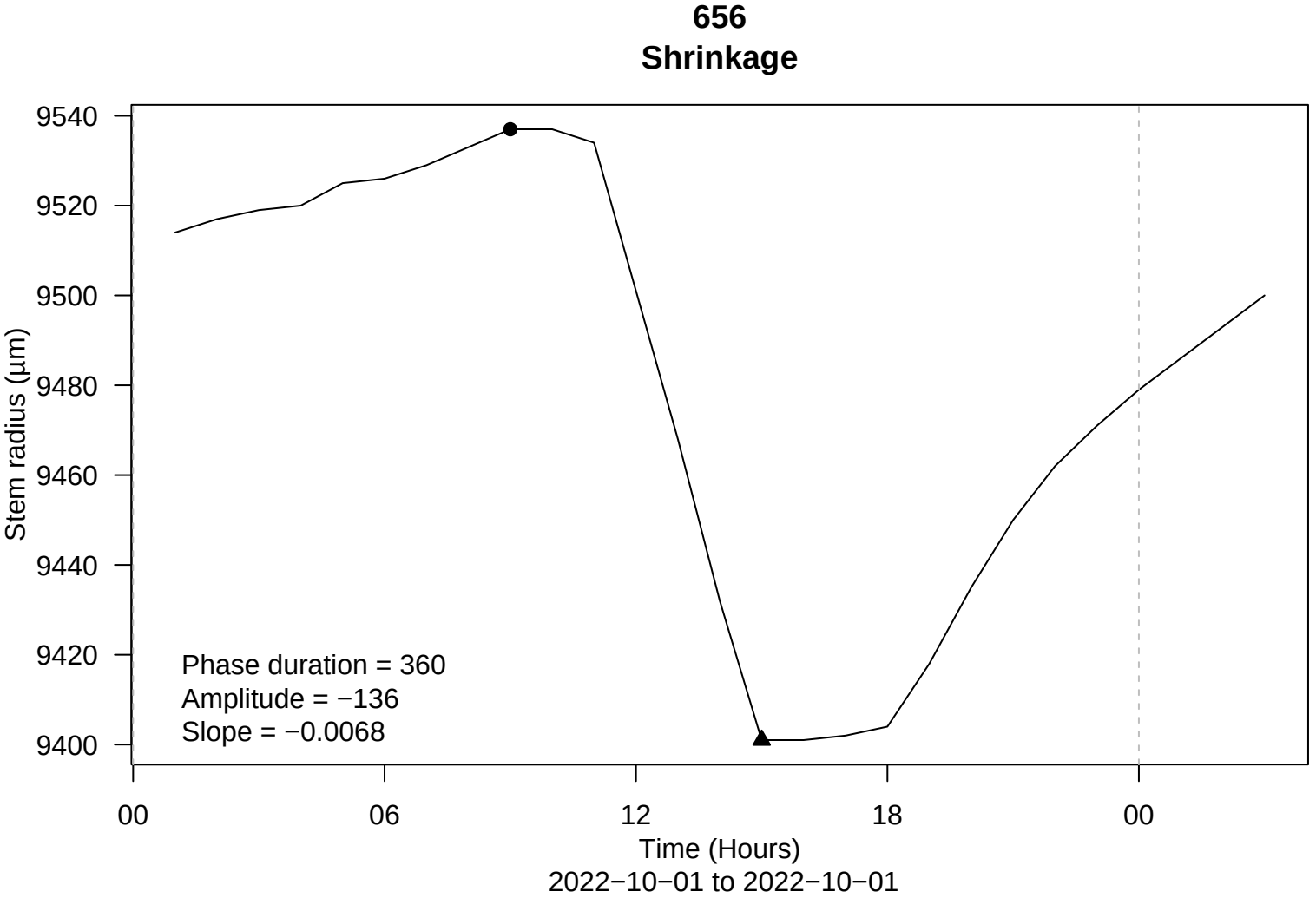
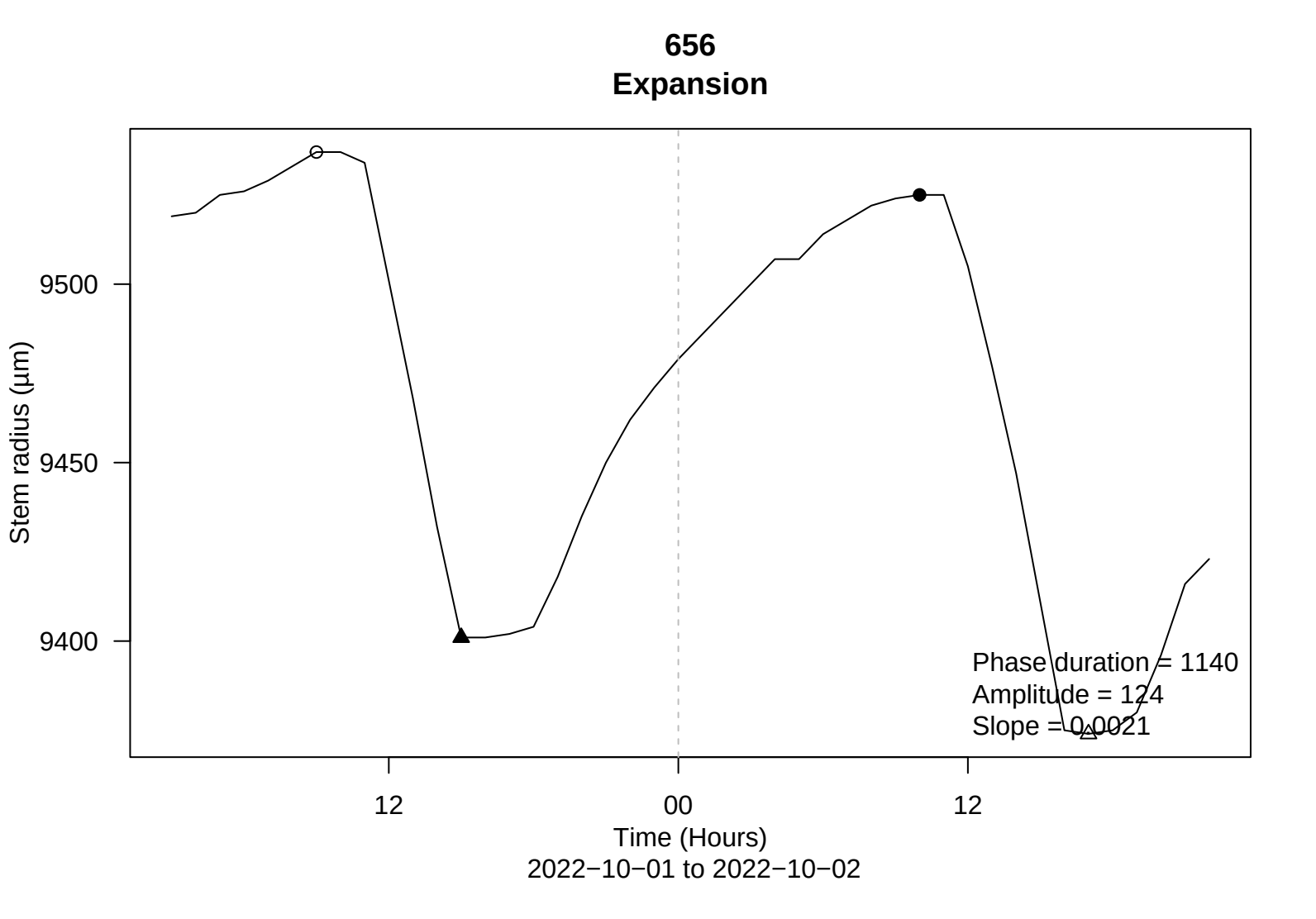
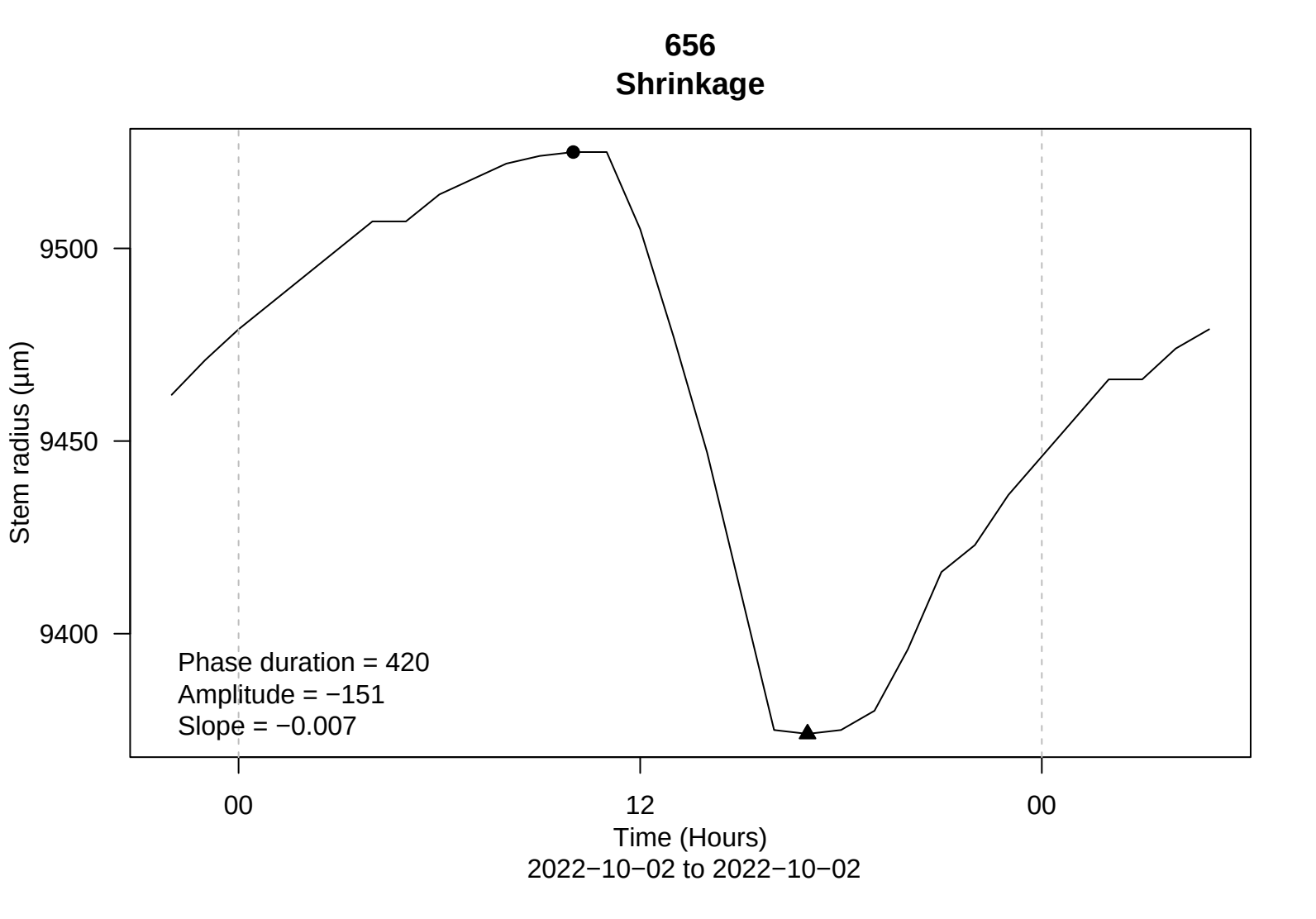
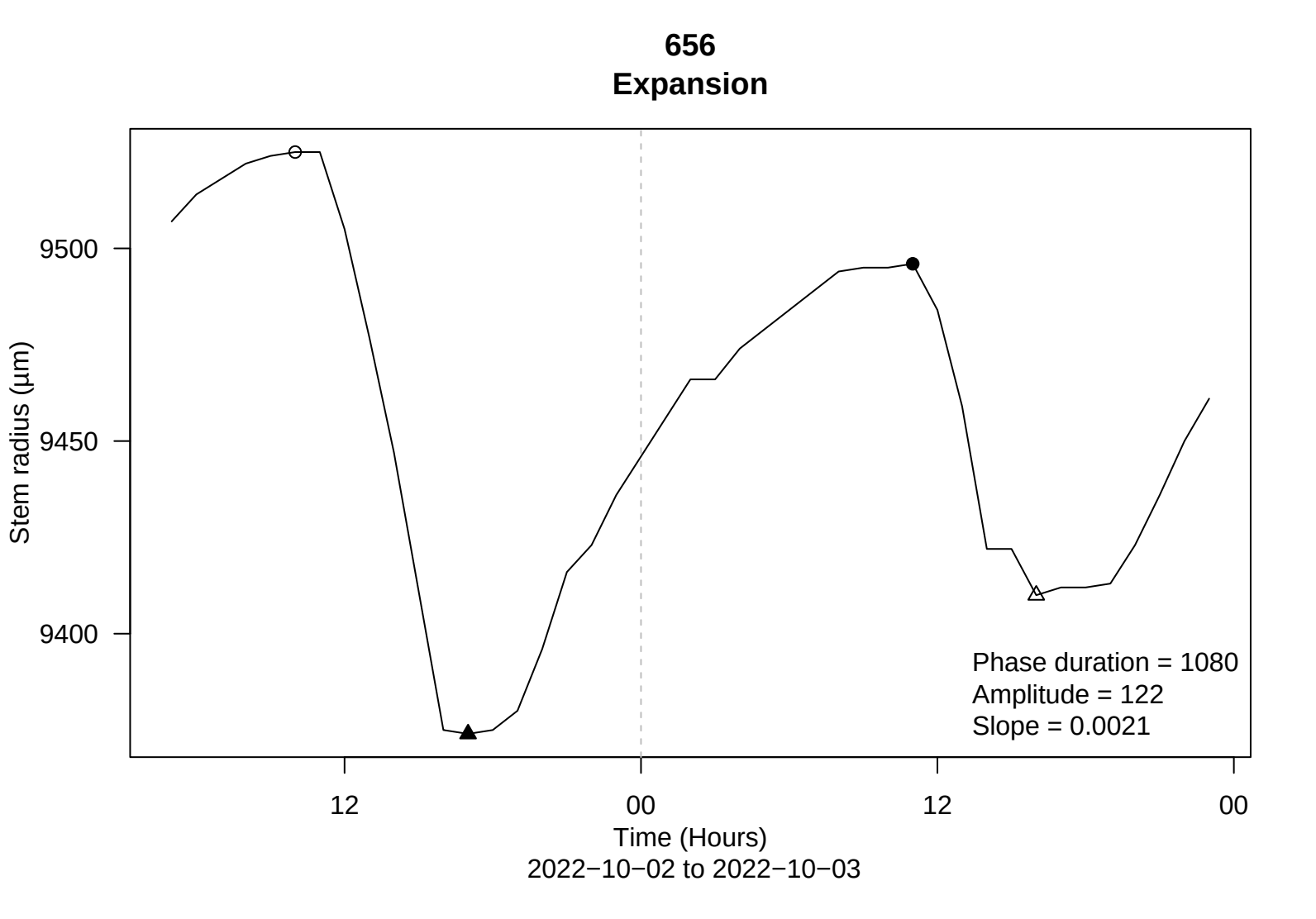
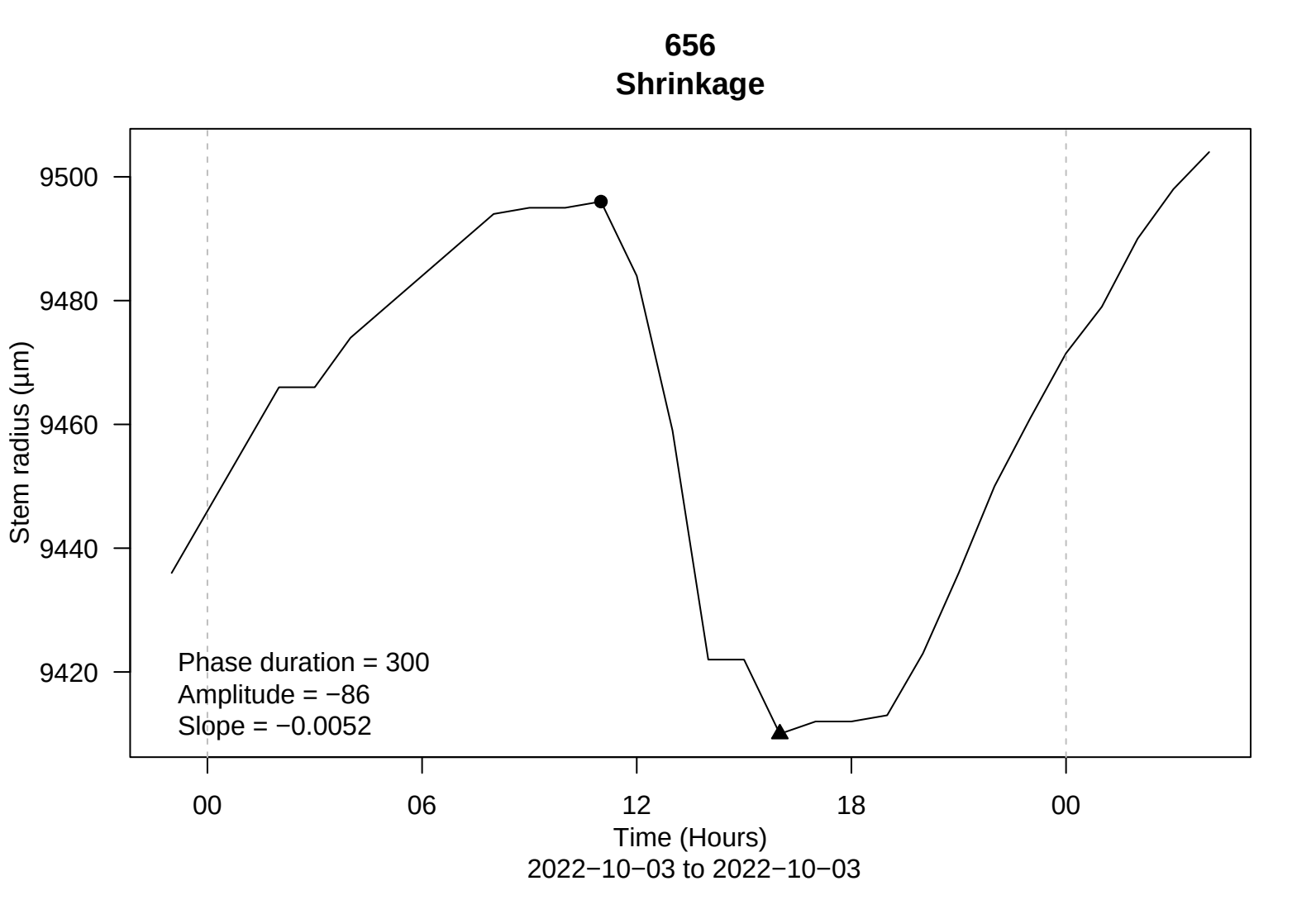
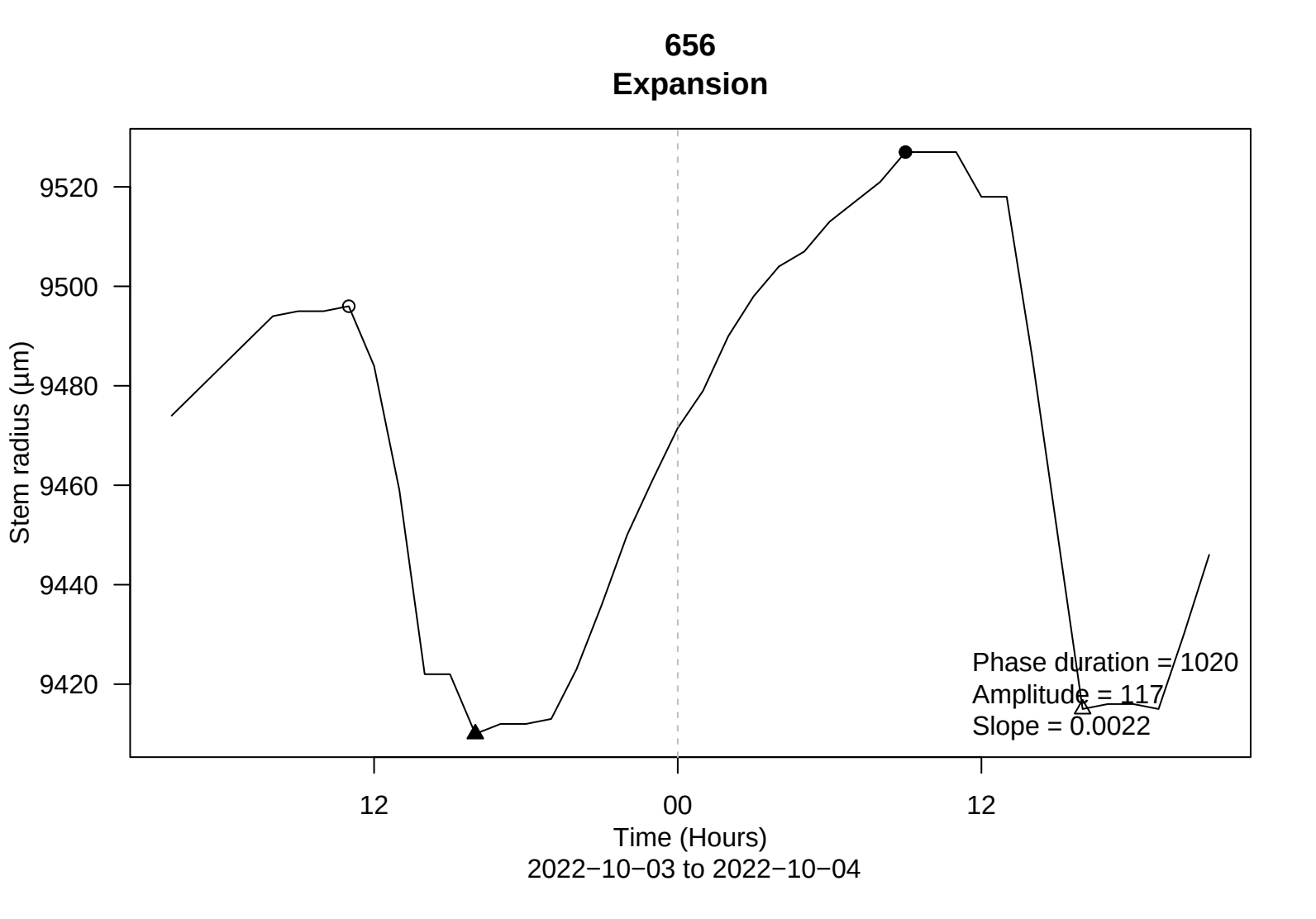

656
Shrinkage
9540
9520
9500
9480
9460
9440
9420
9400
Stem radius (µm)
Phase duration = 360
Amplitude = −136
Slope = −0.0068
00
06
12
18
00
Time (Hours)
2022−10−01 to 2022−10−01

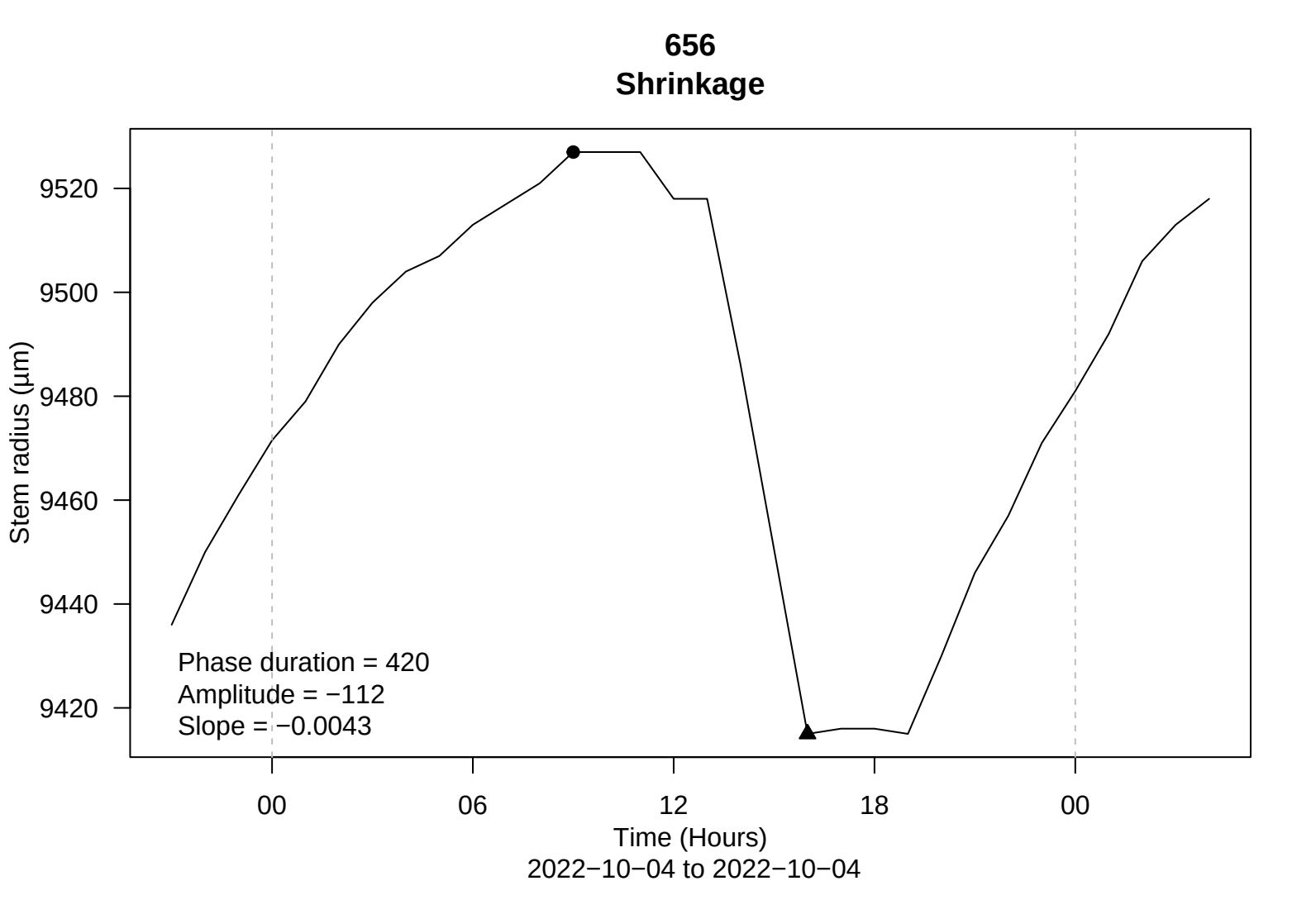

656
Expansion
9500
9450
9400
Stem radius (µm)
Phase duration = 1140
Amplitude = 124
Slope = 0.0021
12
00
12
Time (Hours)
2022−10−01 to 2022−10−02

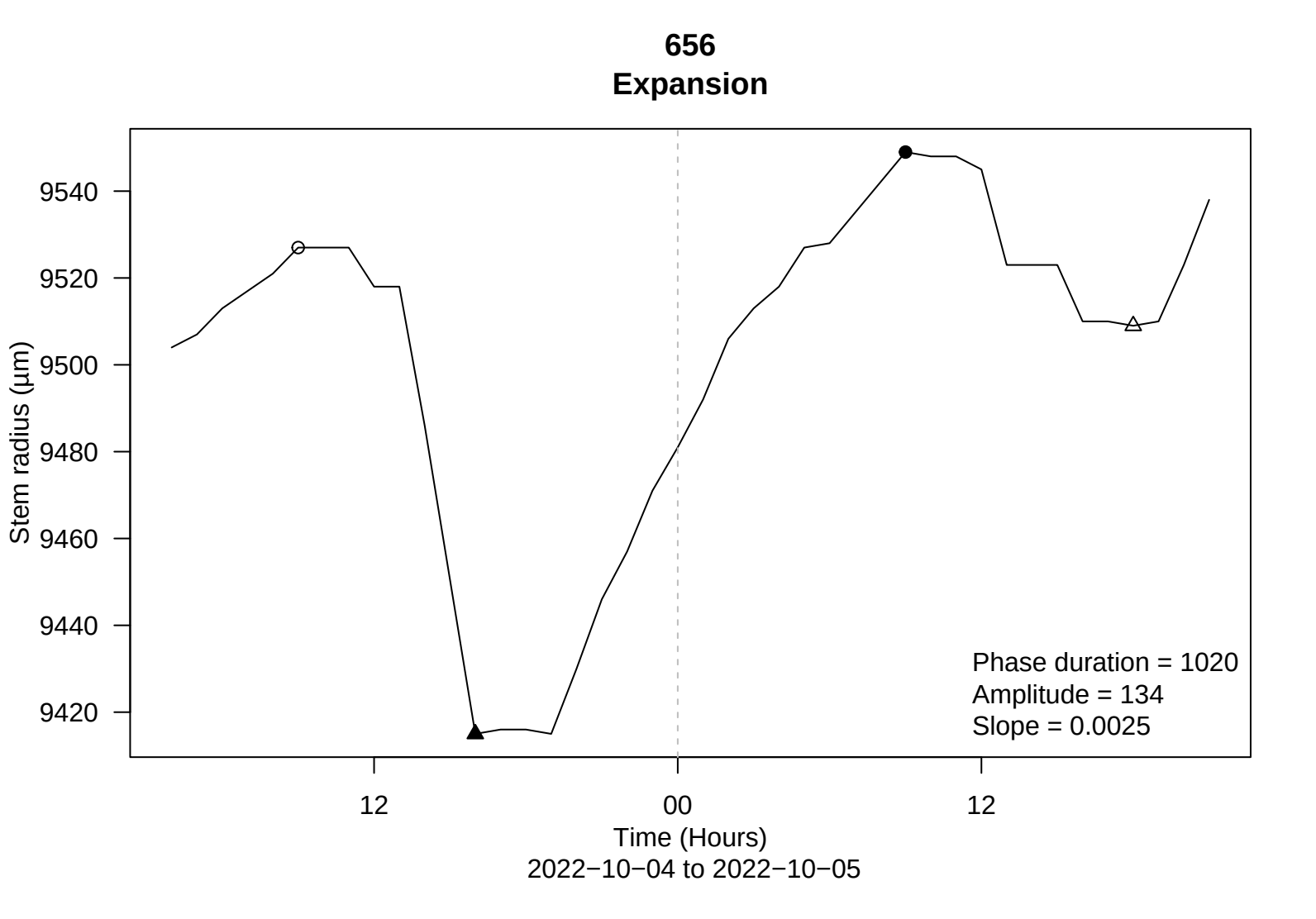

656
Shrinkage
9500
9450
9400
Stem radius (µm)
Phase duration = 420
Amplitude = −151
Slope = −0.007
00
12
00
Time (Hours)
2022−10−02 to 2022−10−02

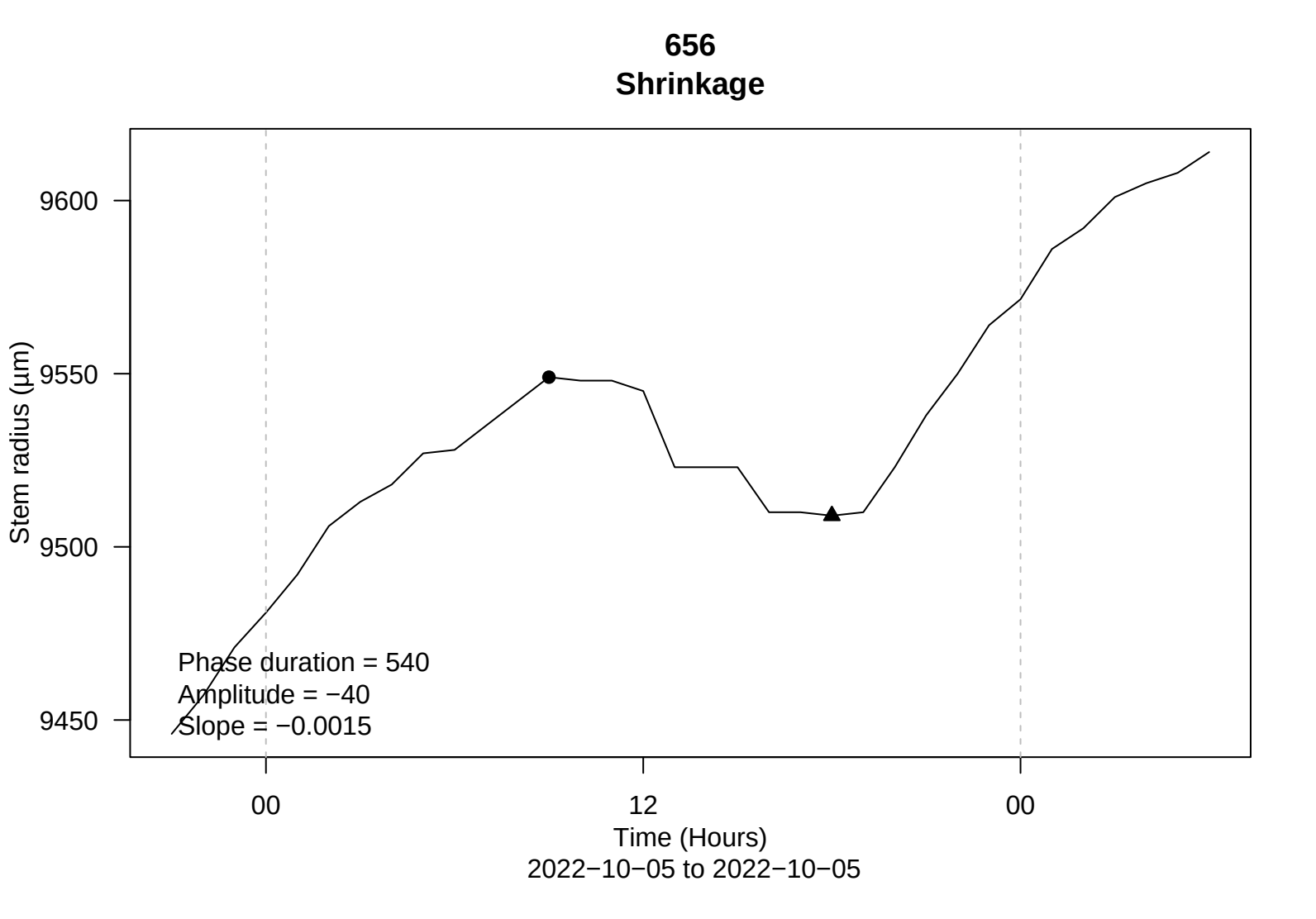

656
Expansion
9500
9450
9400
Stem radius (µm)
Phase duration = 1080
Amplitude = 122
Slope = 0.0021
12
00
12
00
Time (Hours)
2022−10−02 to 2022−10−03

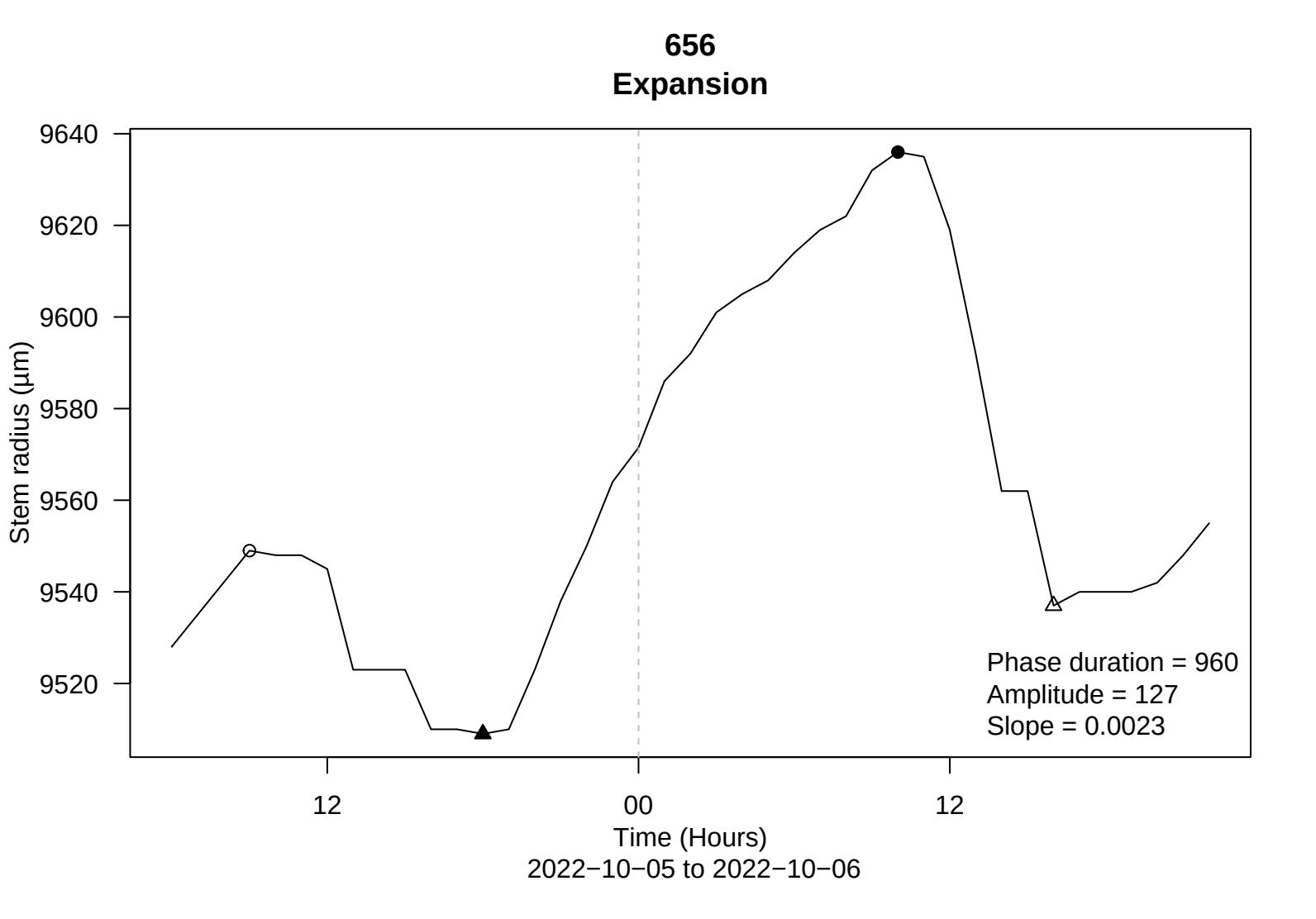

656
Shrinkage
9500
9480
9460
9440
9420
Stem radius (µm)
Phase duration = 300
Amplitude = −86
Slope = −0.0052
00
06
12
18
00
Time (Hours)
2022−10−03 to 2022−10−03

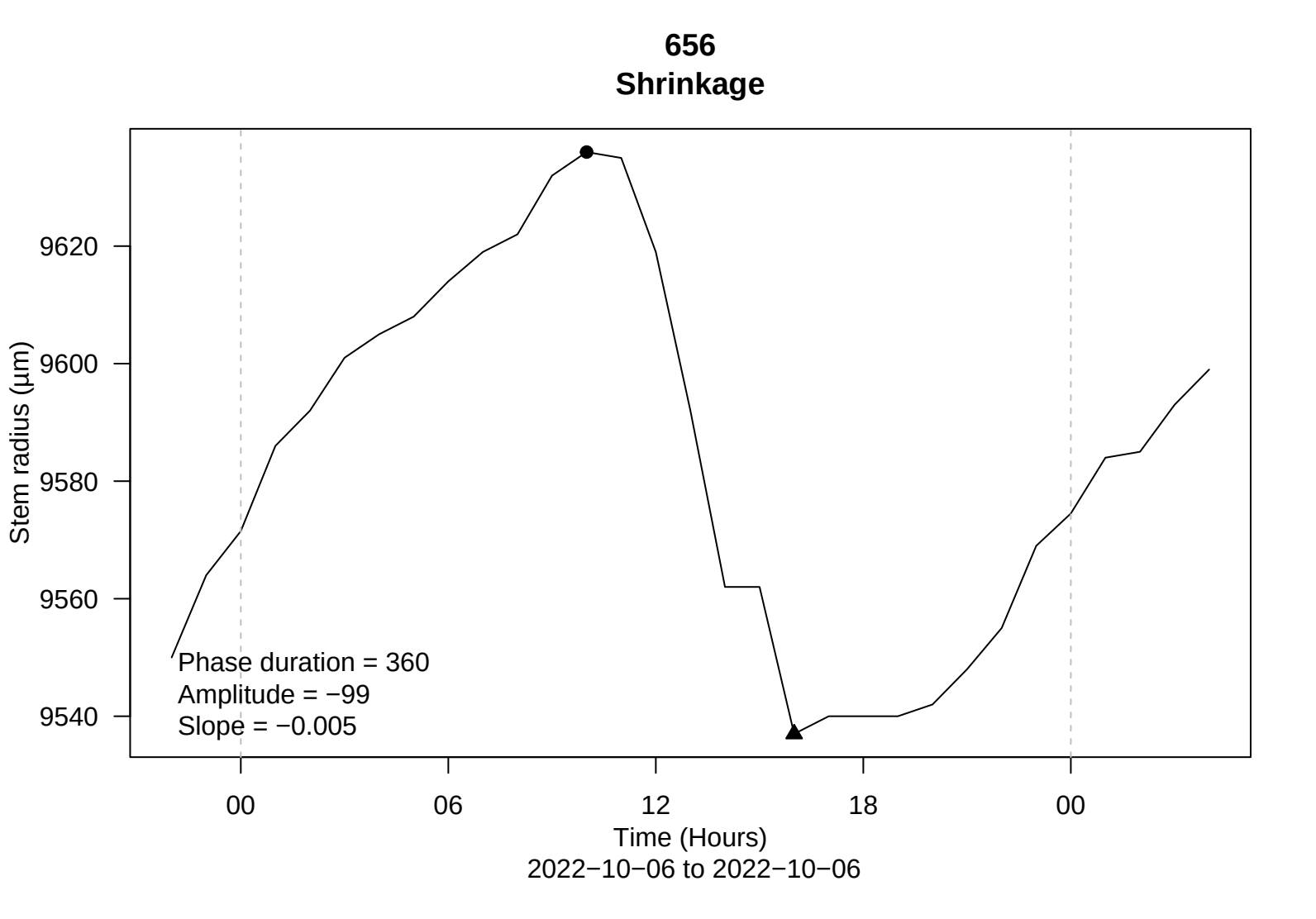

656
Expansion
9520
9500
9480
9460
9440
9420
Stem radius (µm)
Phase duration = 1020
Amplitude = 117
Slope = 0.0022
12
00
12
Time (Hours)
2022−10−03 to 2022−10−04

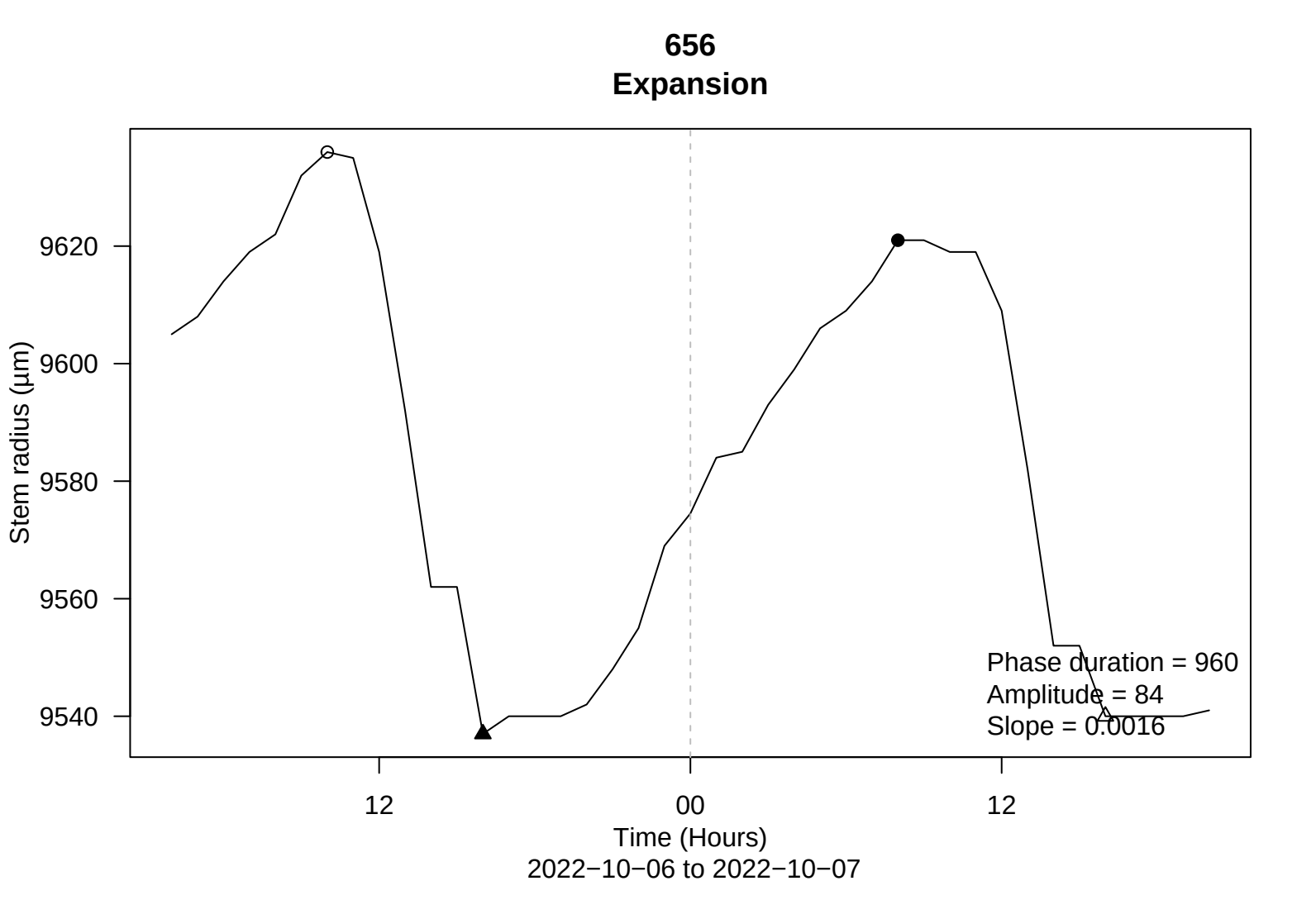

656
Shrinkage
9520
9500
9480
9460
9440
9420
Stem radius (µm)
Phase duration = 420
Amplitude = −112
Slope = −0.0043
00
06
12
18
00
Time (Hours)
2022−10−04 to 2022−10−04

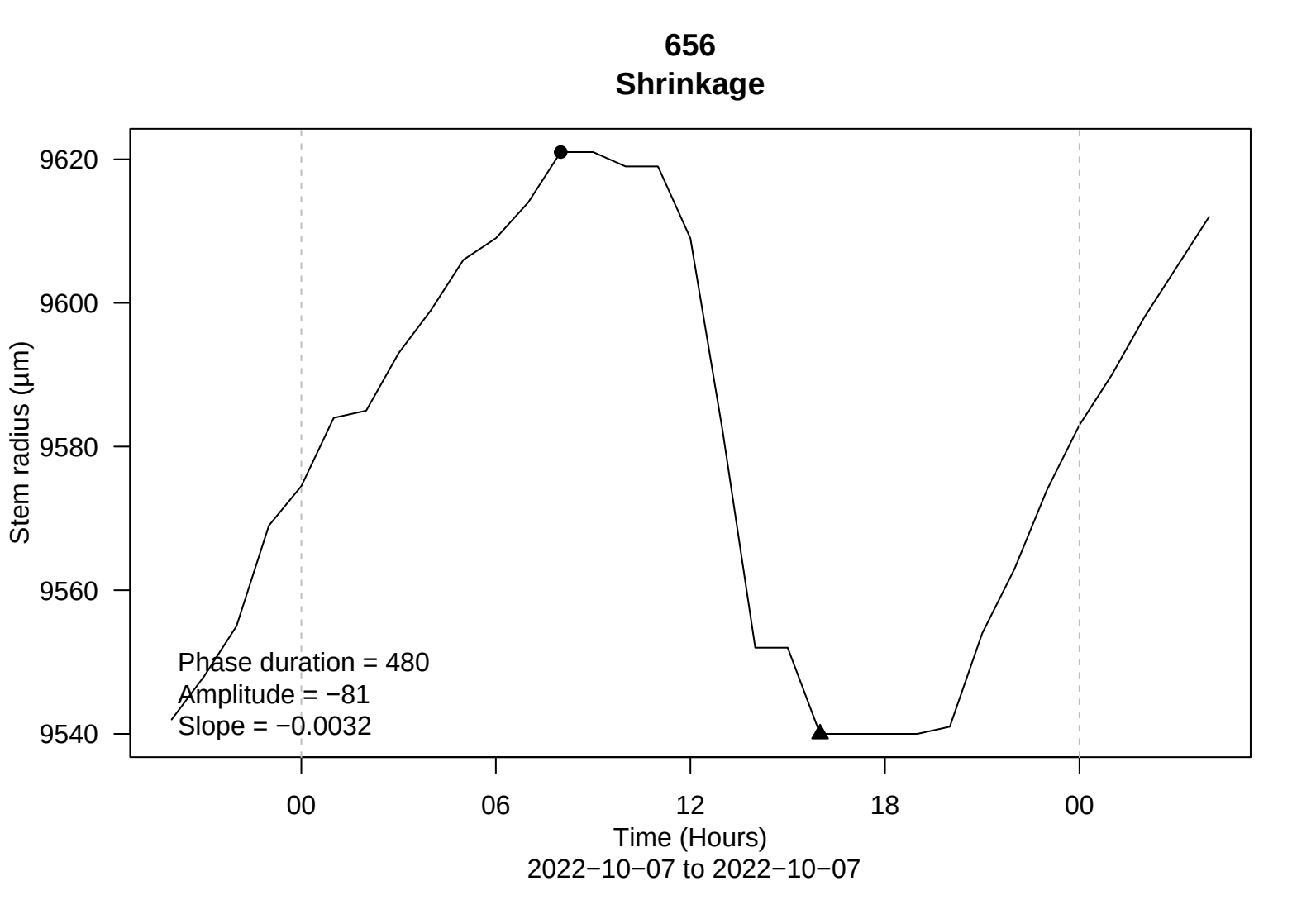

656
Expansion
9540
9520
9500
9480
9460
9440
9420
Stem radius (µm)
Phase duration = 1020
Amplitude = 134
Slope = 0.0025
12
00
12
Time (Hours)
2022−10−04 to 2022−10−05

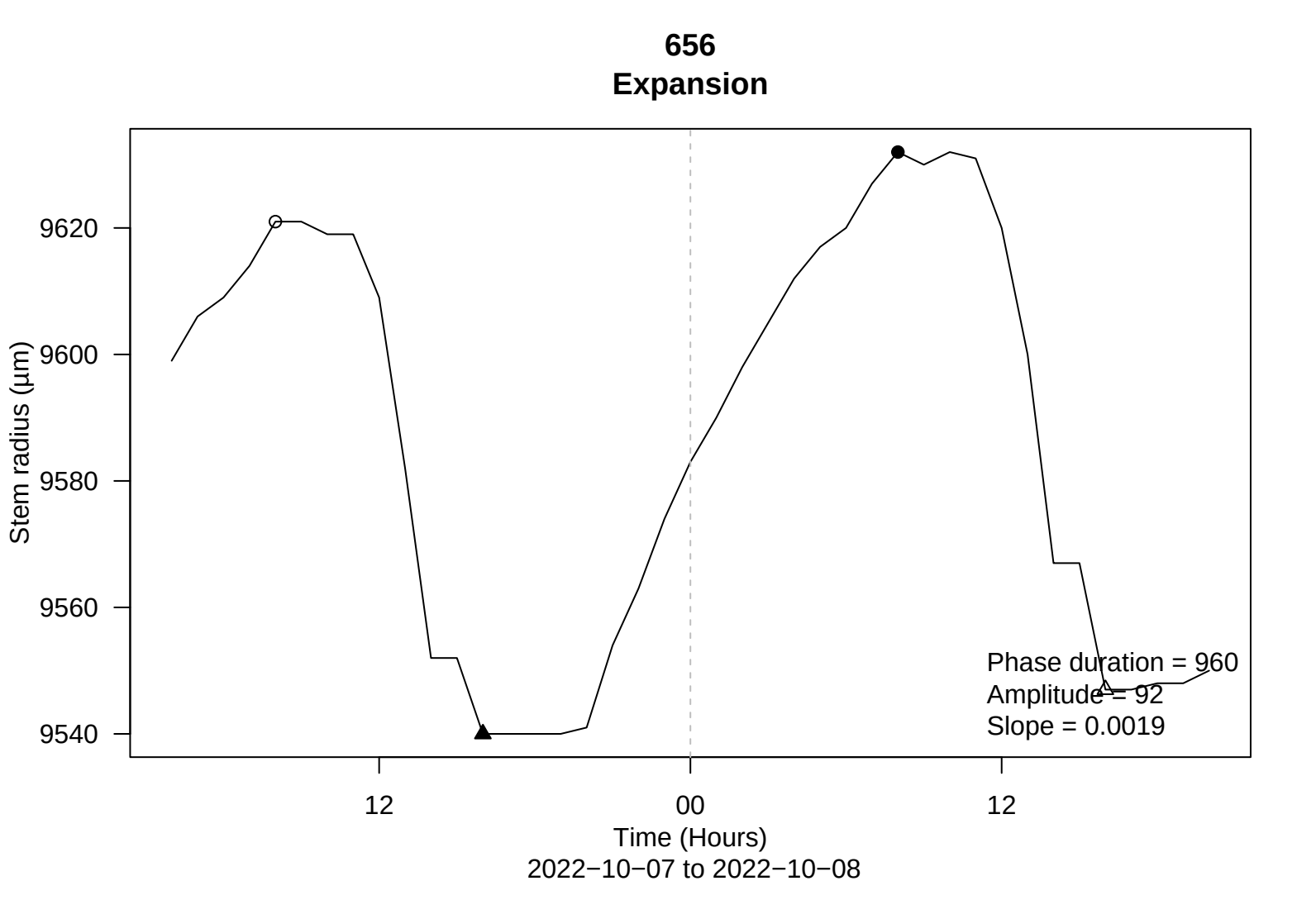

656
Shrinkage
9600
9550
9500
9450
Stem radius (µm)
Phase duration = 540
Amplitude = −40
Slope = −0.0015
00
12
00
Time (Hours)
2022−10−05 to 2022−10−05

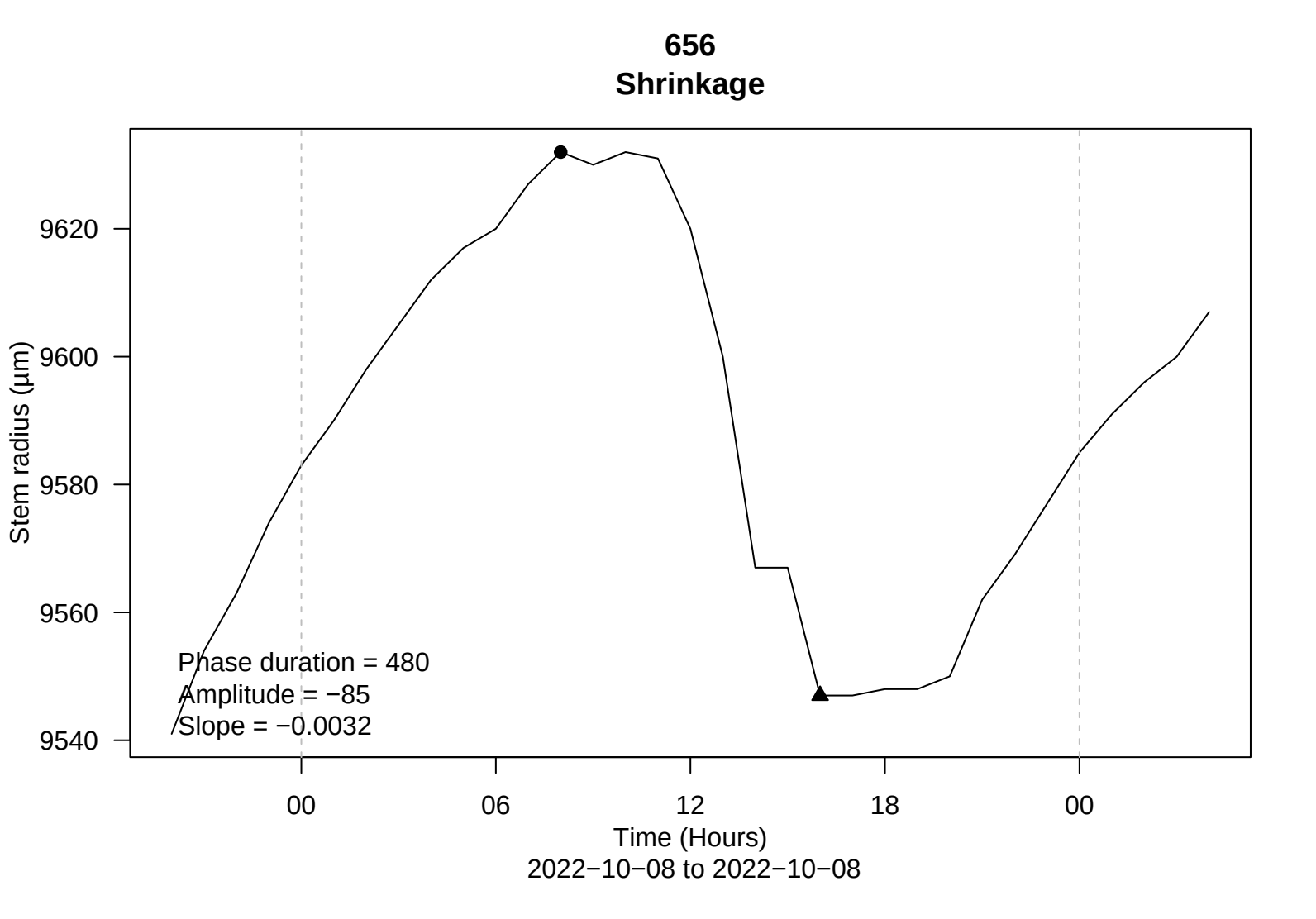

656
Expansion
9640
9620
9600
9580
9560
9540
9520
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−05 to 2022−10−06
Phase duration = 960
Amplitude = 127
Slope = 0.0023

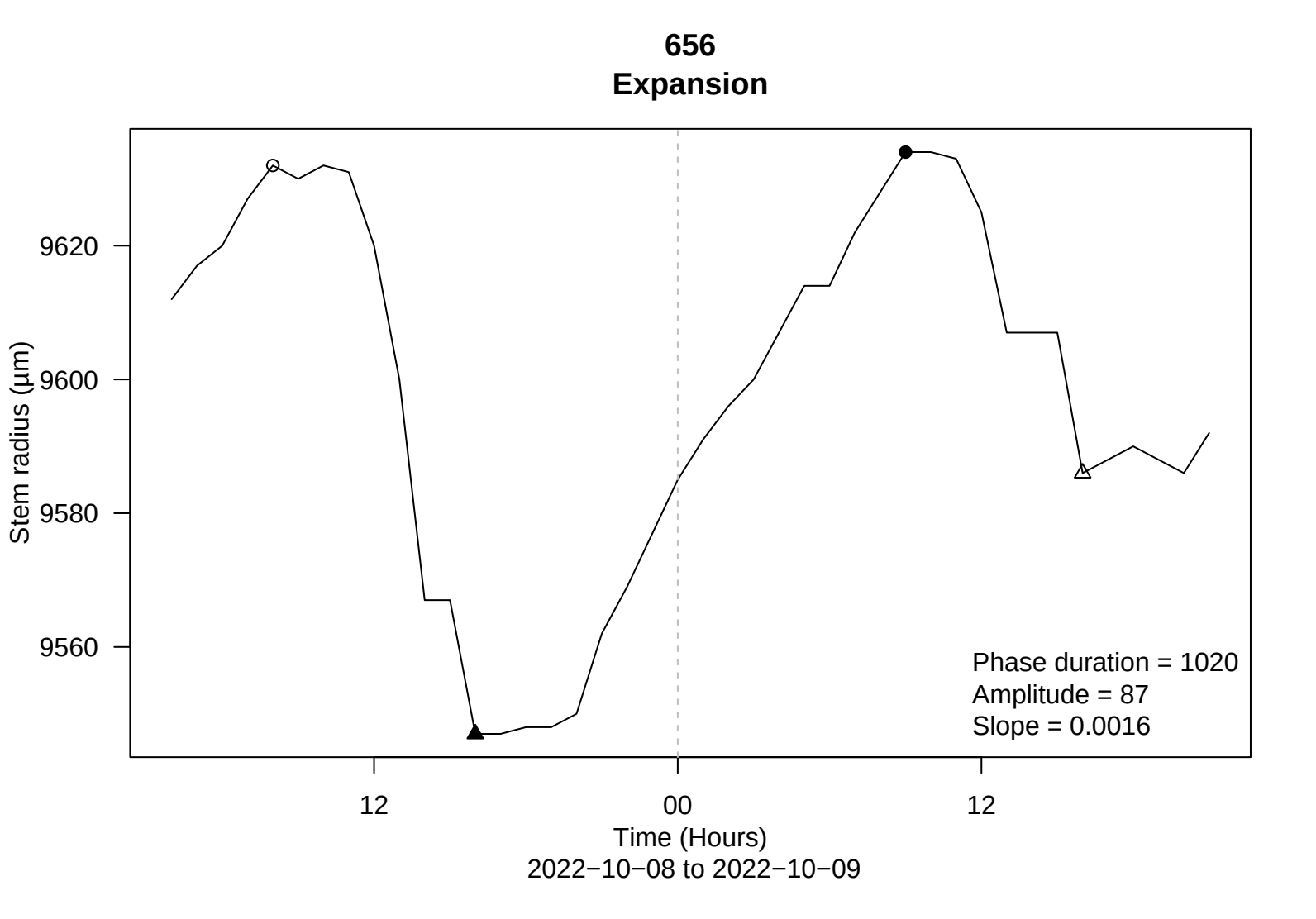

656
Shrinkage
Stem radius (µm)
9620
9600
9580
9560
9540
Phase duration = 360
Amplitude = −99
Slope = −0.005
00
06
12
18
00
Time (Hours)
2022−10−06 to 2022−10−06

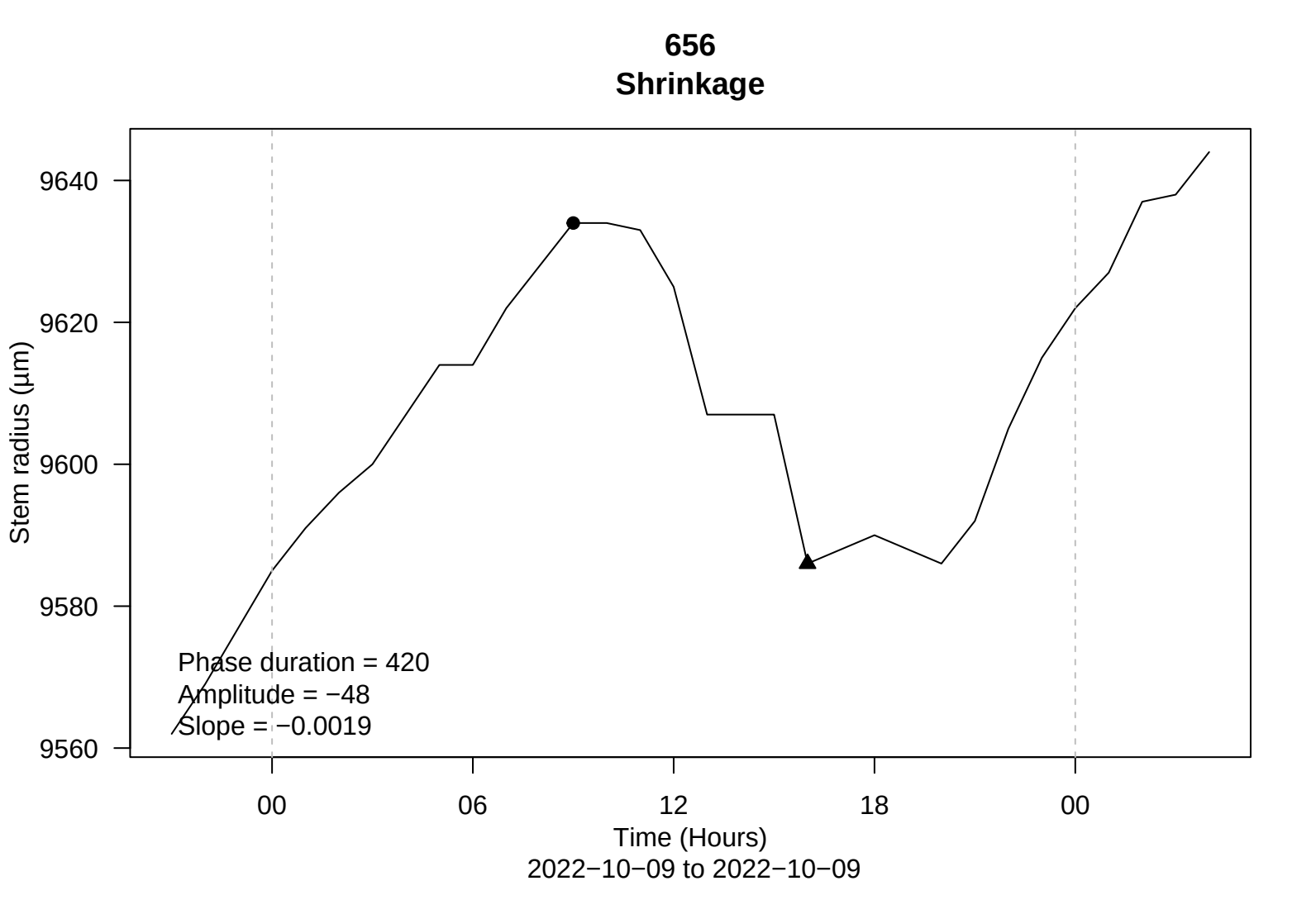

656
Expansion
9620
9600
9580
9560
9540
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−06 to 2022−10−07
Phase duration = 960
Amplitude = 84
Slope = 0.0016

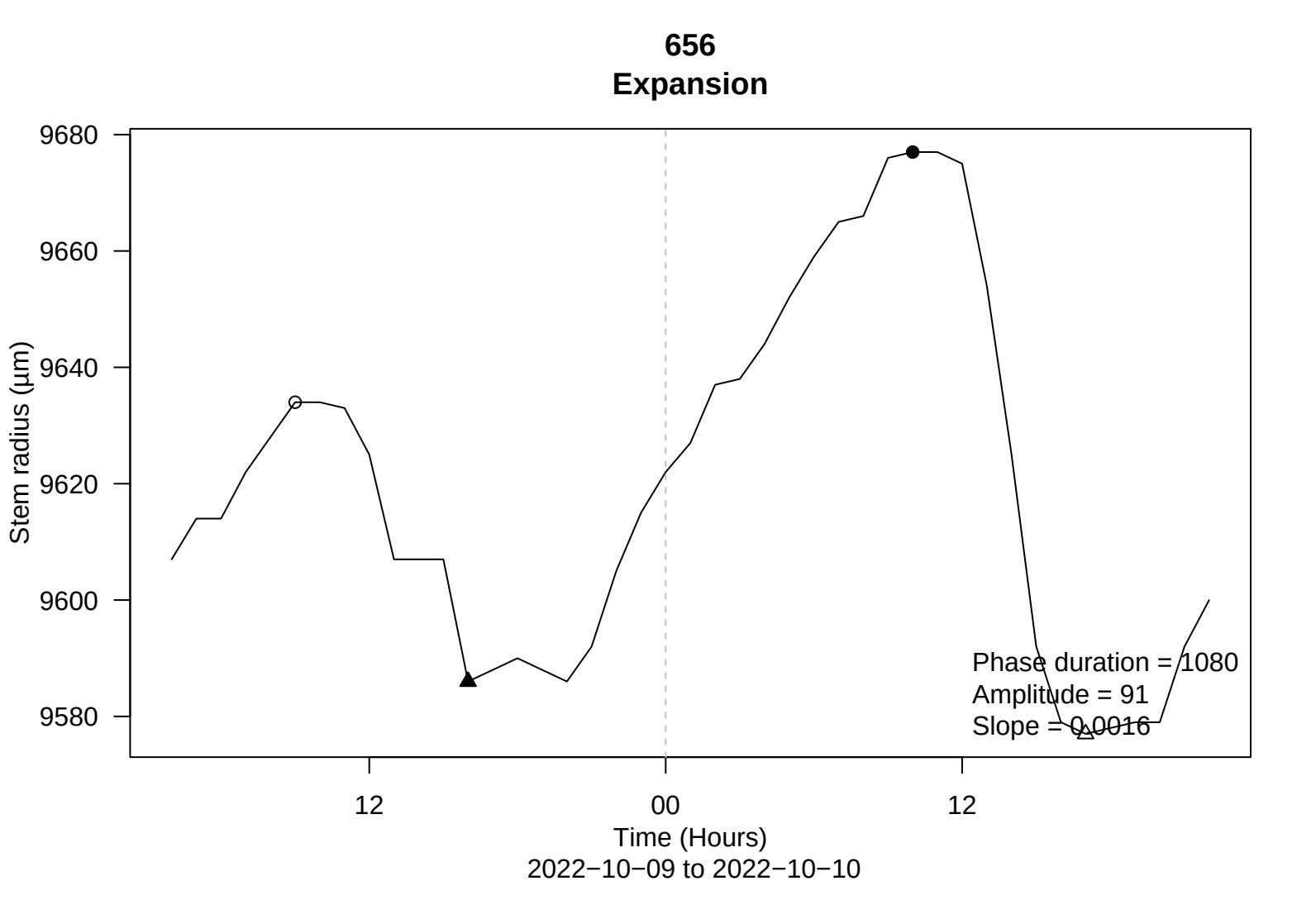

656
Shrinkage
9620
9600
9580
9560
9540
Stem radius (µm)
Phase duration = 480
Amplitude = −81
Slope = −0.0032
00
06
12
18
00
Time (Hours)
2022−10−07 to 2022−10−07

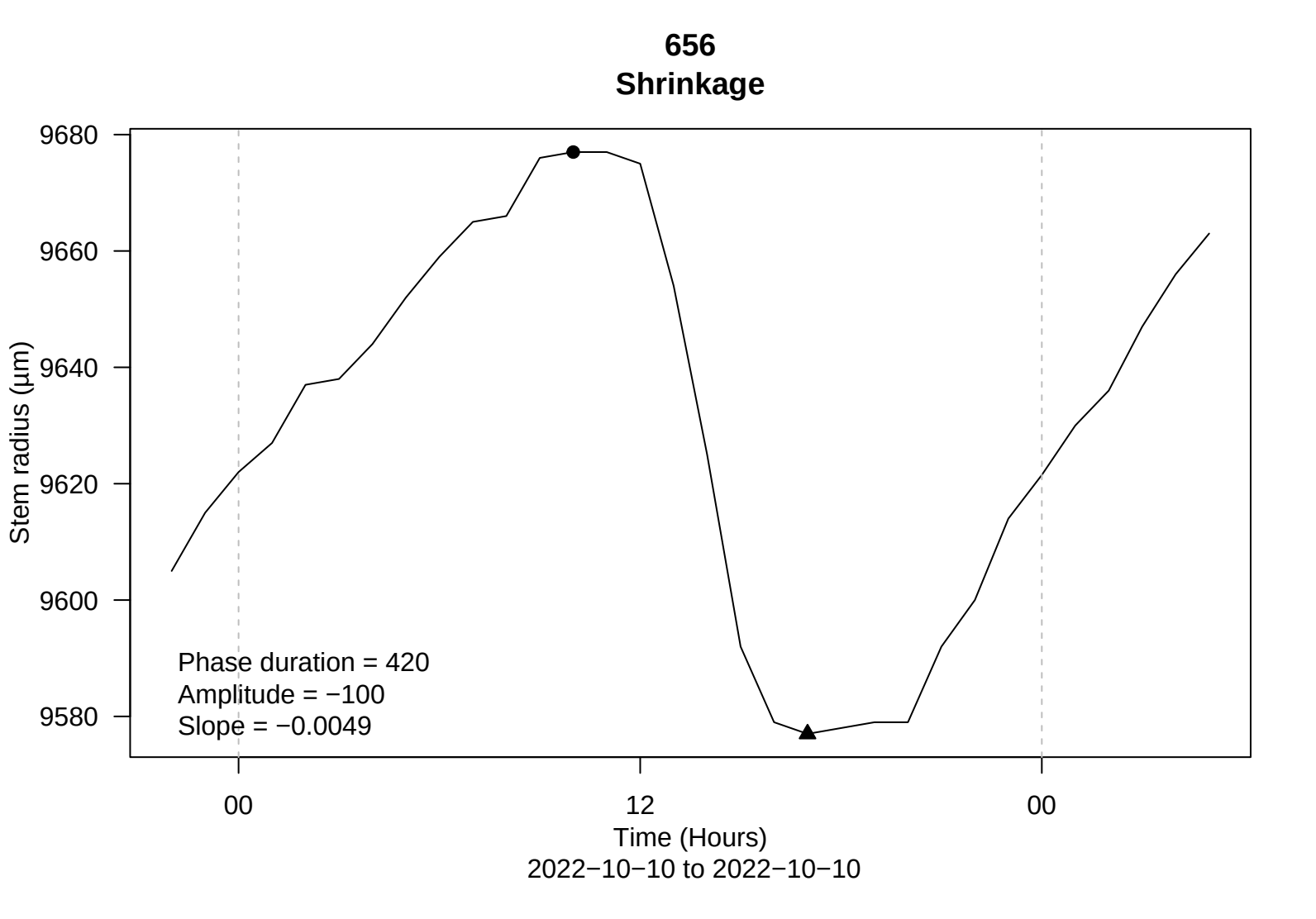

656
Expansion
9620
9600
9580
9560
9540
Stem radius (µm)
Phase duration = 960
Amplitude = 92
Slope = 0.0019
12
00
12
Time (Hours)
2022−10−07 to 2022−10−08

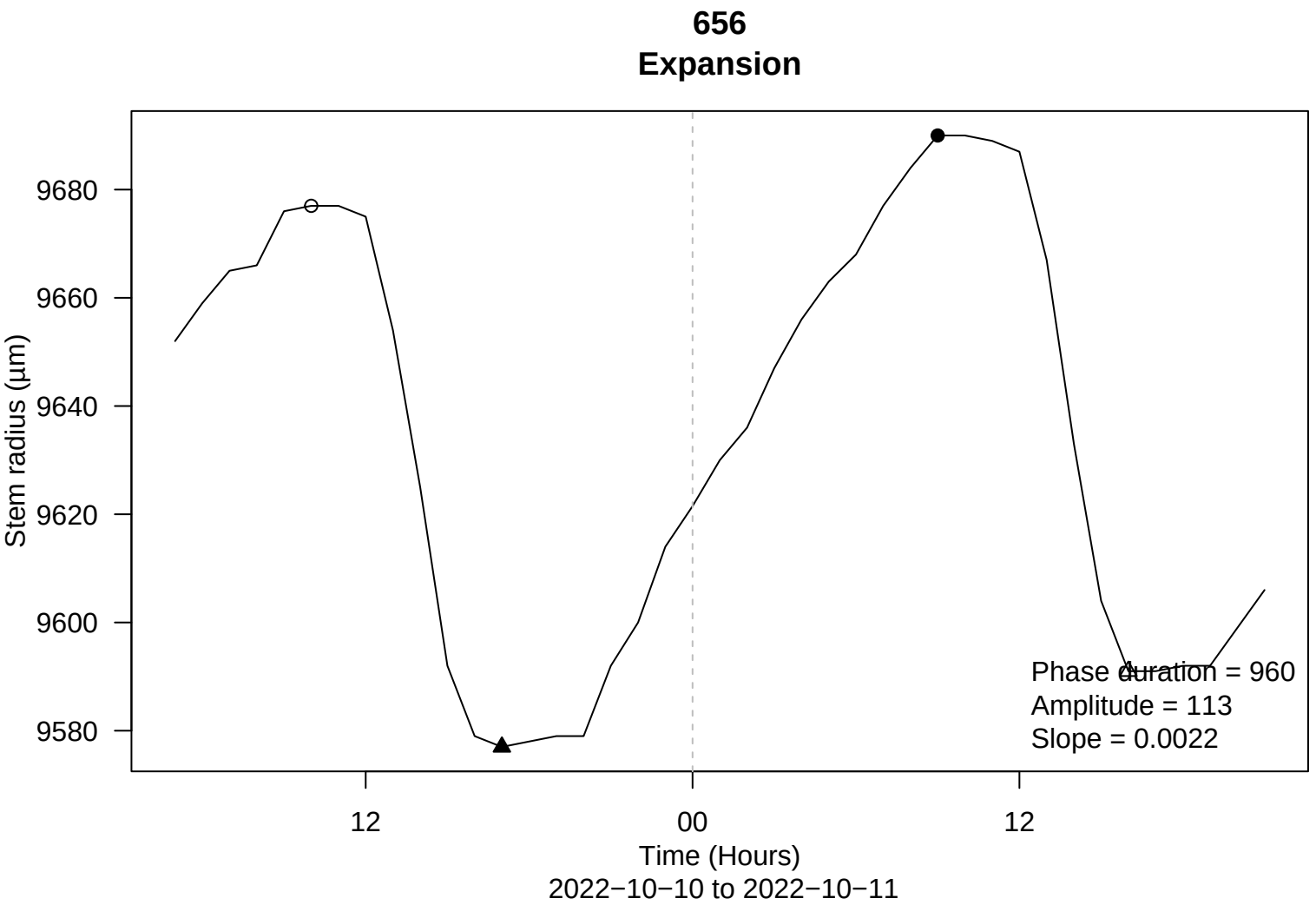

656
Shrinkage
Stem radius (µm)
9620
9600
9580
9560
9540
Phase duration = 480
Amplitude = −85
Slope = −0.0032
00
06
12
18
00
Time (Hours)
2022−10−08 to 2022−10−08

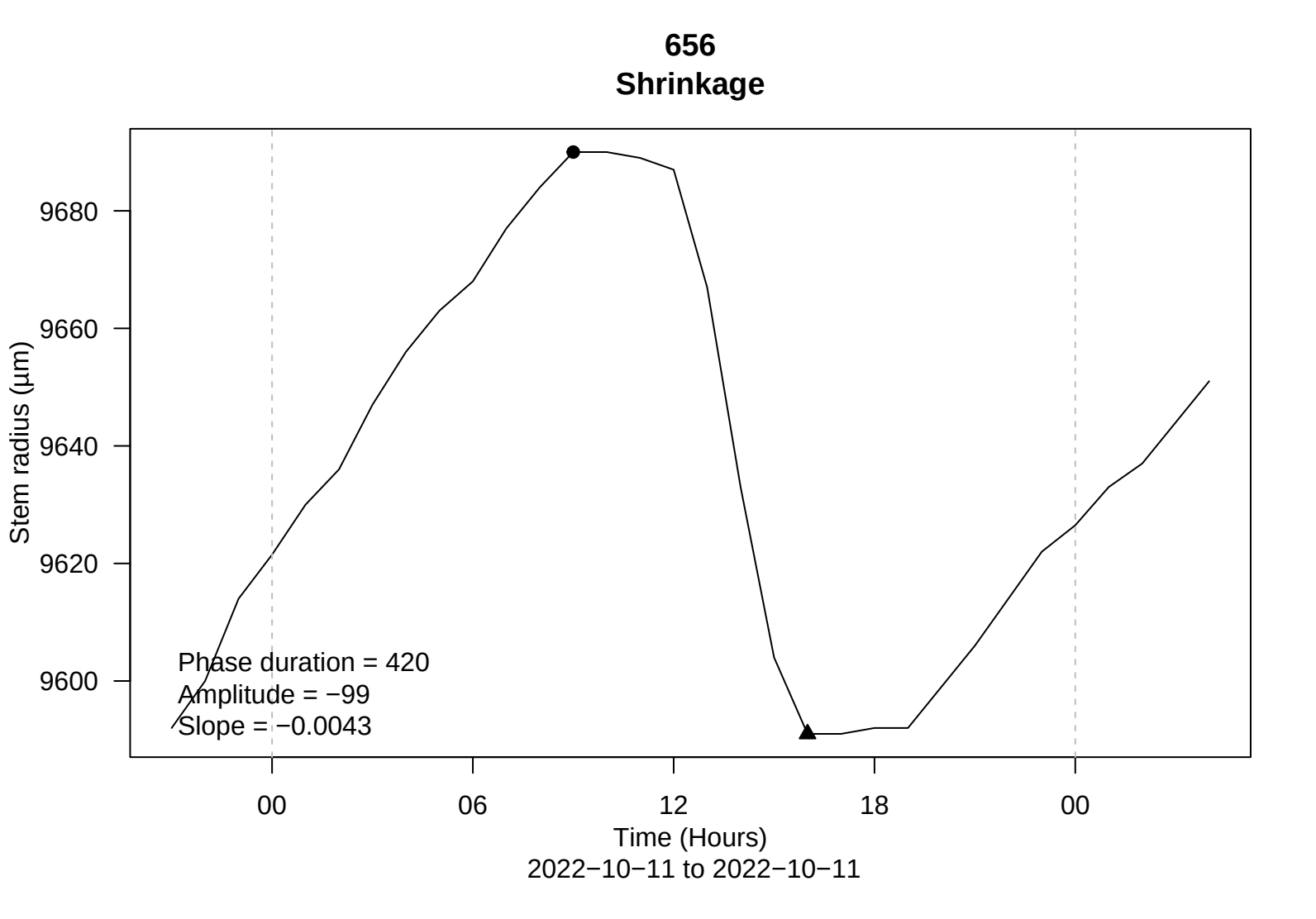

656
Expansion
9620
9600
9580
9560
Stem radius (µm)
Phase duration = 1020
Amplitude = 87
Slope = 0.0016
12
00
12
Time (Hours)
2022−10−08 to 2022−10−09

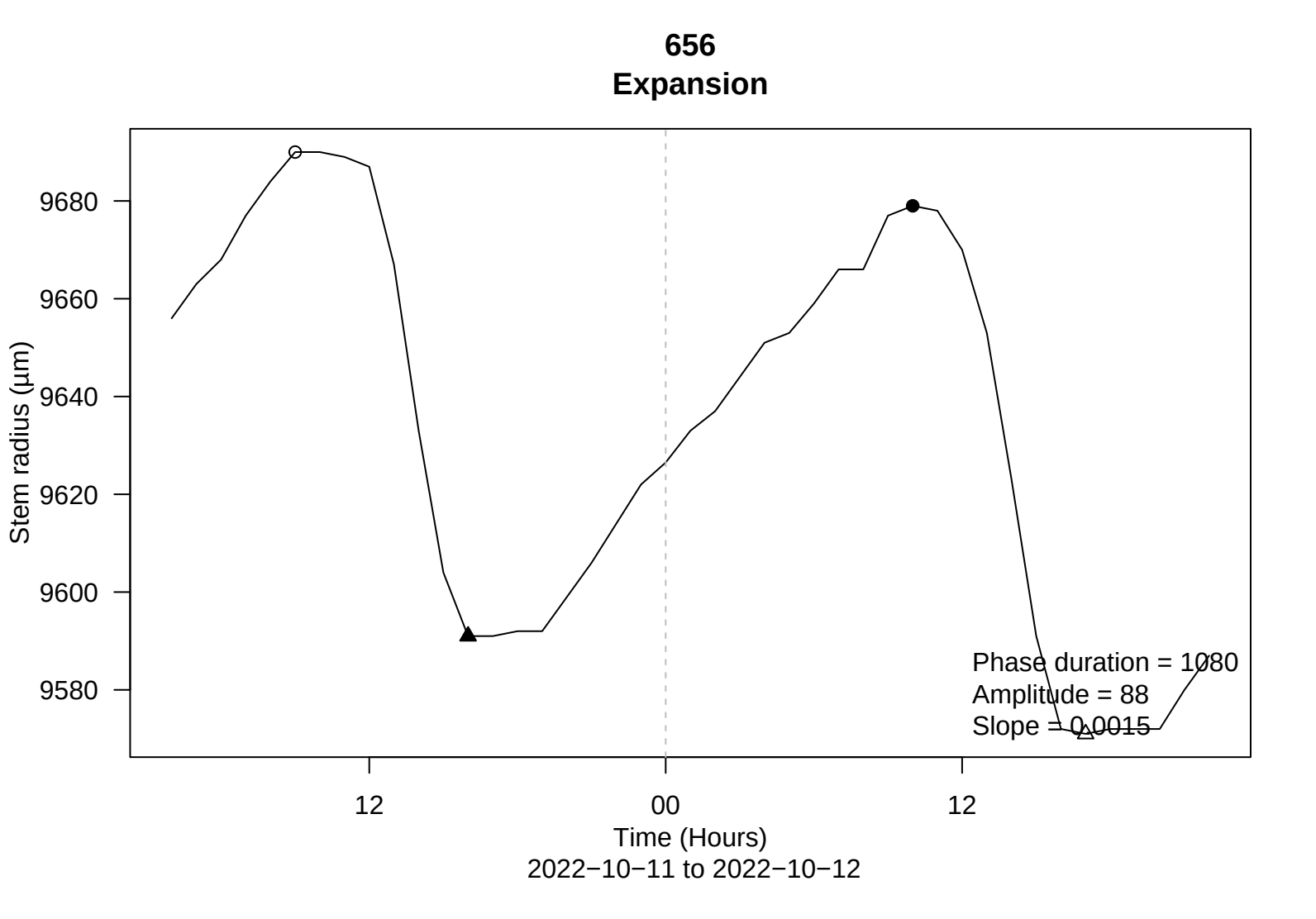

656
Shrinkage
9640
9620
9600
9580
9560
Stem radius (µm)
Phase duration = 420
Amplitude = −48
Slope = −0.0019
00
06
12
18
00
Time (Hours)
2022−10−09 to 2022−10−09

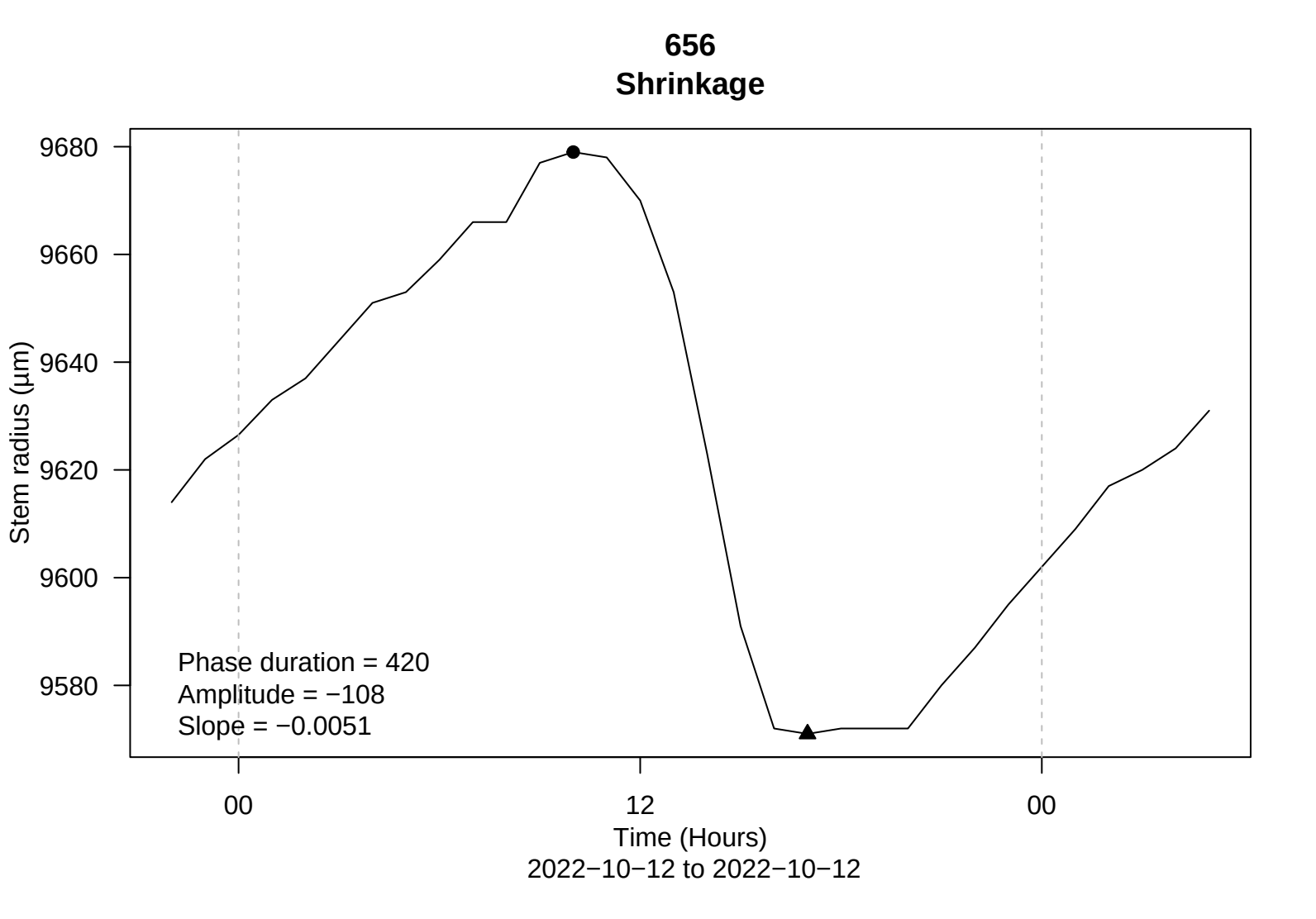

656
Expansion
9680
9660
9640
9620
9600
9580
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−09 to 2022−10−10
Phase duration = 1080
Amplitude = 91
Slope = 0.0016

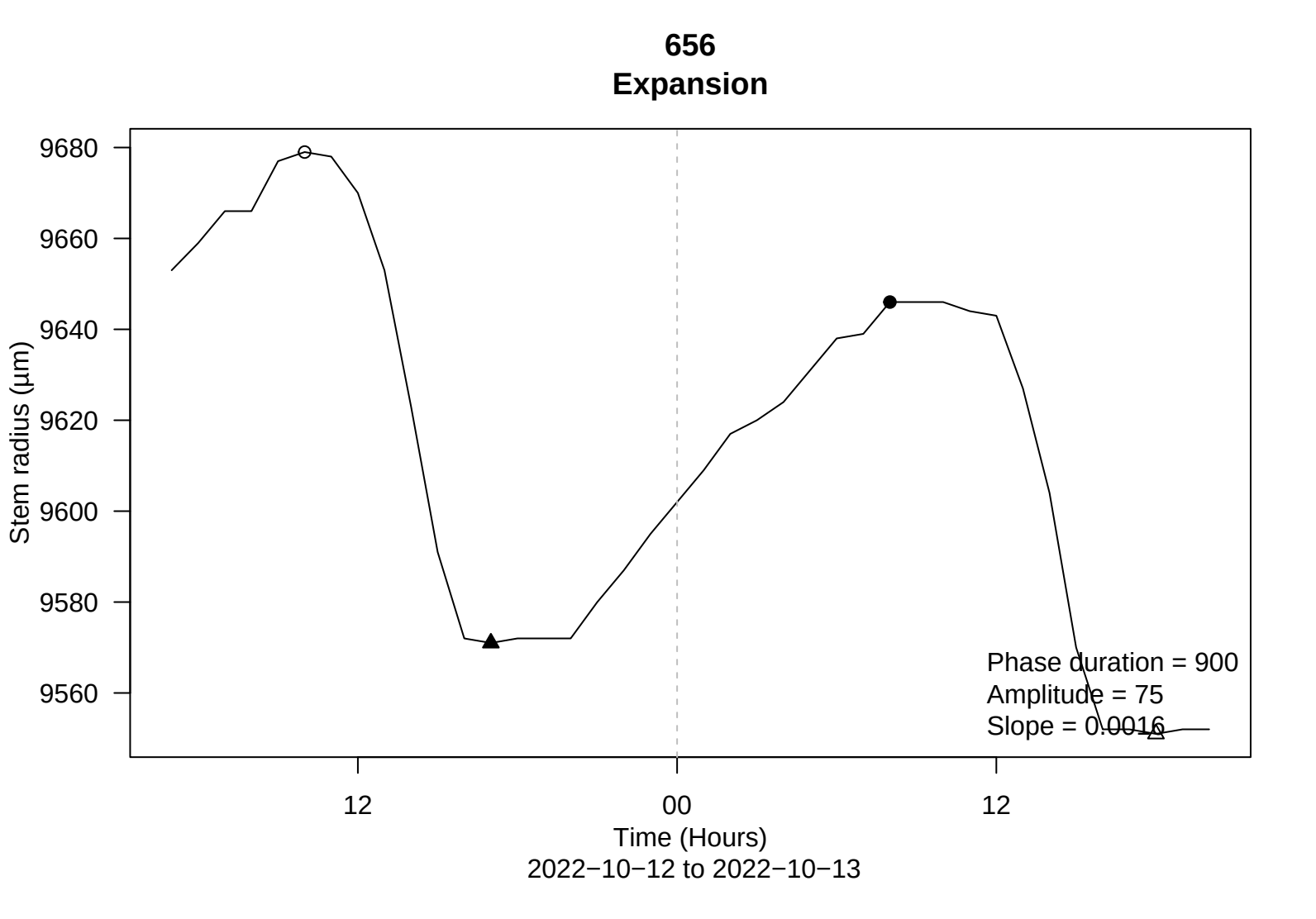

656
Shrinkage
9680
9660
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 420
Amplitude = −100
Slope = −0.0049
00
12
00
Time (Hours)
2022−10−10 to 2022−10−10

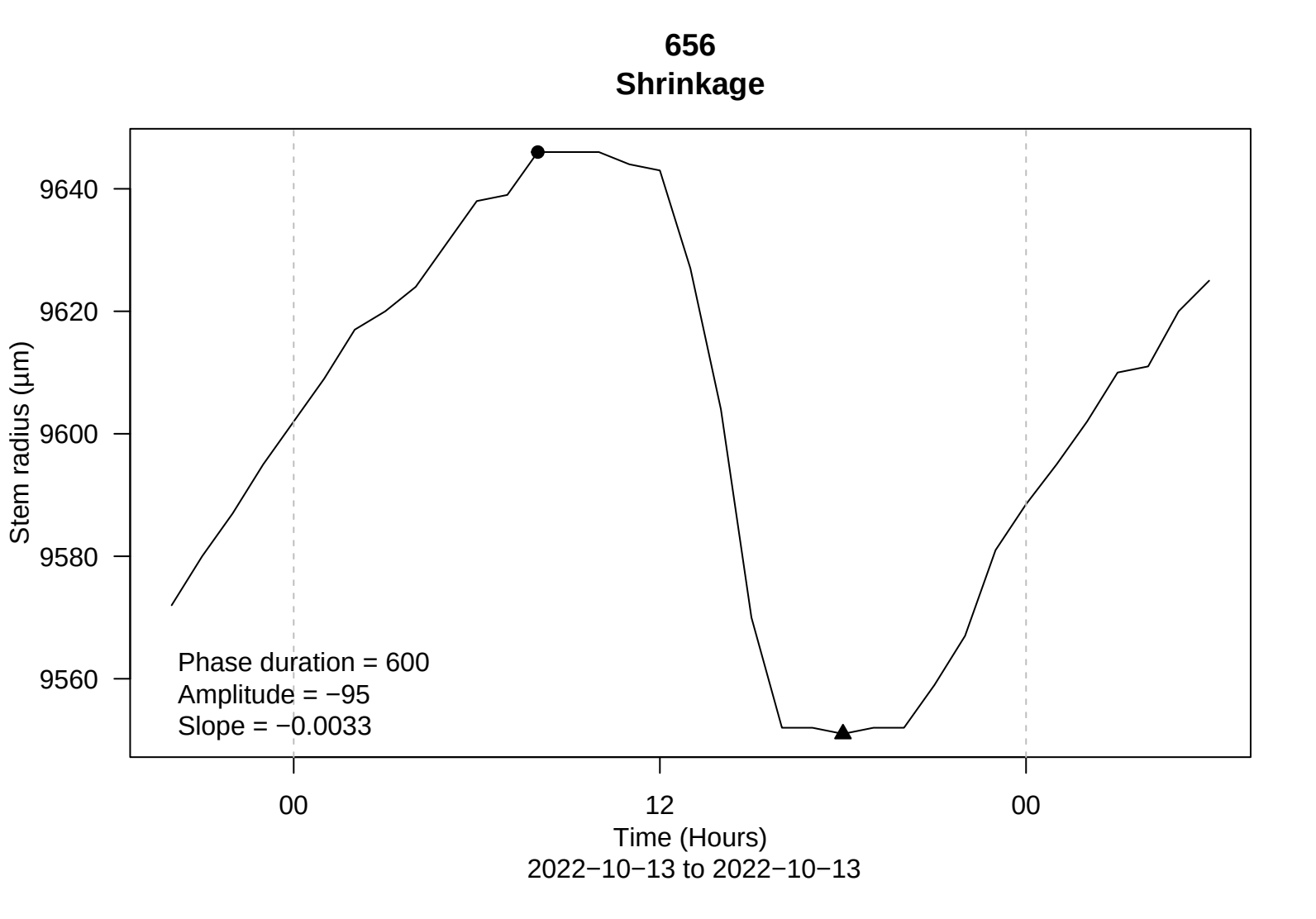

656
Expansion
9680
9660
9640
9620
9600
9580
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−10 to 2022−10−11
Phase duration = 960
Amplitude = 113
Slope = 0.0022

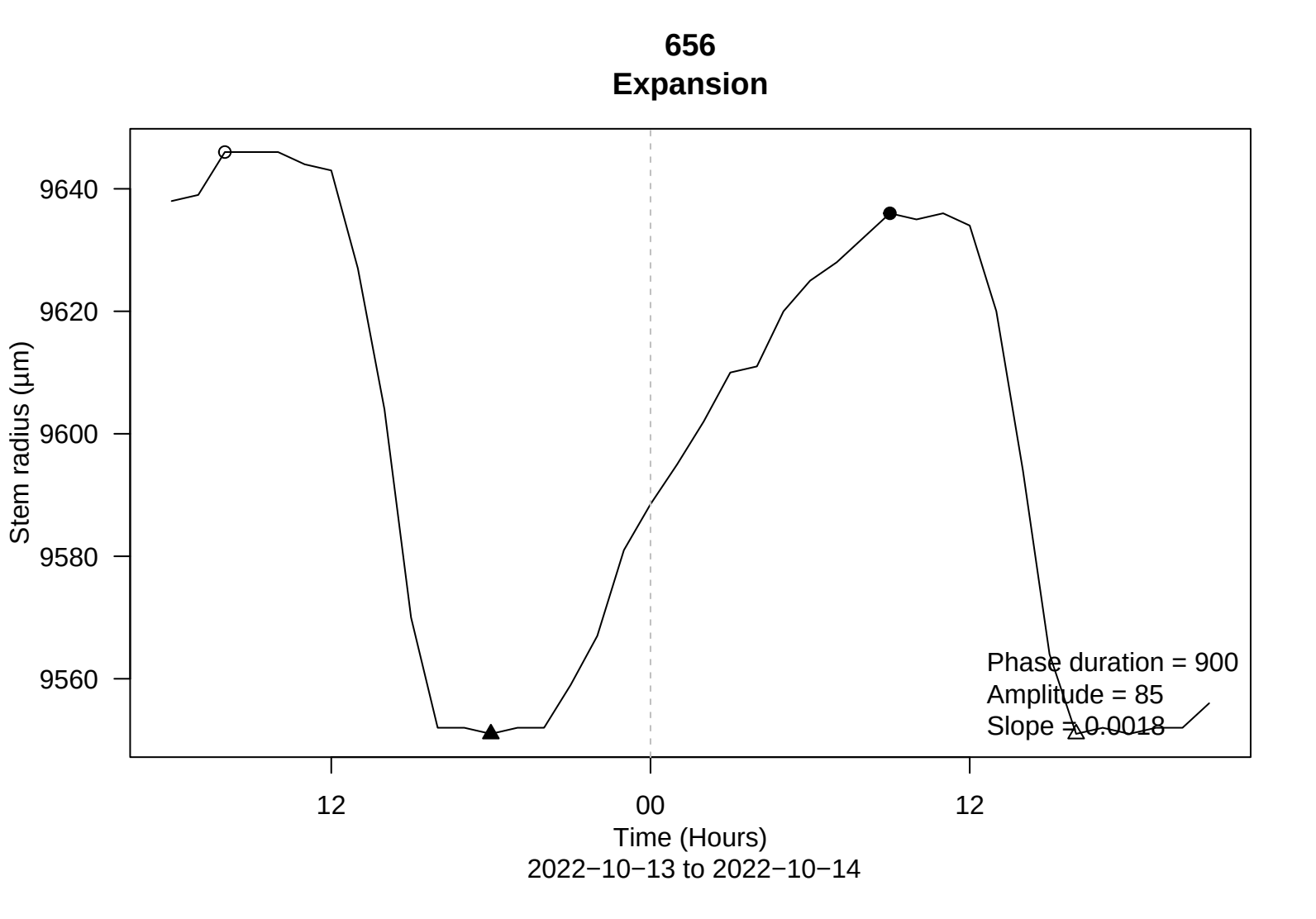

656
Shrinkage
Stem radius (µm)
9680
9660
9640
9620
9600
Phase duration = 420
Amplitude = −99
Slope = −0.0043
00
06
12
18
00
Time (Hours)
2022−10−11 to 2022−10−11

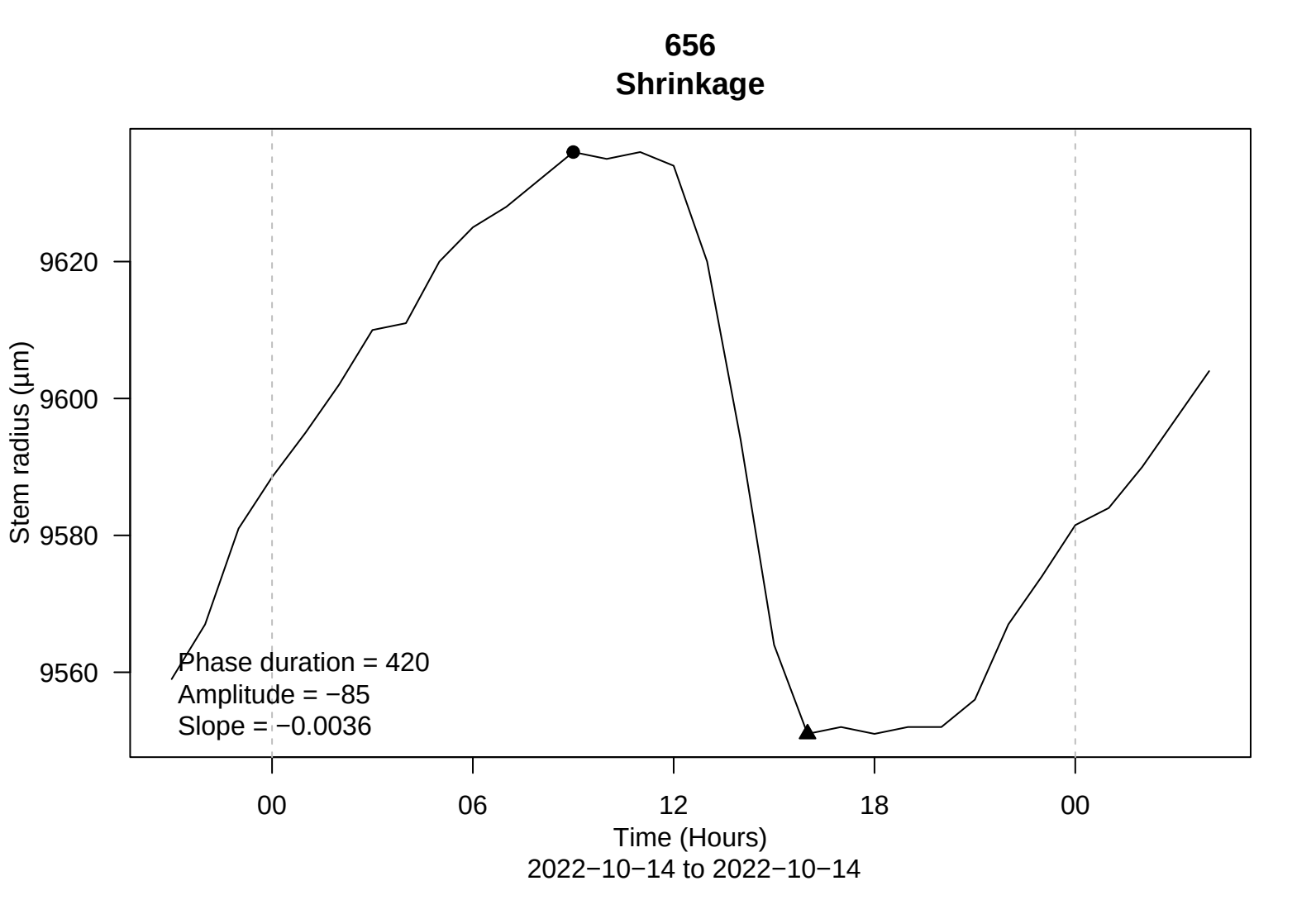

656
Expansion
9680
9660
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 1080
Amplitude = 88
Slope = 0.0015
12
00
12
Time (Hours)
2022−10−11 to 2022−10−12

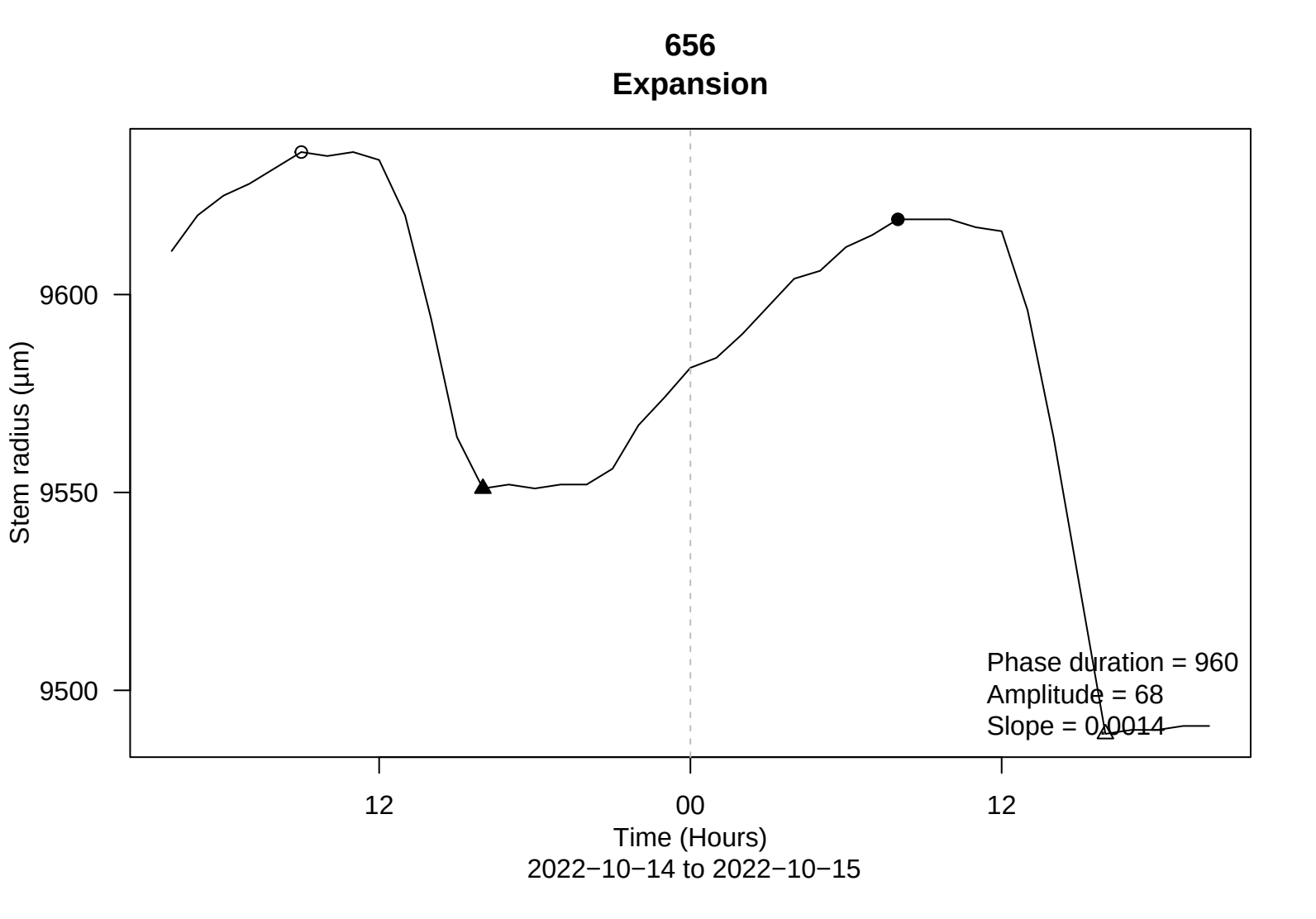

656
Shrinkage
9680
9660
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 420
Amplitude = −108
Slope = −0.0051
00
12
00
Time (Hours)
2022−10−12 to 2022−10−12

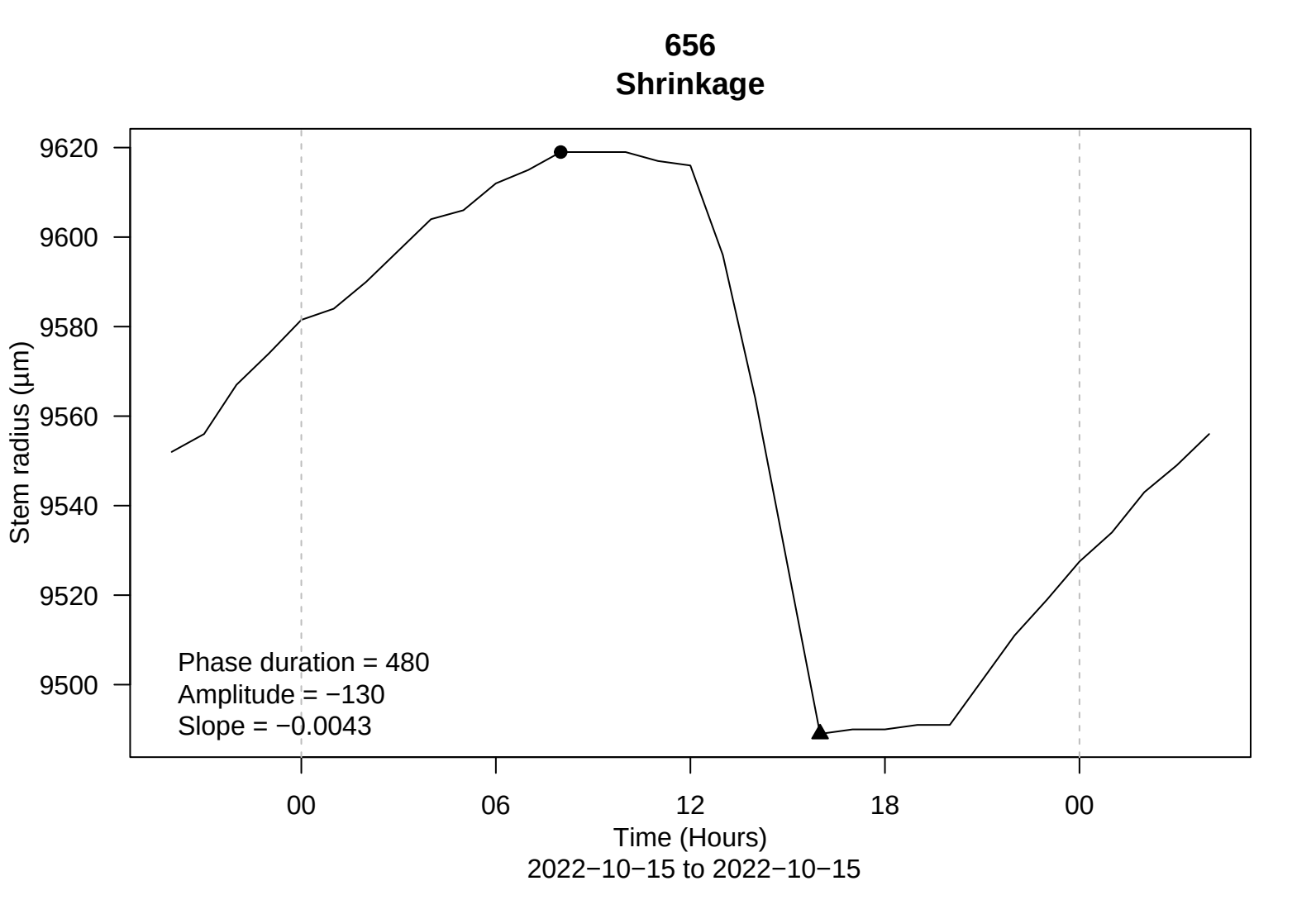

656
Expansion
9680
9660
9640
9620
9600
9580
9560
Stem radius (µm)
Phase duration = 900
Amplitude = 75
Slope = 0.0016
12
00
12
Time (Hours)
2022−10−12 to 2022−10−13

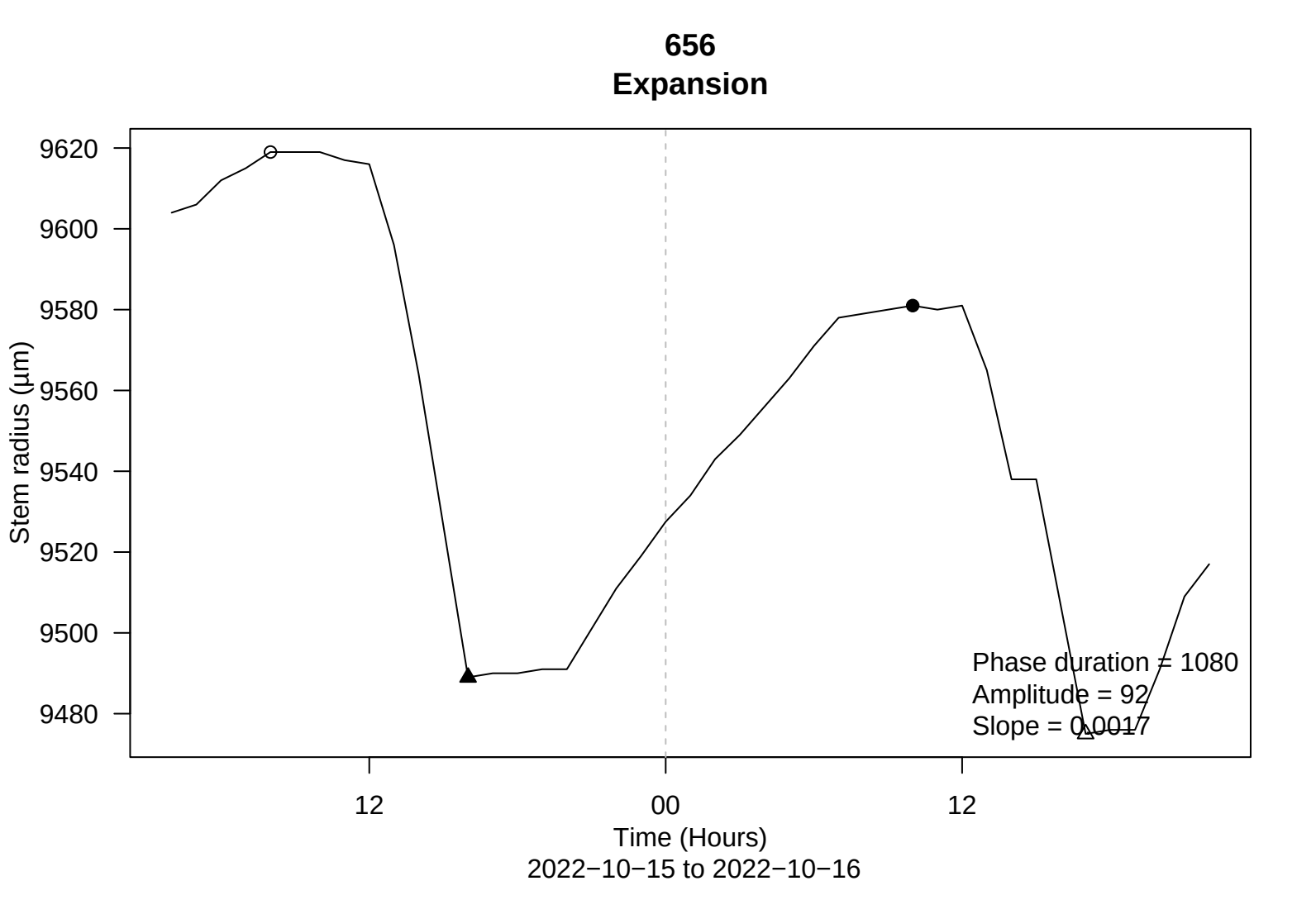

656
Shrinkage
9640
9620
9600
9580
9560
Stem radius (µm)
Phase duration = 600
Amplitude = −95
Slope = −0.0033
00
12
00
Time (Hours)
2022−10−13 to 2022−10−13

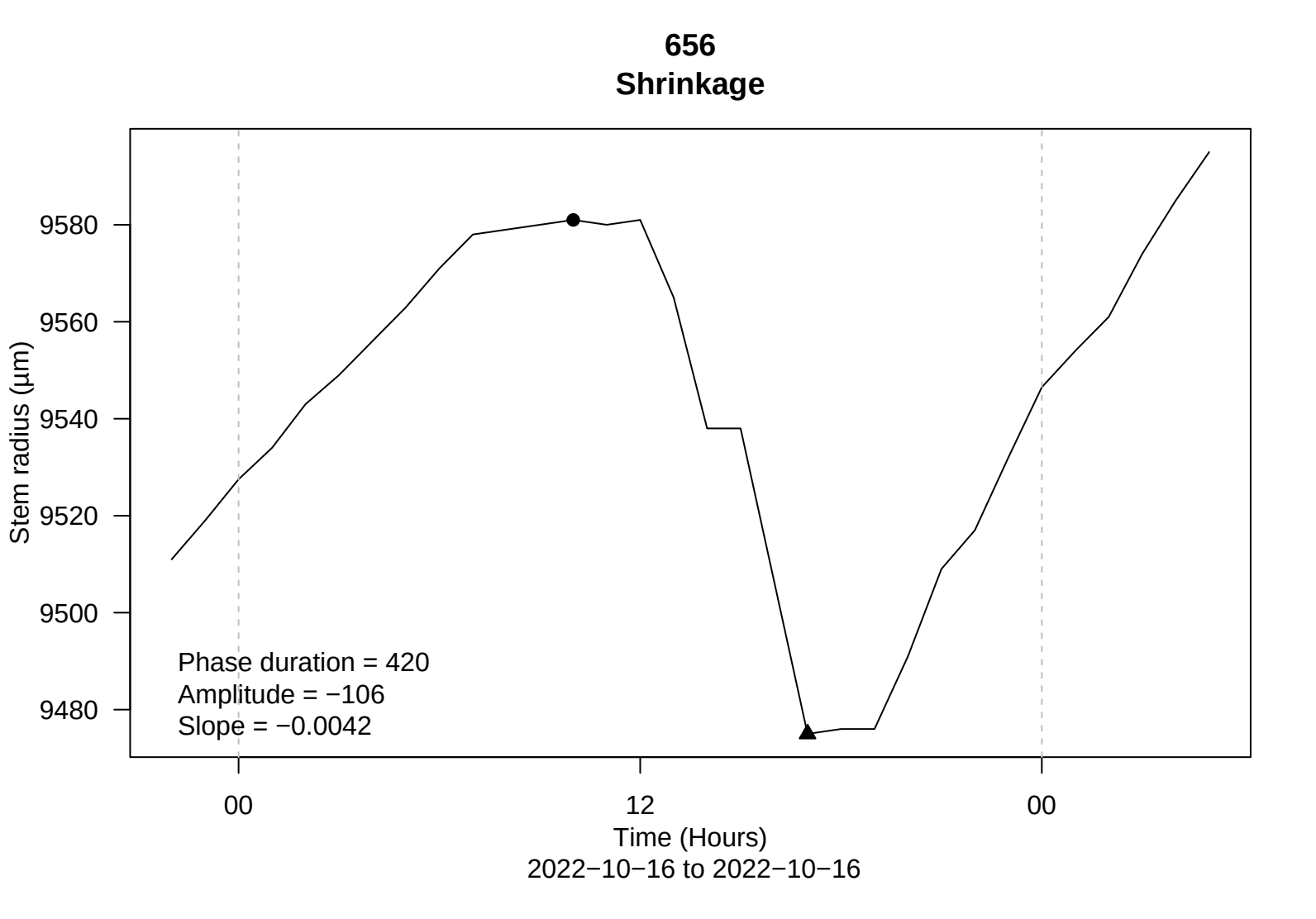

656
Expansion
9640
9620
9600
9580
9560
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−13 to 2022−10−14
Phase duration = 900
Amplitude = 85
Slope = 0.0018

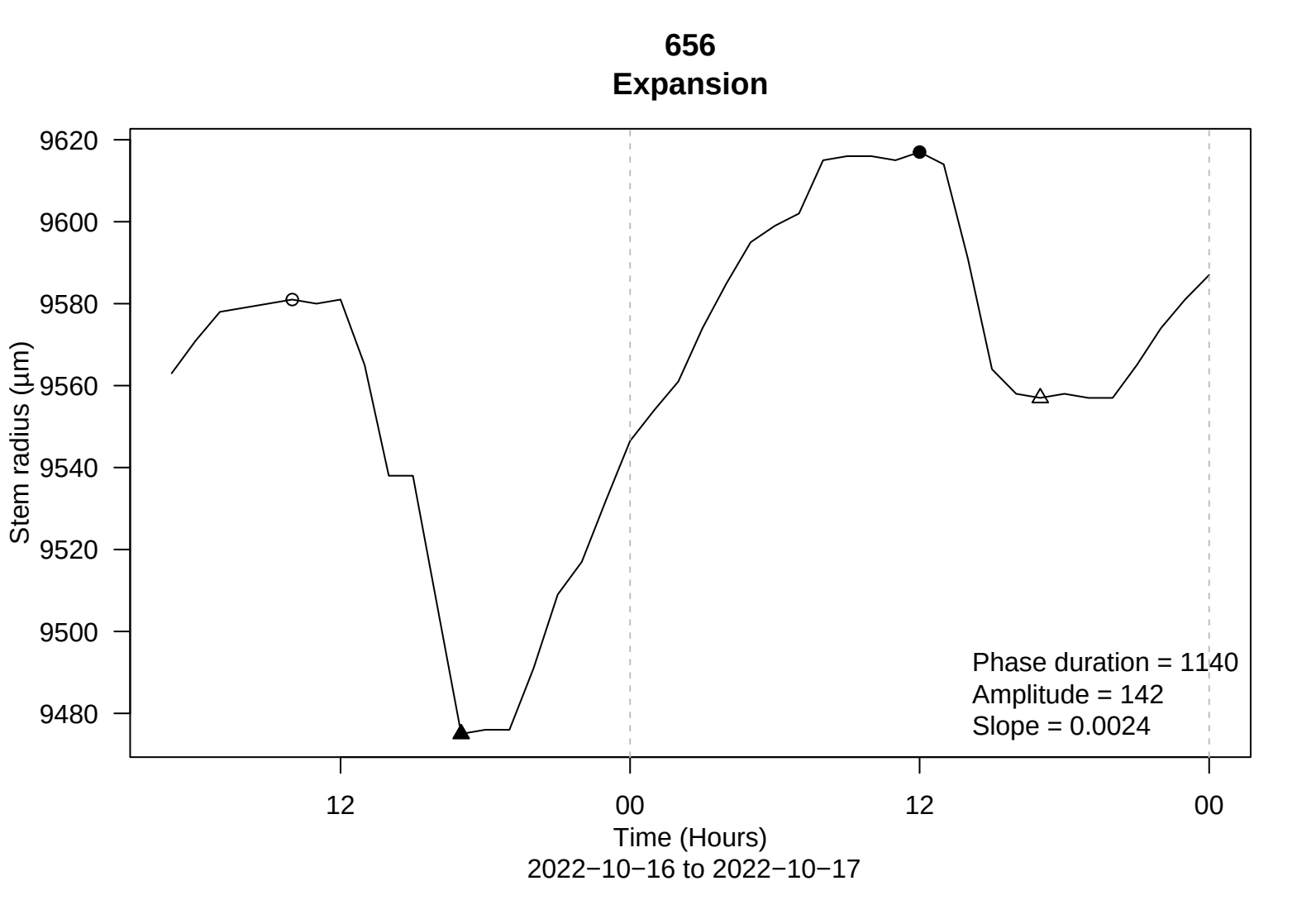

656
Shrinkage
Stem radius (µm)
9620
9600
9580
9560
Phase duration = 420
Amplitude = −85
Slope = −0.0036
00
06
12
18
00
Time (Hours)
2022−10−14 to 2022−10−14

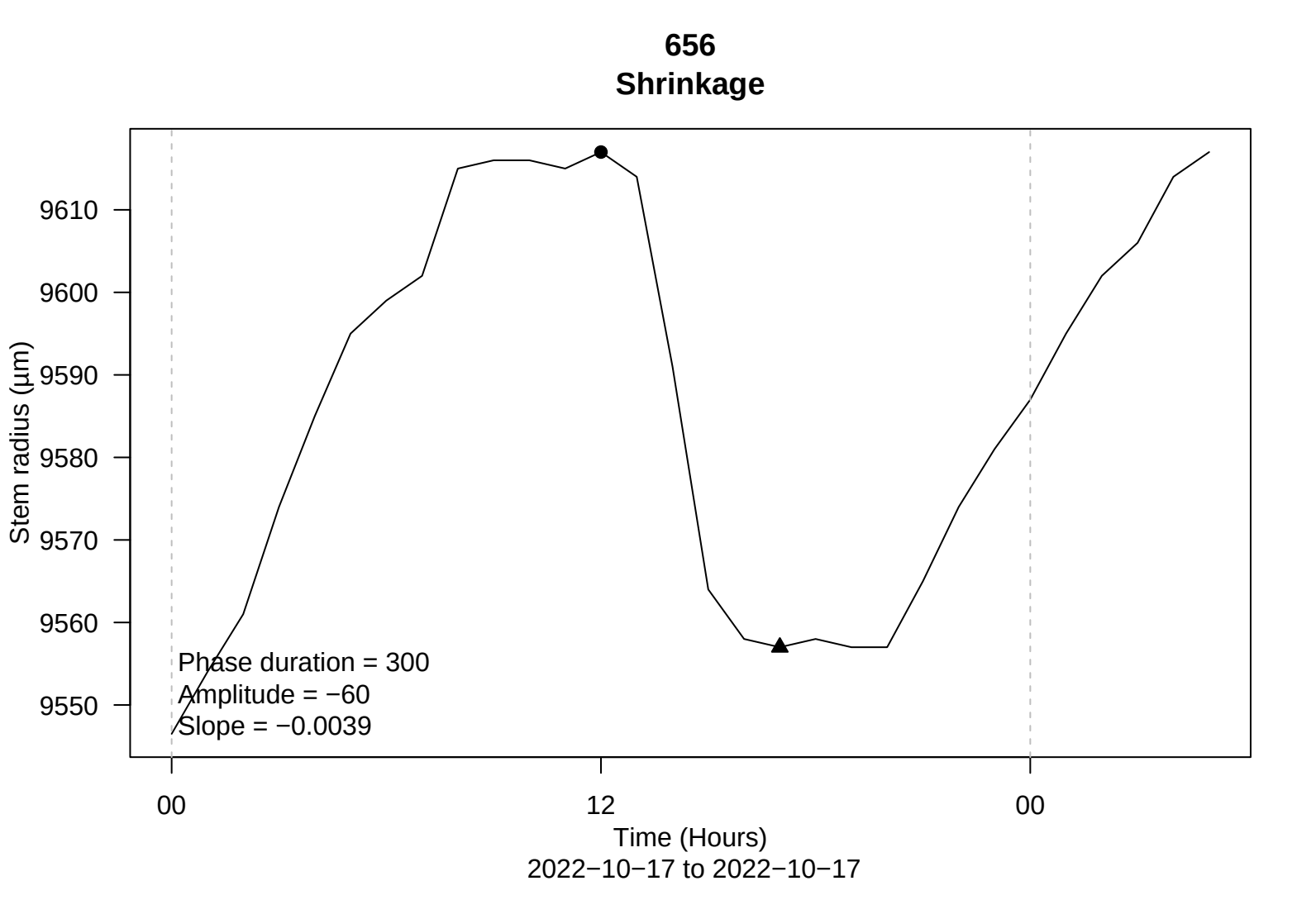

656
Expansion
9600
9550
9500
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−14 to 2022−10−15
Phase duration = 960
Amplitude = 68
Slope = 0.0014

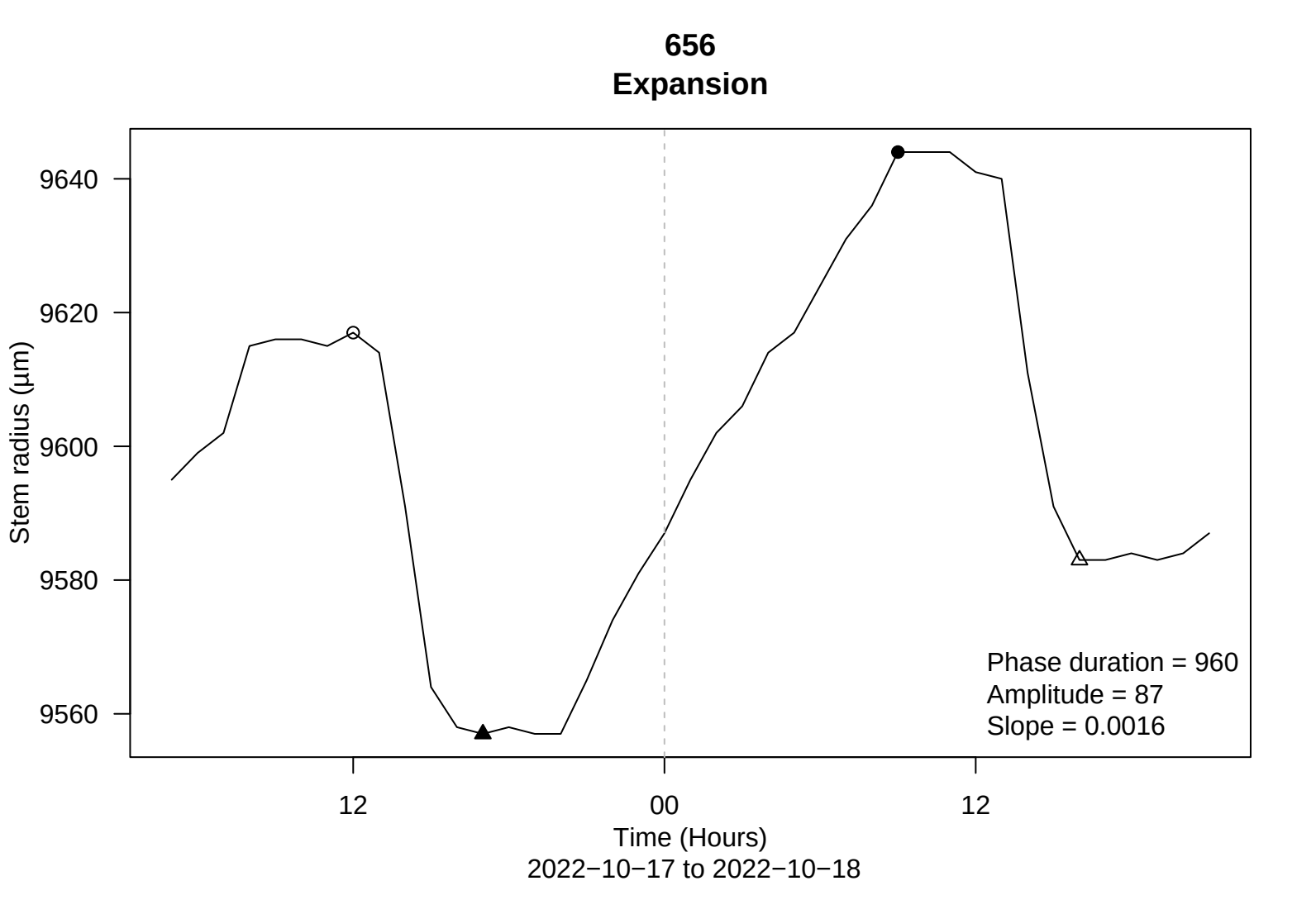

656
Shrinkage
9620
9600
9580
9560
9540
9520
9500
Stem radius (µm)
Phase duration = 480
Amplitude = −130
Slope = −0.0043
00
06
12
18
00
Time (Hours)
2022−10−15 to 2022−10−15

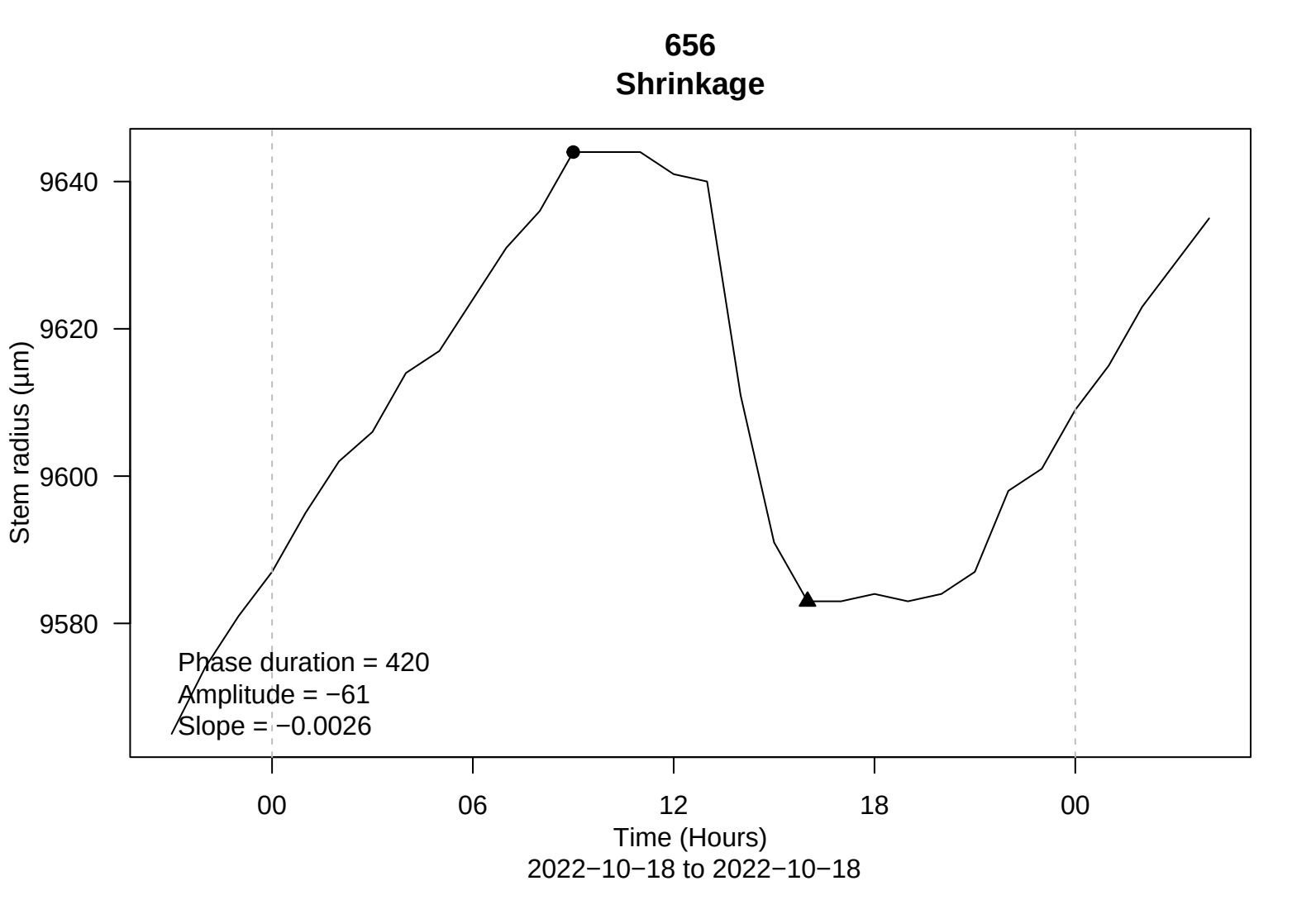

656
Expansion
9620
9600
9580
9560
9540
9520
9500
9480
Stem radius (µm)
Phase duration = 1080
Amplitude = 92
Slope = 0.0017
12
00
12
Time (Hours)
2022−10−15 to 2022−10−16

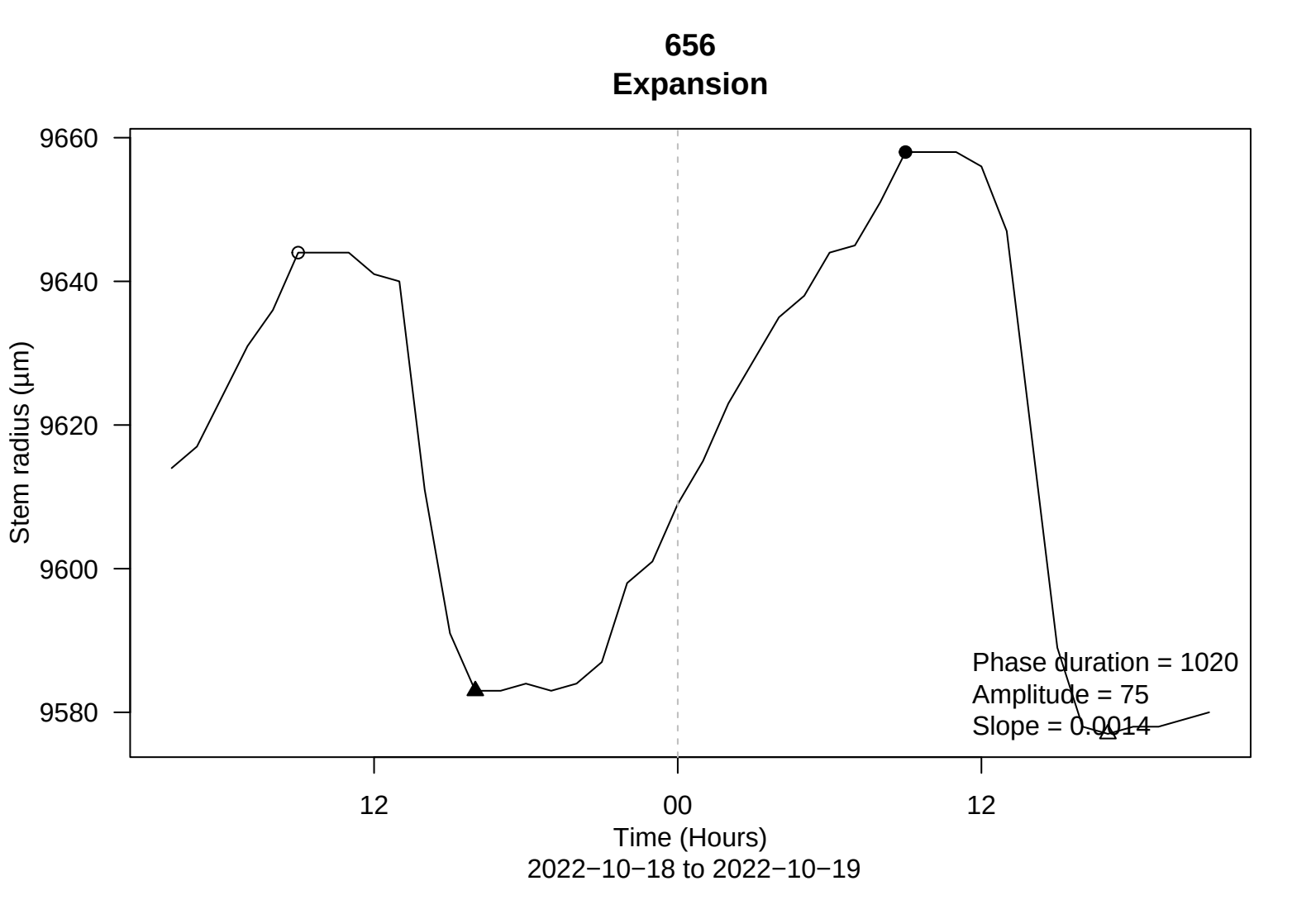

656
Shrinkage
9580
9560
9540
9520
9500
9480
Stem radius (µm)
Phase duration = 420
Amplitude = −106
Slope = −0.0042
00
12
00
Time (Hours)
2022−10−16 to 2022−10−16

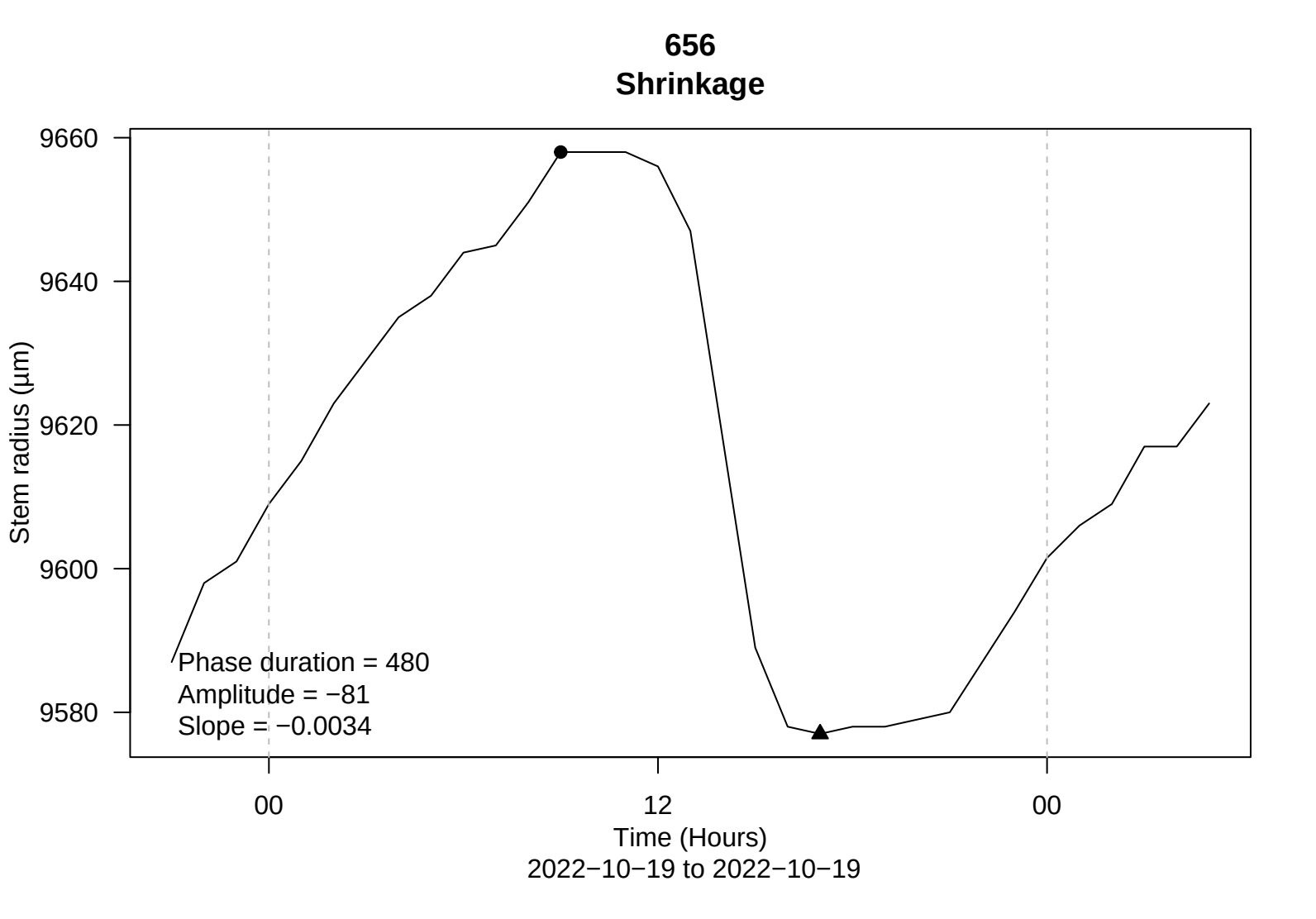

656
Expansion
9620
9600
9580
9560
9540
9520
9500
9480
Stem radius (µm)
Phase duration = 1140
Amplitude = 142
Slope = 0.0024
12
00
12
00
Time (Hours)
2022−10−16 to 2022−10−17

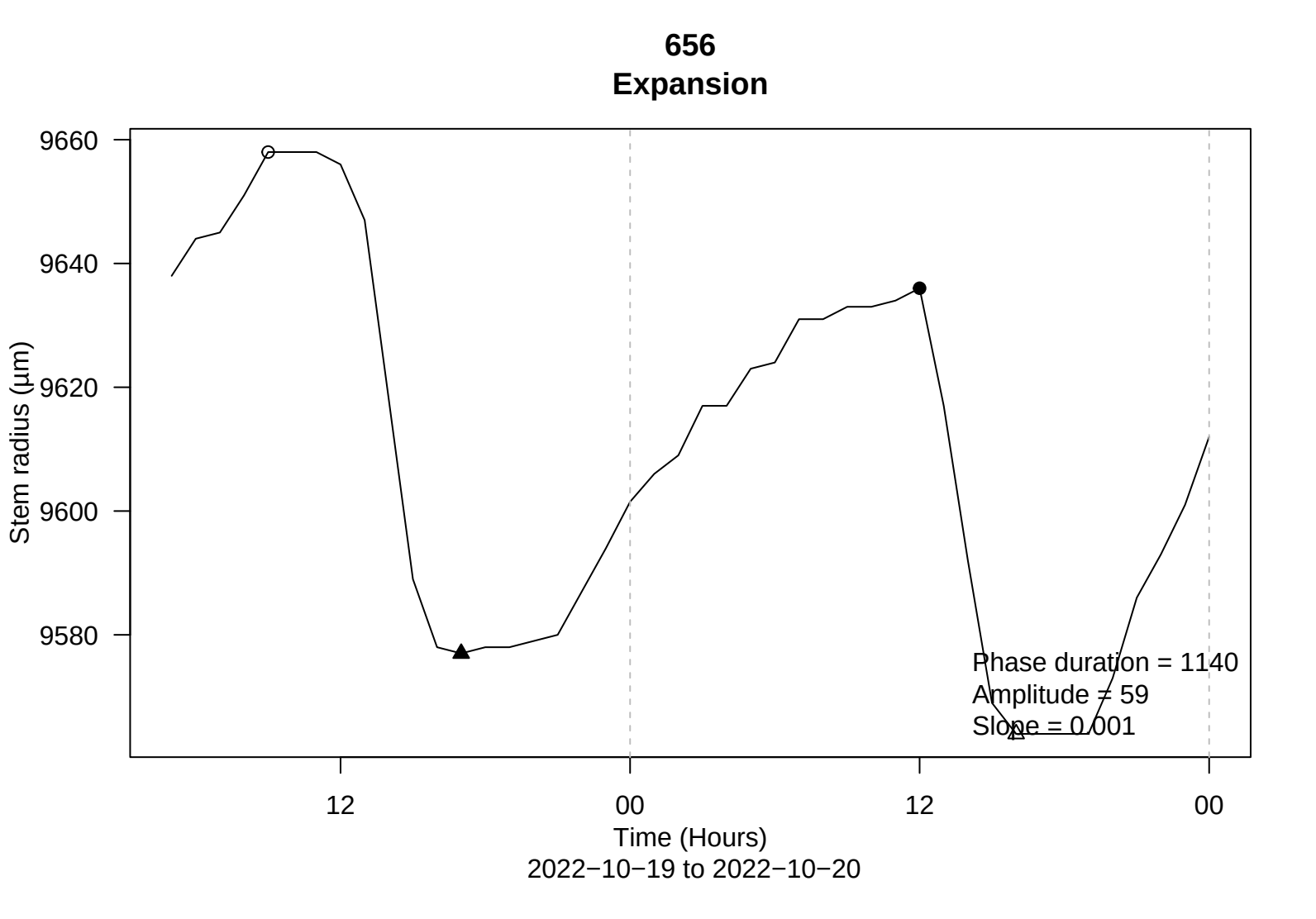

656
Shrinkage
9610
9600
9590
9580
9570
9560
9550
Stem radius (µm)
Phase duration = 300
Amplitude = −60
Slope = −0.0039
00
12
00
Time (Hours)
2022−10−17 to 2022−10−17

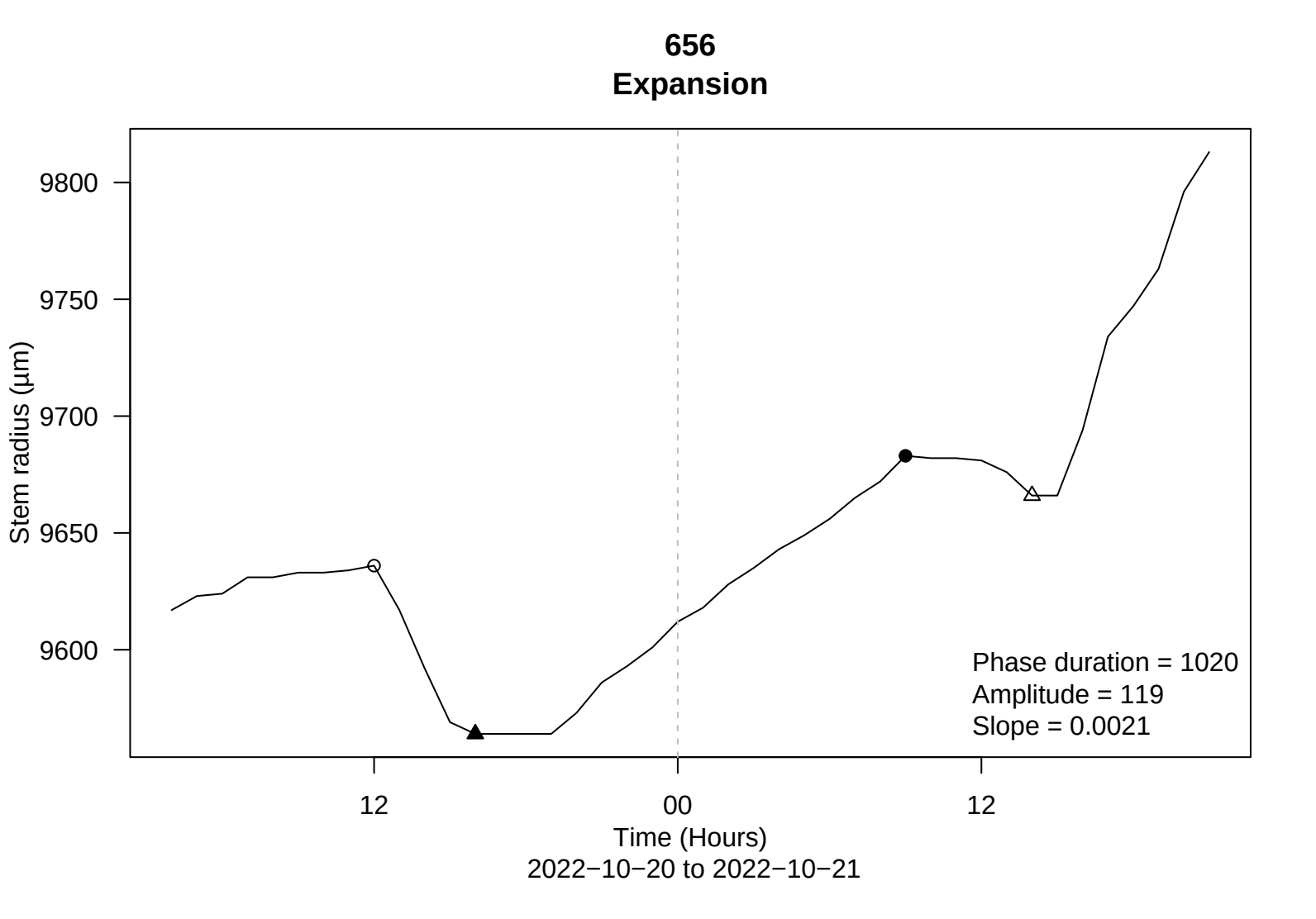

656
Expansion
9640
9620
9600
9580
9560
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−17 to 2022−10−18
Phase duration = 960
Amplitude = 87
Slope = 0.0016

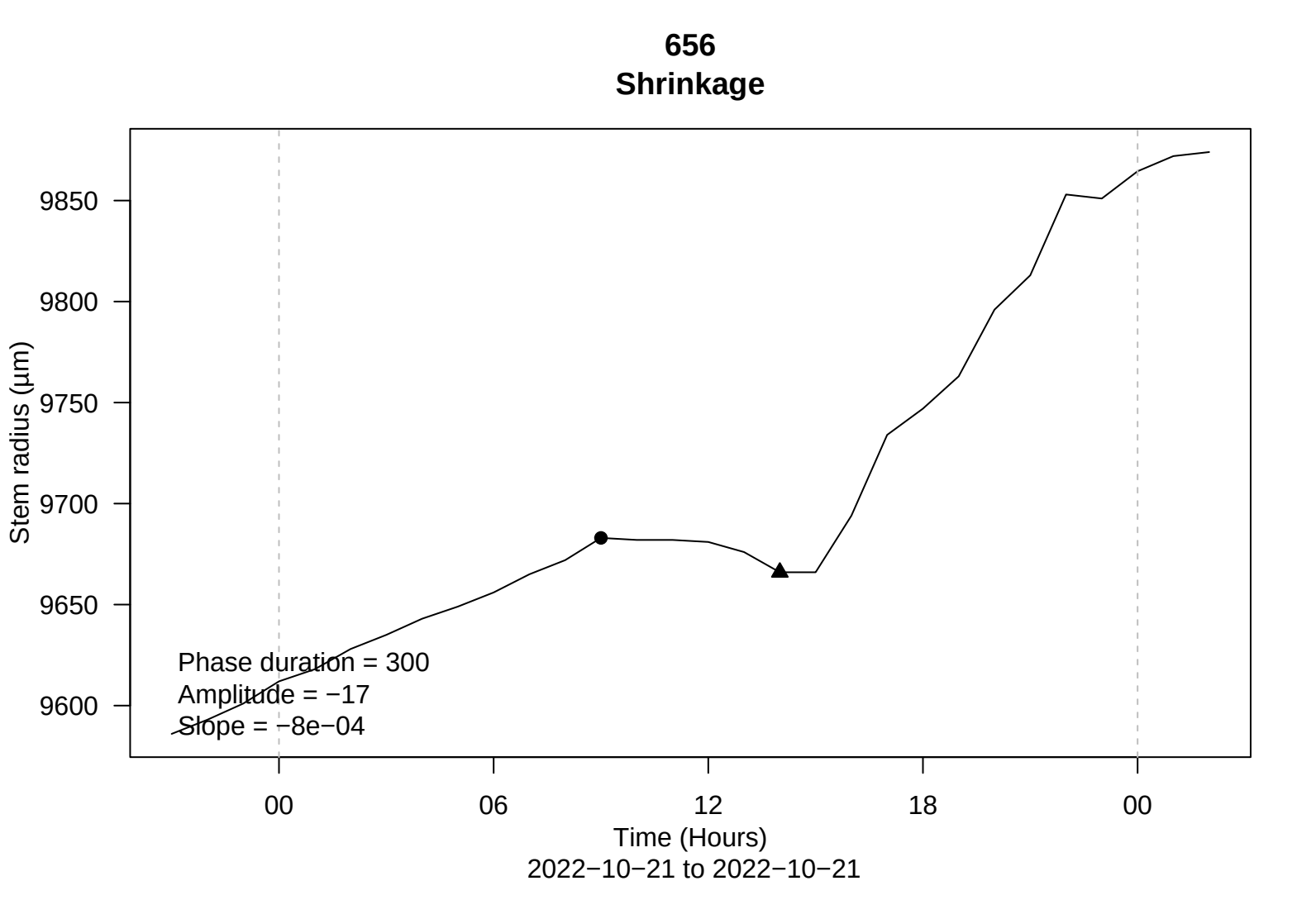

656
Shrinkage
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 420
Amplitude = −61
Slope = −0.0026
00
06
12
18
00
Time (Hours)
2022−10−18 to 2022−10−18

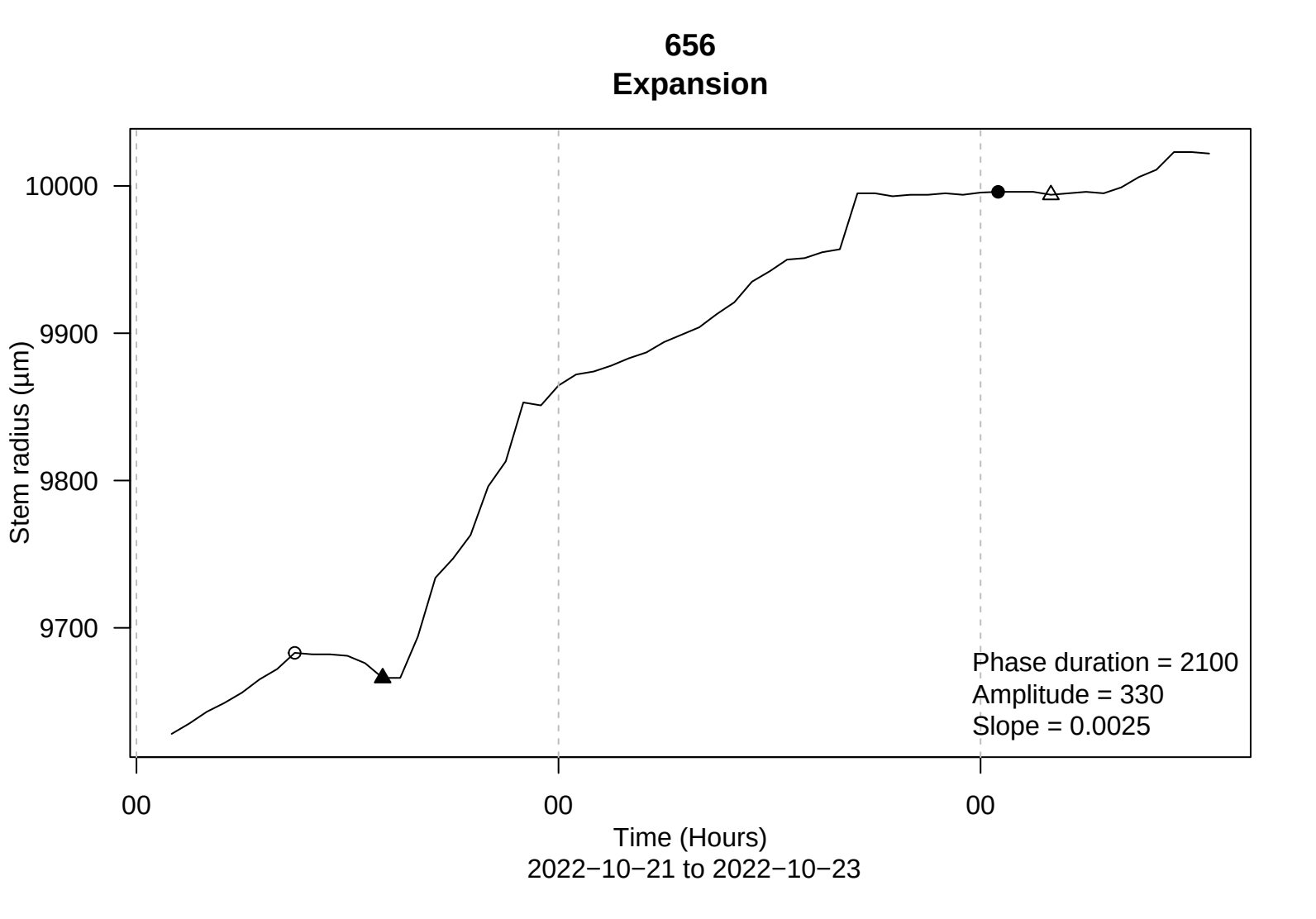

656
Expansion
9660
9640
9620
9600
9580
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−18 to 2022−10−19
Phase duration = 1020
Amplitude = 75
Slope = 0.0014

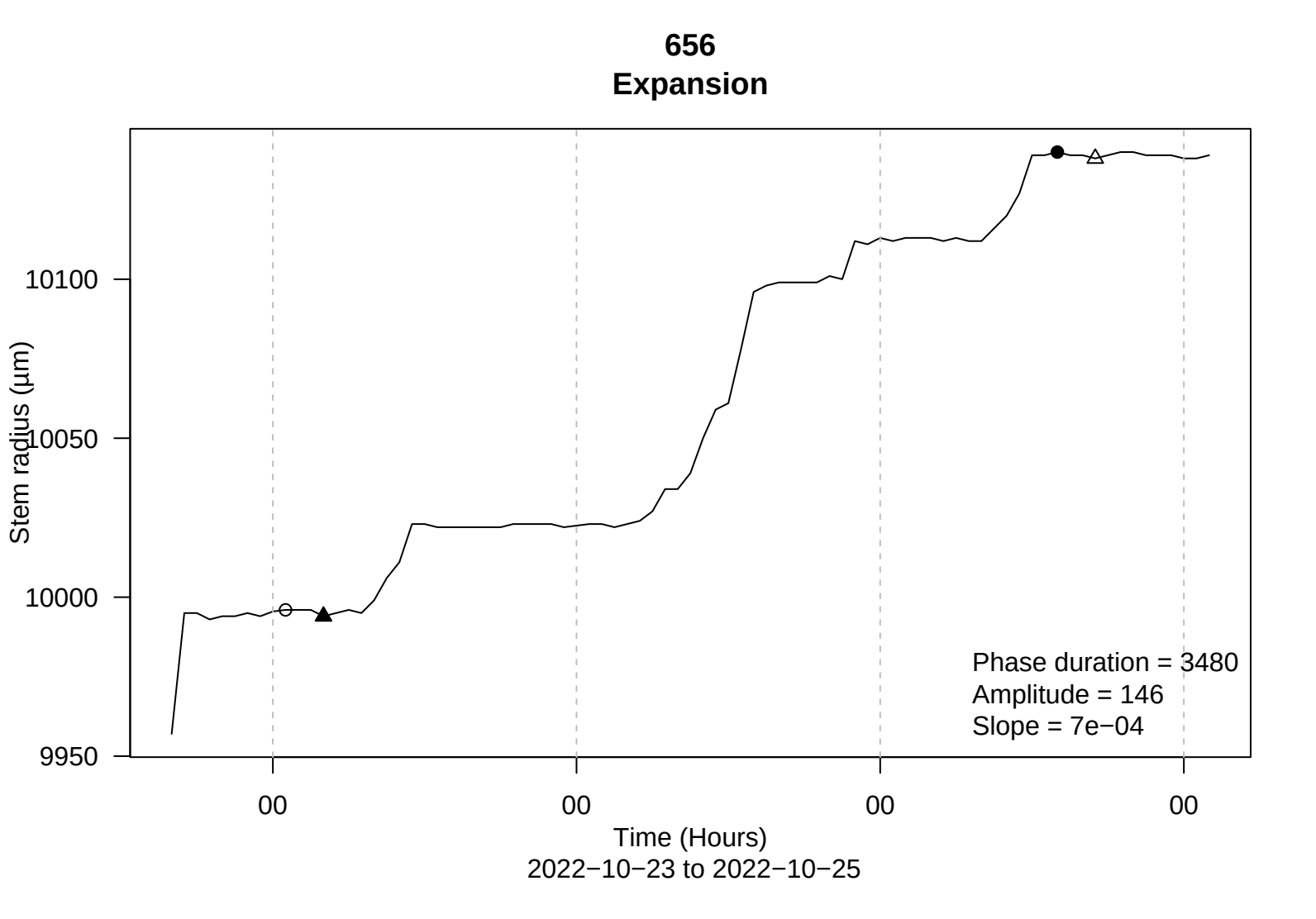

656
Shrinkage
9660
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 480
Amplitude = −81
Slope = −0.0034
00
12
00
Time (Hours)
2022−10−19 to 2022−10−19

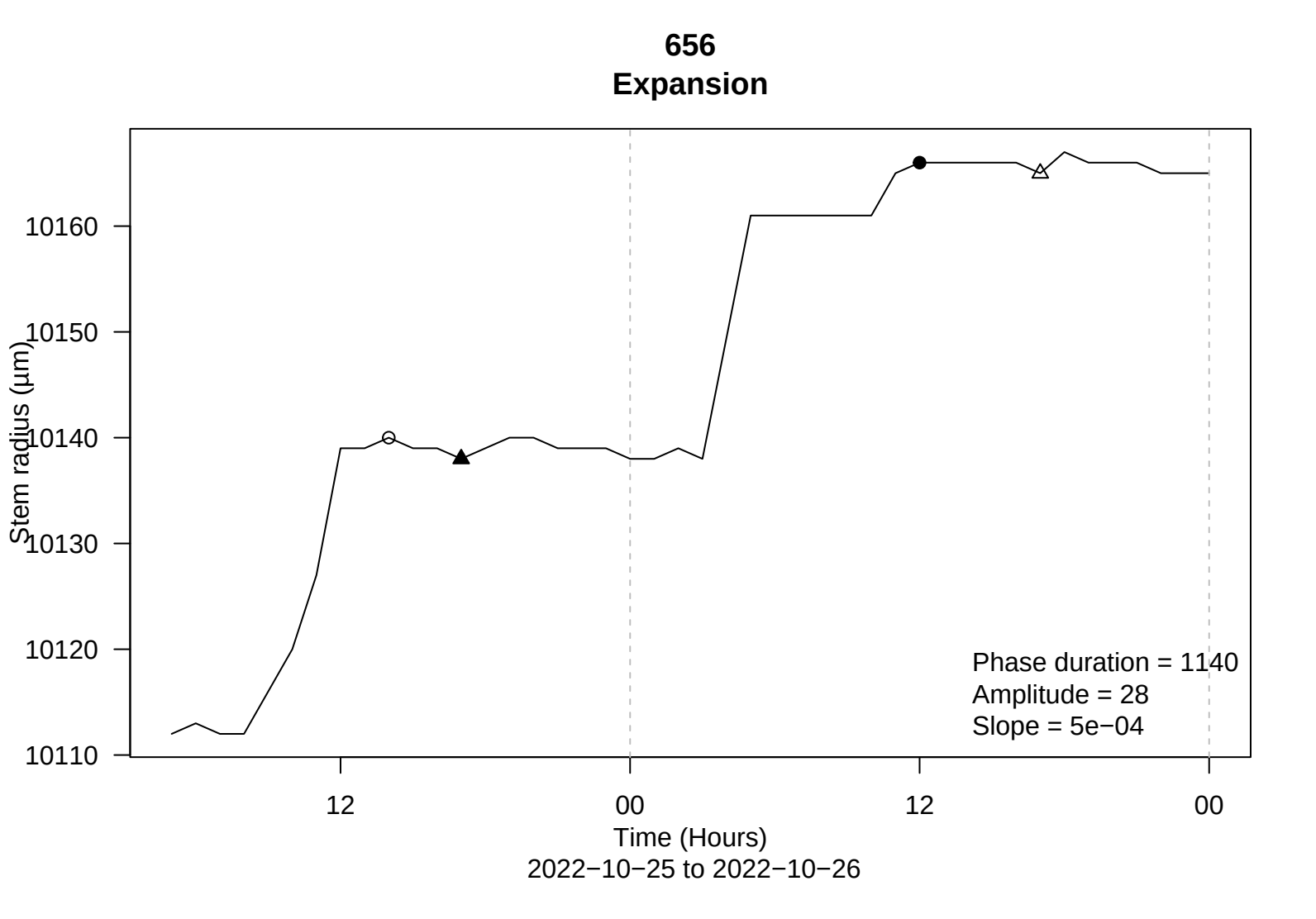

656
Expansion
9660
9640
9620
9600
9580
Stem radius (µm)
Phase duration = 1140
Amplitude = 59
Slope = 0.001
12
00
12
00
Time (Hours)
2022−10−19 to 2022−10−20

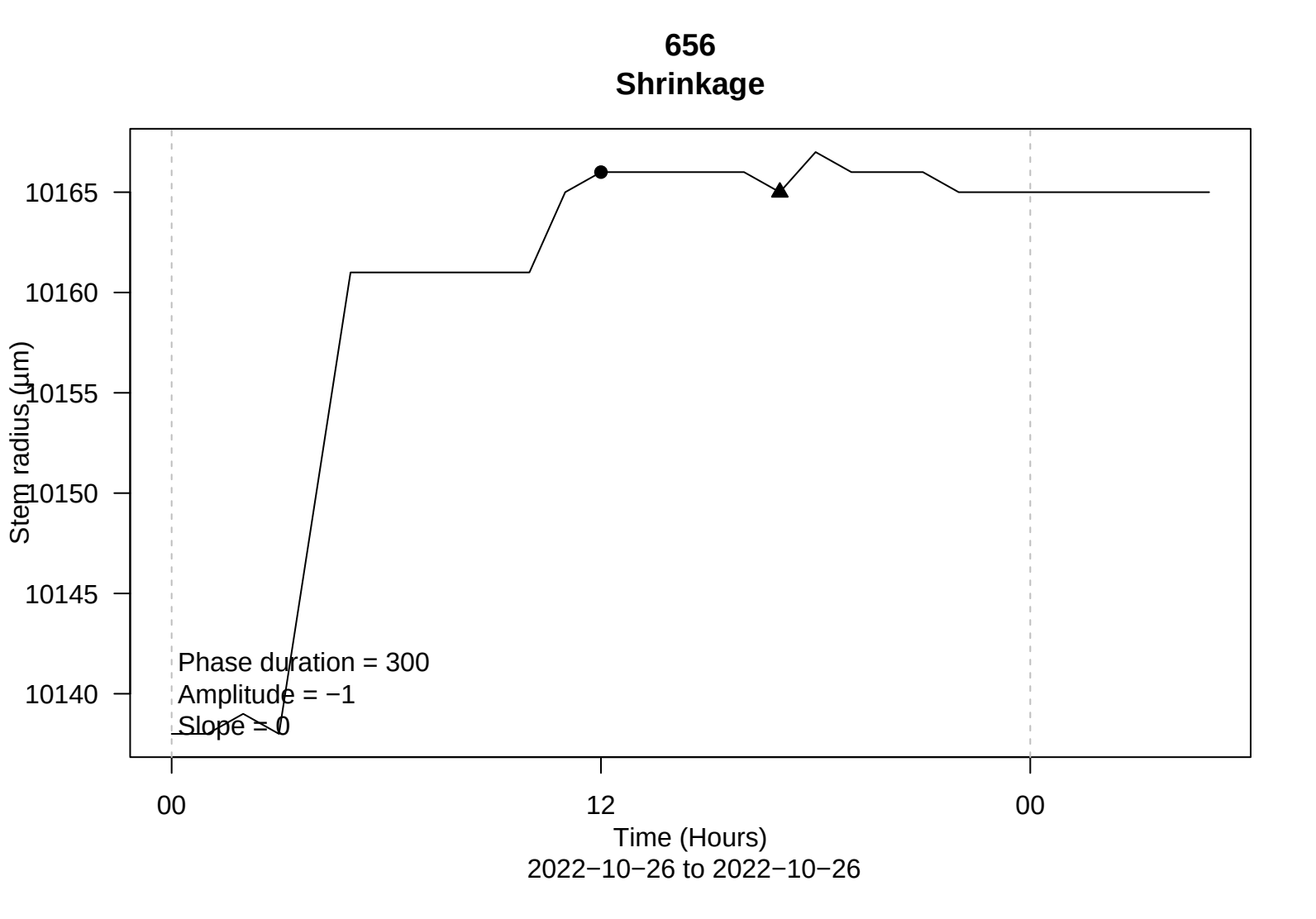

656
Expansion
9800
9750
9700
9650
9600
Stem radius (µm)
Phase duration = 1020
Amplitude = 119
Slope = 0.0021
12
00
12
Time (Hours)
2022−10−20 to 2022−10−21

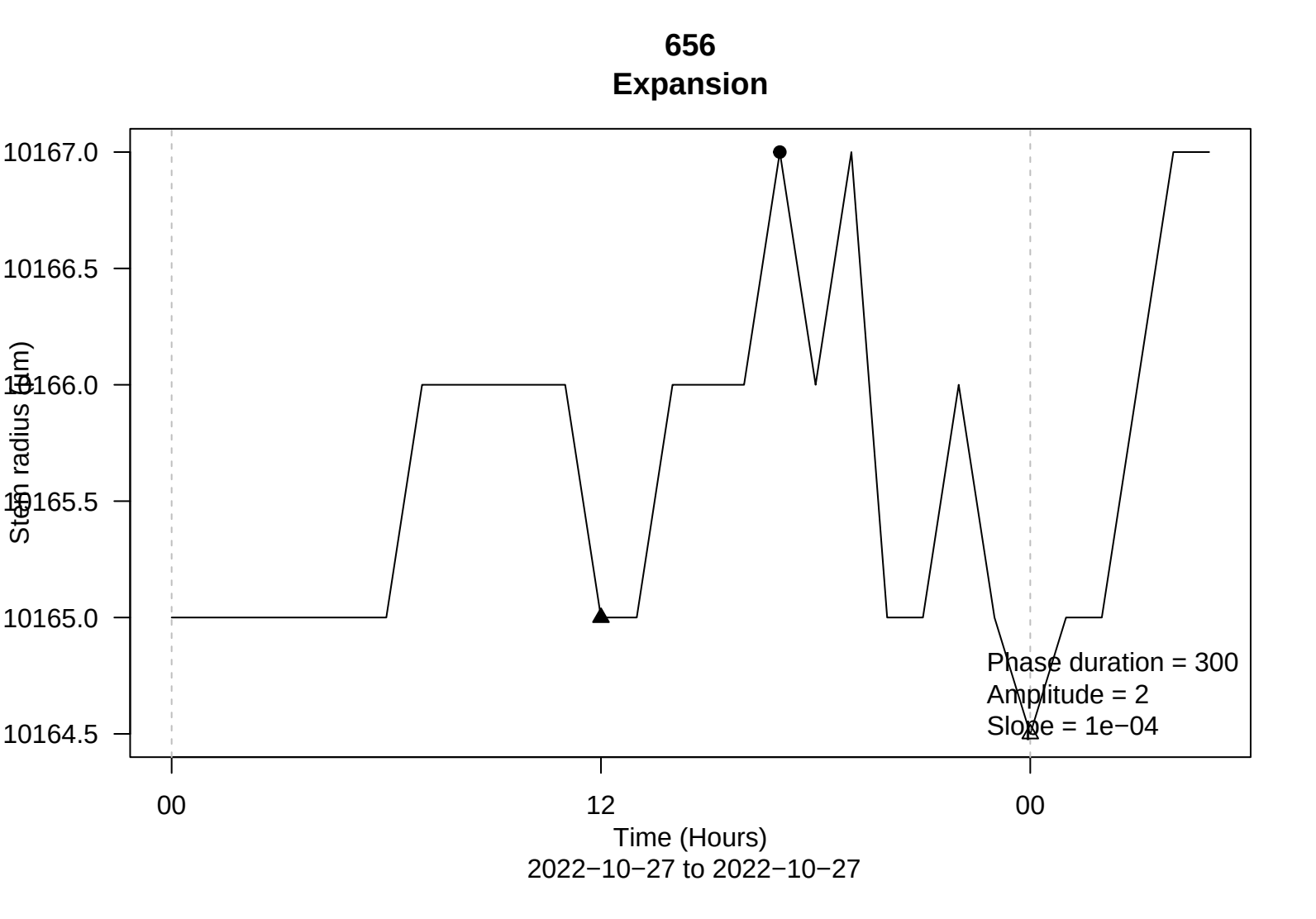

656
Shrinkage
9850
9800
9750
9700
9650
9600
Stem radius (µm)
Phase duration = 300
Amplitude = −17
Slope = −8e−04
00
06
12
18
00
Time (Hours)
2022−10−21 to 2022−10−21

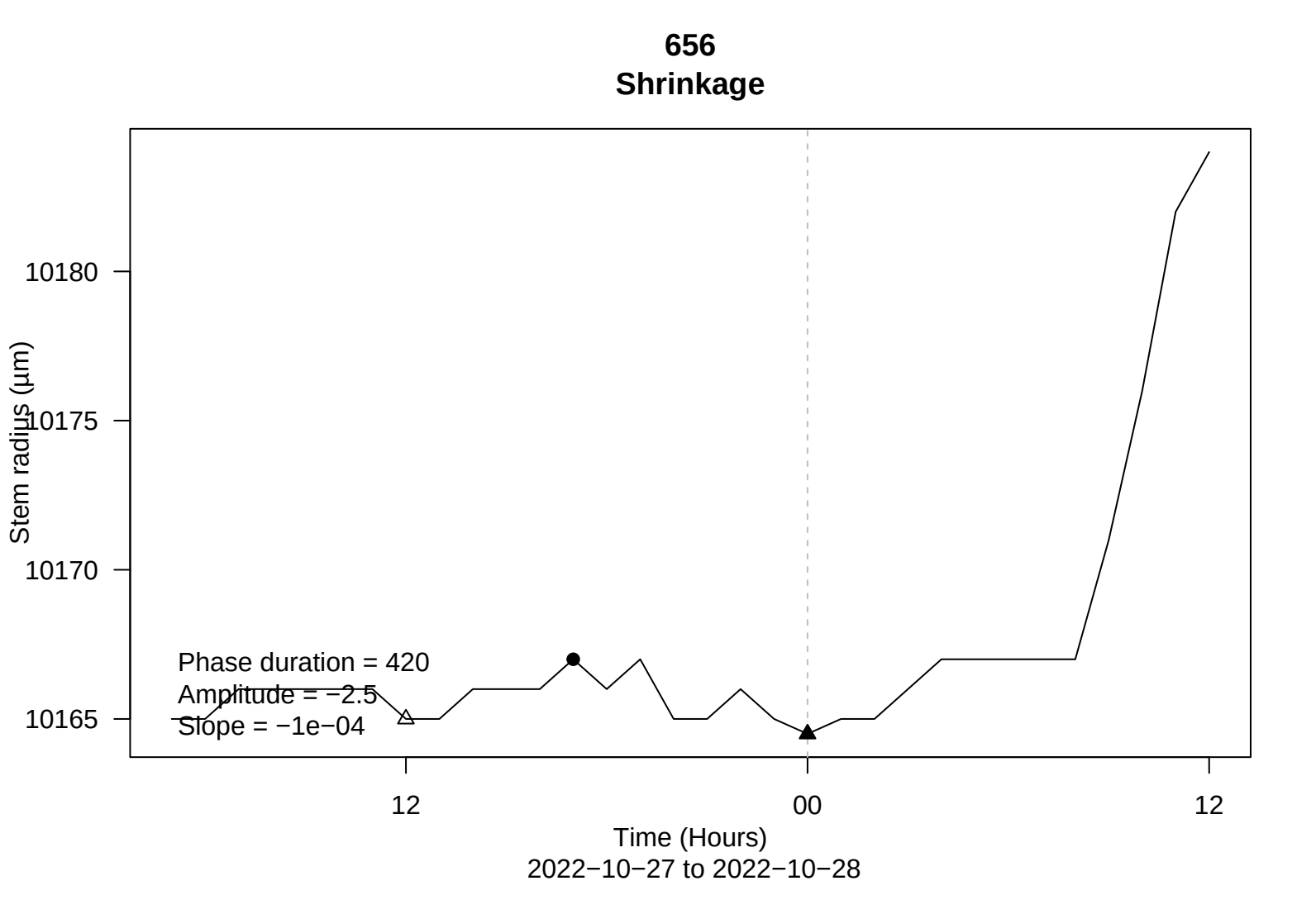

656
Expansion
10000
9900
9800
9700
Stem radius (µm)
Phase duration = 2100
Amplitude = 330
Slope = 0.0025
00
00
00
Time (Hours)
2022−10−21 to 2022−10−23

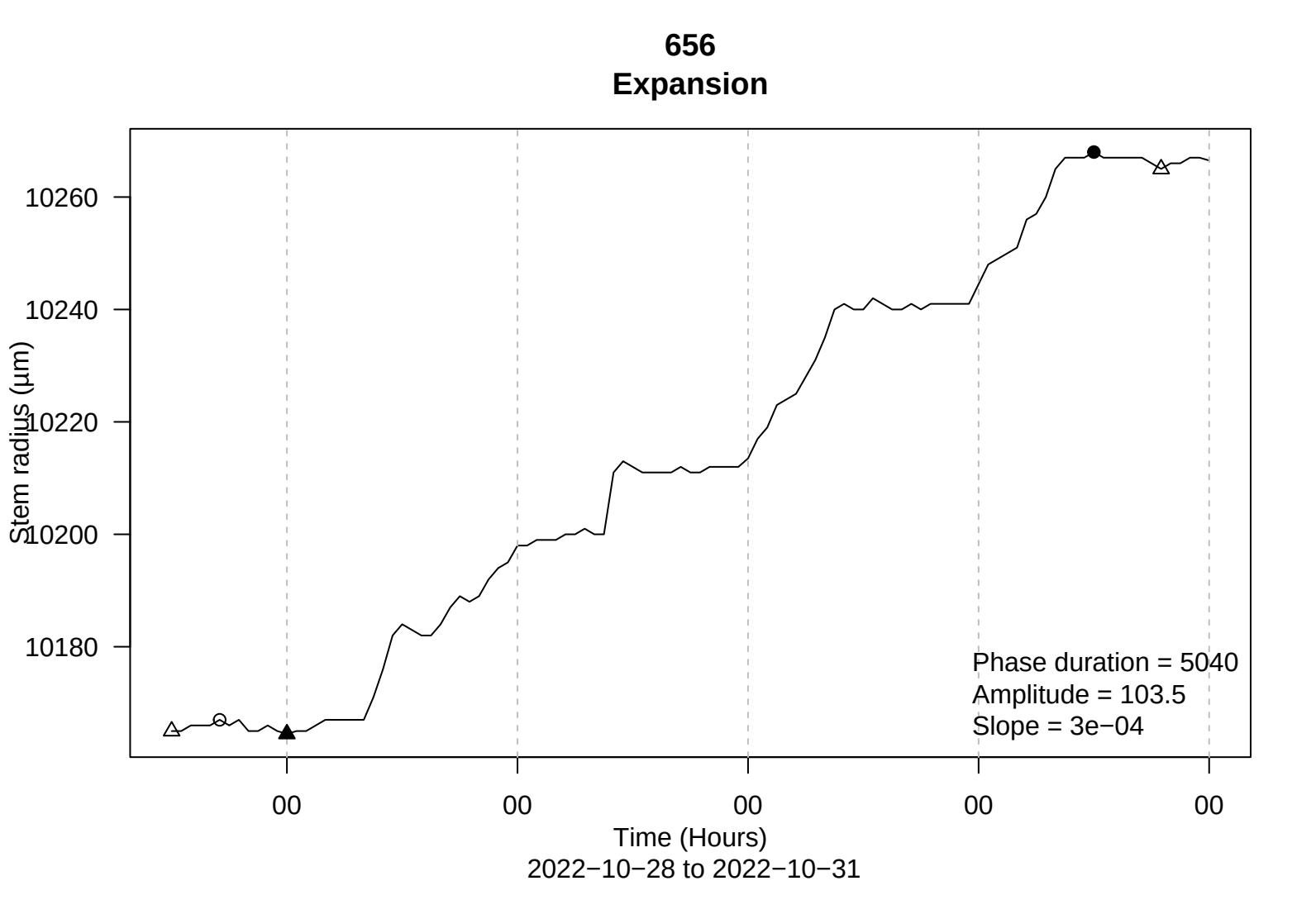

656
Expansion
10100
10050
10000
9950
Stem radius (µm)
00
00
00
00
Time (Hours)
2022−10−23 to 2022−10−25
Phase duration = 3480
Amplitude = 146
Slope = 7e−04

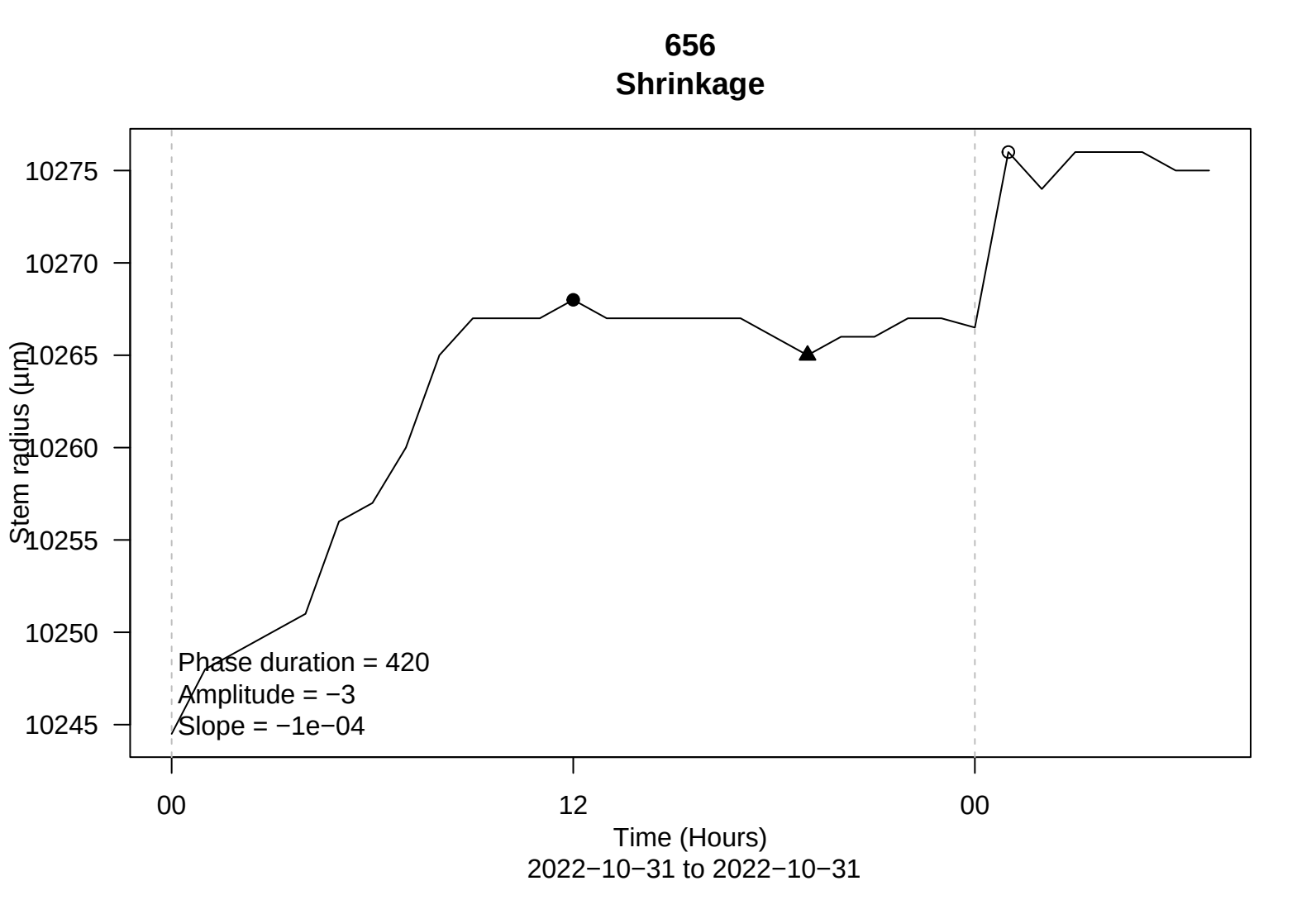

656
Expansion
10160
10150
10140
10130
10120
10110
Stem radius (µm)
Phase duration = 1140
Amplitude = 28
Slope = 5e−04
12
00
12
00
Time (Hours)
2022−10−25 to 2022−10−26

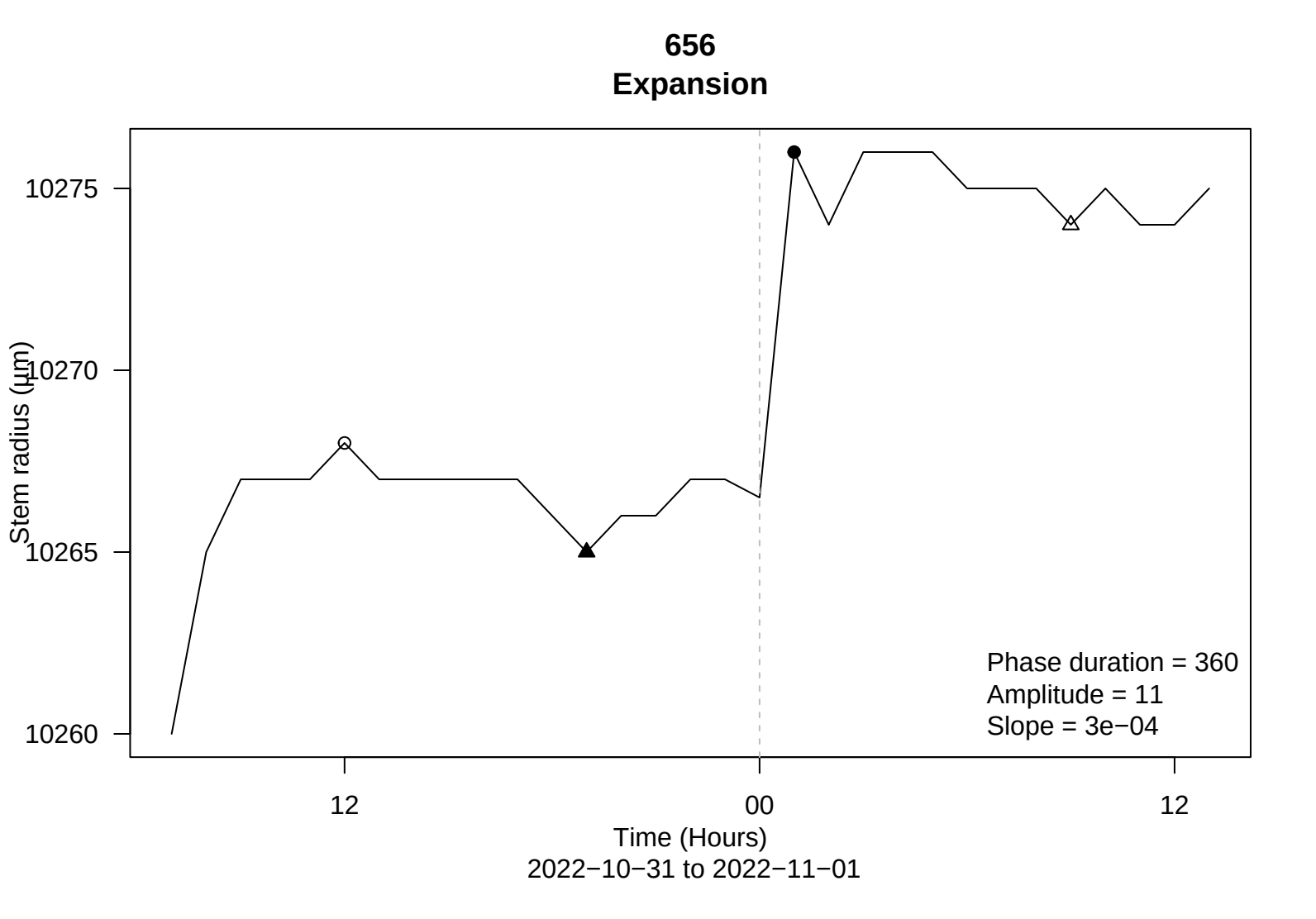

656
Shrinkage
10165
10160
10155
10150
10145
10140
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2022−10−26 to 2022−10−26

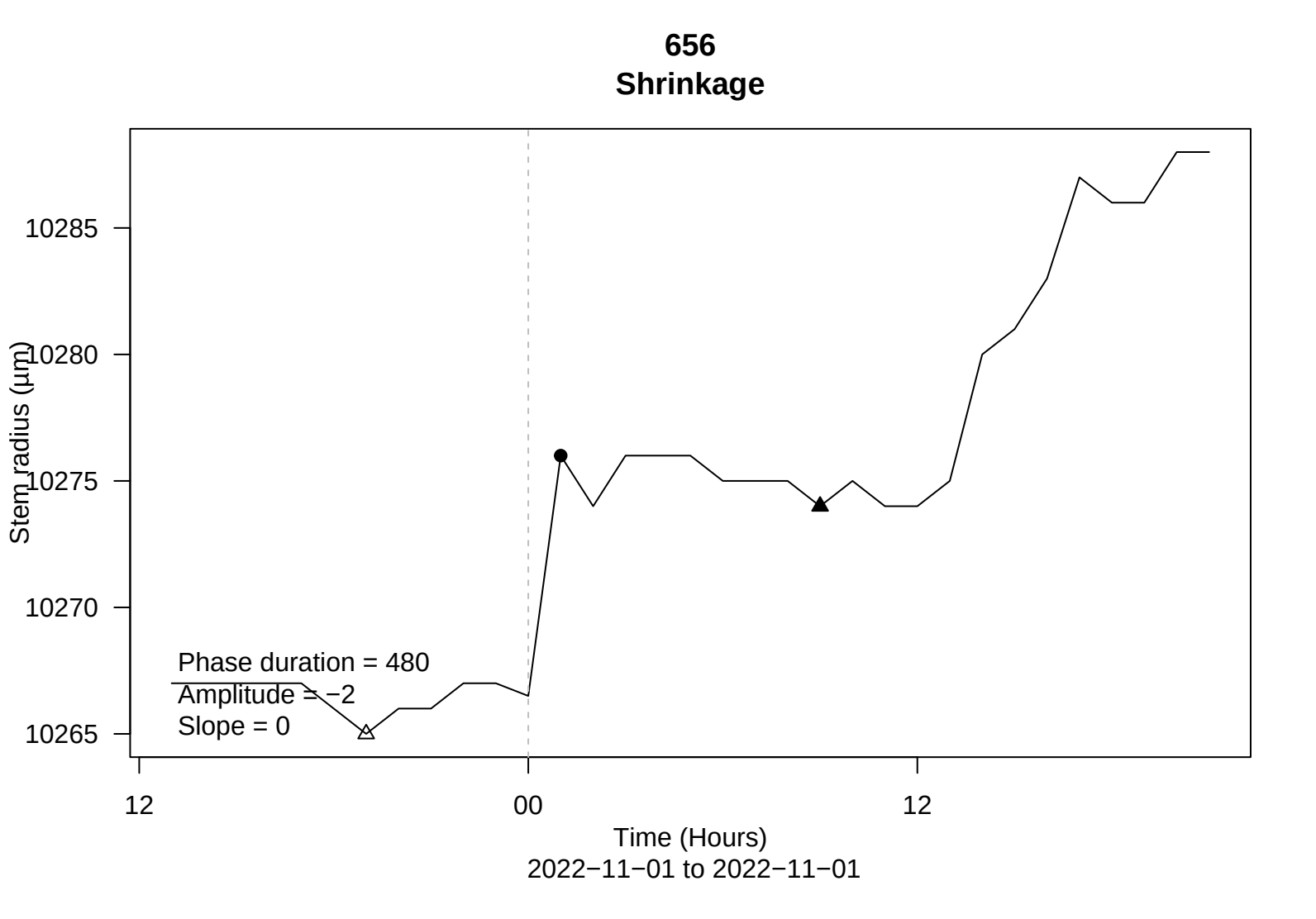

656
Expansion
10167.0
10166.5
10166.0
10165.5
10165.0
10164.5
Stem radius (µm)
Phase duration = 300
Amplitude = 2
Slope = 1e−04
00
12
00
Time (Hours)
2022−10−27 to 2022−10−27

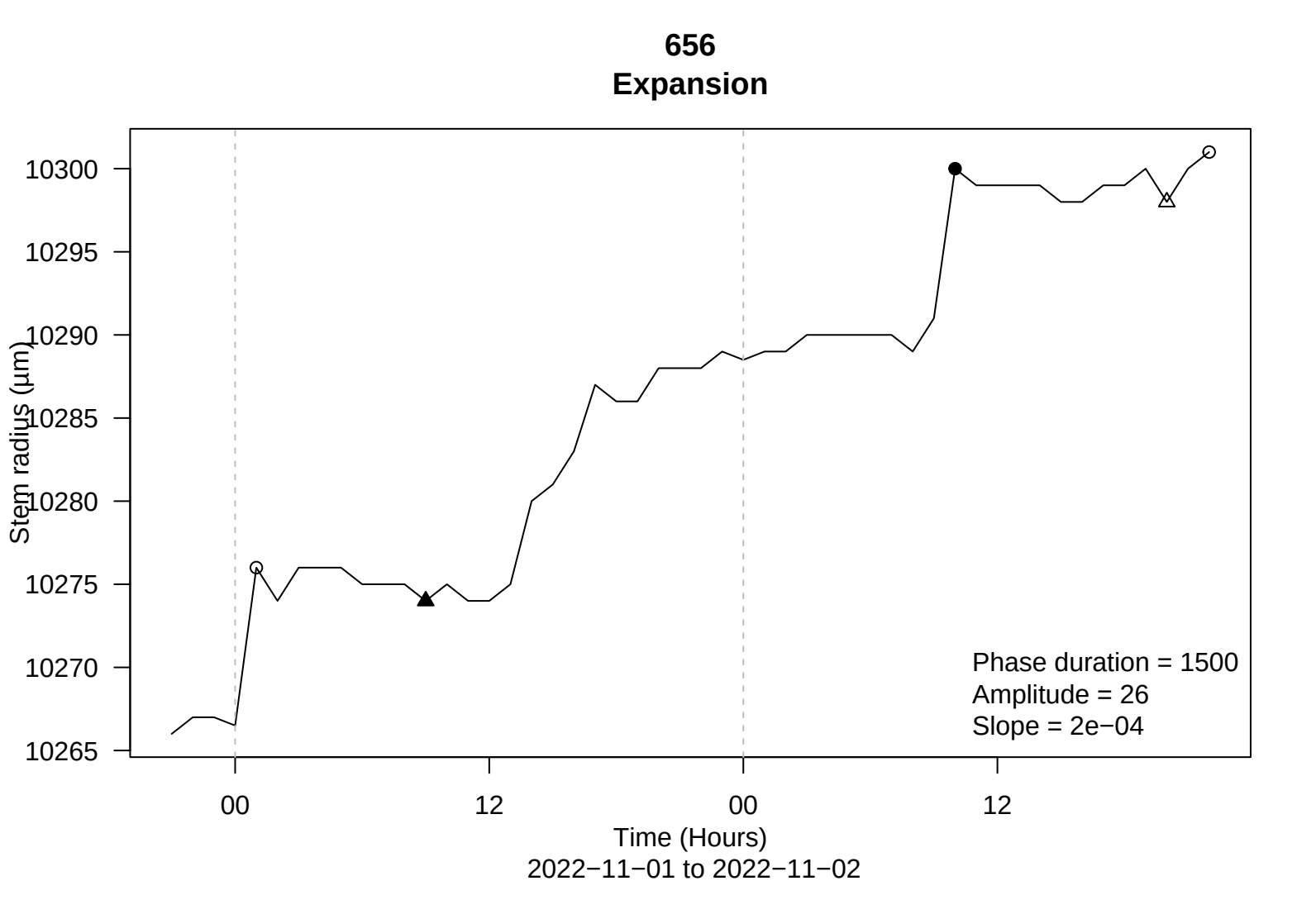

656
Shrinkage
Stem radius (µm)
10180
10175
10170
10165
Phase duration = 420
Amplitude = −2.5
Slope = −1e−04
12
00
12
Time (Hours)
2022−10−27 to 2022−10−28

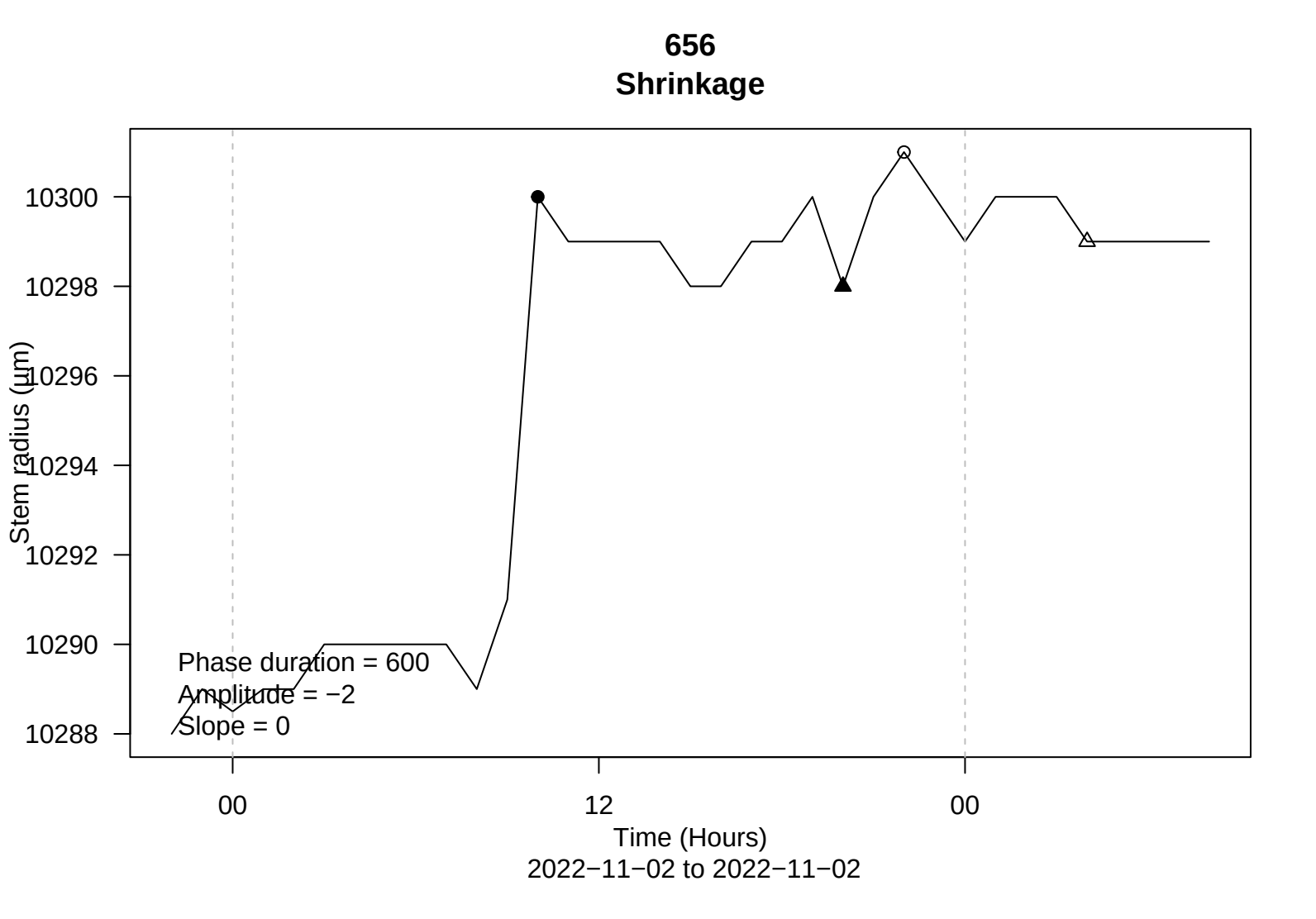

656
Expansion
10260
10240
10220
10200
10180
Stem radius (µm)
Phase duration = 5040
Amplitude = 103.5
Slope = 3e−04
00
00
00
00
00
Time (Hours)
2022−10−28 to 2022−10−31

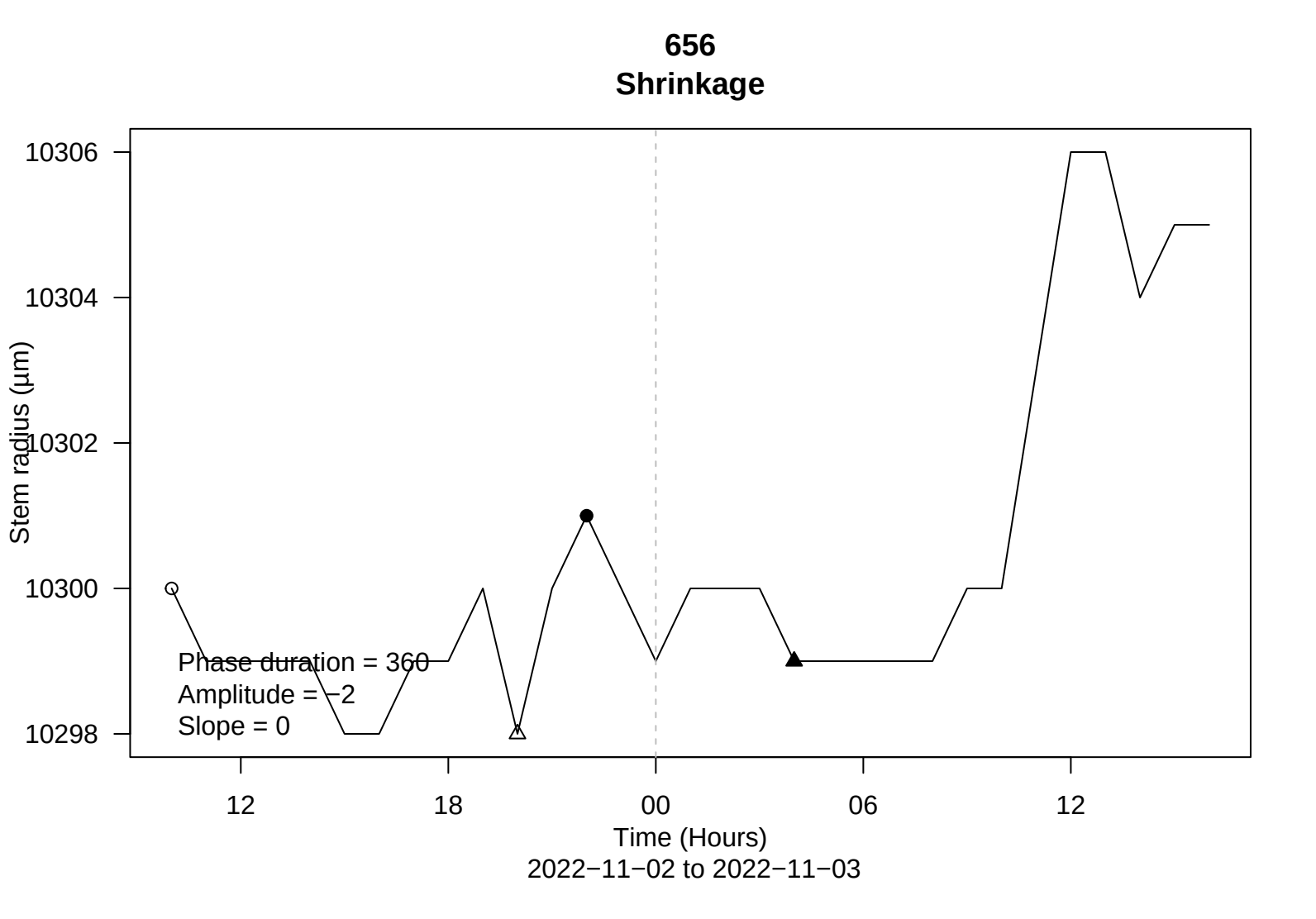

656
Shrinkage
10275
10270
10265
10260
10255
10250
10245
Stem radius (µm)
Phase duration = 420
Amplitude = −3
Slope = −1e−04
00
12
00
Time (Hours)
2022−10−31 to 2022−10−31

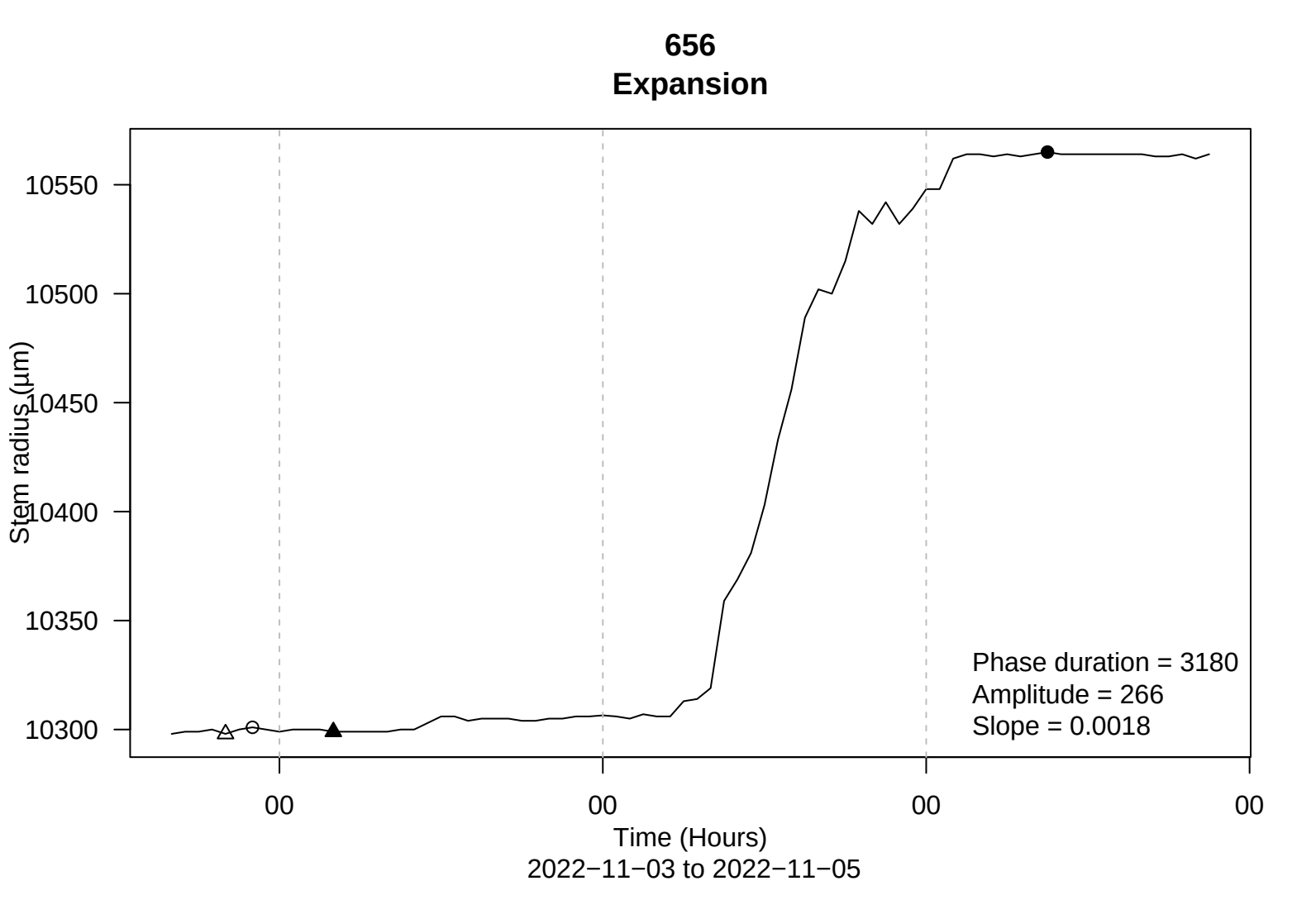

656
Expansion
10275
10270
10265
10260
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−31 to 2022−11−01
Phase duration = 360
Amplitude = 11
Slope = 3e−04

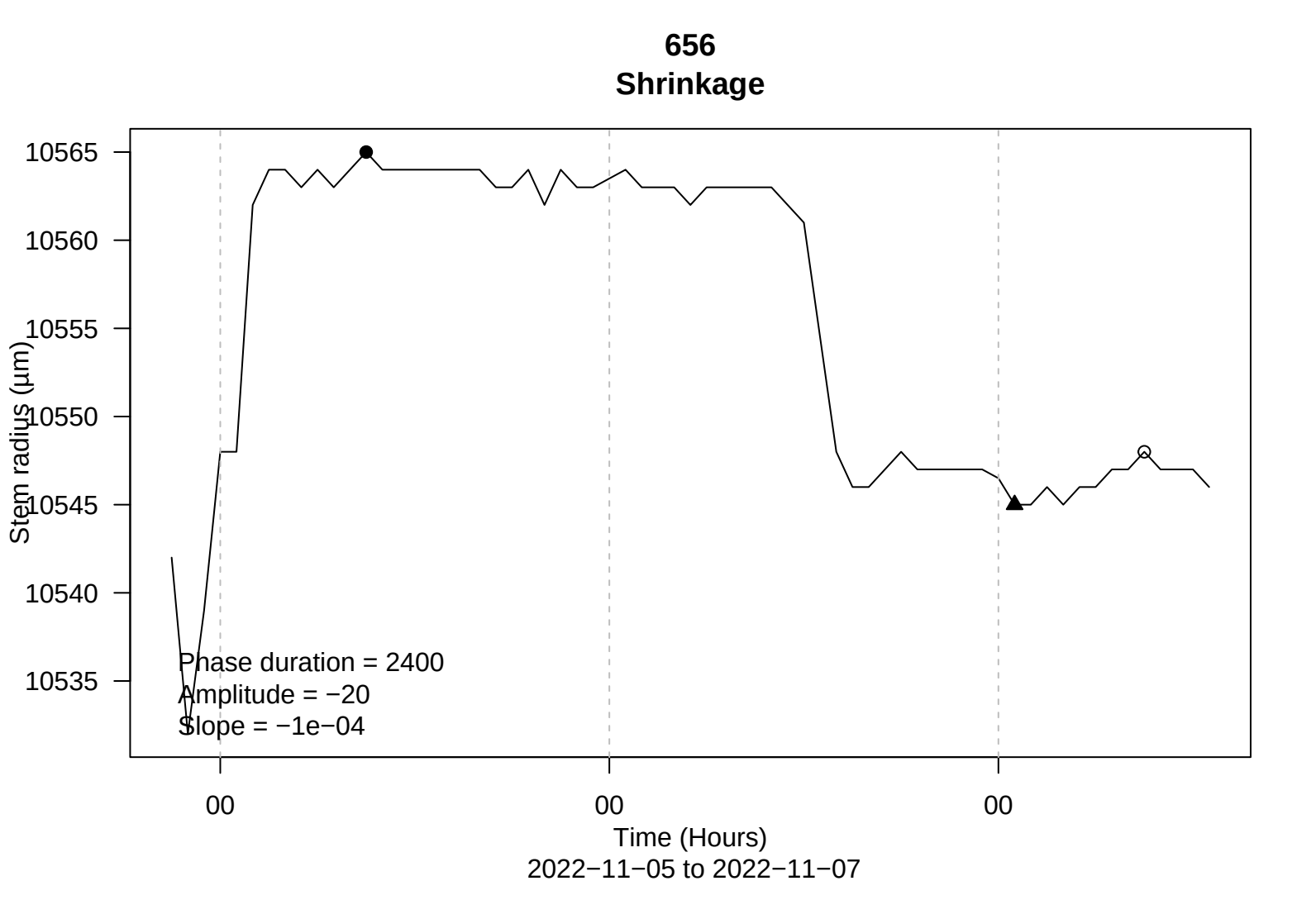

656
Shrinkage
10285
10280
10275
10270
10265
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2022−11−01 to 2022−11−01

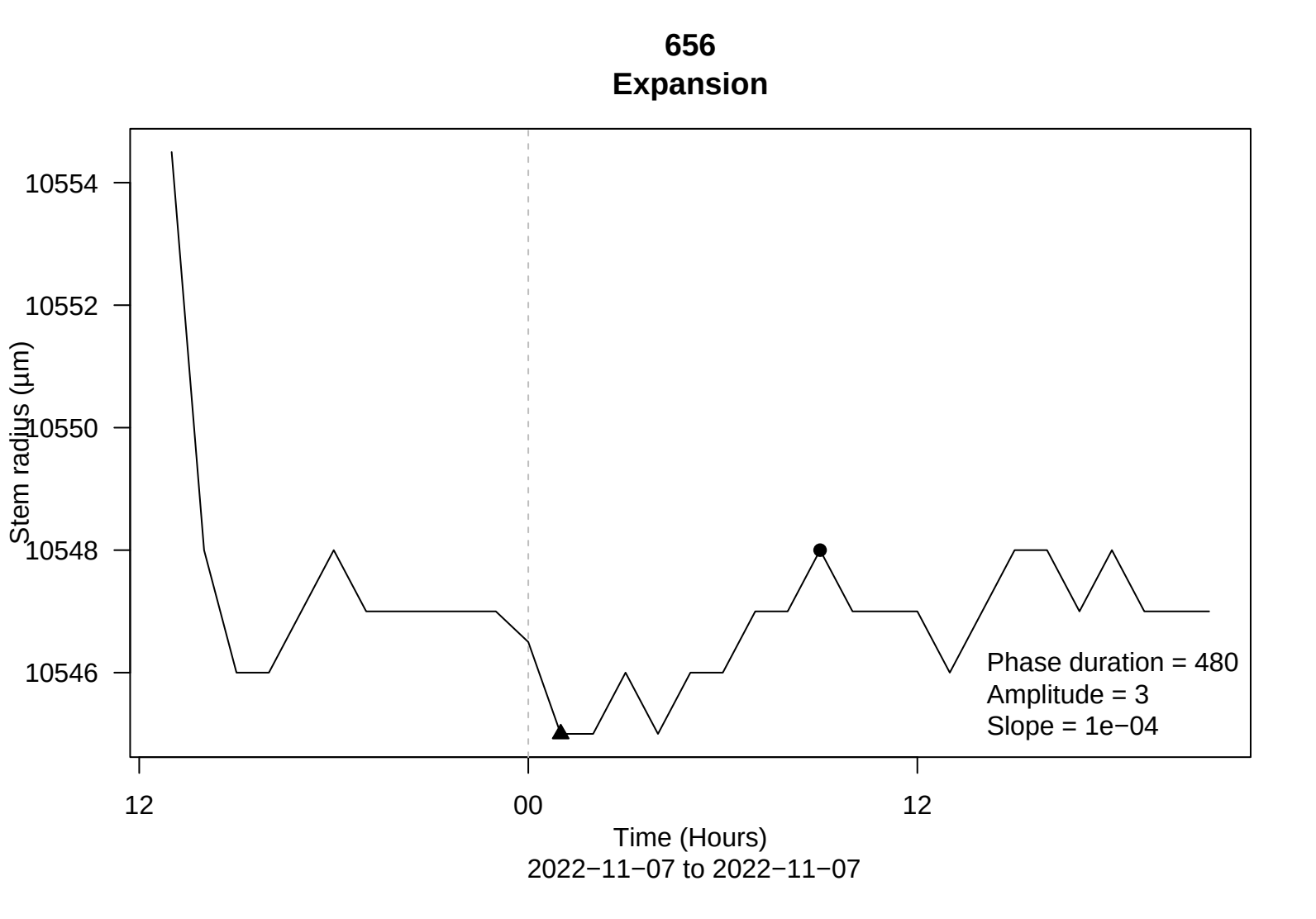

656
Expansion
10300
10295
10290
10285
10280
10275
10270
10265
Stem radius (µm)
00
12
00
12
Time (Hours)
2022−11−01 to 2022−11−02
Phase duration = 1500
Amplitude = 26
Slope = 2e−04

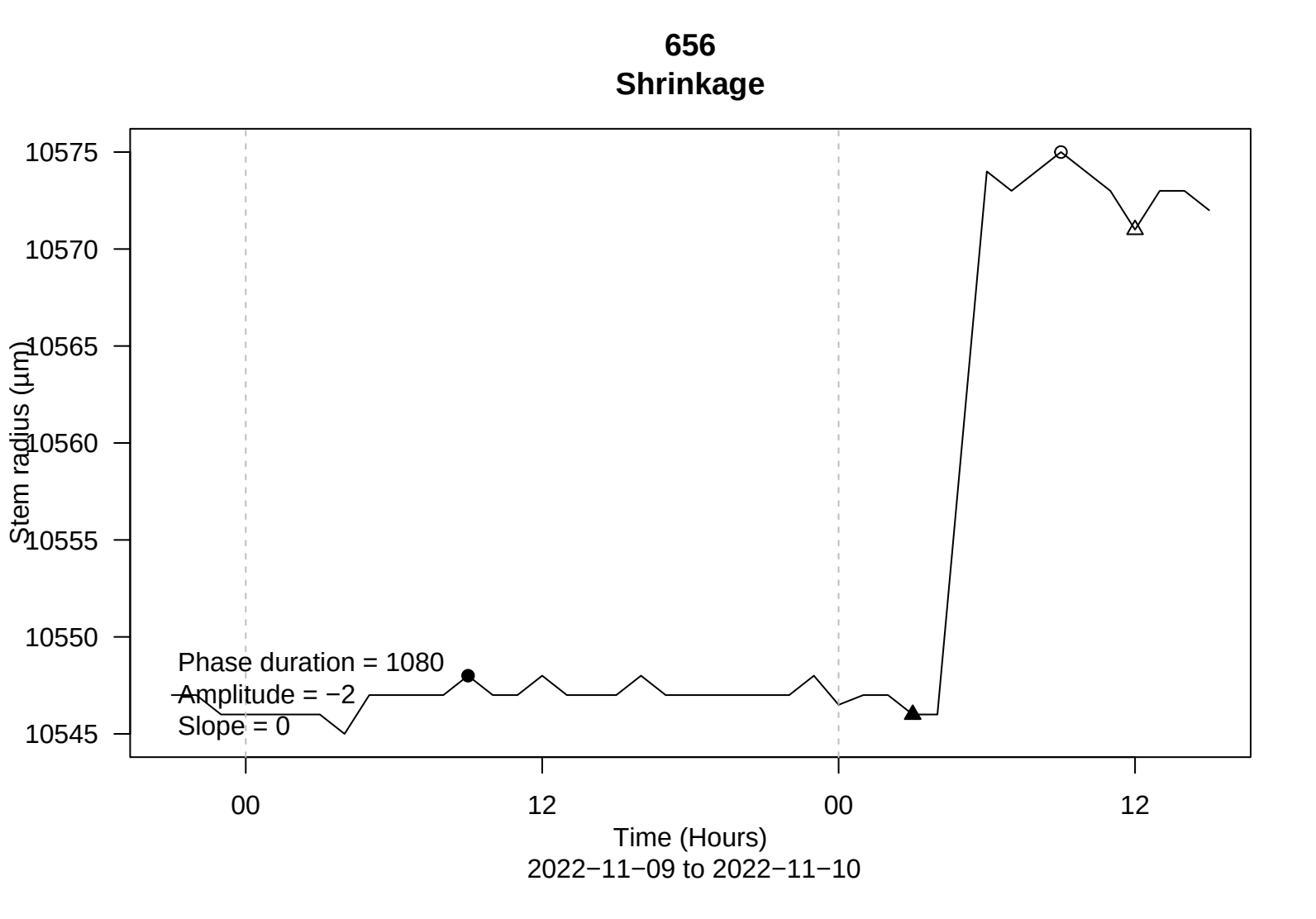

656
Shrinkage
10300
10298
10296
10294
10292
10290
10288
Stem radius (µm)
Phase duration = 600
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2022−11−02 to 2022−11−02

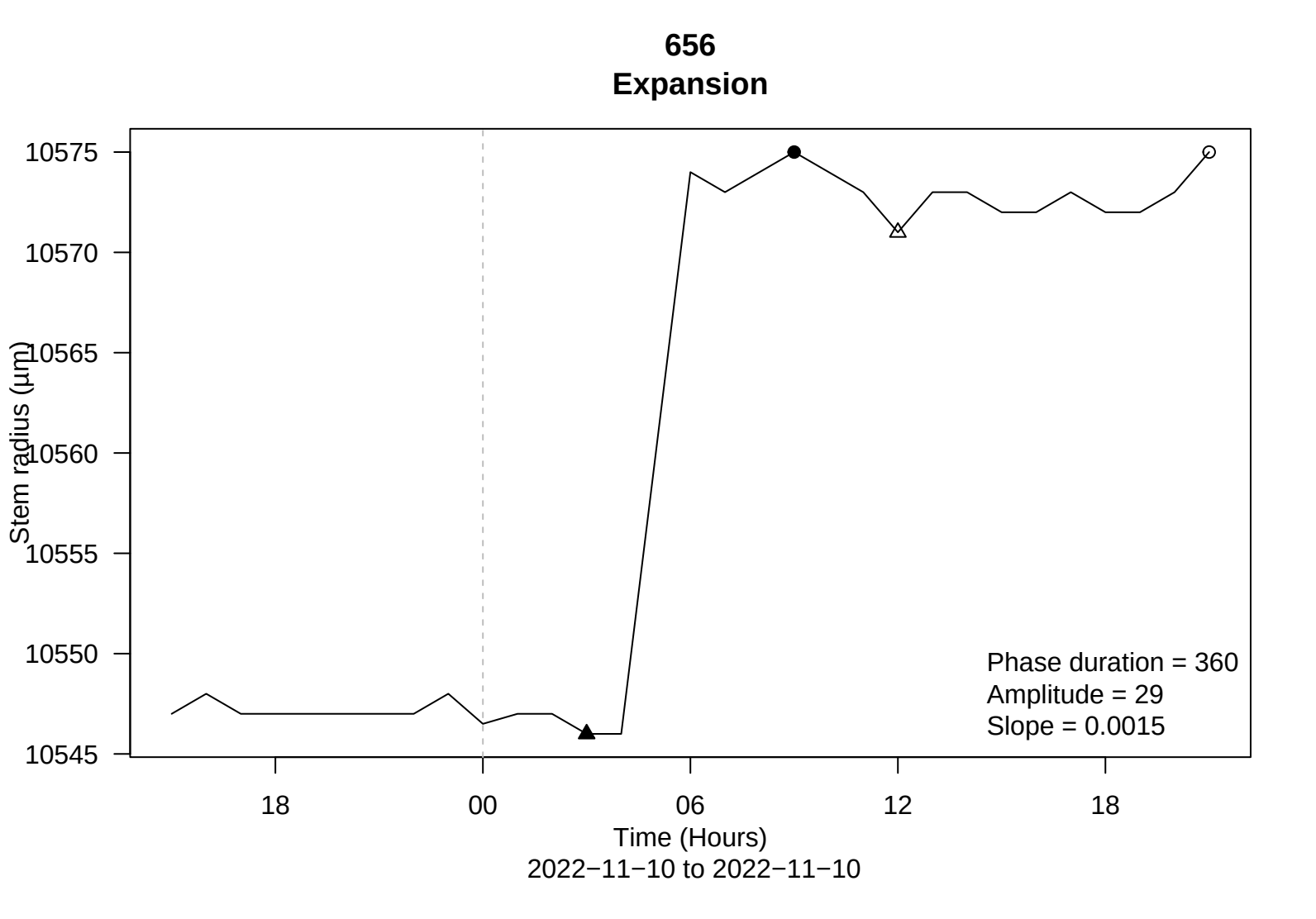

656
Shrinkage
10306
10304
10302
10300
10298
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = 0
12
18
00
06
12
Time (Hours)
2022−11−02 to 2022−11−03

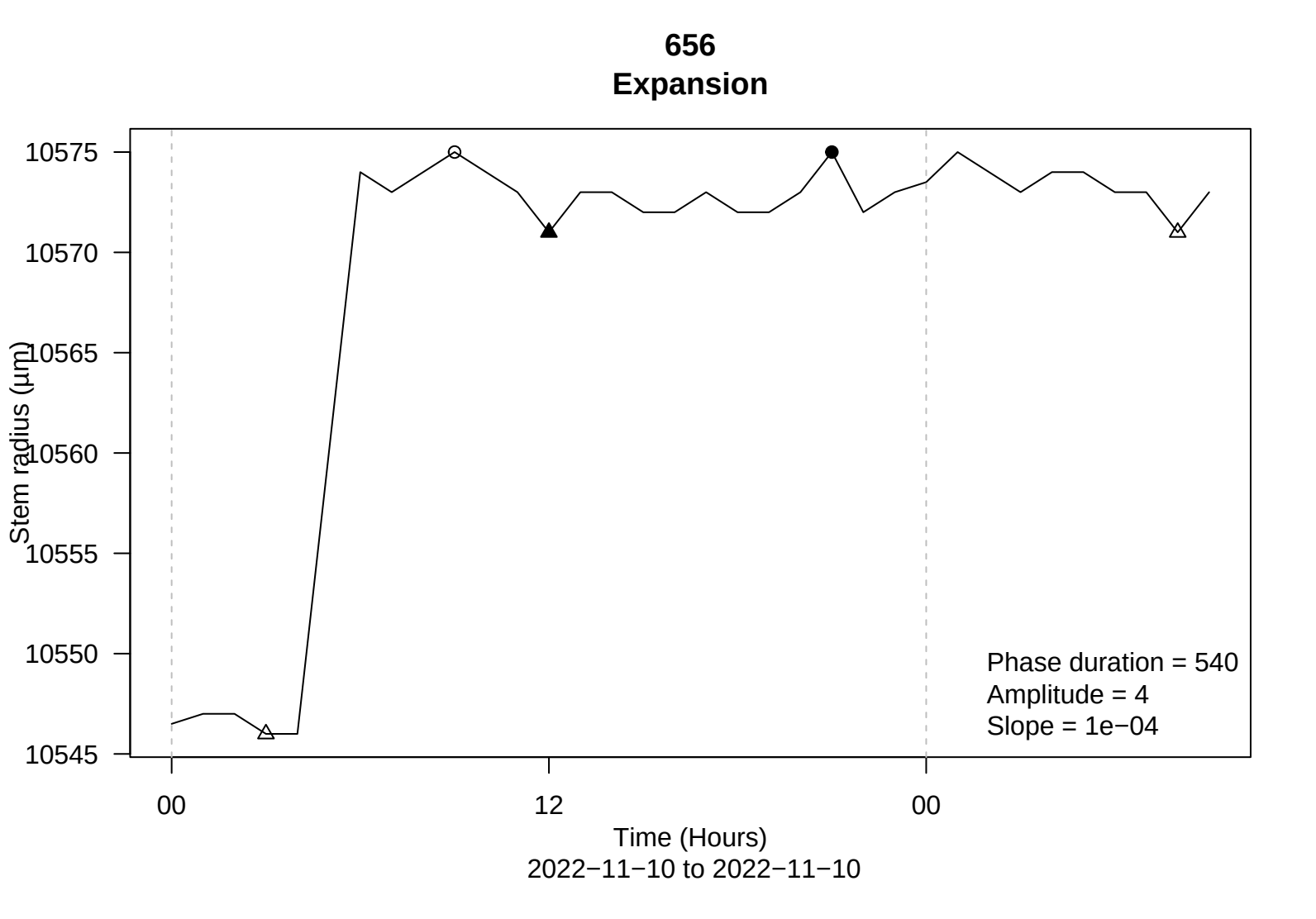

656
Expansion
10550
10500
10450
10400
10350
10300
Stem radius (µm)
Phase duration = 3180
Amplitude = 266
Slope = 0.0018
00
00
00
00
Time (Hours)
2022−11−03 to 2022−11−05

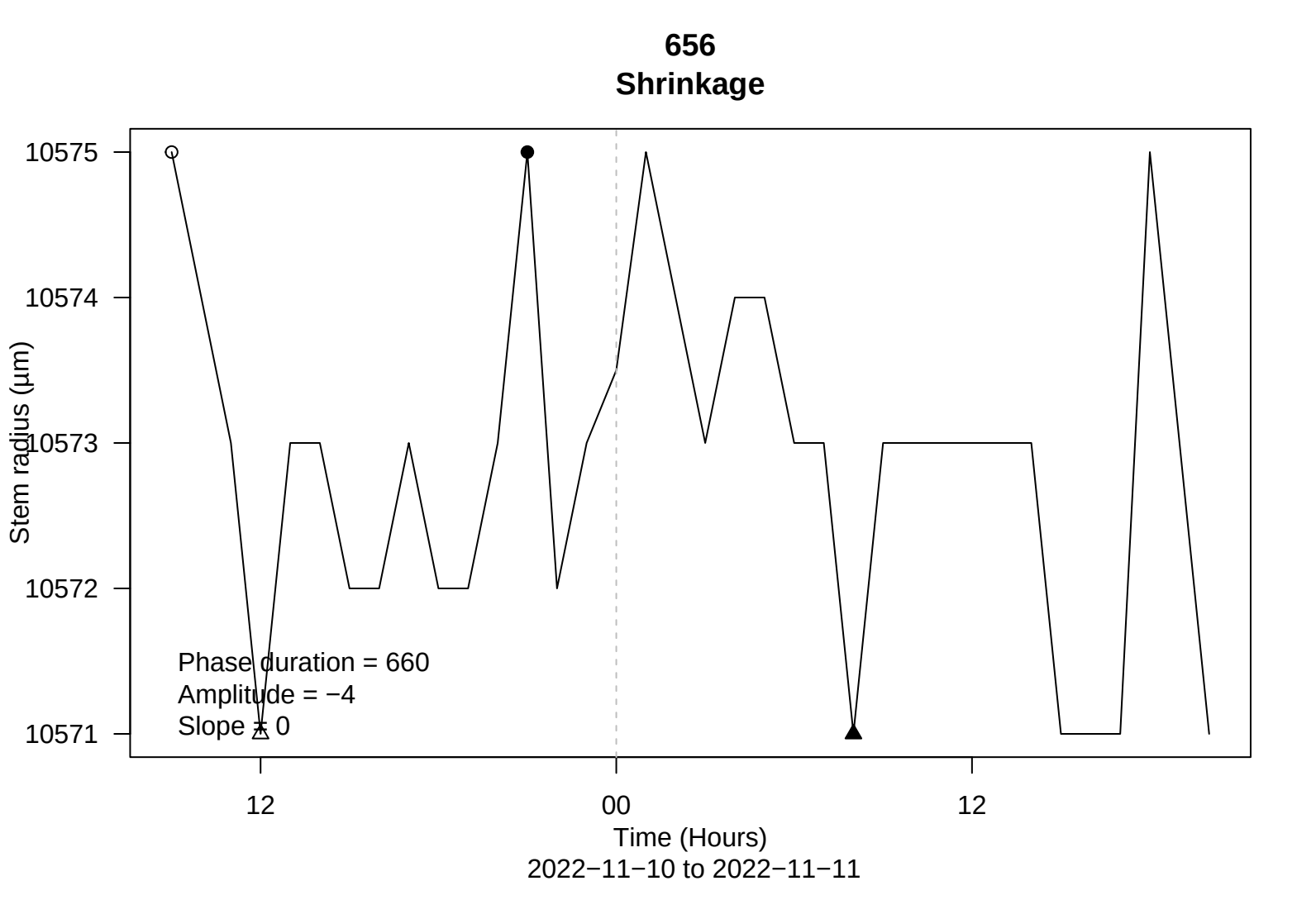

656
Shrinkage
10565
10560
10555
10550
10545
10540
10535
Stem radius (µm)
Phase duration = 2400
Amplitude = −20
Slope = −1e−04
00
00
00
Time (Hours)
2022−11−05 to 2022−11−07

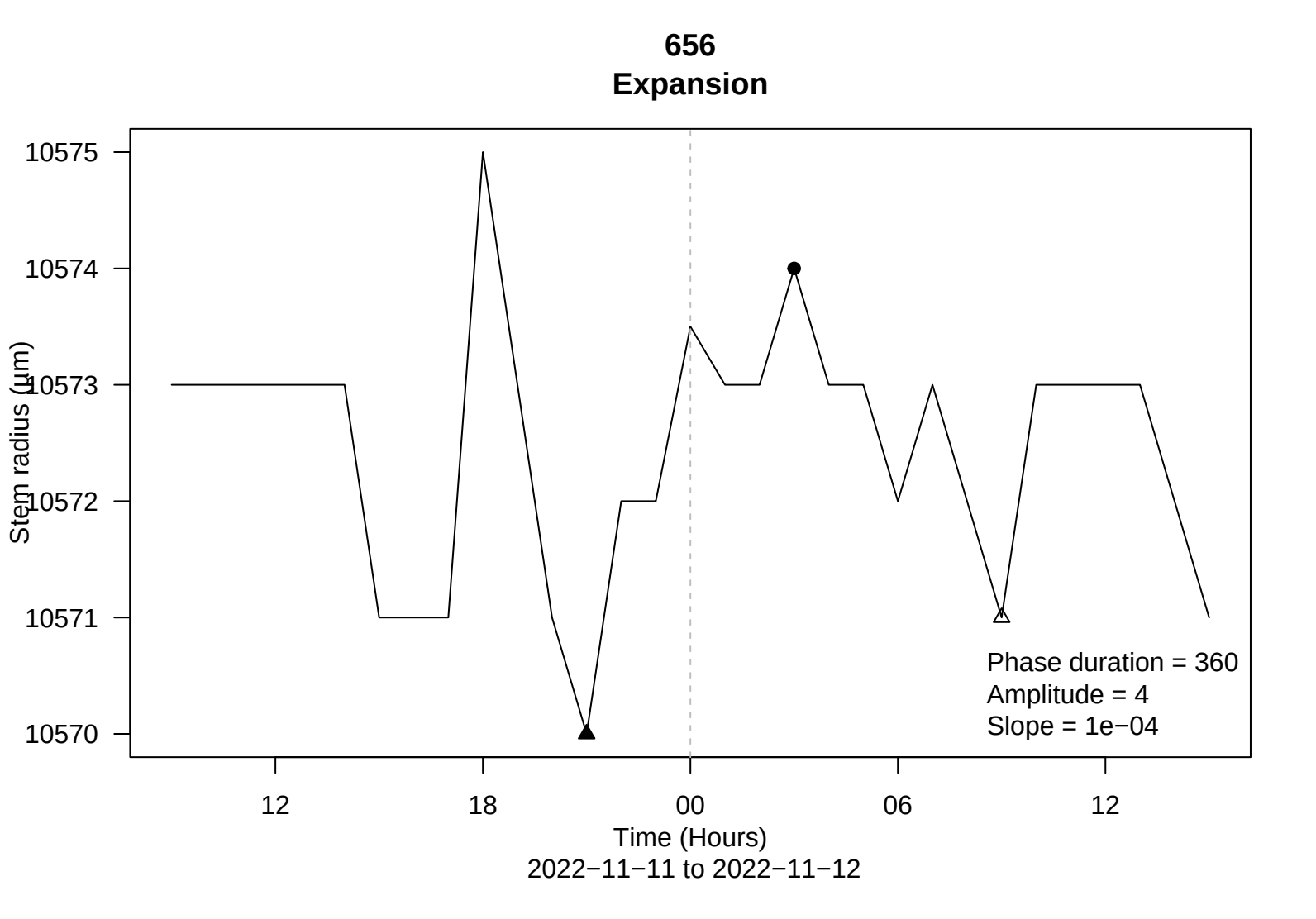

656
Expansion
10554
10552
10550
10548
10546
Stem radius (µm)
Phase duration = 480
Amplitude = 3
Slope = 1e−04
12
00
12
Time (Hours)
2022−11−07 to 2022−11−07

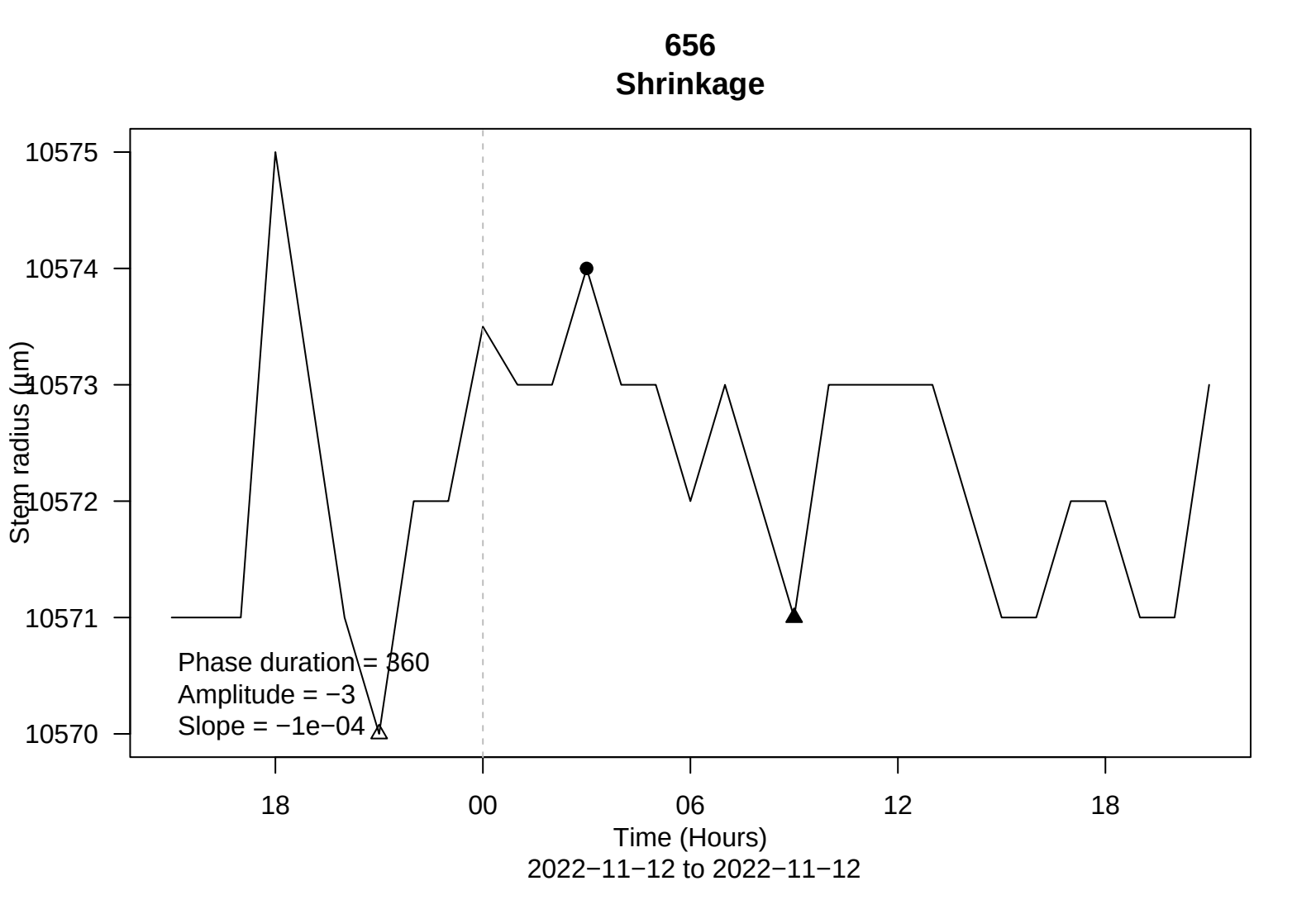

656
Shrinkage
10575
10570
10565
10560
10555
10550
10545
Stem radius (µm)
Phase duration = 1080
Amplitude = −2
Slope = 0
00
12
00
12
Time (Hours)
2022−11−09 to 2022−11−10

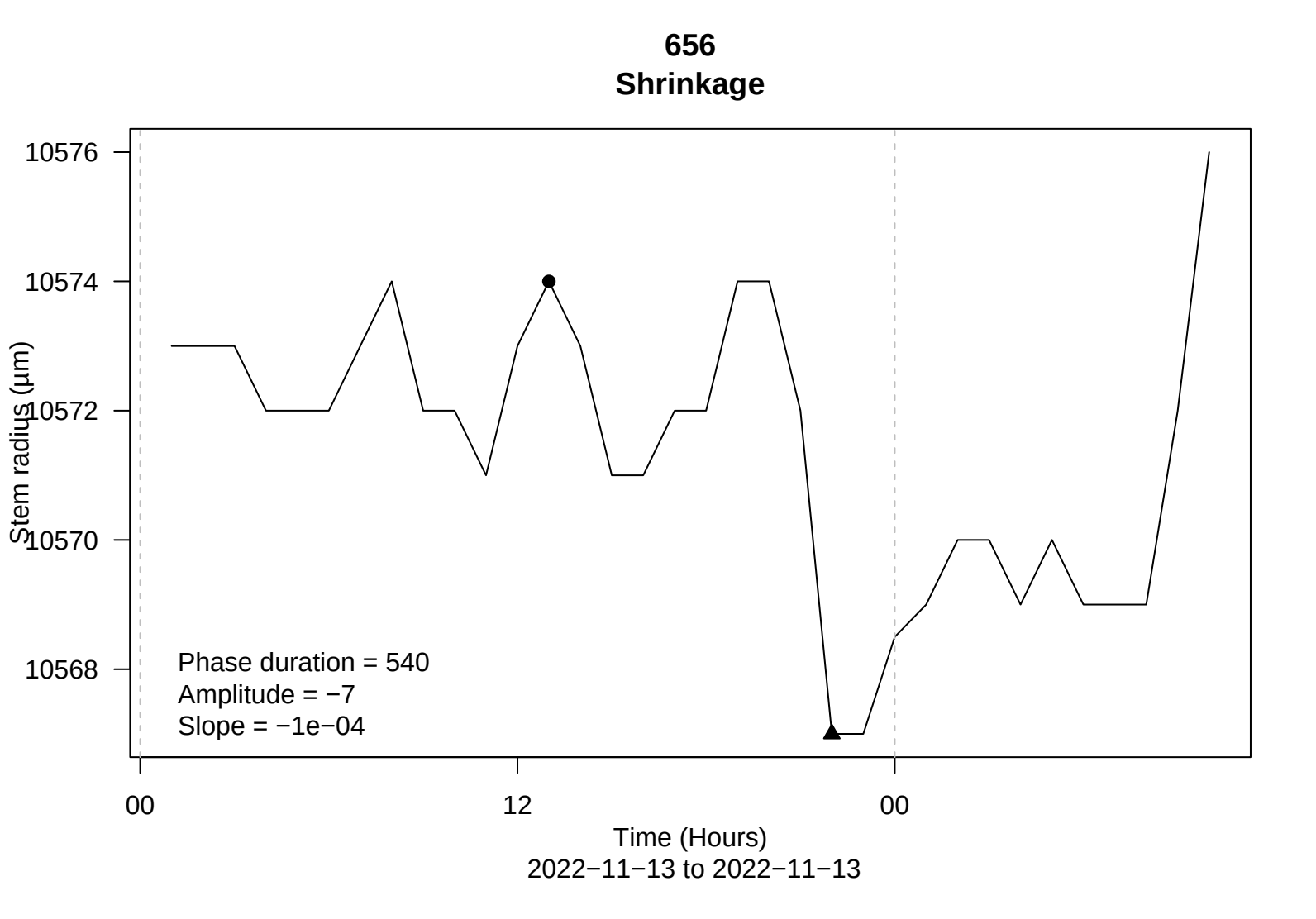

656
Expansion
10575
10570
10565
10560
10555
10550
10545
Stem radius (µm)
18
00
06
12
18
Time (Hours)
2022−11−10 to 2022−11−10
Phase duration = 360
Amplitude = 29
Slope = 0.0015

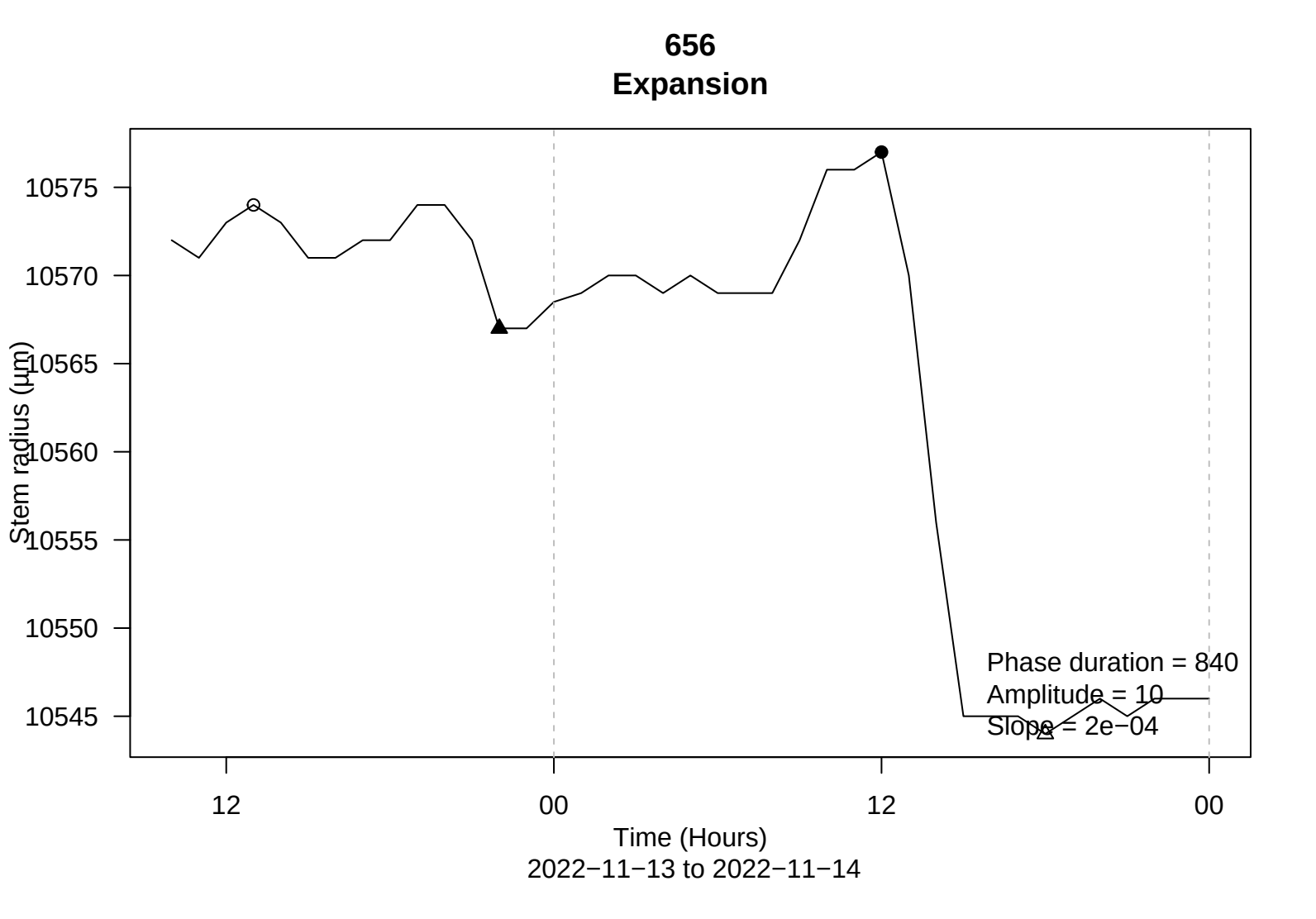

656
Expansion
10575
10570
10565
10560
10555
10550
10545
Stem radius (µm)
Phase duration = 540
Amplitude = 4
Slope = 1e−04
00
12
00
Time (Hours)
2022−11−10 to 2022−11−10

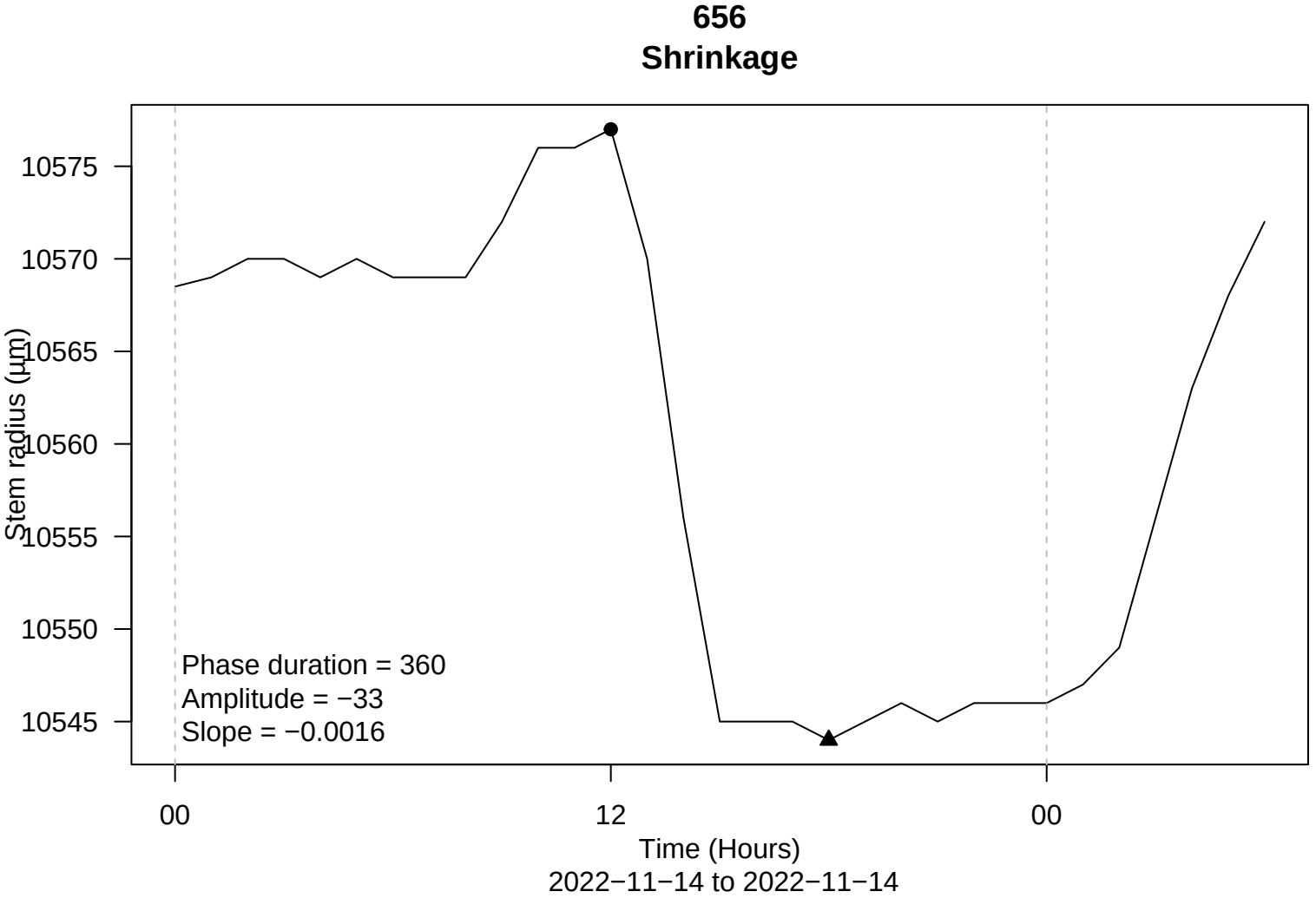

656
Shrinkage
10575
10574
10573
10572
10571
Stem radius (µm)
Phase duration = 660
Amplitude = −4
Slope = 0
12
00
12
Time (Hours)
2022−11−10 to 2022−11−11

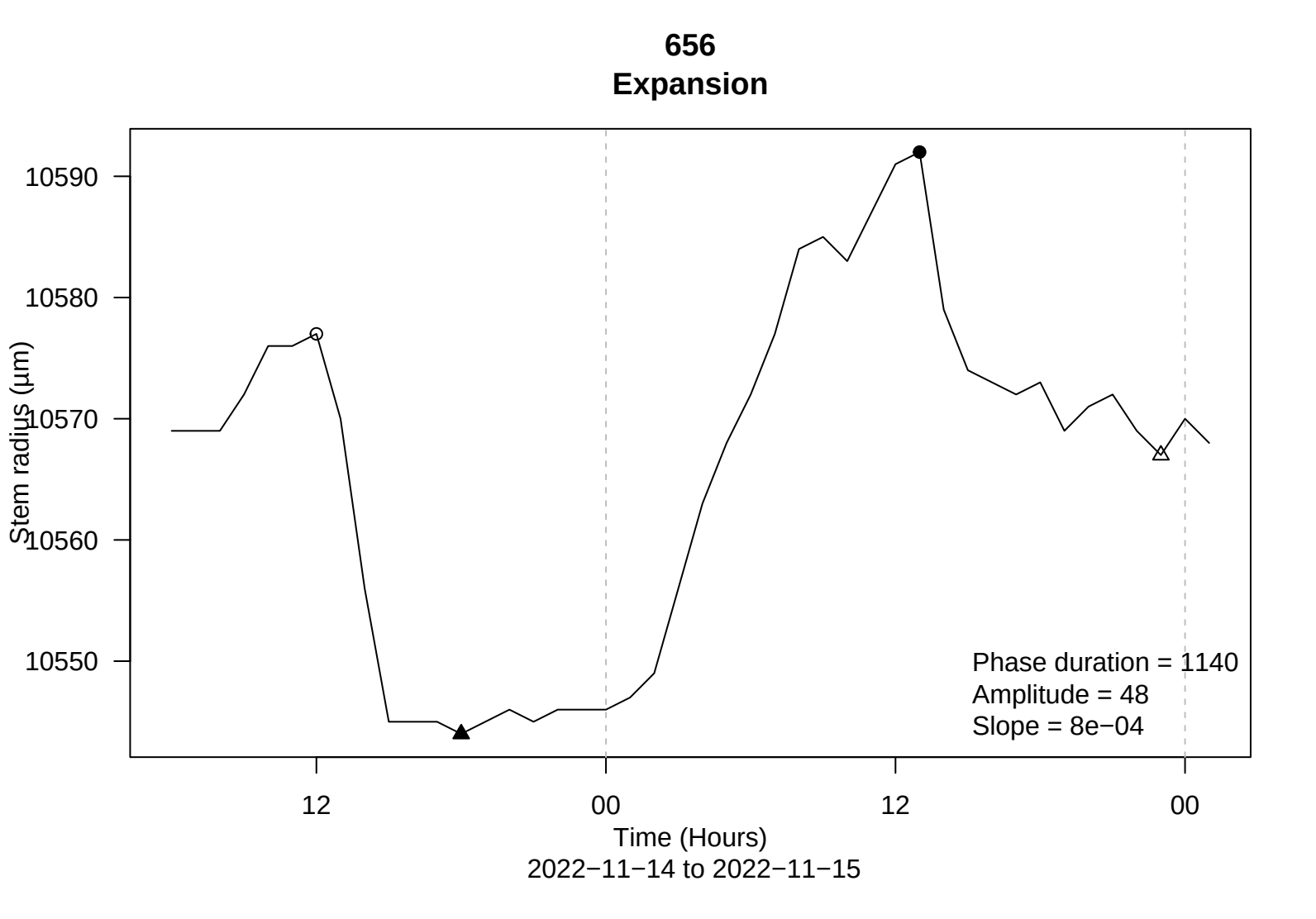

656
Expansion
10575
10574
10573
10572
10571
10570
Stem radius (µm)
12
18
00
06
12
Time (Hours)
2022−11−11 to 2022−11−12
Phase duration = 360
Amplitude = 4
Slope = 1e−04

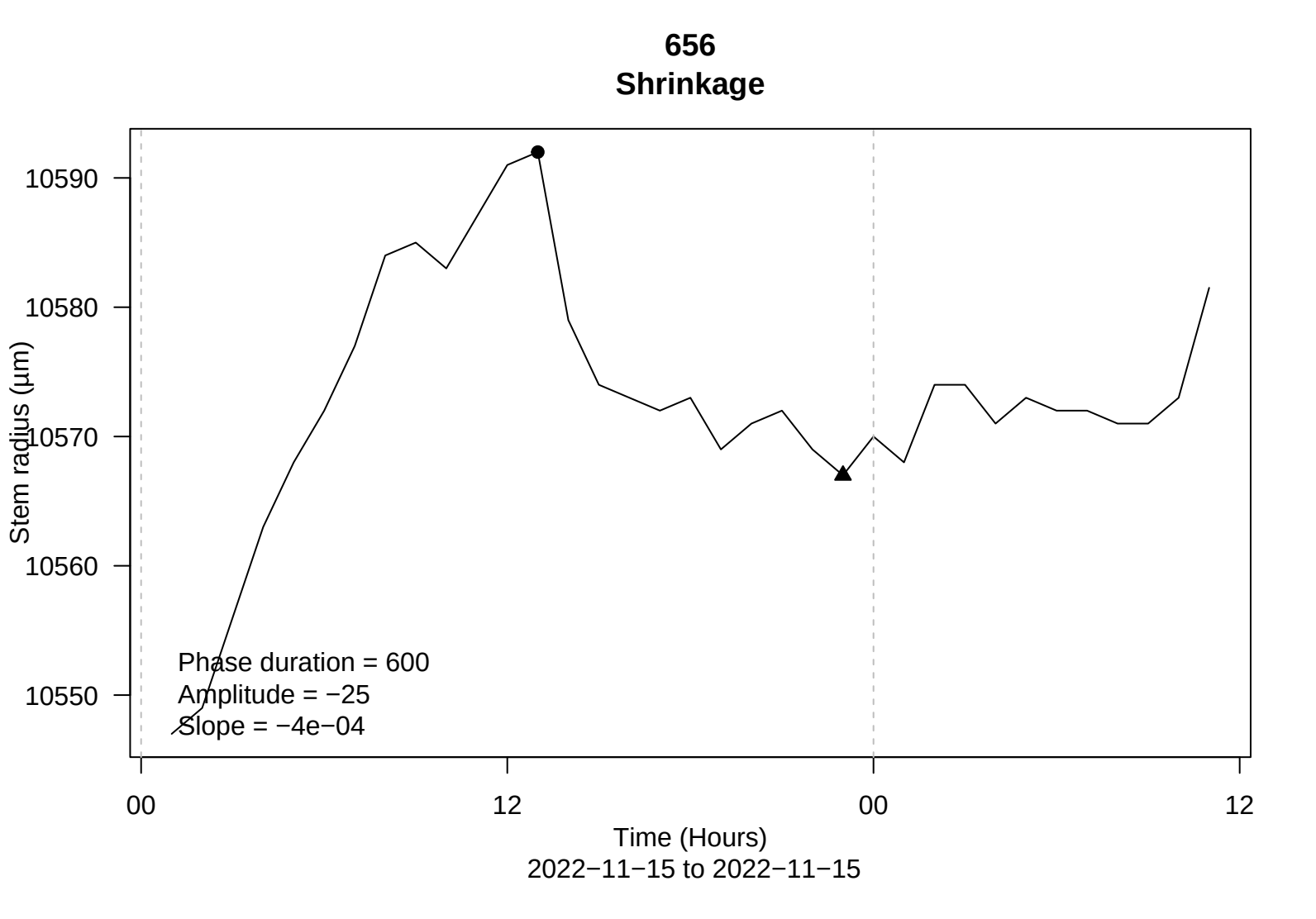

656
Shrinkage
10575
10574
10573
10572
10571
10570
Stem radius (µm)
Phase duration = 360
Amplitude = −3
Slope = −1e−04
18
00
06
12
18
Time (Hours)
2022−11−12 to 2022−11−12

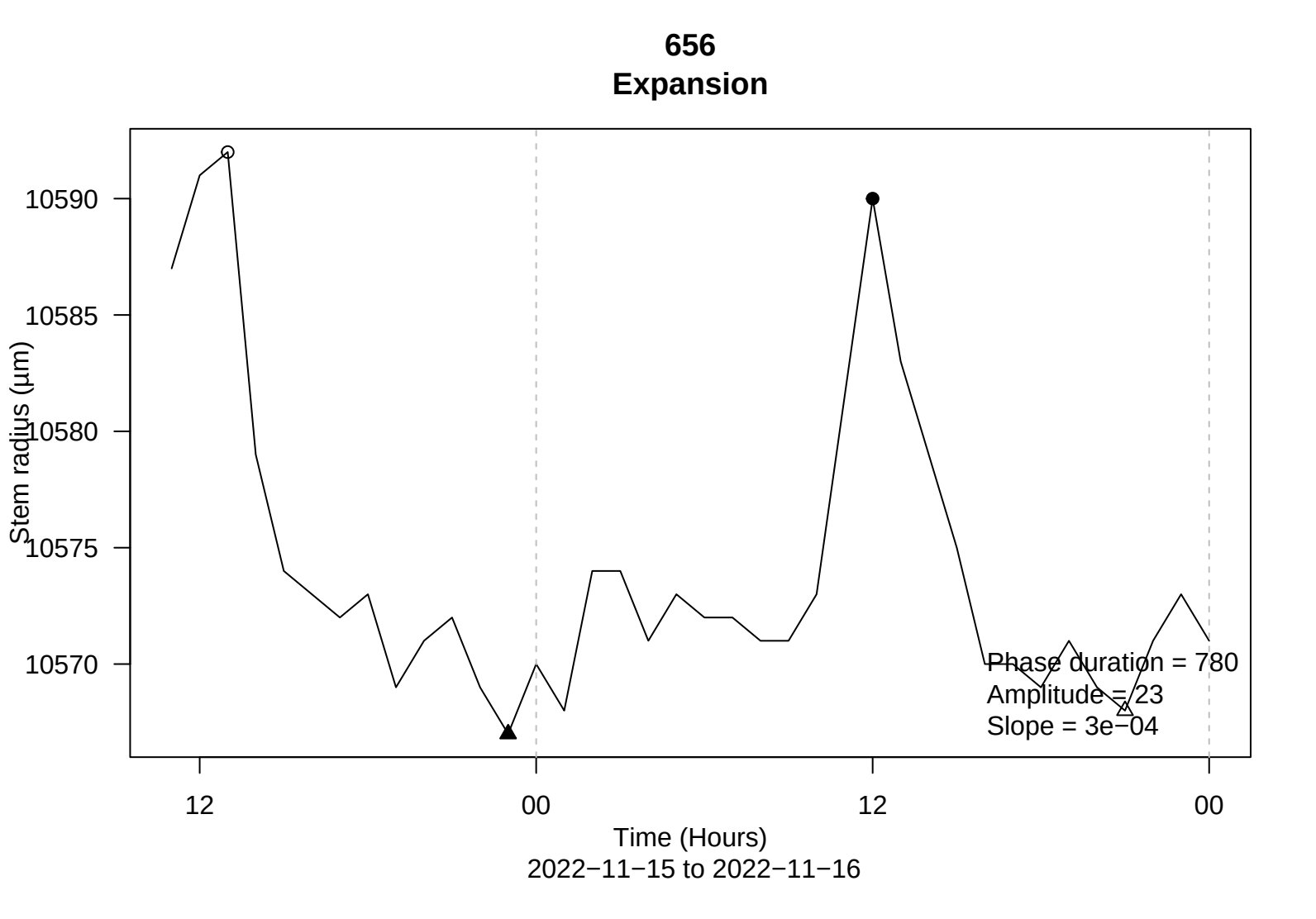

656
Shrinkage
10576
10574
10572
10570
10568
Stem radius (µm)
Phase duration = 540
Amplitude = −7
Slope = −1e−04
00
12
00
Time (Hours)
2022−11−13 to 2022−11−13

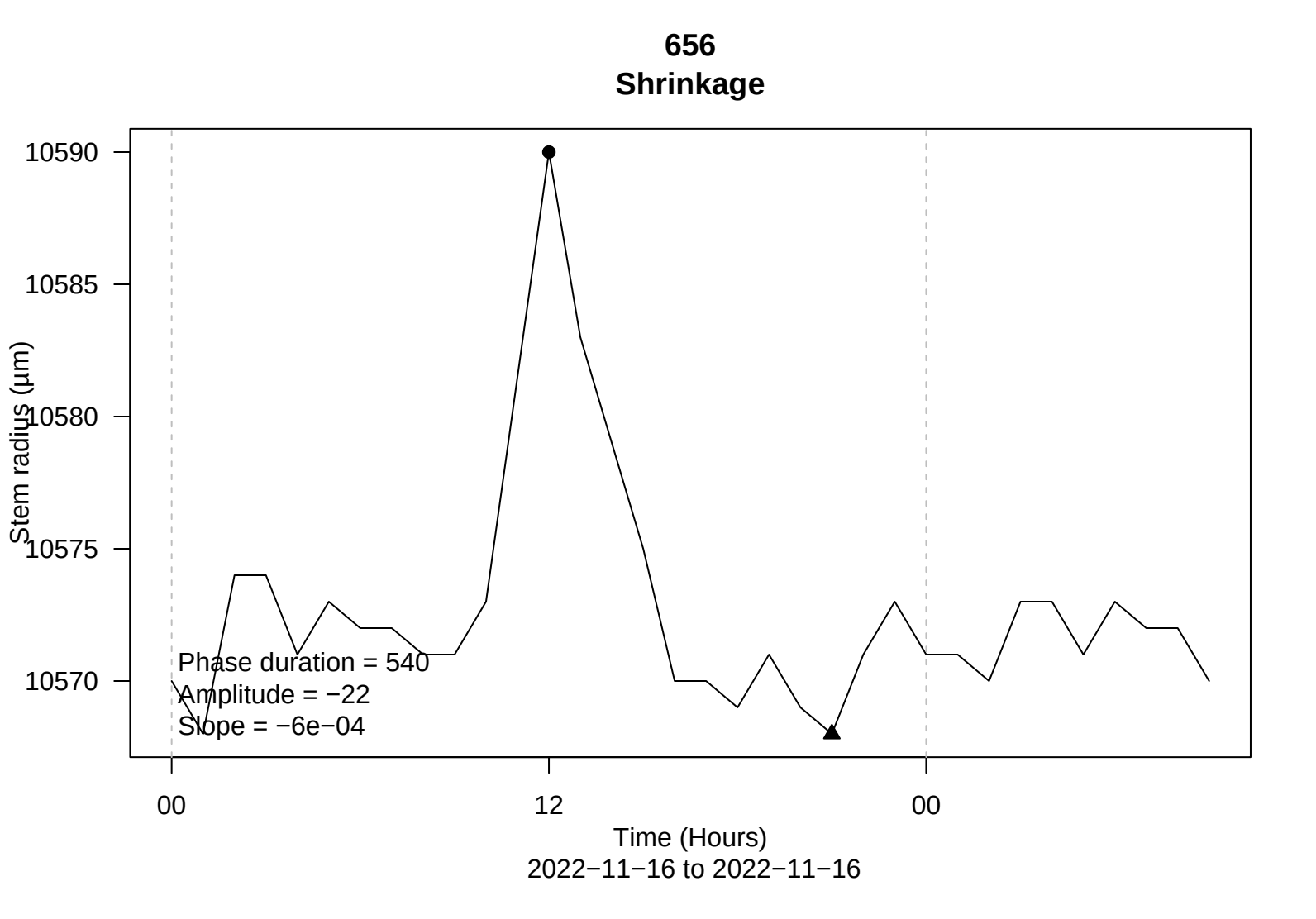

656
Expansion
10575
10570
10565
10560
10555
10550
10545
Stem radius (µm)
Phase duration = 840
Amplitude = 10
Slope = 2e−04
12
00
12
00
Time (Hours)
2022−11−13 to 2022−11−14

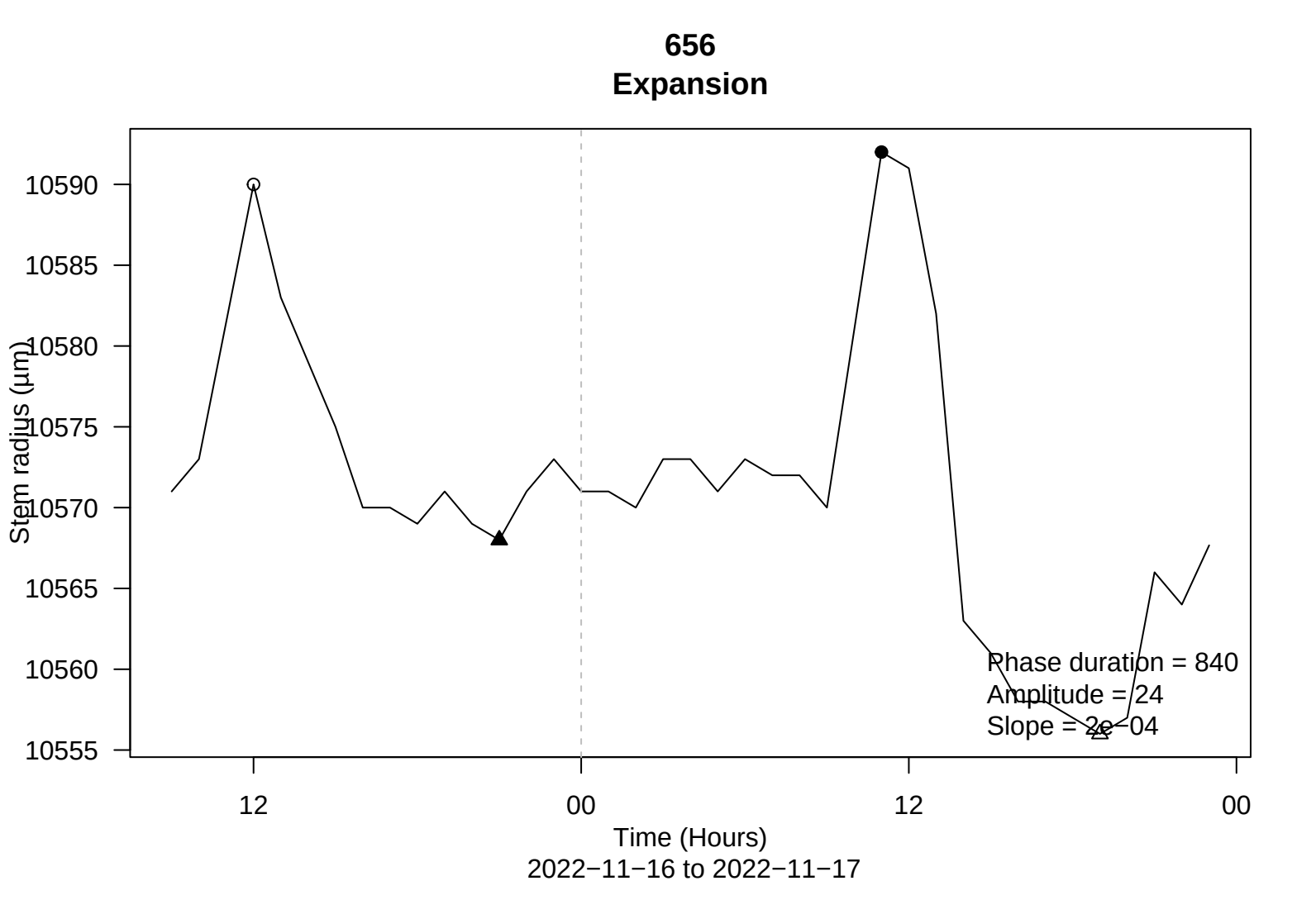

656
Shrinkage
10575
10570
10565
10560
10555
10550
10545
Stem radius (µm)
Phase duration = 360
Amplitude = −33
Slope = −0.0016
00
12
00
Time (Hours)
2022−11−14 to 2022−11−14

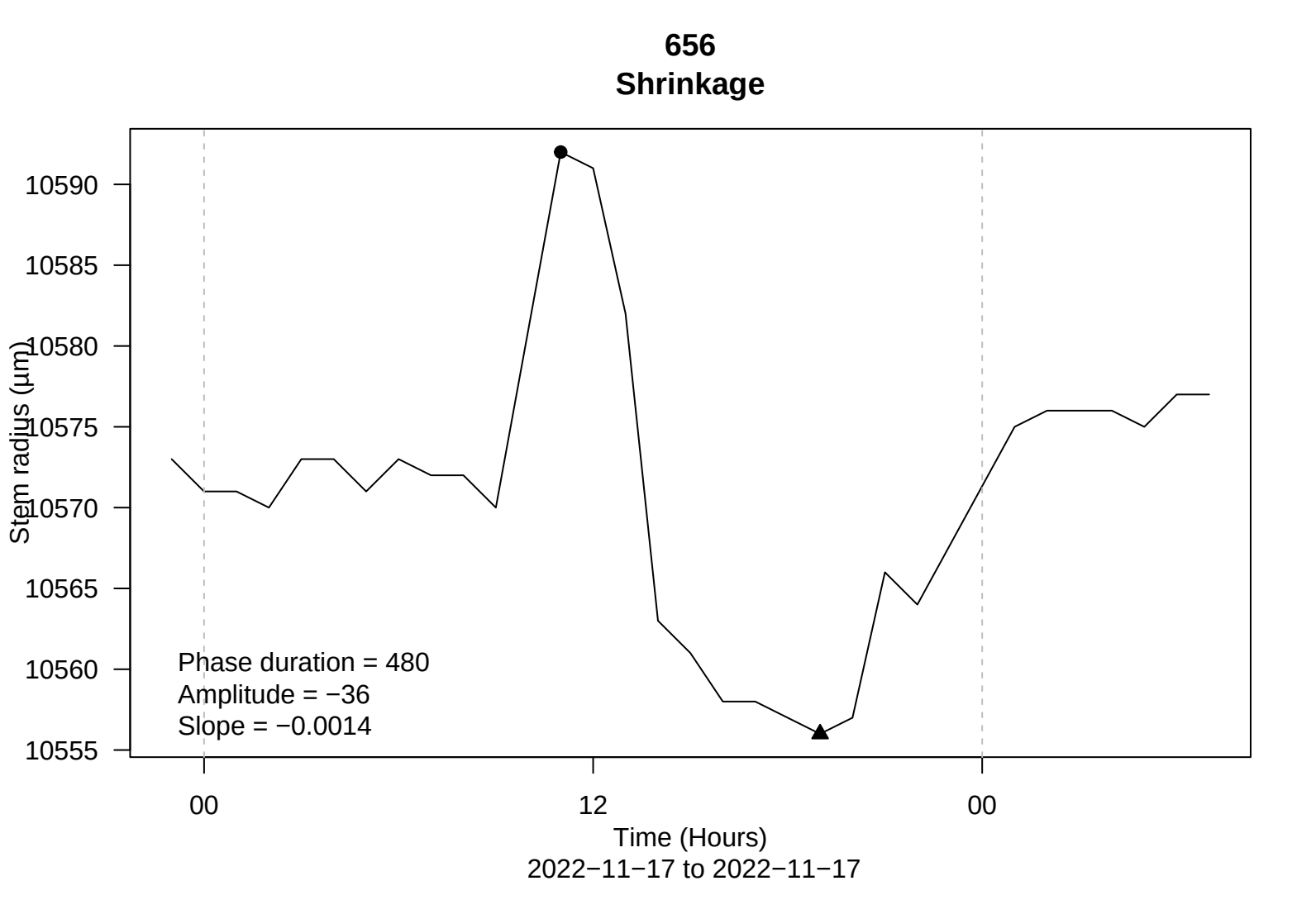

656
Expansion
10590
10580
10570
10560
10550
Stem radius (µm)
Phase duration = 1140
Amplitude = 48
Slope = 8e−04
12
00
12
00
Time (Hours)
2022−11−14 to 2022−11−15

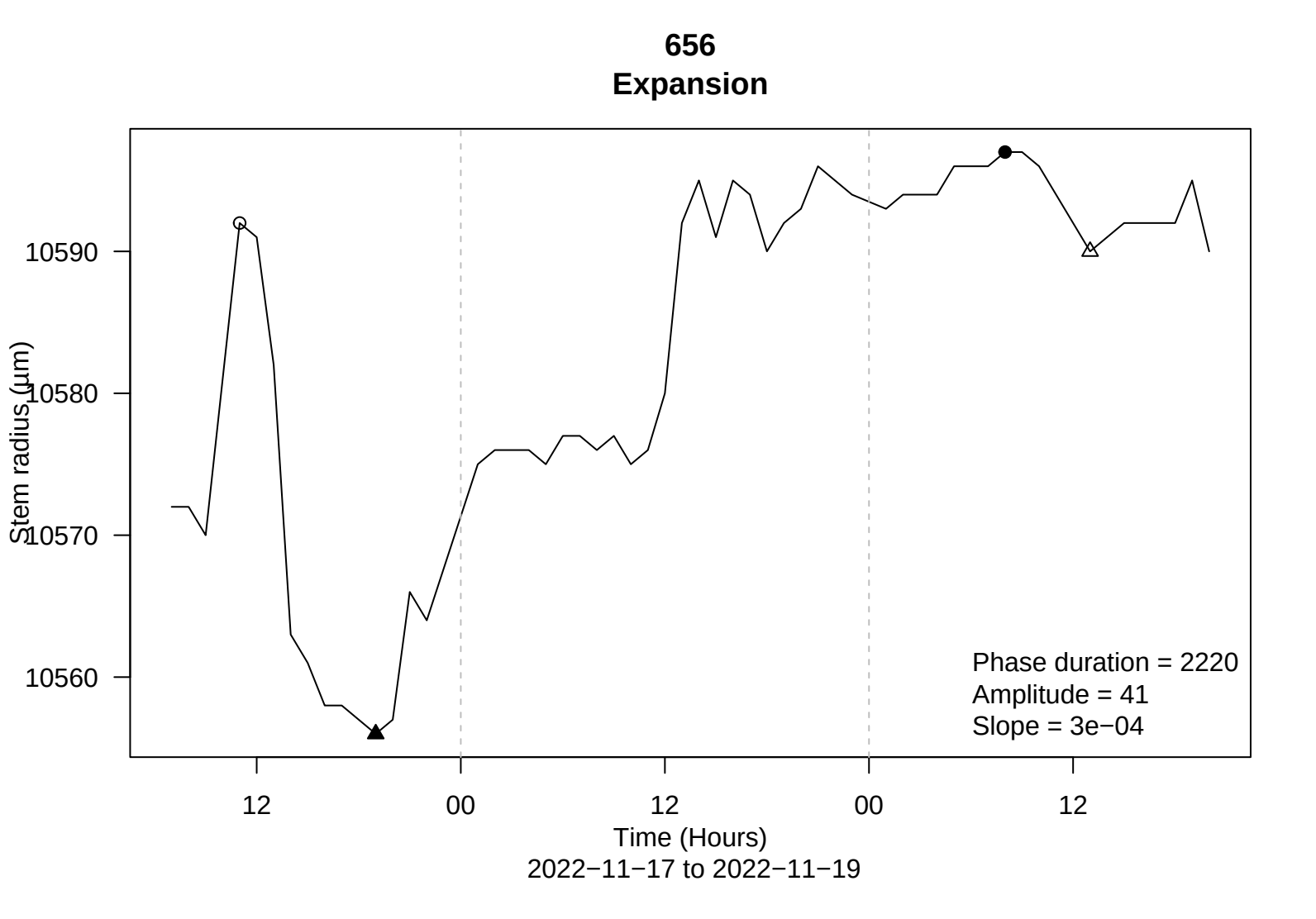

656
Shrinkage
10590
10580
10570
10560
10550
Stem radius (µm)
Phase duration = 600
Amplitude = −25
Slope = −4e−04
00
12
00
12
Time (Hours)
2022−11−15 to 2022−11−15

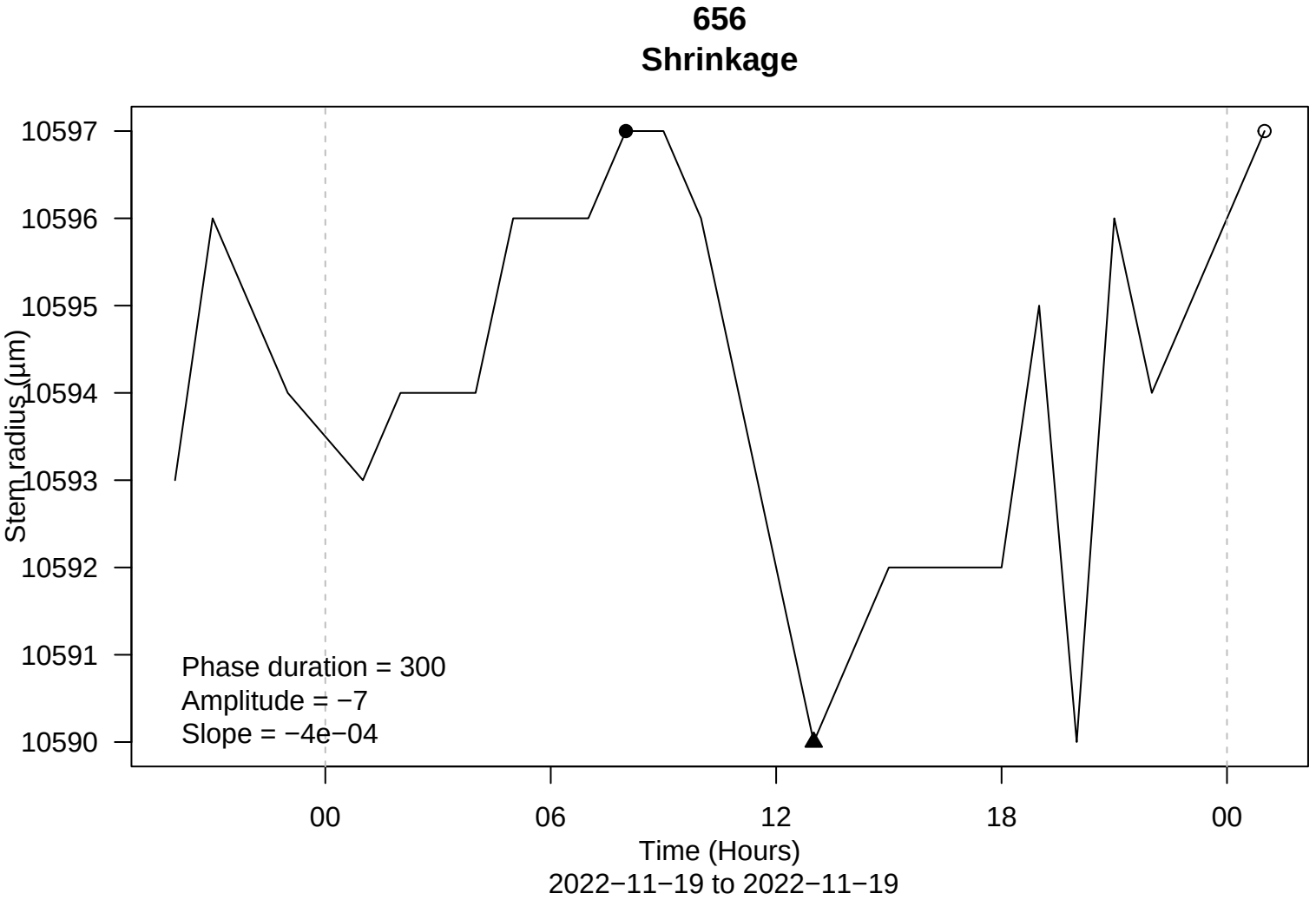

656
Expansion
10590
10585
10580
10575
10570
Stem radius (µm)
Phase duration = 780
Amplitude = 23
Slope = 3e−04
12
00
12
00
Time (Hours)
2022−11−15 to 2022−11−16

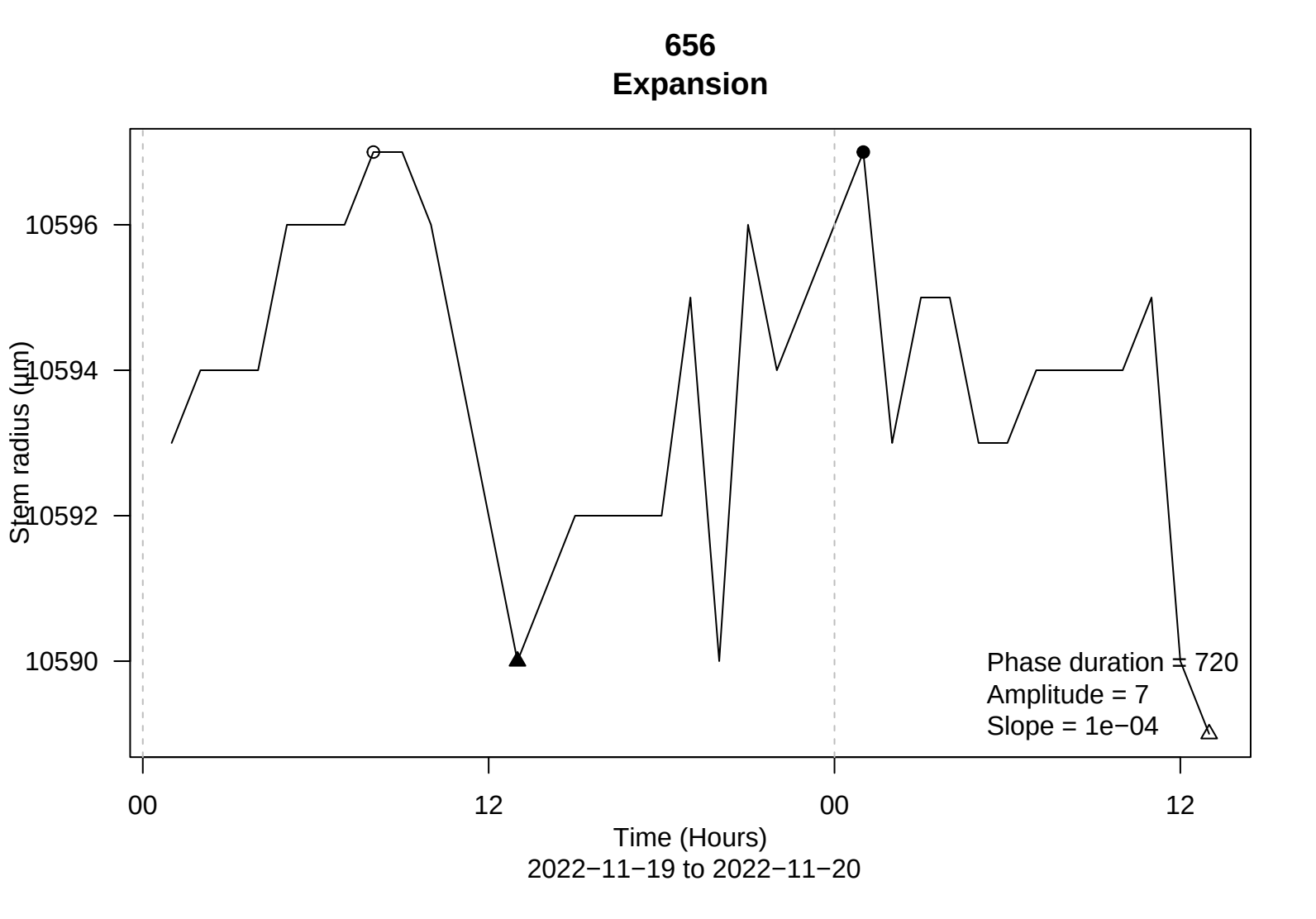

656
Shrinkage
10590
10585
10580
10575
10570
Stem radius (µm)
Phase duration = 540
Amplitude = −22
Slope = −6e−04
00
12
00
Time (Hours)
2022−11−16 to 2022−11−16

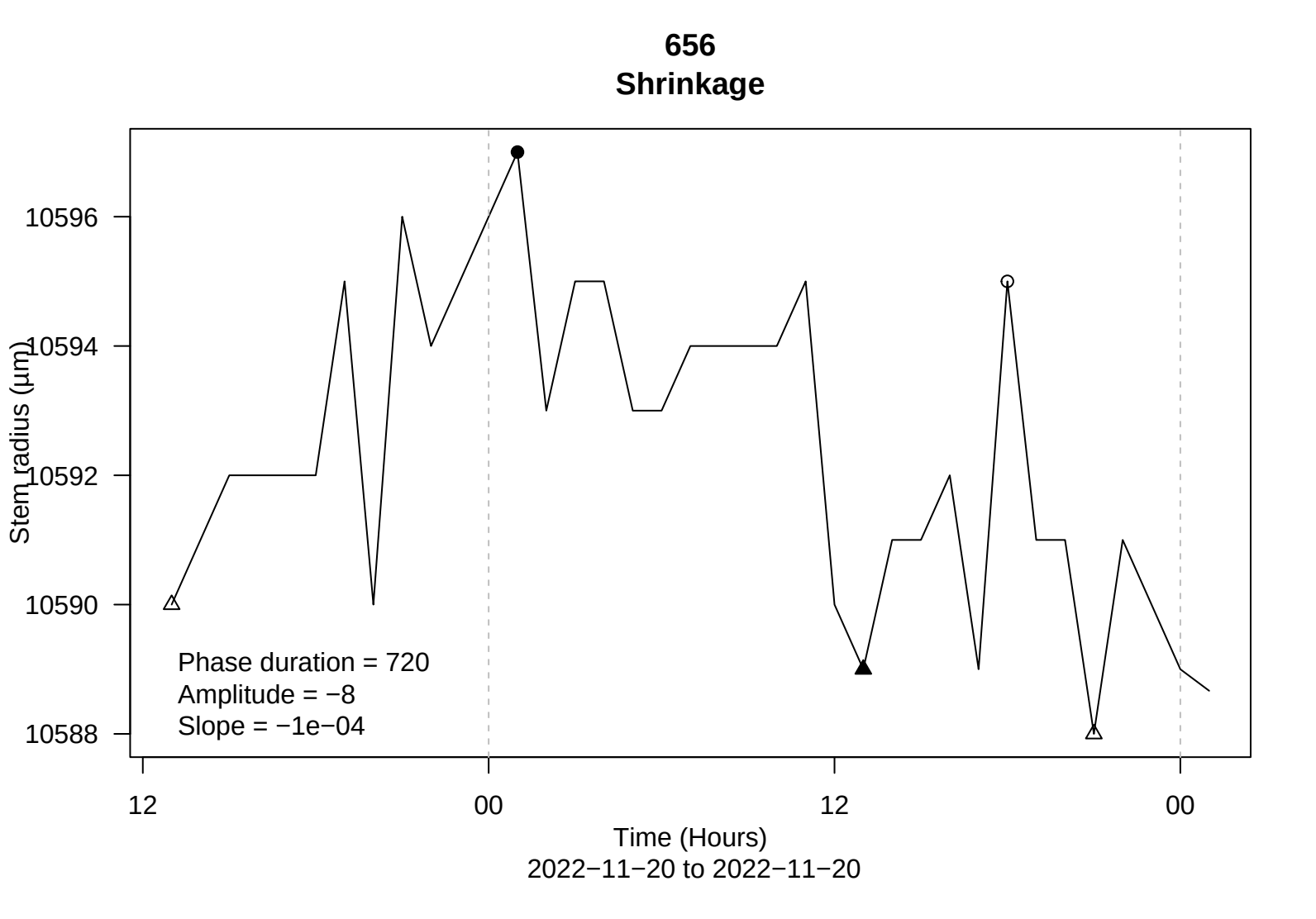

656
Expansion
10590
10585
10580
10575
10570
10565
10560
10555
Stem radius (µm)
12
00
12
00
Time (Hours)
2022−11−16 to 2022−11−17
Phase duration = 840
Amplitude = 24
Slope = 2e−04

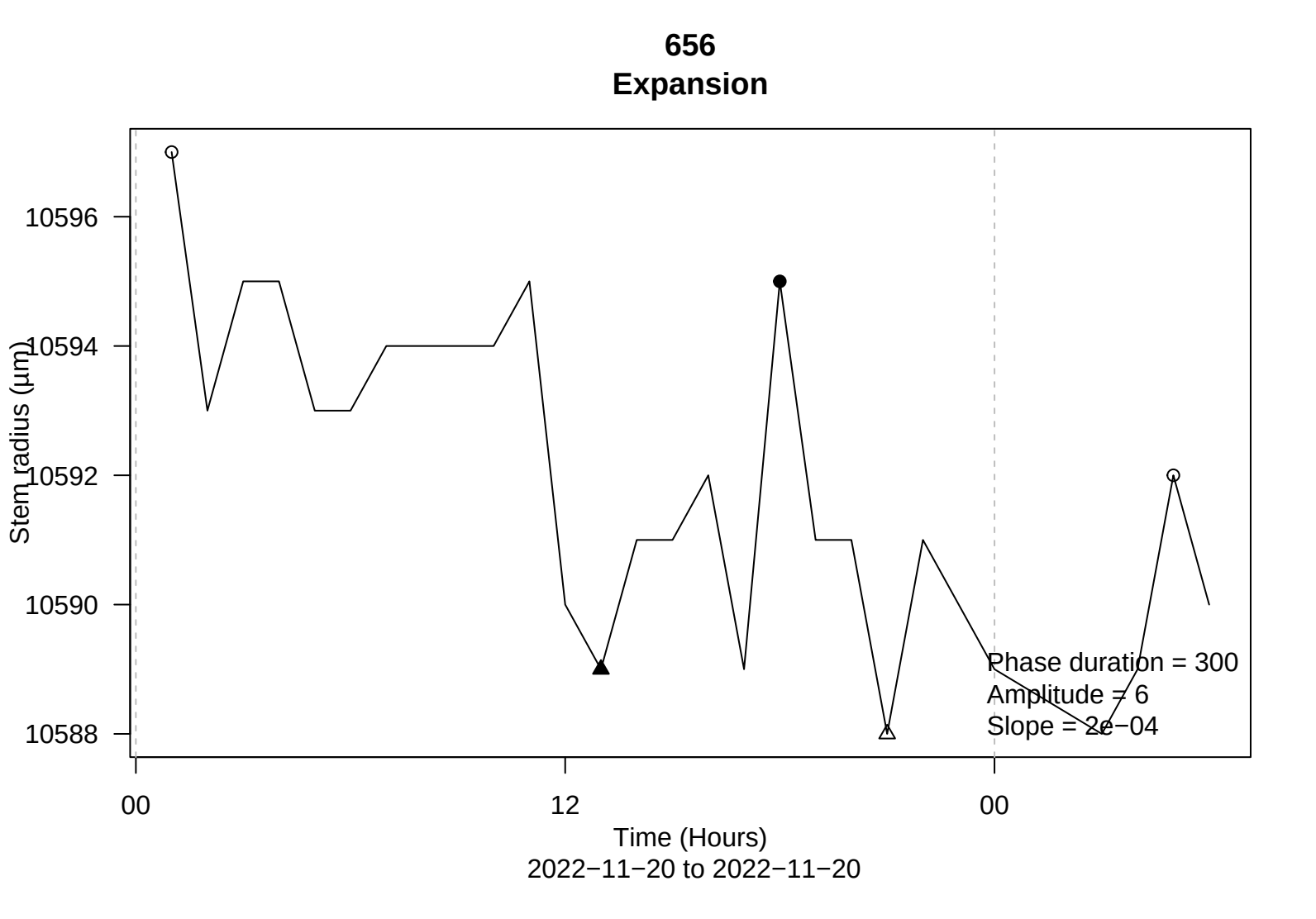

656
Shrinkage
10590
10585
10580
10575
10570
10565
10560
10555
Stem radius (µm)
Phase duration = 480
Amplitude = −36
Slope = −0.0014
00
12
00
Time (Hours)
2022−11−17 to 2022−11−17

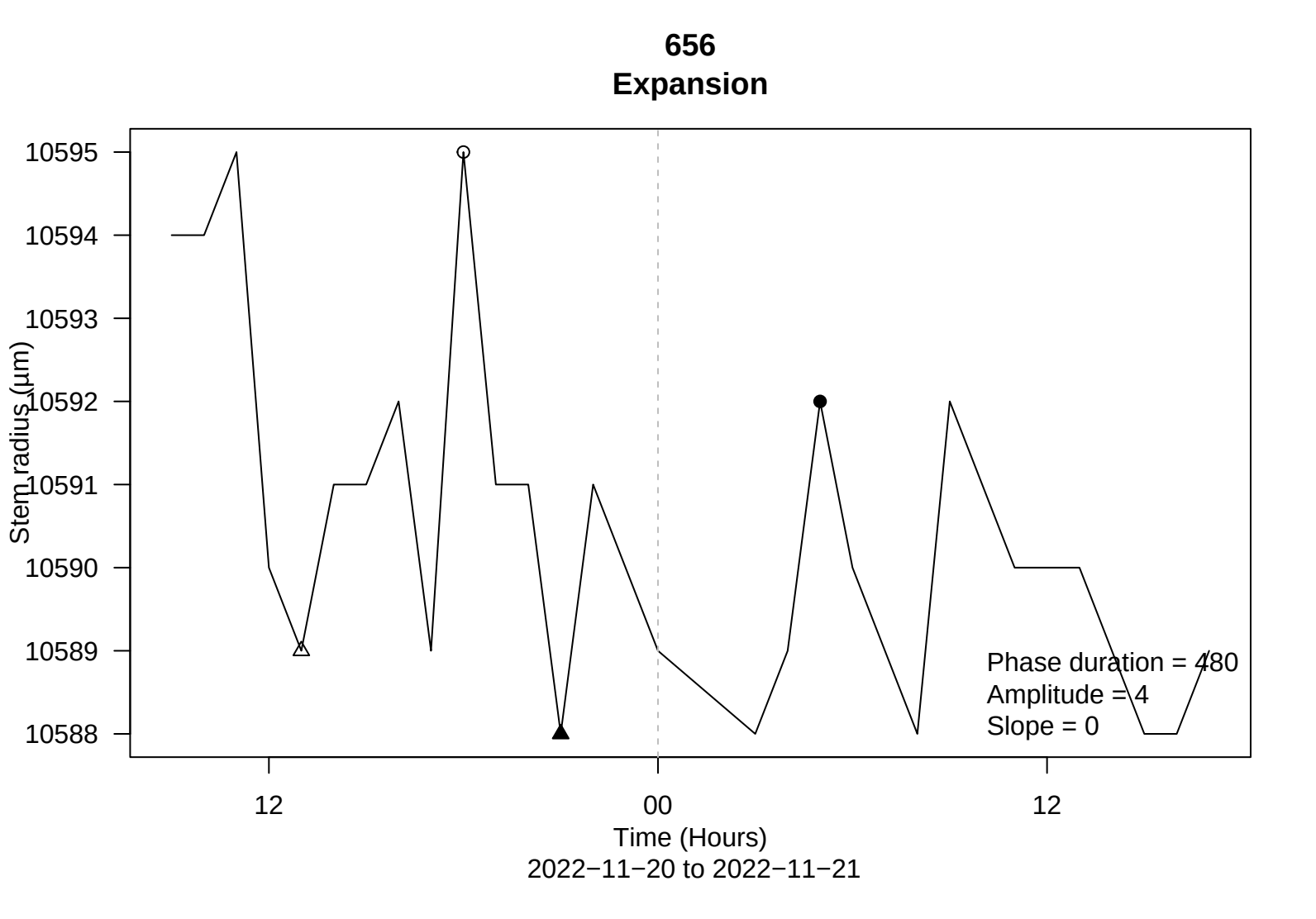

656
Expansion
10590
10580
10570
10560
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2022−11−17 to 2022−11−19
Phase duration = 2220
Amplitude = 41
Slope = 3e−04

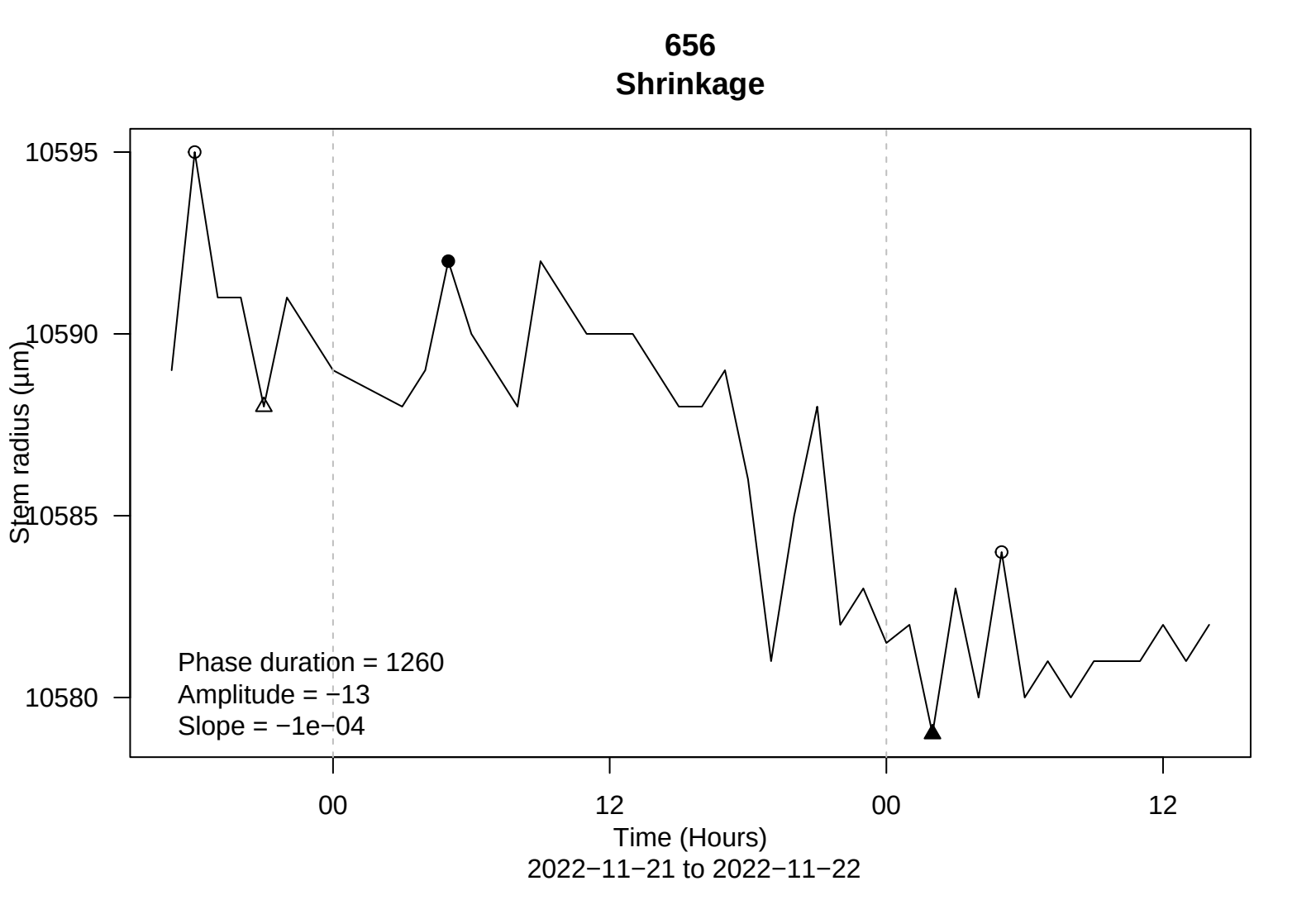

656
Shrinkage
10597
10596
10595
10594
10593
10592
10591
10590
Stem radius (µm)
Phase duration = 300
Amplitude = −7
Slope = −4e−04
00
06
12
18
00
Time (Hours)
2022−11−19 to 2022−11−19

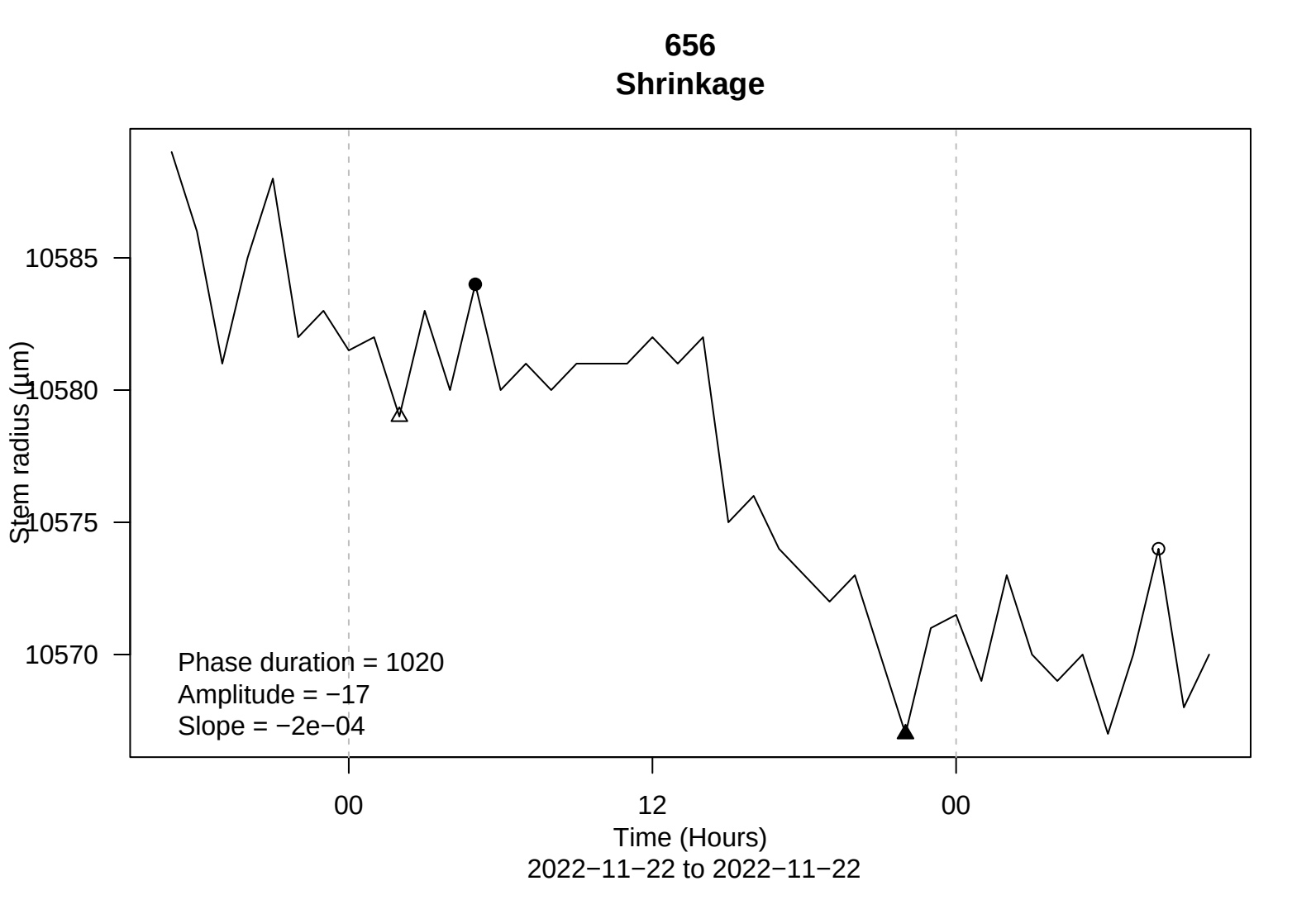

656
Expansion
10596
10594
10592
10590
Stem radius (µm)
Phase duration = 720
Amplitude = 7
Slope = 1e−04
00
12
00
12
Time (Hours)
2022−11−19 to 2022−11−20

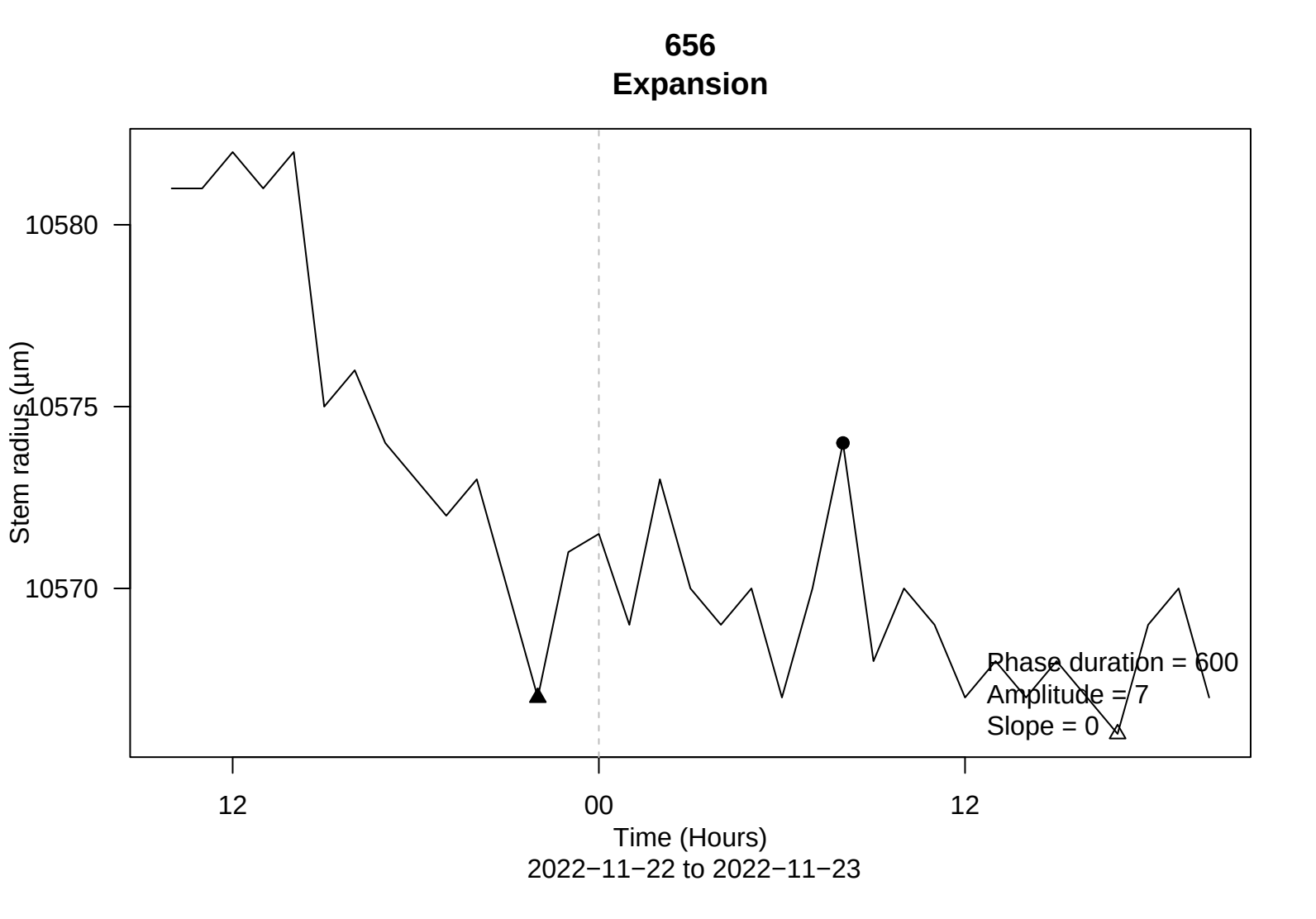

656
Shrinkage
10596
10594
10592
10590
10588
Stem radius (µm)
Phase duration = 720
Amplitude = −8
Slope = −1e−04
12
00
12
00
Time (Hours)
2022−11−20 to 2022−11−20

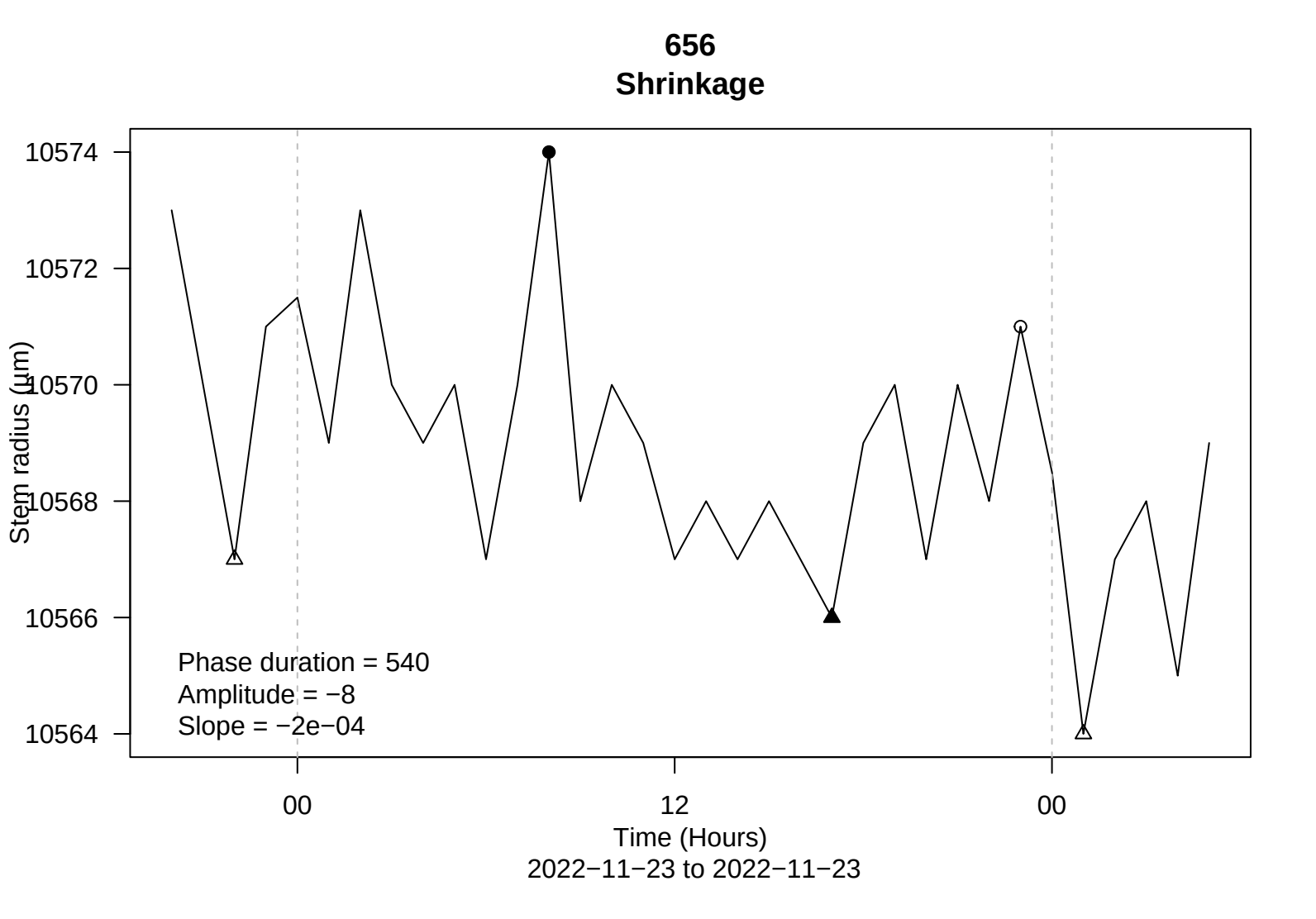

656
Expansion
10596
10594
10592
10590
10588
Stem radius (µm)
00
12
00
Time (Hours)
2022−11−20 to 2022−11−20
Phase duration = 300
Amplitude = 6
Slope = 2e−04

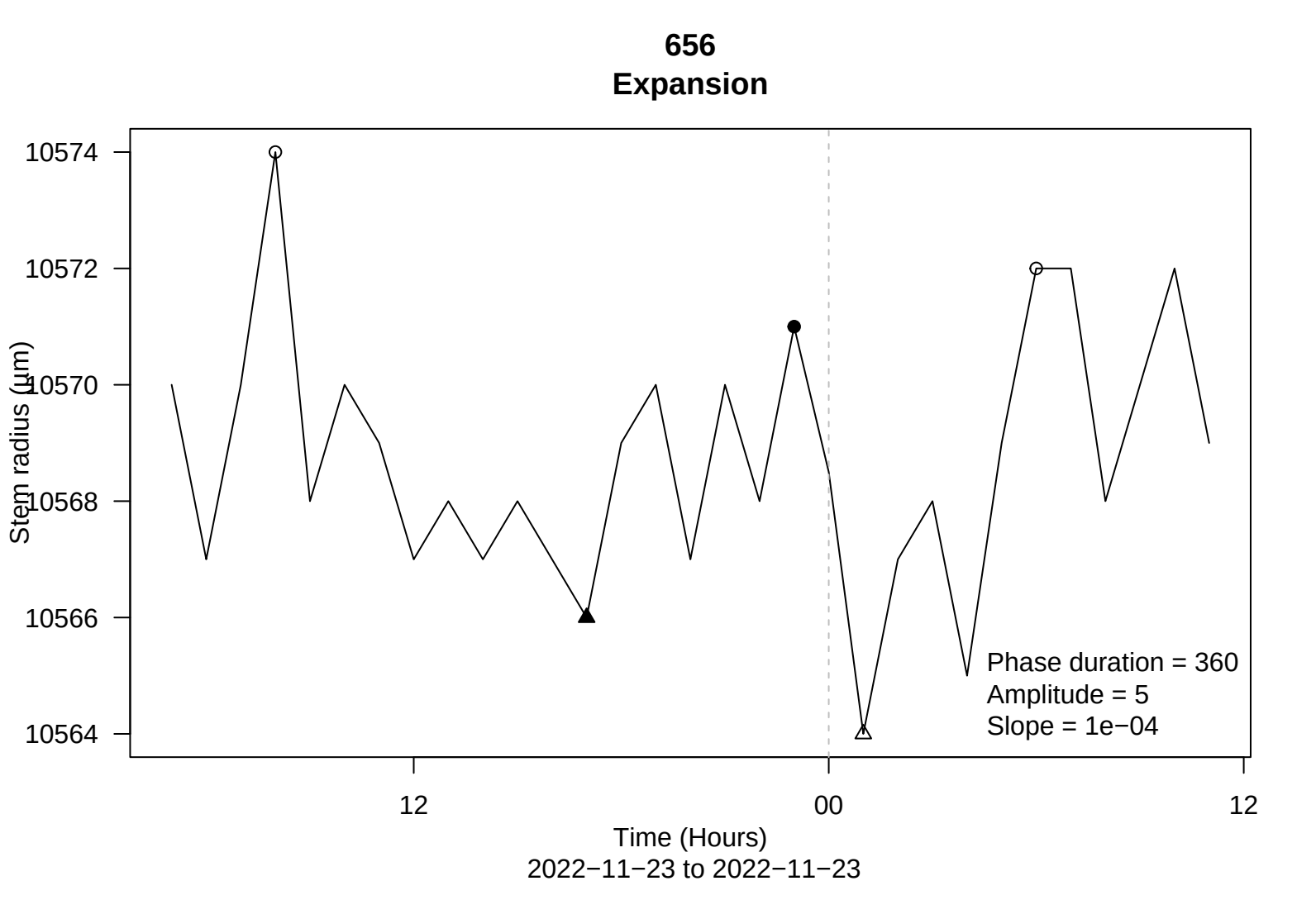

656
Expansion
10595
10594
10593
10592
10591
10590
10589
10588
Stem radius (µm)
12
00
12
Time (Hours)
2022−11−20 to 2022−11−21
Phase duration = 480
Amplitude = 4
Slope = 0

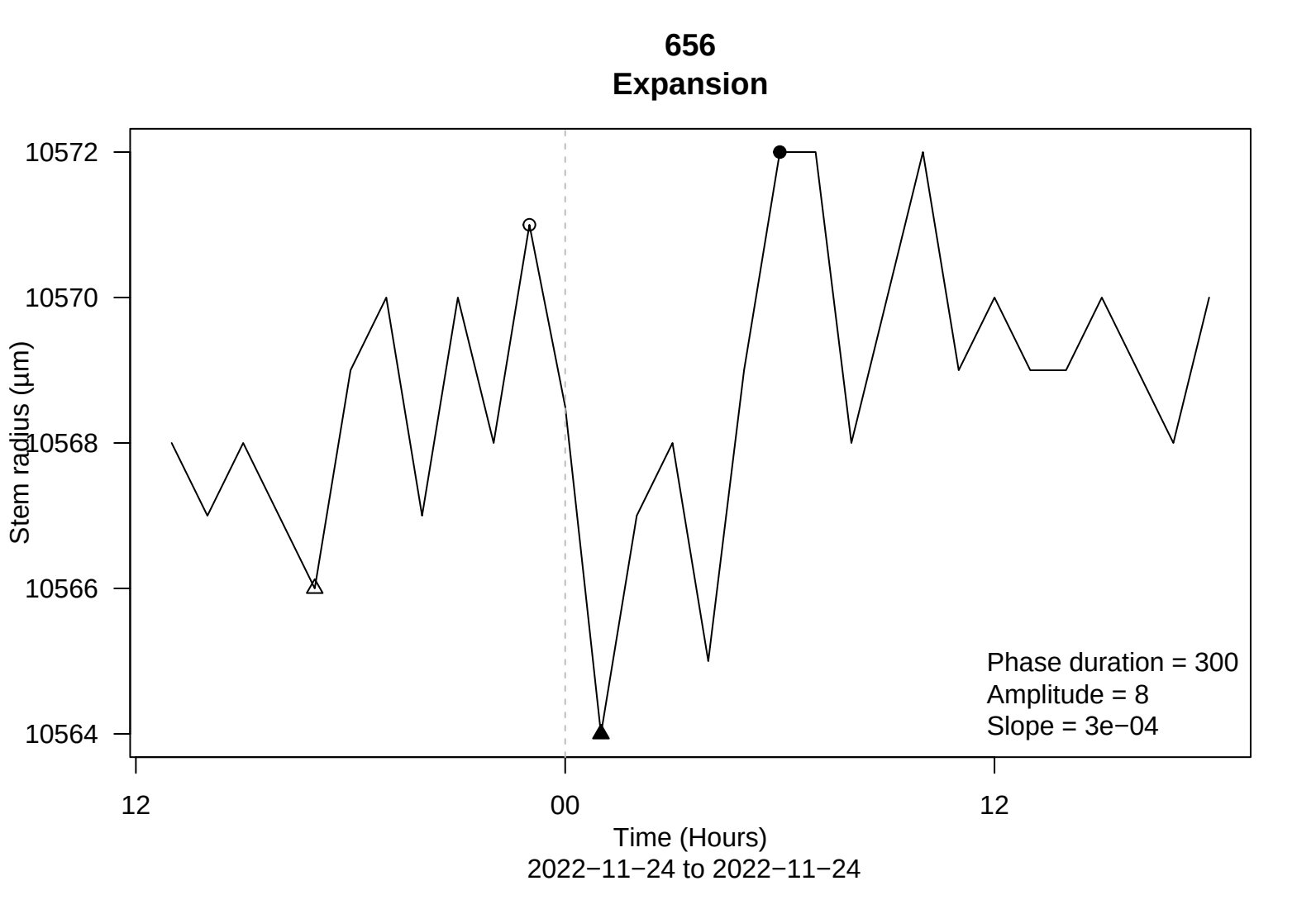

656
Shrinkage
10595
10590
10585
10580
Stem radius (µm)
Phase duration = 1260
Amplitude = −13
Slope = −1e−04
00
12
00
12
Time (Hours)
2022−11−21 to 2022−11−22

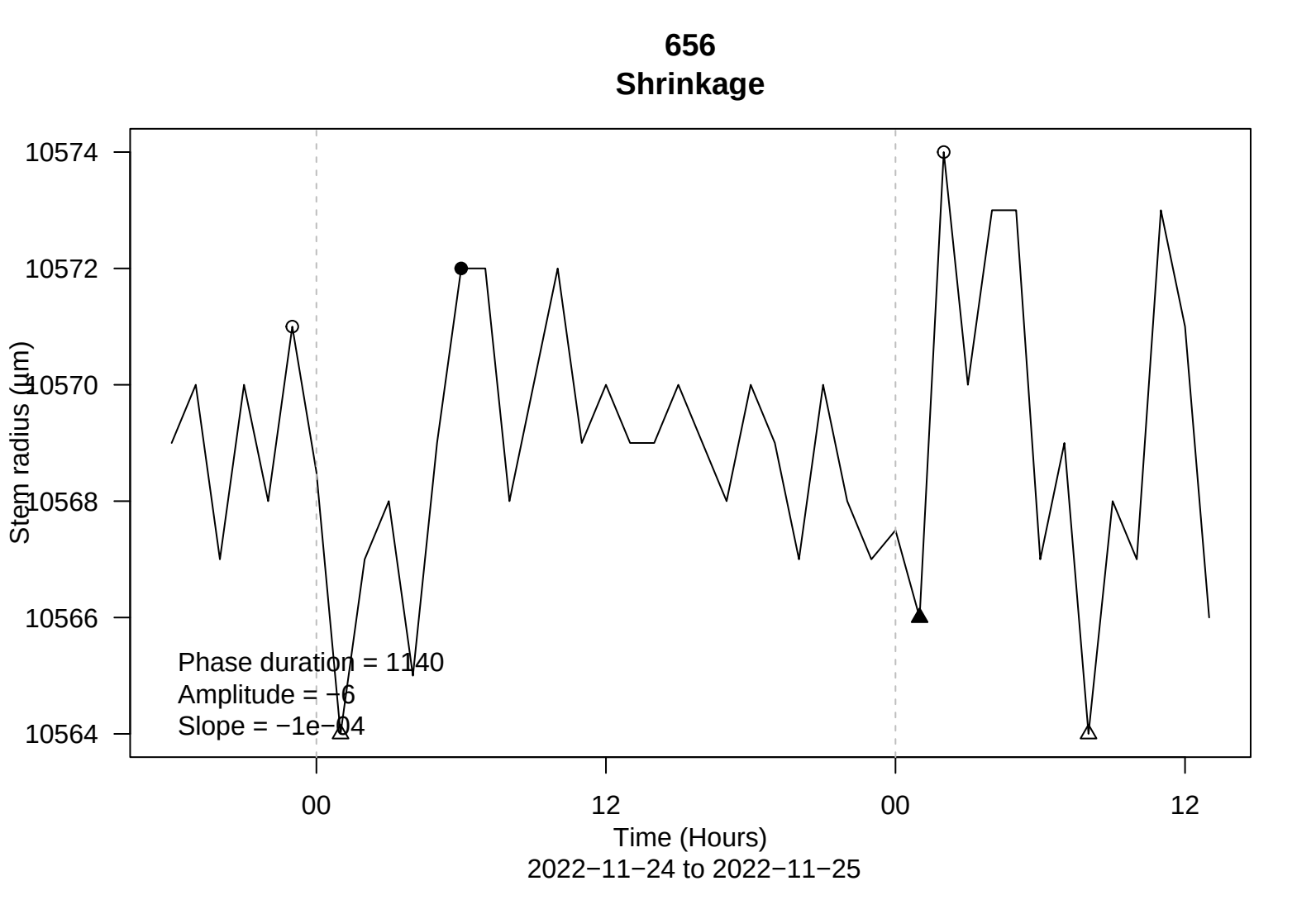

656
Shrinkage
10585
10580
10575
10570
Stem radius (µm)
Phase duration = 1020
Amplitude = −17
Slope = −2e−04
00
12
00
Time (Hours)
2022−11−22 to 2022−11−22

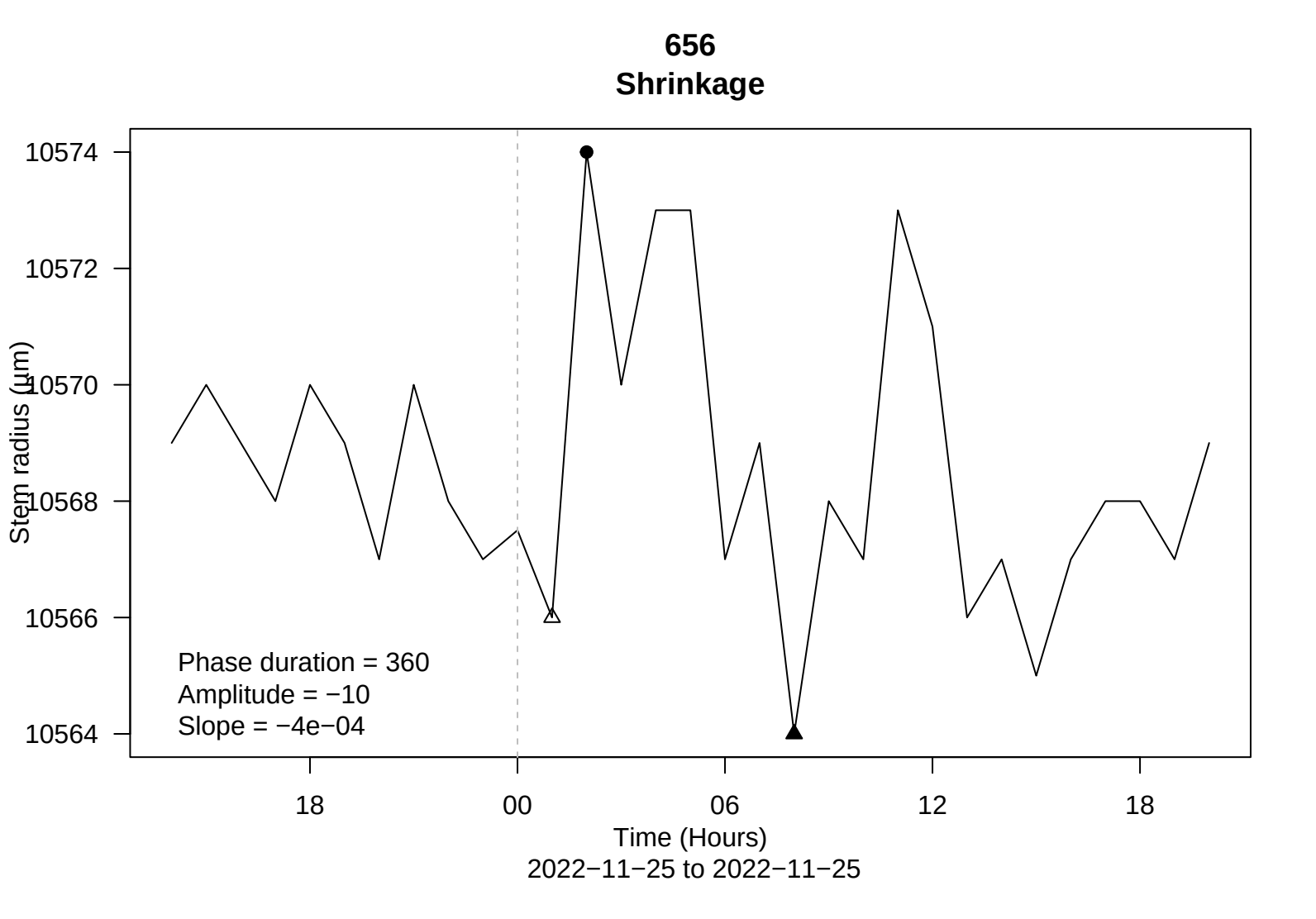

656
Expansion
10580
10575
10570
Stem radius (µm)
Phase duration = 600
Amplitude = 7
Slope = 0
12
00
12
Time (Hours)
2022−11−22 to 2022−11−23

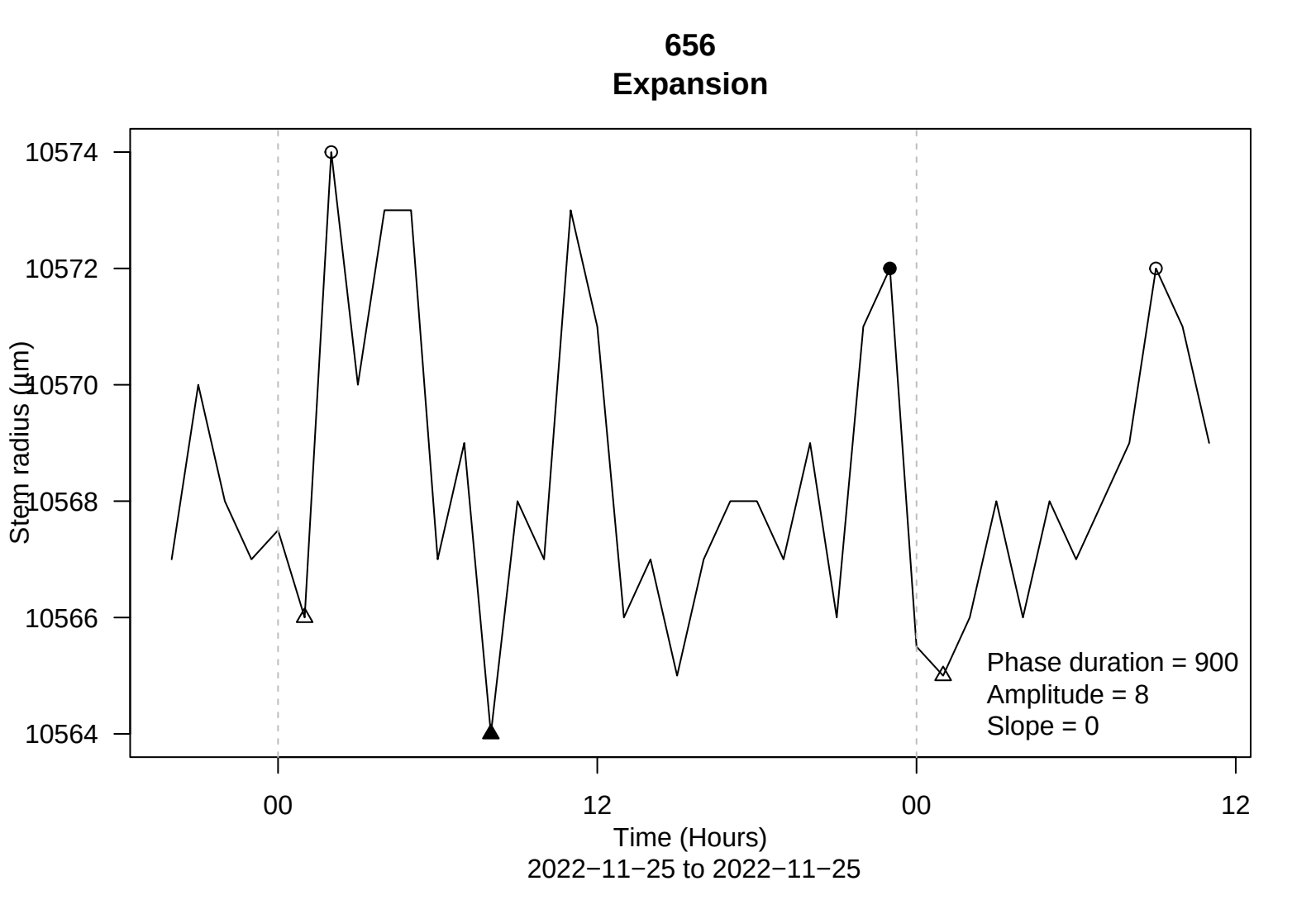

656
Shrinkage
10574
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 540
Amplitude = −8
Slope = −2e−04
00
12
00
Time (Hours)
2022−11−23 to 2022−11−23

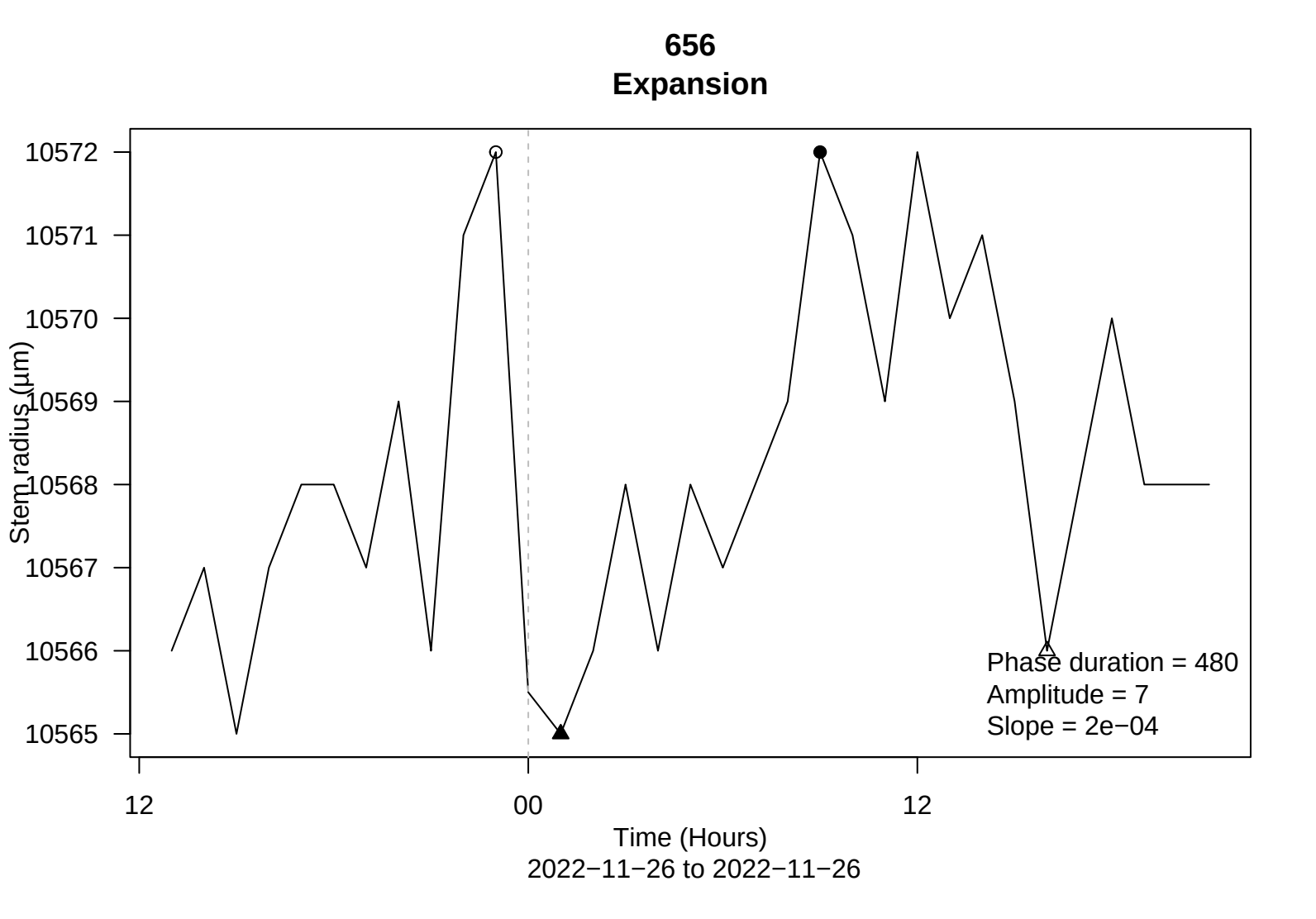

656
Expansion
10574
10572
10570
10568
10566
10564
Stem radius (µm)
12
00
12
Time (Hours)
2022−11−23 to 2022−11−23
Phase duration = 360
Amplitude = 5
Slope = 1e−04

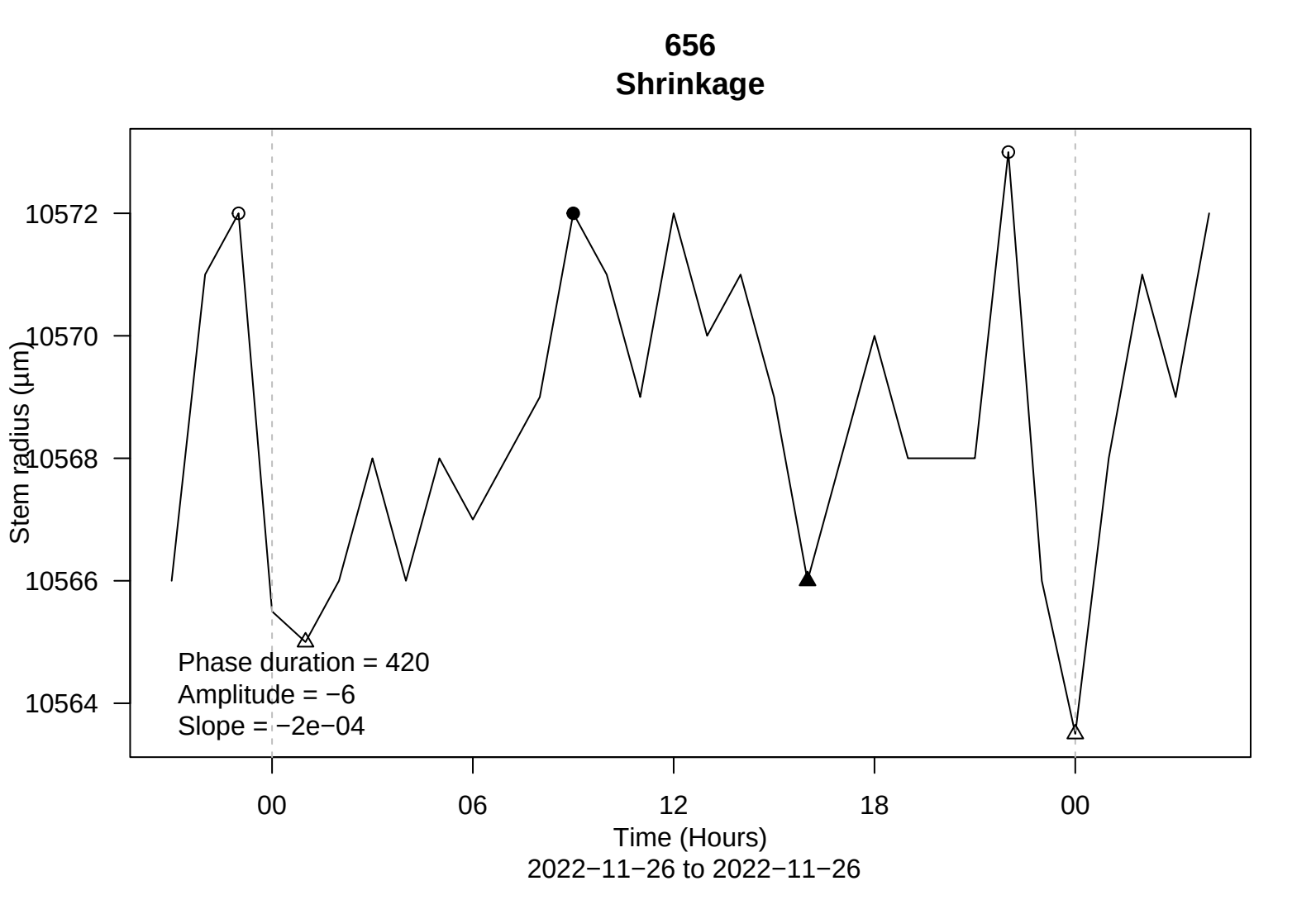

656
Expansion
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 300
Amplitude = 8
Slope = 3e−04
12
00
12
Time (Hours)
2022−11−24 to 2022−11−24

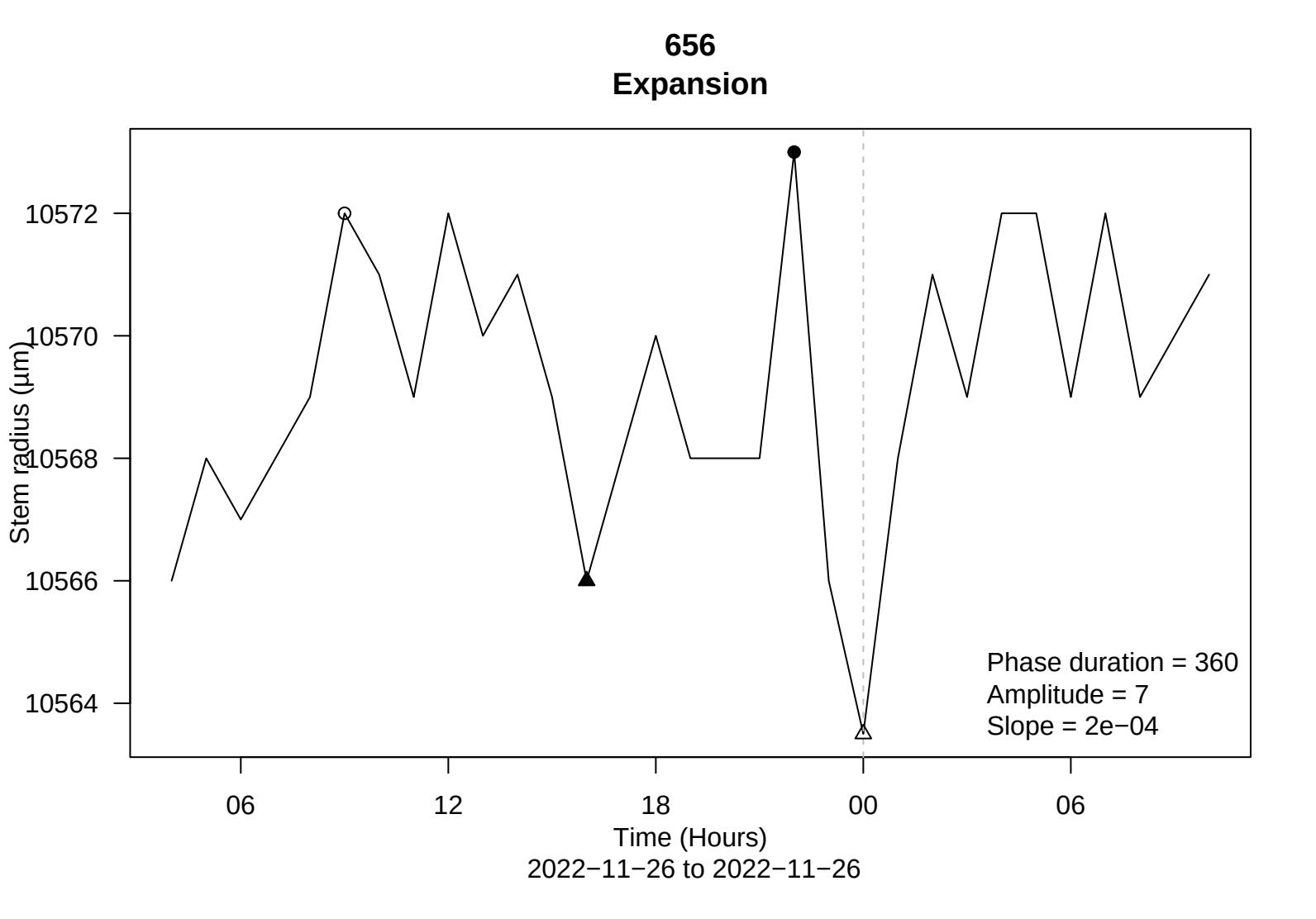

656
Shrinkage
10574
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 1140
Amplitude = −6
Slope = −1e−04
00
12
00
12
Time (Hours)
2022−11−24 to 2022−11−25

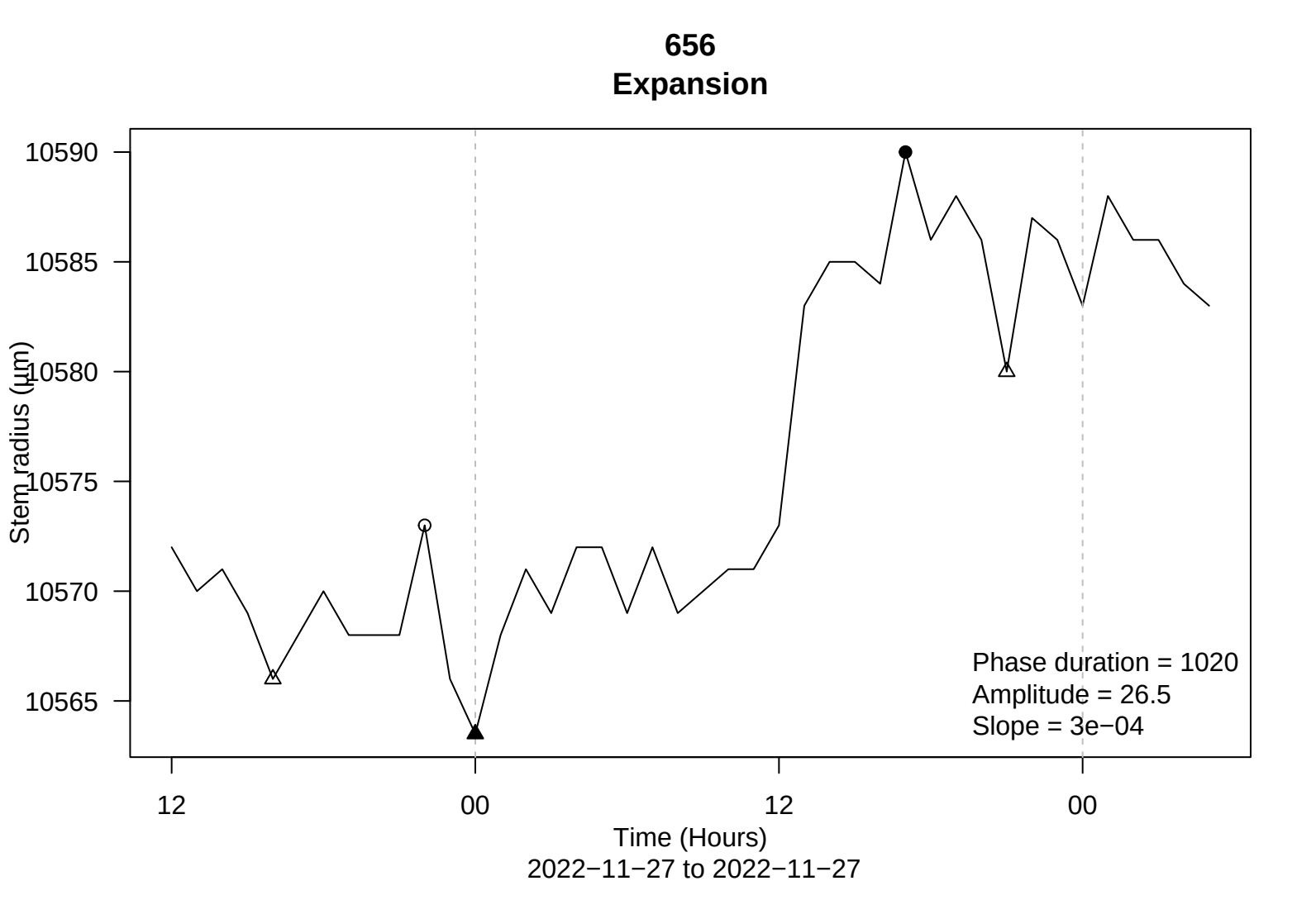

656
Shrinkage
10574
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 360
Amplitude = −10
Slope = −4e−04
18
00
06
12
18
Time (Hours)
2022−11−25 to 2022−11−25

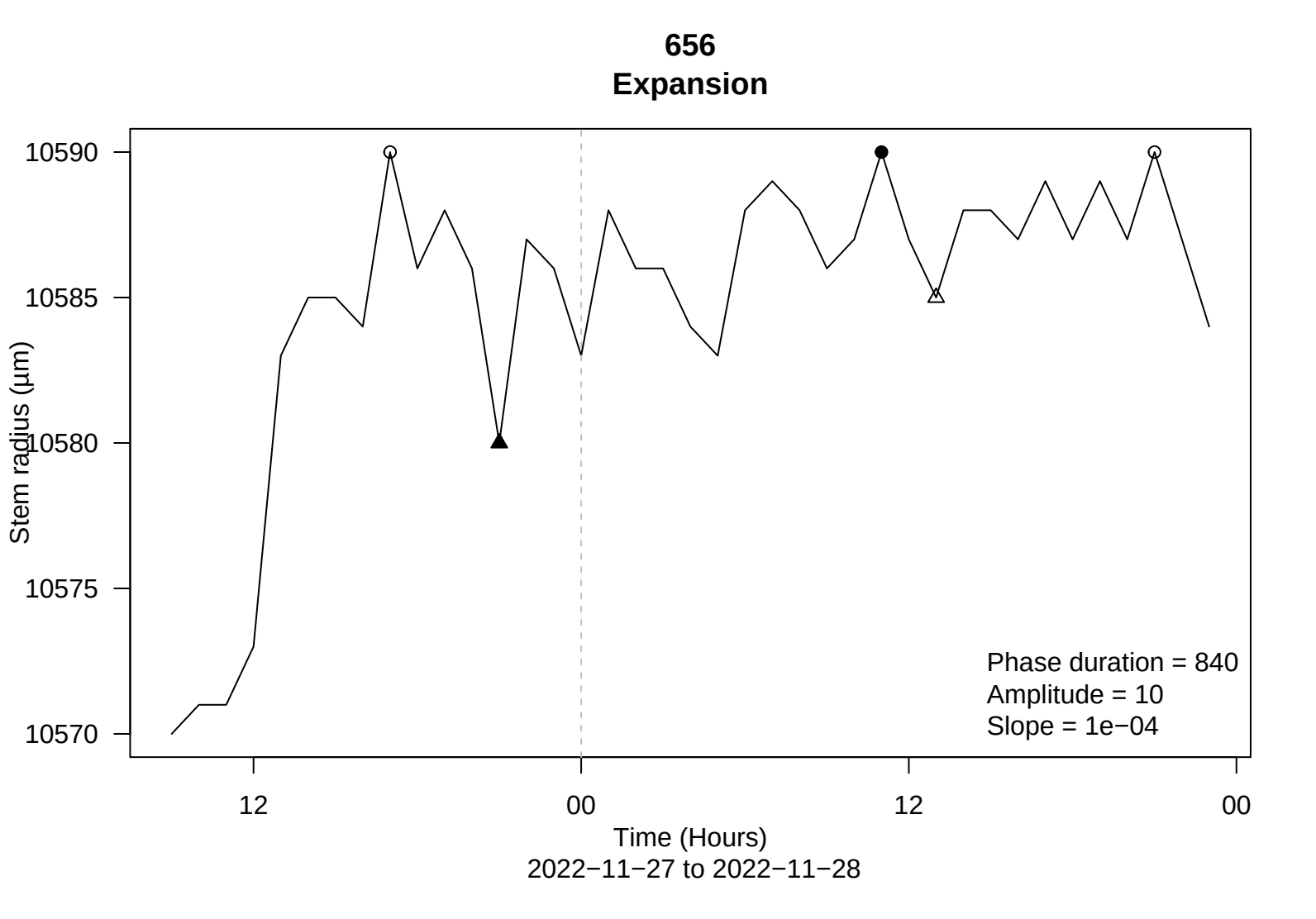

656
Expansion
10574
10572
10570
10568
10566
10564
Stem radius (µm)
00
12
00
12
Time (Hours)
2022−11−25 to 2022−11−25
Phase duration = 900
Amplitude = 8
Slope = 0

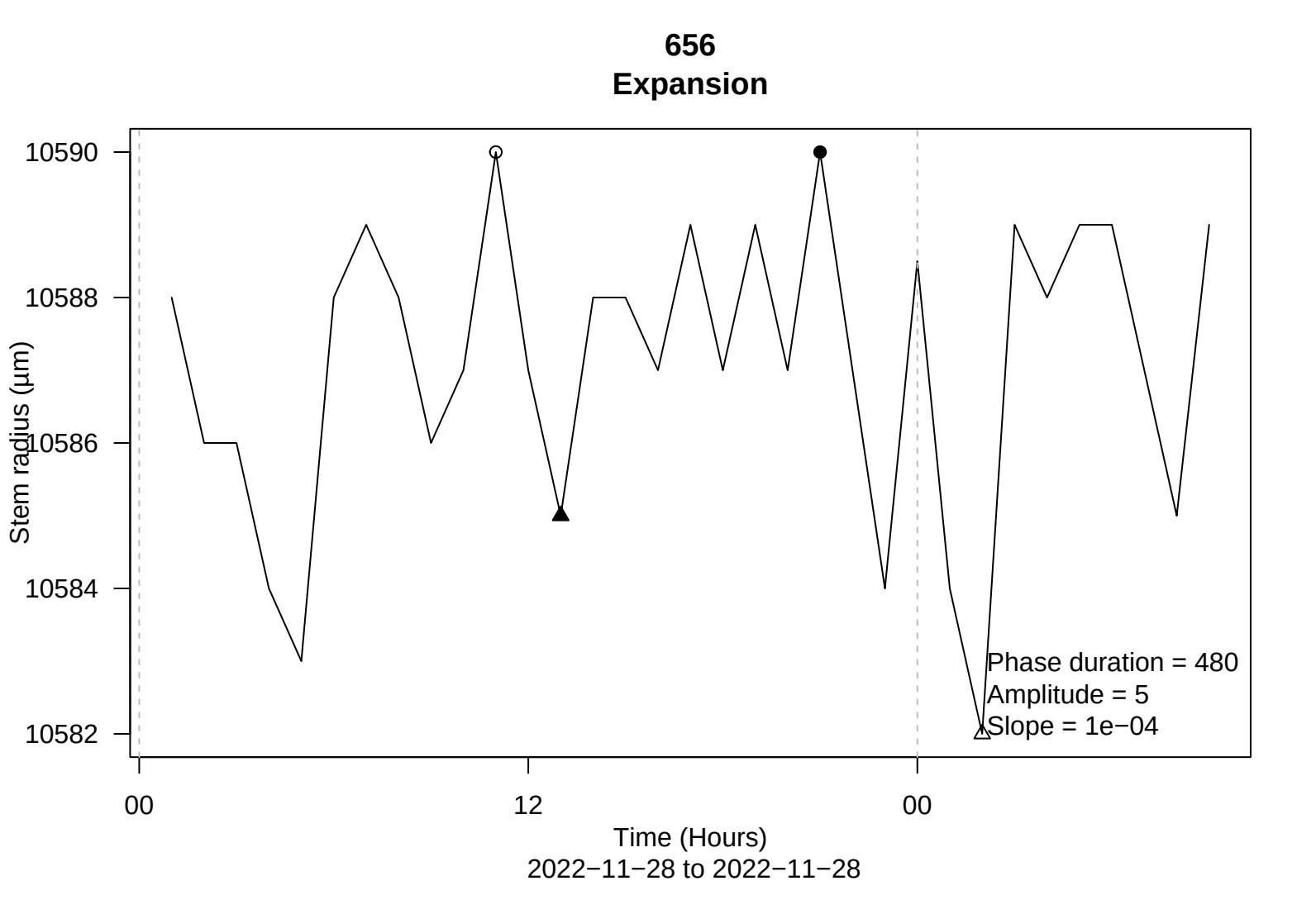

656
Expansion
10572
10571
10570
10569
10568
10567
10566
10565
Stem radius (µm)
Phase duration = 480
Amplitude = 7
Slope = 2e−04
12
00
12
Time (Hours)
2022−11−26 to 2022−11−26

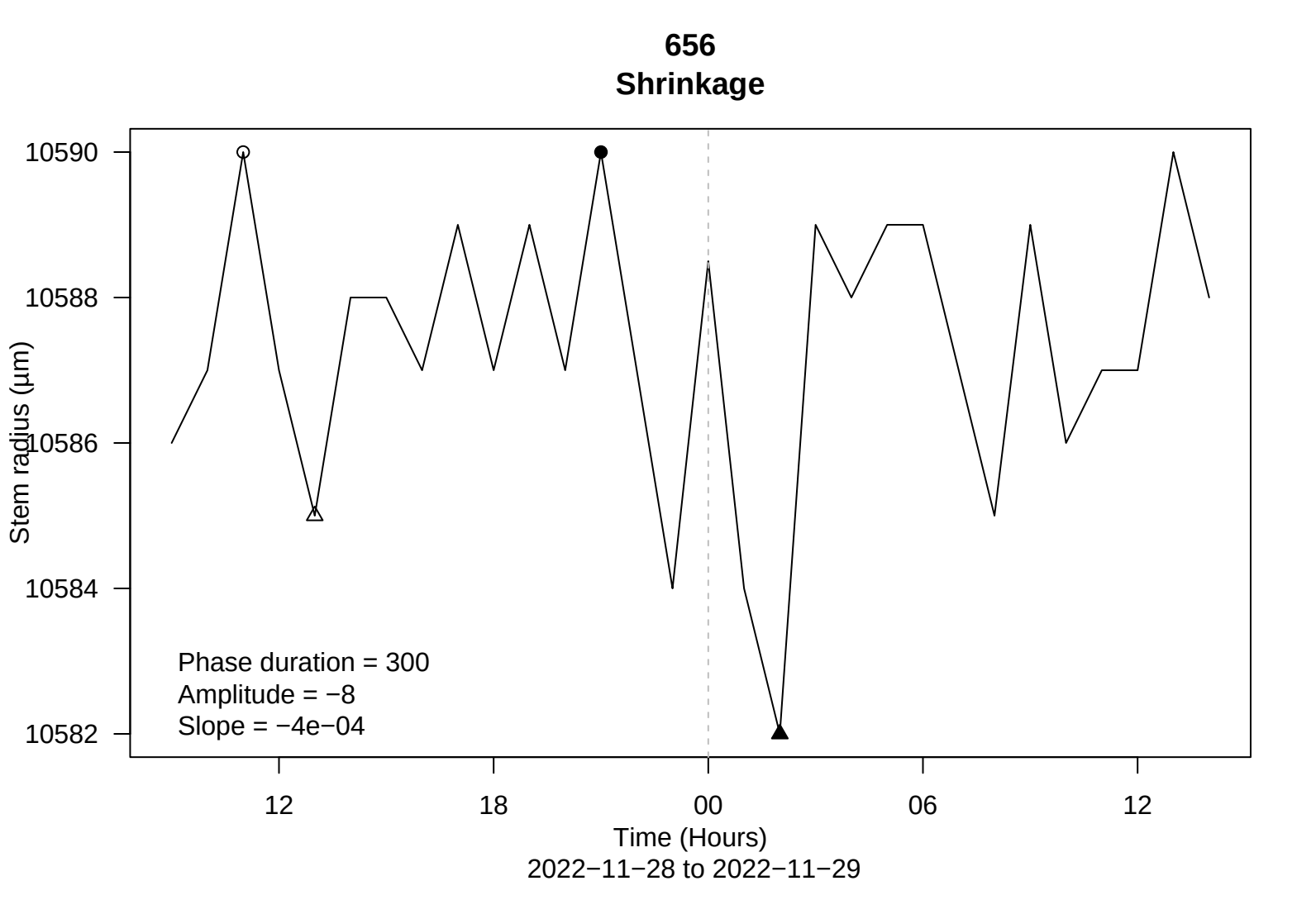

656
Shrinkage
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 420
Amplitude = −6
Slope = −2e−04
00
06
12
18
00
Time (Hours)
2022−11−26 to 2022−11−26

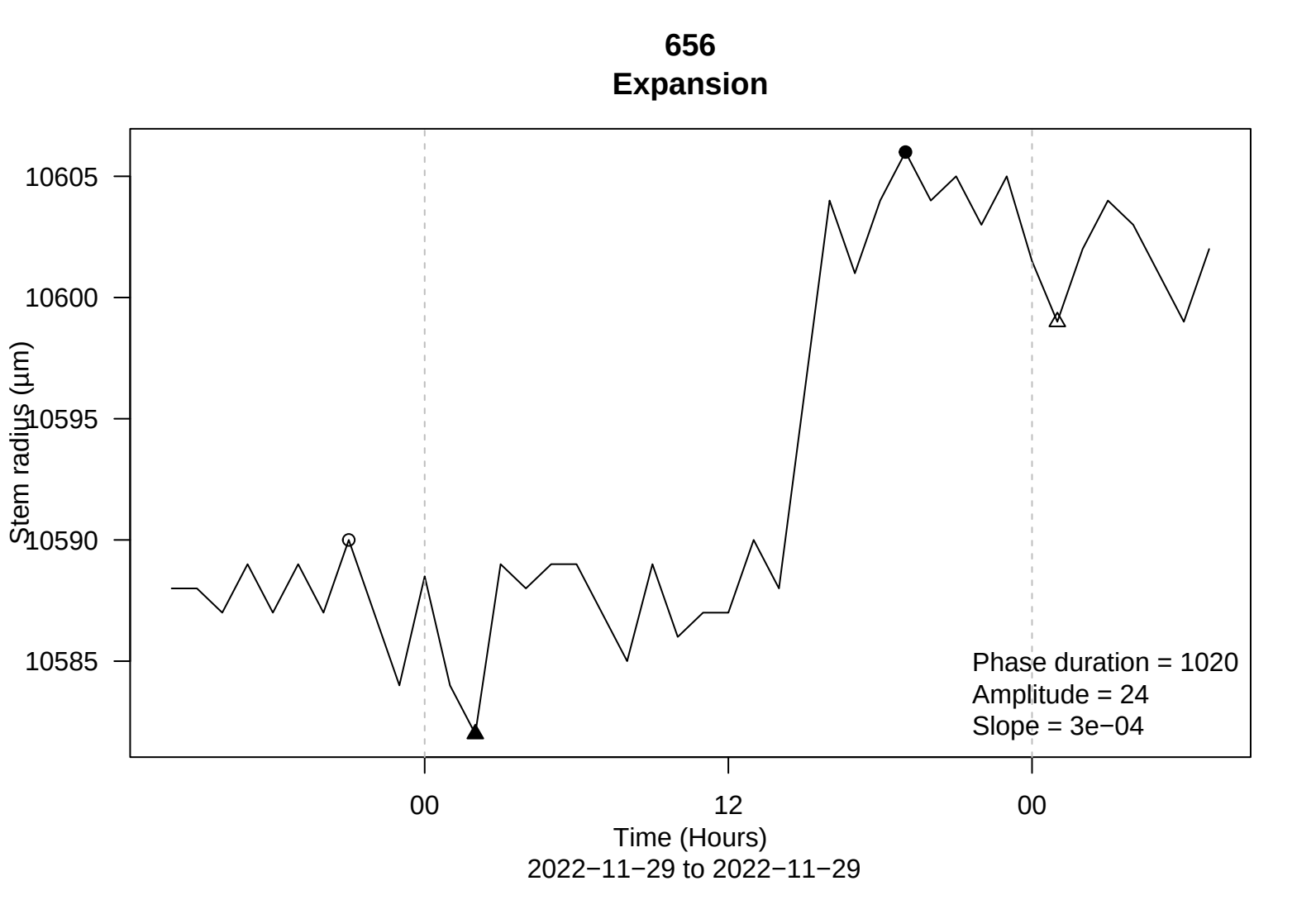

656
Expansion
10572
10570
10568
10566
10564
Stem radius (µm)
Phase duration = 360
Amplitude = 7
Slope = 2e−04
06
12
18
00
06
Time (Hours)
2022−11−26 to 2022−11−26

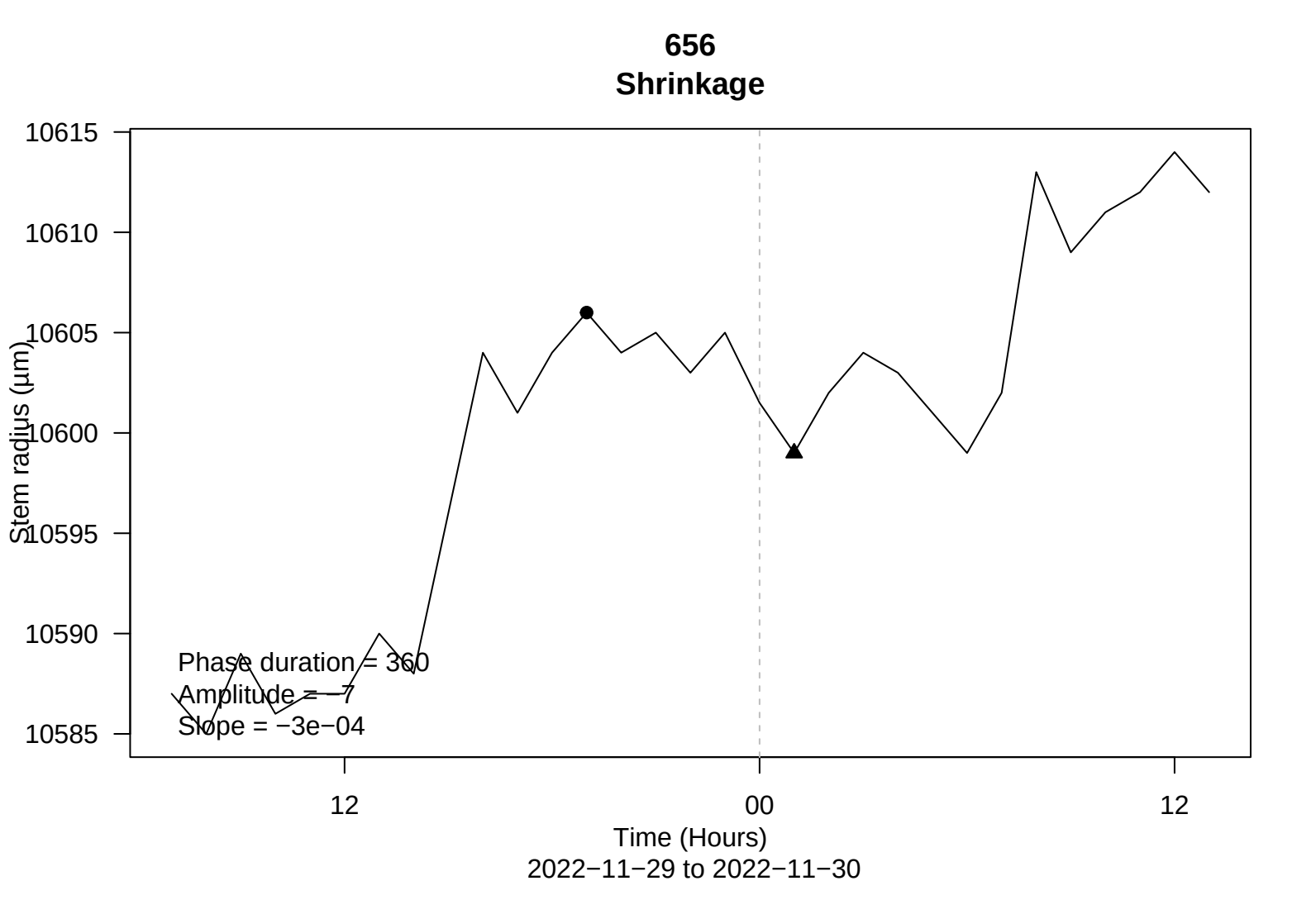

656
Expansion
10590
10585
10580
10575
10570
10565
Stem radius (µm)
Phase duration = 1020
Amplitude = 26.5
Slope = 3e−04
12
00
12
00
Time (Hours)
2022−11−27 to 2022−11−27

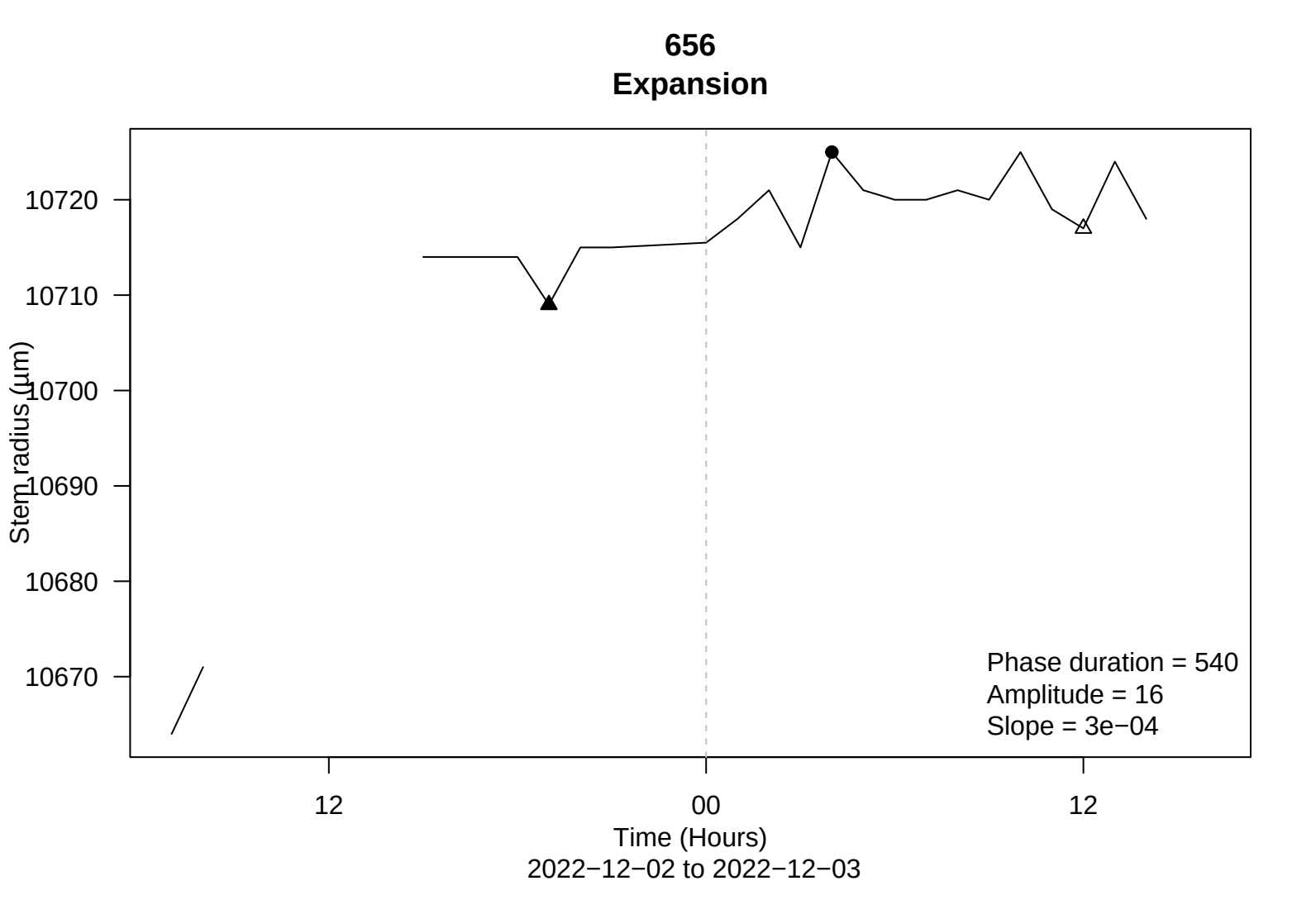

656
Expansion
10590
10585
10580
10575
10570
Stem radius (µm)
12
00
12
00
Time (Hours)
2022−11−27 to 2022−11−28
Phase duration = 840
Amplitude = 10
Slope = 1e−04

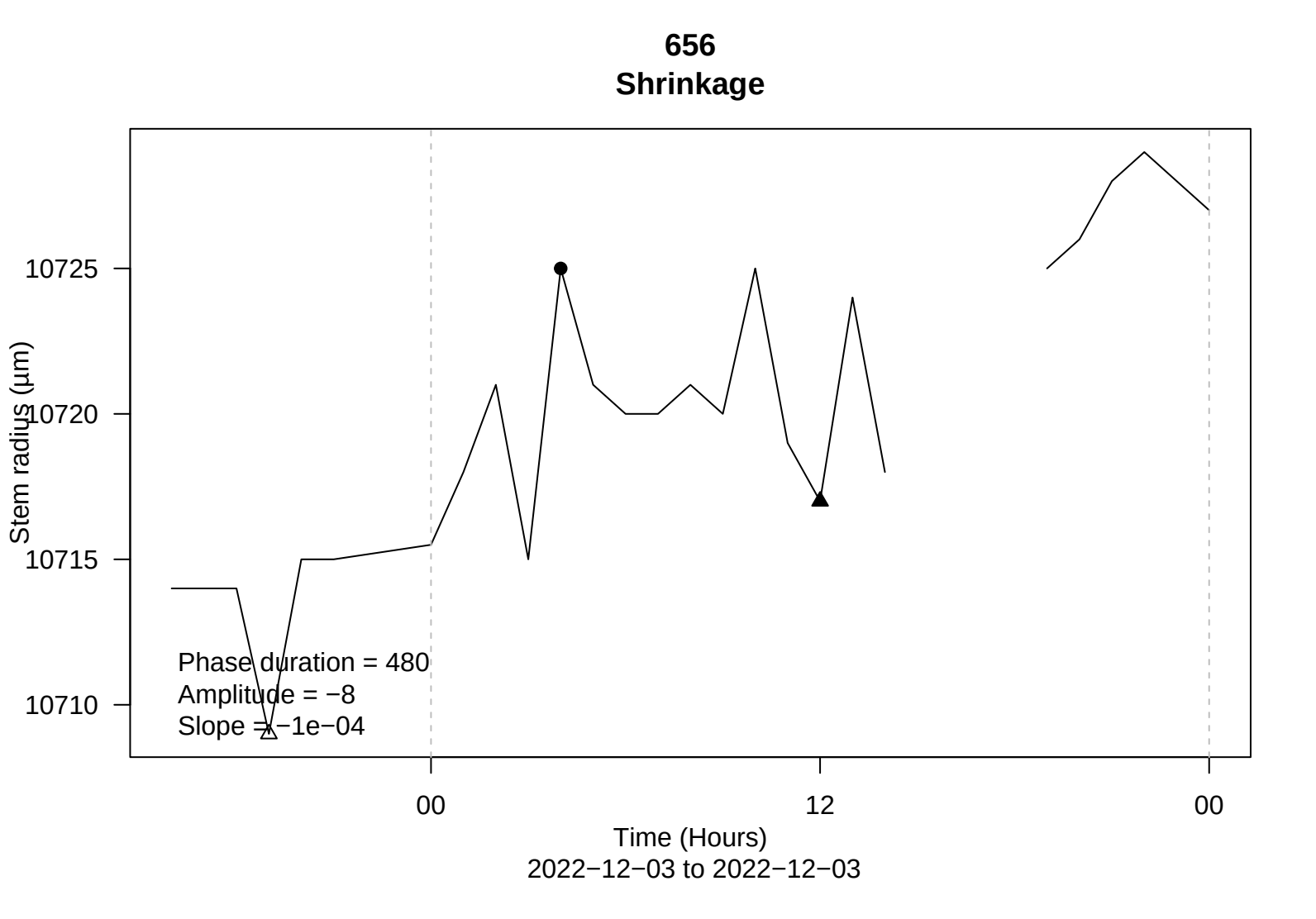

656
Expansion
10590
10588
10586
10584
10582
Stem radius (µm)
Phase duration = 480
Amplitude = 5
Slope = 1e−04
00
12
00
Time (Hours)
2022−11−28 to 2022−11−28

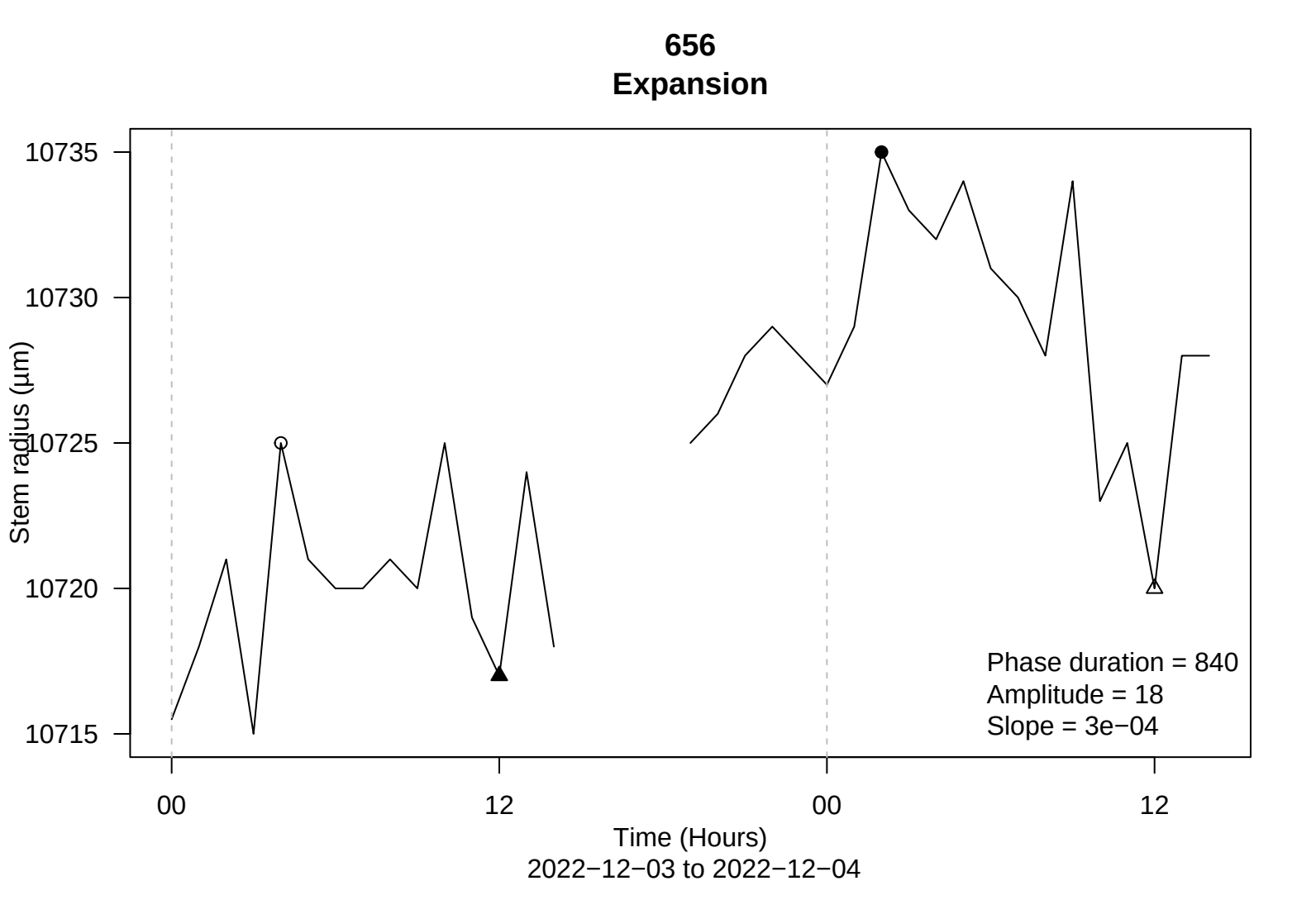

656
Shrinkage
10590
10588
10586
10584
10582
Stem radius (µm)
Phase duration = 300
Amplitude = −8
Slope = −4e−04
12
18
00
06
12
Time (Hours)
2022−11−28 to 2022−11−29

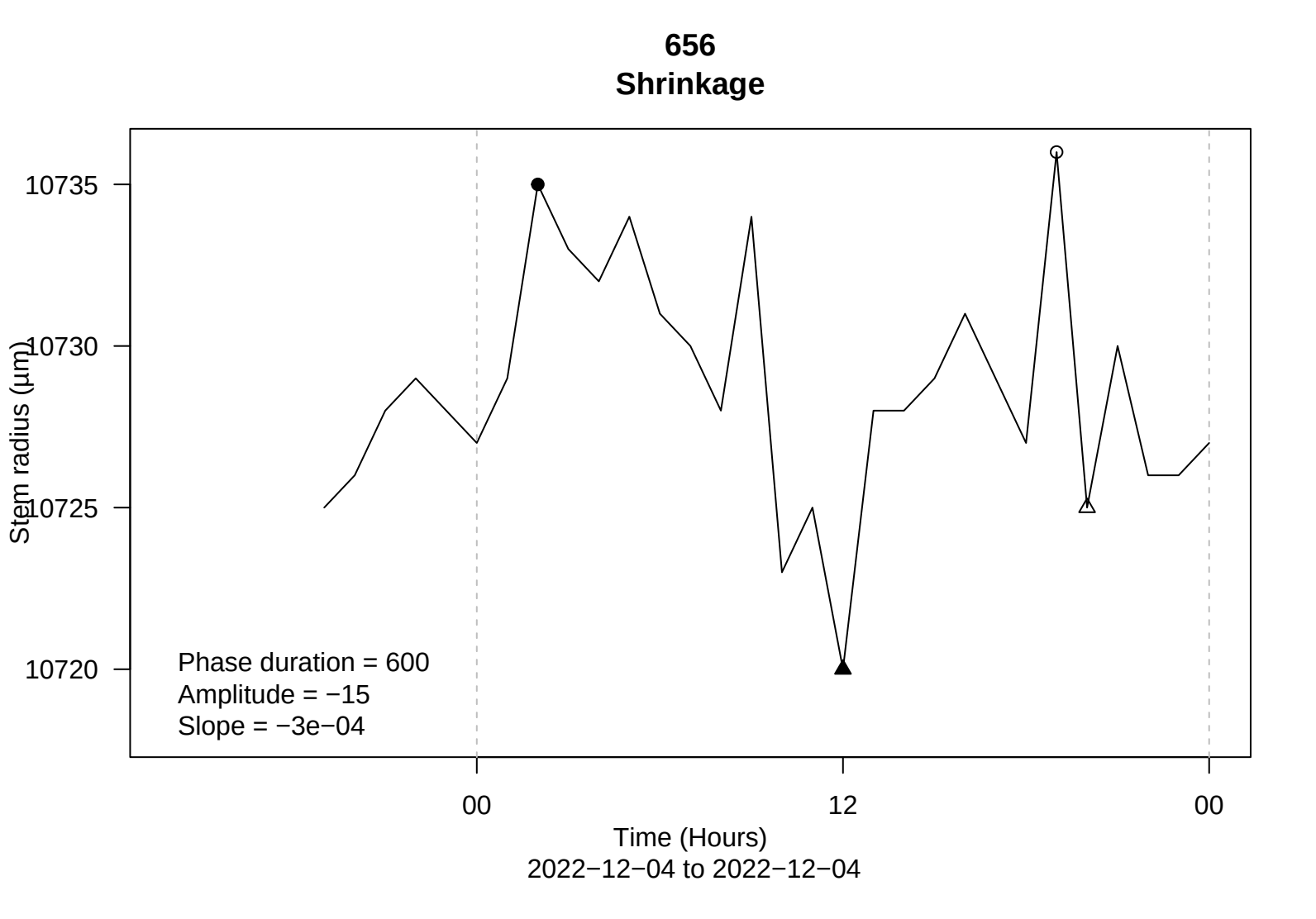

656
Expansion
10605
10600
10595
10590
10585
Stem radius (µm)
Phase duration = 1020
Amplitude = 24
Slope = 3e−04
00
12
00
Time (Hours)
2022−11−29 to 2022−11−29

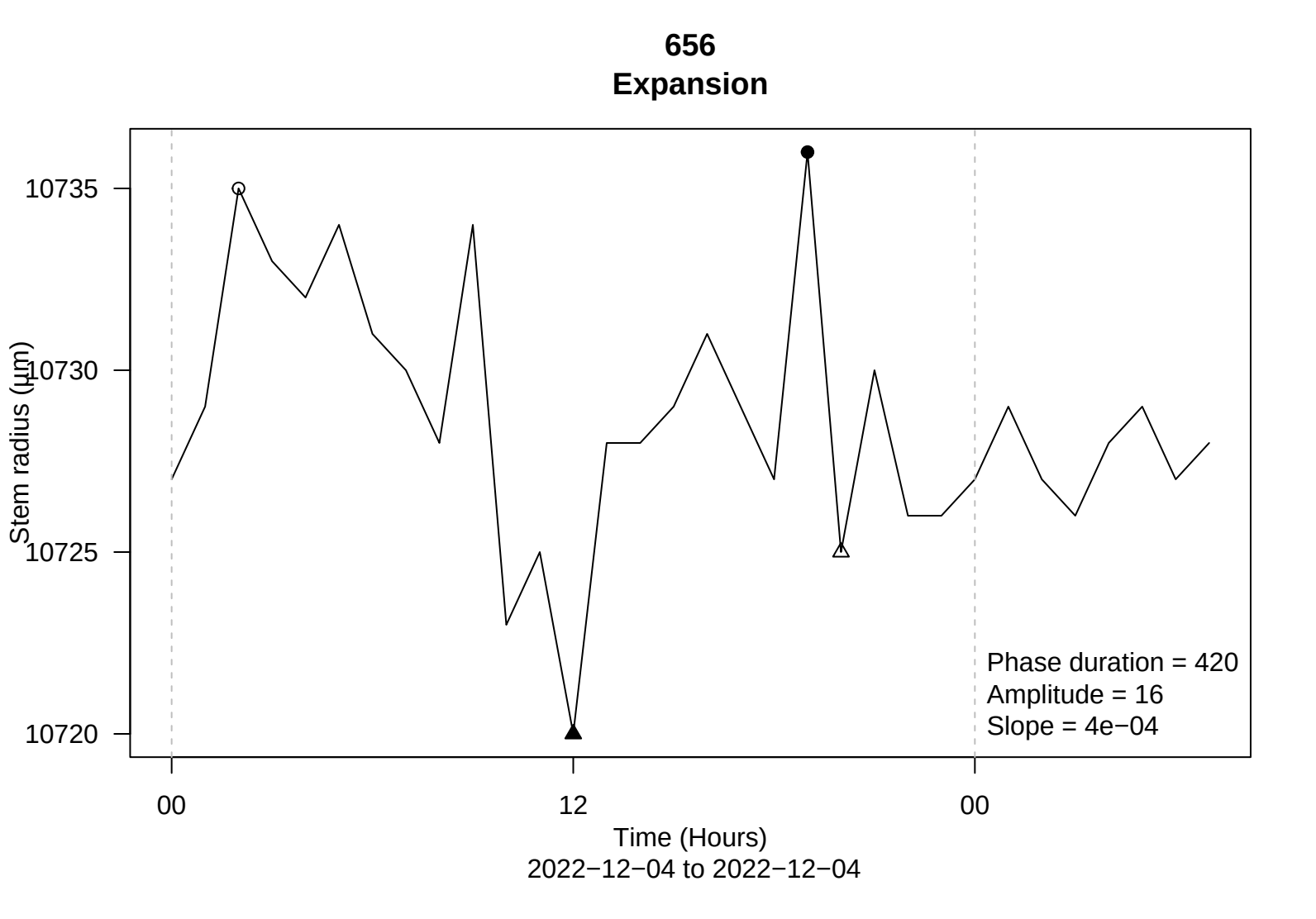

656
Shrinkage
10615
10610
10605
10600
10595
10590
10585
Stem radius (µm)
Phase duration = 360
Amplitude = −7
Slope = −3e−04
12
00
12
Time (Hours)
2022−11−29 to 2022−11−30

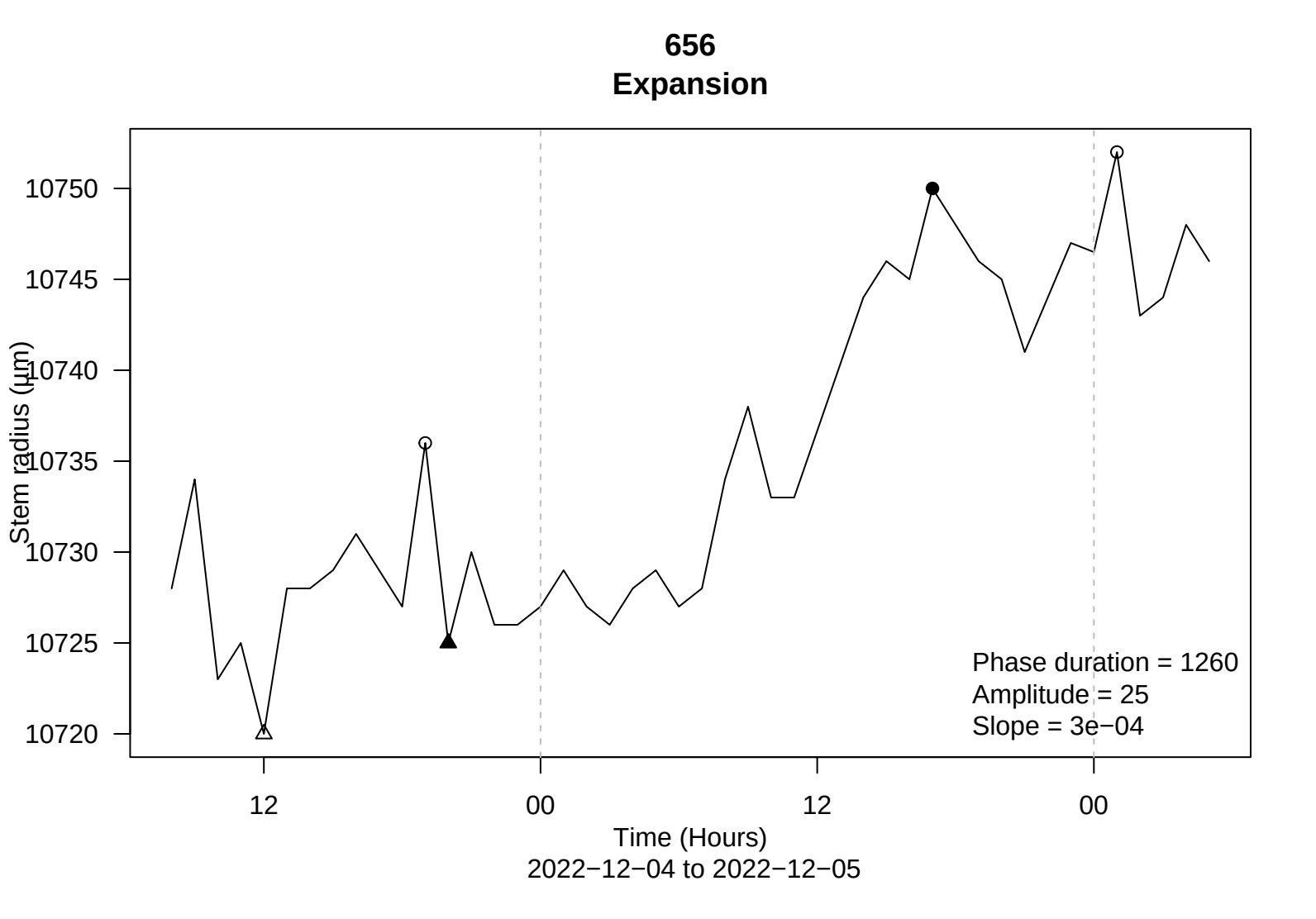

656
Expansion
10720
10710
10700
10690
10680
10670
Stem radius (µm)
Phase duration = 540
Amplitude = 16
Slope = 3e−04
12
00
12
Time (Hours)
2022−12−02 to 2022−12−03

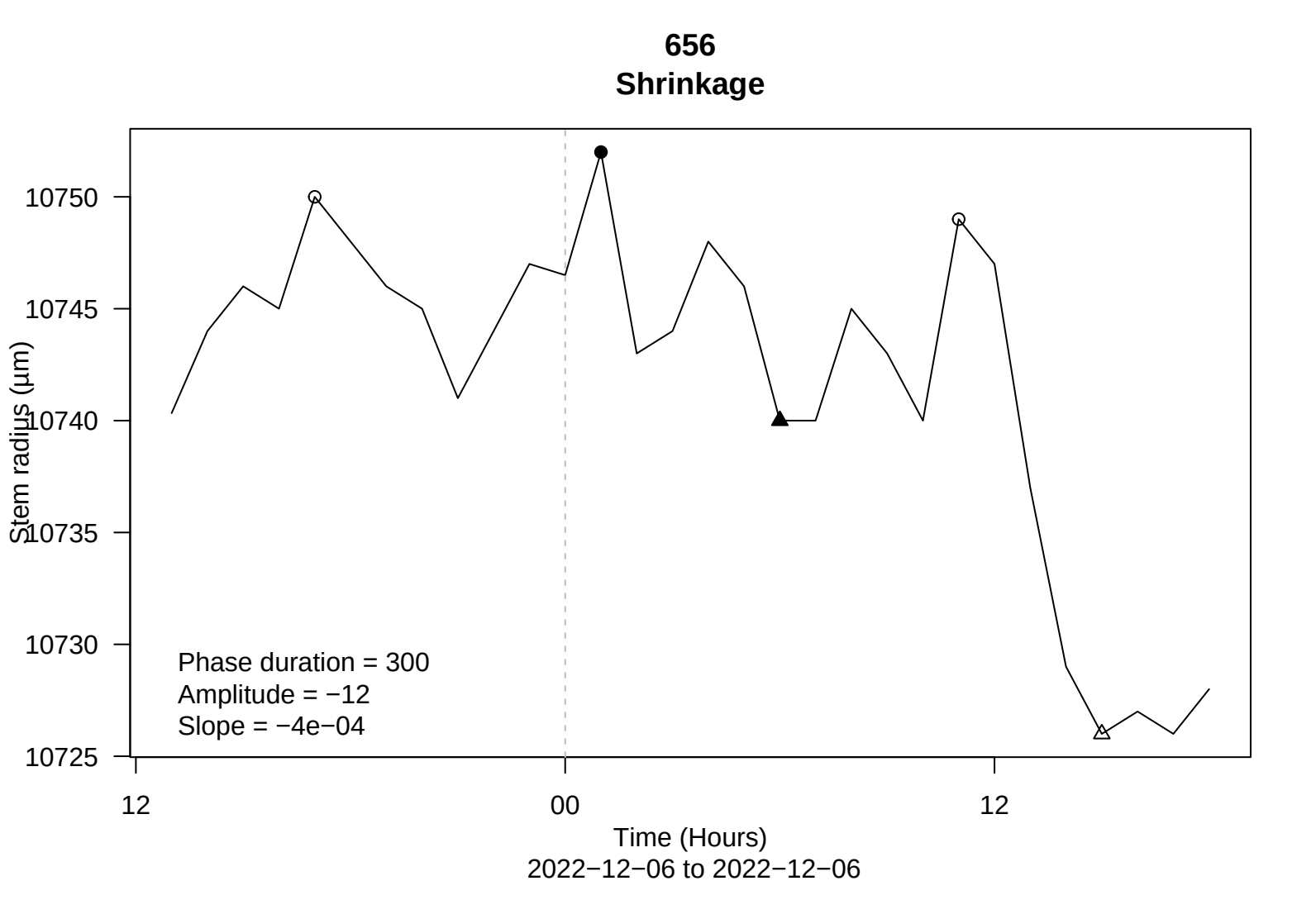

656
Shrinkage
Stem radius (µm)
10725
10720
10715
10710
Phase duration = 480
Amplitude = −8
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−03 to 2022−12−03

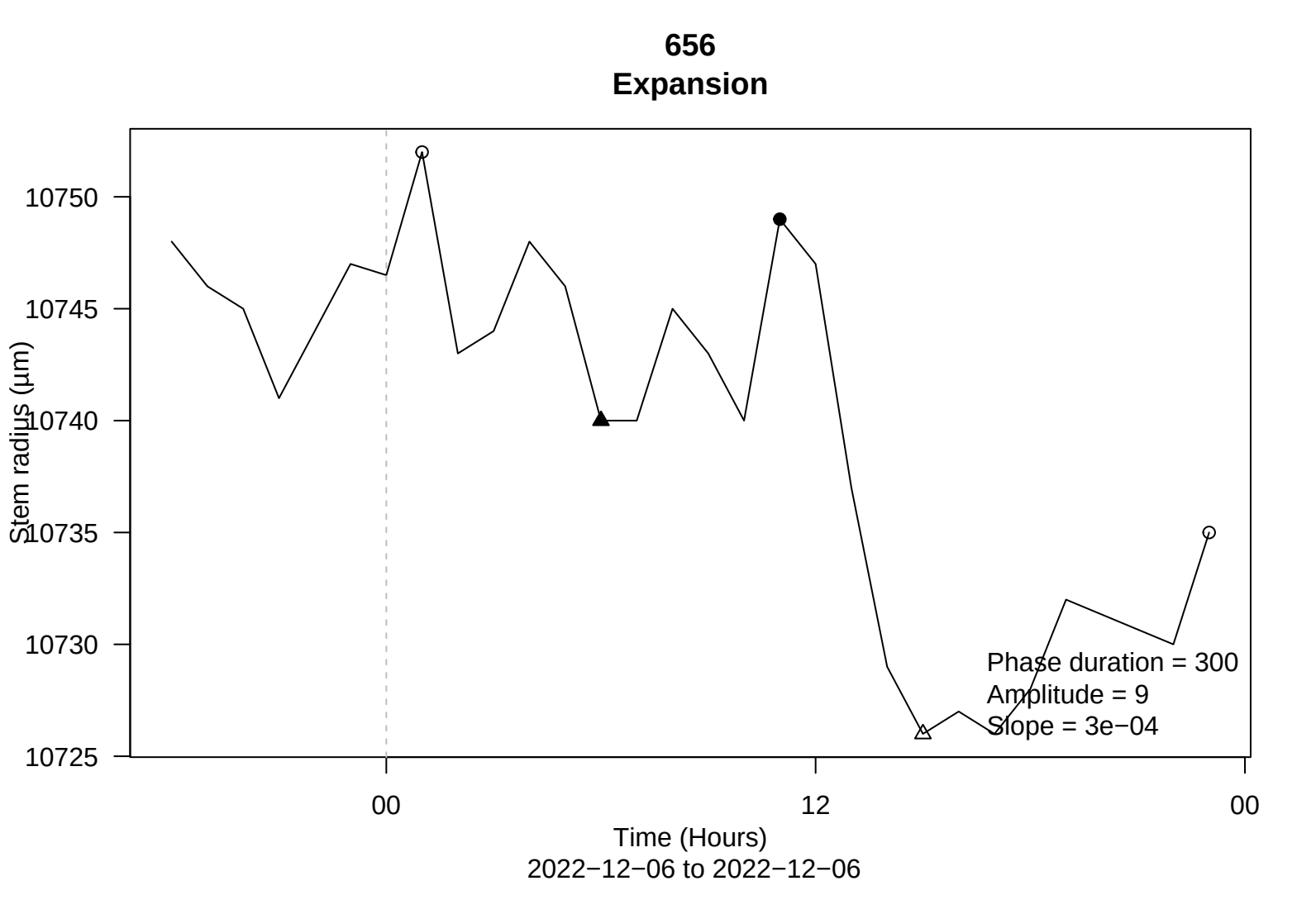

656
Expansion
10735
10730
10725
10720
10715
Stem radius (µm)
00
12
00
12
Time (Hours)
2022−12−03 to 2022−12−04
Phase duration = 840
Amplitude = 18
Slope = 3e−04

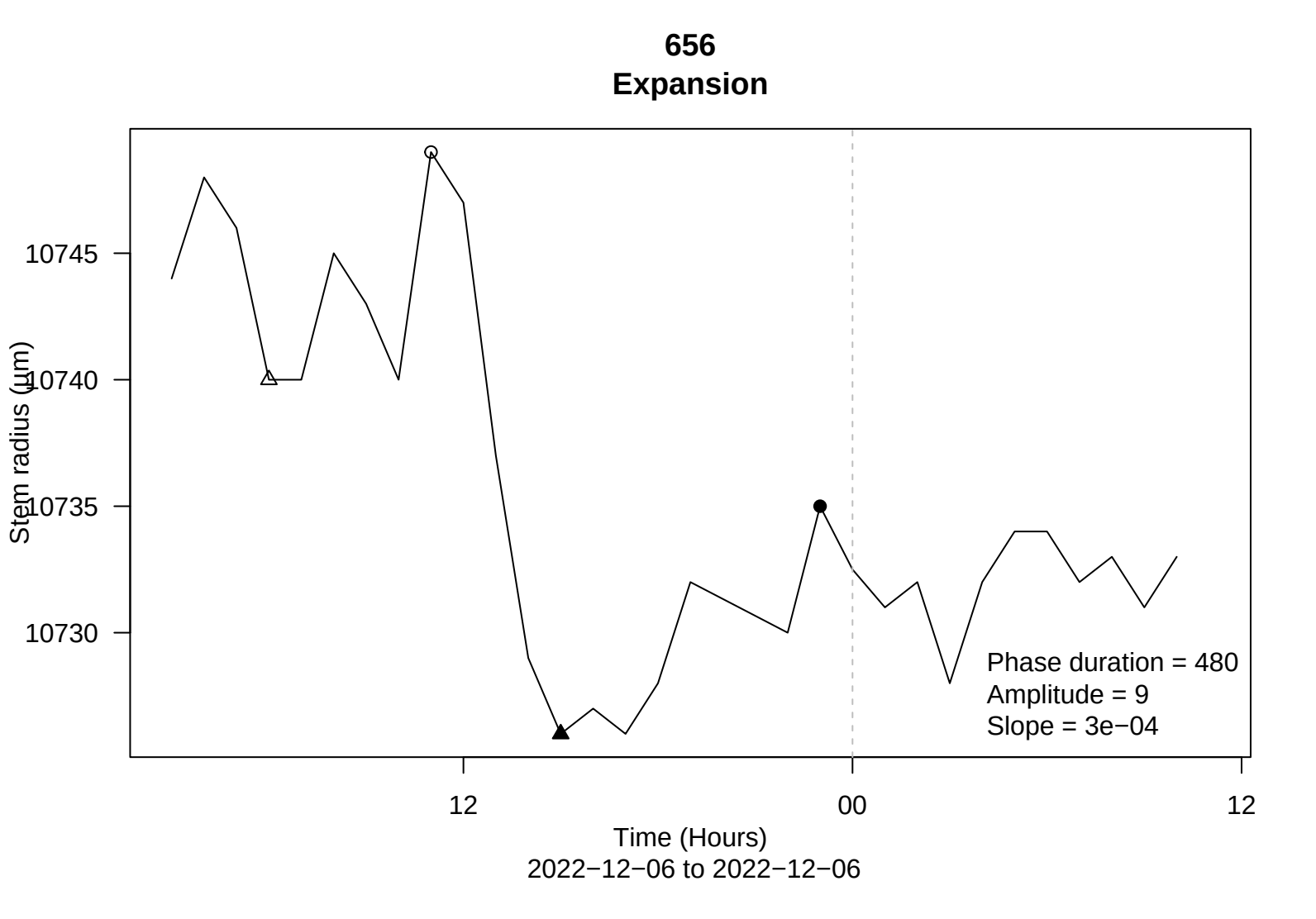

656
Shrinkage
10735
10730
10725
10720
Stem radius (µm)
Phase duration = 600
Amplitude = −15
Slope = −3e−04
00
12
00
Time (Hours)
2022−12−04 to 2022−12−04

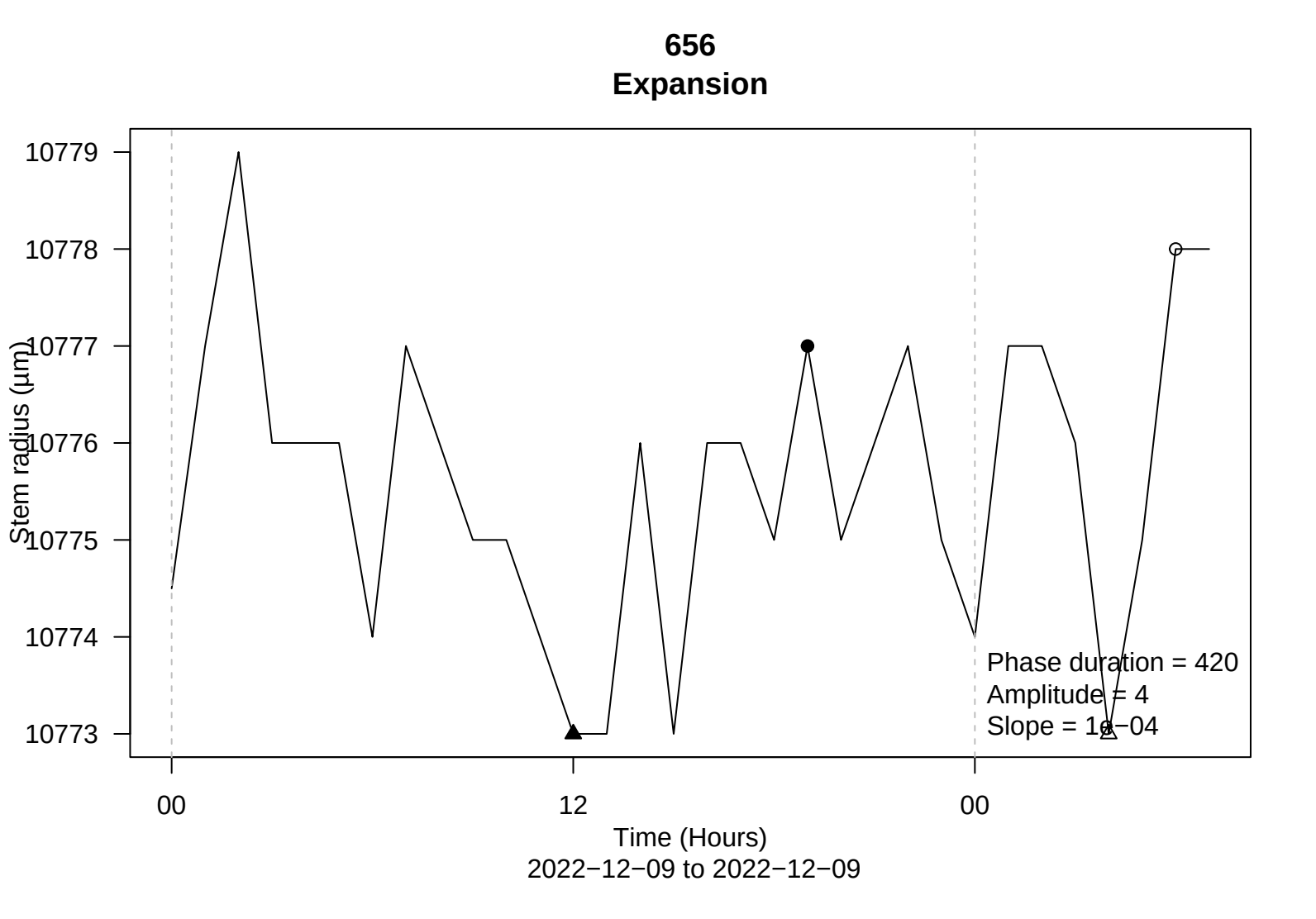

656
Expansion
10735
10730
10725
10720
Stem radius (µm)
Phase duration = 420
Amplitude = 16
Slope = 4e−04
00
12
00
Time (Hours)
2022−12−04 to 2022−12−04

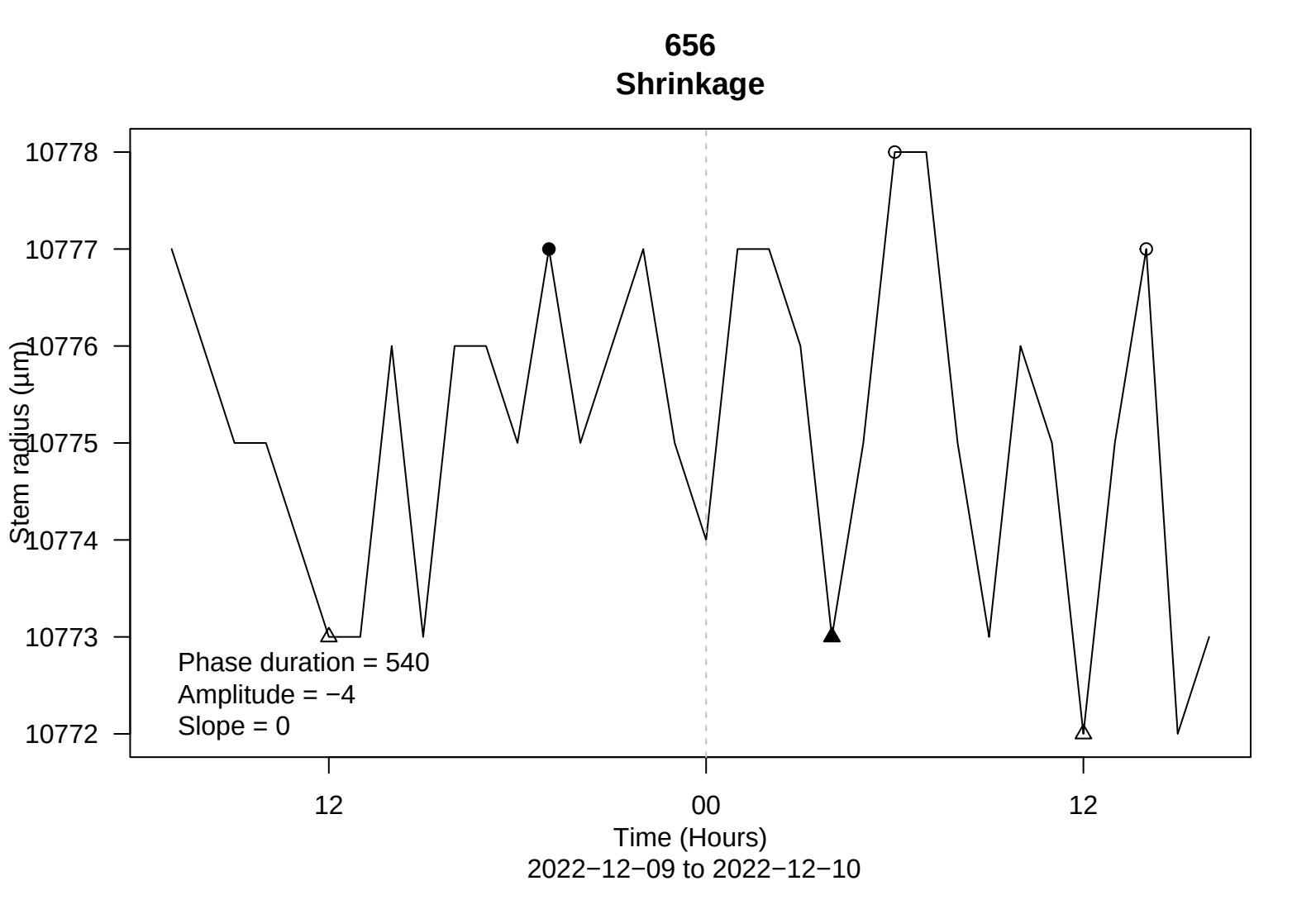

656
Expansion
10750
10745
10740
10735
10730
10725
10720
Stem radius (µm)
12
00
12
00
Time (Hours)
2022−12−04 to 2022−12−05
Phase duration = 1260
Amplitude = 25
Slope = 3e−04

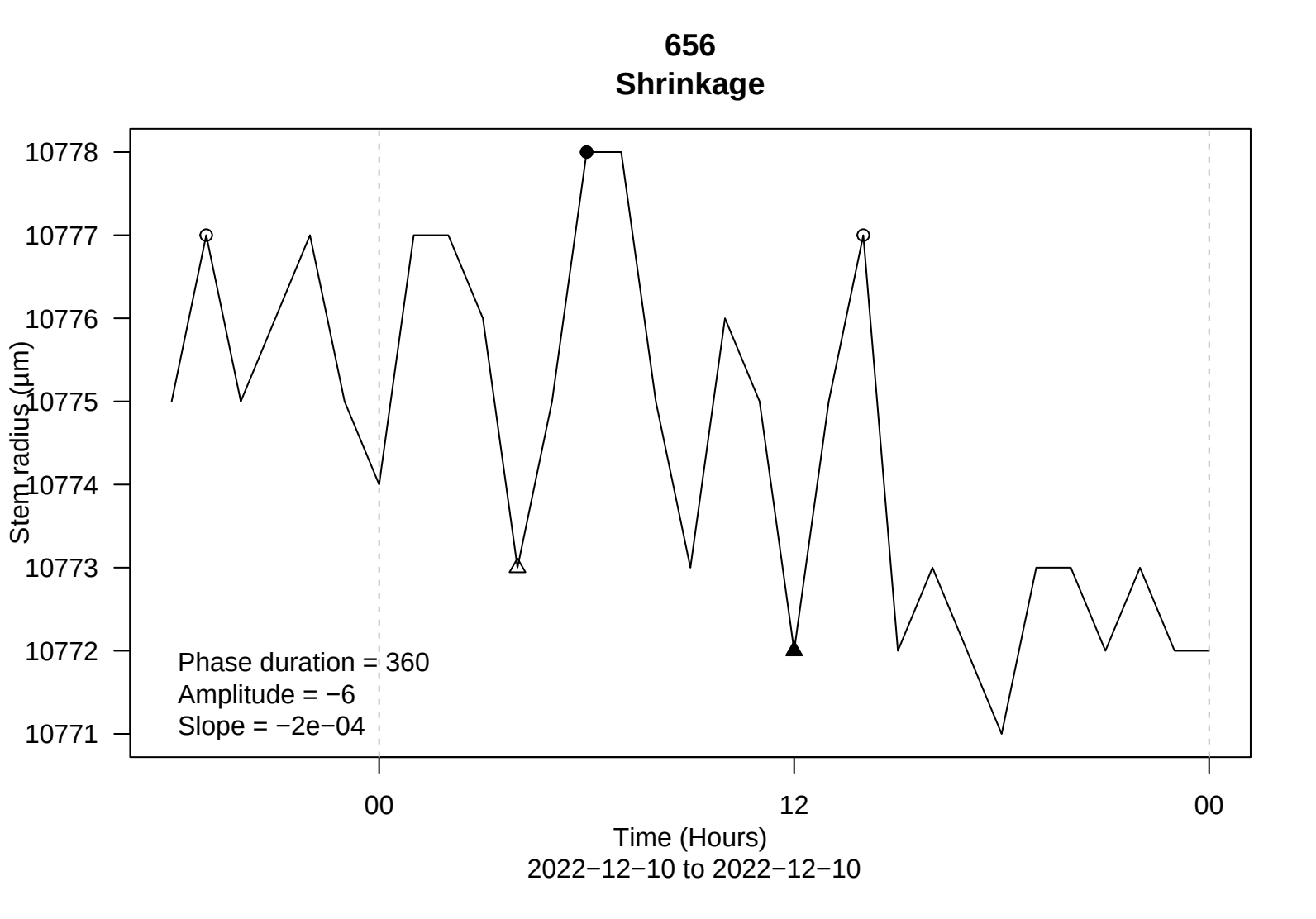

656
Shrinkage
10750
10745
10740
10735
10730
10725
Stem radius (µm)
Phase duration = 300
Amplitude = −12
Slope = −4e−04
12
00
12
Time (Hours)
2022−12−06 to 2022−12−06

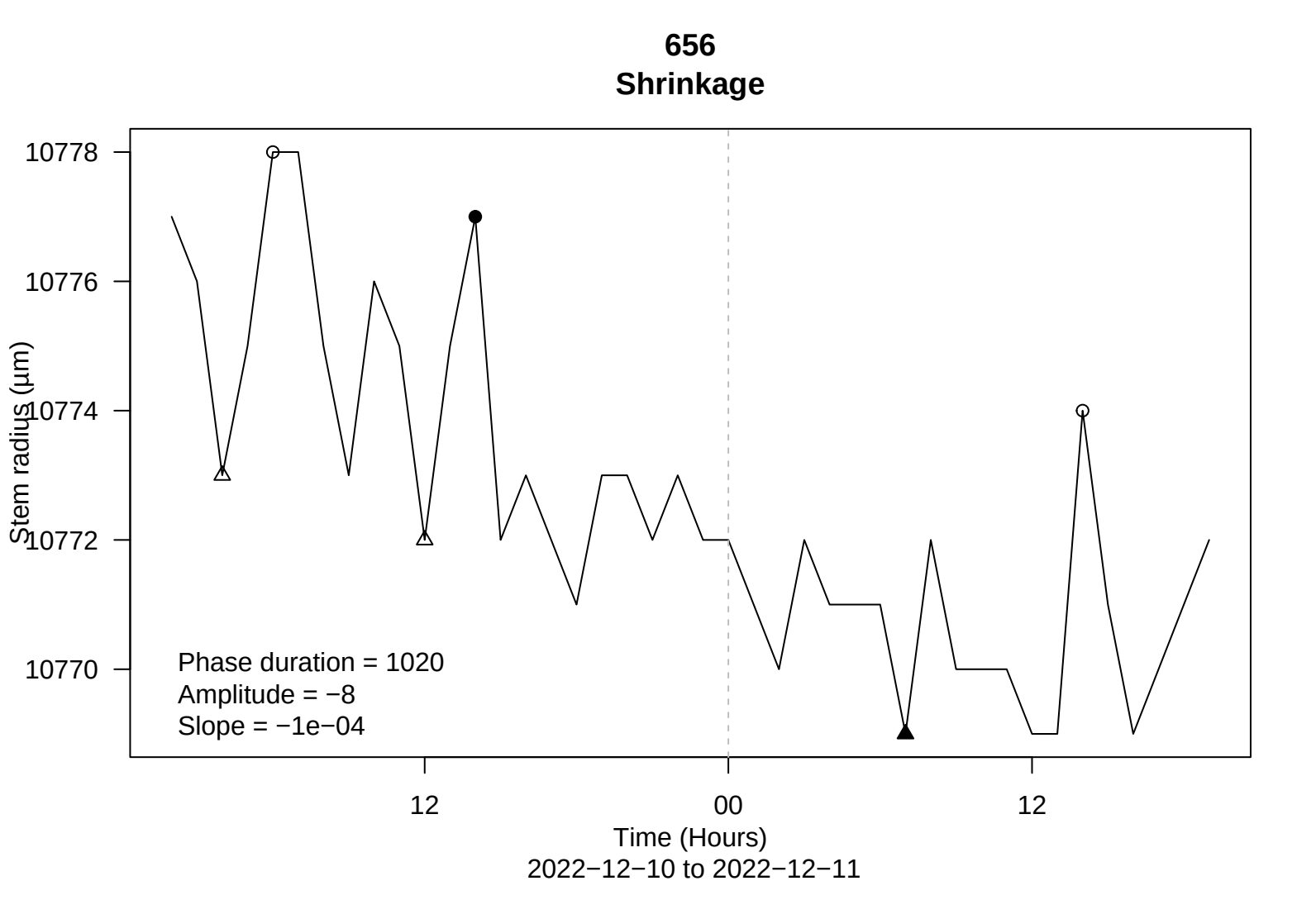

656
Expansion
10750
10745
10740
10735
10730
10725
Stem radius (µm)
00
12
00
Time (Hours)
2022−12−06 to 2022−12−06
Phase duration = 300
Amplitude = 9
Slope = 3e−04

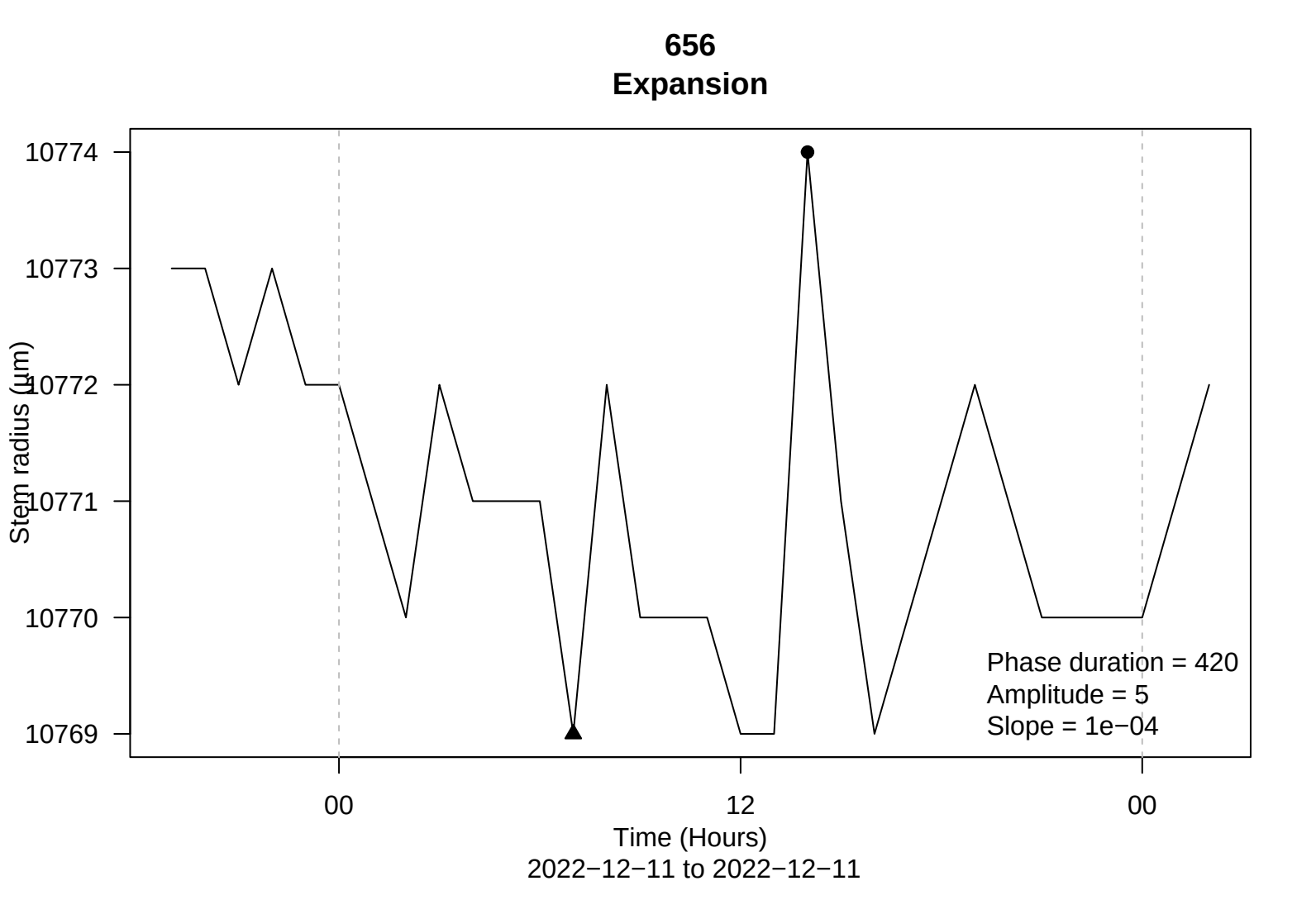

656
Expansion
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 480
Amplitude = 9
Slope = 3e−04
12
00
12
Time (Hours)
2022−12−06 to 2022−12−06

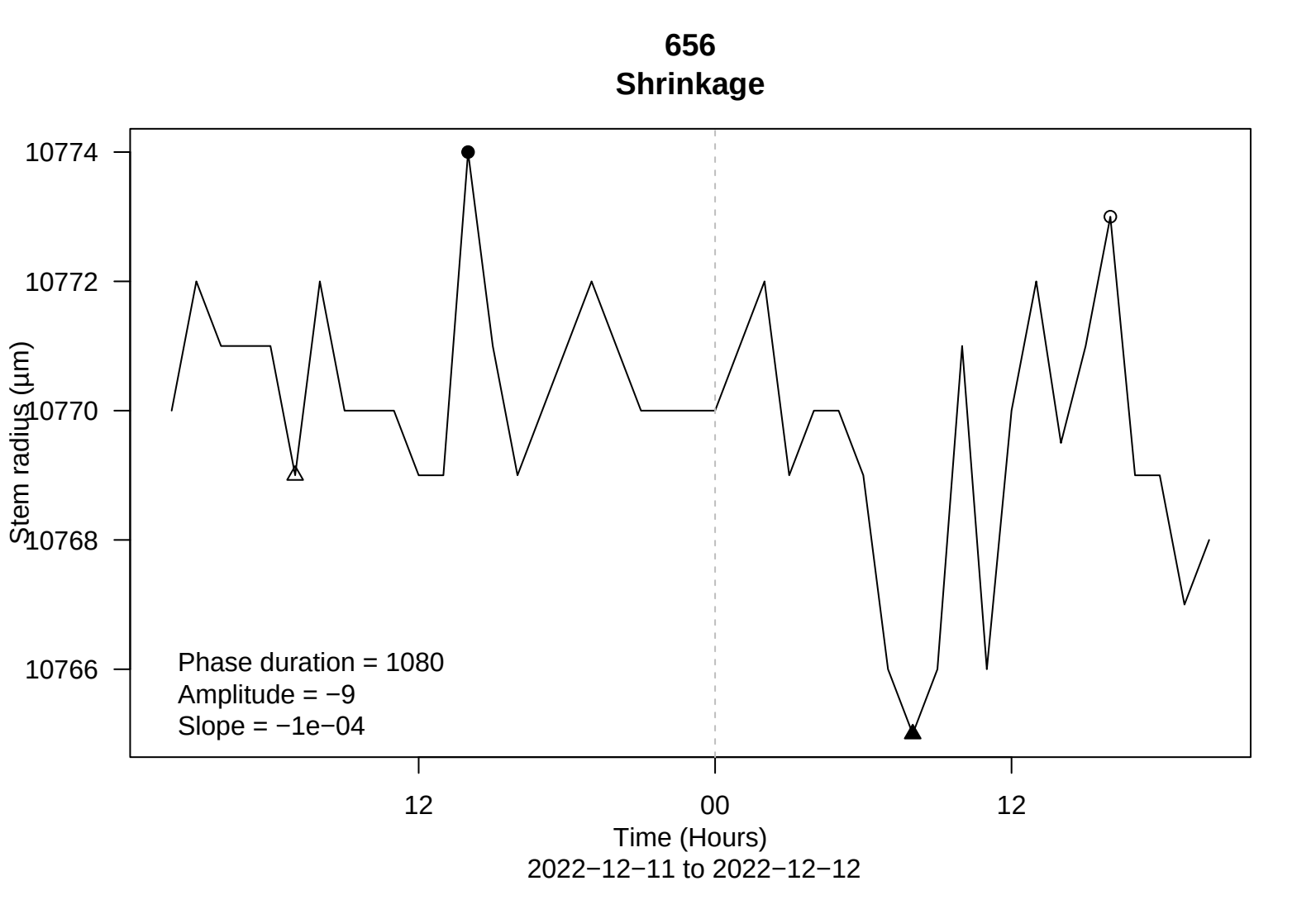

656
Expansion
10779
10778
10777
10776
10775
10774
10773
Stem radius (µm)
Phase duration = 420
Amplitude = 4
Slope = 1e−04
00
12
00
Time (Hours)
2022−12−09 to 2022−12−09

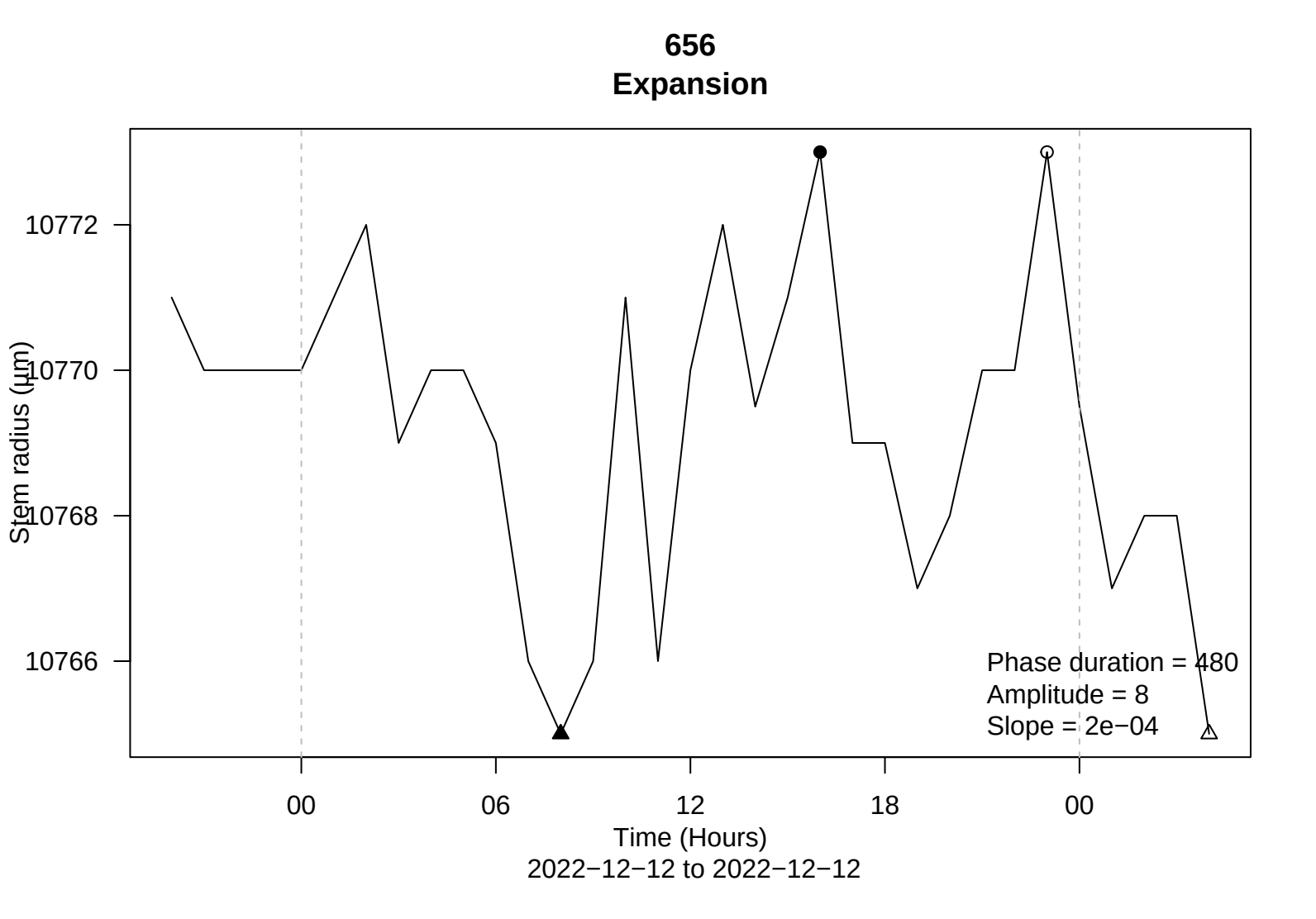

656
Shrinkage
10778
10777
10776
10775
10774
10773
10772
Stem radius (µm)
Phase duration = 540
Amplitude = −4
Slope = 0
12
00
12
Time (Hours)
2022−12−09 to 2022−12−10

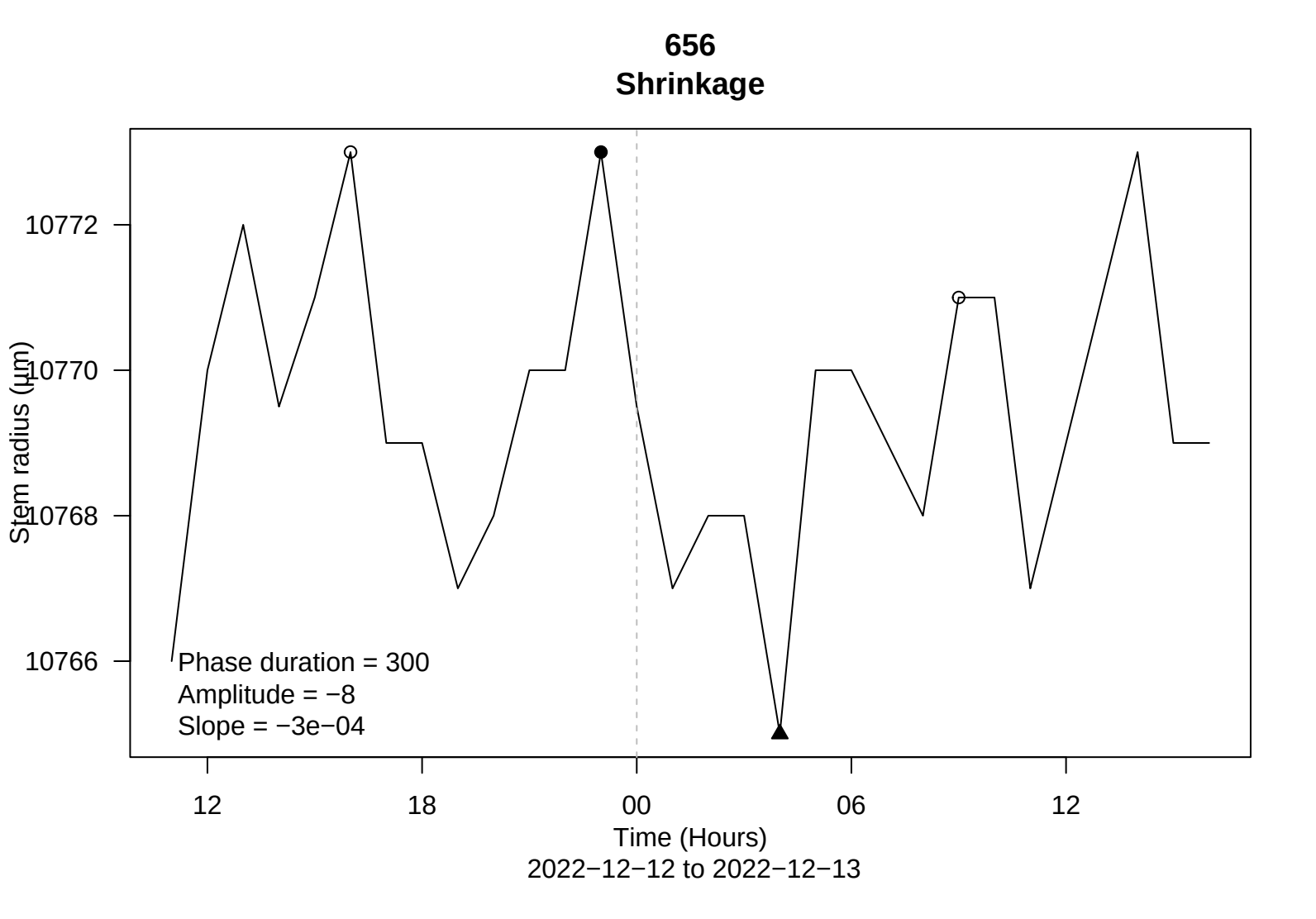

656
Shrinkage
10778
10777
10776
10775
10774
10773
10772
10771
Stem radius (µm)
Phase duration = 360
Amplitude = −6
Slope = −2e−04
00
12
00
Time (Hours)
2022−12−10 to 2022−12−10

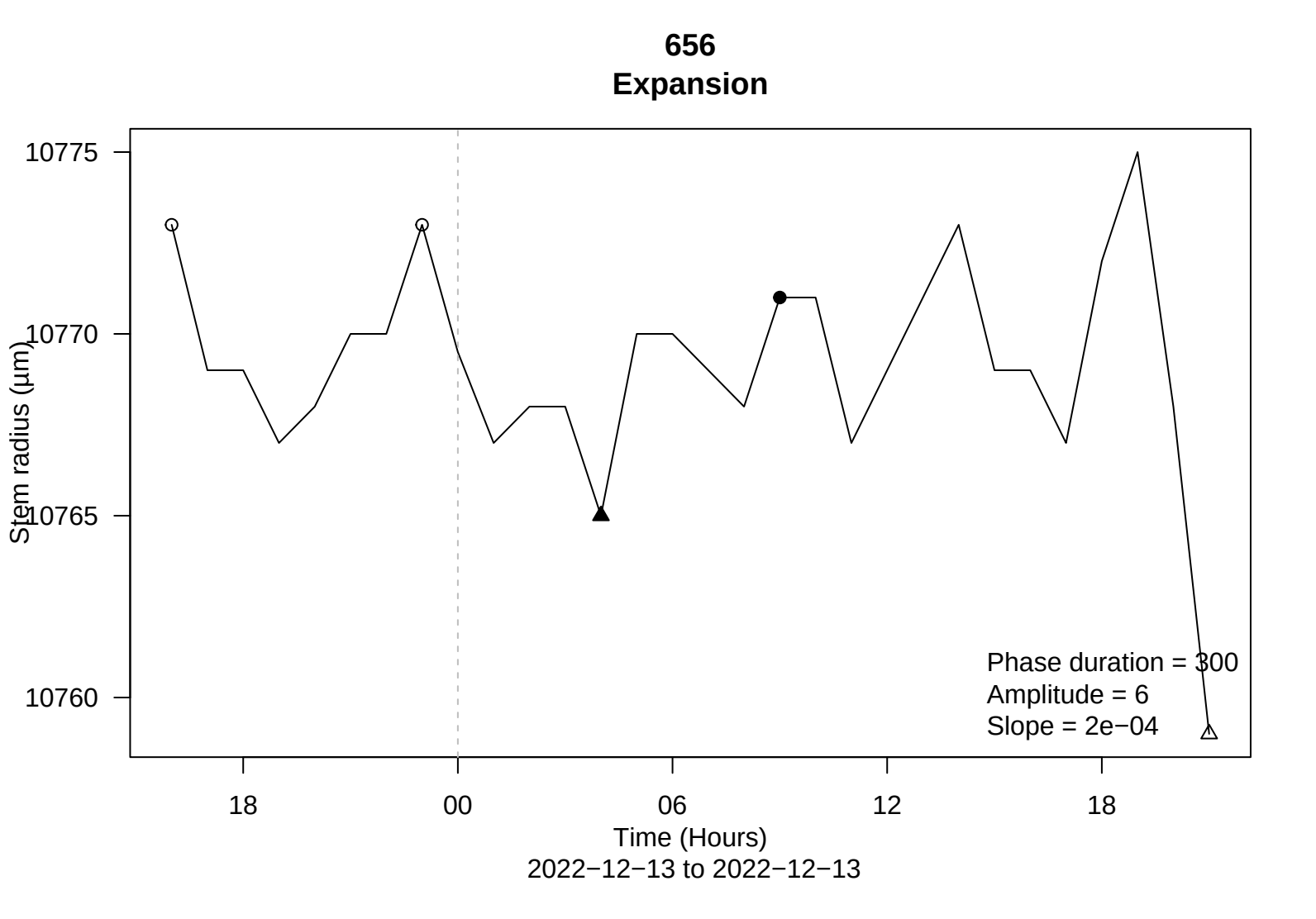

656
Shrinkage
10778
10776
10774
10772
10770
Stem radius (µm)
Phase duration = 1020
Amplitude = −8
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−10 to 2022−12−11

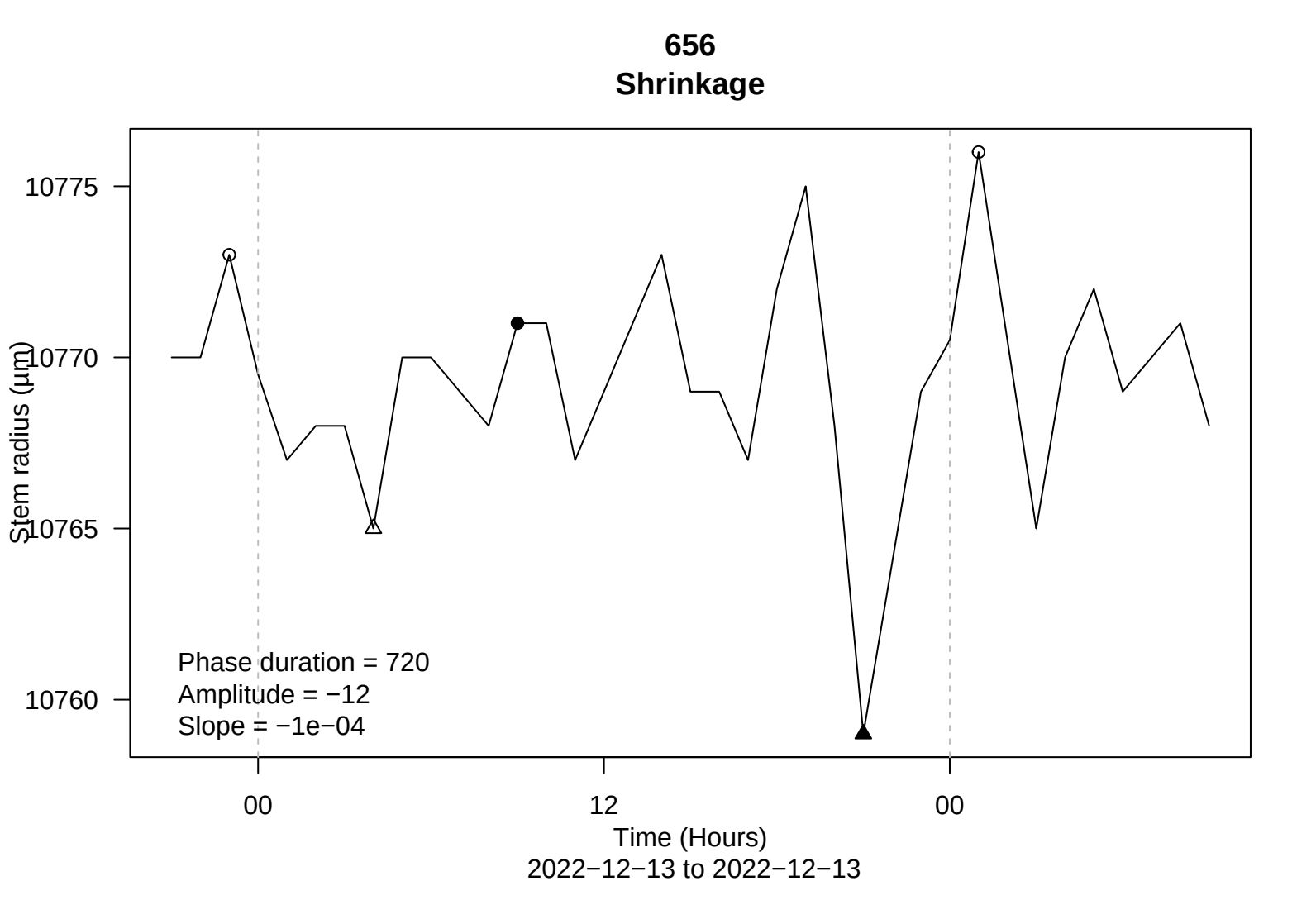

656
Expansion
10774
10773
10772
10771
10770
10769
Stem radius (µm)
Phase duration = 420
Amplitude = 5
Slope = 1e−04
00
12
00
Time (Hours)
2022−12−11 to 2022−12−11

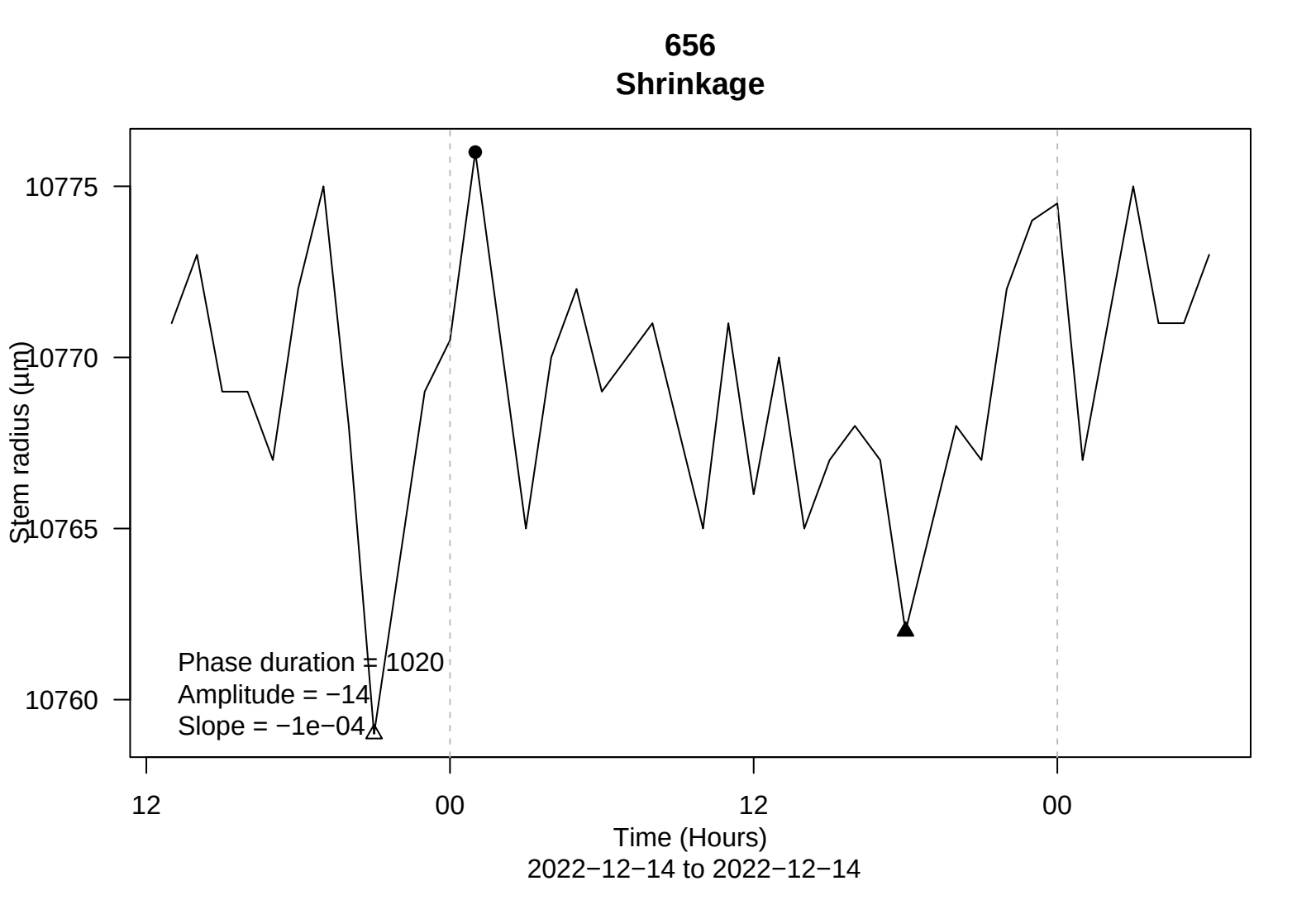

656
Shrinkage
10774
10772
10770
10768
10766
Stem radius (µm)
Phase duration = 1080
Amplitude = −9
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−11 to 2022−12−12

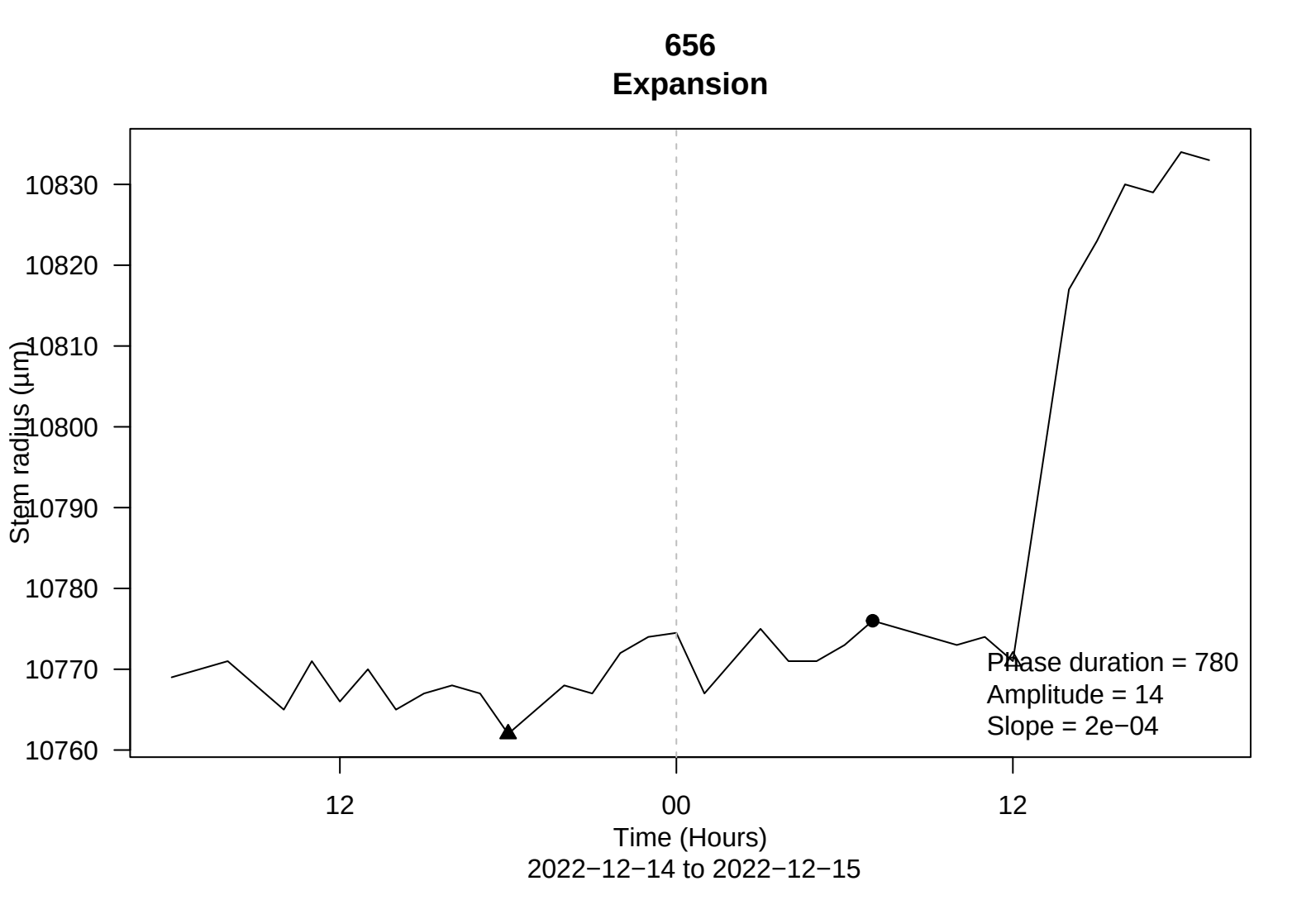

656
Expansion
10772
10770
10768
10766
Stem radius (µm)
Phase duration = 480
Amplitude = 8
Slope = 2e−04
00
06
12
18
00
Time (Hours)
2022−12−12 to 2022−12−12

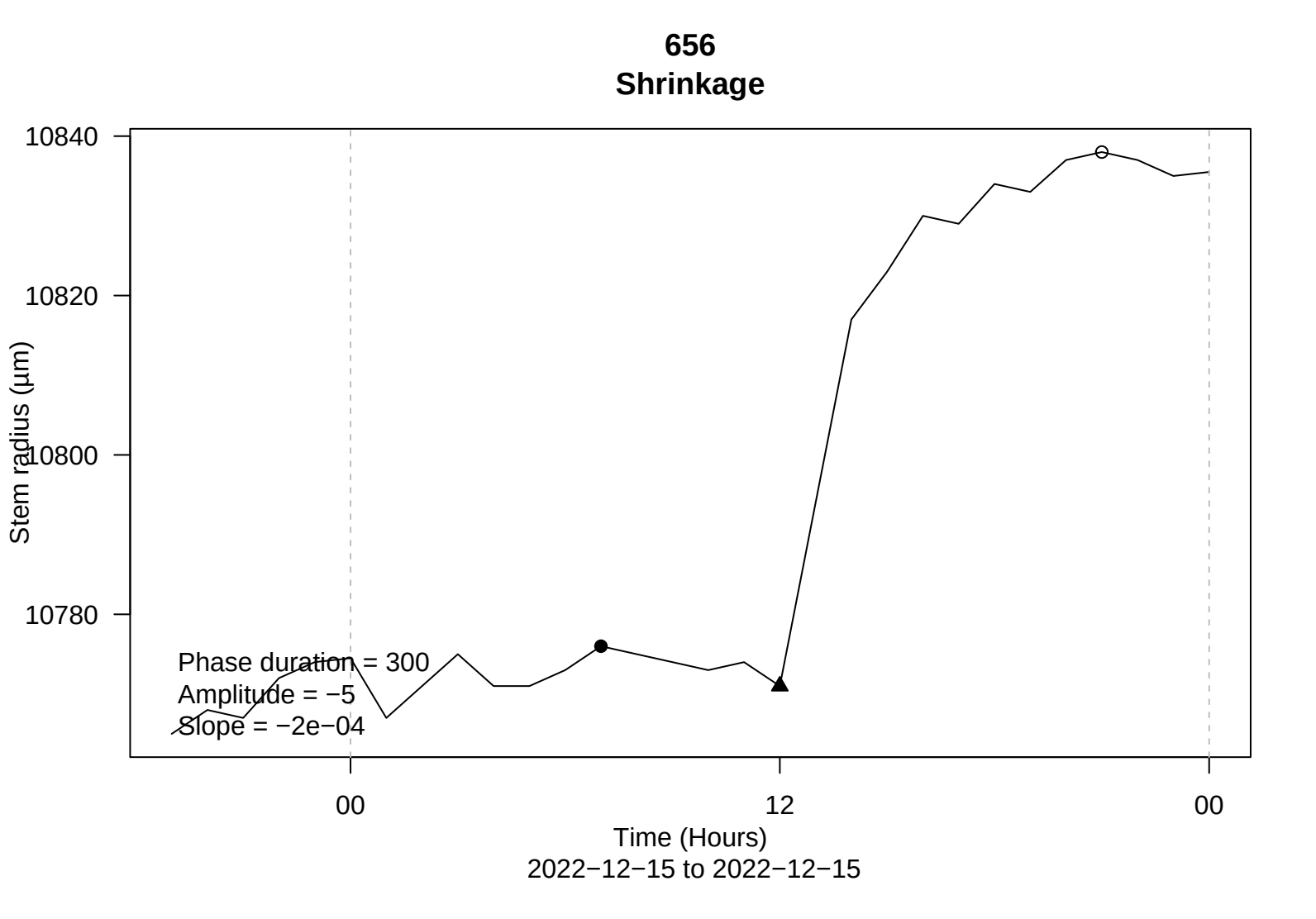

656
Shrinkage
10772
10770
10768
10766
Stem radius (µm)
Phase duration = 300
Amplitude = −8
Slope = −3e−04
12
18
00
06
12
Time (Hours)
2022−12−12 to 2022−12−13

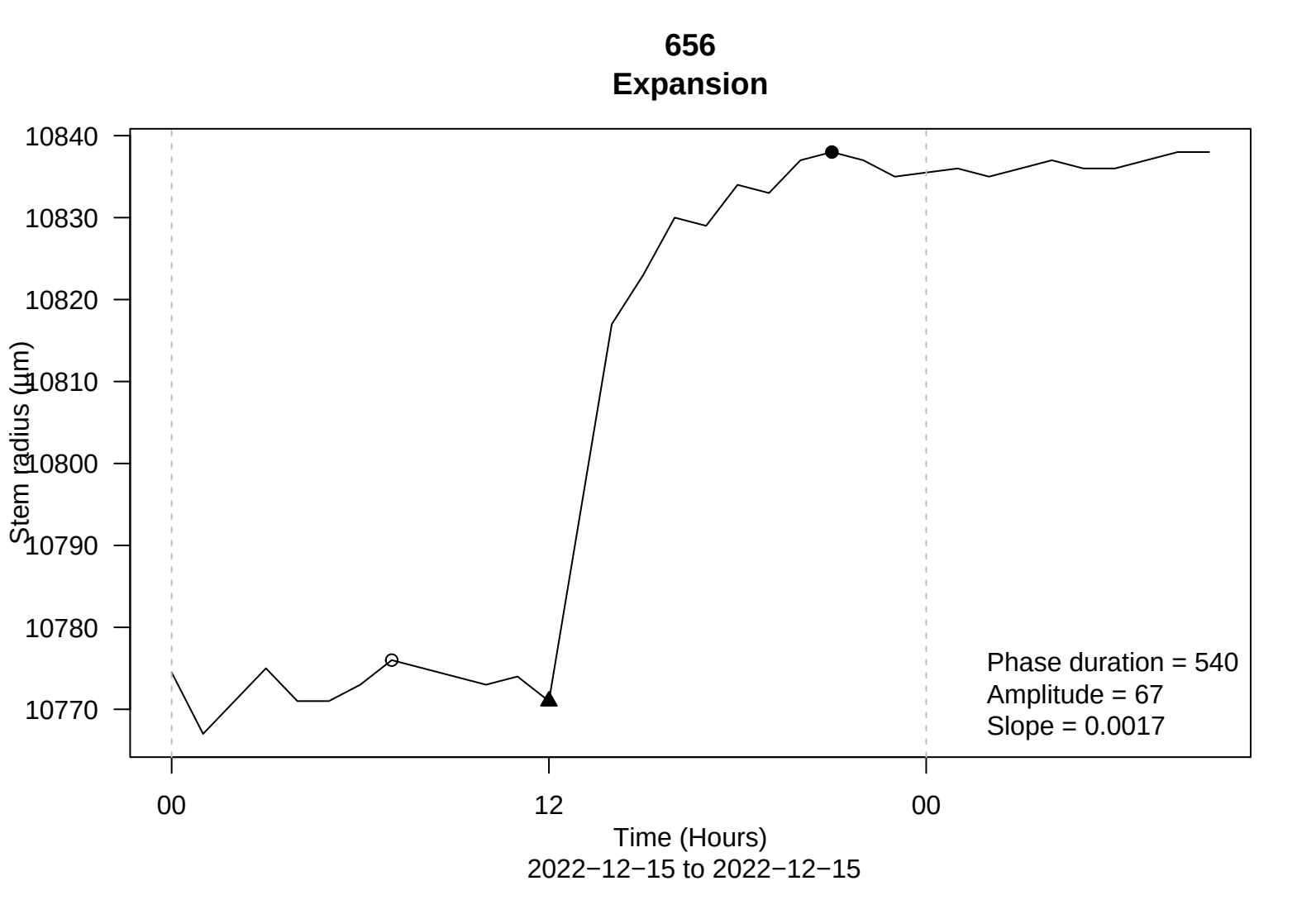

656
Expansion
10775
10770
10765
10760
Stem radius (µm)
Phase duration = 300
Amplitude = 6
Slope = 2e−04
18
00
06
12
18
Time (Hours)
2022−12−13 to 2022−12−13

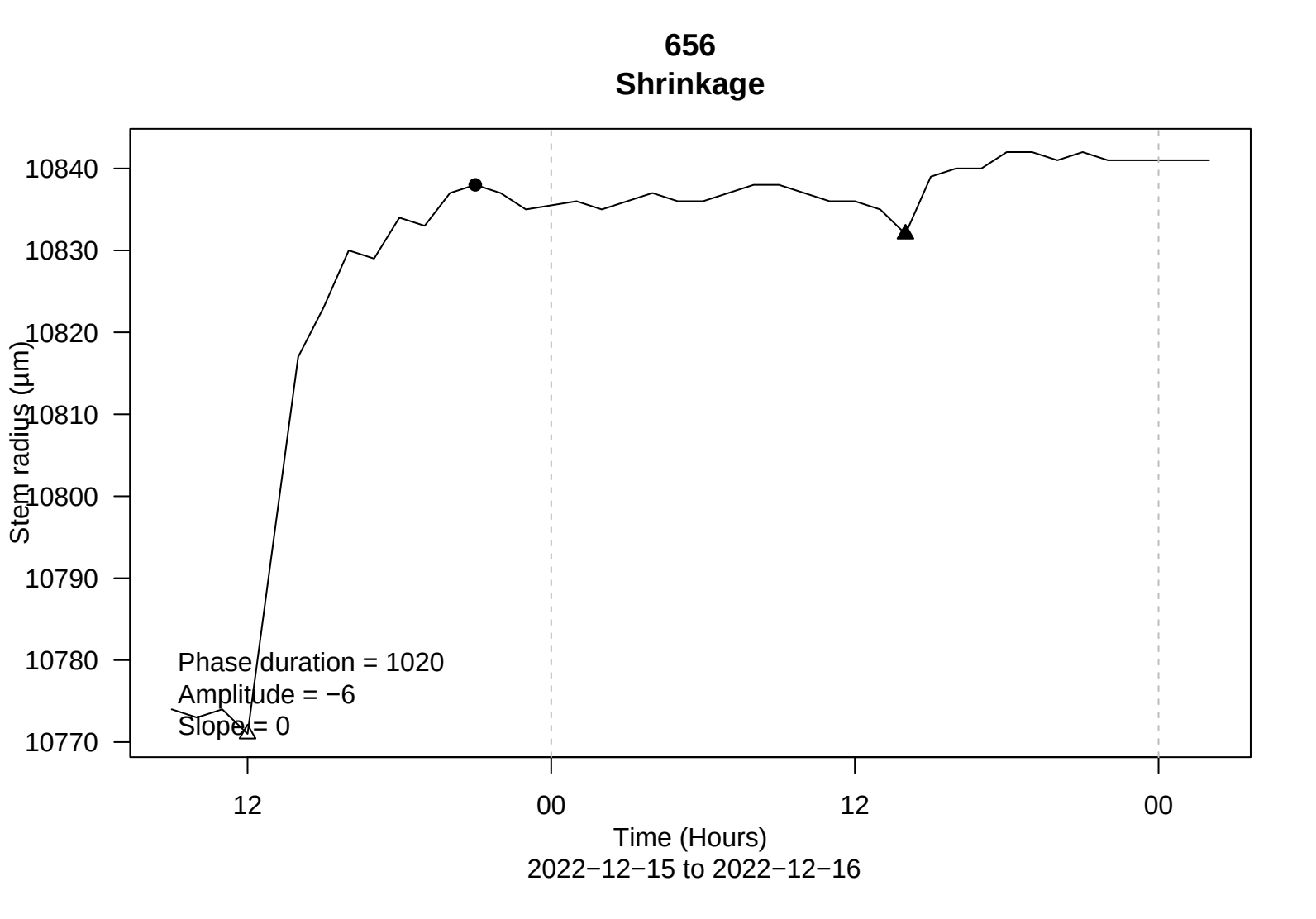

656
Shrinkage
10775
10770
10765
10760
Stem radius (µm)
Phase duration = 720
Amplitude = −12
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−13 to 2022−12−13

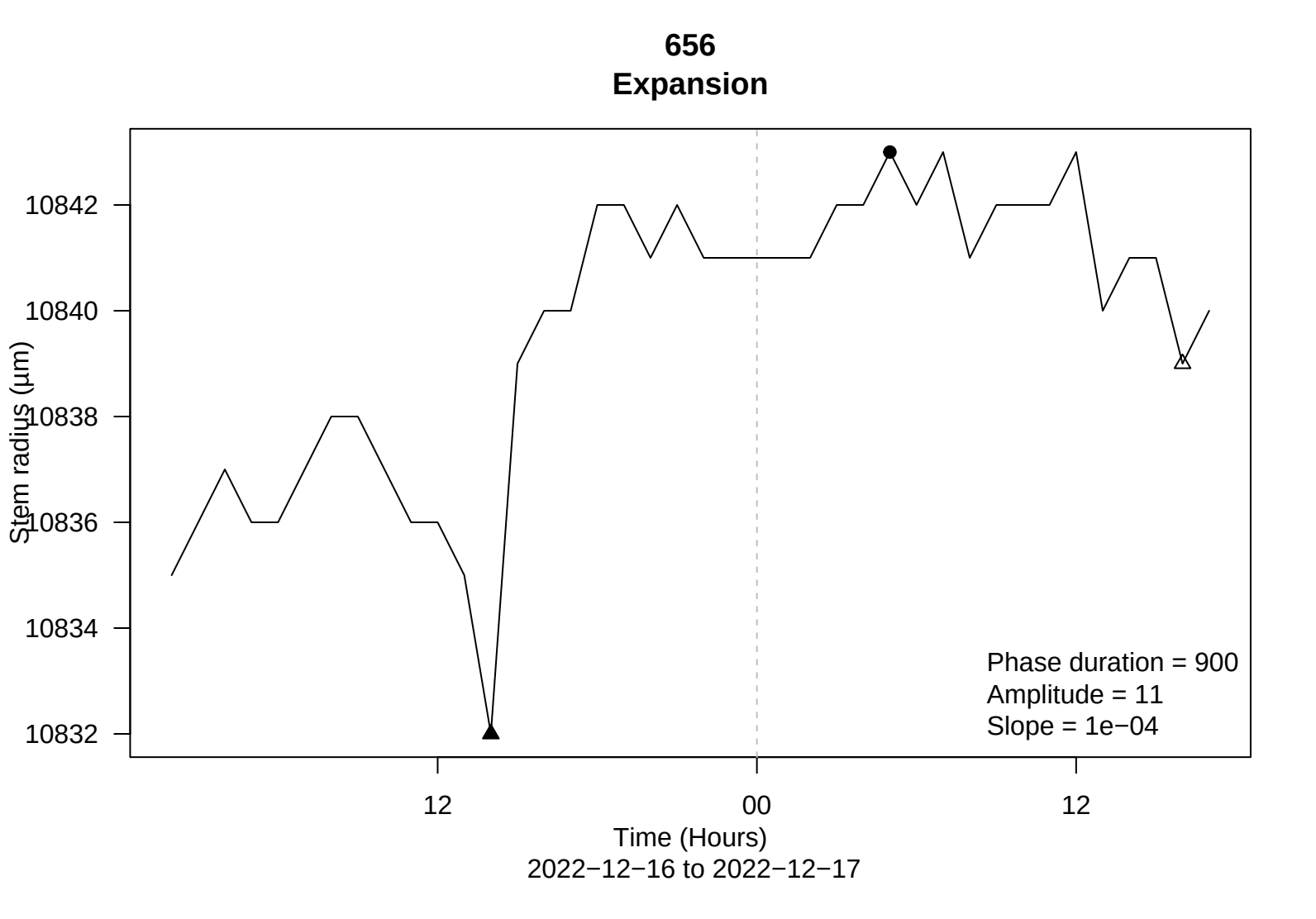

656
Shrinkage
10775
10770
10765
10760
Stem radius (µm)
Phase duration = 1020
Amplitude = −14
Slope = −1e−04
12
00
12
00
Time (Hours)
2022−12−14 to 2022−12−14

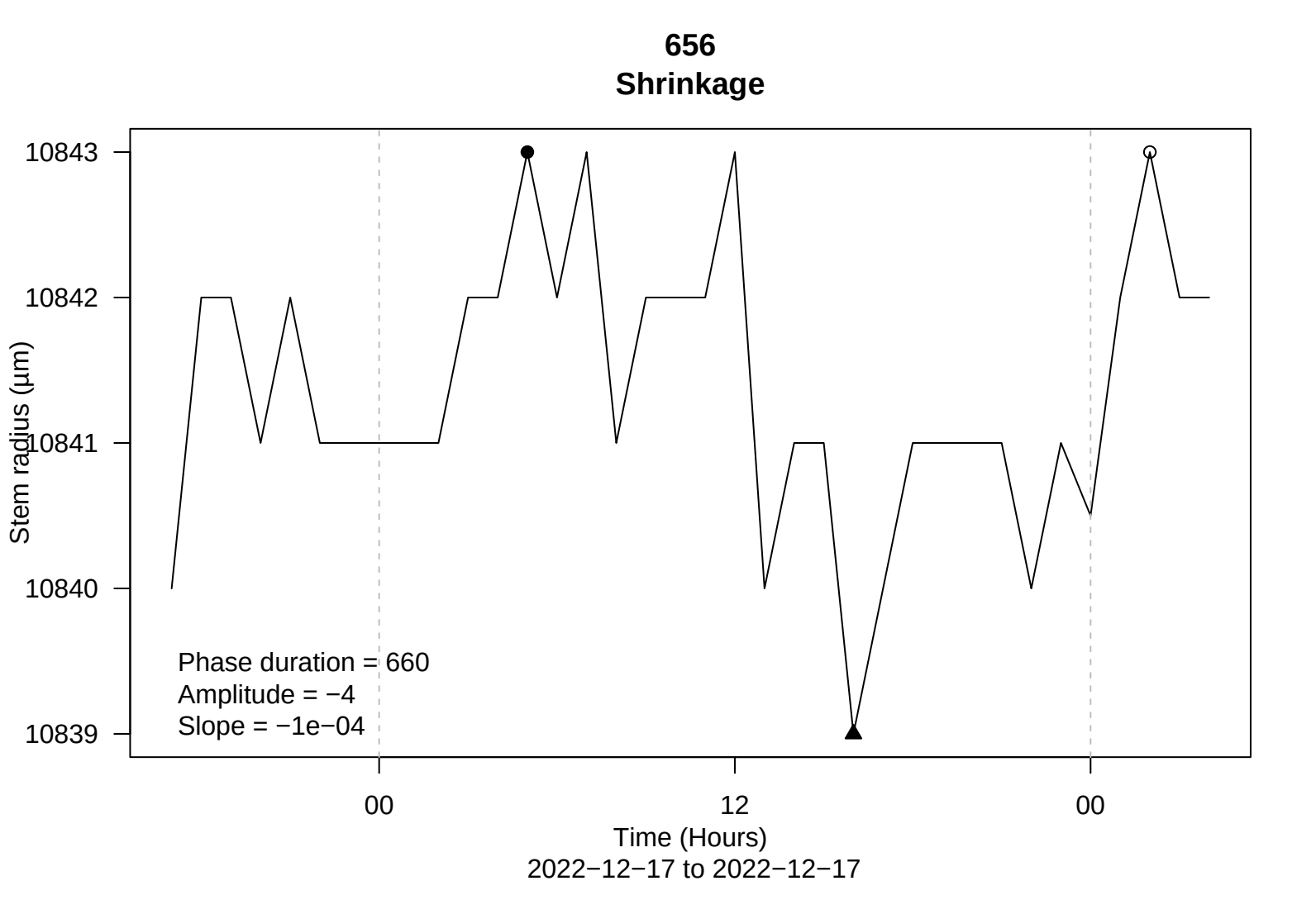

656
Expansion
10830
10820
10810
10800
10790
10780
10770
10760
Stem radius (µm)
12
00
12
Time (Hours)
2022−12−14 to 2022−12−15
Phase duration = 780
Amplitude = 14
Slope = 2e−04

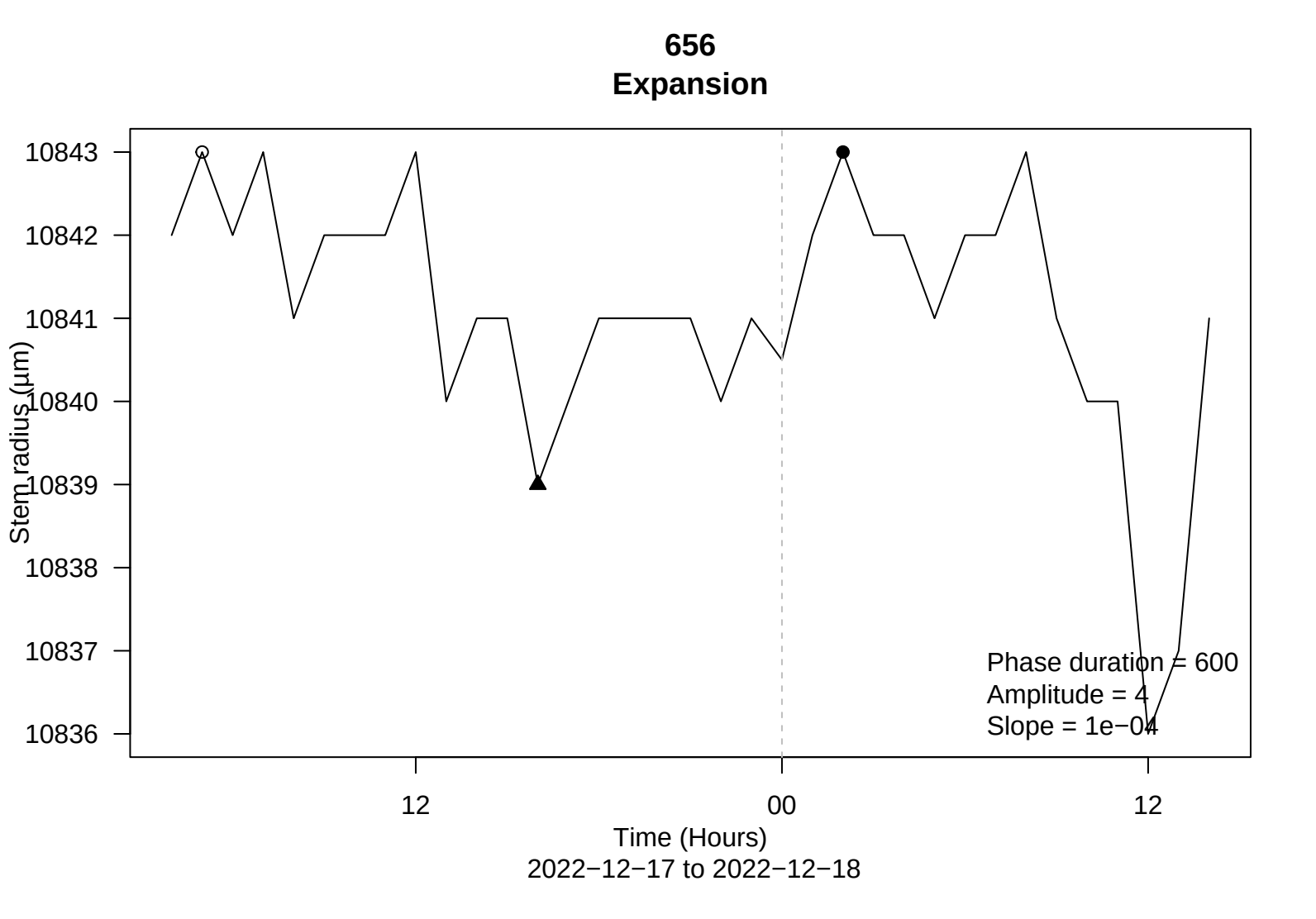

656
Shrinkage
10840
10820
10800
10780
Stem radius (µm)
Phase duration = 300
Amplitude = −5
Slope = −2e−04
00
12
00
Time (Hours)
2022−12−15 to 2022−12−15

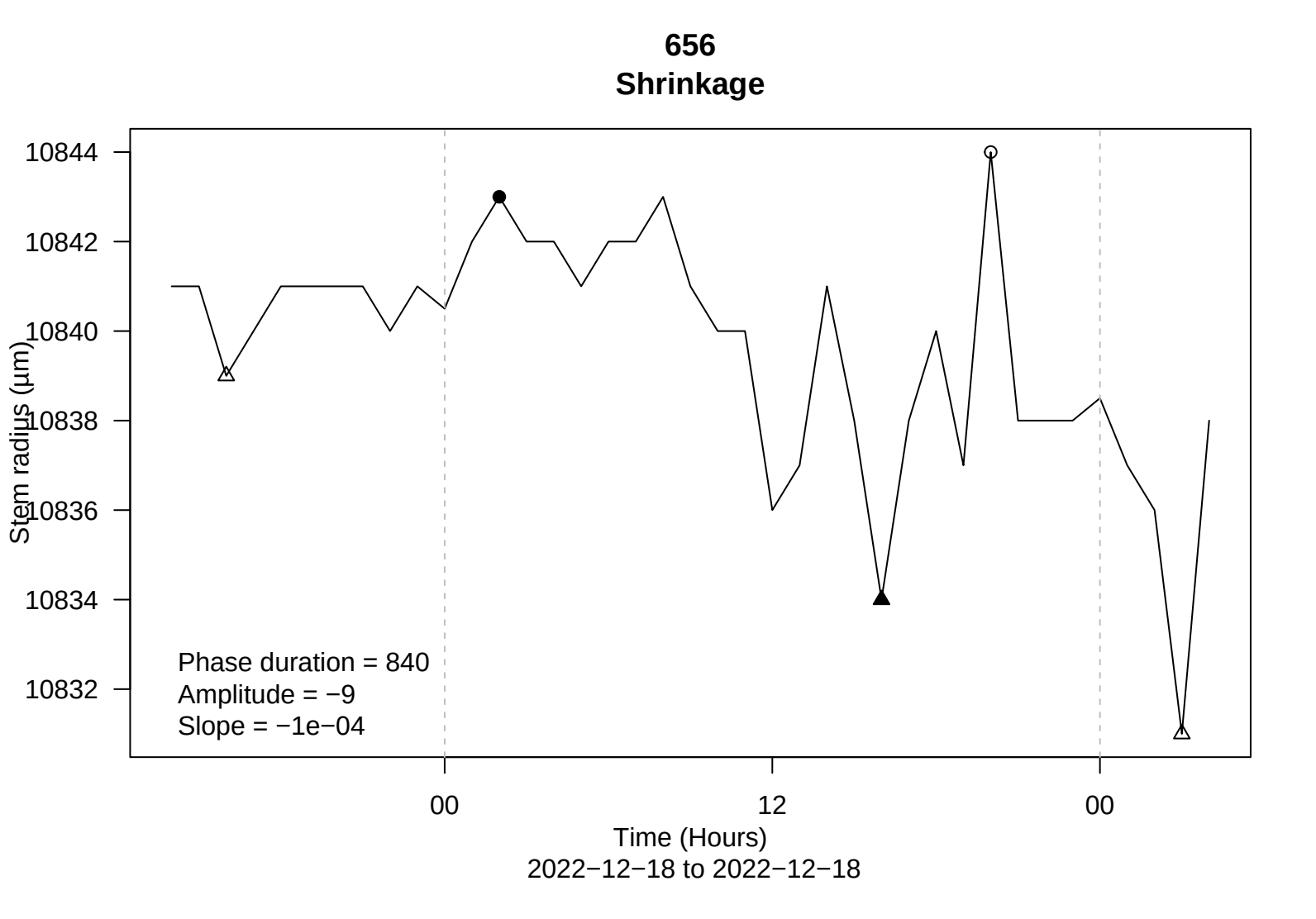

656
Expansion
10840
10830
10820
10810
10800
10790
10780
10770
Stem radius (µm)
Phase duration = 540
Amplitude = 67
Slope = 0.0017
00
12
00
Time (Hours)
2022−12−15 to 2022−12−15

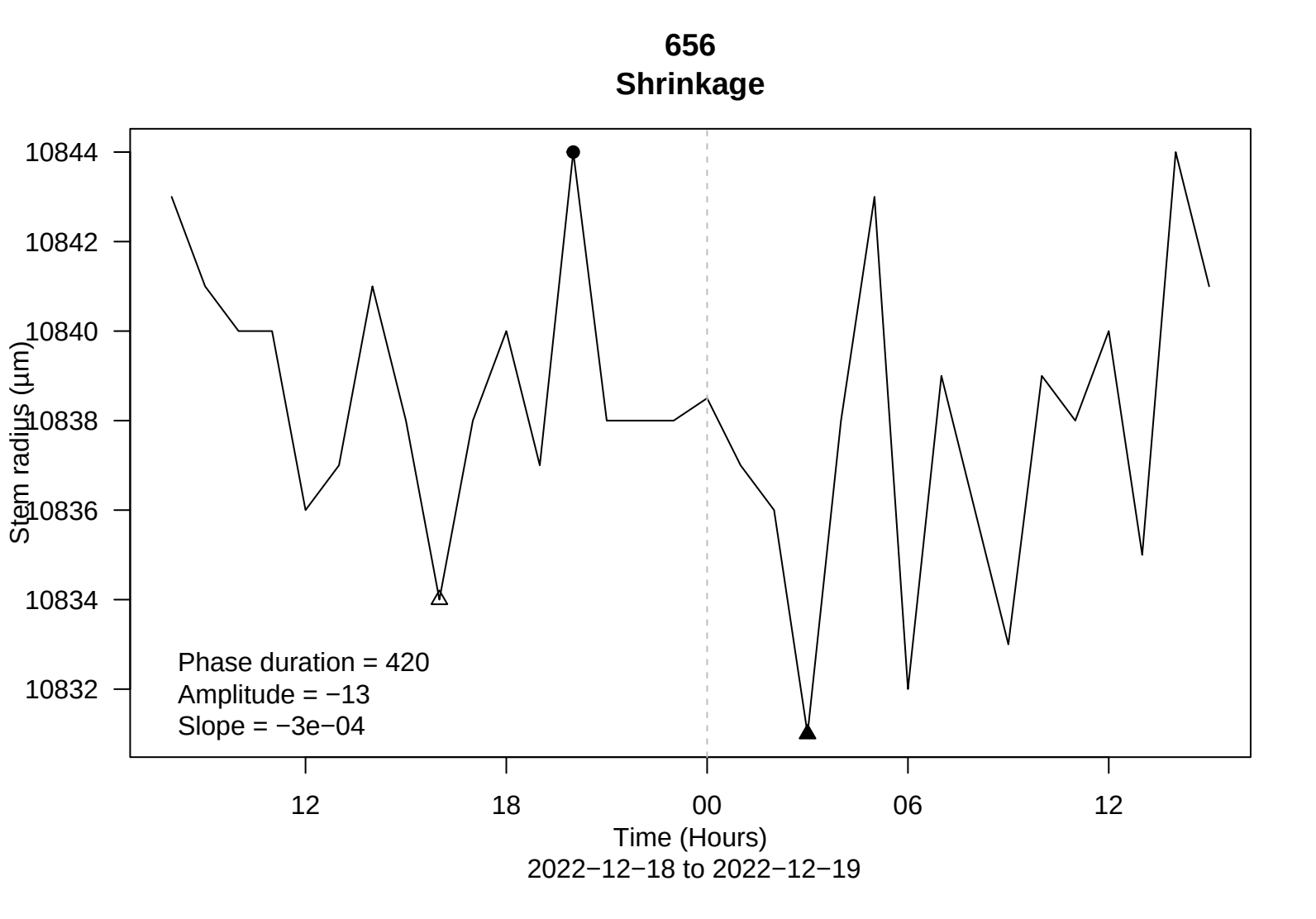

656
Shrinkage
10840
10830
10820
10810
10800
10790
10780
10770
Stem radius (µm)
Phase duration = 1020
Amplitude = −6
Slope = 0
12
00
12
00
Time (Hours)
2022−12−15 to 2022−12−16

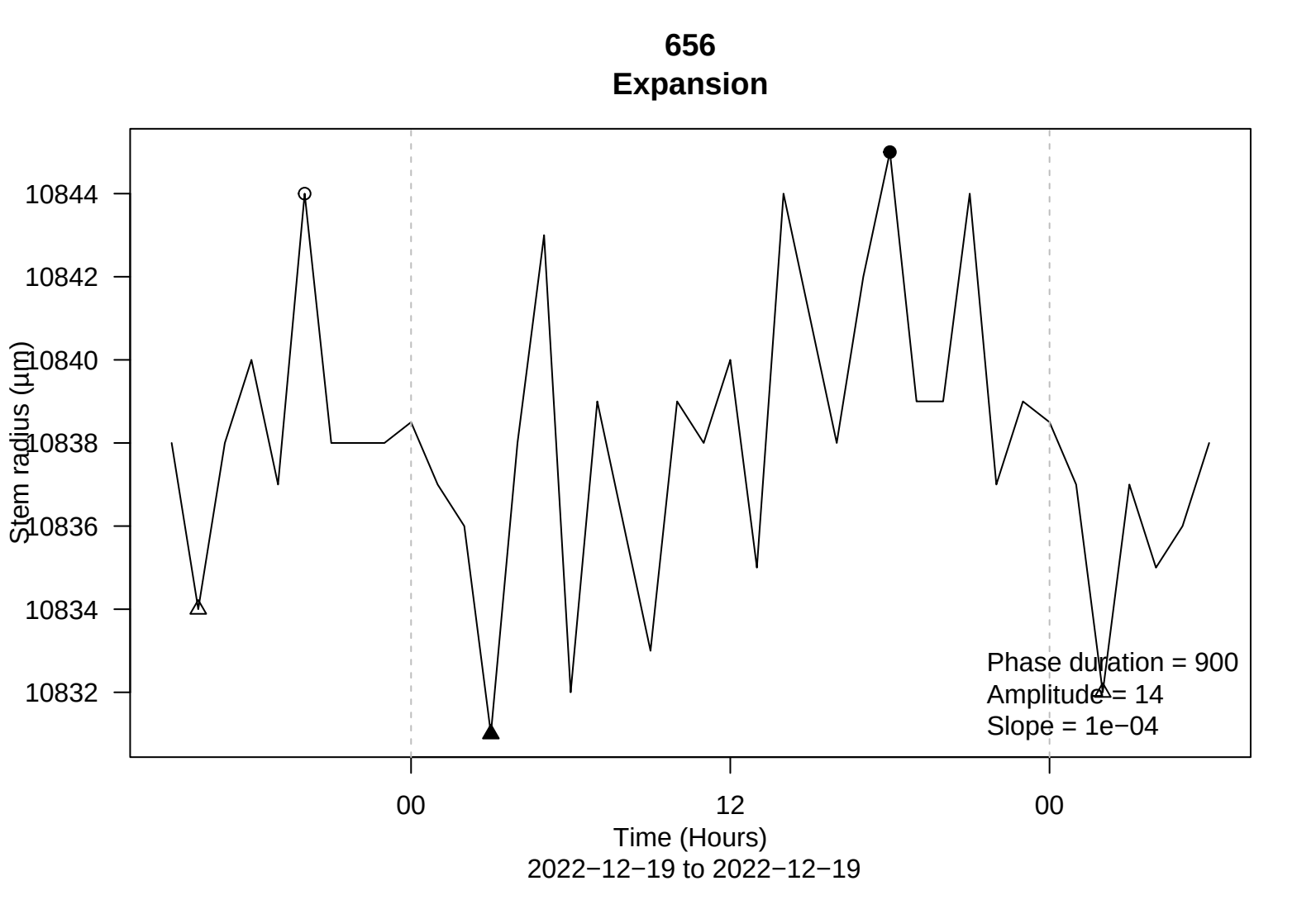

656
Expansion
10842
10840
10838
10836
10834
10832
Stem radius (µm)
12
00
12
Time (Hours)
2022−12−16 to 2022−12−17
Phase duration = 900
Amplitude = 11
Slope = 1e−04

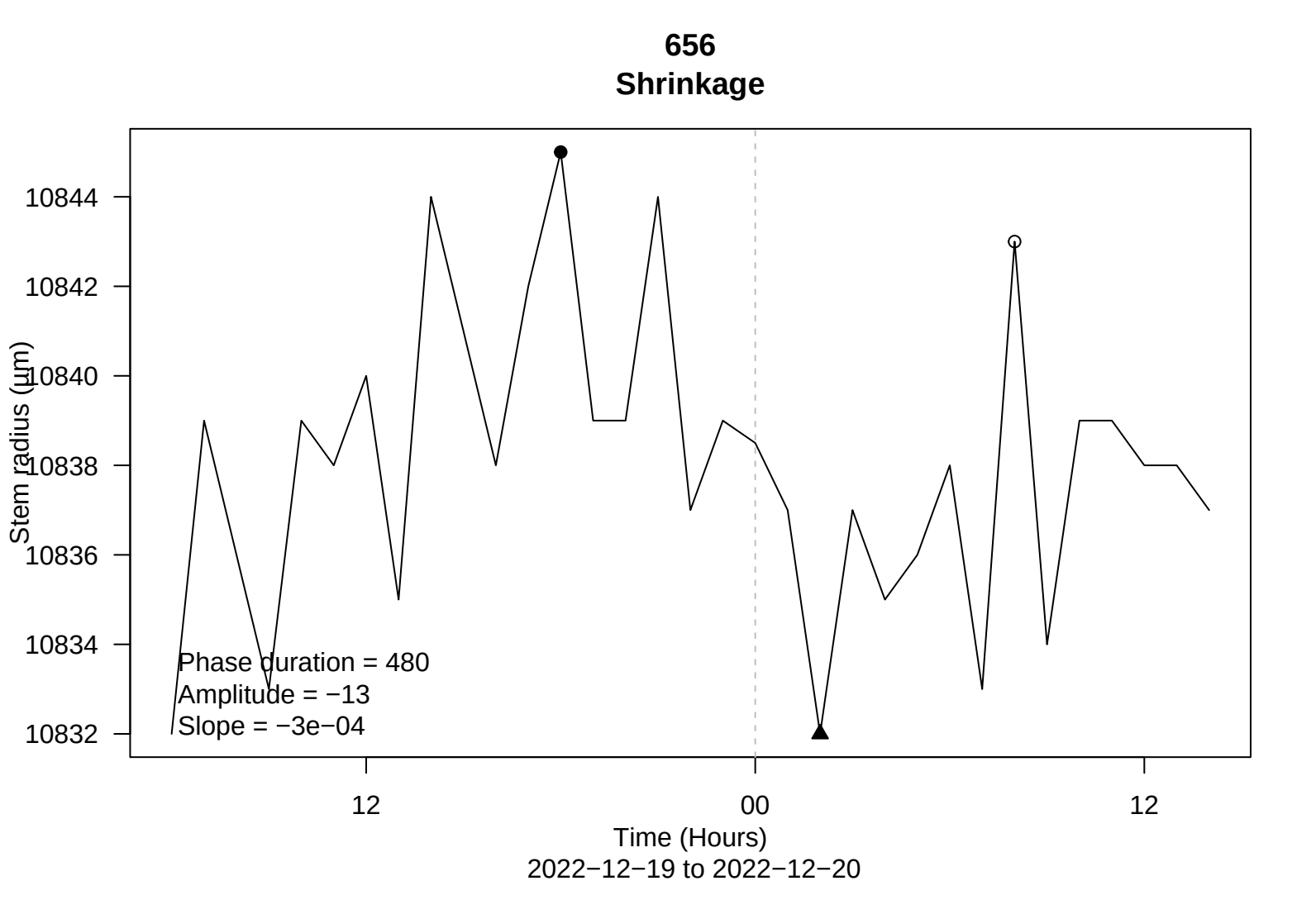

656
Shrinkage
10843
10842
10841
10840
10839
Stem radius (µm)
Phase duration = 660
Amplitude = −4
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−17 to 2022−12−17

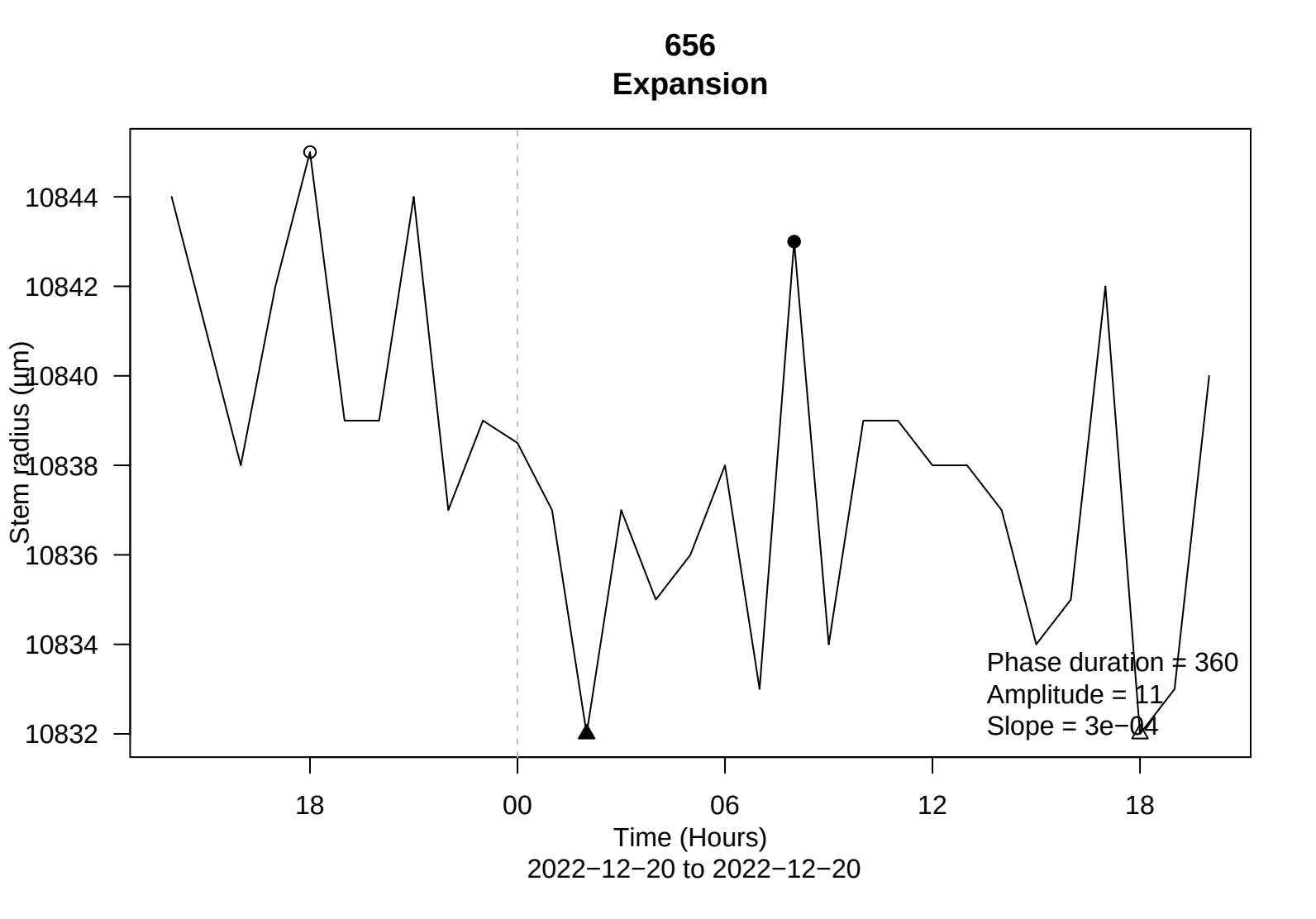

656
Expansion
10843
10842
10841
10840
10839
10838
10837
10836
Stem radius (µm)
12
00
12
Time (Hours)
2022−12−17 to 2022−12−18
Phase duration = 600
Amplitude = 4
Slope = 1e−04

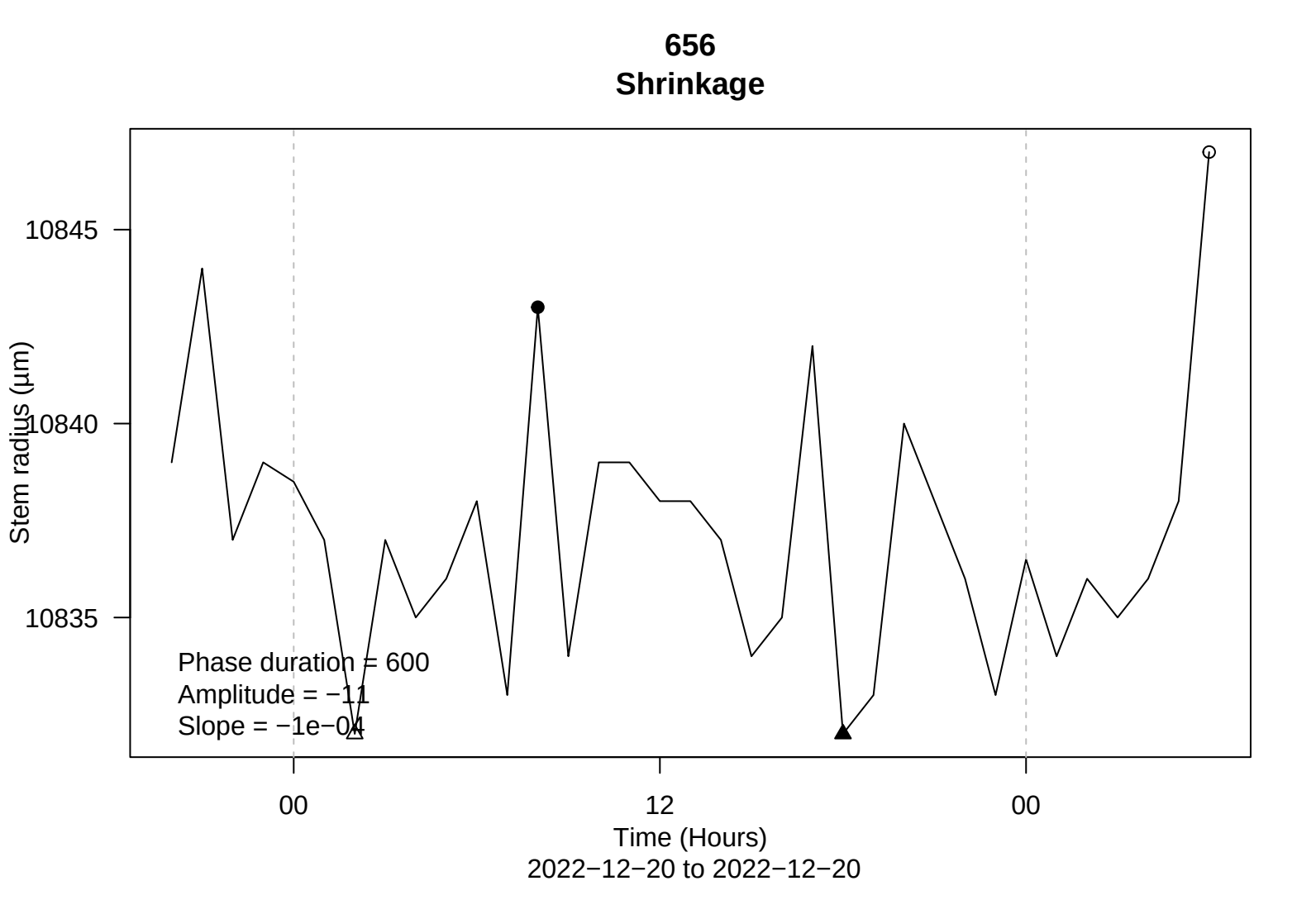

656
Shrinkage
10844
10842
10840
10838
10836
10834
10832
Stem radius (µm)
Phase duration = 840
Amplitude = −9
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−18 to 2022−12−18

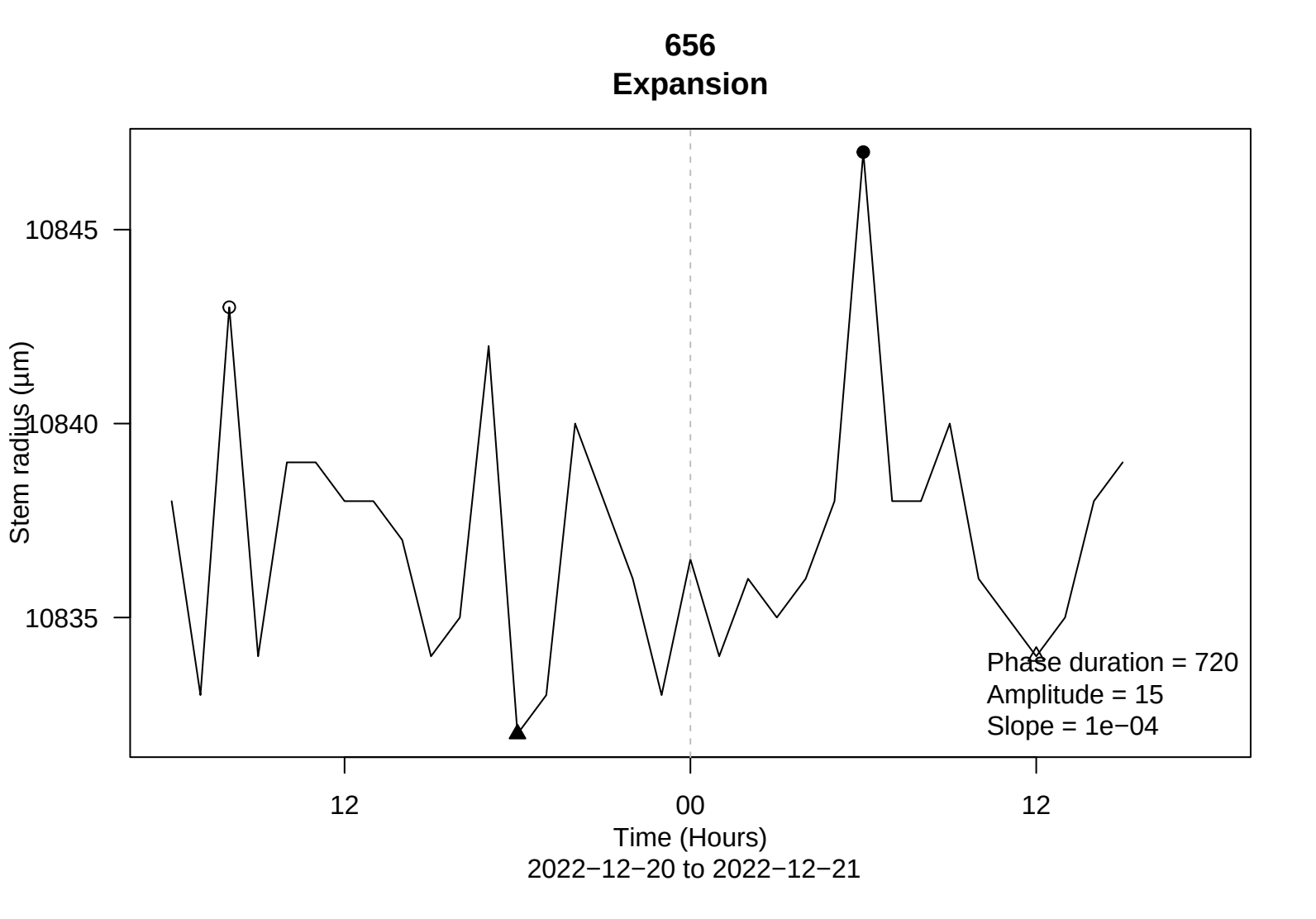

656
Shrinkage
10844
10842
10840
10838
10836
10834
10832
Stem radius (µm)
Phase duration = 420
Amplitude = −13
Slope = −3e−04
12
18
00
06
12
Time (Hours)
2022−12−18 to 2022−12−19

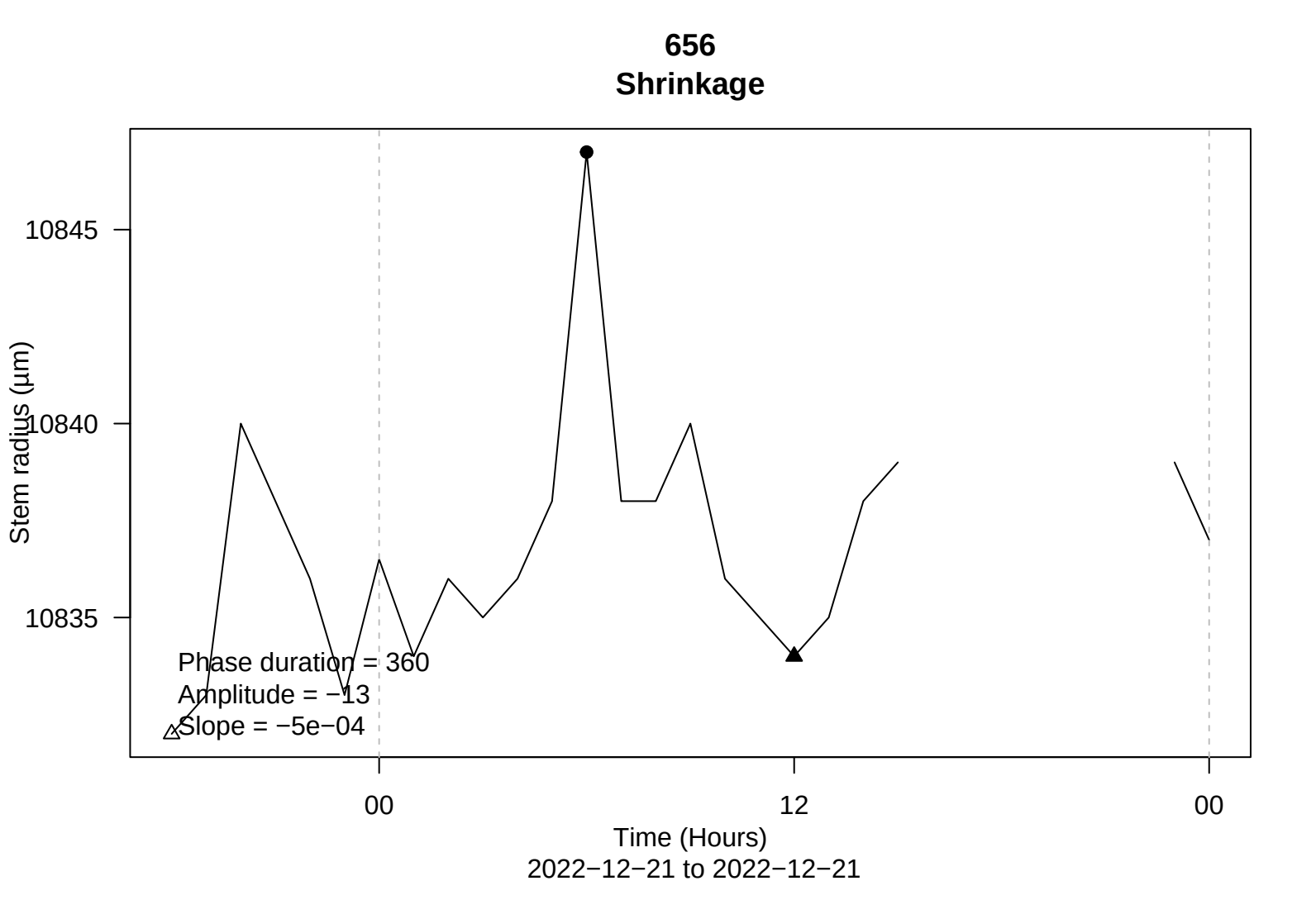

656
Expansion
10844
10842
10840
10838
10836
10834
10832
Stem radius (µm)
Phase duration = 900
Amplitude = 14
Slope = 1e−04
00
12
00
Time (Hours)
2022−12−19 to 2022−12−19

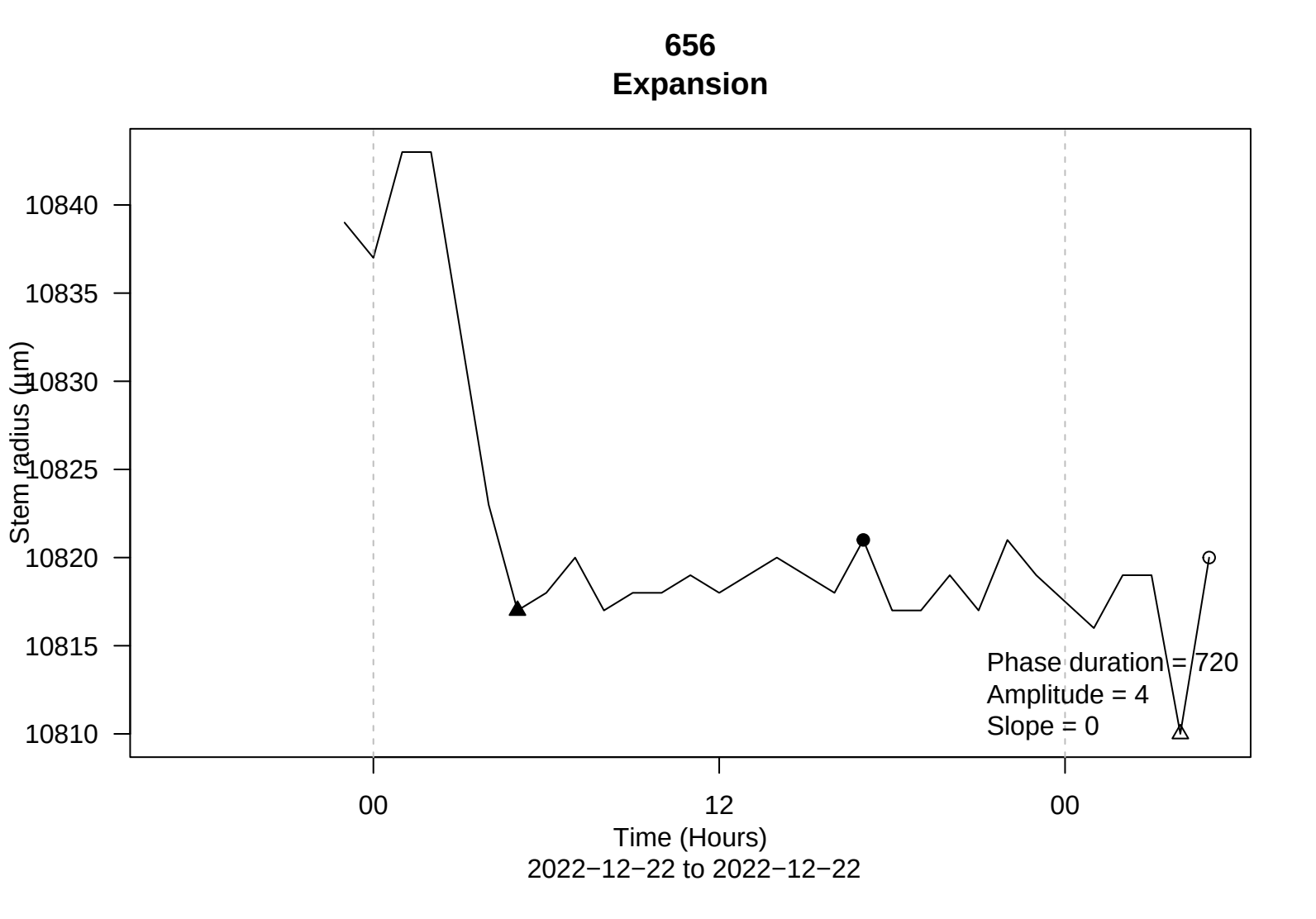

656
Shrinkage
Stem radius (µm)
10844
10842
10840
10838
10836
10834
10832
Phase duration = 480
Amplitude = −13
Slope = −3e−04
12
00
12
Time (Hours)
2022−12−19 to 2022−12−20

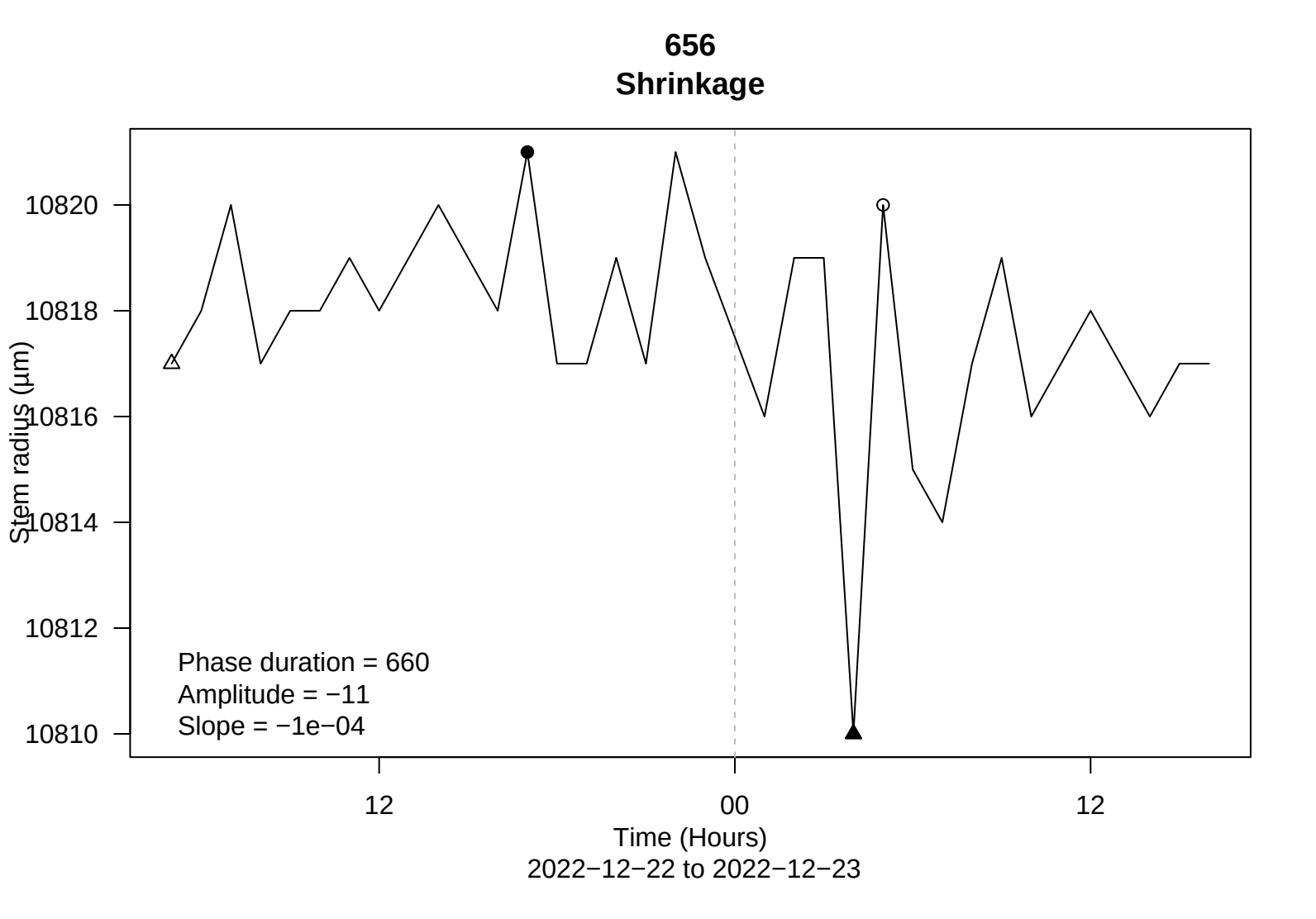

656
Expansion
10844
10842
10840
10838
10836
10834
10832
Stem radius (µm)
18
00
06
12
18
Time (Hours)
2022−12−20 to 2022−12−20
Phase duration = 360
Amplitude = 11
Slope = 3e−04

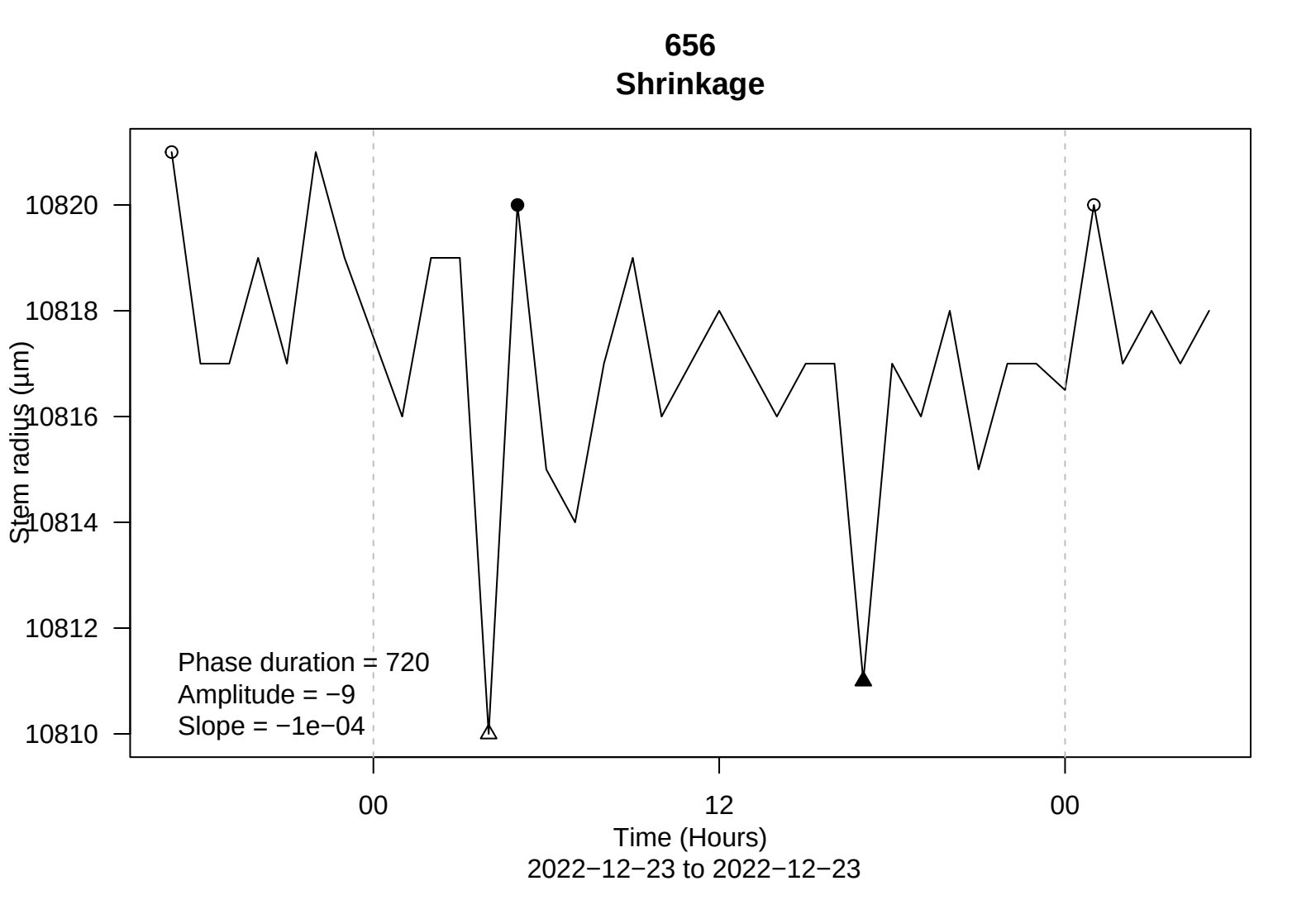

656
Shrinkage
10845
10840
10835
Stem radius (µm)
Phase duration = 600
Amplitude = −11
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−20 to 2022−12−20

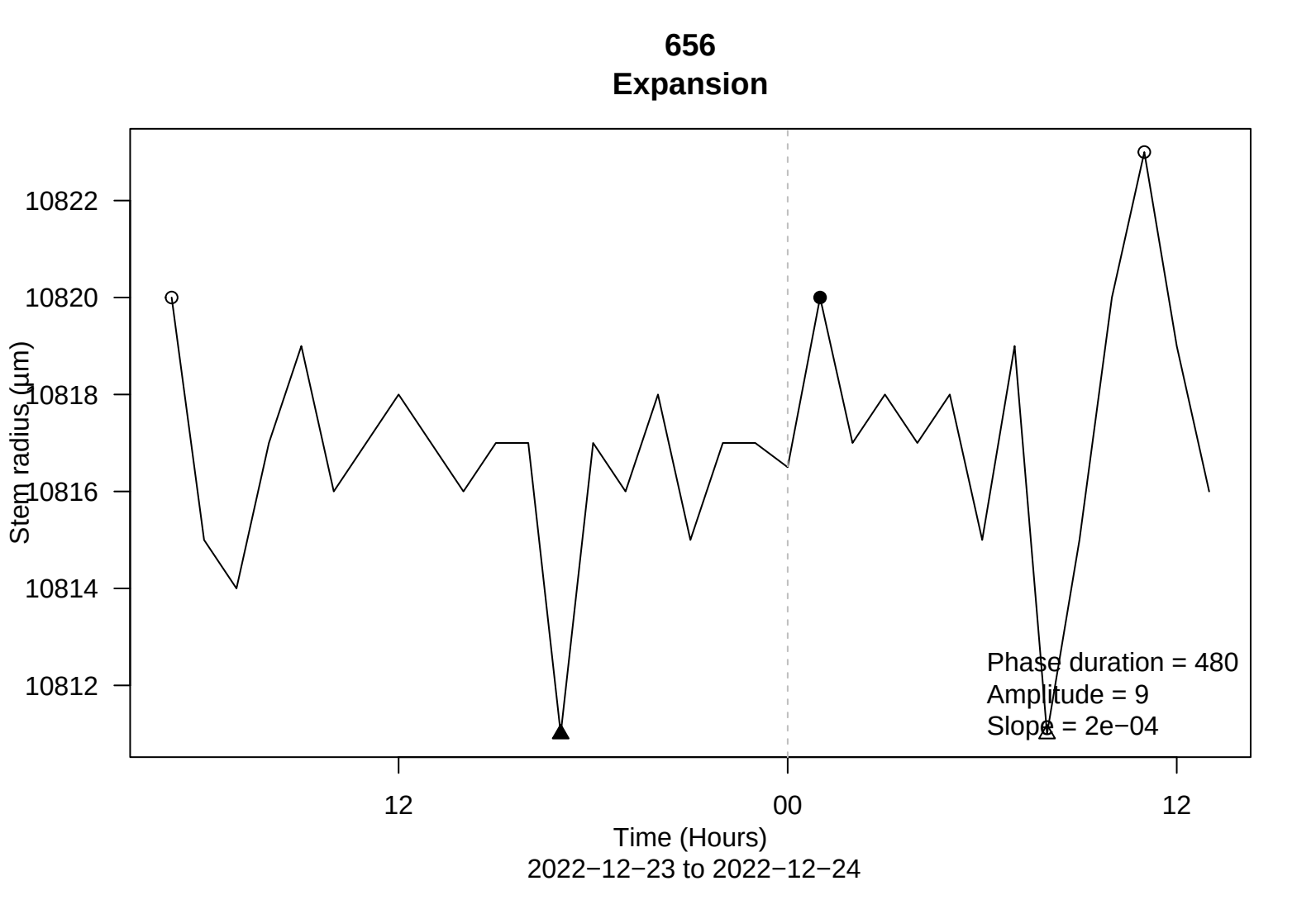

656
Expansion
10845
10840
10835
Stem radius (µm)
Phase duration = 720
Amplitude = 15
Slope = 1e−04
12
00
12
Time (Hours)
2022−12−20 to 2022−12−21

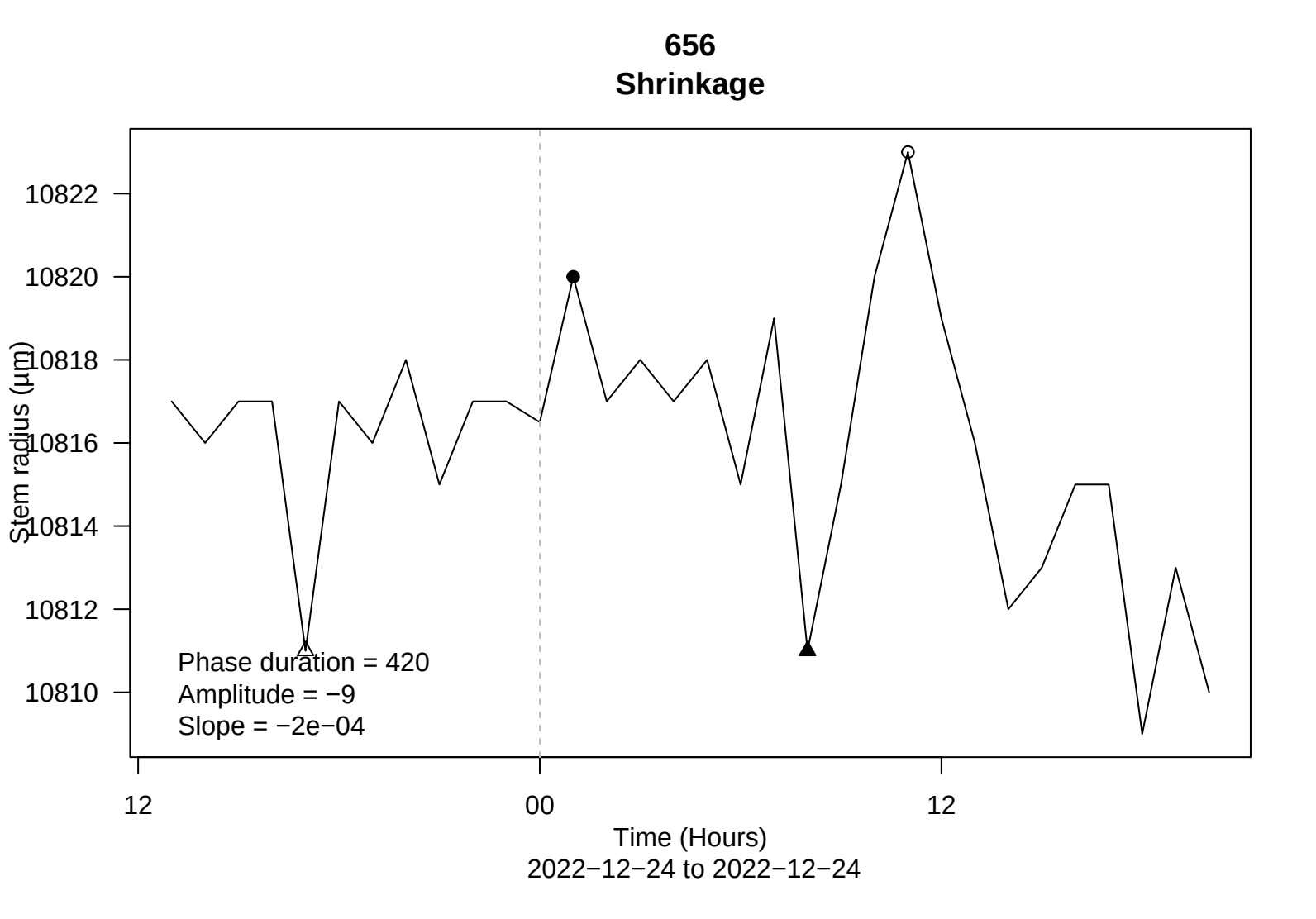

656
Shrinkage
10845
10840
10835
Stem radius (µm)
Phase duration = 360
Amplitude = −13
Slope = −5e−04
00
12
00
Time (Hours)
2022−12−21 to 2022−12−21

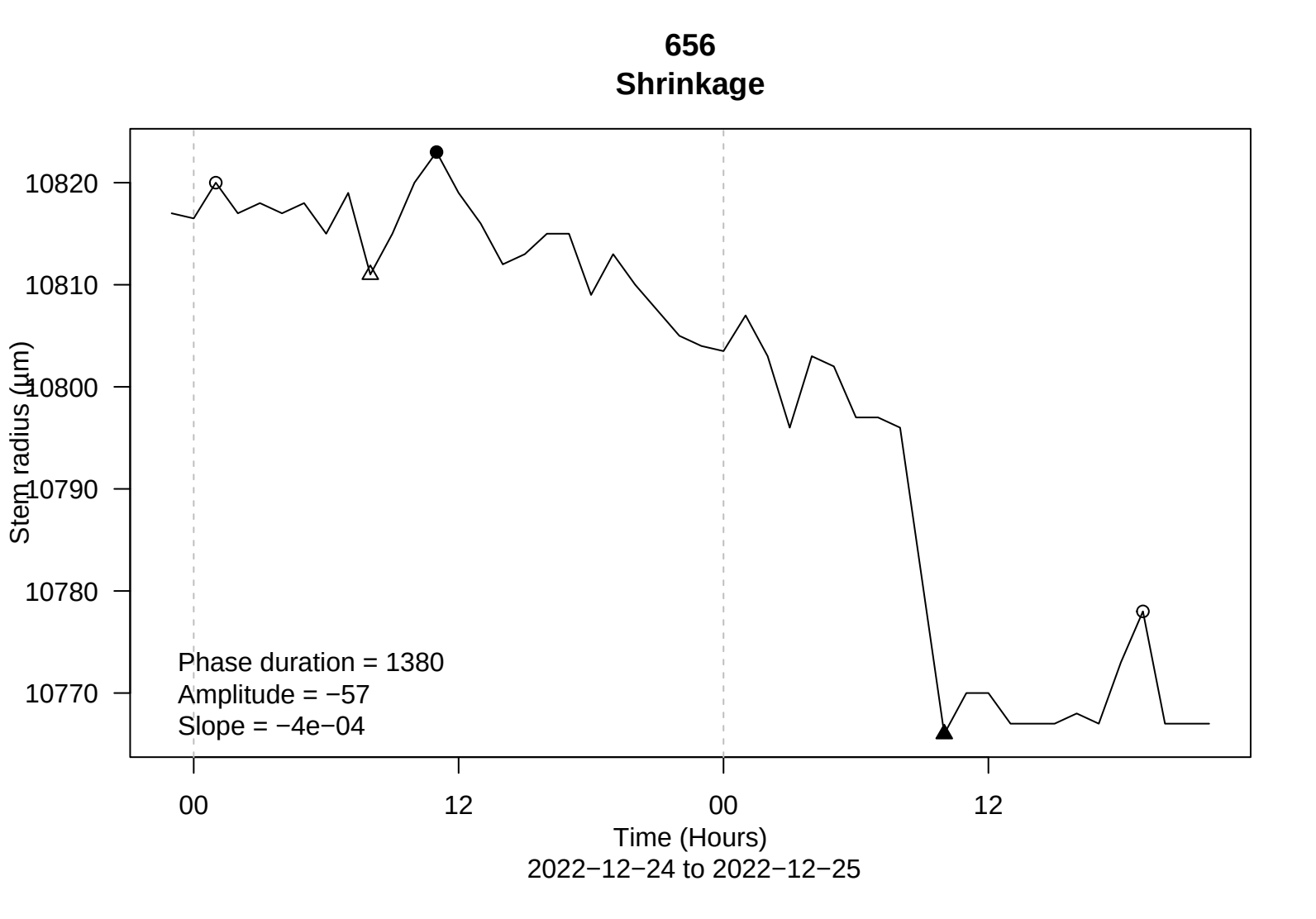

656
Expansion
10840
10835
10830
10825
10820
10815
10810
Stem radius (µm)
Phase duration = 720
Amplitude = 4
Slope = 0
00
12
00
Time (Hours)
2022−12−22 to 2022−12−22

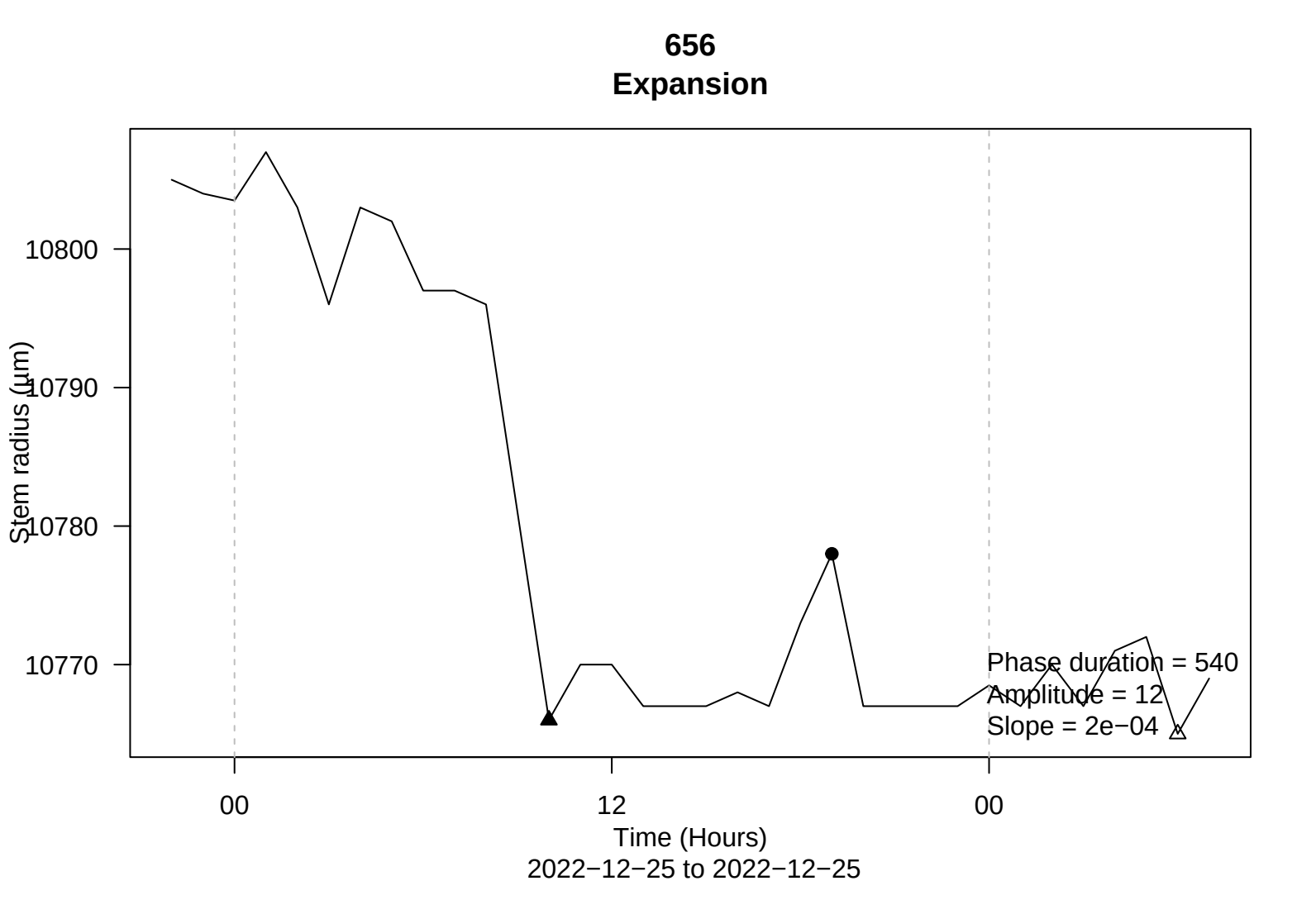

656
Shrinkage
10820
10818
10816
10814
10812
10810
Stem radius (µm)
Phase duration = 660
Amplitude = −11
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−22 to 2022−12−23

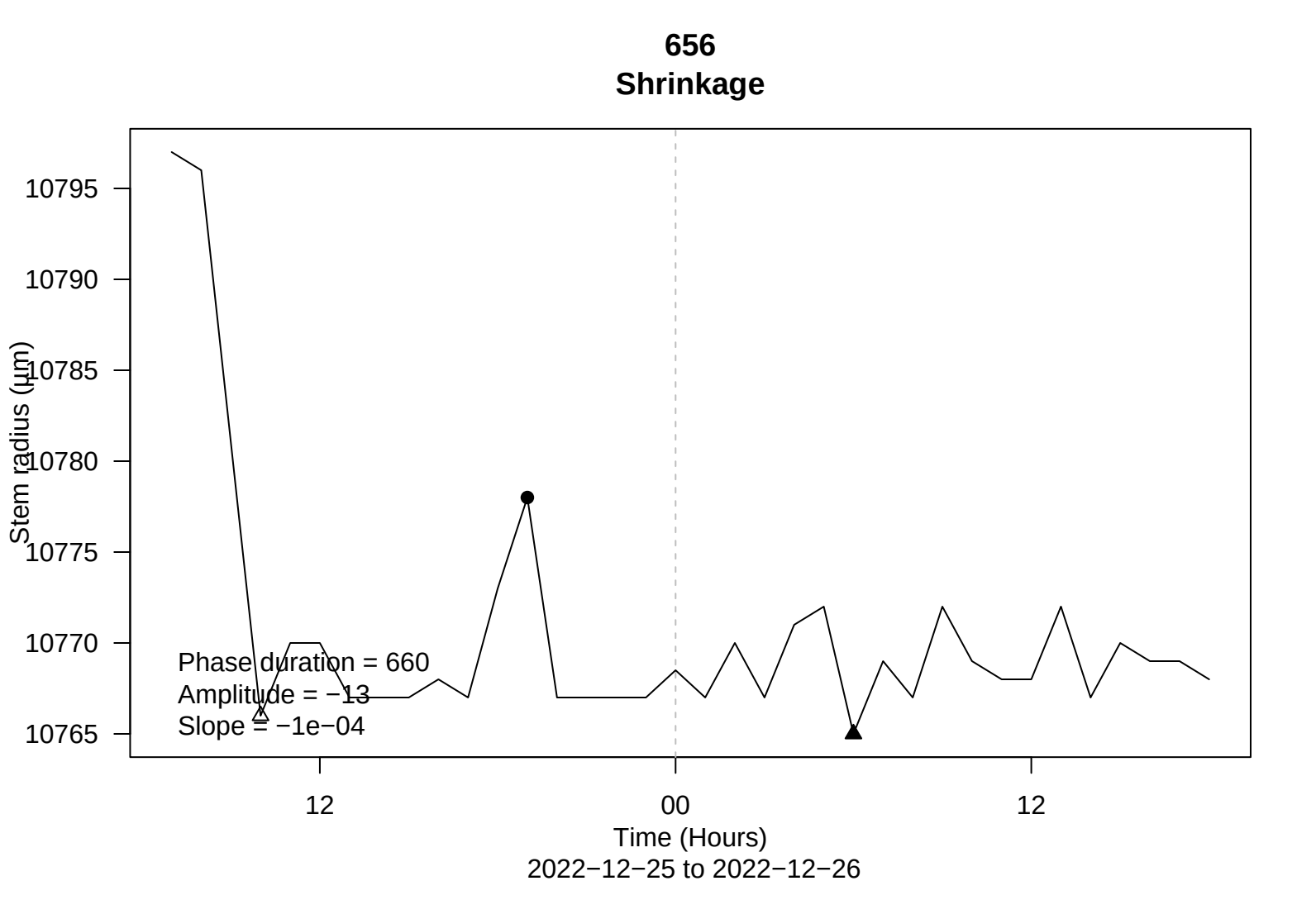

656
Shrinkage
Stem radius (µm)
10820
10818
10816
10814
10812
10810
Phase duration = 720
Amplitude = −9
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−23 to 2022−12−23

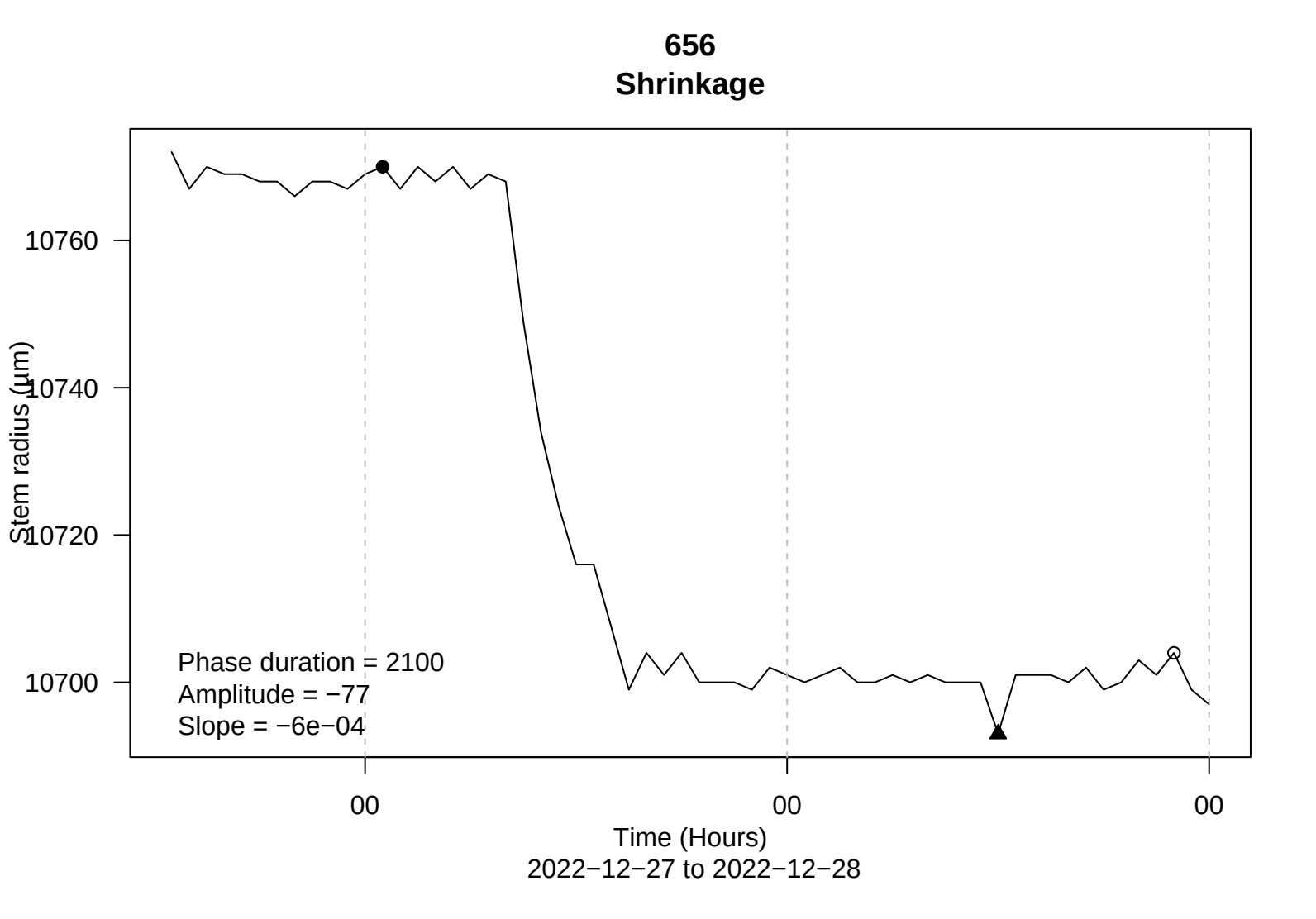

656
Expansion
10822
10820
10818
10816
10814
10812
Stem radius (µm)
Phase duration = 480
Amplitude = 9
Slope = 2e−04
12
00
12
Time (Hours)
2022−12−23 to 2022−12−24

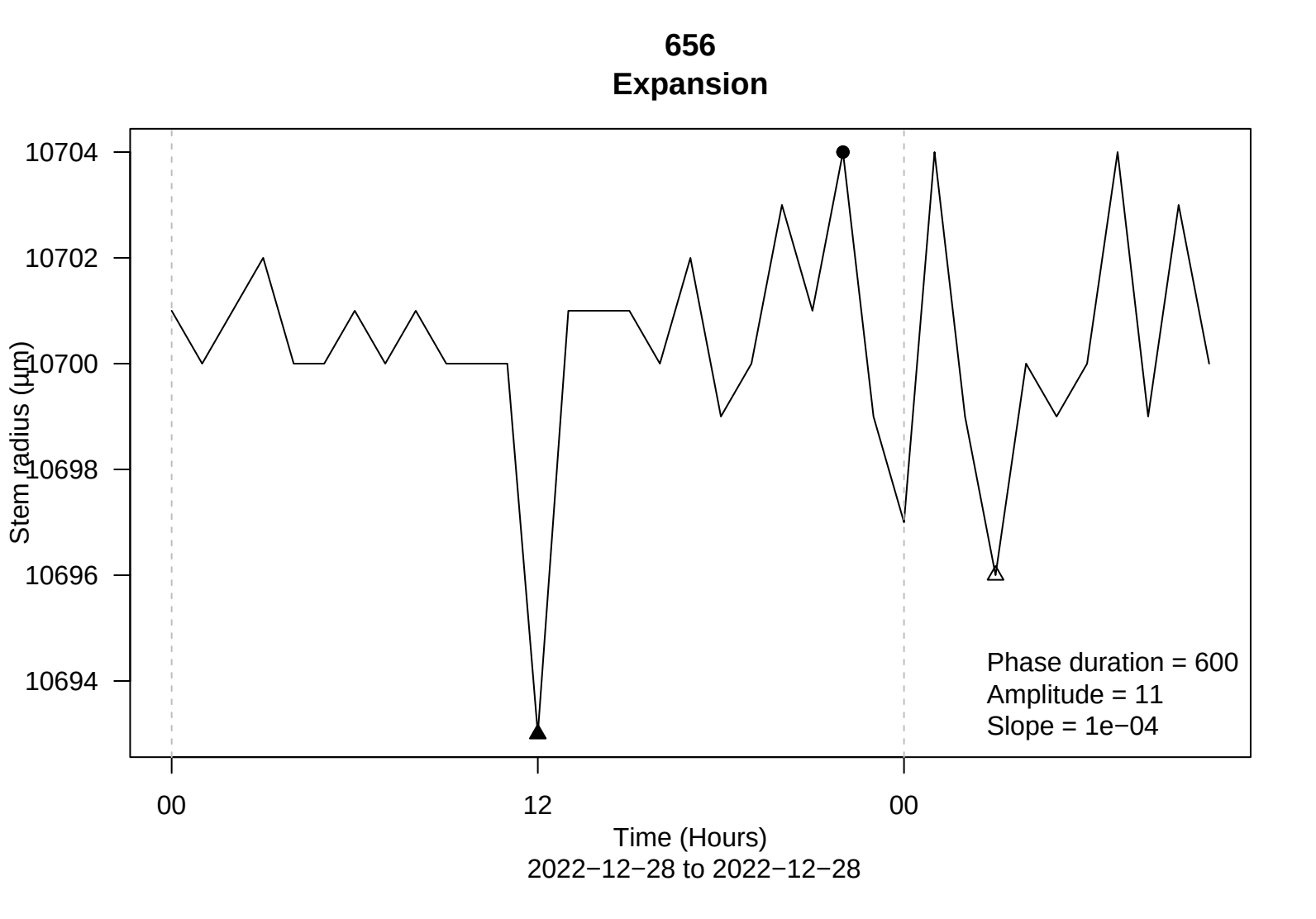

656
Shrinkage
10822
10820
10818
10816
10814
10812
10810
Stem radius (µm)
Phase duration = 420
Amplitude = −9
Slope = −2e−04
12
00
12
Time (Hours)
2022−12−24 to 2022−12−24

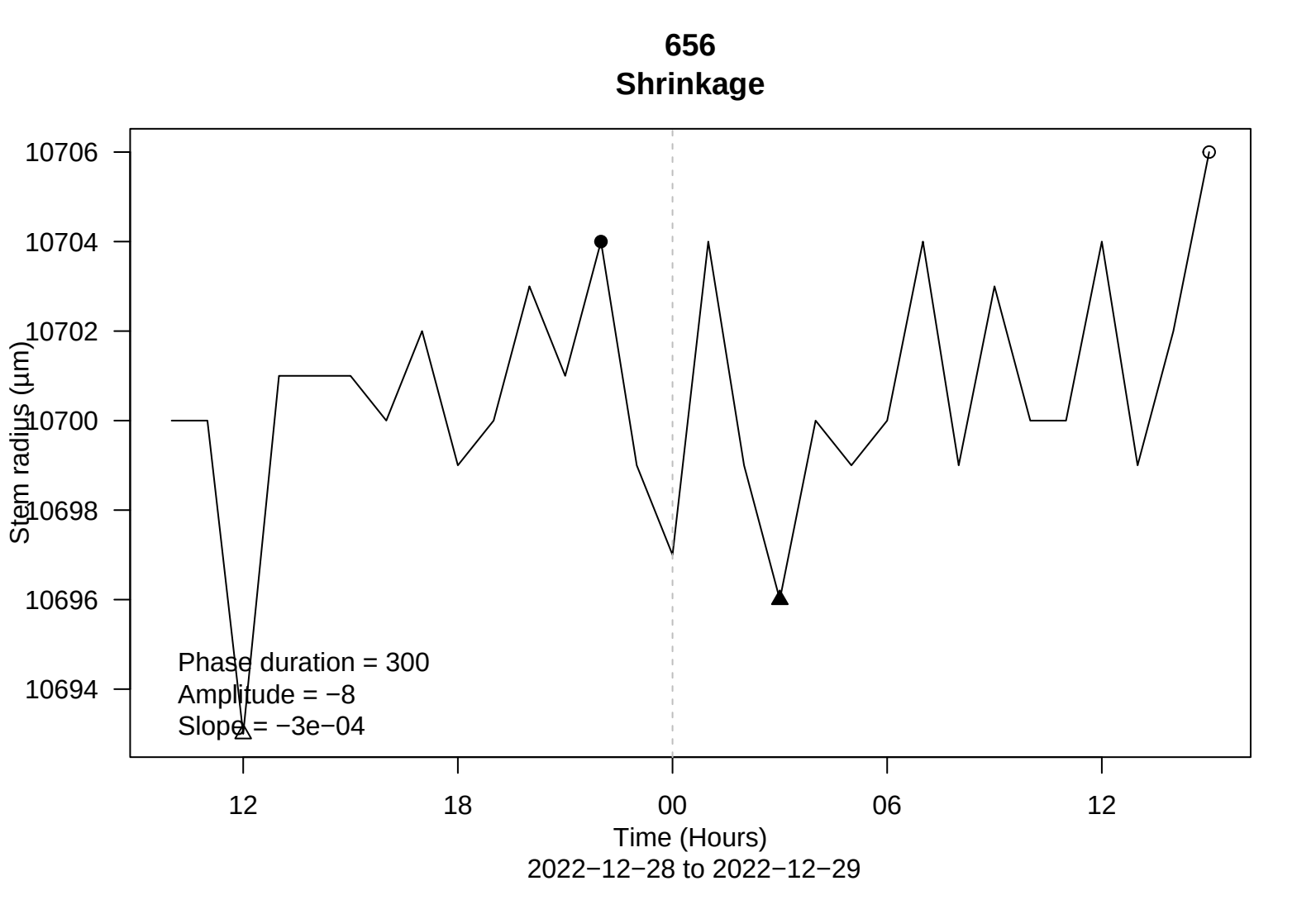

656
Shrinkage
10820
10810
10800
10790
10780
10770
Stem radius (µm)
Phase duration = 1380
Amplitude = −57
Slope = −4e−04
00
12
00
12
Time (Hours)
2022−12−24 to 2022−12−25

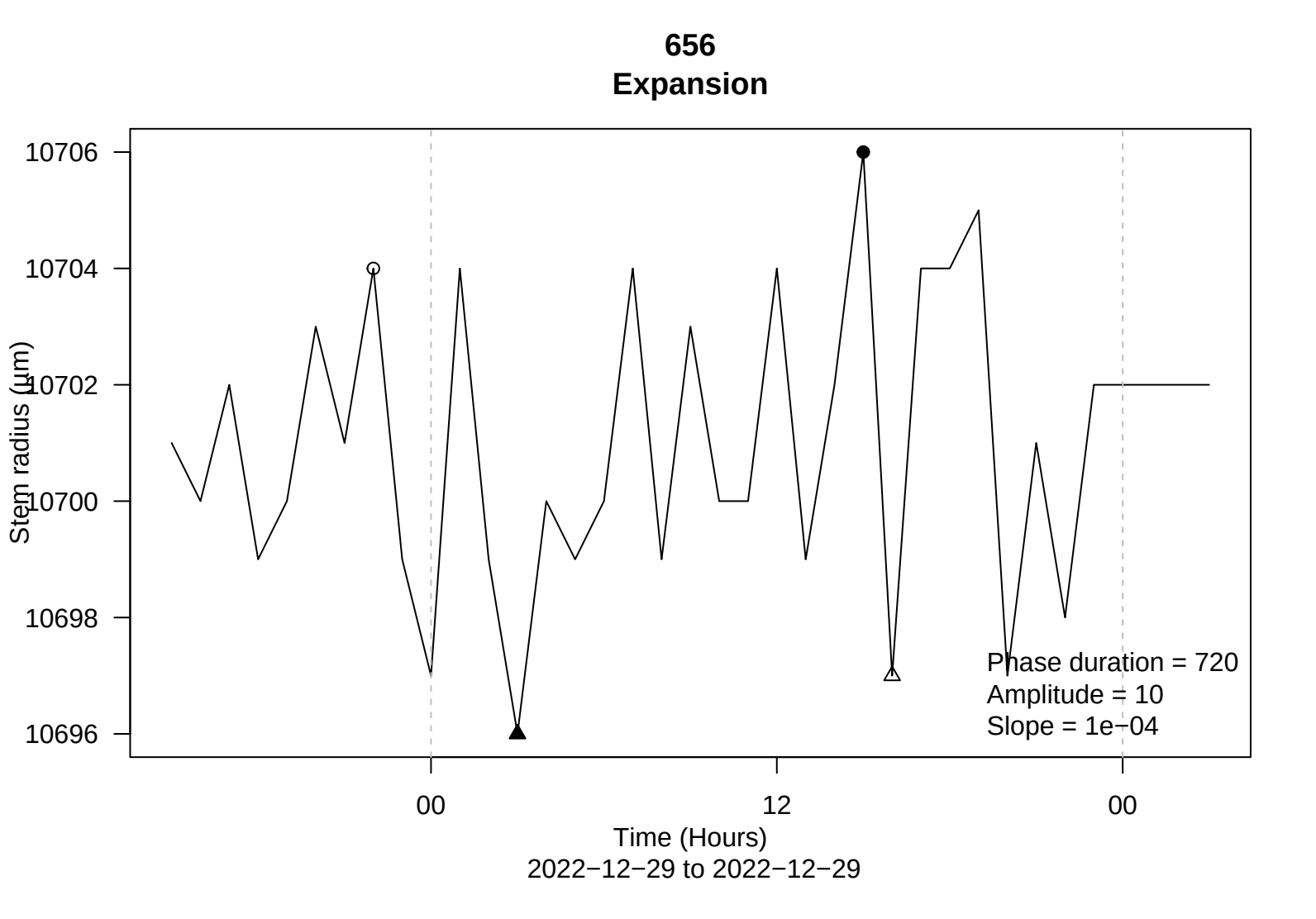

656
Expansion
10800
10790
10780
10770
Stem radius (µm)
Phase duration = 540
Amplitude = 12
Slope = 2e−04
00
12
00
Time (Hours)
2022−12−25 to 2022−12−25

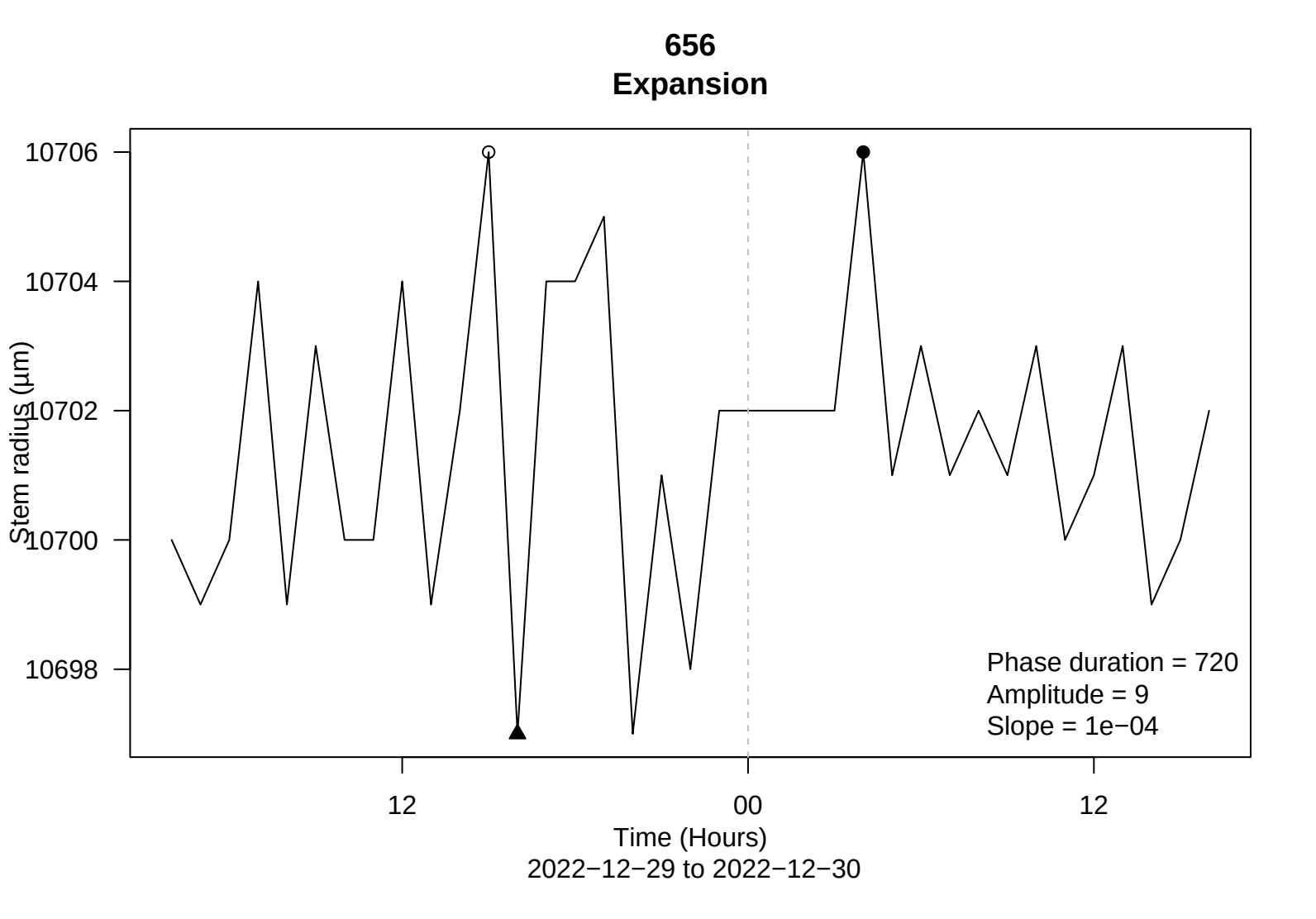

656
Shrinkage
10795
10790
10785
10780
10775
10770
10765
Stem radius (µm)
Phase duration = 660
Amplitude = −13
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−25 to 2022−12−26

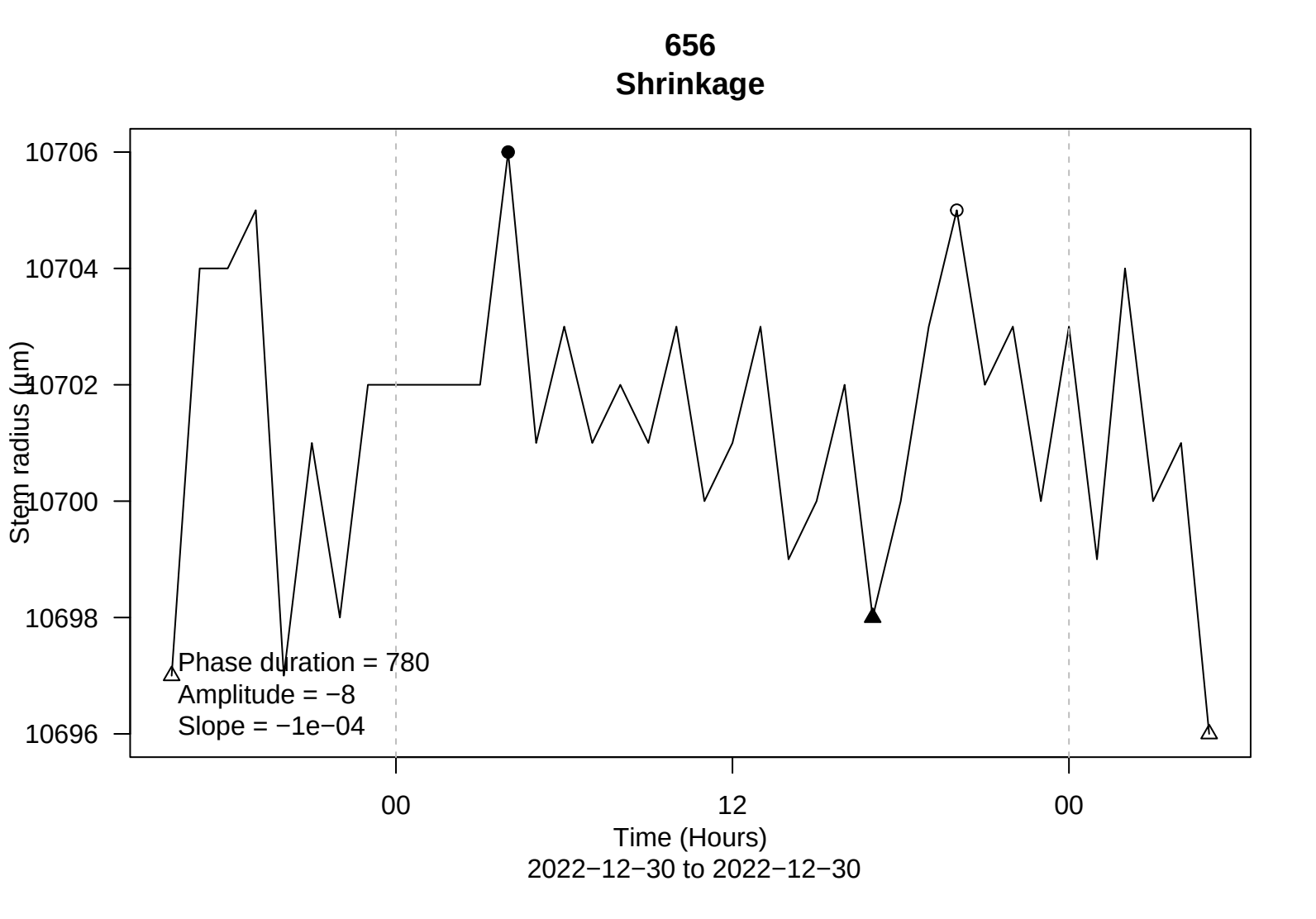

656
Shrinkage
10760
10740
10720
10700
Stem radius (µm)
Phase duration = 2100
Amplitude = −77
Slope = −6e−04
00
00
00
Time (Hours)
2022−12−27 to 2022−12−28

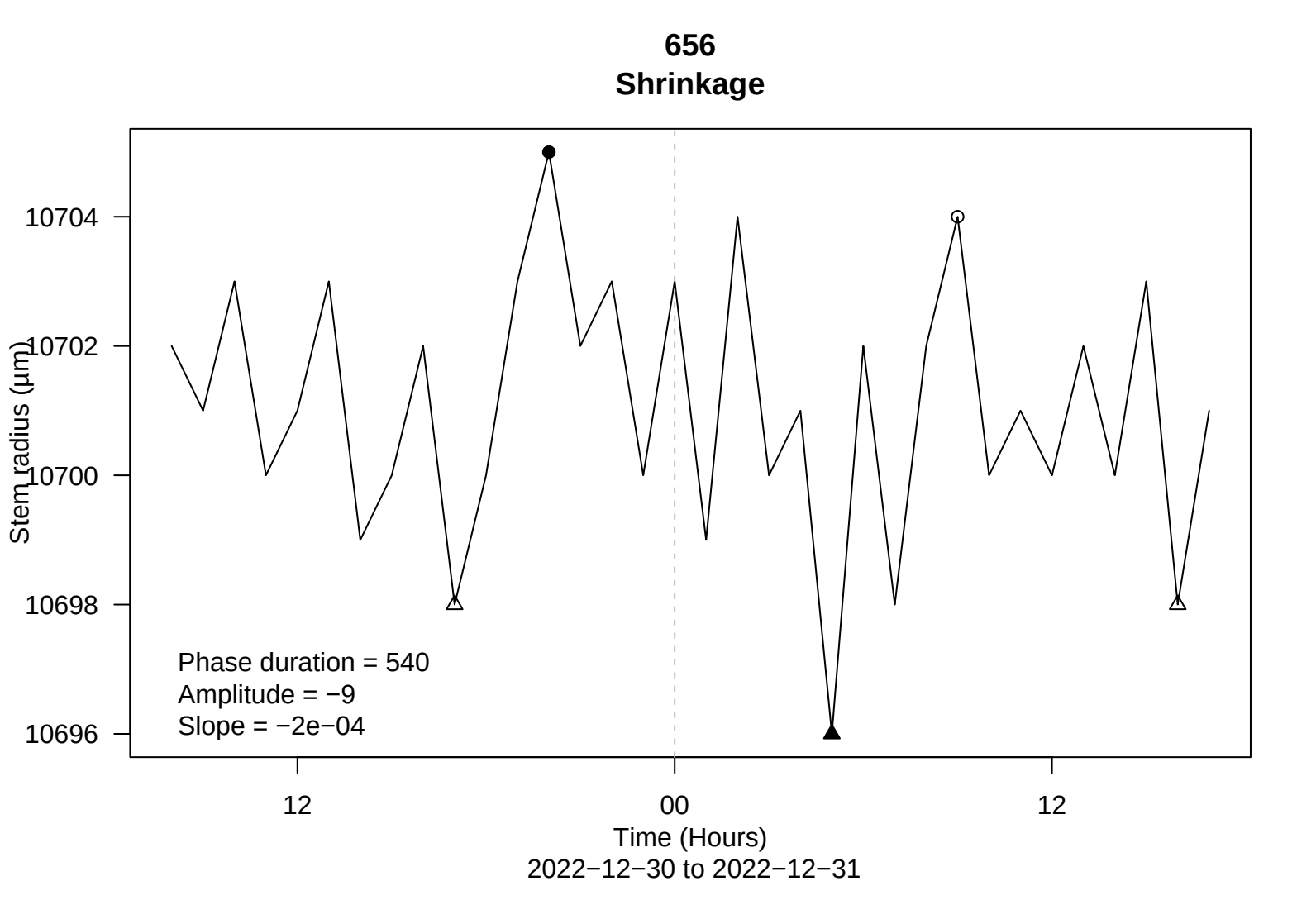

656
Expansion
10704
10702
10700
10698
10696
10694
Stem radius (µm)
Phase duration = 600
Amplitude = 11
Slope = 1e−04
00
12
00
Time (Hours)
2022−12−28 to 2022−12−28

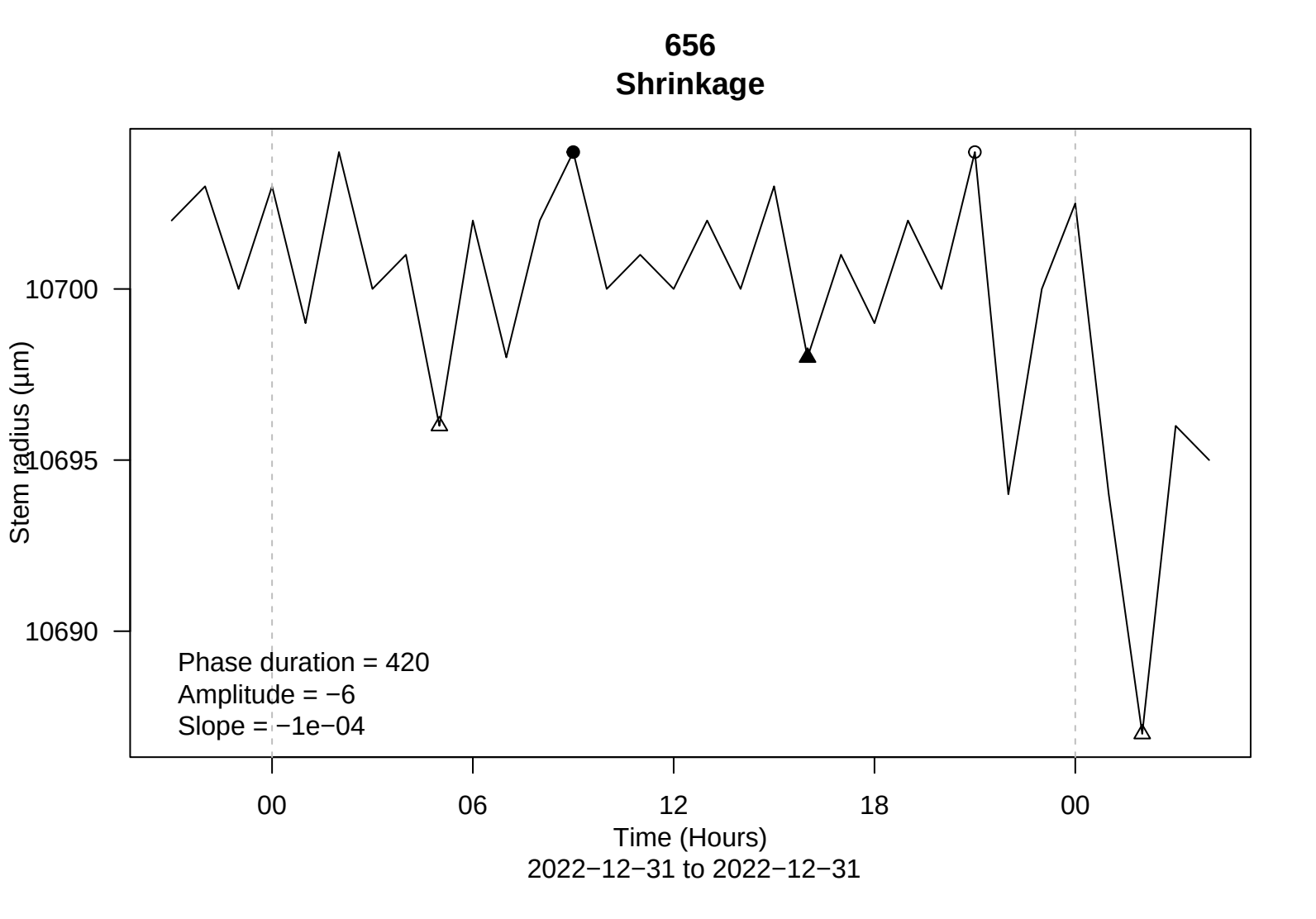

656
Shrinkage
10706
10704
10702
10700
10698
10696
10694
Stem radius (µm)
Phase duration = 300
Amplitude = −8
Slope = −3e−04
12
18
00
06
12
Time (Hours)
2022−12−28 to 2022−12−29

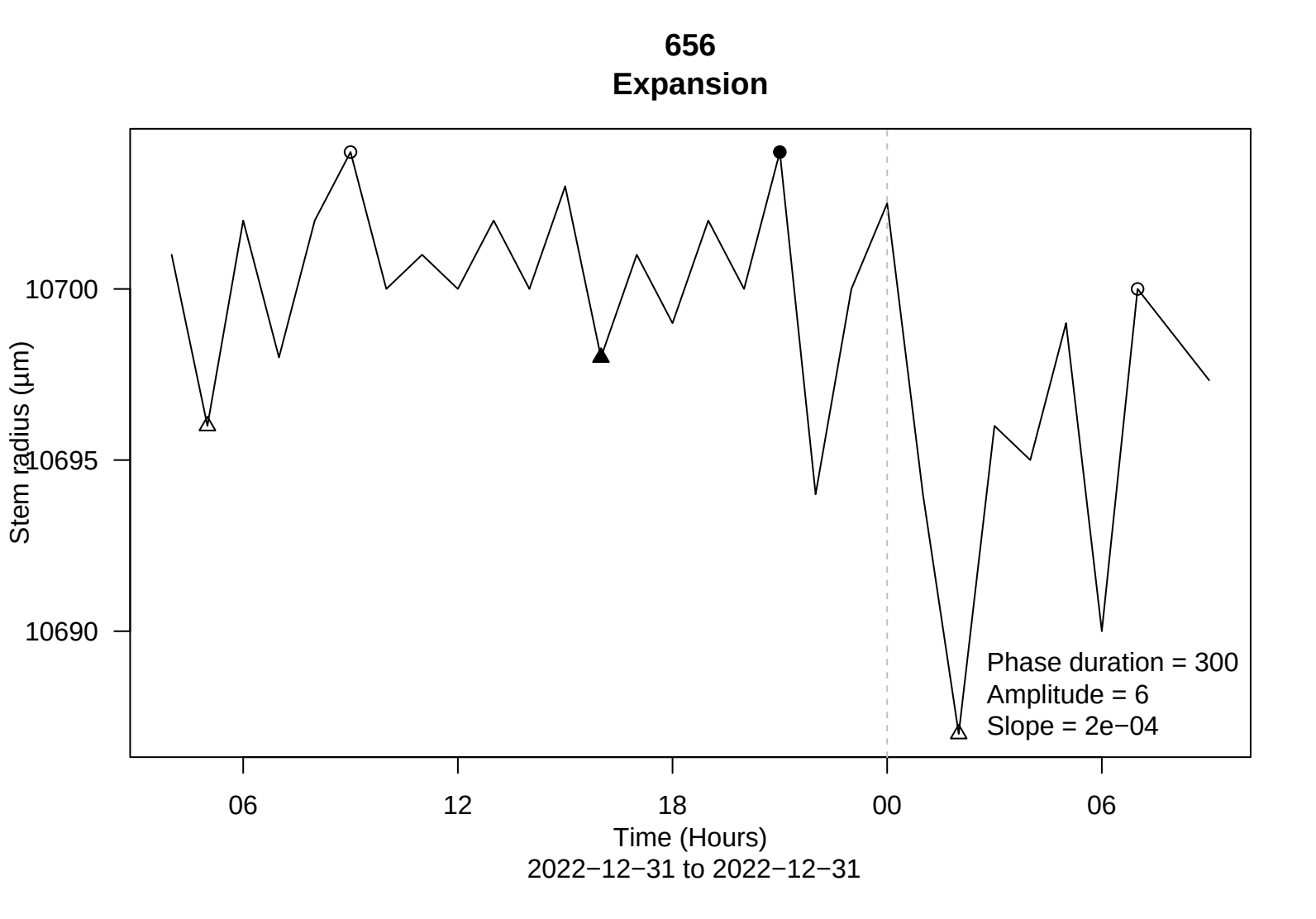

656
Expansion
10706
10704
10702
10700
10698
10696
Stem radius (µm)
00
12
00
Time (Hours)
2022−12−29 to 2022−12−29
Phase duration = 720
Amplitude = 10
Slope = 1e−04

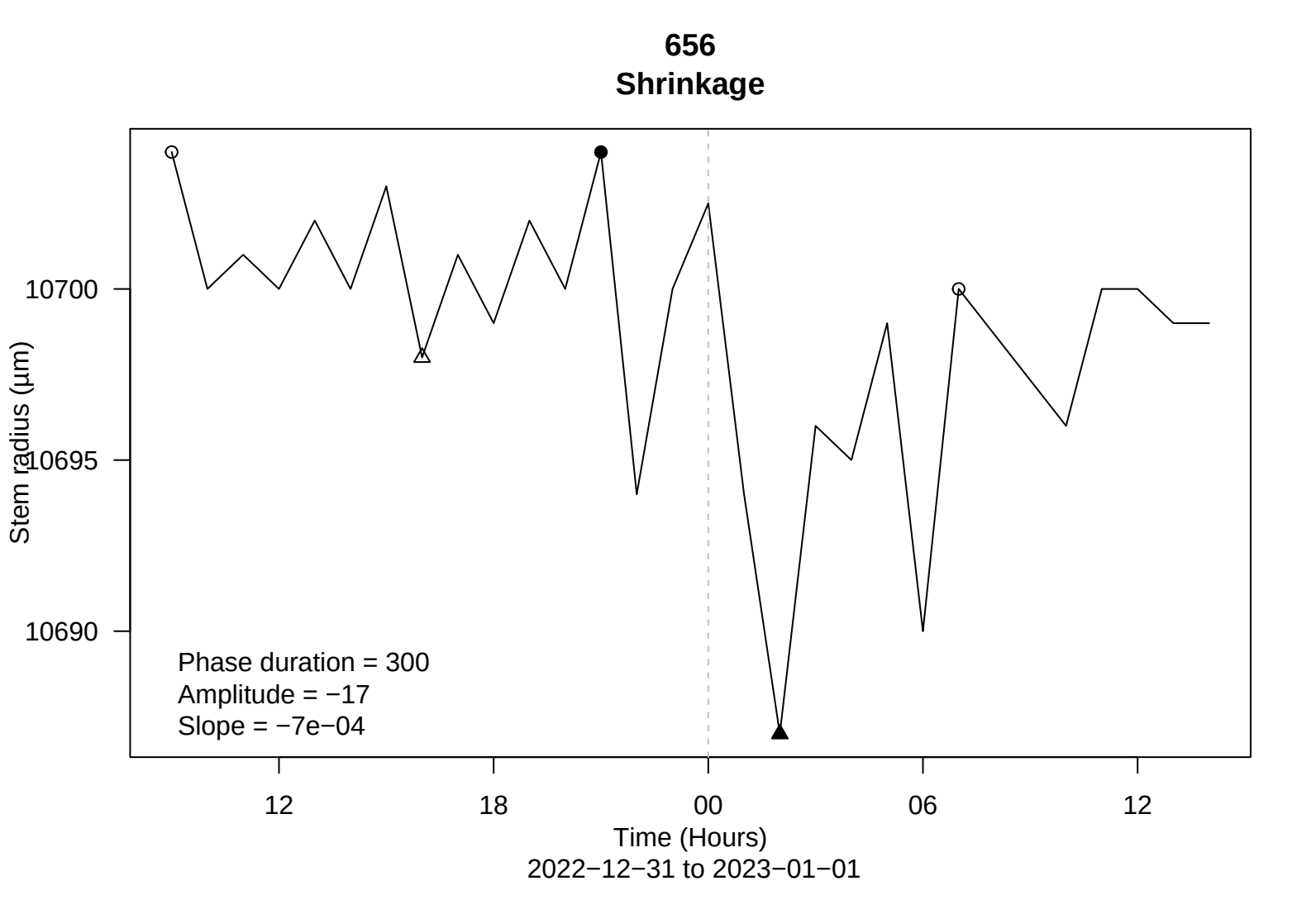

656
Expansion
10706
10704
10702
10700
10698
Stem radius (µm)
Phase duration = 720
Amplitude = 9
Slope = 1e−04
12
00
12
Time (Hours)
2022−12−29 to 2022−12−30

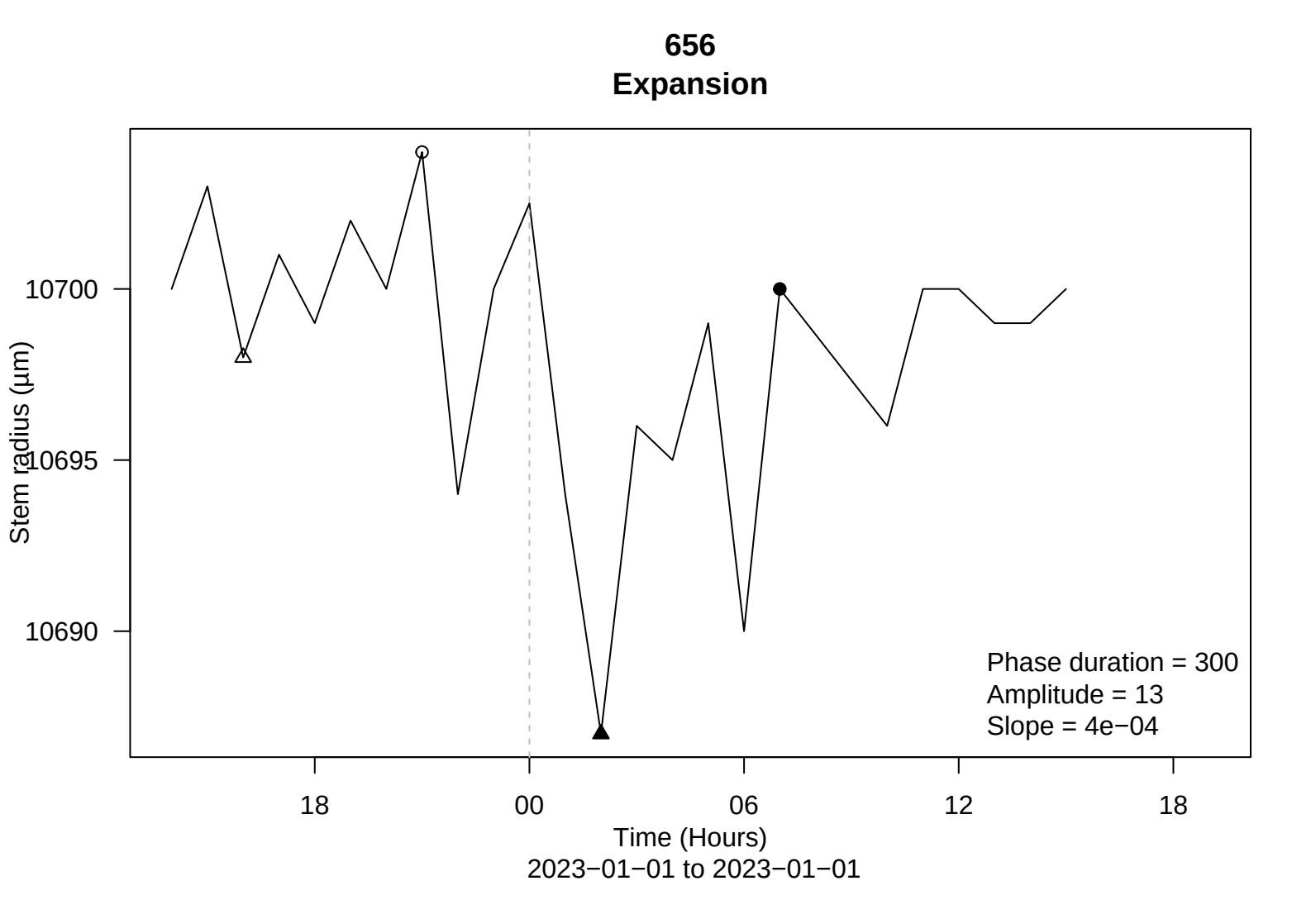

656
Shrinkage
10706
10704
10702
10700
10698
10696
Stem radius (µm)
Phase duration = 780
Amplitude = −8
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−30 to 2022−12−30

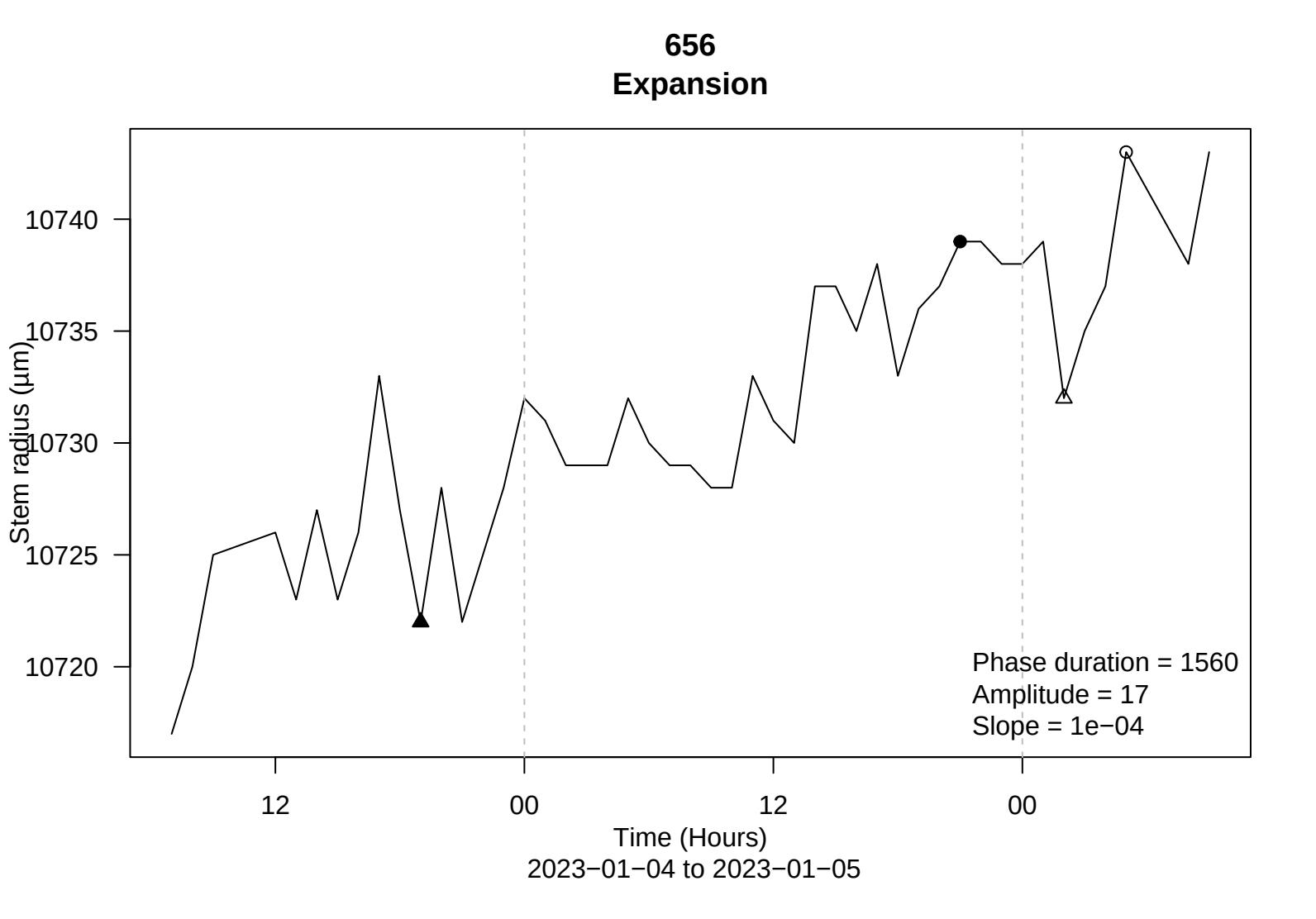

656
Shrinkage
10704
10702
10700
10698
10696
Stem radius (µm)
Phase duration = 540
Amplitude = −9
Slope = −2e−04
12
00
12
Time (Hours)
2022−12−30 to 2022−12−31

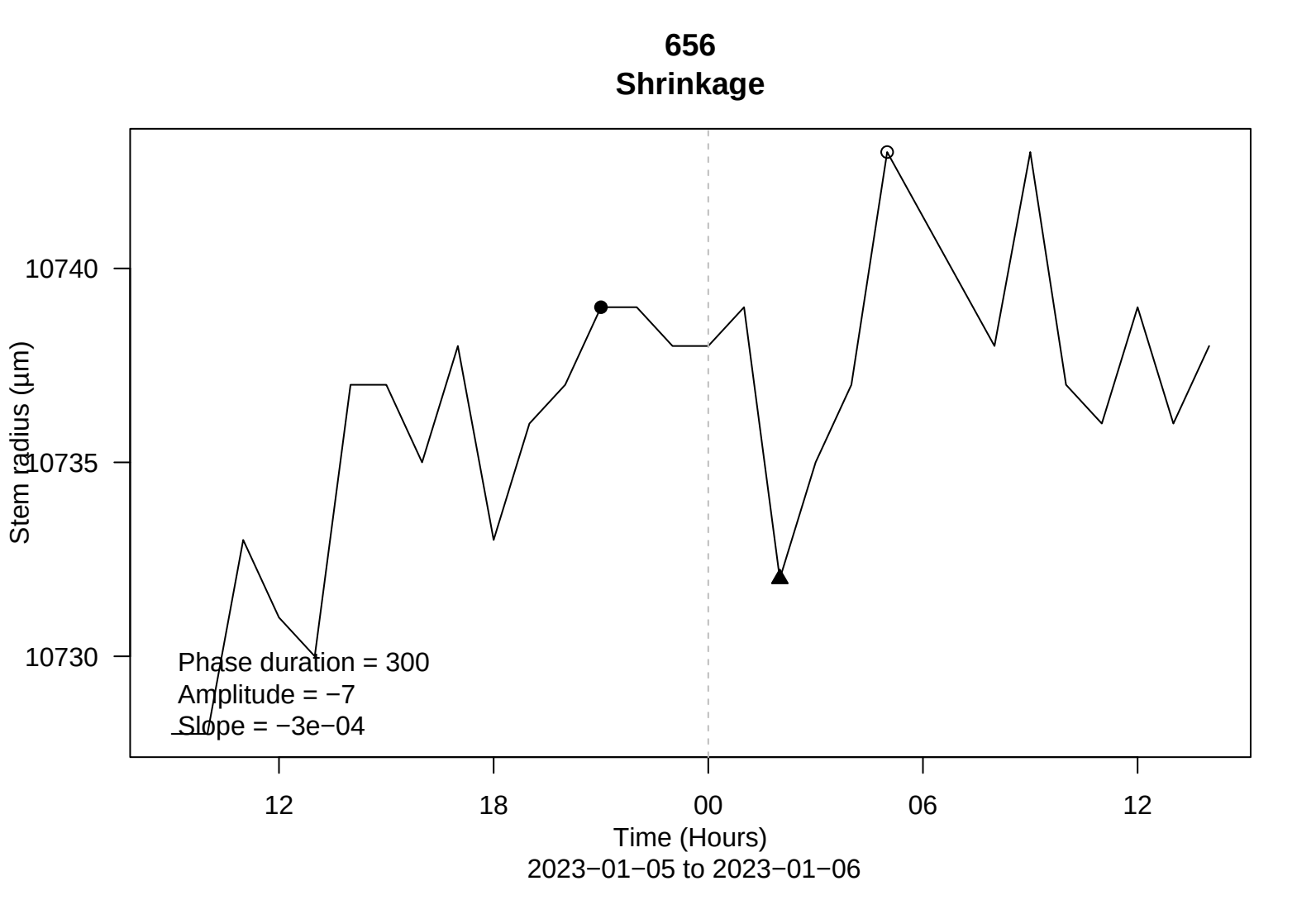

656
Shrinkage
10700
10695
10690
Stem radius (µm)
Phase duration = 420
Amplitude = −6
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2022−12−31 to 2022−12−31

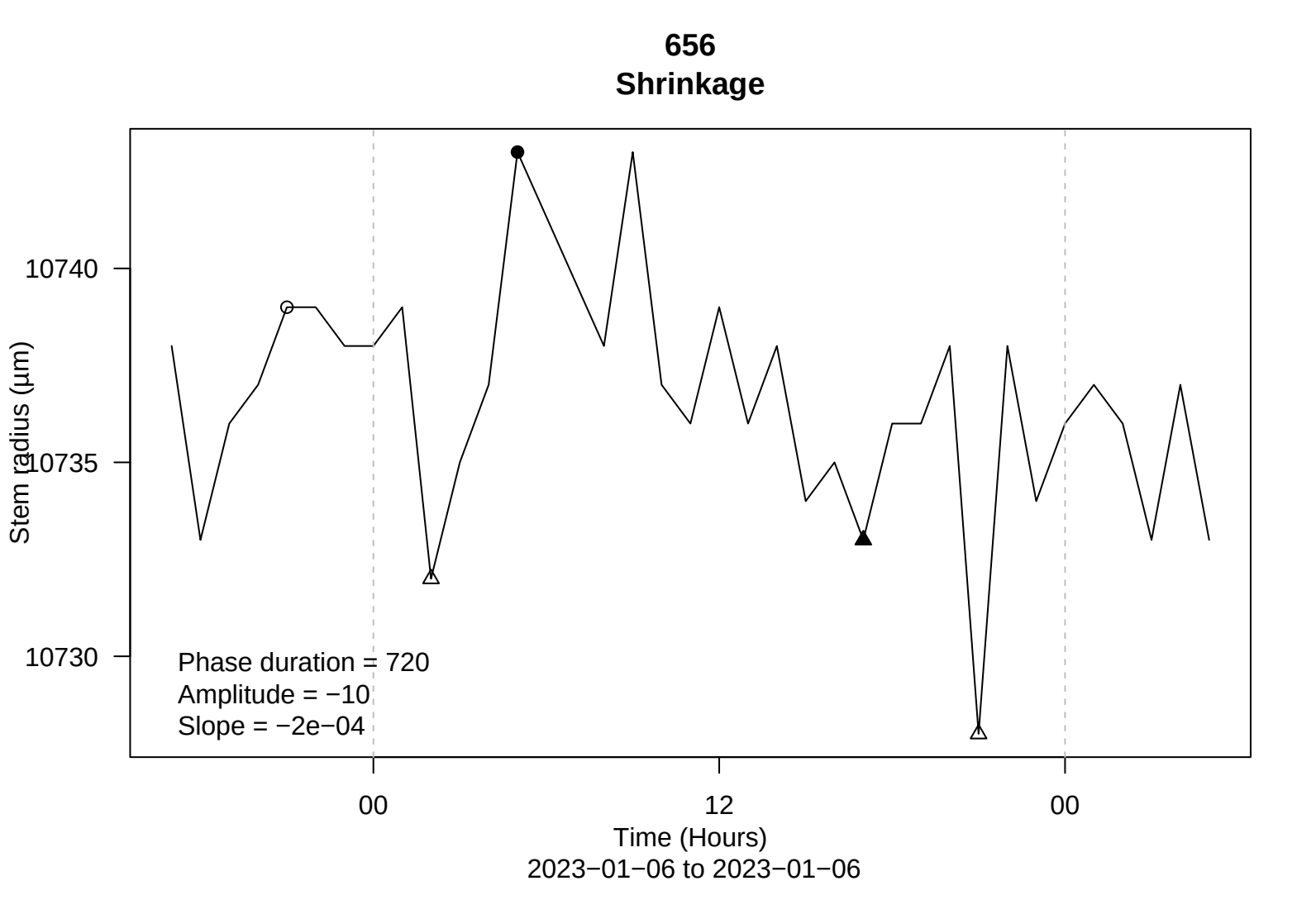

656
Expansion
10700
10695
10690
Stem radius (µm)
Phase duration = 300
Amplitude = 6
Slope = 2e−04
06
12
18
00
06
Time (Hours)
2022−12−31 to 2022−12−31

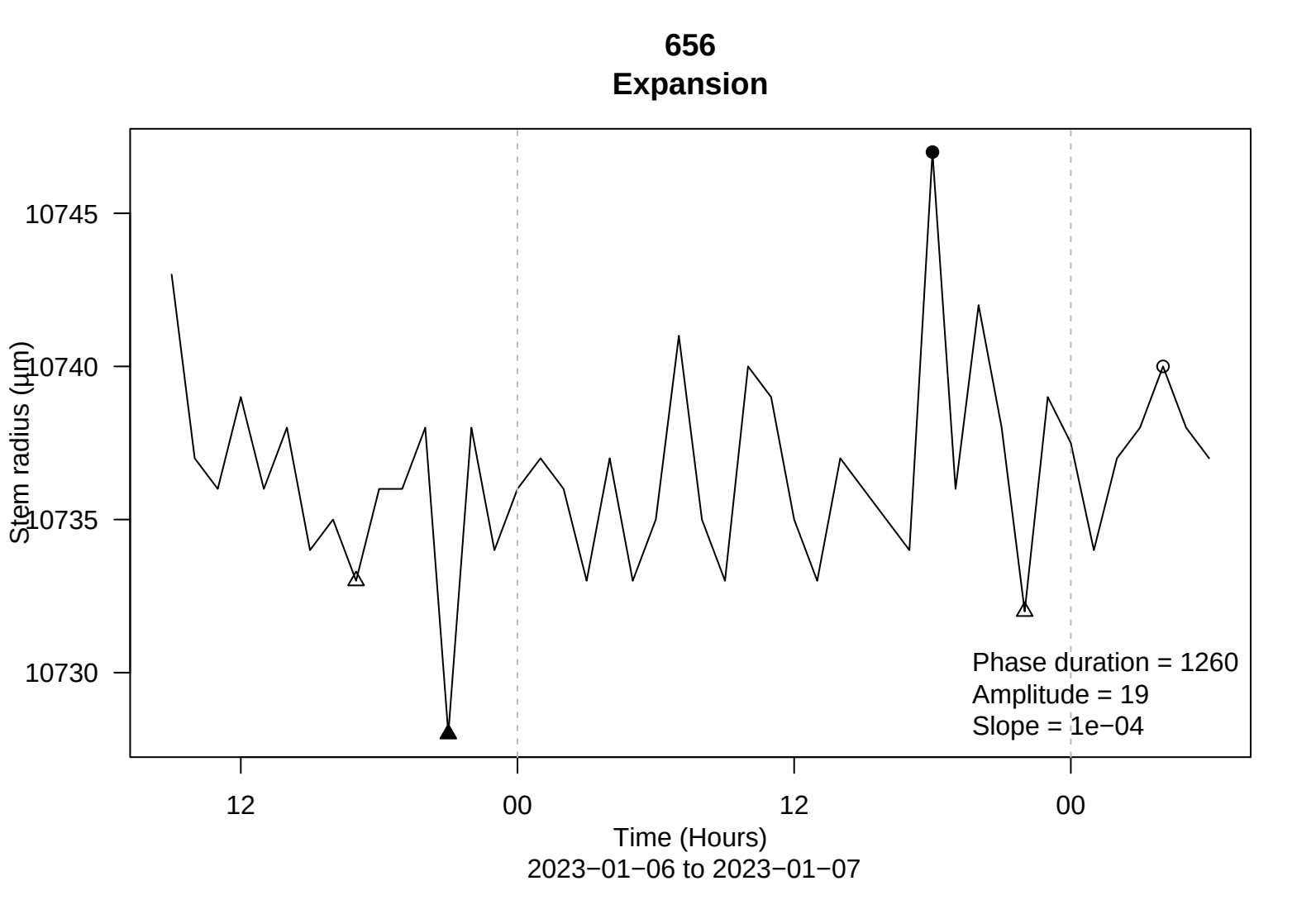

656
Shrinkage
10700
10695
10690
Stem radius (µm)
Phase duration = 300
Amplitude = −17
Slope = −7e−04
12
18
00
06
12
Time (Hours)
2022−12−31 to 2023−01−01

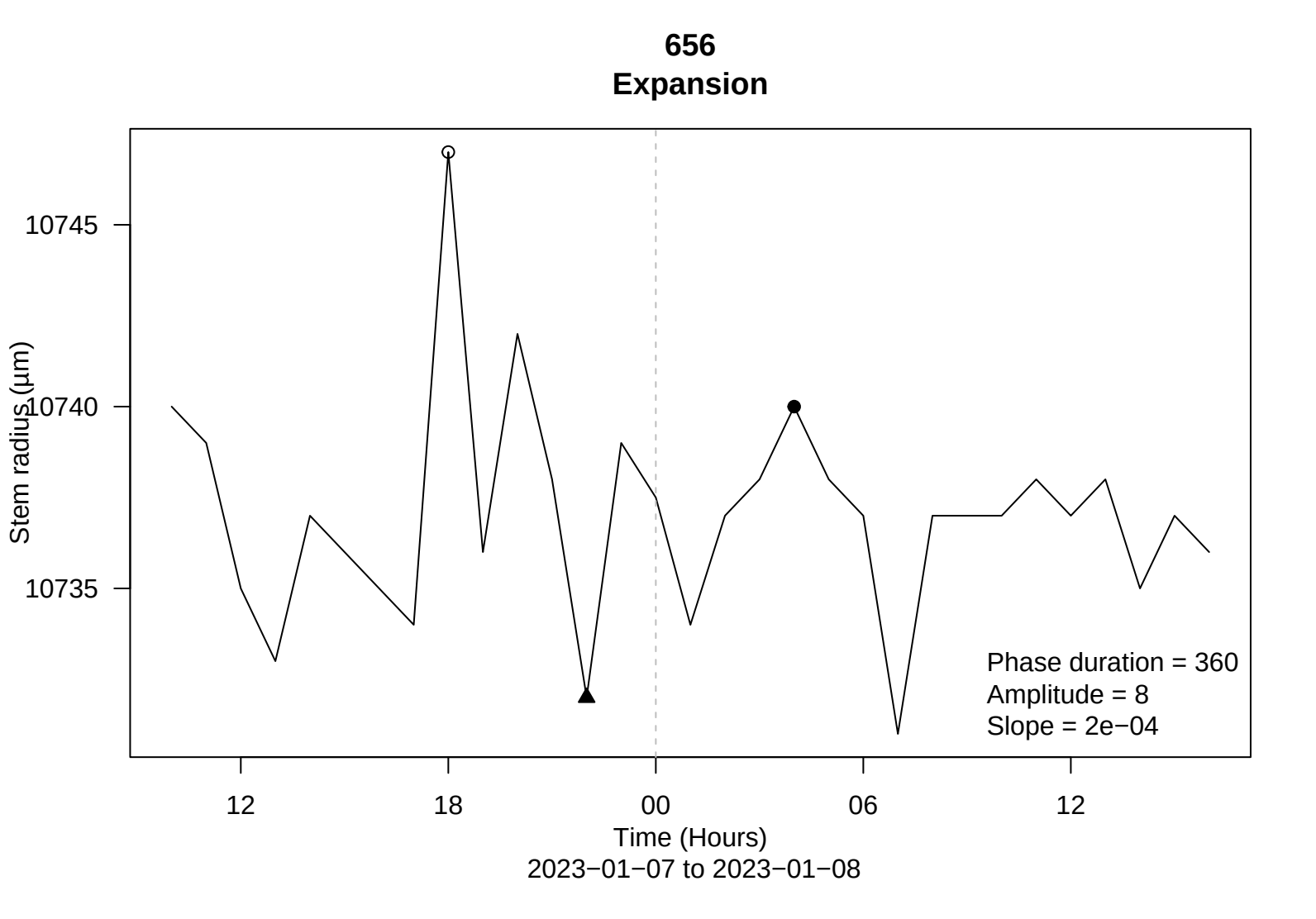

656
Expansion
10700
10695
10690
Stem radius (µm)
Phase duration = 300
Amplitude = 13
Slope = 4e−04
18
00
06
12
18
Time (Hours)
2023−01−01 to 2023−01−01

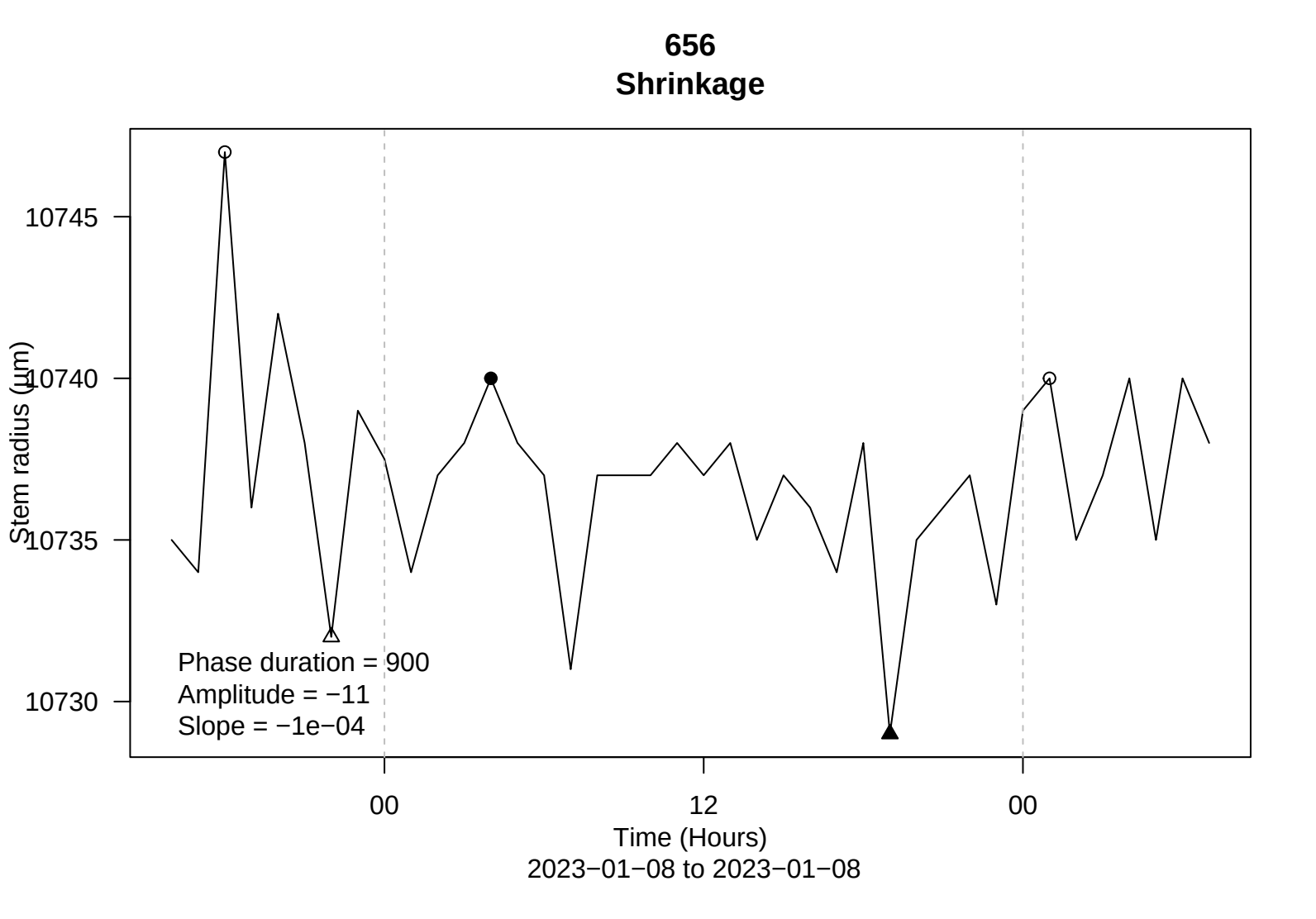

656
Expansion
10740
10735
10730
10725
10720
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−01−04 to 2023−01−05
Phase duration = 1560
Amplitude = 17
Slope = 1e−04

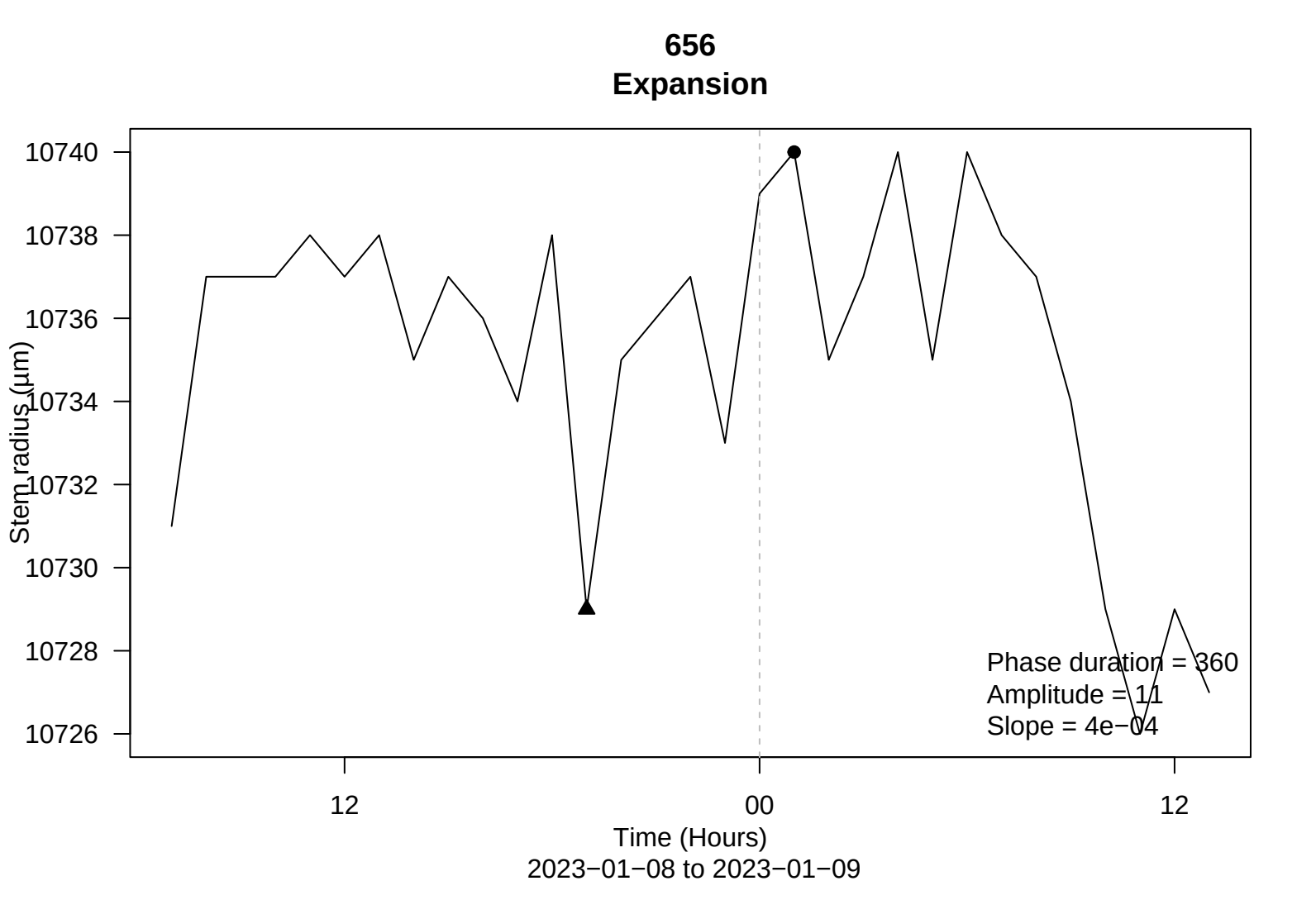

656
Shrinkage
Stem radius (µm)
10740
10735
10730
Phase duration = 300
Amplitude = −7
Slope = −3e−04
12
18
00
06
12
Time (Hours)
2023−01−05 to 2023−01−06

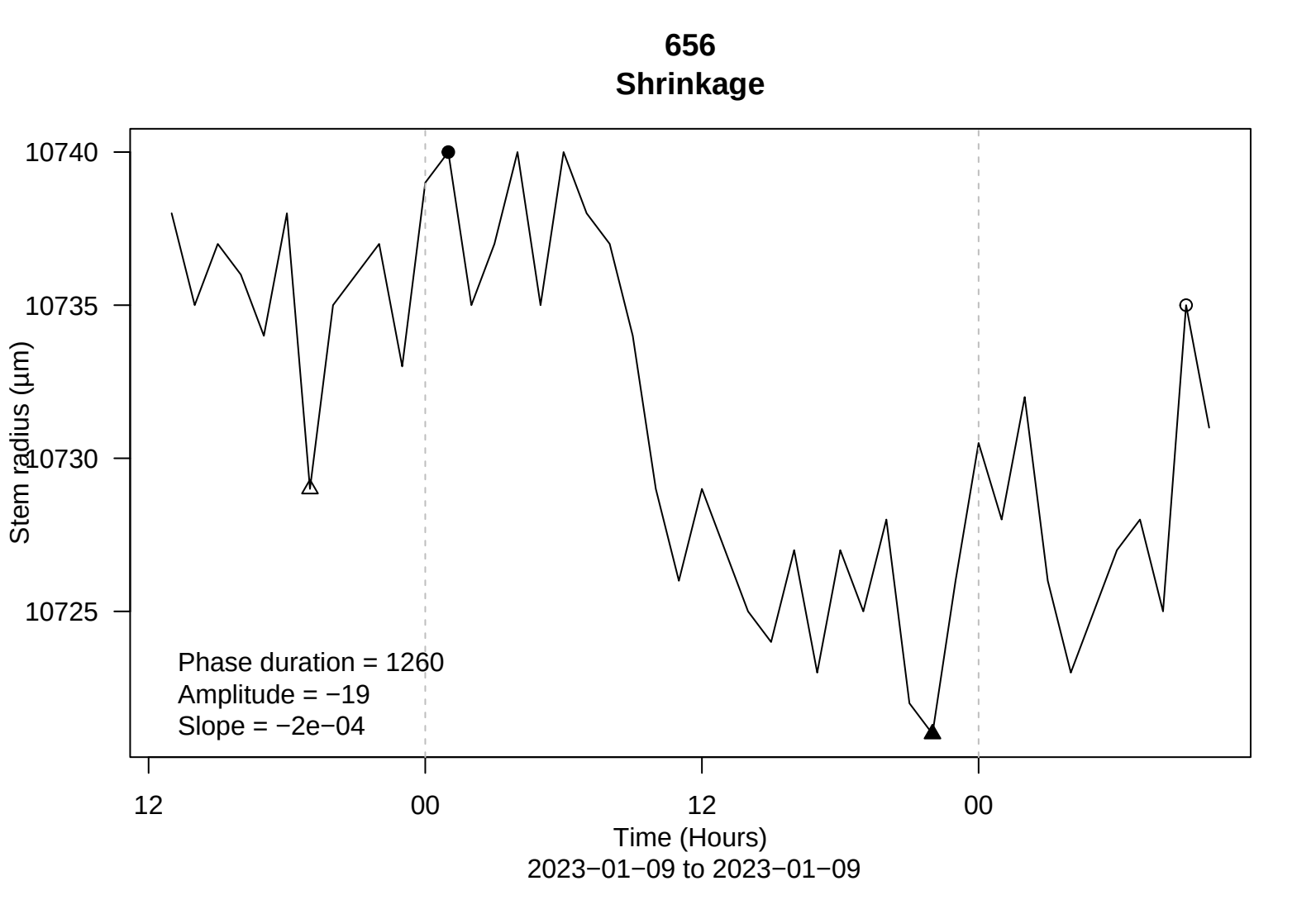

656
Shrinkage
10740
10735
10730
Stem radius (µm)
Phase duration = 720
Amplitude = −10
Slope = −2e−04
00
12
00
Time (Hours)
2023−01−06 to 2023−01−06

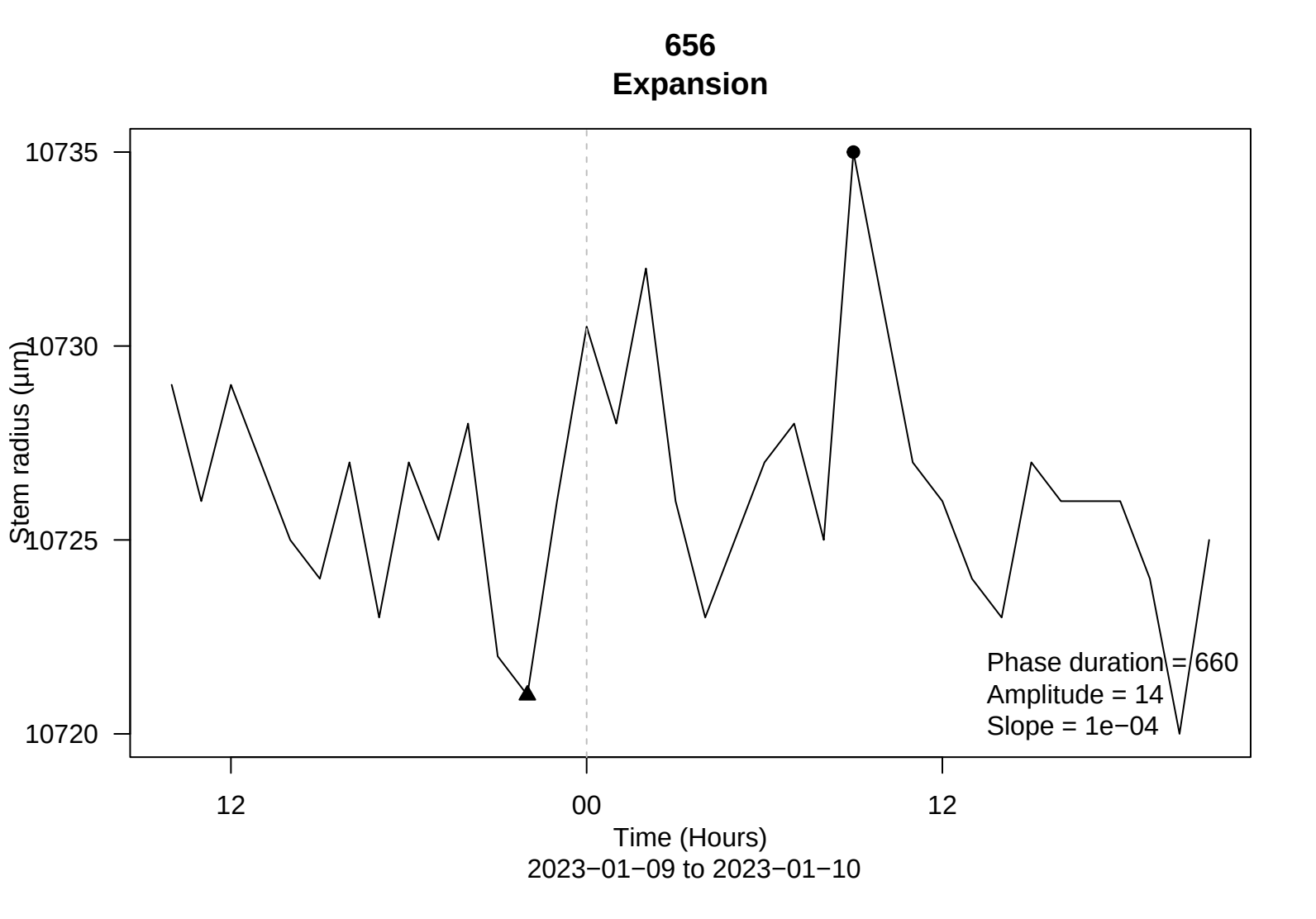

656
Expansion
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 1260
Amplitude = 19
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−01−06 to 2023−01−07

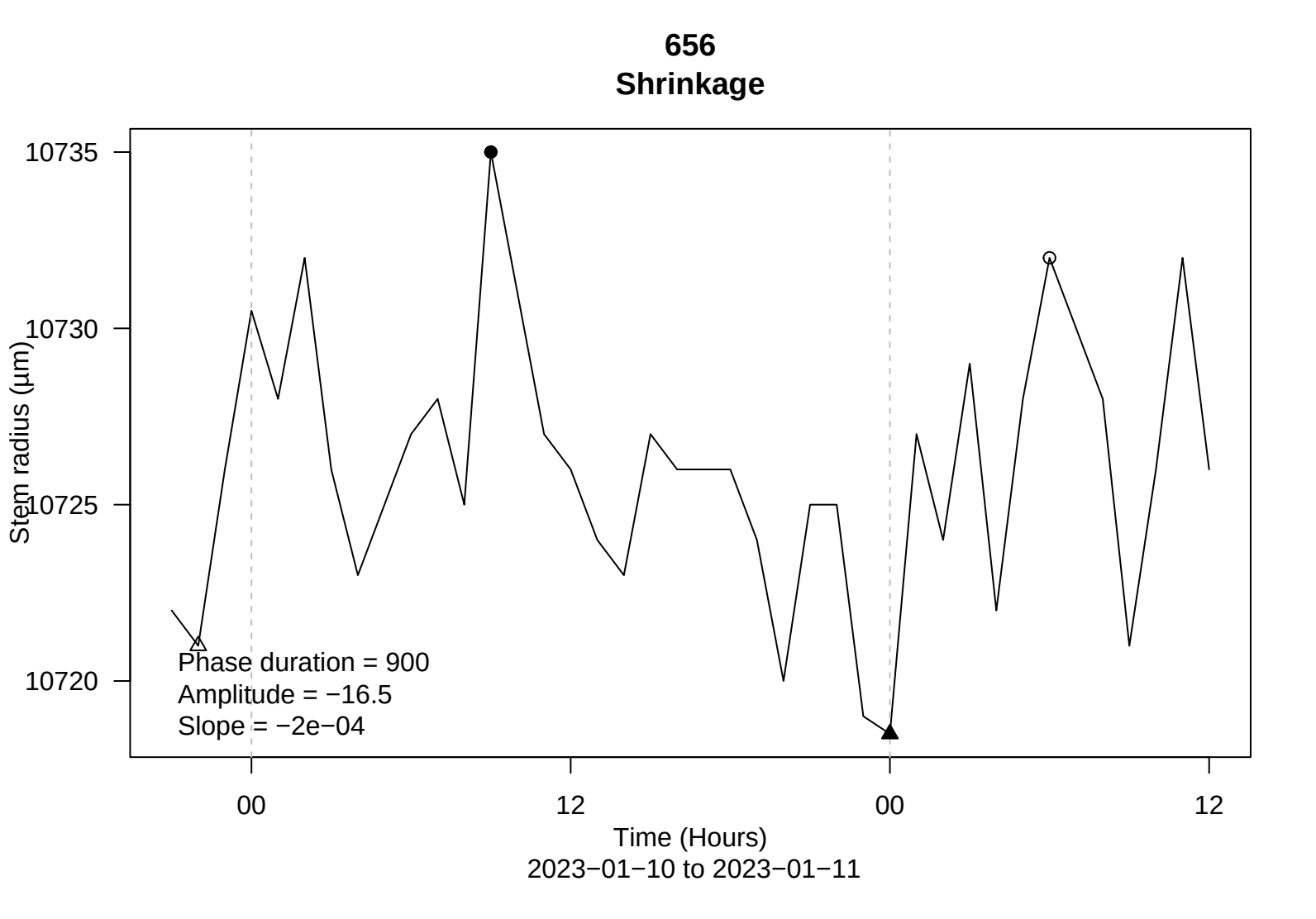

656
Expansion
10745
10740
10735
Stem radius (µm)
Phase duration = 360
Amplitude = 8
Slope = 2e−04
12
18
00
06
12
Time (Hours)
2023−01−07 to 2023−01−08

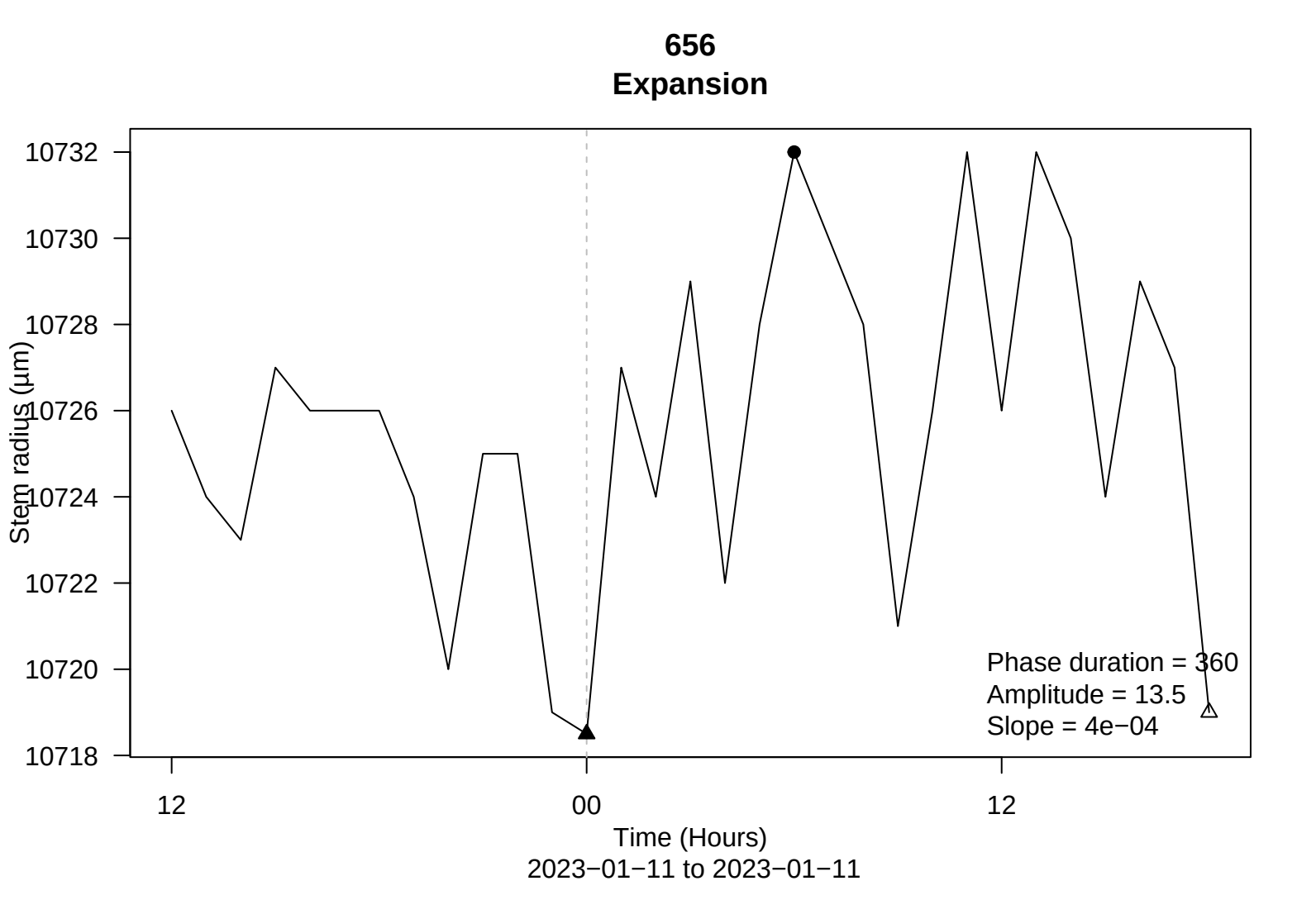

656
Shrinkage
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 900
Amplitude = −11
Slope = −1e−04
00
12
00
Time (Hours)
2023−01−08 to 2023−01−08

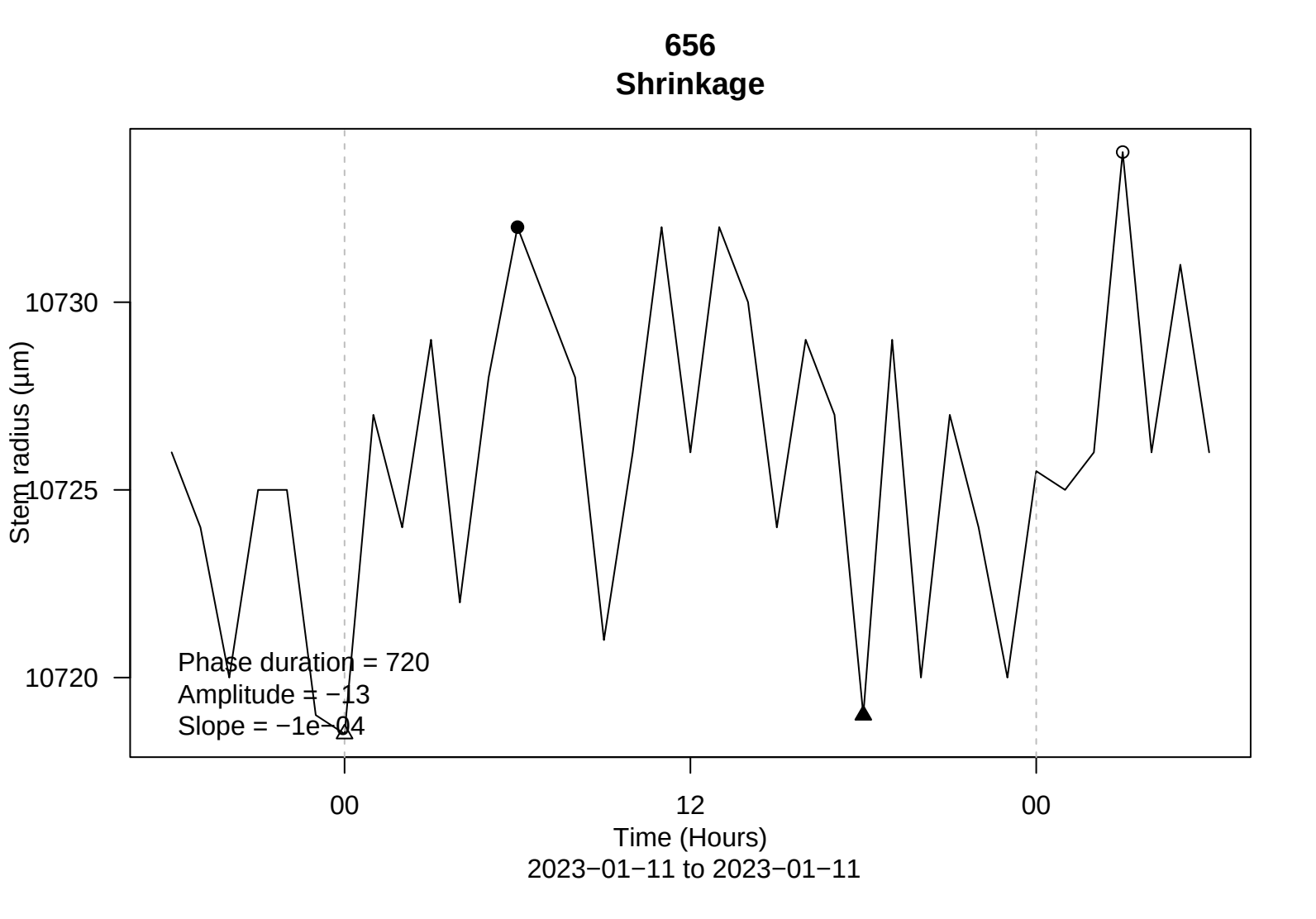

656
Expansion
10740
10738
10736
10734
10732
10730
10728
10726
Stem radius (µm)
12
00
12
Time (Hours)
2023−01−08 to 2023−01−09
Phase duration = 360
Amplitude = 11
Slope = 4e−04

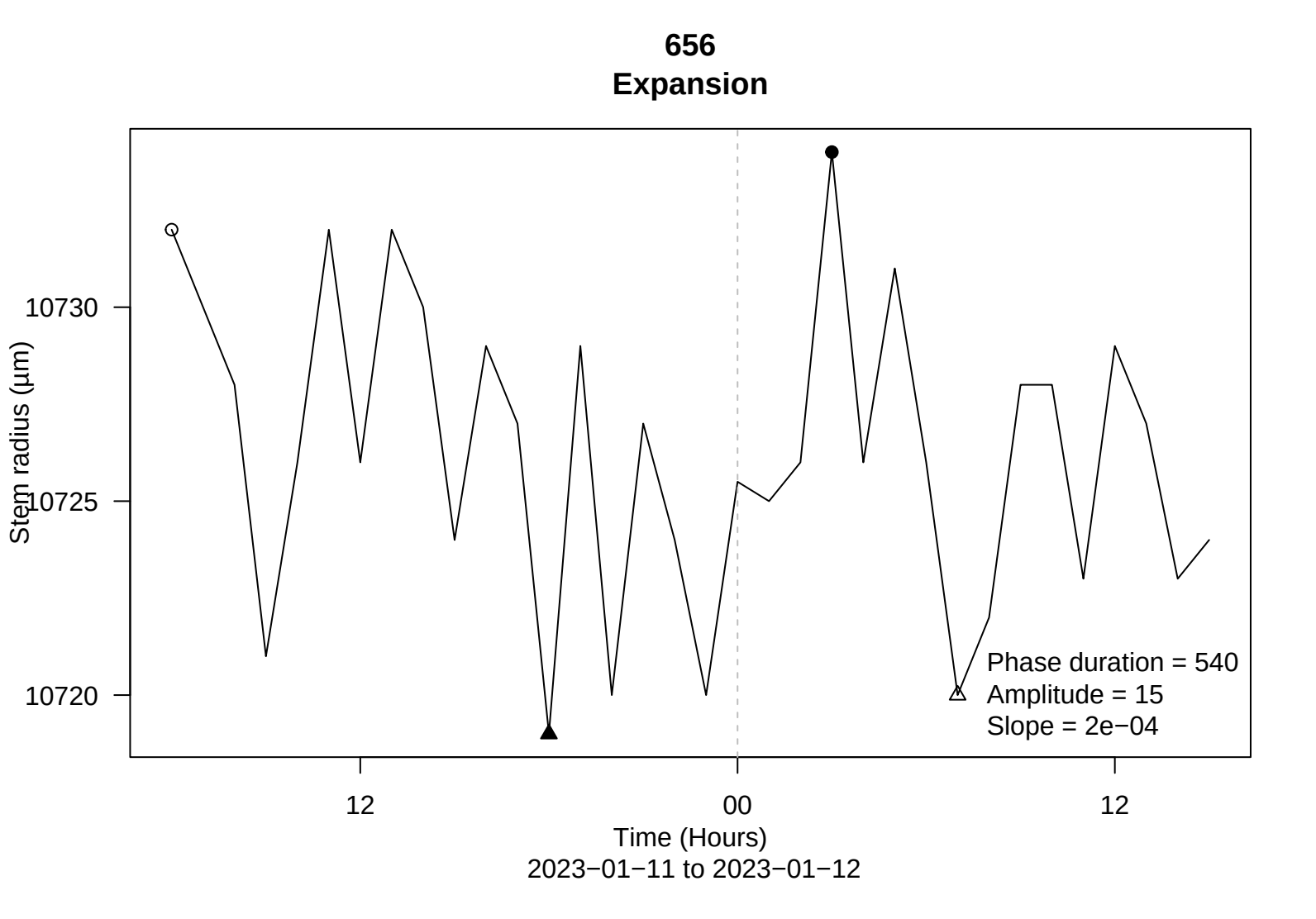

656
Shrinkage
10740
10735
10730
10725
Stem radius (µm)
Phase duration = 1260
Amplitude = −19
Slope = −2e−04
12
00
12
00
Time (Hours)
2023−01−09 to 2023−01−09

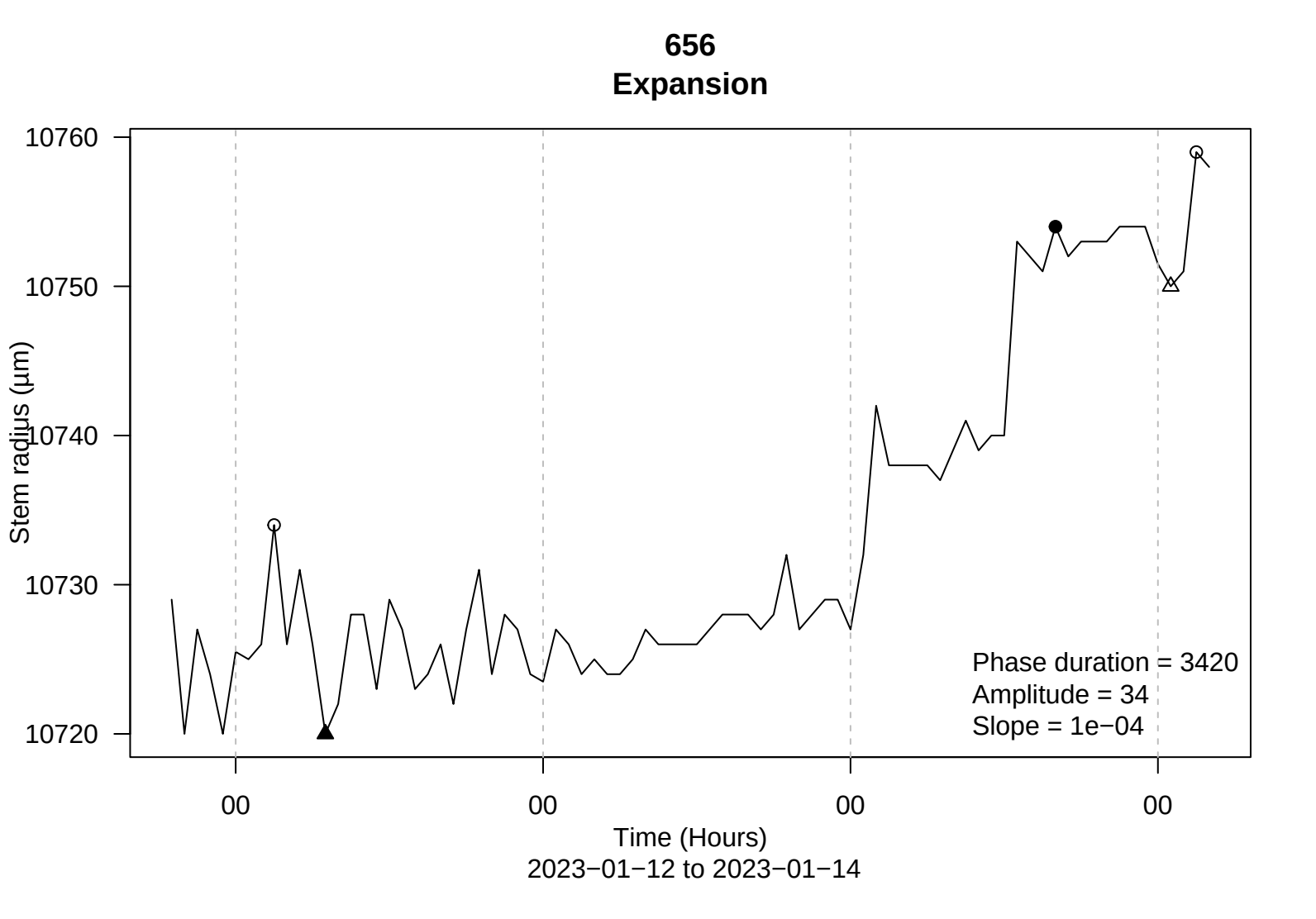

656
Expansion
10735
10730
10725
10720
Stem radius (µm)
12
00
12
Time (Hours)
2023−01−09 to 2023−01−10
Phase duration = 660
Amplitude = 14
Slope = 1e−04

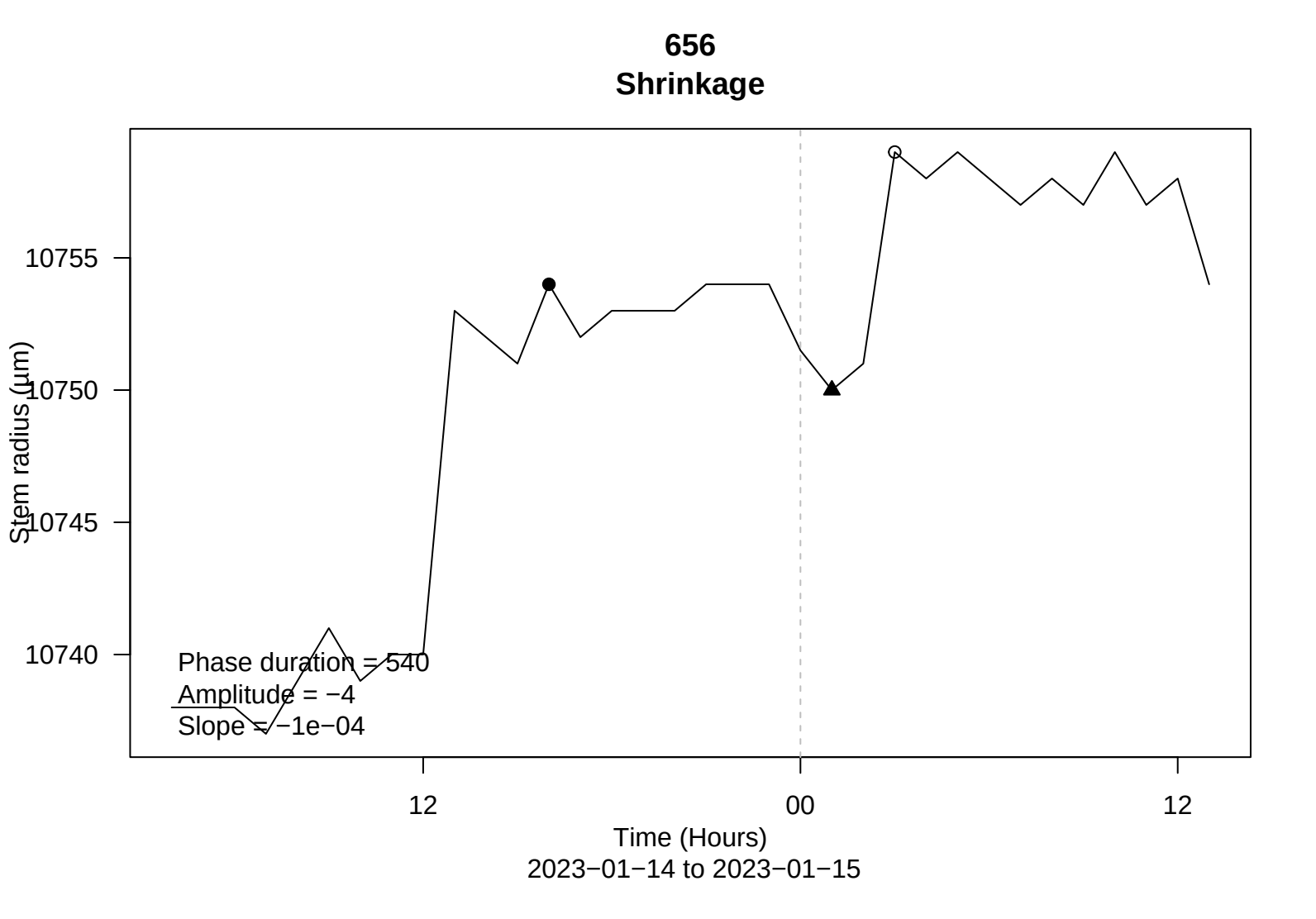

656
Shrinkage
10735
10730
10725
10720
Stem radius (µm)
Phase duration = 900
Amplitude = −16.5
Slope = −2e−04
00
12
00
12
Time (Hours)
2023−01−10 to 2023−01−11

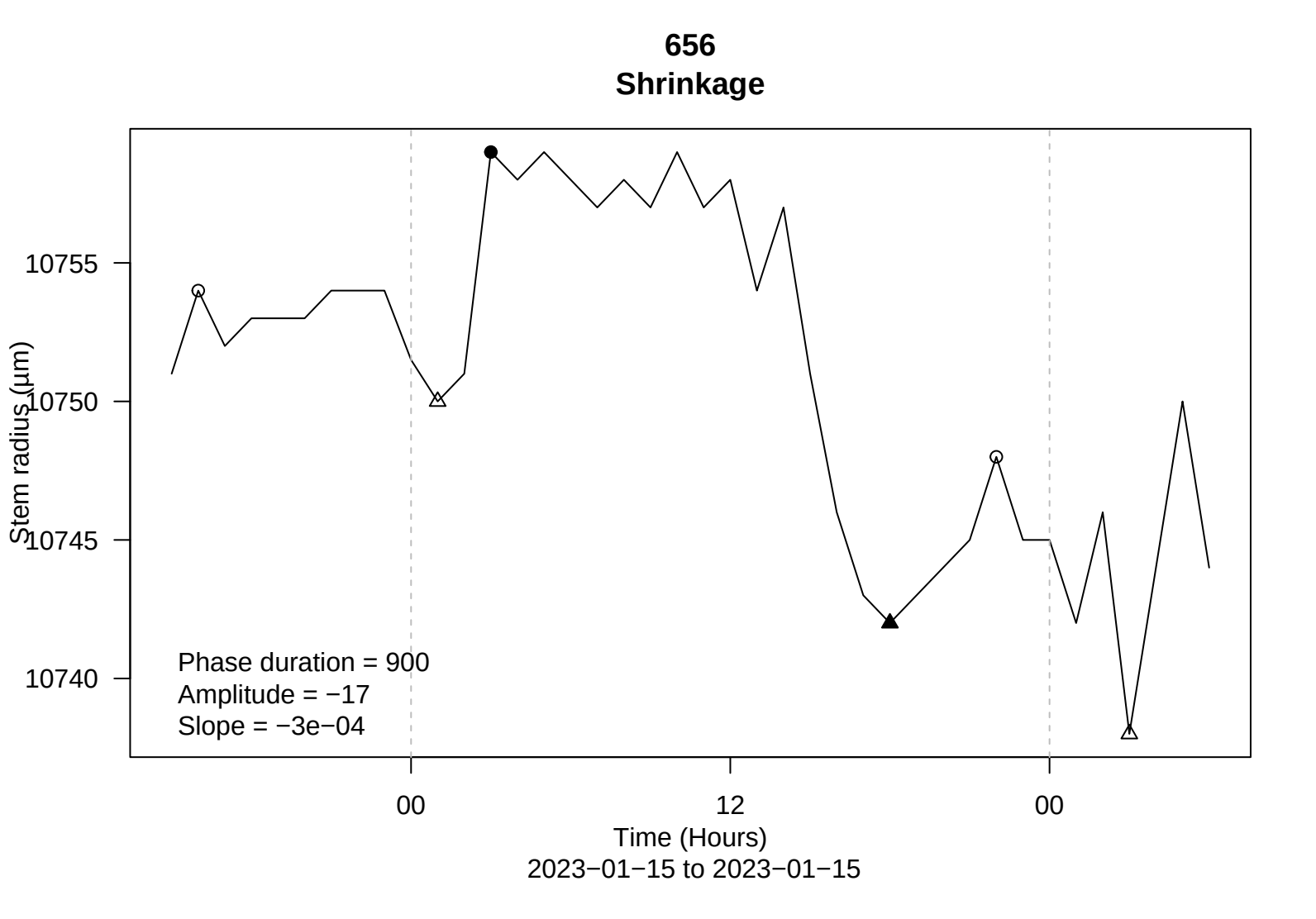

656
Expansion
10732
10730
10728
10726
10724
10722
10720
10718
Stem radius (µm)
12
00
12
Time (Hours)
2023−01−11 to 2023−01−11
Phase duration = 360
Amplitude = 13.5
Slope = 4e−04

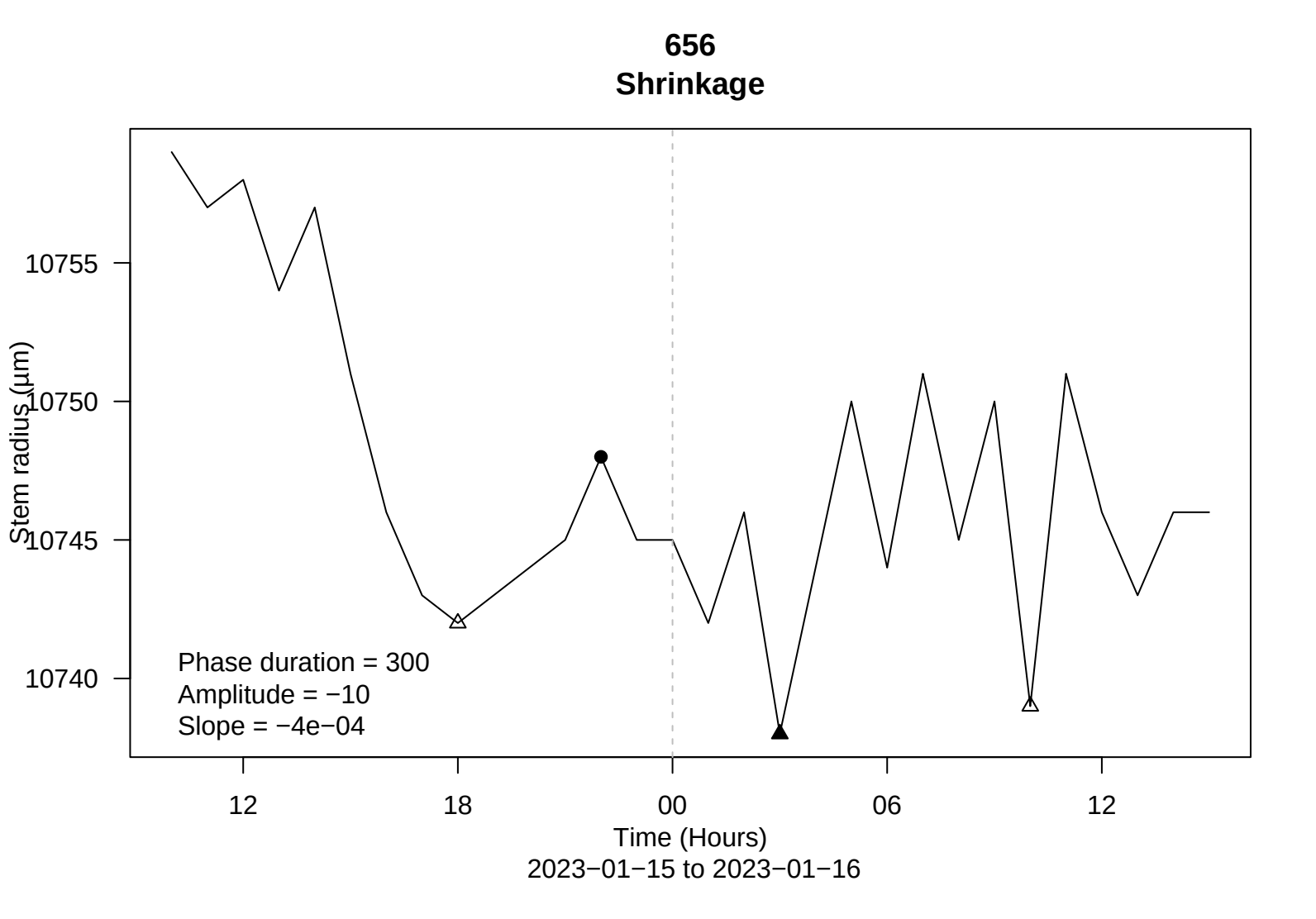

656
Shrinkage
10730
10725
10720
Stem radius (µm)
Phase duration = 720
Amplitude = −13
Slope = −1e−04
00
12
00
Time (Hours)
2023−01−11 to 2023−01−11

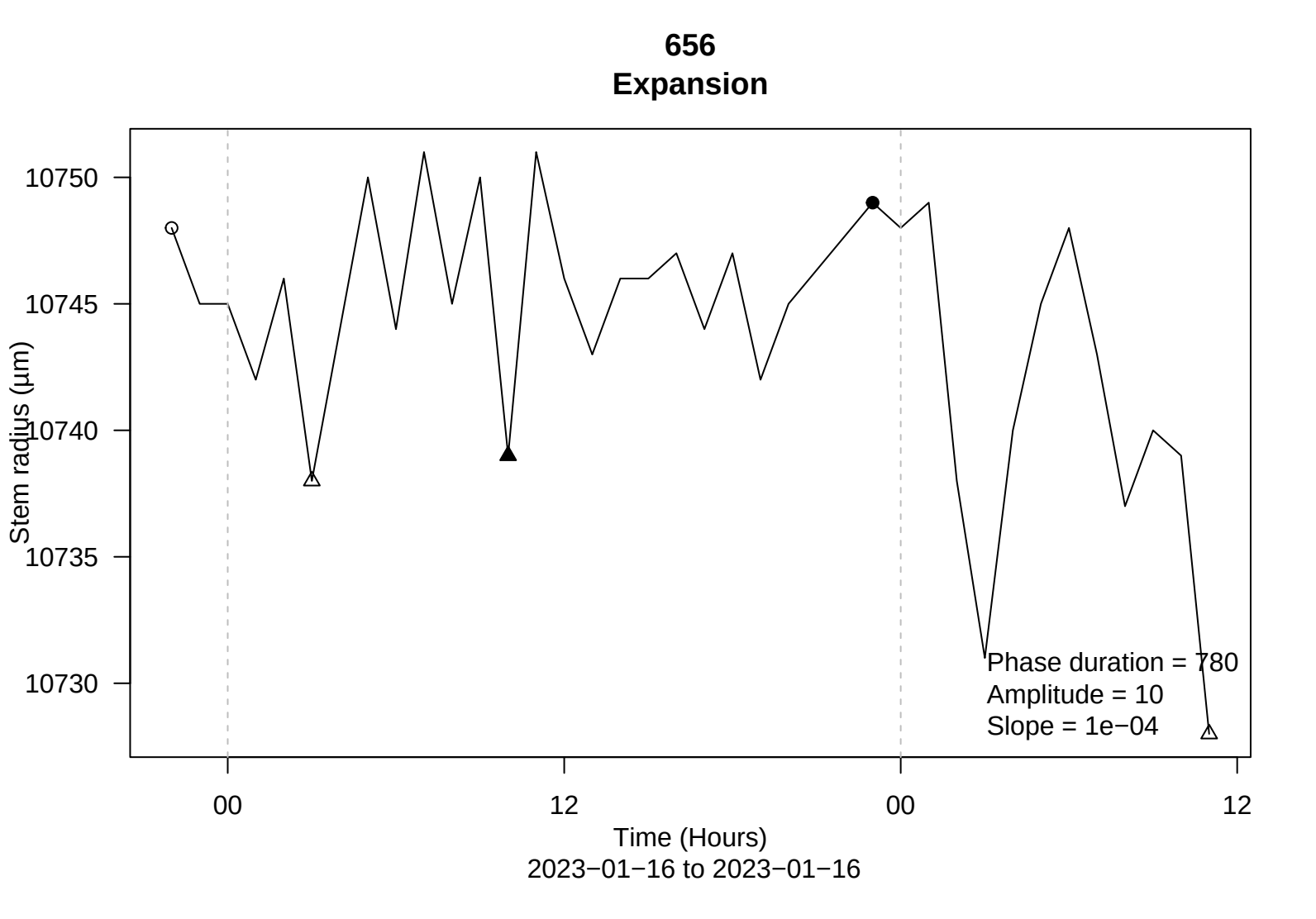

656
Expansion
10730
10725
10720
Stem radius (µm)
Phase duration = 540
Amplitude = 15
Slope = 2e−04
12
00
12
Time (Hours)
2023−01−11 to 2023−01−12

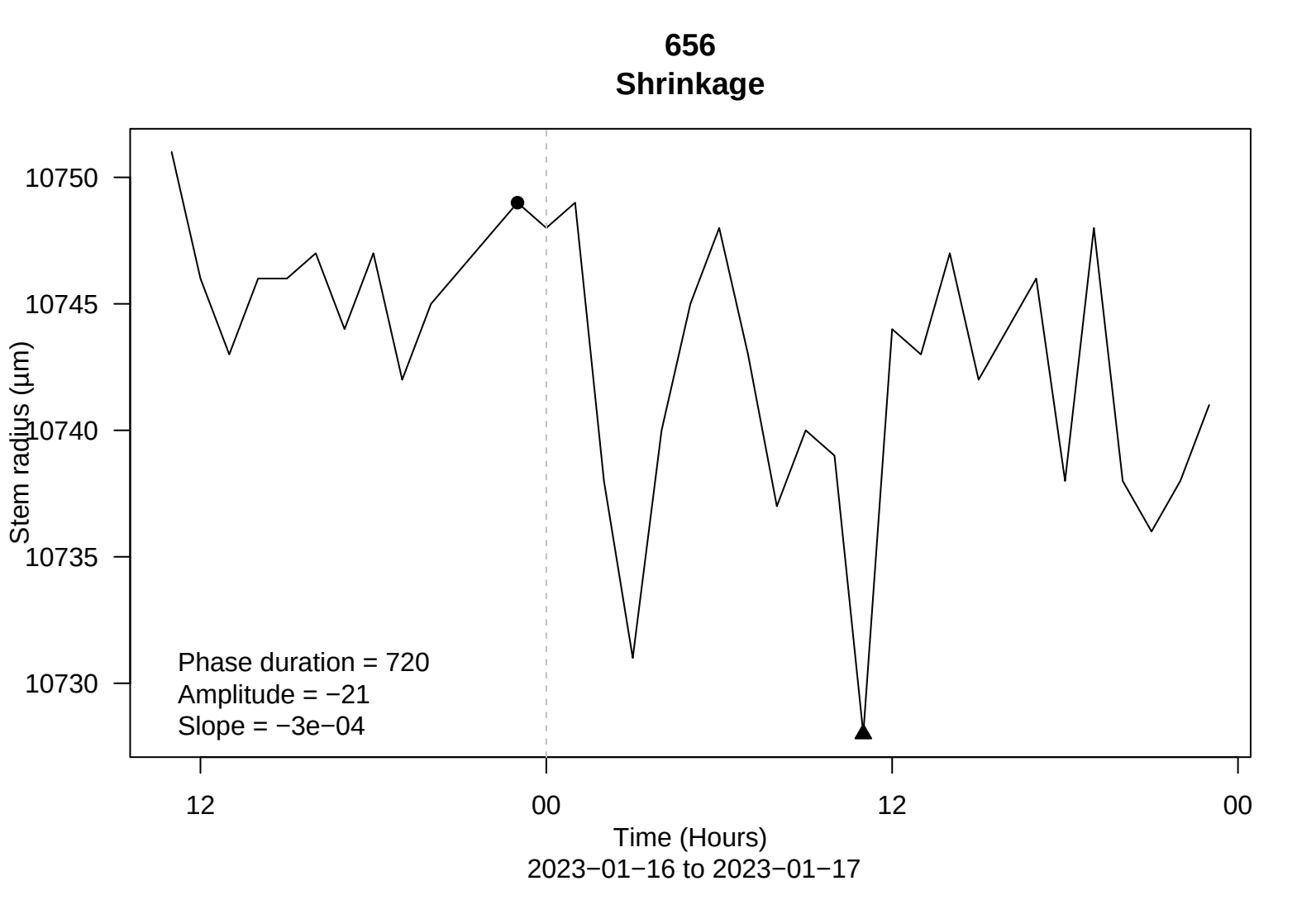

656
Expansion
10760
10750
10740
10730
10720
Stem radius (µm)
00
00
00
00
Time (Hours)
2023−01−12 to 2023−01−14
Phase duration = 3420
Amplitude = 34
Slope = 1e−04

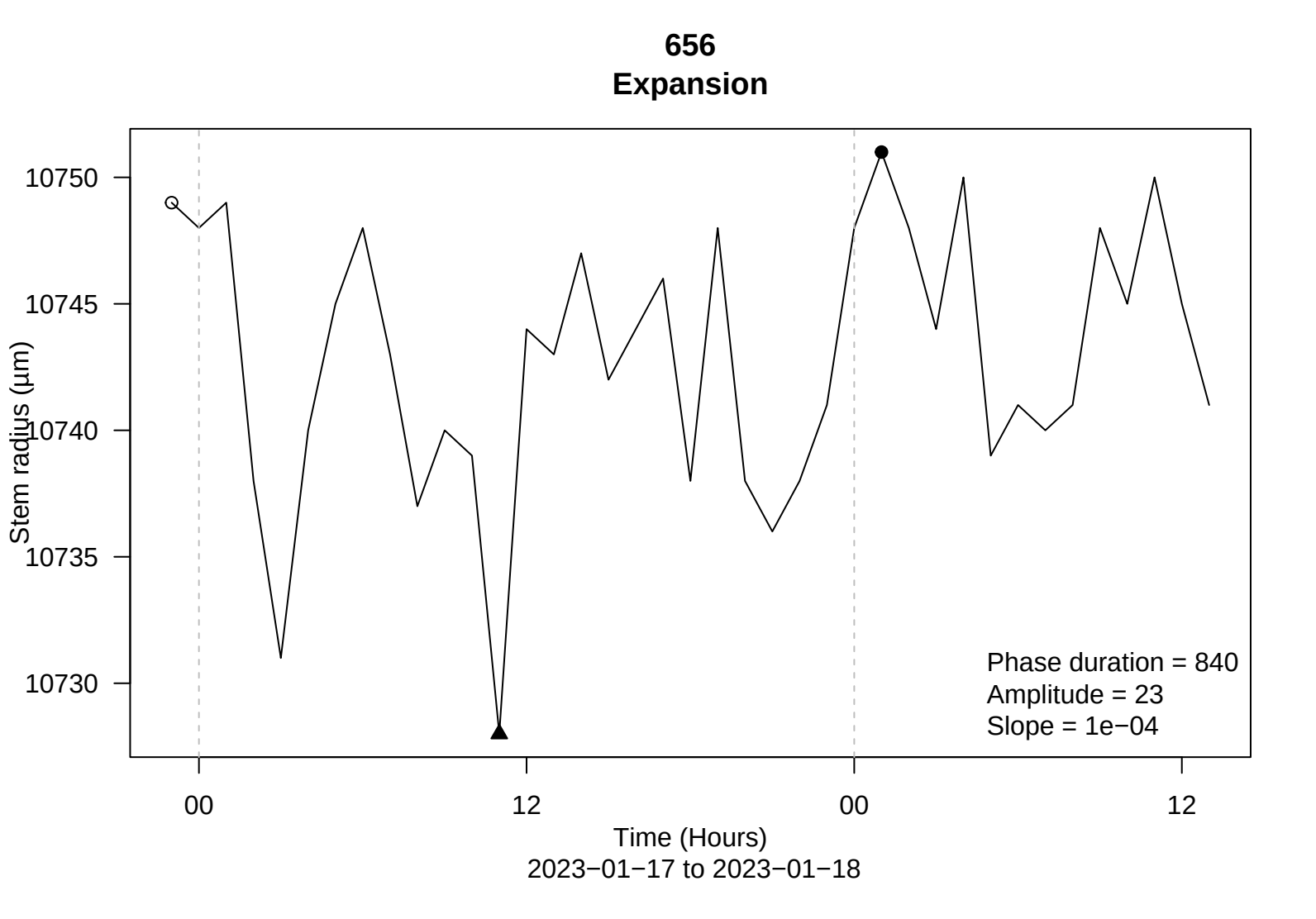

656
Shrinkage
10755
10750
10745
10740
Stem radius (µm)
Phase duration = 540
Amplitude = −4
Slope = −1e−04
12
00
12
Time (Hours)
2023−01−14 to 2023−01−15

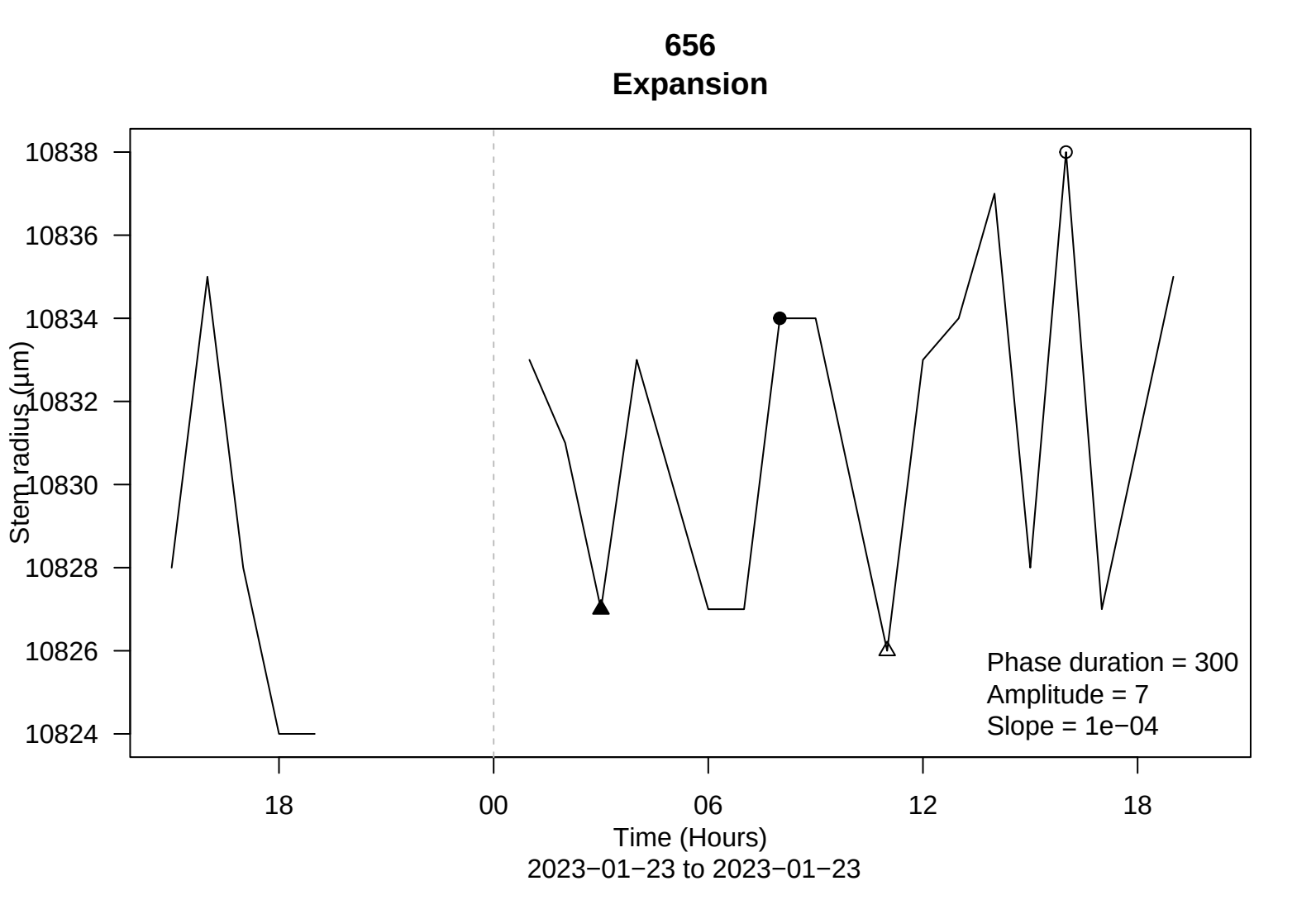

656
Shrinkage
10755
10750
10745
10740
Stem radius (µm)
Phase duration = 900
Amplitude = −17
Slope = −3e−04
00
12
00
Time (Hours)
2023−01−15 to 2023−01−15

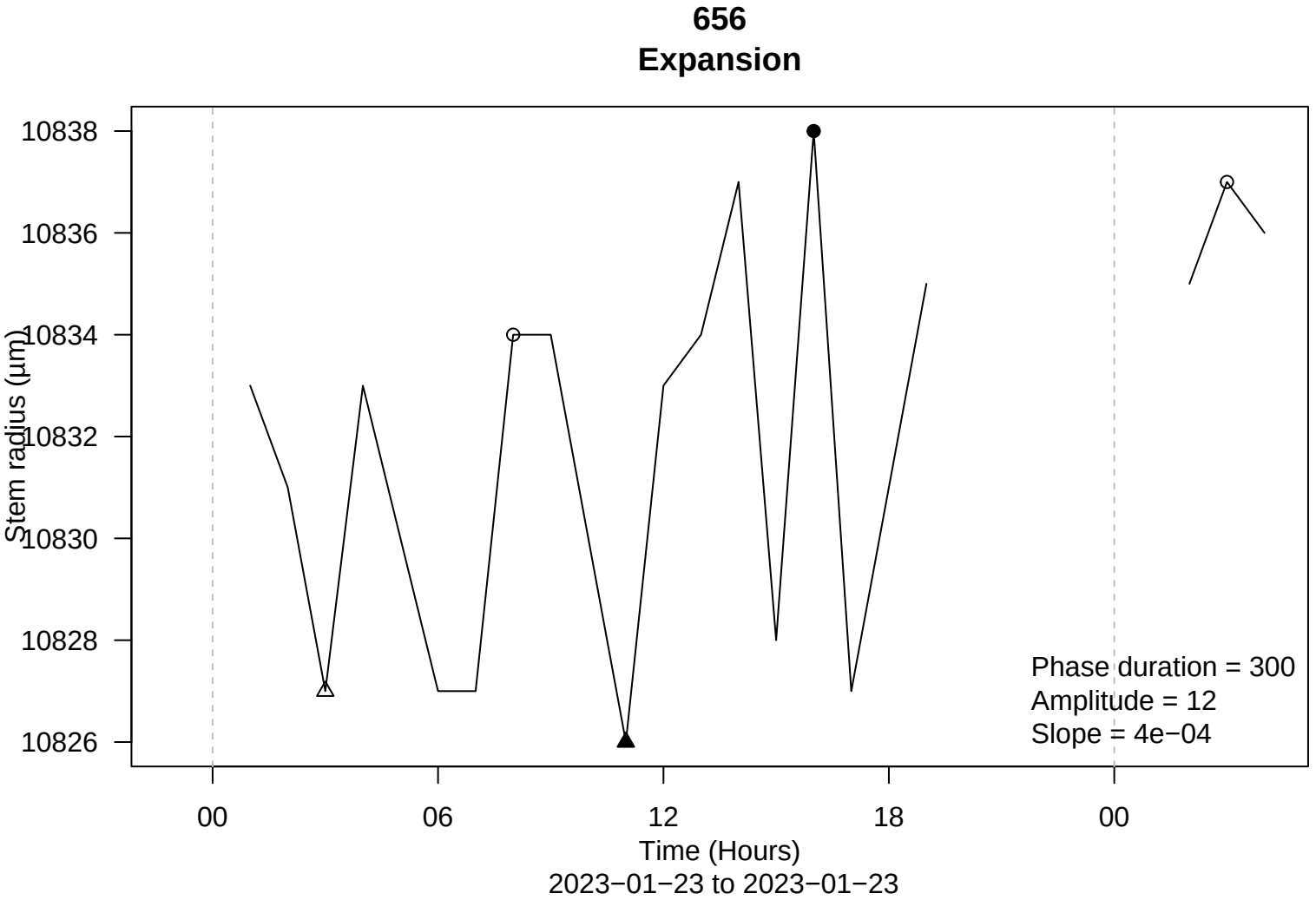

656
Shrinkage
10755
10750
10745
10740
Stem radius (µm)
Phase duration = 300
Amplitude = −10
Slope = −4e−04
12
18
00
06
12
Time (Hours)
2023−01−15 to 2023−01−16

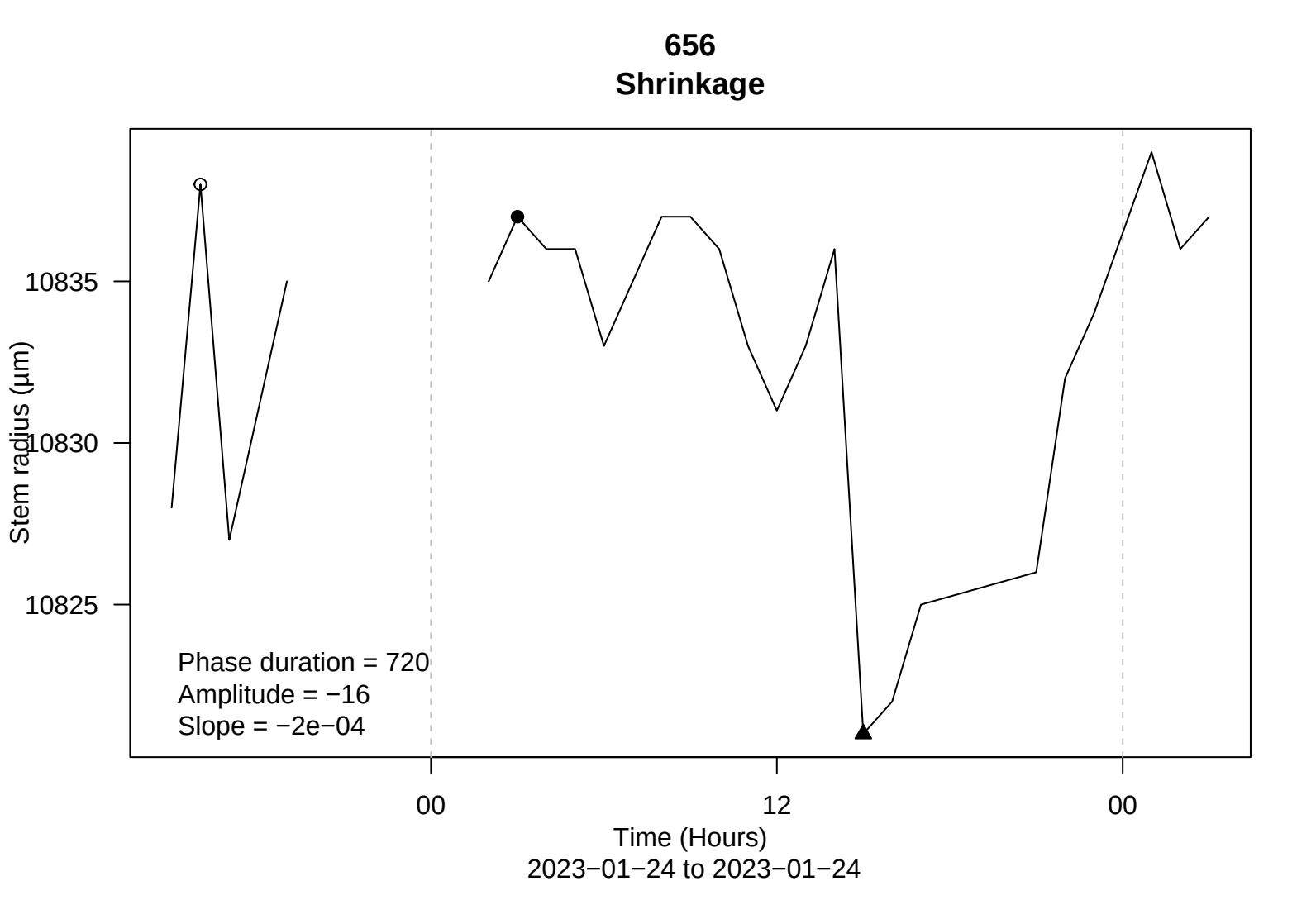

656
Expansion
10750
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 780
Amplitude = 10
Slope = 1e−04
00
12
00
12
Time (Hours)
2023−01−16 to 2023−01−16

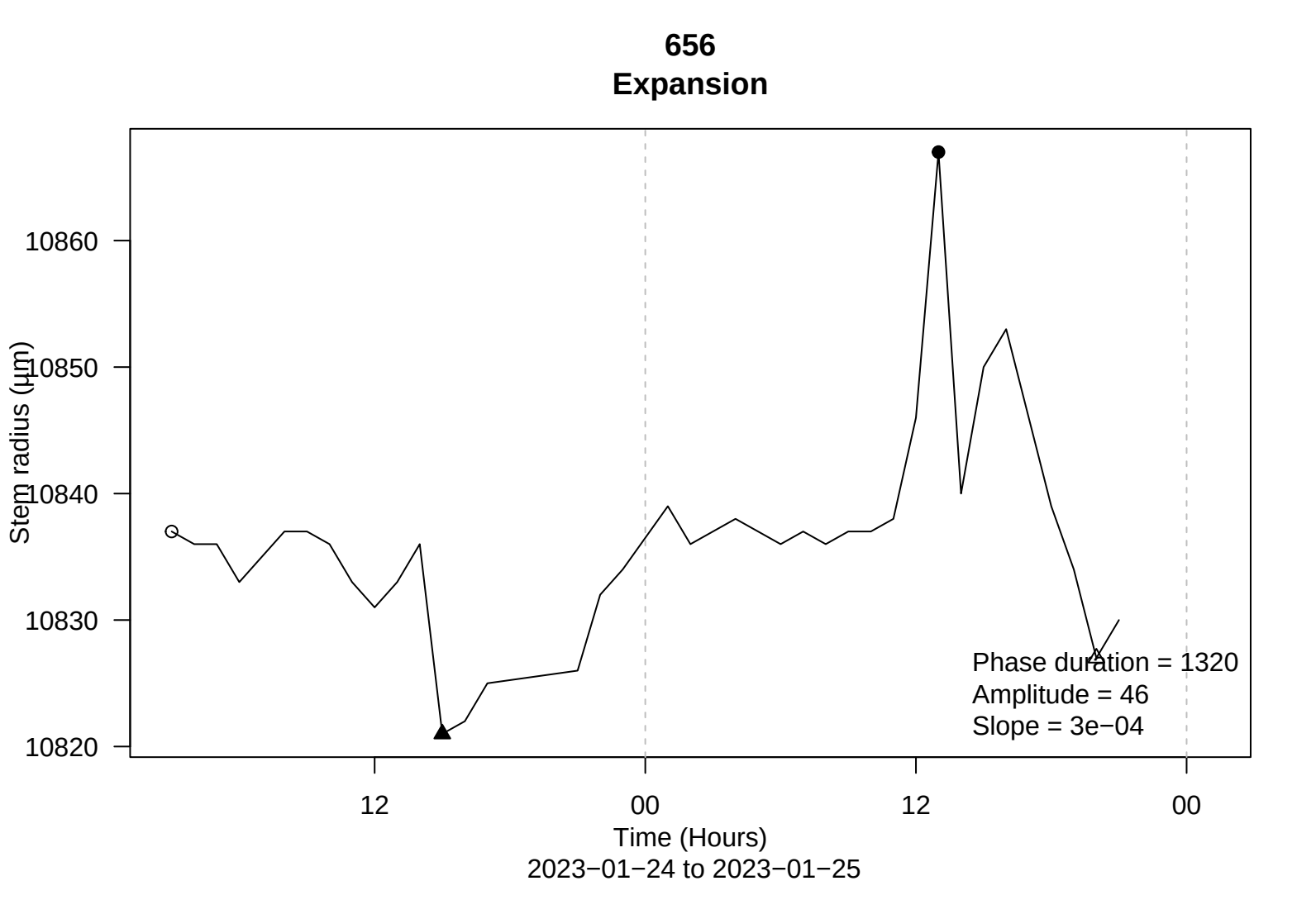

656
Shrinkage
10750
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 720
Amplitude = −21
Slope = −3e−04
12
00
12
00
Time (Hours)
2023−01−16 to 2023−01−17

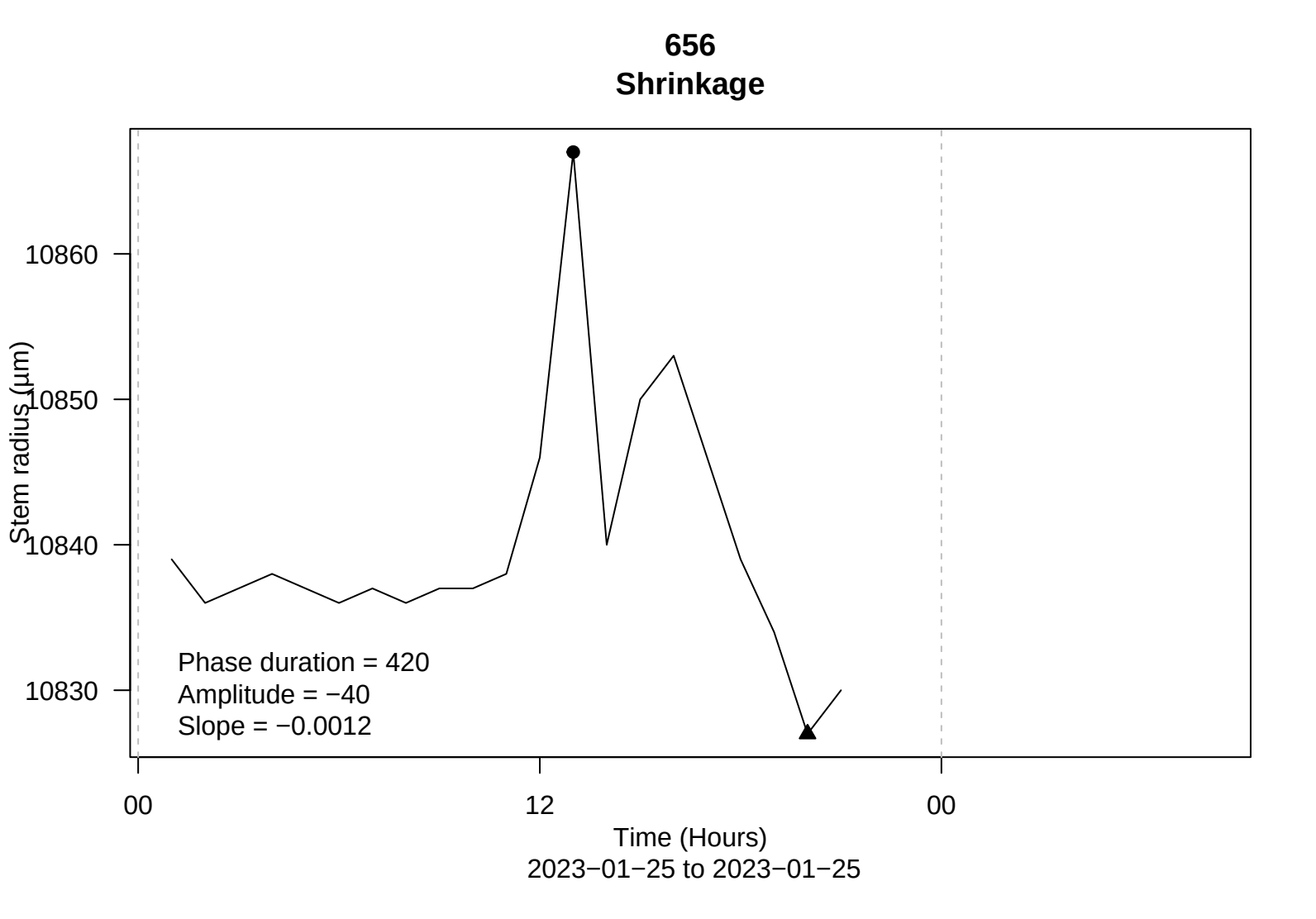

656
Expansion
10750
10745
10740
10735
10730
Stem radius (µm)
Phase duration = 840
Amplitude = 23
Slope = 1e−04
00
12
00
12
Time (Hours)
2023−01−17 to 2023−01−18

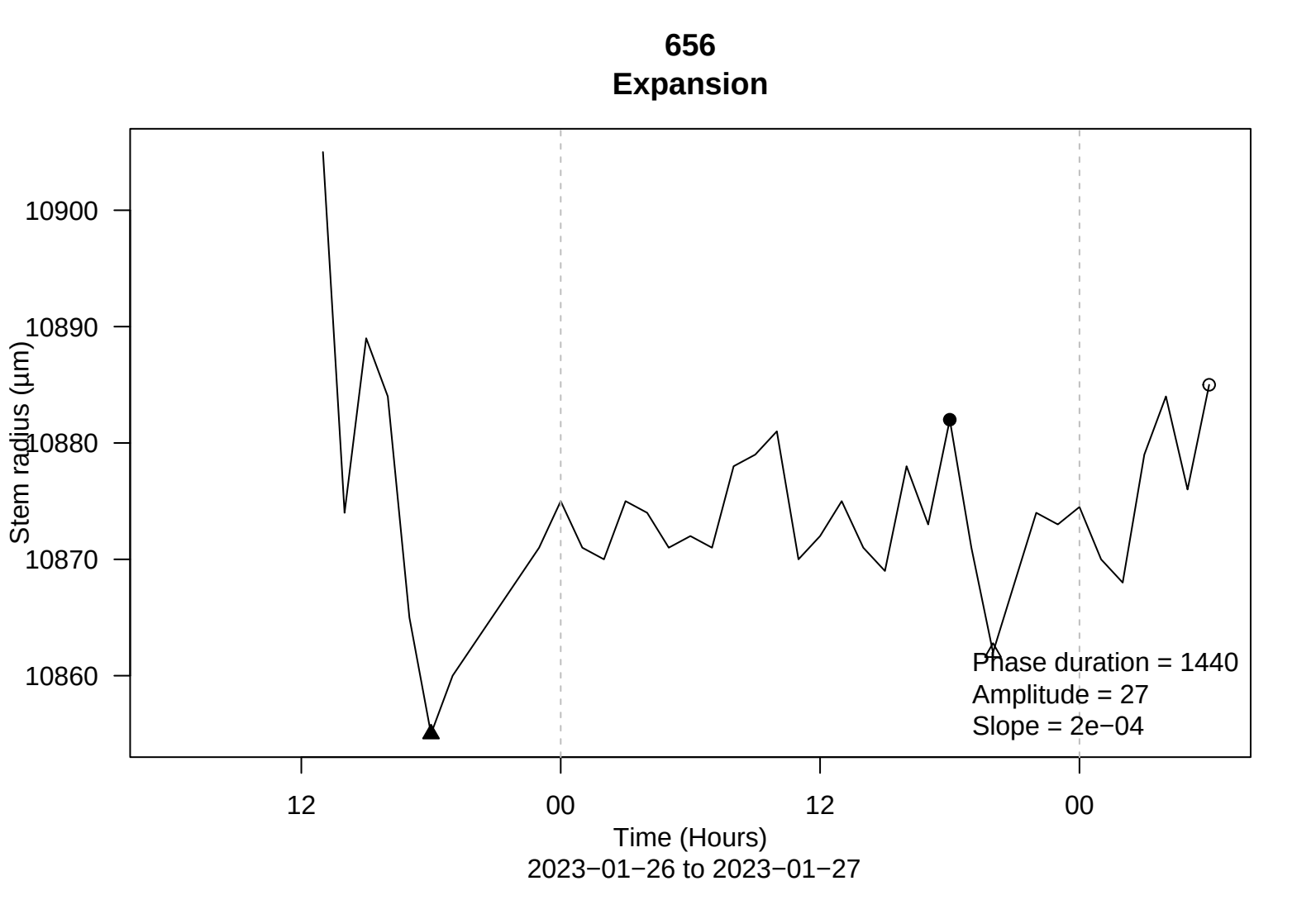

656
Expansion
10838
10836
10834
10832
10830
10828
10826
10824
Stem radius (µm)
18
00
06
12
18
Time (Hours)
2023−01−23 to 2023−01−23
Phase duration = 300
Amplitude = 7
Slope = 1e−04

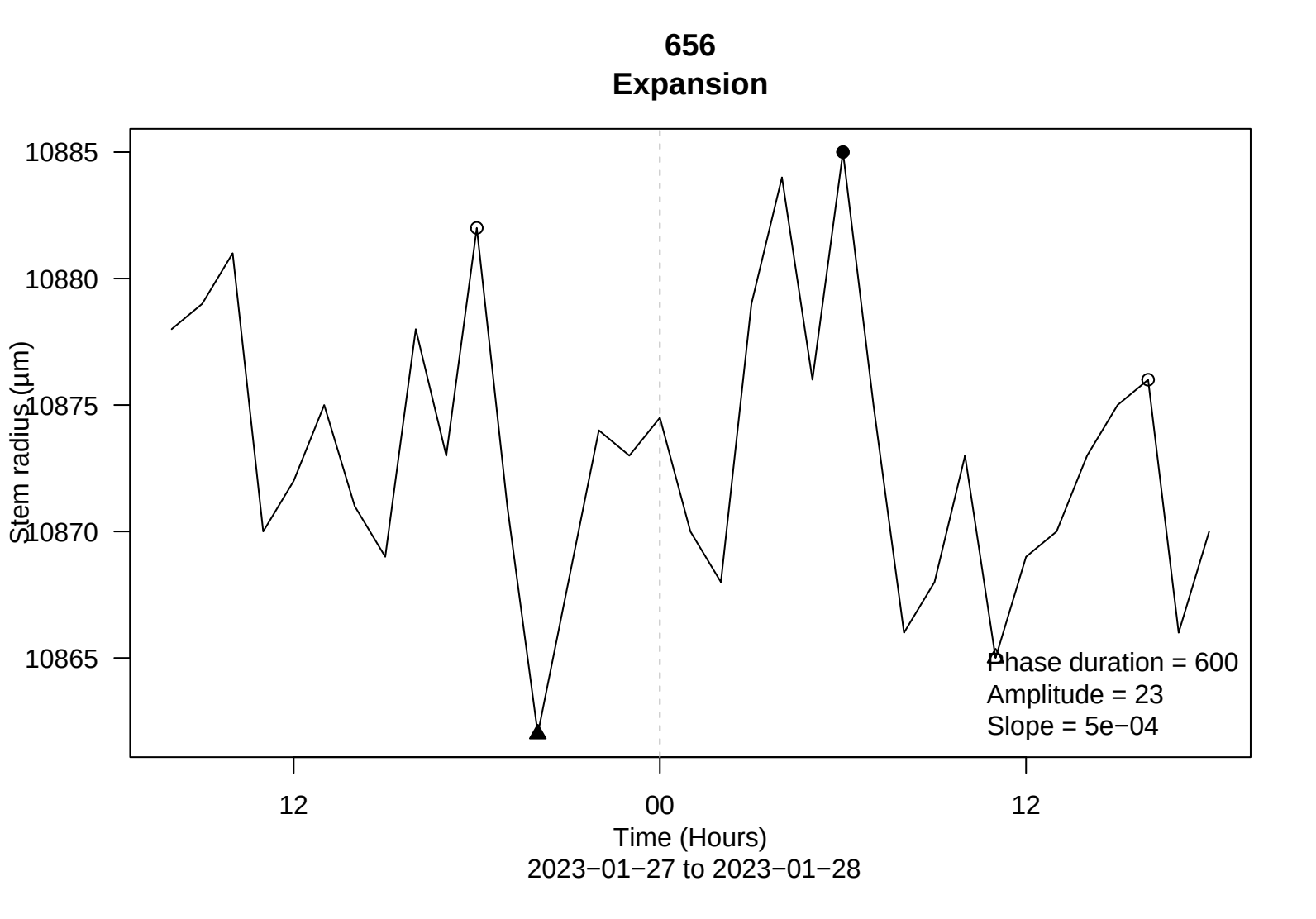

656
Expansion
10838
10836
10834
10832
10830
10828
10826
Stem radius (µm)
00
06
12
18
00
Time (Hours)
2023−01−23 to 2023−01−23
Phase duration = 300
Amplitude = 12
Slope = 4e−04

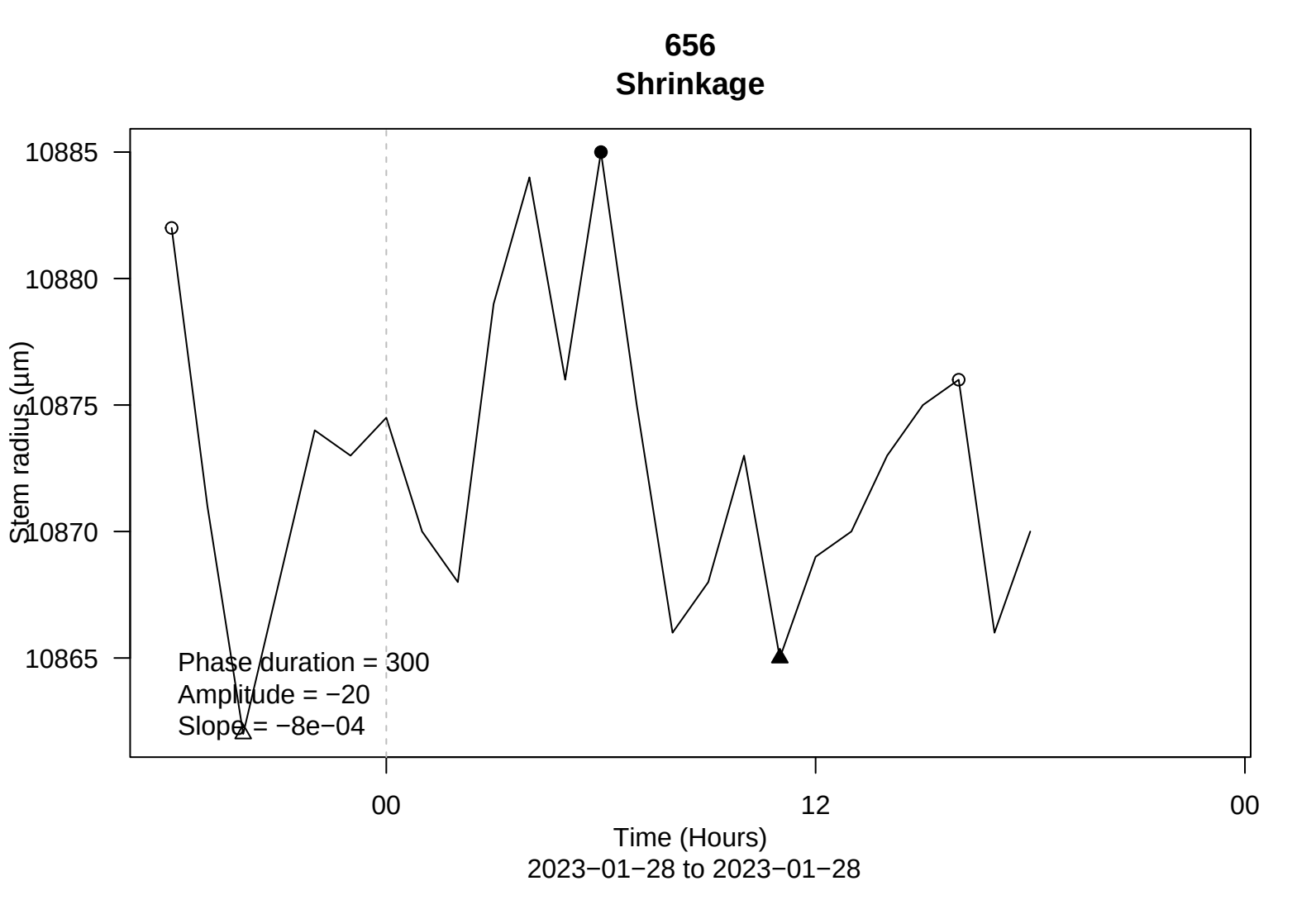

656
Shrinkage
10835
10830
10825
Stem radius (µm)
Phase duration = 720
Amplitude = −16
Slope = −2e−04
00
12
00
Time (Hours)
2023−01−24 to 2023−01−24

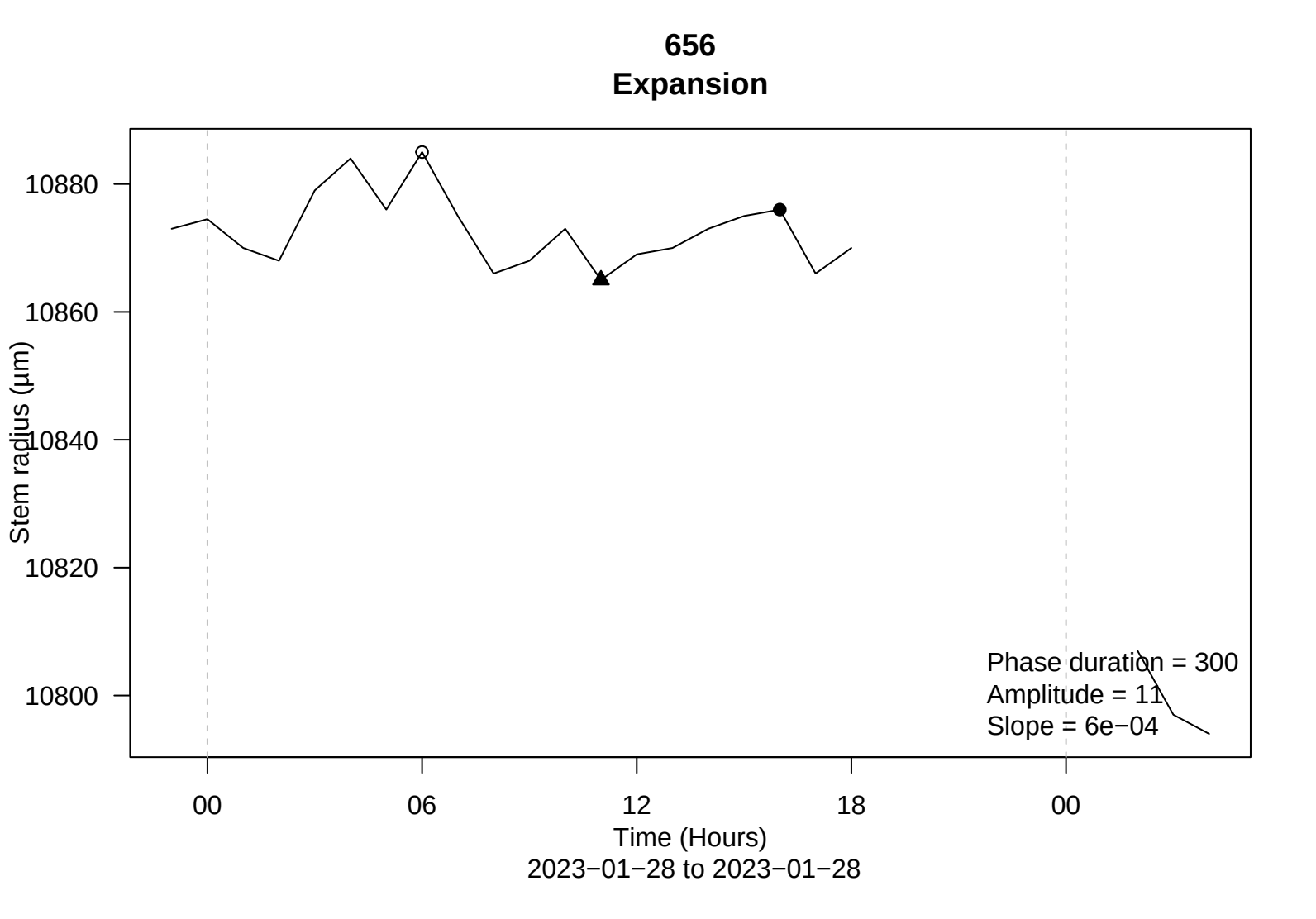

656
Expansion
10860
10850
10840
10830
10820
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−01−24 to 2023−01−25
Phase duration = 1320
Amplitude = 46
Slope = 3e−04

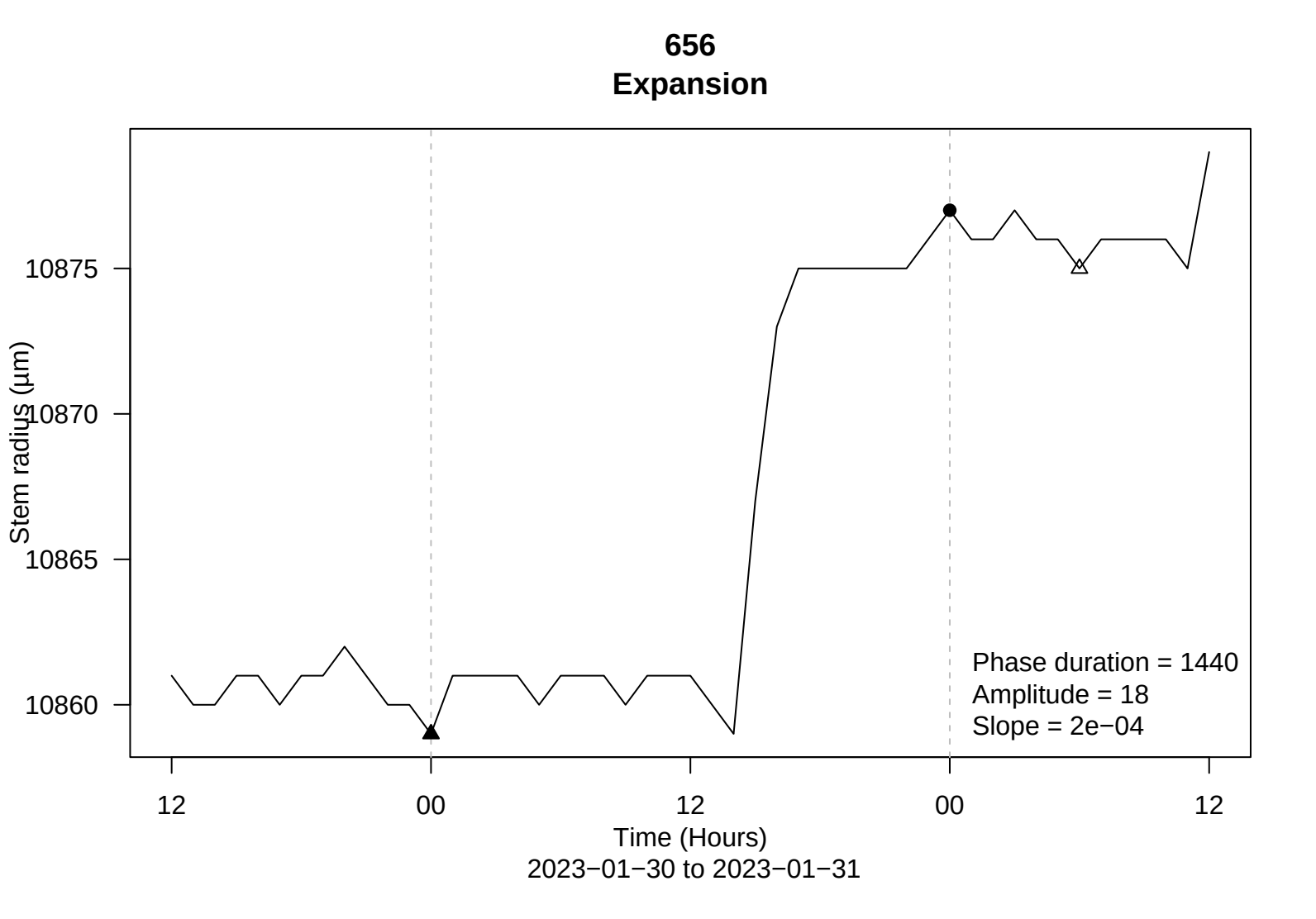

656
Shrinkage
10860
10850
10840
10830
Stem radius (µm)
Phase duration = 420
Amplitude = −40
Slope = −0.0012
00
12
00
Time (Hours)
2023−01−25 to 2023−01−25

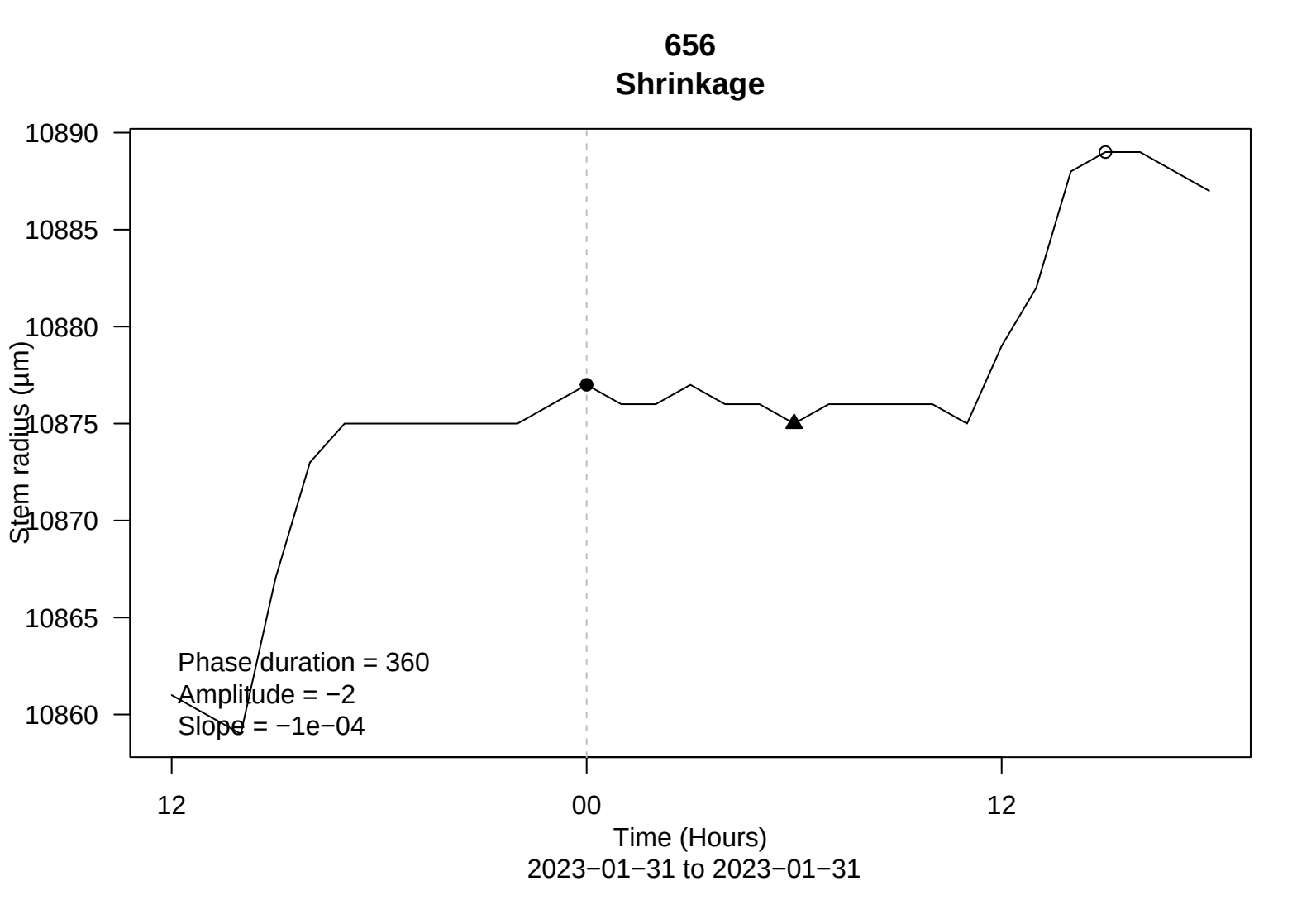

656
Expansion
10900
10890
10880
10870
10860
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−01−26 to 2023−01−27
Phase duration = 1440
Amplitude = 27
Slope = 2e−04

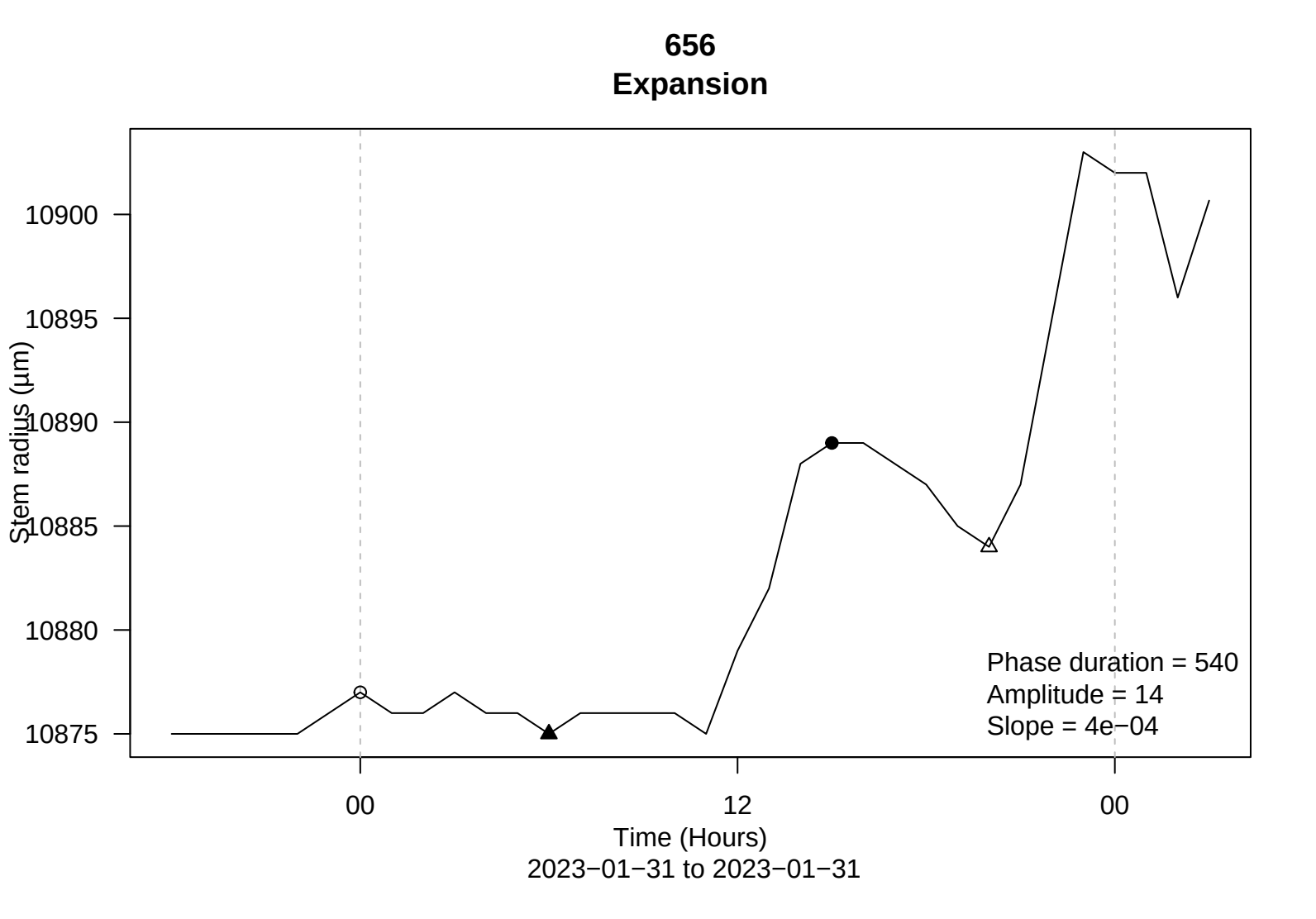

656
Expansion
10885
10880
10875
10870
10865
Stem radius (µm)
Phase duration = 600
Amplitude = 23
Slope = 5e−04
12
00
12
Time (Hours)
2023−01−27 to 2023−01−28

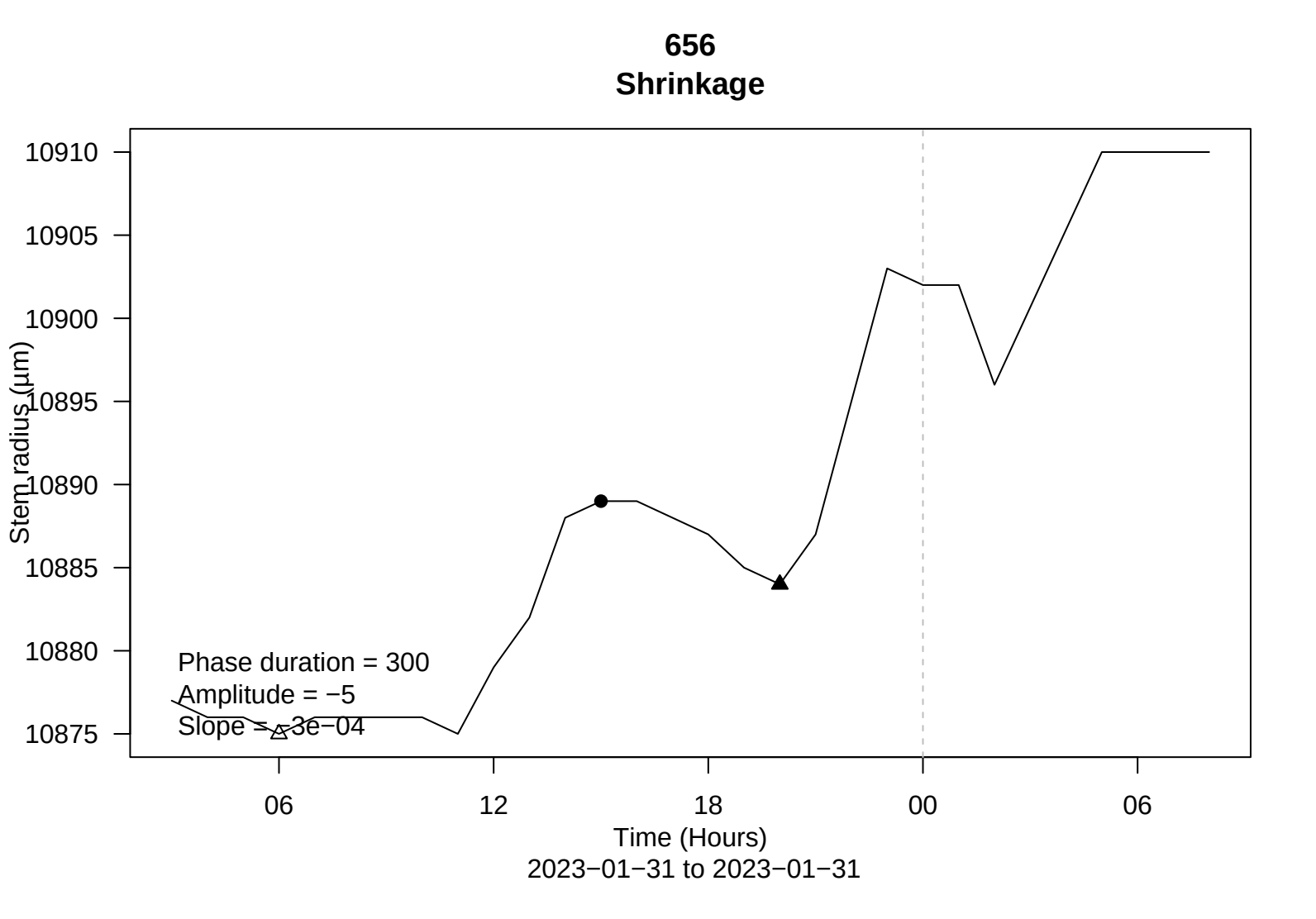

656
Shrinkage
10885
10880
10875
10870
10865
Stem radius (µm)
Phase duration = 300
Amplitude = −20
Slope = −8e−04
00
12
00
Time (Hours)
2023−01−28 to 2023−01−28

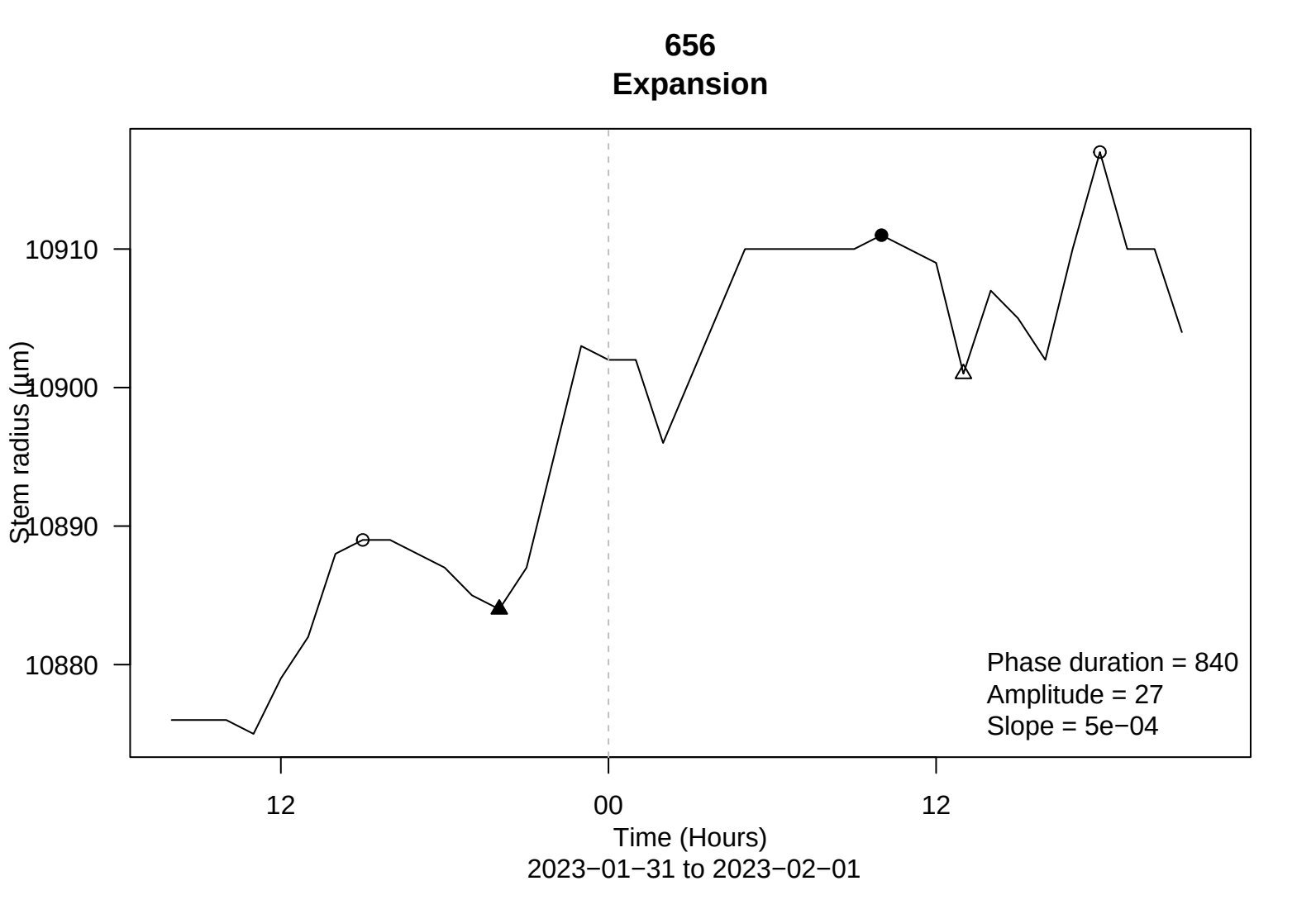

656
Expansion
10880
10860
10840
10820
10800
Stem radius (µm)
Phase duration = 300
Amplitude = 11
Slope = 6e−04
00
06
12
18
00
Time (Hours)
2023−01−28 to 2023−01−28

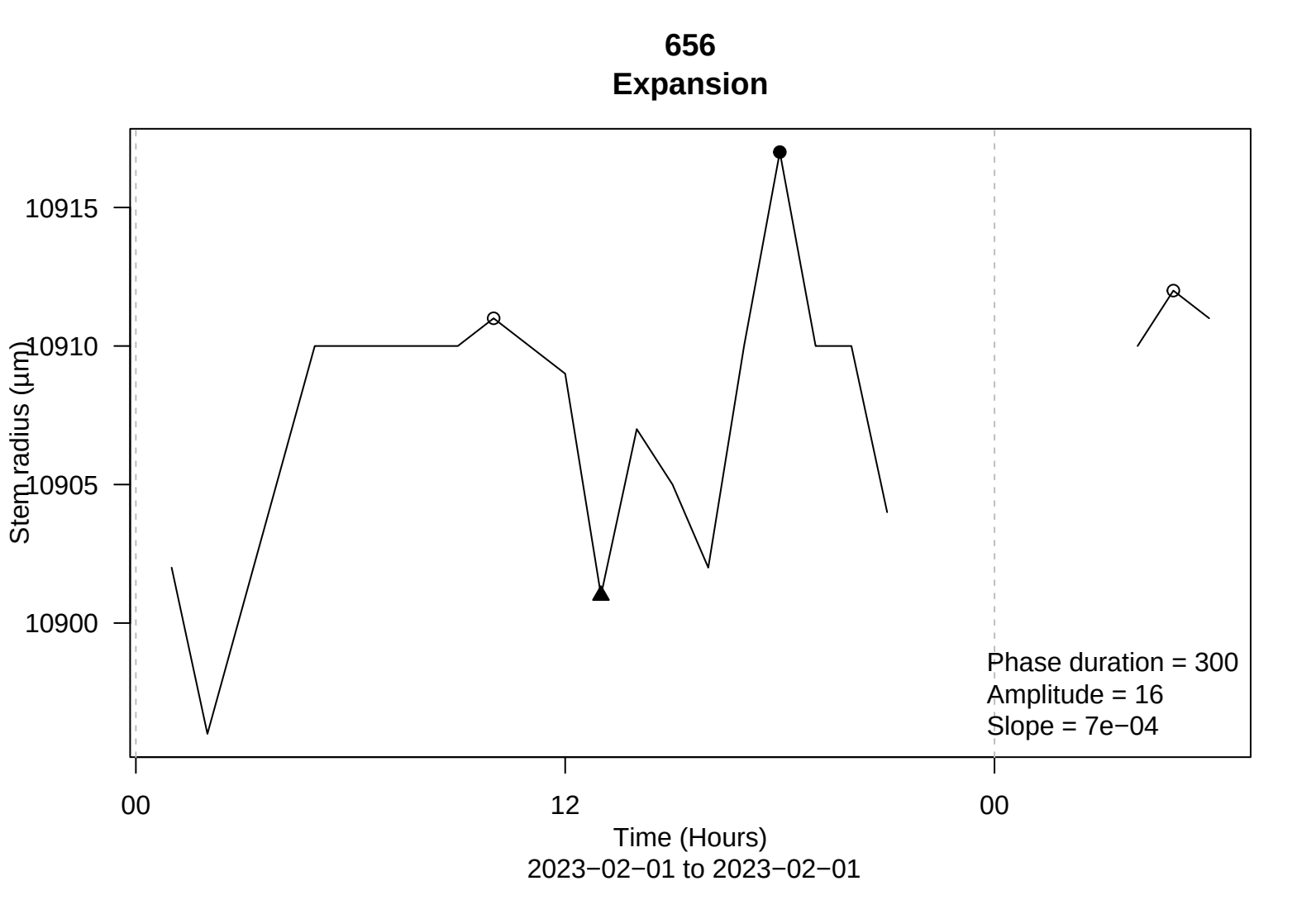

656
Expansion
10875
10870
10865
10860
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2023−01−30 to 2023−01−31
Phase duration = 1440
Amplitude = 18
Slope = 2e−04

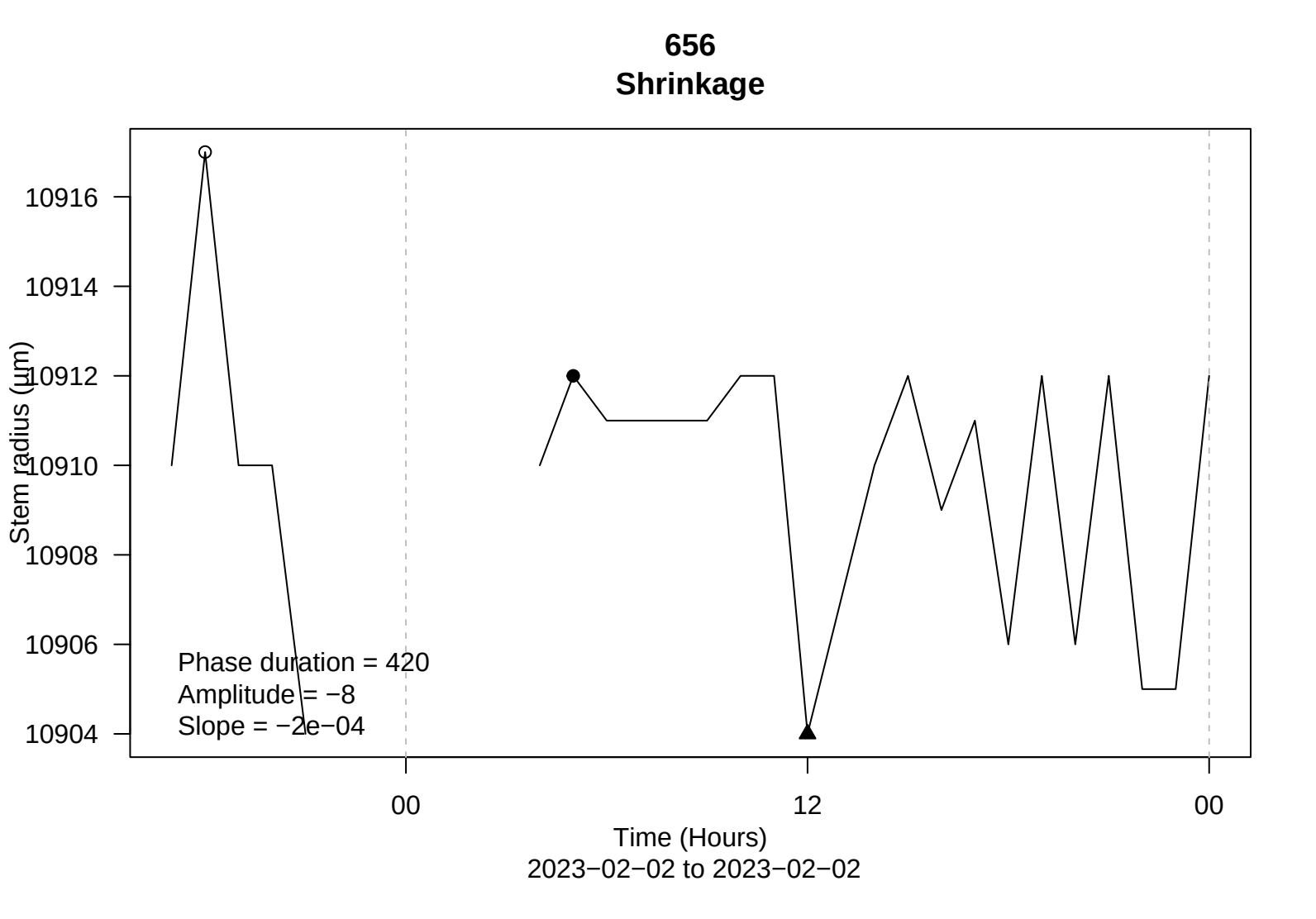

656
Shrinkage
10890
10885
10880
10875
10870
10865
10860
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2023−01−31 to 2023−01−31

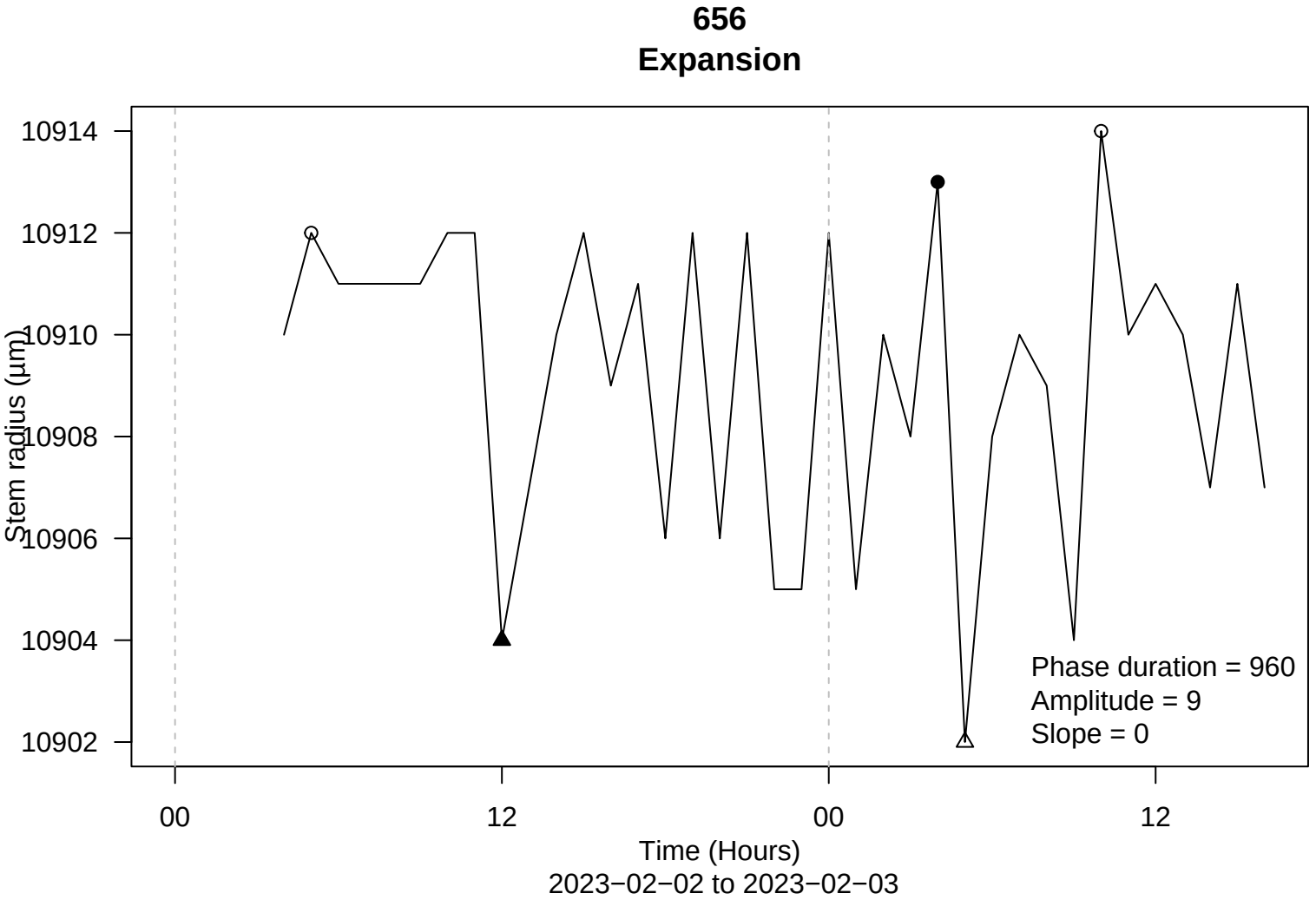

656
Expansion
10900
10895
10890
10885
10880
10875
Stem radius (µm)
Phase duration = 540
Amplitude = 14
Slope = 4e−04
00
12
00
Time (Hours)
2023−01−31 to 2023−01−31

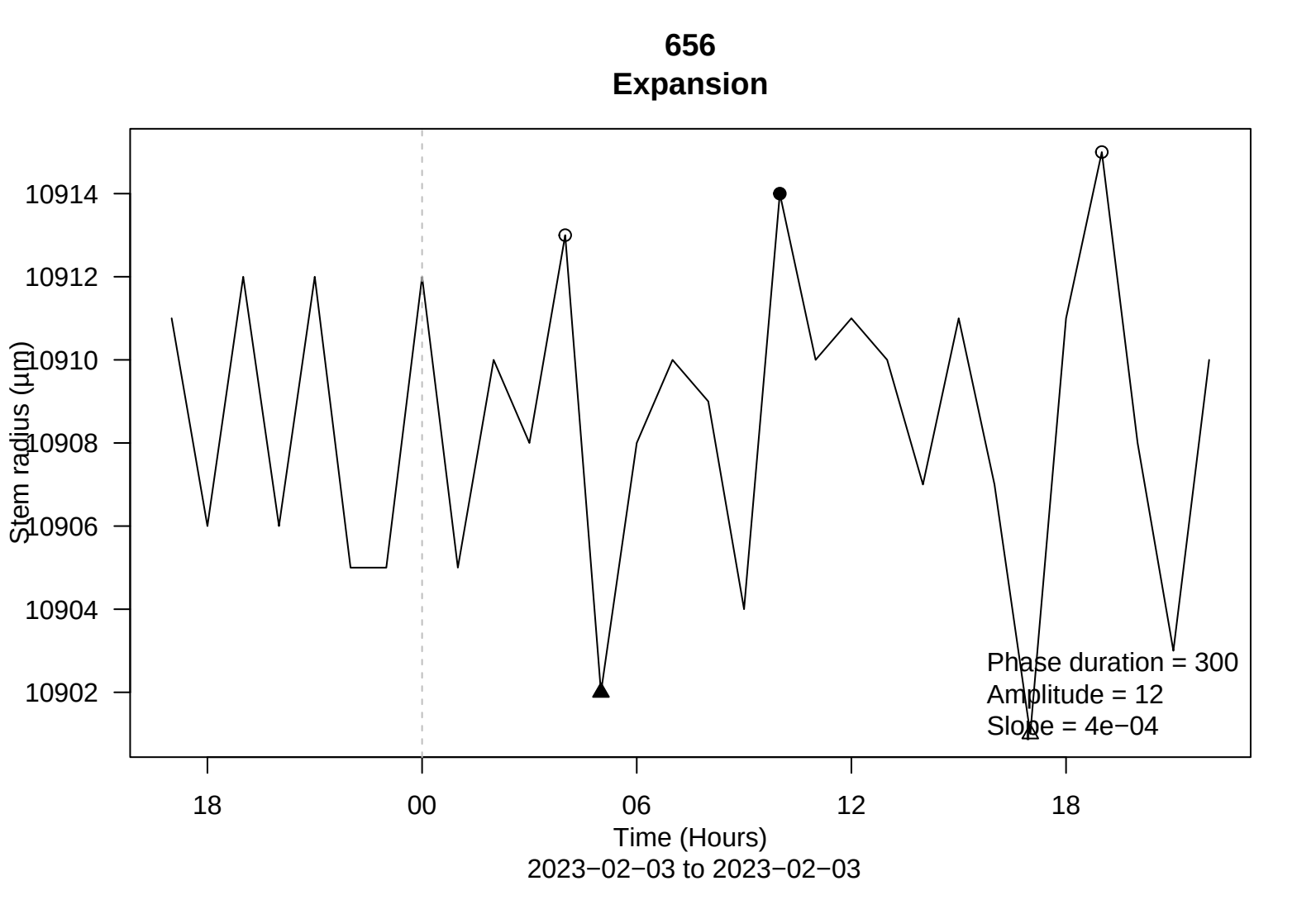

656
Shrinkage
10910
10905
10900
10895
10890
10885
10880
10875
Stem radius (µm)
Phase duration = 300
Amplitude = −5
Slope = −3e−04
06
12
18
00
06
Time (Hours)
2023−01−31 to 2023−01−31

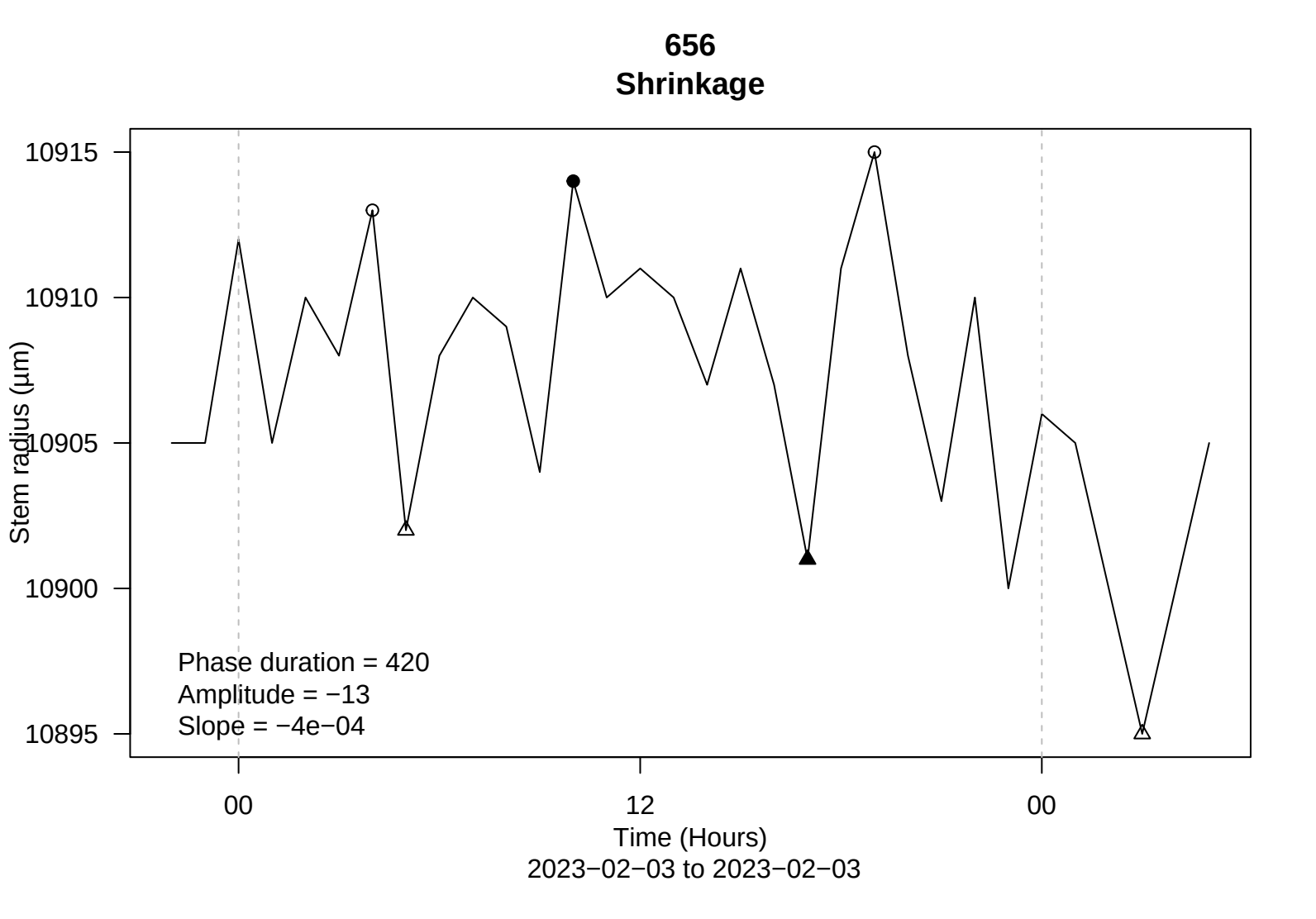

656
Expansion
10910
10900
10890
10880
Stem radius (µm)
Phase duration = 840
Amplitude = 27
Slope = 5e−04
12
00
12
Time (Hours)
2023−01−31 to 2023−02−01

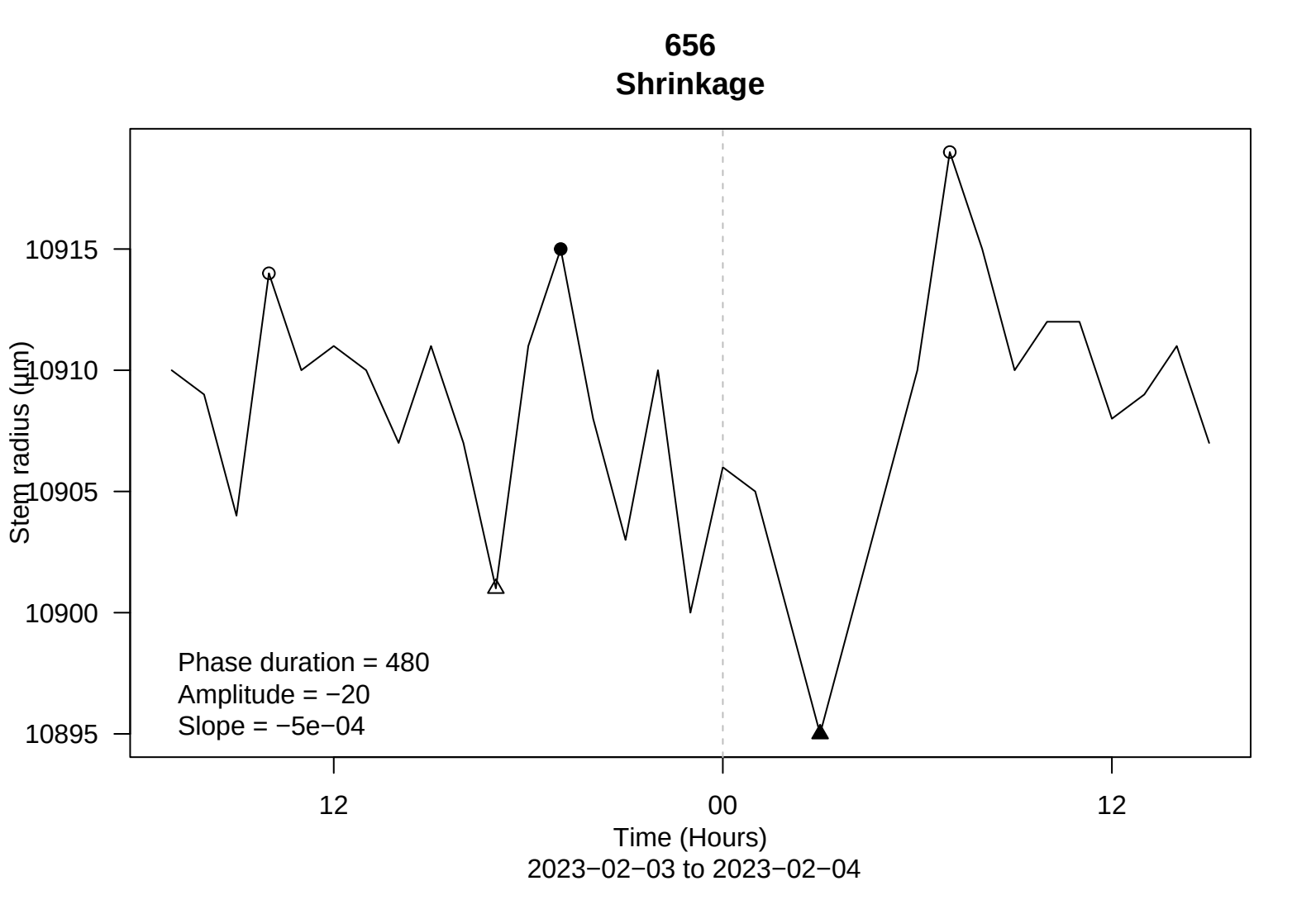

656
Expansion
10915
10910
10905
10900
Stem radius (µm)
Phase duration = 300
Amplitude = 16
Slope = 7e−04
00
12
00
Time (Hours)
2023−02−01 to 2023−02−01

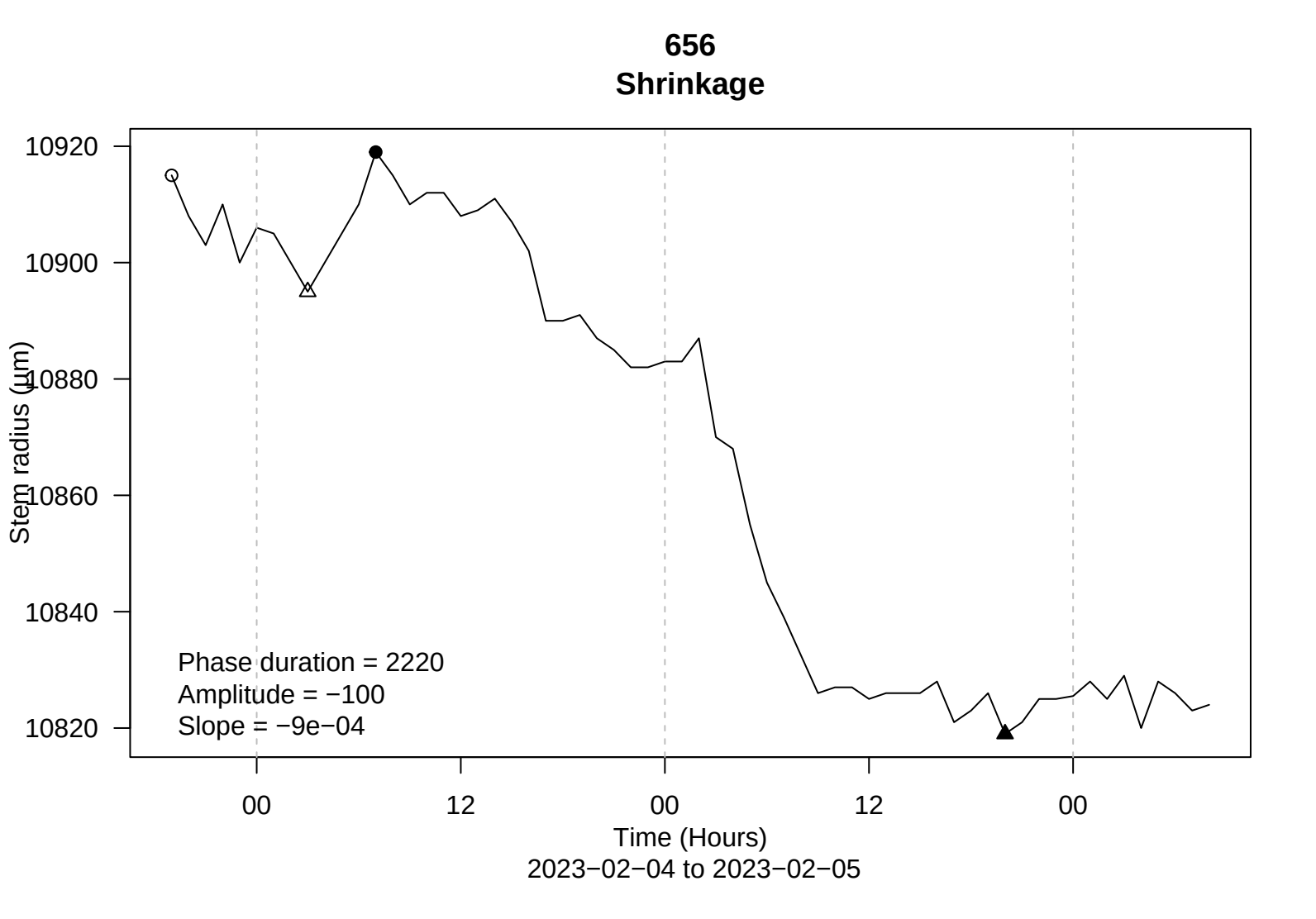

656
Shrinkage
10916
10914
10912
10910
10908
10906
10904
Stem radius (µm)
Phase duration = 420
Amplitude = −8
Slope = −2e−04
00
12
00
Time (Hours)
2023−02−02 to 2023−02−02

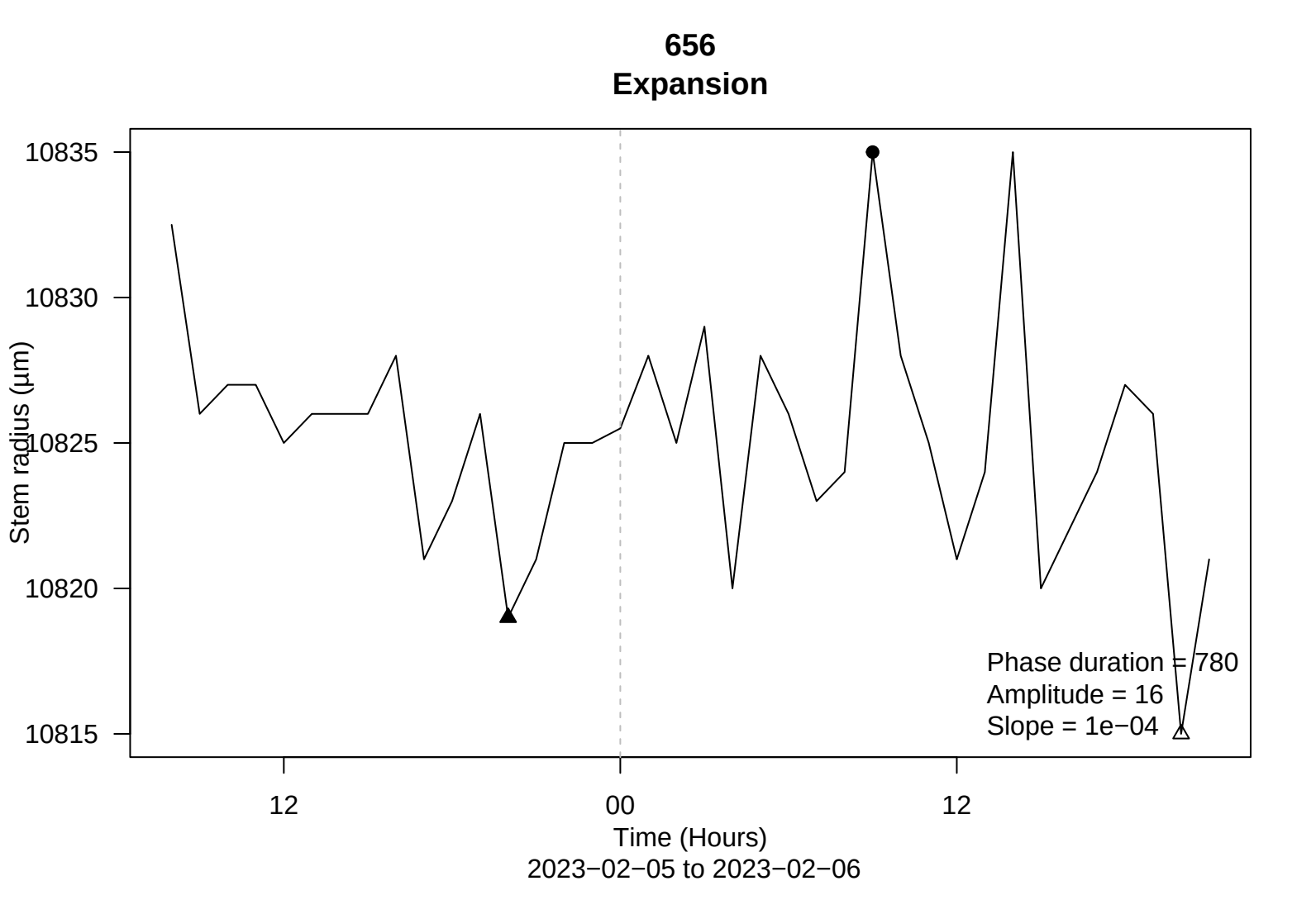

656
Expansion
10914
10912
10910
10908
10906
10904
10902
Stem radius (µm)
00
12
00
12
Time (Hours)
2023−02−02 to 2023−02−03
Phase duration = 960
Amplitude = 9
Slope = 0

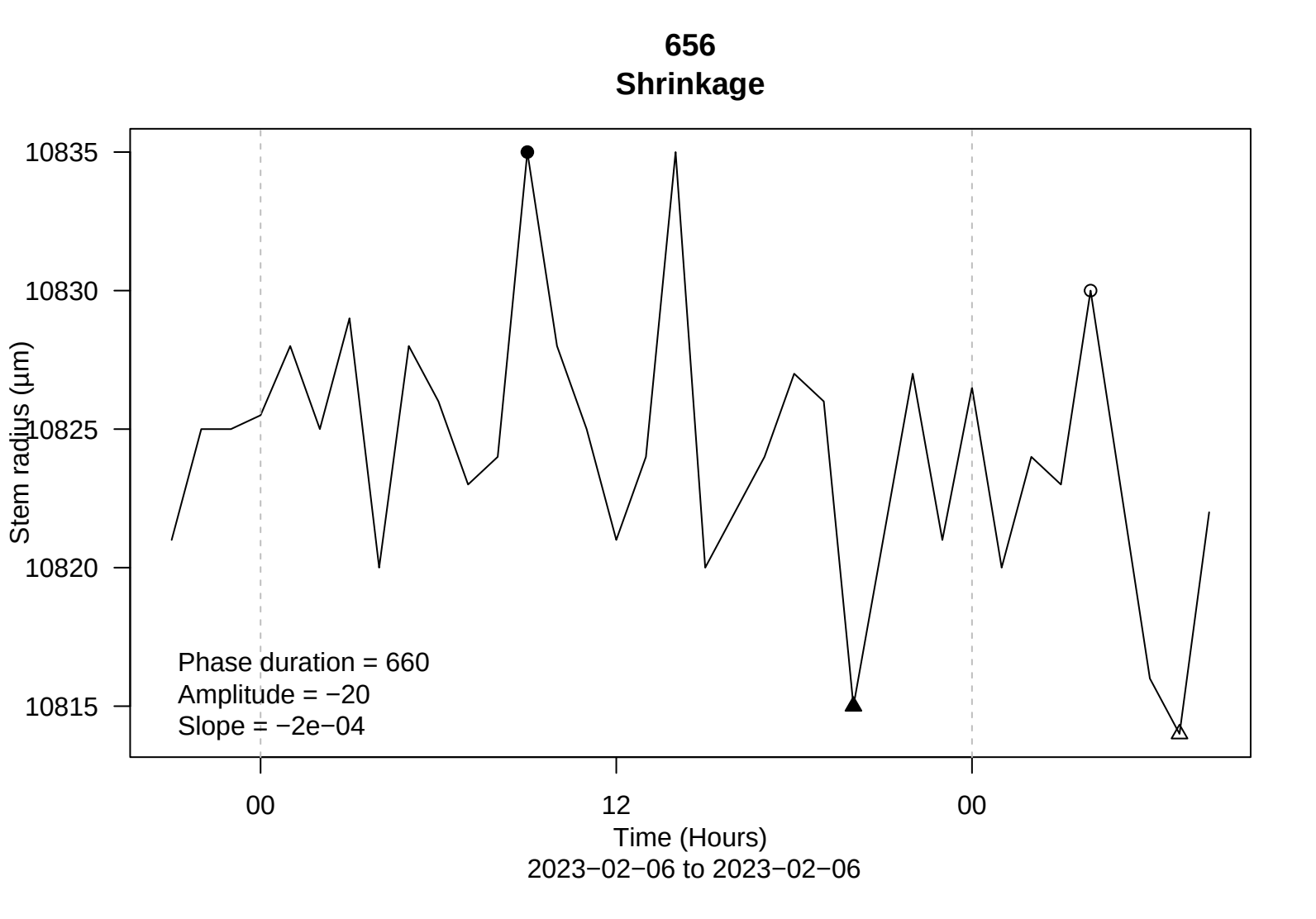

656
Expansion
10914
10912
10910
10908
10906
10904
10902
Stem radius (µm)
Phase duration = 300
Amplitude = 12
Slope = 4e−04
18
00
06
12
18
Time (Hours)
2023−02−03 to 2023−02−03

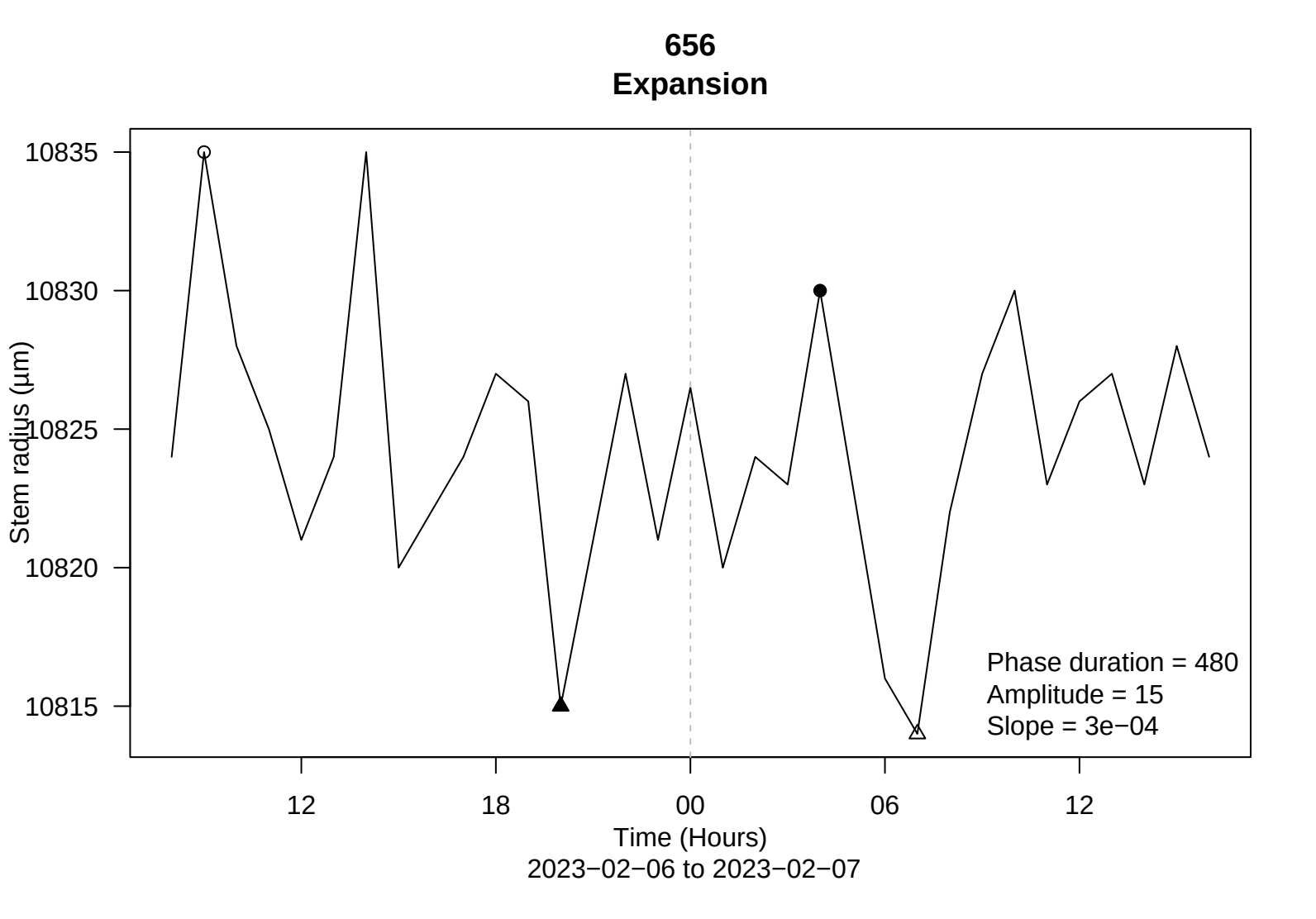

656
Shrinkage
10915
10910
10905
10900
10895
Stem radius (µm)
Phase duration = 420
Amplitude = −13
Slope = −4e−04
00
12
00
Time (Hours)
2023−02−03 to 2023−02−03

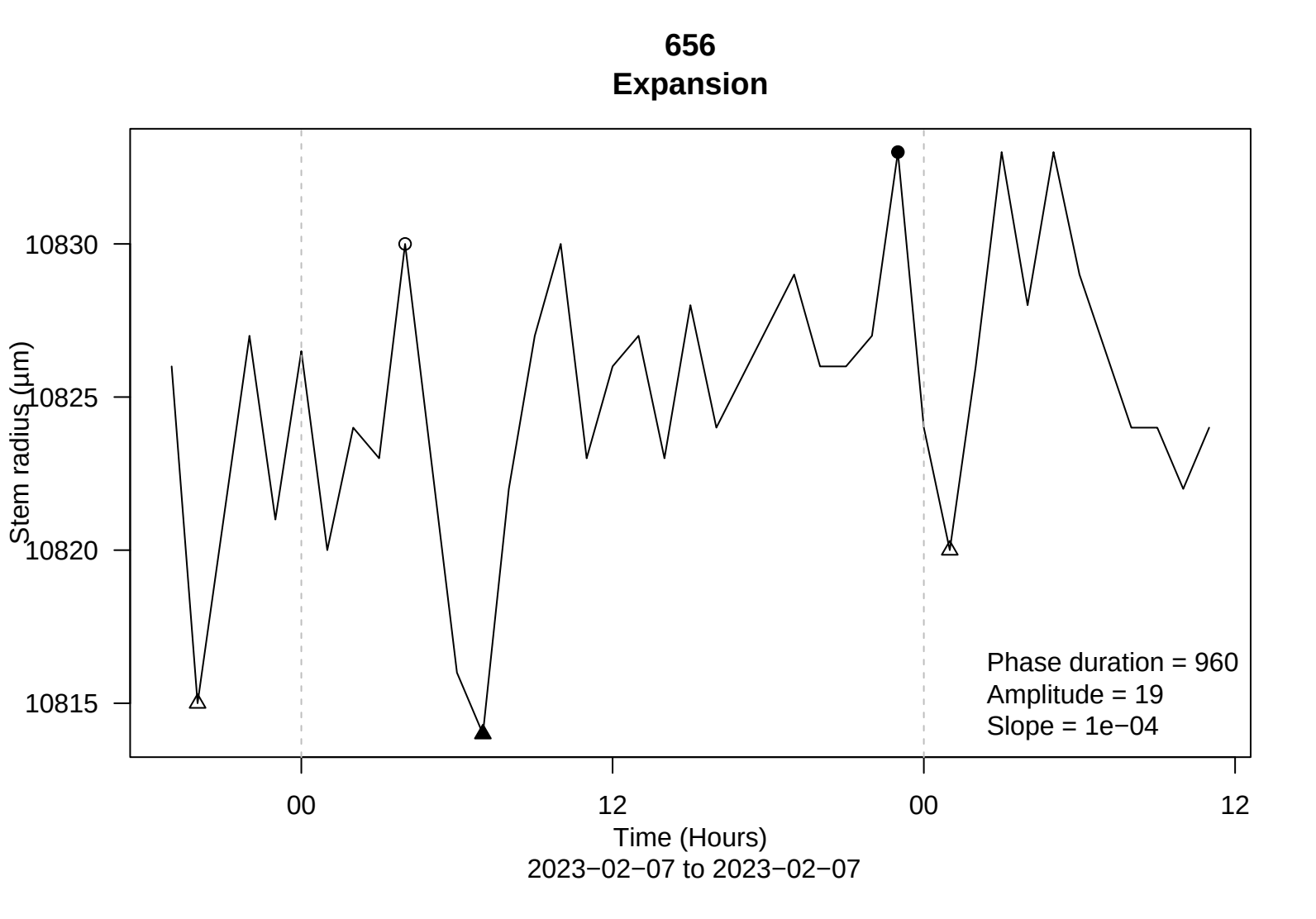

656
Shrinkage
10915
10910
10905
10900
10895
Stem radius (µm)
Phase duration = 480
Amplitude = −20
Slope = −5e−04
12
00
12
Time (Hours)
2023−02−03 to 2023−02−04

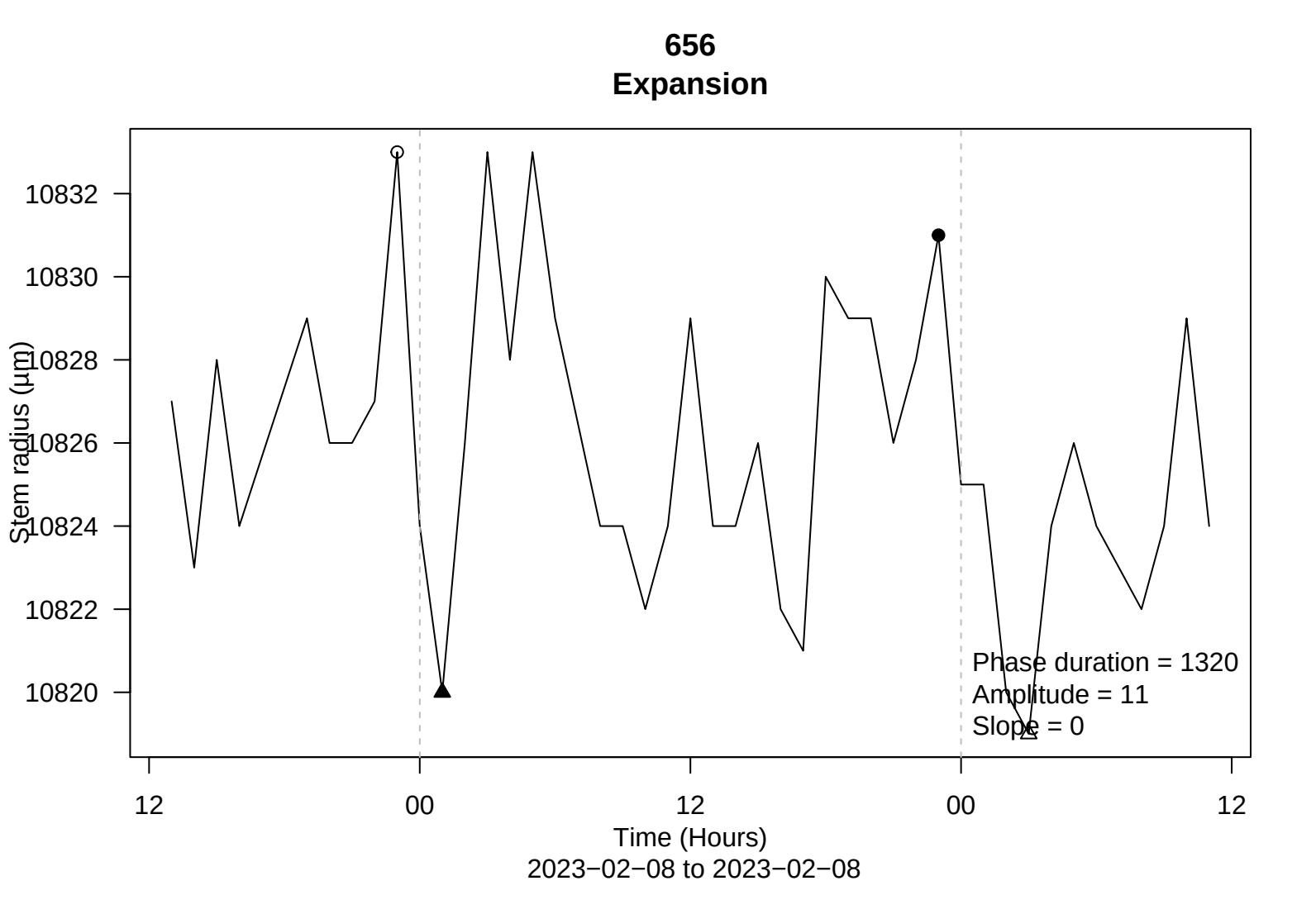

656
Shrinkage
10920
10900
10880
10860
10840
10820
Stem radius (µm)
Phase duration = 2220
Amplitude = −100
Slope = −9e−04
00
12
00
12
00
Time (Hours)
2023−02−04 to 2023−02−05

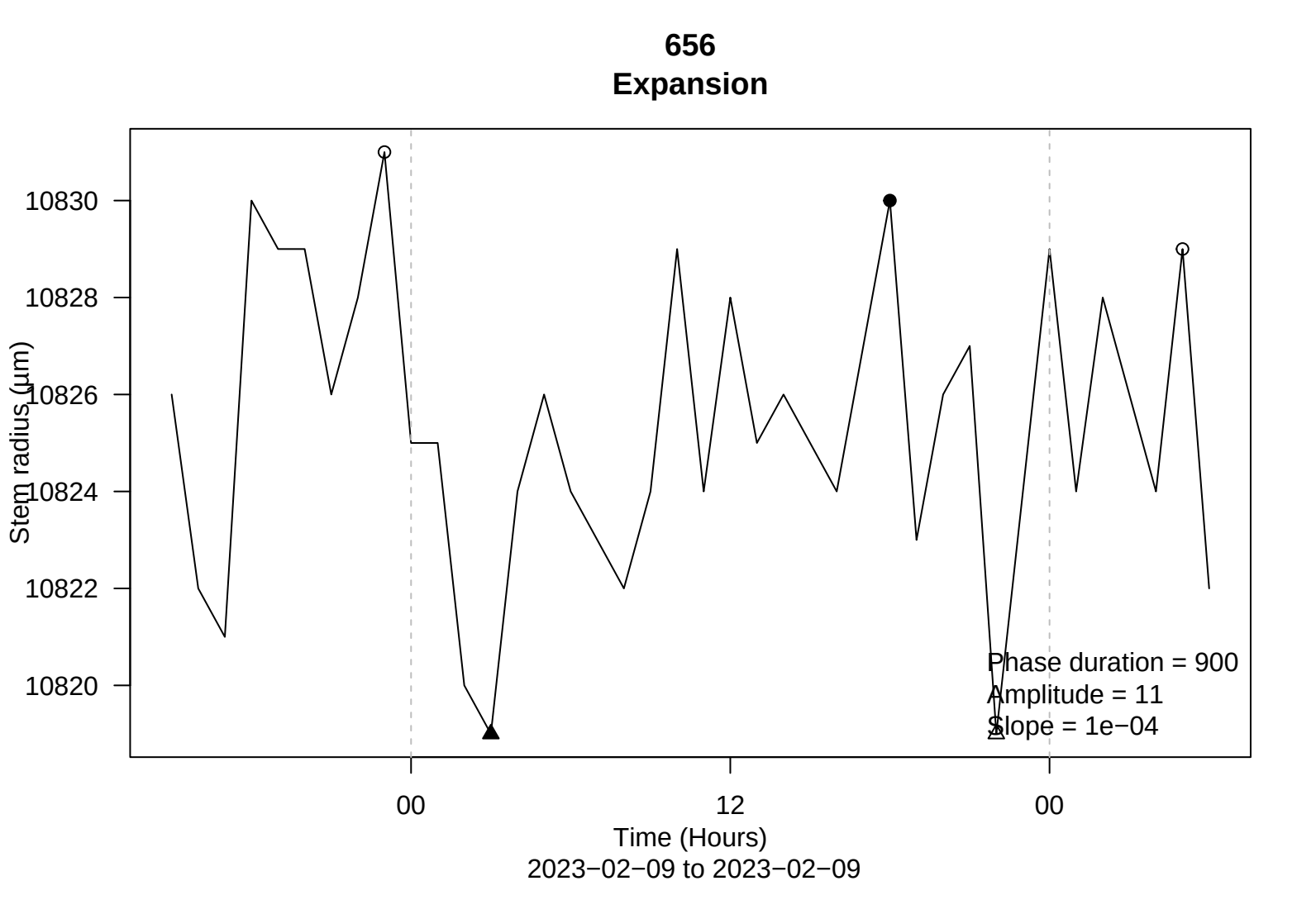

656
Expansion
10835
10830
10825
10820
10815
Stem radius (µm)
Phase duration = 780
Amplitude = 16
Slope = 1e−04
12
00
12
Time (Hours)
2023−02−05 to 2023−02−06

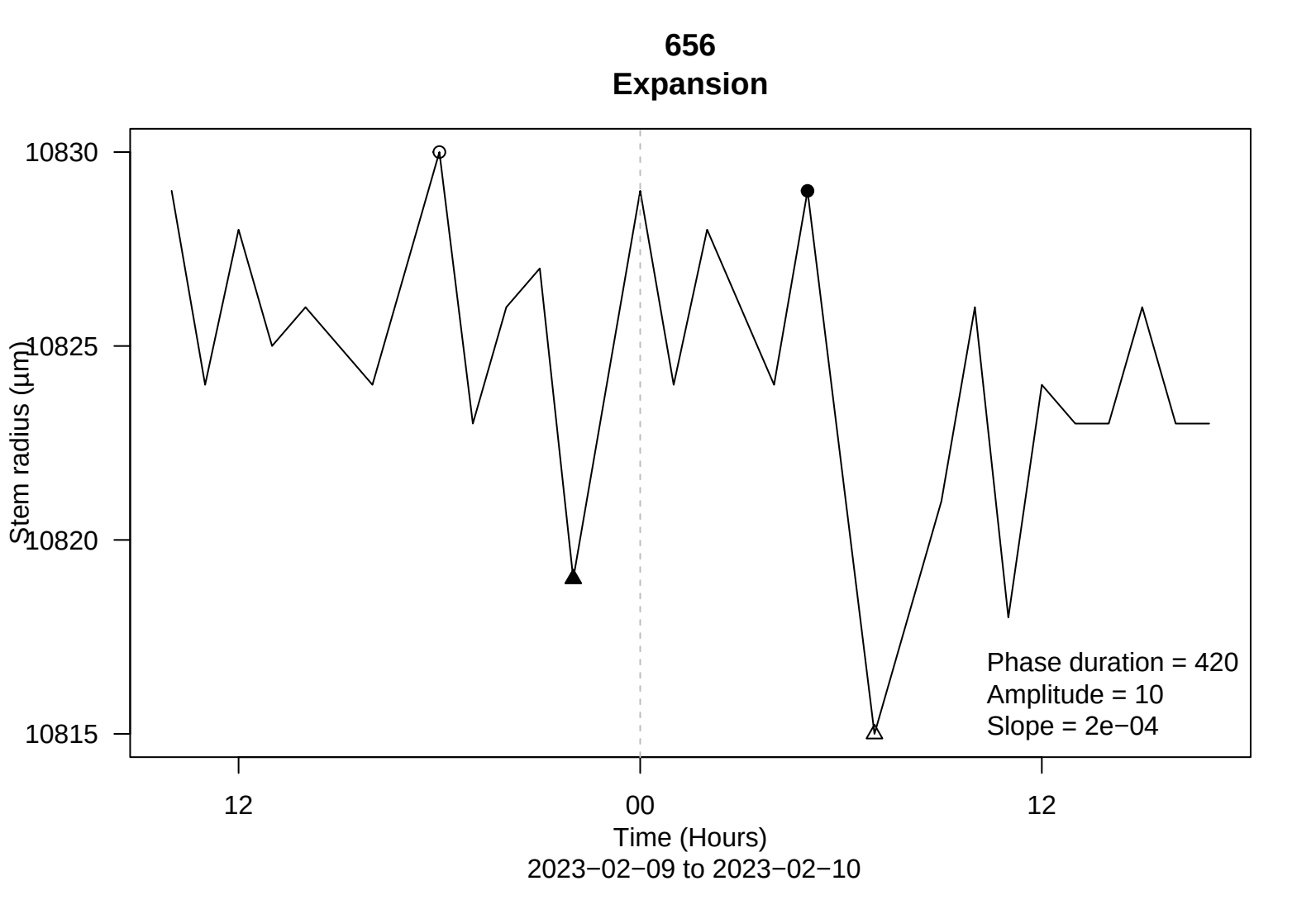

656
Shrinkage
10835
10830
10825
10820
10815
Stem radius (µm)
Phase duration = 660
Amplitude = −20
Slope = −2e−04
00
12
00
Time (Hours)
2023−02−06 to 2023−02−06

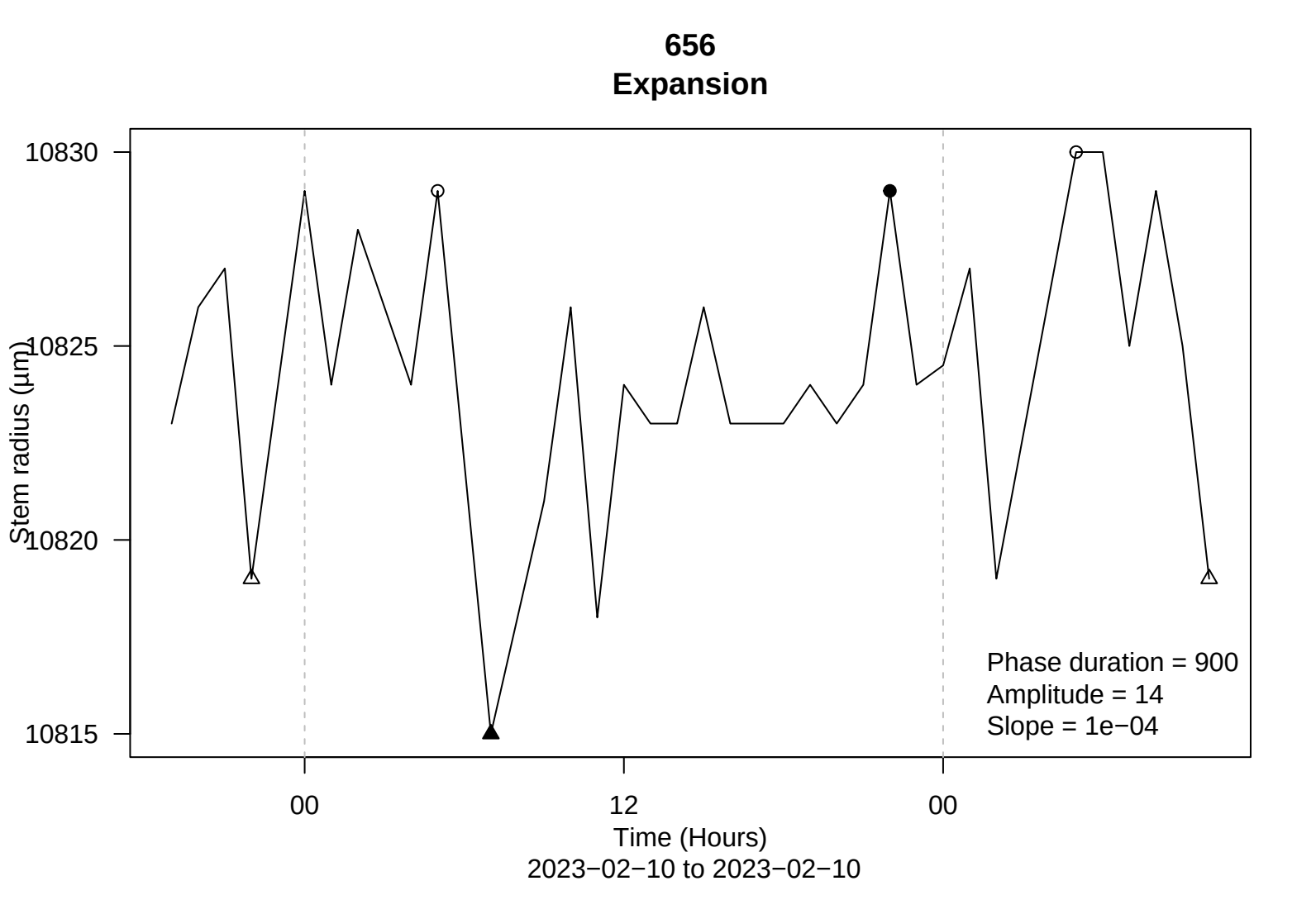

656
Expansion
10835
10830
10825
10820
10815
Stem radius (µm)
12
18
00
06
12
Time (Hours)
2023−02−06 to 2023−02−07
Phase duration = 480
Amplitude = 15
Slope = 3e−04

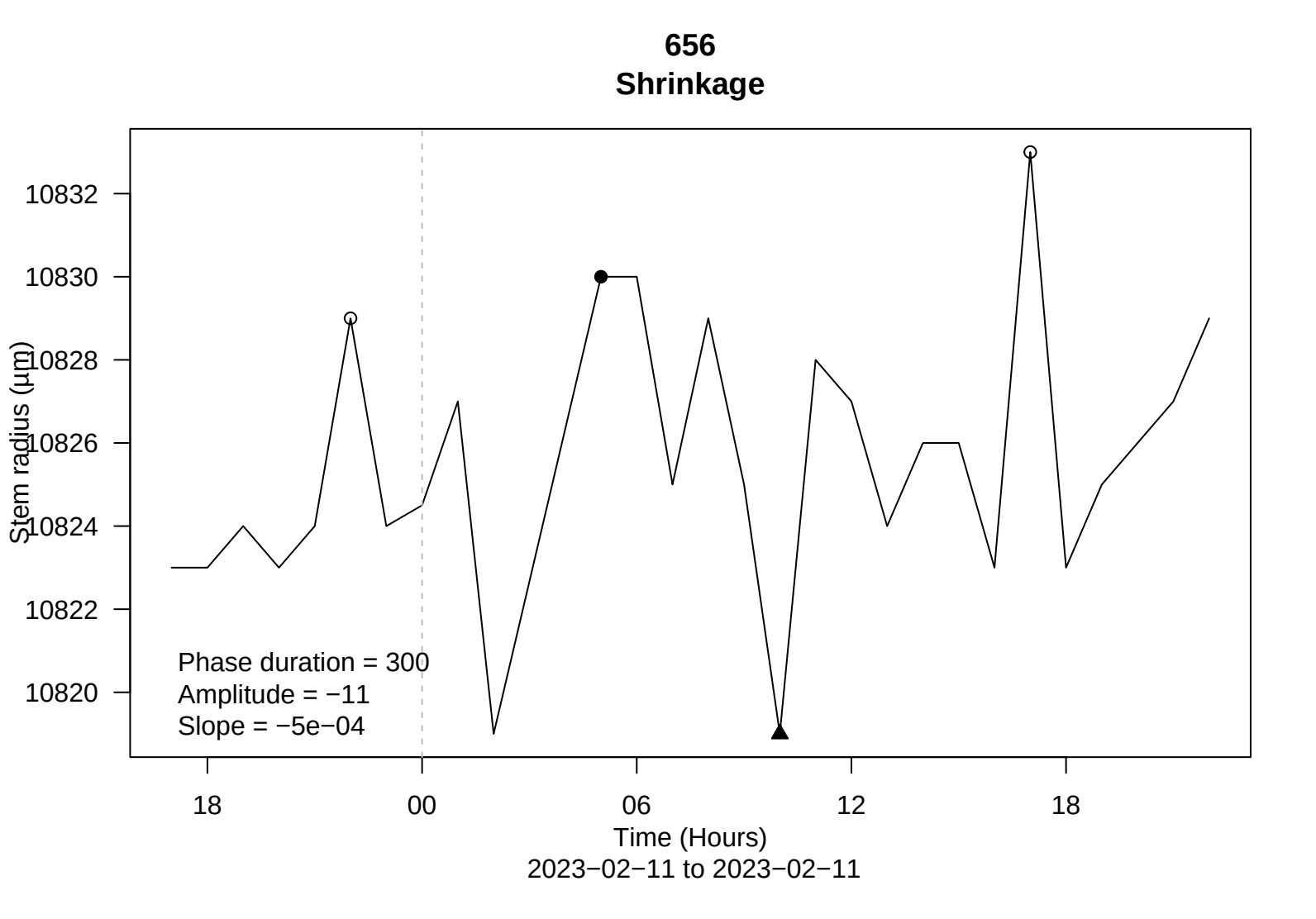

656
Expansion
10830
10825
10820
10815
Stem radius (µm)
Phase duration = 960
Amplitude = 19
Slope = 1e−04
00
12
00
12
Time (Hours)
2023−02−07 to 2023−02−07

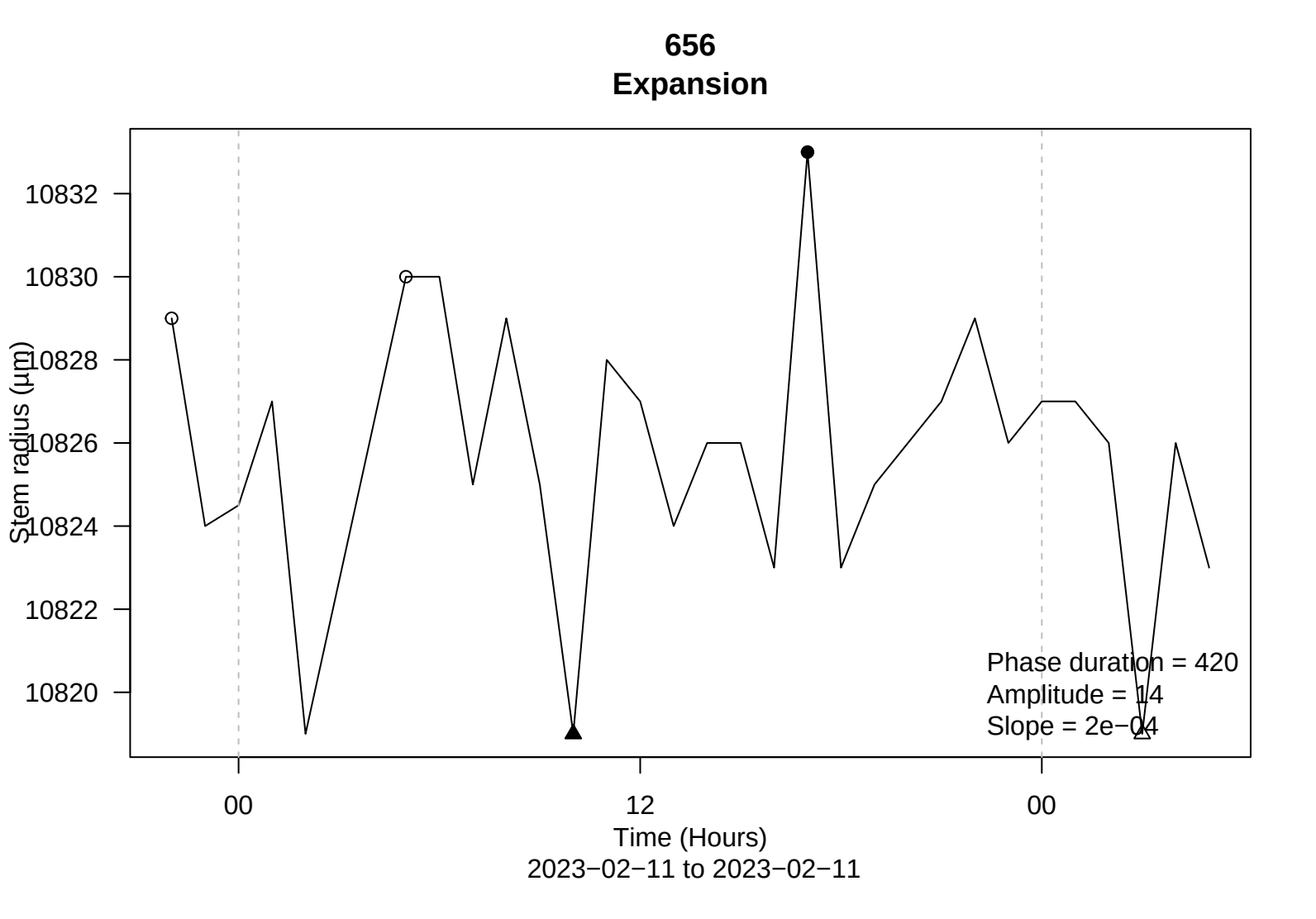

656
Expansion
10832
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 1320
Amplitude = 11
Slope = 0
12
00
12
00
12
Time (Hours)
2023−02−08 to 2023−02−08

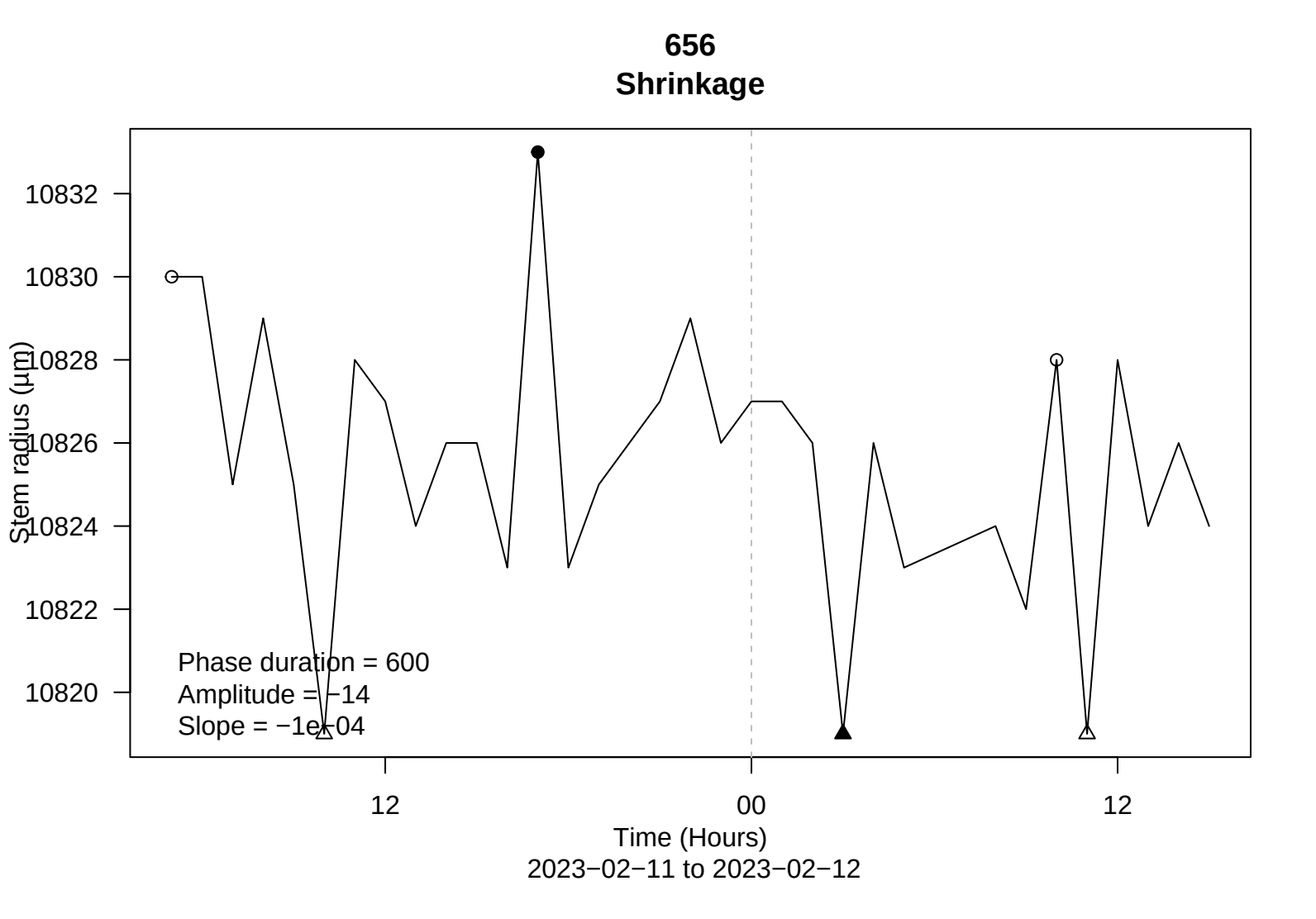

656
Expansion
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 900
Amplitude = 11
Slope = 1e−04
00
12
00
Time (Hours)
2023−02−09 to 2023−02−09

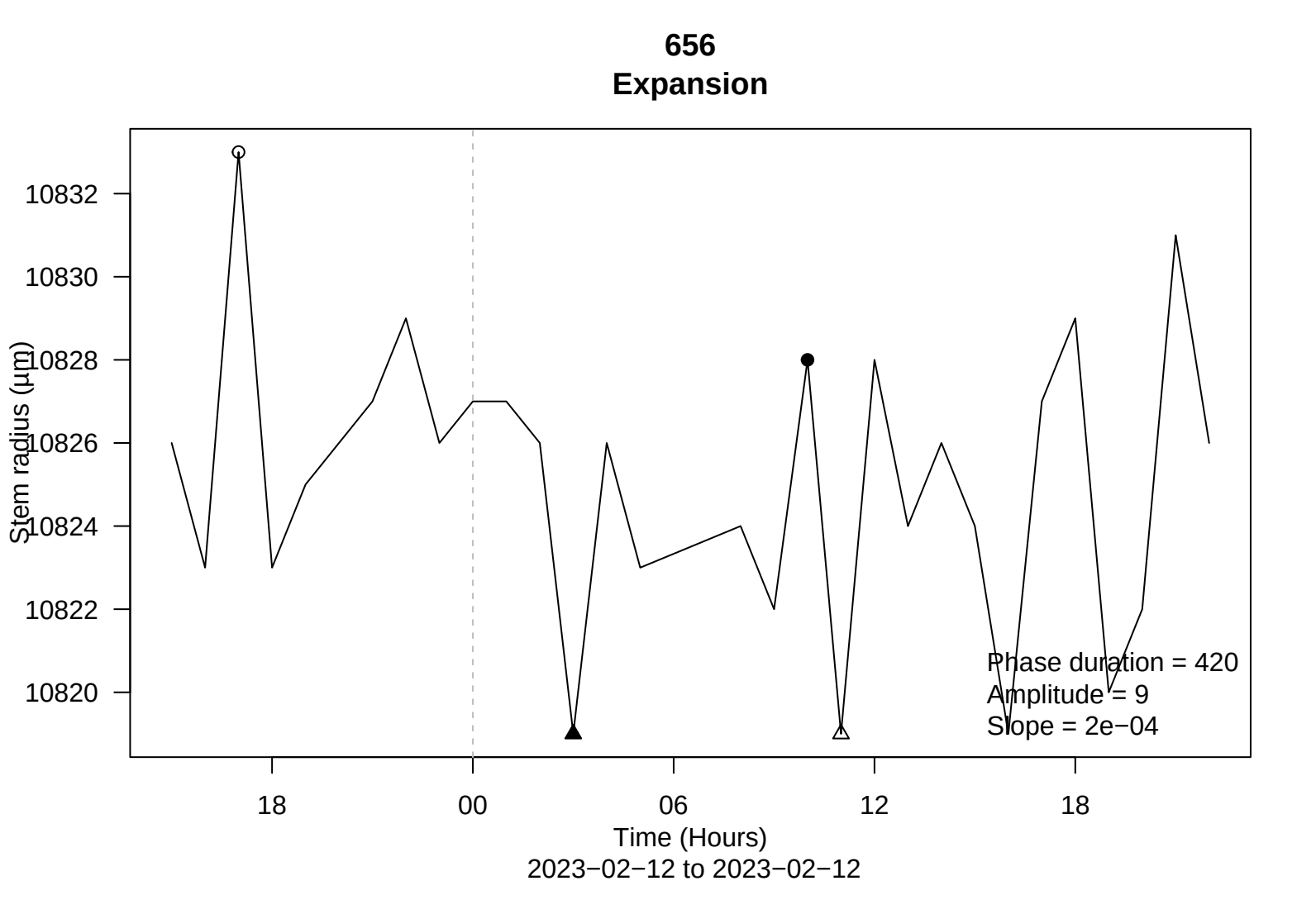

656
Expansion
10830
10825
10820
10815
Stem radius (µm)
Phase duration = 420
Amplitude = 10
Slope = 2e−04
12
00
12
Time (Hours)
2023−02−09 to 2023−02−10

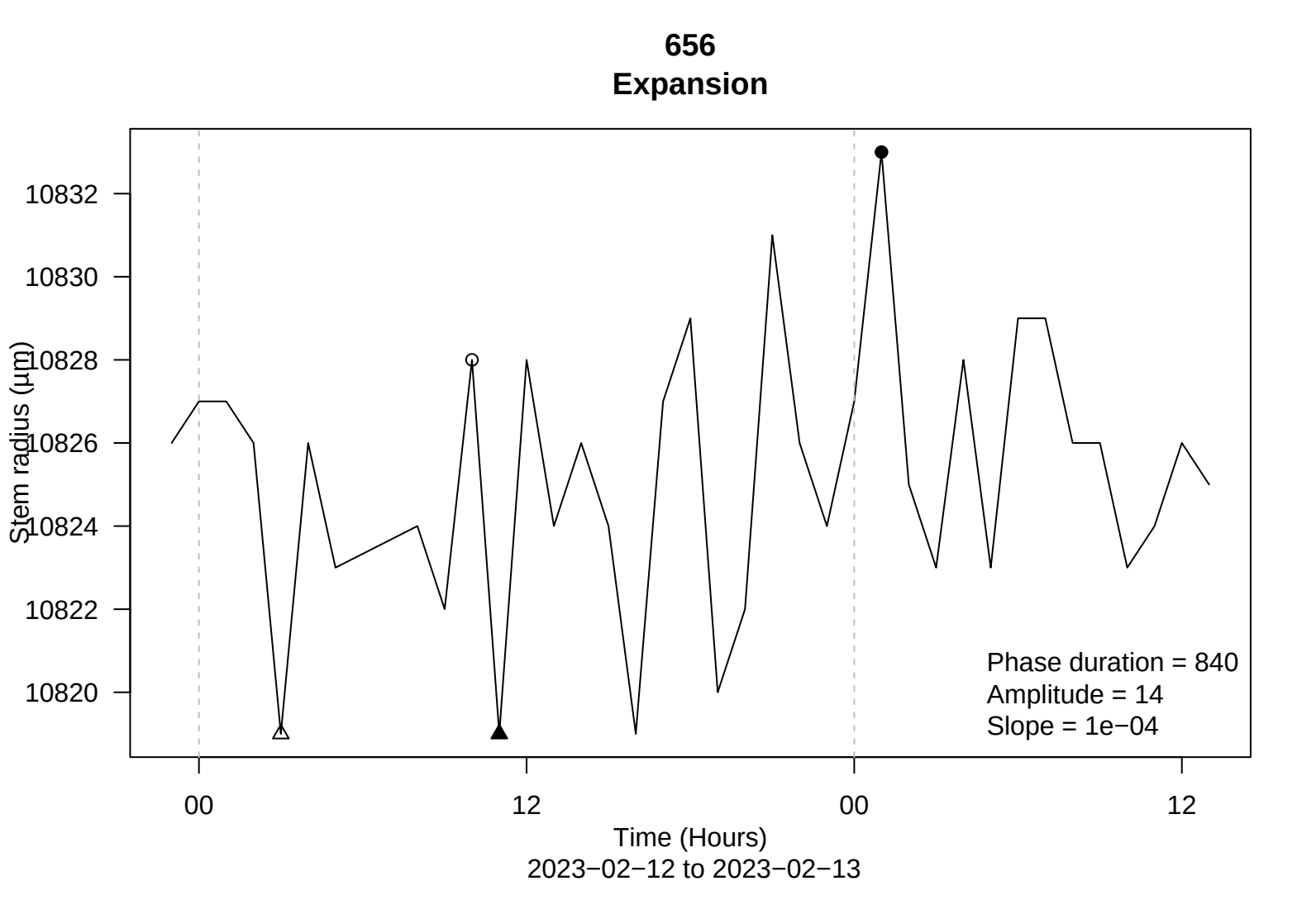

656
Expansion
10830
10825
10820
10815
Stem radius (µm)
00
12
00
Time (Hours)
2023−02−10 to 2023−02−10
Phase duration = 900
Amplitude = 14
Slope = 1e−04

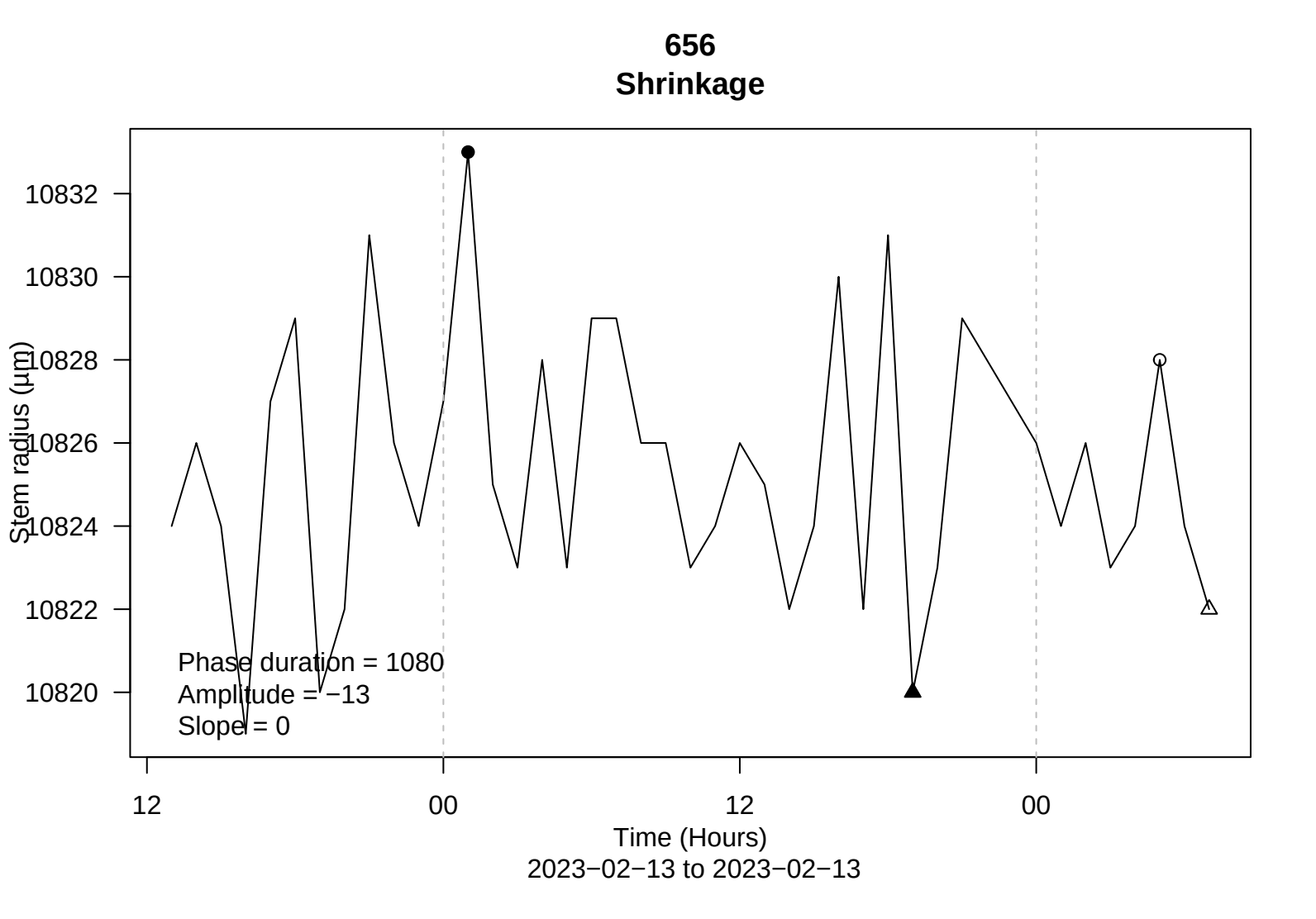

656
Shrinkage
10832
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 300
Amplitude = −11
Slope = −5e−04
18
00
06
12
18
Time (Hours)
2023−02−11 to 2023−02−11

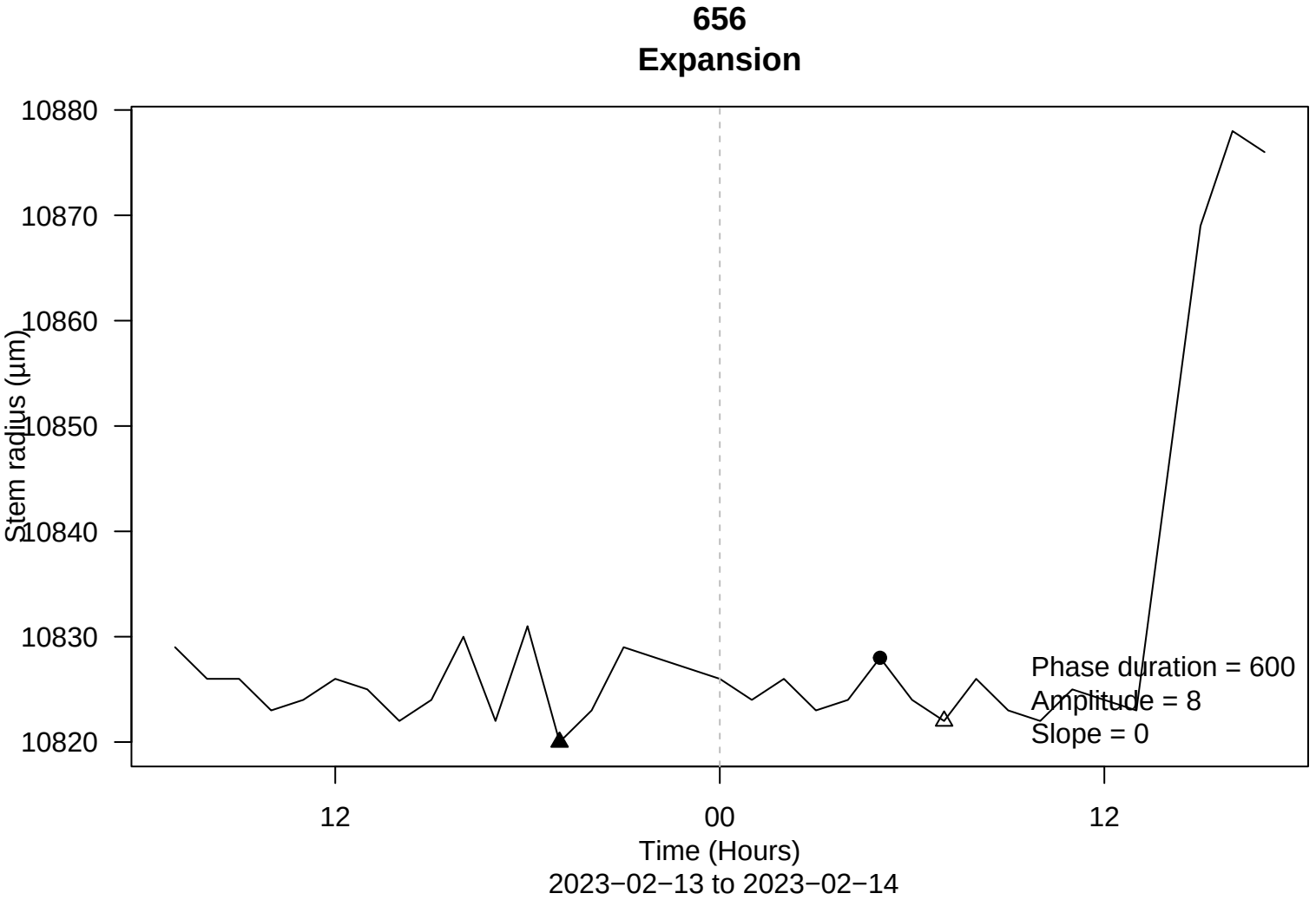

656
Expansion
10832
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 420
Amplitude = 14
Slope = 2e−04
00
12
00
Time (Hours)
2023−02−11 to 2023−02−11

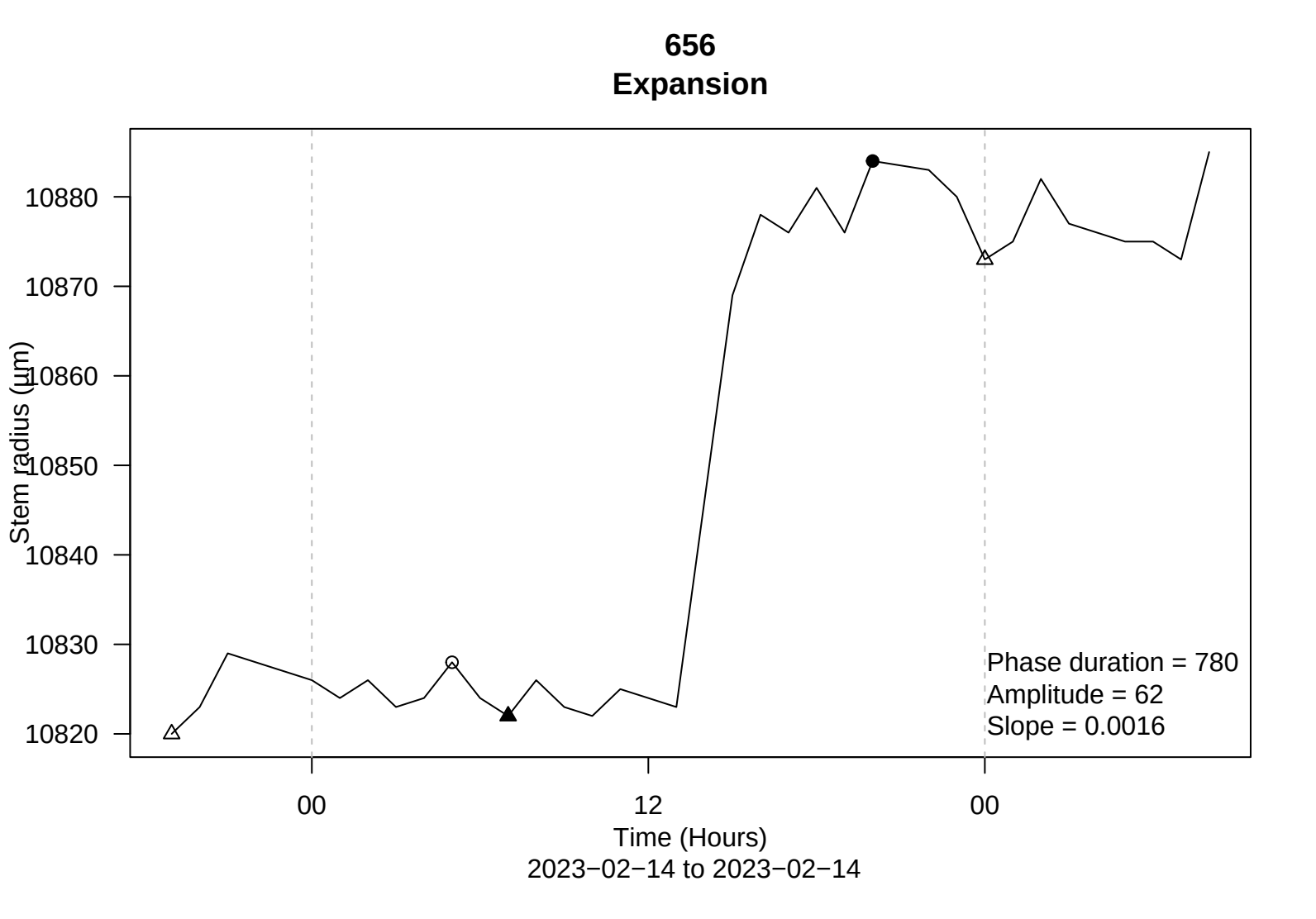

656
Shrinkage
10832
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 600
Amplitude = −14
Slope = −1e−04
12
00
12
Time (Hours)
2023−02−11 to 2023−02−12

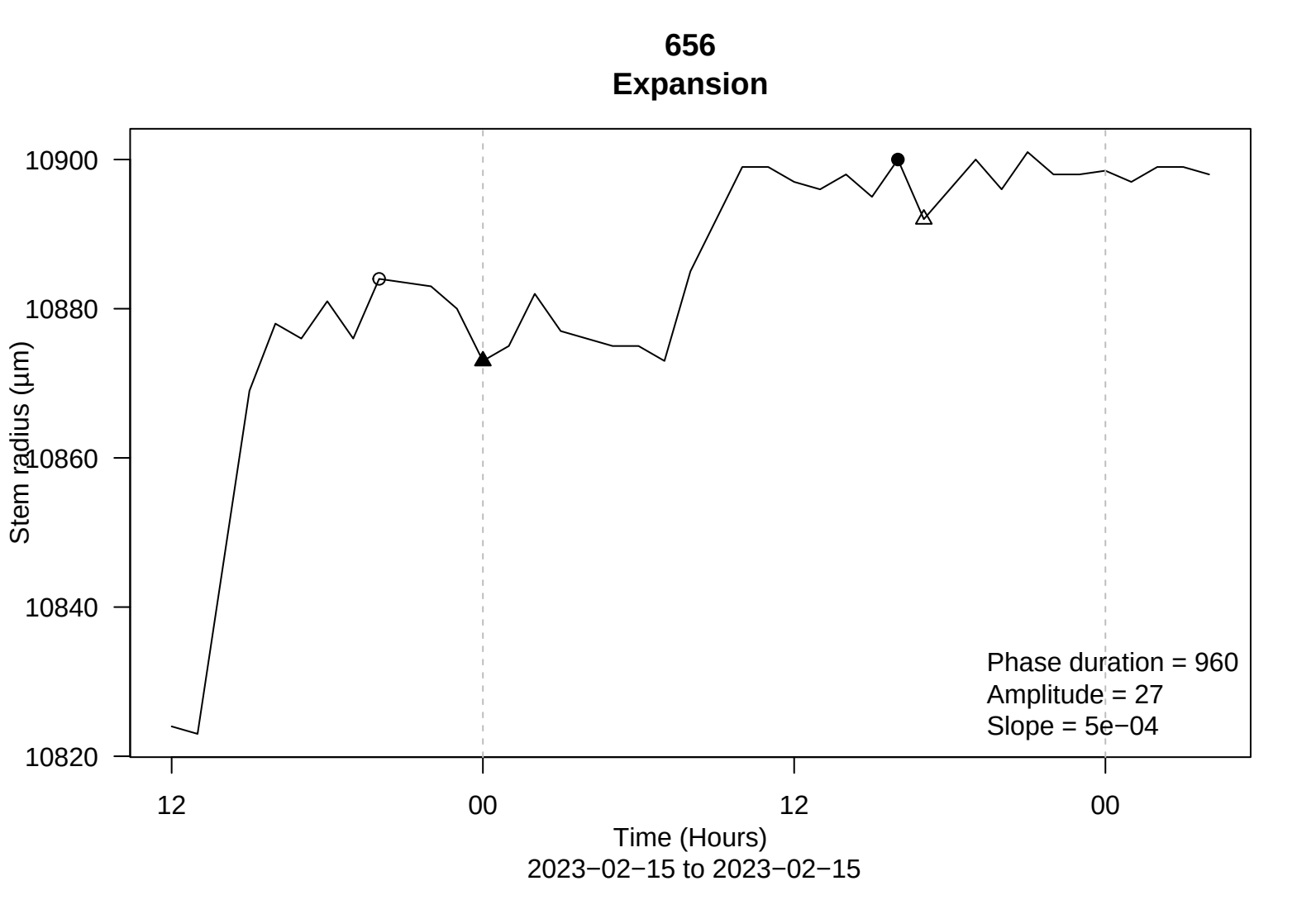

656
Expansion
Stem radius (µm)
10832
10830
10828
10826
10824
10822
10820
18
00
06
12
18
Time (Hours)
2023−02−12 to 2023−02−12
Phase duration = 420
Amplitude = 9
Slope = 2e−04

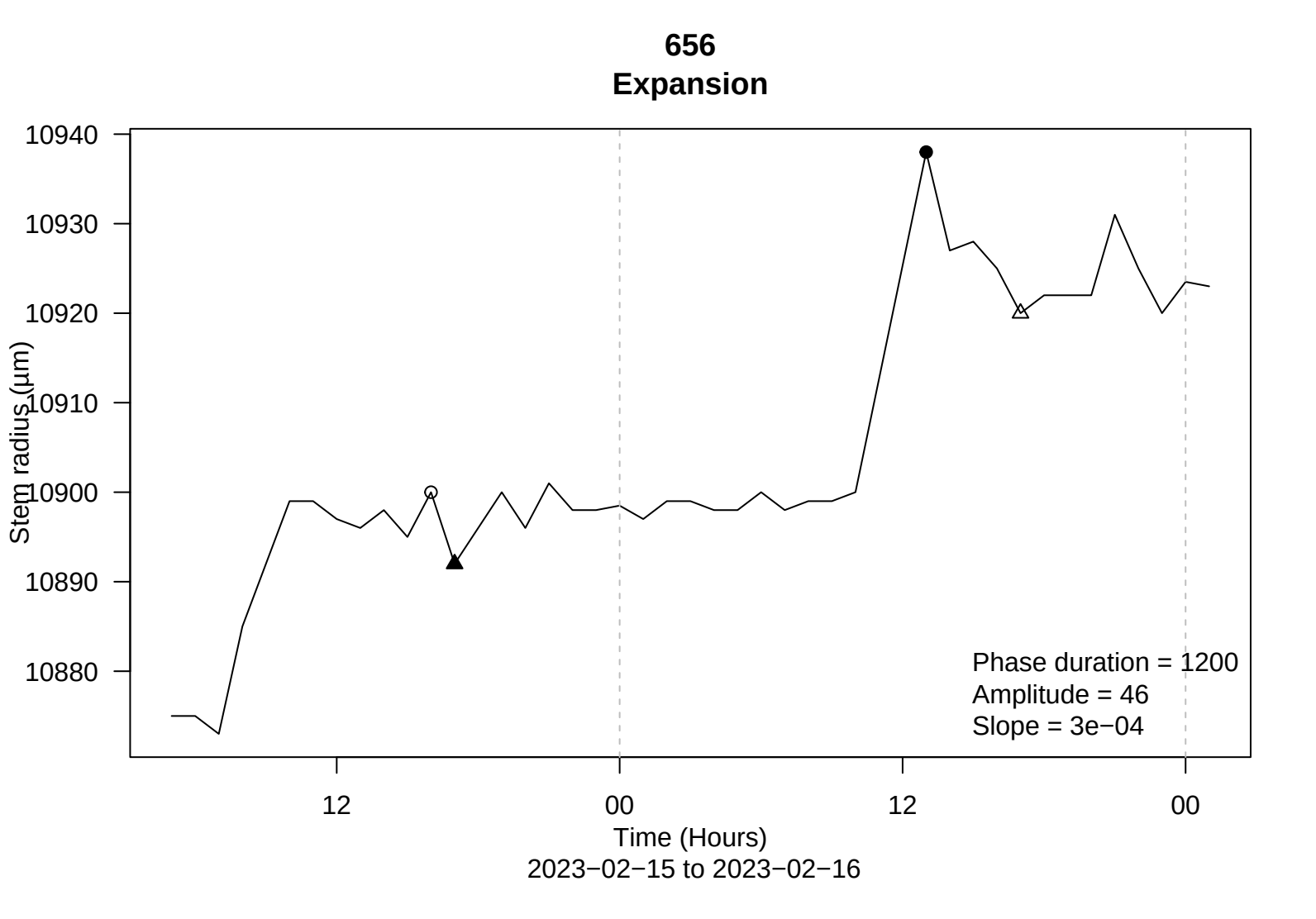

656
Expansion
10832
10830
10828
10826
10824
10822
10820
Stem radius (µm)
Phase duration = 840
Amplitude = 14
Slope = 1e−04
00
12
00
12
Time (Hours)
2023−02−12 to 2023−02−13

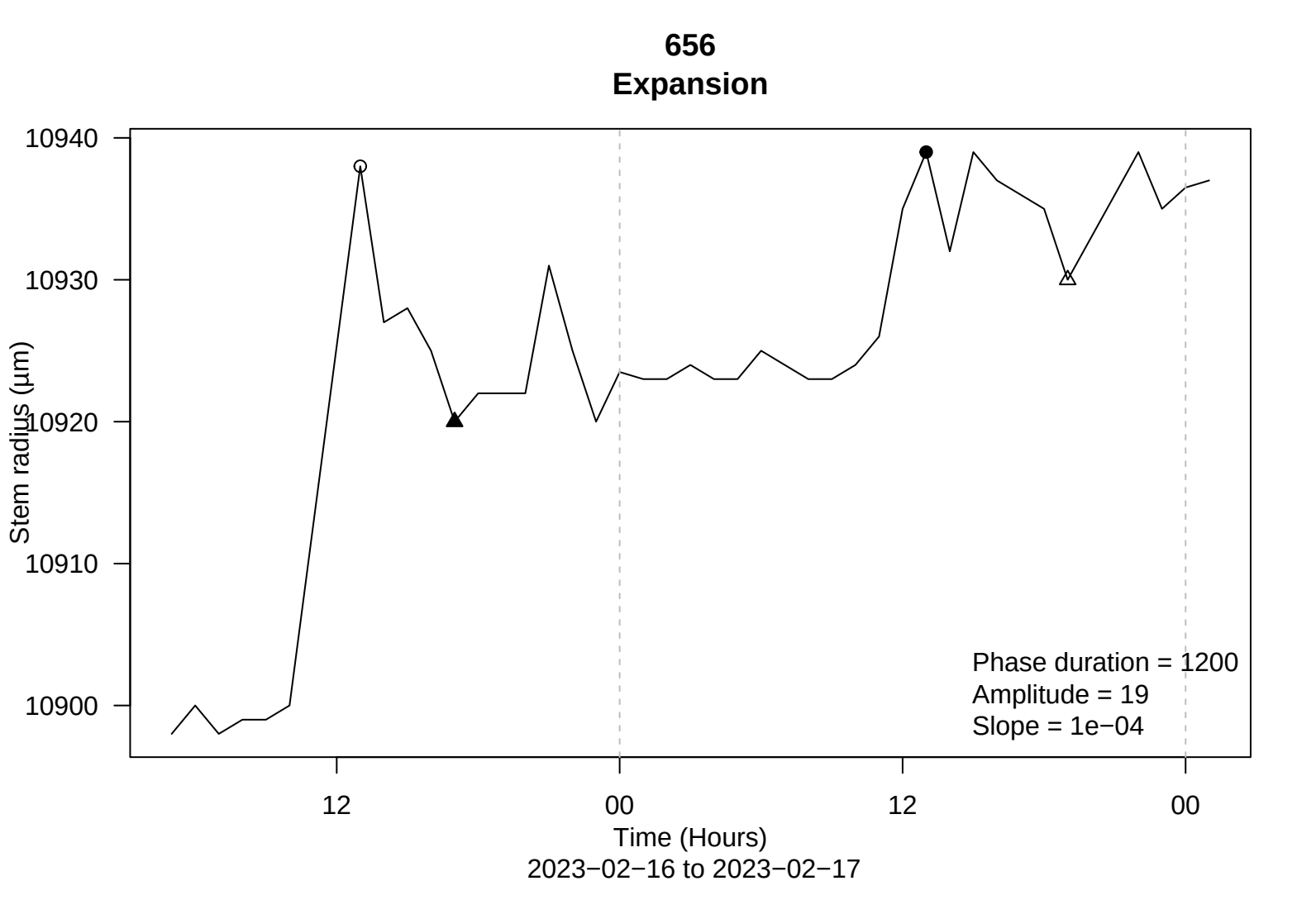

656
Shrinkage
Stem radius (µm)
10832
10830
10828
10826
10824
10822
10820
Phase duration = 1080
Amplitude = −13
Slope = 0
12
00
12
00
Time (Hours)
2023−02−13 to 2023−02−13

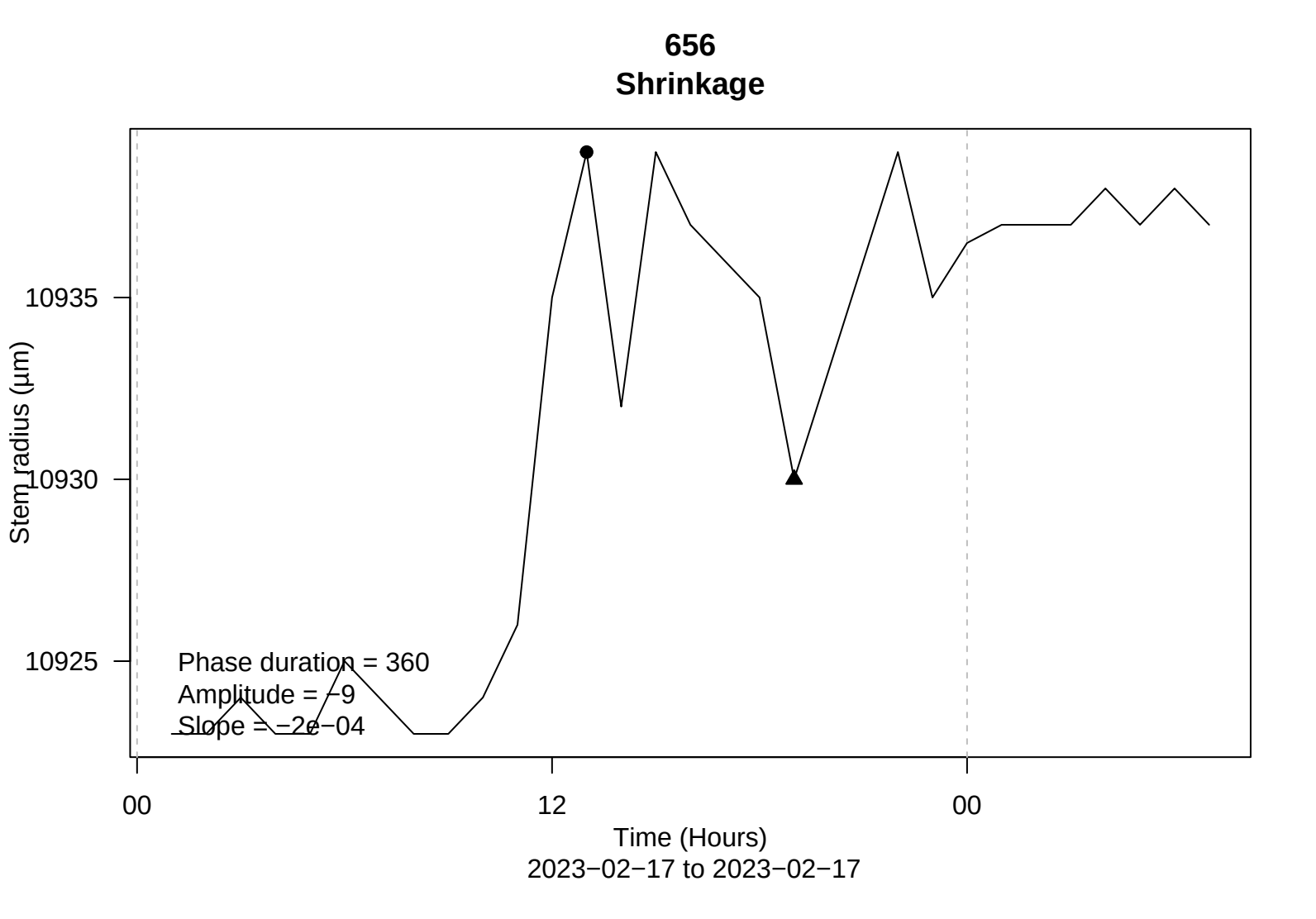

656
Expansion
10880
10870
10860
10850
10840
10830
10820
Stem radius (µm)
12
00
12
Time (Hours)
2023−02−13 to 2023−02−14
Phase duration = 600
Amplitude = 8
Slope = 0

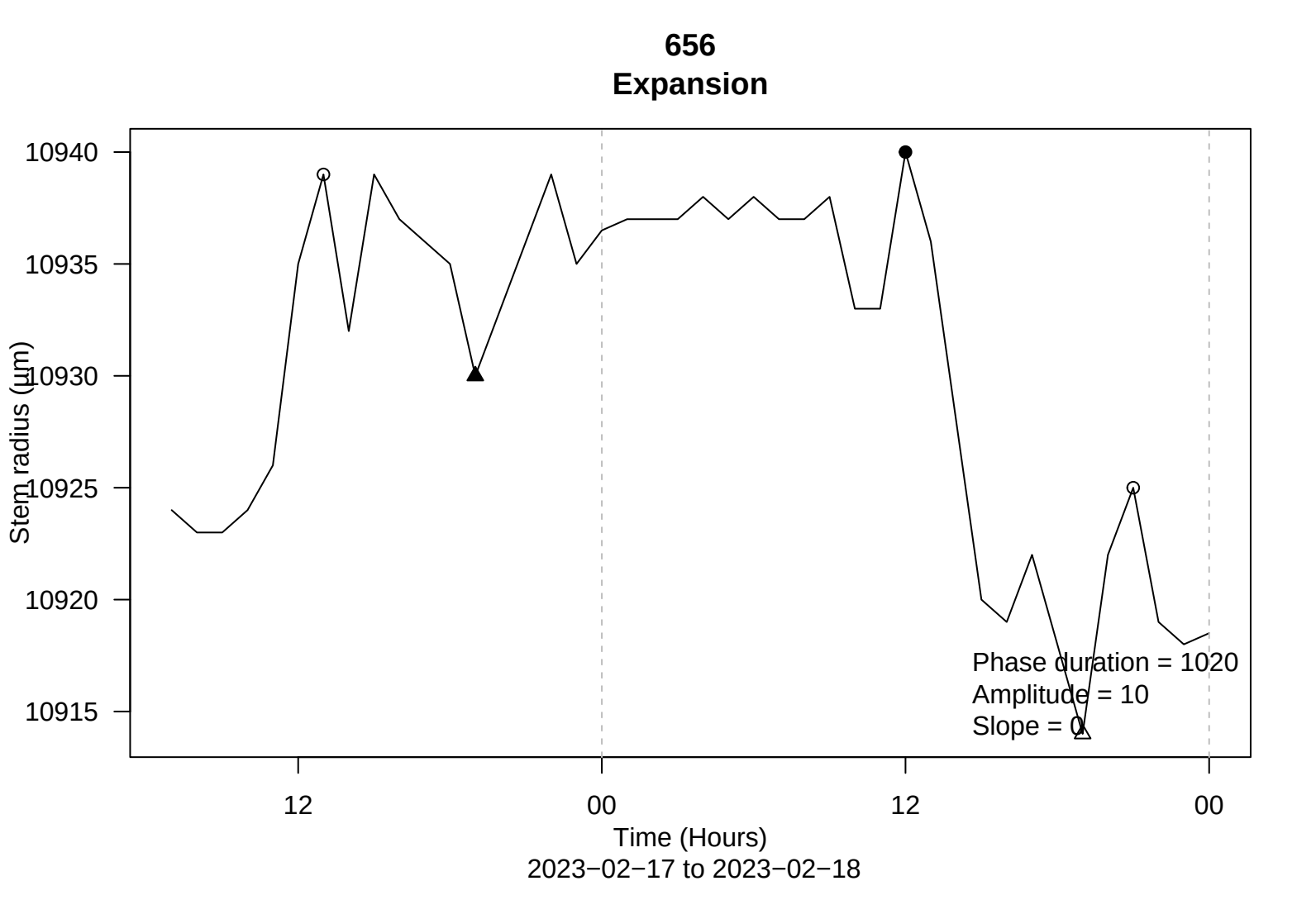

656
Expansion
10880
10870
10860
10850
10840
10830
10820
Stem radius (µm)
Phase duration = 780
Amplitude = 62
Slope = 0.0016
00
12
00
Time (Hours)
2023−02−14 to 2023−02−14

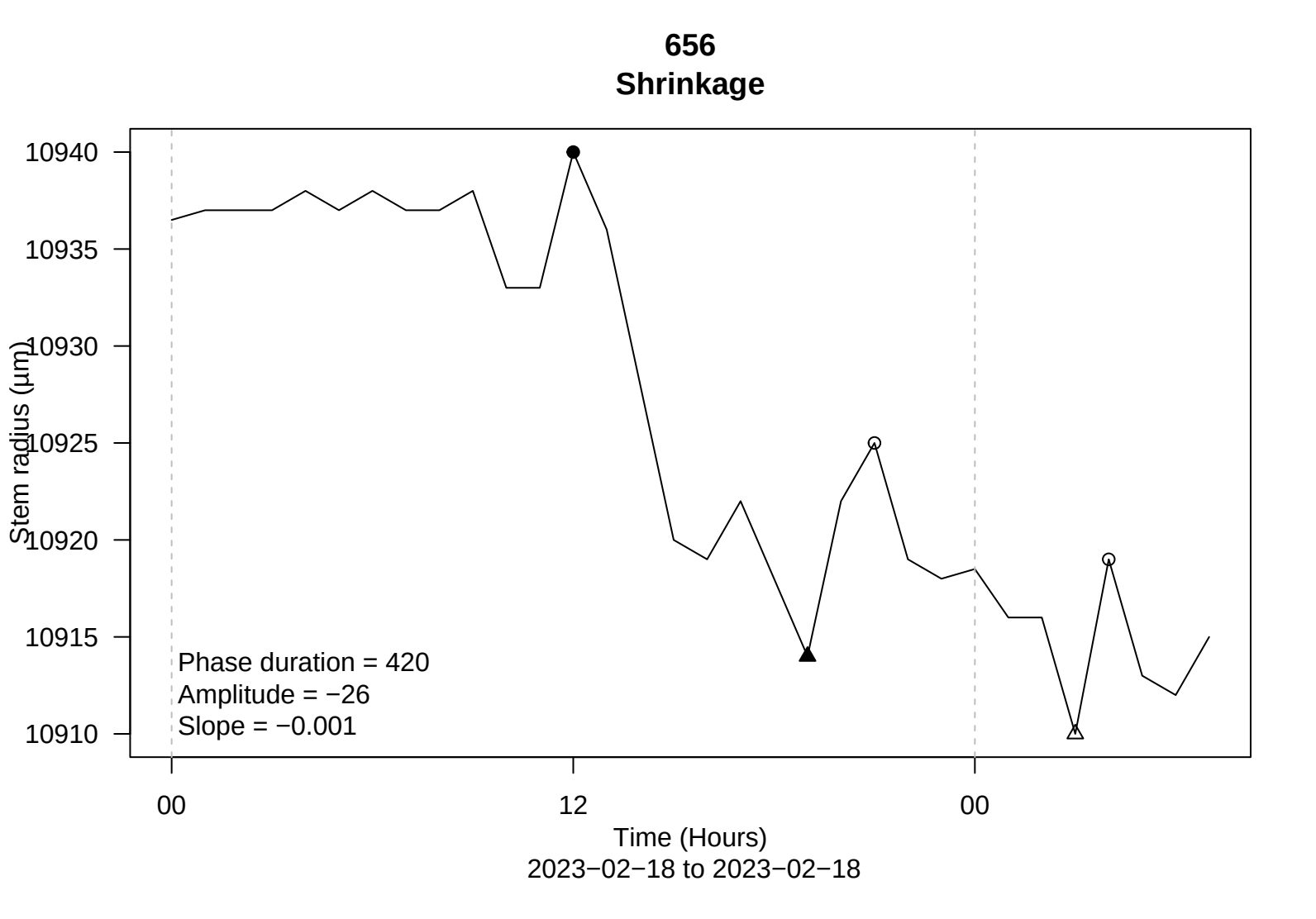

656
Expansion
10900
10880
10860
10840
10820
Stem radius (µm)
Phase duration = 960
Amplitude = 27
Slope = 5e−04
12
00
12
00
Time (Hours)
2023−02−15 to 2023−02−15

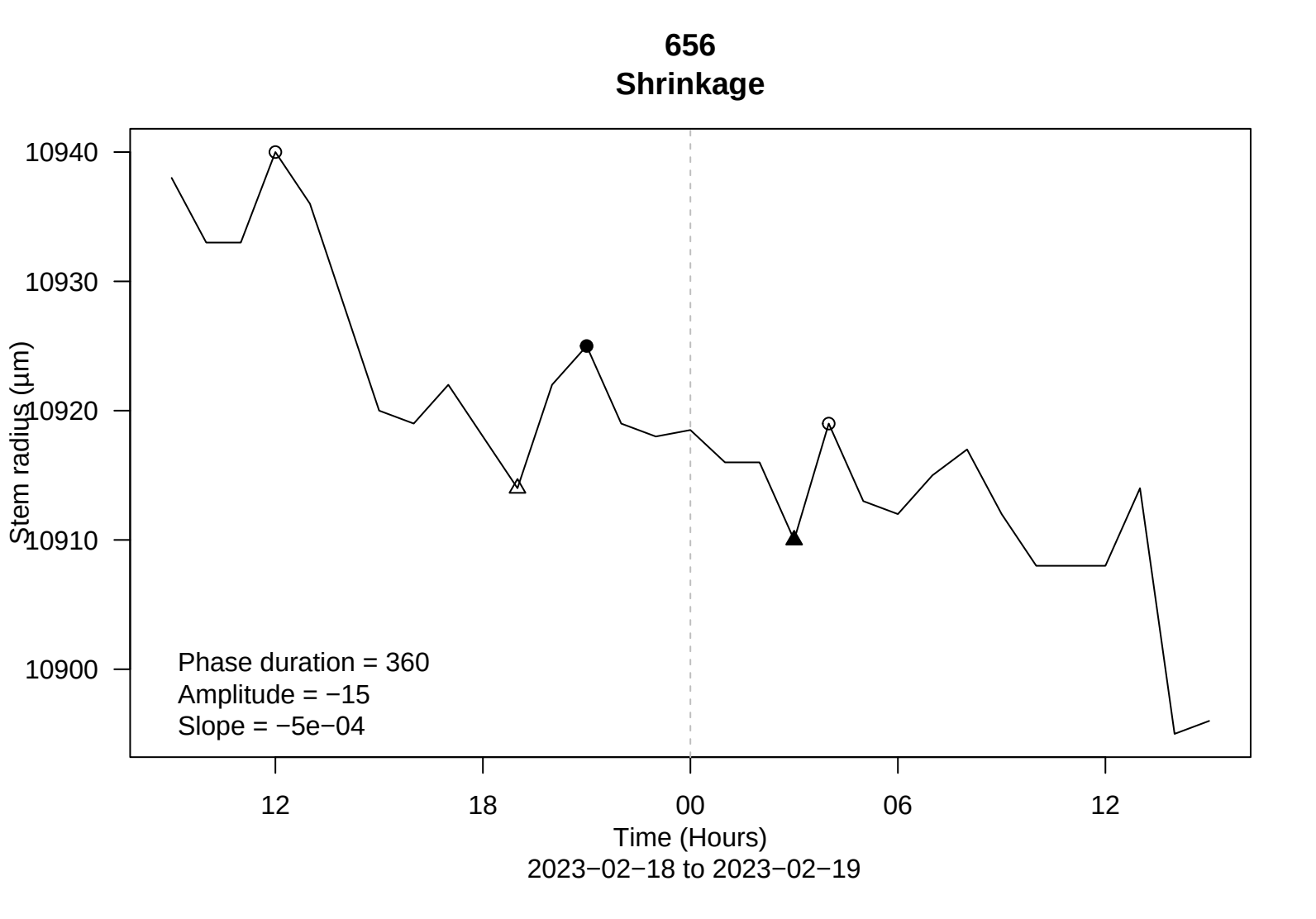

656
Expansion
10940
10930
10920
10910
10900
10890
10880
Stem radius (µm)
Phase duration = 1200
Amplitude = 46
Slope = 3e−04
12
00
12
00
Time (Hours)
2023−02−15 to 2023−02−16

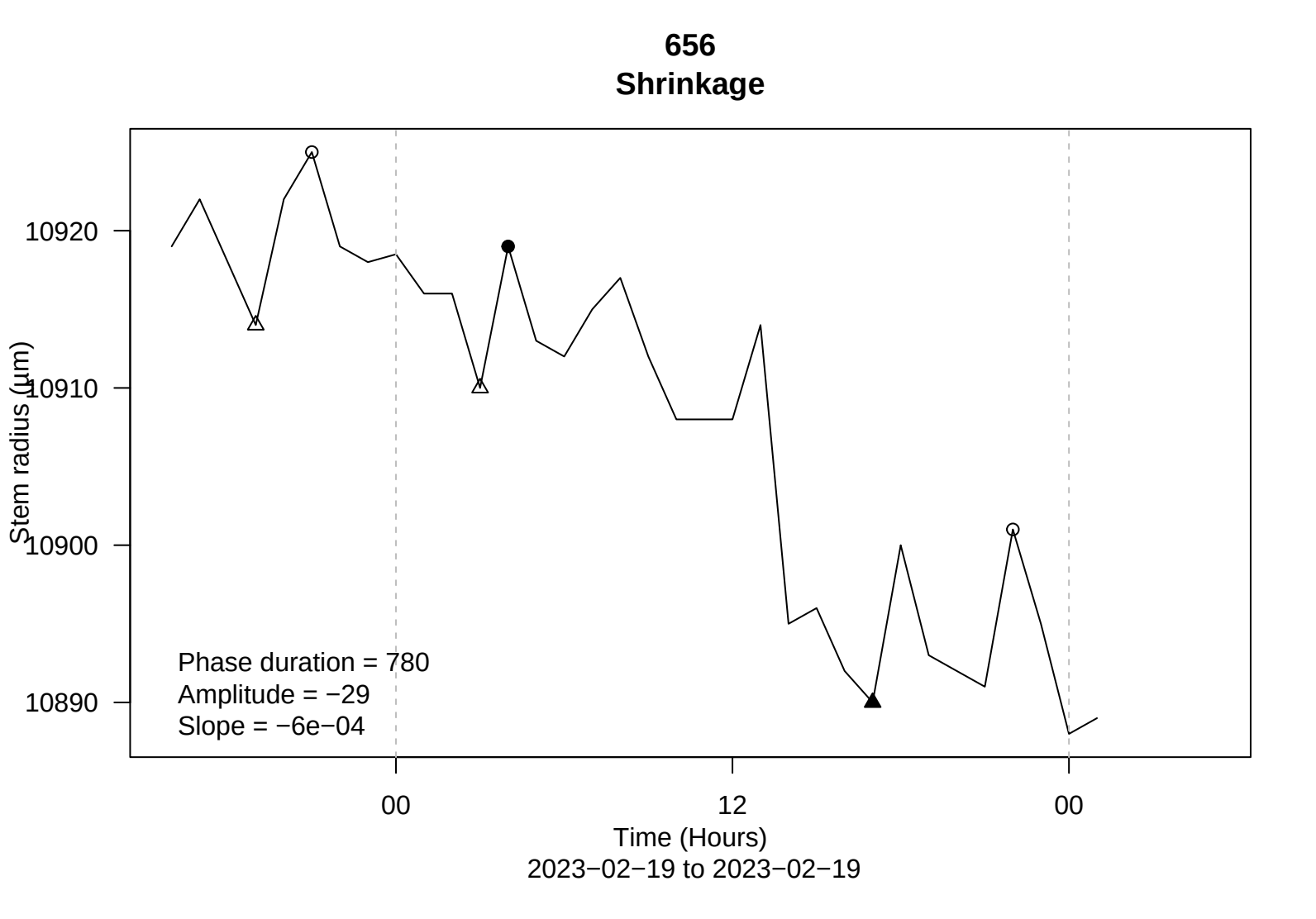

656
Expansion
10940
10930
10920
10910
10900
Stem radius (µm)
Phase duration = 1200
Amplitude = 19
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−02−16 to 2023−02−17

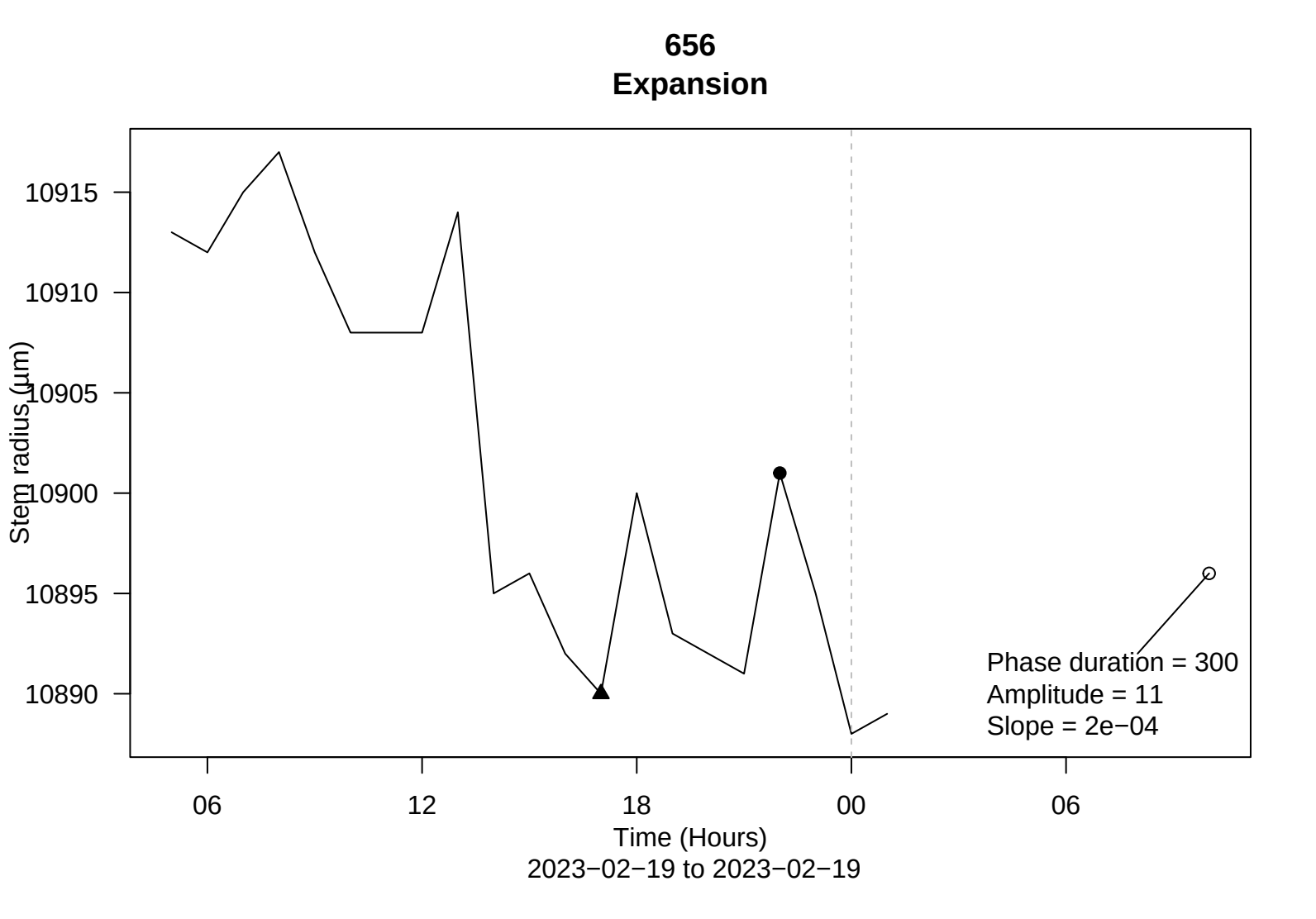

656
Shrinkage
10935
10930
10925
Stem radius (µm)
Phase duration = 360
Amplitude = −9
Slope = −2e−04
00
12
00
Time (Hours)
2023−02−17 to 2023−02−17

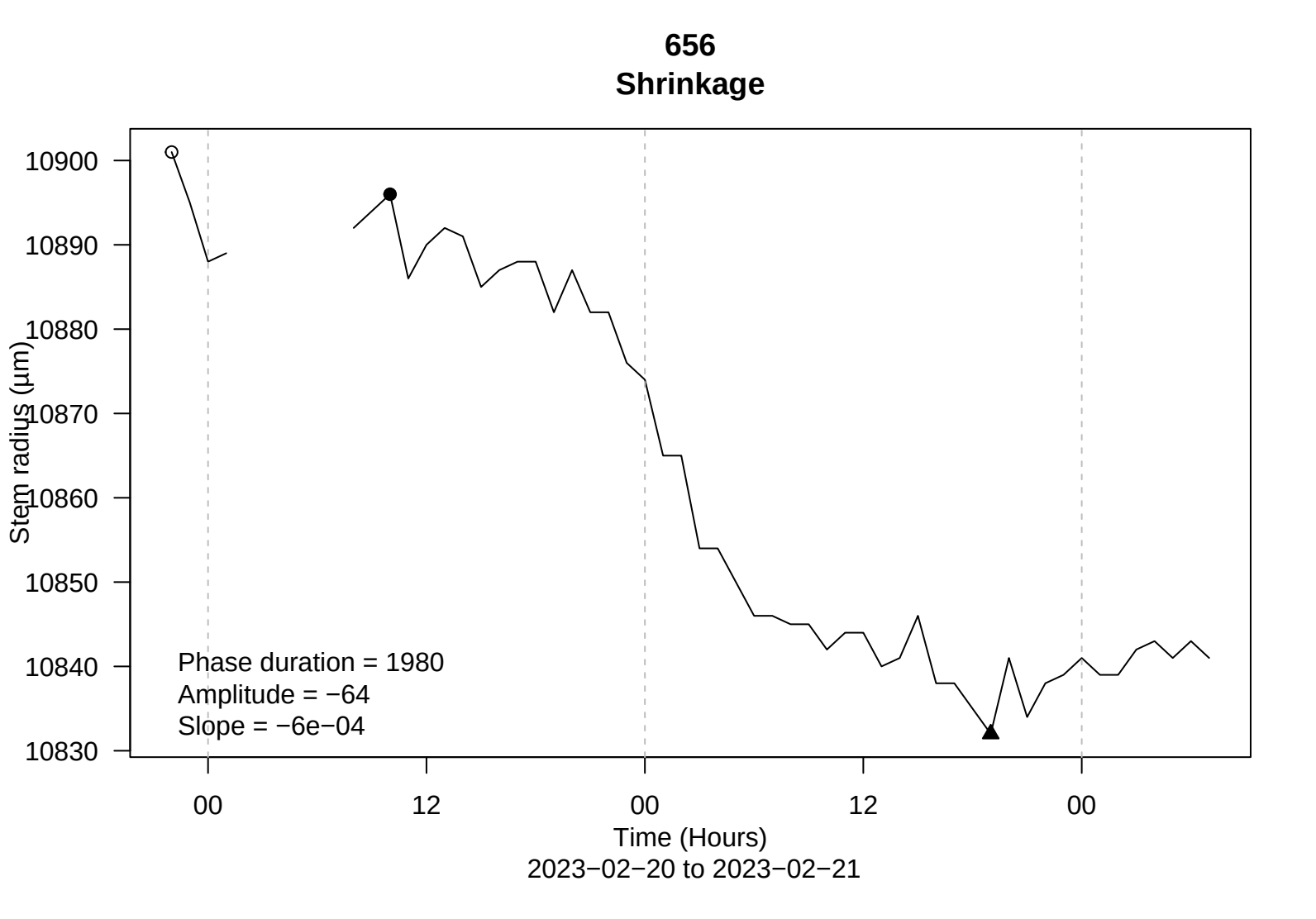

656
Expansion
10940
10935
10930
10925
10920
10915
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−02−17 to 2023−02−18
Phase duration = 1020
Amplitude = 10
Slope = 0

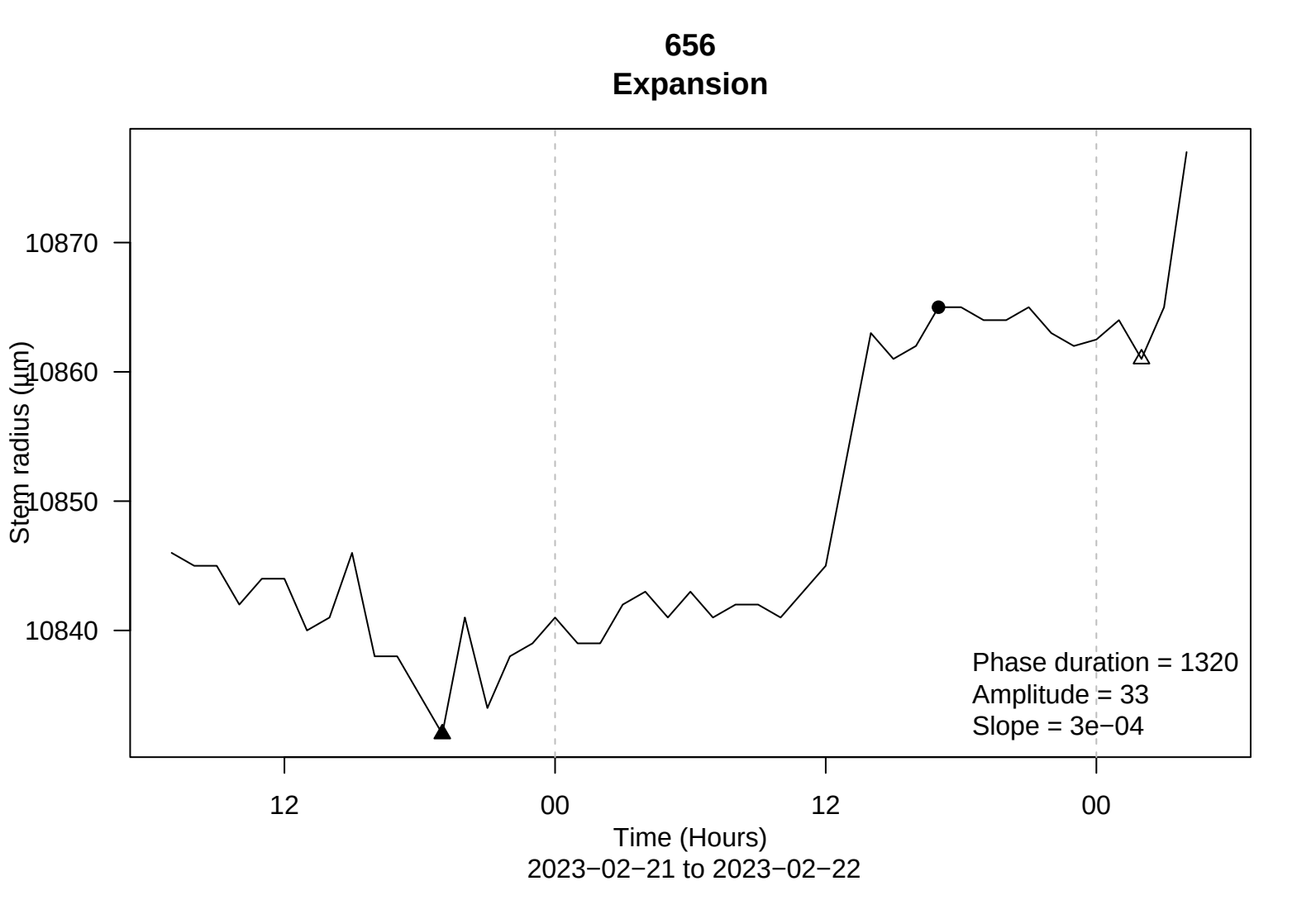

656
Shrinkage
10940
10935
10930
10925
10920
10915
10910
Stem radius (µm)
Phase duration = 420
Amplitude = −26
Slope = −0.001
00
12
00
Time (Hours)
2023−02−18 to 2023−02−18

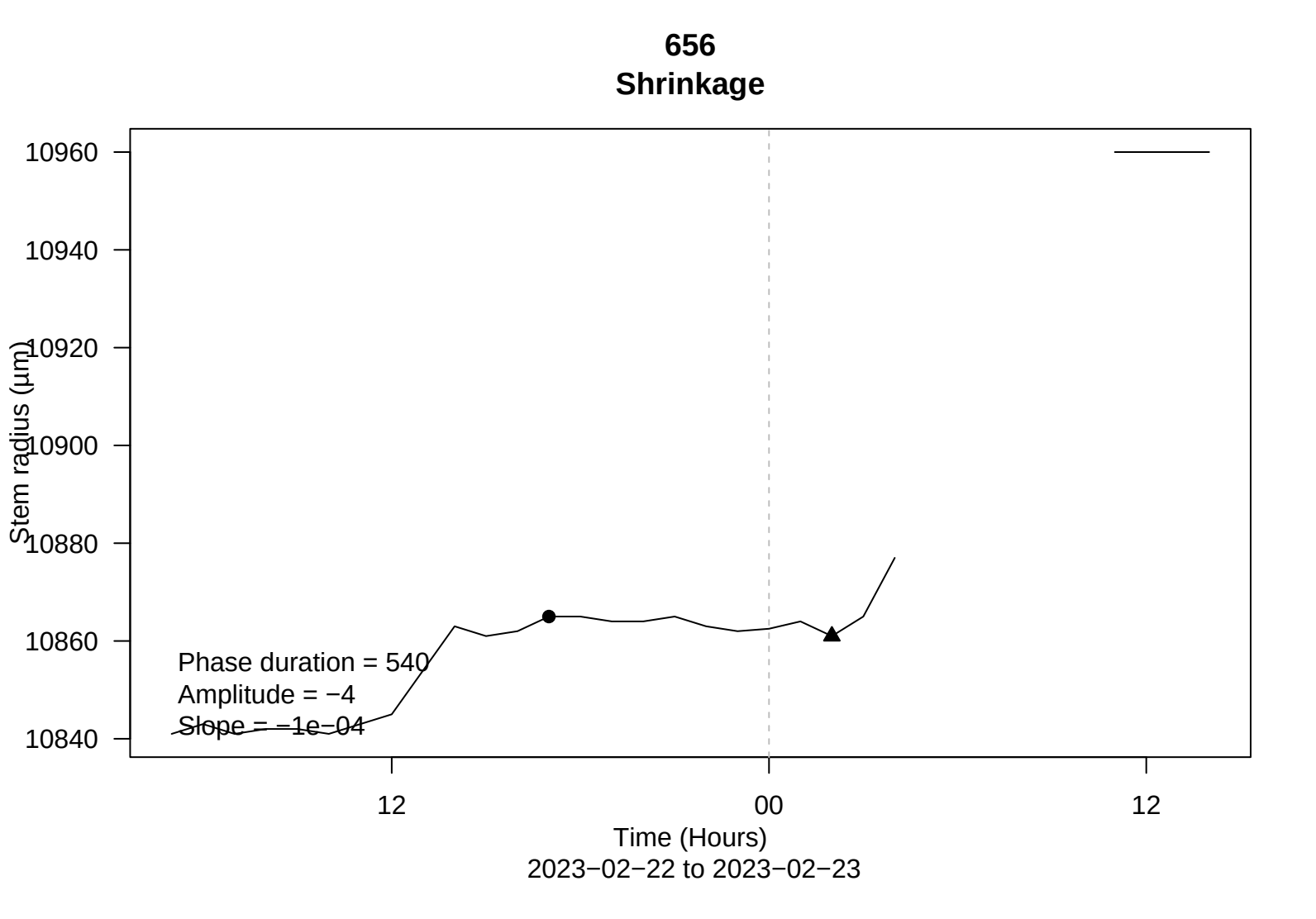

656
Shrinkage
10940
10930
10920
10910
10900
Stem radius (µm)
Phase duration = 360
Amplitude = −15
Slope = −5e−04
12
18
00
06
12
Time (Hours)
2023−02−18 to 2023−02−19

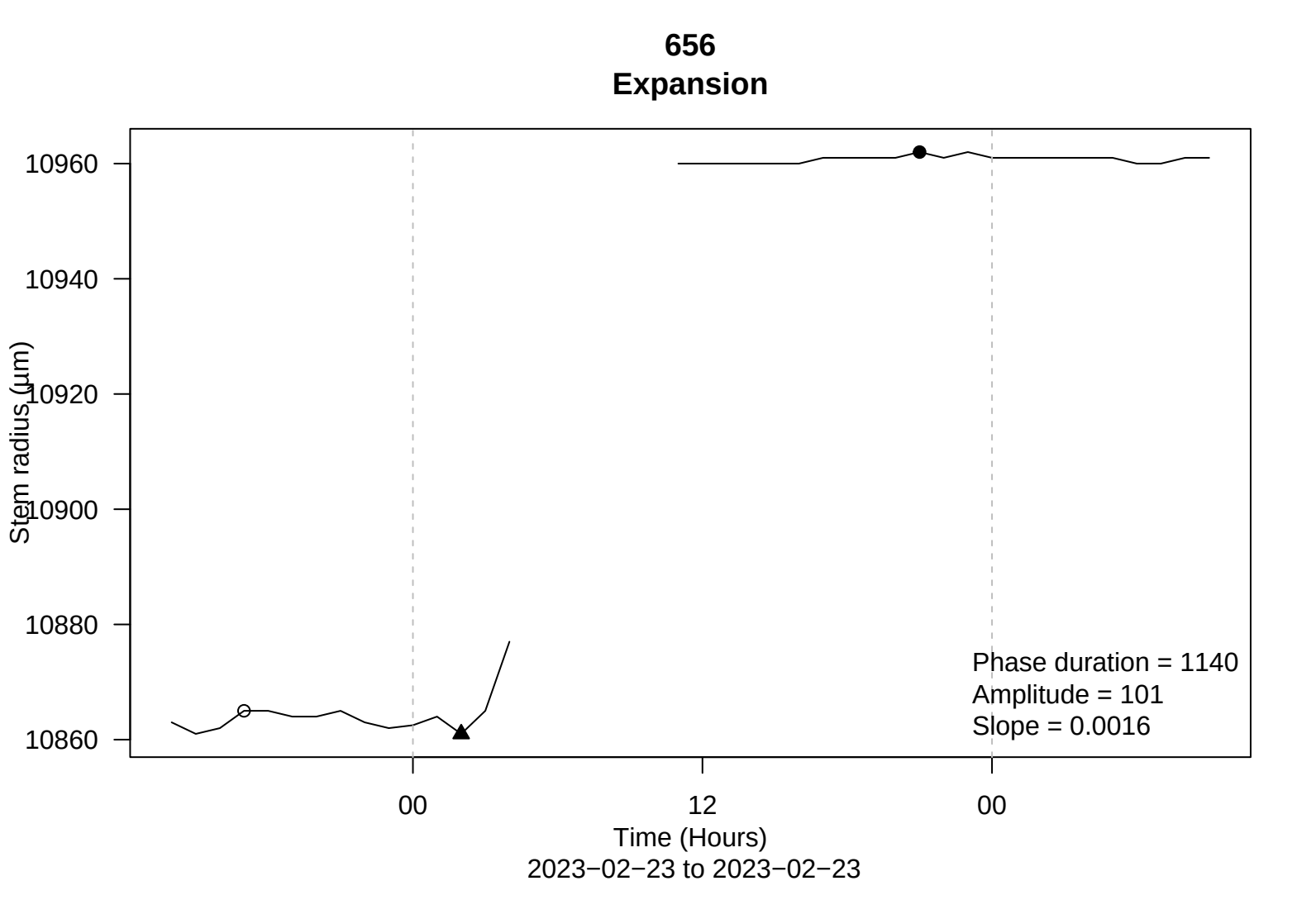

656
Shrinkage
10920
10910
10900
10890
Stem radius (µm)
Phase duration = 780
Amplitude = −29
Slope = −6e−04
00
12
00
Time (Hours)
2023−02−19 to 2023−02−19

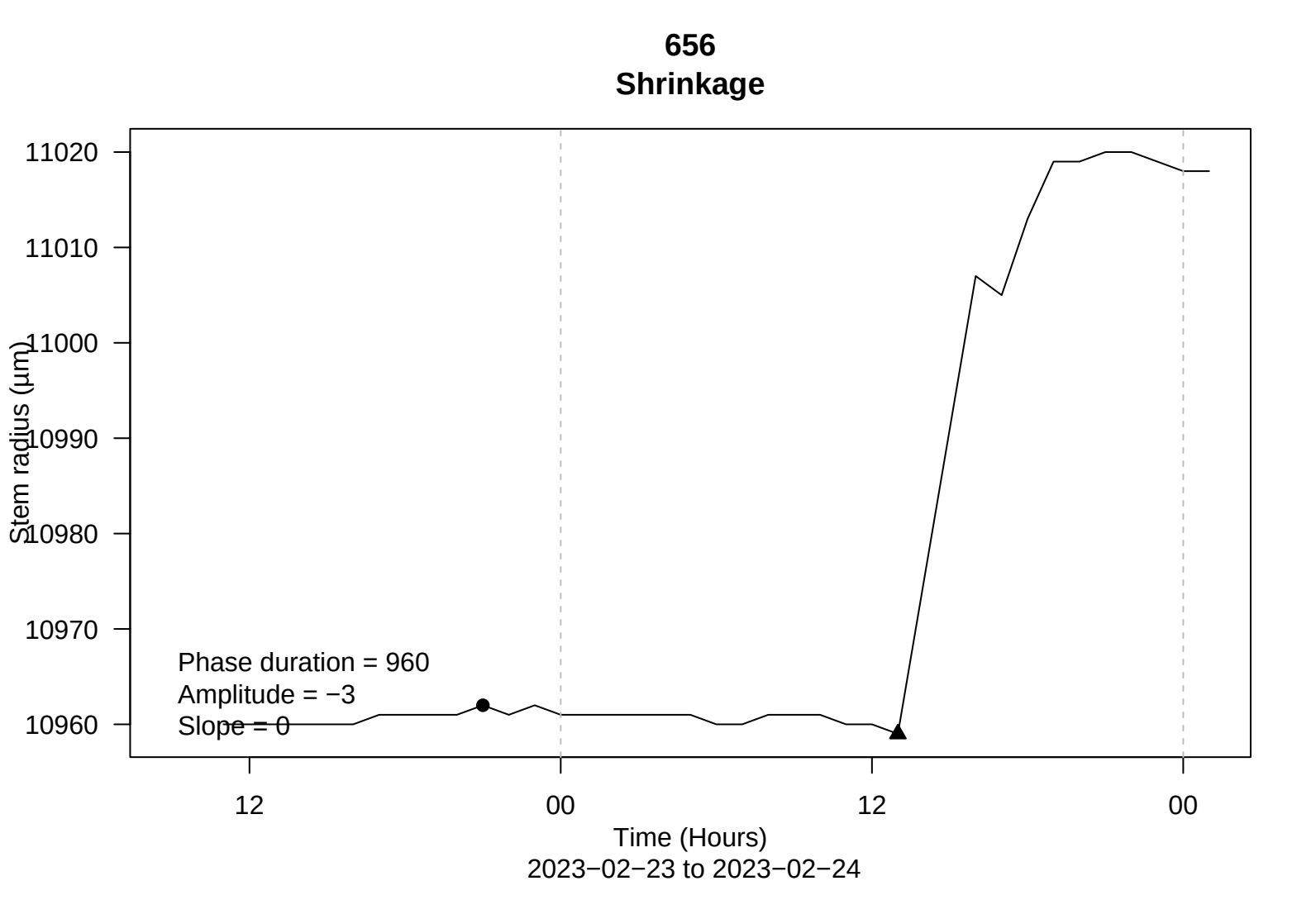

656
Expansion
10915
10910
10905
10900
10895
10890
Stem radius (µm)
06
12
18
00
06
Time (Hours)
2023−02−19 to 2023−02−19
Phase duration = 300
Amplitude = 11
Slope = 2e−04

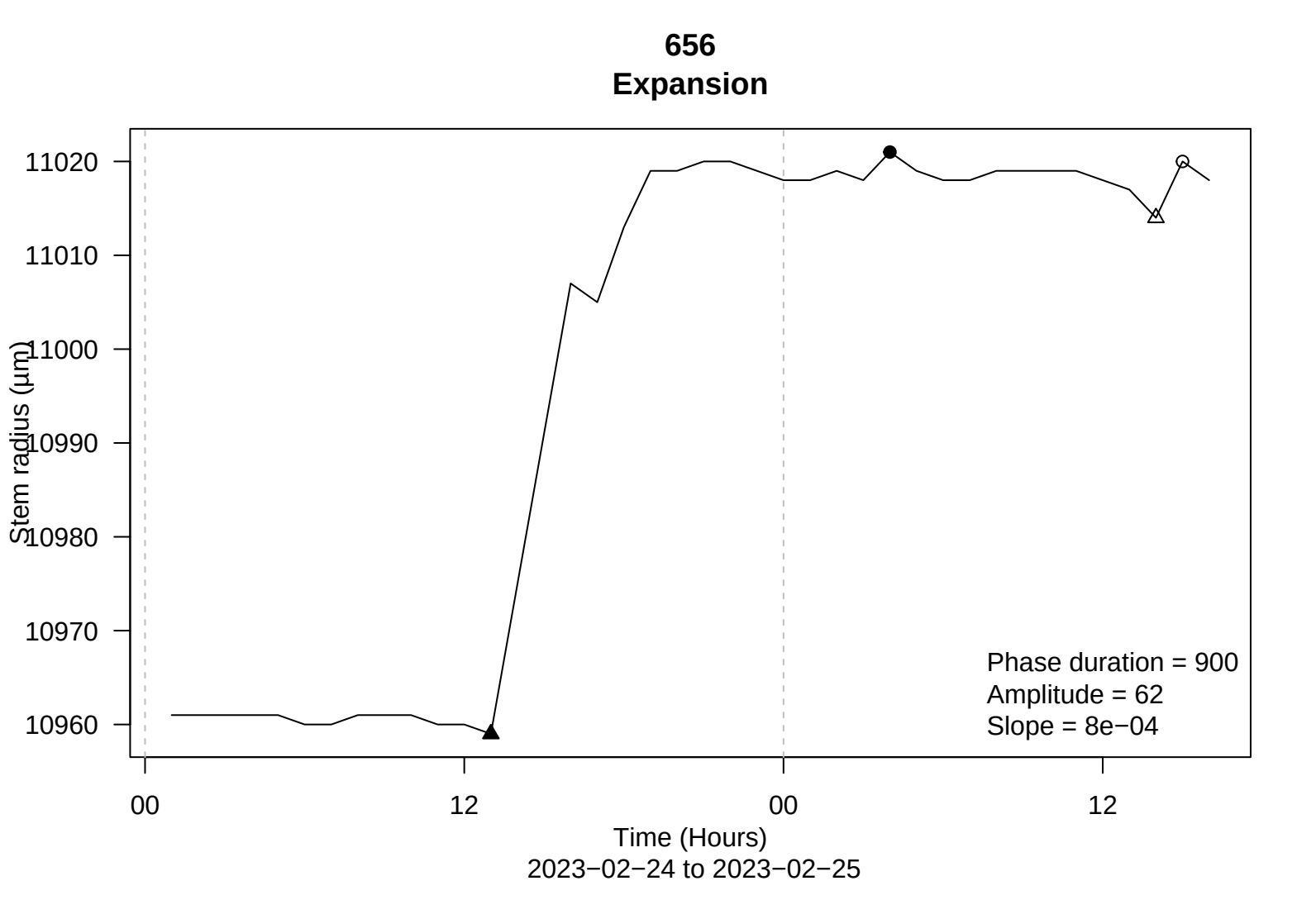

656
Shrinkage
10900
10890
10880
10870
10860
10850
10840
10830
Stem radius (µm)
Phase duration = 1980
Amplitude = −64
Slope = −6e−04
00
12
00
12
00
Time (Hours)
2023−02−20 to 2023−02−21

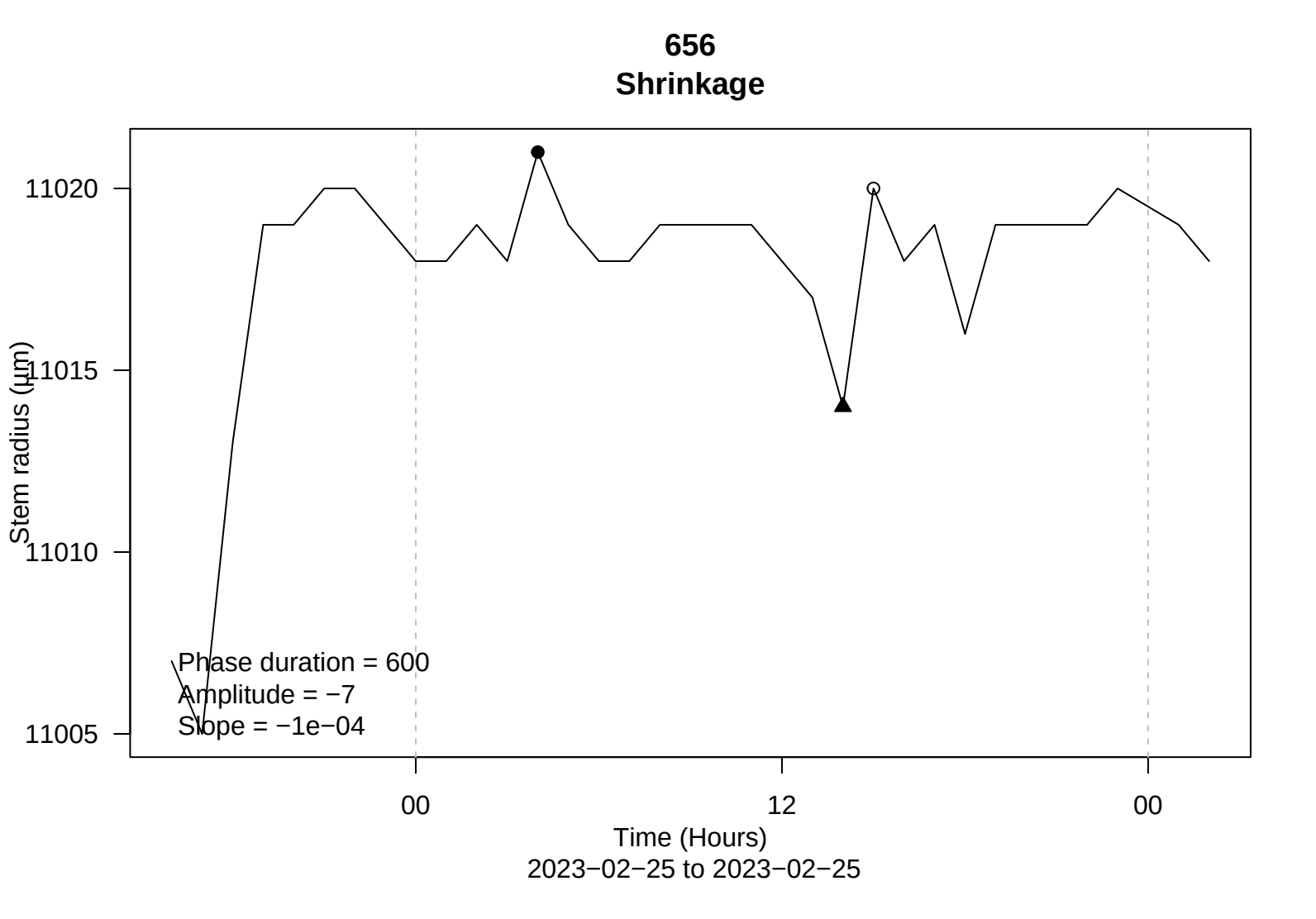

656
Expansion
10870
10860
10850
10840
Stem radius (µm)
Phase duration = 1320
Amplitude = 33
Slope = 3e−04
12
00
12
00
Time (Hours)
2023−02−21 to 2023−02−22

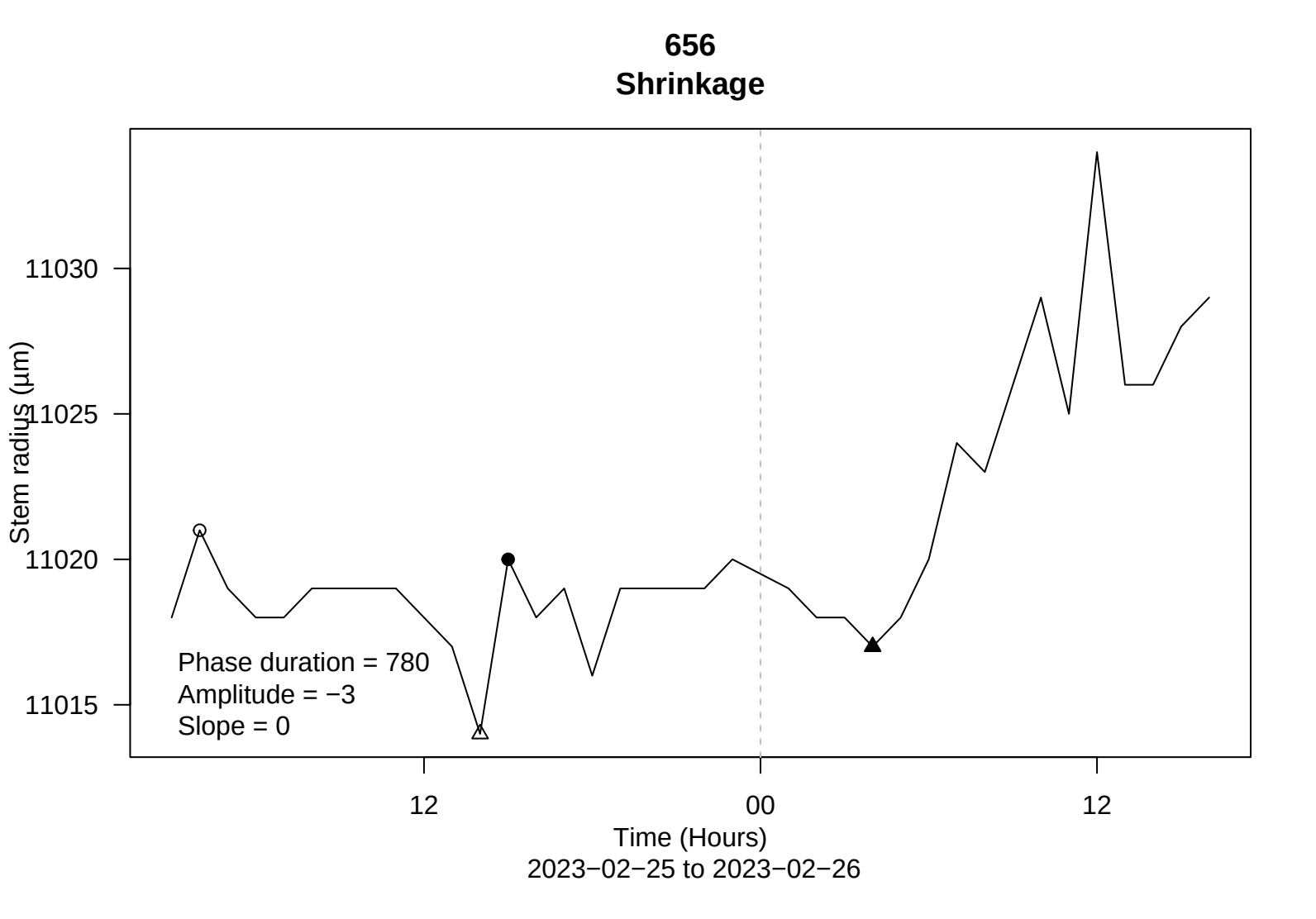

656
Shrinkage
10960
10940
10920
10900
10880
10860
10840
Stem radius (µm)
Phase duration = 540
Amplitude = −4
Slope = −1e−04
12
00
12
Time (Hours)
2023−02−22 to 2023−02−23

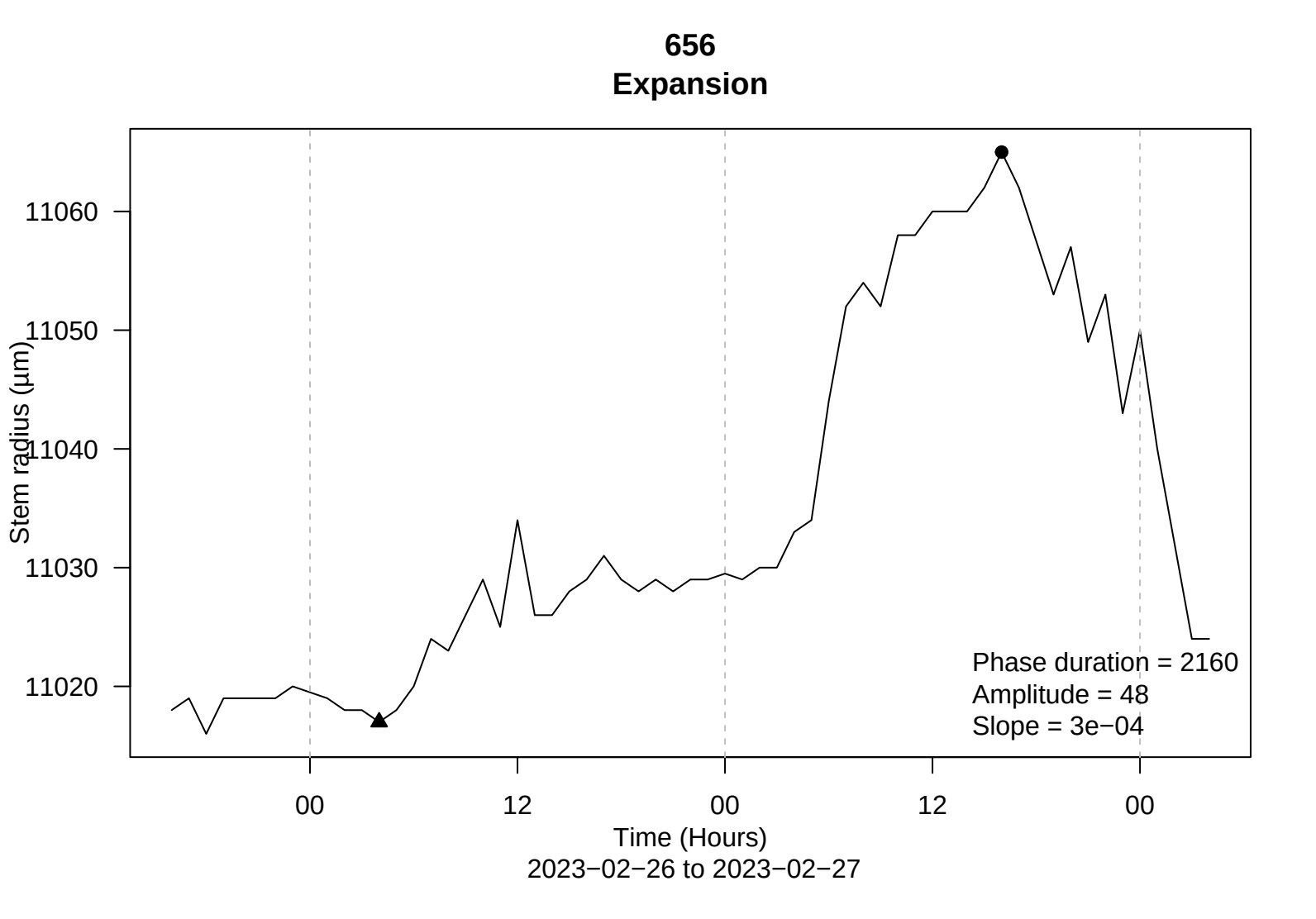

656
Expansion
10960
10940
10920
10900
10880
10860
Stem radius (µm)
Phase duration = 1140
Amplitude = 101
Slope = 0.0016
00
12
00
Time (Hours)
2023−02−23 to 2023−02−23

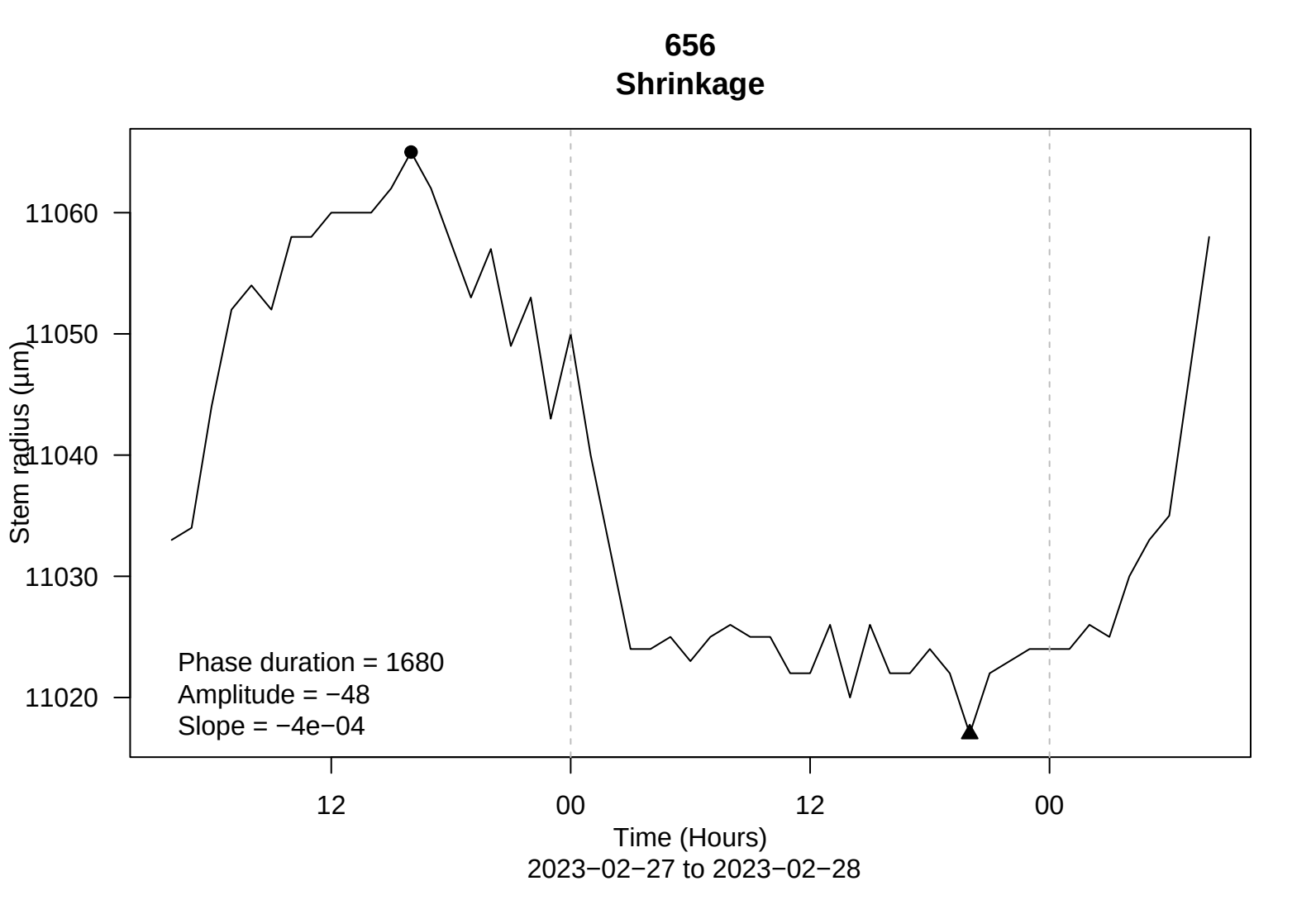

656
Shrinkage
11020
11010
11000
10990
10980
10970
10960
Stem radius (µm)
Phase duration = 960
Amplitude = −3
Slope = 0
12
00
12
00
Time (Hours)
2023−02−23 to 2023−02−24

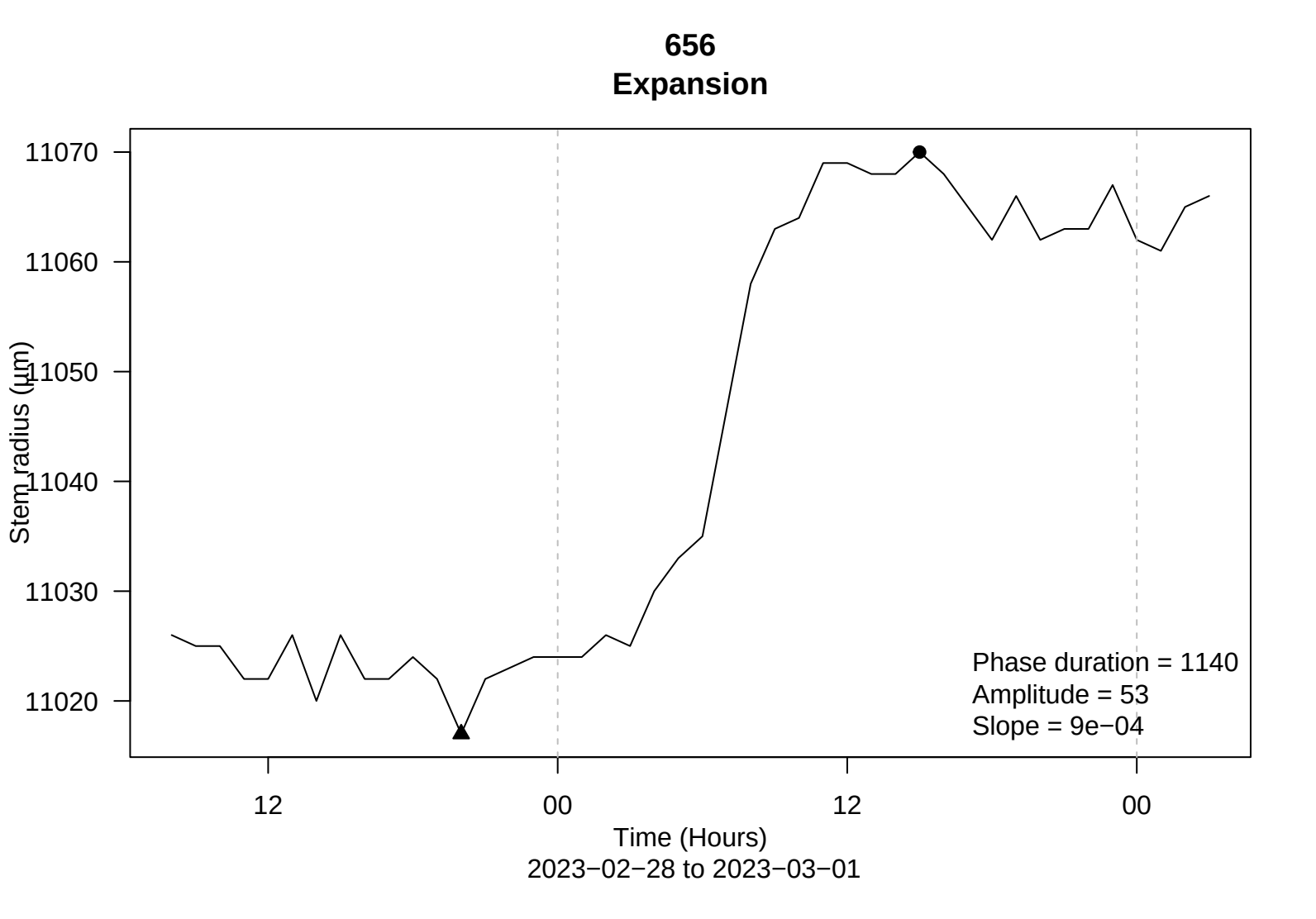

656
Expansion
11020
11010
11000
10990
10980
10970
10960
Stem radius (µm)
Phase duration = 900
Amplitude = 62
Slope = 8e−04
00
12
00
12
Time (Hours)
2023−02−24 to 2023−02−25

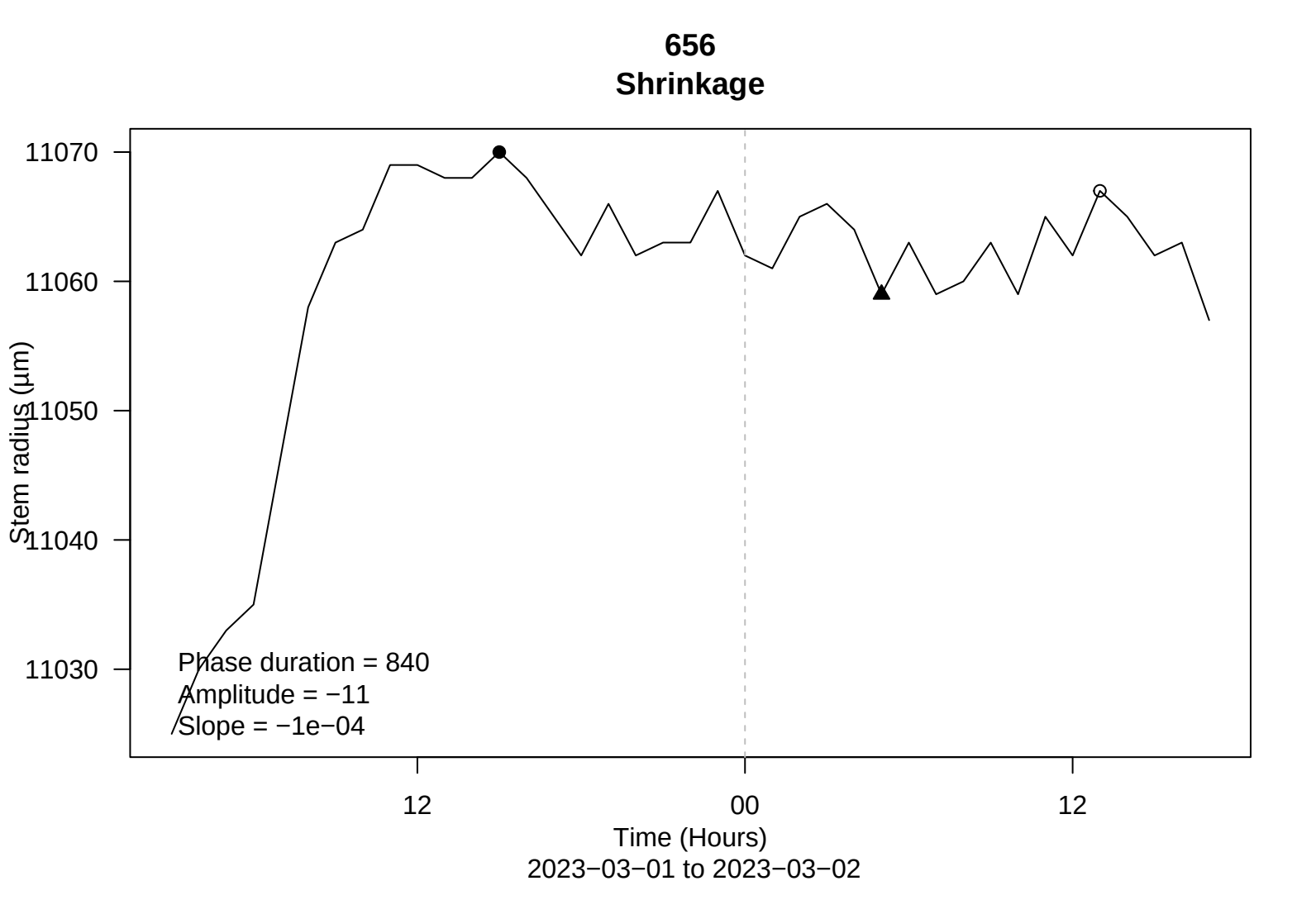

656
Shrinkage
11020
11015
11010
11005
Stem radius (µm)
Phase duration = 600
Amplitude = −7
Slope = −1e−04
00
12
00
Time (Hours)
2023−02−25 to 2023−02−25

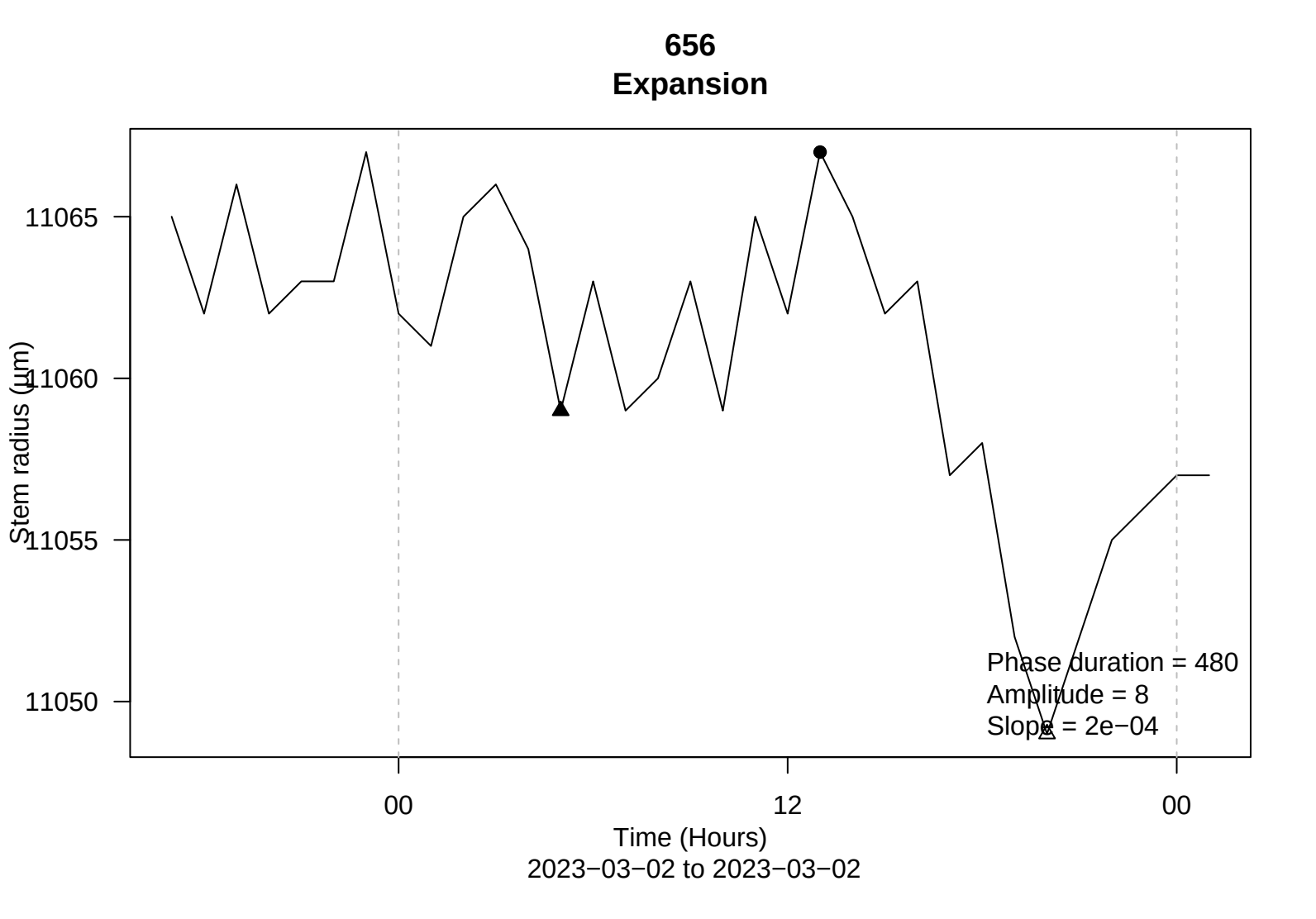

656
Shrinkage
11030
11025
11020
11015
Stem radius (µm)
Phase duration = 780
Amplitude = −3
Slope = 0
12
00
12
Time (Hours)
2023−02−25 to 2023−02−26

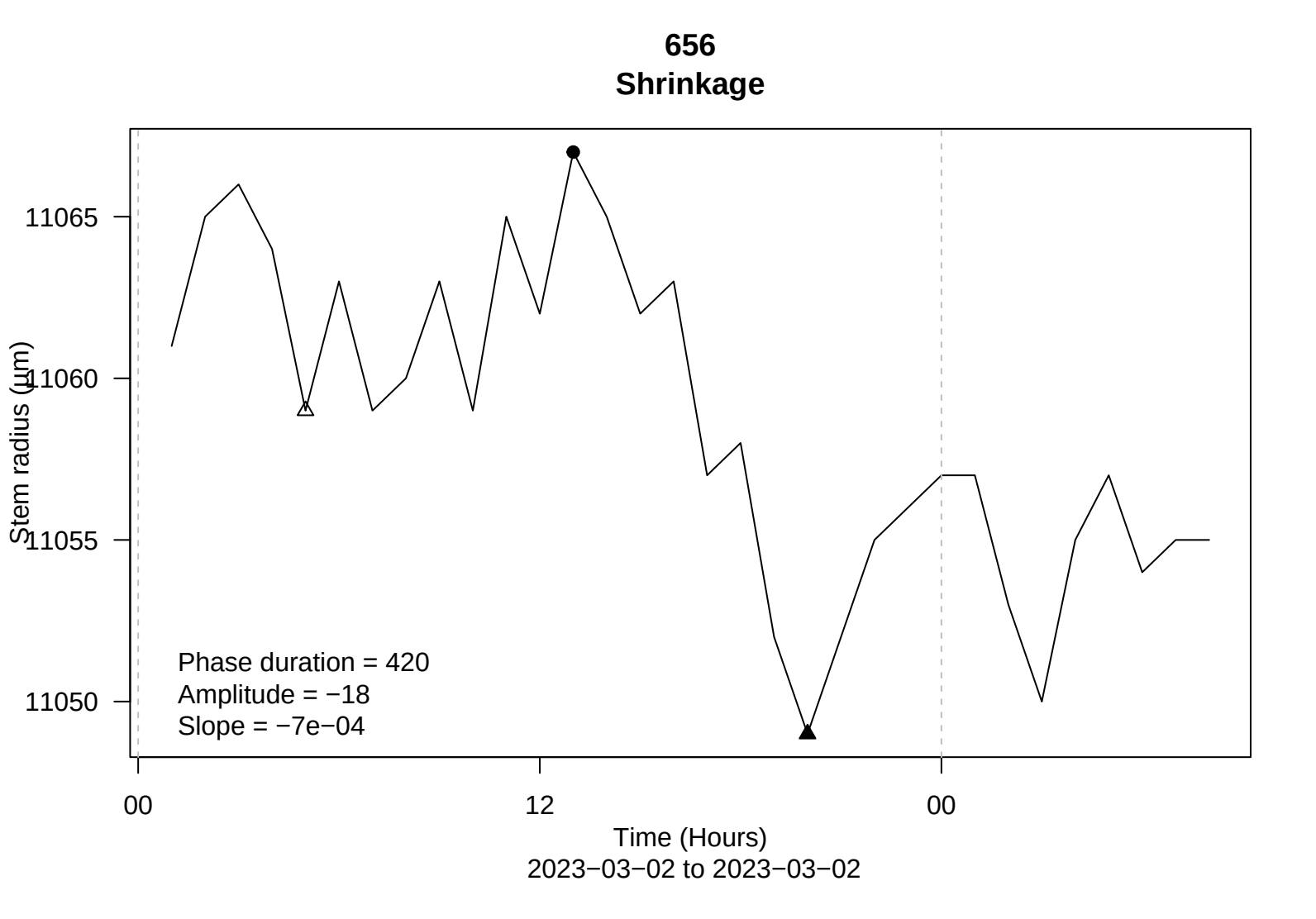

656
Expansion
11060
11050
11040
11030
11020
Stem radius (µm)
00
12
00
12
00
Time (Hours)
2023−02−26 to 2023−02−27
Phase duration = 2160
Amplitude = 48
Slope = 3e−04

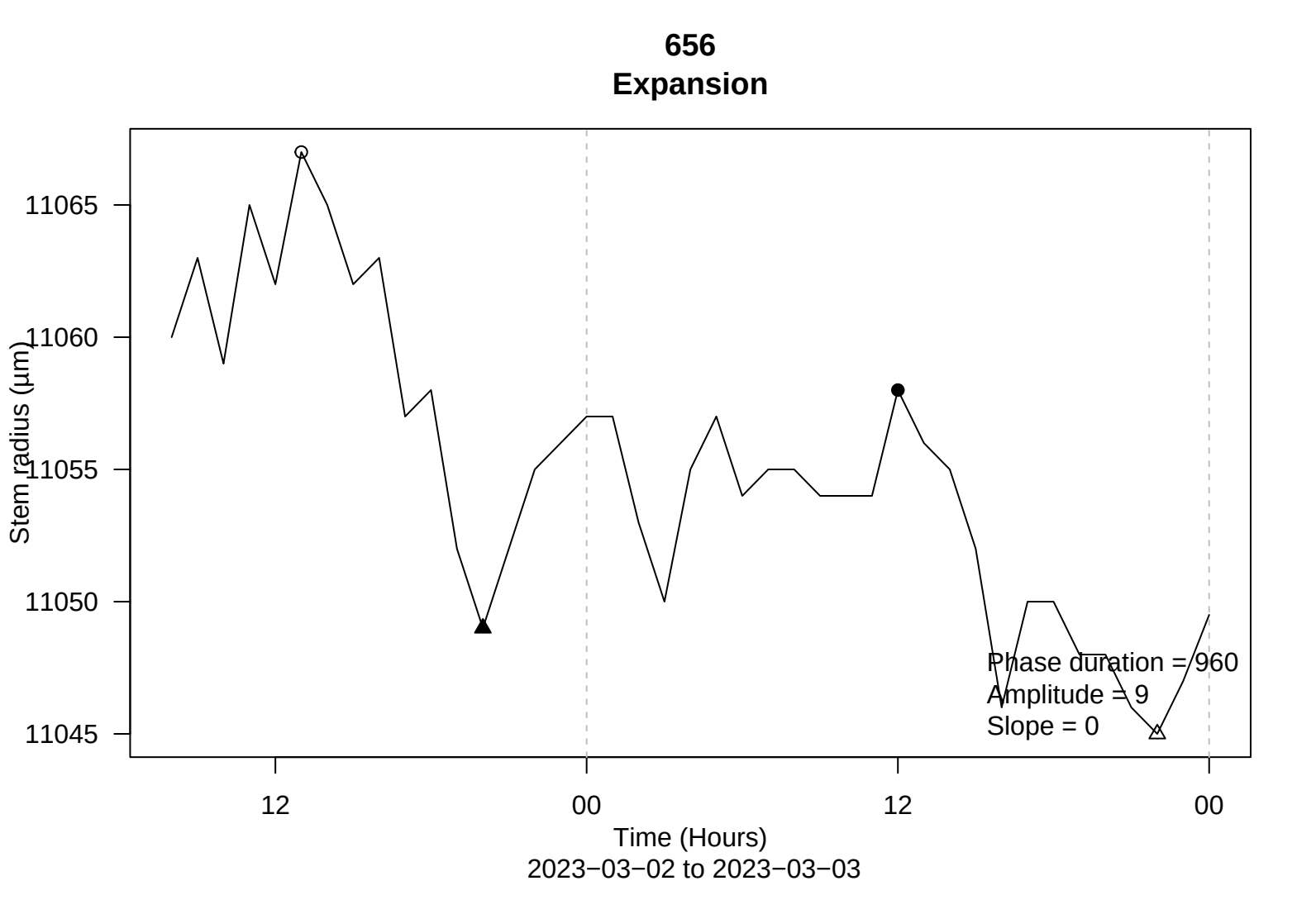

656
Shrinkage
11060
11050
11040
11030
11020
Stem radius (µm)
Phase duration = 1680
Amplitude = −48
Slope = −4e−04
12
00
12
00
Time (Hours)
2023−02−27 to 2023−02−28

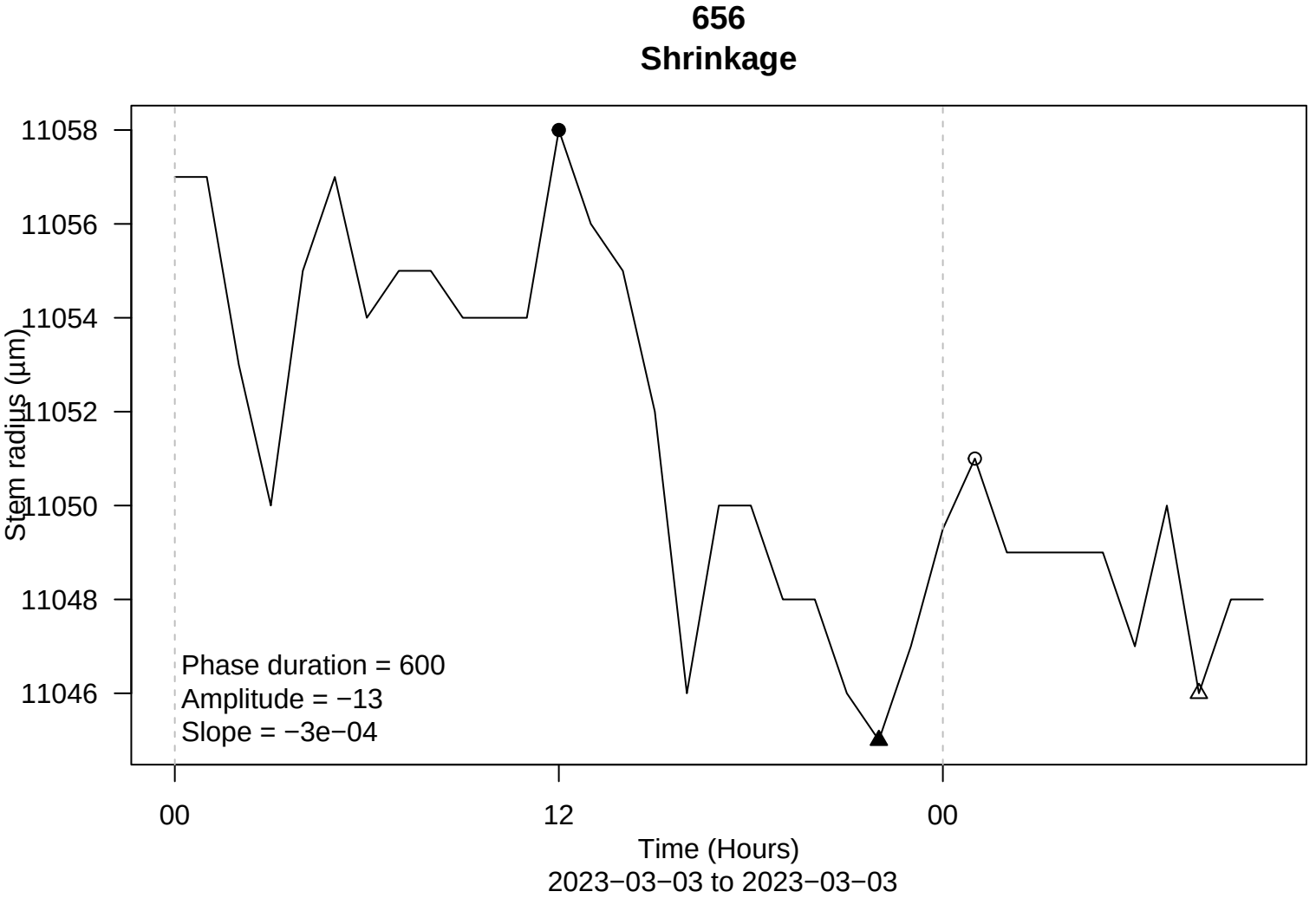

656
Expansion
11070
11060
11050
11040
11030
11020
Stem radius (µm)
Phase duration = 1140
Amplitude = 53
Slope = 9e−04
12
00
12
00
Time (Hours)
2023−02−28 to 2023−03−01

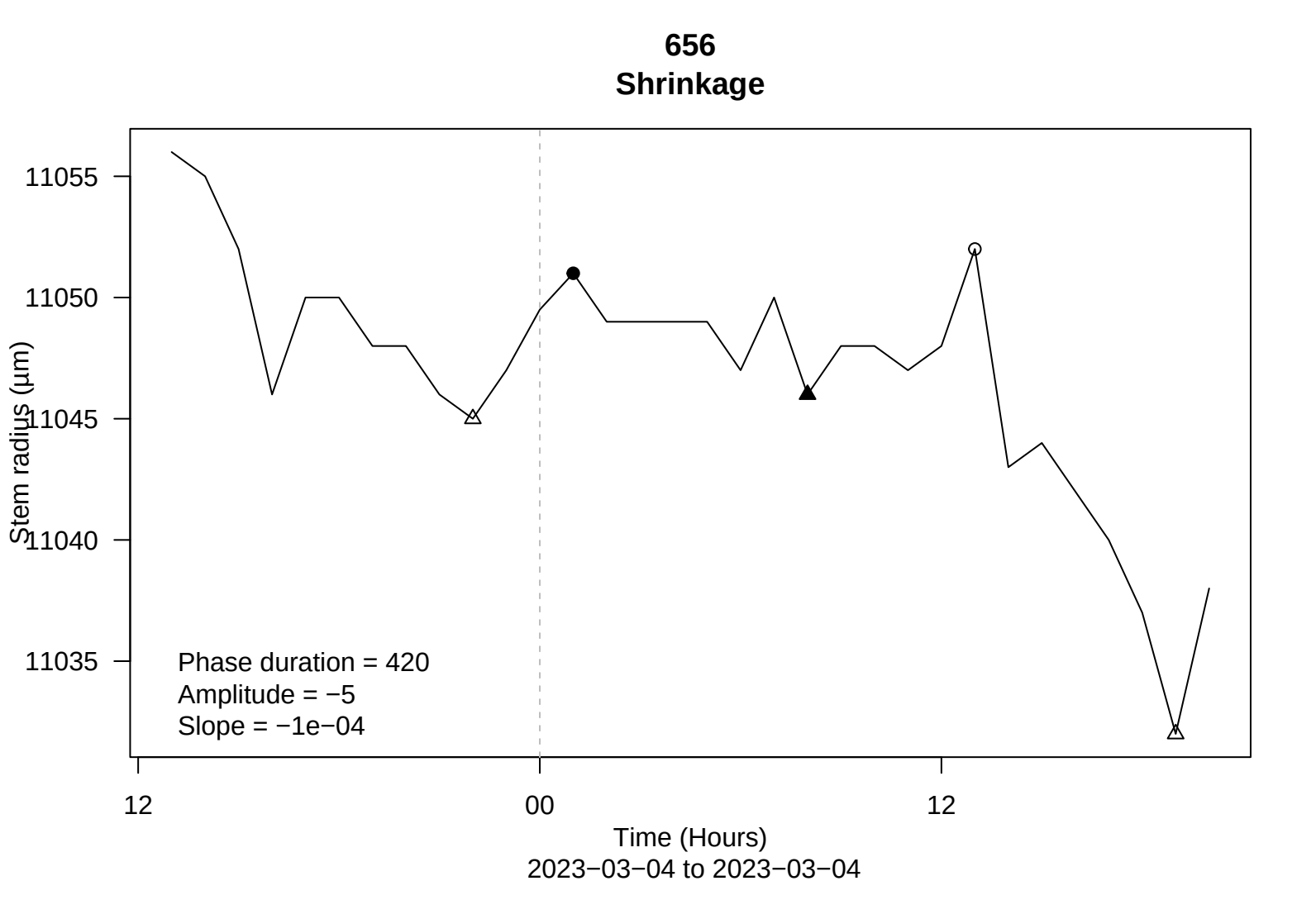

656
Shrinkage
11070
11060
11050
11040
11030
Stem radius (µm)
Phase duration = 840
Amplitude = −11
Slope = −1e−04
12
00
12
Time (Hours)
2023−03−01 to 2023−03−02

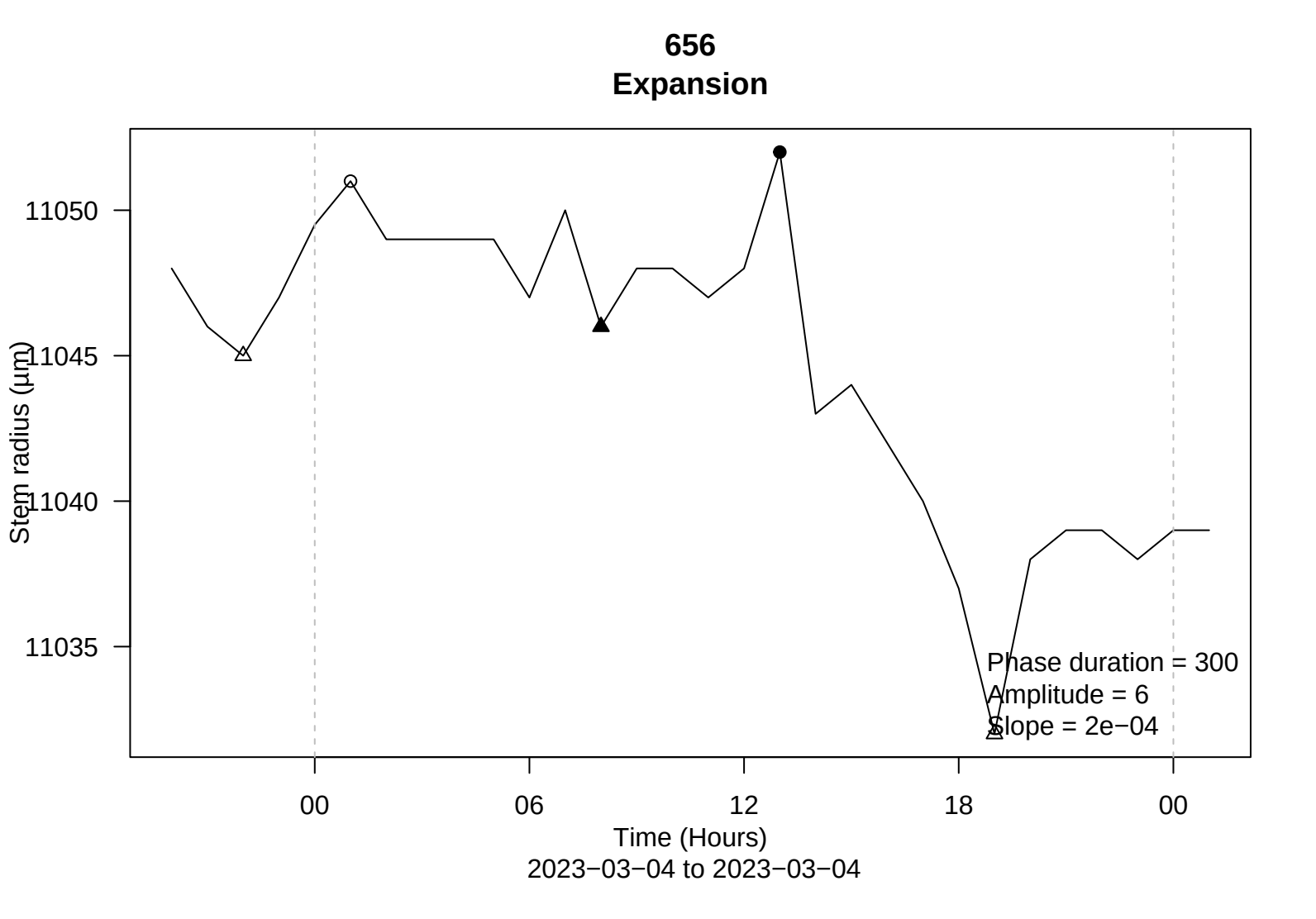

656
Expansion
11065
11060
11055
11050
Stem radius (µm)
Phase duration = 480
Amplitude = 8
Slope = 2e−04
00
12
00
Time (Hours)
2023−03−02 to 2023−03−02

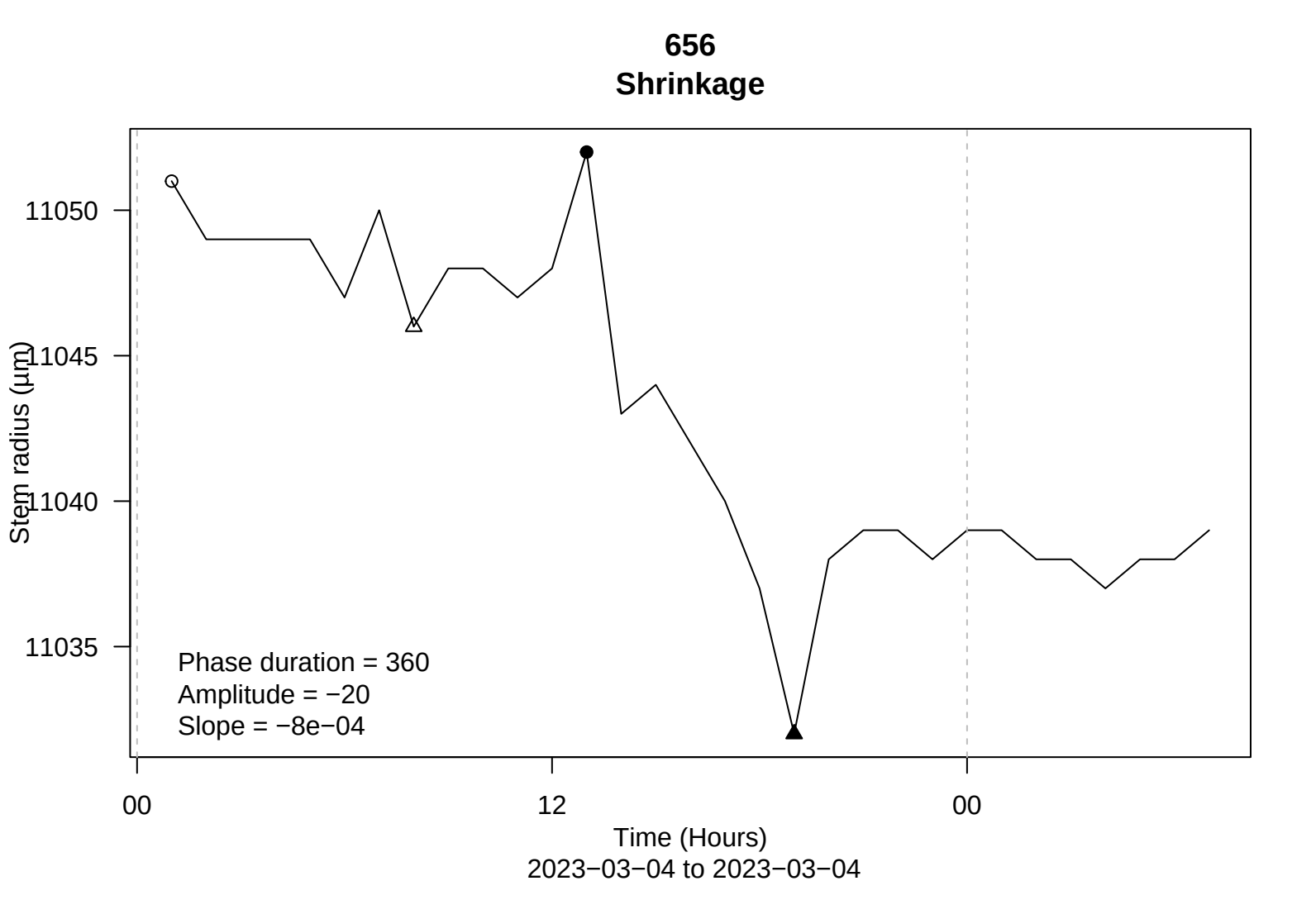

656
Shrinkage
11065
11060
11055
11050
Stem radius (µm)
Phase duration = 420
Amplitude = −18
Slope = −7e−04
00
12
00
Time (Hours)
2023−03−02 to 2023−03−02

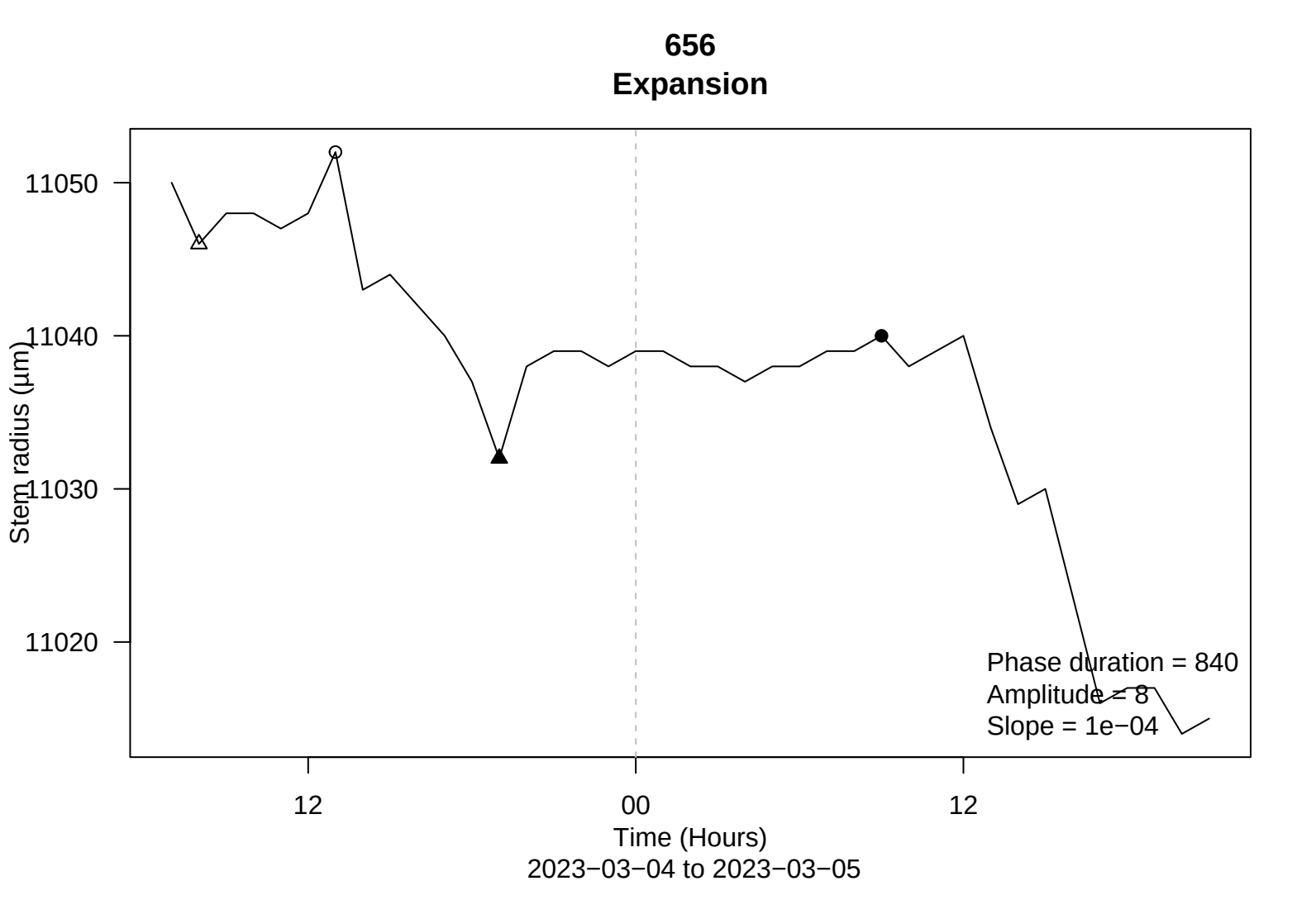

656
Expansion
11065
11060
11055
11050
11045
Stem radius (µm)
Phase duration = 960
Amplitude = 9
Slope = 0
12
00
12
00
Time (Hours)
2023−03−02 to 2023−03−03

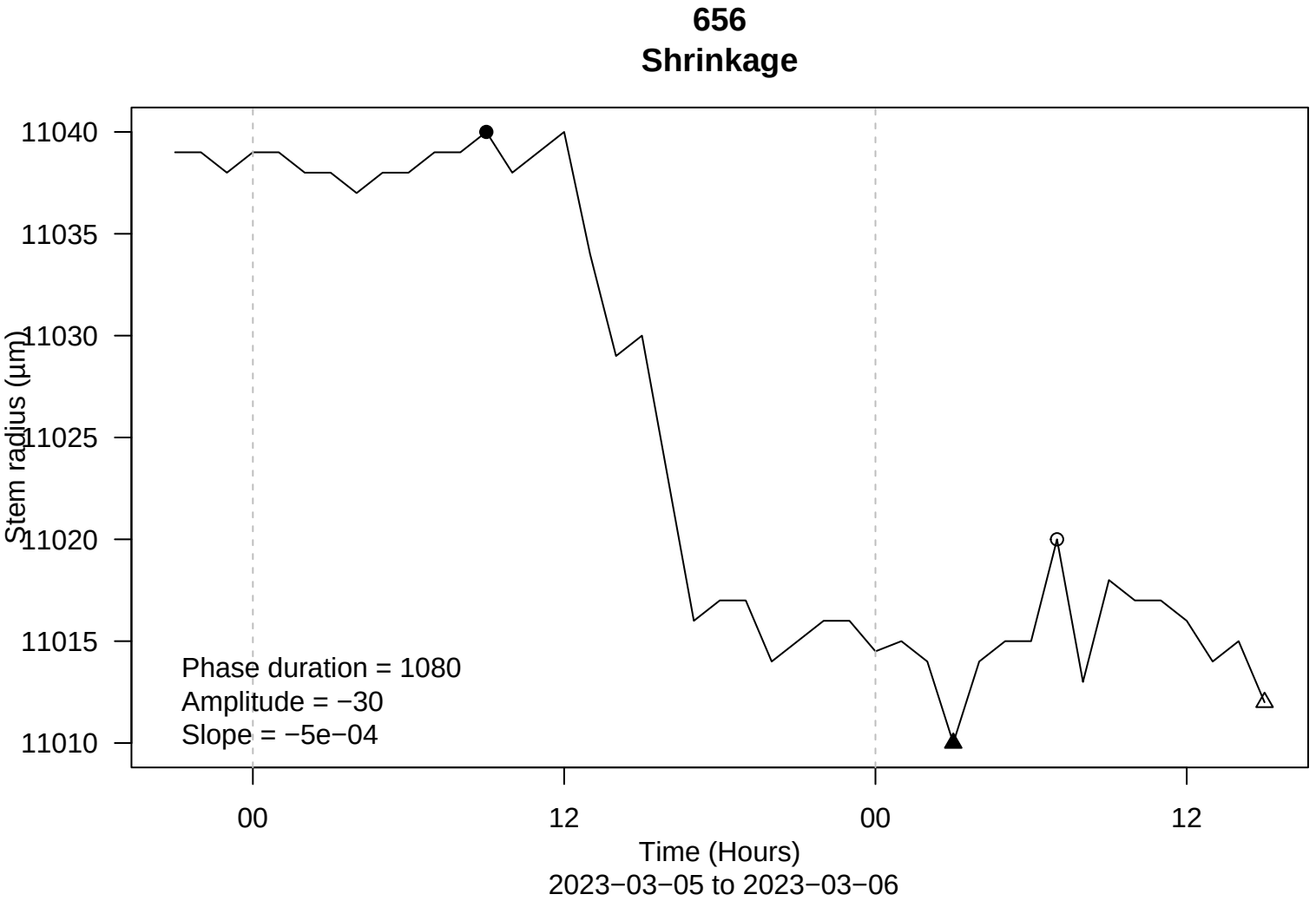

656
Shrinkage
11058
11056
11054
11052
11050
11048
11046
Stem radius (µm)
Phase duration = 600
Amplitude = −13
Slope = −3e−04
00
12
00
Time (Hours)
2023−03−03 to 2023−03−03

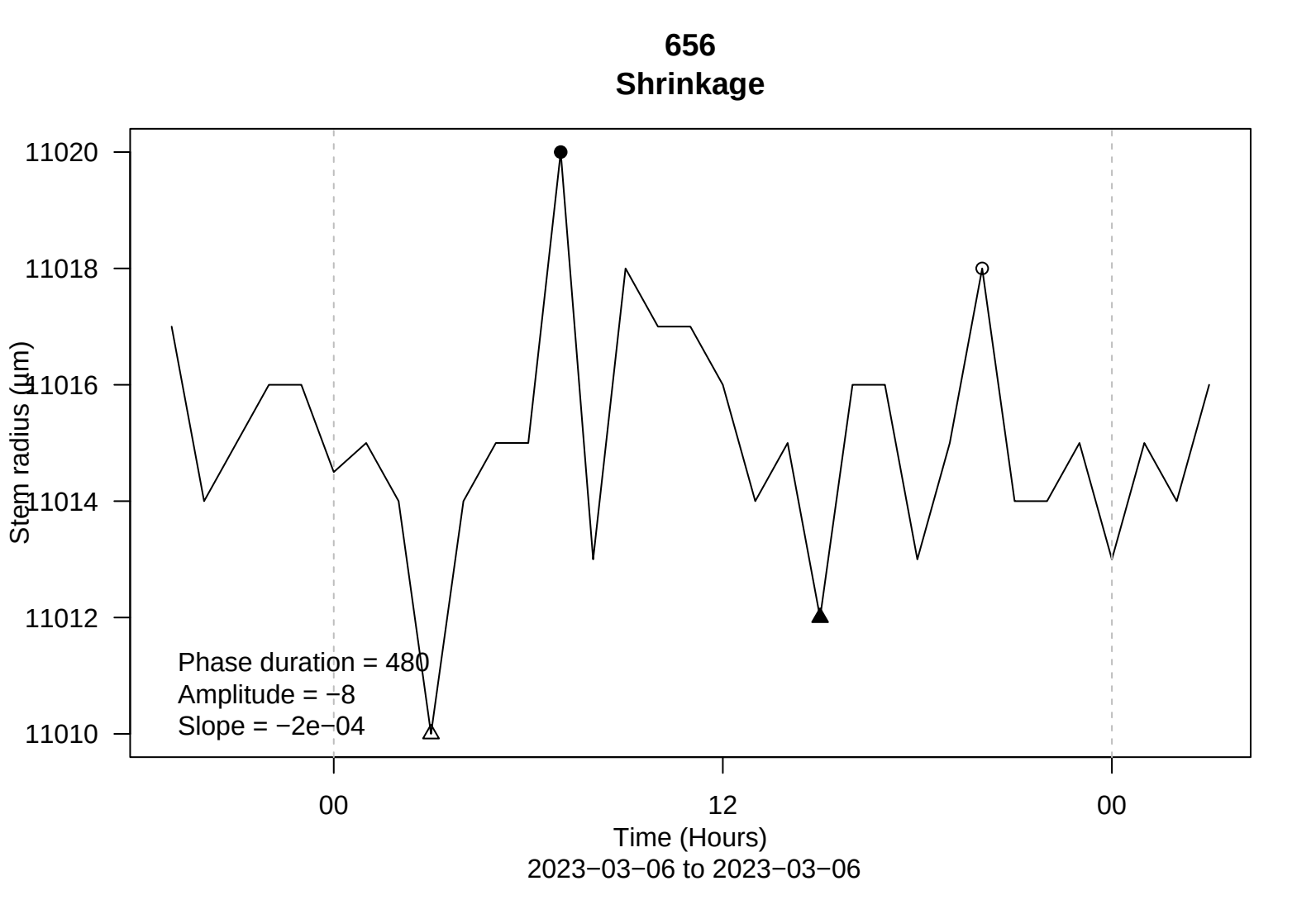

656
Shrinkage
11055
11050
11045
11040
11035
Stem radius (µm)
Phase duration = 420
Amplitude = −5
Slope = −1e−04
12
00
12
Time (Hours)
2023−03−04 to 2023−03−04

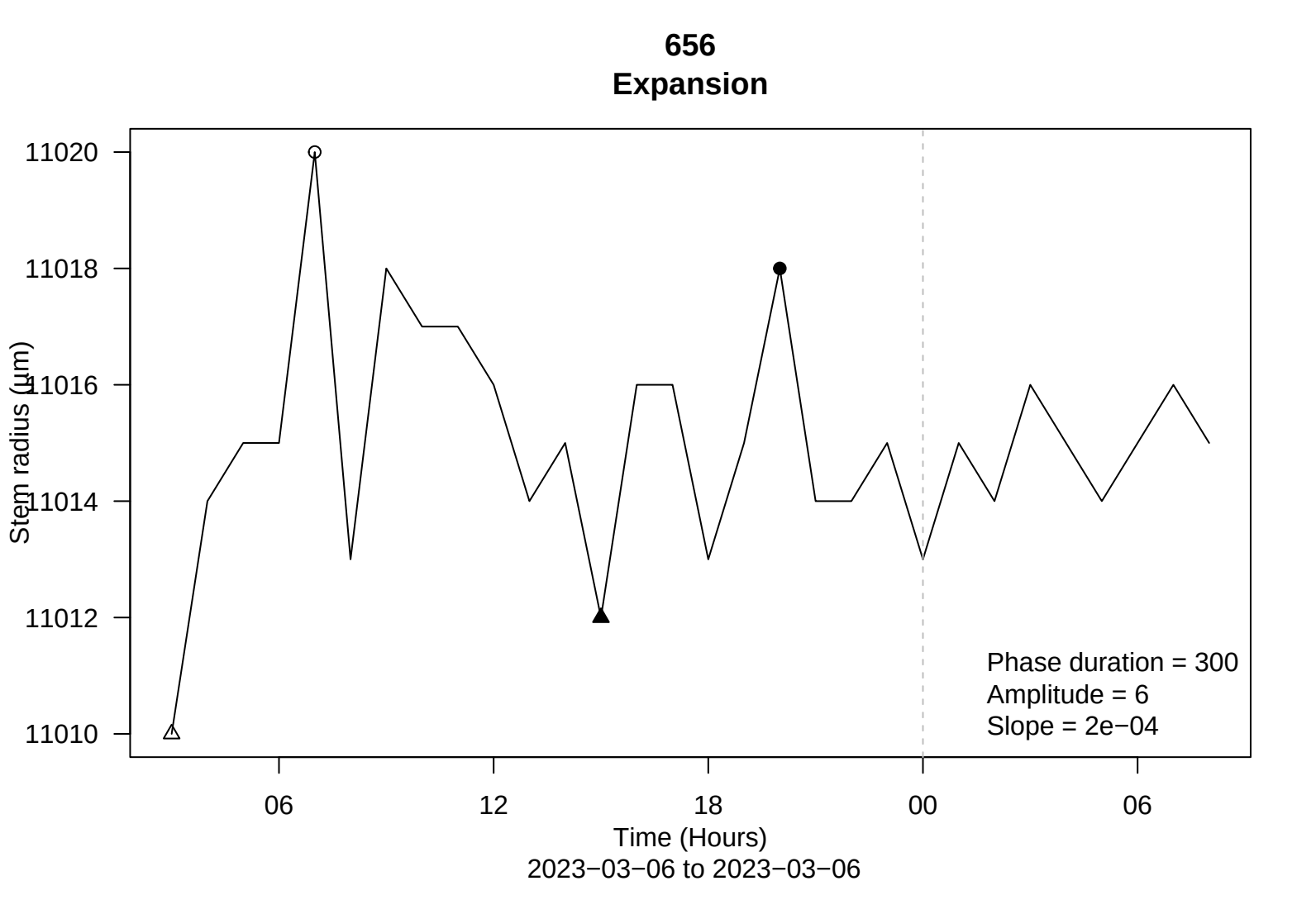

656
Expansion
11050
11045
11040
11035
Stem radius (µm)
Phase duration = 300
Amplitude = 6
Slope = 2e−04
00
06
12
18
00
Time (Hours)
2023−03−04 to 2023−03−04

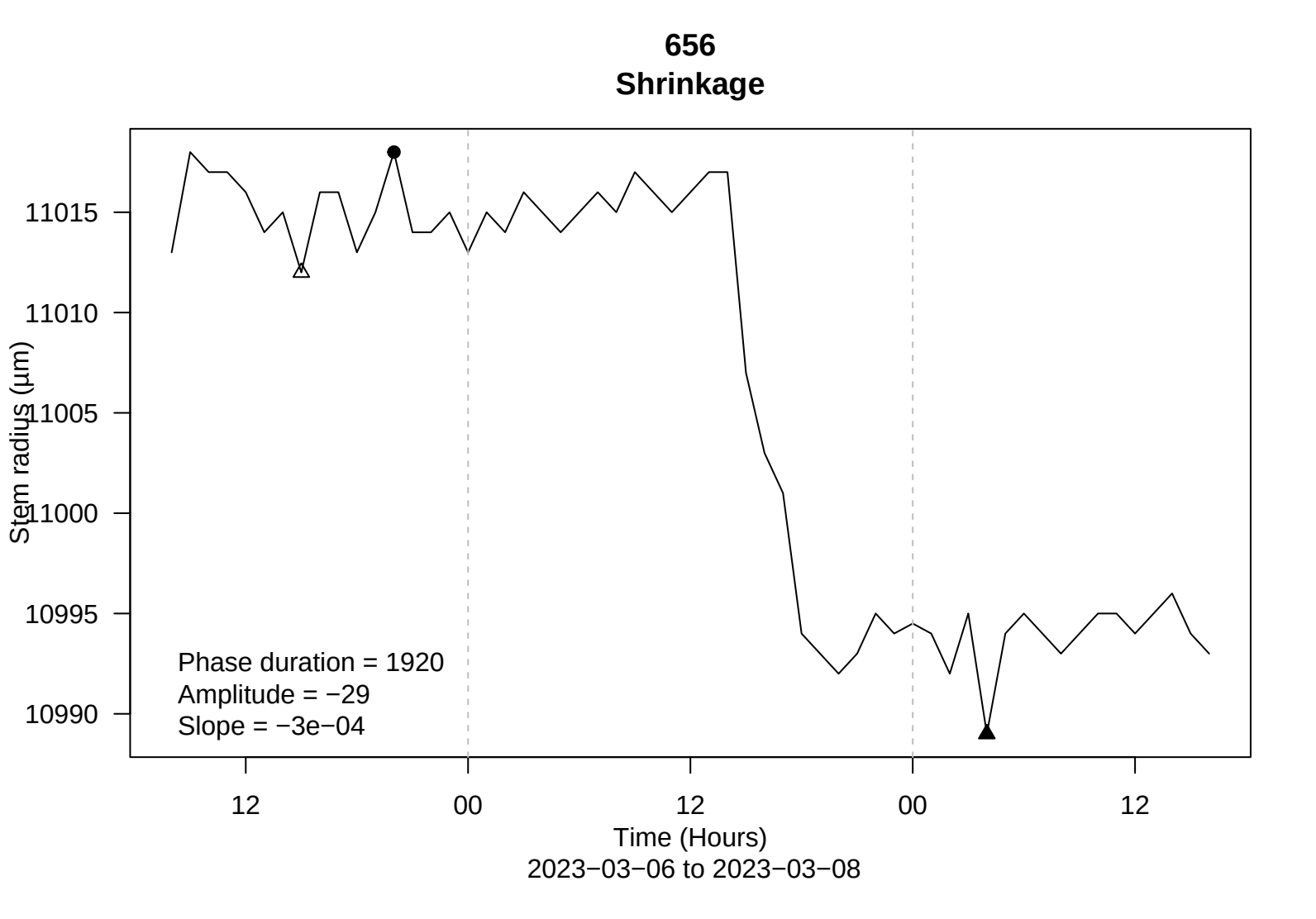

656
Shrinkage
11050
11045
11040
11035
Stem radius (µm)
Phase duration = 360
Amplitude = −20
Slope = −8e−04
00
12
00
Time (Hours)
2023−03−04 to 2023−03−04

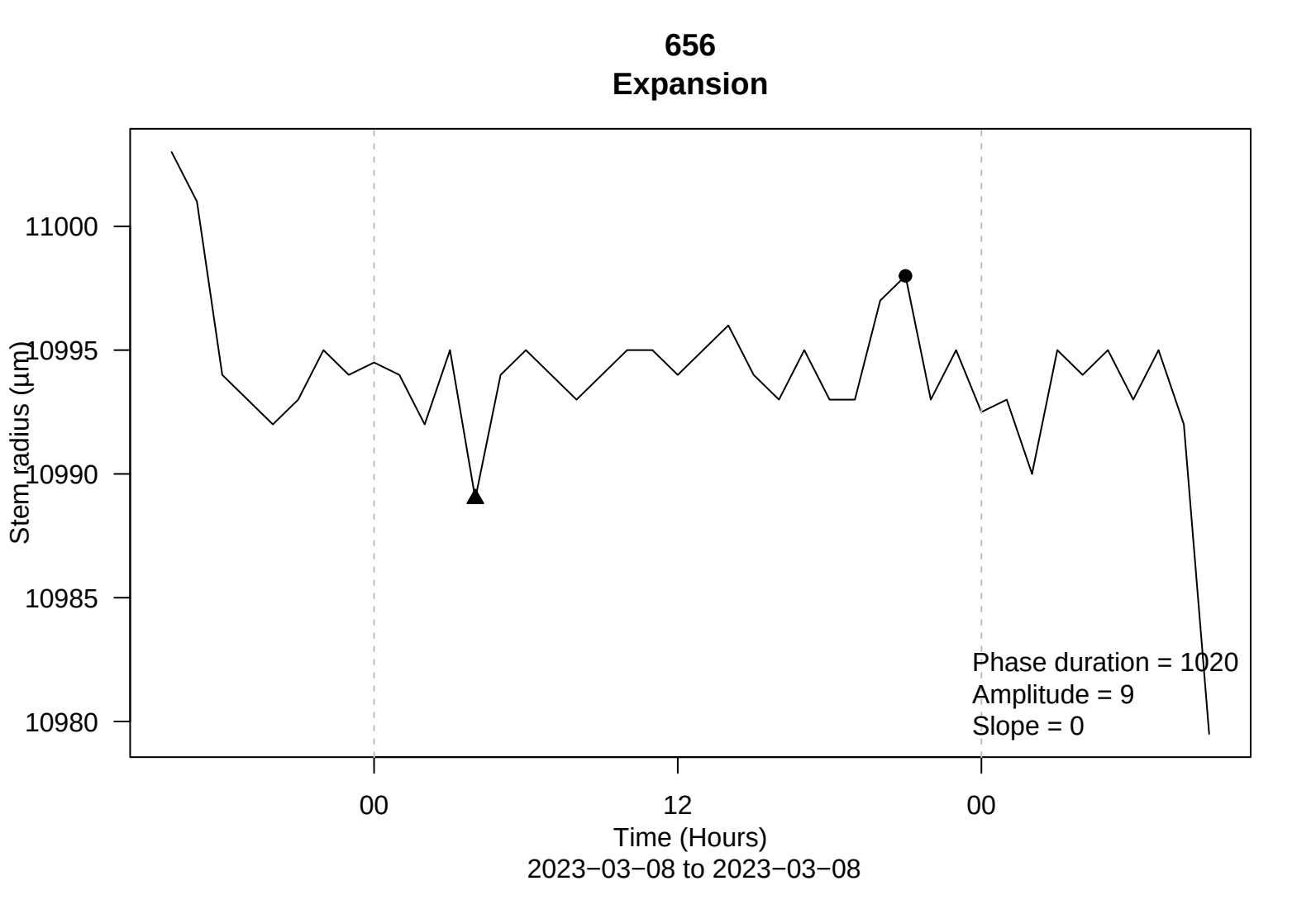

656
Expansion
11050
11040
11030
11020
Stem radius (µm)
12
00
12
Time (Hours)
2023−03−04 to 2023−03−05
Phase duration = 840
Amplitude = 8
Slope = 1e−04

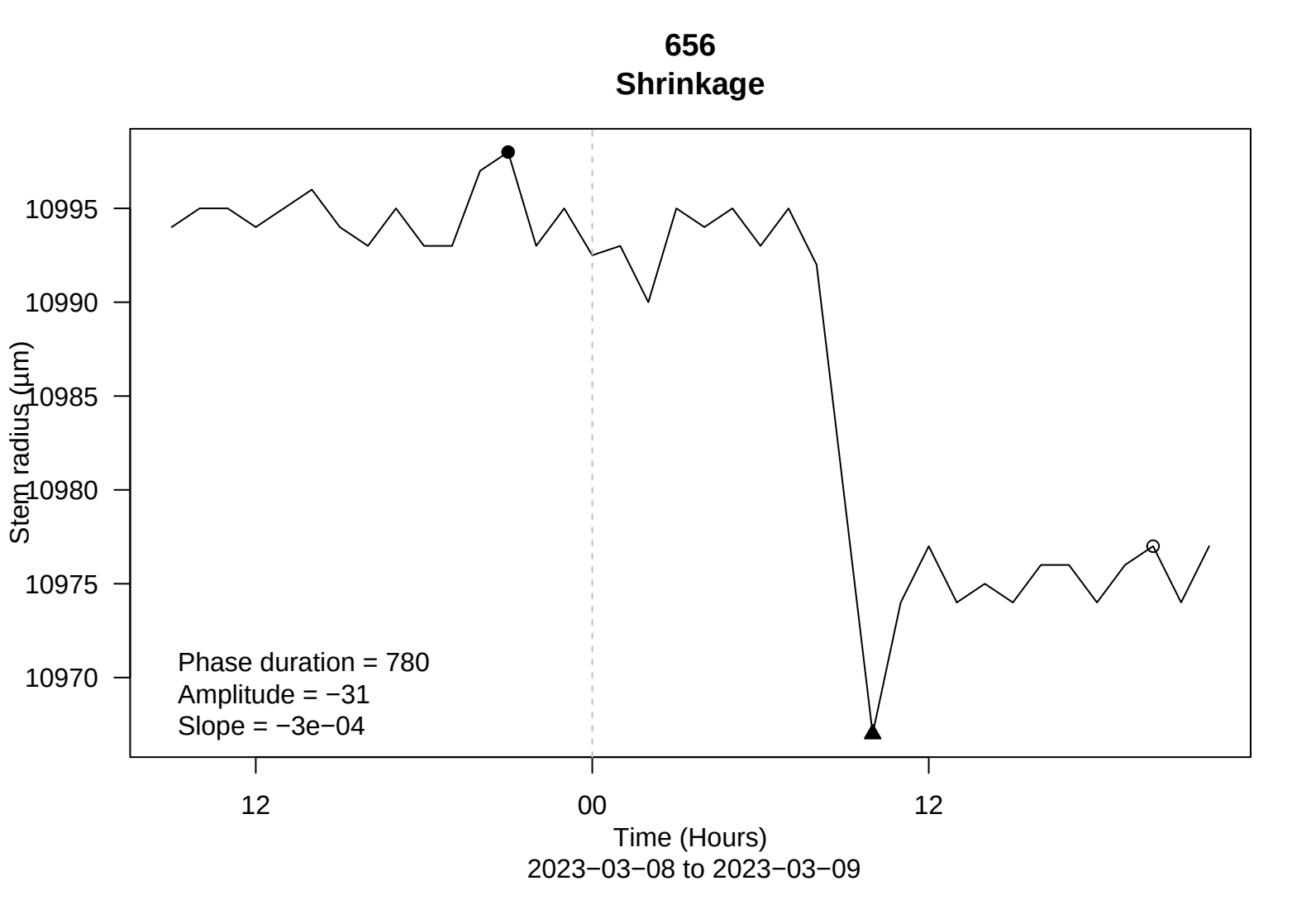

656
Shrinkage
11040
11035
11030
11025
11020
11015
11010
Stem radius (µm)
Phase duration = 1080
Amplitude = −30
Slope = −5e−04
00
12
00
12
Time (Hours)
2023−03−05 to 2023−03−06

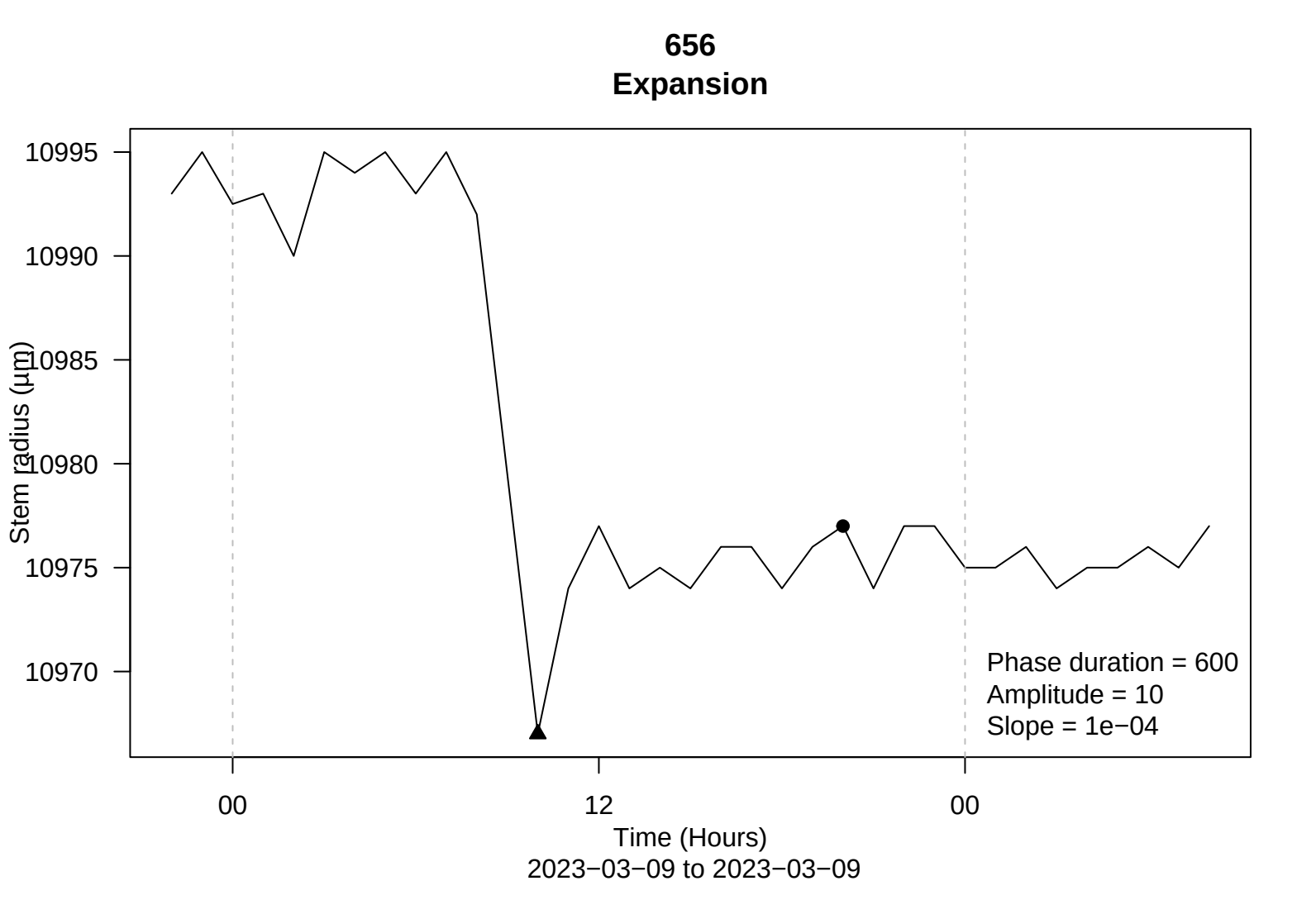

656
Shrinkage
11020
11018
11016
11014
11012
11010
Stem radius (µm)
Phase duration = 480
Amplitude = −8
Slope = −2e−04
00
12
00
Time (Hours)
2023−03−06 to 2023−03−06

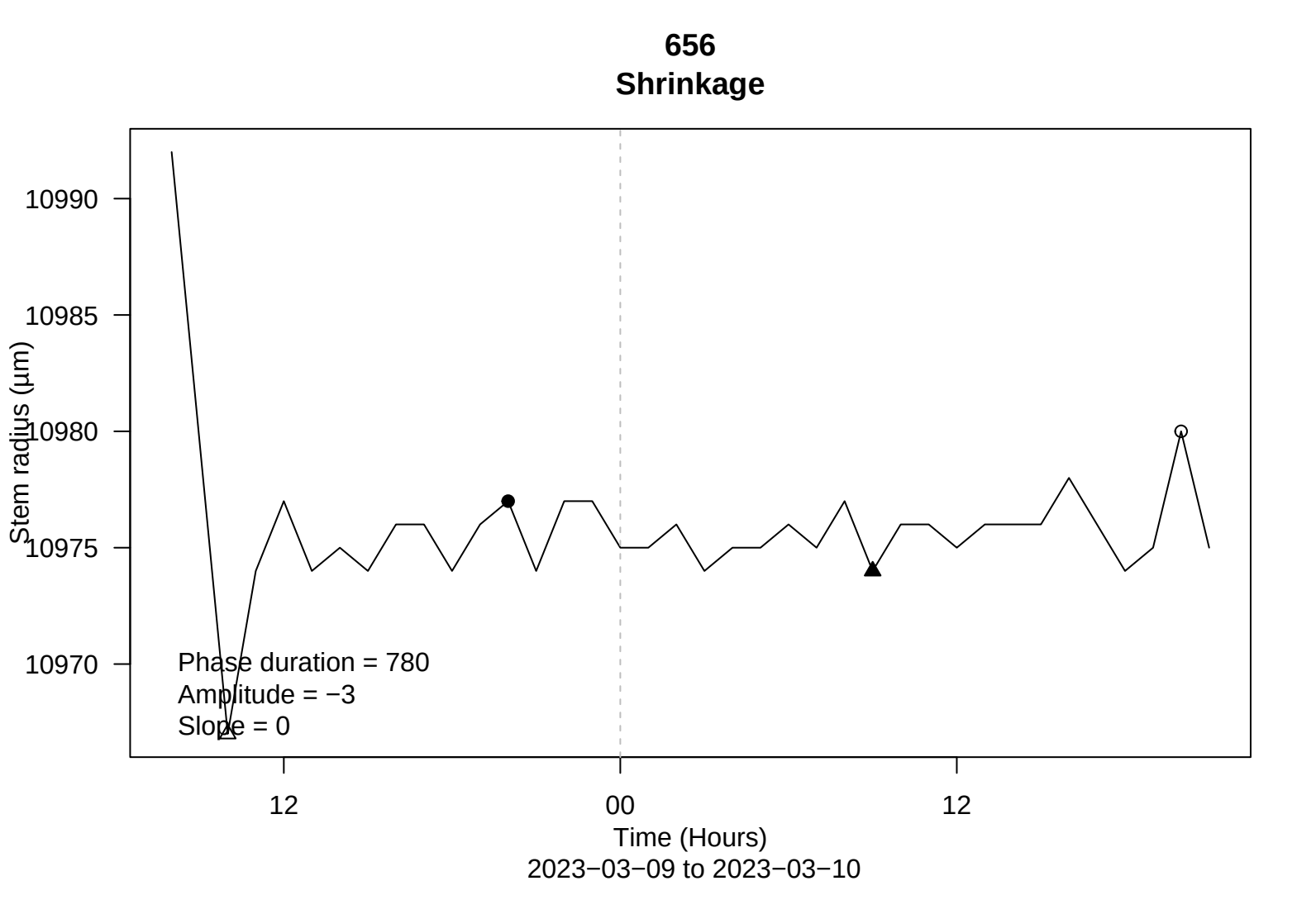

656
Expansion
11020
11018
11016
11014
11012
11010
Stem radius (µm)
Phase duration = 300
Amplitude = 6
Slope = 2e−04
06
12
18
00
06
Time (Hours)
2023−03−06 to 2023−03−06

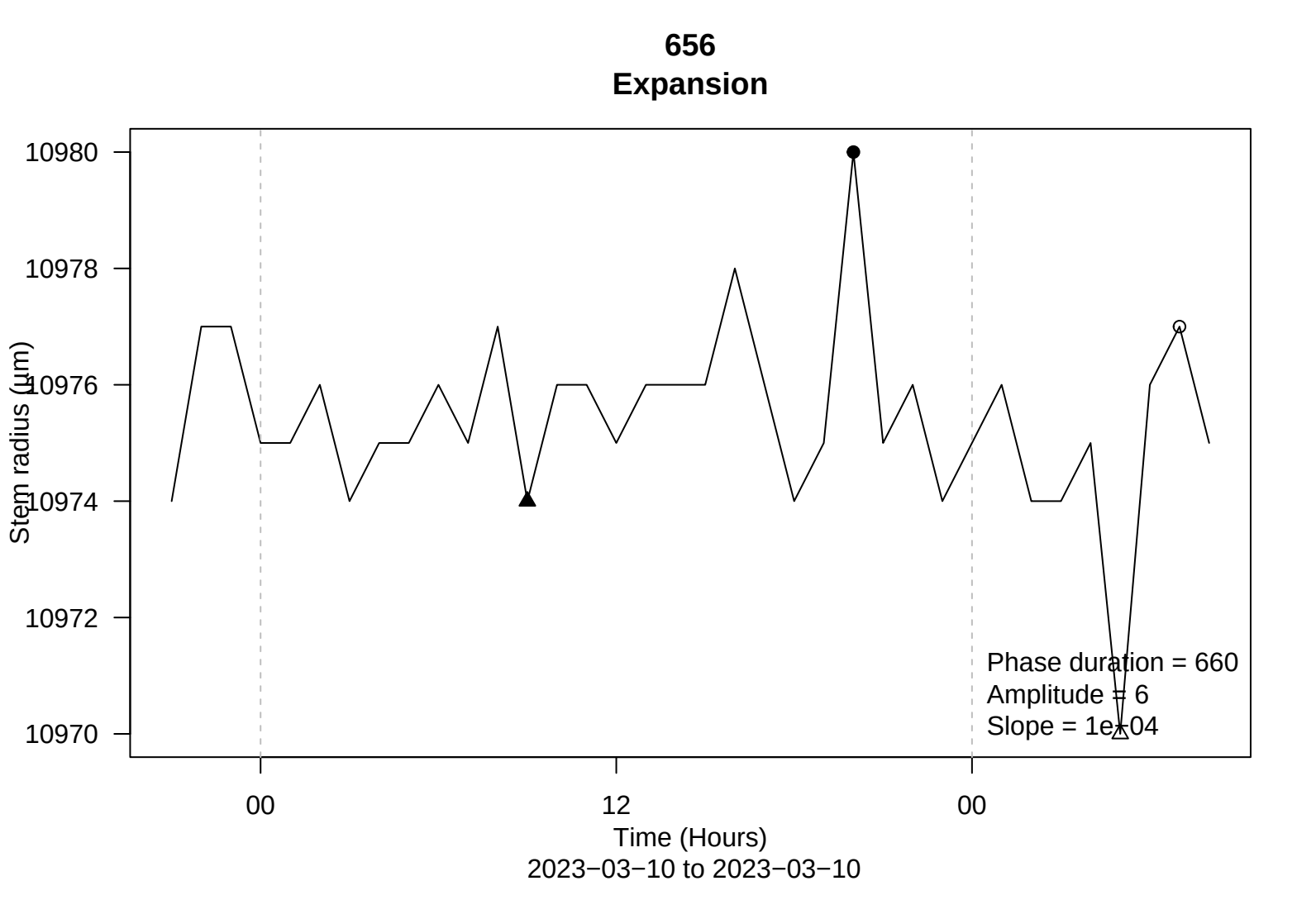

656
Shrinkage
11015
11010
11005
11000
10995
10990
Stem radius (µm)
Phase duration = 1920
Amplitude = −29
Slope = −3e−04
12
00
12
00
12
Time (Hours)
2023−03−06 to 2023−03−08

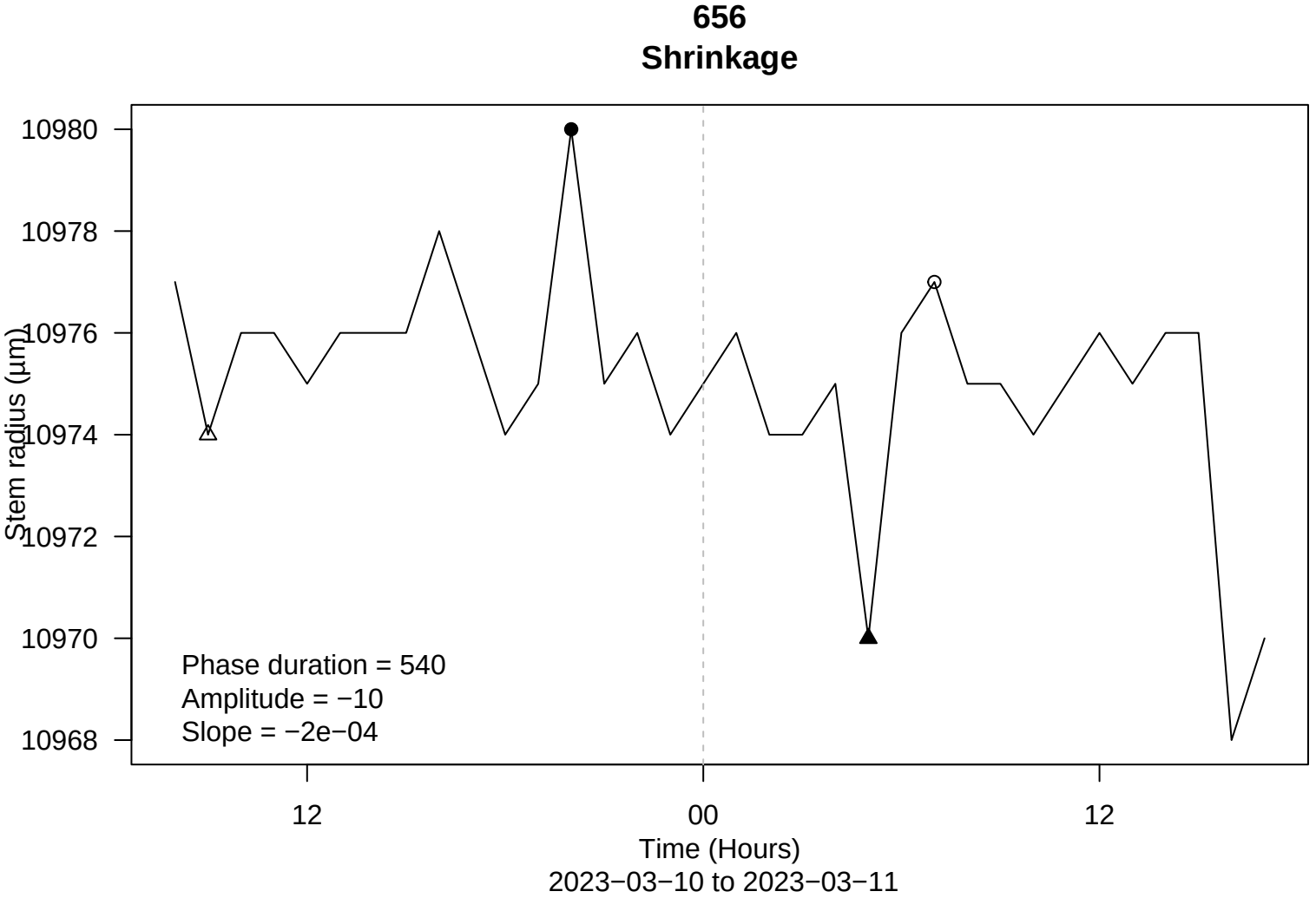

656
Expansion
11000
10995
10990
10985
10980
Stem radius (µm)
Phase duration = 1020
Amplitude = 9
Slope = 0
00
12
00
Time (Hours)
2023−03−08 to 2023−03−08

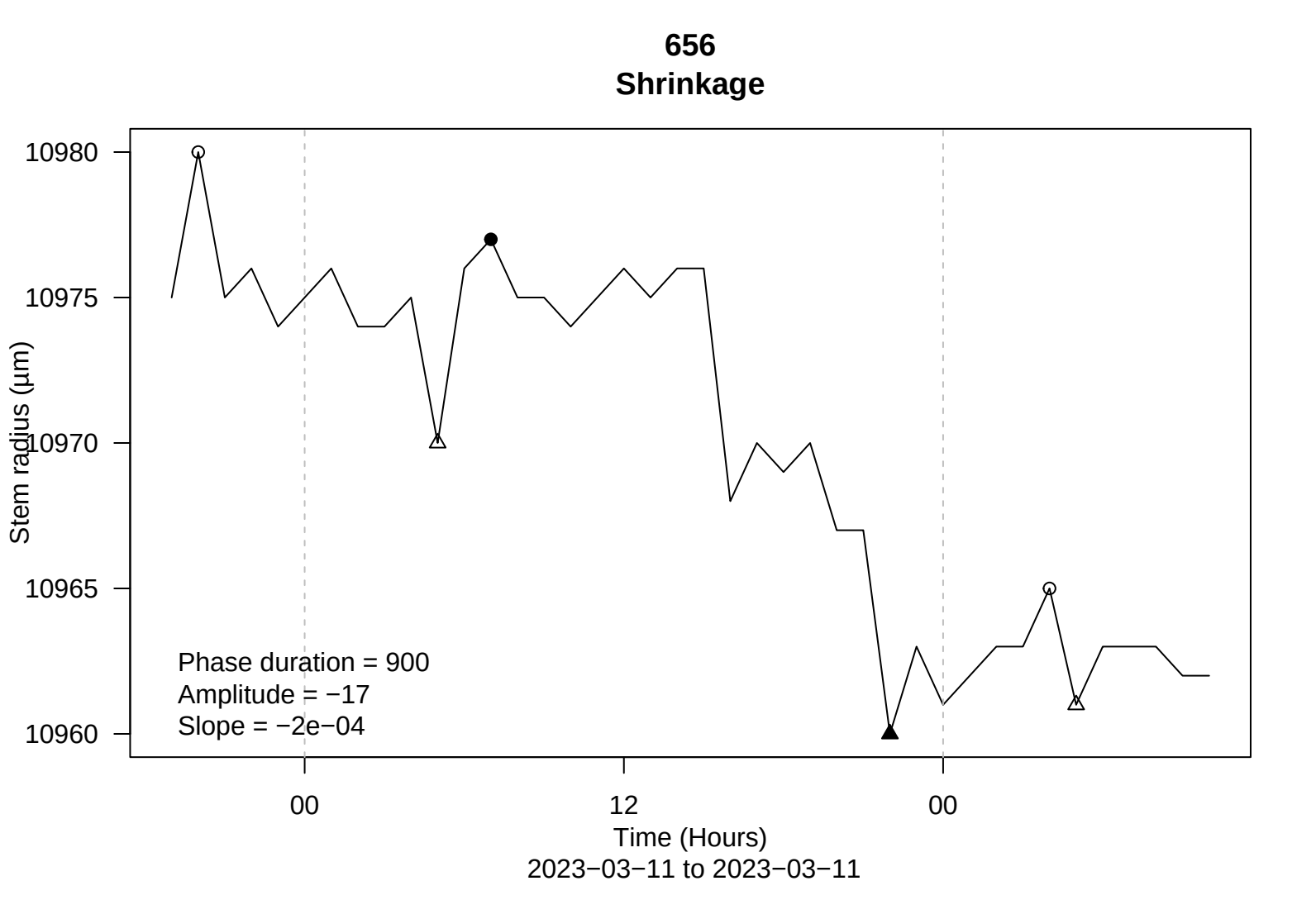

656
Shrinkage
10995
10990
10985
10980
10975
10970
Stem radius (µm)
Phase duration = 780
Amplitude = −31
Slope = −3e−04
12
00
12
Time (Hours)
2023−03−08 to 2023−03−09

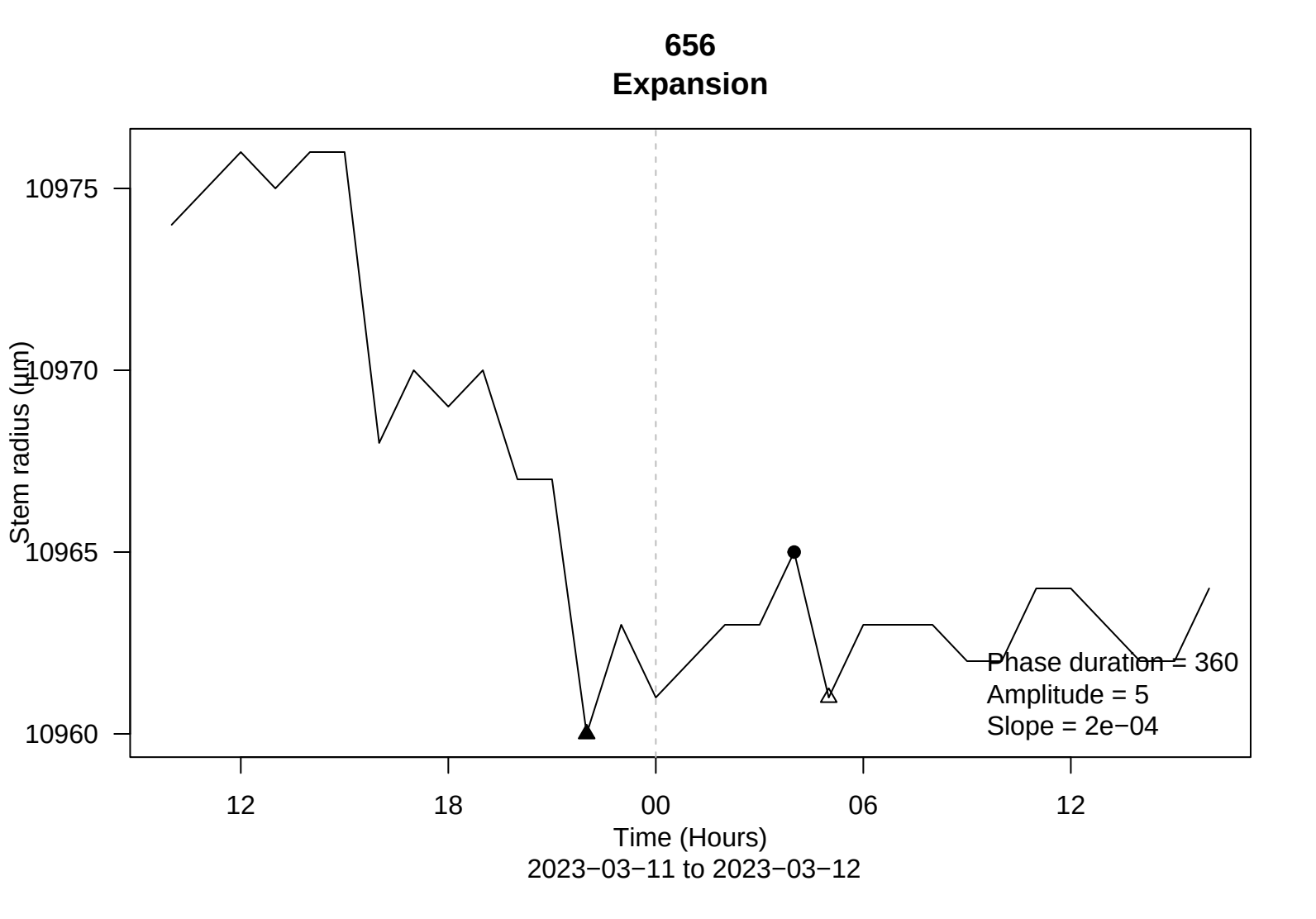

656
Expansion
10995
10990
10985
10980
10975
10970
Stem radius (µm)
Phase duration = 600
Amplitude = 10
Slope = 1e−04
00
12
00
Time (Hours)
2023−03−09 to 2023−03−09

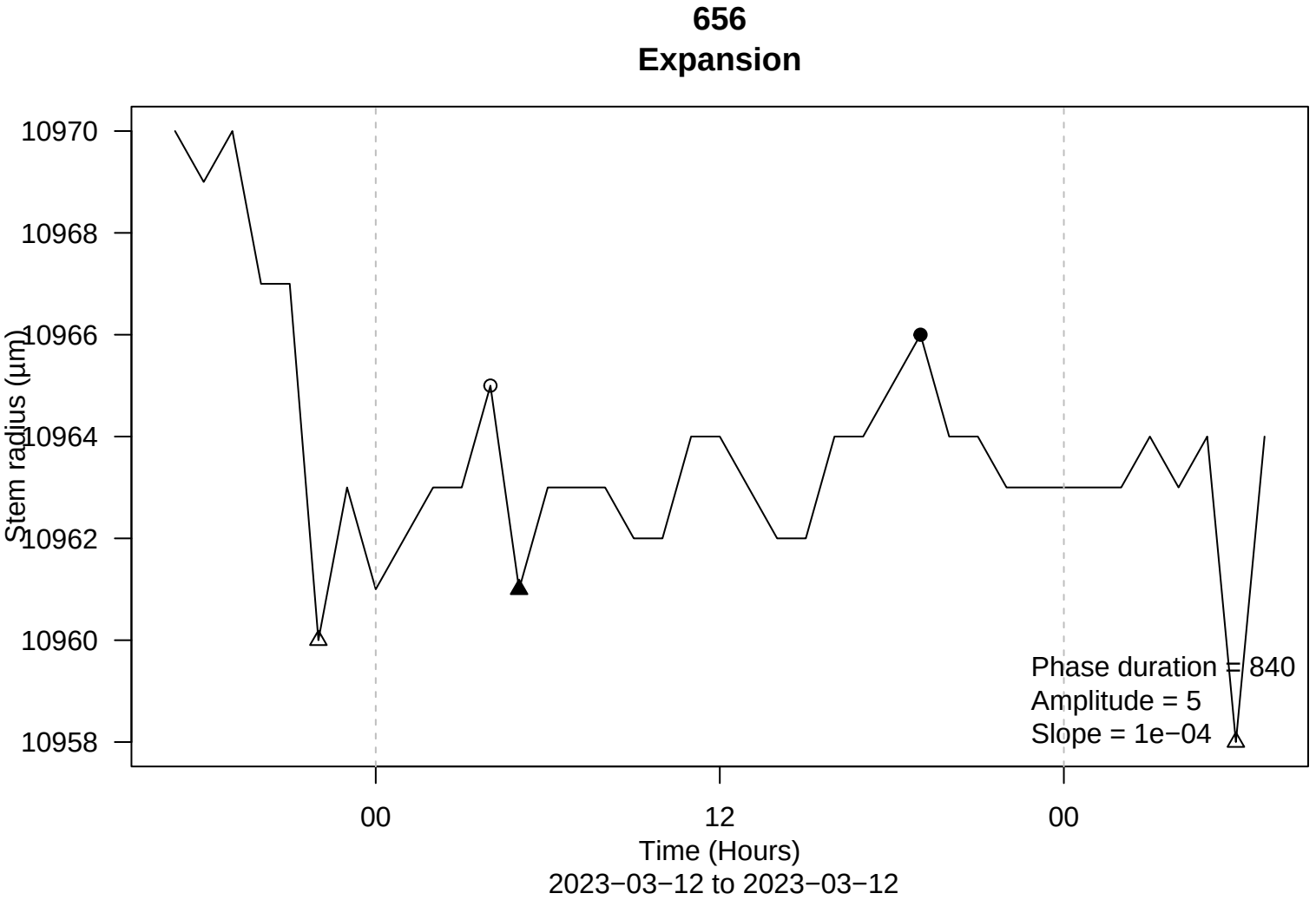

656
Shrinkage
10990
10985
10980
10975
10970
Stem radius (µm)
Phase duration = 780
Amplitude = −3
Slope = 0
12
00
12
Time (Hours)
2023−03−09 to 2023−03−10

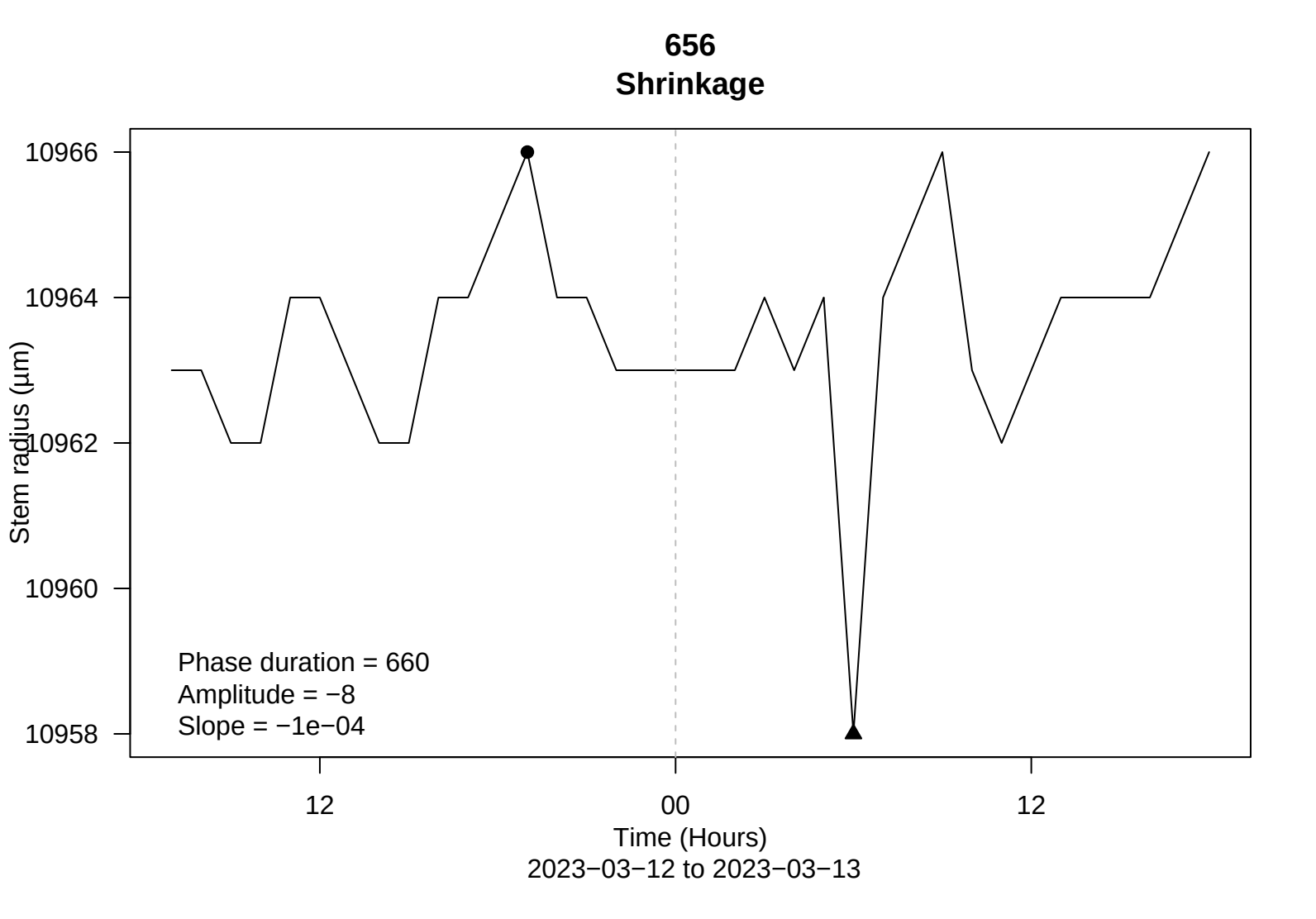

656
Expansion
10980
10978
10976
10974
10972
10970
Stem radius (µm)
Phase duration = 660
Amplitude = 6
Slope = 1e-04
00
12
00
Time (Hours)
2023−03−10 to 2023−03−10

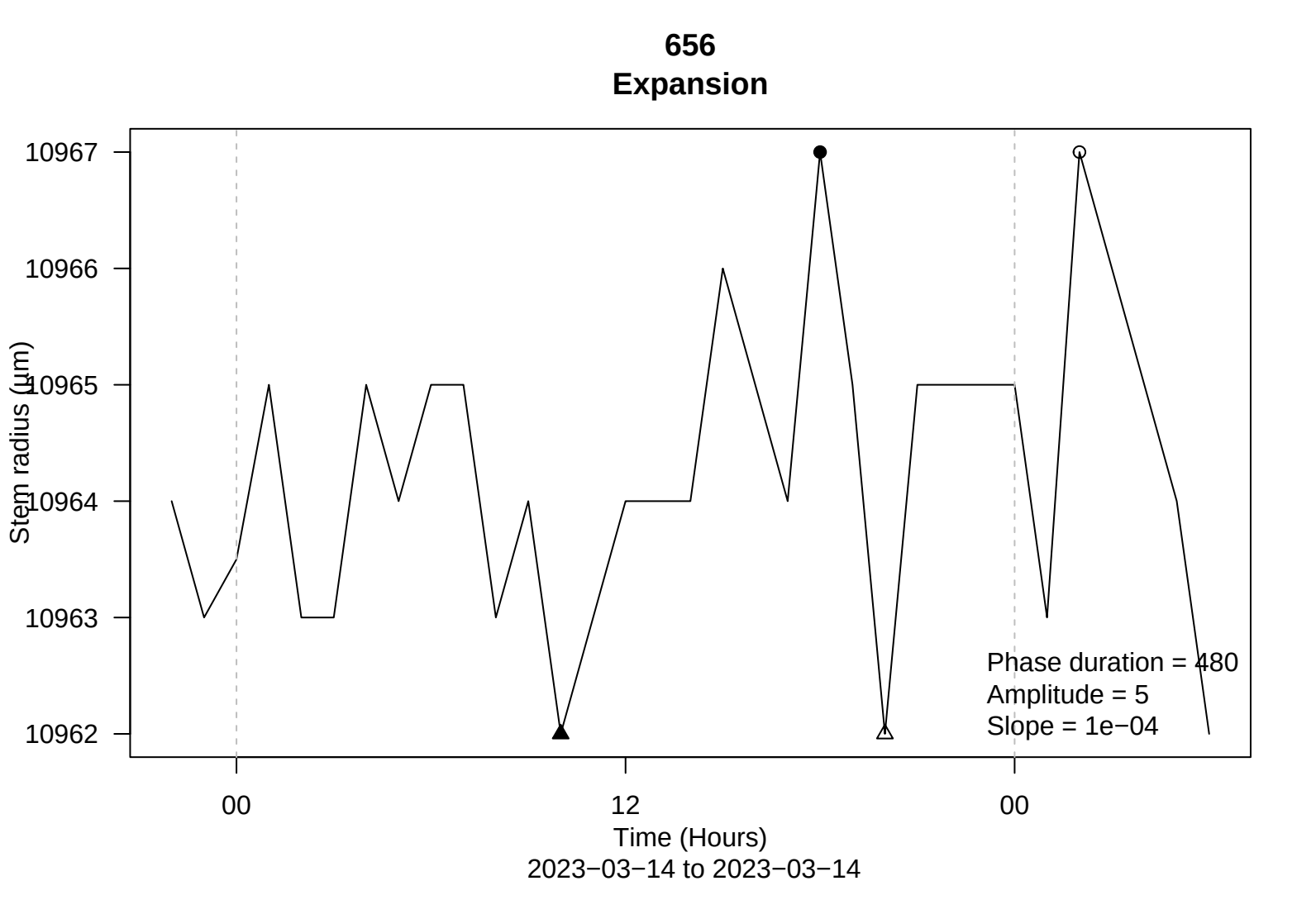

656
Shrinkage
10980
10978
10976
10974
10972
10970
10968
Stem radius (µm)
Phase duration = 540
Amplitude = −10
Slope = −2e−04
12
00
12
Time (Hours)
2023−03−10 to 2023−03−11

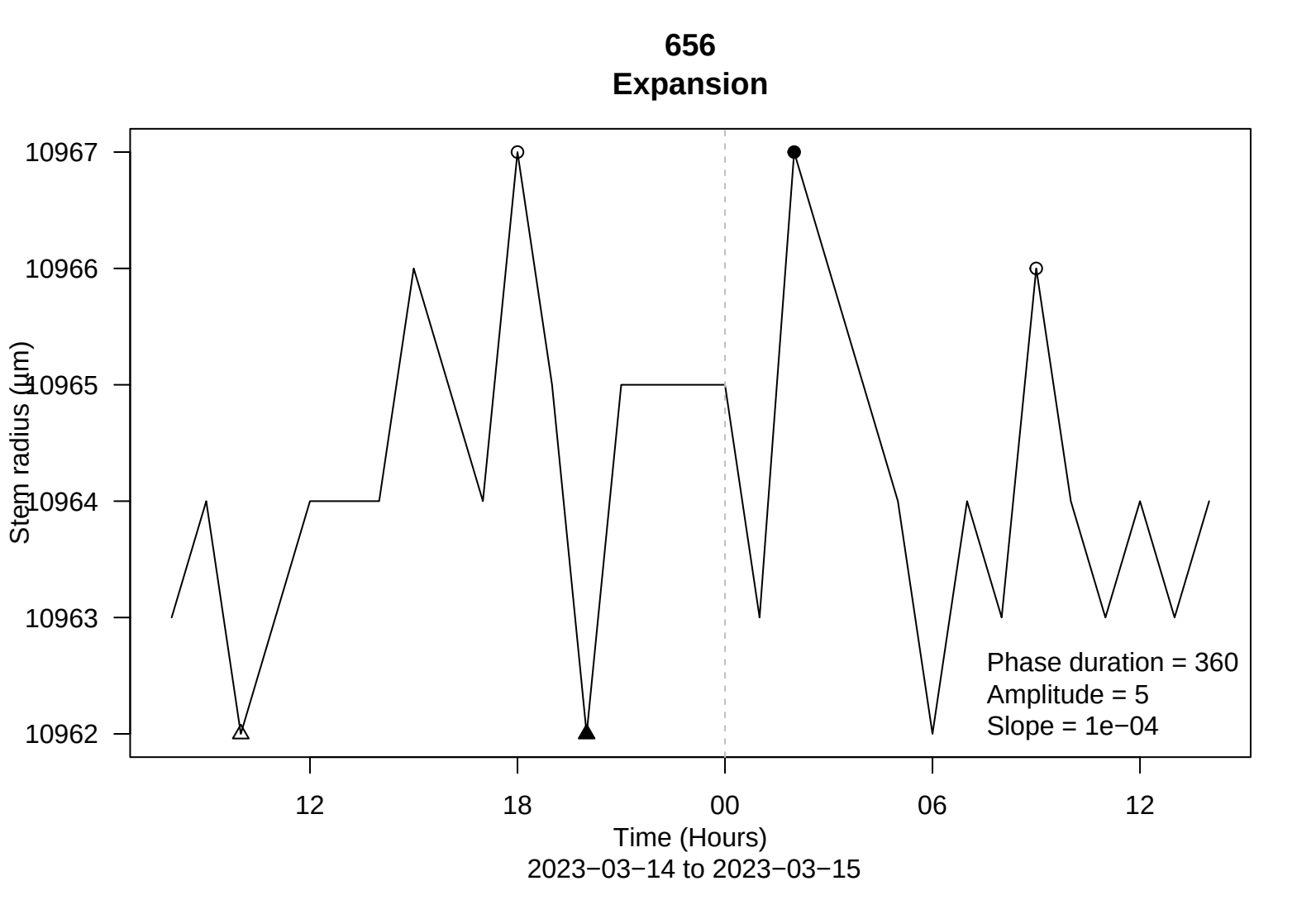

656
Shrinkage
10980
10975
10970
10965
10960
Stem radius (µm)
Phase duration = 900
Amplitude = −17
Slope = −2e−04
00
12
00
Time (Hours)
2023−03−11 to 2023−03−11

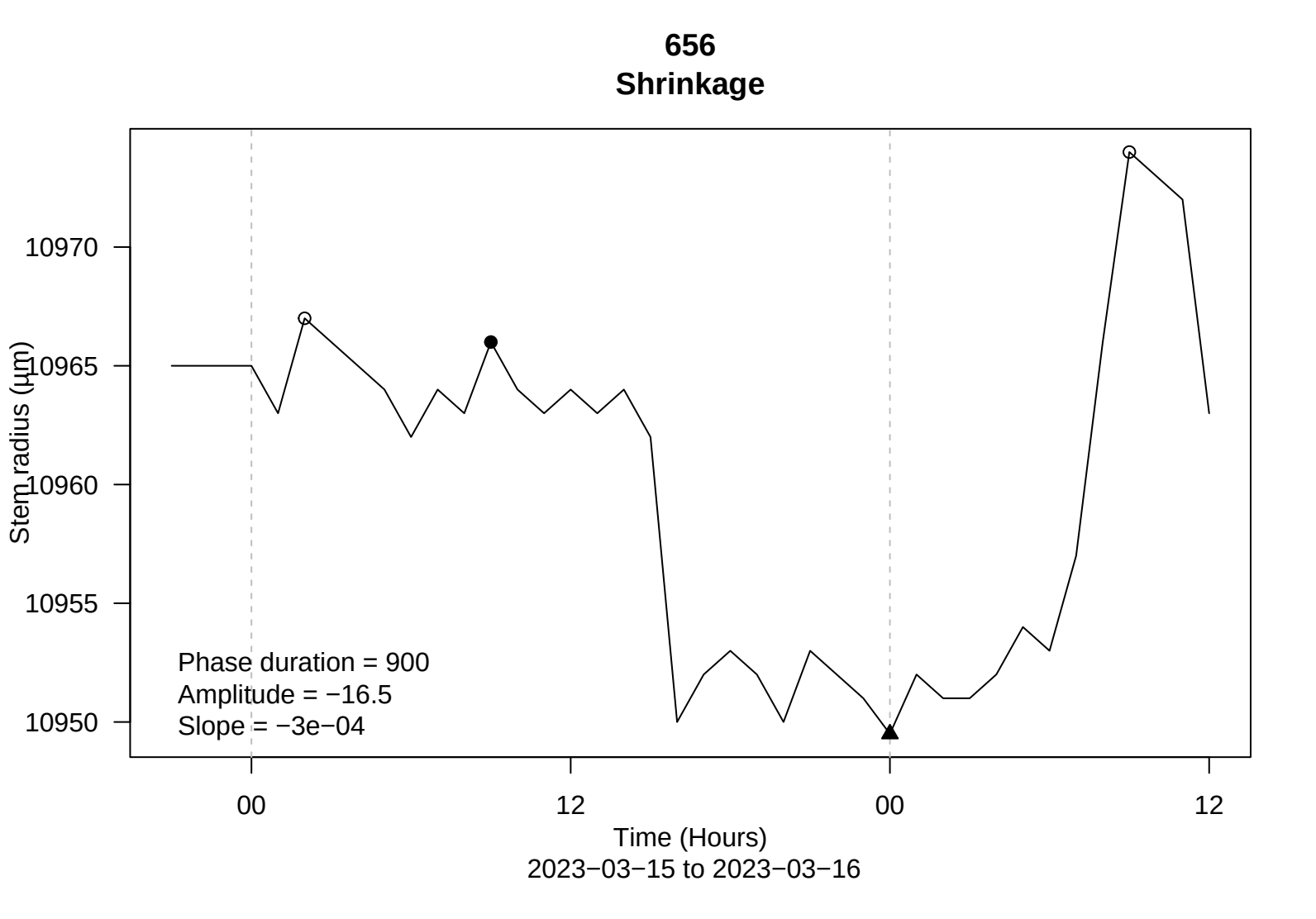

656
Expansion
10975
10970
10965
10960
Stem radius (µm)
12
18
00
06
12
Time (Hours)
2023−03−11 to 2023−03−12
Phase duration = 360
Amplitude = 5
Slope = 2e−04

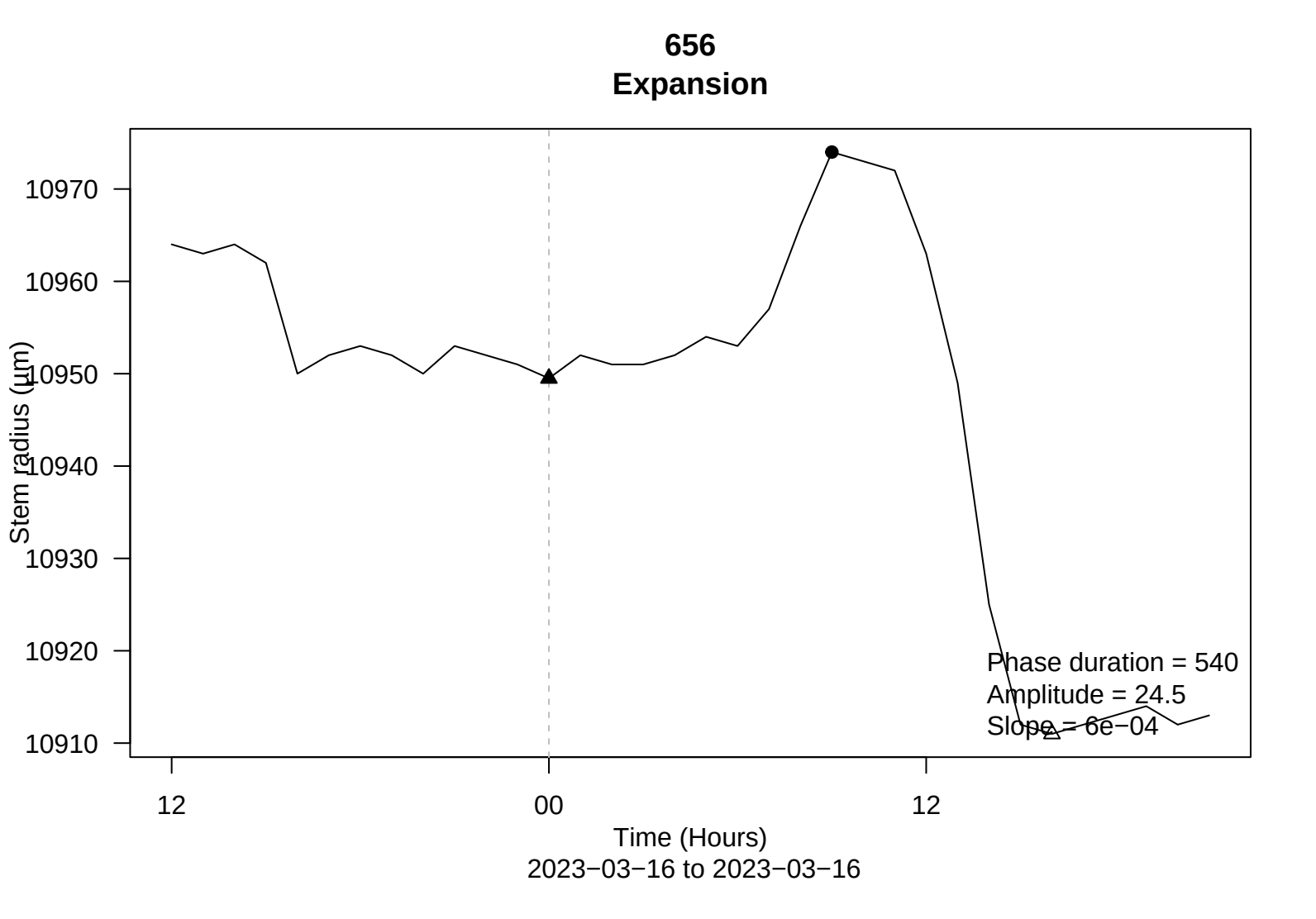

656
Expansion
10970
10968
10966
10964
10962
10960
10958
Stem radius (µm)
Phase duration = 840
Amplitude = 5
Slope = 1e−04
00
12
00
Time (Hours)
2023−03−12 to 2023−03−12

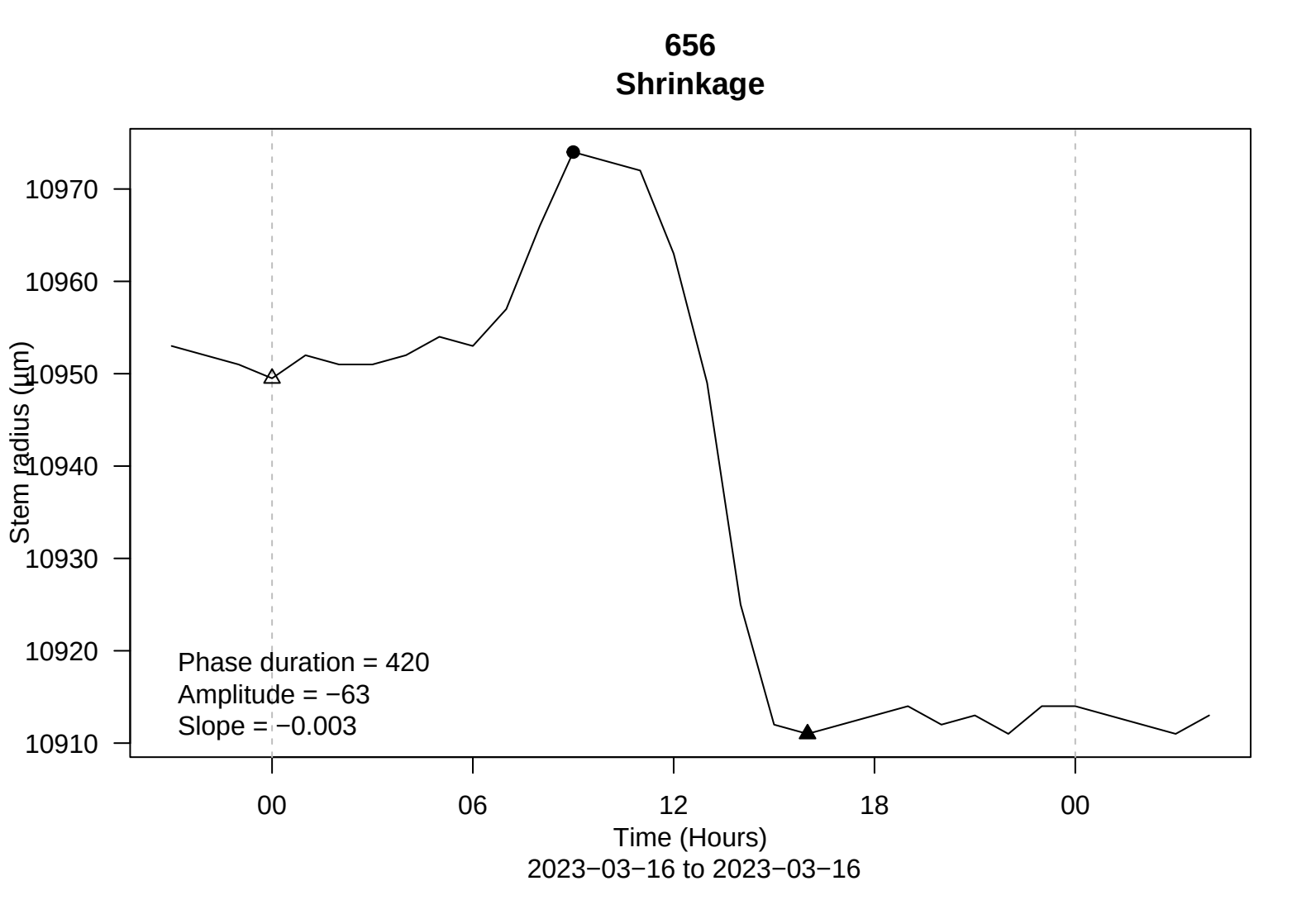

656
Shrinkage
10966
10964
10962
10960
10958
Stem radius (µm)
Phase duration = 660
Amplitude = −8
Slope = −1e−04
12
00
12
Time (Hours)
2023−03−12 to 2023−03−13

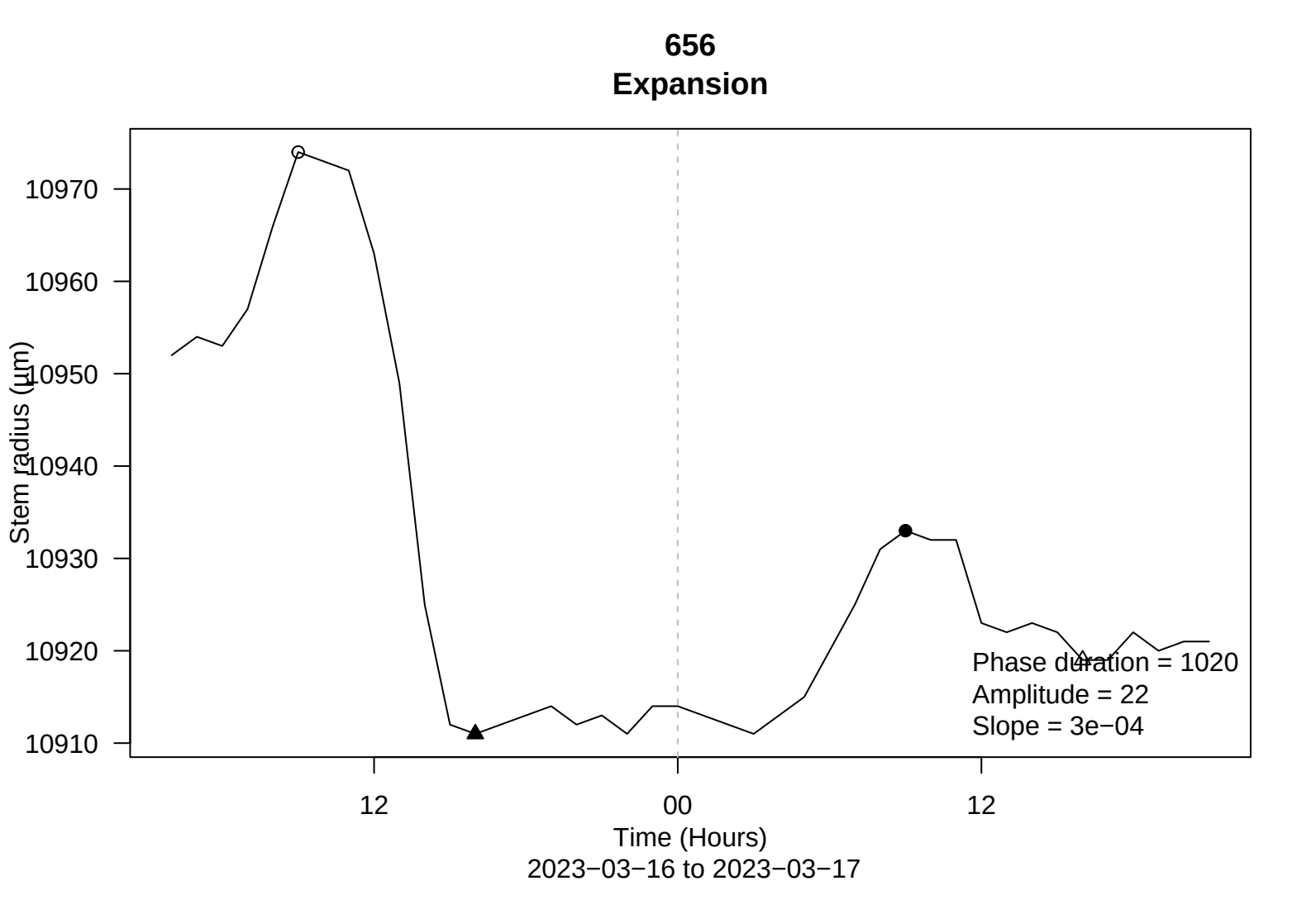

656
Expansion
10967
10966
10965
10964
10963
10962
Stem radius (µm)
Phase duration = 480
Amplitude = 5
Slope = 1e−04
00
12
00
Time (Hours)
2023−03−14 to 2023−03−14

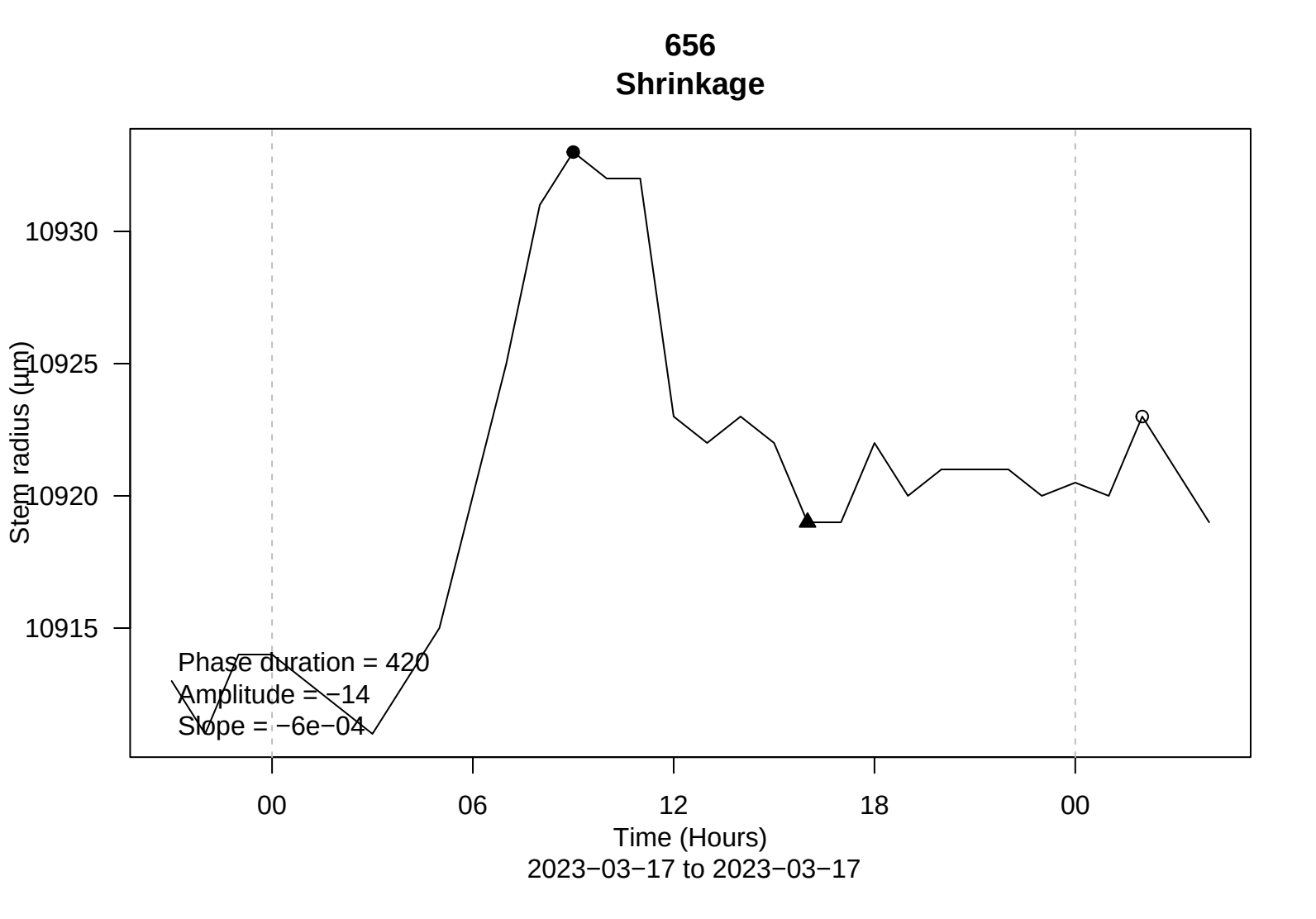

656
Expansion
10967
10966
10965
10964
10963
10962
Stem radius (µm)
Phase duration = 360
Amplitude = 5
Slope = 1e−04
12
18
00
06
12
Time (Hours)
2023−03−14 to 2023−03−15

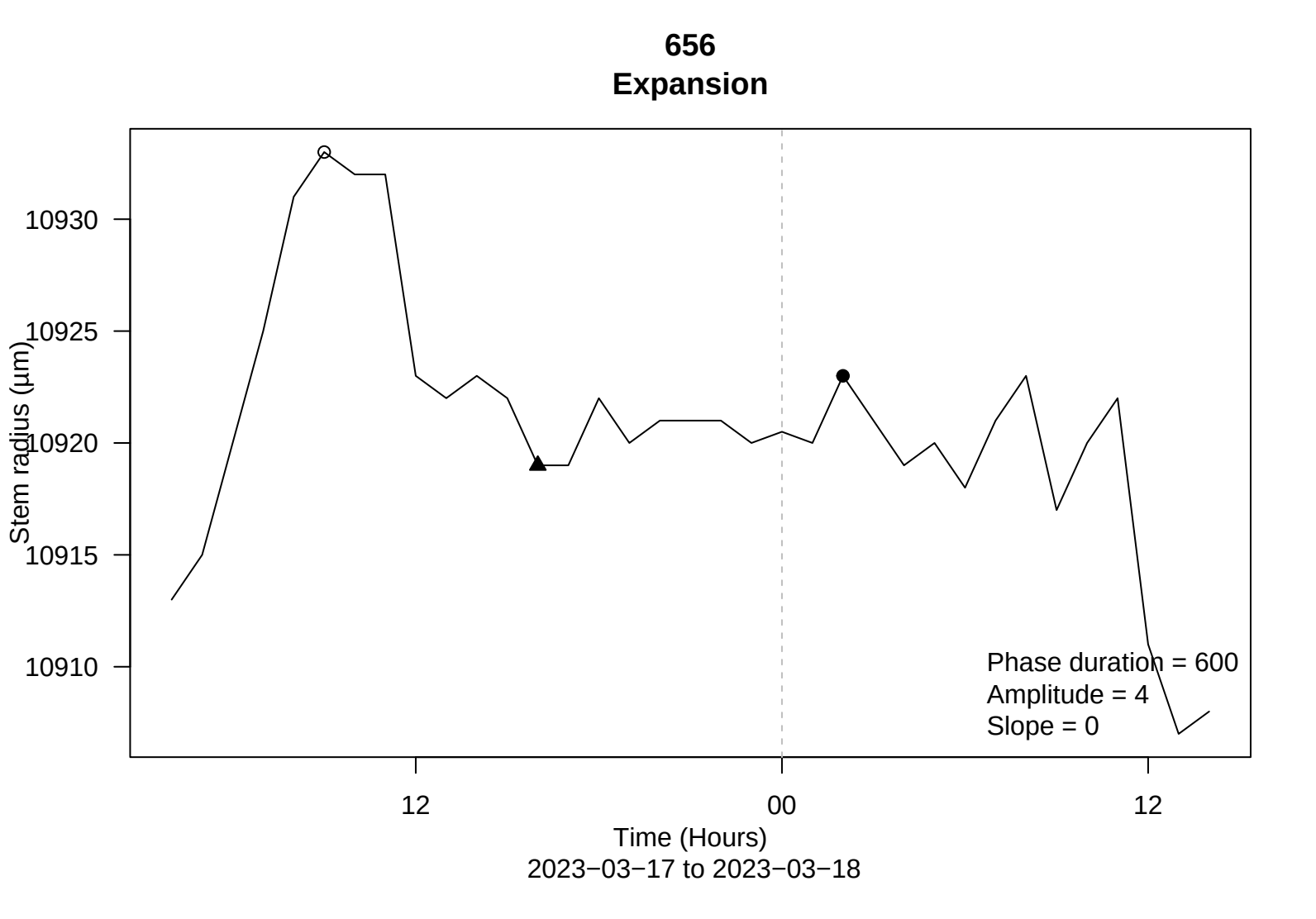

656
Shrinkage
10970
10965
10960
10955
10950
Stem radius (µm)
Phase duration = 900
Amplitude = −16.5
Slope = −3e−04
00
12
00
12
Time (Hours)
2023−03−15 to 2023−03−16

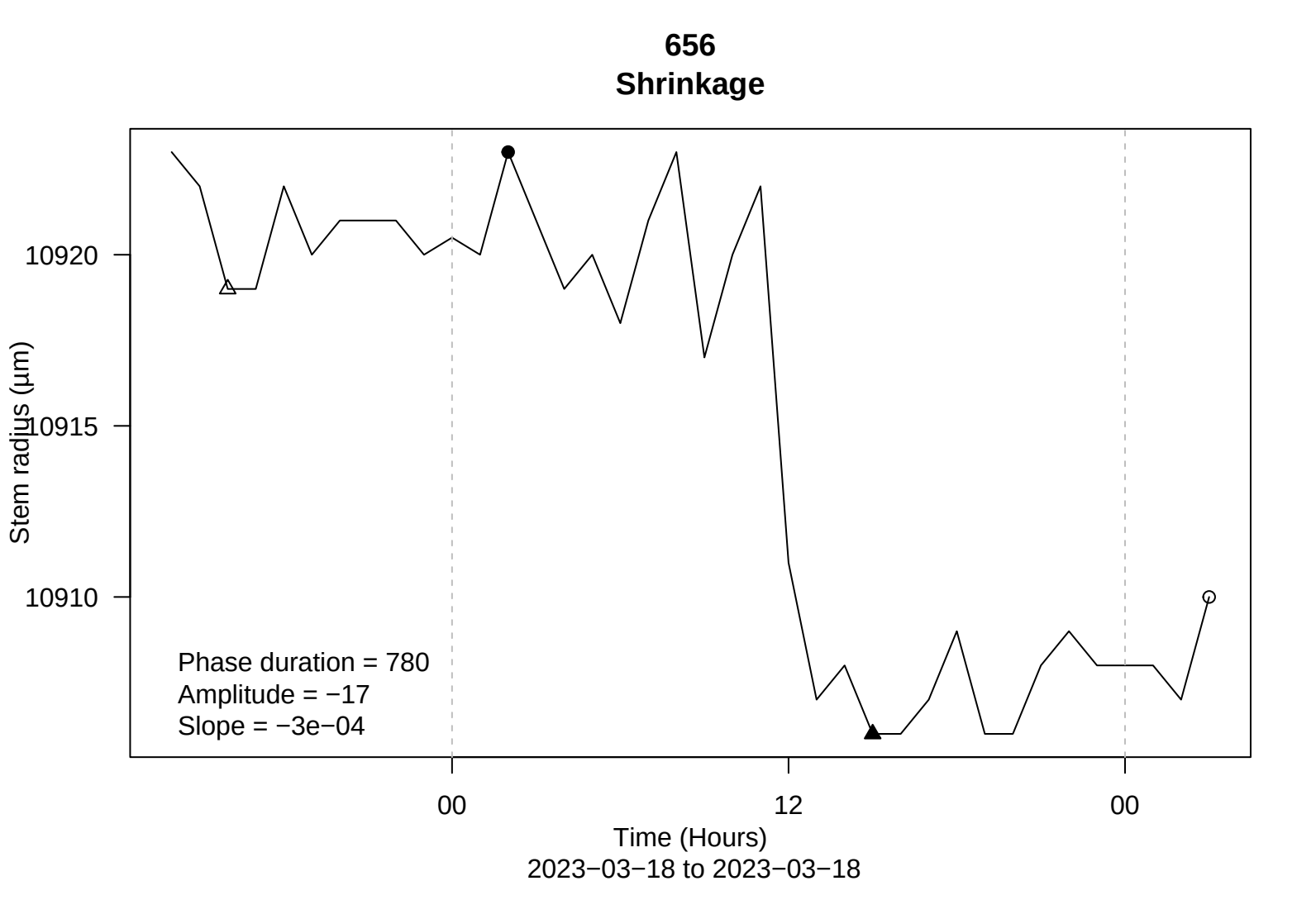

656
Expansion
10970
10960
10950
10940
10930
10920
10910
Stem radius (µm)
Phase duration = 540
Amplitude = 24.5
Slope = 6e−04
12
00
12
Time (Hours)
2023−03−16 to 2023−03−16

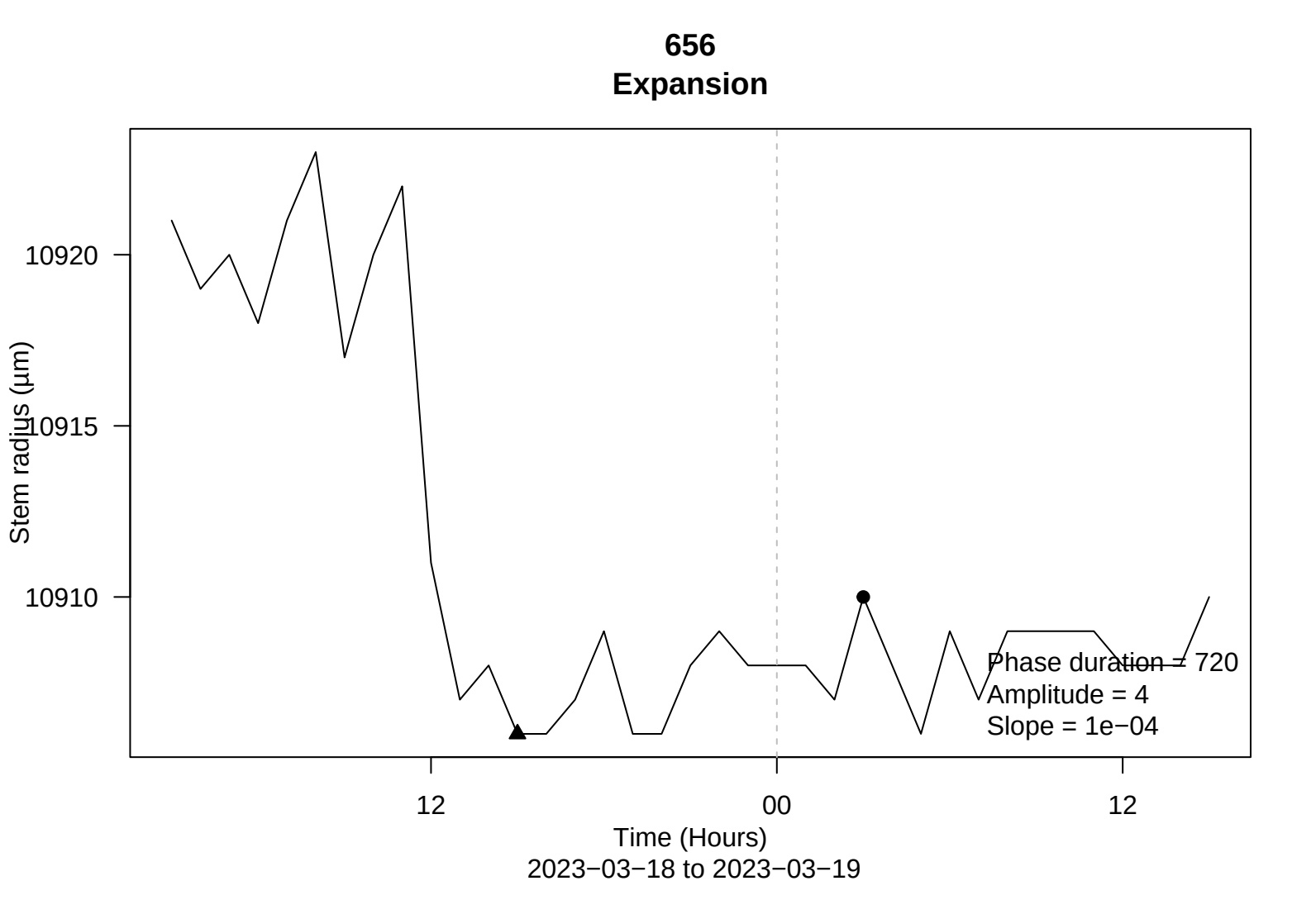

656
Shrinkage
10970
10960
10950
10940
10930
10920
10910
Stem radius (µm)
Phase duration = 420
Amplitude = −63
Slope = −0.003
00
06
12
18
00
Time (Hours)
2023−03−16 to 2023−03−16

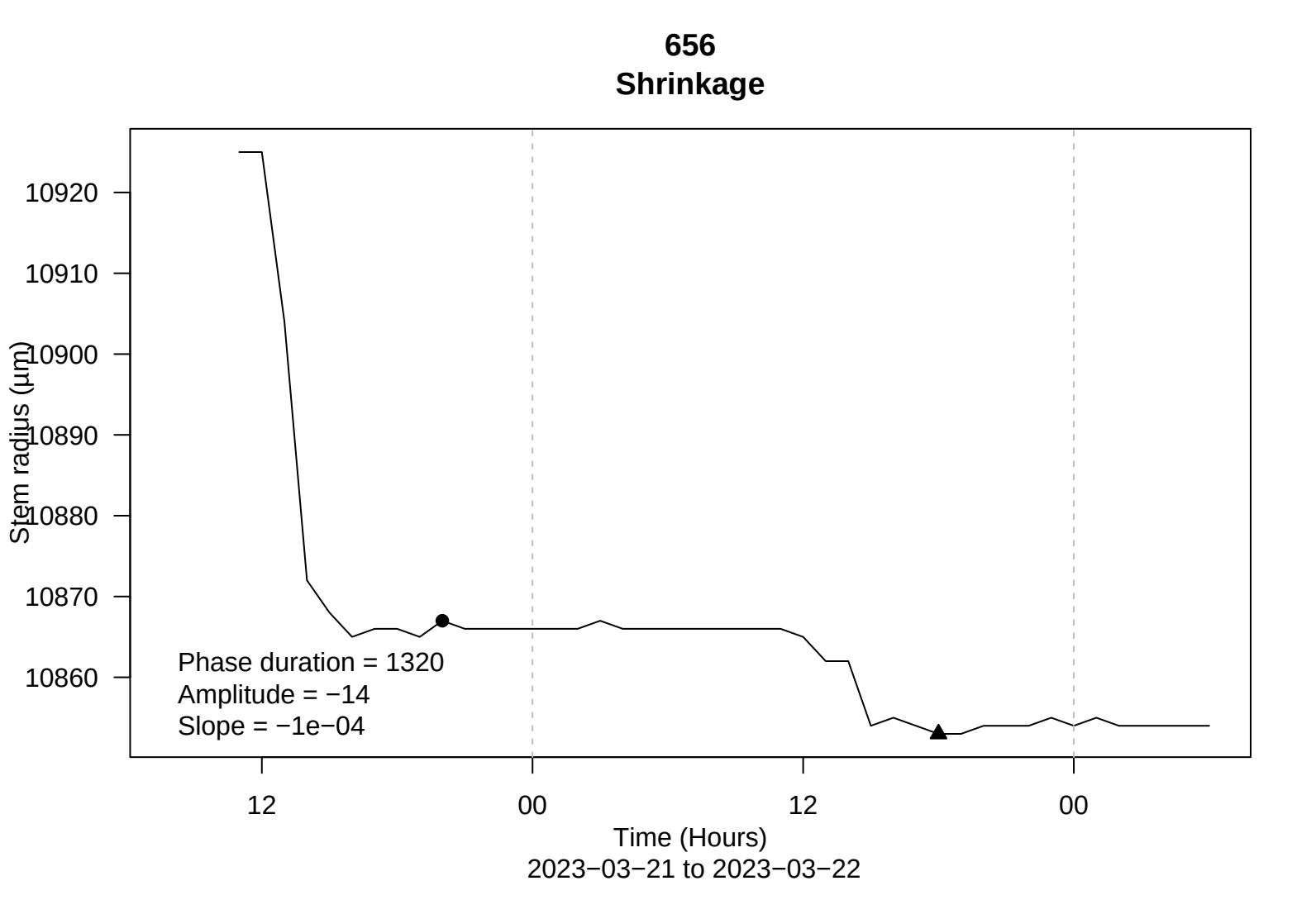

656
Expansion
10970
10960
10950
10940
10930
10920
10910
Stem radius (µm)
12
00
12
Time (Hours)
2023−03−16 to 2023−03−17
Phase duration = 1020
Amplitude = 22
Slope = 3e−04

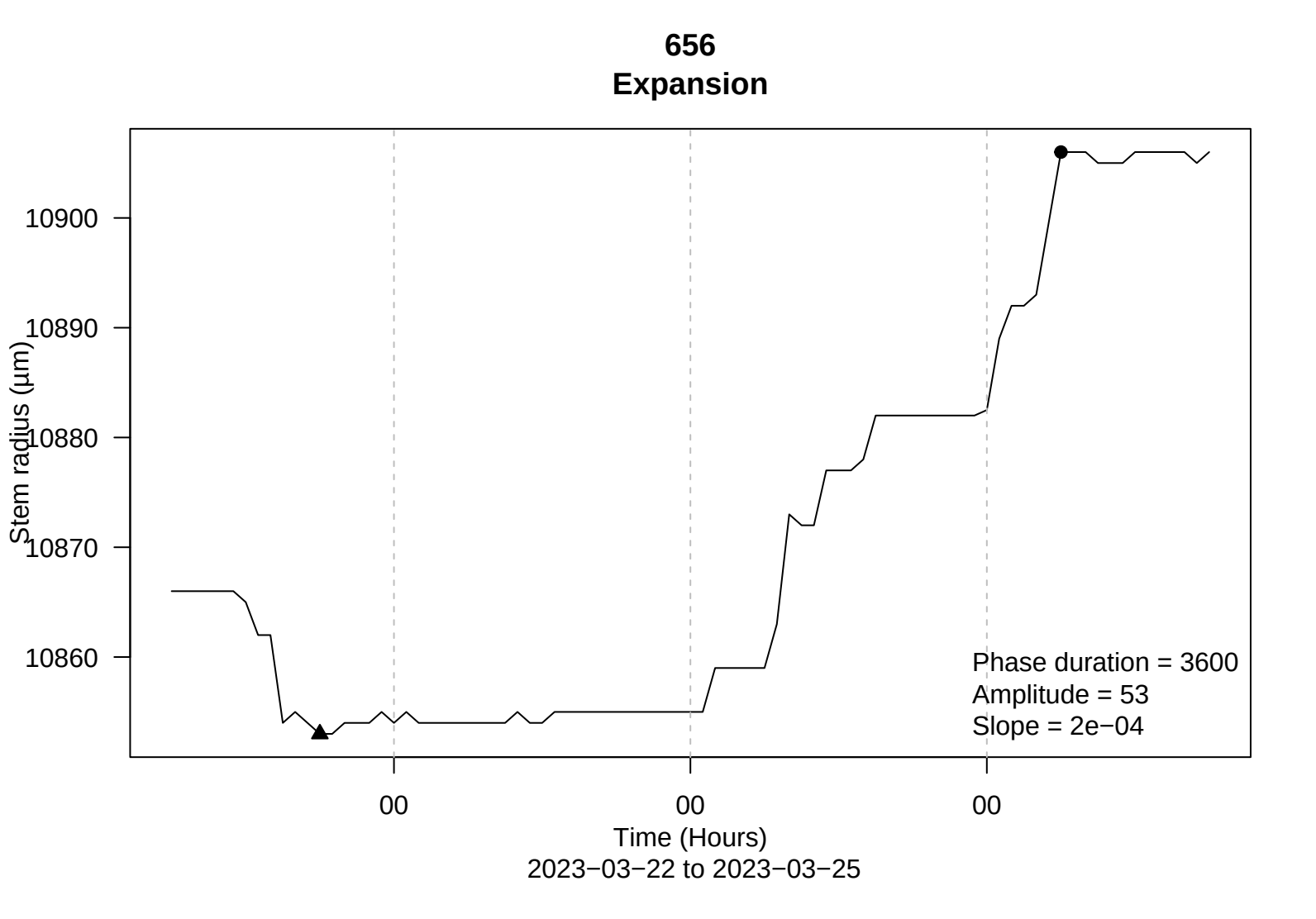

656
Shrinkage
10930
10925
10920
10915
Stem radius (µm)
Phase duration = 420
Amplitude = −14
Slope = −6e−04
00
06
12
18
00
Time (Hours)
2023−03−17 to 2023−03−17

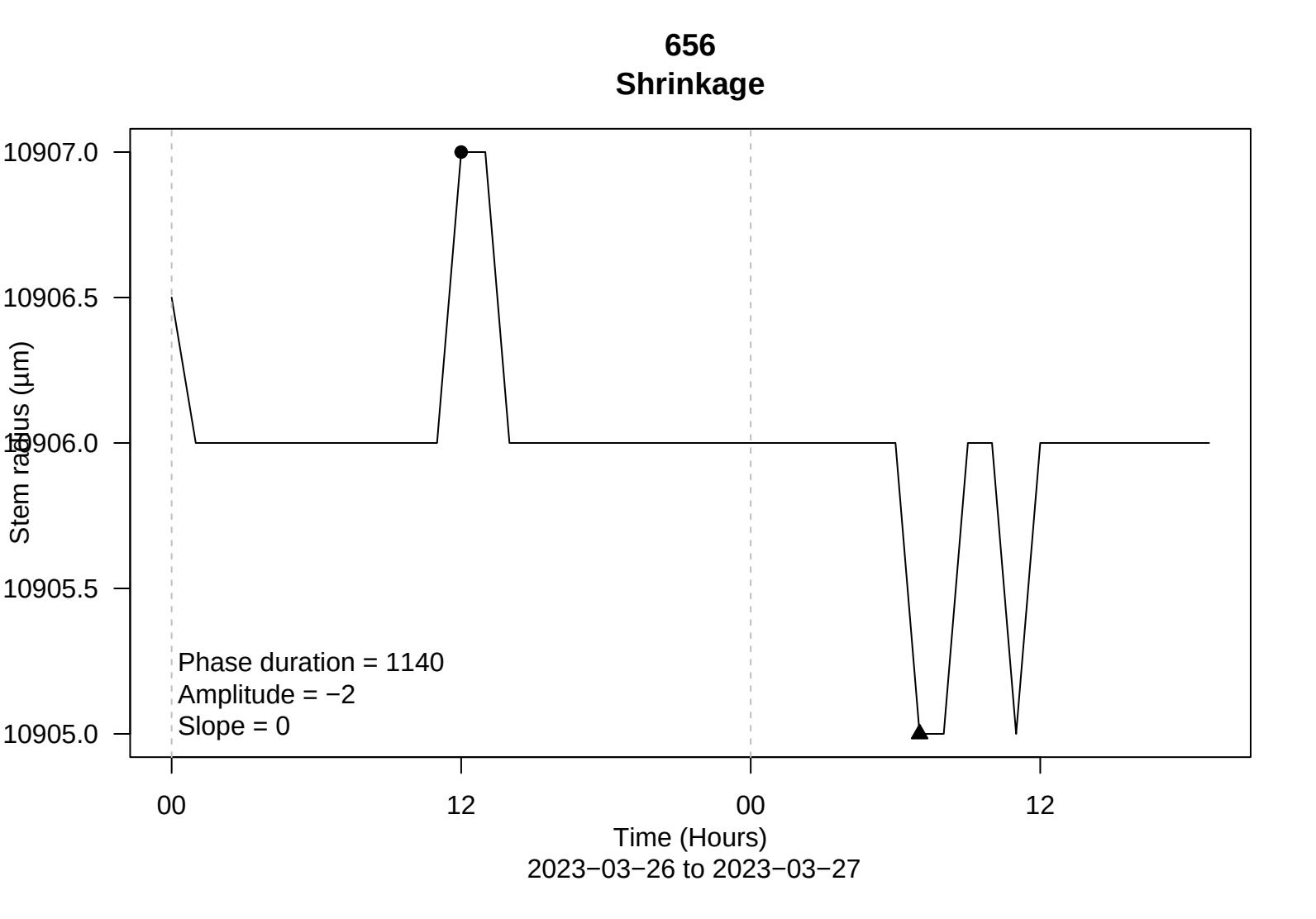

656
Expansion
10930
10925
10920
10915
10910
Stem radius (µm)
Phase duration = 600
Amplitude = 4
Slope = 0
12
00
12
Time (Hours)
2023−03−17 to 2023−03−18

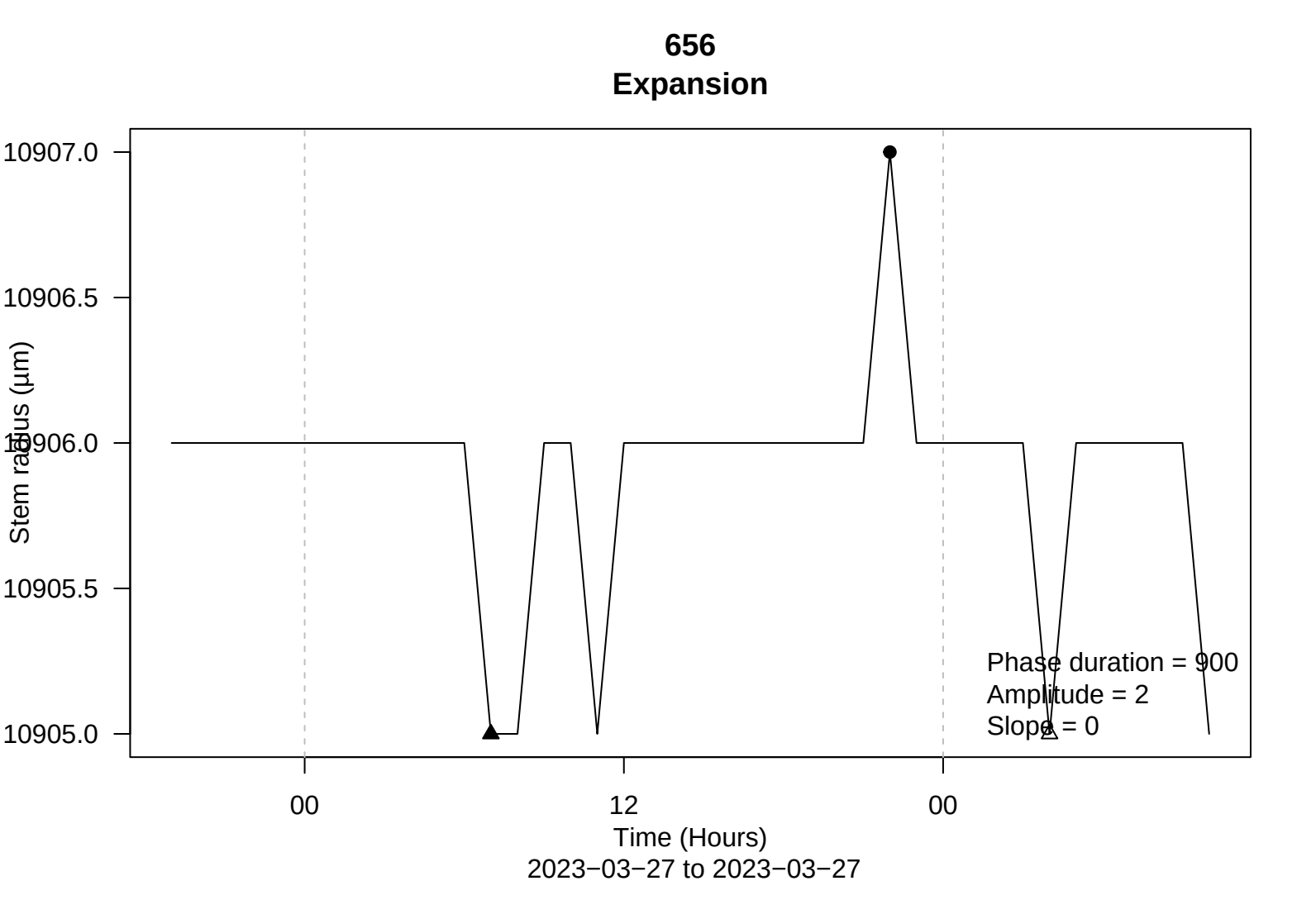

656
Shrinkage
10920
10915
10910
Stem radius (µm)
Phase duration = 780
Amplitude = −17
Slope = −3e−04
00
12
00
Time (Hours)
2023−03−18 to 2023−03−18

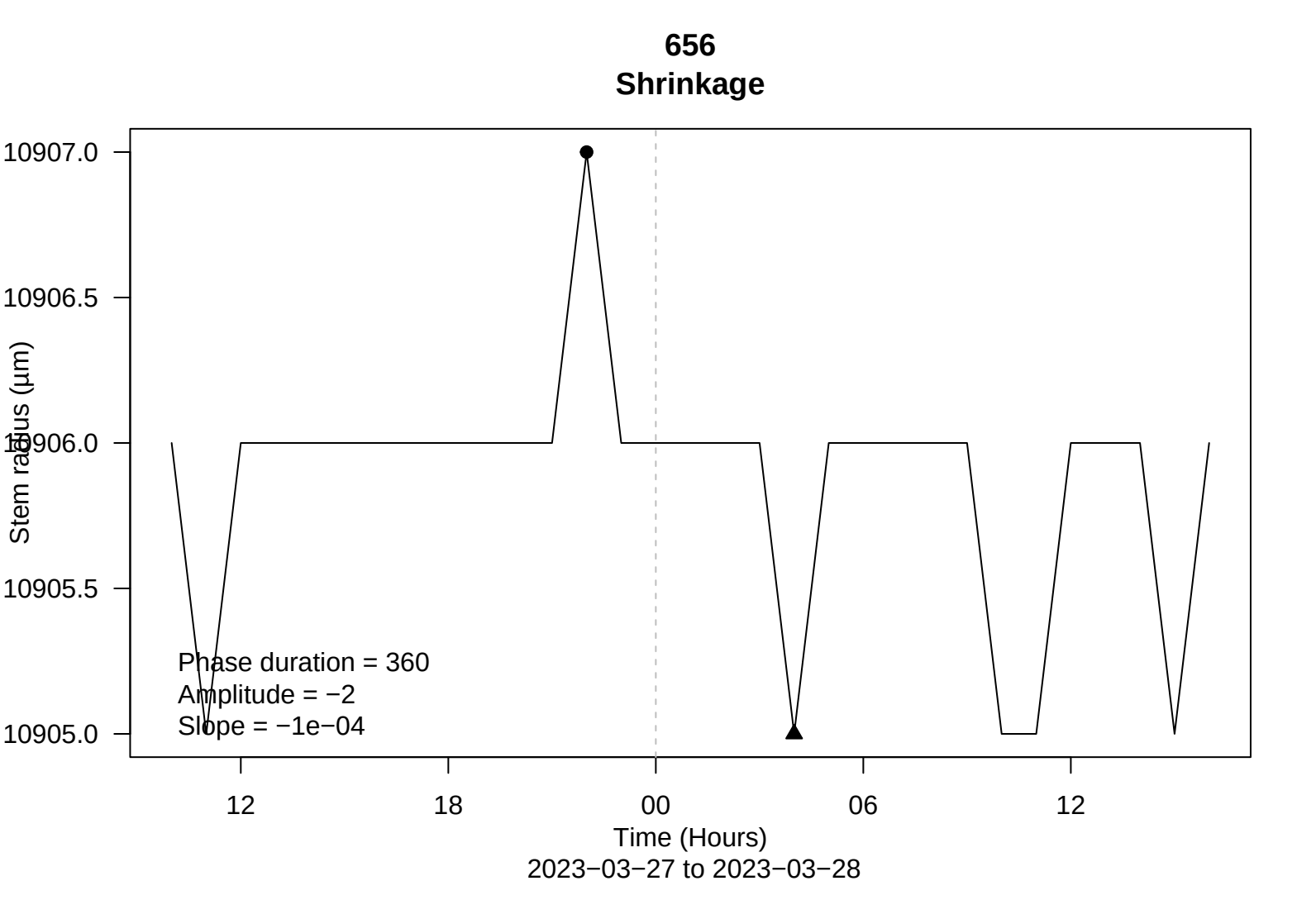

656
Expansion
10920
10915
10910
Stem radius (µm)
12
00
12
Time (Hours)
2023−03−18 to 2023−03−19
Phase duration = 720
Amplitude = 4
Slope = 1e−04

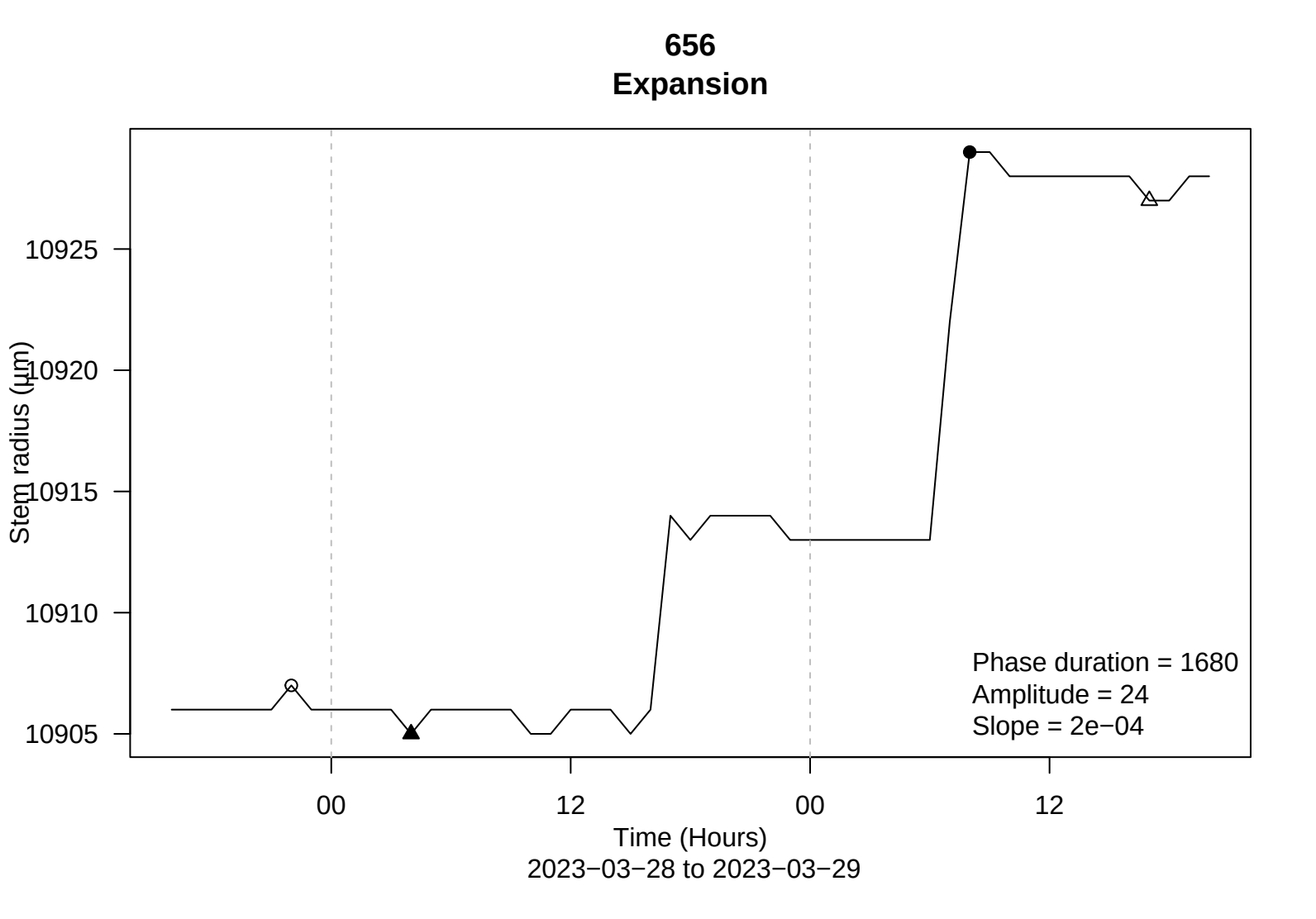

656
Shrinkage
10920
10910
10900
10890
10880
10870
10860
Stem radius (µm)
Phase duration = 1320
Amplitude = −14
Slope = −1e−04
12
00
12
00
Time (Hours)
2023−03−21 to 2023−03−22

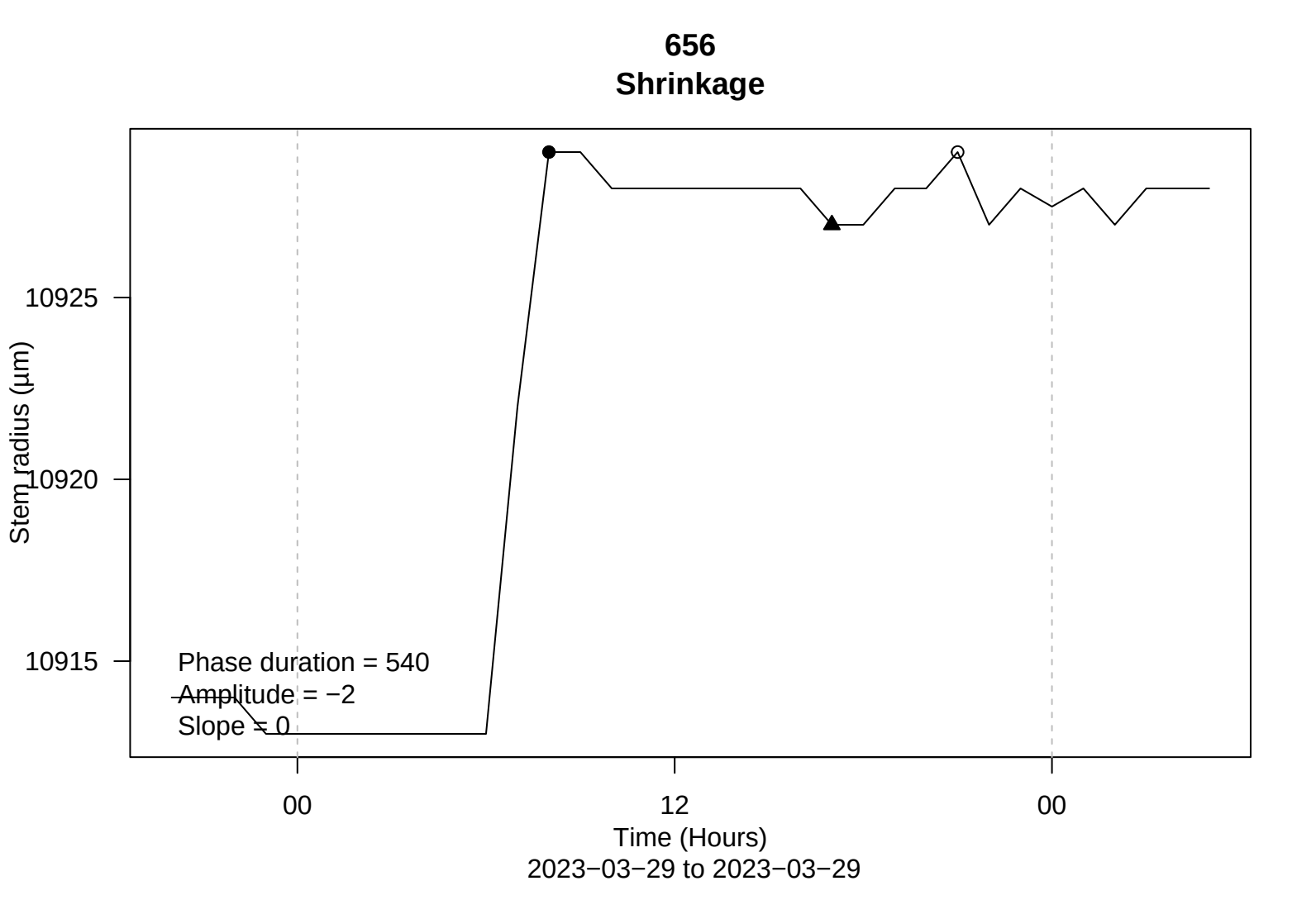

656
Expansion
10900
10890
10880
10870
10860
Stem radius (µm)
Phase duration = 3600
Amplitude = 53
Slope = 2e−04
00
00
00
Time (Hours)
2023−03−22 to 2023−03−25

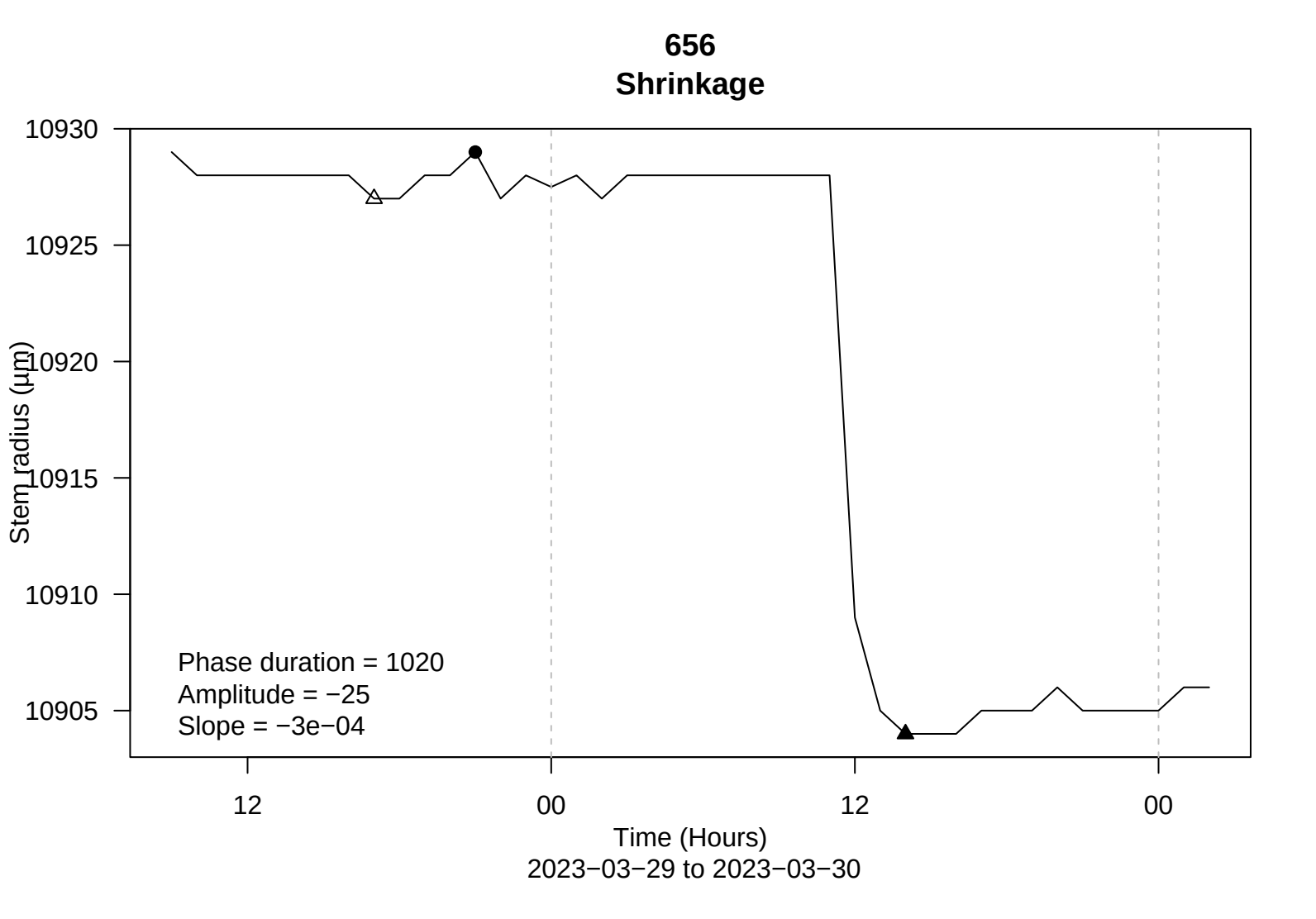

656
Shrinkage
10907.0
10906.5
10906.0
10905.5
10905.0
Stem radius (µm)
Phase duration = 1140
Amplitude = −2
Slope = 0
00
12
00
12
Time (Hours)
2023−03−26 to 2023−03−27

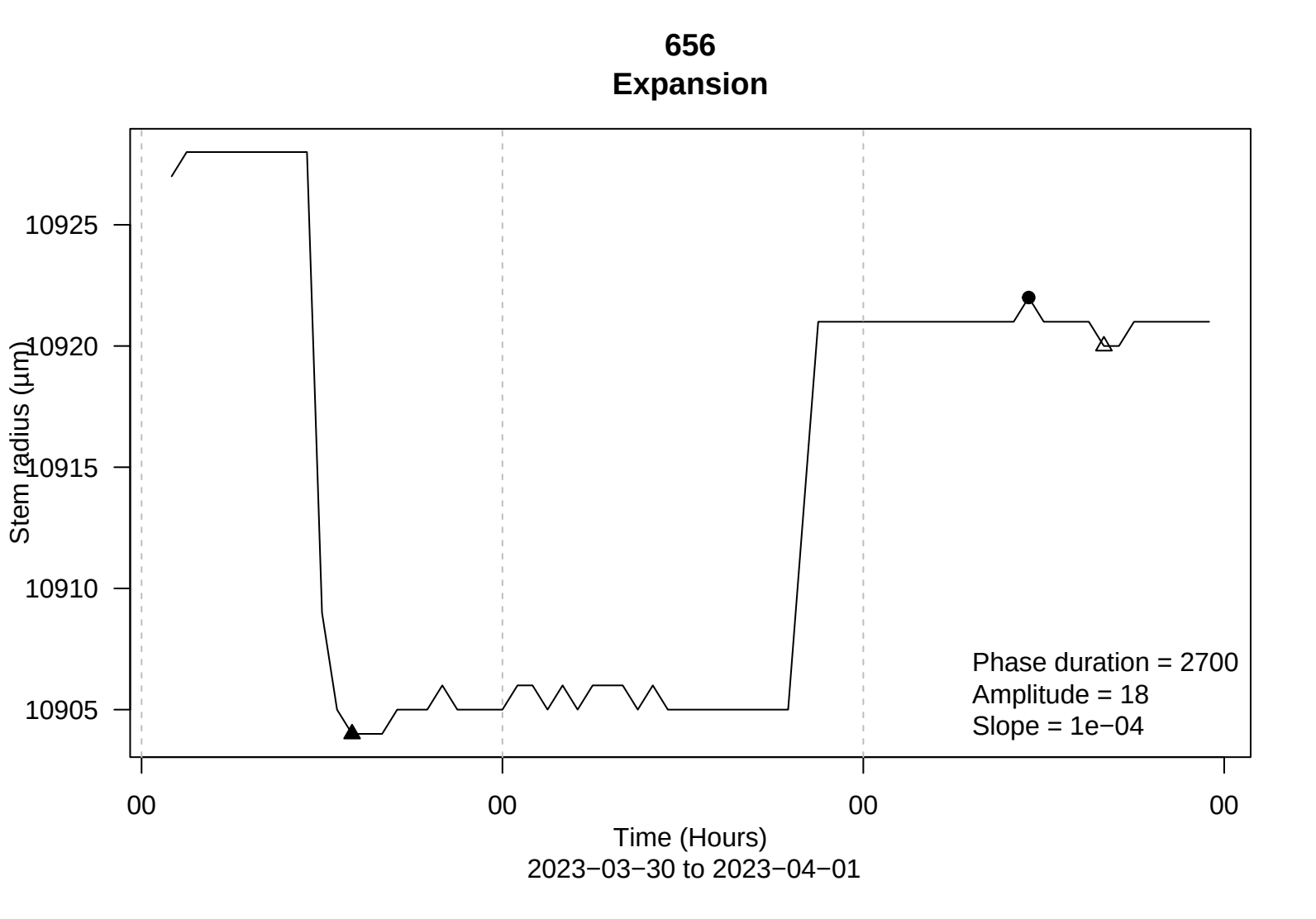

656
Expansion
10907.0
10906.5
10906.0
10905.5
10905.0
Stem radius (µm)
Phase duration = 900
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−03−27 to 2023−03−27

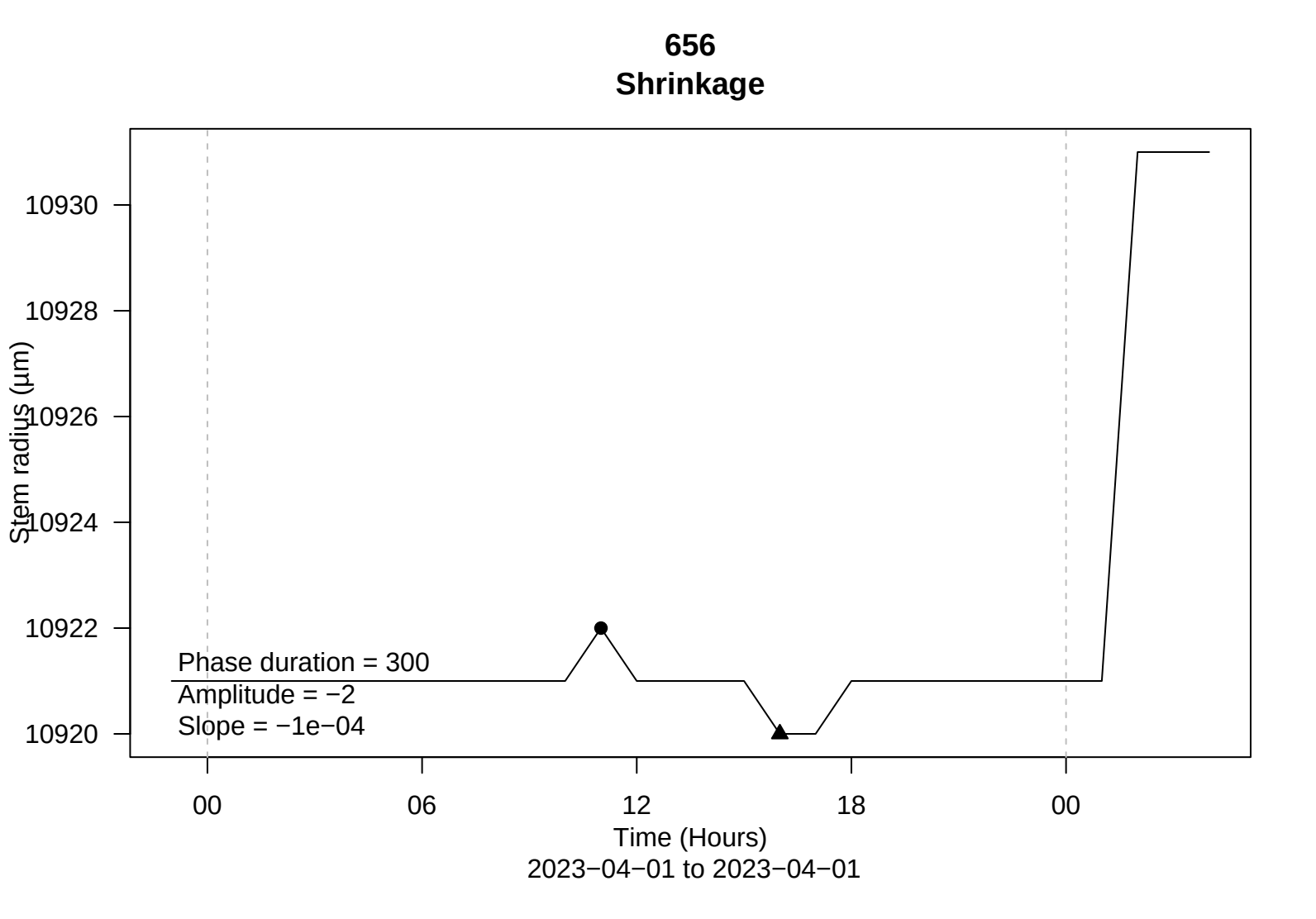

656
Shrinkage
10907.0
10906.5
10906.0
10905.5
10905.0
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = −1e−04
12
18
00
06
12
Time (Hours)
2023−03−27 to 2023−03−28

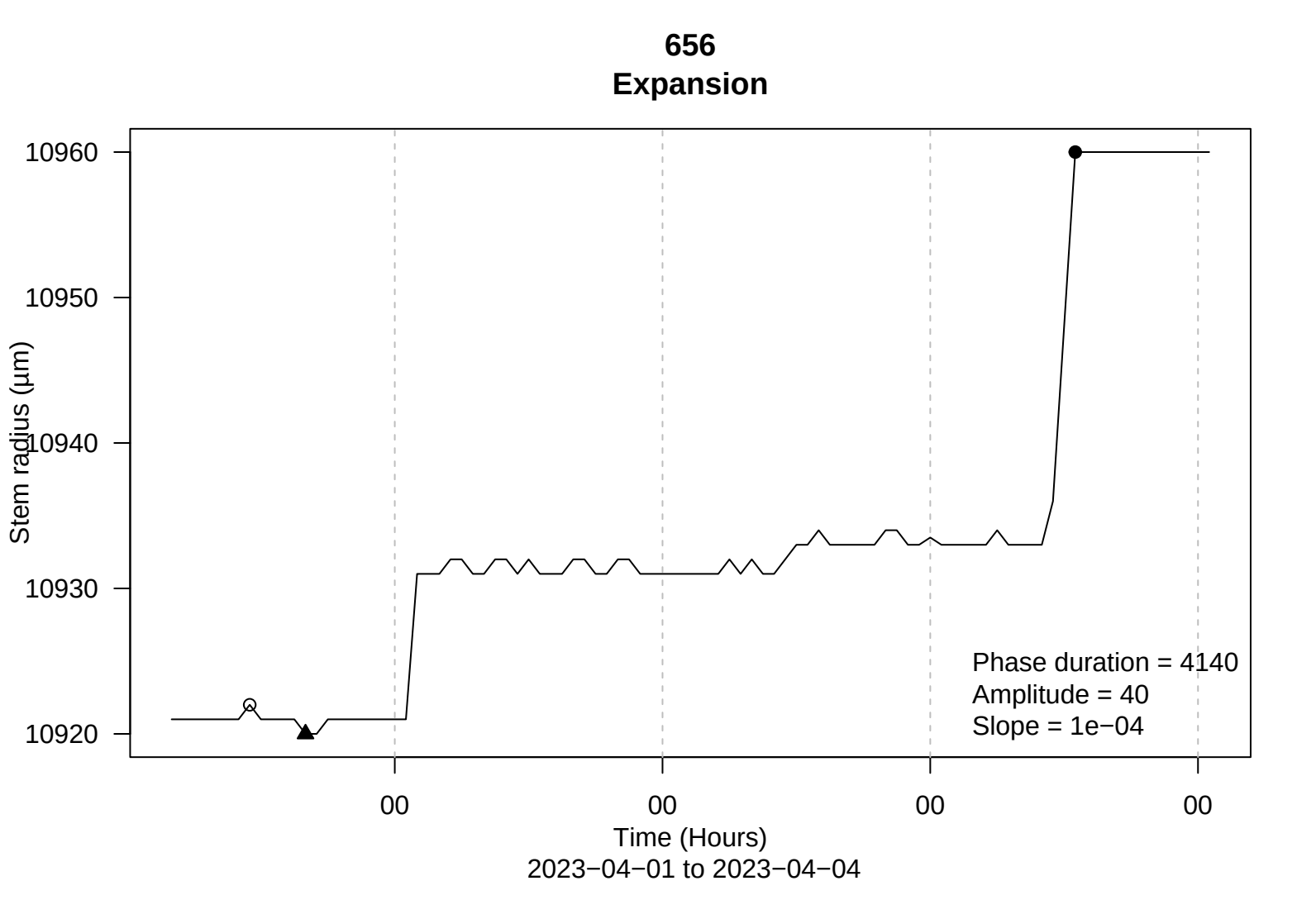

656
Expansion
10925
10920
10915
10910
10905
Stem radius (µm)
00
12
00
12
Time (Hours)
2023−03−28 to 2023−03−29
Phase duration = 1680
Amplitude = 24
Slope = 2e−04

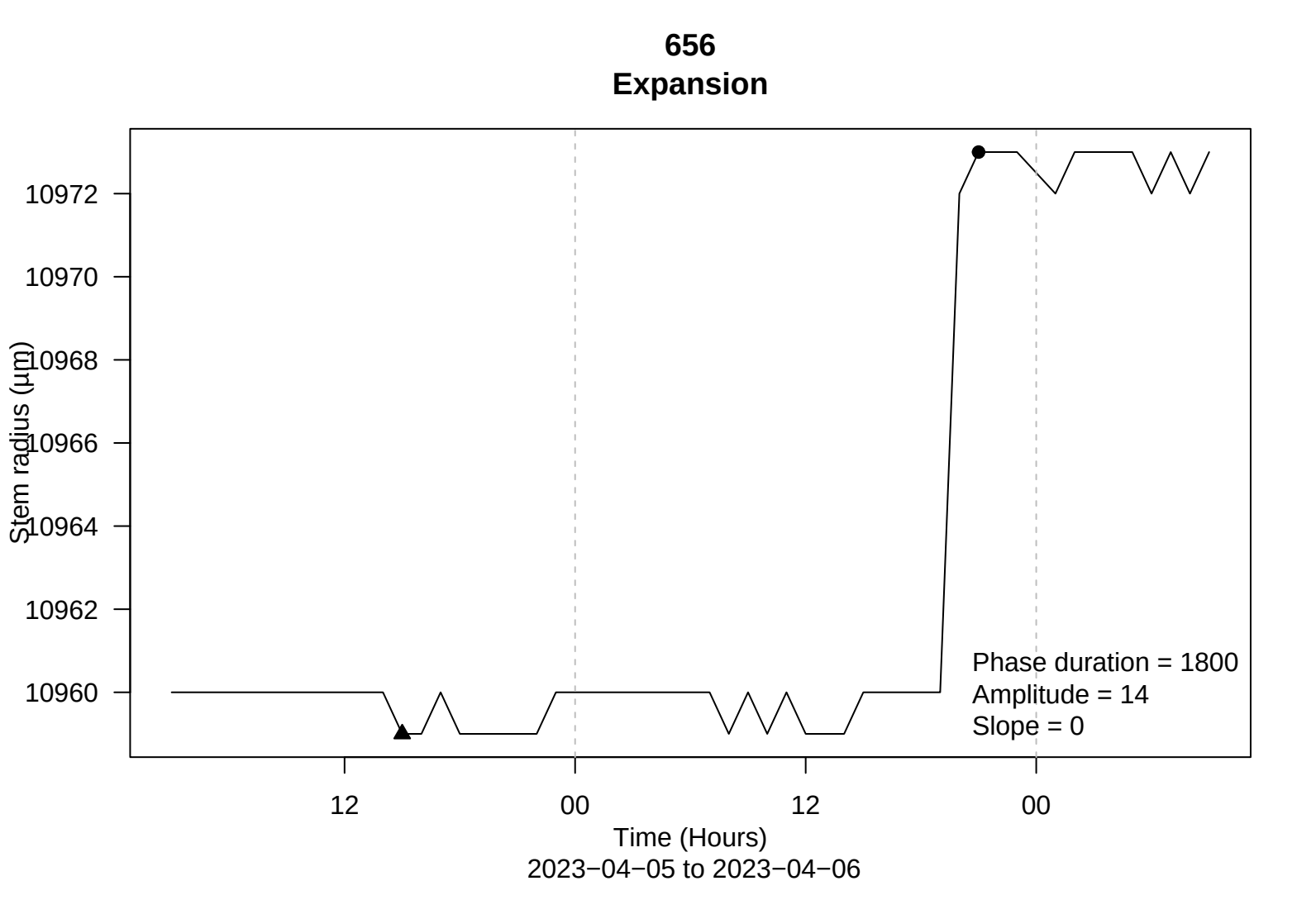

656
Shrinkage
10925
10920
10915
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−03−29 to 2023−03−29

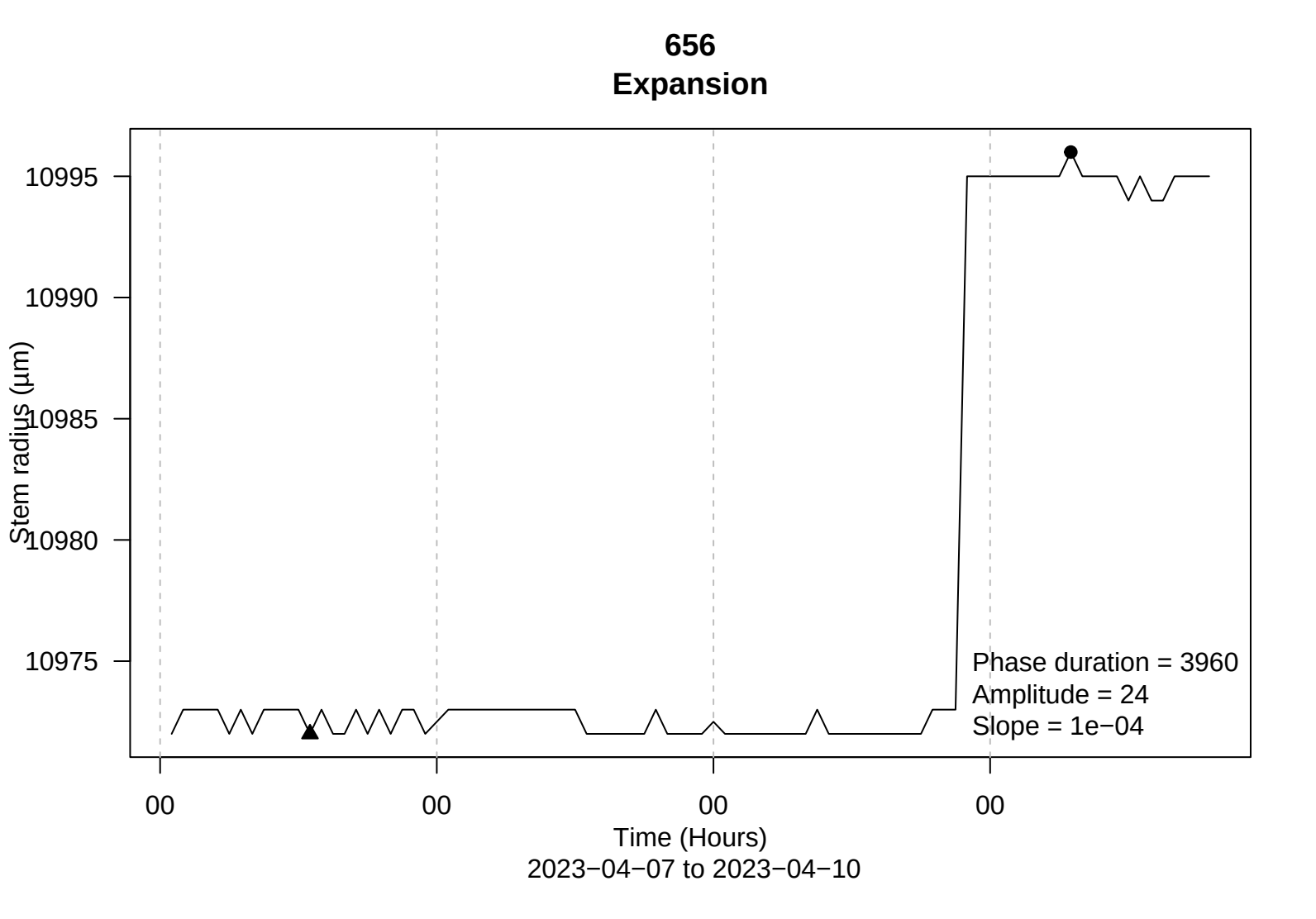

656
Shrinkage
10930
10925
10920
10915
10910
10905
Stem radius (µm)
Phase duration = 1020
Amplitude = −25
Slope = −3e−04
12
00
12
00
Time (Hours)
2023−03−29 to 2023−03−30

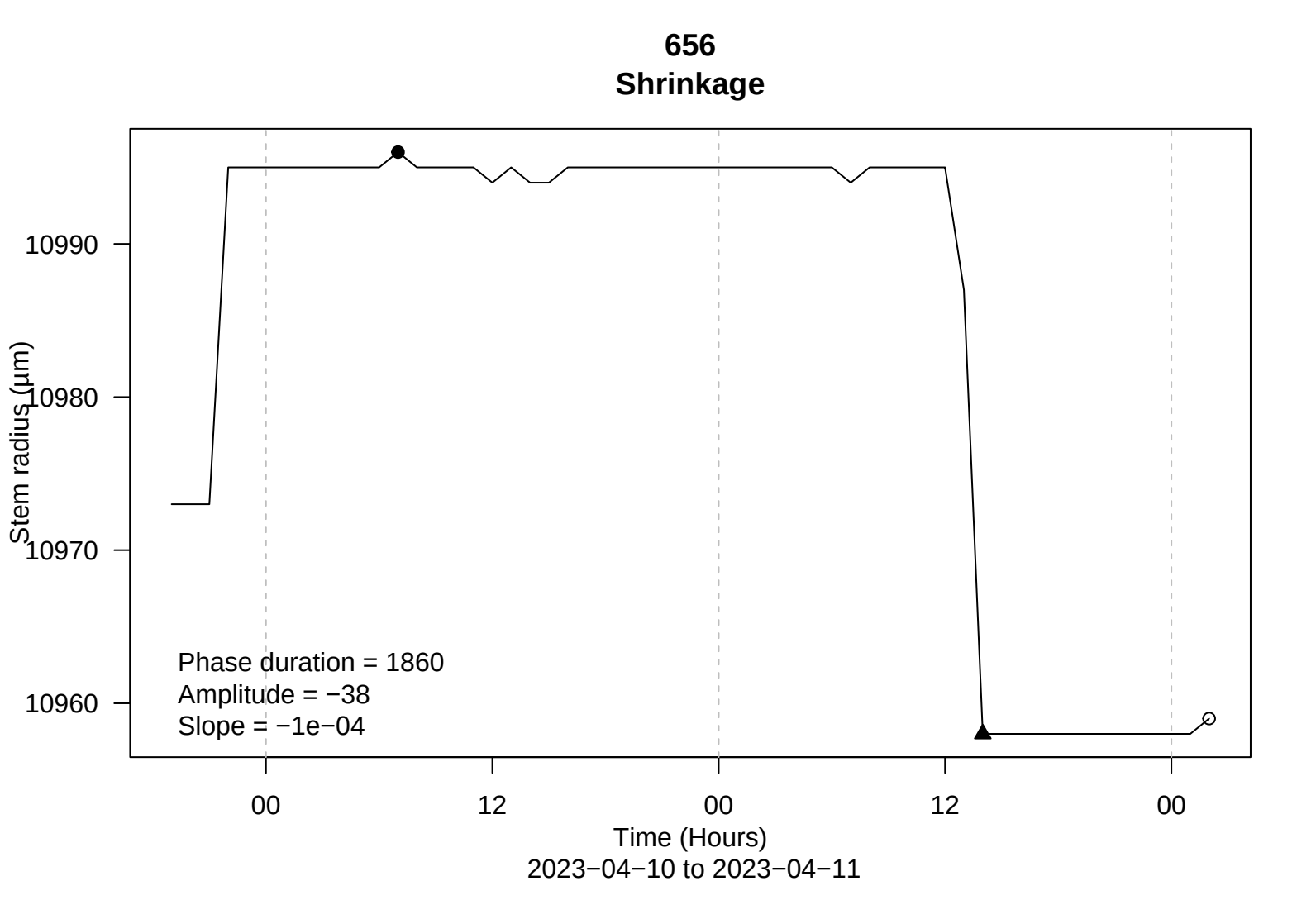

656
Expansion
10925
10920
10915
10910
10905
Stem radius (µm)
Phase duration = 2700
Amplitude = 18
Slope = 1e−04
00
00
00
00
Time (Hours)
2023−03−30 to 2023−04−01

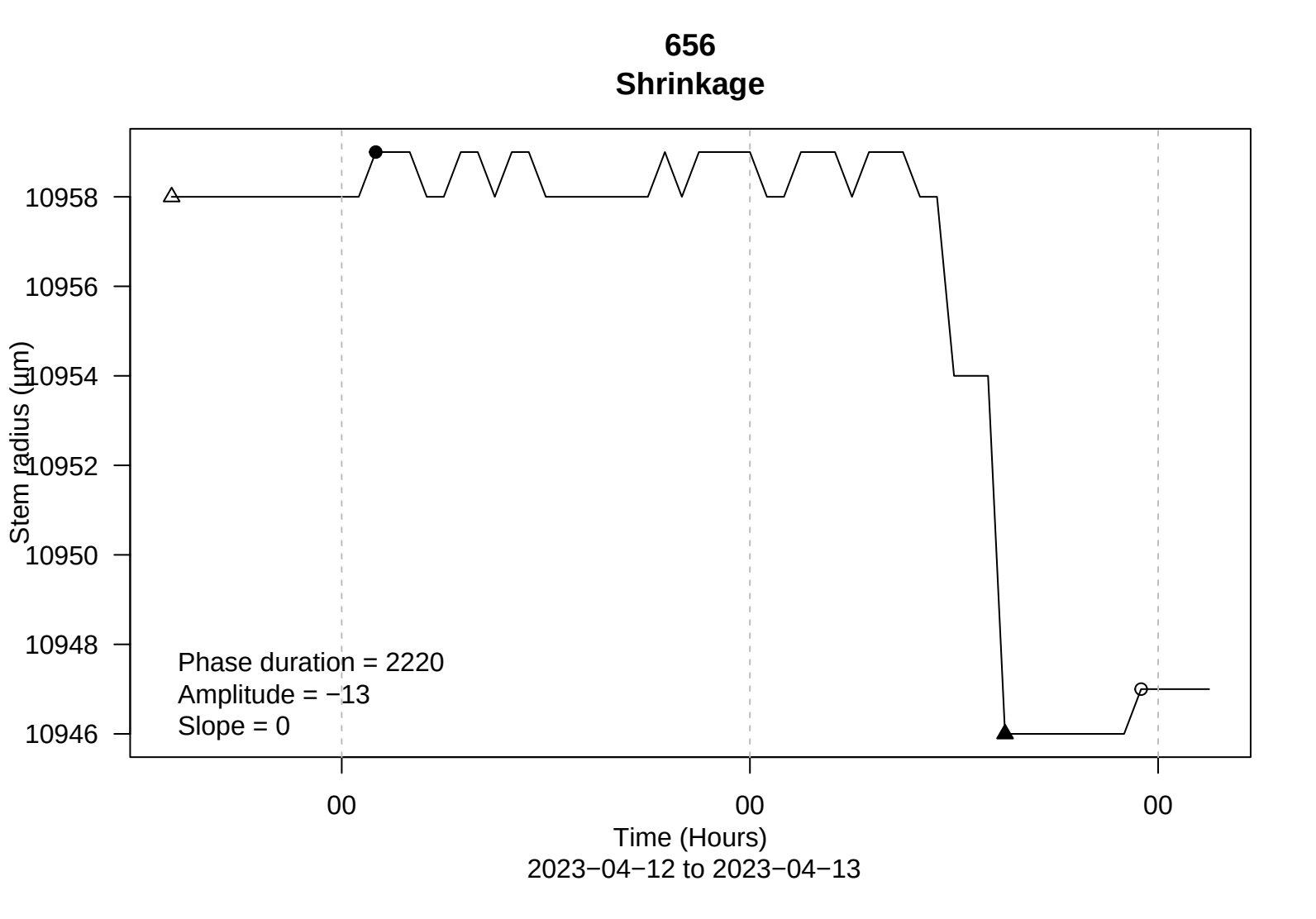

656
Shrinkage
10930
10928
10926
10924
10922
10920
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−04−01 to 2023−04−01

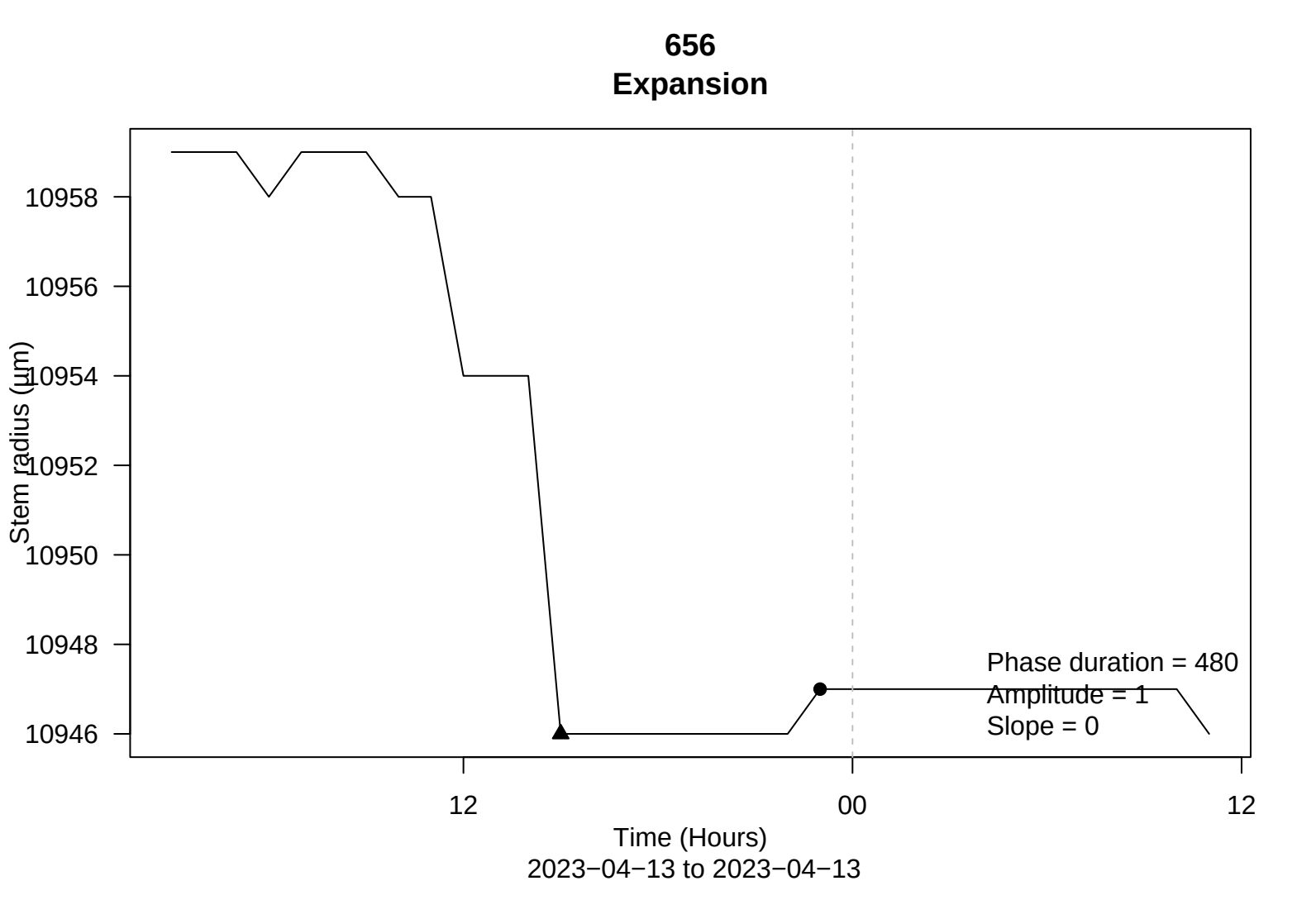

656
Expansion
10960
10950
10940
10930
10920
Stem radius (µm)
Phase duration = 4140
Amplitude = 40
Slope = 1e−04
00
00
00
00
Time (Hours)
2023−04−01 to 2023−04−04

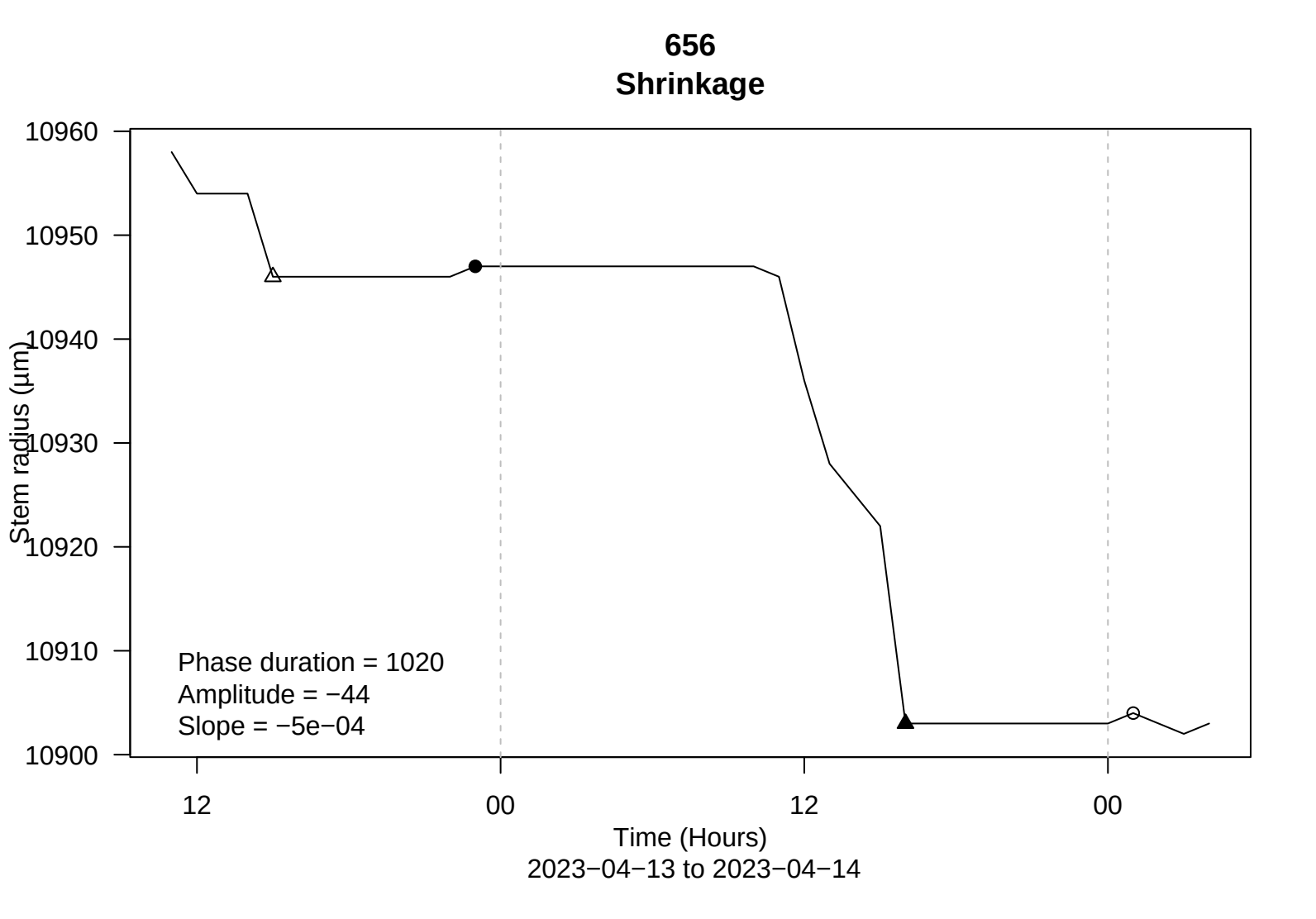

656
Expansion
10972
10970
10968
10966
10964
10962
10960
Stem radius (µm)
Phase duration = 1800
Amplitude = 14
Slope = 0
12
00
12
00
Time (Hours)
2023−04−05 to 2023−04−06

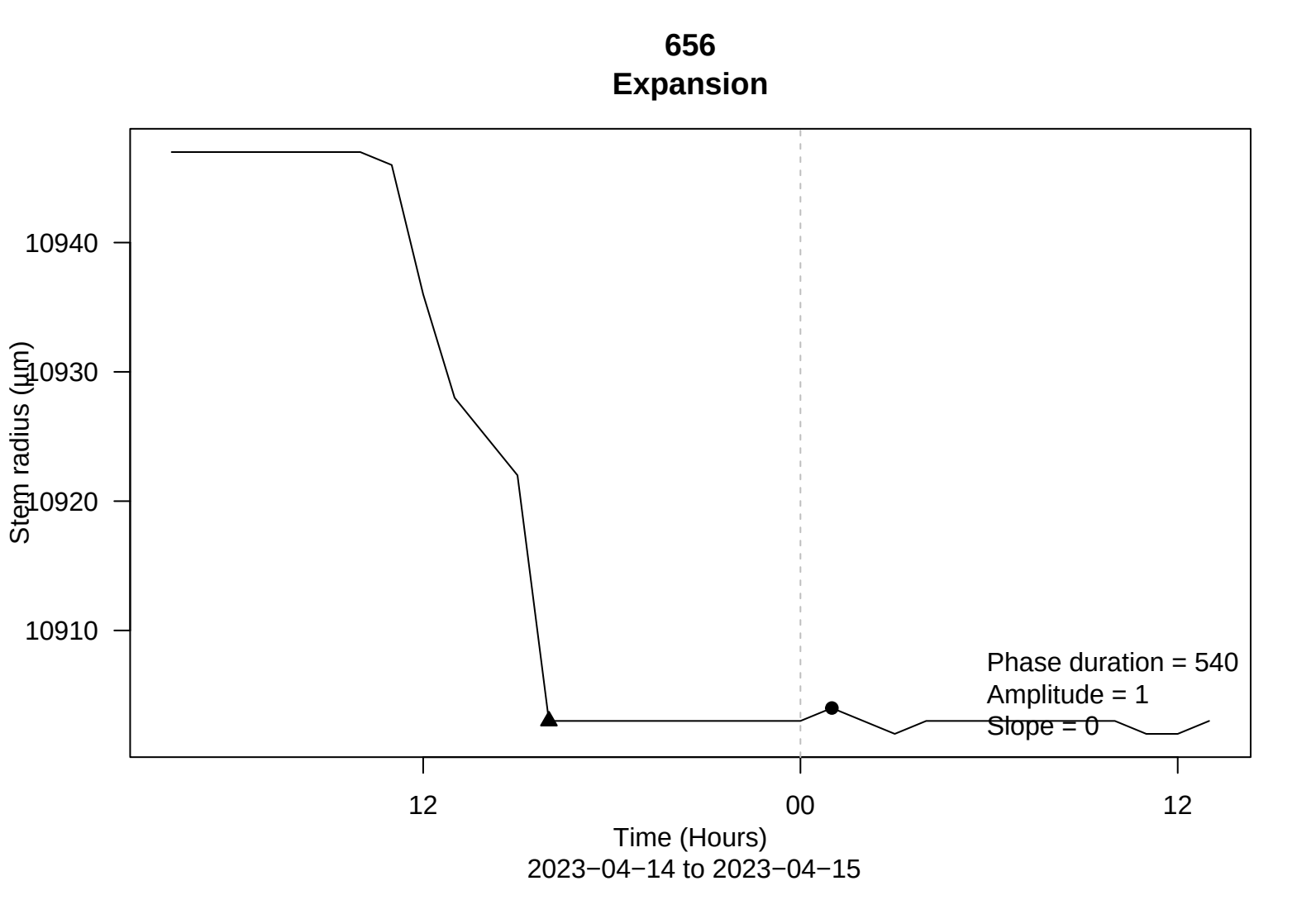

656
Expansion
10995
10990
10985
10980
10975
Stem radius (µm)
Phase duration = 3960
Amplitude = 24
Slope = 1e−04
00
00
00
00
Time (Hours)
2023−04−07 to 2023−04−10

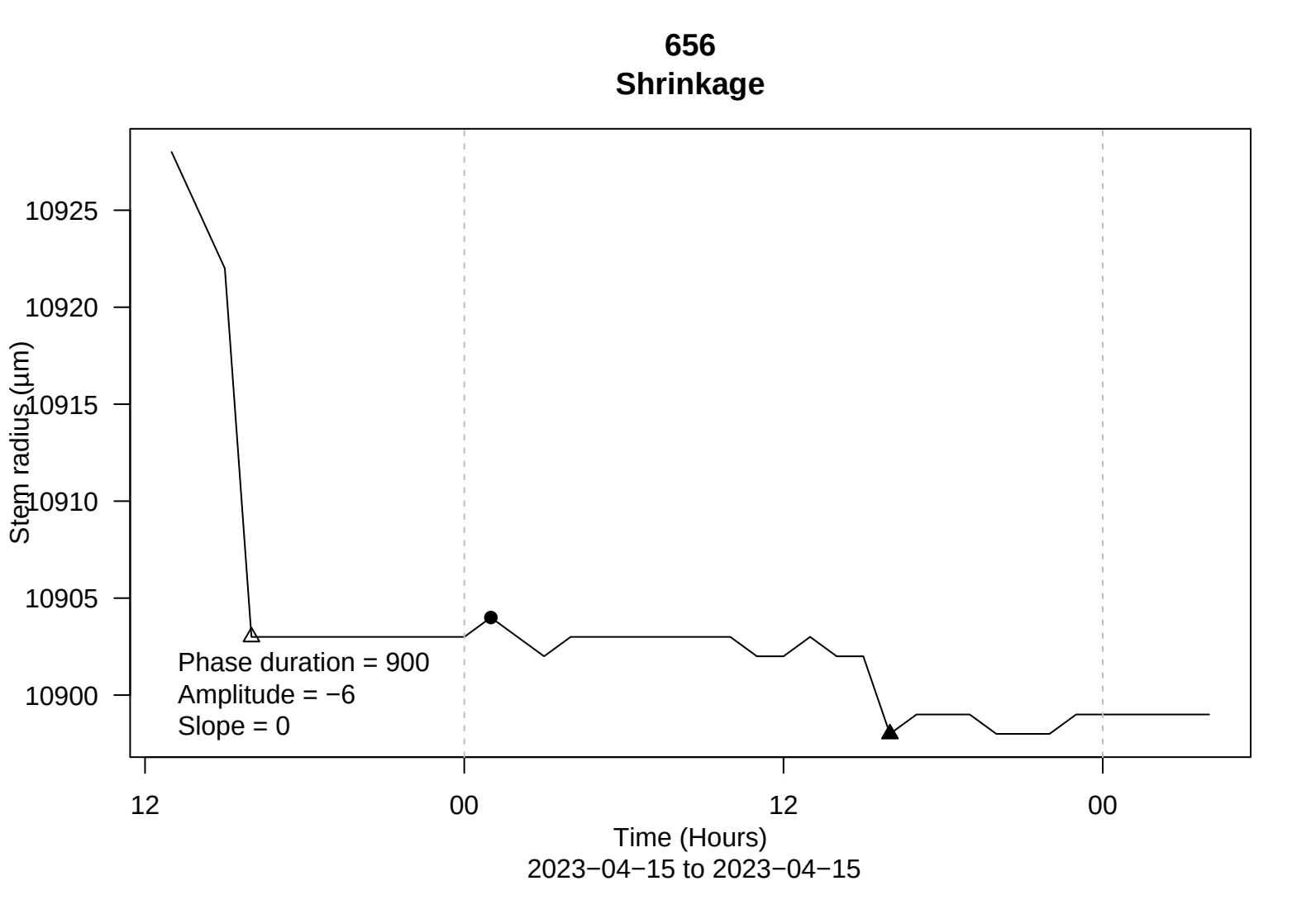

656
Shrinkage
10990
10980
10970
10960
Stem radius (µm)
Phase duration = 1860
Amplitude = −38
Slope = −1e−04
00
12
00
12
00
Time (Hours)
2023−04−10 to 2023−04−11

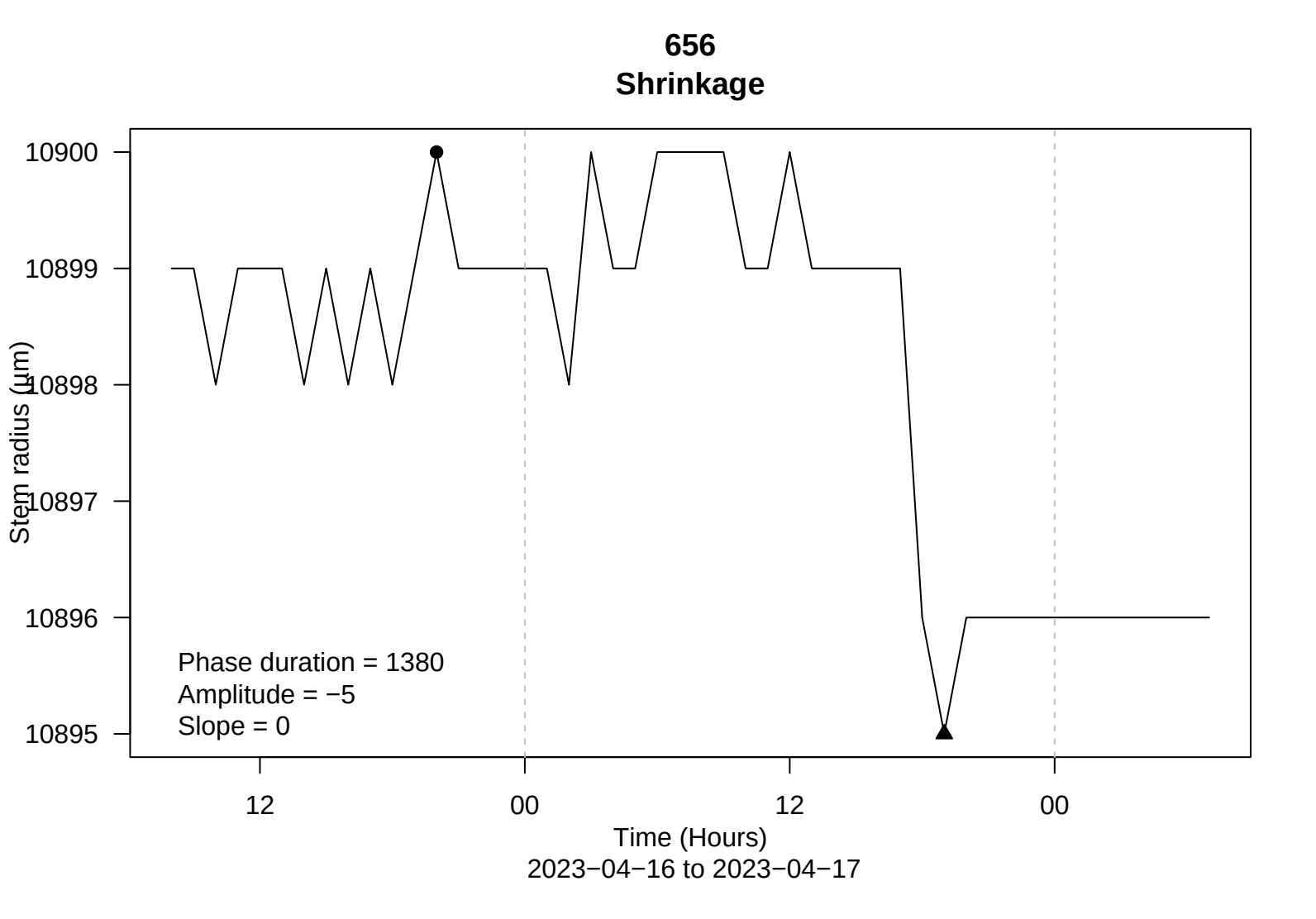

656
Shrinkage
10958
10956
10954
10952
10950
10948
10946
Stem radius (µm)
Phase duration = 2220
Amplitude = −13
Slope = 0
00
00
00
Time (Hours)
2023−04−12 to 2023−04−13

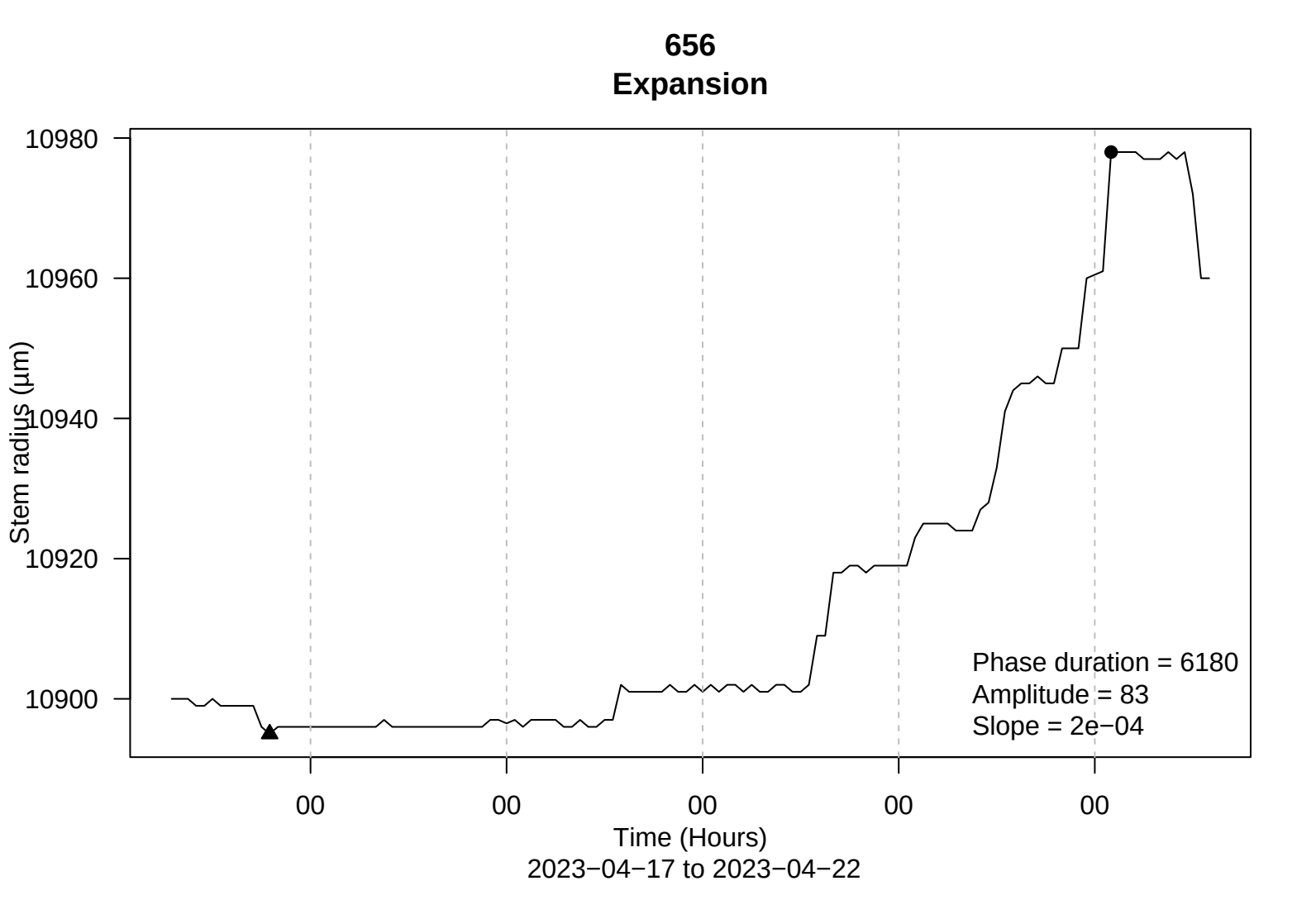

656
Expansion
10958
10956
10954
10952
10950
10948
10946
Stem radius (µm)
Phase duration = 480
Amplitude = 1
Slope = 0
12
00
12
Time (Hours)
2023−04−13 to 2023−04−13

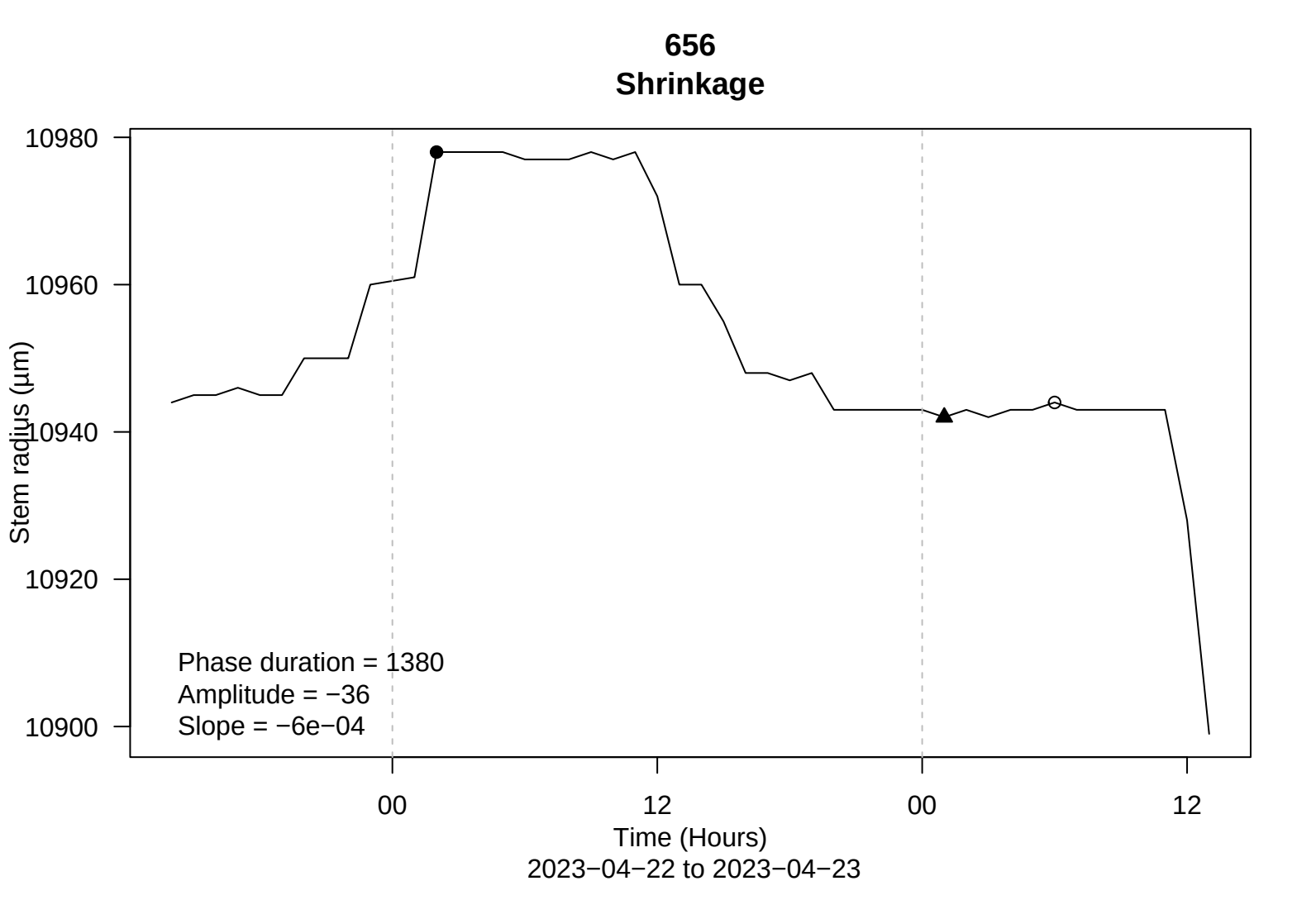

656
Shrinkage
10960
10950
10940
10930
10920
10910
10900
Stem radius (µm)
Phase duration = 1020
Amplitude = −44
Slope = −5e−04
12
00
12
00
Time (Hours)
2023−04−13 to 2023−04−14

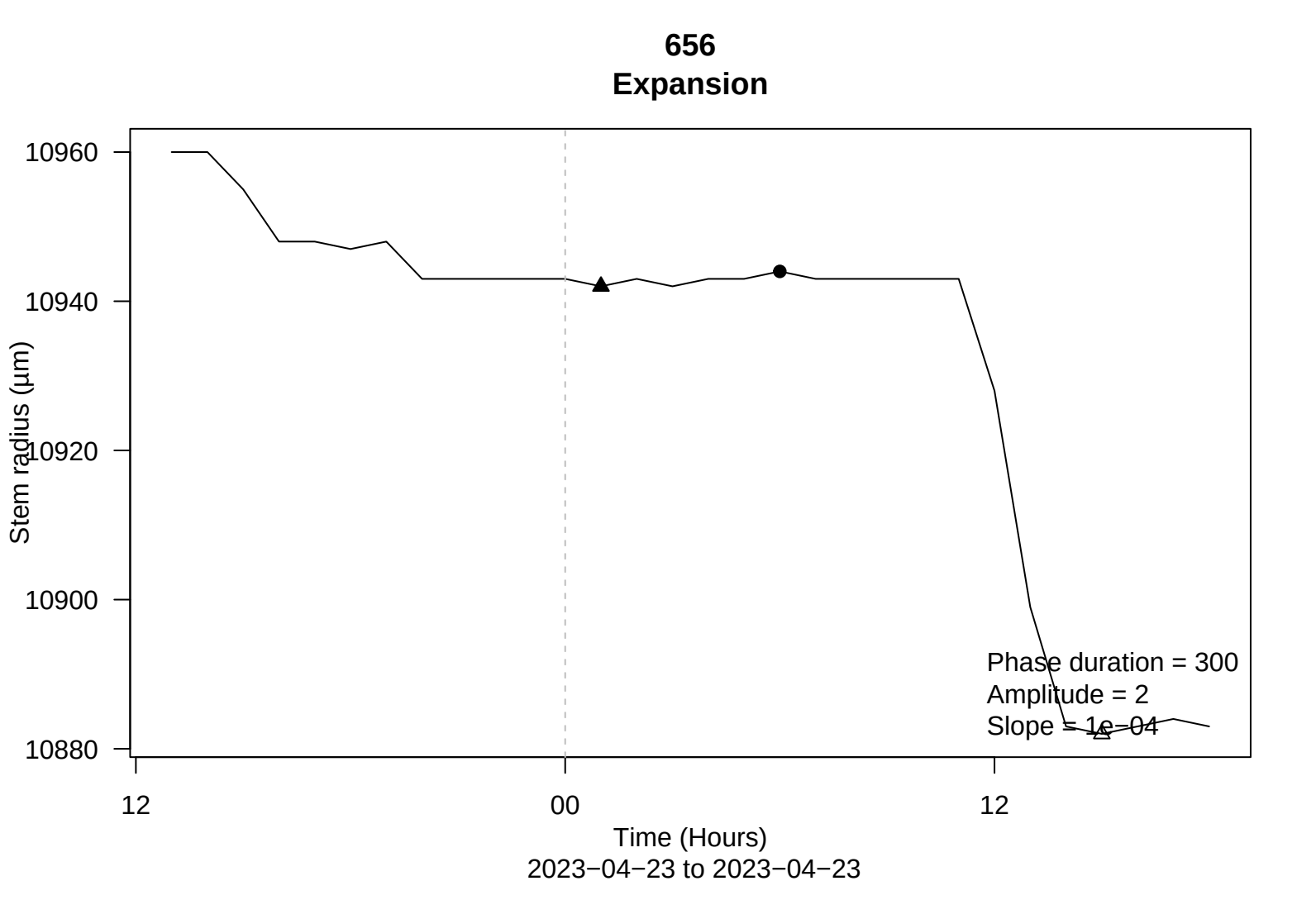

656
Expansion
10940
10930
10920
10910
Stem radius (µm)
Phase duration = 540
Amplitude = 1
Slope = 0
12
00
12
Time (Hours)
2023−04−14 to 2023−04−15

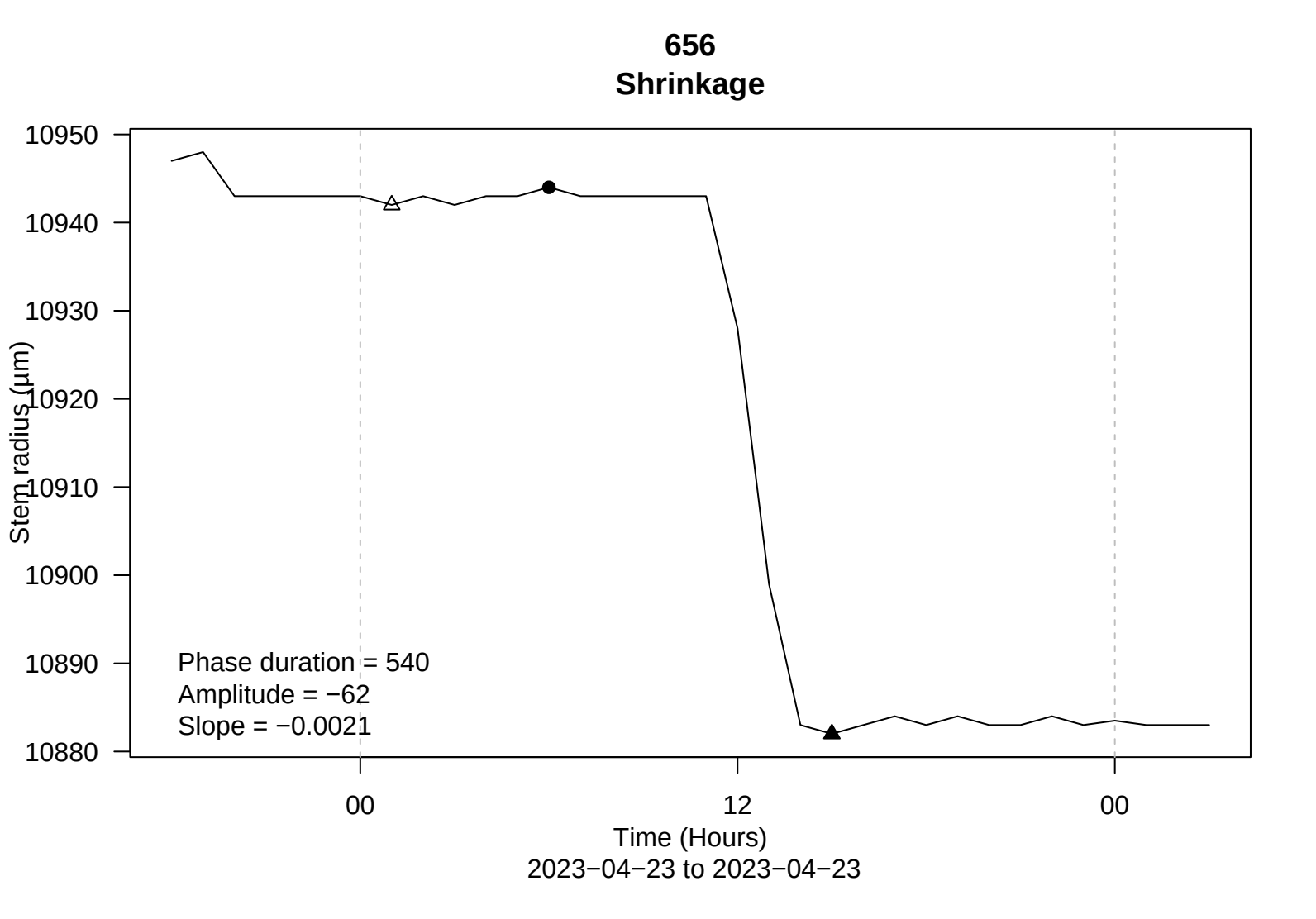

656
Shrinkage
10925
10920
10915
10910
10905
10900
Stem radius (µm)
Phase duration = 900
Amplitude = −6
Slope = 0
12
00
12
00
Time (Hours)
2023−04−15 to 2023−04−15

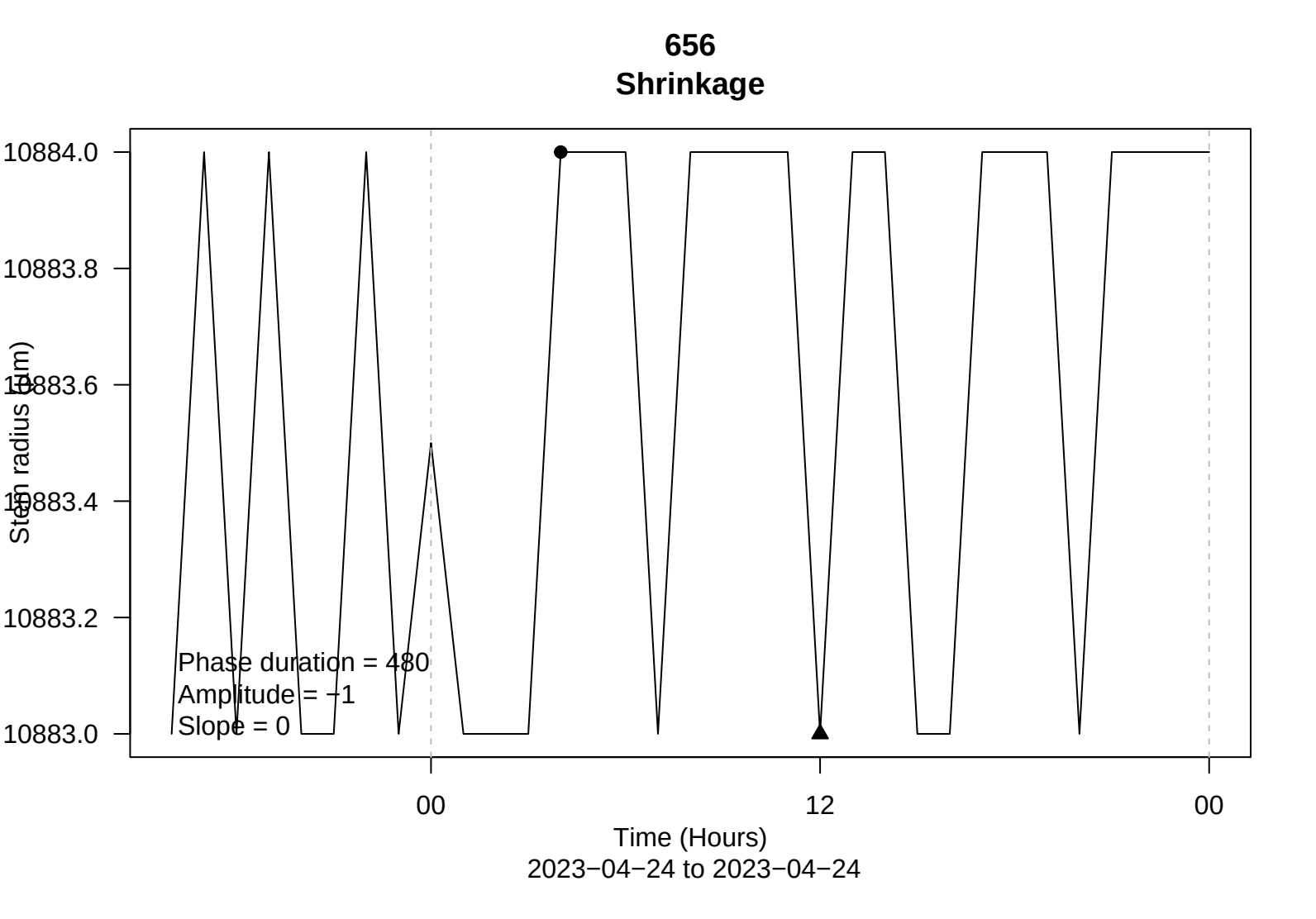

656
Shrinkage
10900
10899
10898
10897
10896
10895
Stem radius (µm)
Phase duration = 1380
Amplitude = −5
Slope = 0
12
00
12
00
Time (Hours)
2023−04−16 to 2023−04−17

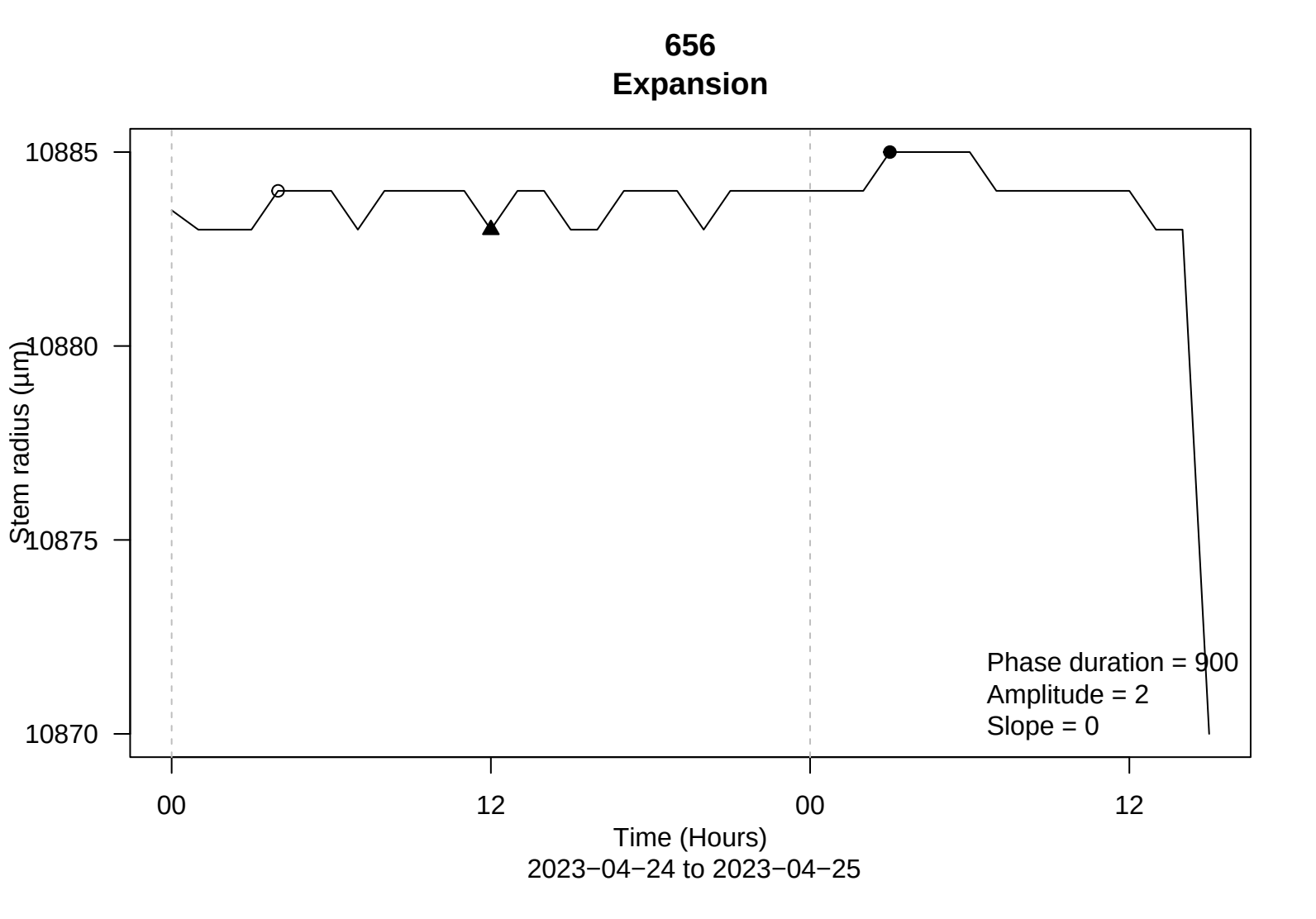

656
Expansion
10980
10960
10940
10920
10900
Stem radius (µm)
Phase duration = 6180
Amplitude = 83
Slope = 2e−04
00
00
00
00
00
Time (Hours)
2023−04−17 to 2023−04−22

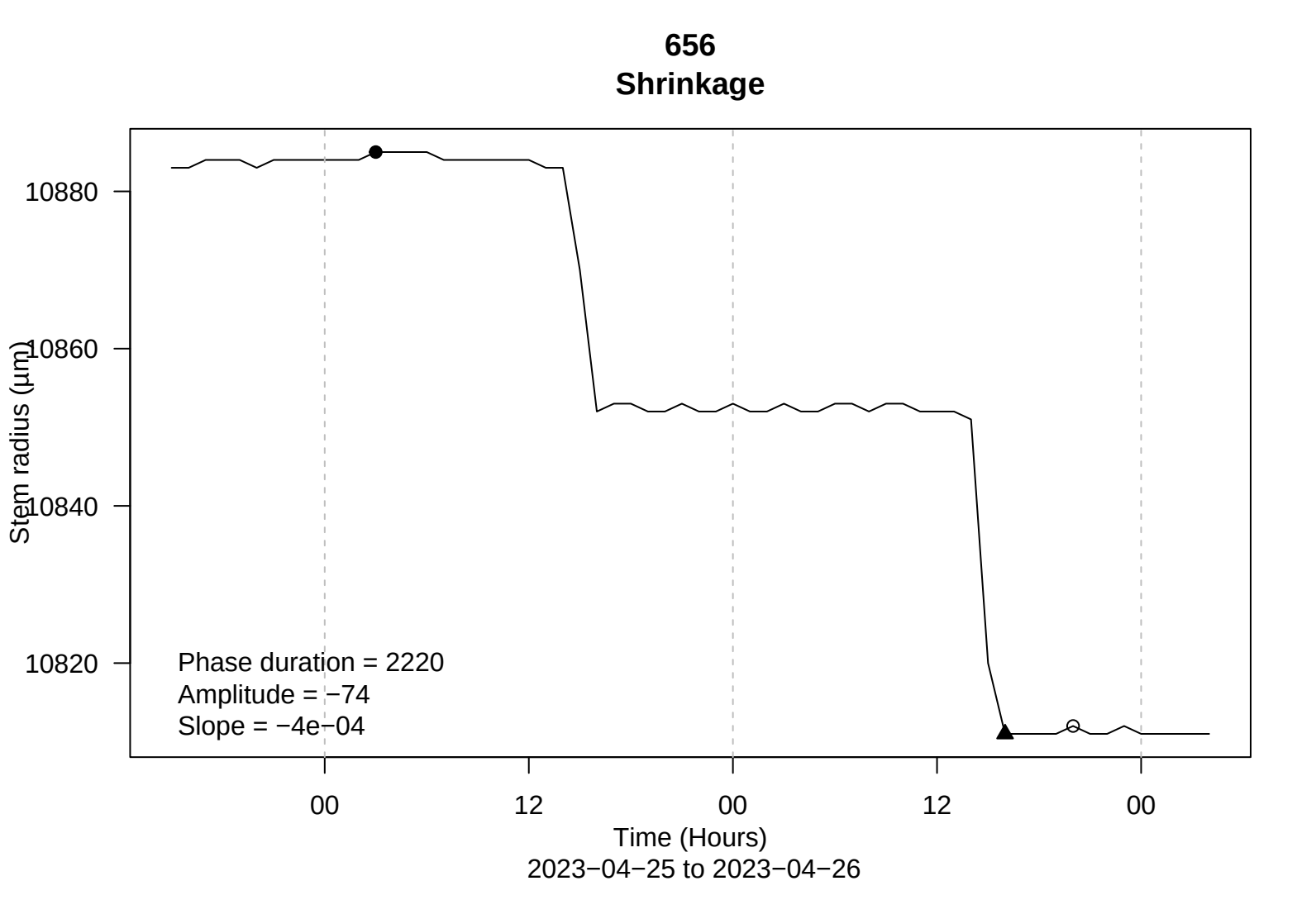

656
Shrinkage
10980
10960
10940
10920
10900
Stem radius (µm)
Phase duration = 1380
Amplitude = −36
Slope = −6e−04
00
12
00
12
Time (Hours)
2023−04−22 to 2023−04−23

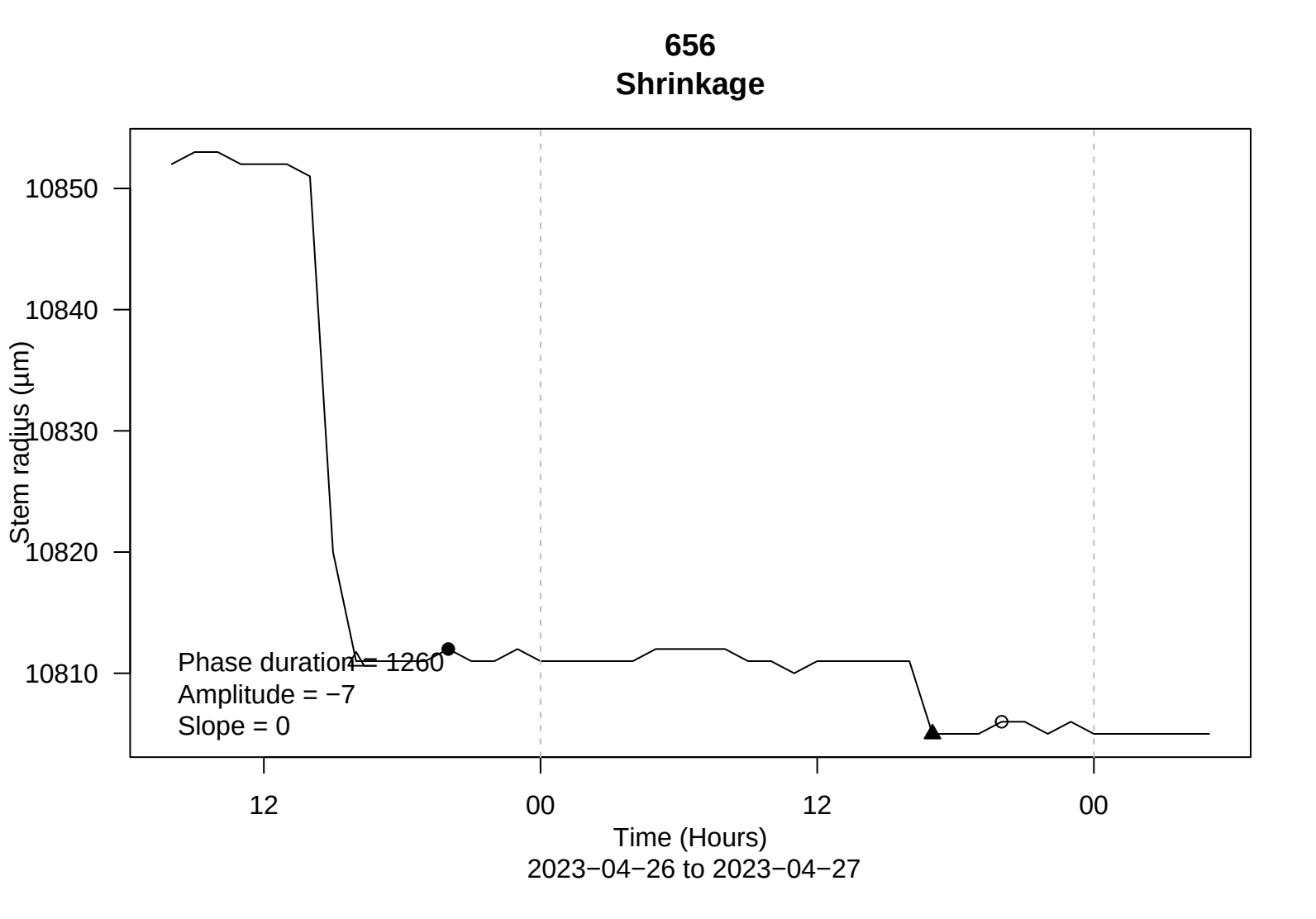

656
Expansion
10960
10940
10920
10900
10880
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−23 to 2023−04−23
Phase duration = 300
Amplitude = 2
Slope = 1e−04

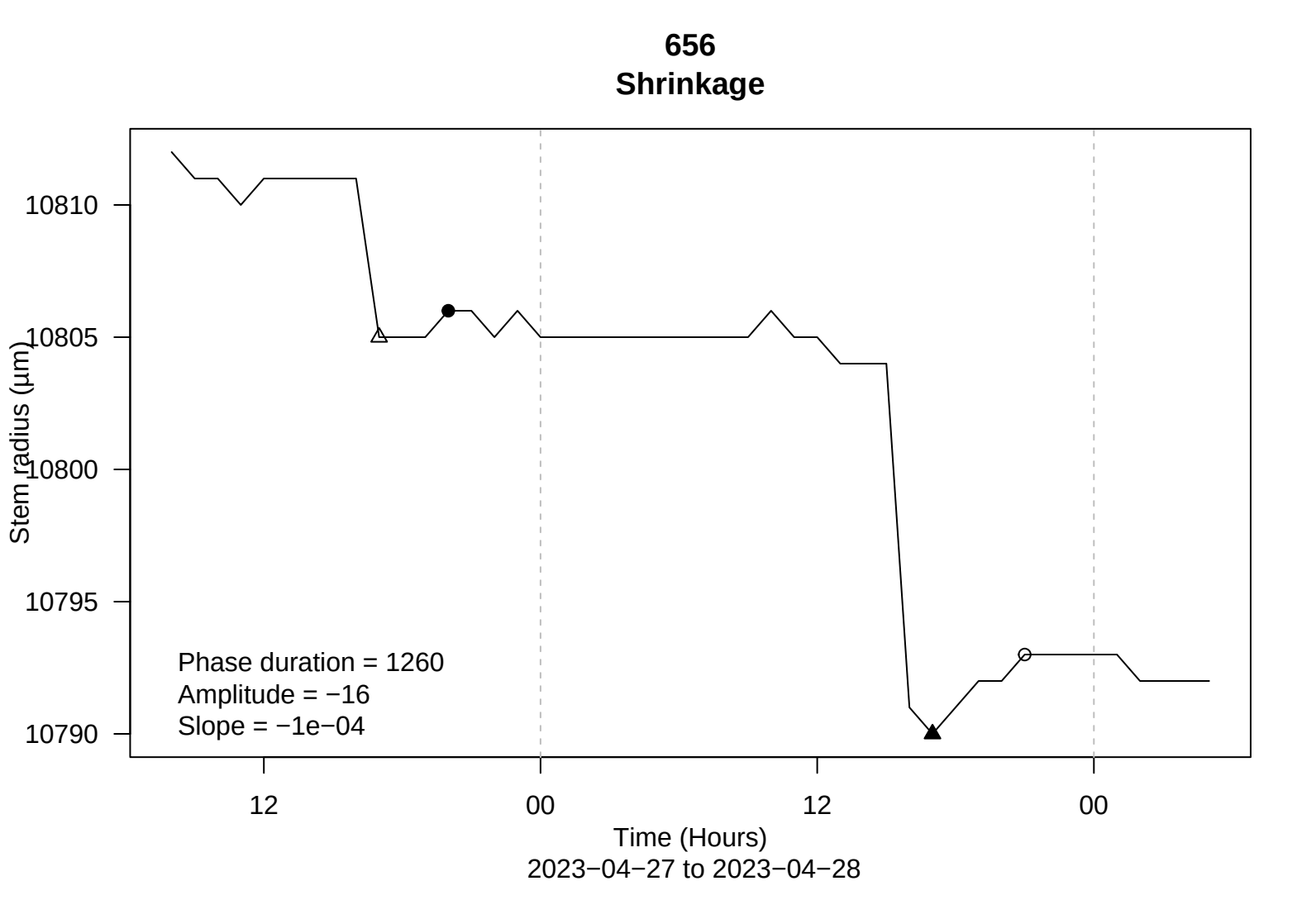

656
Shrinkage
10950
10940
10930
10920
10910
10900
10890
10880
Stem radius (µm)
Phase duration = 540
Amplitude = −62
Slope = −0.0021
00
12
00
Time (Hours)
2023−04−23 to 2023−04−23

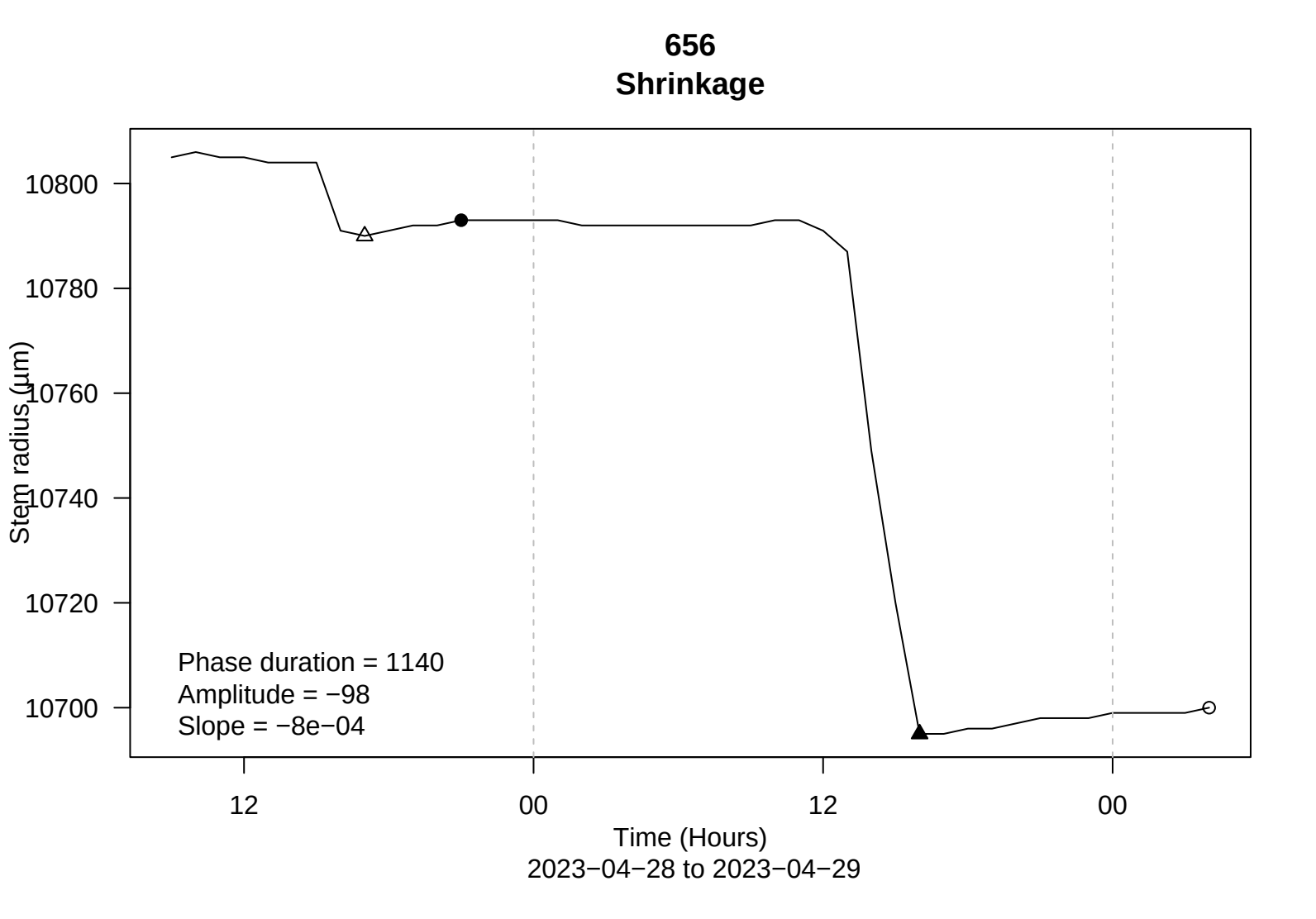

656
Shrinkage
10884.0
10883.8
10883.6
10883.4
10883.2
10883.0
Stem radius (µm)
Phase duration = 480
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2023−04−24 to 2023−04−24

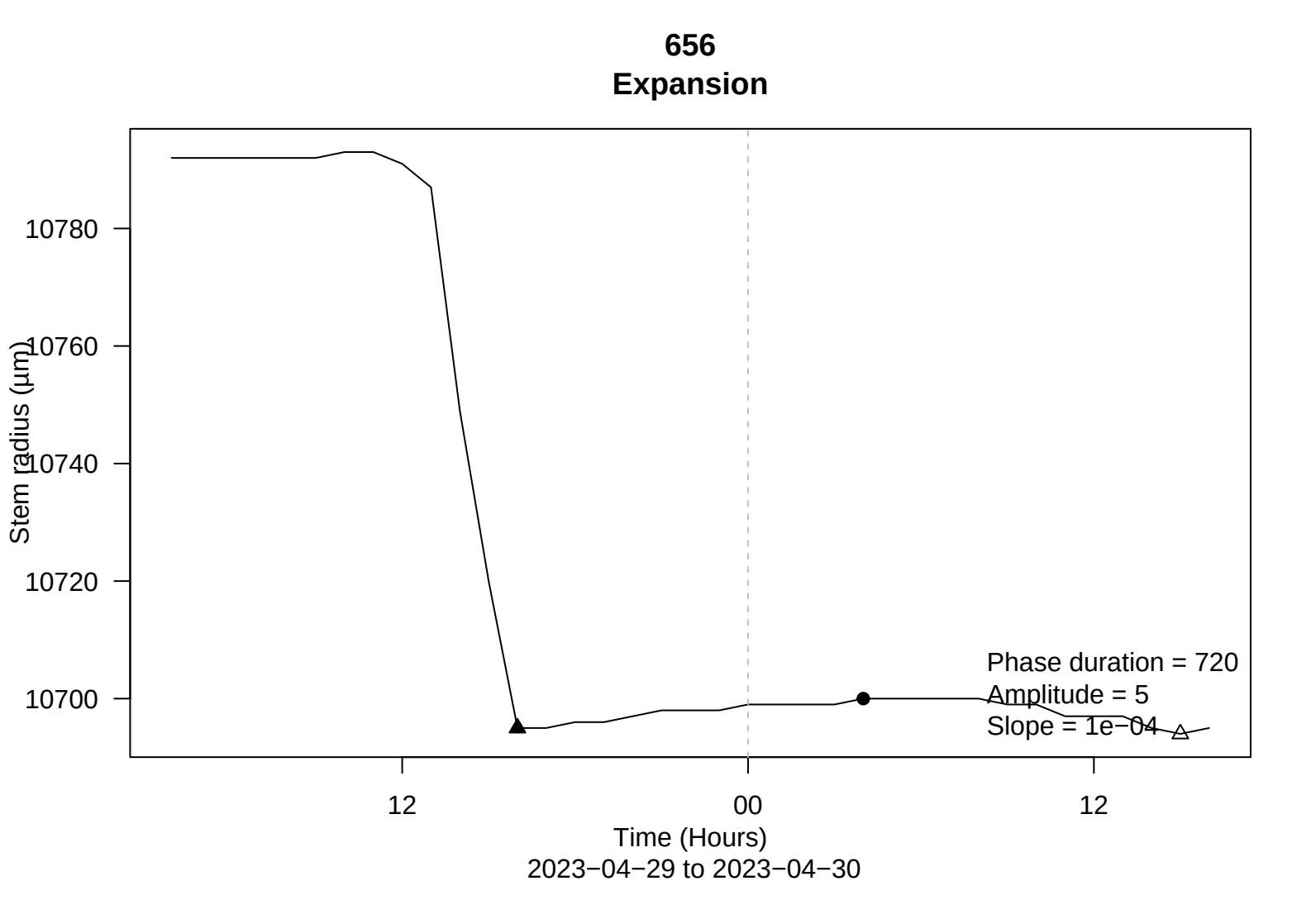

656
Expansion
10885
10880
10875
10870
Stem radius (µm)
Phase duration = 900
Amplitude = 2
Slope = 0
00
12
00
12
Time (Hours)
2023−04−24 to 2023−04−25

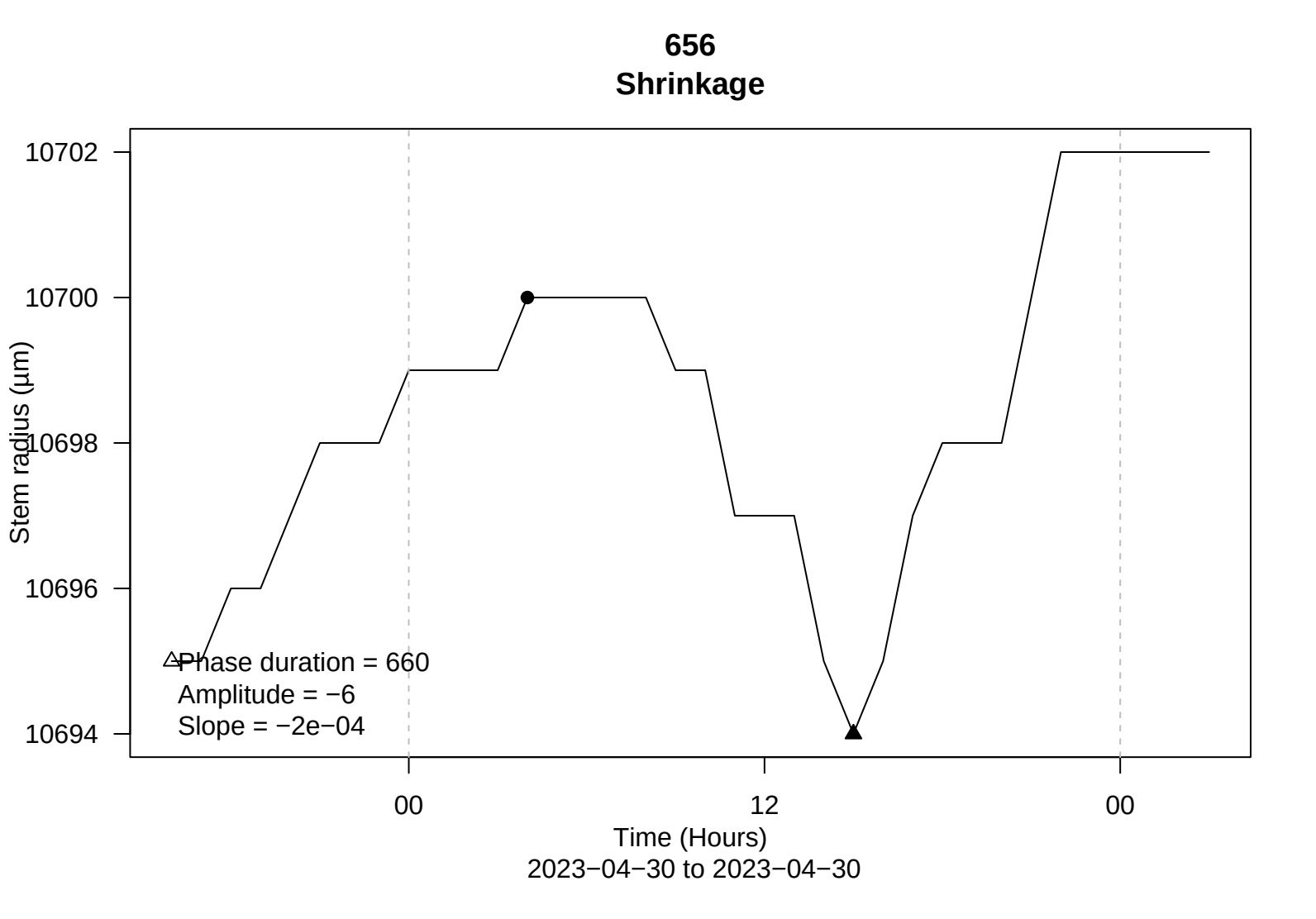

656
Shrinkage
10880
10860
10840
10820
Stem radius (µm)
Phase duration = 2220
Amplitude = −74
Slope = −4e−04
00
12
00
12
00
Time (Hours)
2023−04−25 to 2023−04−26

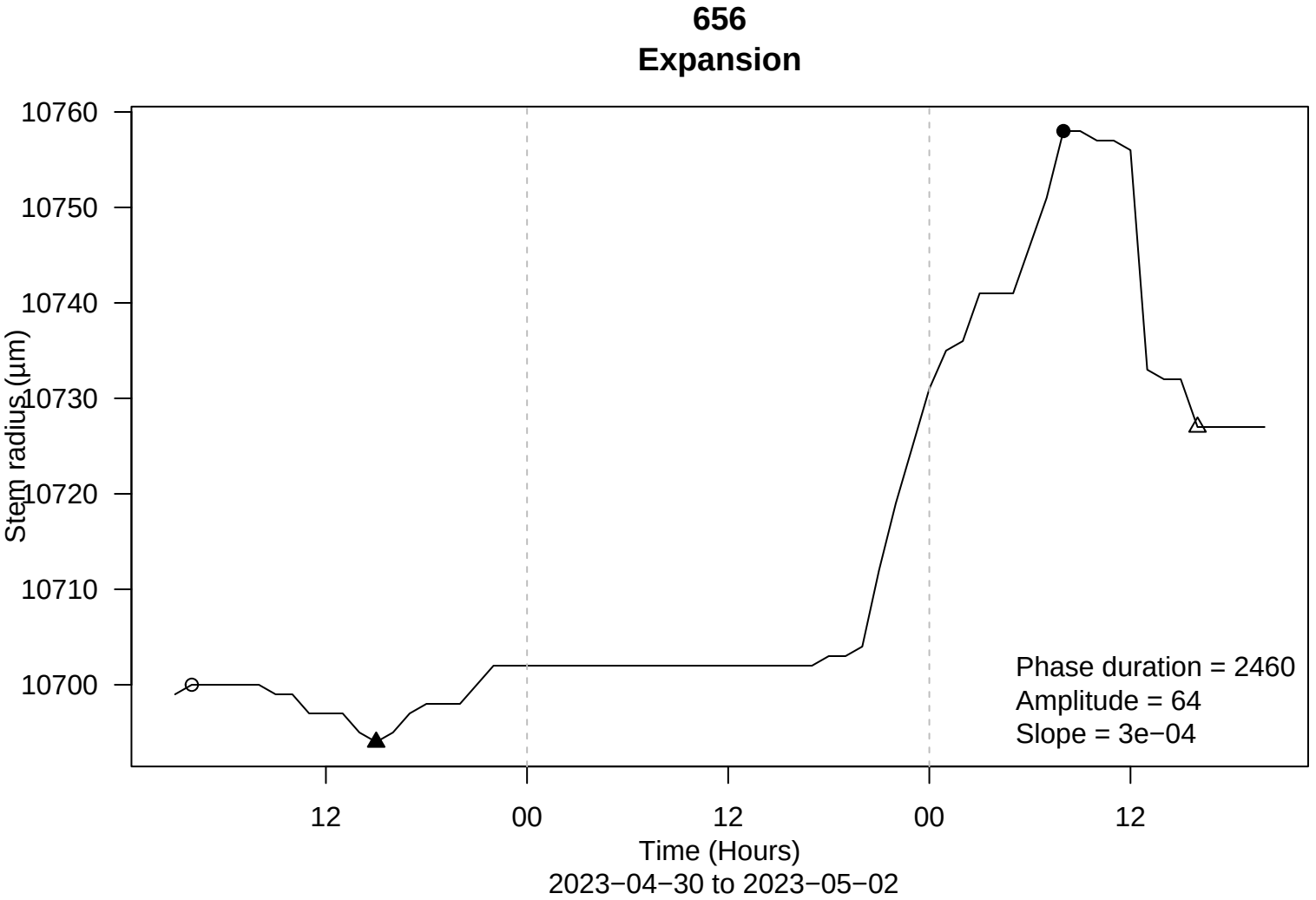

656
Shrinkage
10850
10840
10830
10820
10810
Stem radius (µm)
Phase duration = 1260
Amplitude = −7
Slope = 0
12
00
12
00
Time (Hours)
2023−04−26 to 2023−04−27

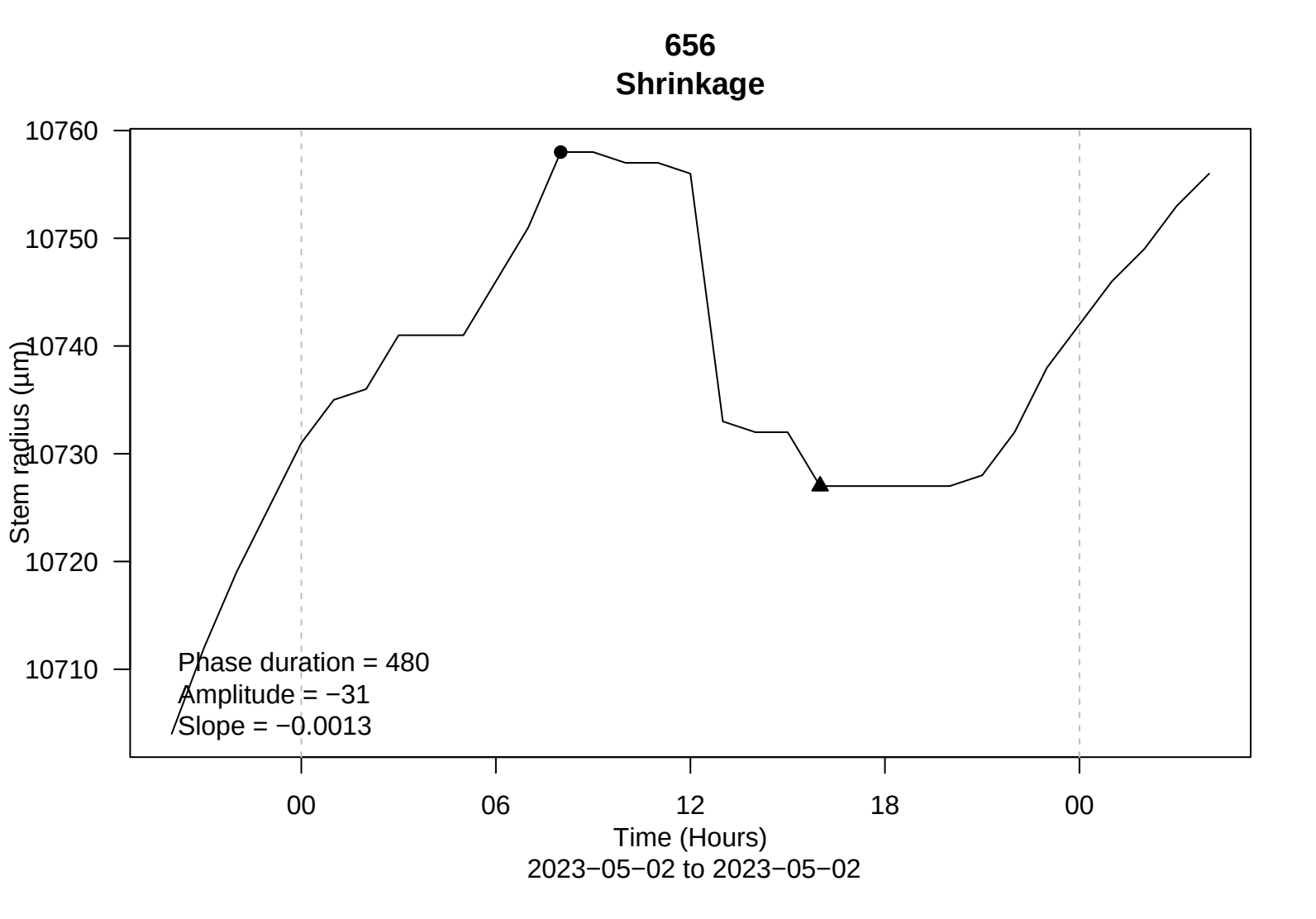

656
Shrinkage
10810
10805
10800
10795
10790
Stem radius (µm)
Phase duration = 1260
Amplitude = −16
Slope = −1e−04
12
00
12
00
Time (Hours)
2023−04−27 to 2023−04−28

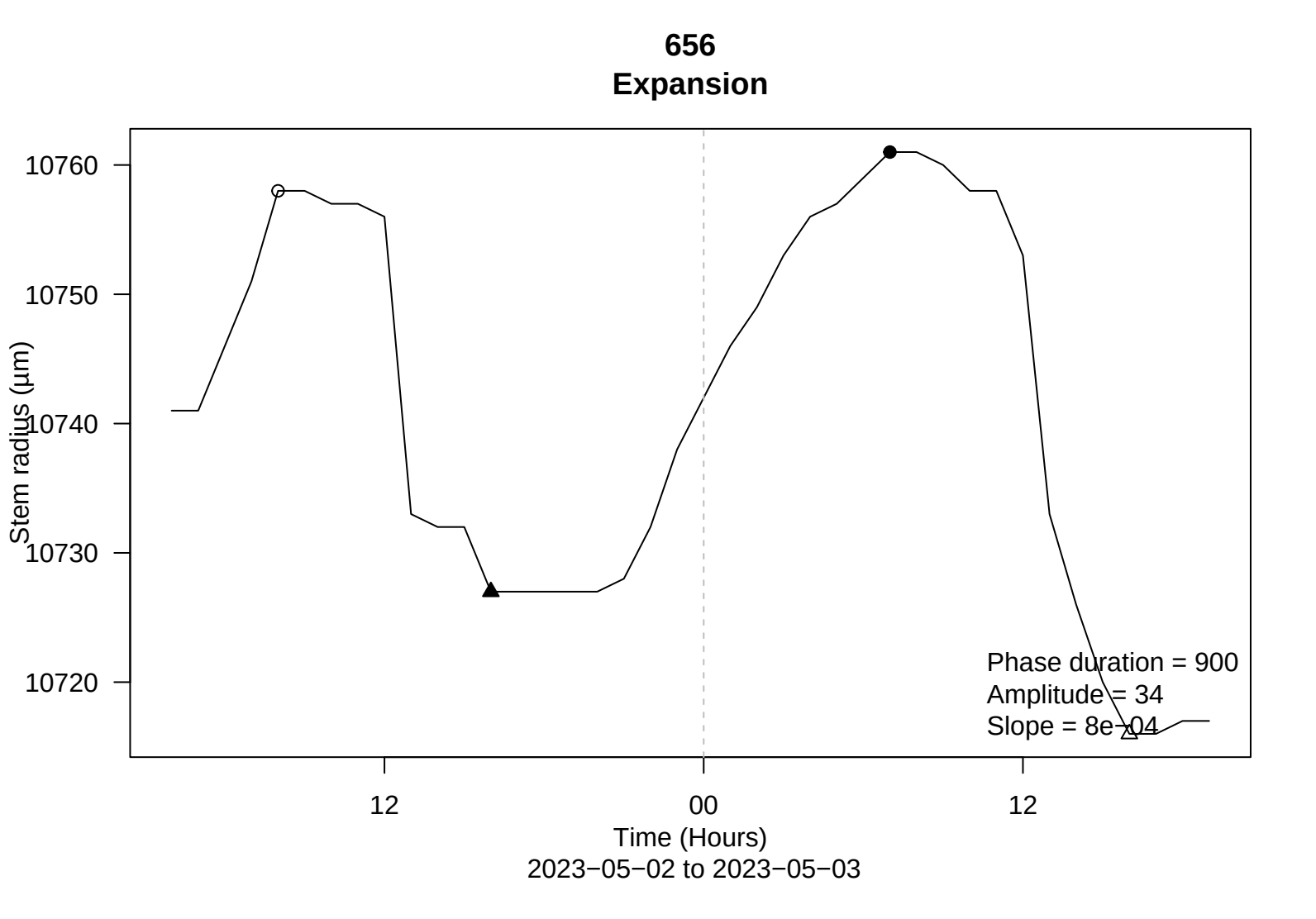

656
Shrinkage
10800
10780
10760
10740
10720
10700
Stem radius (µm)
Phase duration = 1140
Amplitude = −98
Slope = −8e−04
12
00
12
00
Time (Hours)
2023−04−28 to 2023−04−29

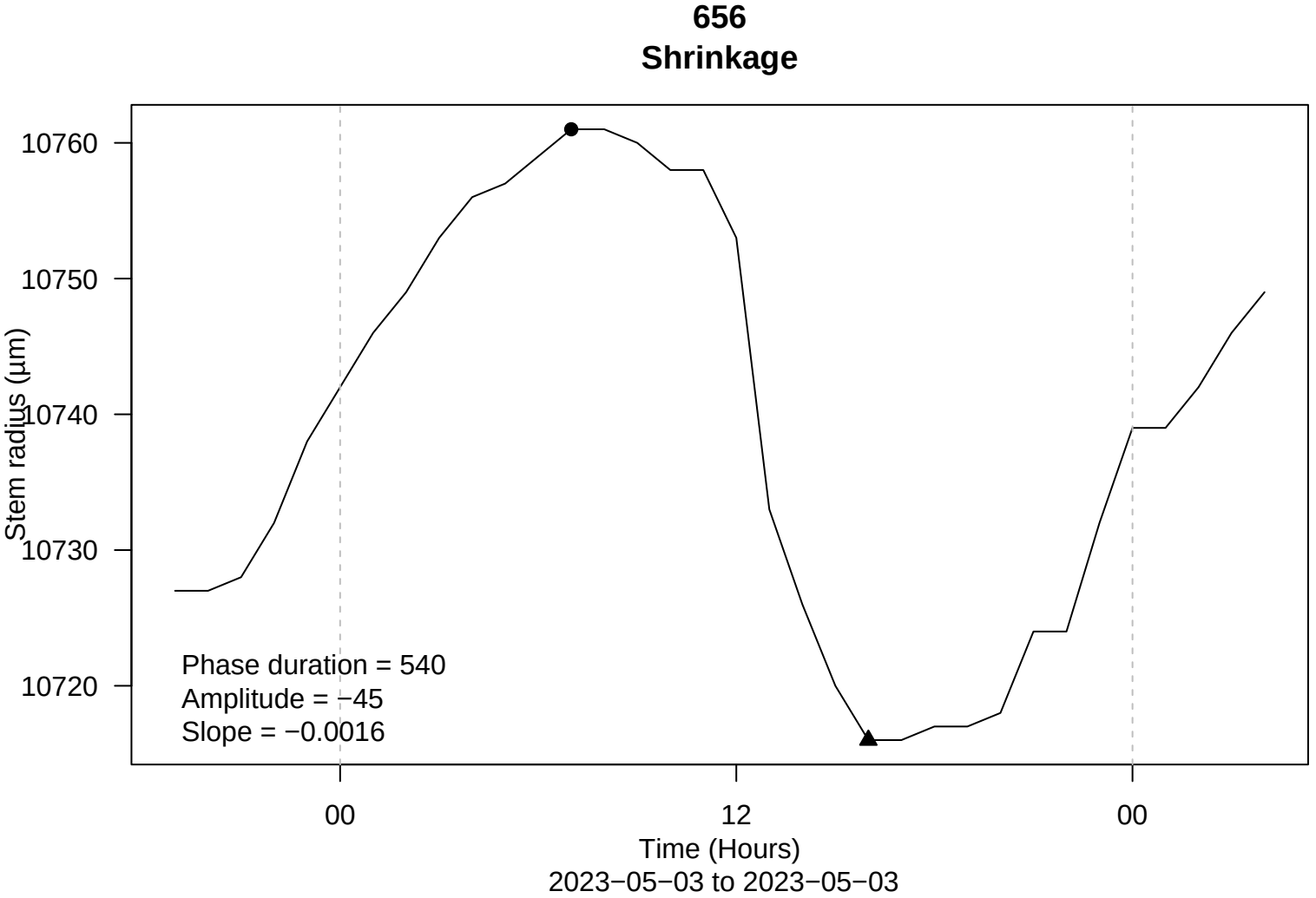

656
Expansion
10780
10760
10740
10720
10700
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−29 to 2023−04−30
Phase duration = 720
Amplitude = 5
Slope = 1e−04

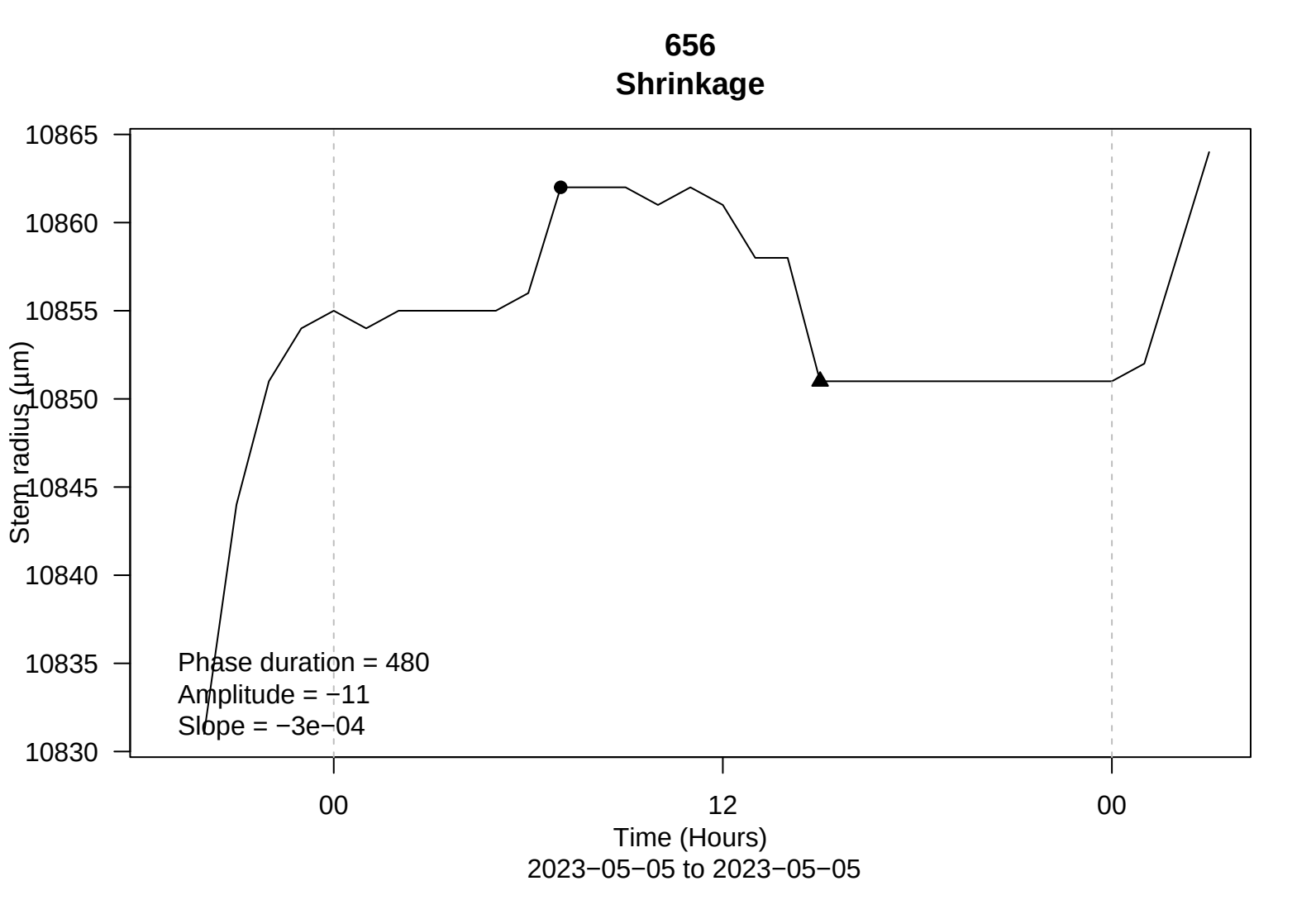

656
Shrinkage
10702
10700
10698
10696
10694
Stem radius (µm)
Phase duration = 660
Amplitude = −6
Slope = −2e−04
00
12
00
Time (Hours)
2023−04−30 to 2023−04−30

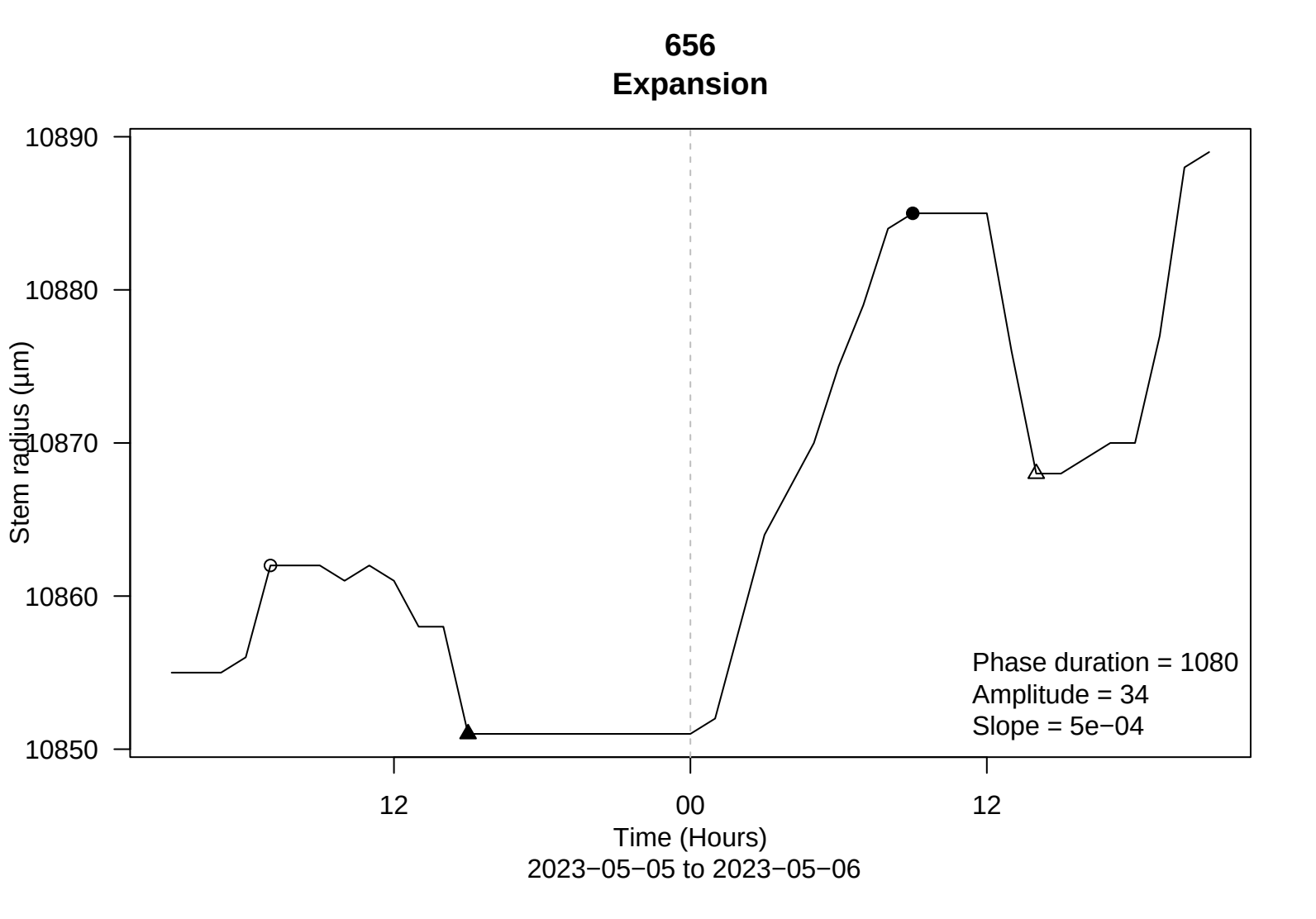

656
Expansion
10760
10750
10740
10730
10720
10710
10700
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2023−04−30 to 2023−05−02
Phase duration = 2460
Amplitude = 64
Slope = 3e−04

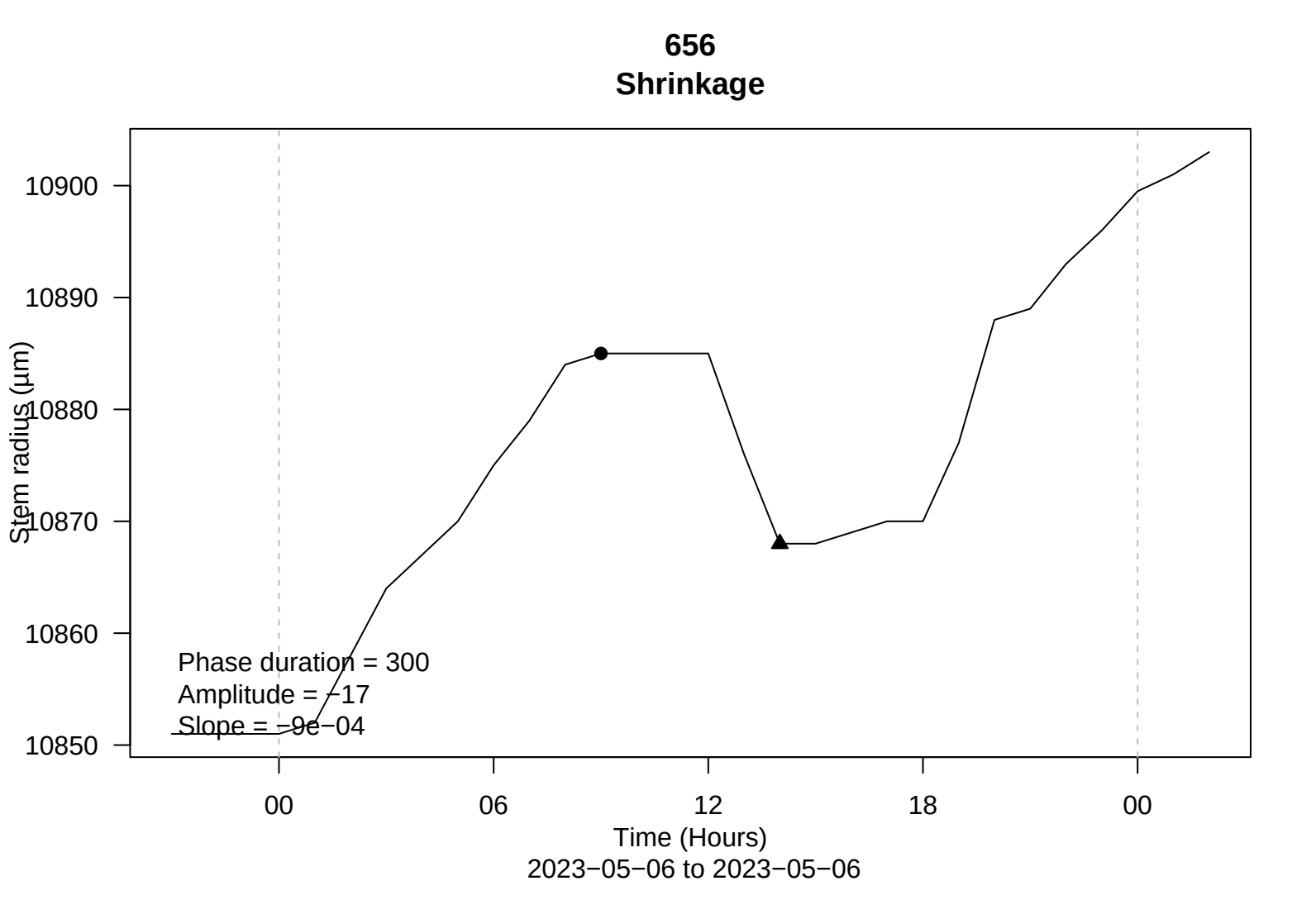

656
Shrinkage
10760
10750
10740
10730
10720
10710
Stem radius (µm)
Phase duration = 480
Amplitude = −31
Slope = −0.0013
00
06
12
18
00
Time (Hours)
2023−05−02 to 2023−05−02

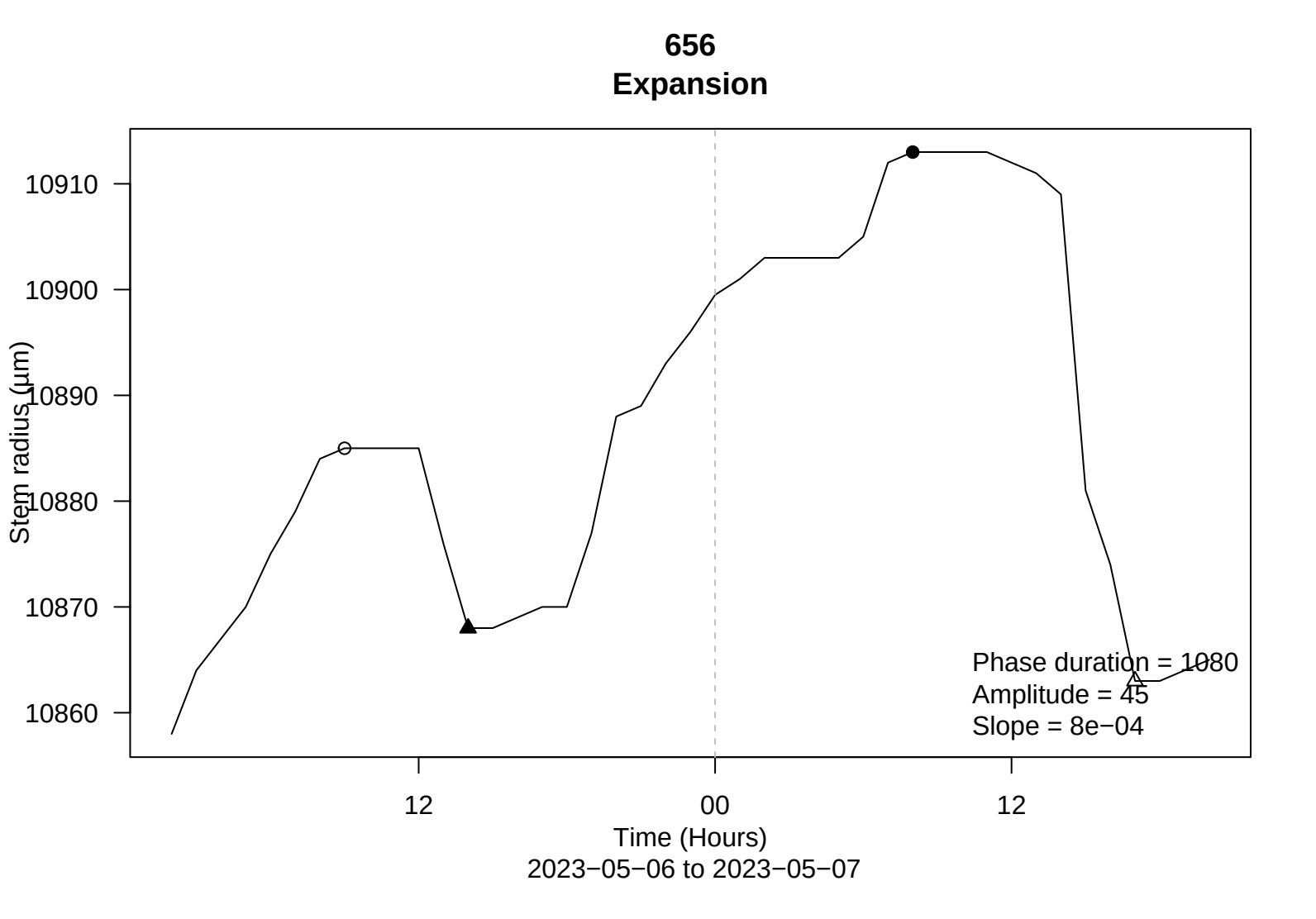

656
Expansion
10760
10750
10740
10730
10720
Stem radius (µm)
Phase duration = 900
Amplitude = 34
Slope = 8e−04
12
00
12
Time (Hours)
2023−05−02 to 2023−05−03

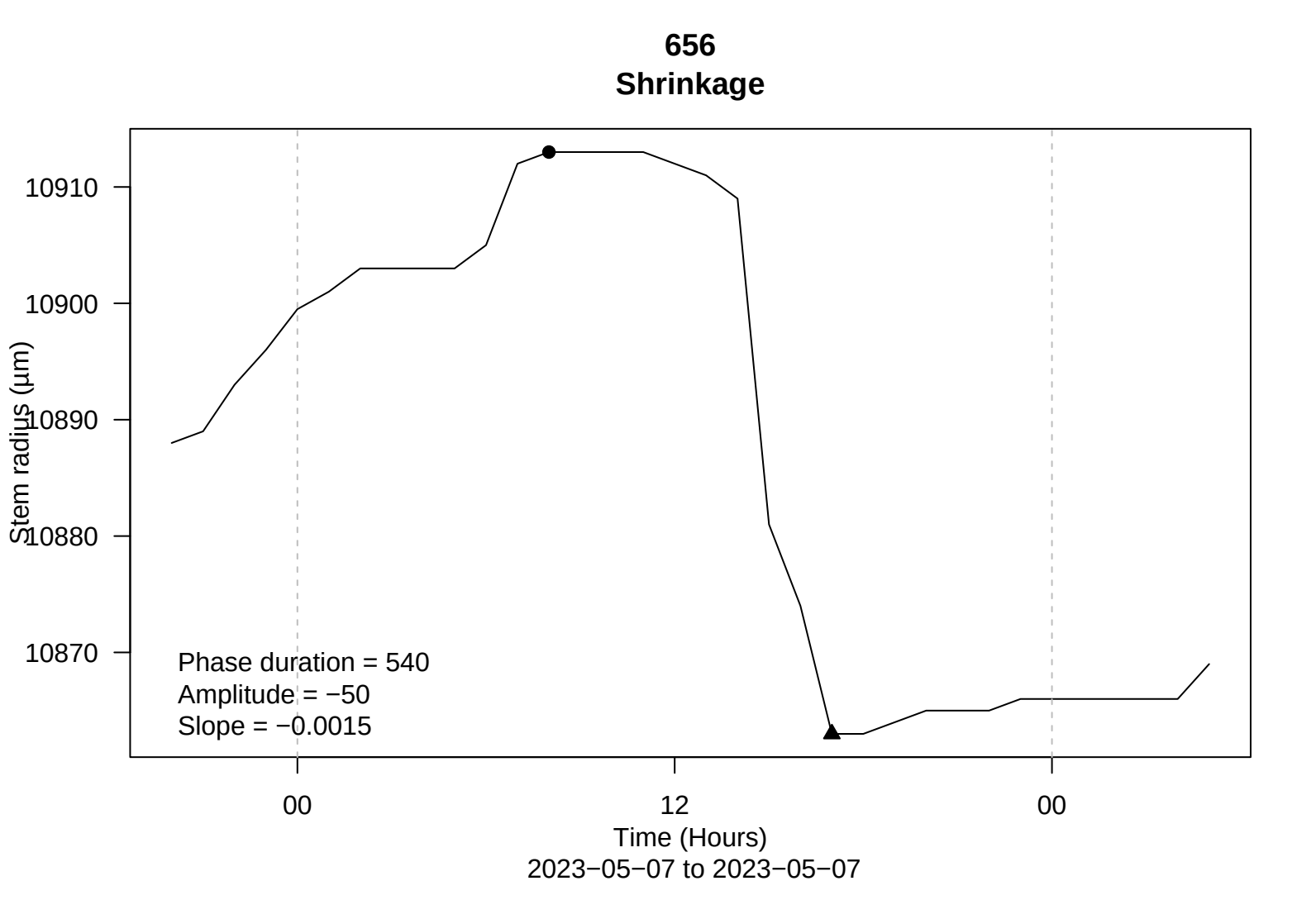

656
Shrinkage
10760
10750
10740
10730
10720
Stem radius (µm)
Phase duration = 540
Amplitude = −45
Slope = −0.0016
00
12
00
Time (Hours)
2023−05−03 to 2023−05−03

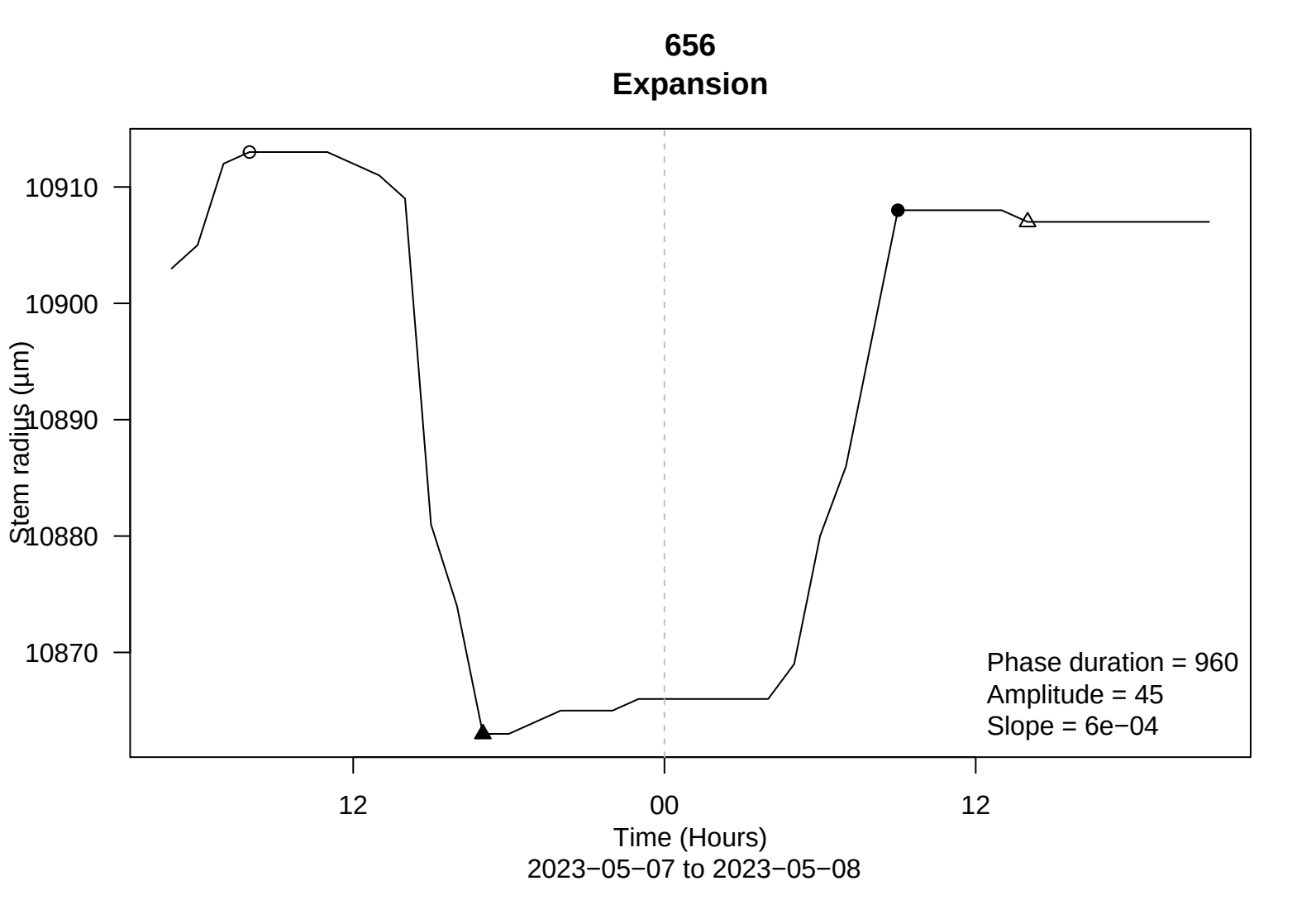

656
Shrinkage
10865
10860
10855
10850
10845
10840
10835
10830
Stem radius (µm)
Phase duration = 480
Amplitude = −11
Slope = −3e−04
00
12
00
Time (Hours)
2023−05−05 to 2023−05−05

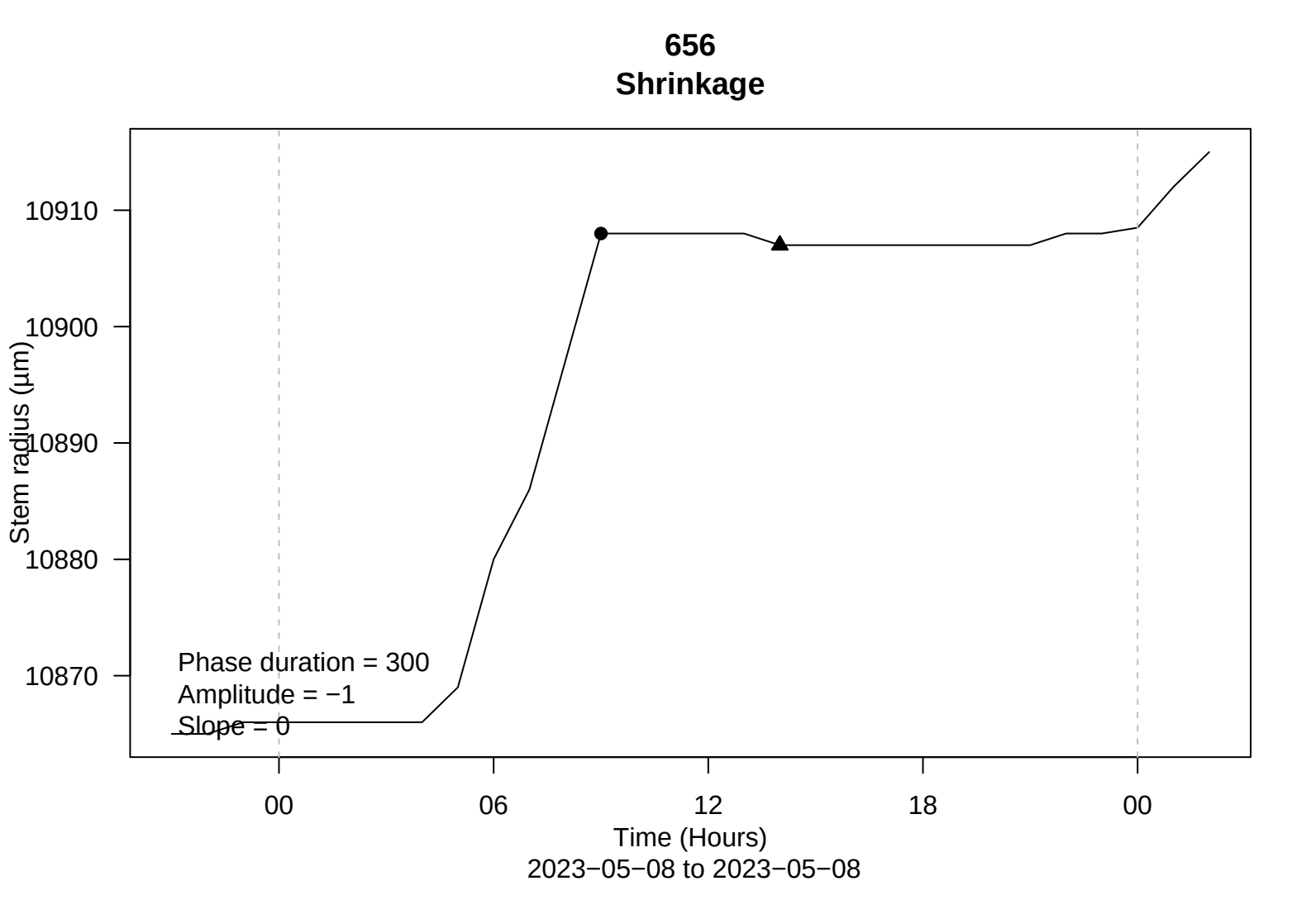

656
Expansion
10890
10880
10870
10860
10850
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−05 to 2023−05−06
Phase duration = 1080
Amplitude = 34
Slope = 5e−04

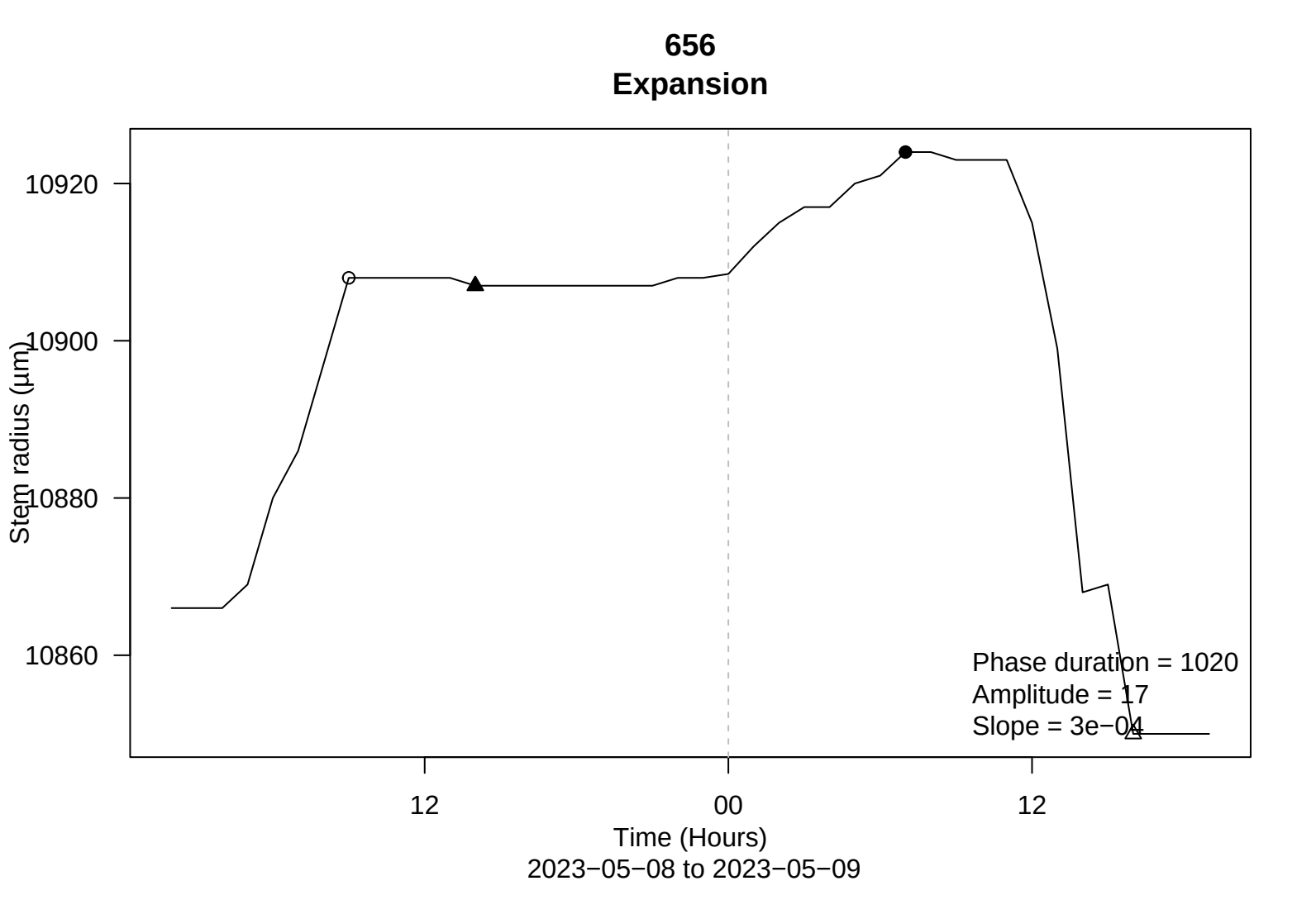

656
Shrinkage
10900
10890
10880
10870
10860
10850
Stem radius (µm)
Phase duration = 300
Amplitude = −17
Slope = −9e−04
00
06
12
18
00
Time (Hours)
2023−05−06 to 2023−05−06

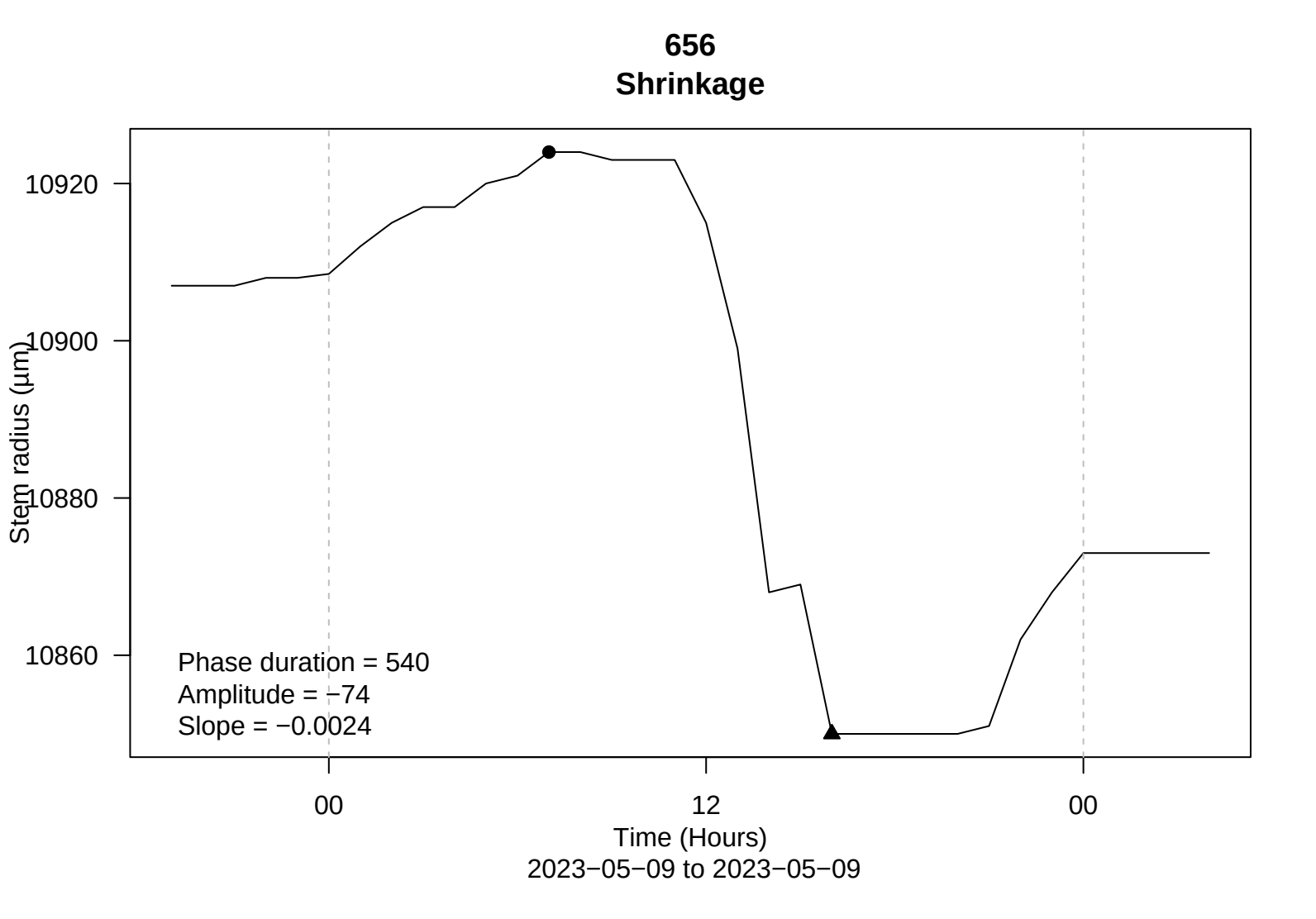

656
Expansion
10910
10900
10890
10880
10870
10860
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−06 to 2023−05−07
Phase duration = 1080
Amplitude = 45
Slope = 8e−04

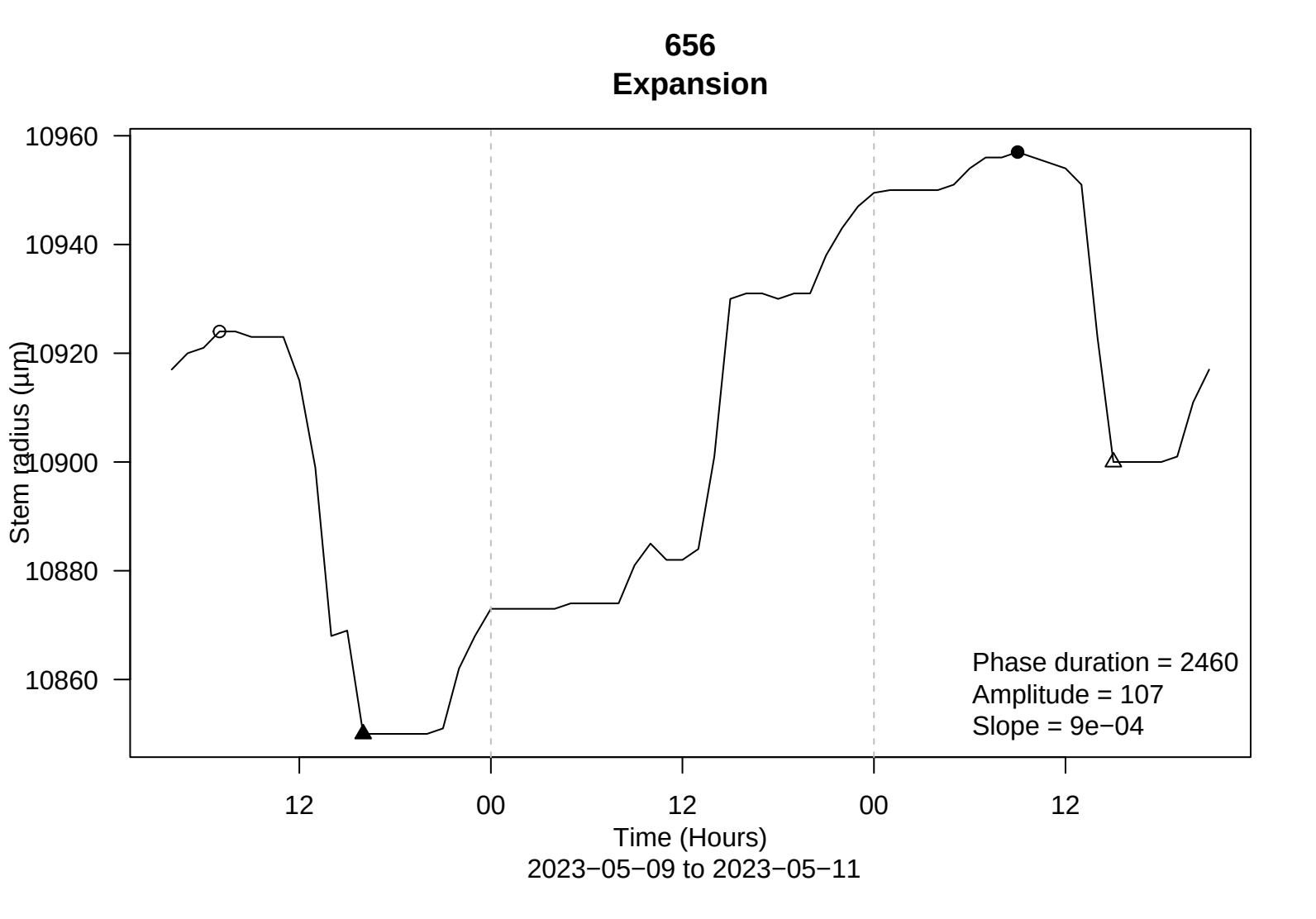

656
Shrinkage
10910
10900
10890
10880
10870
Stem radius (µm)
Phase duration = 540
Amplitude = −50
Slope = −0.0015
00
12
00
Time (Hours)
2023−05−07 to 2023−05−07

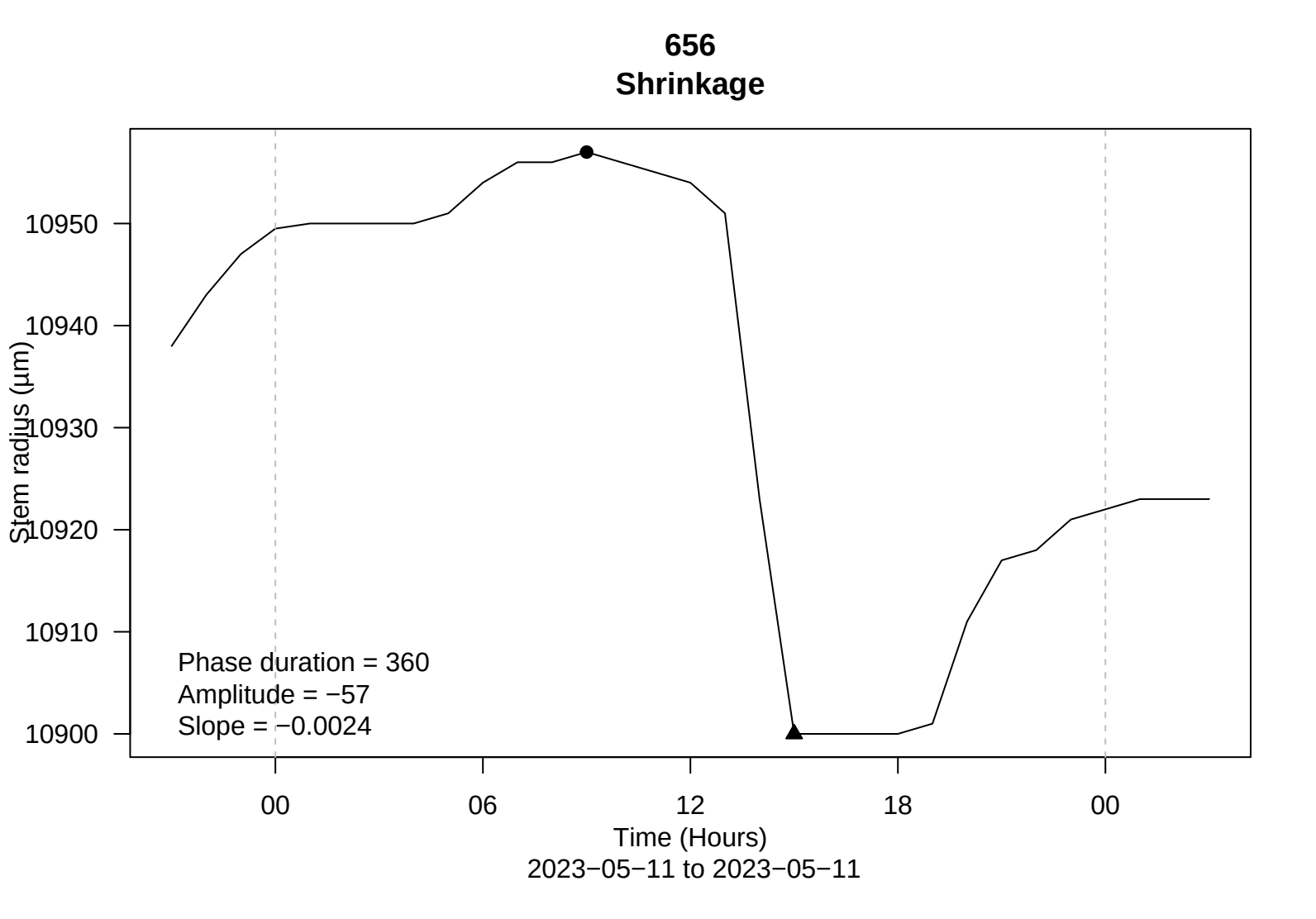

656
Expansion
10910
10900
10890
10880
10870
Stem radius (µm)
Phase duration = 960
Amplitude = 45
Slope = 6e−04
12
00
12
Time (Hours)
2023−05−07 to 2023−05−08

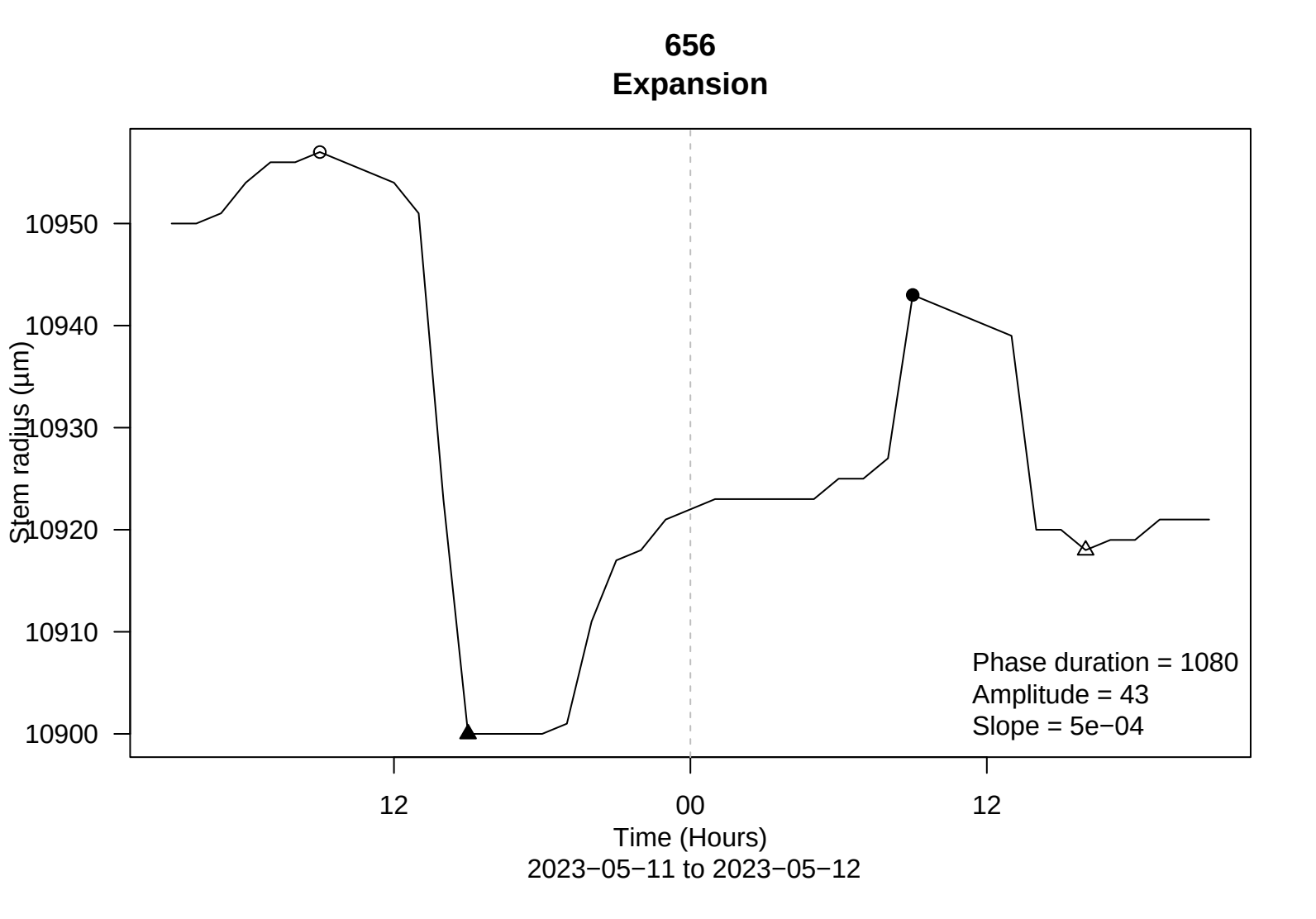

656
Shrinkage
10910
10900
10890
10880
10870
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = 0
00
06
12
18
00
Time (Hours)
2023−05−08 to 2023−05−08

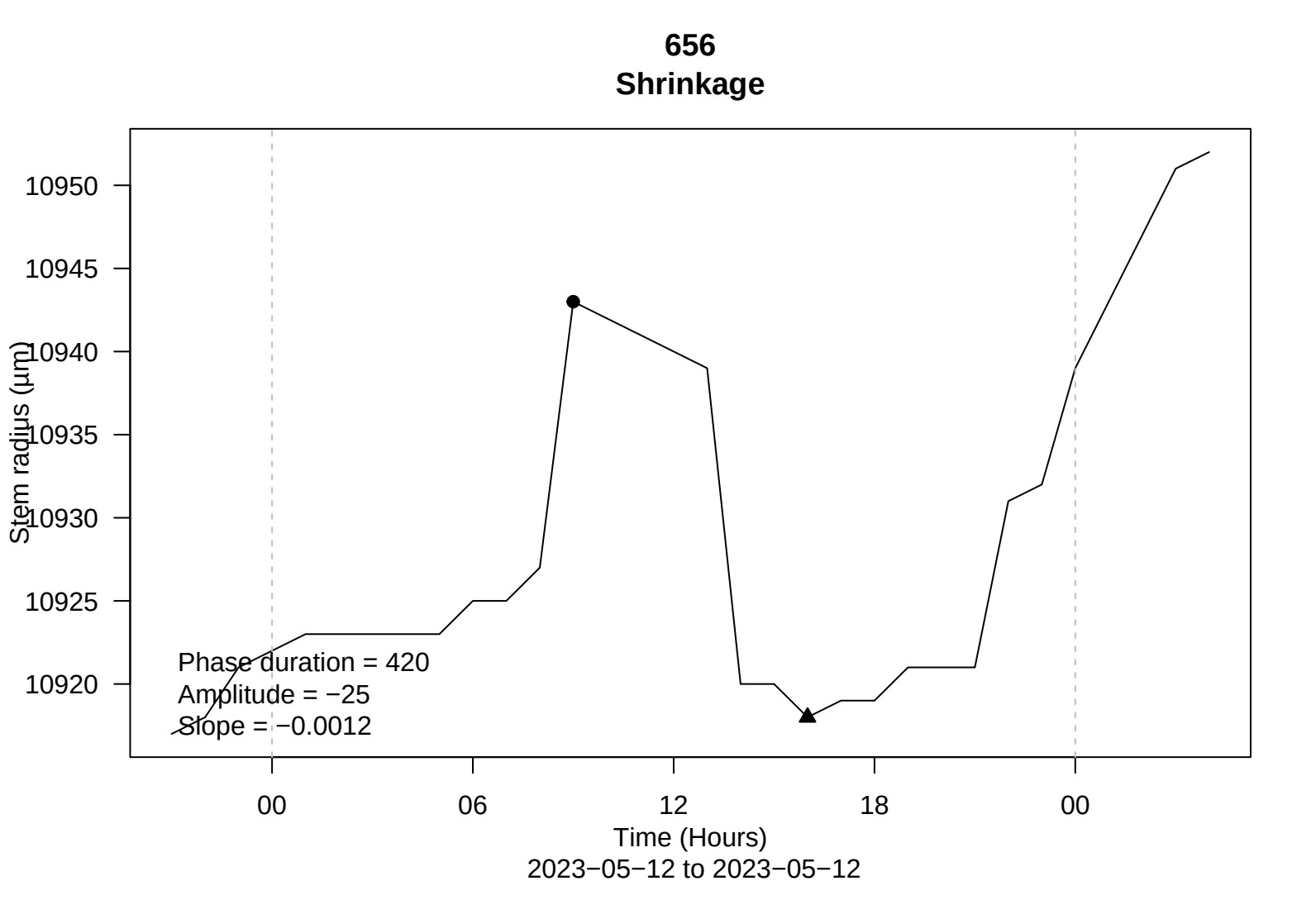

656
Expansion
10920
10900
10880
10860
Stem radius (µm)
Phase duration = 1020
Amplitude = 17
Slope = 3e−04
12
00
12
Time (Hours)
2023−05−08 to 2023−05−09

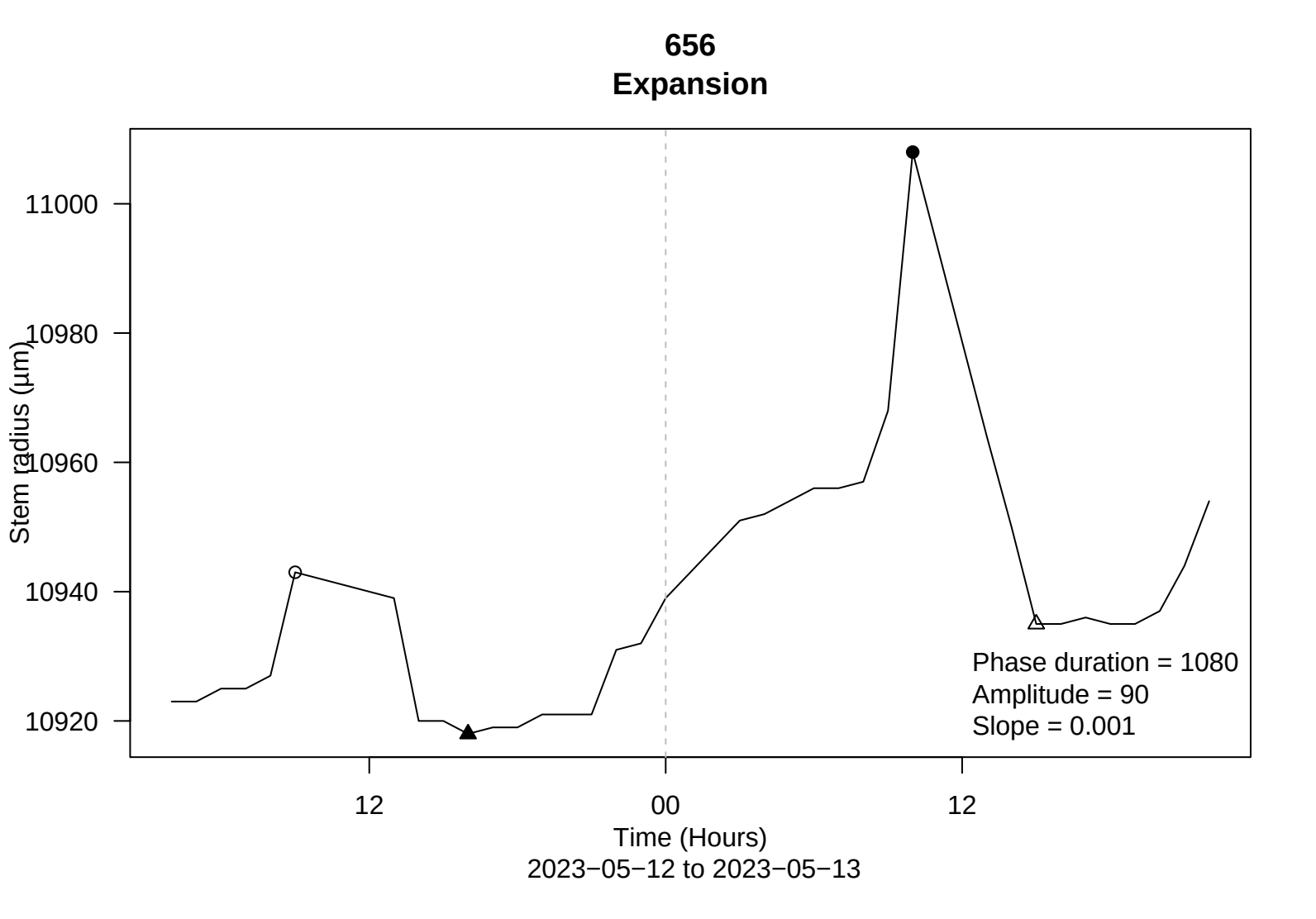

656
Shrinkage
10920
10900
10880
10860
Stem radius (µm)
Phase duration = 540
Amplitude = −74
Slope = −0.0024
00
12
00
Time (Hours)
2023−05−09 to 2023−05−09

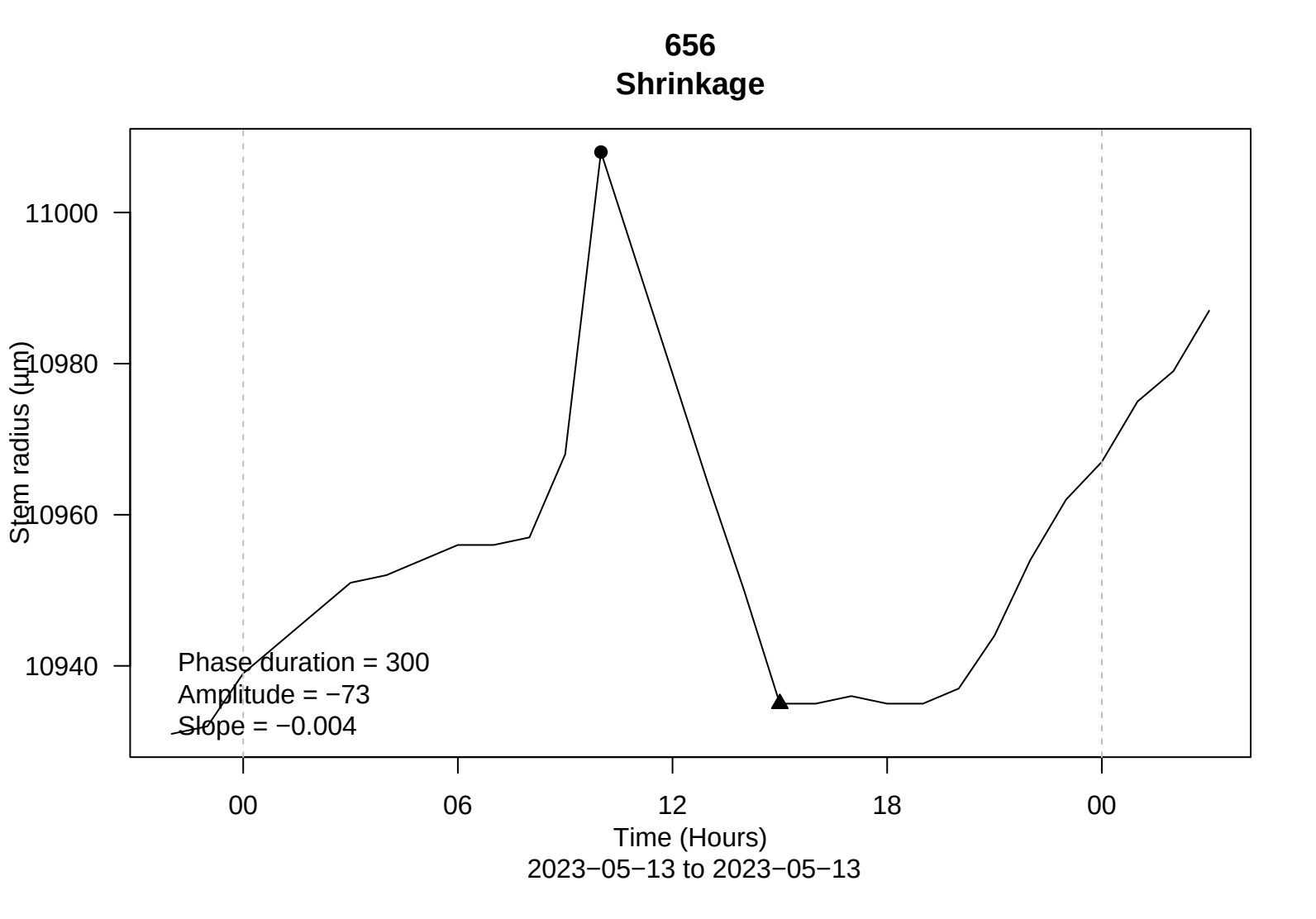

656
Expansion
10960
10940
10920
10900
10880
10860
Stem radius (µm)
Phase duration = 2460
Amplitude = 107
Slope = 9e−04
12
00
12
00
12
Time (Hours)
2023−05−09 to 2023−05−11

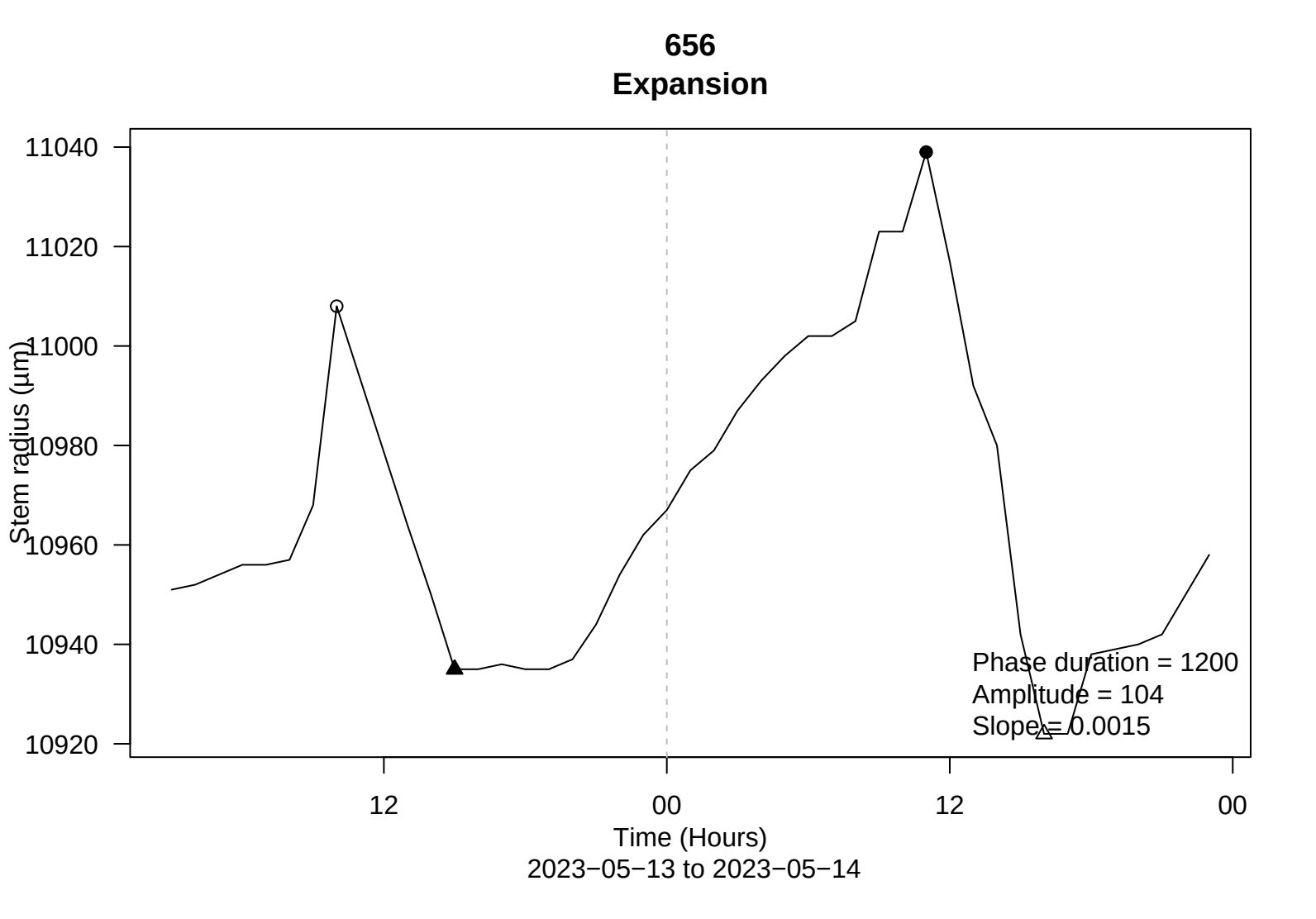

656
Shrinkage
10950
10940
10930
10920
10910
10900
Stem radius (µm)
Phase duration = 360
Amplitude = −57
Slope = −0.0024
00
06
12
18
00
Time (Hours)
2023−05−11 to 2023−05−11

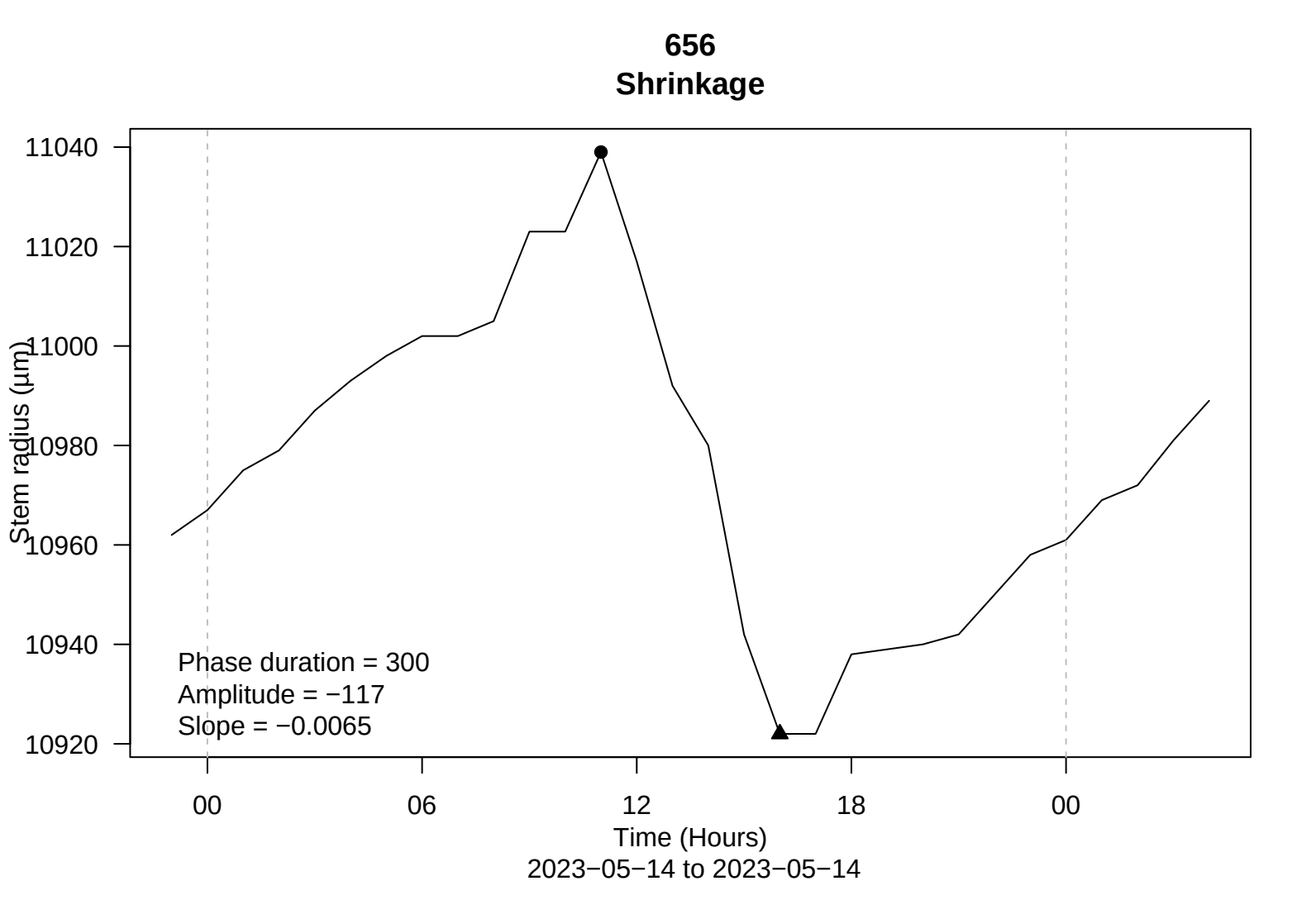

656
Expansion
10950
10940
10930
10920
10910
10900
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−11 to 2023−05−12
Phase duration = 1080
Amplitude = 43
Slope = 5e−04

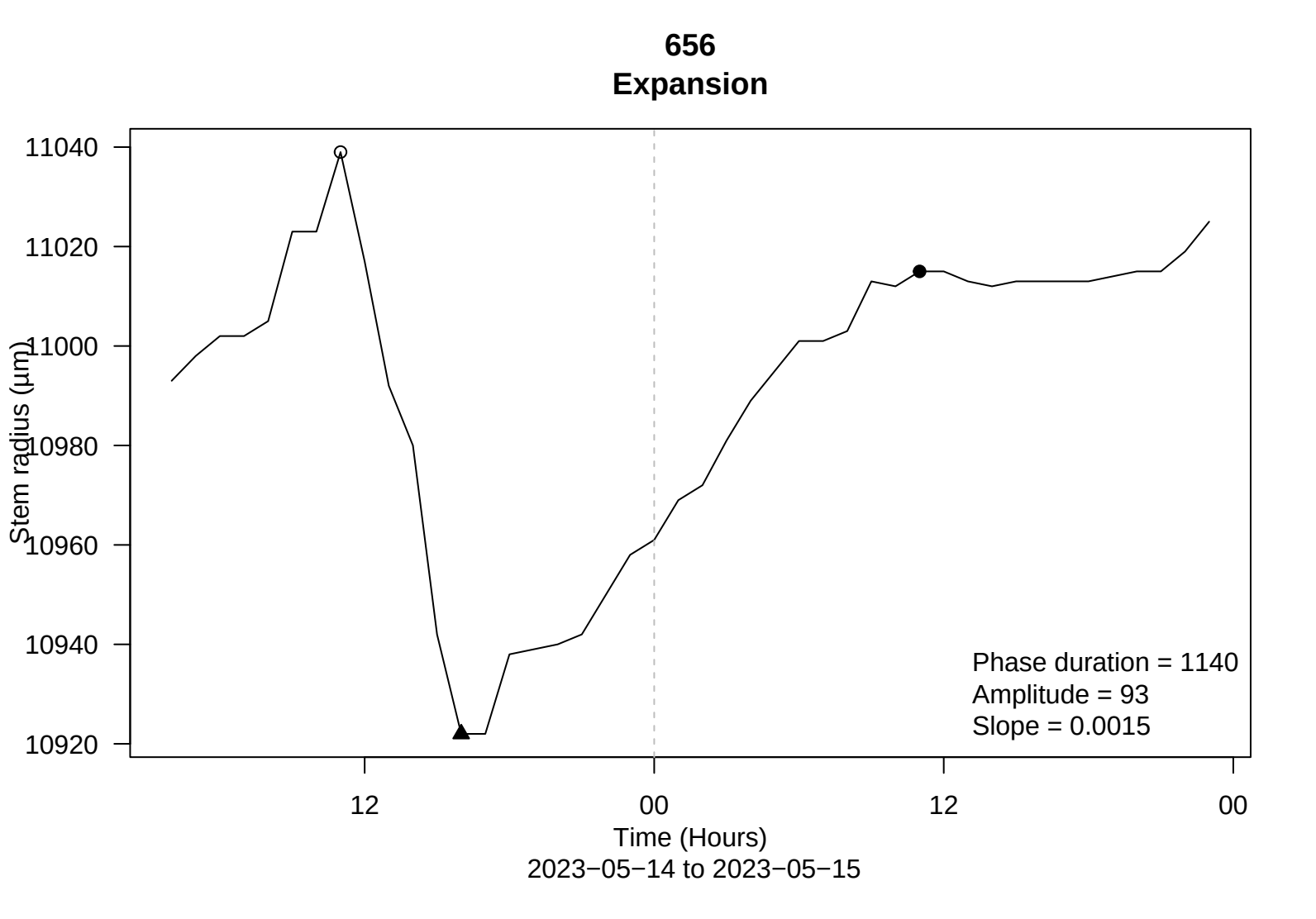

656
Shrinkage
10950
10945
10940
10935
10930
10925
10920
Stem radius (µm)
Phase duration = 420
Amplitude = −25
Slope = −0.0012
00
06
12
18
00
Time (Hours)
2023−05−12 to 2023−05−12

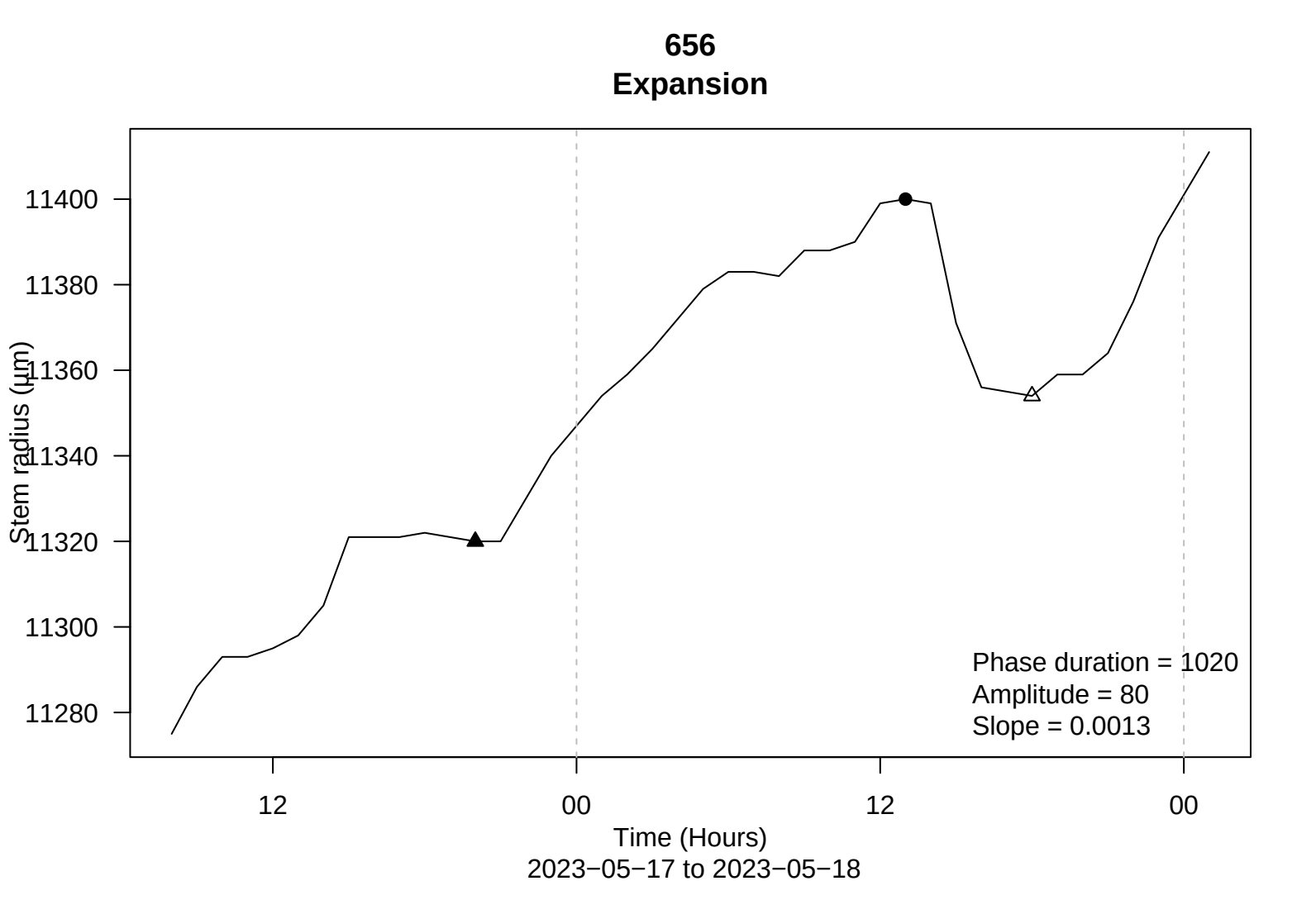

656
Expansion
11000
10980
10960
10940
10920
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−12 to 2023−05−13
Phase duration = 1080
Amplitude = 90
Slope = 0.001

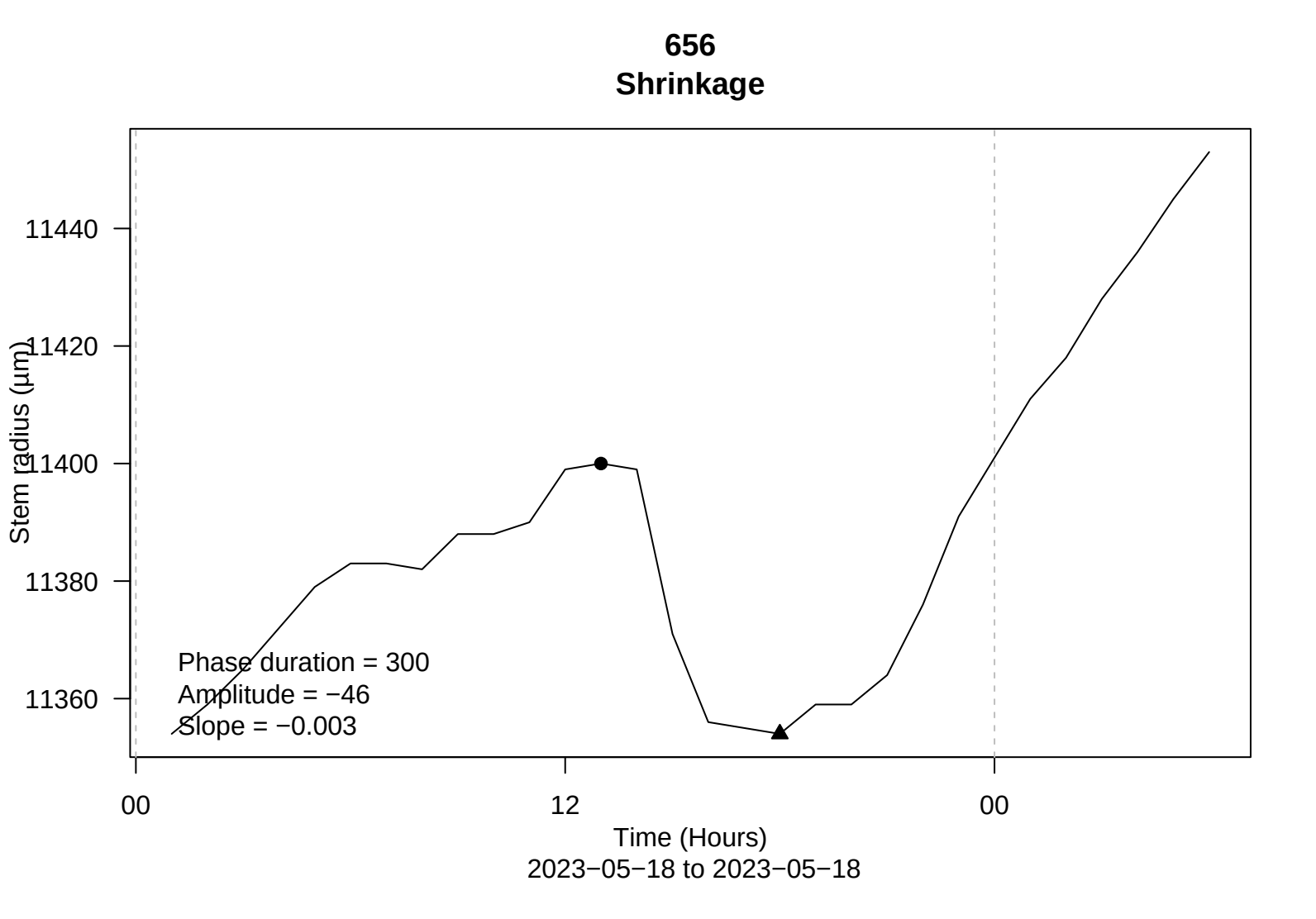

656
Shrinkage
11000
10980
10960
10940
Stem radius (µm)
Phase duration = 300
Amplitude = −73
Slope = −0.004
00
06
12
18
00
Time (Hours)
2023−05−13 to 2023−05−13

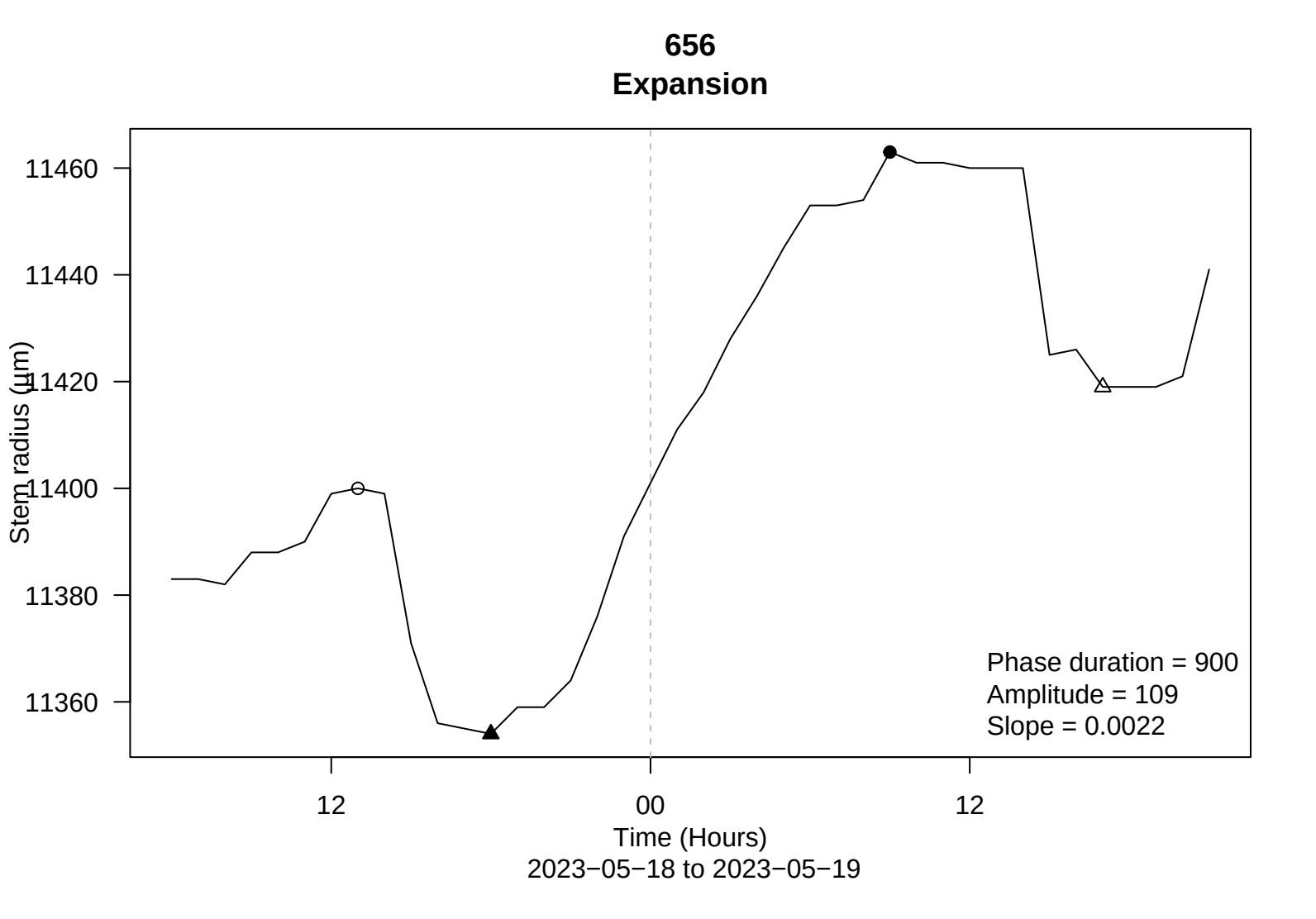

656
Expansion
11040
11020
11000
10980
10960
10940
10920
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−05−13 to 2023−05−14
Phase duration = 1200
Amplitude = 104
Slope = 0.0015

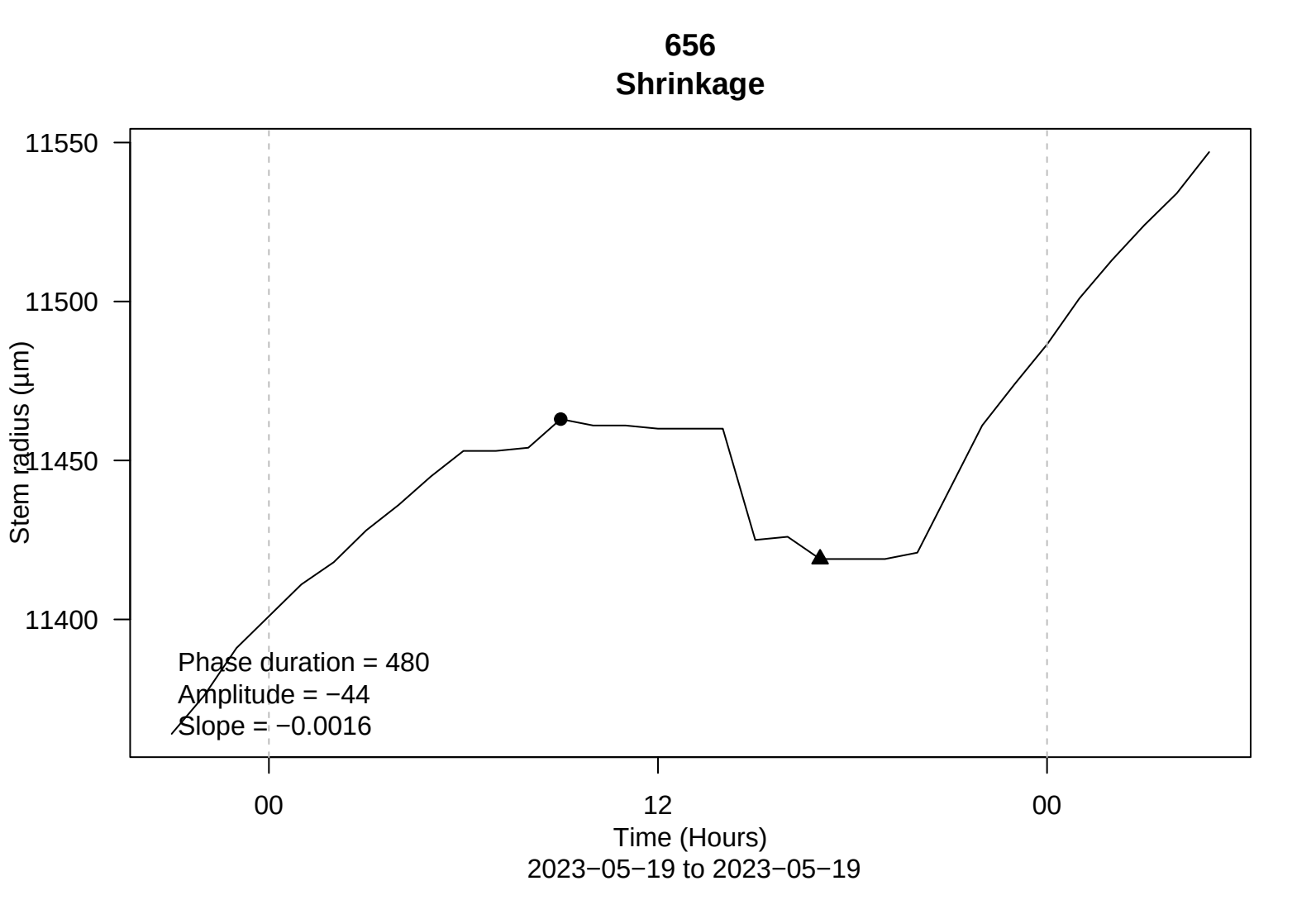

656
Shrinkage
11040
11020
11000
10980
10960
10940
10920
Stem radius (µm)
Phase duration = 300
Amplitude = −117
Slope = −0.0065
00
06
12
18
00
Time (Hours)
2023−05−14 to 2023−05−14

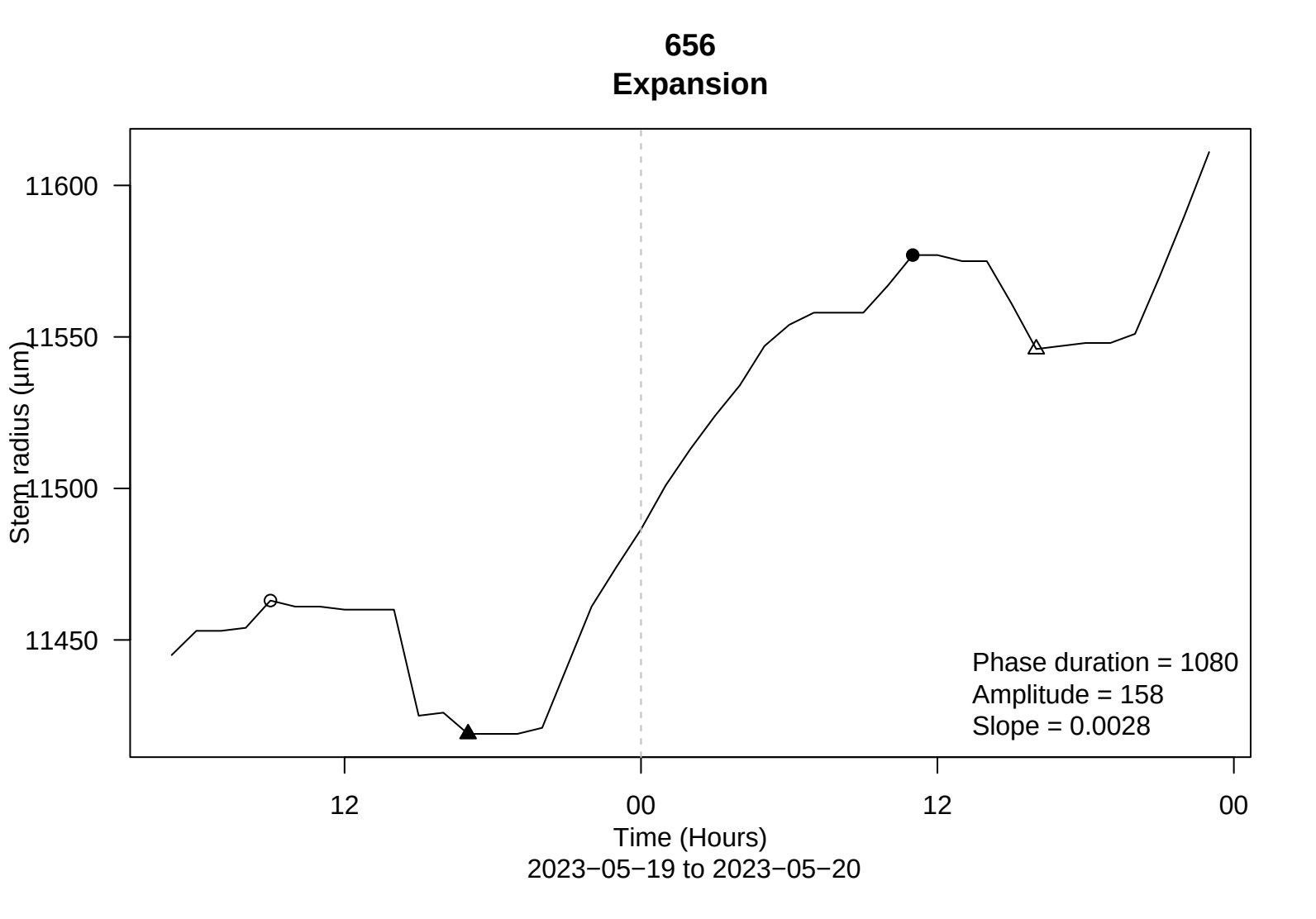

656
Expansion
11040
11020
11000
10980
10960
10940
10920
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−05−14 to 2023−05−15
Phase duration = 1140
Amplitude = 93
Slope = 0.0015

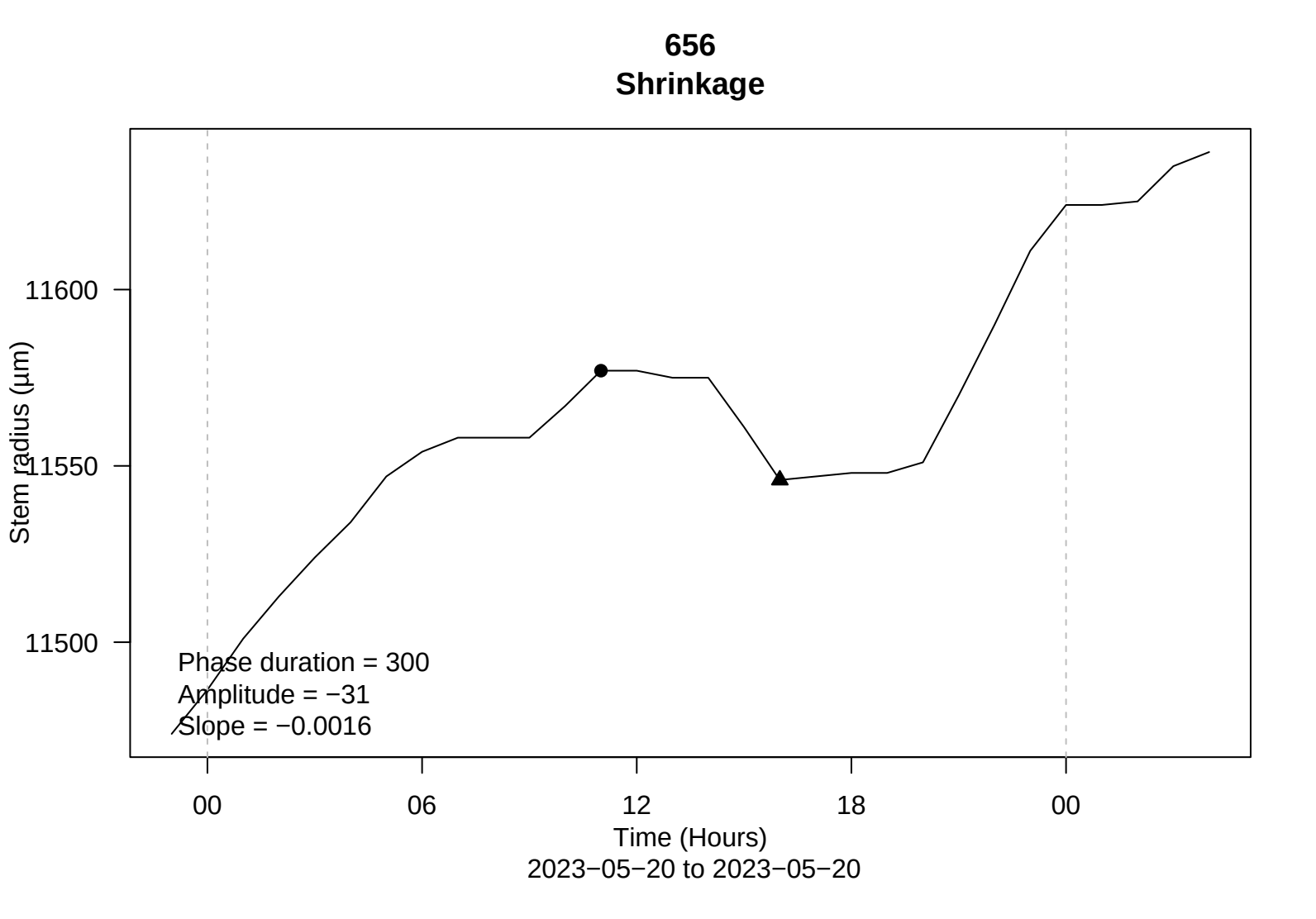

656
Expansion
11400
11380
11360
11340
11320
11300
11280
Stem radius (µm)
Phase duration = 1020
Amplitude = 80
Slope = 0.0013
12
00
12
00
Time (Hours)
2023−05−17 to 2023−05−18

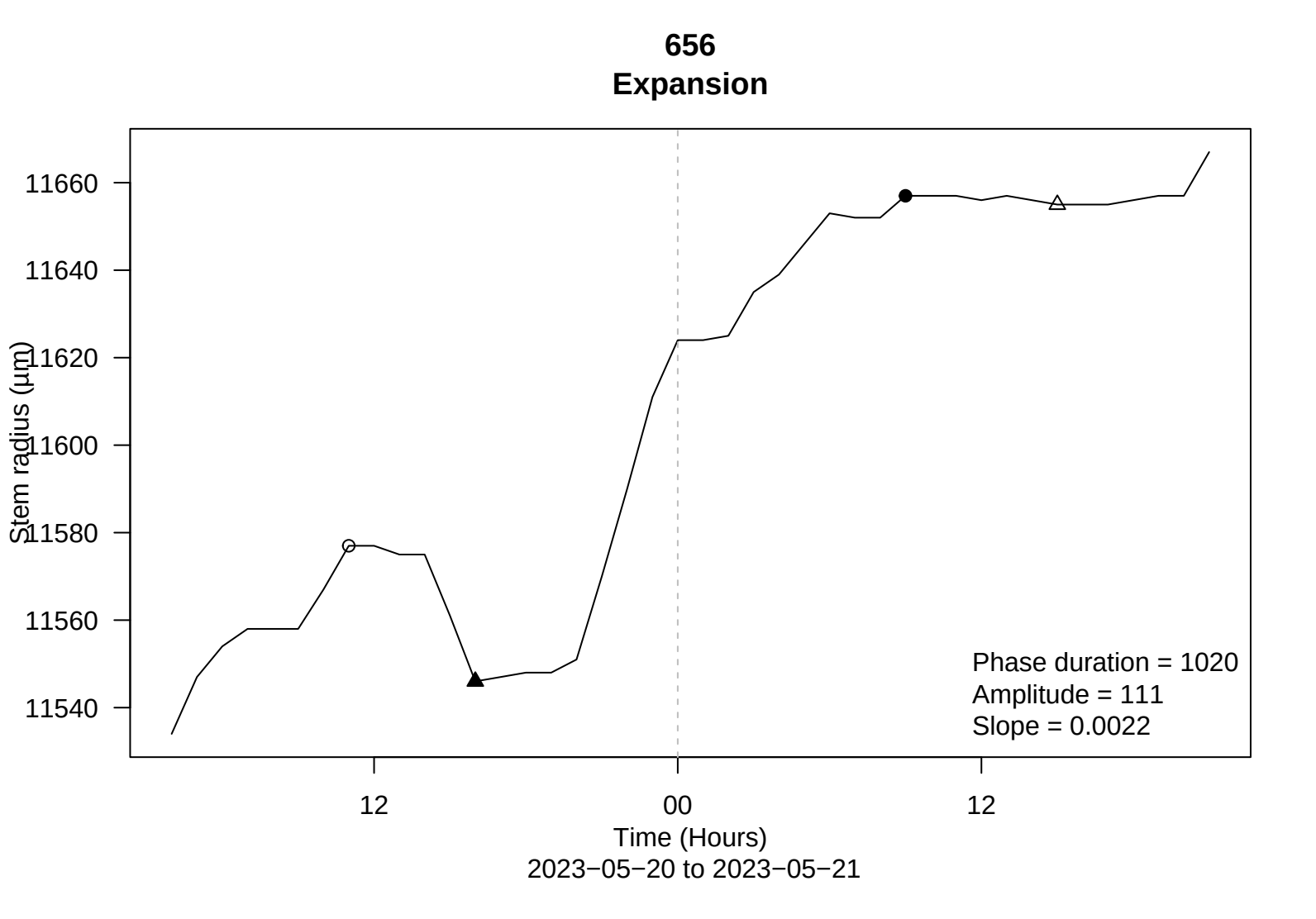

656
Shrinkage
11440
11420
11400
11380
11360
Stem radius (µm)
Phase duration = 300
Amplitude = −46
Slope = −0.003
00
12
00
Time (Hours)
2023−05−18 to 2023−05−18

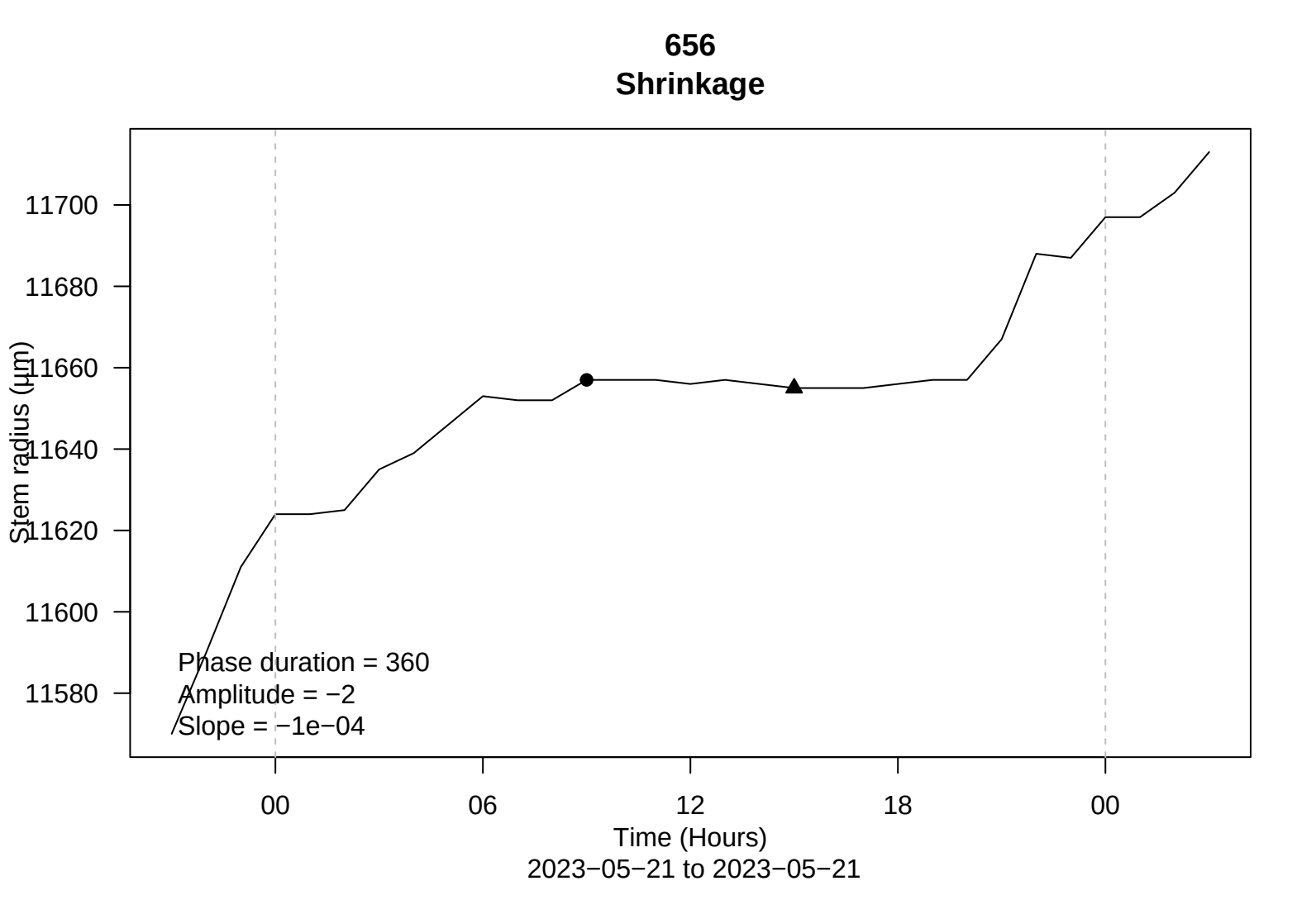

656
Expansion
11460
11440
11420
11400
11380
11360
Stem radius (µm)
Phase duration = 900
Amplitude = 109
Slope = 0.0022
12
00
12
Time (Hours)
2023−05−18 to 2023−05−19

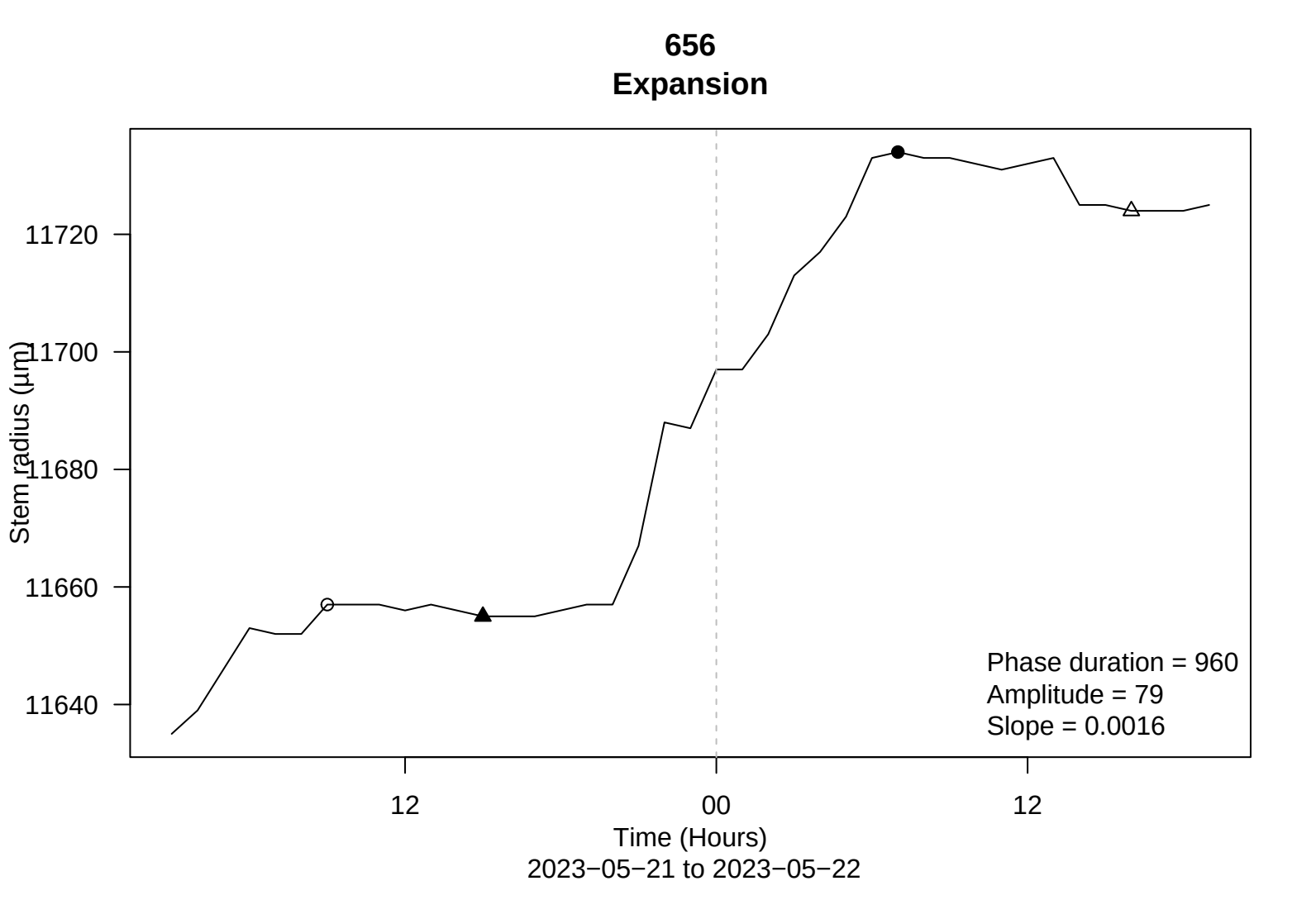

656
Shrinkage
11550
11500
11450
11400
Stem radius (µm)
Phase duration = 480
Amplitude = −44
Slope = −0.0016
00
12
00
Time (Hours)
2023−05−19 to 2023−05−19

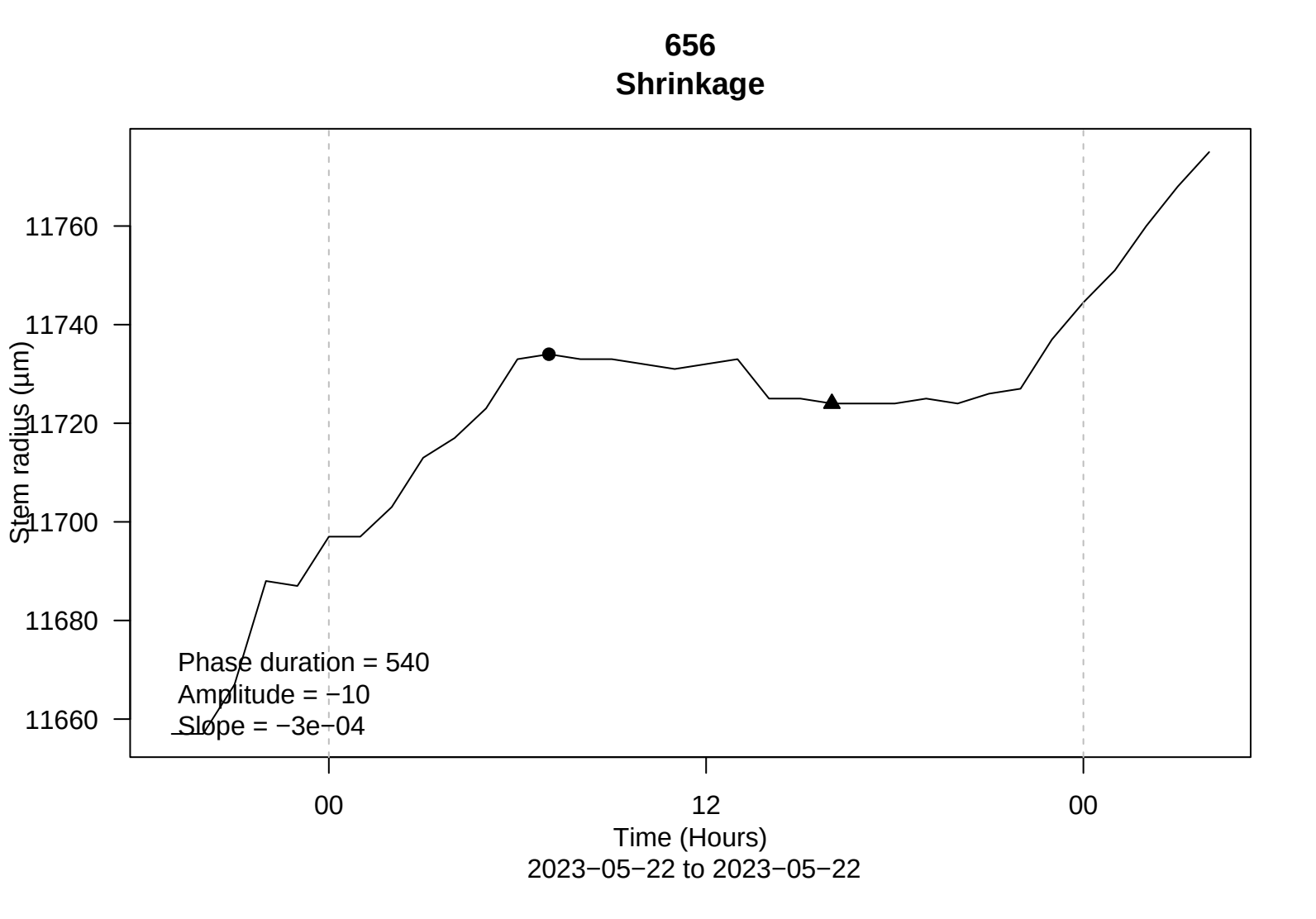

656
Expansion
11600
11550
11500
11450
Stem radius (µm)
Phase duration = 1080
Amplitude = 158
Slope = 0.0028
12
00
12
00
Time (Hours)
2023−05−19 to 2023−05−20

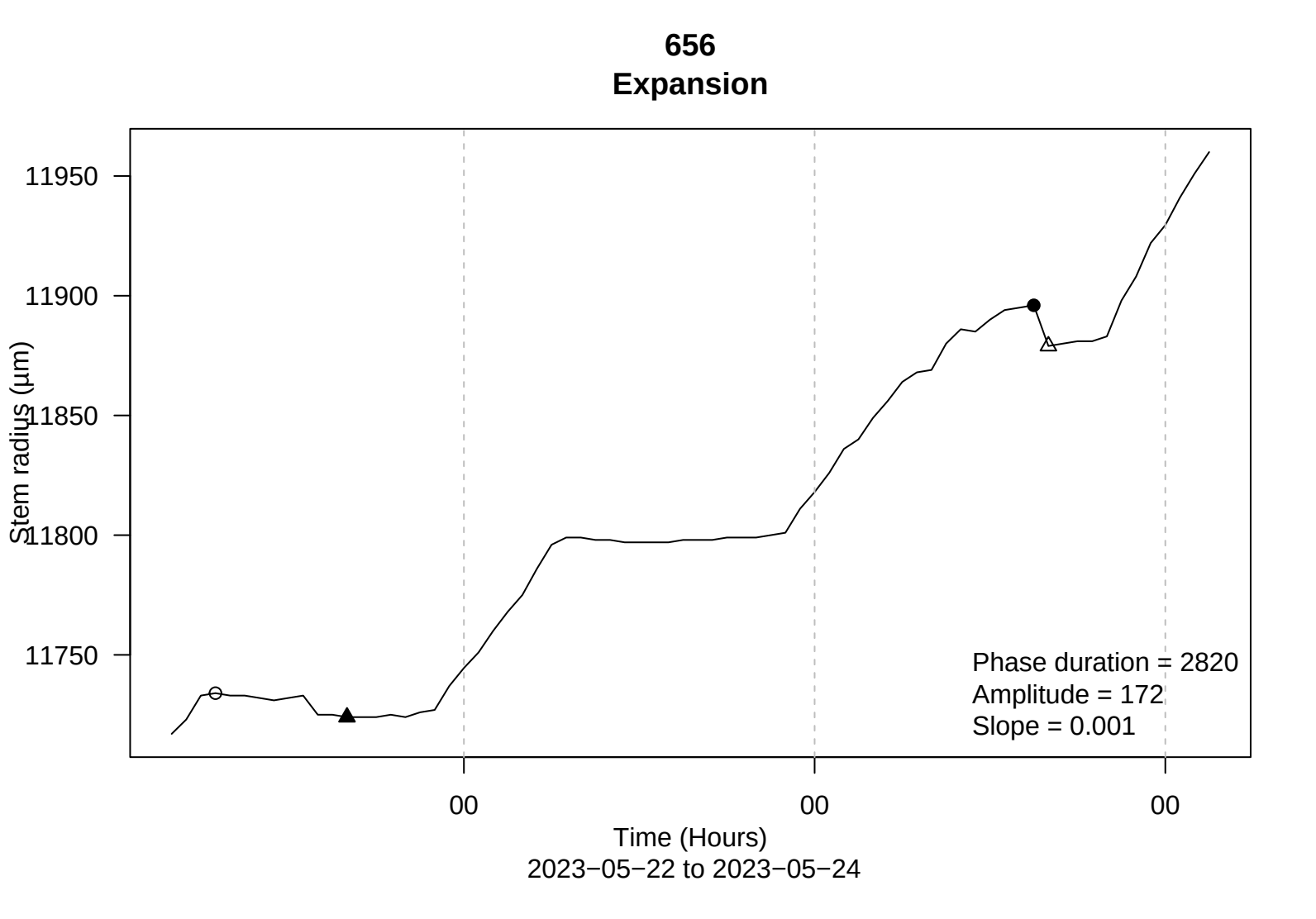

656
Shrinkage
11600
11550
11500
Stem radius (µm)
Phase duration = 300
Amplitude = −31
Slope = −0.0016
00
06
12
18
00
Time (Hours)
2023−05−20 to 2023−05−20

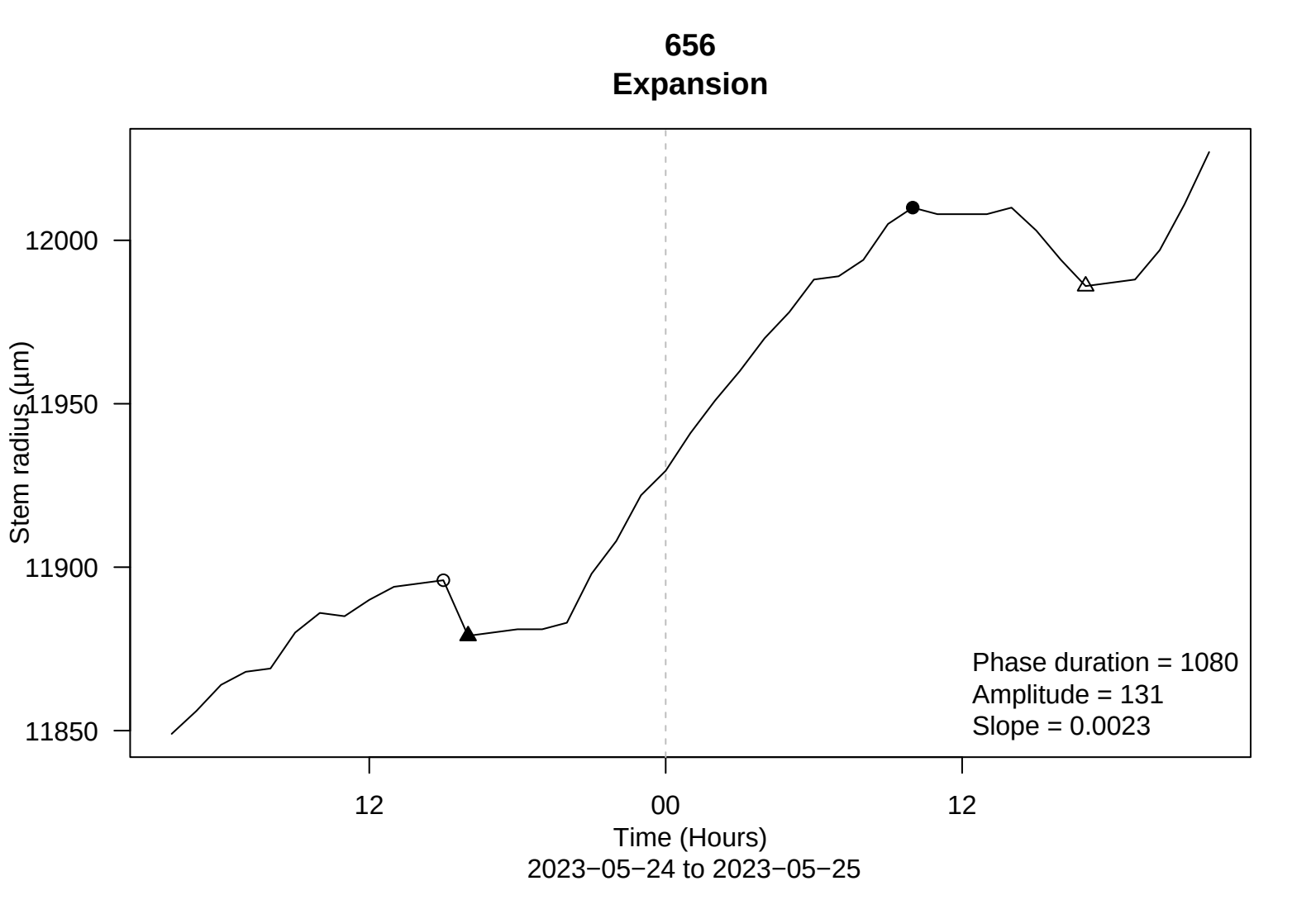

656
Expansion
11660
11640
11620
11600
11580
11560
11540
Stem radius (µm)
Phase duration = 1020
Amplitude = 111
Slope = 0.0022
12
00
12
Time (Hours)
2023−05−20 to 2023−05−21

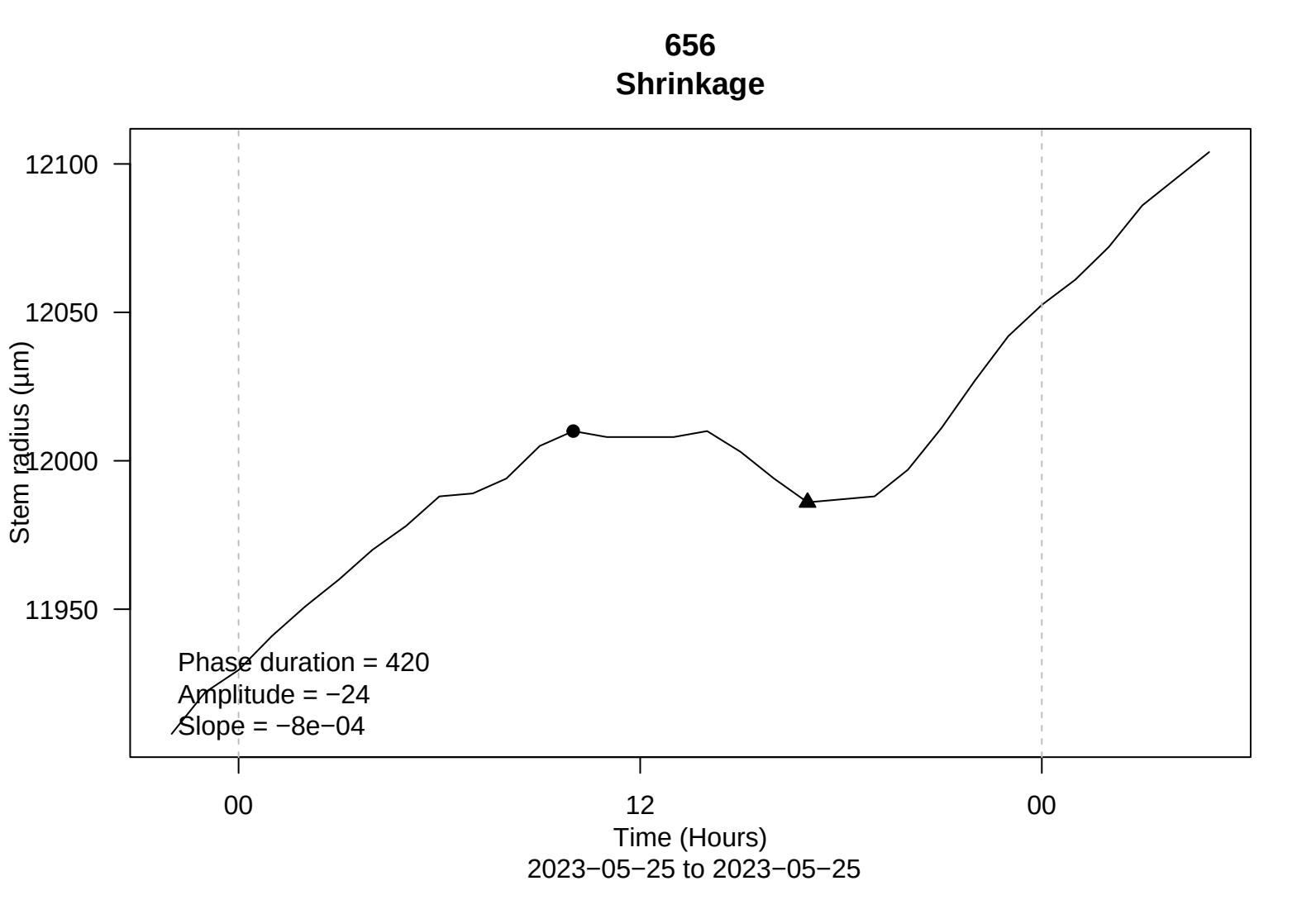

656
Shrinkage
11700
11680
11660
11640
11620
11600
11580
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−05−21 to 2023−05−21

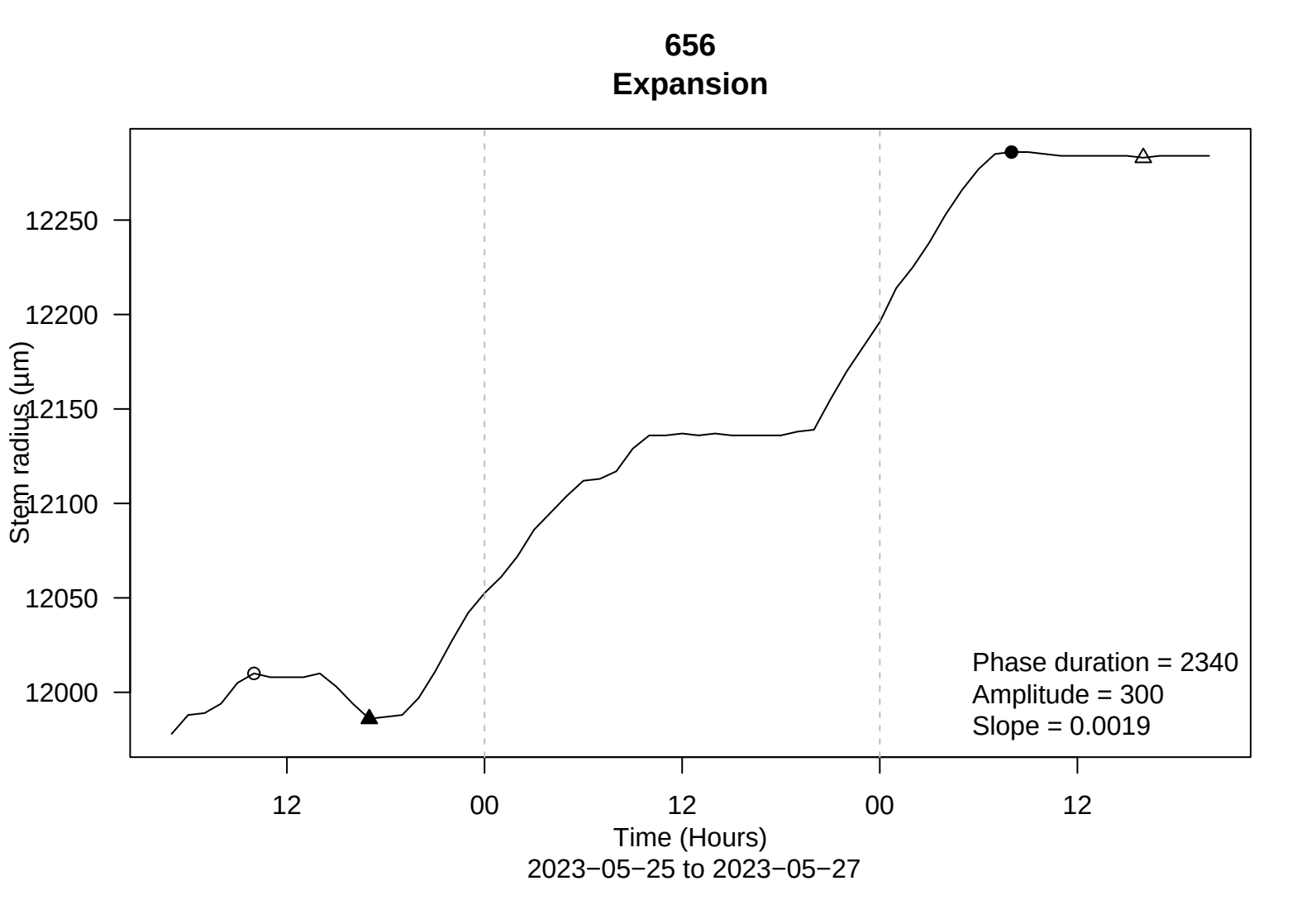

656
Expansion
11720
11700
11680
11660
11640
Stem radius (µm)
Phase duration = 960
Amplitude = 79
Slope = 0.0016
12
00
12
Time (Hours)
2023−05−21 to 2023−05−22

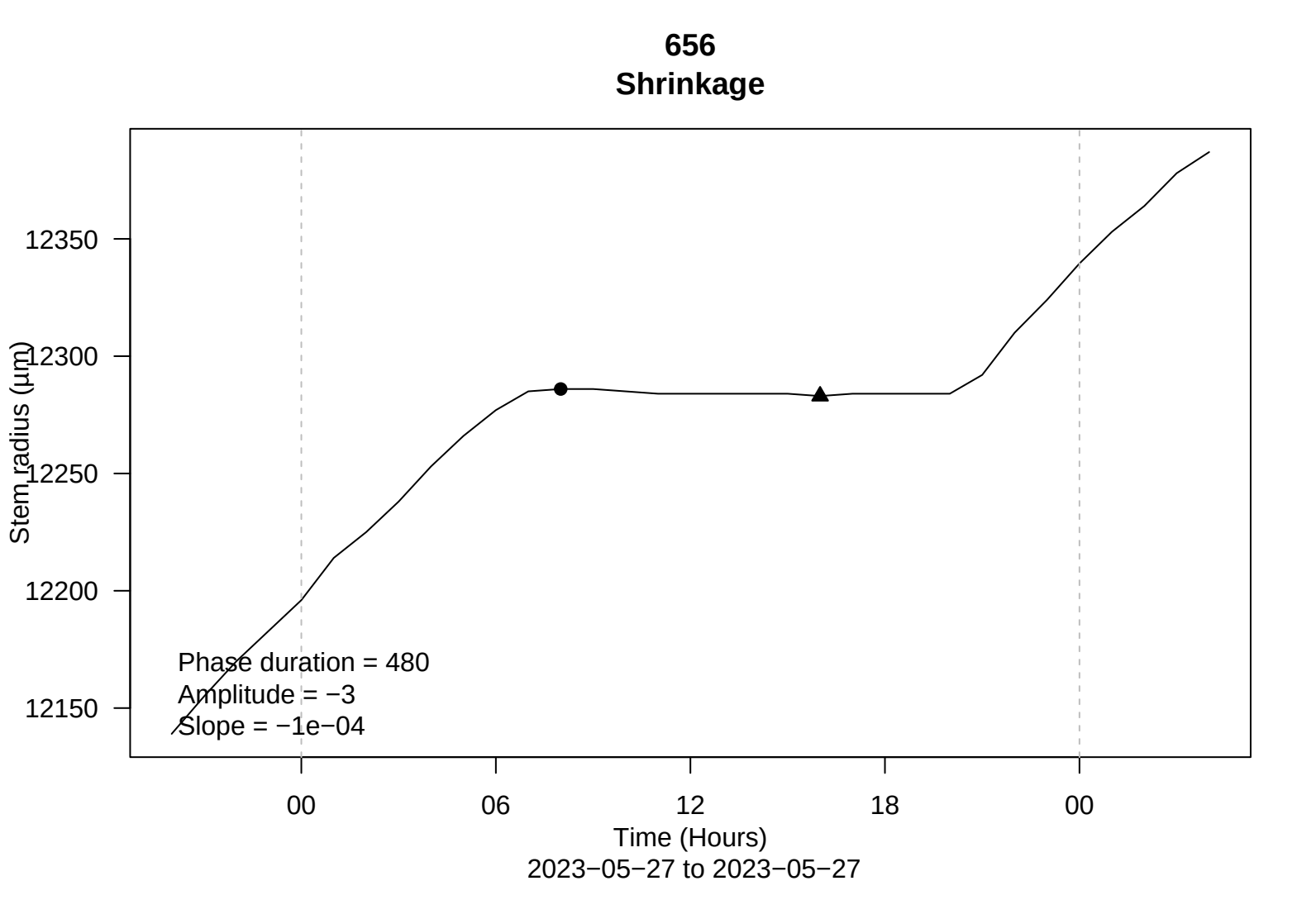

656
Shrinkage
11760
11740
11720
11700
11680
11660
Stem radius (µm)
Phase duration = 540
Amplitude = −10
Slope = −3e−04
00
12
00
Time (Hours)
2023−05−22 to 2023−05−22

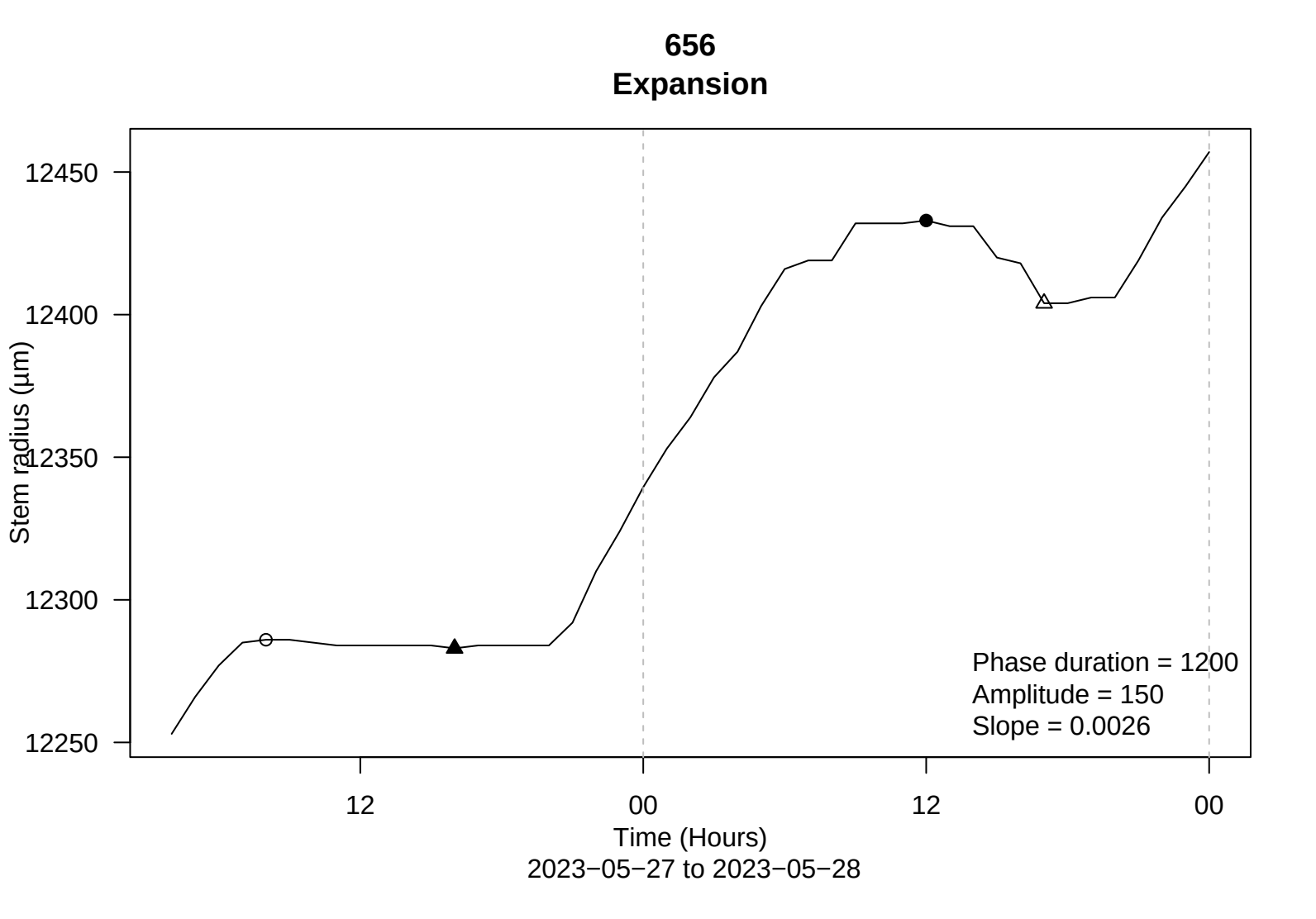

656
Expansion
11950
11900
11850
11800
11750
Stem radius (µm)
Phase duration = 2820
Amplitude = 172
Slope = 0.001
00
00
00
Time (Hours)
2023−05−22 to 2023−05−24

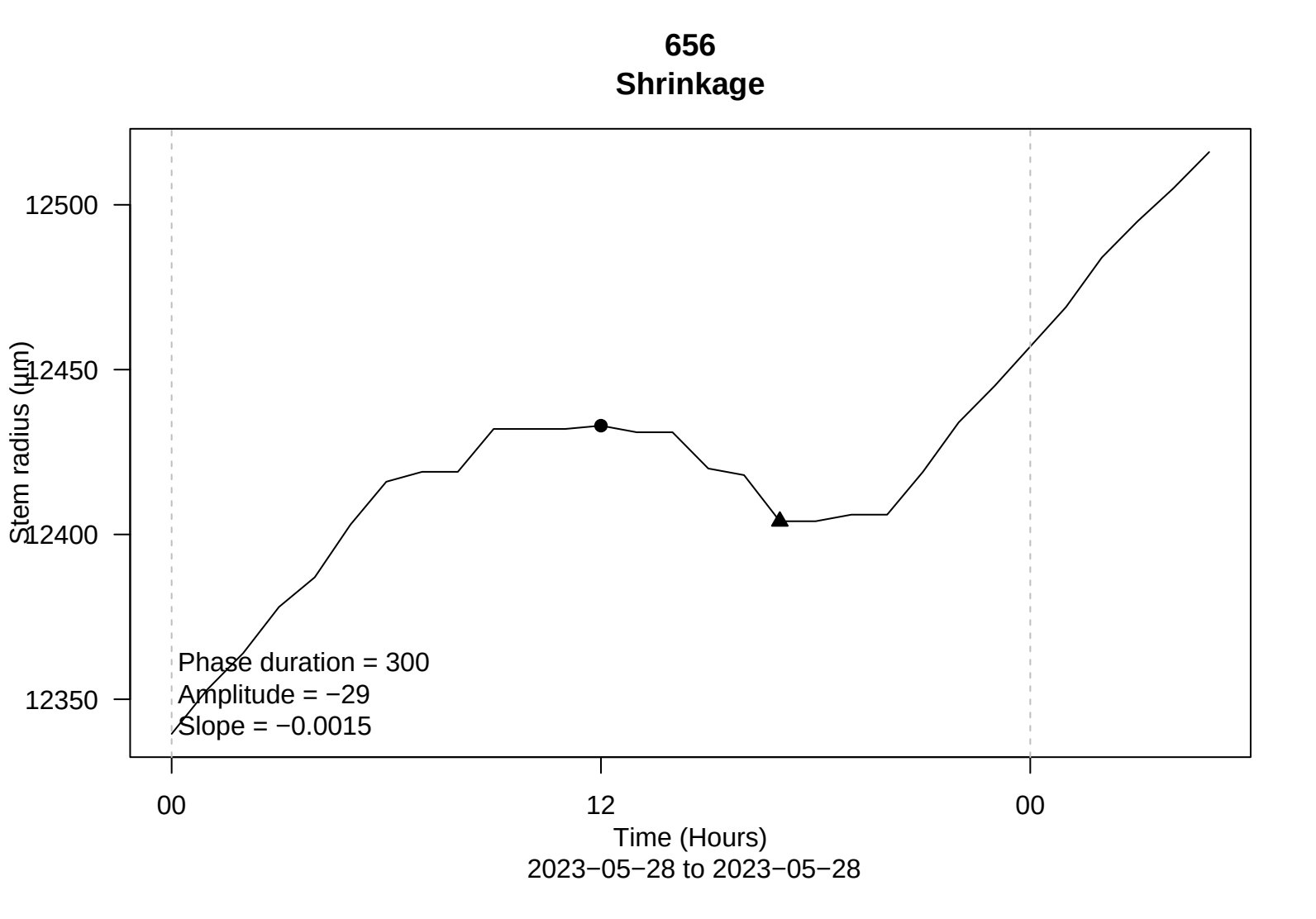

656
Expansion
12000
11950
11900
11850
Stem radius (µm)
Phase duration = 1080
Amplitude = 131
Slope = 0.0023
12
00
12
Time (Hours)
2023−05−24 to 2023−05−25

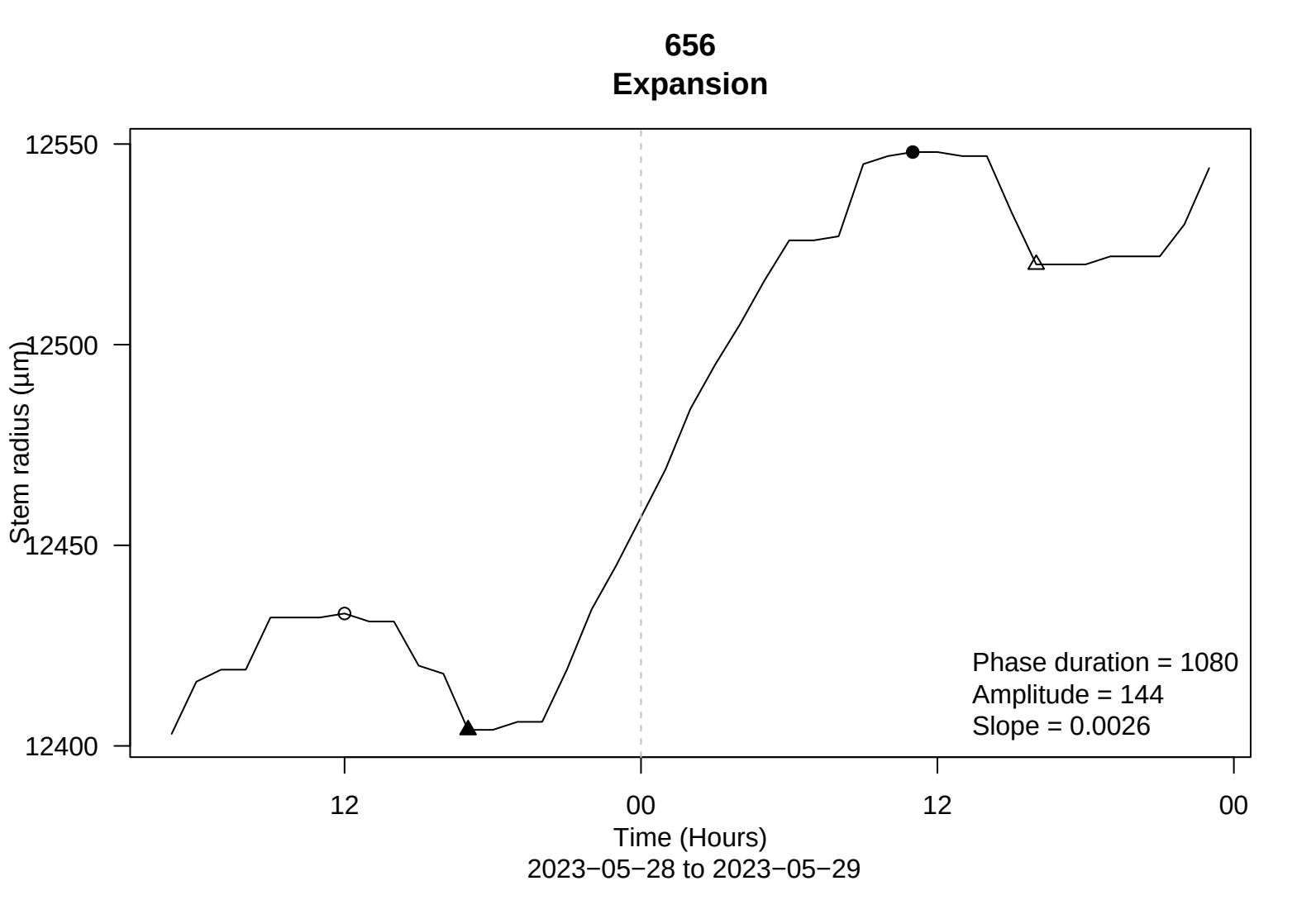

656
Shrinkage
12100
12050
12000
11950
Stem radius (µm)
Phase duration = 420
Amplitude = −24
Slope = −8e−04
00
12
00
Time (Hours)
2023−05−25 to 2023−05−25

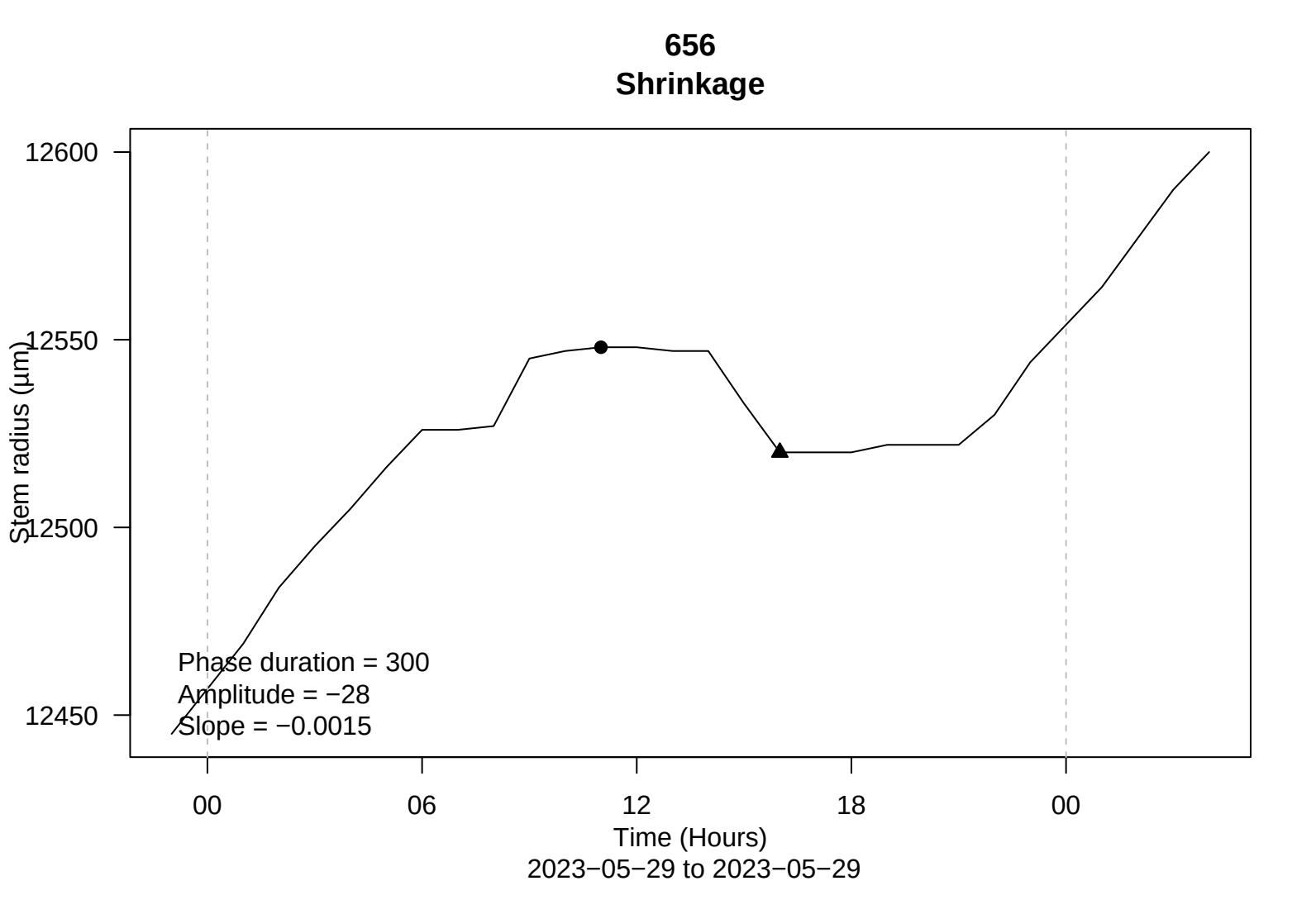

656
Expansion
12250
12200
12150
12100
12050
12000
Stem radius (µm)
Phase duration = 2340
Amplitude = 300
Slope = 0.0019
12
00
12
00
12
Time (Hours)
2023−05−25 to 2023−05−27

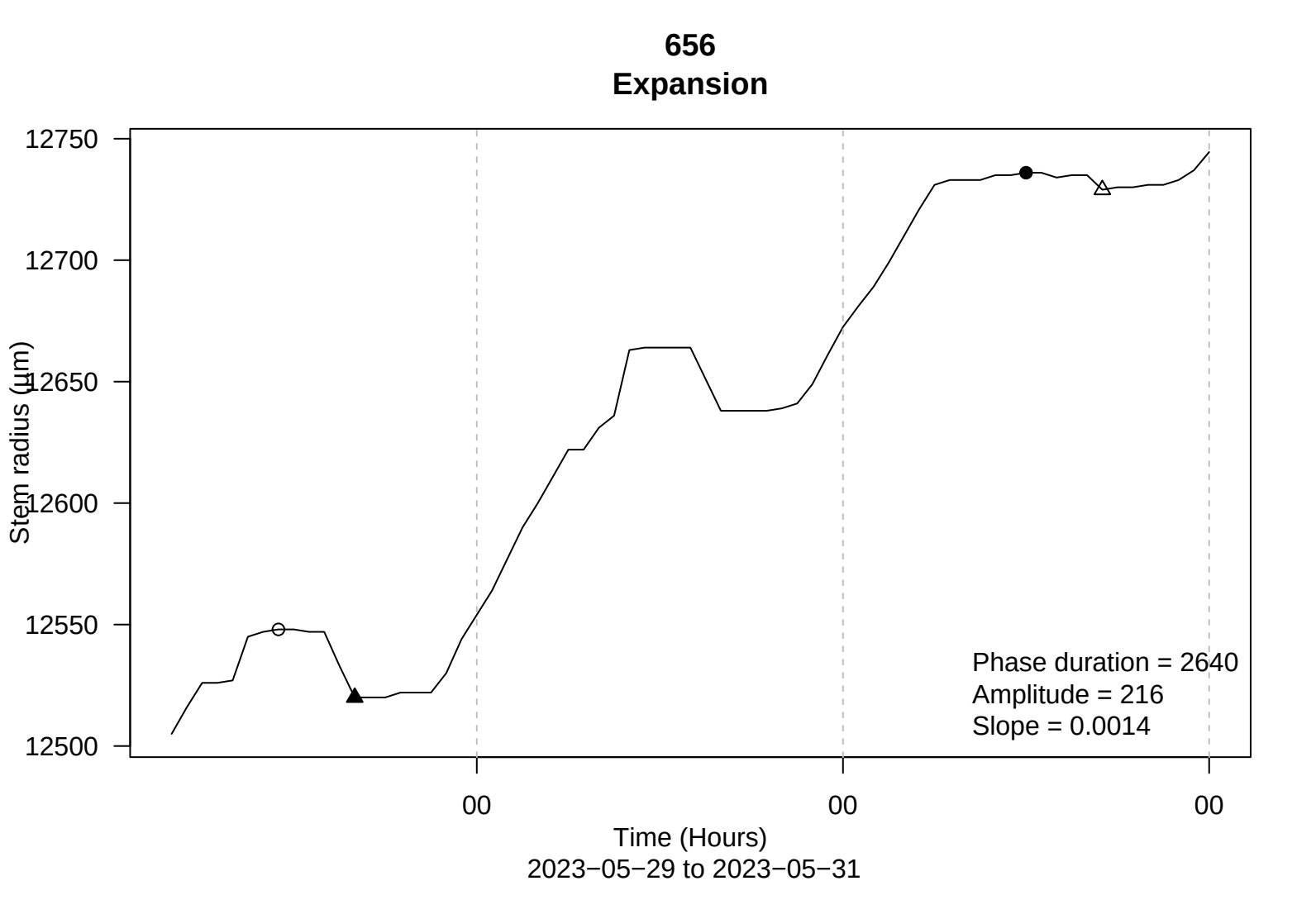

656
Shrinkage
12350
12300
12250
12200
12150
Stem radius (µm)
Phase duration = 480
Amplitude = −3
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−05−27 to 2023−05−27

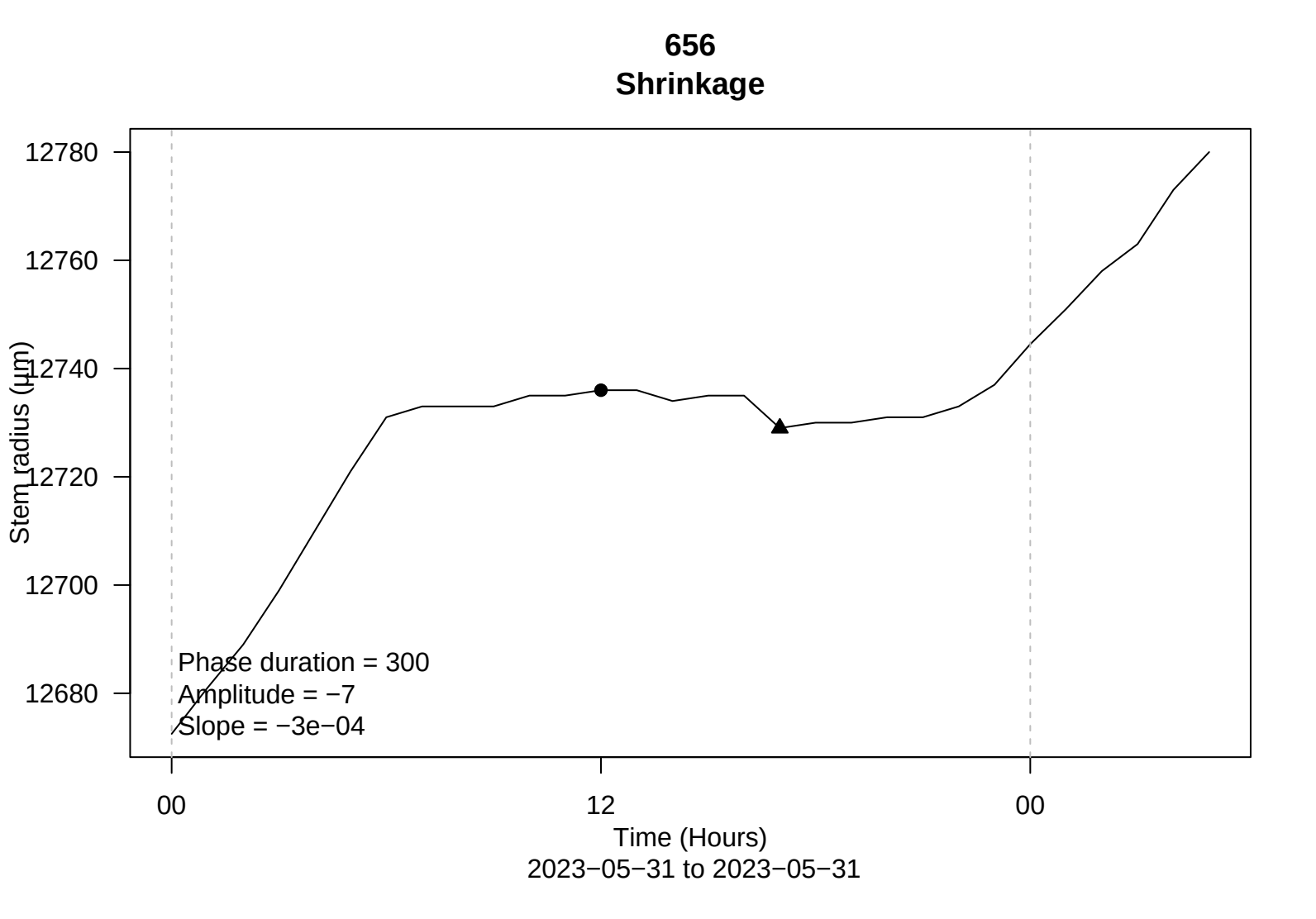

656
Expansion
12450
12400
12350
12300
12250
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−05−27 to 2023−05−28
Phase duration = 1200
Amplitude = 150
Slope = 0.0026

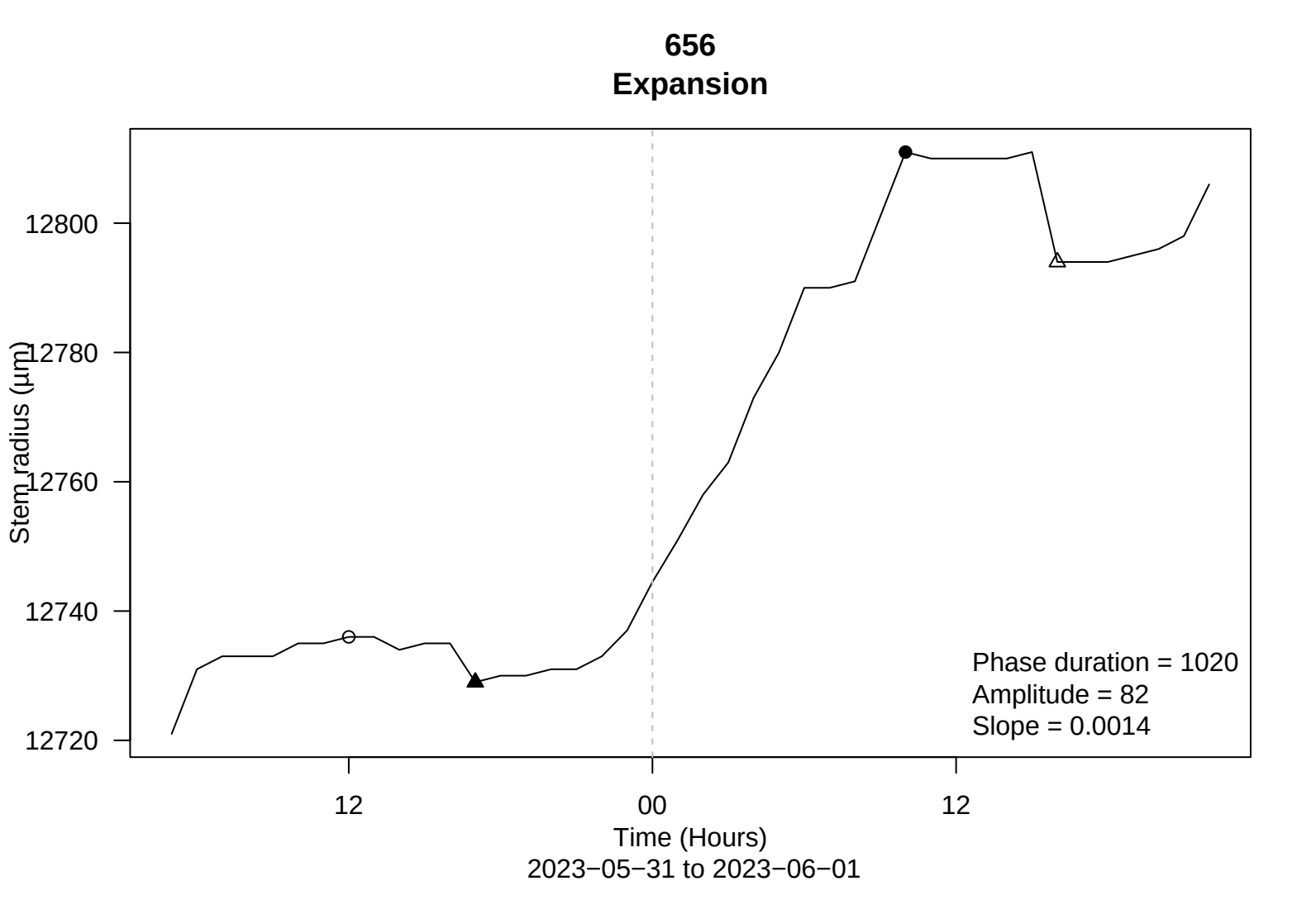

656
Shrinkage
12500
12450
12400
12350
Stem radius (µm)
Phase duration = 300
Amplitude = −29
Slope = −0.0015
00
12
00
Time (Hours)
2023−05−28 to 2023−05−28

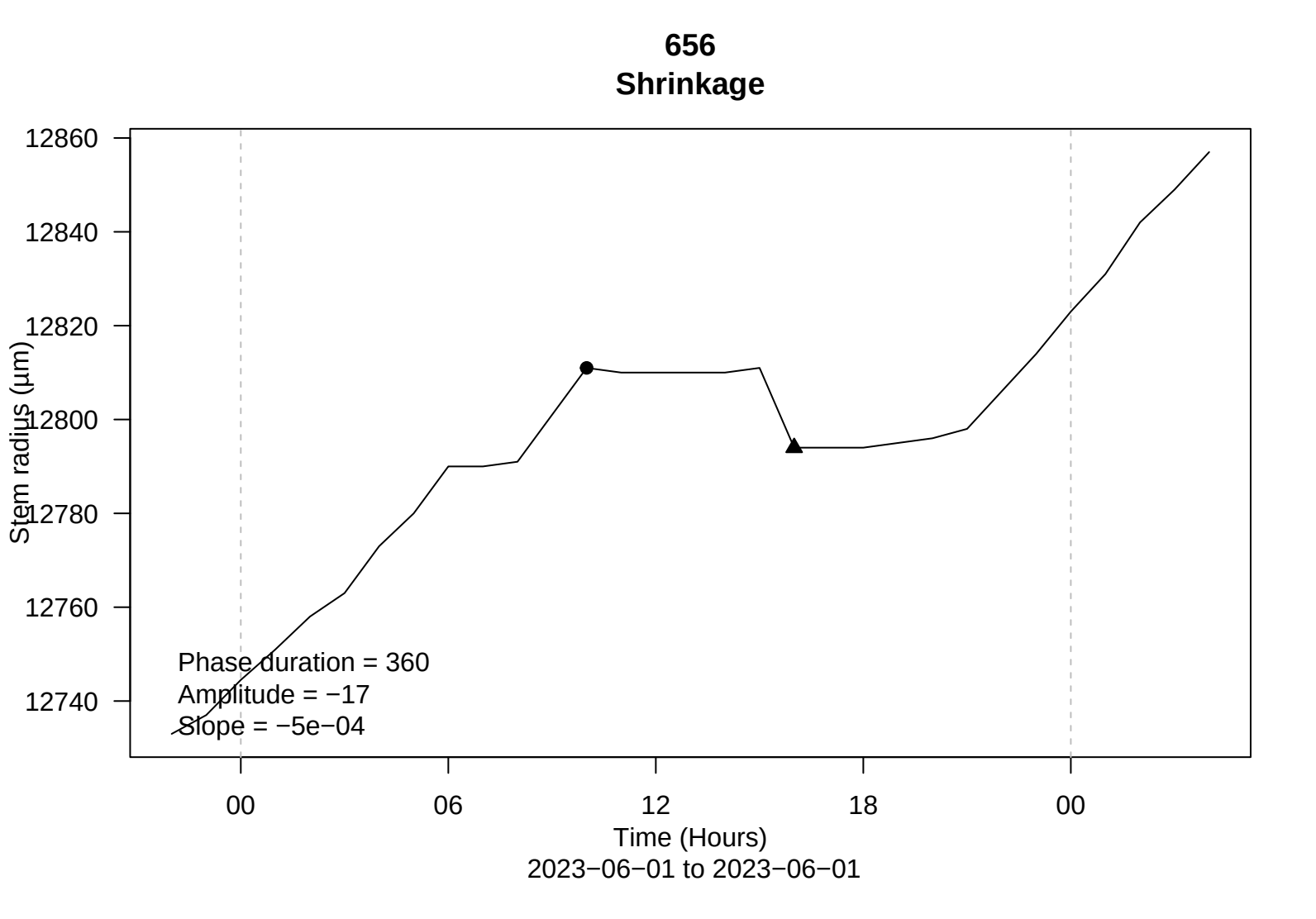

656
Expansion
12550
12500
12450
12400
Stem radius (µm)
Phase duration = 1080
Amplitude = 144
Slope = 0.0026
12
00
12
00
Time (Hours)
2023−05−28 to 2023−05−29

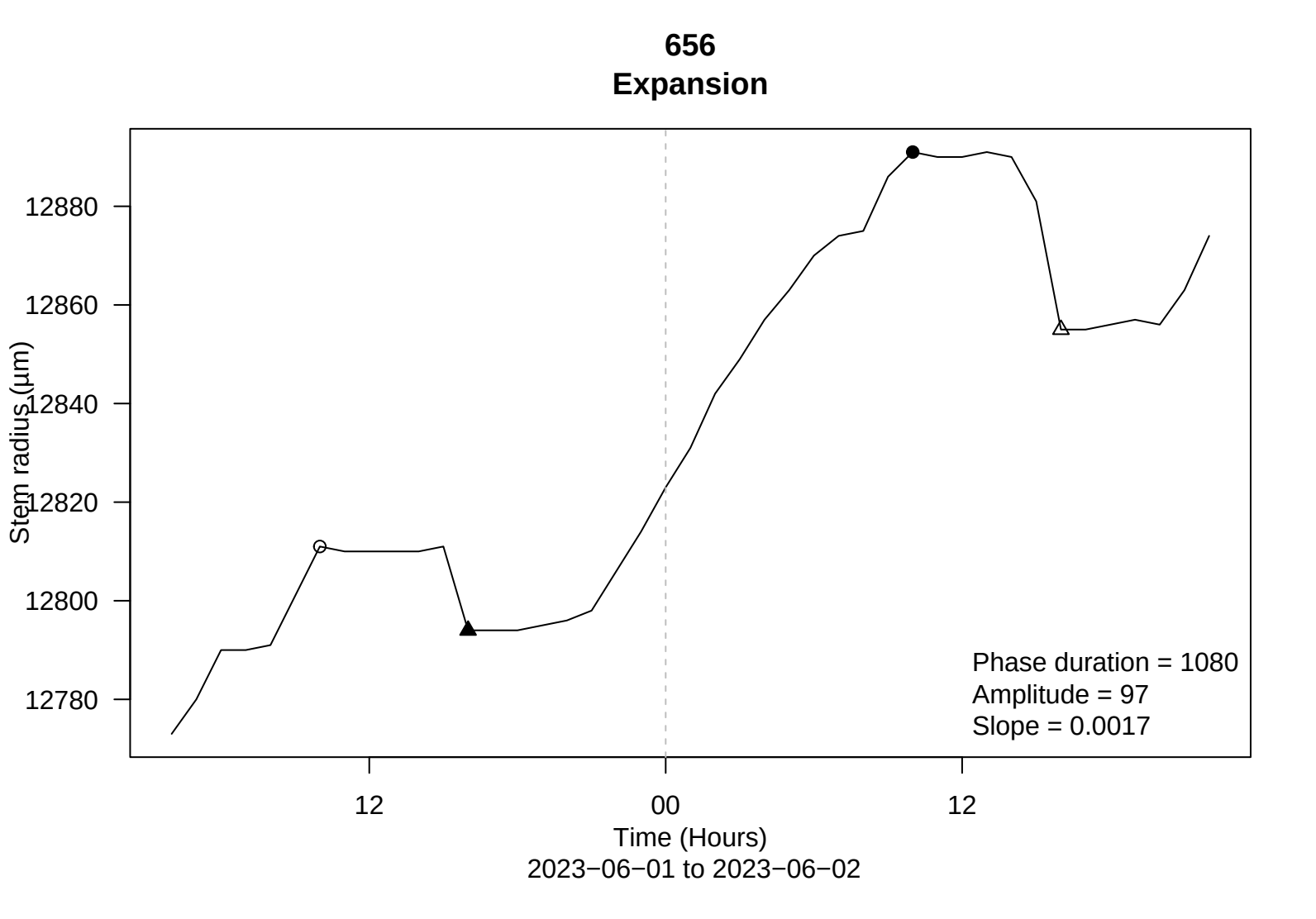

656
Shrinkage
12600
12550
12500
12450
Stem radius (µm)
Phase duration = 300
Amplitude = −28
Slope = −0.0015
00
06
12
18
00
Time (Hours)
2023−05−29 to 2023−05−29

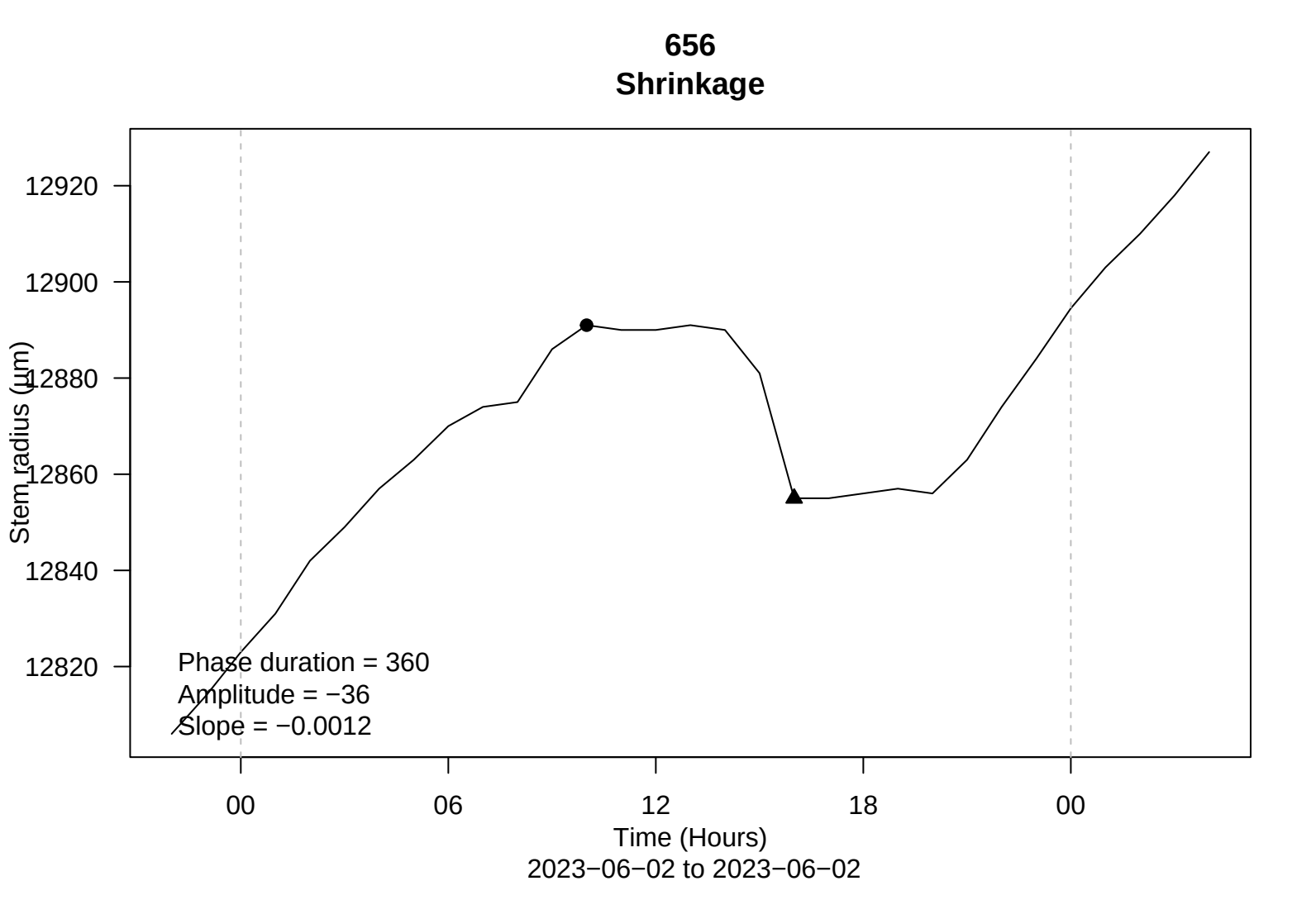

656
Expansion
12750
12700
12650
12600
12550
12500
Stem radius (µm)
Phase duration = 2640
Amplitude = 216
Slope = 0.0014
00
00
00
Time (Hours)
2023−05−29 to 2023−05−31

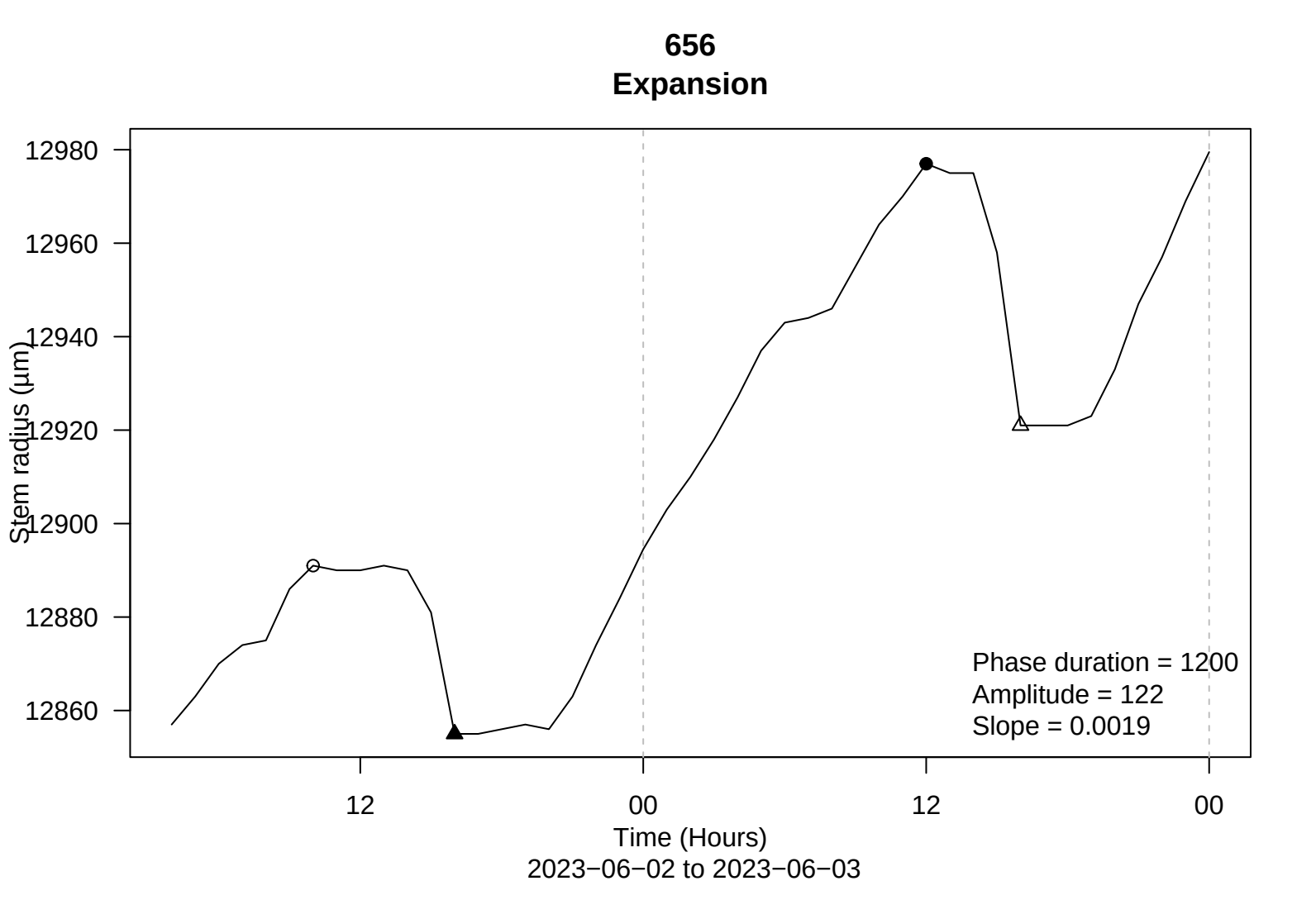

656
Shrinkage
12780
12760
12740
12720
12700
12680
Stem radius (µm)
Phase duration = 300
Amplitude = −7
Slope = −3e−04
00
12
00
Time (Hours)
2023−05−31 to 2023−05−31

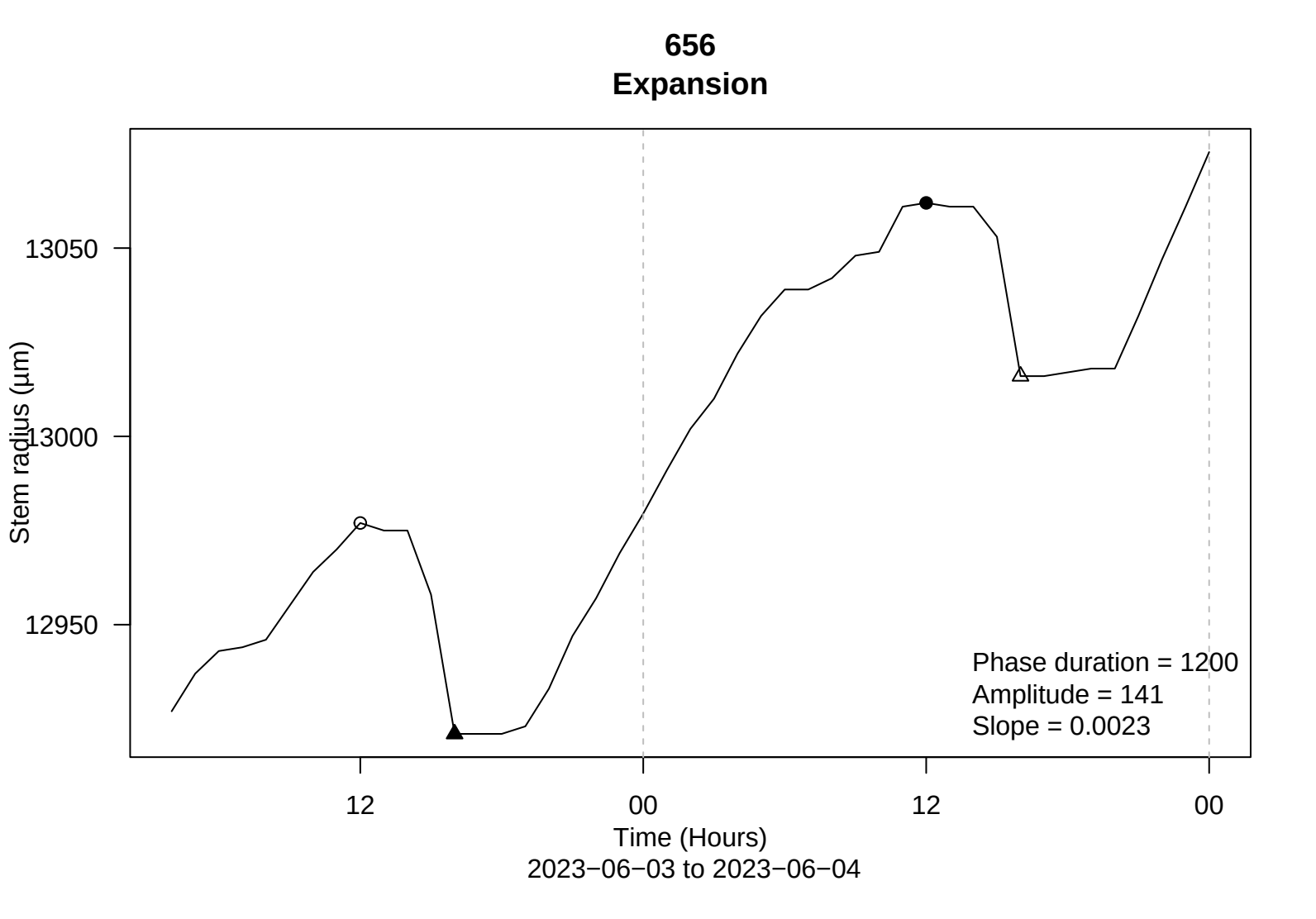

656
Expansion
12800
12780
12760
12740
12720
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−31 to 2023−06−01
Phase duration = 1020
Amplitude = 82
Slope = 0.0014

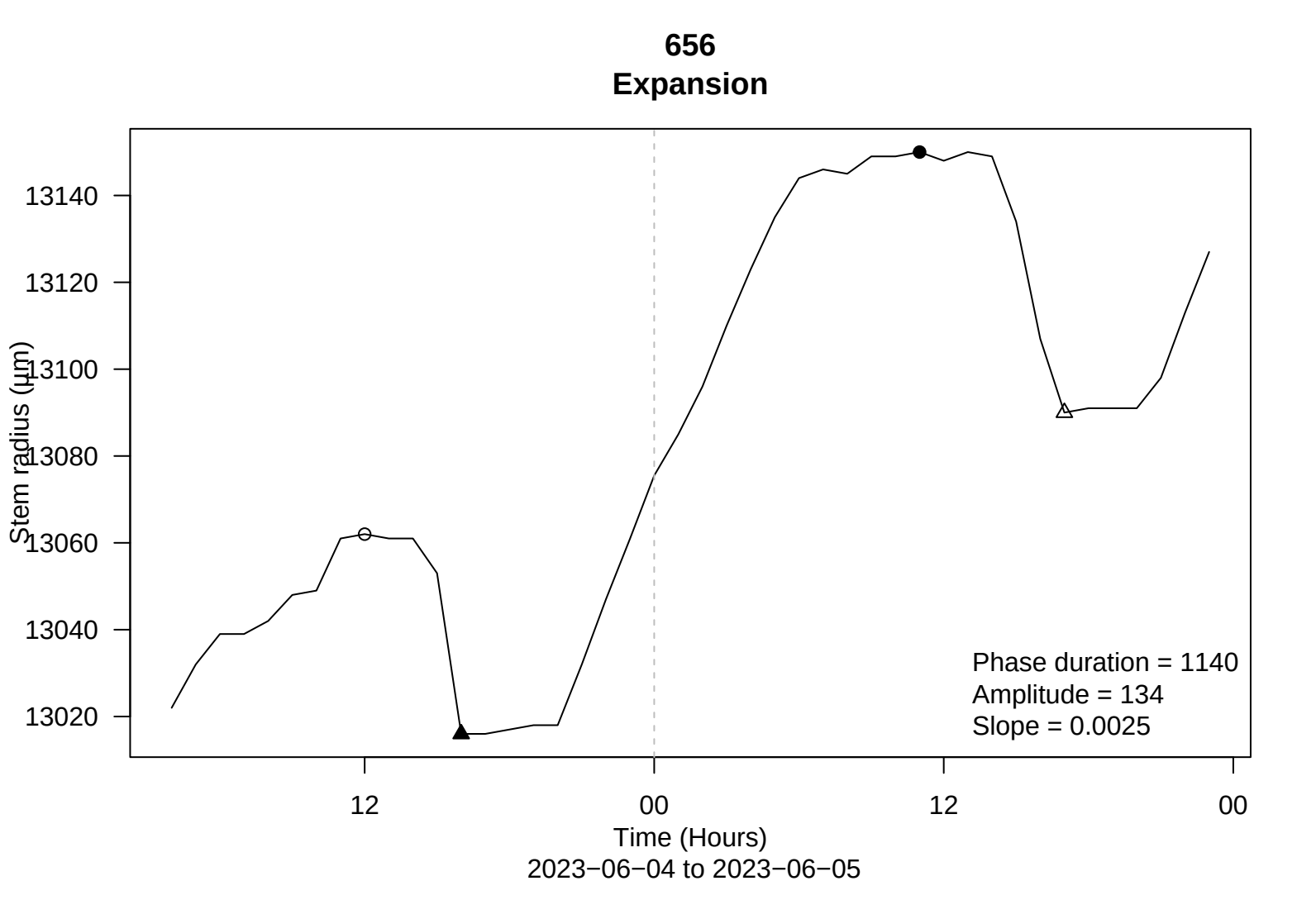

656
Shrinkage
12860
12840
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 360
Amplitude = −17
Slope = −5e−04
00
06
12
18
00
Time (Hours)
2023−06−01 to 2023−06−01

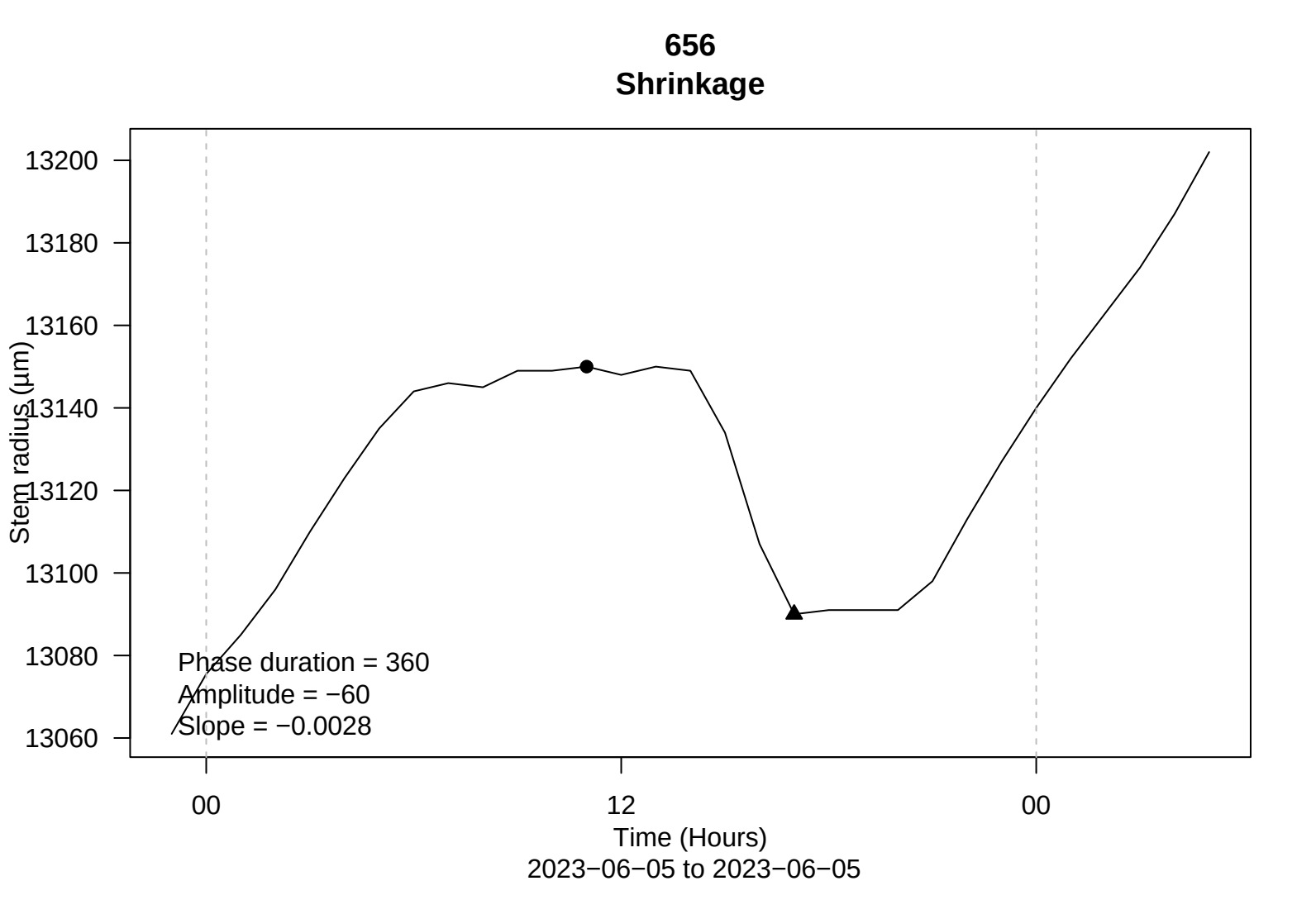

656
Expansion
12880
12860
12840
12820
12800
12780
Stem radius (µm)
Phase duration = 1080
Amplitude = 97
Slope = 0.0017
12
00
12
Time (Hours)
2023−06−01 to 2023−06−02

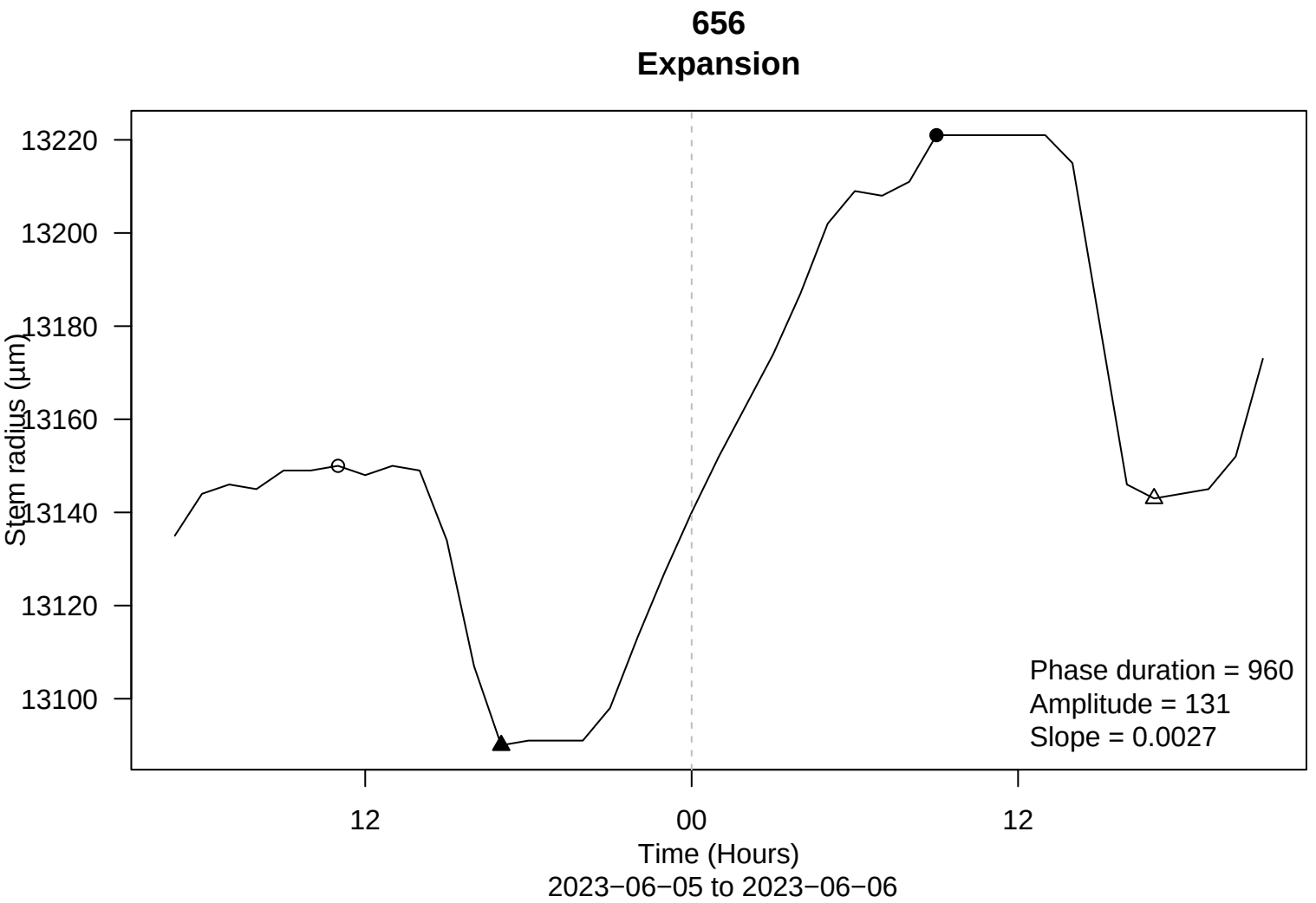

656
Shrinkage
12920
12900
12880
12860
12840
12820
Stem radius (µm)
Phase duration = 360
Amplitude = −36
Slope = −0.0012
00
06
12
18
00
Time (Hours)
2023−06−02 to 2023−06−02

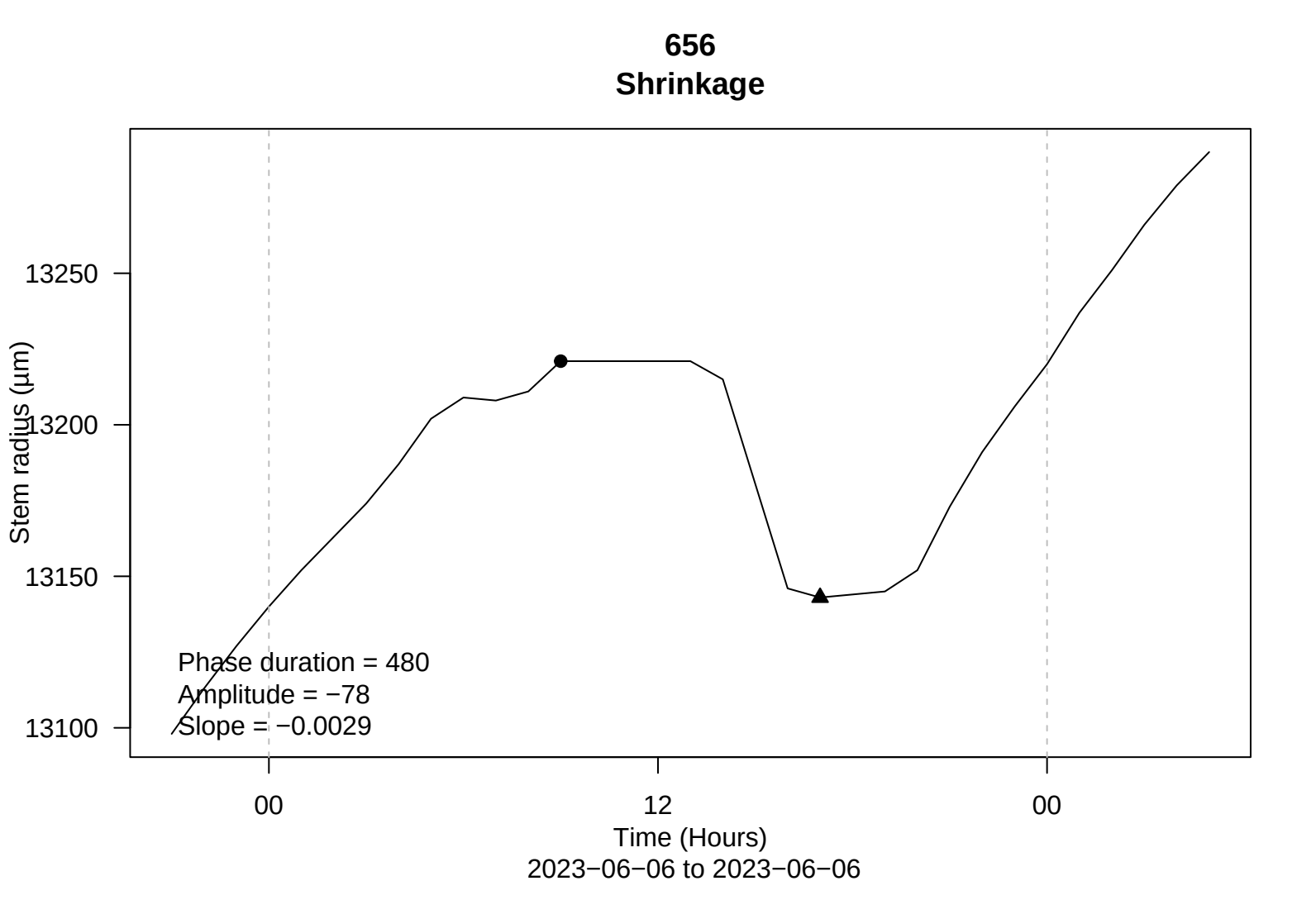

656
Expansion
12980
12960
12940
12920
12900
12880
12860
Stem radius (µm)
Phase duration = 1200
Amplitude = 122
Slope = 0.0019
12
00
12
00
Time (Hours)
2023−06−02 to 2023−06−03

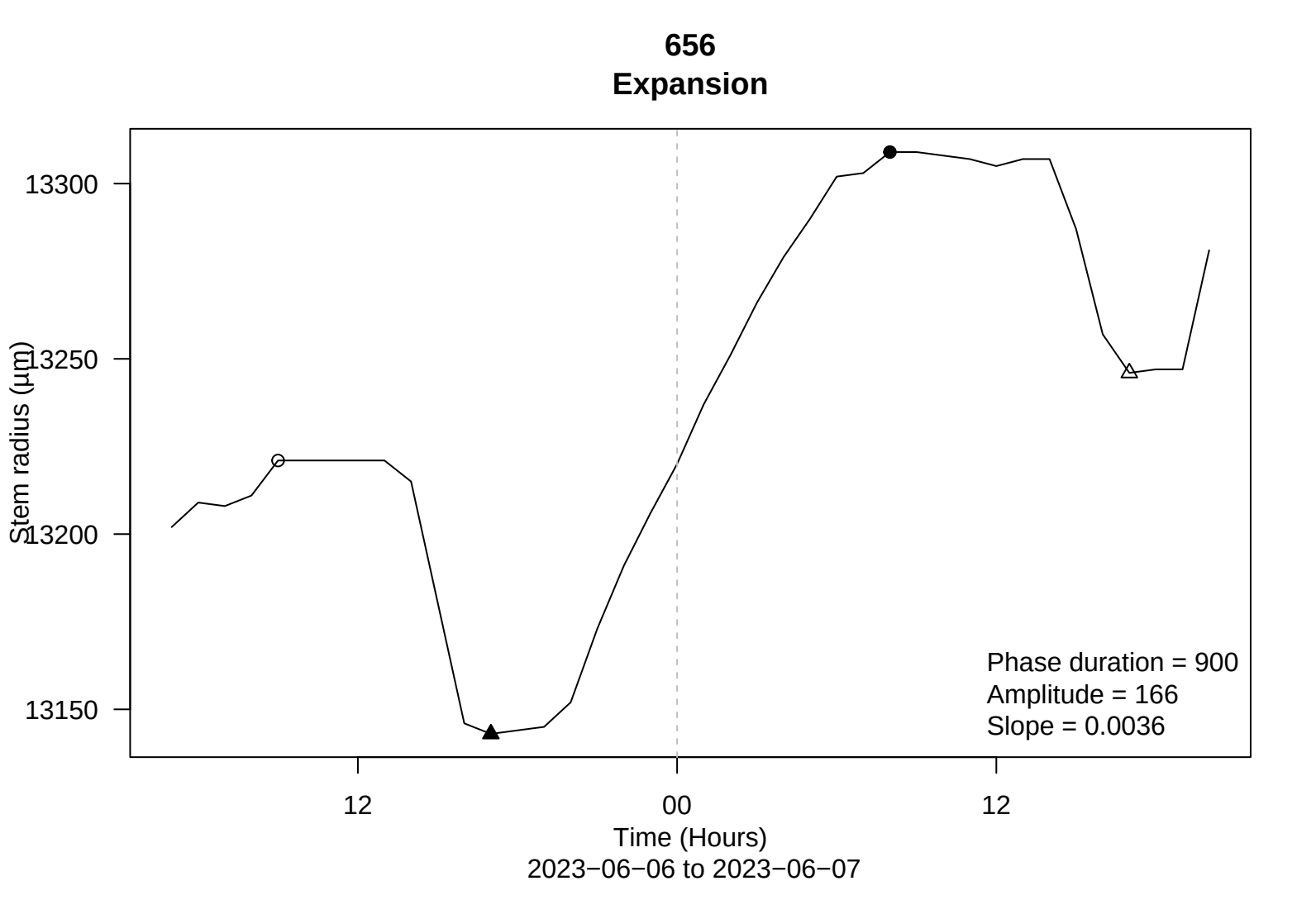

656
Expansion
13050
13000
12950
Stem radius (µm)
Phase duration = 1200
Amplitude = 141
Slope = 0.0023
12
00
12
00
Time (Hours)
2023−06−03 to 2023−06−04

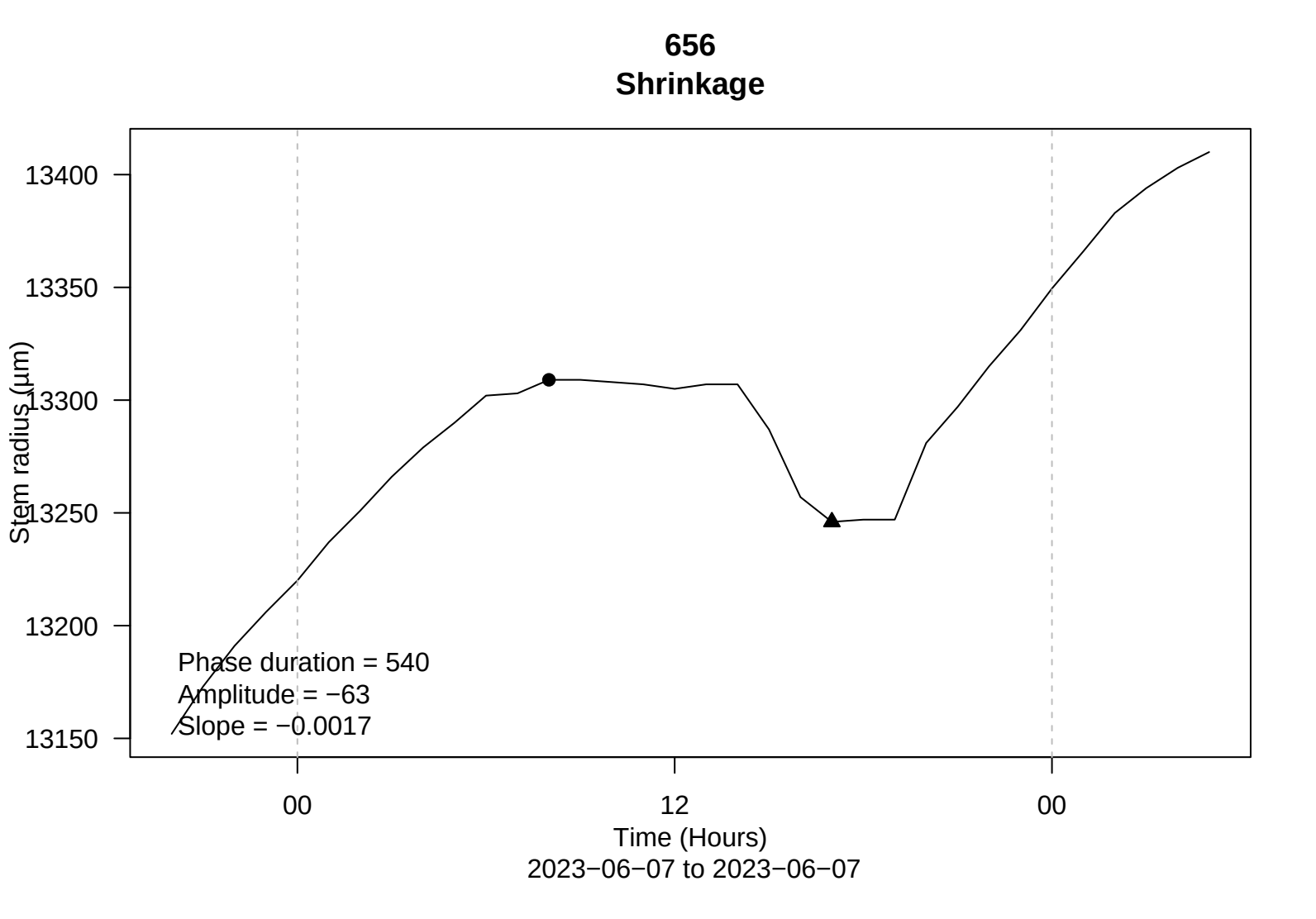

656
Expansion
13140
13120
13100
13080
13060
13040
13020
Stem radius (µm)
Phase duration = 1140
Amplitude = 134
Slope = 0.0025
12
00
12
00
Time (Hours)
2023−06−04 to 2023−06−05

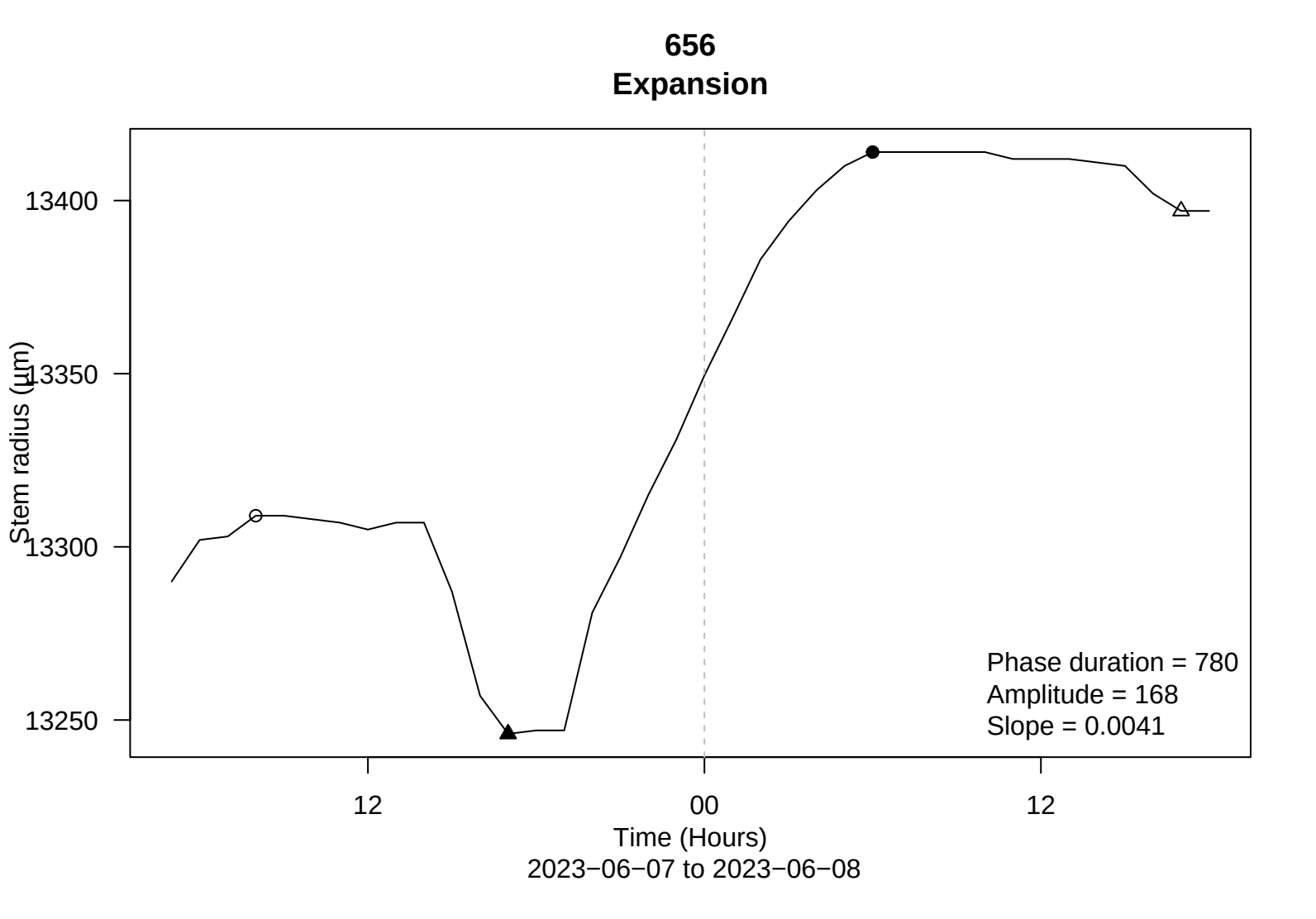

656
Shrinkage
13200
13180
13160
13140
13120
13100
13080
13060
Stem radius (µm)
Phase duration = 360
Amplitude = −60
Slope = −0.0028
00
12
00
Time (Hours)
2023−06−05 to 2023−06−05

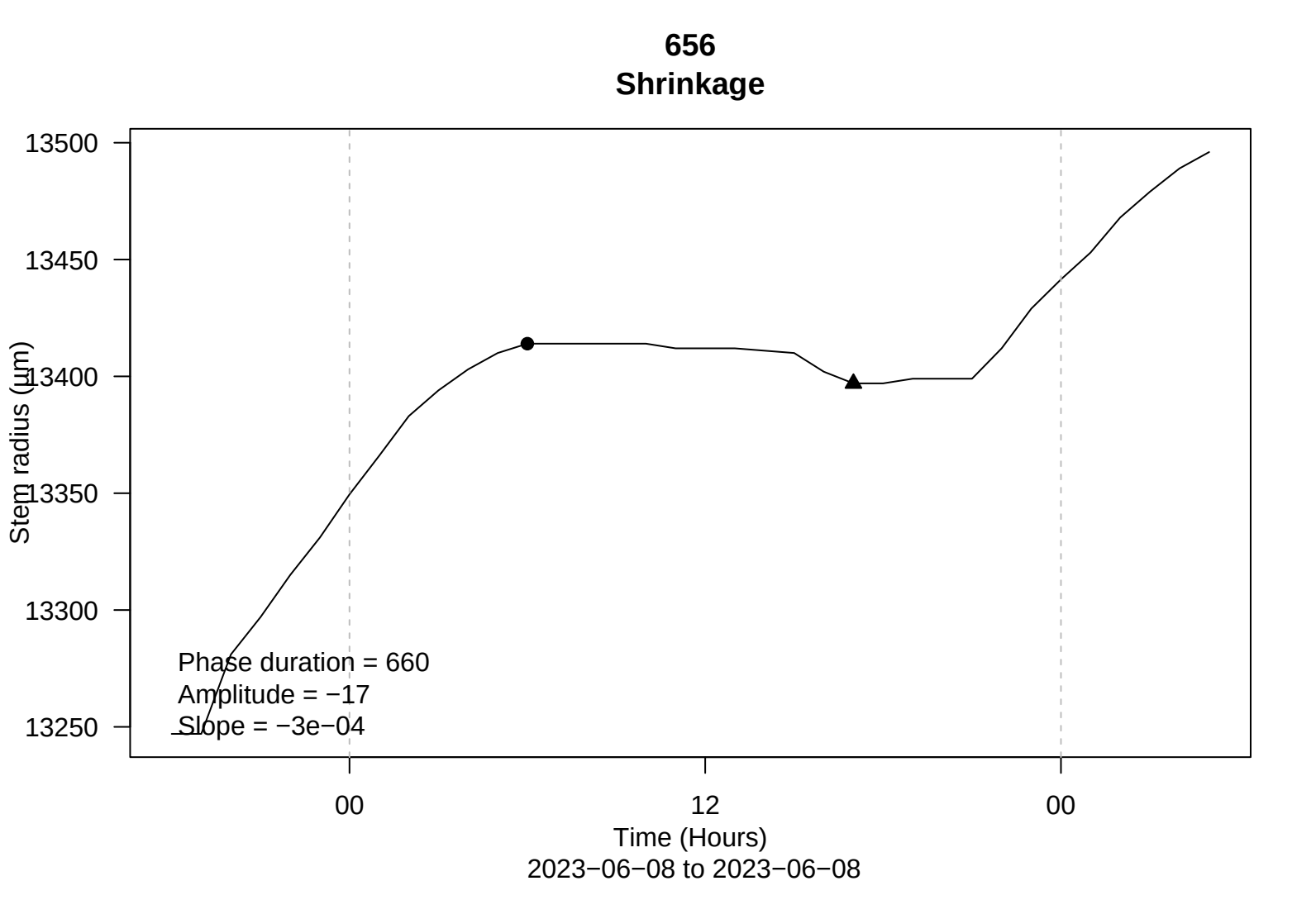

656
Expansion
13220
13200
13180
13160
13140
13120
13100
Stem radius (µm)
Phase duration = 960
Amplitude = 131
Slope = 0.0027
12
00
12
Time (Hours)
2023−06−05 to 2023−06−06

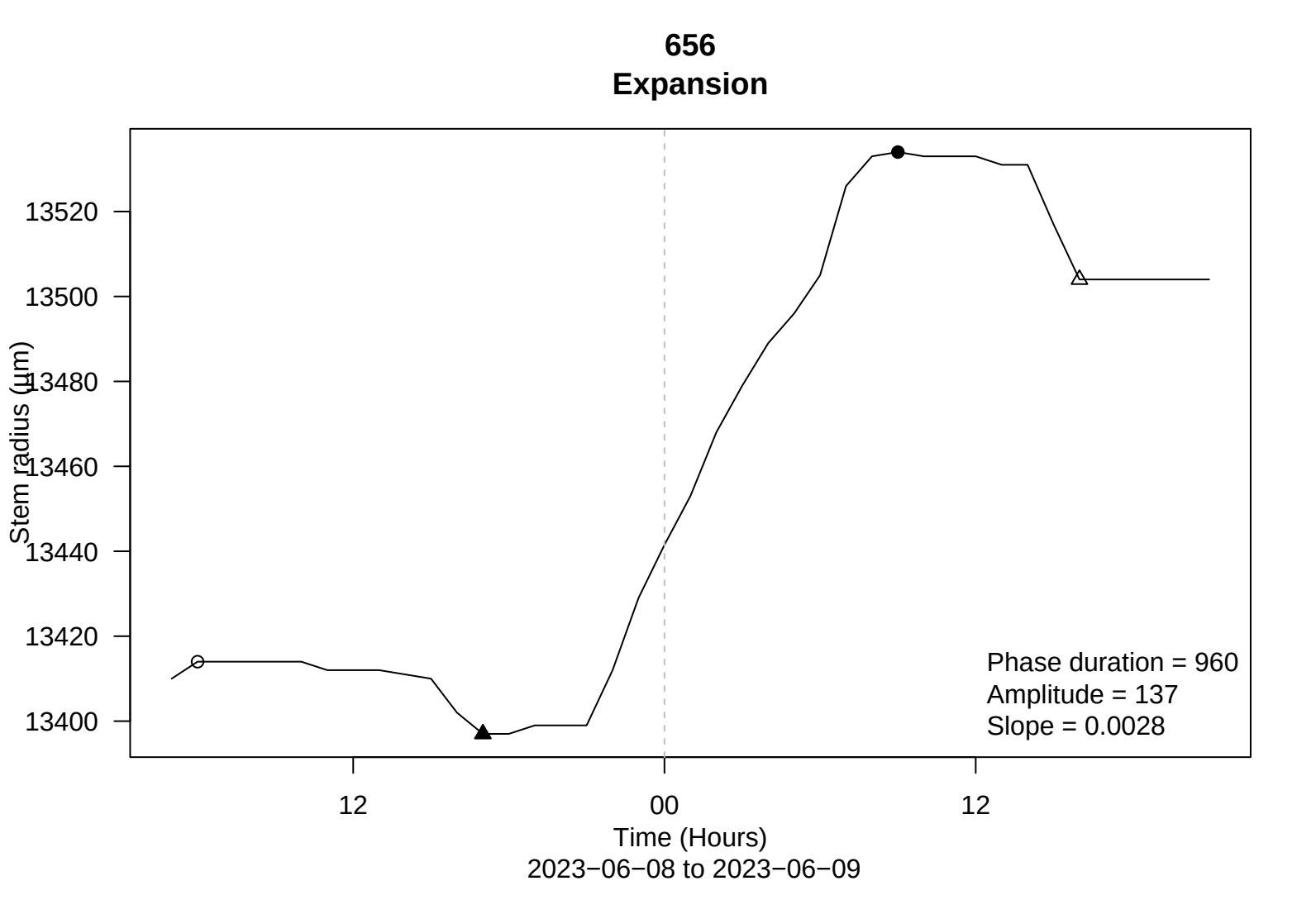

656
Shrinkage
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 480
Amplitude = −78
Slope = −0.0029
00
12
00
Time (Hours)
2023−06−06 to 2023−06−06

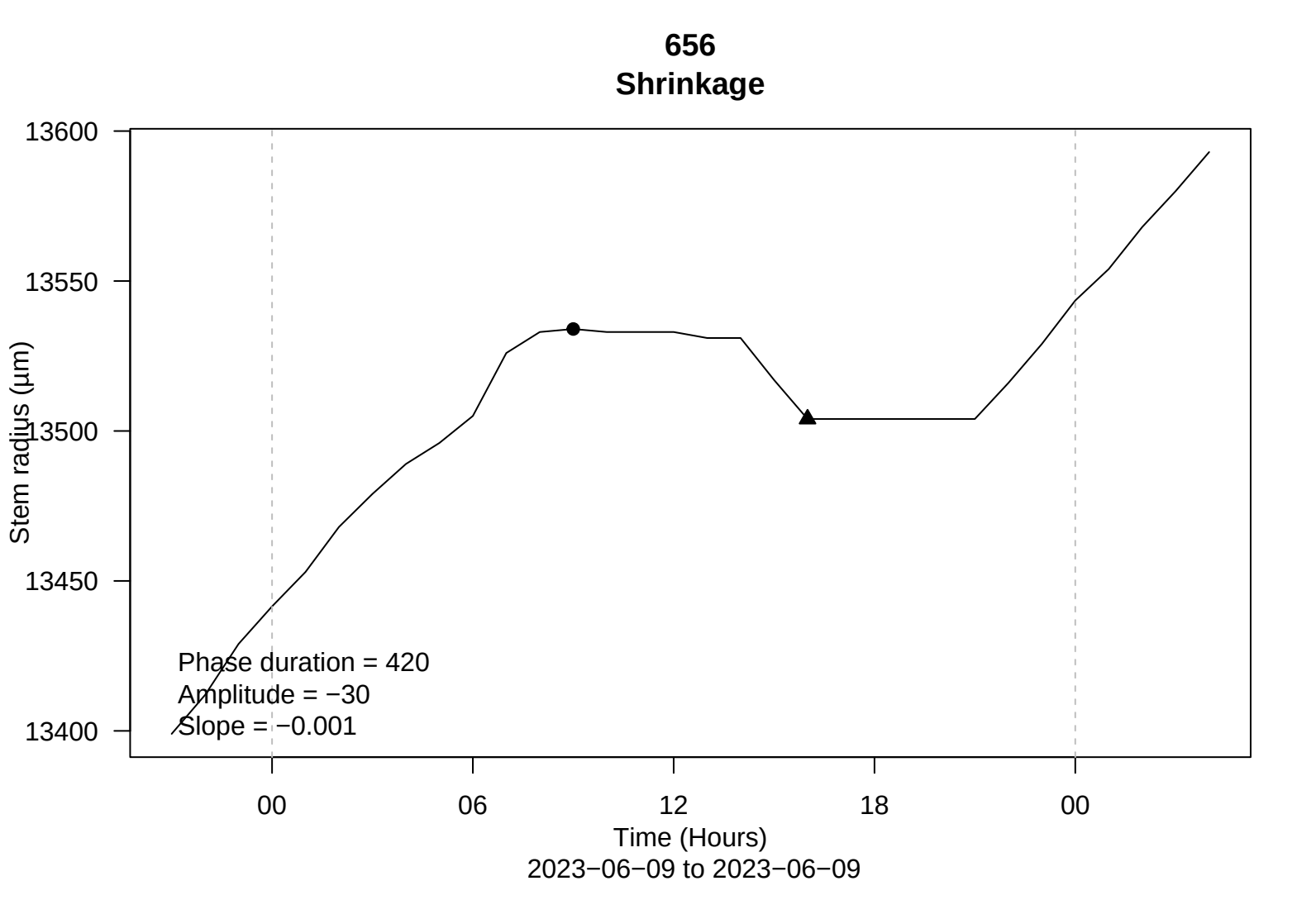

656
Expansion
13300
13250
13200
13150
Stem radius (µm)
Phase duration = 900
Amplitude = 166
Slope = 0.0036
12
00
12
Time (Hours)
2023−06−06 to 2023−06−07

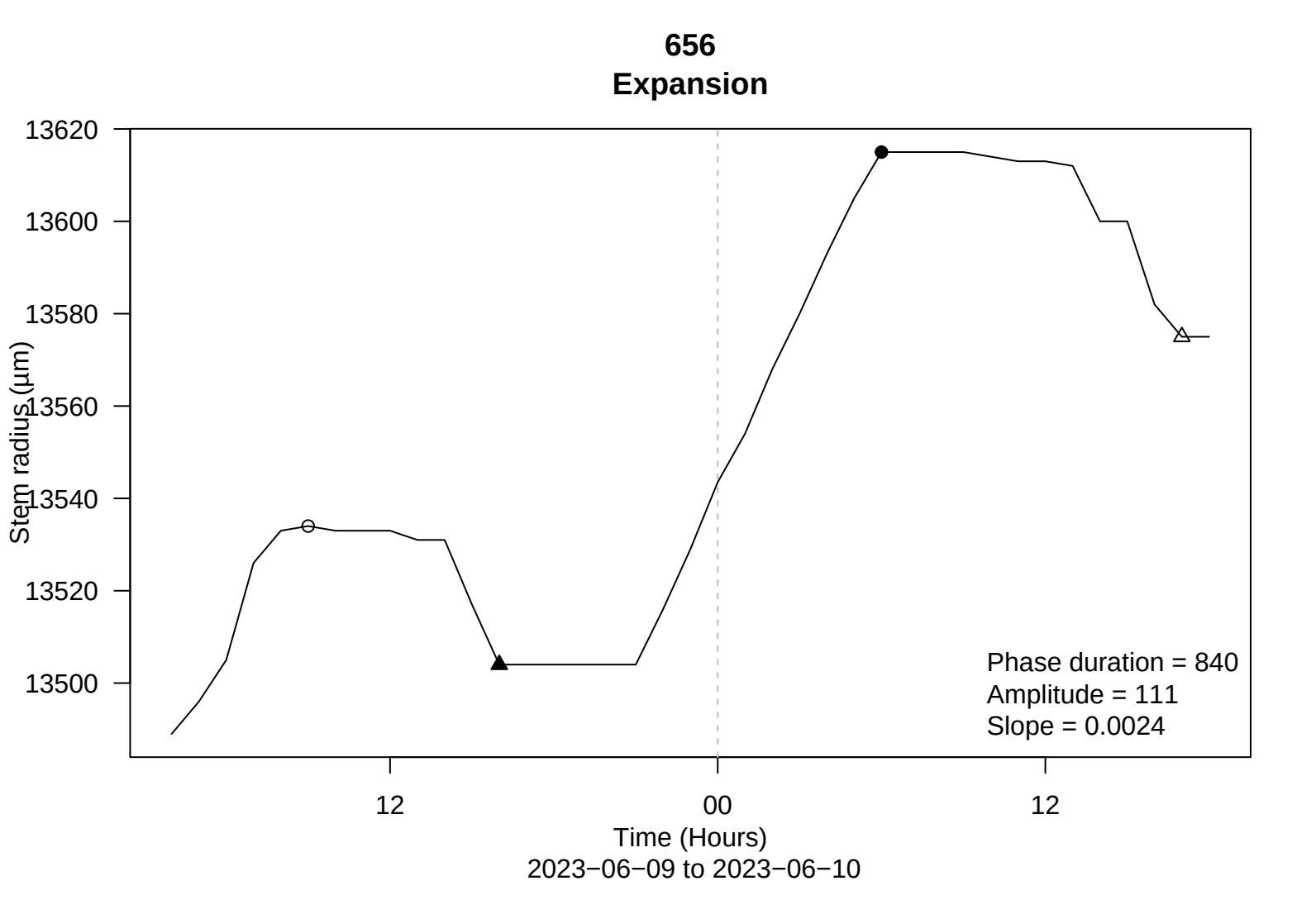

656
Shrinkage
13400
13350
13300
13250
13200
13150
Stem radius (µm)
Phase duration = 540
Amplitude = −63
Slope = −0.0017
00
12
00
Time (Hours)
2023−06−07 to 2023−06−07

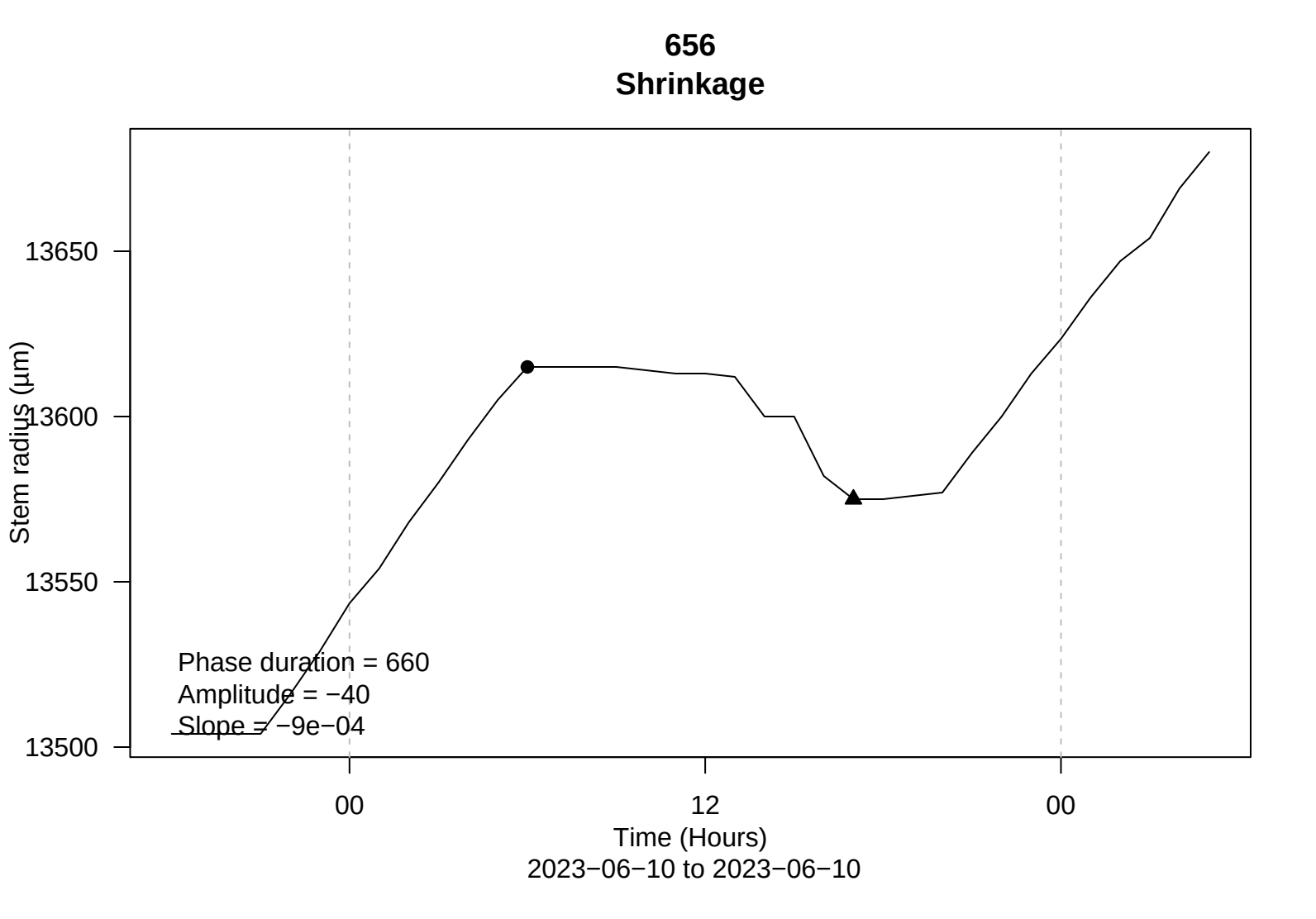

656
Expansion
13400
13350
13300
13250
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−07 to 2023−06−08
Phase duration = 780
Amplitude = 168
Slope = 0.0041

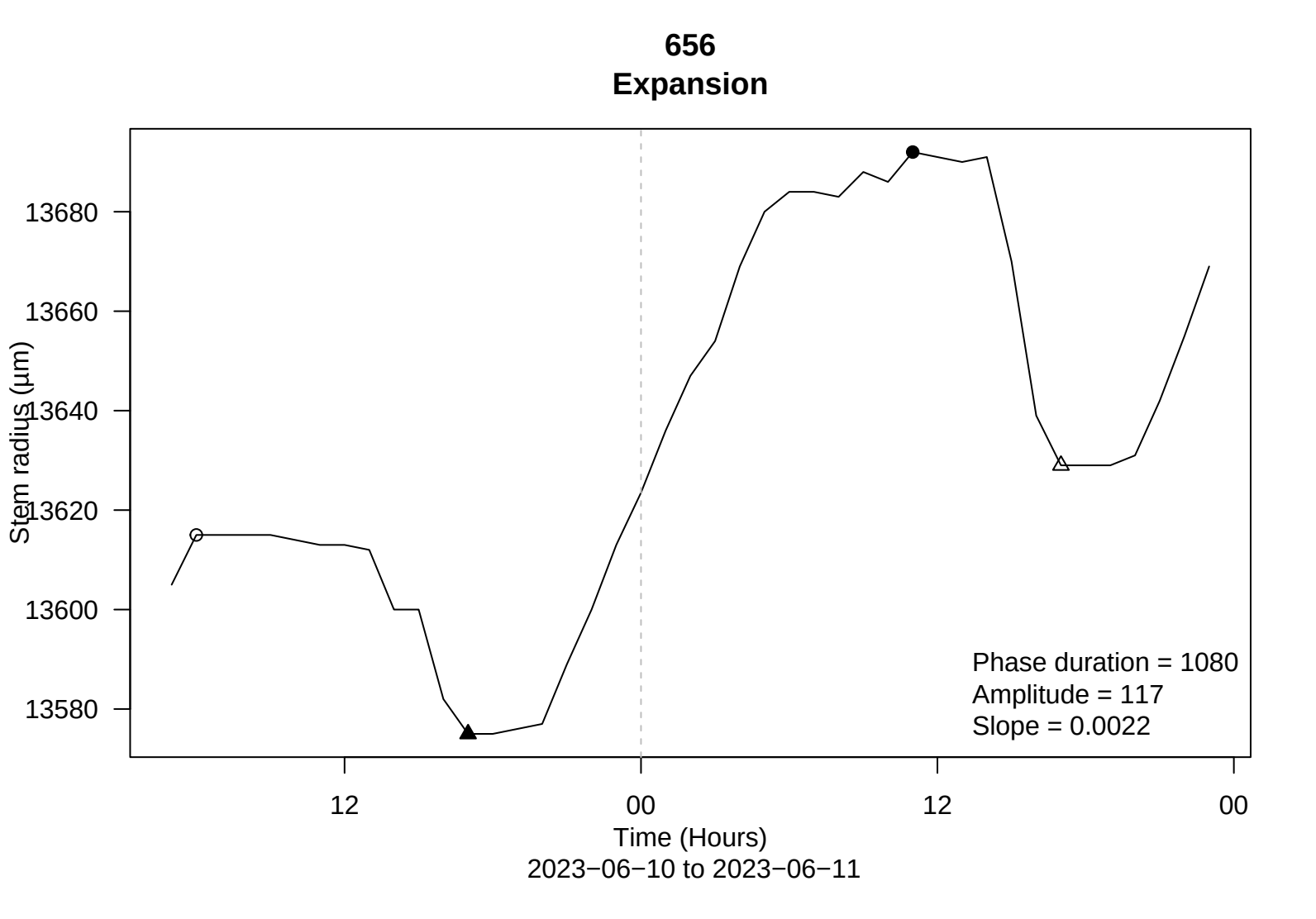

656
Shrinkage
13500
13450
13400
13350
13300
13250
Stem radius (µm)
Phase duration = 660
Amplitude = −17
Slope = −3e−04
00
12
00
Time (Hours)
2023−06−08 to 2023−06−08

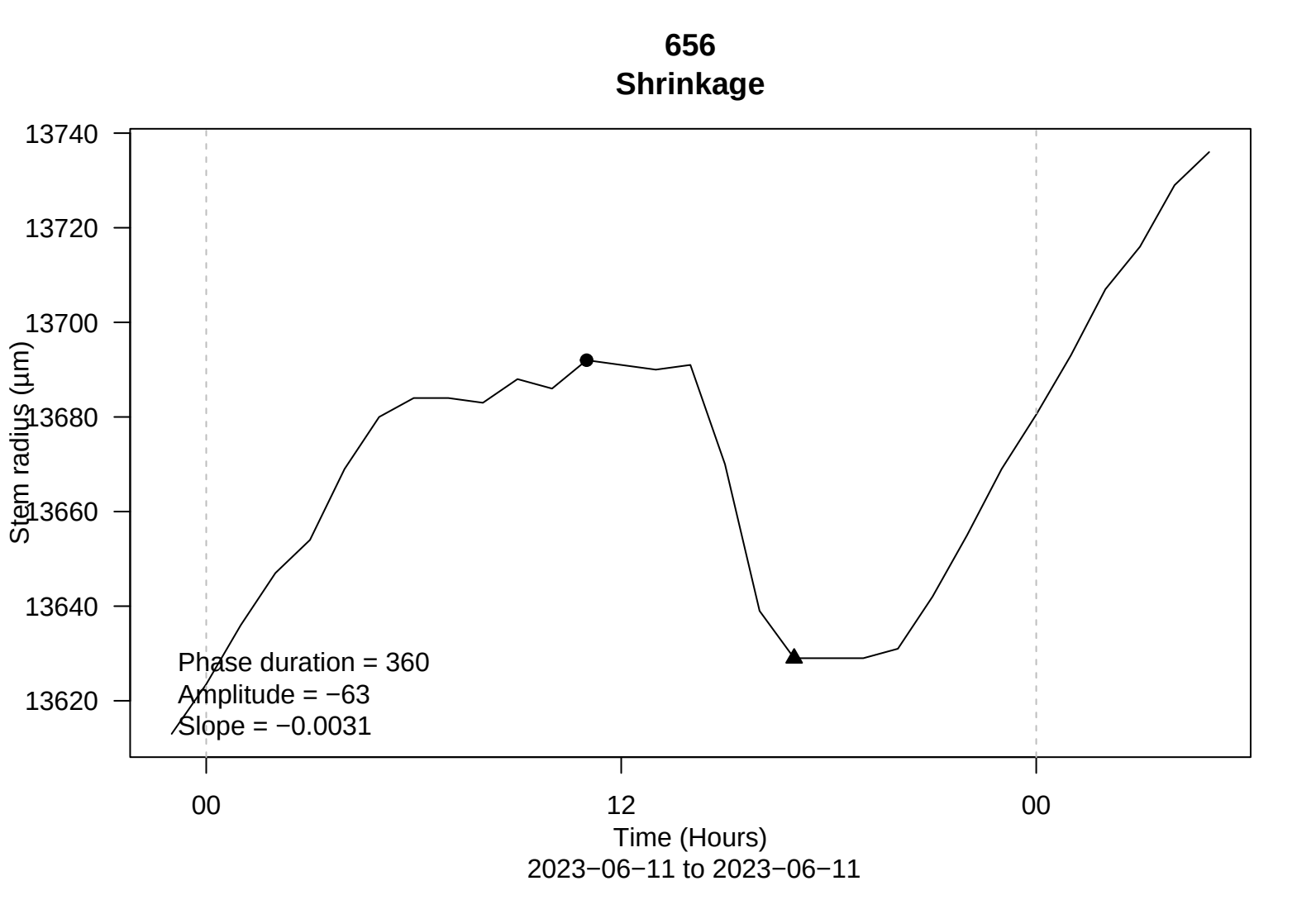

656
Expansion
13520
13500
13480
13460
13440
13420
13400
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−08 to 2023−06−09
Phase duration = 960
Amplitude = 137
Slope = 0.0028

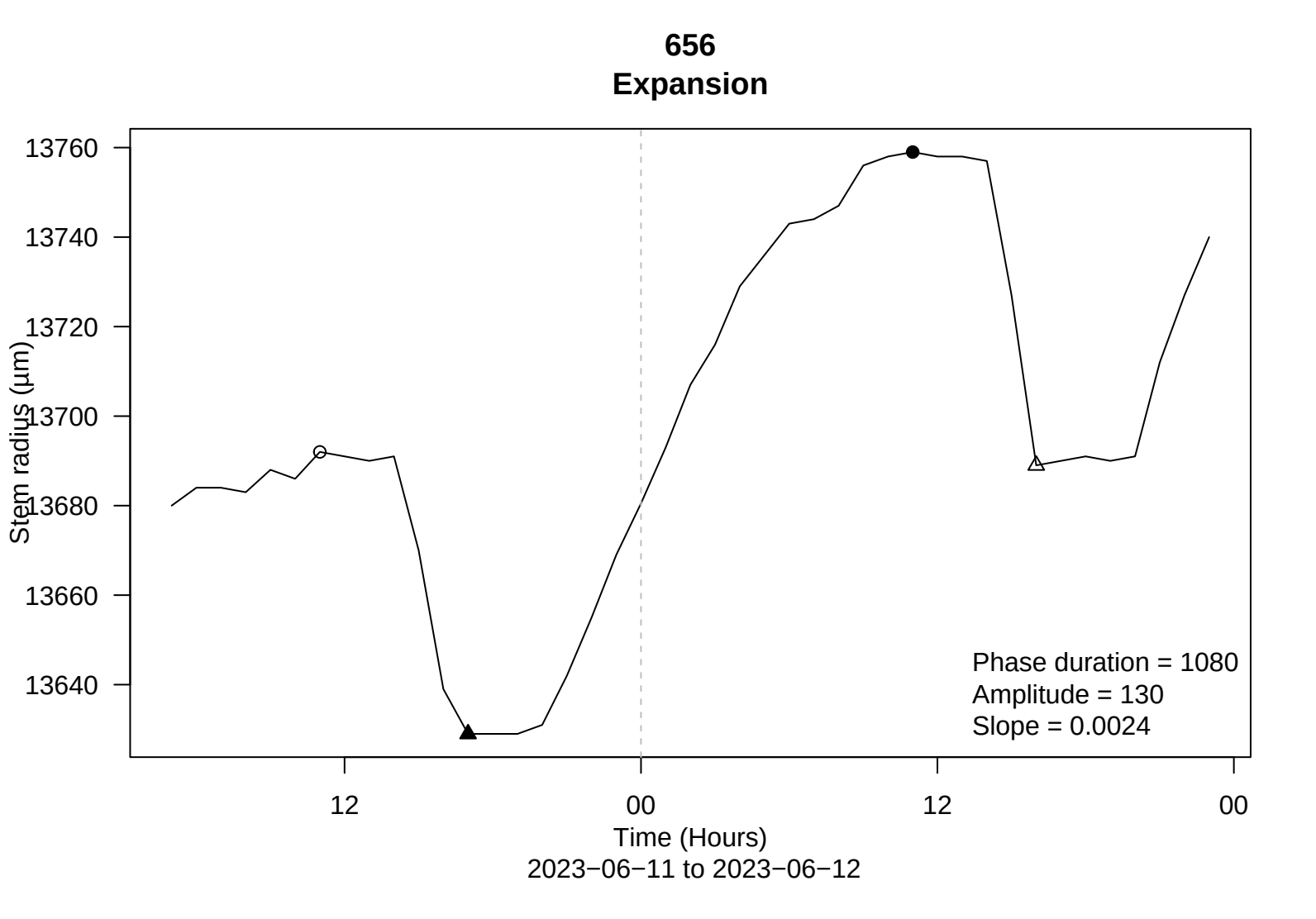

656
Shrinkage
13600
13550
13500
13450
13400
Stem radius (µm)
Phase duration = 420
Amplitude = −30
Slope = −0.001
00
06
12
18
00
Time (Hours)
2023−06−09 to 2023−06−09

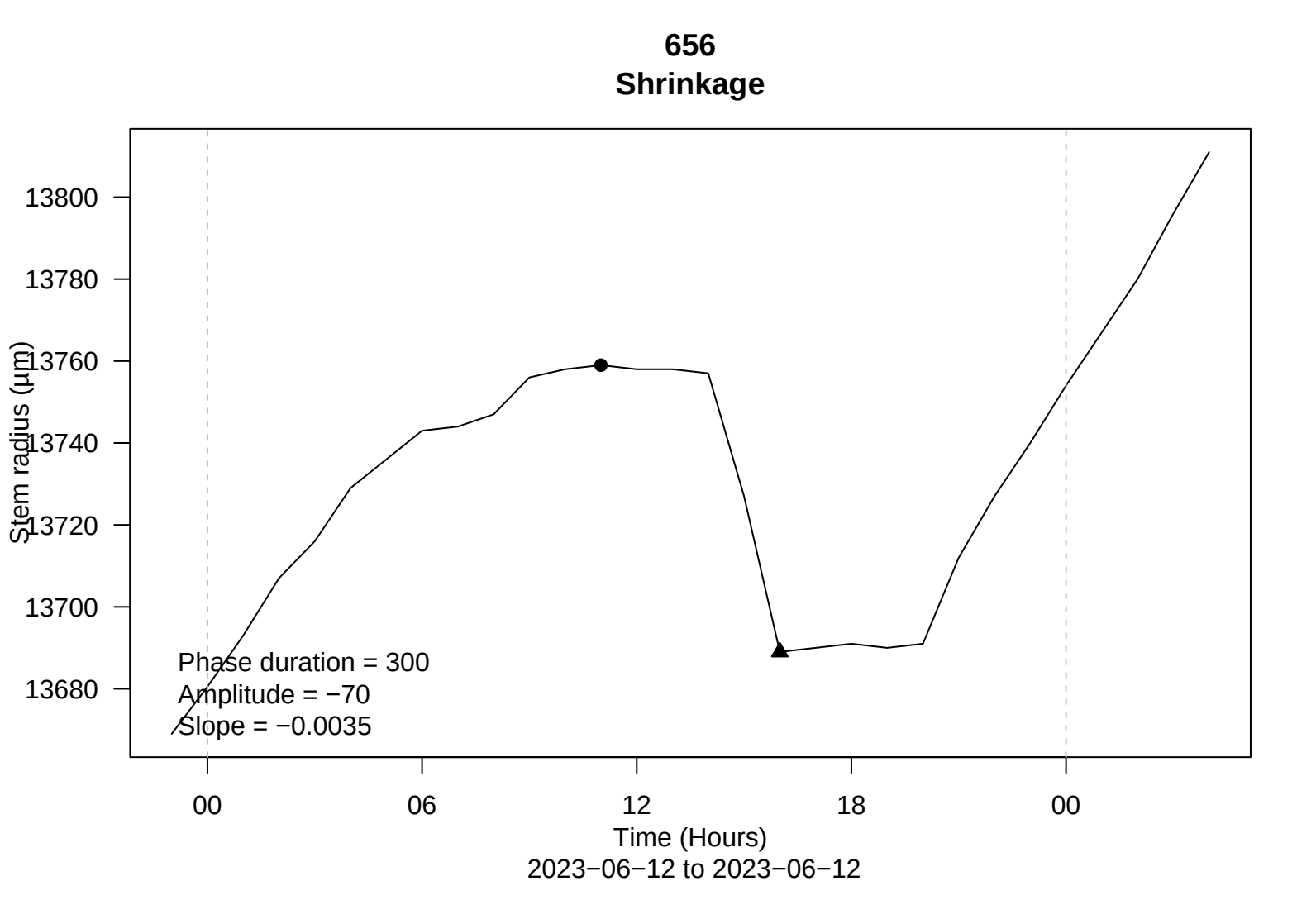

656
Expansion
13620
13600
13580
13560
13540
13520
13500
Stem radius (µm)
Phase duration = 840
Amplitude = 111
Slope = 0.0024
12
00
12
Time (Hours)
2023−06−09 to 2023−06−10

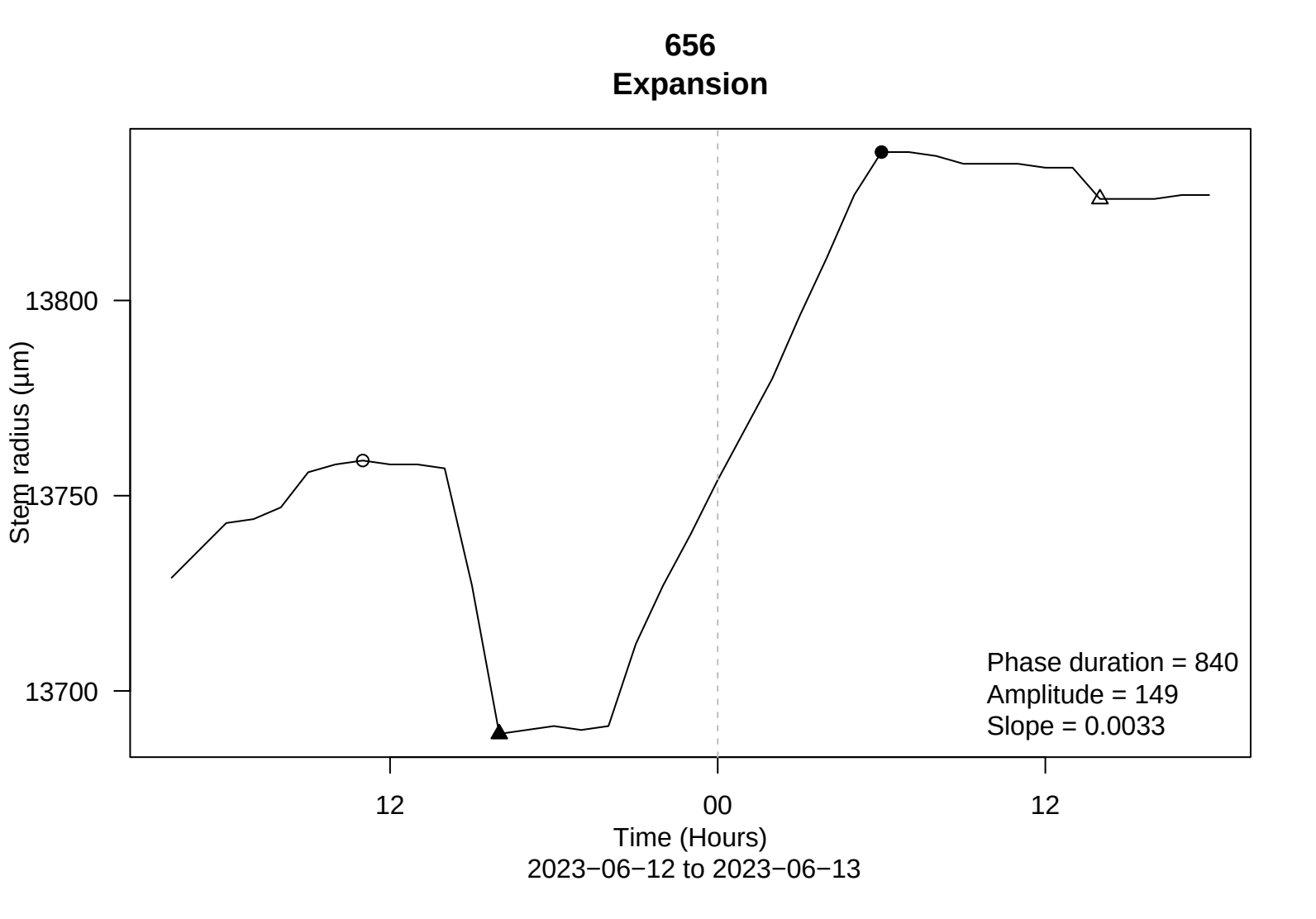

656
Shrinkage
13650
13600
13550
13500
Stem radius (µm)
Phase duration = 660
Amplitude = −40
Slope = −9e−04
00
12
00
Time (Hours)
2023−06−10 to 2023−06−10

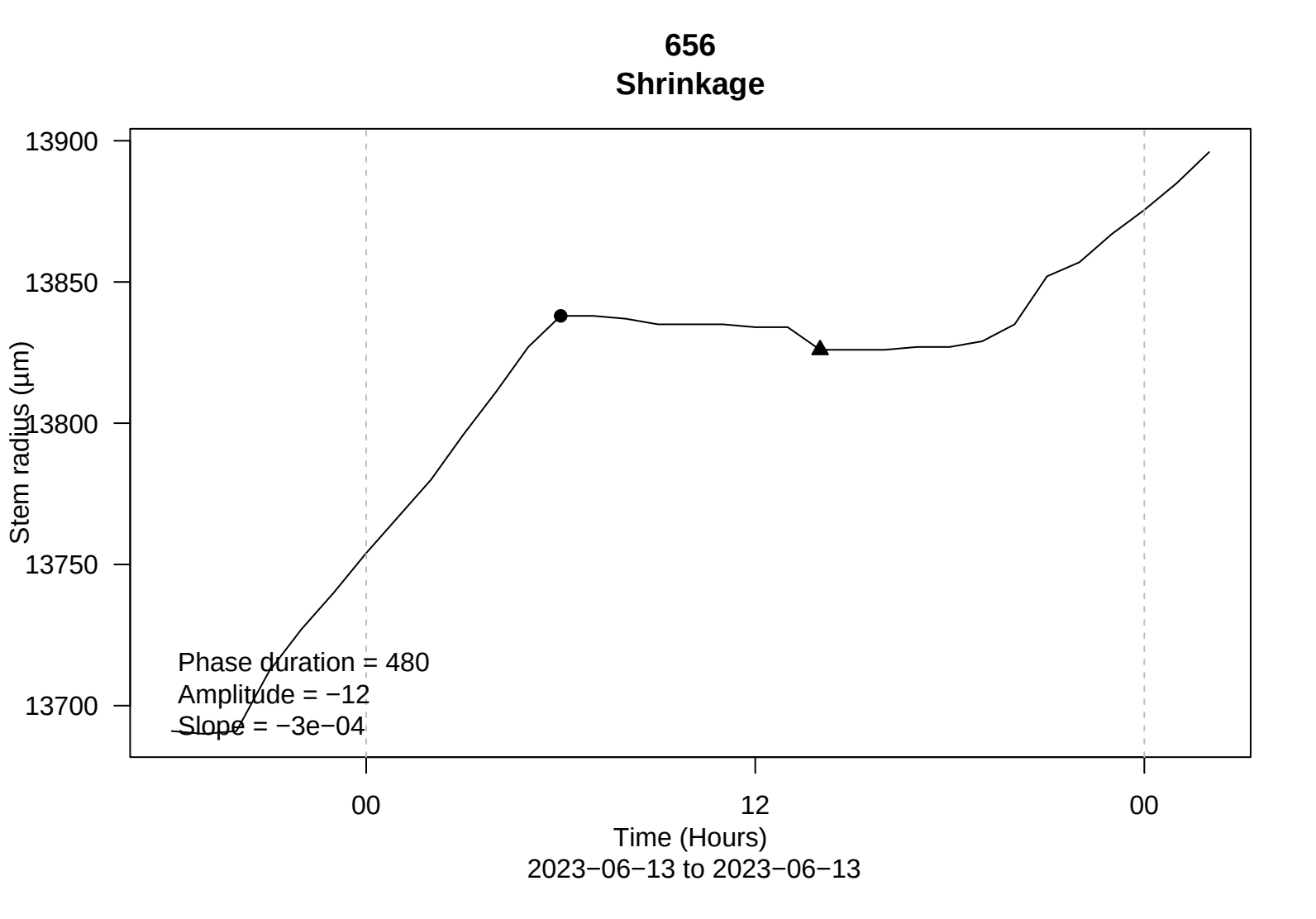

656
Expansion
13680
13660
13640
13620
13600
13580
Stem radius (µm)
Phase duration = 1080
Amplitude = 117
Slope = 0.0022
12
00
12
00
Time (Hours)
2023−06−10 to 2023−06−11

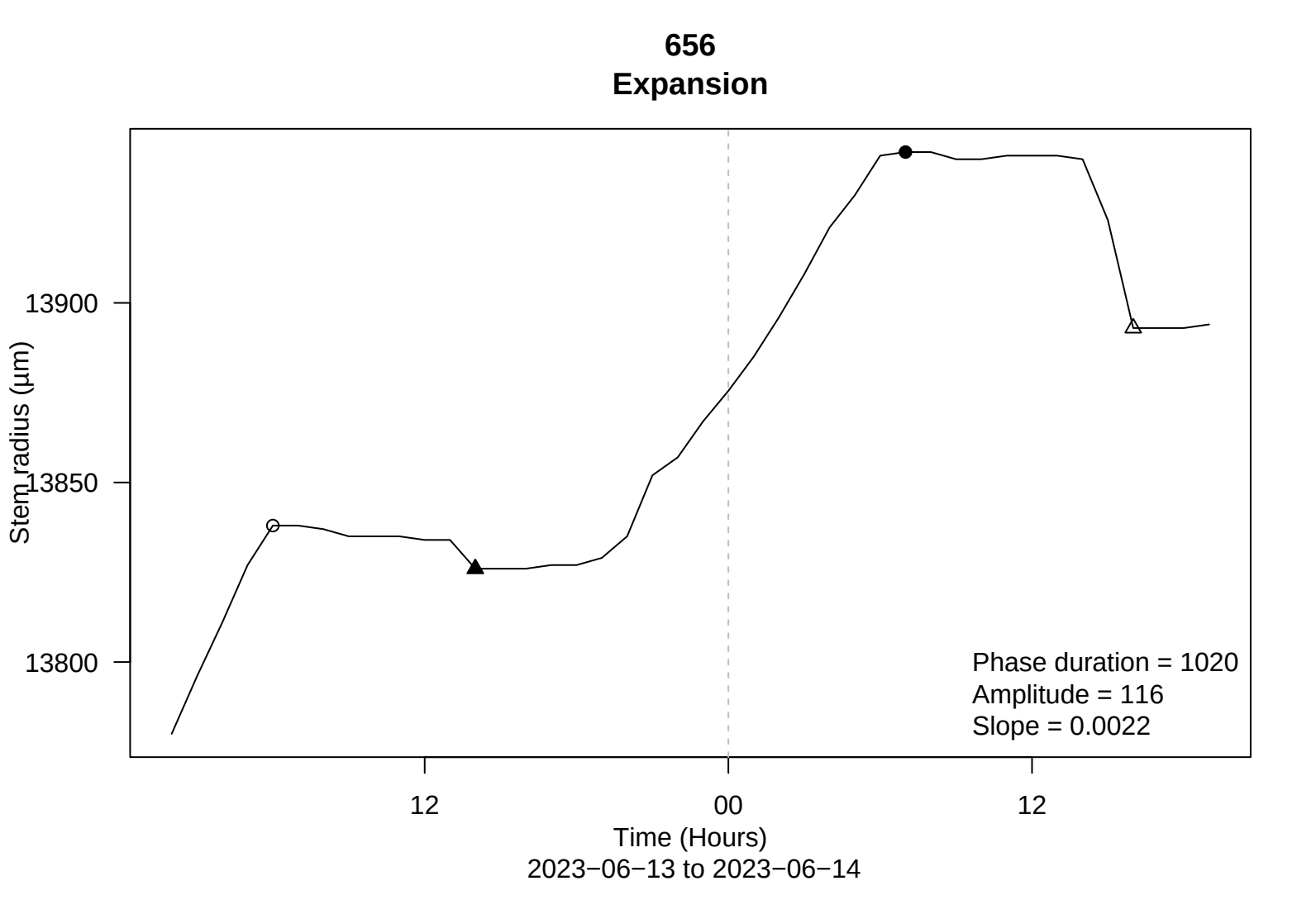

656
Shrinkage
13740
13720
13700
13680
13660
13640
13620
Stem radius (µm)
Phase duration = 360
Amplitude = −63
Slope = −0.0031
00
12
00
Time (Hours)
2023−06−11 to 2023−06−11

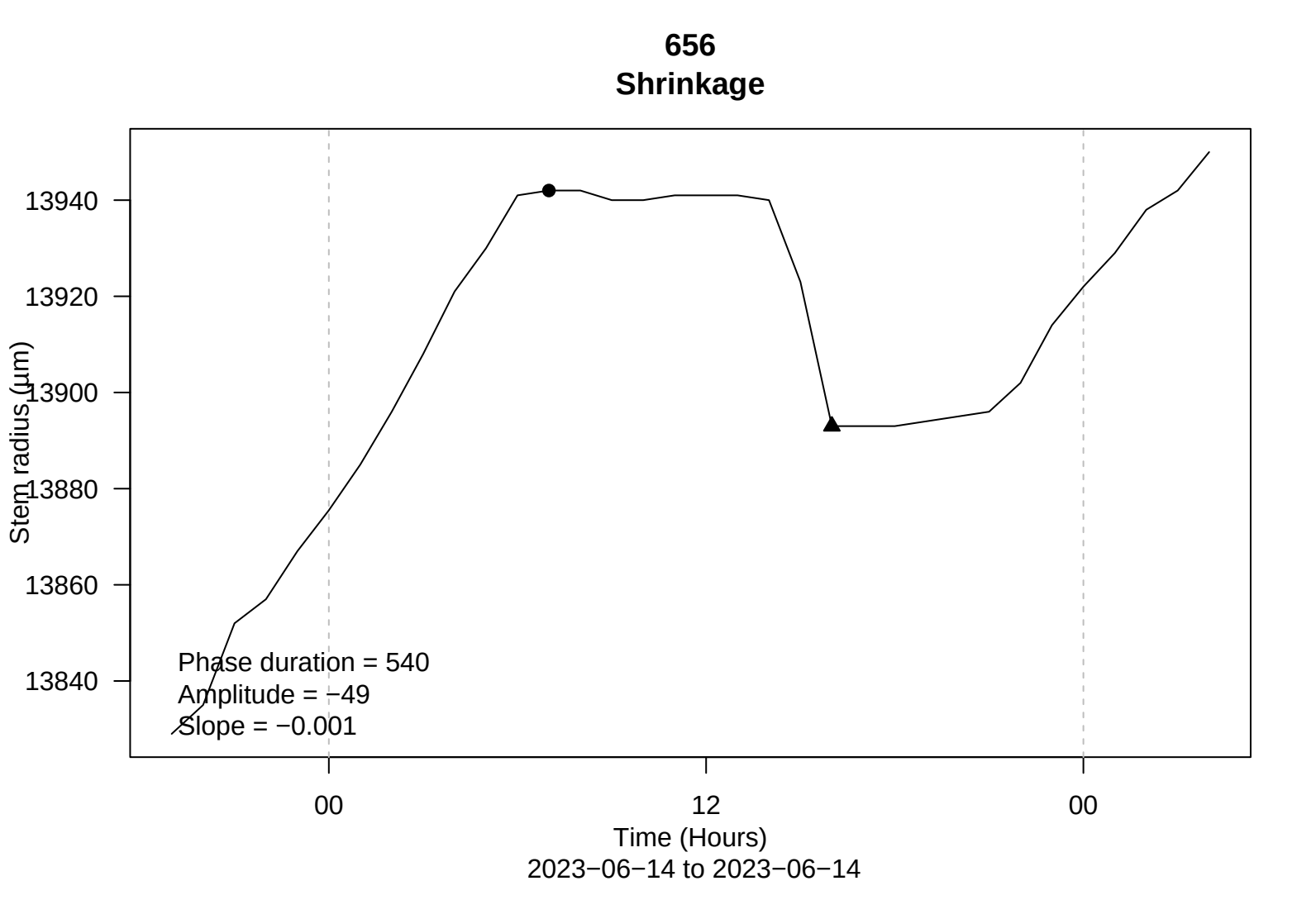

656
Expansion
13760
13740
13720
13700
13680
13660
13640
Stem radius (µm)
Phase duration = 1080
Amplitude = 130
Slope = 0.0024
12
00
12
00
Time (Hours)
2023−06−11 to 2023−06−12

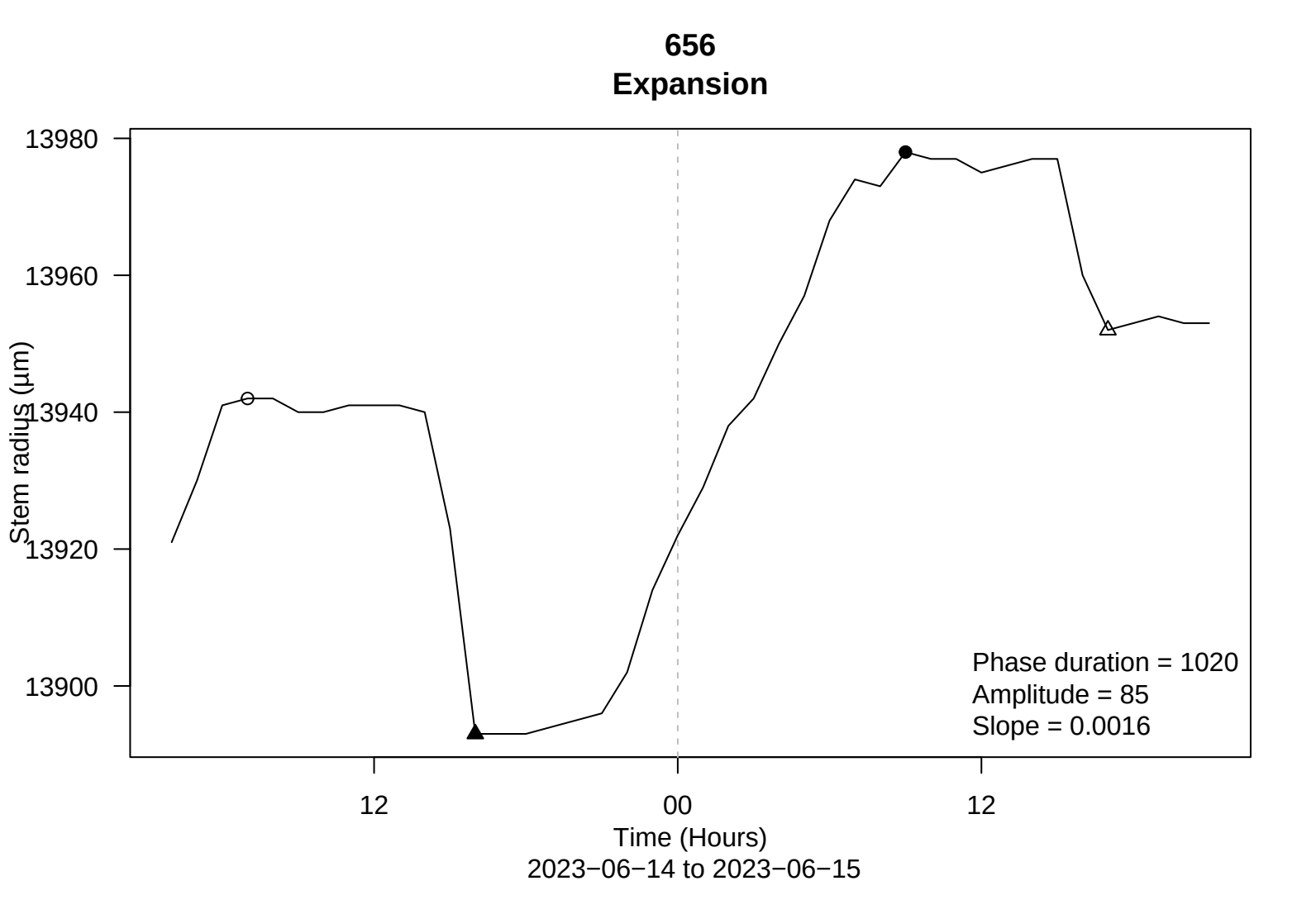

656
Shrinkage
13800
13780
13760
13740
13720
13700
13680
Stem radius (µm)
Phase duration = 300
Amplitude = −70
Slope = −0.0035
00
06
12
18
00
Time (Hours)
2023−06−12 to 2023−06−12

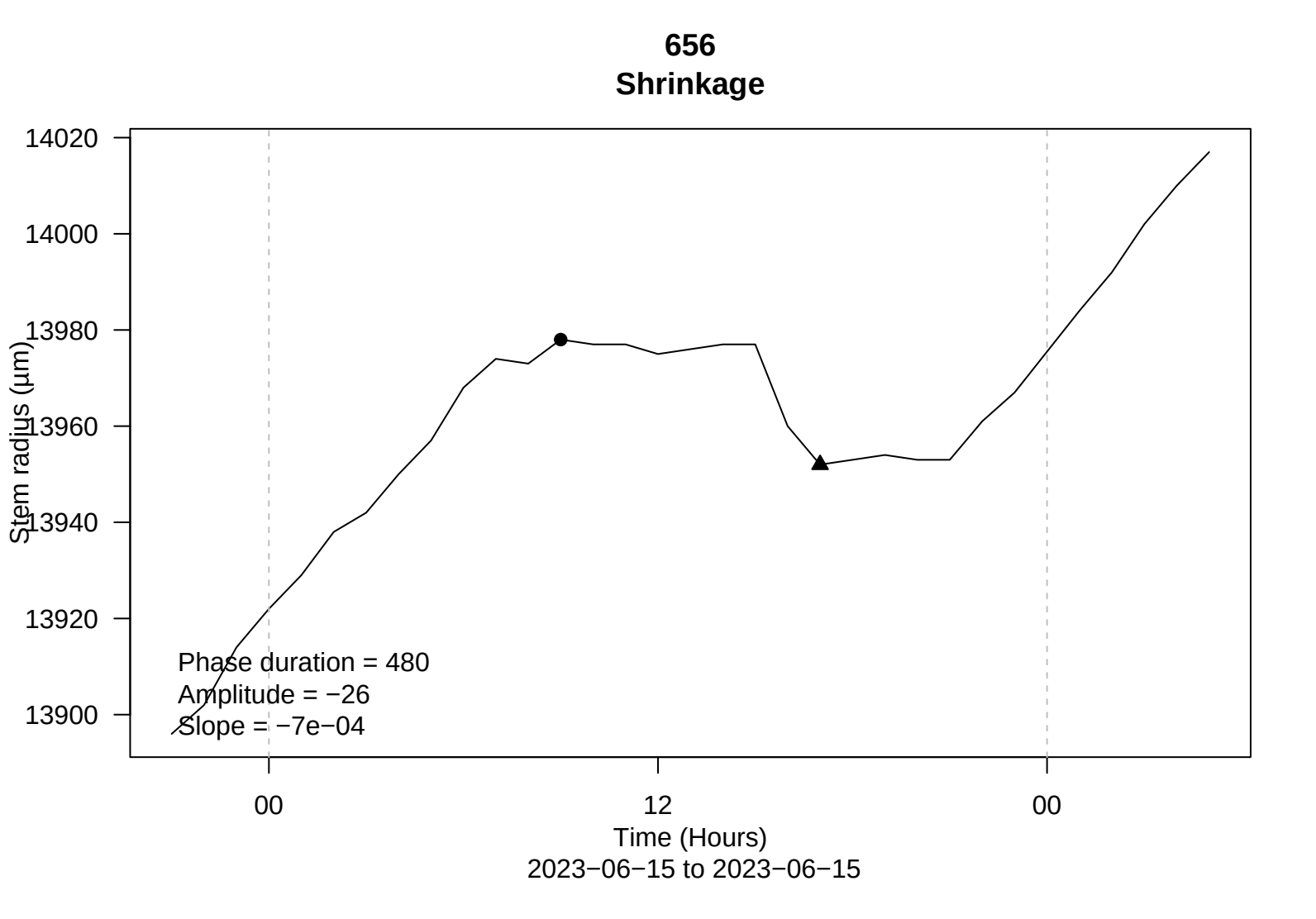

656
Expansion
13800
13750
13700
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−12 to 2023−06−13
Phase duration = 840
Amplitude = 149
Slope = 0.0033

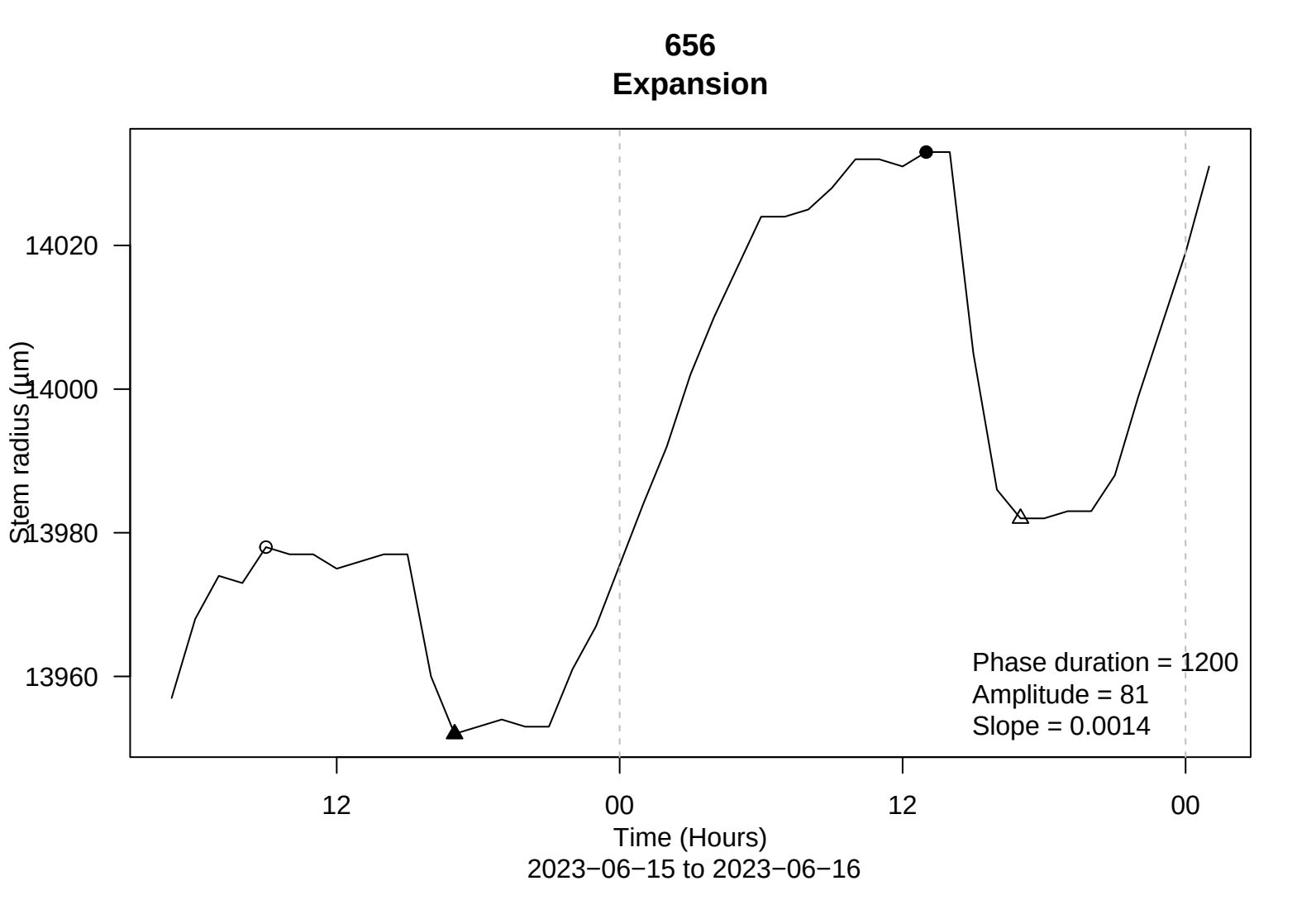

656
Shrinkage
13900
13850
13800
13750
13700
Stem radius (µm)
Phase duration = 480
Amplitude = −12
Slope = −3e−04
00
12
00
Time (Hours)
2023−06−13 to 2023−06−13

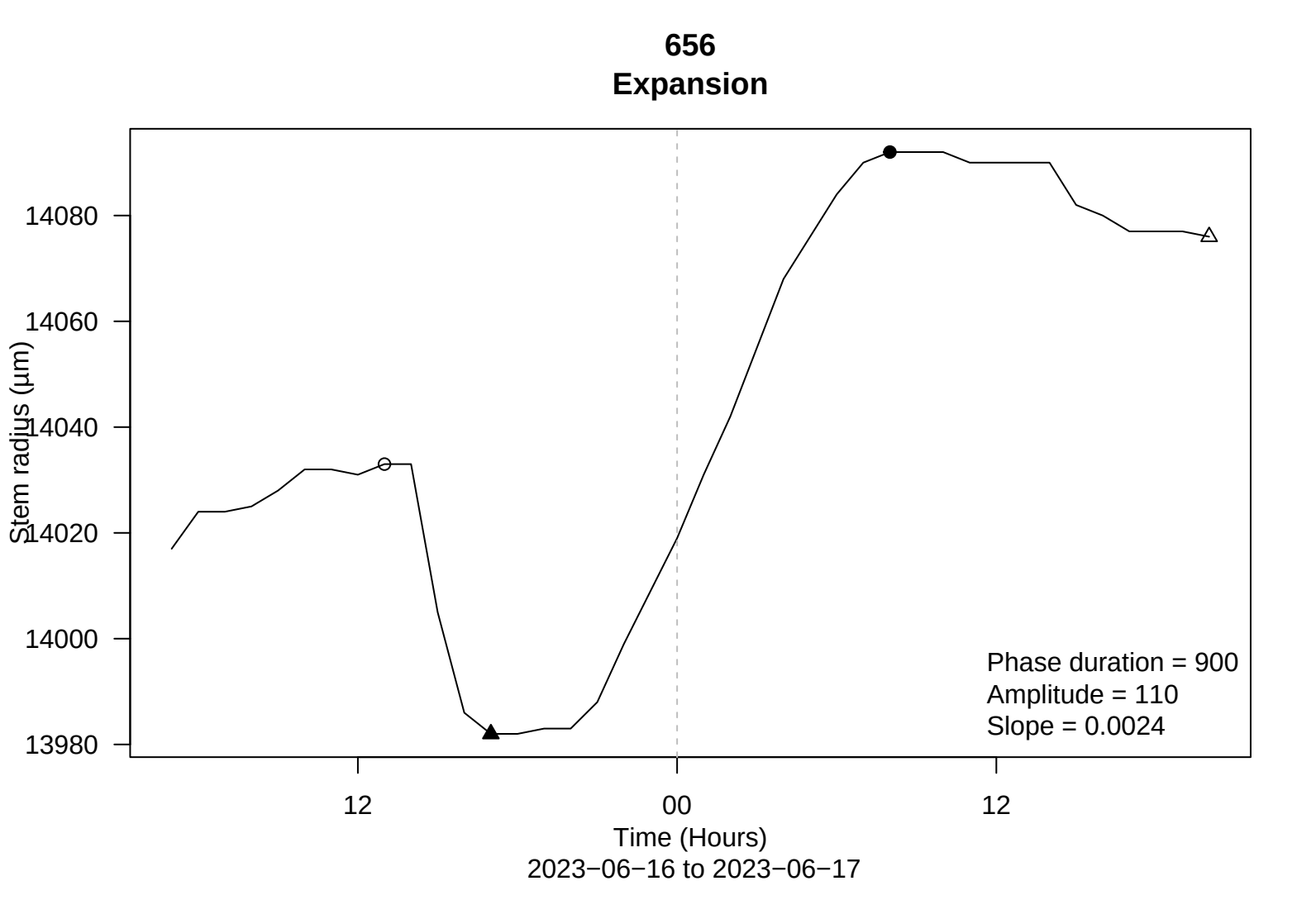

656
Expansion
13900
13850
13800
Stem radius (µm)
Phase duration = 1020
Amplitude = 116
Slope = 0.0022
12
00
12
Time (Hours)
2023−06−13 to 2023−06−14

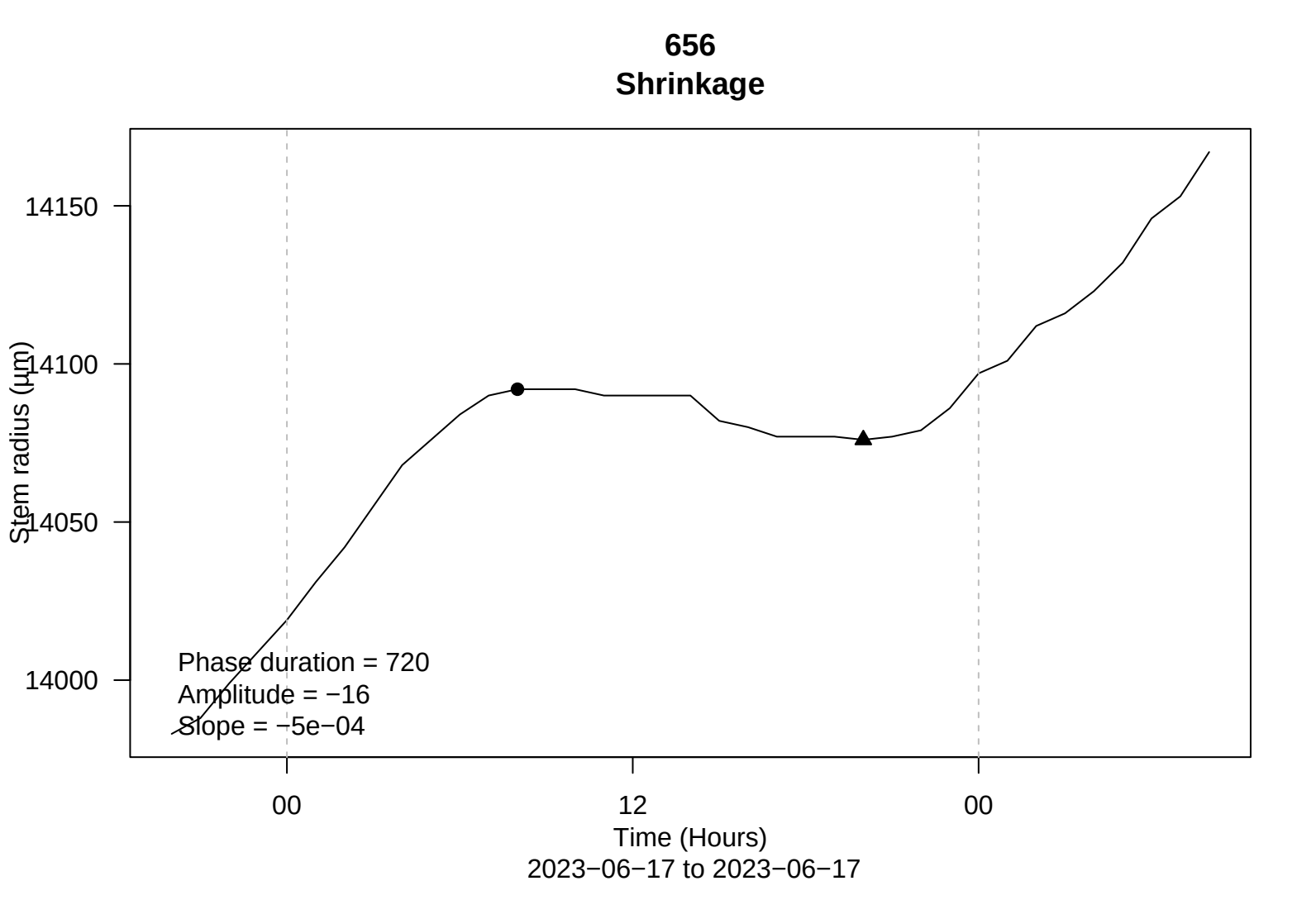

656
Shrinkage
13940
13920
13900
13880
13860
13840
Stem radius (µm)
Phase duration = 540
Amplitude = −49
Slope = −0.001
00
12
00
Time (Hours)
2023−06−14 to 2023−06−14

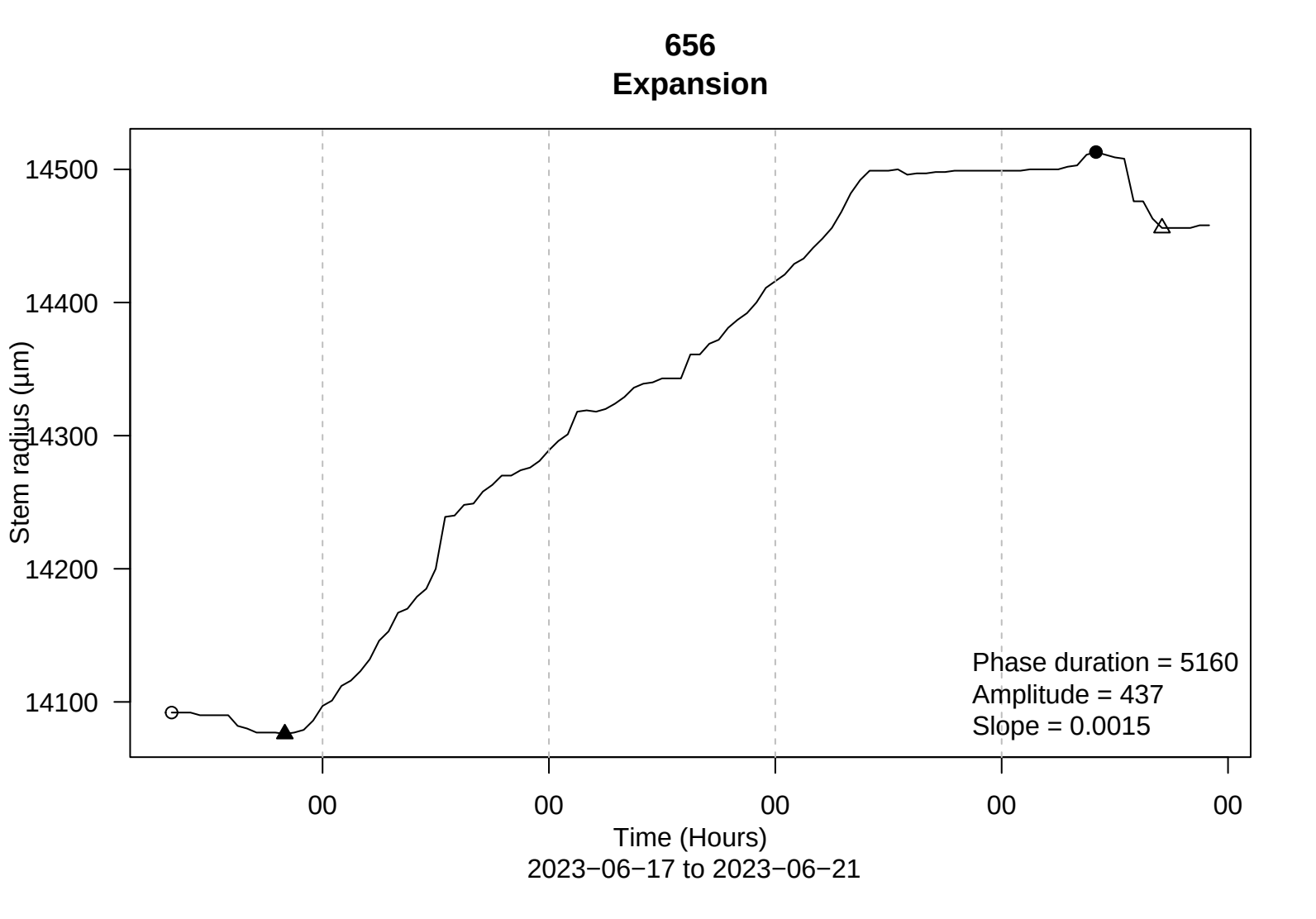

656
Expansion
13980
13960
13940
13920
13900
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−14 to 2023−06−15
Phase duration = 1020
Amplitude = 85
Slope = 0.0016

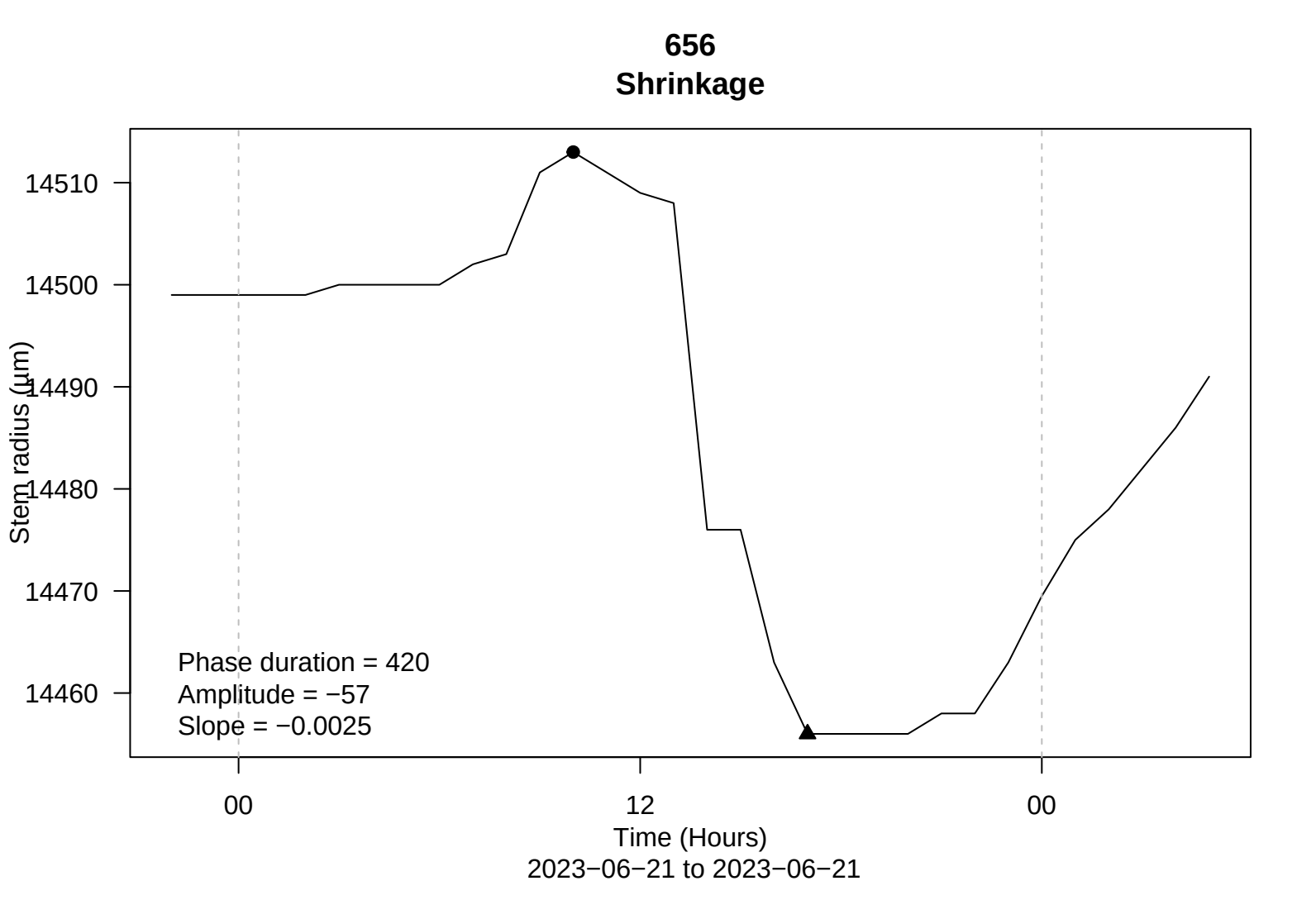

656
Shrinkage
14020
14000
13980
13960
13940
13920
13900
Stem radius (µm)
Phase duration = 480
Amplitude = −26
Slope = −7e−04
00
12
00
Time (Hours)
2023−06−15 to 2023−06−15

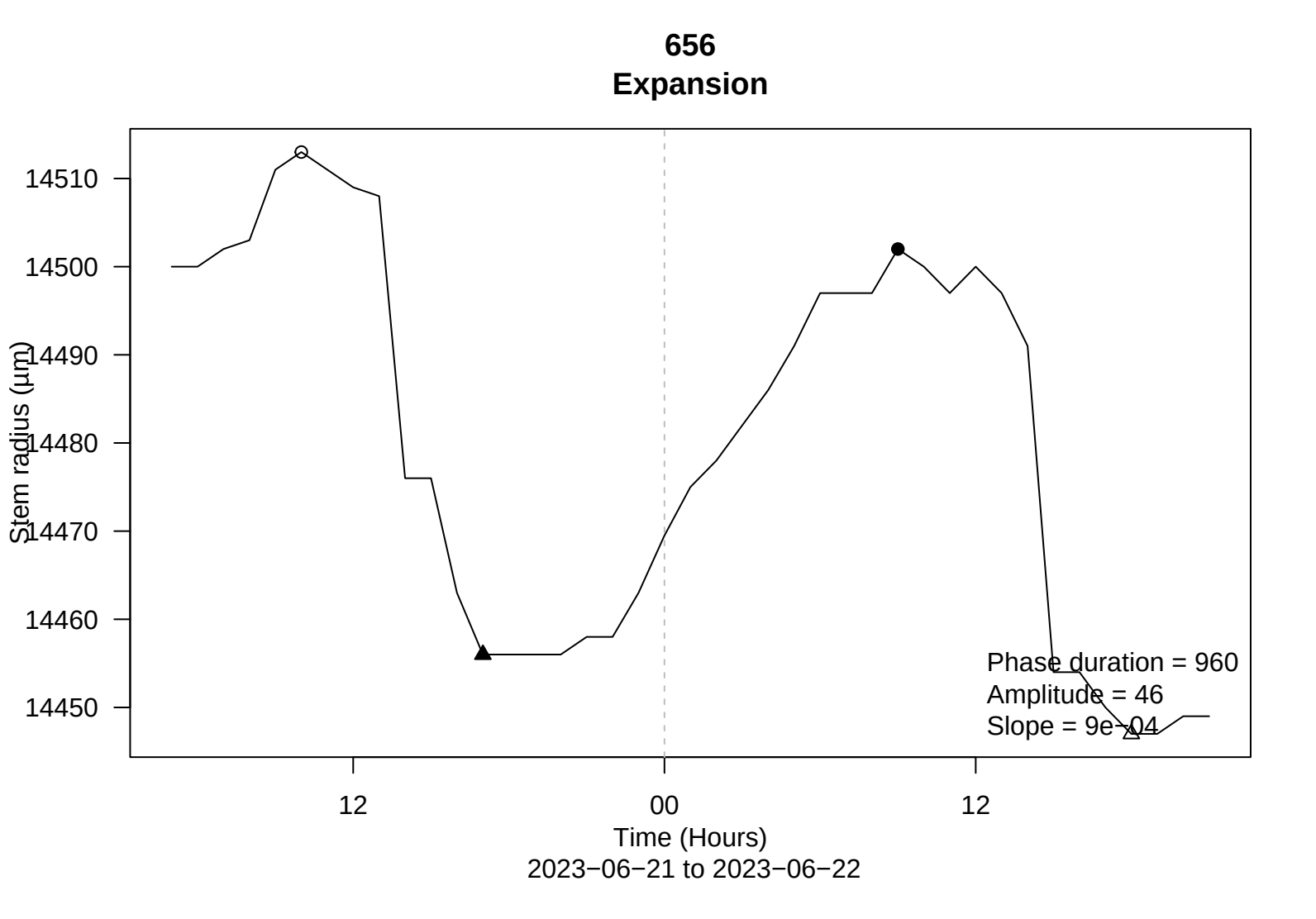

656
Expansion
14020
14000
13980
13960
Stem radius (µm)
Phase duration = 1200
Amplitude = 81
Slope = 0.0014
12
00
12
00
Time (Hours)
2023−06−15 to 2023−06−16

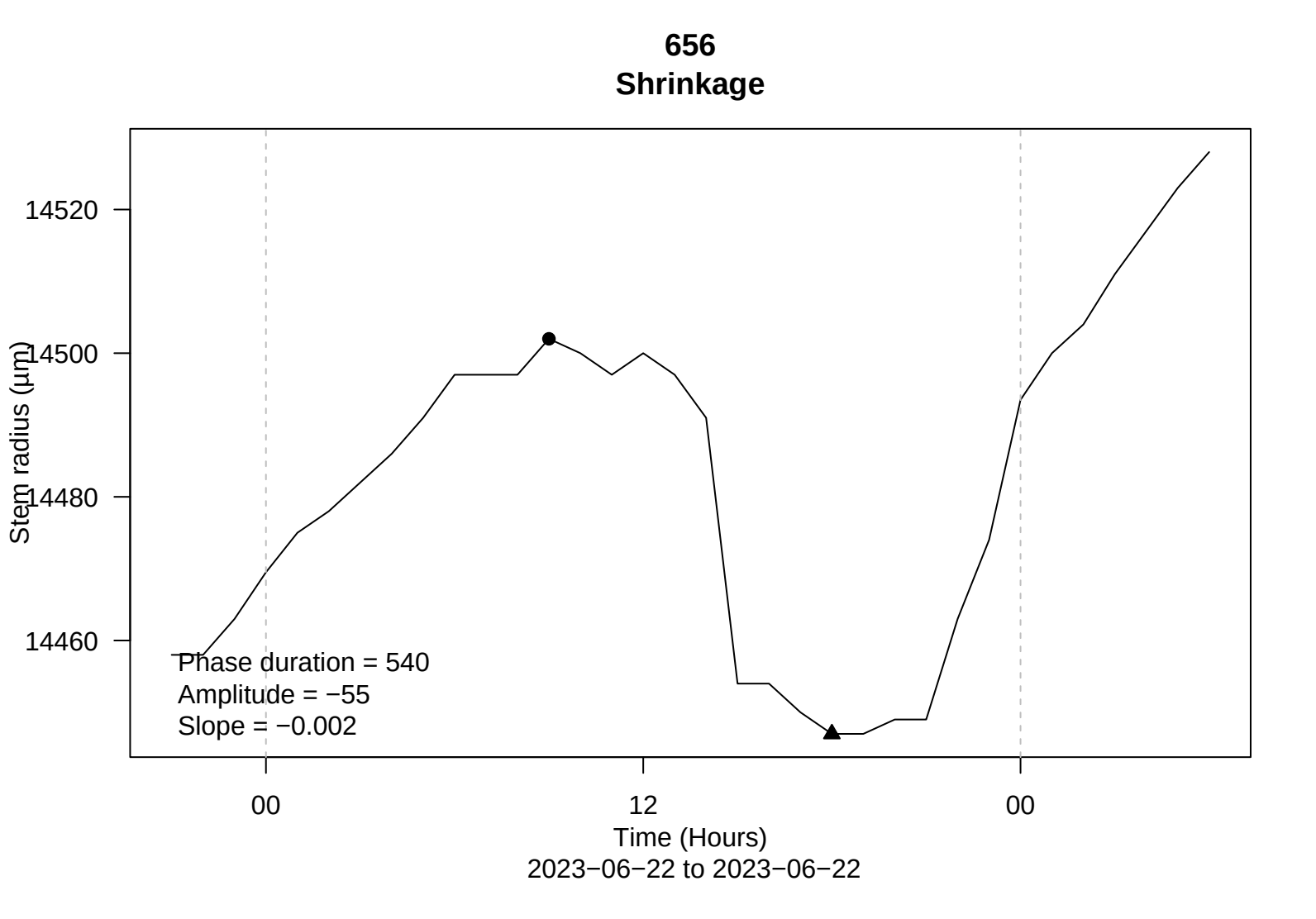

656
Expansion
14080
14060
14040
14020
14000
13980
Stem radius (µm)
Phase duration = 900
Amplitude = 110
Slope = 0.0024
12
00
12
Time (Hours)
2023−06−16 to 2023−06−17

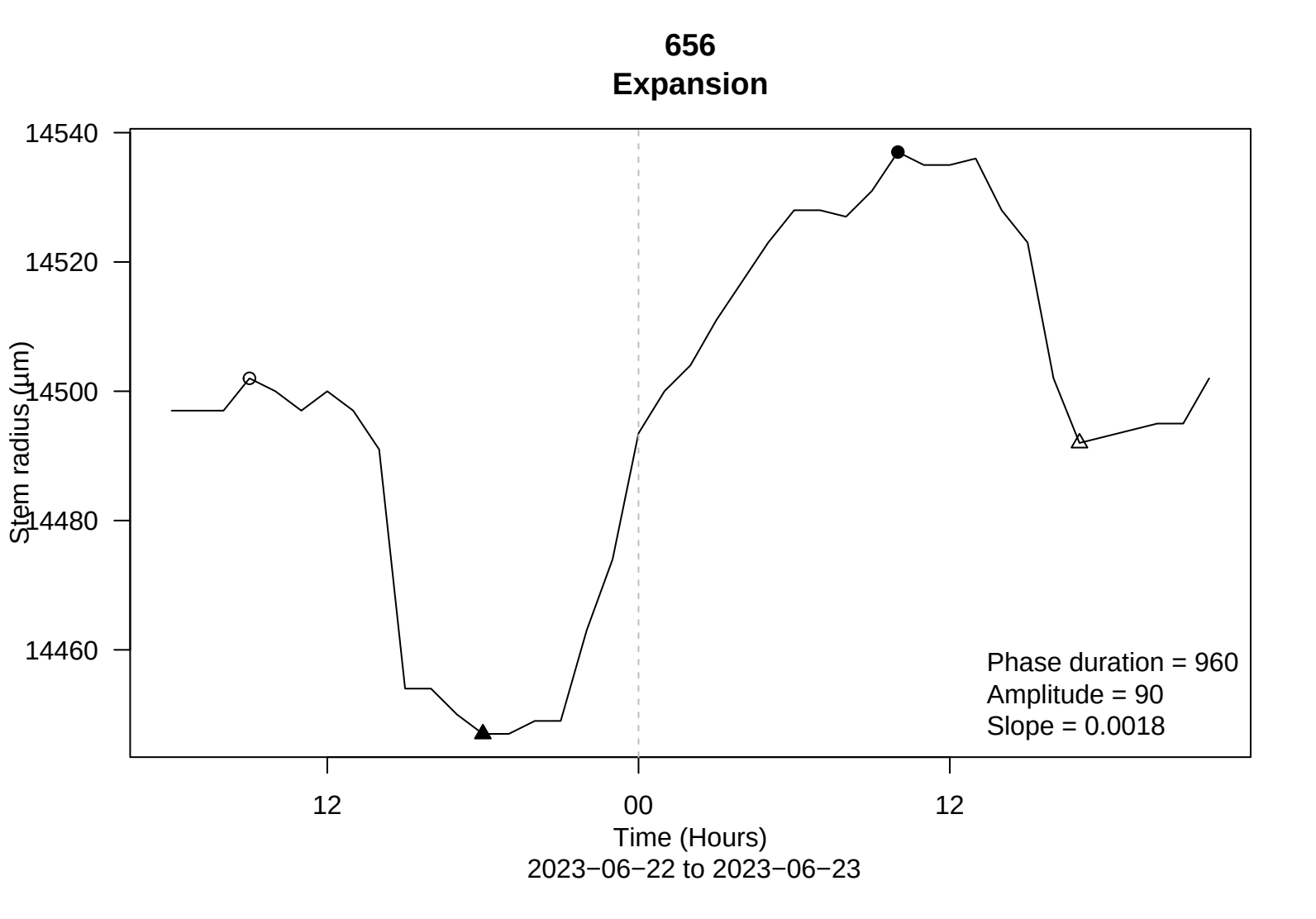

656
Shrinkage
14150
14100
14050
14000
Stem radius (µm)
Phase duration = 720
Amplitude = −16
Slope = −5e−04
00
12
00
Time (Hours)
2023−06−17 to 2023−06−17

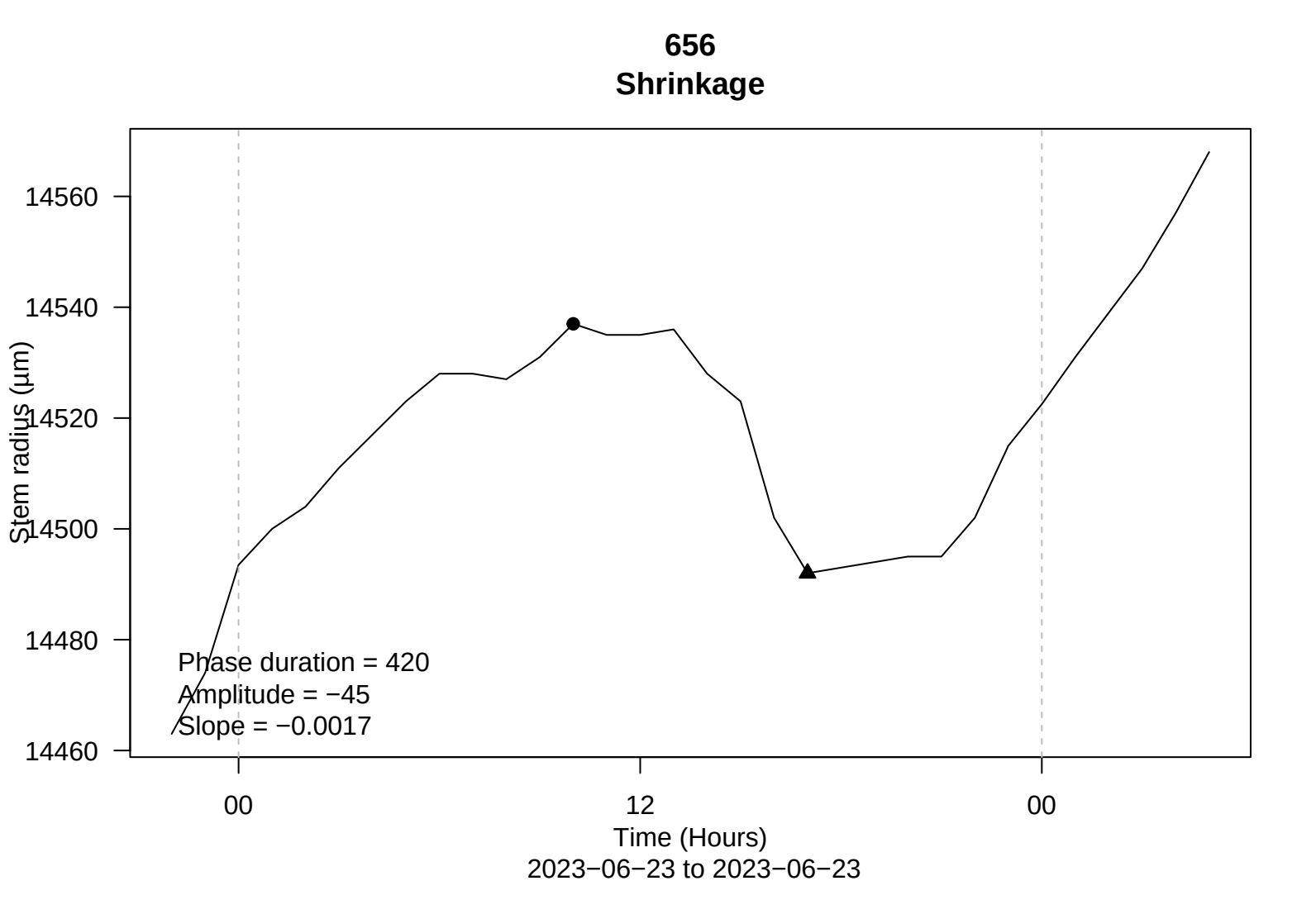

656
Expansion
14500
14400
14300
14200
14100
Stem radius (µm)
00
00
00
00
00
Time (Hours)
2023−06−17 to 2023−06−21
Phase duration = 5160
Amplitude = 437
Slope = 0.0015

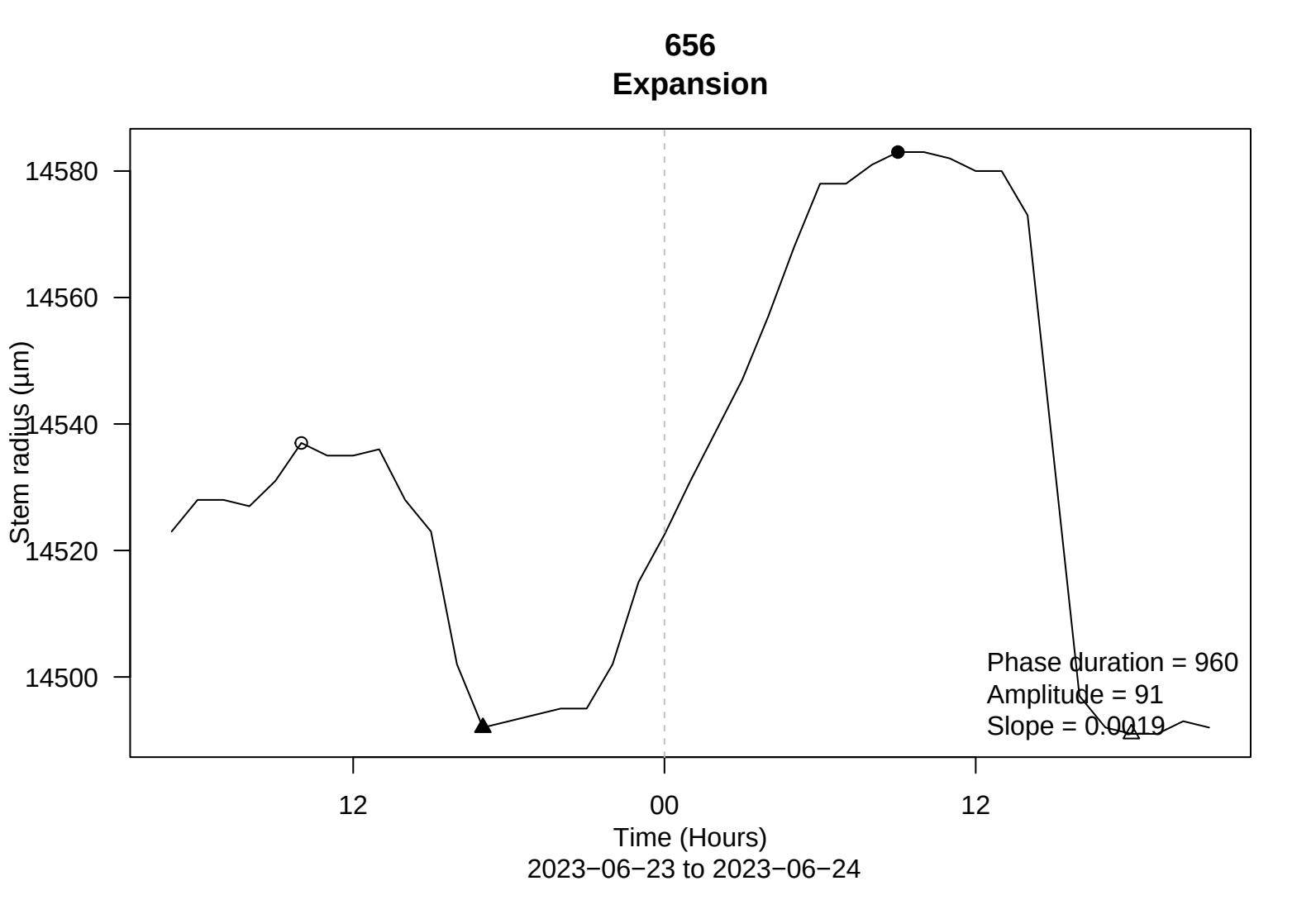

656
Shrinkage
14510
14500
14490
14480
14470
14460
Stem radius (µm)
Phase duration = 420
Amplitude = −57
Slope = −0.0025
00
12
00
Time (Hours)
2023−06−21 to 2023−06−21

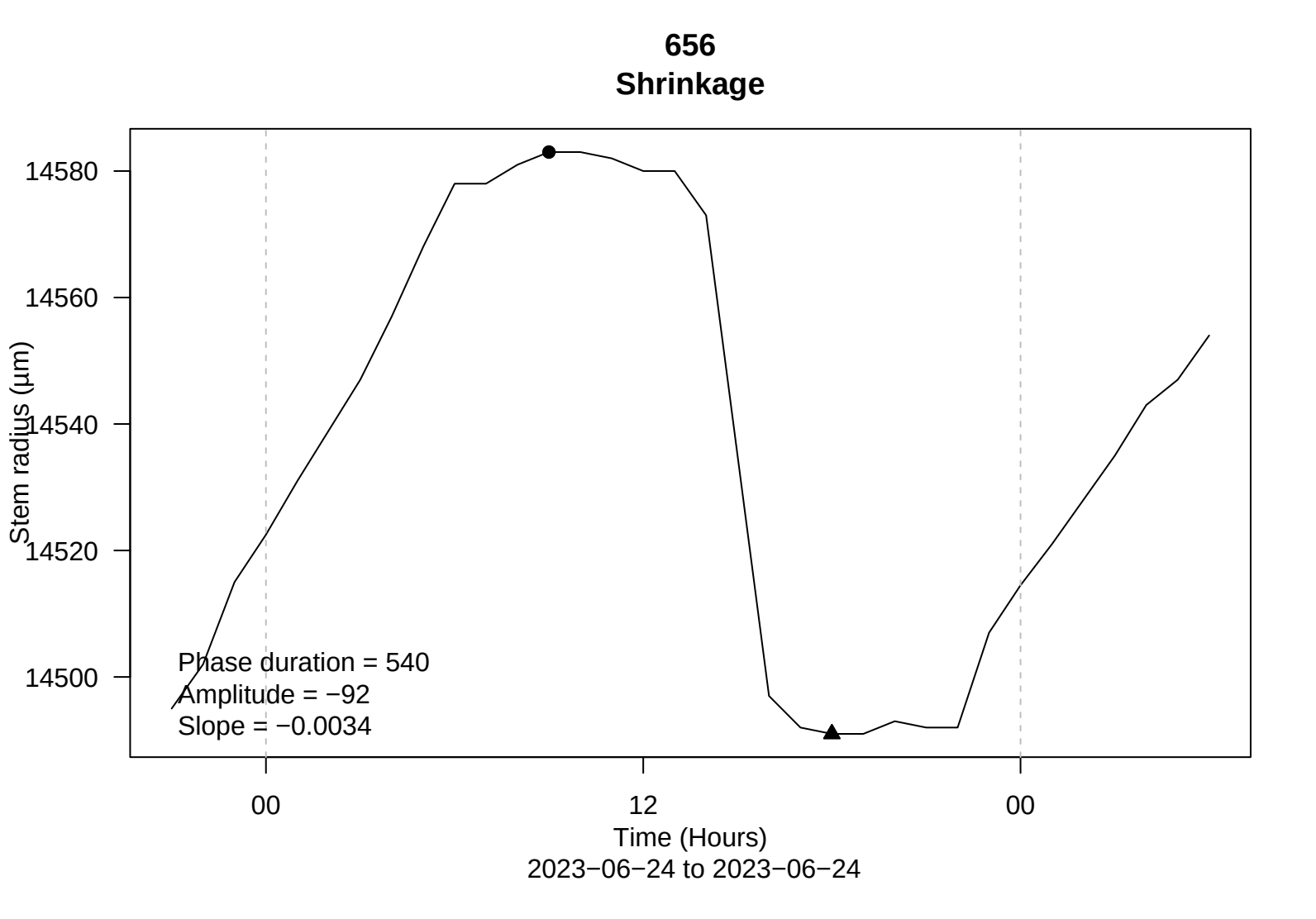

656
Expansion
14510
14500
14490
14480
14470
14460
14450
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−21 to 2023−06−22
Phase duration = 960
Amplitude = 46
Slope = 9e−04

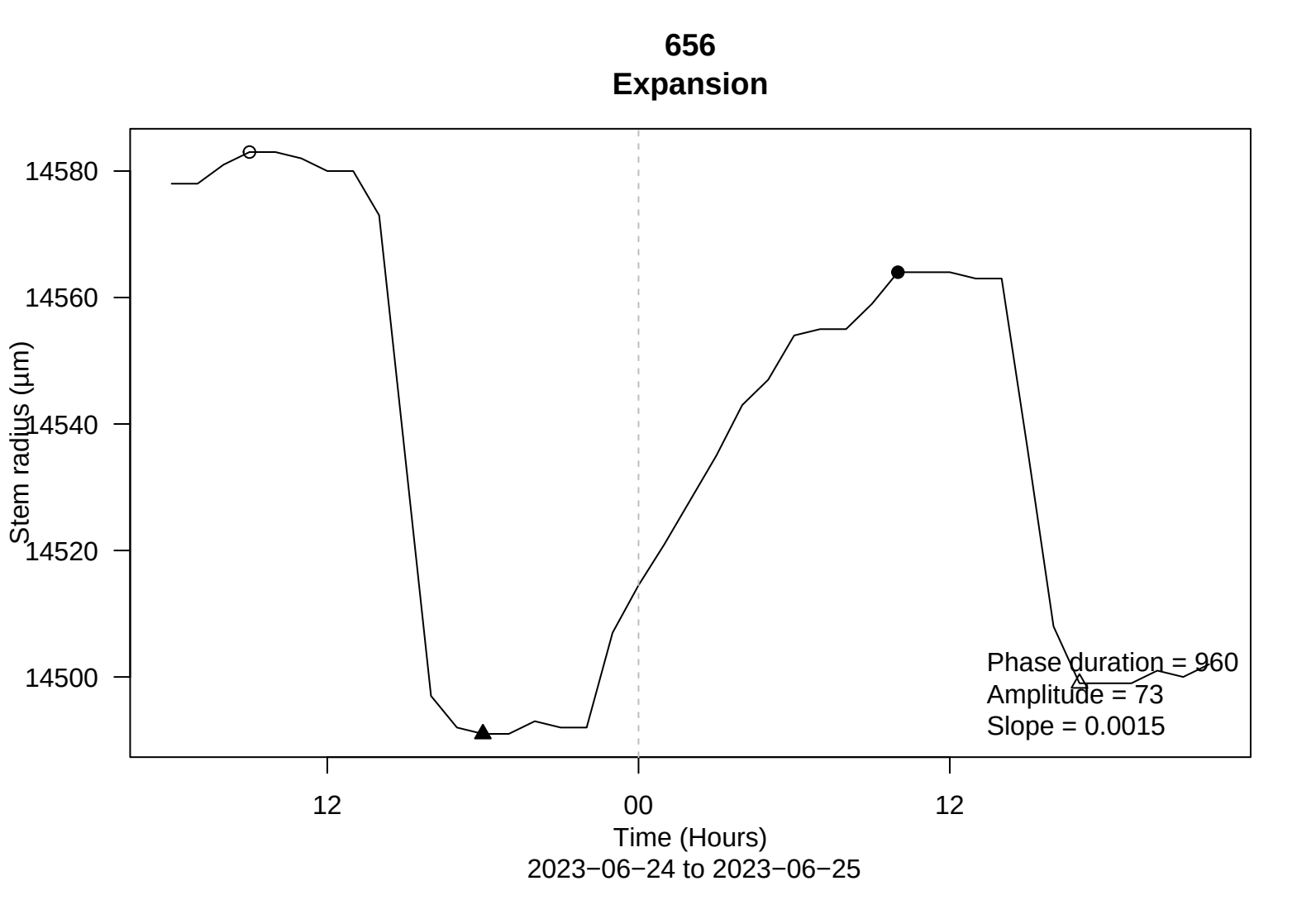

656
Shrinkage
14520
14500
14480
14460
Stem radius (µm)
Phase duration = 540
Amplitude = −55
Slope = −0.002
00
12
00
Time (Hours)
2023−06−22 to 2023−06−22

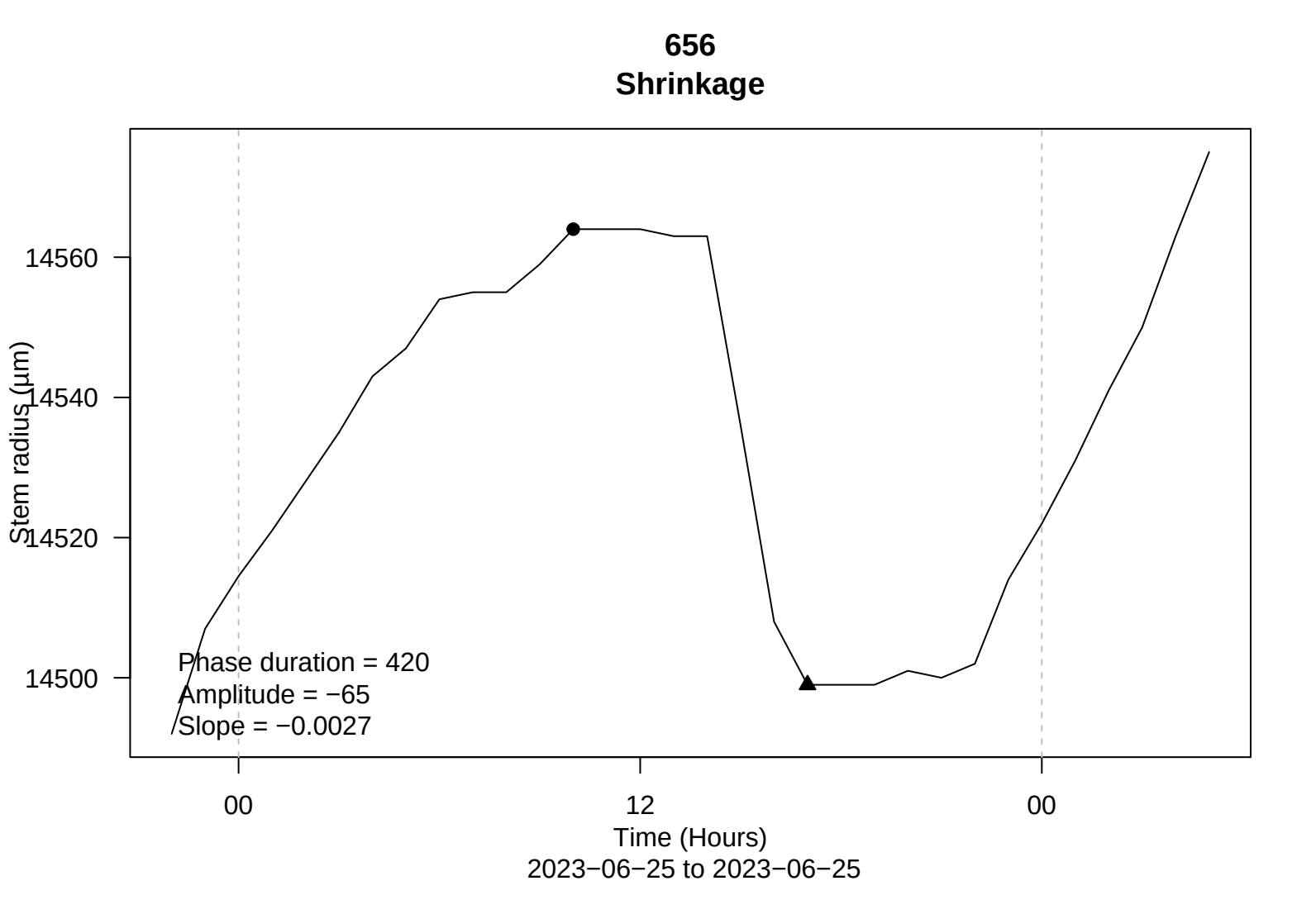

656
Expansion
14540
14520
14500
14480
14460
Stem radius (µm)
Phase duration = 960
Amplitude = 90
Slope = 0.0018
12
00
12
Time (Hours)
2023−06−22 to 2023−06−23

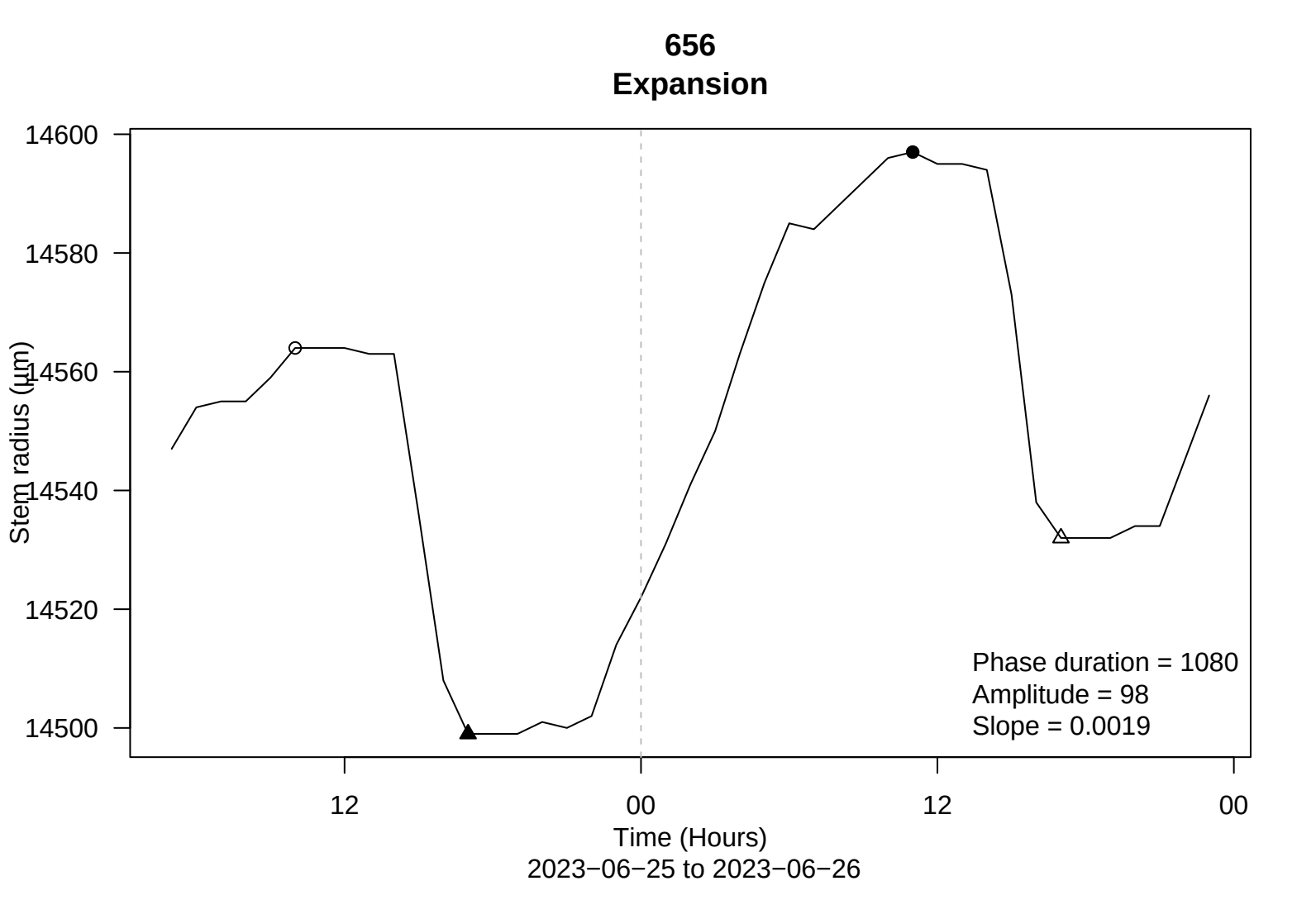

656
Shrinkage
14560
14540
14520
14500
14480
14460
Stem radius (µm)
Phase duration = 420
Amplitude = −45
Slope = −0.0017
00
12
00
Time (Hours)
2023−06−23 to 2023−06−23

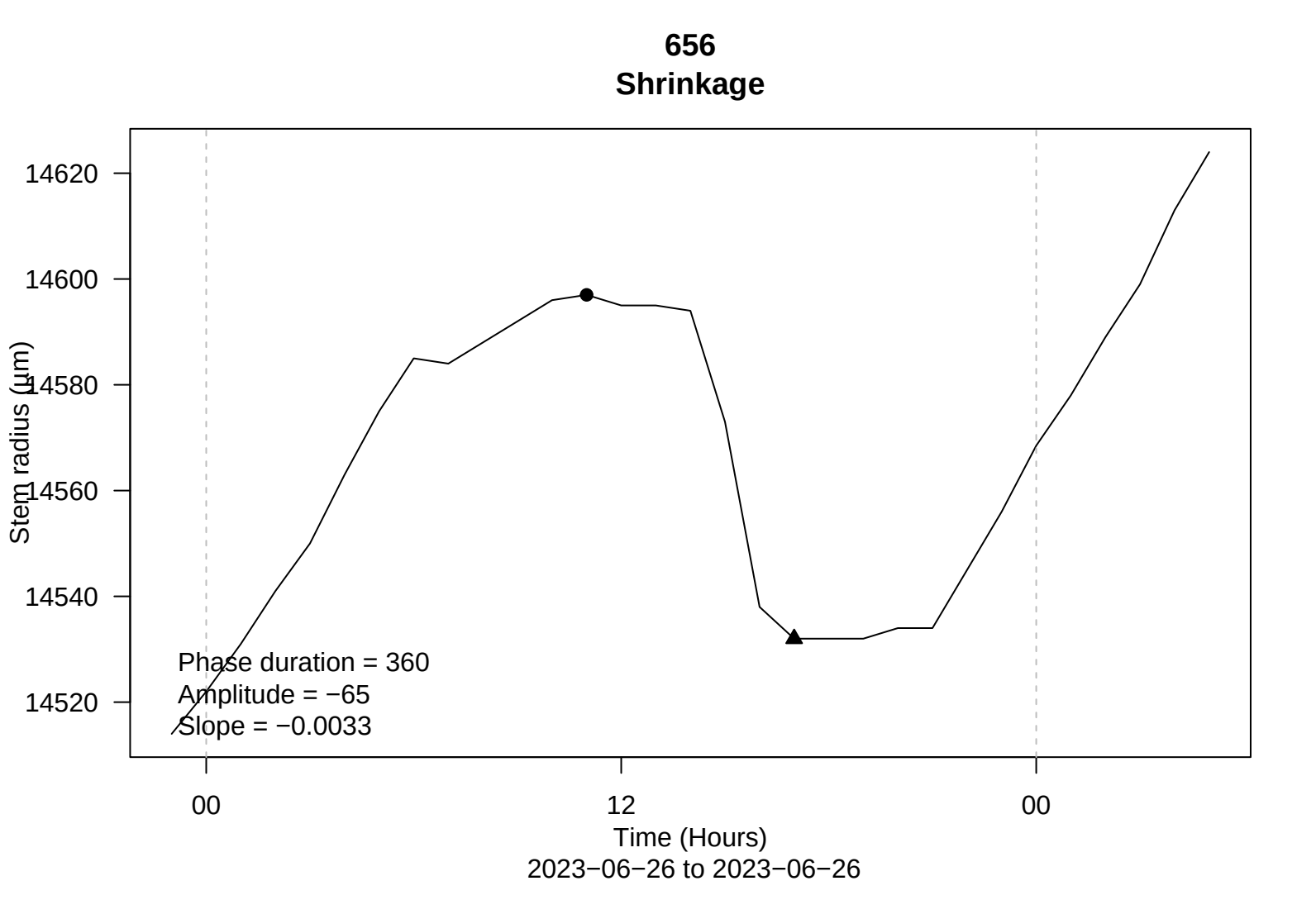

656
Expansion
14580
14560
14540
14520
14500
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−23 to 2023−06−24
Phase duration = 960
Amplitude = 91
Slope = 0.0019

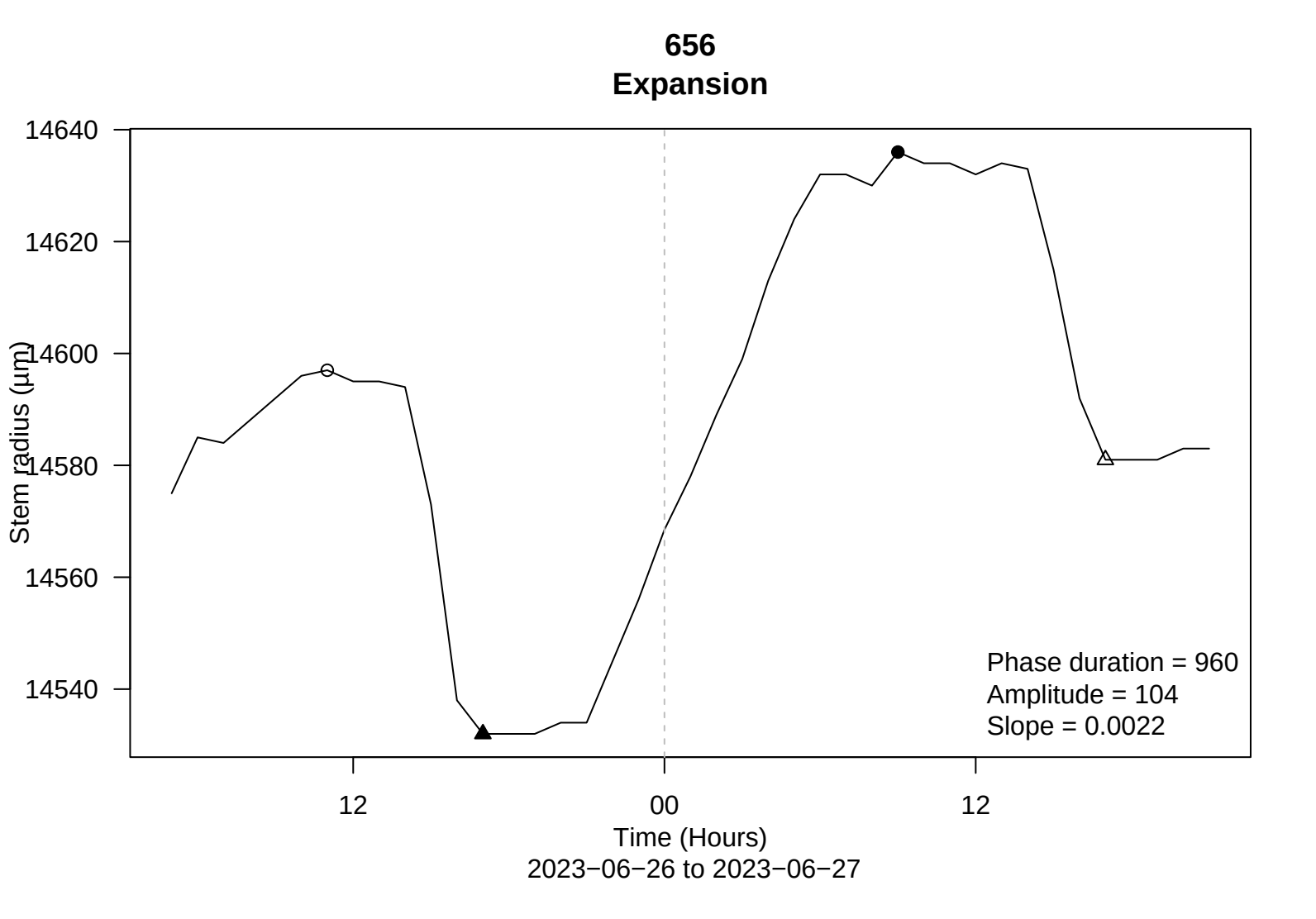

656
Shrinkage
14580
14560
14540
14520
14500
Stem radius (µm)
Phase duration = 540
Amplitude = −92
Slope = −0.0034
00
12
00
Time (Hours)
2023−06−24 to 2023−06−24

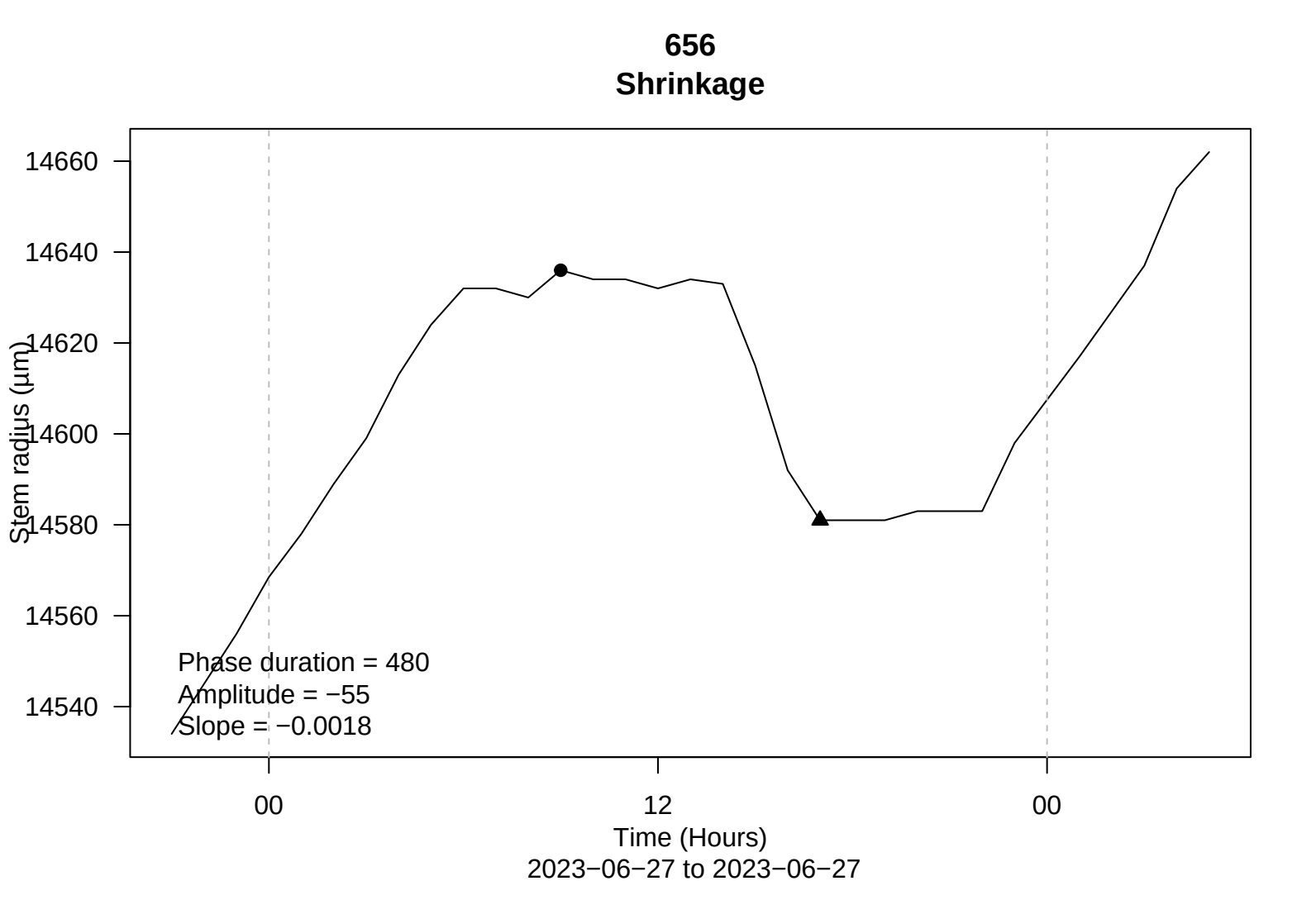

656
Expansion
14580
14560
14540
14520
14500
Stem radius (µm)
Phase duration = 960
Amplitude = 73
Slope = 0.0015
12
00
12
Time (Hours)
2023−06−24 to 2023−06−25

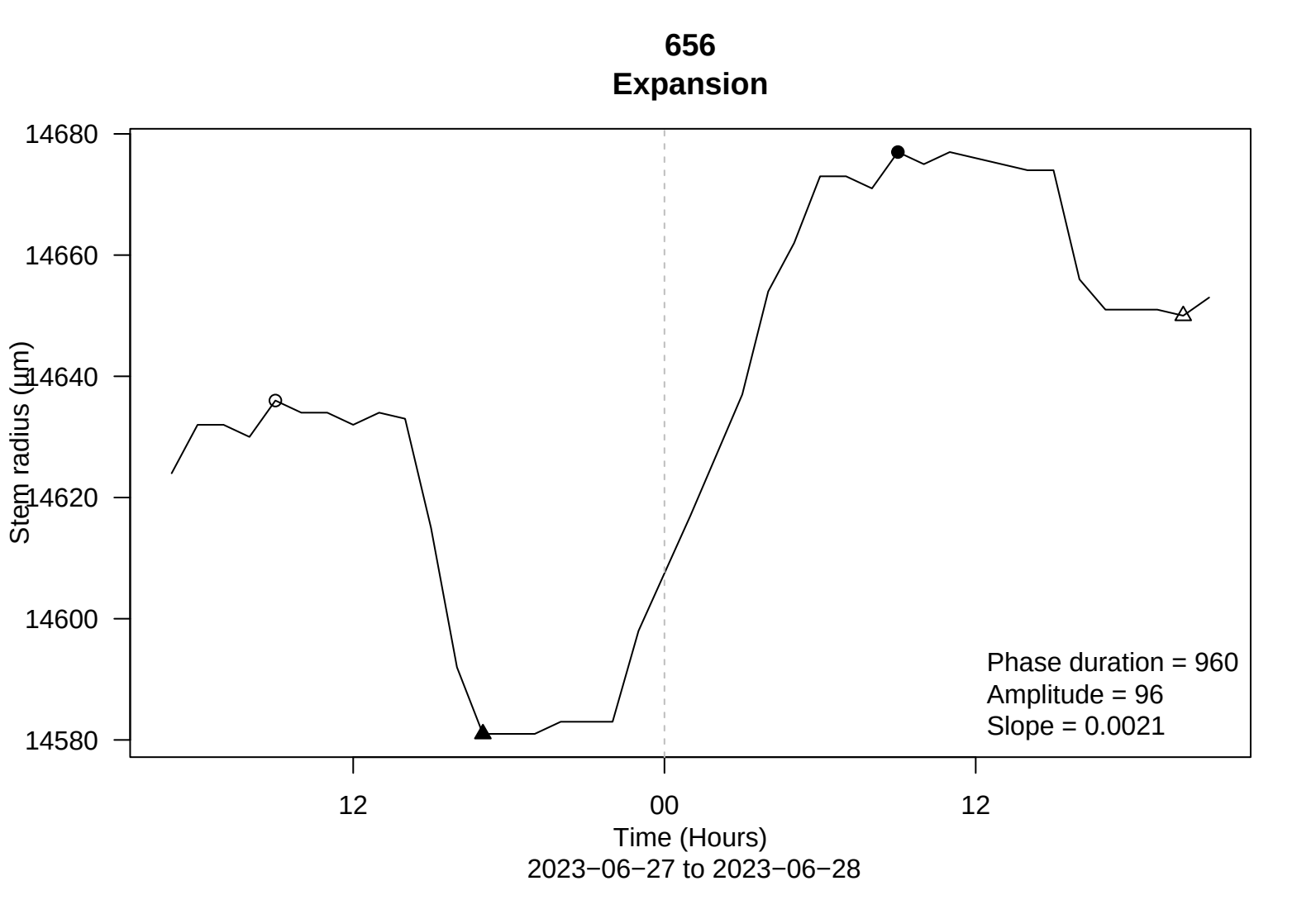

656
Shrinkage
14560
14540
14520
14500
Stem radius (µm)
Phase duration = 420
Amplitude = −65
Slope = −0.0027
00
12
00
Time (Hours)
2023−06−25 to 2023−06−25

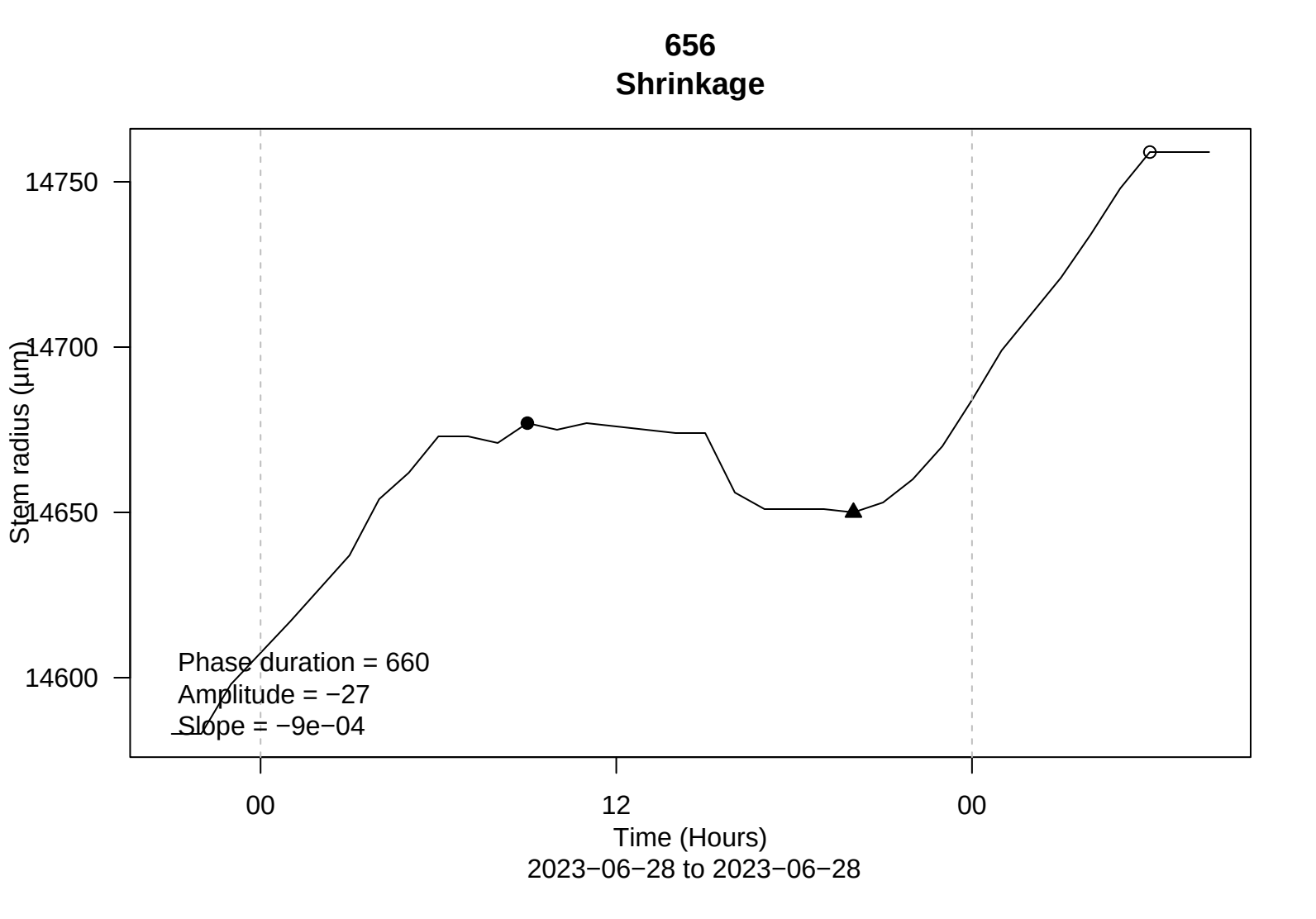

656
Expansion
14600
14580
14560
14540
14520
14500
Stem radius (µm)
Phase duration = 1080
Amplitude = 98
Slope = 0.0019
12
00
12
00
Time (Hours)
2023−06−25 to 2023−06−26

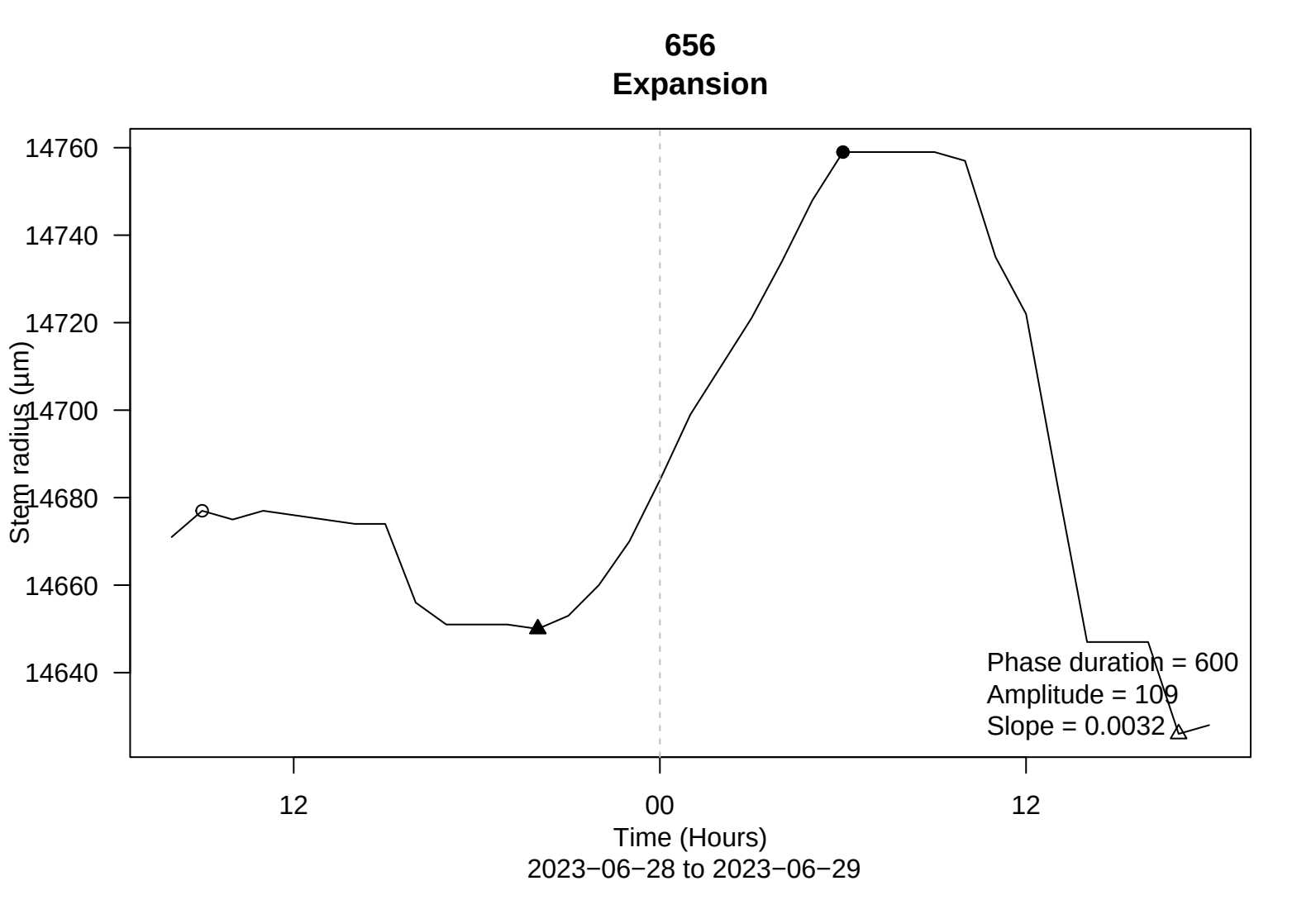

656
Shrinkage
14620
14600
14580
14560
14540
14520
Stem radius (µm)
Phase duration = 360
Amplitude = −65
Slope = −0.0033
00
12
00
Time (Hours)
2023−06−26 to 2023−06−26

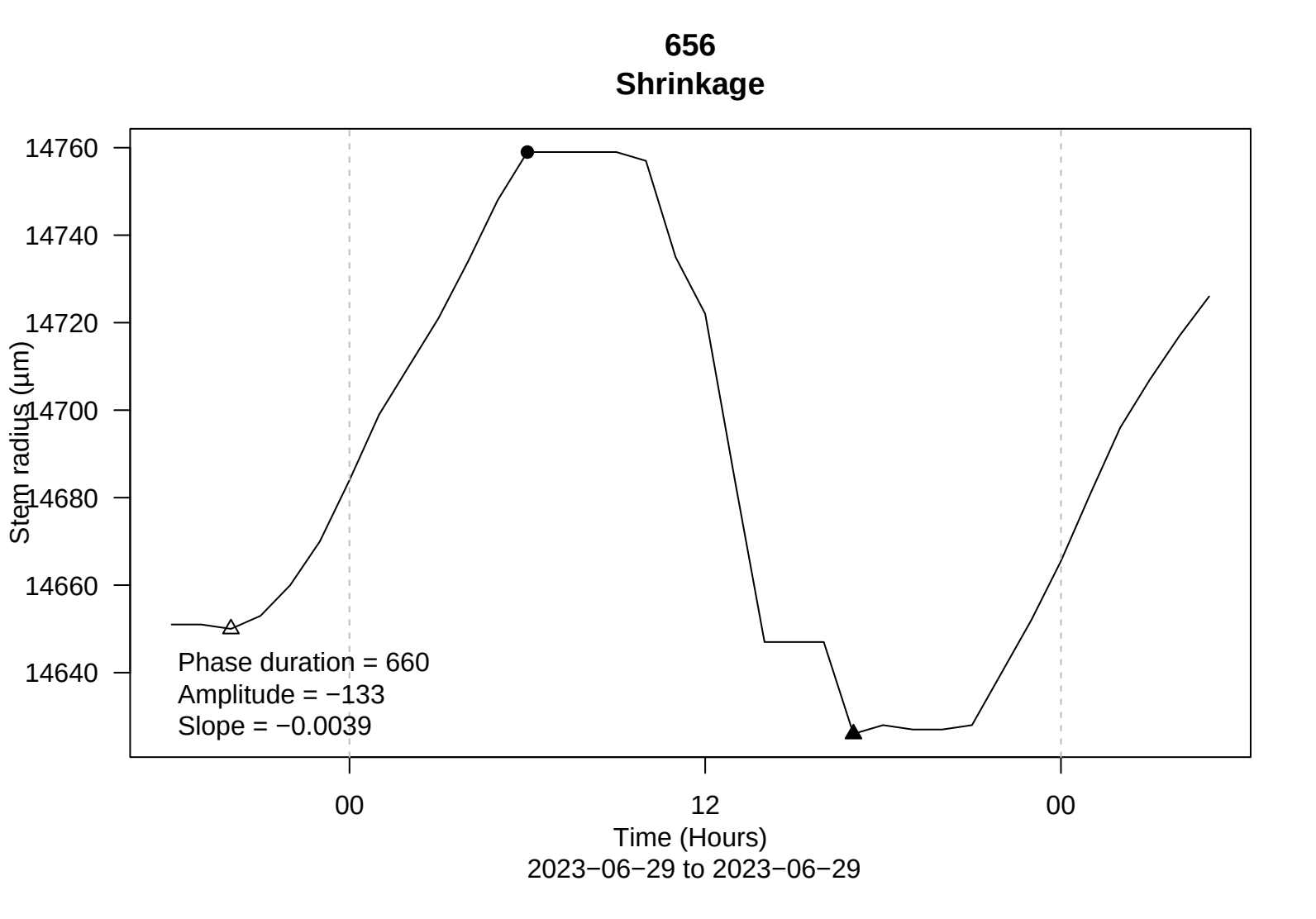

656
Expansion
14640
14620
14600
14580
14560
14540
Stem radius (µm)
Phase duration = 960
Amplitude = 104
Slope = 0.0022
12
00
12
Time (Hours)
2023−06−26 to 2023−06−27

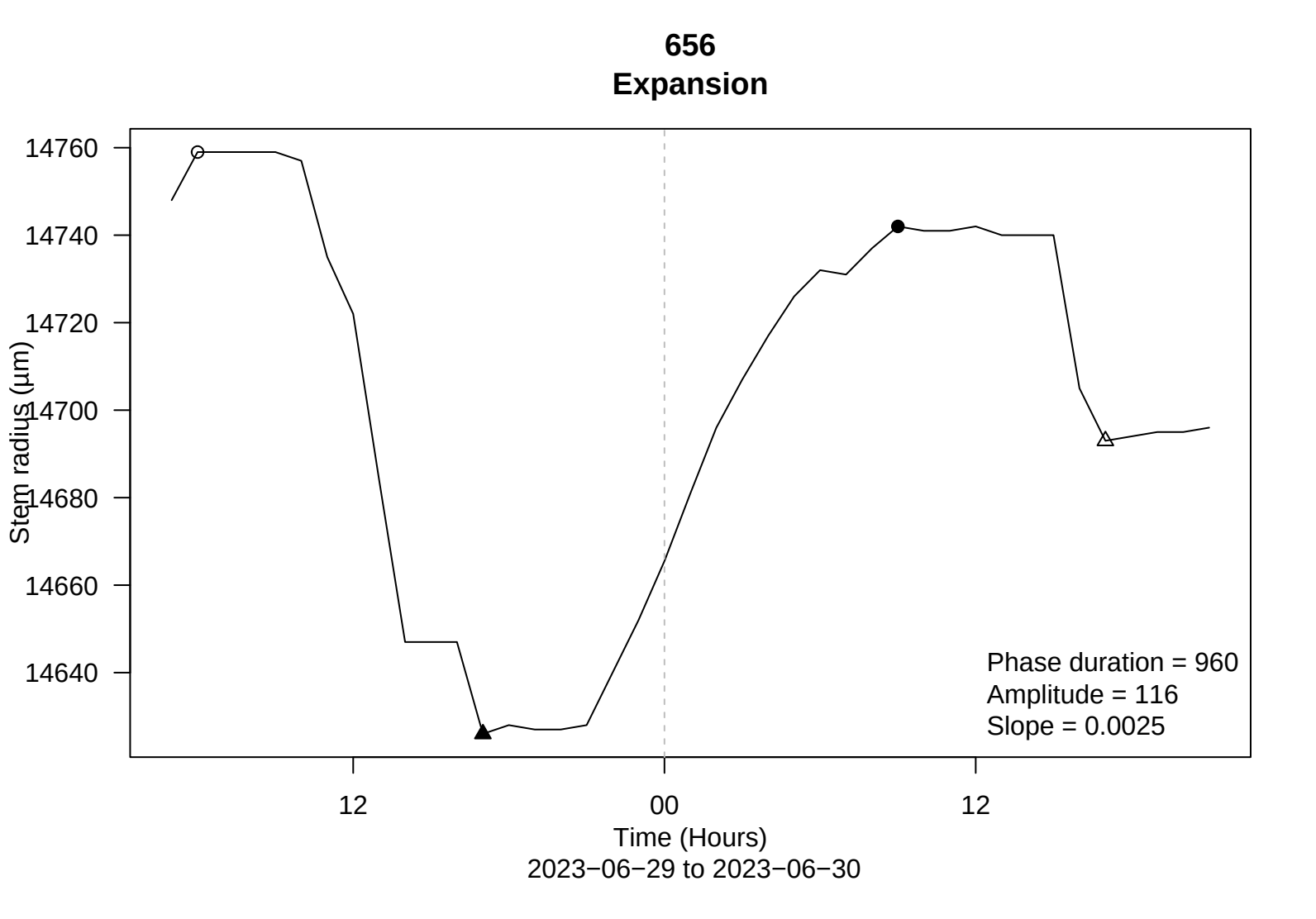

656
Shrinkage
14660
14640
14620
14600
14580
14560
14540
Stem radius (µm)
Phase duration = 480
Amplitude = −55
Slope = −0.0018
00
12
00
Time (Hours)
2023−06−27 to 2023−06−27

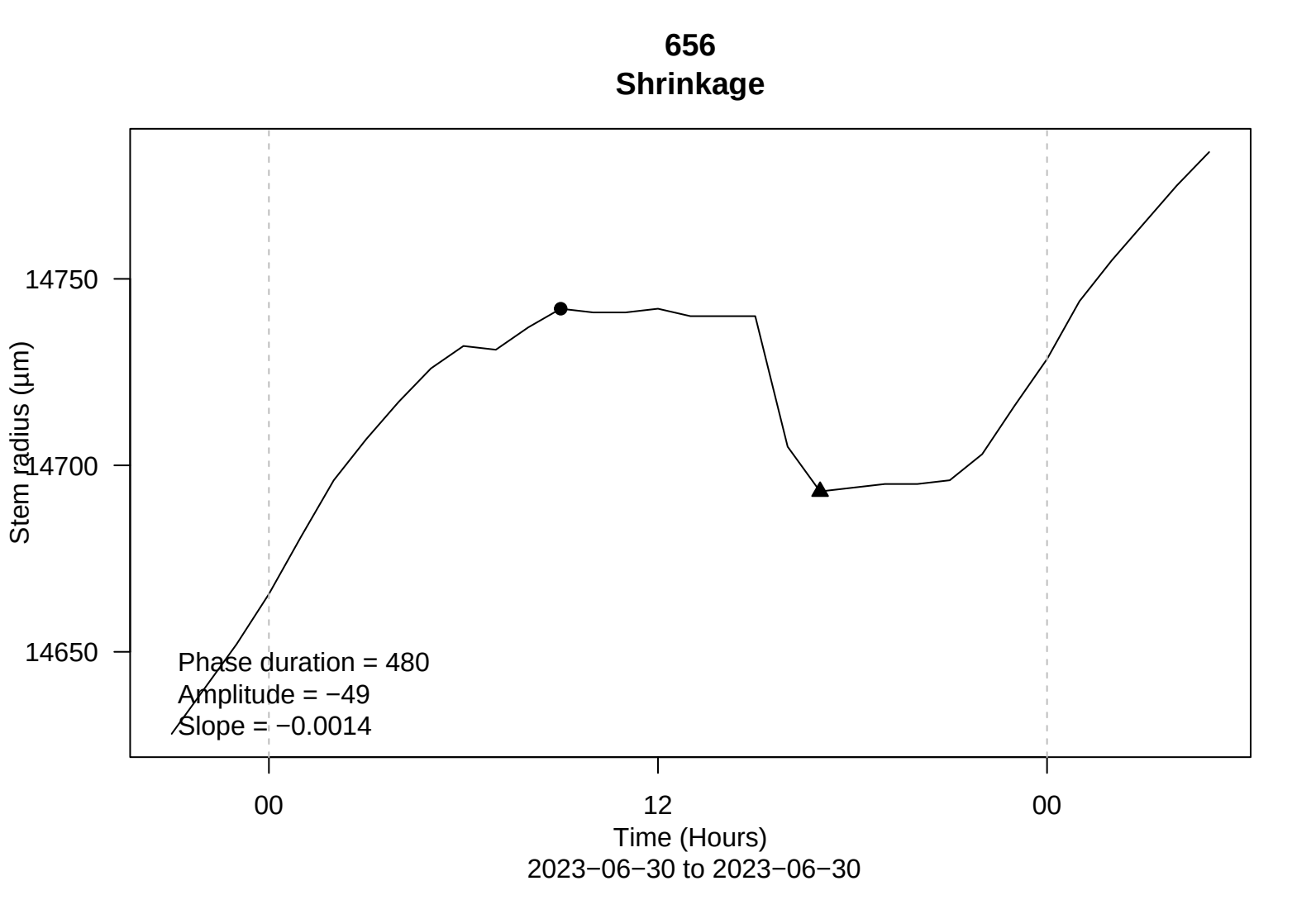

656
Expansion
14680
14660
14640
14620
14600
14580
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−27 to 2023−06−28
Phase duration = 960
Amplitude = 96
Slope = 0.0021

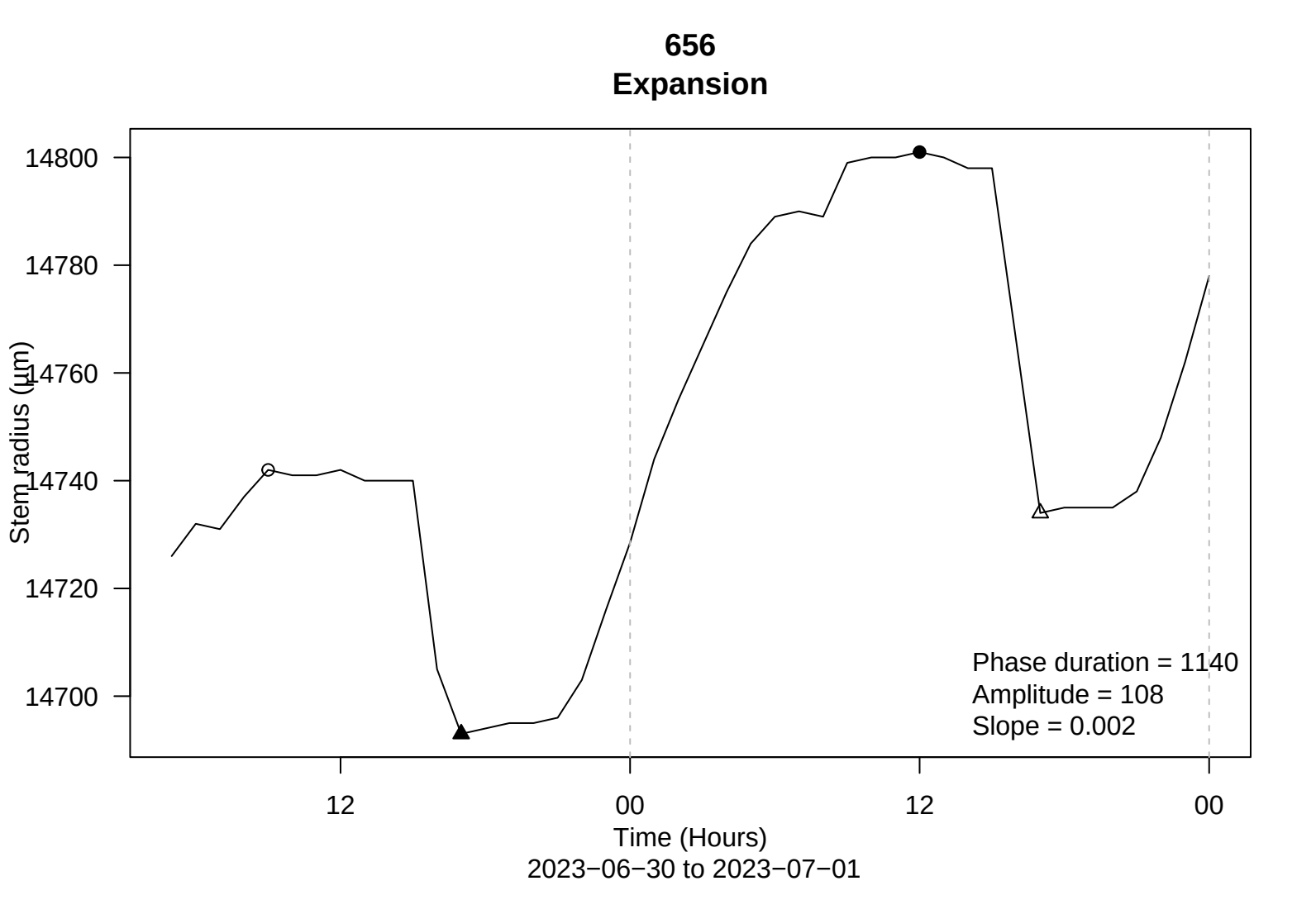

656
Shrinkage
14750
14700
14650
14600
Stem radius (µm)
Phase duration = 660
Amplitude = −27
Slope = −9e−04
00
12
00
Time (Hours)
2023−06−28 to 2023−06−28

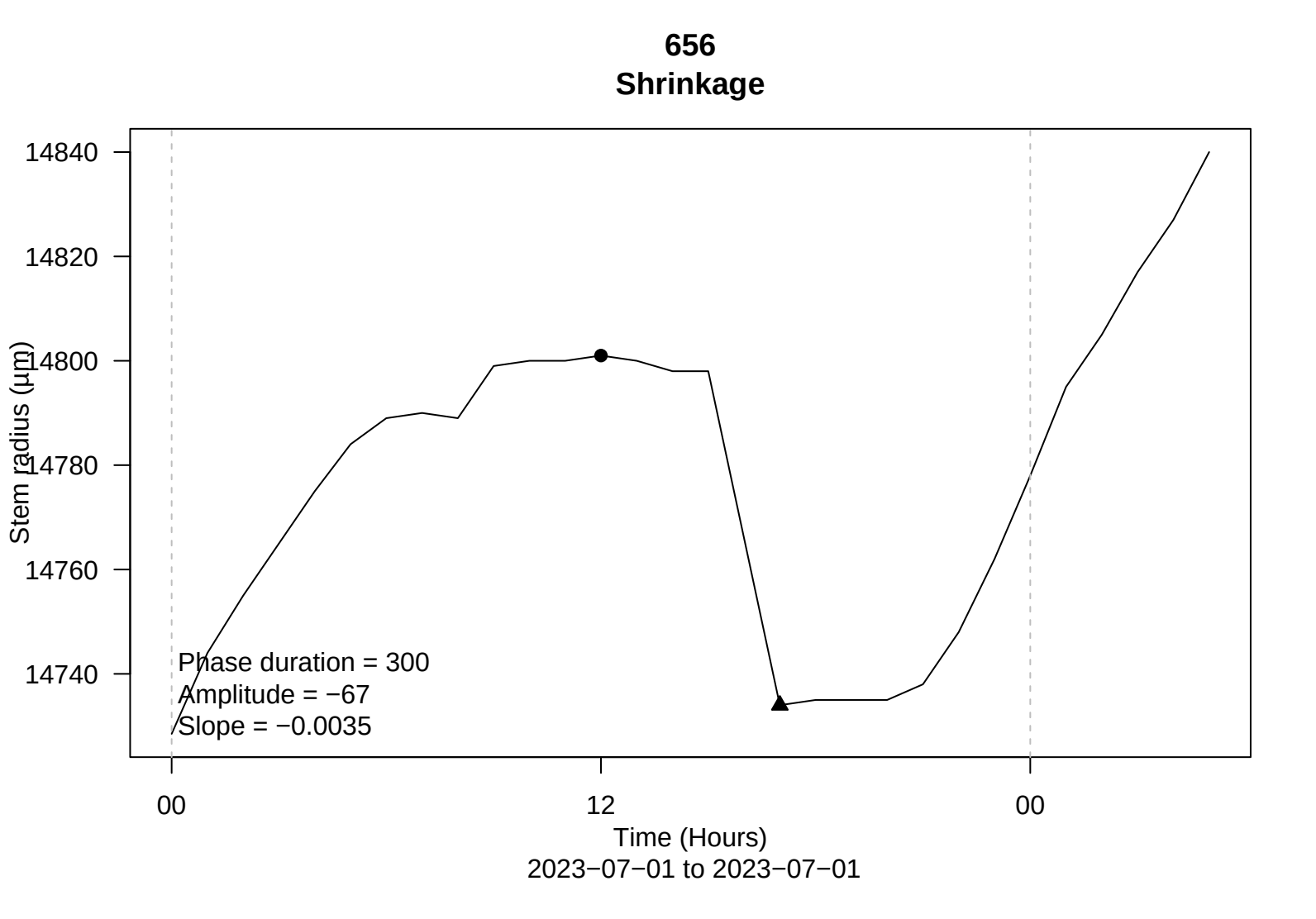

656
Expansion
14760
14740
14720
14700
14680
14660
14640
Stem radius (µm)
Phase duration = 600
Amplitude = 109
Slope = 0.0032
12
00
12
Time (Hours)
2023−06−28 to 2023−06−29

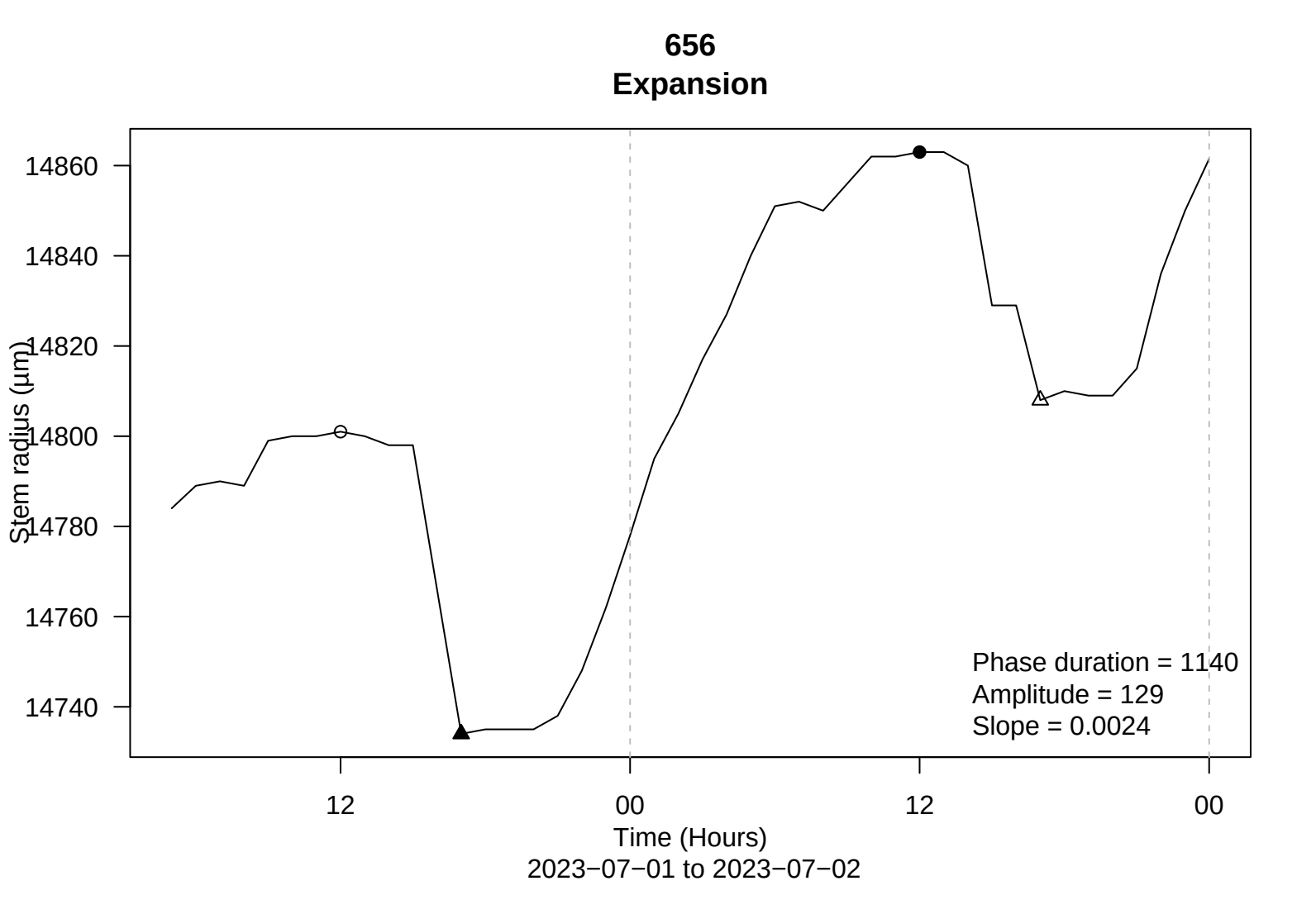

656
Shrinkage
14760
14740
14720
14700
14680
14660
14640
Stem radius (µm)
Phase duration = 660
Amplitude = −133
Slope = −0.0039
00
12
00
Time (Hours)
2023−06−29 to 2023−06−29

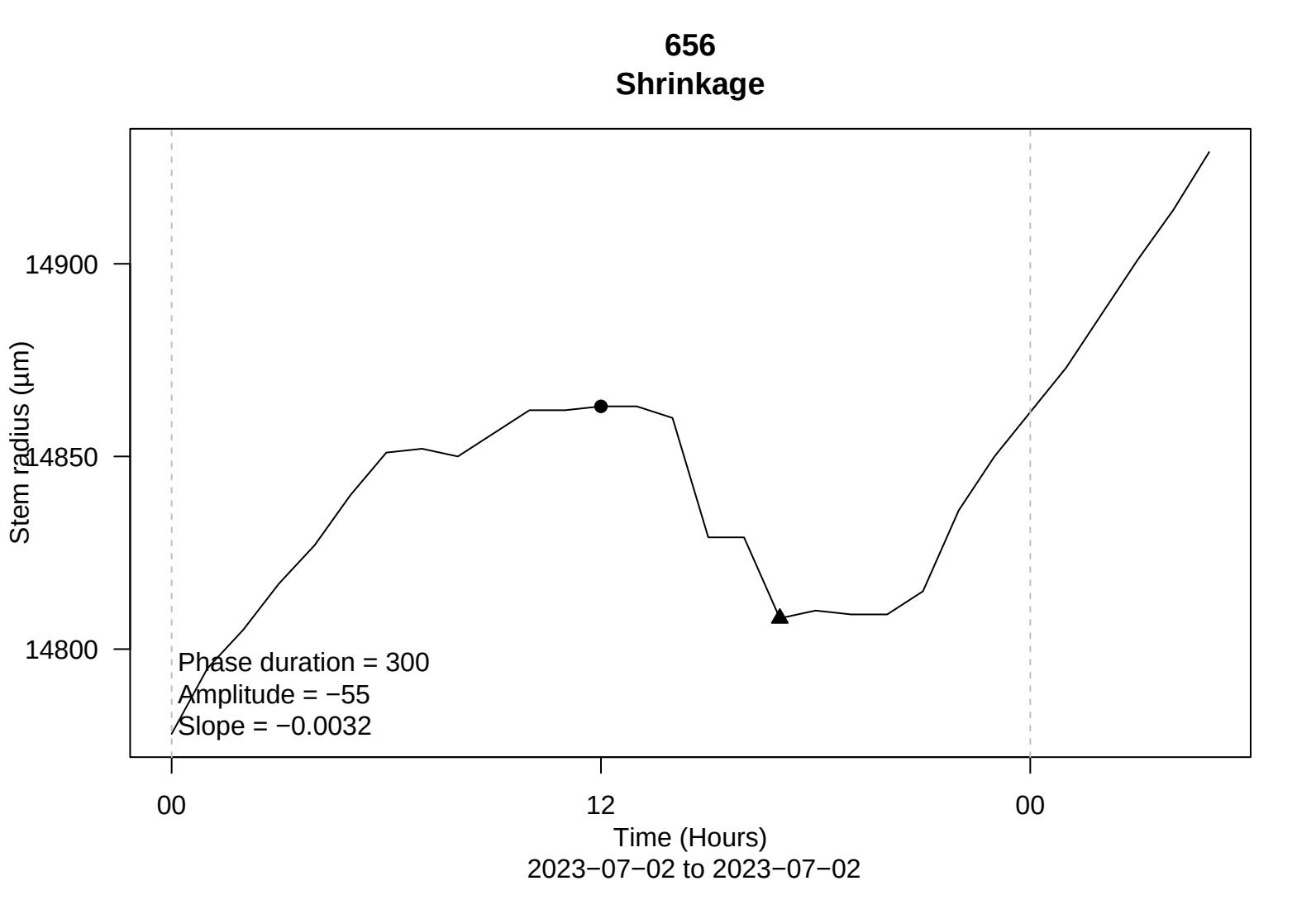

656
Expansion
14760
14740
14720
14700
14680
14660
14640
Stem radius (µm)
Phase duration = 960
Amplitude = 116
Slope = 0.0025
12
00
12
Time (Hours)
2023−06−29 to 2023−06−30

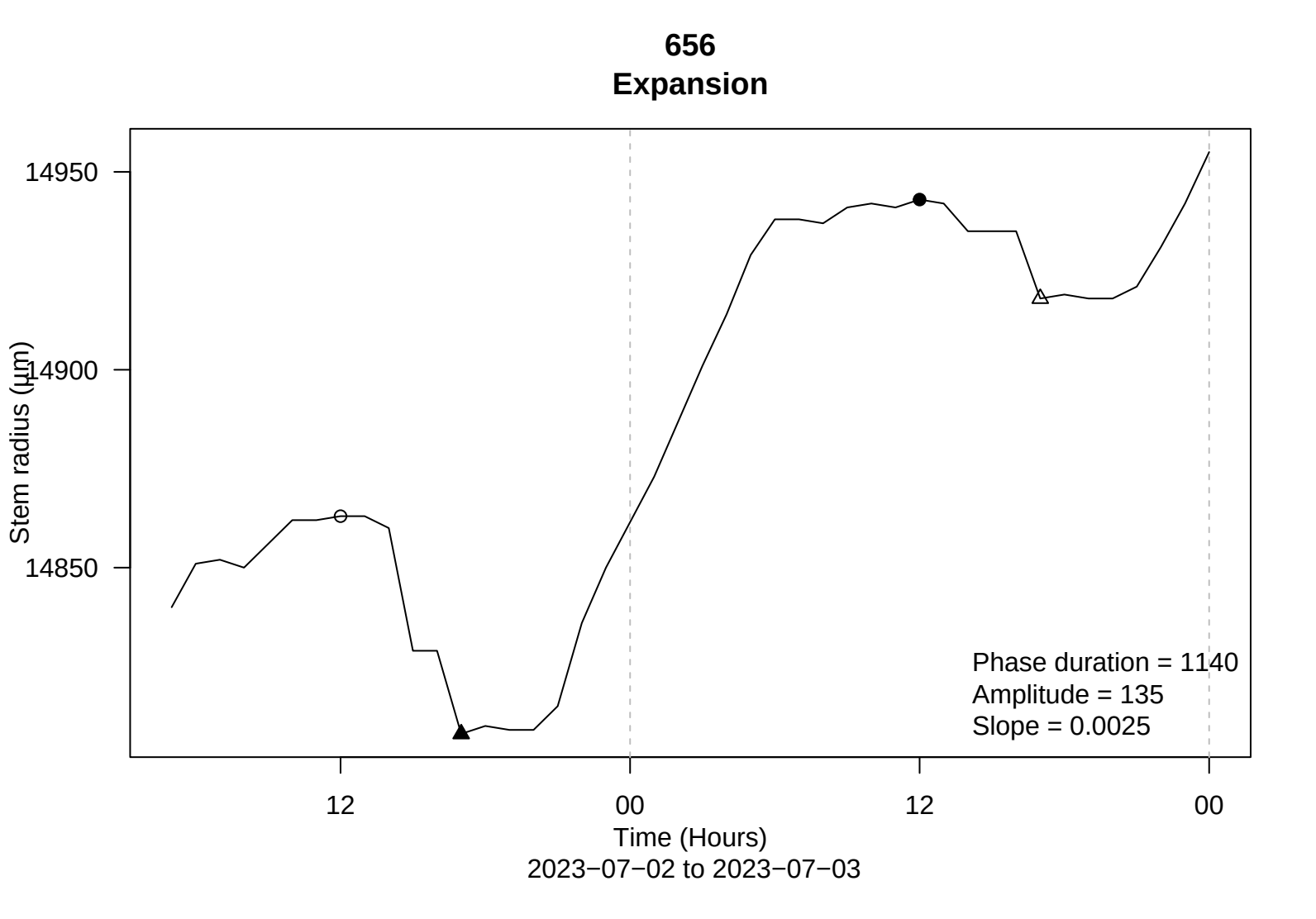

656
Shrinkage
14750
14700
14650
Stem radius (µm)
Phase duration = 480
Amplitude = −49
Slope = −0.0014
00
12
00
Time (Hours)
2023−06−30 to 2023−06−30

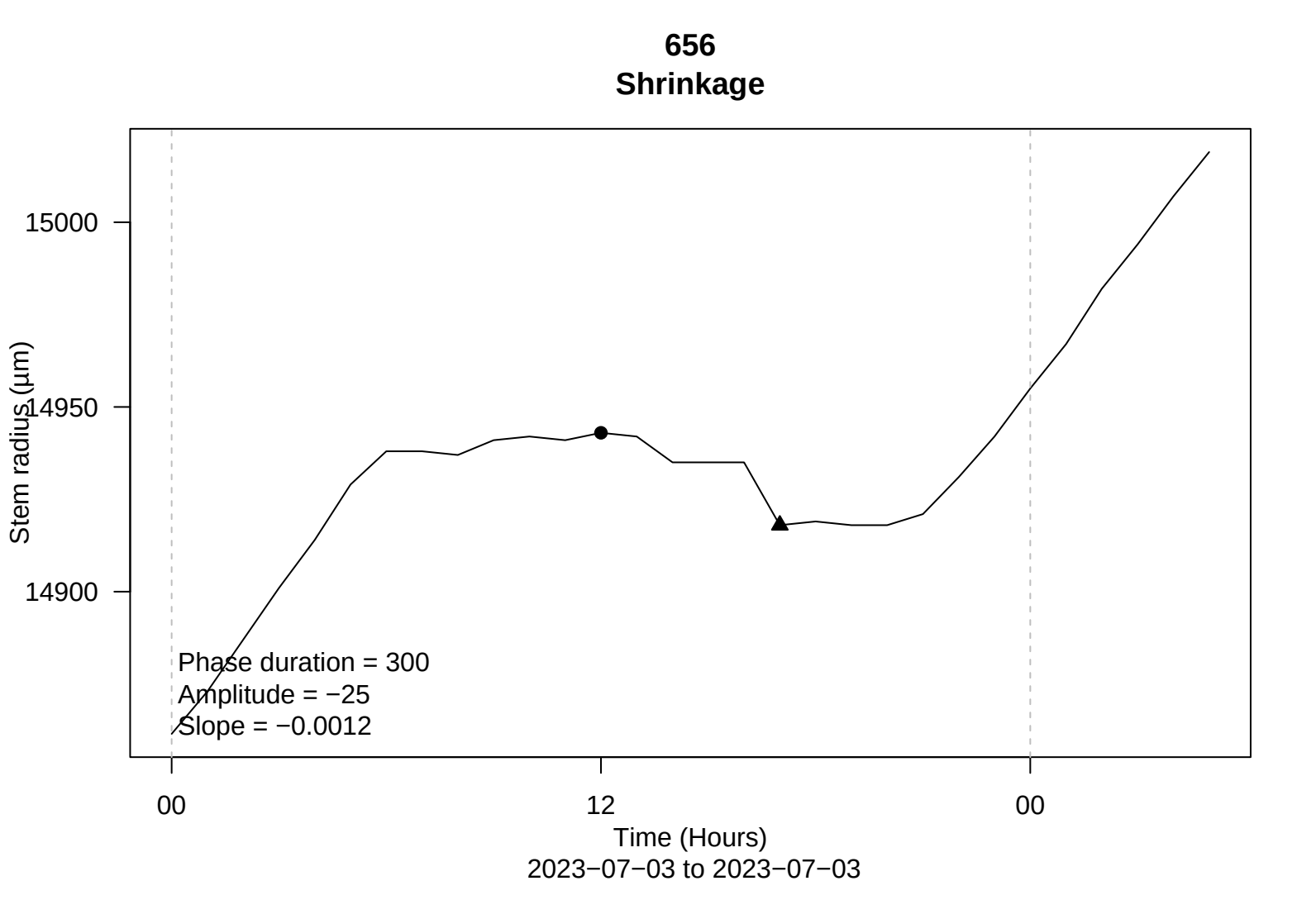

656
Expansion
14800
14780
14760
14740
14720
14700
Stem radius (µm)
Phase duration = 1140
Amplitude = 108
Slope = 0.002
12
00
12
00
Time (Hours)
2023−06−30 to 2023−07−01

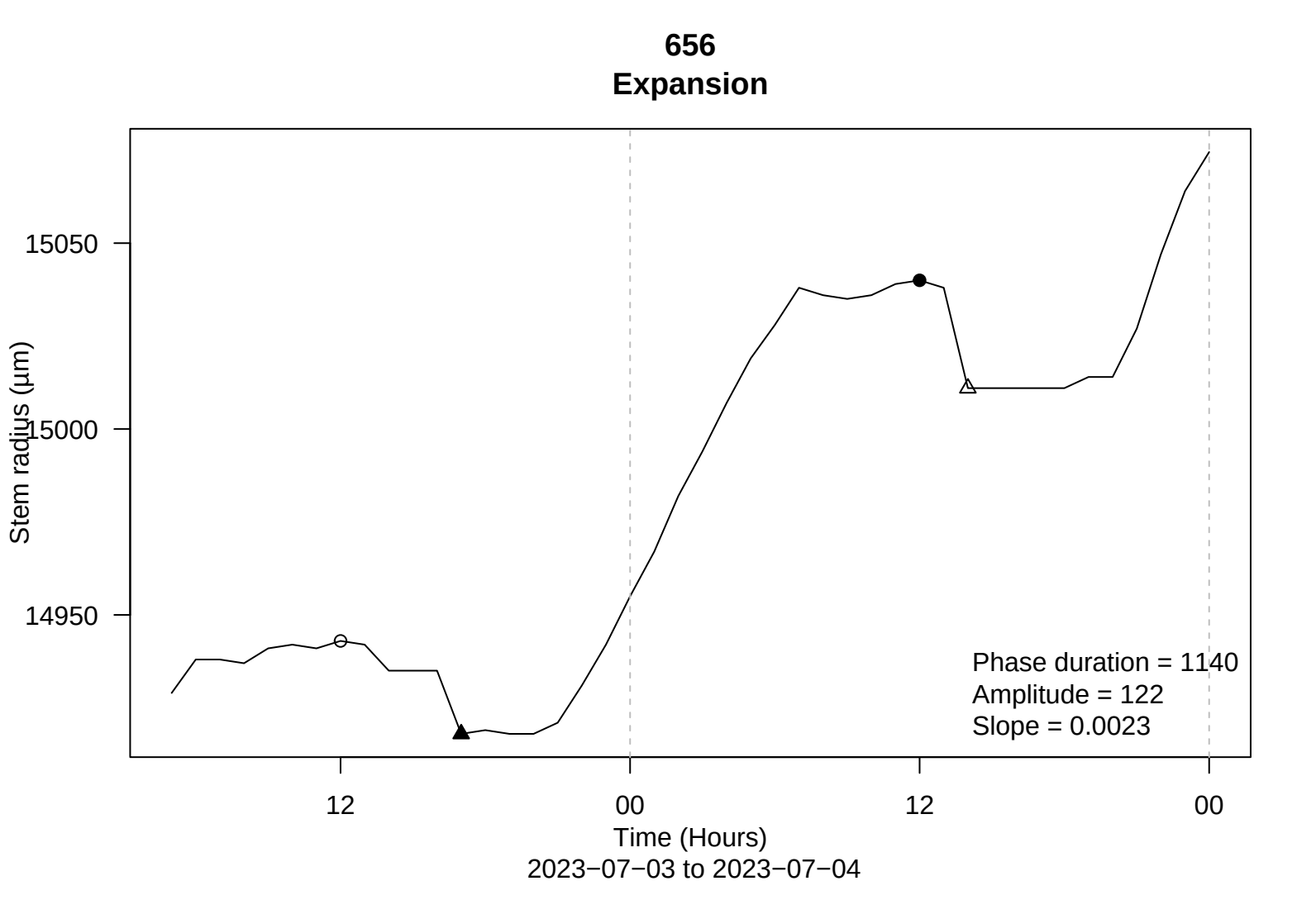

656
Shrinkage
14840
14820
14800
14780
14760
14740
Stem radius (µm)
Phase duration = 300
Amplitude = −67
Slope = −0.0035
00
12
00
Time (Hours)
2023−07−01 to 2023−07−01

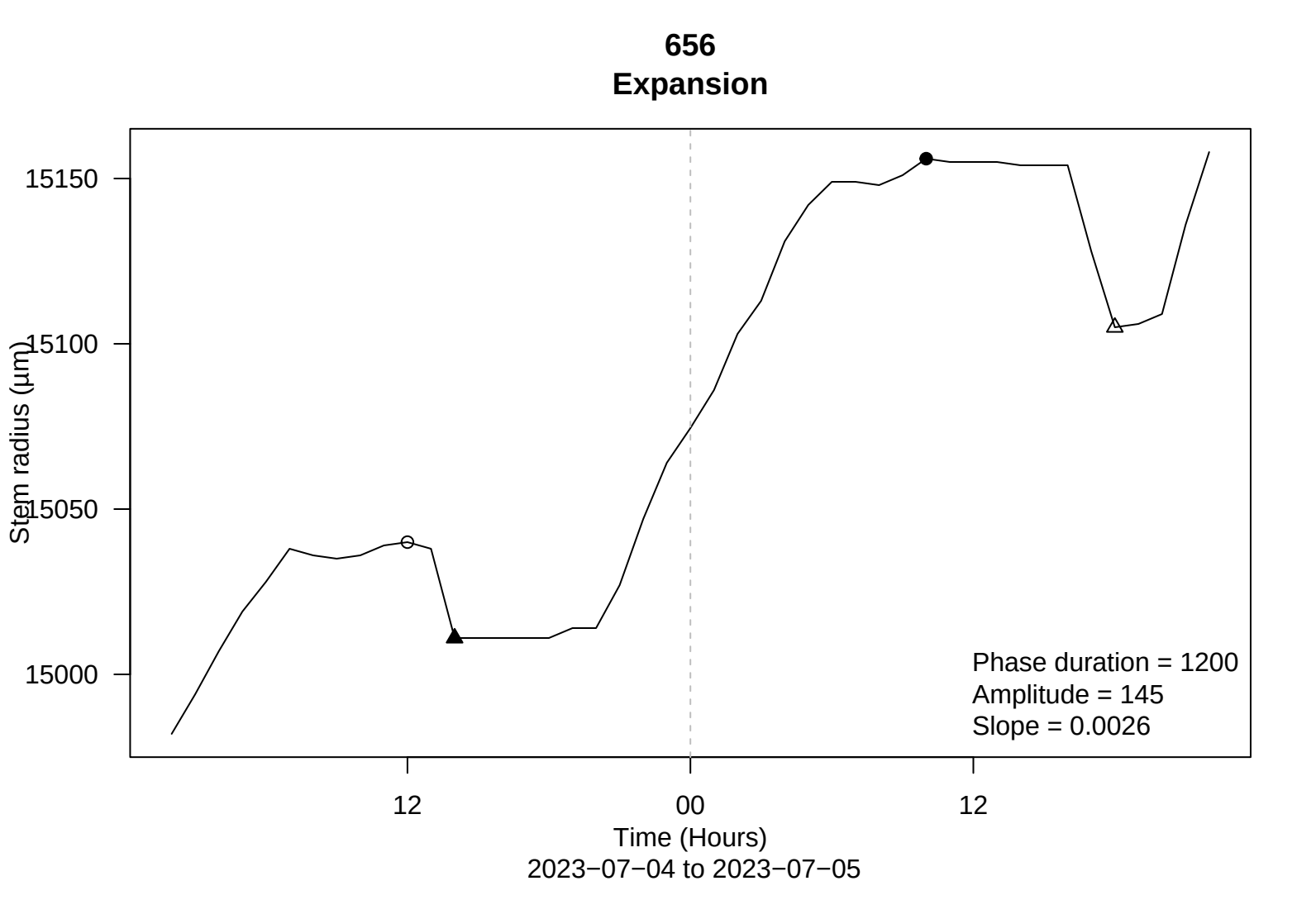

656
Expansion
14860
14840
14820
14800
14780
14760
14740
Stem radius (µm)
Phase duration = 1140
Amplitude = 129
Slope = 0.0024
12
00
12
00
Time (Hours)
2023−07−01 to 2023−07−02

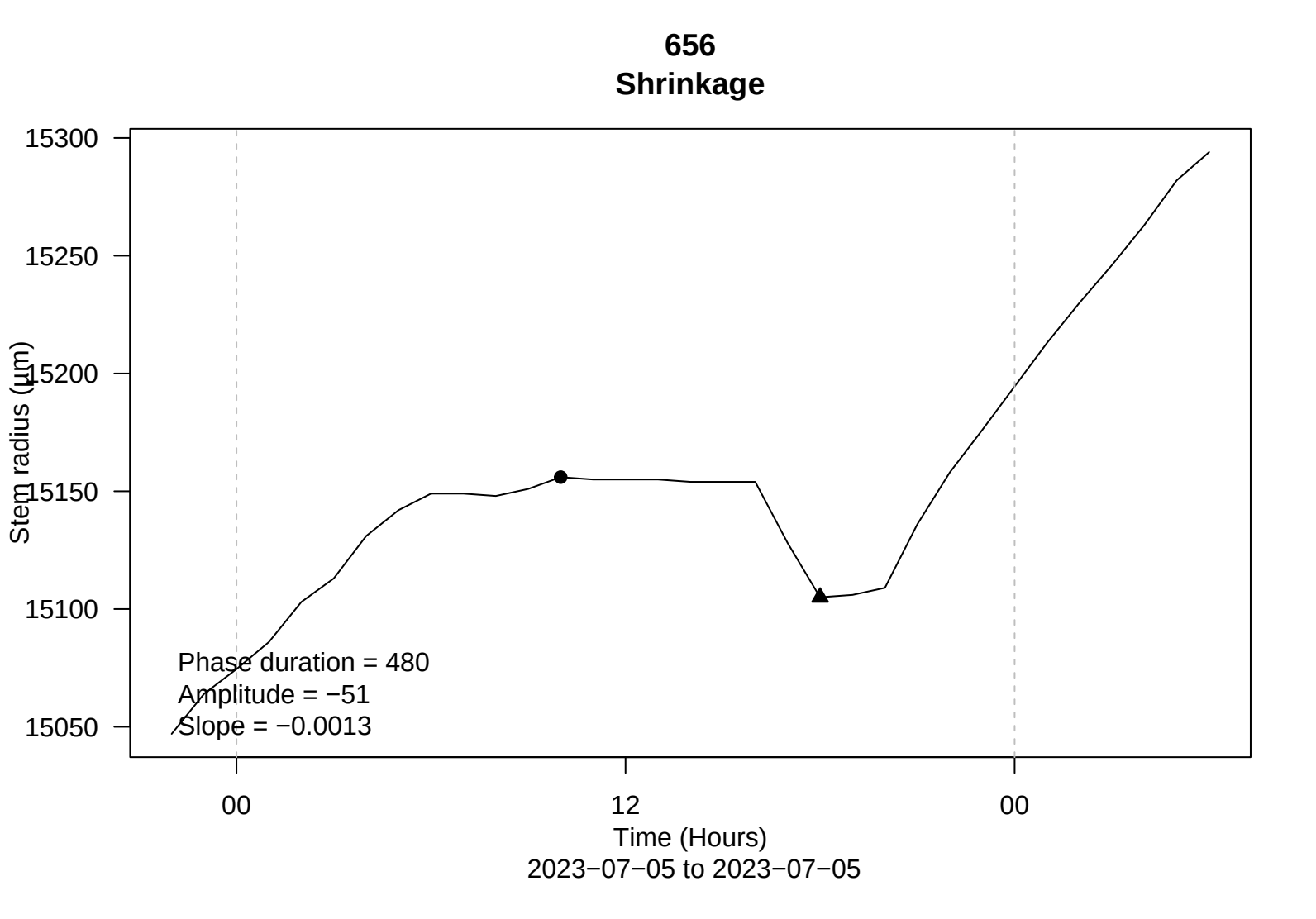

656
Shrinkage
14900
14850
14800
Stem radius (µm)
Phase duration = 300
Amplitude = −55
Slope = −0.0032
00
12
00
Time (Hours)
2023−07−02 to 2023−07−02

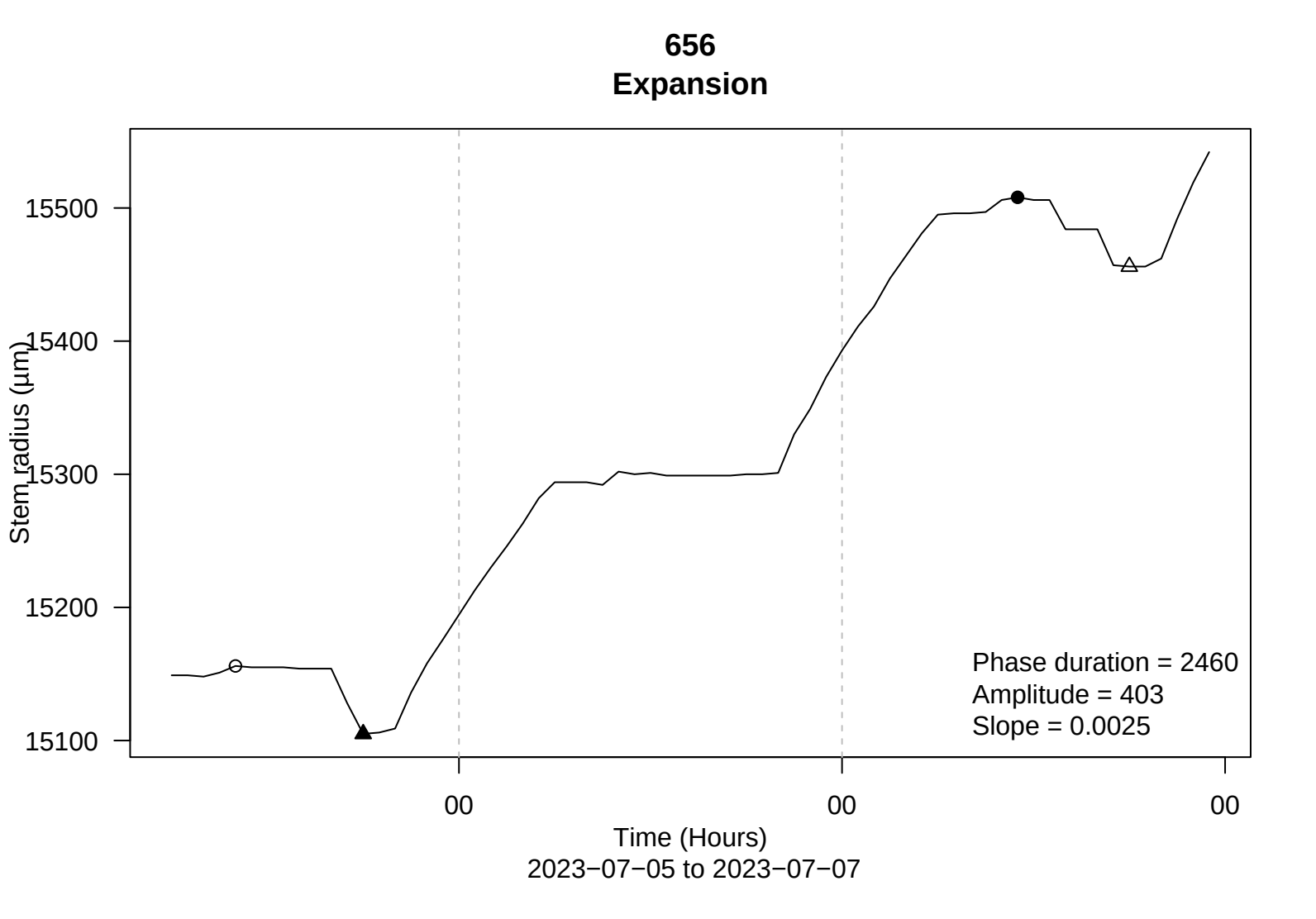

656
Expansion
14950
14900
14850
Stem radius (µm)
Phase duration = 1140
Amplitude = 135
Slope = 0.0025
12
00
12
00
Time (Hours)
2023−07−02 to 2023−07−03

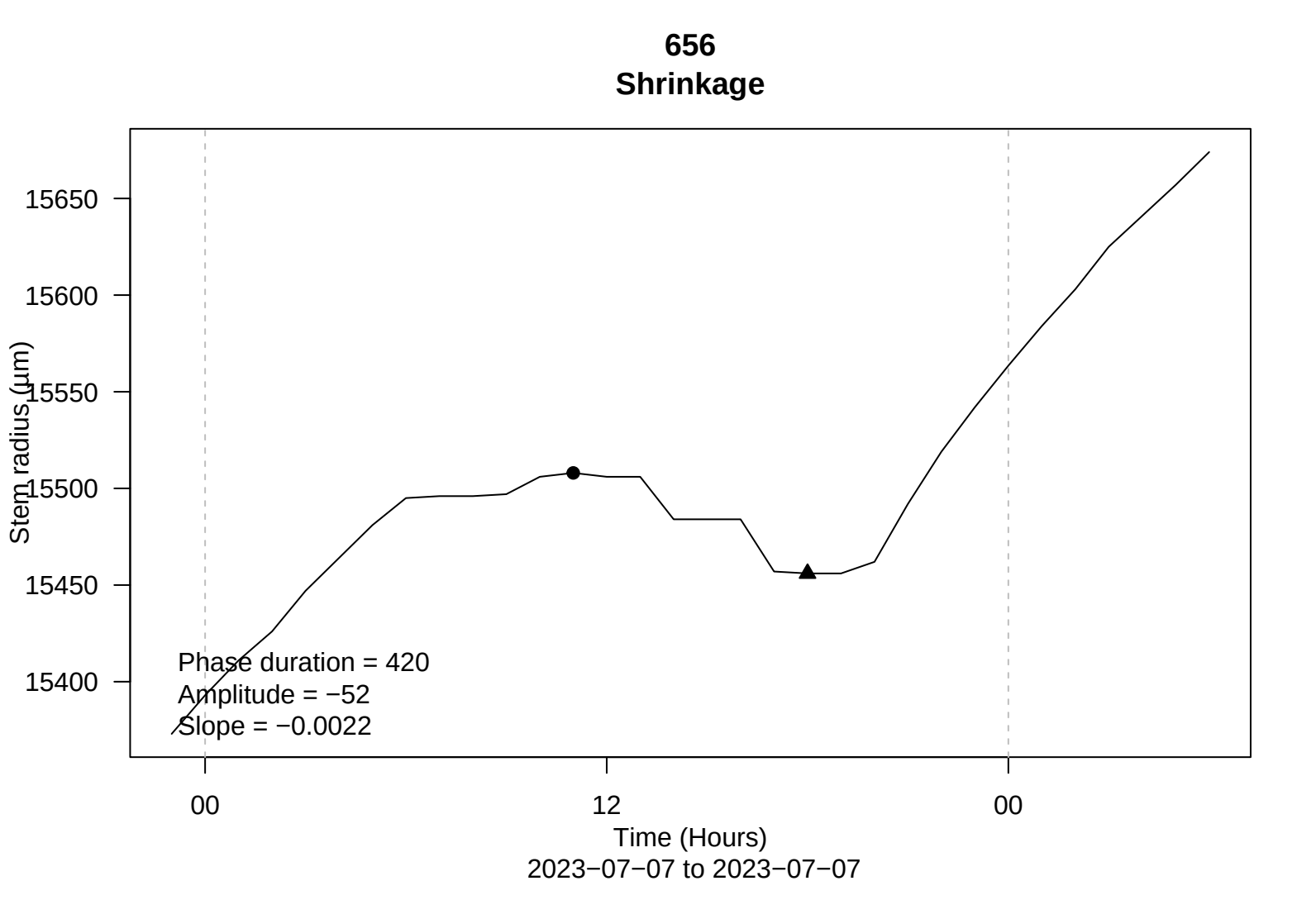

656
Shrinkage
15000
14950
14900
Stem radius (µm)
Phase duration = 300
Amplitude = −25
Slope = −0.0012
00
12
00
Time (Hours)
2023−07−03 to 2023−07−03

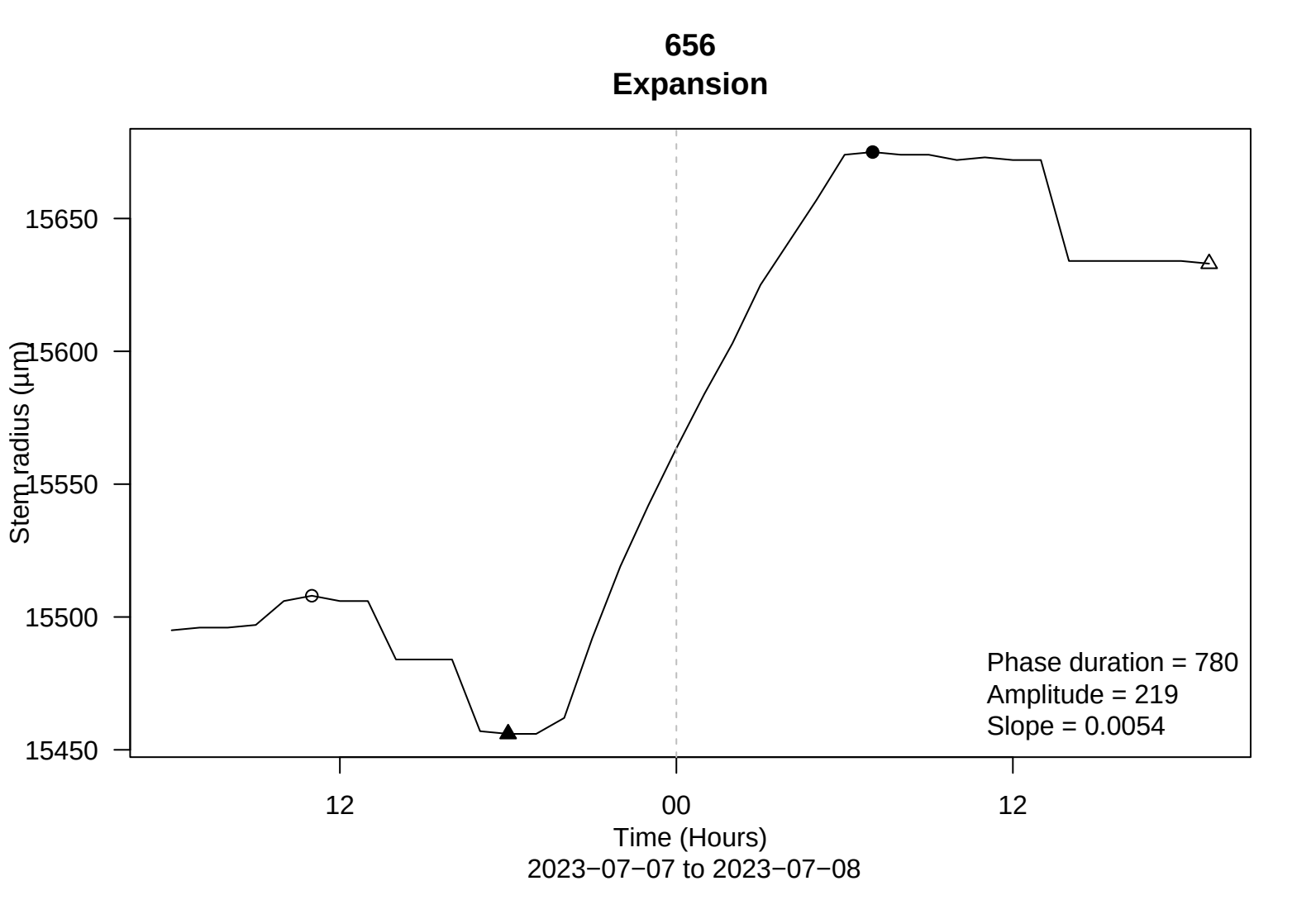

656
Expansion
15050
15000
14950
Stem radius (µm)
Phase duration = 1140
Amplitude = 122
Slope = 0.0023
12
00
12
00
Time (Hours)
2023−07−03 to 2023−07−04

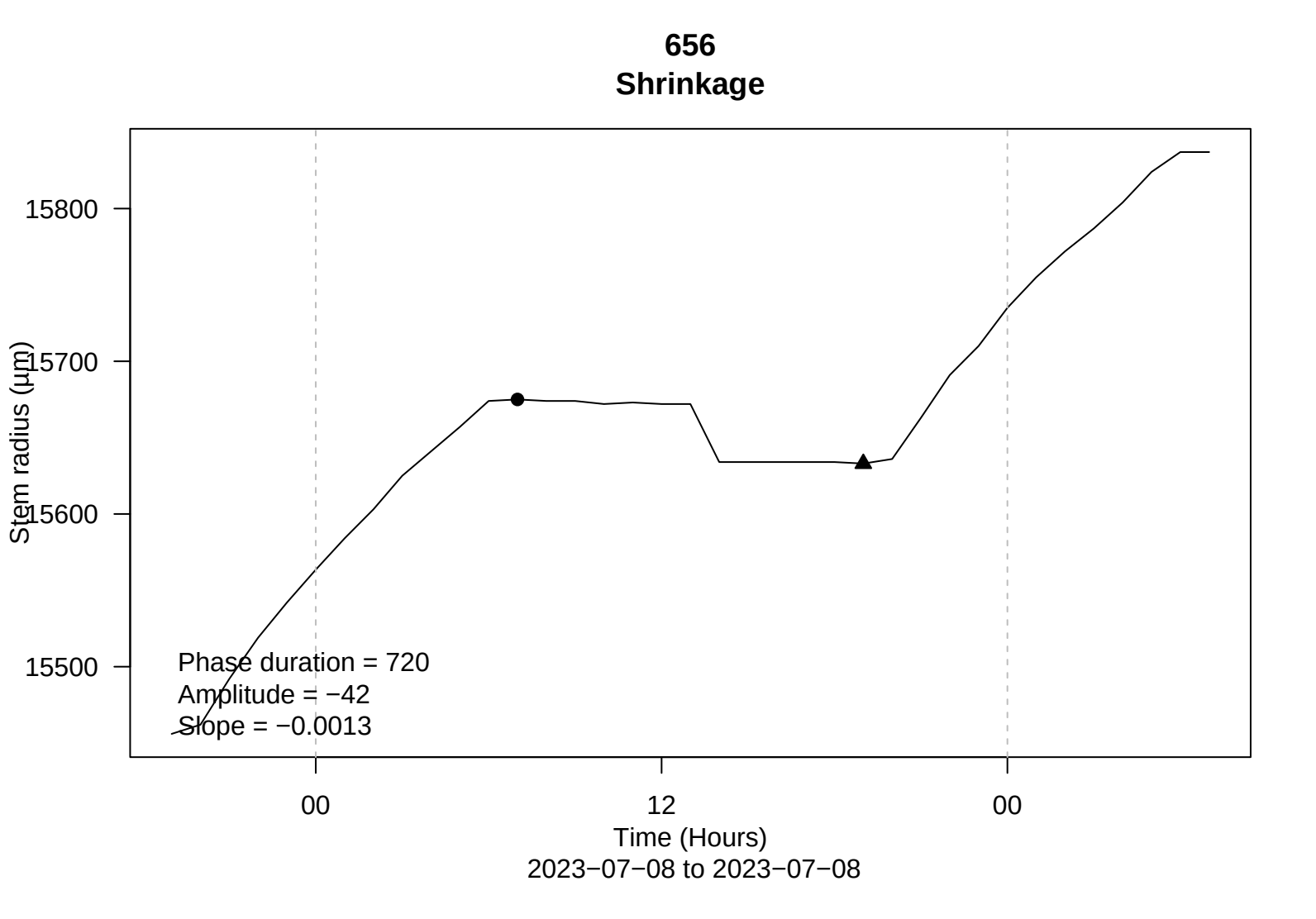

656
Expansion
15150
15100
15050
15000
Stem radius (µm)
Phase duration = 1200
Amplitude = 145
Slope = 0.0026
12
00
12
Time (Hours)
2023−07−04 to 2023−07−05

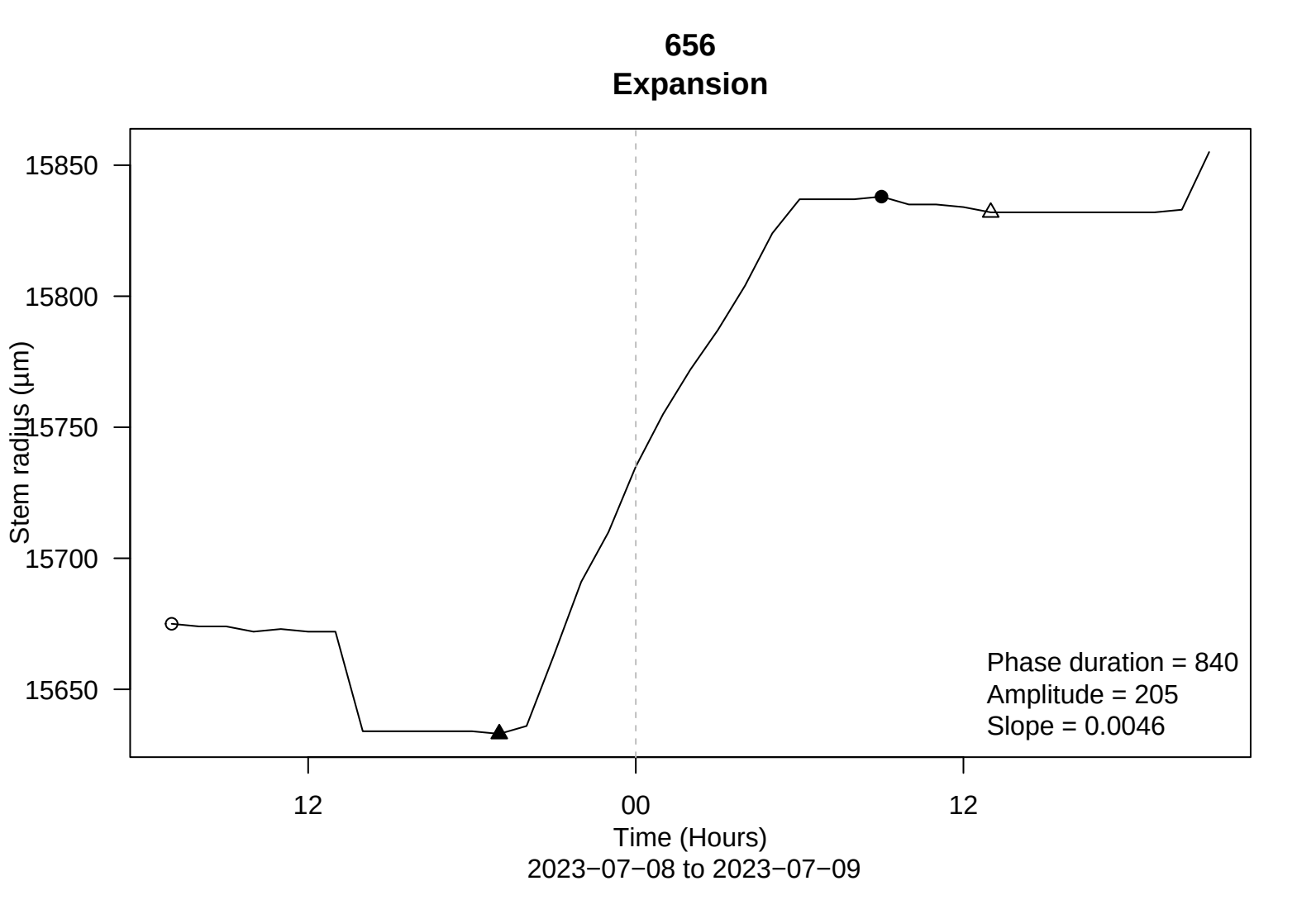

656
Shrinkage
15300
15250
15200
15150
15100
15050
Stem radius (µm)
Phase duration = 480
Amplitude = −51
Slope = −0.0013
00
12
00
Time (Hours)
2023−07−05 to 2023−07−05

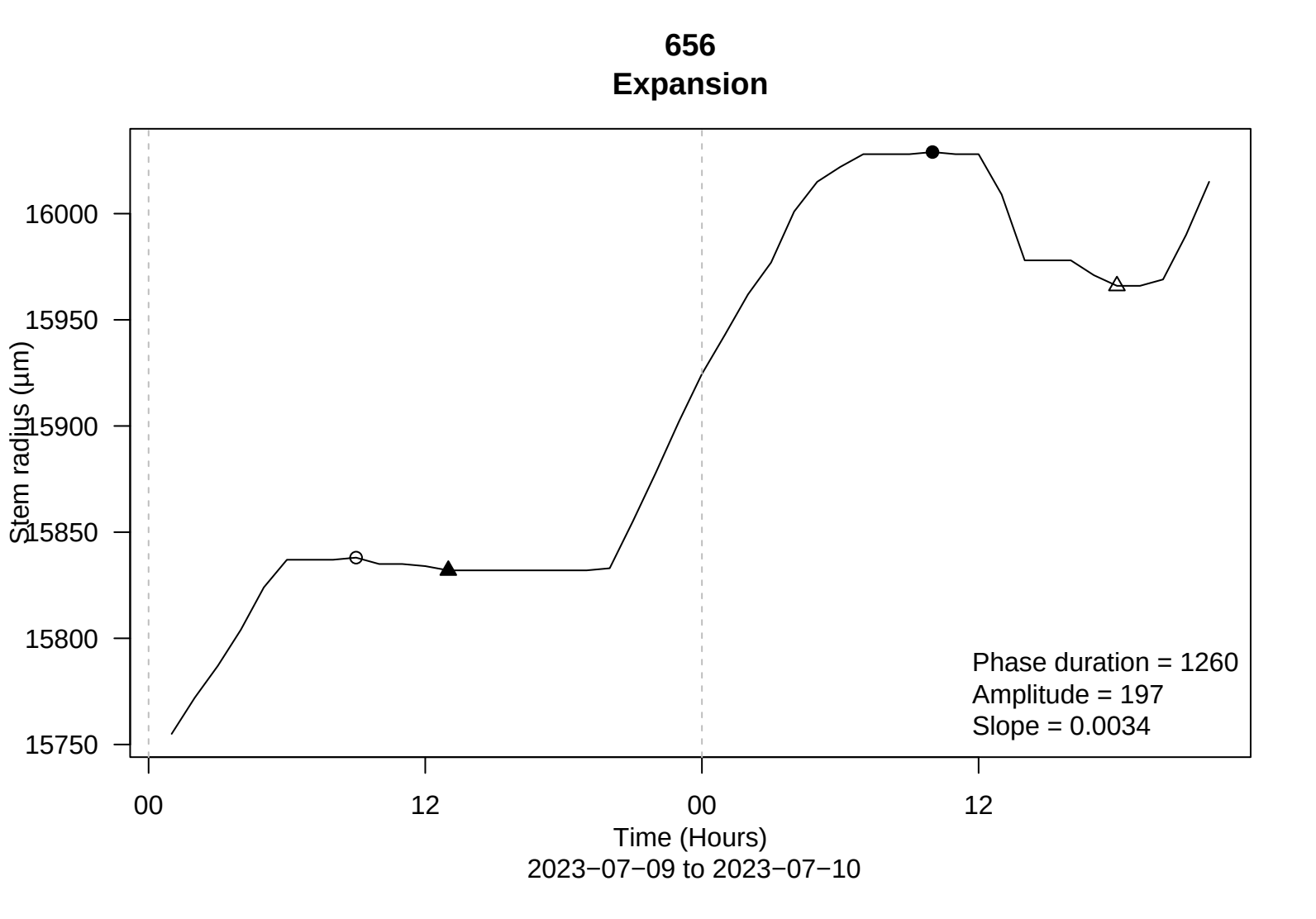

656
Expansion
15500
15400
15300
15200
15100
Stem radius (µm)
00
00
00
Time (Hours)
2023−07−05 to 2023−07−07
Phase duration = 2460
Amplitude = 403
Slope = 0.0025

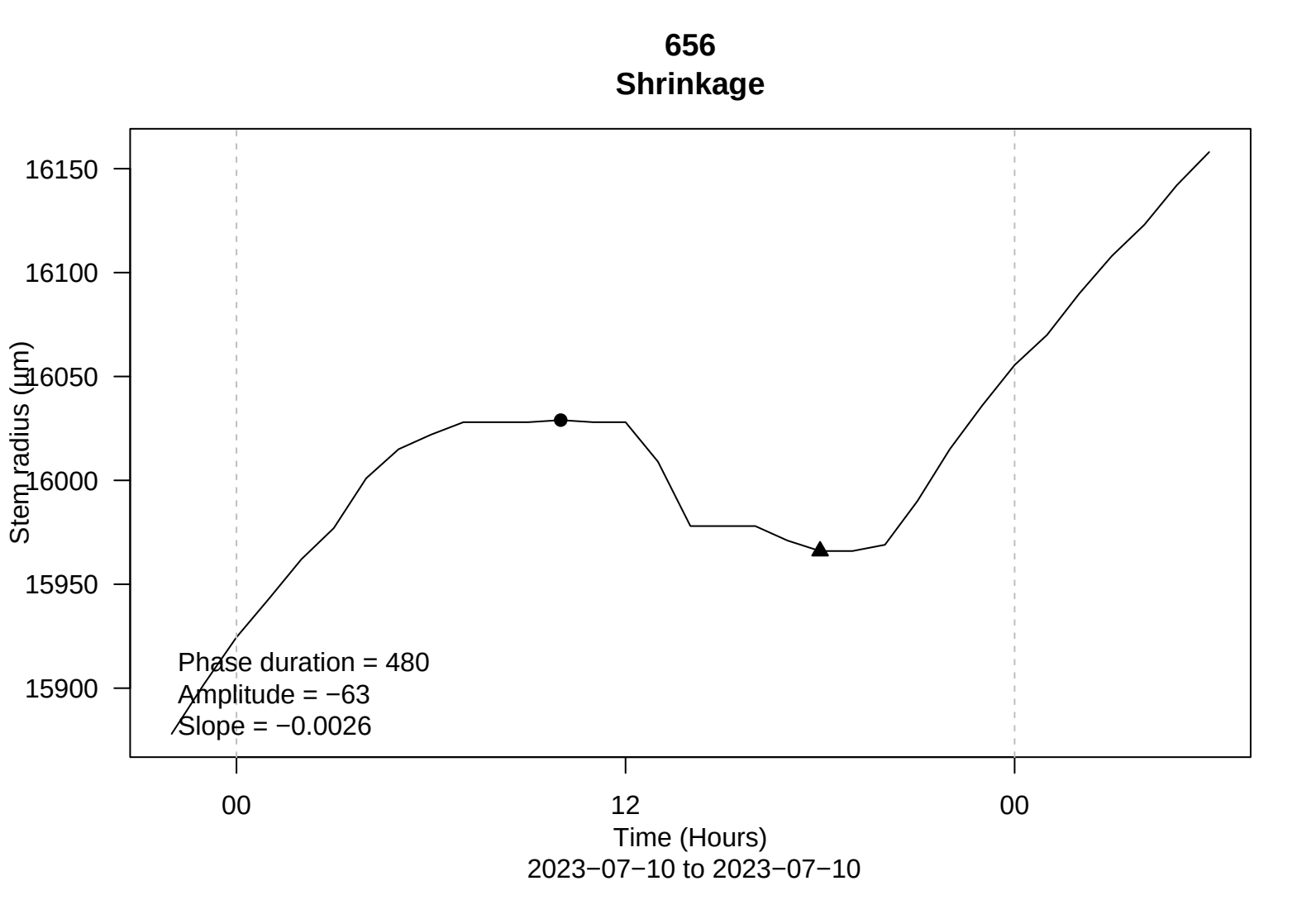

656
Shrinkage
15650
15600
15550
15500
15450
15400
Stem radius (µm)
Phase duration = 420
Amplitude = −52
Slope = −0.0022
00
12
00
Time (Hours)
2023−07−07 to 2023−07−07

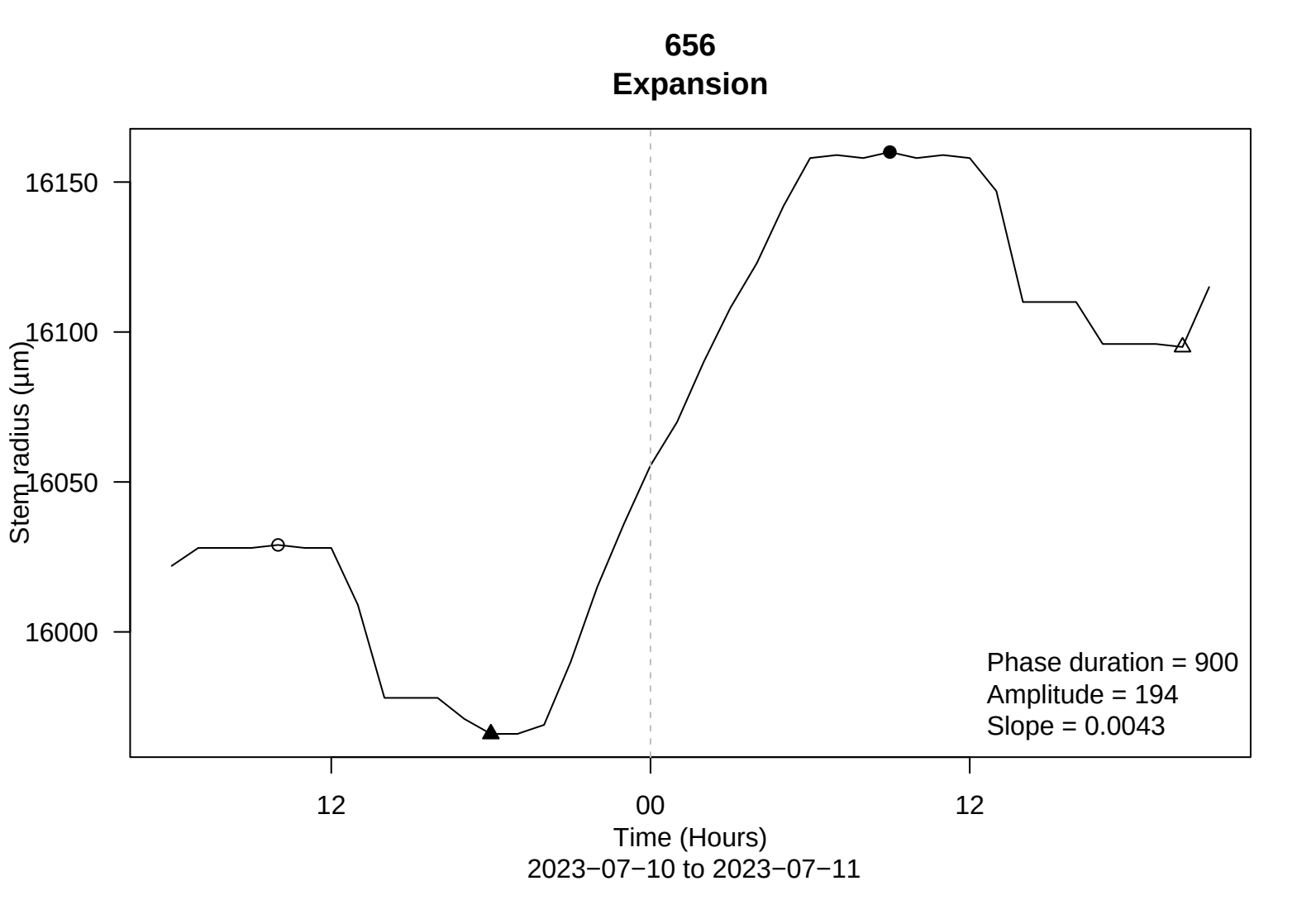

656
Expansion
15650
15600
15550
15500
15450
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−07 to 2023−07−08
Phase duration = 780
Amplitude = 219
Slope = 0.0054

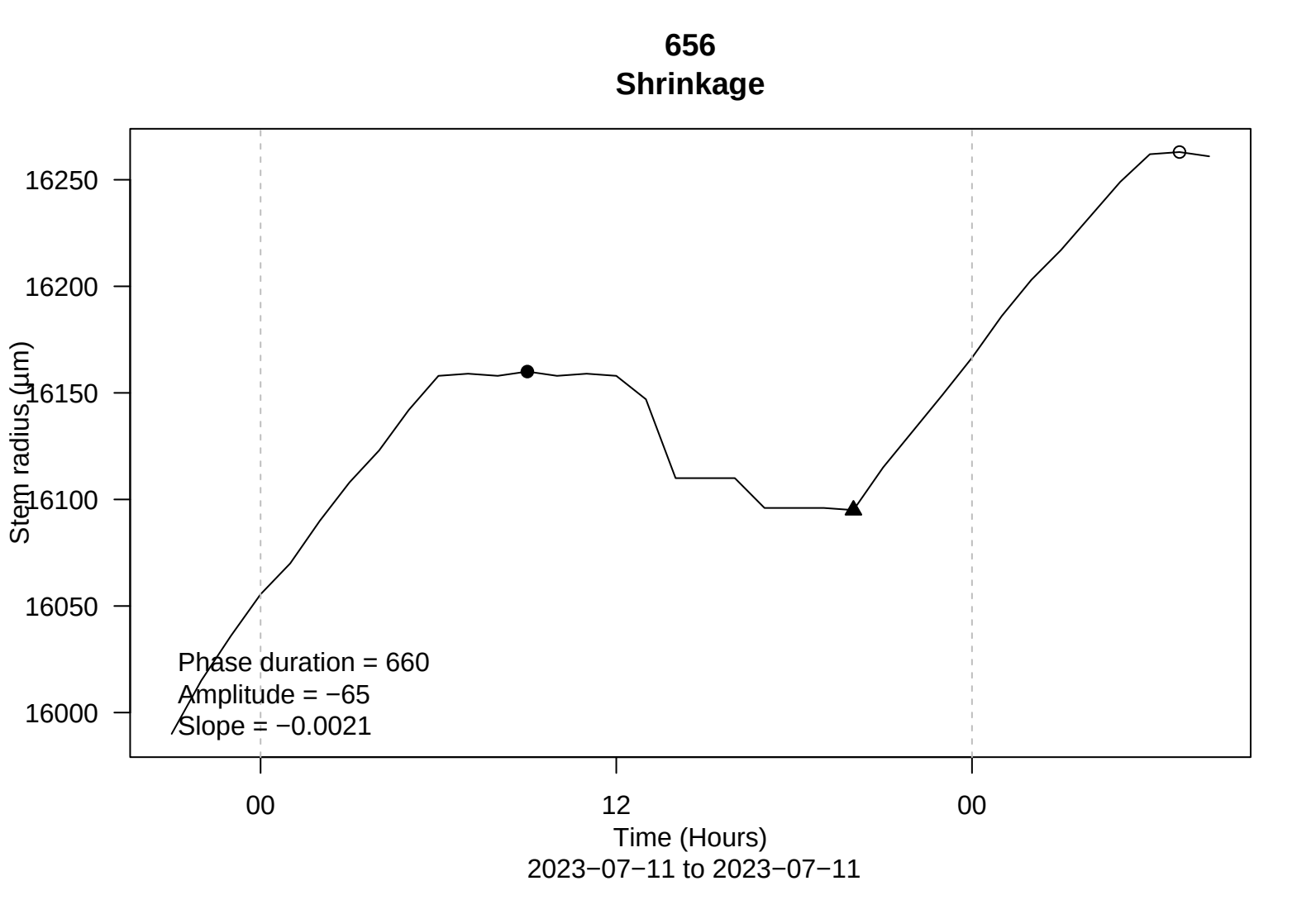

656
Shrinkage
15800
15700
15600
15500
Stem radius (µm)
Phase duration = 720
Amplitude = −42
Slope = −0.0013
00
12
00
Time (Hours)
2023−07−08 to 2023−07−08

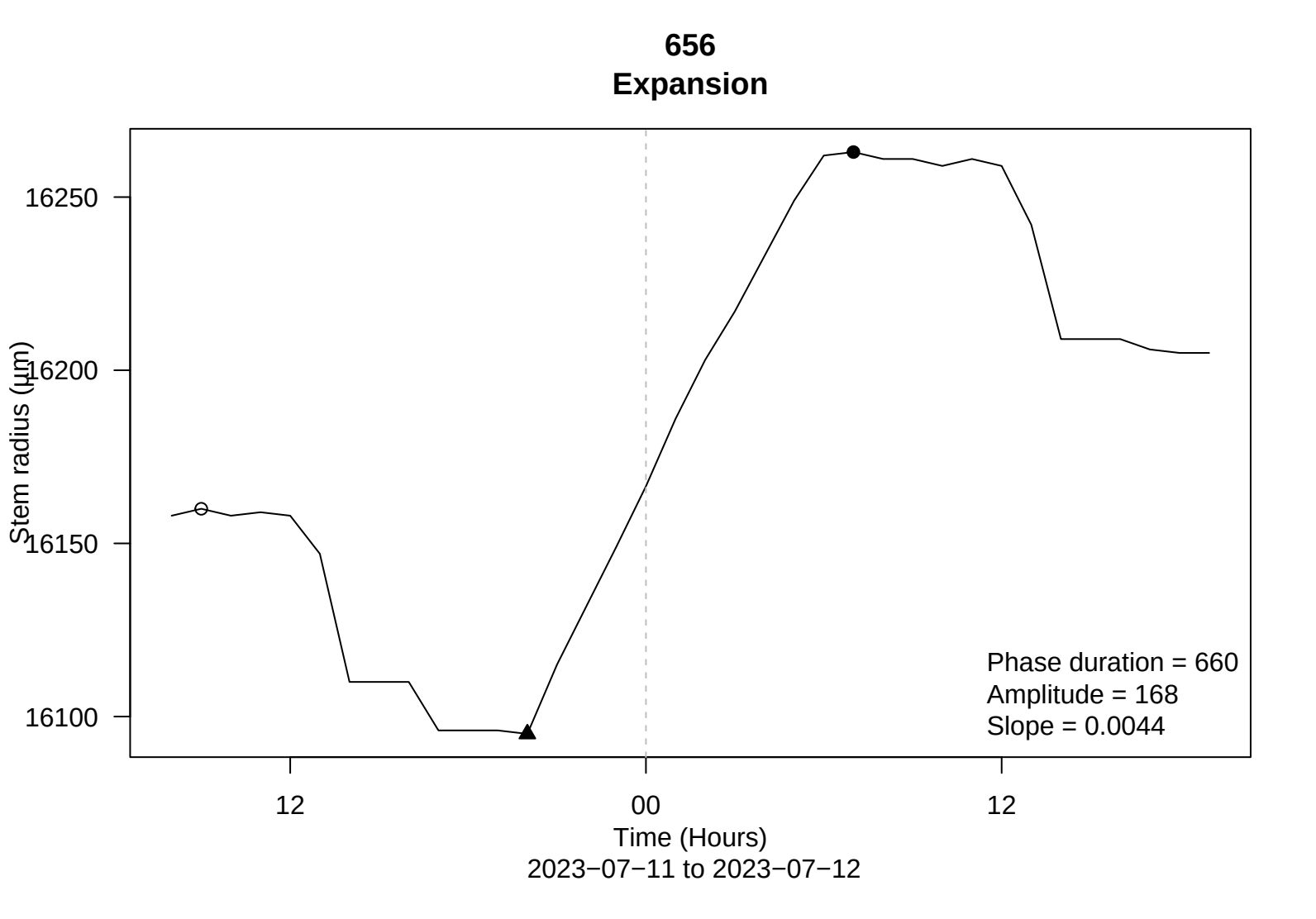

656
Expansion
15850
15800
15750
15700
15650
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−08 to 2023−07−09
Phase duration = 840
Amplitude = 205
Slope = 0.0046

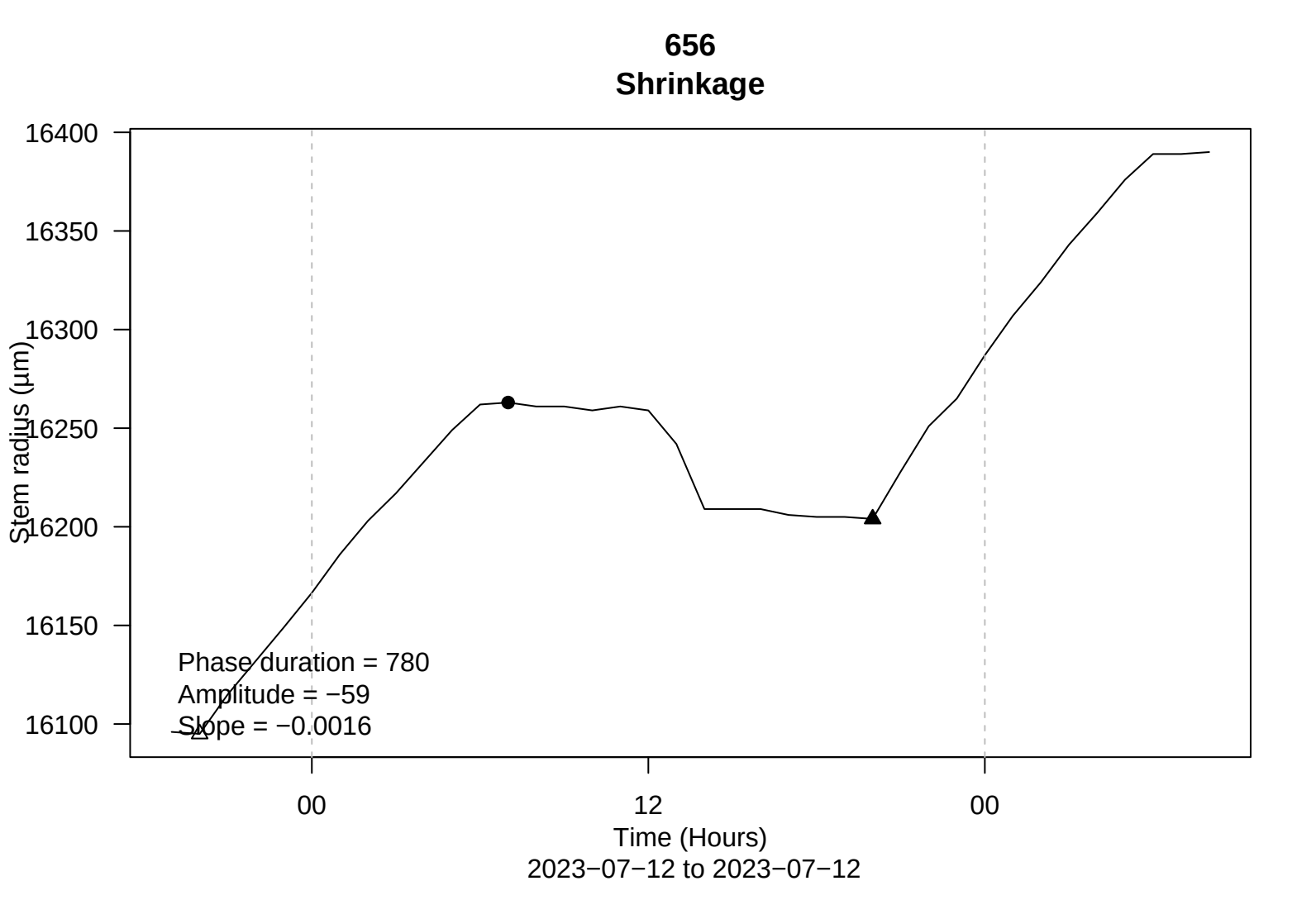

656
Expansion
16000
15950
15900
15850
15800
15750
Stem radius (µm)
Phase duration = 1260
Amplitude = 197
Slope = 0.0034
00
12
00
12
Time (Hours)
2023−07−09 to 2023−07−10

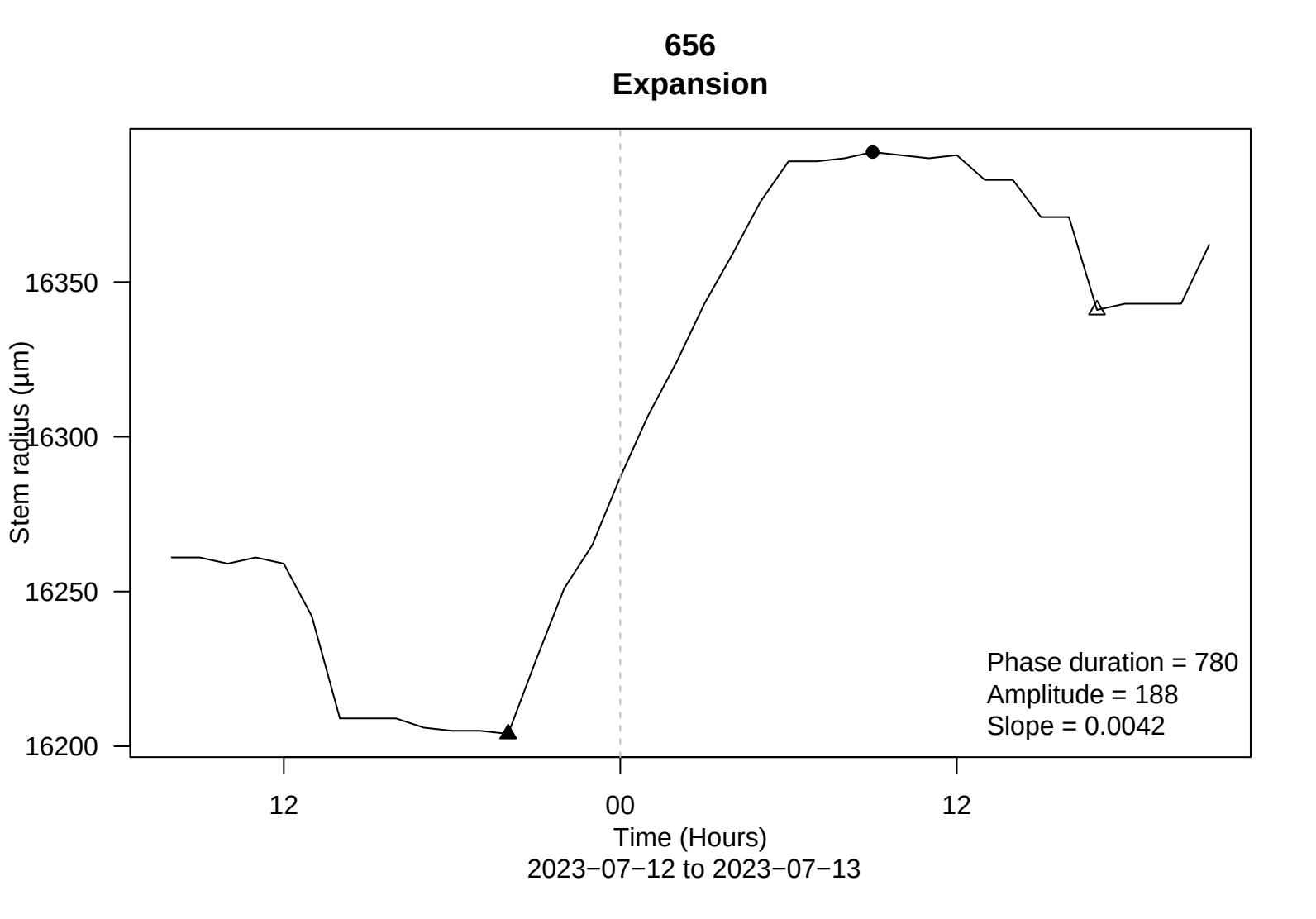

656
Shrinkage
16150
16100
16050
16000
15950
15900
Stem radius (µm)
Phase duration = 480
Amplitude = −63
Slope = −0.0026
00
12
00
Time (Hours)
2023−07−10 to 2023−07−10

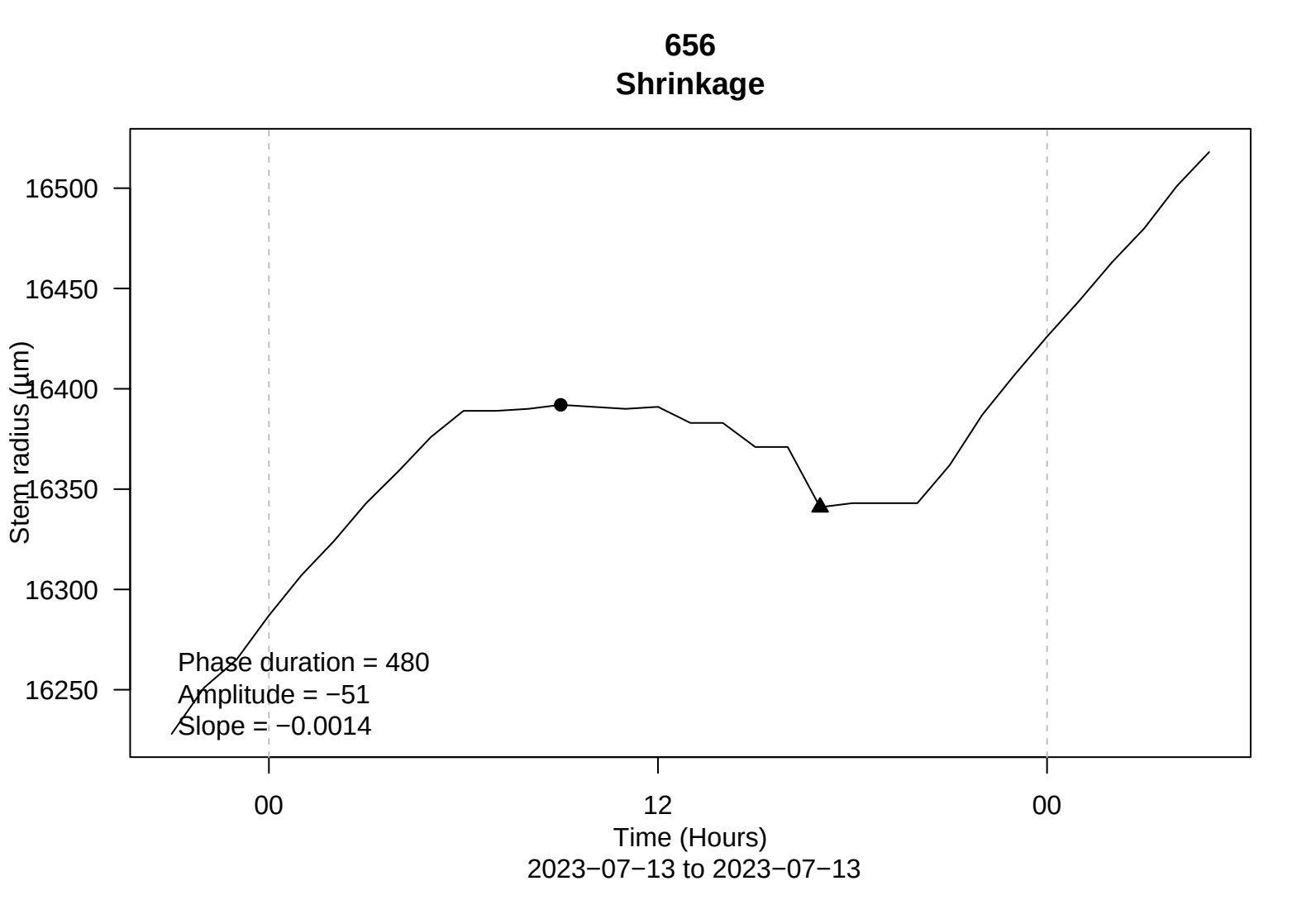

656
Expansion
16150
16100
16050
16000
Stem radius (µm)
Phase duration = 900
Amplitude = 194
Slope = 0.0043
12
00
12
Time (Hours)
2023−07−10 to 2023−07−11

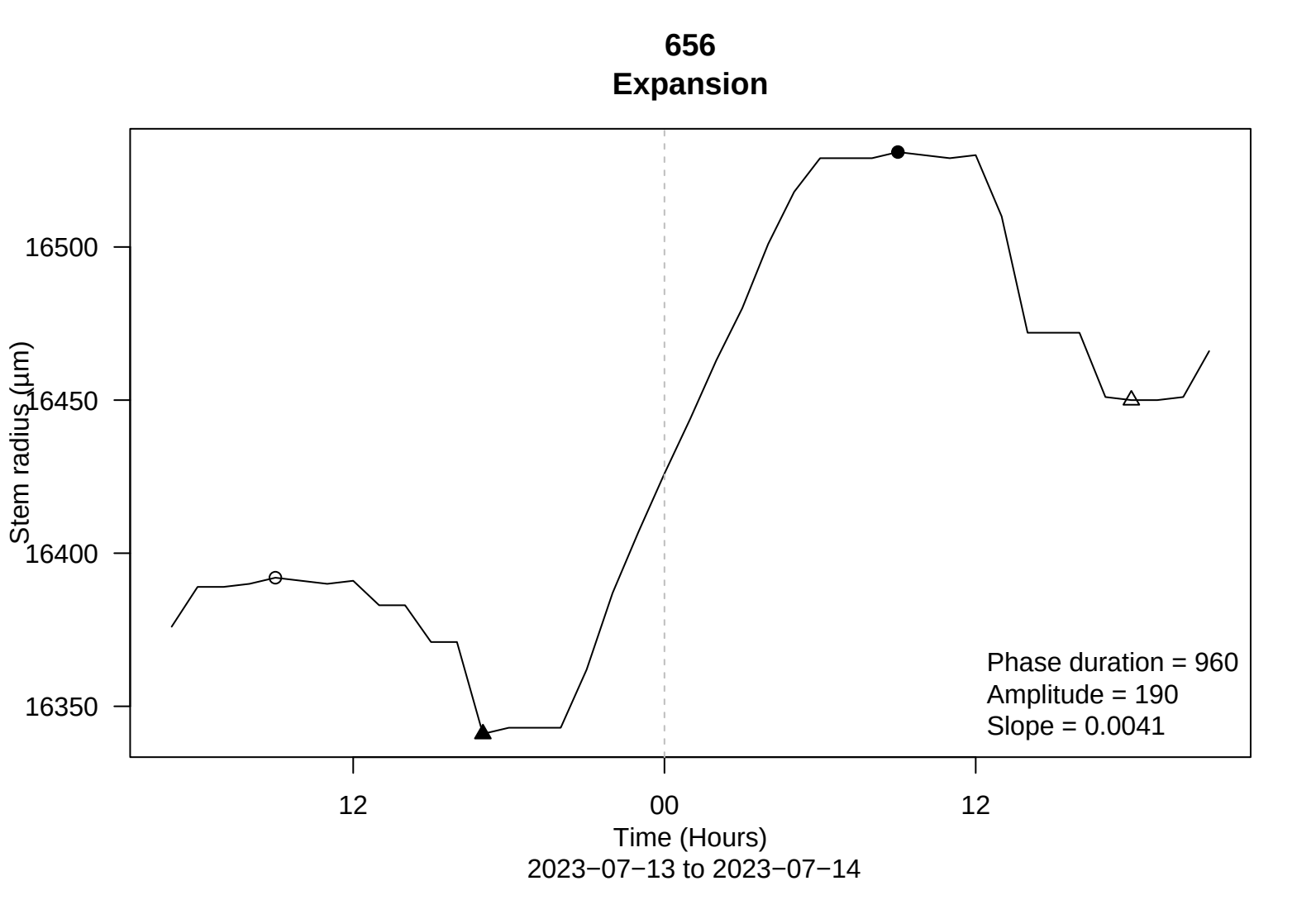

656
Shrinkage
16250
16200
16150
16100
16050
16000
Stem radius (µm)
Phase duration = 660
Amplitude = −65
Slope = −0.0021
00
12
00
Time (Hours)
2023−07−11 to 2023−07−11

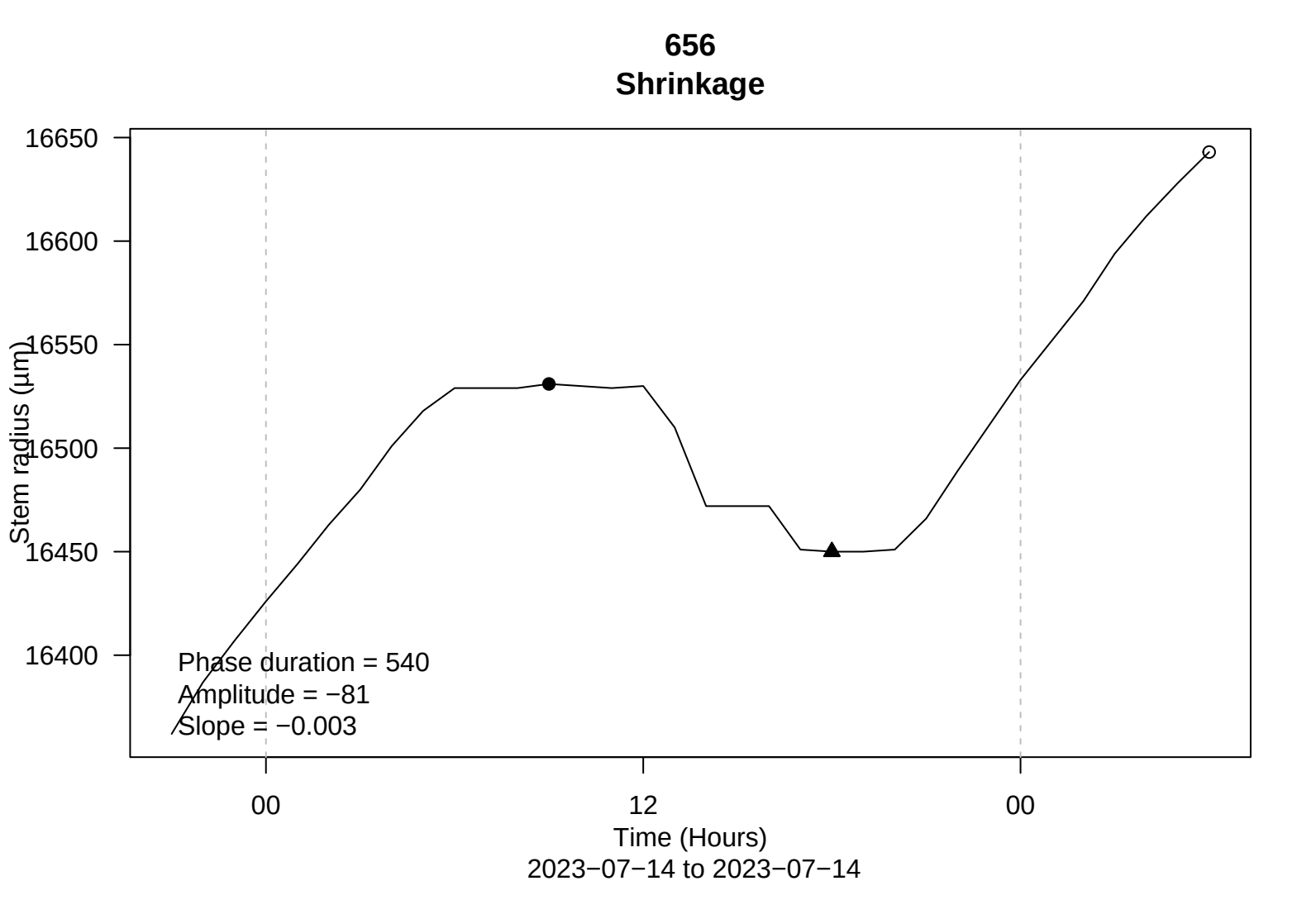

656
Expansion
16250
16200
16150
16100
Stem radius (µm)
Phase duration = 660
Amplitude = 168
Slope = 0.0044
12
00
12
Time (Hours)
2023−07−11 to 2023−07−12

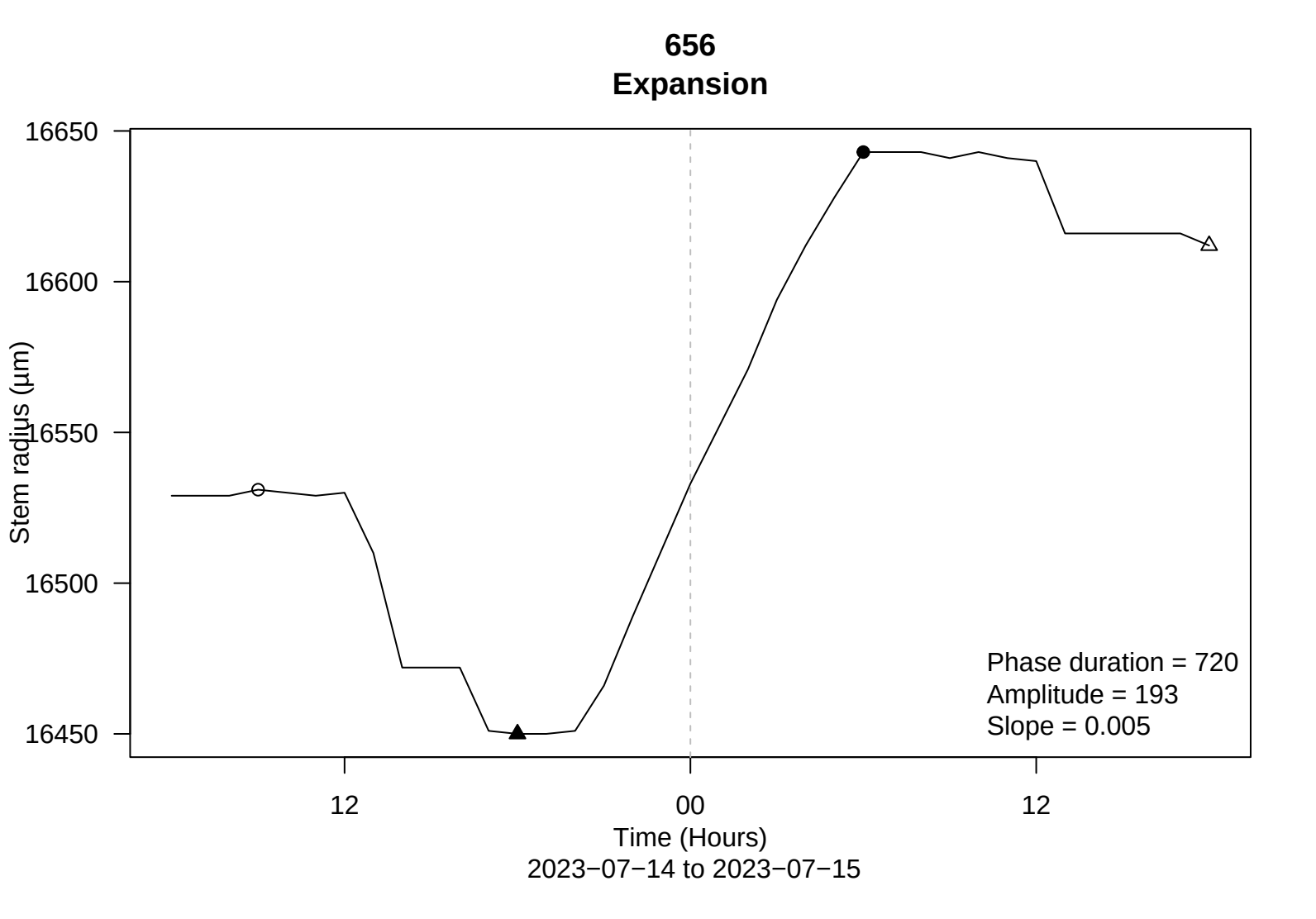

656
Shrinkage
16400
16350
16300
16250
16200
16150
16100
Stem radius (µm)
Phase duration = 780
Amplitude = −59
Slope = −0.0016
00
12
00
Time (Hours)
2023−07−12 to 2023−07−12

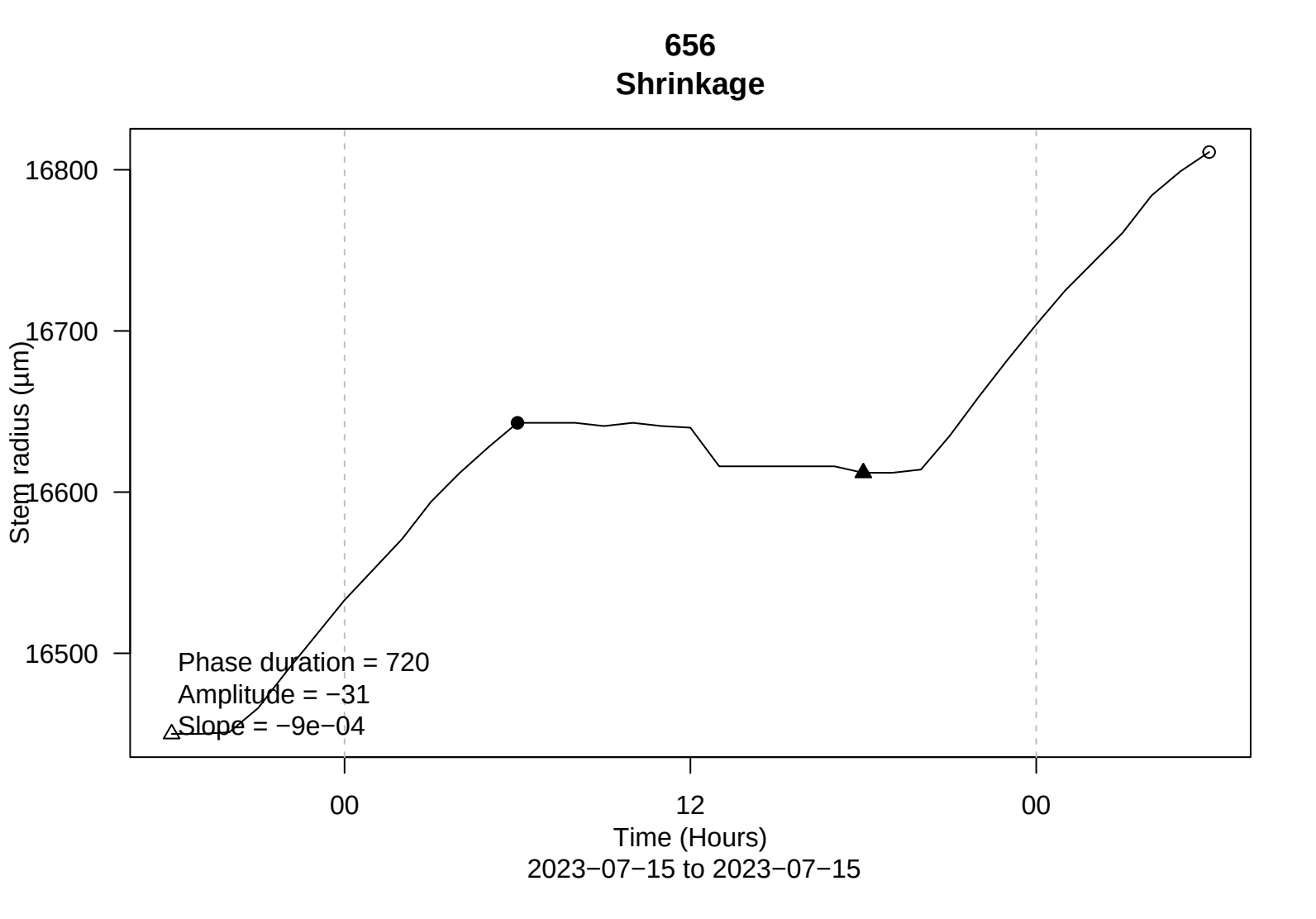

656
Expansion
16350
16300
16250
16200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−12 to 2023−07−13
Phase duration = 780
Amplitude = 188
Slope = 0.0042

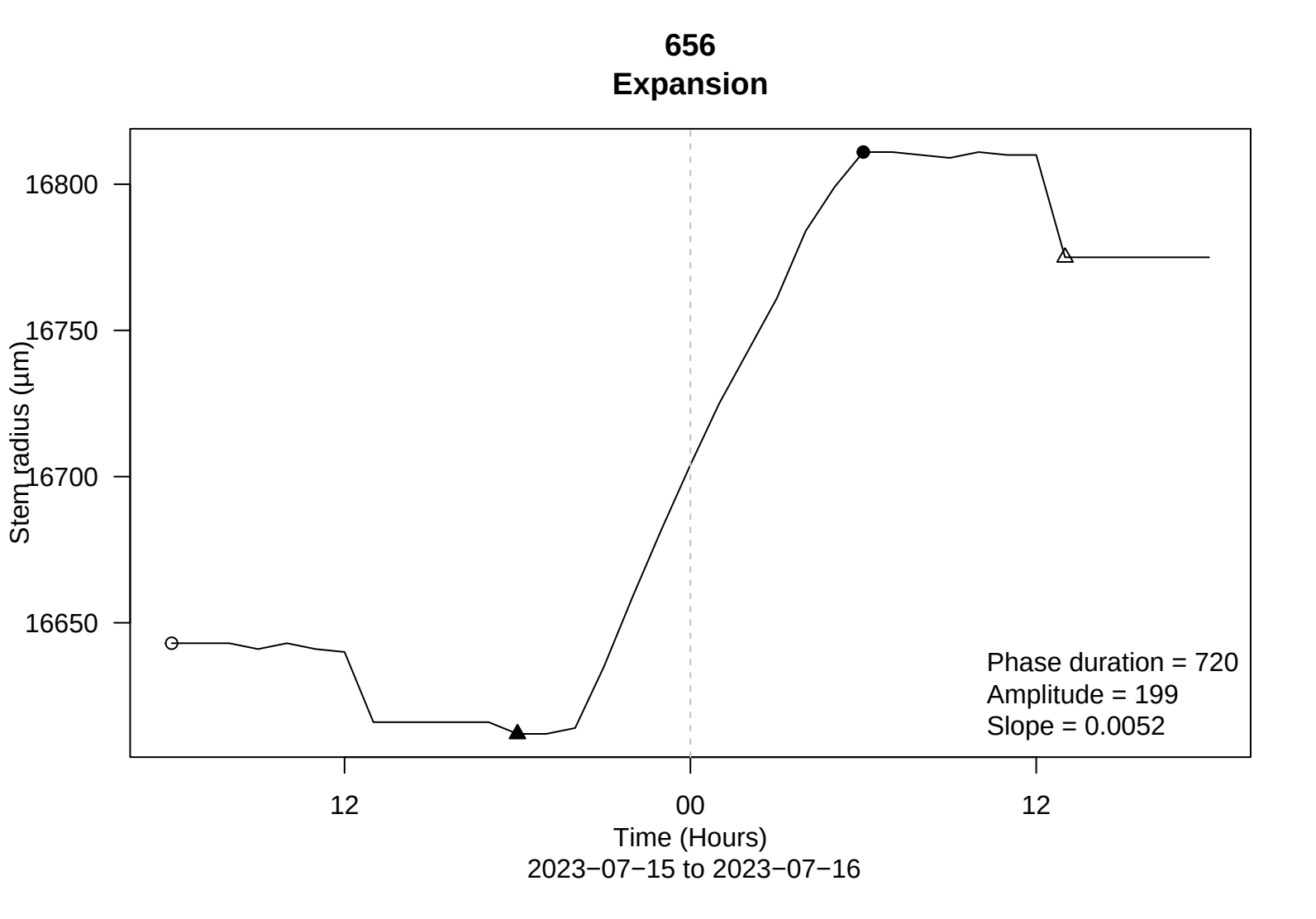

656
Shrinkage
16500
16450
16400
16350
16300
16250
Stem radius (µm)
Phase duration = 480
Amplitude = −51
Slope = −0.0014
00
12
00
Time (Hours)
2023−07−13 to 2023−07−13

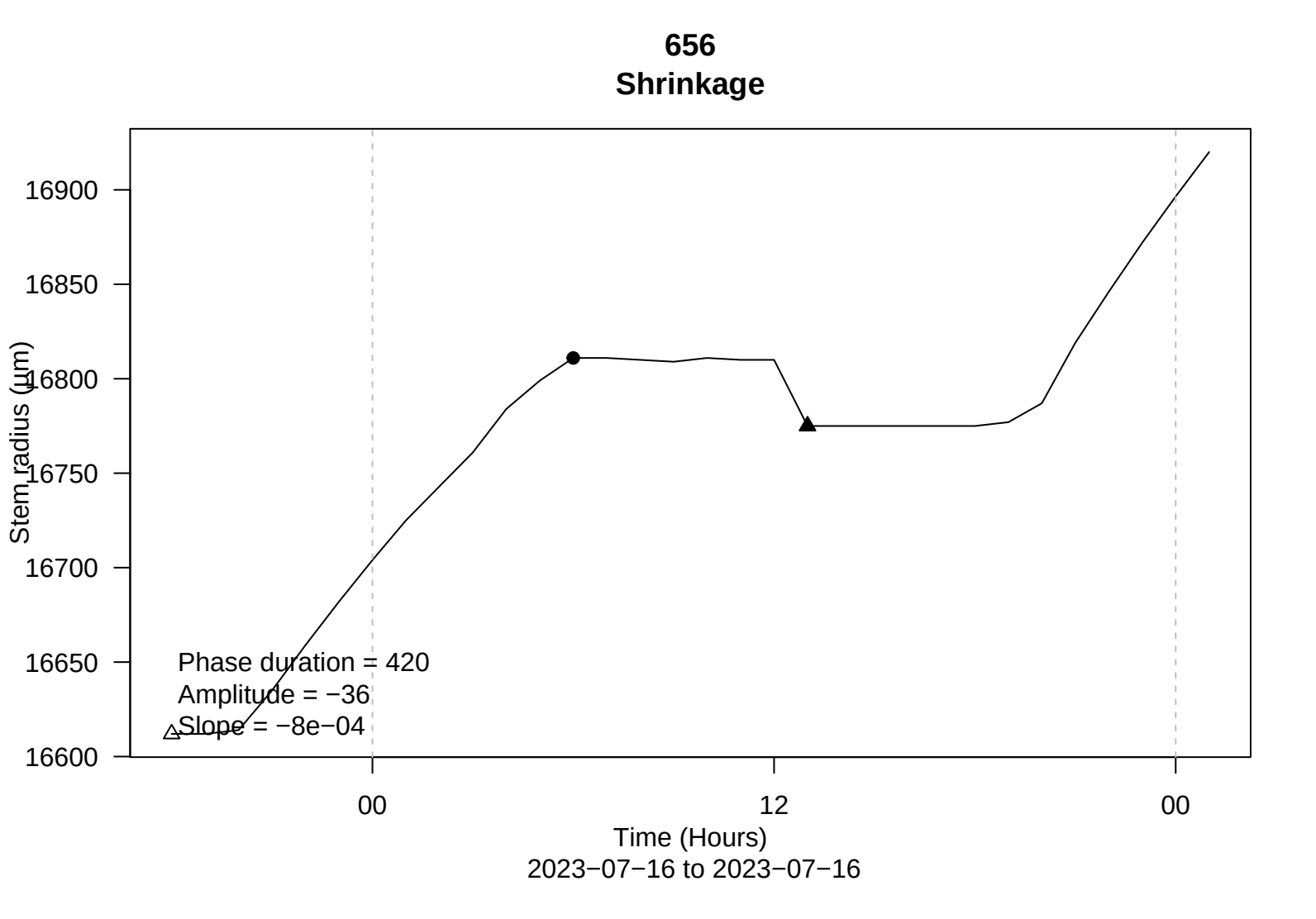

656
Expansion
16500
16450
16400
16350
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−13 to 2023−07−14
Phase duration = 960
Amplitude = 190
Slope = 0.0041

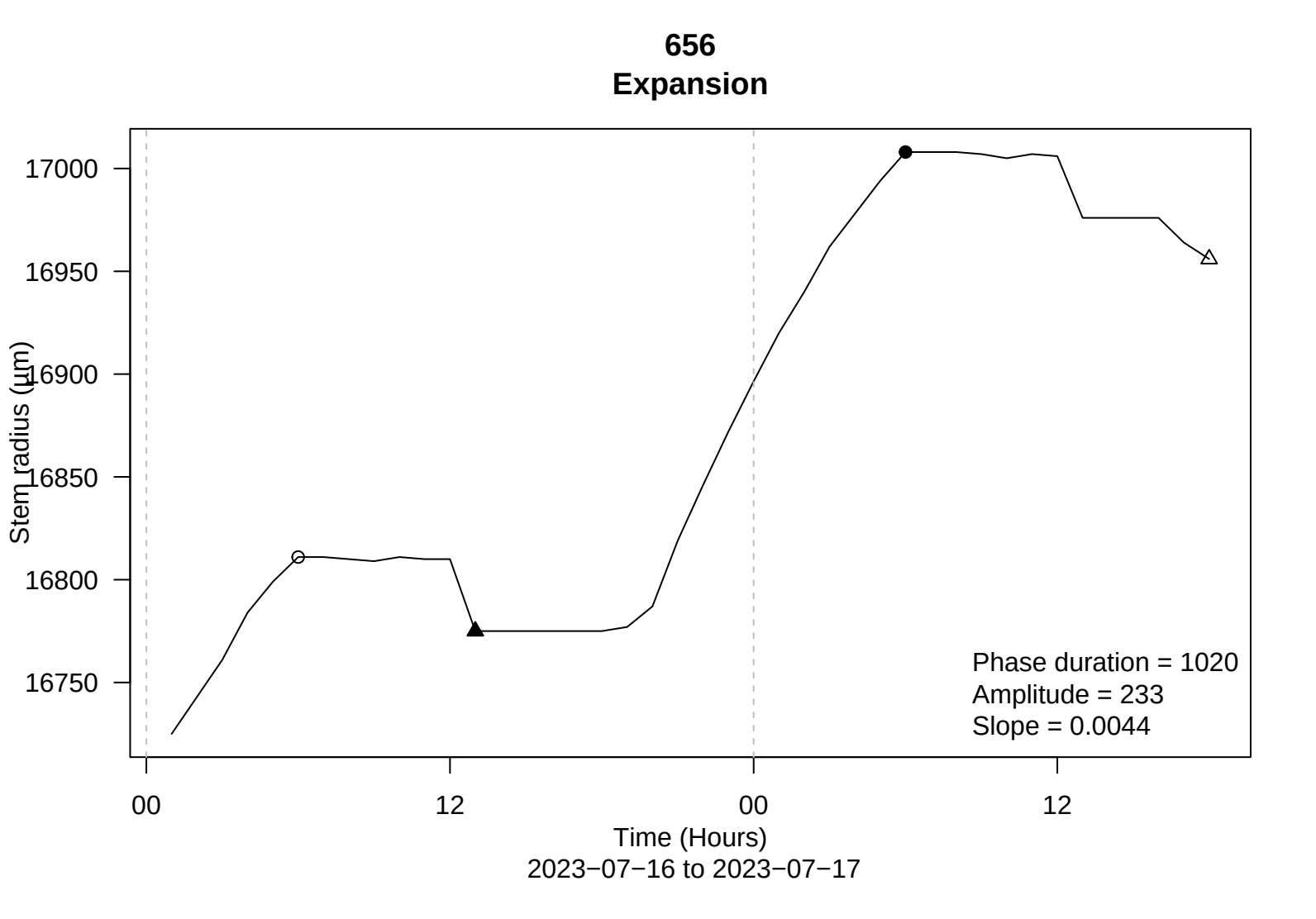

656
Shrinkage
16650
16600
16550
16500
16450
16400
Stem radius (µm)
Phase duration = 540
Amplitude = −81
Slope = −0.003
00
12
00
Time (Hours)
2023−07−14 to 2023−07−14

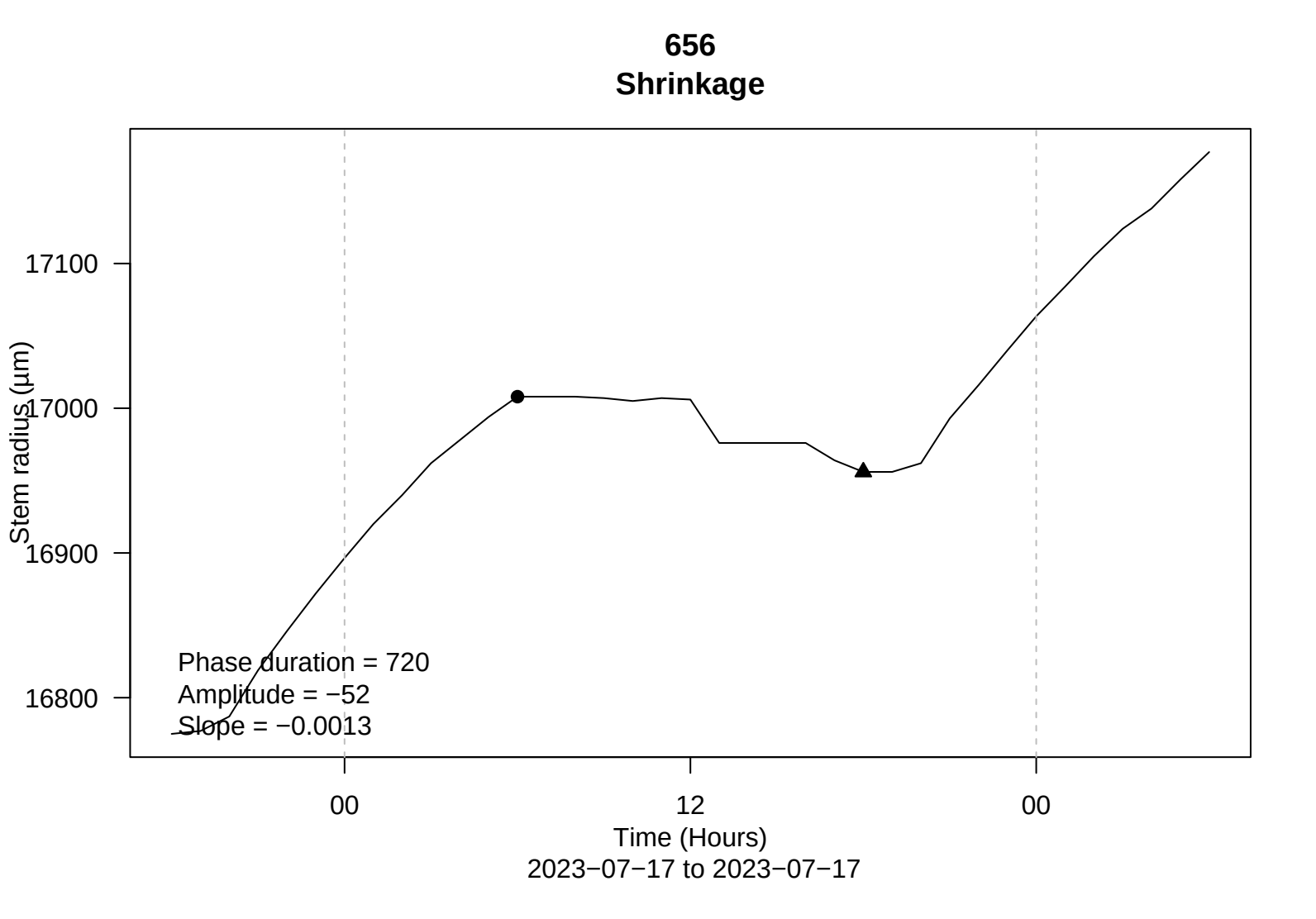

656
Expansion
16650
16600
16550
16500
16450
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−14 to 2023−07−15
Phase duration = 720
Amplitude = 193
Slope = 0.005

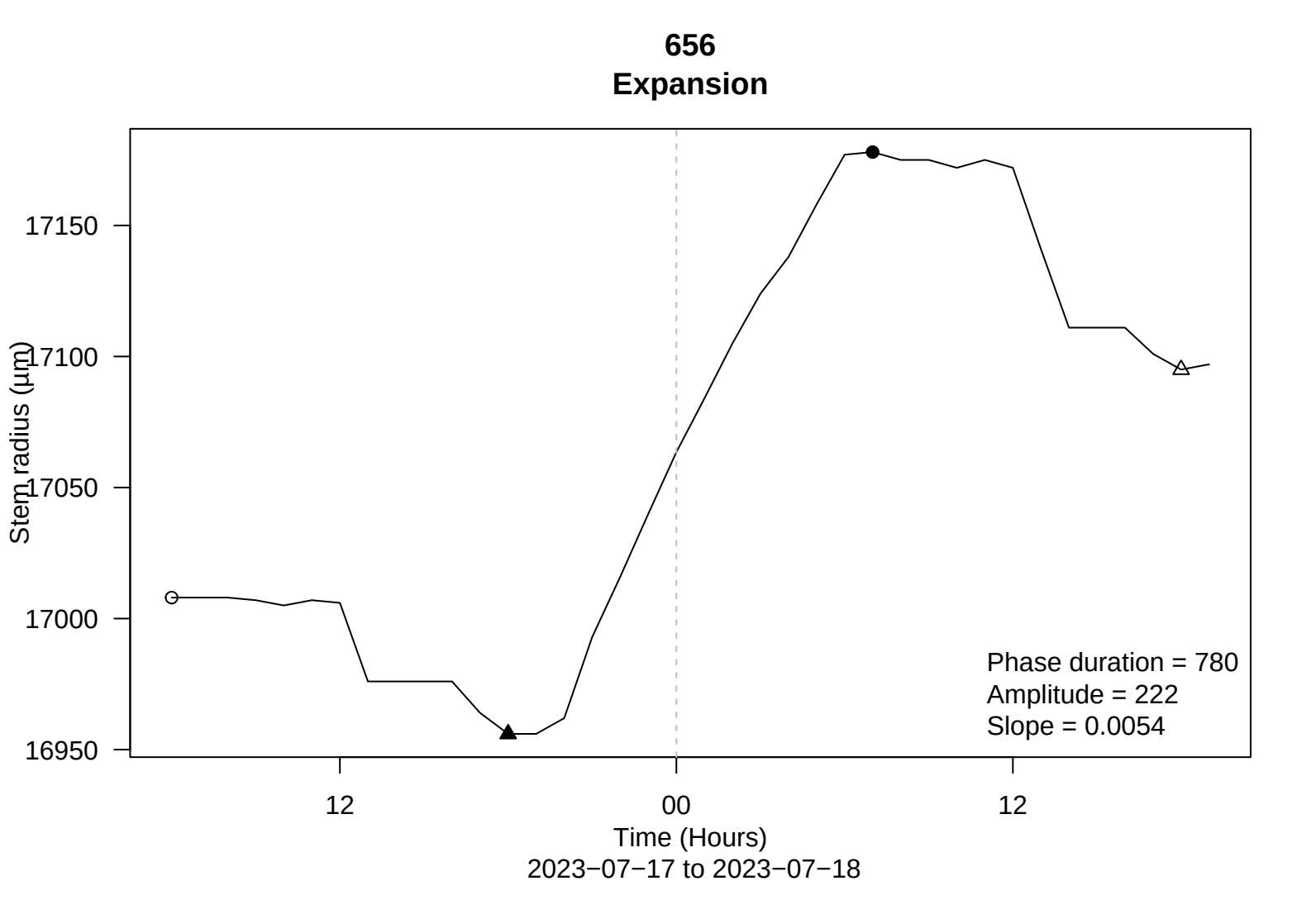

656
Shrinkage
16800
16700
16600
16500
Stem radius (µm)
Phase duration = 720
Amplitude = −31
Slope = −9e−04
00
12
00
Time (Hours)
2023−07−15 to 2023−07−15

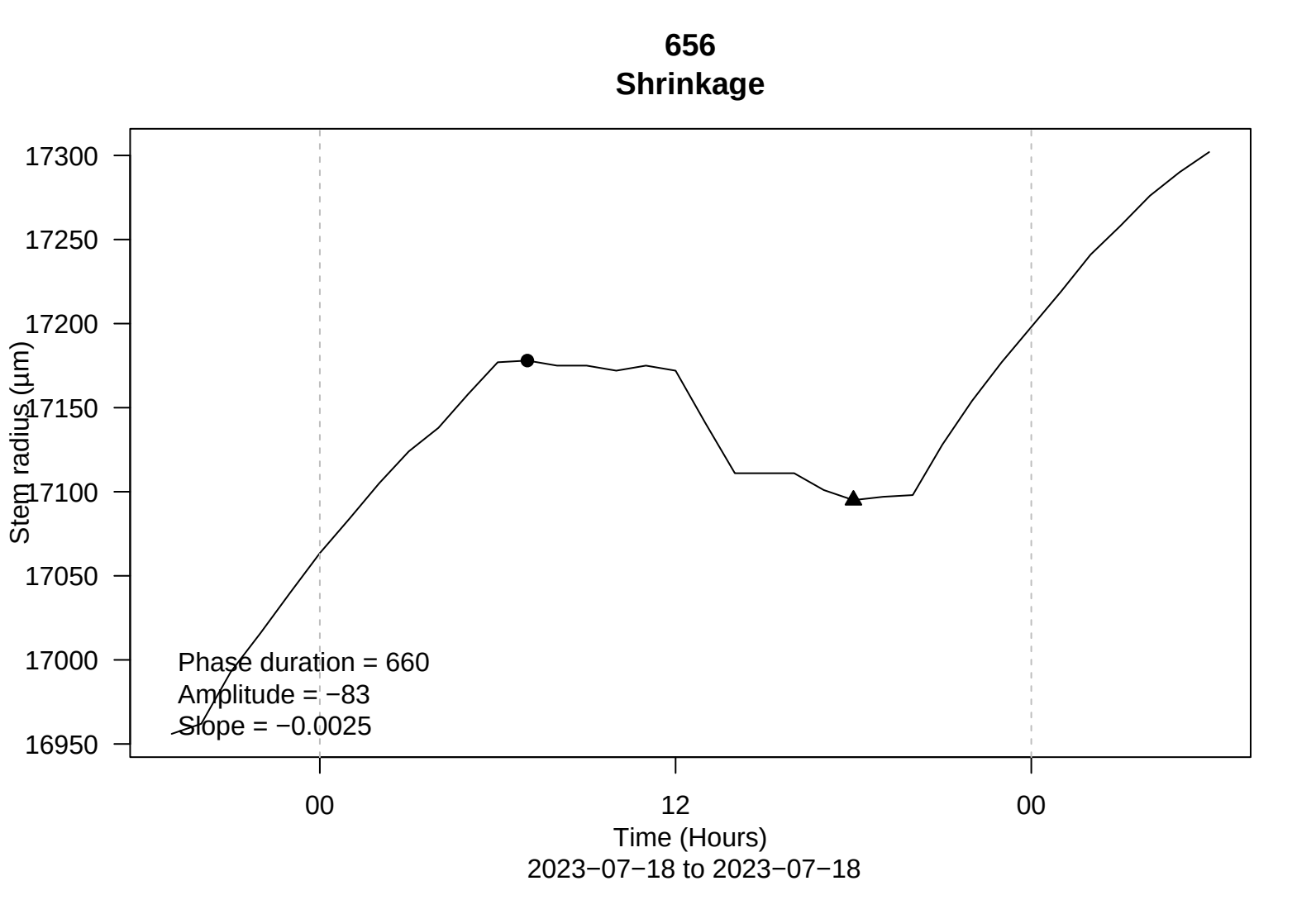

656
Expansion
16800
16750
16700
16650
Stem radius (µm)
Phase duration = 720
Amplitude = 199
Slope = 0.0052
12
00
12
Time (Hours)
2023−07−15 to 2023−07−16

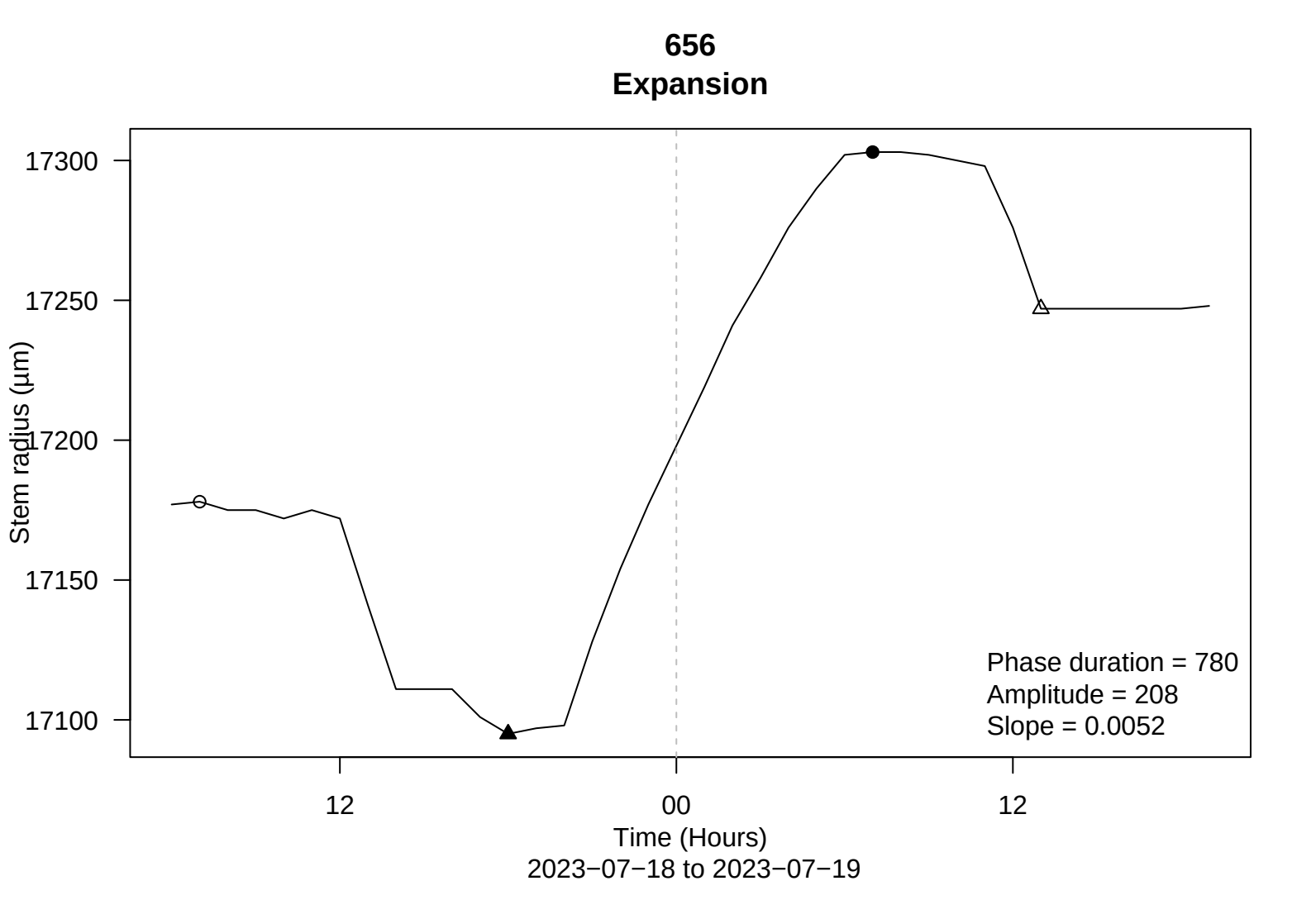

656
Shrinkage
16900
16850
16800
16750
16700
16650
16600
Stem radius (µm)
Phase duration = 420
Amplitude = −36
Slope = −8e−04
00
12
00
Time (Hours)
2023−07−16 to 2023−07−16

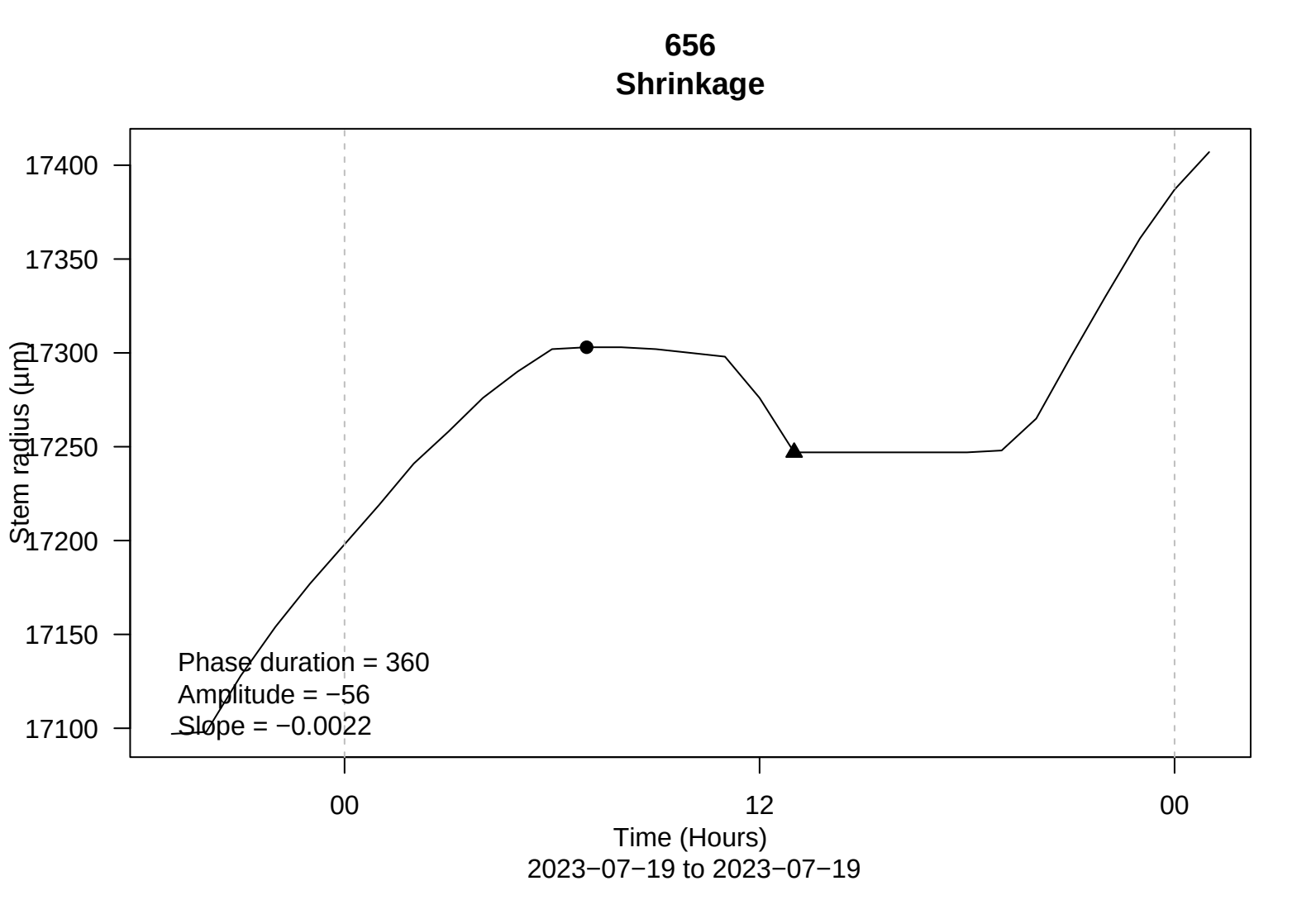

656
Expansion
17000
16950
16900
16850
16800
16750
Stem radius (µm)
Phase duration = 1020
Amplitude = 233
Slope = 0.0044
00
12
00
12
Time (Hours)
2023−07−16 to 2023−07−17

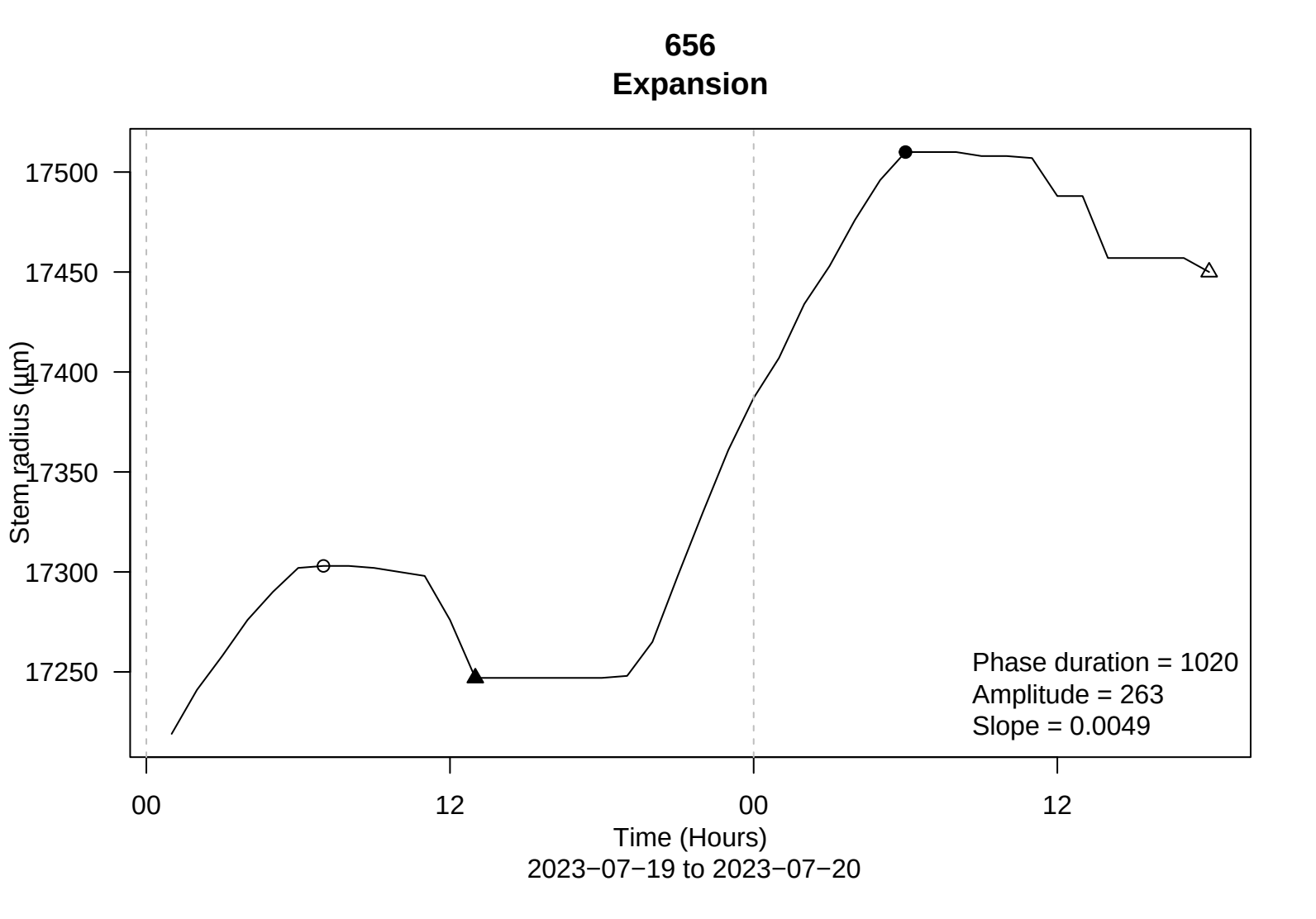

656
Shrinkage
17100
17000
16900
16800
Stem radius (µm)
Phase duration = 720
Amplitude = −52
Slope = −0.0013
00
12
00
Time (Hours)
2023−07−17 to 2023−07−17

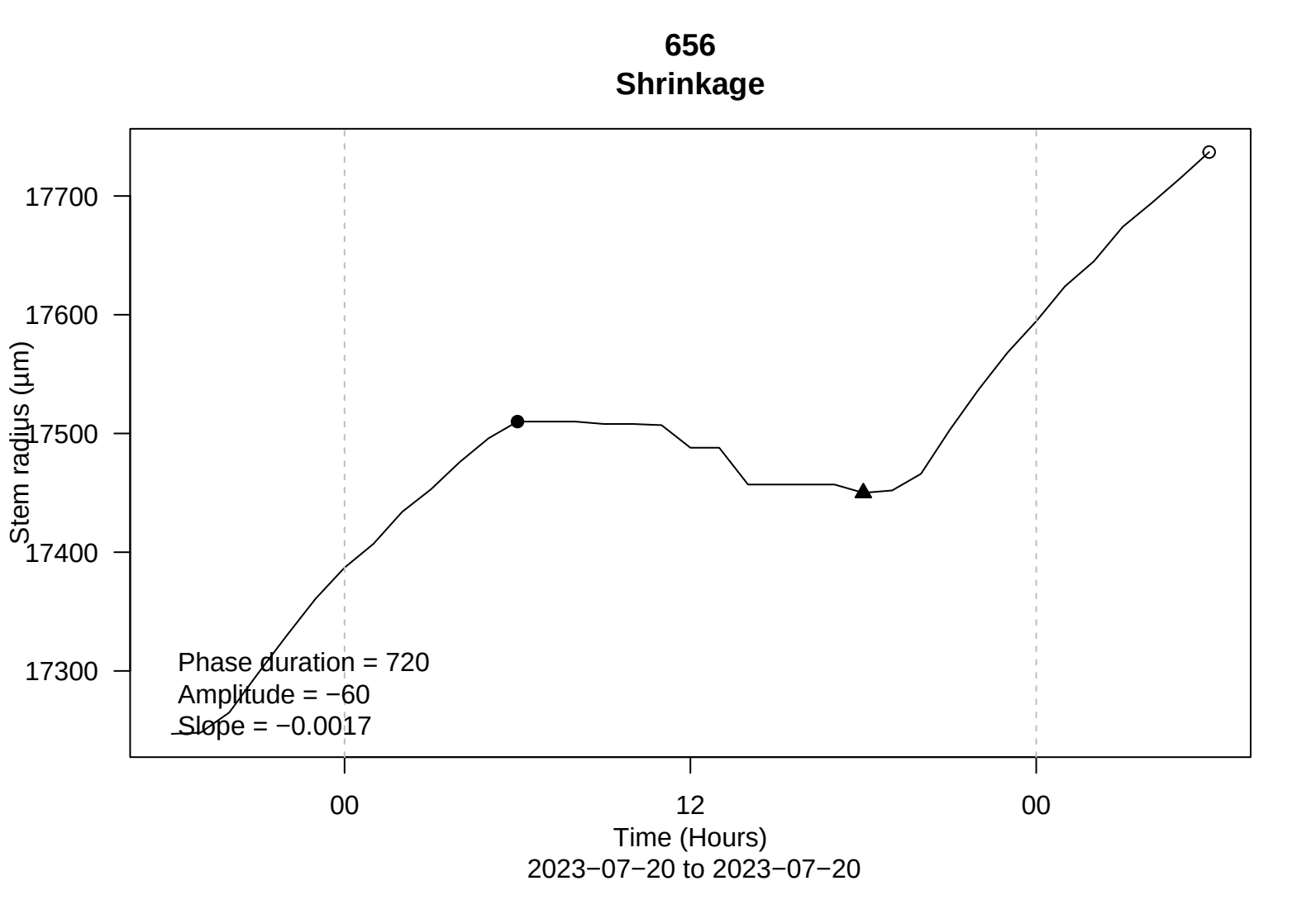

656
Expansion
17150
17100
17050
17000
16950
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−17 to 2023−07−18
Phase duration = 780
Amplitude = 222
Slope = 0.0054

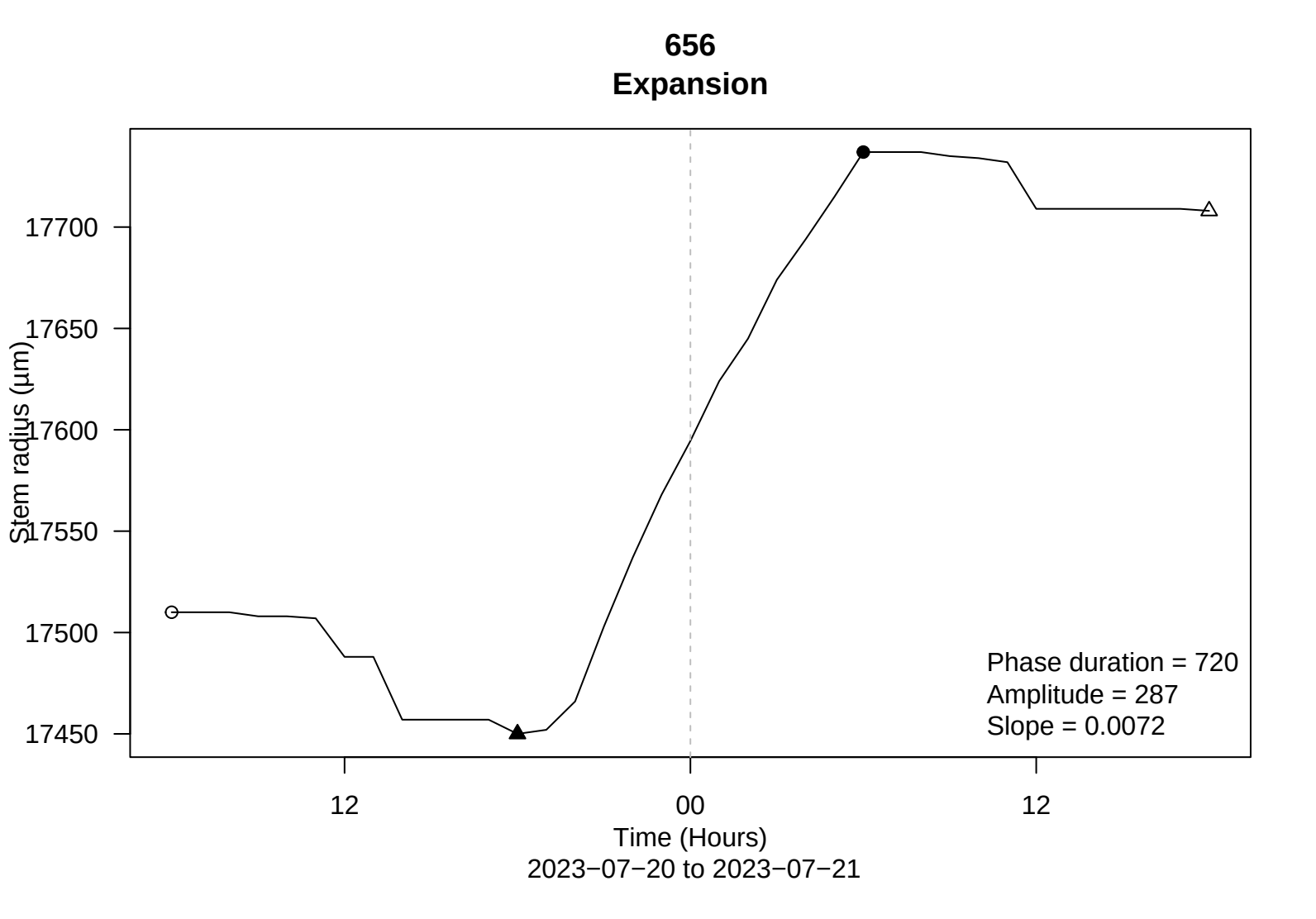

656
Shrinkage
17300
17250
17200
17150
17100
17050
17000
16950
Stem radius (µm)
Phase duration = 660
Amplitude = −83
Slope = −0.0025
00
12
00
Time (Hours)
2023−07−18 to 2023−07−18

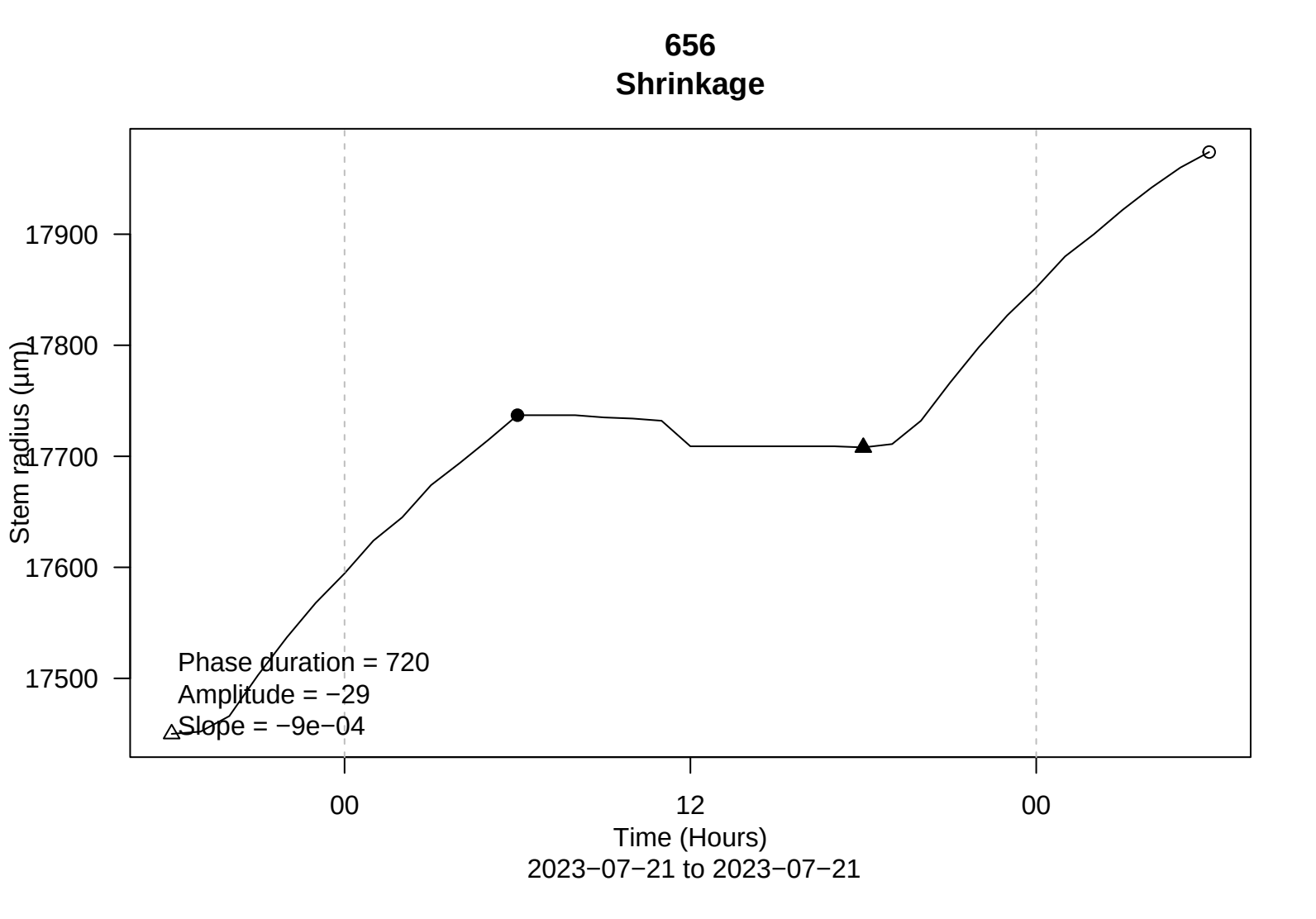

656
Expansion
17300
17250
17200
17150
17100
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−18 to 2023−07−19
Phase duration = 780
Amplitude = 208
Slope = 0.0052

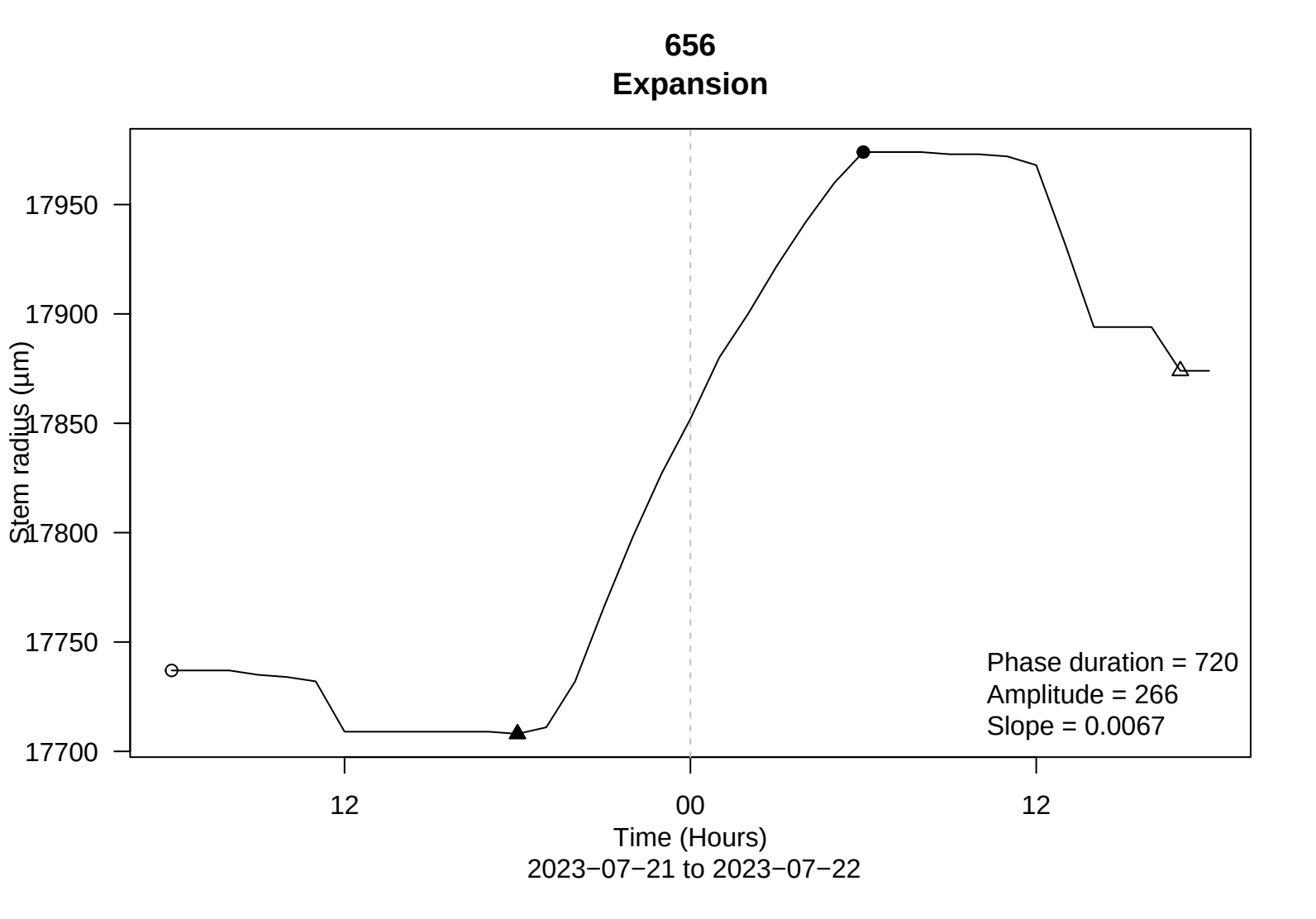

656
Shrinkage
17400
17350
17300
17250
17200
17150
17100
Stem radius (µm)
Phase duration = 360
Amplitude = −56
Slope = −0.0022
00
12
00
Time (Hours)
2023−07−19 to 2023−07−19

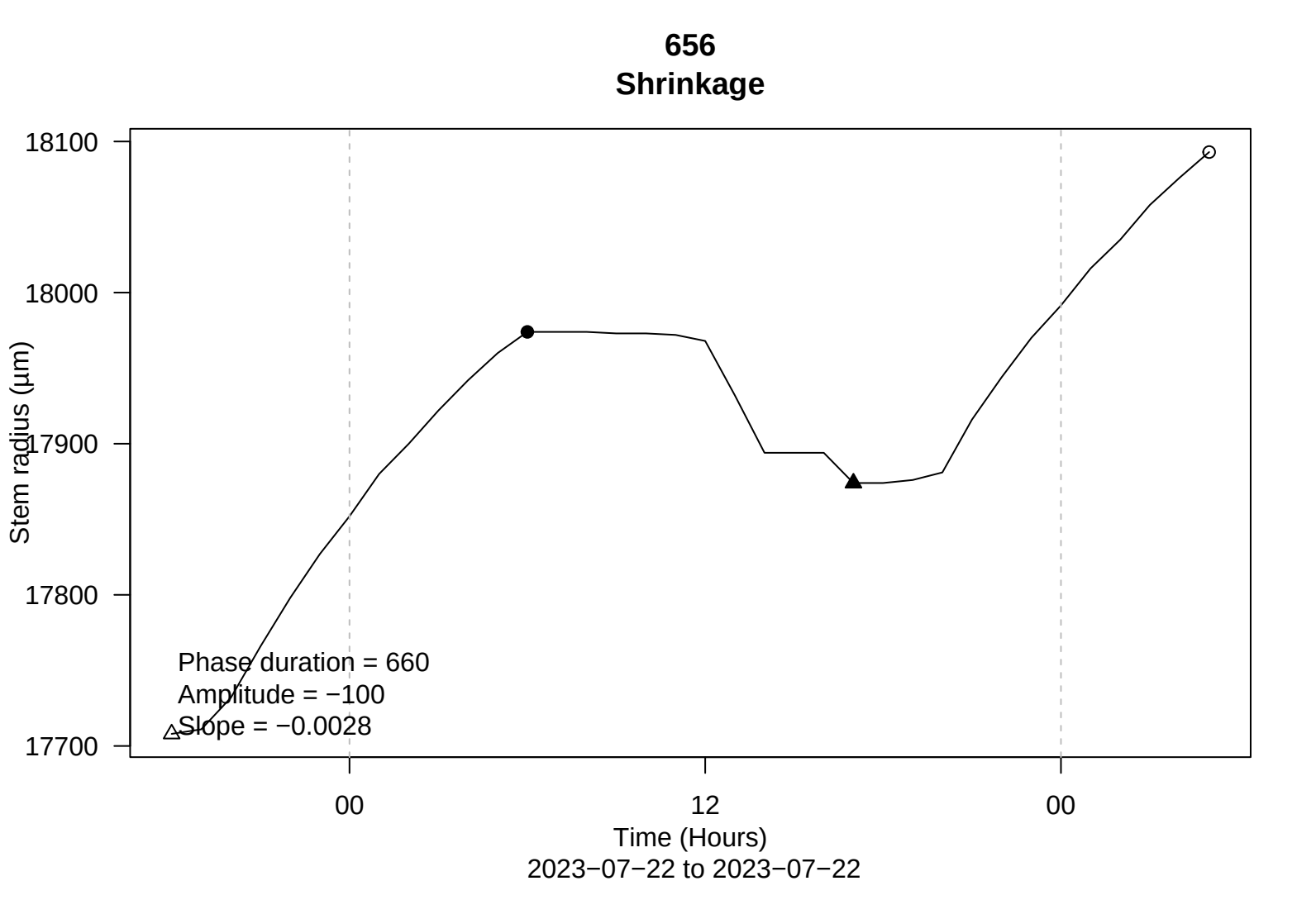

656
Expansion
17500
17450
17400
17350
17300
17250
Stem radius (µm)
Phase duration = 1020
Amplitude = 263
Slope = 0.0049
00
12
00
12
Time (Hours)
2023−07−19 to 2023−07−20

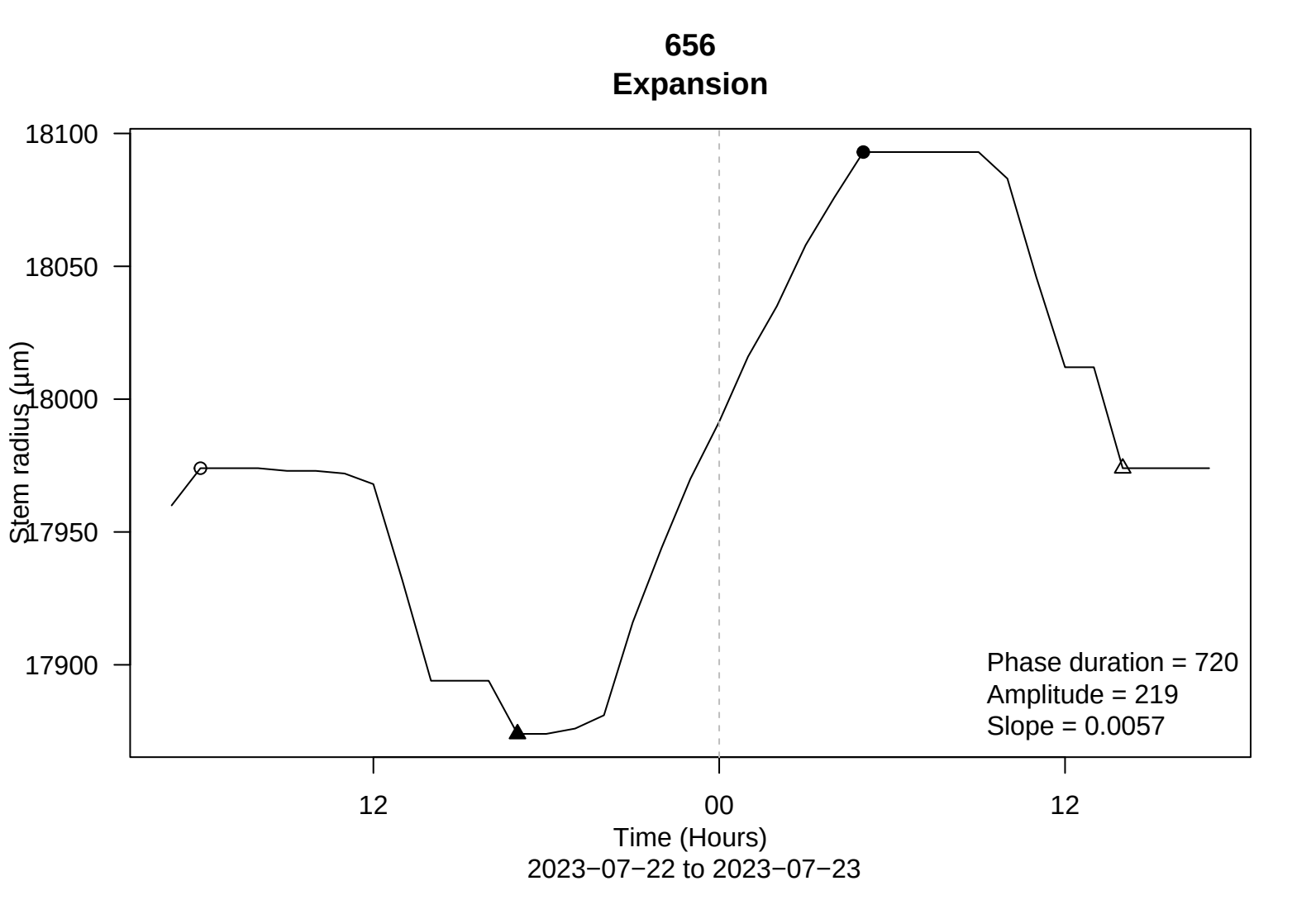

656
Shrinkage
17700
17600
17500
17400
17300
Stem radius (µm)
Phase duration = 720
Amplitude = −60
Slope = −0.0017
00
12
00
Time (Hours)
2023−07−20 to 2023−07−20

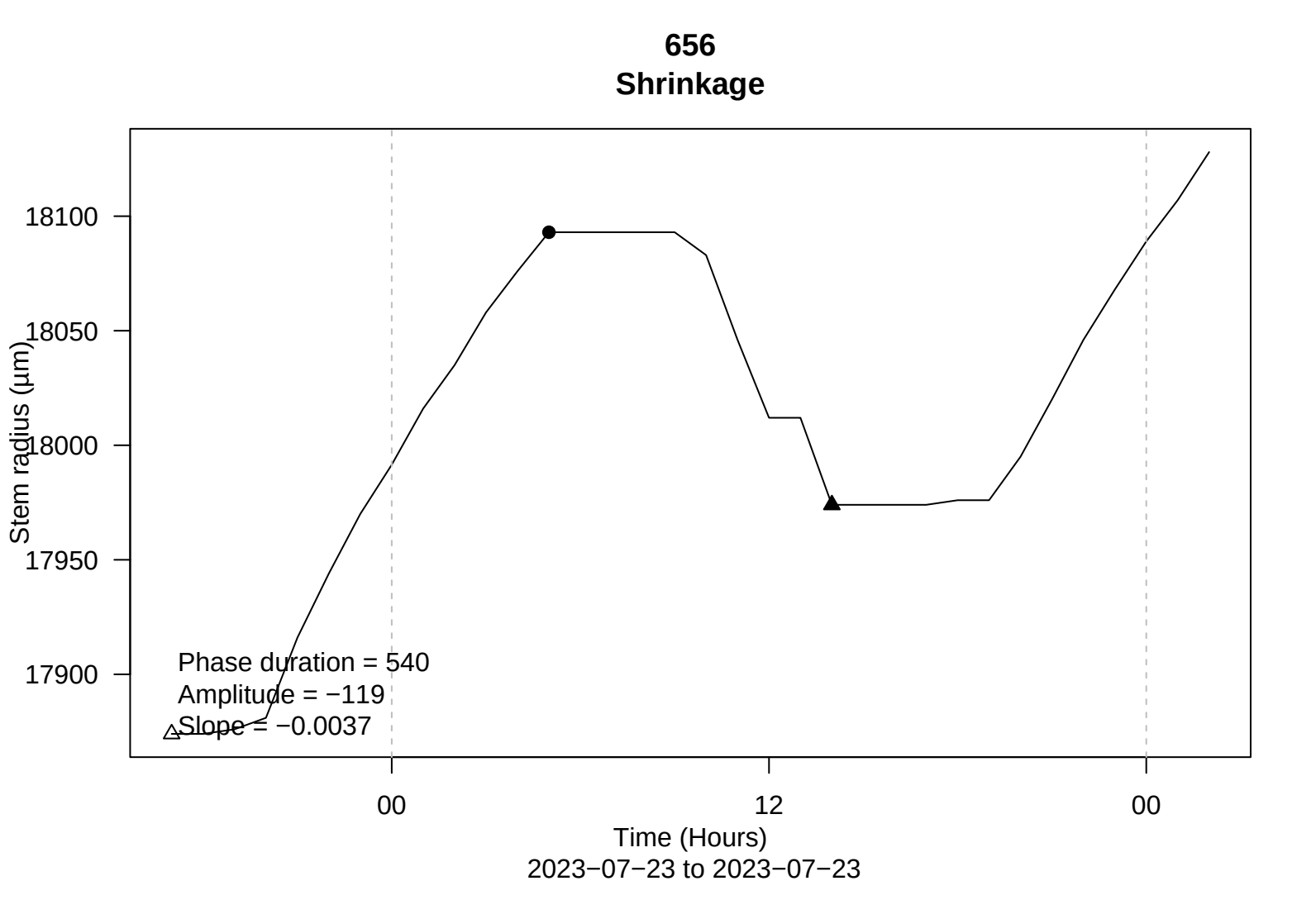

656
Expansion
17700
17650
17600
17550
17500
17450
Stem radius (µm)
Phase duration = 720
Amplitude = 287
Slope = 0.0072
12
00
12
Time (Hours)
2023−07−20 to 2023−07−21

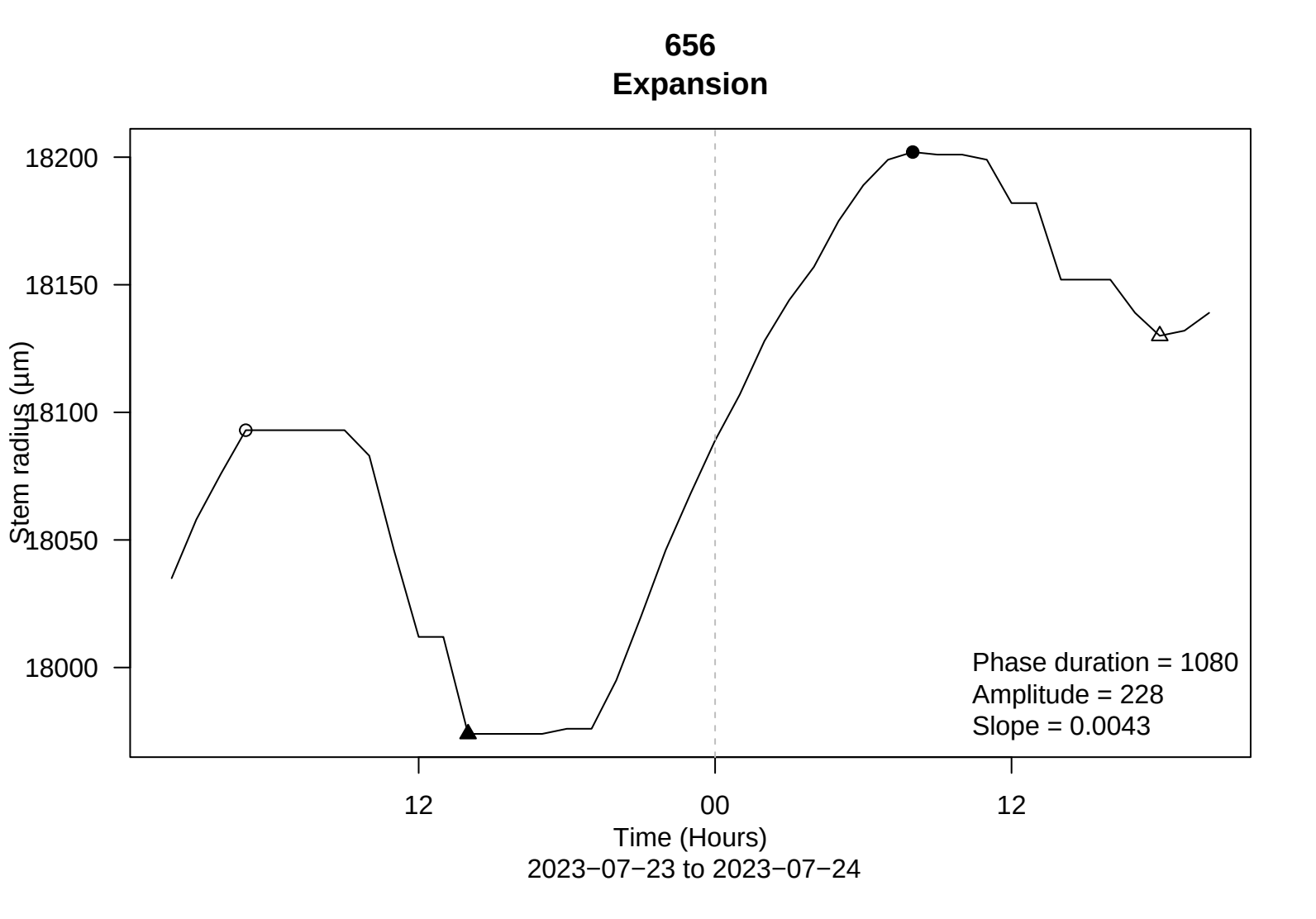

656
Shrinkage
17900
17800
17700
17600
17500
Stem radius (µm)
Phase duration = 720
Amplitude = −29
Slope = −9e−04
00
12
00
Time (Hours)
2023−07−21 to 2023−07−21

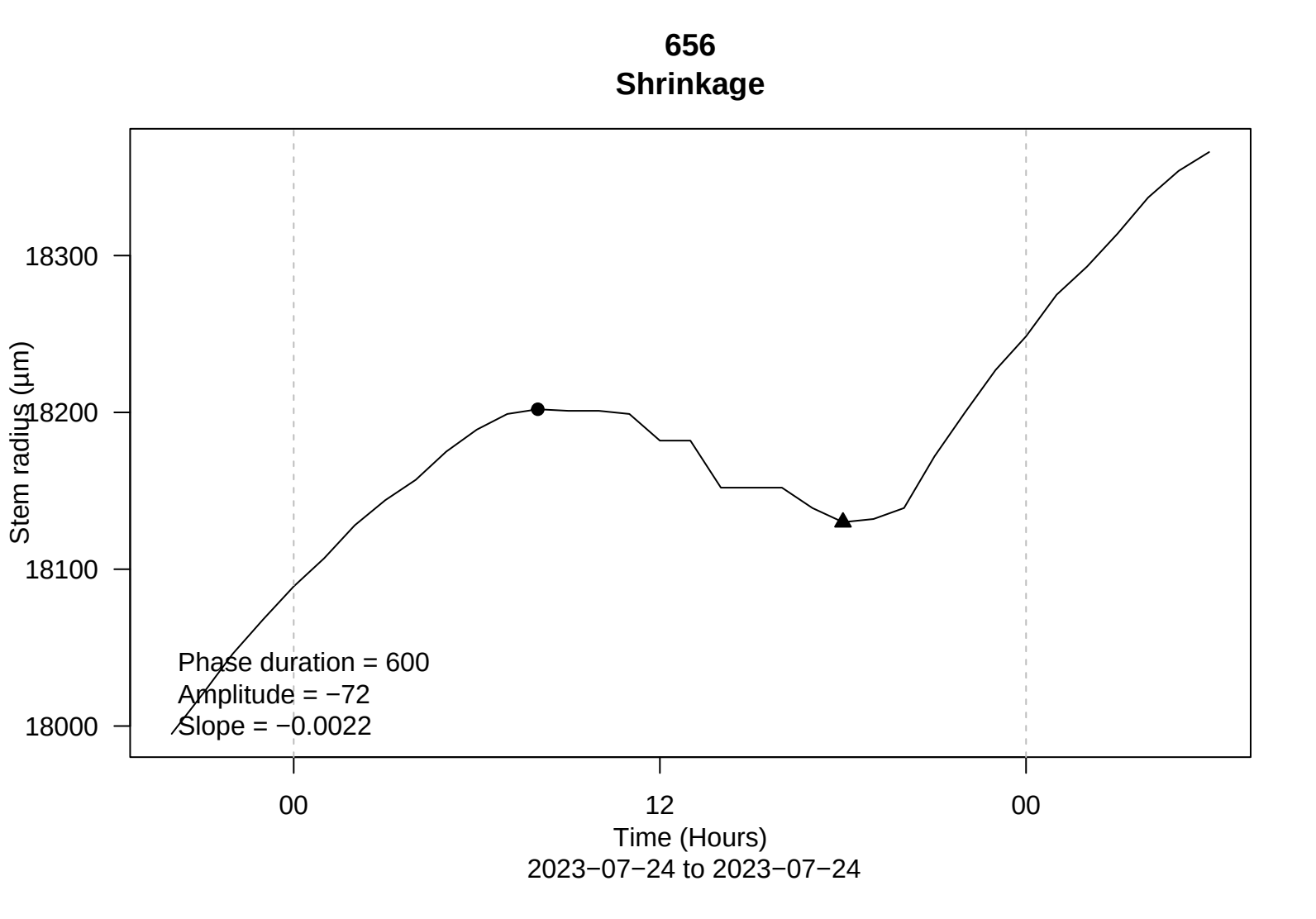

656
Expansion
17950
17900
17850
17800
17750
17700
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−21 to 2023−07−22
Phase duration = 720
Amplitude = 266
Slope = 0.0067

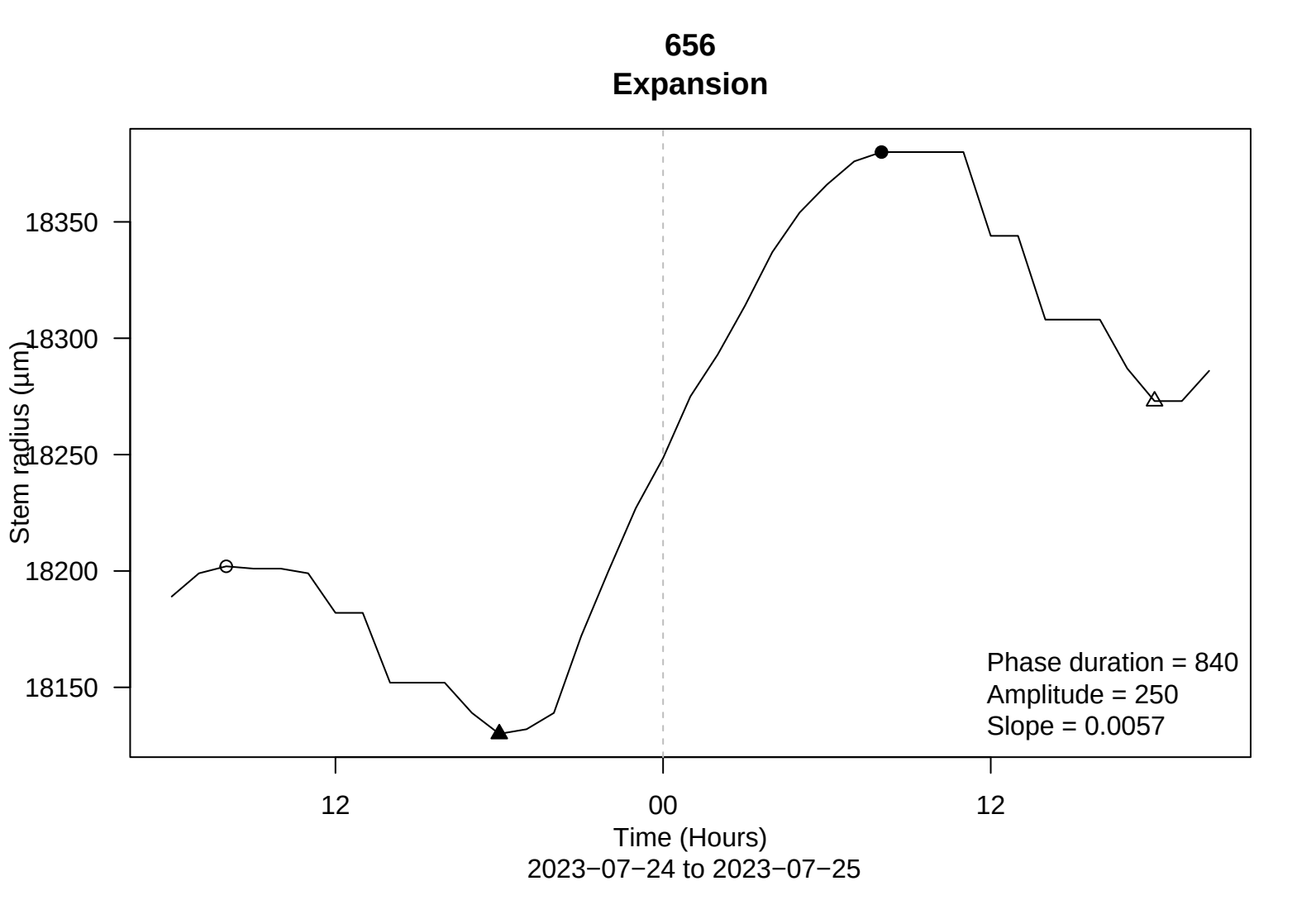

656
Shrinkage
18100
18000
17900
17800
17700
Stem radius (µm)
Phase duration = 660
Amplitude = −100
Slope = −0.0028
00
12
00
Time (Hours)
2023−07−22 to 2023−07−22

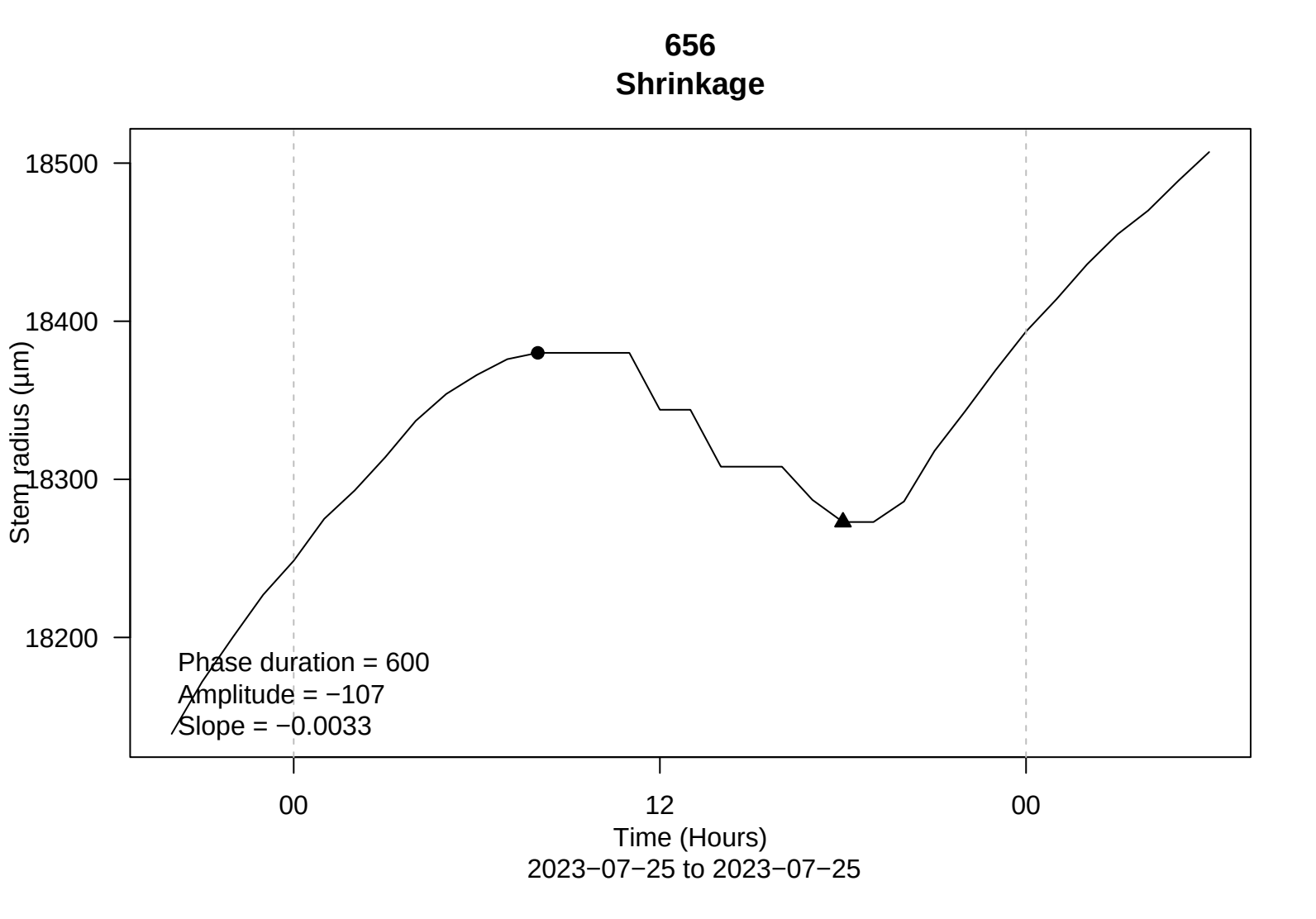

656
Expansion
18100
18050
18000
17950
17900
Stem radius (µm)
Phase duration = 720
Amplitude = 219
Slope = 0.0057
12
00
12
Time (Hours)
2023−07−22 to 2023−07−23

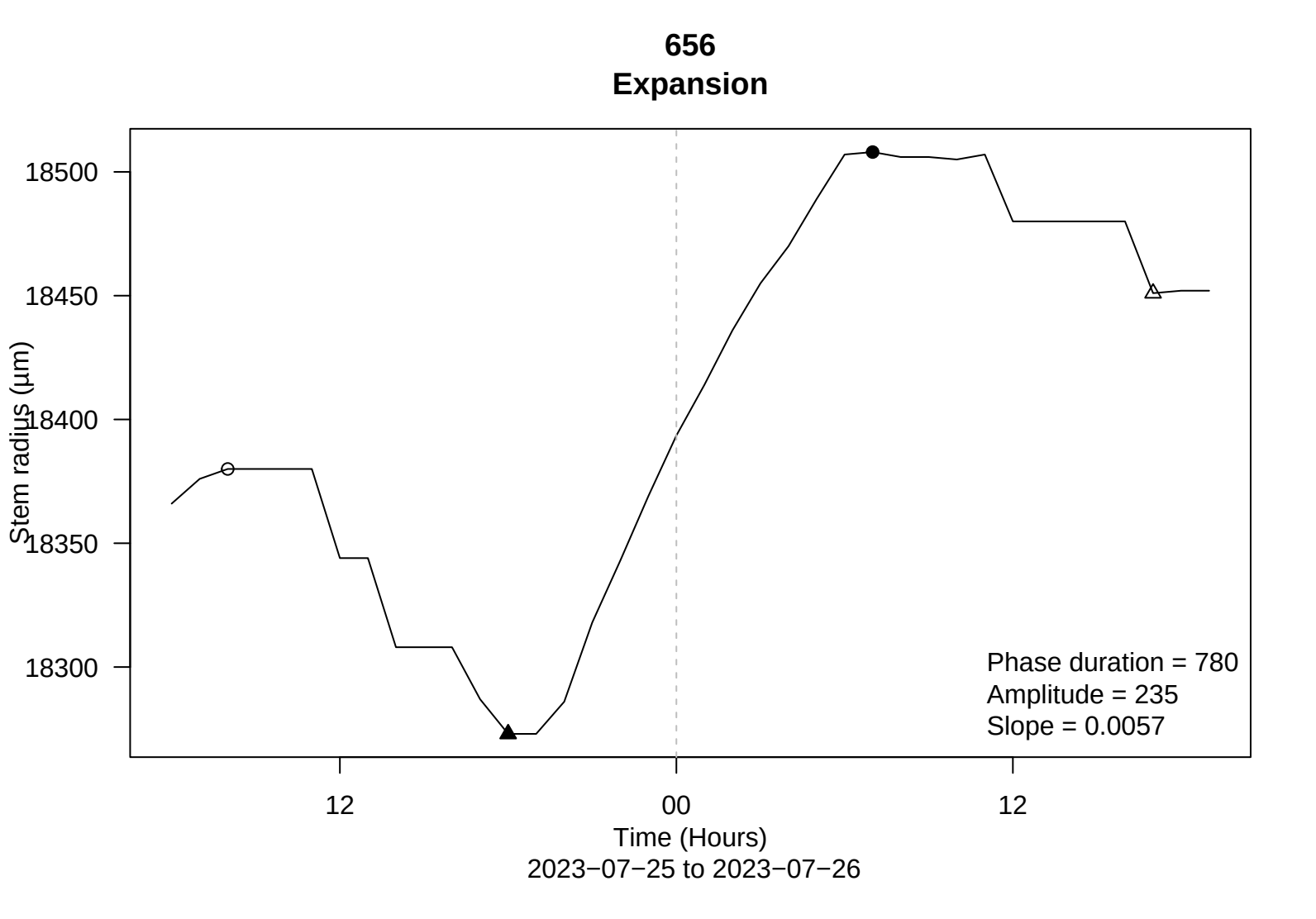

656
Shrinkage
18100
18050
18000
17950
17900
Stem radius (µm)
Phase duration = 540
Amplitude = −119
Slope = −0.0037
00
12
00
Time (Hours)
2023−07−23 to 2023−07−23

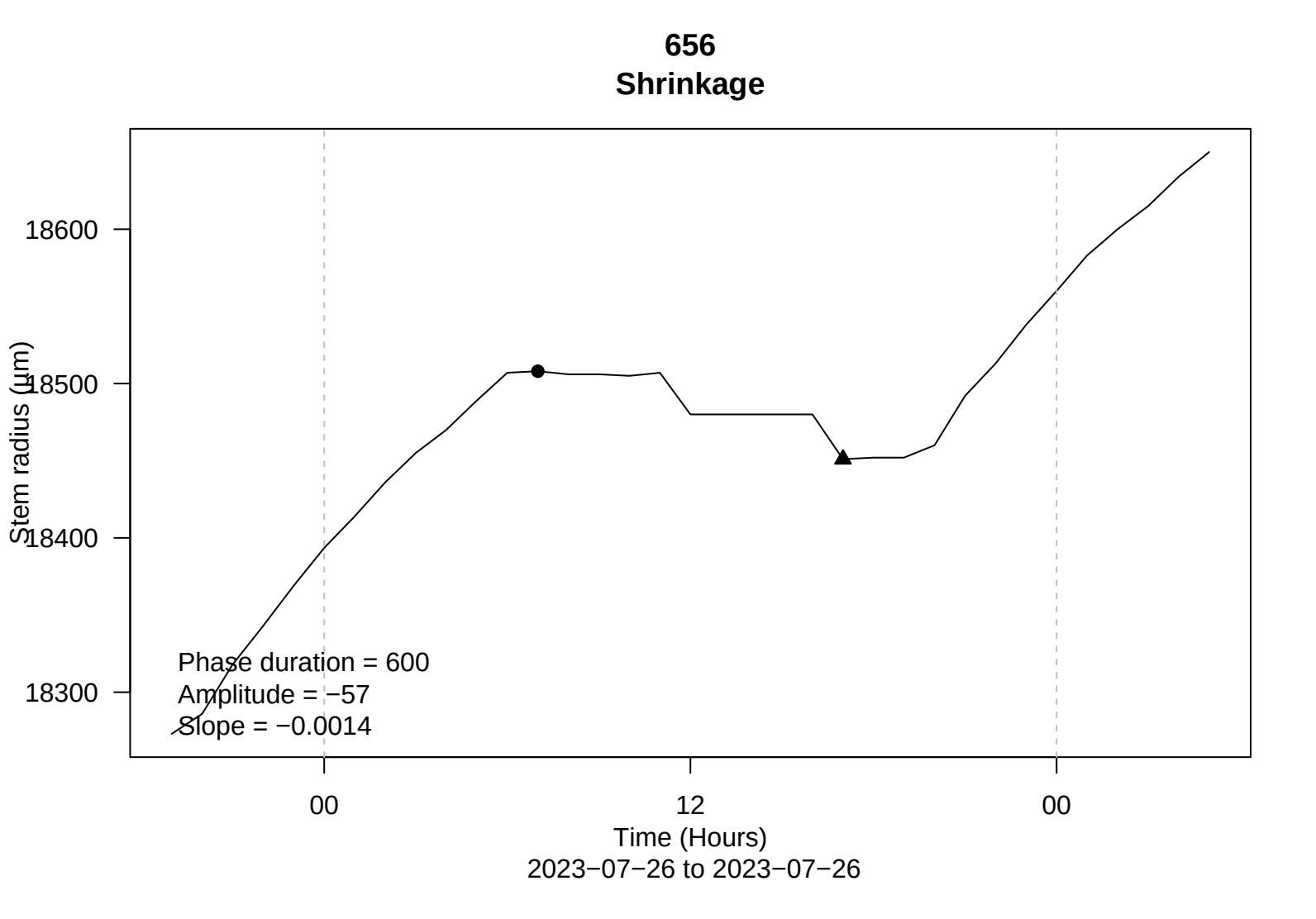

656
Expansion
18200
18150
18100
18050
18000
Stem radius (µm)
Phase duration = 1080
Amplitude = 228
Slope = 0.0043
12
00
12
Time (Hours)
2023−07−23 to 2023−07−24

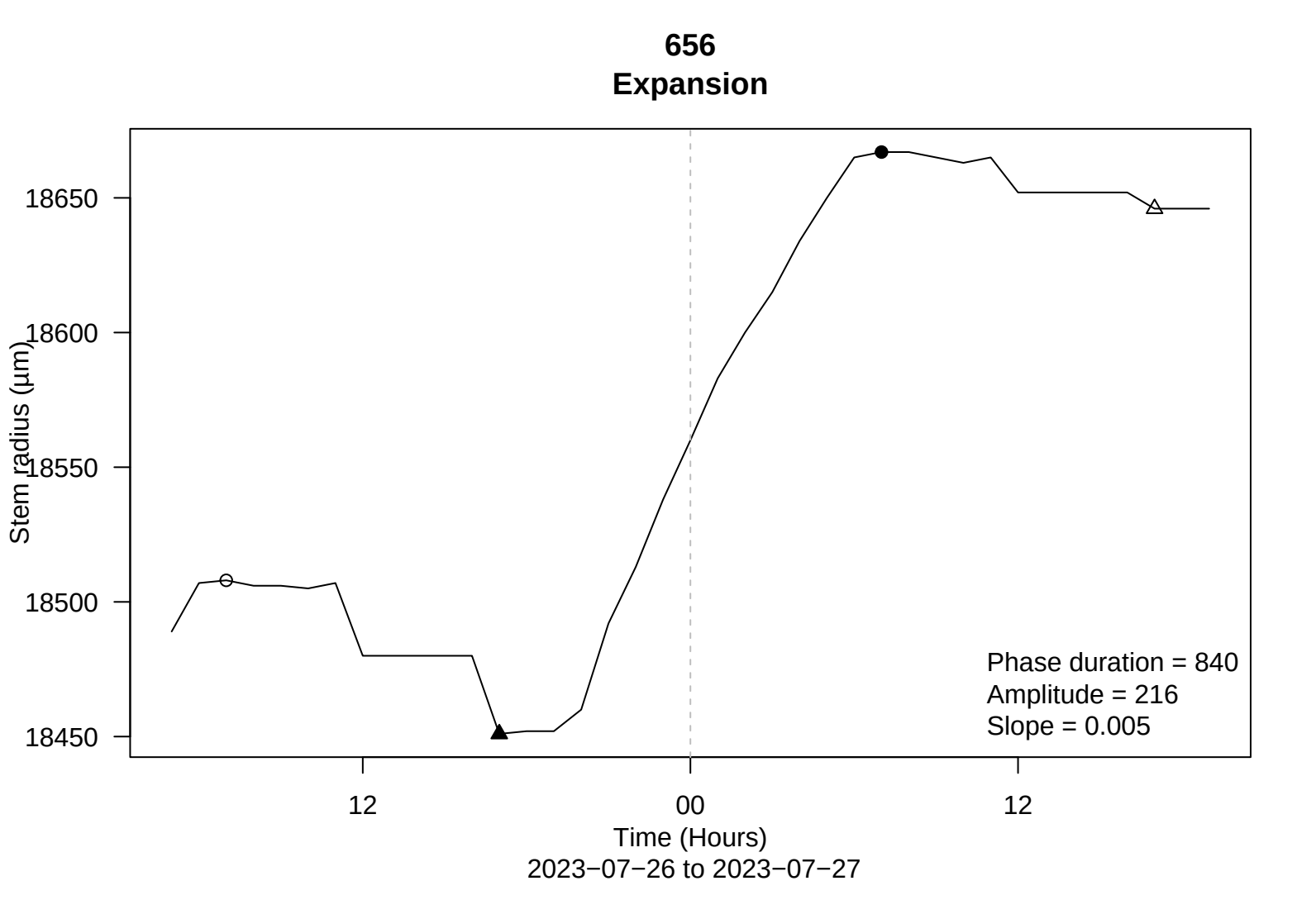

656
Shrinkage
18300
18200
18100
18000
Stem radius (µm)
Phase duration = 600
Amplitude = −72
Slope = −0.0022
00
12
00
Time (Hours)
2023−07−24 to 2023−07−24

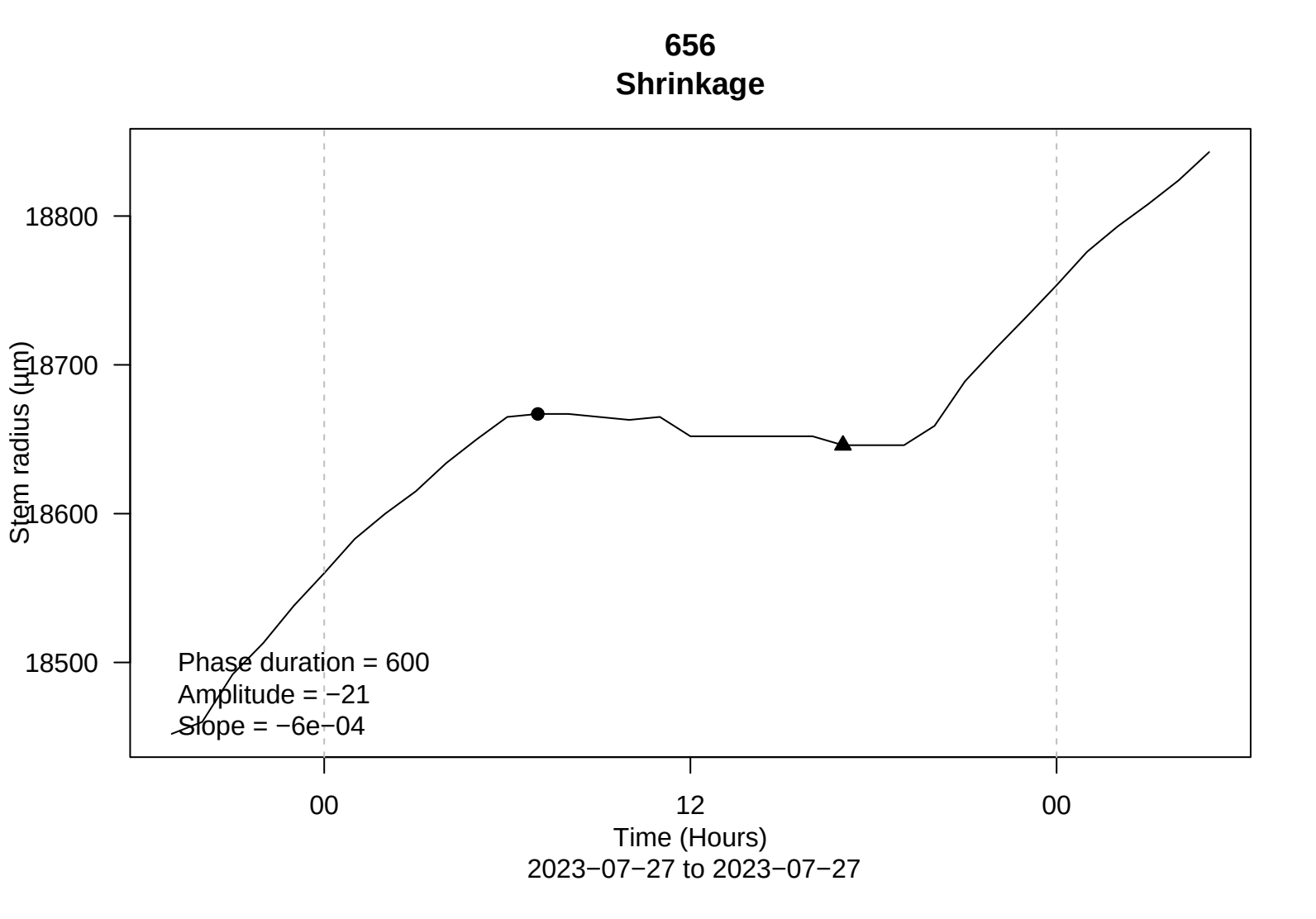

656
Expansion
18350
18300
18250
18200
18150
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−24 to 2023−07−25
Phase duration = 840
Amplitude = 250
Slope = 0.0057

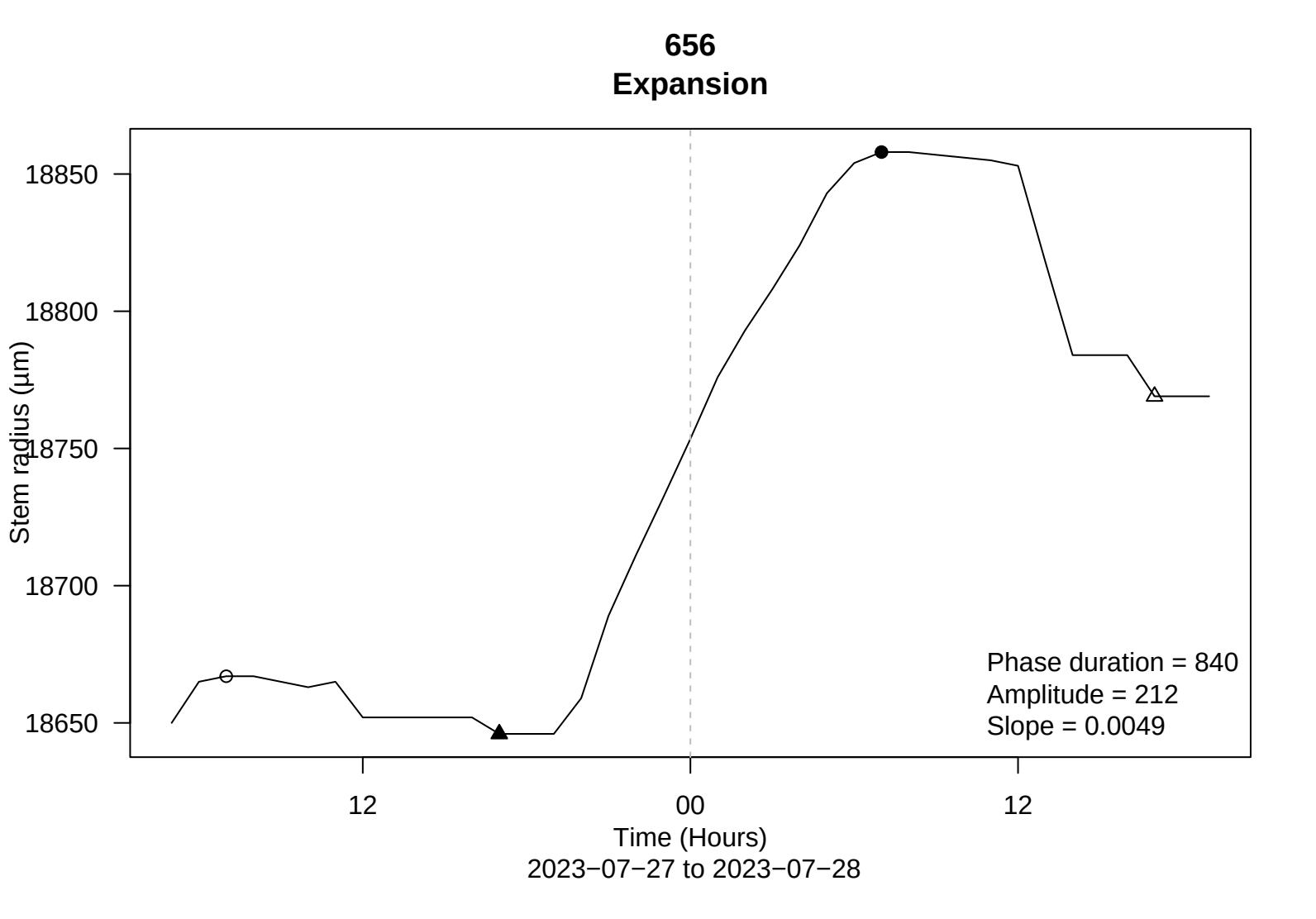

656
Shrinkage
18500
18400
18300
18200
Stem radius (µm)
Phase duration = 600
Amplitude = −107
Slope = −0.0033
00
12
00
Time (Hours)
2023−07−25 to 2023−07−25

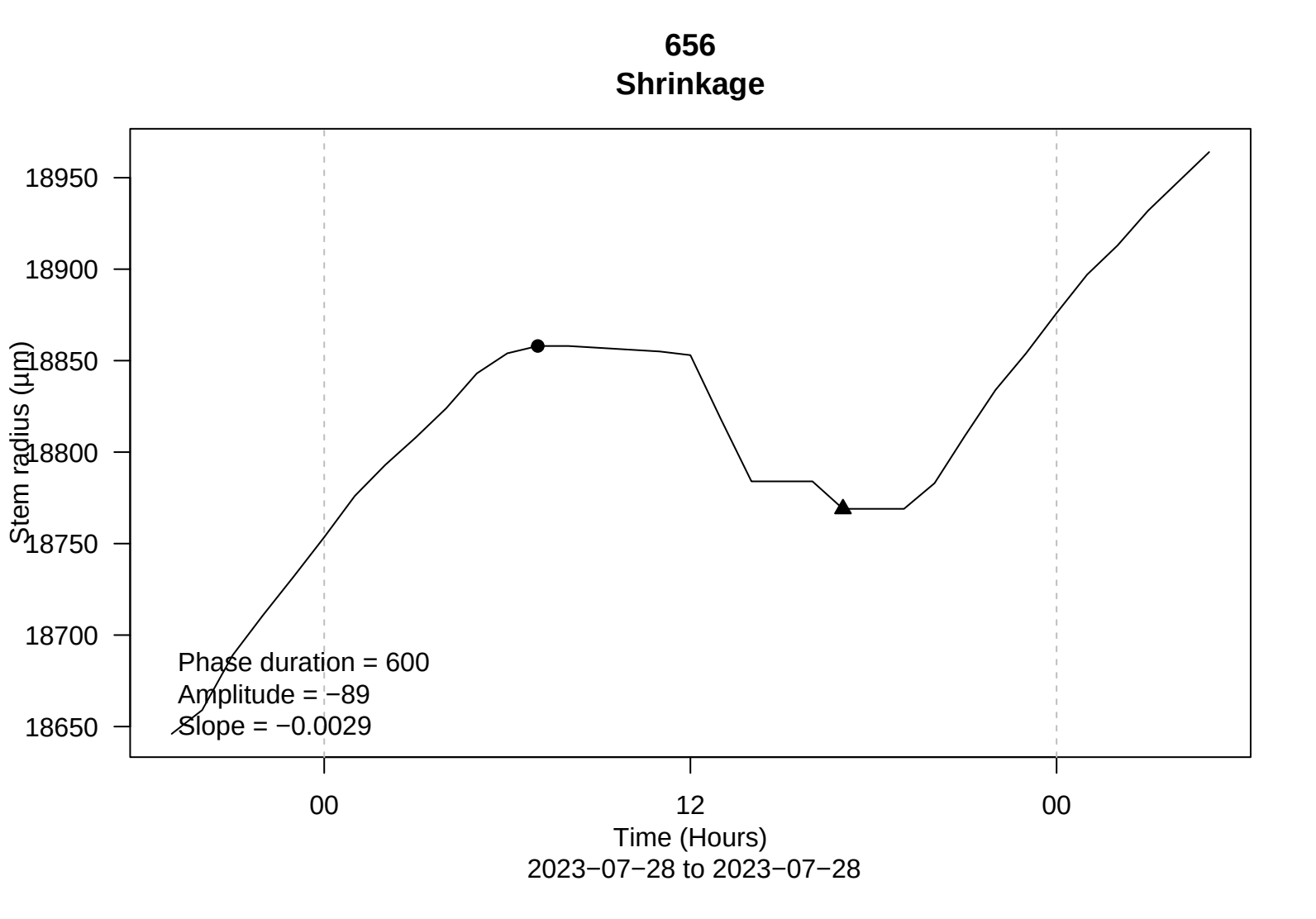

656
Expansion
18500
18450
18400
18350
18300
Stem radius (µm)
Phase duration = 780
Amplitude = 235
Slope = 0.0057
12
00
12
Time (Hours)
2023−07−25 to 2023−07−26

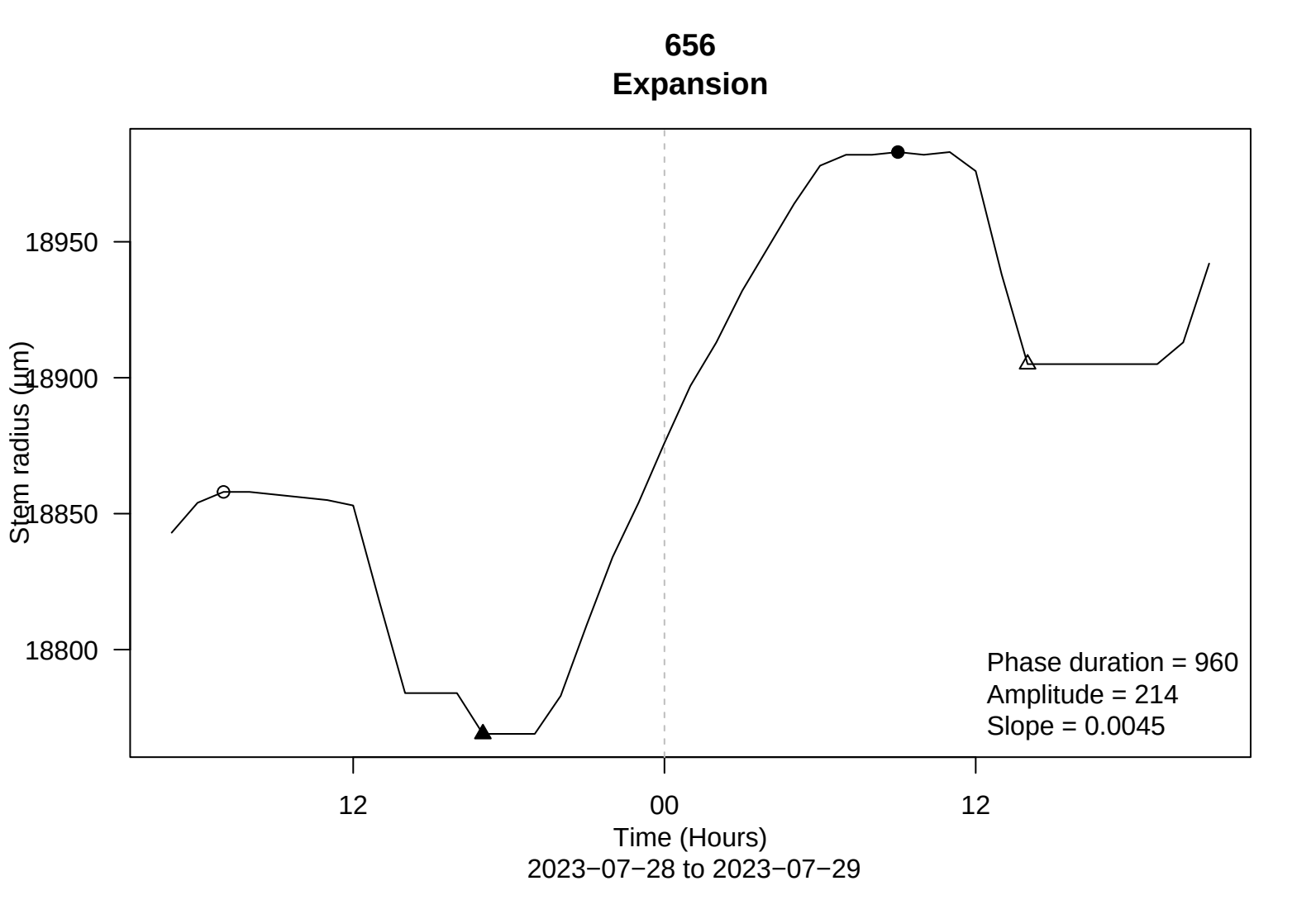

656
Shrinkage
18600
18500
18400
18300
Stem radius (µm)
Phase duration = 600
Amplitude = −57
Slope = −0.0014
00
12
00
Time (Hours)
2023−07−26 to 2023−07−26

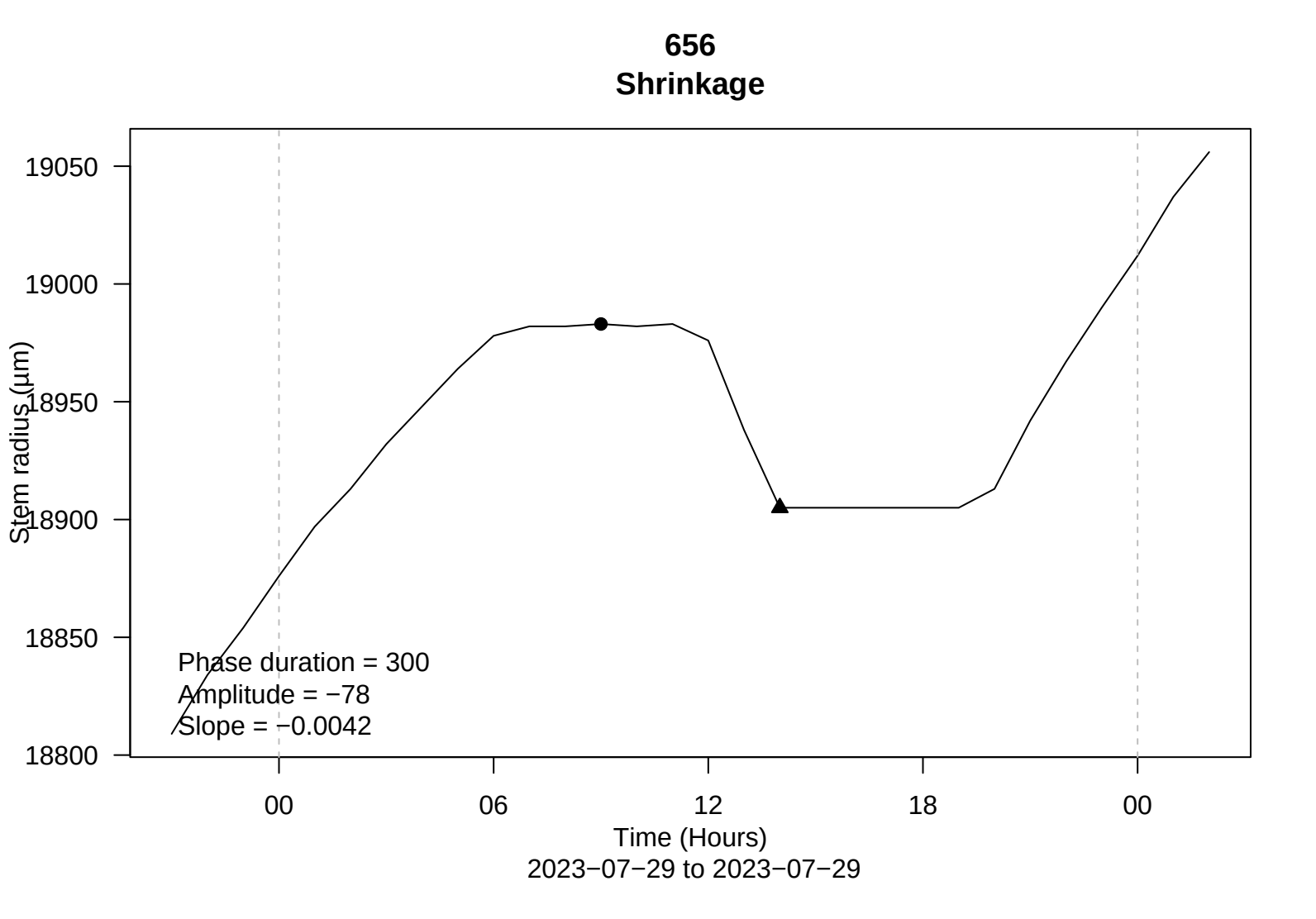

656
Expansion
18650
18600
18550
18500
18450
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−26 to 2023−07−27
Phase duration = 840
Amplitude = 216
Slope = 0.005

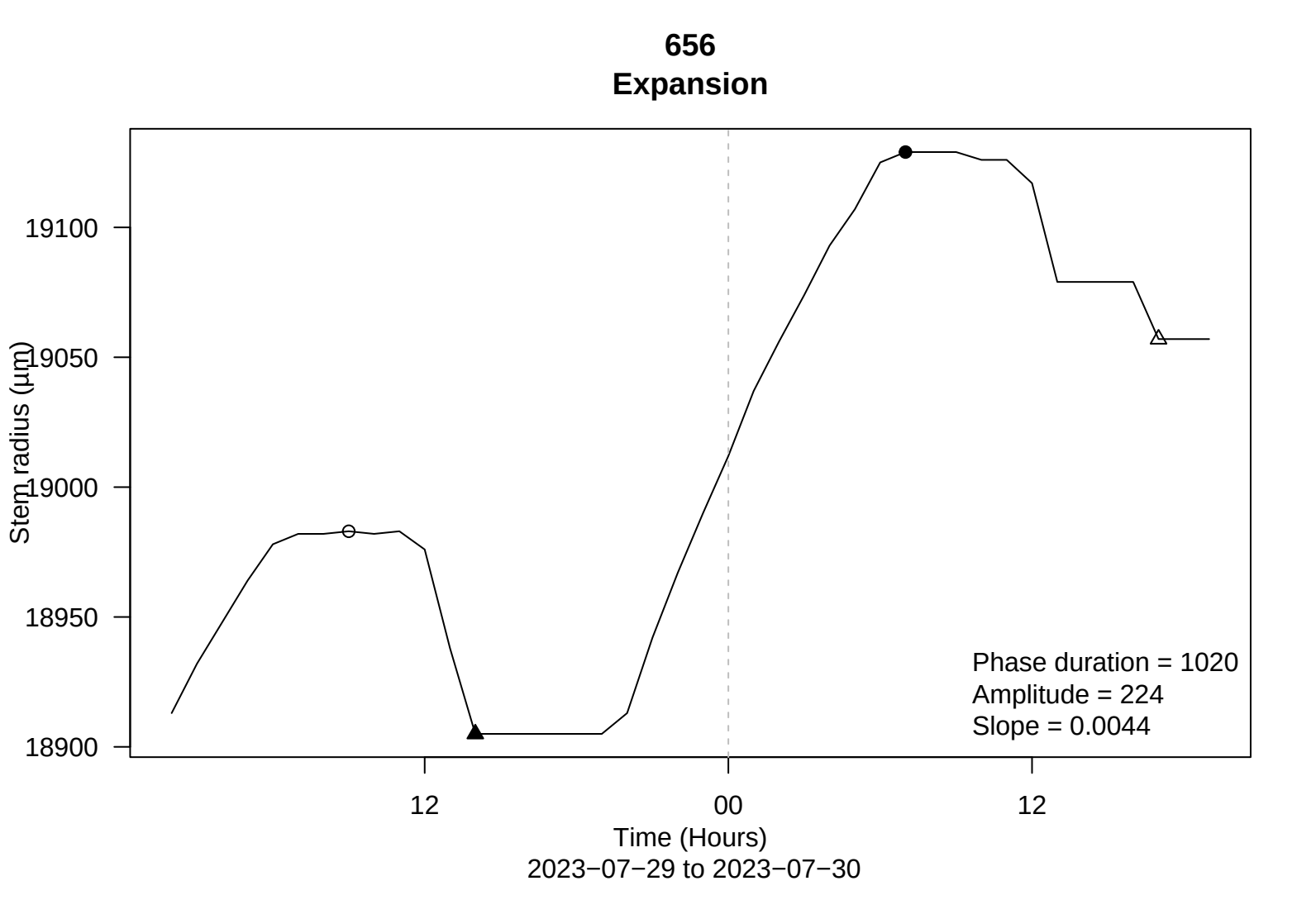

656
Shrinkage
18800
18700
18600
18500
Stem radius (µm)
Phase duration = 600
Amplitude = −21
Slope = −6e−04
00
12
00
Time (Hours)
2023−07−27 to 2023−07−27

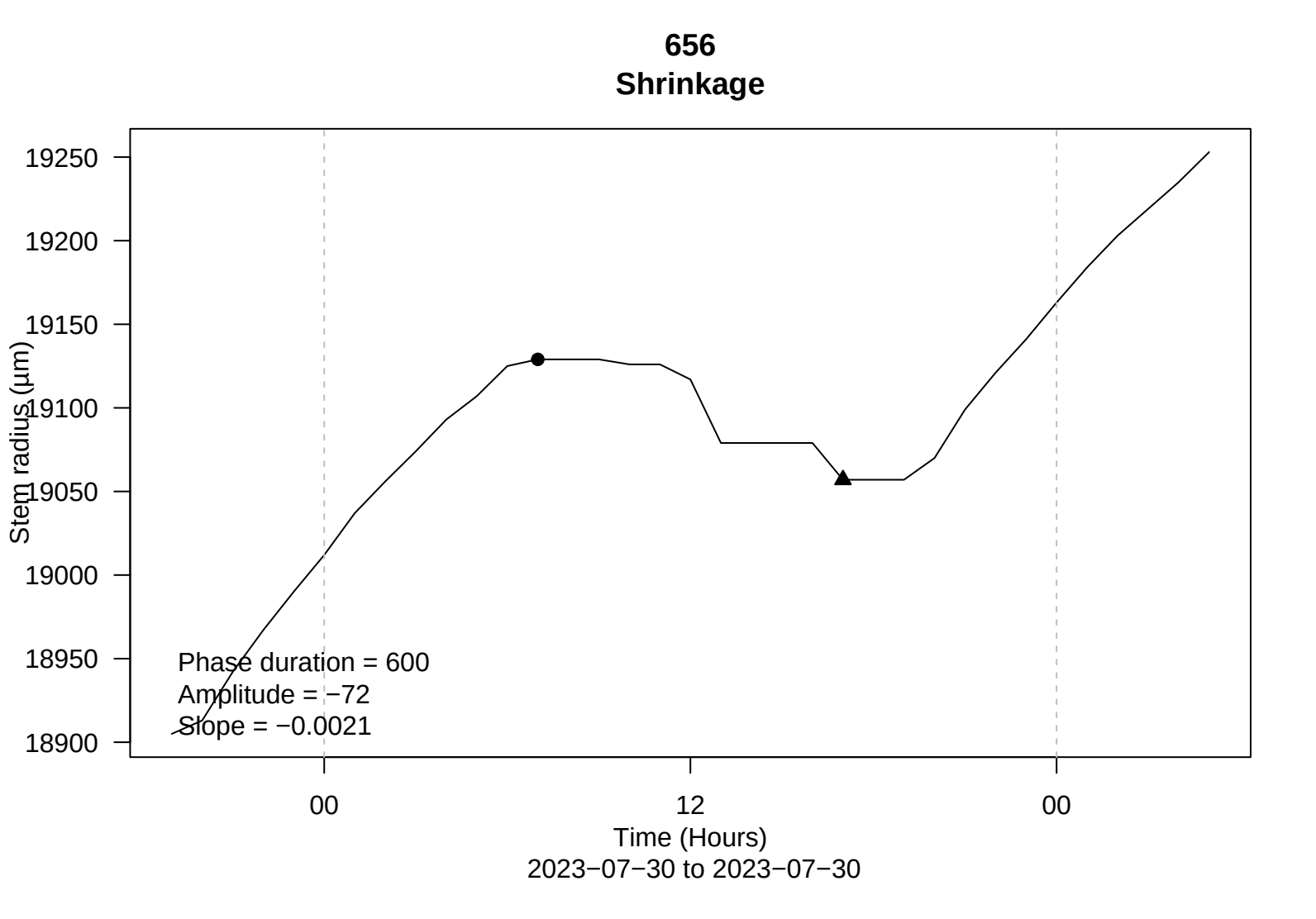

656
Expansion
18850
18800
18750
18700
18650
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−27 to 2023−07−28
Phase duration = 840
Amplitude = 212
Slope = 0.0049

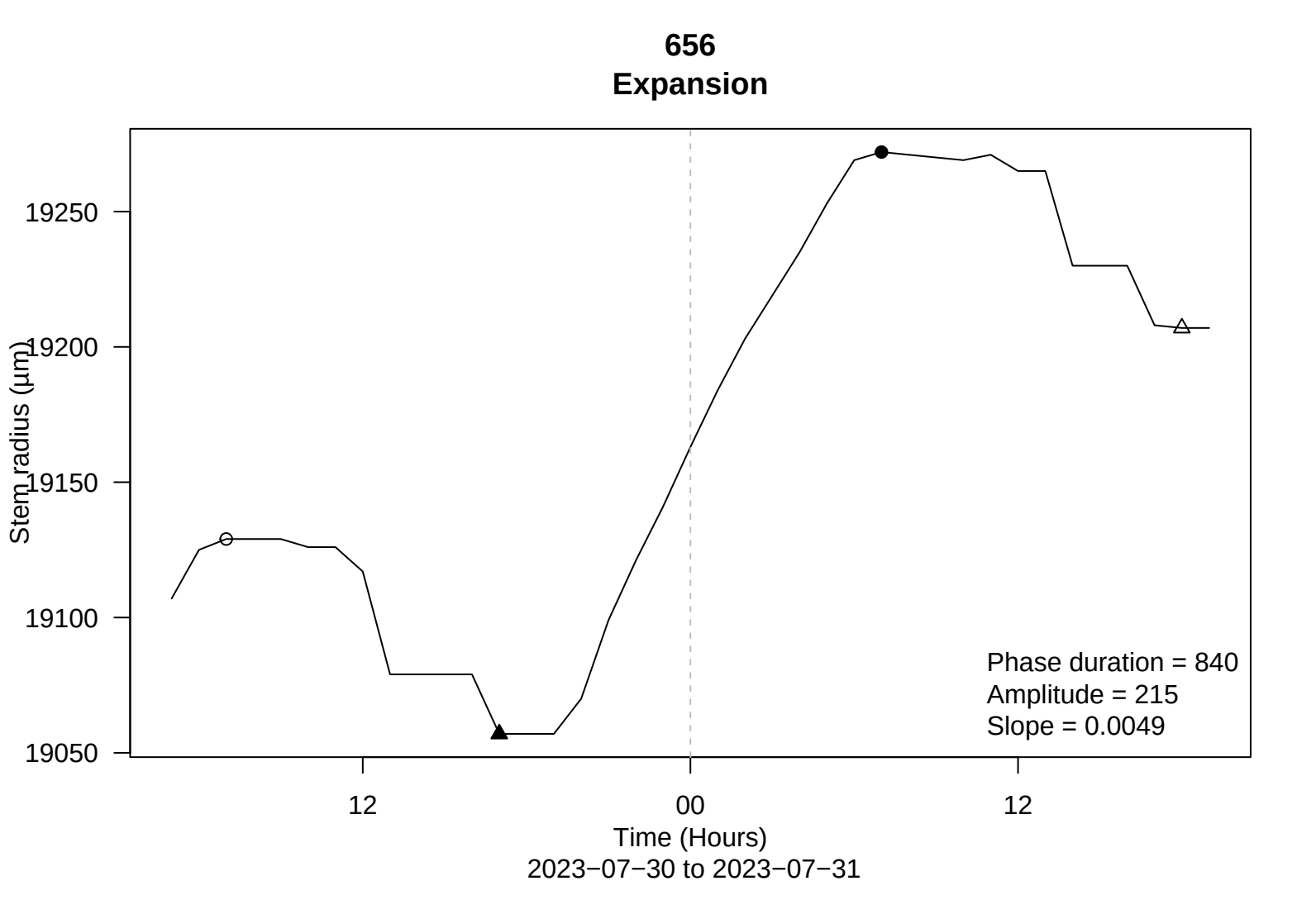

656
Shrinkage
18950
18900
18850
18800
18750
18700
18650
Stem radius (µm)
Phase duration = 600
Amplitude = −89
Slope = −0.0029
00
12
00
Time (Hours)
2023−07−28 to 2023−07−28

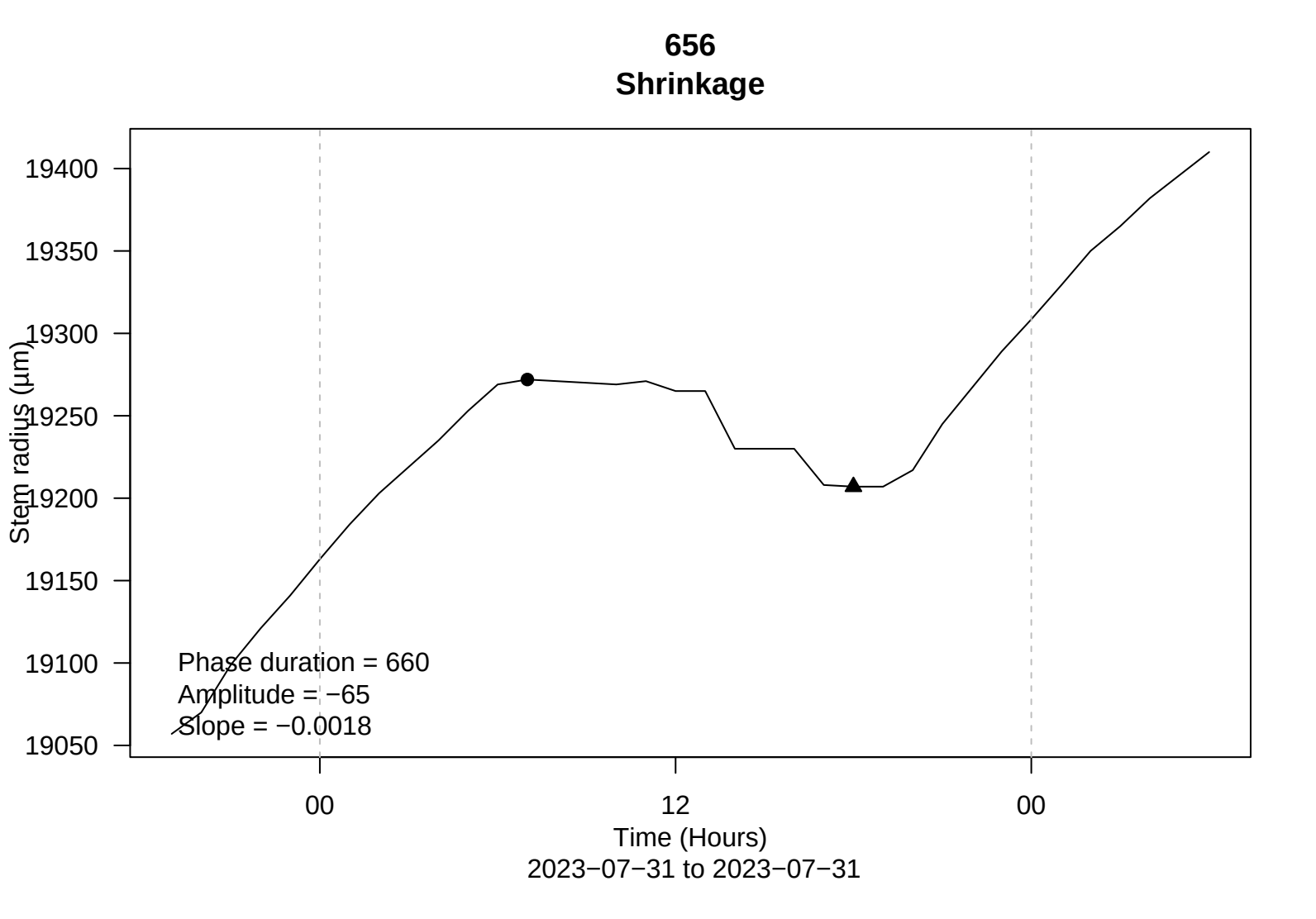

656
Expansion
18950
18900
18850
18800
Stem radius (µm)
Phase duration = 960
Amplitude = 214
Slope = 0.0045
12
00
12
Time (Hours)
2023−07−28 to 2023−07−29

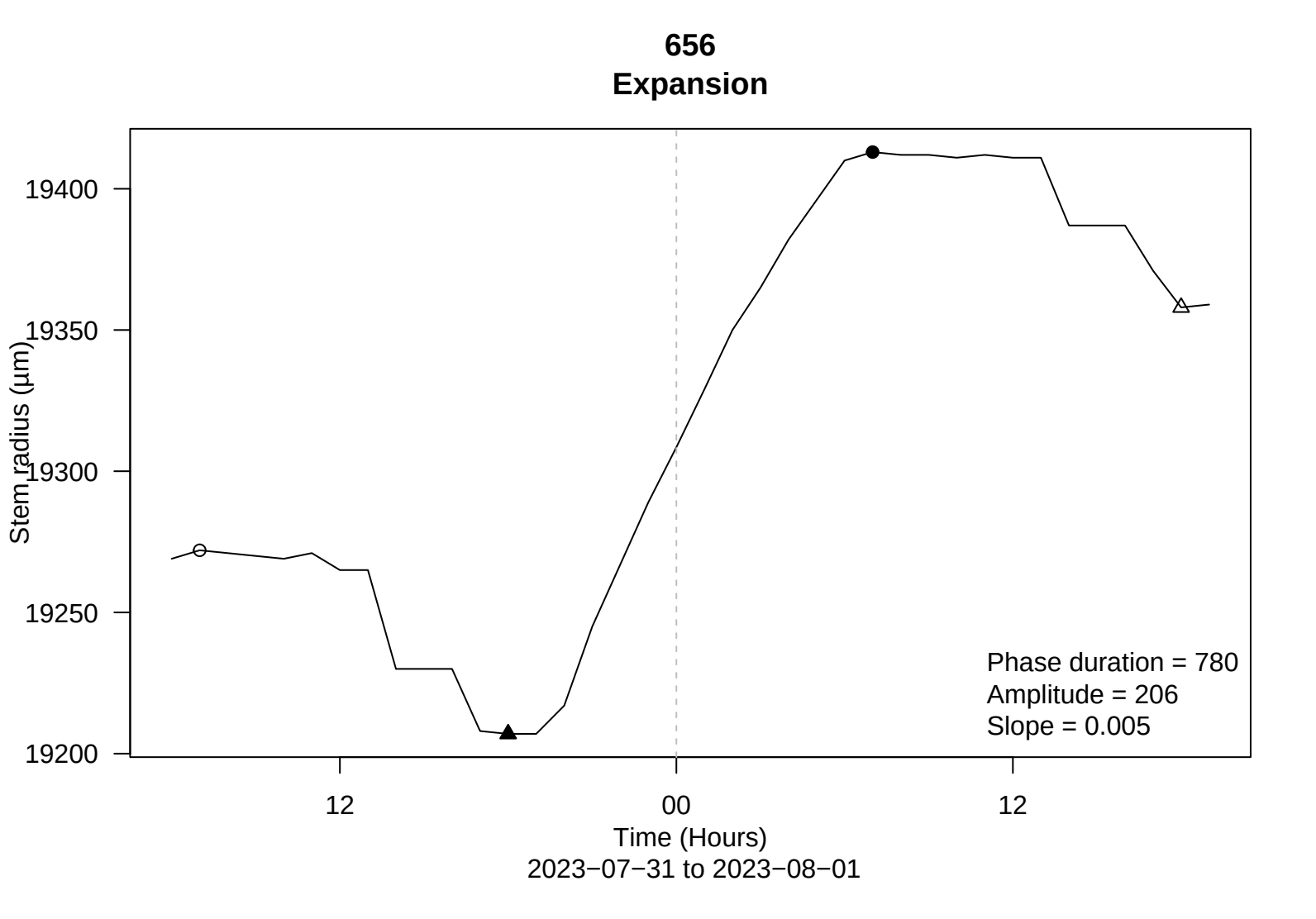

656
Shrinkage
19050
19000
18950
18900
18850
18800
Stem radius (µm)
Phase duration = 300
Amplitude = −78
Slope = −0.0042
00
06
12
18
00
Time (Hours)
2023−07−29 to 2023−07−29

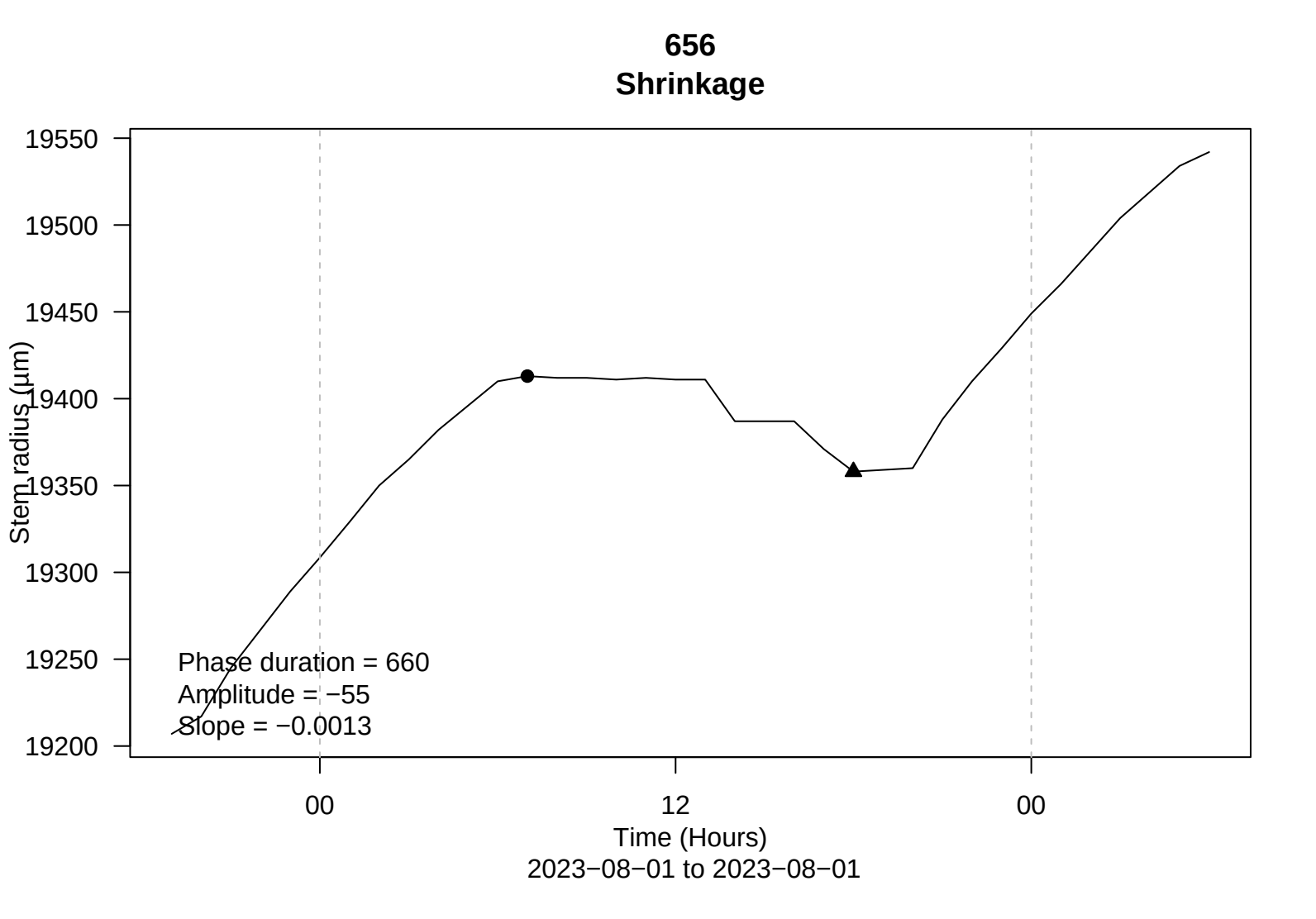

656
Expansion
19100
19050
19000
18950
18900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−29 to 2023−07−30
Phase duration = 1020
Amplitude = 224
Slope = 0.0044

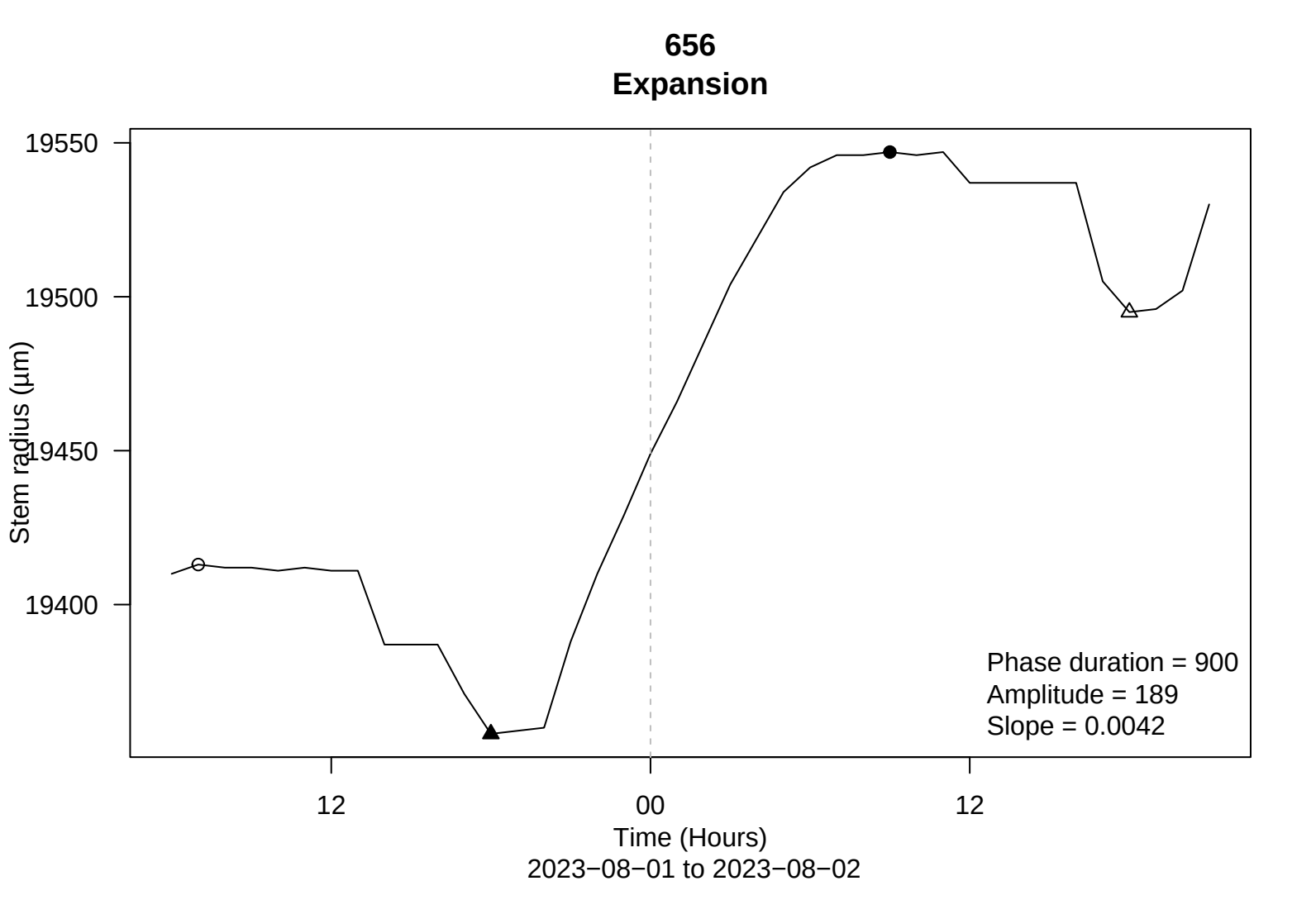

656
Shrinkage
19250
19200
19150
19100
19050
19000
18950
18900
Stem radius (µm)
Phase duration = 600
Amplitude = −72
Slope = −0.0021
00
12
00
Time (Hours)
2023−07−30 to 2023−07−30

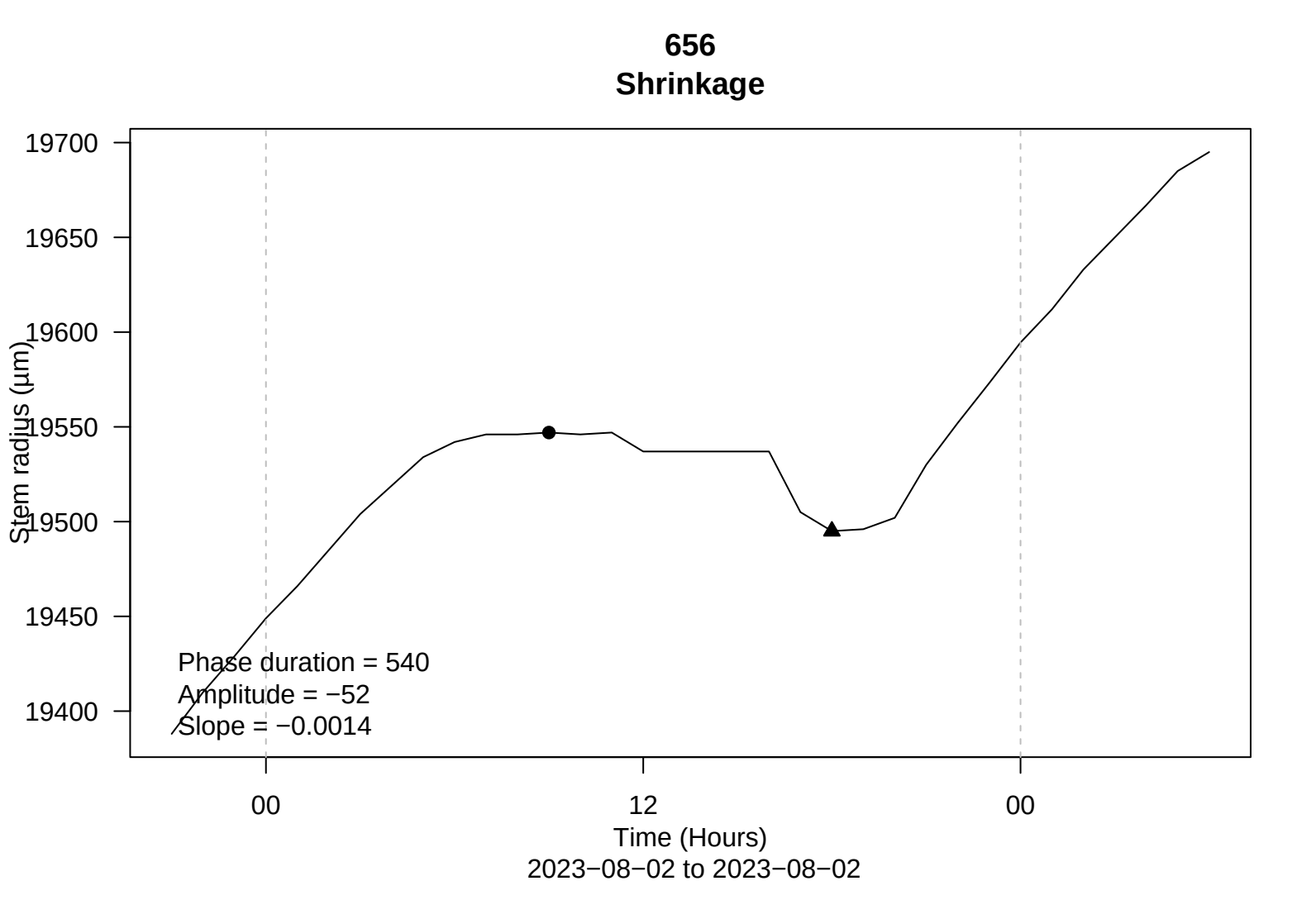

656
Expansion
19250
19200
19150
19100
19050
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−30 to 2023−07−31
Phase duration = 840
Amplitude = 215
Slope = 0.0049

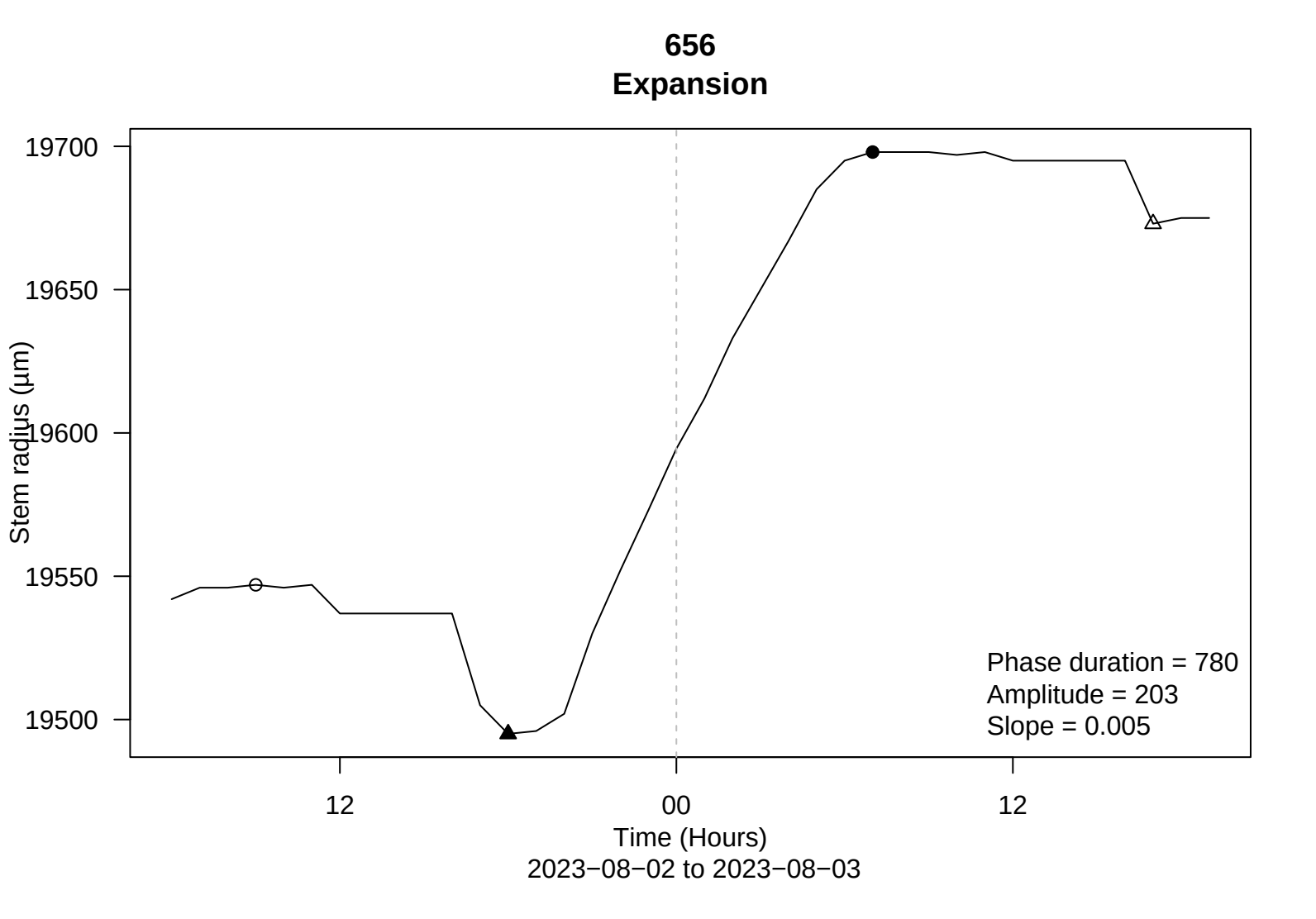

656
Shrinkage
19400
19350
19300
19250
19200
19150
19100
19050
Stem radius (µm)
Phase duration = 660
Amplitude = −65
Slope = −0.0018
00
12
00
Time (Hours)
2023−07−31 to 2023−07−31

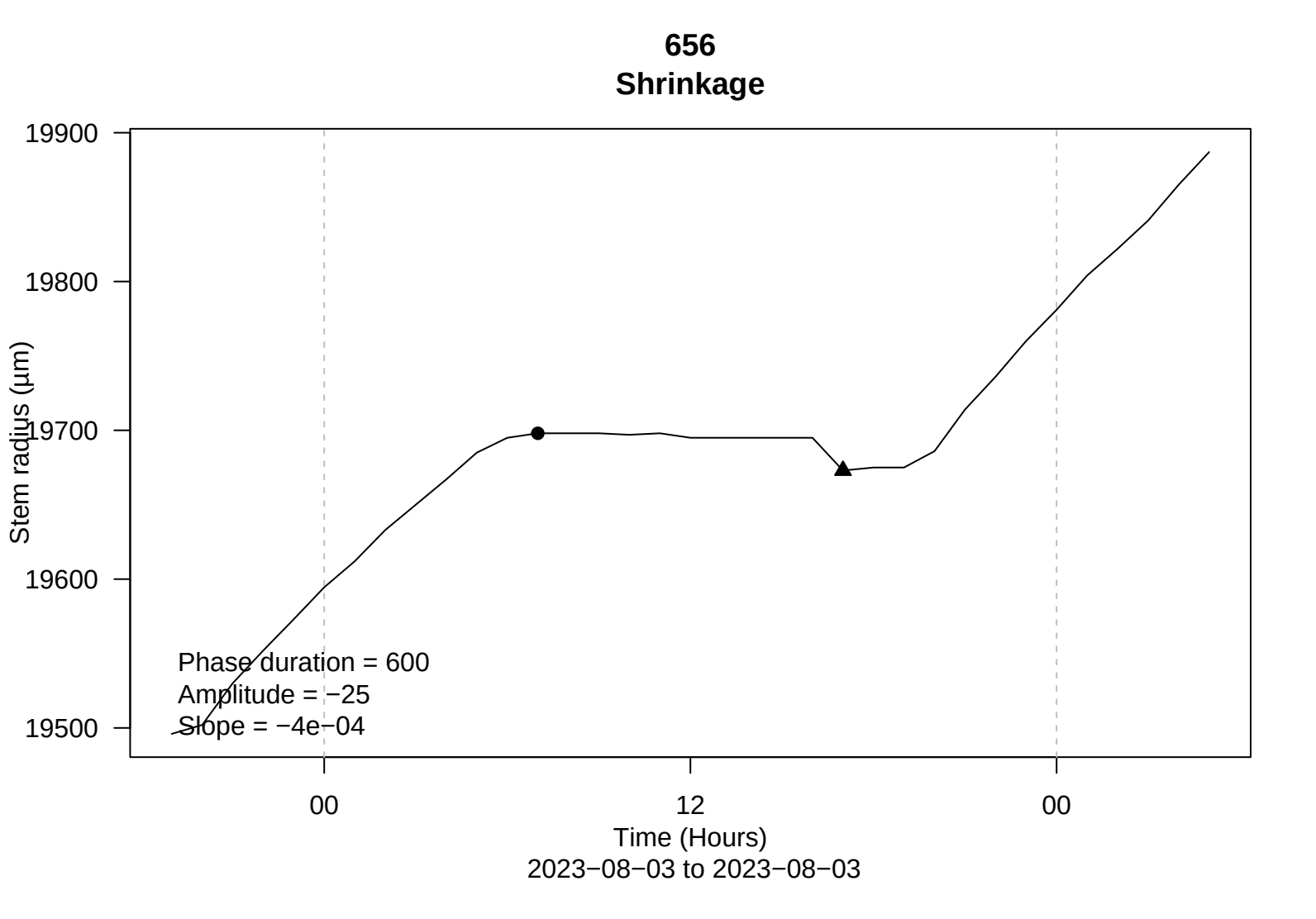

656
Expansion
19400
19350
19300
19250
19200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−31 to 2023−08−01
Phase duration = 780
Amplitude = 206
Slope = 0.005

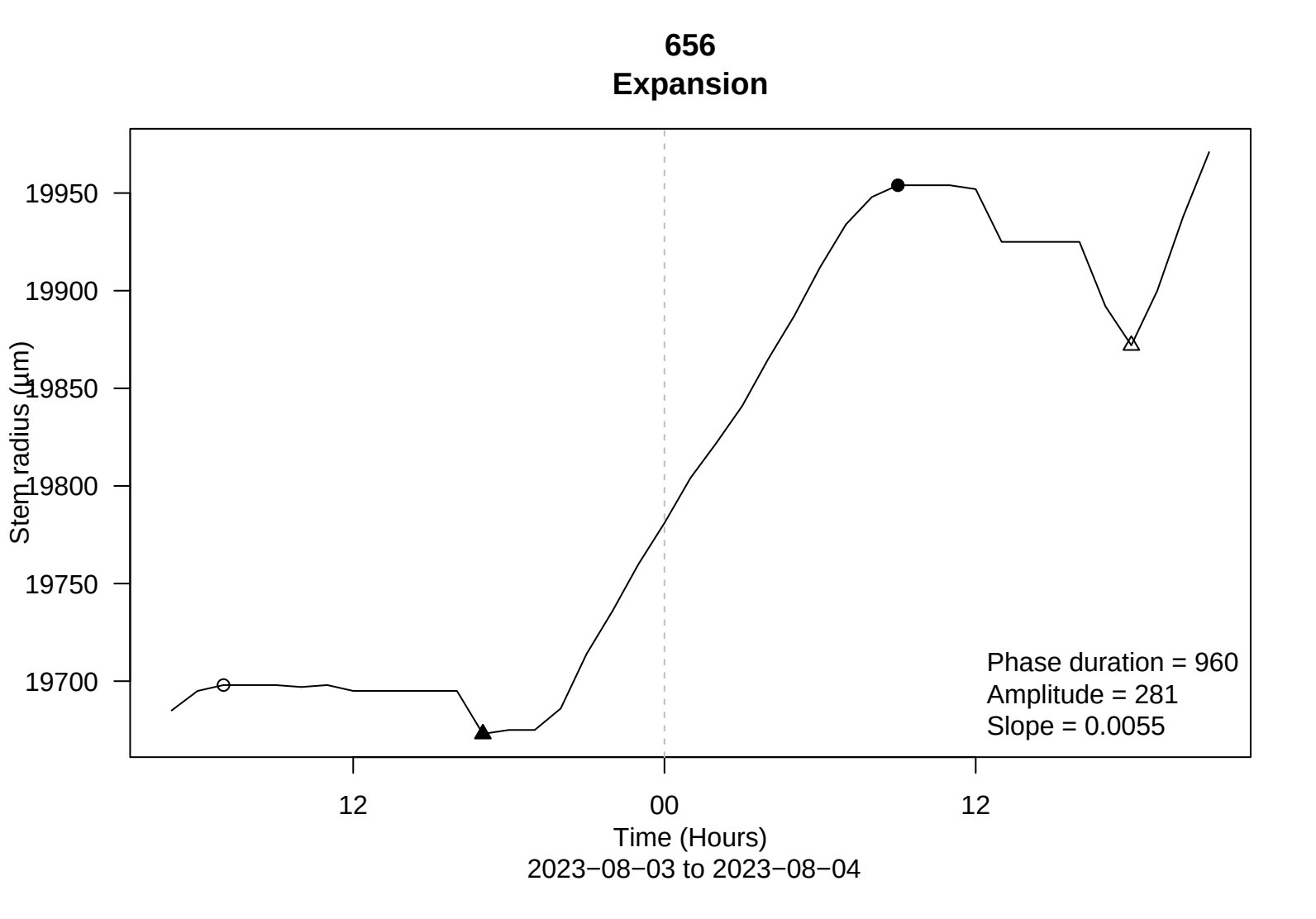

656
Shrinkage
19550
19500
19450
19400
19350
19300
19250
19200
Stem radius (µm)
Phase duration = 660
Amplitude = −55
Slope = −0.0013
00
12
00
Time (Hours)
2023−08−01 to 2023−08−01

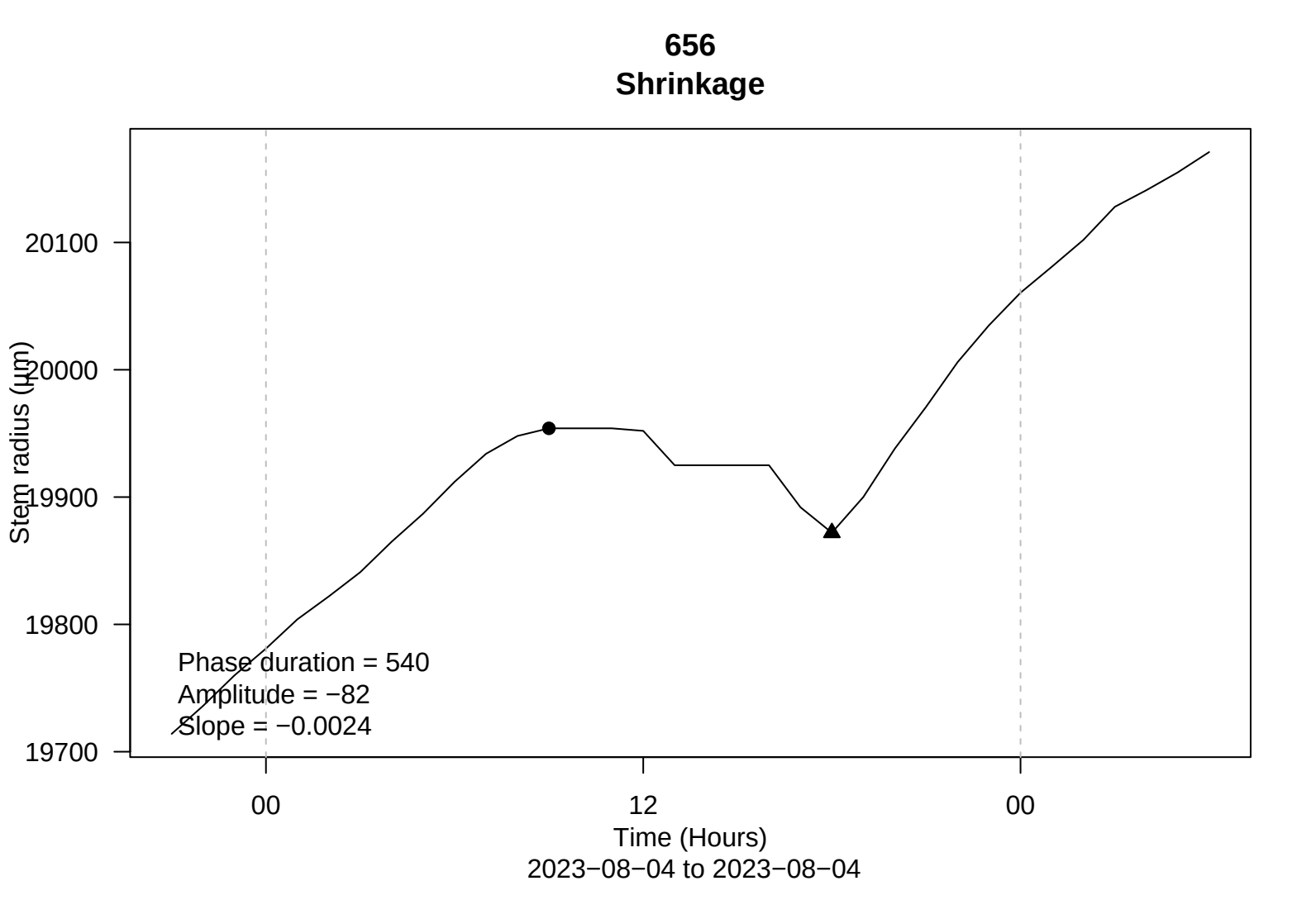

656
Expansion
19550
19500
19450
19400
Stem radius (µm)
Phase duration = 900
Amplitude = 189
Slope = 0.0042
12
00
12
Time (Hours)
2023−08−01 to 2023−08−02

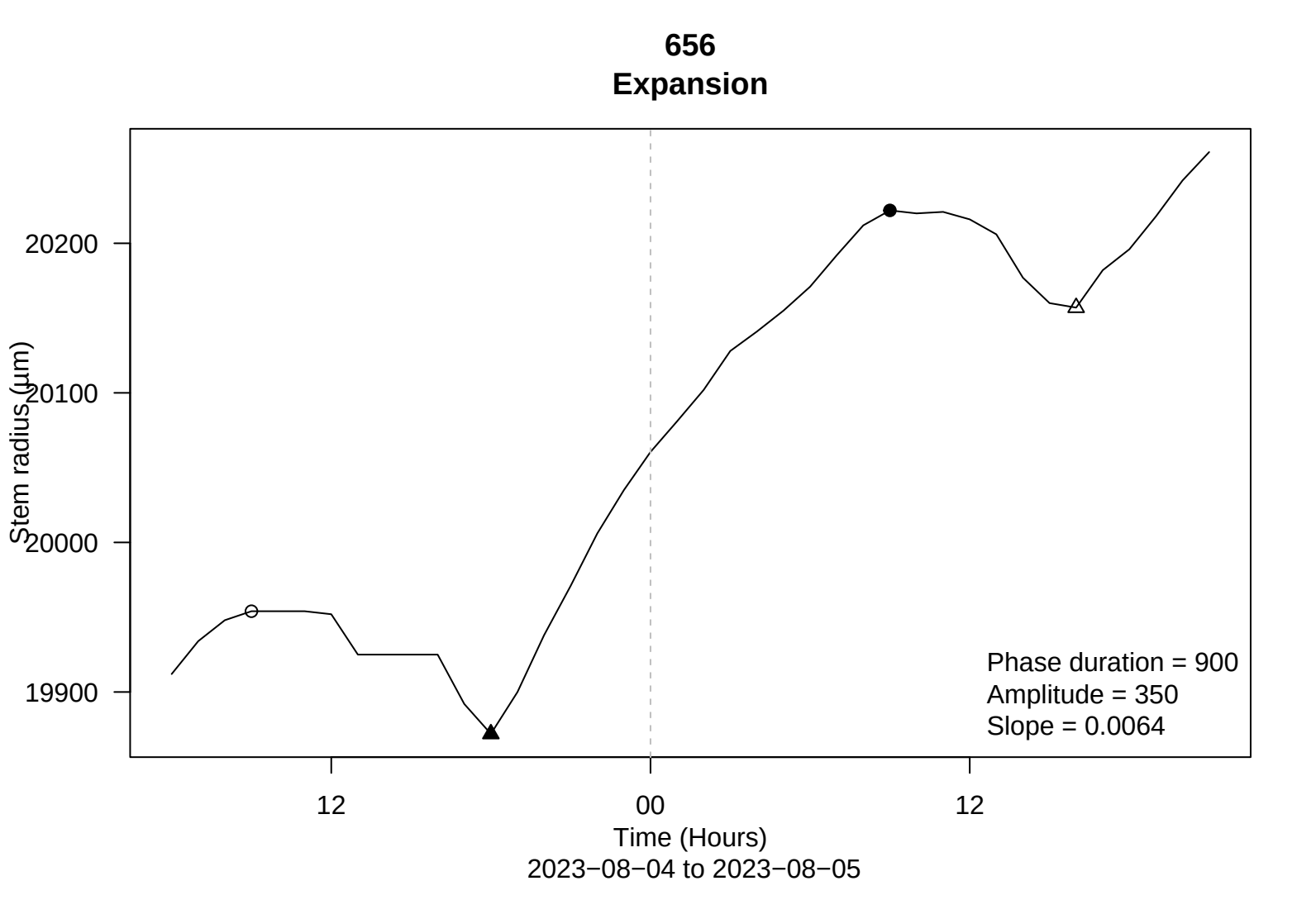

656
Shrinkage
19700
19650
19600
19550
19500
19450
19400
Stem radius (µm)
Phase duration = 540
Amplitude = −52
Slope = −0.0014
00
12
00
Time (Hours)
2023−08−02 to 2023−08−02

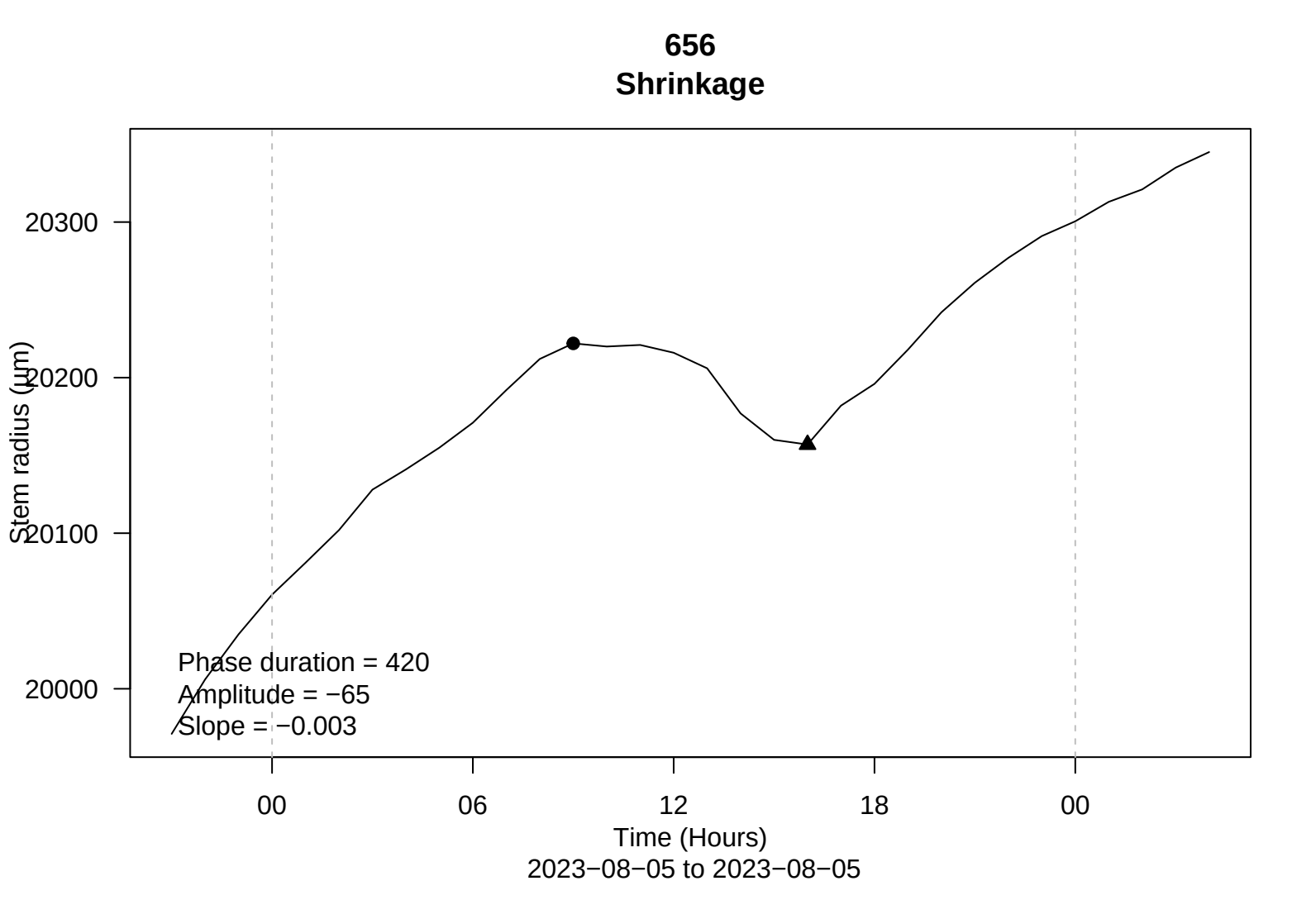

656
Expansion
19700
19650
19600
19550
19500
Stem radius (µm)
Phase duration = 780
Amplitude = 203
Slope = 0.005
12
00
12
Time (Hours)
2023−08−02 to 2023−08−03

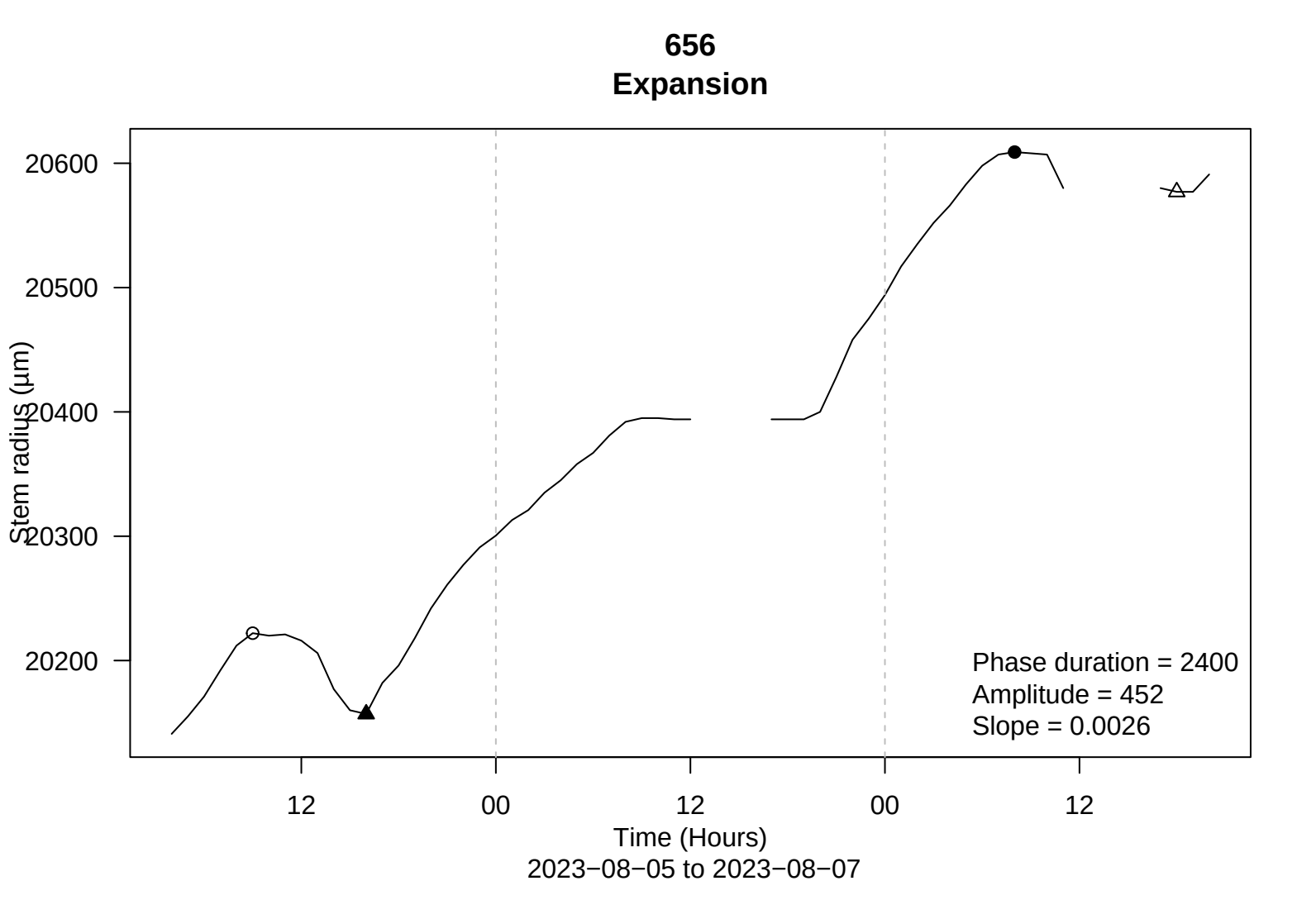

656
Shrinkage
19900
19800
19700
19600
19500
Stem radius (µm)
Phase duration = 600
Amplitude = −25
Slope = −4e−04
00
12
00
Time (Hours)
2023−08−03 to 2023−08−03

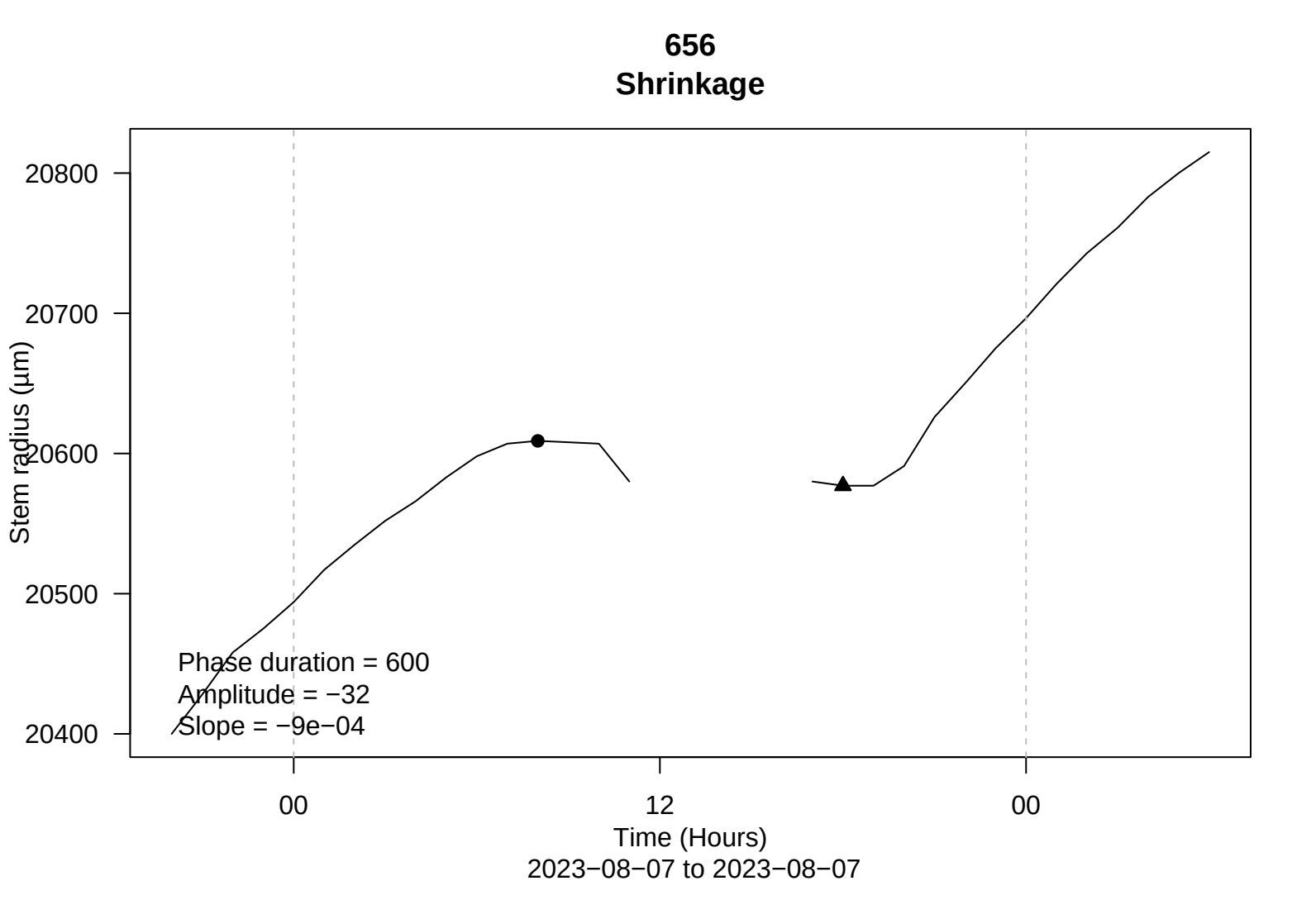

656
Expansion
19950
19900
19850
19800
19750
19700
Stem radius (µm)
Phase duration = 960
Amplitude = 281
Slope = 0.0055
12
00
12
Time (Hours)
2023−08−03 to 2023−08−04

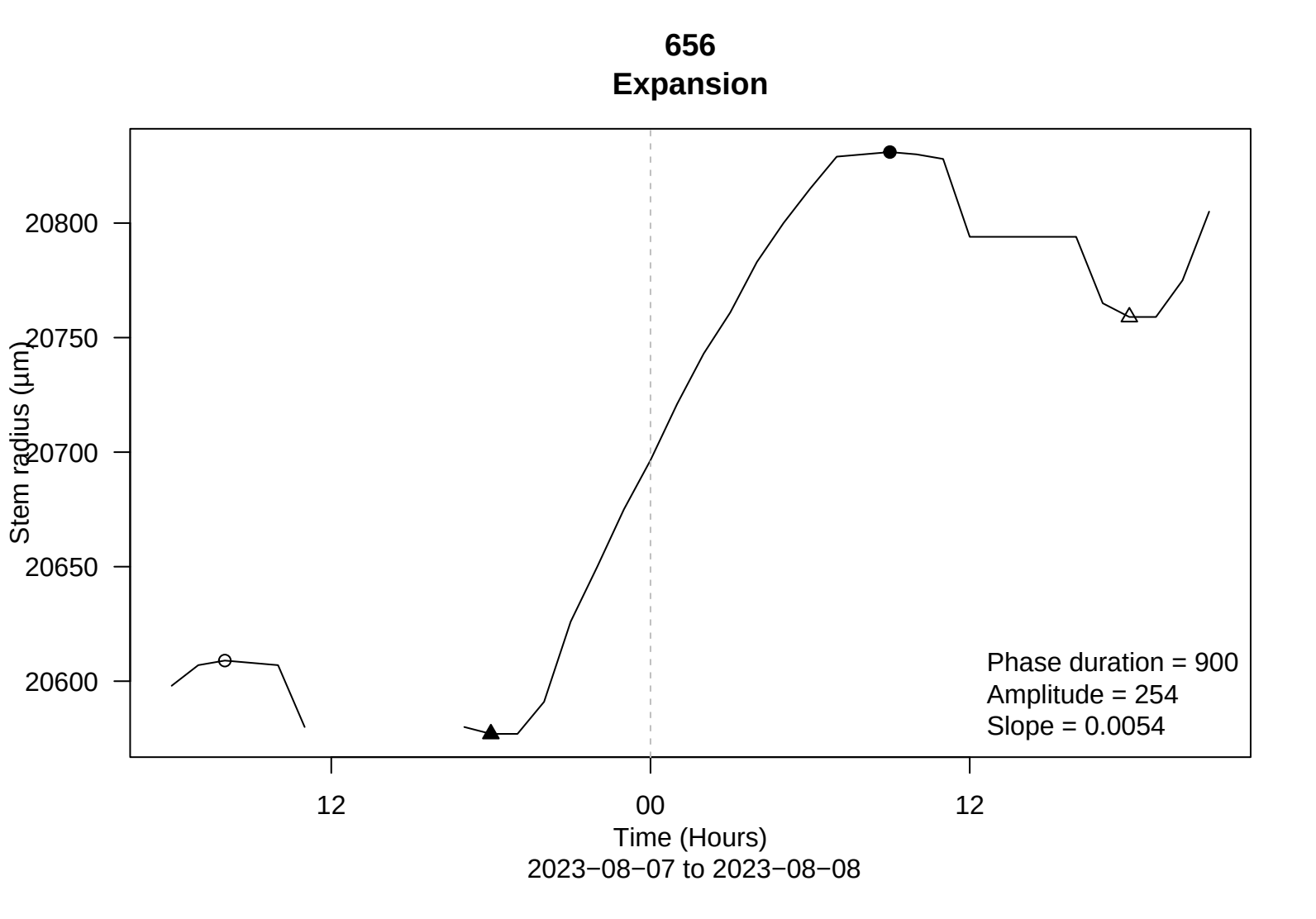

656
Shrinkage
20100
20000
19900
19800
19700
Stem radius (µm)
Phase duration = 540
Amplitude = −82
Slope = −0.0024
00
12
00
Time (Hours)
2023−08−04 to 2023−08−04

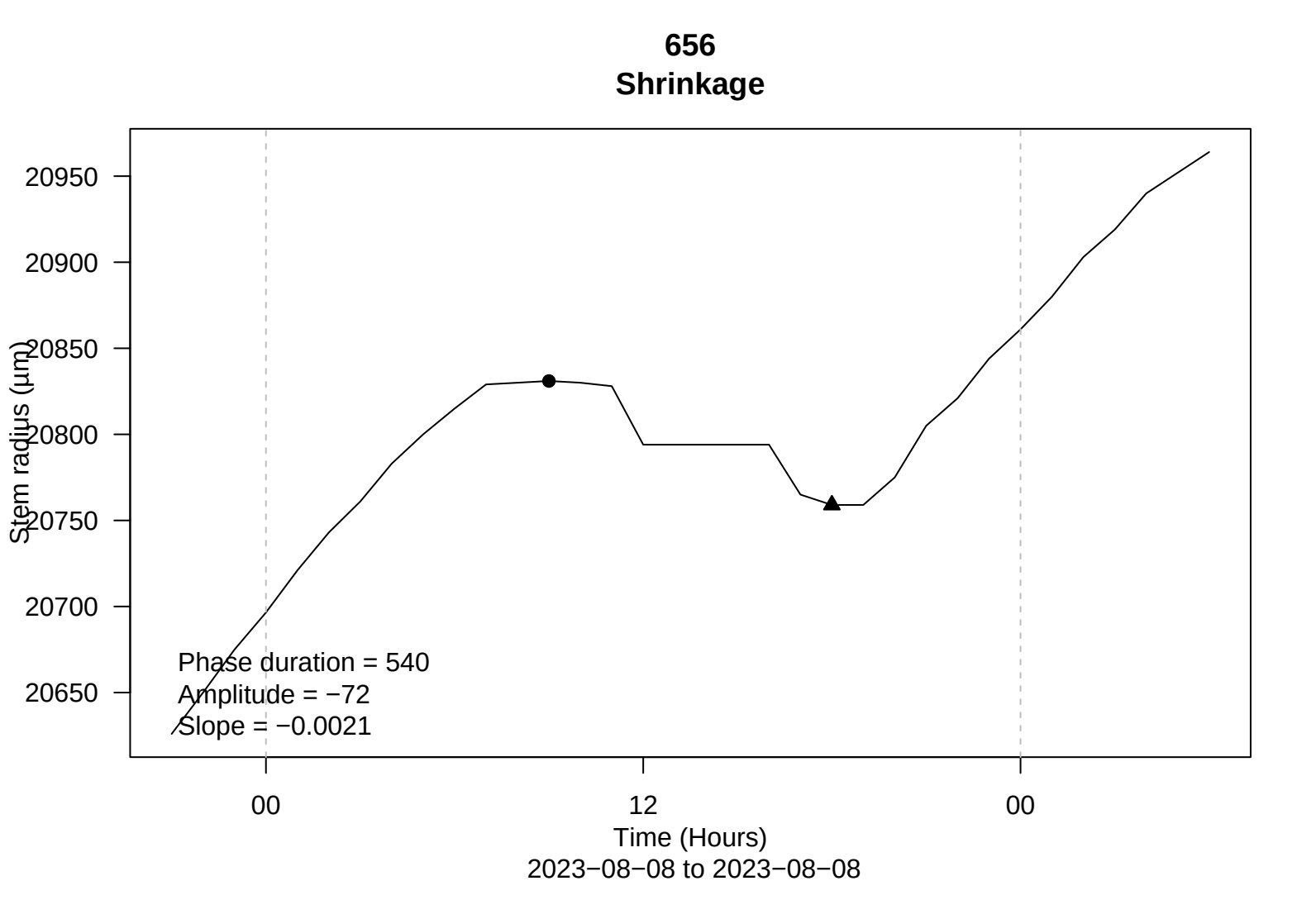

656
Expansion
20200
20100
20000
19900
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−04 to 2023−08−05
Phase duration = 900
Amplitude = 350
Slope = 0.0064

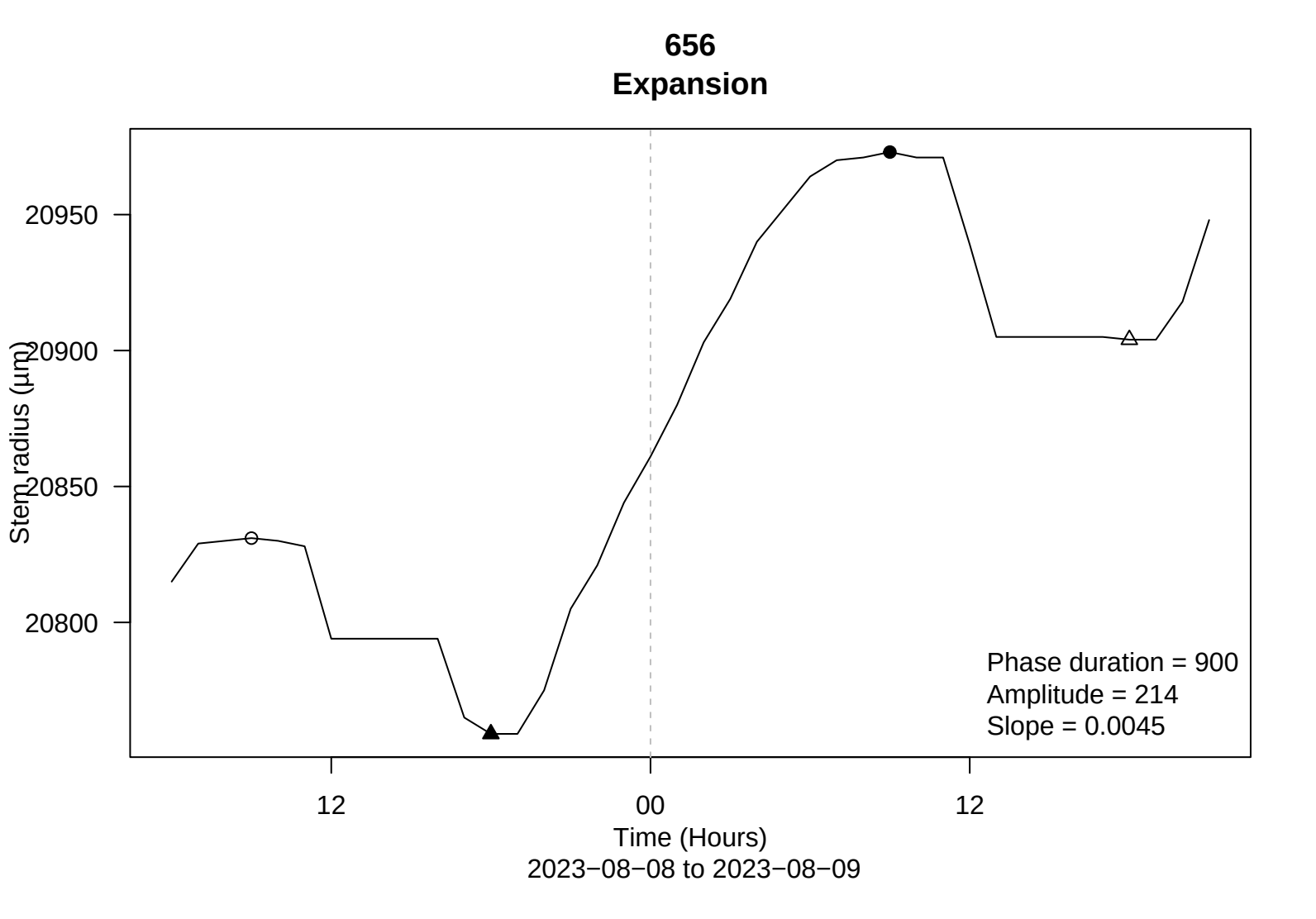

656
Shrinkage
20300
20200
20100
20000
Stem radius (µm)
Phase duration = 420
Amplitude = −65
Slope = −0.003
00
06
12
18
00
Time (Hours)
2023−08−05 to 2023−08−05

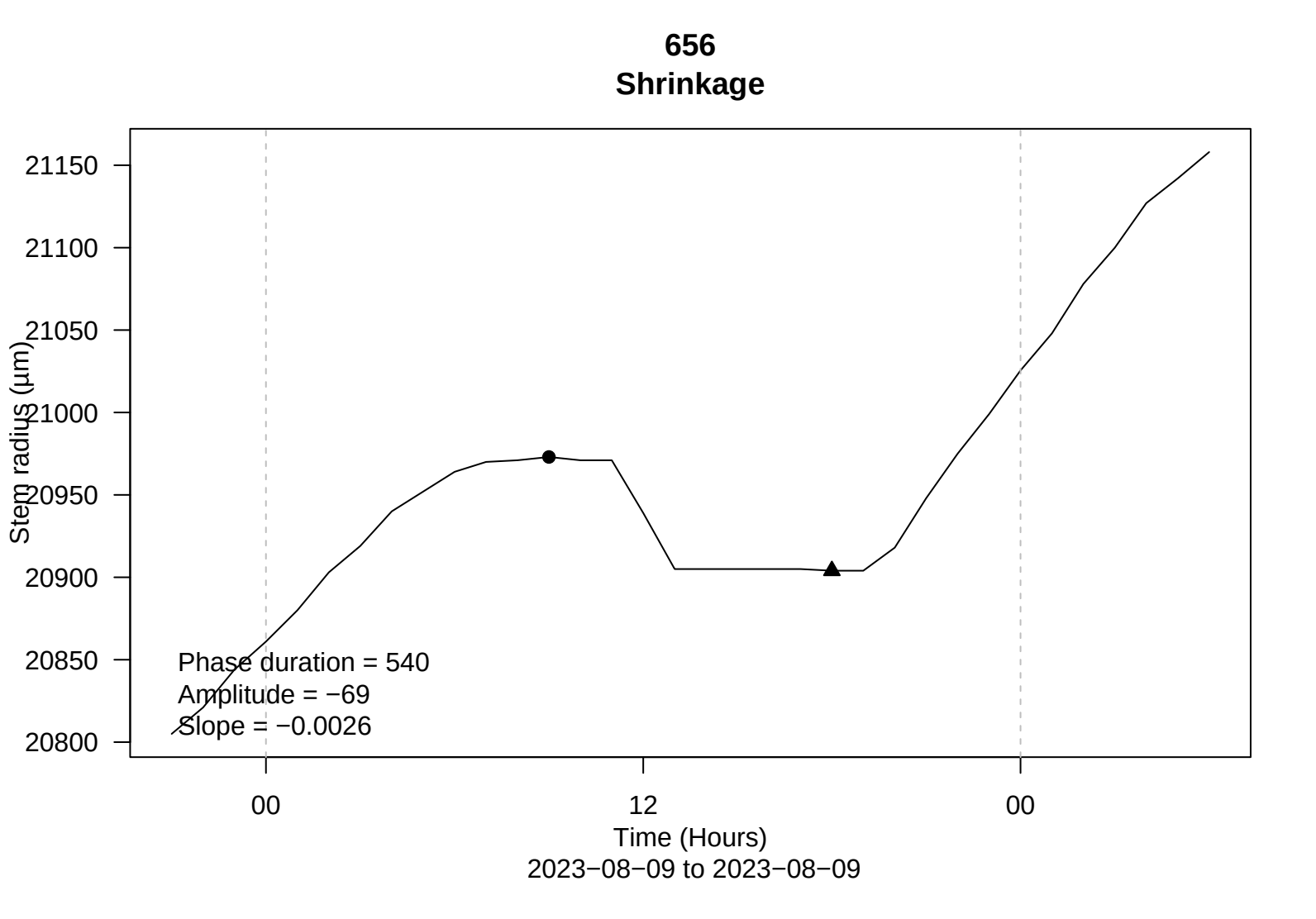

656
Expansion
20600
20500
20400
20300
20200
Stem radius (µm)
Phase duration = 2400
Amplitude = 452
Slope = 0.0026
12
00
12
00
12
Time (Hours)
2023−08−05 to 2023−08−07

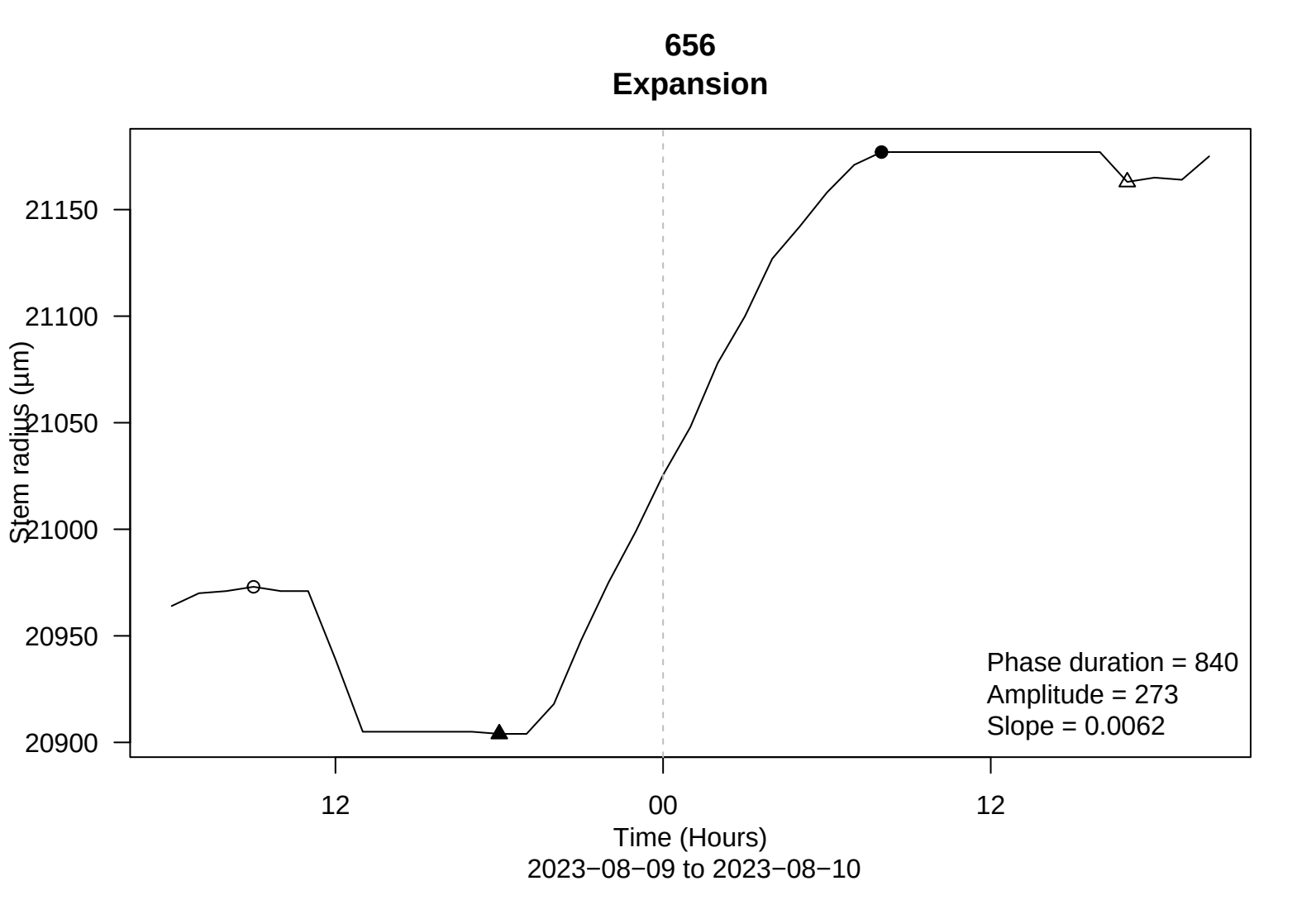

656
Shrinkage
20800
20700
20600
20500
20400
Stem radius (µm)
Phase duration = 600
Amplitude = −32
Slope = −9e−04
00
12
00
Time (Hours)
2023−08−07 to 2023−08−07

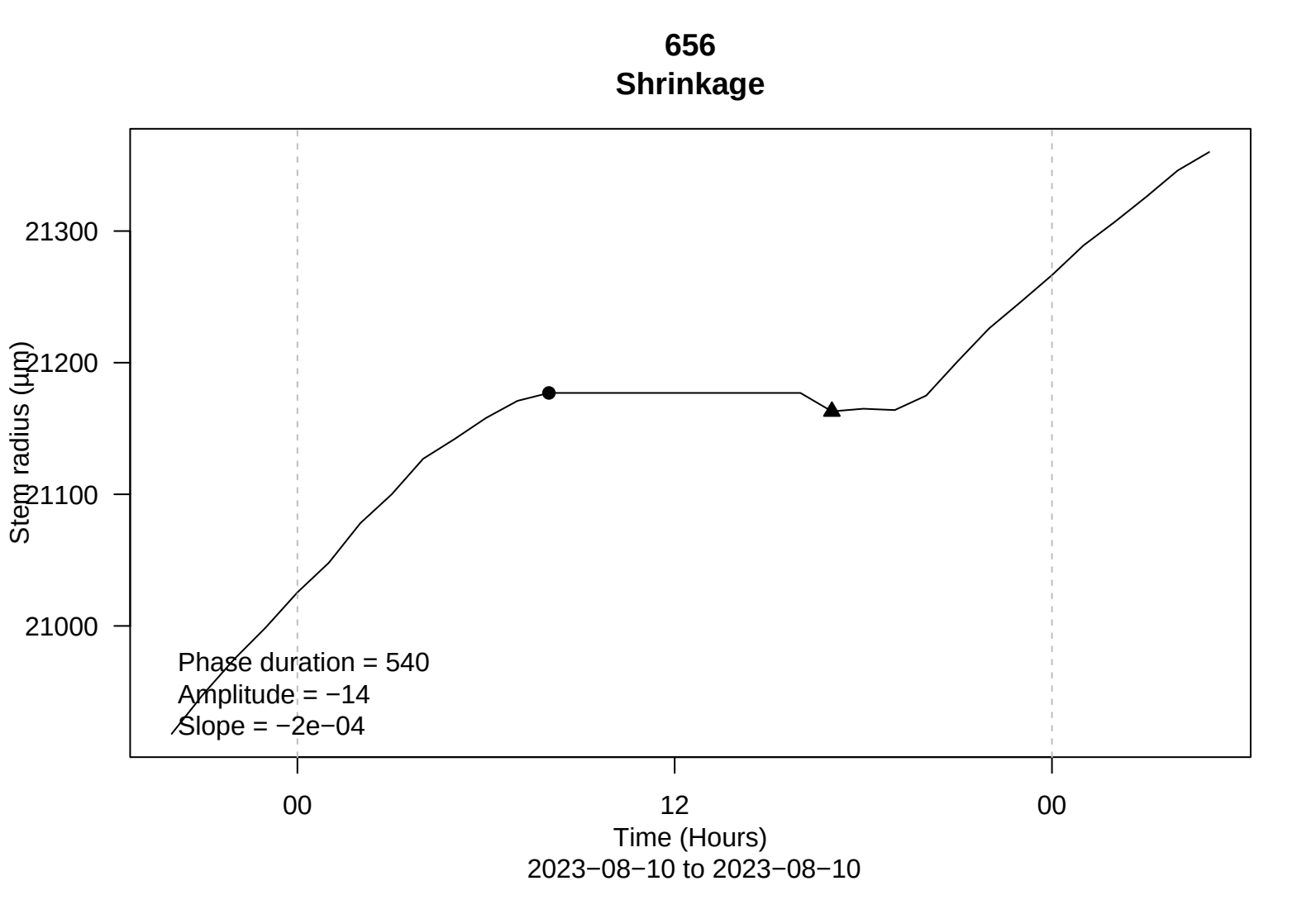

656
Expansion
20800
20750
20700
20650
20600
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−07 to 2023−08−08
Phase duration = 900
Amplitude = 254
Slope = 0.0054

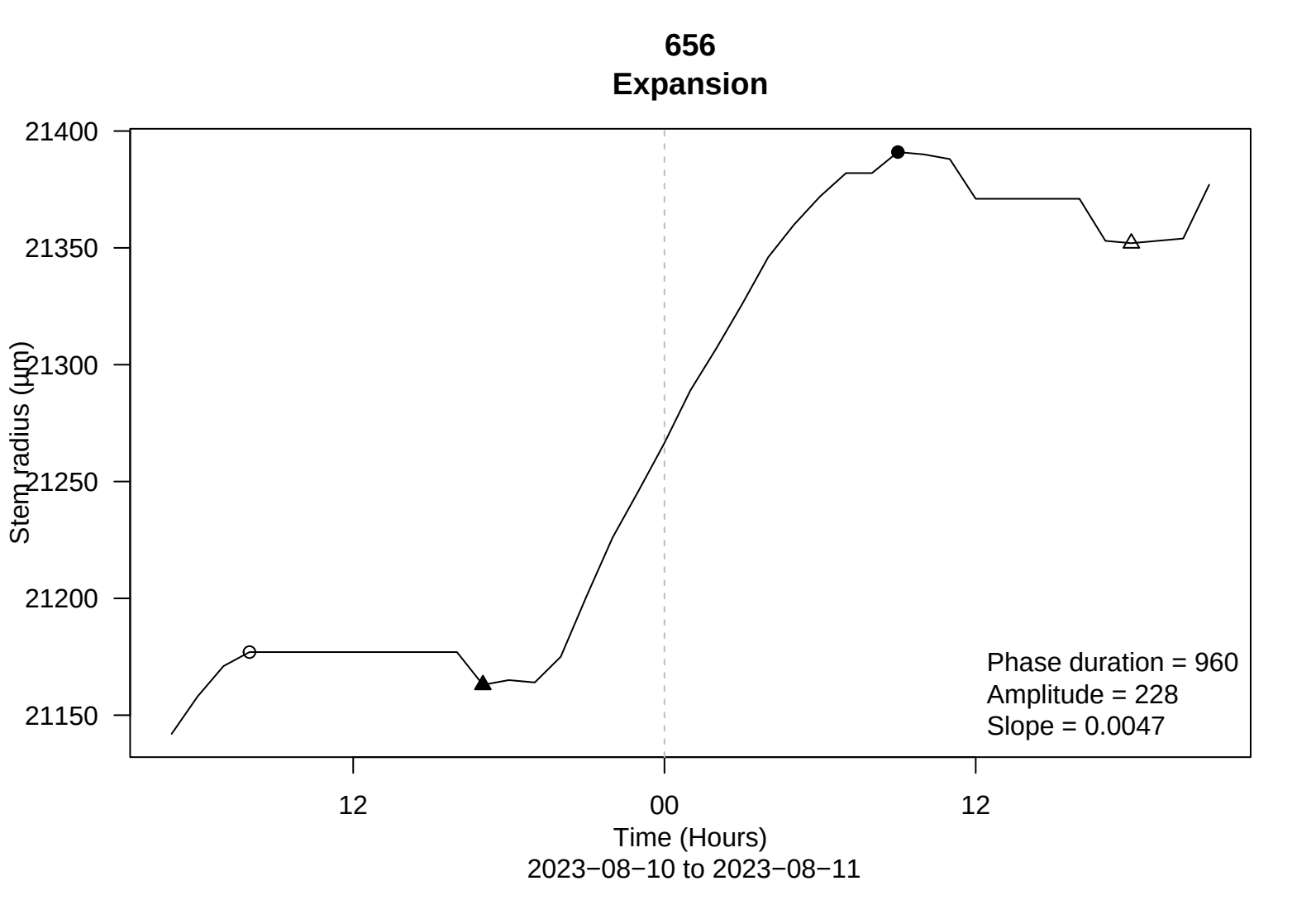

656
Shrinkage
20950
20900
20850
20800
20750
20700
20650
Stem radius (µm)
Phase duration = 540
Amplitude = −72
Slope = −0.0021
00
12
00
Time (Hours)
2023−08−08 to 2023−08−08

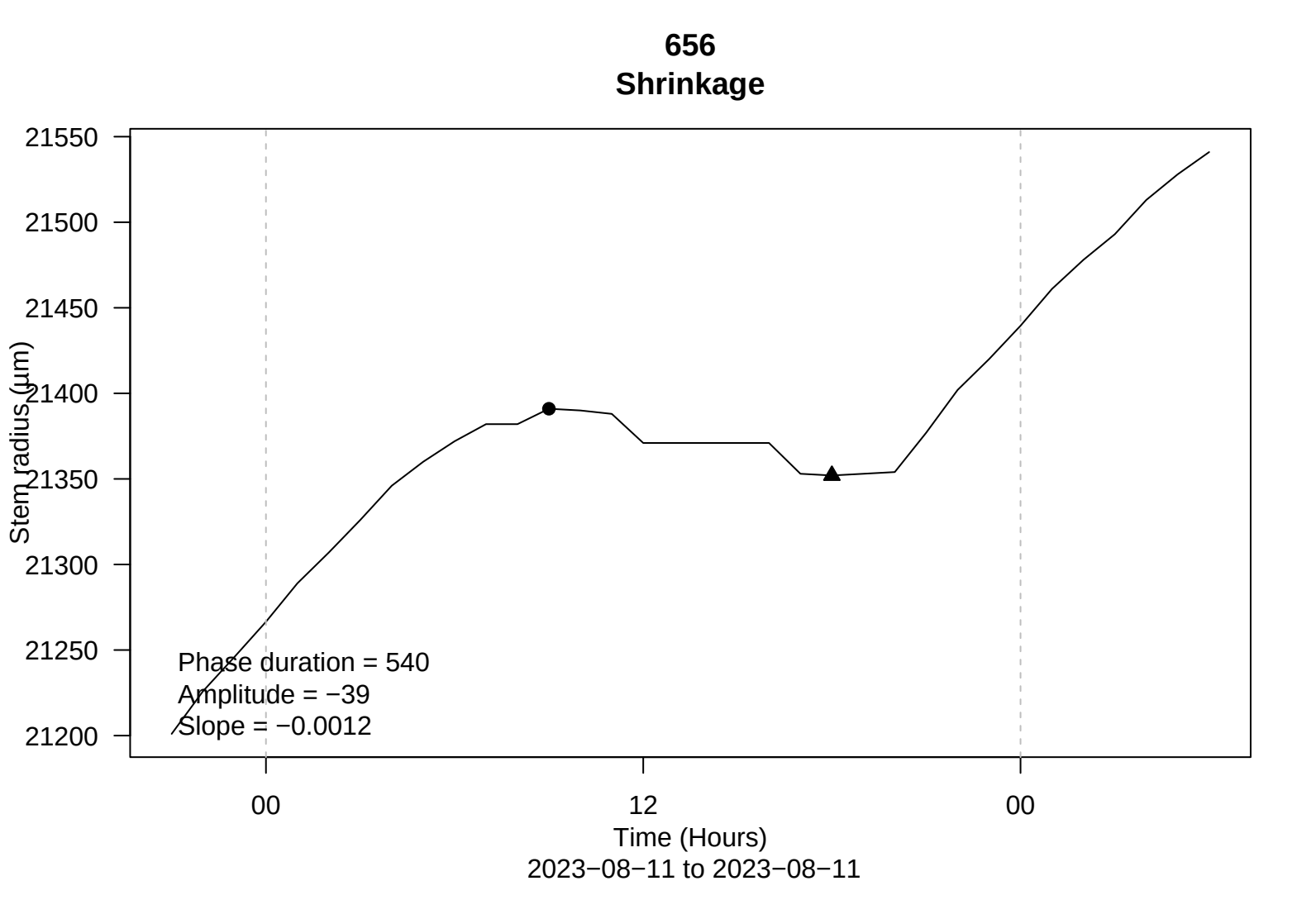

656
Expansion
20950
20900
20850
20800
Stem radius (µm)
Phase duration = 900
Amplitude = 214
Slope = 0.0045
12
00
12
Time (Hours)
2023−08−08 to 2023−08−09

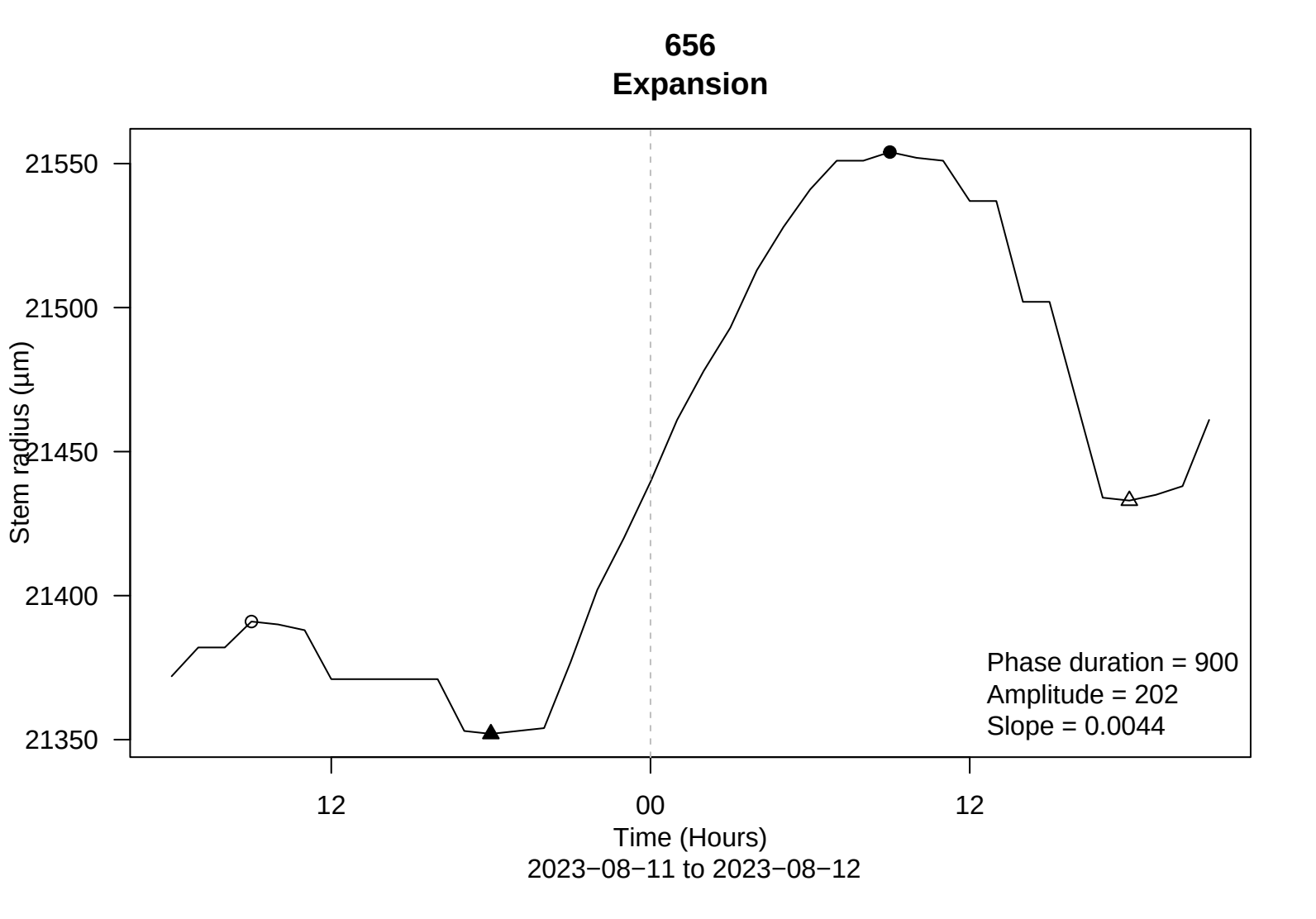

656
Shrinkage
21150
21100
21050
21000
20950
20900
20850
20800
Stem radius (µm)
Phase duration = 540
Amplitude = −69
Slope = −0.0026
00
12
00
Time (Hours)
2023−08−09 to 2023−08−09

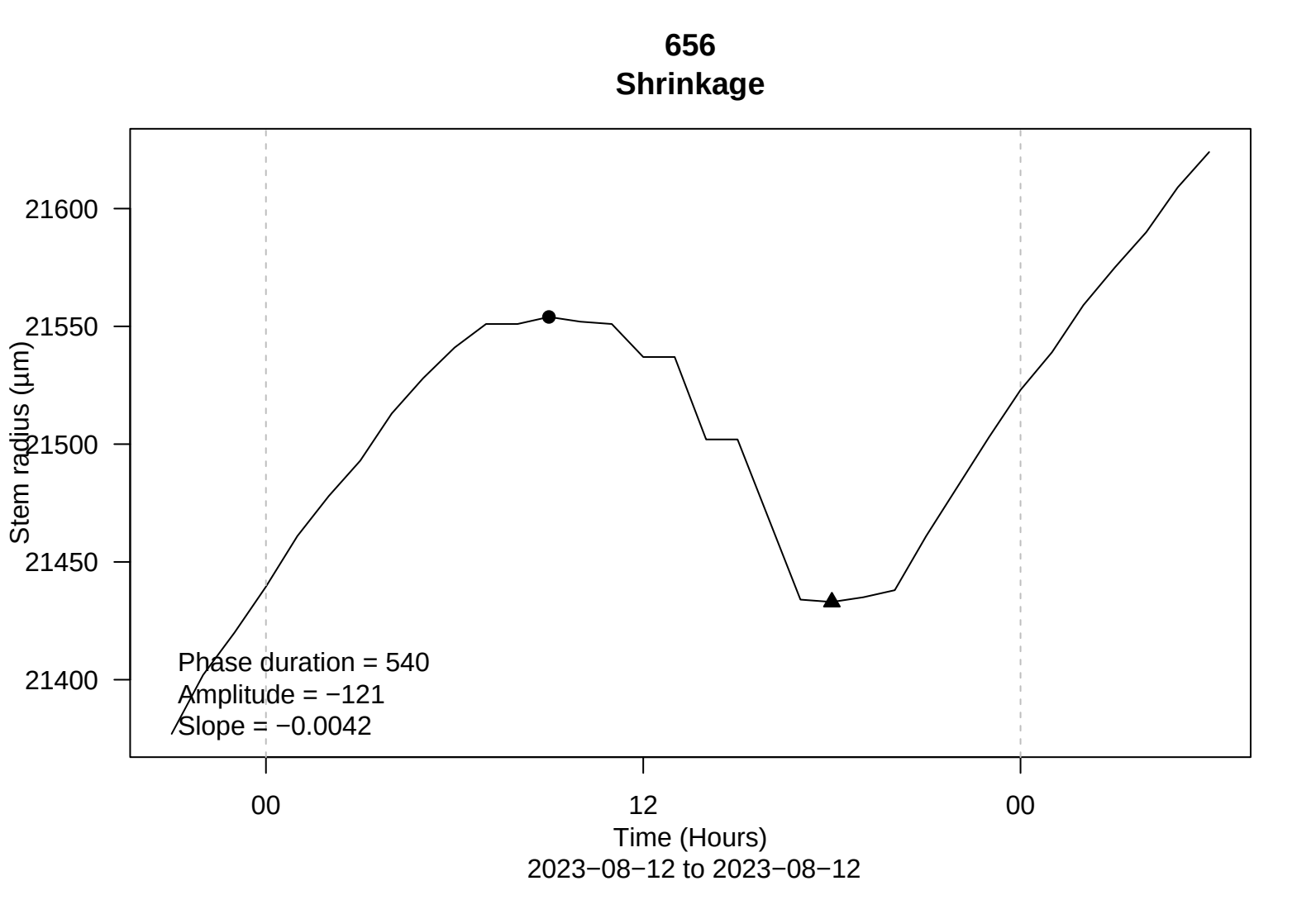

656
Expansion
21150
21100
21050
21000
20950
20900
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−09 to 2023−08−10
Phase duration = 840
Amplitude = 273
Slope = 0.0062

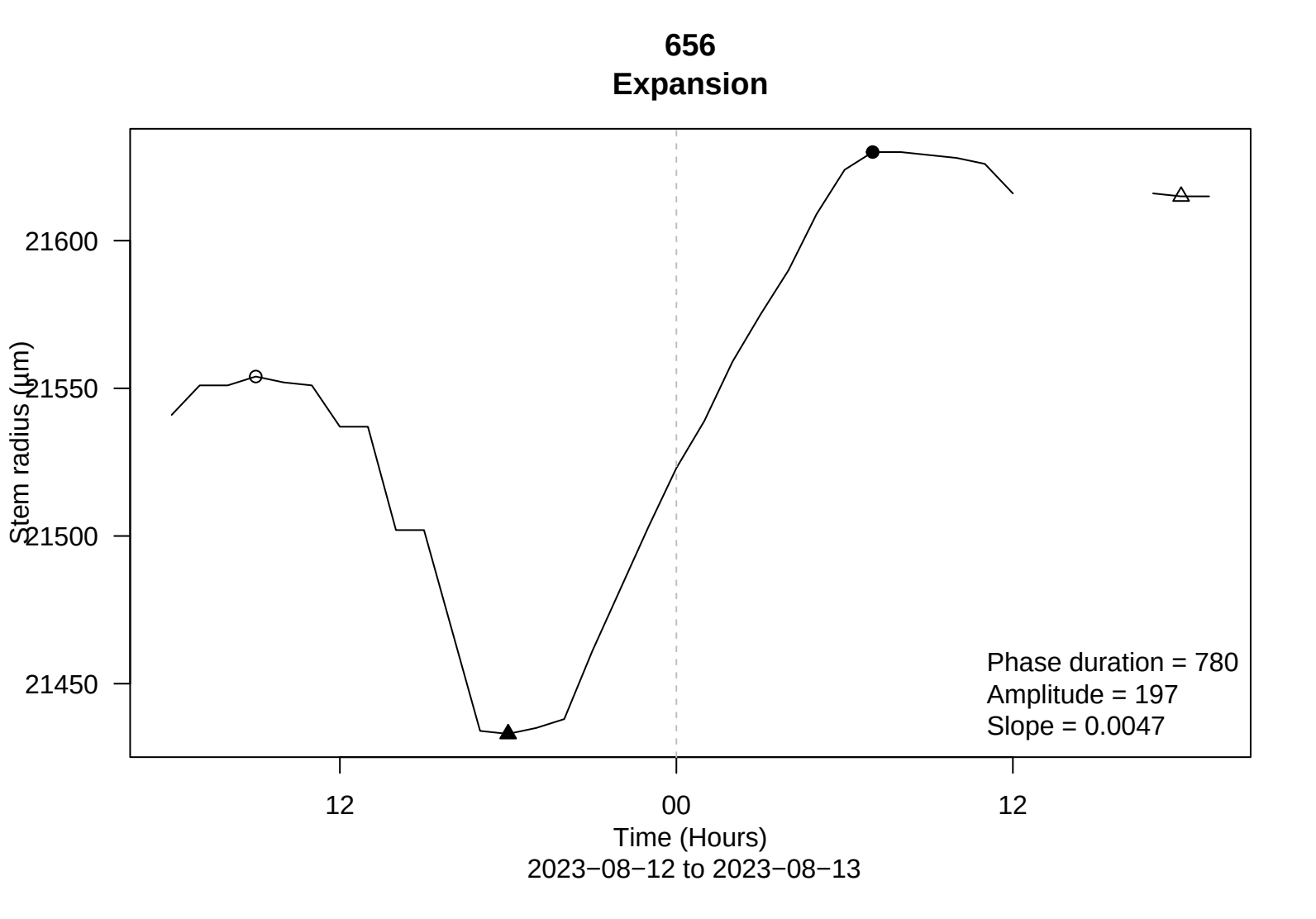

656
Shrinkage
21300
21200
21100
21000
Stem radius (µm)
Phase duration = 540
Amplitude = −14
Slope = −2e−04
00
12
00
Time (Hours)
2023−08−10 to 2023−08−10

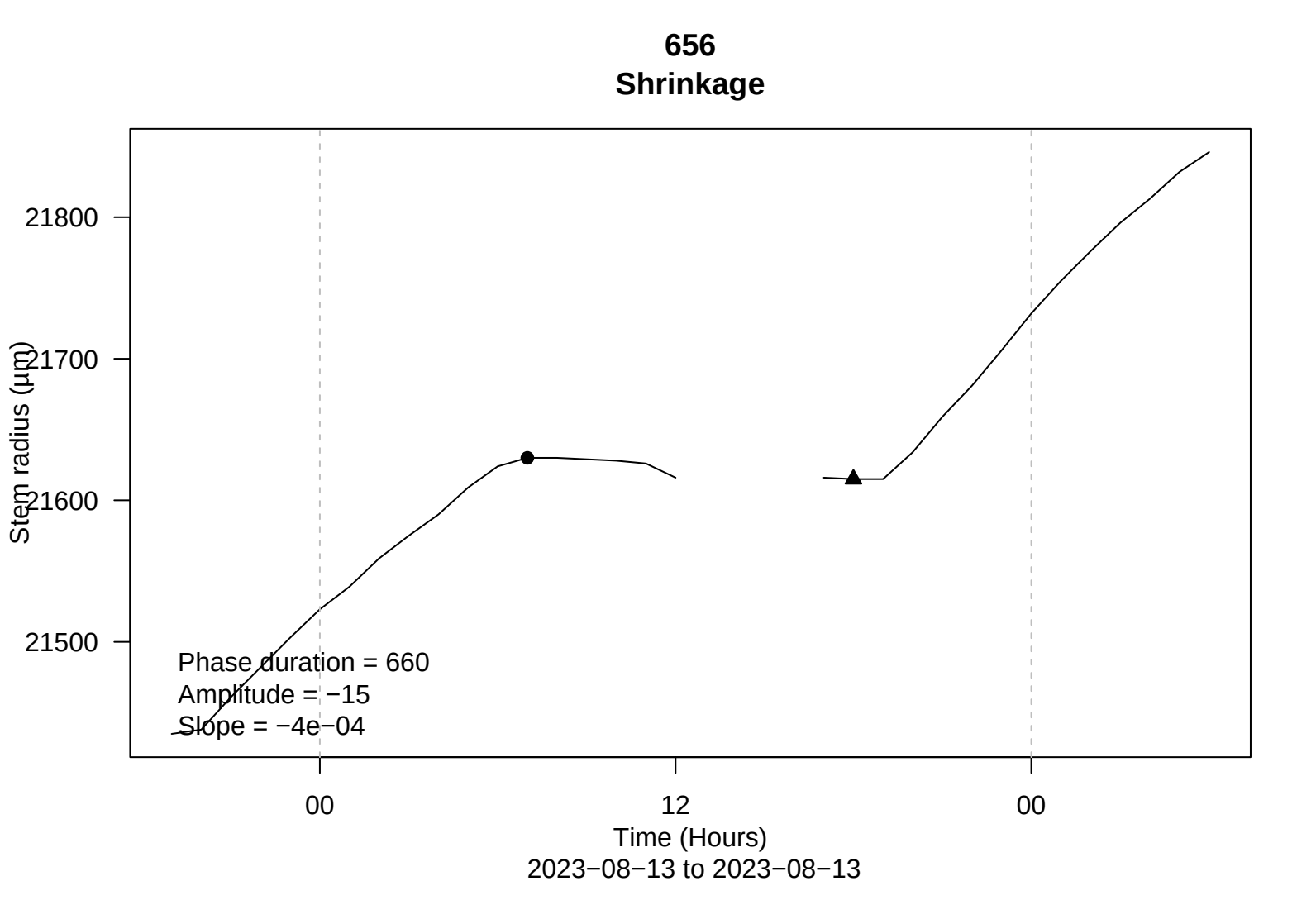

656
Expansion
21400
21350
21300
21250
21200
21150
Stem radius (µm)
Phase duration = 960
Amplitude = 228
Slope = 0.0047
12
00
12
Time (Hours)
2023−08−10 to 2023−08−11

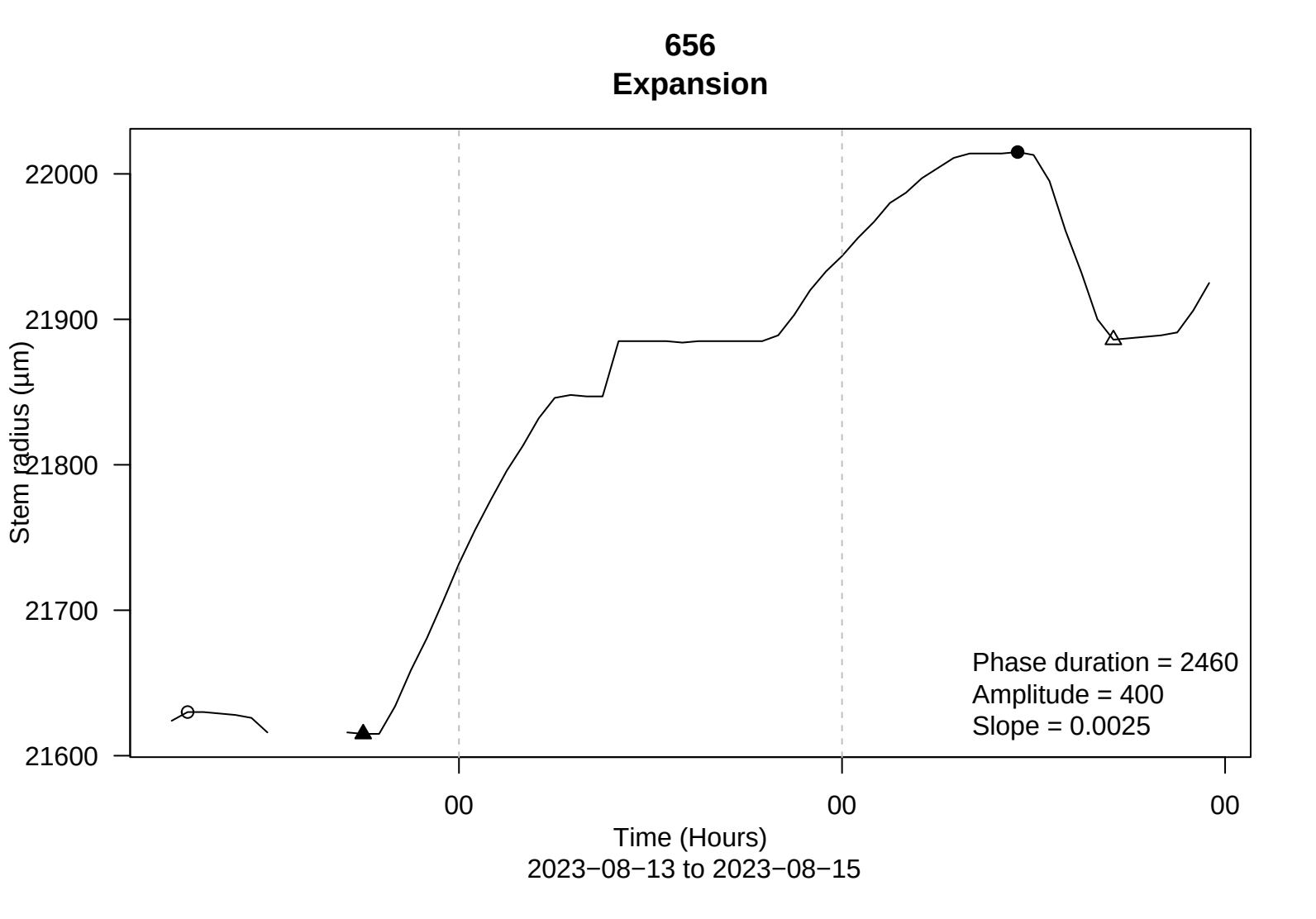

656
Shrinkage
21550
21500
21450
21400
21350
21300
21250
21200
Stem radius (µm)
Phase duration = 540
Amplitude = −39
Slope = −0.0012
00
12
00
Time (Hours)
2023−08−11 to 2023−08−11

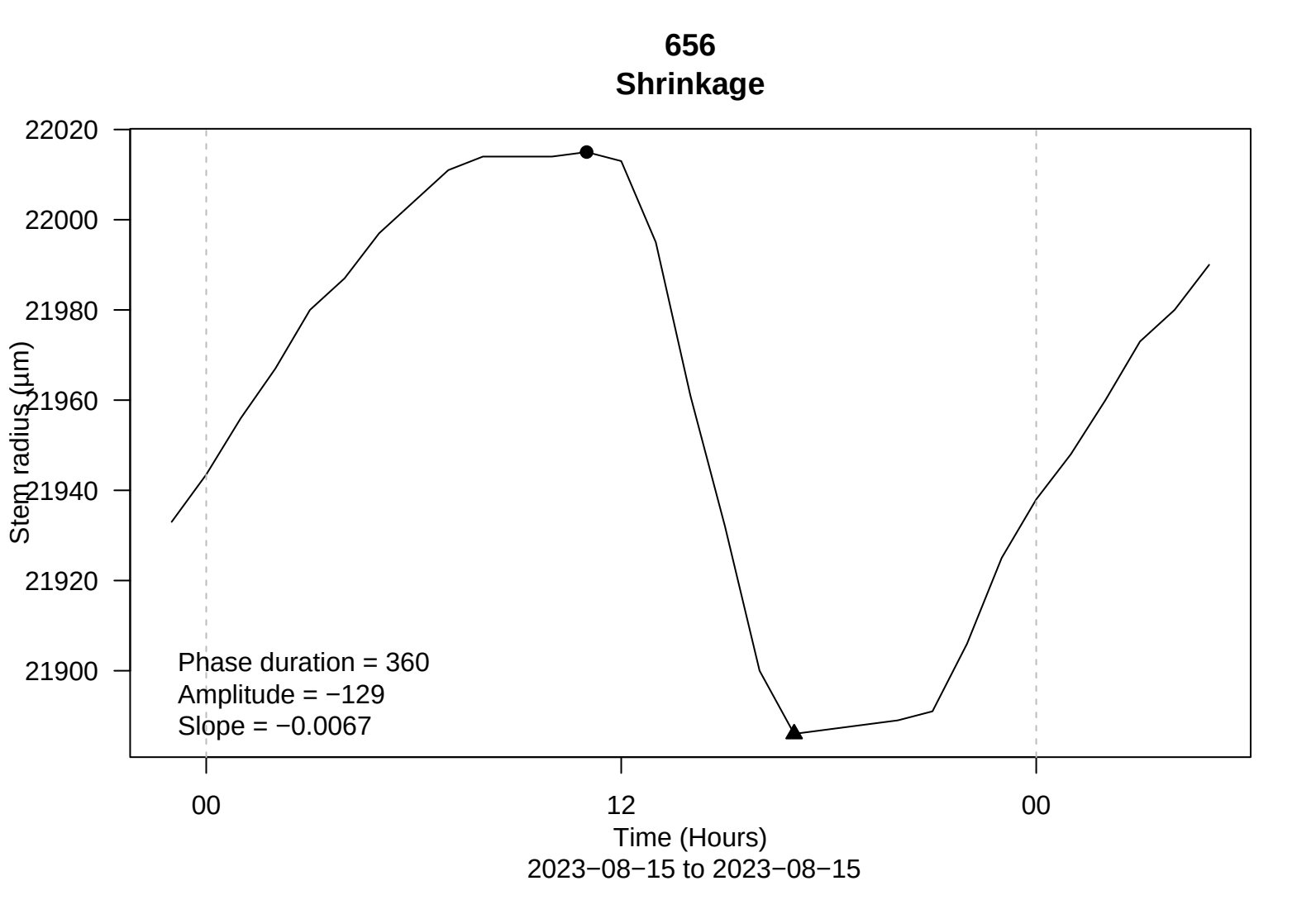

656
Expansion
21550
21500
21450
21400
21350
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−11 to 2023−08−12
Phase duration = 900
Amplitude = 202
Slope = 0.0044

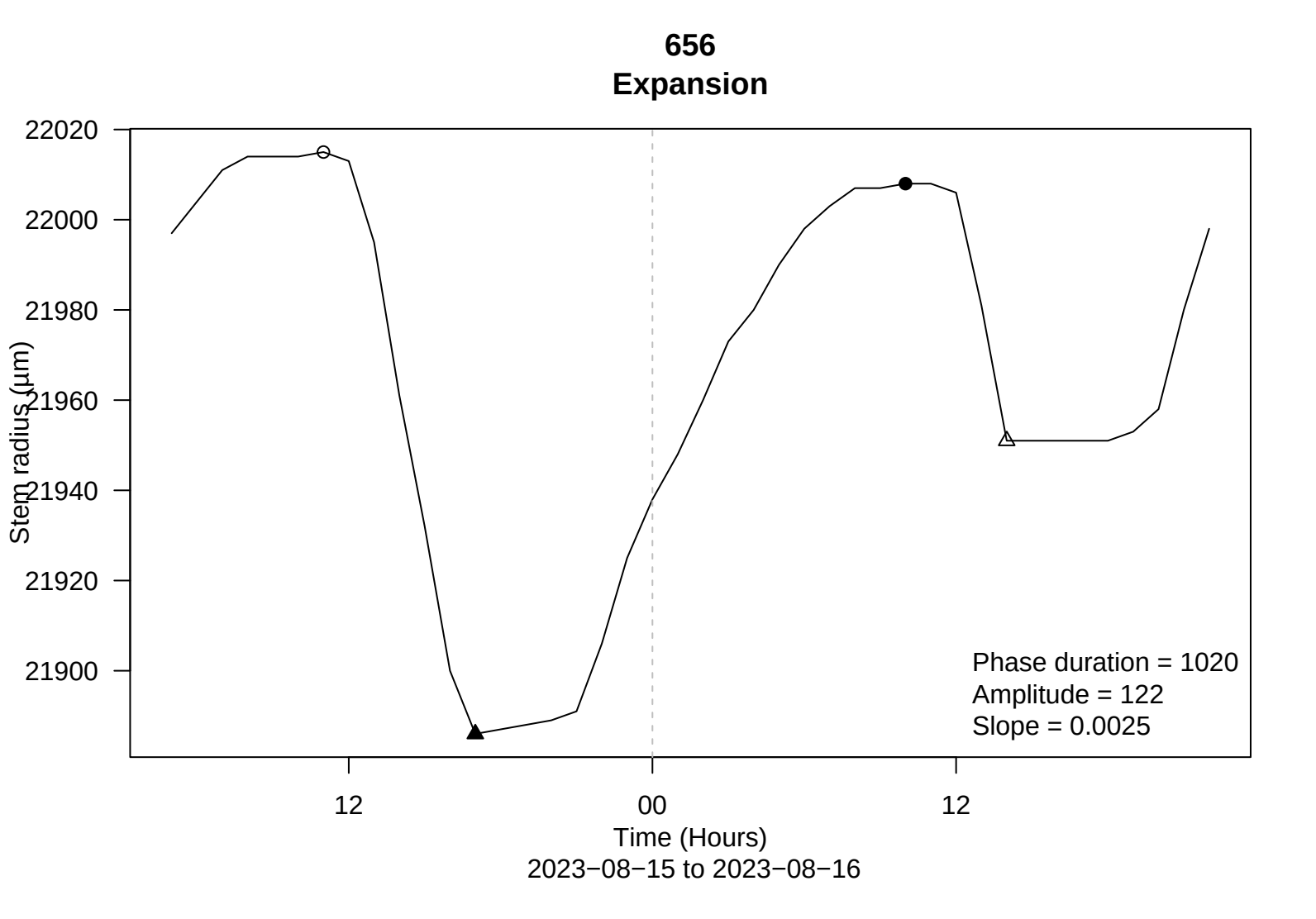

656
Shrinkage
21600
21550
21500
21450
21400
Stem radius (µm)
Phase duration = 540
Amplitude = −121
Slope = −0.0042
00
12
00
Time (Hours)
2023−08−12 to 2023−08−12

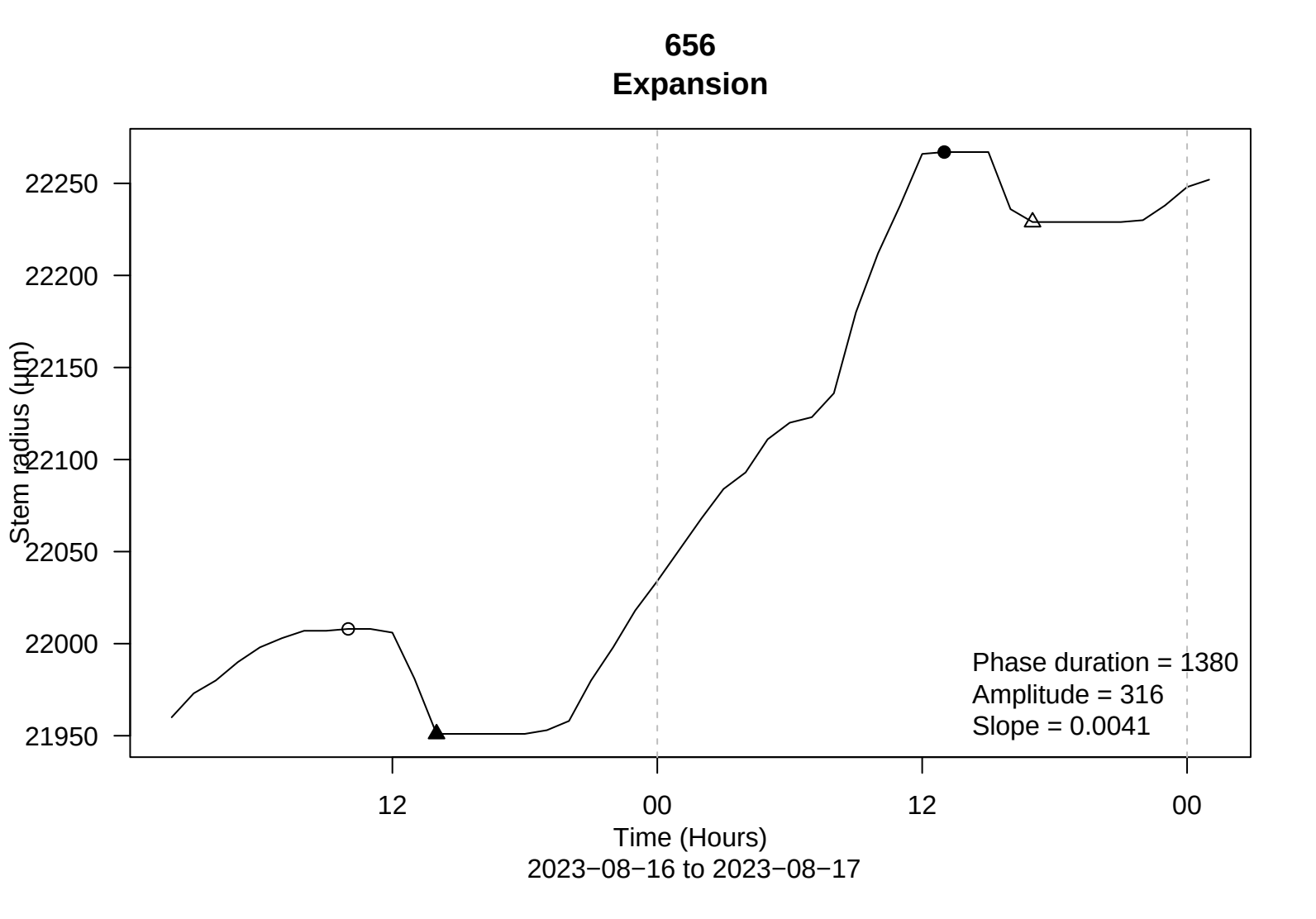

656
Expansion
21600
21550
21500
21450
Stem radius (µm)
Phase duration = 780
Amplitude = 197
Slope = 0.0047
12
00
12
Time (Hours)
2023−08−12 to 2023−08−13

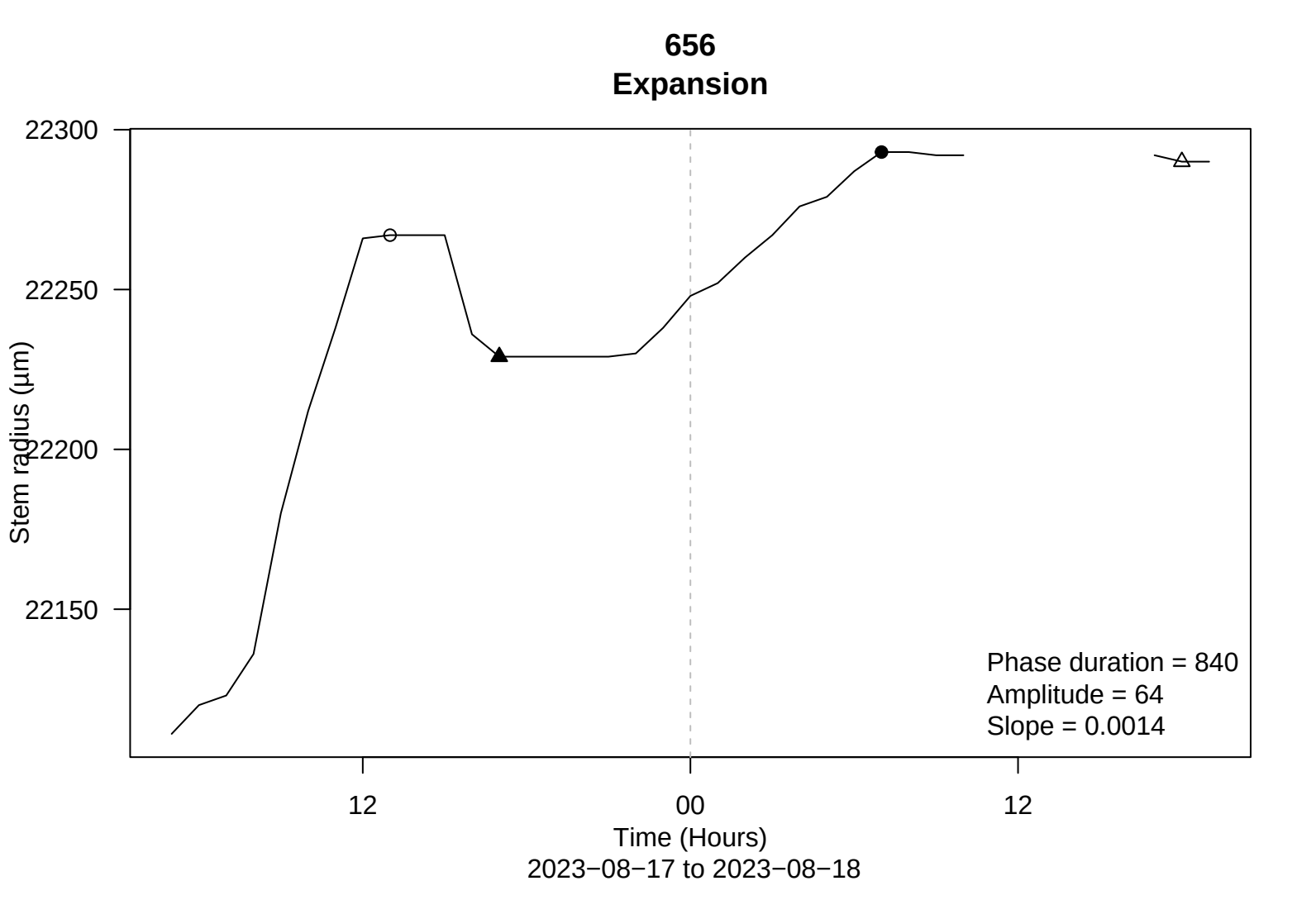

656
Shrinkage
21800
21700
21600
21500
Stem radius (µm)
Phase duration = 660
Amplitude = −15
Slope = −4e−04
00
12
00
Time (Hours)
2023−08−13 to 2023−08−13

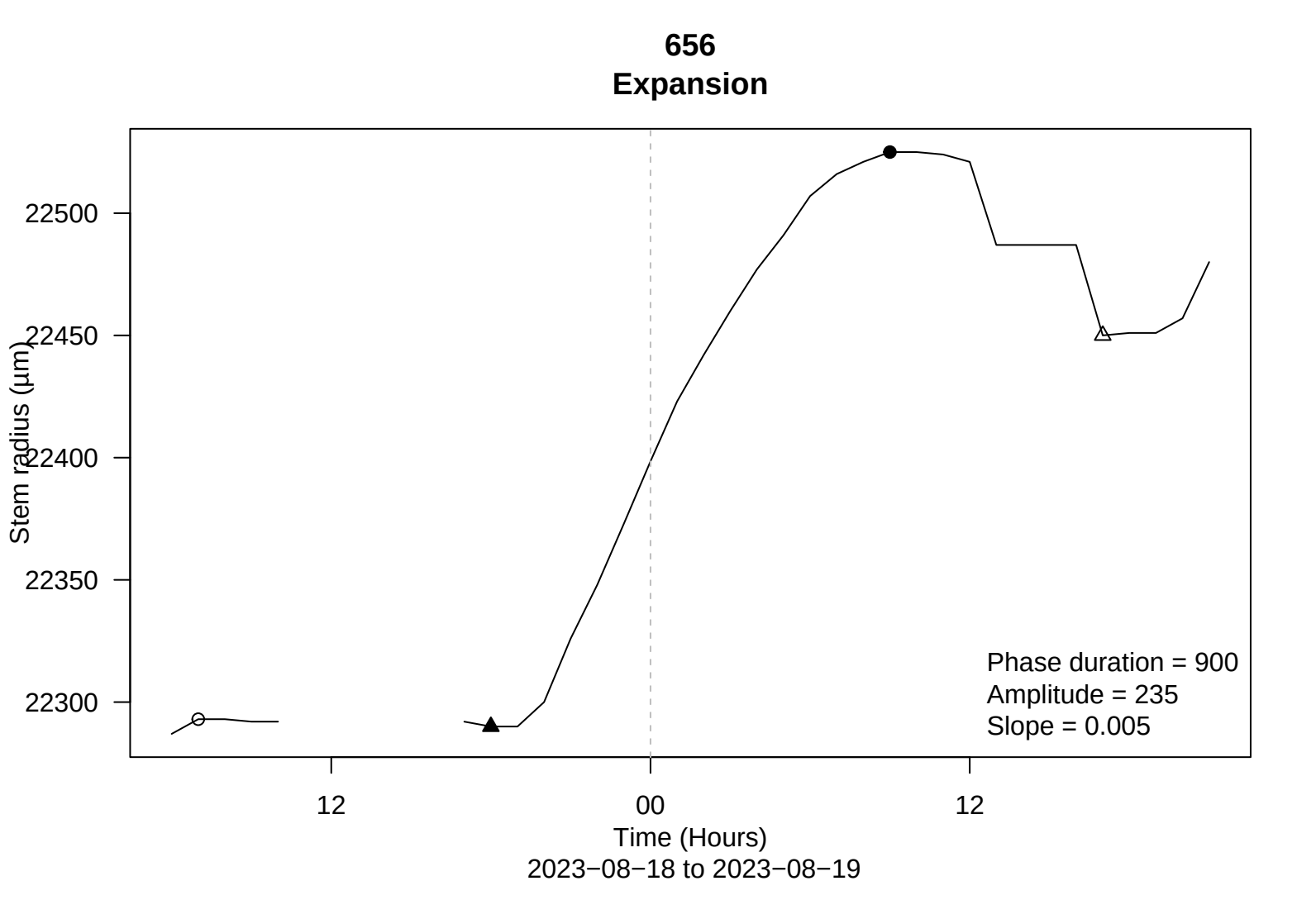

656
Expansion
22000
21900
21800
21700
21600
Stem radius (µm)
00
00
00
Time (Hours)
2023−08−13 to 2023−08−15
Phase duration = 2460
Amplitude = 400
Slope = 0.0025

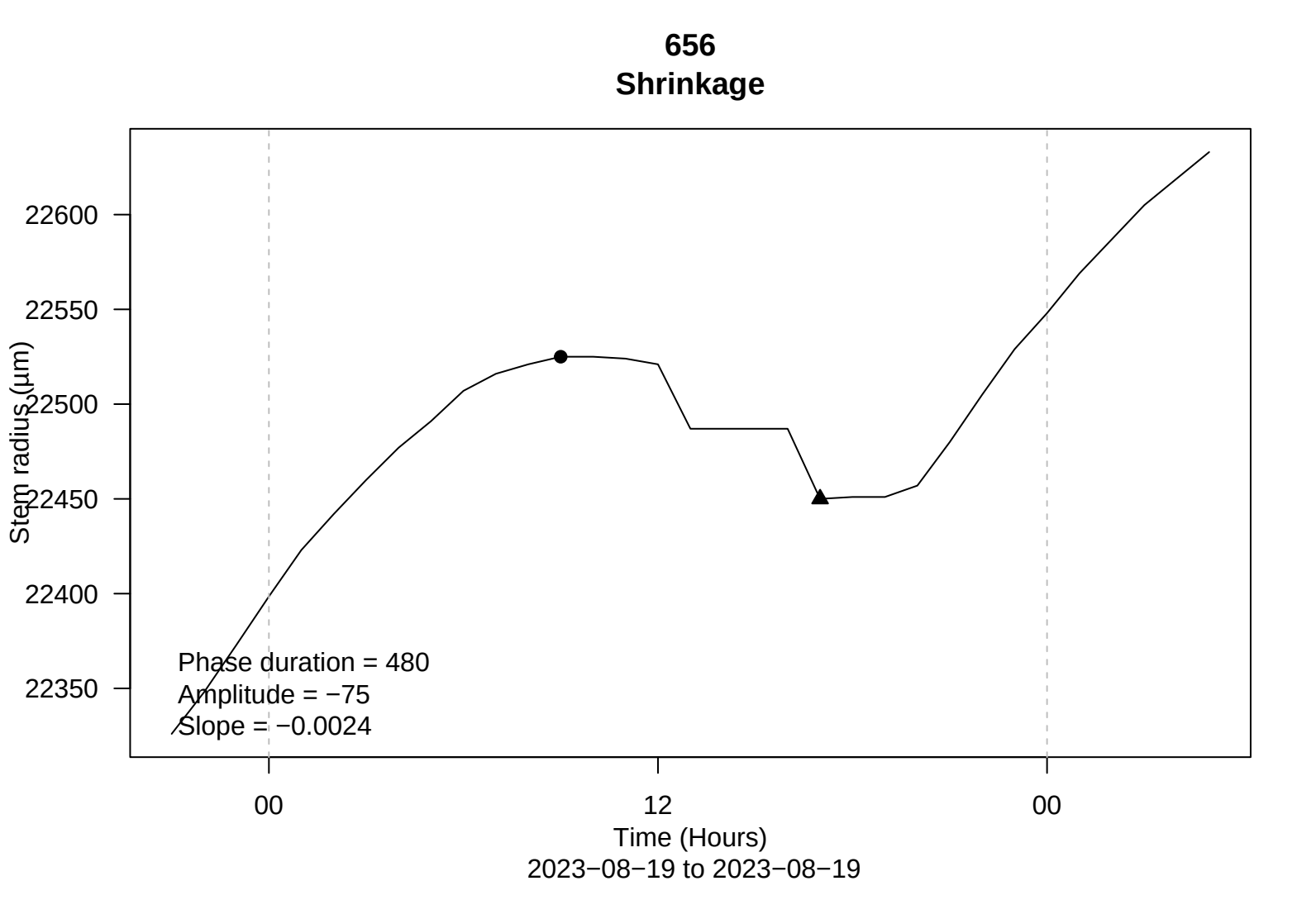

656
Shrinkage
22020
22000
21980
21960
21940
21920
21900
Stem radius (µm)
Phase duration = 360
Amplitude = −129
Slope = −0.0067
00
12
00
Time (Hours)
2023−08−15 to 2023−08−15

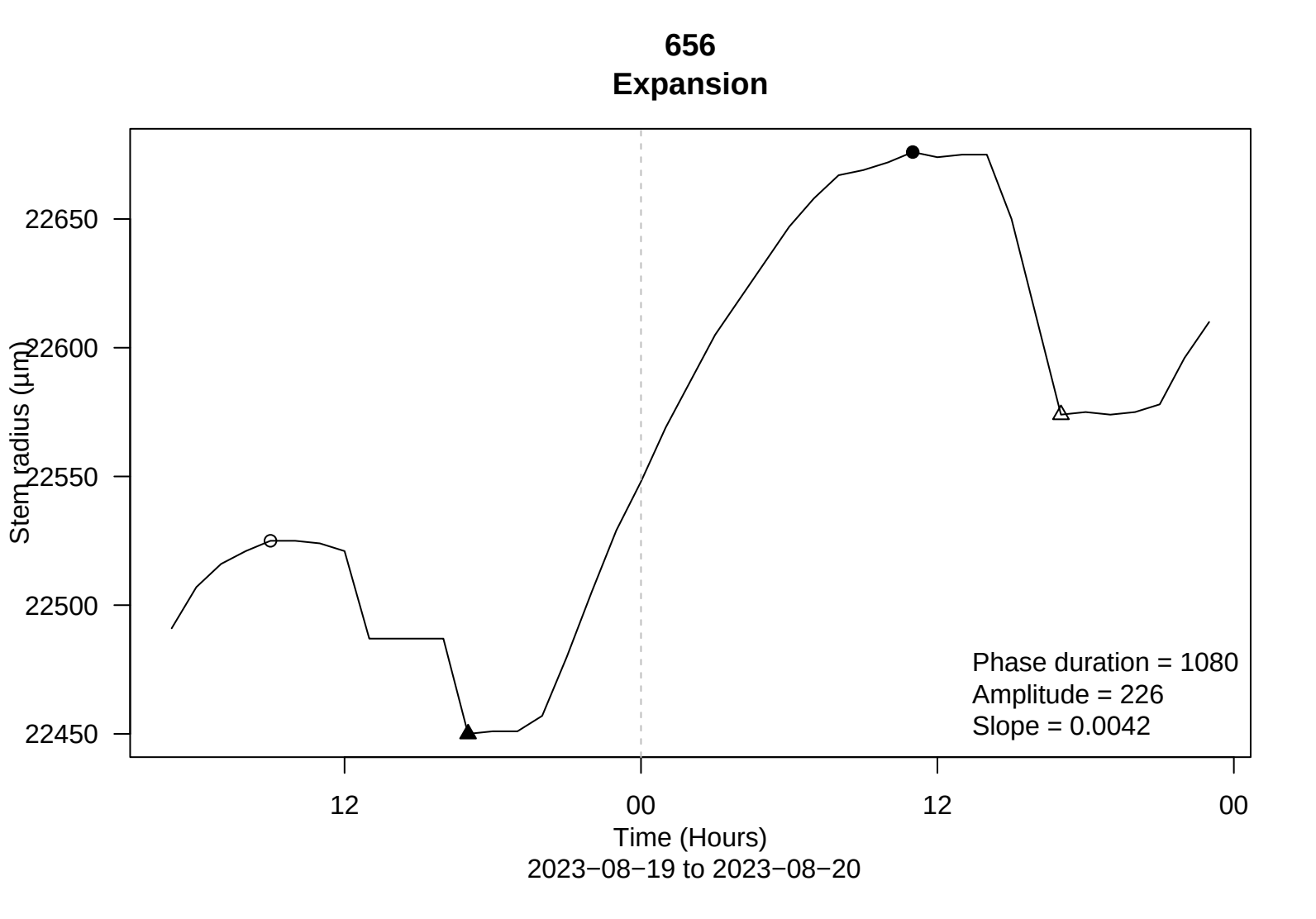

656
Expansion
22020
22000
21980
21960
21940
21920
21900
Stem radius (µm)
Phase duration = 1020
Amplitude = 122
Slope = 0.0025
12
00
12
Time (Hours)
2023−08−15 to 2023−08−16

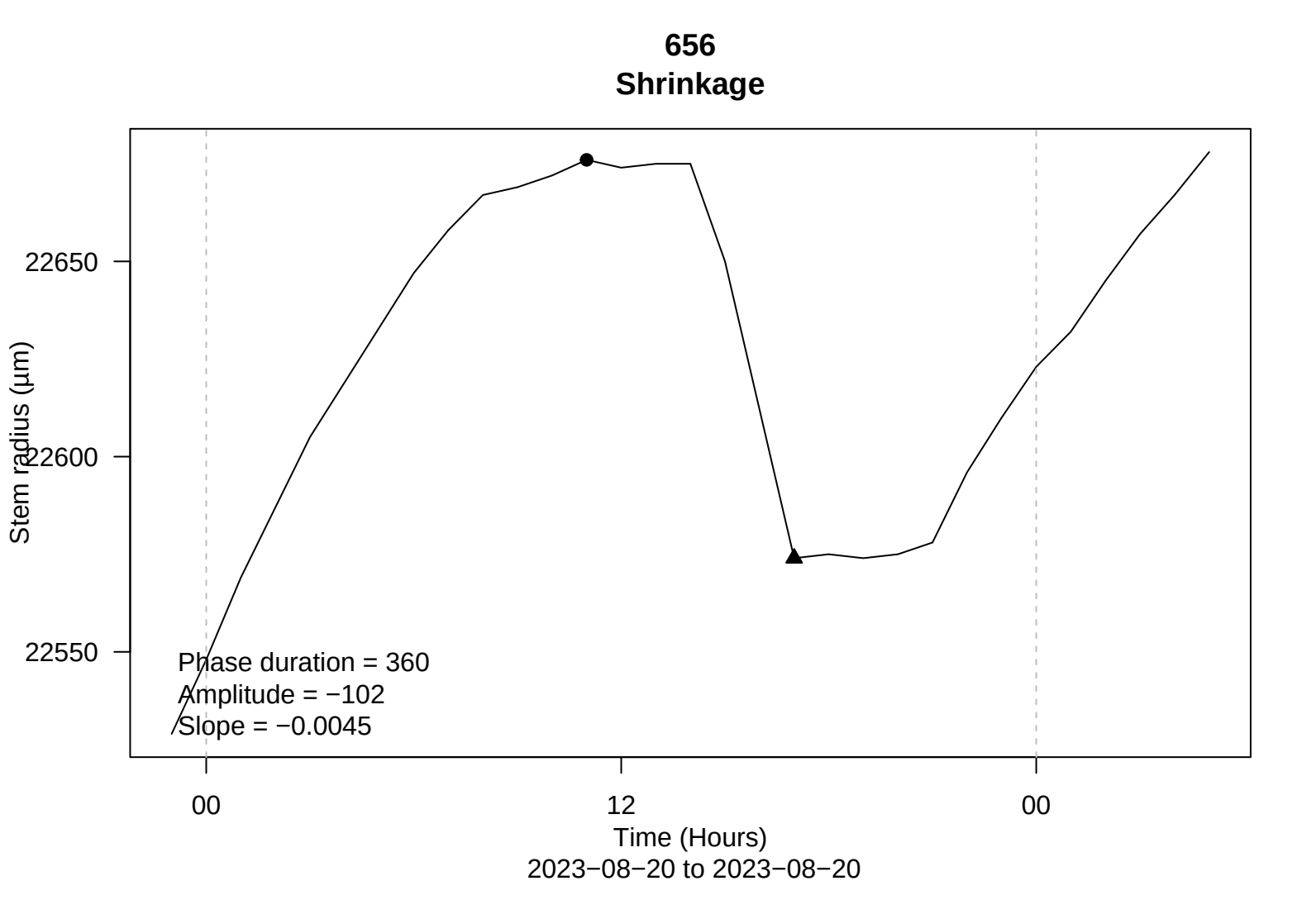

656
Expansion
22250
22200
22150
22100
22050
22000
21950
Stem radius (µm)
Phase duration = 1380
Amplitude = 316
Slope = 0.0041
12
00
12
00
Time (Hours)
2023−08−16 to 2023−08−17

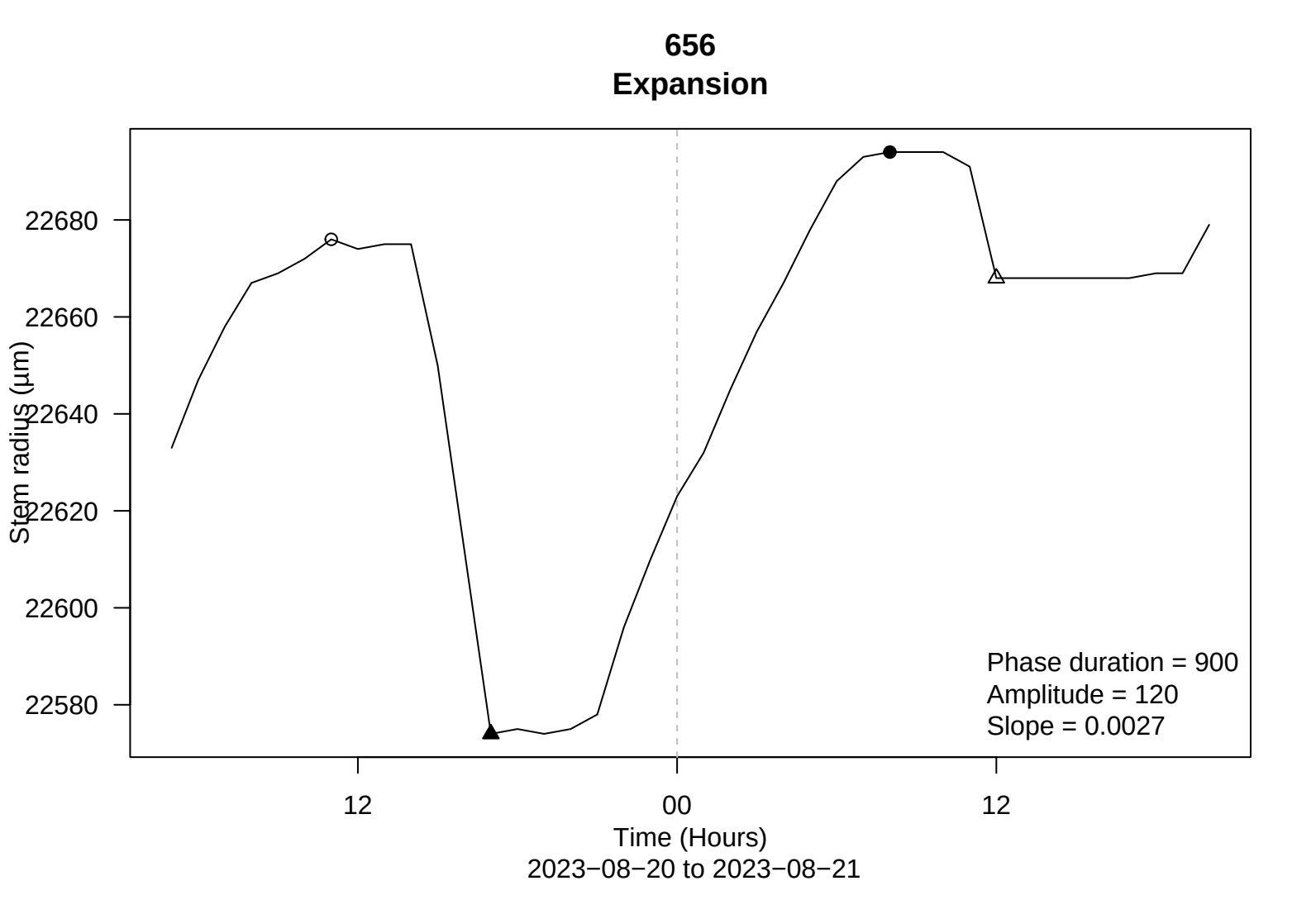

656
Expansion
22300
22250
22200
22150
Stem radius (µm)
Phase duration = 840
Amplitude = 64
Slope = 0.0014
12
00
12
Time (Hours)
2023−08−17 to 2023−08−18

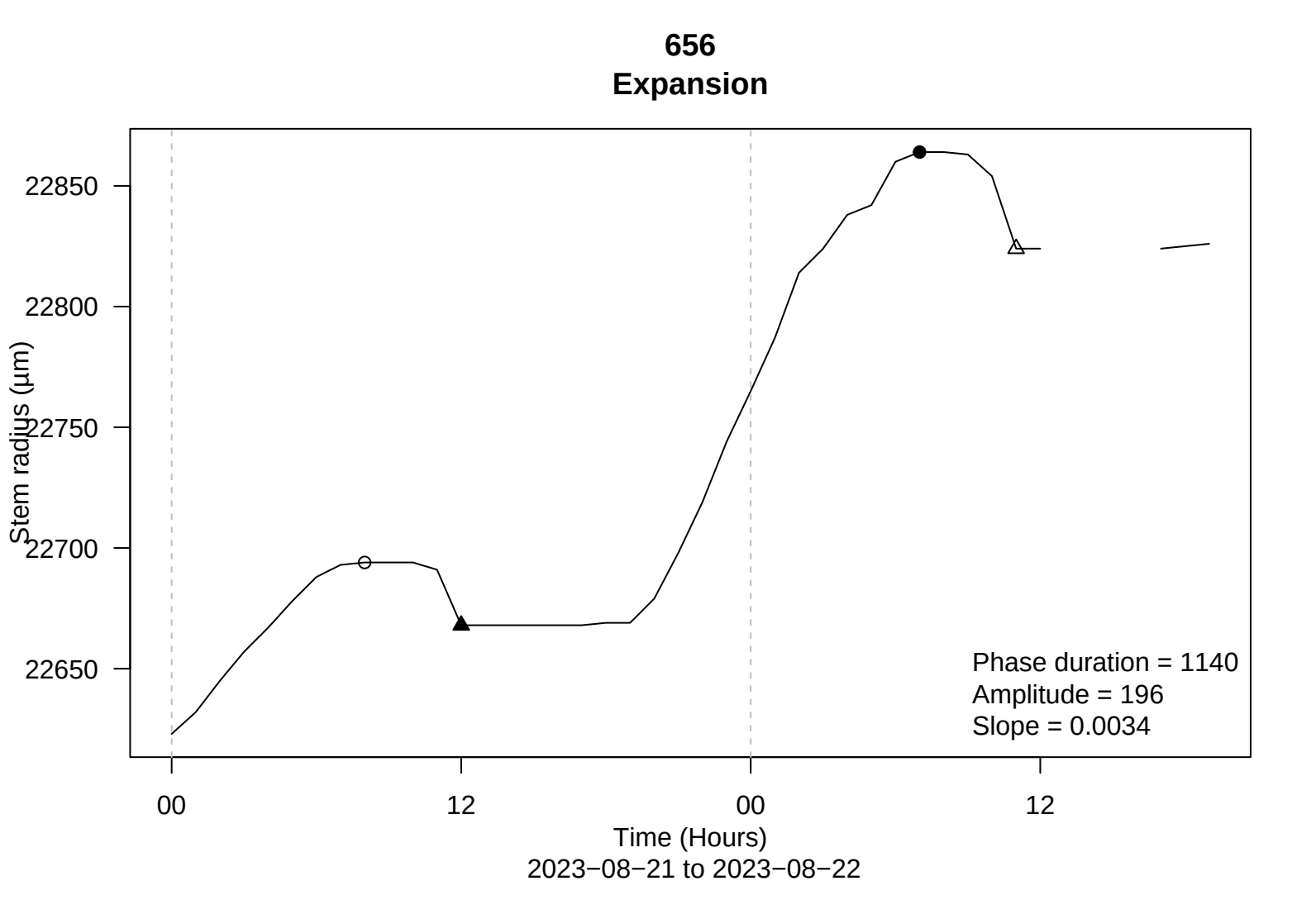

656
Expansion
22500
22450
22400
22350
22300
Stem radius (µm)
Phase duration = 900
Amplitude = 235
Slope = 0.005
12
00
12
Time (Hours)
2023−08−18 to 2023−08−19

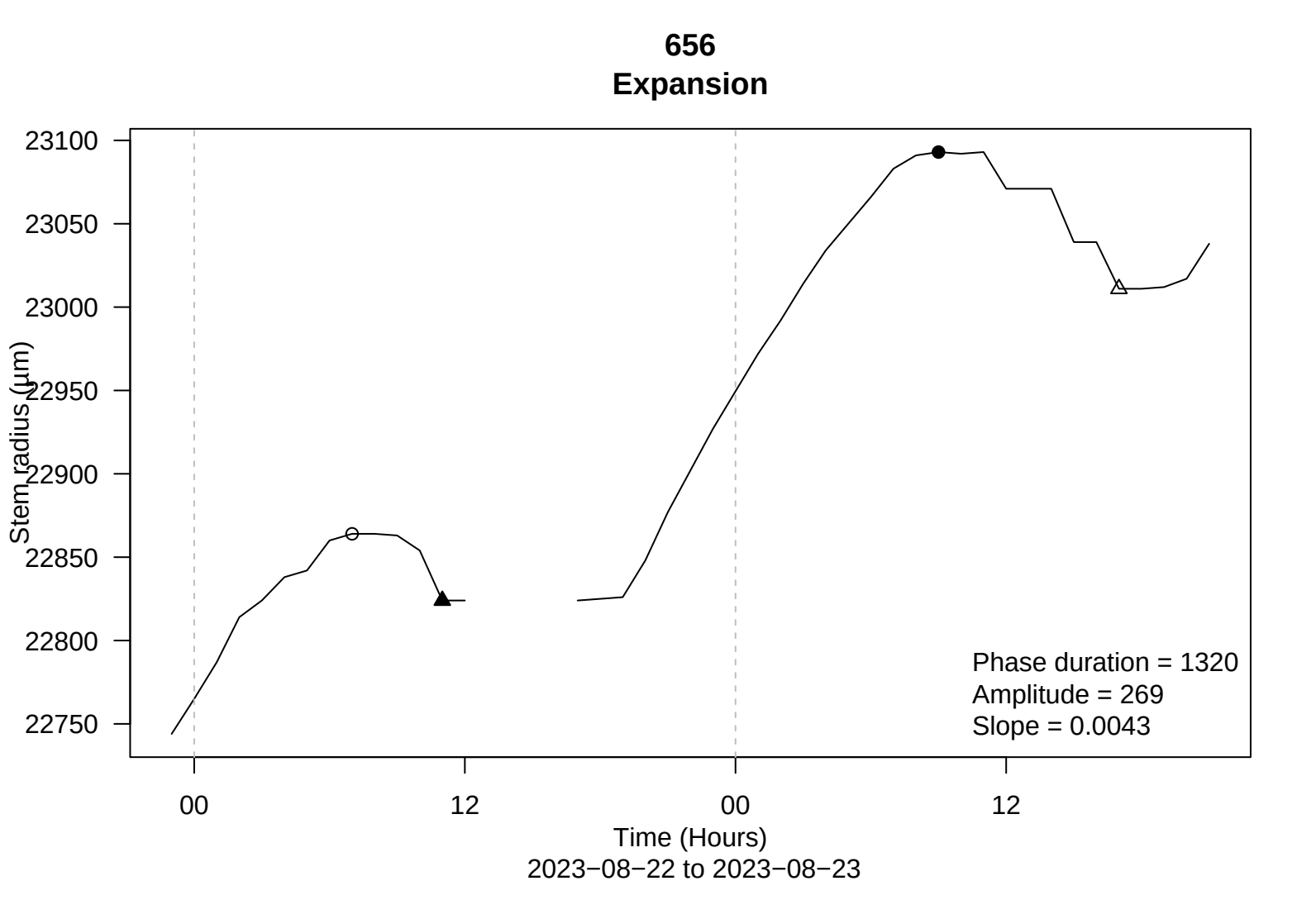

656
Shrinkage
22600
22550
22500
22450
22400
22350
Stem radius (µm)
Phase duration = 480
Amplitude = −75
Slope = −0.0024
00
12
00
Time (Hours)
2023−08−19 to 2023−08−19

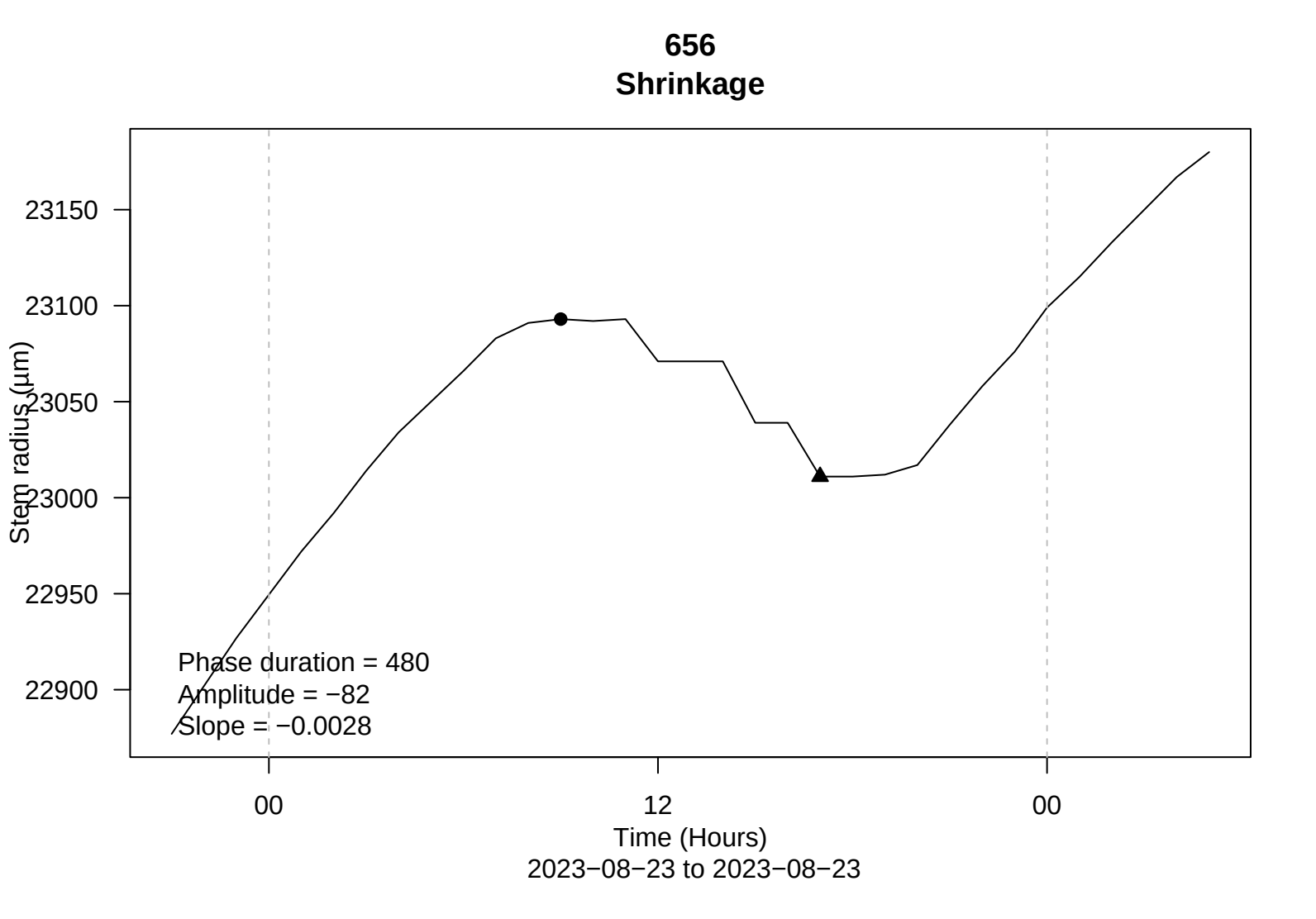

656
Expansion
22650
22600
22550
22500
22450
Stem radius (µm)
Phase duration = 1080
Amplitude = 226
Slope = 0.0042
12
00
12
00
Time (Hours)
2023−08−19 to 2023−08−20

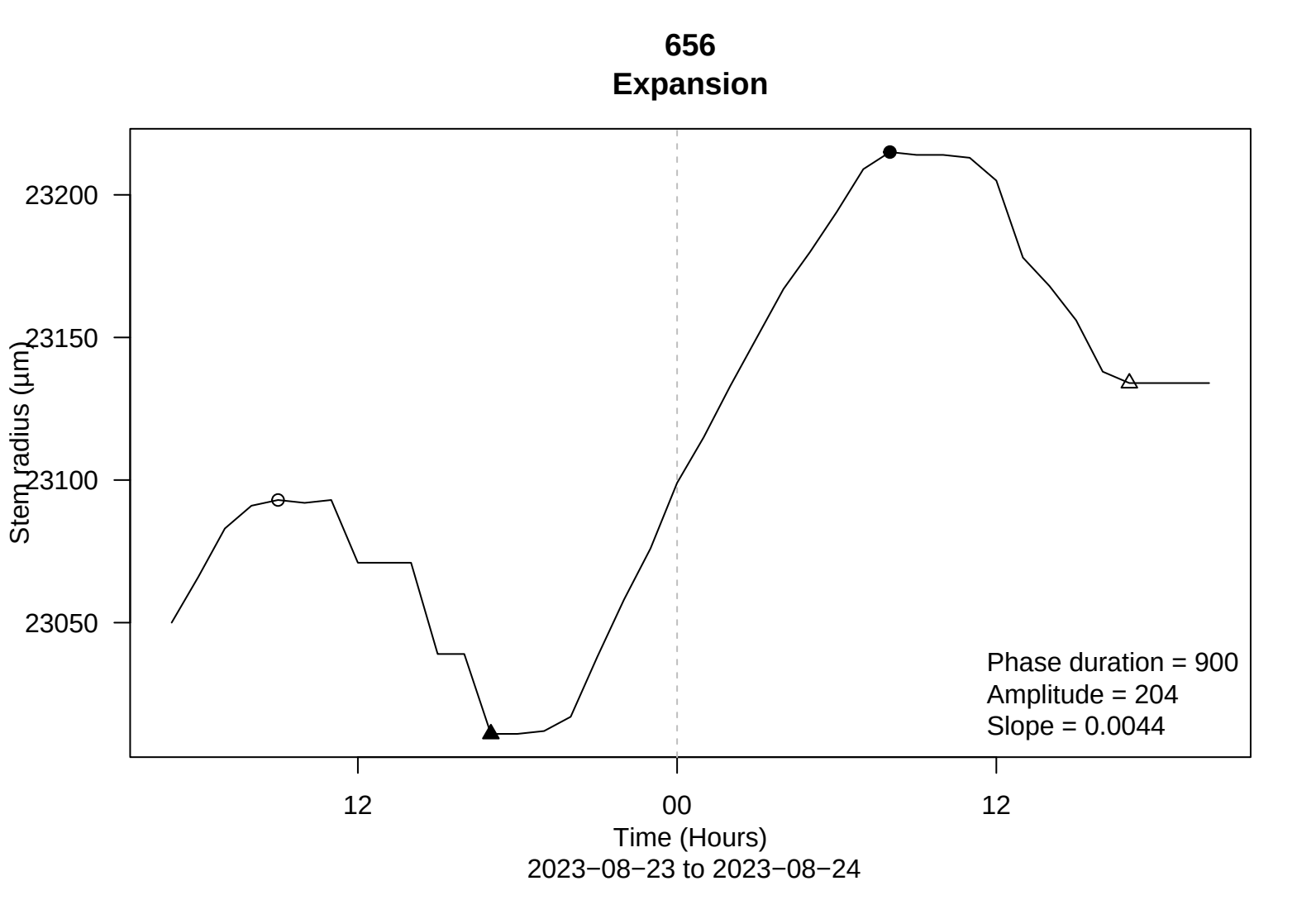

656
Shrinkage
22650
22600
22550
Stem radius (µm)
Phase duration = 360
Amplitude = −102
Slope = −0.0045
00
12
00
Time (Hours)
2023−08−20 to 2023−08−20

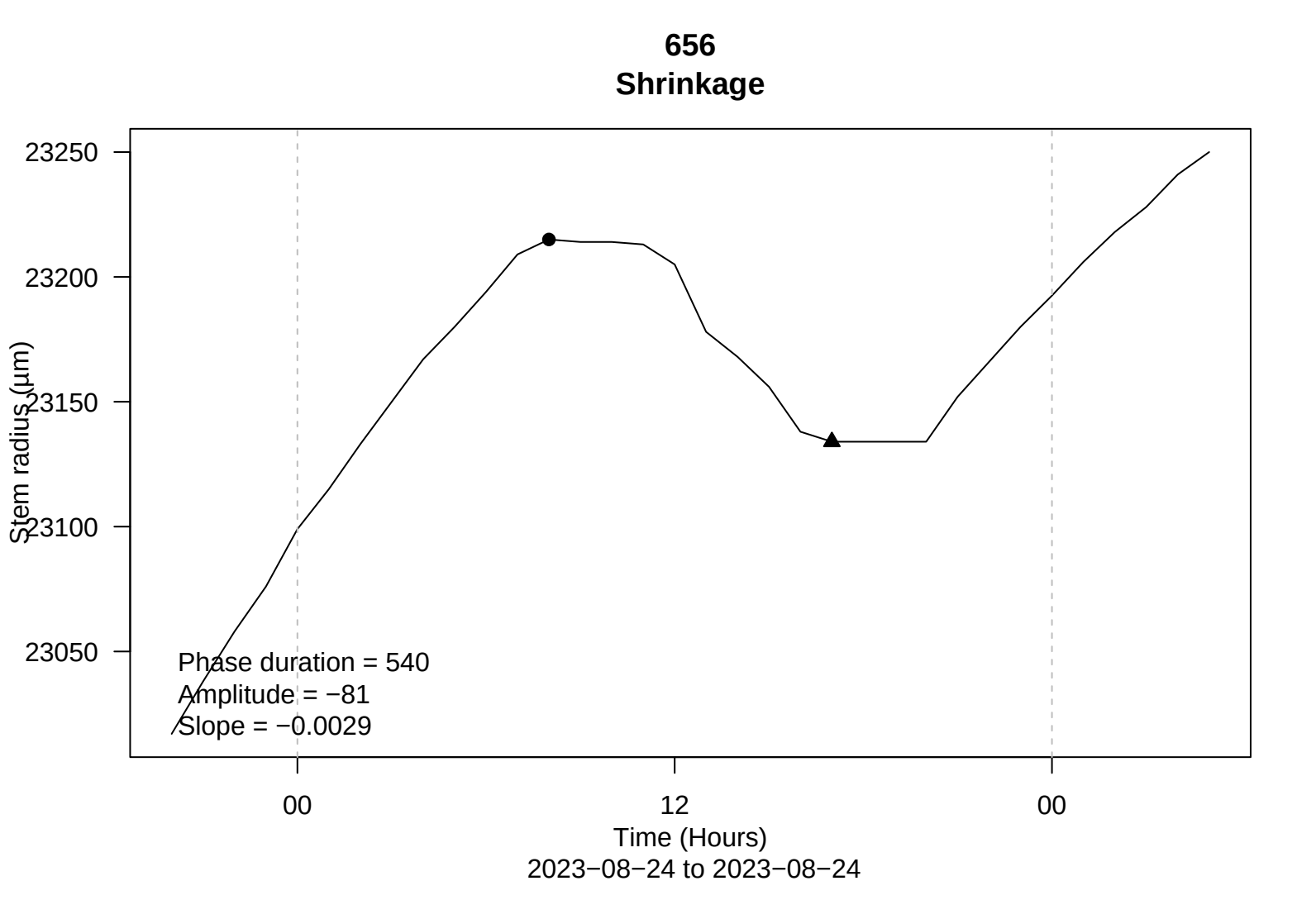

656
Expansion
22680
22660
22640
22620
22600
22580
Stem radius (µm)
Phase duration = 900
Amplitude = 120
Slope = 0.0027
12
00
12
Time (Hours)
2023−08−20 to 2023−08−21

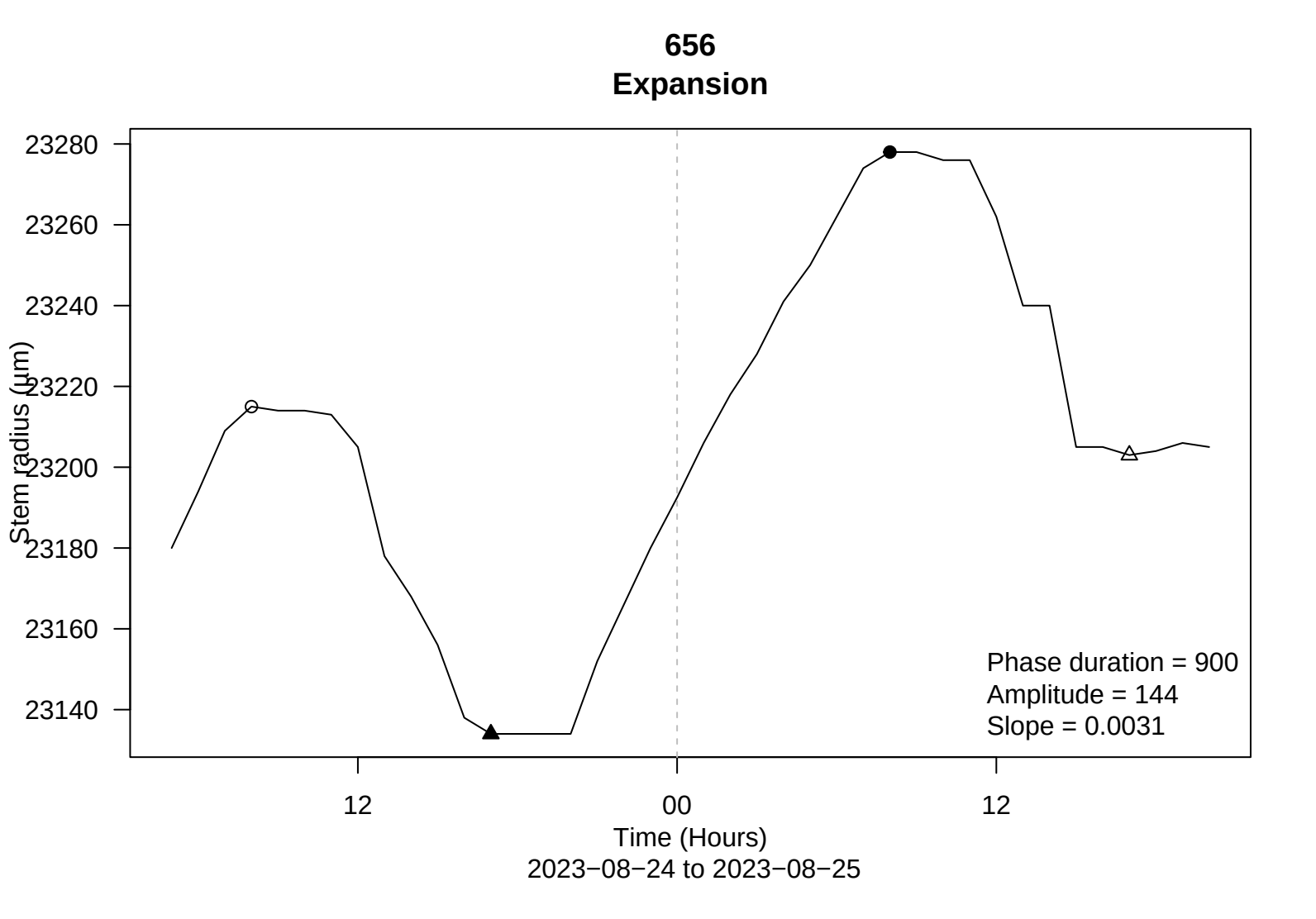

656
Expansion
22850
22800
22750
22700
22650
Stem radius (µm)
Phase duration = 1140
Amplitude = 196
Slope = 0.0034
00
12
00
12
Time (Hours)
2023−08−21 to 2023−08−22

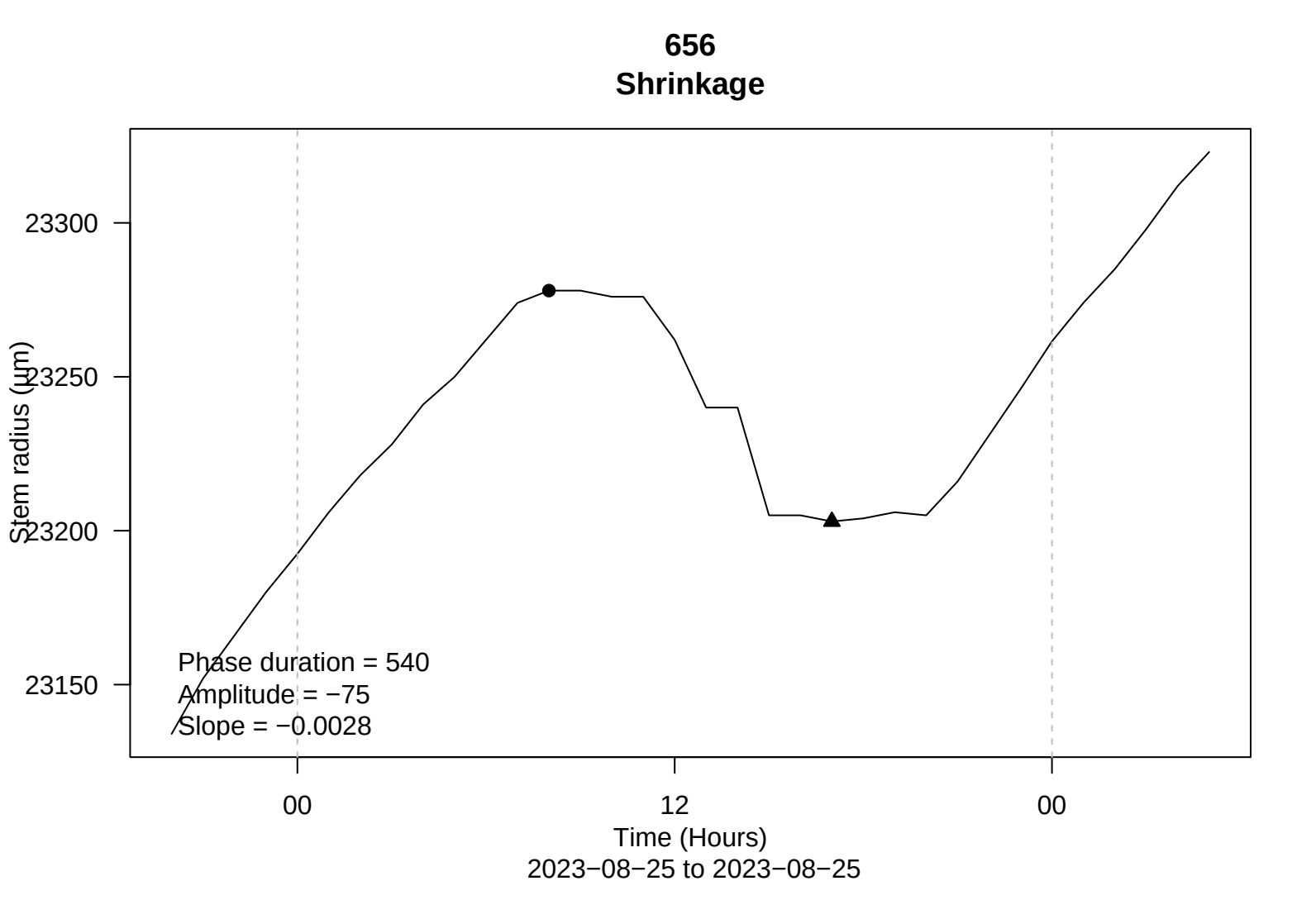

656
Expansion
23100
23050
23000
22950
22900
22850
22800
22750
Stem radius (µm)
Phase duration = 1320
Amplitude = 269
Slope = 0.0043
00
12
00
12
Time (Hours)
2023−08−22 to 2023−08−23

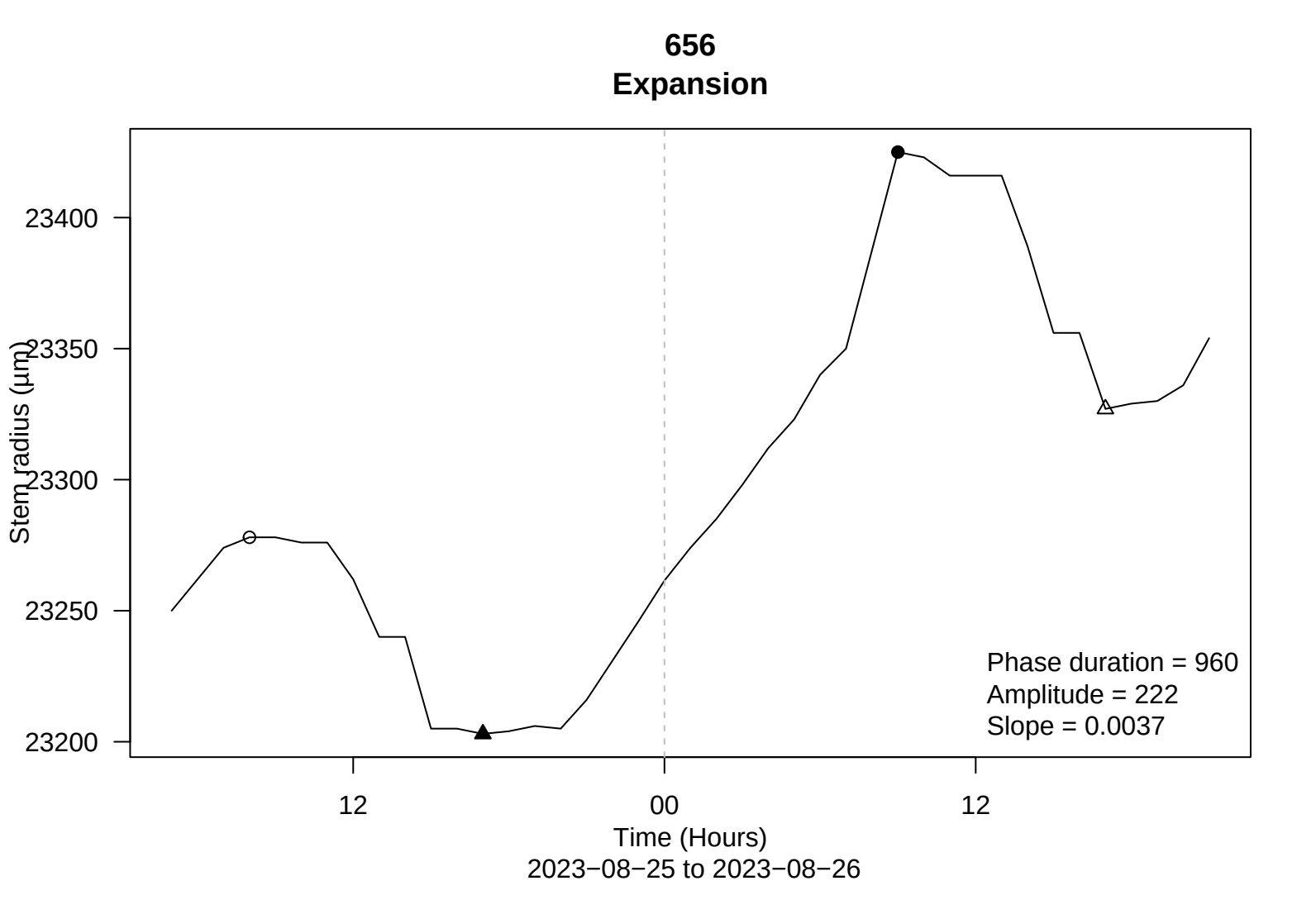

656
Shrinkage
23150
23100
23050
23000
22950
22900
Stem radius (µm)
Phase duration = 480
Amplitude = −82
Slope = −0.0028
00
12
00
Time (Hours)
2023−08−23 to 2023−08−23

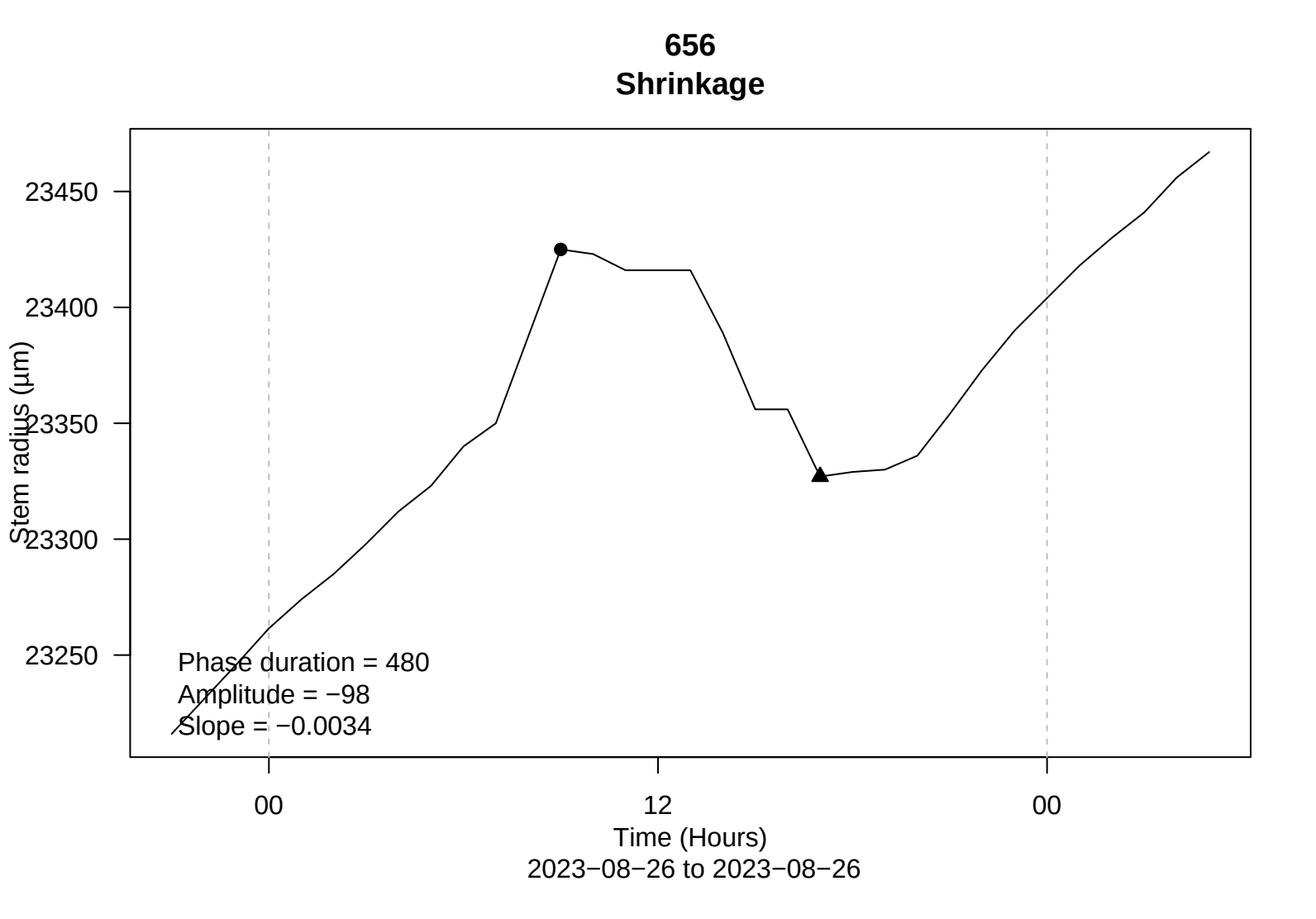

656
Expansion
23200
23150
23100
23050
Stem radius (µm)
Phase duration = 900
Amplitude = 204
Slope = 0.0044
12
00
12
Time (Hours)
2023−08−23 to 2023−08−24

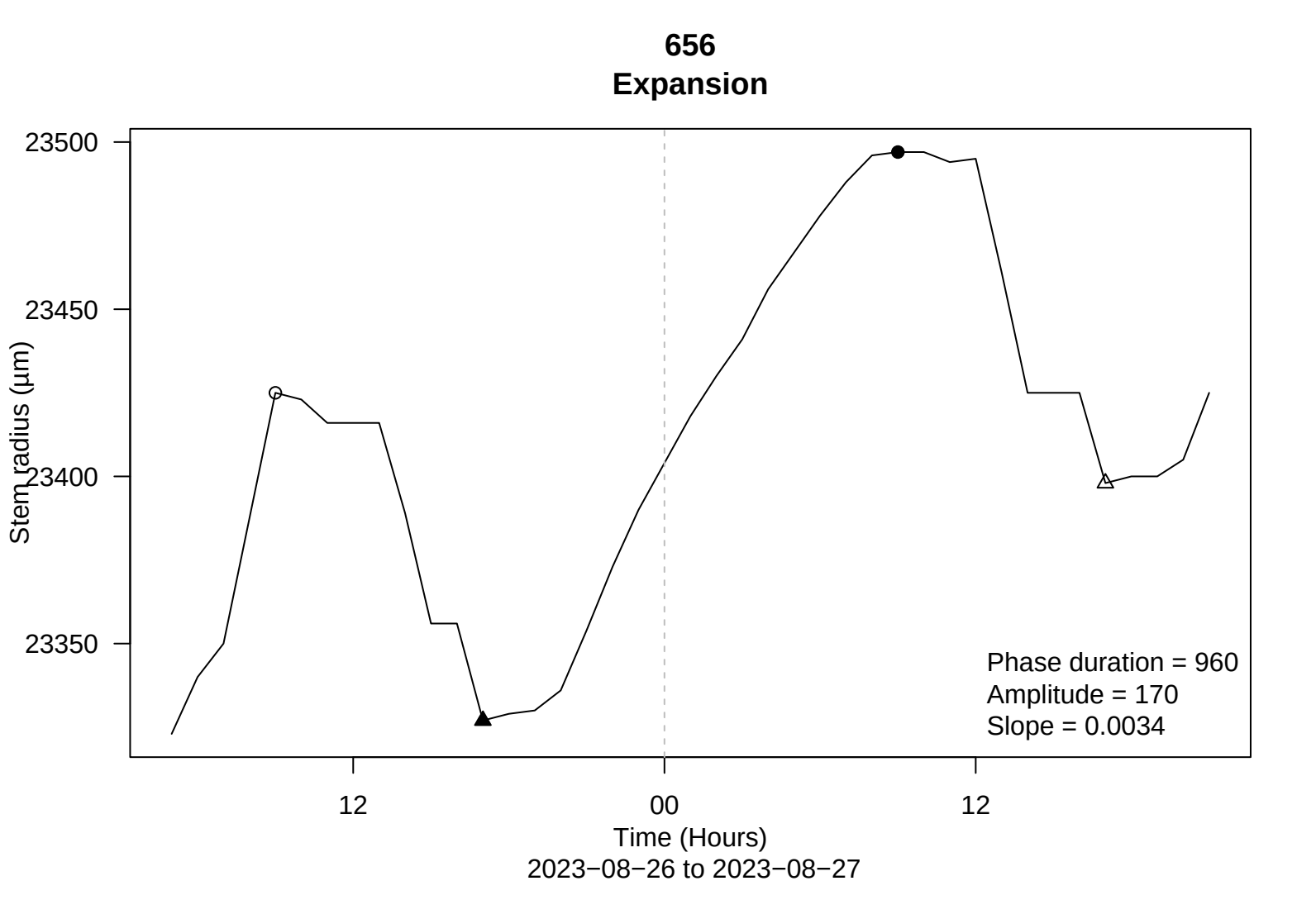

656
Shrinkage
23250
23200
23150
23100
23050
Stem radius (µm)
Phase duration = 540
Amplitude = −81
Slope = −0.0029
00
12
00
Time (Hours)
2023−08−24 to 2023−08−24

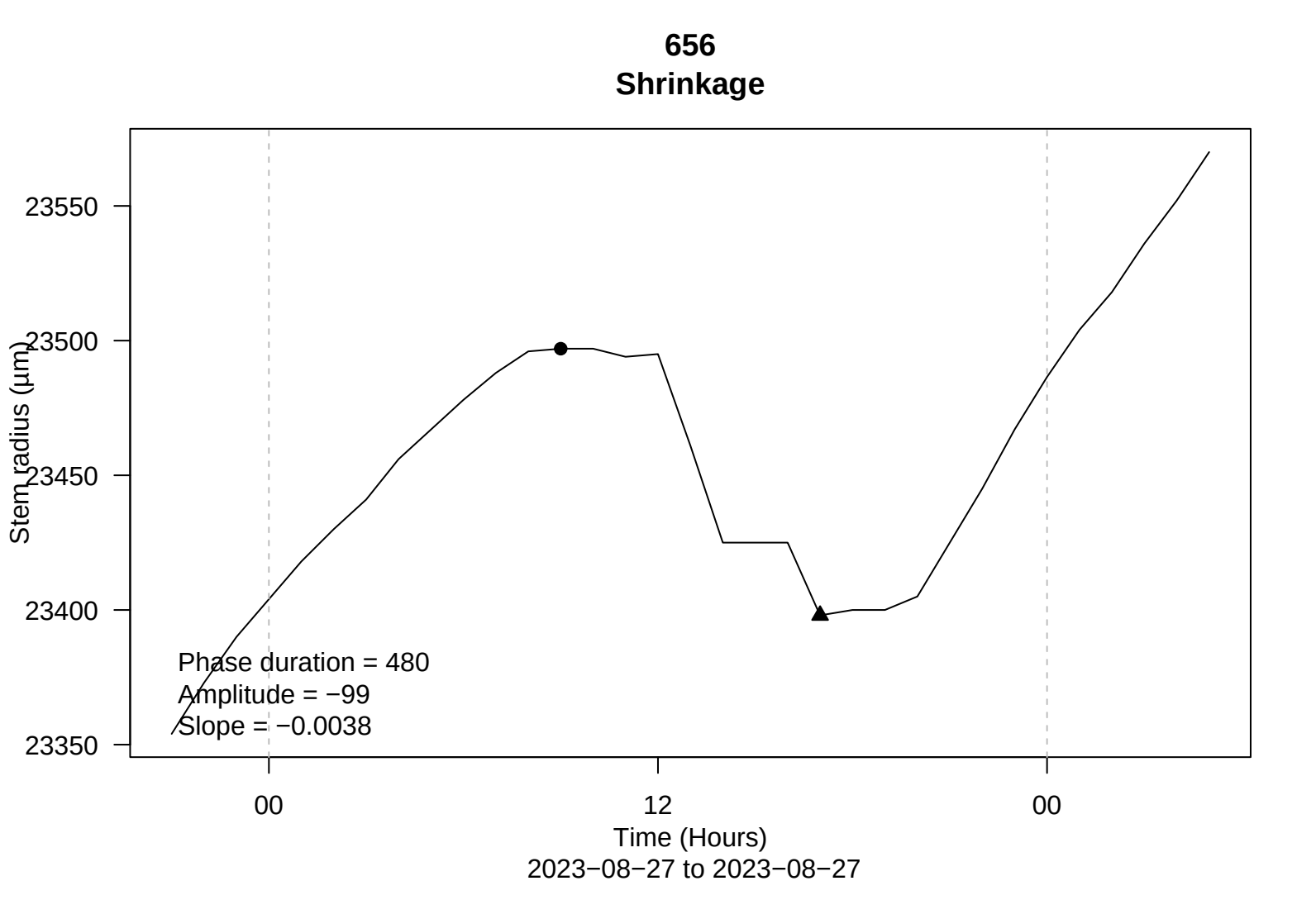

656
Expansion
23280
23260
23240
23220
23200
23180
23160
23140
Stem radius (µm)
Phase duration = 900
Amplitude = 144
Slope = 0.0031
12
00
12
Time (Hours)
2023−08−24 to 2023−08−25

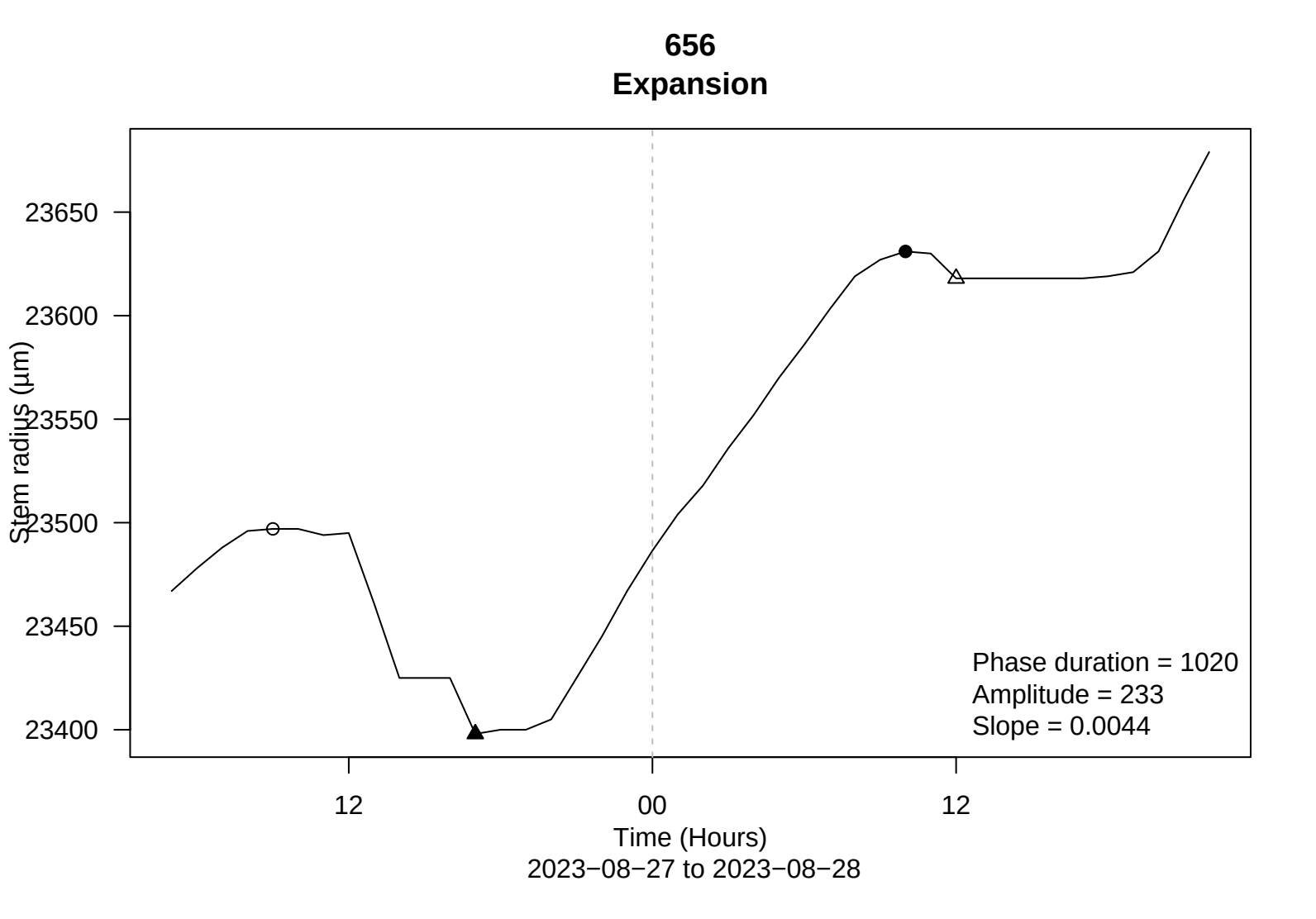

656
Shrinkage
23300
23250
23200
23150
Stem radius (µm)
Phase duration = 540
Amplitude = −75
Slope = −0.0028
00
12
00
Time (Hours)
2023−08−25 to 2023−08−25

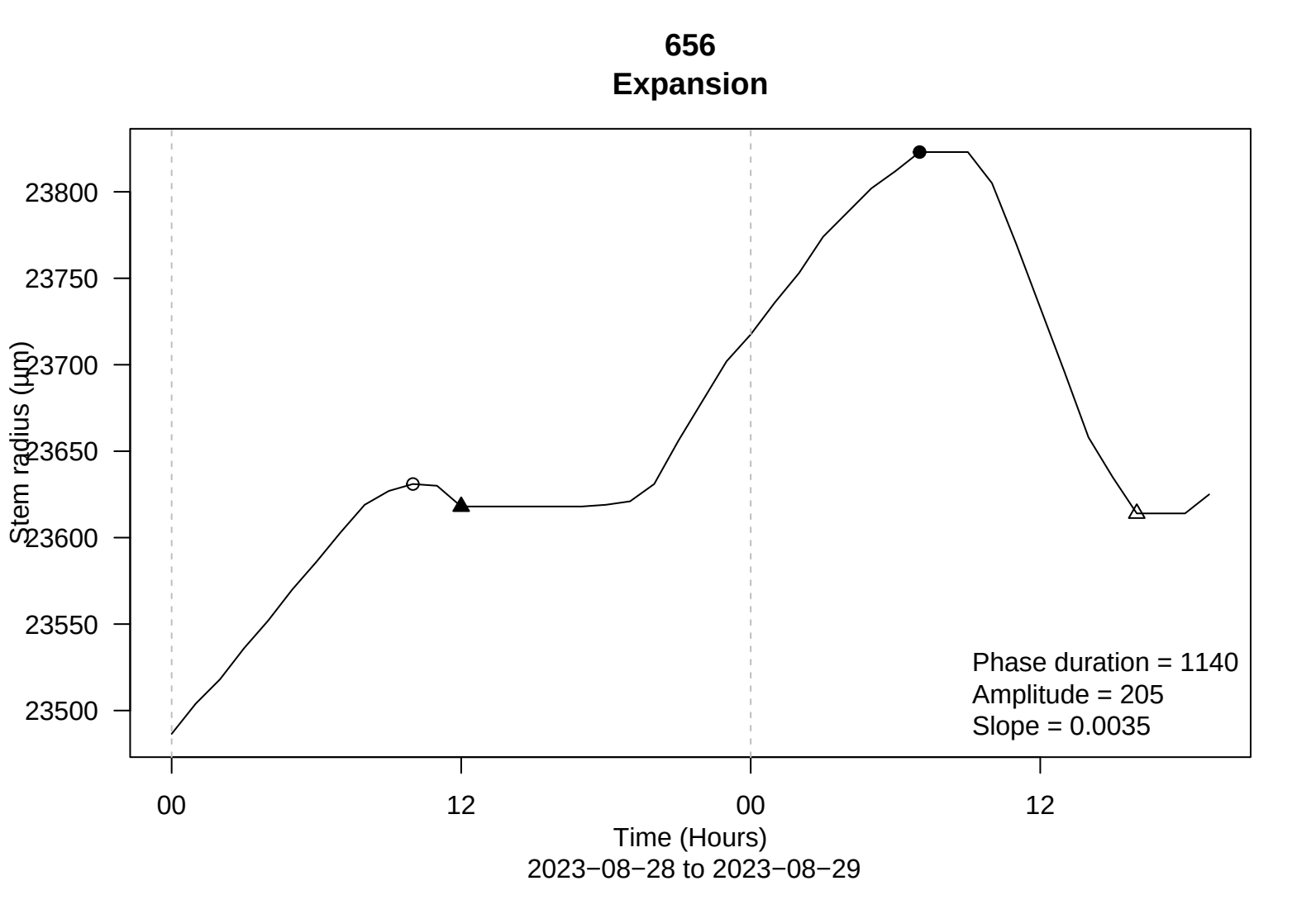

656
Expansion
23400
23350
23300
23250
23200
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−25 to 2023−08−26
Phase duration = 960
Amplitude = 222
Slope = 0.0037

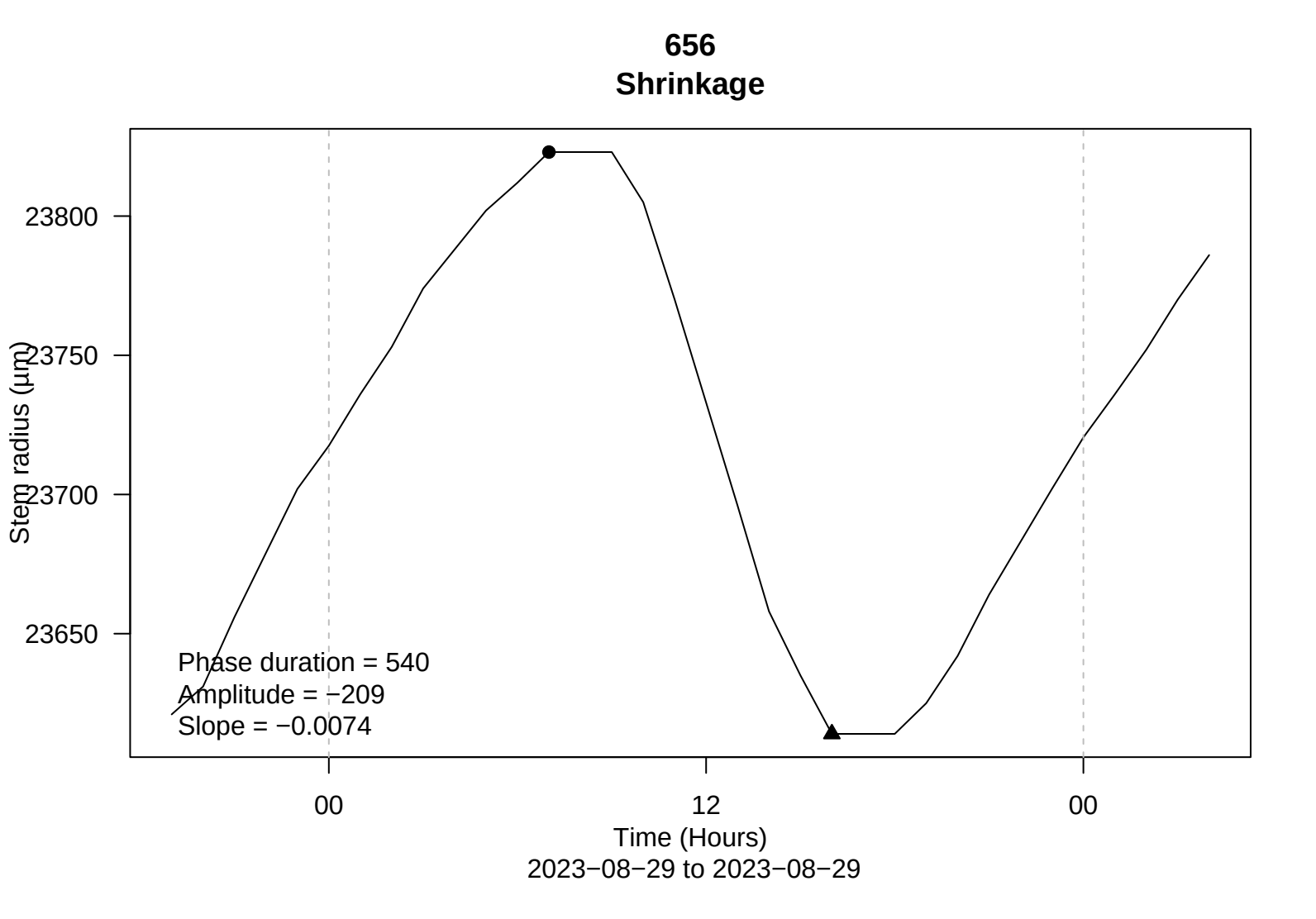

656
Shrinkage
23450
23400
23350
23300
23250
Stem radius (µm)
Phase duration = 480
Amplitude = −98
Slope = −0.0034
00
12
00
Time (Hours)
2023−08−26 to 2023−08−26

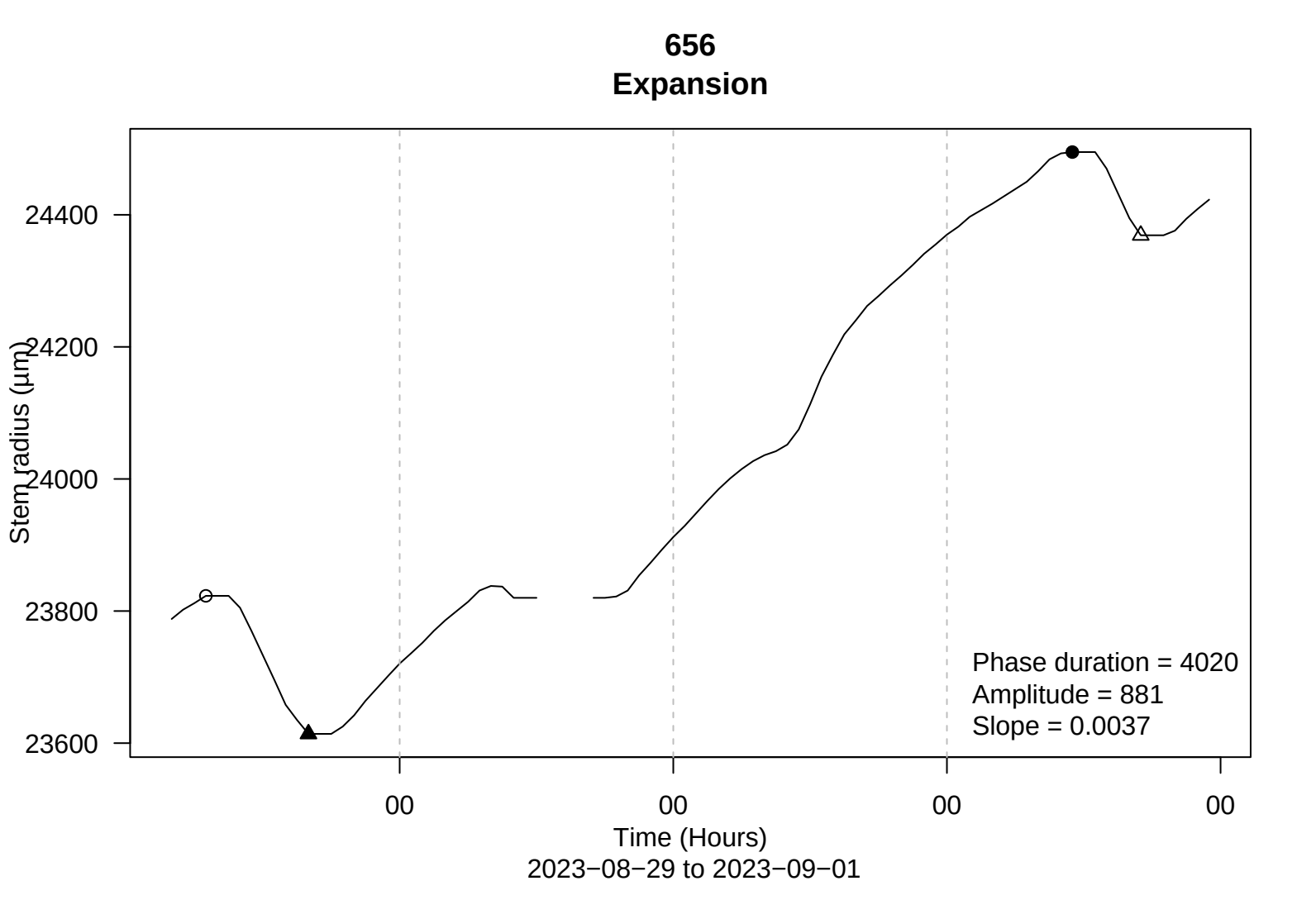

656
Expansion
23500
23450
23400
23350
Stem radius (µm)
Phase duration = 960
Amplitude = 170
Slope = 0.0034
12
00
12
Time (Hours)
2023−08−26 to 2023−08−27

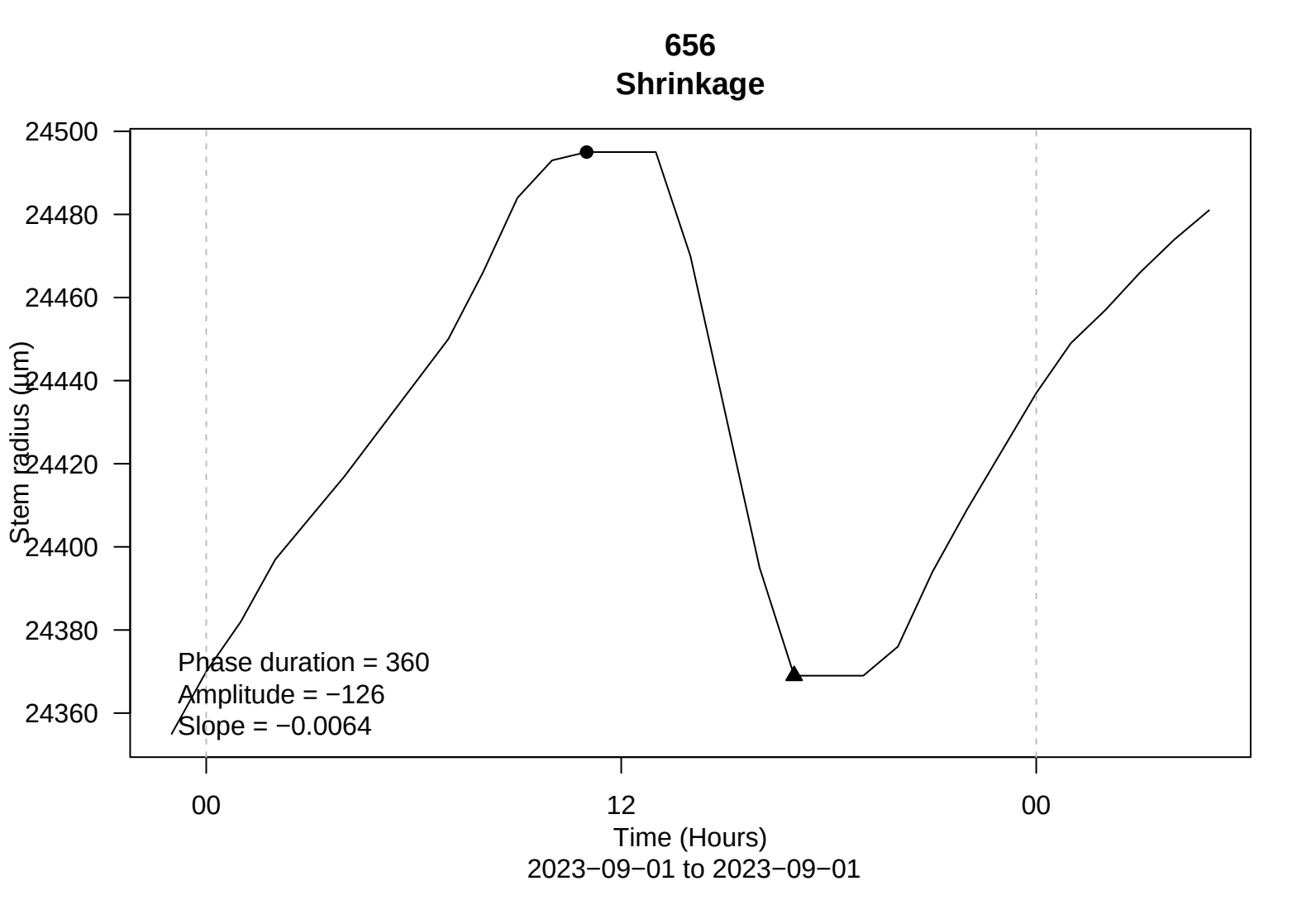

656
Shrinkage
23550
23500
23450
23400
23350
Stem radius (µm)
Phase duration = 480
Amplitude = −99
Slope = −0.0038
00
12
00
Time (Hours)
2023−08−27 to 2023−08−27

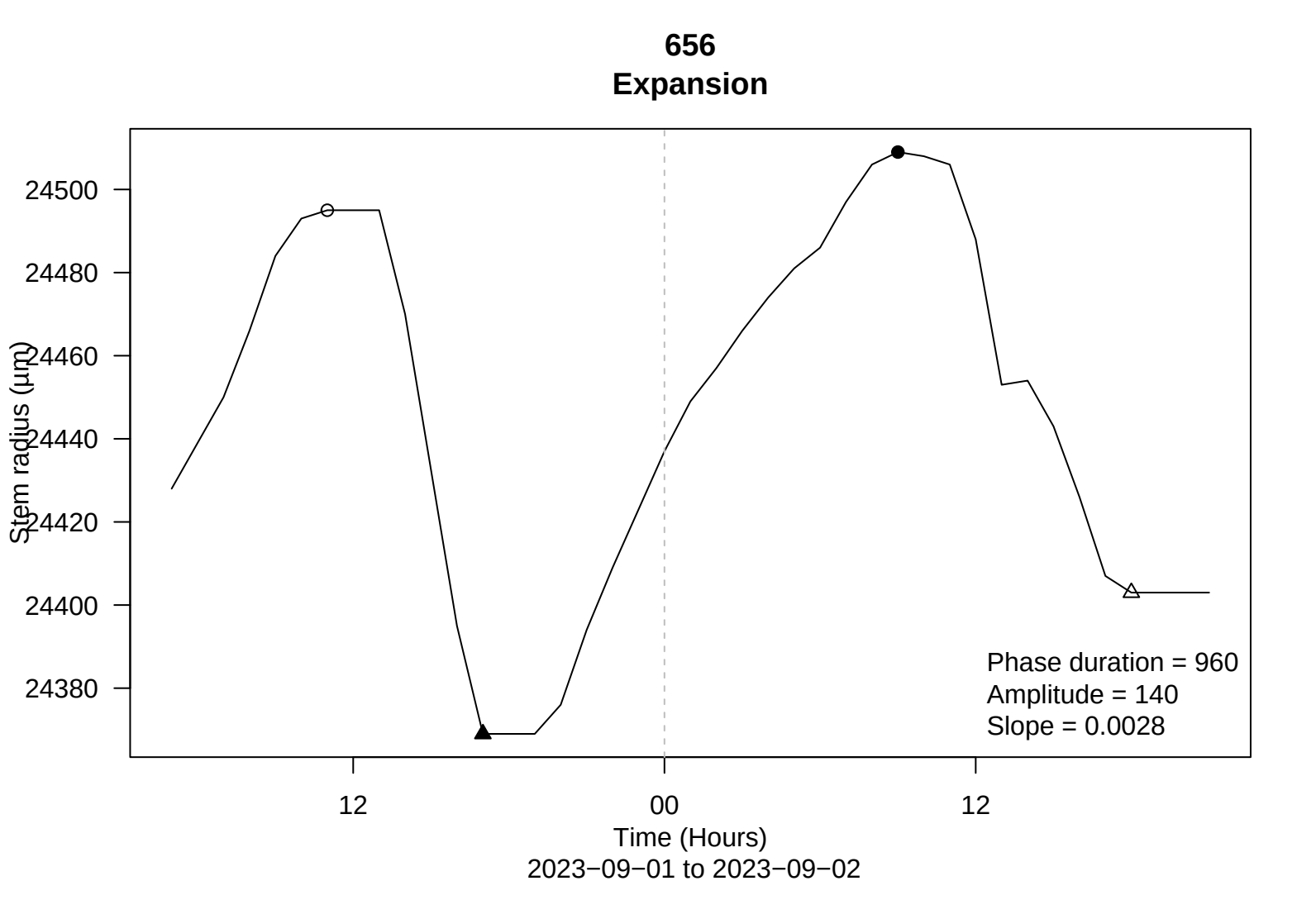

656
Expansion
23650
23600
23550
23500
23450
23400
Stem radius (µm)
Phase duration = 1020
Amplitude = 233
Slope = 0.0044
12
00
12
Time (Hours)
2023−08−27 to 2023−08−28

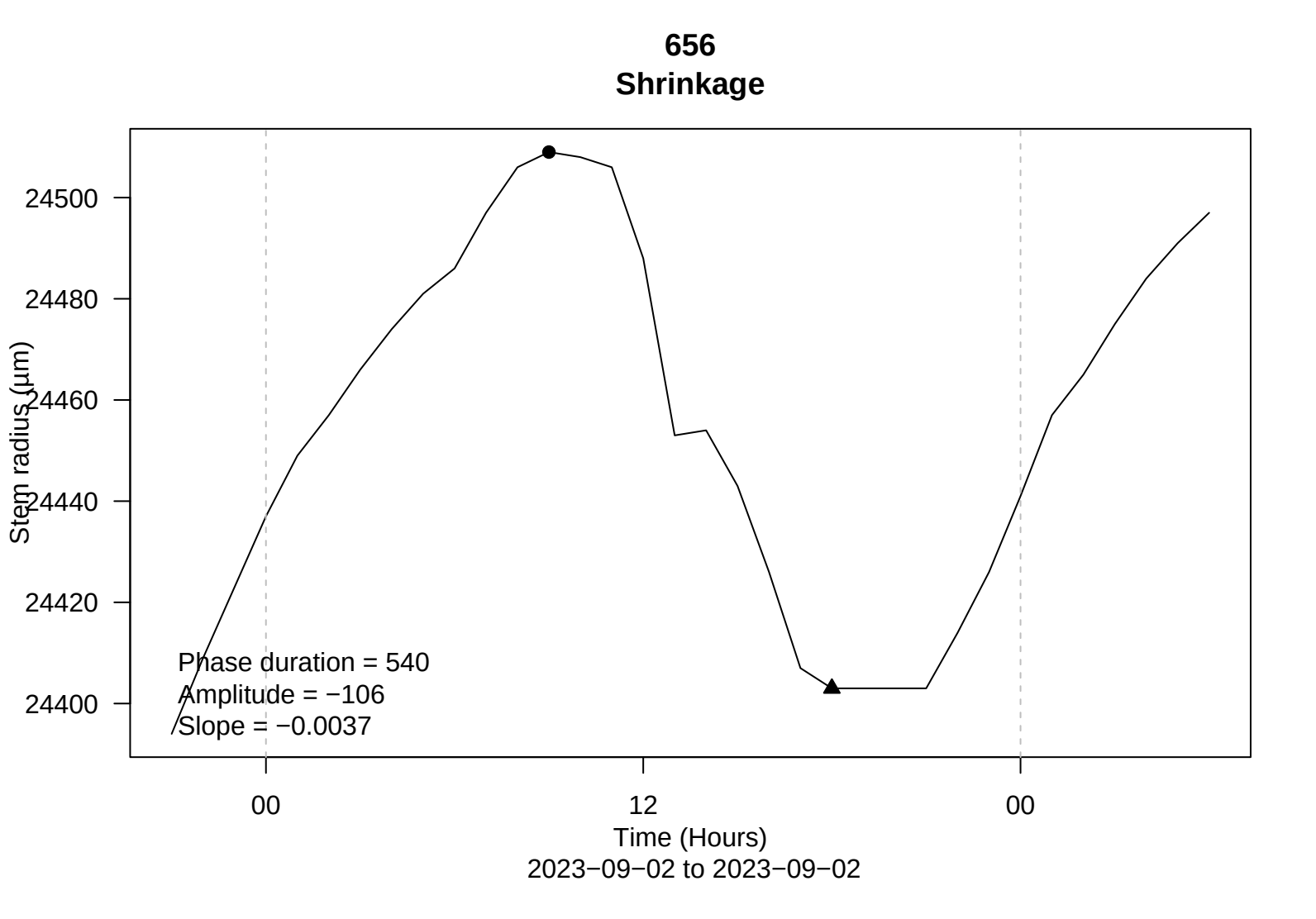

656
Expansion
23800
23750
23700
23650
23600
23550
23500
Stem radius (µm)
Phase duration = 1140
Amplitude = 205
Slope = 0.0035
00
12
00
12
Time (Hours)
2023−08−28 to 2023−08−29

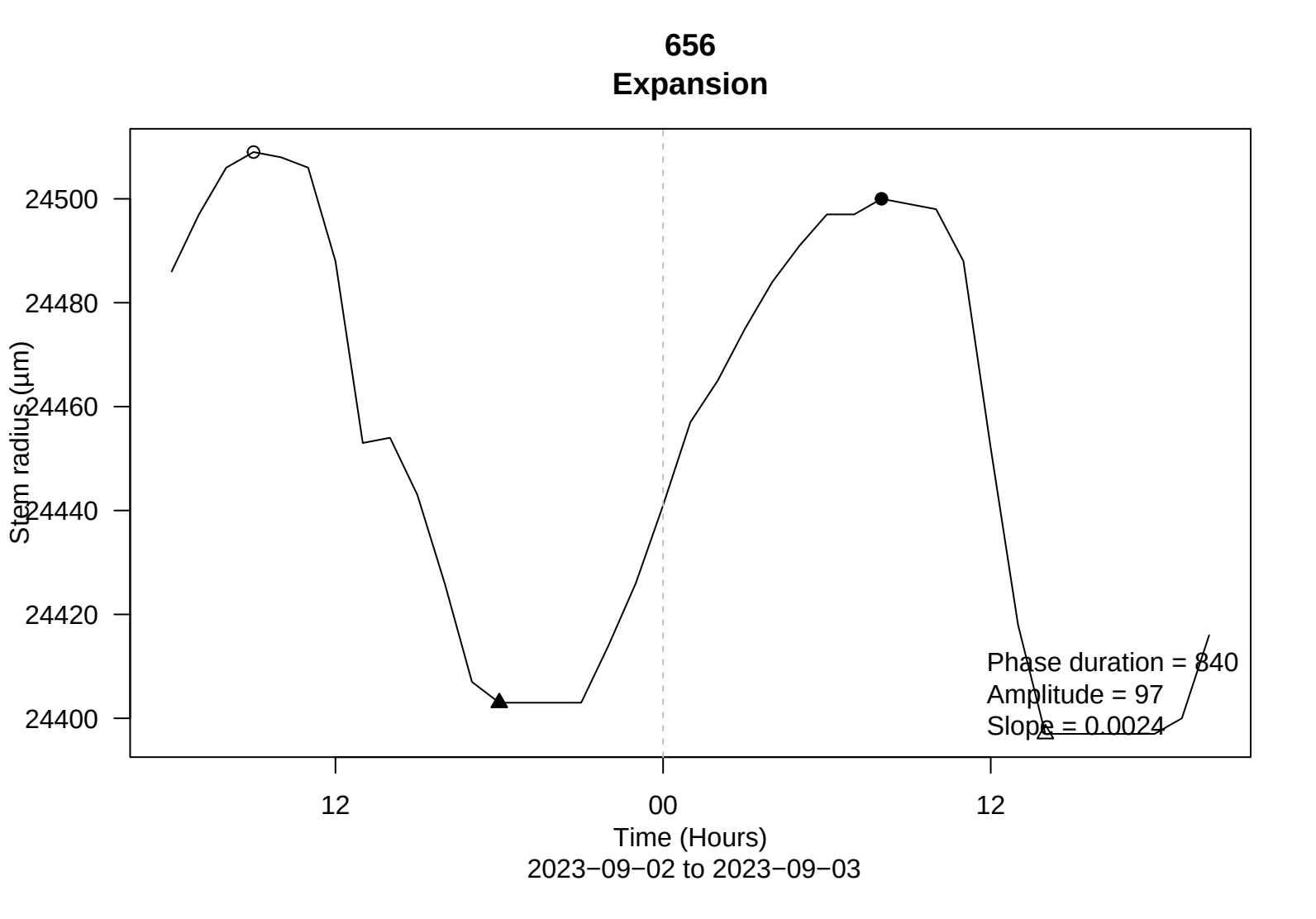

656
Shrinkage
23800
23750
23700
23650
Stem radius (µm)
Phase duration = 540
Amplitude = −209
Slope = −0.0074
00
12
00
Time (Hours)
2023−08−29 to 2023−08−29

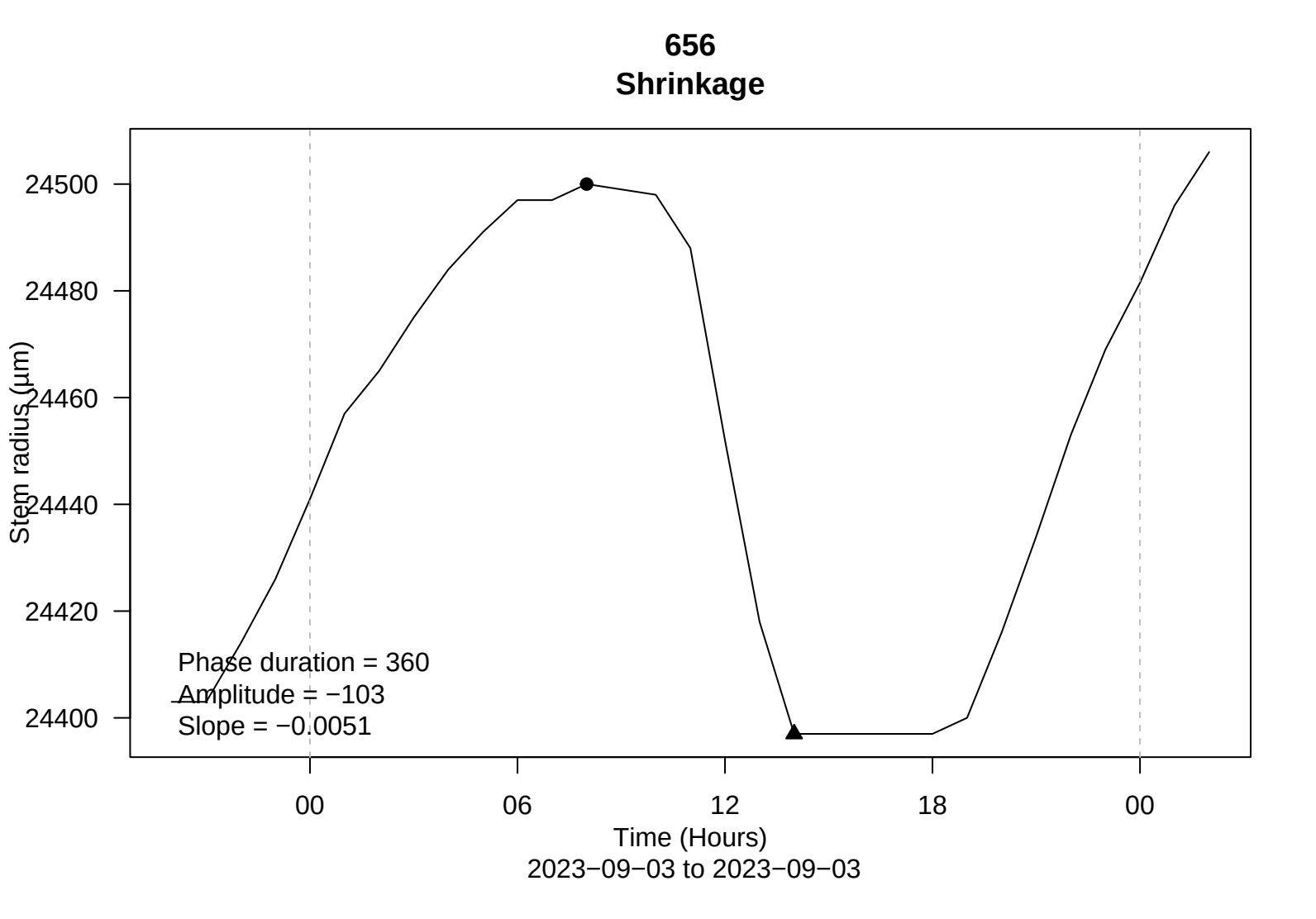

656
Expansion
24400
24200
24000
23800
23600
Stem radius (µm)
00
00
00
00
Time (Hours)
2023−08−29 to 2023−09−01
Phase duration = 4020
Amplitude = 881
Slope = 0.0037

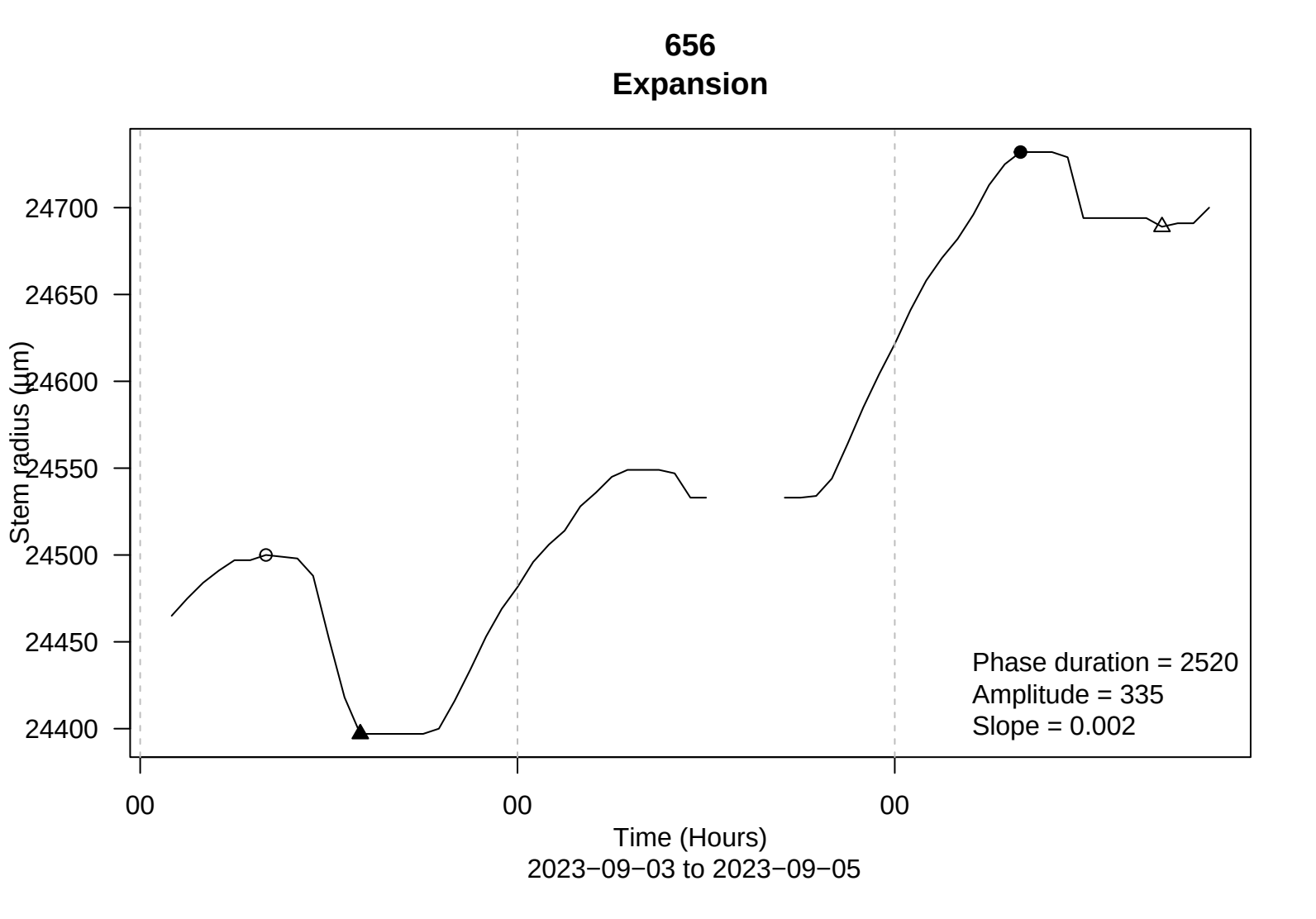

656
Shrinkage
24500
24480
24460
24440
24420
24400
24380
24360
Stem radius (µm)
Phase duration = 360
Amplitude = −126
Slope = −0.0064
00
12
00
Time (Hours)
2023−09−01 to 2023−09−01

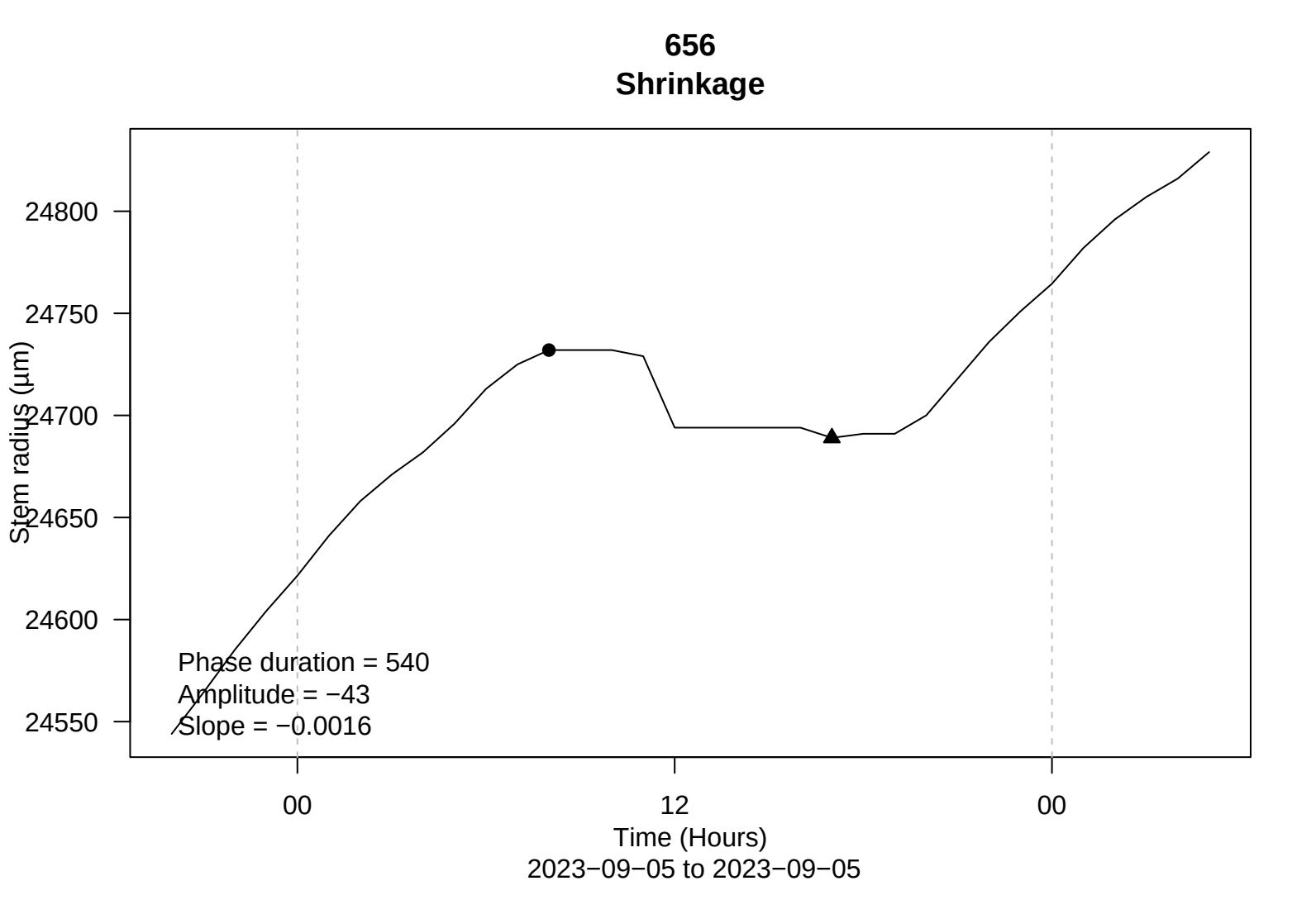

656
Expansion
24500
24480
24460
24440
24420
24400
24380
Stem radius (µm)
Phase duration = 960
Amplitude = 140
Slope = 0.0028
12
00
12
Time (Hours)
2023−09−01 to 2023−09−02

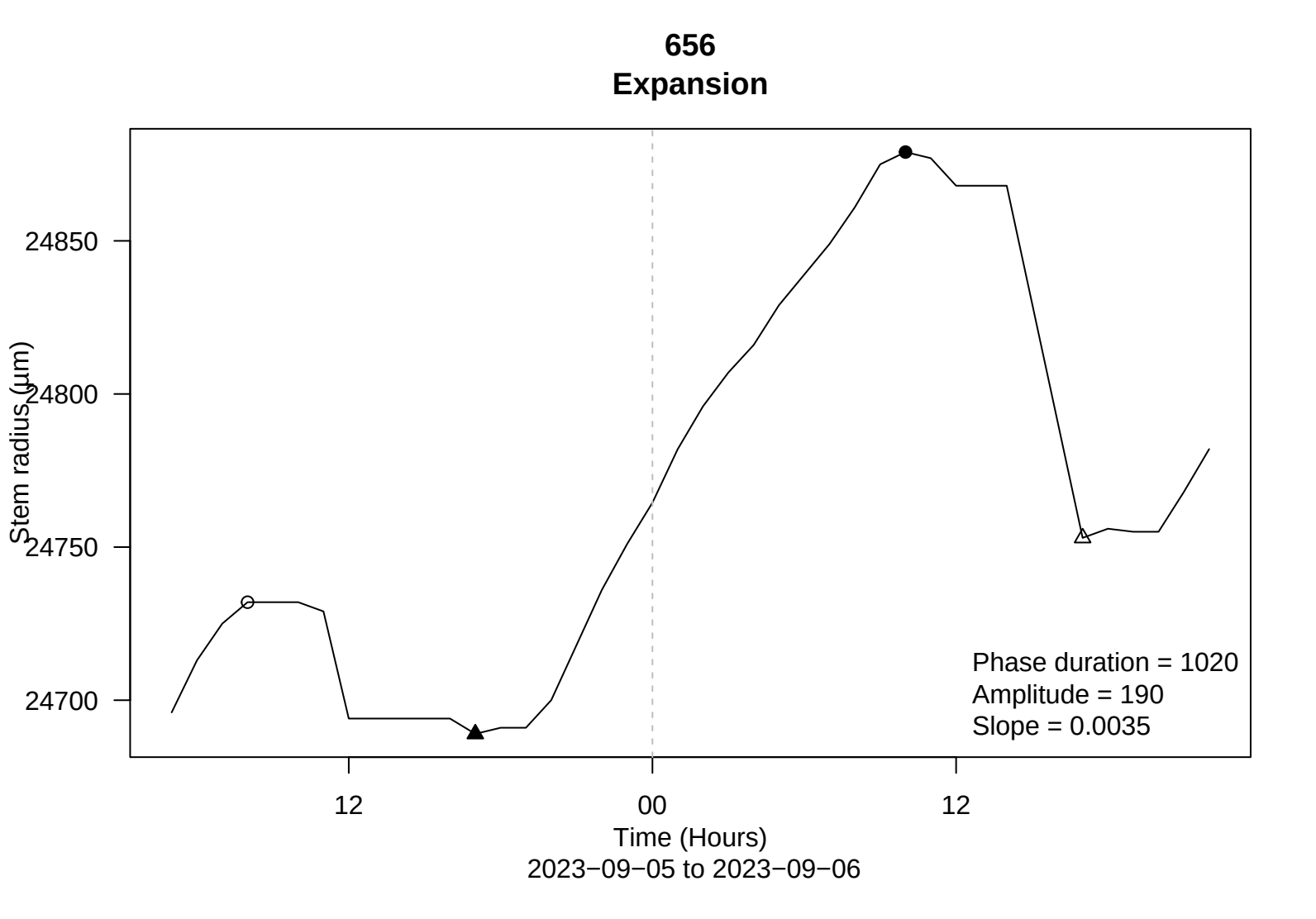

656
Shrinkage
24500
24480
24460
24440
24420
24400
Stem radius (µm)
Phase duration = 540
Amplitude = −106
Slope = −0.0037
00
12
00
Time (Hours)
2023−09−02 to 2023−09−02

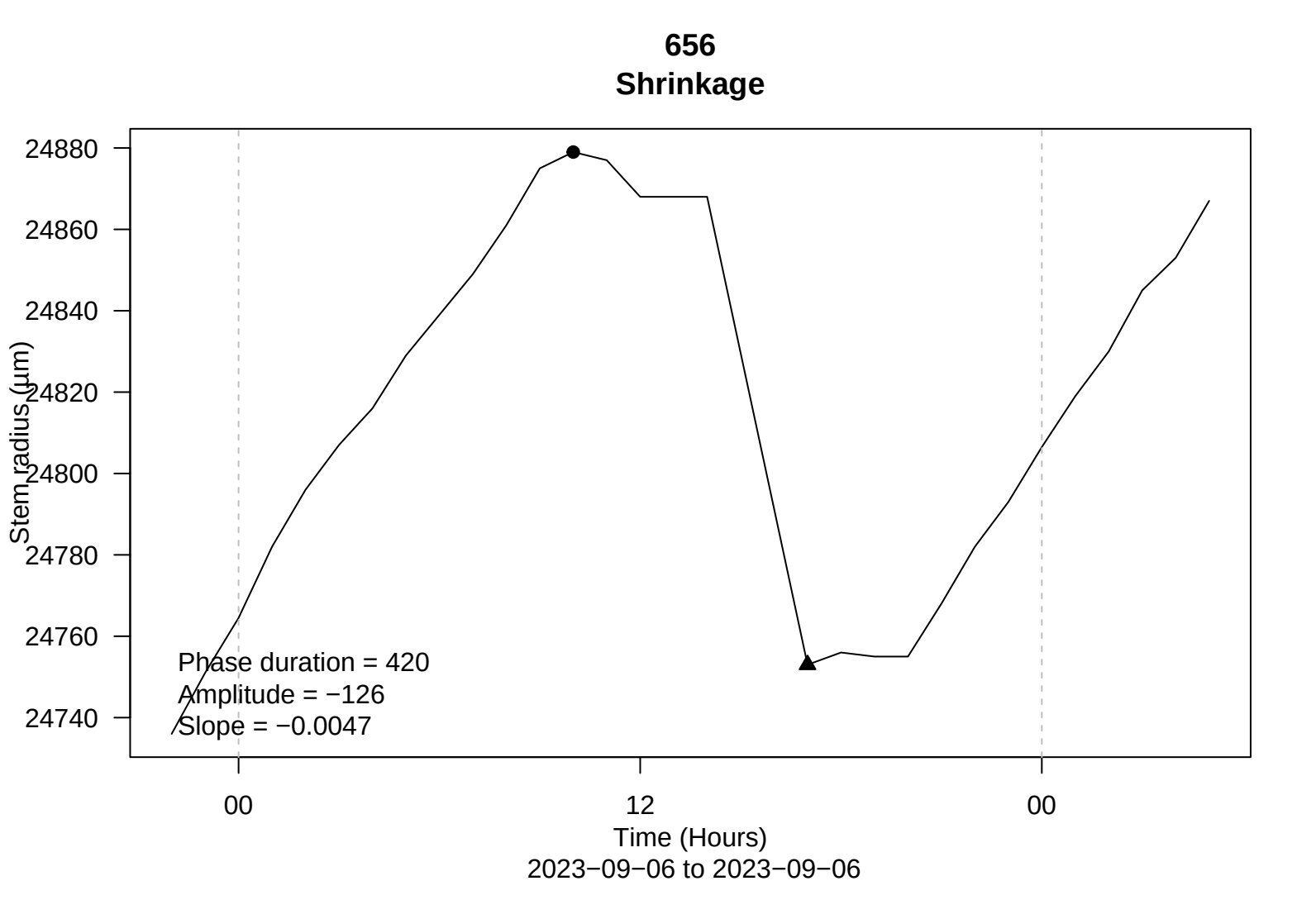

656
Expansion
24500
24480
24460
24440
24420
24400
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−02 to 2023−09−03
Phase duration = 840
Amplitude = 97
Slope = 0.0024

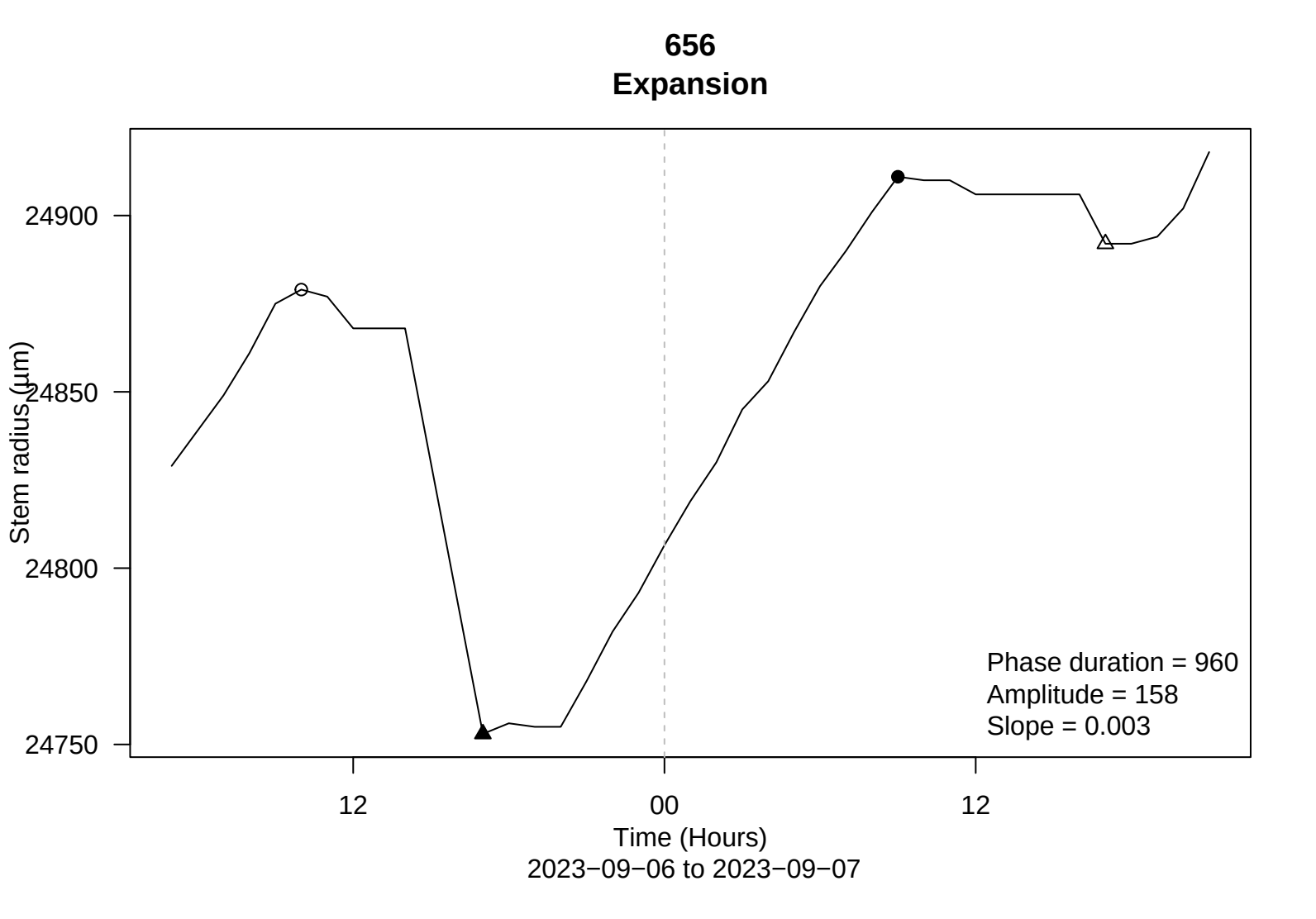

656
Shrinkage
24500
24480
24460
24440
24420
24400
Stem radius (µm)
Phase duration = 360
Amplitude = −103
Slope = −0.0051
00
06
12
18
00
Time (Hours)
2023−09−03 to 2023−09−03

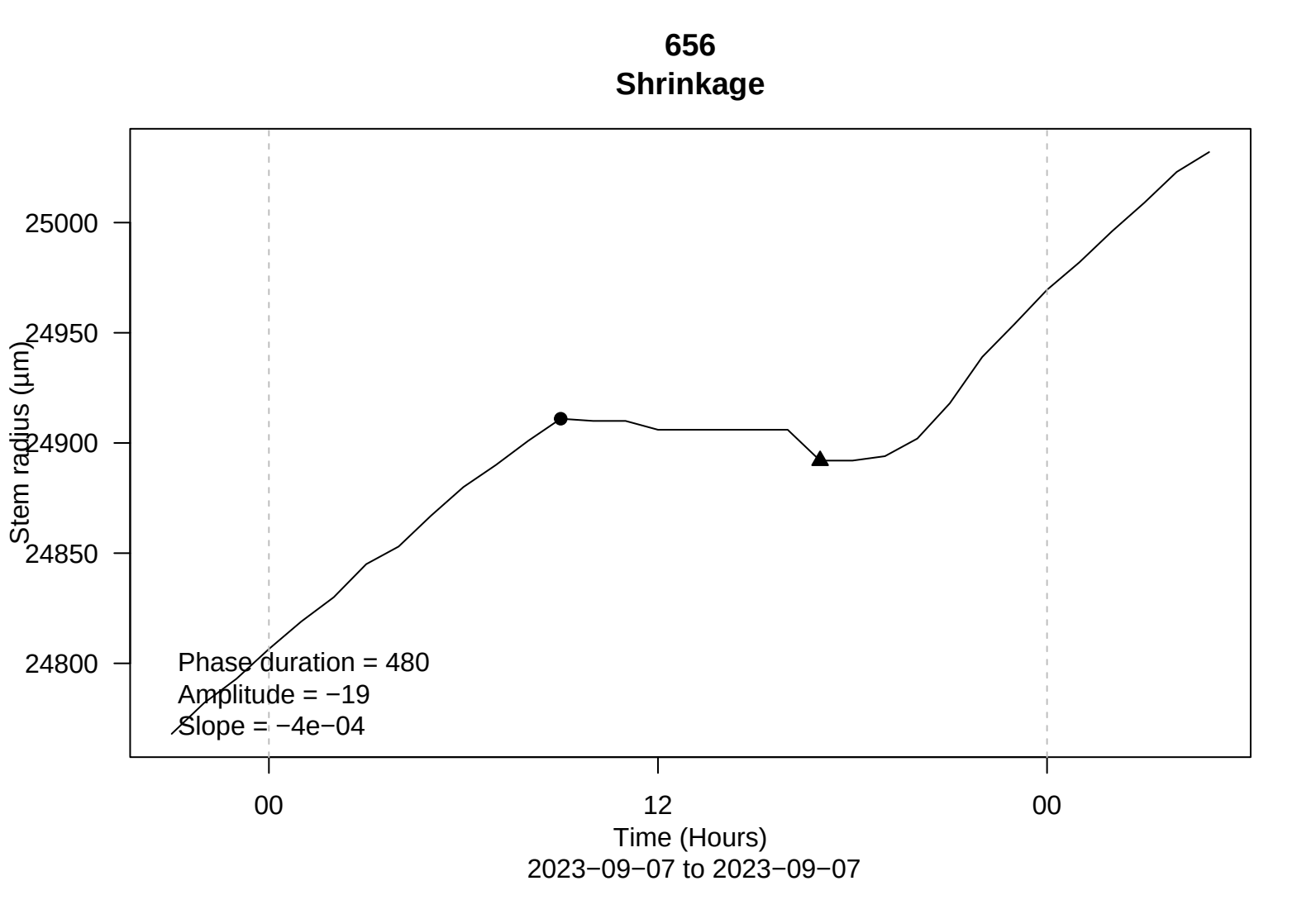

656
Expansion
24700
24650
24600
24550
24500
24450
24400
Stem radius (µm)
00
00
00
Time (Hours)
2023−09−03 to 2023−09−05
Phase duration = 2520
Amplitude = 335
Slope = 0.002

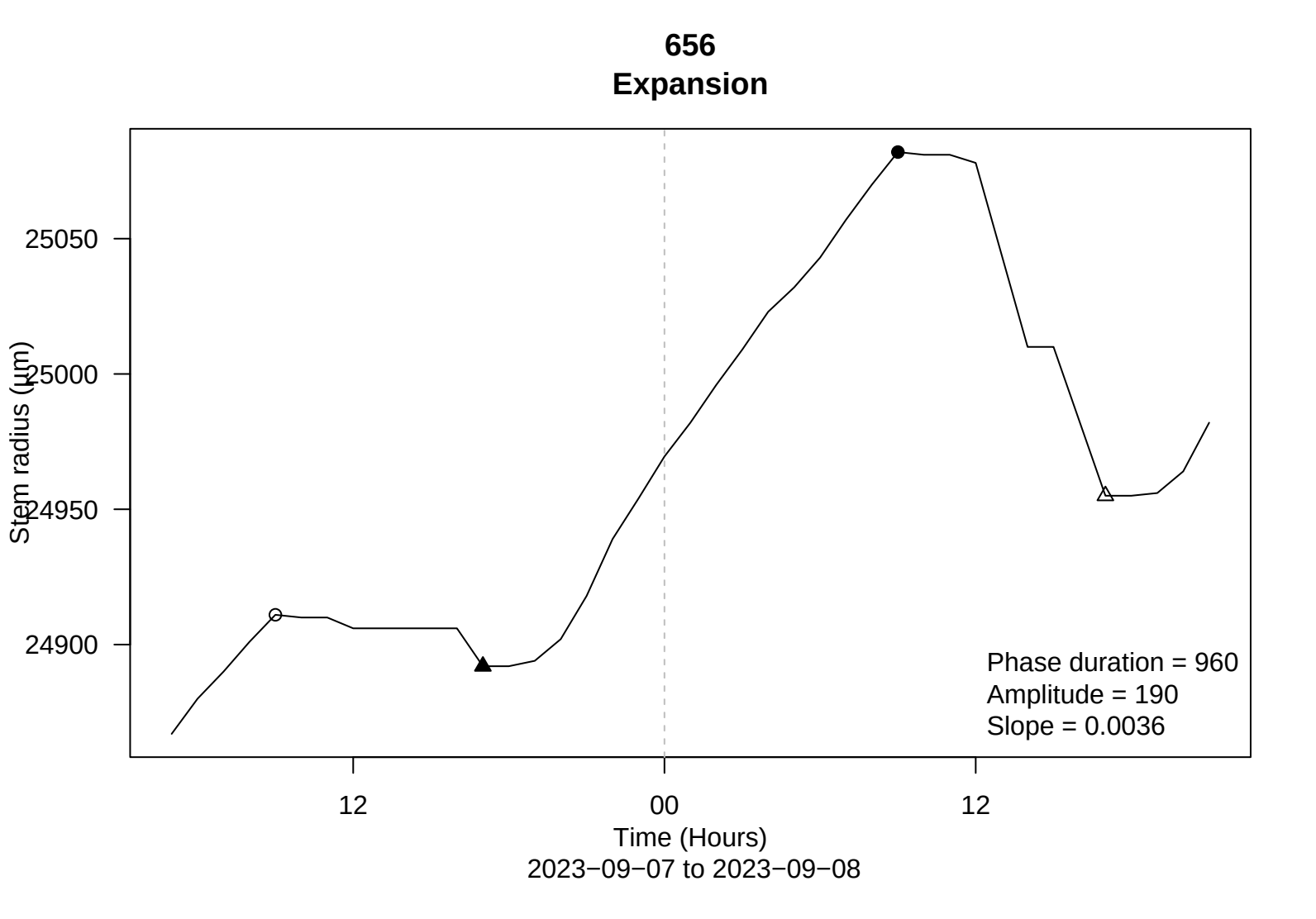

656
Shrinkage
24800
24750
24700
24650
24600
24550
Stem radius (µm)
Phase duration = 540
Amplitude = −43
Slope = −0.0016
00
12
00
Time (Hours)
2023−09−05 to 2023−09−05

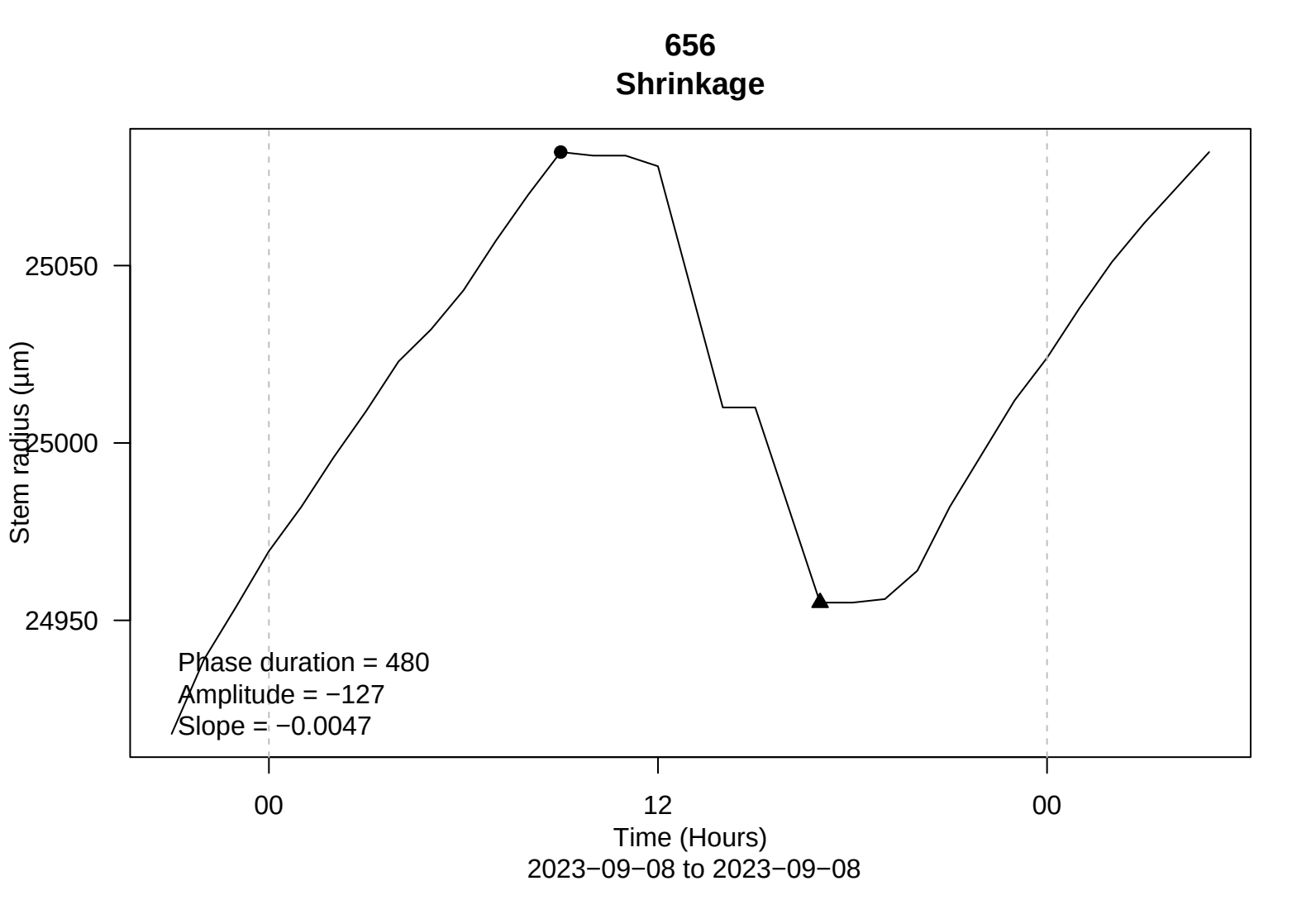

656
Expansion
24850
24800
24750
24700
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−05 to 2023−09−06
Phase duration = 1020
Amplitude = 190
Slope = 0.0035

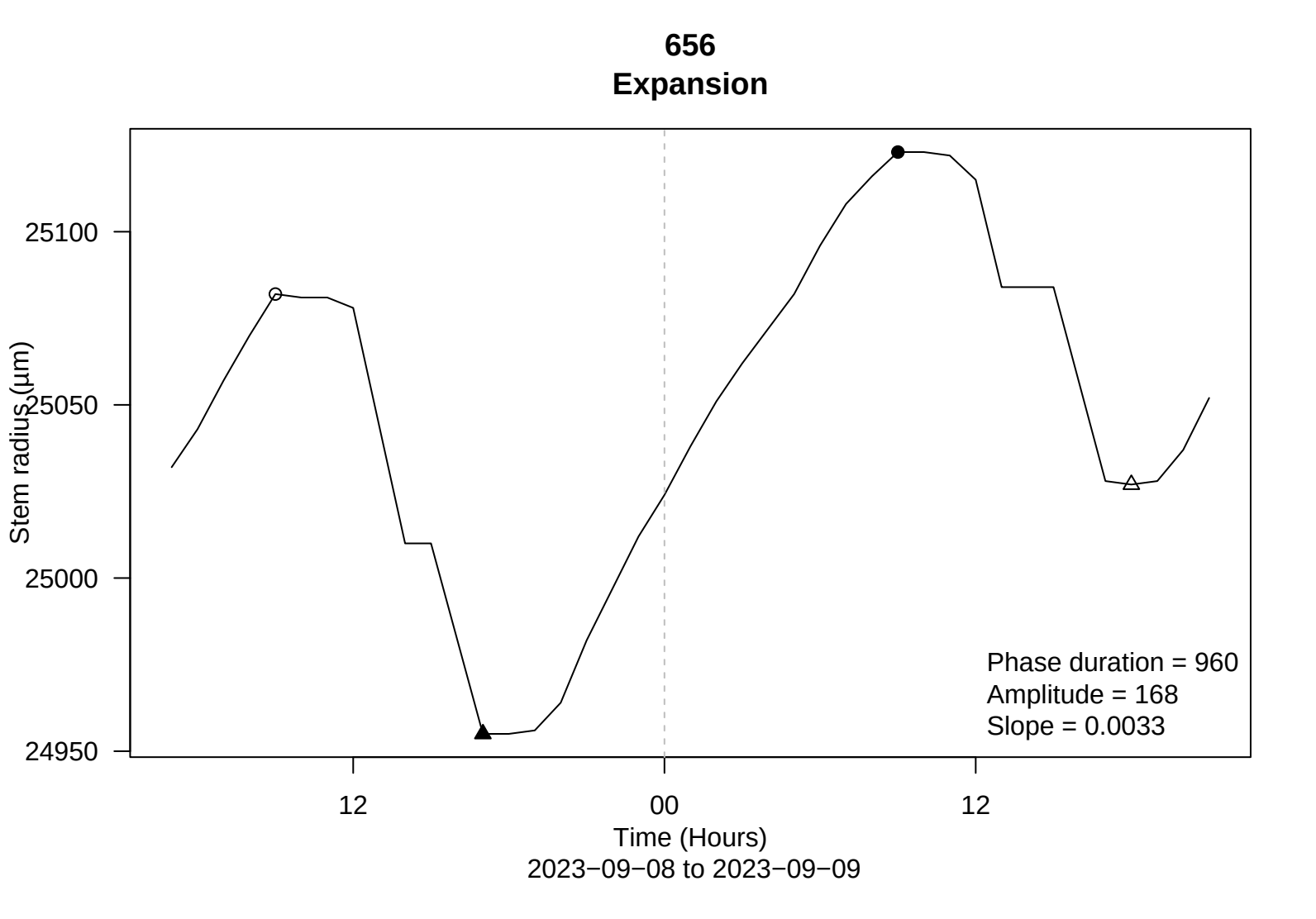

656
Shrinkage
24880
24860
24840
24820
24800
24780
24760
24740
Stem radius (µm)
Phase duration = 420
Amplitude = −126
Slope = −0.0047
00
12
00
Time (Hours)
2023−09−06 to 2023−09−06

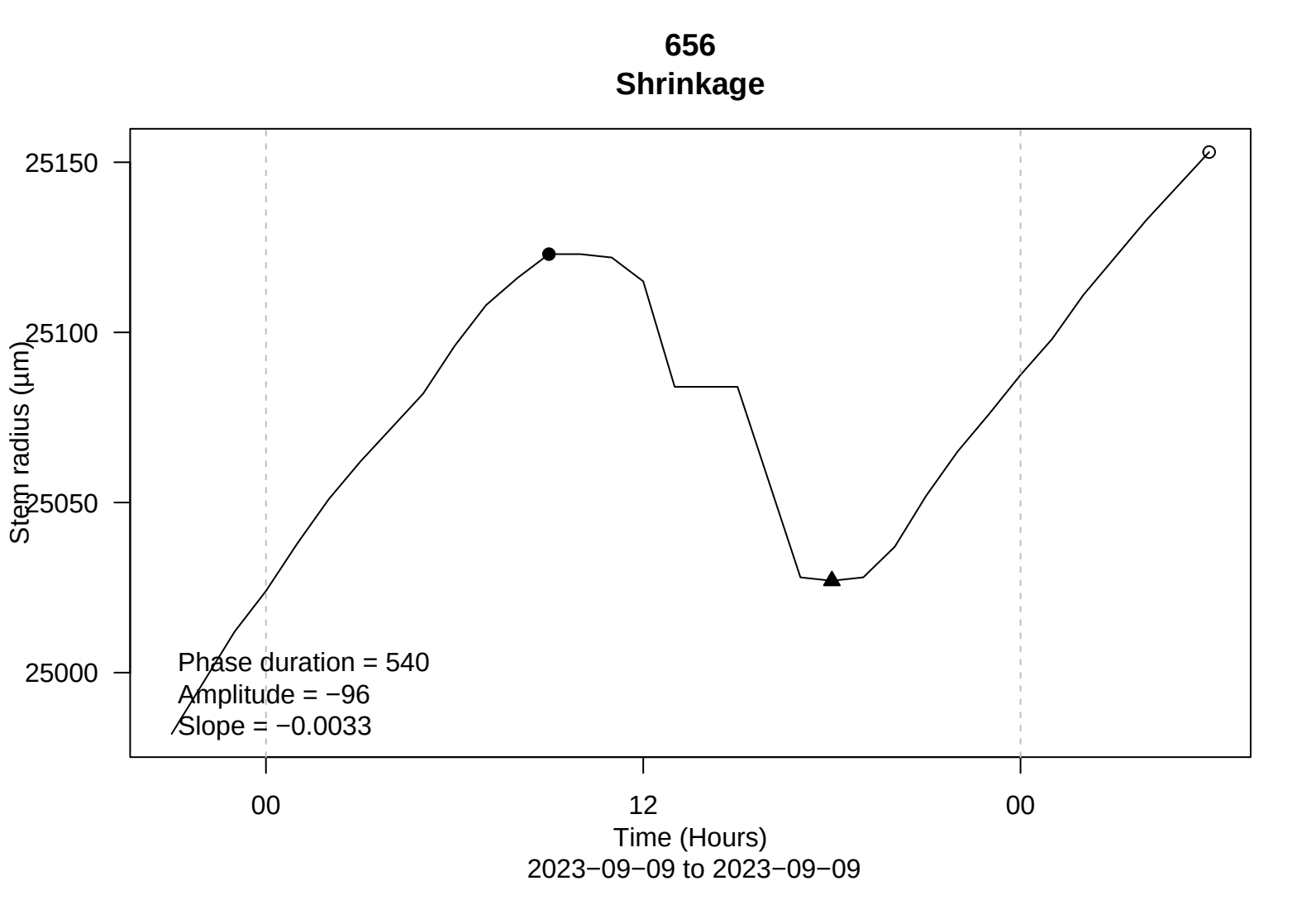

656
Expansion
24900
24850
24800
24750
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−06 to 2023−09−07
Phase duration = 960
Amplitude = 158
Slope = 0.003

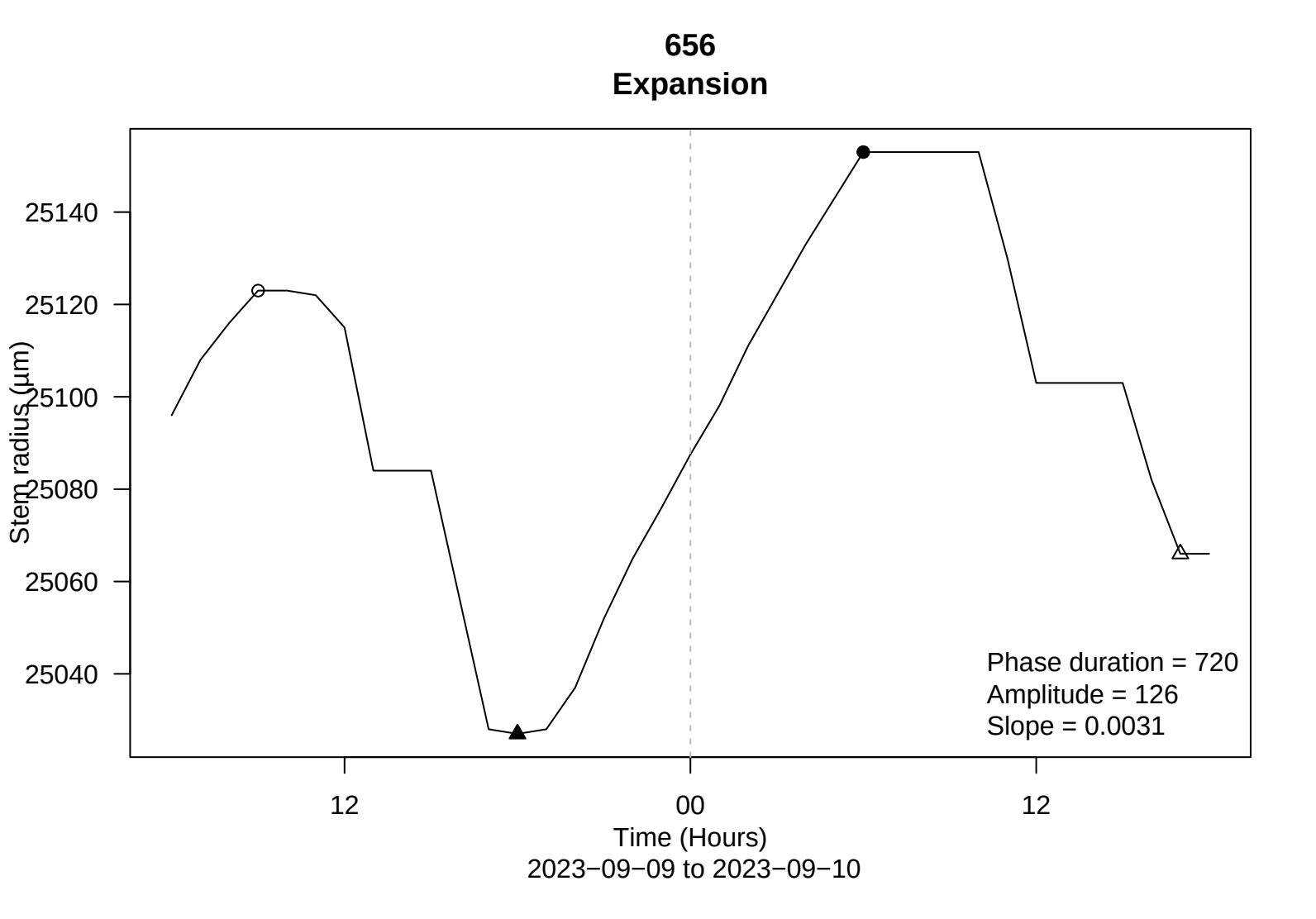

656
Shrinkage
25000
24950
24900
24850
24800
Stem radius (µm)
Phase duration = 480
Amplitude = −19
Slope = −4e−04
00
12
00
Time (Hours)
2023−09−07 to 2023−09−07

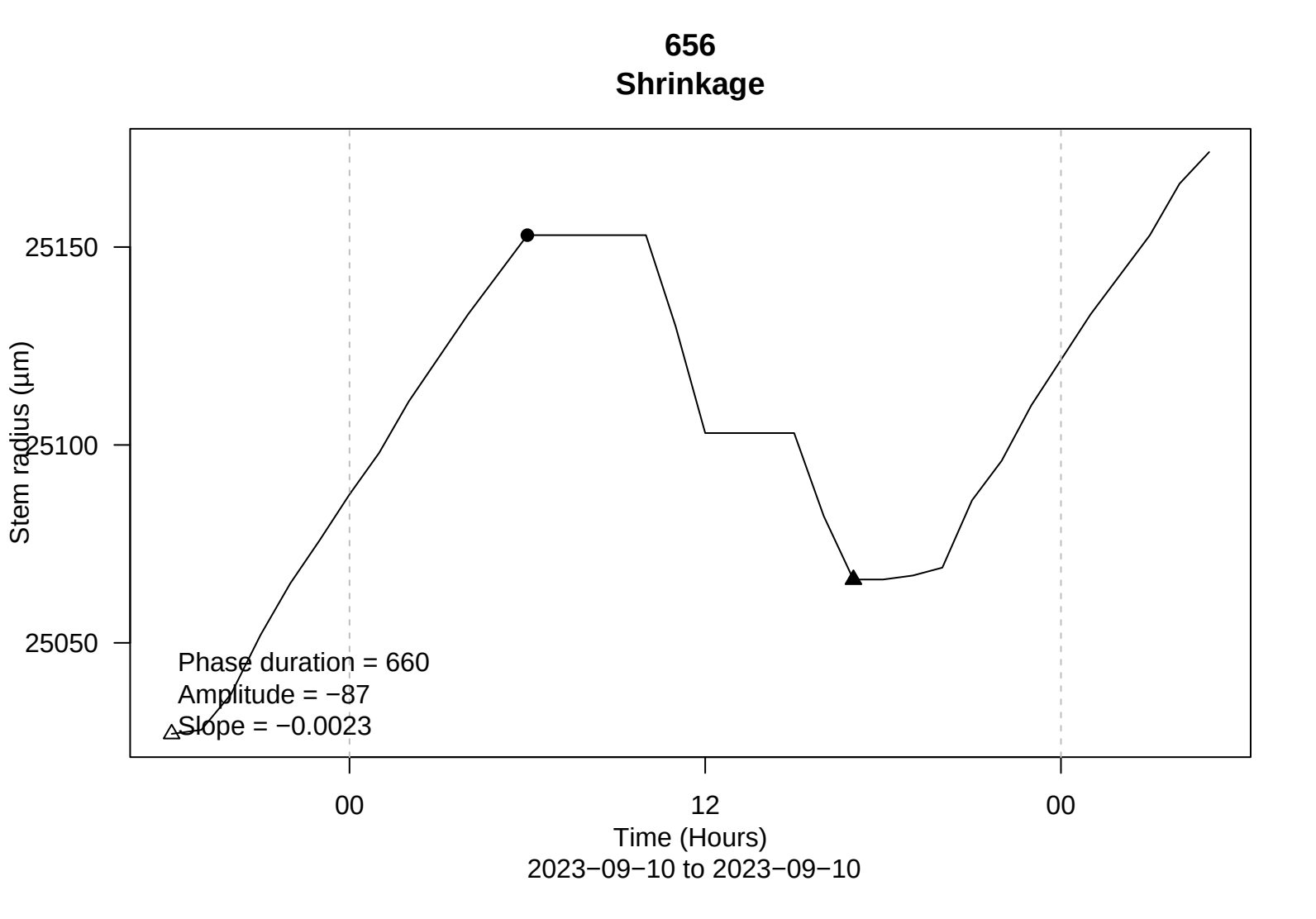

656
Expansion
25050
25000
24950
24900
Stem radius (µm)
Phase duration = 960
Amplitude = 190
Slope = 0.0036
12
00
12
Time (Hours)
2023−09−07 to 2023−09−08

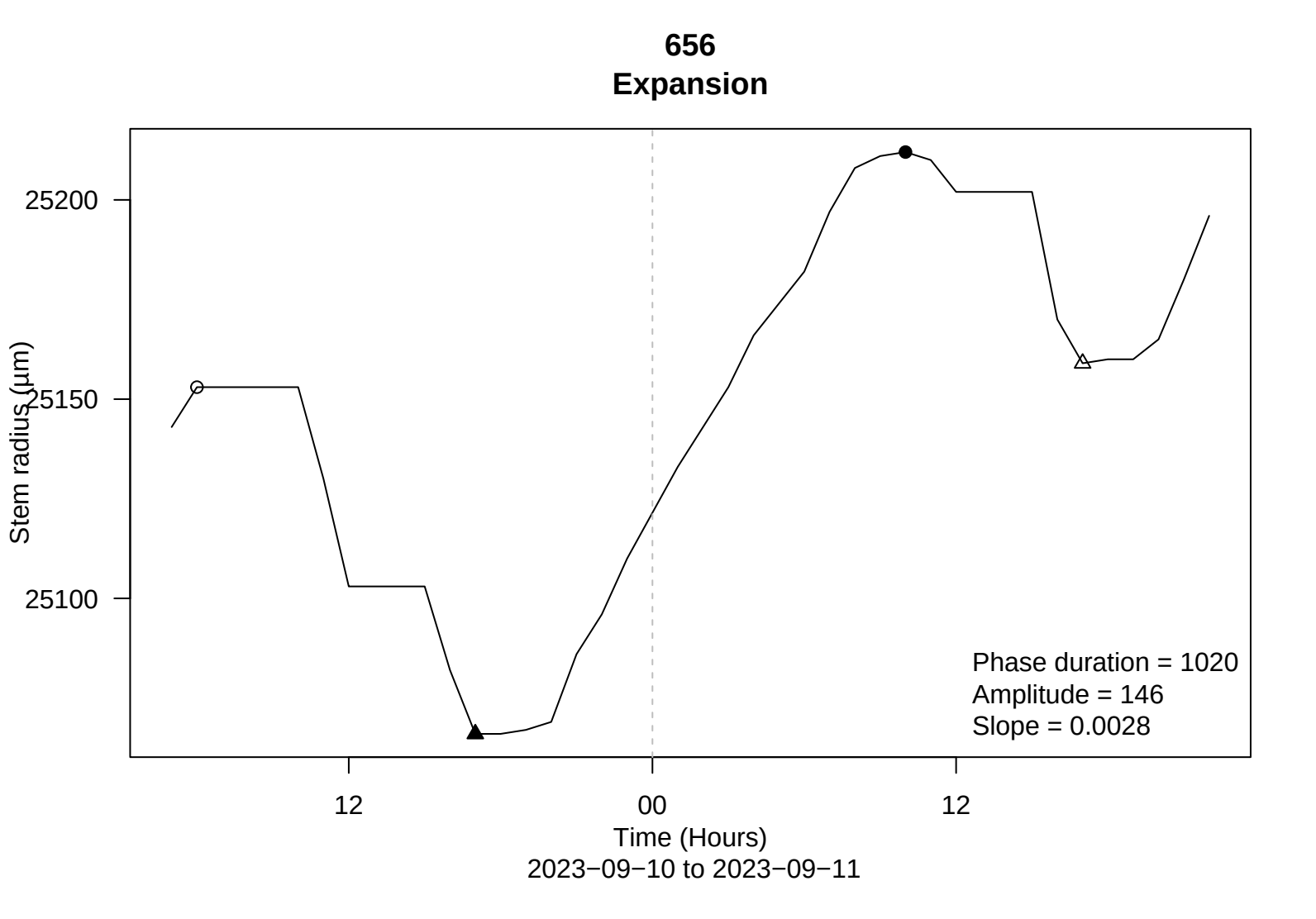

656
Shrinkage
25050
25000
24950
Stem radius (µm)
Phase duration = 480
Amplitude = −127
Slope = −0.0047
00
12
00
Time (Hours)
2023−09−08 to 2023−09−08

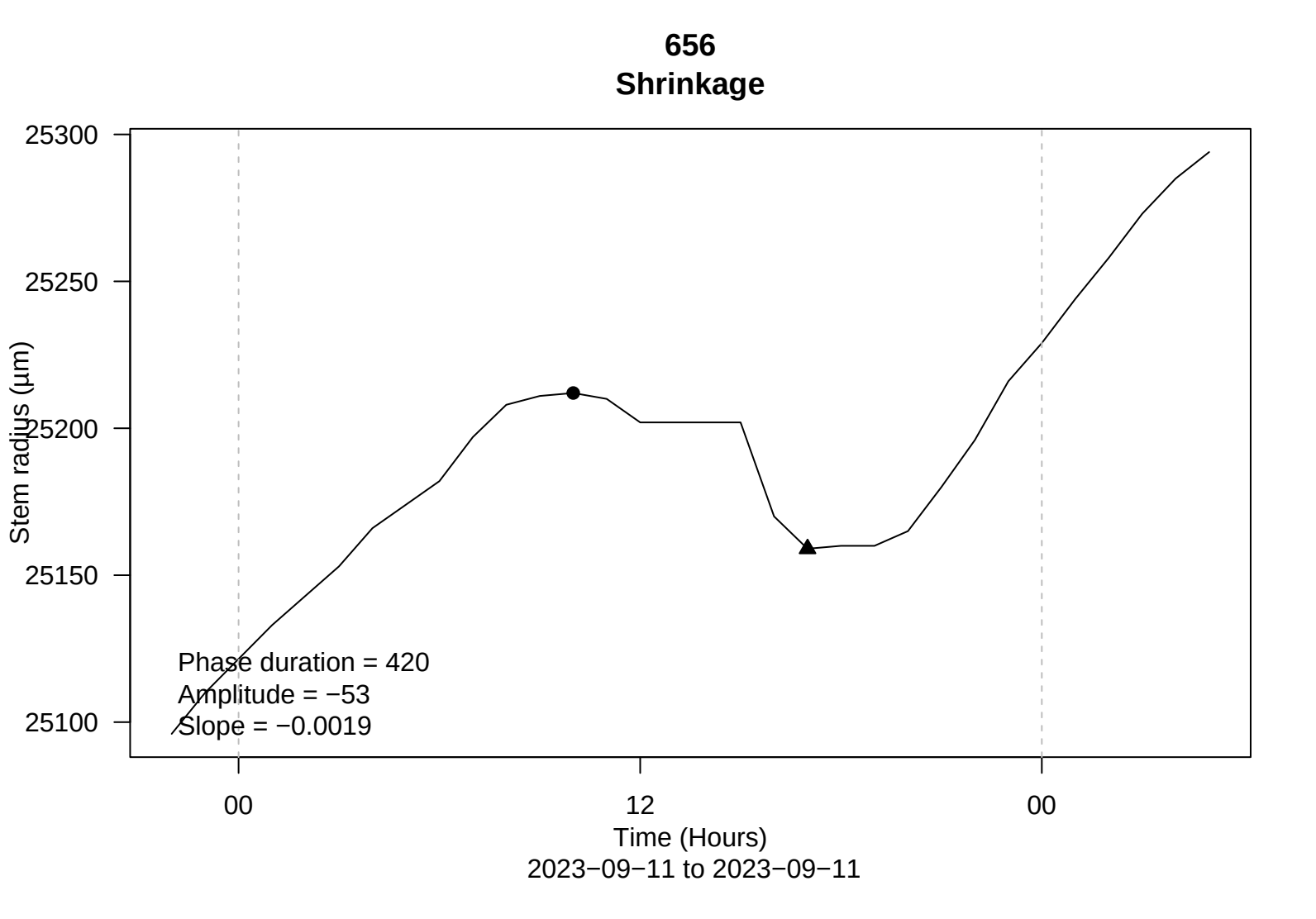

656
Expansion
25100
25050
25000
24950
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−08 to 2023−09−09
Phase duration = 960
Amplitude = 168
Slope = 0.0033

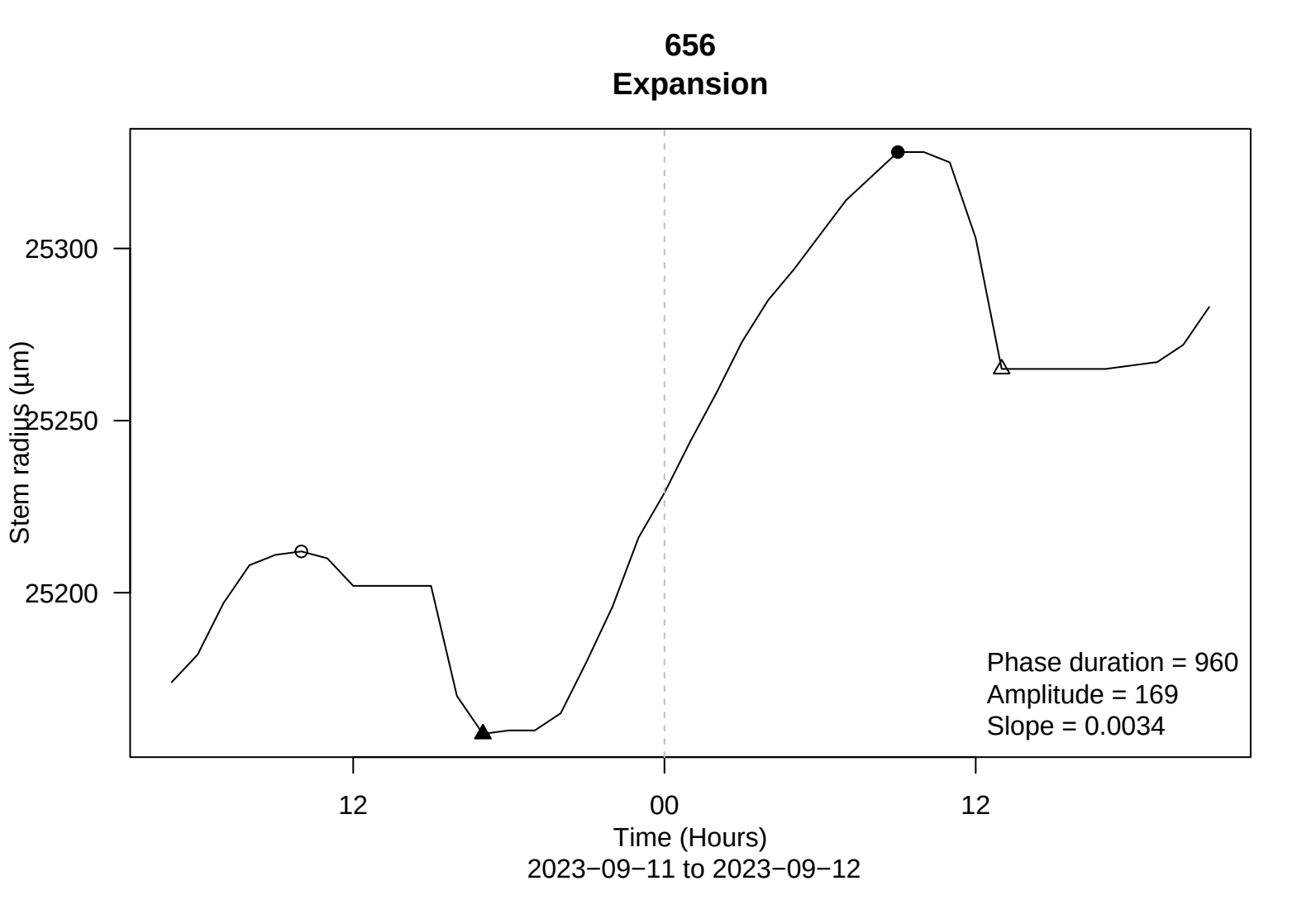

656
Shrinkage
25150
25100
25050
25000
Stem radius (µm)
Phase duration = 540
Amplitude = −96
Slope = −0.0033
00
12
00
Time (Hours)
2023−09−09 to 2023−09−09

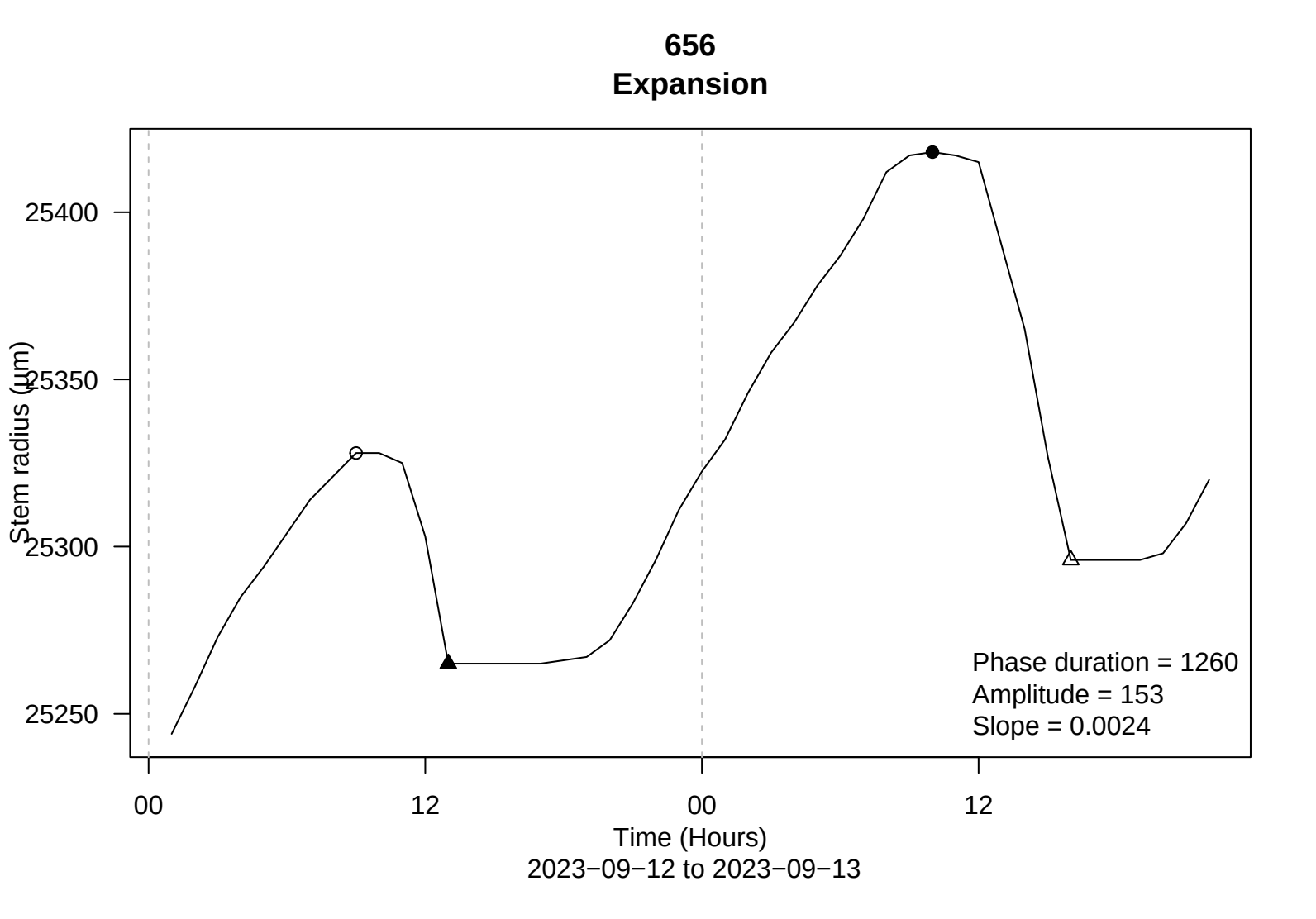

656
Expansion
25140
25120
25100
25080
25060
25040
Stem radius (µm)
Phase duration = 720
Amplitude = 126
Slope = 0.0031
12
00
12
Time (Hours)
2023−09−09 to 2023−09−10

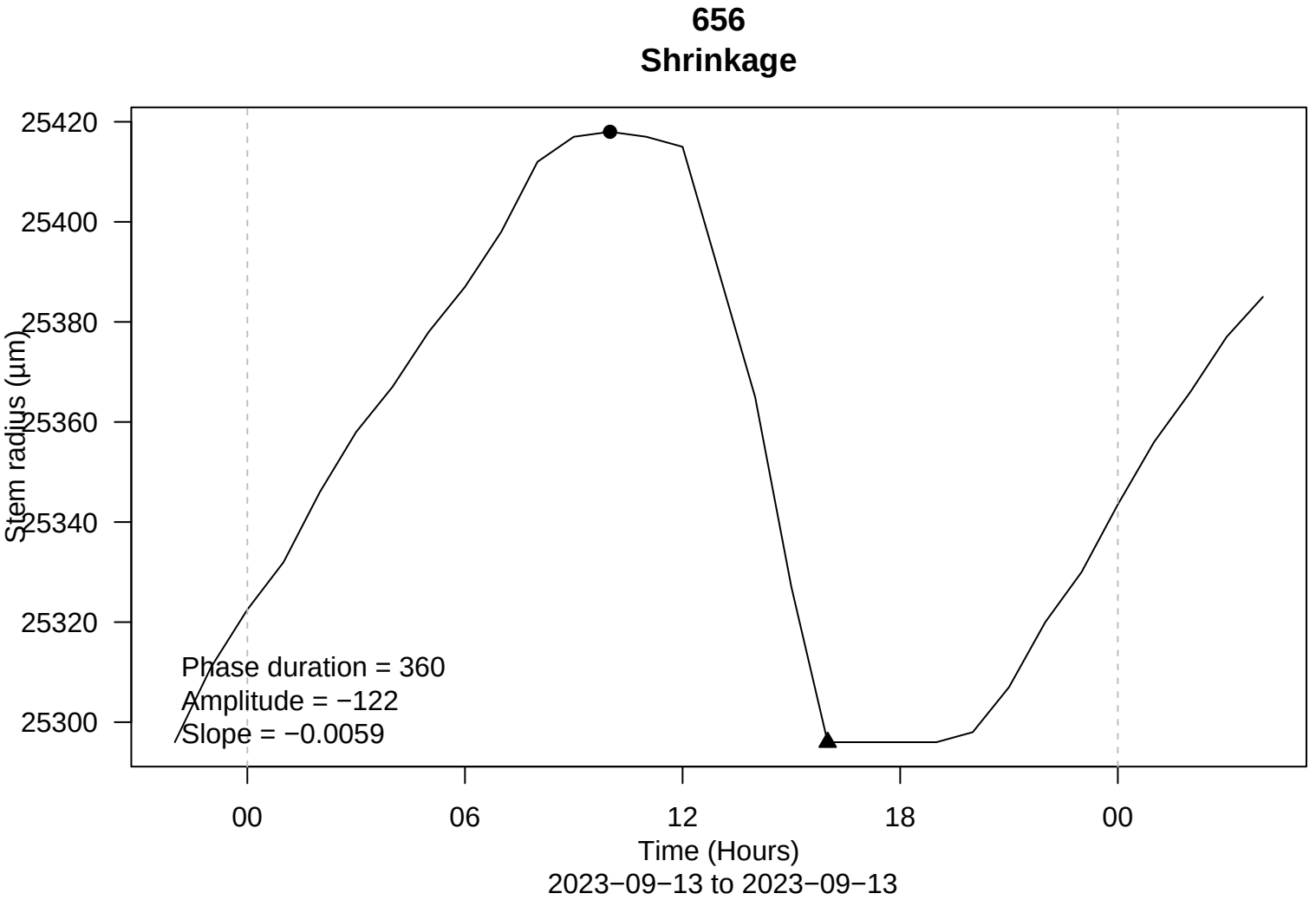

656
Shrinkage
25150
25100
25050
Stem radius (µm)
Phase duration = 660
Amplitude = −87
Slope = −0.0023
00
12
00
Time (Hours)
2023−09−10 to 2023−09−10

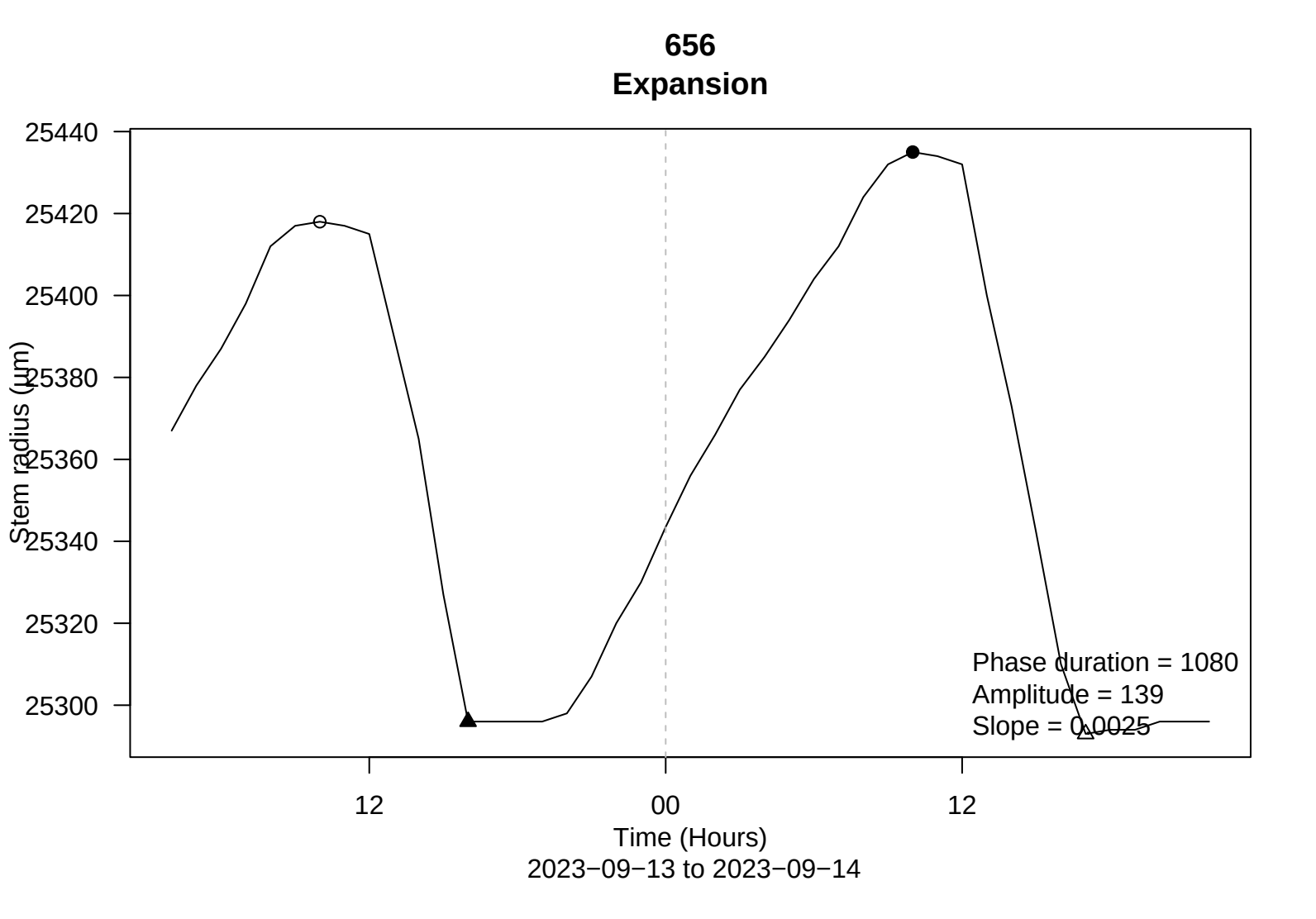

656
Expansion
25200
25150
25100
Stem radius (µm)
Phase duration = 1020
Amplitude = 146
Slope = 0.0028
12
00
12
Time (Hours)
2023−09−10 to 2023−09−11

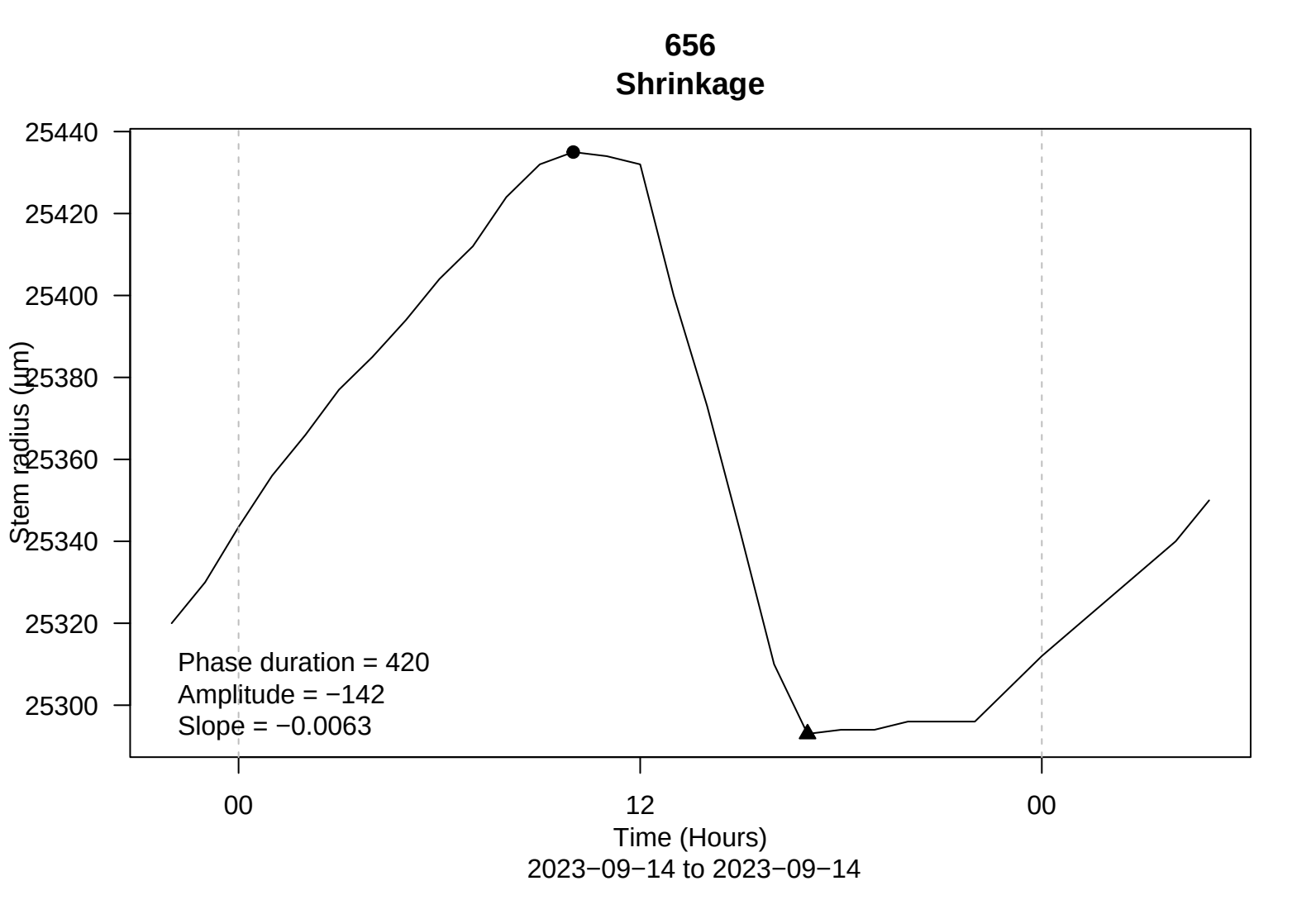

656
Shrinkage
25300
25250
25200
25150
25100
Stem radius (µm)
Phase duration = 420
Amplitude = −53
Slope = −0.0019
00
12
00
Time (Hours)
2023−09−11 to 2023−09−11

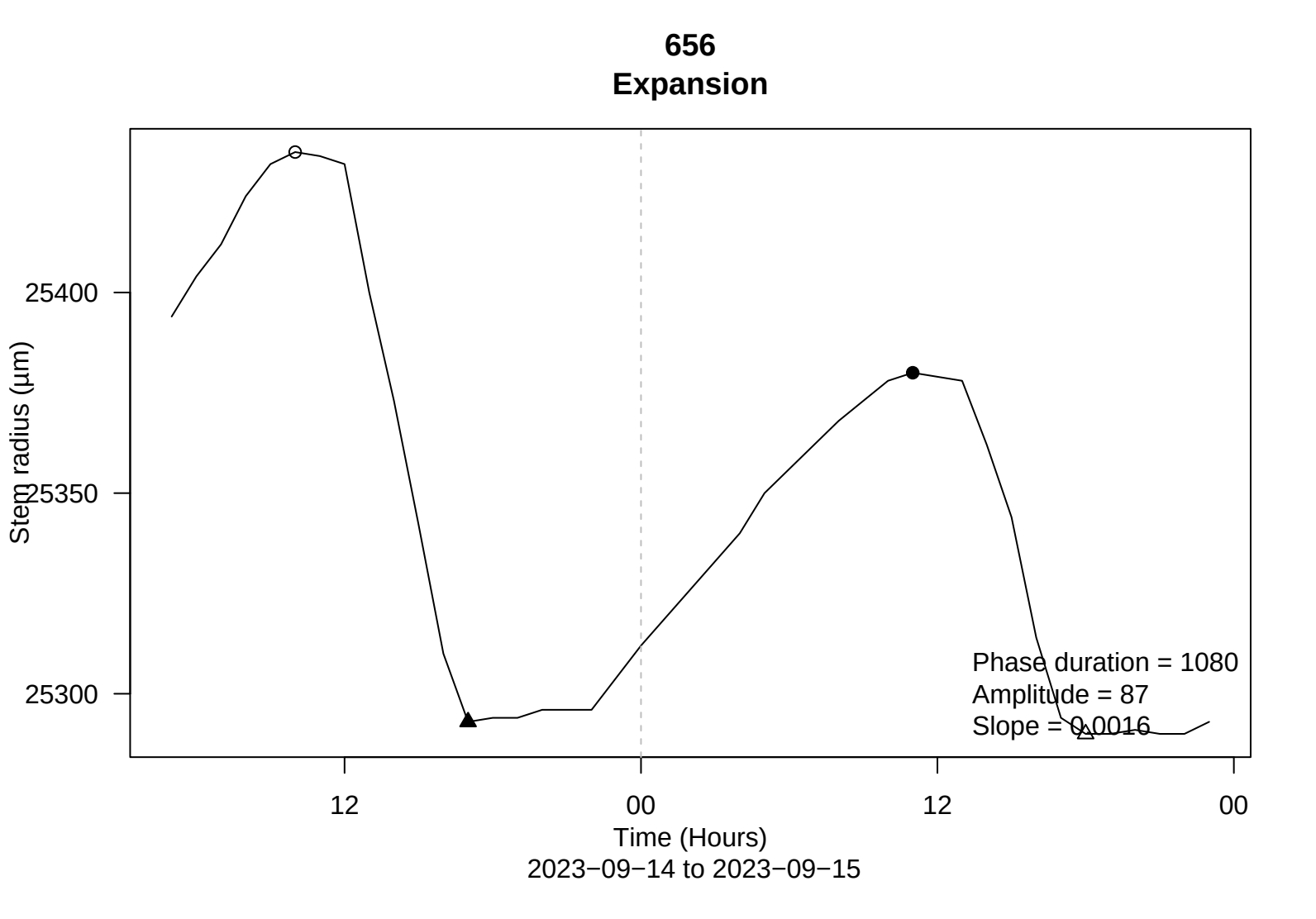

656
Expansion
25300
25250
25200
Stem radius (µm)
Phase duration = 960
Amplitude = 169
Slope = 0.0034
12
00
12
Time (Hours)
2023−09−11 to 2023−09−12

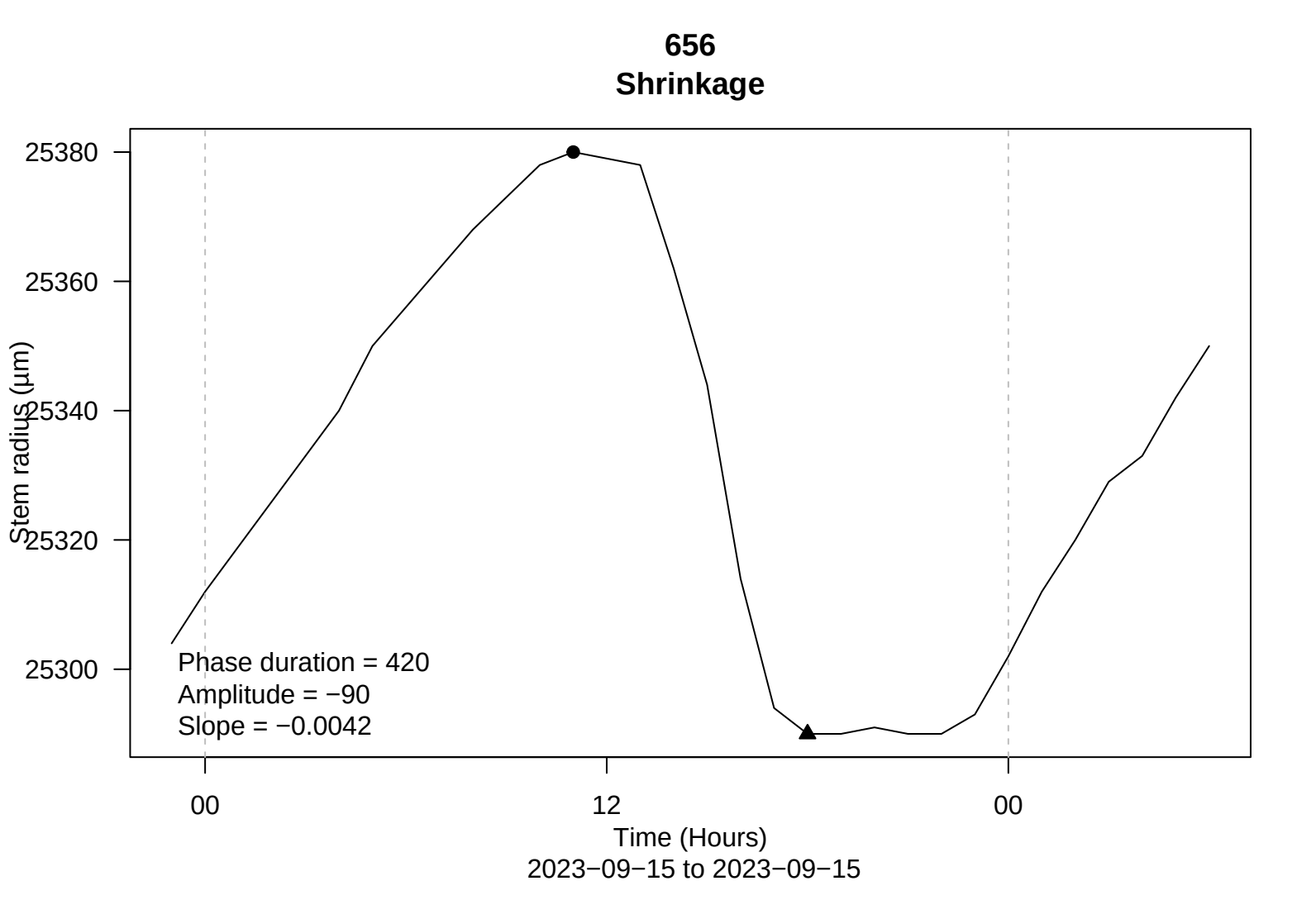

656
Expansion
25400
25350
25300
25250
Stem radius (µm)
Phase duration = 1260
Amplitude = 153
Slope = 0.0024
00
12
00
12
Time (Hours)
2023−09−12 to 2023−09−13

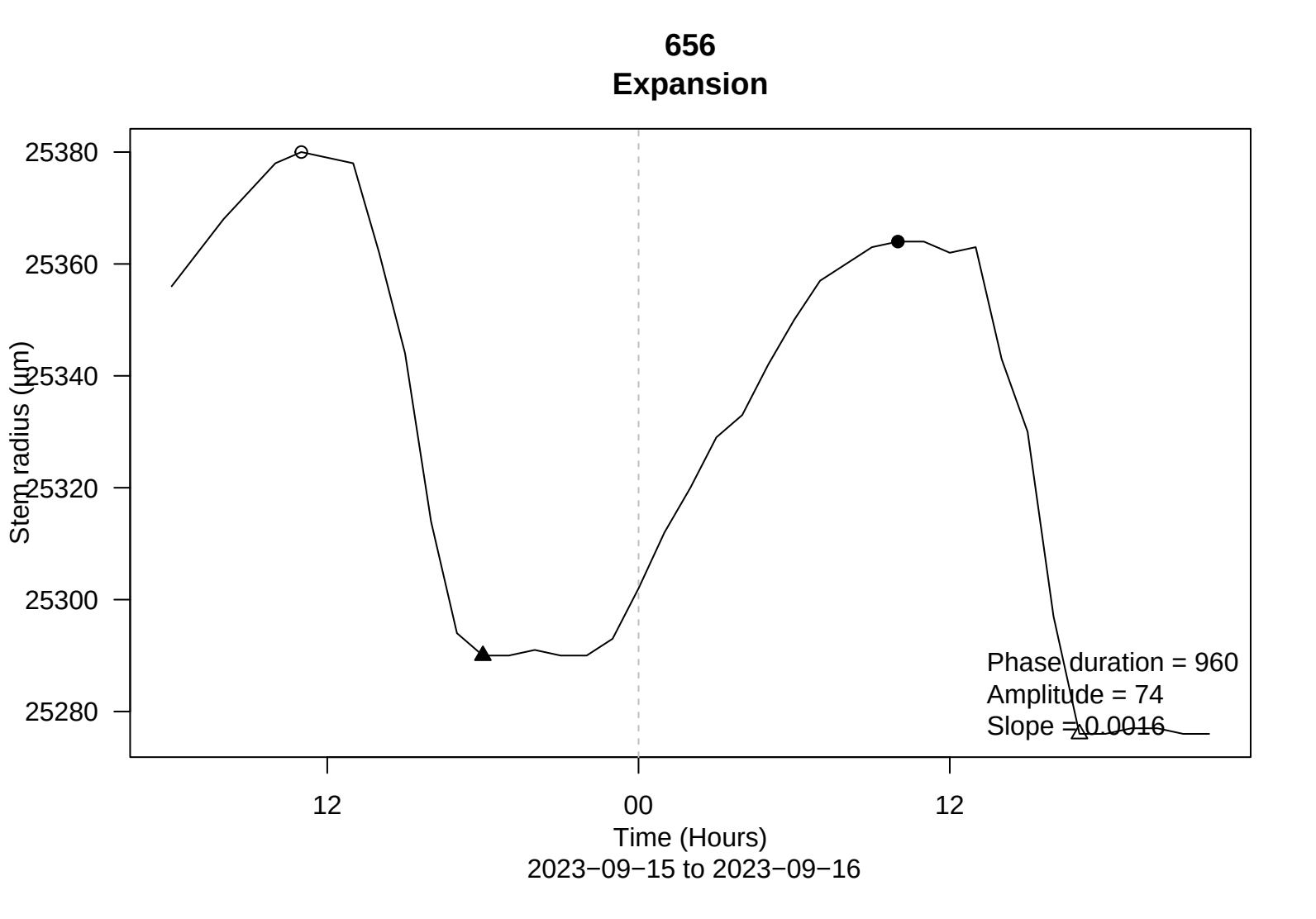

656
Shrinkage
25420
25400
25380
25360
25340
25320
25300
Stem radius (µm)
Phase duration = 360
Amplitude = −122
Slope = −0.0059
00
06
12
18
00
Time (Hours)
2023−09−13 to 2023−09−13

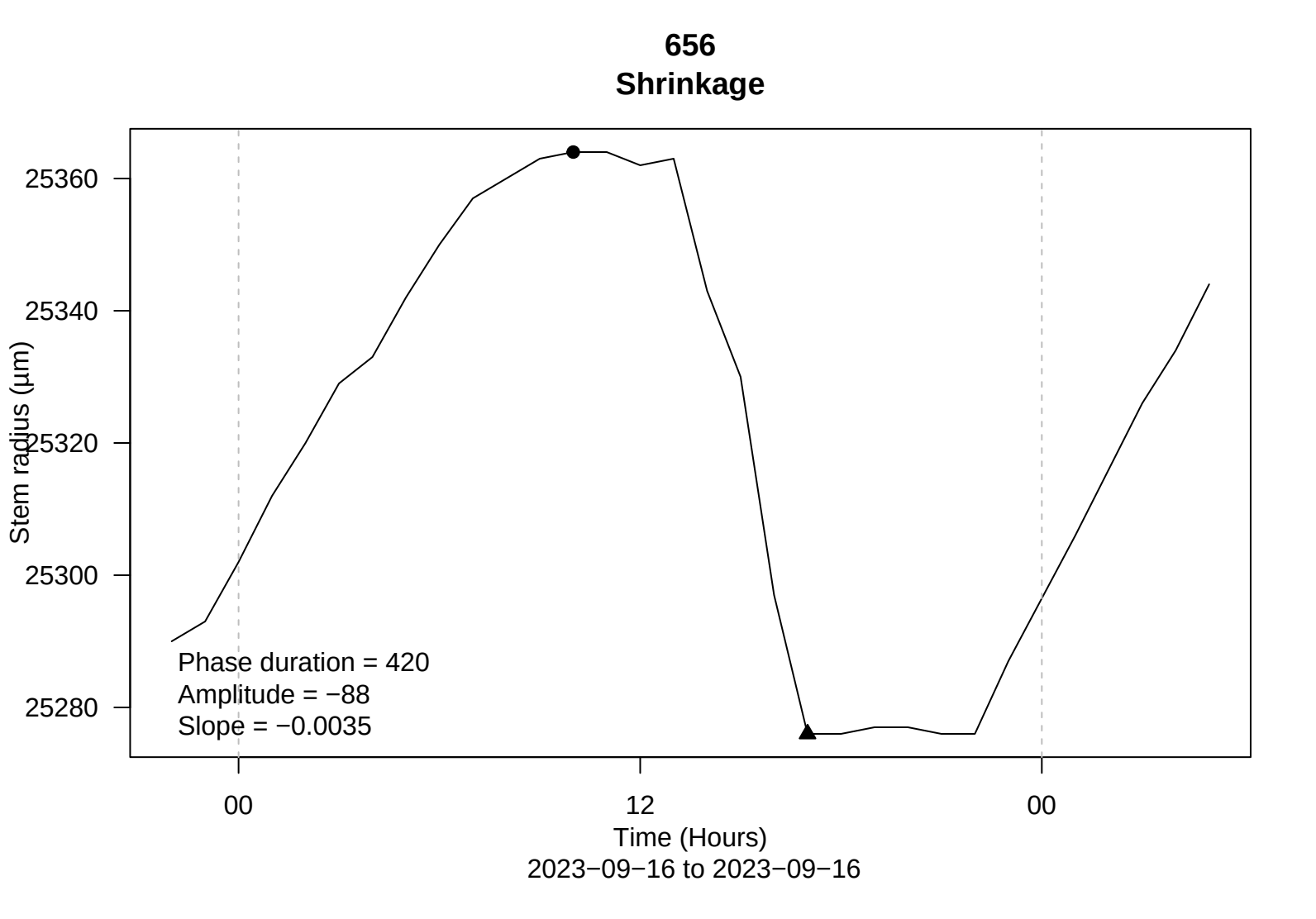

656
Expansion
25440
25420
25400
25380
25360
25340
25320
25300
Stem radius (µm)
Phase duration = 1080
Amplitude = 139
Slope = 0.0025
12
00
12
Time (Hours)
2023−09−13 to 2023−09−14

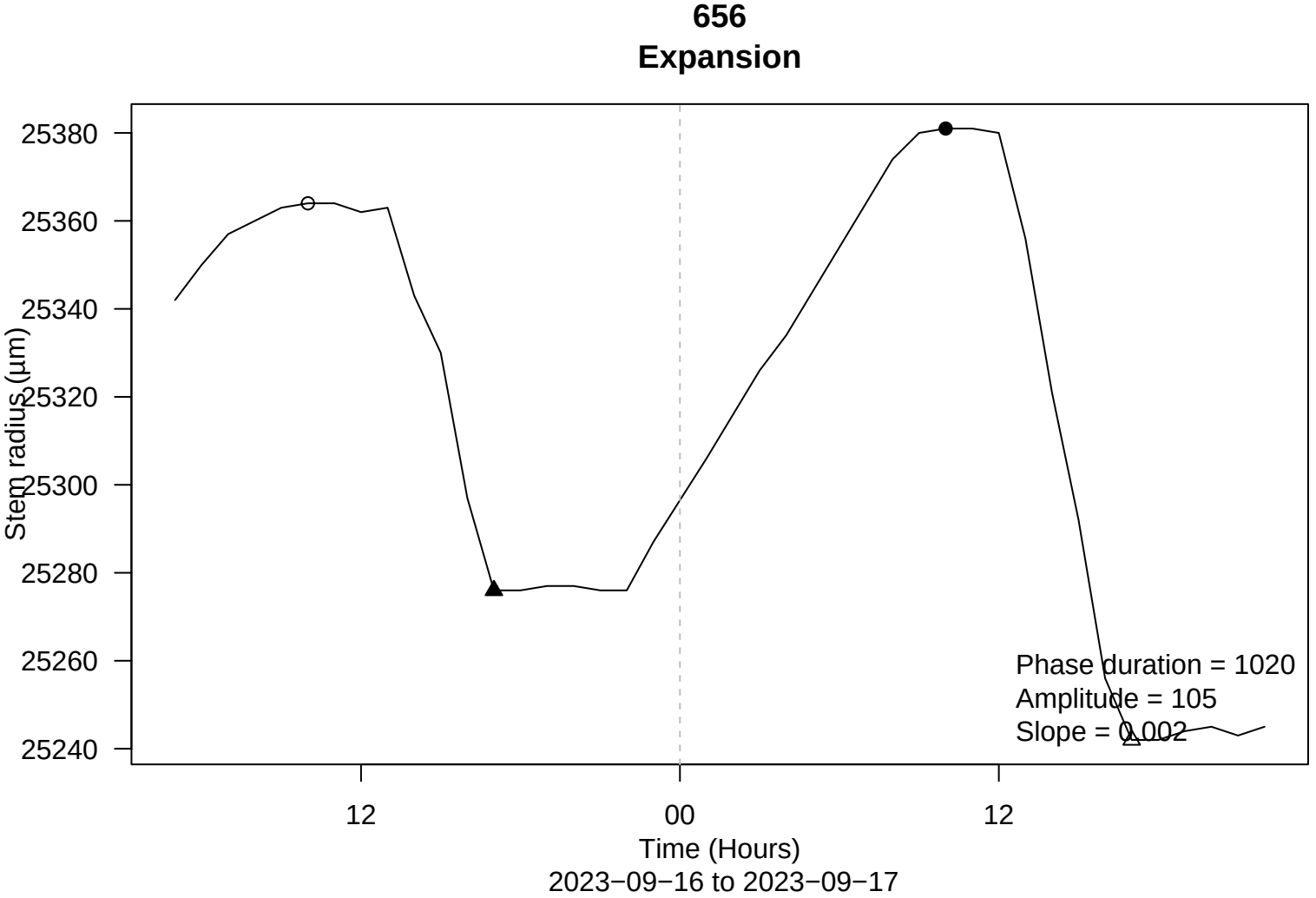

656
Shrinkage
25440
25420
25400
25380
25360
25340
25320
25300
Stem radius (µm)
Phase duration = 420
Amplitude = −142
Slope = −0.0063
00
12
00
Time (Hours)
2023−09−14 to 2023−09−14

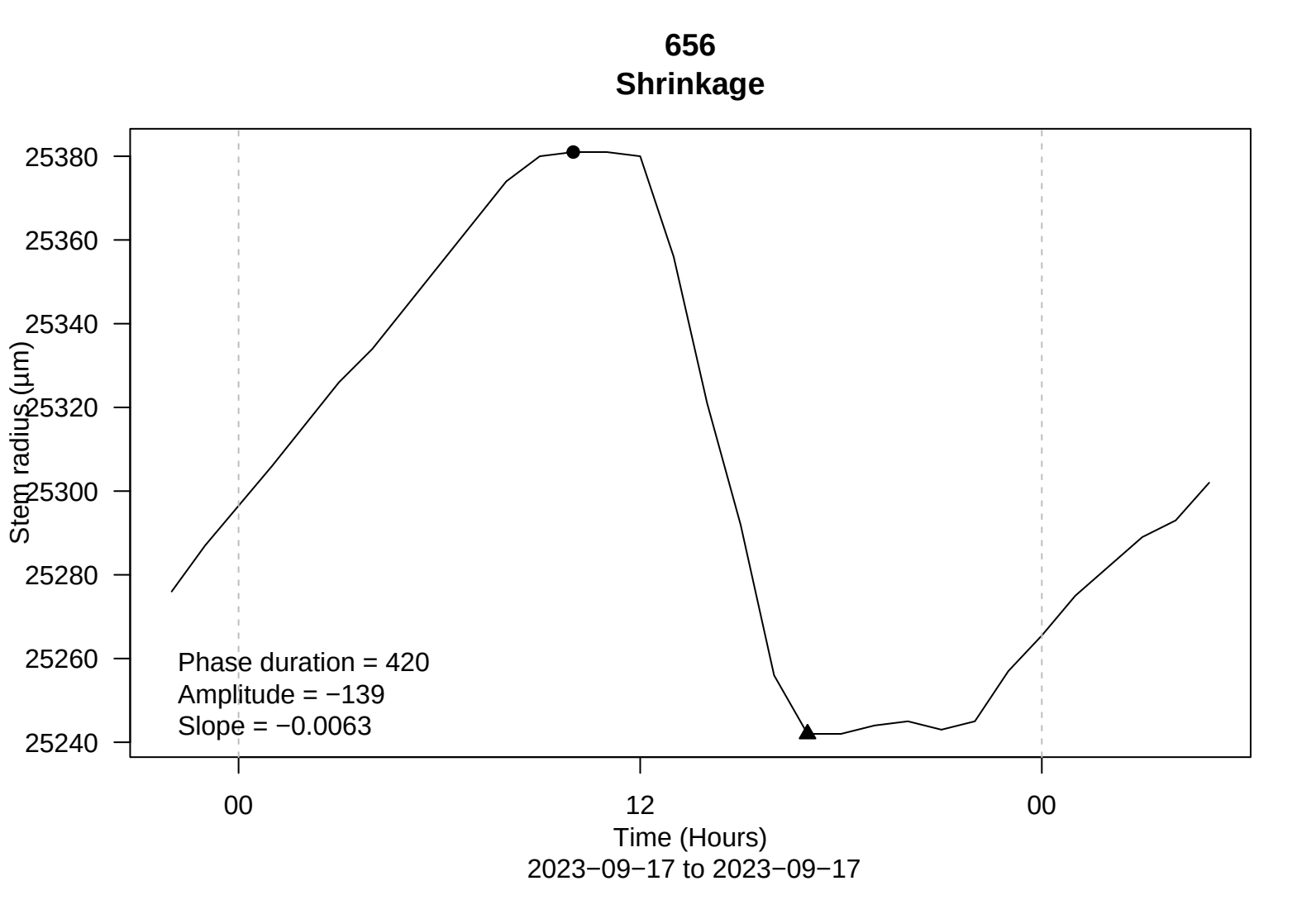

656
Expansion
25400
25350
25300
Stem radius (µm)
Phase duration = 1080
Amplitude = 87
Slope = 0.0016
12
00
12
00
Time (Hours)
2023−09−14 to 2023−09−15

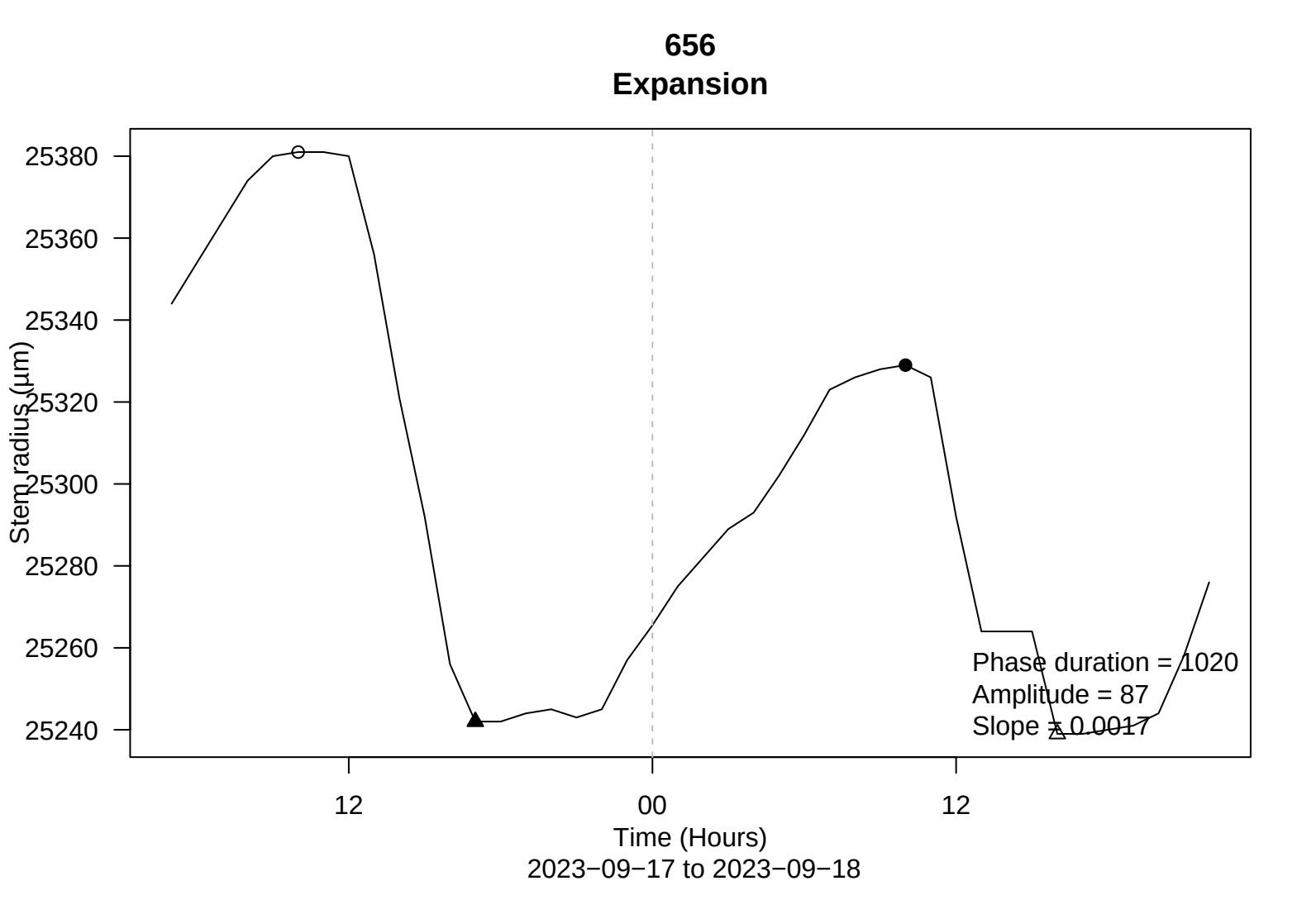

656
Shrinkage
25380
25360
25340
25320
25300
Stem radius (µm)
Phase duration = 420
Amplitude = −90
Slope = −0.0042
00
12
00
Time (Hours)
2023−09−15 to 2023−09−15

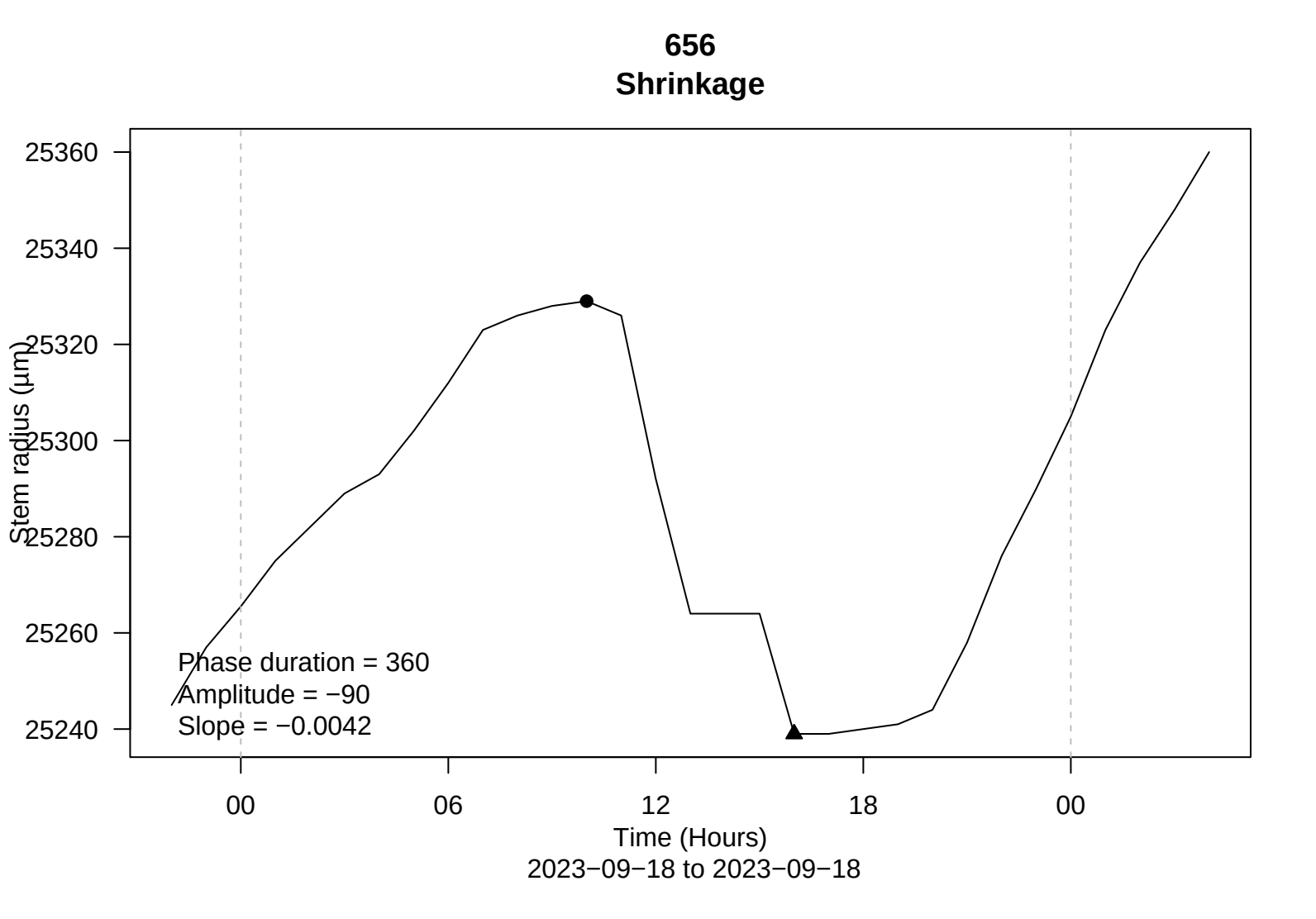

656
Expansion
25380
25360
25340
25320
25300
25280
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−15 to 2023−09−16
Phase duration = 960
Amplitude = 74
Slope = 0.0016

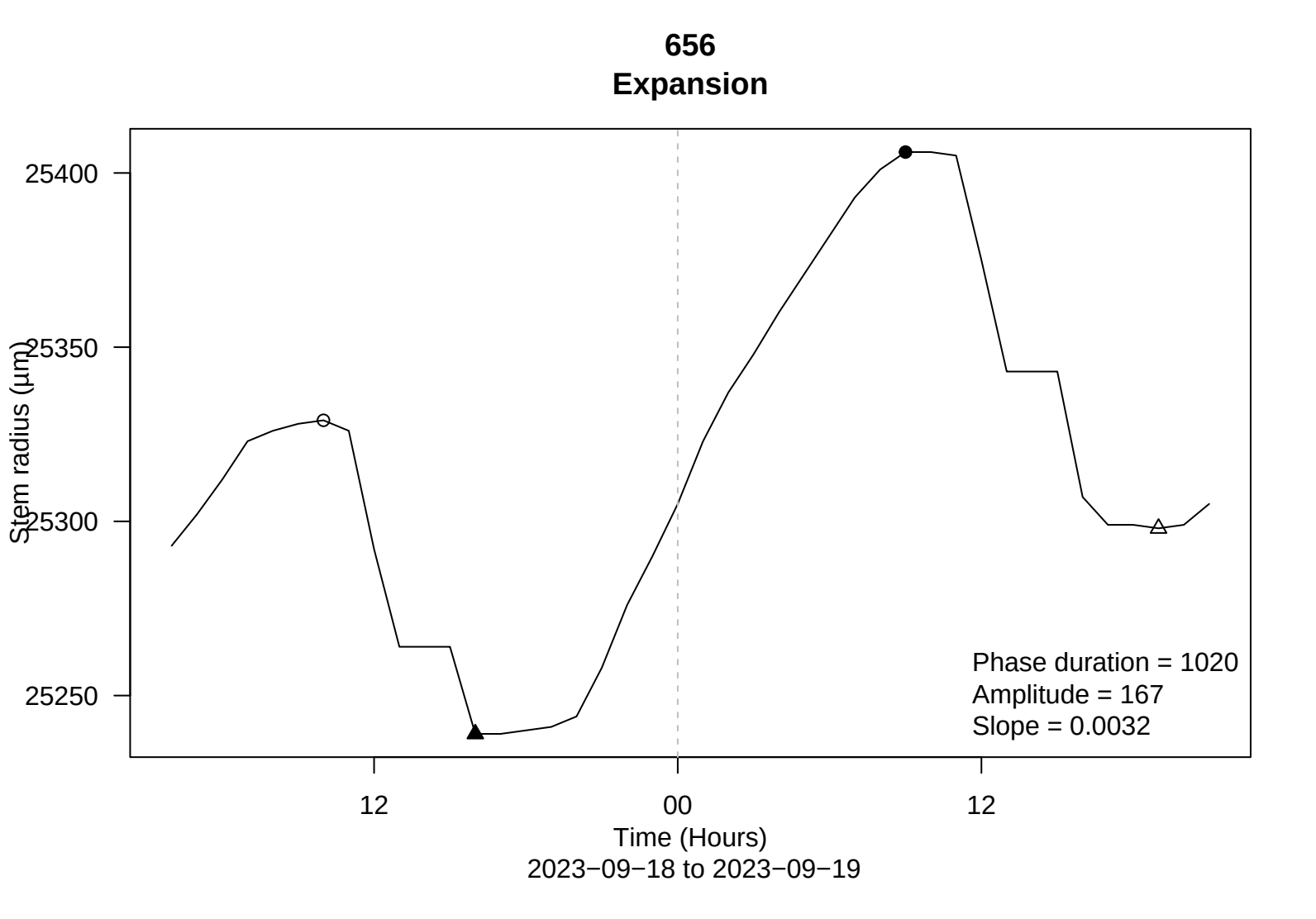

656
Shrinkage
25360
25340
25320
25300
25280
Stem radius (µm)
Phase duration = 420
Amplitude = −88
Slope = −0.0035
00
12
00
Time (Hours)
2023−09−16 to 2023−09−16

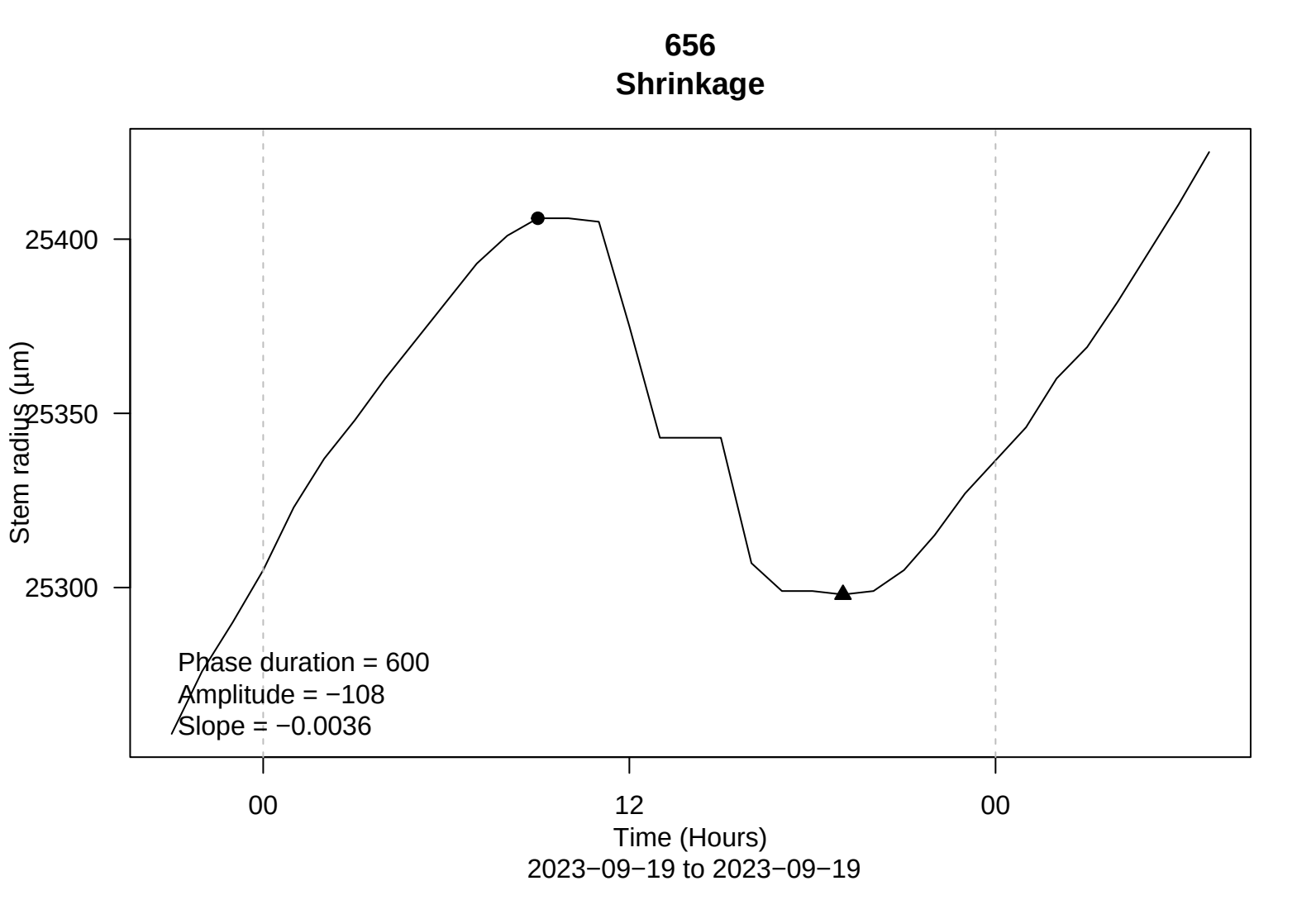

656
Expansion
25380
25360
25340
25320
25300
25280
25260
25240
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−16 to 2023−09−17
Phase duration = 1020
Amplitude = 105
Slope = 0.002

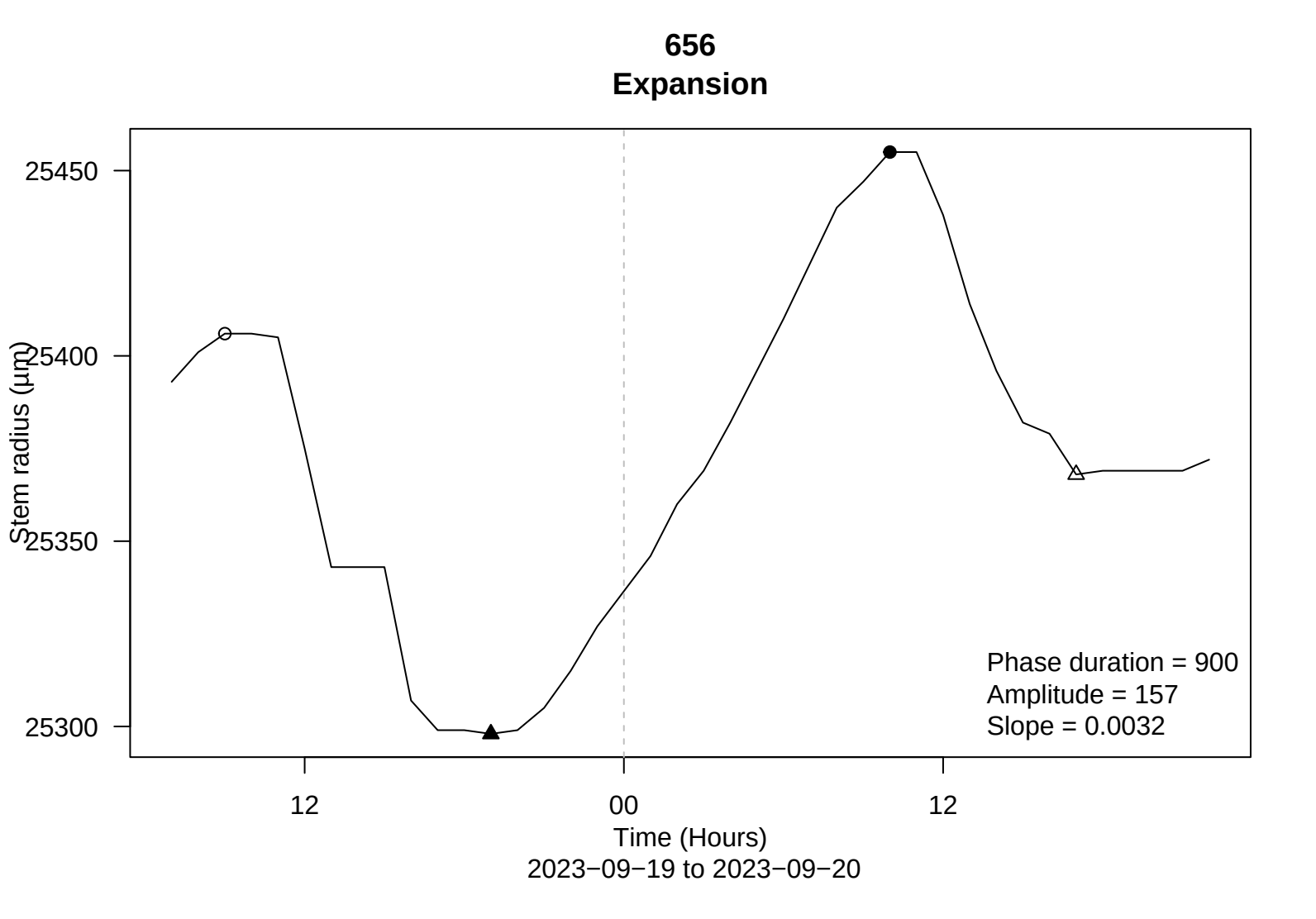

656
Shrinkage
25380
25360
25340
25320
25300
25280
25260
25240
Stem radius (µm)
Phase duration = 420
Amplitude = −139
Slope = −0.0063
00
12
00
Time (Hours)
2023−09−17 to 2023−09−17

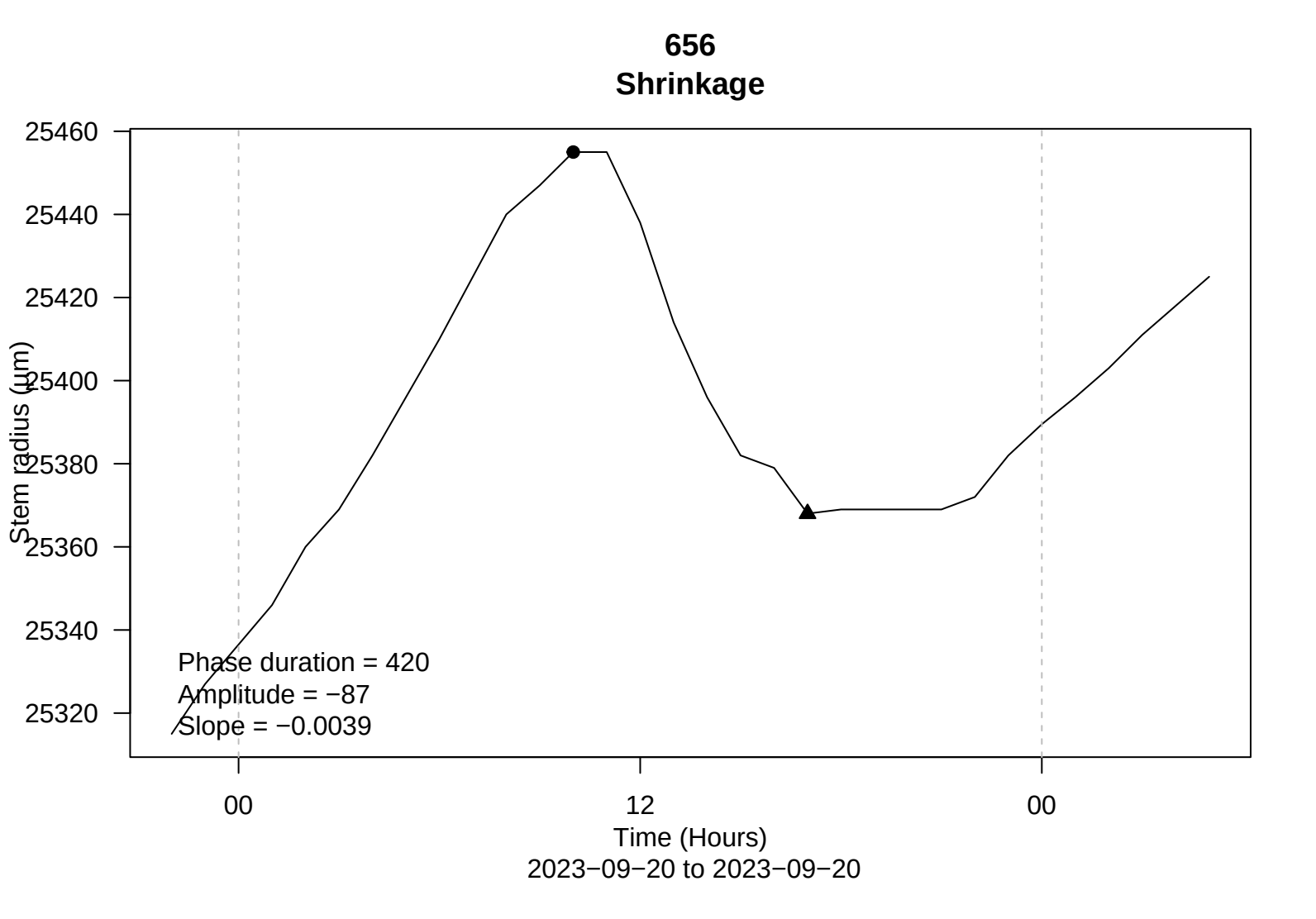

656
Expansion
25380
25360
25340
25320
25300
25280
25260
25240
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−17 to 2023−09−18
Phase duration = 1020
Amplitude = 87
Slope = 0.0017

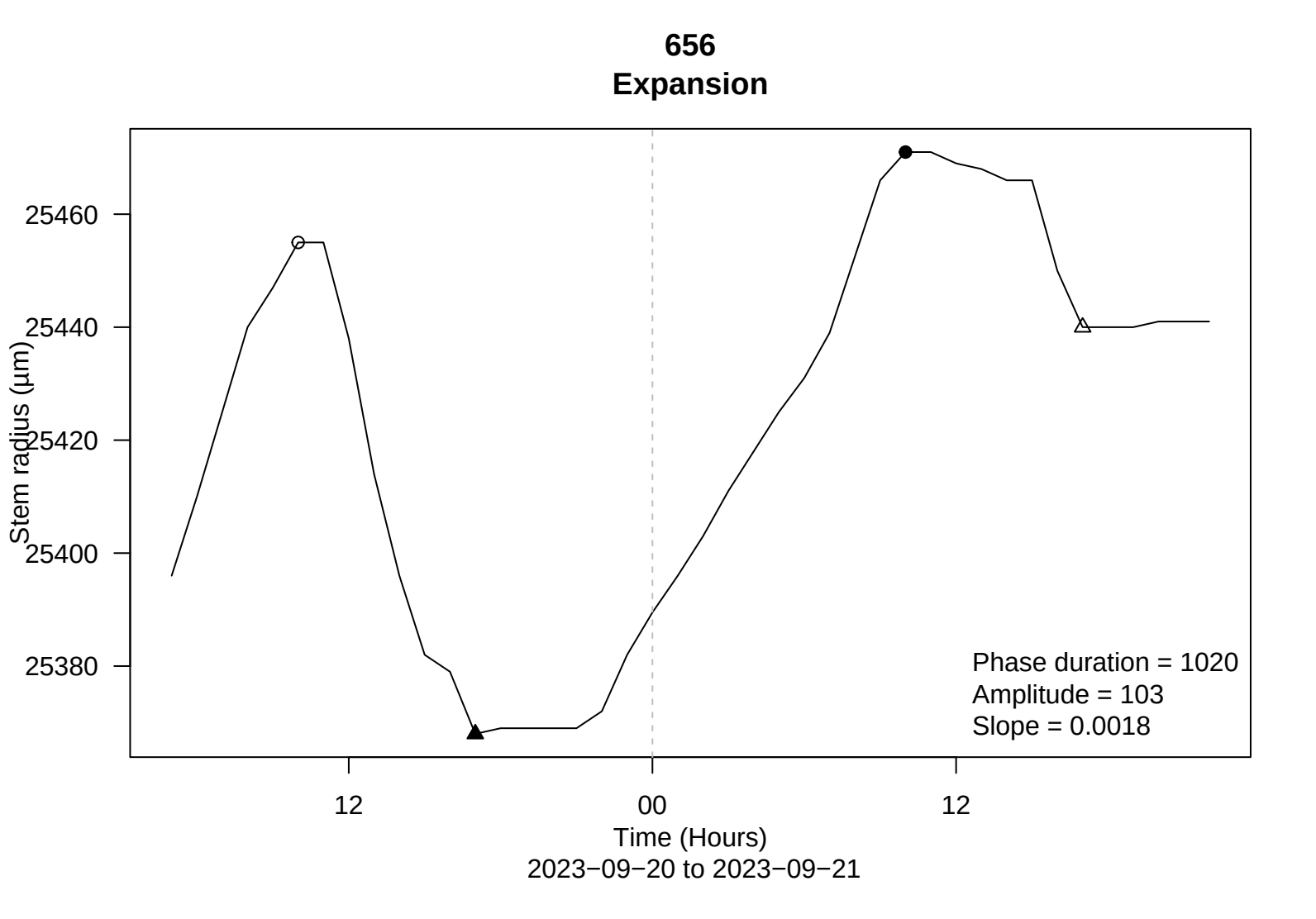

656
Shrinkage
25360
25340
25320
25300
25280
25260
25240
Stem radius (µm)
Phase duration = 360
Amplitude = −90
Slope = −0.0042
00
06
12
18
00
Time (Hours)
2023−09−18 to 2023−09−18

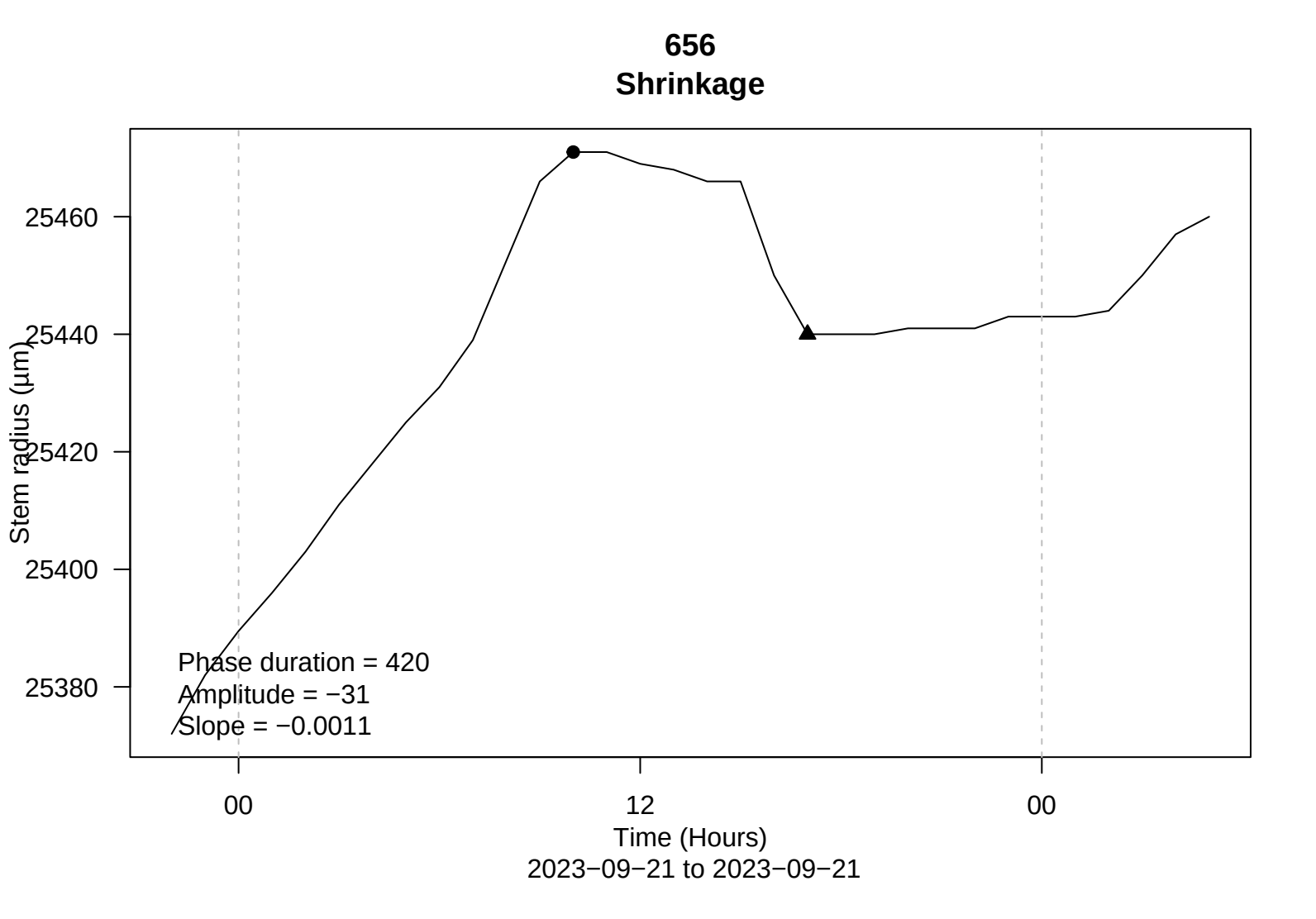

656
Expansion
25400
25350
25300
25250
Stem radius (µm)
Phase duration = 1020
Amplitude = 167
Slope = 0.0032
12
00
12
Time (Hours)
2023−09−18 to 2023−09−19

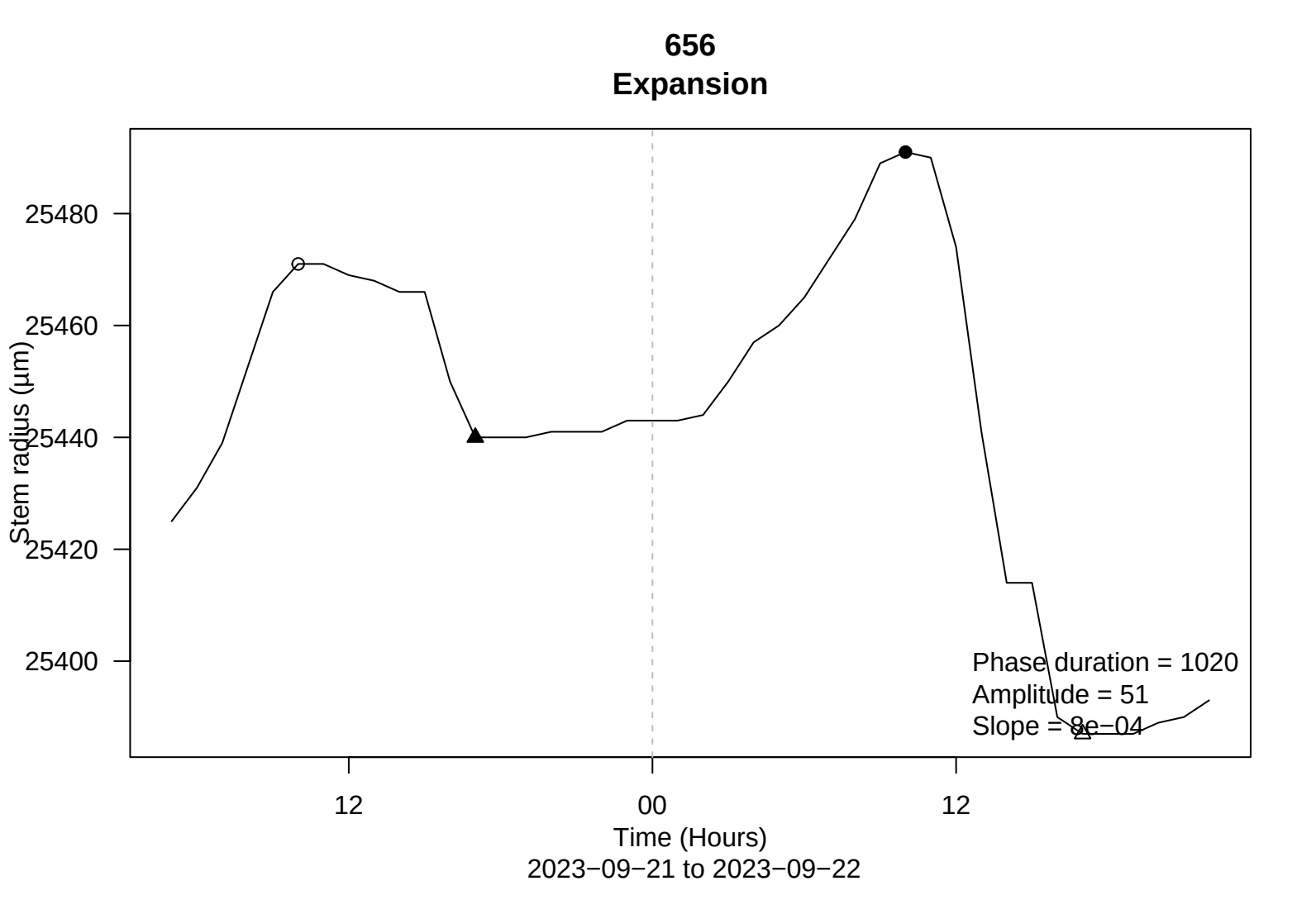

656
Shrinkage
25400
25350
25300
Stem radius (µm)
Phase duration = 600
Amplitude = −108
Slope = −0.0036
00
12
00
Time (Hours)
2023−09−19 to 2023−09−19

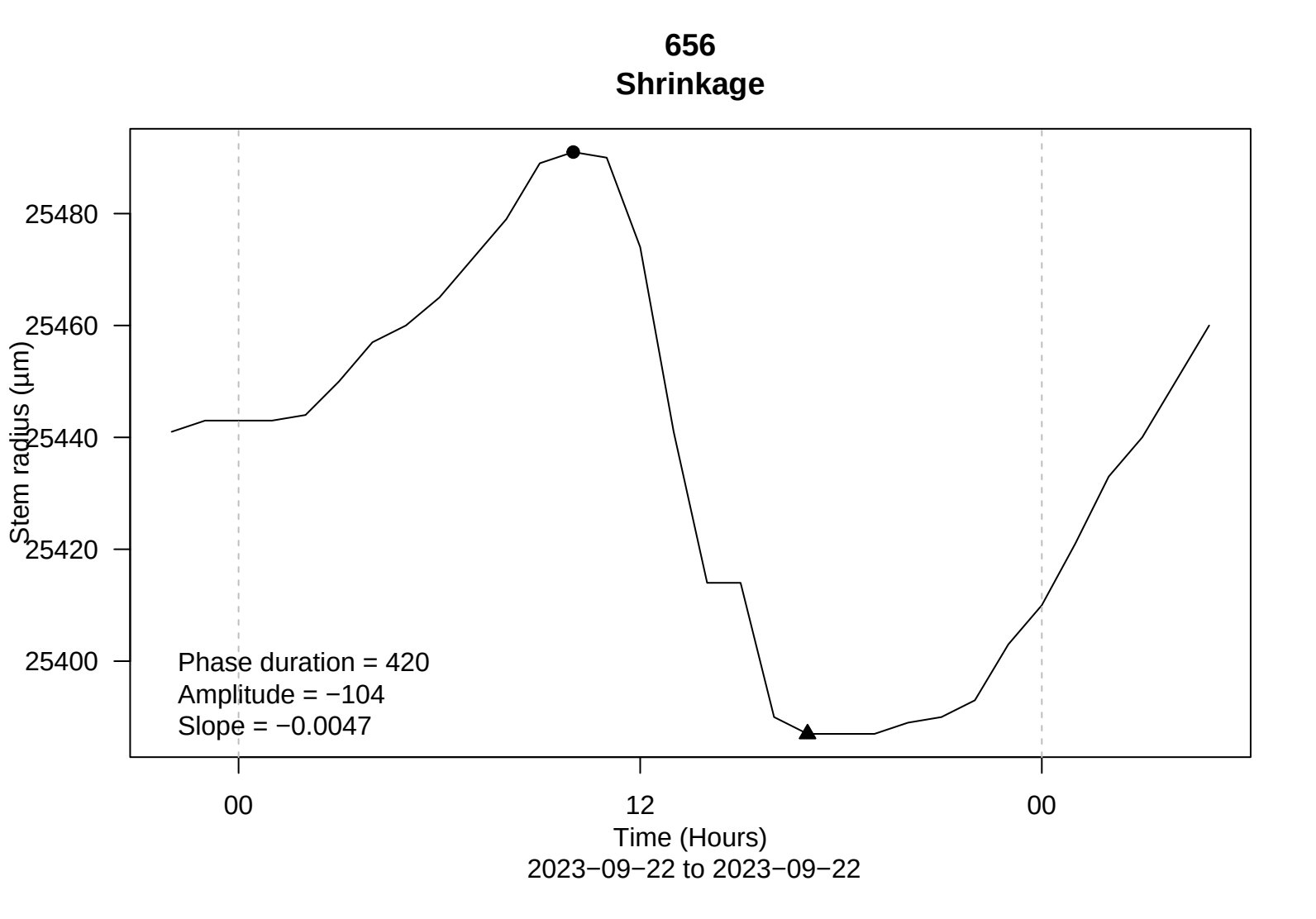

656
Expansion
25450
25400
25350
25300
Stem radius (µm)
Phase duration = 900
Amplitude = 157
Slope = 0.0032
12
00
12
Time (Hours)
2023−09−19 to 2023−09−20

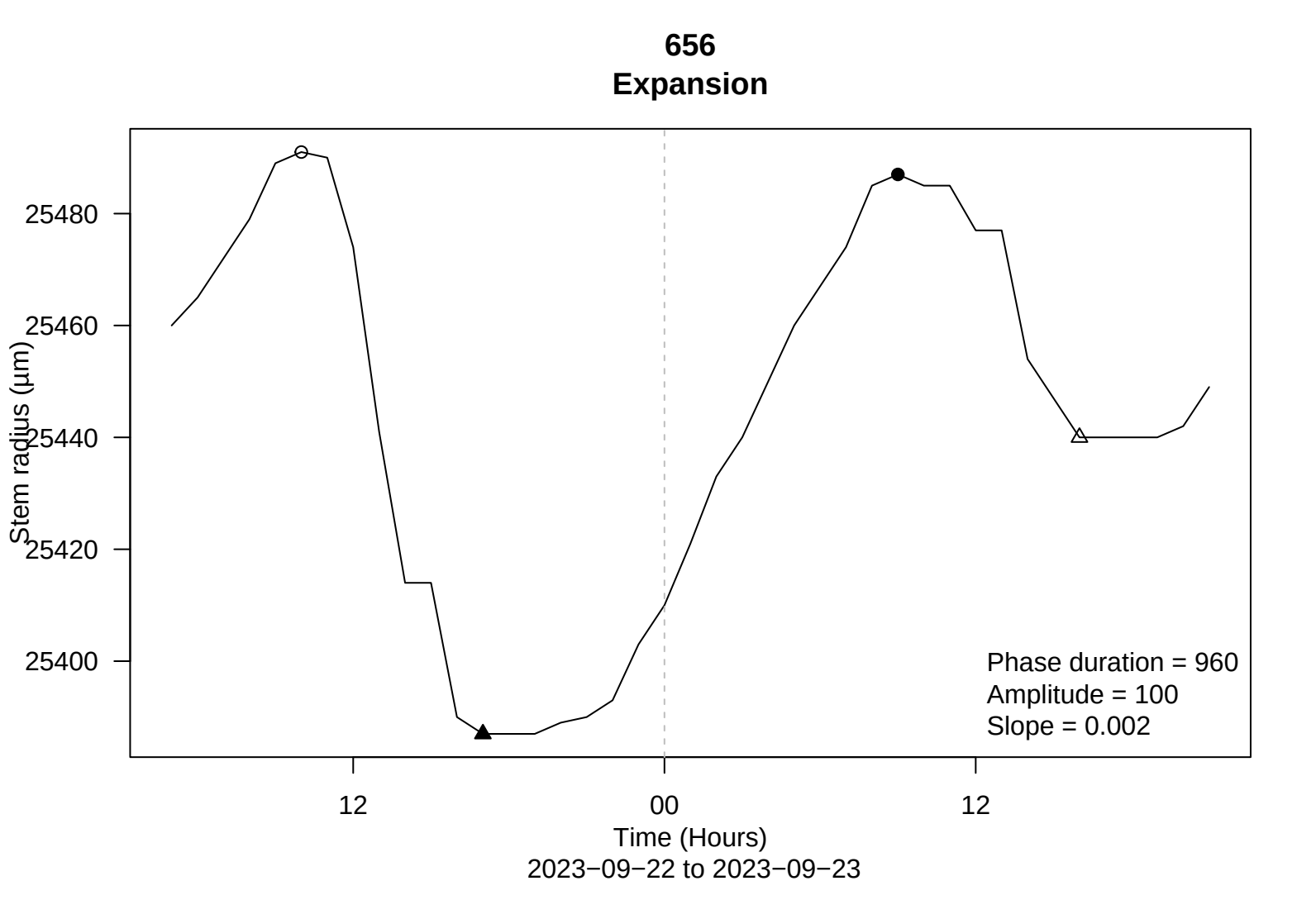

656
Shrinkage
25460
25440
25420
25400
25380
25360
25340
25320
Stem radius (µm)
Phase duration = 420
Amplitude = −87
Slope = −0.0039
00
12
00
Time (Hours)
2023−09−20 to 2023−09−20

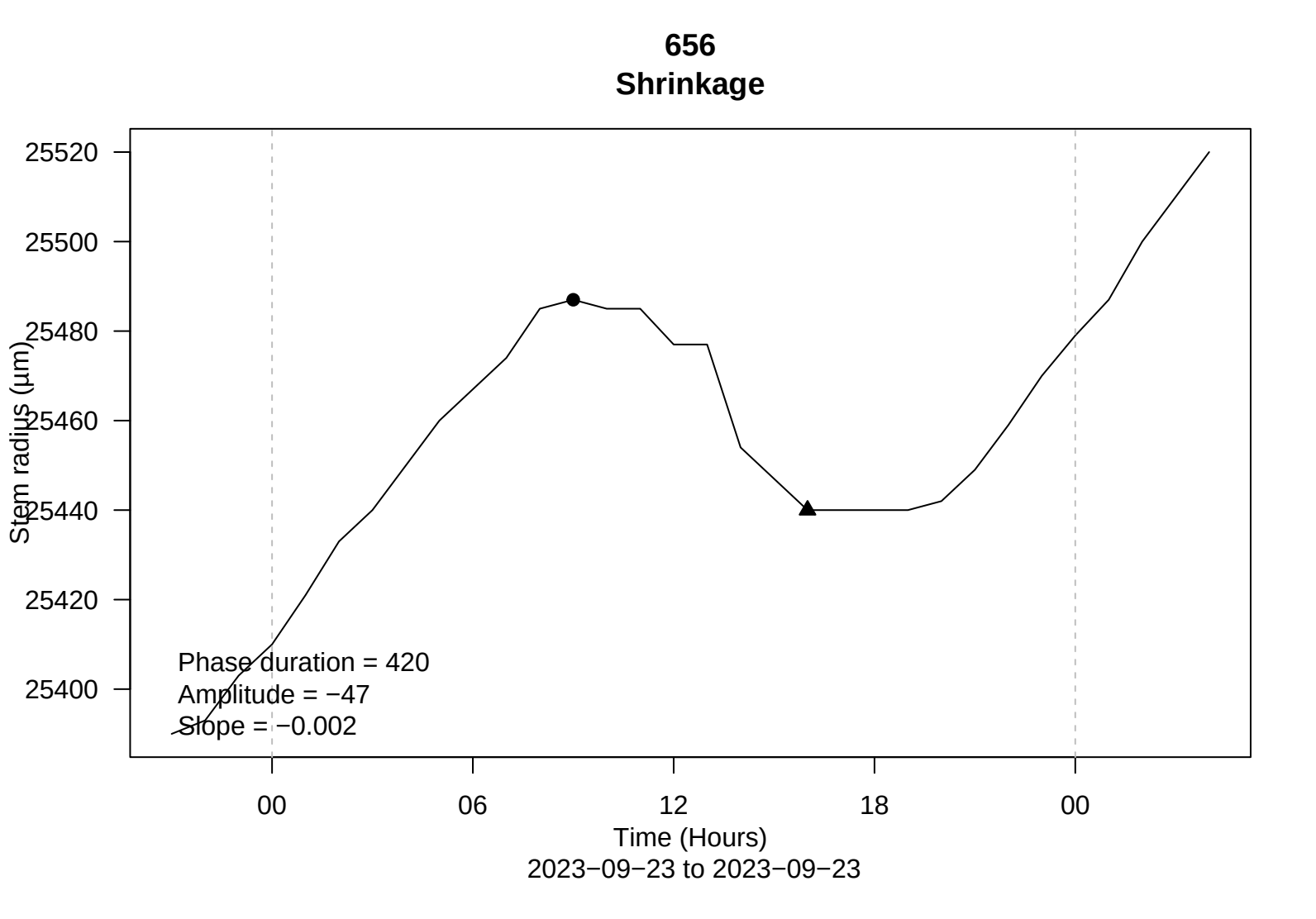

656
Expansion
25460
25440
25420
25400
25380
Stem radius (µm)
Phase duration = 1020
Amplitude = 103
Slope = 0.0018
12
00
12
Time (Hours)
2023−09−20 to 2023−09−21

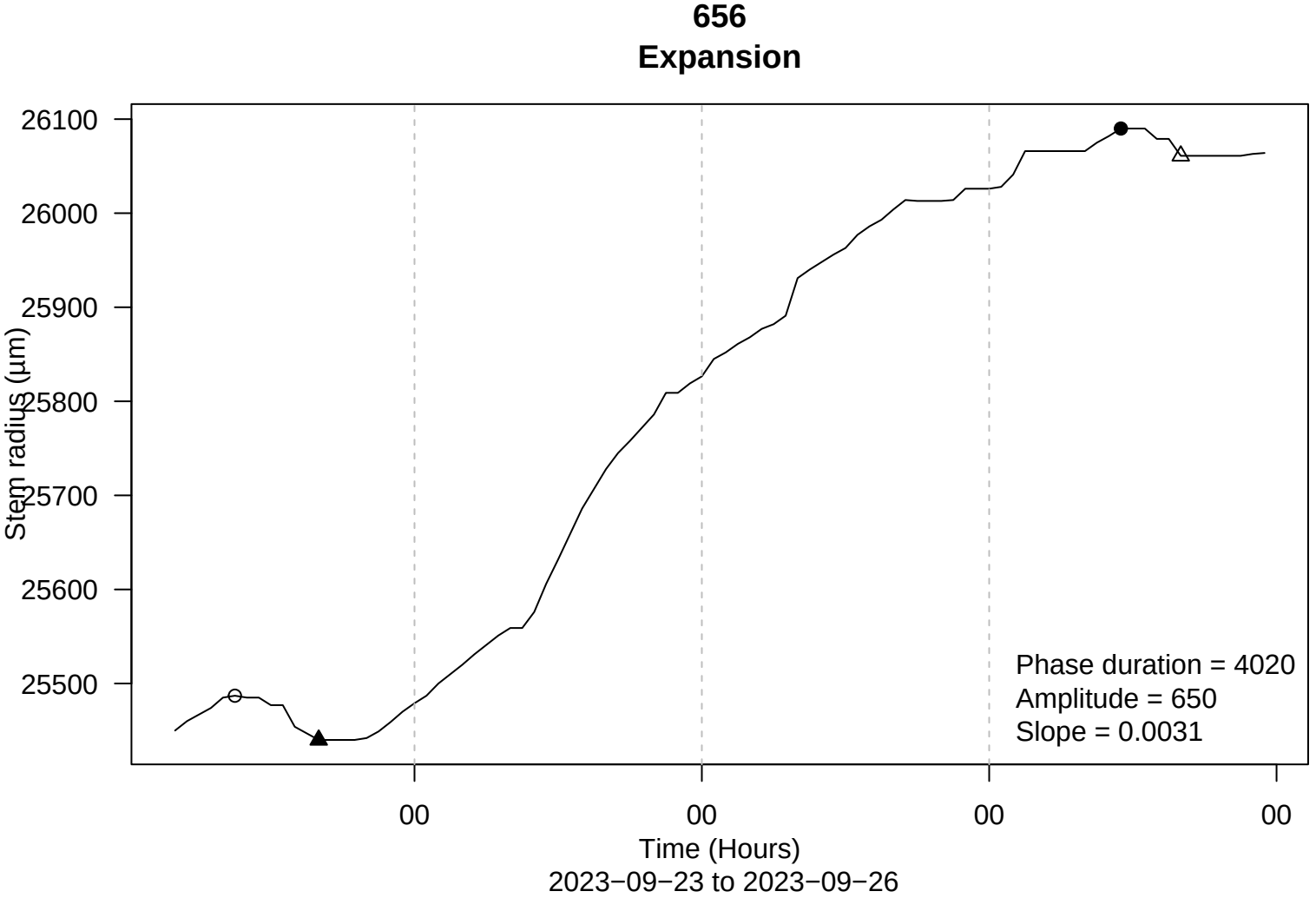

656
Shrinkage
25460
25440
25420
25400
25380
Stem radius (µm)
Phase duration = 420
Amplitude = −31
Slope = −0.0011
00
12
00
Time (Hours)
2023−09−21 to 2023−09−21

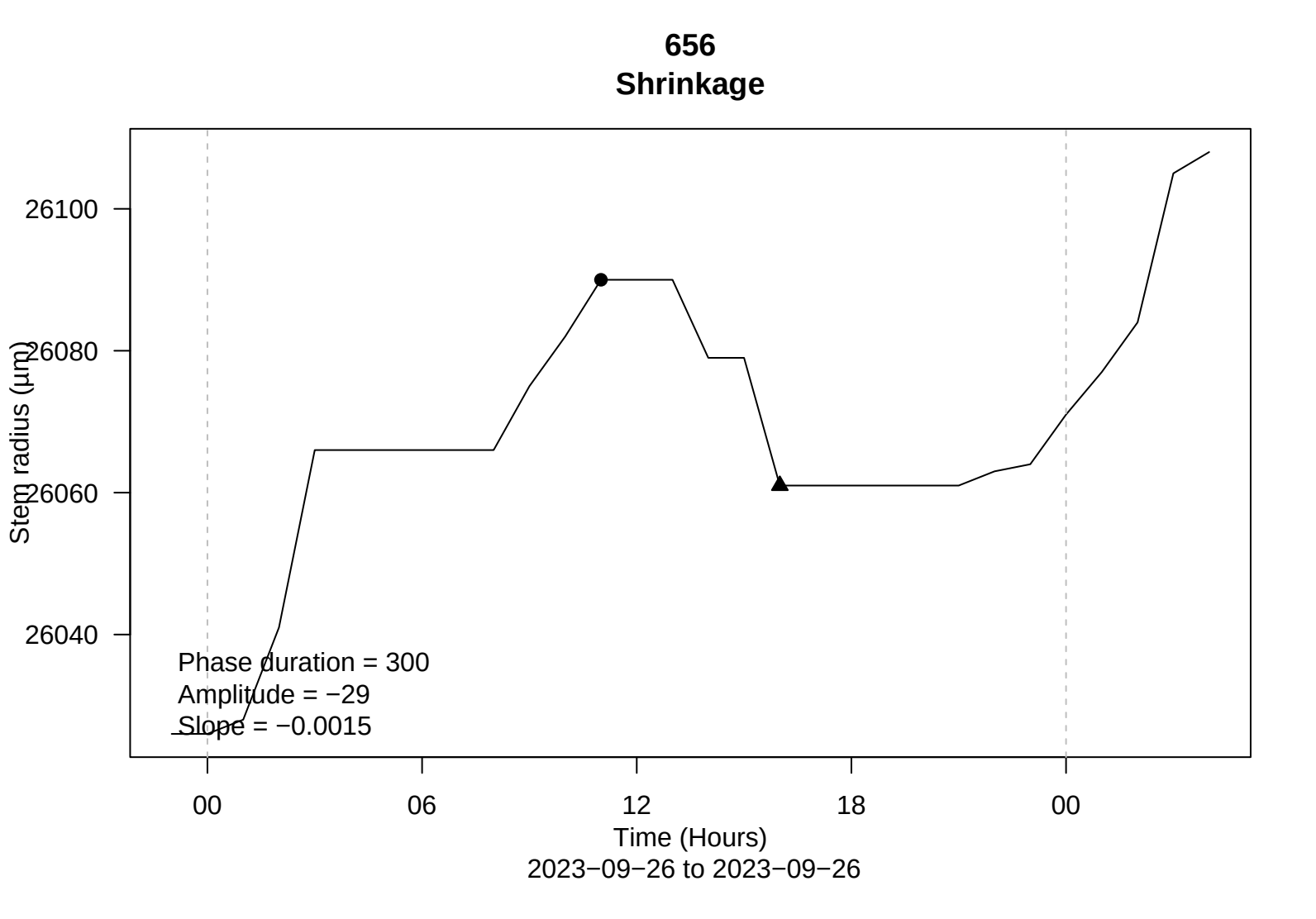

656
Expansion
25480
25460
25440
25420
25400
Stem radius (µm)
Phase duration = 1020
Amplitude = 51
Slope = 8e−04
12
00
12
Time (Hours)
2023−09−21 to 2023−09−22

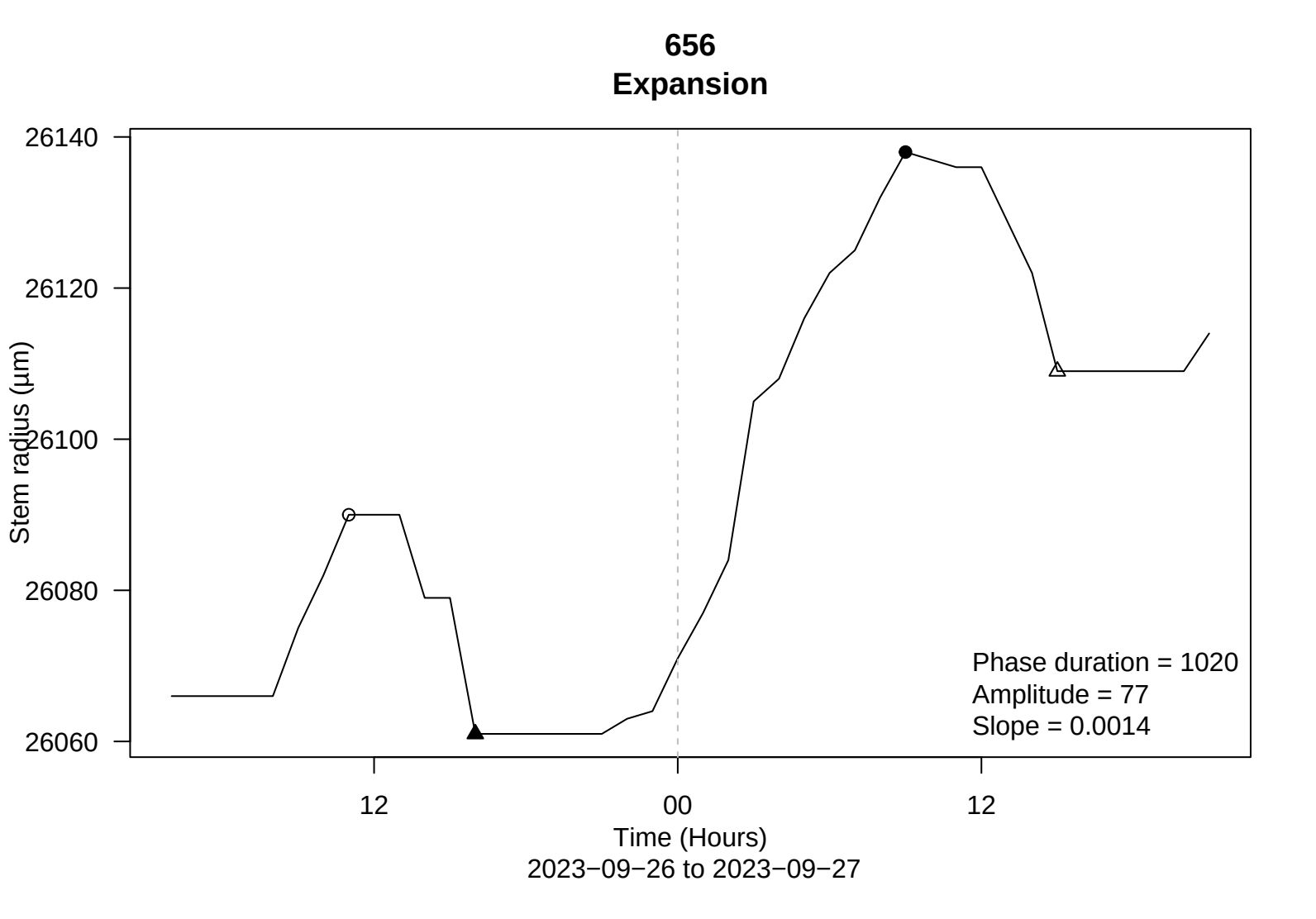

656
Shrinkage
25480
25460
25440
25420
25400
Stem radius (µm)
Phase duration = 420
Amplitude = −104
Slope = −0.0047
00
12
00
Time (Hours)
2023−09−22 to 2023−09−22

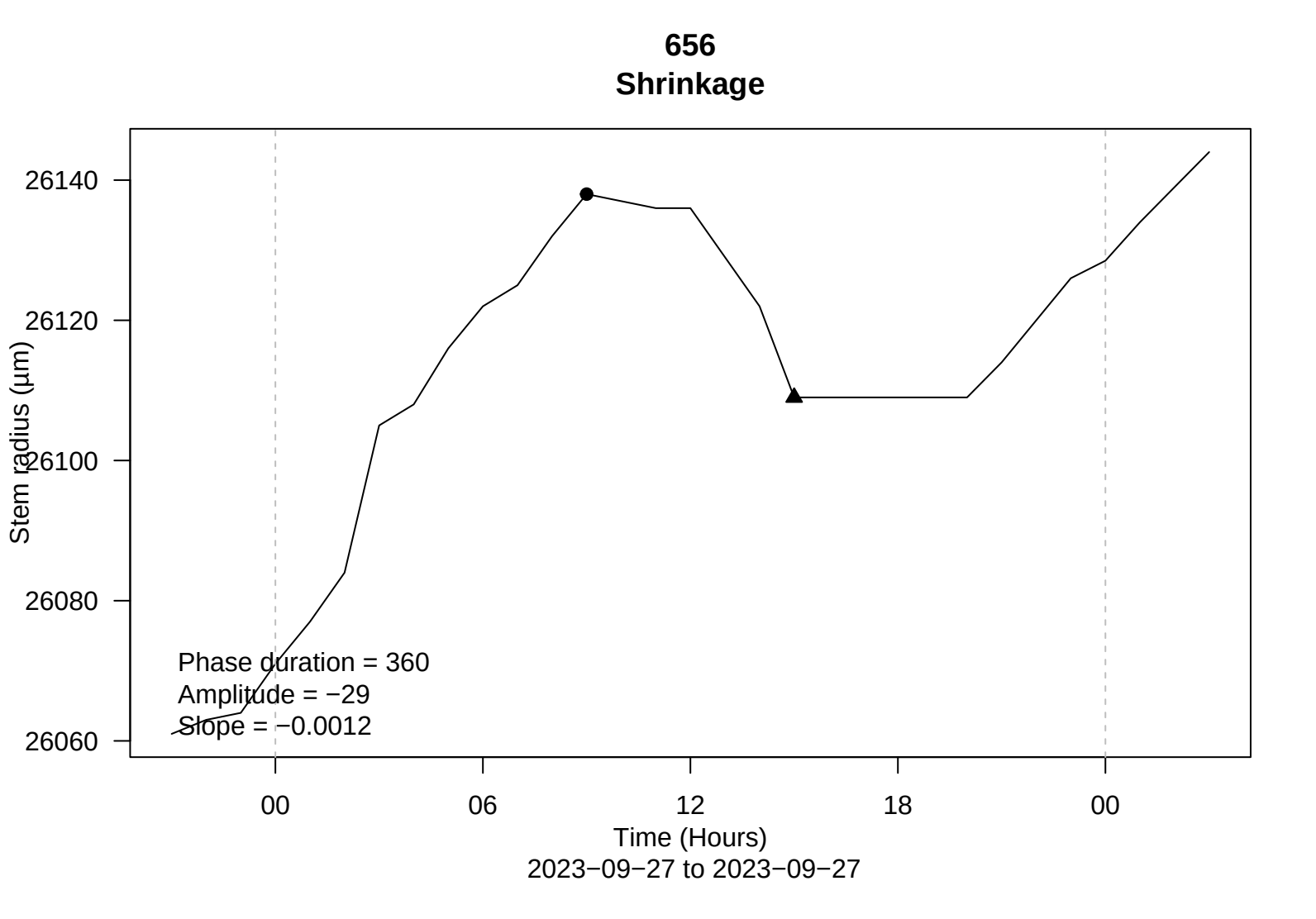

656
Expansion
25480
25460
25440
25420
25400
Stem radius (µm)
Phase duration = 960
Amplitude = 100
Slope = 0.002
12
00
12
Time (Hours)
2023−09−22 to 2023−09−23

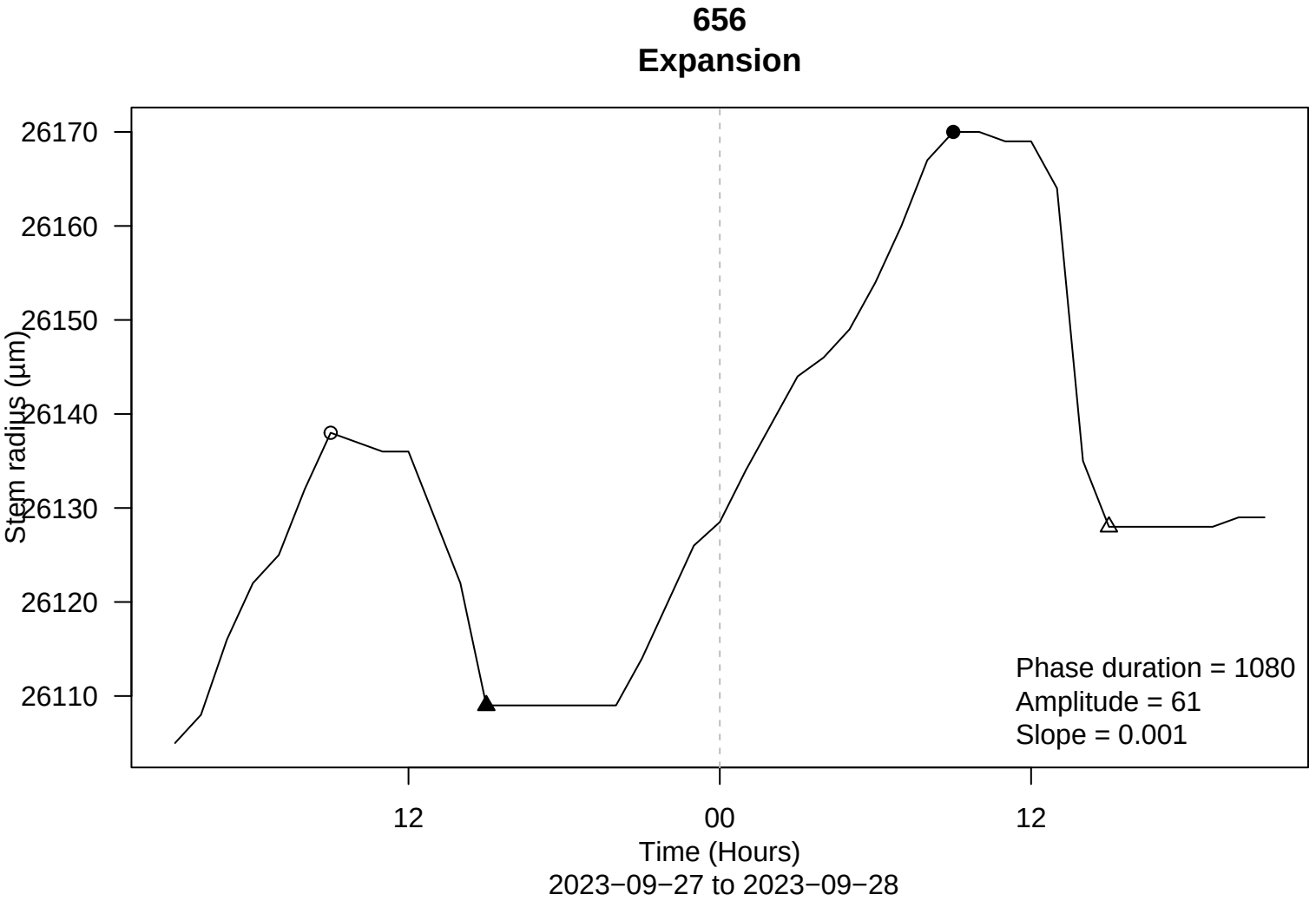

656
Shrinkage
25520
25500
25480
25460
25440
25420
25400
Stem radius (µm)
Phase duration = 420
Amplitude = −47
Slope = −0.002
00
06
12
18
00
Time (Hours)
2023−09−23 to 2023−09−23

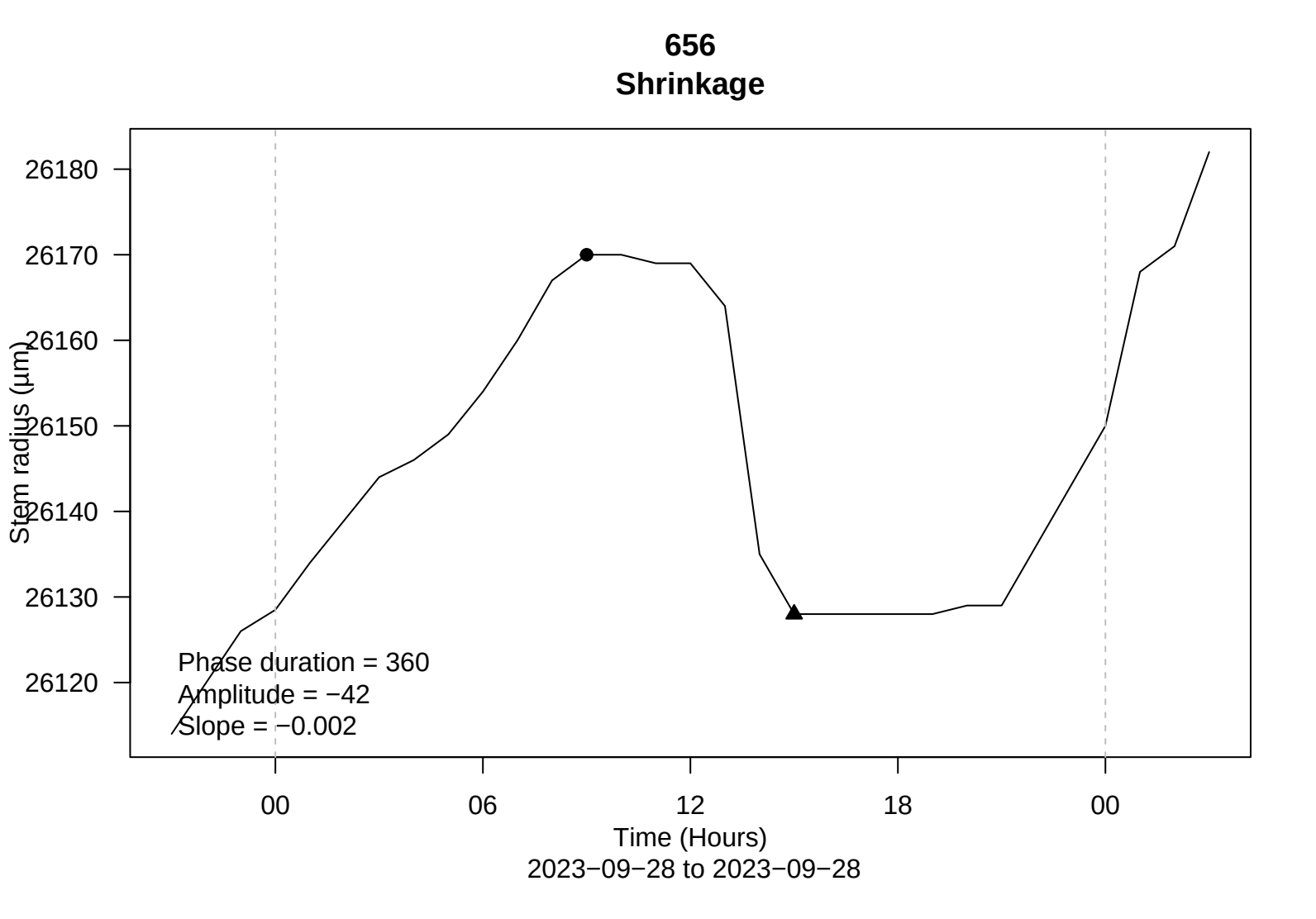

656
Expansion
26100
26000
25900
25800
25700
25600
25500
Stem radius (µm)
Phase duration = 4020
Amplitude = 650
Slope = 0.0031
00
00
00
00
Time (Hours)
2023−09−23 to 2023−09−26

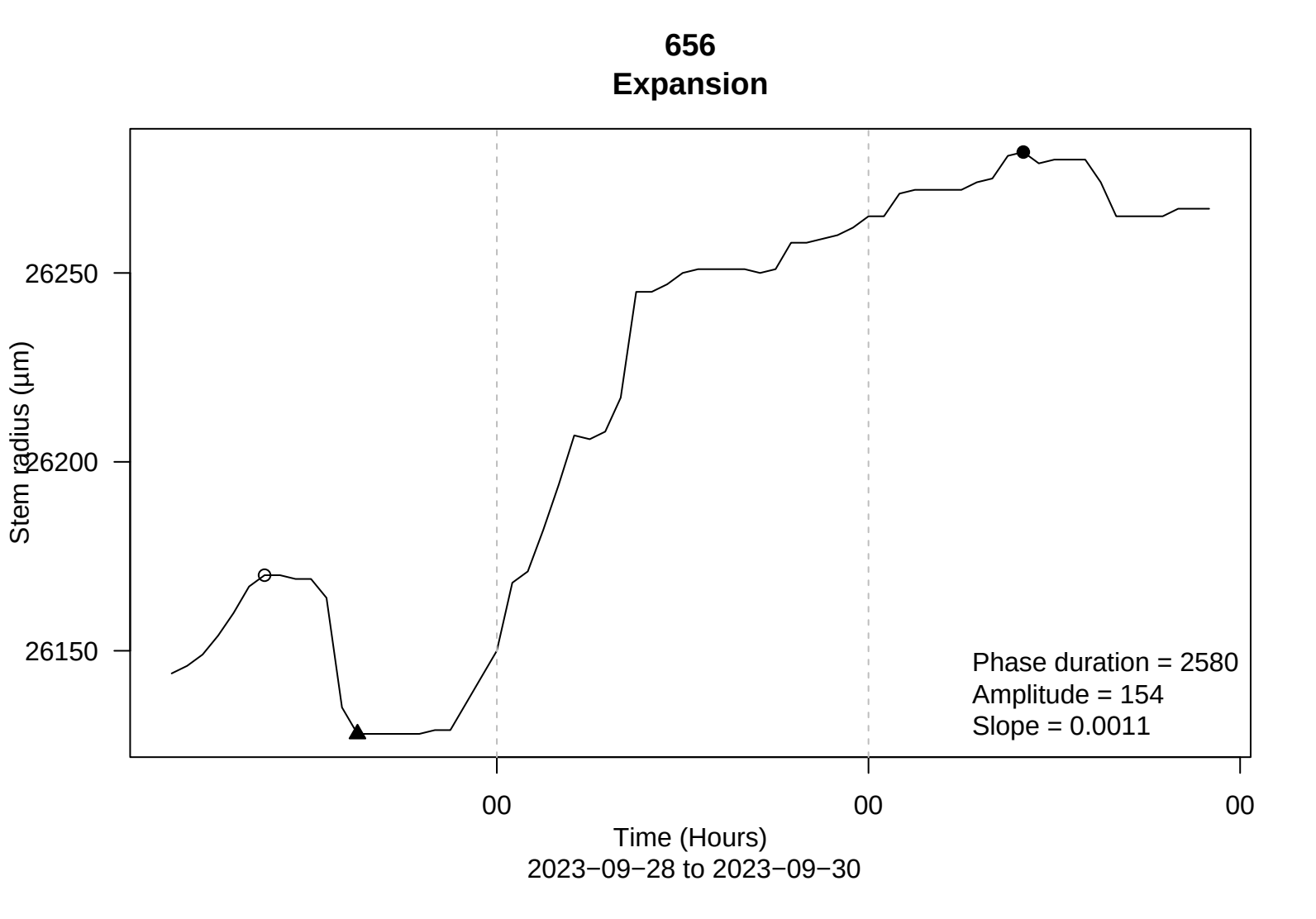

656
Shrinkage
26100
26080
26060
26040
Stem radius (µm)
Phase duration = 300
Amplitude = −29
Slope = −0.0015
00
06
12
18
00
Time (Hours)
2023−09−26 to 2023−09−26


656
Expansion
26140
26120
26100
26080
26060
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−26 to 2023−09−27
Phase duration = 1020
Amplitude = 77
Slope = 0.0014


656
Shrinkage
26140
26120
26100
26080
26060
Stem radius (µm)
Phase duration = 360
Amplitude = −29
Slope = −0.0012
00
06
12
18
00
Time (Hours)
2023−09−27 to 2023−09−27


656
Expansion
26170
26160
26150
26140
26130
26120
26110
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−27 to 2023−09−28
Phase duration = 1080
Amplitude = 61
Slope = 0.001


656
Shrinkage
26180
26170
26160
26150
26140
26130
26120
Stem radius (µm)
Phase duration = 360
Amplitude = −42
Slope = −0.002
00
06
12
18
00
Time (Hours)
2023−09−28 to 2023−09−28


656
Expansion
26250
26200
26150
Stem radius (µm)
00
00
00
Time (Hours)
2023−09−28 to 2023−09−30
Phase duration = 2580
Amplitude = 154
Slope = 0.0011