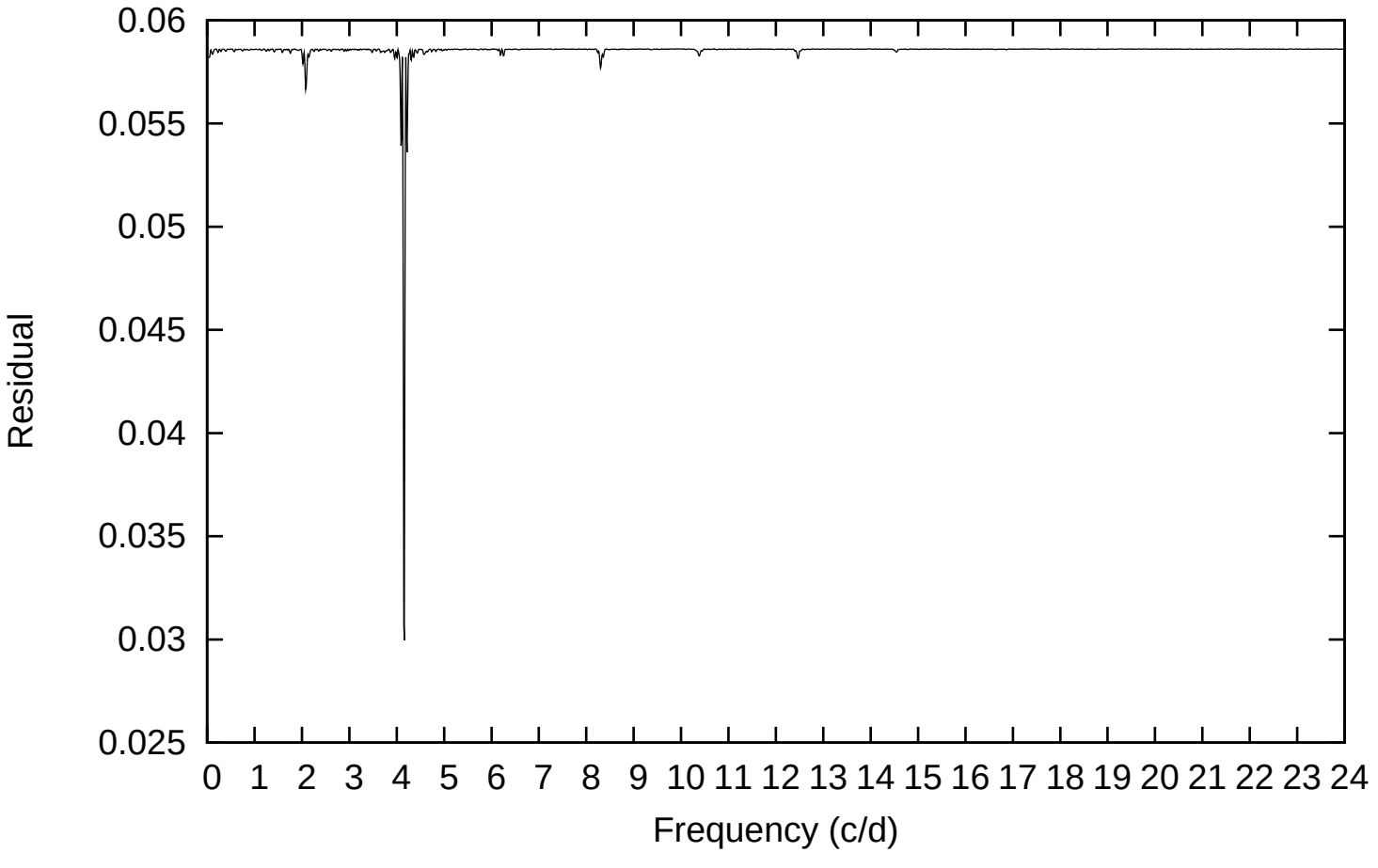

TESS Magnitude
11.8
11.85
11.9
11.95
12
12.05
12.1
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 9.89283 hours)


Residual
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

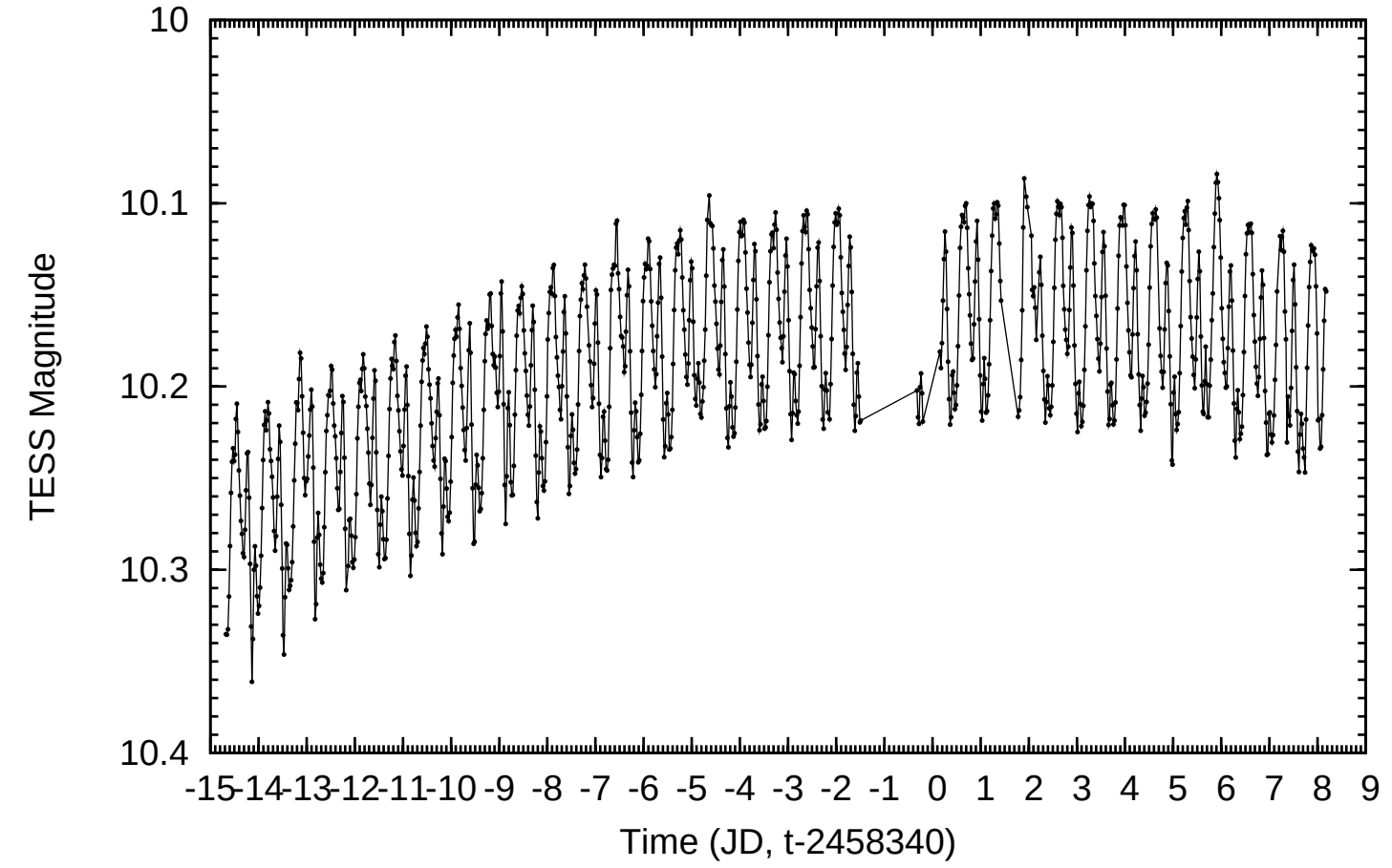
61

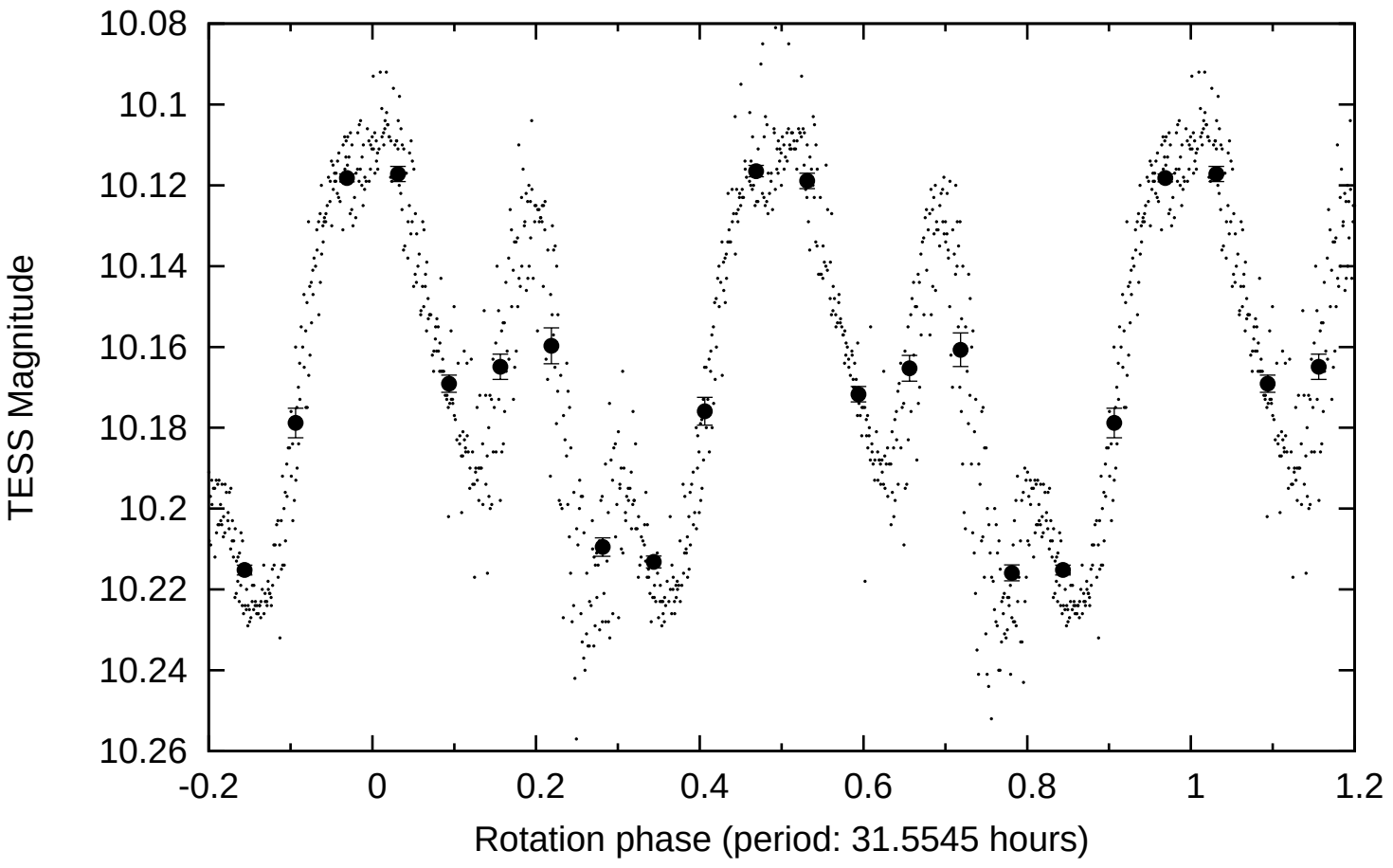

TESS Magnitude
11.2
11.3
11.4
11.5
11.6
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

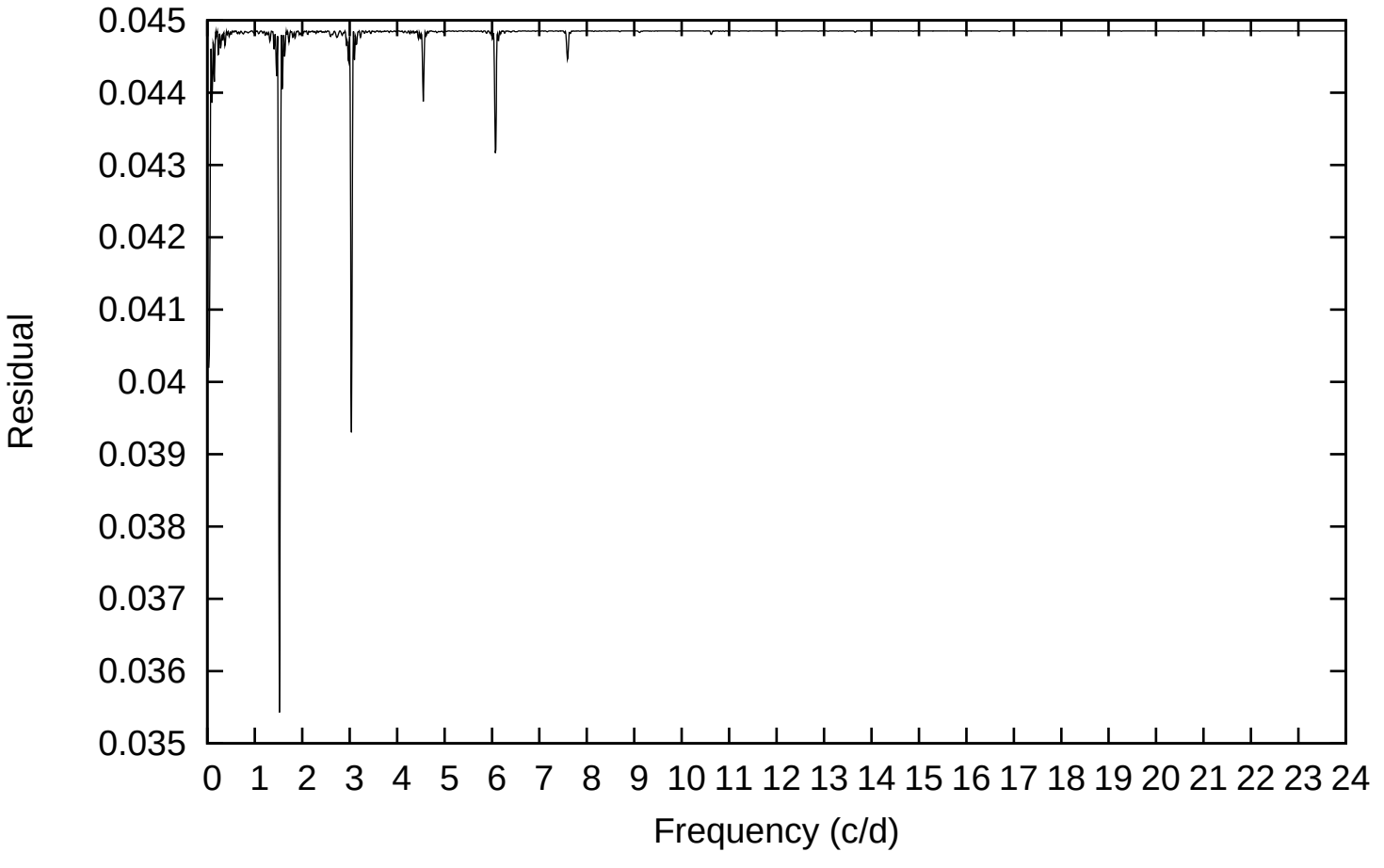

TESS Magnitude
11.25
11.3
11.35
11.4
11.45
11.5
11.55
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 11.5483 hours)


Residual
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

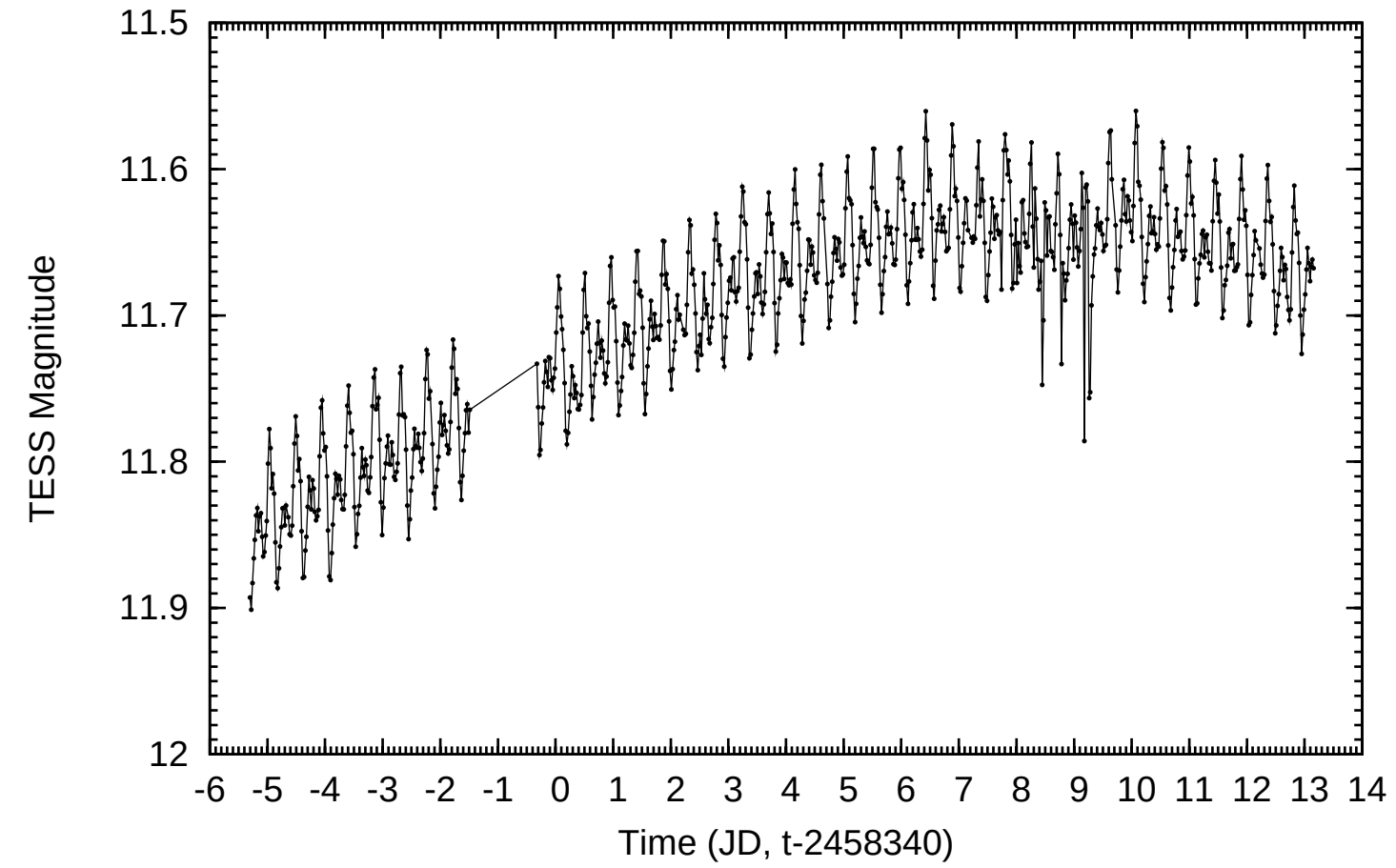
70

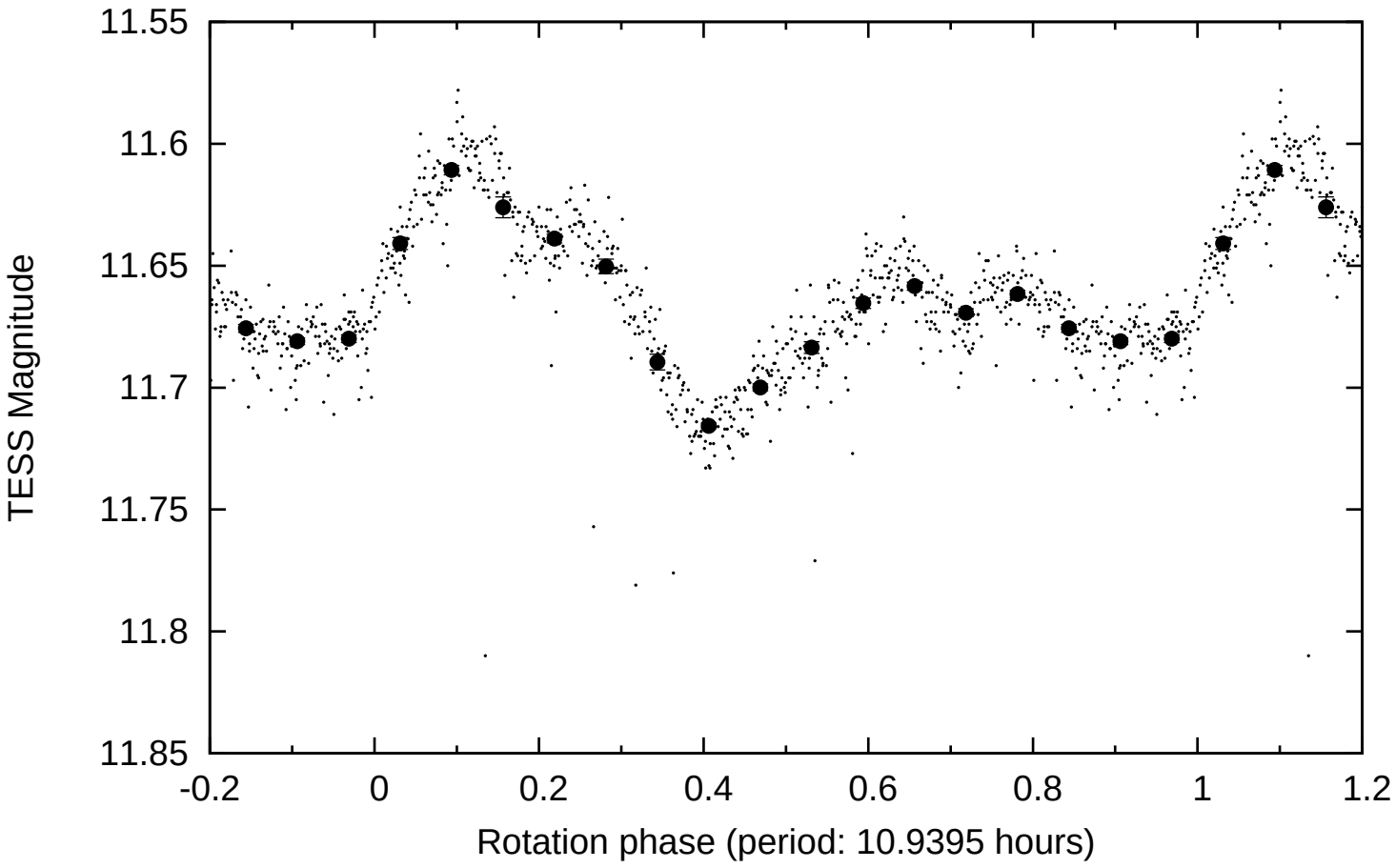

TESS Magnitude
10
10.1
10.2
10.3
10.4
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
Time (JD, t-2458340)

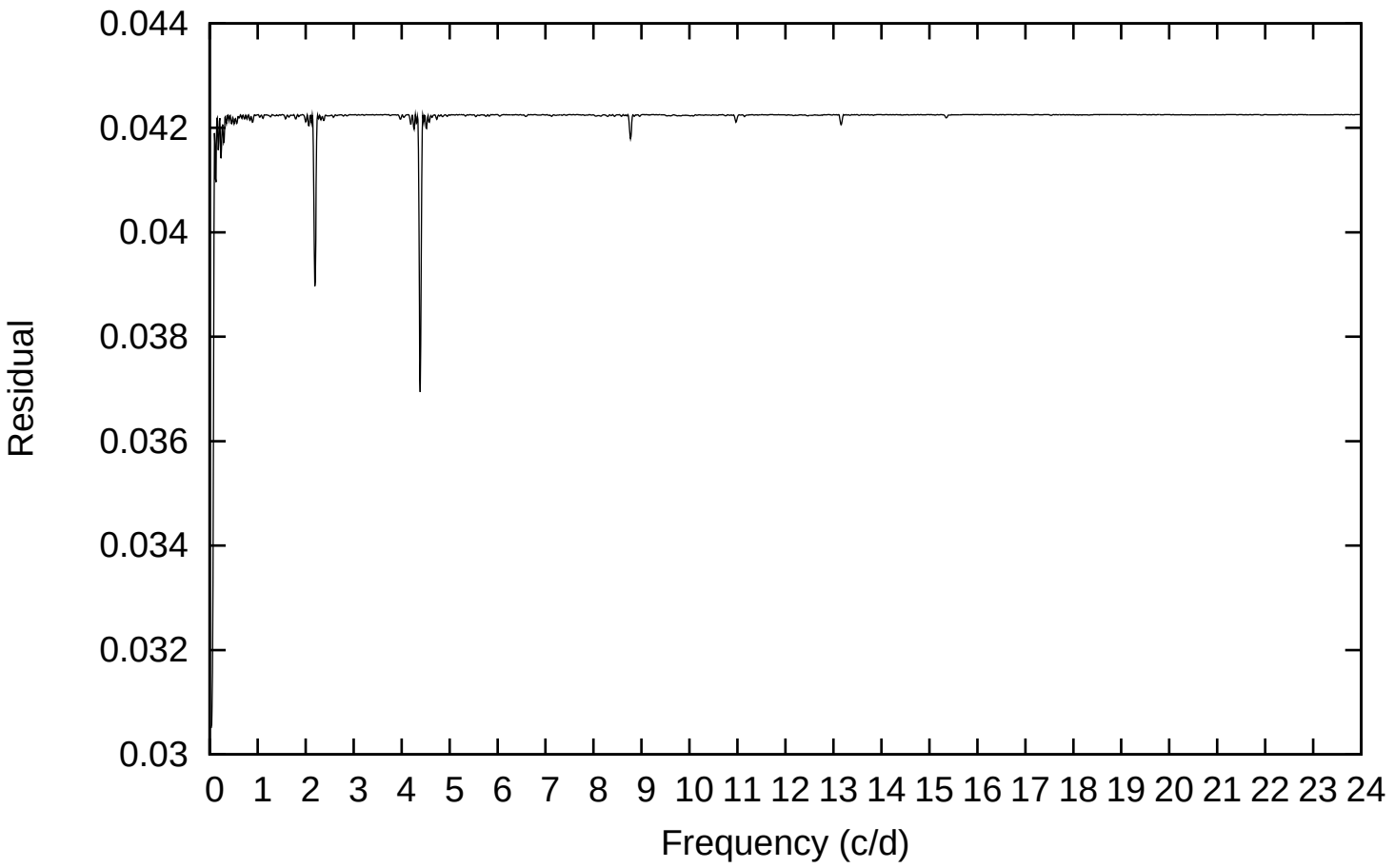

TESS Magnitude
10.08
10.1
10.12
10.14
10.16
10.18
10.2
10.22
10.24
10.26
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 31.5545 hours)


Residual
0.045
0.044
0.043
0.042
0.041
0.04
0.039
0.038
0.037
0.036
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

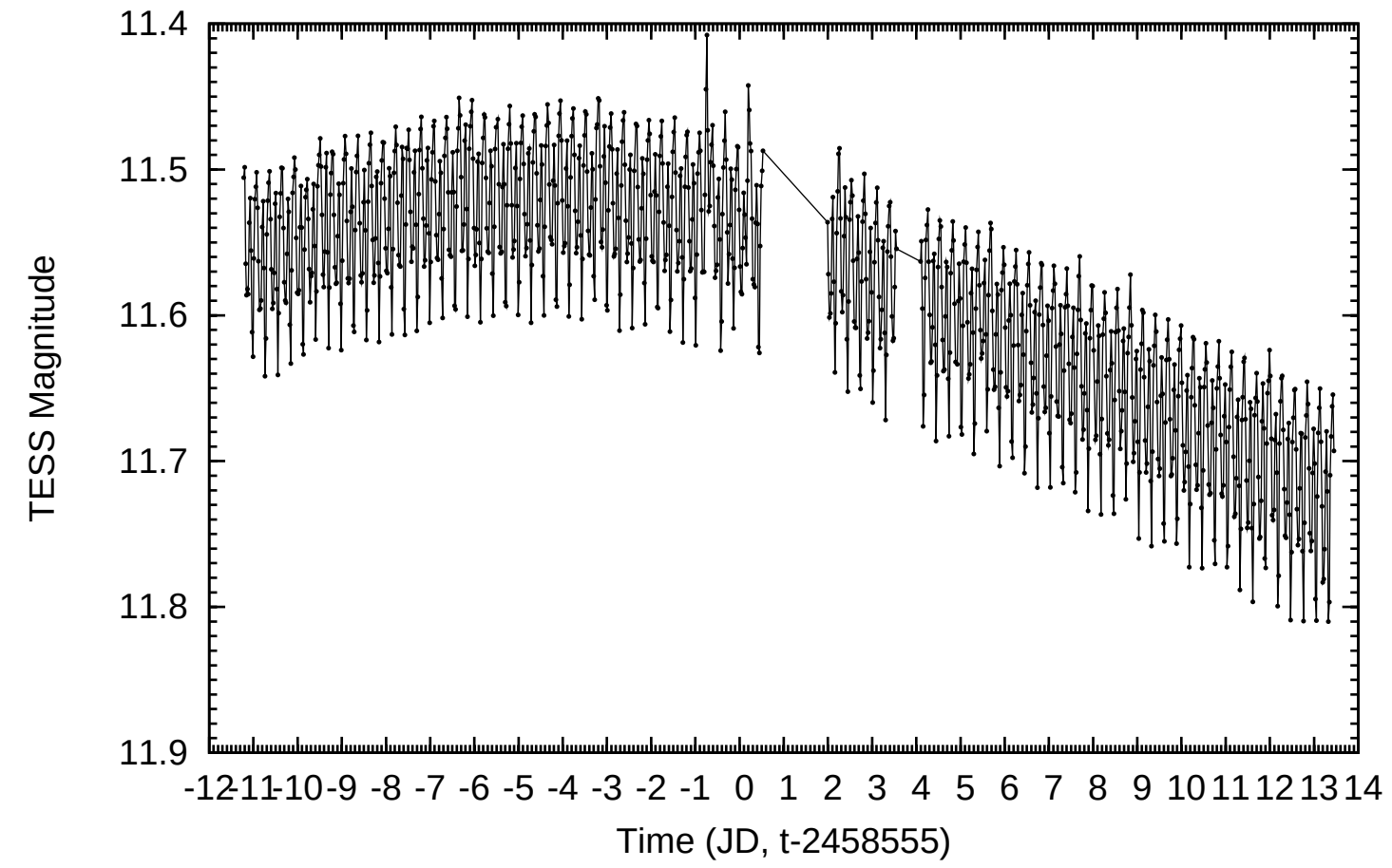
81

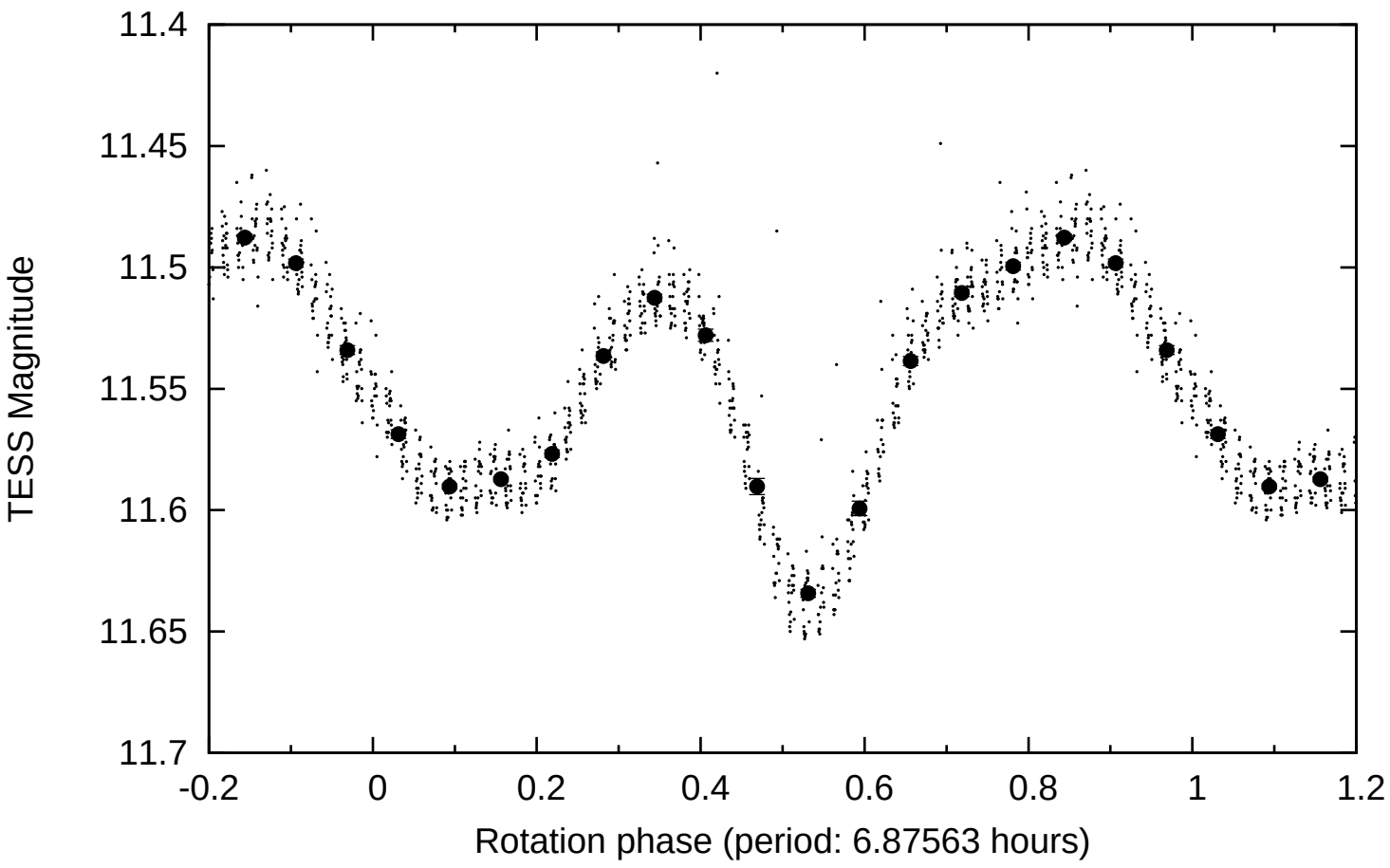

11.5
11.6
11.7
11.8
11.9
12
TESS Magnitude
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458340)

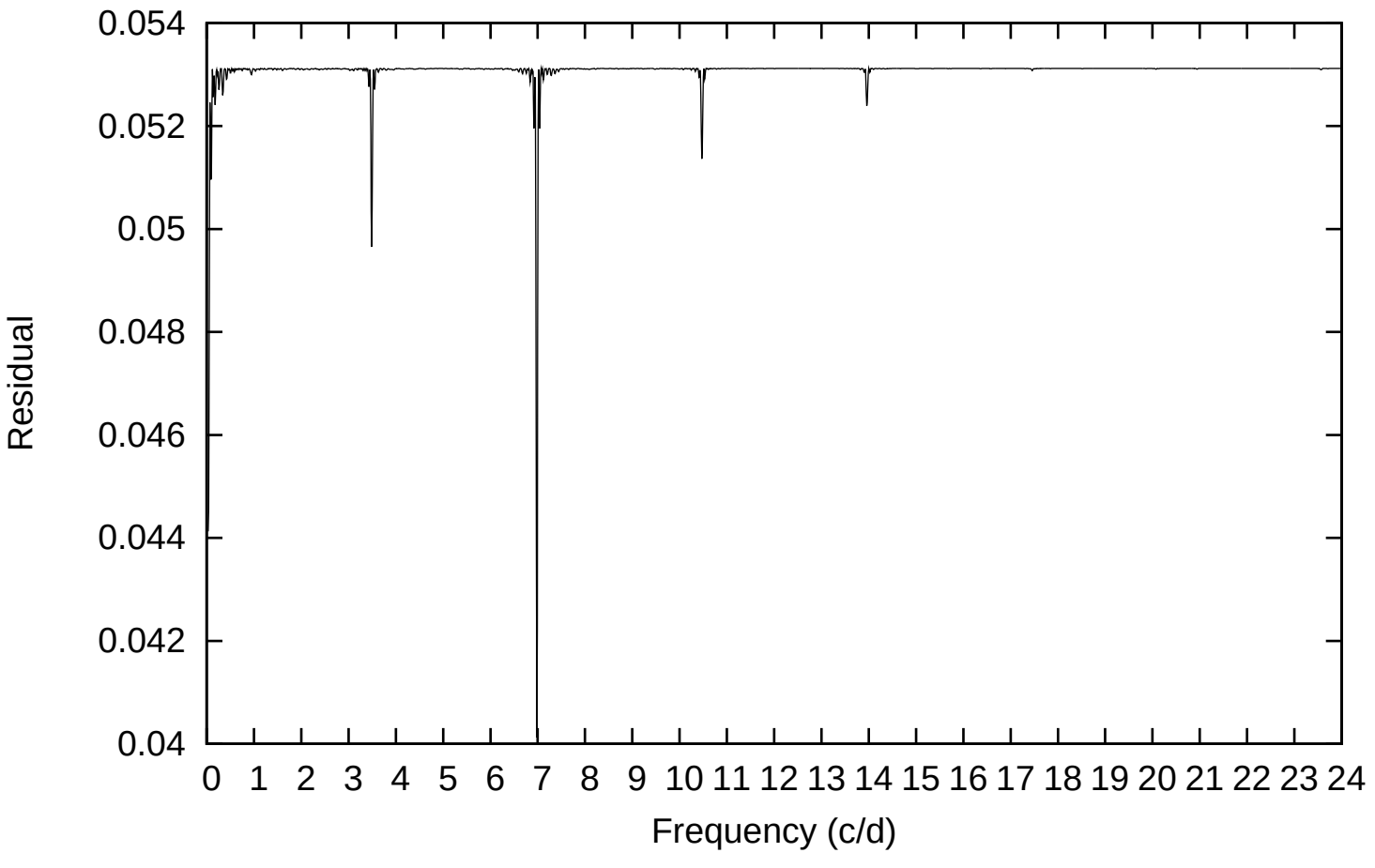

11.55
11.6
11.65
11.7
11.75
11.8
11.85
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 10.9395 hours)


0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

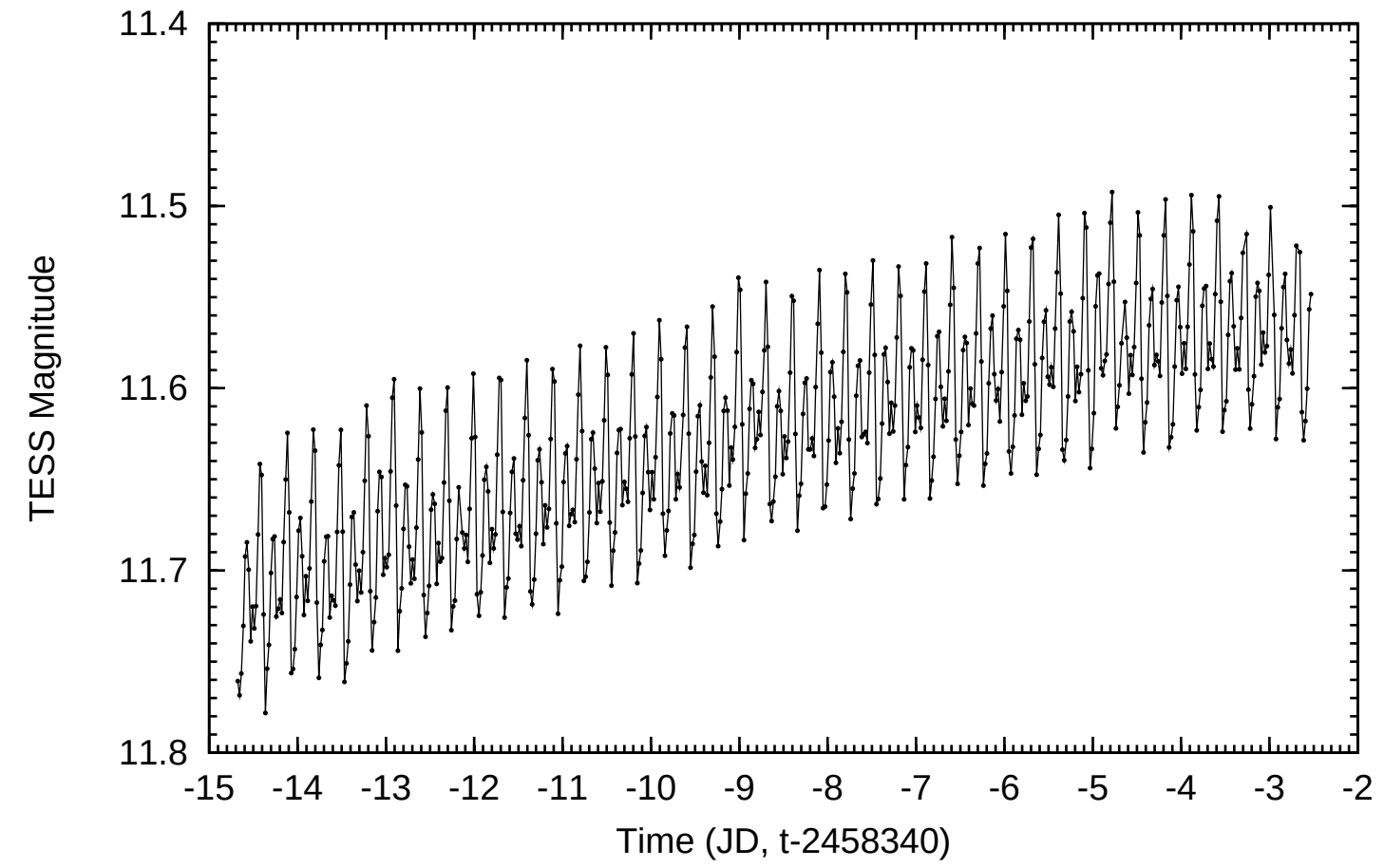
85

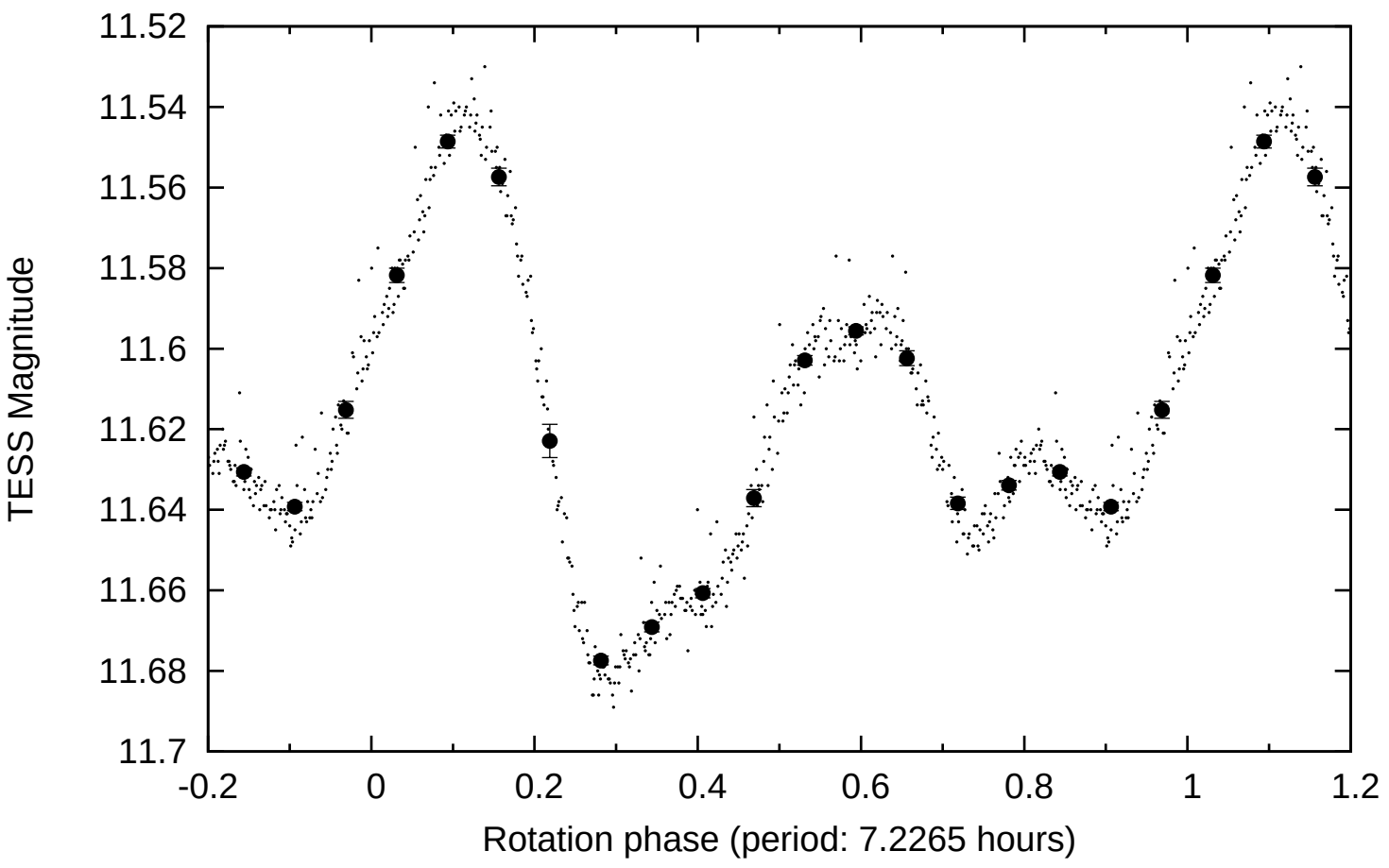

TESS Magnitude
11.4
11.5
11.6
11.7
11.8
11.9
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

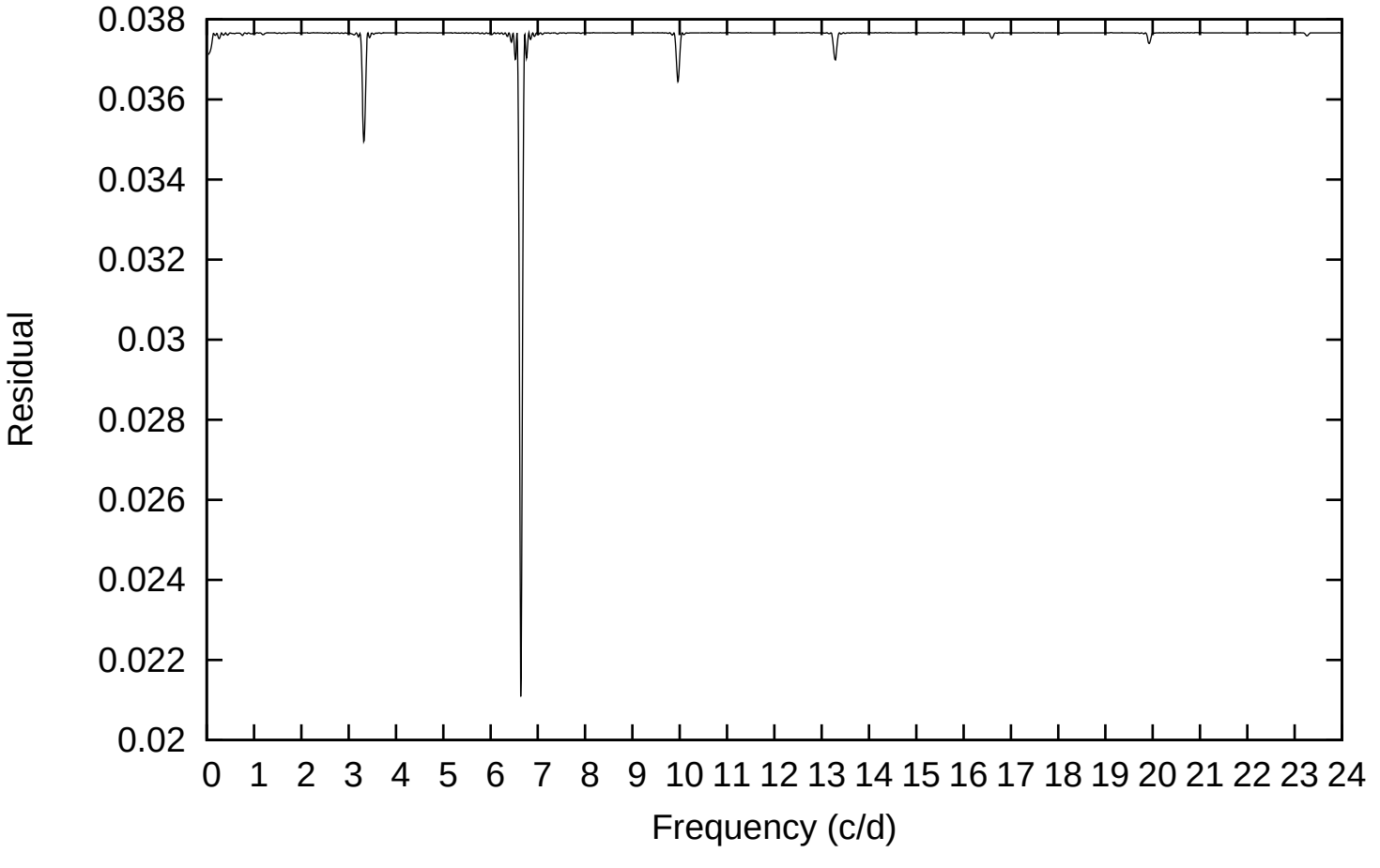

TESS Magnitude
11.4
11.45
11.5
11.55
11.6
11.65
11.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 6.87563 hours)


Residual
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

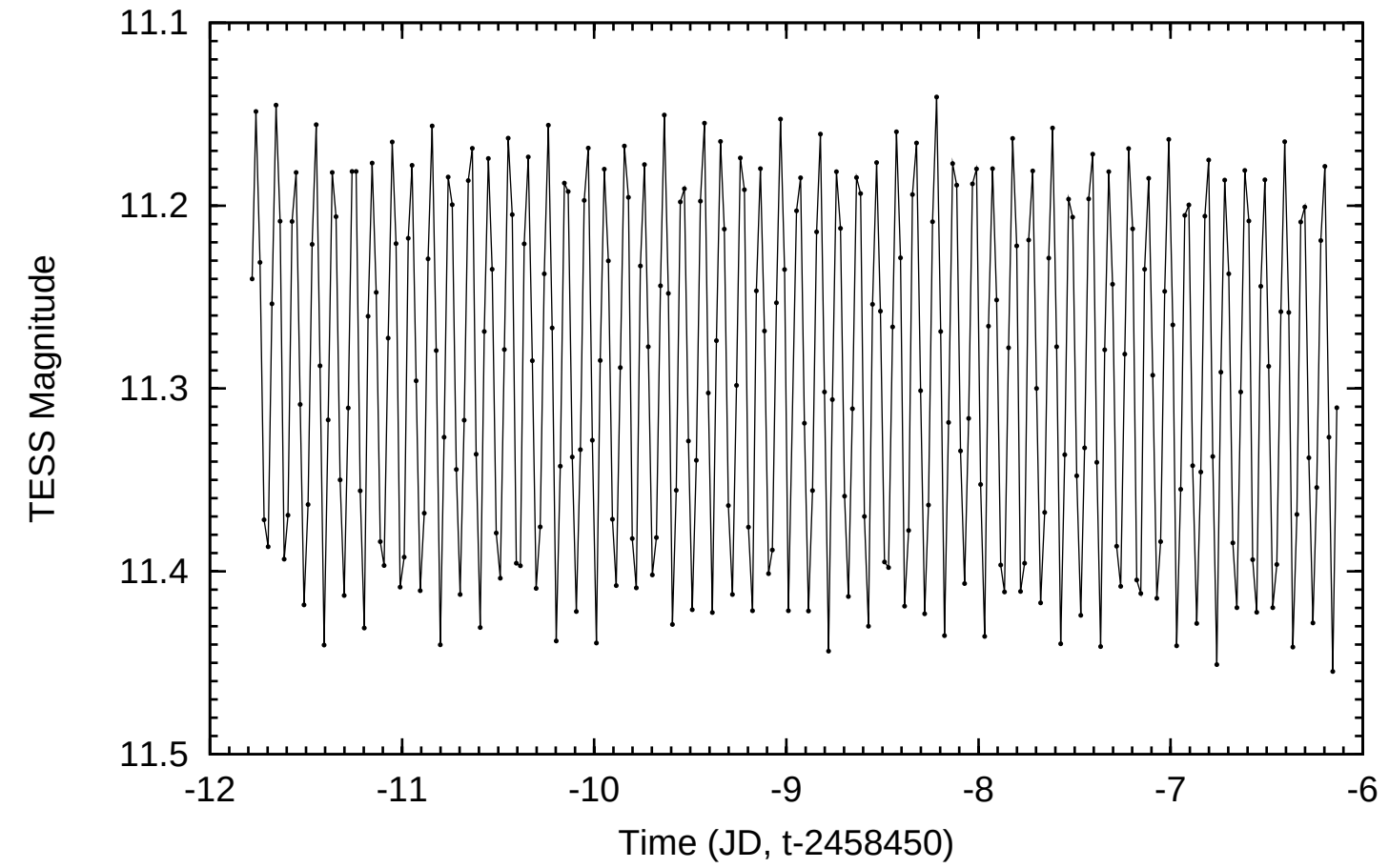
94

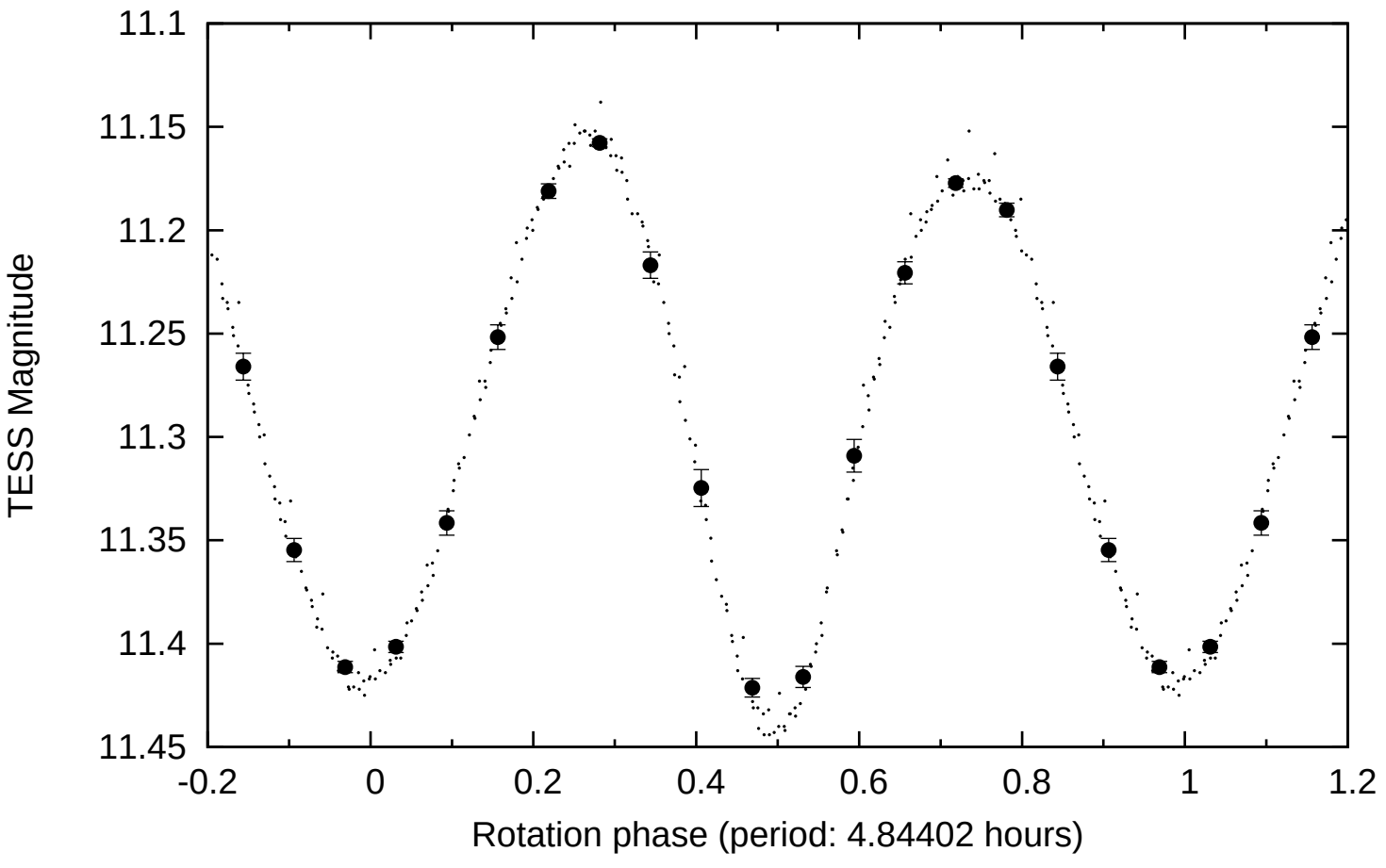

TESS Magnitude
11.4
11.5
11.6
11.7
11.8
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2
Time (JD, t-2458340)

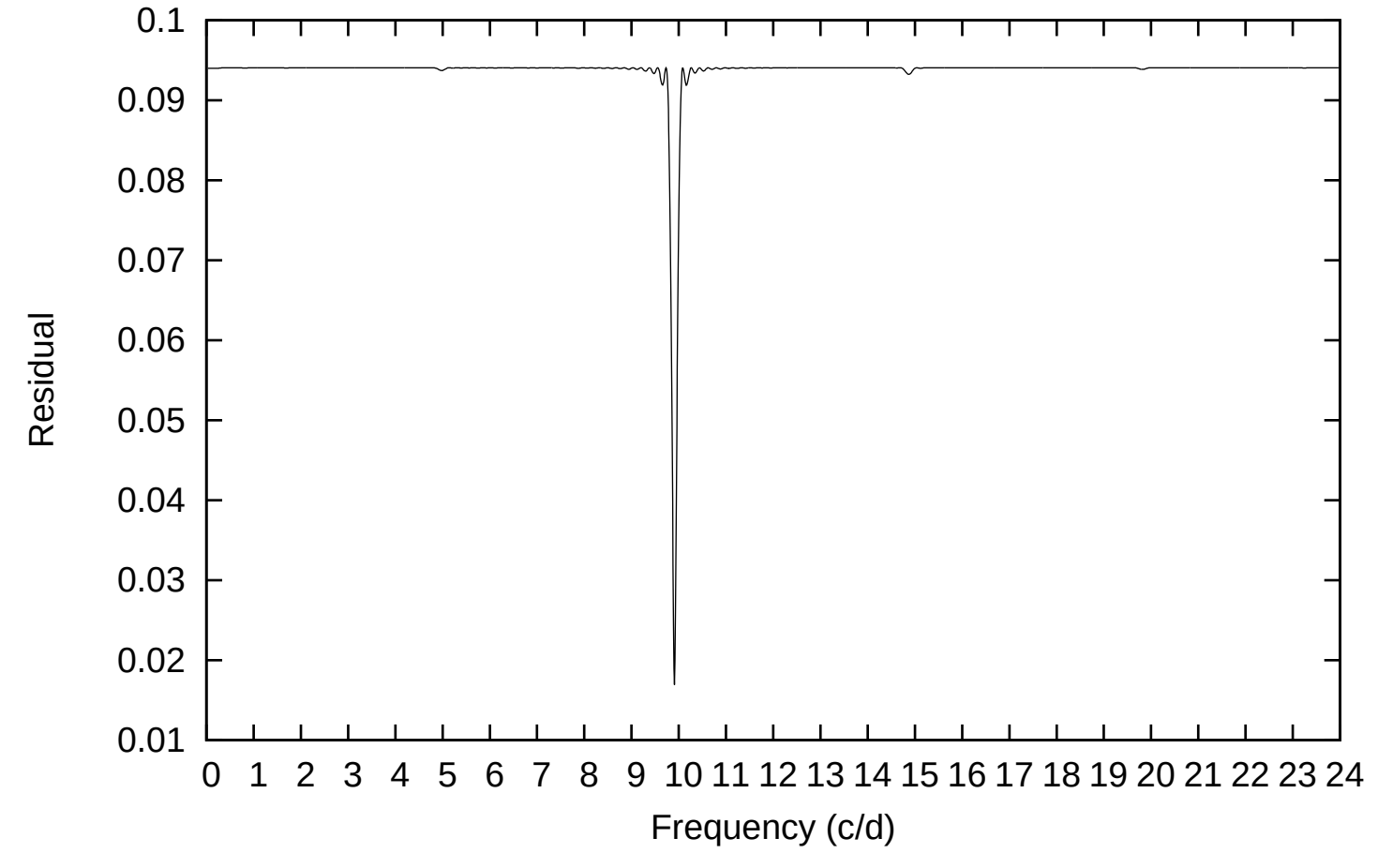

TESS Magnitude
11.52
11.54
11.56
11.58
11.6
11.62
11.64
11.66
11.68
11.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.2265 hours)


Residual
0.038
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 21 22 23 24
Frequency (c/d)

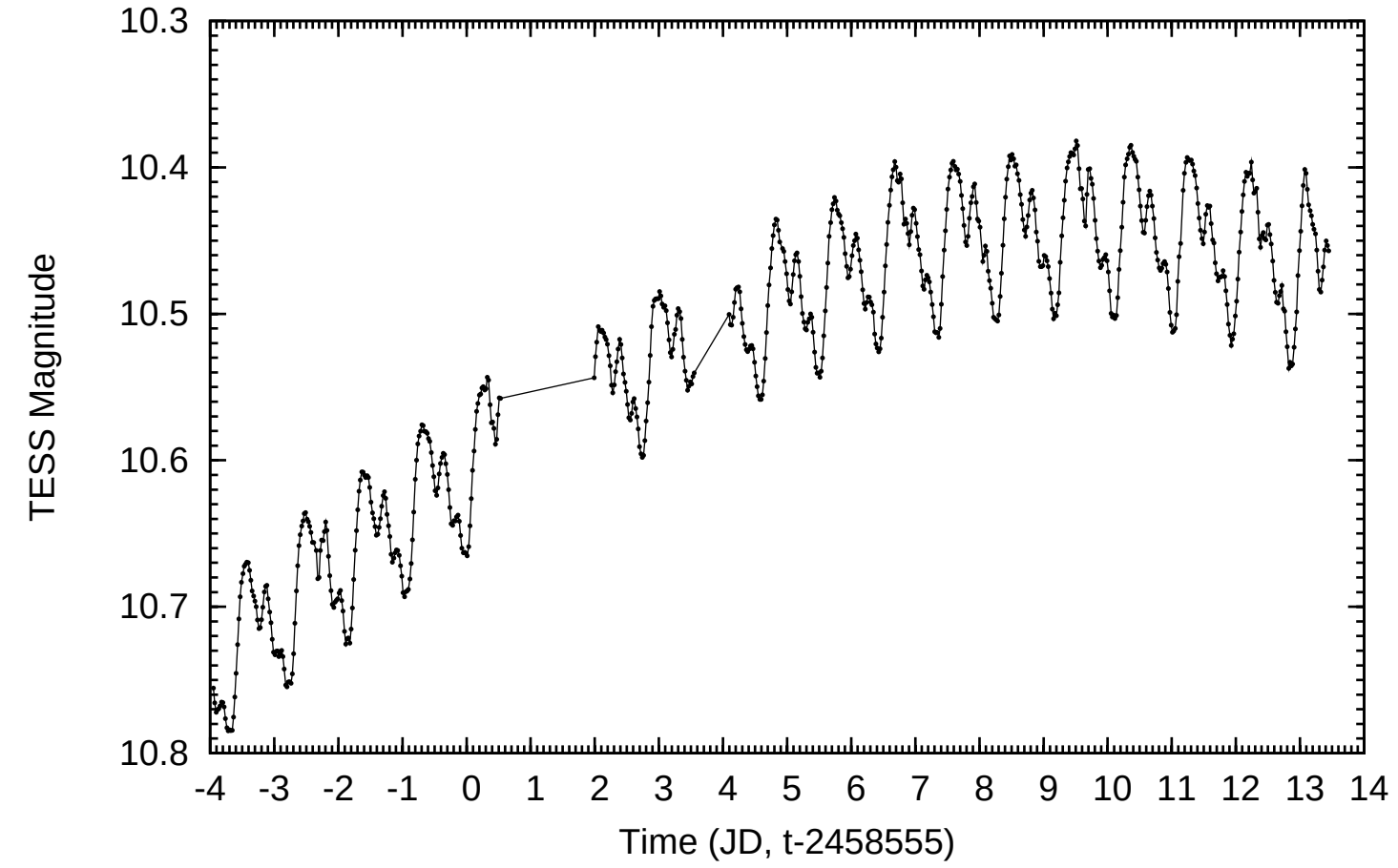
107

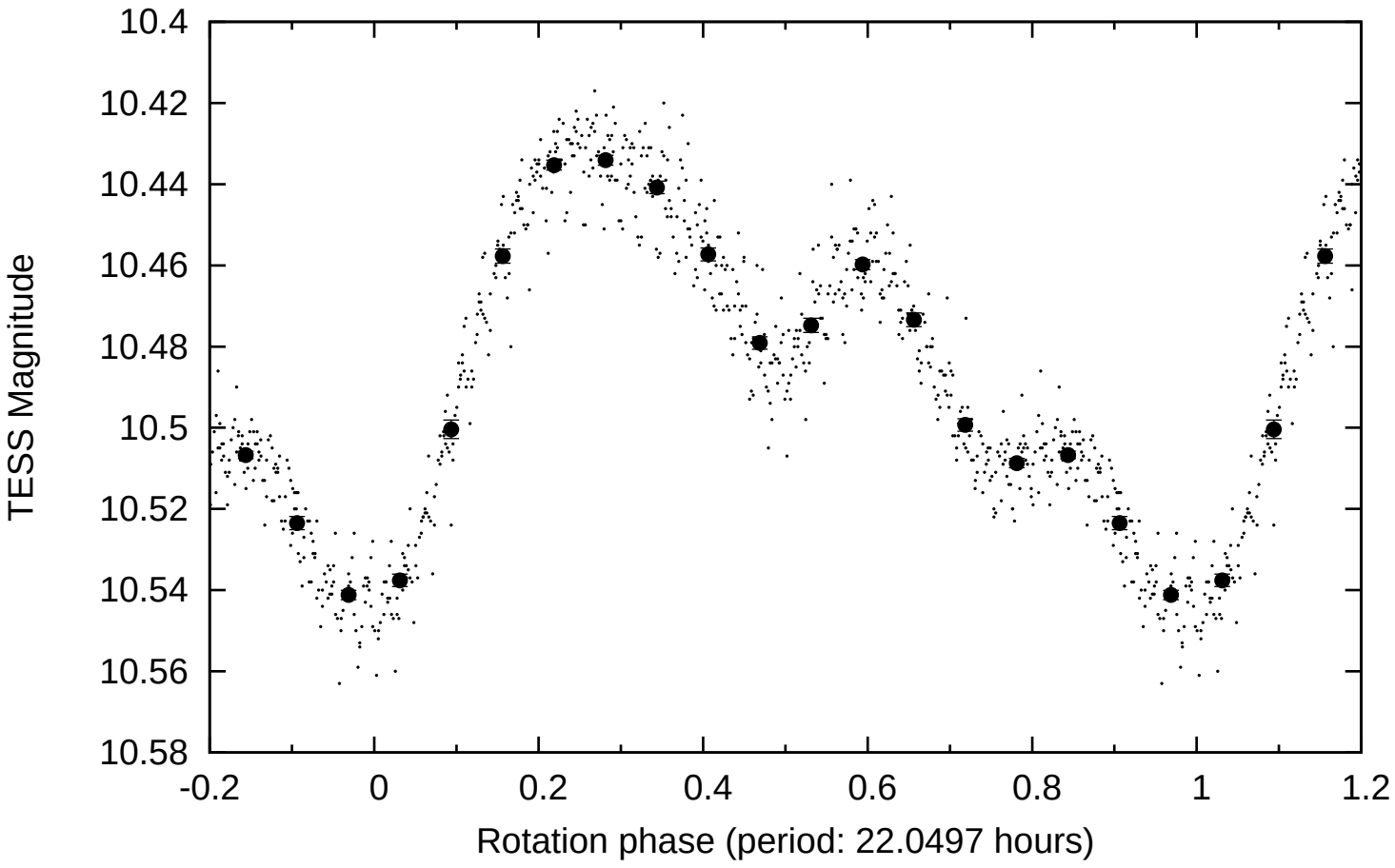

11.1
11.2
11.3
11.4
11.5
TESS Magnitude
-12
-11
-10
-9
-8
-7
-6
Time (JD, t-2458450)

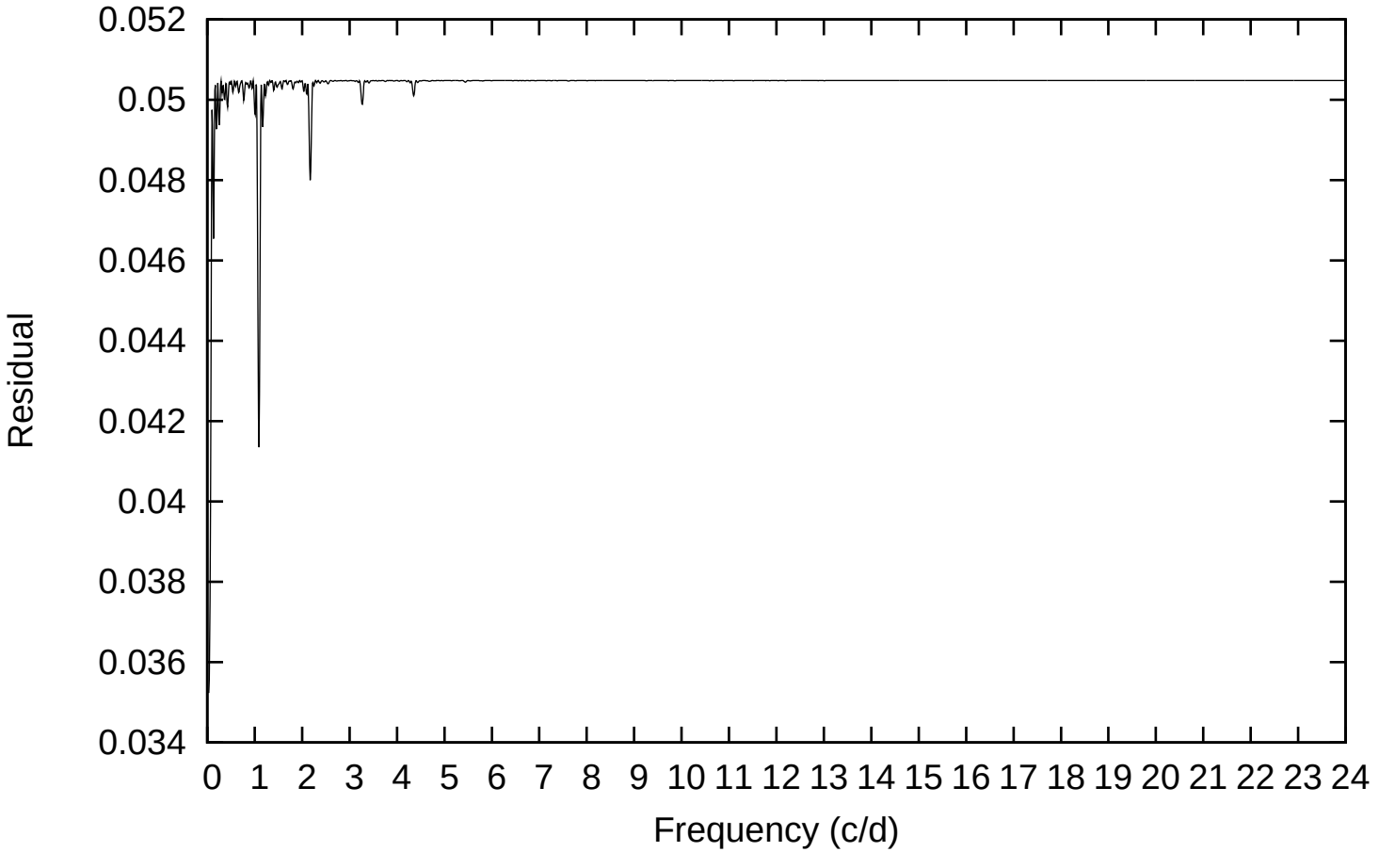

11.1
11.15
11.2
11.25
11.3
11.35
11.4
11.45
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 4.84402 hours)


0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

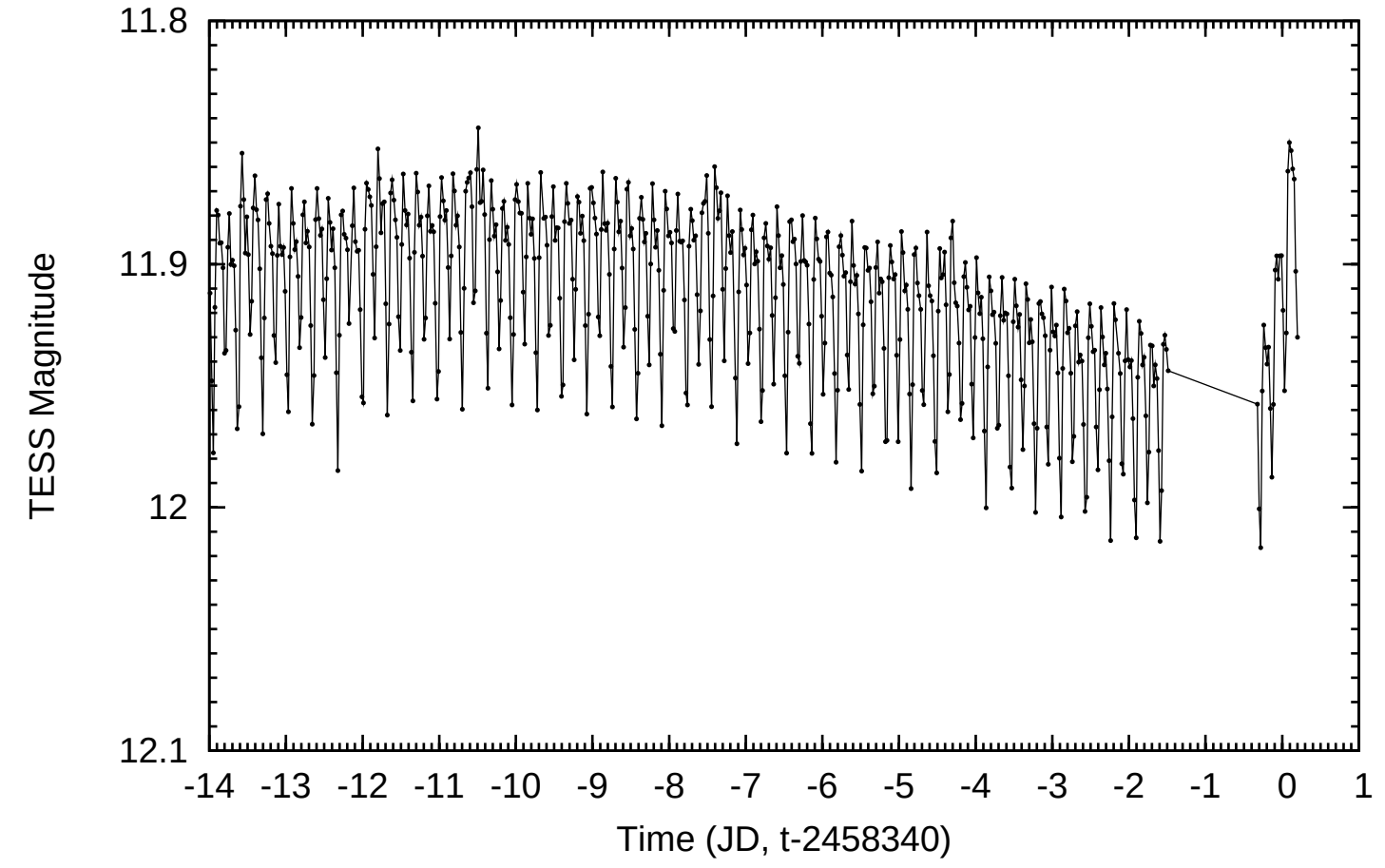
111

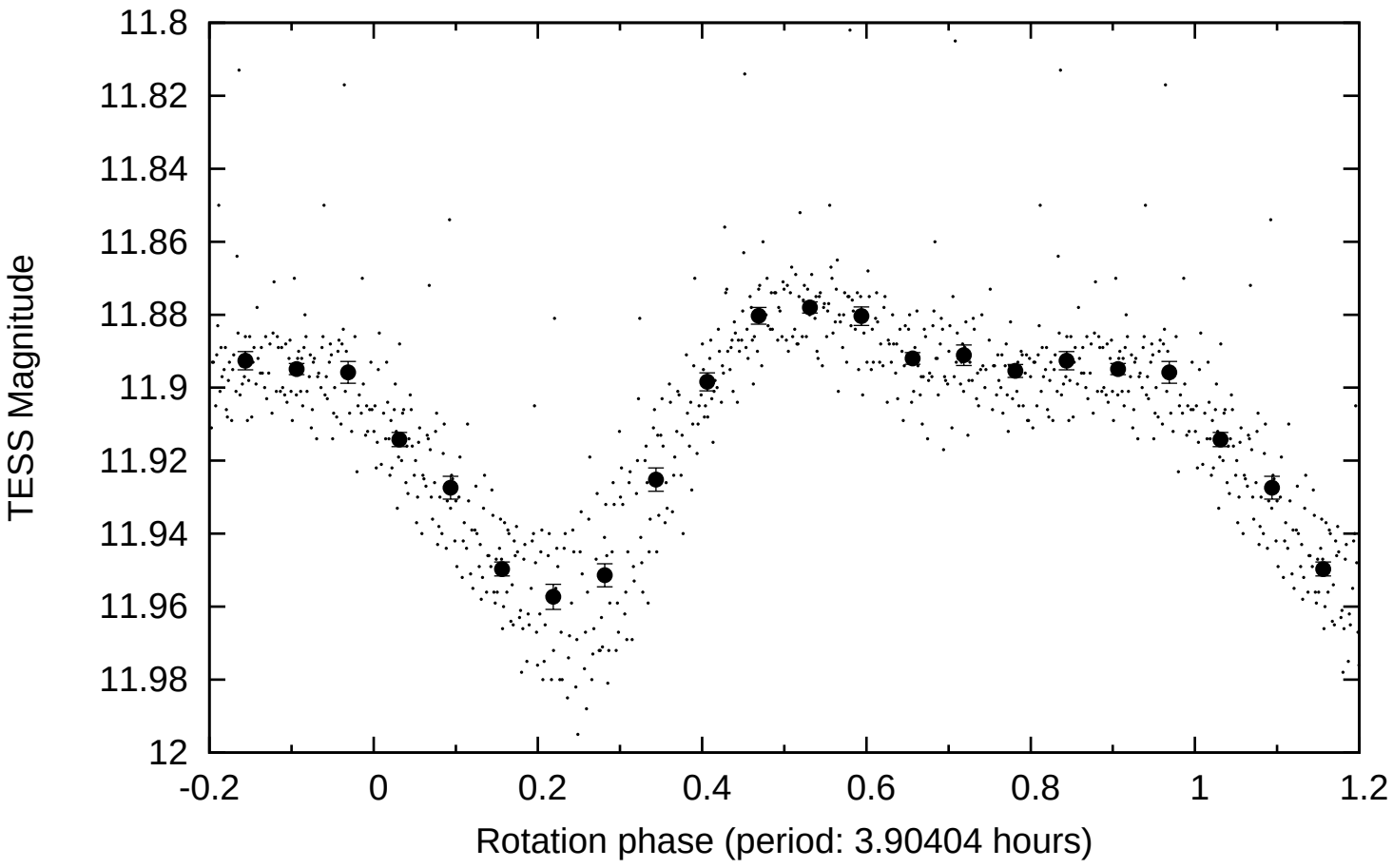

TESS Magnitude
10.3
10.4
10.5
10.6
10.7
10.8
-4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

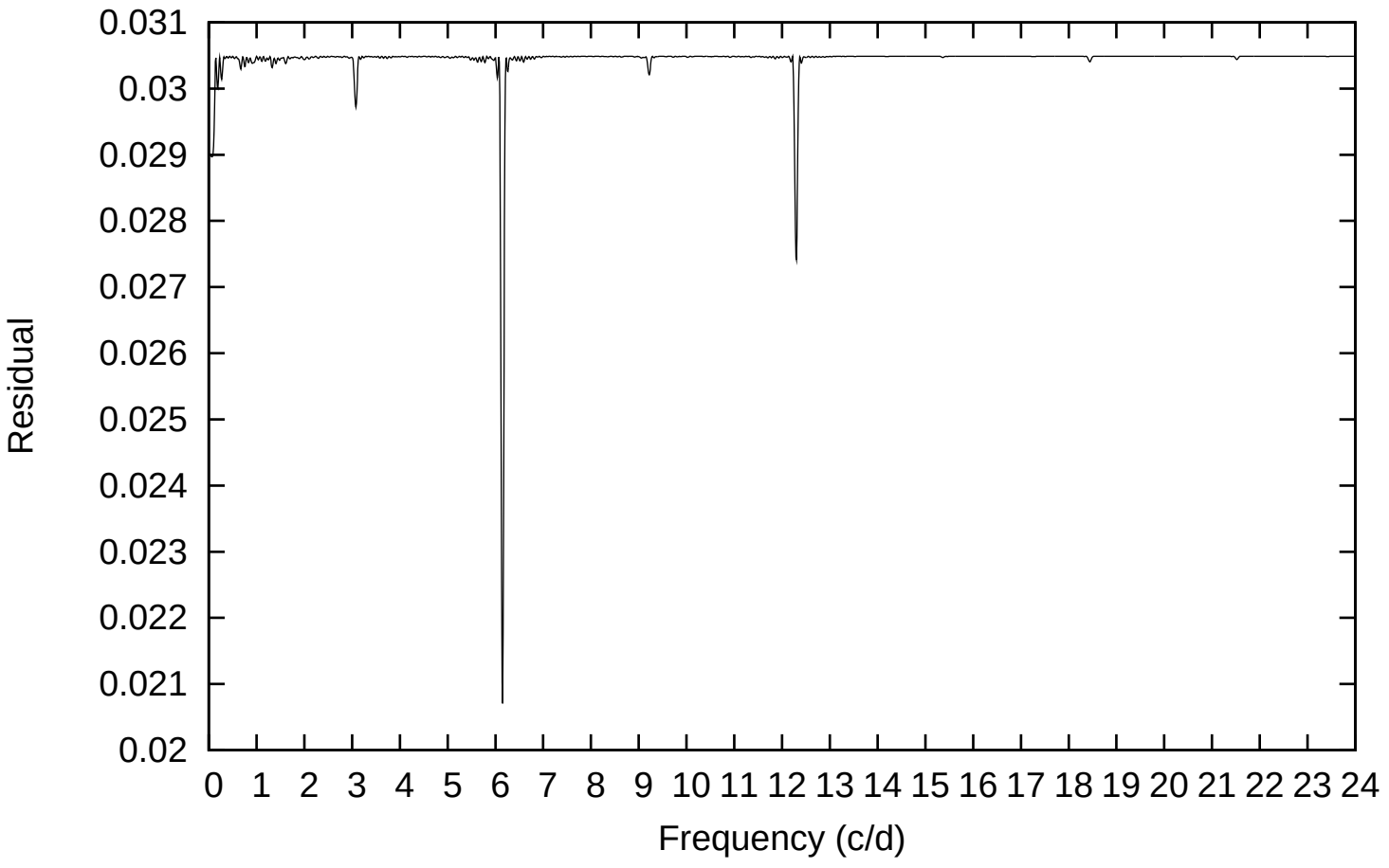

TESS Magnitude
10.4
10.42
10.44
10.46
10.48
10.5
10.52
10.54
10.56
10.58
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 22.0497 hours)


Residual
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

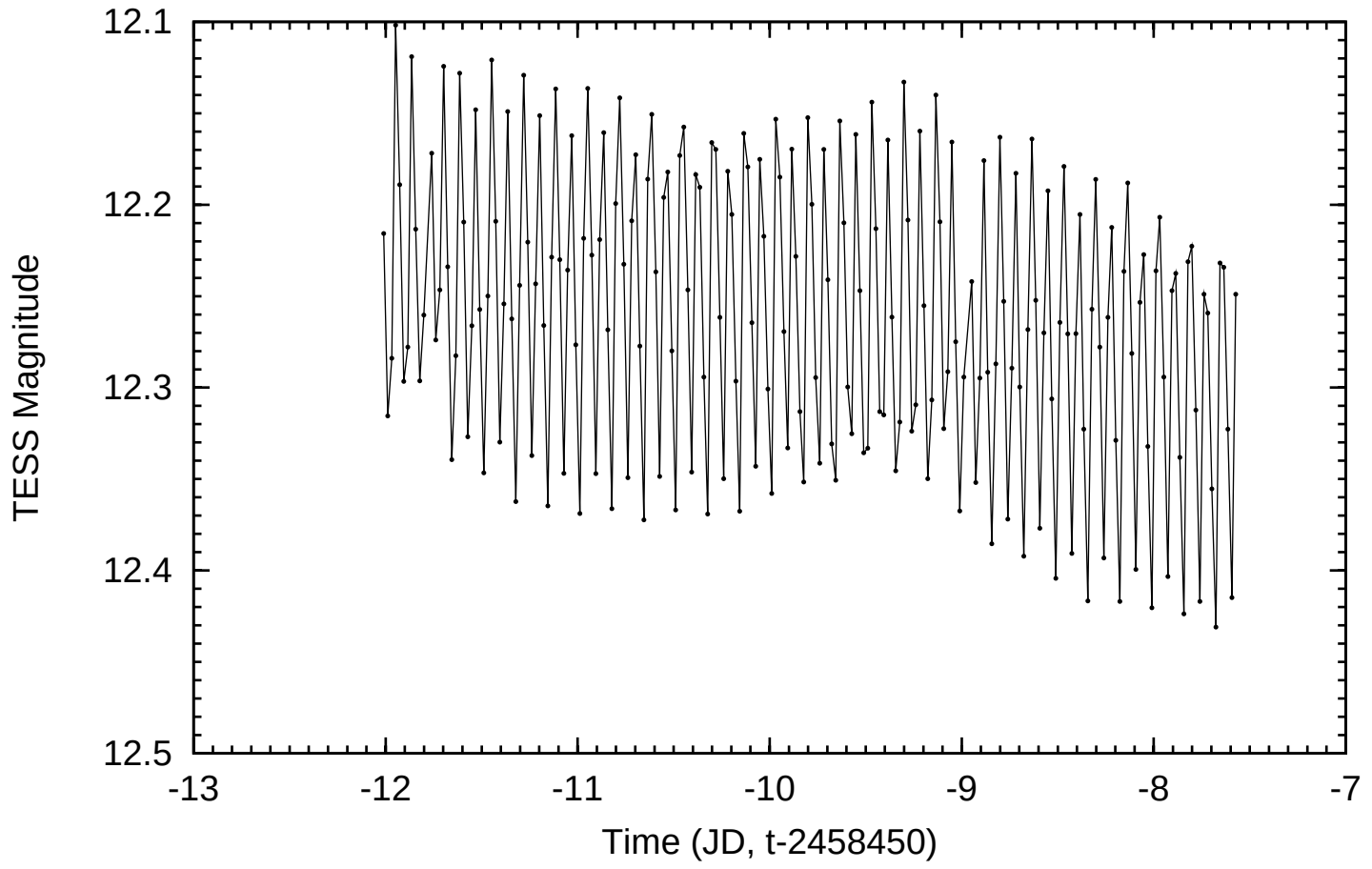
118

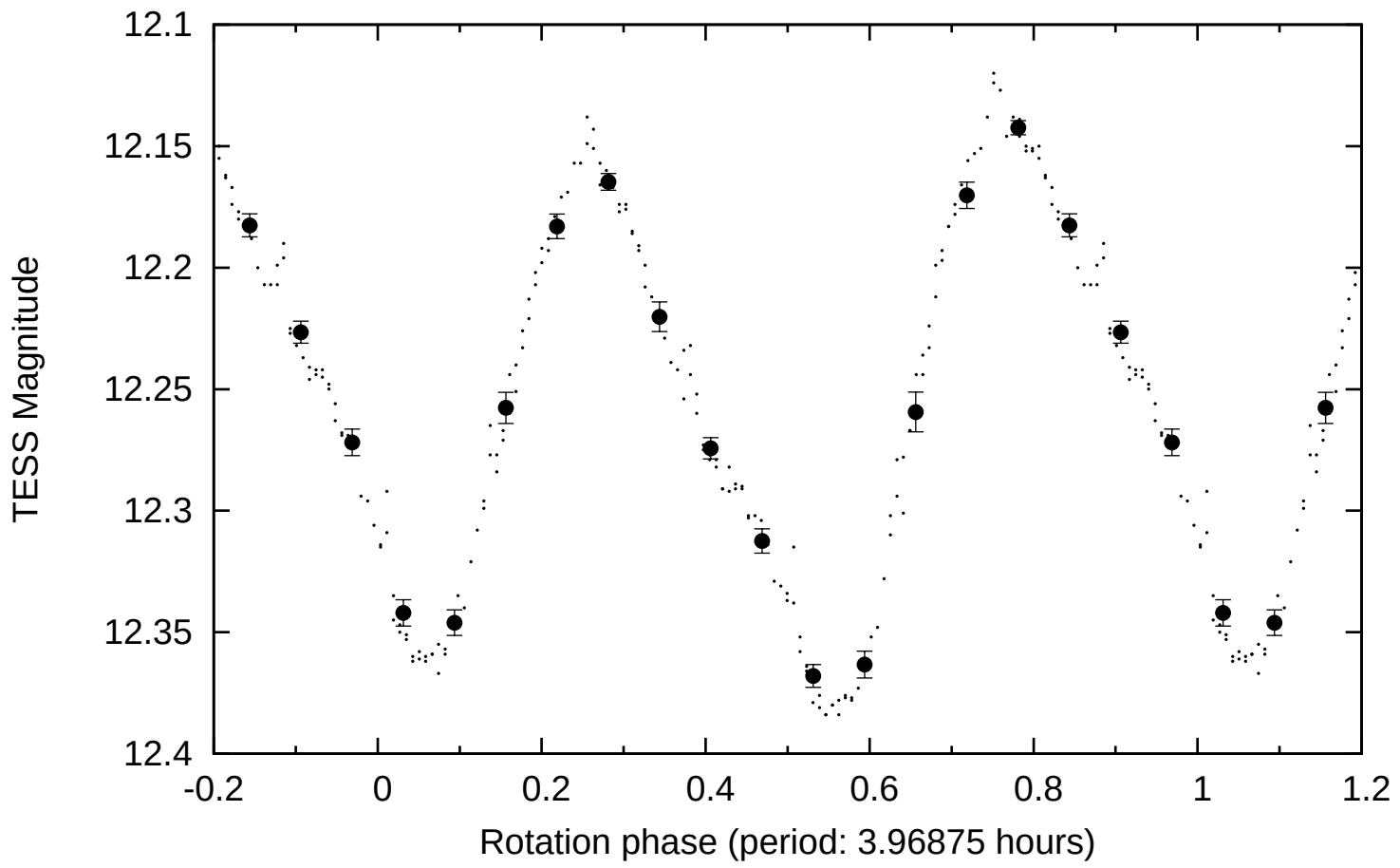

TESS Magnitude
11.8
11.9
12
12.1
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1
Time (JD, t-2458340)

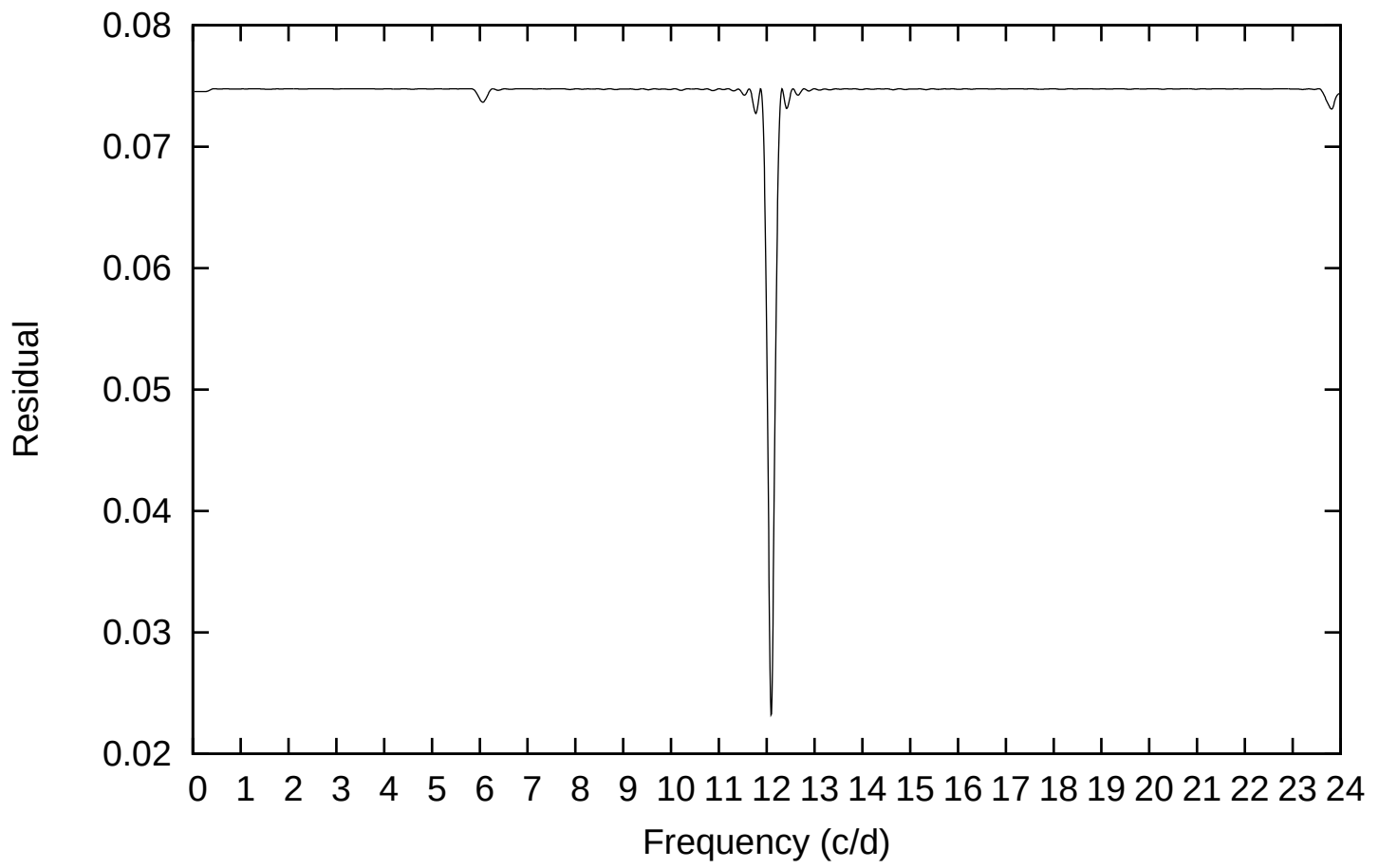

TESS Magnitude
11.8
11.82
11.84
11.86
11.88
11.9
11.92
11.94
11.96
11.98
12
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 3.90404 hours)


Residual
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

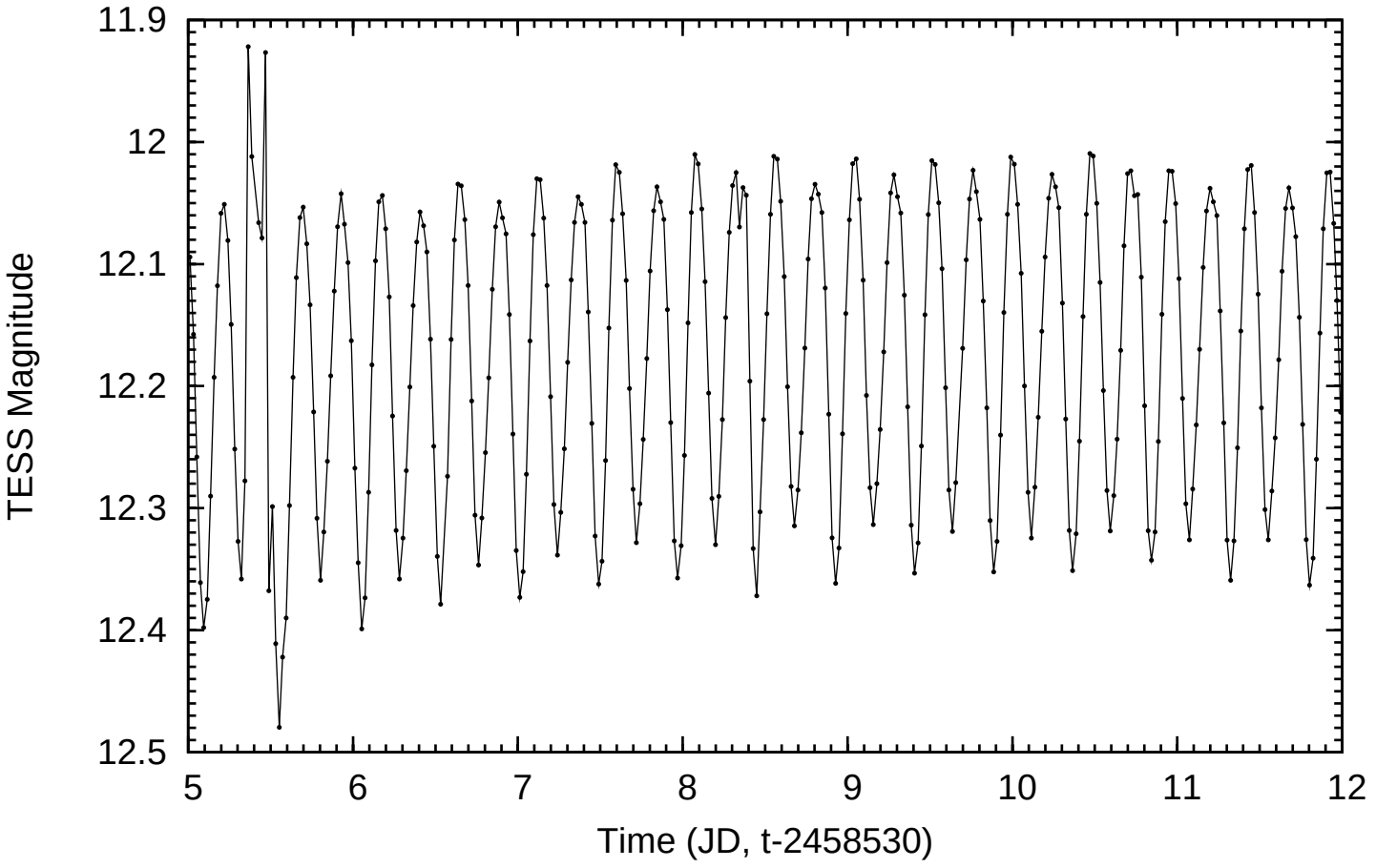
125

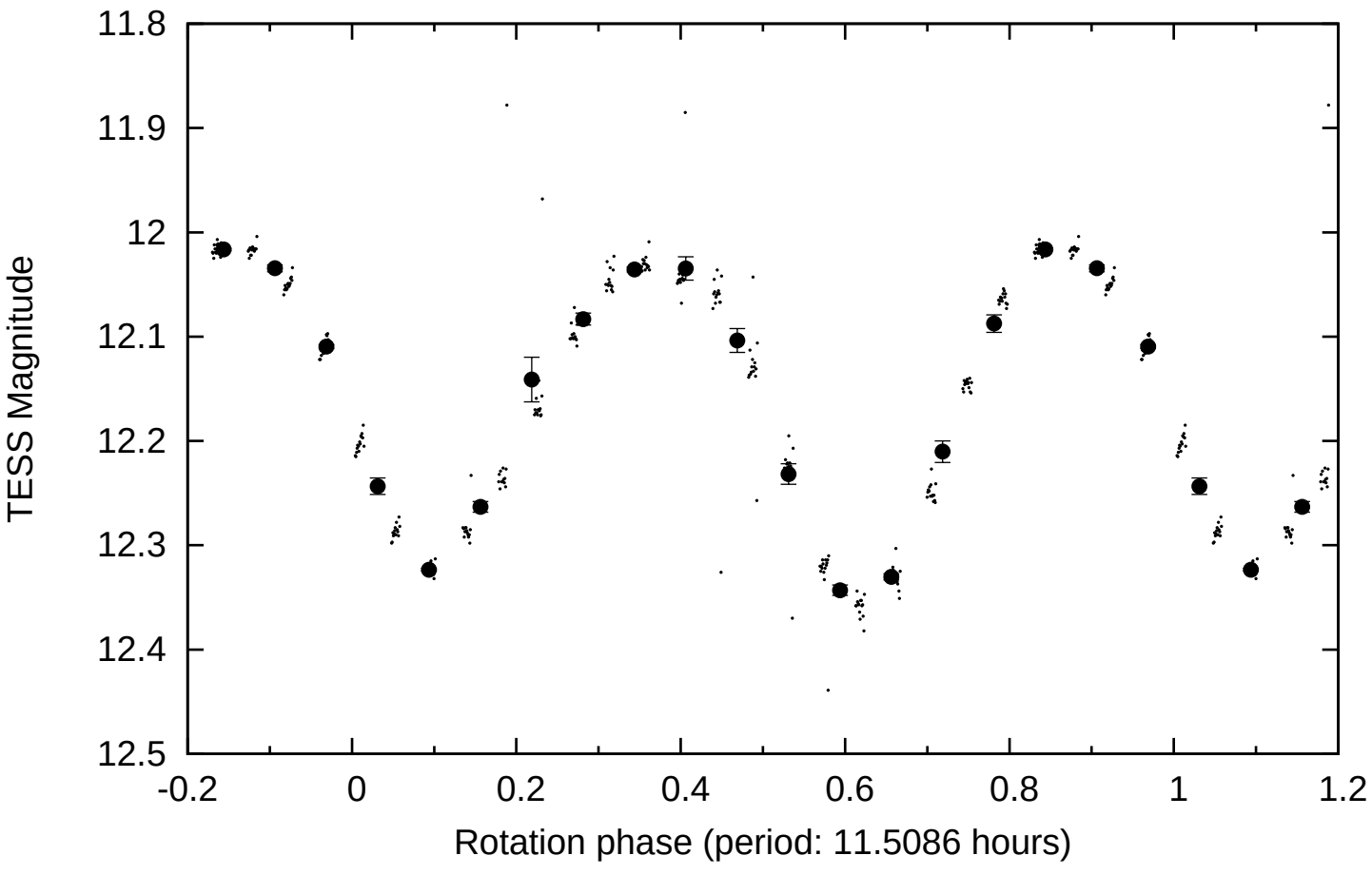

12.1
12.2
12.3
12.4
12.5
TESS Magnitude
-13
-12
-11
-10
-9
-8
-7
Time (JD, t-2458450)

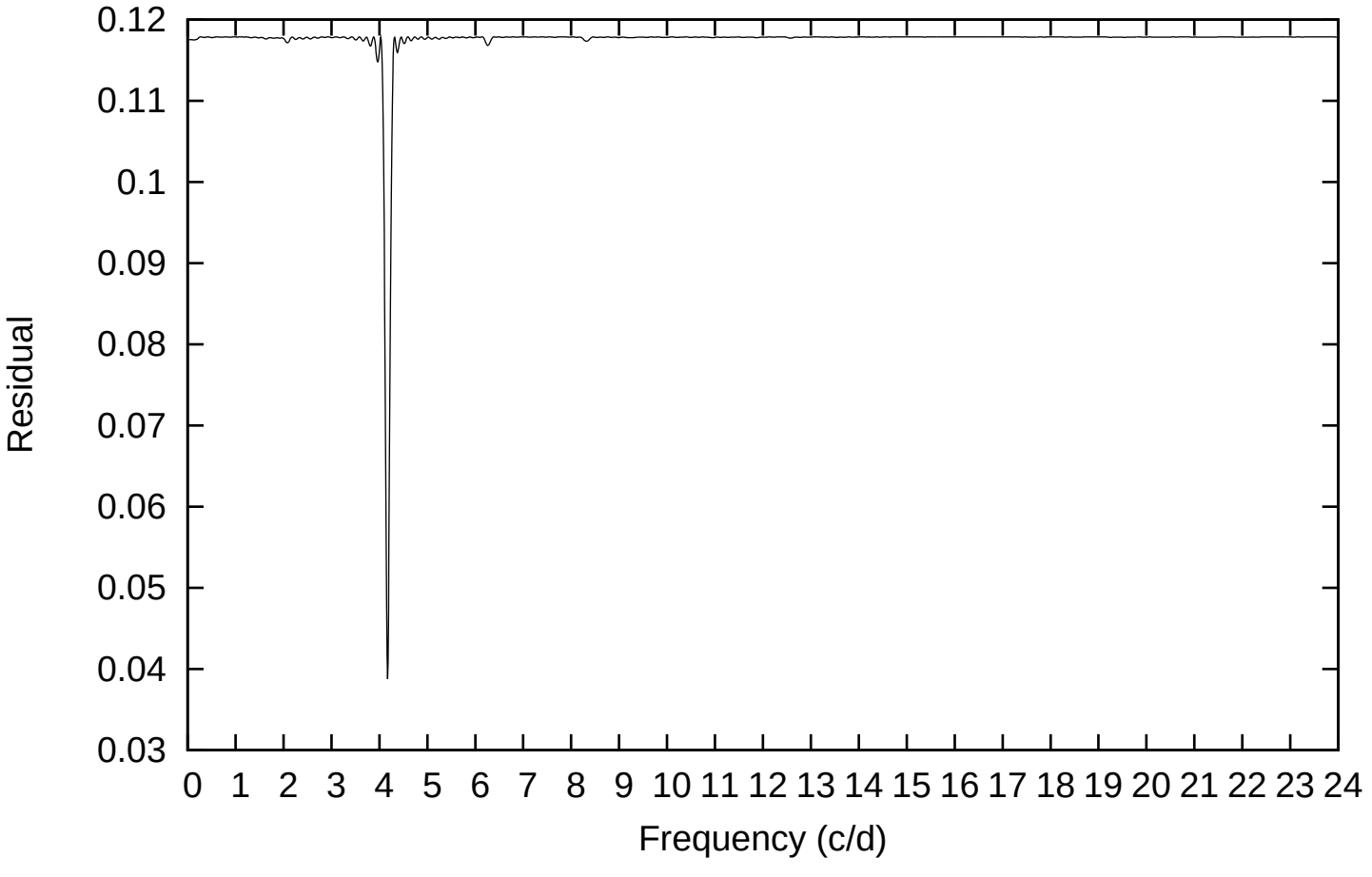

12.1
12.15
12.2
12.25
12.3
12.35
12.4
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 3.96875 hours)


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 21 22 23 24
Frequency (c/d)

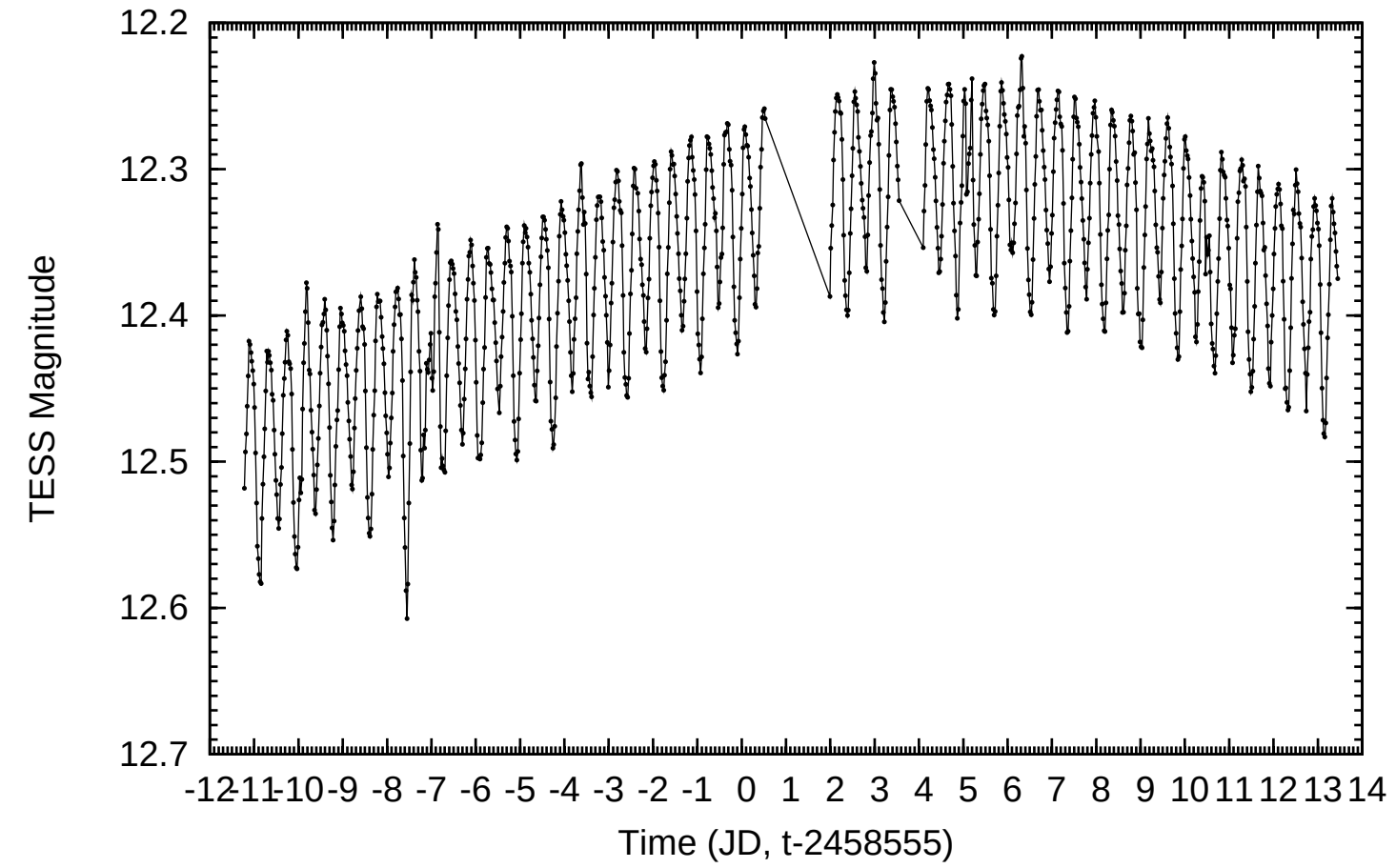
136

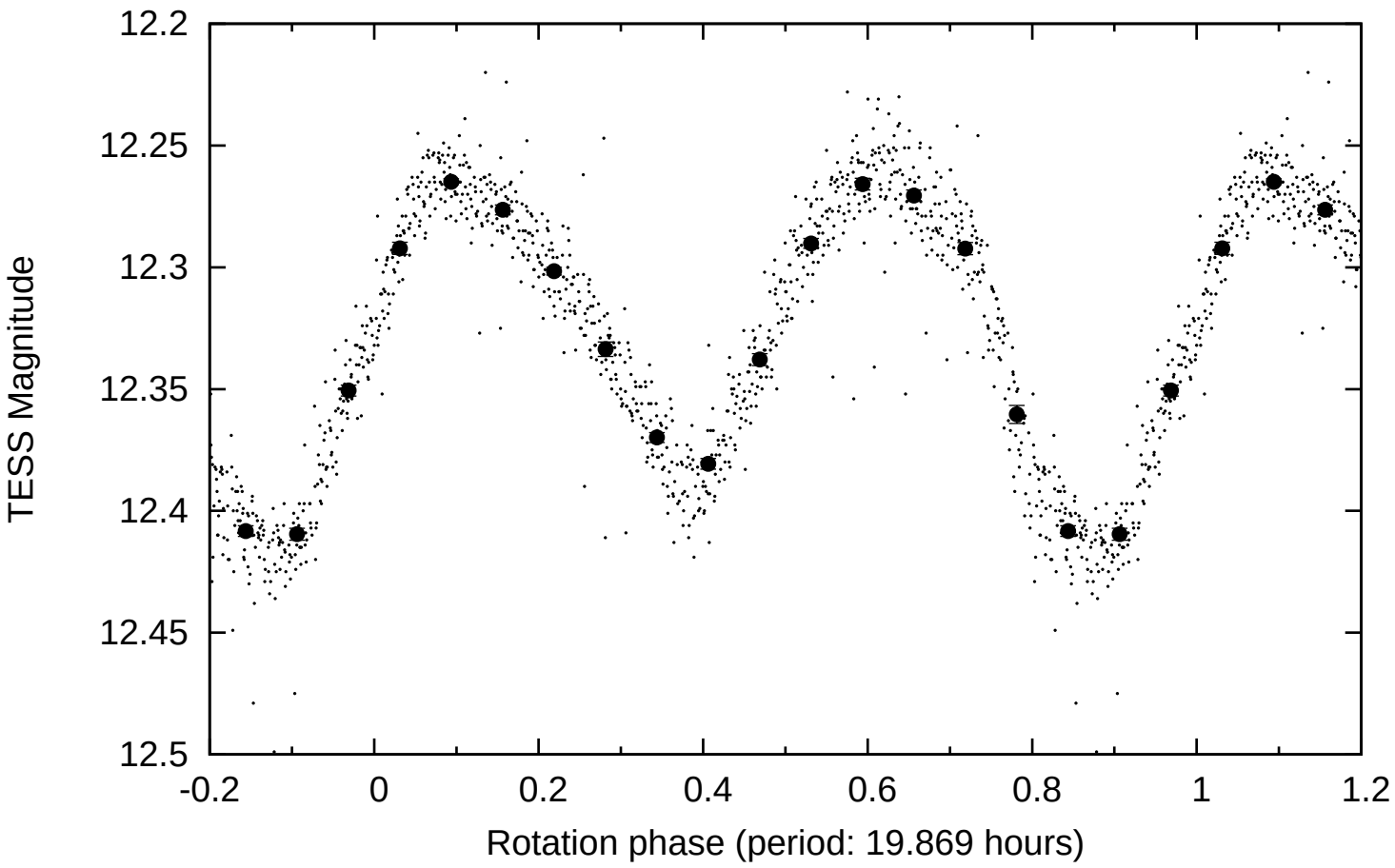

TESS Magnitude
11.9
12
12.1
12.2
12.3
12.4
12.5
5
6
7
8
9
10
11
12
Time (JD, t-2458530)

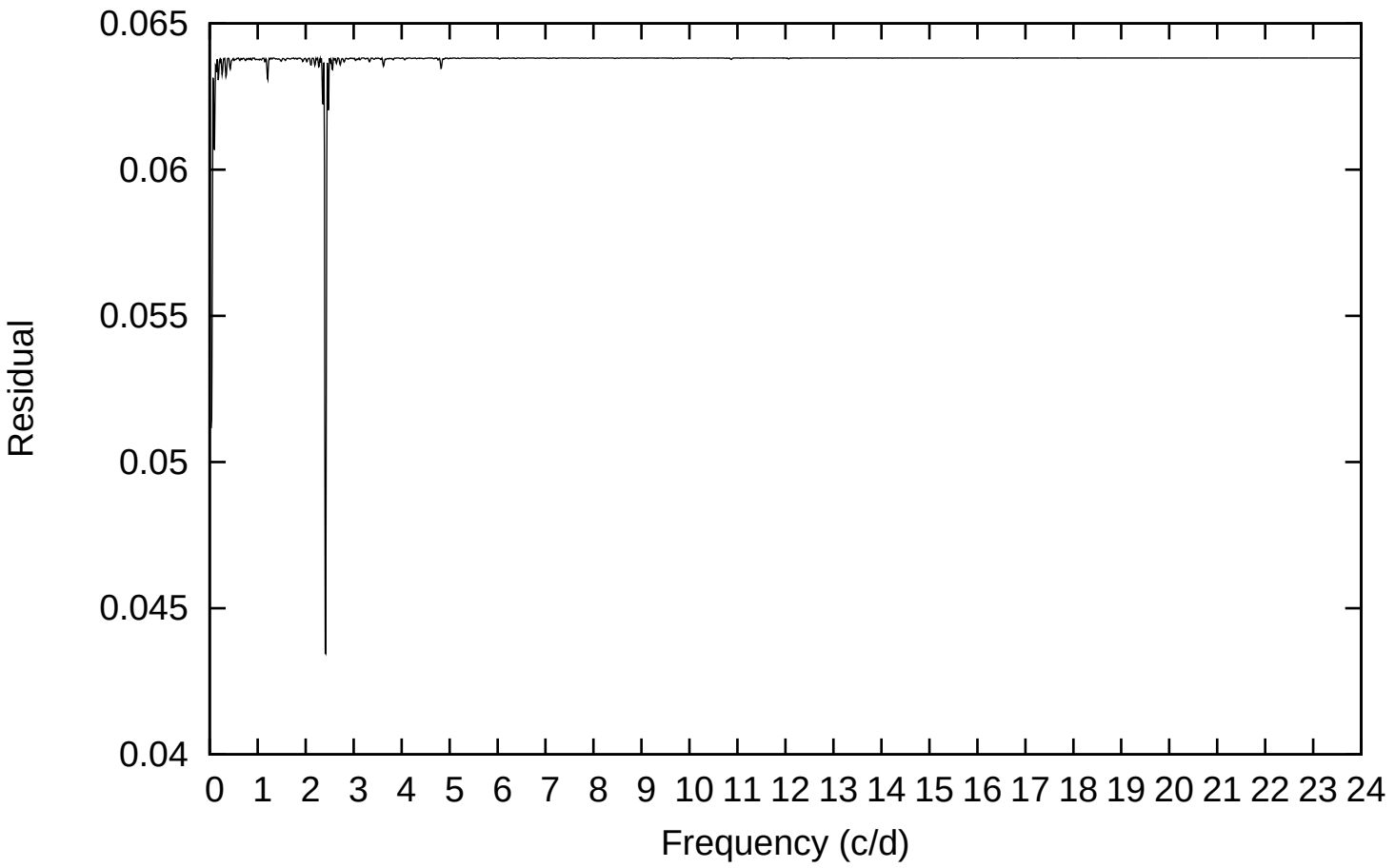

TESS Magnitude
11.8
11.9
12
12.1
12.2
12.3
12.4
12.5
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 11.5086 hours)


Residual
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 21 22 23 24
Frequency (c/d)

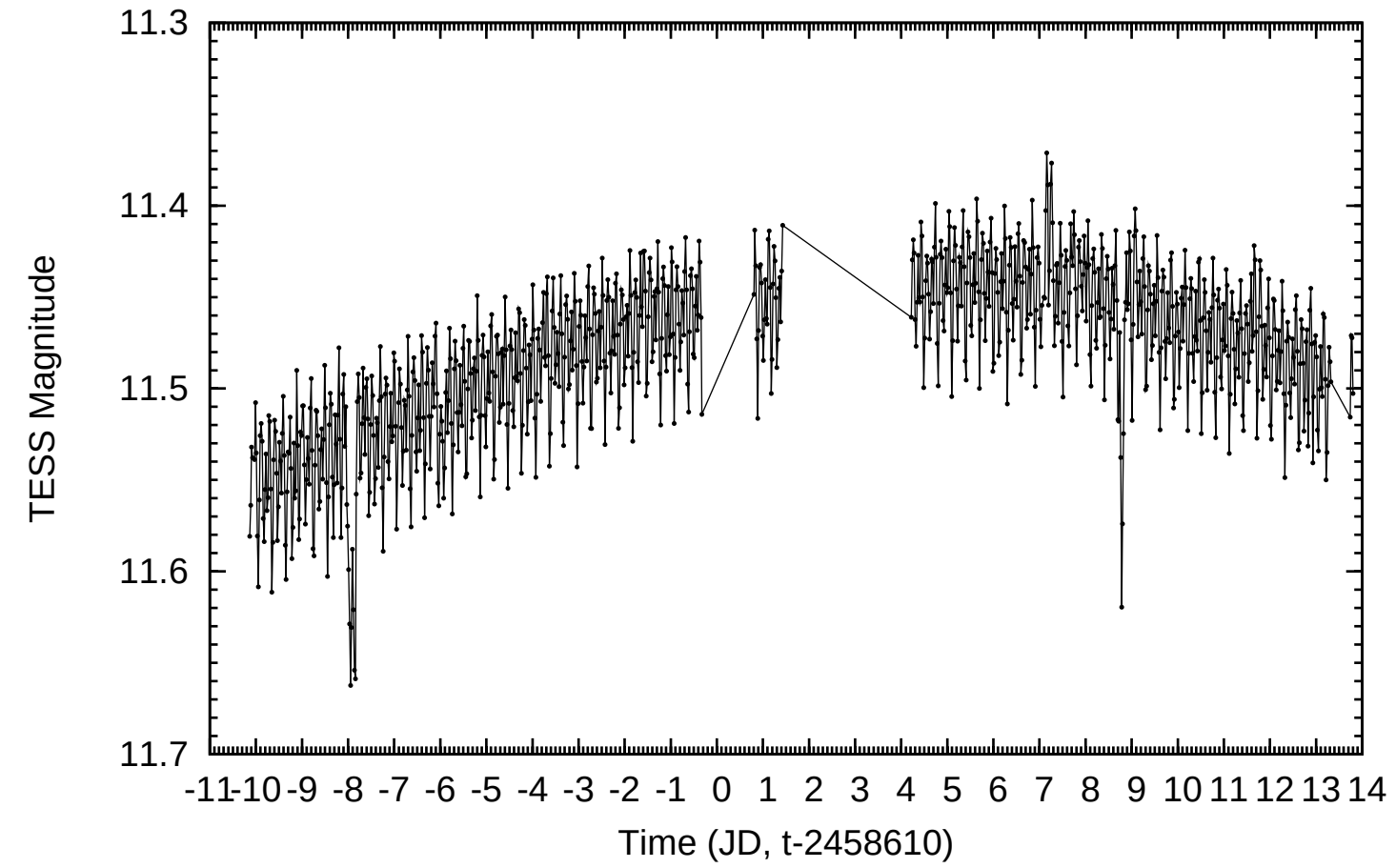
141

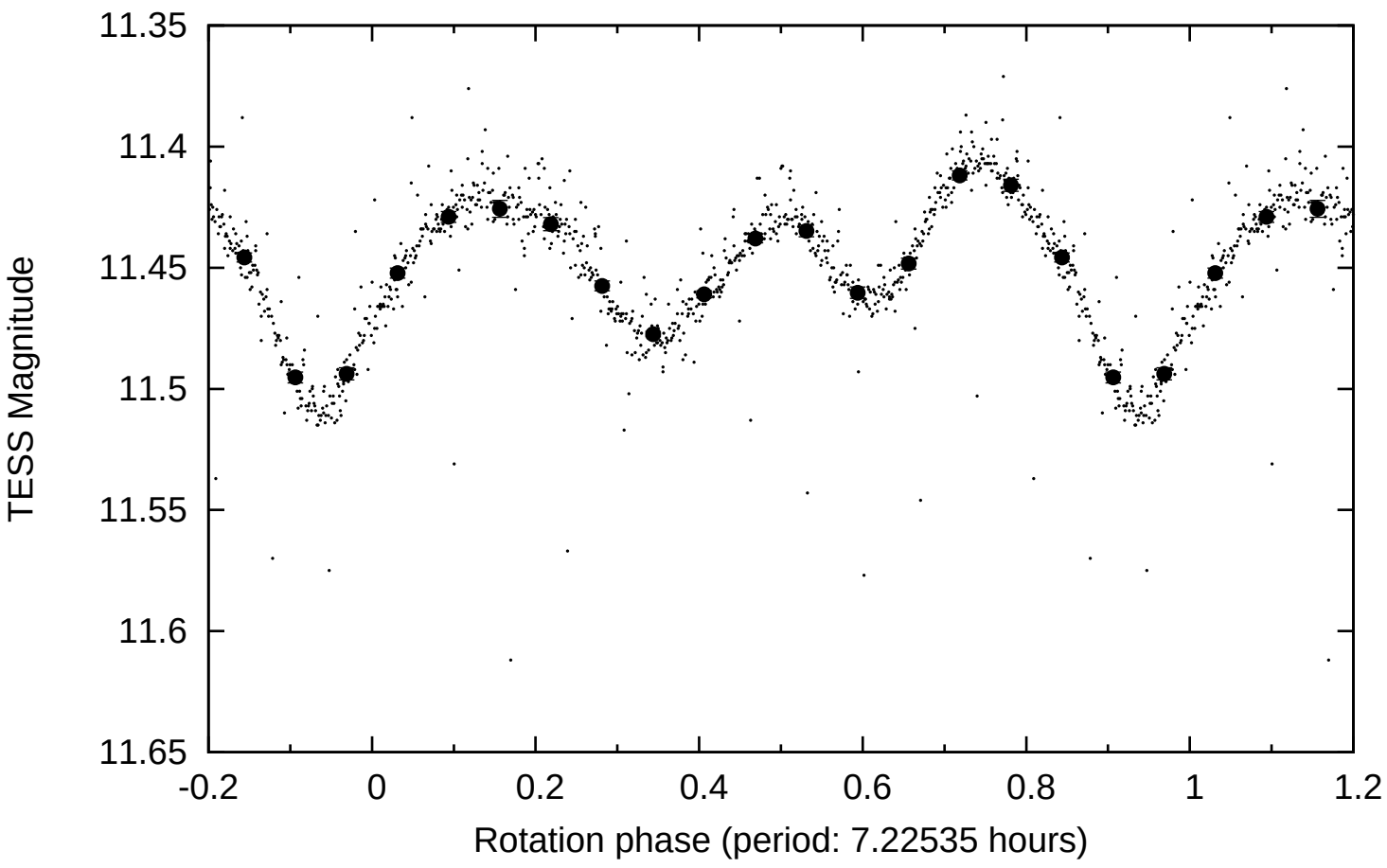

TESS Magnitude
12.2
12.3
12.4
12.5
12.6
12.7
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

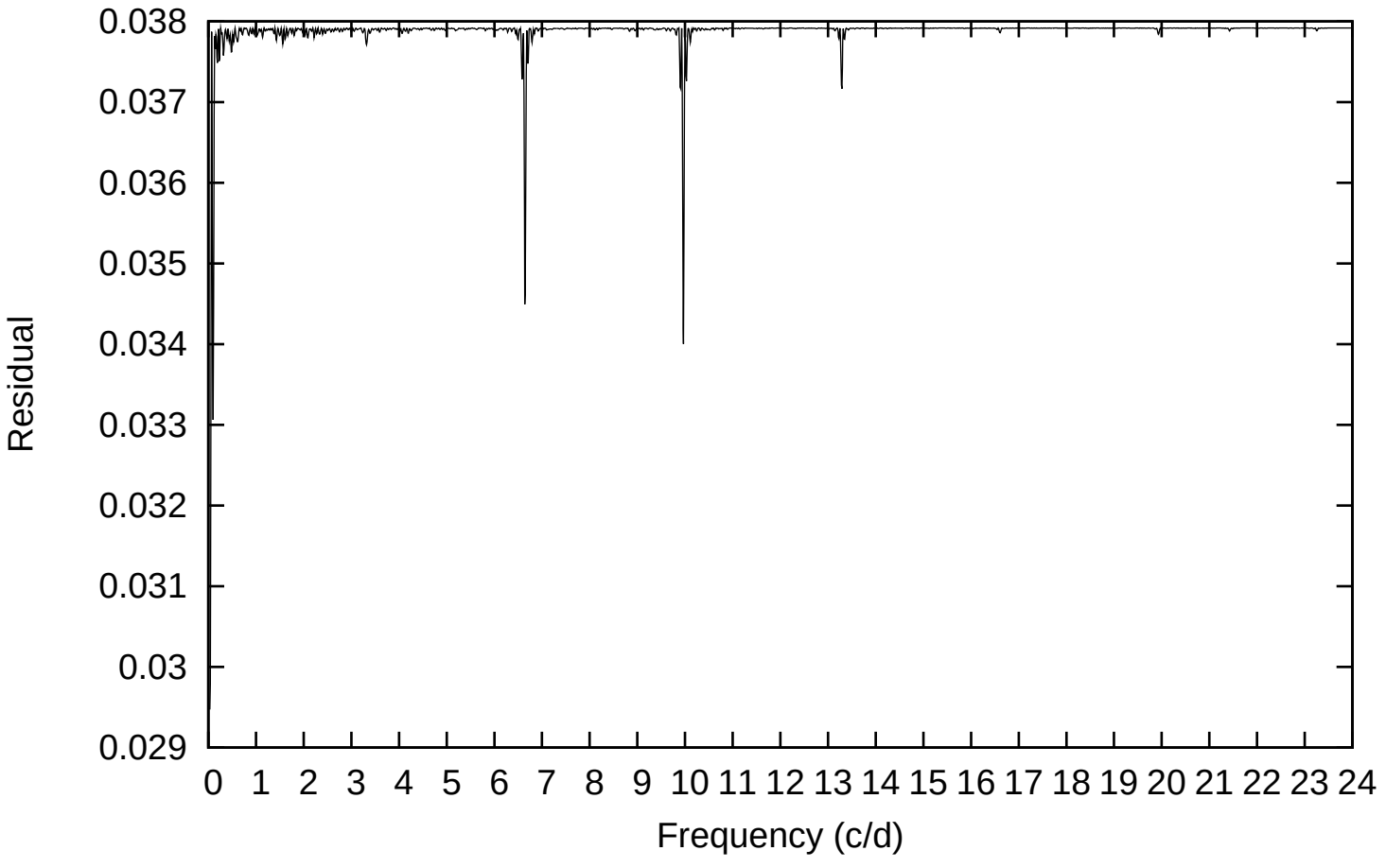

TESS Magnitude
12.2
12.25
12.3
12.35
12.4
12.45
12.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 19.869 hours)


Residual
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 21 22 23 24
Frequency (c/d)

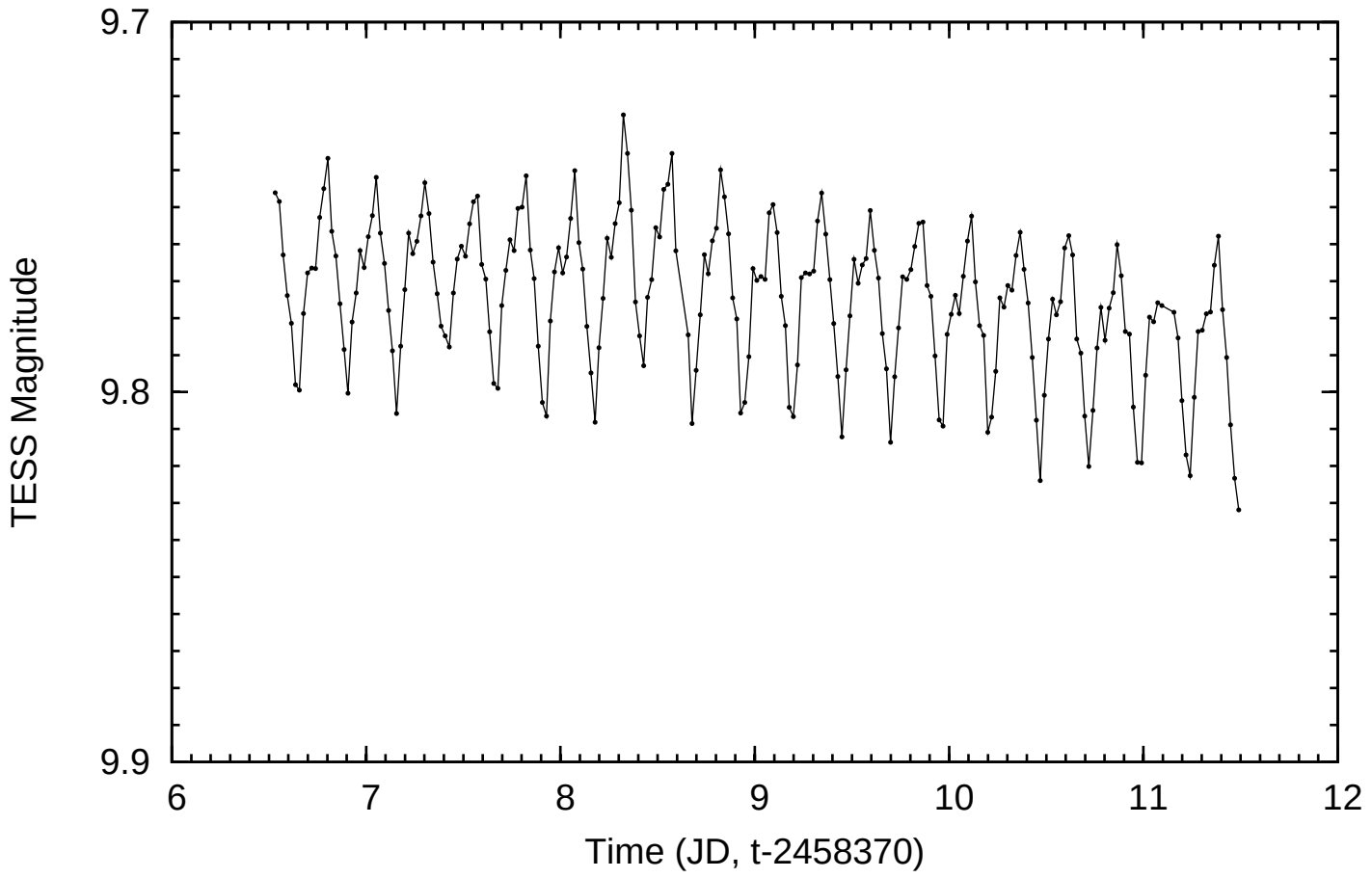
165

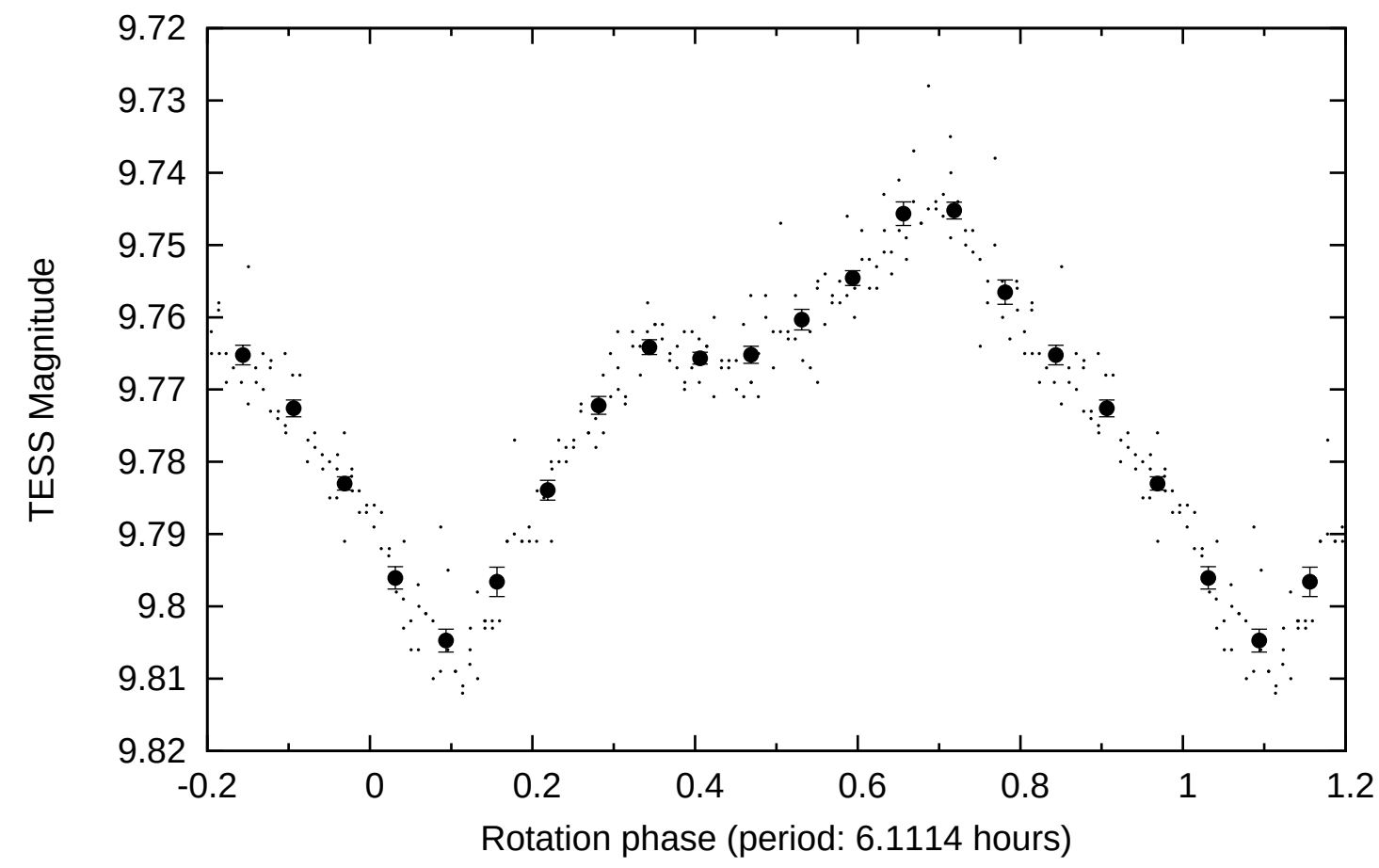

11.3
11.4
11.5
11.6
11.7
TESS Magnitude
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458610)

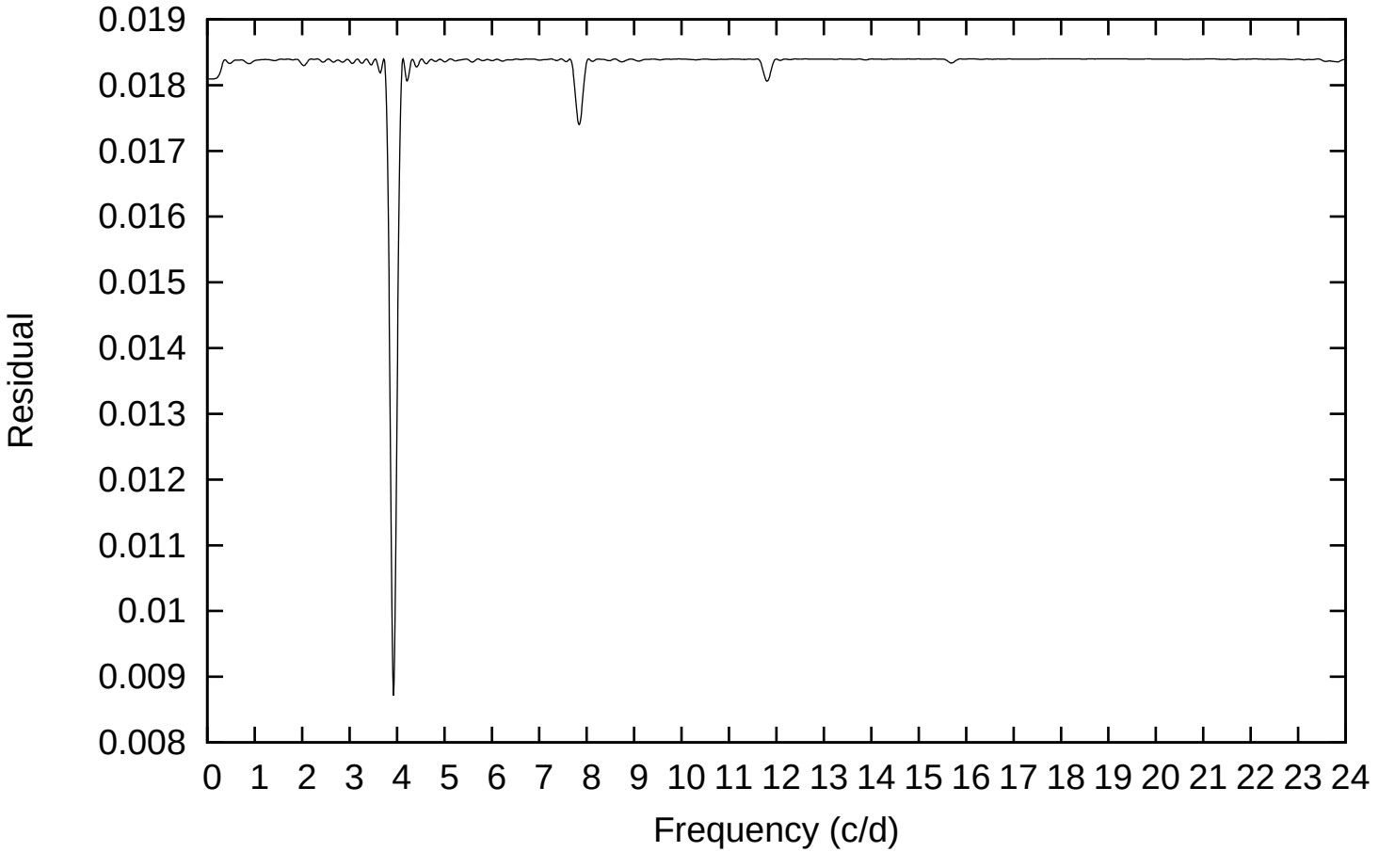

11.35
11.4
11.45
11.5
11.55
11.6
11.65
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.22535 hours)


0.038
0.037
0.036
0.035
0.034
0.033
0.032
0.031
0.03
0.029
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

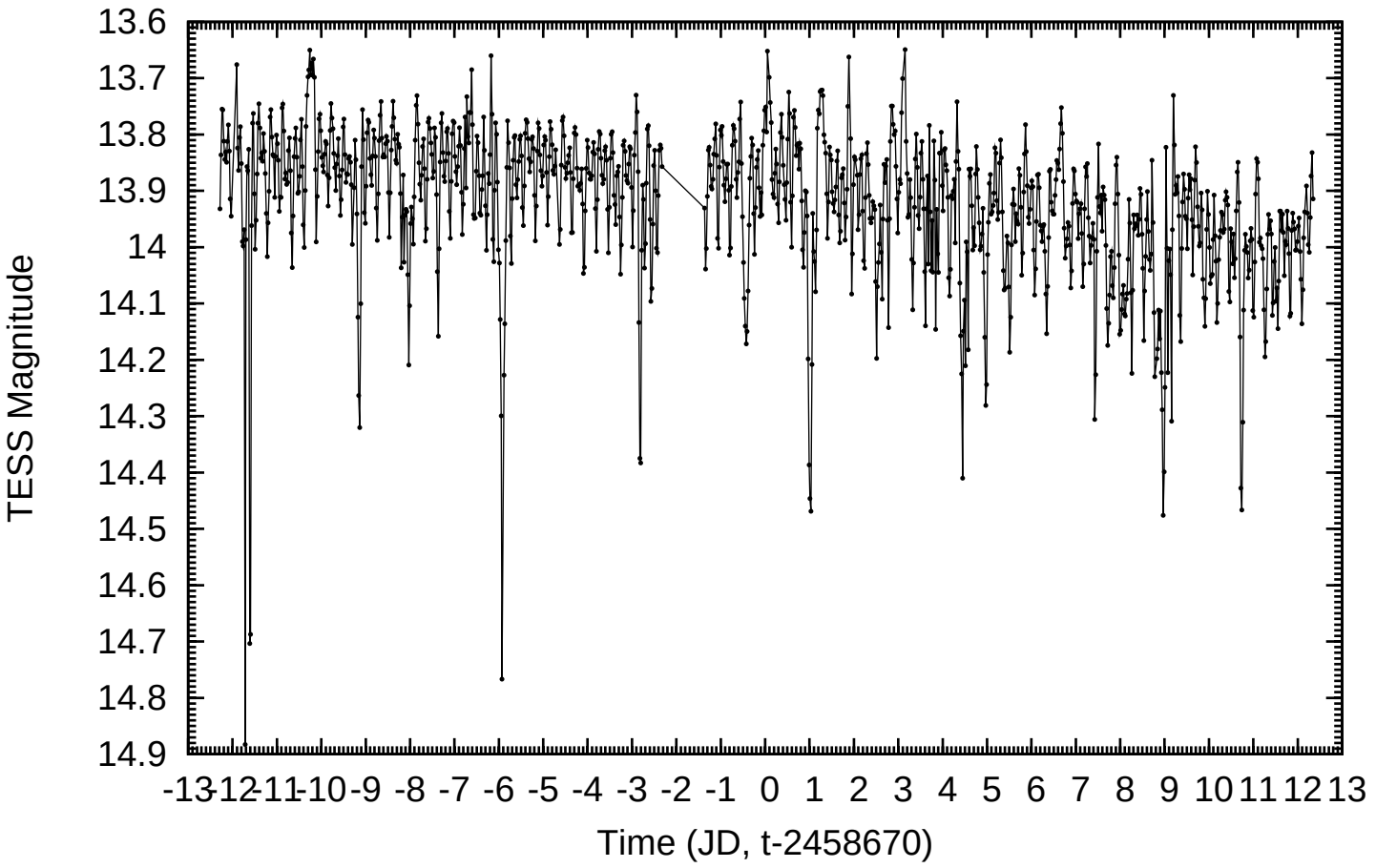
173

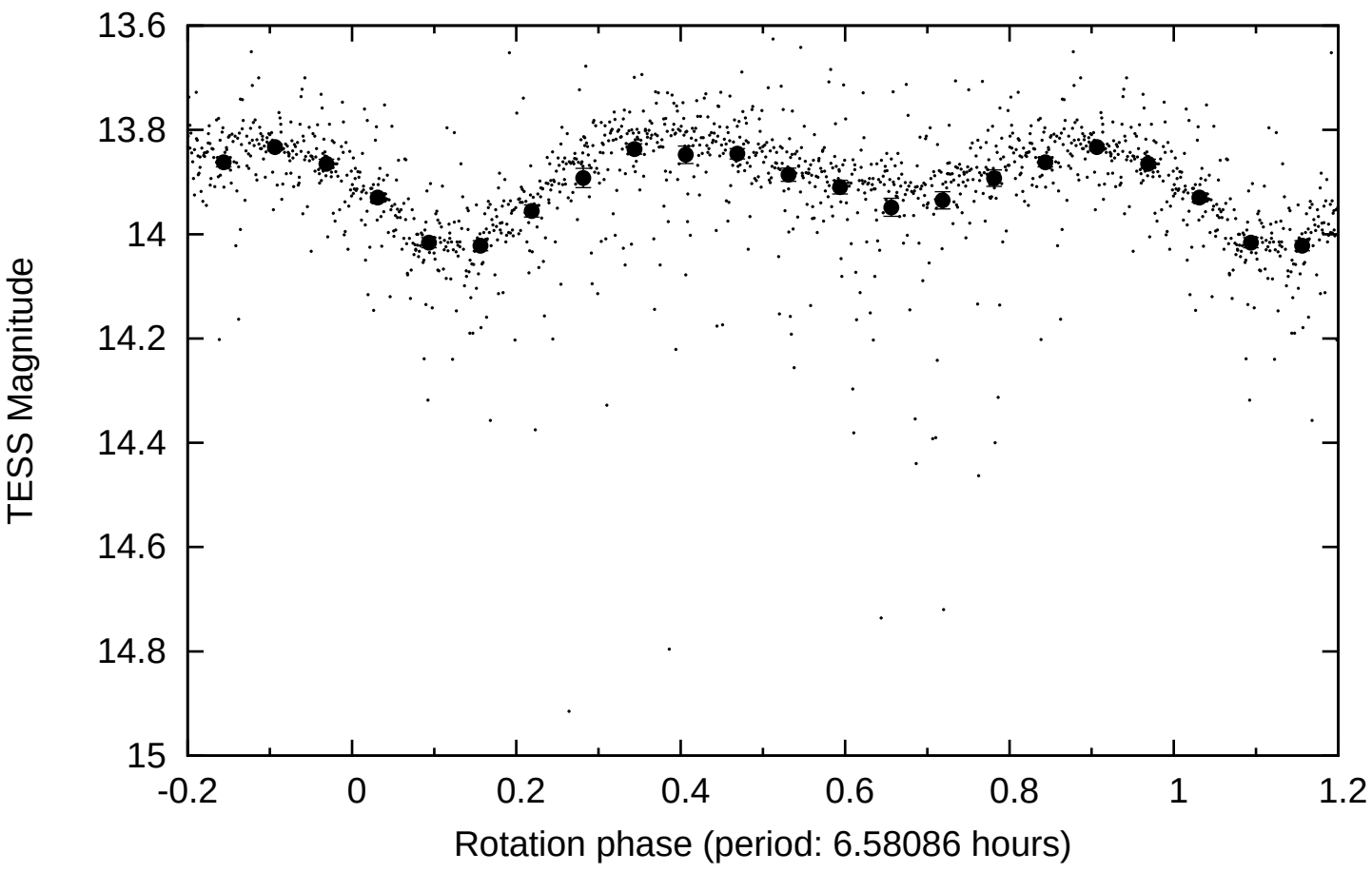

9.7
9.8
9.9
TESS Magnitude
6
7
8
9
10
11
12
Time (JD, t-2458370)

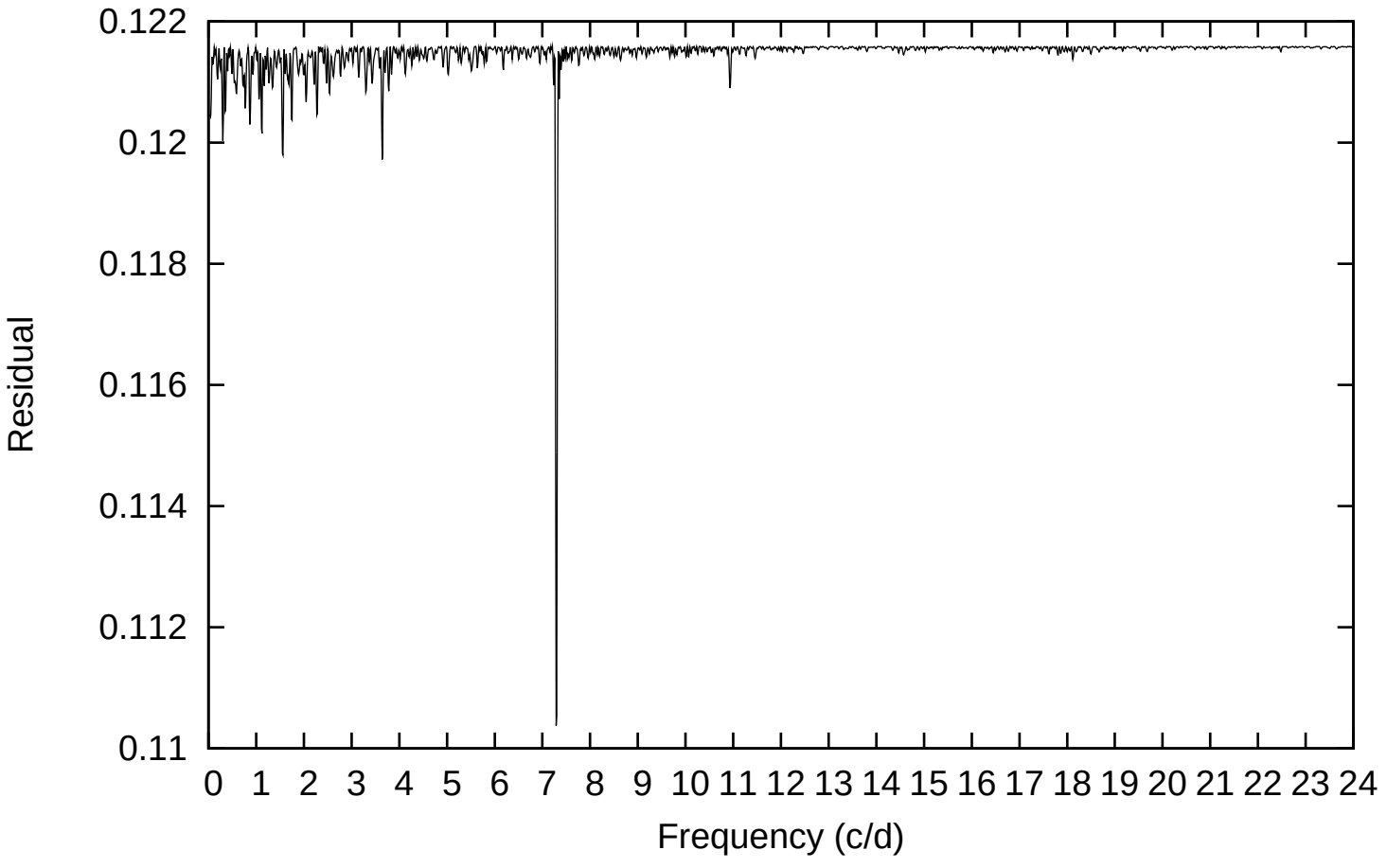

9.72
9.73
9.74
9.75
9.76
9.77
9.78
9.79
9.8
9.81
9.82
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 6.1114 hours)


0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

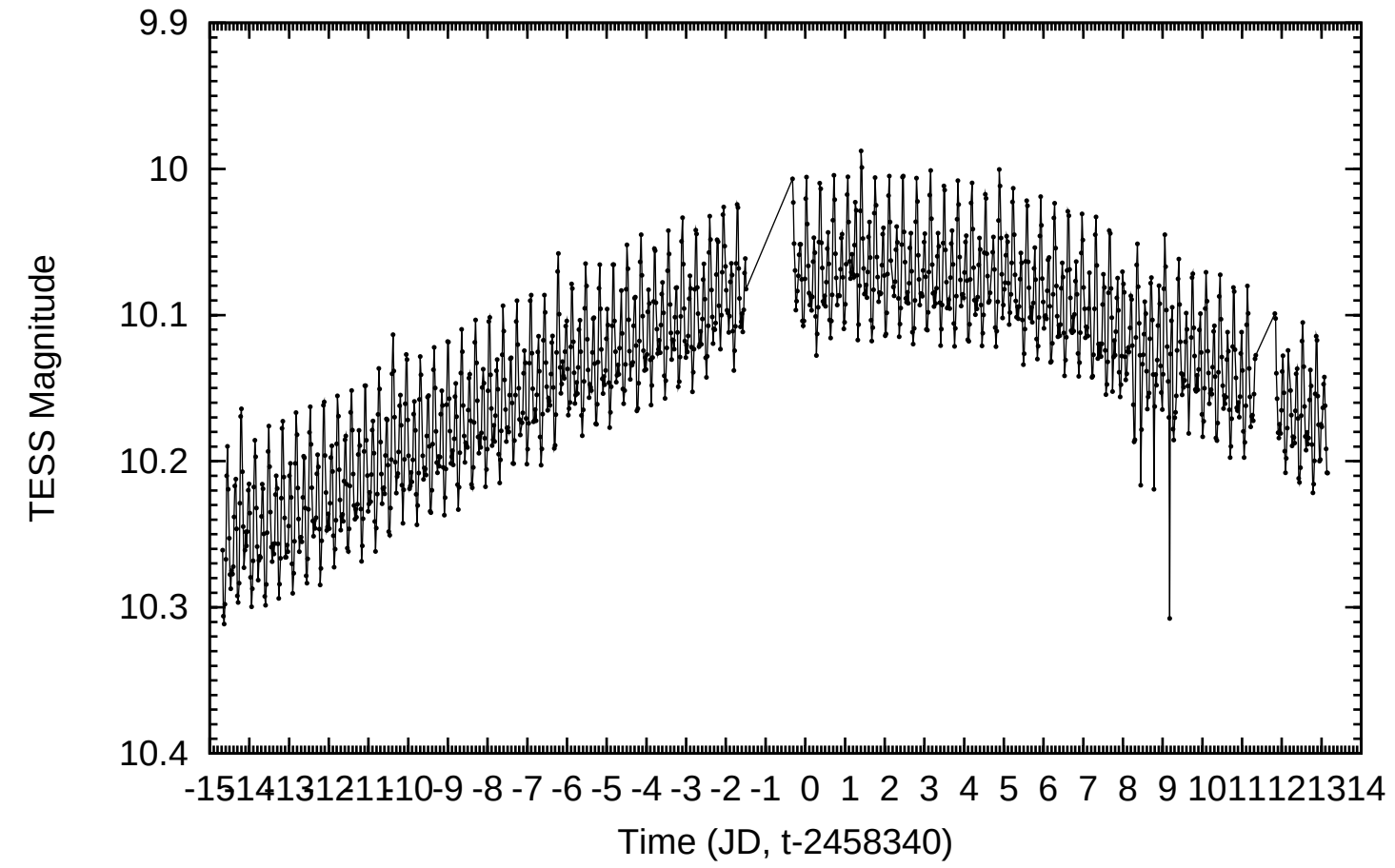
193

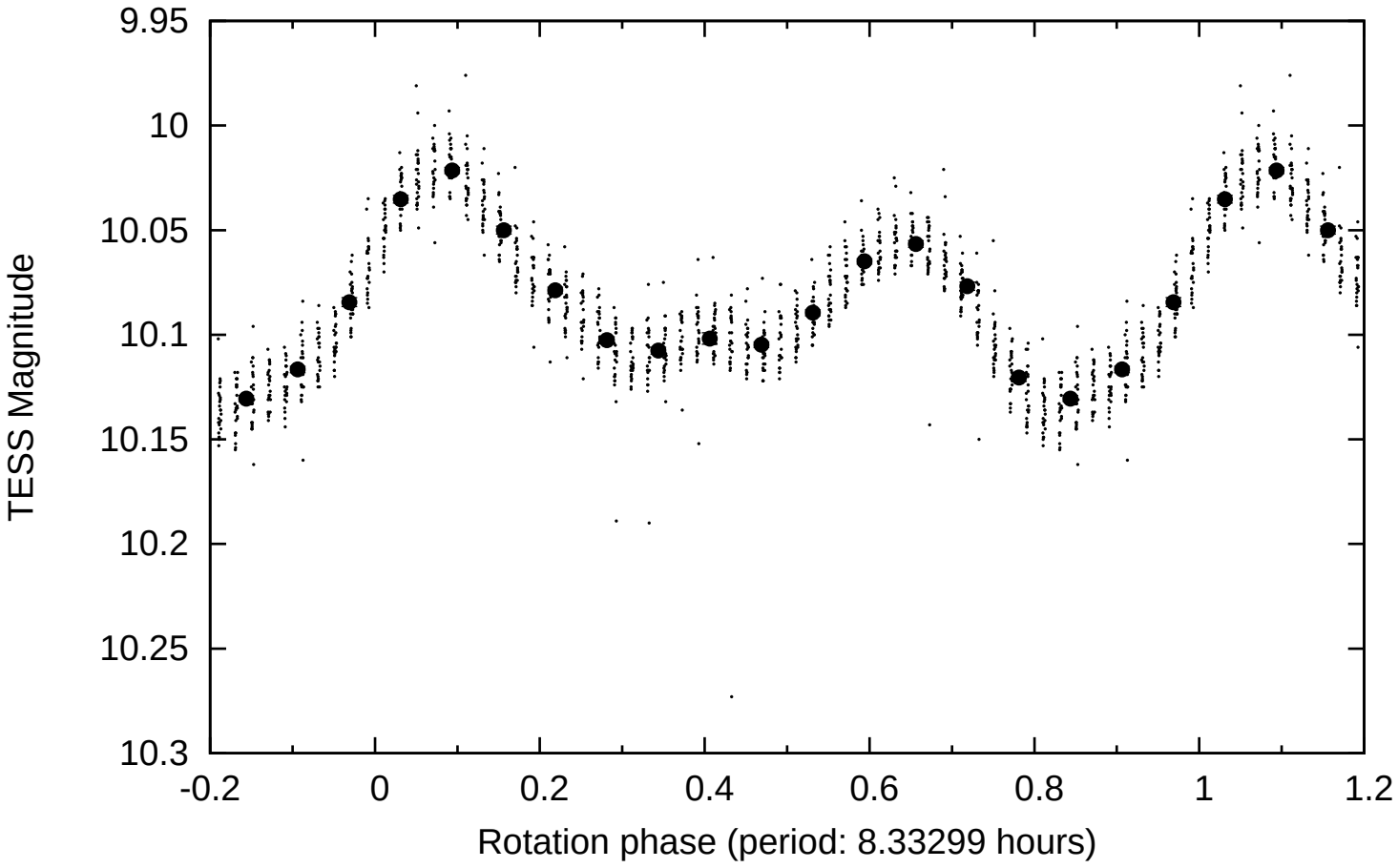

TESS Magnitude
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
14.6
14.7
14.8
14.9
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458670)

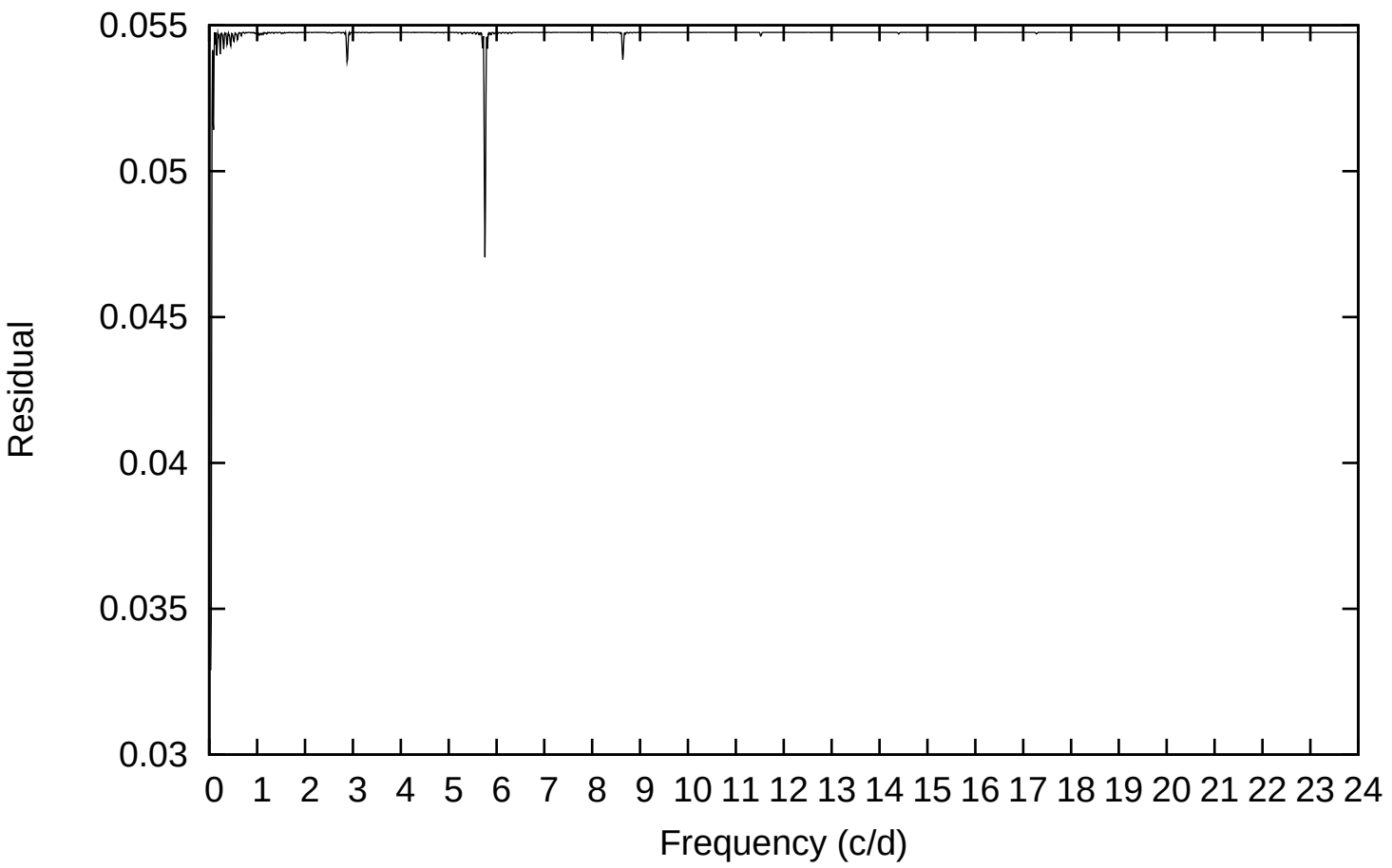

TESS Magnitude
13.6
13.8
14
14.2
14.4
14.6
14.8
15
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 6.58086 hours)


Residual
0.122
0.12
0.118
0.116
0.114
0.112
0.11
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

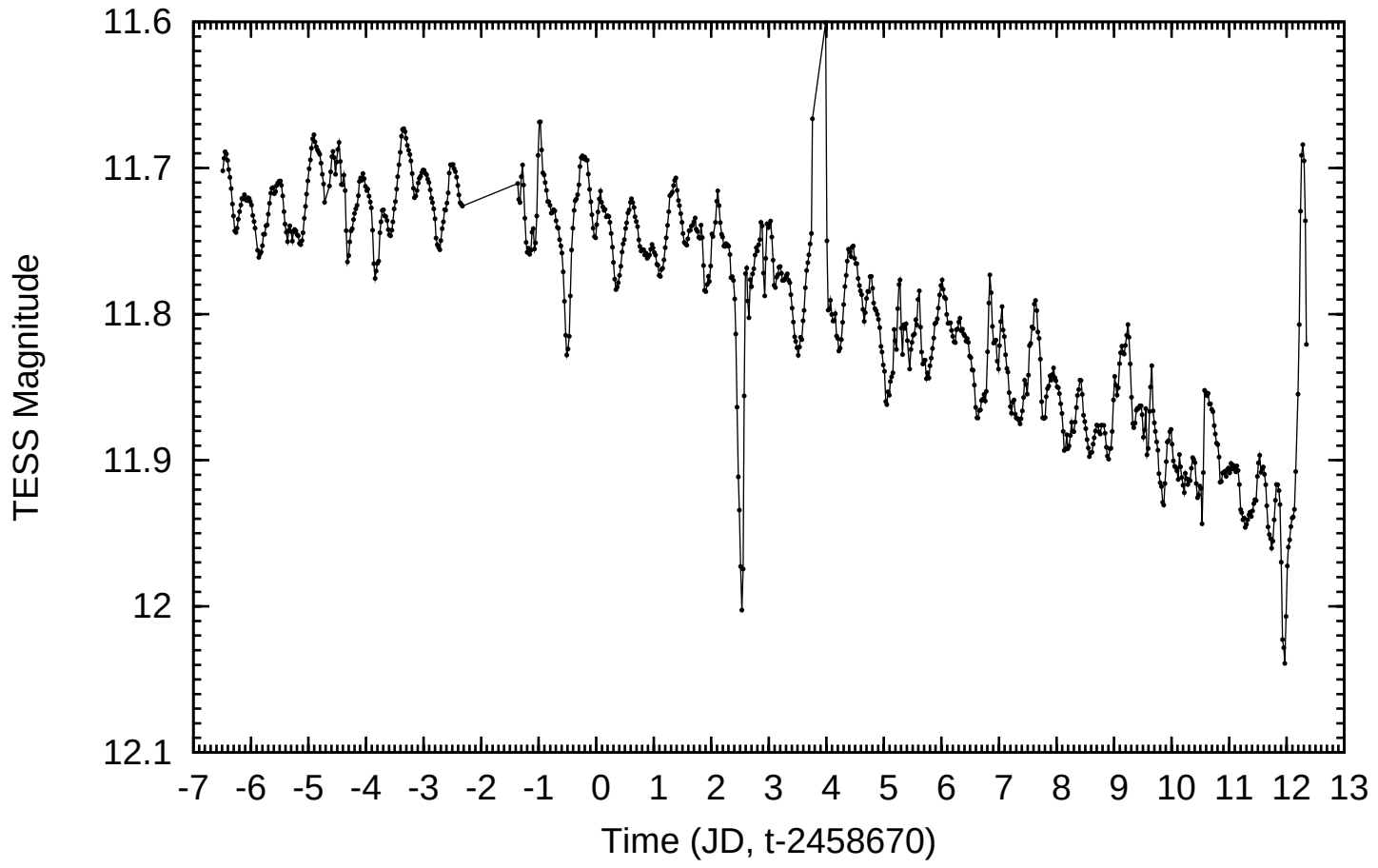
196

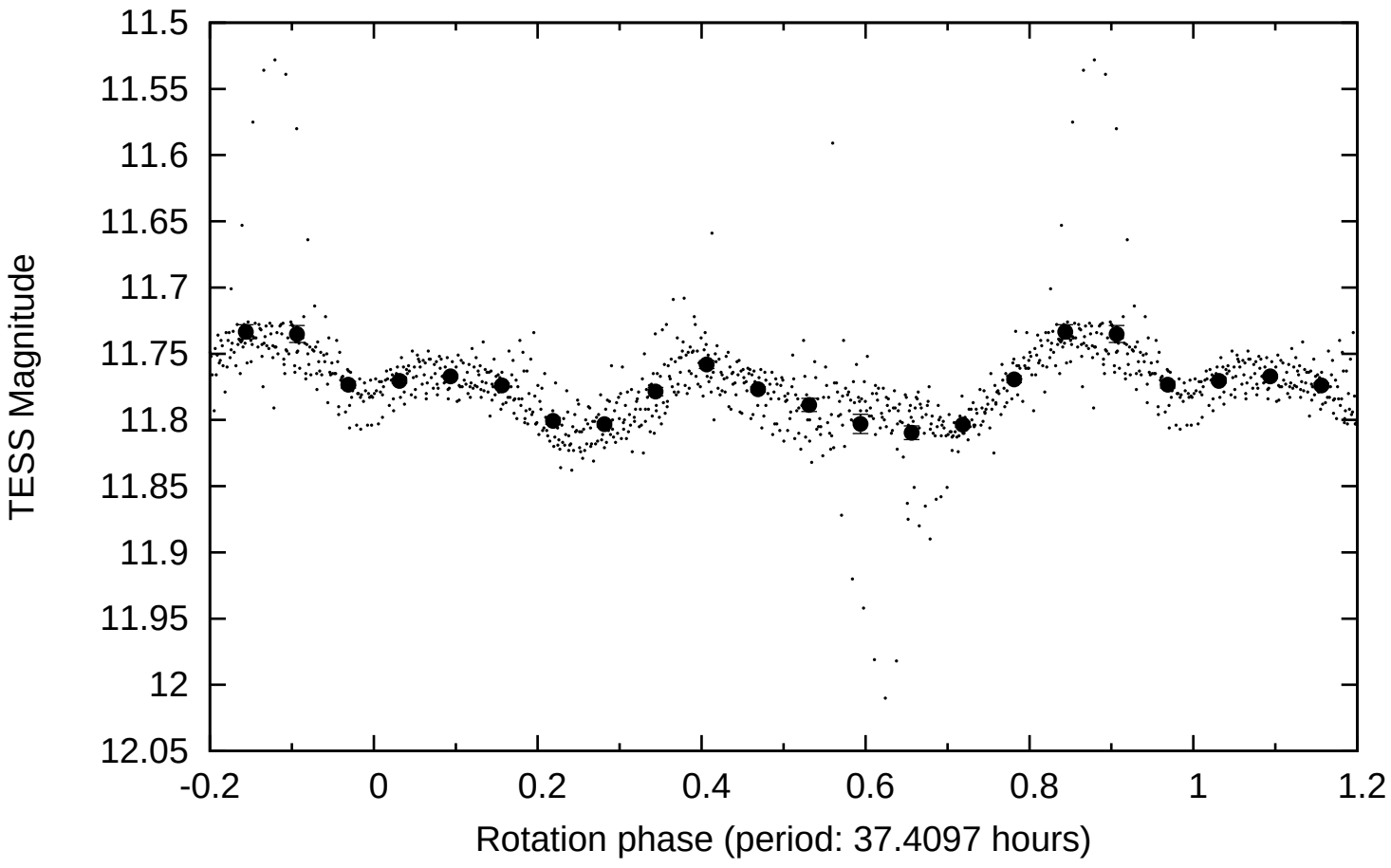

TESS Magnitude
9.9
10
10.1
10.2
10.3
10.4
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458340)

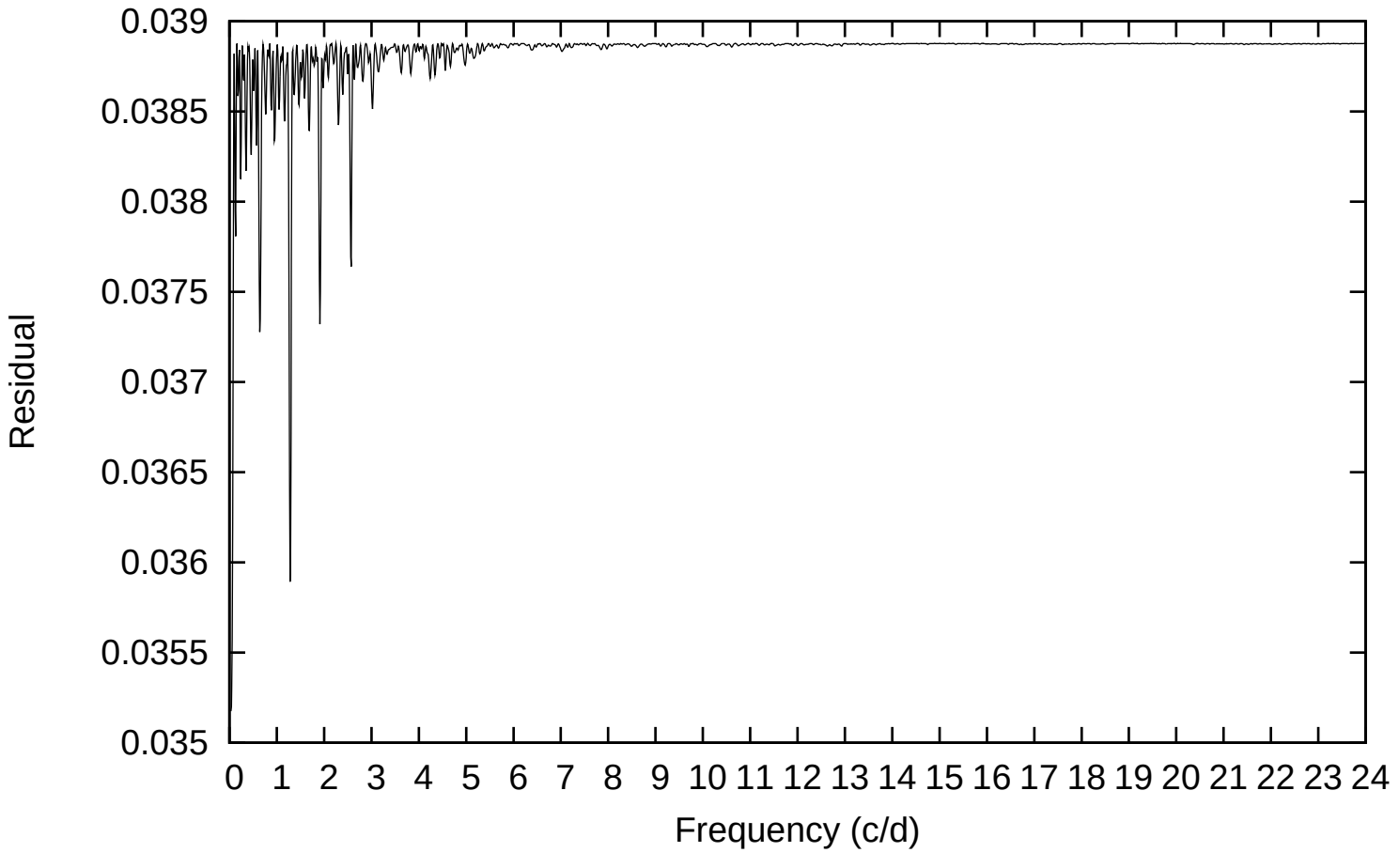

TESS Magnitude
9.95
10
10.05
10.1
10.15
10.2
10.25
10.3
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.33299 hours)


Residual
0.055
0.05
0.045
0.04
0.035
0.03
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

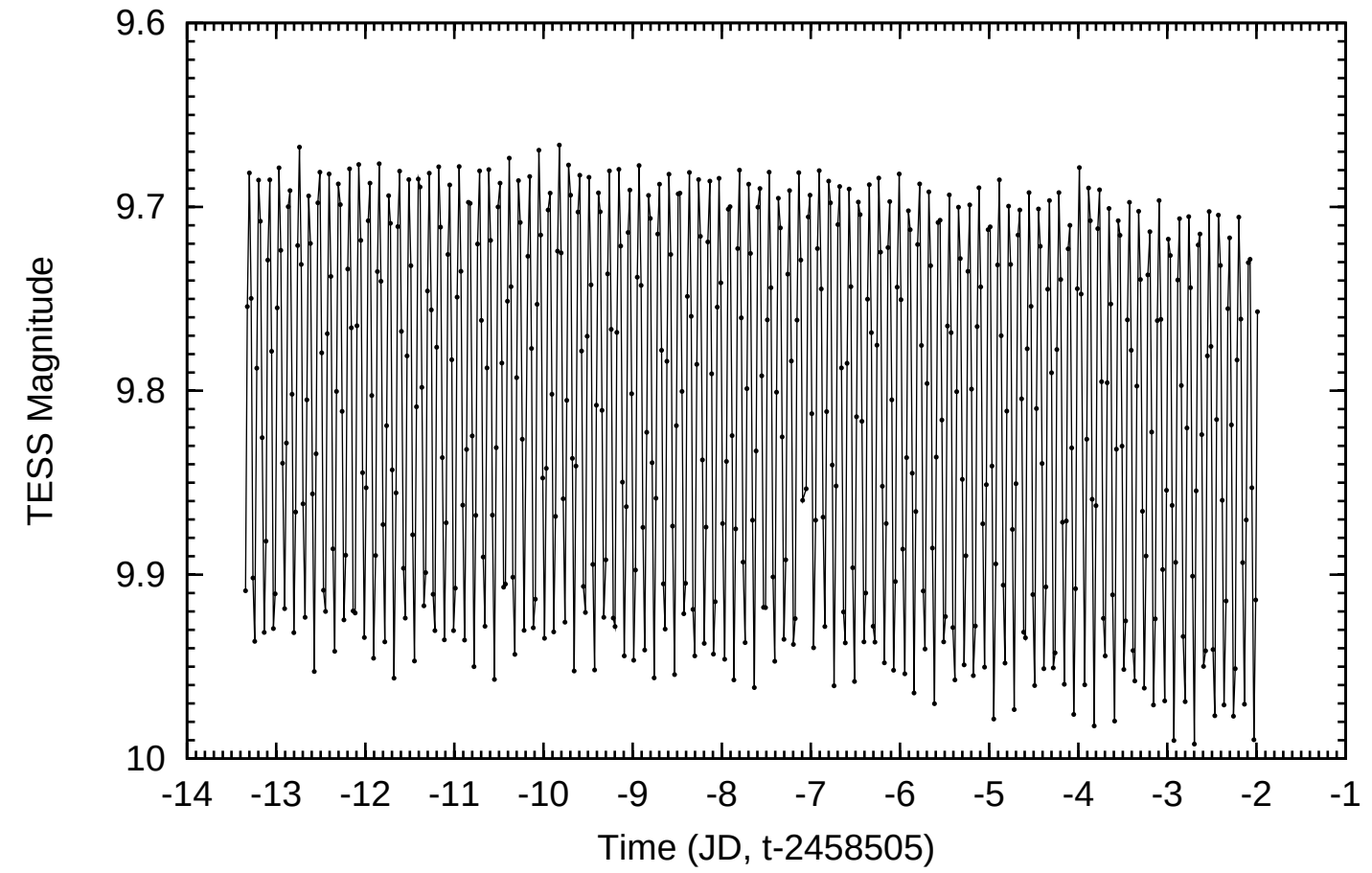
200

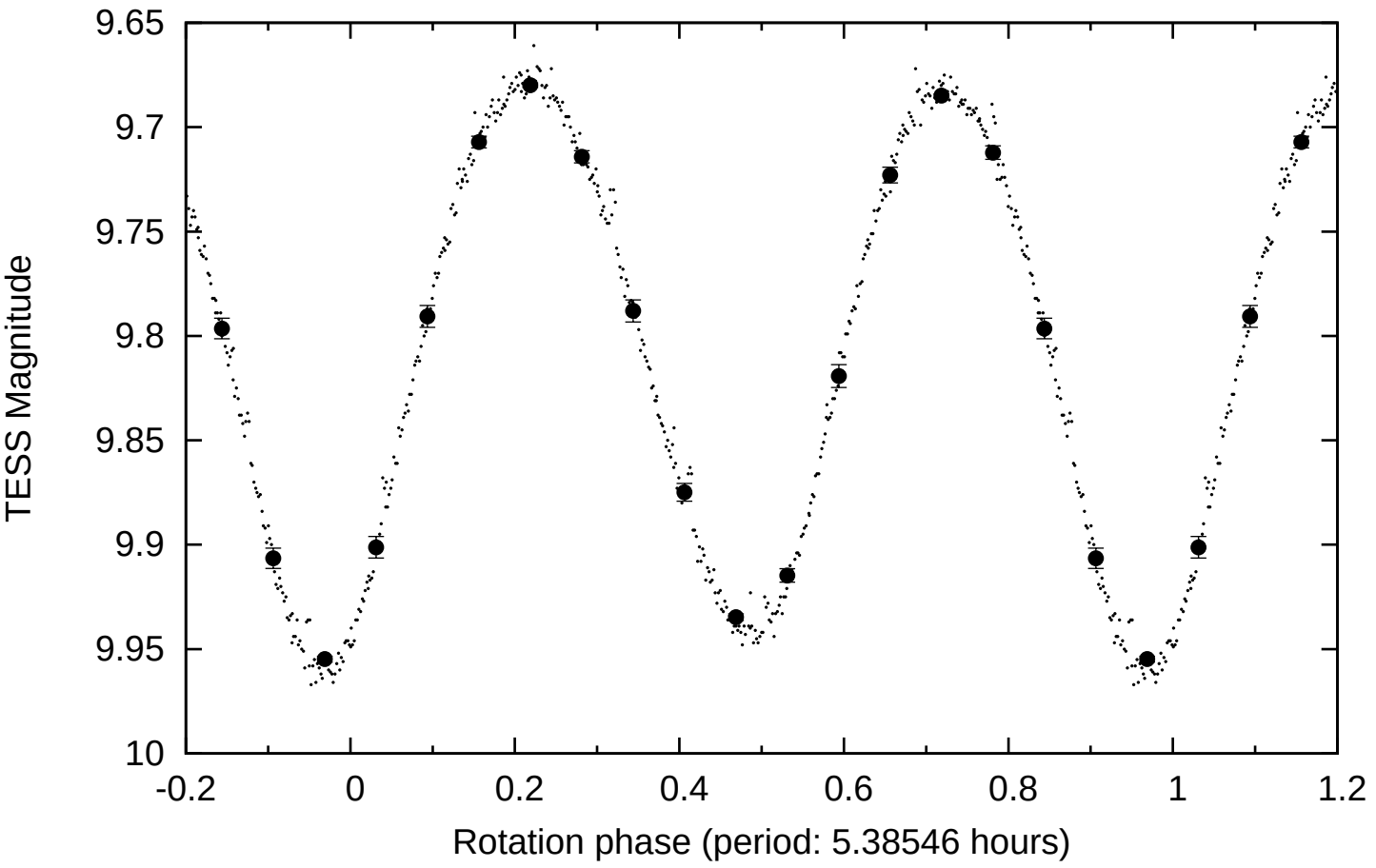

TESS Magnitude
11.6
11.7
11.8
11.9
12
12.1
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458670)

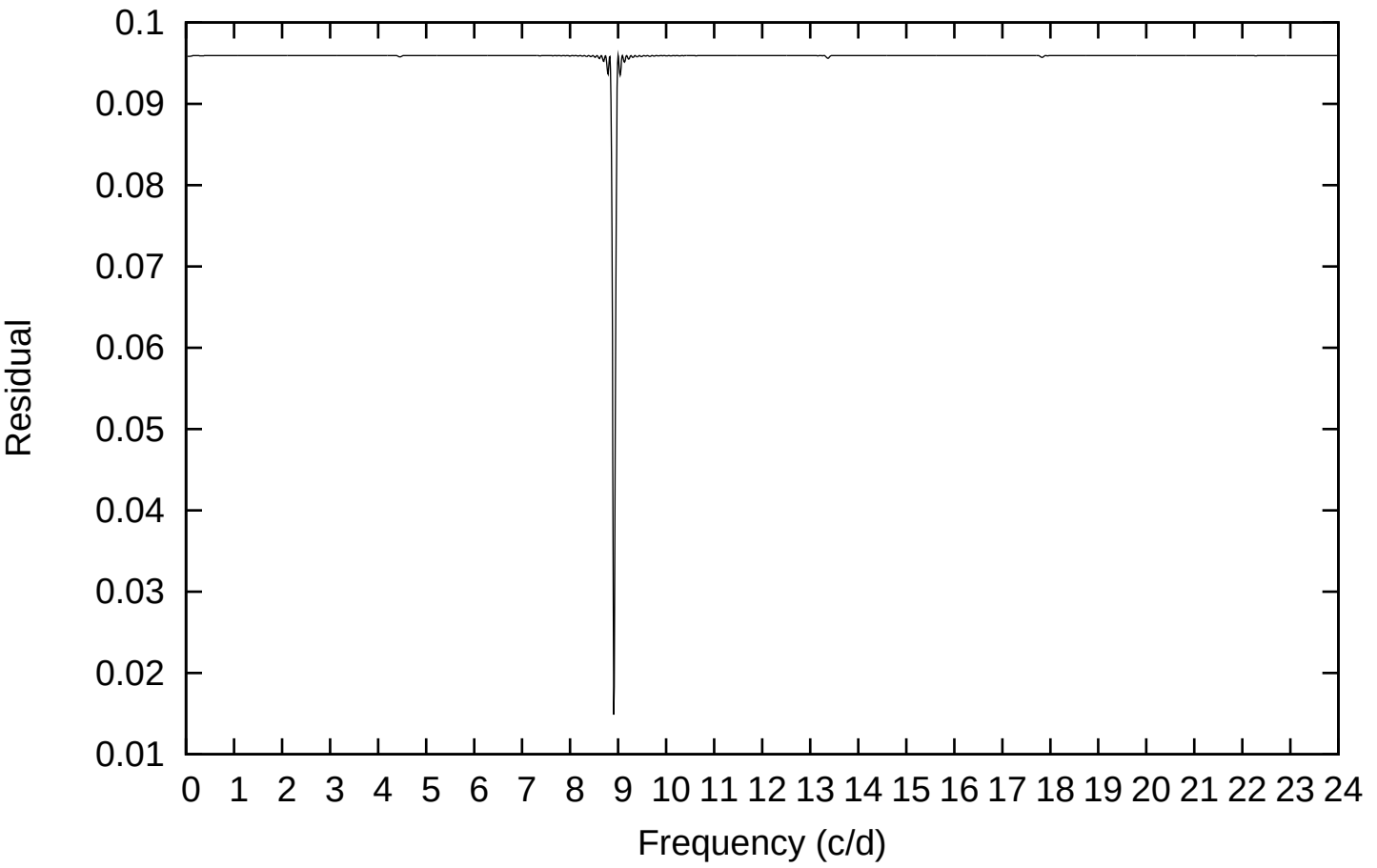

TESS Magnitude
11.5
11.55
11.6
11.65
11.7
11.75
11.8
11.85
11.9
11.95
12
12.05
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 37.4097 hours)


Residual
0.039
0.0385
0.038
0.0375
0.037
0.0365
0.036
0.0355
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

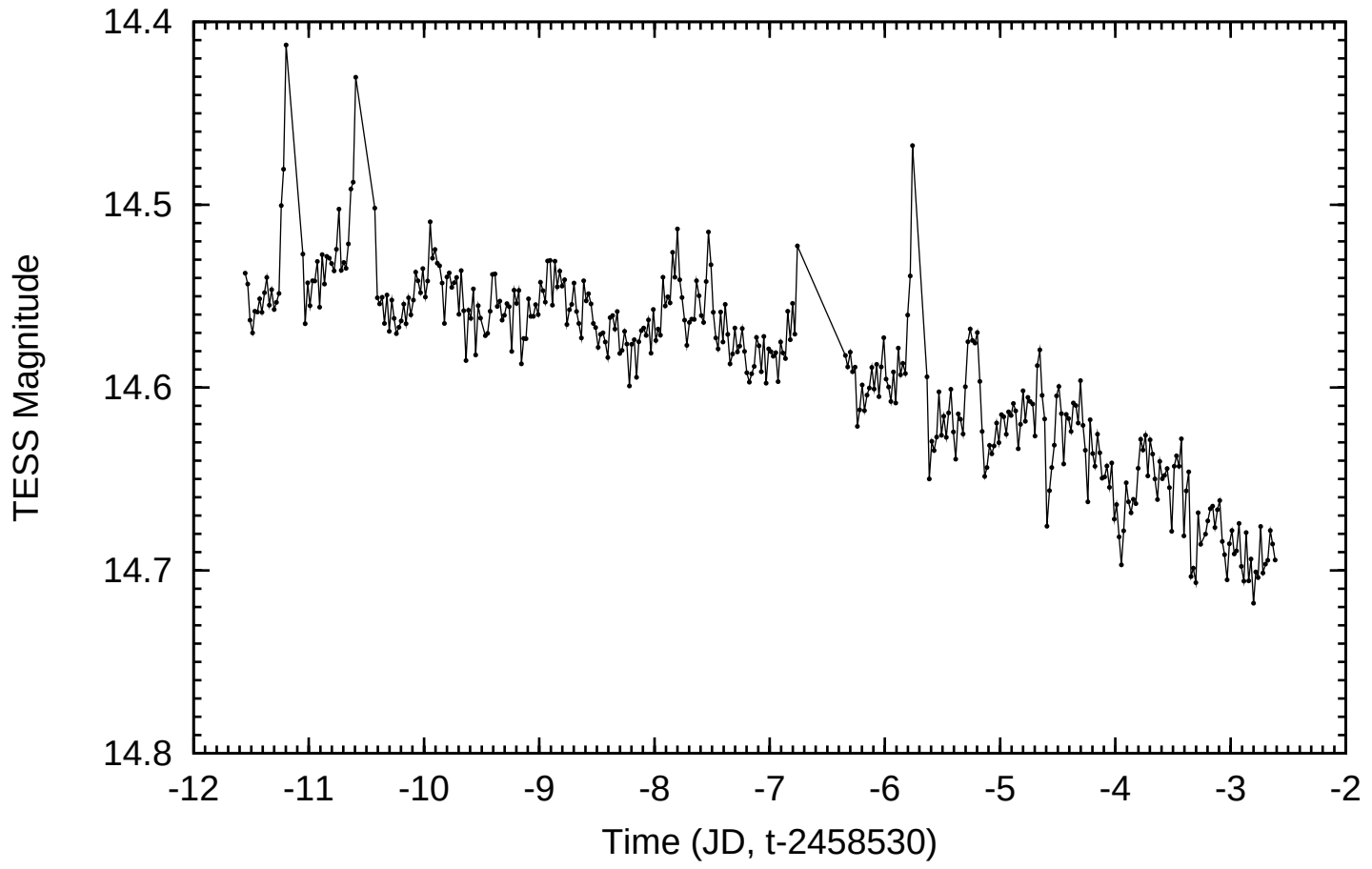
216

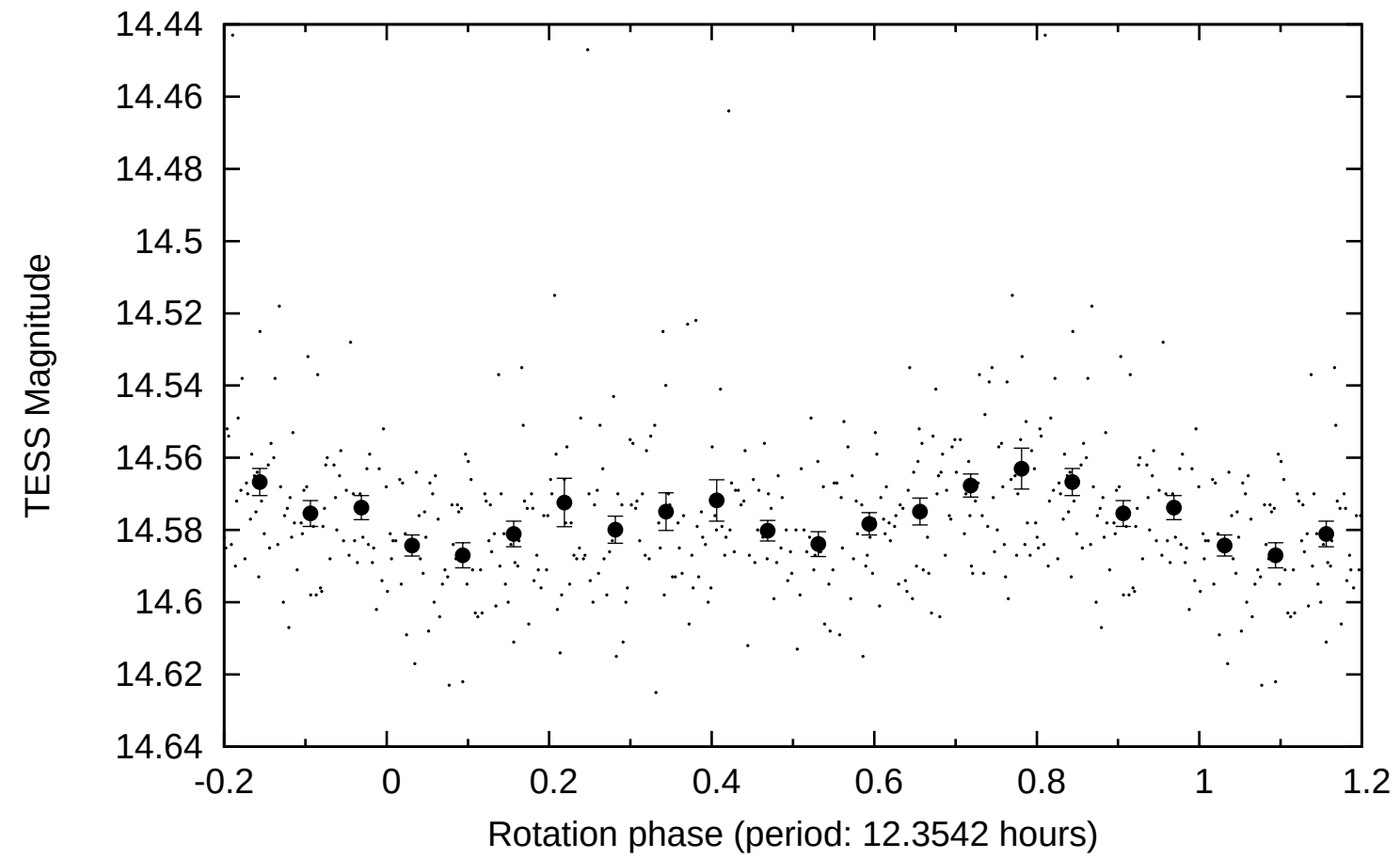

9.6
9.7
9.8
9.9
10
TESS Magnitude
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Time (JD, t-2458505)

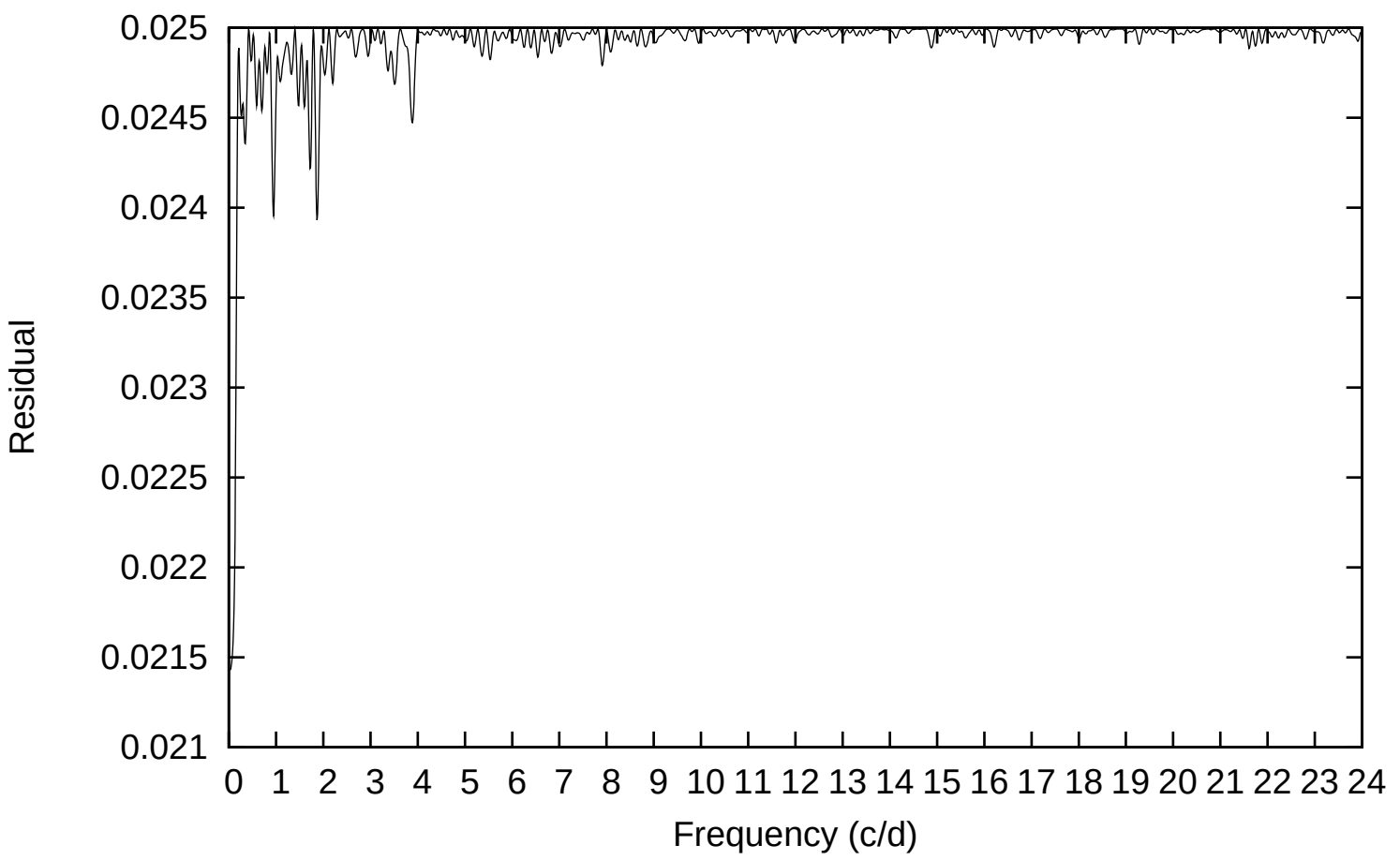

9.65
9.7
9.75
9.8
9.85
9.9
9.95
10
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 5.38546 hours)


0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

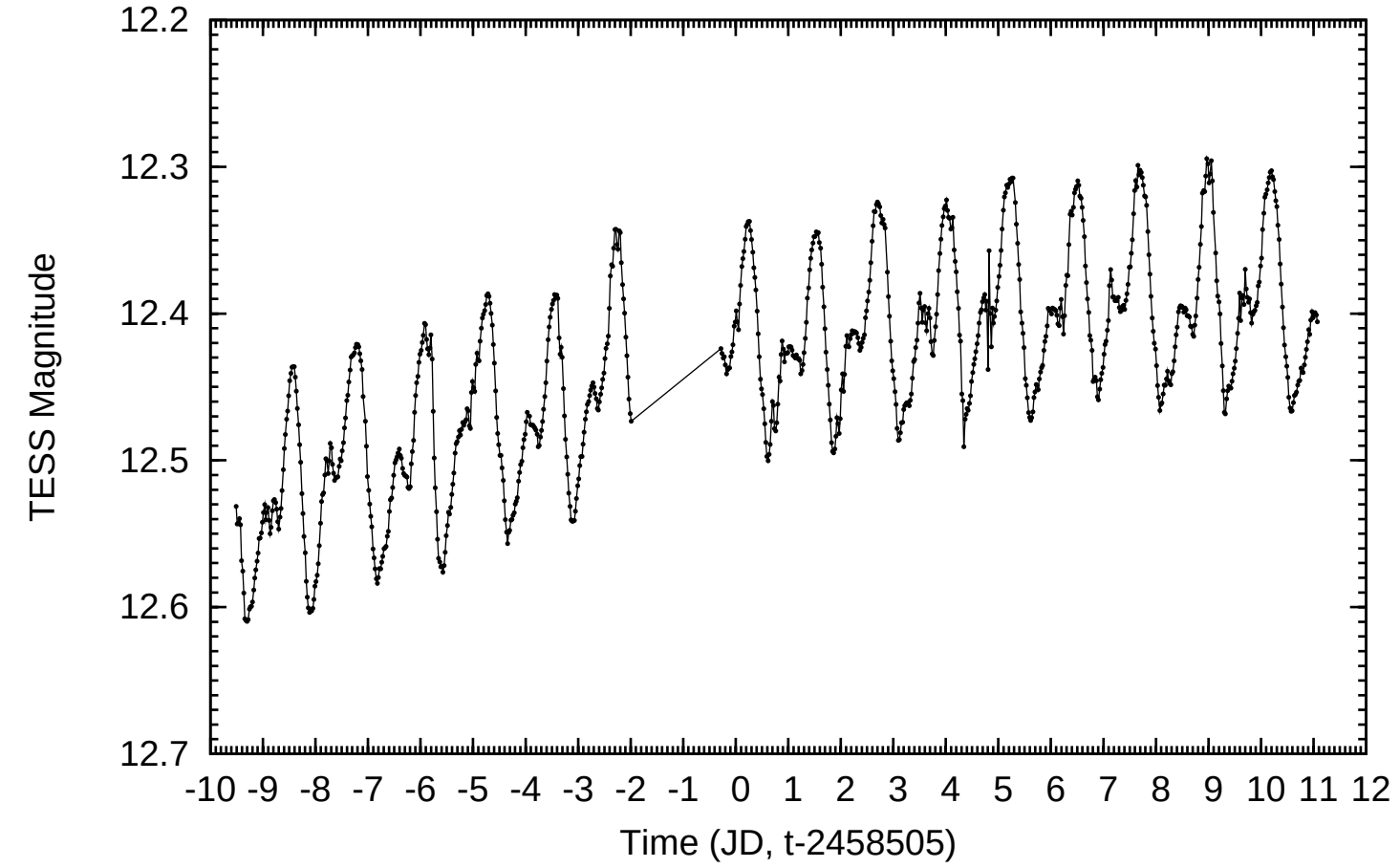
217

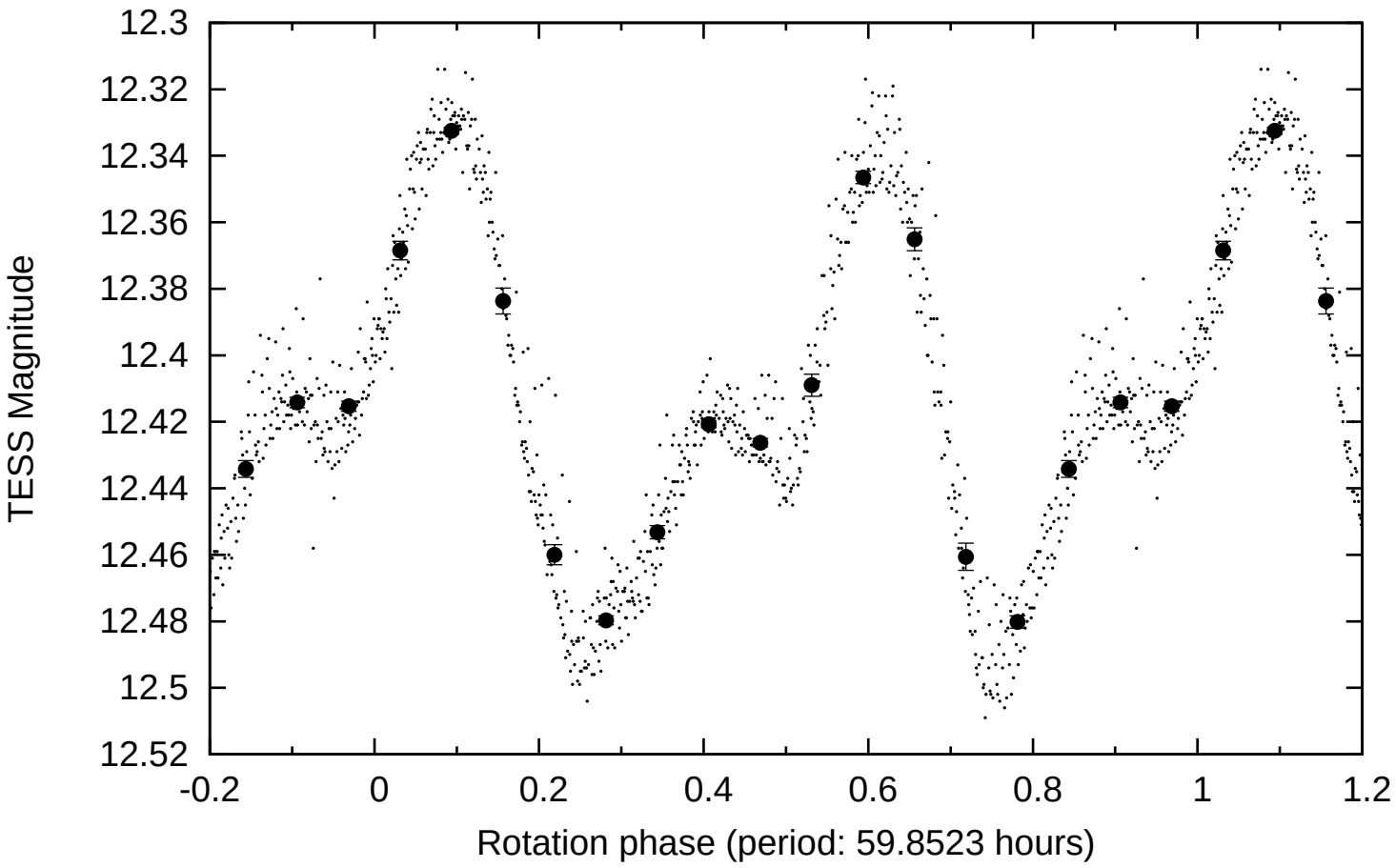

TESS Magnitude
14.4
14.5
14.6
14.7
14.8
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
Time (JD, t-2458530)

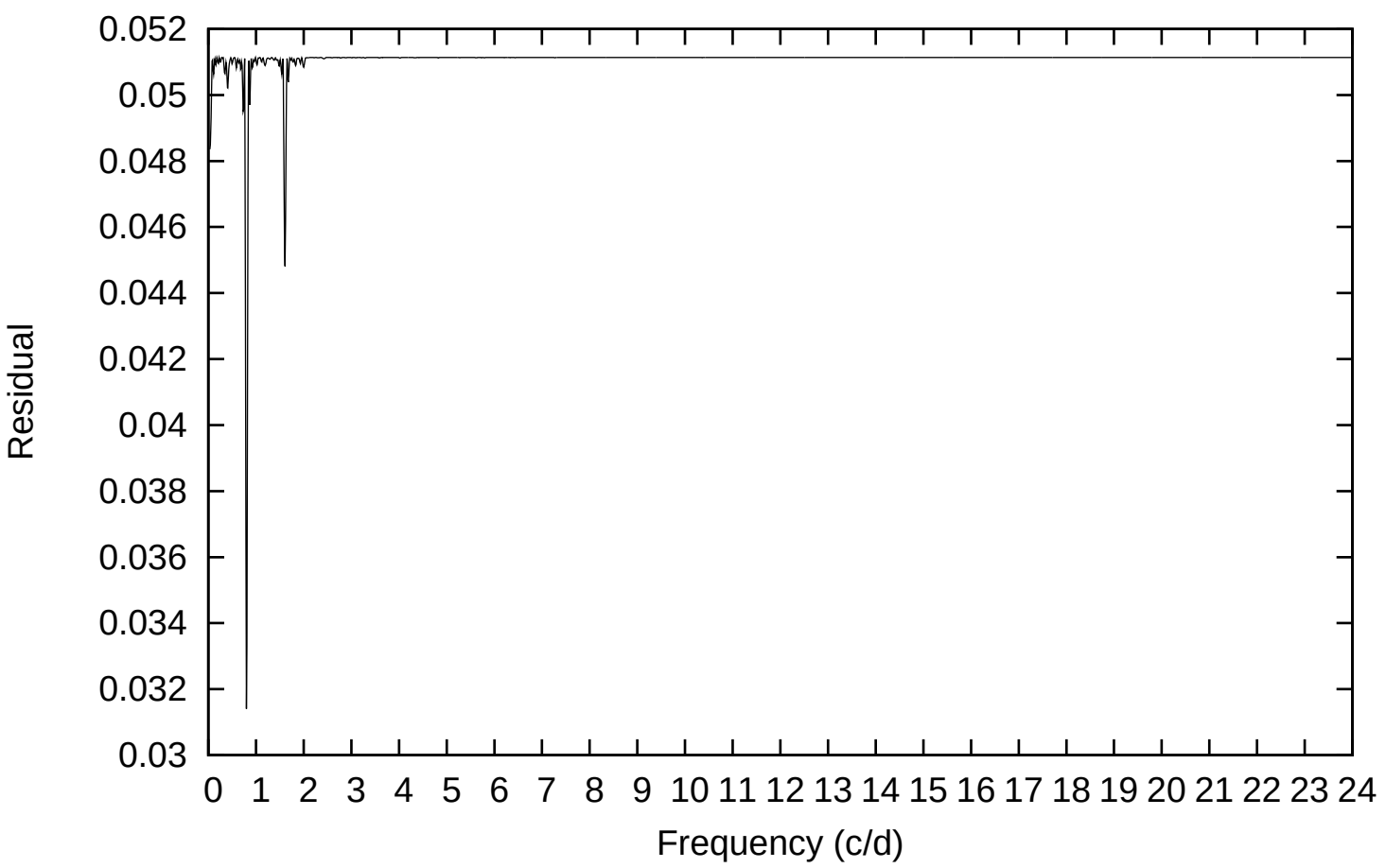

TESS Magnitude
14.44
14.46
14.48
14.5
14.52
14.54
14.56
14.58
14.6
14.62
14.64
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 12.3542 hours)


Residual
0.025
0.0245
0.024
0.0235
0.023
0.0225
0.022
0.0215
0.021
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

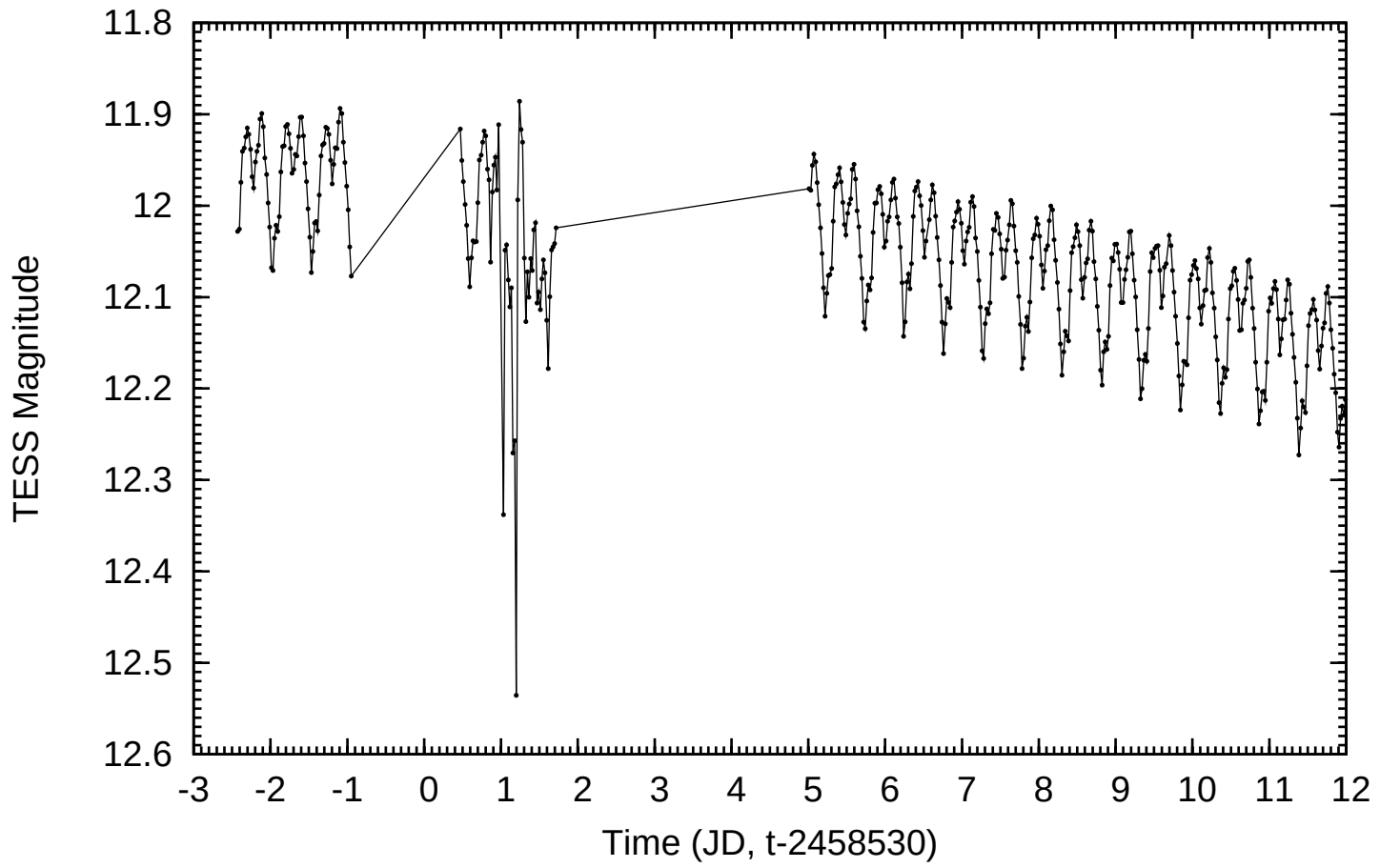
219

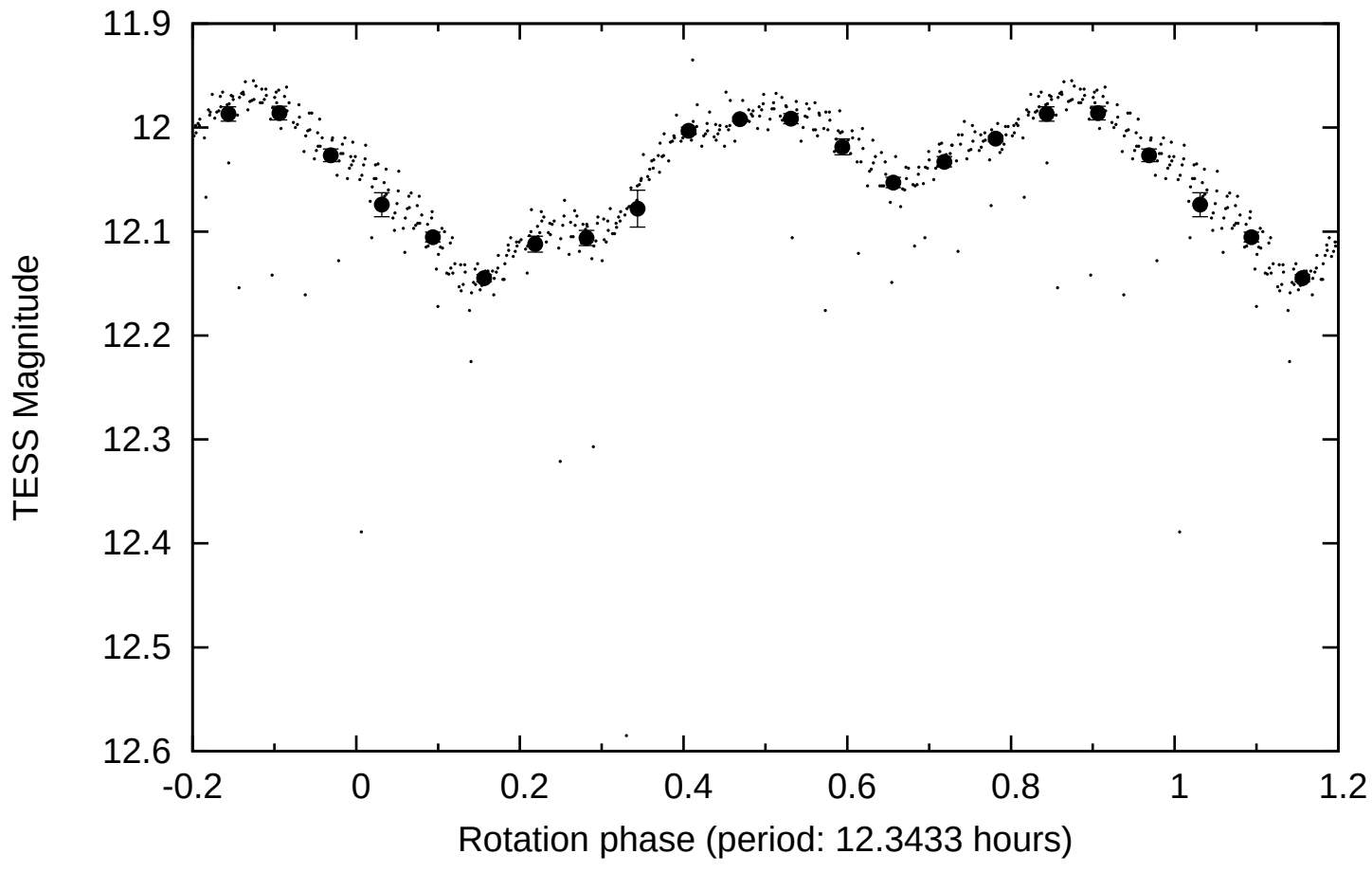

TESS Magnitude
12.2
12.3
12.4
12.5
12.6
12.7
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458505)

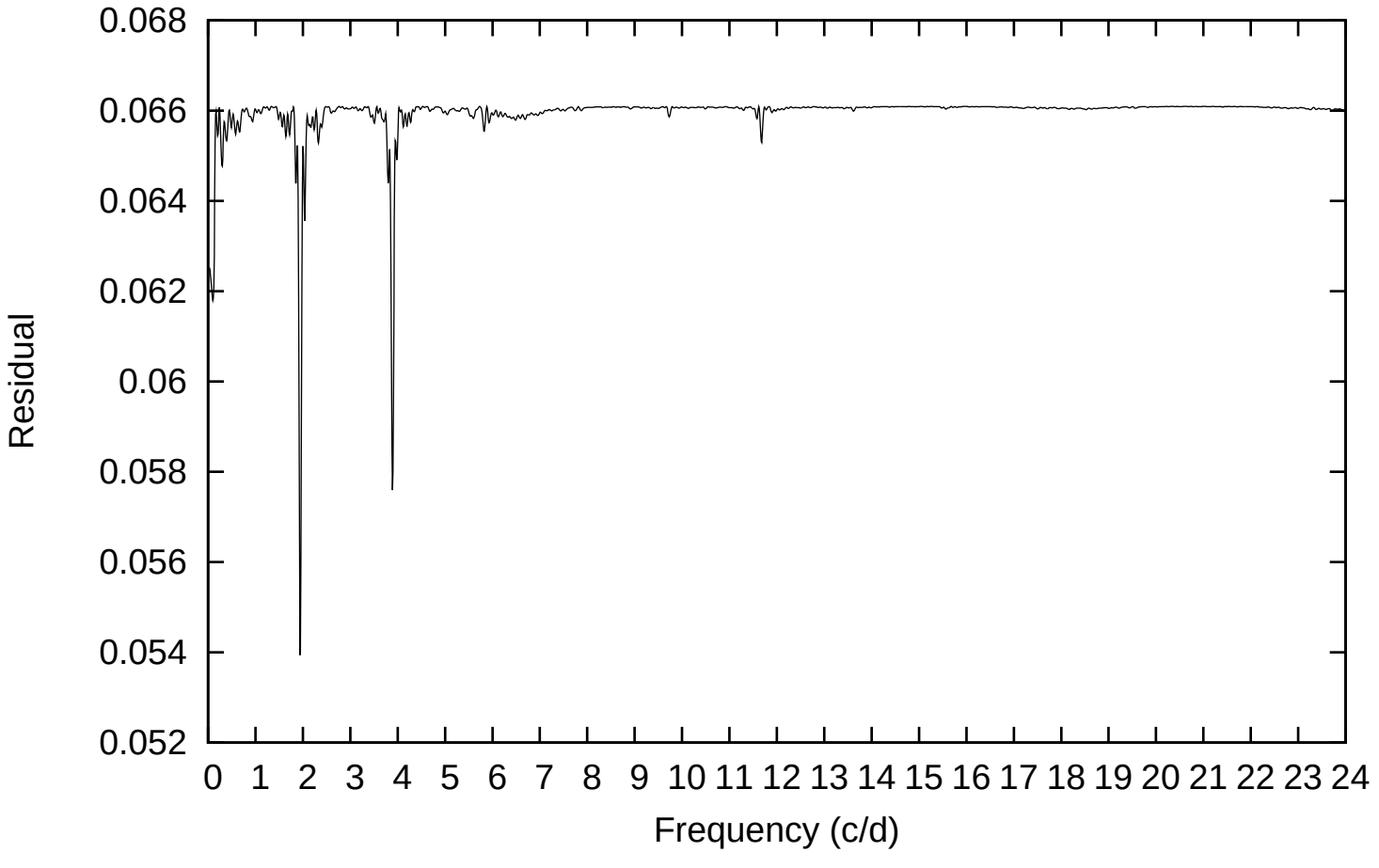

TESS Magnitude
12.3
12.32
12.34
12.36
12.38
12.4
12.42
12.44
12.46
12.48
12.5
12.52
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 59.8523 hours)


Residual
0.052
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 21 22 23 24
Frequency (c/d)

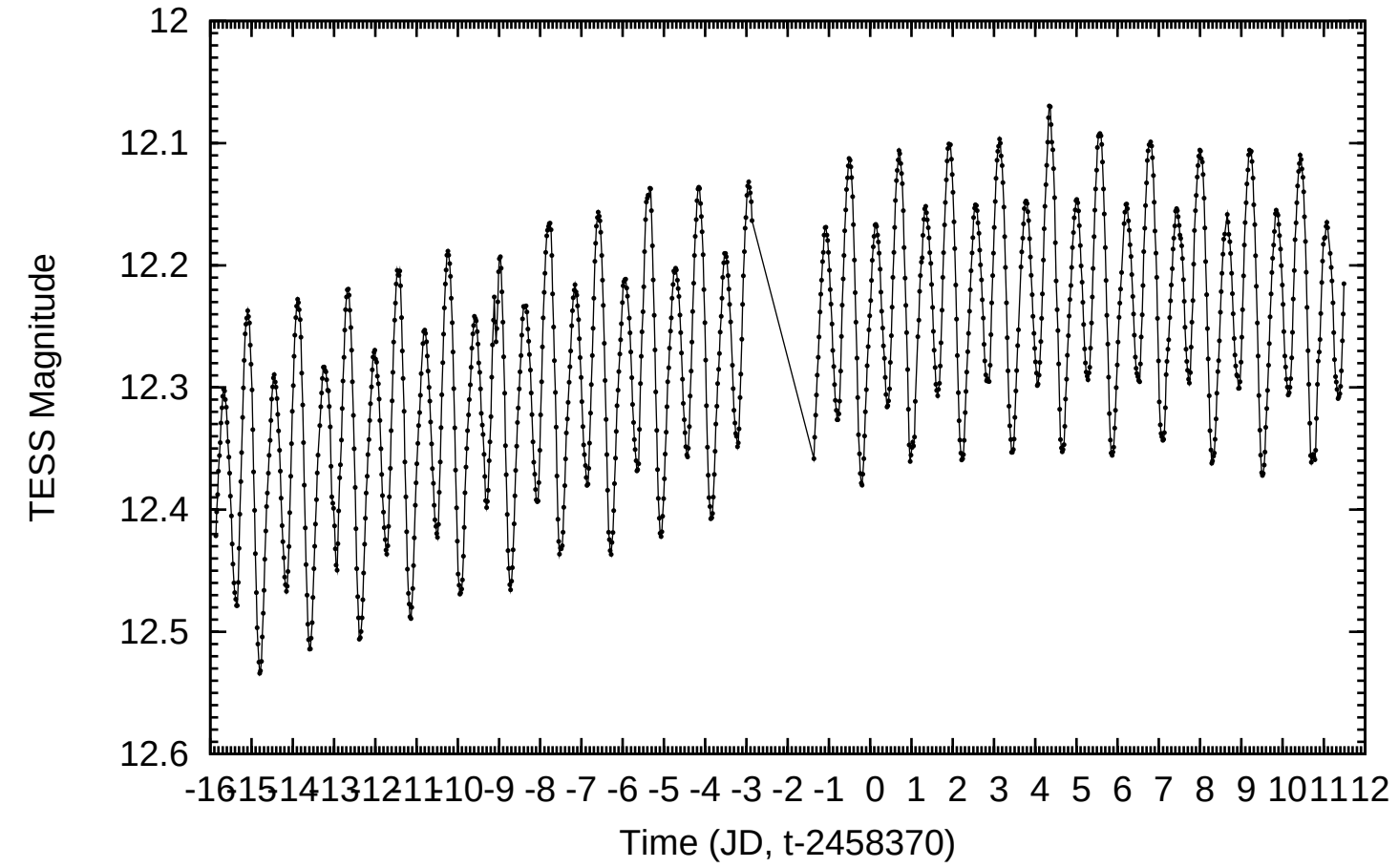
236

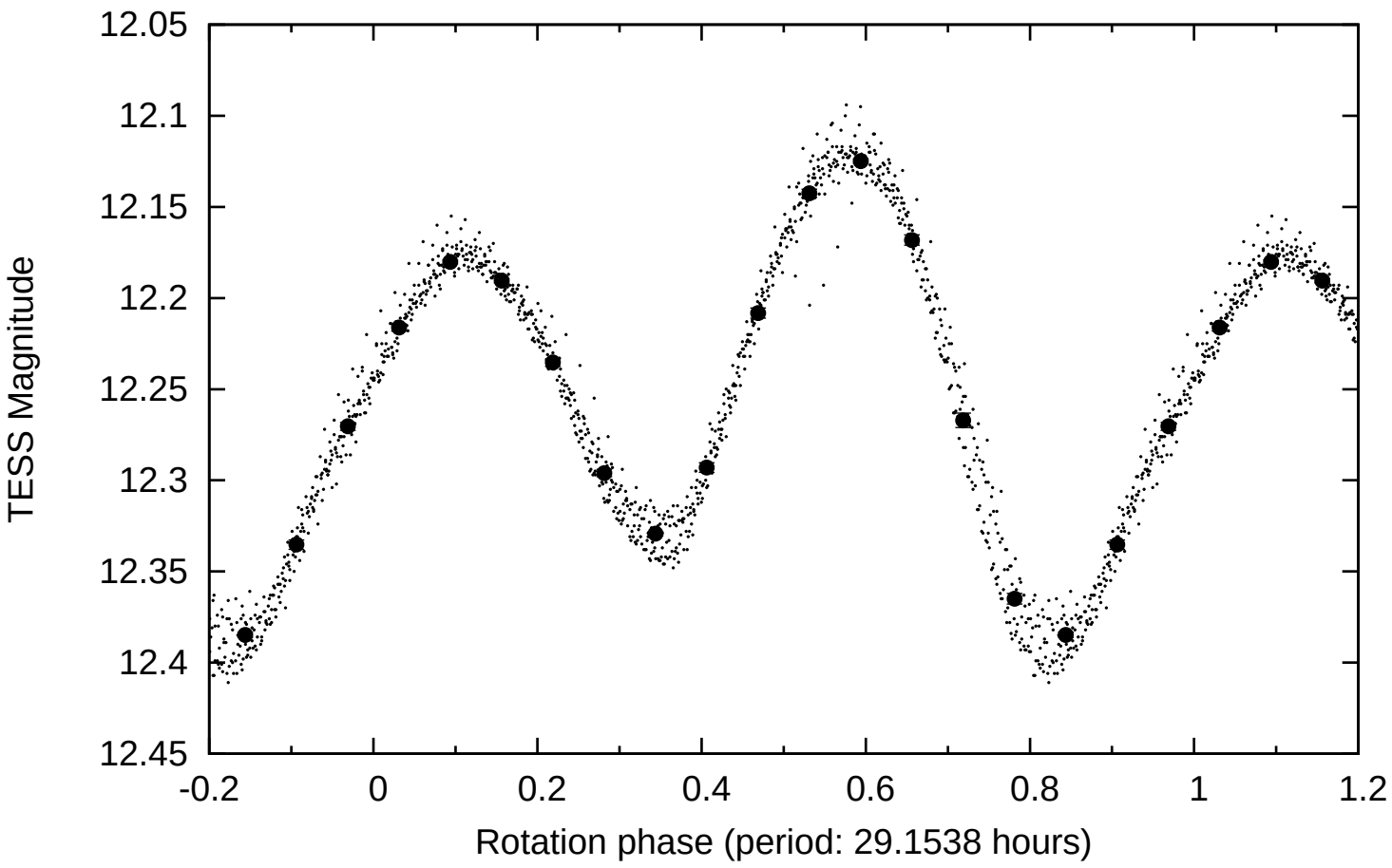

TESS Magnitude
11.8
11.9
12
12.1
12.2
12.3
12.4
12.5
12.6
-3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458530)

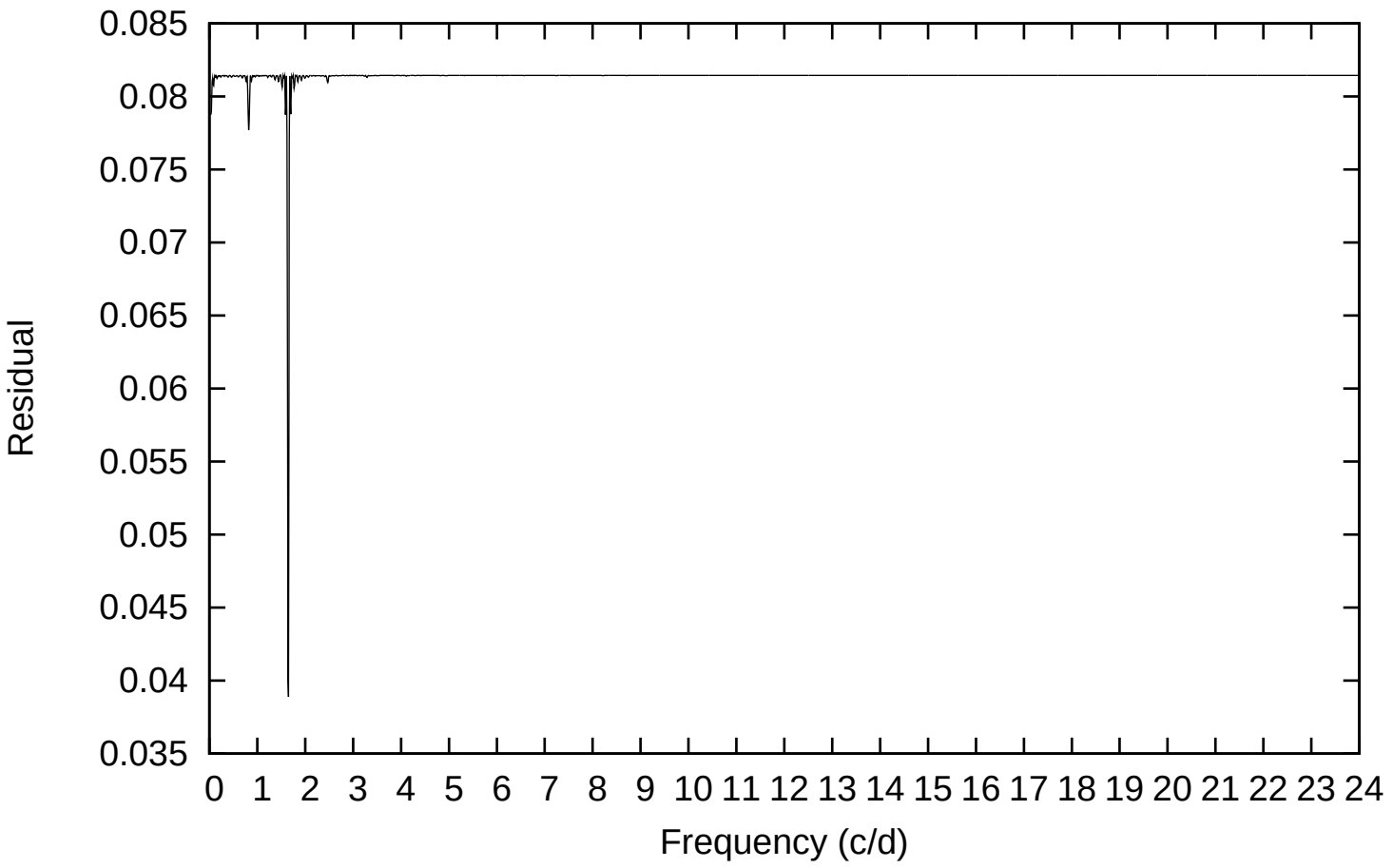

TESS Magnitude
11.9
12
12.1
12.2
12.3
12.4
12.5
12.6
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 12.3433 hours)


Residual
0.068
0.066
0.064
0.062
0.06
0.058
0.056
0.054
0.052
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

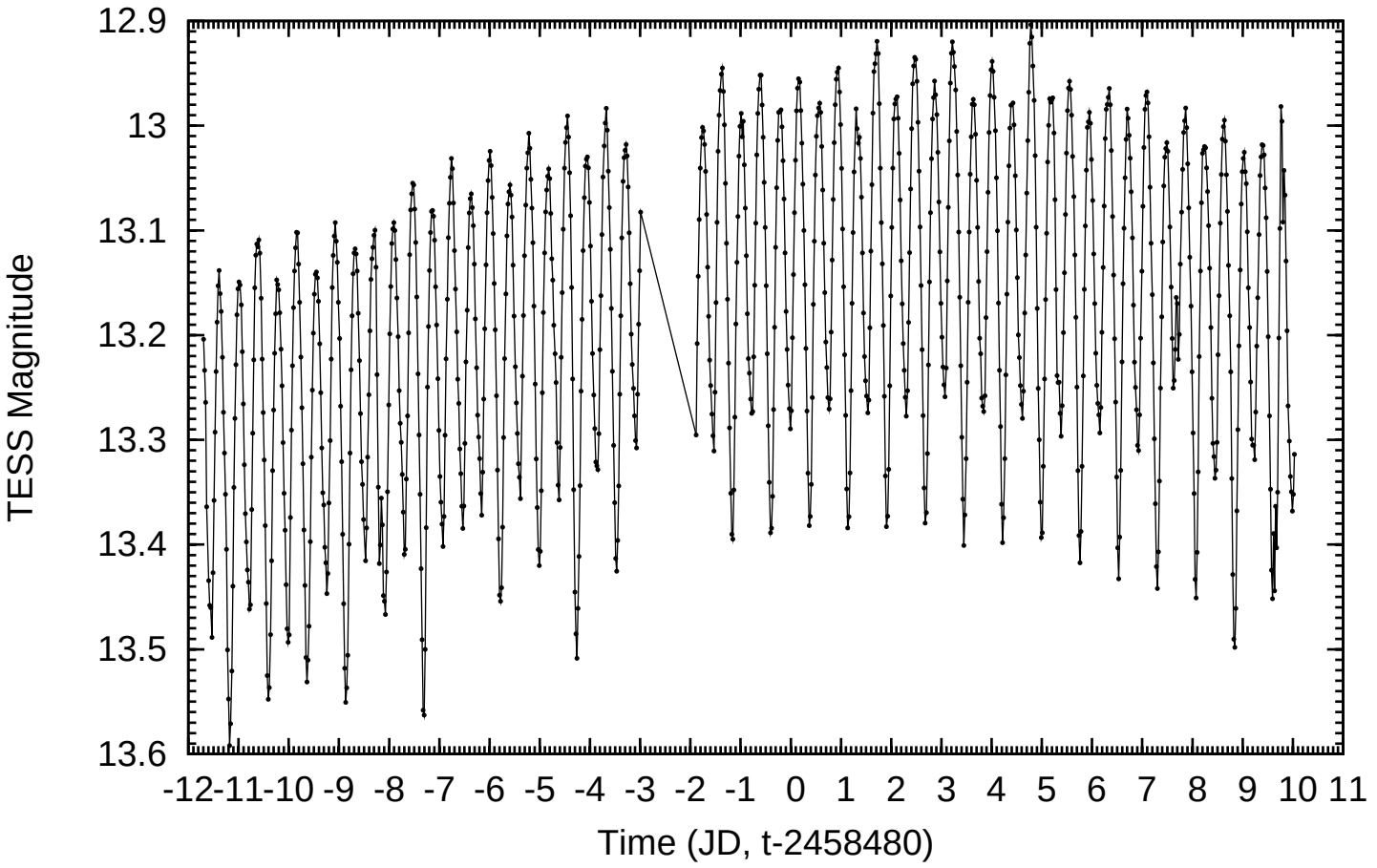
237

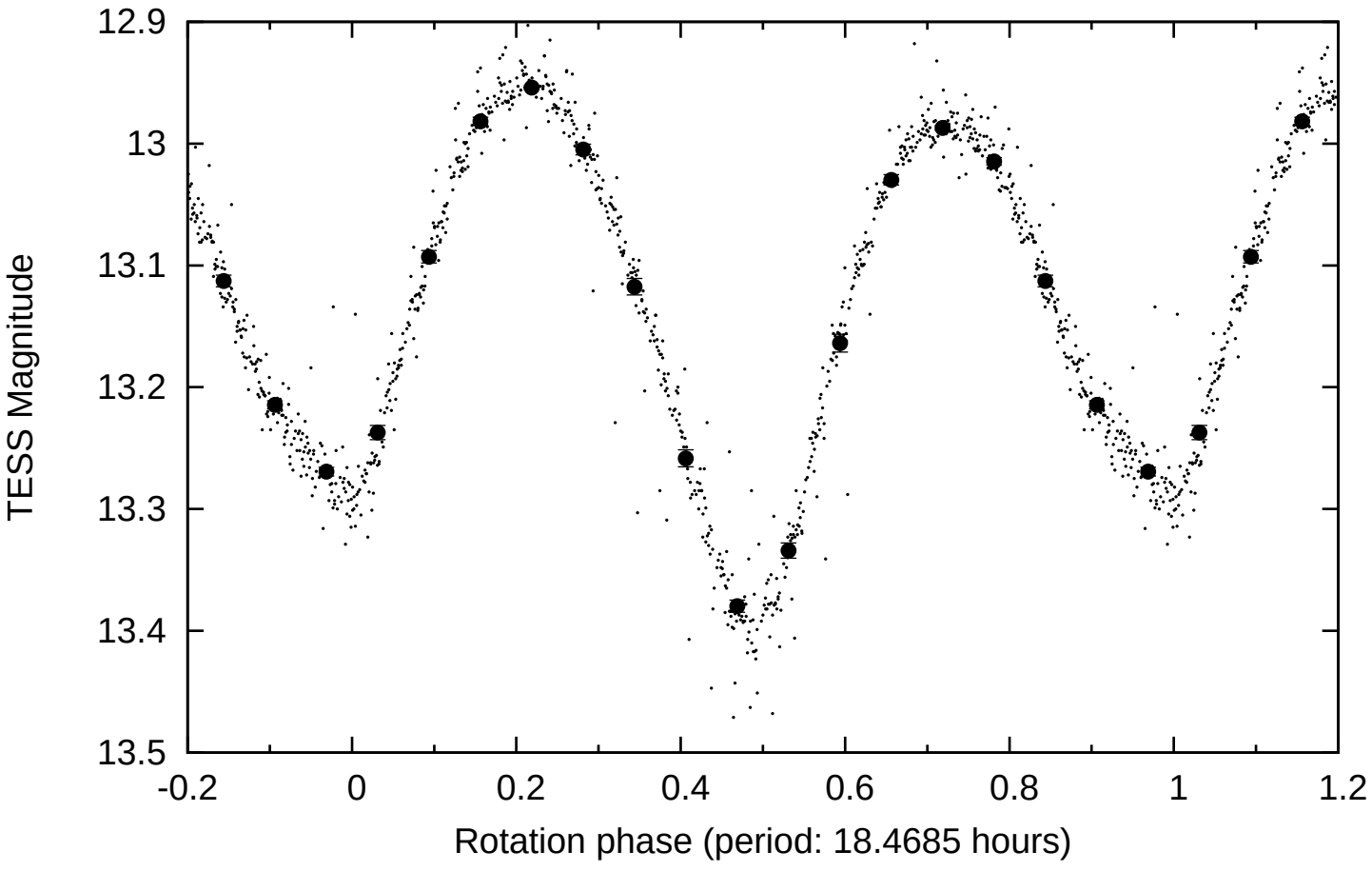

TESS Magnitude
12
12.1
12.2
12.3
12.4
12.5
12.6
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458370)

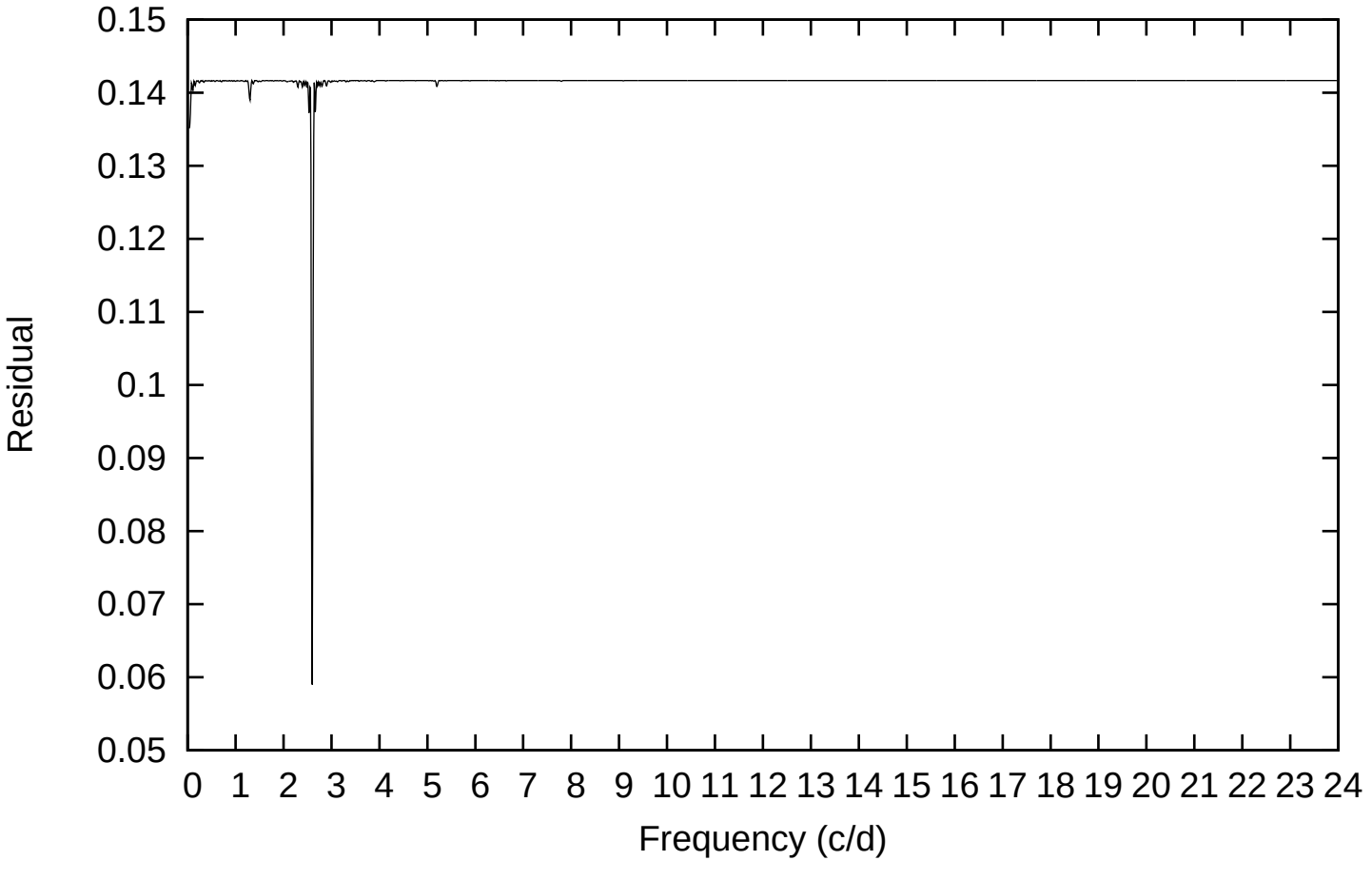

TESS Magnitude
12.05
12.1
12.15
12.2
12.25
12.3
12.35
12.4
12.45
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 29.1538 hours)


Residual
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

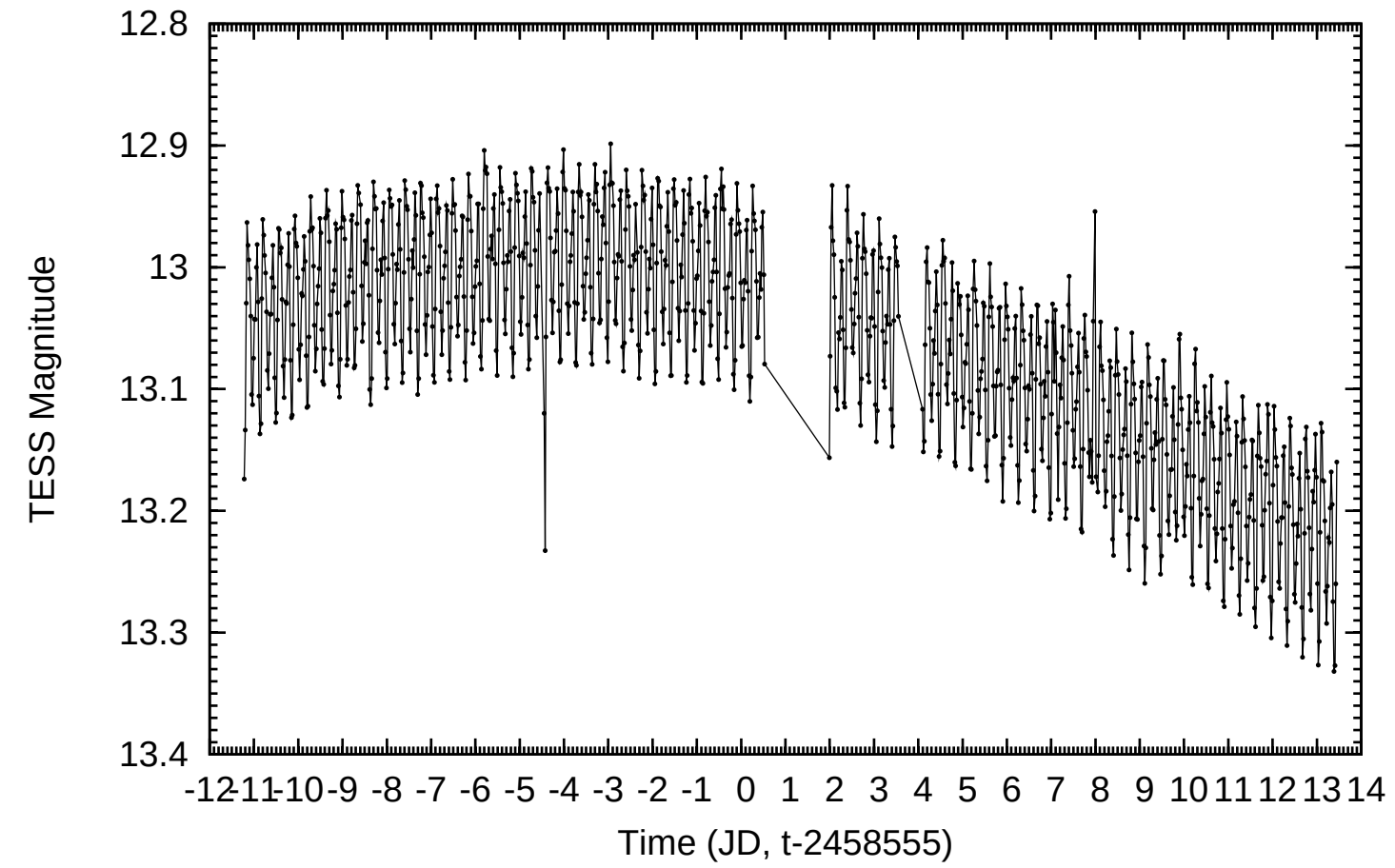
239

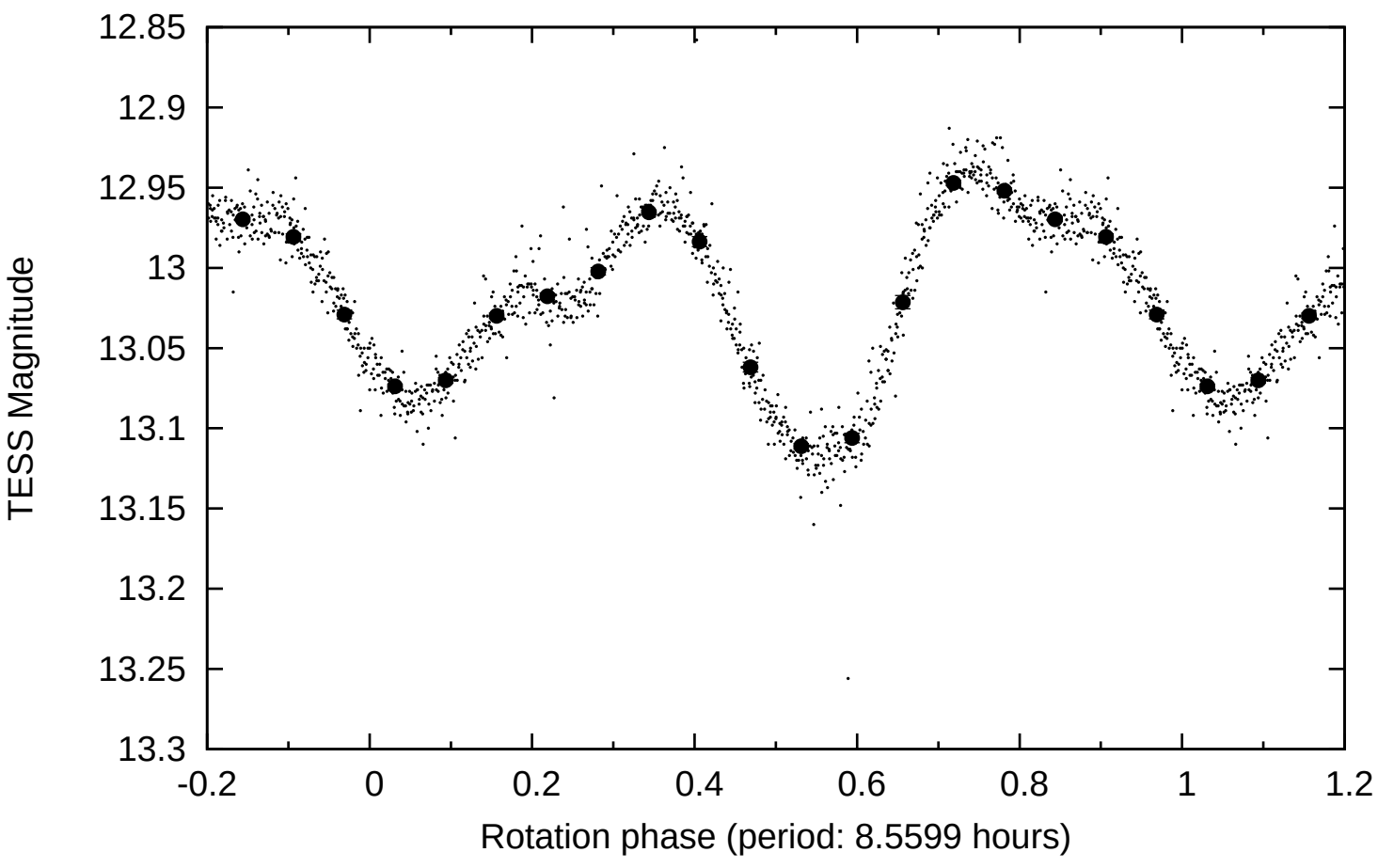

TESS Magnitude
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458480)

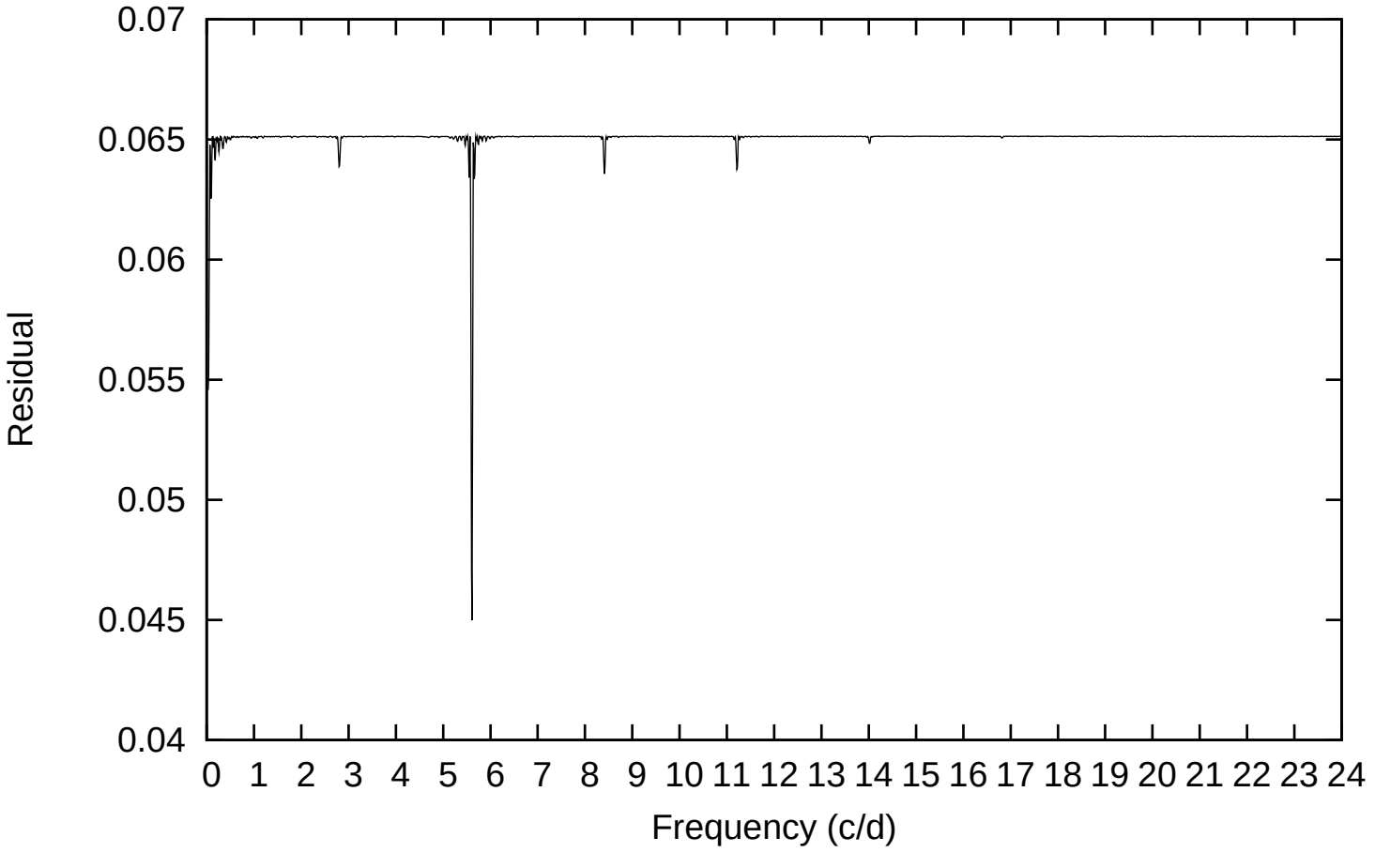

TESS Magnitude
12.9
13
13.1
13.2
13.3
13.4
13.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 18.4685 hours)


Residual
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

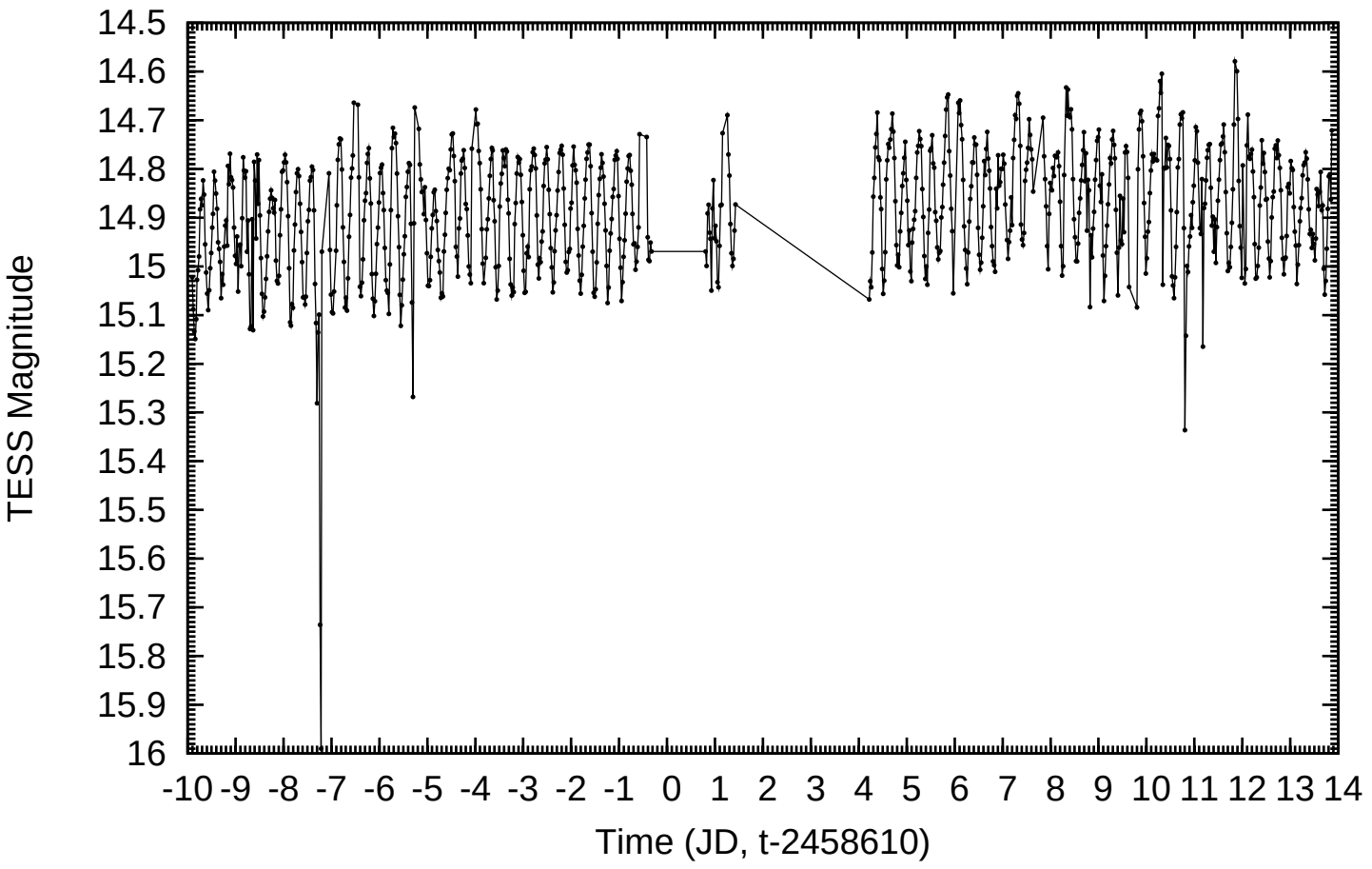
284

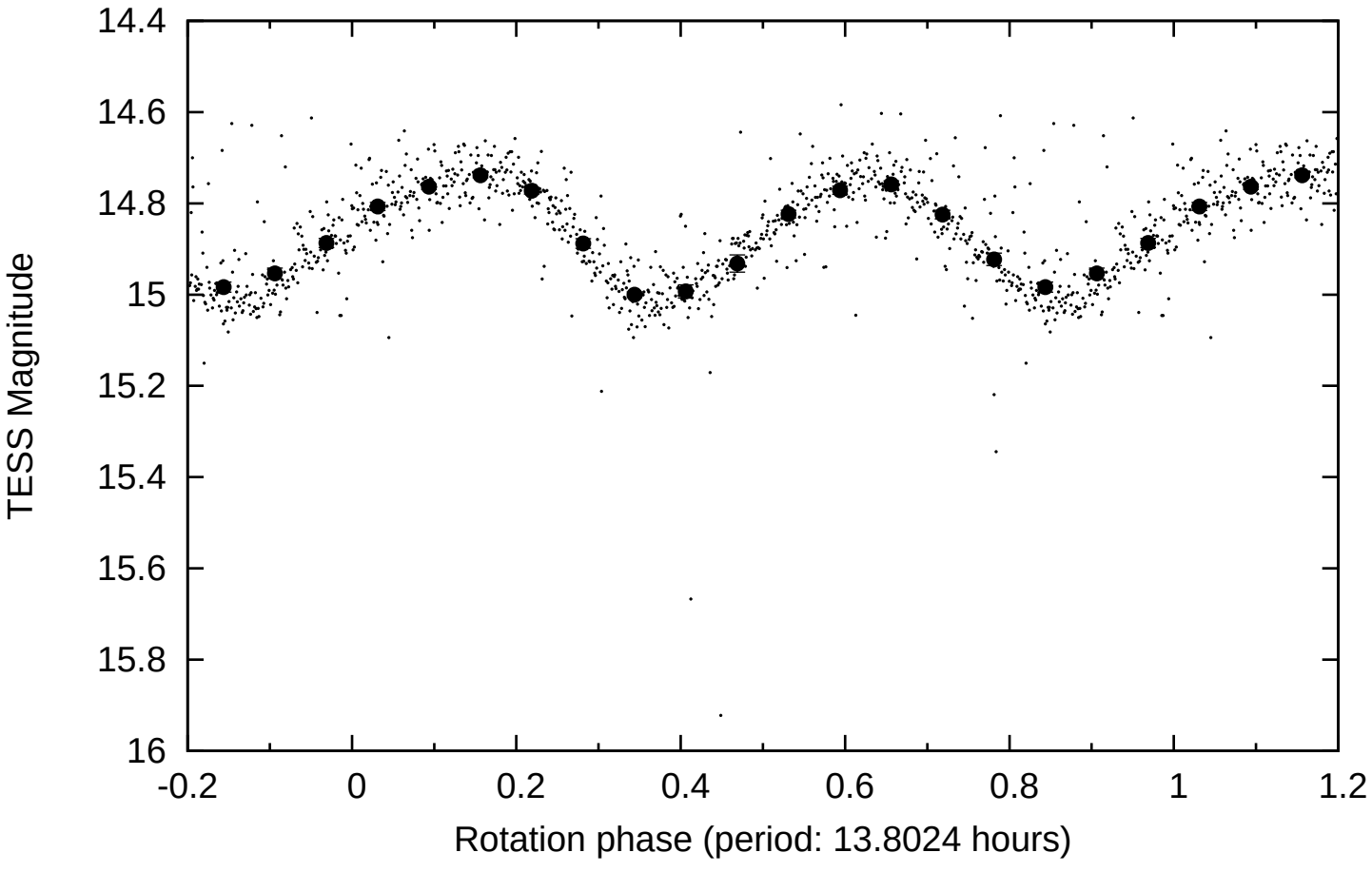

TESS Magnitude
12.8
12.9
13
13.1
13.2
13.3
13.4
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

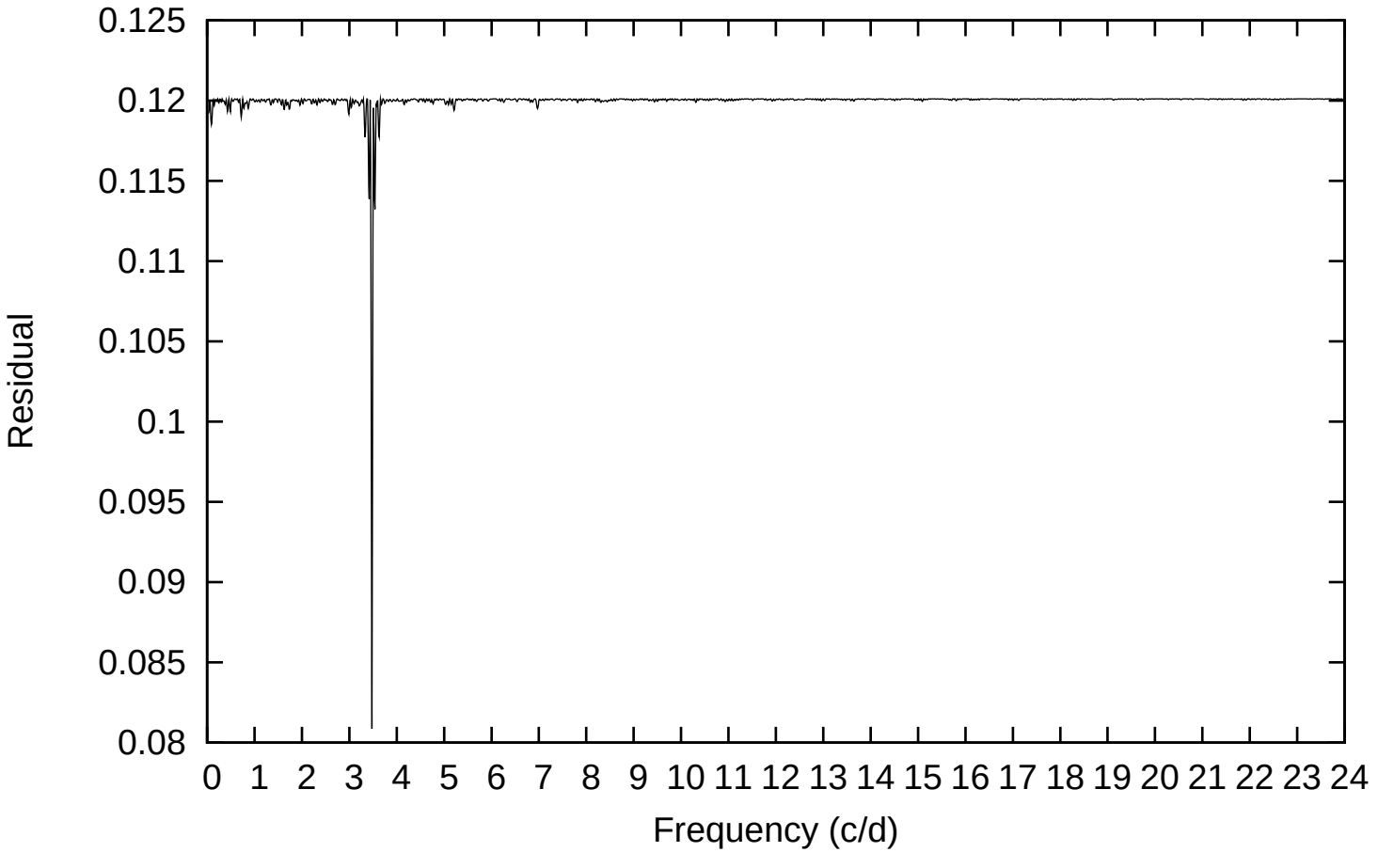

TESS Magnitude
12.85
12.9
12.95
13
13.05
13.1
13.15
13.2
13.25
13.3
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.5599 hours)


Residual
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 21 22 23 24
Frequency (c/d)

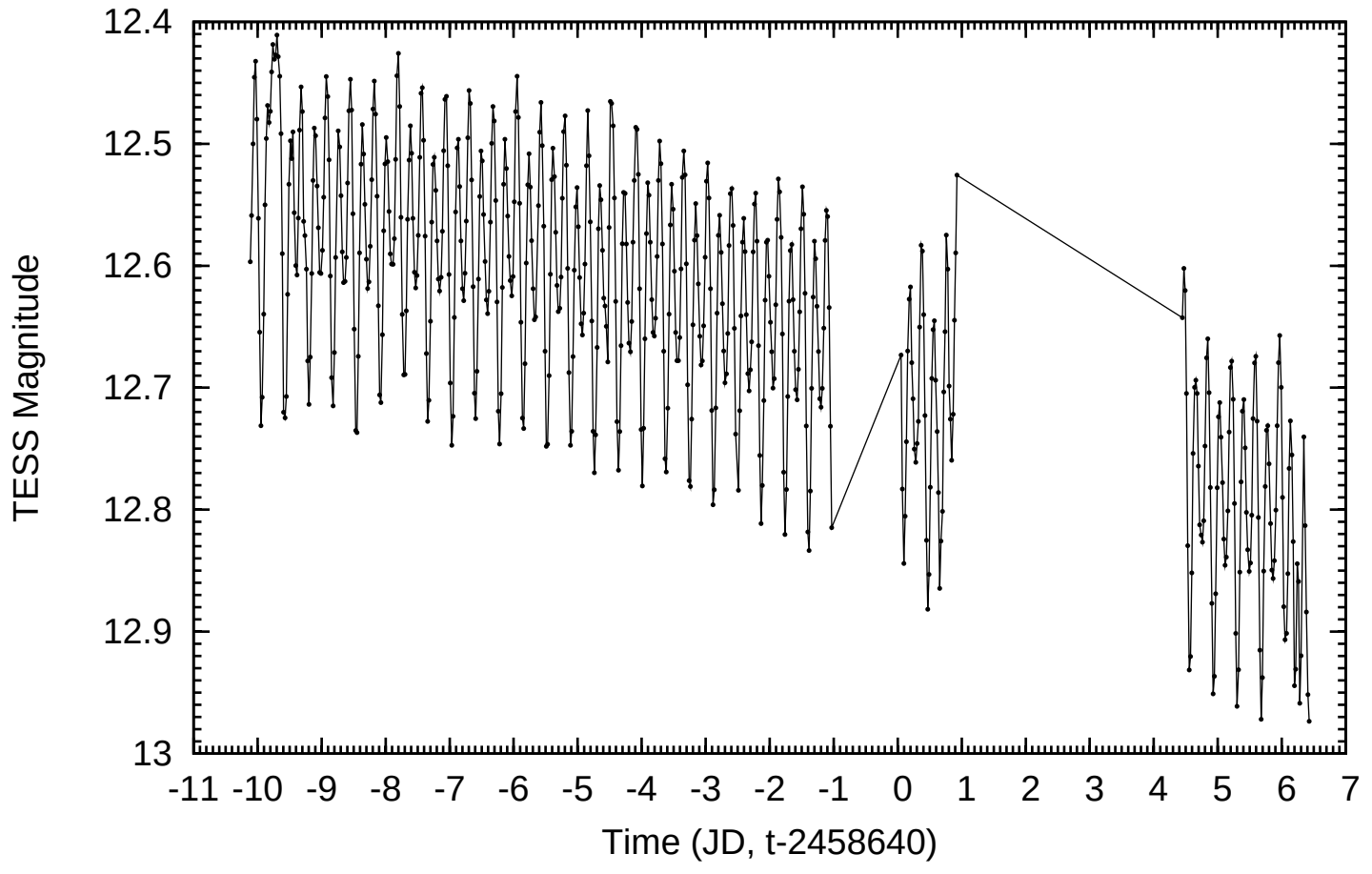
290

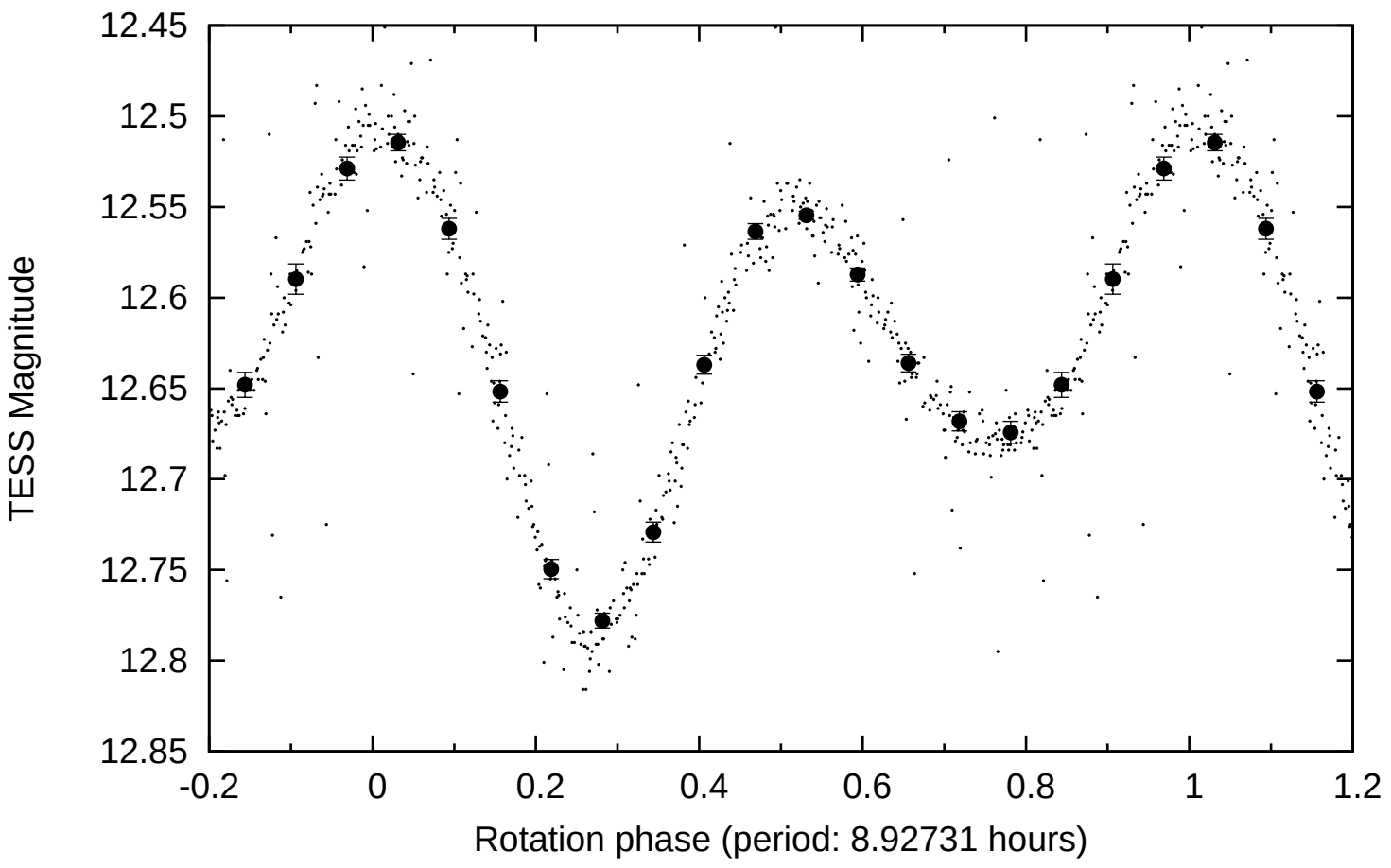

TESS Magnitude
14.5
14.6
14.7
14.8
14.9
15
15.1
15.2
15.3
15.4
15.5
15.6
15.7
15.8
15.9
16
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458610)

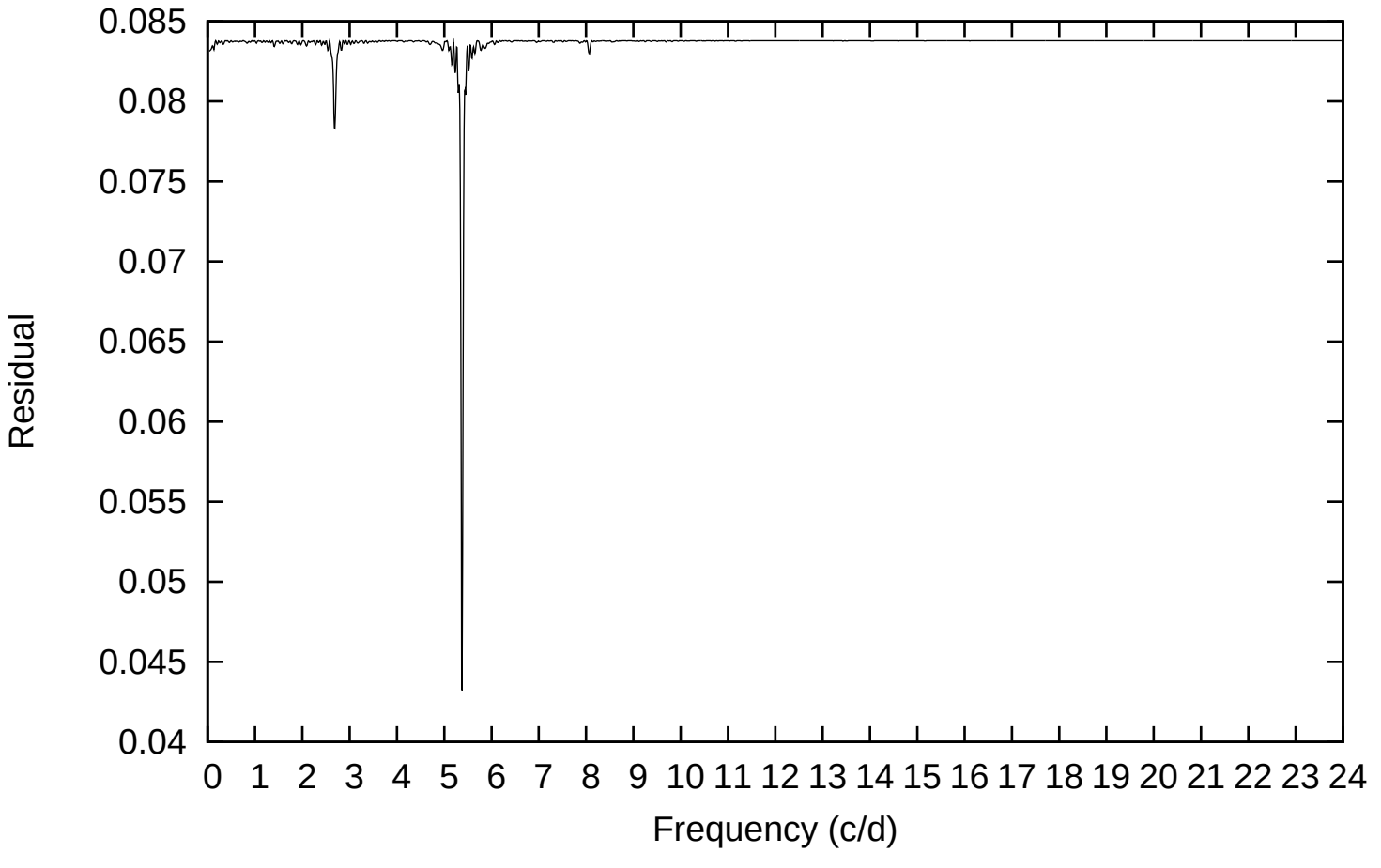

TESS Magnitude
14.4
14.6
14.8
15
15.2
15.4
15.6
15.8
16
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 13.8024 hours)


Residual
0.125
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

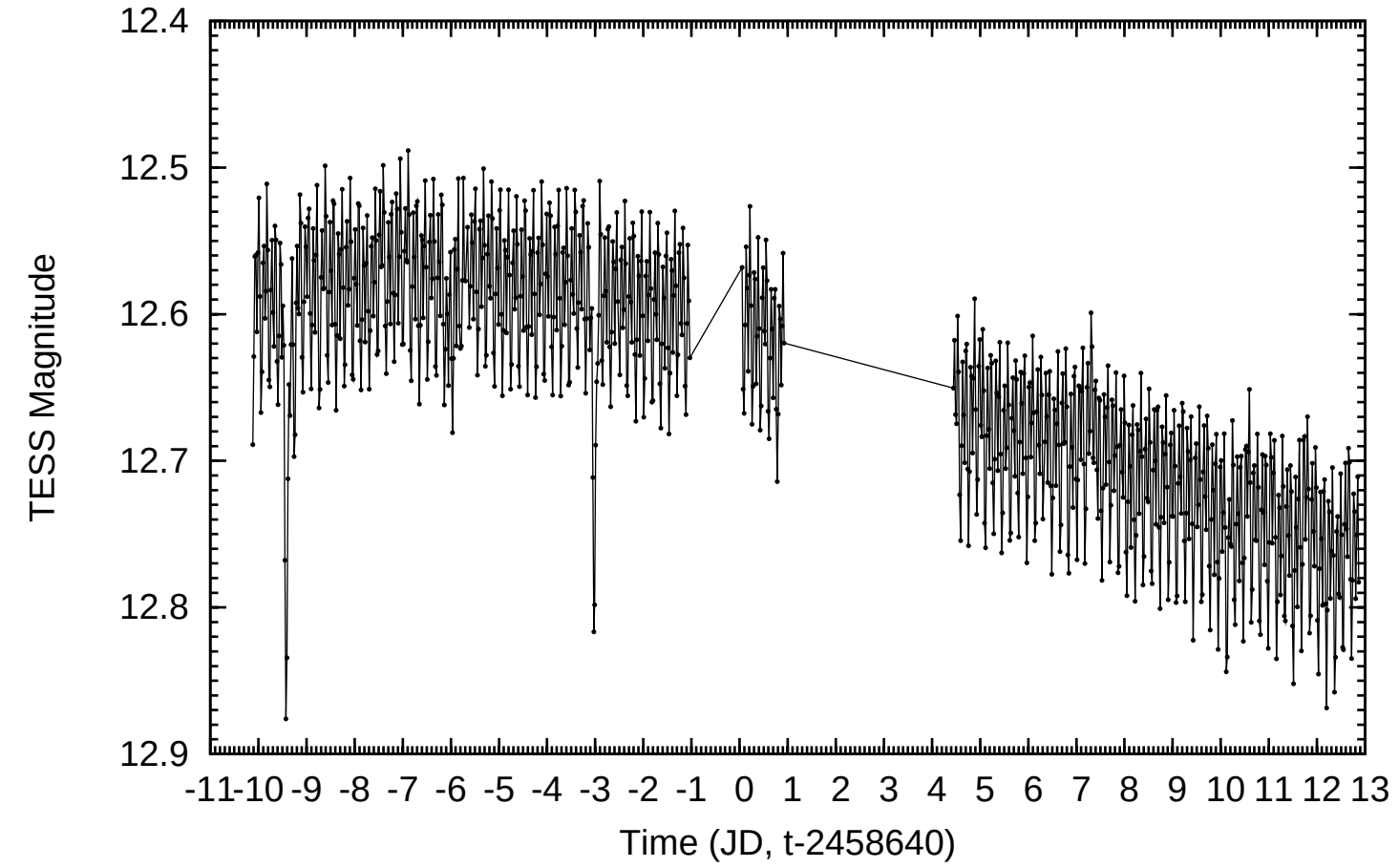
292

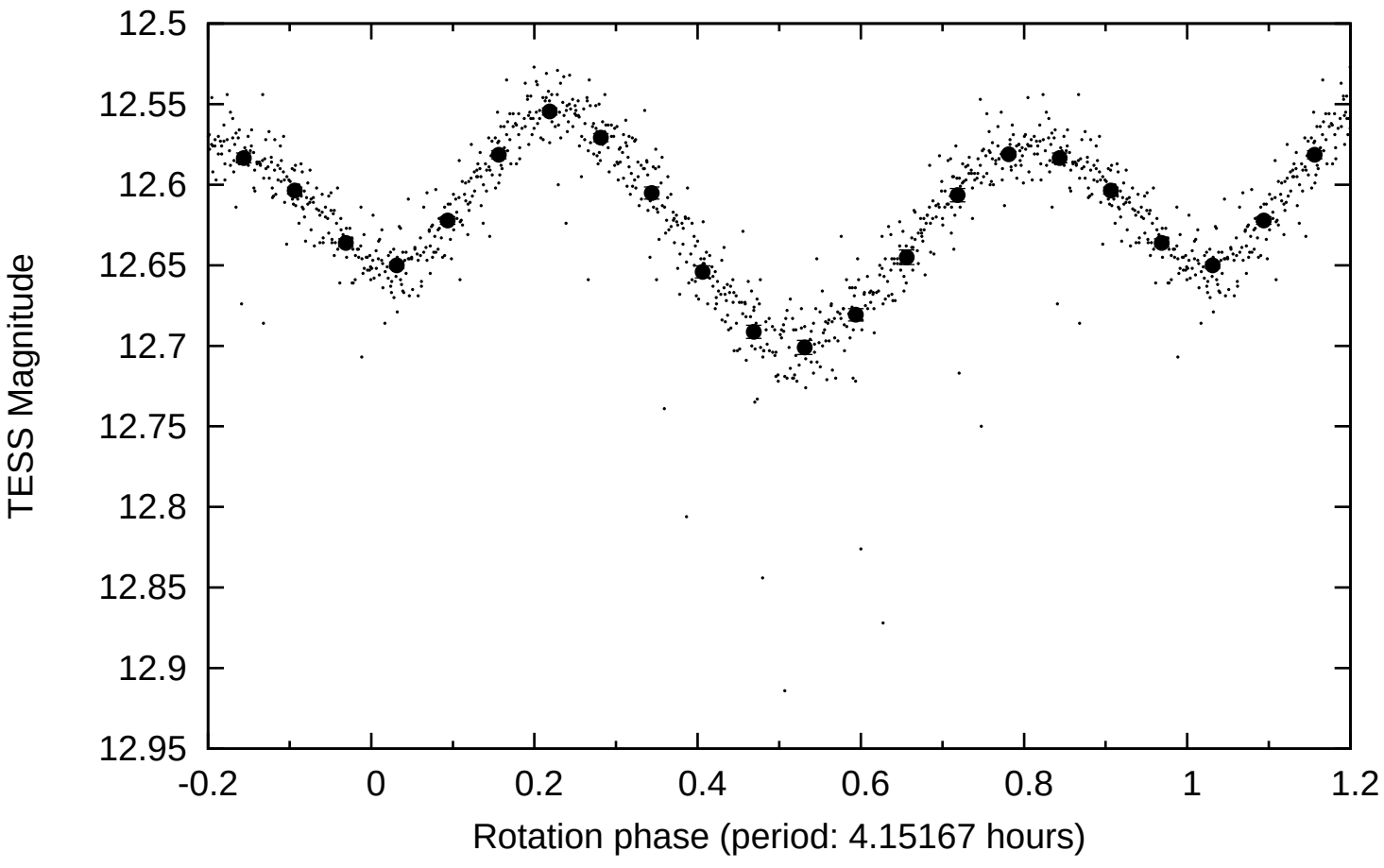

TESS Magnitude
12.4
12.5
12.6
12.7
12.8
12.9
13
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7
Time (JD, t-2458640)

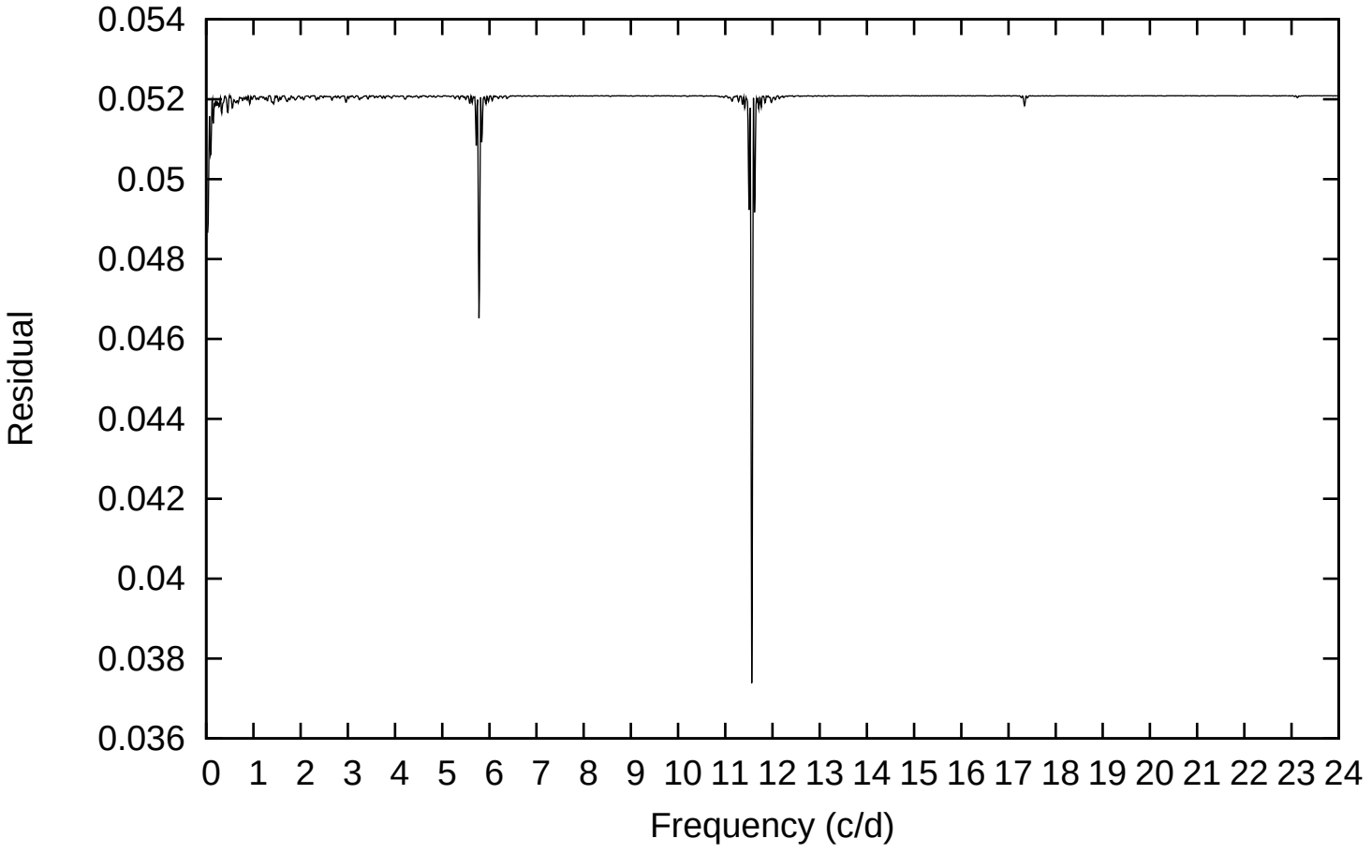

TESS Magnitude
12.45
12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.92731 hours)


Residual
0.085
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 21 22 23 24
Frequency (c/d)

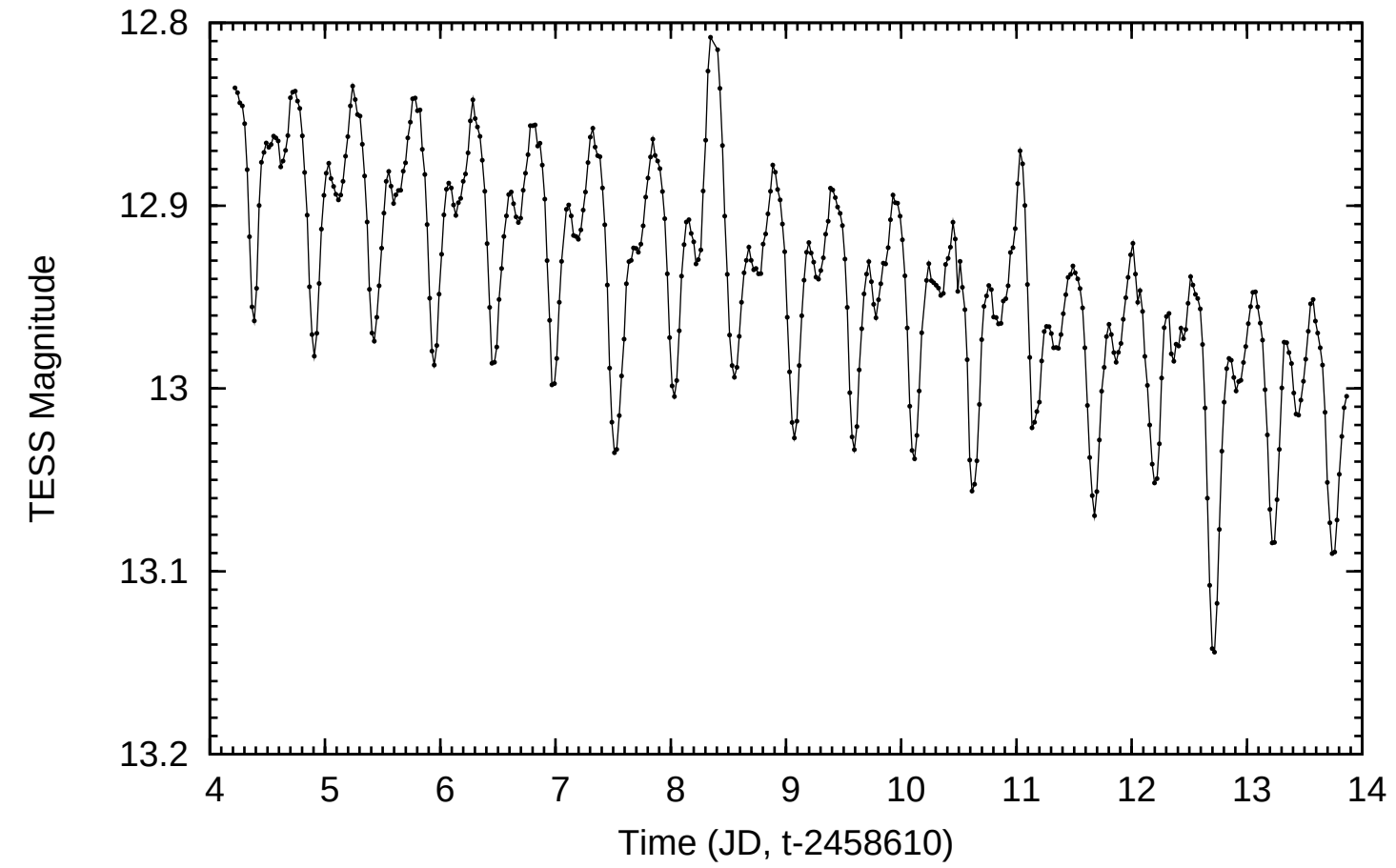
297

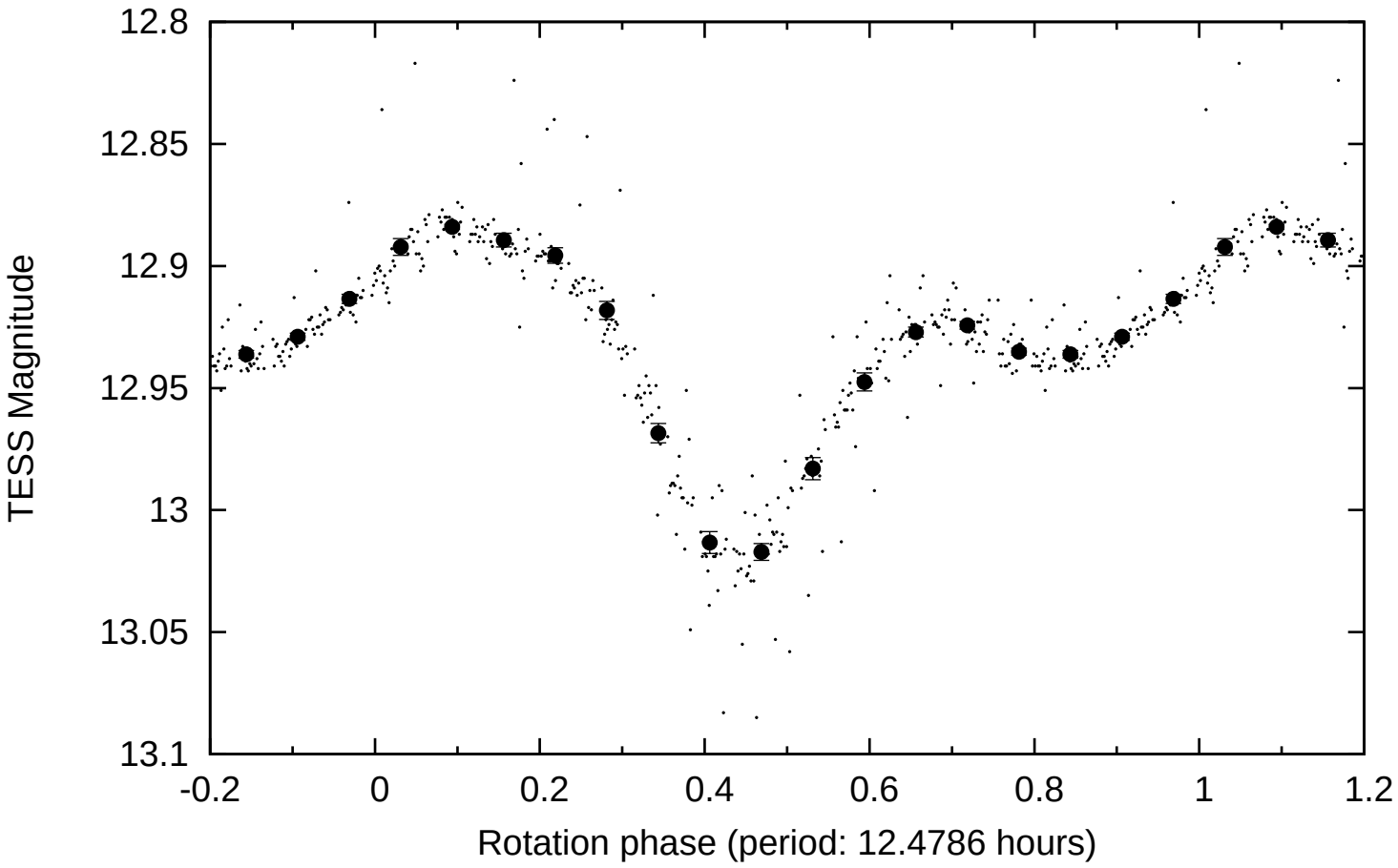

12.4
12.5
12.6
12.7
12.8
12.9
TESS Magnitude
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

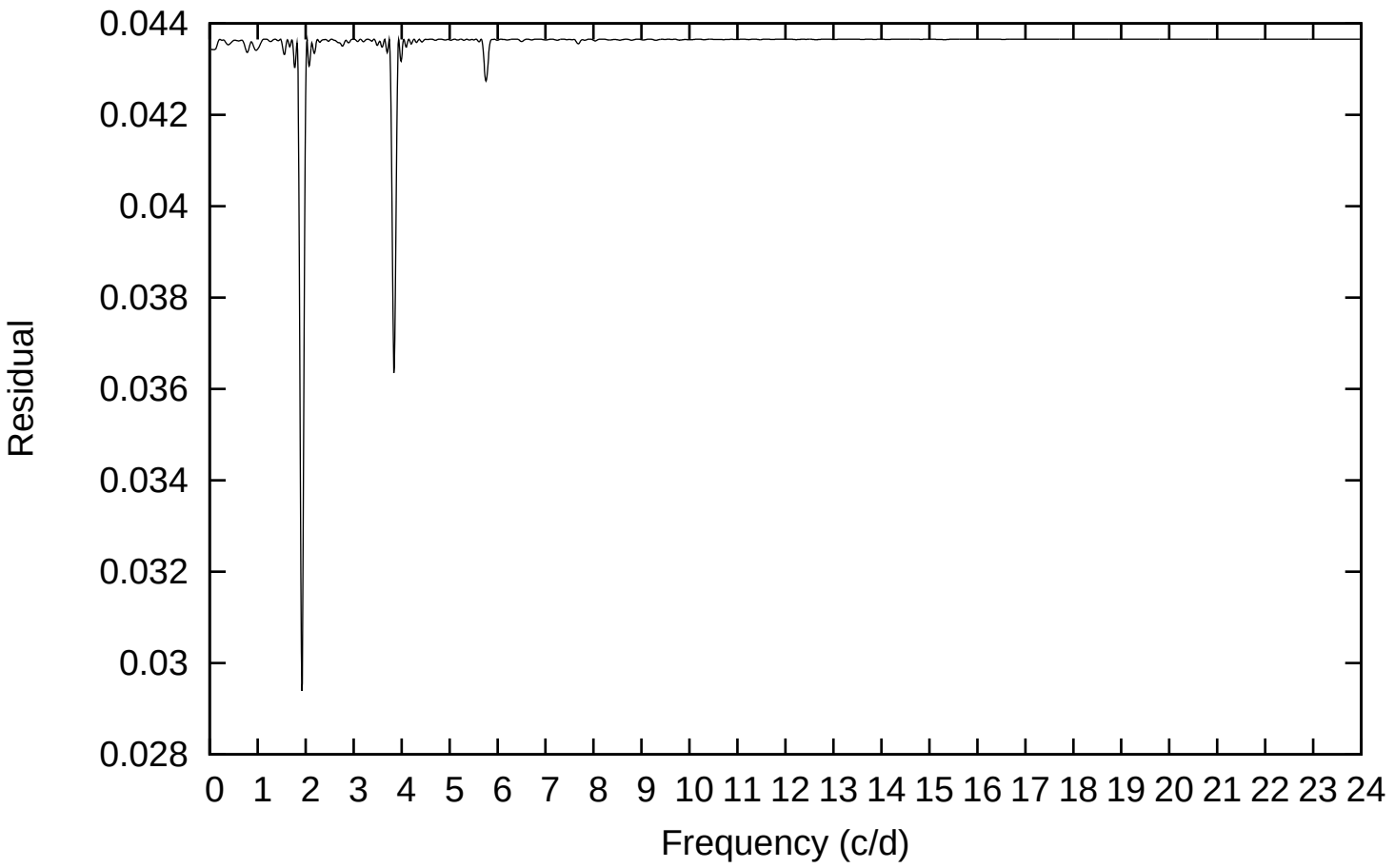

12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
12.9
12.95
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 4.15167 hours)


0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

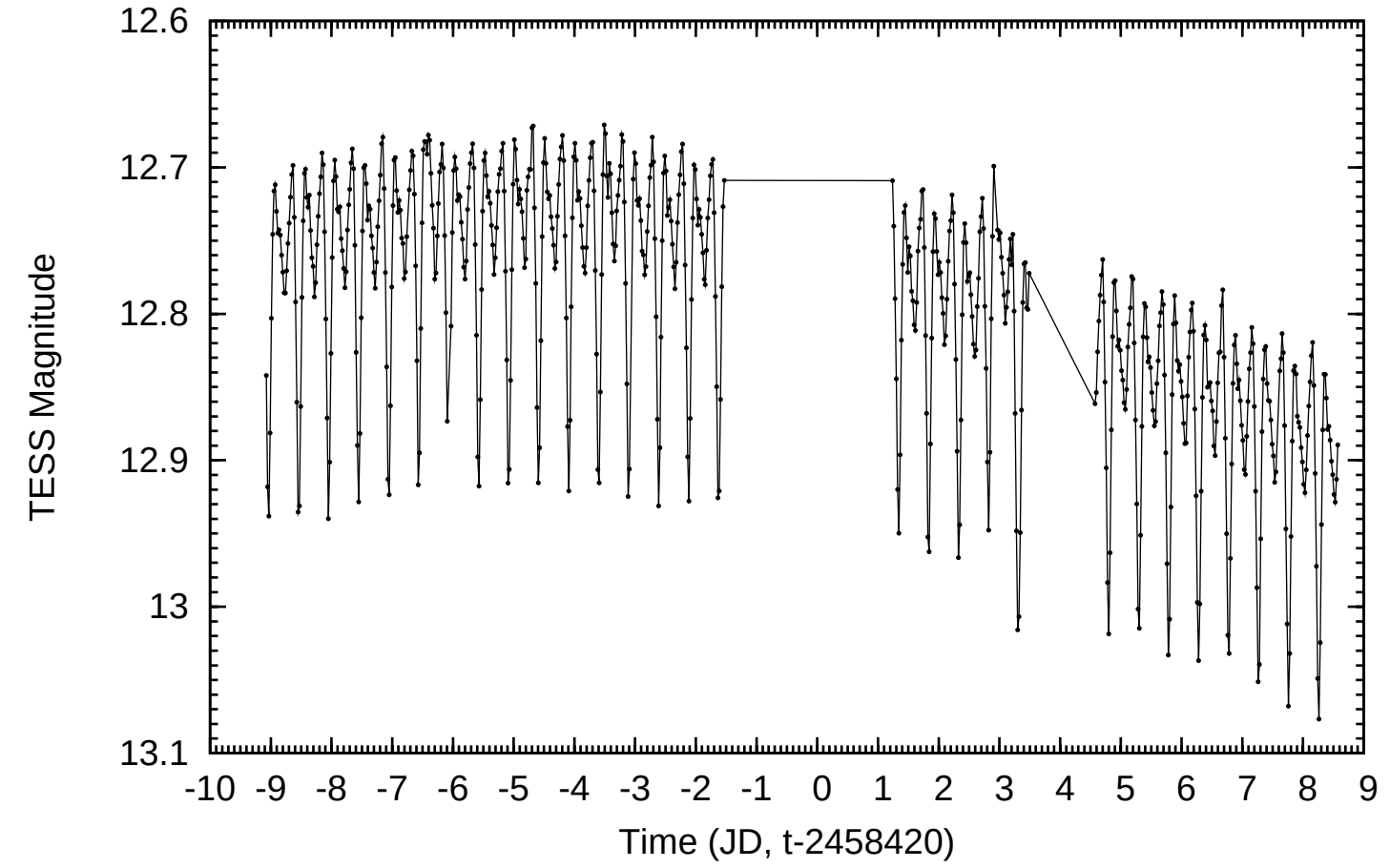
303

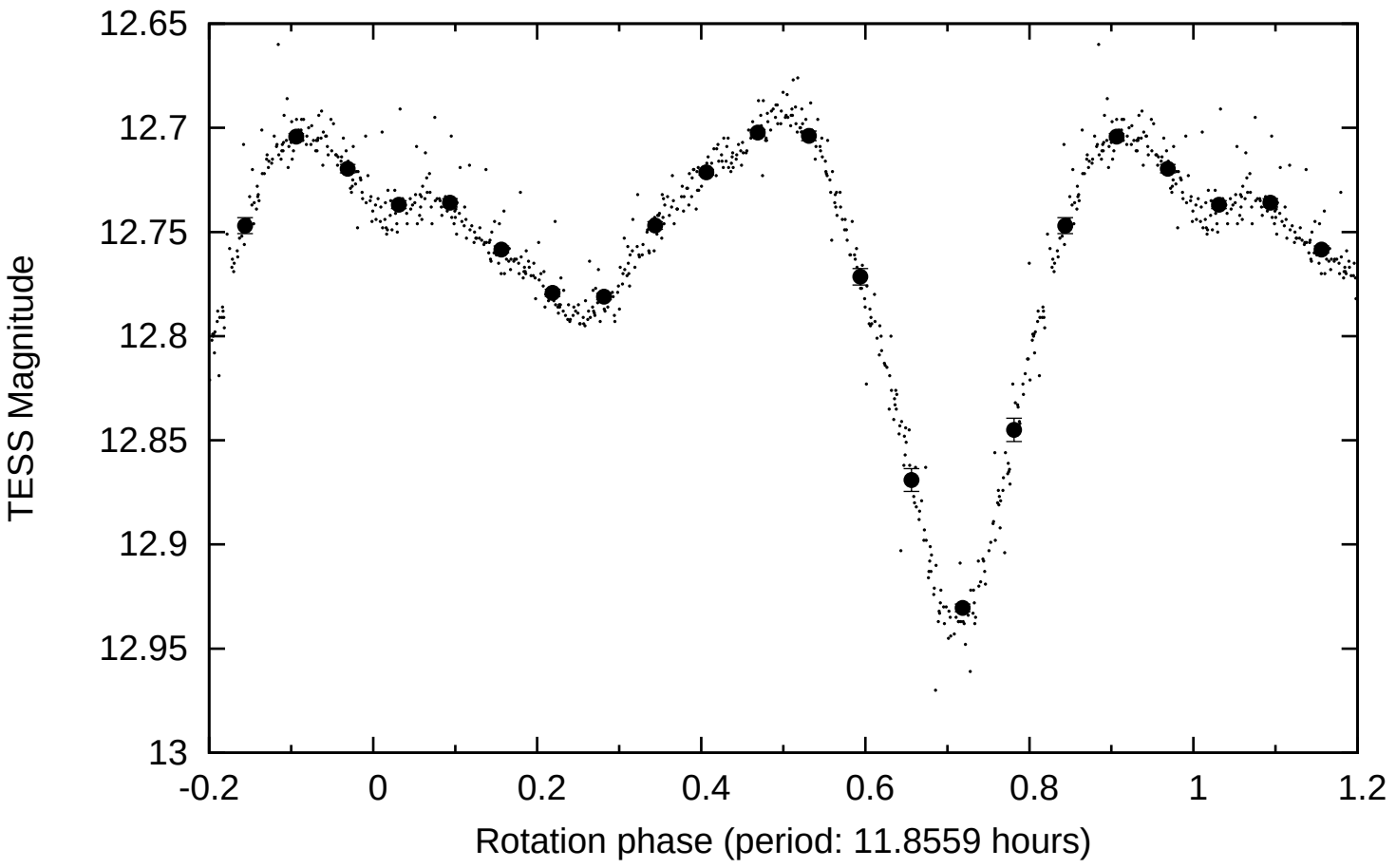

12.8
12.9
13
13.1
13.2
TESS Magnitude
4
5
6
7
8
9
10
11
12
13
14
Time (JD, t-2458610)

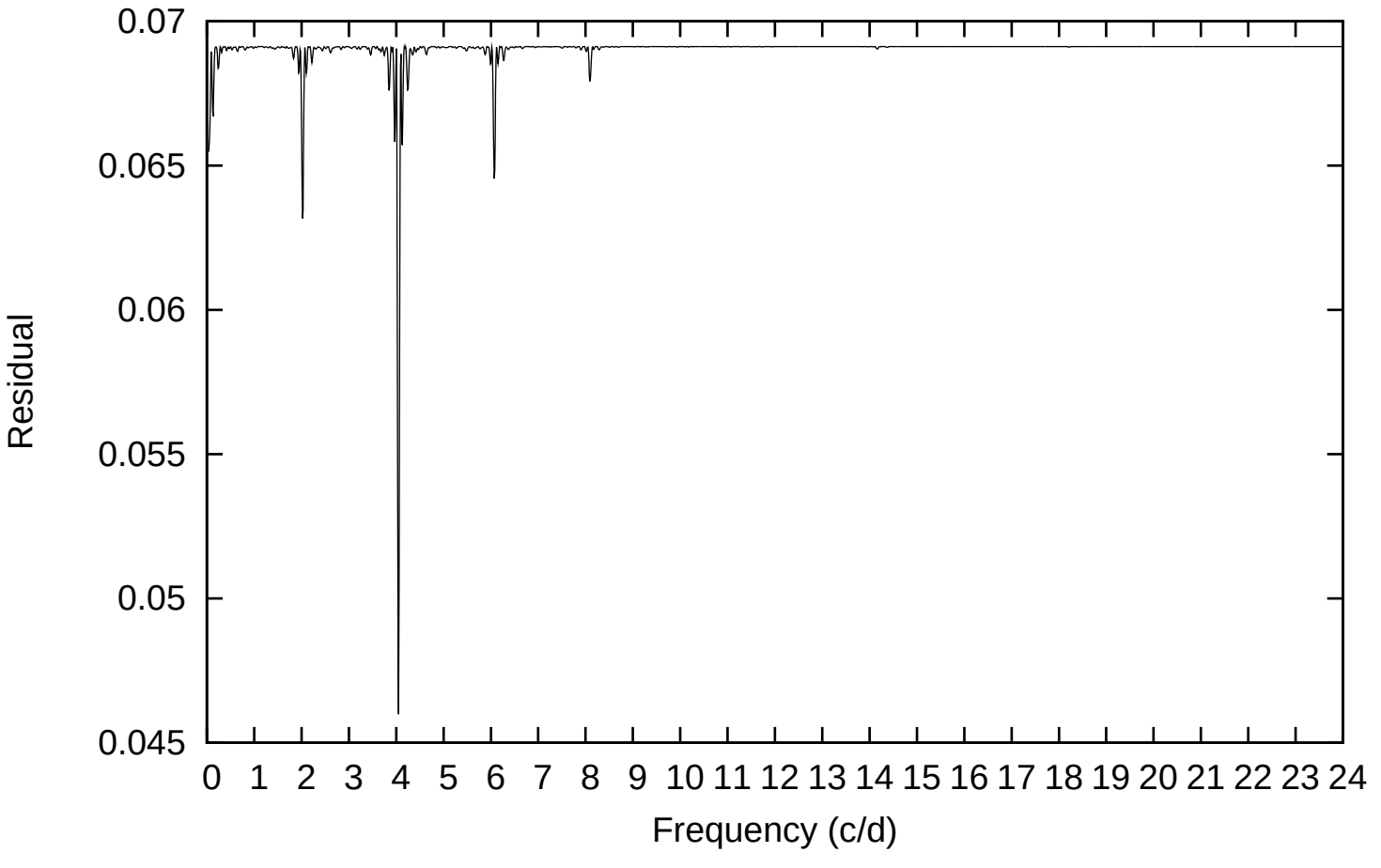

12.8
12.85
12.9
12.95
13
13.05
13.1
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 12.4786 hours)


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 21 22 23 24
Frequency (c/d)

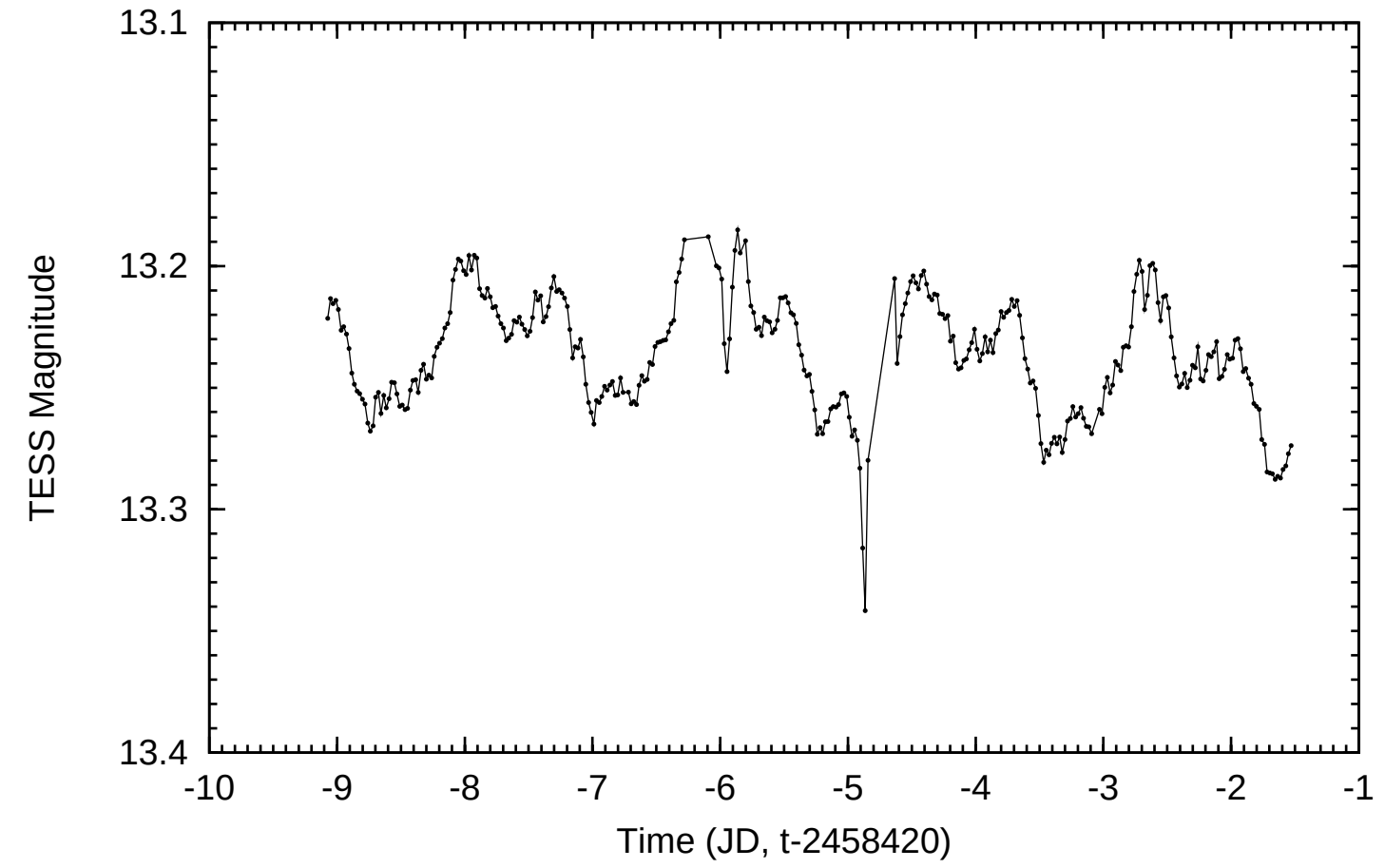
307

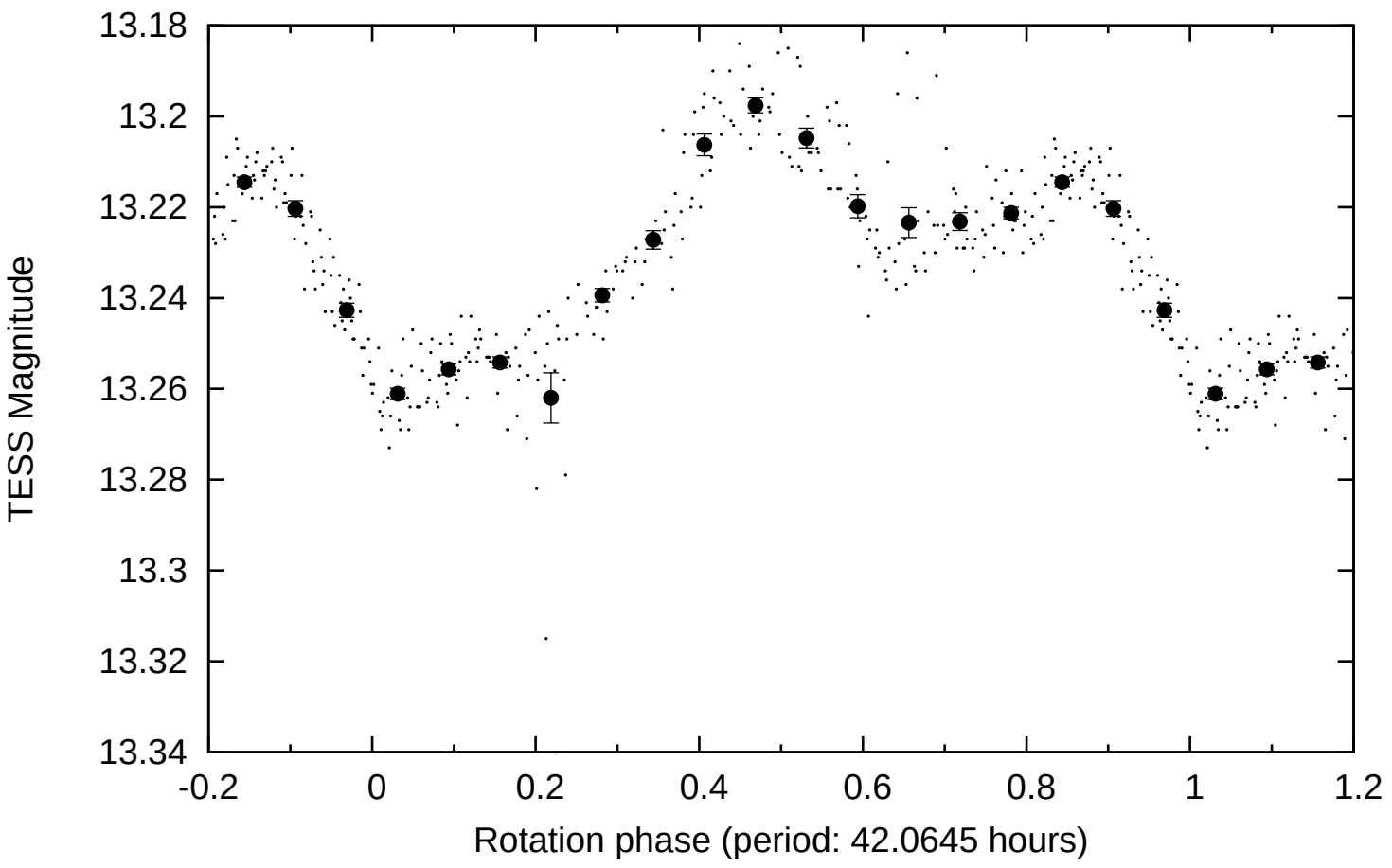

TESS Magnitude
12.6
12.7
12.8
12.9
13
13.1
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
Time (JD, t-2458420)

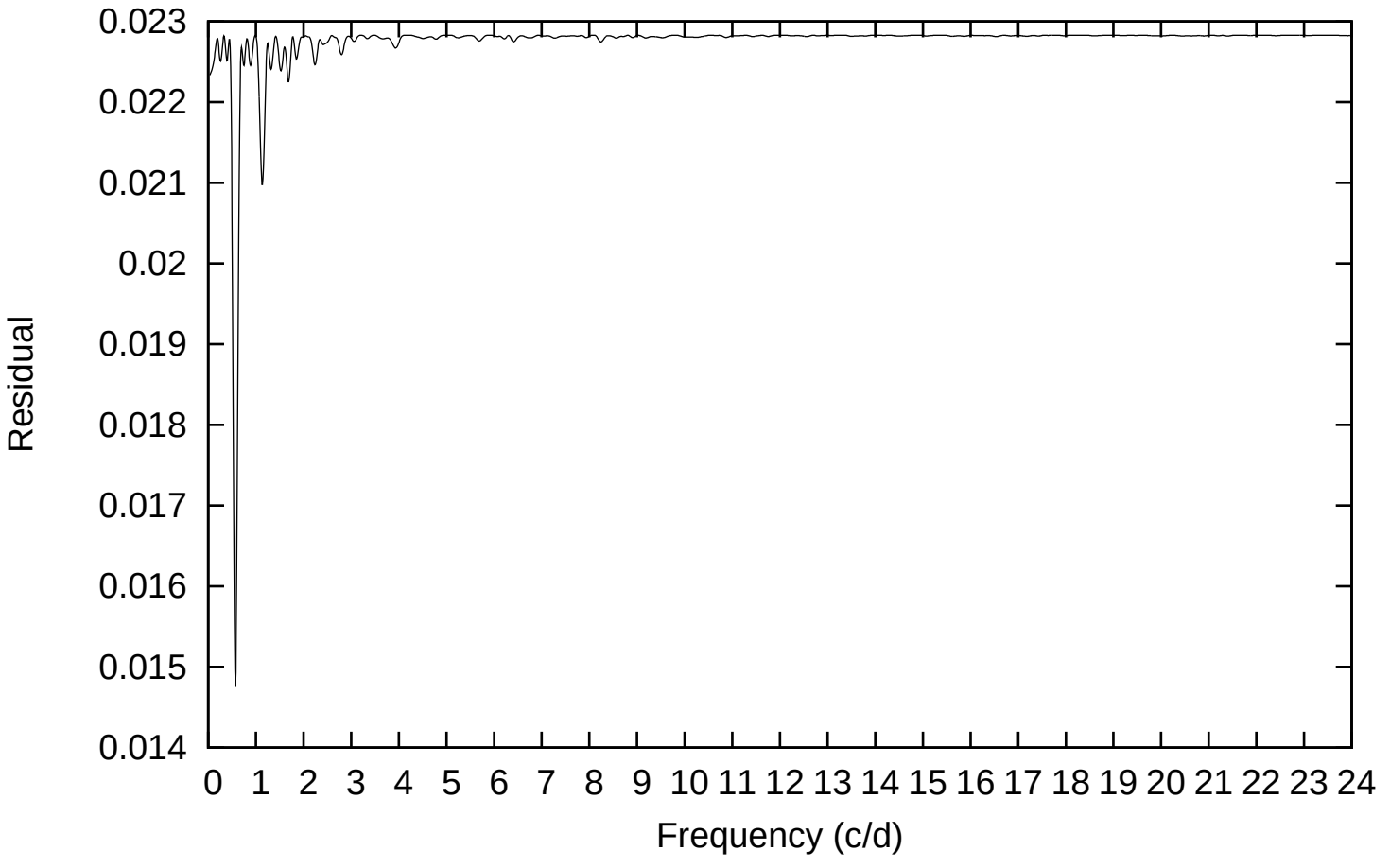

TESS Magnitude
12.65
12.7
12.75
12.8
12.85
12.9
12.95
13
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 11.8559 hours)


Residual
0.07
0.065
0.06
0.055
0.05
0.045
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

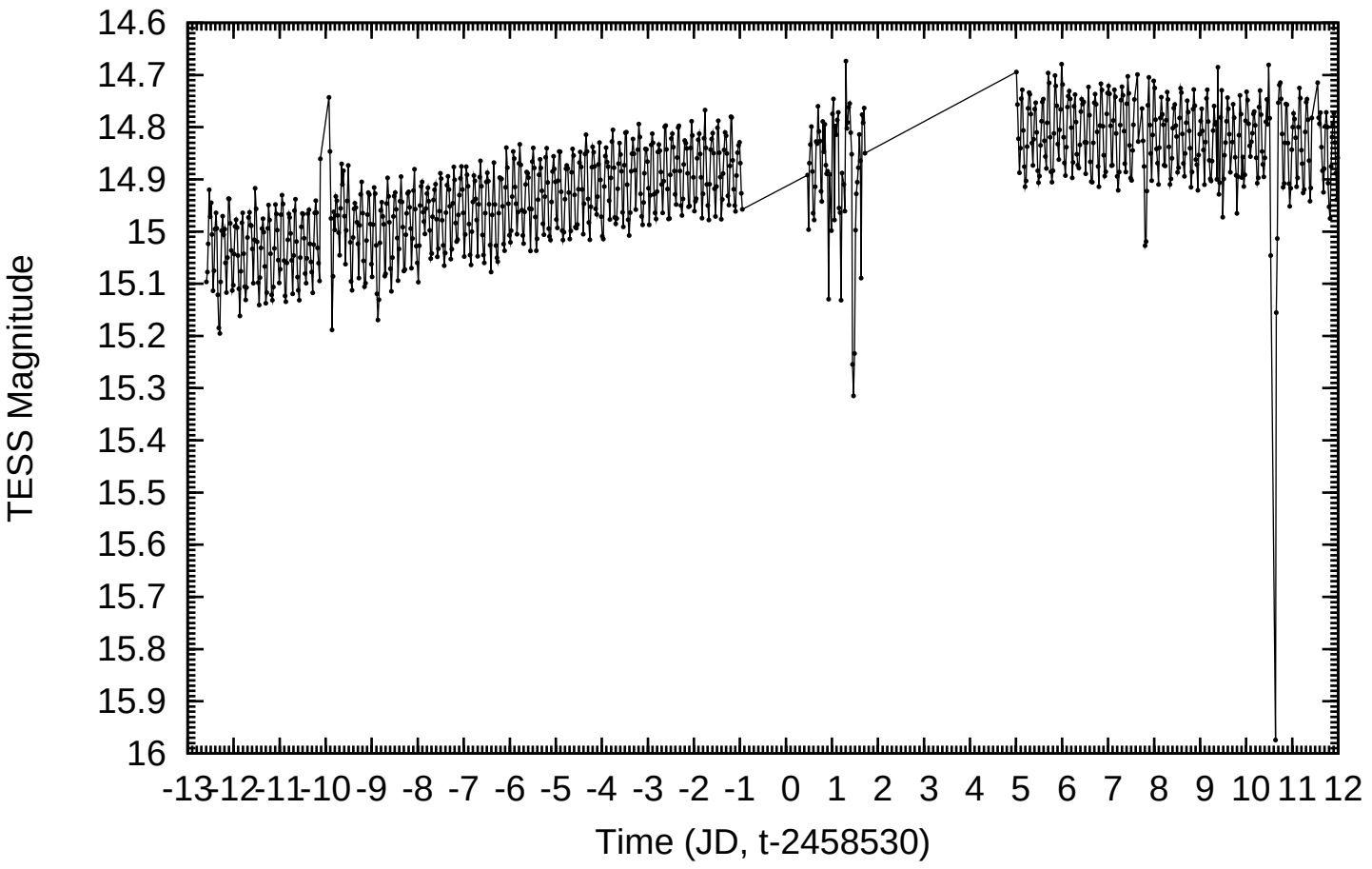
318

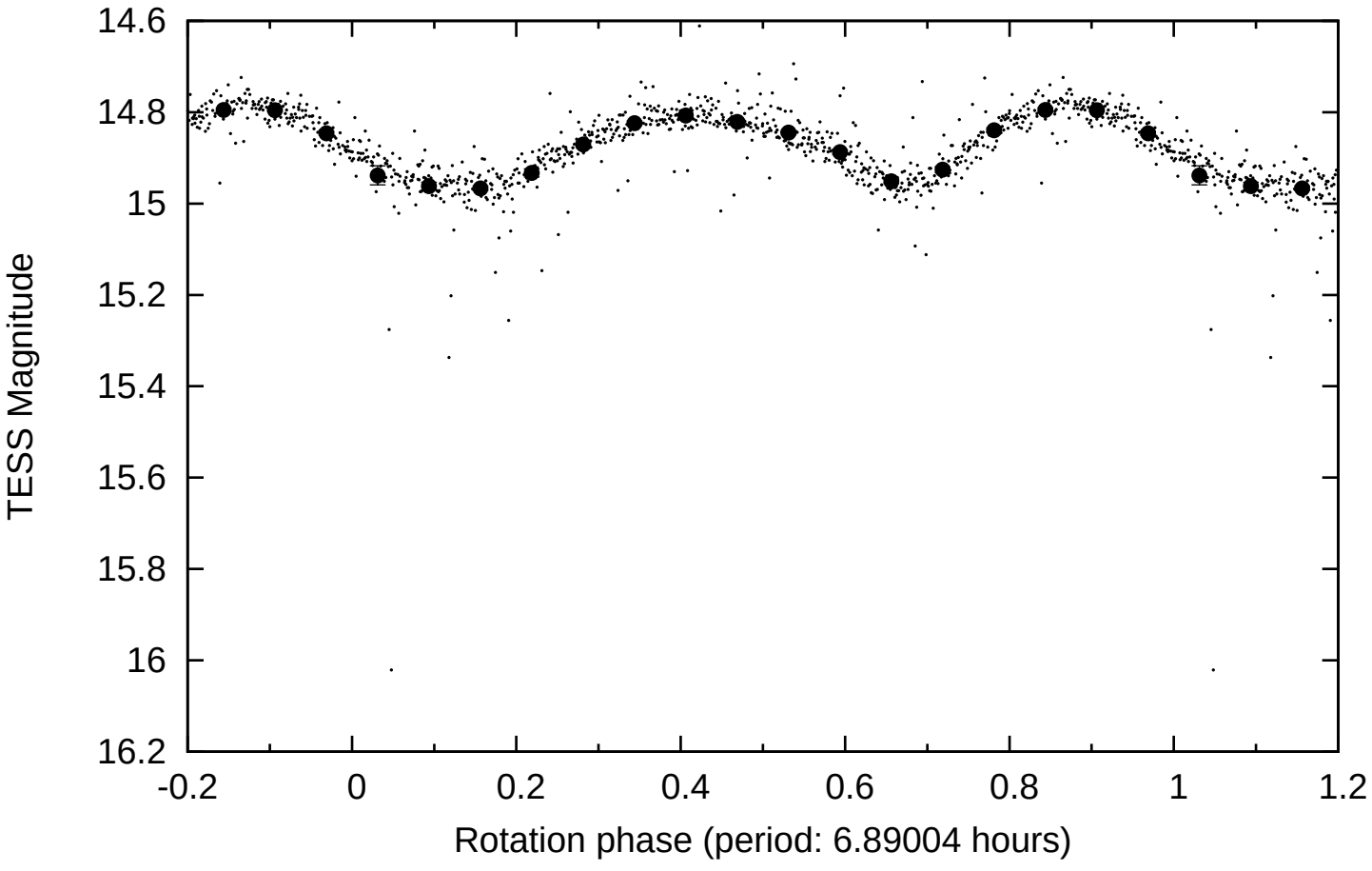

13.1
13.2
13.3
13.4
TESS Magnitude
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
Time (JD, t-2458420)

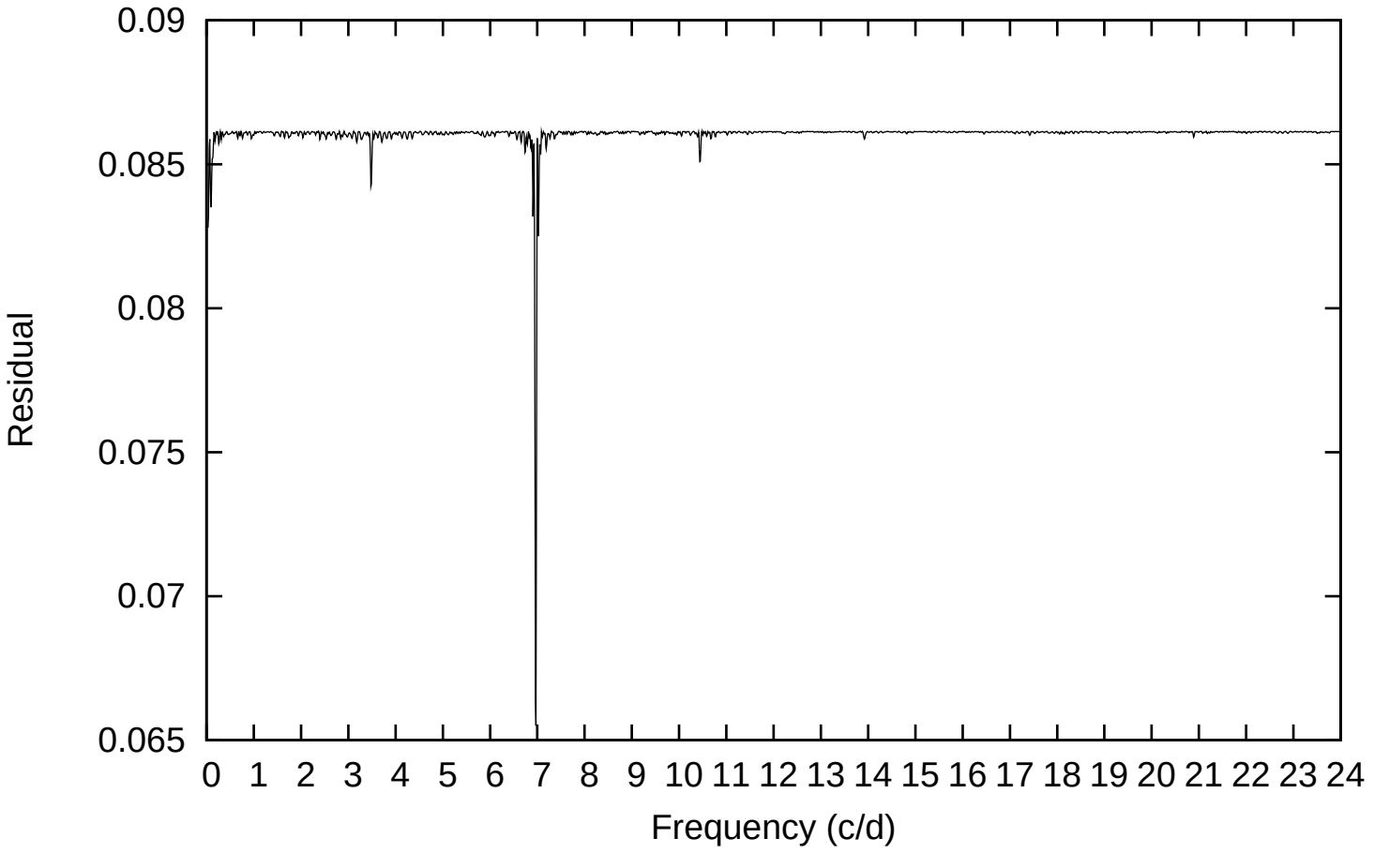

13.18
13.2
13.22
13.24
13.26
13.28
13.3
13.32
13.34
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 42.0645 hours)


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 21 22 23 24
Frequency (c/d)

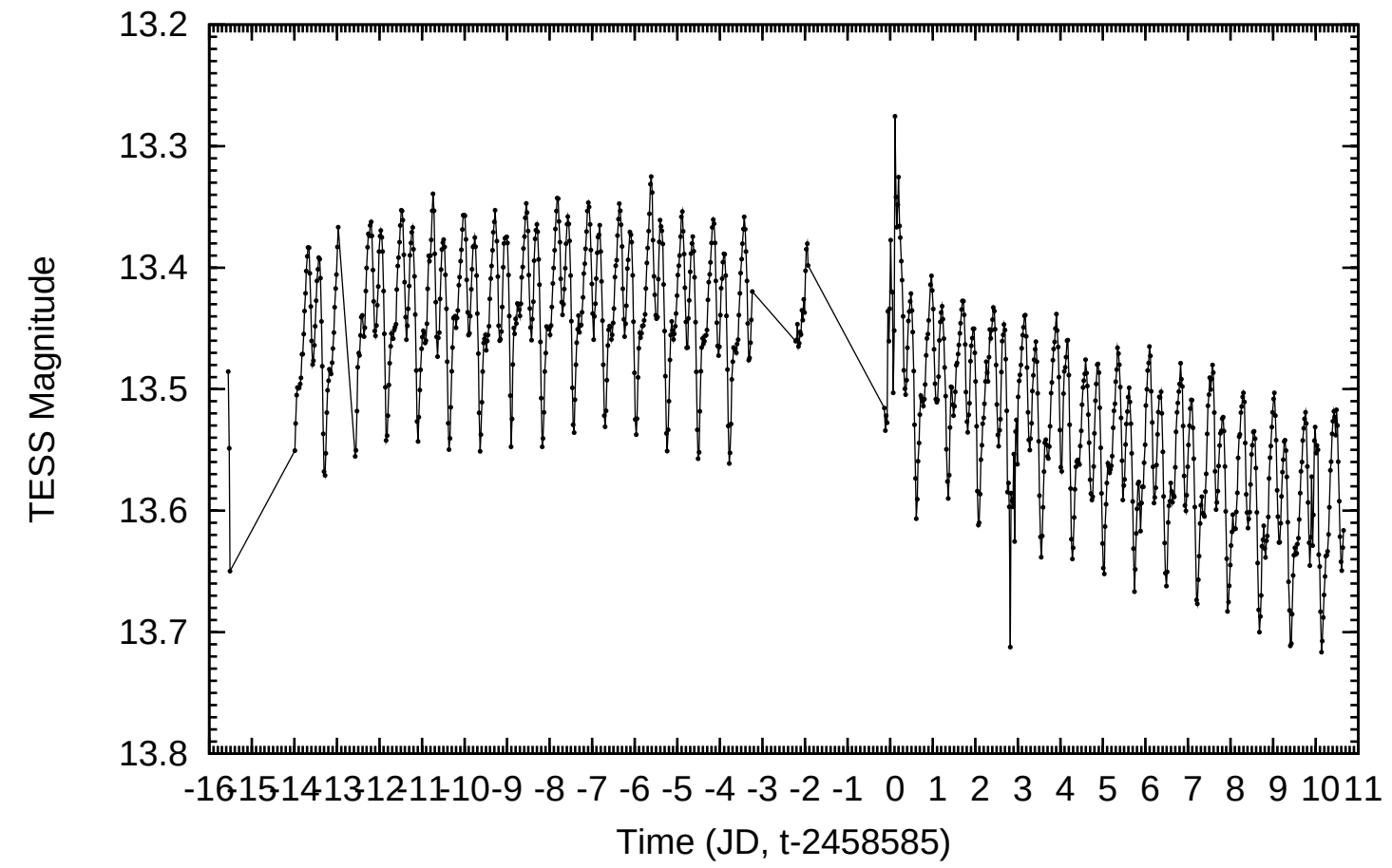
320

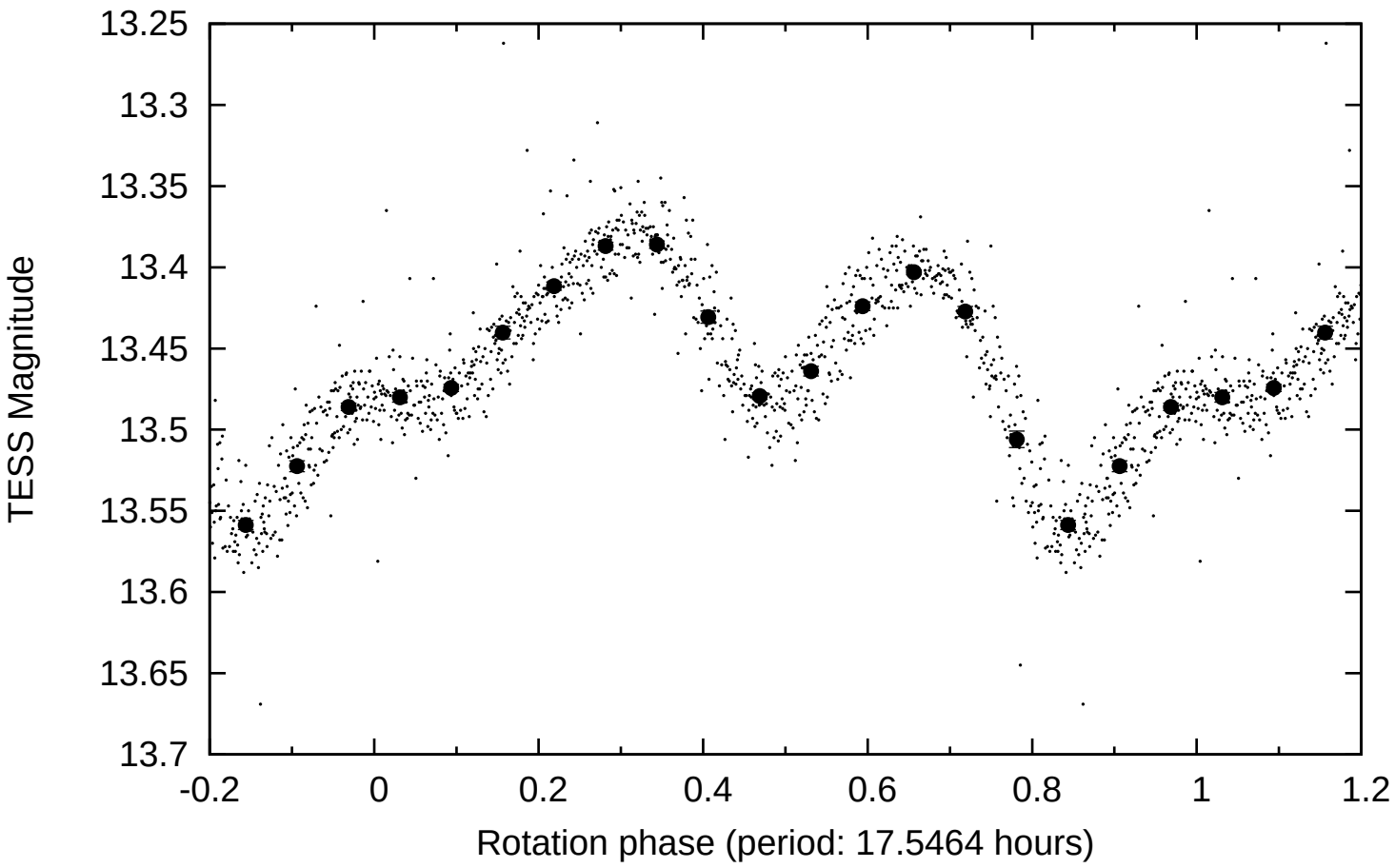

TESS Magnitude
14.6
14.7
14.8
14.9
15
15.1
15.2
15.3
15.4
15.5
15.6
15.7
15.8
15.9
16
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458530)

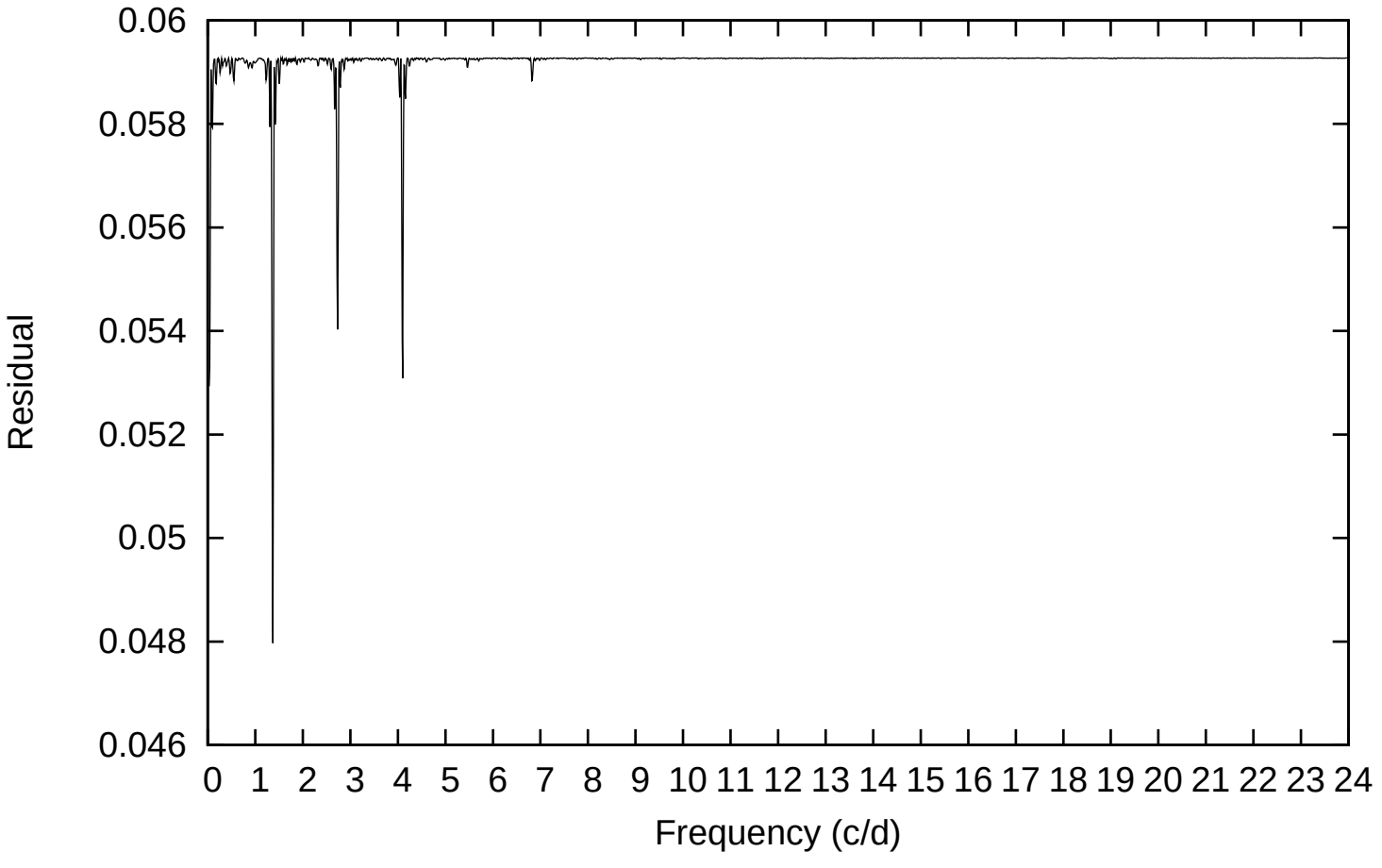

TESS Magnitude
14.6
14.8
15
15.2
15.4
15.6
15.8
16
16.2
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 6.89004 hours)


Residual
0.09
0.085
0.08
0.075
0.07
0.065
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

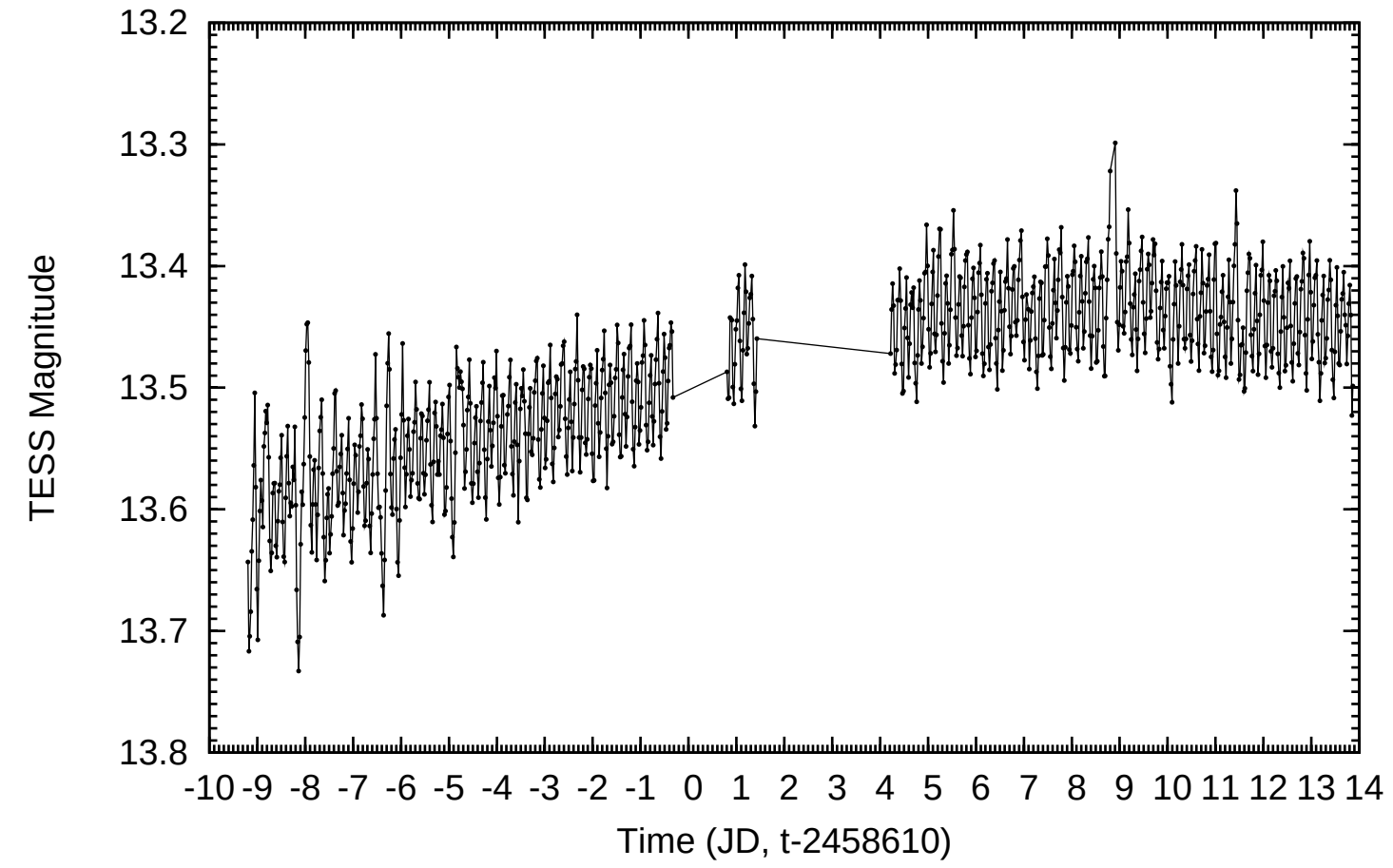
322

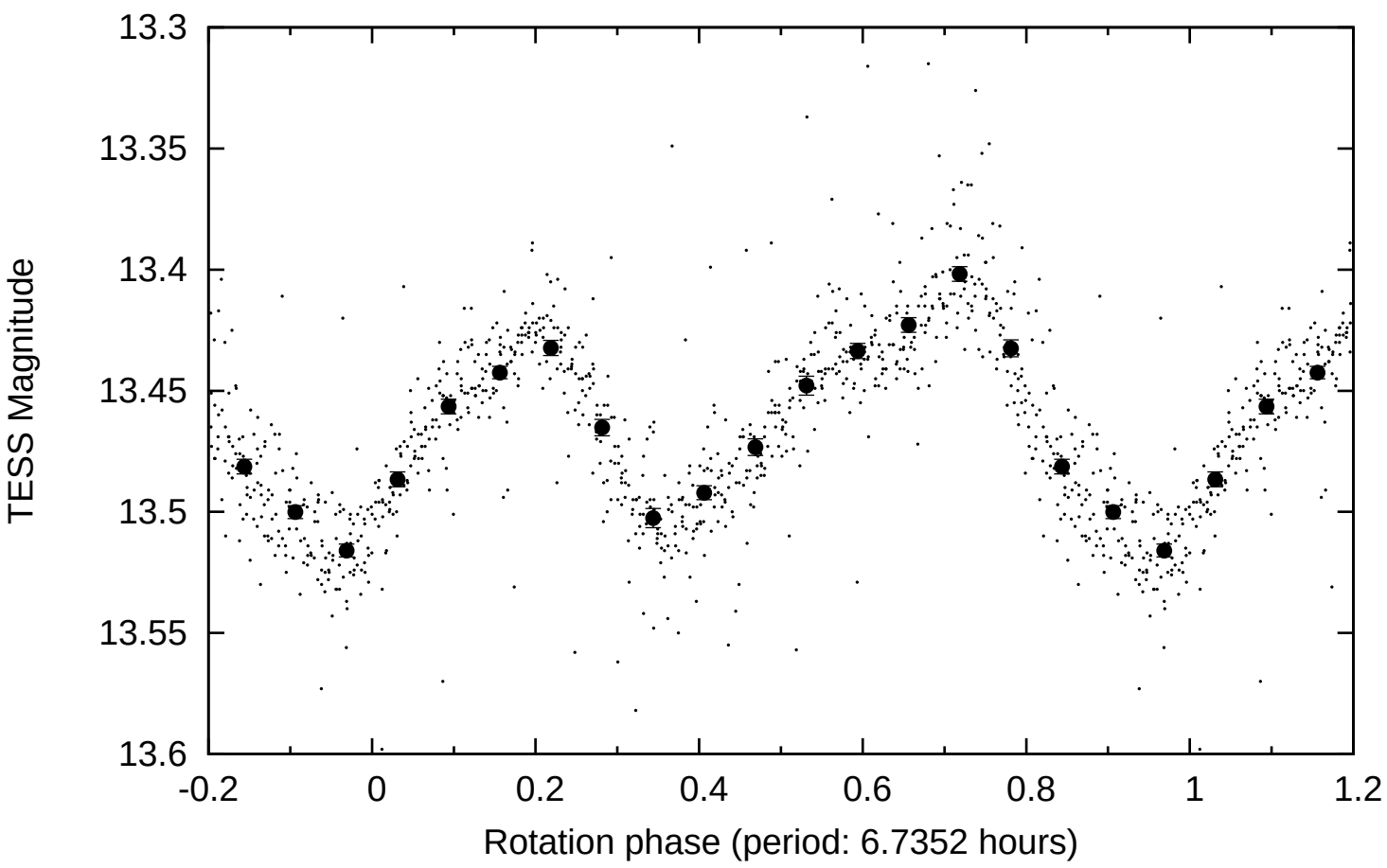

TESS Magnitude
13.2
13.3
13.4
13.5
13.6
13.7
13.8
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458585)

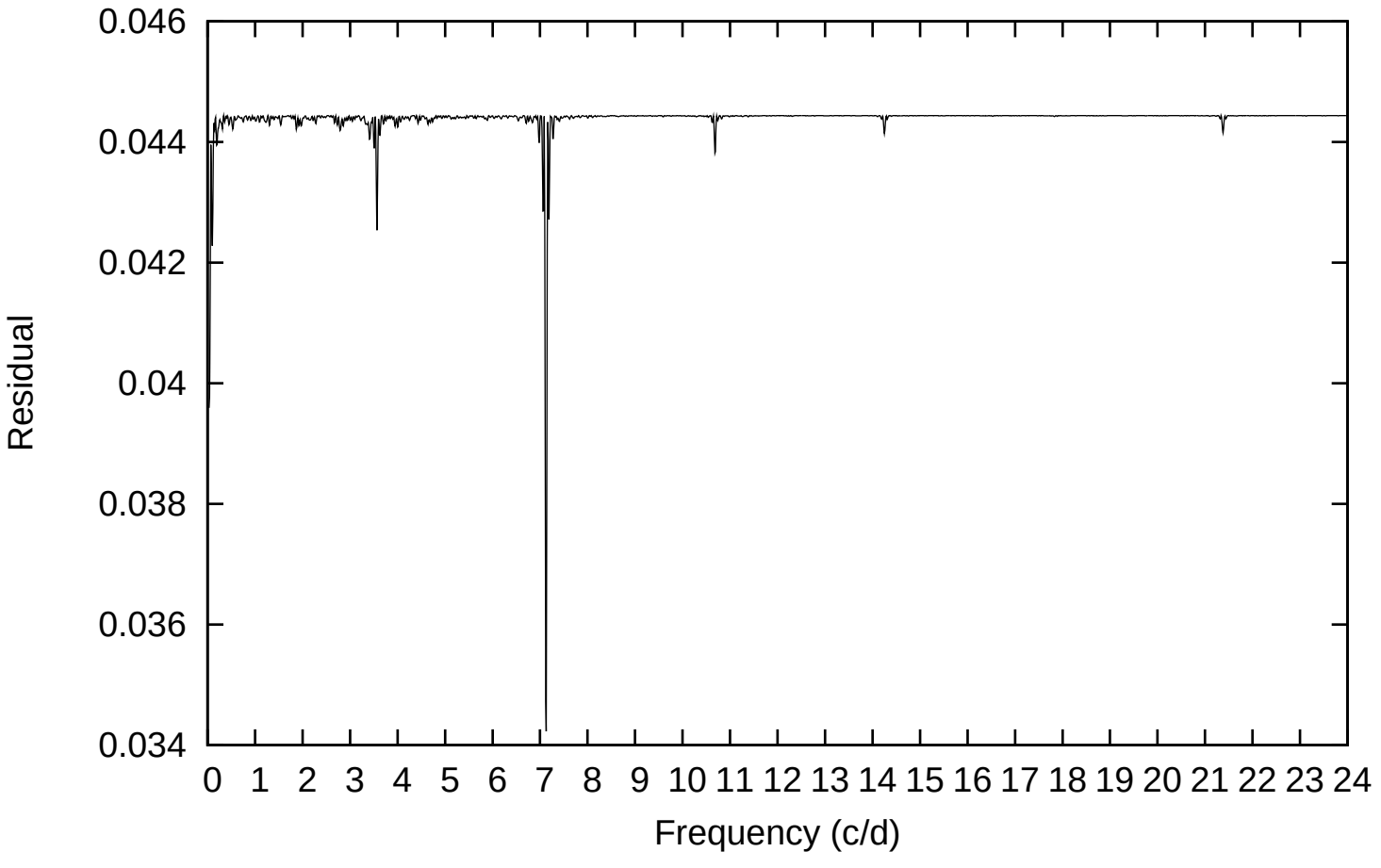

TESS Magnitude
13.25
13.3
13.35
13.4
13.45
13.5
13.55
13.6
13.65
13.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 17.5464 hours)


Residual
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

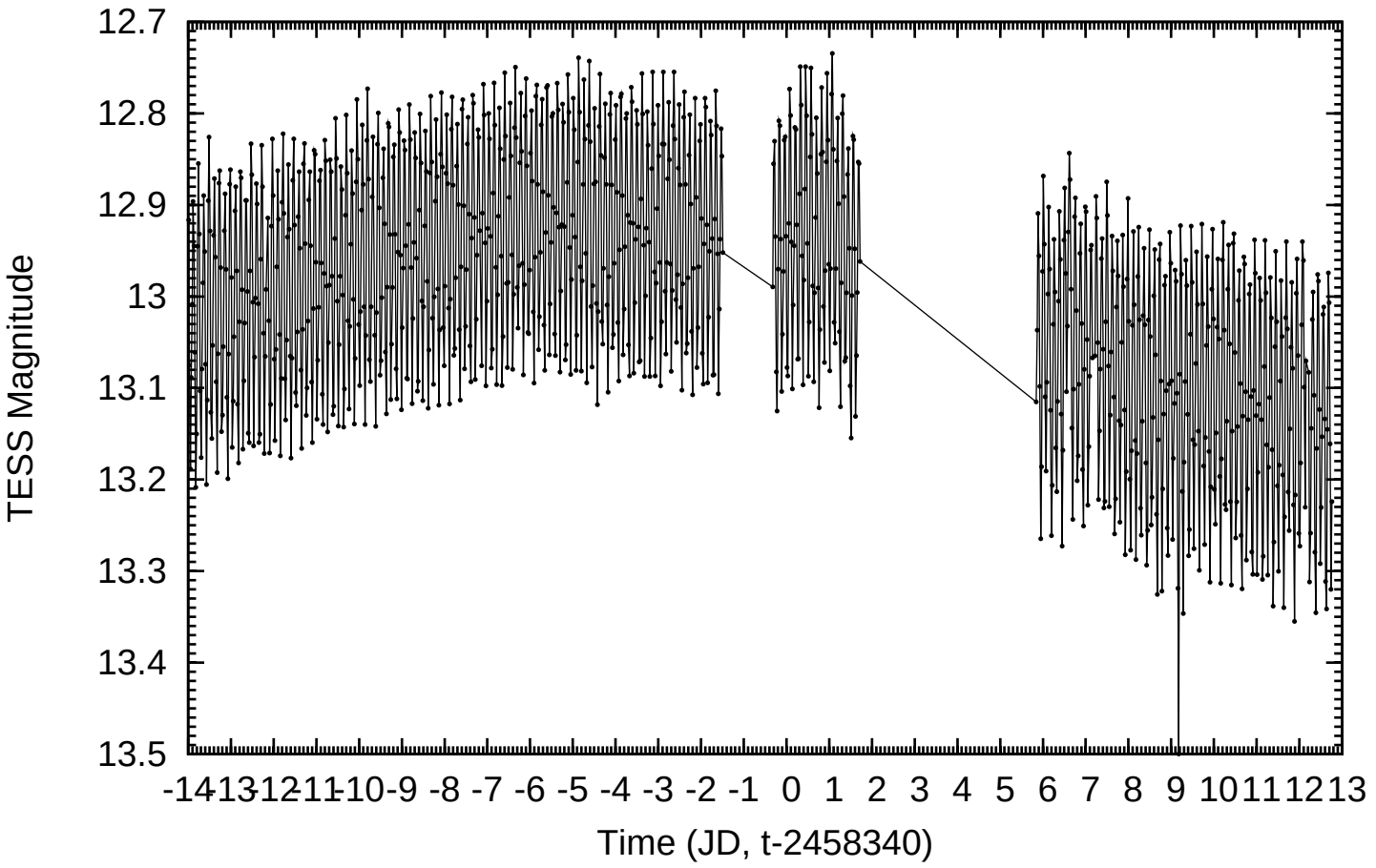
325

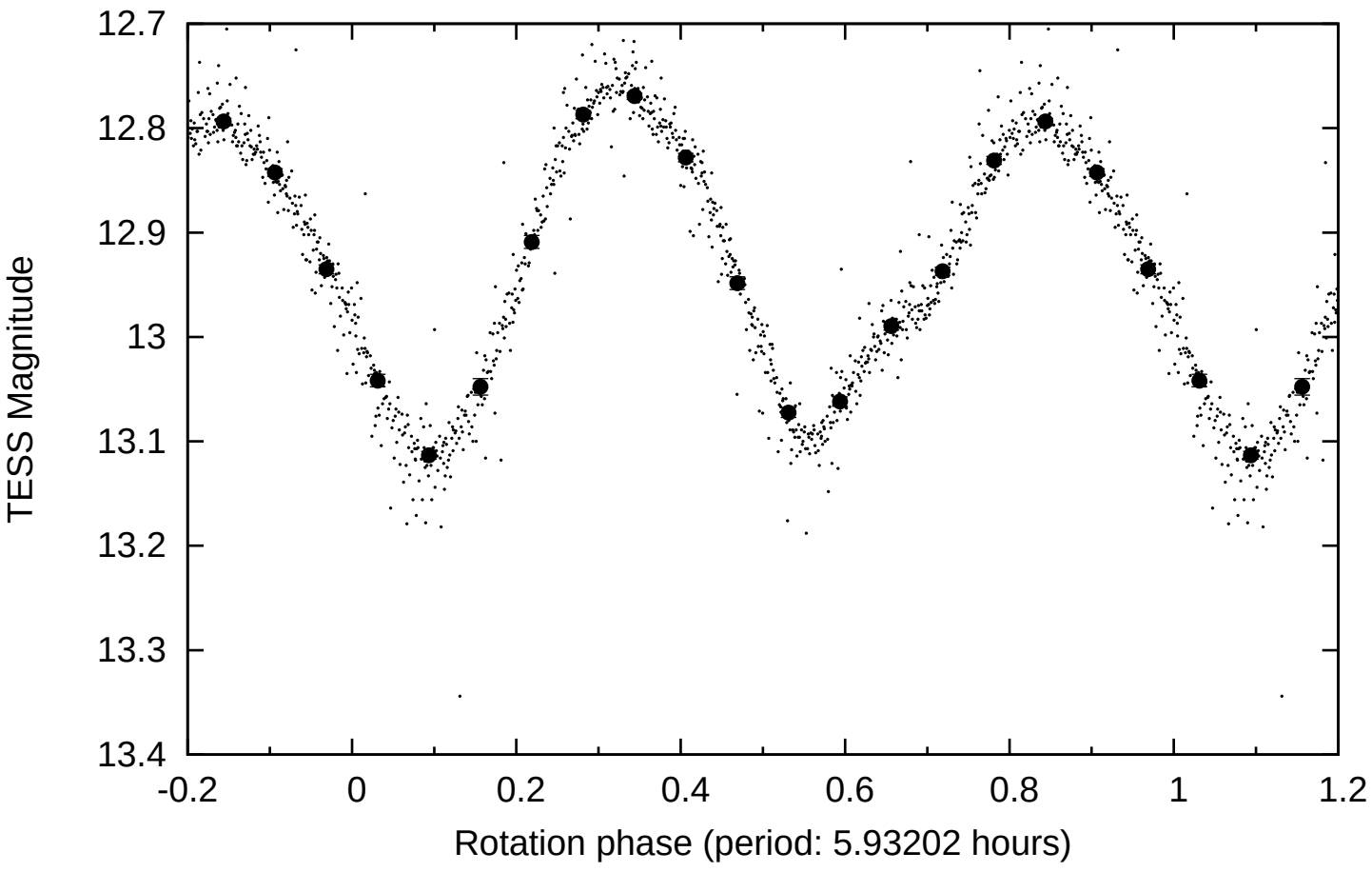

TESS Magnitude
13.2
13.3
13.4
13.5
13.6
13.7
13.8
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458610)

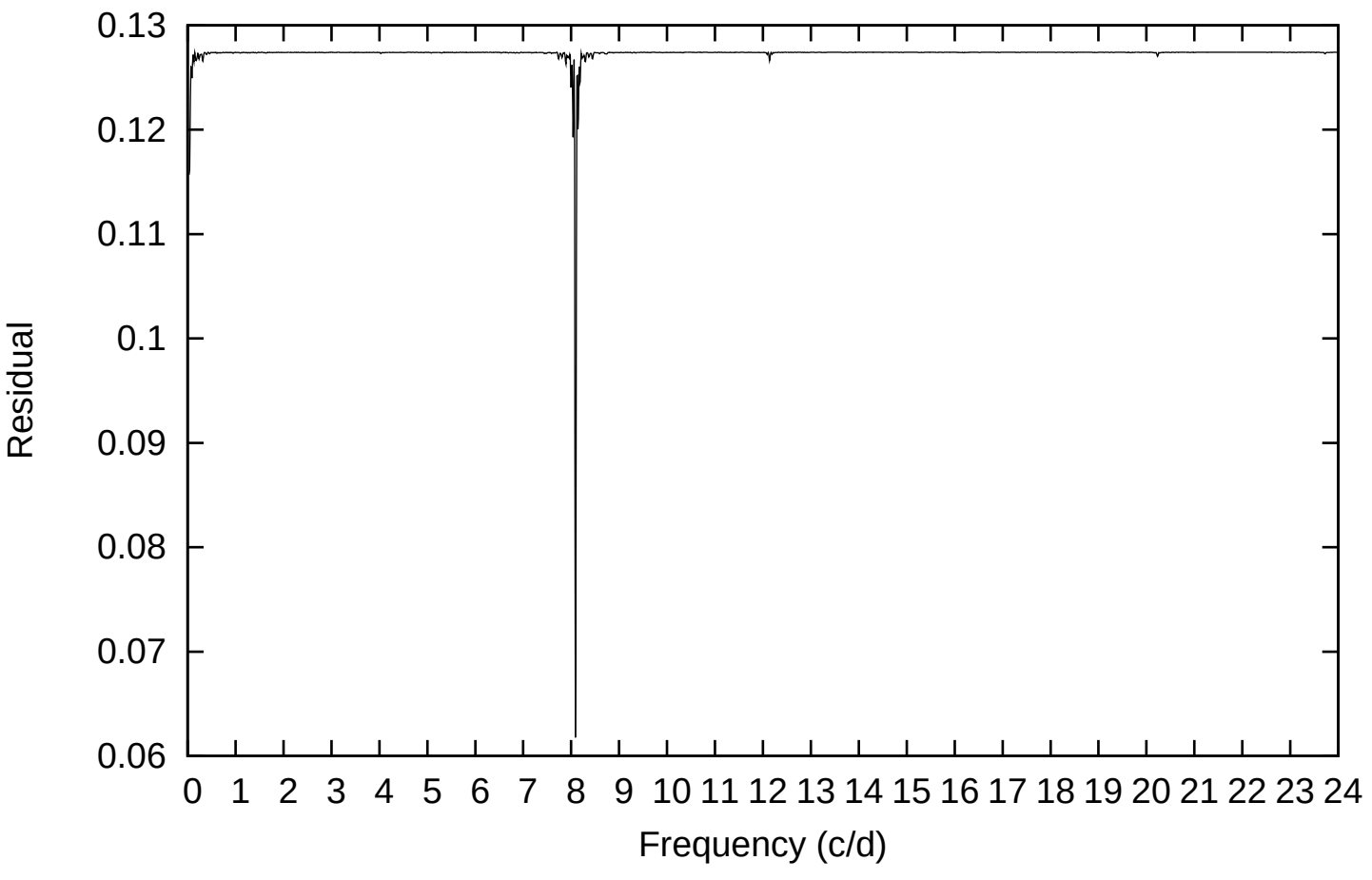

TESS Magnitude
13.3
13.35
13.4
13.45
13.5
13.55
13.6
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 6.7352 hours)


Residual
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

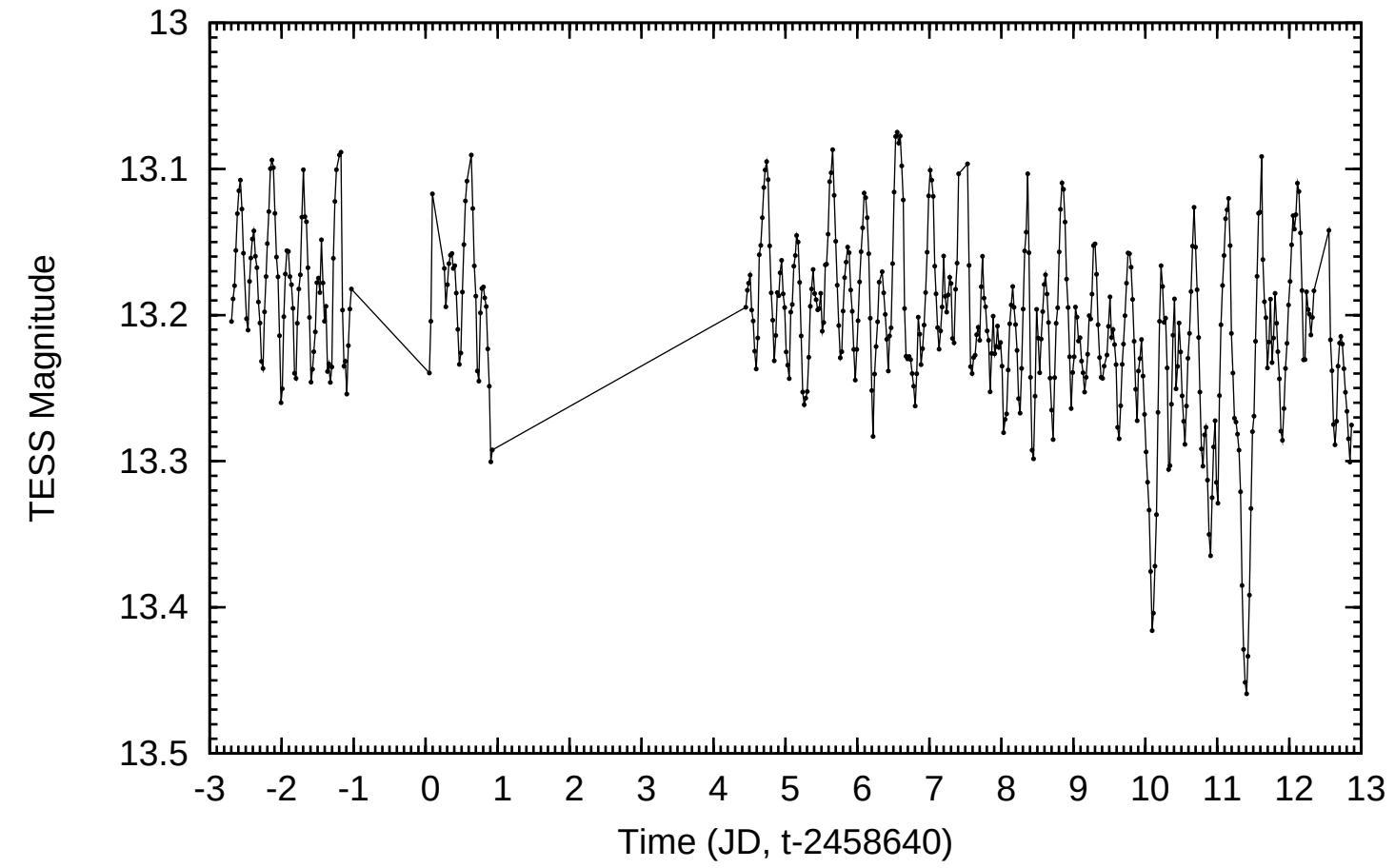
327

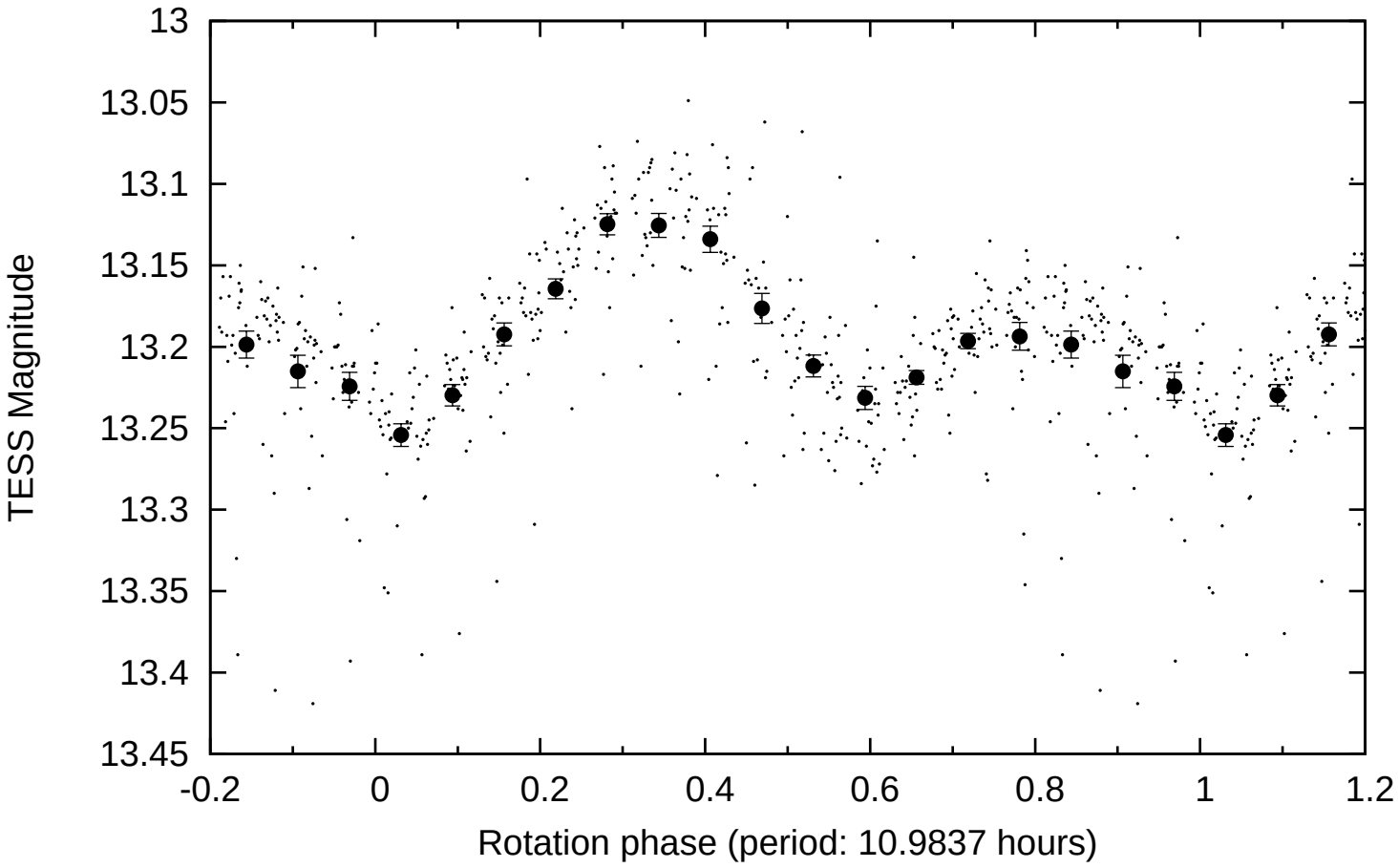

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458340)

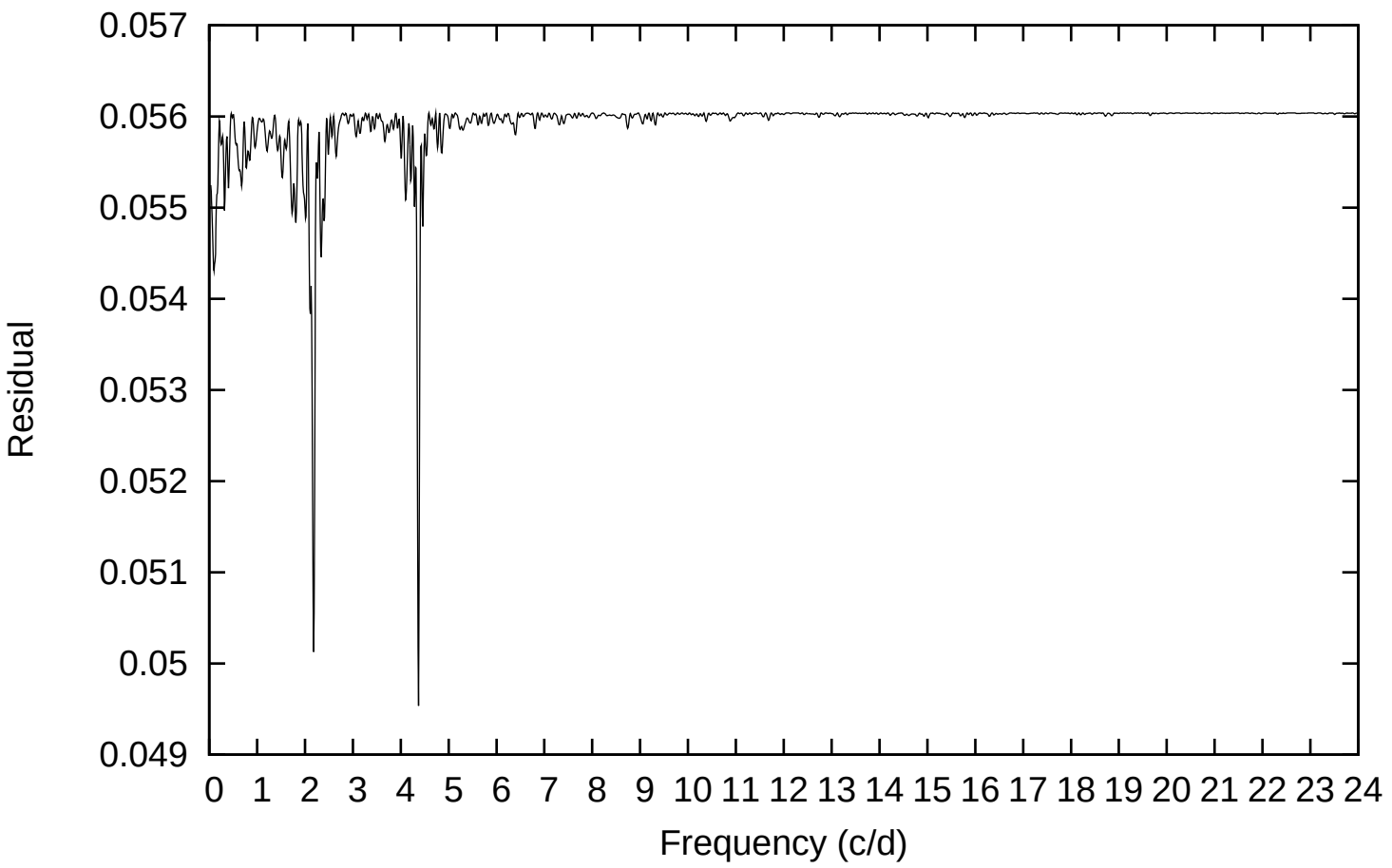

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 5.93202 hours)


Residual
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

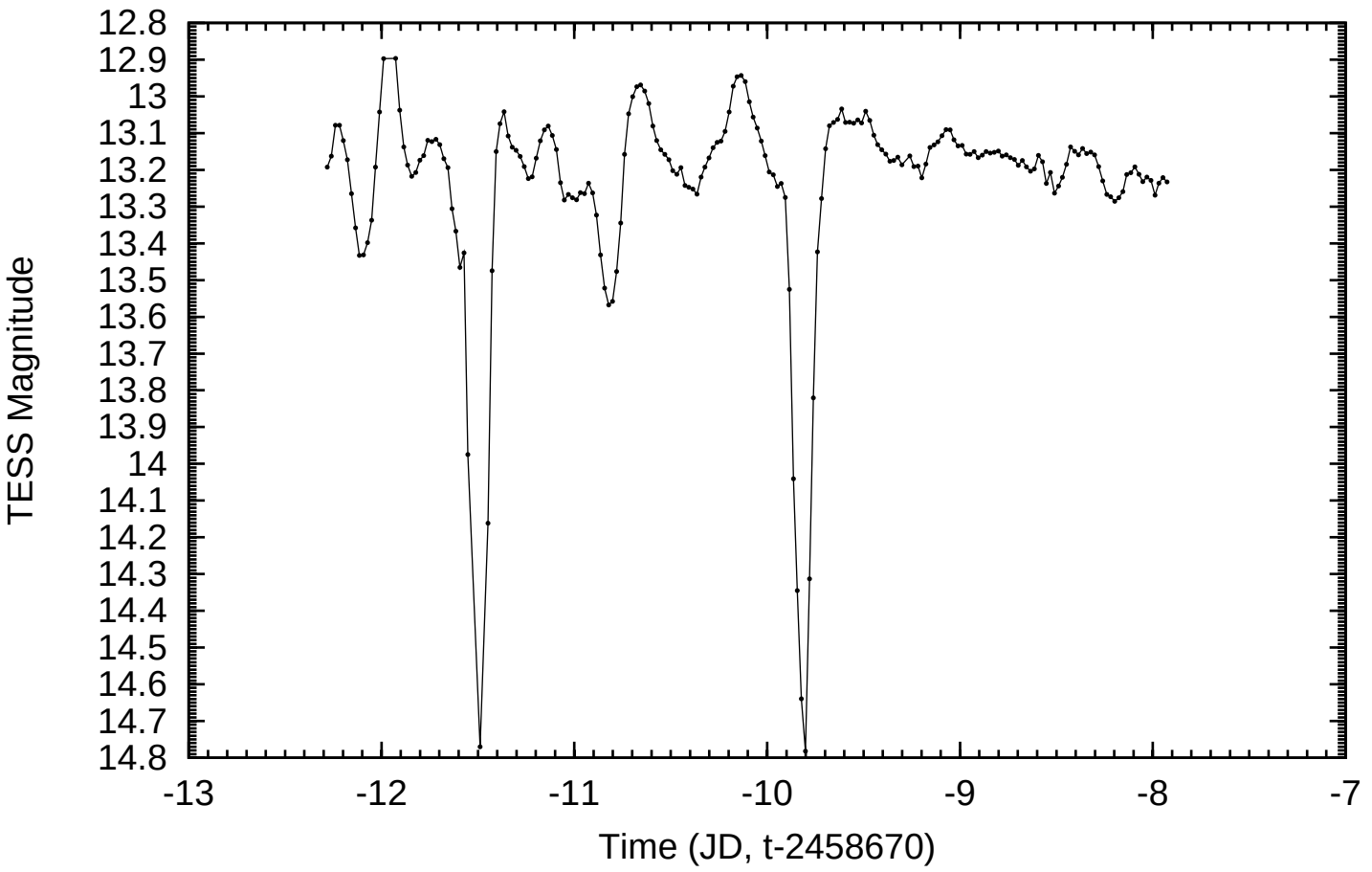
328

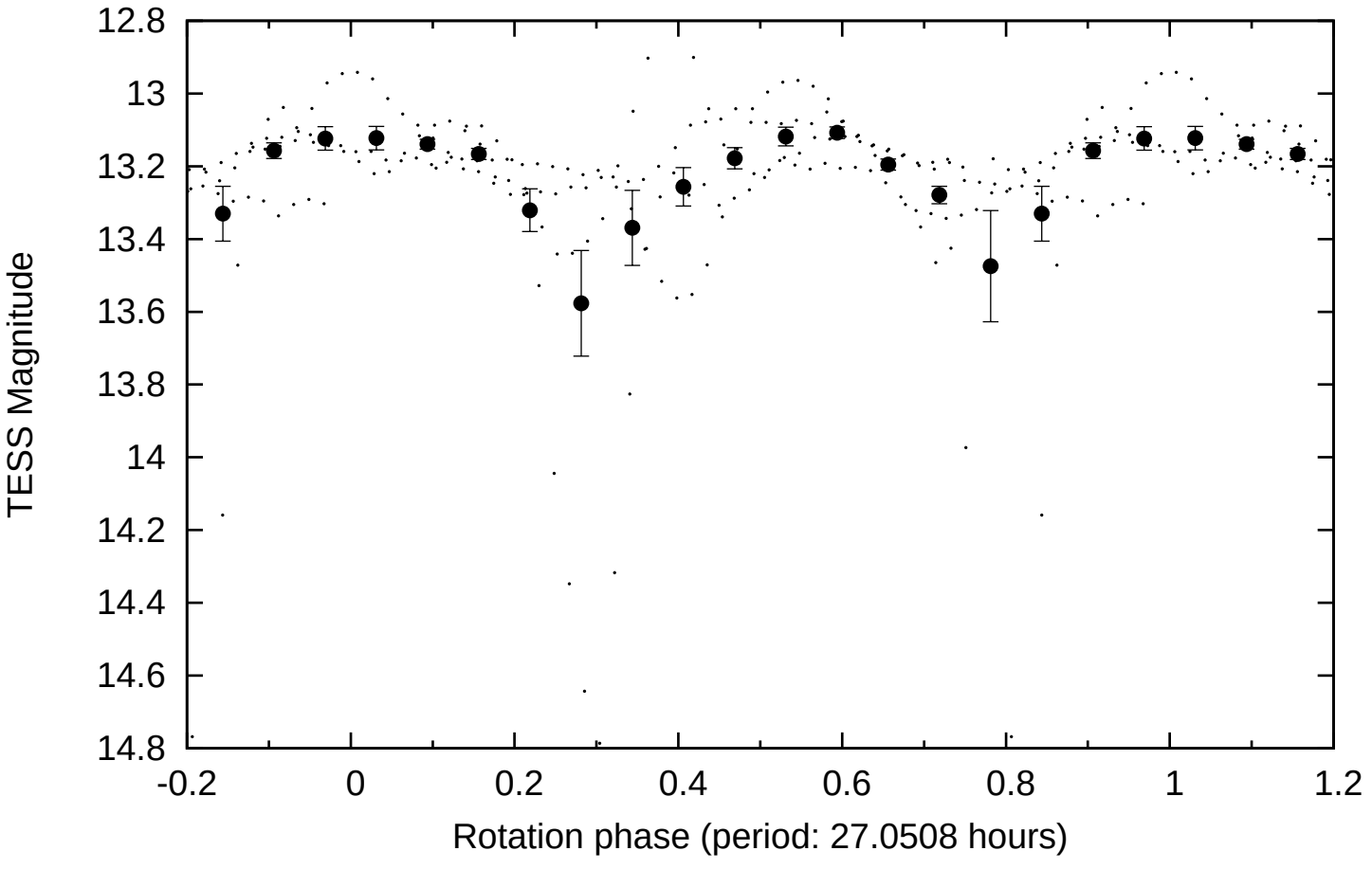

TESS Magnitude
13
13.1
13.2
13.3
13.4
13.5
-3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

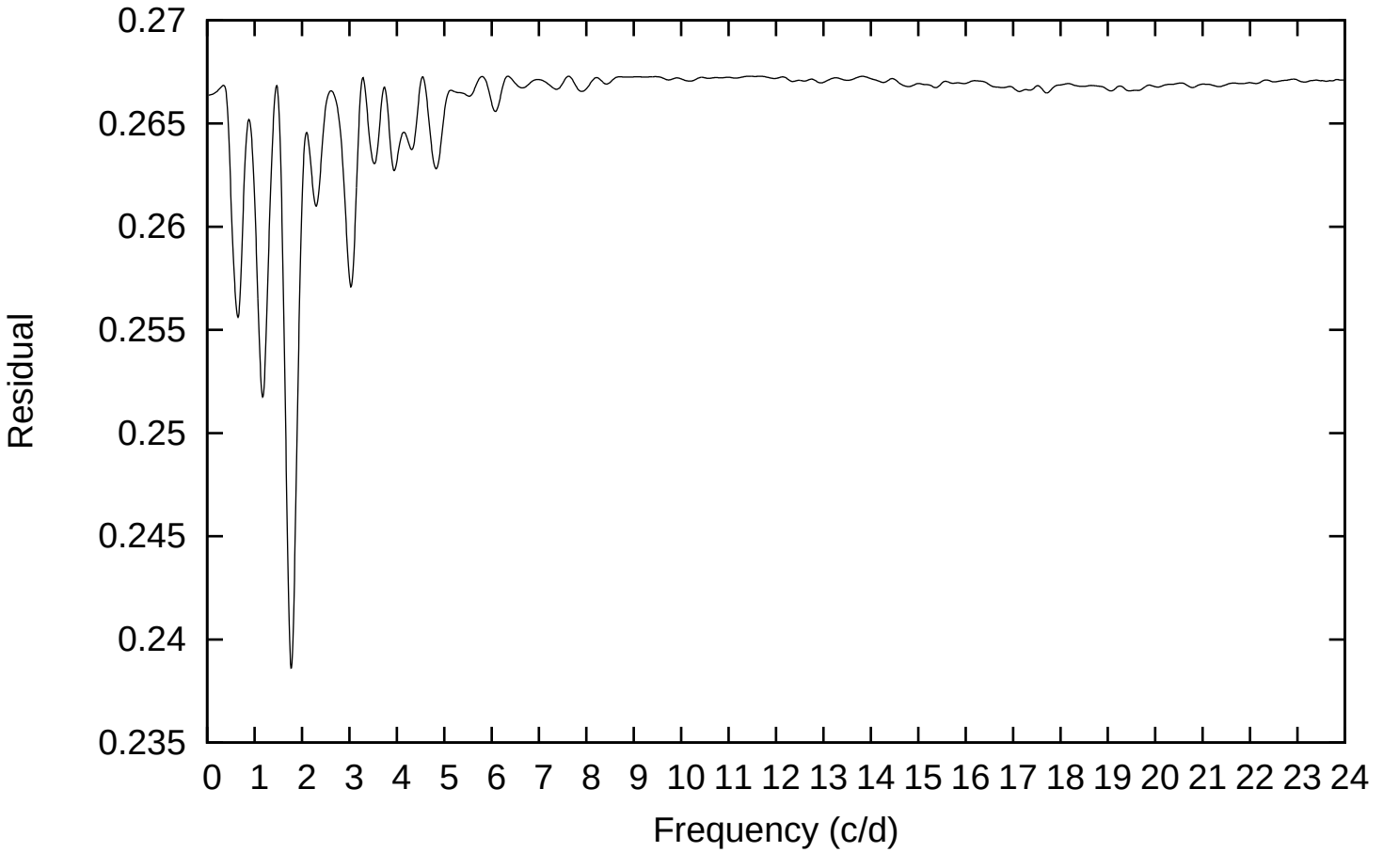

TESS Magnitude
13
13.05
13.1
13.15
13.2
13.25
13.3
13.35
13.4
13.45
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 10.9837 hours)


Residual
0.057
0.056
0.055
0.054
0.053
0.052
0.051
0.05
0.049
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

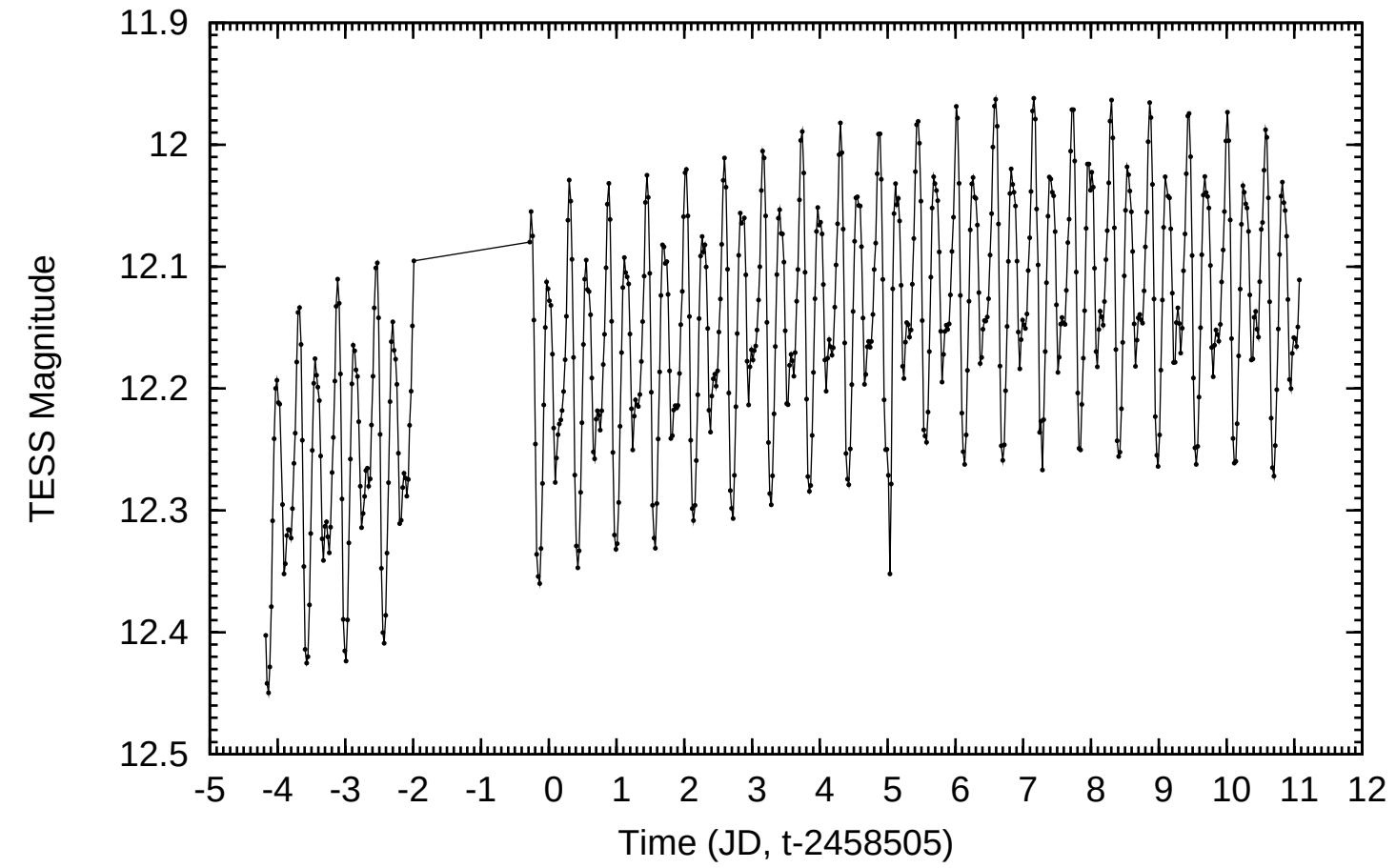
331

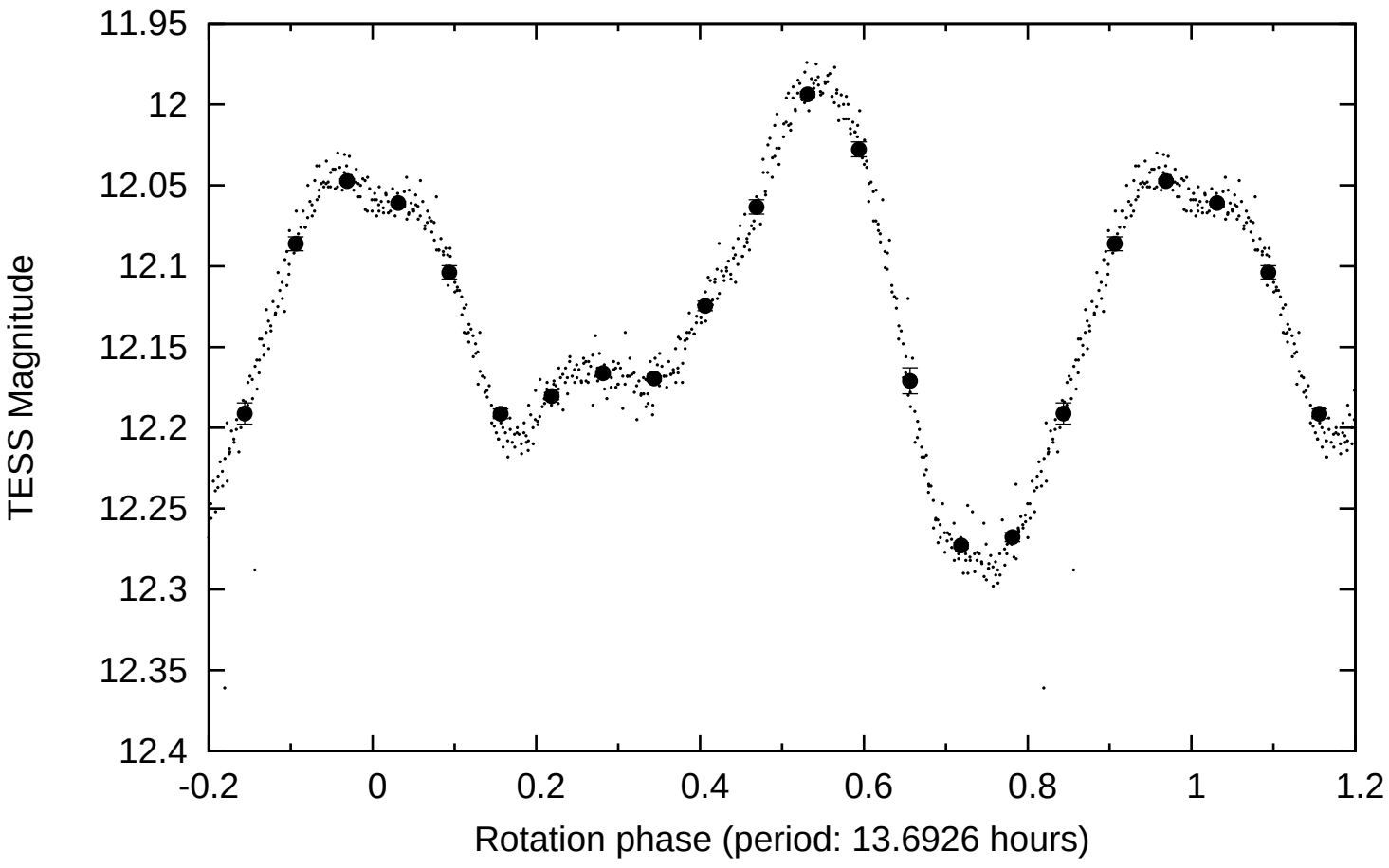

TESS Magnitude
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
14.6
14.7
14.8
-13
-12
-11
-10
-9
-8
-7
Time (JD, t-2458670)

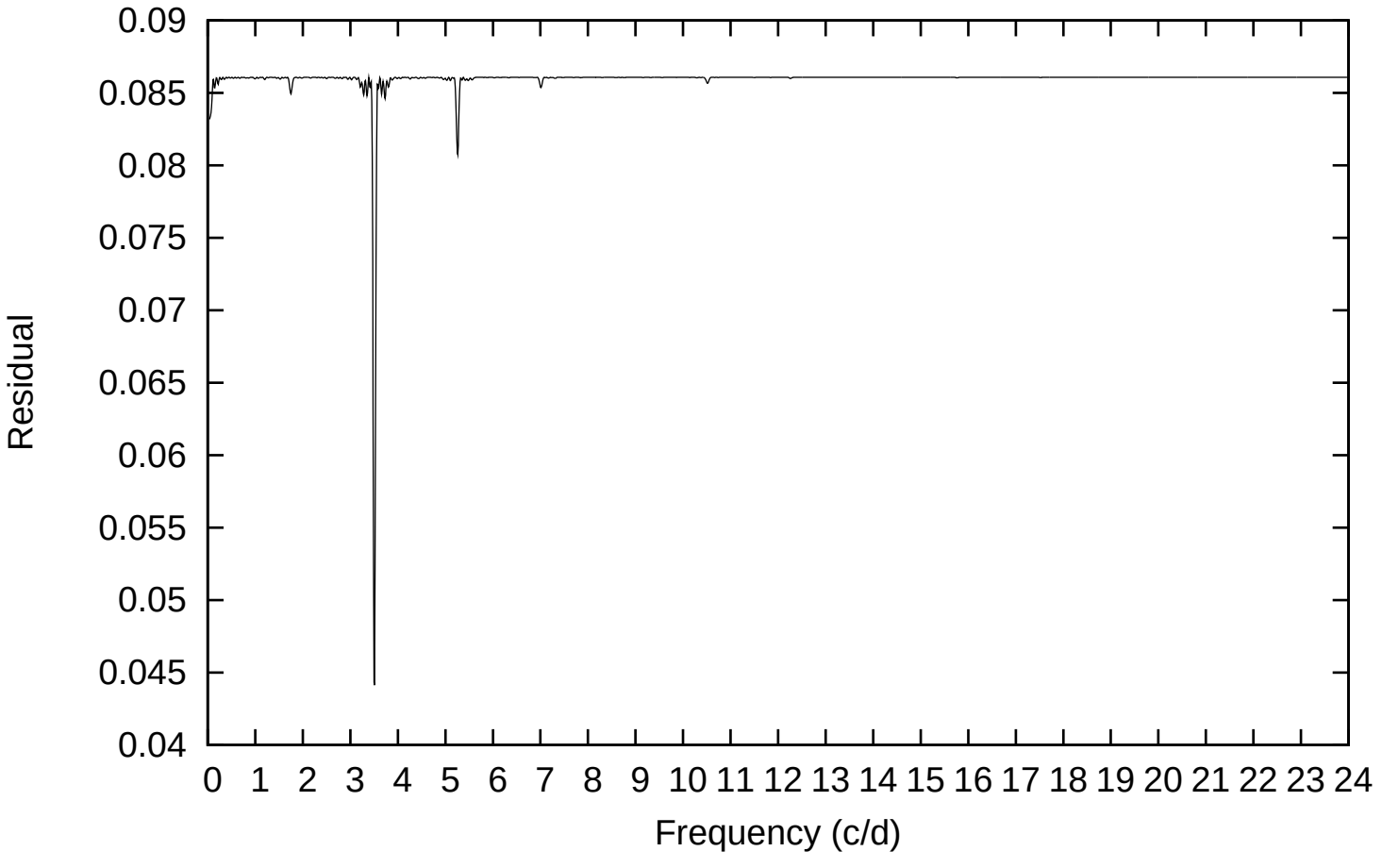

TESS Magnitude
12.8
13
13.2
13.4
13.6
13.8
14
14.2
14.4
14.6
14.8
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 27.0508 hours)


Residual
0.27
0.265
0.26
0.255
0.25
0.245
0.24
0.235
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

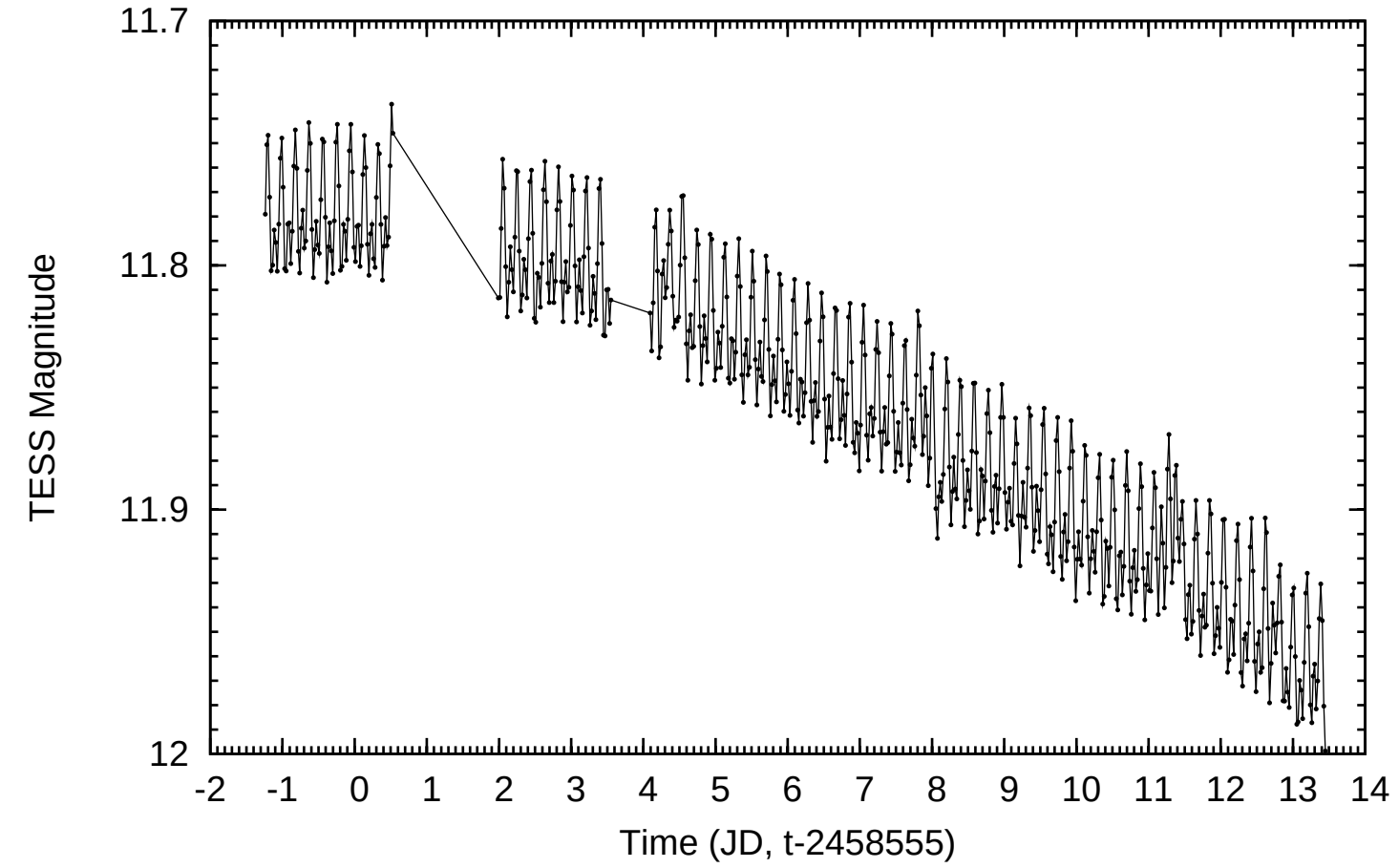
336

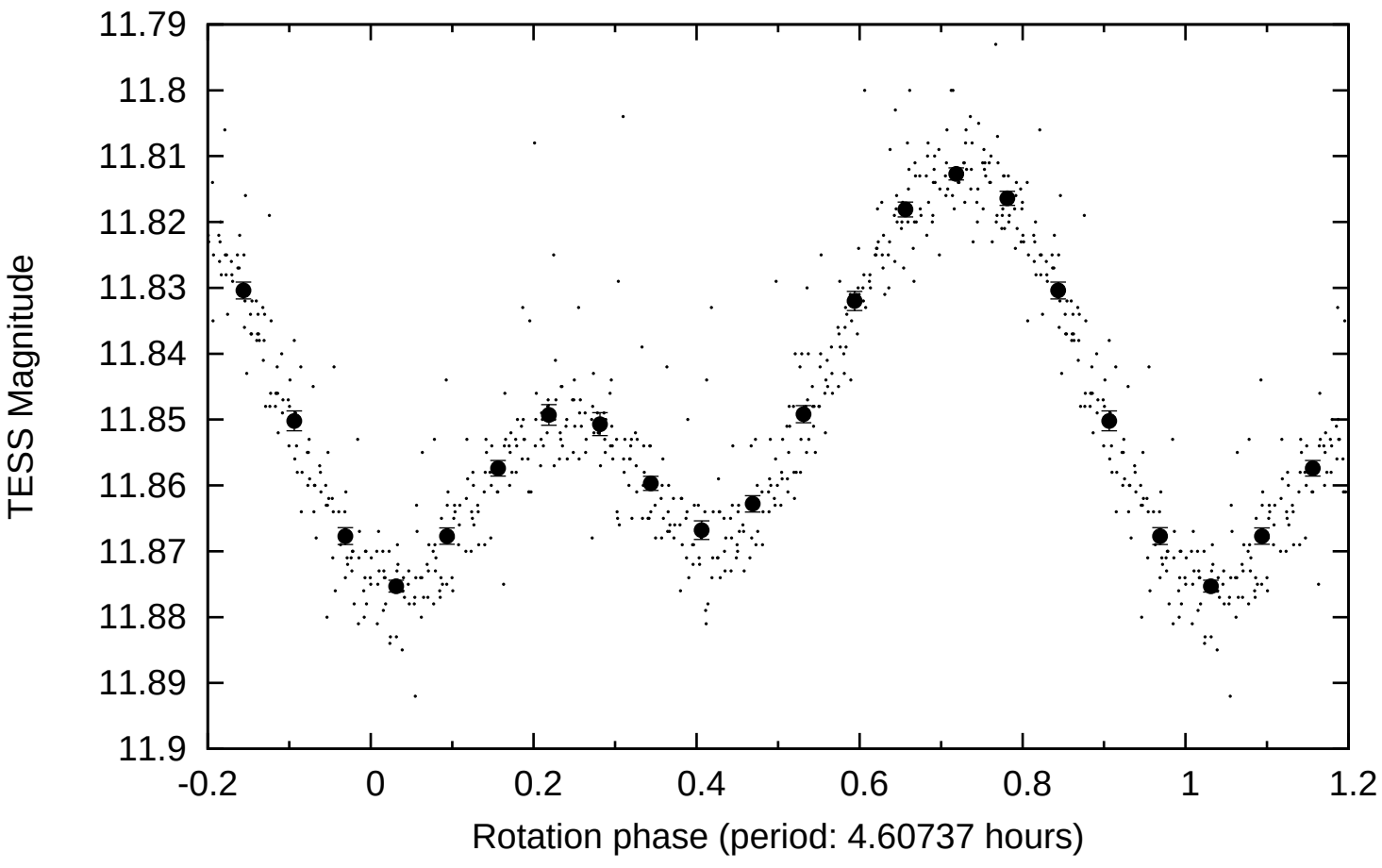

TESS Magnitude
11.9
12
12.1
12.2
12.3
12.4
12.5
-5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458505)

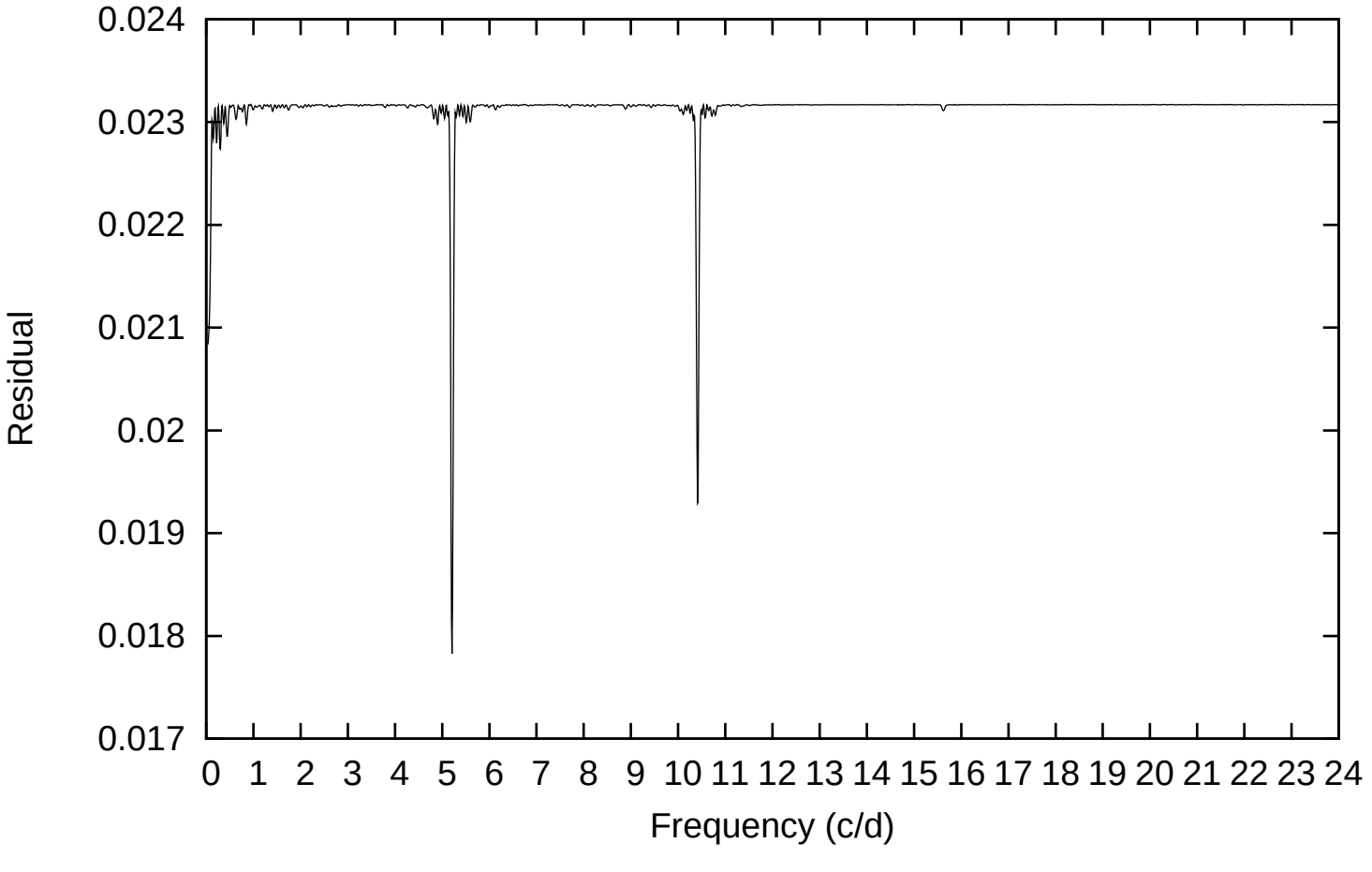

TESS Magnitude
11.95
12
12.05
12.1
12.15
12.2
12.25
12.3
12.35
12.4
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 13.6926 hours)


Residual
0.09
0.085
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 21 22 23 24
Frequency (c/d)

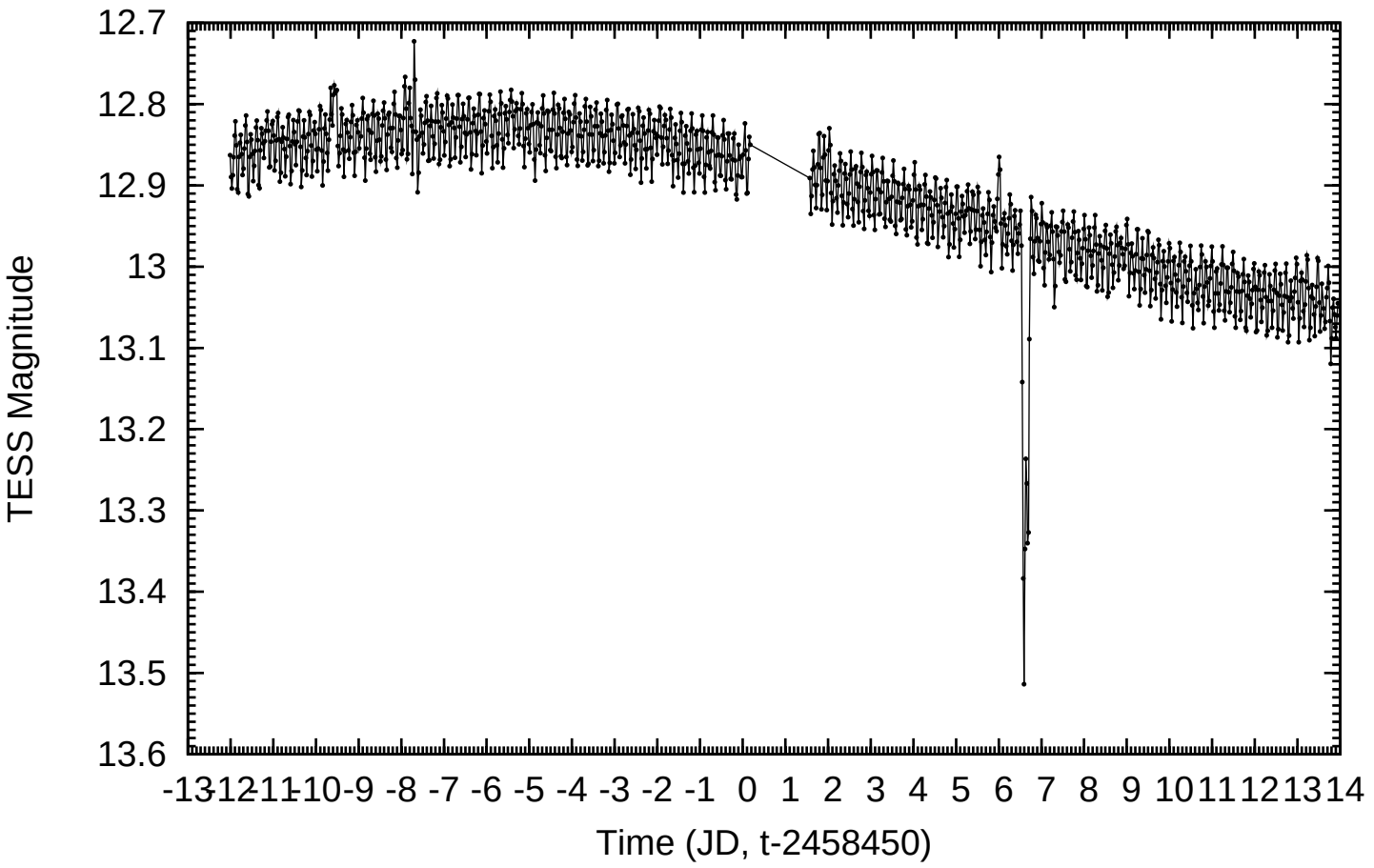
338

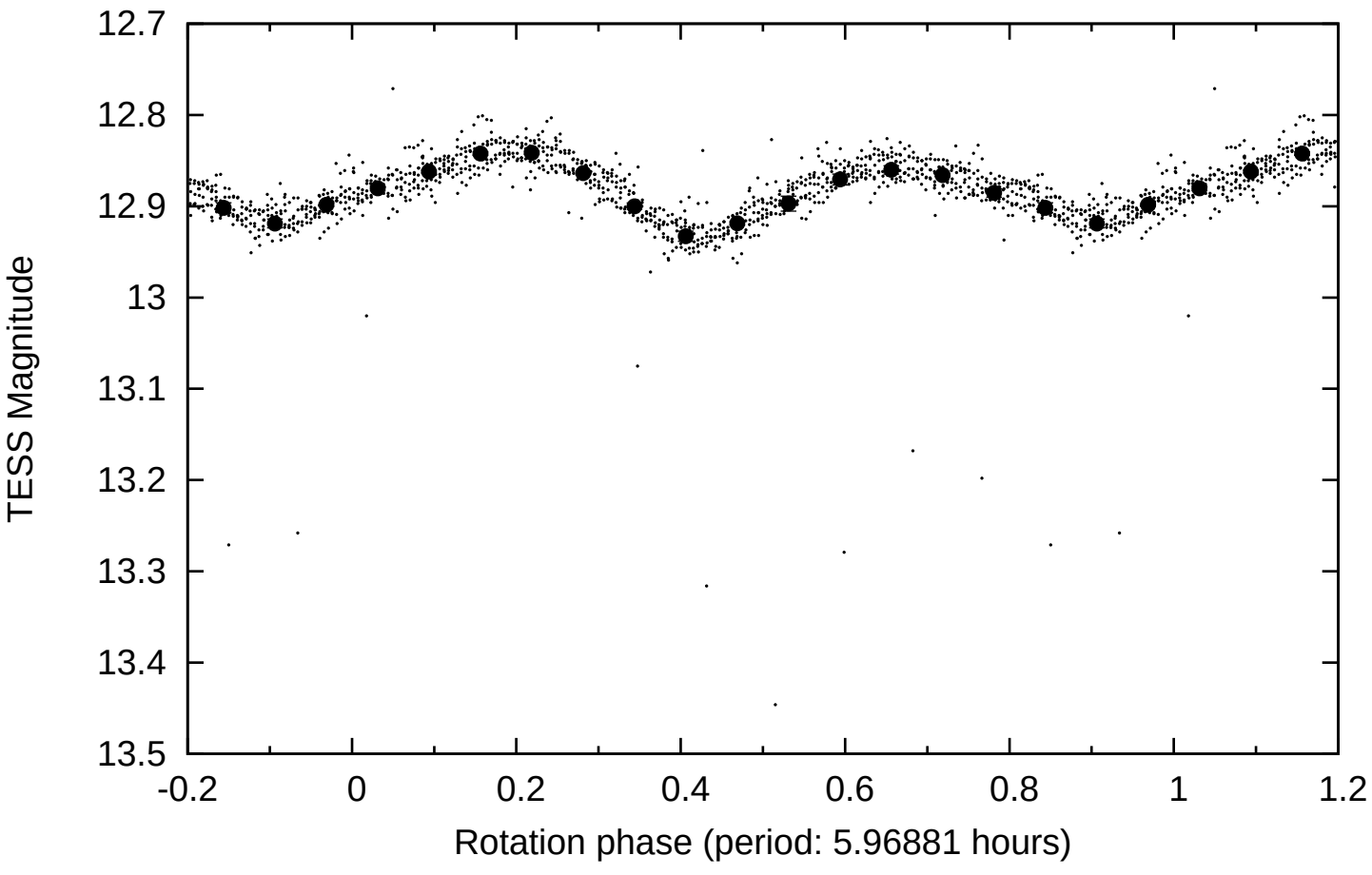

TESS Magnitude
11.7
11.8
11.9
12
-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

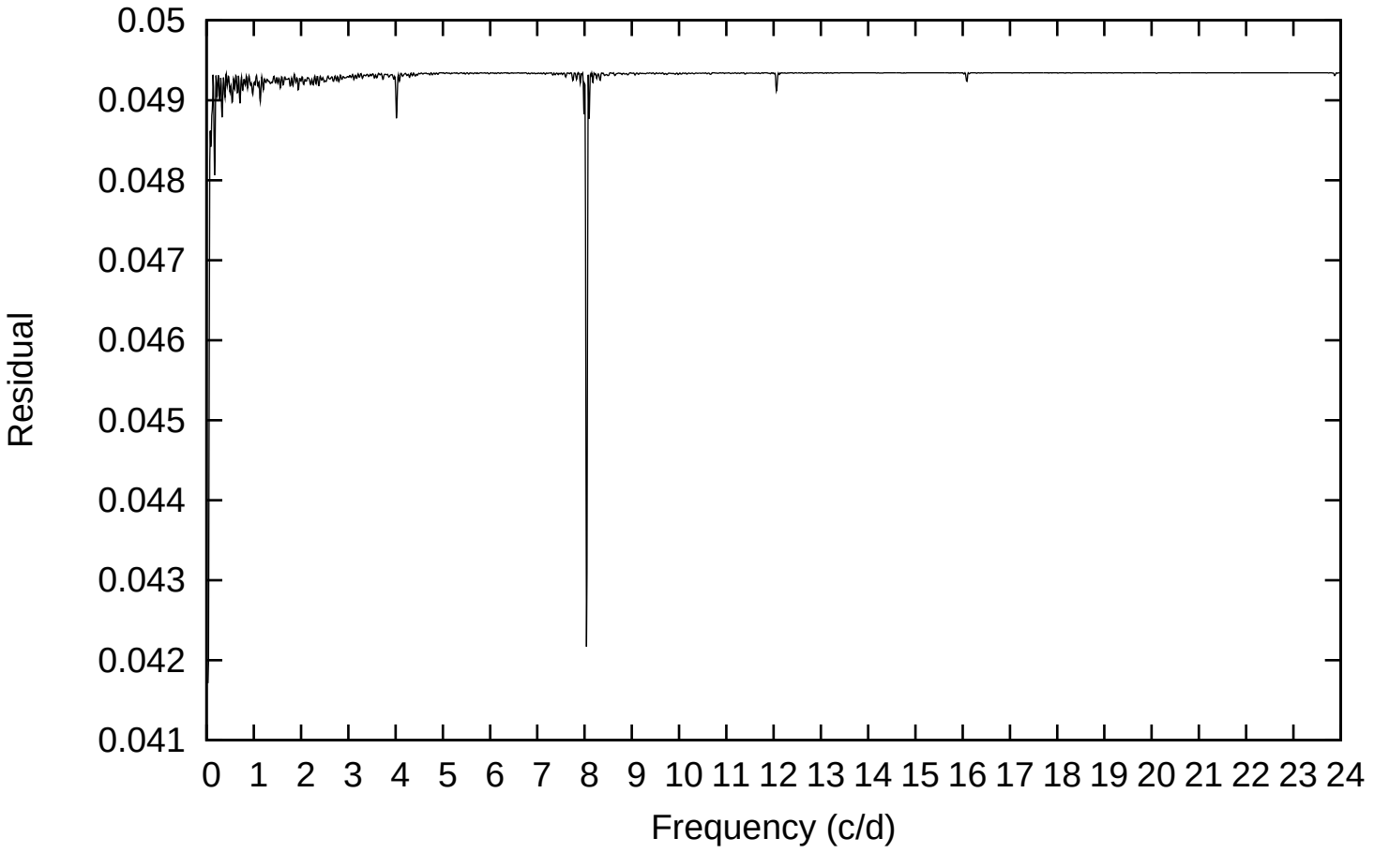

TESS Magnitude
11.79
11.8
11.81
11.82
11.83
11.84
11.85
11.86
11.87
11.88
11.89
11.9
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 4.60737 hours)


Residual
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

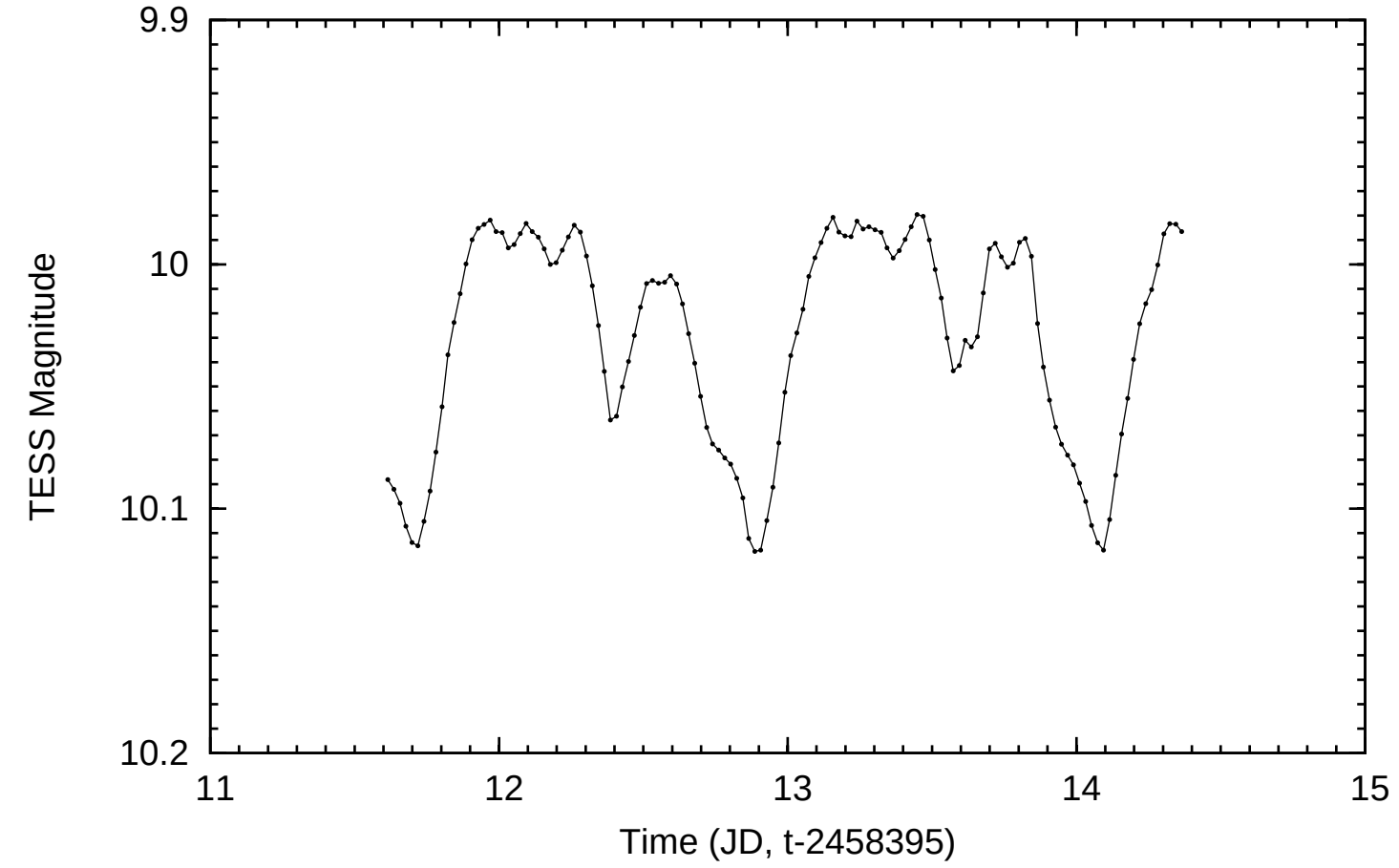
339

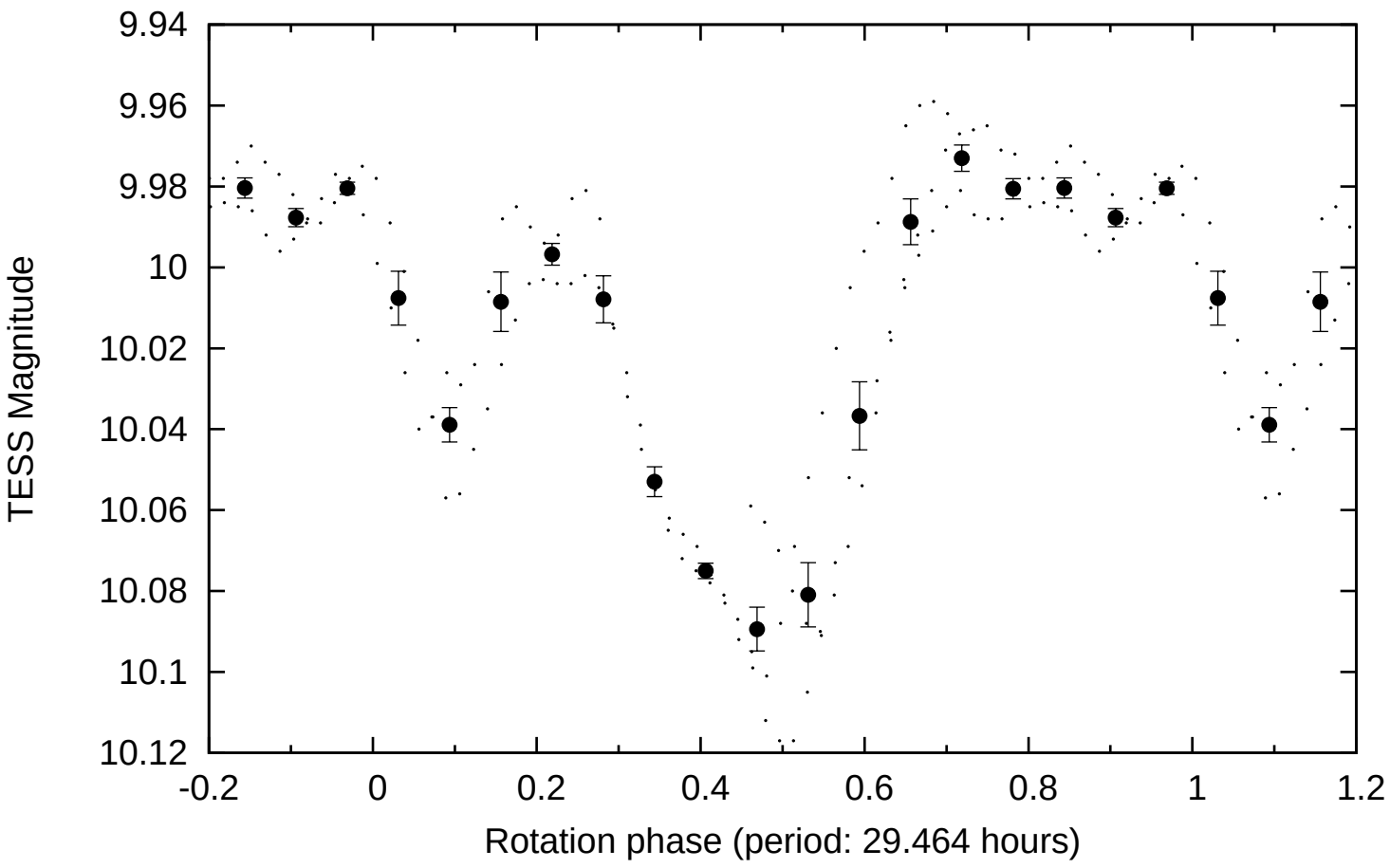

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458450)

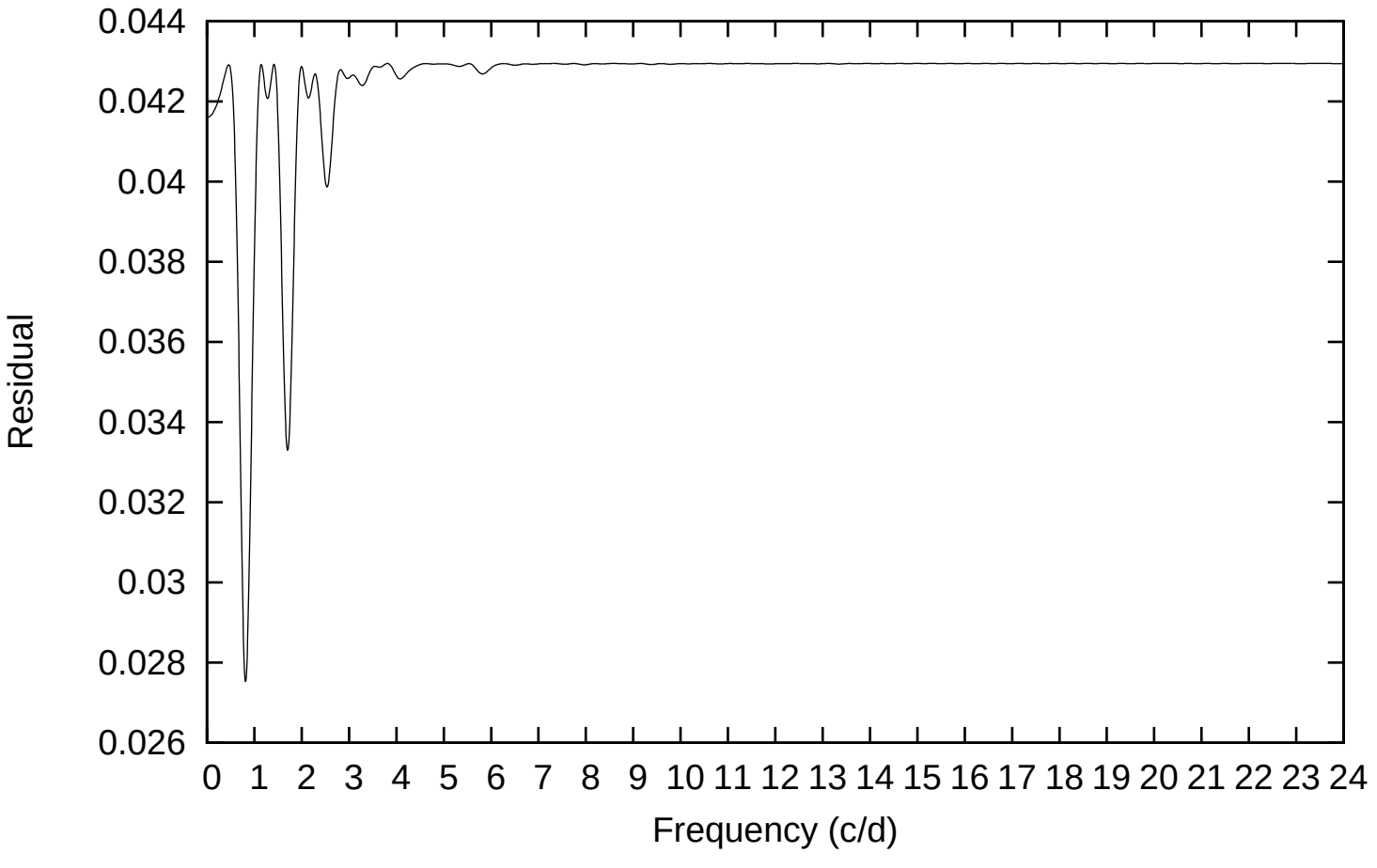

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 5.96881 hours)


Residual
0.05
0.049
0.048
0.047
0.046
0.045
0.044
0.043
0.042
0.041
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

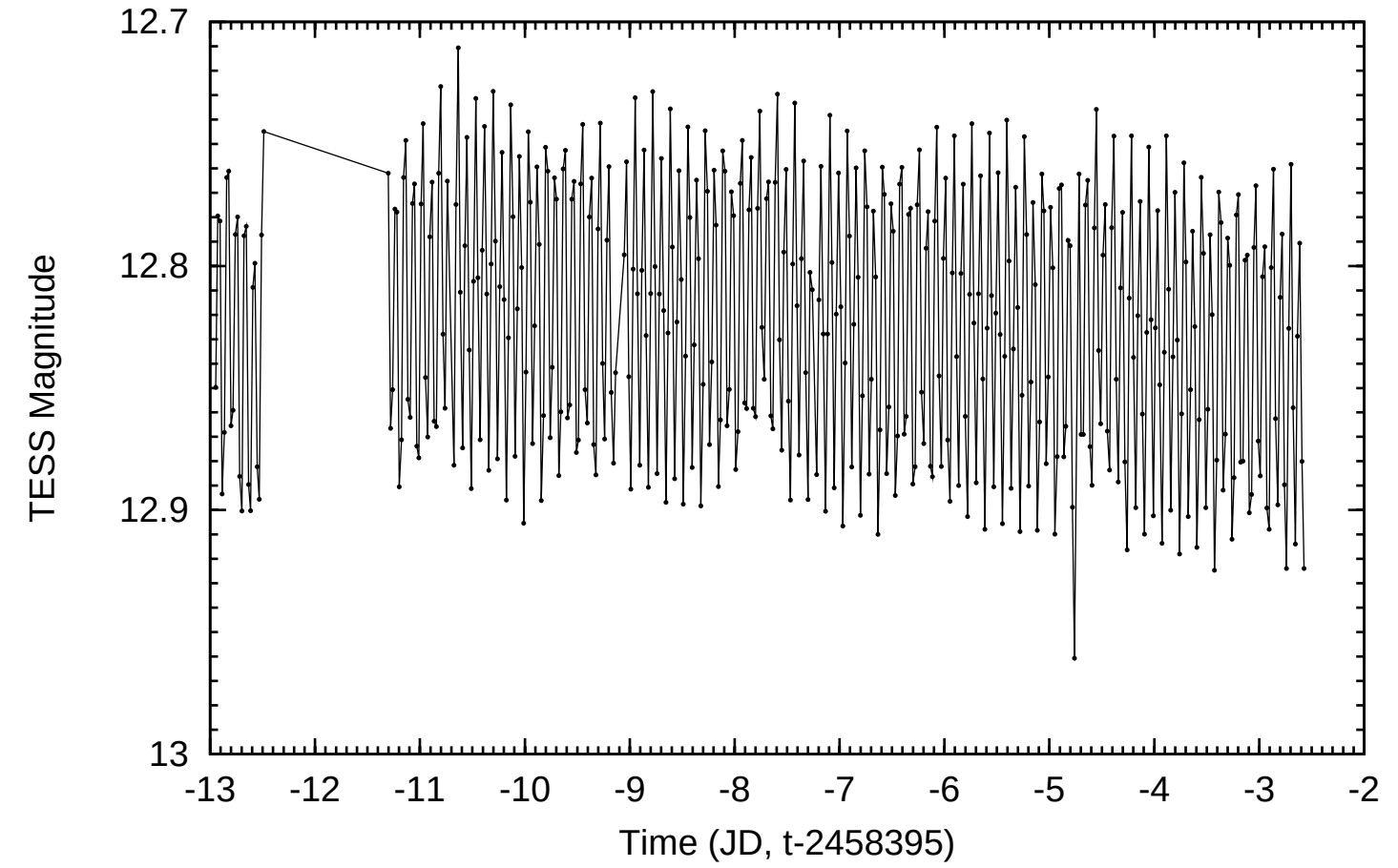
346

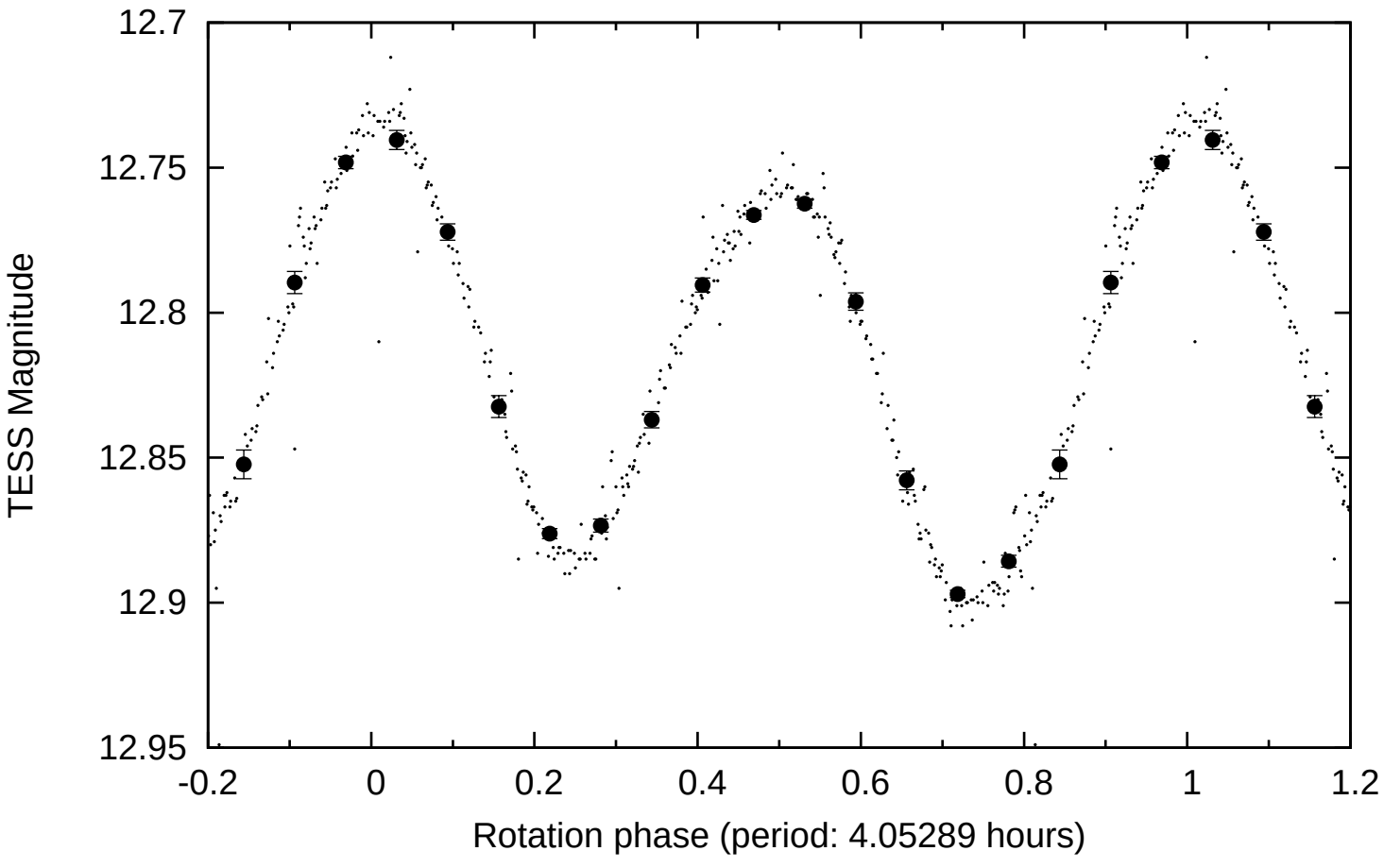

9.9
10
10.1
10.2
TESS Magnitude
11
12
13
14
15
Time (JD, t-2458395)

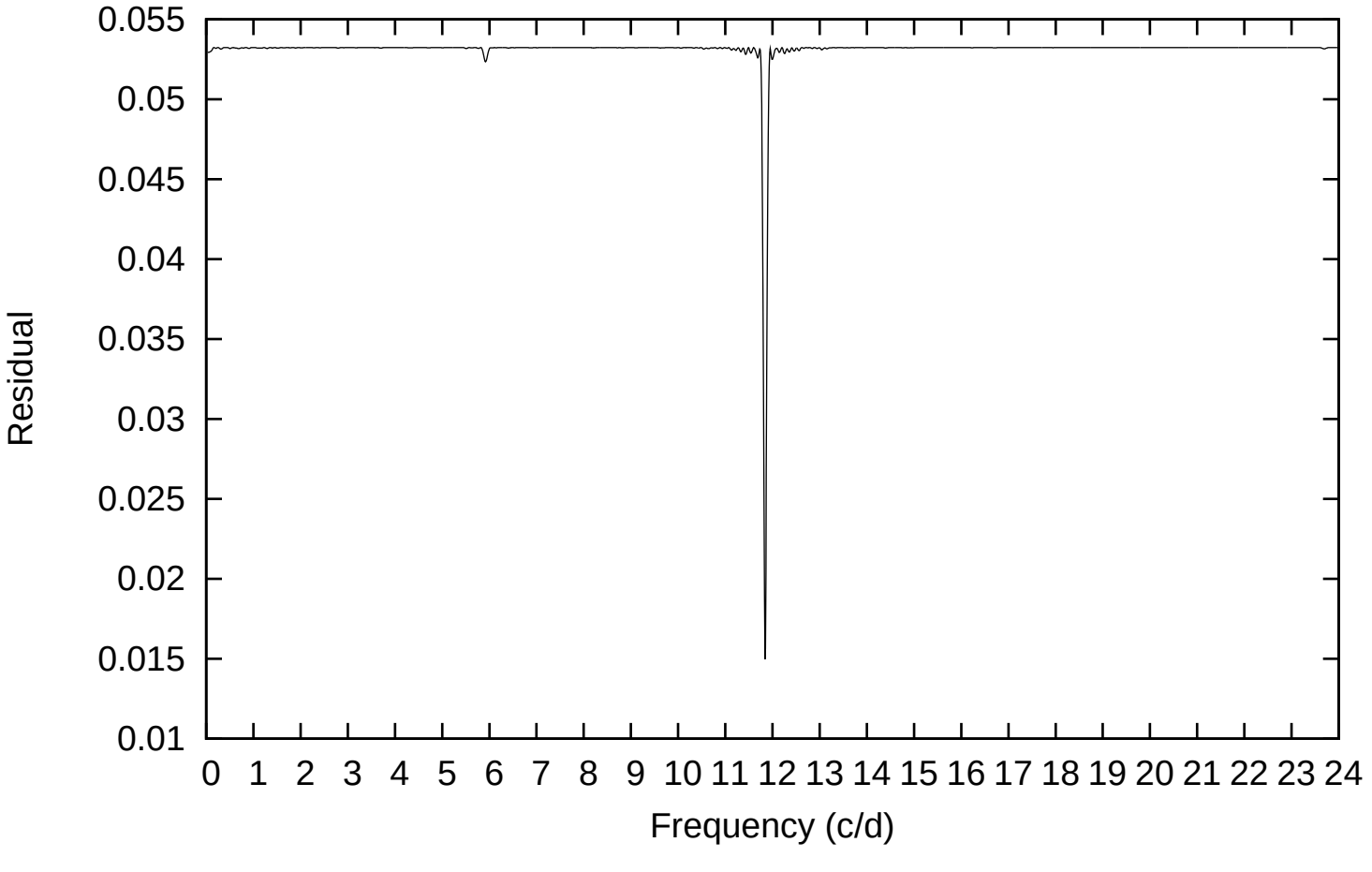

9.94
9.96
9.98
10
10.02
10.04
10.06
10.08
10.1
10.12
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 29.464 hours)


0.044
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

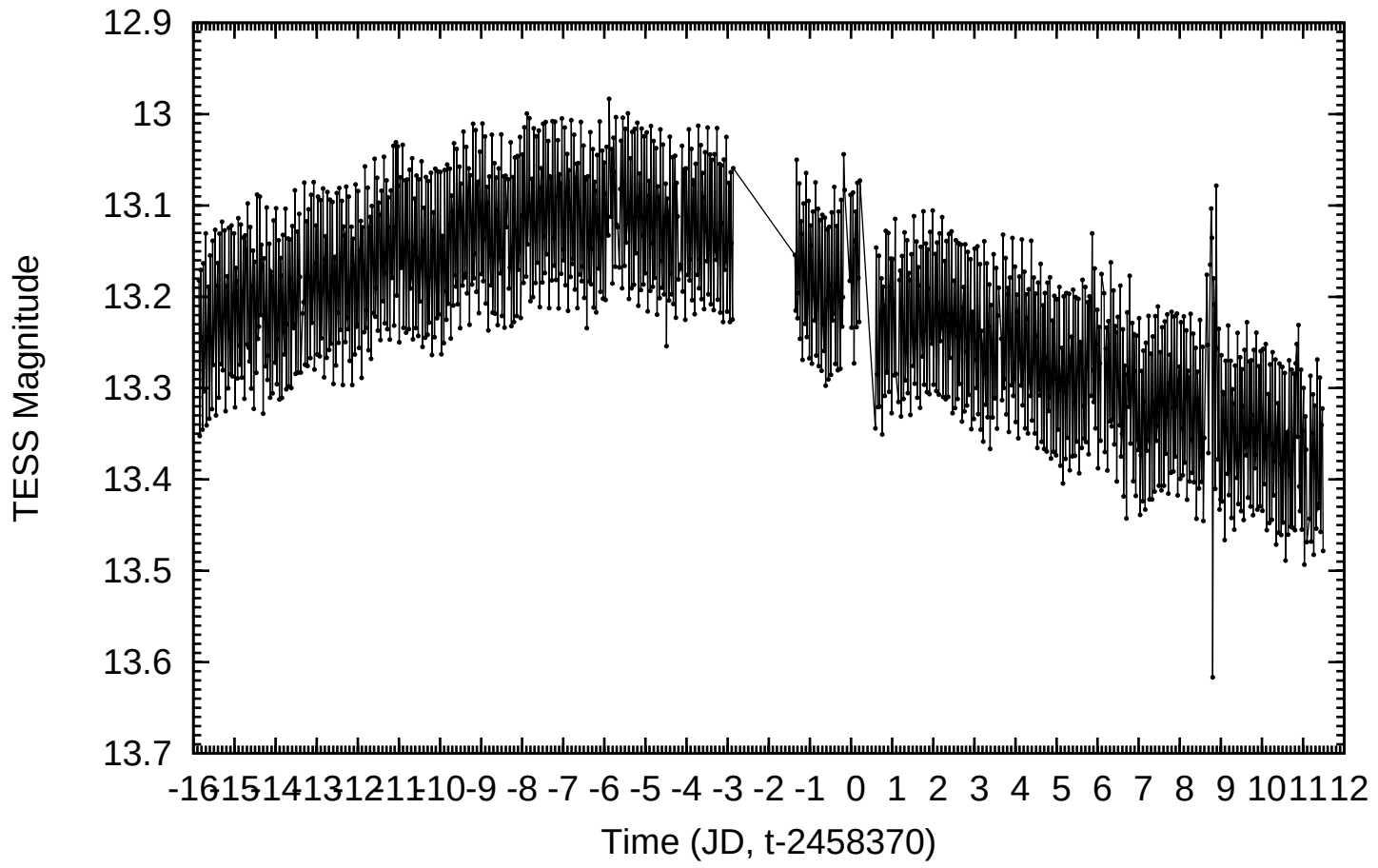
347

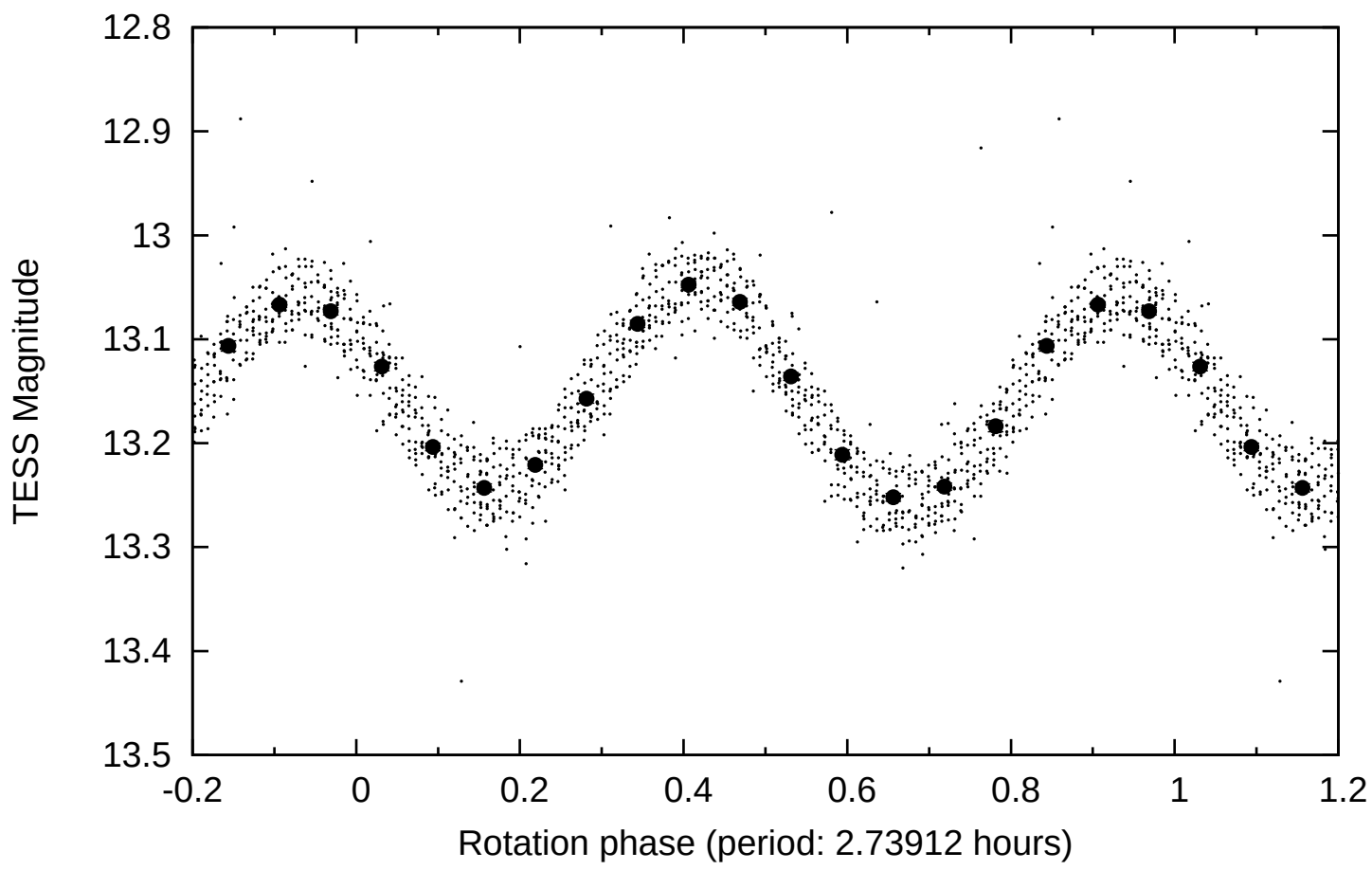

12.7
12.8
12.9
13
TESS Magnitude
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
Time (JD, t-2458395)

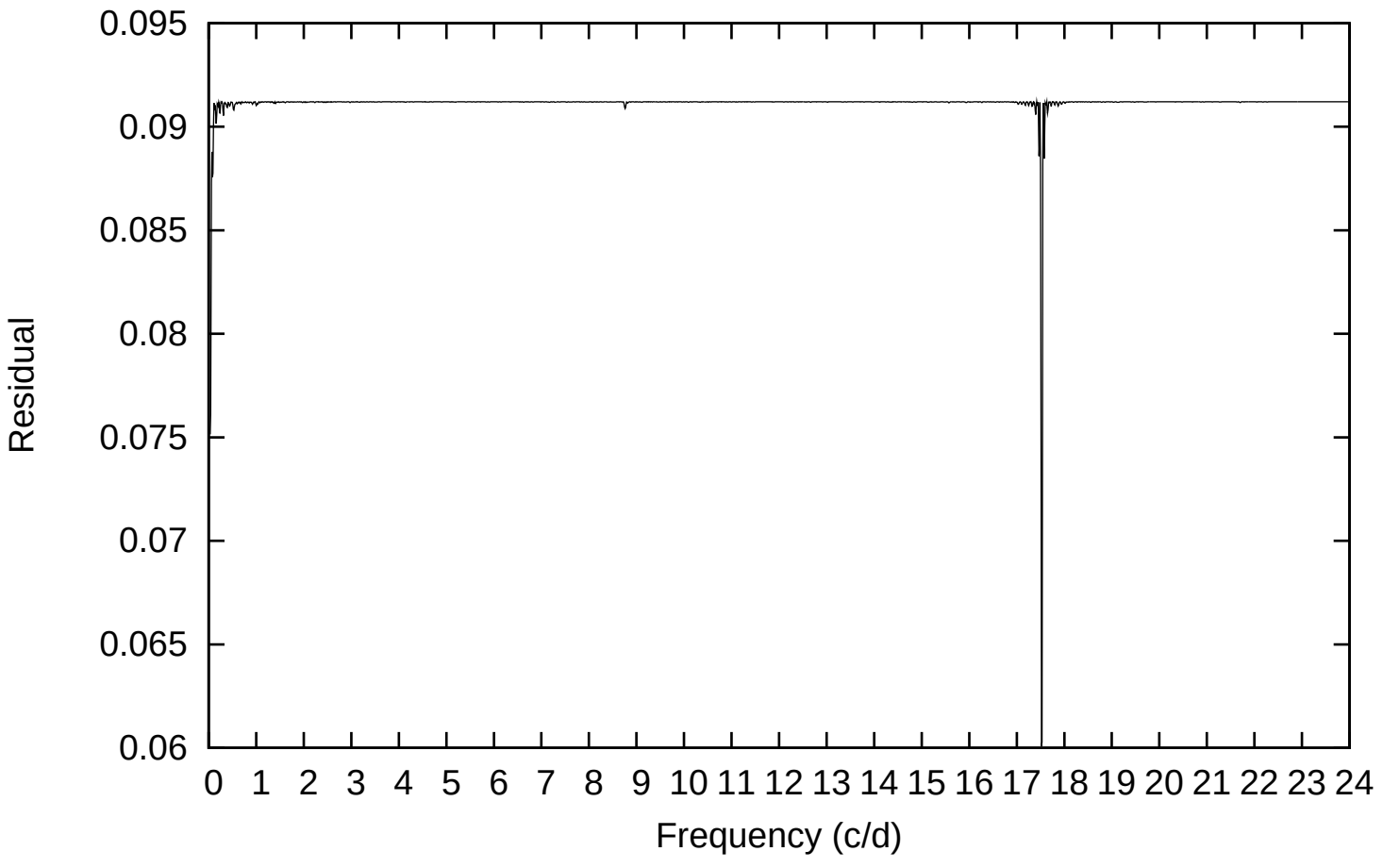

12.7
12.75
12.8
12.85
12.9
12.95
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 4.05289 hours)


0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

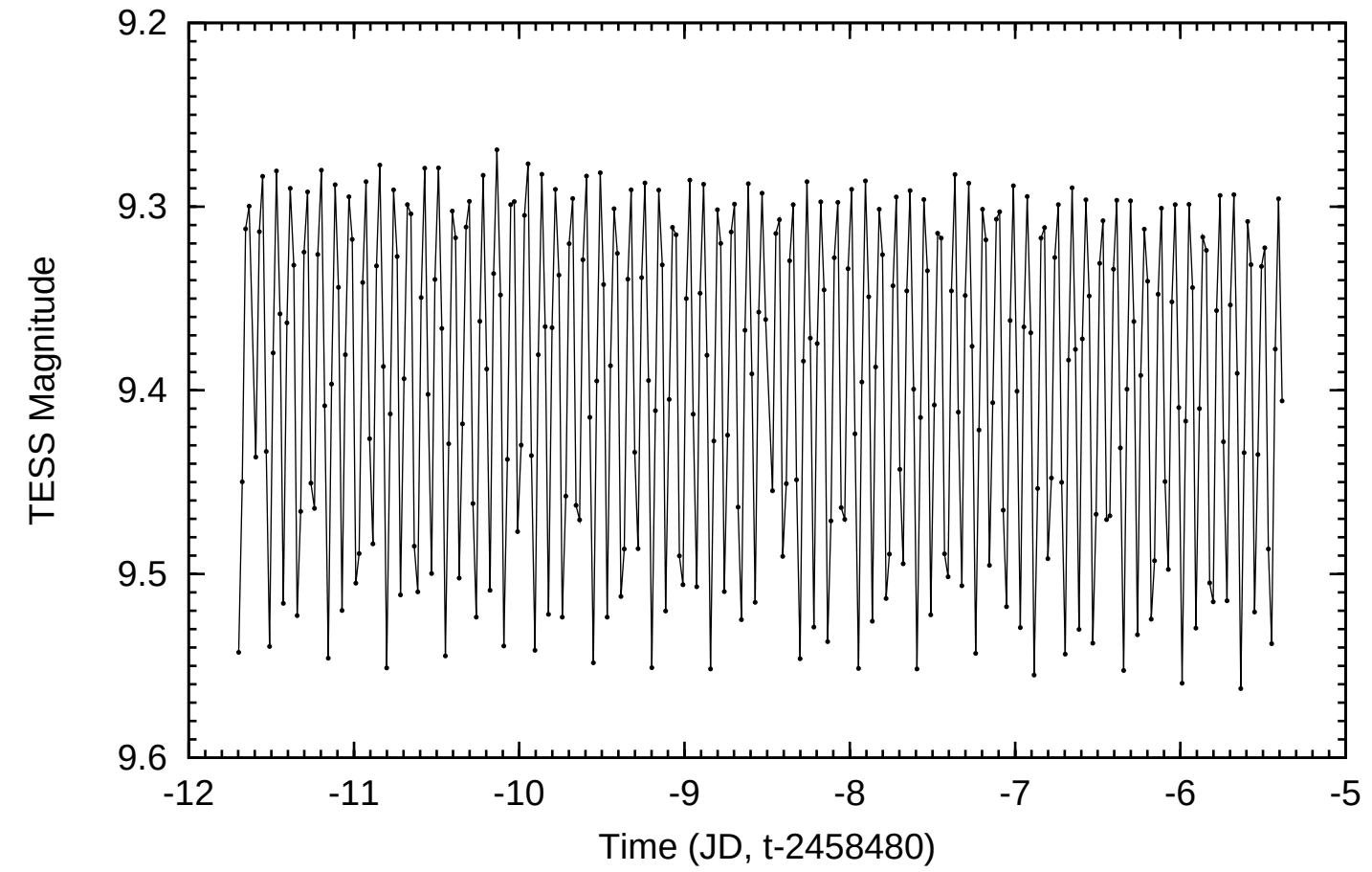
353

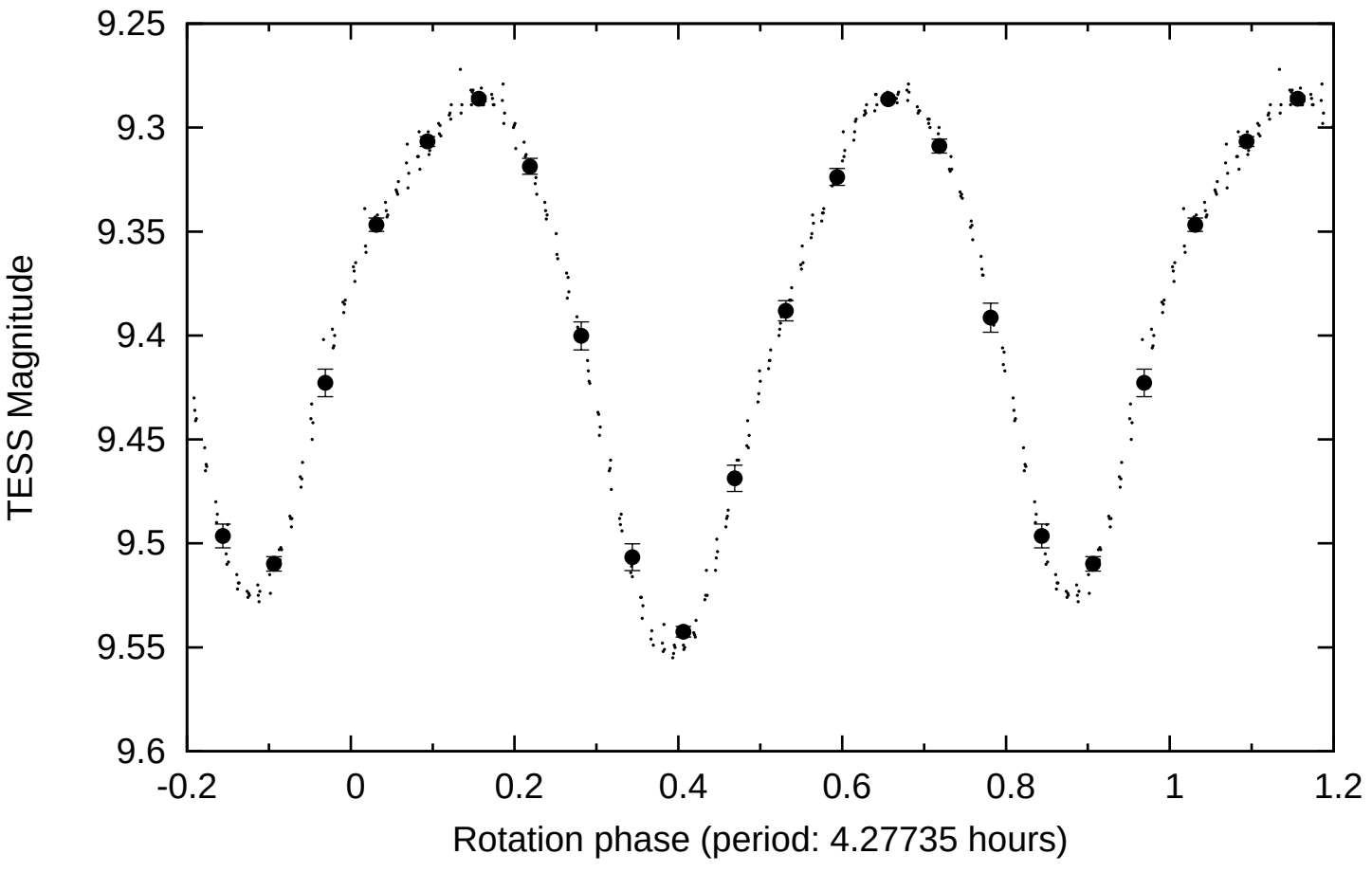

TESS Magnitude
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458370)

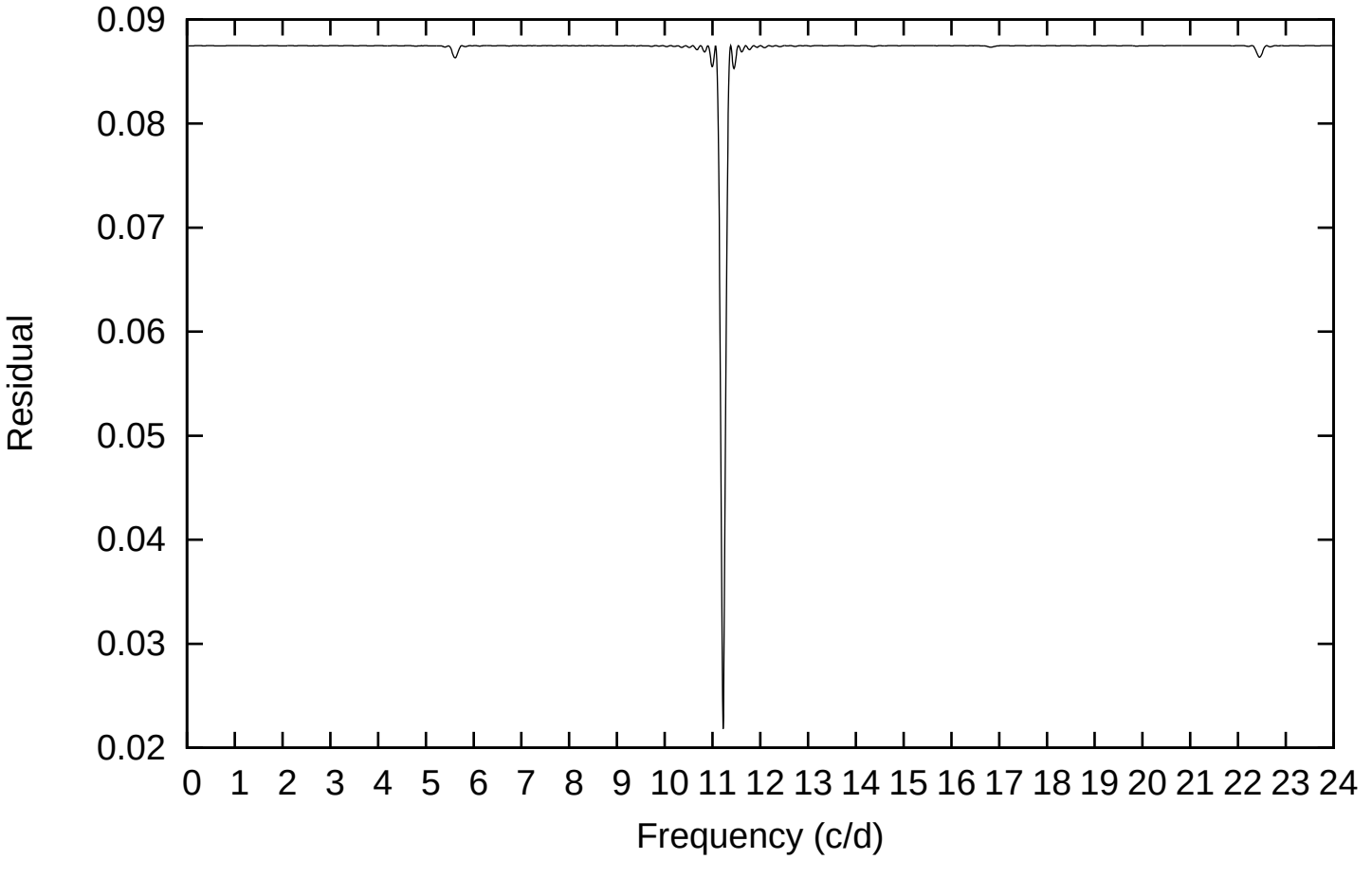

TESS Magnitude
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 2.73912 hours)


Residual
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

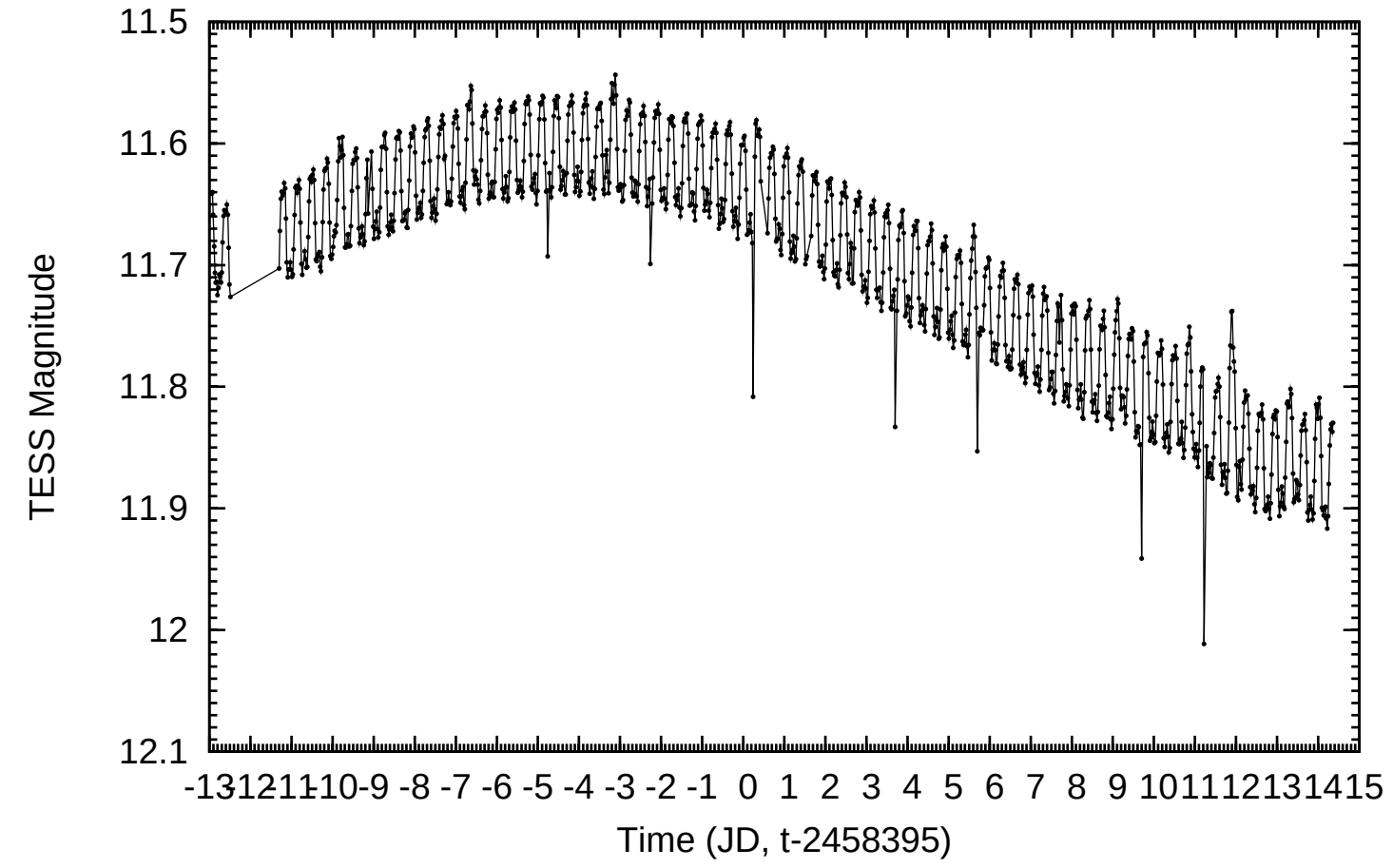
354

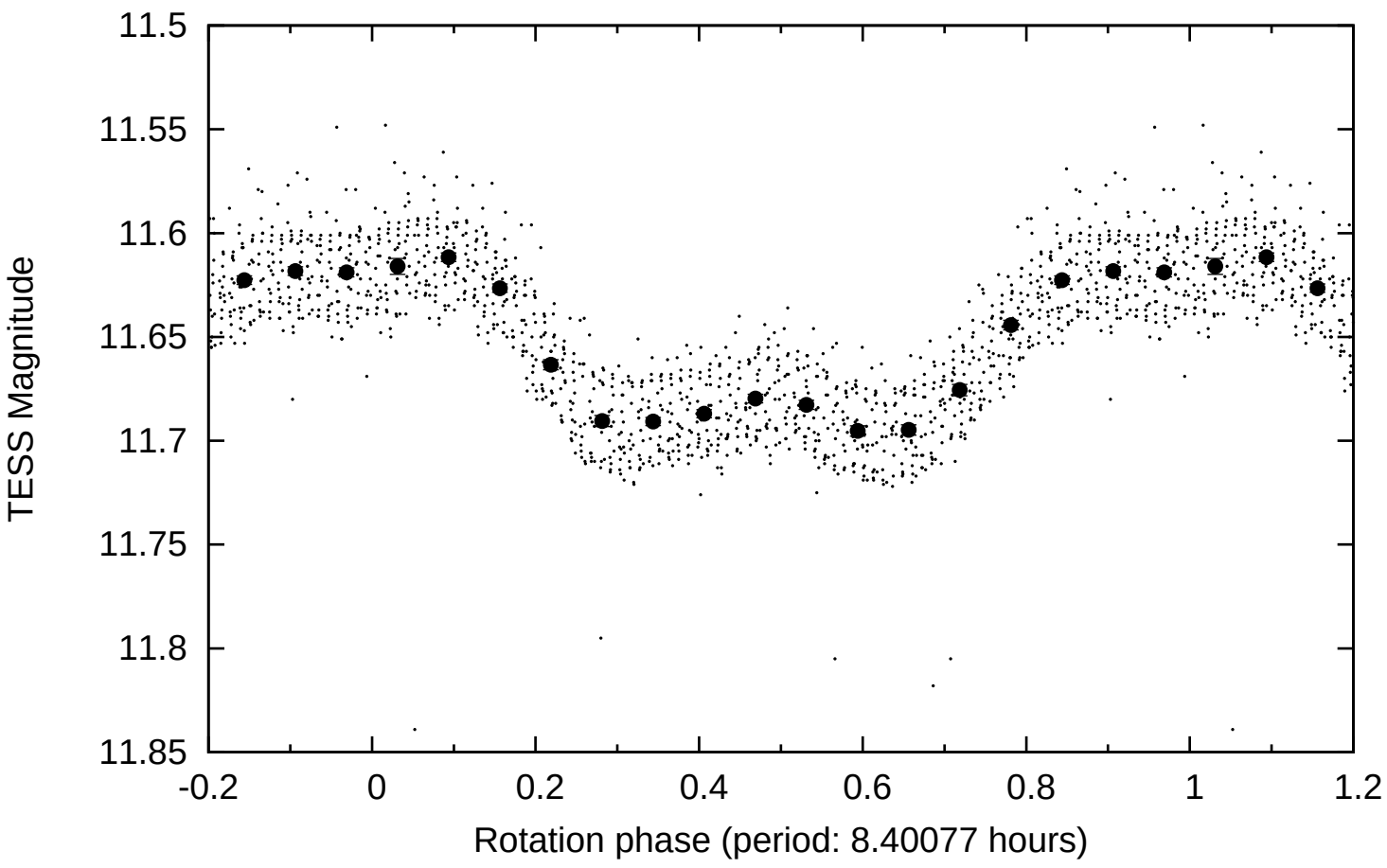

9.2
9.3
9.4
9.5
9.6
TESS Magnitude
-12
-11
-10
-9
-8
-7
-6
-5
Time (JD, t-2458480)

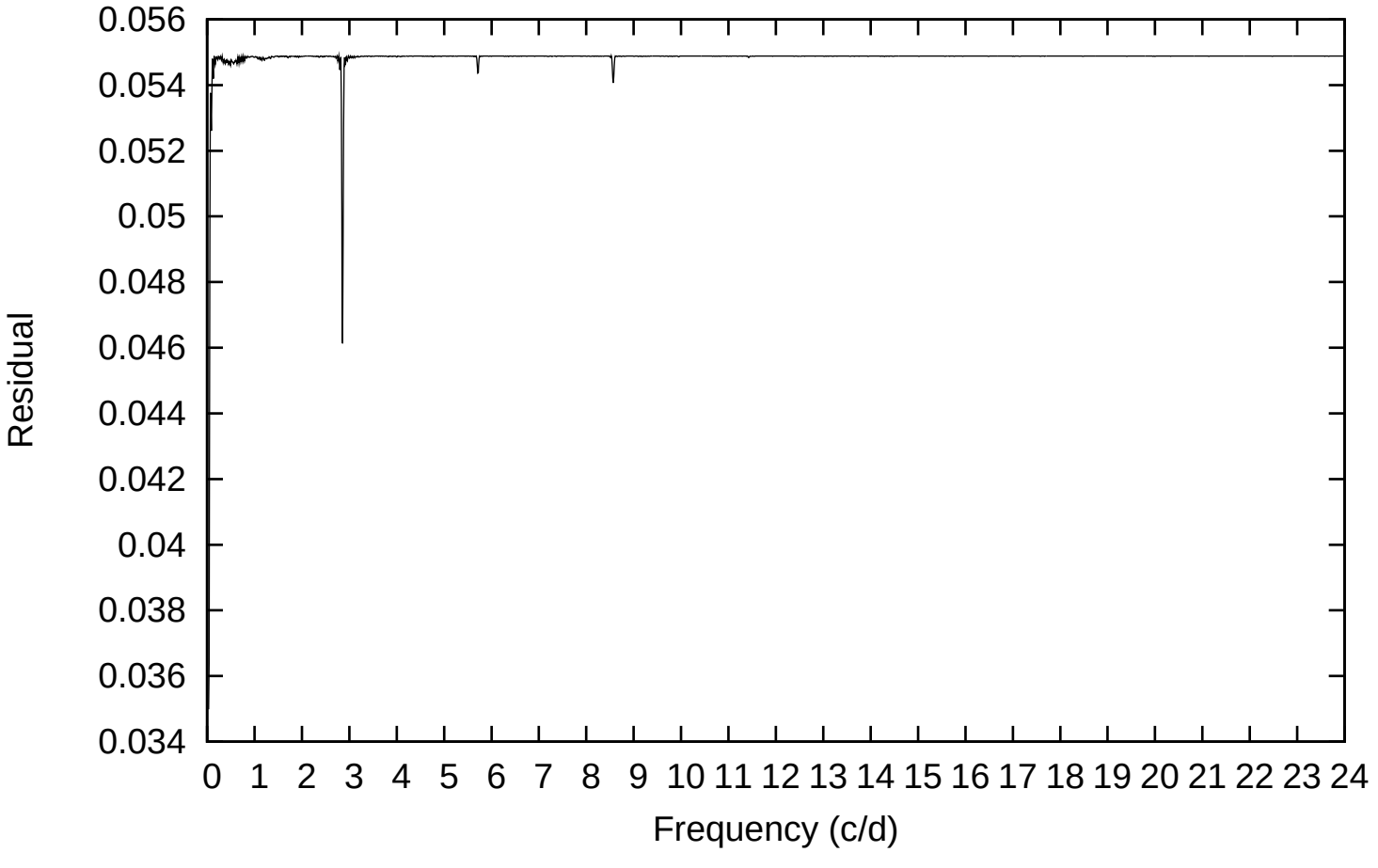

9.25
9.3
9.35
9.4
9.45
9.5
9.55
9.6
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 4.27735 hours)


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 21 22 23 24
Frequency (c/d)

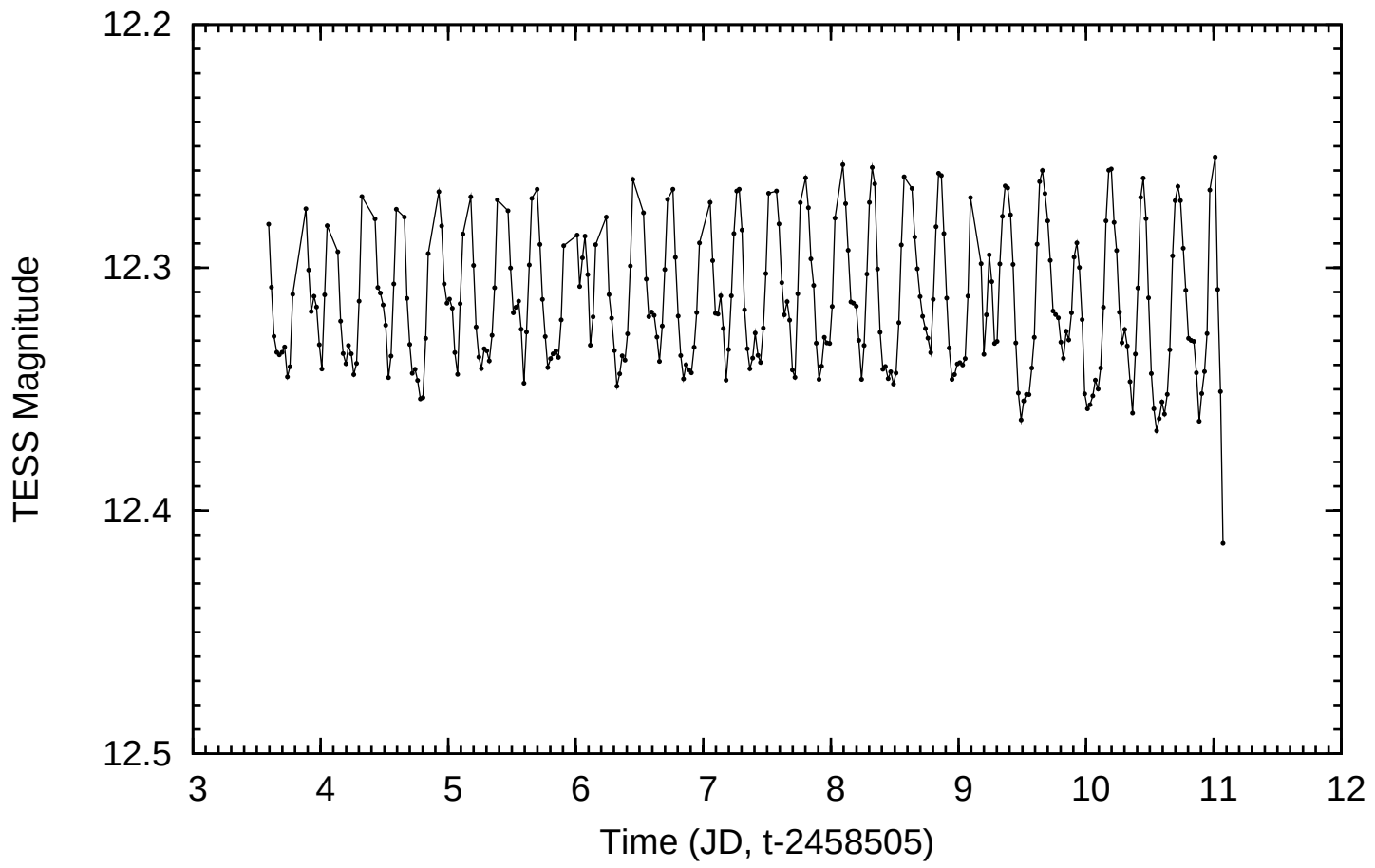
363

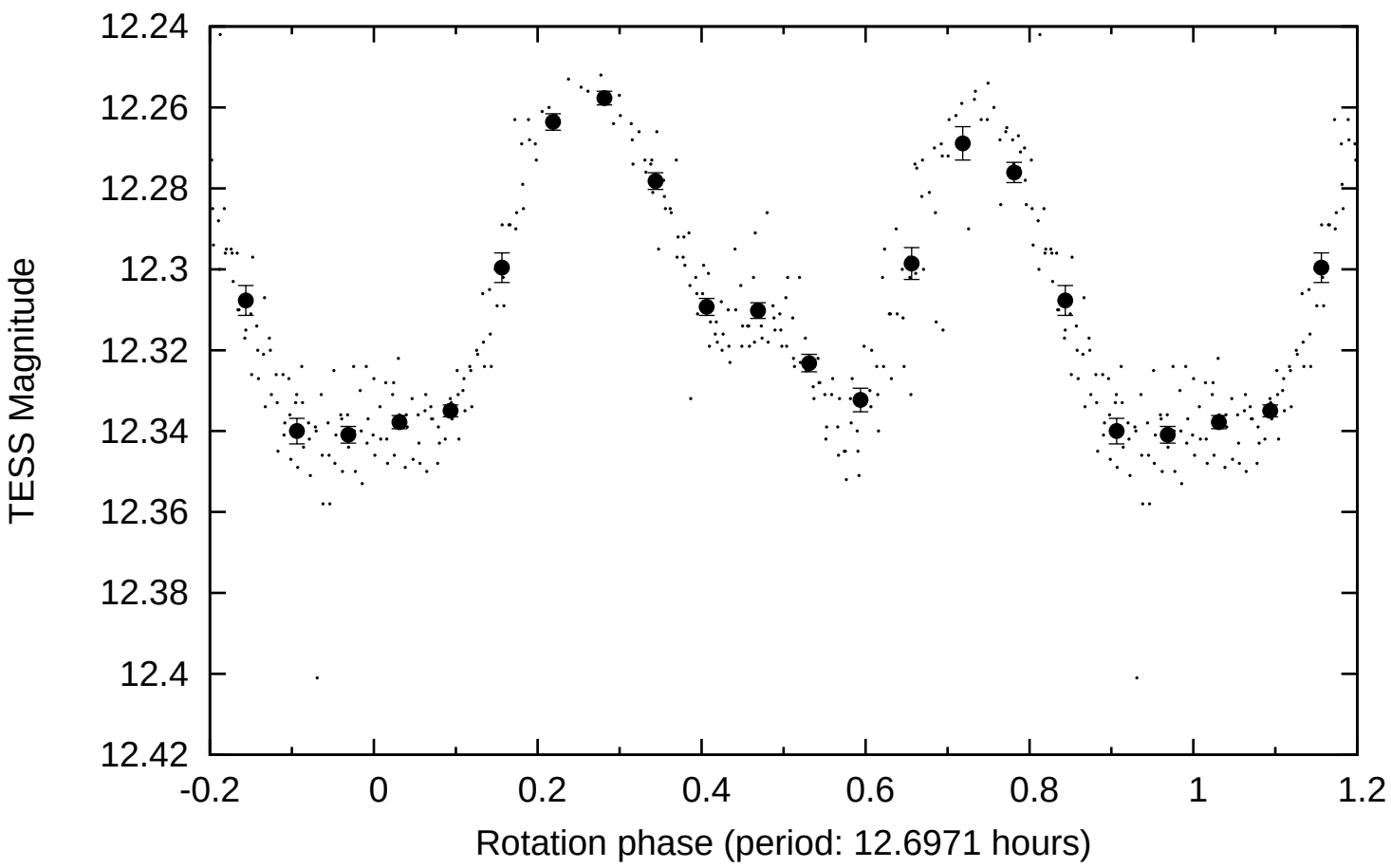

TESS Magnitude
11.5
11.6
11.7
11.8
11.9
12
12.1
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Time (JD, t-2458395)

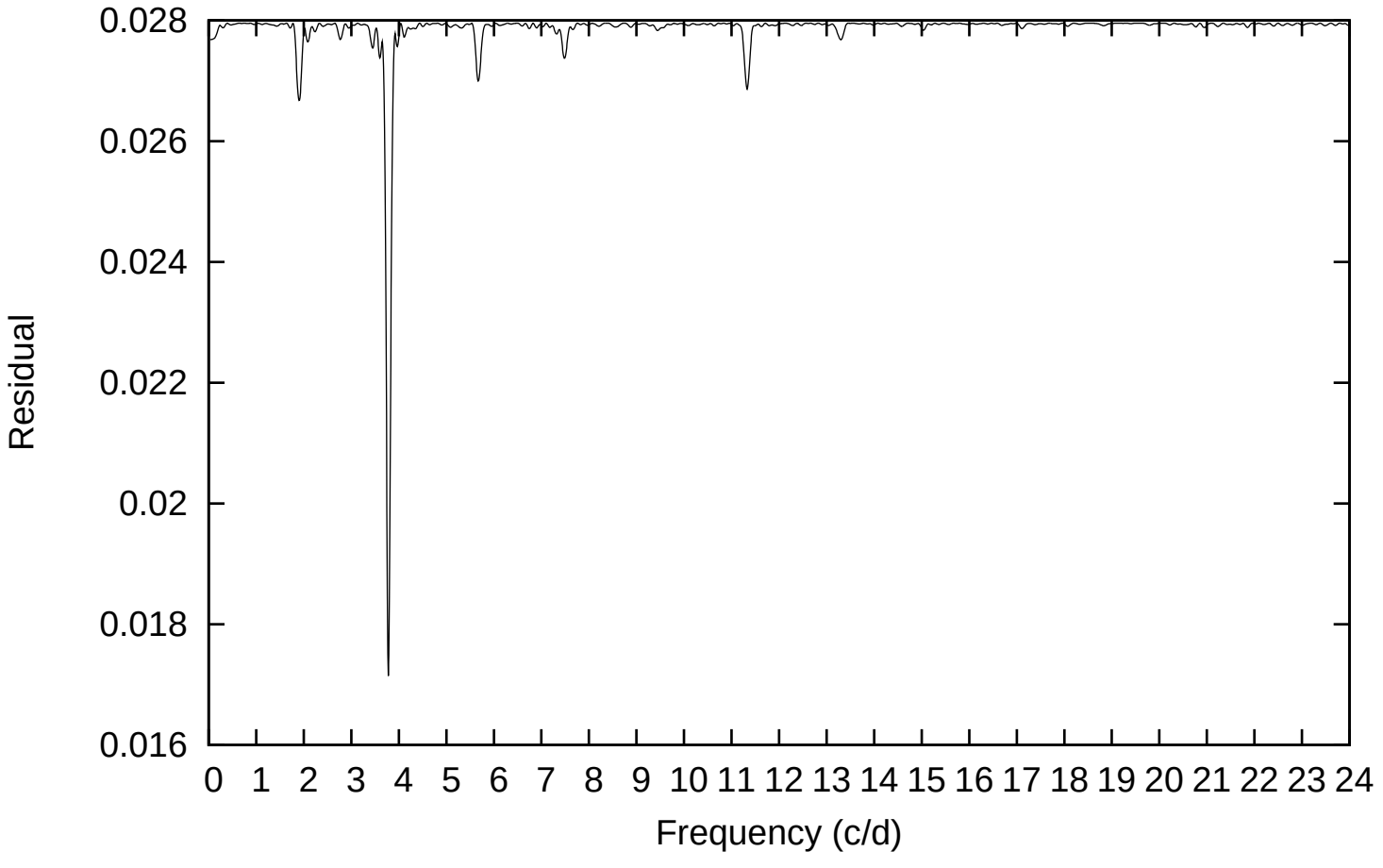

TESS Magnitude
11.5
11.55
11.6
11.65
11.7
11.75
11.8
11.85
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.40077 hours)


Residual
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

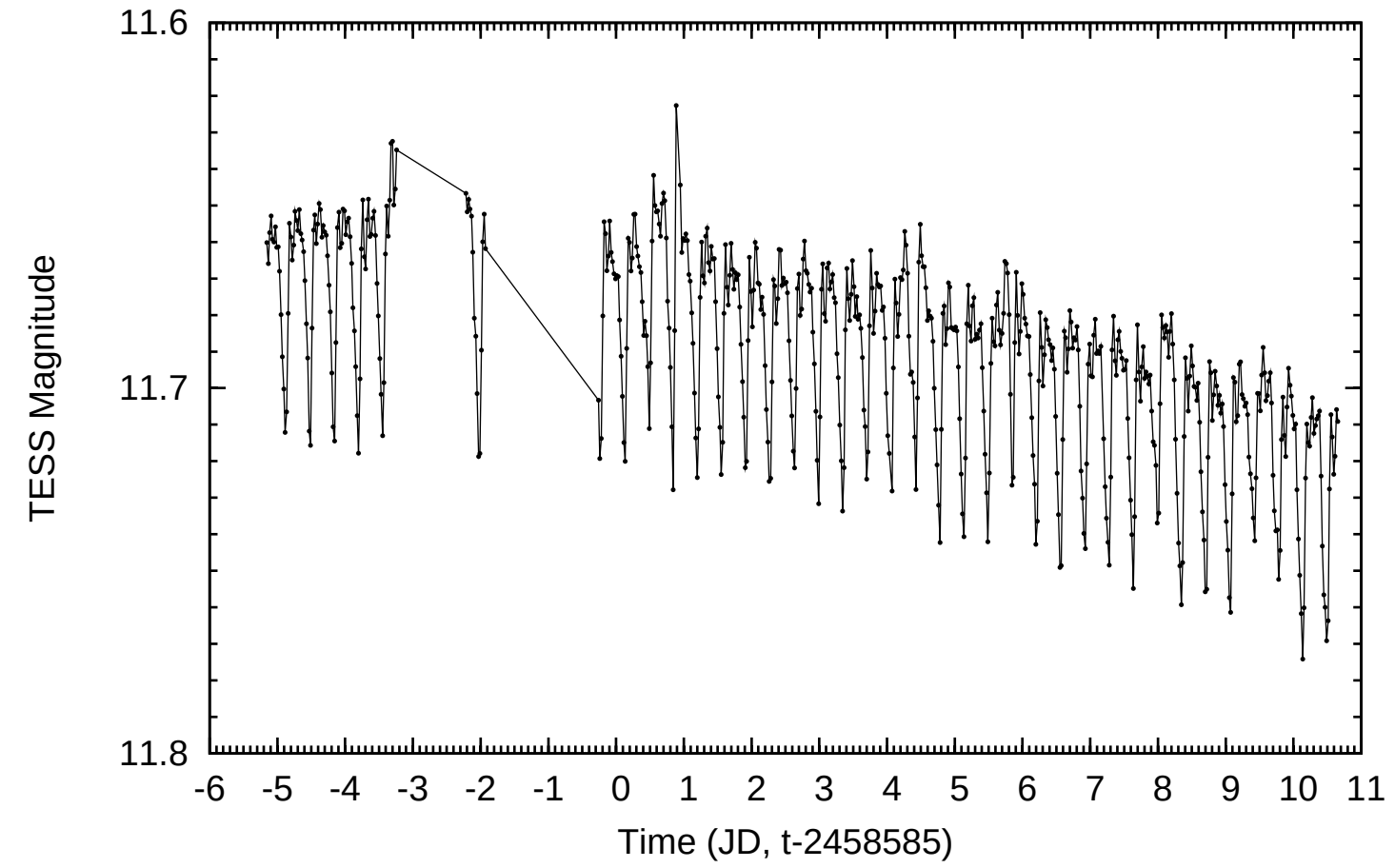
365

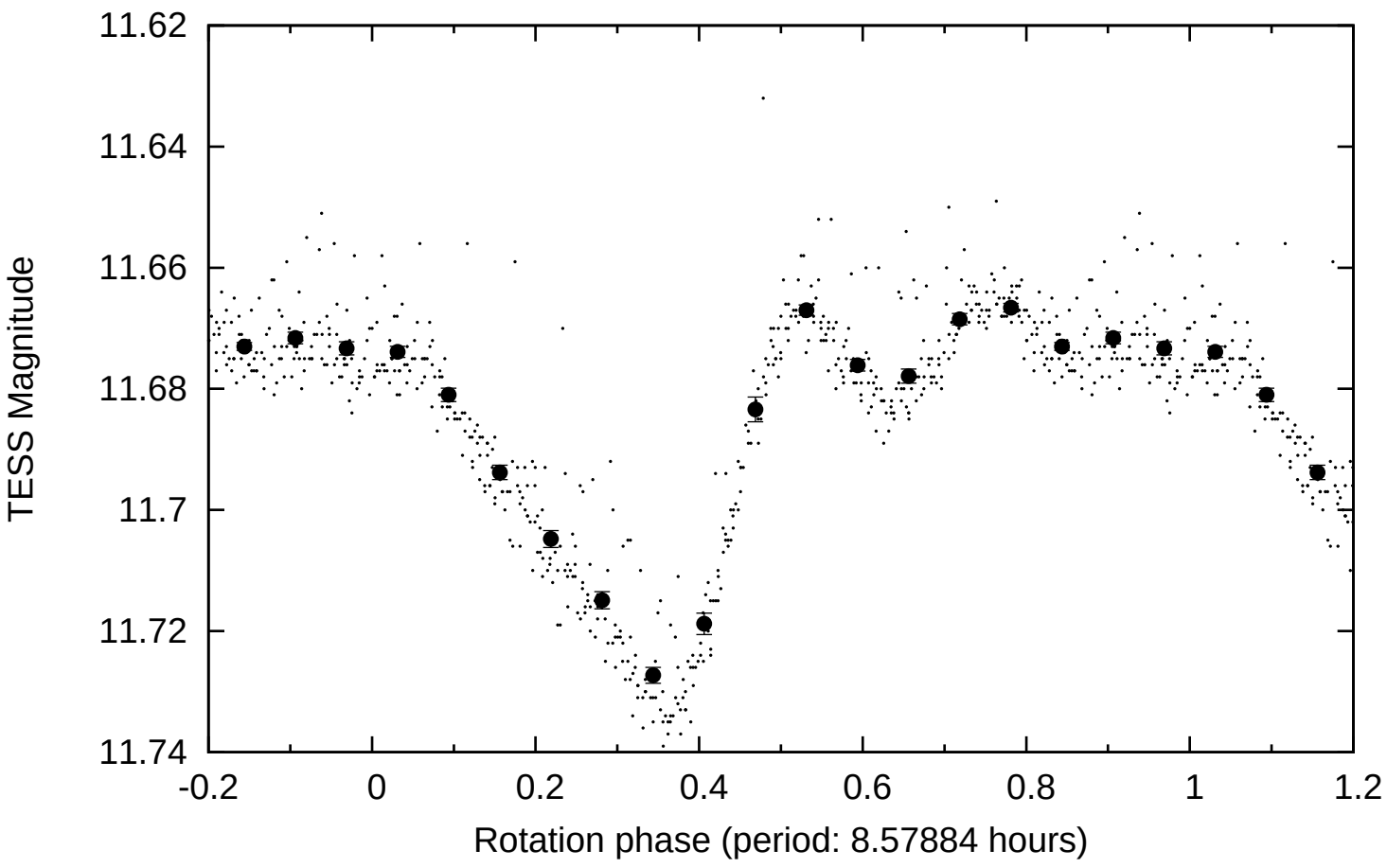

12.2
12.3
12.4
12.5
TESS Magnitude
3
4
5
6
7
8
9
10
11
12
Time (JD, t-2458505)

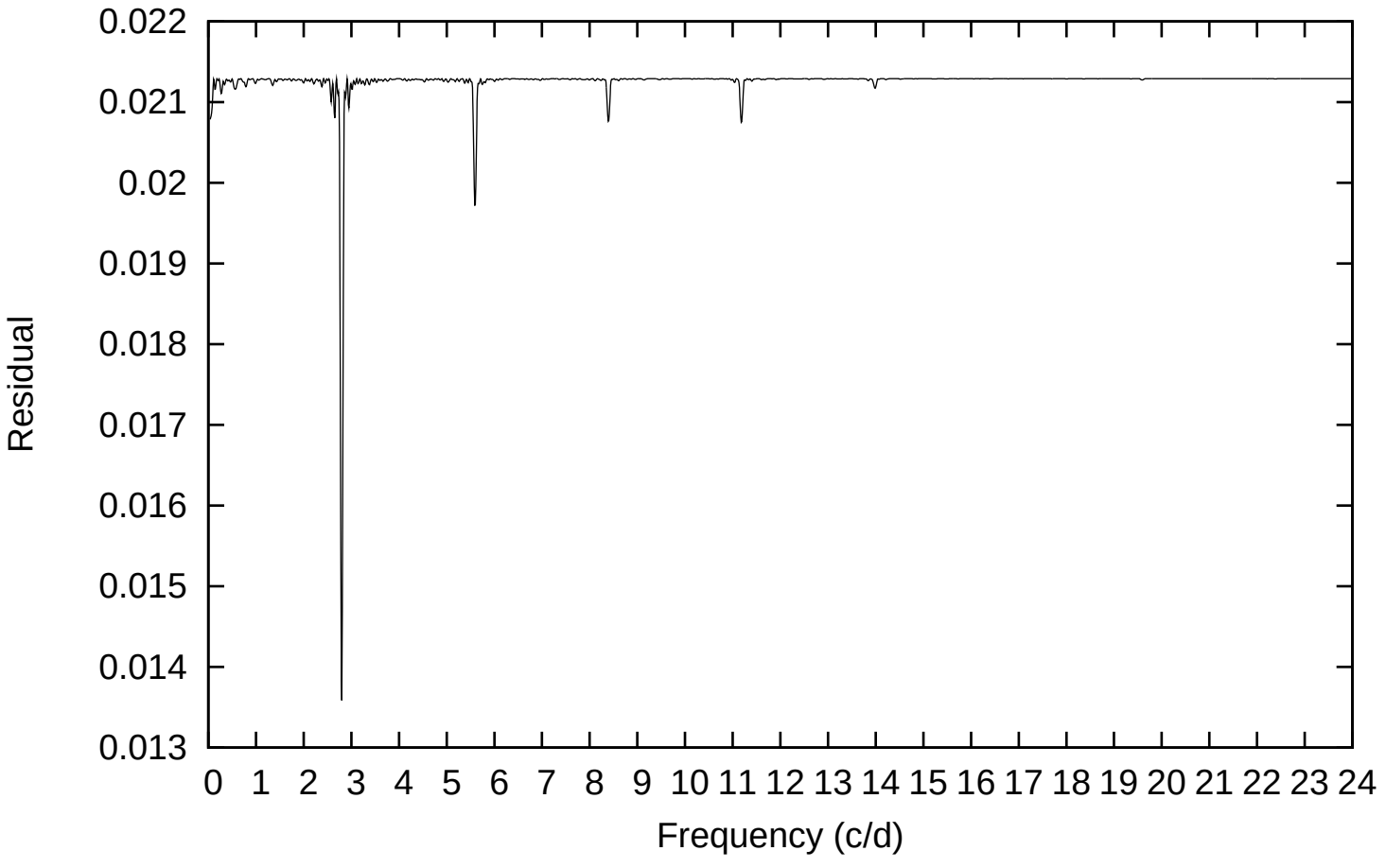

12.24
12.26
12.28
12.3
12.32
12.34
12.36
12.38
12.4
12.42
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 12.6971 hours)


0.028
0.026
0.024
0.022
0.02
0.018
0.016
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

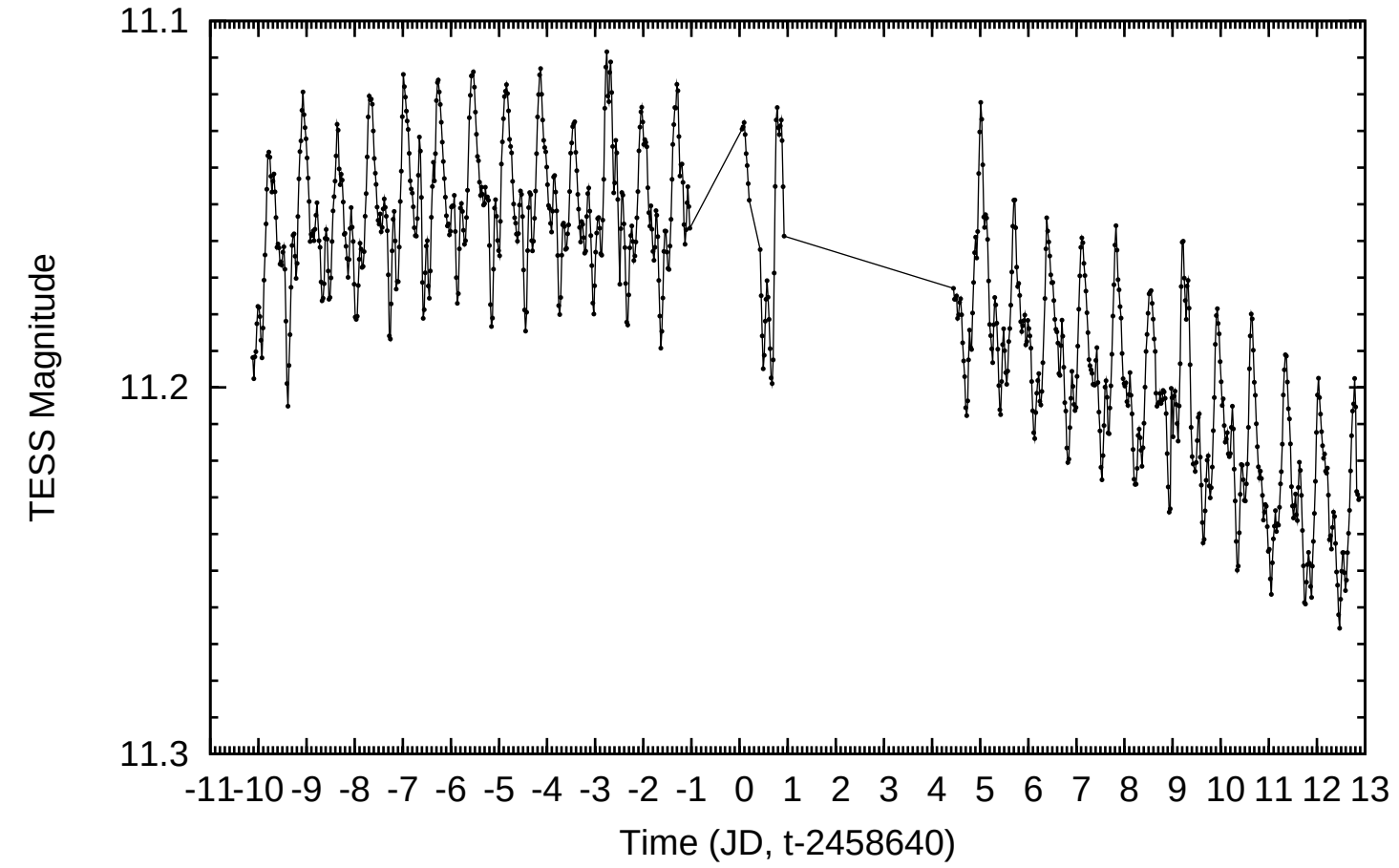
372

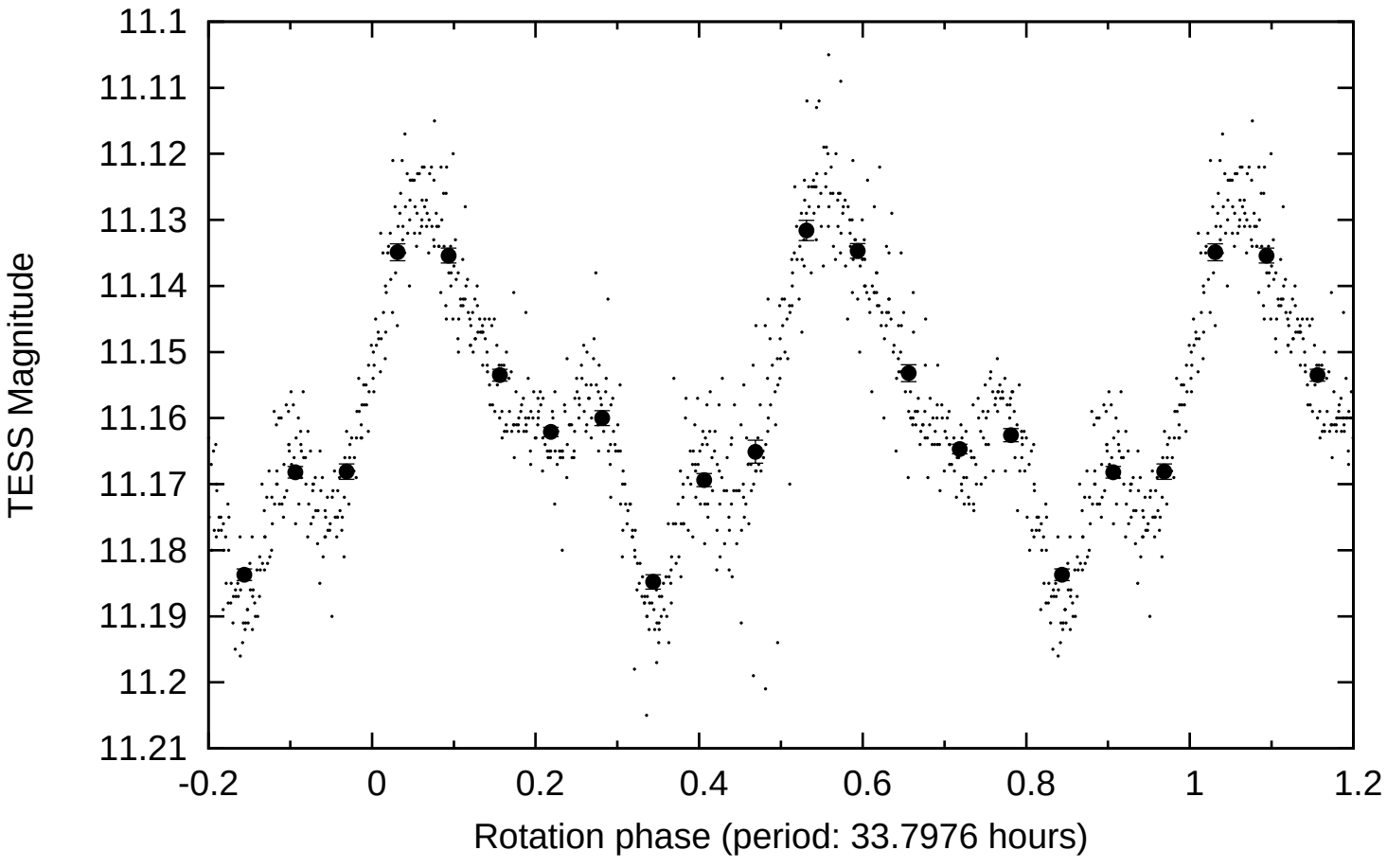

11.6
11.7
11.8
TESS Magnitude
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458585)

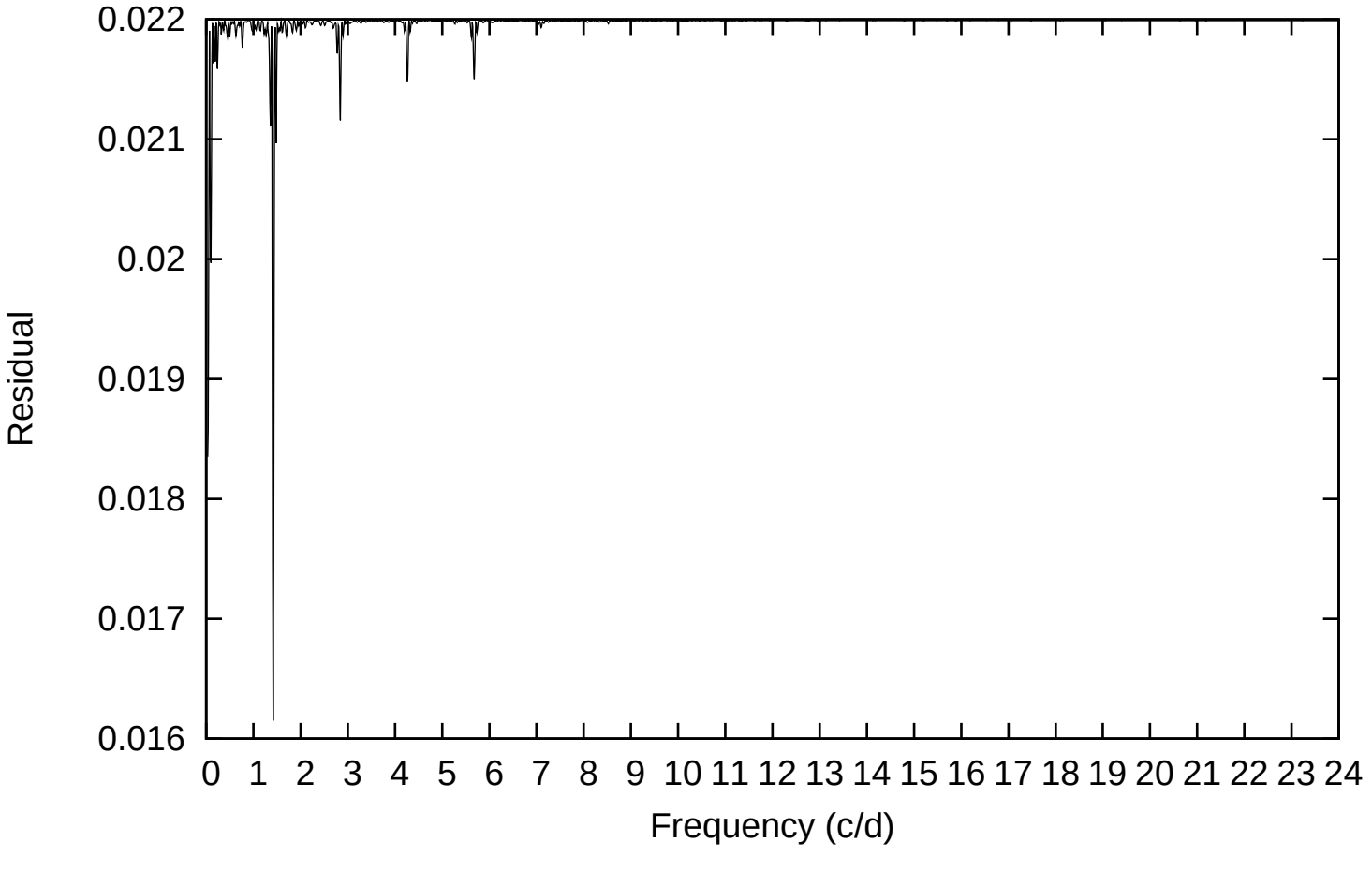

11.62
11.64
11.66
11.68
11.7
11.72
11.74
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.57884 hours)


0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

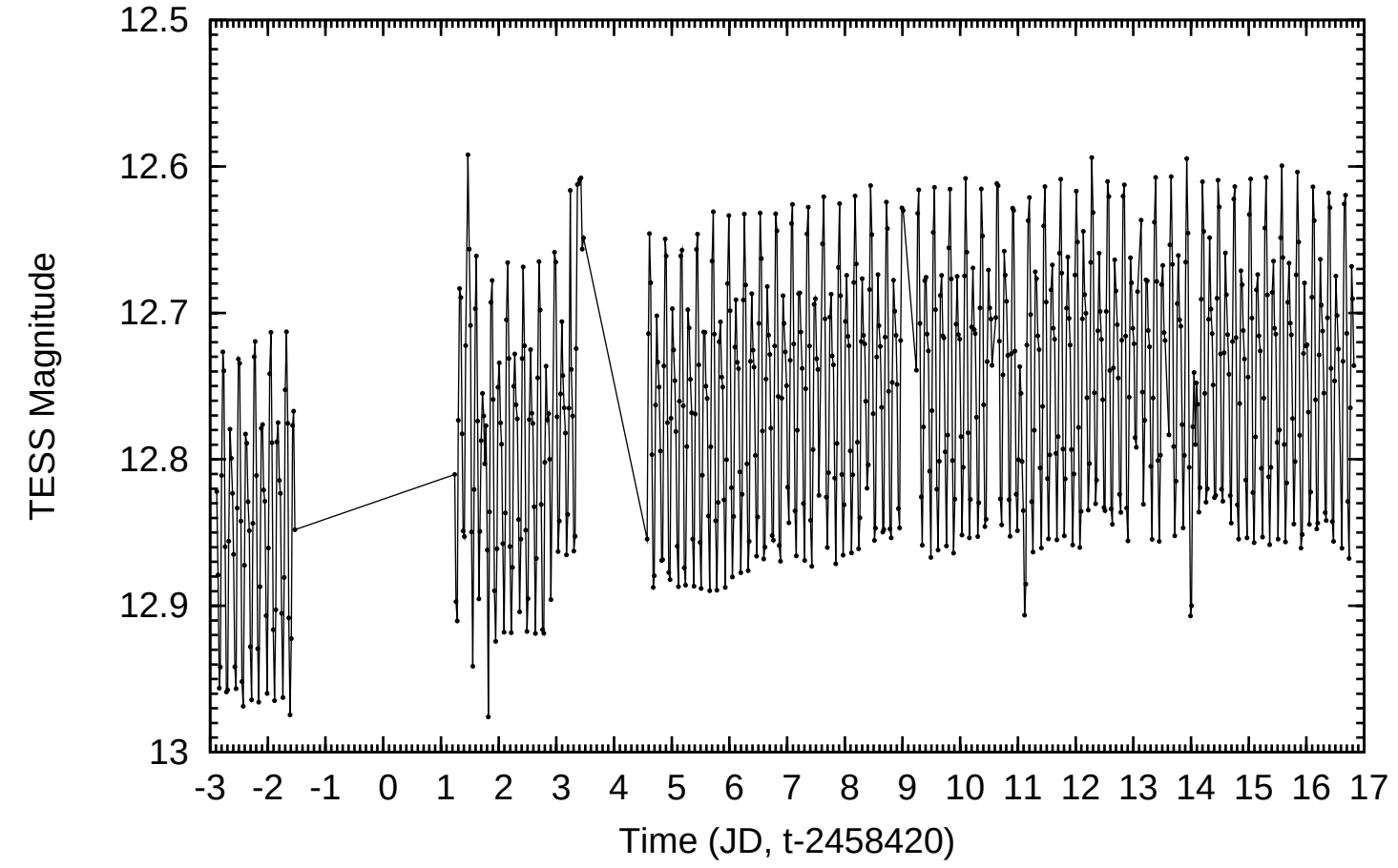
375

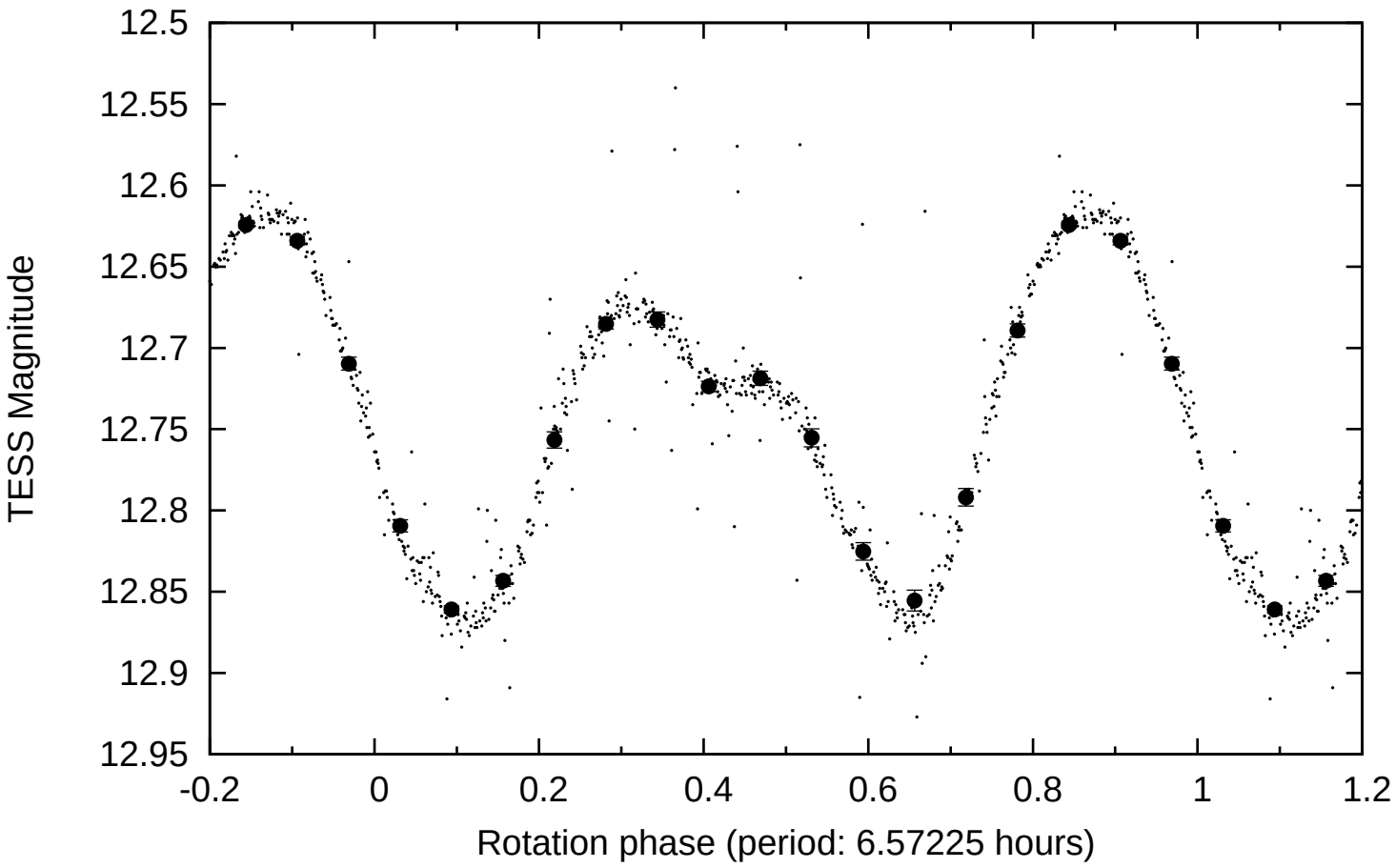

11.1
11.2
11.3
TESS Magnitude
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

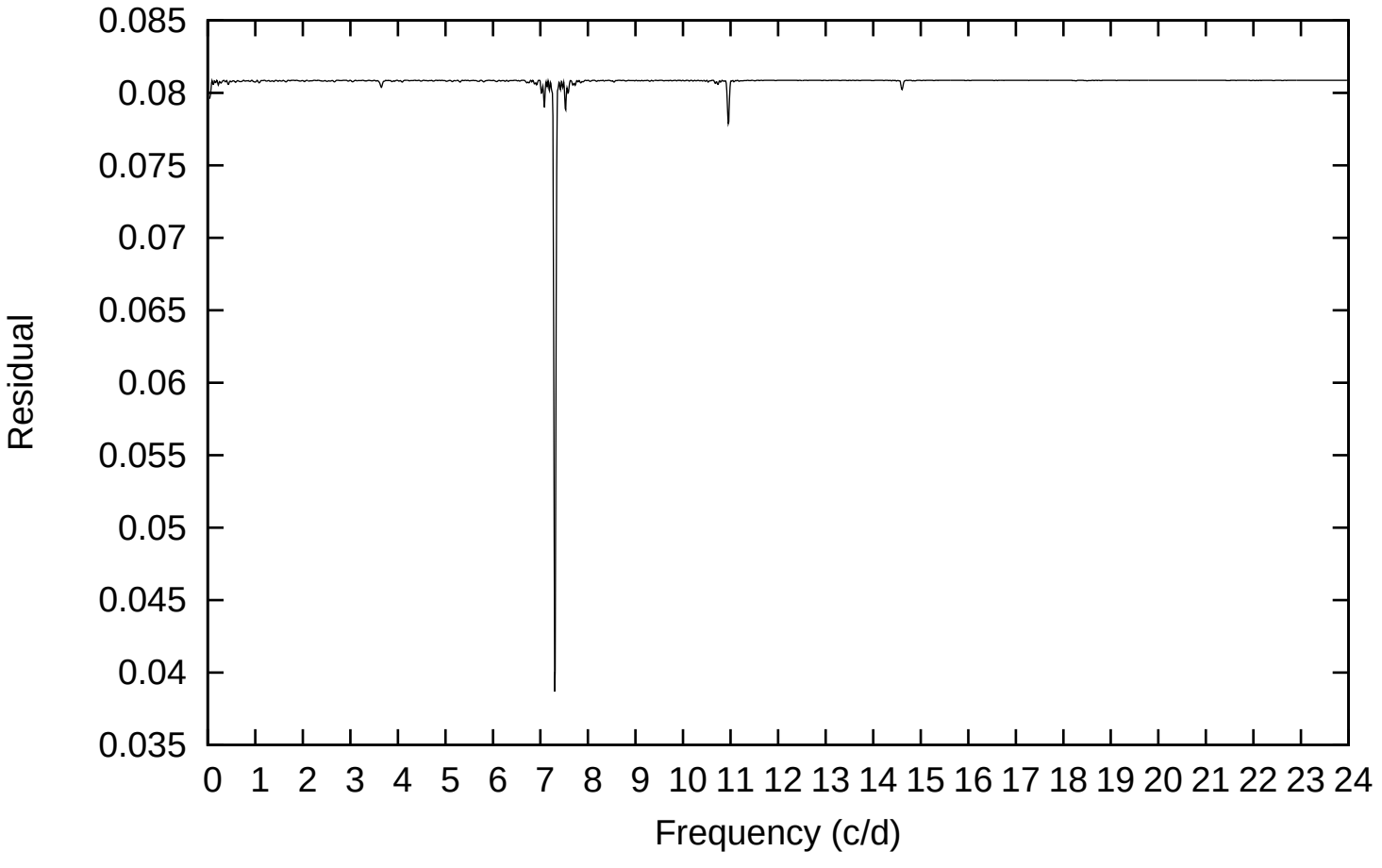

11.1
11.11
11.12
11.13
11.14
11.15
11.16
11.17
11.18
11.19
11.2
11.21
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 33.7976 hours)


0.022
0.021
0.02
0.019
0.018
0.017
0.016
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

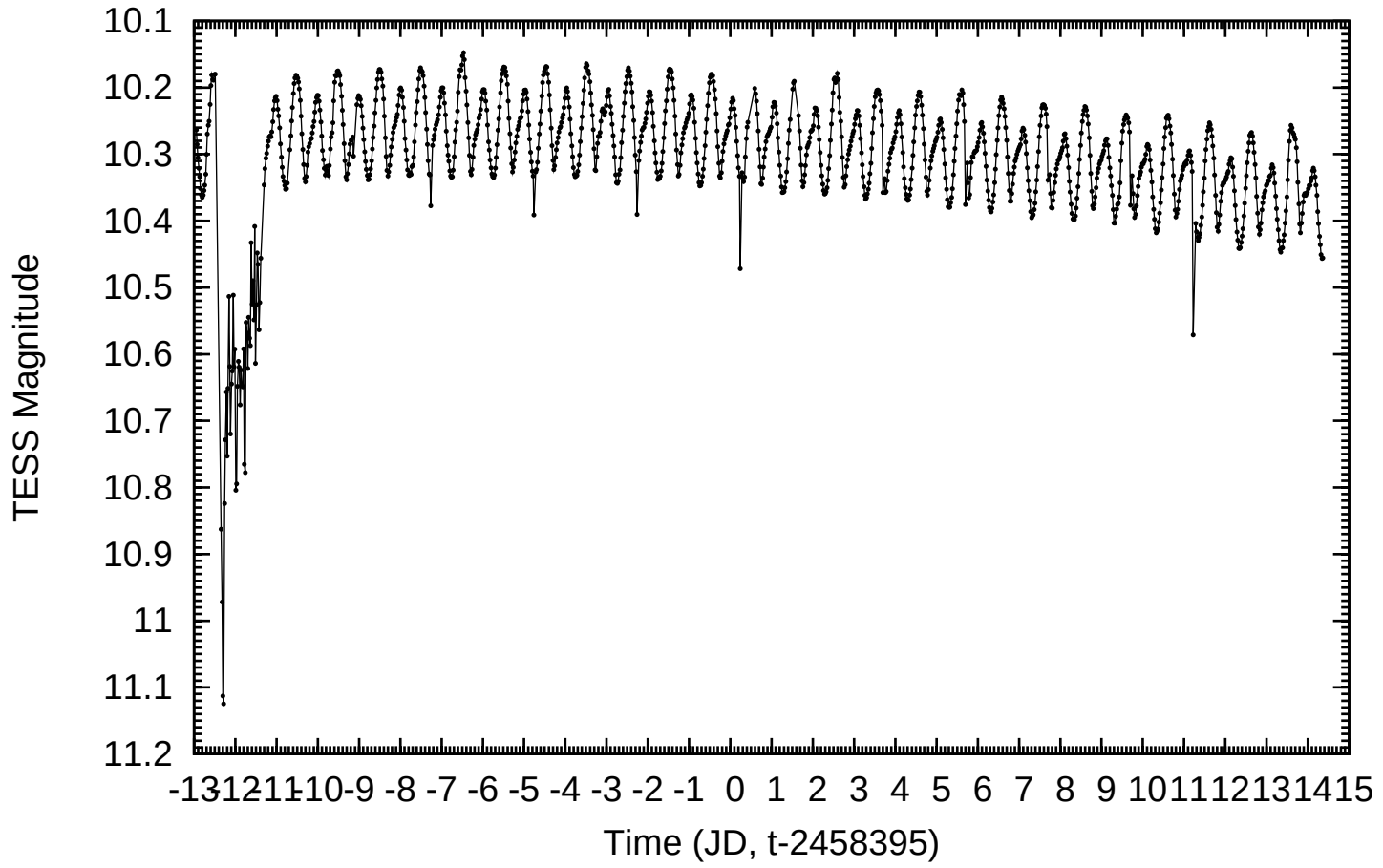
381

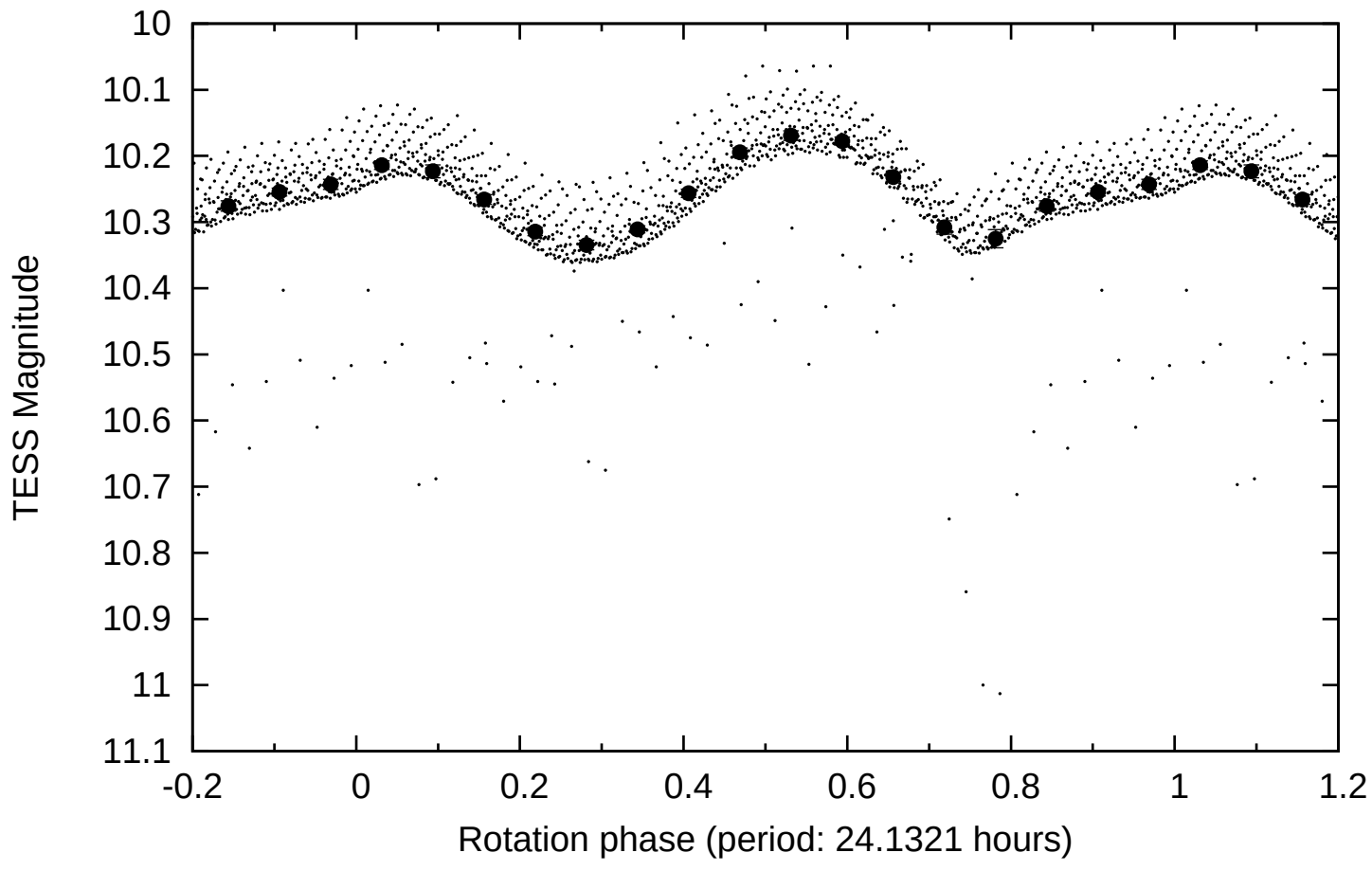

TESS Magnitude
12.5
12.6
12.7
12.8
12.9
13
-3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Time (JD, t-2458420)

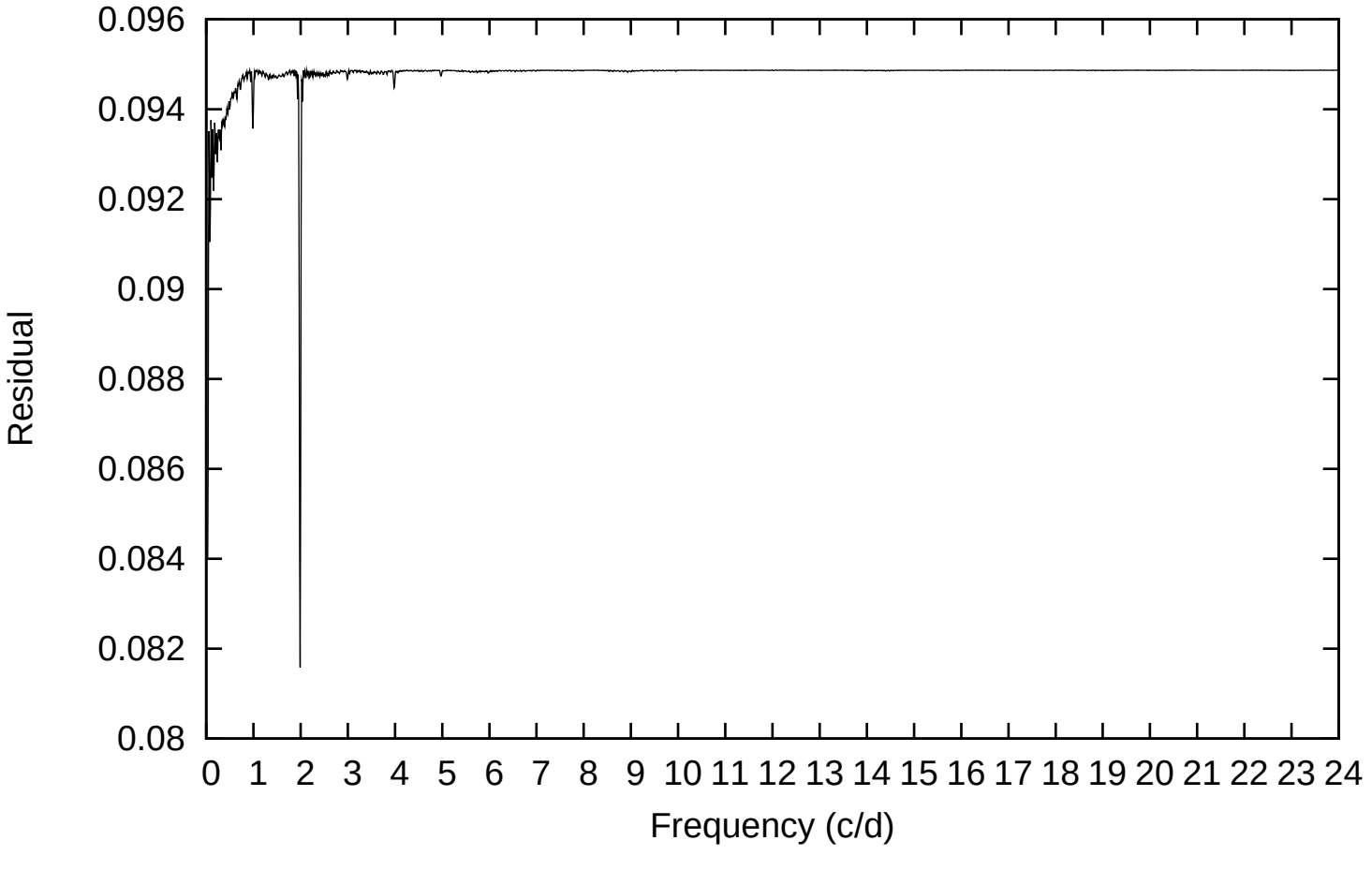

TESS Magnitude
12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
12.9
12.95
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 6.57225 hours)


Residual
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

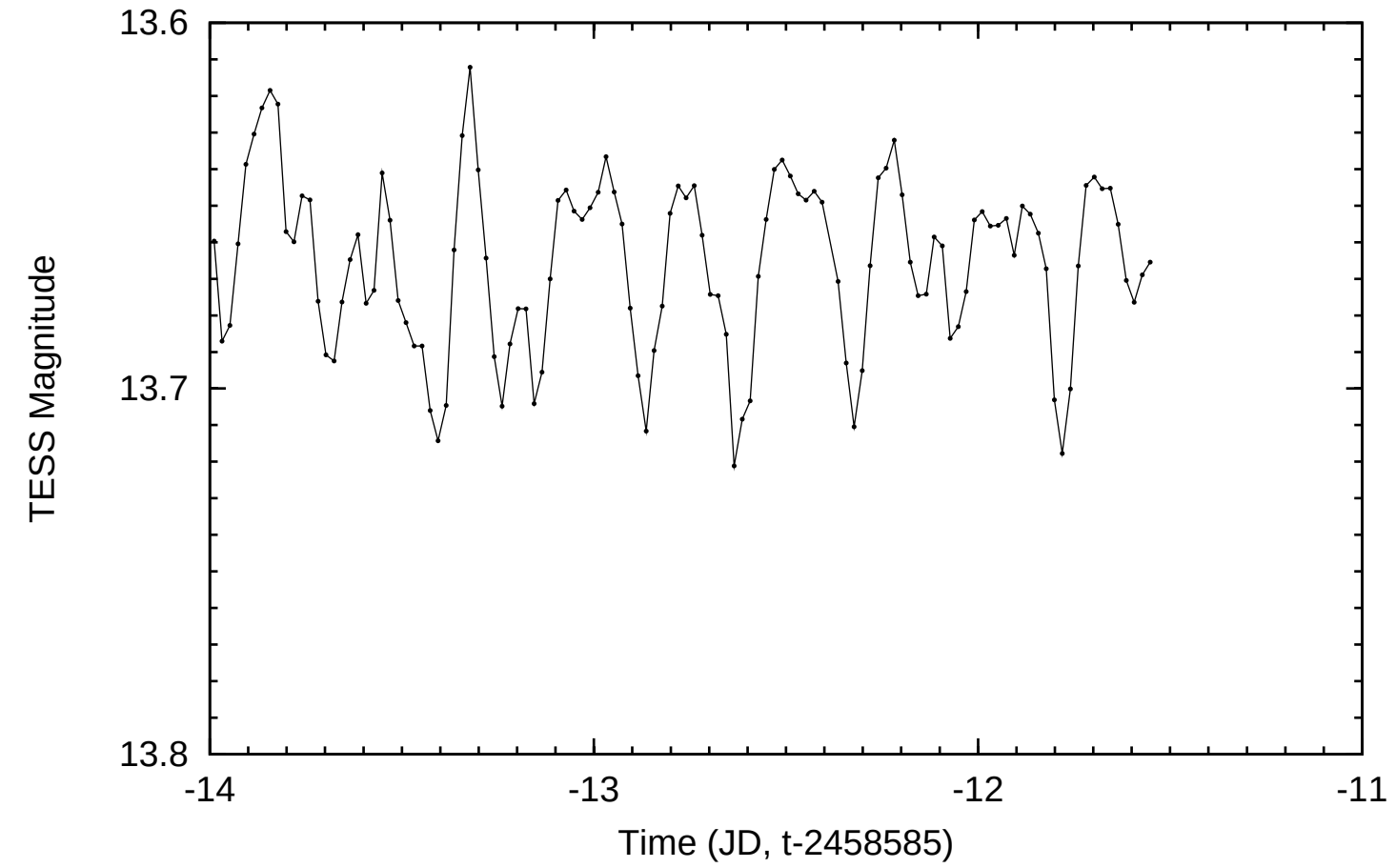
387

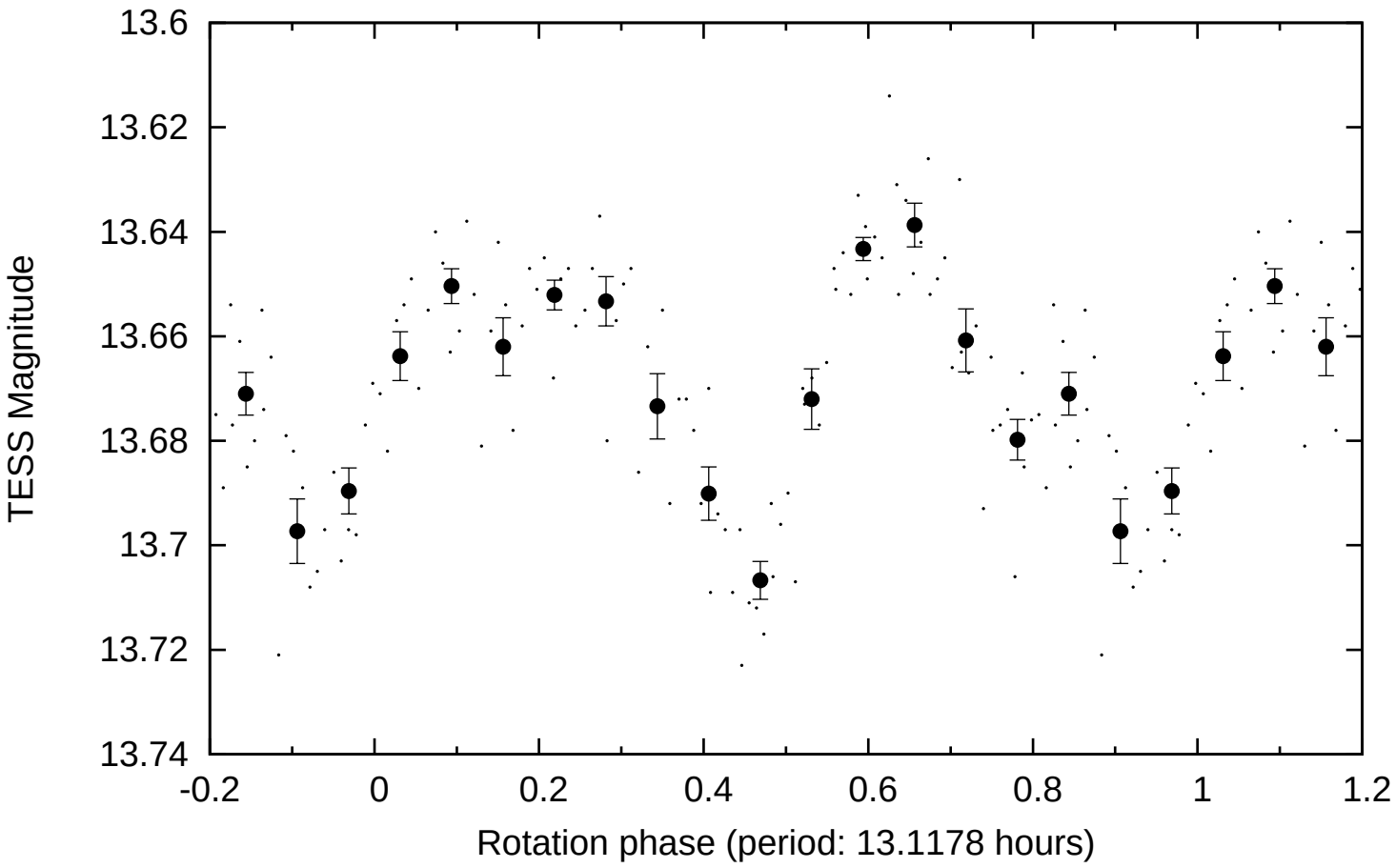

TESS Magnitude
10.1
10.2
10.3
10.4
10.5
10.6
10.7
10.8
10.9
11
11.1
11.2
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Time (JD, t-2458395)

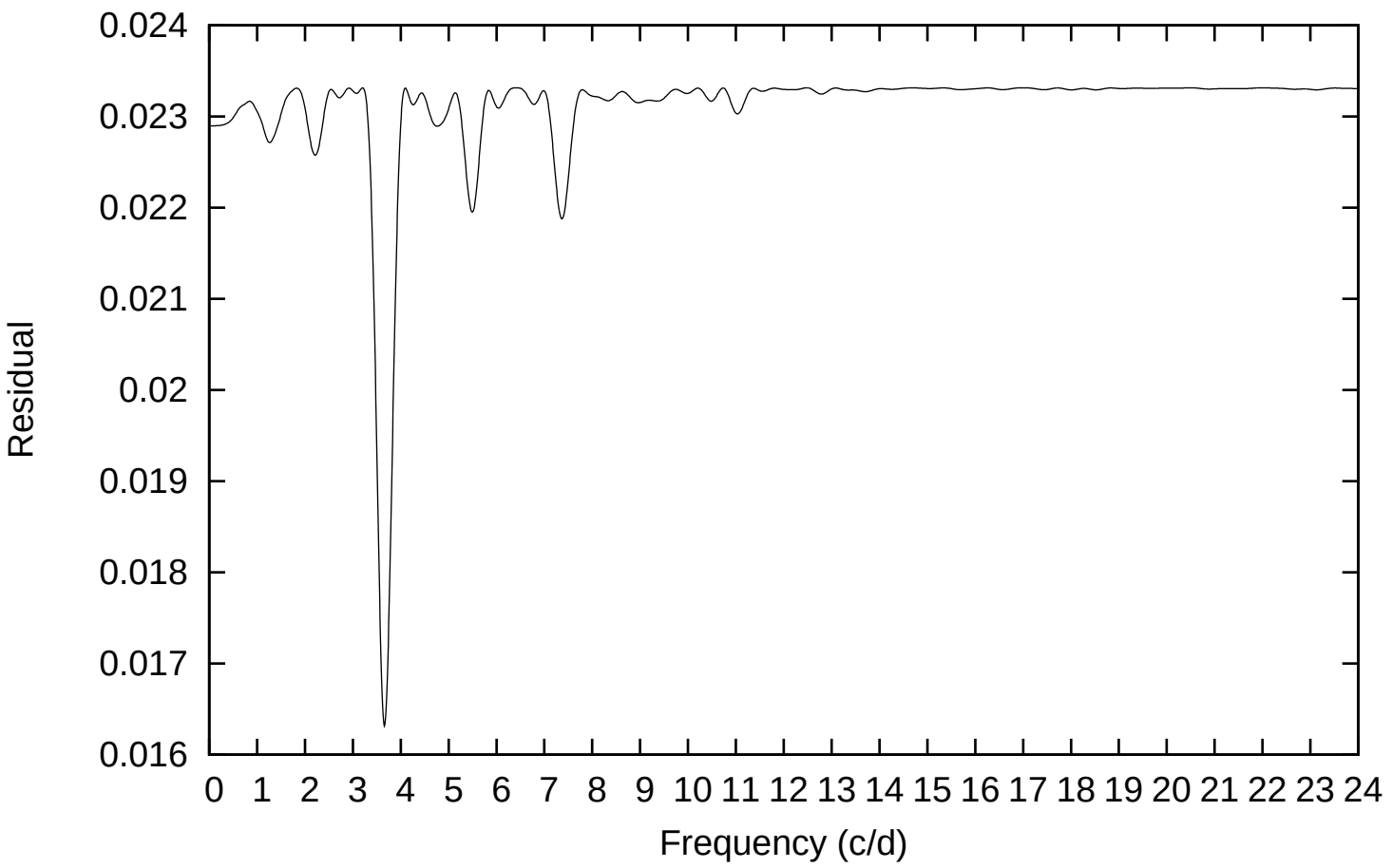

TESS Magnitude
10
10.1
10.2
10.3
10.4
10.5
10.6
10.7
10.8
10.9
11
11.1
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 24.1321 hours)


Residual
0.096
0.094
0.092
0.09
0.088
0.086
0.084
0.082
0.08
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

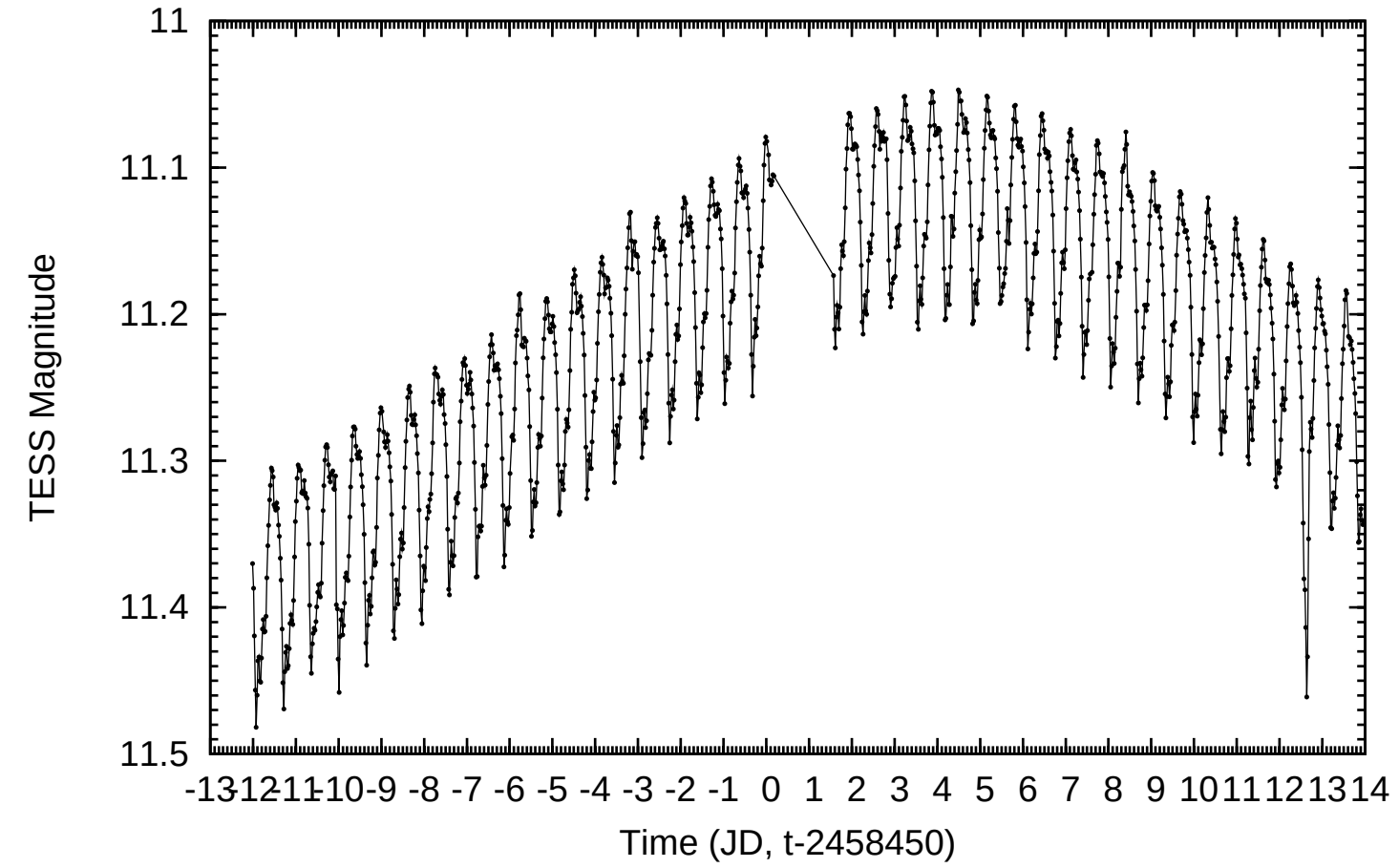
392

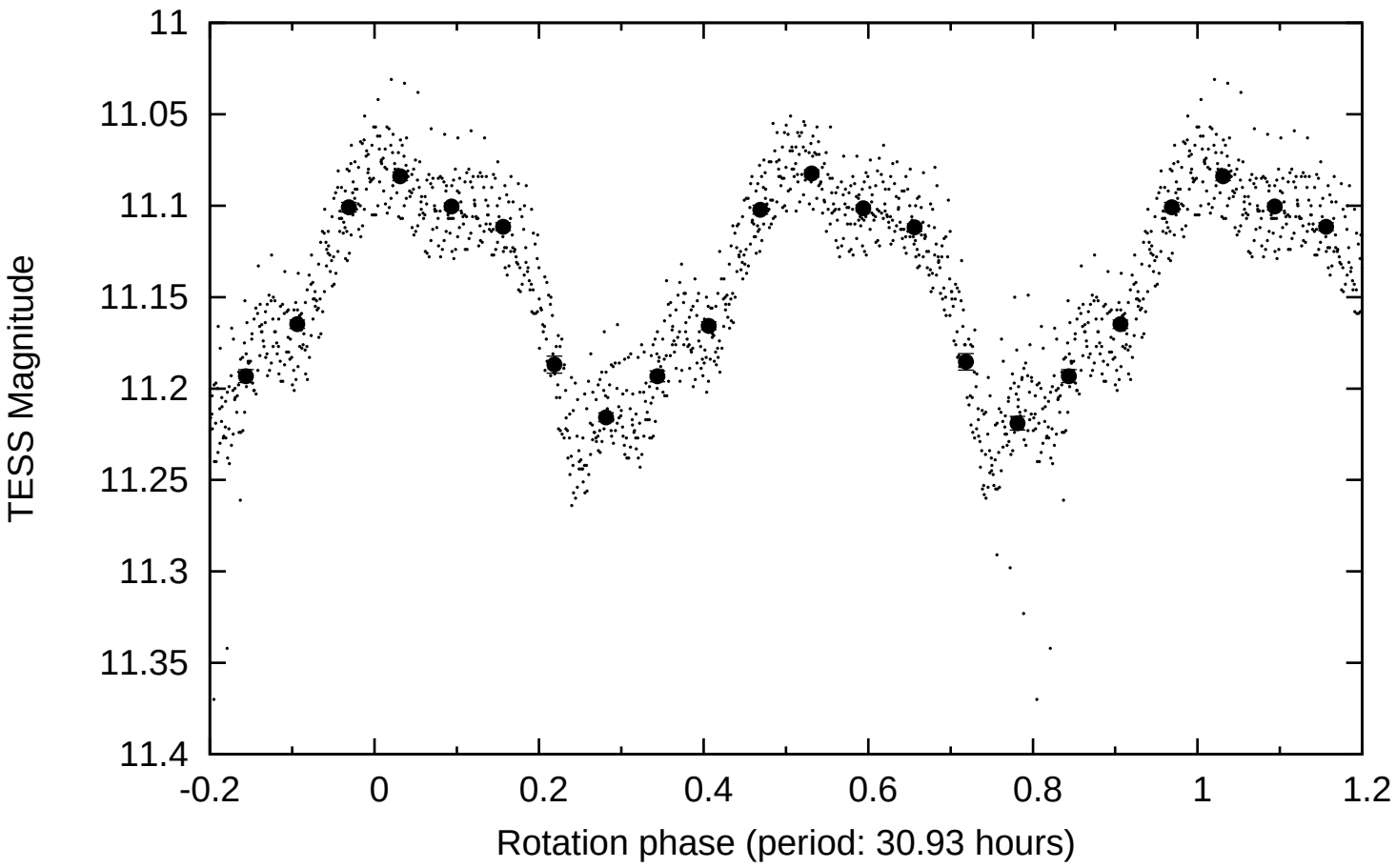

13.6
13.7
13.8
TESS Magnitude
-14
-13
-12
-11
Time (JD, t-2458585)

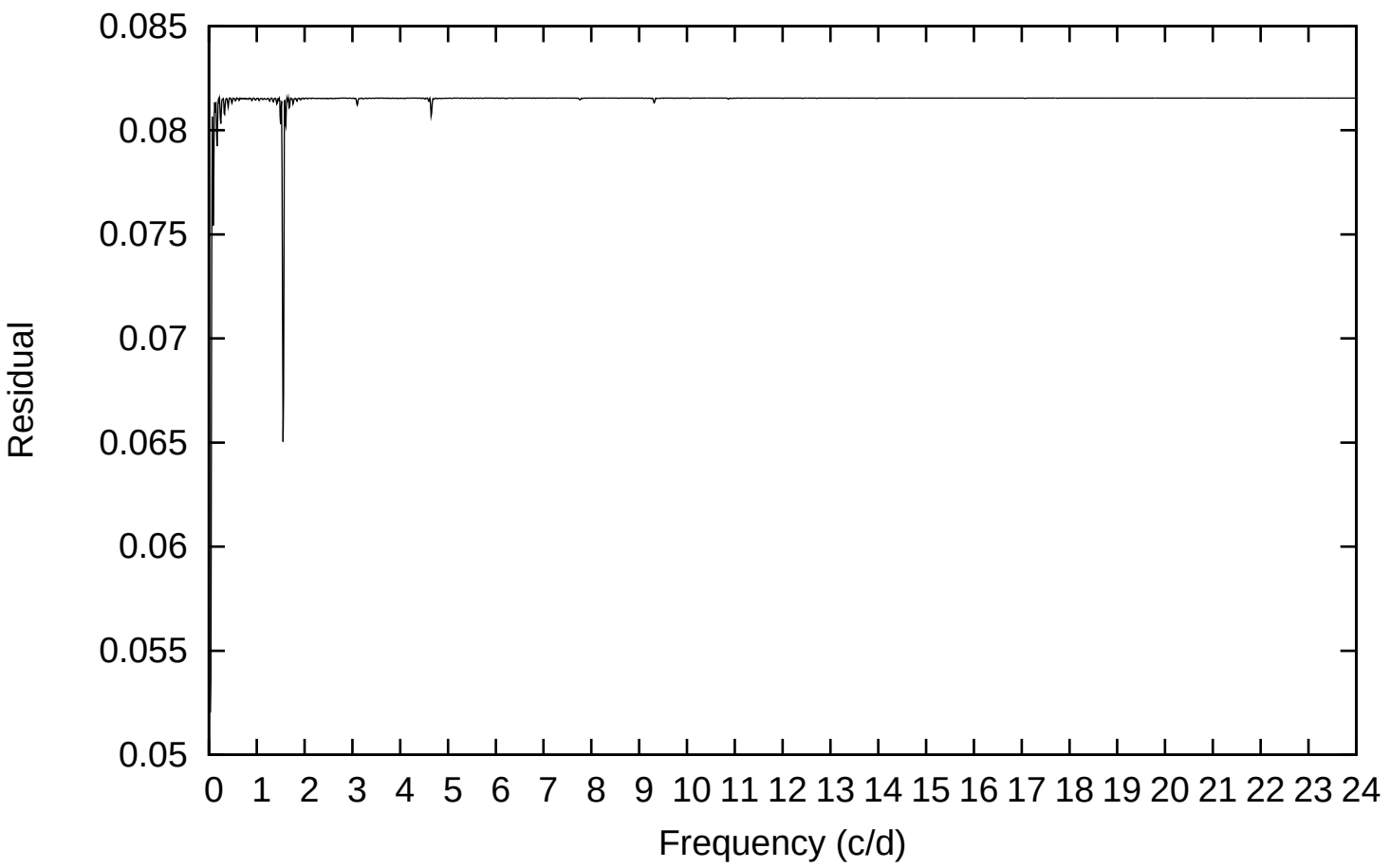

13.6
13.62
13.64
13.66
13.68
13.7
13.72
13.74
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 13.1178 hours)


0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

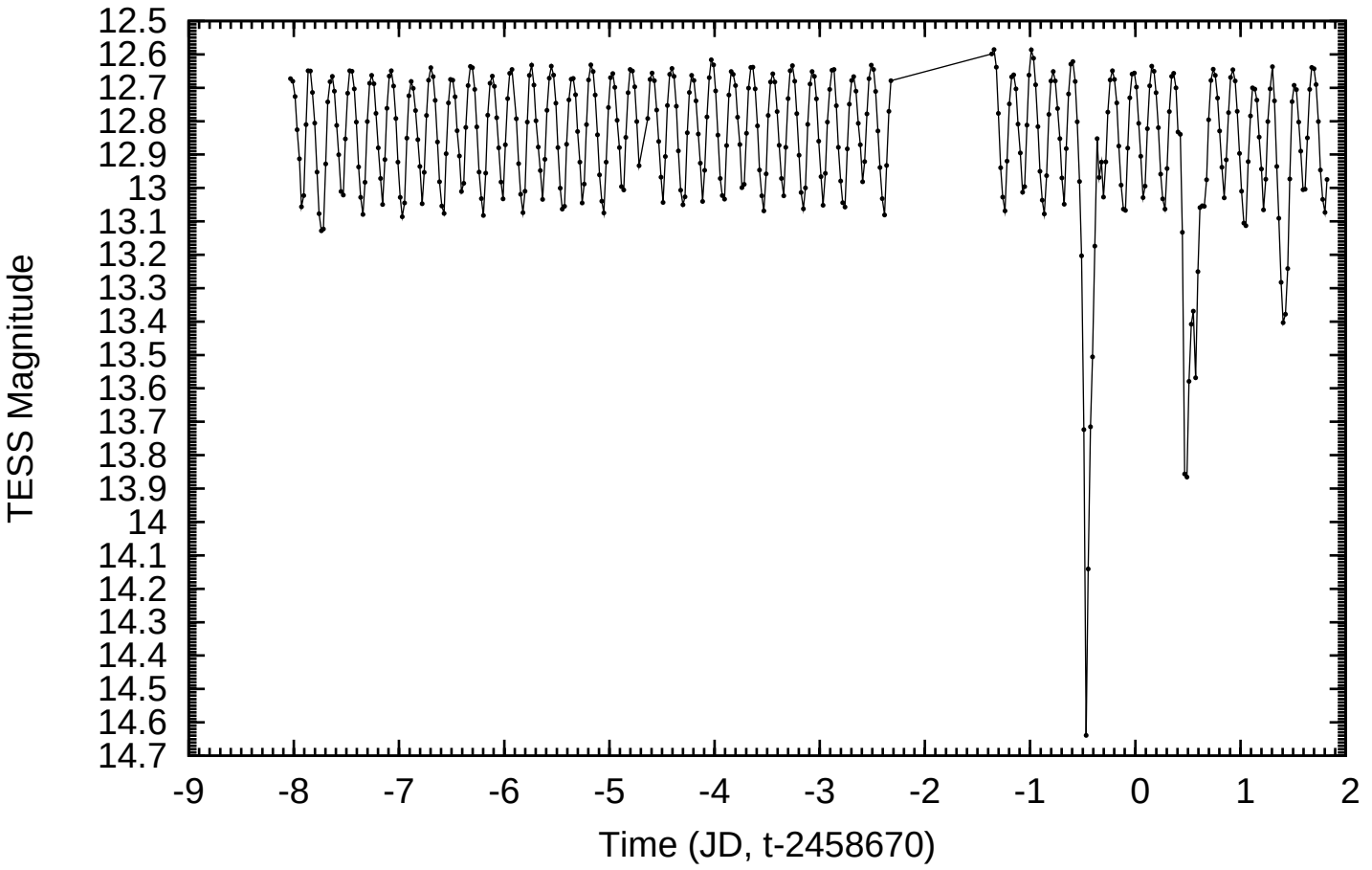
397

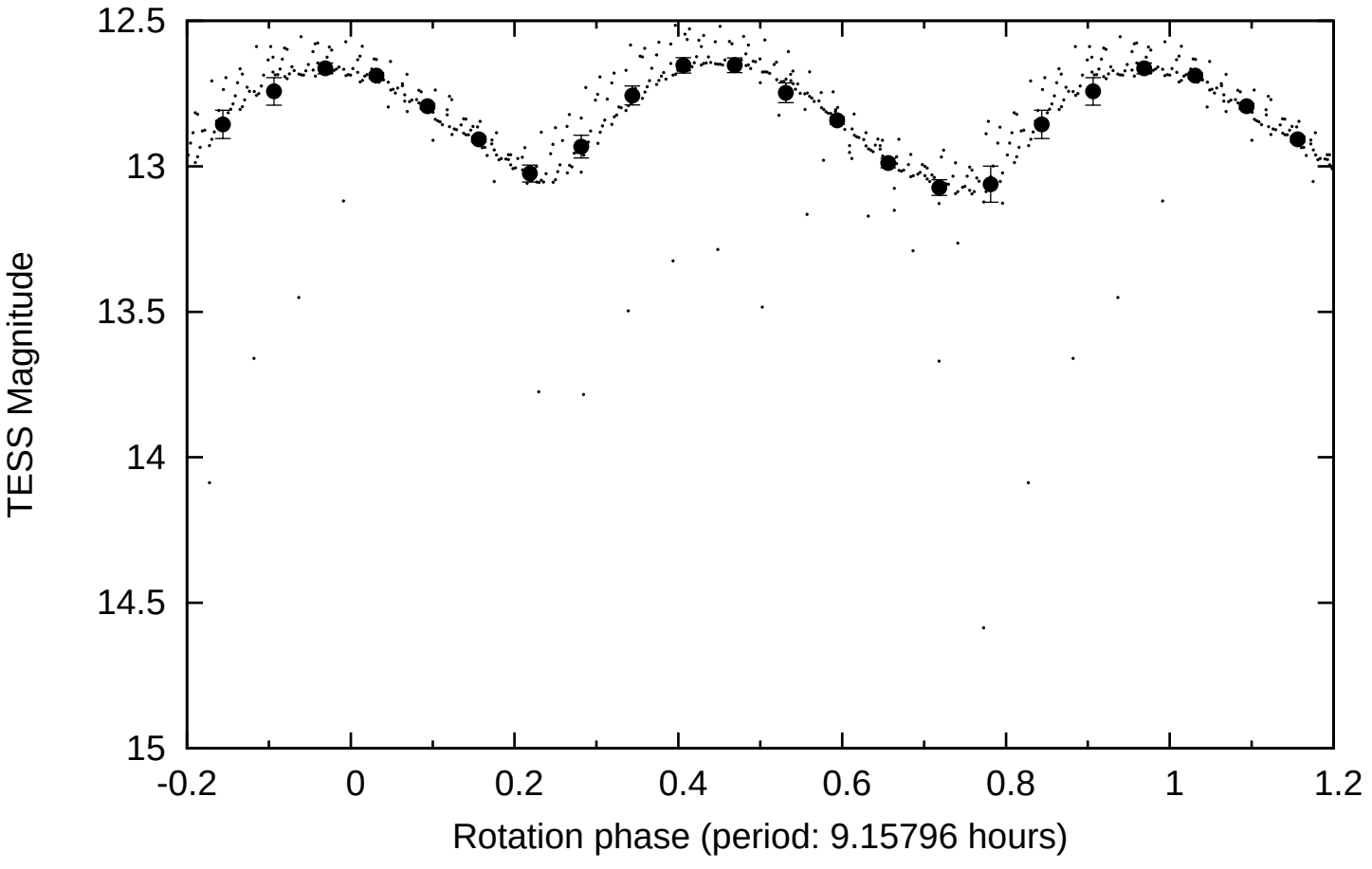

TESS Magnitude
11
11.1
11.2
11.3
11.4
11.5
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458450)

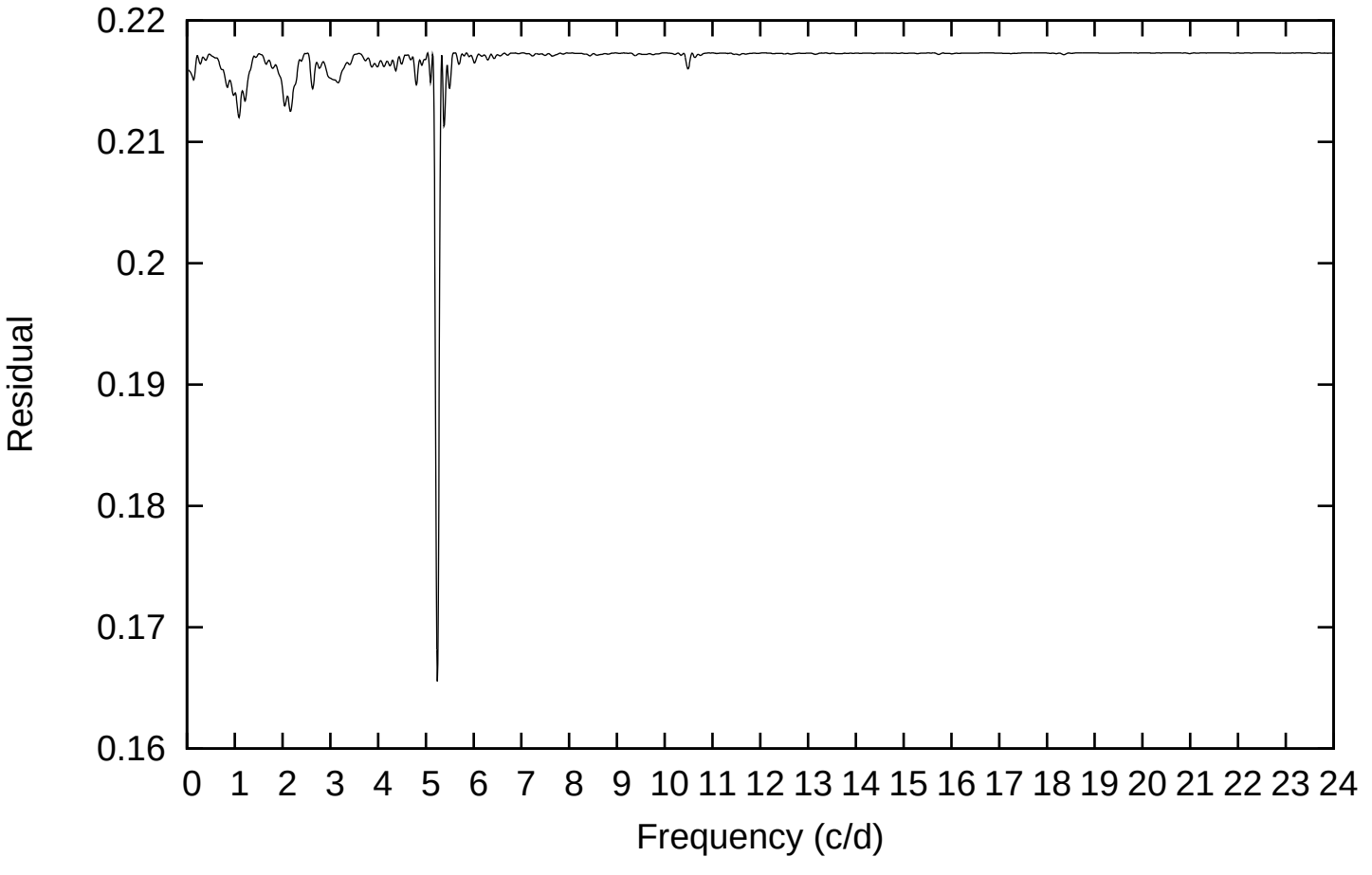

TESS Magnitude
11
11.05
11.1
11.15
11.2
11.25
11.3
11.35
11.4
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 30.93 hours)


Residual
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

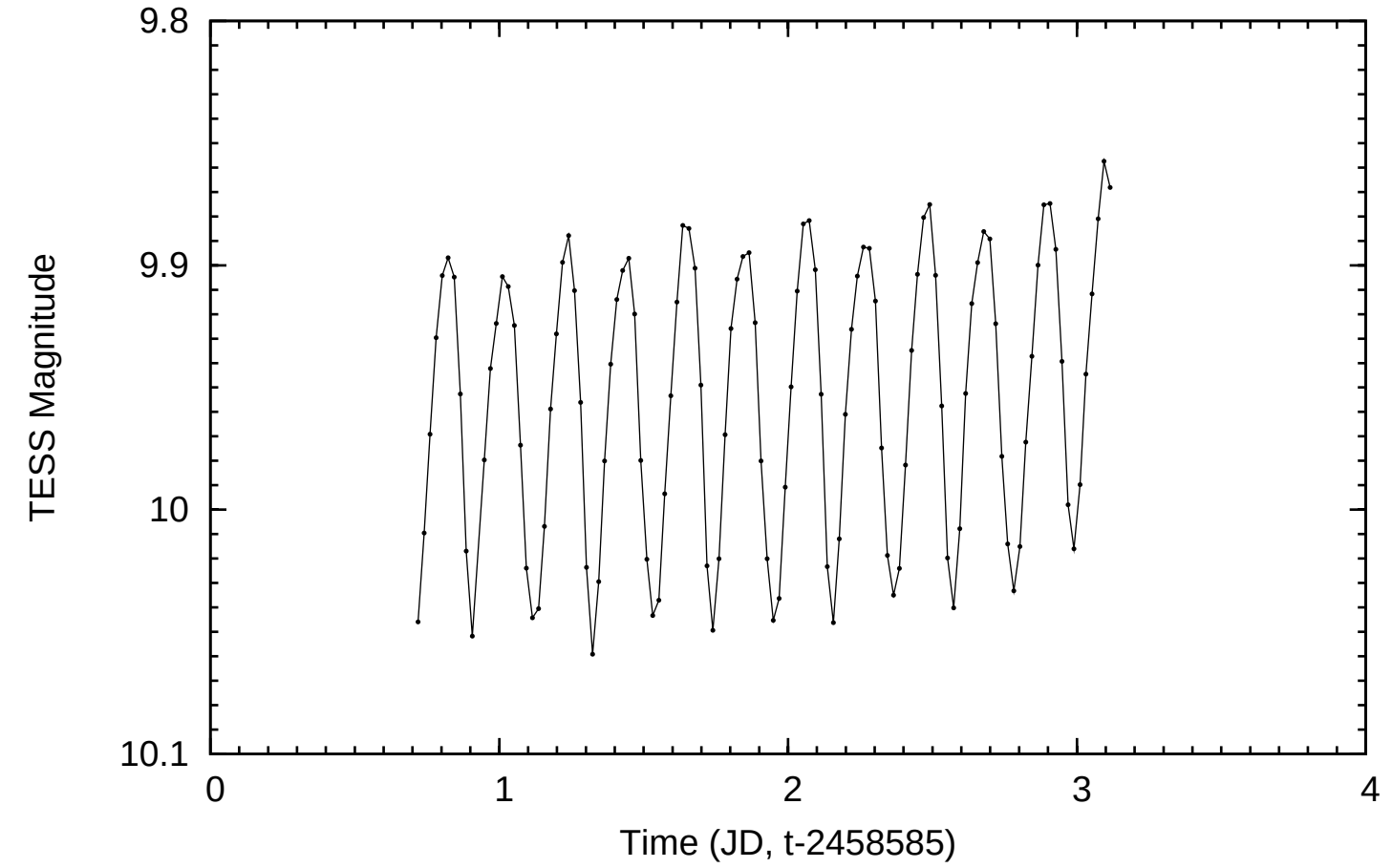
399

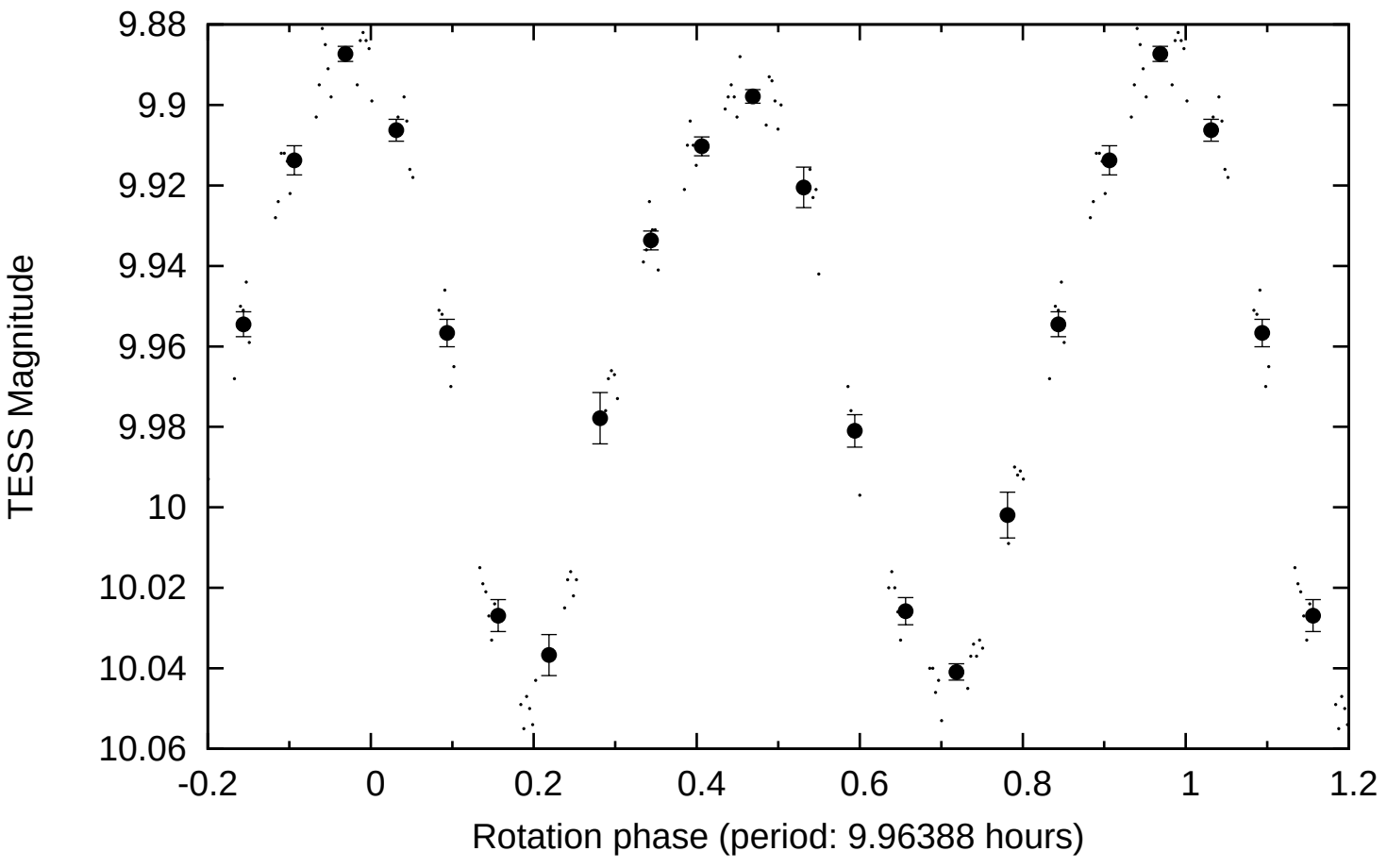

TESS Magnitude
12.5
12.6
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
14.6
14.7
-9
-8
-7
-6
-5
-4
-3
-2
-1
0
1
2
Time (JD, t-2458670)

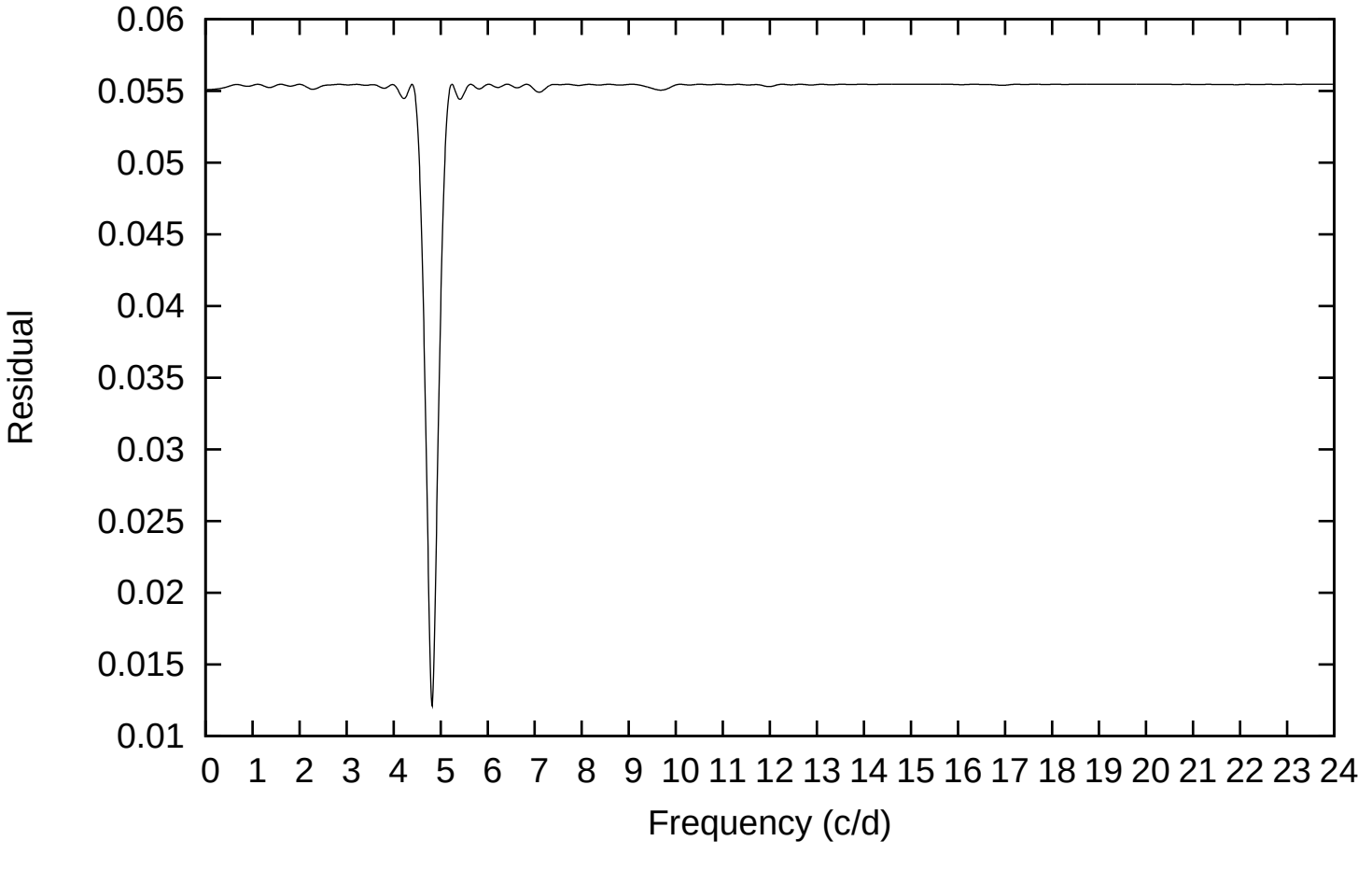

TESS Magnitude
12.5
13
13.5
14
14.5
15
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 9.15796 hours)


Residual
0.22
0.21
0.2
0.19
0.18
0.17
0.16
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

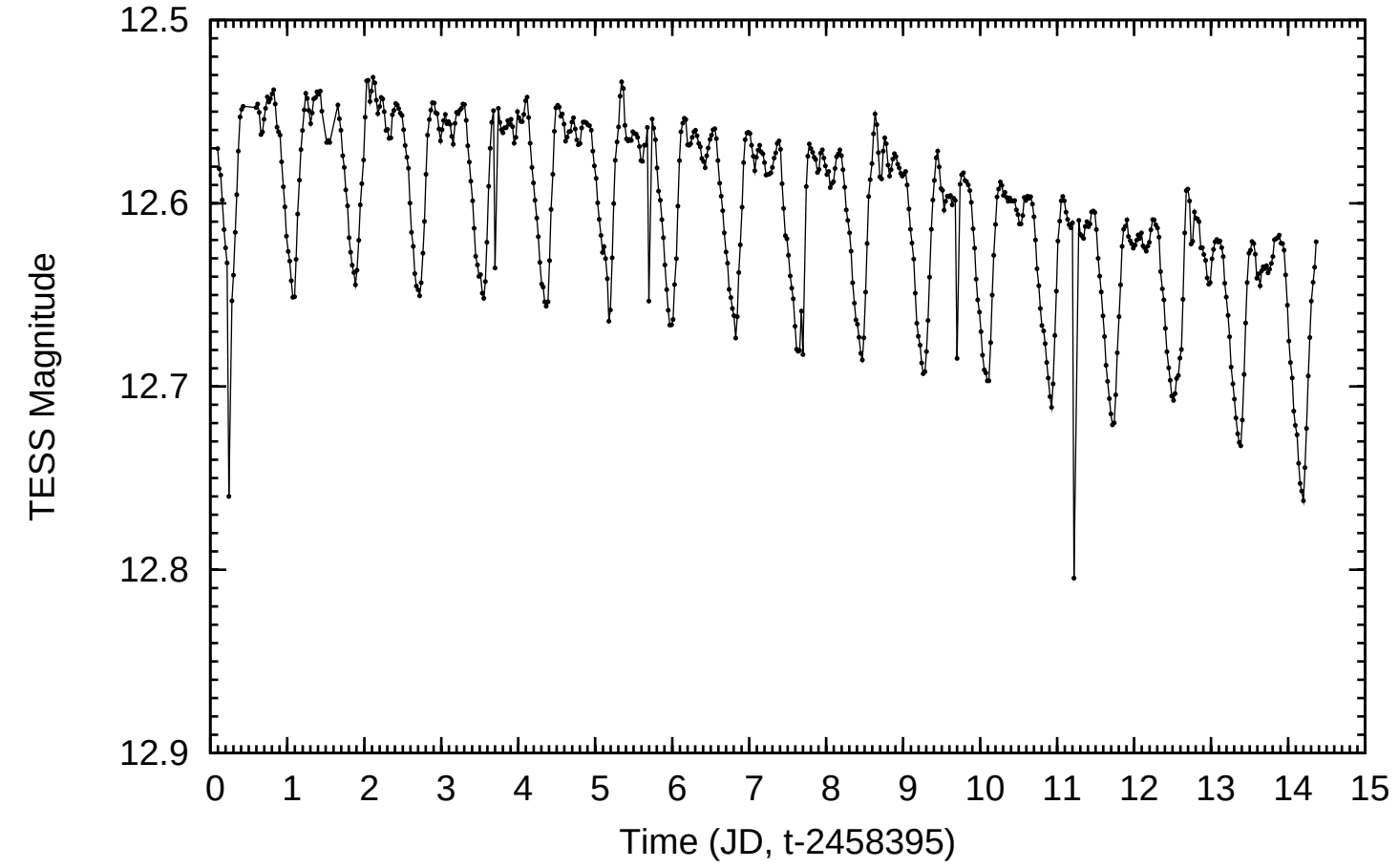
405

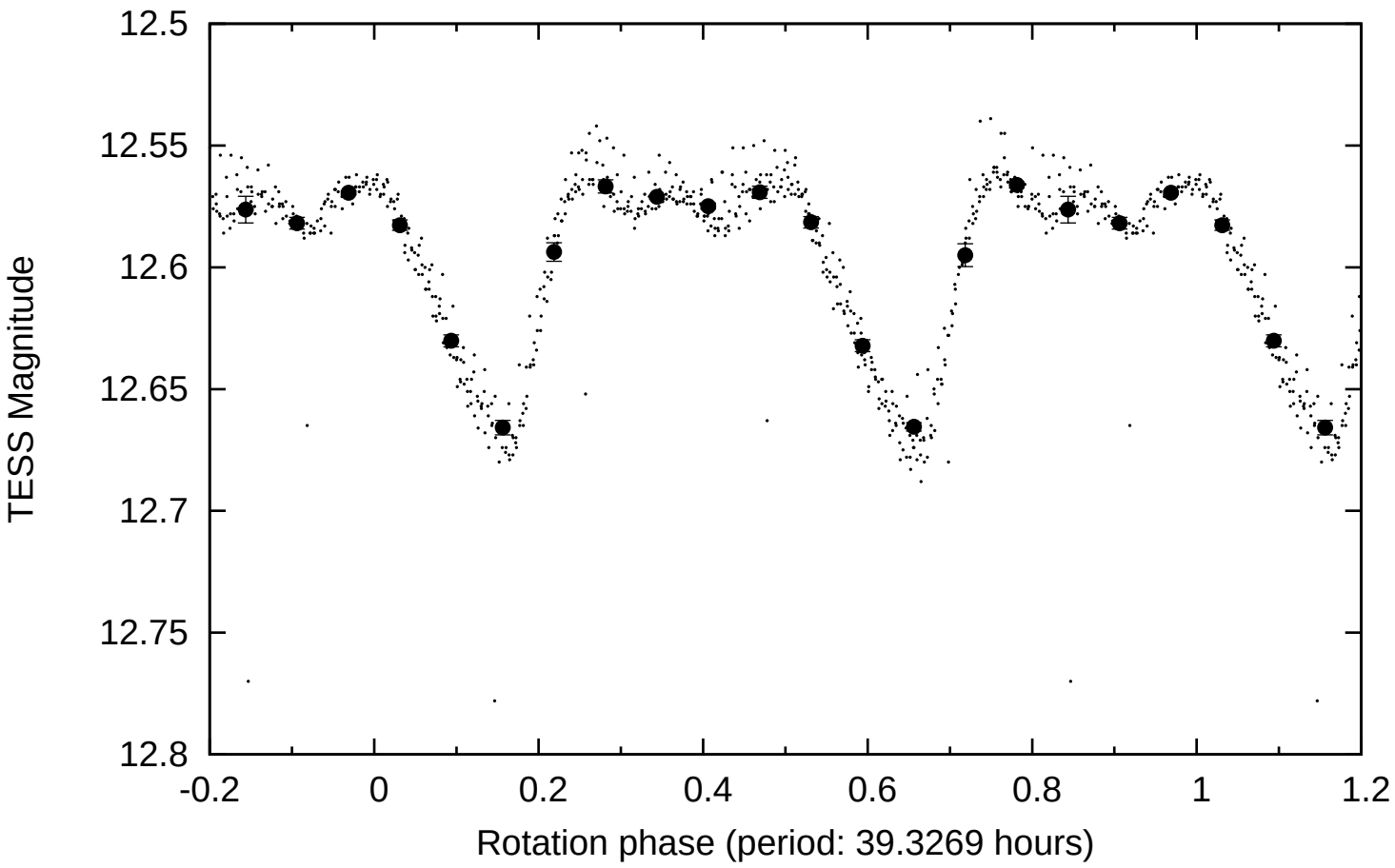

9.8
9.9
10
10.1
TESS Magnitude
0
1
2
3
4
Time (JD, t-2458585)

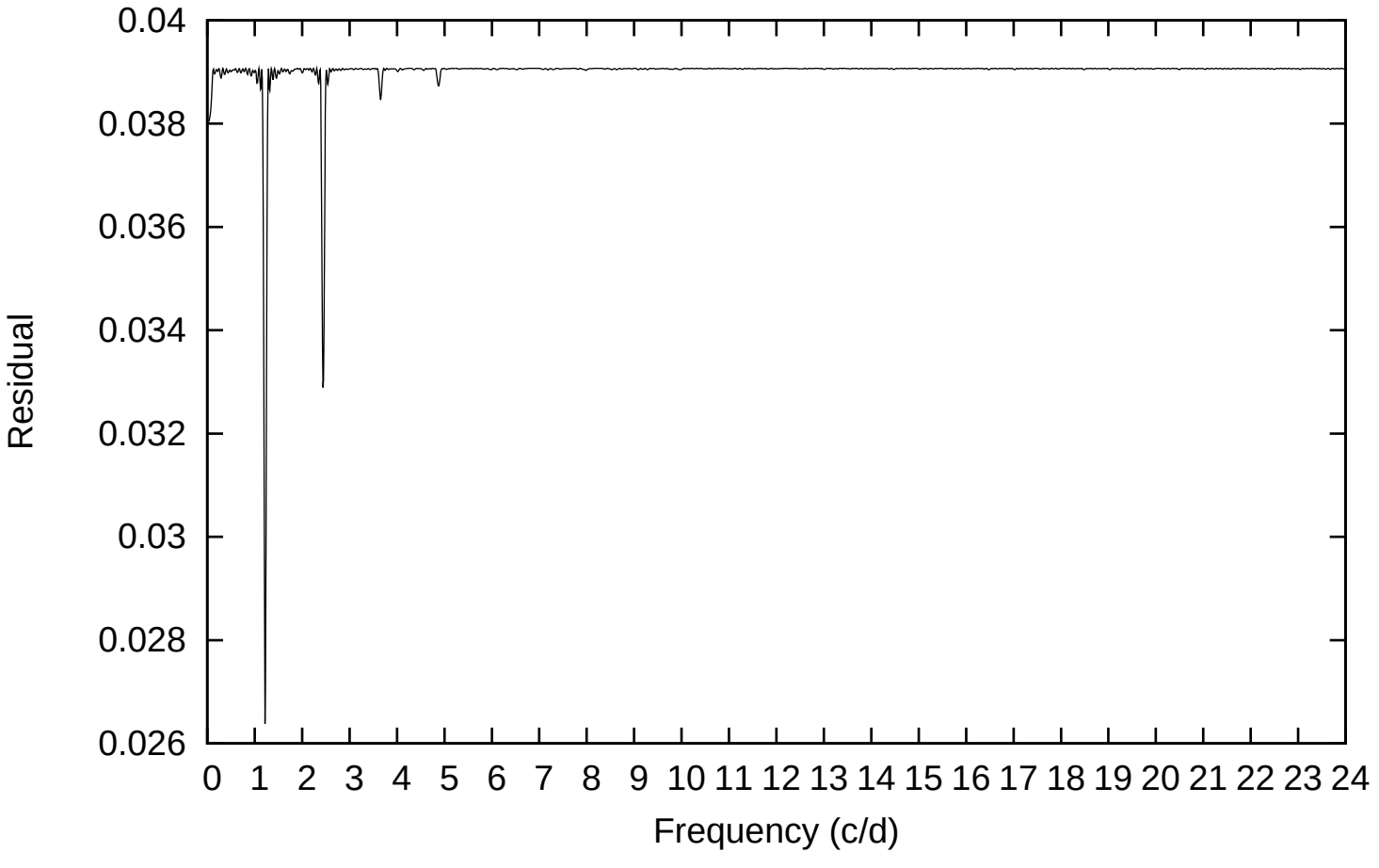

9.88
9.9
9.92
9.94
9.96
9.98
10
10.02
10.04
10.06
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 9.96388 hours)


0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

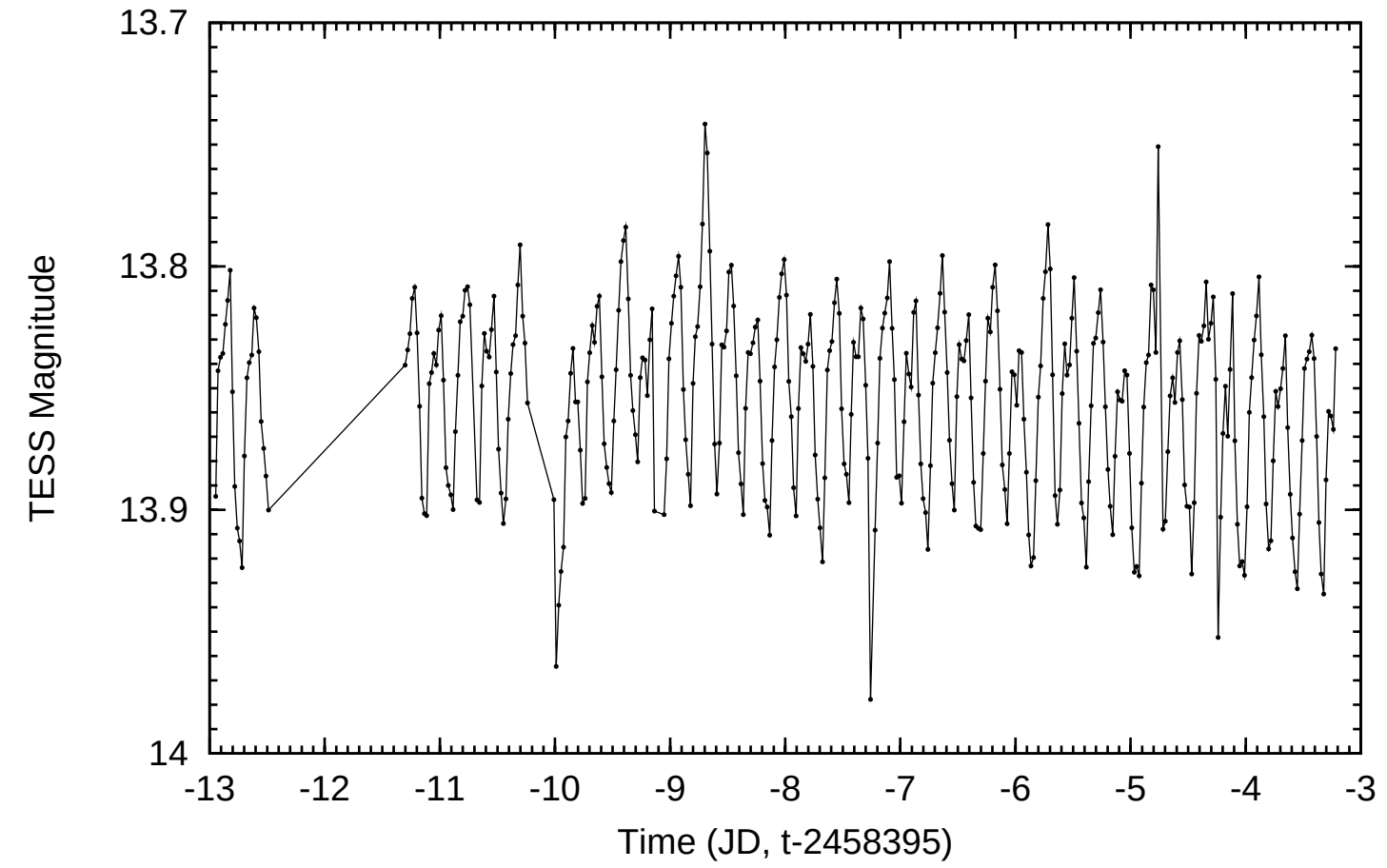
412

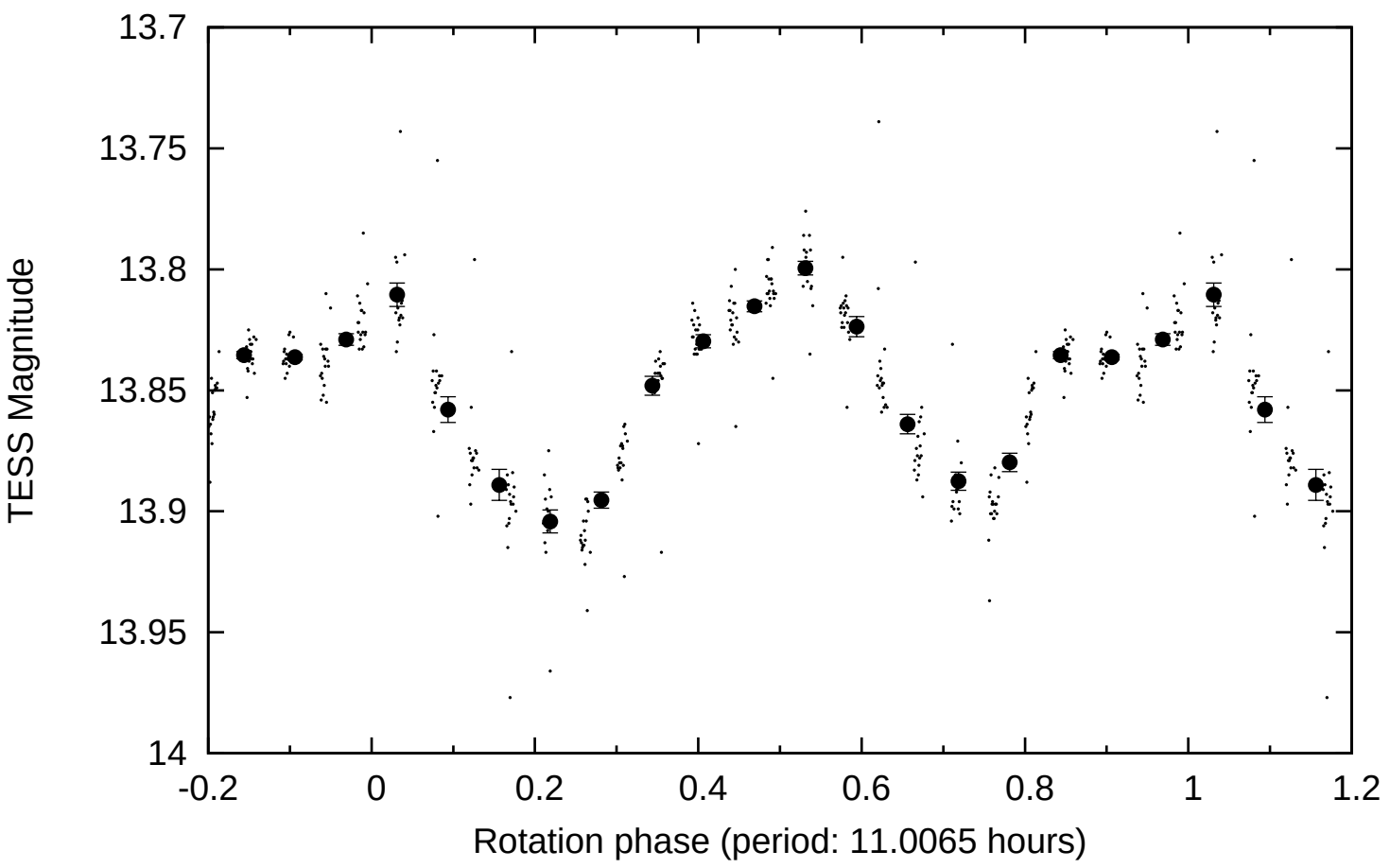

12.5
12.6
12.7
12.8
12.9
TESS Magnitude
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Time (JD, t-2458395)

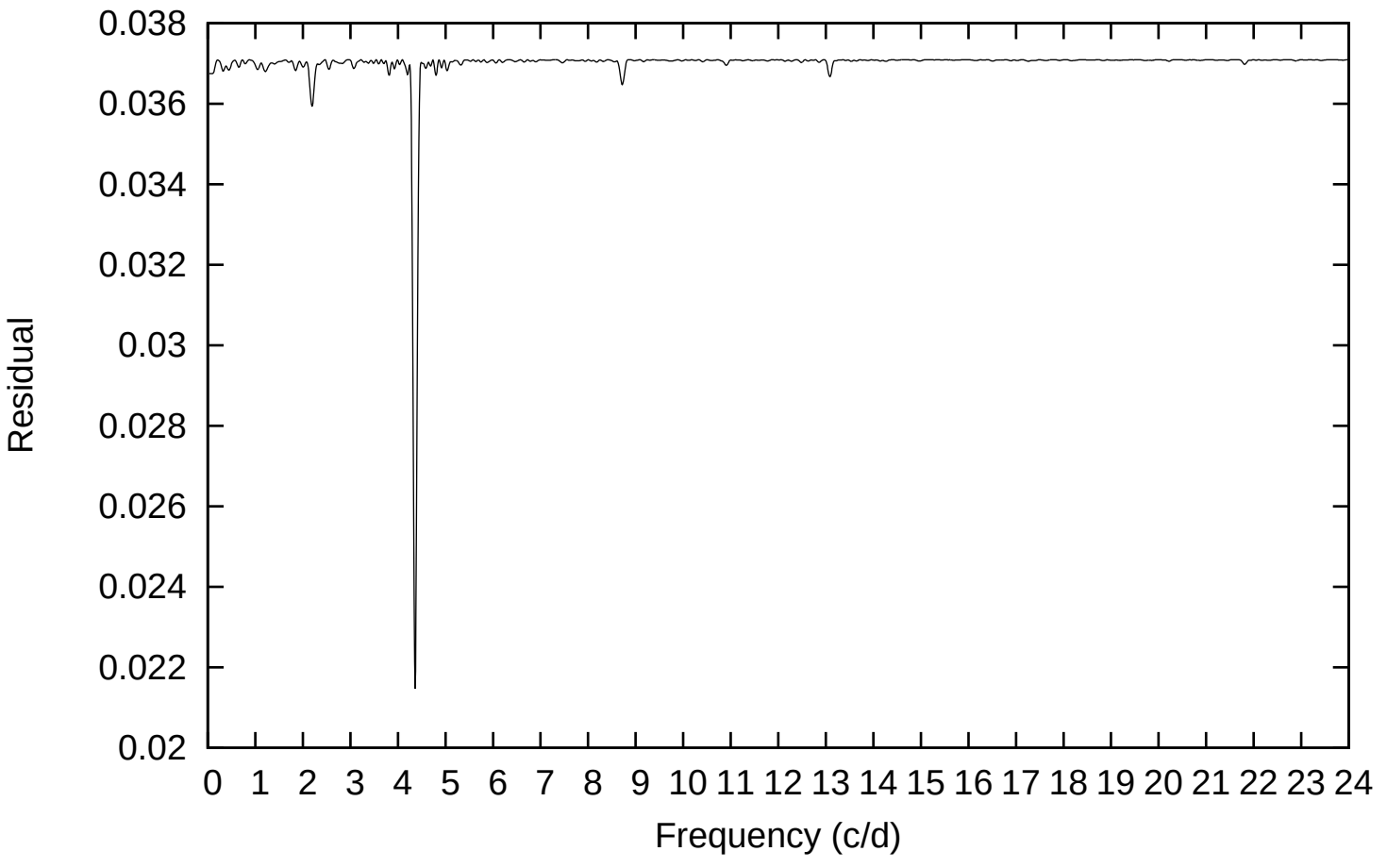

12.5
12.55
12.6
12.65
12.7
12.75
12.8
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 39.3269 hours)


0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

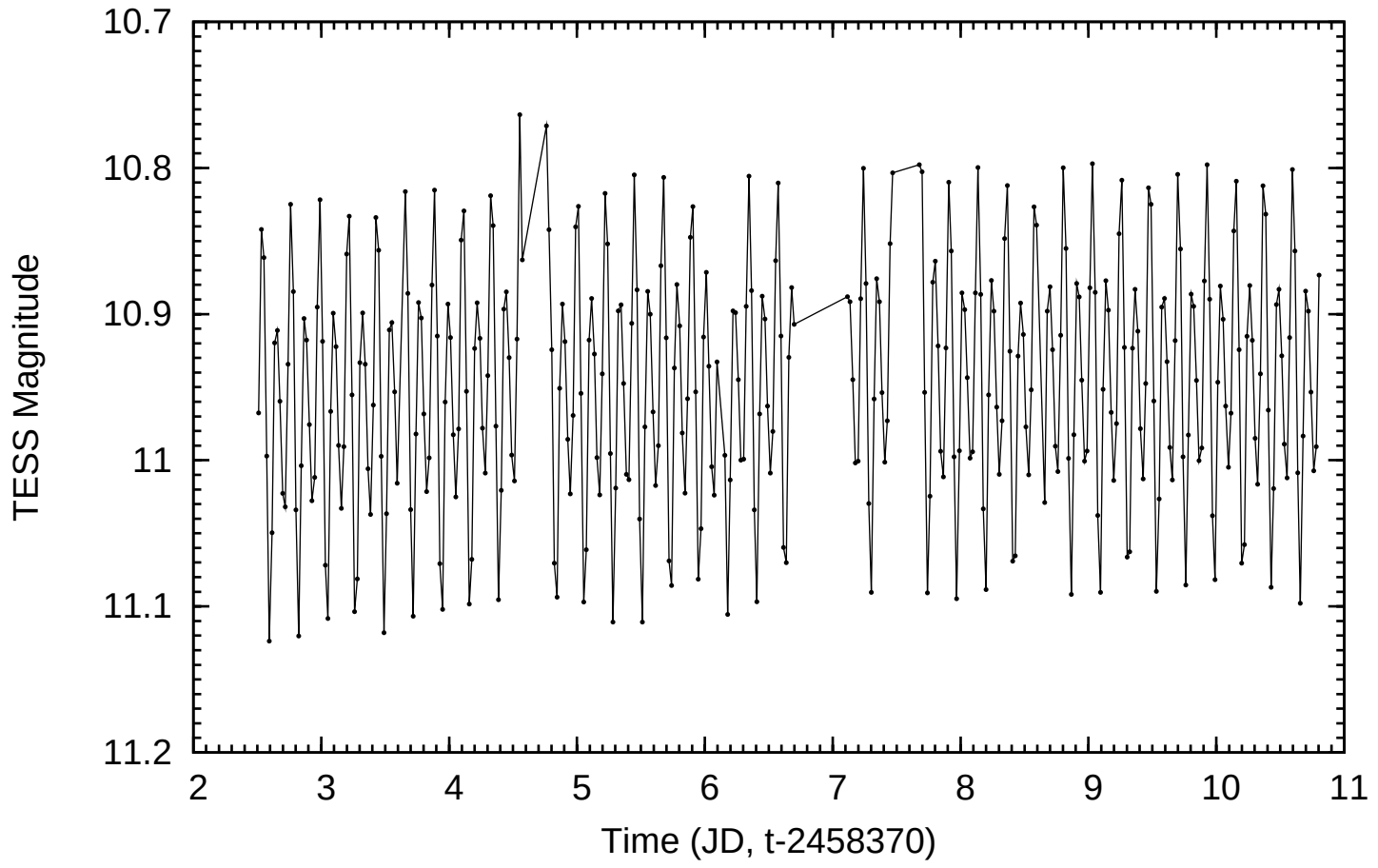
414

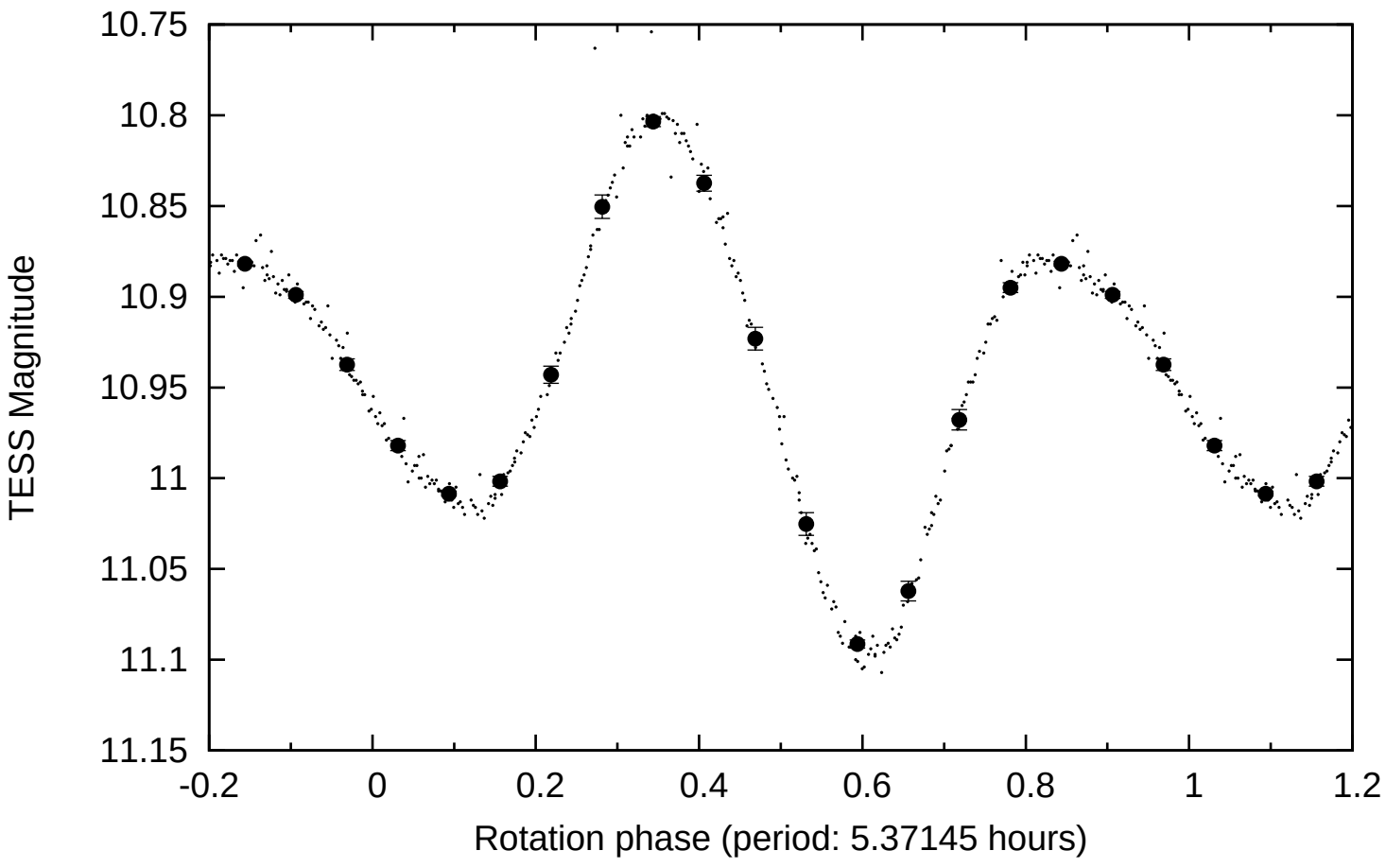

13.7
13.8
13.9
14
TESS Magnitude
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
Time (JD, t-2458395)

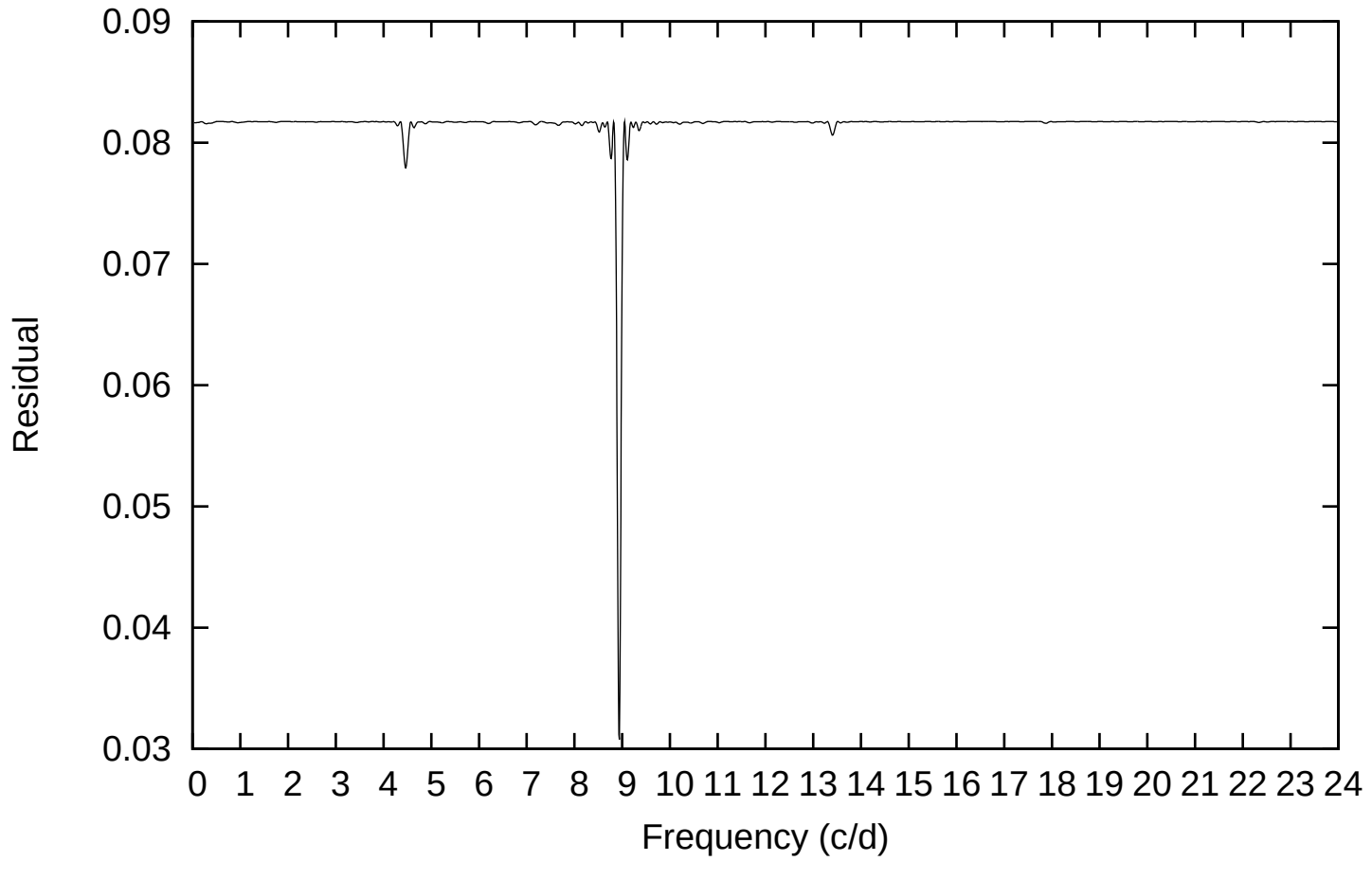

13.7
13.75
13.8
13.85
13.9
13.95
14
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 11.0065 hours)


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 21 22 23 24
Frequency (c/d)

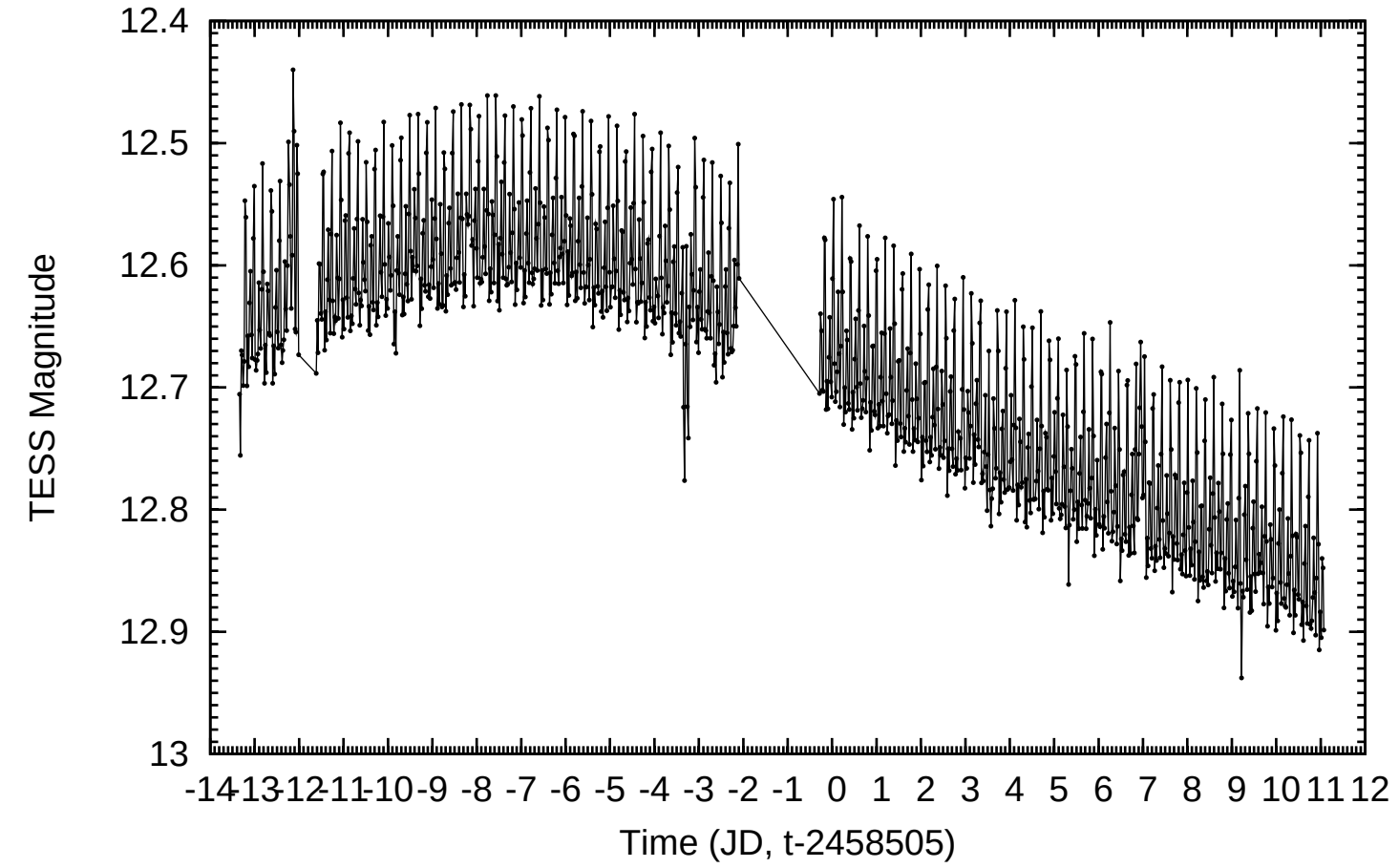
416

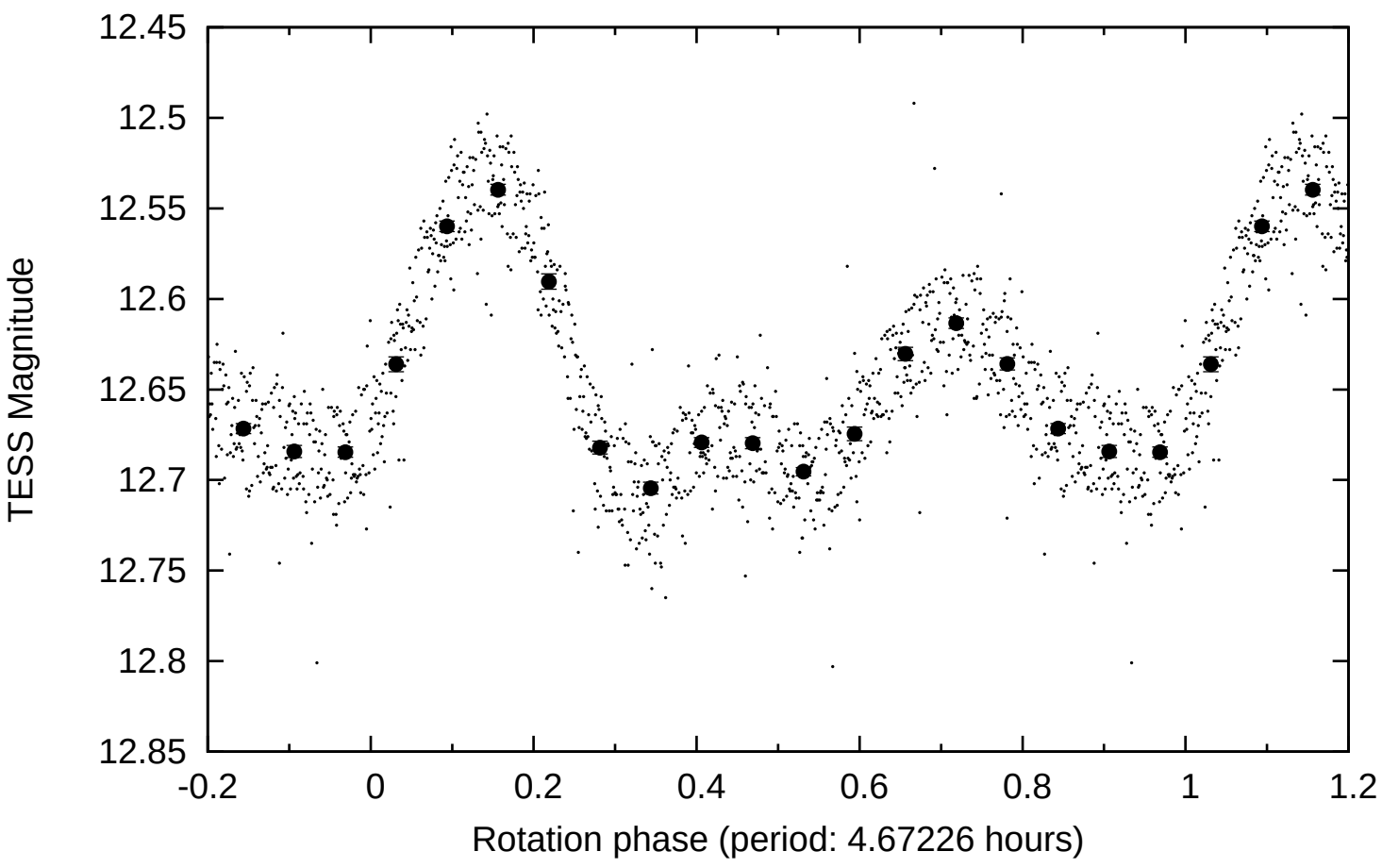

TESS Magnitude
10.7
10.8
10.9
11
11.1
11.2
2
3
4
5
6
7
8
9
10
11
Time (JD, t-2458370)

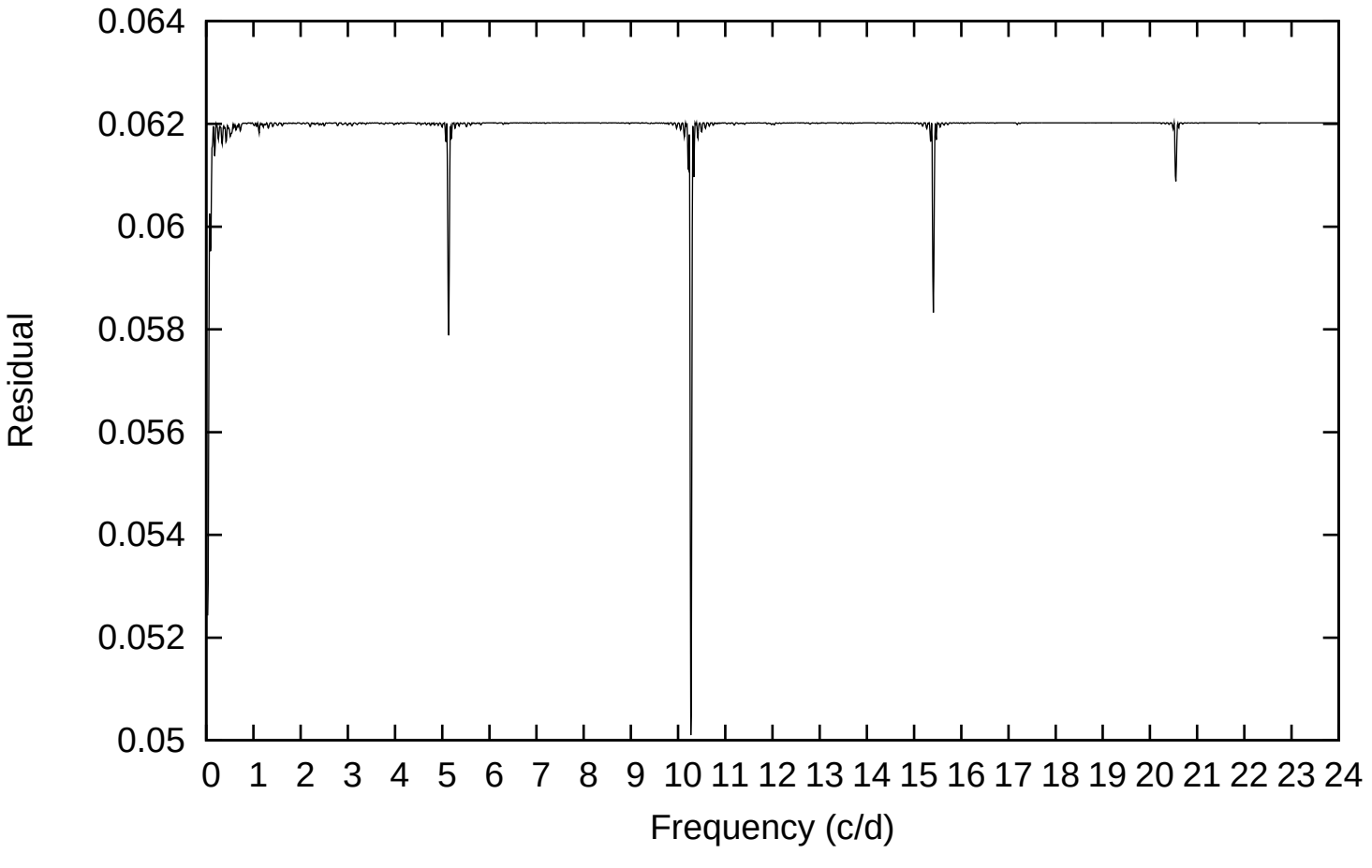

TESS Magnitude
10.75
10.8
10.85
10.9
10.95
11
11.05
11.1
11.15
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 5.37145 hours)


Residual
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 21 22 23 24
Frequency (c/d)

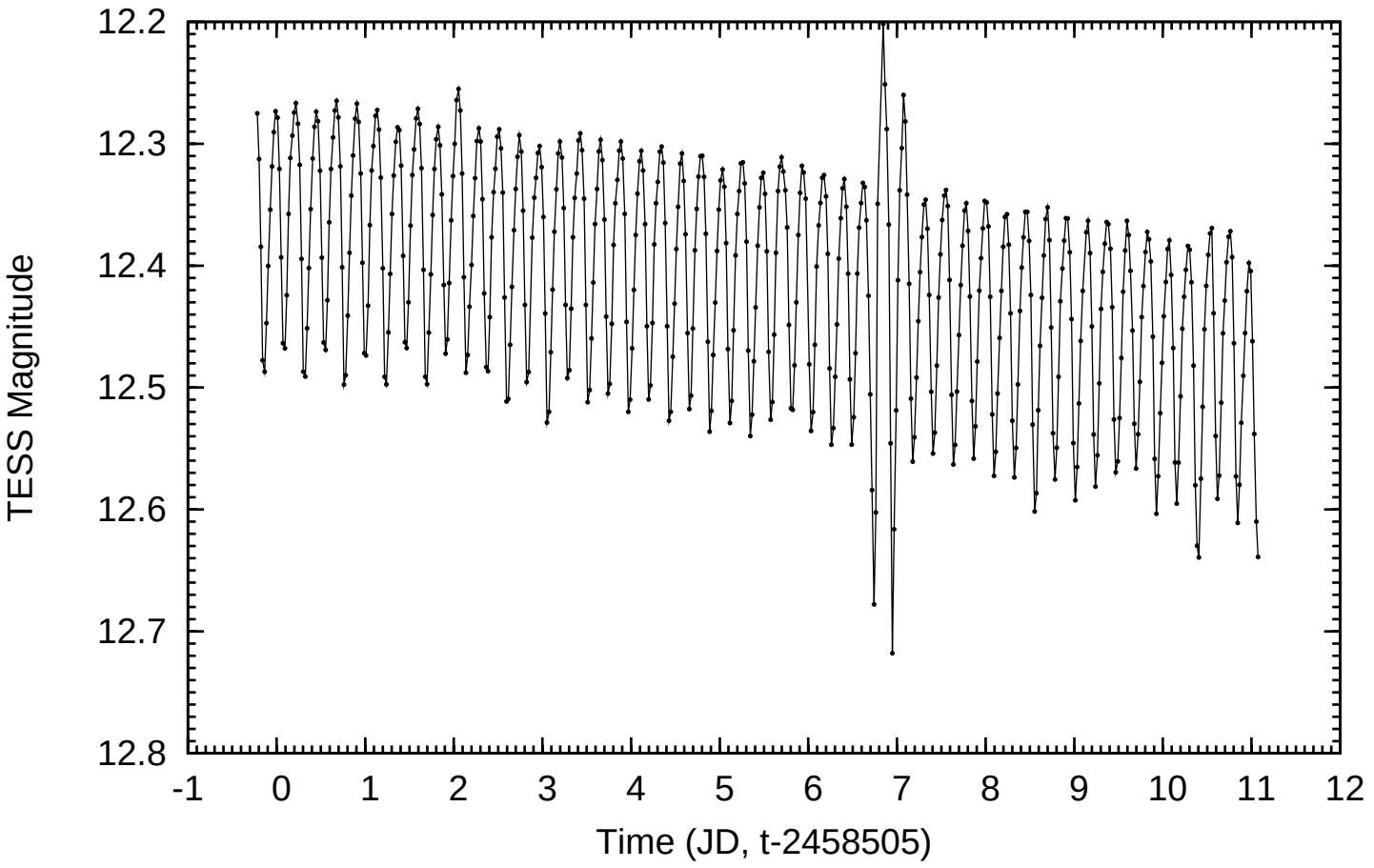
418

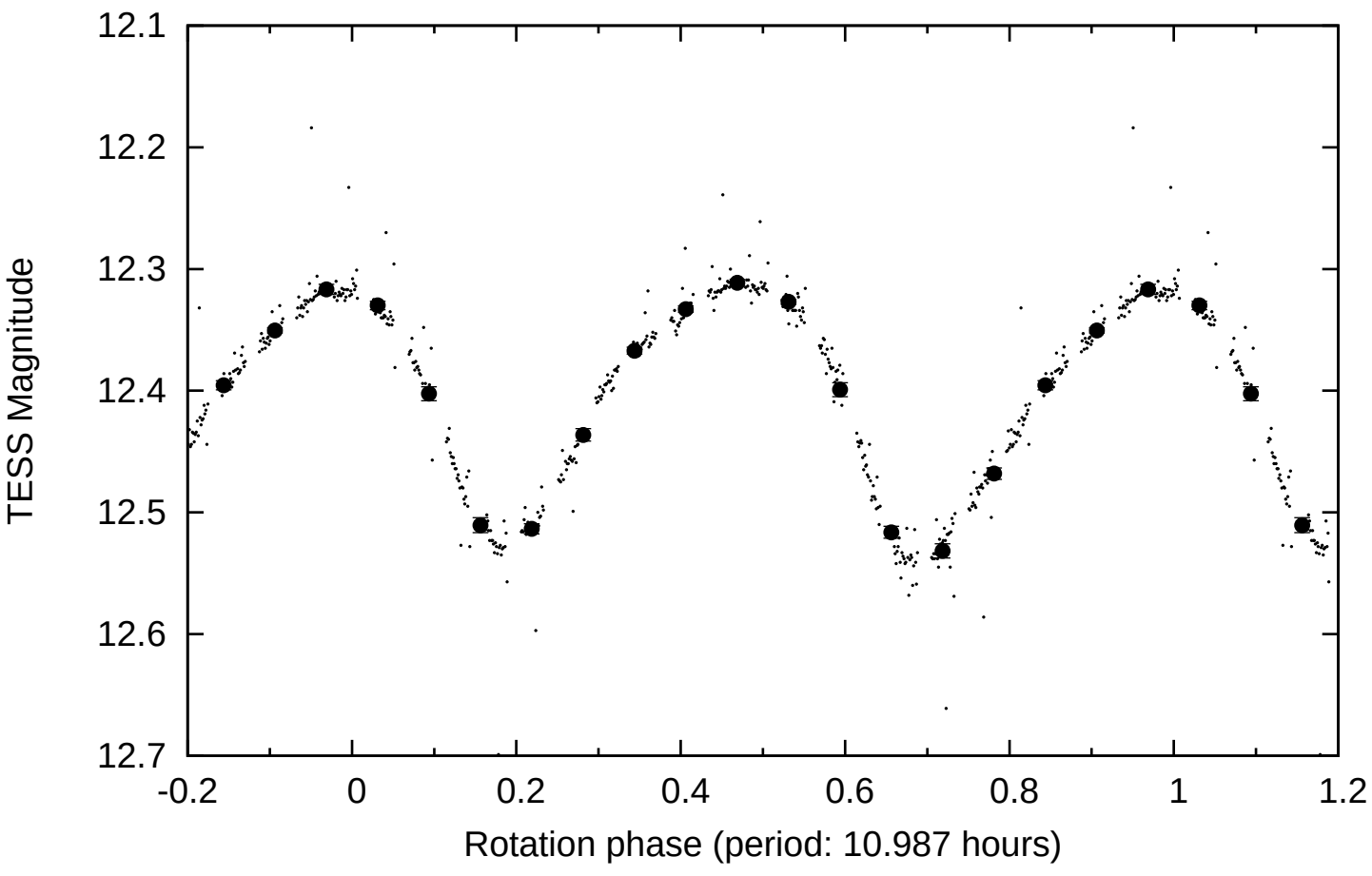

TESS Magnitude
12.4
12.5
12.6
12.7
12.8
12.9
13
-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458505)

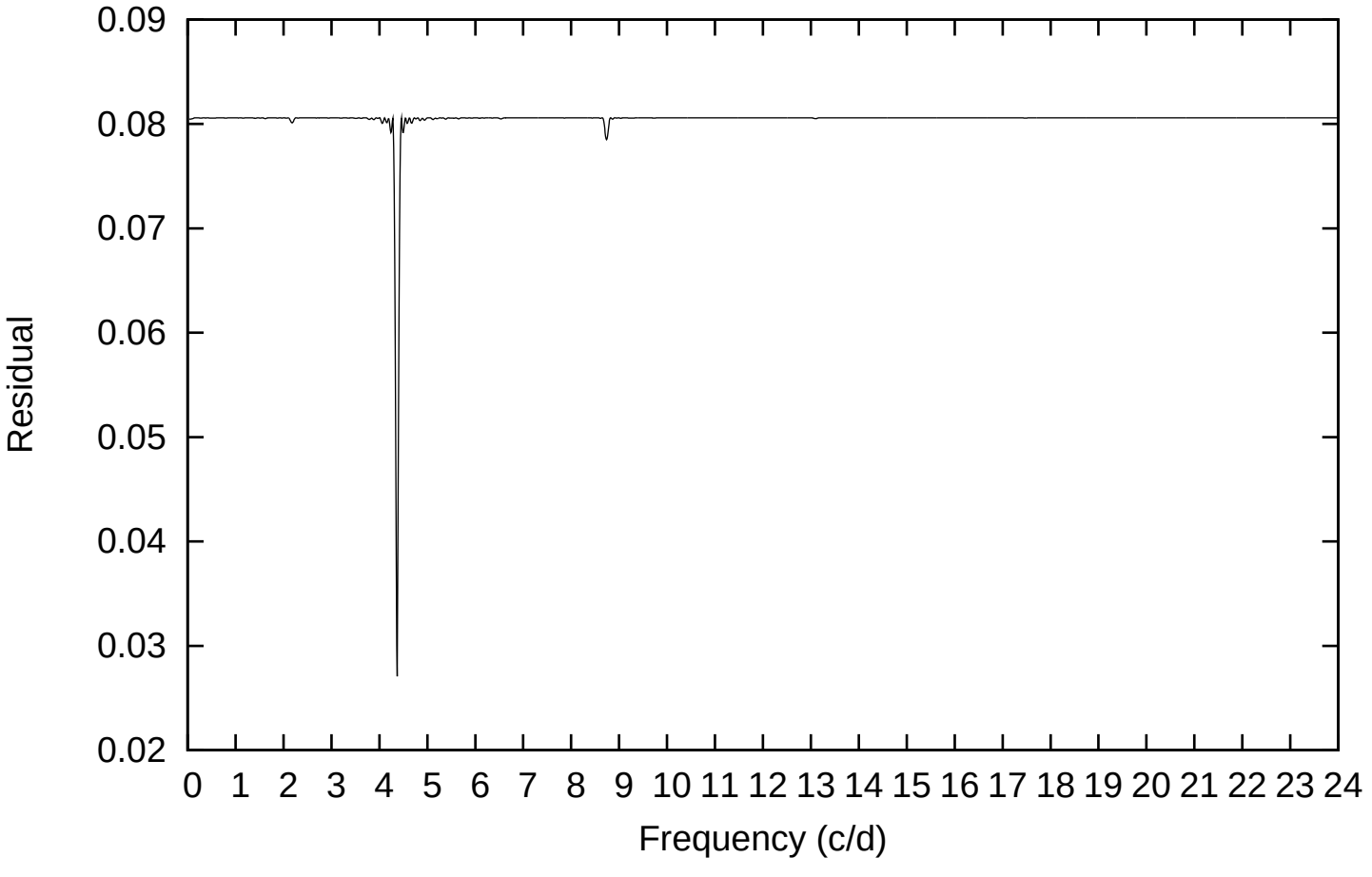

TESS Magnitude
12.45
12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 4.67226 hours)


Residual
0.064
0.062
0.06
0.058
0.056
0.054
0.052
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

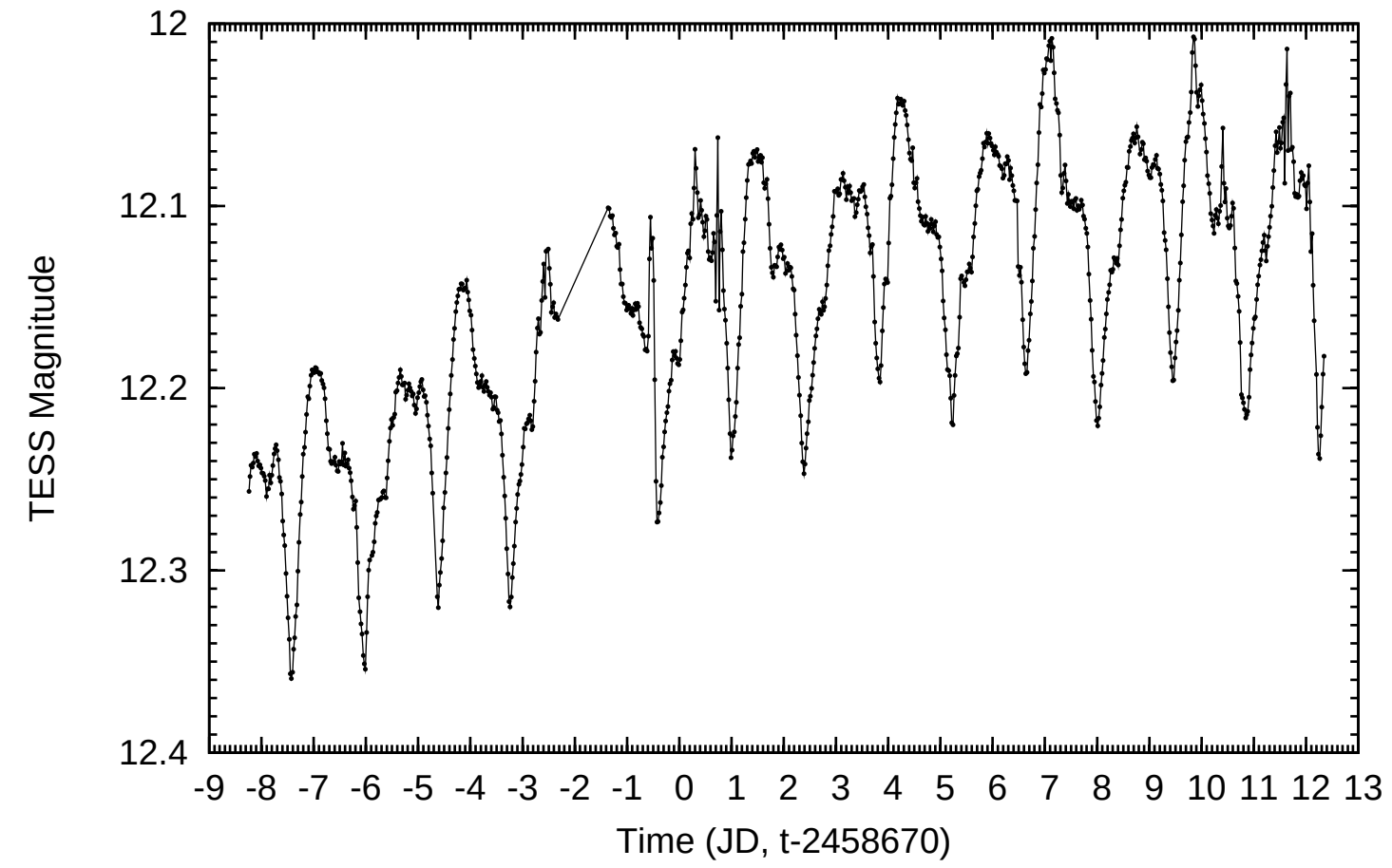
420

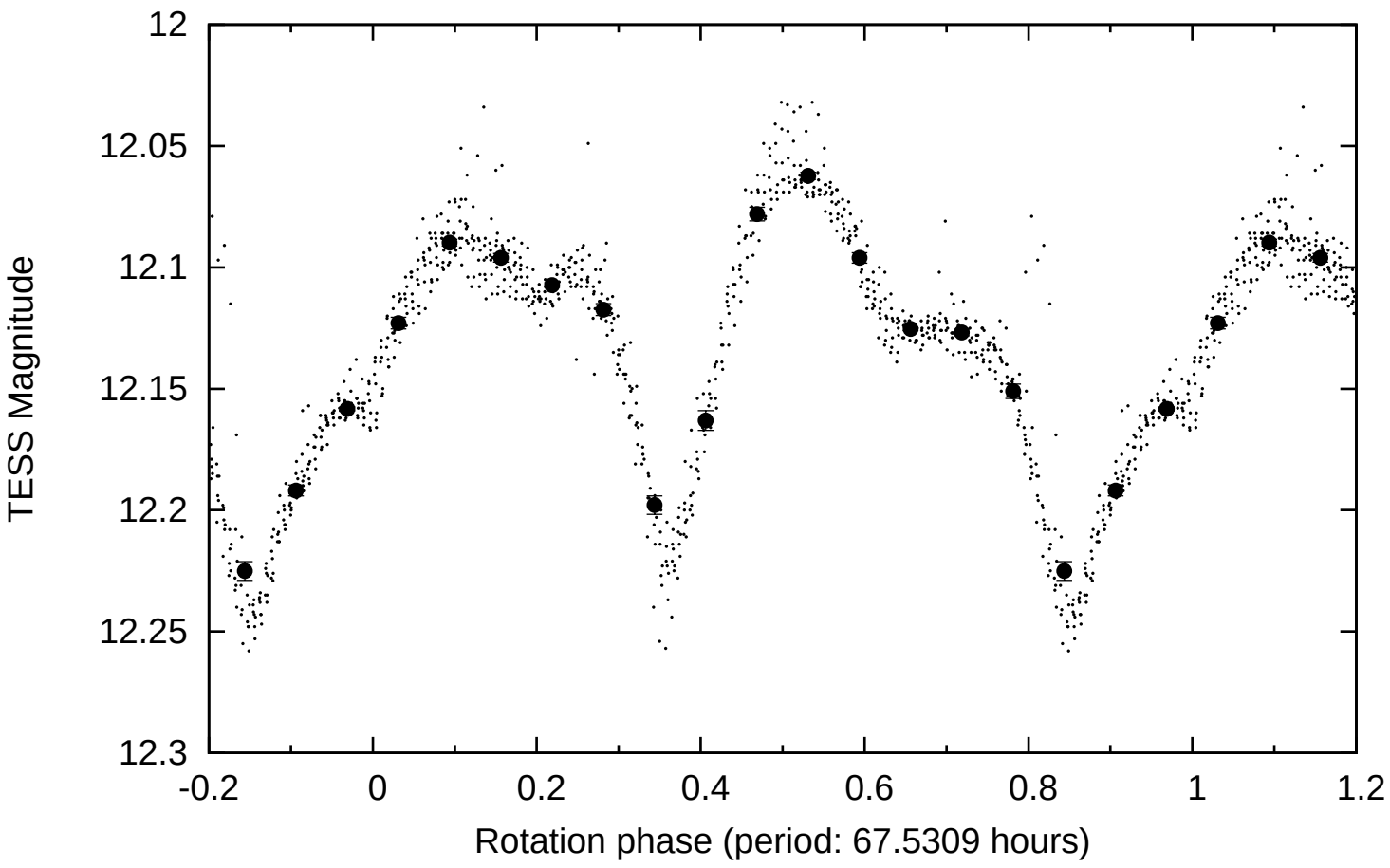

TESS Magnitude
12.2
12.3
12.4
12.5
12.6
12.7
12.8
-1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458505)

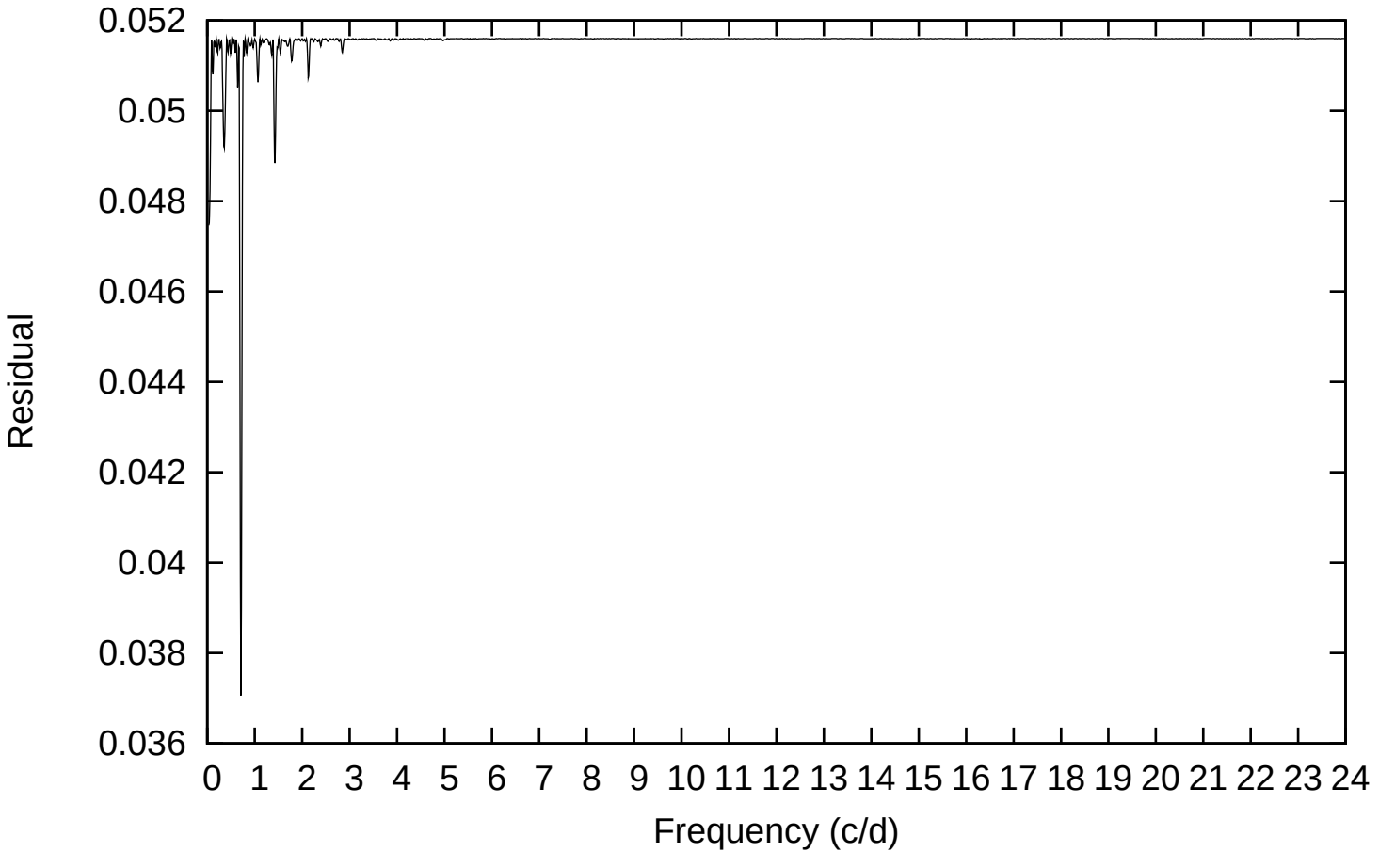

TESS Magnitude
12.1
12.2
12.3
12.4
12.5
12.6
12.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 10.987 hours)


Residual
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

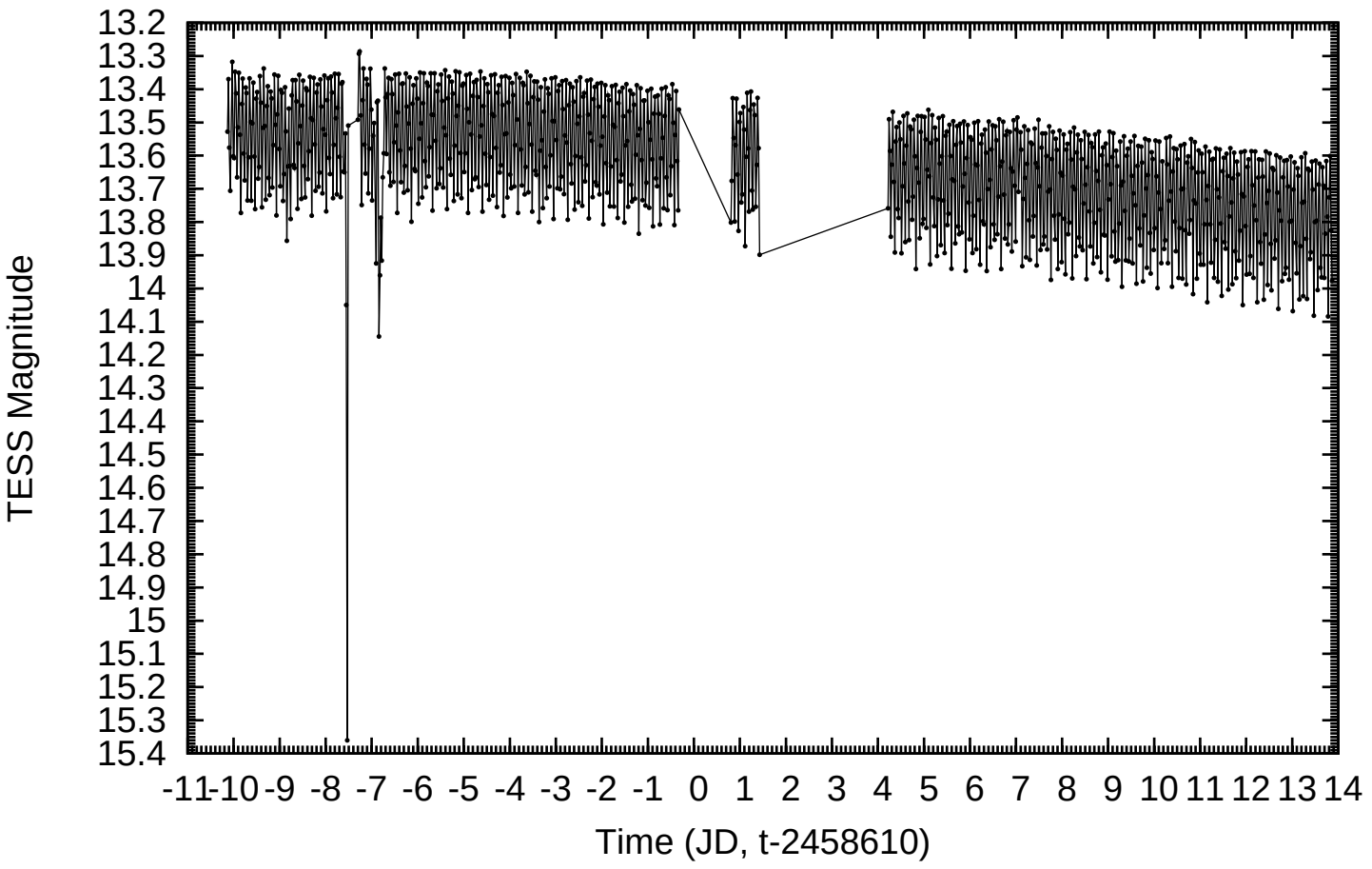
426

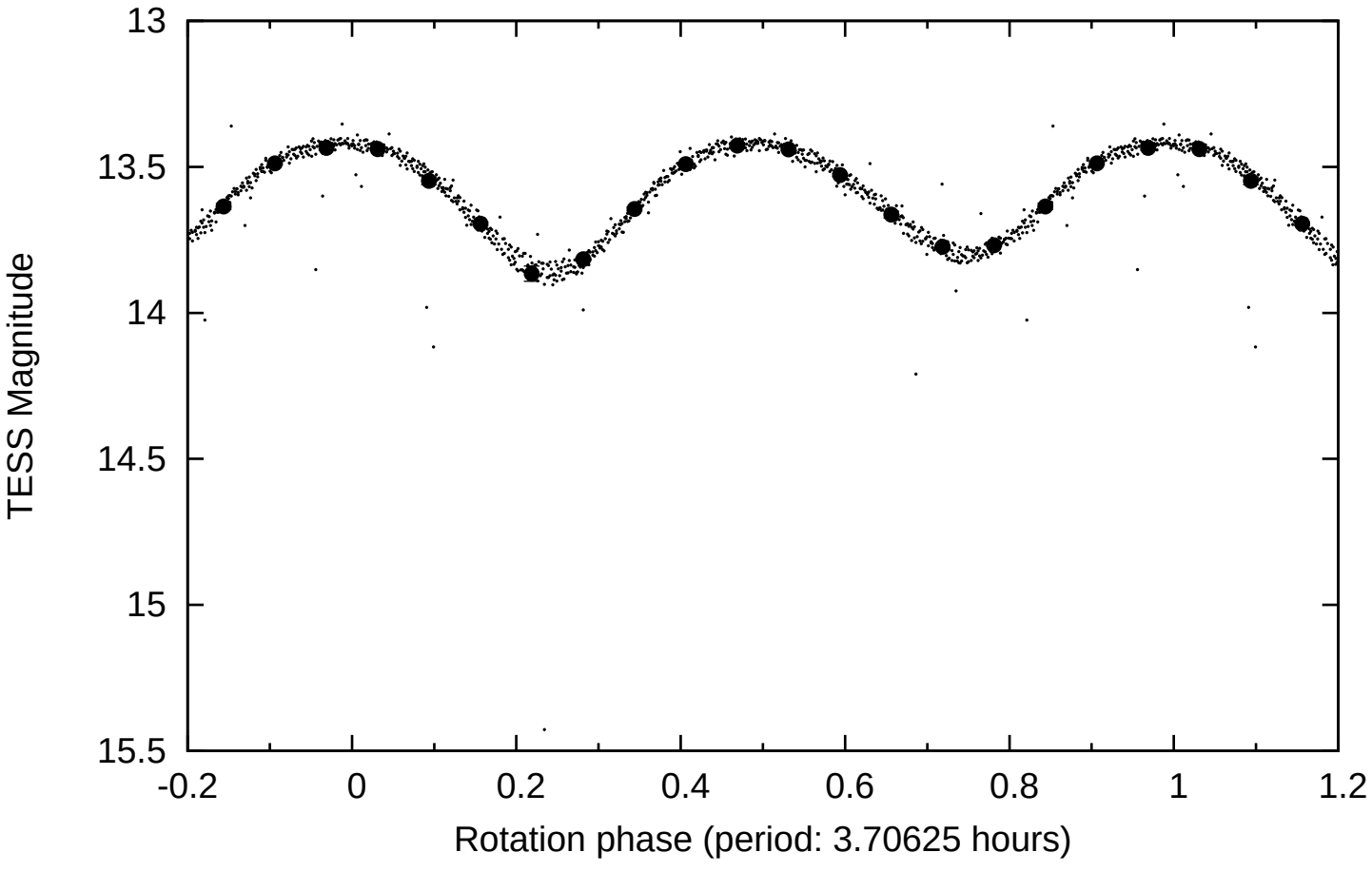

TESS Magnitude
12
12.1
12.2
12.3
12.4
-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458670)

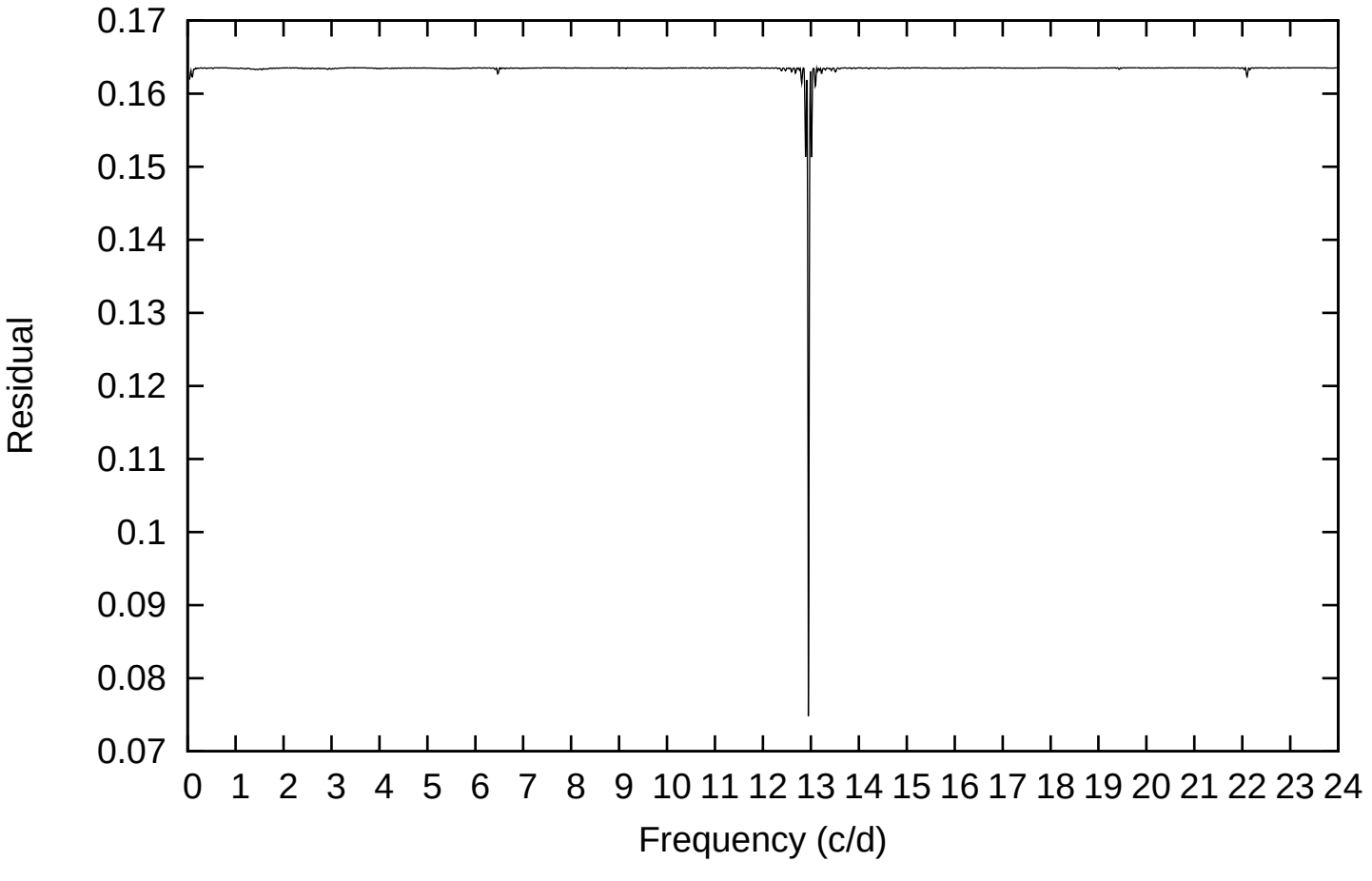

TESS Magnitude
12
12.05
12.1
12.15
12.2
12.25
12.3
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 67.5309 hours)


Residual
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 21 22 23 24
Frequency (c/d)

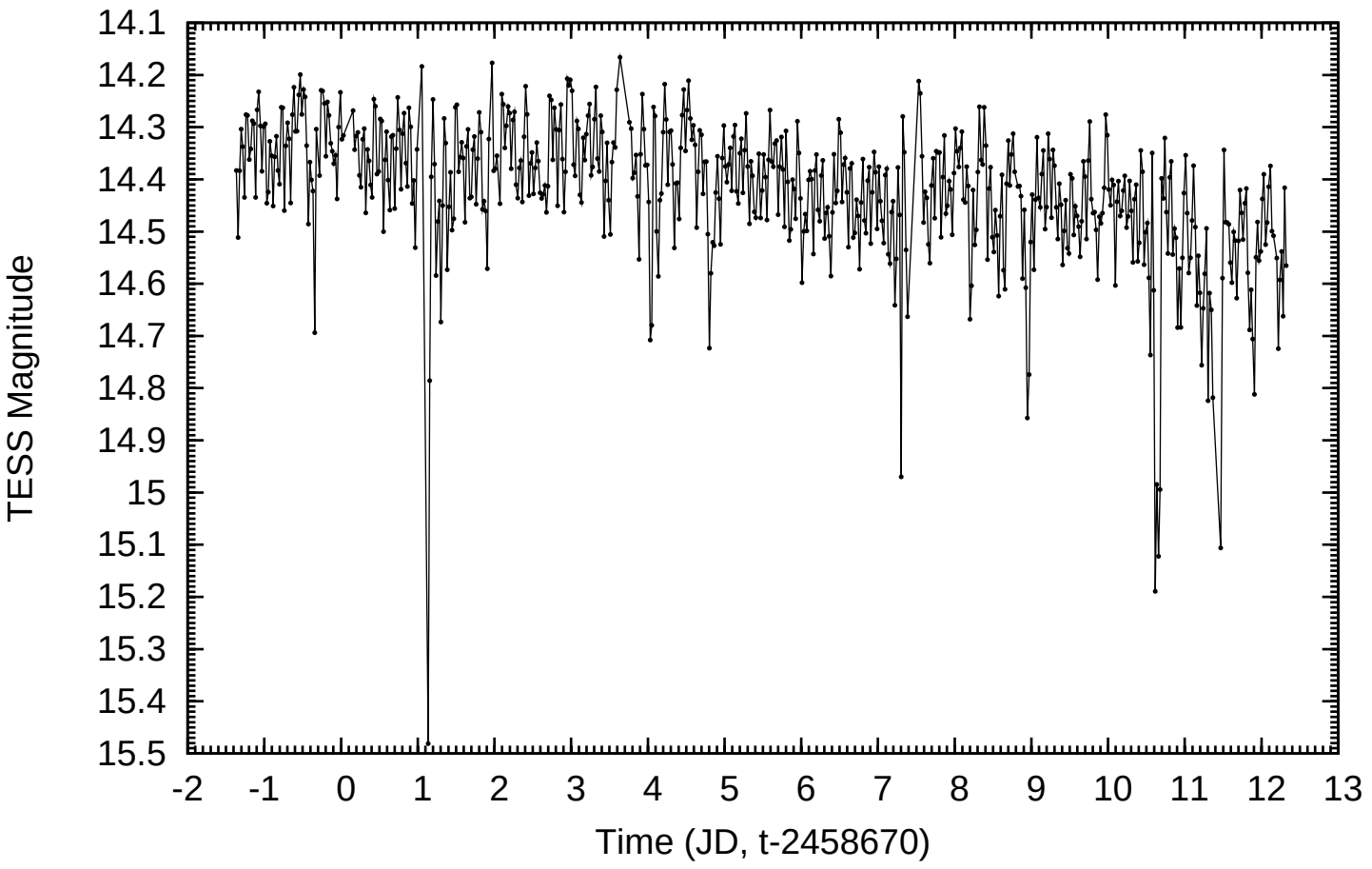
427

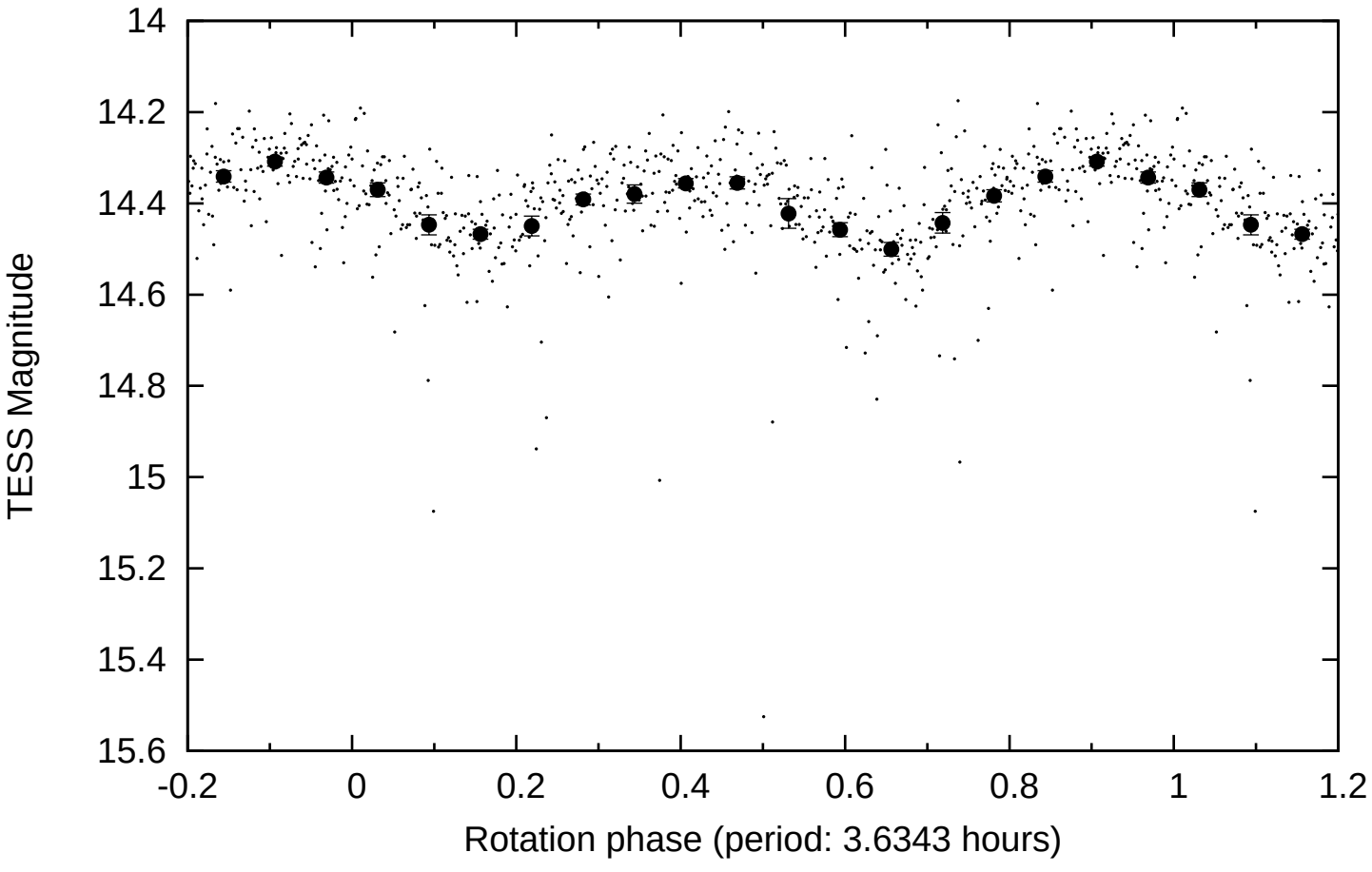

TESS Magnitude
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
14.6
14.7
14.8
14.9
15
15.1
15.2
15.3
15.4
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458610)

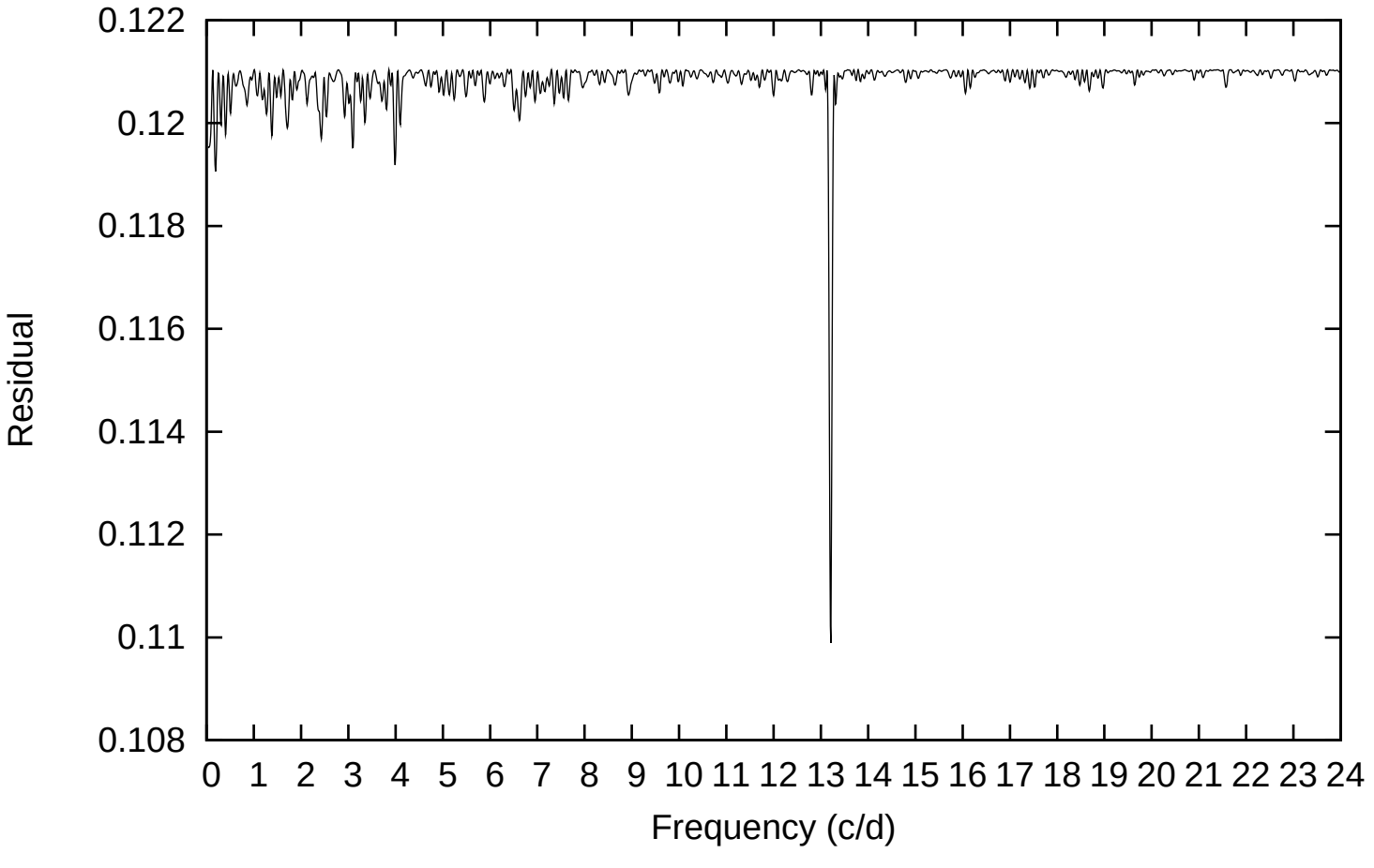

TESS Magnitude
13
13.5
14
14.5
15
15.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 3.70625 hours)


Residual
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

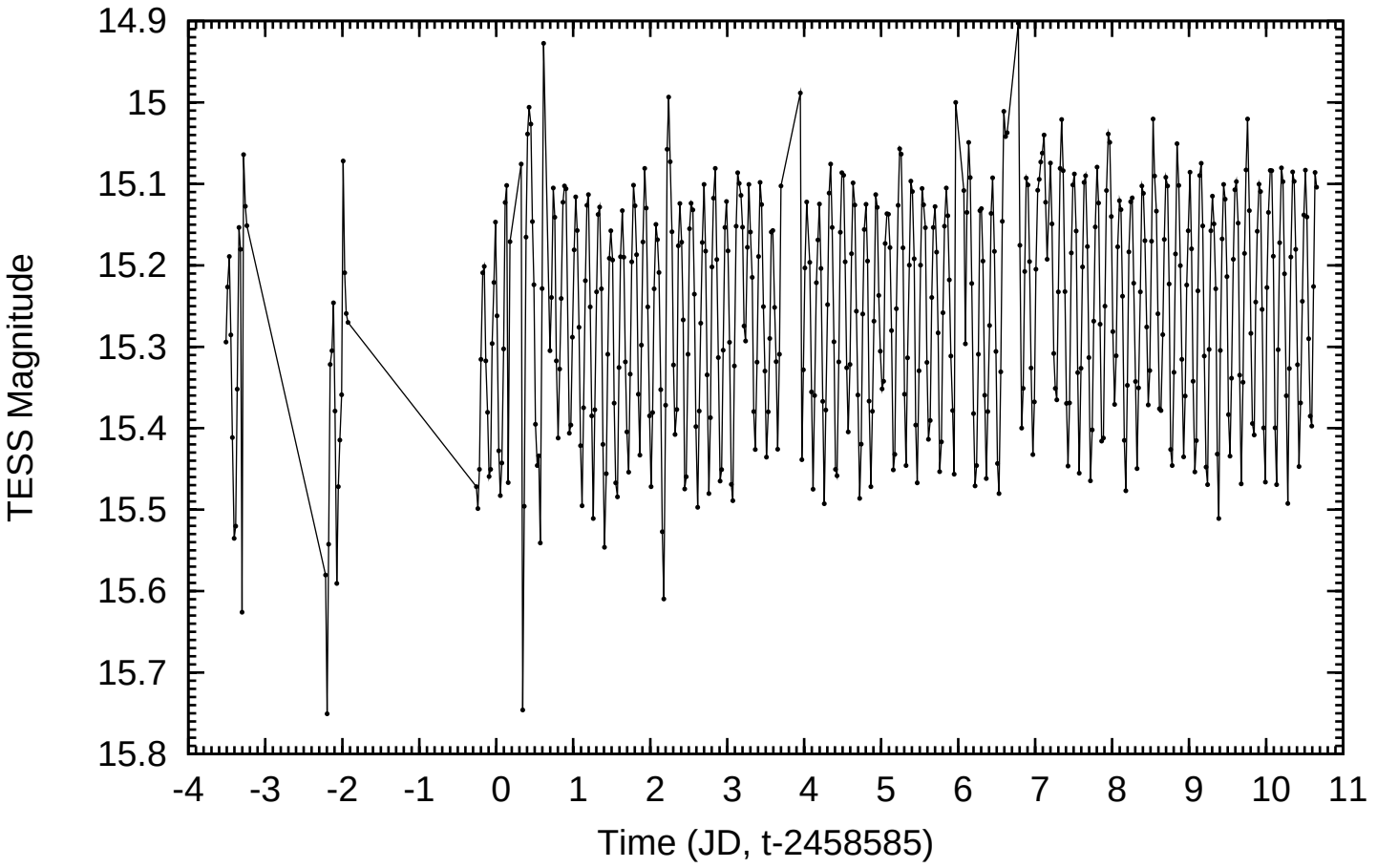
428

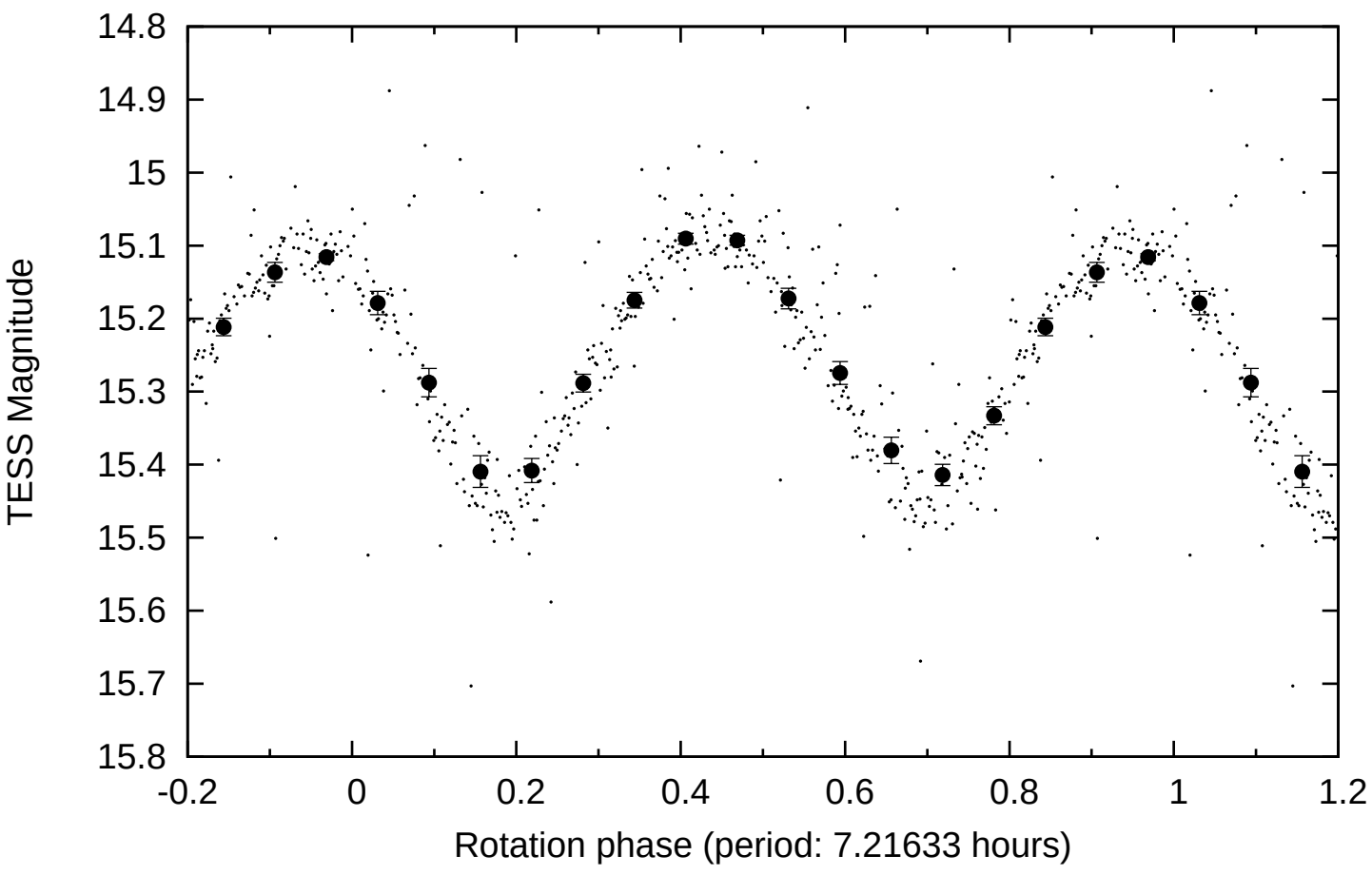

TESS Magnitude
14.1
14.2
14.3
14.4
14.5
14.6
14.7
14.8
14.9
15
15.1
15.2
15.3
15.4
15.5
-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458670)

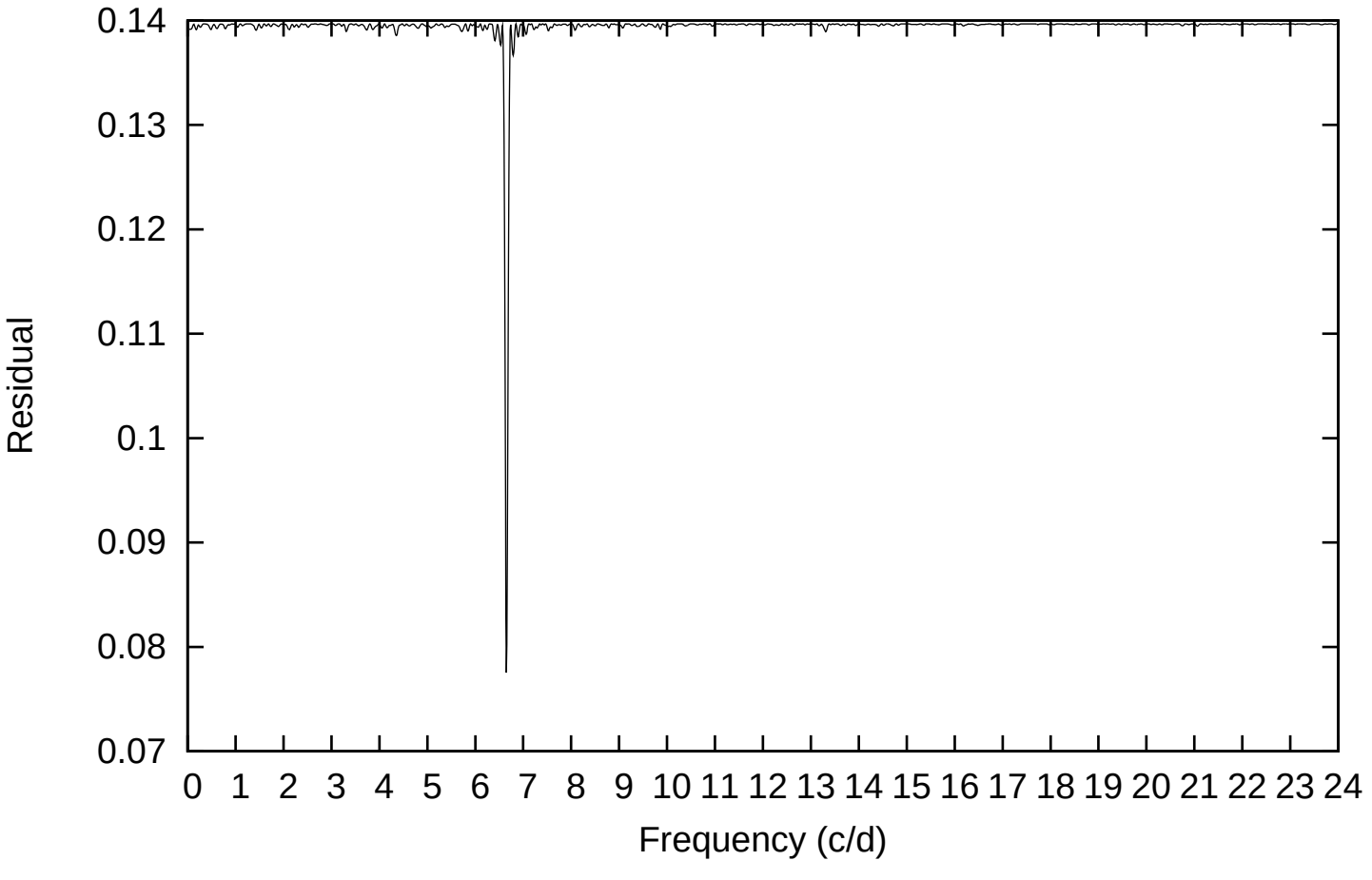

TESS Magnitude
14
14.2
14.4
14.6
14.8
15
15.2
15.4
15.6
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 3.6343 hours)


Residual
0.122
0.12
0.118
0.116
0.114
0.112
0.11
0.108
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

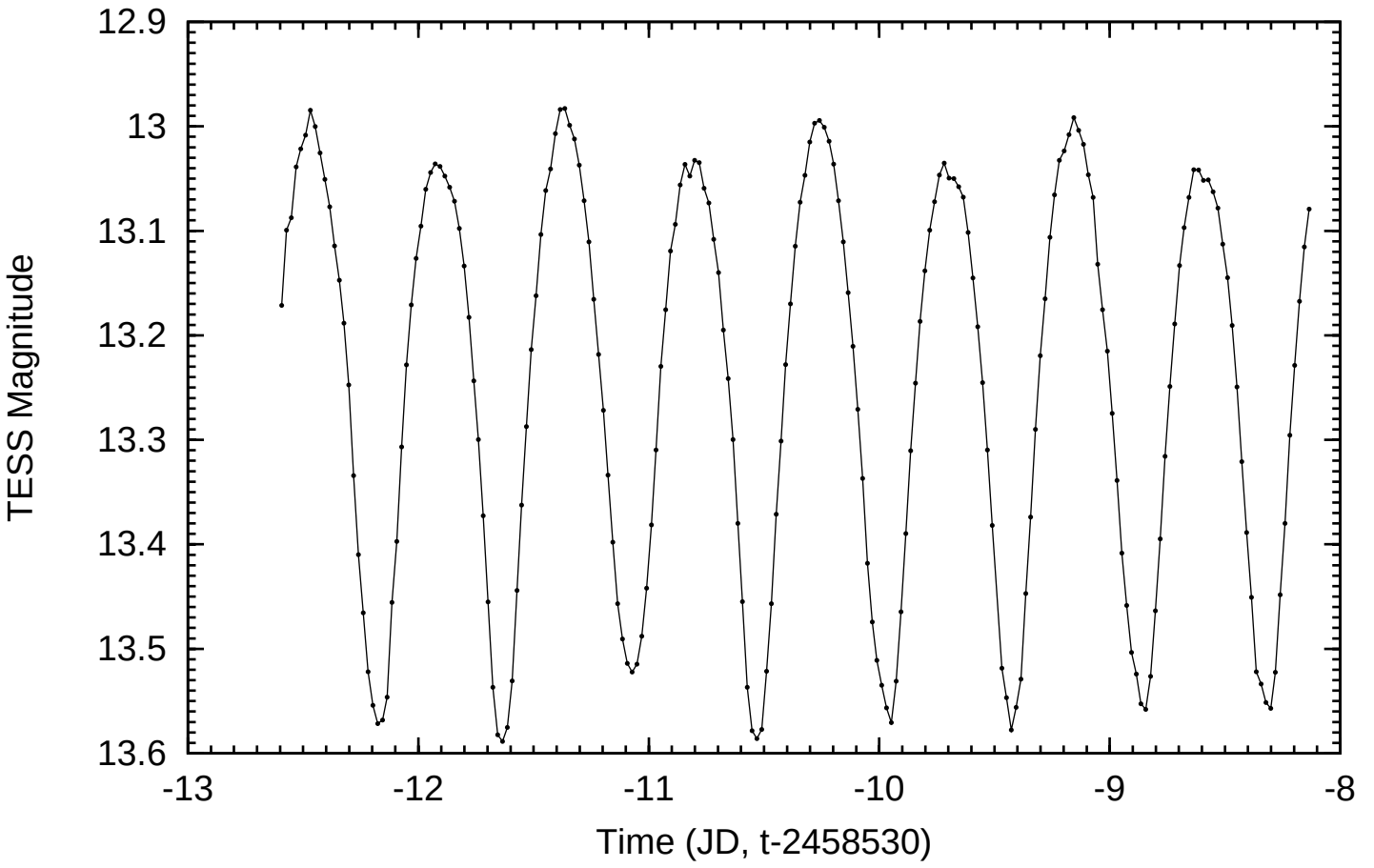
430

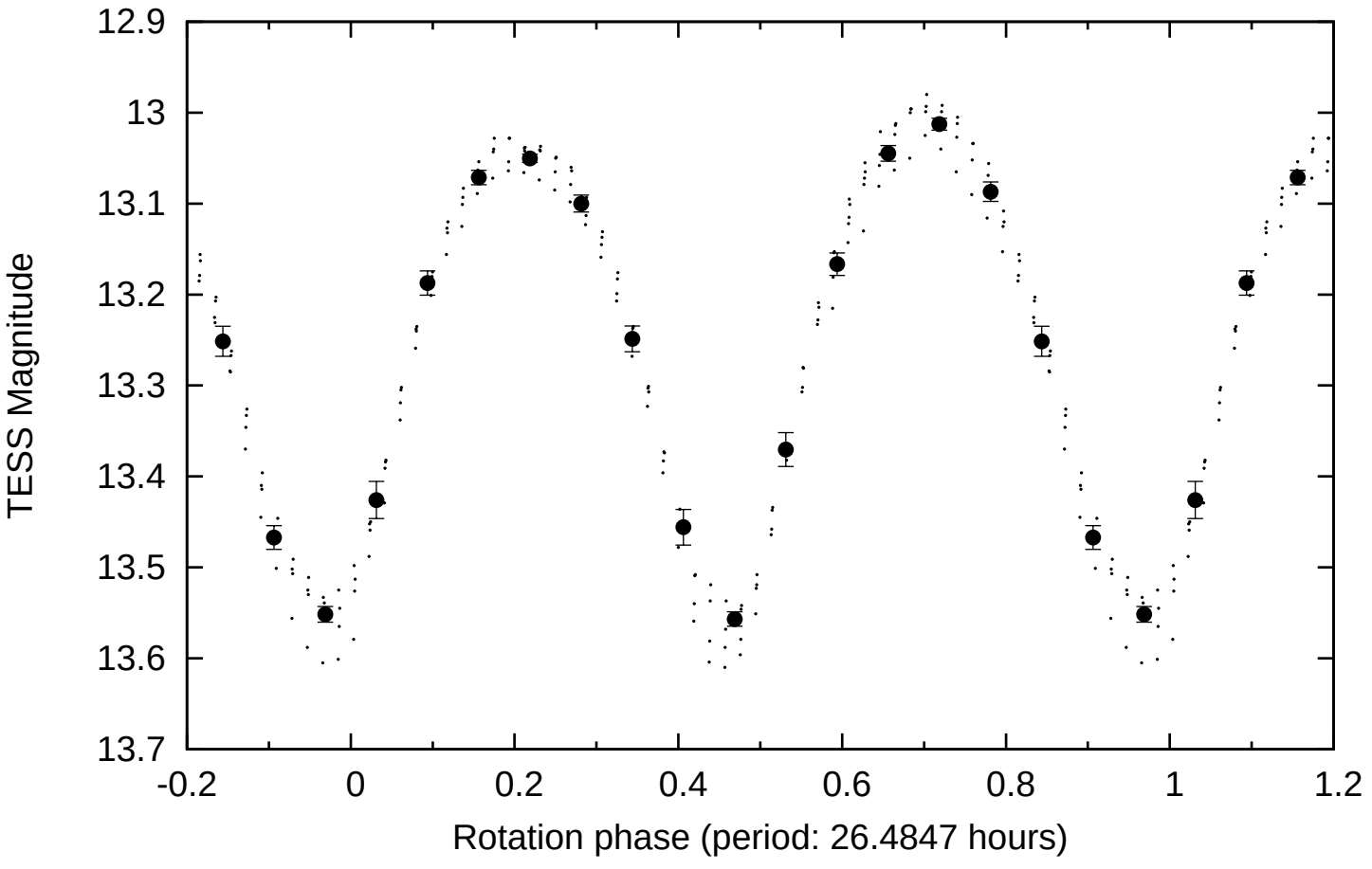

TESS Magnitude
14.9
15
15.1
15.2
15.3
15.4
15.5
15.6
15.7
15.8
-4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458585)

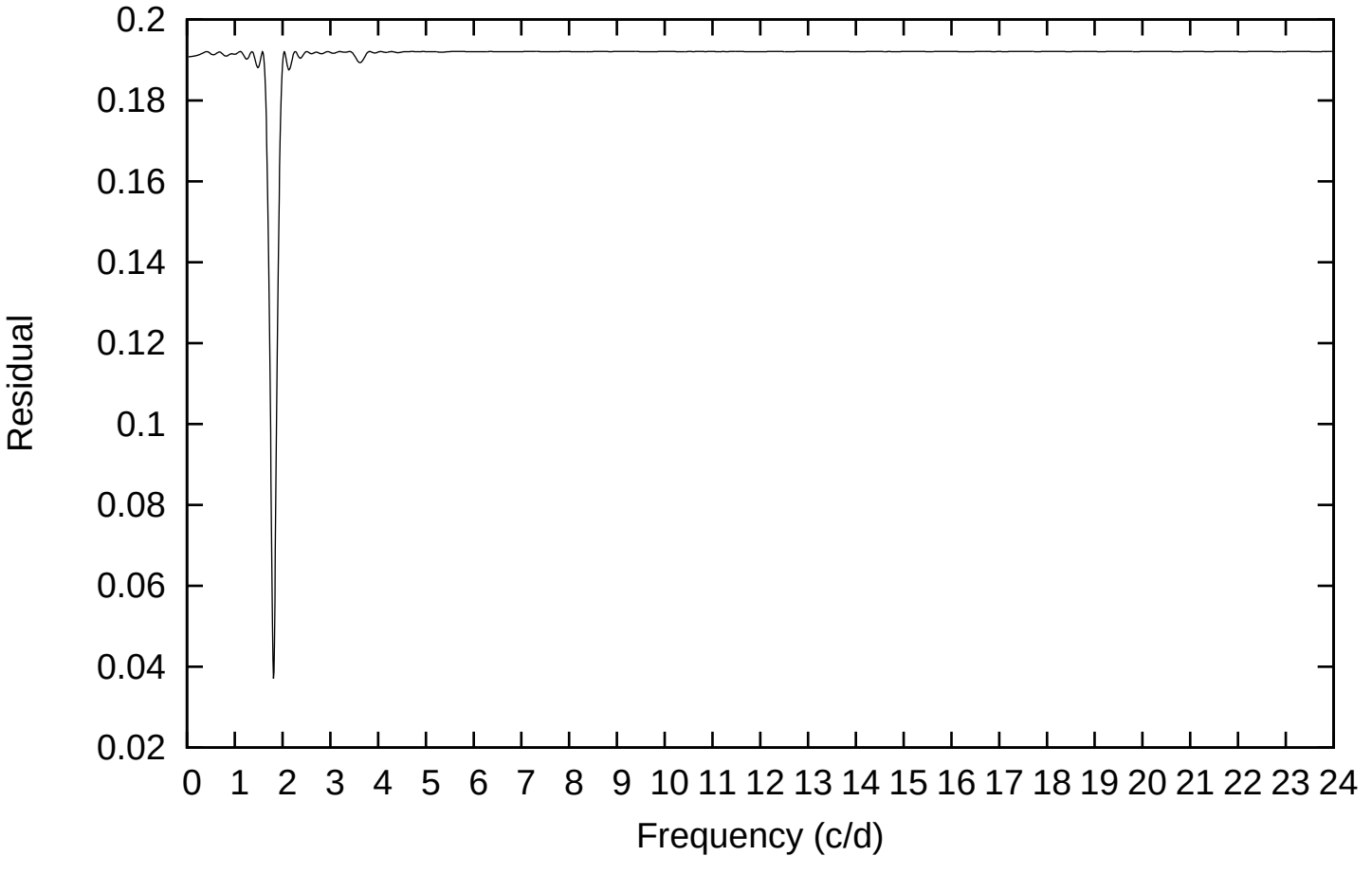

TESS Magnitude
14.8
14.9
15
15.1
15.2
15.3
15.4
15.5
15.6
15.7
15.8
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.21633 hours)


Residual
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

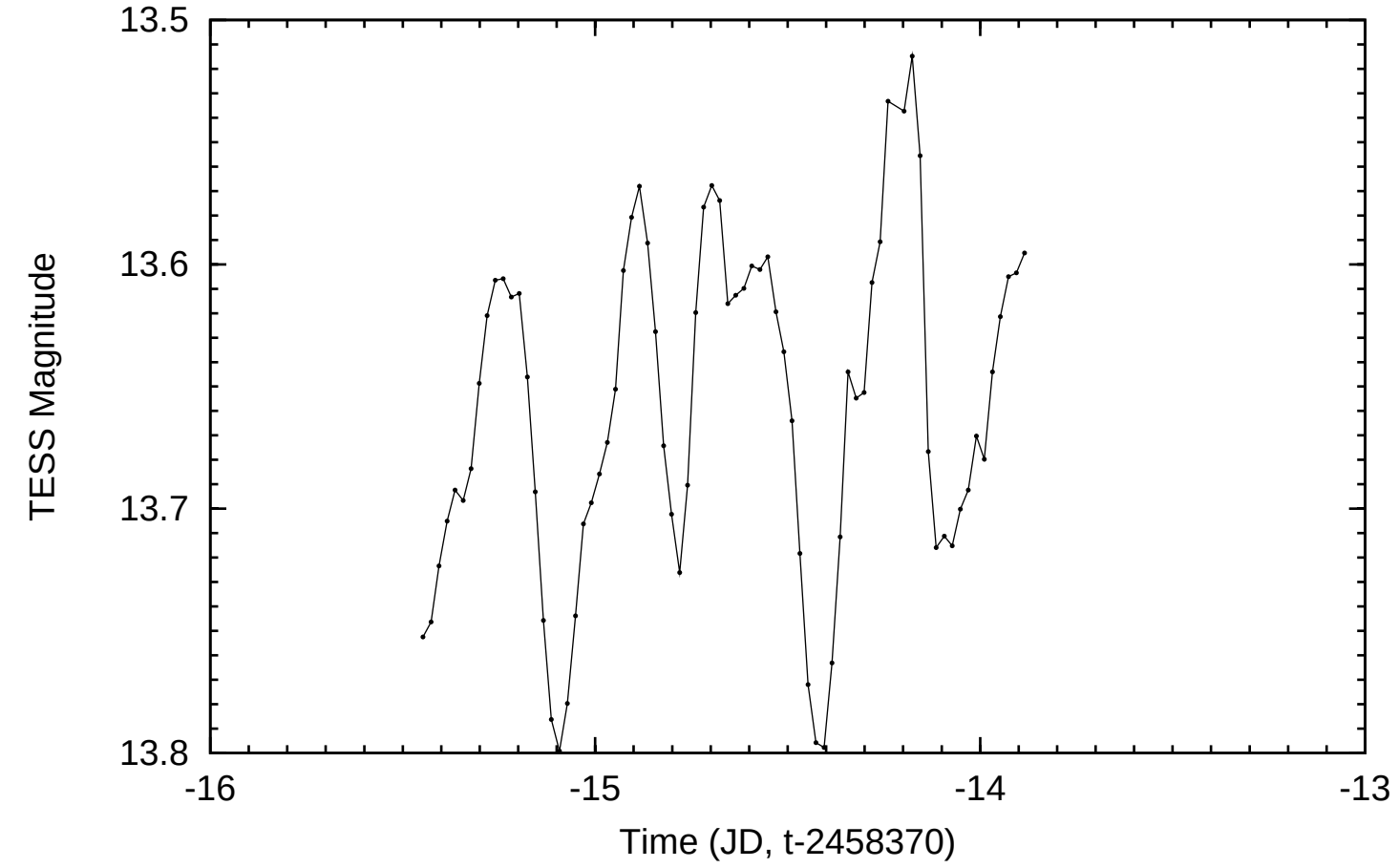
434

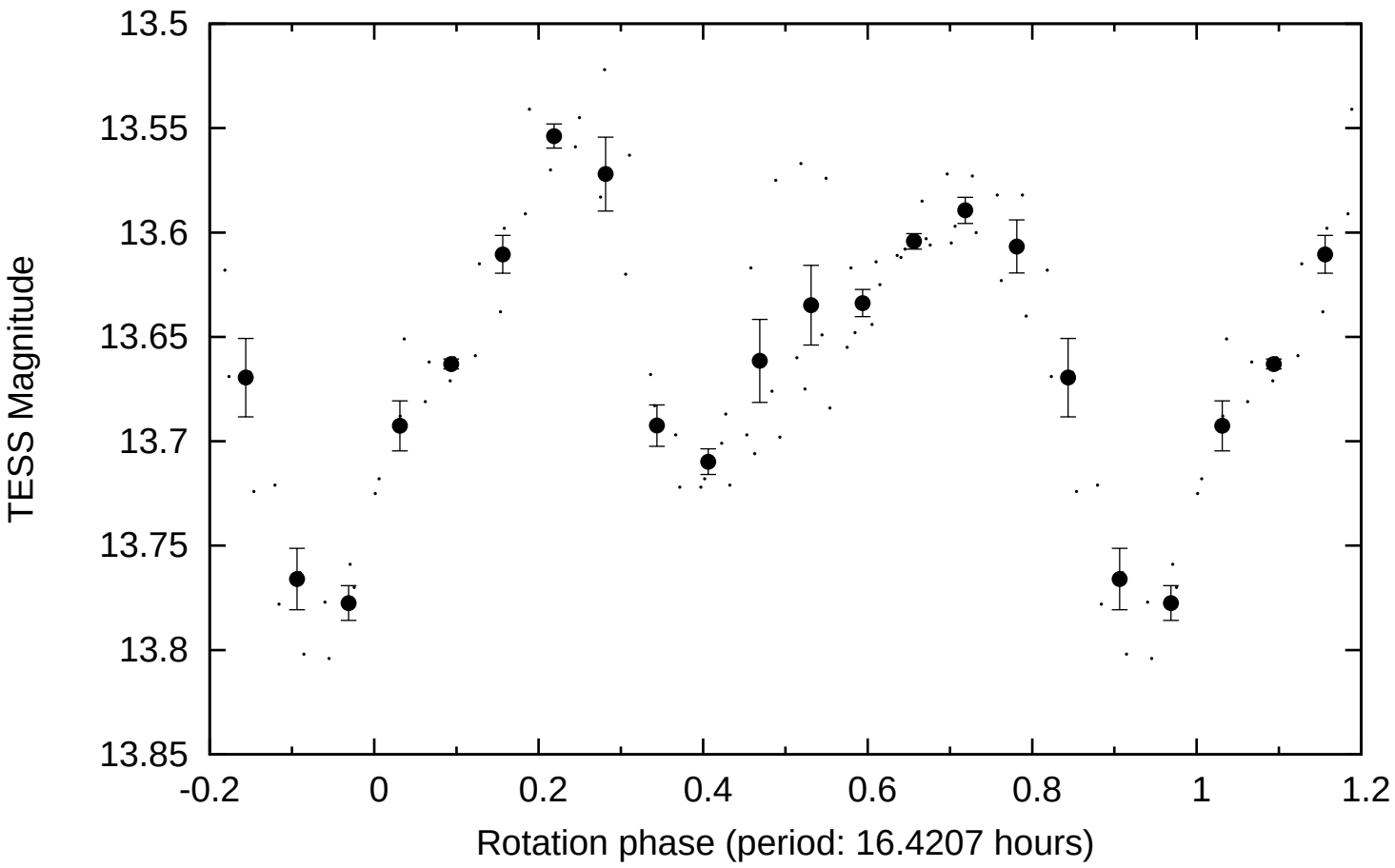

12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
TESS Magnitude
-13
-12
-11
-10
-9
-8
Time (JD, t-2458530)

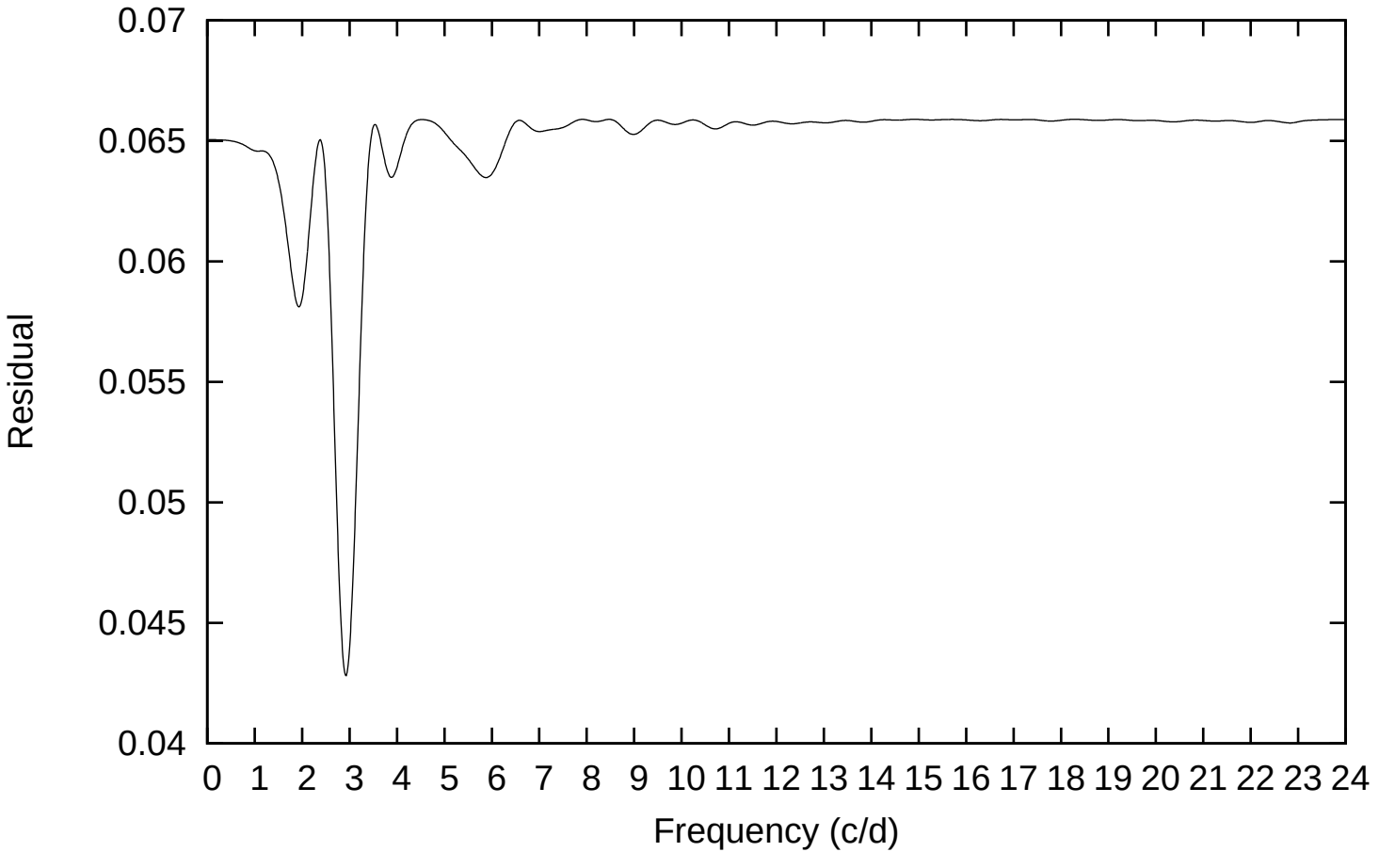

12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 26.4847 hours)


0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

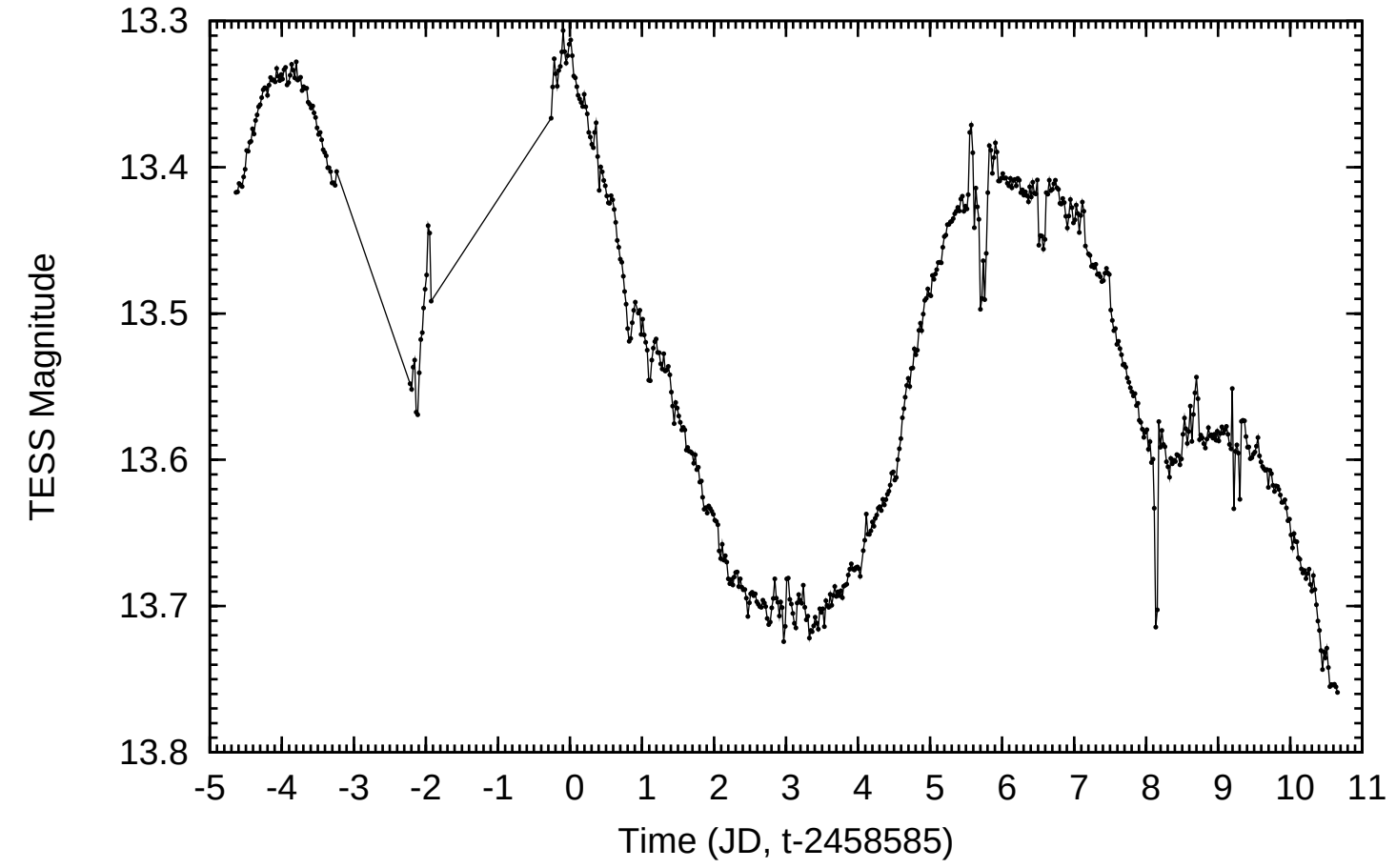
436

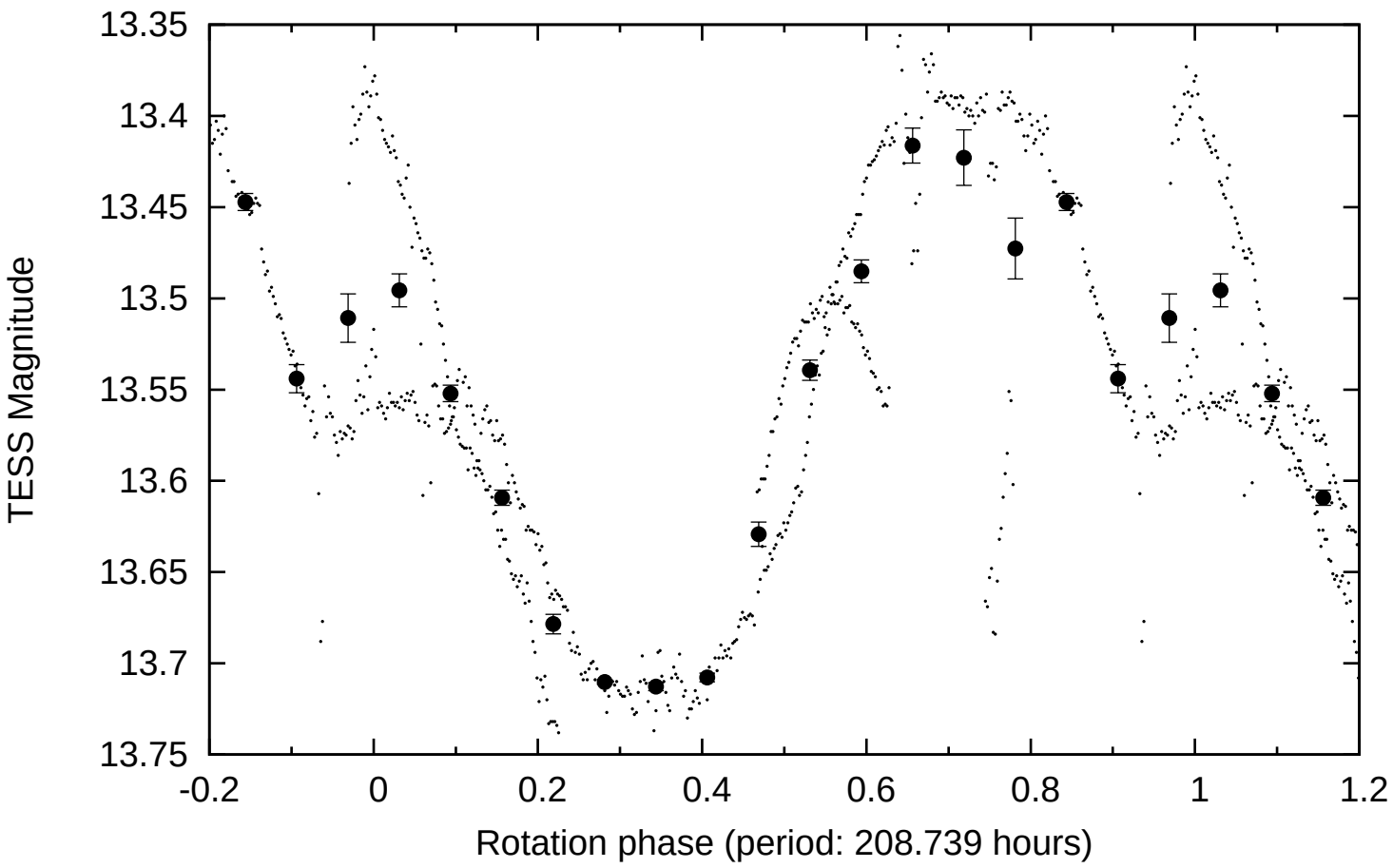

13.5
13.6
13.7
13.8
TESS Magnitude
-16
-15
-14
-13
Time (JD, t-2458370)

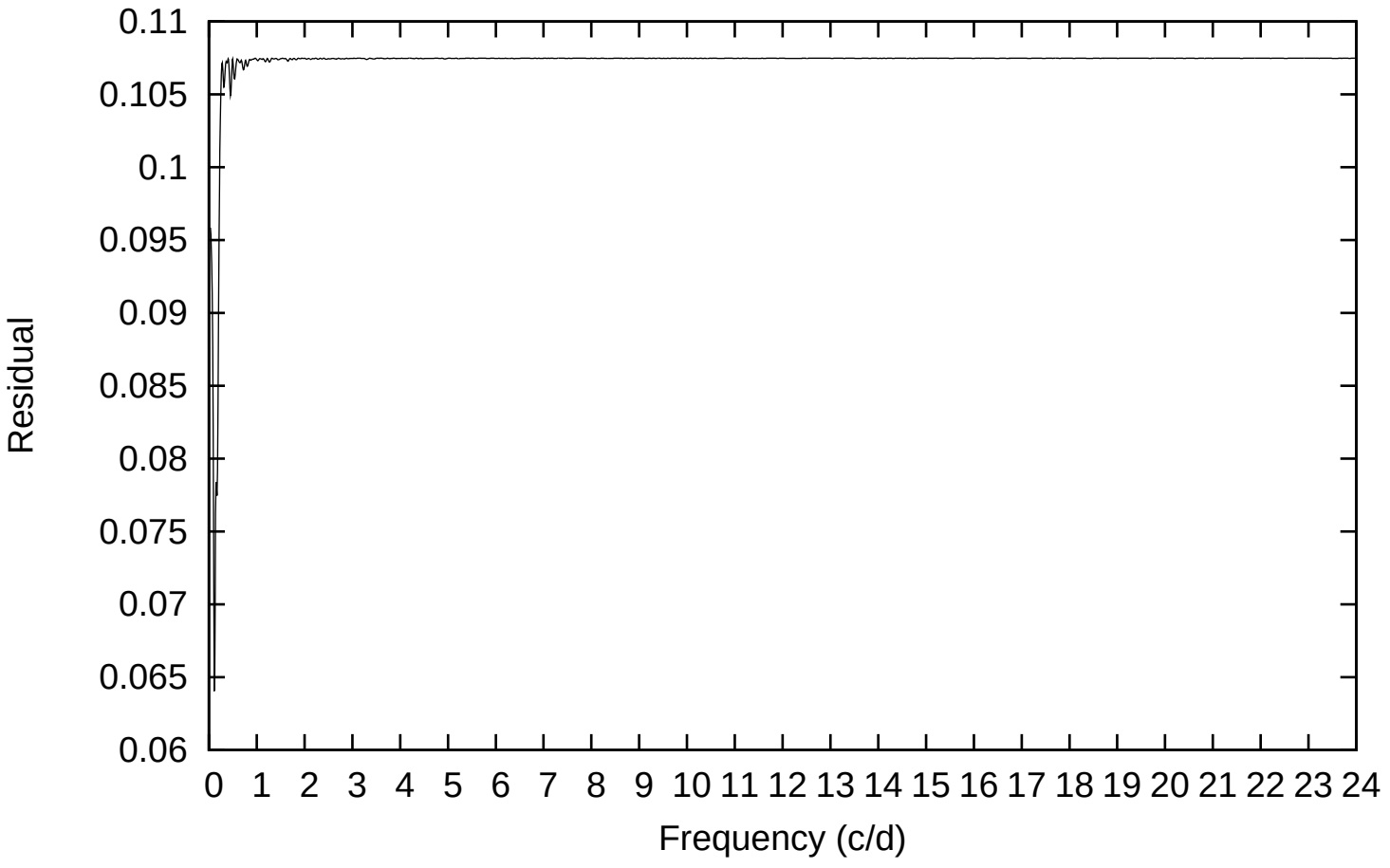

13.5
13.55
13.6
13.65
13.7
13.75
13.8
13.85
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 16.4207 hours)


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 21 22 23 24
Frequency (c/d)

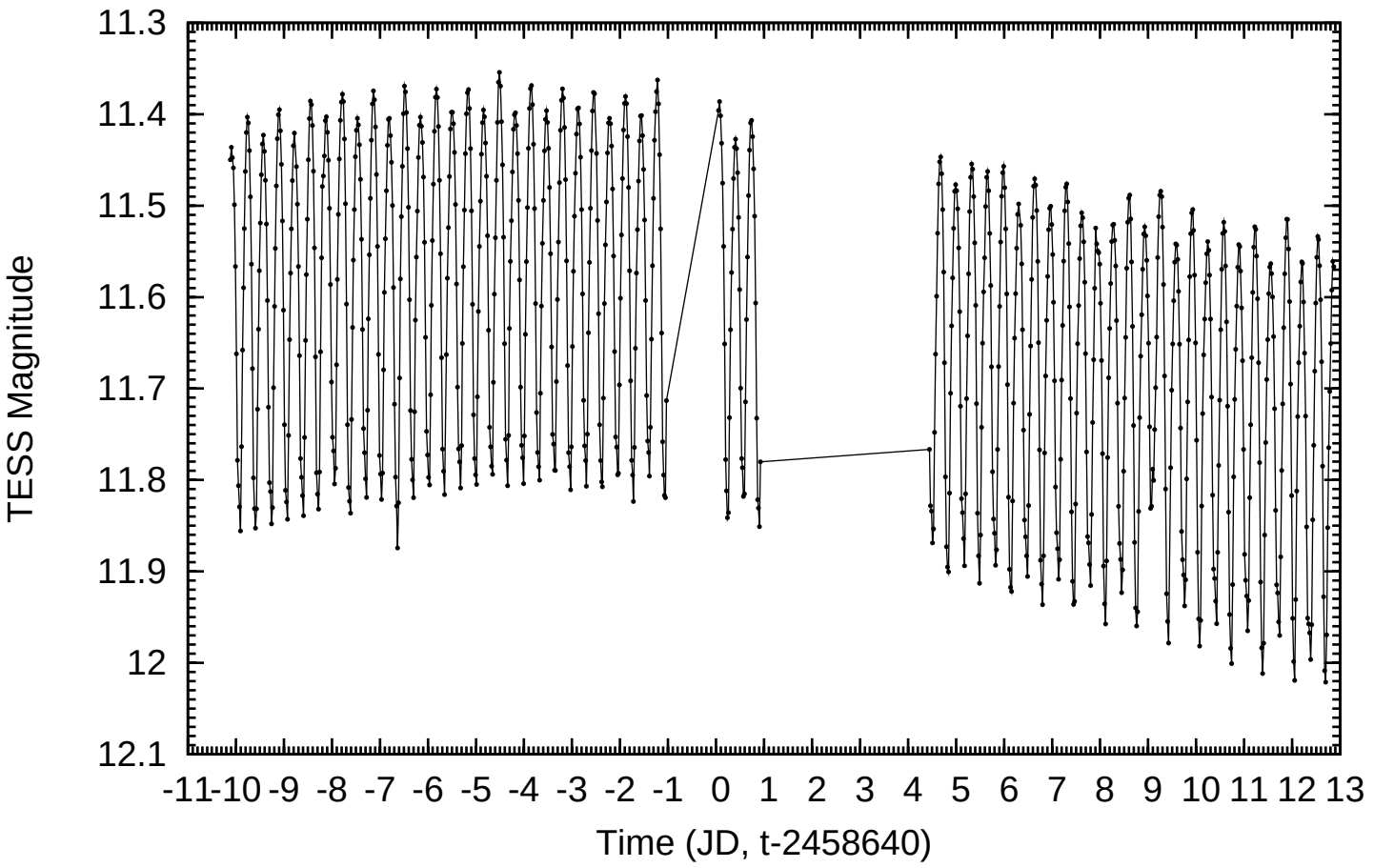
437

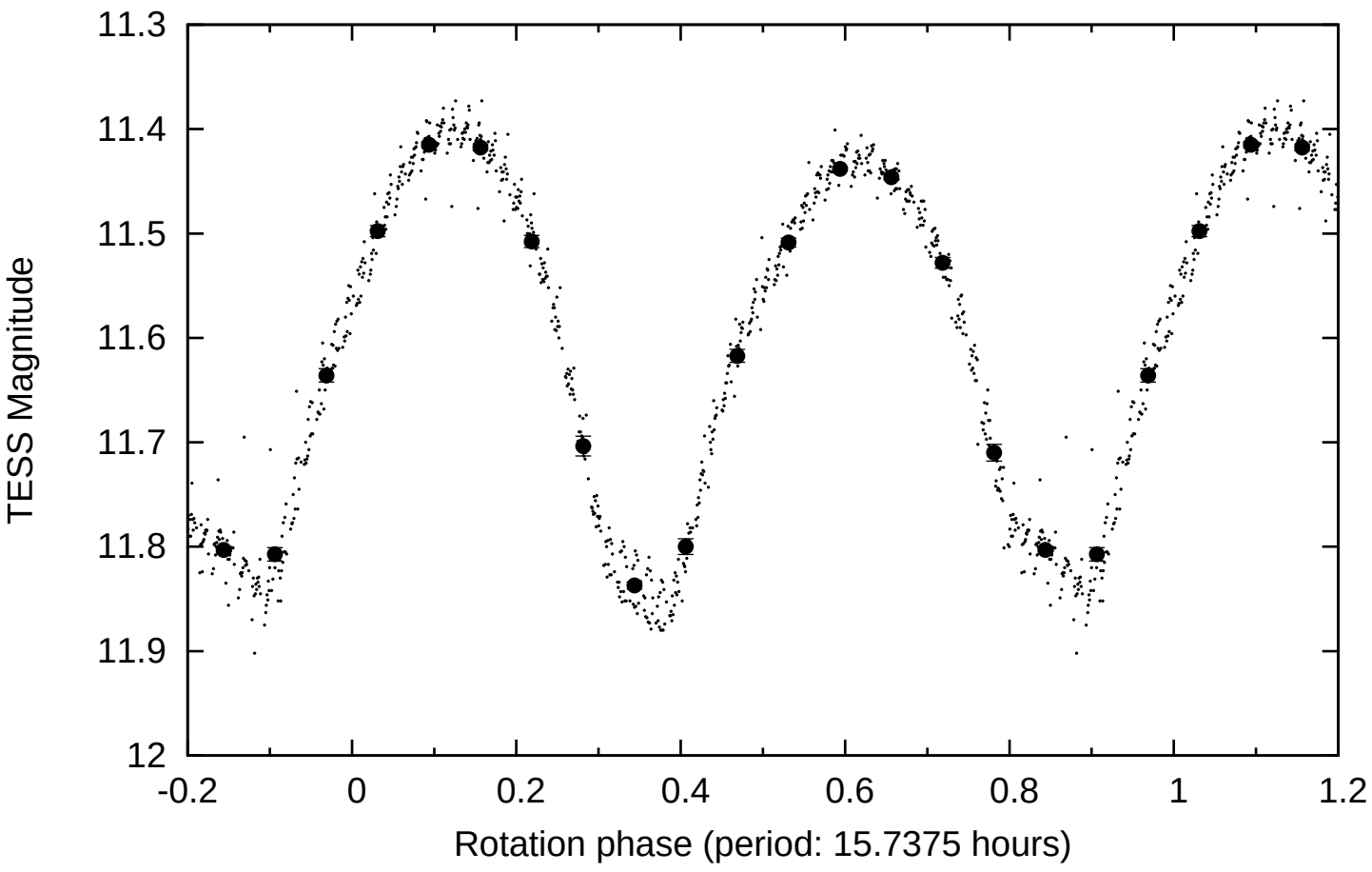

TESS Magnitude
13.3
13.4
13.5
13.6
13.7
13.8
-5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458585)

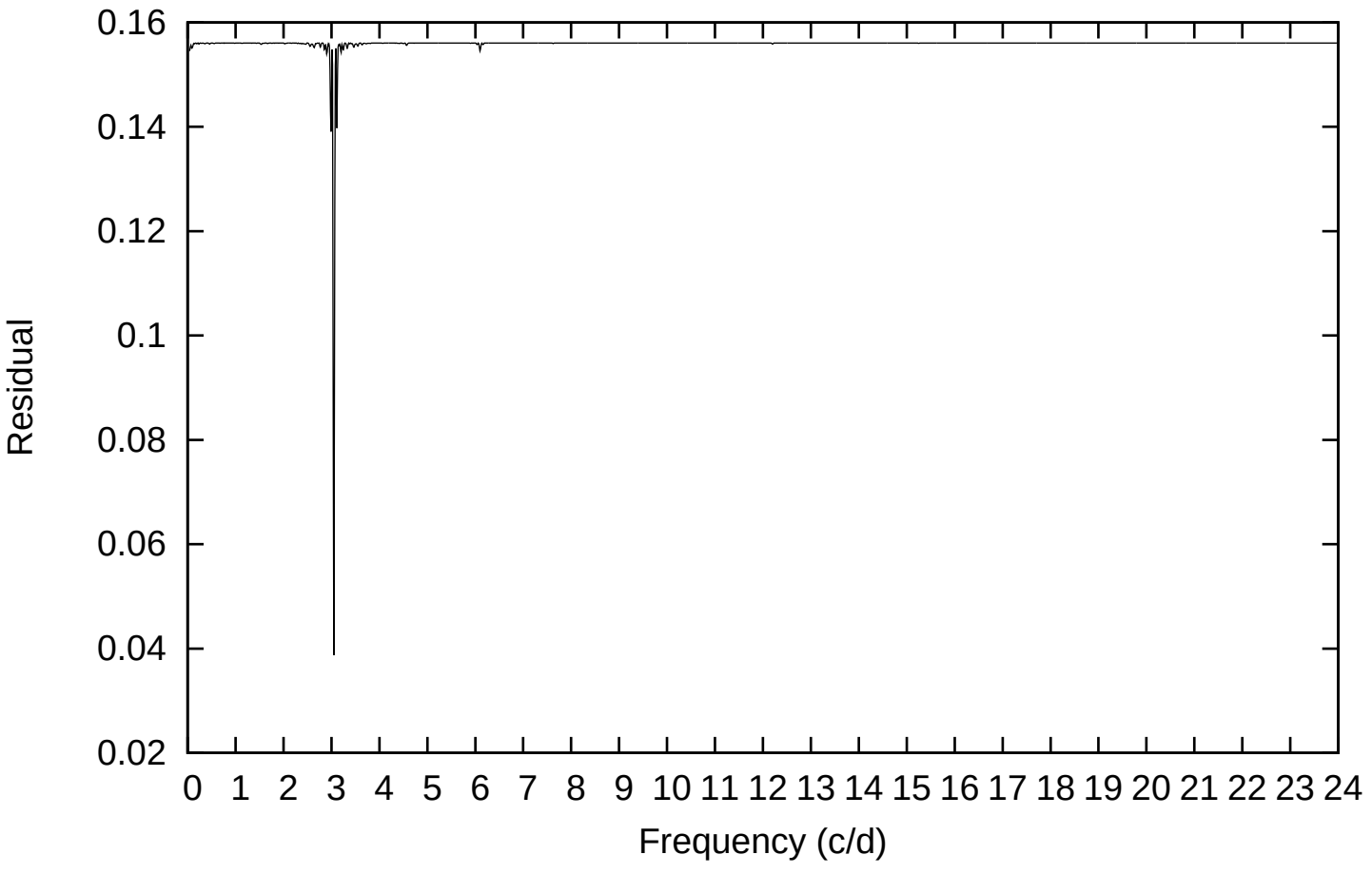

TESS Magnitude
13.35
13.4
13.45
13.5
13.55
13.6
13.65
13.7
13.75
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 208.739 hours)


Residual
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

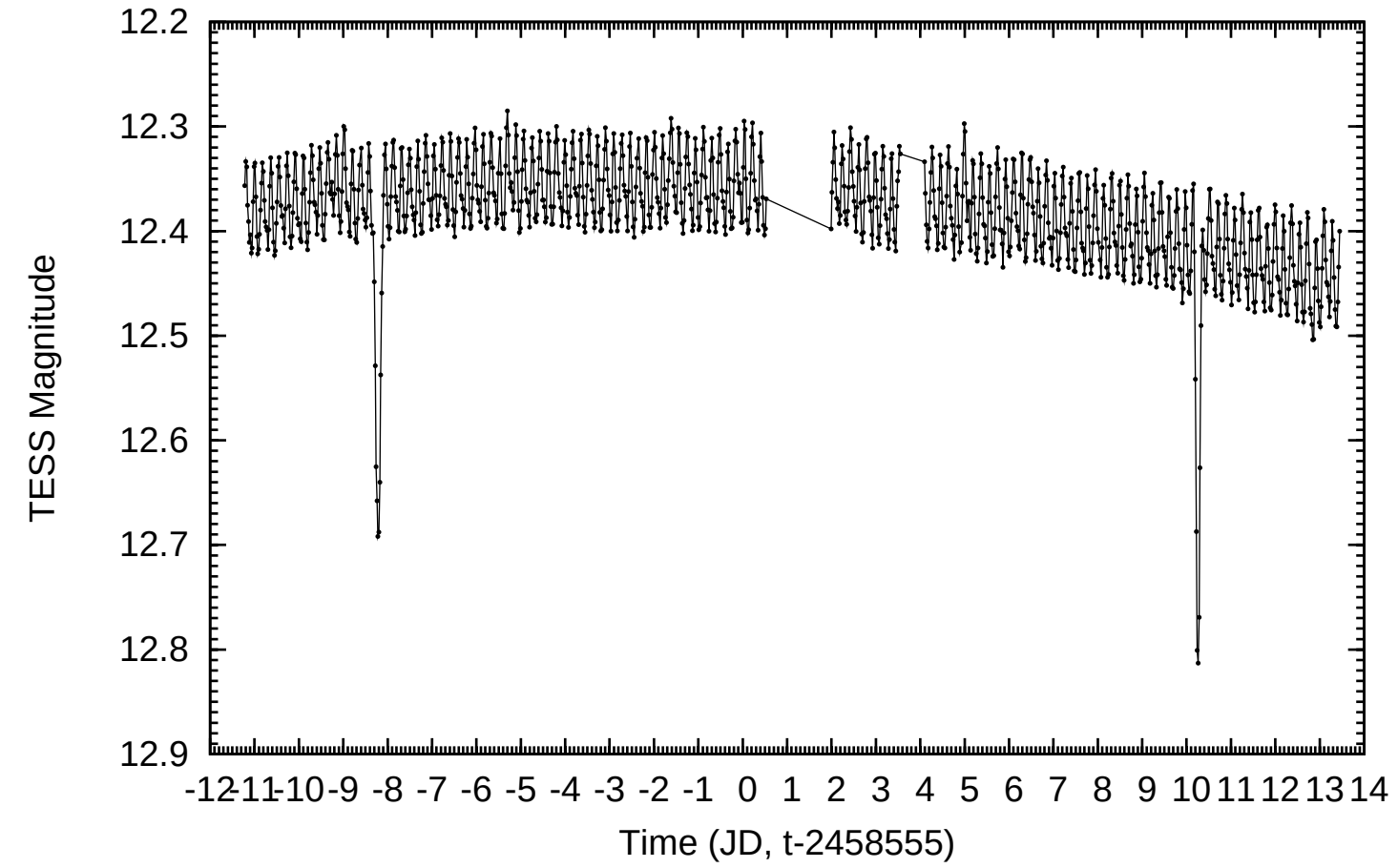
446

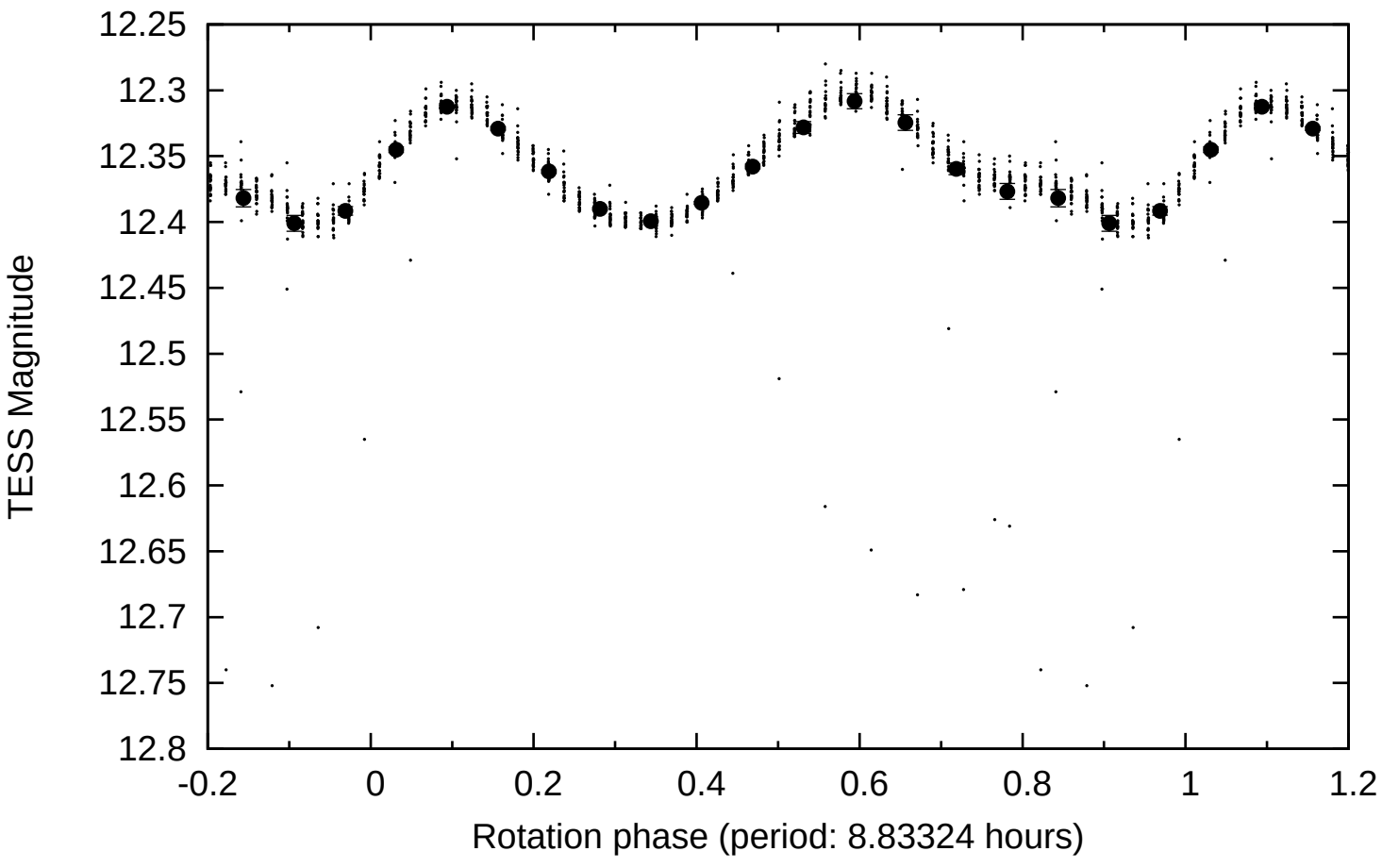

TESS Magnitude
11.3
11.4
11.5
11.6
11.7
11.8
11.9
12
12.1
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

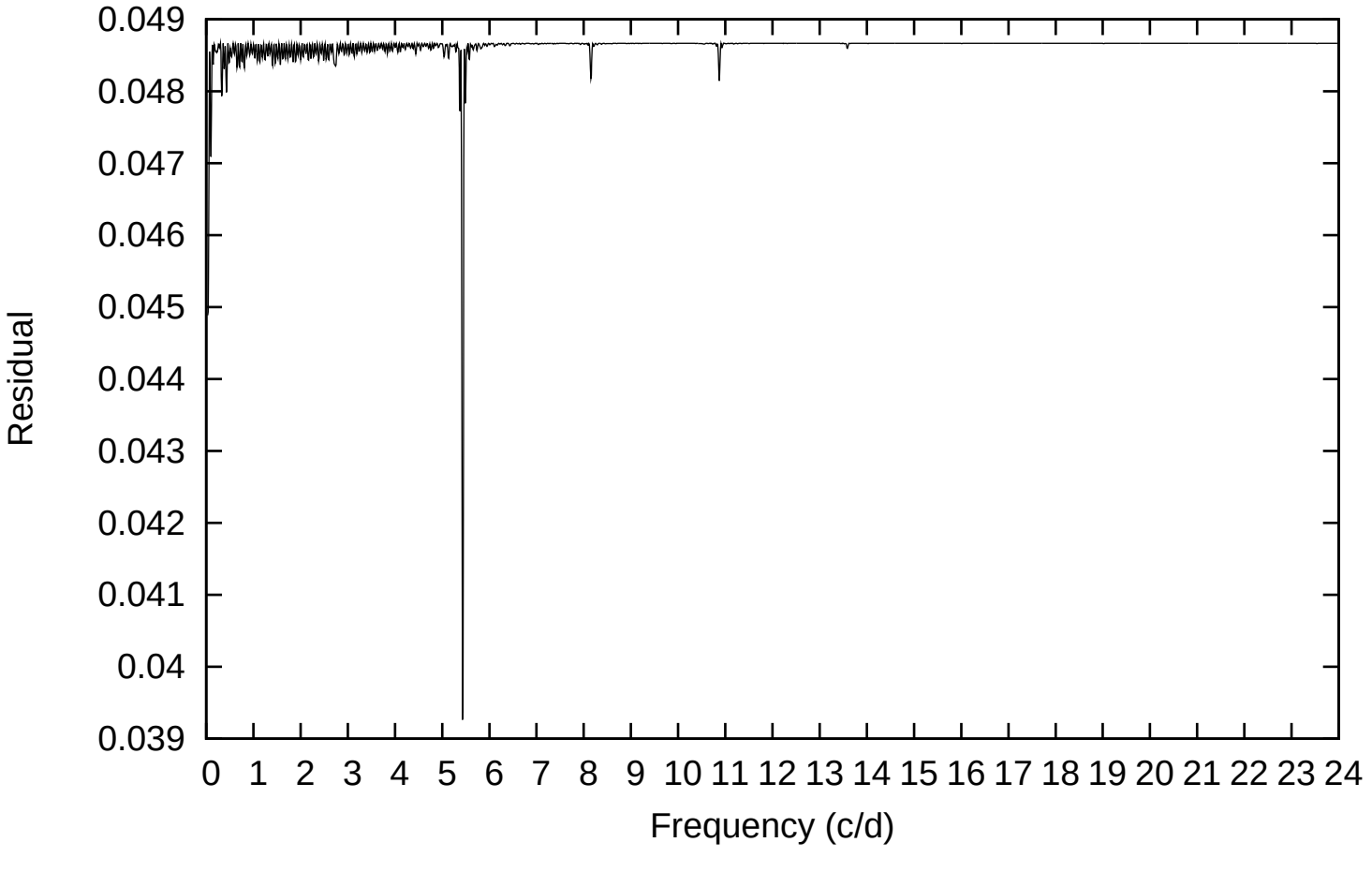

TESS Magnitude
11.3
11.4
11.5
11.6
11.7
11.8
11.9
12
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 15.7375 hours)


Residual
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 21 22 23 24
Frequency (c/d)

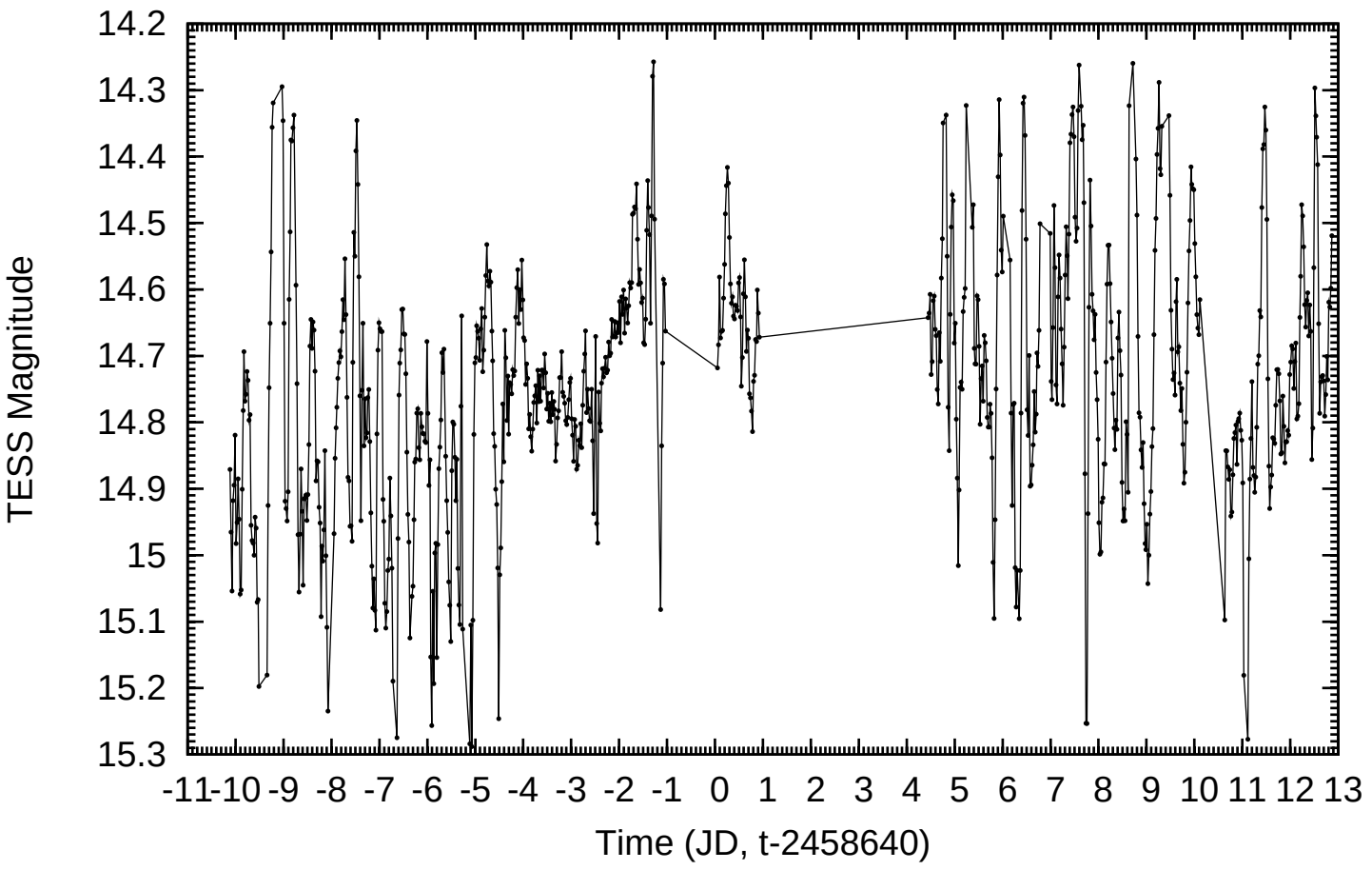
466

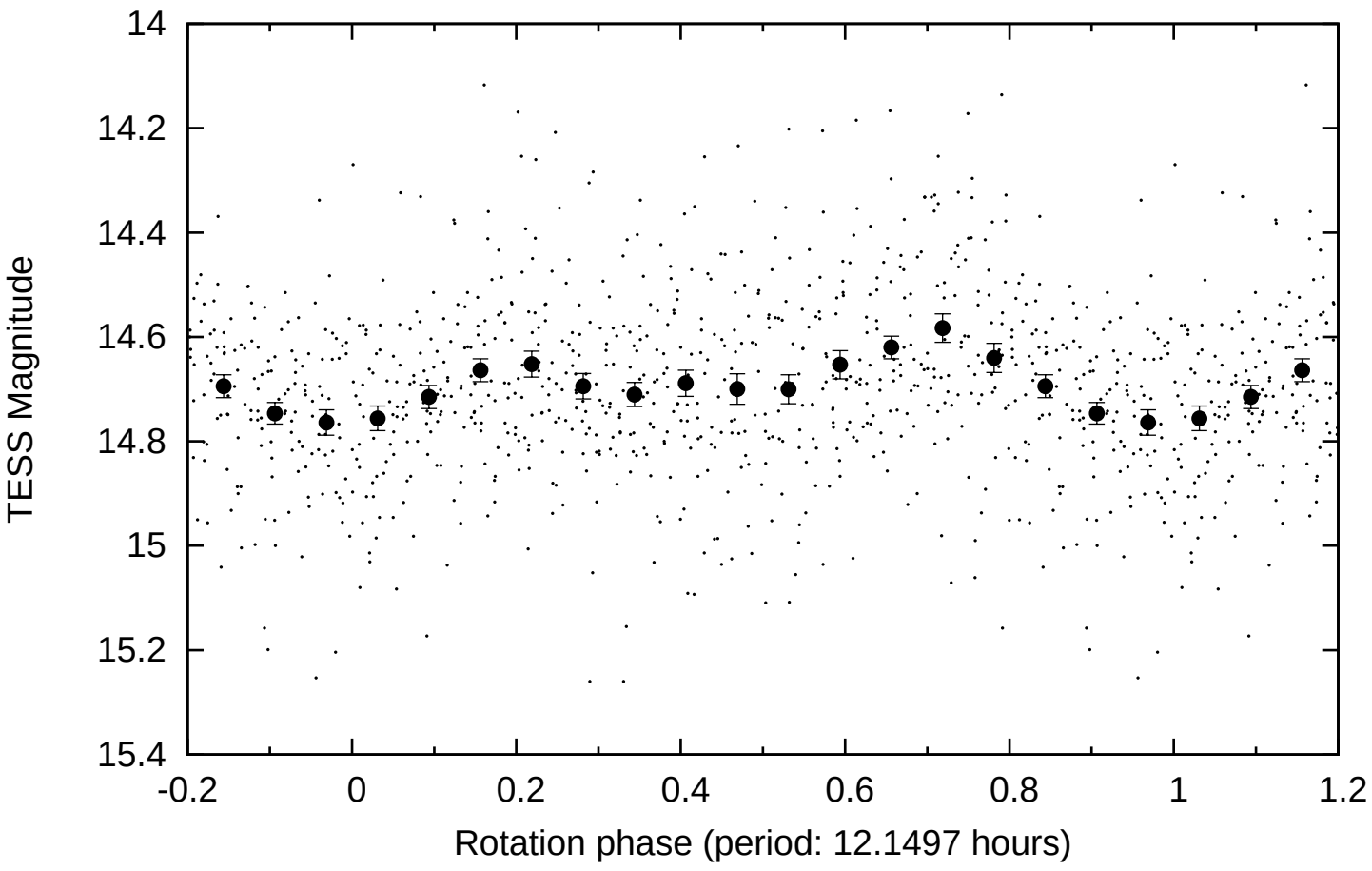

TESS Magnitude
12.2
12.3
12.4
12.5
12.6
12.7
12.8
12.9
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

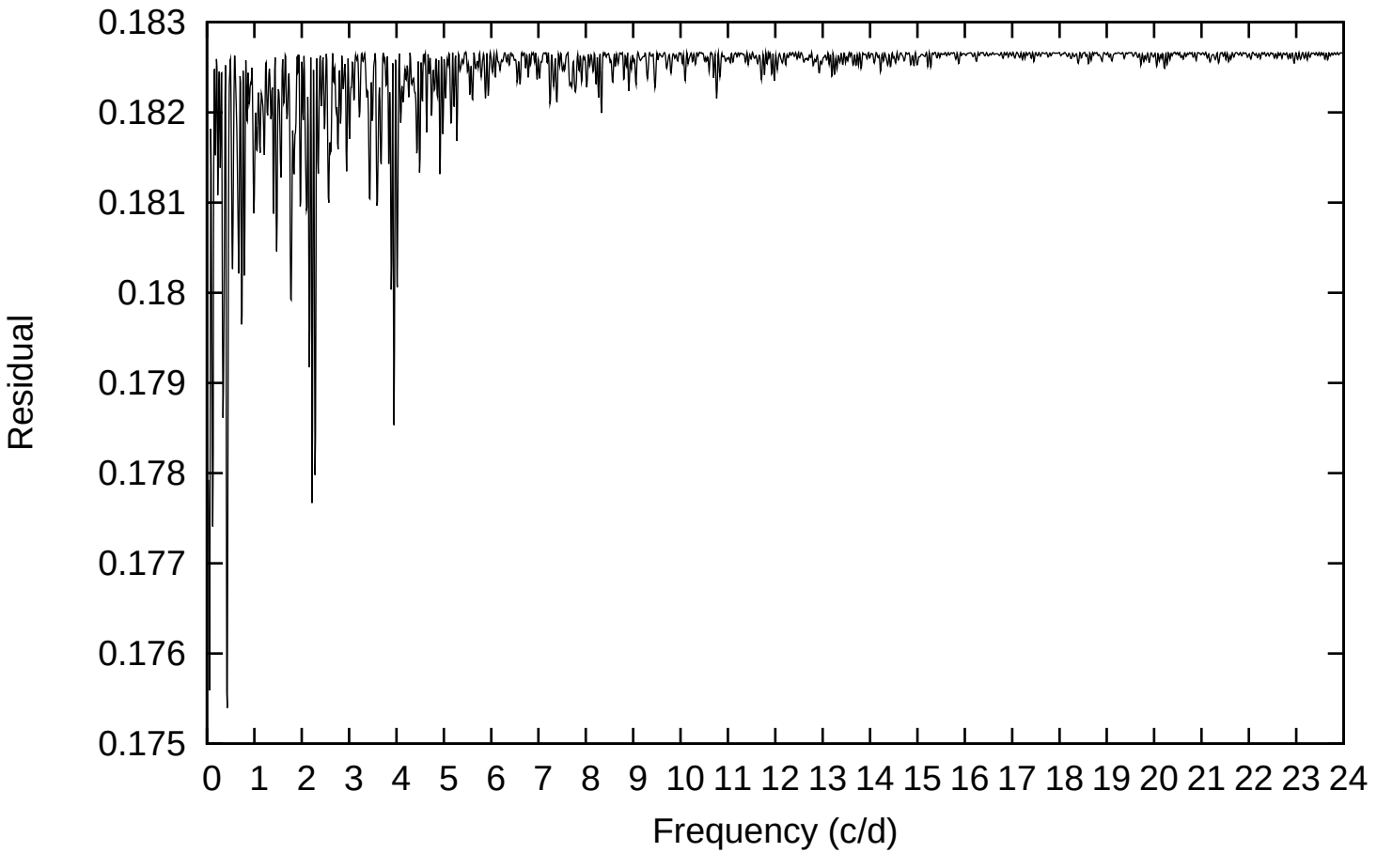

TESS Magnitude
12.25
12.3
12.35
12.4
12.45
12.5
12.55
12.6
12.65
12.7
12.75
12.8
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 8.83324 hours)


Residual
0.049
0.048
0.047
0.046
0.045
0.044
0.043
0.042
0.041
0.04
0.039
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

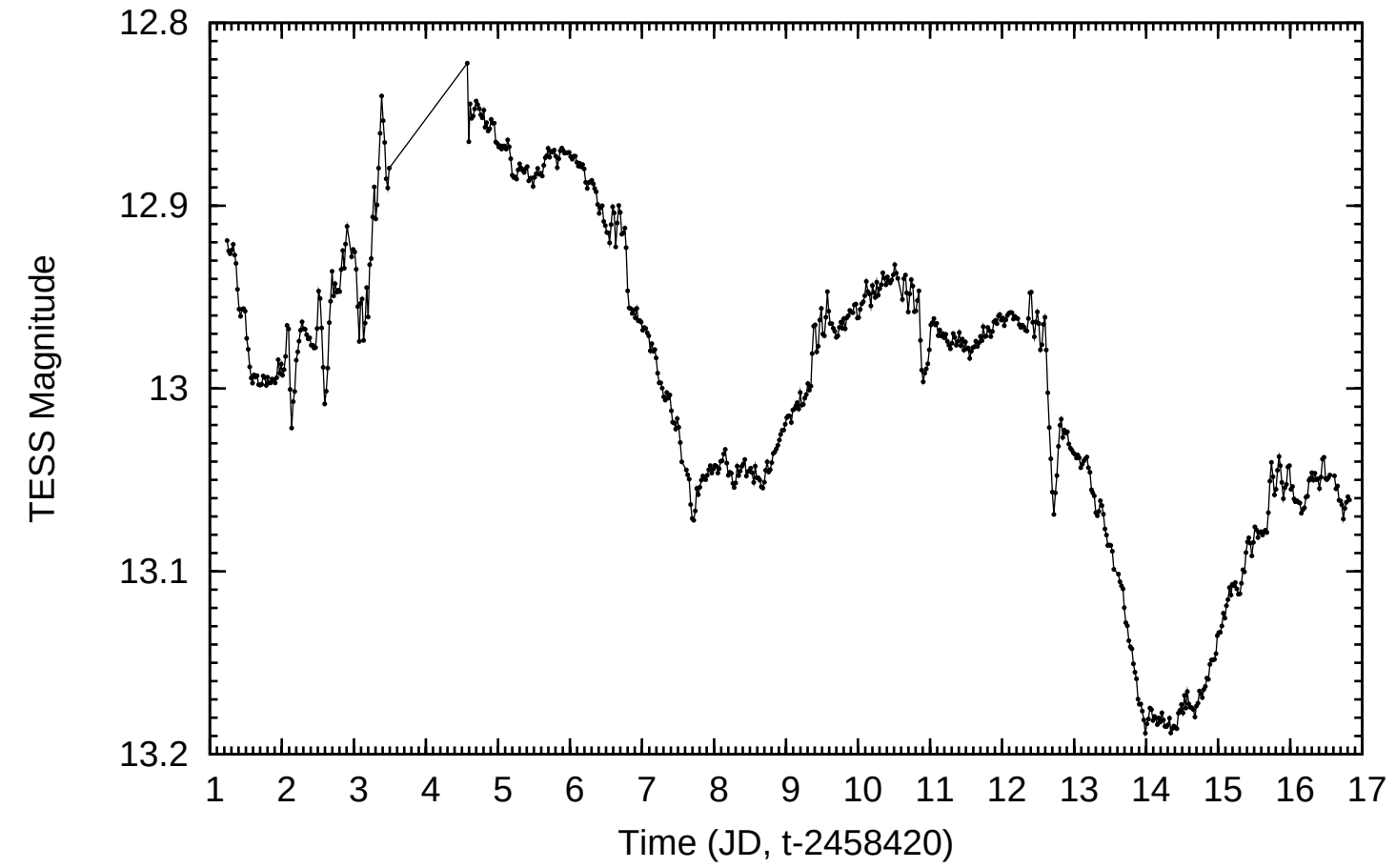
467

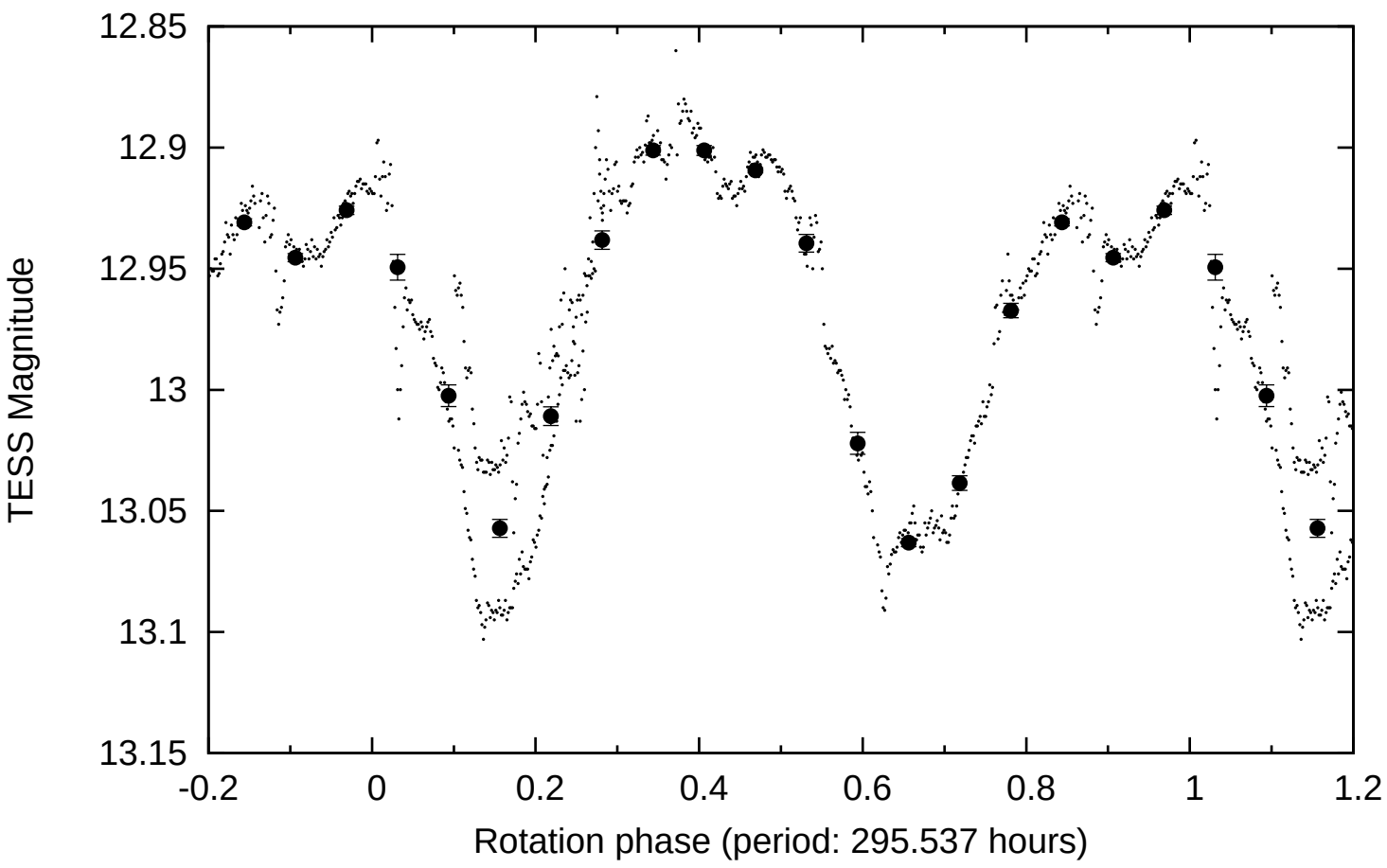

TESS Magnitude
14.2
14.3
14.4
14.5
14.6
14.7
14.8
14.9
15
15.1
15.2
15.3
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

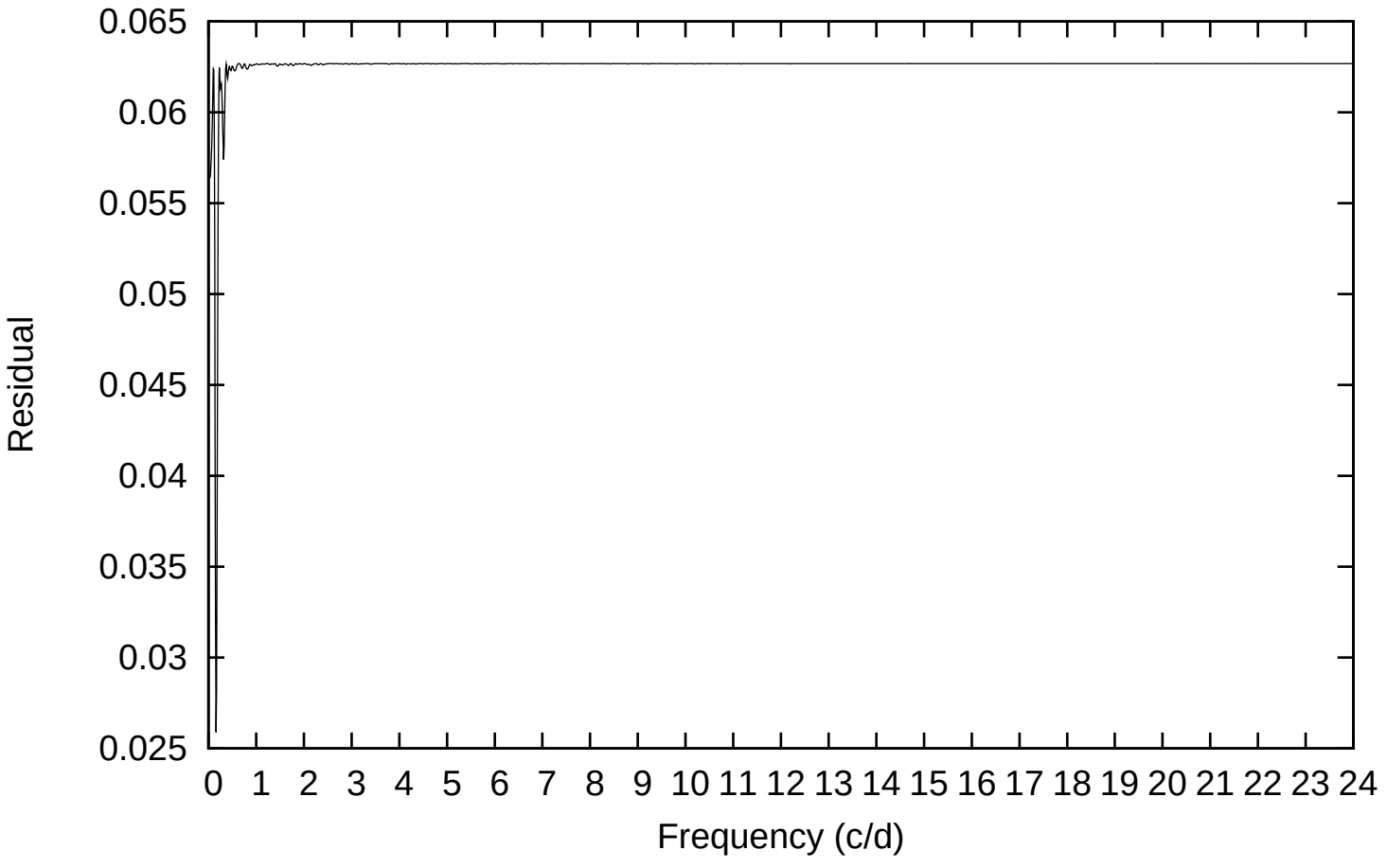

TESS Magnitude
14
14.2
14.4
14.6
14.8
15
15.2
15.4
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 12.1497 hours)


Residual
0.183
0.182
0.181
0.18
0.179
0.178
0.177
0.176
0.175
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

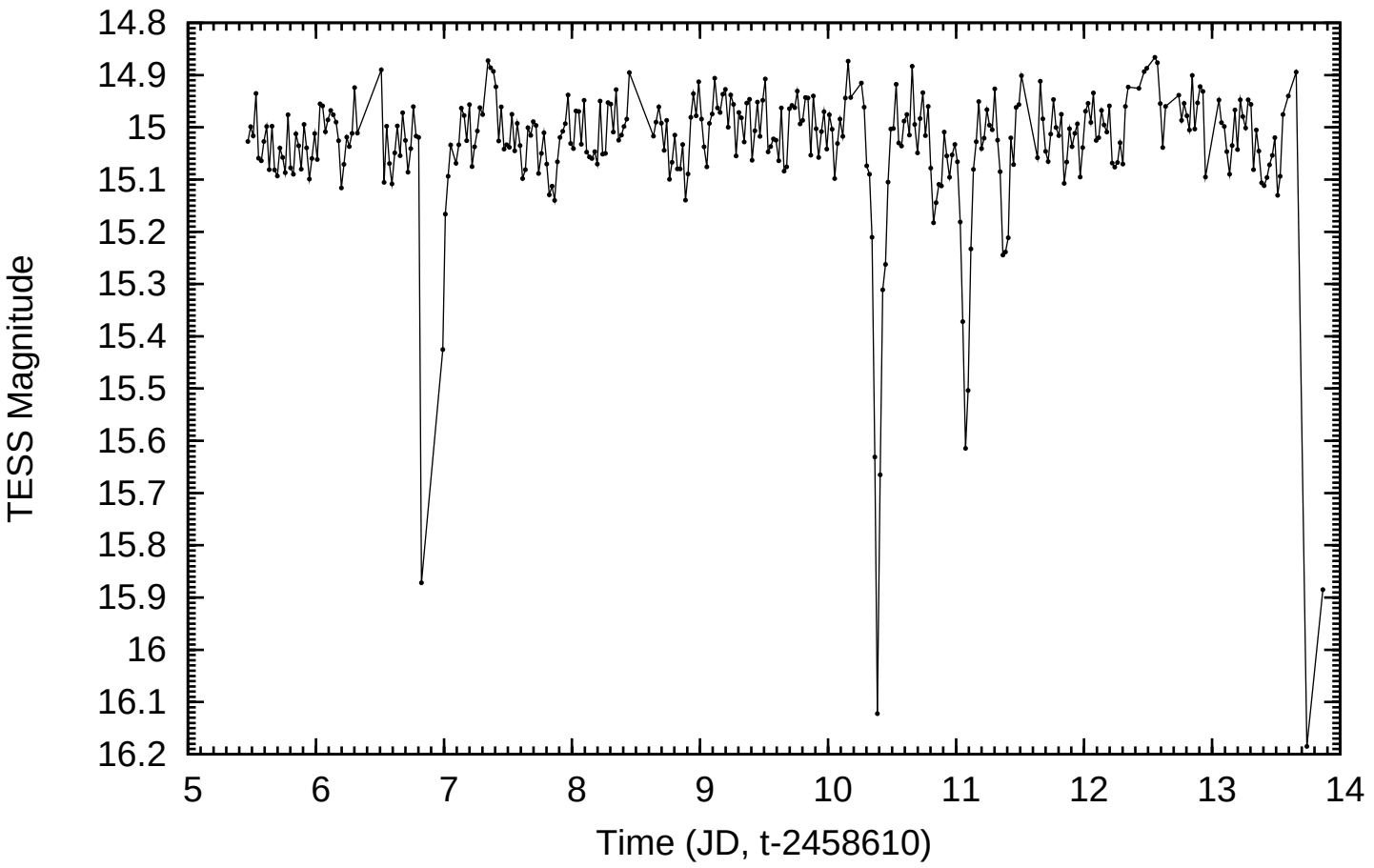
470

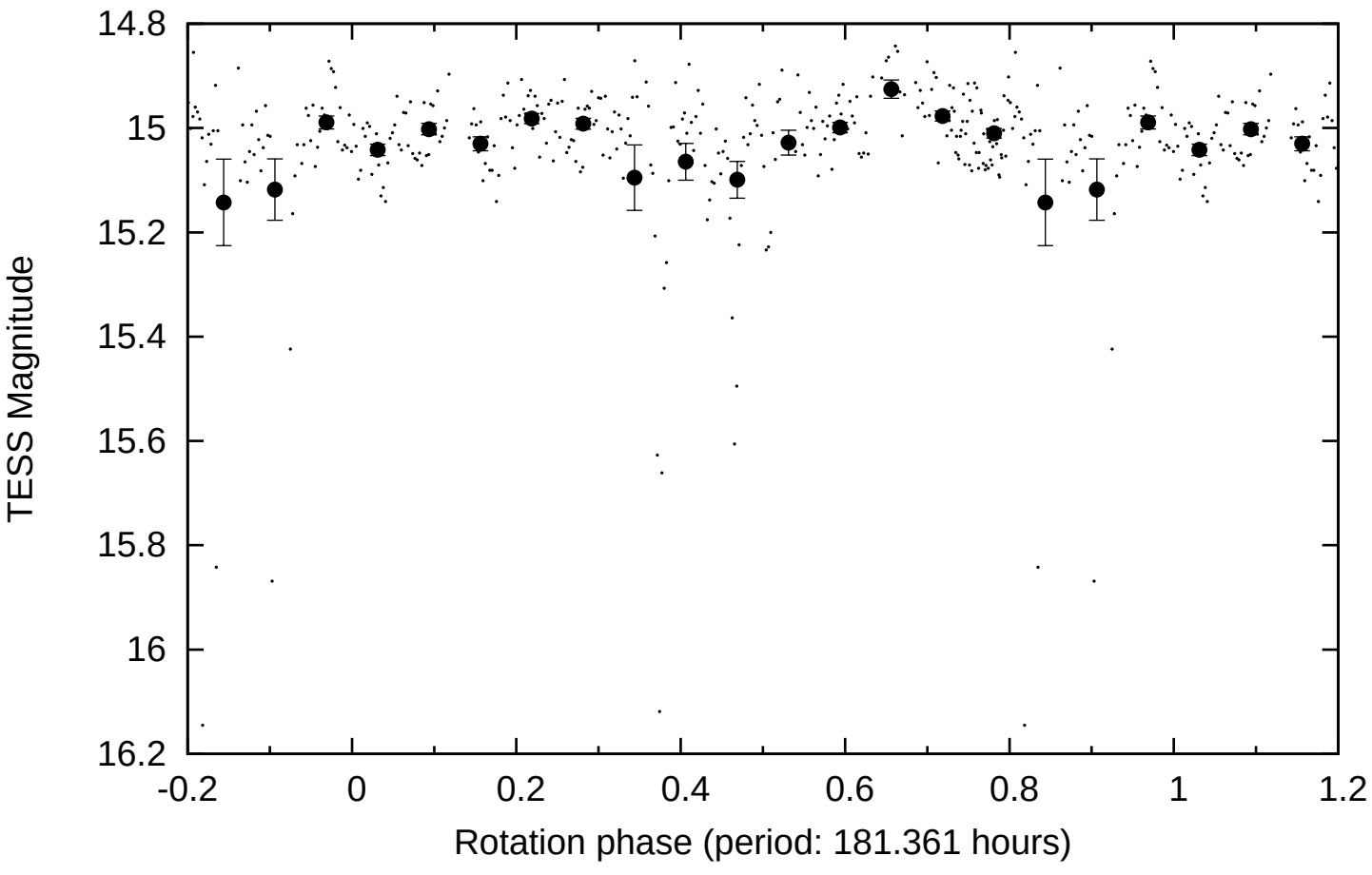

12.8
12.9
13
13.1
13.2
TESS Magnitude
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
Time (JD, t-2458420)

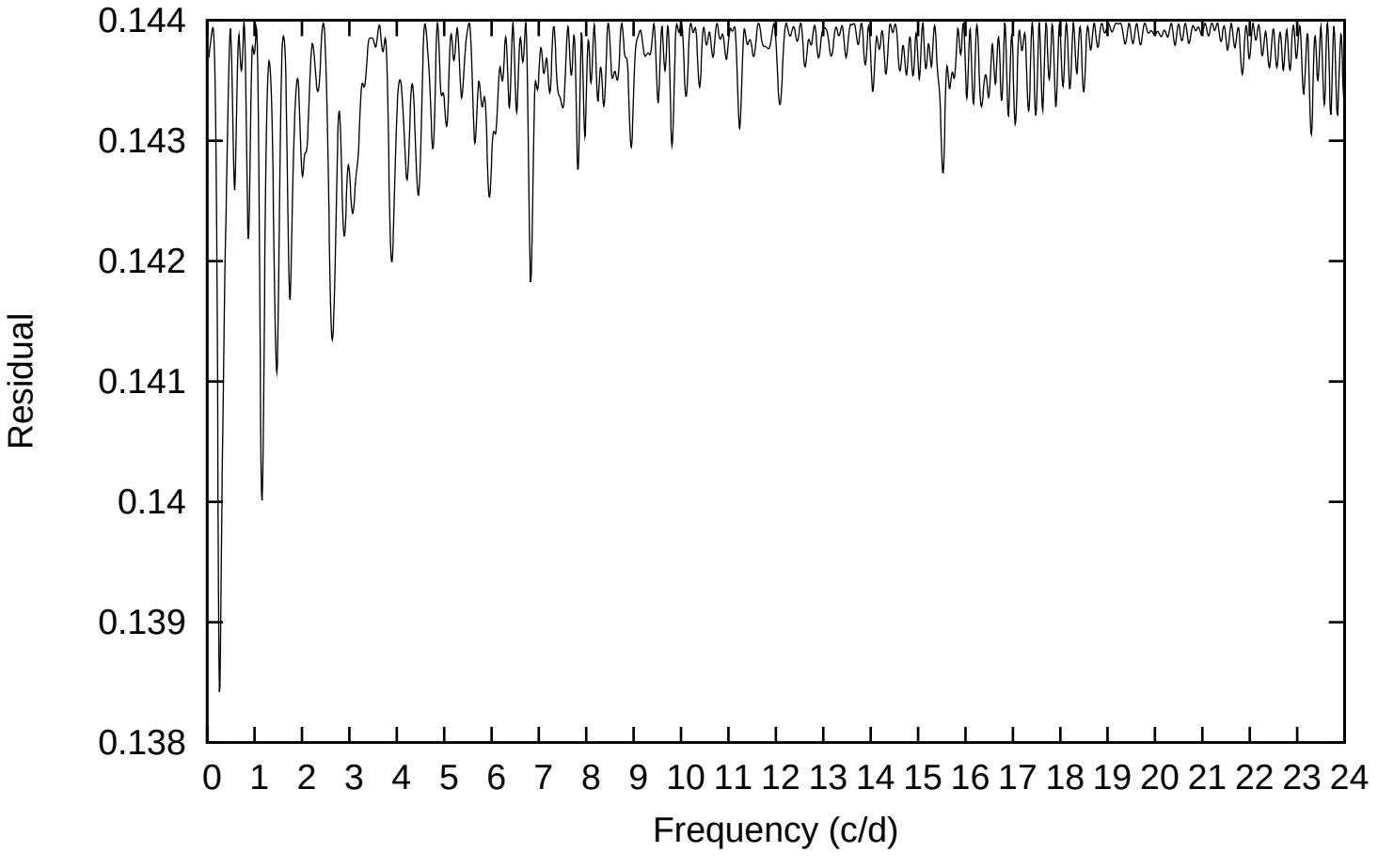

12.85
12.9
12.95
13
13.05
13.1
13.15
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 295.537 hours)


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 21 22 23 24
Frequency (c/d)

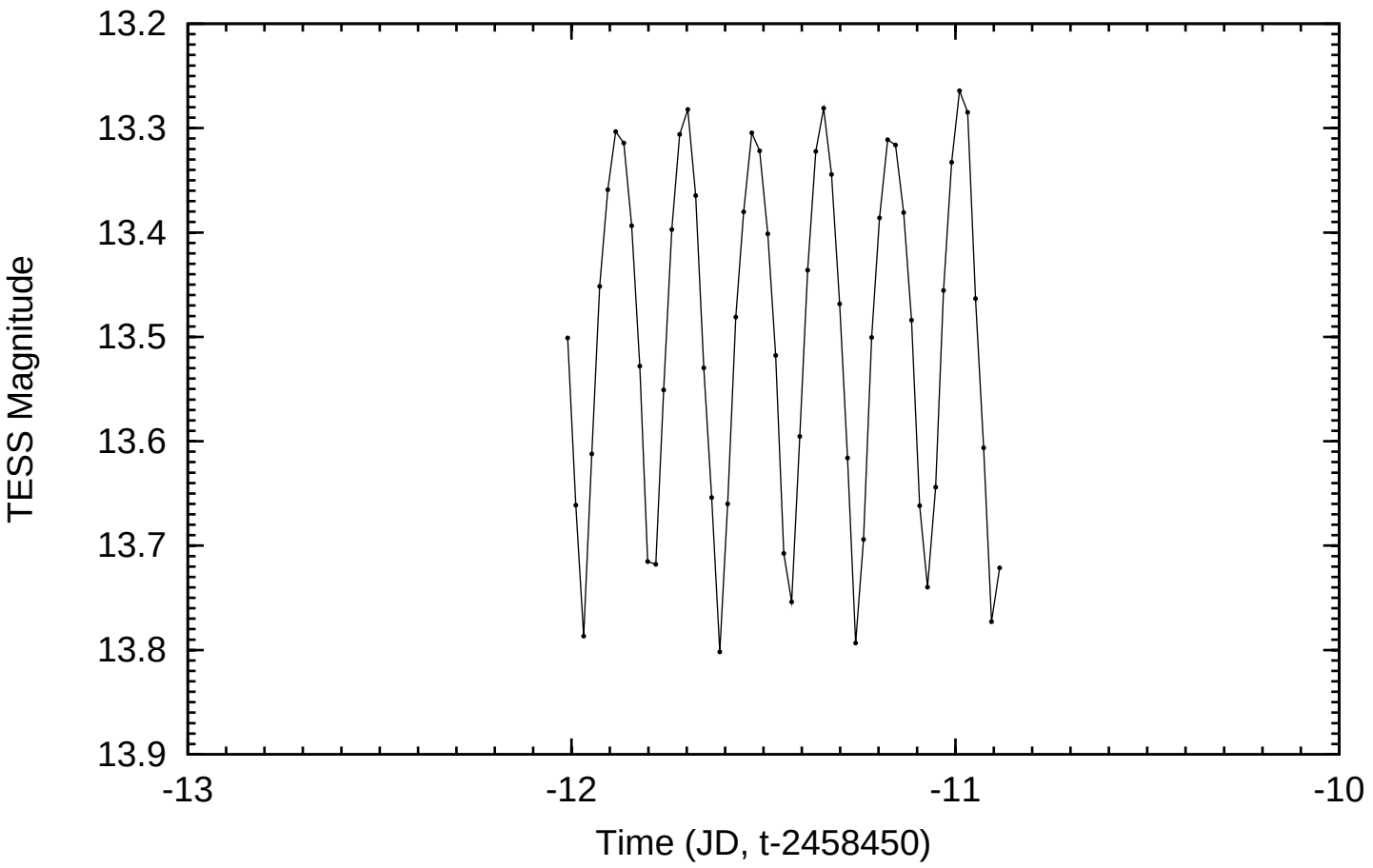
473

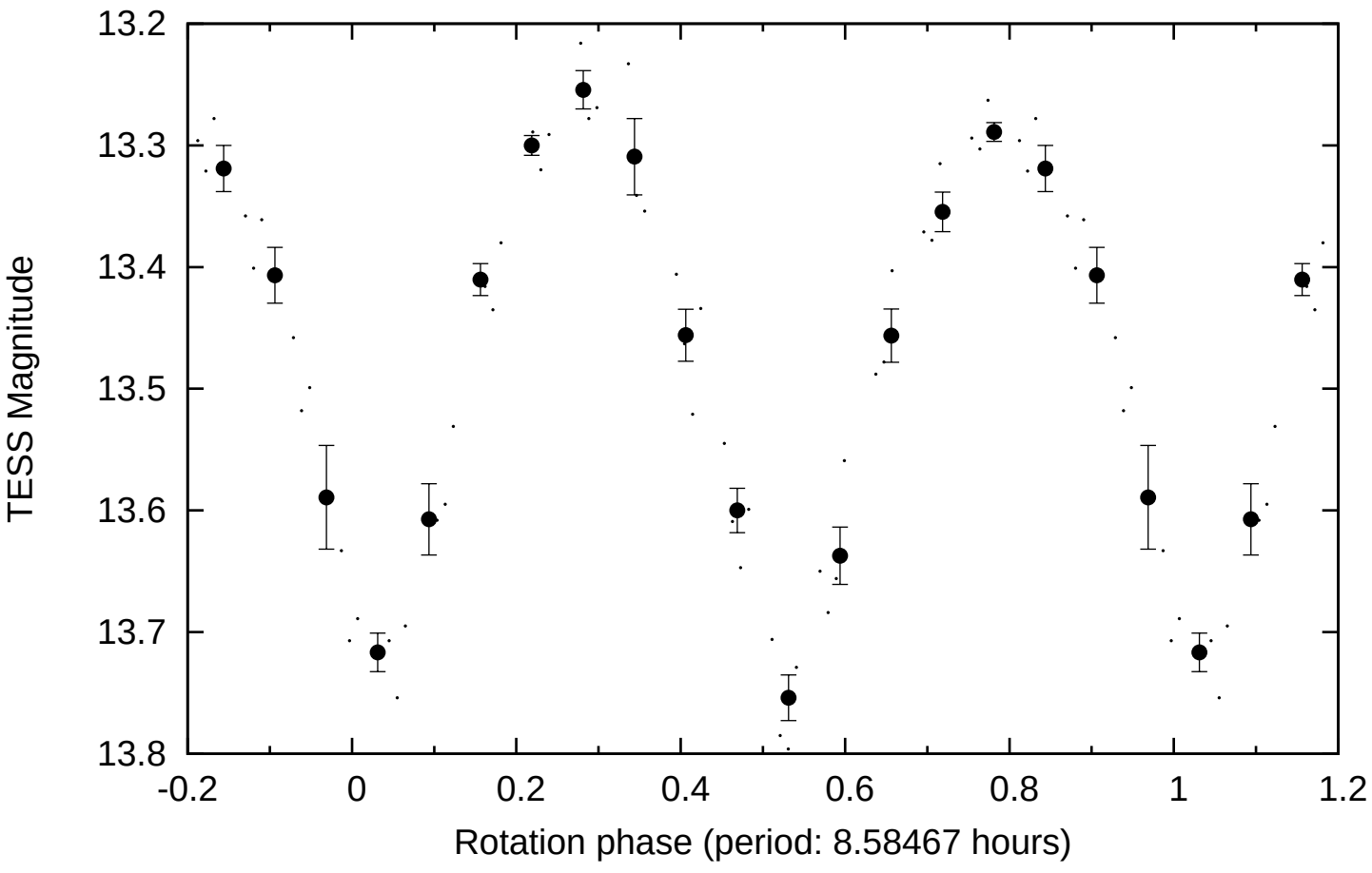

TESS Magnitude
14.8
14.9
15
15.1
15.2
15.3
15.4
15.5
15.6
15.7
15.8
15.9
16
16.1
16.2
5
6
7
8
9
10
11
12
13
14
Time (JD, t-2458610)

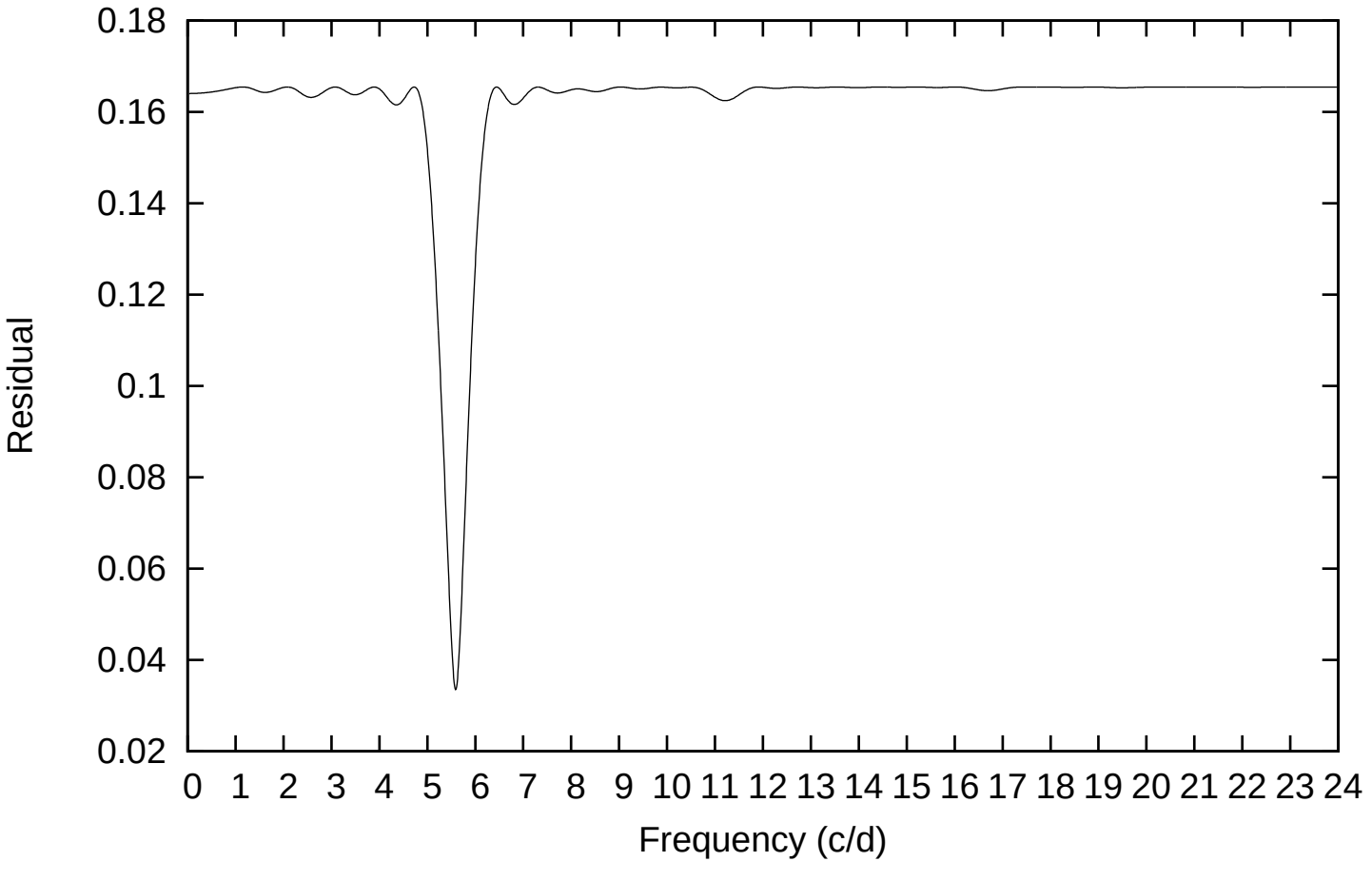

TESS Magnitude
14.8
15
15.2
15.4
15.6
15.8
16
16.2
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 181.361 hours)


Residual
0.144
0.143
0.142
0.141
0.14
0.139
0.138
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

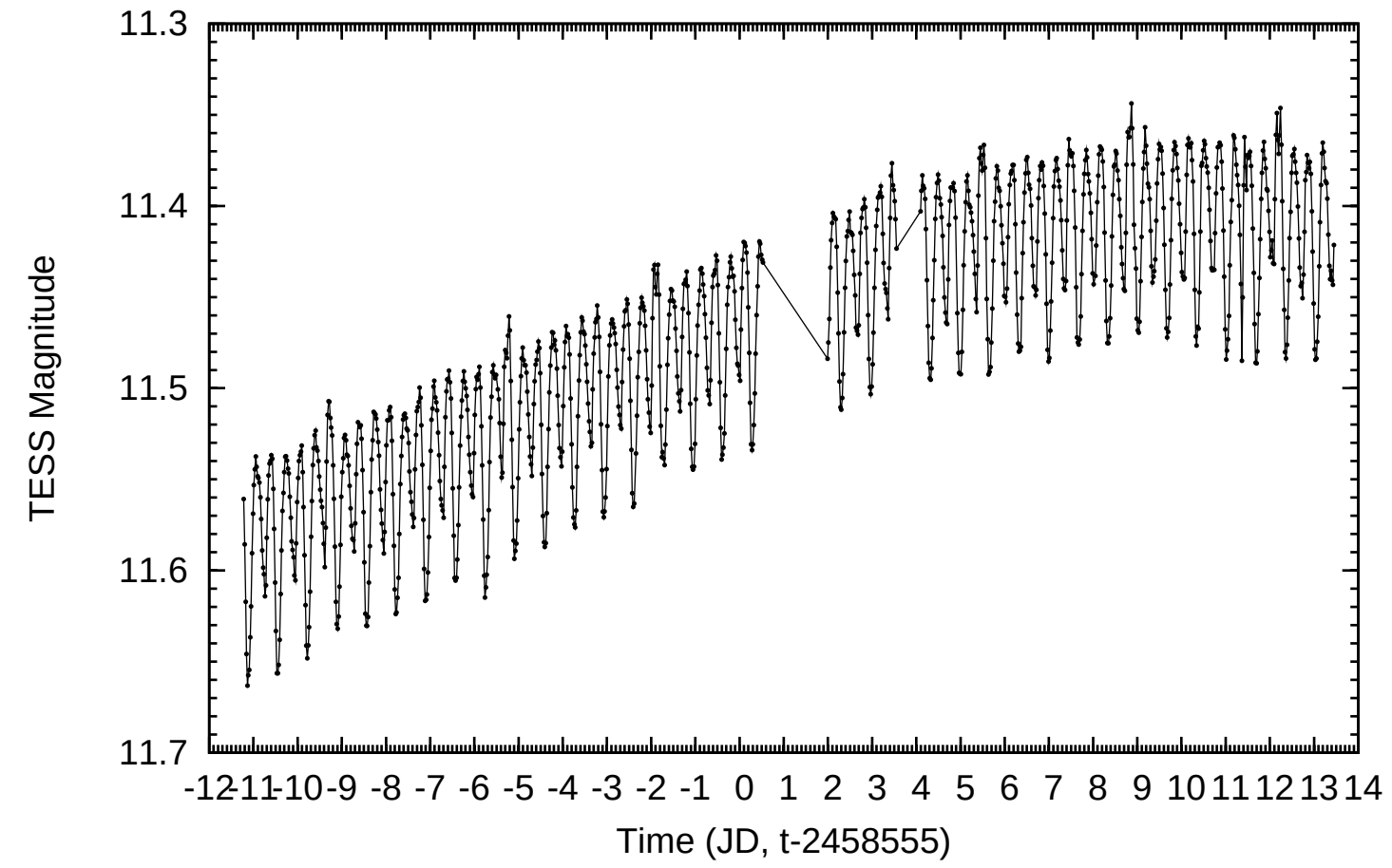
474

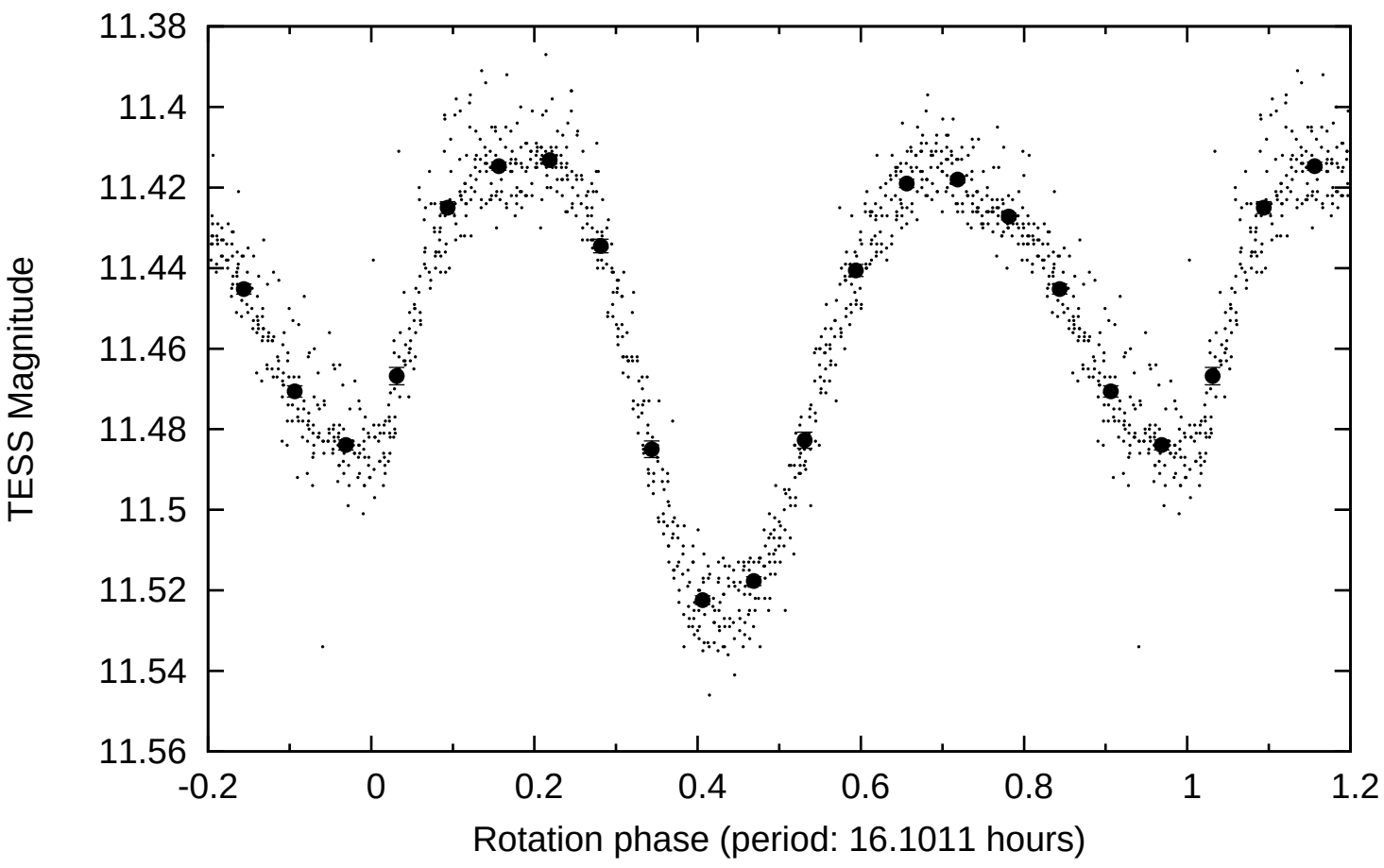

13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
TESS Magnitude
-13
-12
-11
-10
Time (JD, t-2458450)

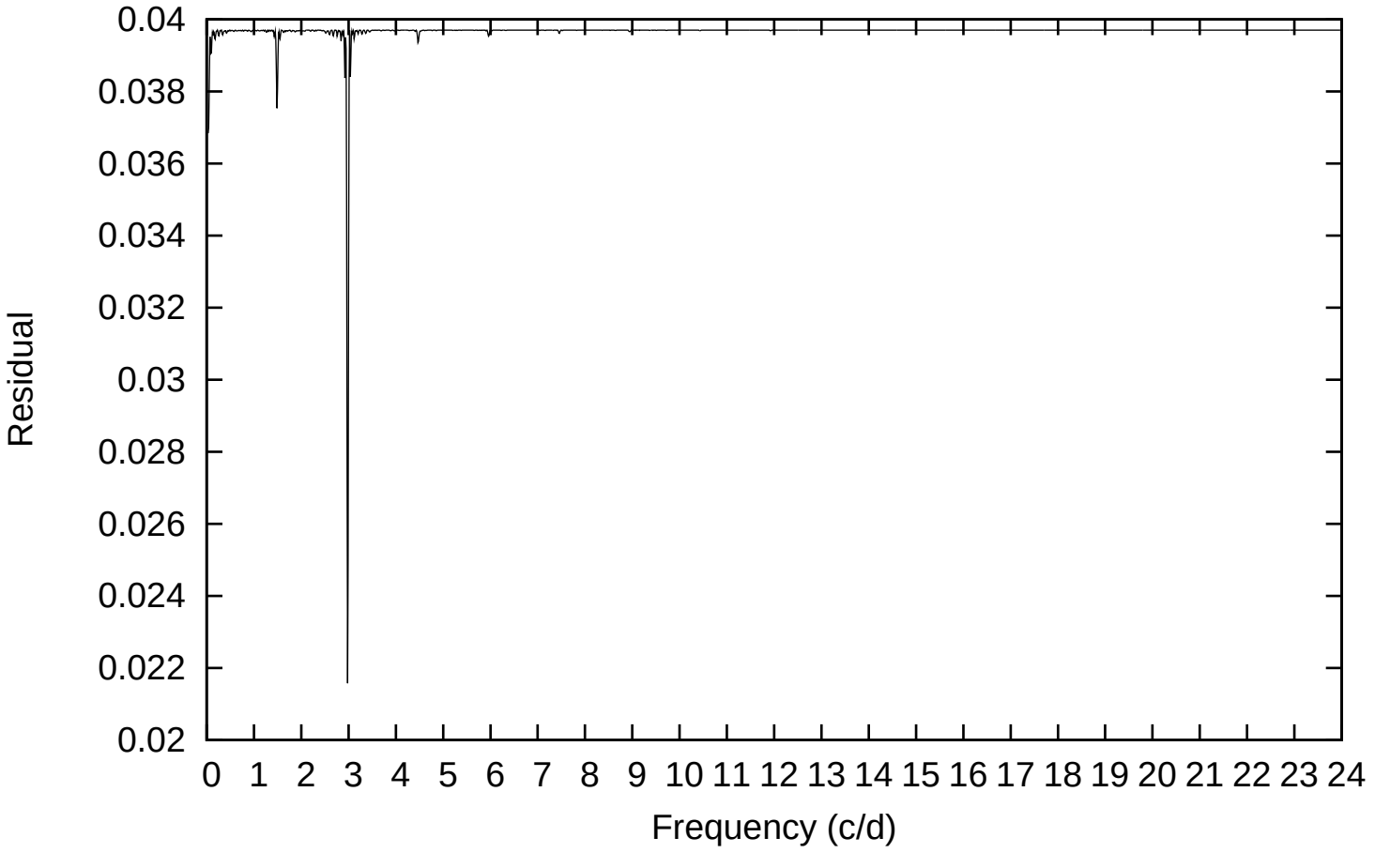

13.2
13.3
13.4
13.5
13.6
13.7
13.8
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 8.58467 hours)


0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

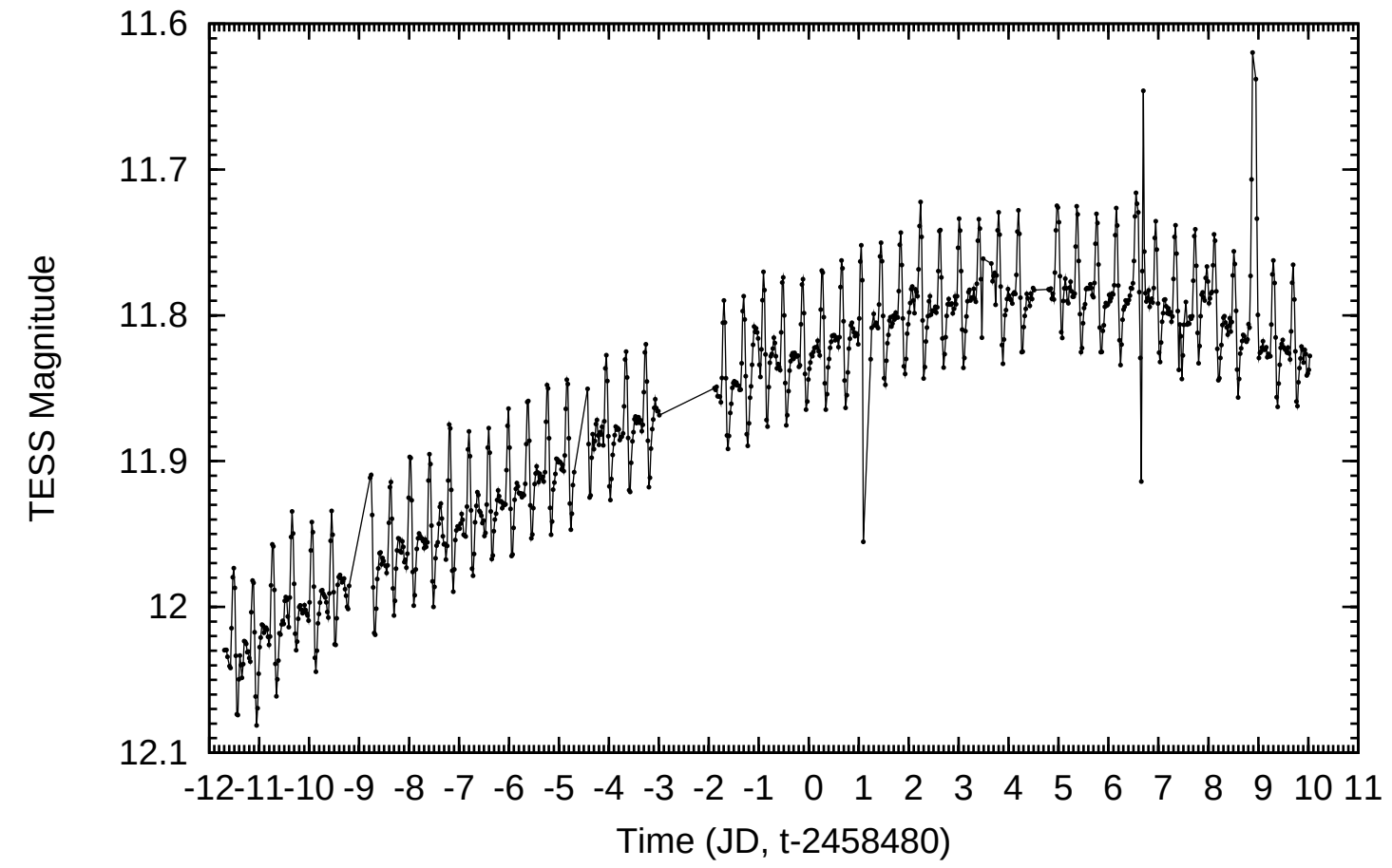
478

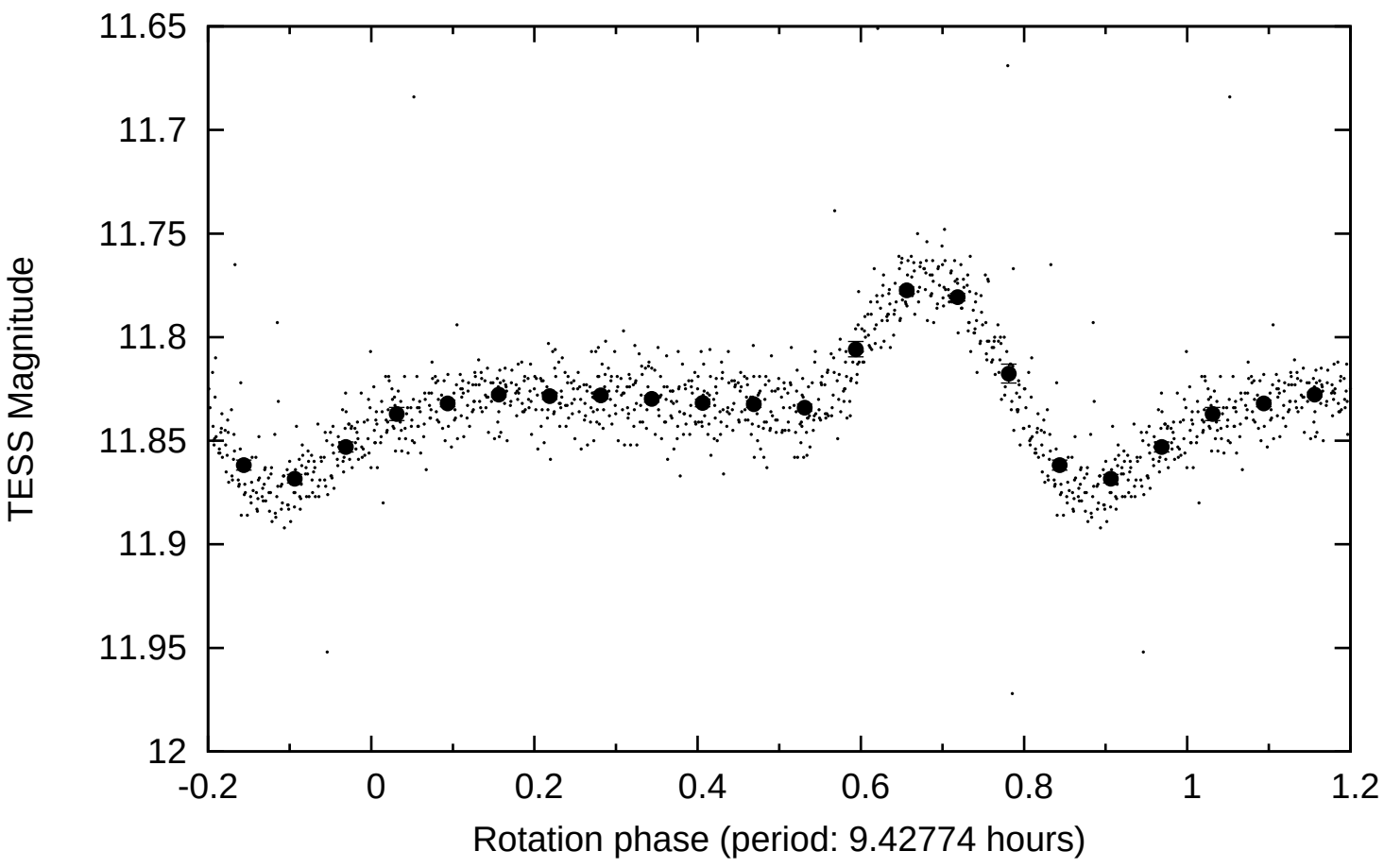

TESS Magnitude
11.3
11.4
11.5
11.6
11.7
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

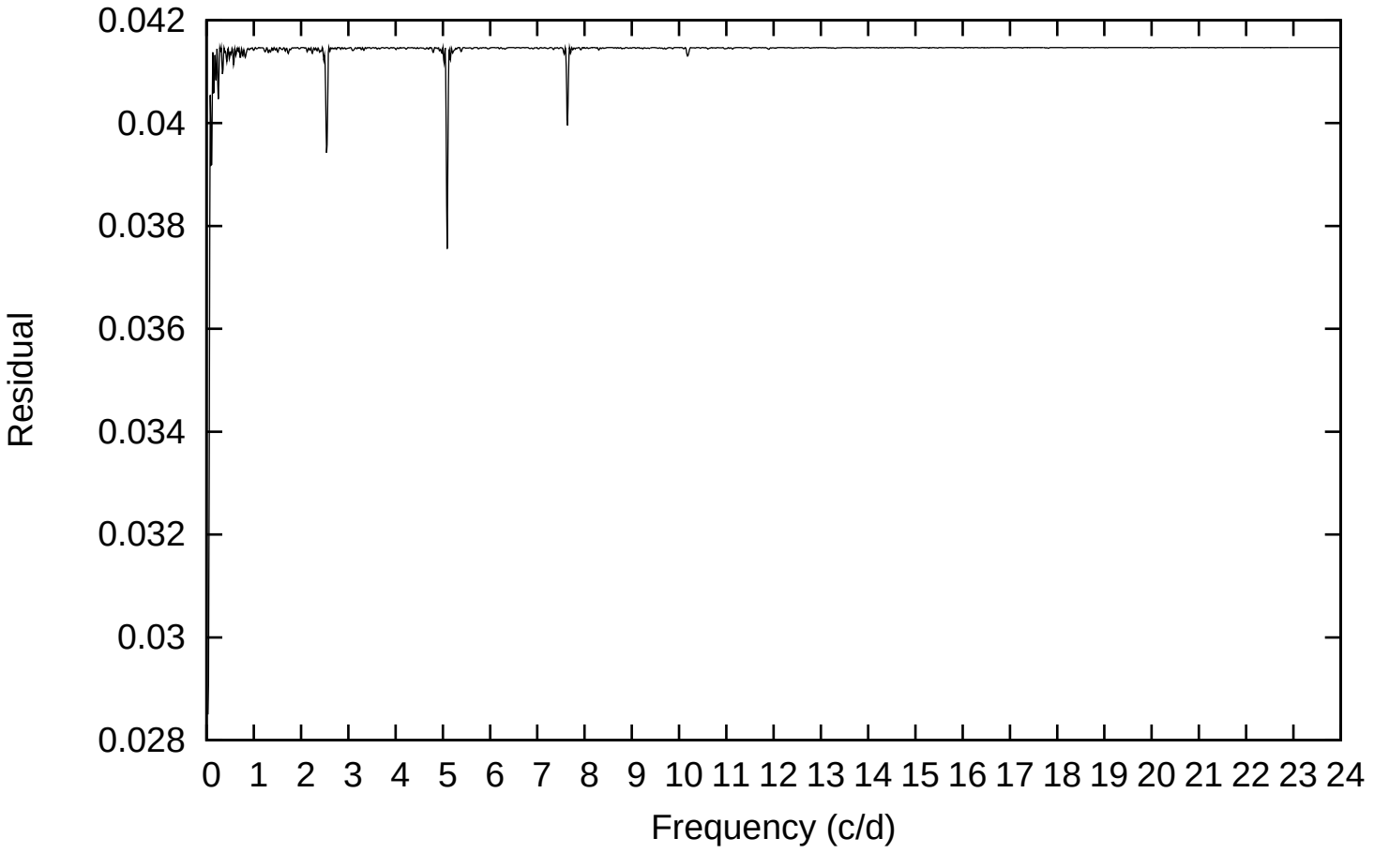

TESS Magnitude
11.38
11.4
11.42
11.44
11.46
11.48
11.5
11.52
11.54
11.56
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 16.1011 hours)


Residual
0.04
0.038
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 21 22 23 24
Frequency (c/d)

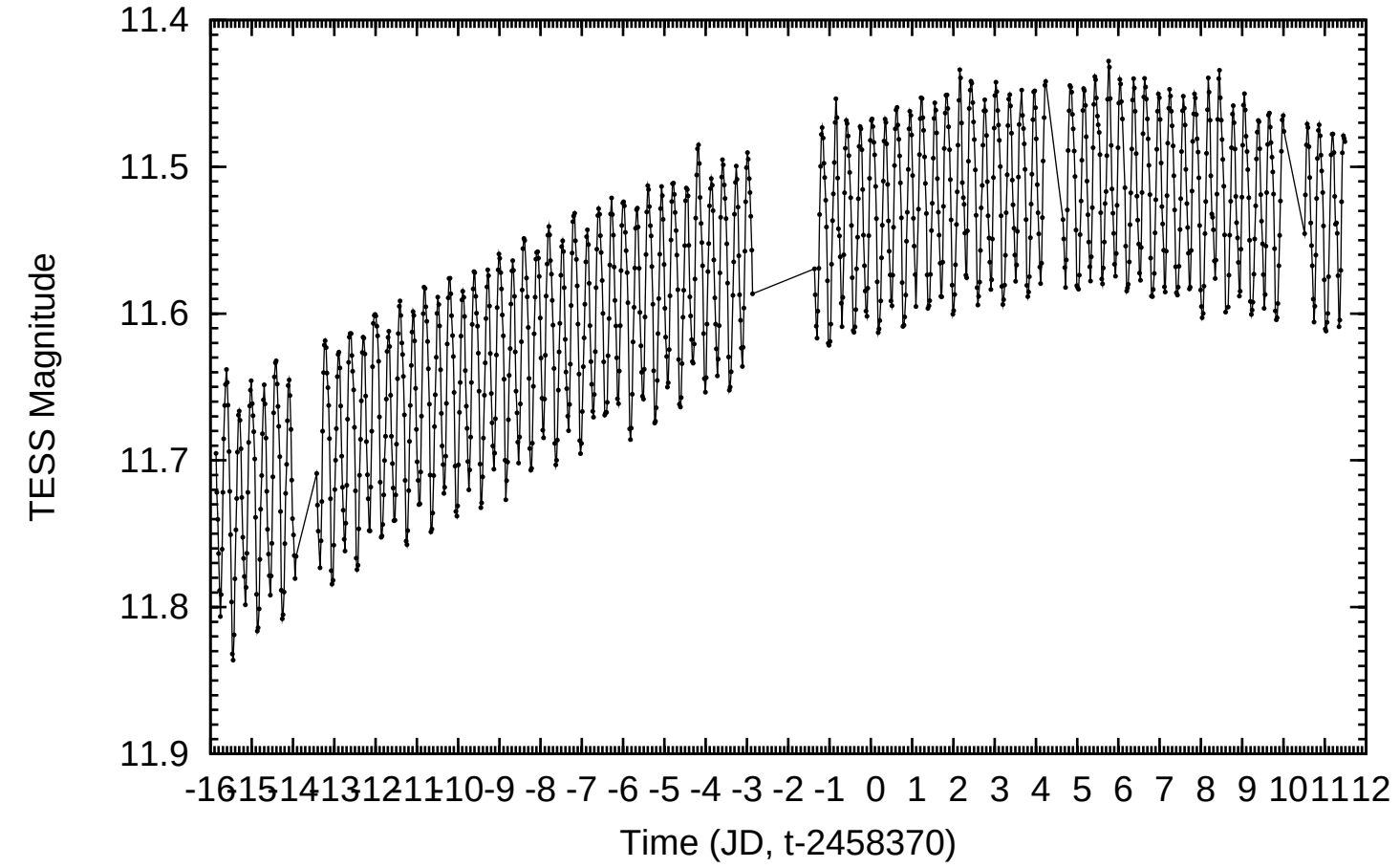
479

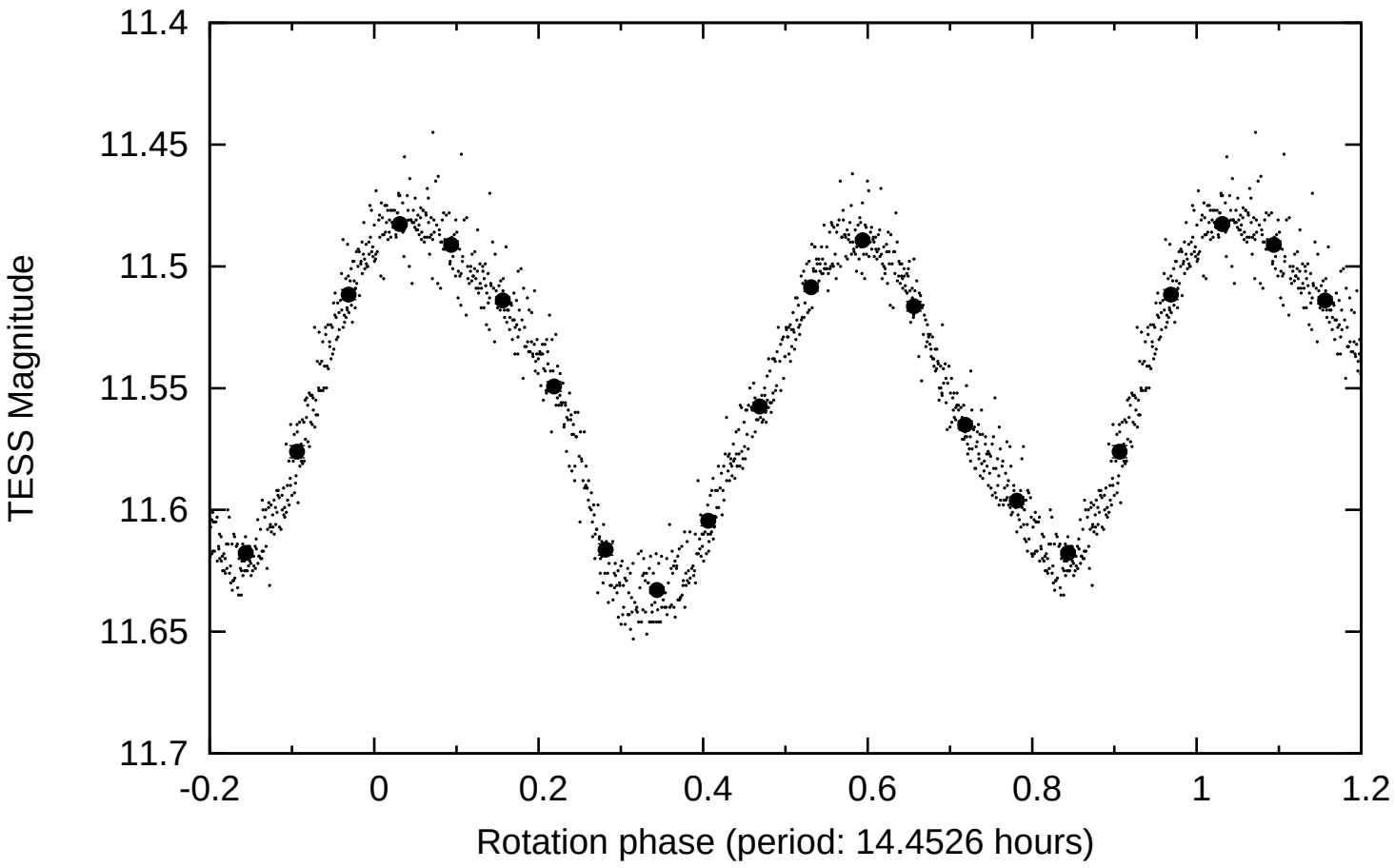

TESS Magnitude
11.6
11.7
11.8
11.9
12
12.1
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458480)

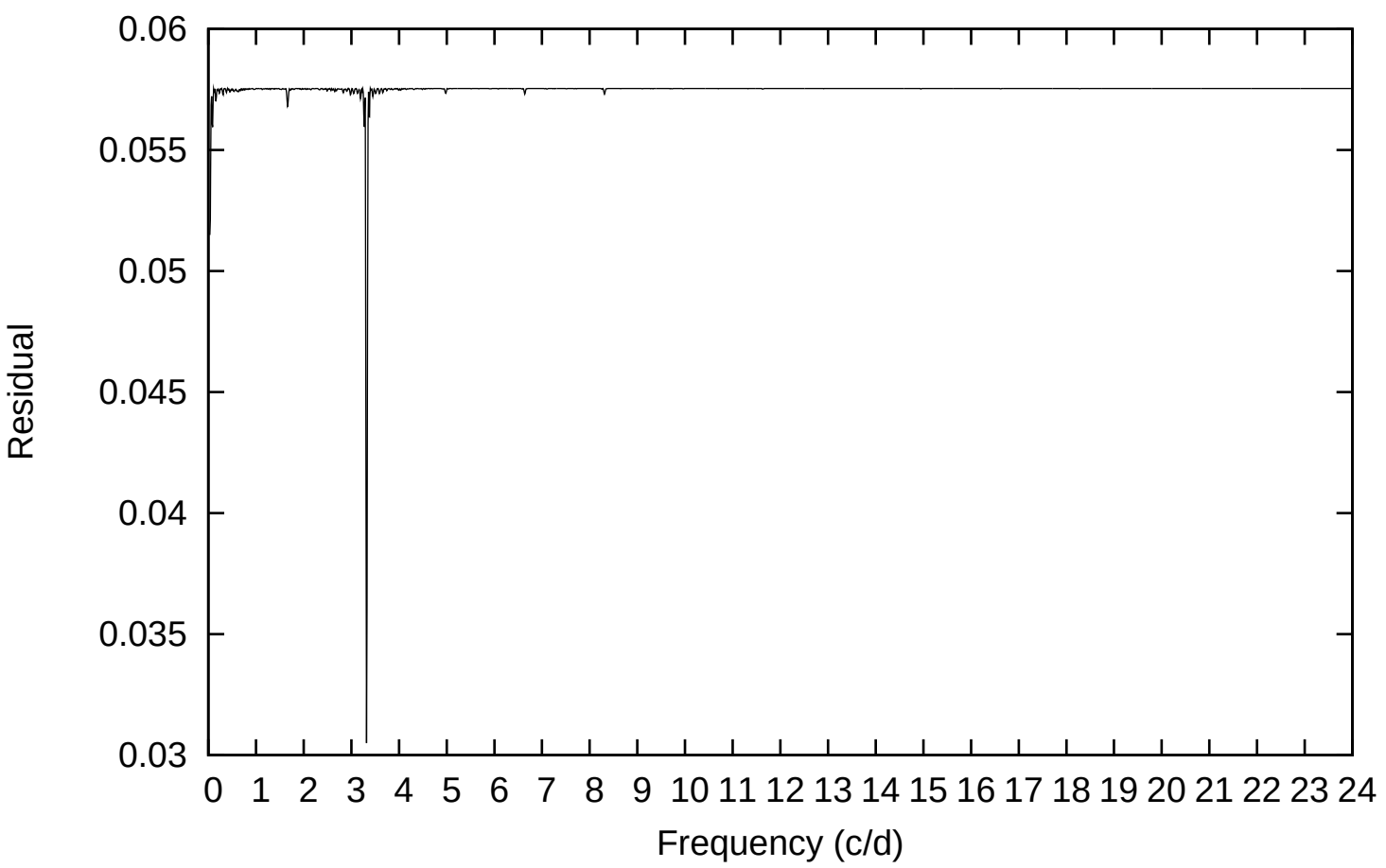

TESS Magnitude
11.65
11.7
11.75
11.8
11.85
11.9
11.95
12
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 9.42774 hours)


Residual
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 21 22 23 24
Frequency (c/d)

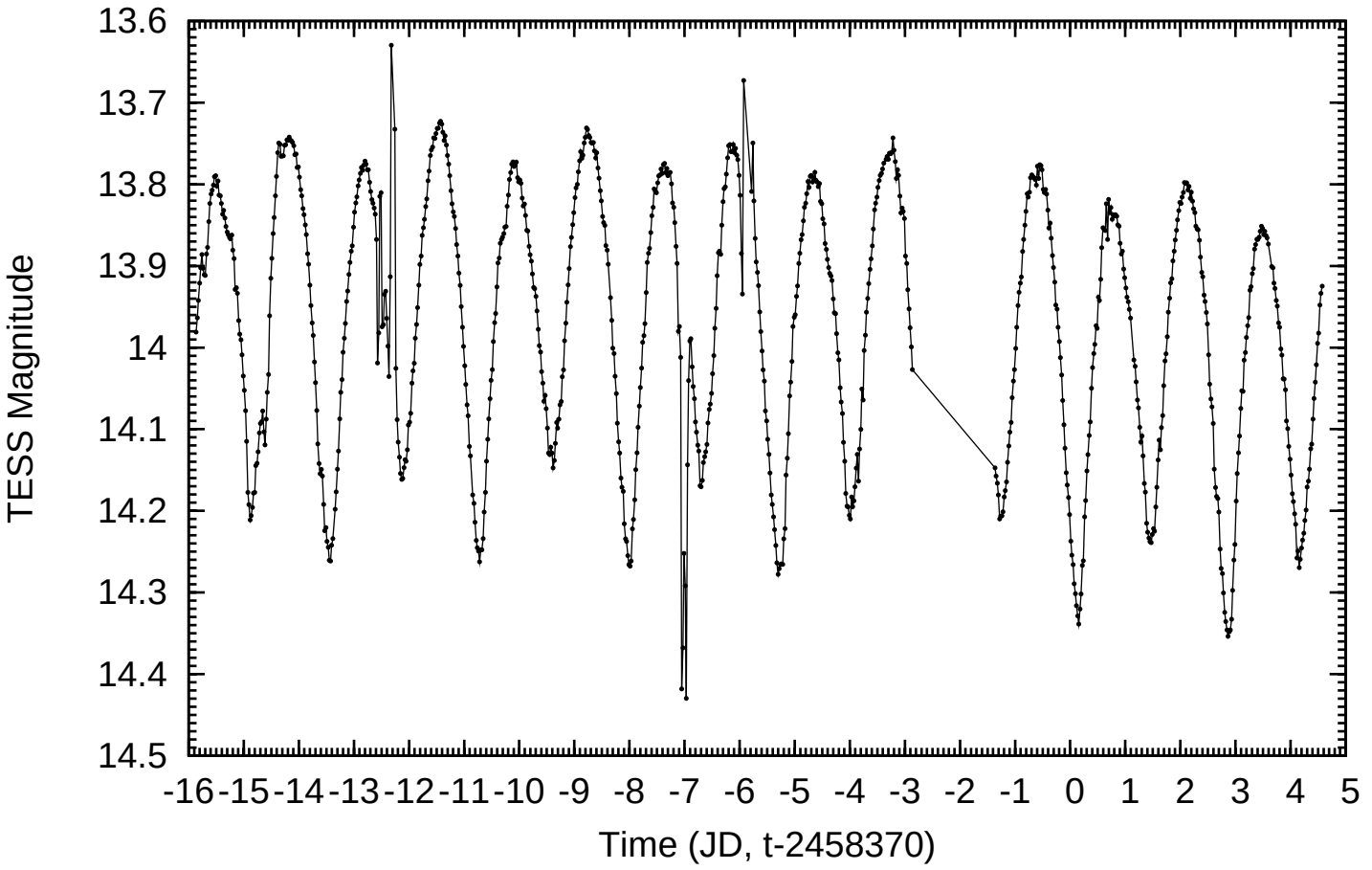
481

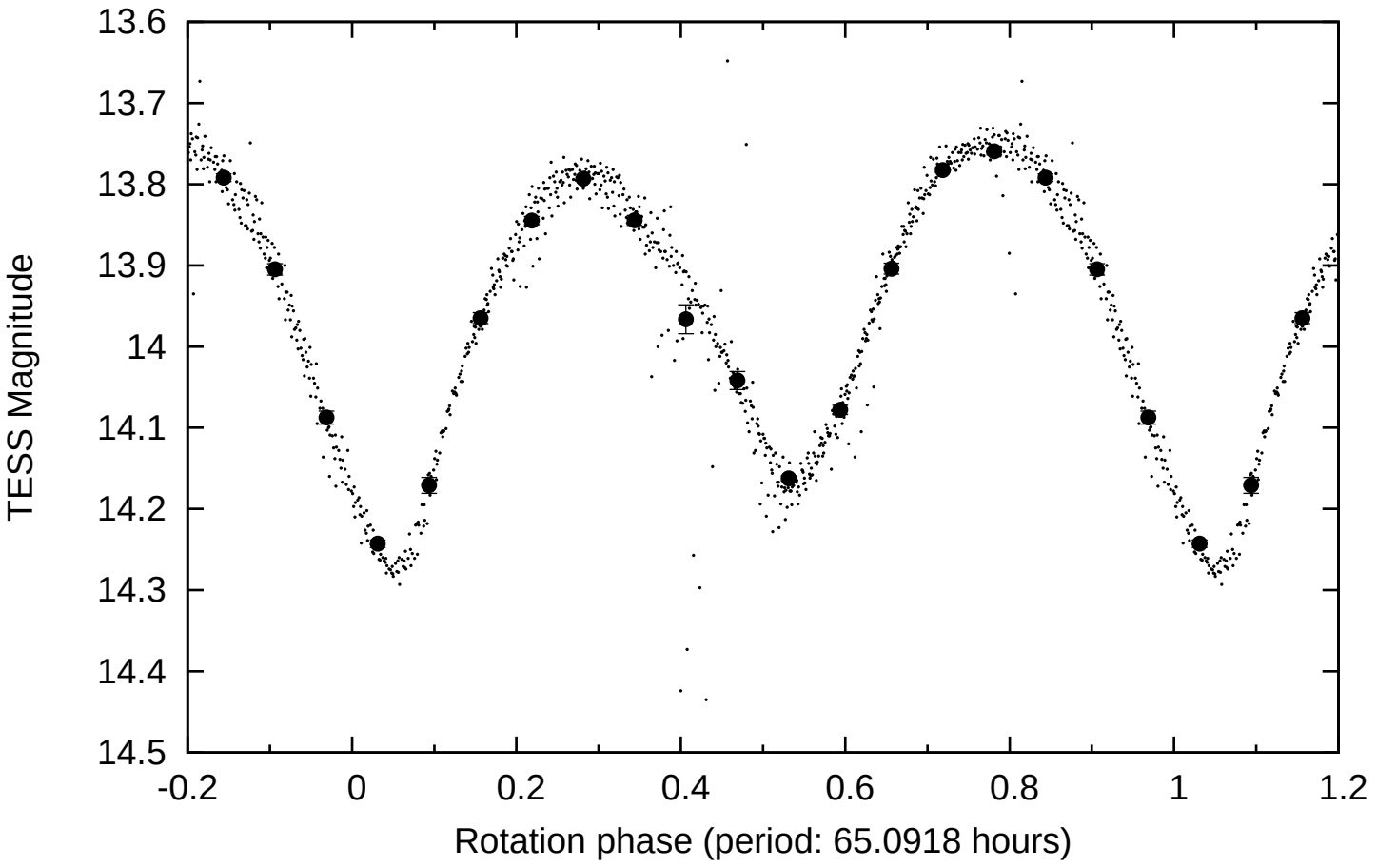

TESS Magnitude
11.4
11.5
11.6
11.7
11.8
11.9
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458370)

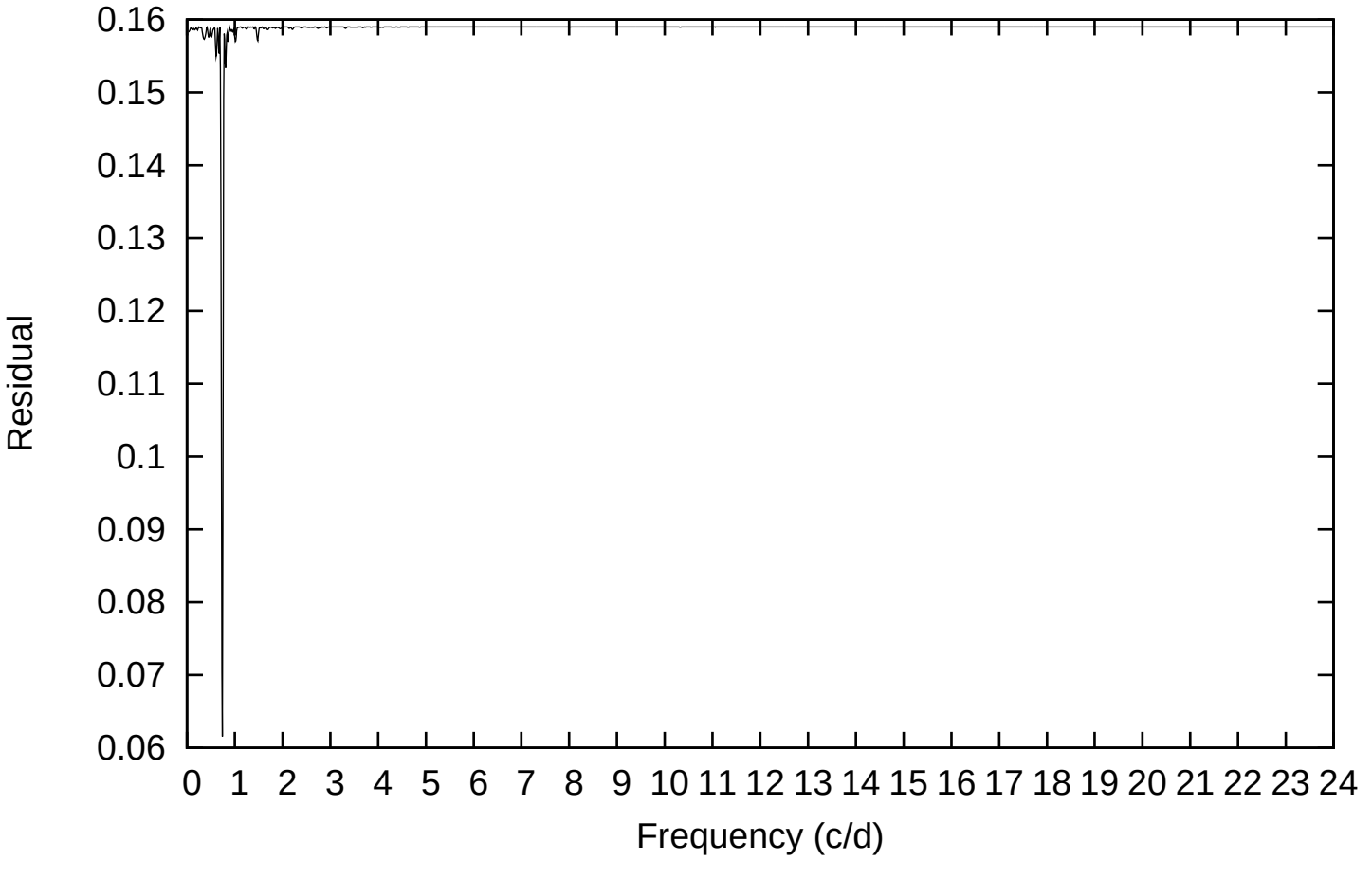

TESS Magnitude
11.4
11.45
11.5
11.55
11.6
11.65
11.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 14.4526 hours)


Residual
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

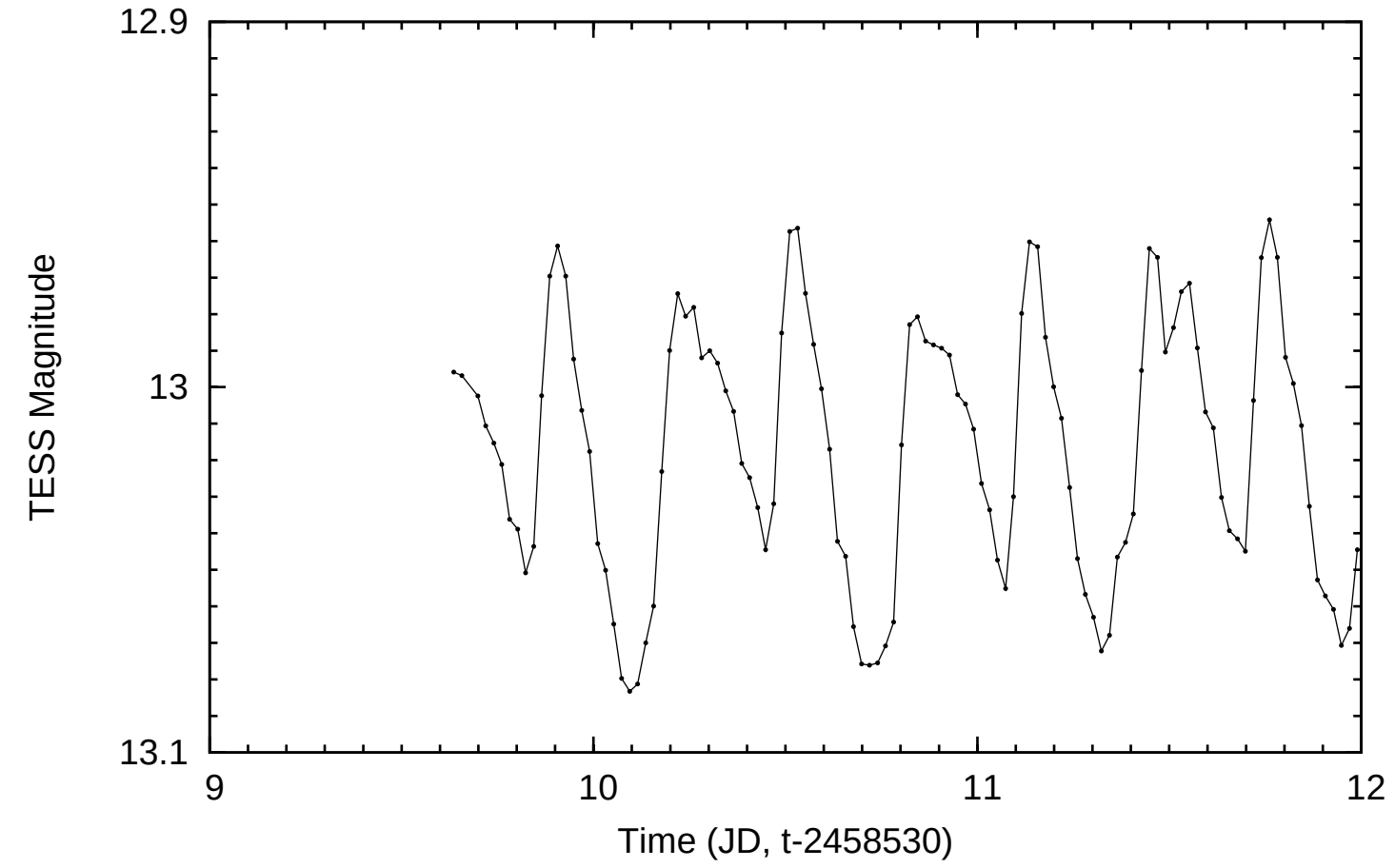
486

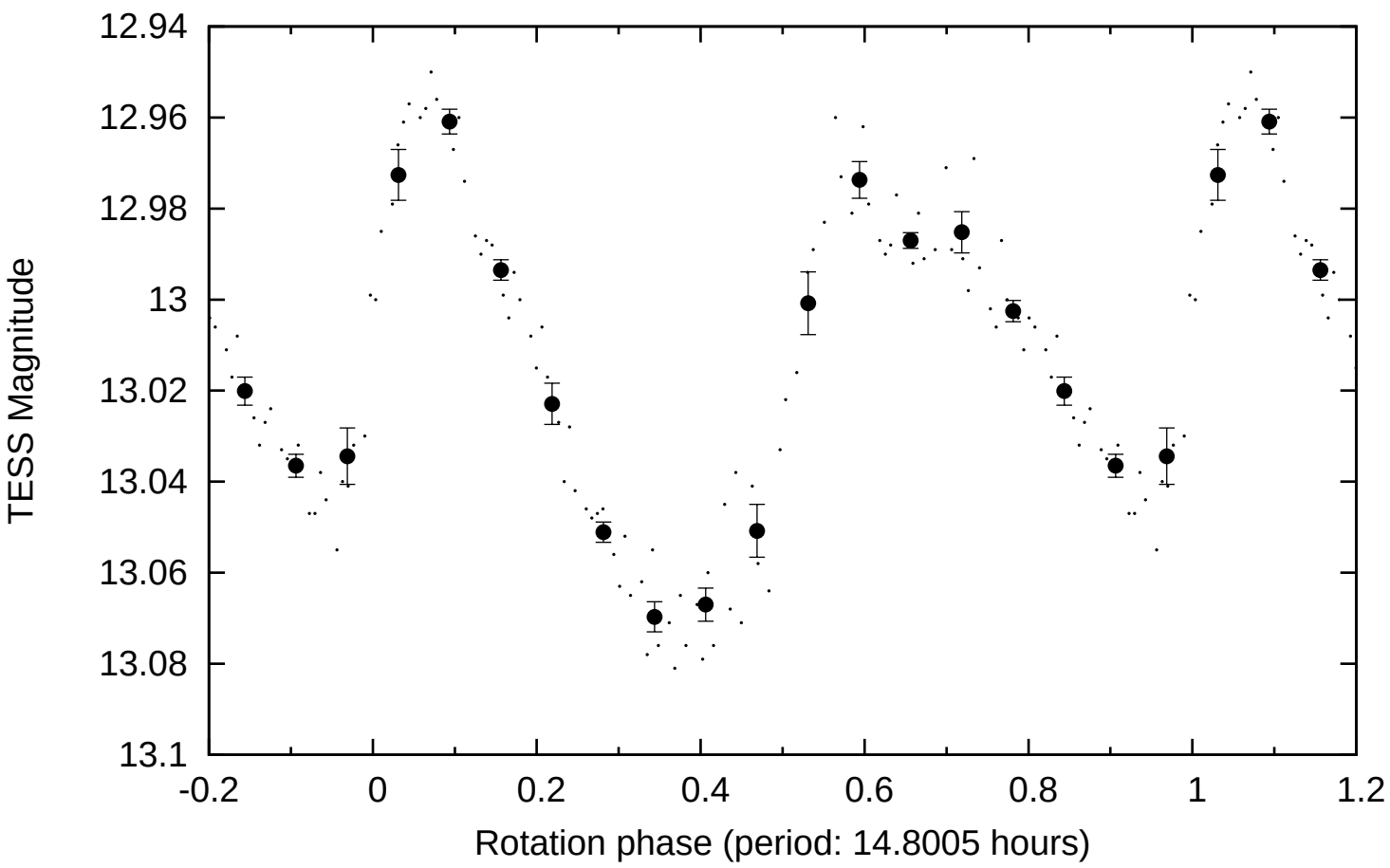

TESS Magnitude
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5
Time (JD, t-2458370)

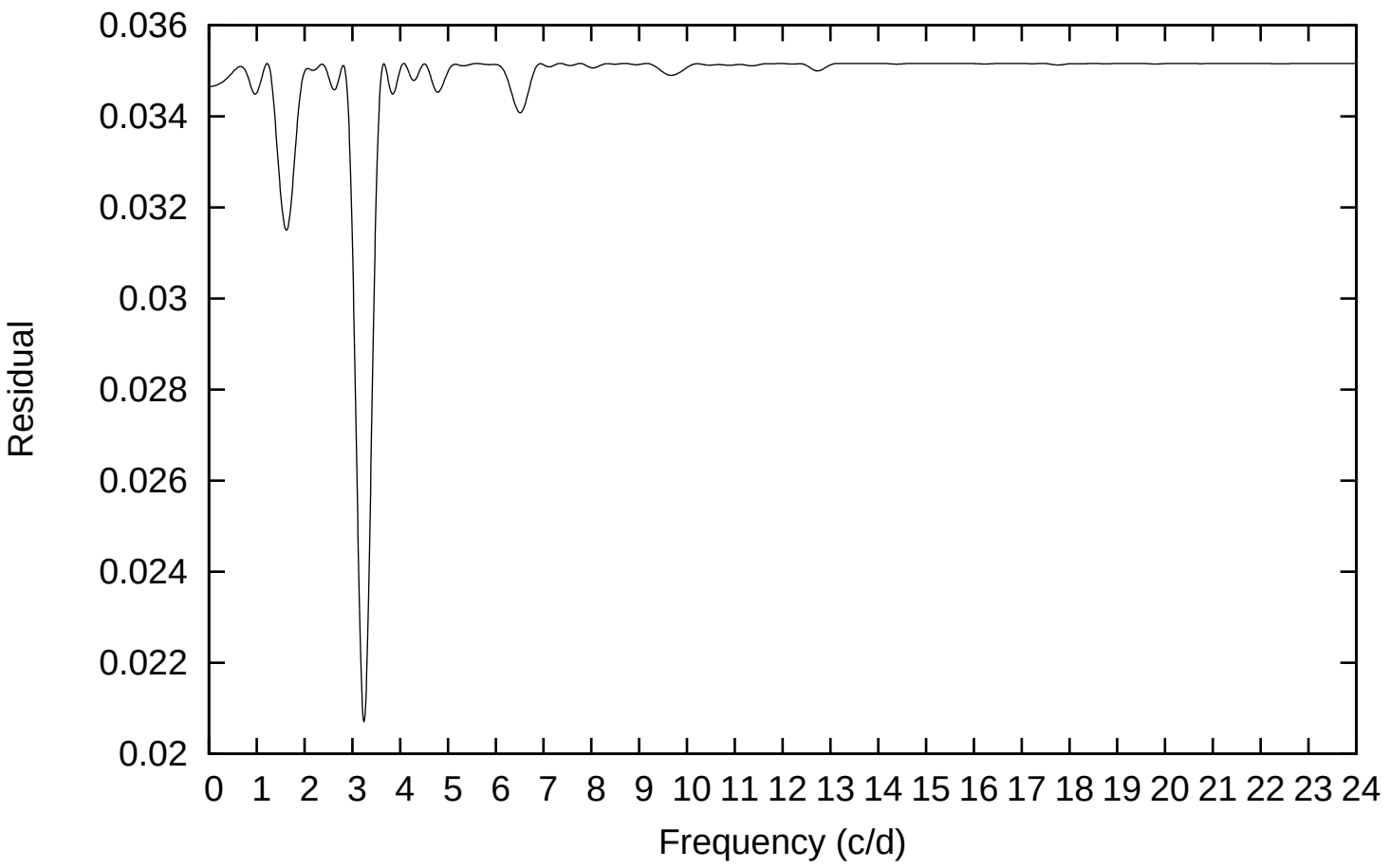

TESS Magnitude
13.6
13.7
13.8
13.9
14
14.1
14.2
14.3
14.4
14.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 65.0918 hours)


Residual
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

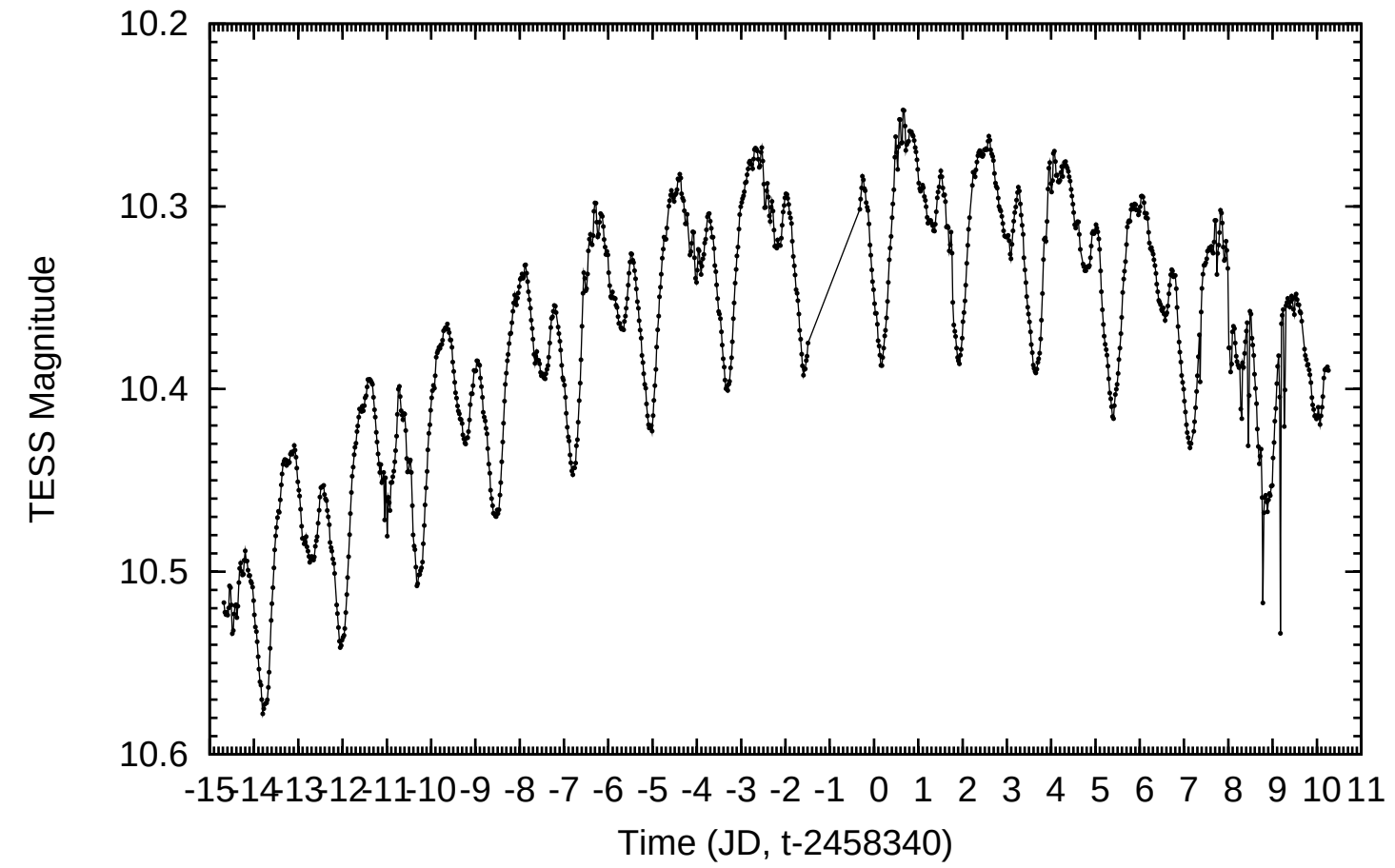
491

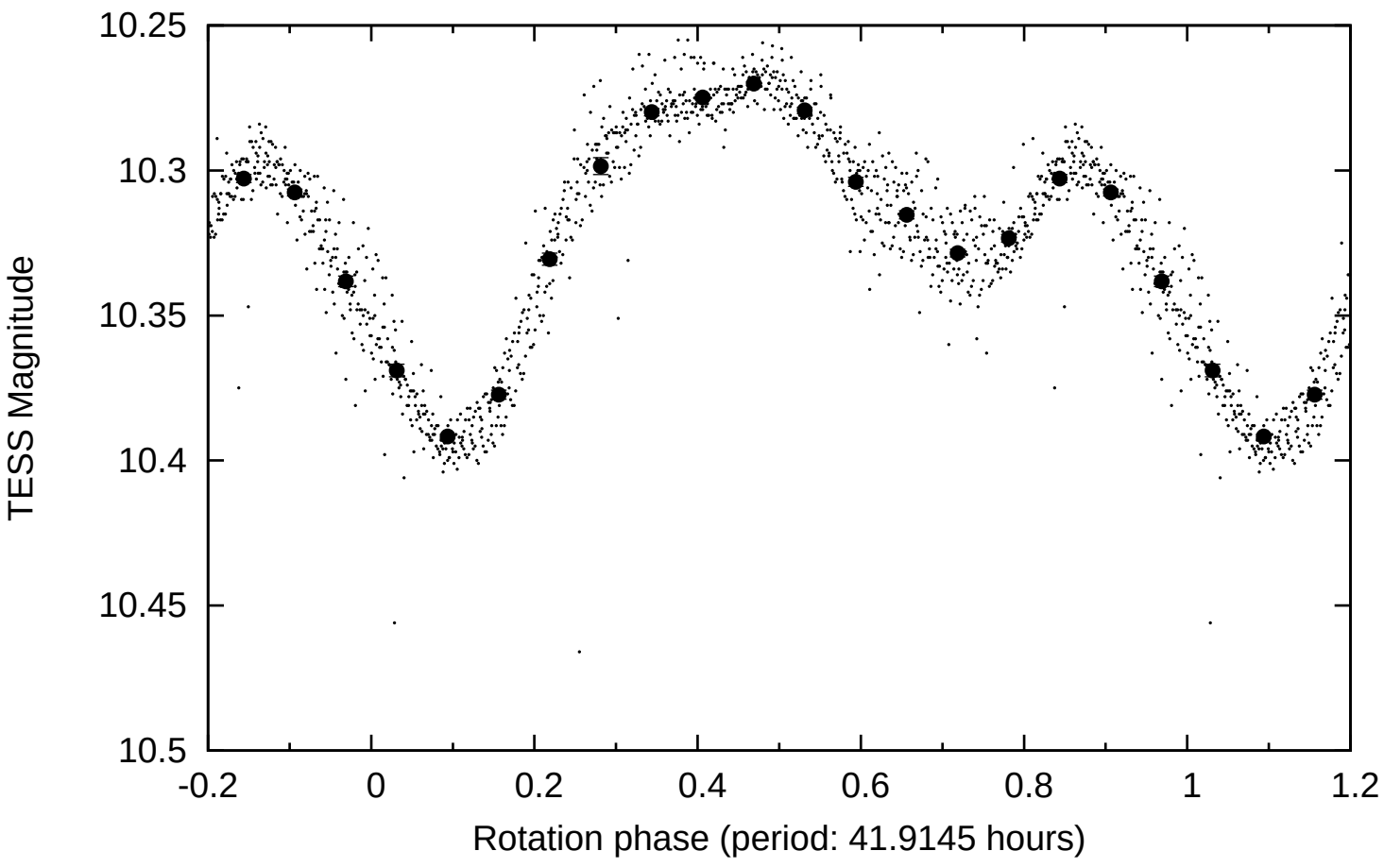

12.9
13
13.1
TESS Magnitude
9
10
11
12
Time (JD, t-2458530)

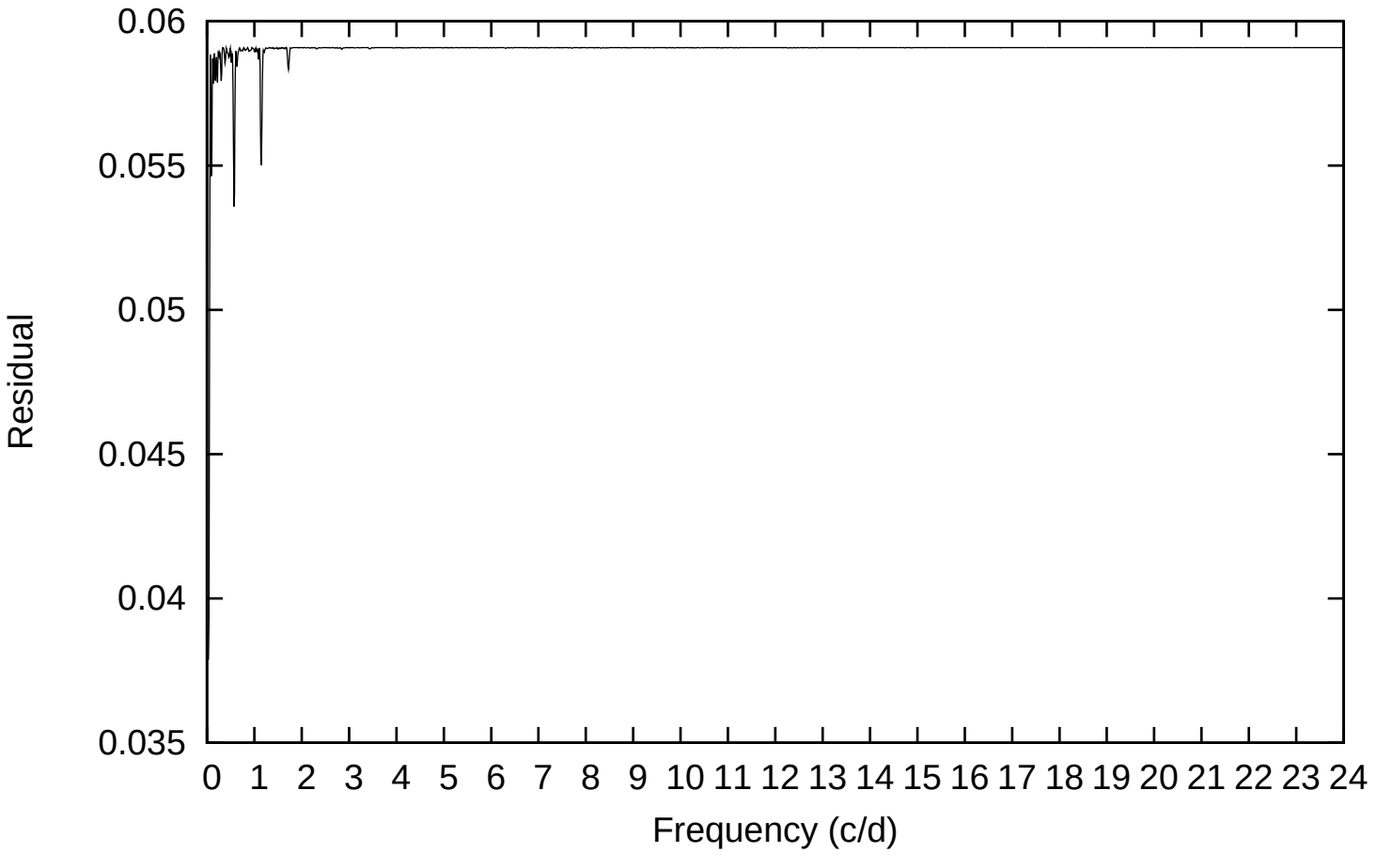

12.94
12.96
12.98
13
13.02
13.04
13.06
13.08
13.1
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 14.8005 hours)


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 21 22 23 24
Frequency (c/d)

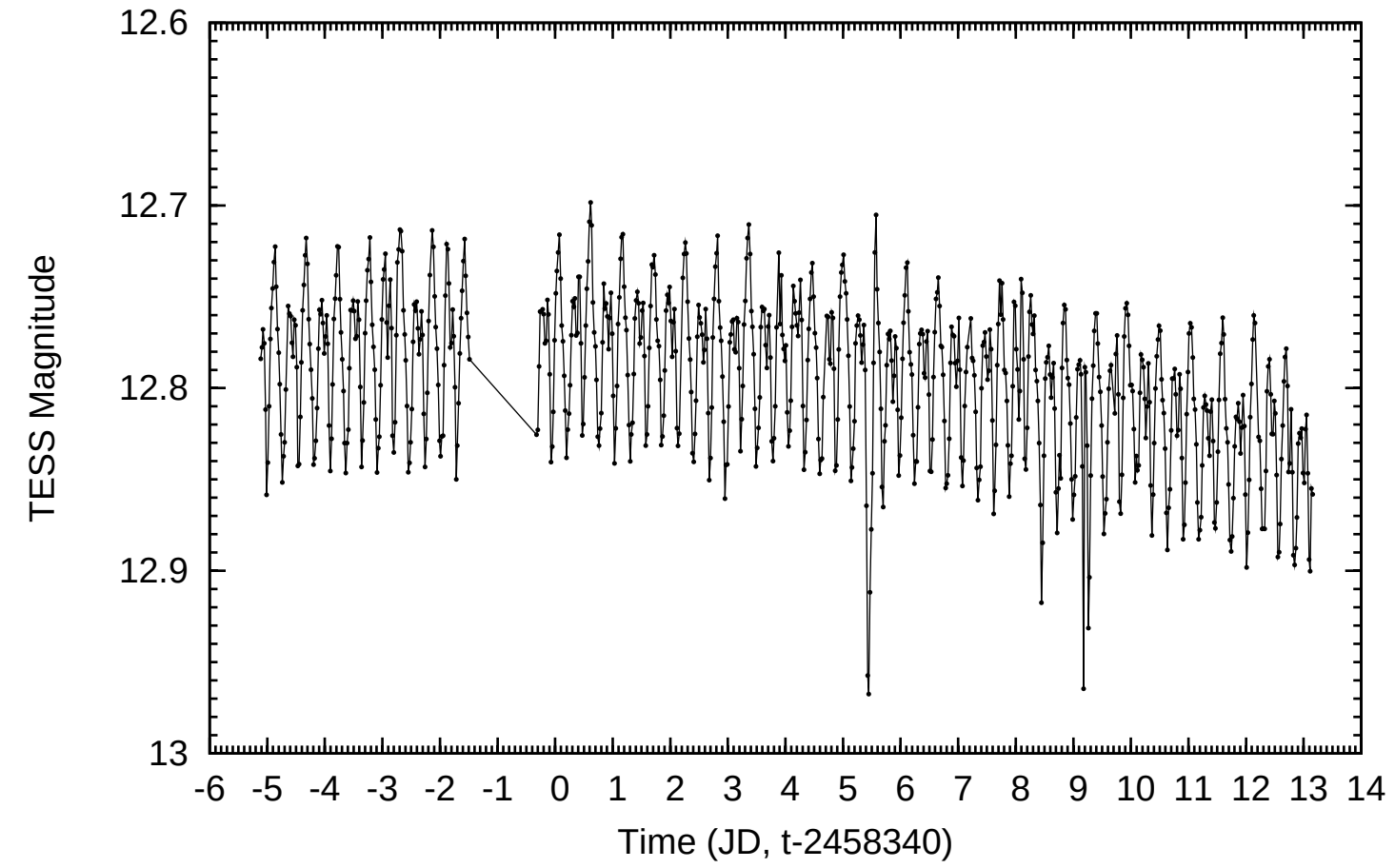
498

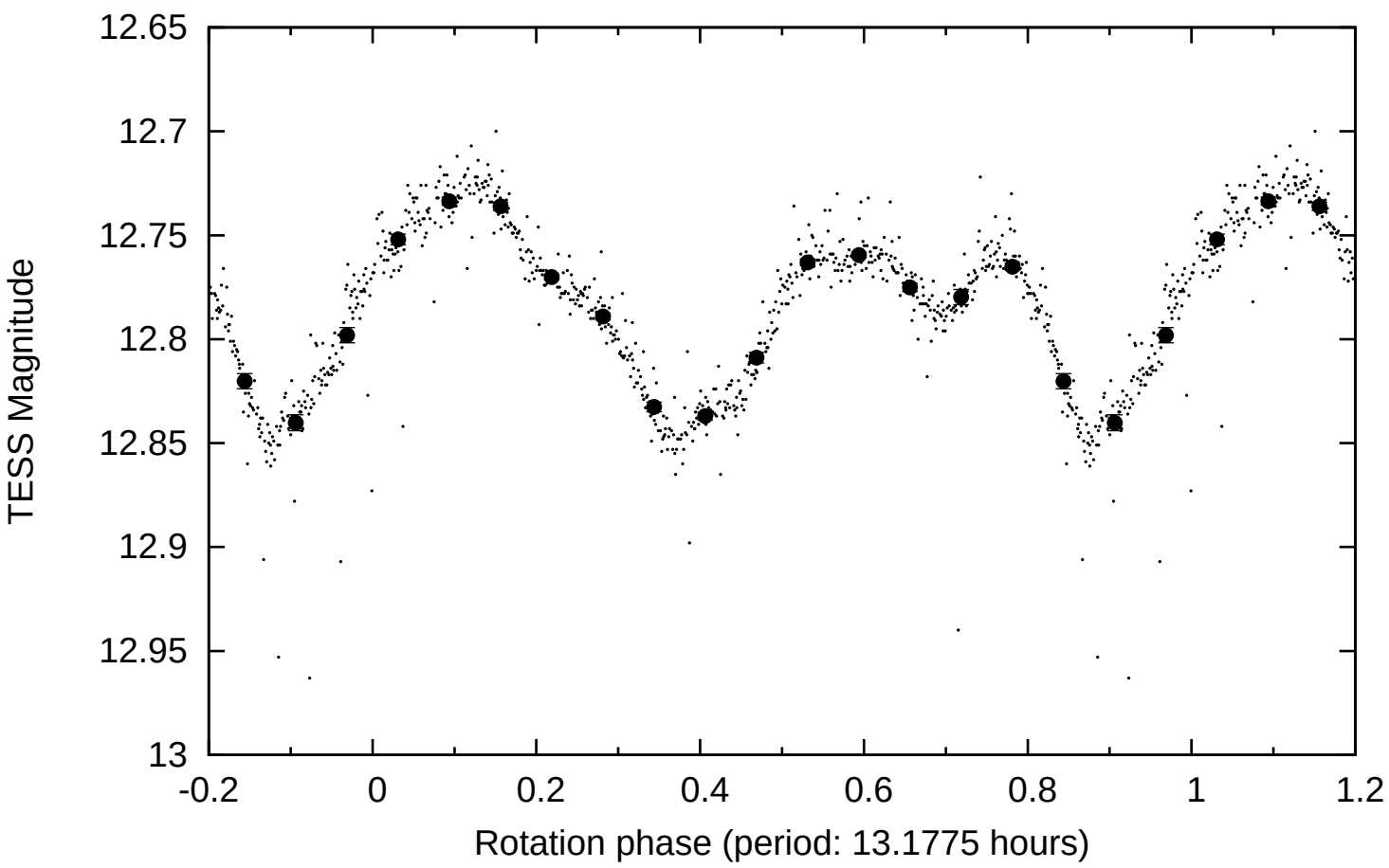

TESS Magnitude
10.2
10.3
10.4
10.5
10.6
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11
Time (JD, t-2458340)

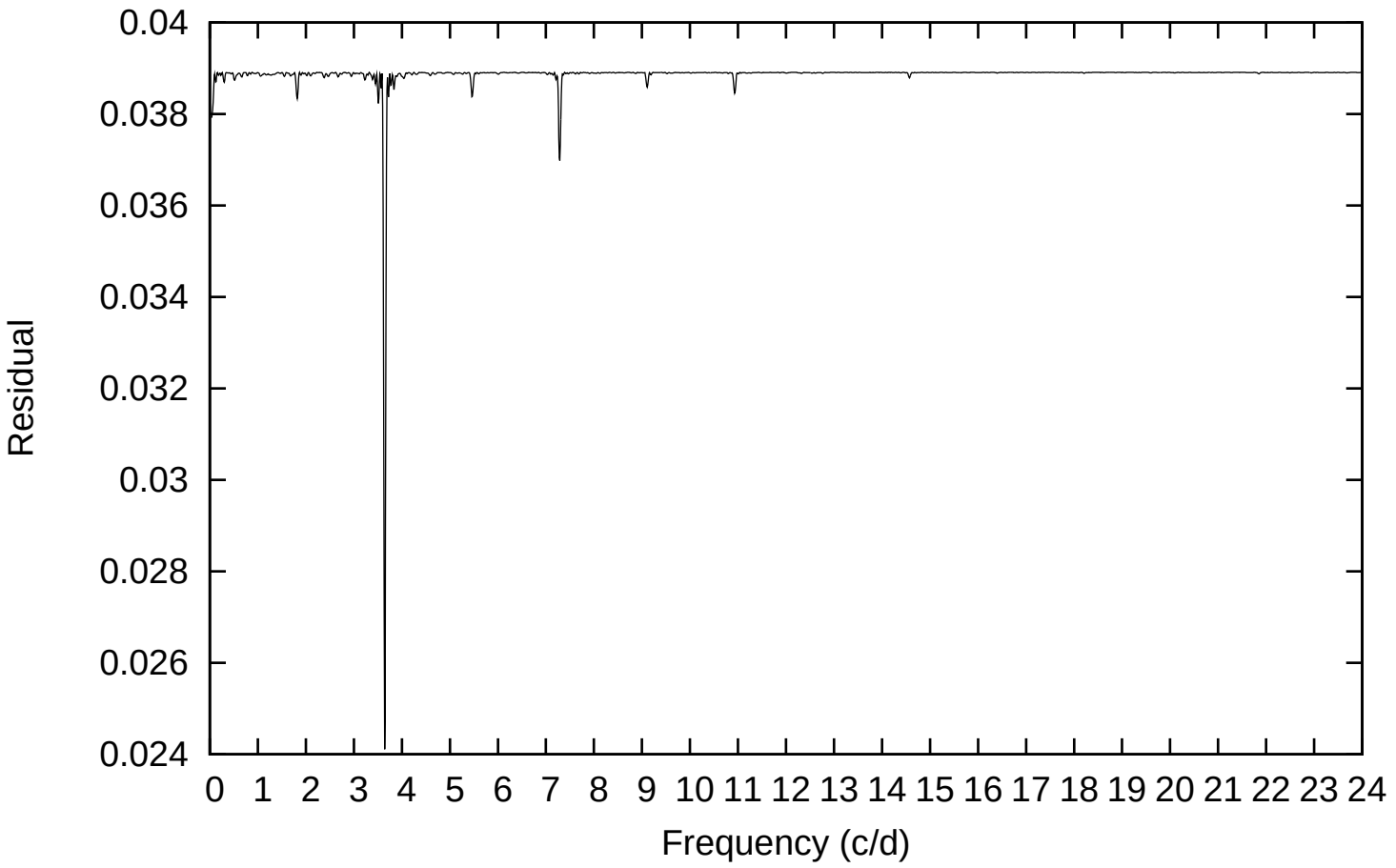

TESS Magnitude
10.25
10.3
10.35
10.4
10.45
10.5
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 41.9145 hours)


Residual
0.06
0.055
0.05
0.045
0.04
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

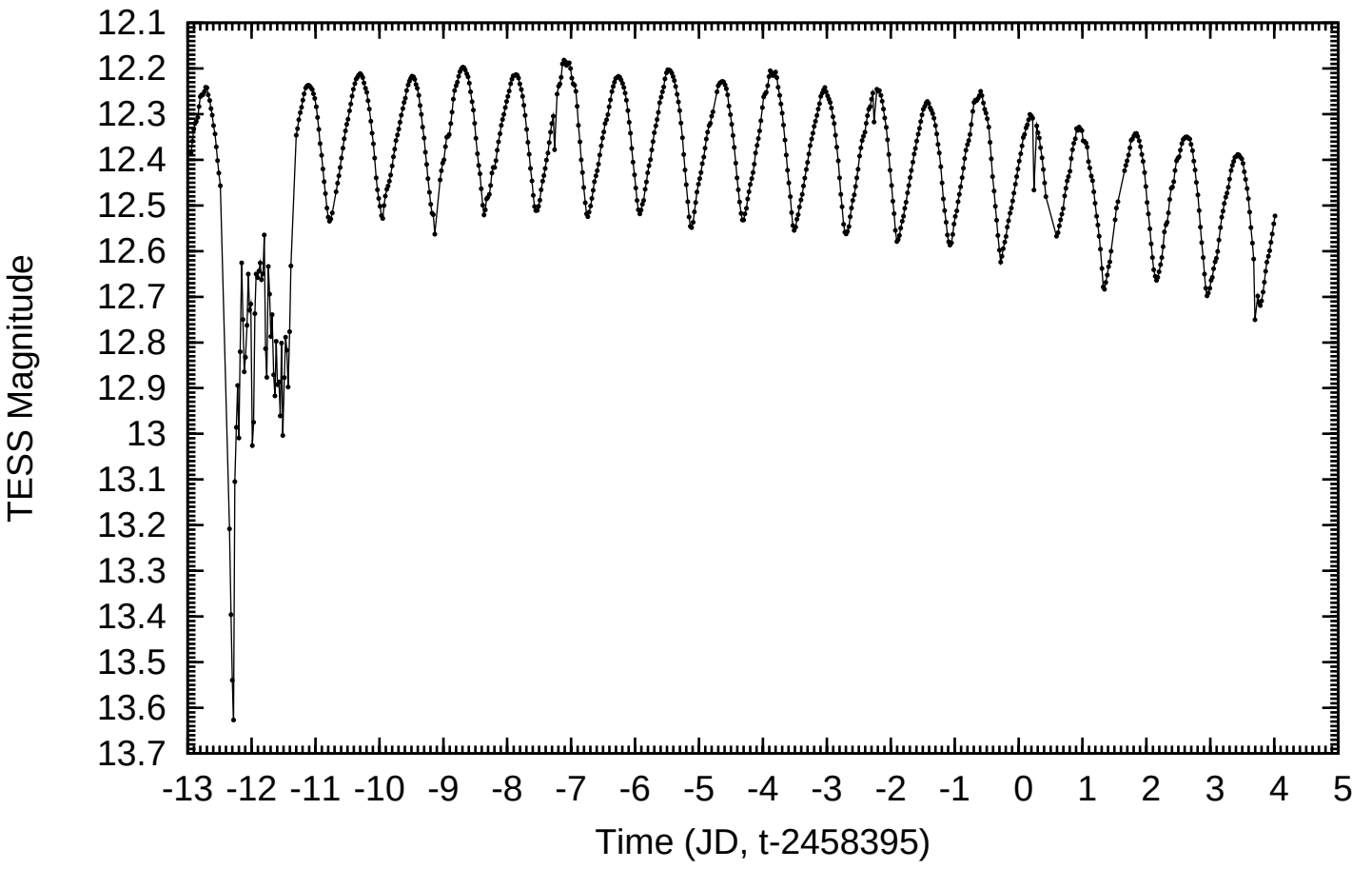
501

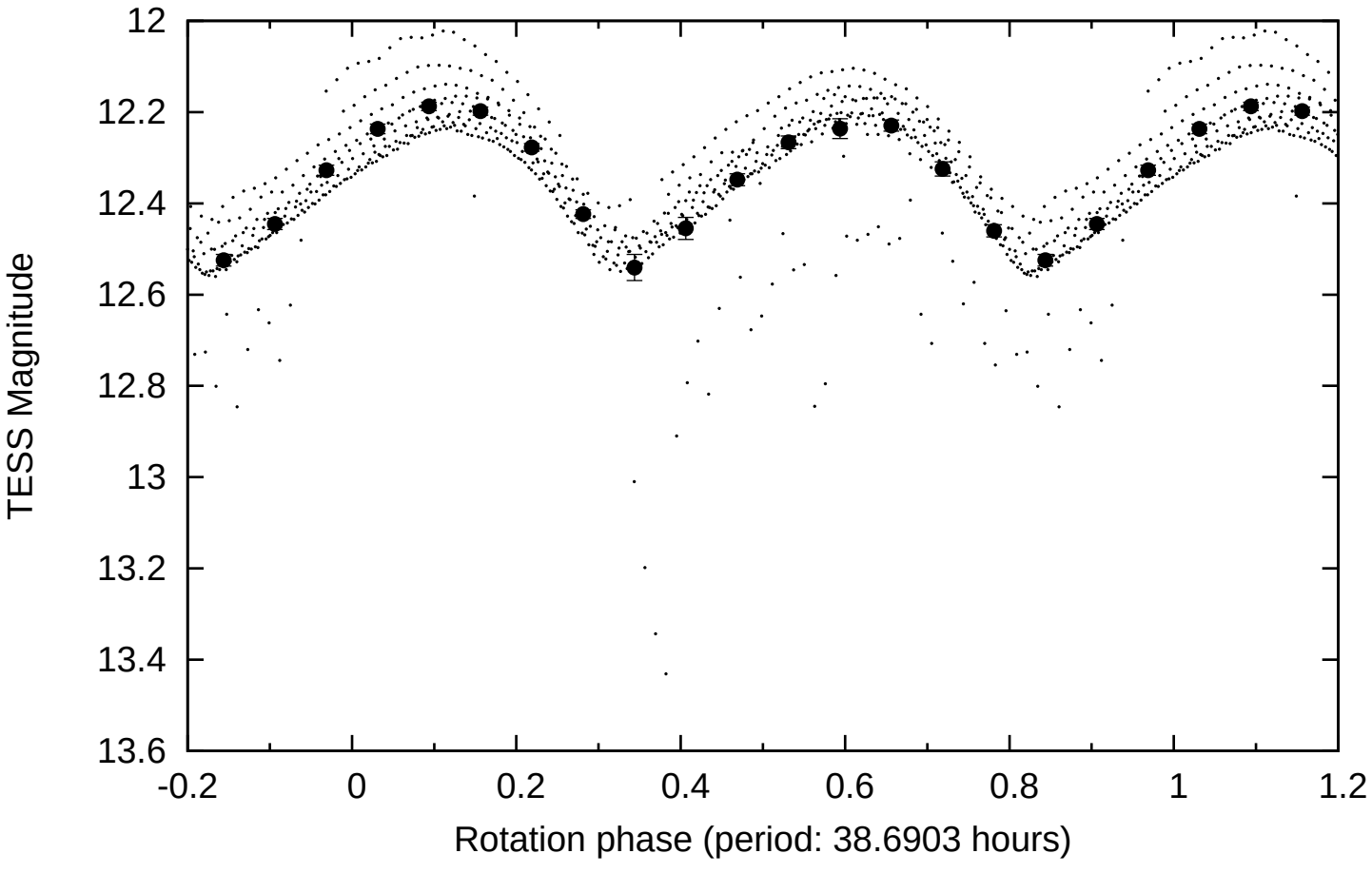

12.6
12.7
12.8
12.9
13
TESS Magnitude
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458340)

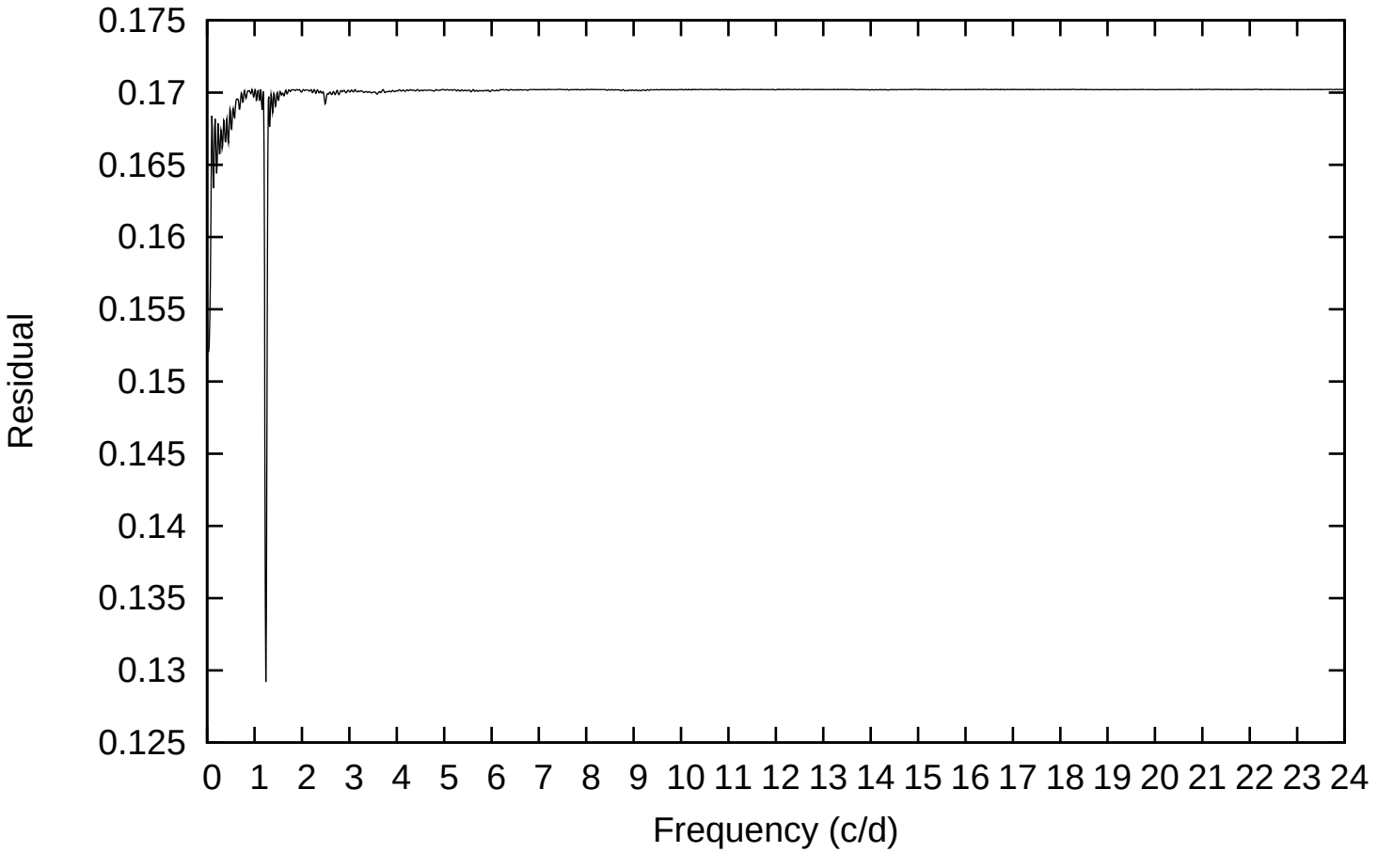

12.65
12.7
12.75
12.8
12.85
12.9
12.95
13
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 13.1775 hours)


0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

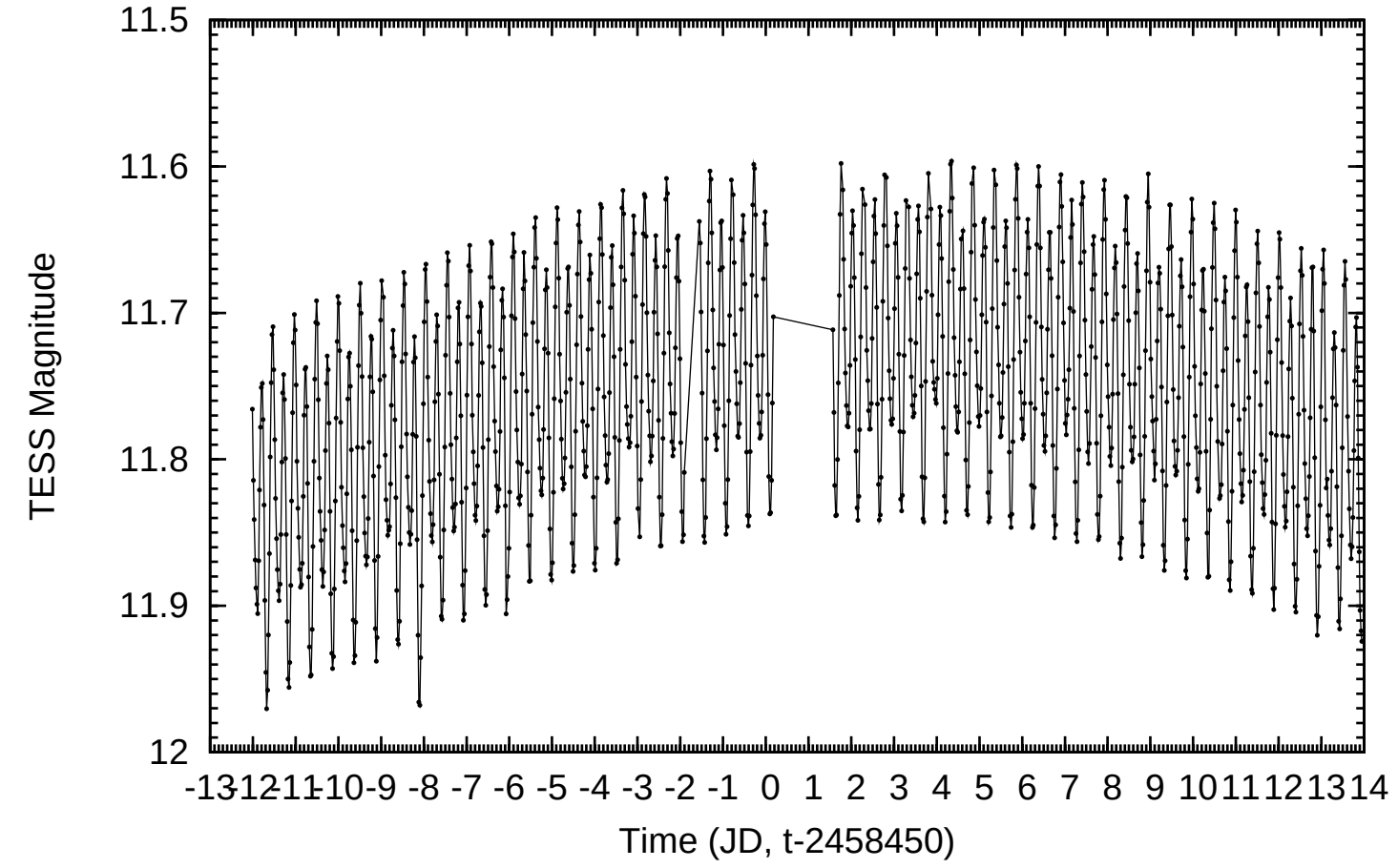
503

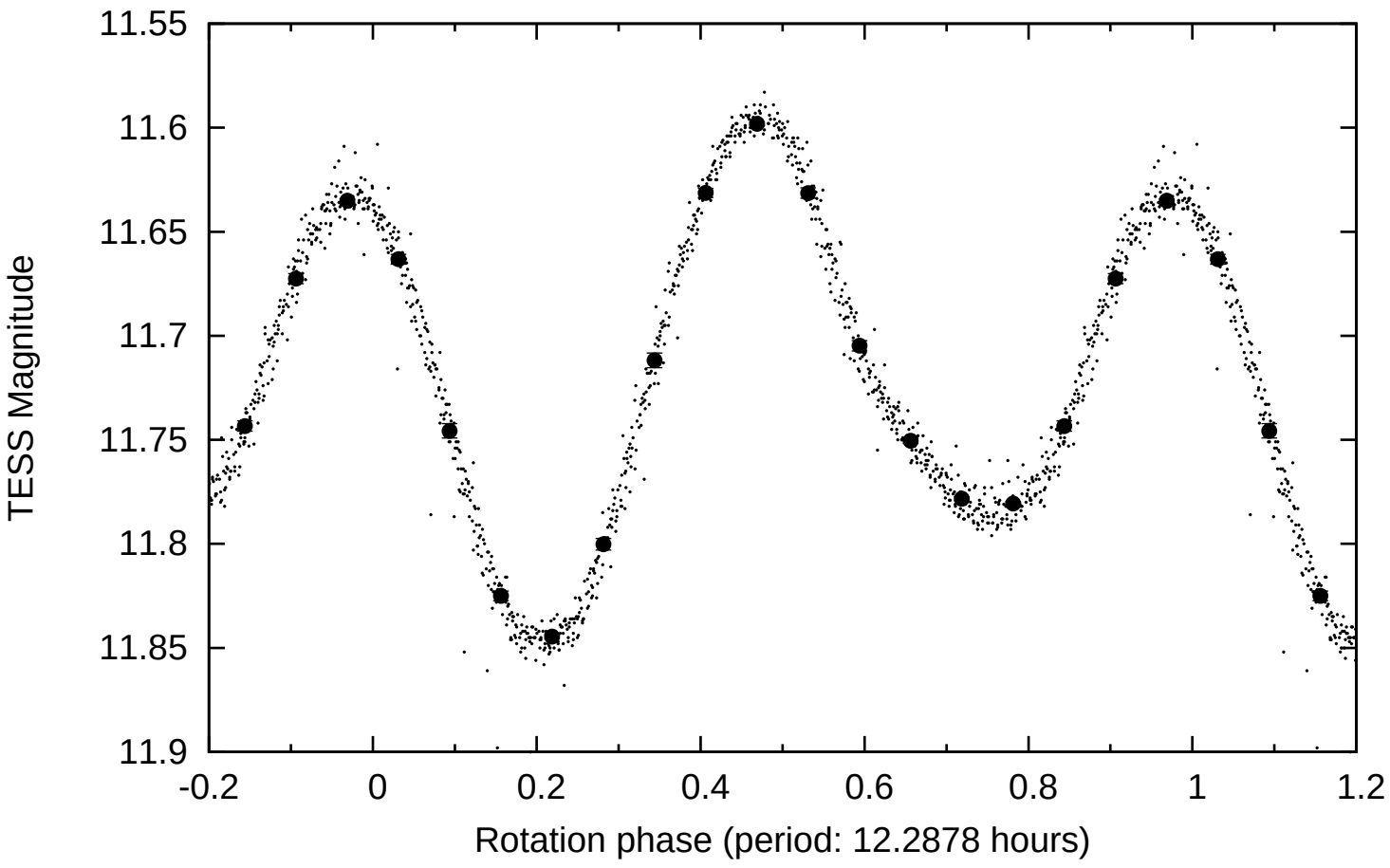

TESS Magnitude
12.1
12.2
12.3
12.4
12.5
12.6
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5
Time (JD, t-2458395)

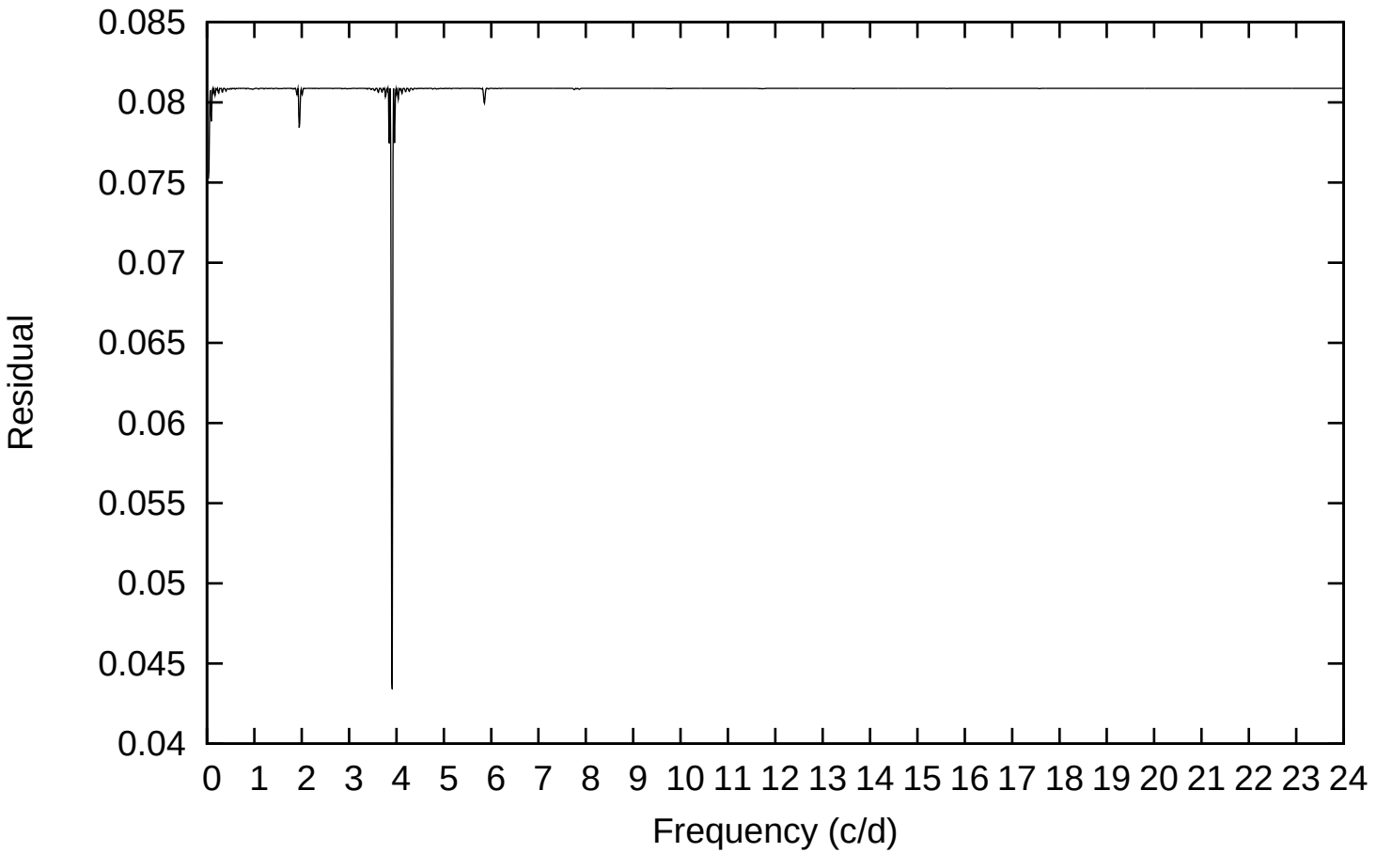

TESS Magnitude
12
12.2
12.4
12.6
12.8
13
13.2
13.4
13.6
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 38.6903 hours)


Residual
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

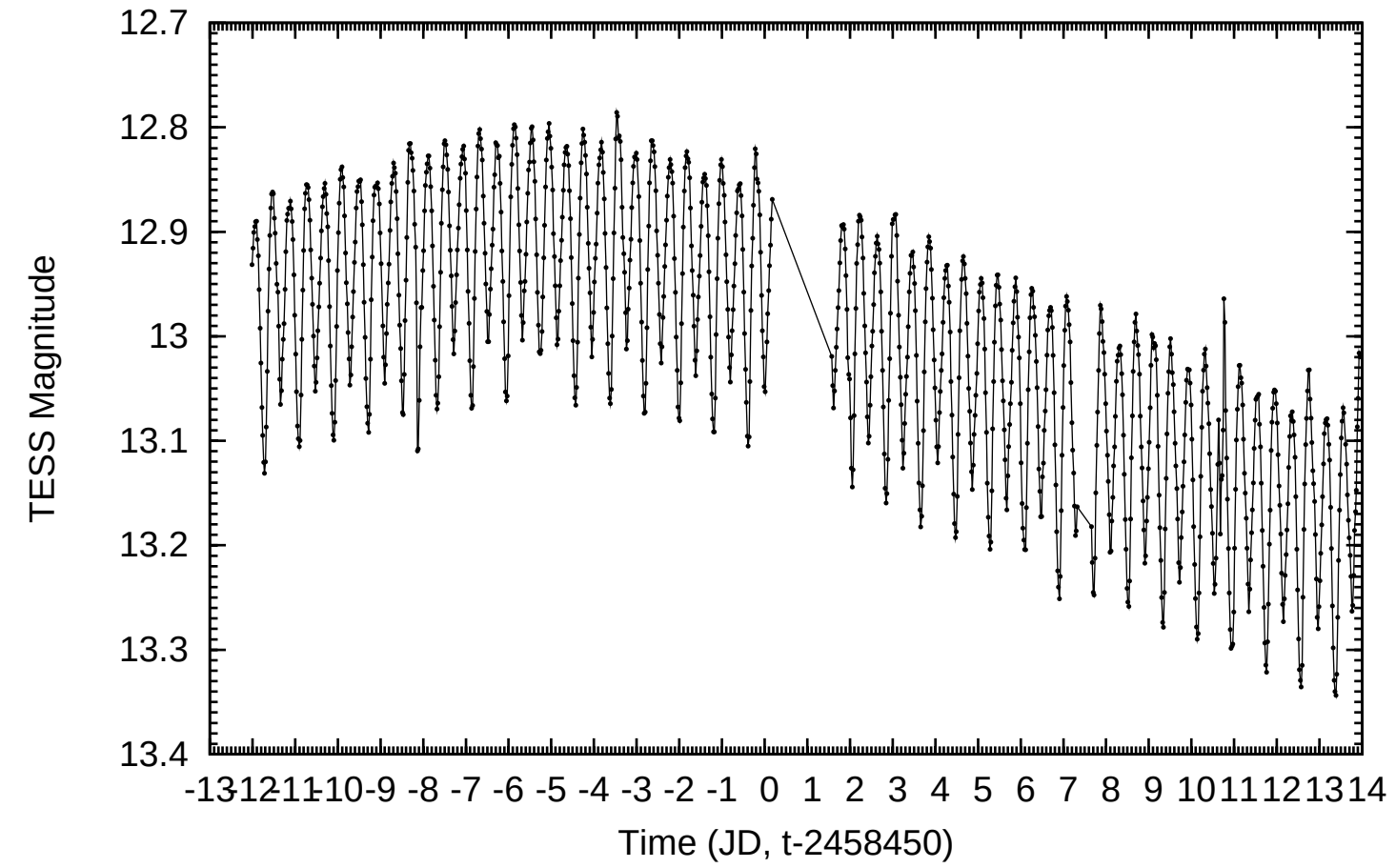
509

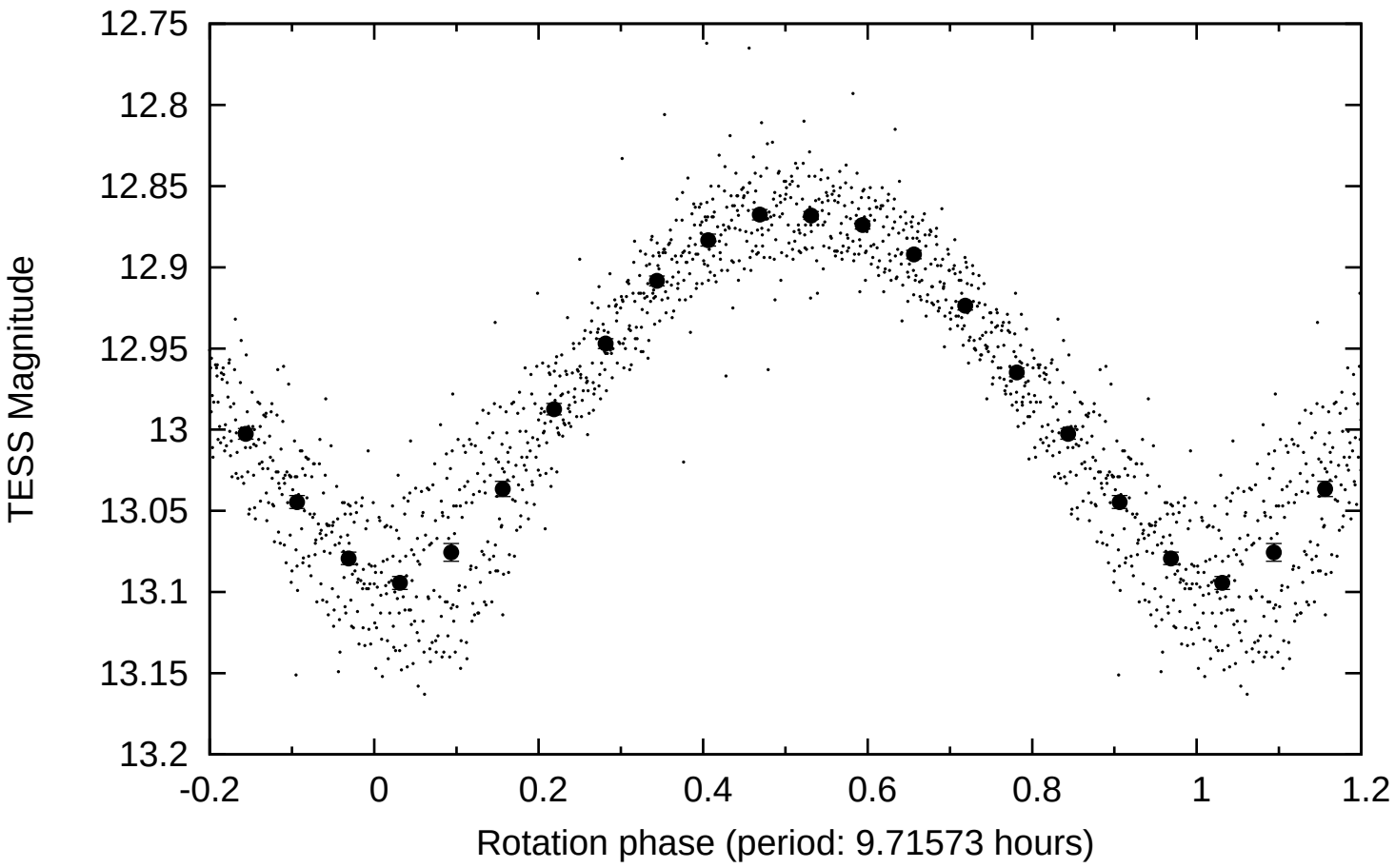

TESS Magnitude
11.5
11.6
11.7
11.8
11.9
12
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458450)

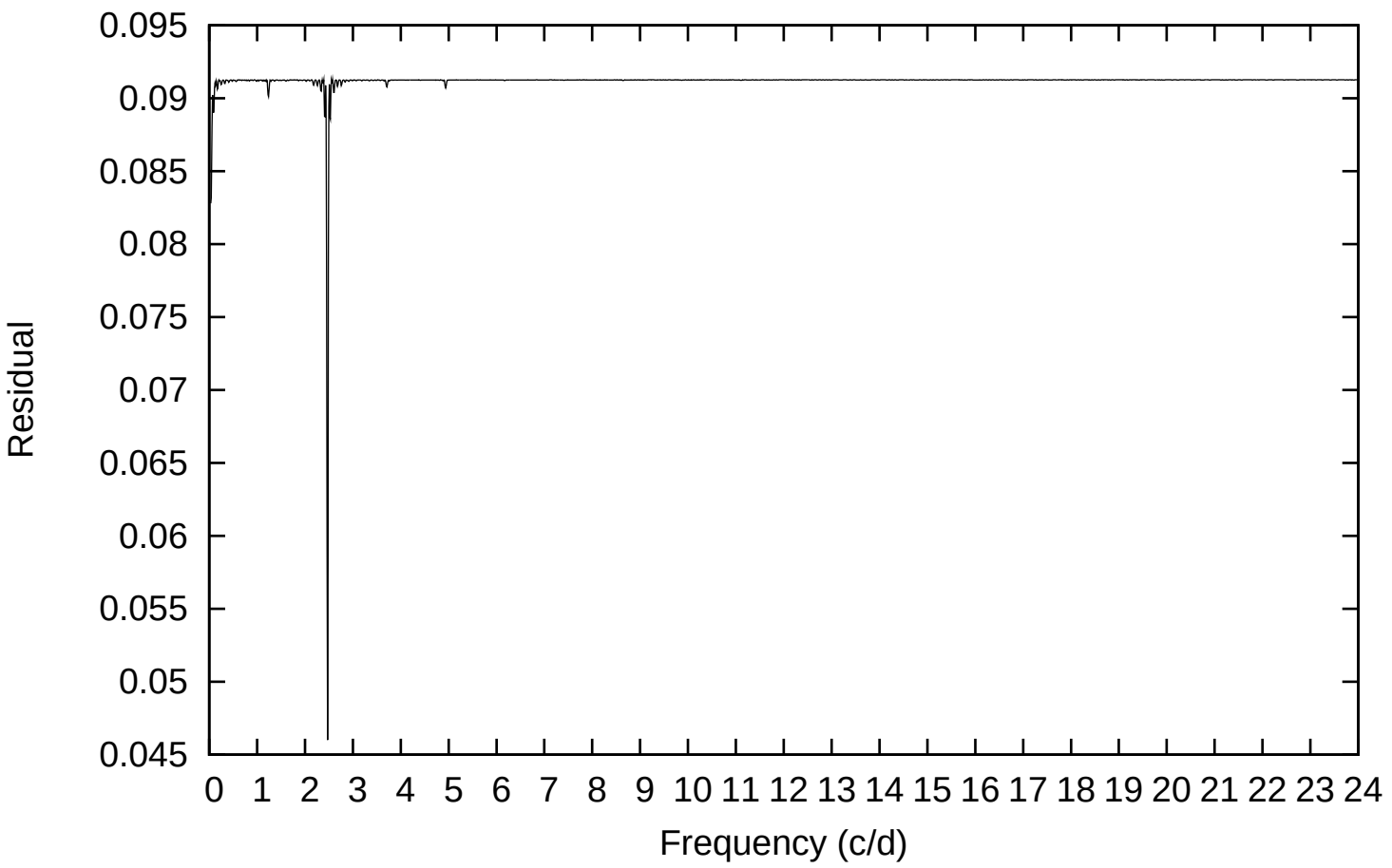

TESS Magnitude
11.55
11.6
11.65
11.7
11.75
11.8
11.85
11.9
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 12.2878 hours)


Residual
0.085
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 21 22 23 24
Frequency (c/d)

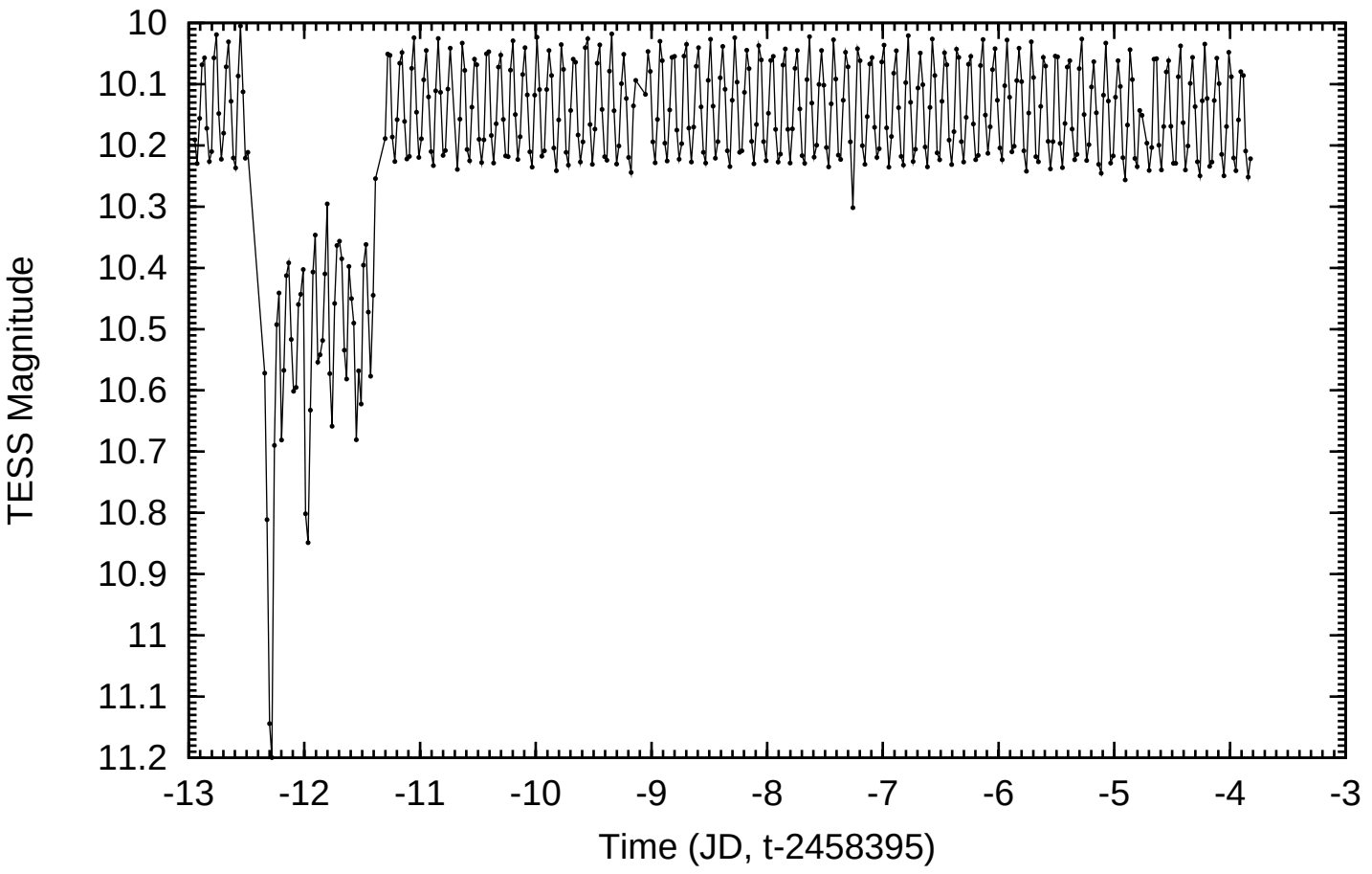
510

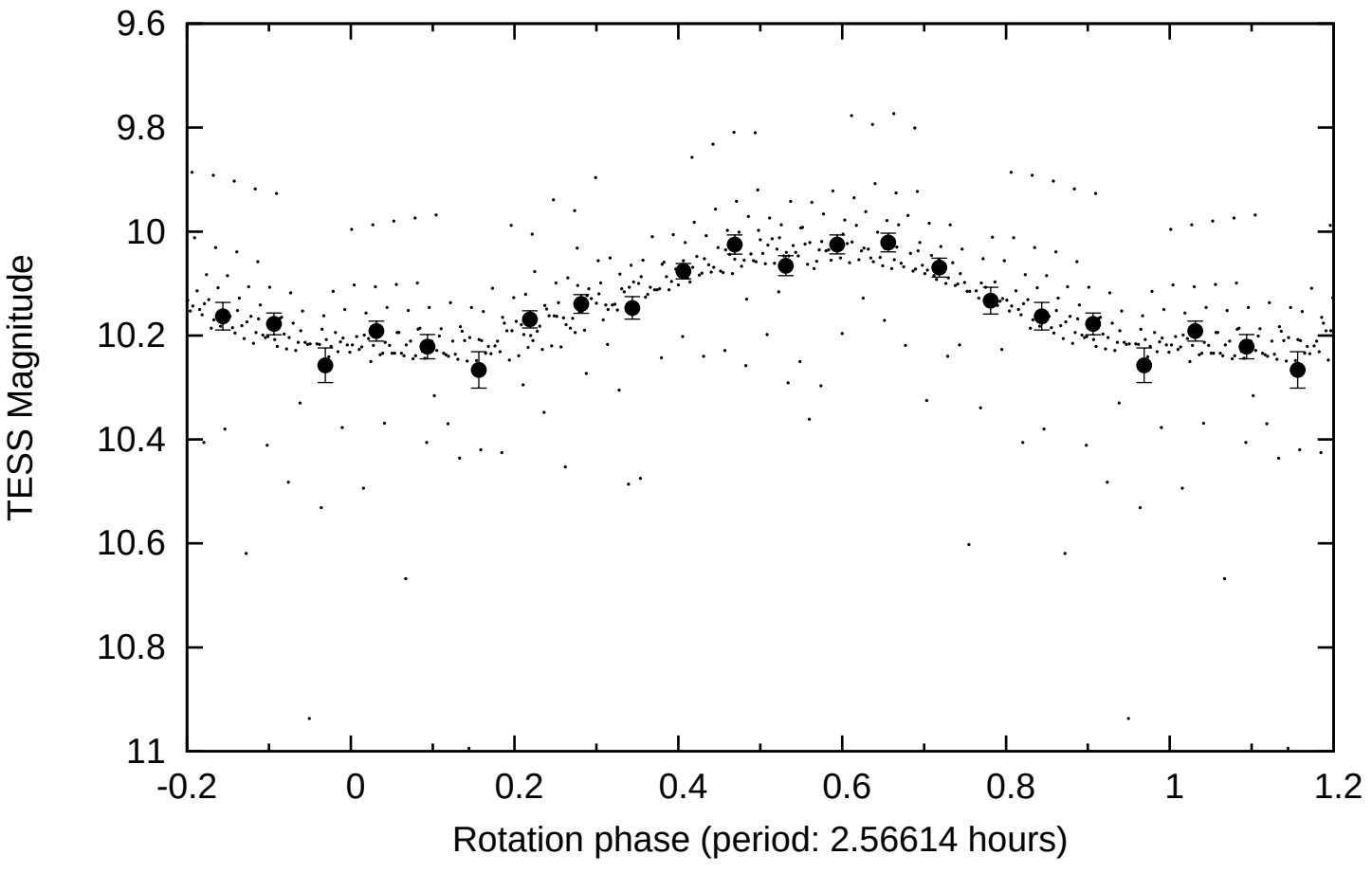

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
13.3
13.4
-13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458450)

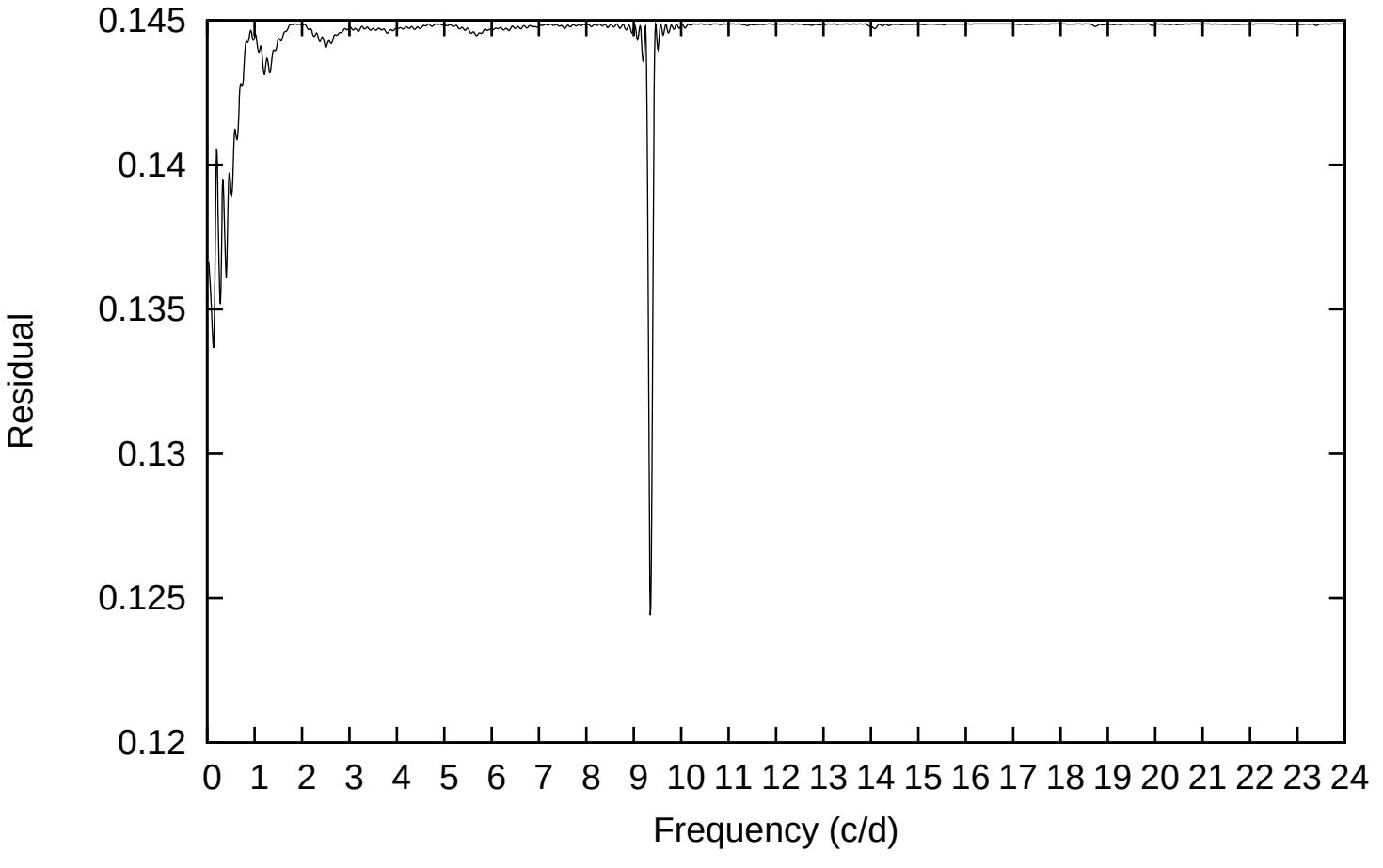

TESS Magnitude
12.75
12.8
12.85
12.9
12.95
13
13.05
13.1
13.15
13.2
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 9.71573 hours)


Residual
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

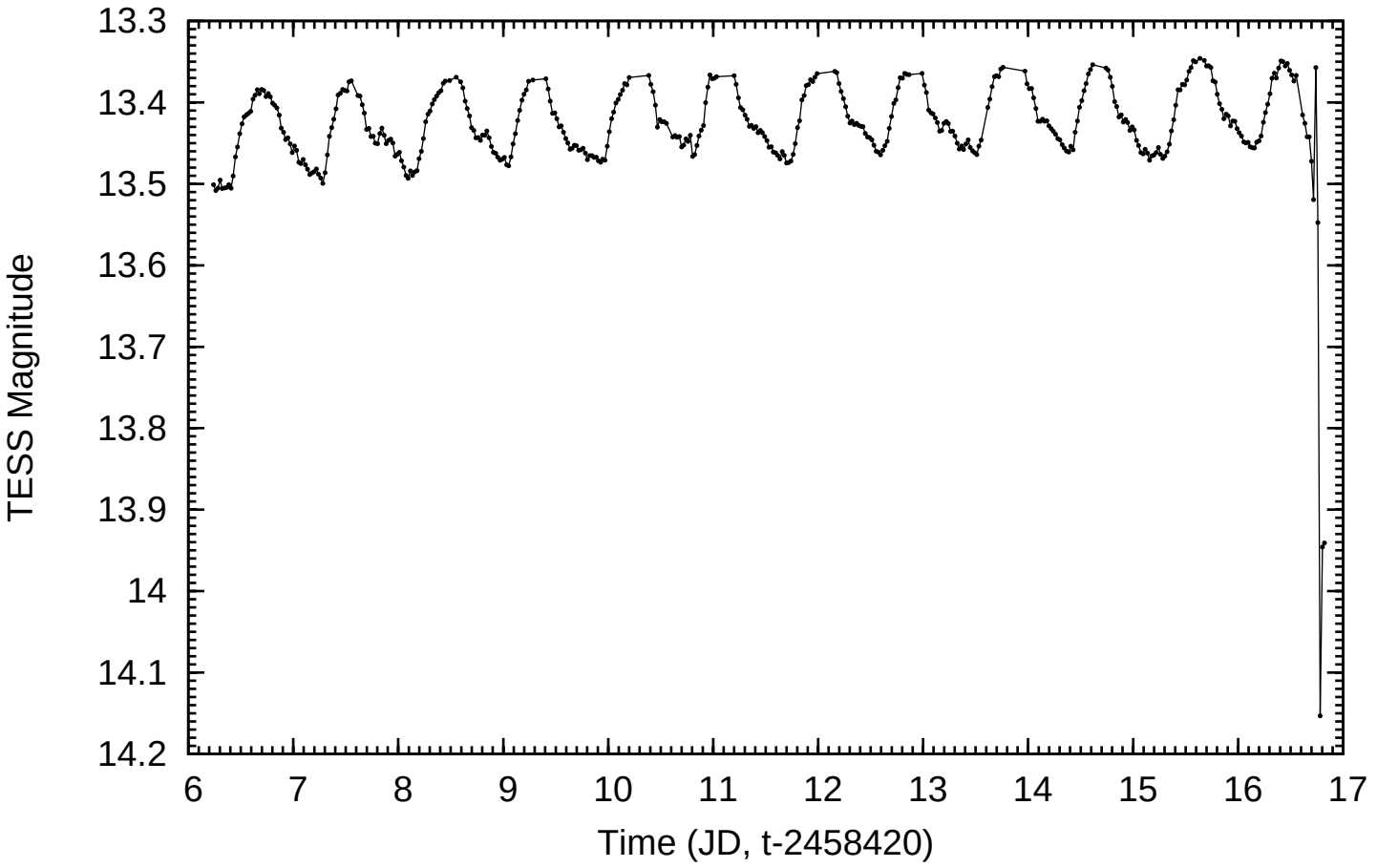
511

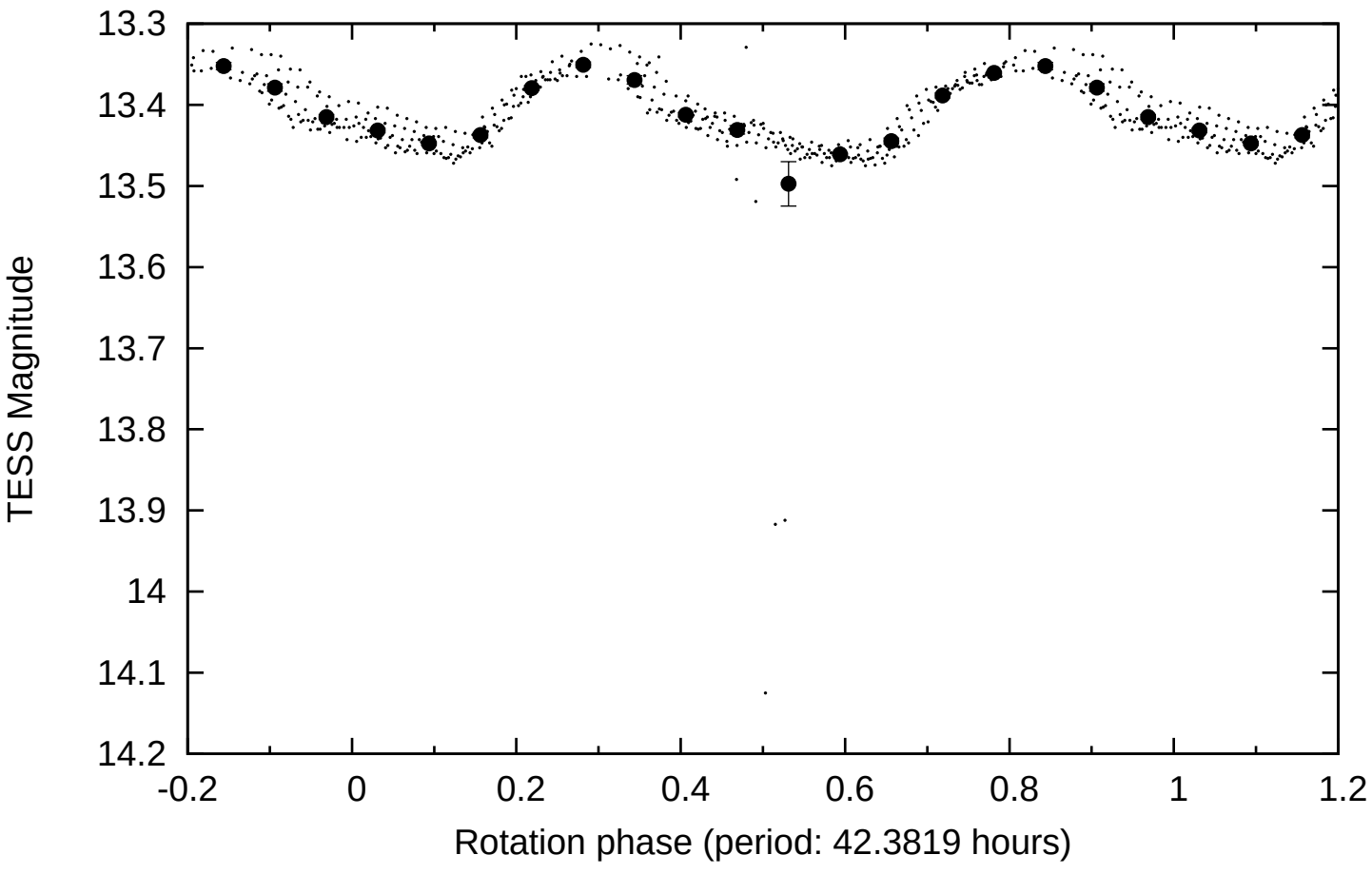

TESS Magnitude
10
10.1
10.2
10.3
10.4
10.5
10.6
10.7
10.8
10.9
11
11.1
11.2
-13
-12
-11
-10
-9
-8
-7
-6
-5
-4
-3
Time (JD, t-2458395)

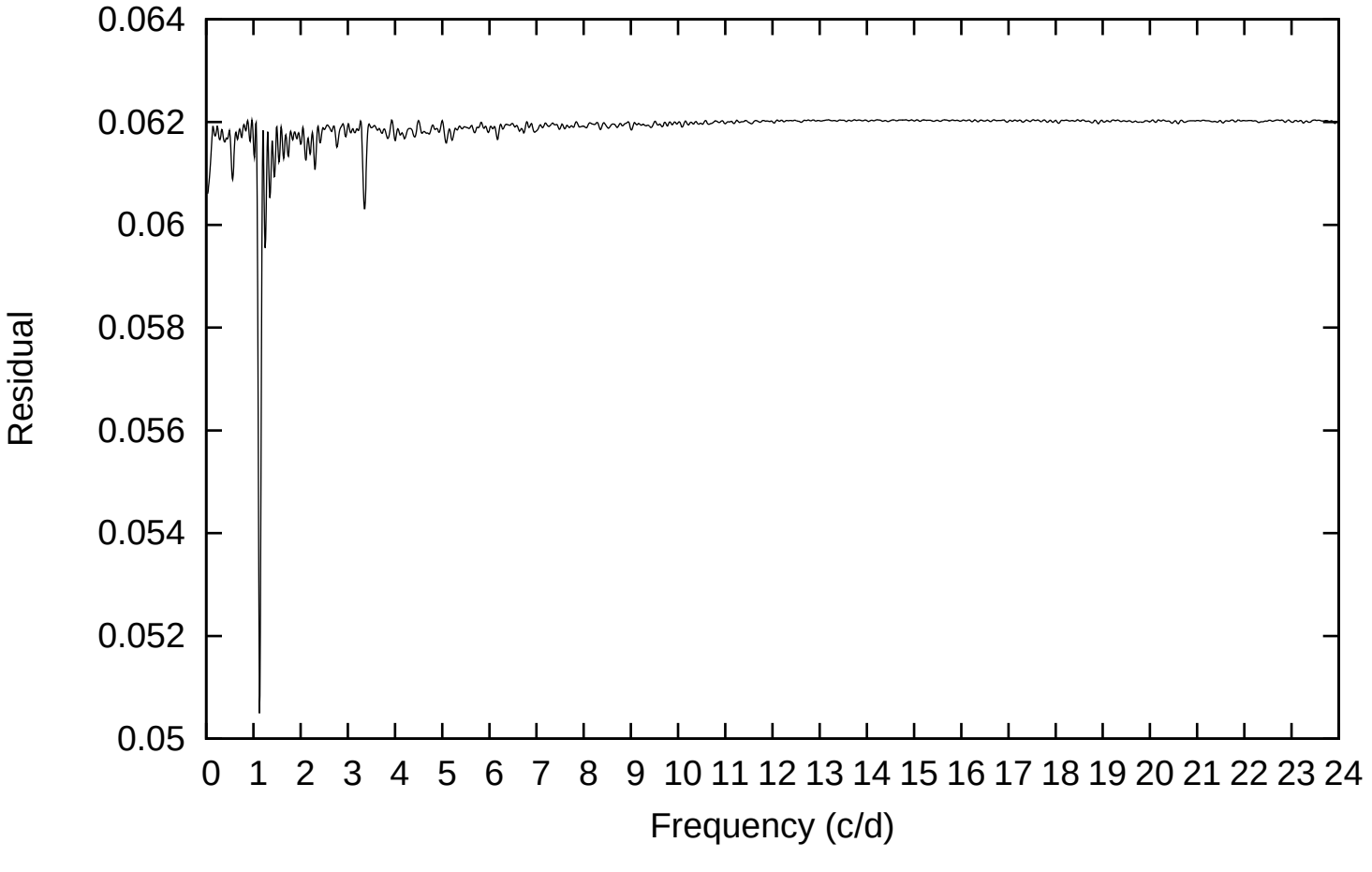

TESS Magnitude
9.6
9.8
10
10.2
10.4
10.6
10.8
11
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 2.56614 hours)


Residual
0.145
0.14
0.135
0.13
0.125
0.12
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

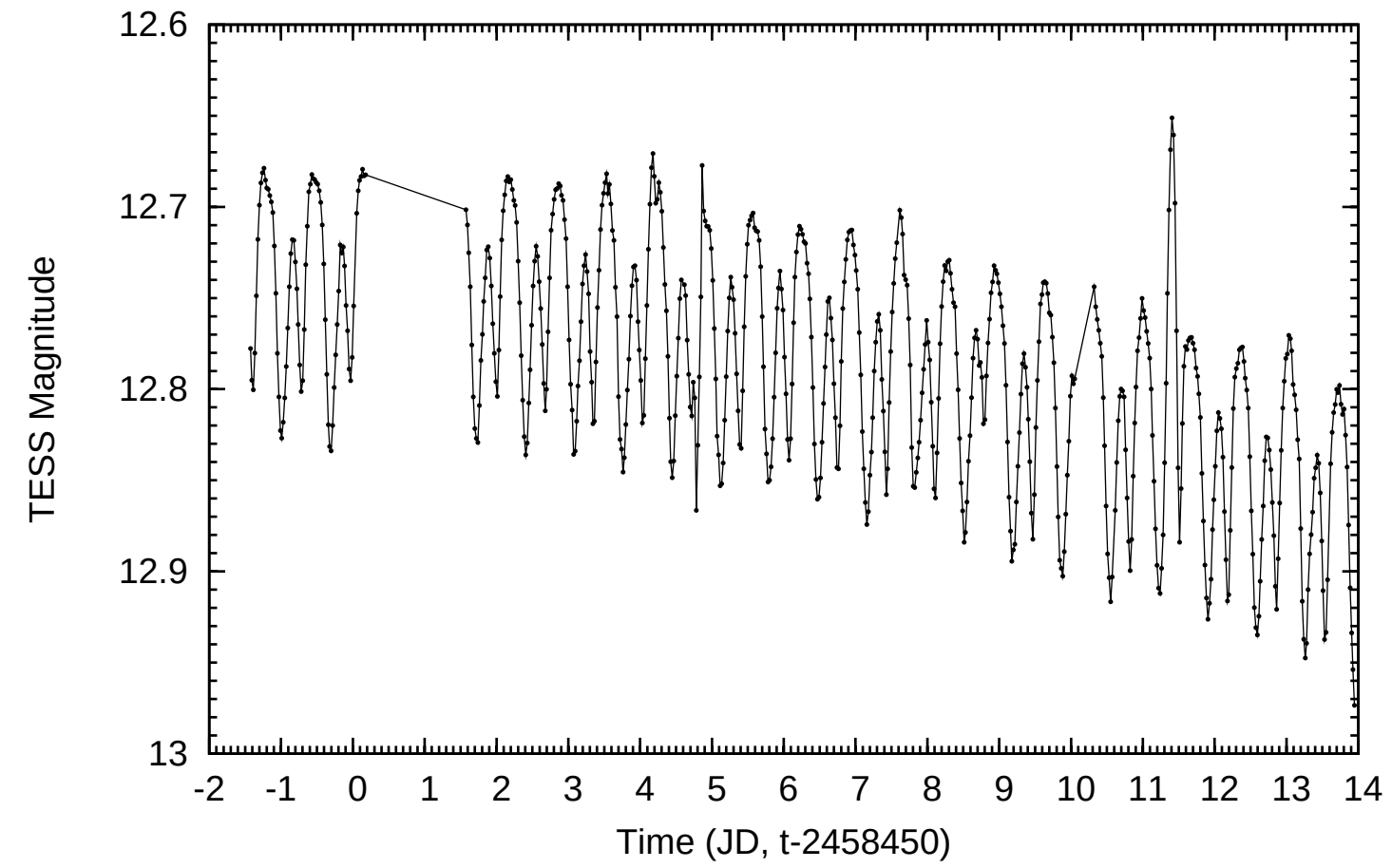
527

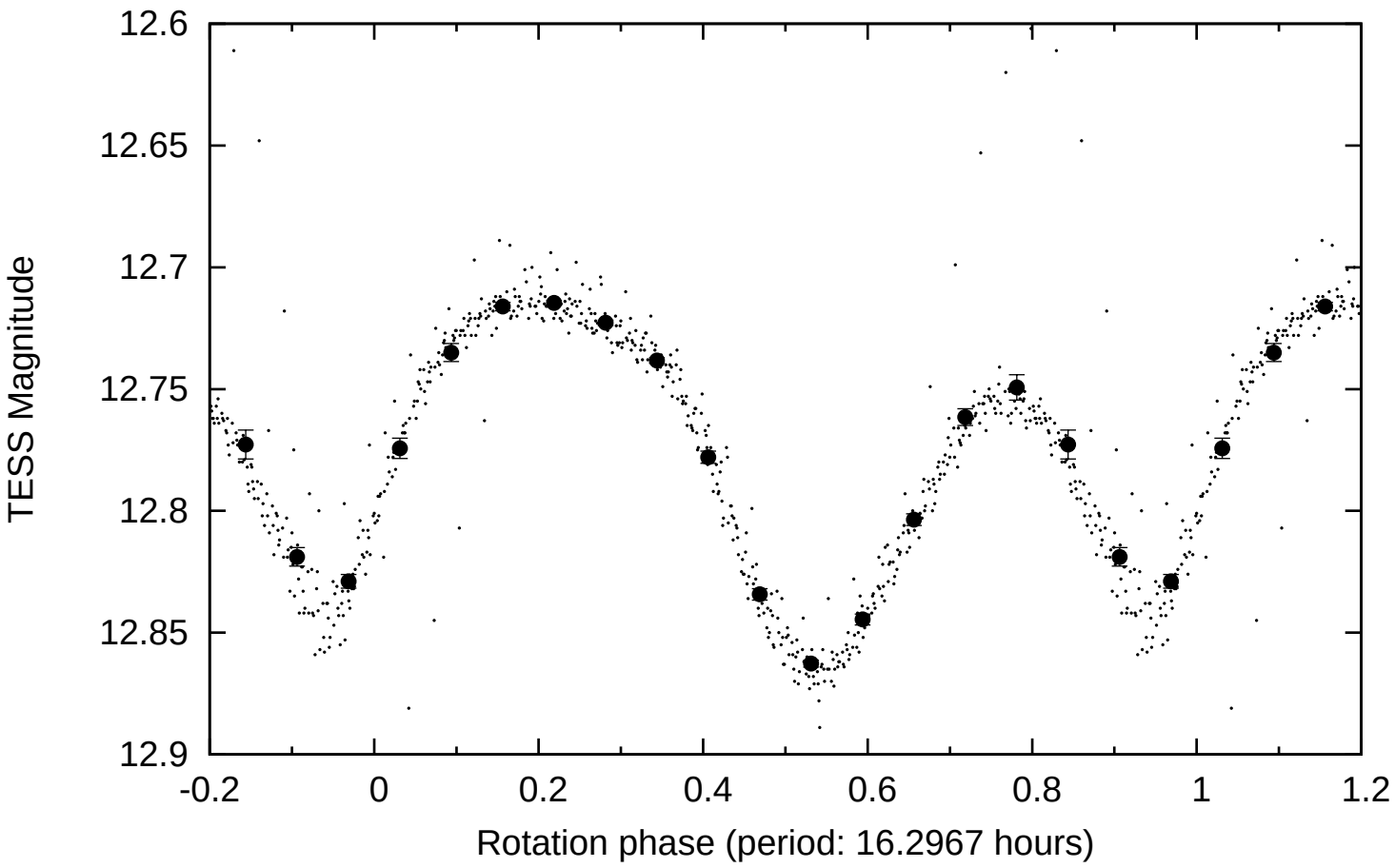

TESS Magnitude
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
14.2
6
7
8
9
10
11
12
13
14
15
16
17
Time (JD, t-2458420)

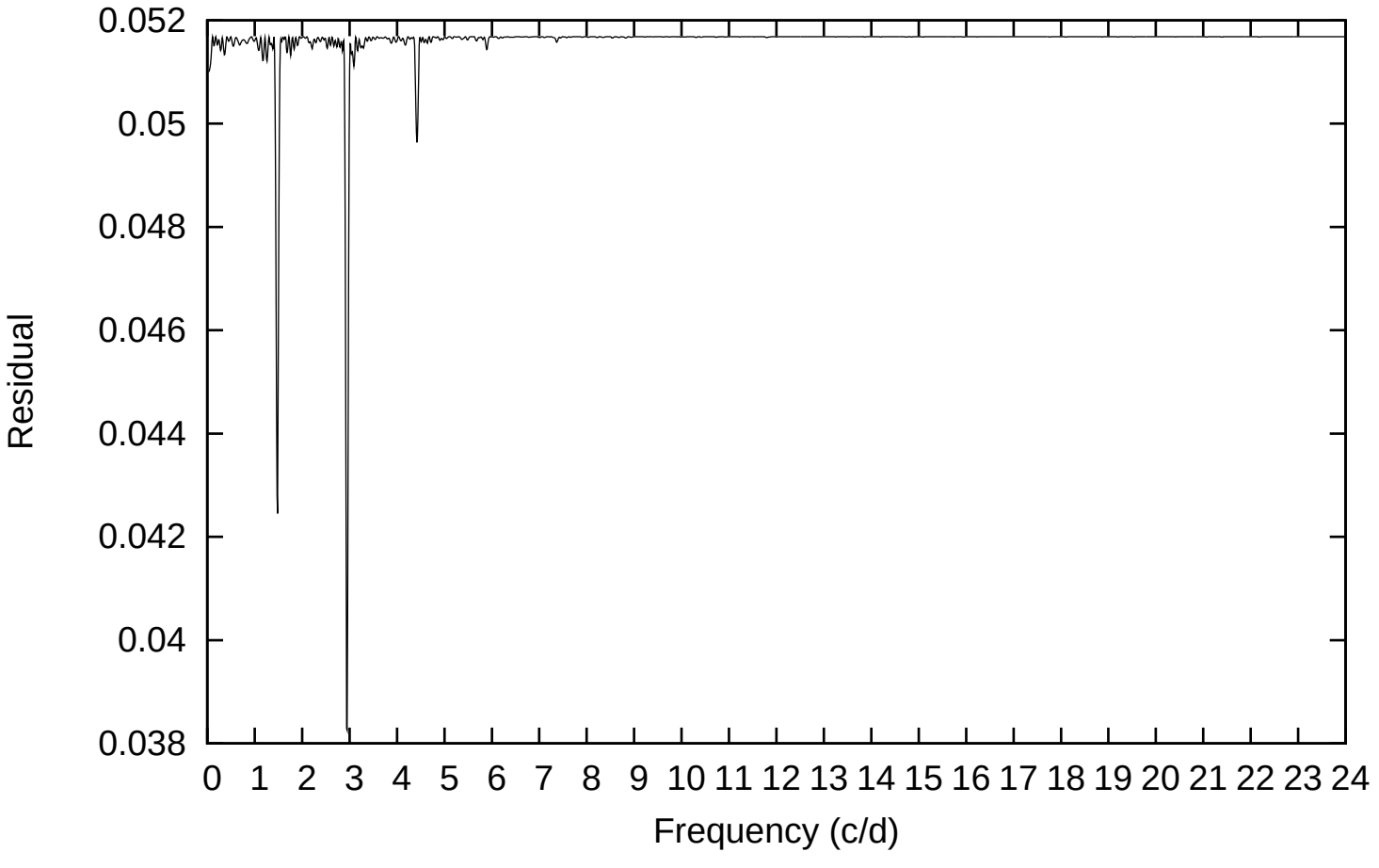

TESS Magnitude
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
14.1
14.2
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 42.3819 hours)


Residual
0.064
0.062
0.06
0.058
0.056
0.054
0.052
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

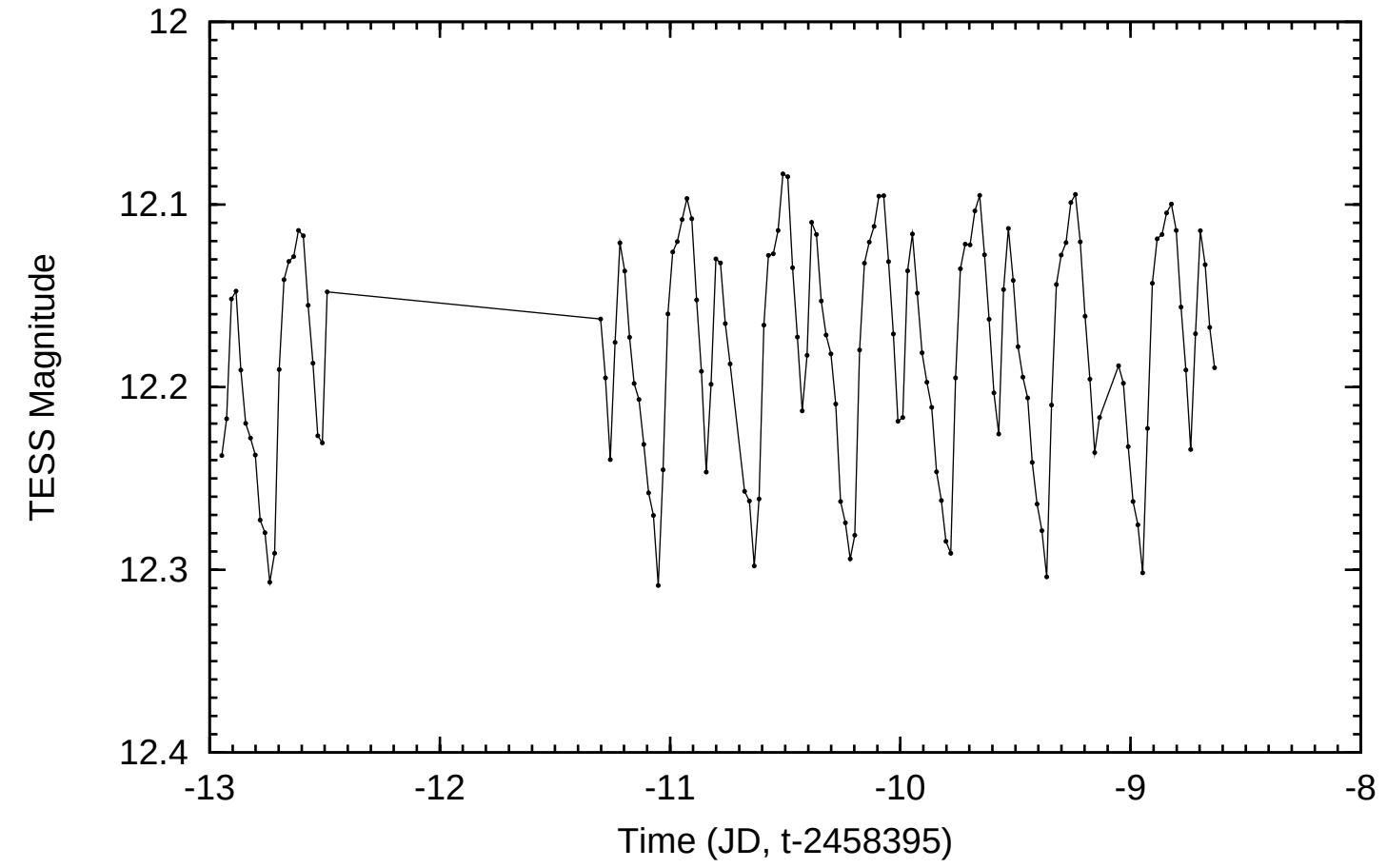
537

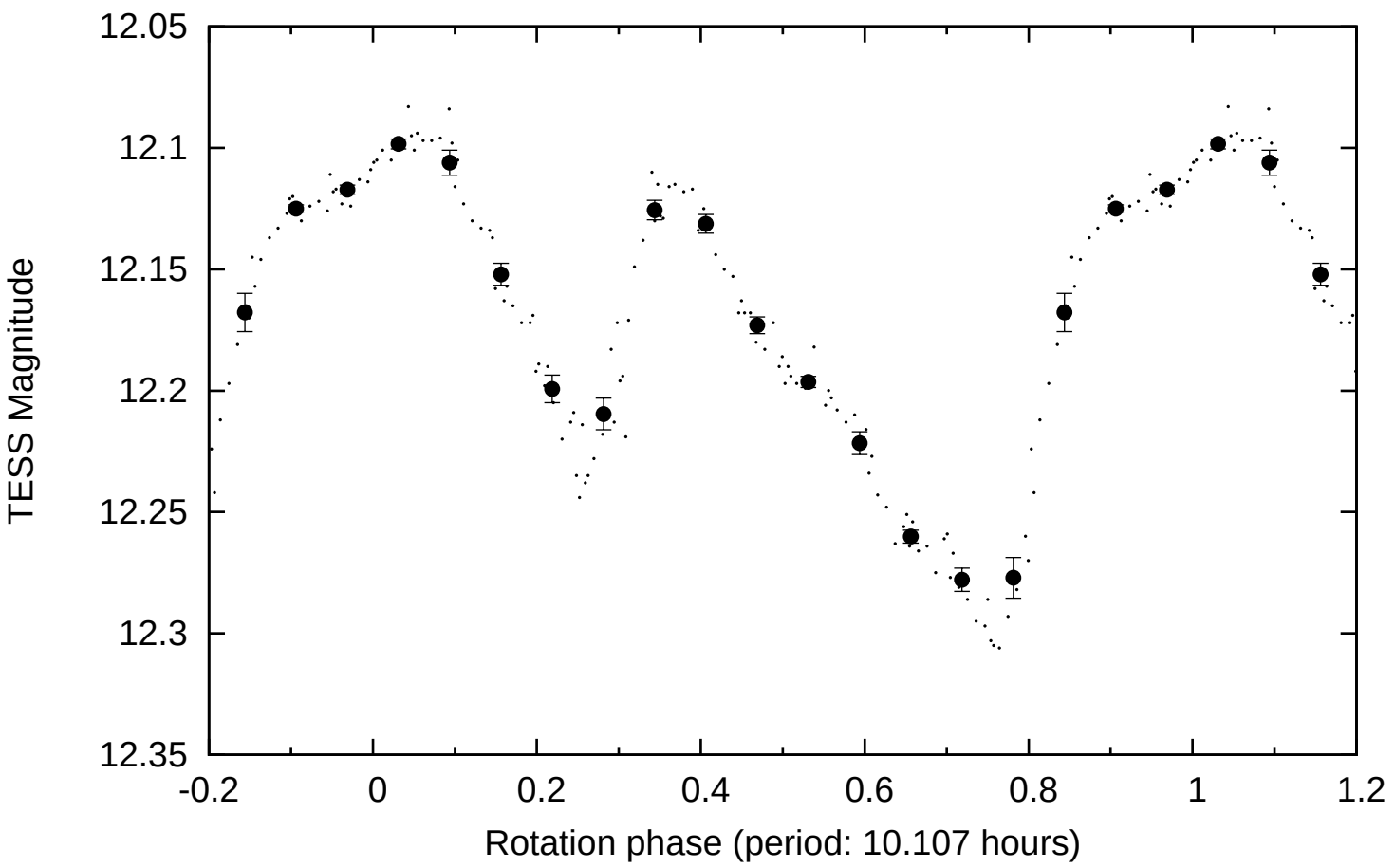

12.6
12.7
12.8
12.9
13
TESS Magnitude
-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458450)

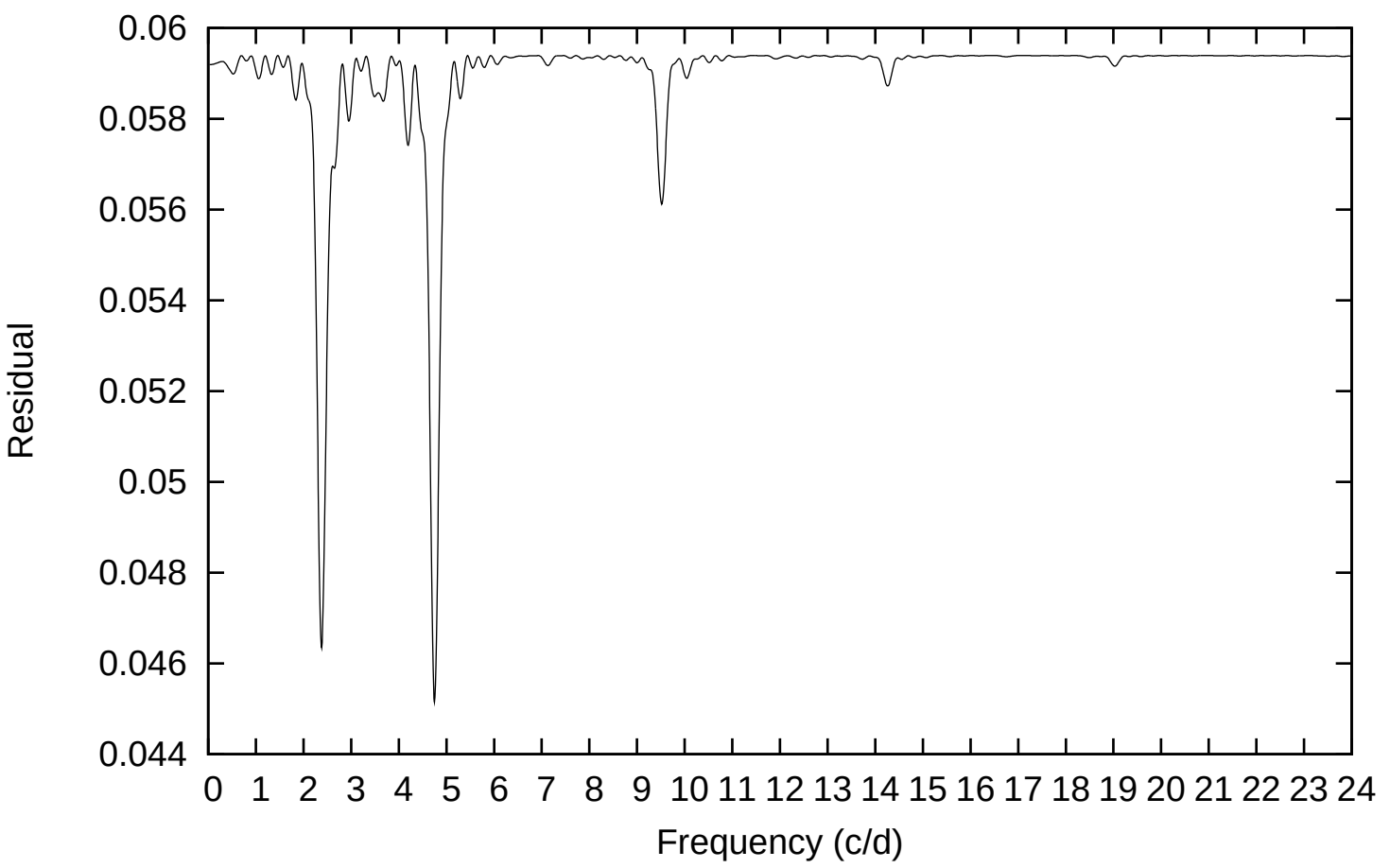

12.6
12.65
12.7
12.75
12.8
12.85
12.9
TESS Magnitude
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 16.2967 hours)


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 21 22 23 24
Frequency (c/d)

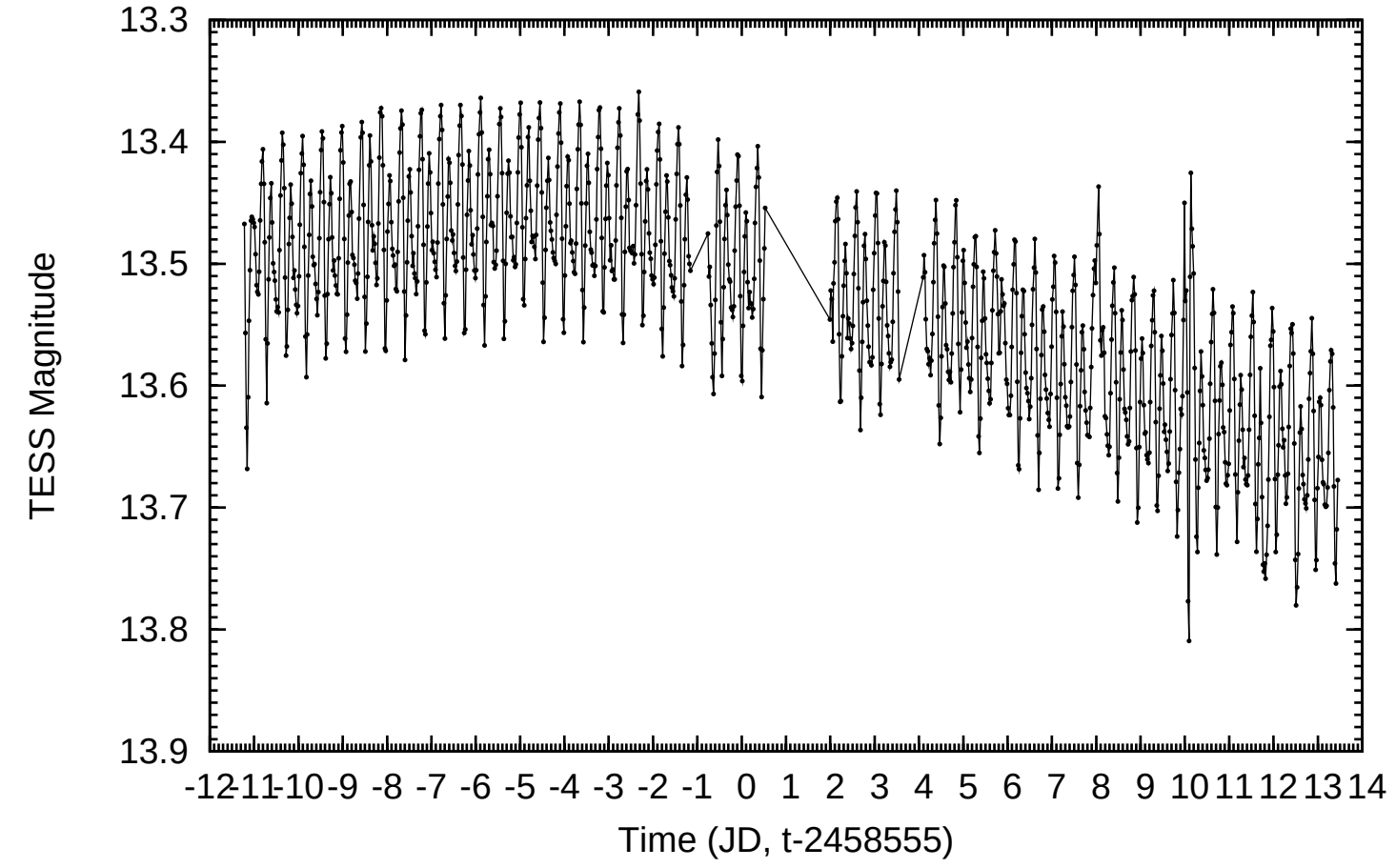
542

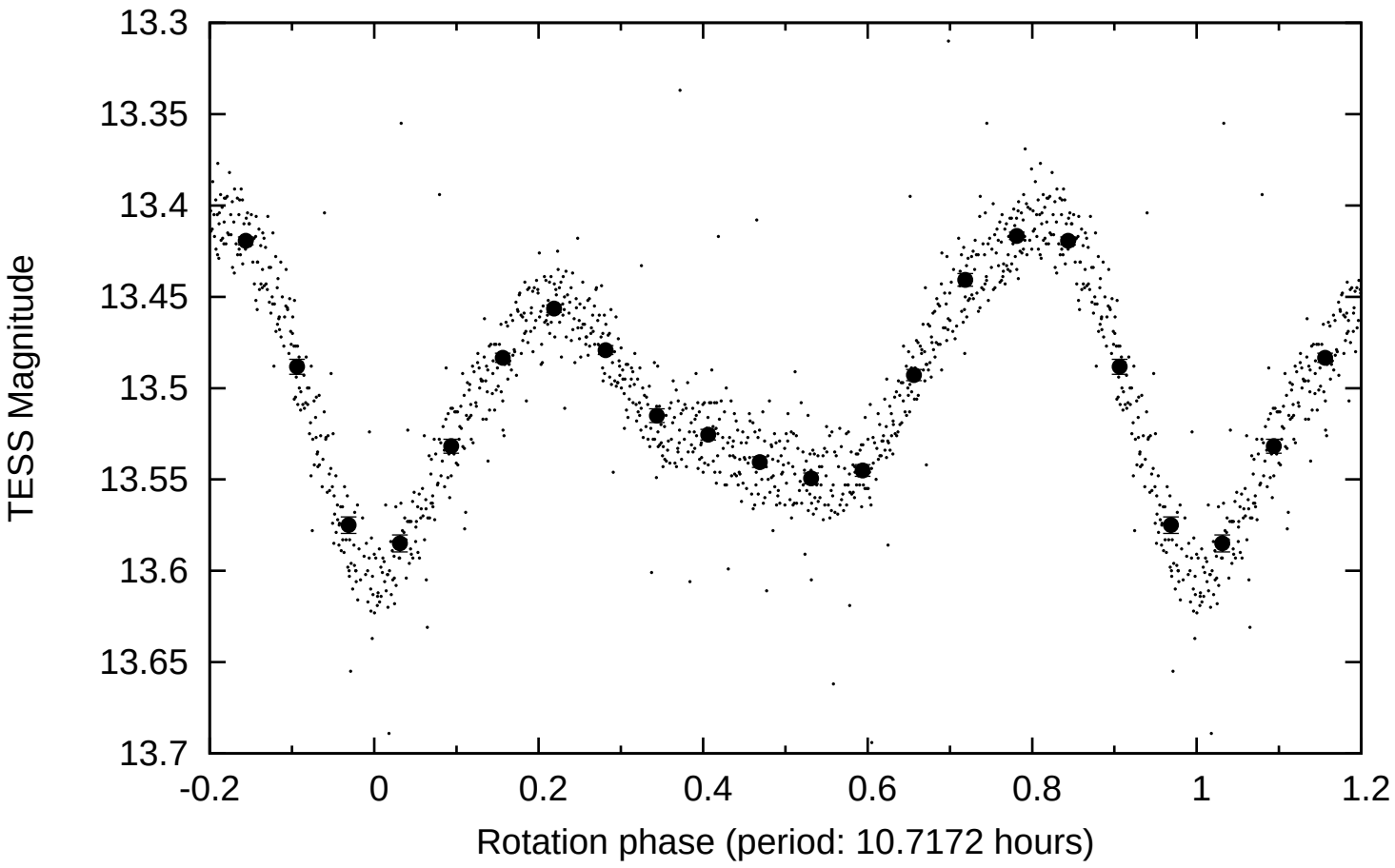

12
12.1
12.2
12.3
12.4
TESS Magnitude
-13
-12
-11
-10
-9
-8
Time (JD, t-2458395)

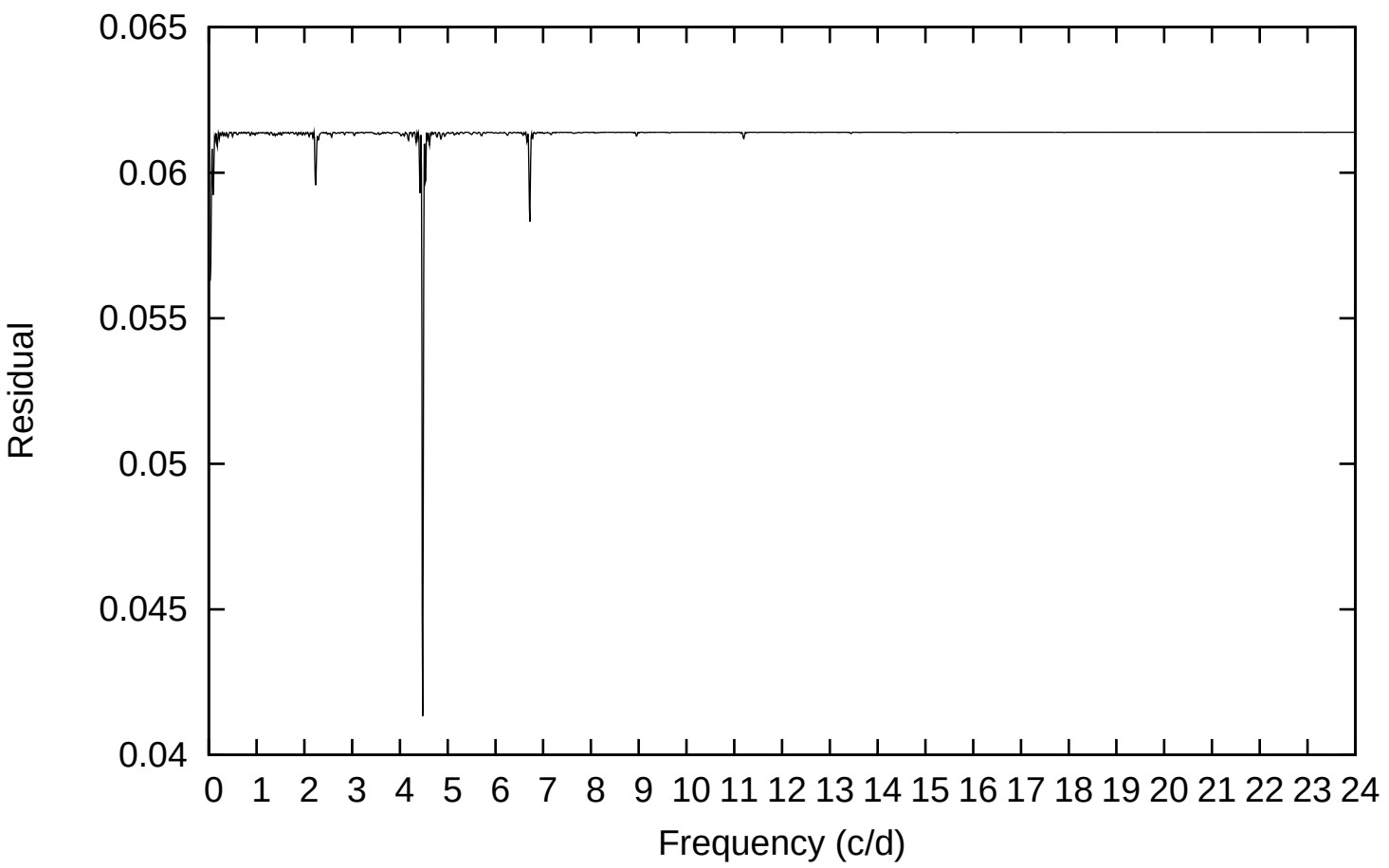

12.05
12.1
12.15
12.2
12.25
12.3
12.35
TESS Magnitude
-0.2
0
0.2
0.4
0.6
0.8
1
1.2
Rotation phase (period: 10.107 hours)


0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
Residual
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

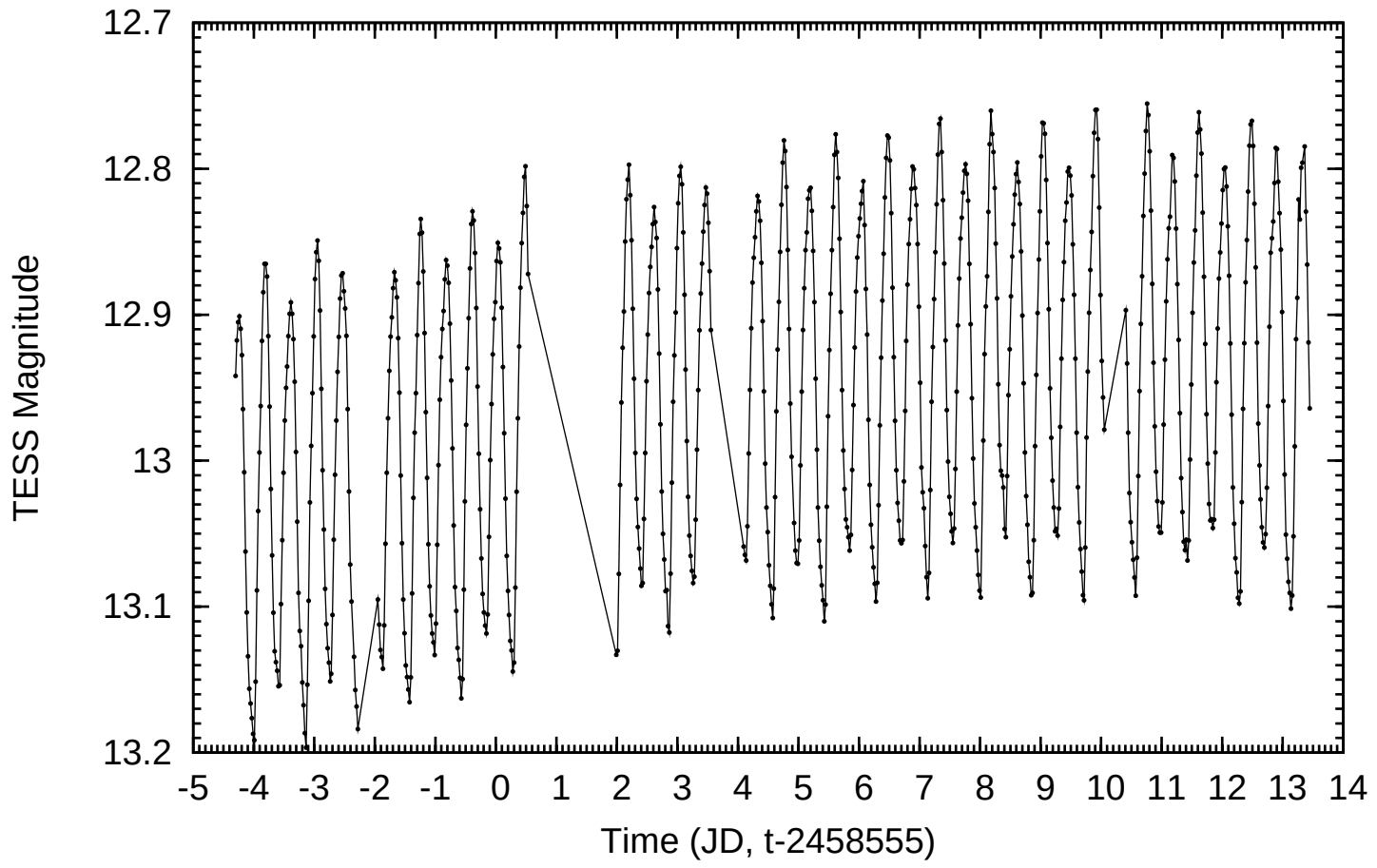
543

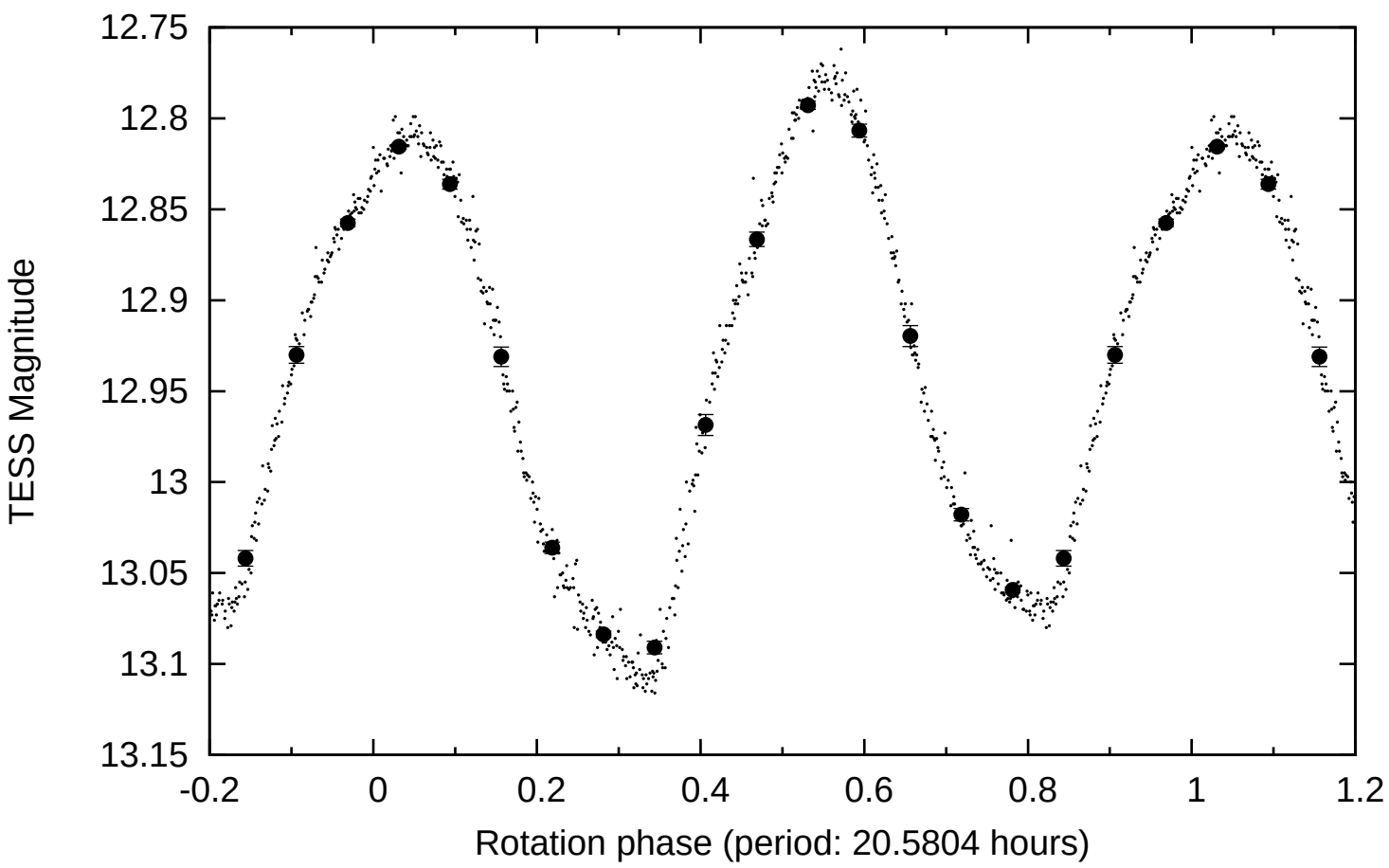

TESS Magnitude
13.3
13.4
13.5
13.6
13.7
13.8
13.9
-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

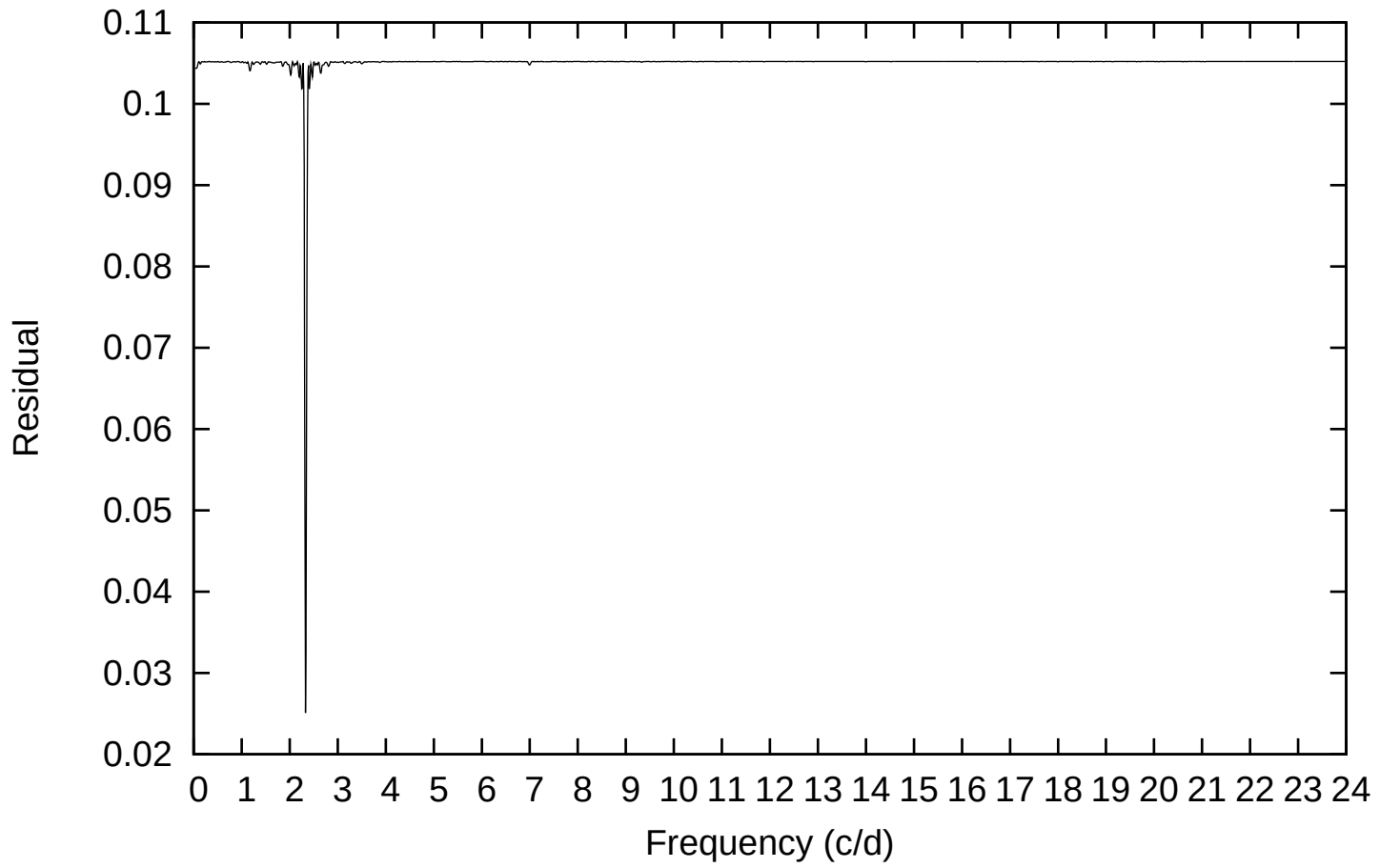

TESS Magnitude
13.3
13.35
13.4
13.45
13.5
13.55
13.6
13.65
13.7
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 10.7172 hours)


Residual
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 21 22 23 24
Frequency (c/d)

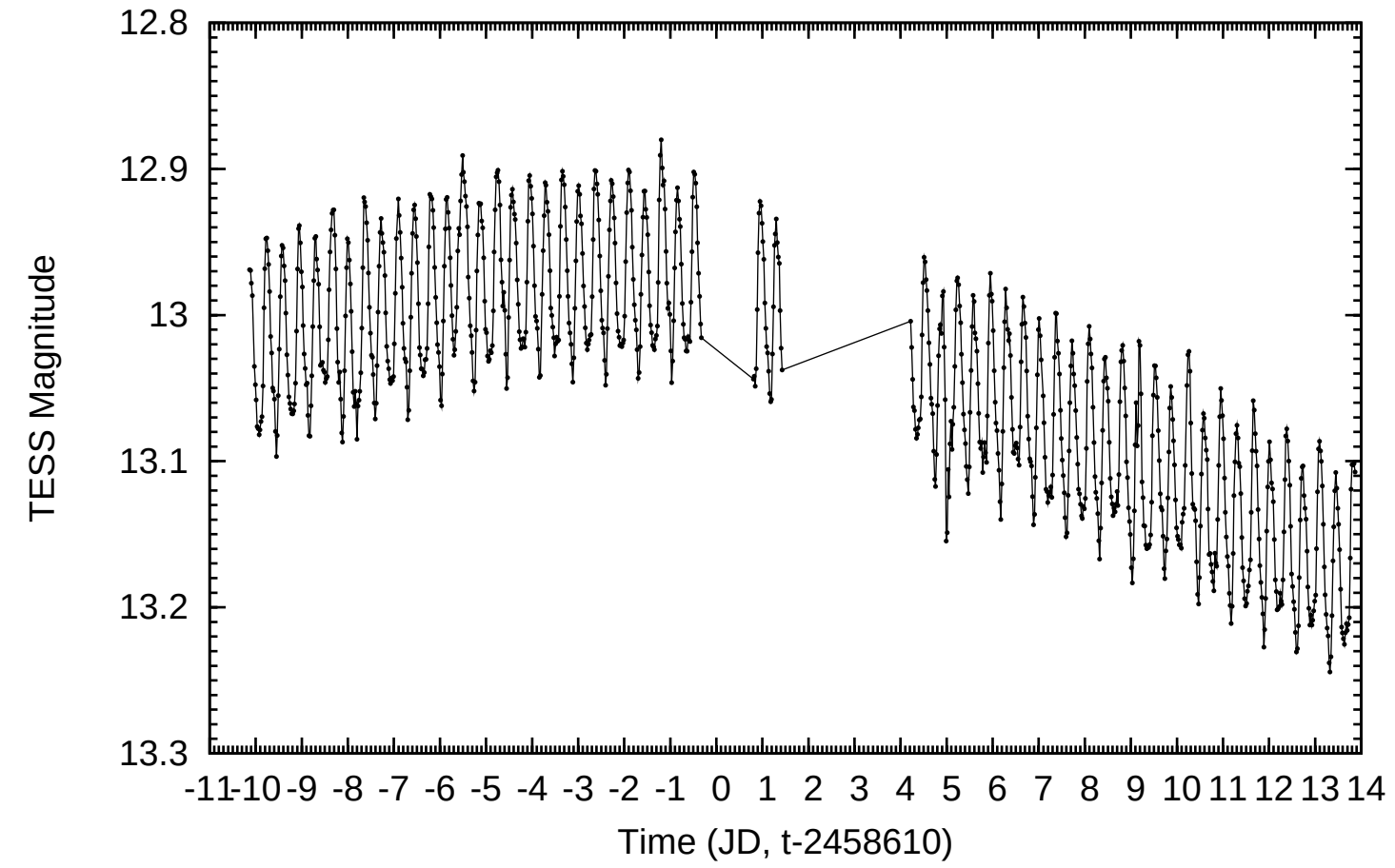
550

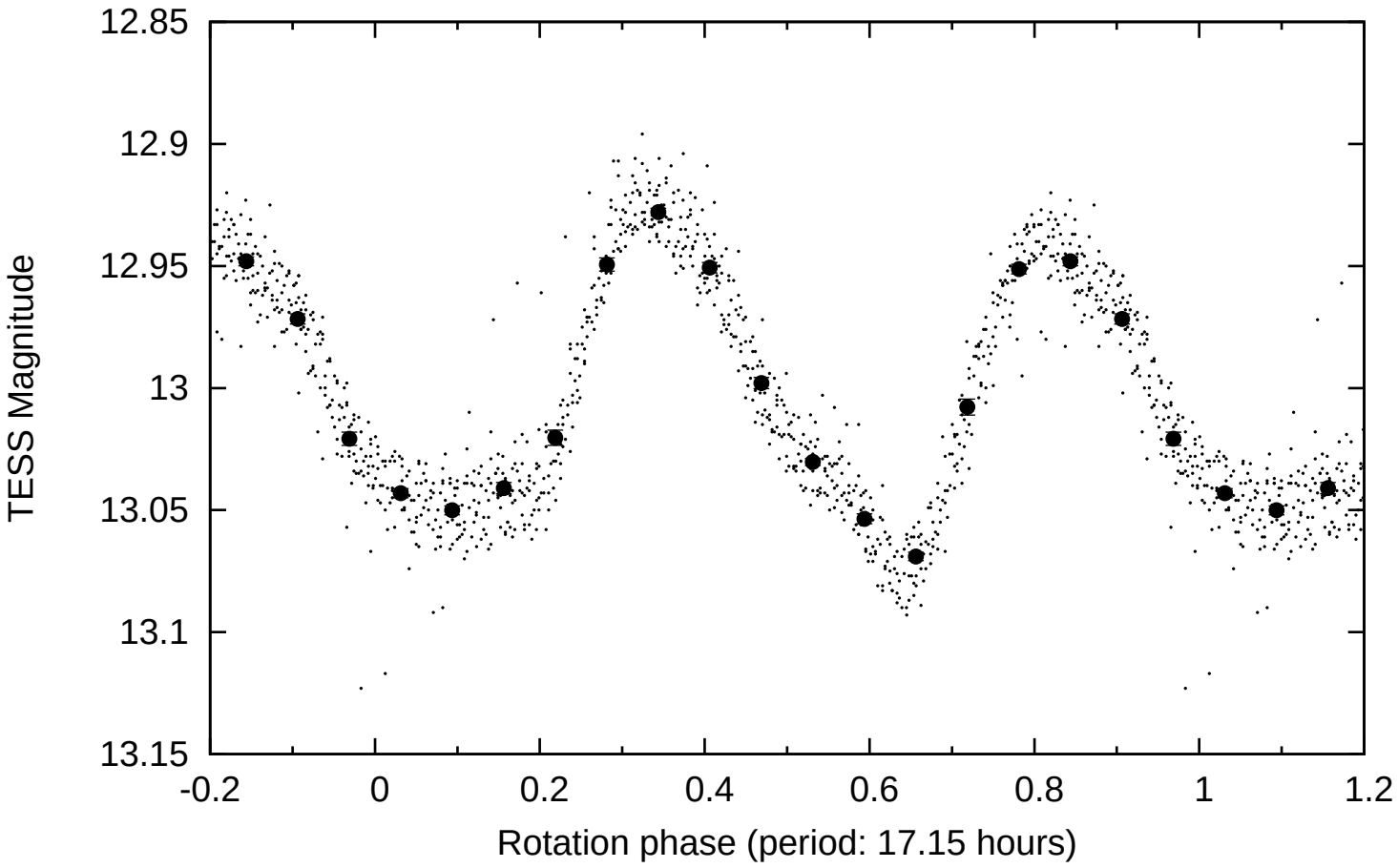

TESS Magnitude
12.7
12.8
12.9
13
13.1
13.2
-5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458555)

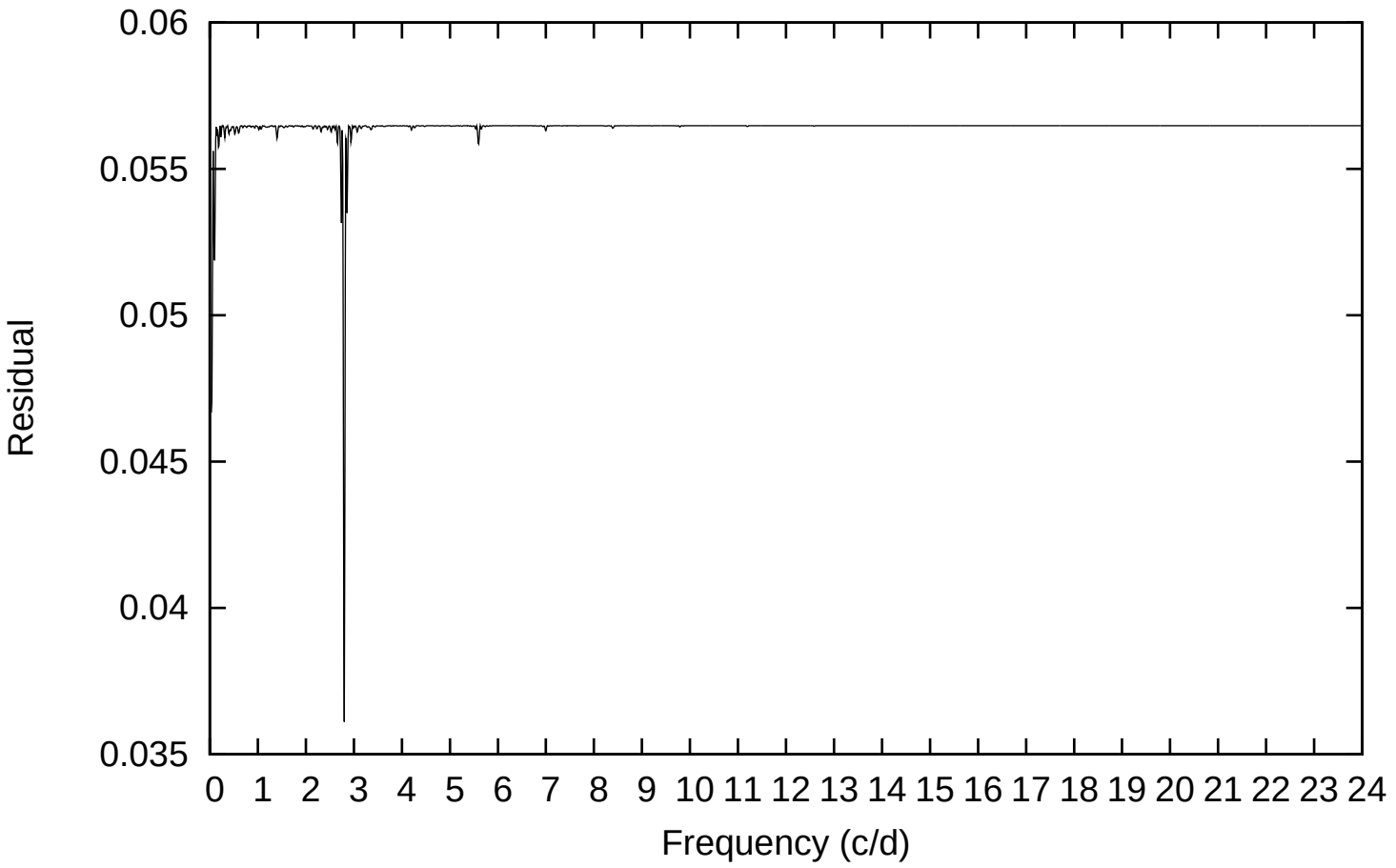

TESS Magnitude
12.75
12.8
12.85
12.9
12.95
13
13.05
13.1
13.15
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 20.5804 hours)


Residual
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

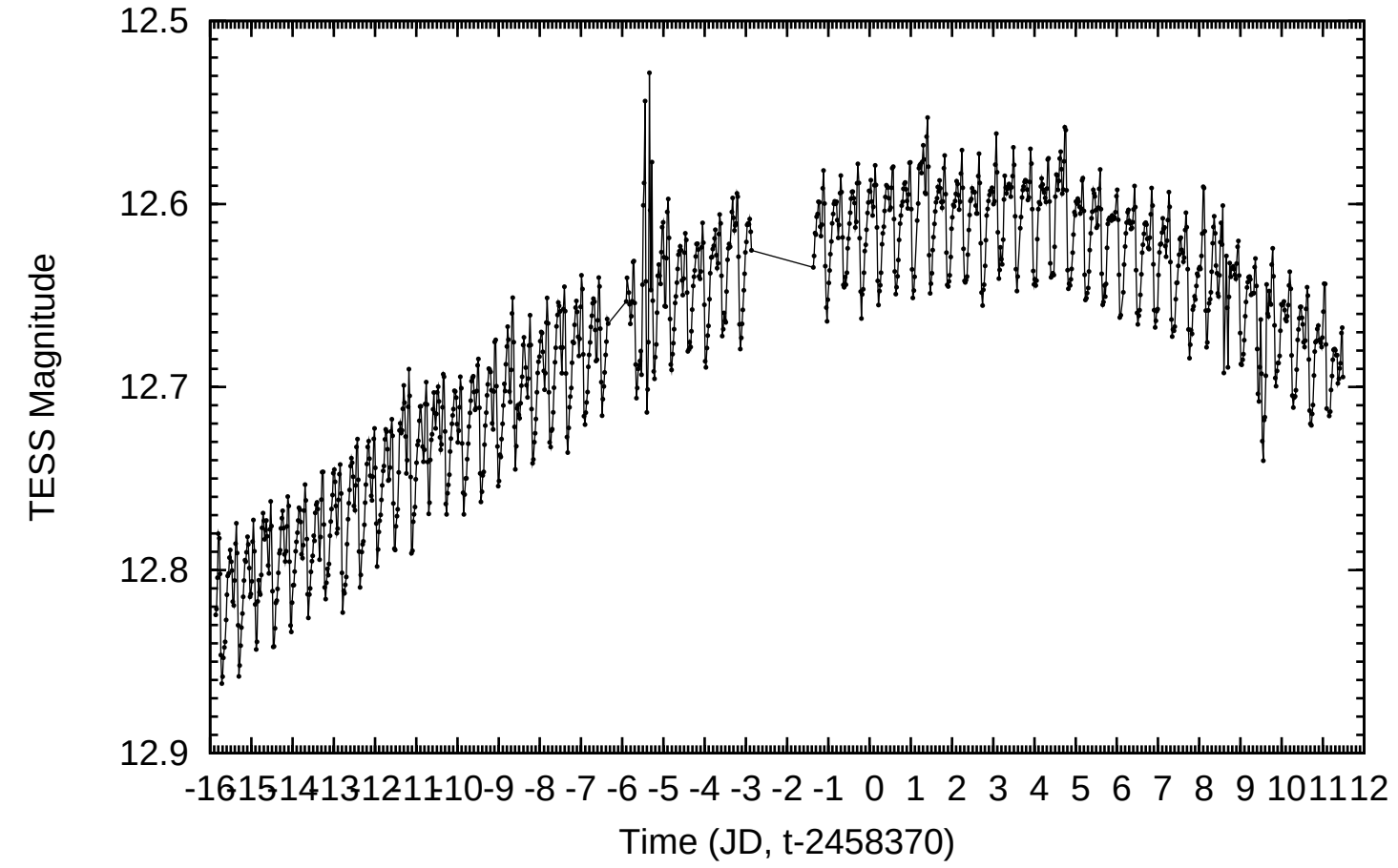
552

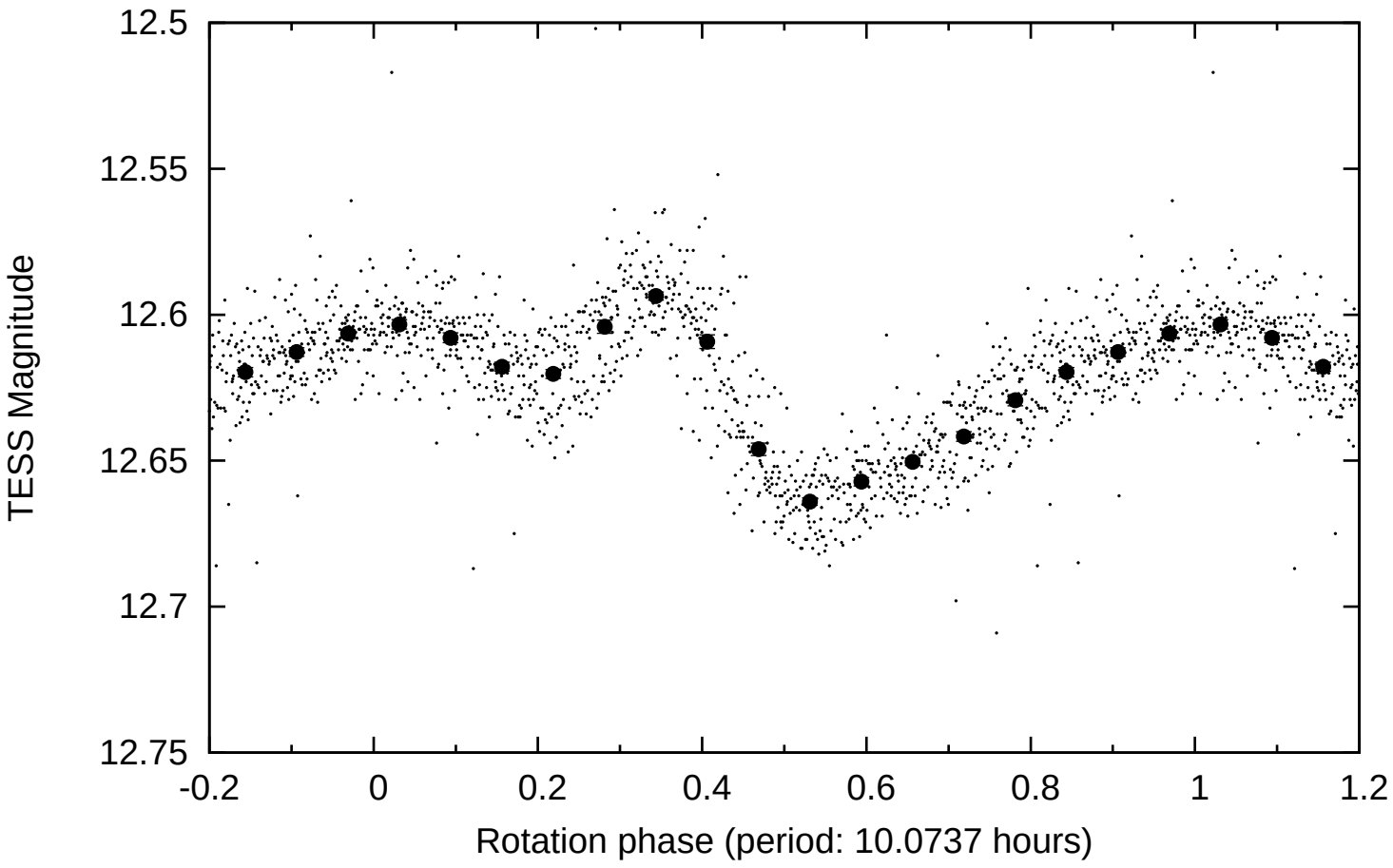

TESS Magnitude
12.8
12.9
13
13.1
13.2
13.3
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
Time (JD, t-2458610)

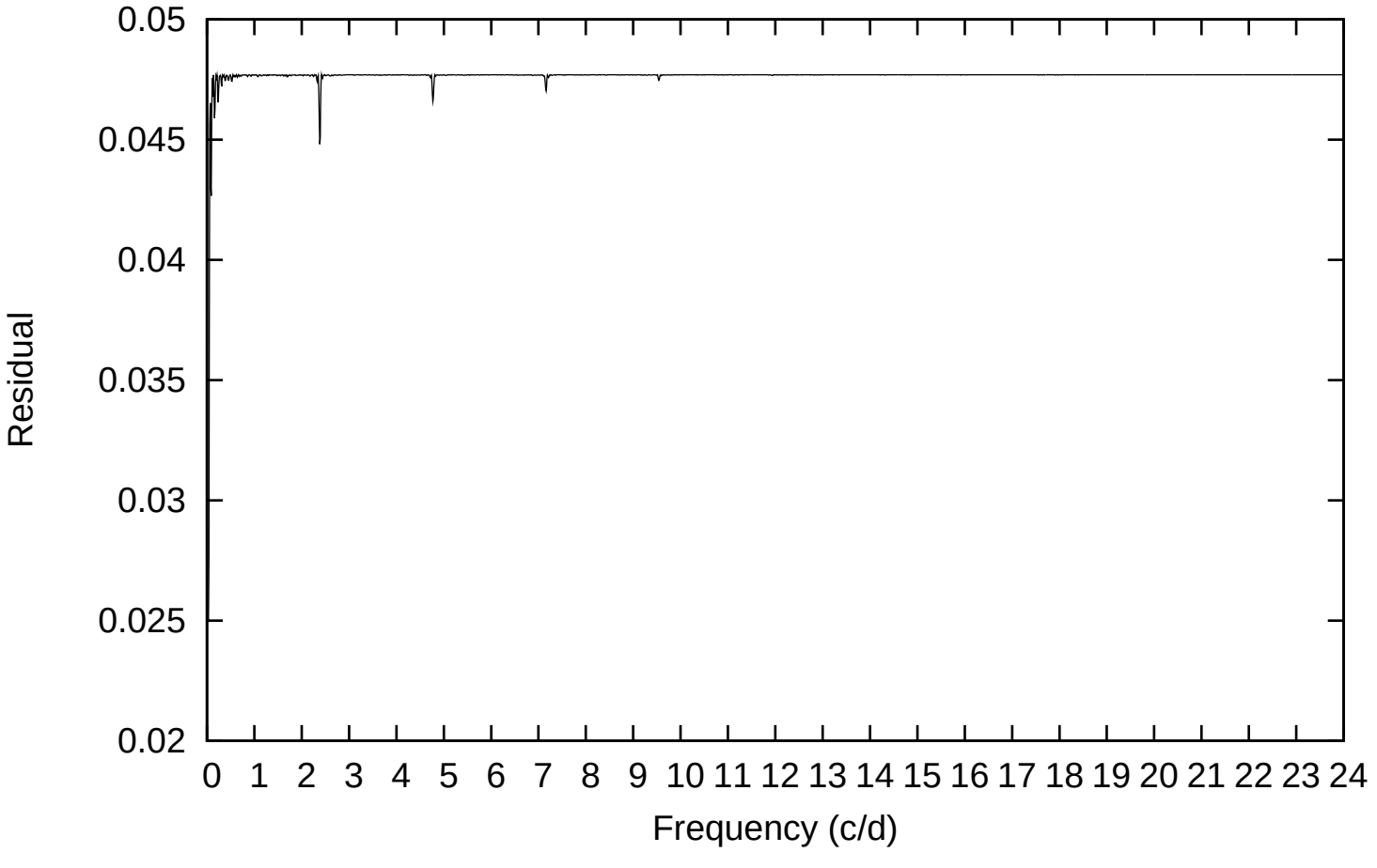

TESS Magnitude
12.85
12.9
12.95
13
13.05
13.1
13.15
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 17.15 hours)


Residual
0.06
0.055
0.05
0.045
0.04
0.035
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

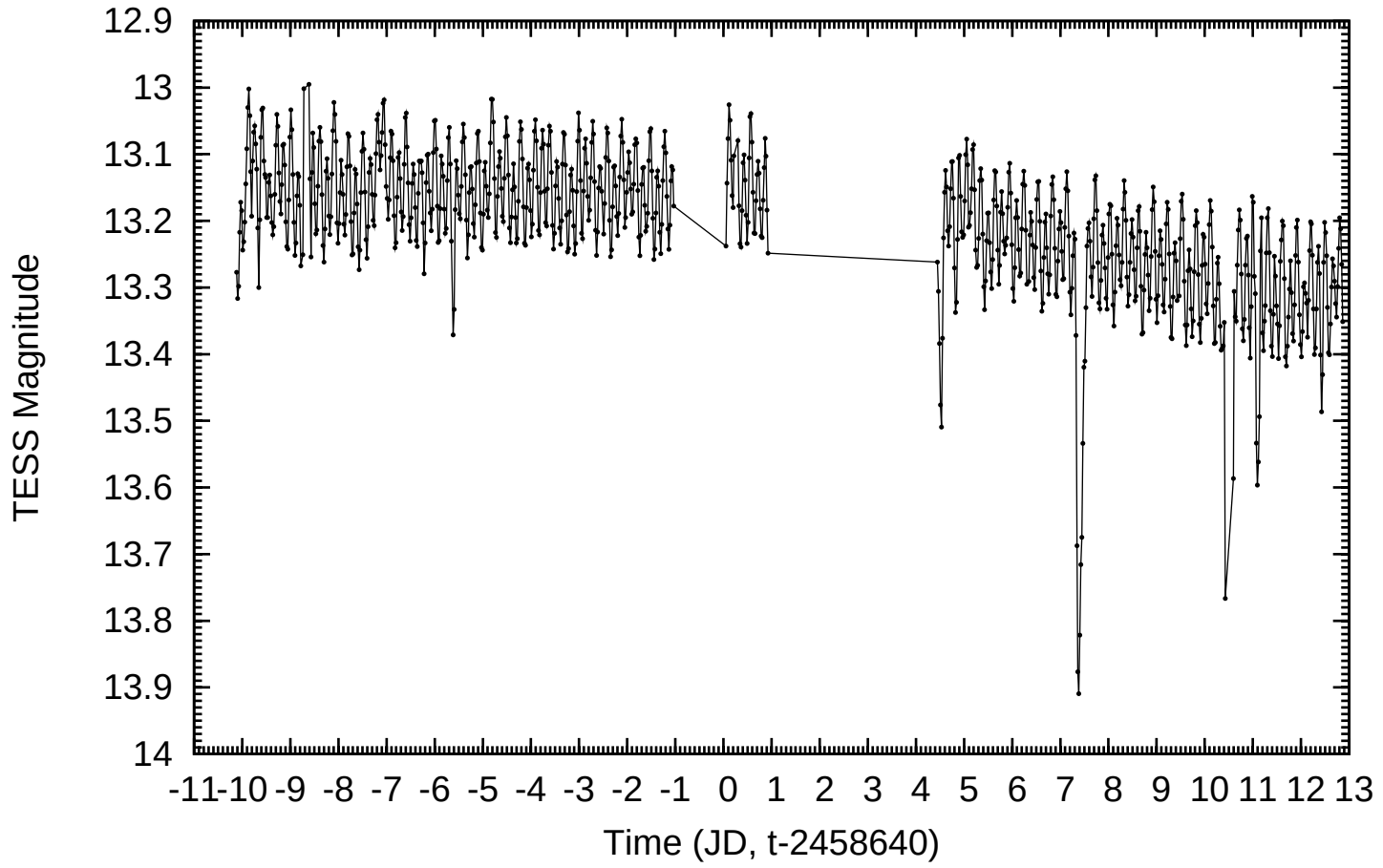
559

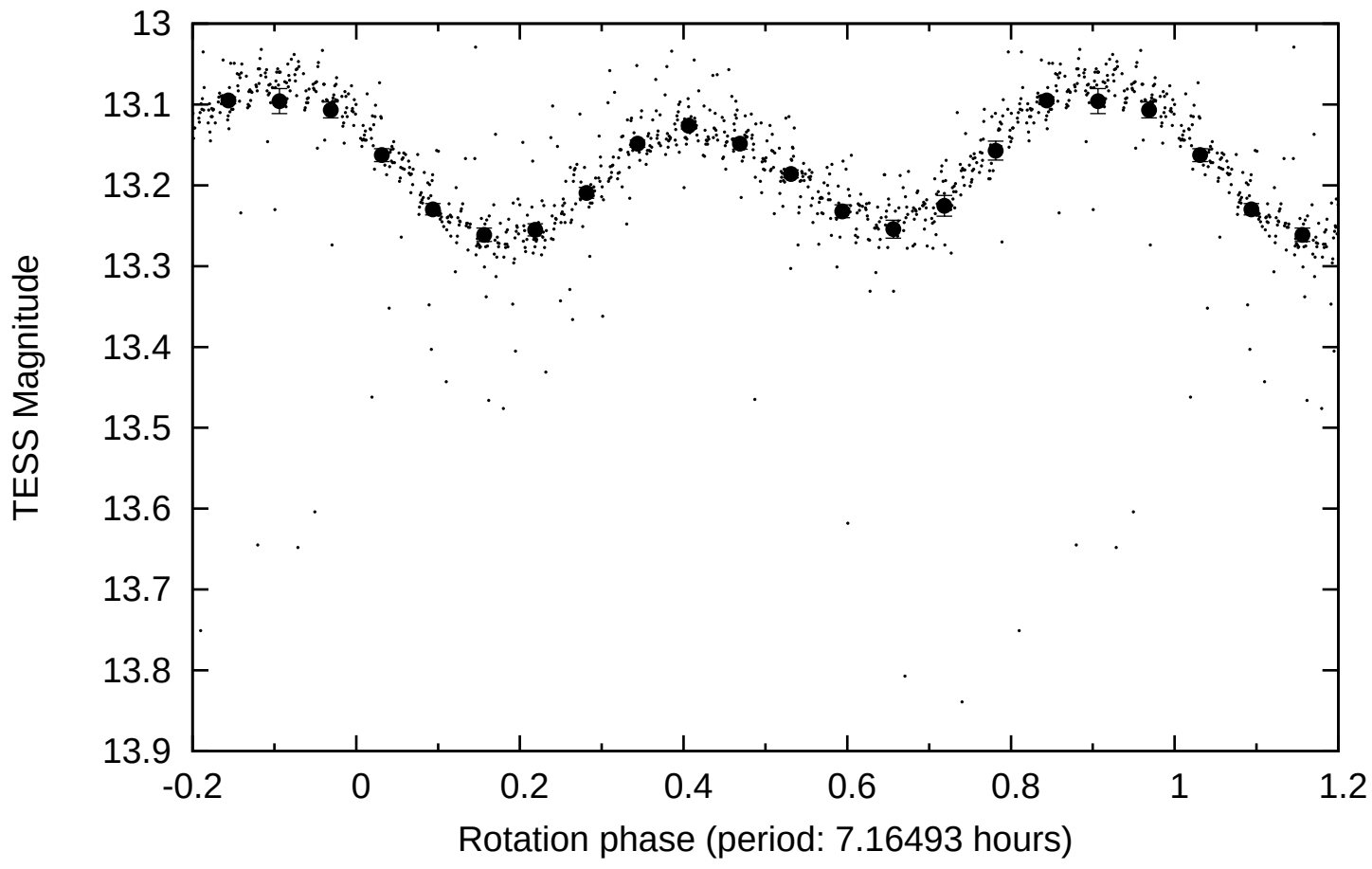

TESS Magnitude
12.5
12.6
12.7
12.8
12.9
-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12
Time (JD, t-2458370)

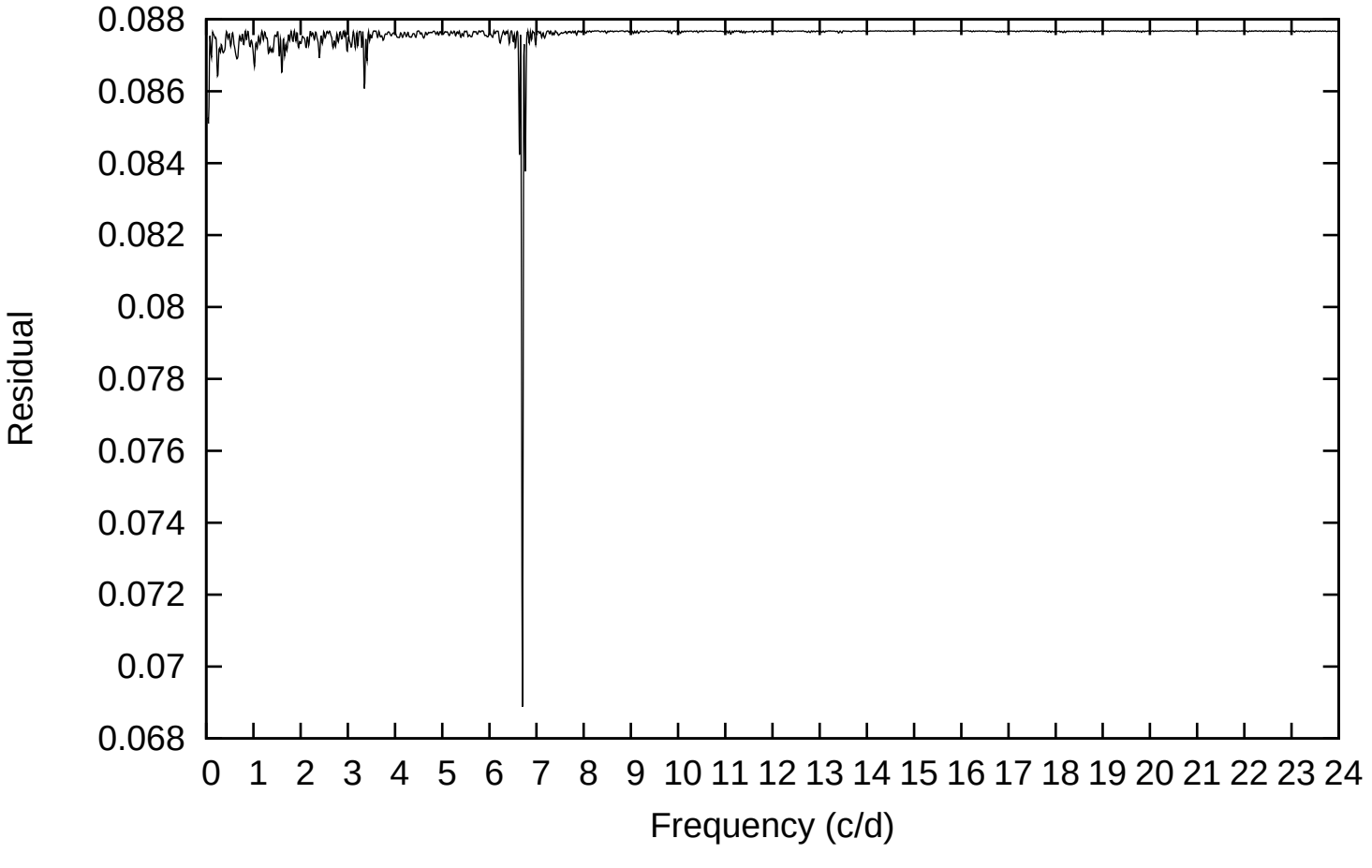

TESS Magnitude
12.5
12.55
12.6
12.65
12.7
12.75
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 10.0737 hours)


Residual
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

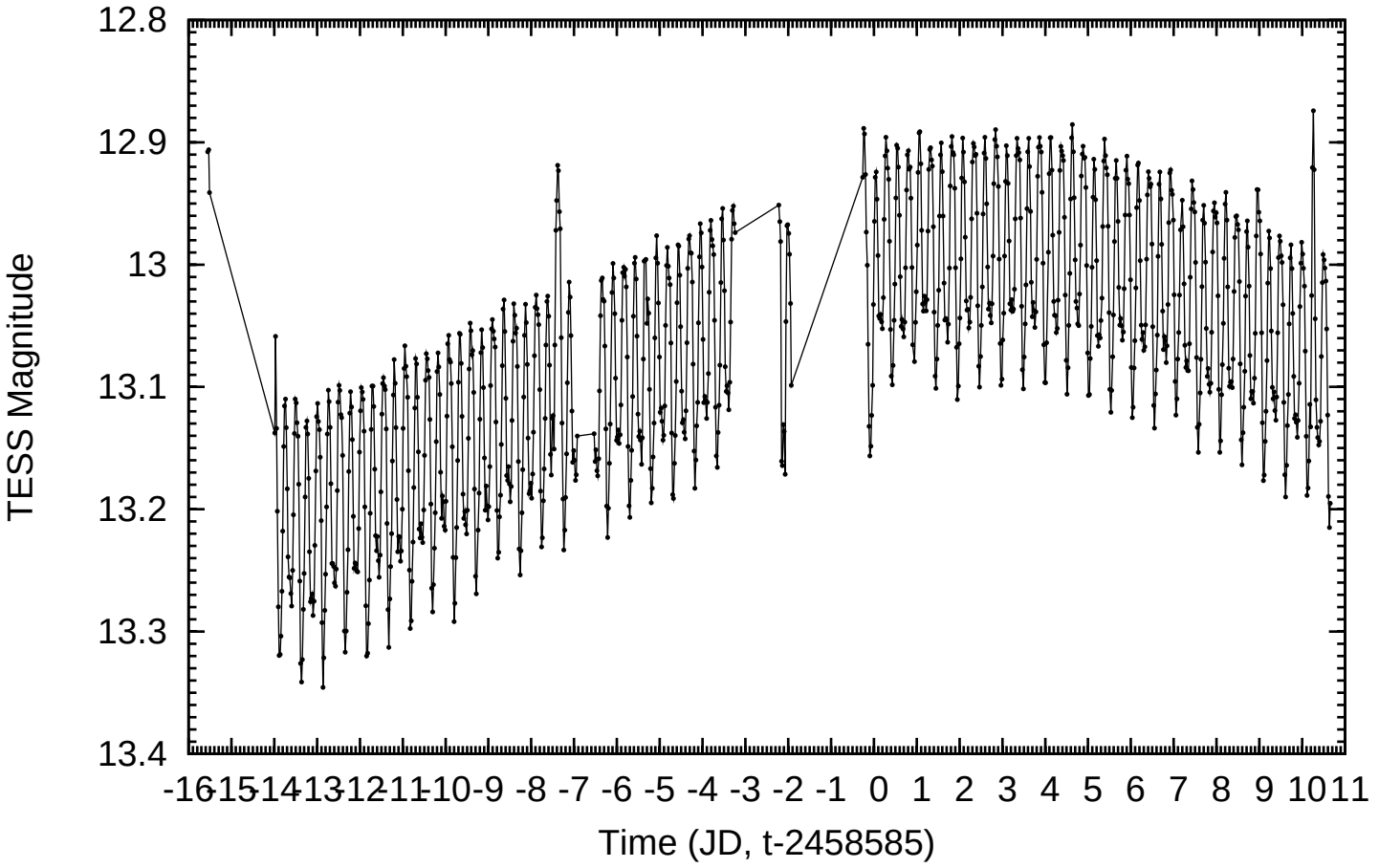
573

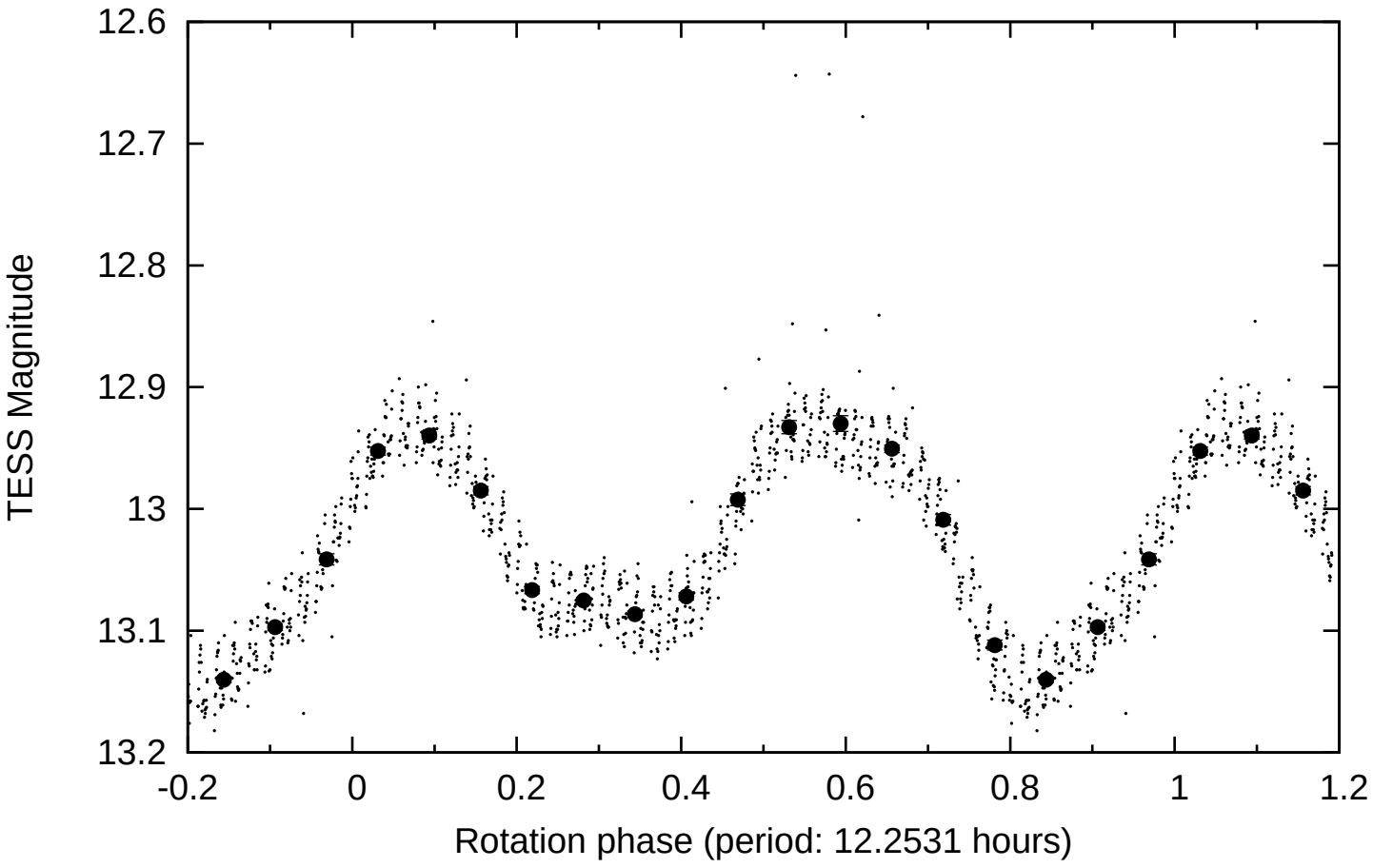

TESS Magnitude
12.9
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14
-11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
Time (JD, t-2458640)

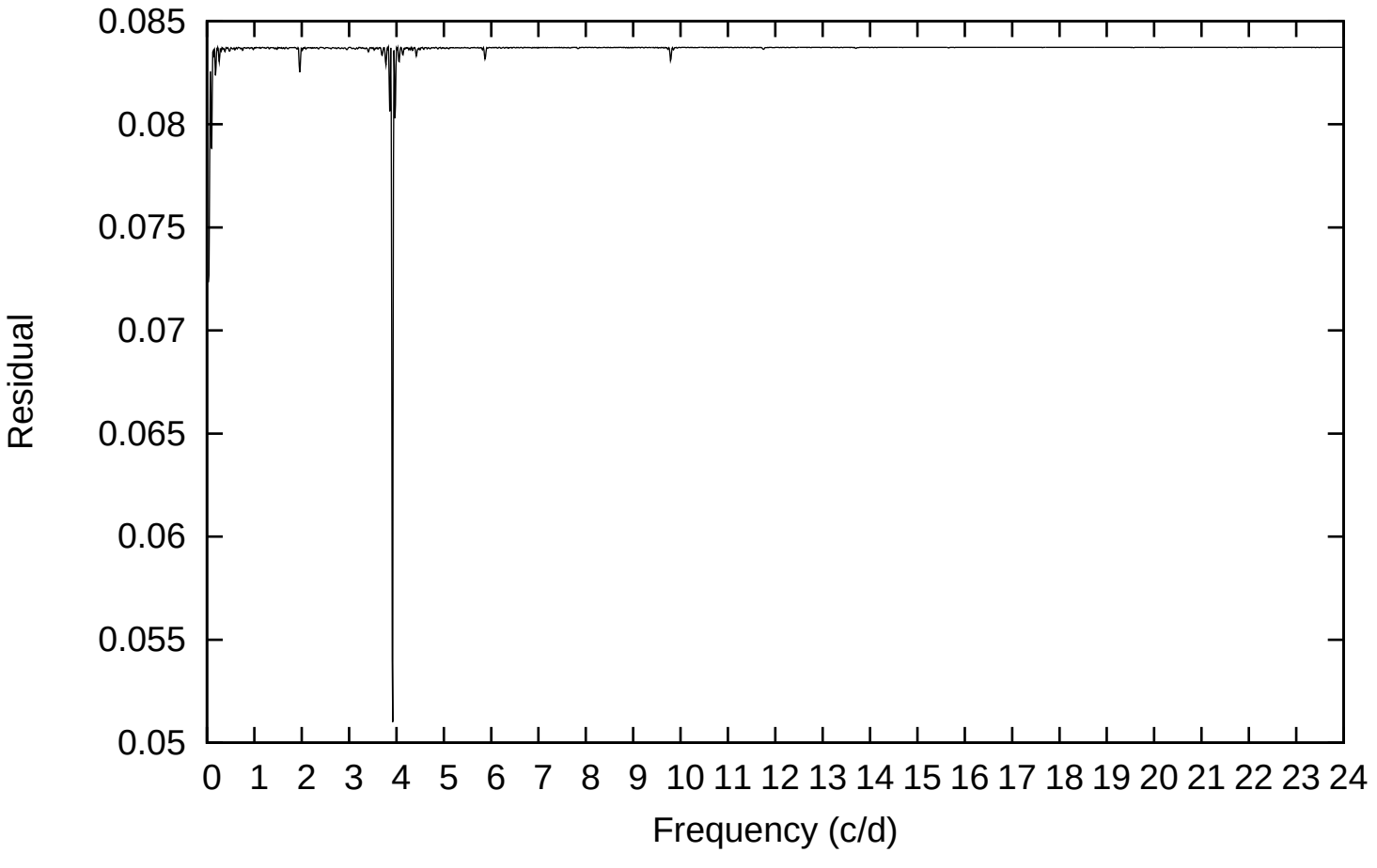

TESS Magnitude
13
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 7.16493 hours)


Residual
0.088
0.086
0.084
0.082
0.08
0.078
0.076
0.074
0.072
0.07
0.068
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)

577


TESS Magnitude
12.8
12.9
13
13.1
13.2
13.3
13.4
-16 -15 -14 -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
Time (JD, t-2458585)


TESS Magnitude
12.6
12.7
12.8
12.9
13
13.1
13.2
-0.2 0 0.2 0.4 0.6 0.8 1 1.2
Rotation phase (period: 12.2531 hours)


Residual
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Frequency (c/d)