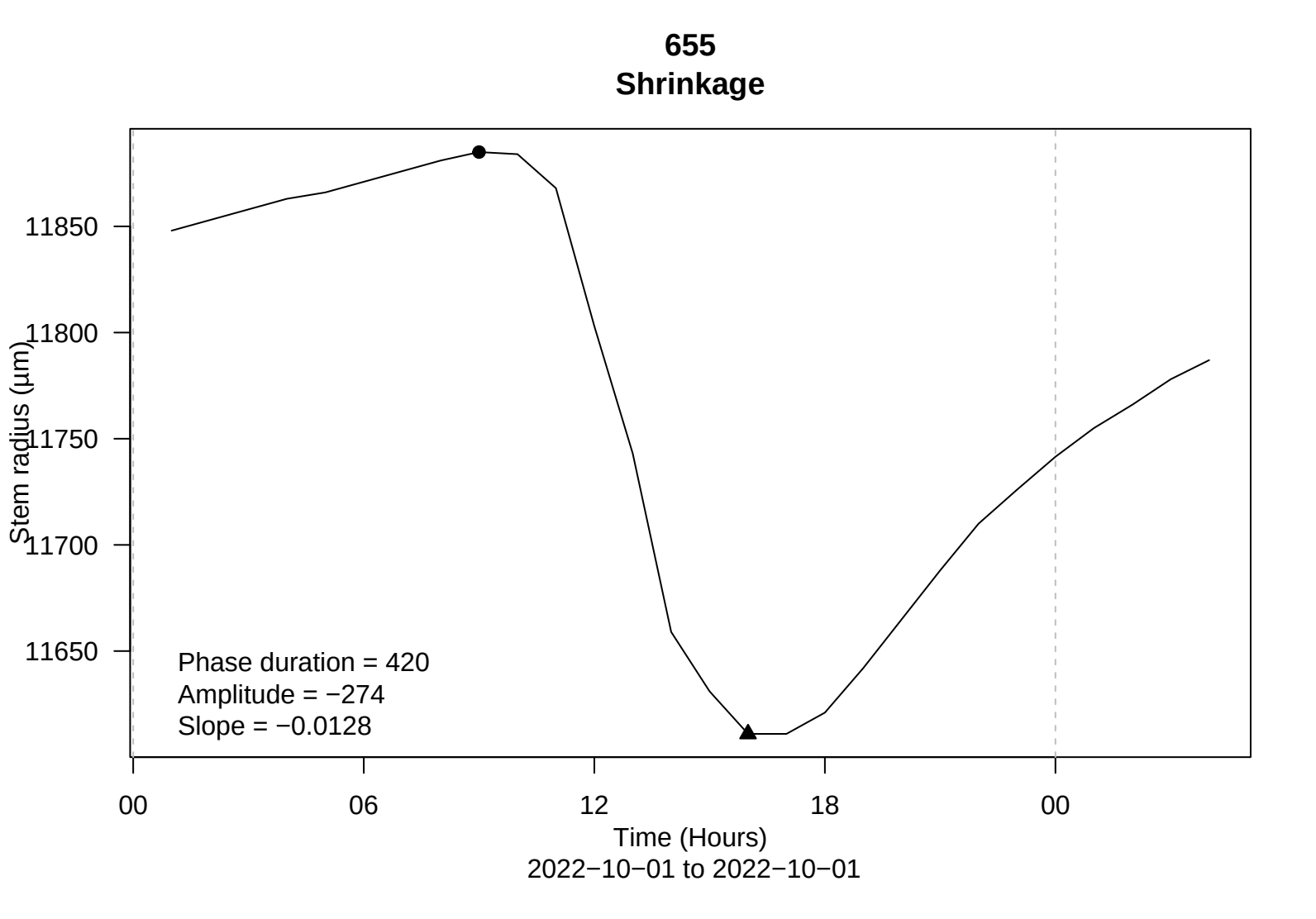
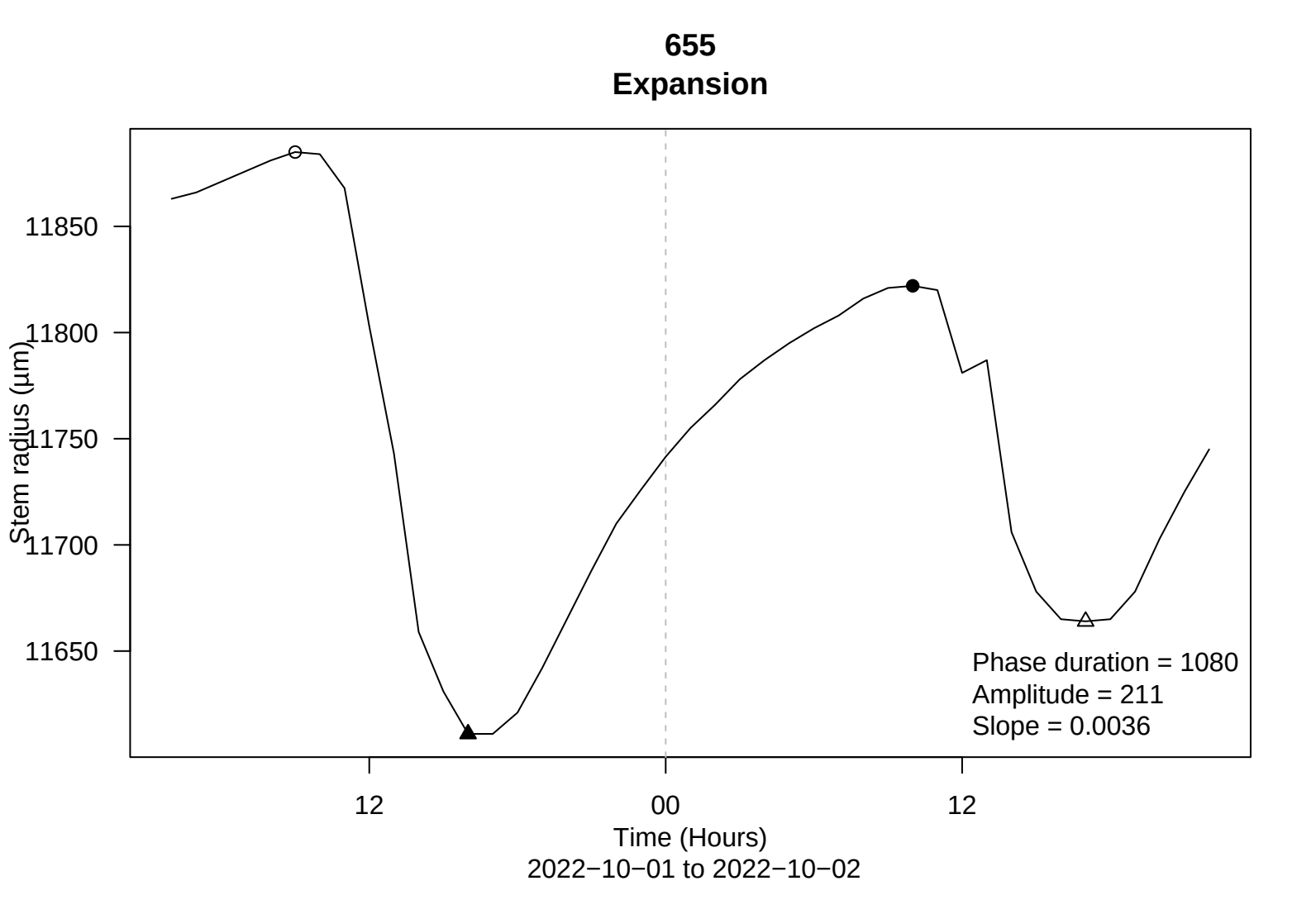
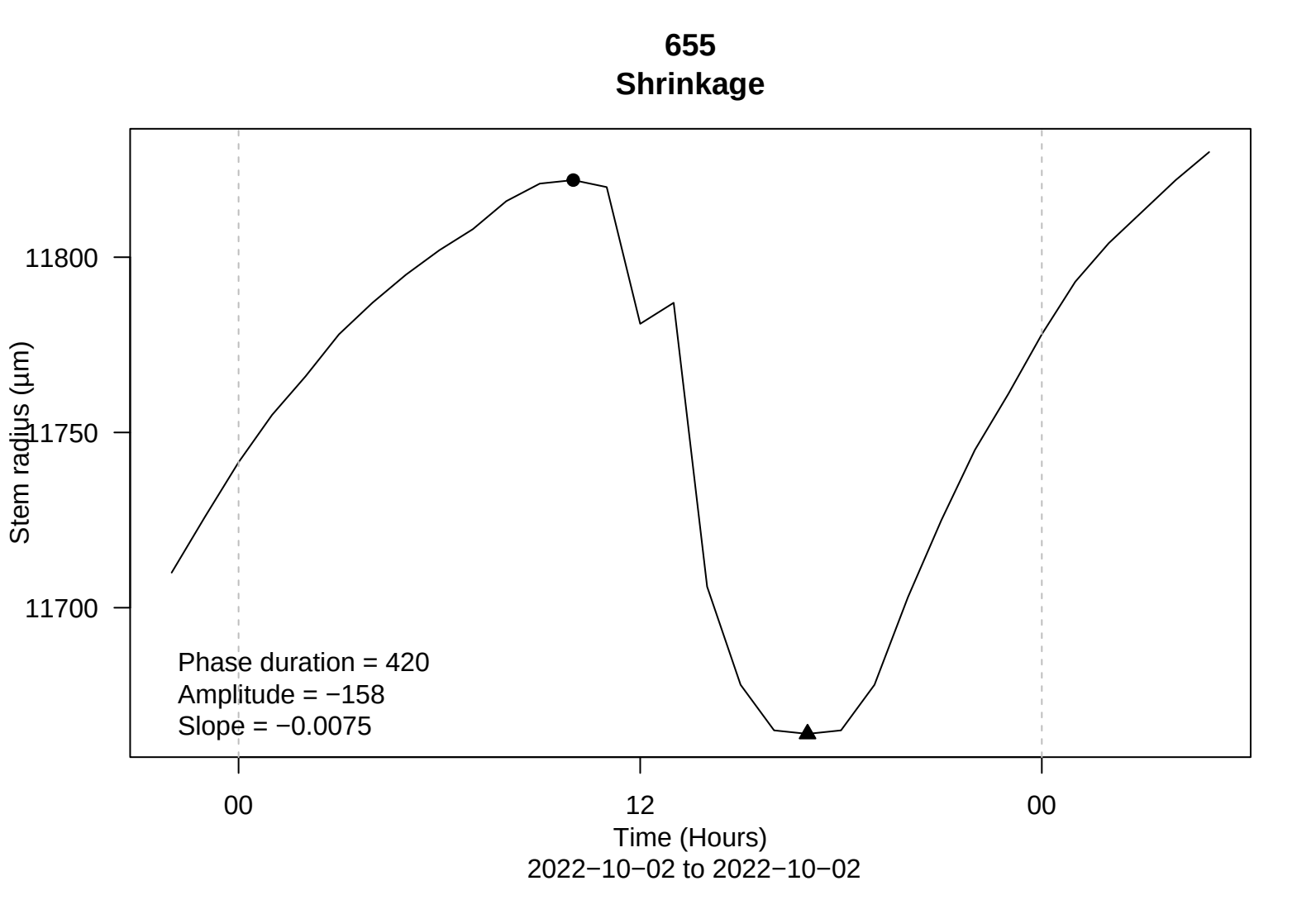
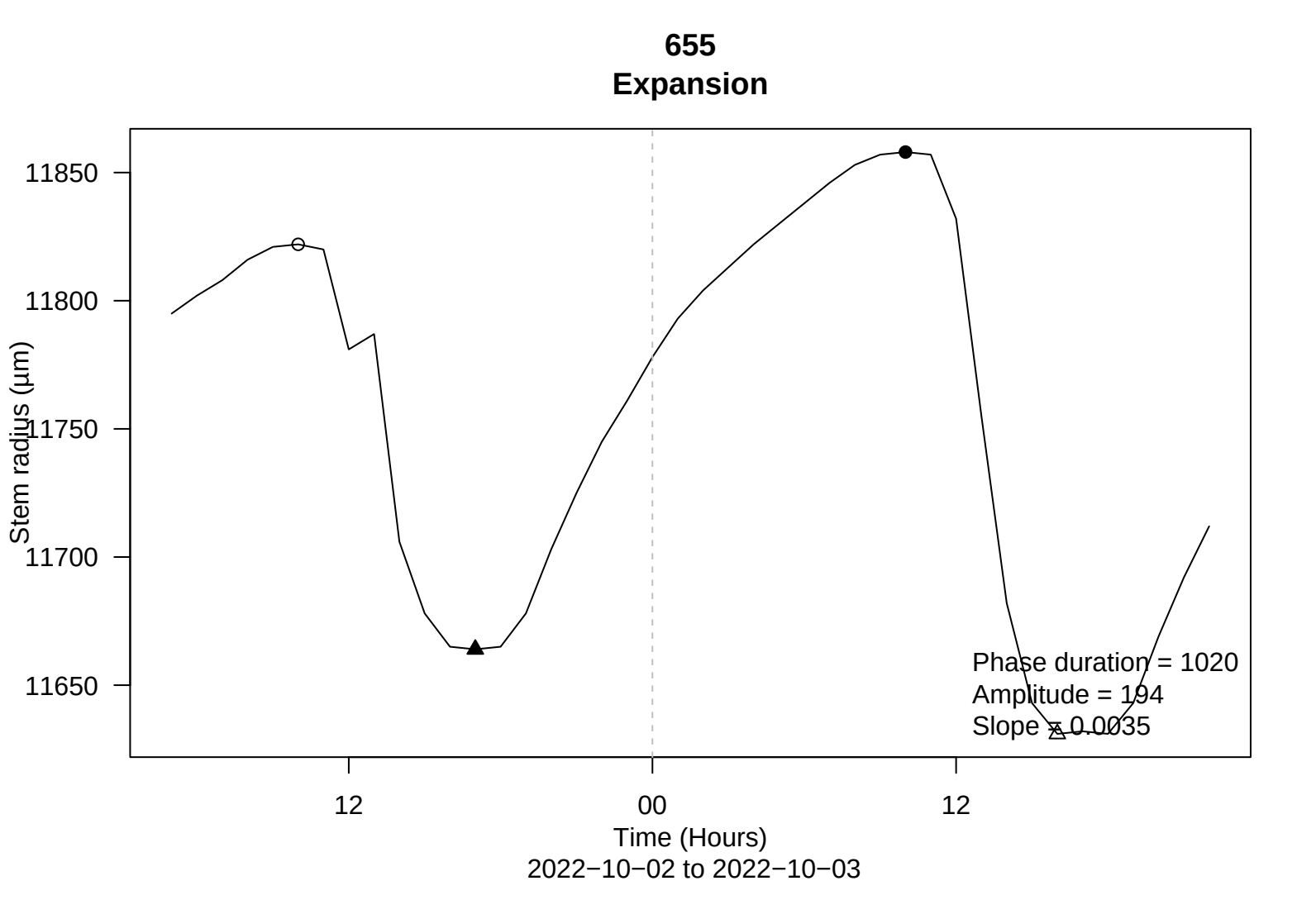
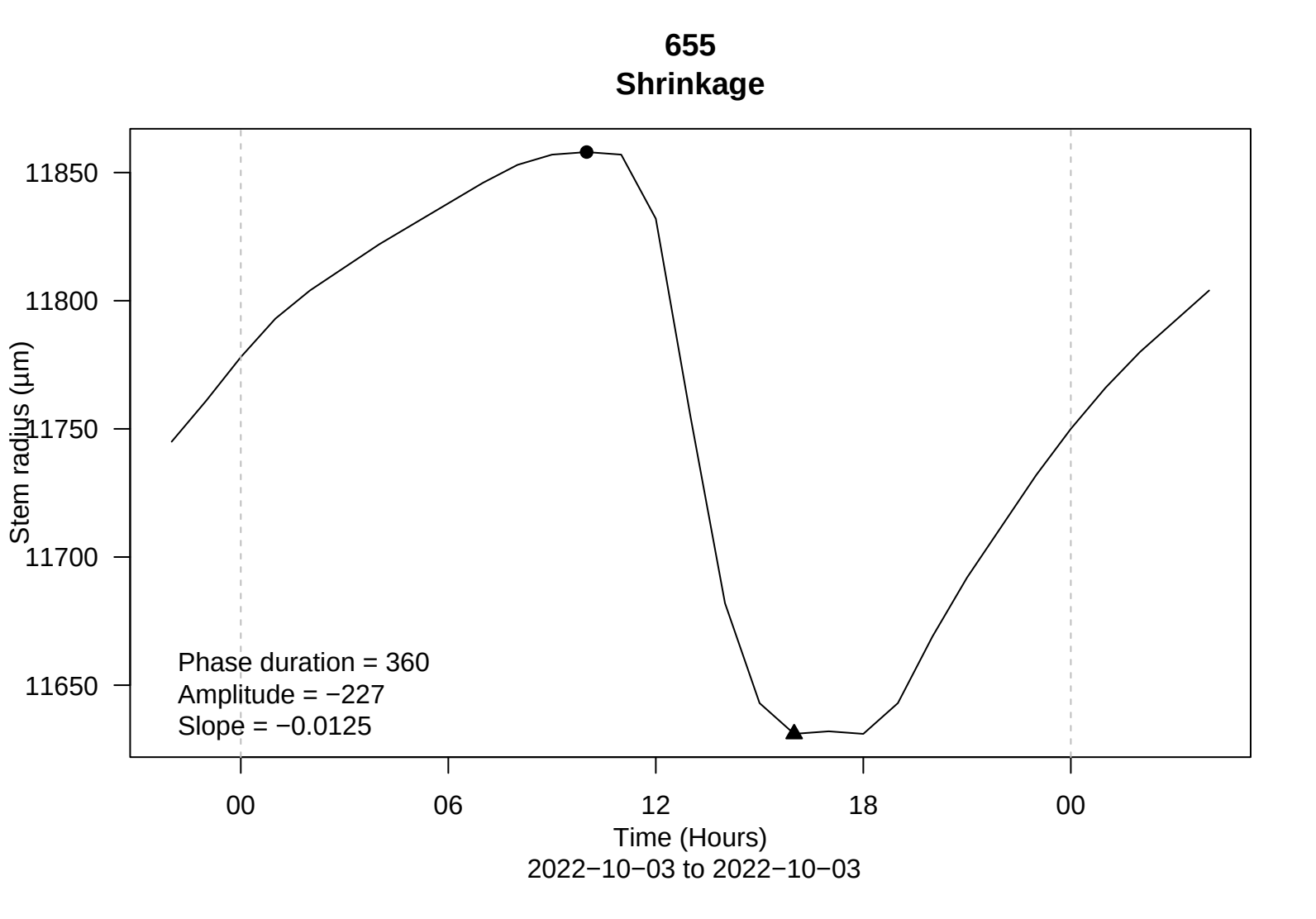
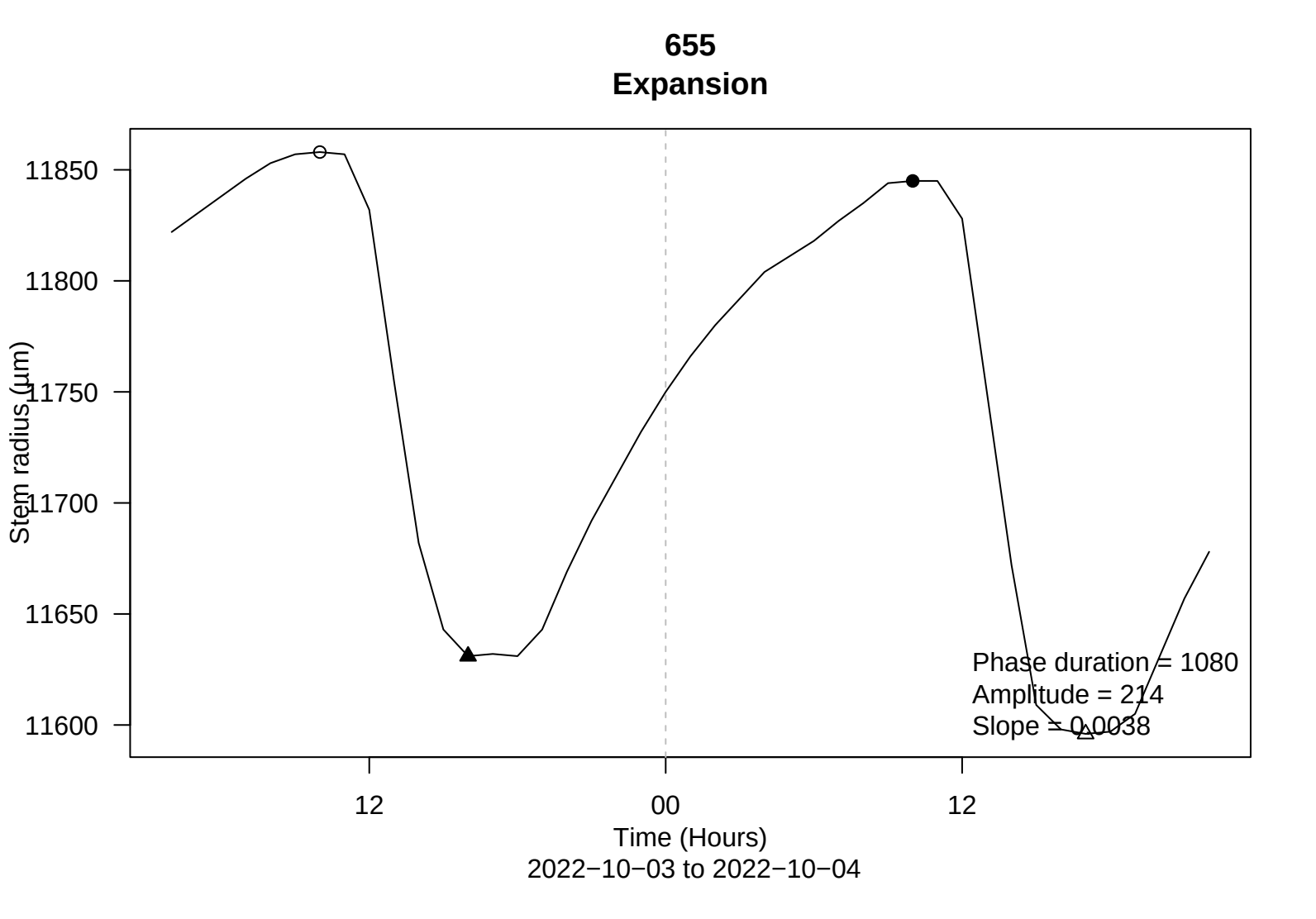

655
Shrinkage
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 420
Amplitude = −274
Slope = −0.0128
00
06
12
18
00
Time (Hours)
2022−10−01 to 2022−10−01

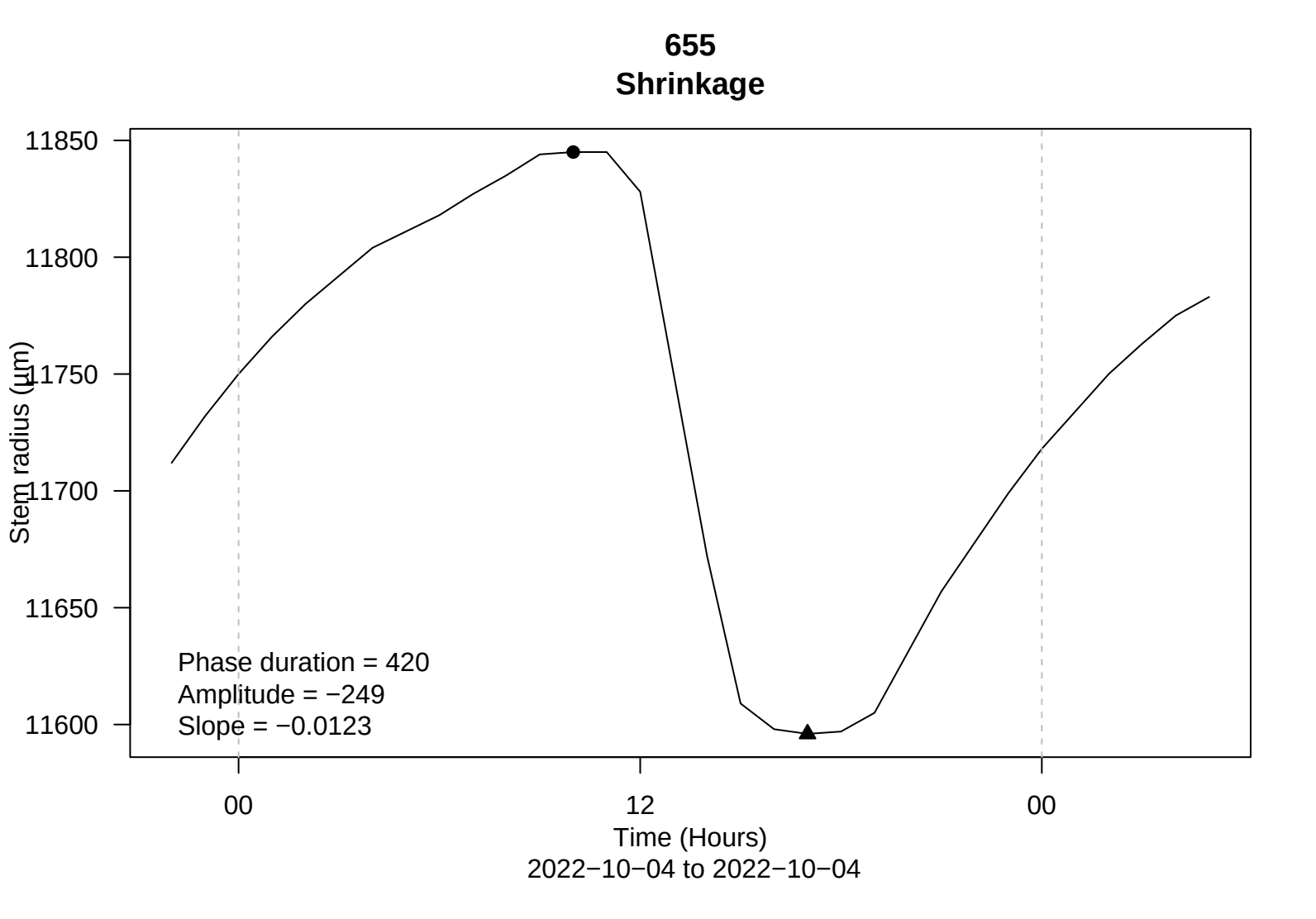

655
Expansion
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 1080
Amplitude = 211
Slope = 0.0036
12
00
12
Time (Hours)
2022−10−01 to 2022−10−02

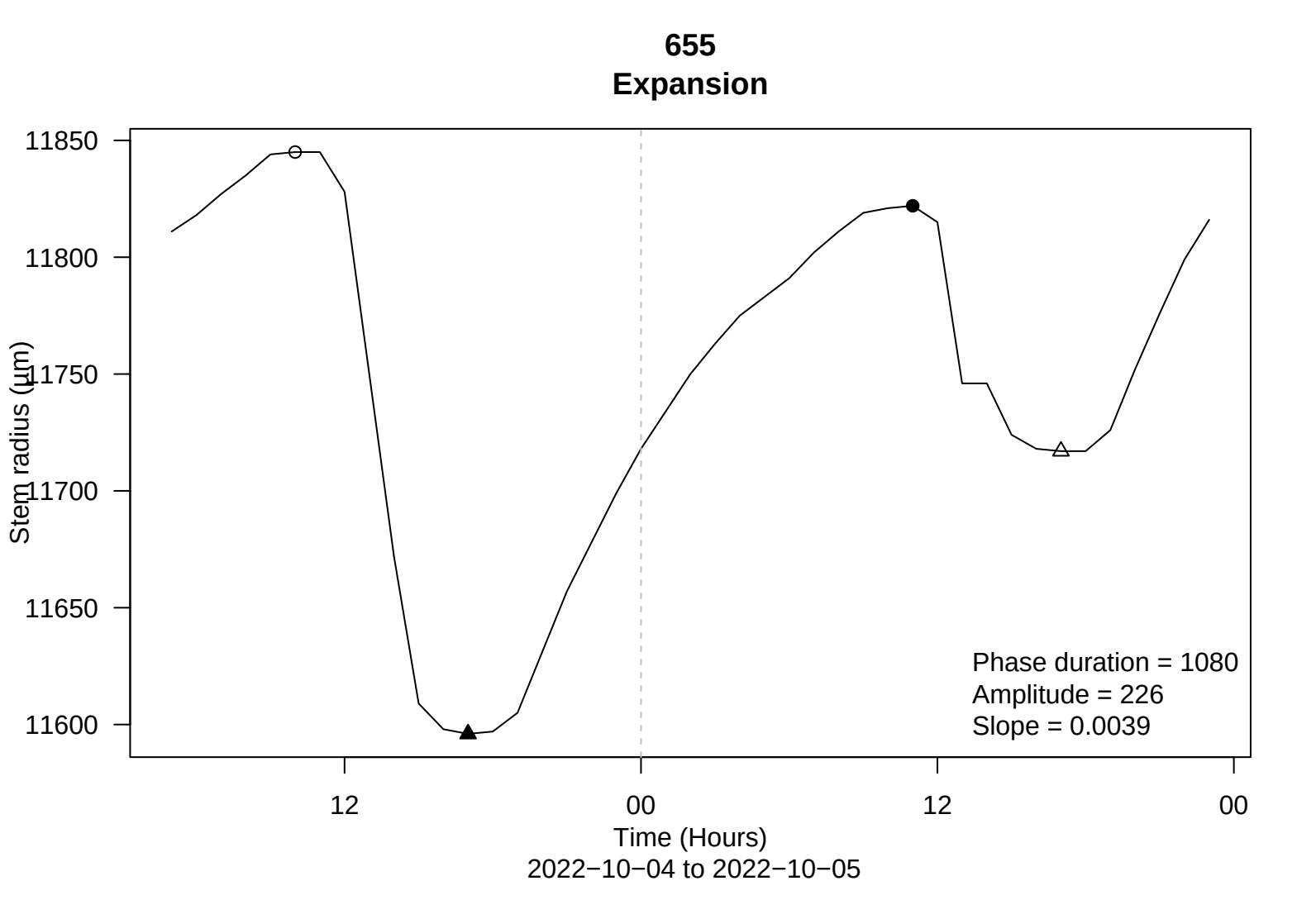

655
Shrinkage
11800
11750
11700
Stem radius (µm)
Phase duration = 420
Amplitude = −158
Slope = −0.0075
00
12
00
Time (Hours)
2022−10−02 to 2022−10−02

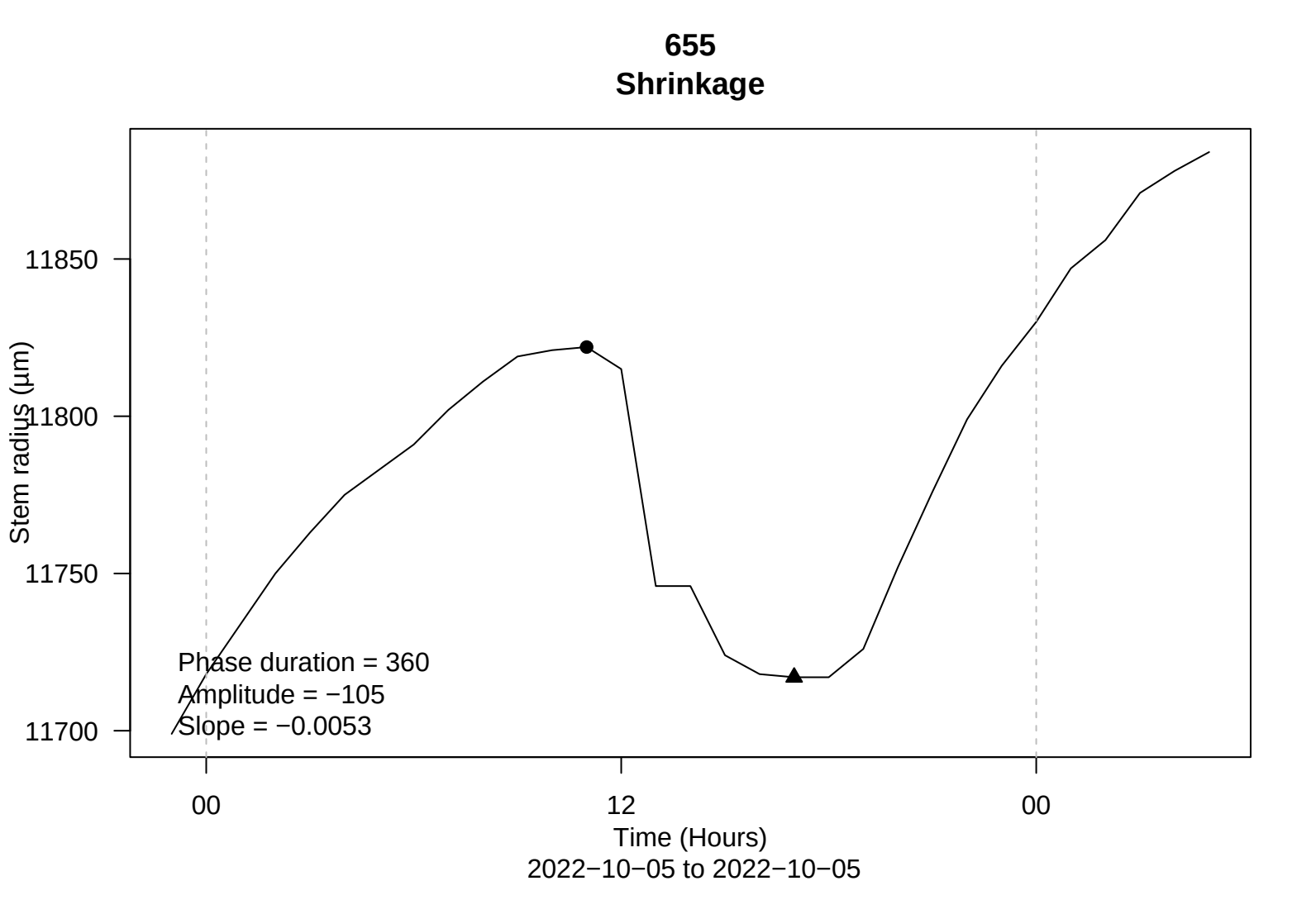

655
Expansion
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 1020
Amplitude = 194
Slope = 0.0035
12
00
12
Time (Hours)
2022−10−02 to 2022−10−03

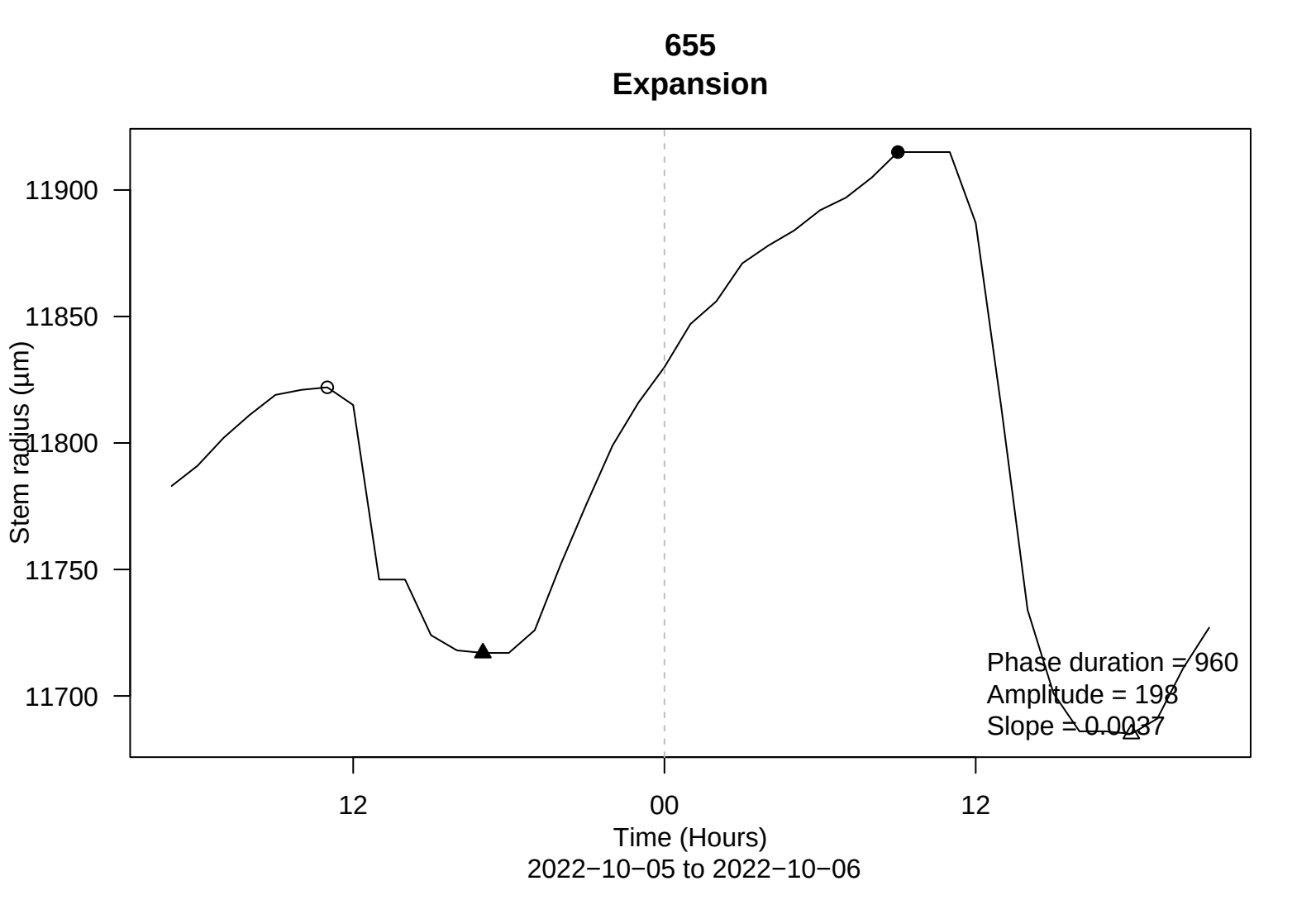

655
Shrinkage
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 360
Amplitude = −227
Slope = −0.0125
00
06
12
18
00
Time (Hours)
2022−10−03 to 2022−10−03

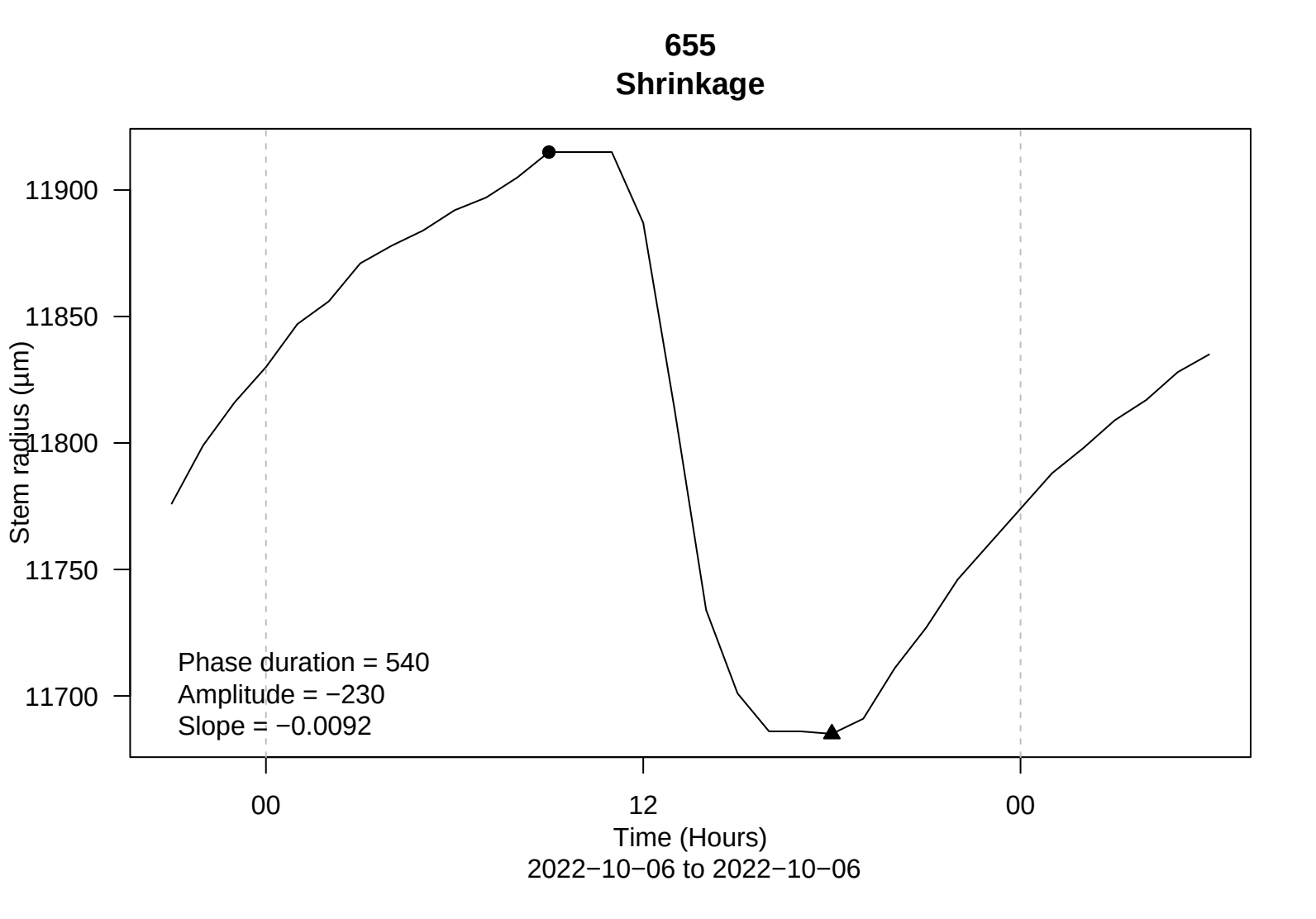

655
Expansion
11850
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 1080
Amplitude = 214
Slope = 0.0038
12
00
12
Time (Hours)
2022−10−03 to 2022−10−04

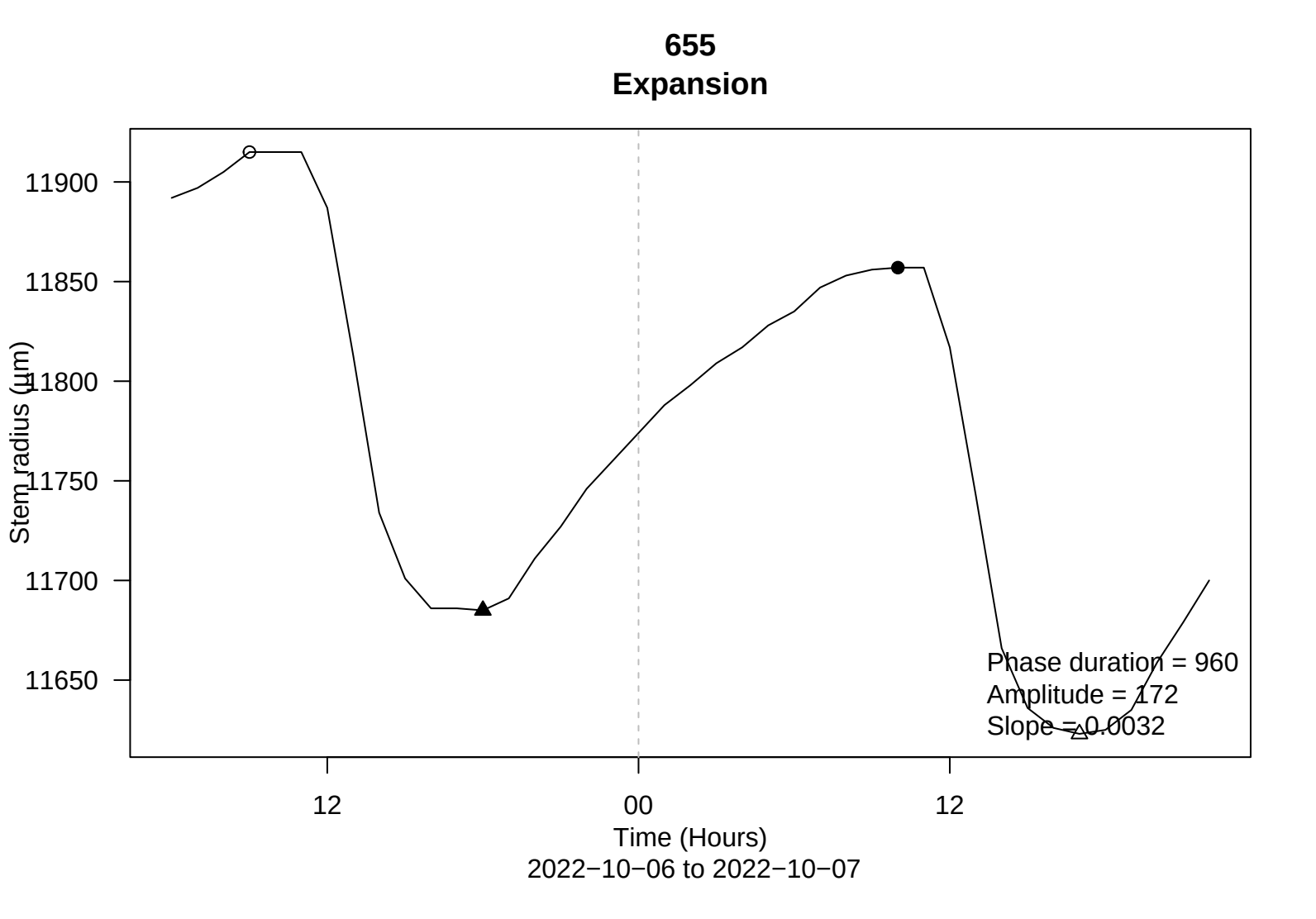

655
Shrinkage
11850
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 420
Amplitude = −249
Slope = −0.0123
00
12
00
Time (Hours)
2022−10−04 to 2022−10−04

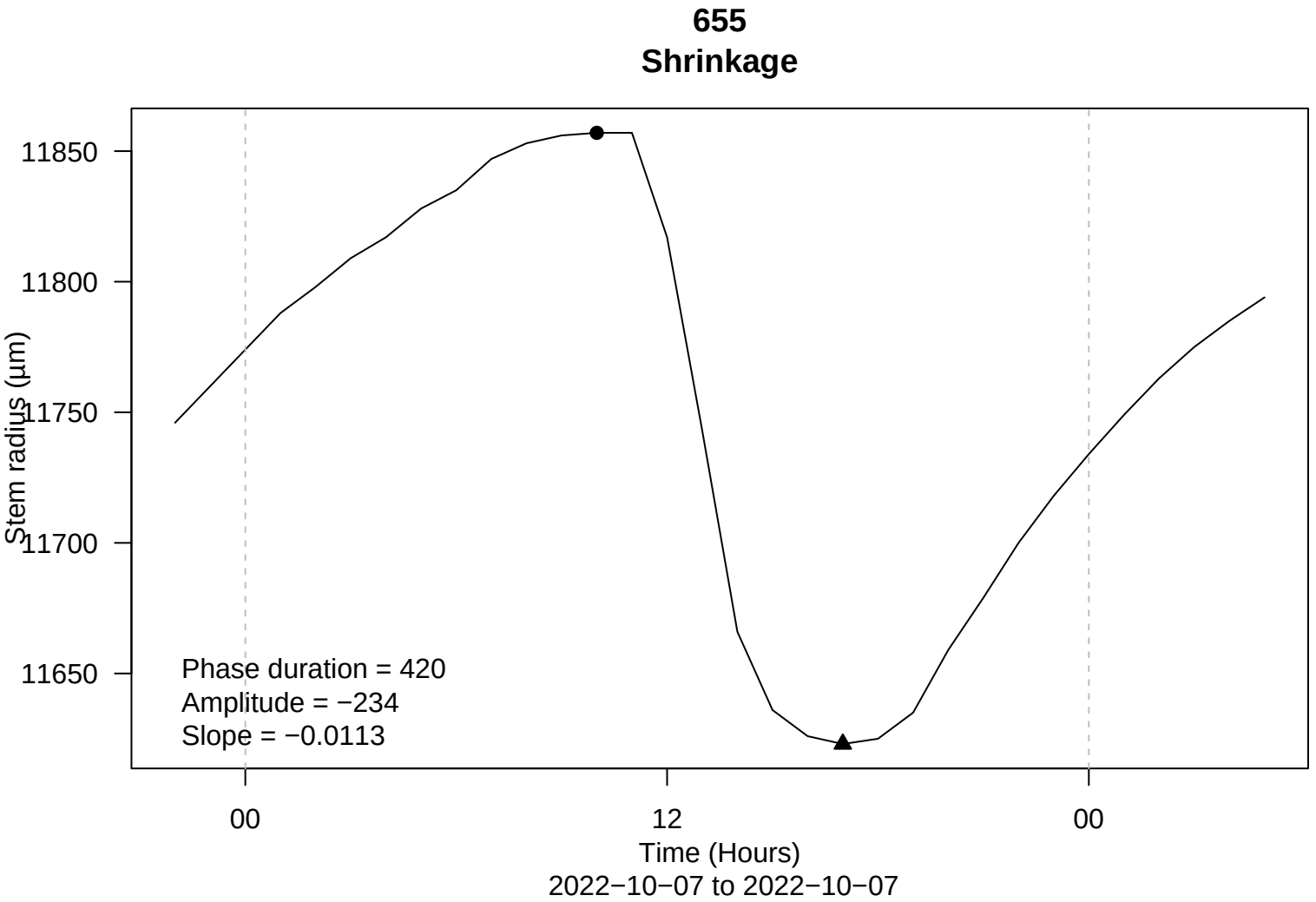

655
Expansion
11850
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 1080
Amplitude = 226
Slope = 0.0039
12
00
12
00
Time (Hours)
2022−10−04 to 2022−10−05

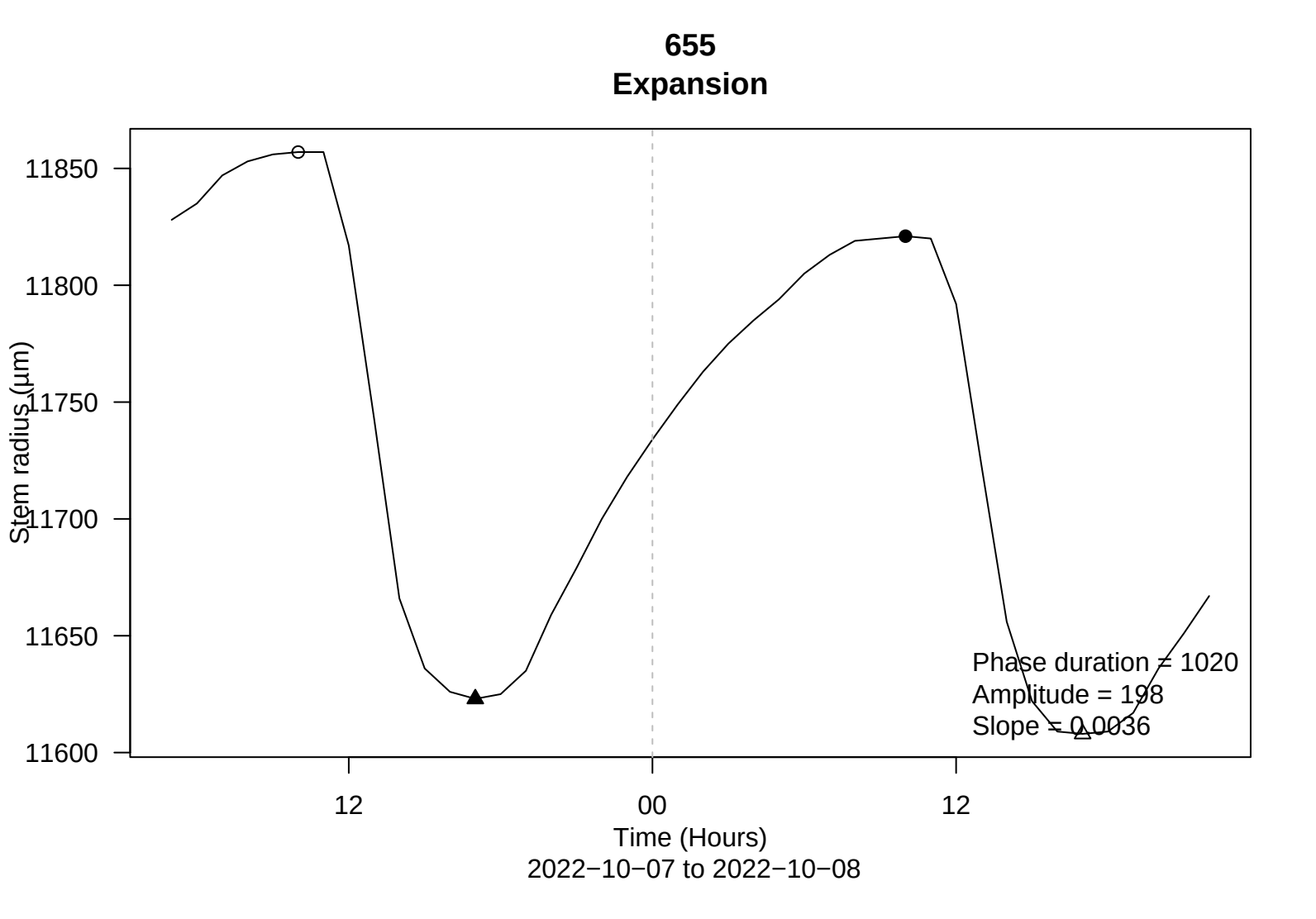

655
Shrinkage
11850
11800
11750
11700
Stem radius (µm)
Phase duration = 360
Amplitude = −105
Slope = −0.0053
00
12
00
Time (Hours)
2022−10−05 to 2022−10−05

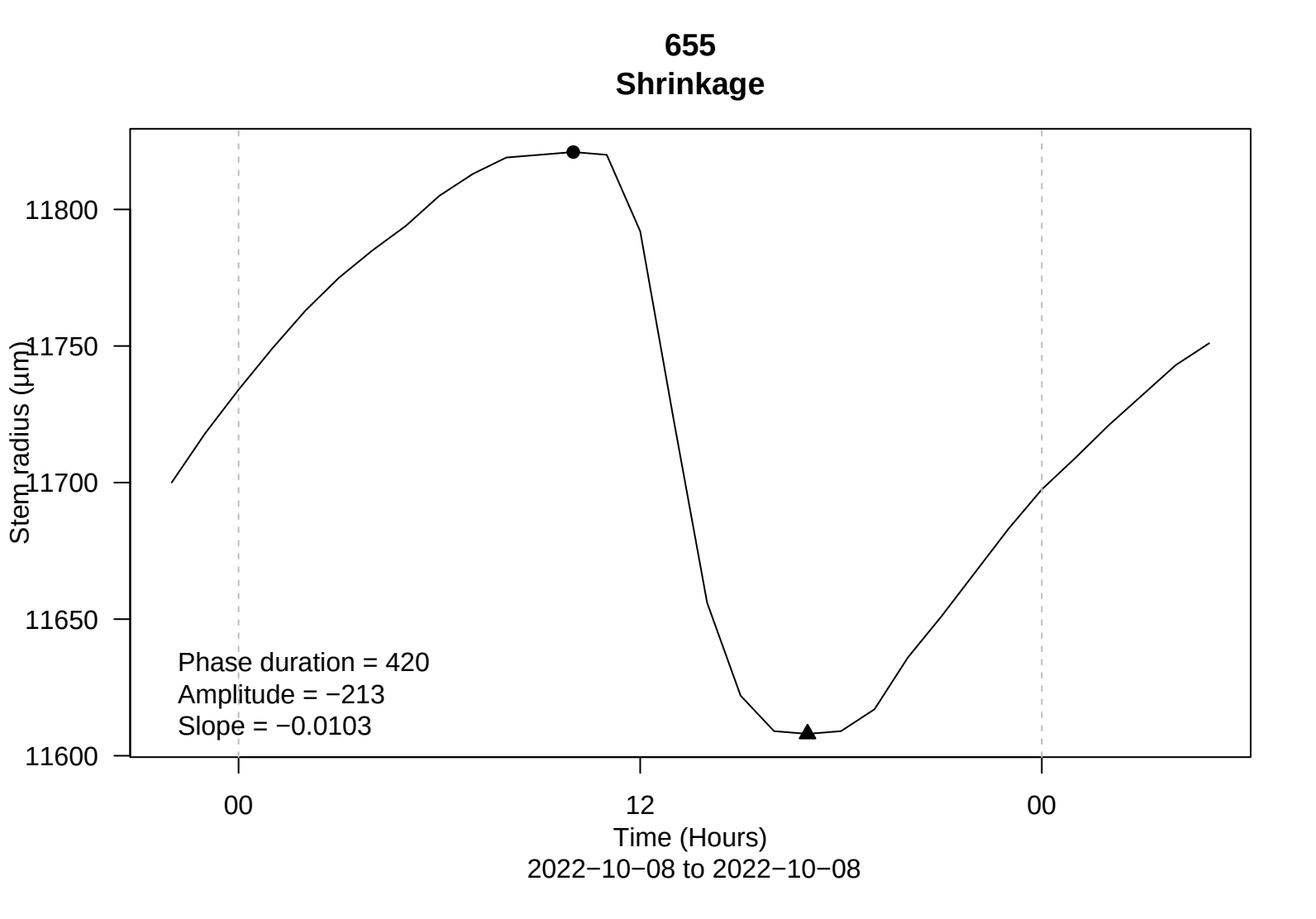

655
Expansion
11900
11850
11800
11750
11700
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−05 to 2022−10−06
Phase duration = 960
Amplitude = 198
Slope = 0.0037

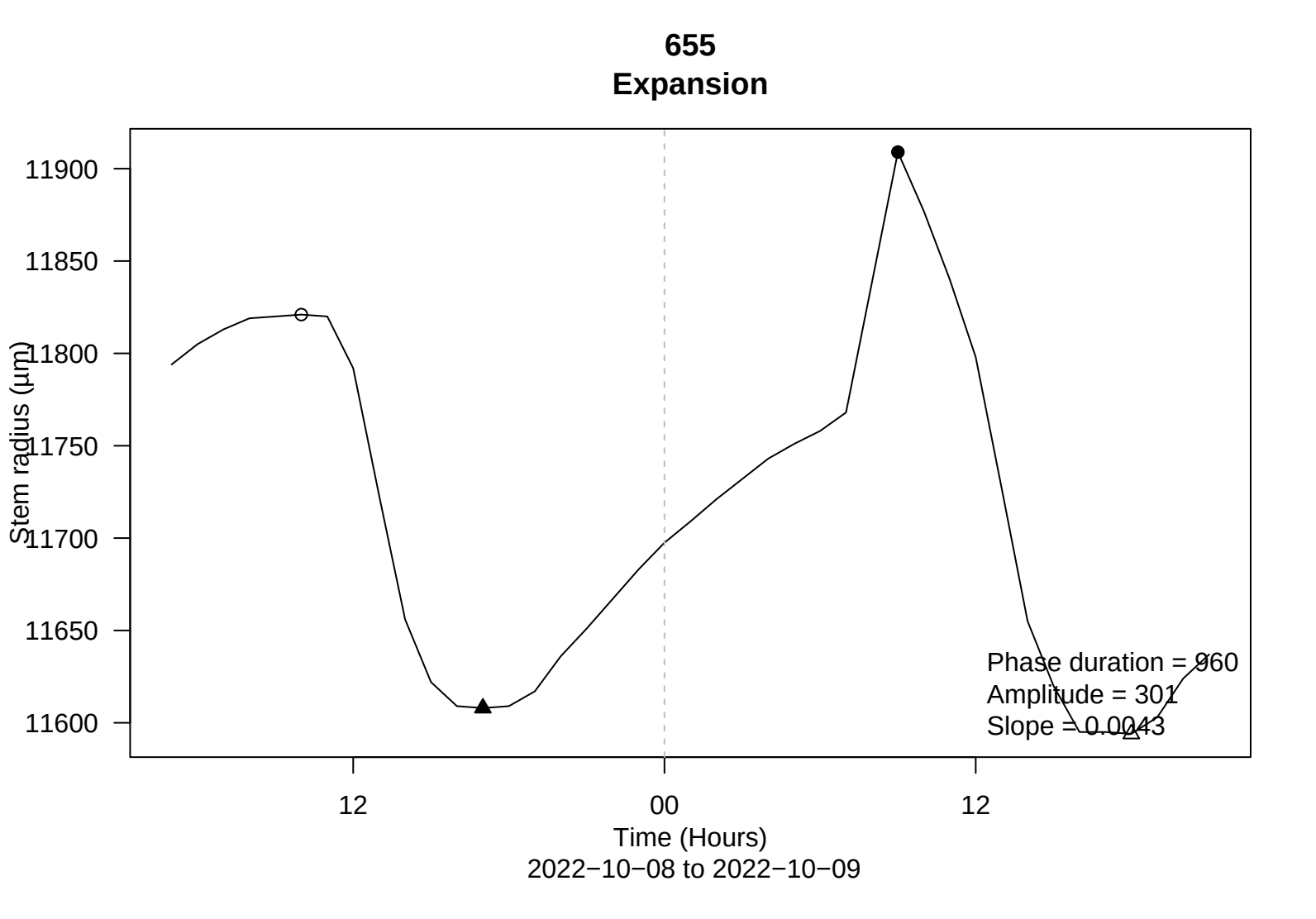

655
Shrinkage
11900
11850
11800
11750
11700
Stem radius (µm)
Phase duration = 540
Amplitude = −230
Slope = −0.0092
00
12
00
Time (Hours)
2022−10−06 to 2022−10−06

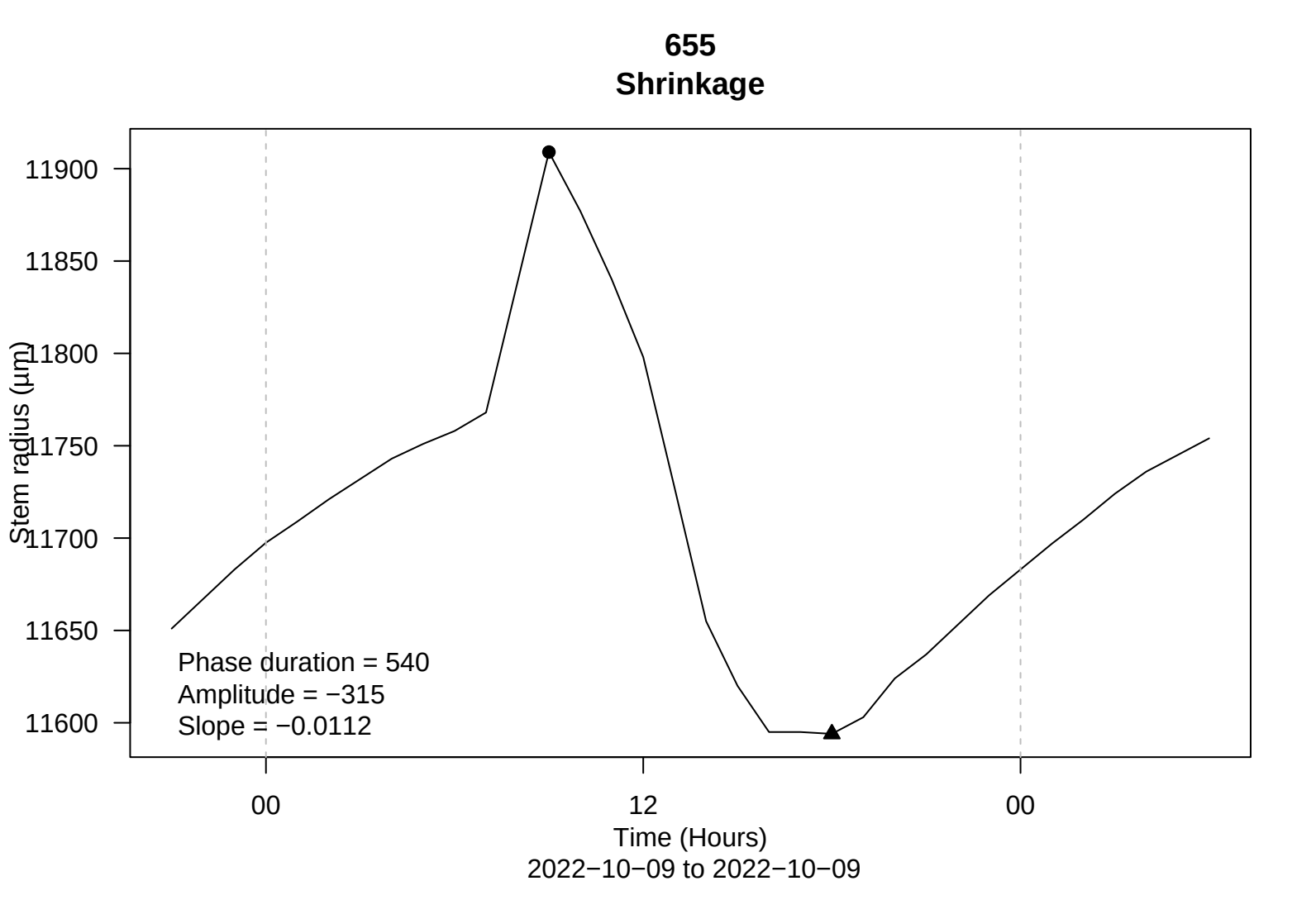

655
Expansion
11900
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 960
Amplitude = 172
Slope = 0.0032
12
00
12
Time (Hours)
2022−10−06 to 2022−10−07

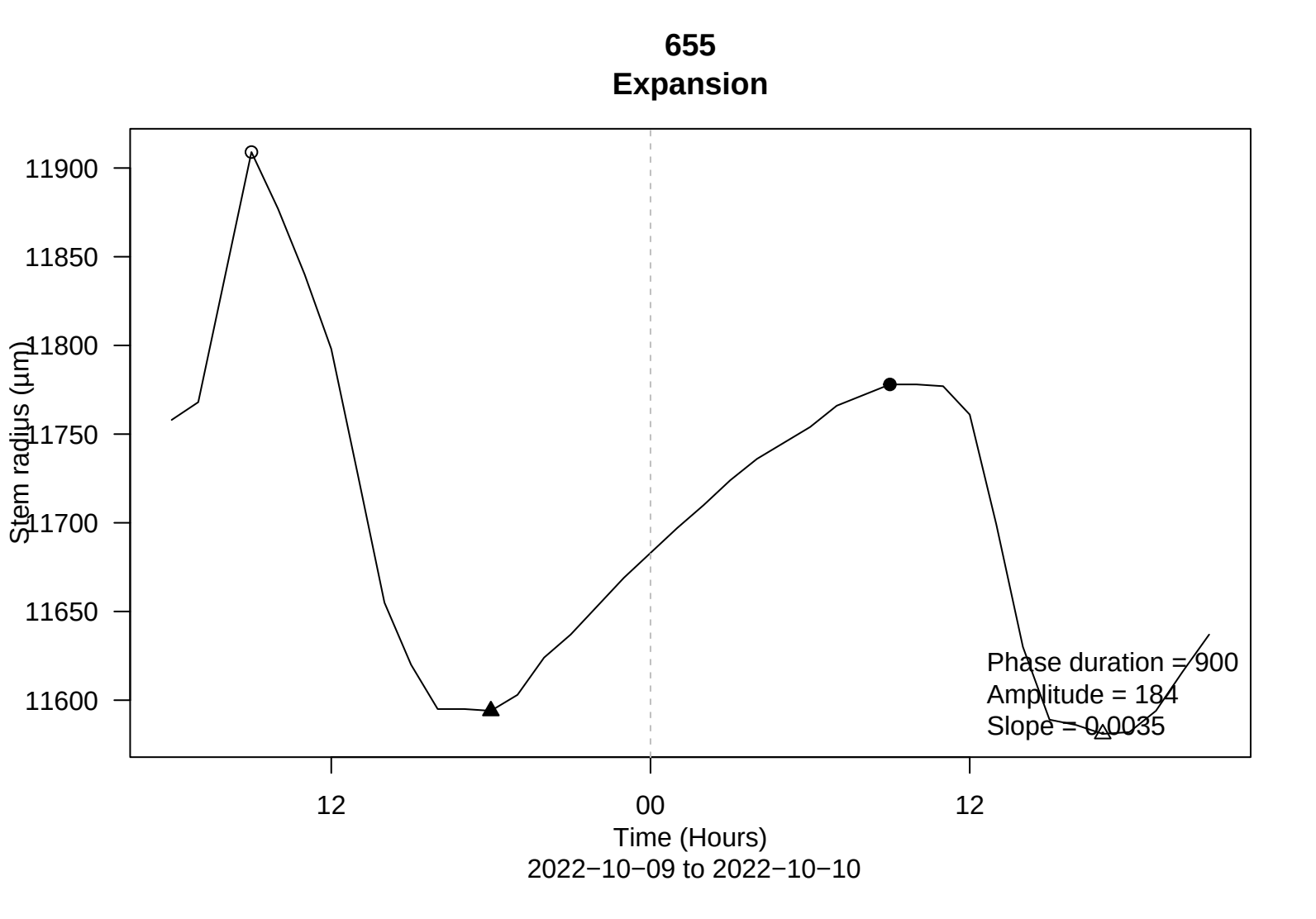

655
Shrinkage
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 420
Amplitude = −234
Slope = −0.0113
00
12
00
Time (Hours)
2022−10−07 to 2022−10−07

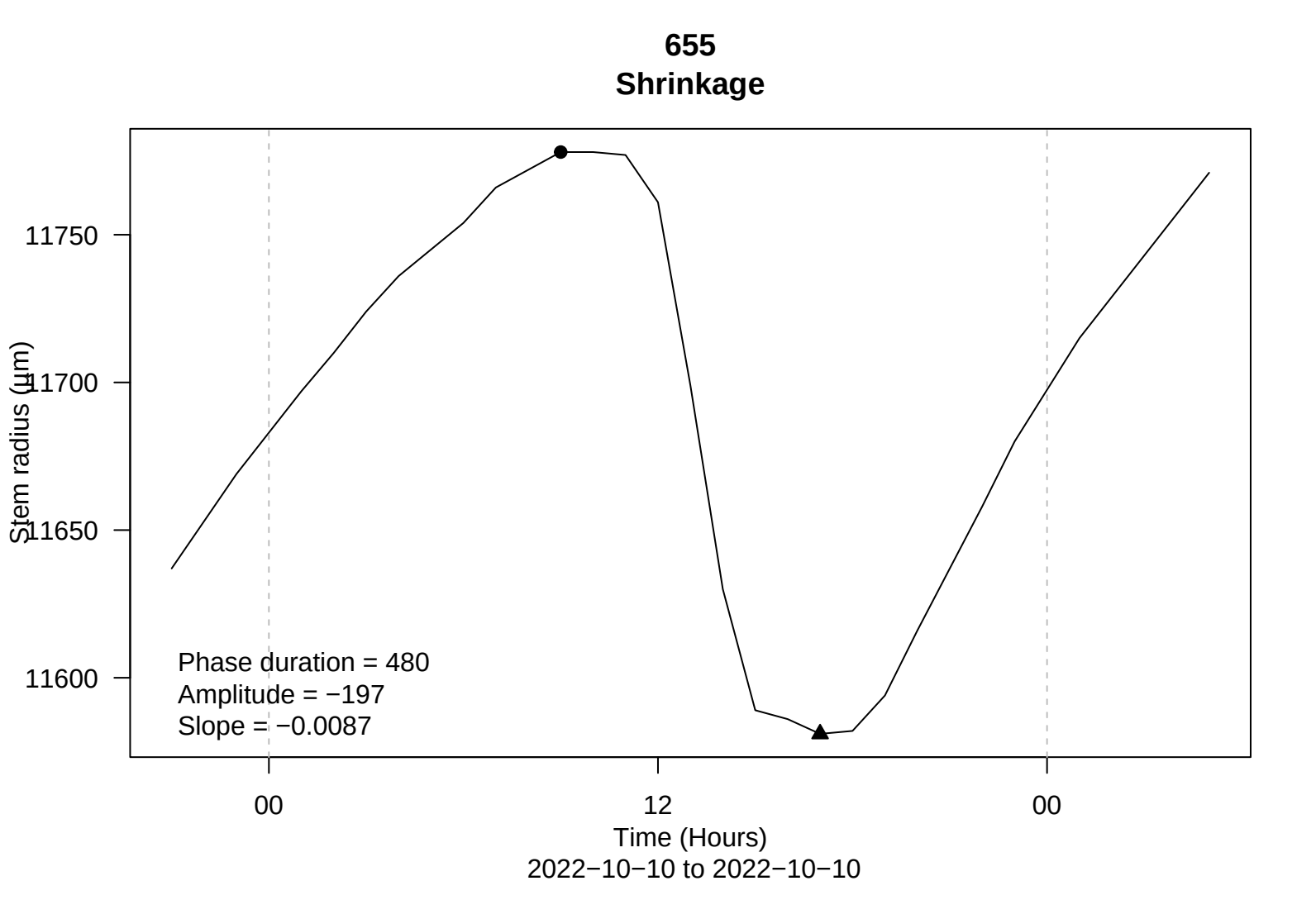

655
Expansion
11850
11800
11750
11700
11650
11600
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−07 to 2022−10−08
Phase duration = 1020
Amplitude = 198
Slope = 0.0036

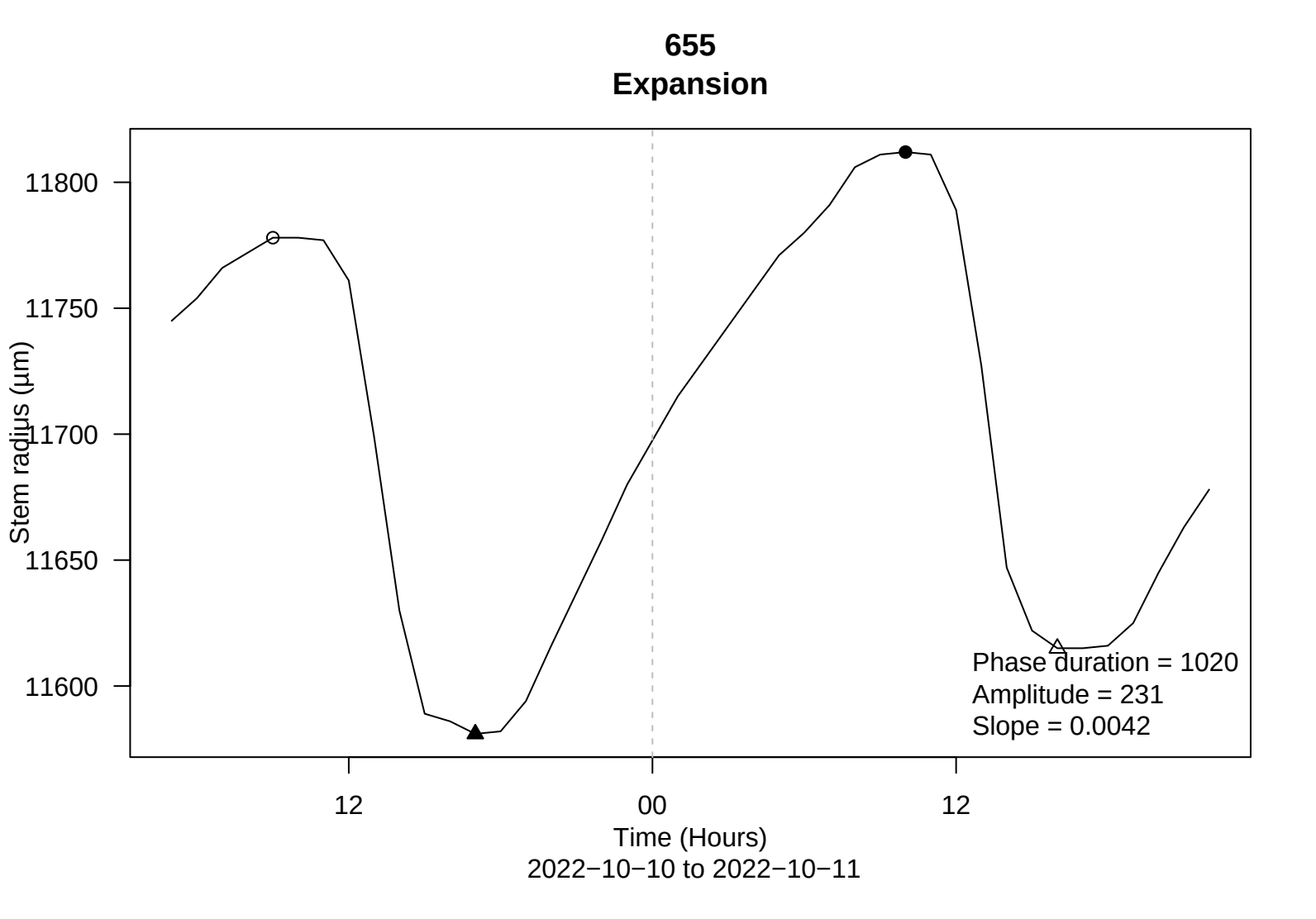

655
Shrinkage
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 420
Amplitude = −213
Slope = −0.0103
00
12
00
Time (Hours)
2022−10−08 to 2022−10−08

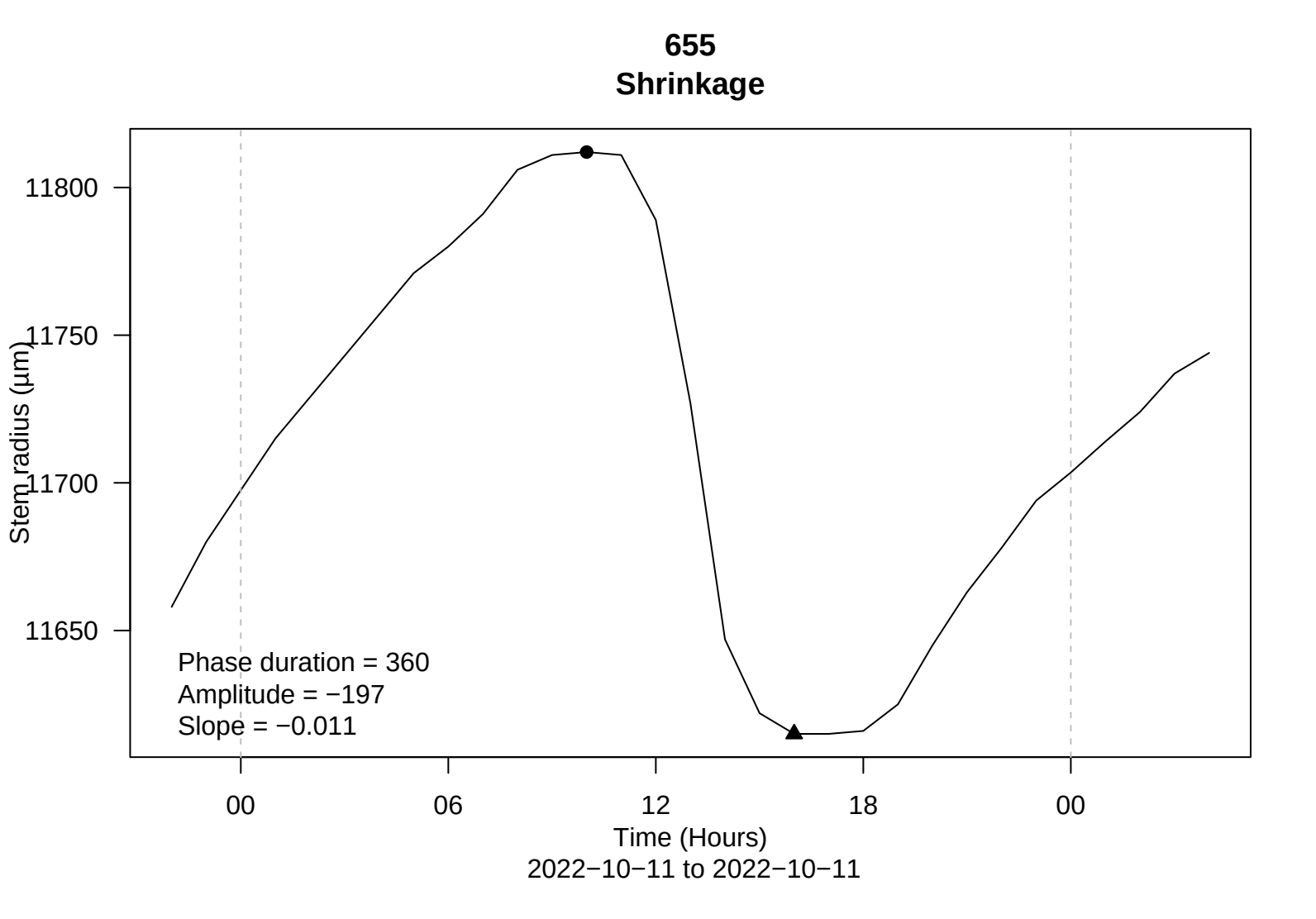

655
Expansion
11900
11850
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 960
Amplitude = 301
Slope = 0.0043
12
00
12
Time (Hours)
2022−10−08 to 2022−10−09

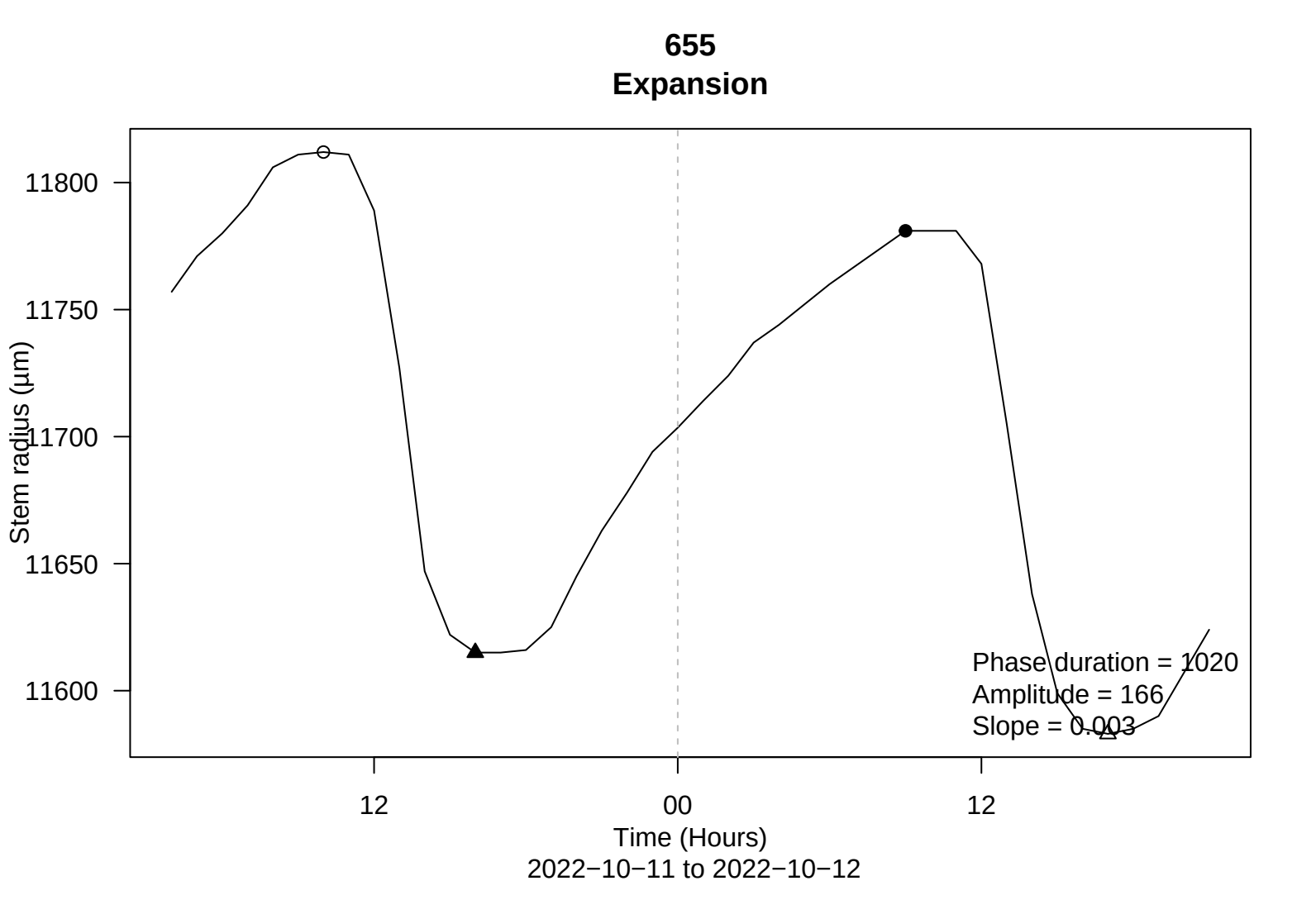

655
Shrinkage
11900
11850
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 540
Amplitude = −315
Slope = −0.0112
00
12
00
Time (Hours)
2022−10−09 to 2022−10−09

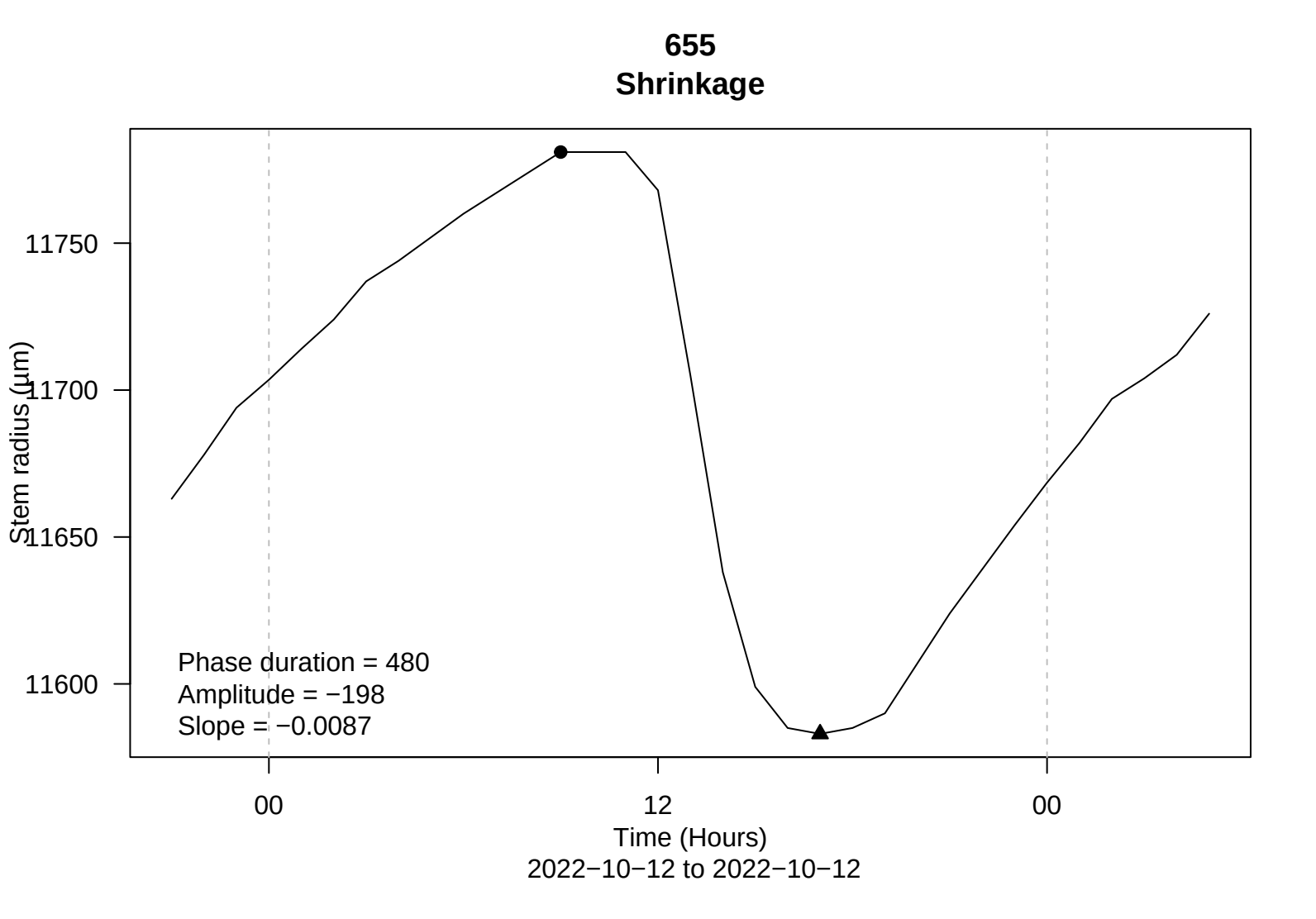

655
Expansion
11900
11850
11800
11750
11700
11650
11600
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−09 to 2022−10−10
Phase duration = 900
Amplitude = 184
Slope = 0.0035

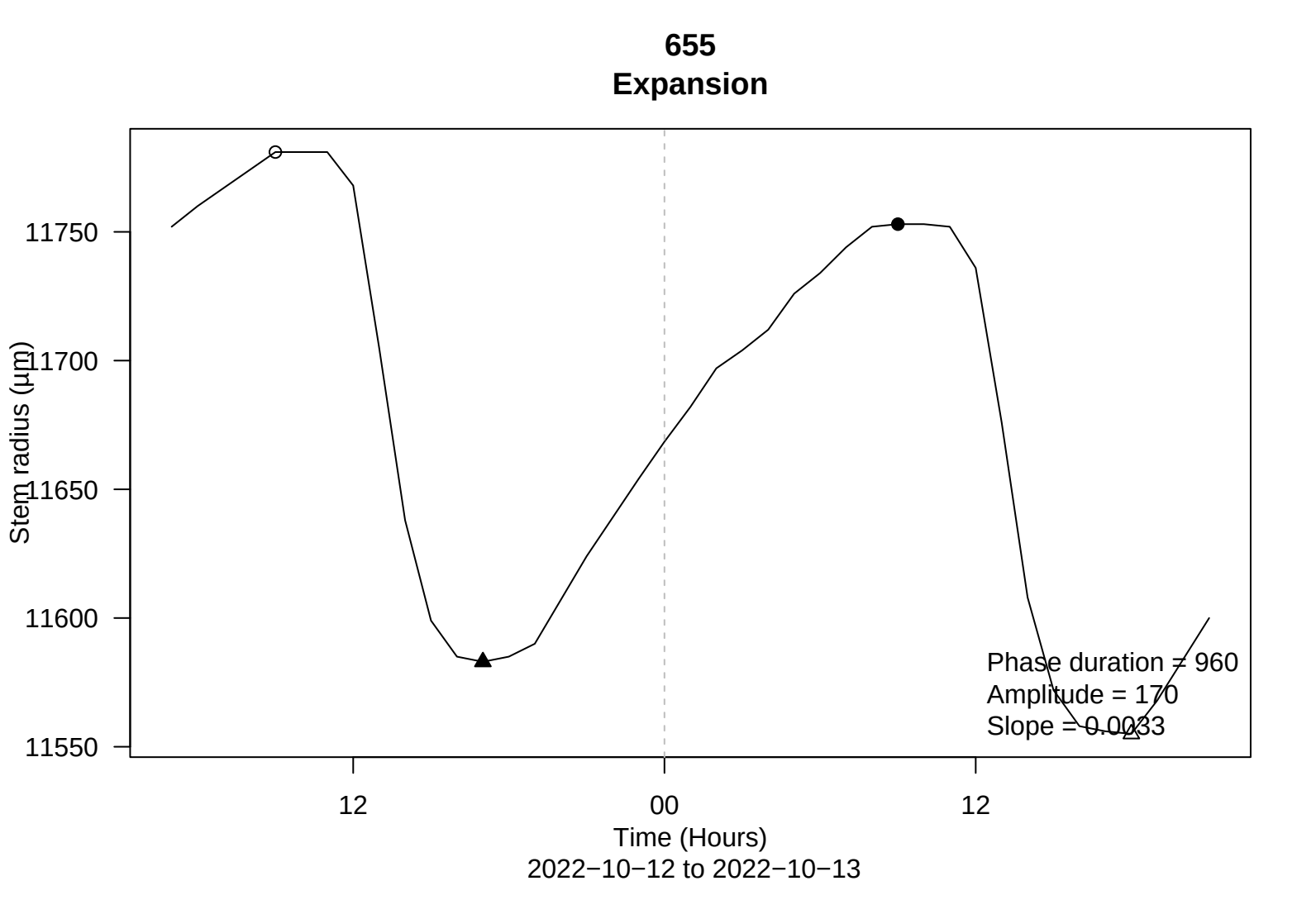

655
Shrinkage
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 480
Amplitude = −197
Slope = −0.0087
00
12
00
Time (Hours)
2022−10−10 to 2022−10−10

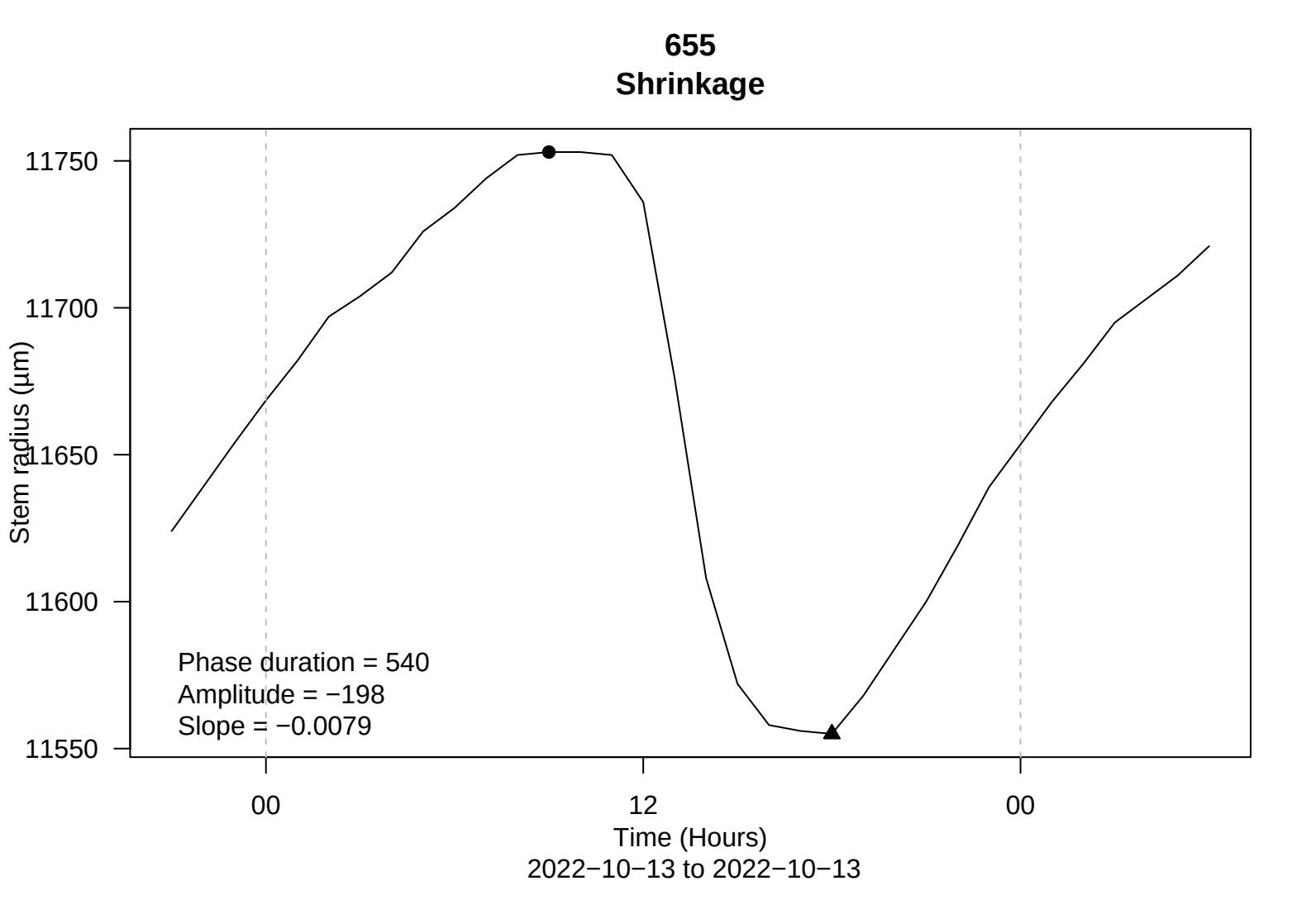

655
Expansion
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 1020
Amplitude = 231
Slope = 0.0042
12
00
12
Time (Hours)
2022−10−10 to 2022−10−11

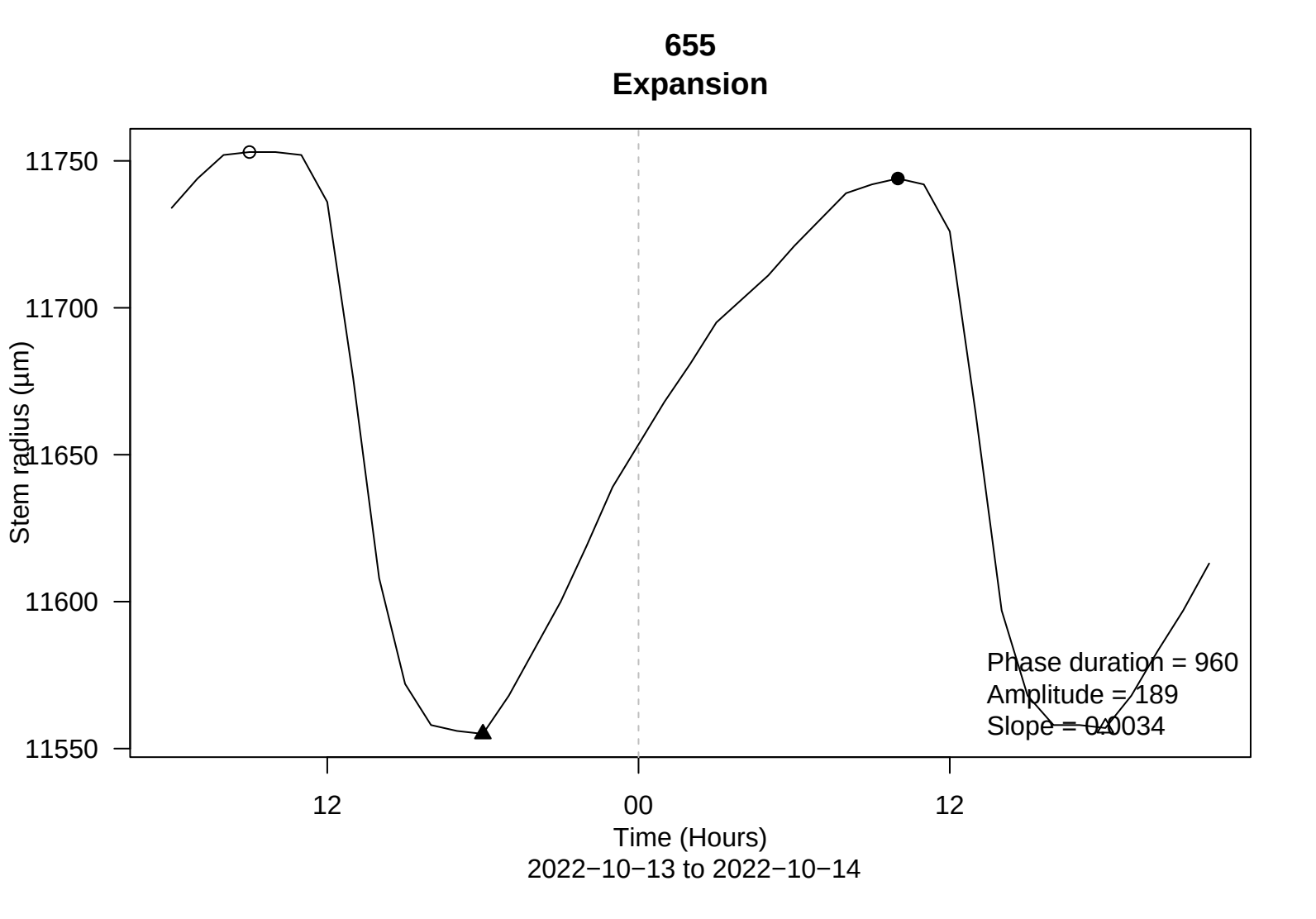

655
Shrinkage
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 360
Amplitude = −197
Slope = −0.011
00
06
12
18
00
Time (Hours)
2022−10−11 to 2022−10−11

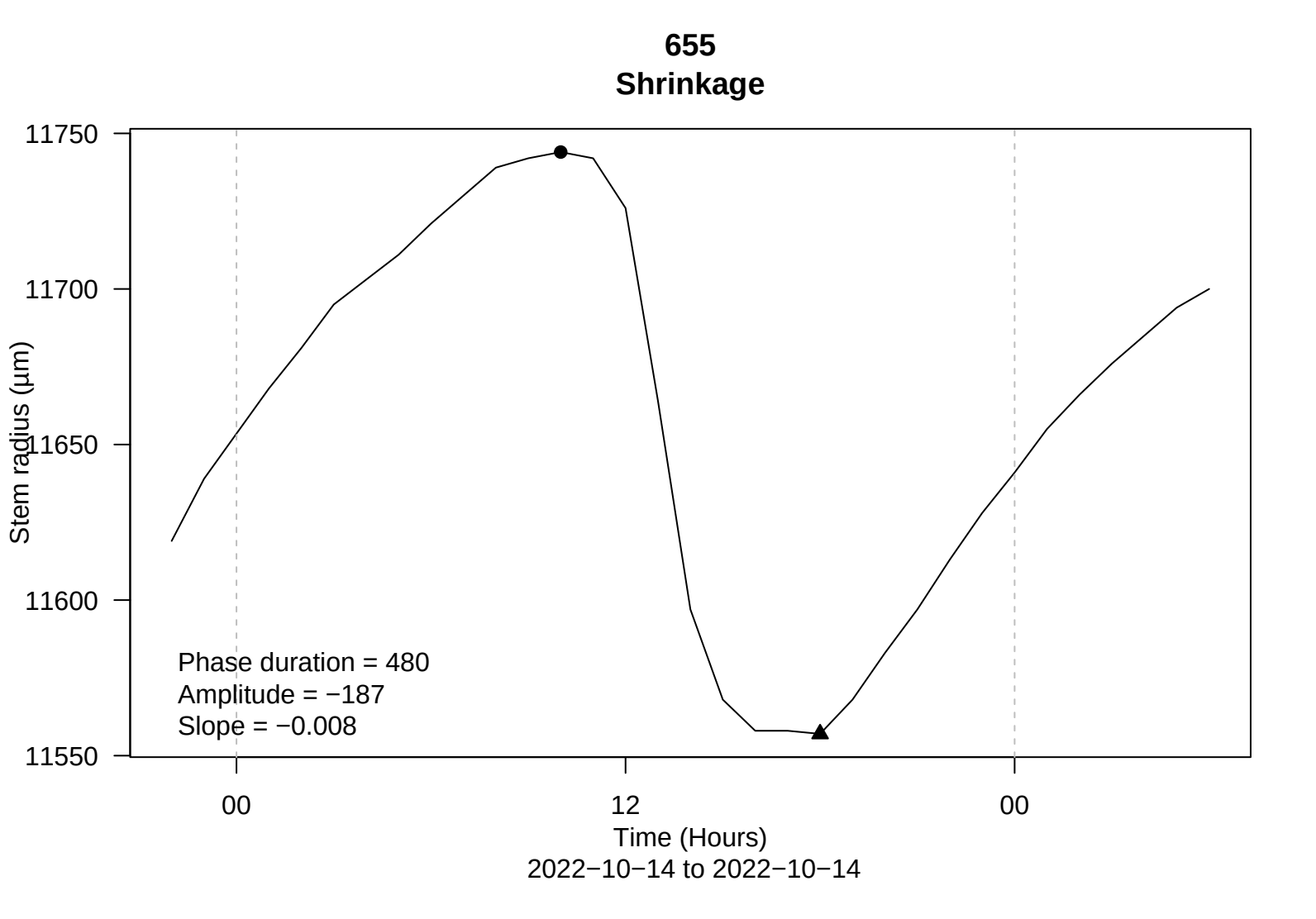

655
Expansion
11800
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 1020
Amplitude = 166
Slope = 0.003
12
00
12
Time (Hours)
2022−10−11 to 2022−10−12

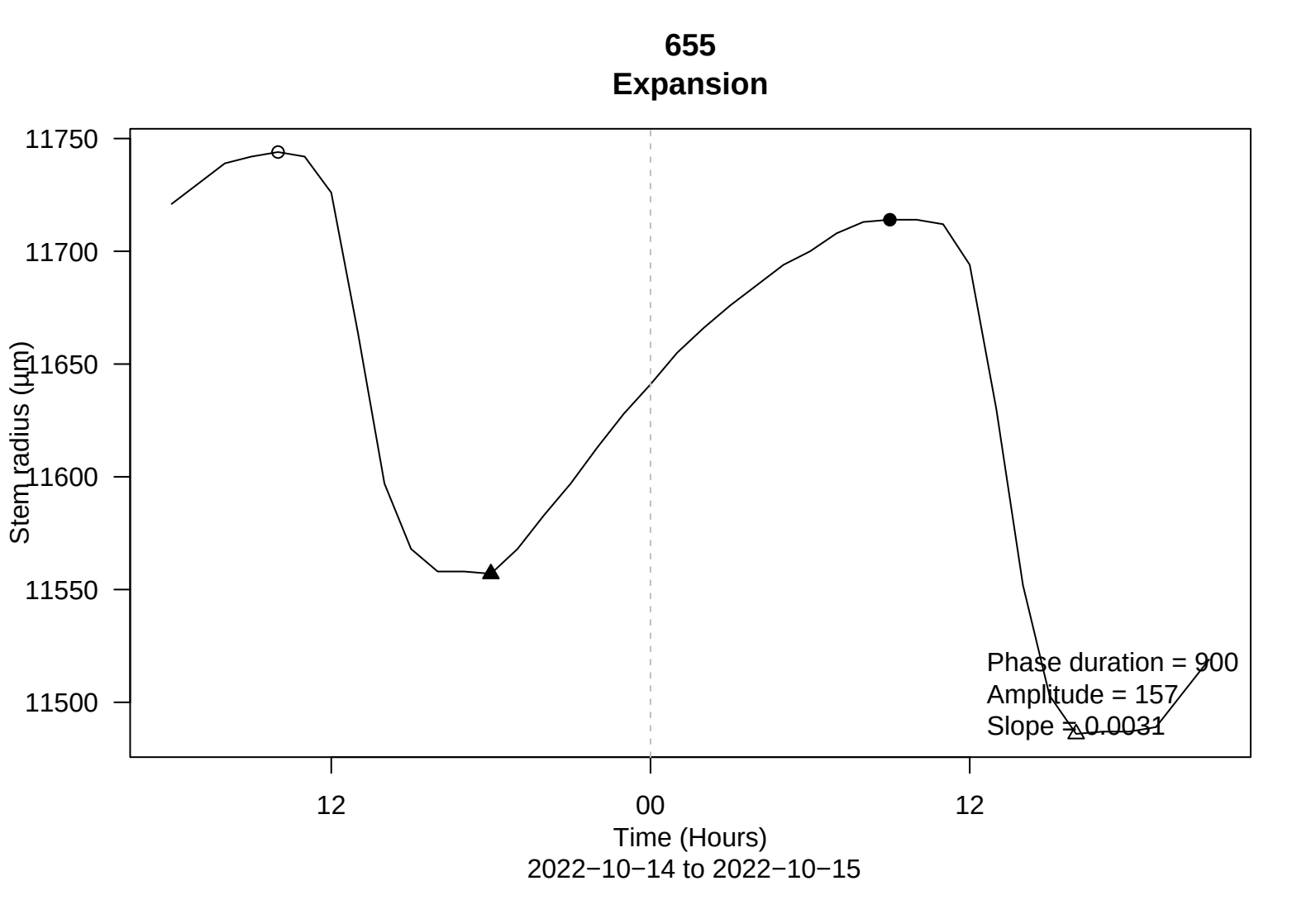

655
Shrinkage
11750
11700
11650
11600
Stem radius (µm)
Phase duration = 480
Amplitude = −198
Slope = −0.0087
00
12
00
Time (Hours)
2022−10−12 to 2022−10−12

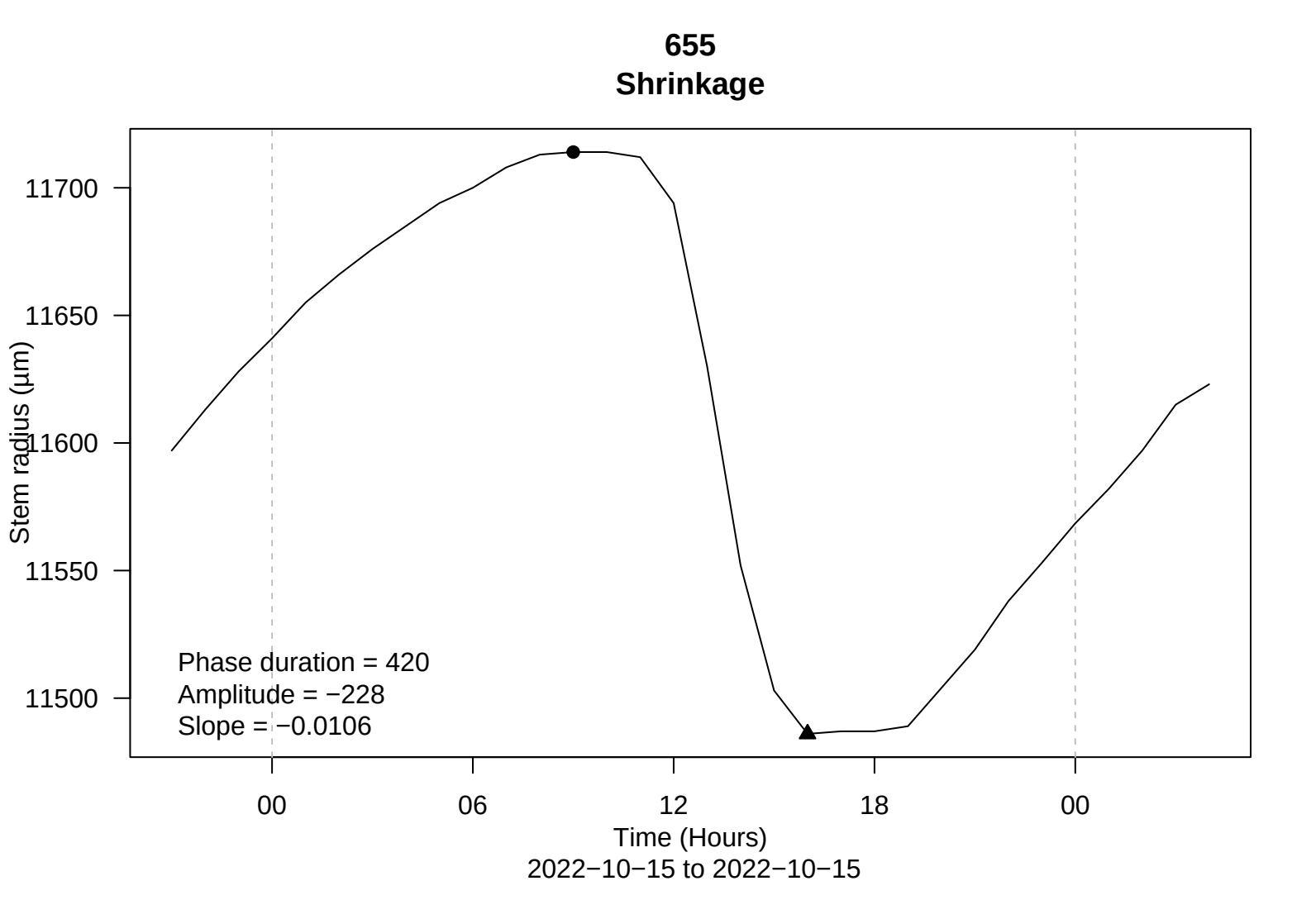

655
Expansion
11750
11700
11650
11600
11550
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−12 to 2022−10−13
Phase duration = 960
Amplitude = 170
Slope = 0.0033

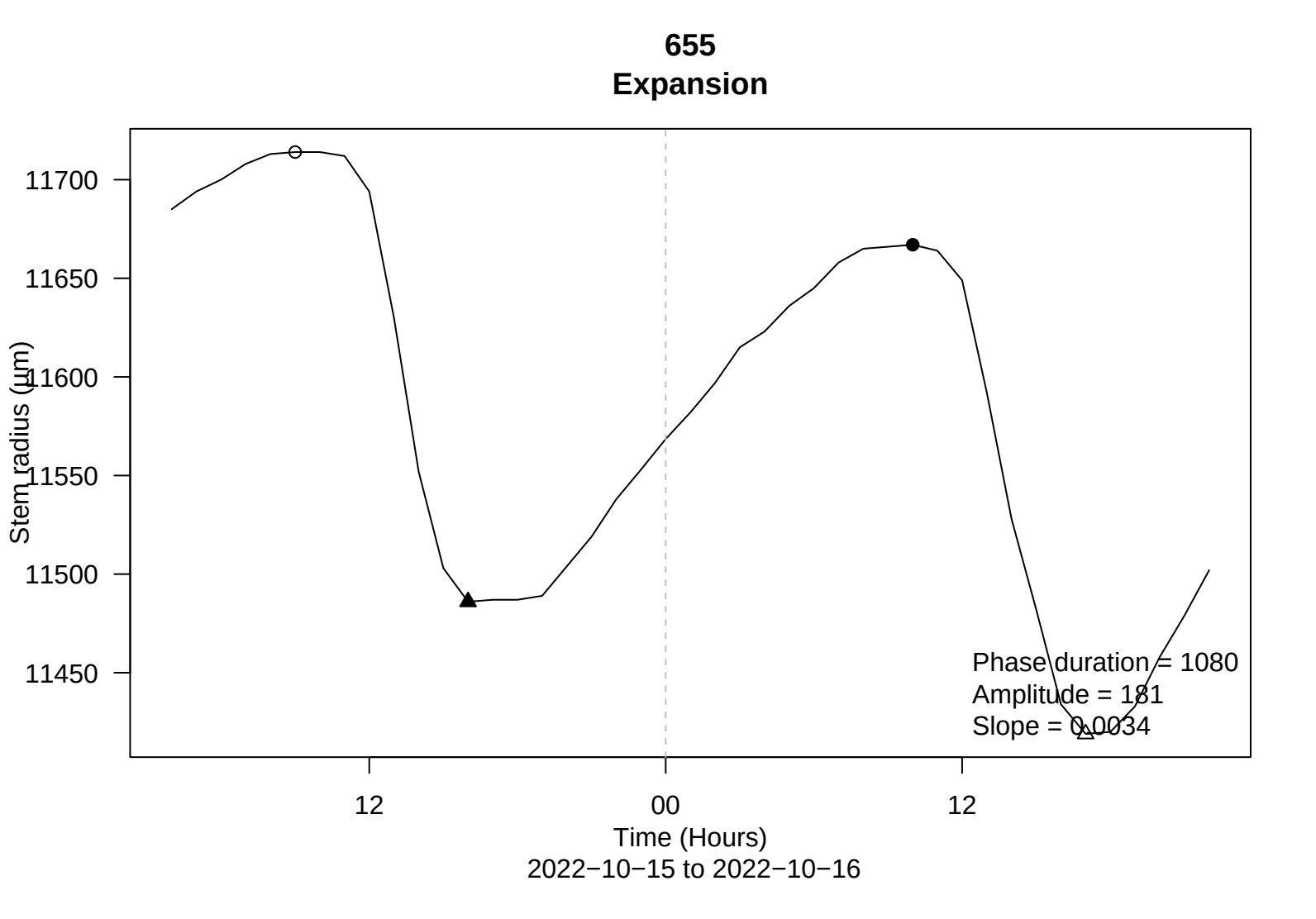

655
Shrinkage
11750
11700
11650
11600
11550
Stem radius (µm)
Phase duration = 540
Amplitude = −198
Slope = −0.0079
00
12
00
Time (Hours)
2022−10−13 to 2022−10−13

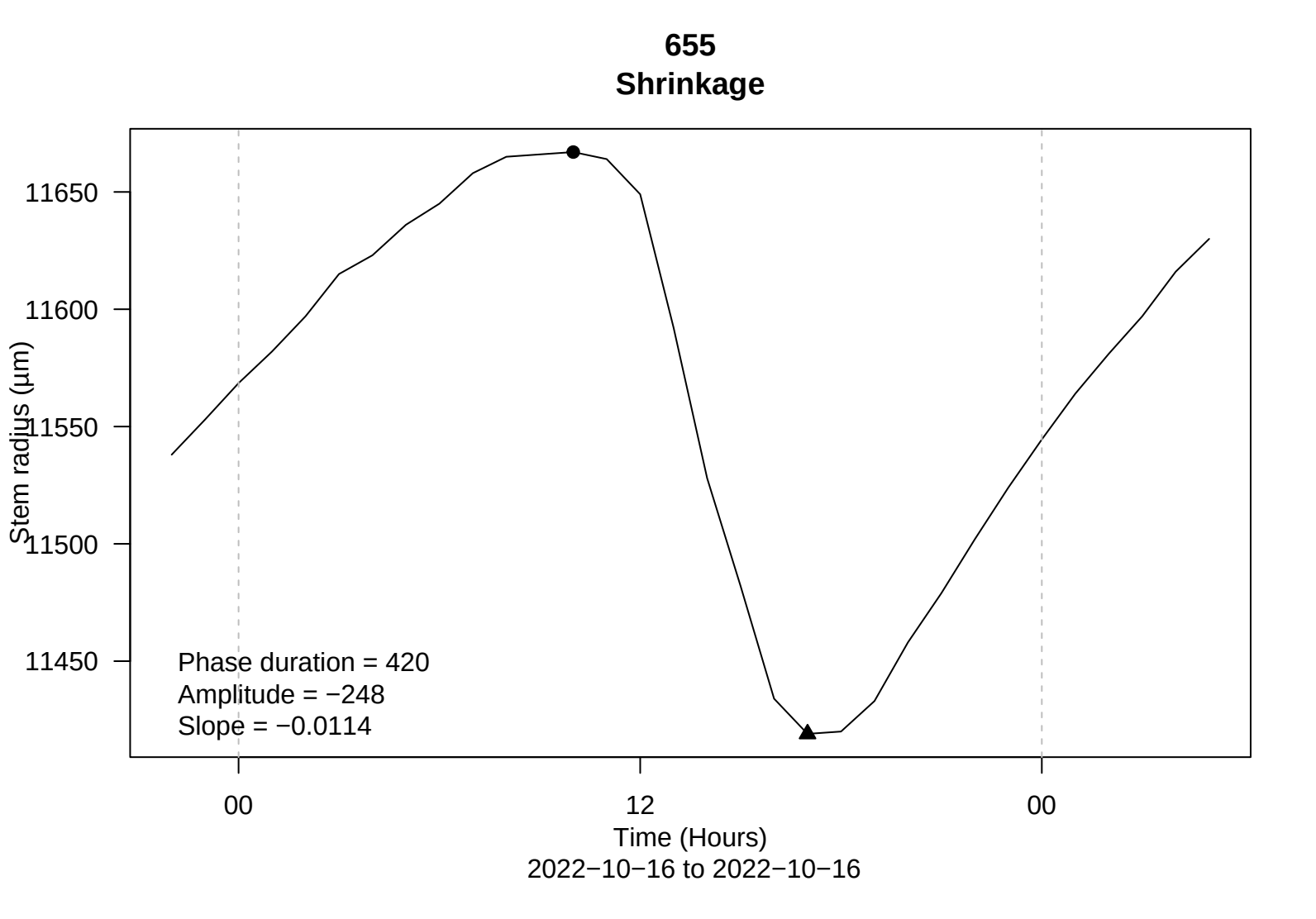

655
Expansion
11750
11700
11650
11600
11550
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−13 to 2022−10−14
Phase duration = 960
Amplitude = 189
Slope = 0.0034

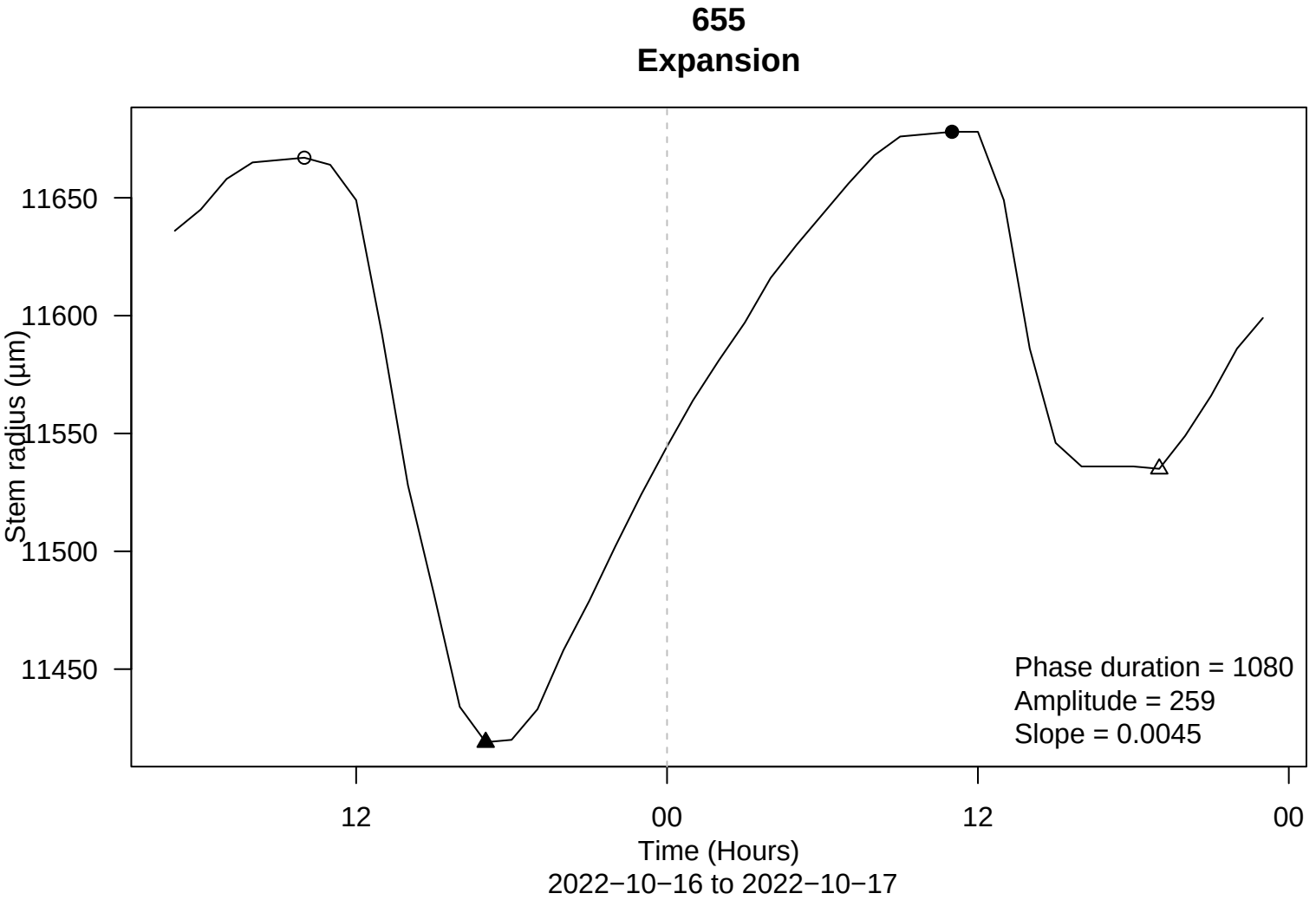

655
Shrinkage
11750
11700
11650
11600
11550
Stem radius (µm)
Phase duration = 480
Amplitude = −187
Slope = −0.008
00
12
00
Time (Hours)
2022−10−14 to 2022−10−14

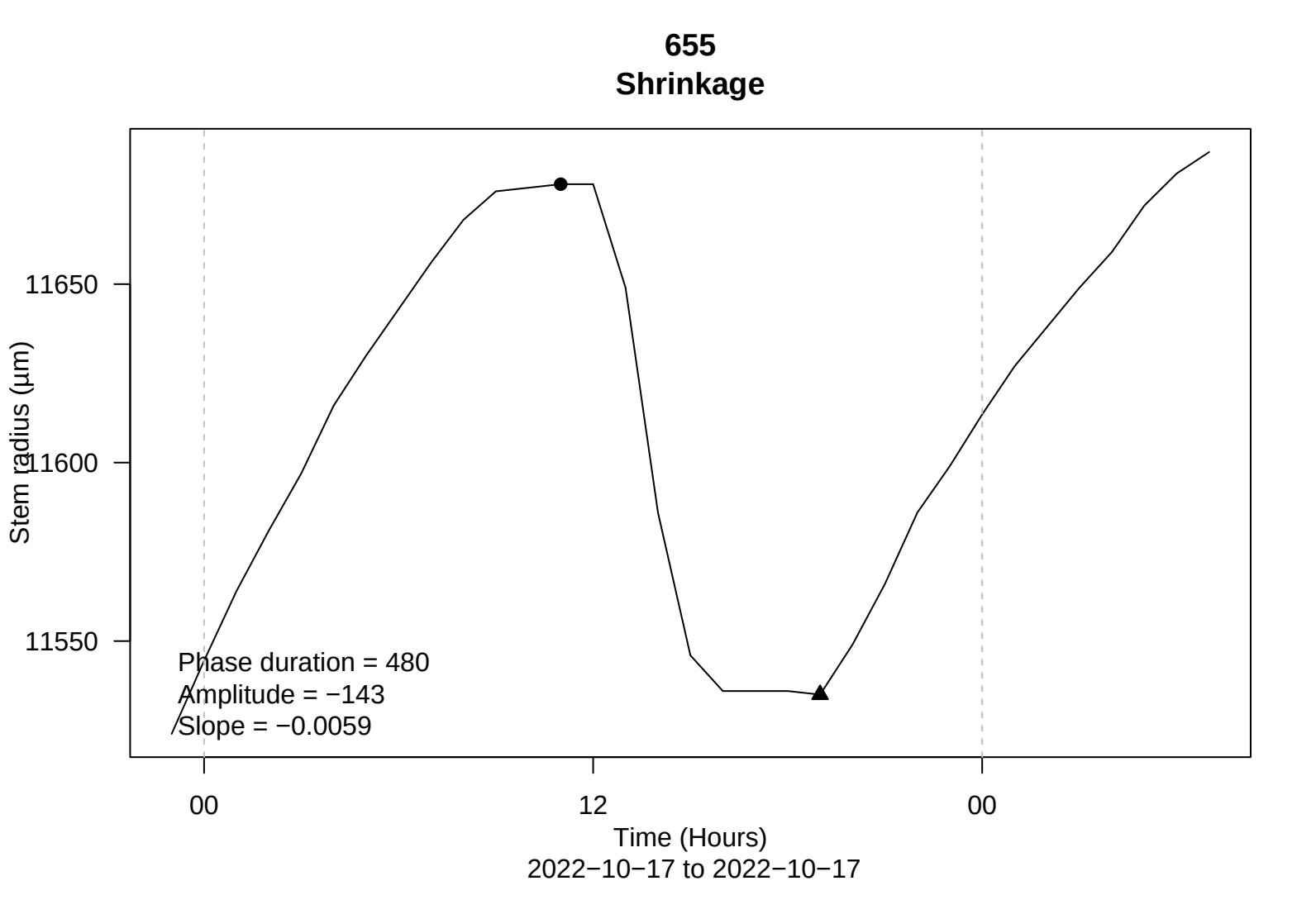

655
Expansion
11750
11700
11650
11600
11550
11500
Stem radius (µm)
Phase duration = 900
Amplitude = 157
Slope = 0.0031
12
00
12
Time (Hours)
2022−10−14 to 2022−10−15

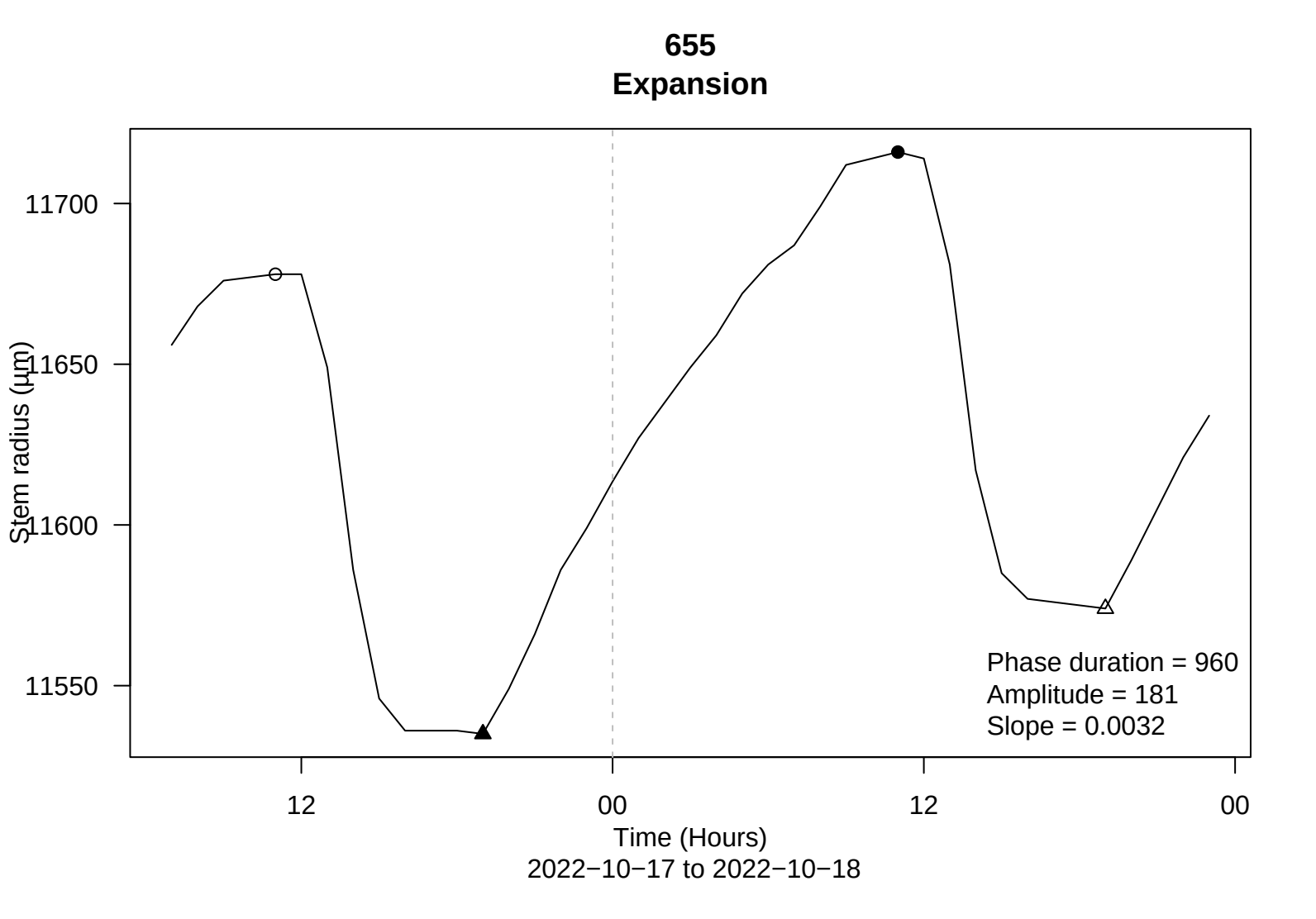

655
Shrinkage
11700
11650
11600
11550
11500
Stem radius (µm)
Phase duration = 420
Amplitude = −228
Slope = −0.0106
00
06
12
18
00
Time (Hours)
2022−10−15 to 2022−10−15

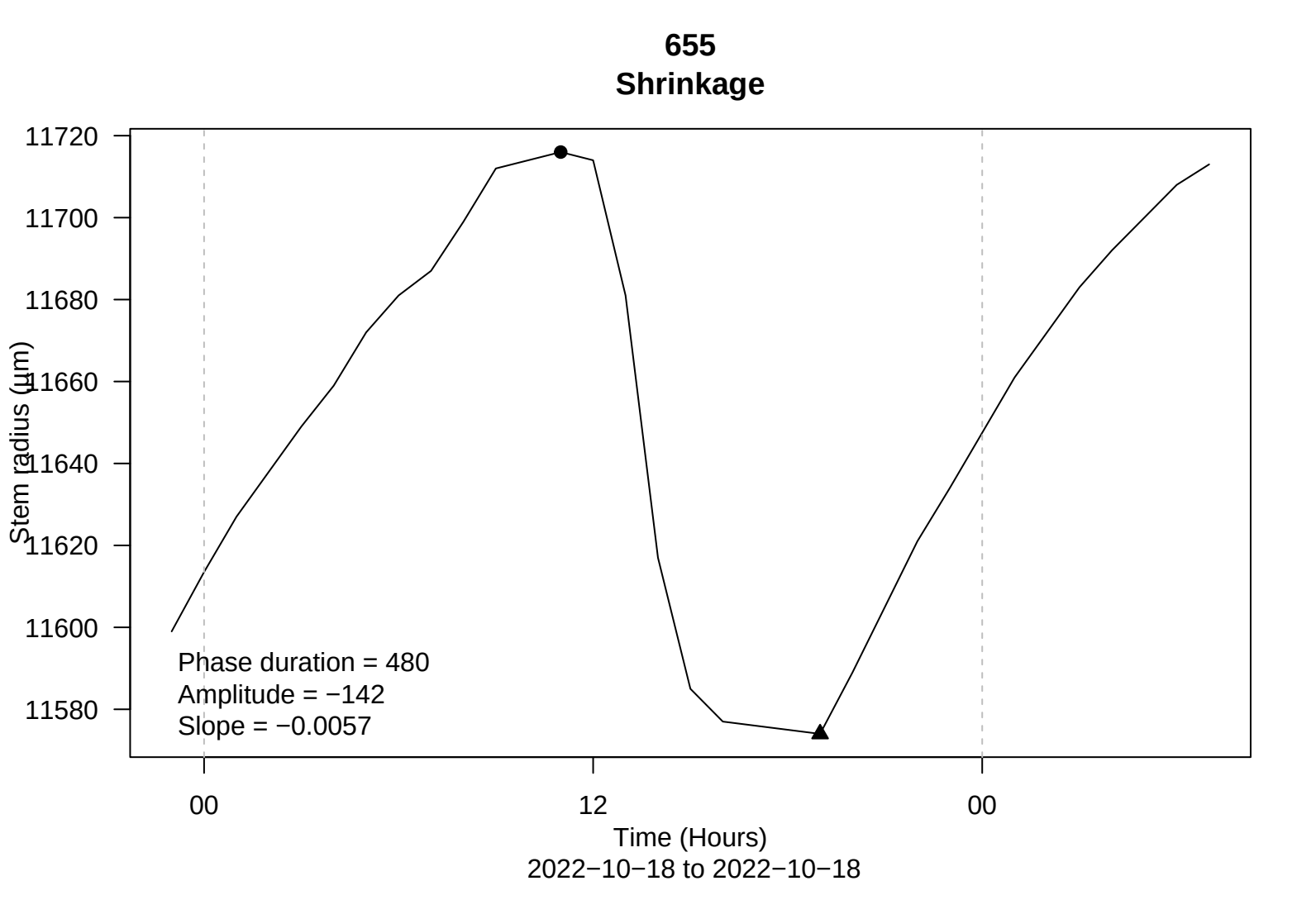

655
Expansion
11700
11650
11600
11550
11500
11450
Stem radius (µm)
Phase duration = 1080
Amplitude = 181
Slope = 0.0034
12
00
12
Time (Hours)
2022−10−15 to 2022−10−16

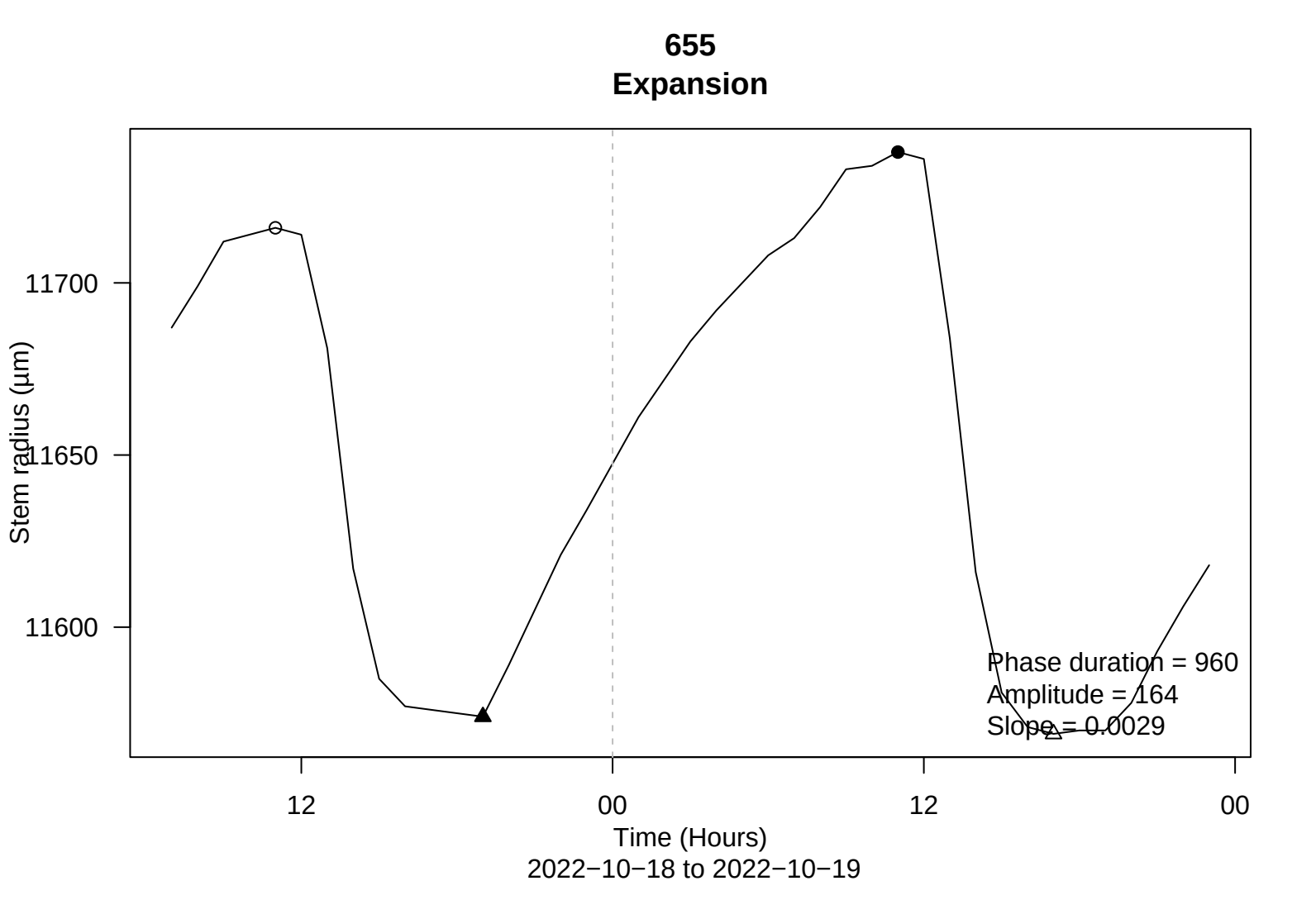

655
Shrinkage
11650
11600
11550
11500
11450
Stem radius (µm)
Phase duration = 420
Amplitude = −248
Slope = −0.0114
00
12
00
Time (Hours)
2022−10−16 to 2022−10−16

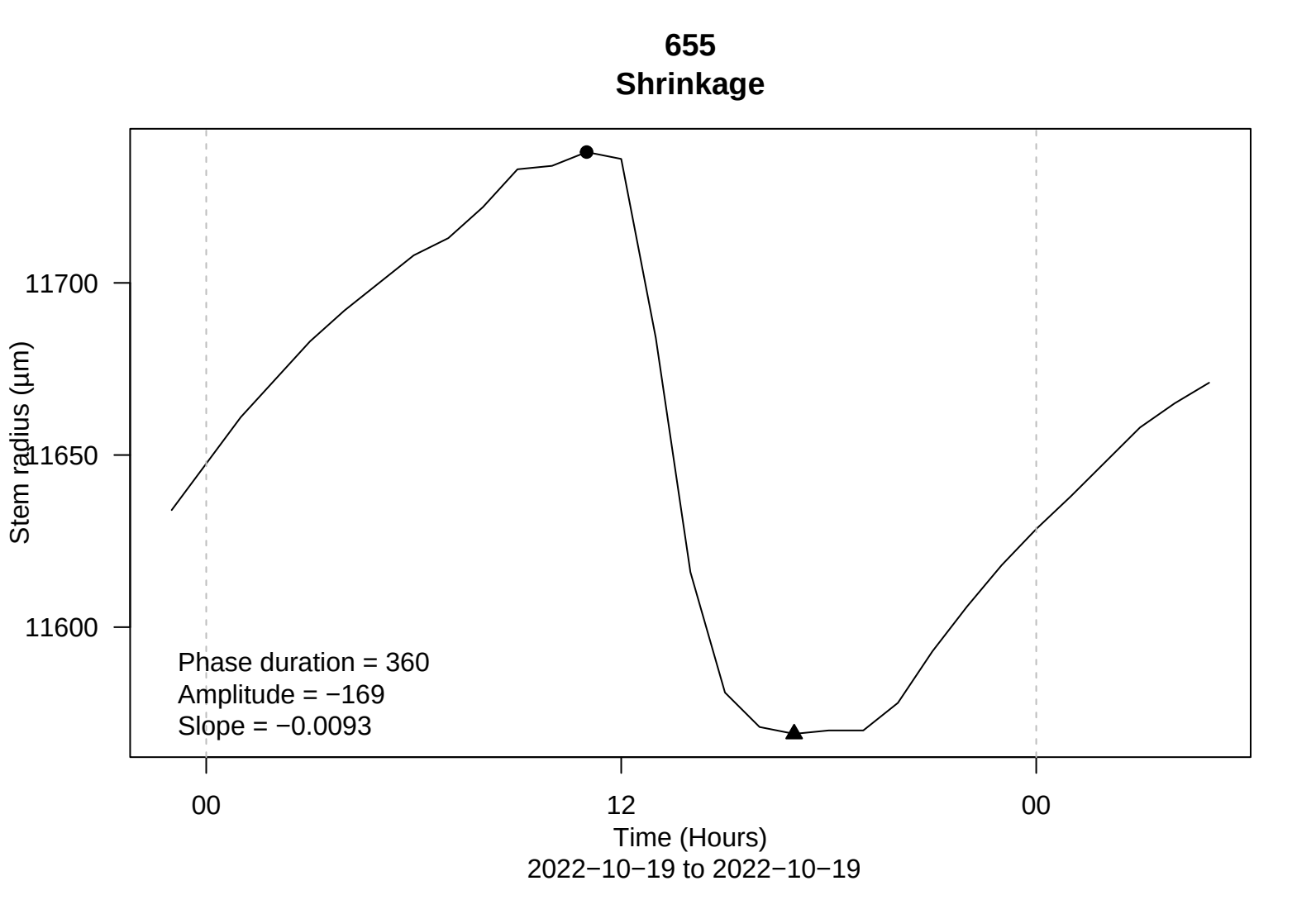

655
Expansion
11650
11600
11550
11500
11450
Stem radius (µm)
Phase duration = 1080
Amplitude = 259
Slope = 0.0045
12
00
12
00
Time (Hours)
2022−10−16 to 2022−10−17

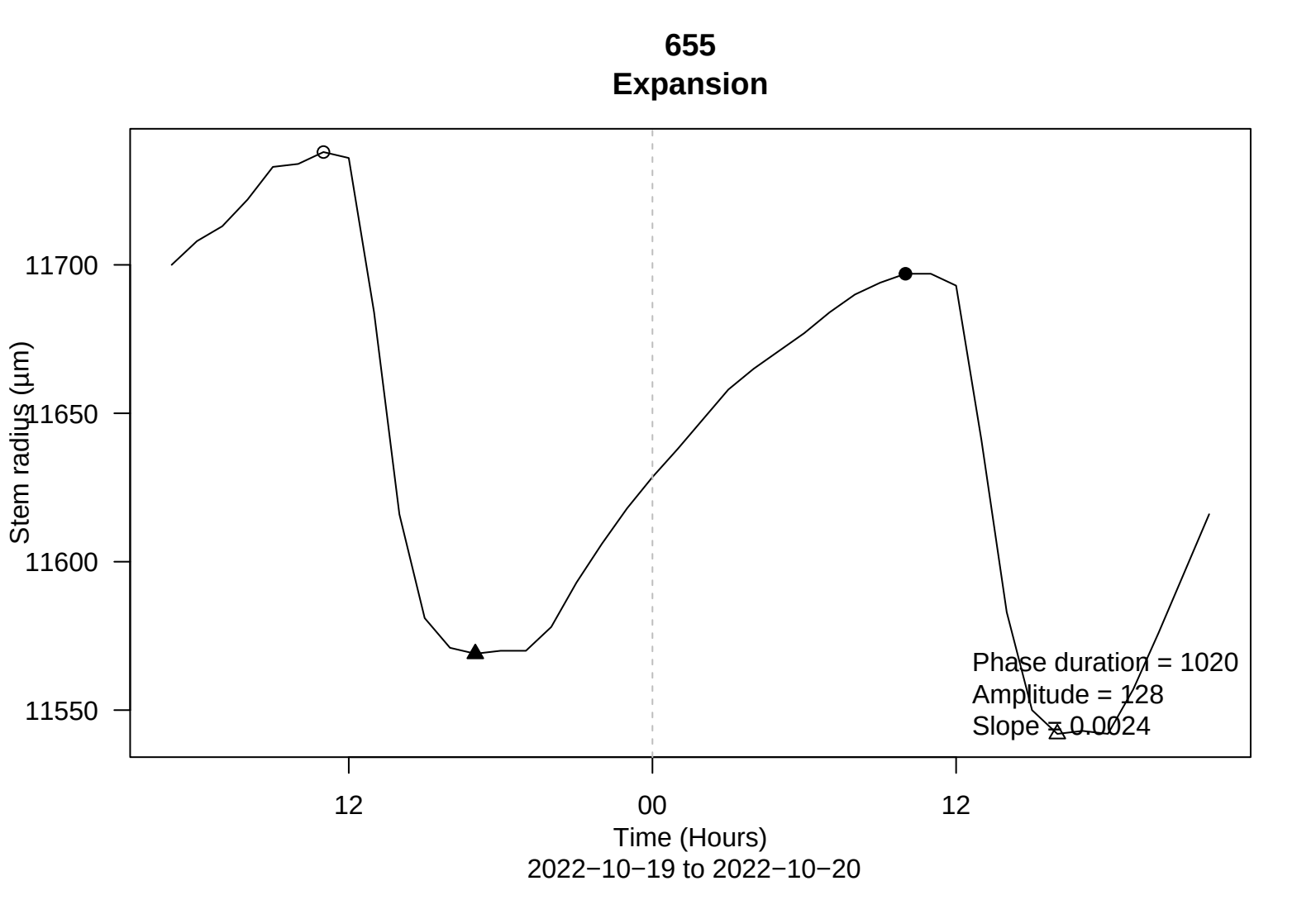

655
Shrinkage
11650
11600
11550
Stem radius (µm)
Phase duration = 480
Amplitude = −143
Slope = −0.0059
00
12
00
Time (Hours)
2022−10−17 to 2022−10−17

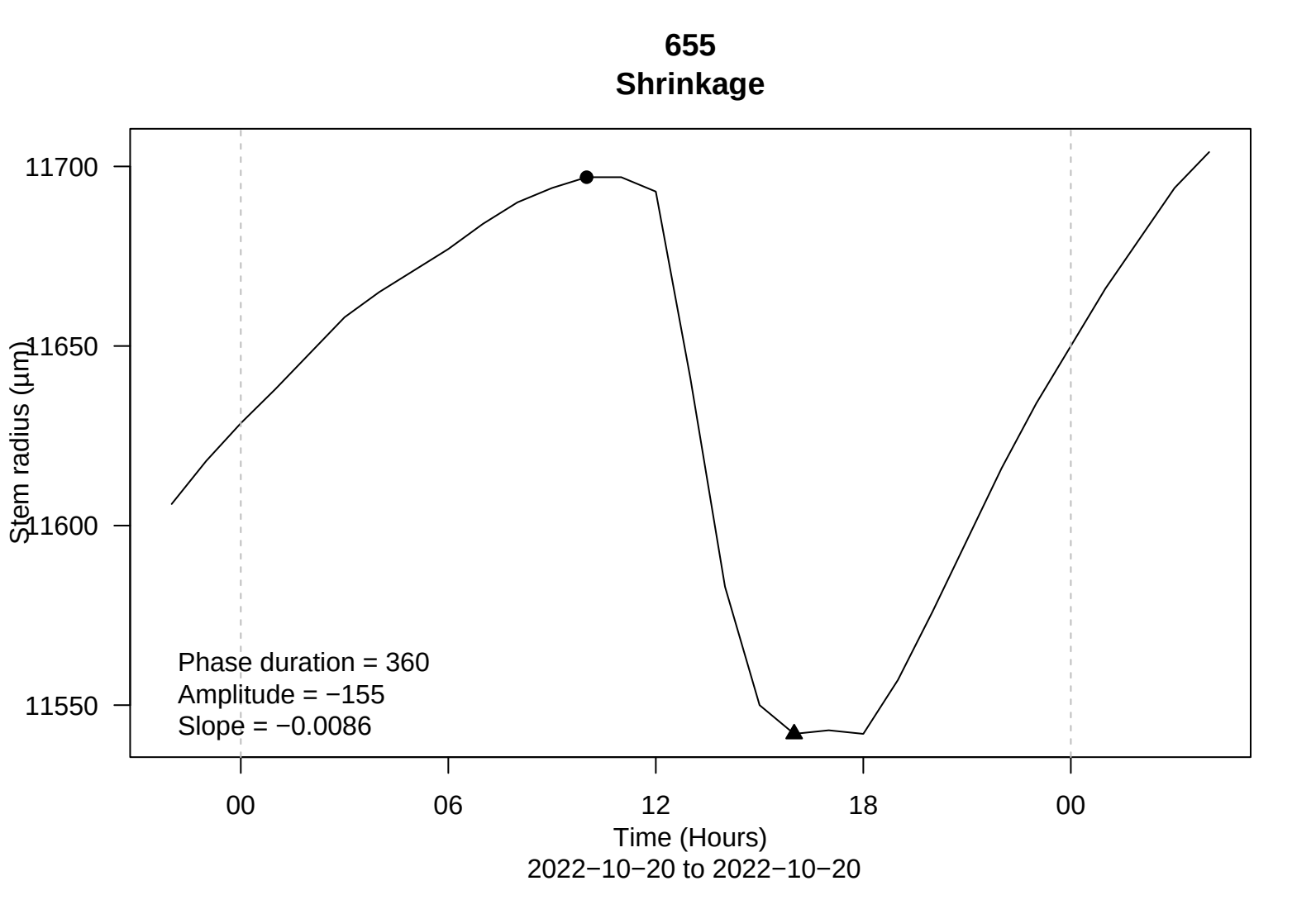

655
Expansion
11700
11650
11600
11550
Stem radius (µm)
Phase duration = 960
Amplitude = 181
Slope = 0.0032
12
00
12
00
Time (Hours)
2022−10−17 to 2022−10−18

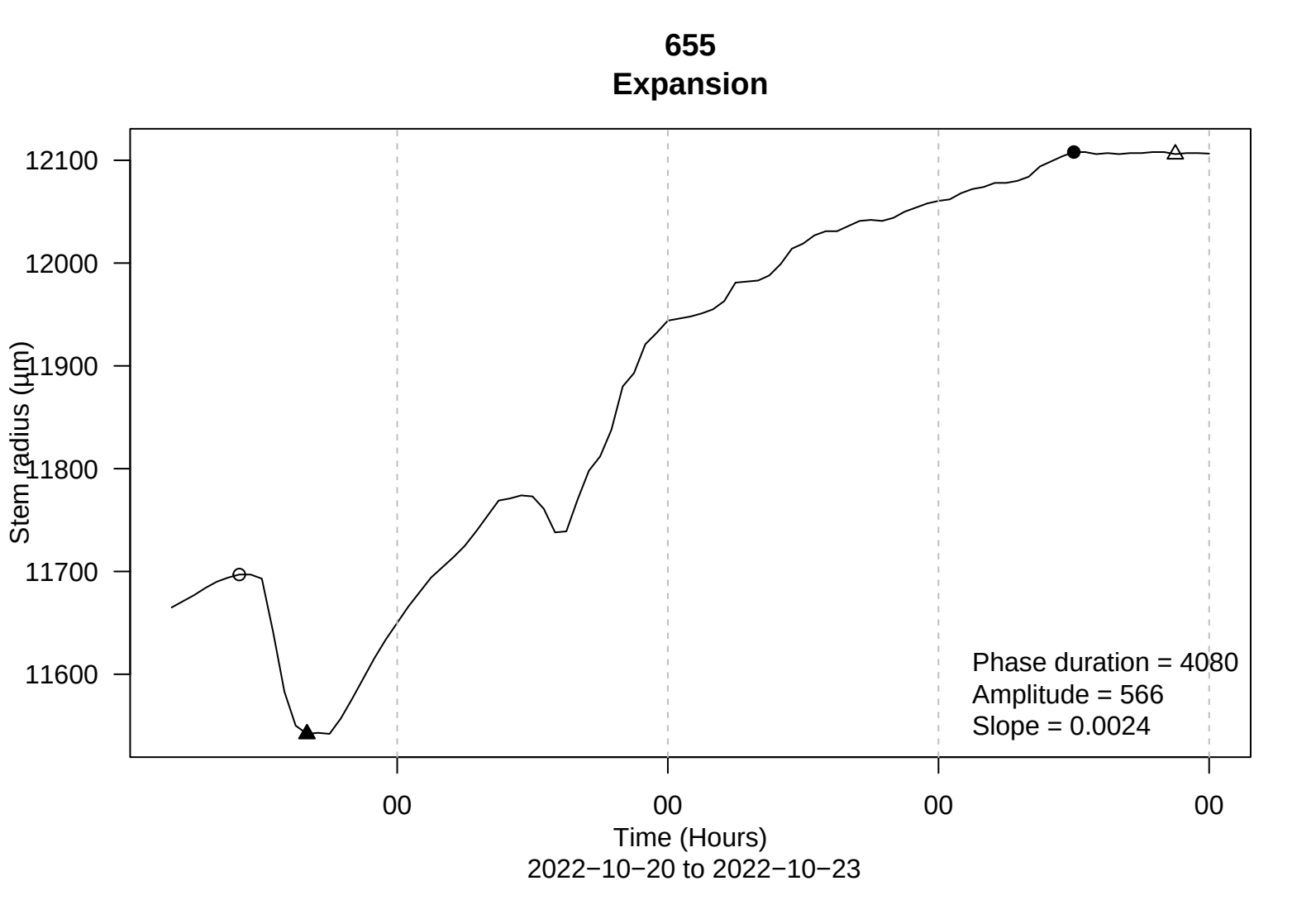

655
Shrinkage
11720
11700
11680
11660
11640
11620
11600
11580
Stem radius (µm)
Phase duration = 480
Amplitude = −142
Slope = −0.0057
00
12
00
Time (Hours)
2022−10−18 to 2022−10−18

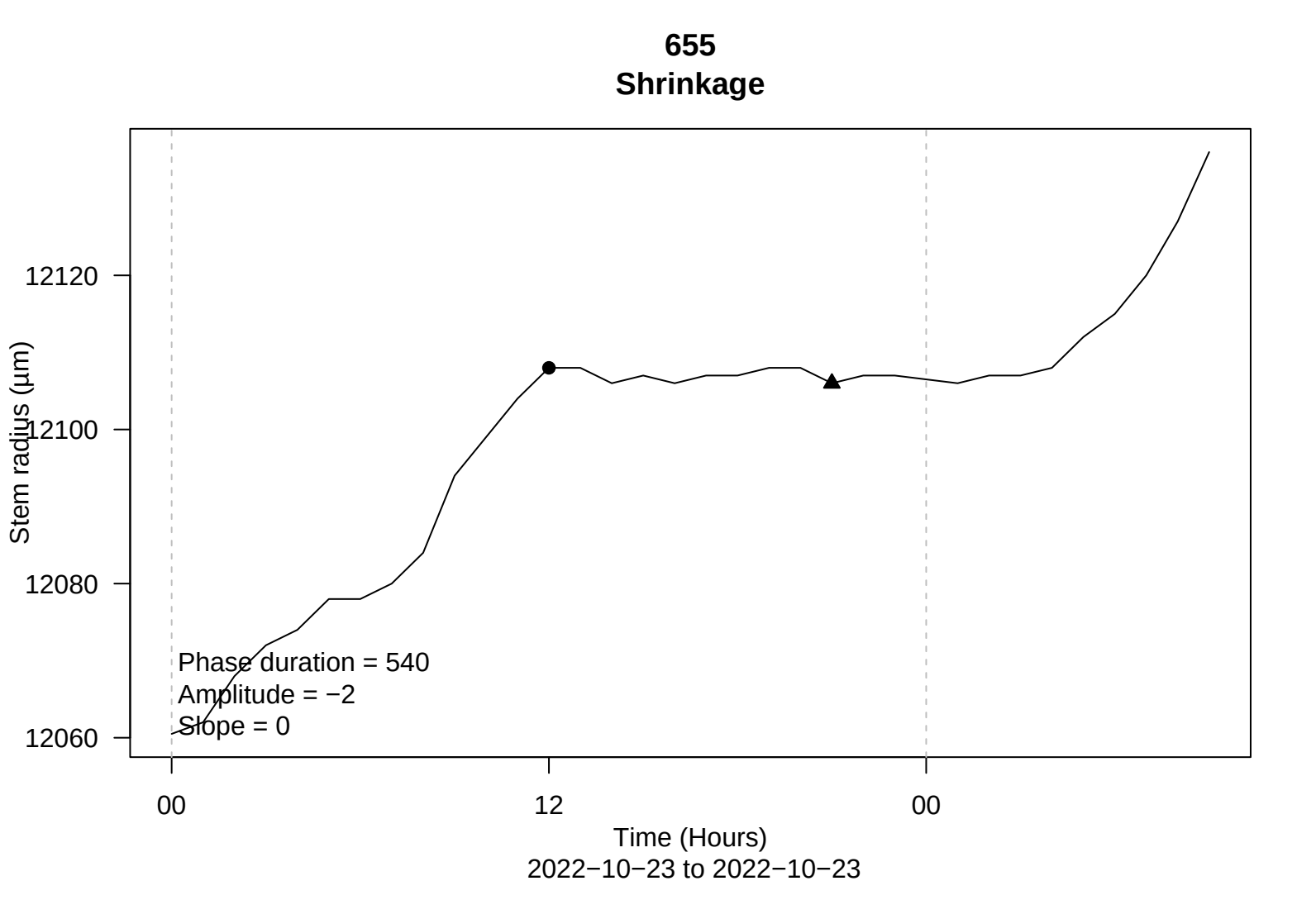

655
Expansion
11700
11650
11600
Stem radius (µm)
Phase duration = 960
Amplitude = 164
Slope = 0.0029
12
00
12
00
Time (Hours)
2022−10−18 to 2022−10−19

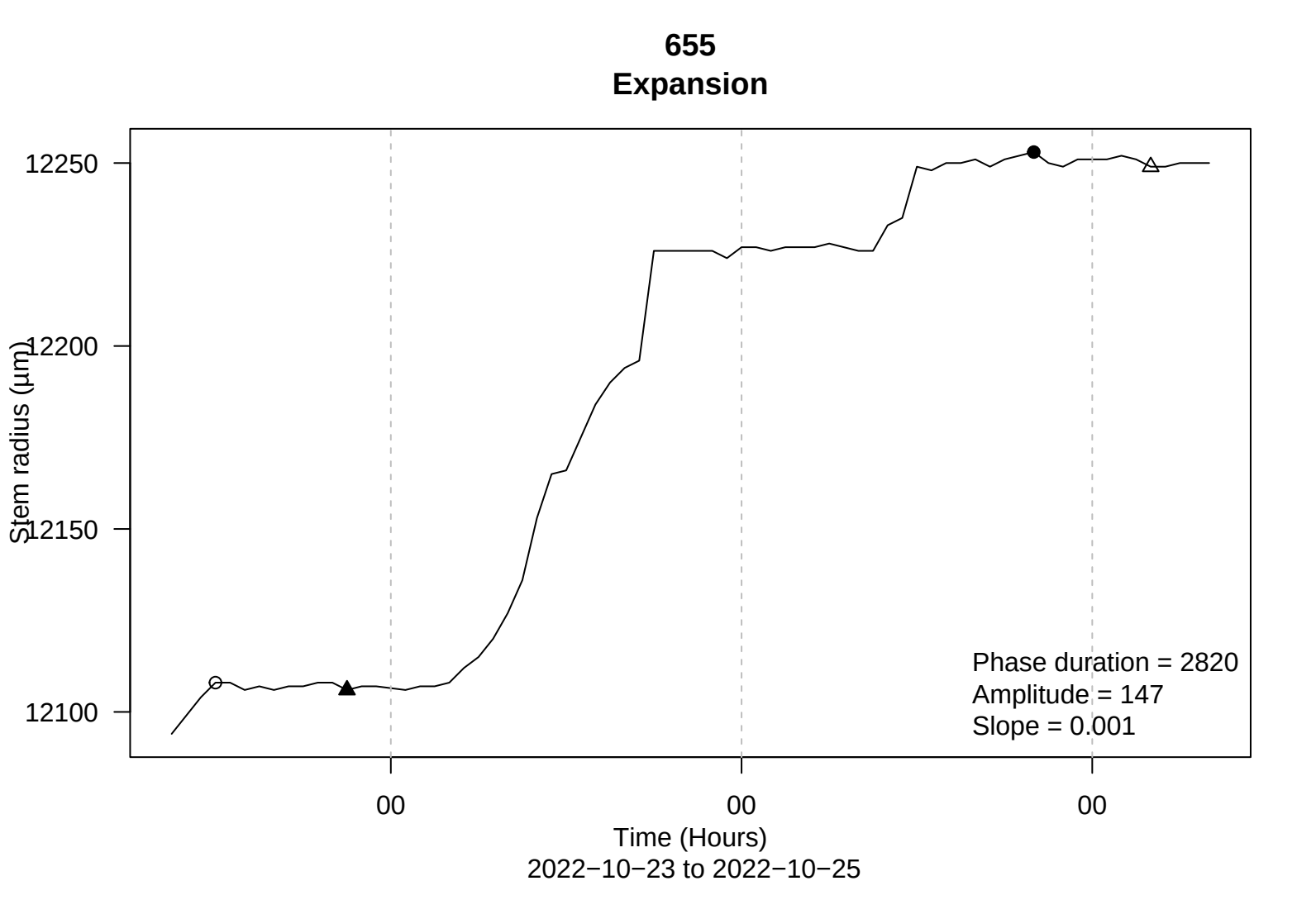

655
Shrinkage
11700
11650
11600
Stem radius (µm)
Phase duration = 360
Amplitude = −169
Slope = −0.0093
00
12
00
Time (Hours)
2022−10−19 to 2022−10−19

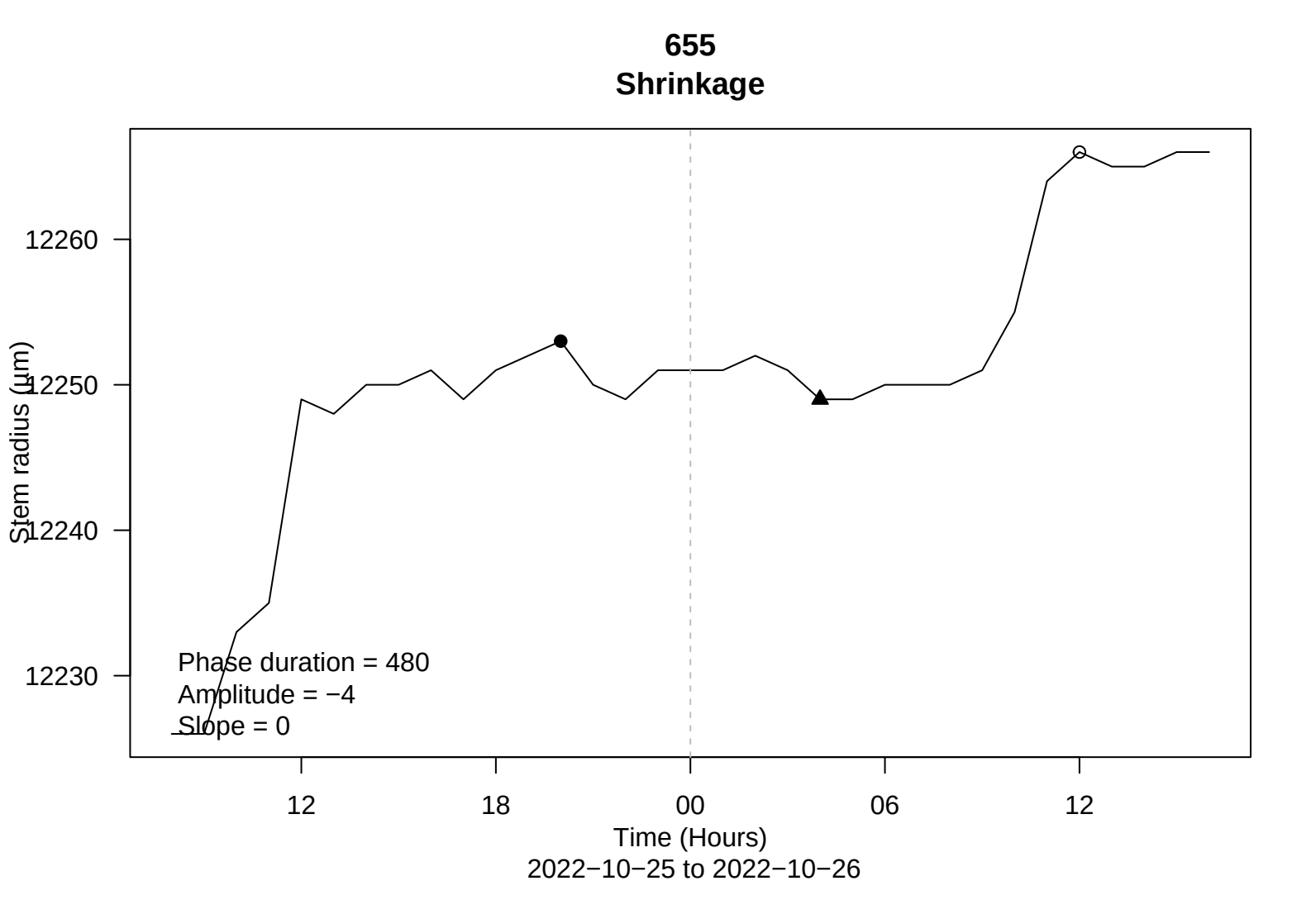

655
Expansion
11700
11650
11600
11550
Stem radius (µm)
12
00
12
Time (Hours)
2022−10−19 to 2022−10−20
Phase duration = 1020
Amplitude = 128
Slope = 0.0024

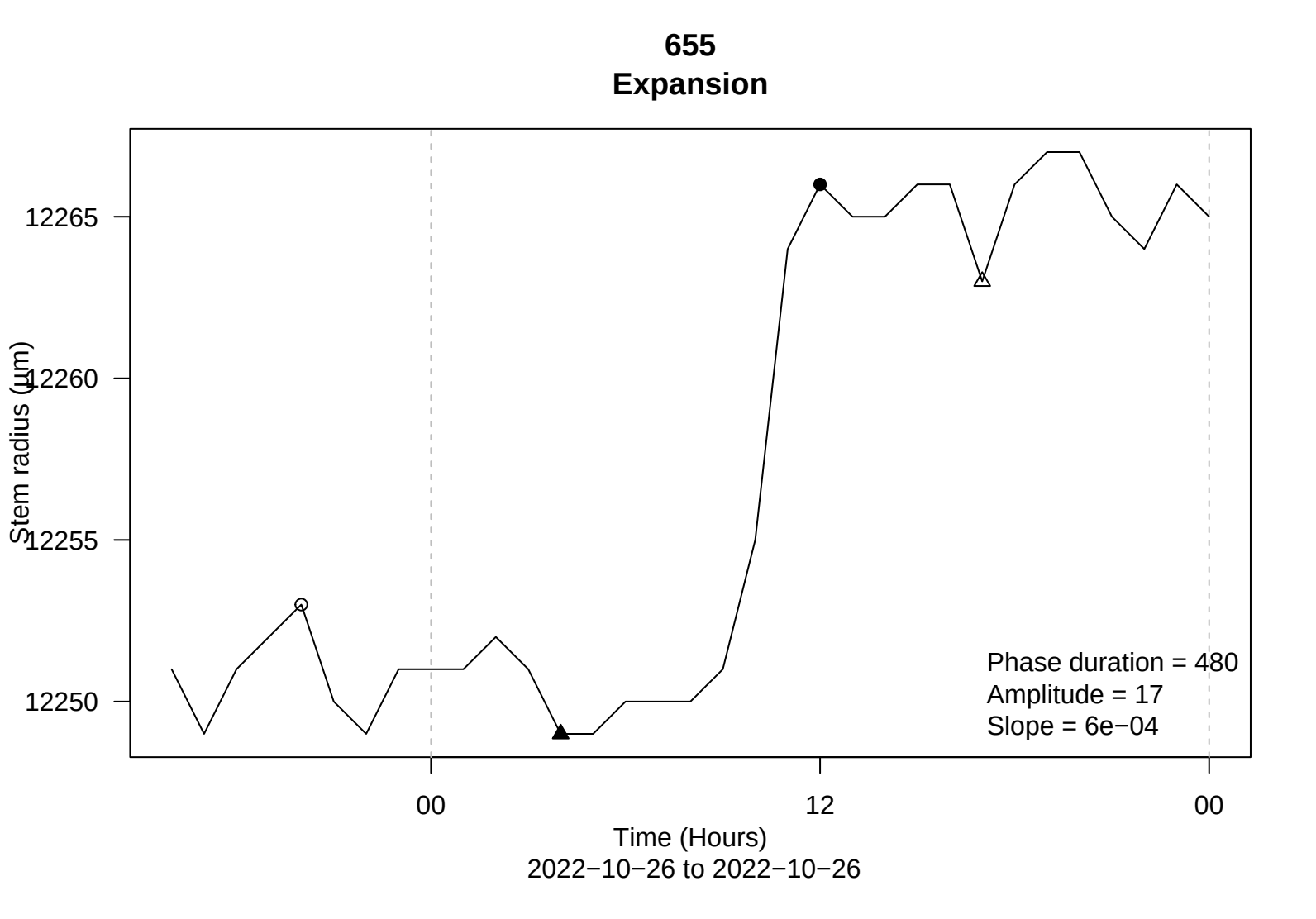

655
Shrinkage
11700
11650
11600
11550
Stem radius (µm)
Phase duration = 360
Amplitude = −155
Slope = −0.0086
00
06
12
18
00
Time (Hours)
2022−10−20 to 2022−10−20

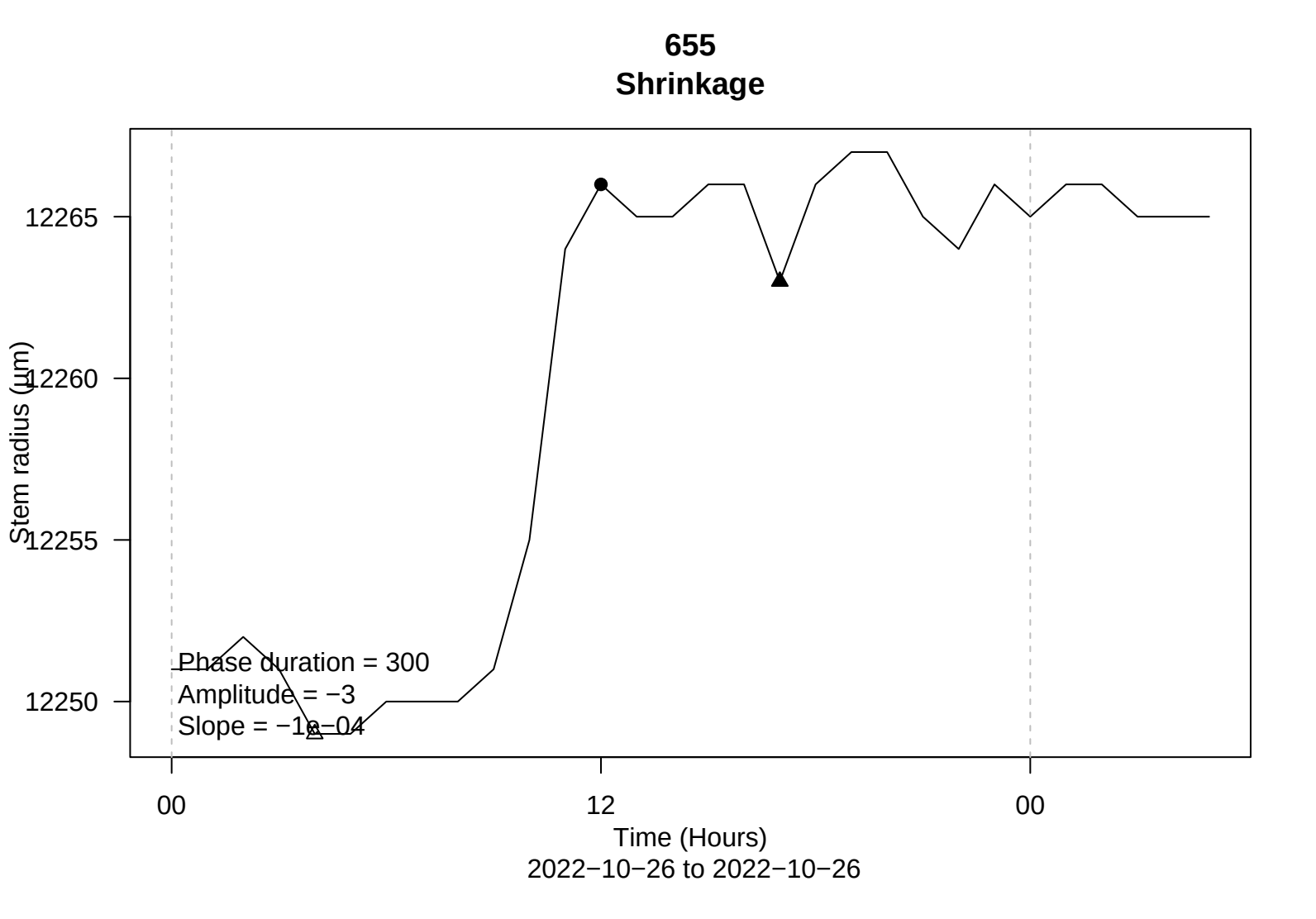

655
Expansion
12100
12000
11900
11800
11700
11600
Stem radius (µm)
Phase duration = 4080
Amplitude = 566
Slope = 0.0024
00
00
00
00
Time (Hours)
2022−10−20 to 2022−10−23

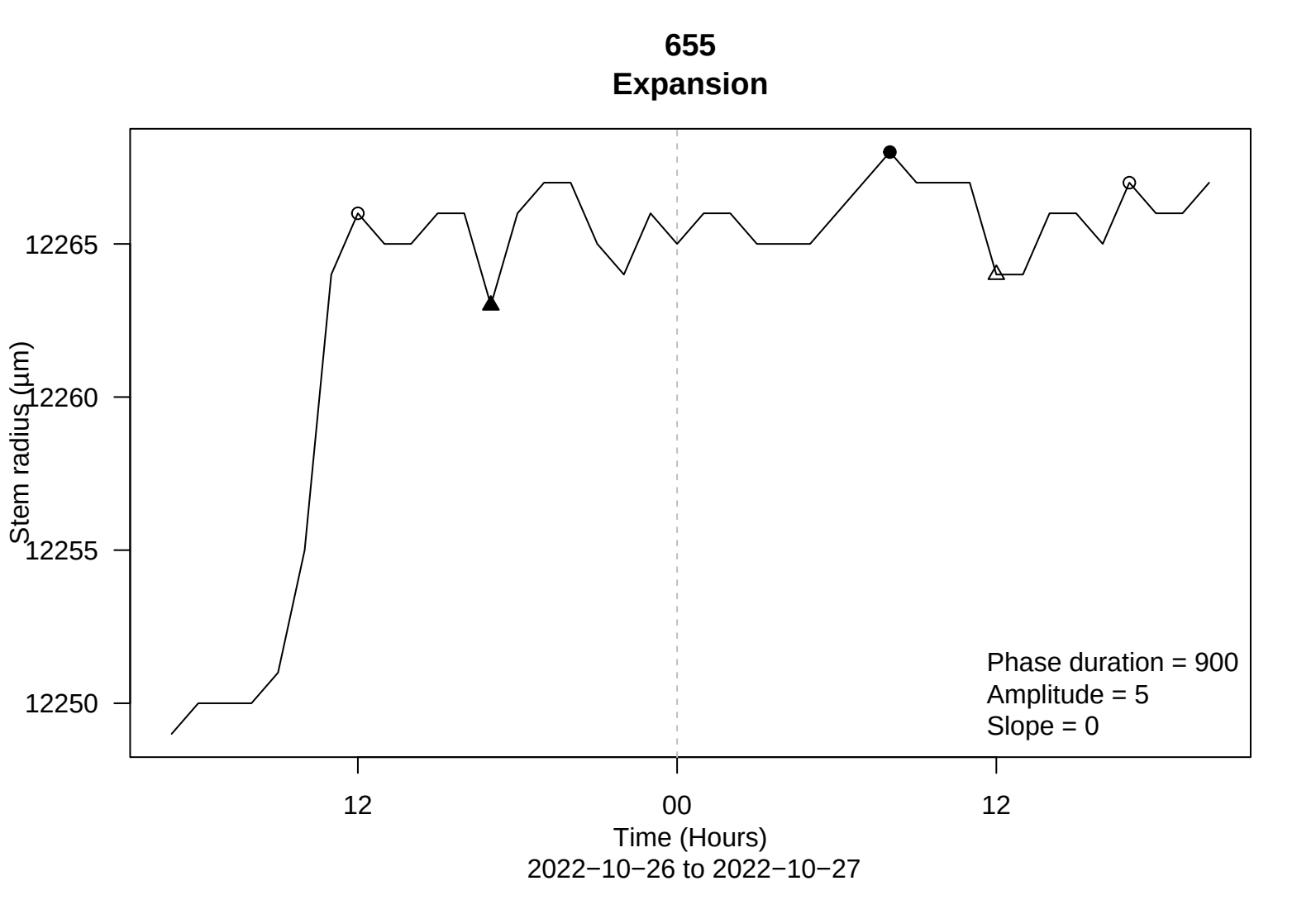

655
Shrinkage
12120
12100
12080
12060
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2022−10−23 to 2022−10−23

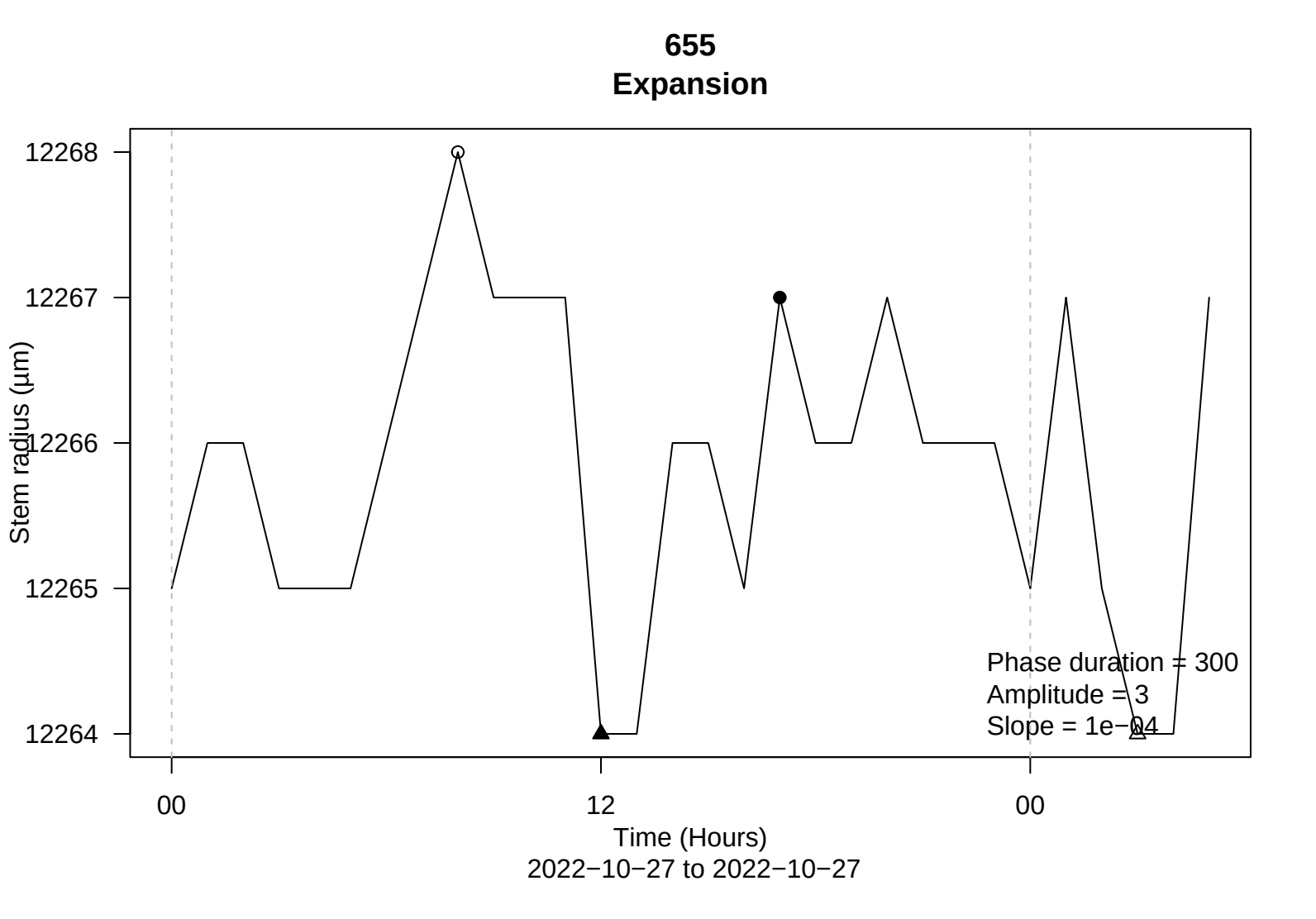

655
Expansion
12250
12200
12150
12100
Stem radius (µm)
Phase duration = 2820
Amplitude = 147
Slope = 0.001
00
00
00
Time (Hours)
2022−10−23 to 2022−10−25

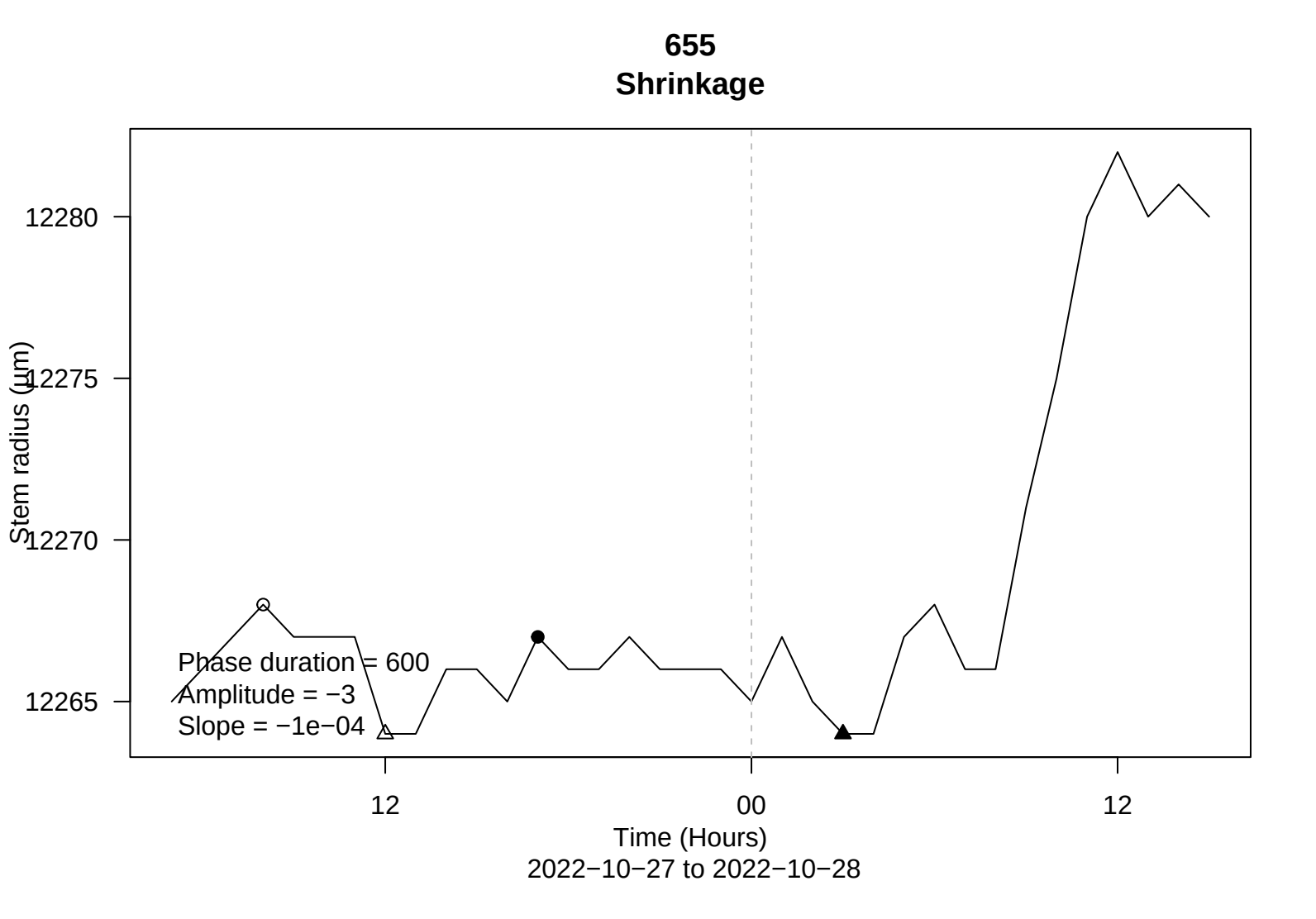

655
Shrinkage
12260
12250
12240
12230
Stem radius (µm)
Phase duration = 480
Amplitude = −4
Slope = 0
12
18
00
06
12
Time (Hours)
2022−10−25 to 2022−10−26

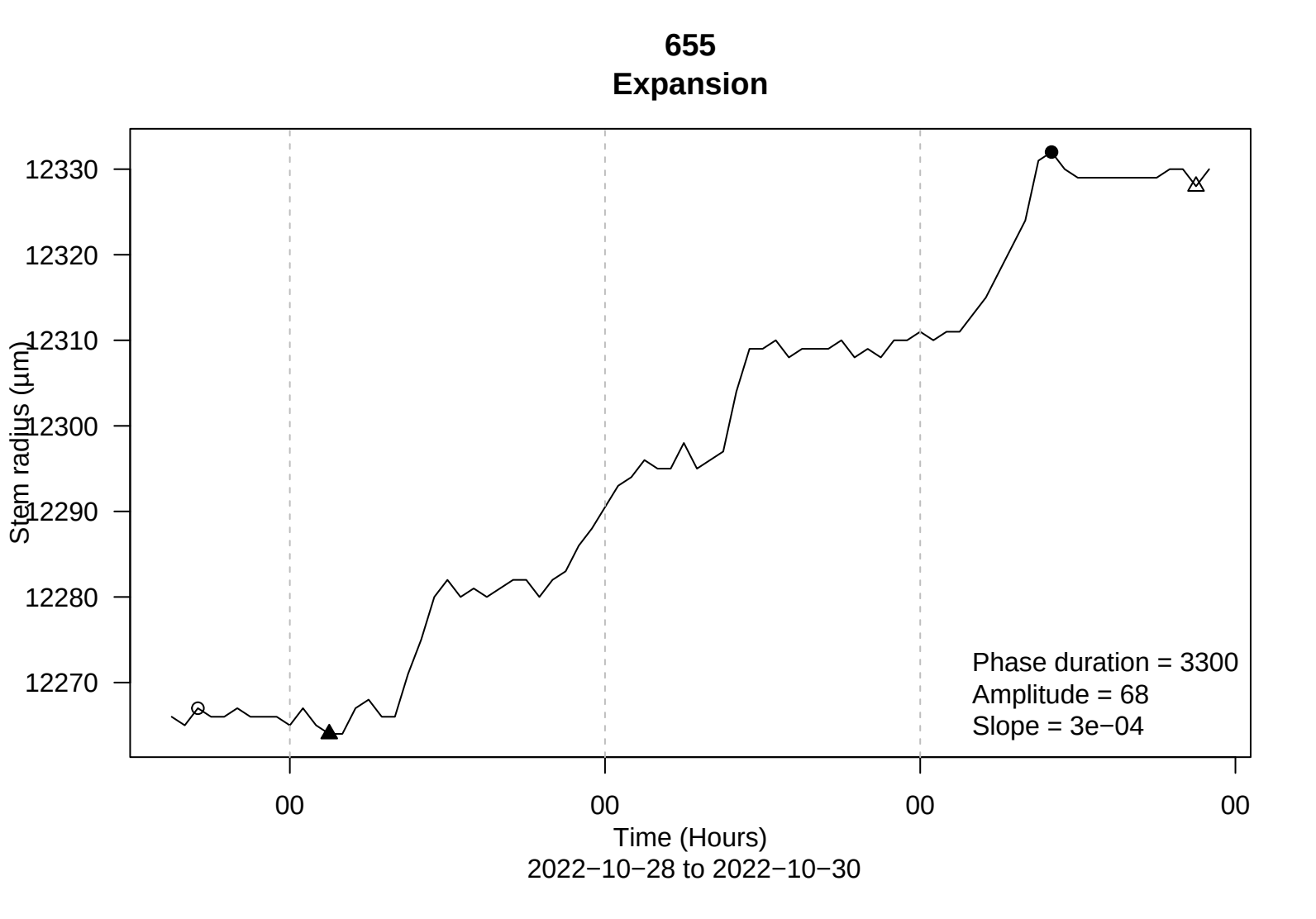

655
Expansion
12265
12260
12255
12250
Stem radius (µm)
Phase duration = 480
Amplitude = 17
Slope = 6e−04
00
12
00
Time (Hours)
2022−10−26 to 2022−10−26

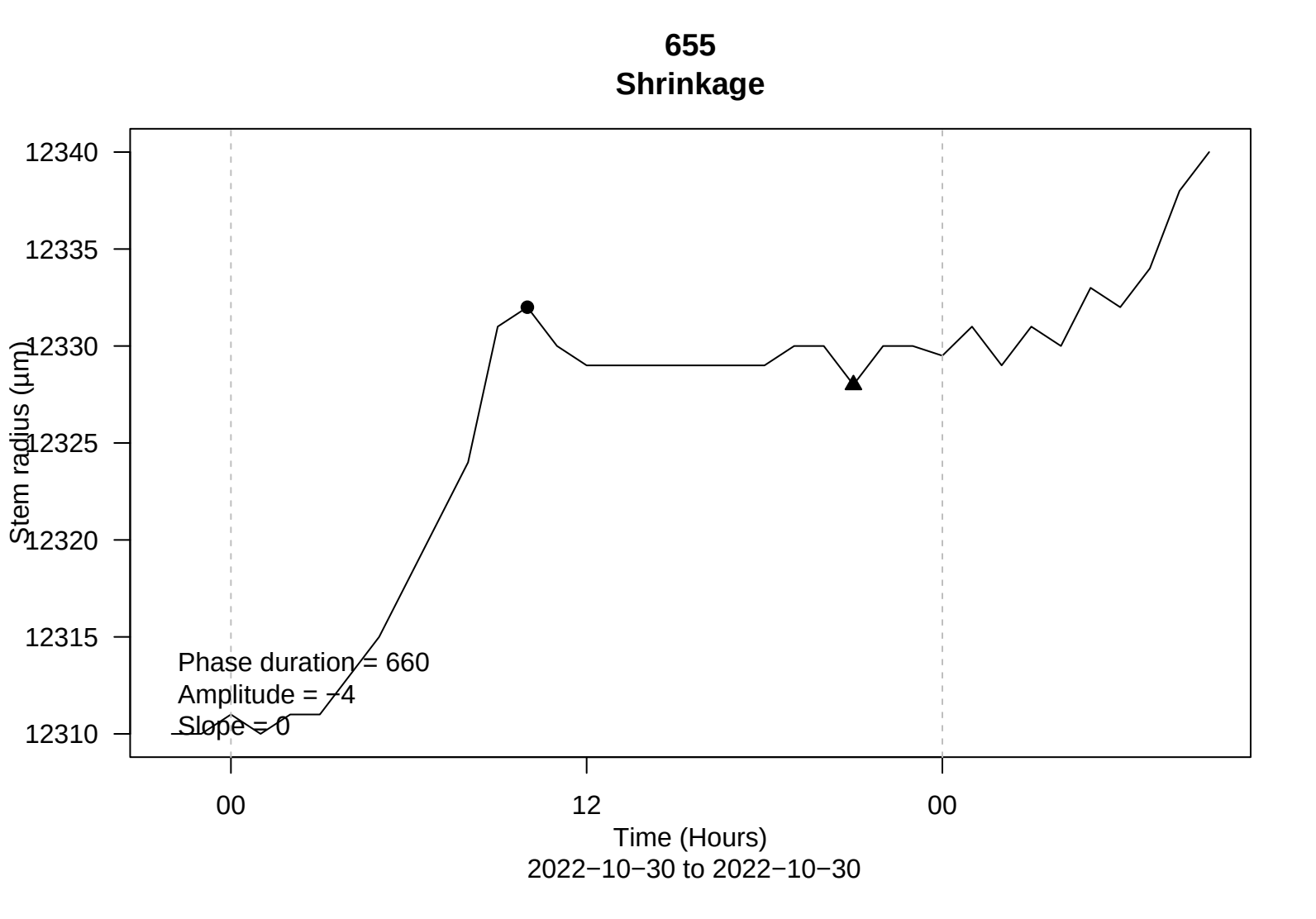

655
Shrinkage
12265
12260
12255
12250
Stem radius (µm)
Phase duration = 300
Amplitude = −3
Slope = −1e−04
00
12
00
Time (Hours)
2022−10−26 to 2022−10−26

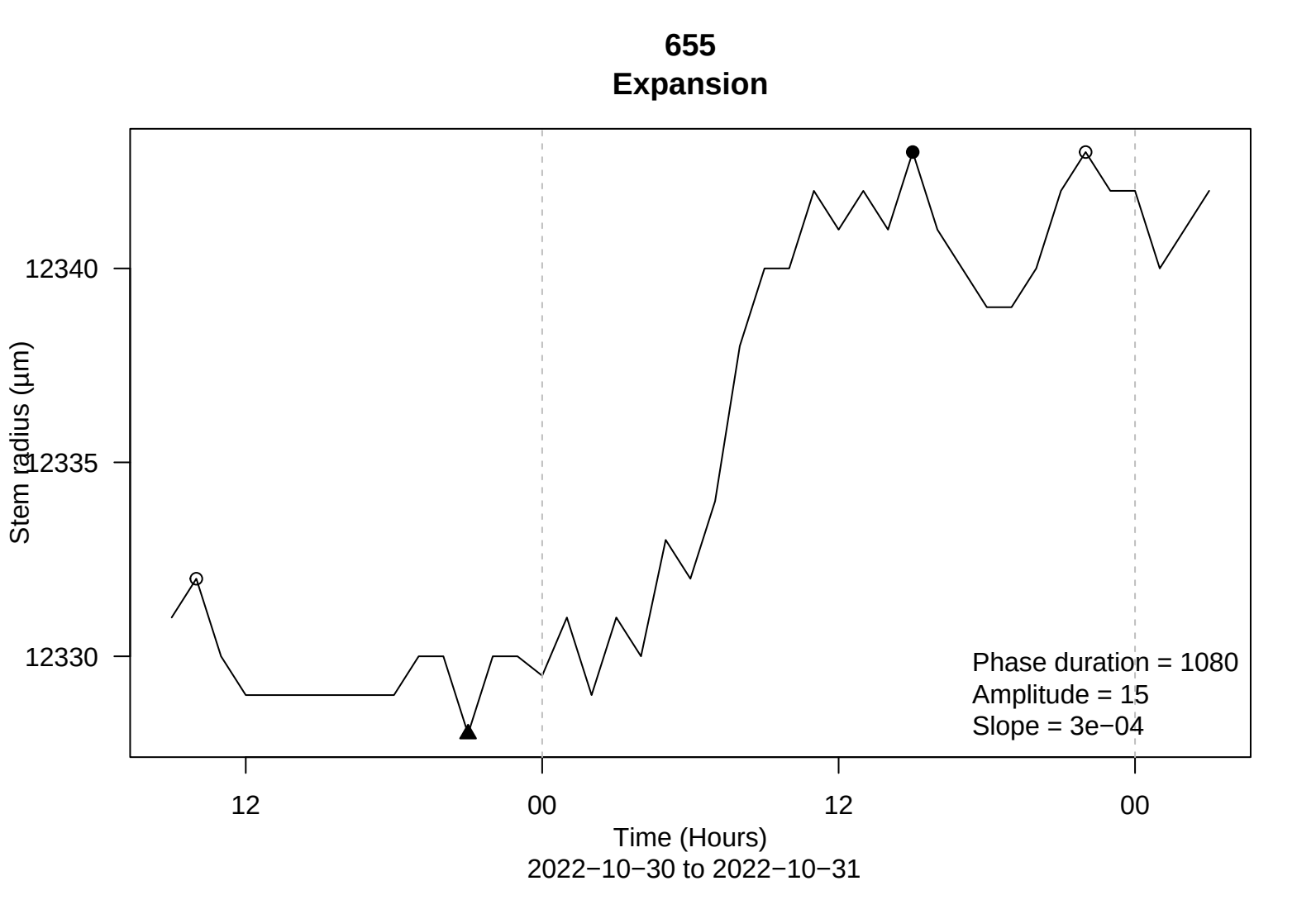

655
Expansion
12265
12260
12255
12250
Stem radius (µm)
Phase duration = 900
Amplitude = 5
Slope = 0
12
00
12
Time (Hours)
2022−10−26 to 2022−10−27

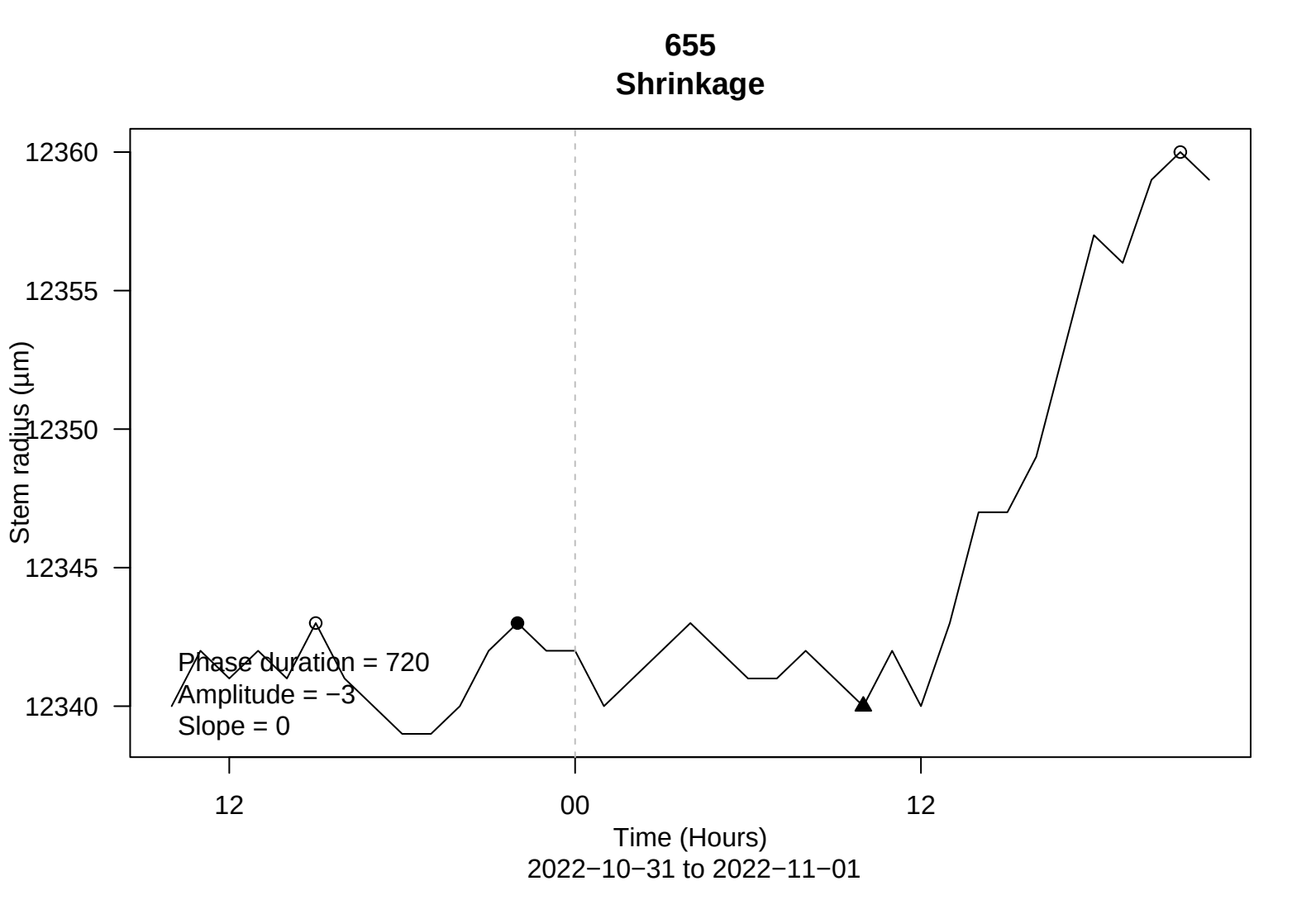

655
Expansion
12268
12267
12266
12265
12264
Stem radius (µm)
Phase duration = 300
Amplitude = 3
Slope = 1e−04
00
12
00
Time (Hours)
2022−10−27 to 2022−10−27

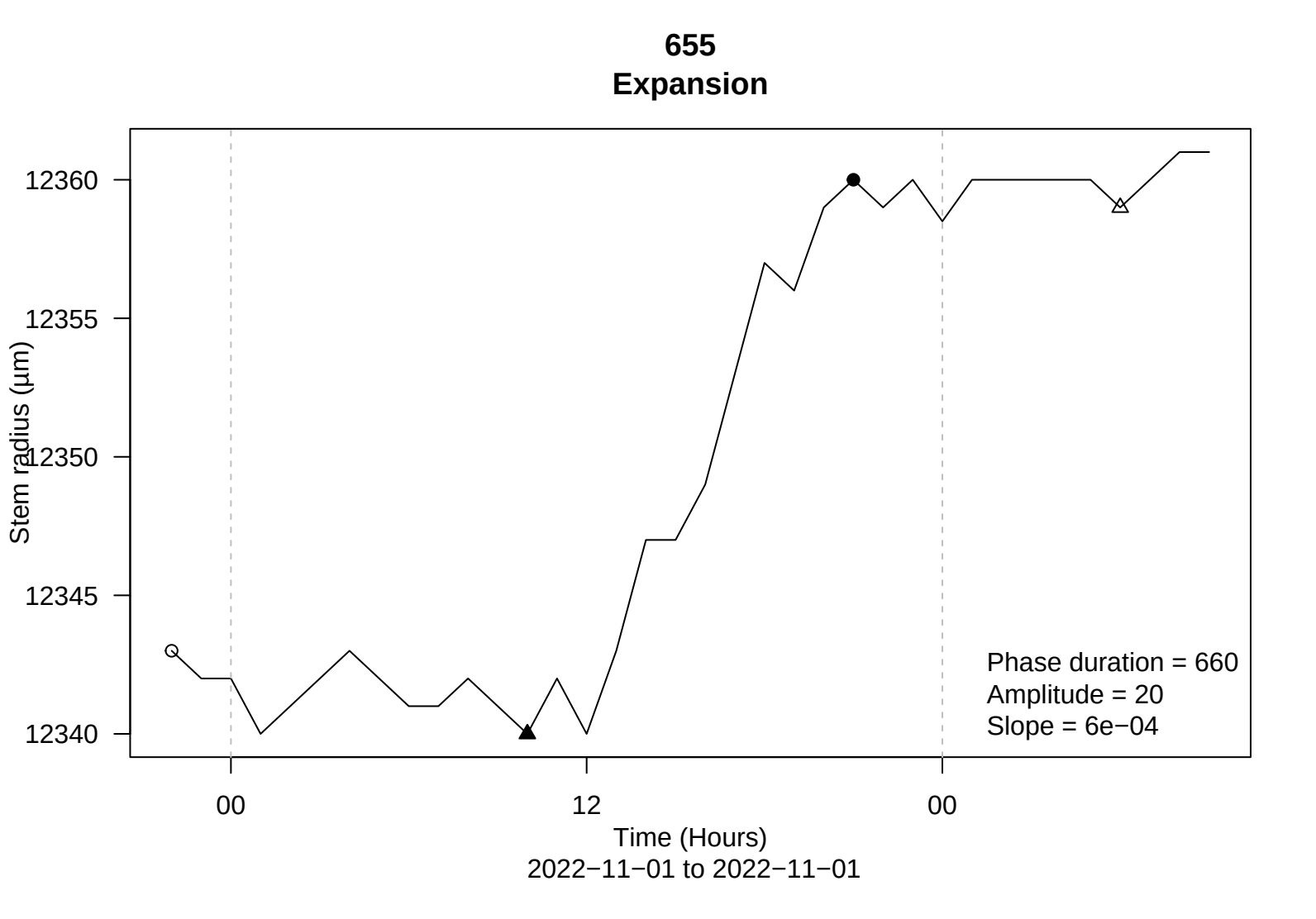

655
Shrinkage
12280
12275
12270
12265
Stem radius (µm)
Phase duration = 600
Amplitude = −3
Slope = −1e−04
12
00
12
Time (Hours)
2022−10−27 to 2022−10−28

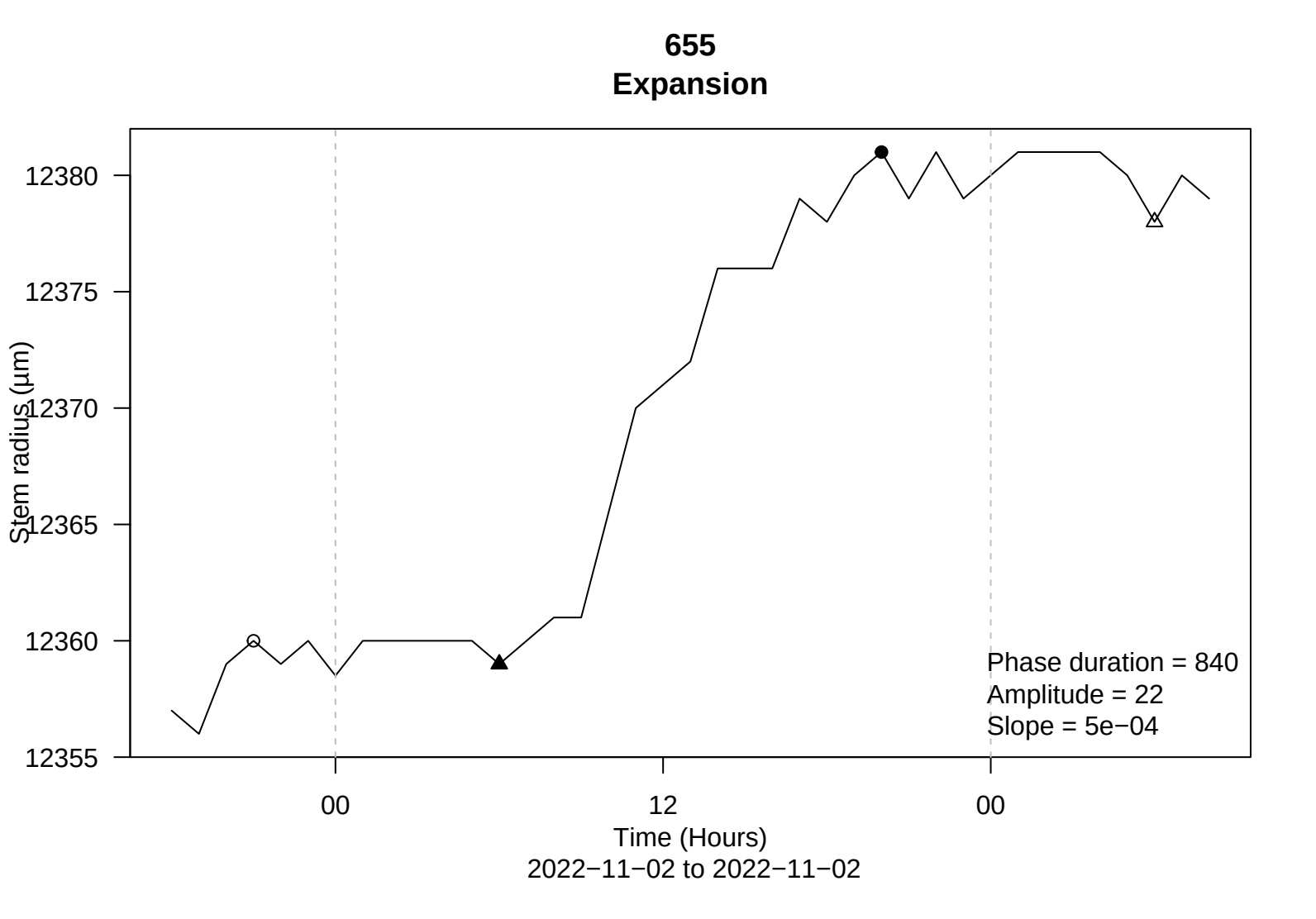

655
Expansion
12330
12320
12310
12300
12290
12280
12270
Stem radius (µm)
00
00
00
00
Time (Hours)
2022−10−28 to 2022−10−30
Phase duration = 3300
Amplitude = 68
Slope = 3e−04

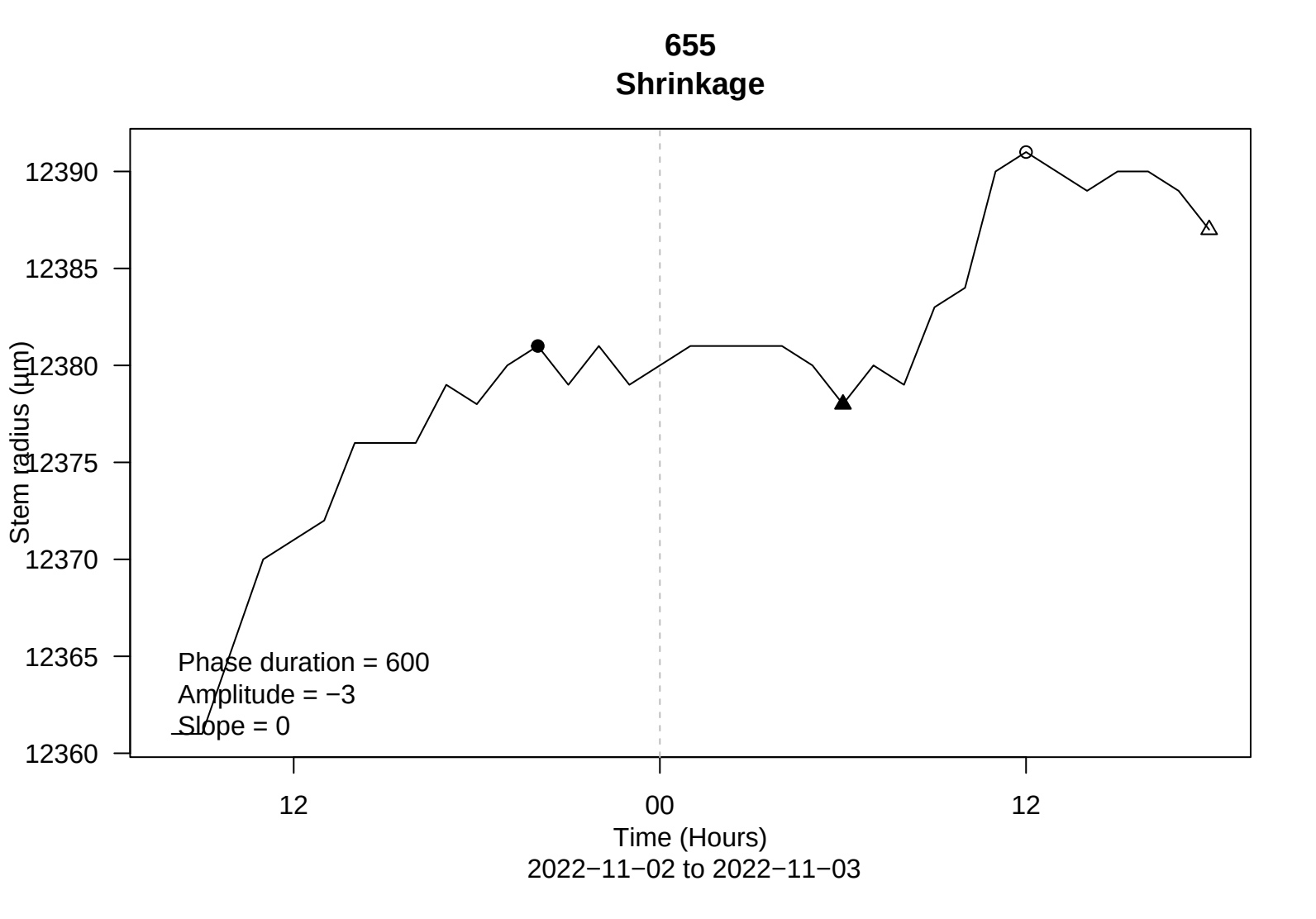

655
Shrinkage
12340
12335
12330
12325
12320
12315
12310
Stem radius (µm)
Phase duration = 660
Amplitude = −4
Slope = 0
00
12
00
Time (Hours)
2022−10−30 to 2022−10−30

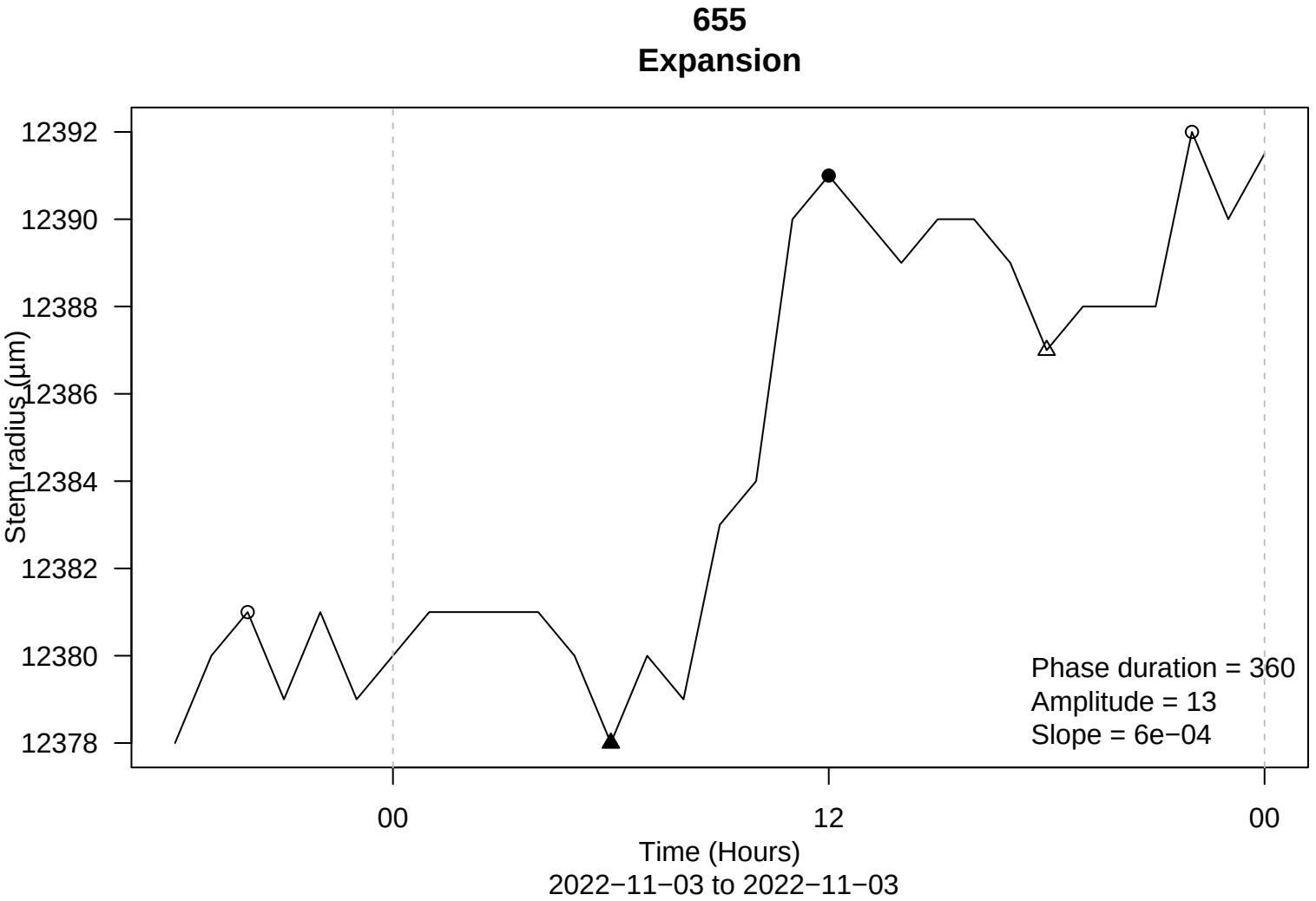

655
Expansion
12340
12335
12330
Stem radius (µm)
Phase duration = 1080
Amplitude = 15
Slope = 3e−04
12
00
12
00
Time (Hours)
2022−10−30 to 2022−10−31

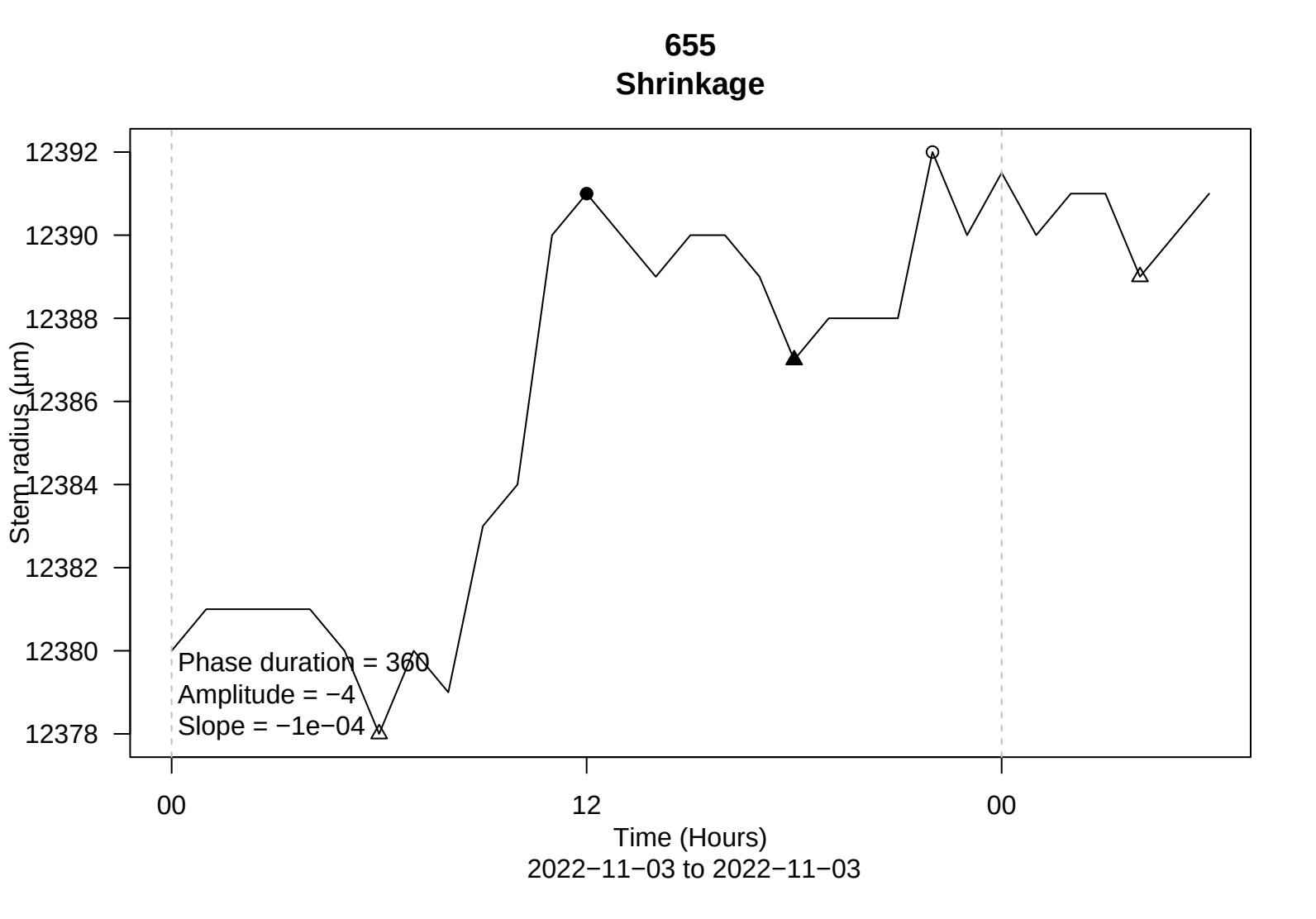

655
Shrinkage
12360
12355
12350
12345
12340
Stem radius (µm)
Phase duration = 720
Amplitude = −3
Slope = 0
12
00
12
Time (Hours)
2022−10−31 to 2022−11−01

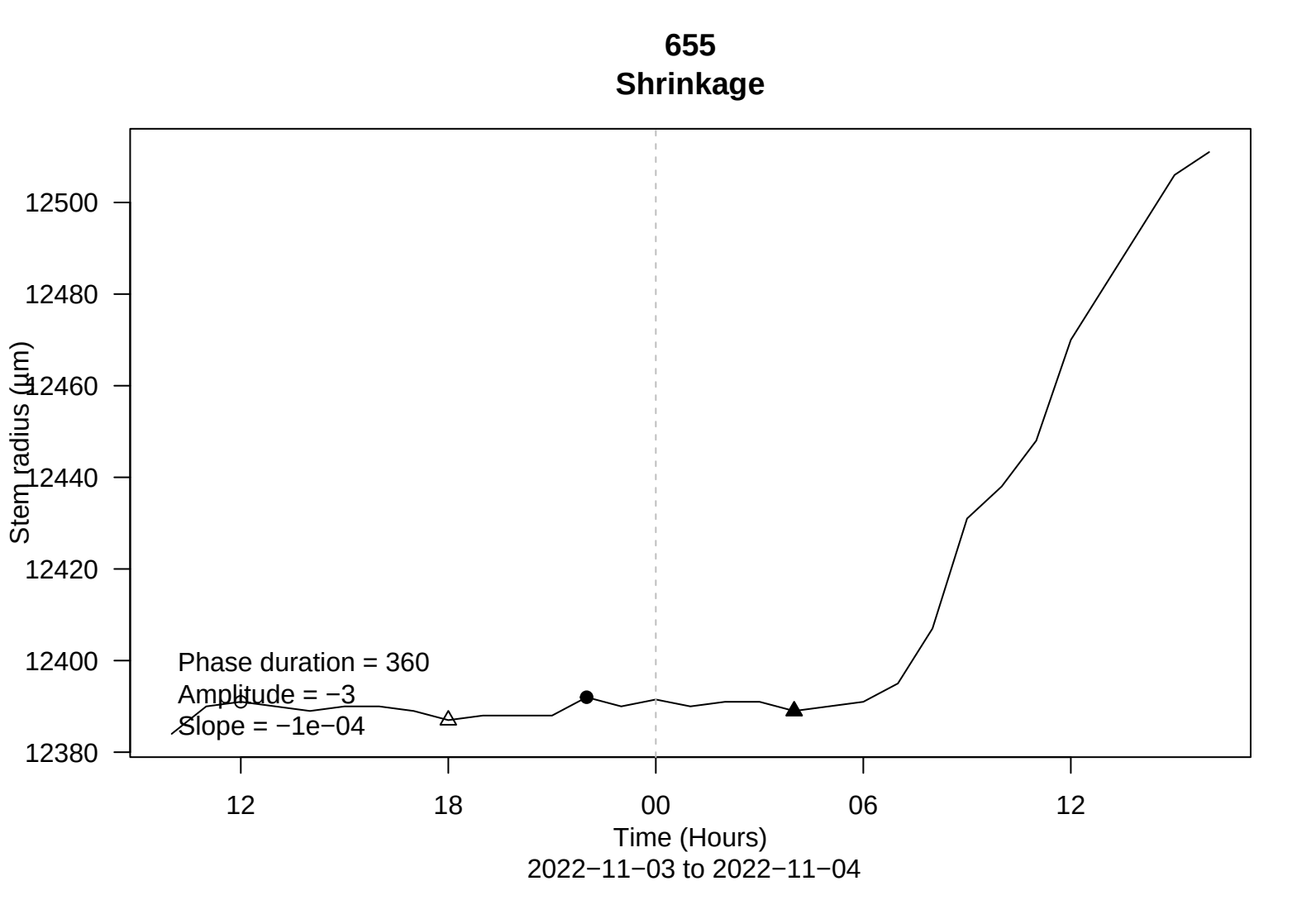

655
Expansion
12360
12355
12350
12345
12340
Stem radius (µm)
Phase duration = 660
Amplitude = 20
Slope = 6e−04
00
12
00
Time (Hours)
2022−11−01 to 2022−11−01

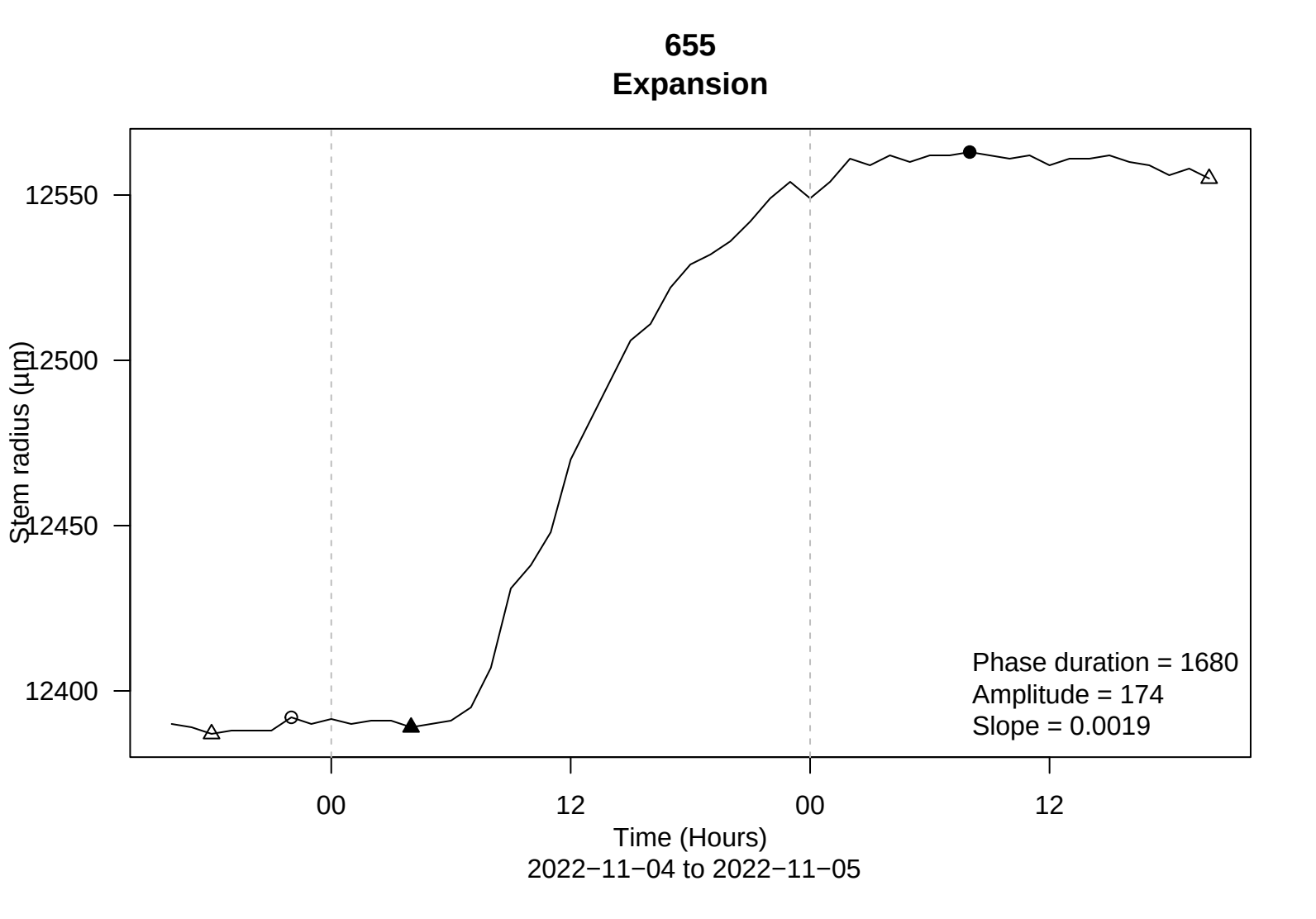

655
Expansion
12380
12375
12370
12365
12360
12355
Stem radius (µm)
Phase duration = 840
Amplitude = 22
Slope = 5e−04
00
12
00
Time (Hours)
2022−11−02 to 2022−11−02

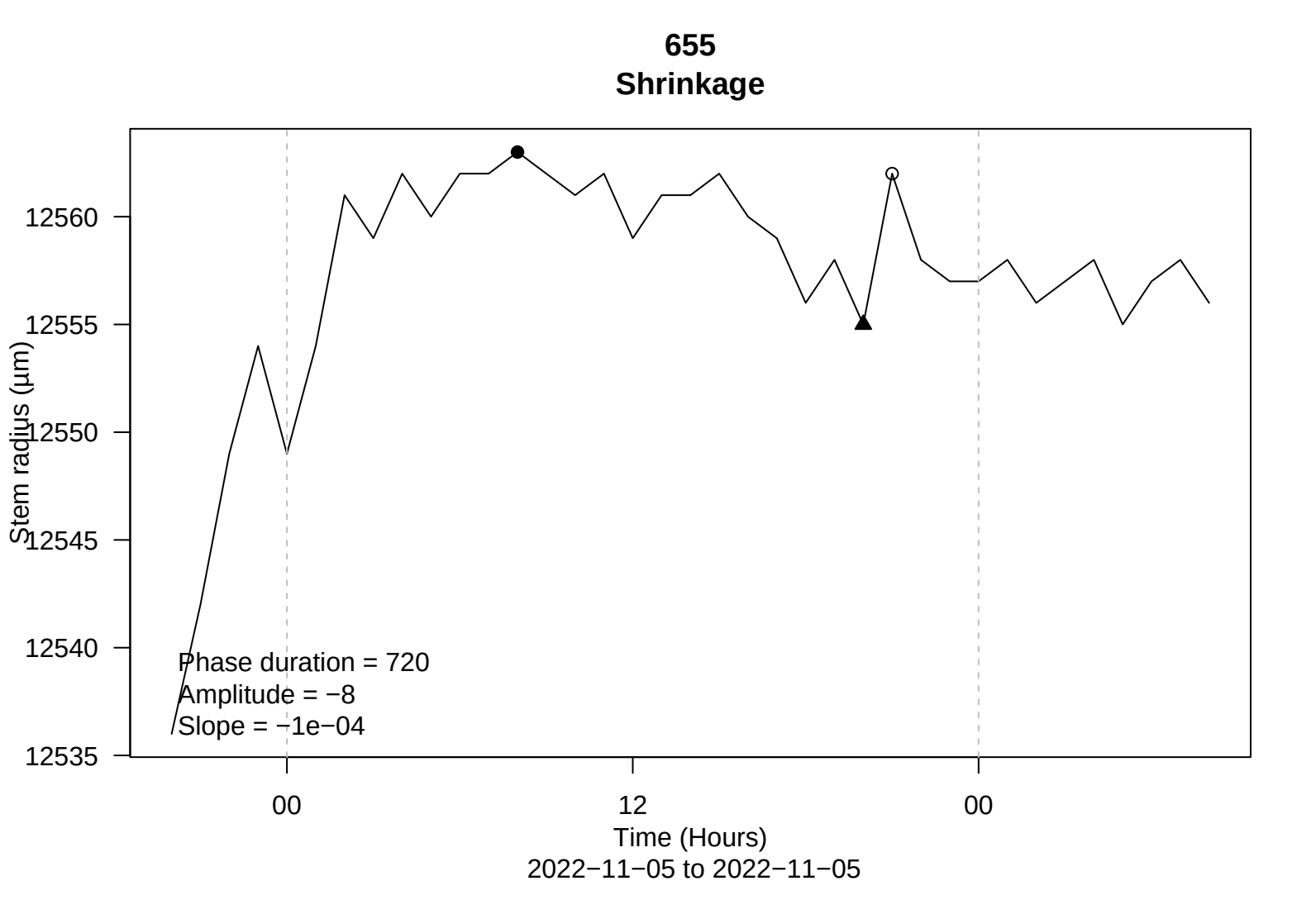

655
Shrinkage
12390
12385
12380
12375
12370
12365
12360
Stem radius (µm)
Phase duration = 600
Amplitude = −3
Slope = 0
12
00
12
Time (Hours)
2022−11−02 to 2022−11−03

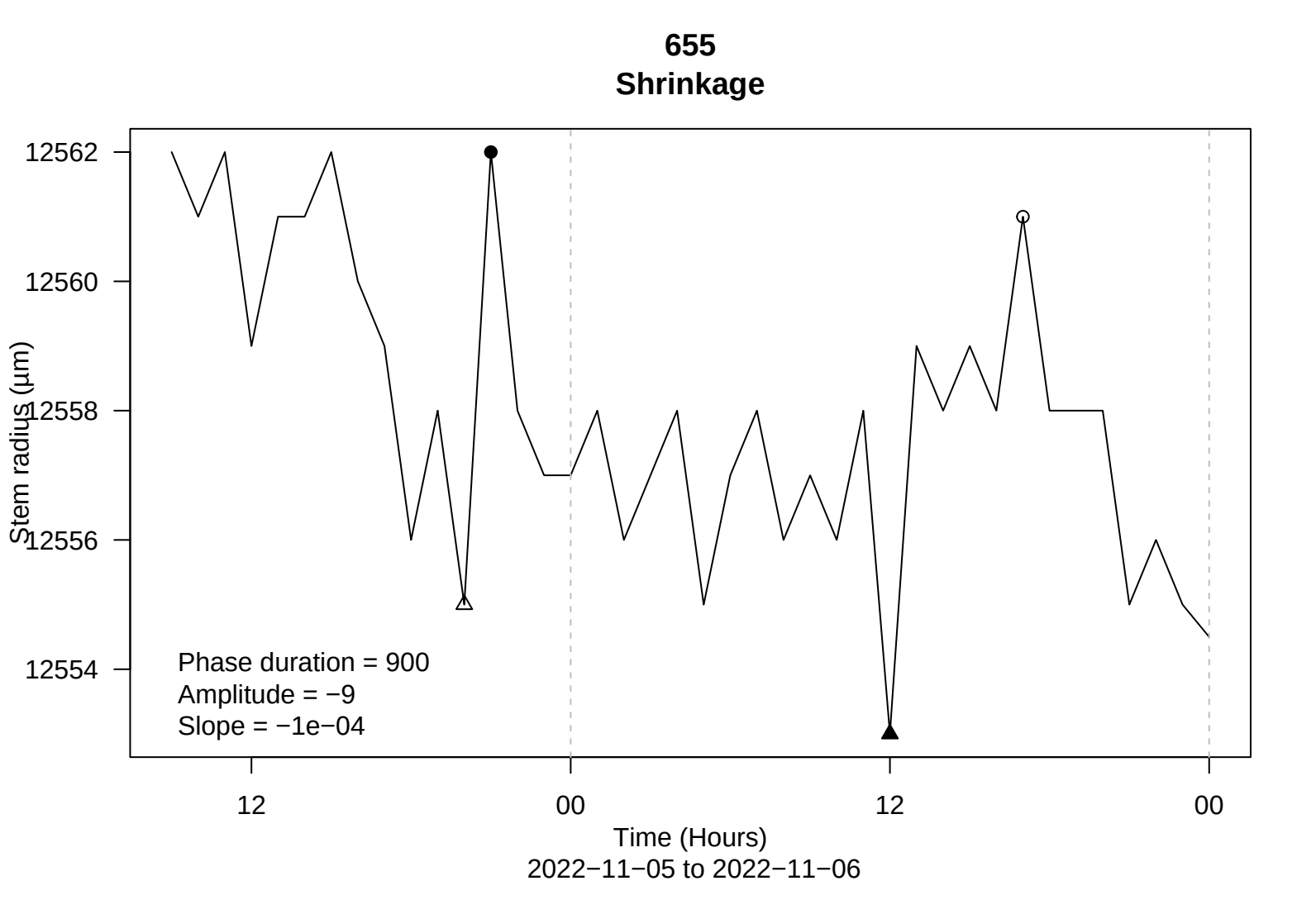

655
Expansion
12392
12390
12388
12386
12384
12382
12380
12378
Stem radius (µm)
Phase duration = 360
Amplitude = 13
Slope = 6e−04
00
12
00
Time (Hours)
2022−11−03 to 2022−11−03

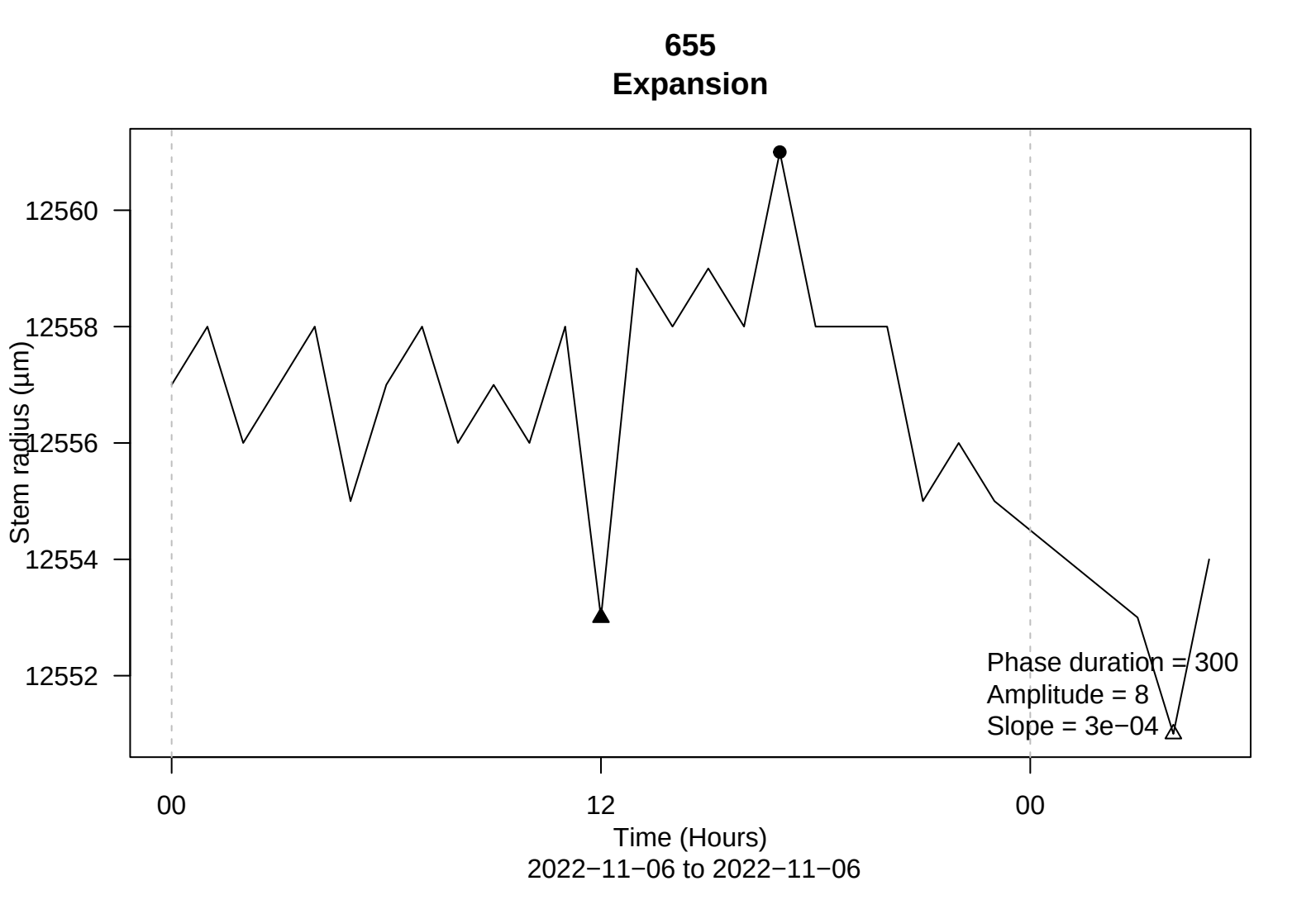

655
Shrinkage
12392
12390
12388
12386
12384
12382
12380
12378
Stem radius (µm)
Phase duration = 360
Amplitude = −4
Slope = −1e−04
00
12
00
Time (Hours)
2022−11−03 to 2022−11−03

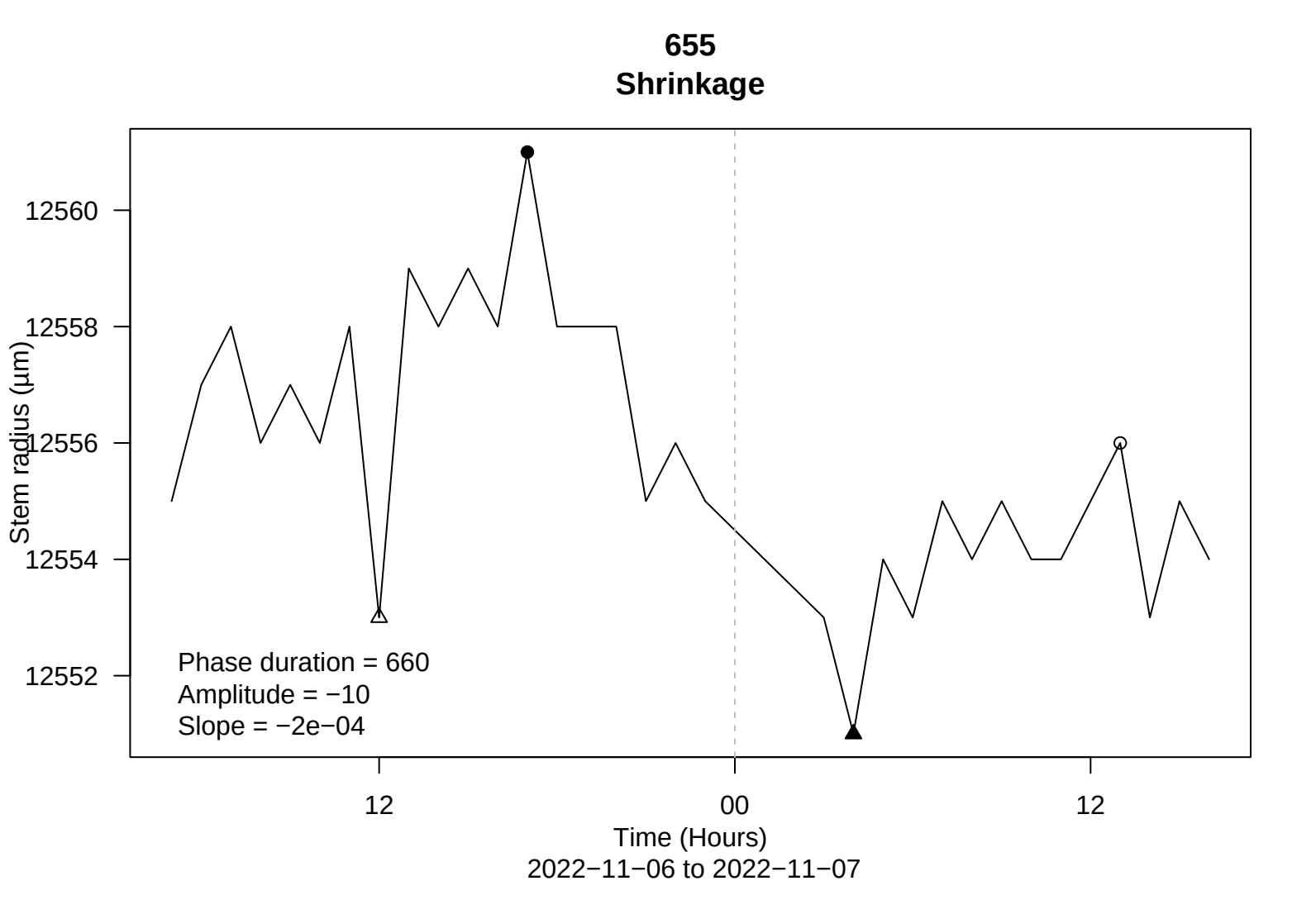

655
Shrinkage
12500
12480
12460
12440
12420
12400
12380
Stem radius (µm)
Phase duration = 360
Amplitude = −3
Slope = −1e−04
12
18
00
06
12
Time (Hours)
2022−11−03 to 2022−11−04

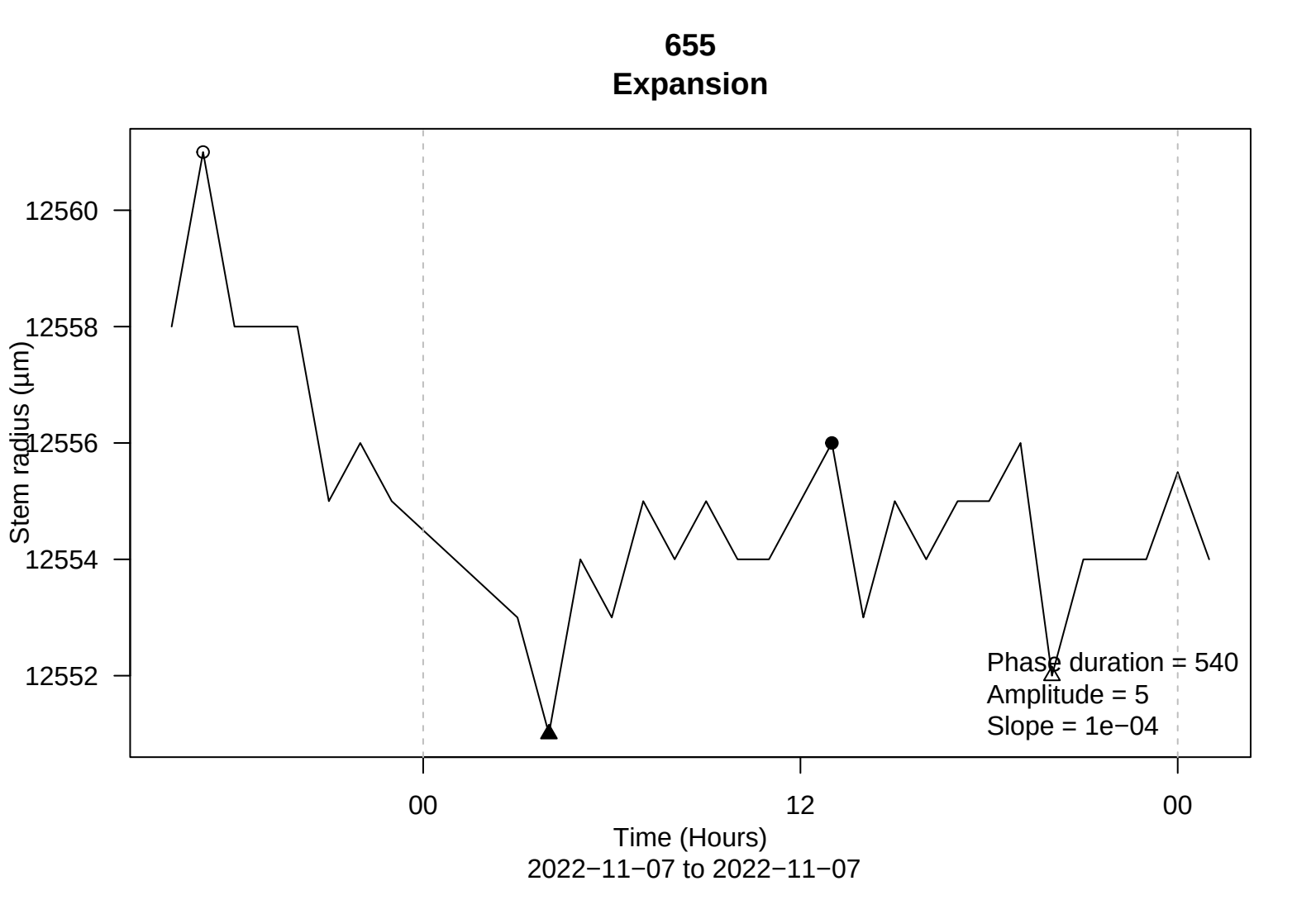

655
Expansion
12550
12500
12450
12400
Stem radius (µm)
Phase duration = 1680
Amplitude = 174
Slope = 0.0019
00
12
00
12
Time (Hours)
2022−11−04 to 2022−11−05

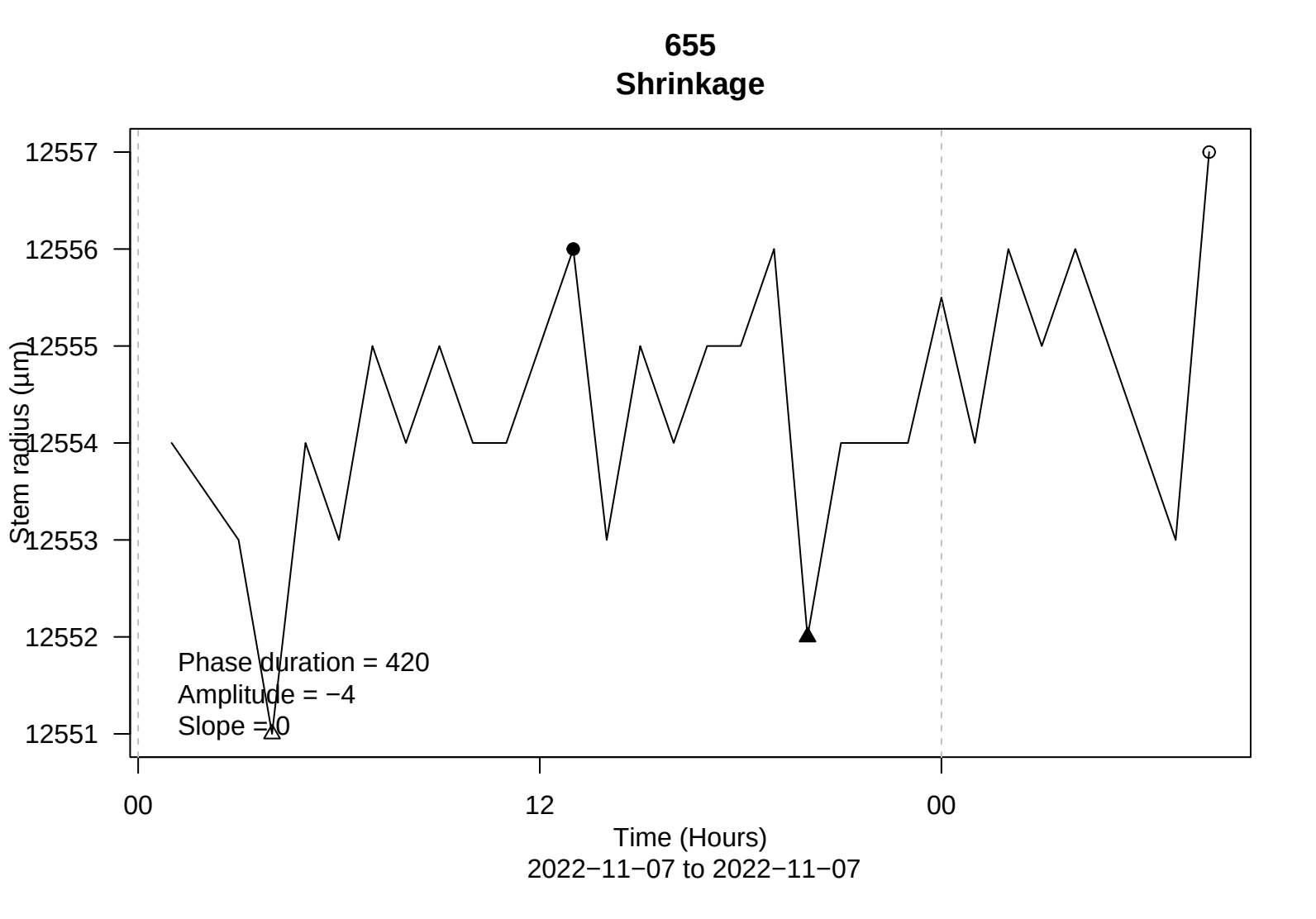

655
Shrinkage
12560
12555
12550
12545
12540
12535
Stem radius (µm)
Phase duration = 720
Amplitude = −8
Slope = −1e−04
00
12
00
Time (Hours)
2022−11−05 to 2022−11−05

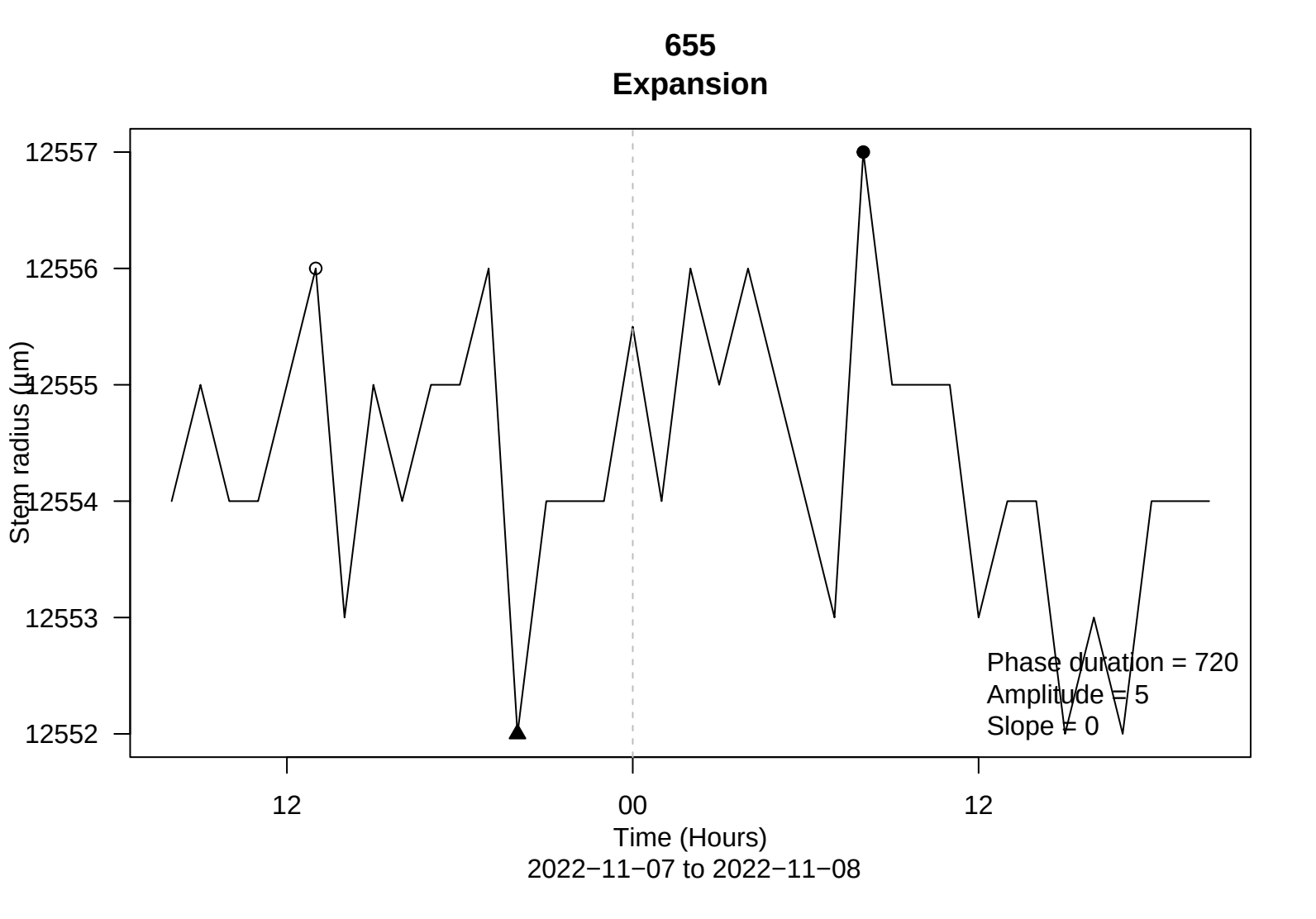

655
Shrinkage
12562
12560
12558
12556
12554
Stem radius (µm)
Phase duration = 900
Amplitude = −9
Slope = −1e−04
12
00
12
00
Time (Hours)
2022−11−05 to 2022−11−06

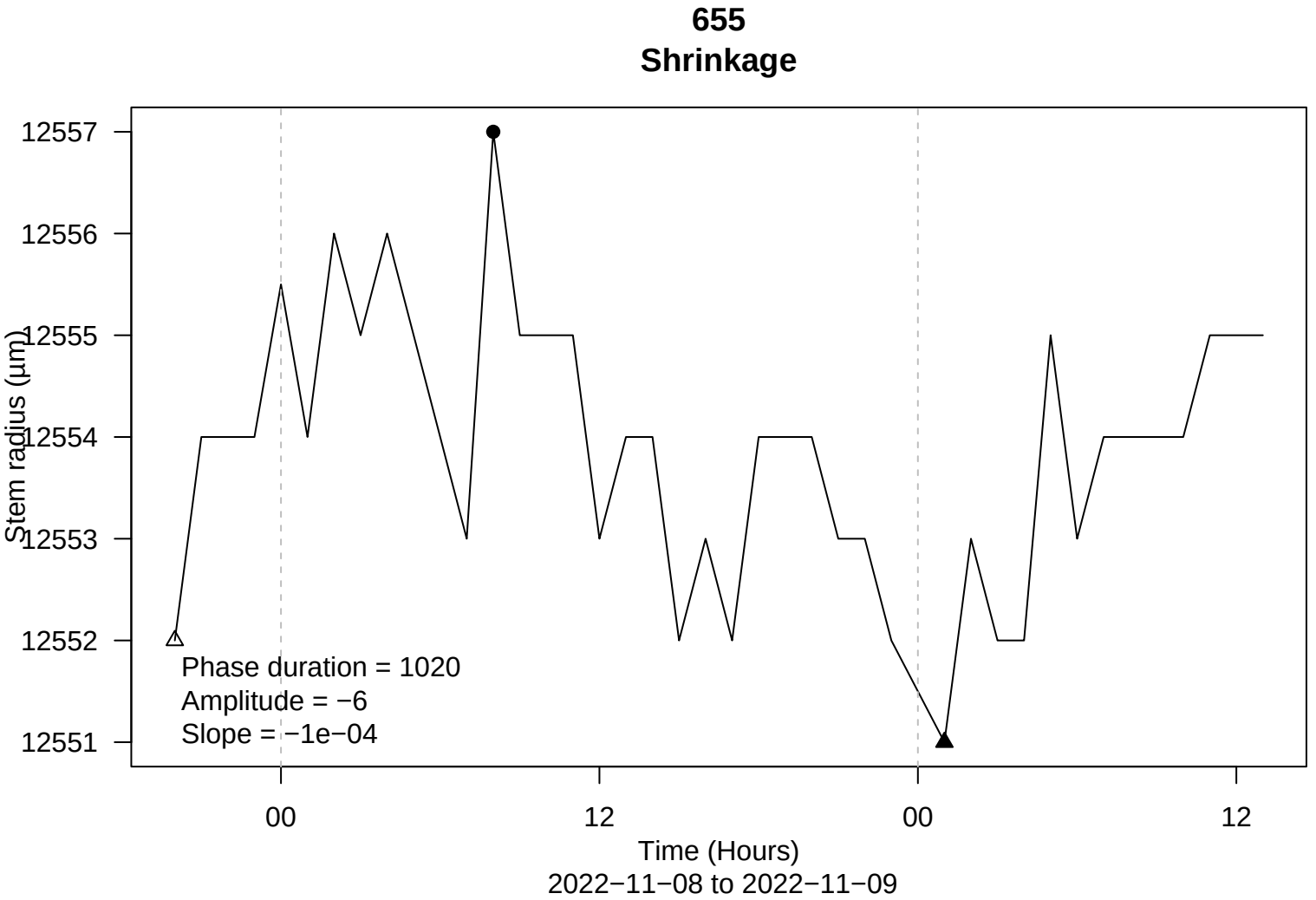

655
Expansion
12560
12558
12556
12554
12552
Stem radius (µm)
Phase duration = 300
Amplitude = 8
Slope = 3e−04
00
12
00
Time (Hours)
2022−11−06 to 2022−11−06

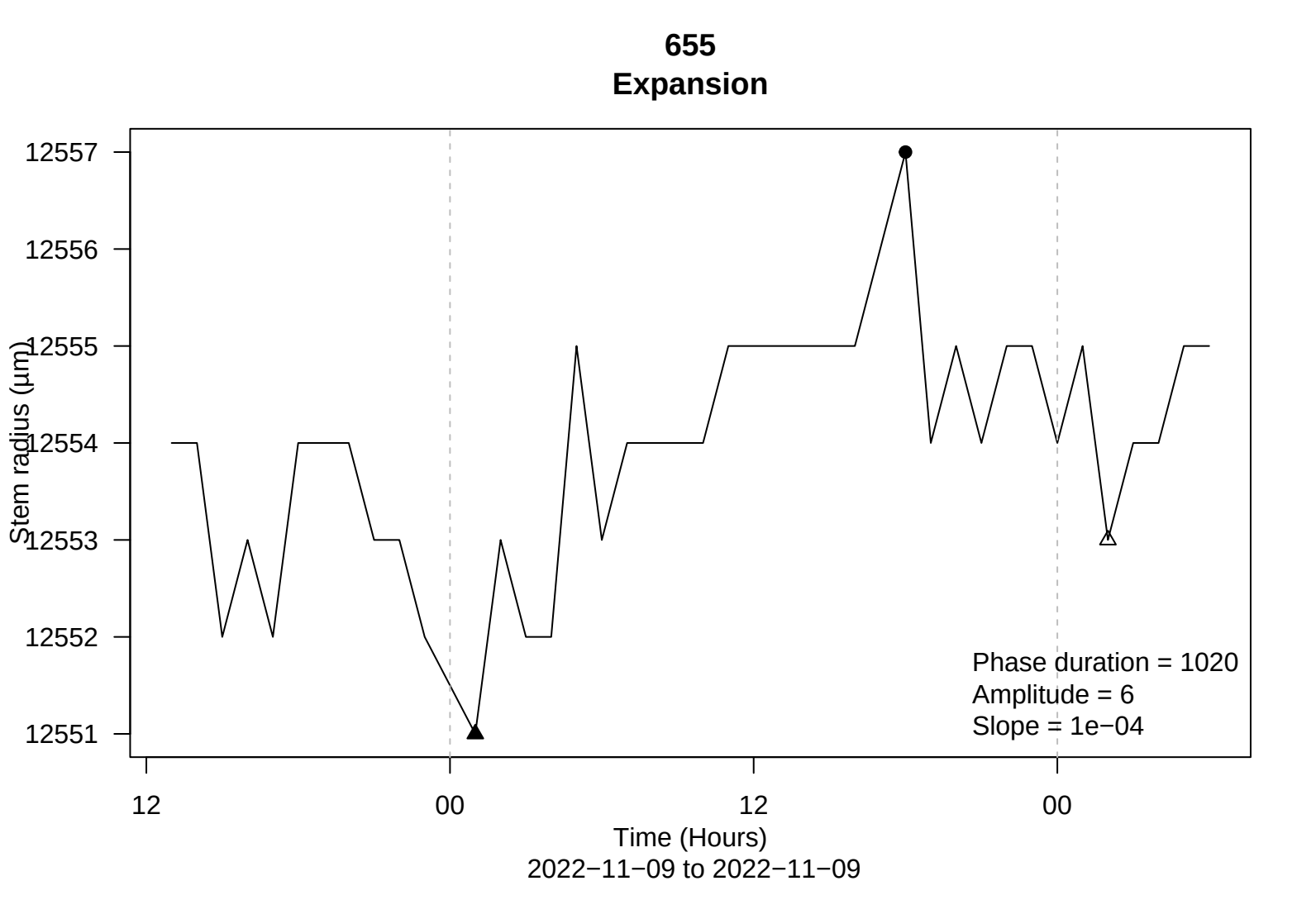

655
Shrinkage
12560
12558
12556
12554
12552
Stem radius (µm)
Phase duration = 660
Amplitude = −10
Slope = −2e−04
12
00
12
Time (Hours)
2022−11−06 to 2022−11−07

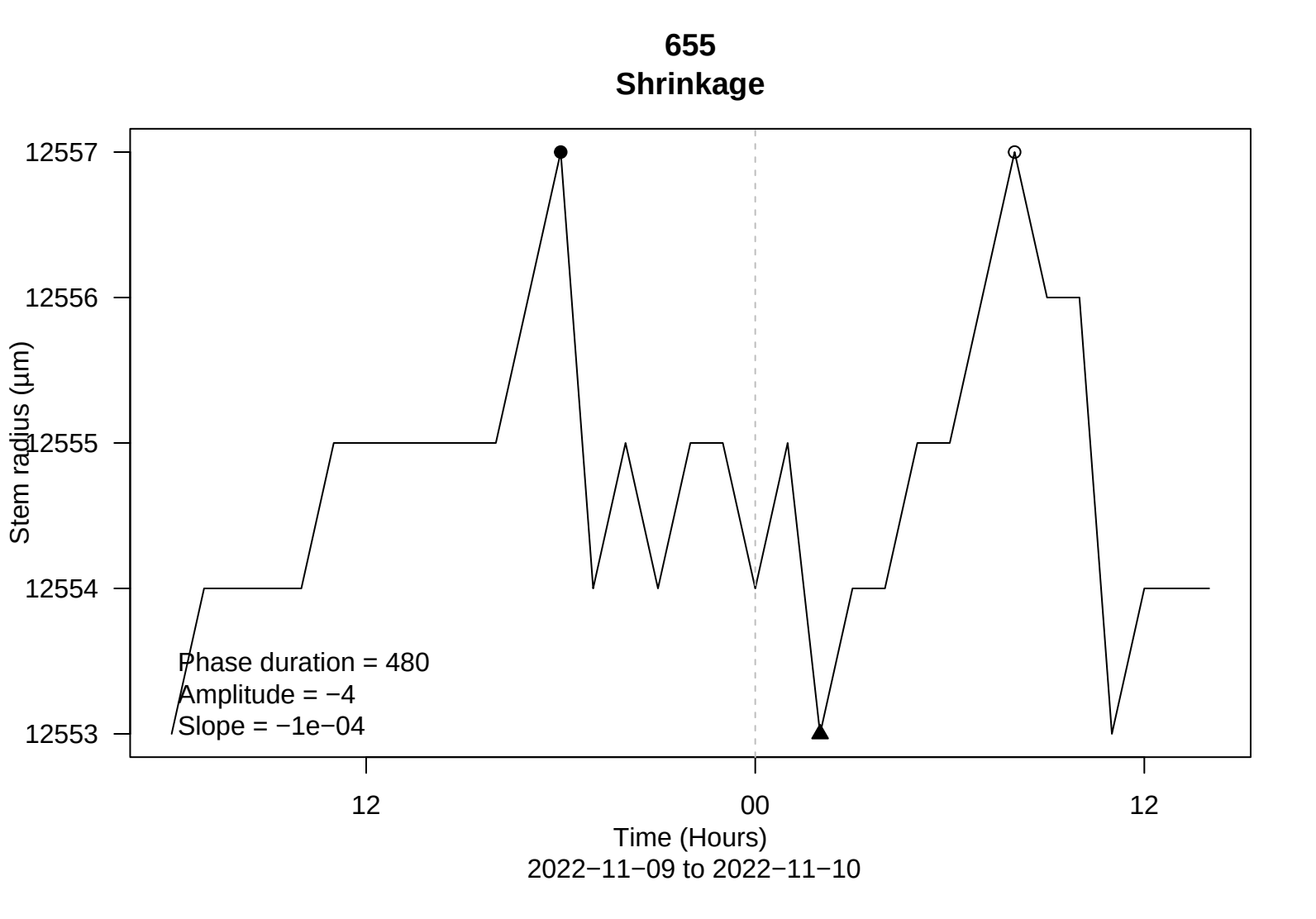

655
Expansion
12560
12558
12556
12554
12552
Stem radius (µm)
Phase duration = 540
Amplitude = 5
Slope = 1e−04
00
12
00
Time (Hours)
2022−11−07 to 2022−11−07

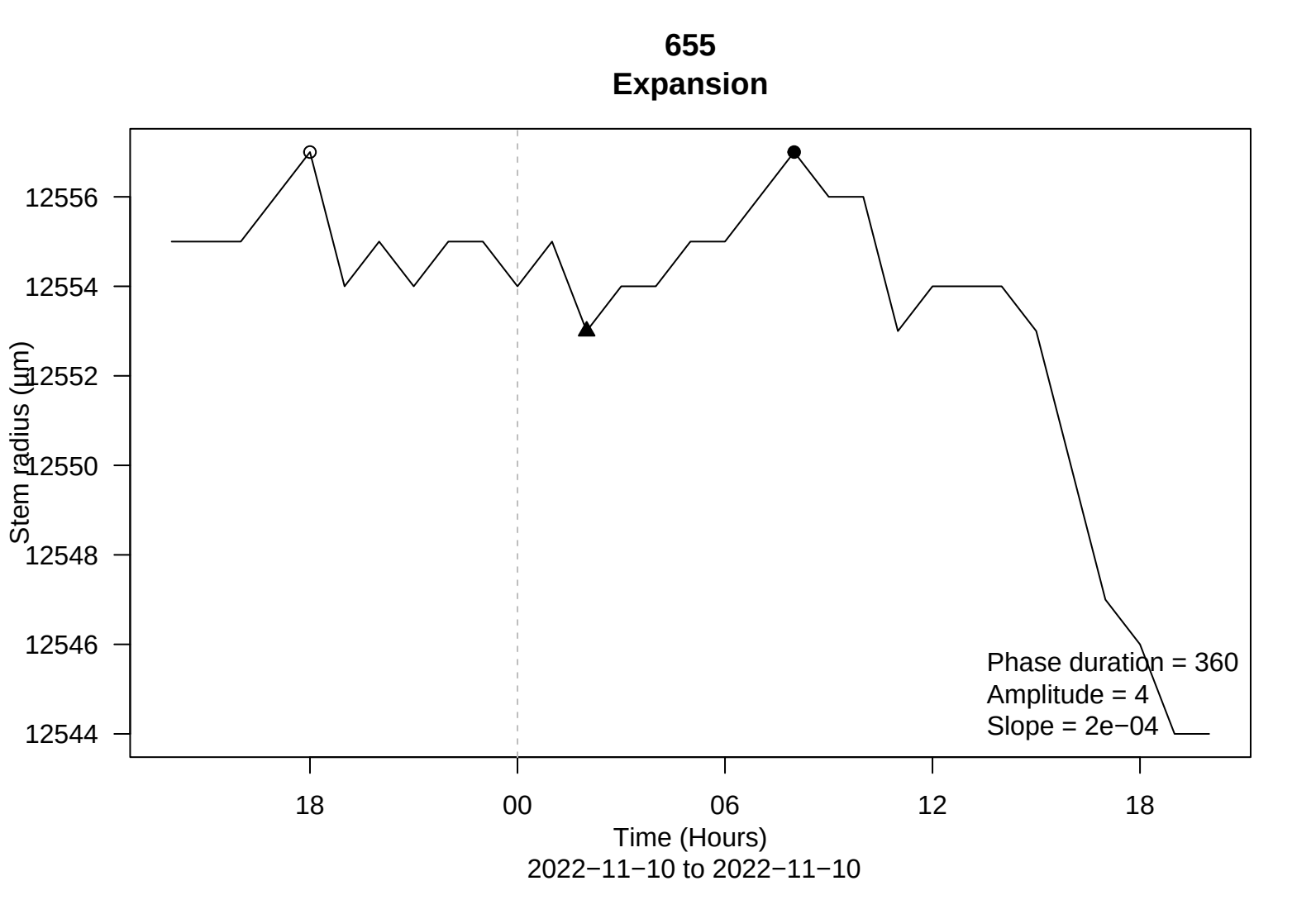

655
Shrinkage
12557
12556
12555
12554
12553
12552
12551
Stem radius (µm)
Phase duration = 420
Amplitude = −4
Slope = 0
00
12
00
Time (Hours)
2022−11−07 to 2022−11−07

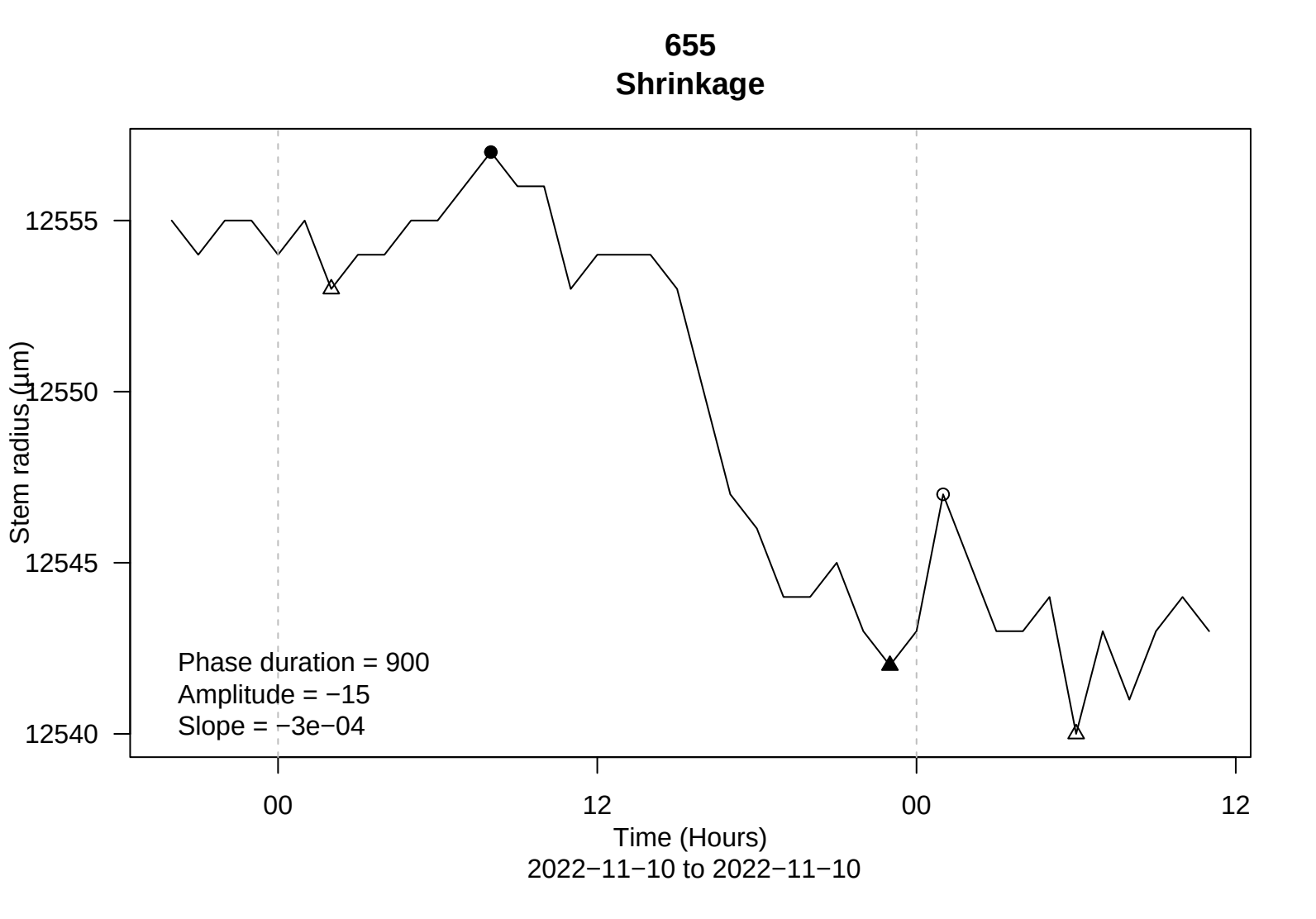

655
Expansion
12557
12556
12555
12554
12553
12552
Stem radius (µm)
Phase duration = 720
Amplitude = 5
Slope = 0
12
00
12
Time (Hours)
2022−11−07 to 2022−11−08

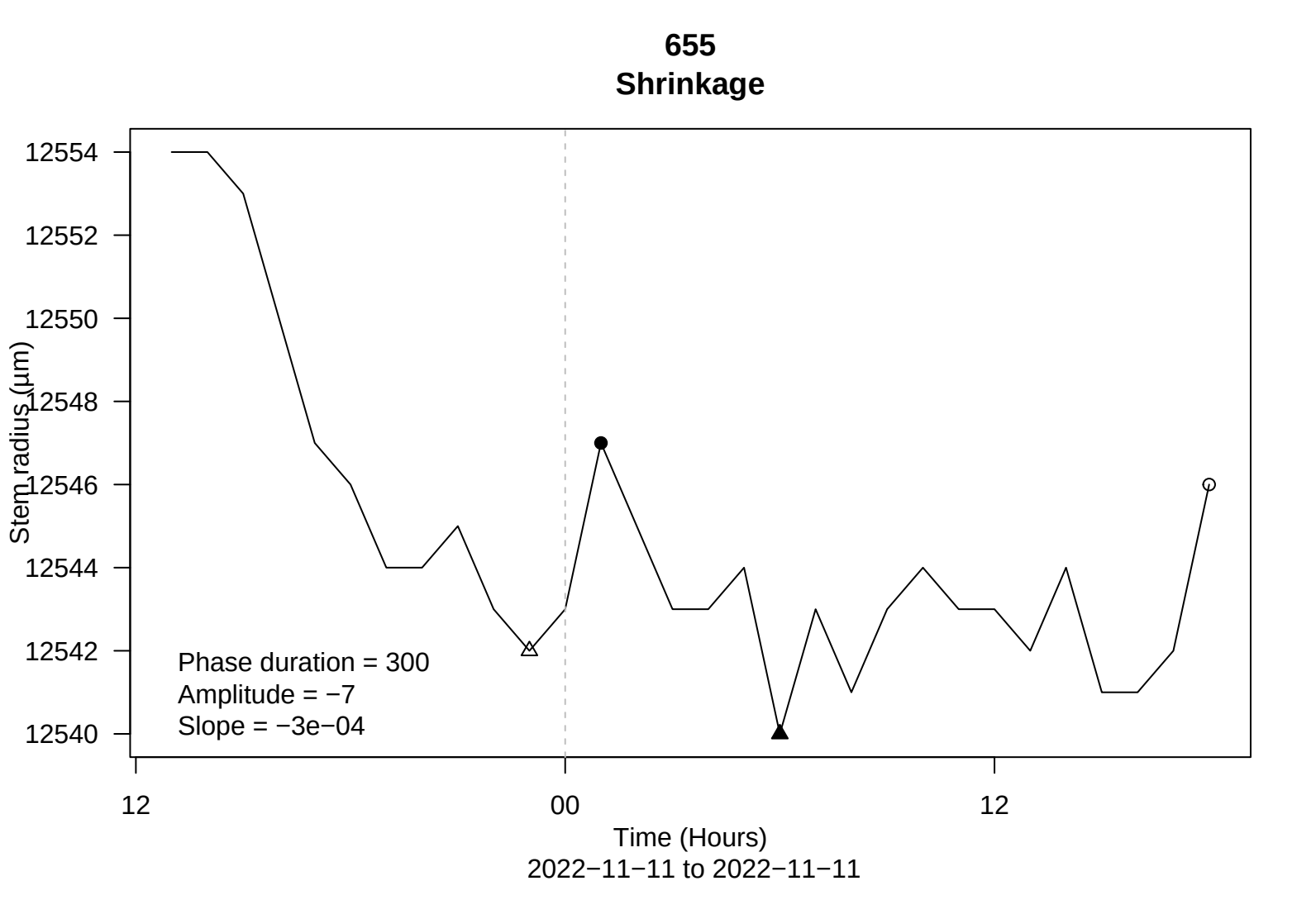

655
Shrinkage
12557
12556
12555
12554
12553
12552
12551
Stem radius (µm)
Phase duration = 1020
Amplitude = −6
Slope = −1e−04
00
12
00
12
Time (Hours)
2022−11−08 to 2022−11−09

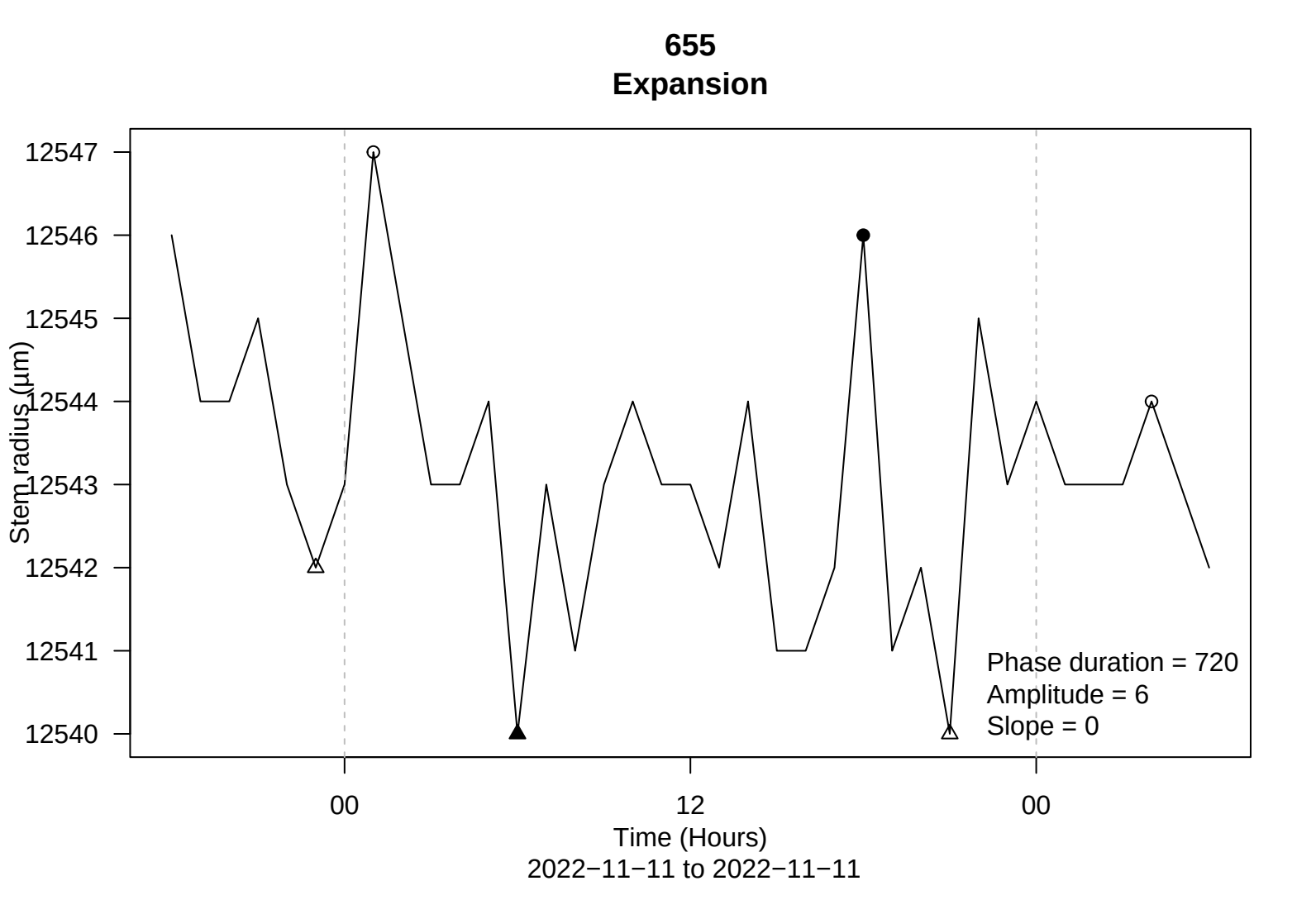

655
Expansion
12557
12556
12555
12554
12553
12552
12551
Stem radius (µm)
Phase duration = 1020
Amplitude = 6
Slope = 1e−04
12
00
12
00
Time (Hours)
2022−11−09 to 2022−11−09

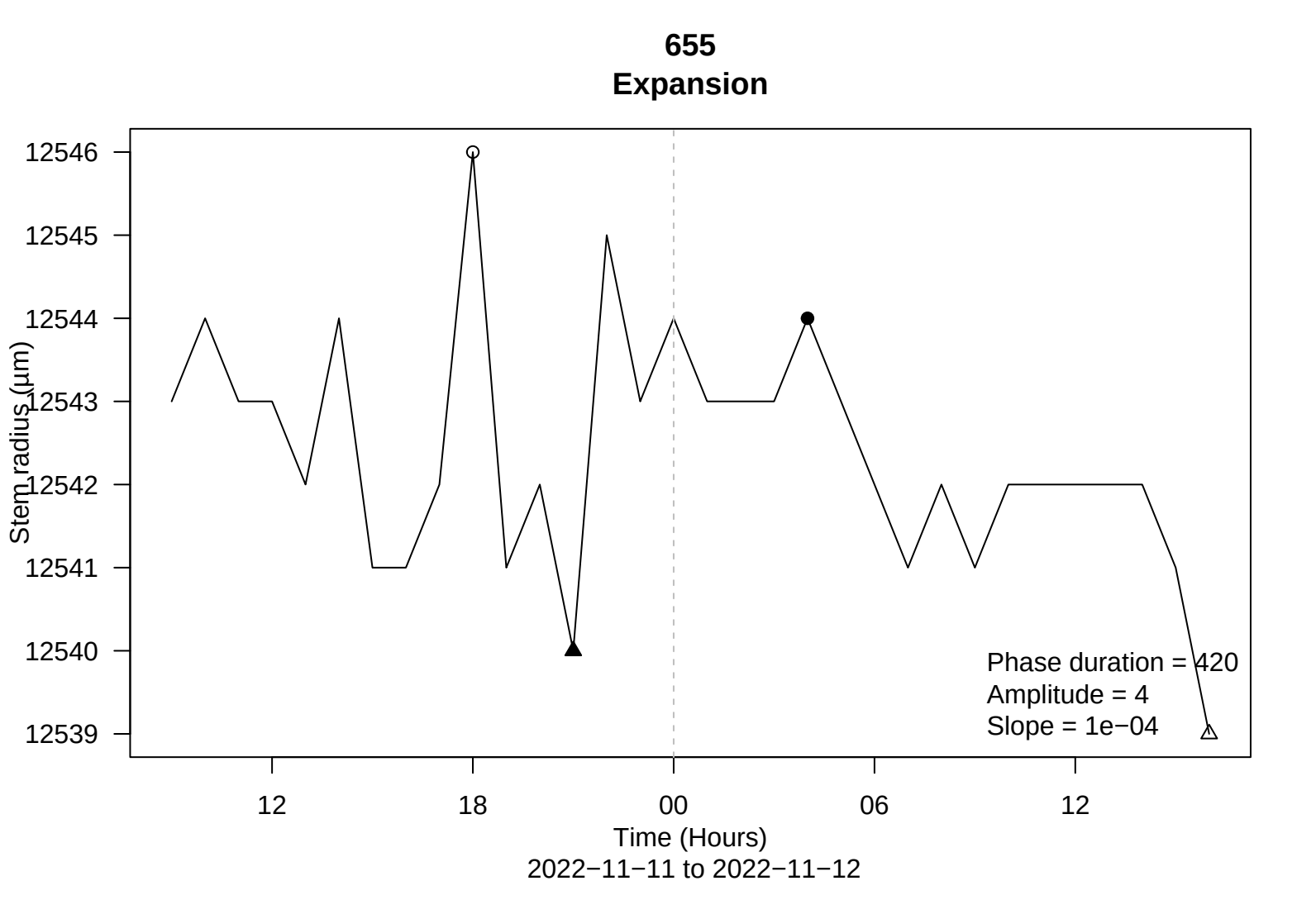

655
Shrinkage
12557
12556
12555
12554
12553
Stem radius (µm)
Phase duration = 480
Amplitude = −4
Slope = −1e−04
12
00
12
Time (Hours)
2022−11−09 to 2022−11−10

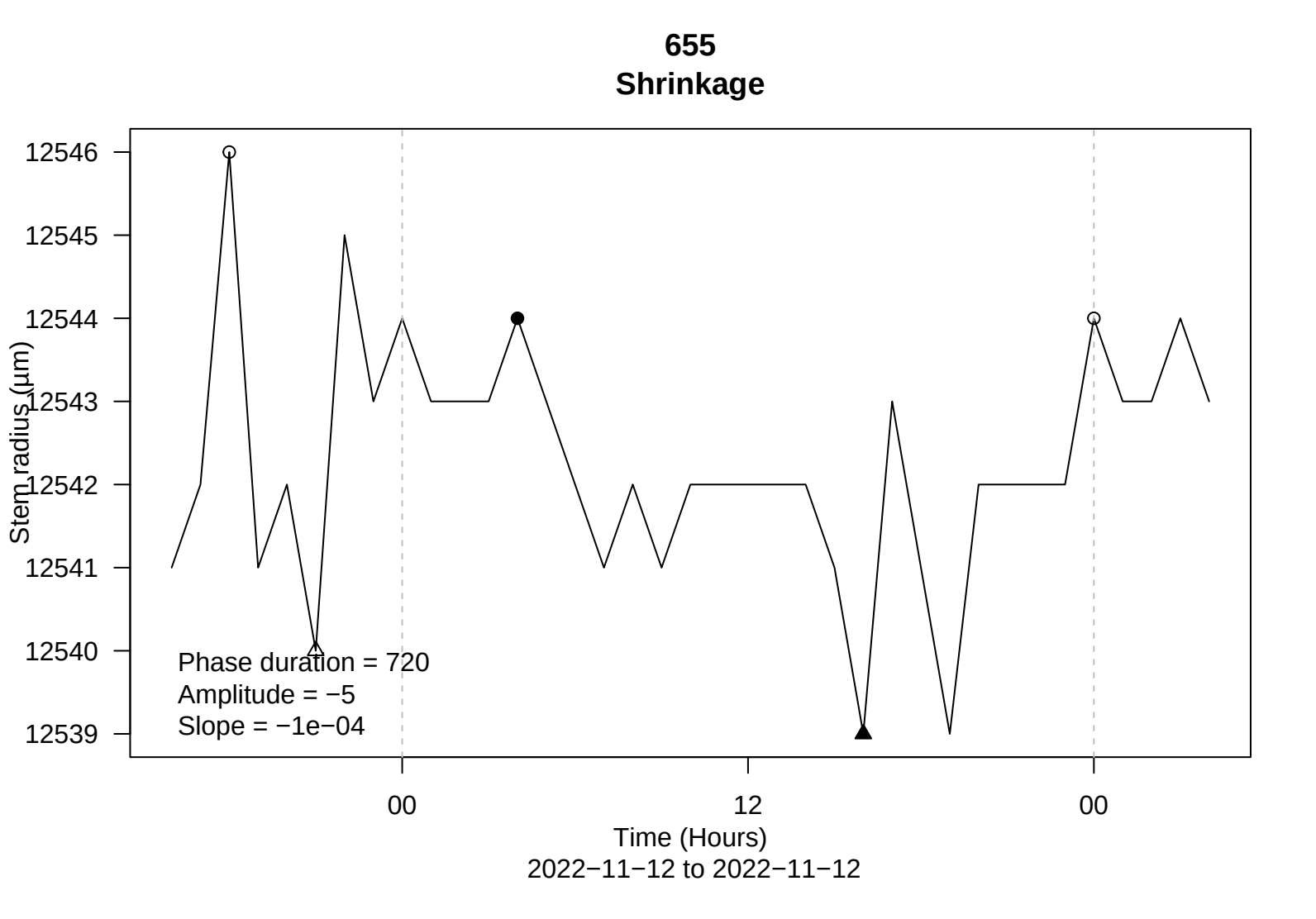

655
Expansion
12556
12554
12552
12550
12548
12546
12544
Stem radius (µm)
18
00
06
12
18
Time (Hours)
2022−11−10 to 2022−11−10
Phase duration = 360
Amplitude = 4
Slope = 2e−04

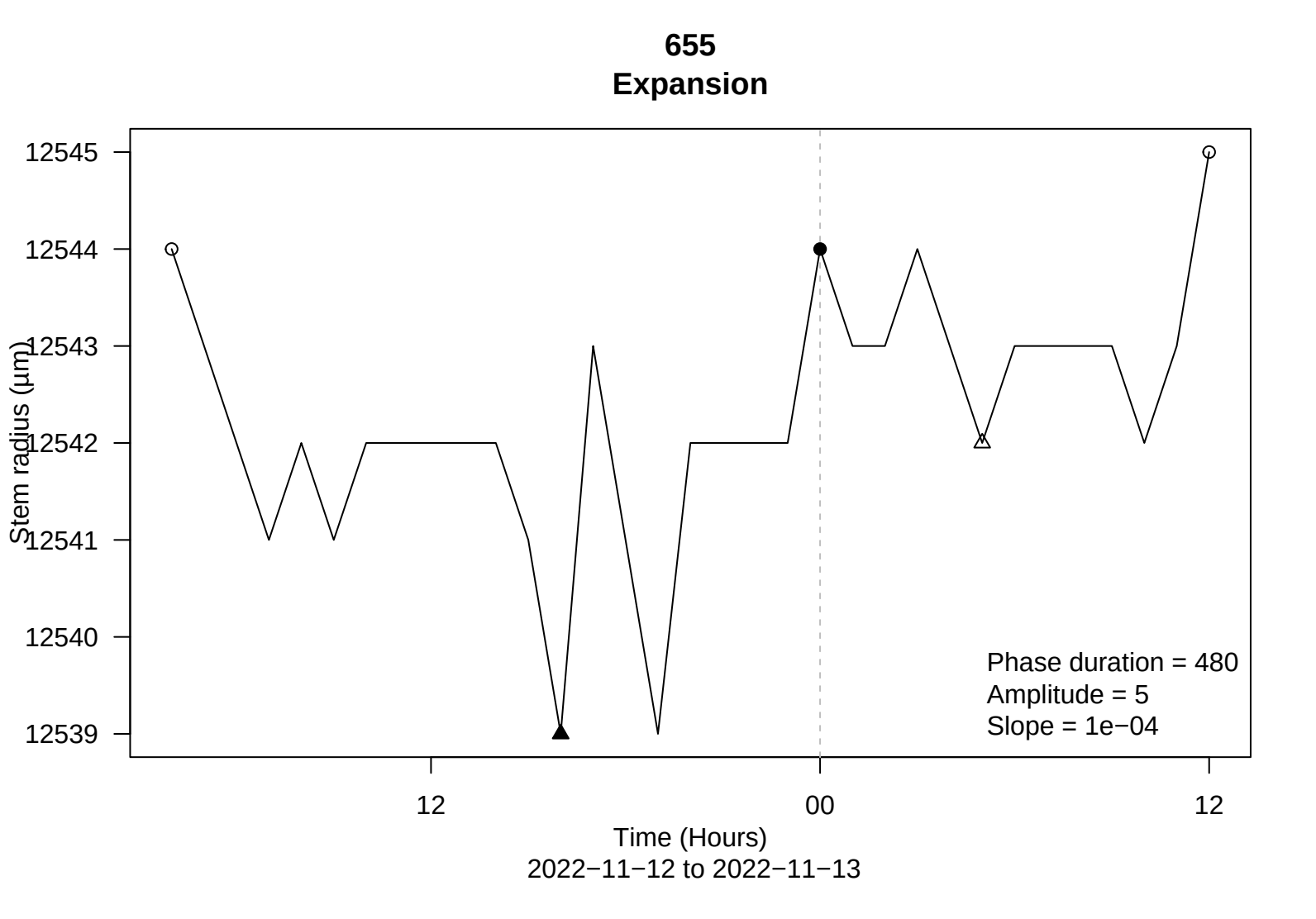

655
Shrinkage
12555
12550
12545
12540
Stem radius (µm)
Phase duration = 900
Amplitude = −15
Slope = −3e−04
00
12
00
12
Time (Hours)
2022−11−10 to 2022−11−10

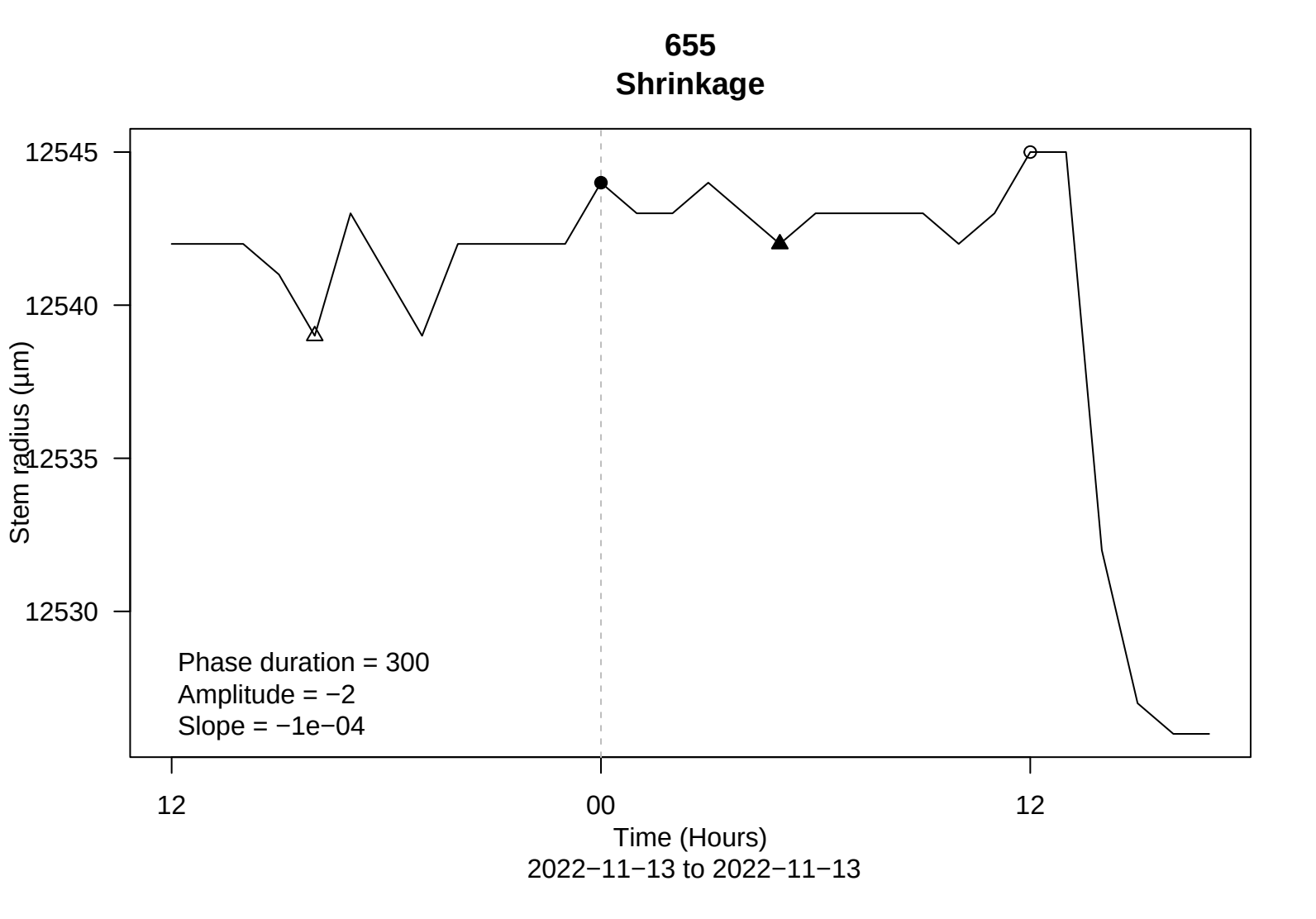

655
Shrinkage
12554
12552
12550
12548
12546
12544
12542
12540
Stem radius (µm)
Phase duration = 300
Amplitude = −7
Slope = −3e−04
12
00
12
Time (Hours)
2022−11−11 to 2022−11−11

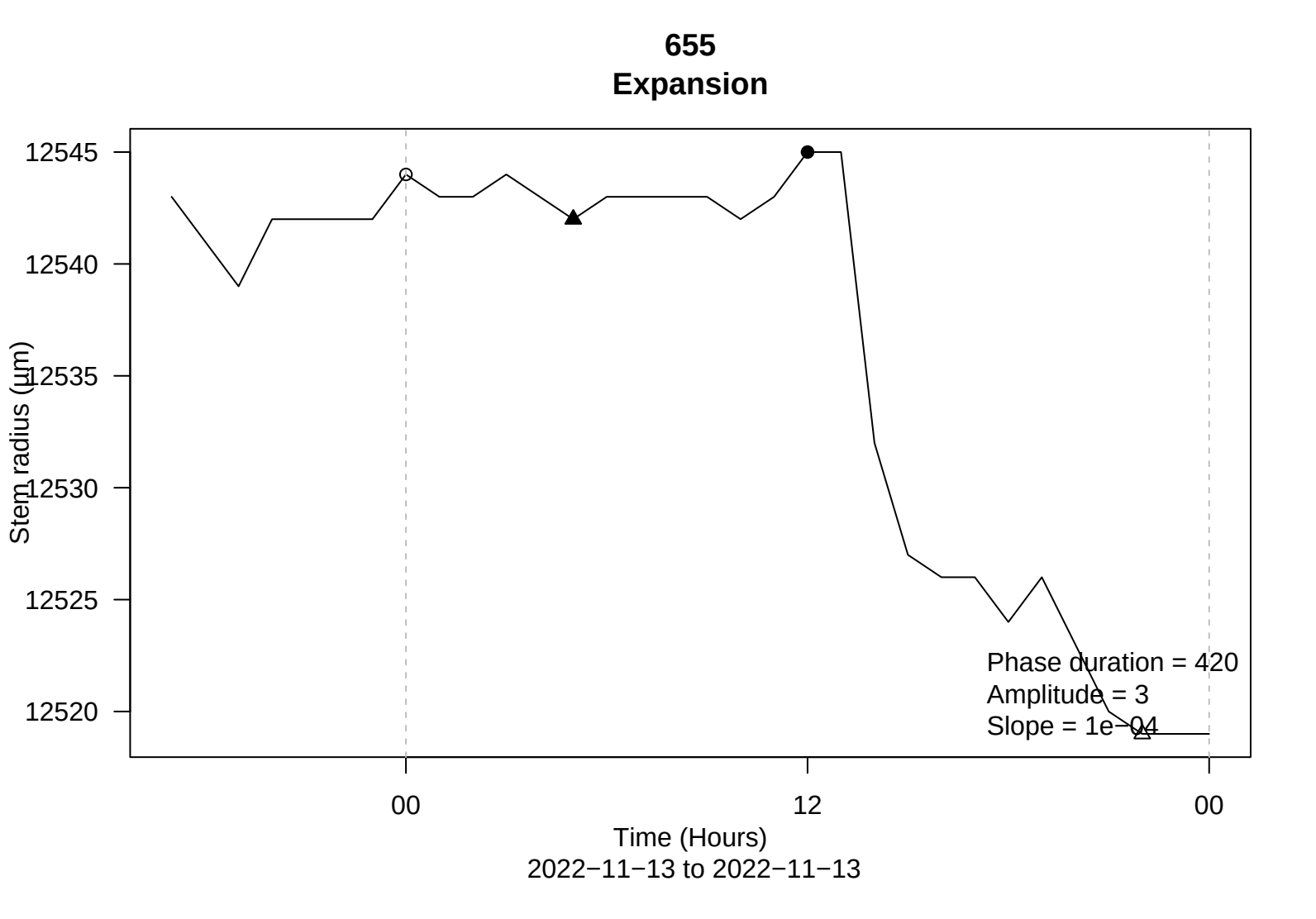

655
Expansion
12547
12546
12545
12544
12543
12542
12541
12540
Stem radius (µm)
Phase duration = 720
Amplitude = 6
Slope = 0
00
12
00
Time (Hours)
2022−11−11 to 2022−11−11

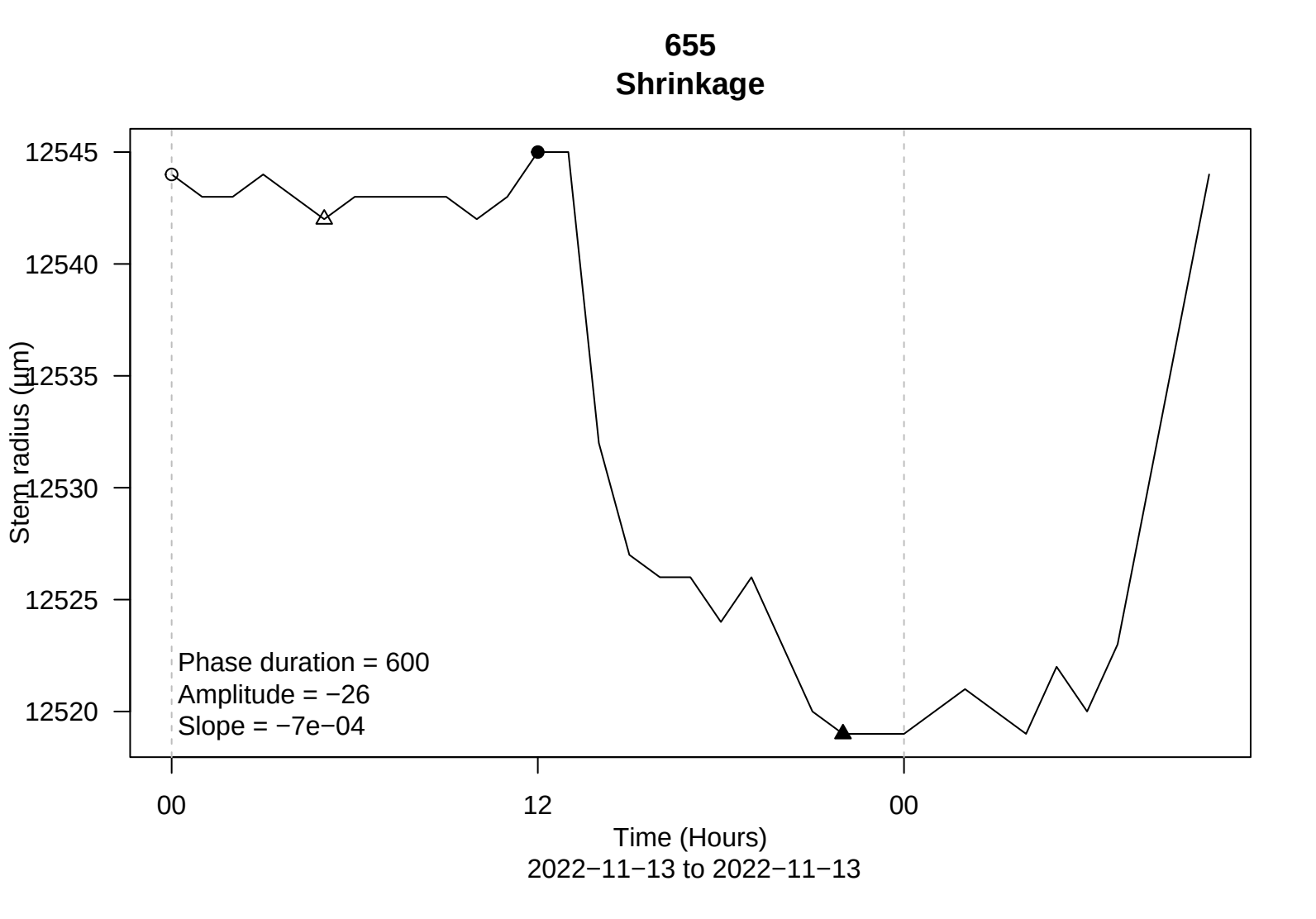

655
Expansion
12546
12545
12544
12543
12542
12541
12540
12539
Stem radius (µm)
12
18
00
06
12
Time (Hours)
2022−11−11 to 2022−11−12
Phase duration = 420
Amplitude = 4
Slope = 1e−04

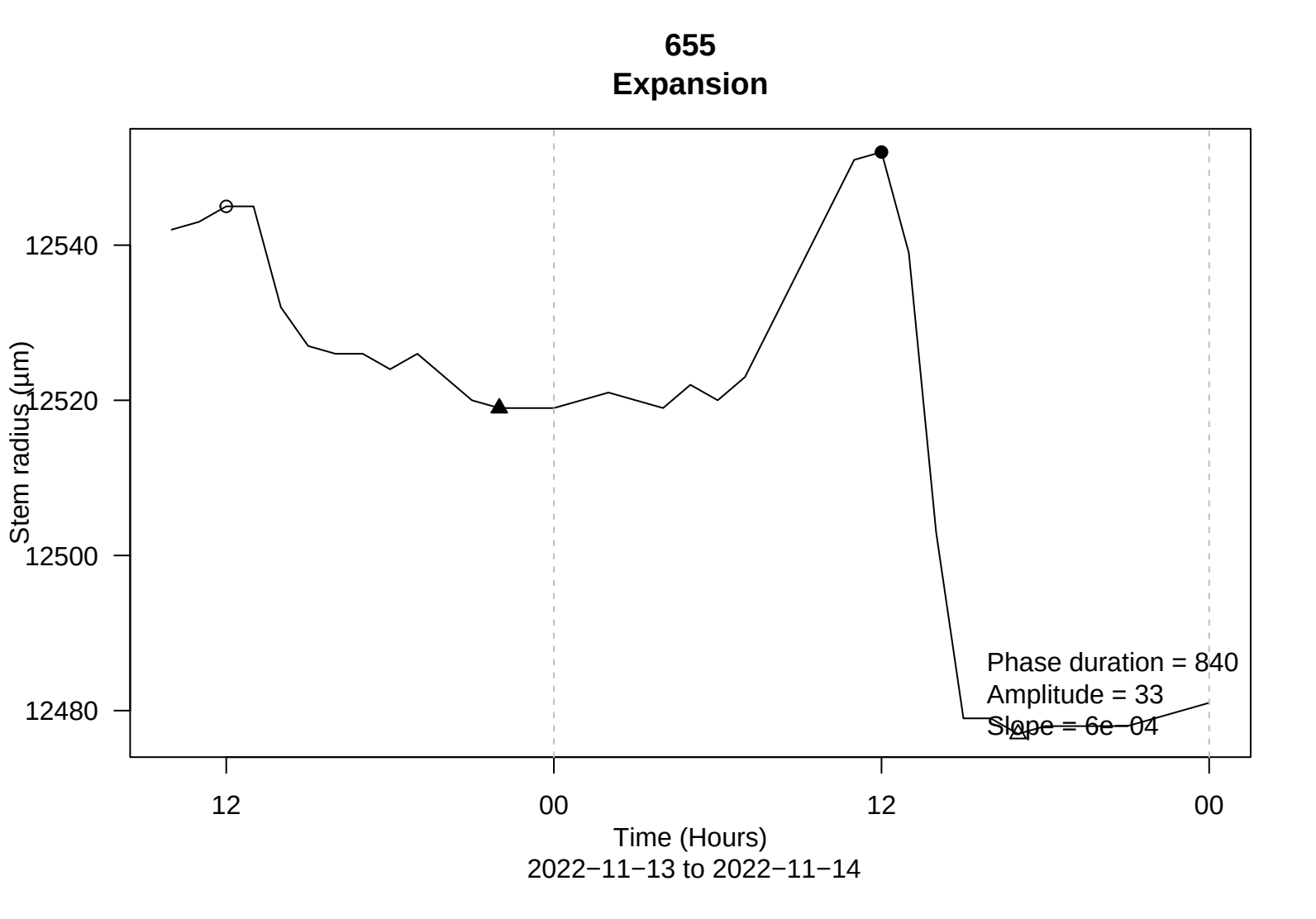

655
Shrinkage
12546
12545
12544
12543
12542
12541
12540
12539
Stem radius (µm)
Phase duration = 720
Amplitude = −5
Slope = −1e−04
00
12
00
Time (Hours)
2022−11−12 to 2022−11−12

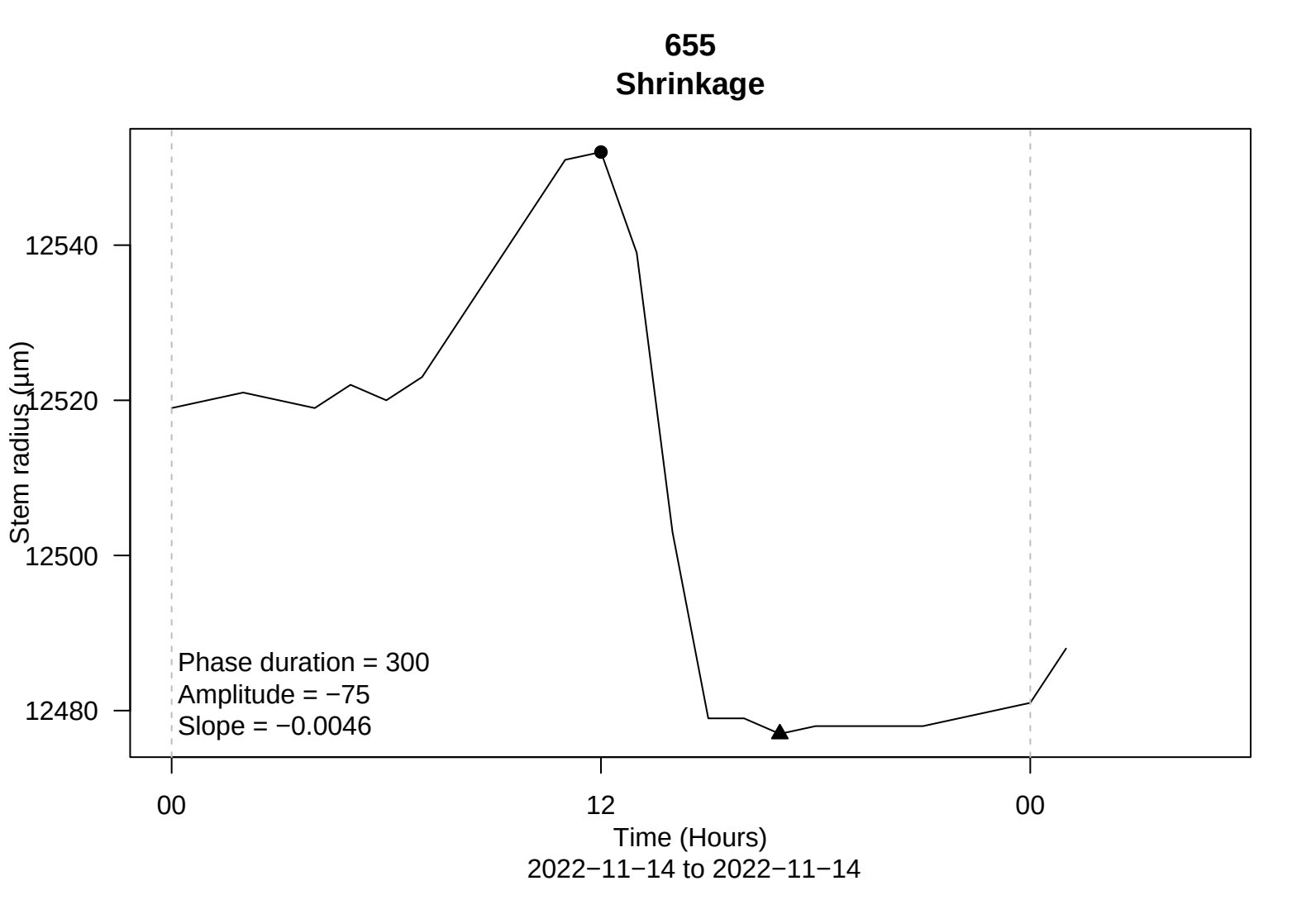

655
Expansion
12545
12544
12543
12542
12541
12540
12539
Stem radius (µm)
12
00
12
Time (Hours)
2022−11−12 to 2022−11−13
Phase duration = 480
Amplitude = 5
Slope = 1e−04

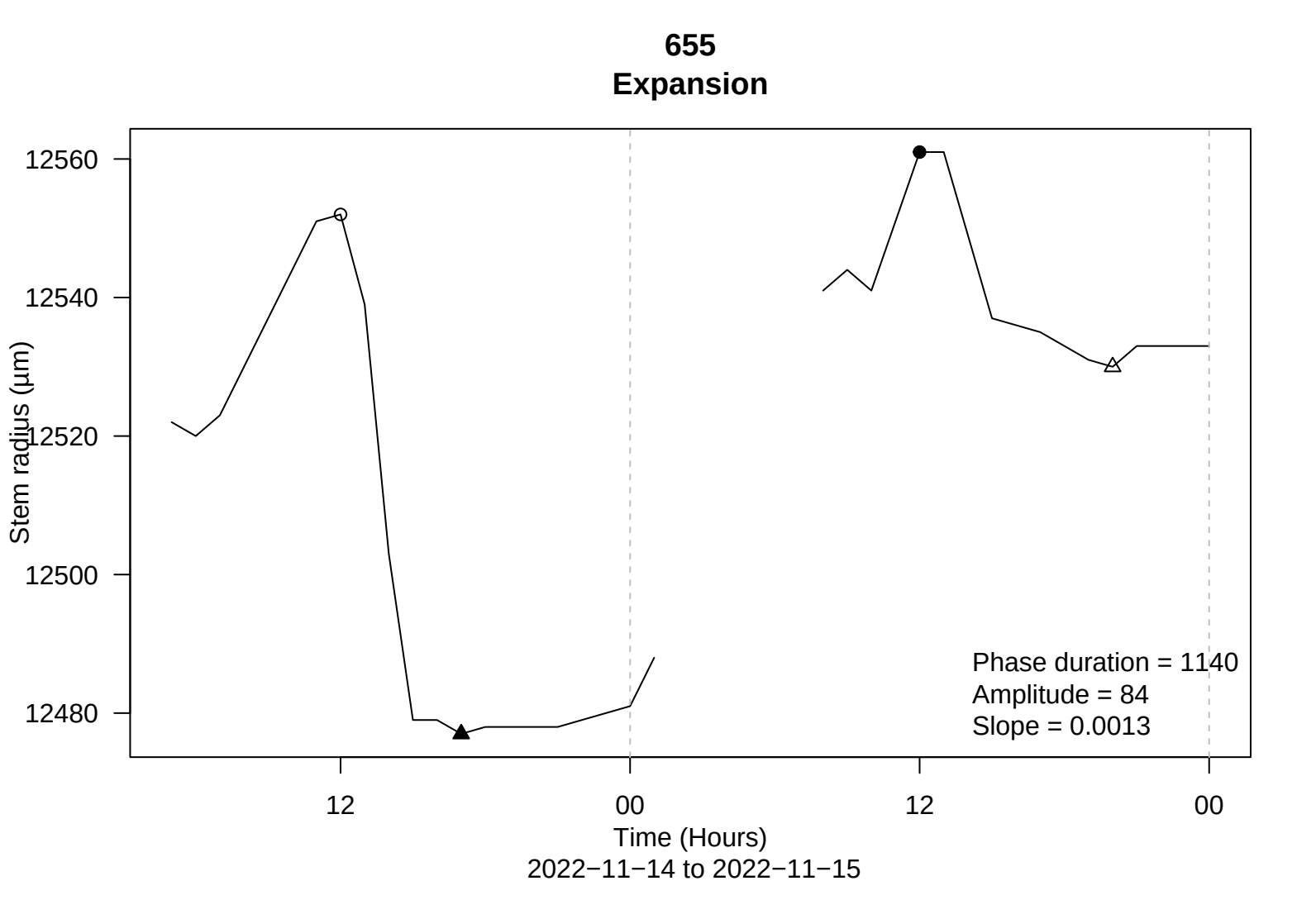

655
Shrinkage
12545
12540
12535
12530
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2022−11−13 to 2022−11−13

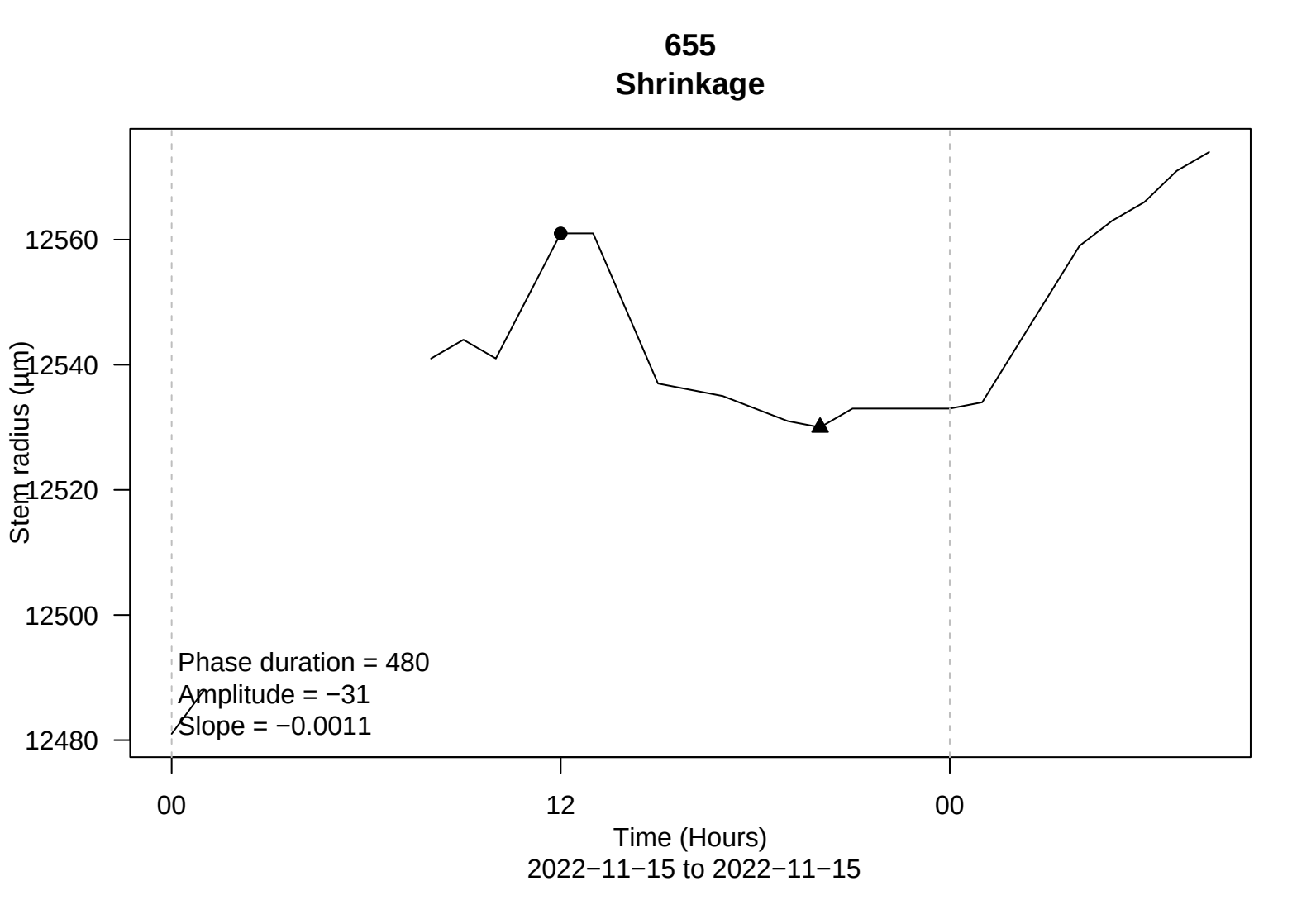

655
Expansion
12545
12540
12535
12530
12525
12520
Stem radius (µm)
Phase duration = 420
Amplitude = 3
Slope = 1e−04
00
12
00
Time (Hours)
2022−11−13 to 2022−11−13

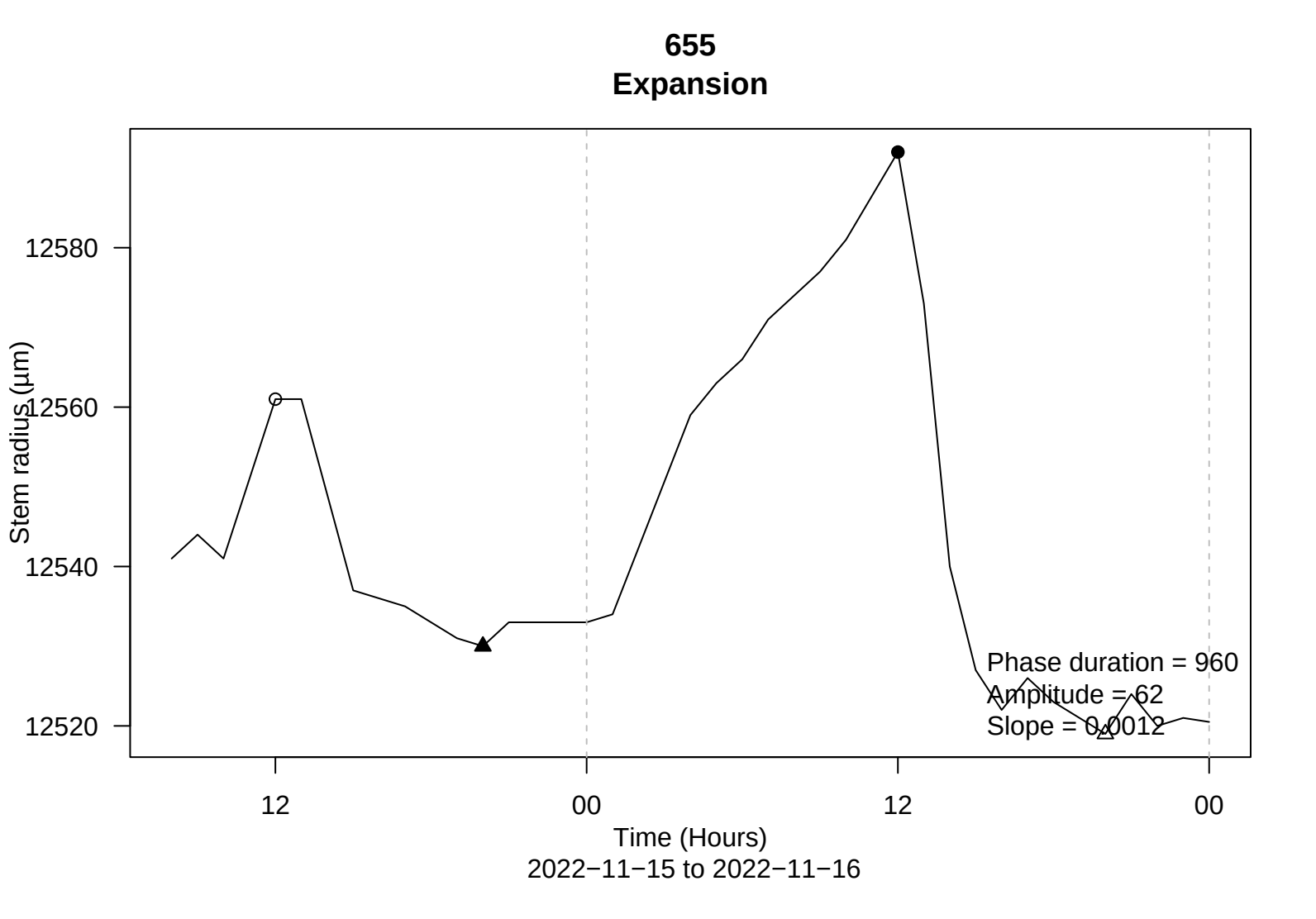

655
Shrinkage
12545
12540
12535
12530
12525
12520
Stem radius (µm)
Phase duration = 600
Amplitude = −26
Slope = −7e−04
00
12
00
Time (Hours)
2022−11−13 to 2022−11−13

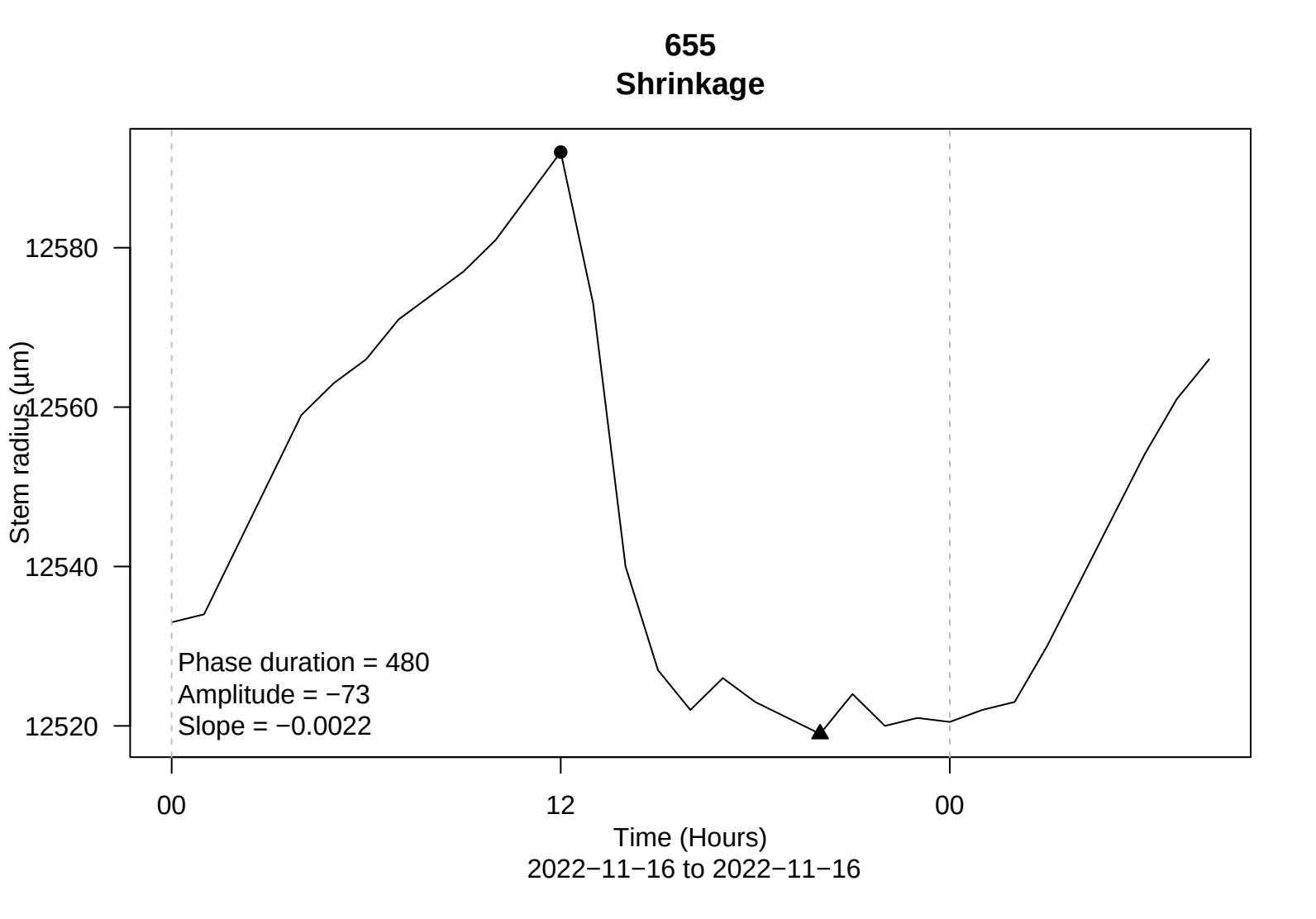

655
Expansion
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 840
Amplitude = 33
Slope = 6e−04
12
00
12
00
Time (Hours)
2022−11−13 to 2022−11−14

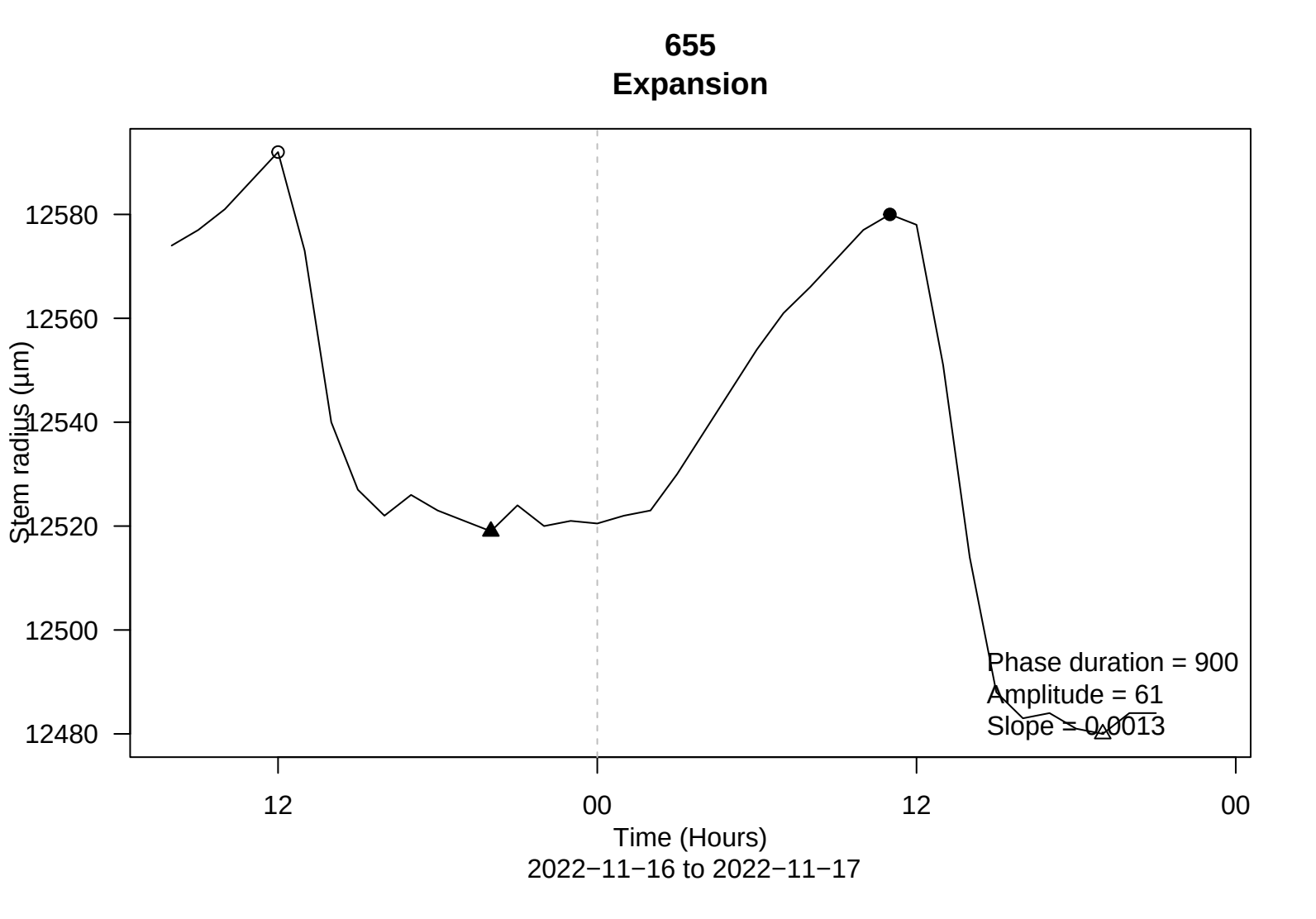

655
Shrinkage
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 300
Amplitude = −75
Slope = −0.0046
00
12
00
Time (Hours)
2022−11−14 to 2022−11−14

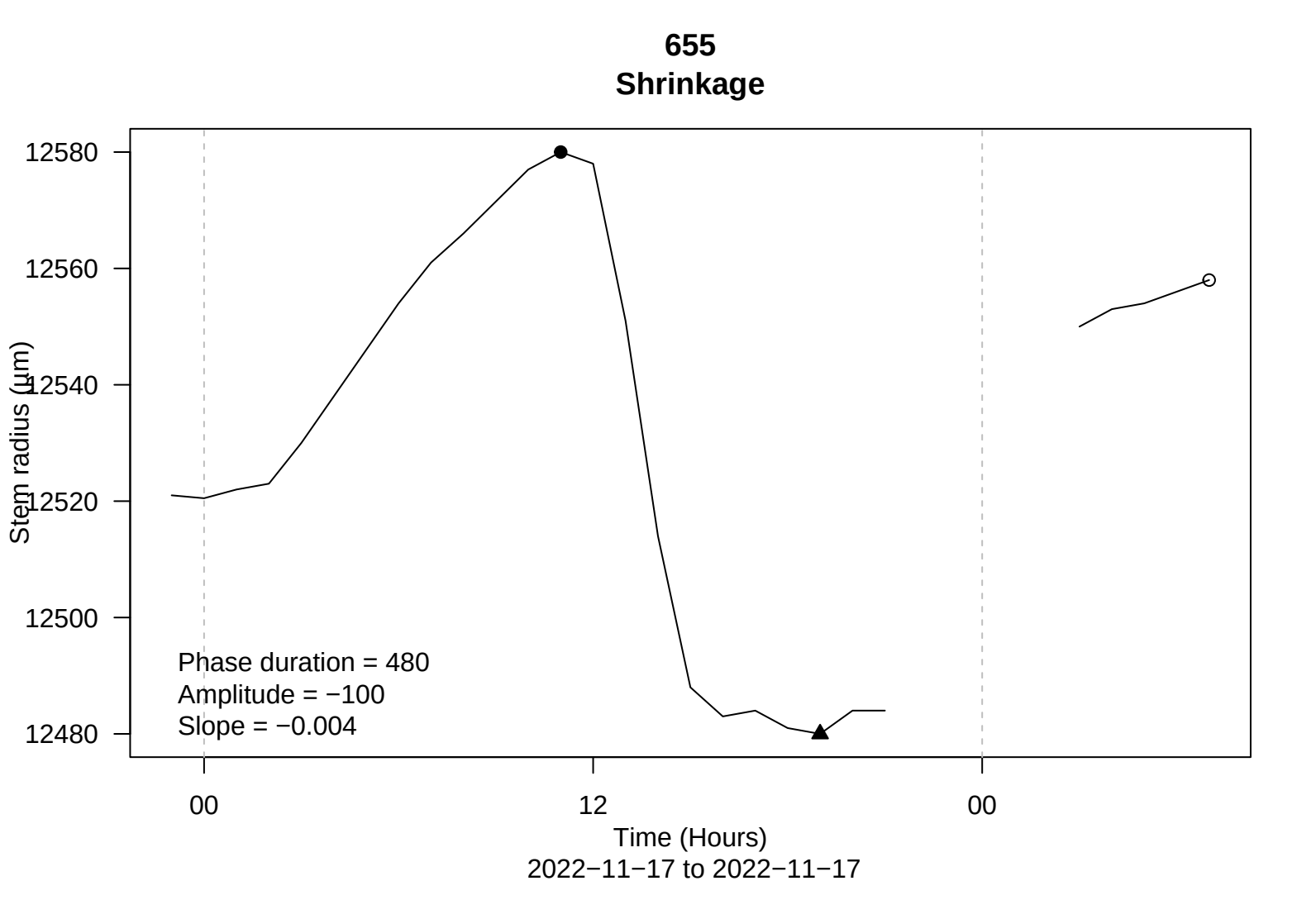

655
Expansion
12560
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 1140
Amplitude = 84
Slope = 0.0013
12
00
12
00
Time (Hours)
2022−11−14 to 2022−11−15

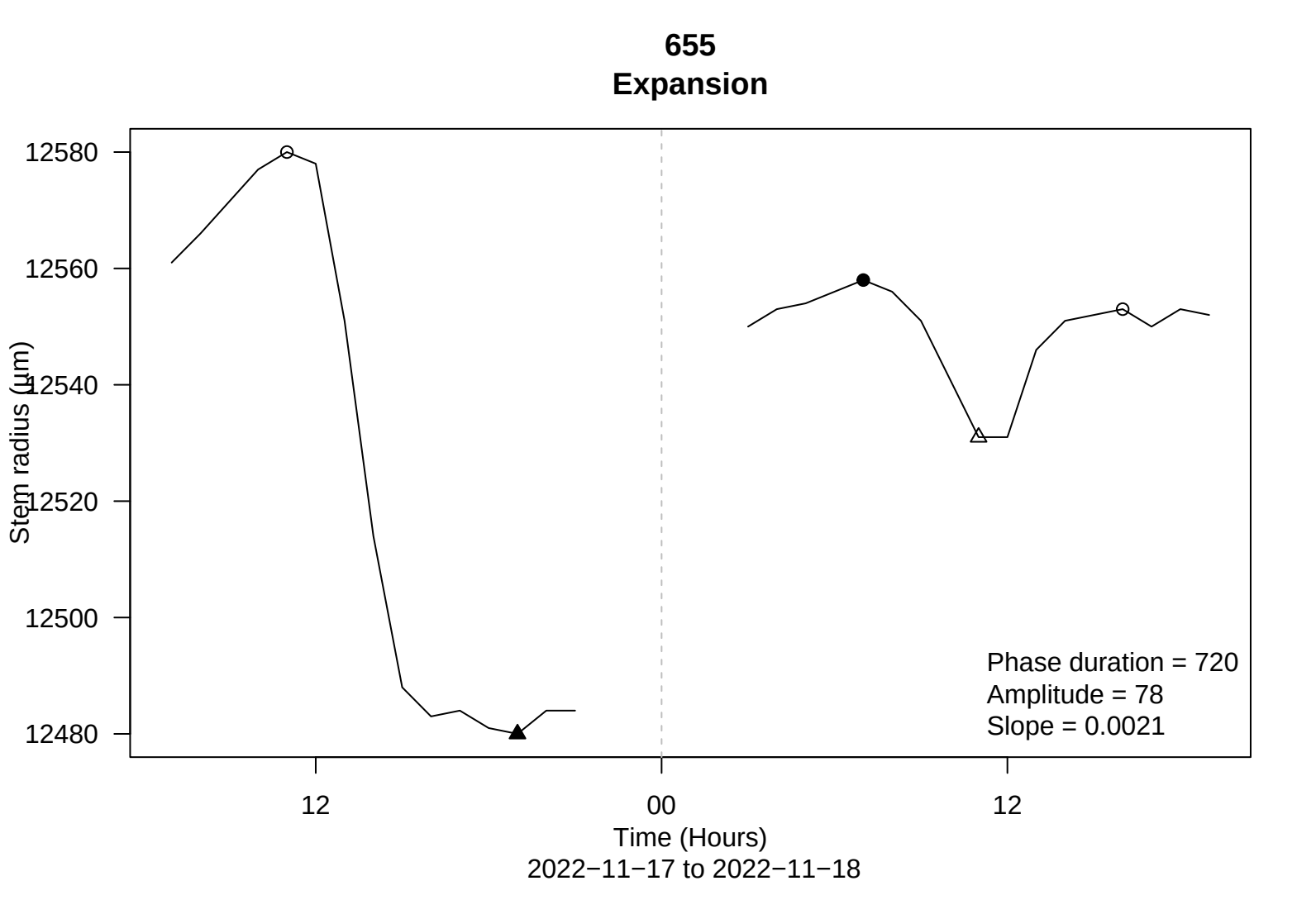

655
Shrinkage
12560
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 480
Amplitude = −31
Slope = −0.0011
00
12
00
Time (Hours)
2022−11−15 to 2022−11−15

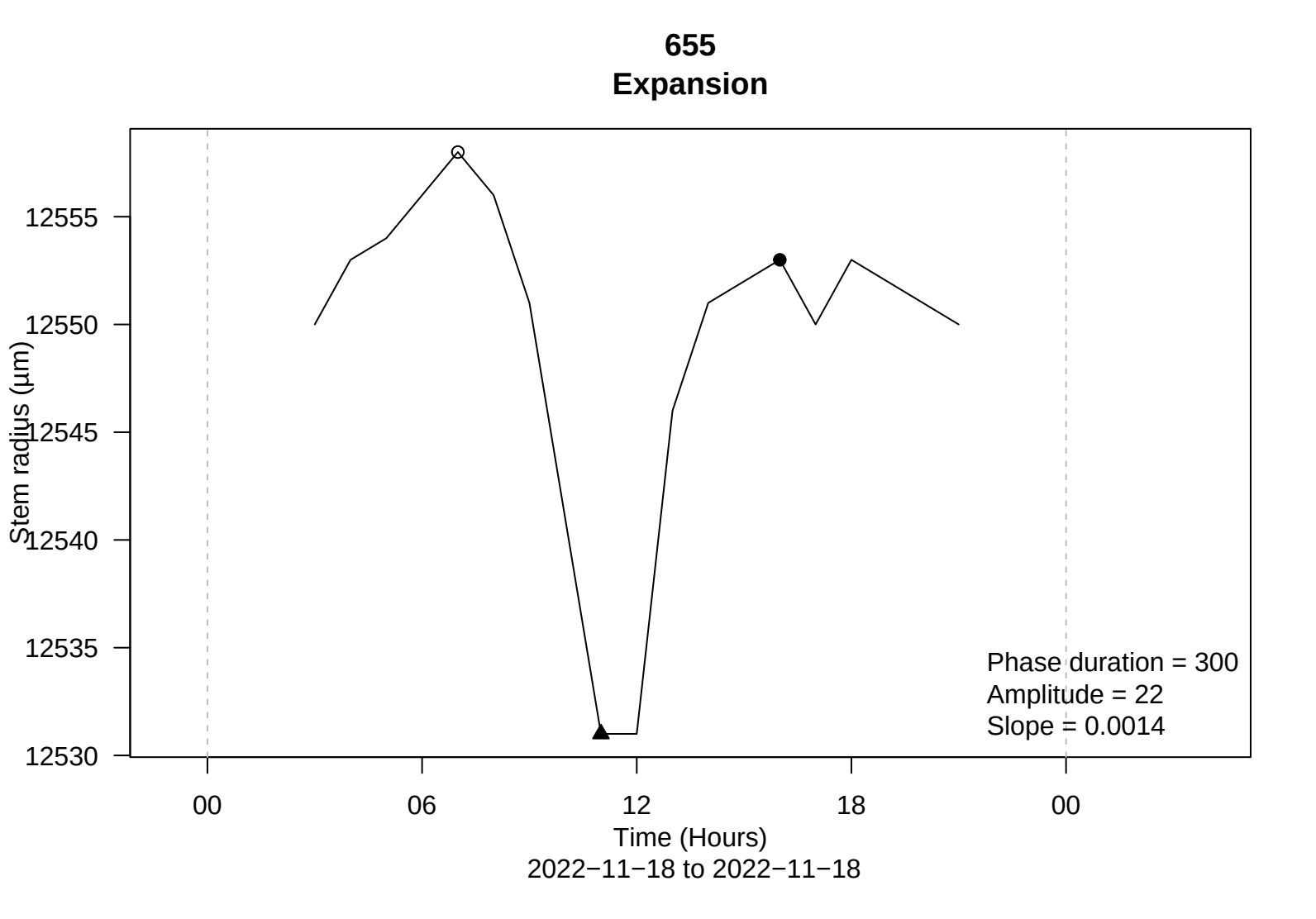

655
Expansion
12580
12560
12540
12520
Stem radius (µm)
Phase duration = 960
Amplitude = 62
Slope = 0.0012
12
00
12
00
Time (Hours)
2022−11−15 to 2022−11−16

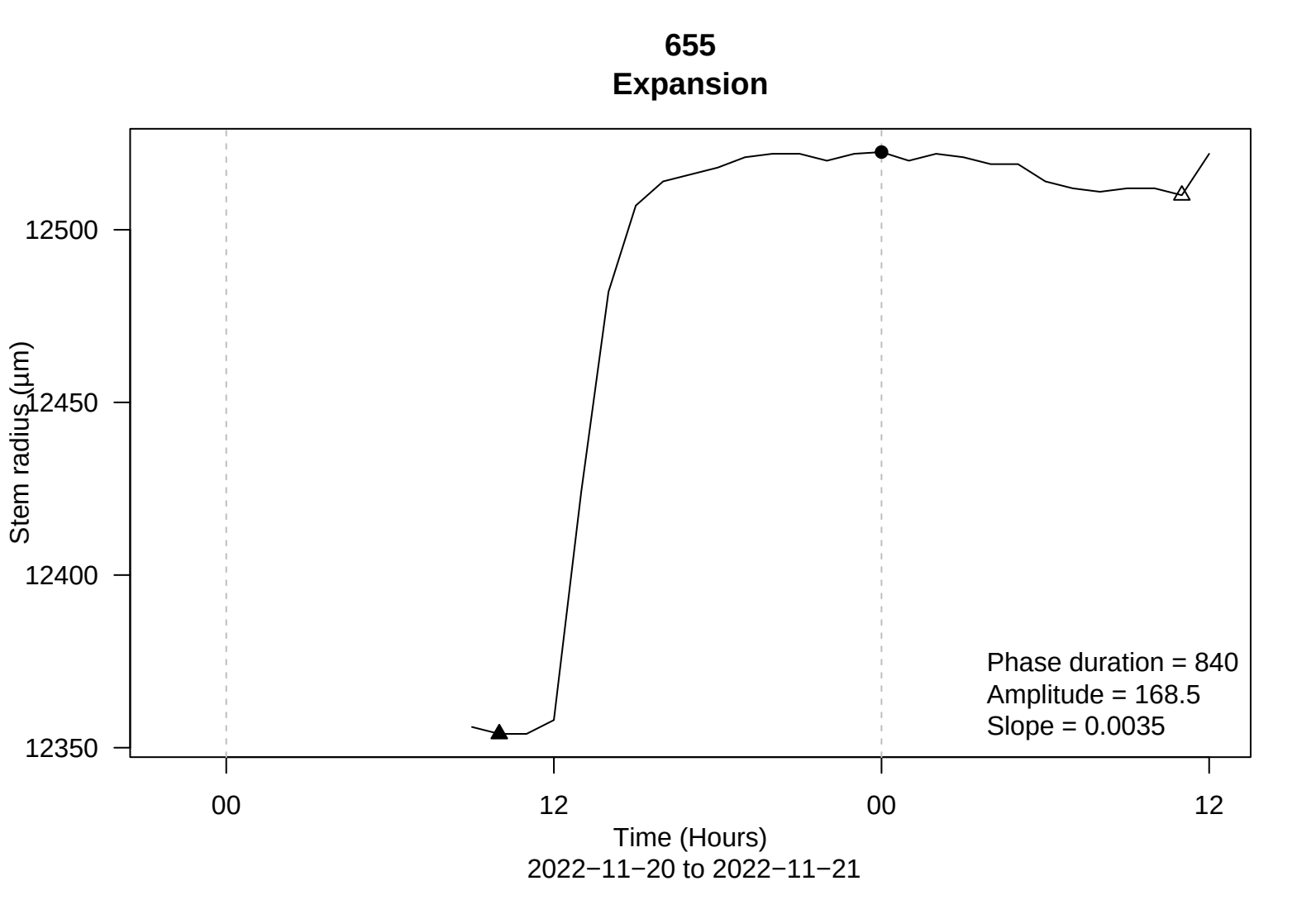

655
Shrinkage
12580
12560
12540
12520
Stem radius (µm)
Phase duration = 480
Amplitude = −73
Slope = −0.0022
00
12
00
Time (Hours)
2022−11−16 to 2022−11−16

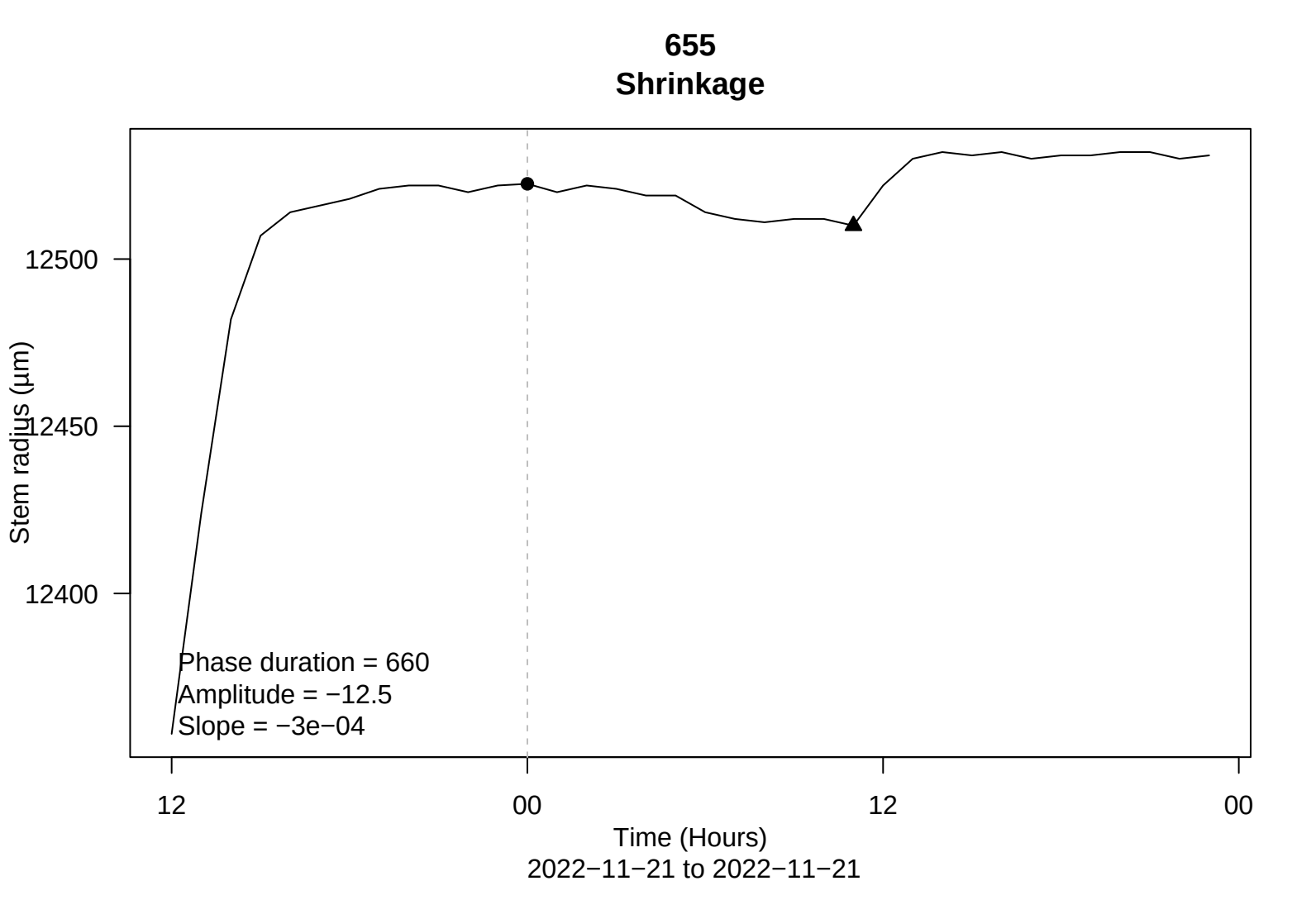

655
Expansion
12580
12560
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 900
Amplitude = 61
Slope = 0.0013
12
00
12
00
Time (Hours)
2022−11−16 to 2022−11−17

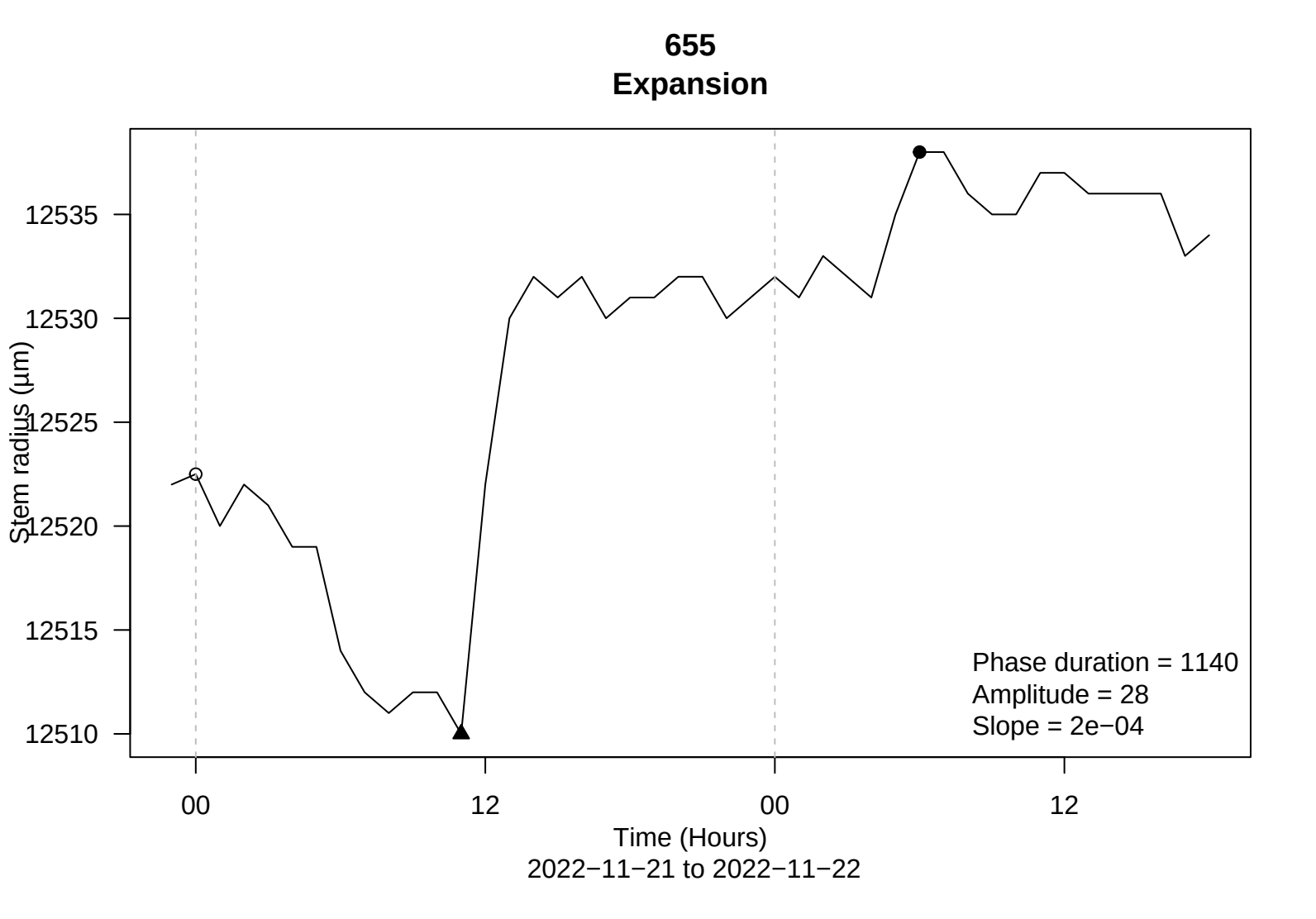

655
Shrinkage
12580
12560
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 480
Amplitude = −100
Slope = −0.004
00
12
00
Time (Hours)
2022−11−17 to 2022−11−17

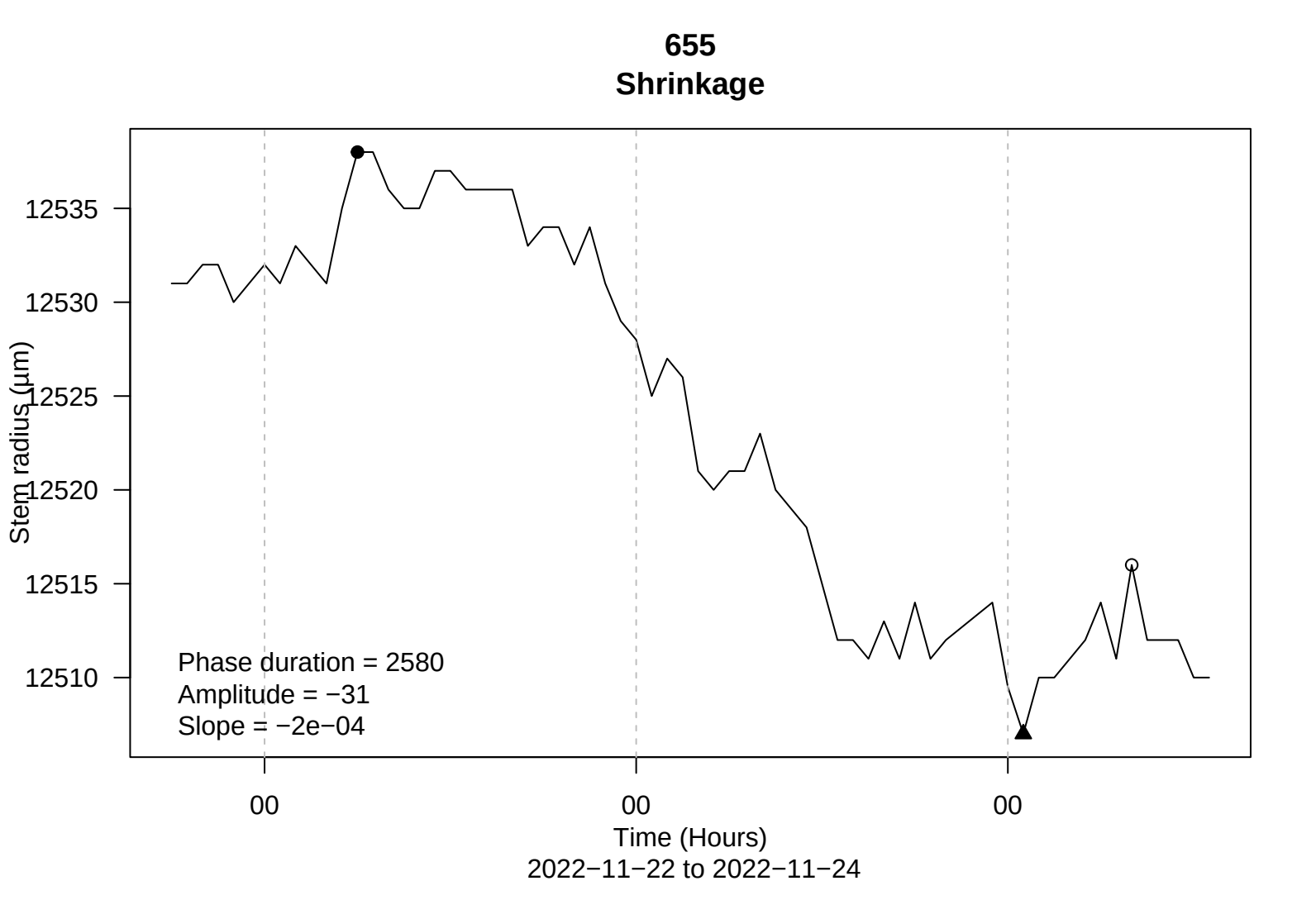

655
Expansion
12580
12560
12540
12520
12500
12480
Stem radius (µm)
Phase duration = 720
Amplitude = 78
Slope = 0.0021
12
00
12
Time (Hours)
2022−11−17 to 2022−11−18

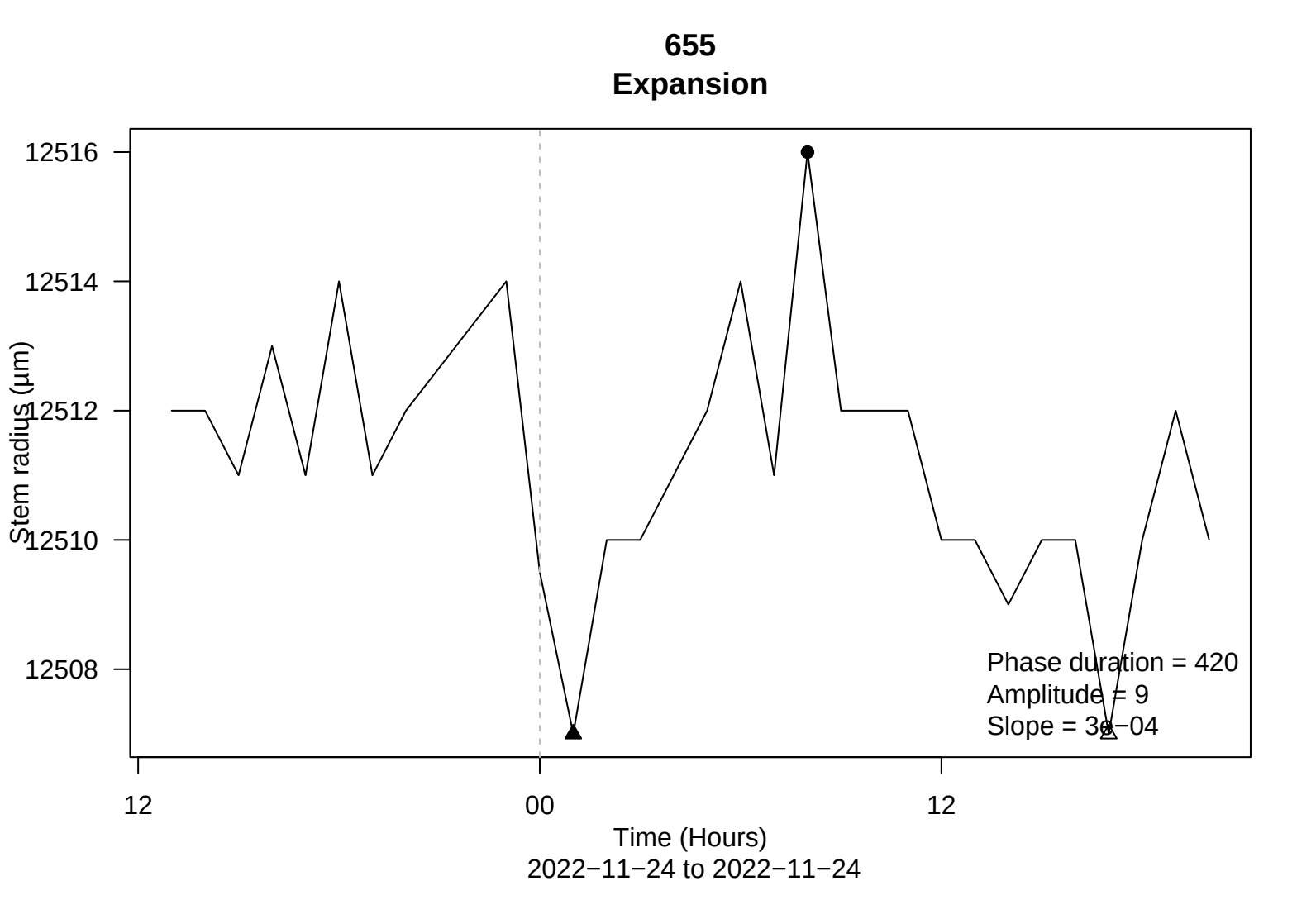

655
Expansion
12555
12550
12545
12540
12535
12530
Stem radius (µm)
00
06
12
18
00
Time (Hours)
2022−11−18 to 2022−11−18
Phase duration = 300
Amplitude = 22
Slope = 0.0014

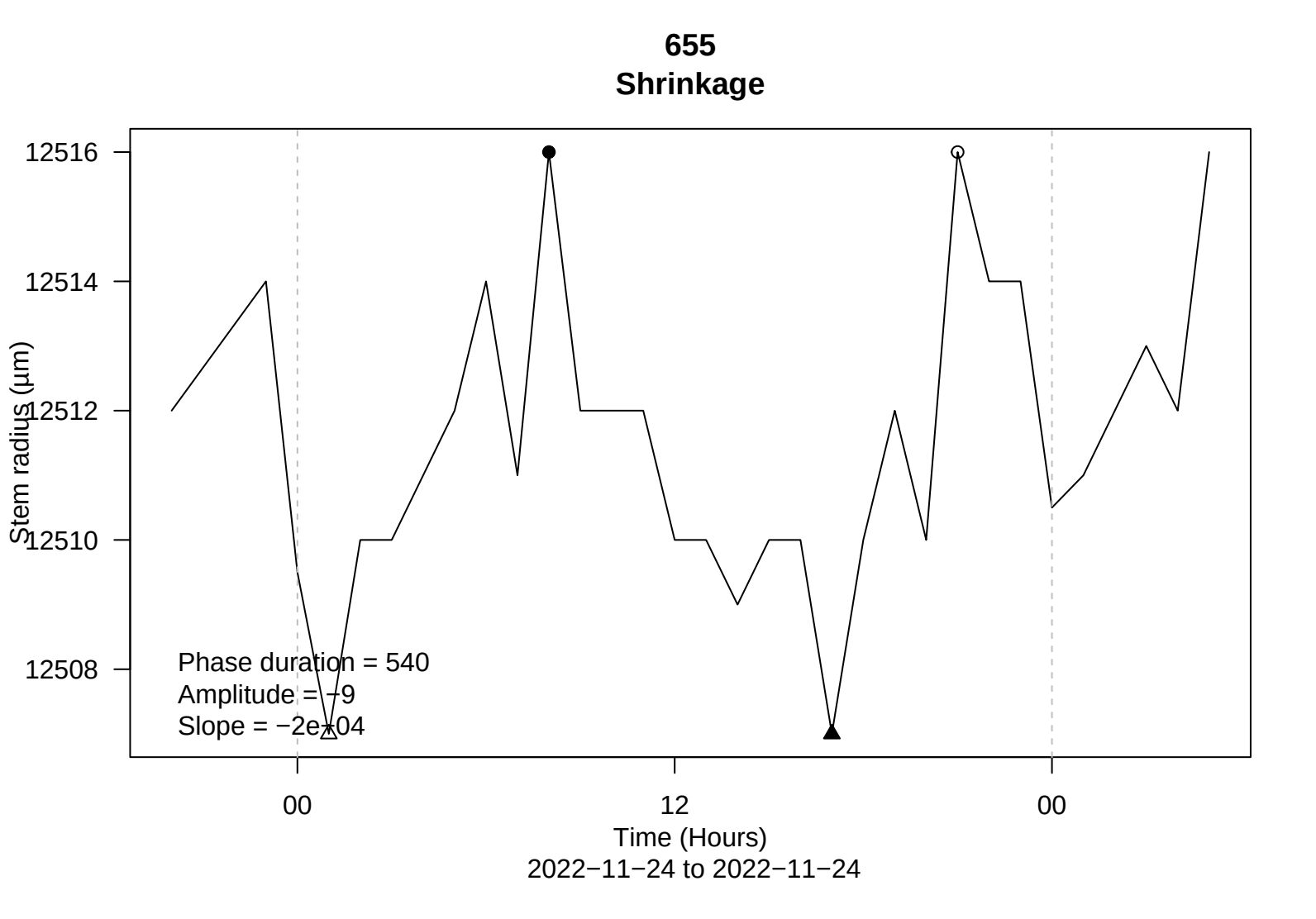

655
Expansion
12500
12450
12400
12350
Stem radius (µm)
Phase duration = 840
Amplitude = 168.5
Slope = 0.0035
00
12
00
12
Time (Hours)
2022−11−20 to 2022−11−21

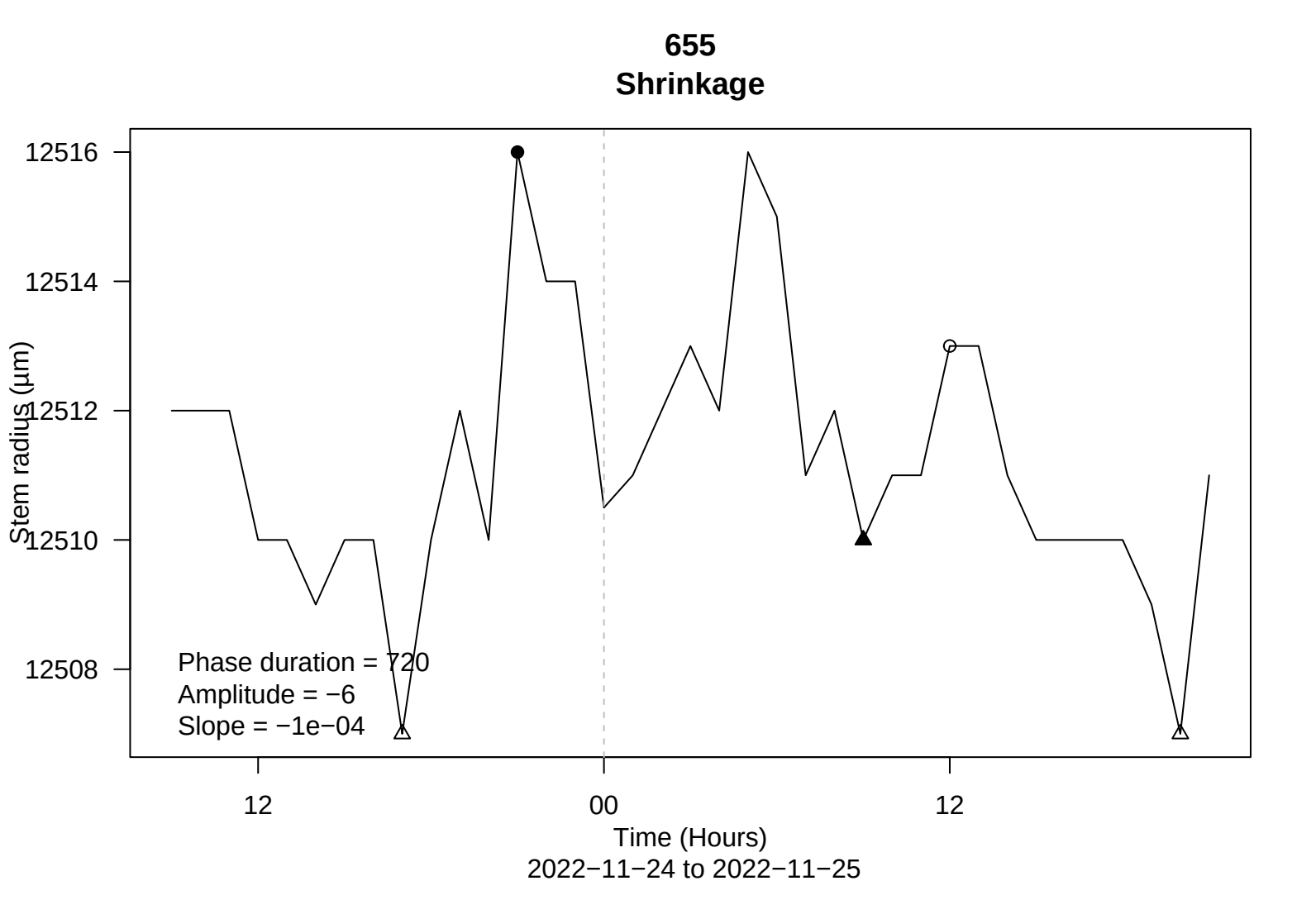

655
Shrinkage
12500
12450
12400
Stem radius (µm)
Phase duration = 660
Amplitude = −12.5
Slope = −3e−04
12
00
12
00
Time (Hours)
2022−11−21 to 2022−11−21

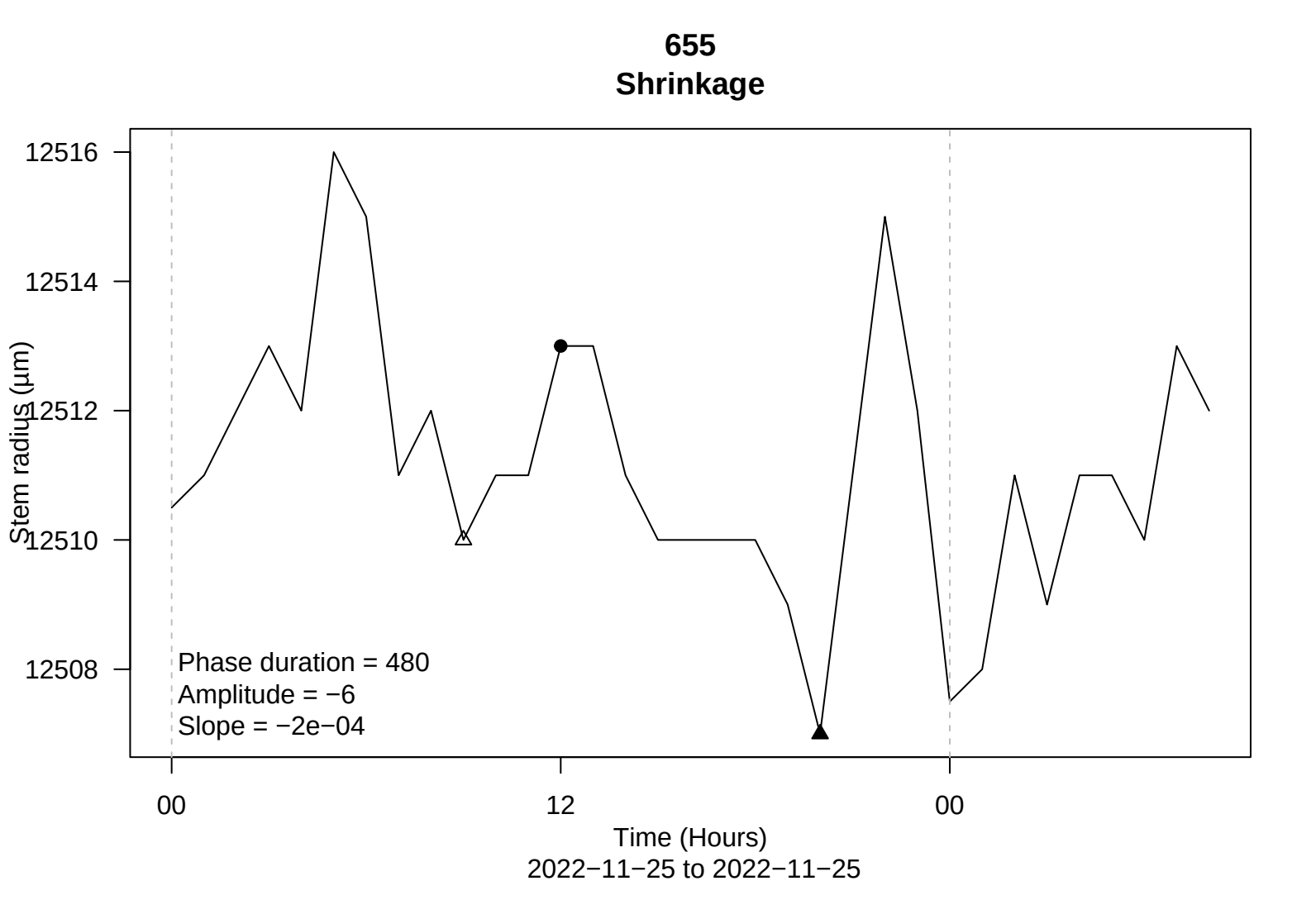

655
Expansion
12535
12530
12525
12520
12515
12510
Stem radius (µm)
Phase duration = 1140
Amplitude = 28
Slope = 2e−04
00
12
00
12
Time (Hours)
2022−11−21 to 2022−11−22

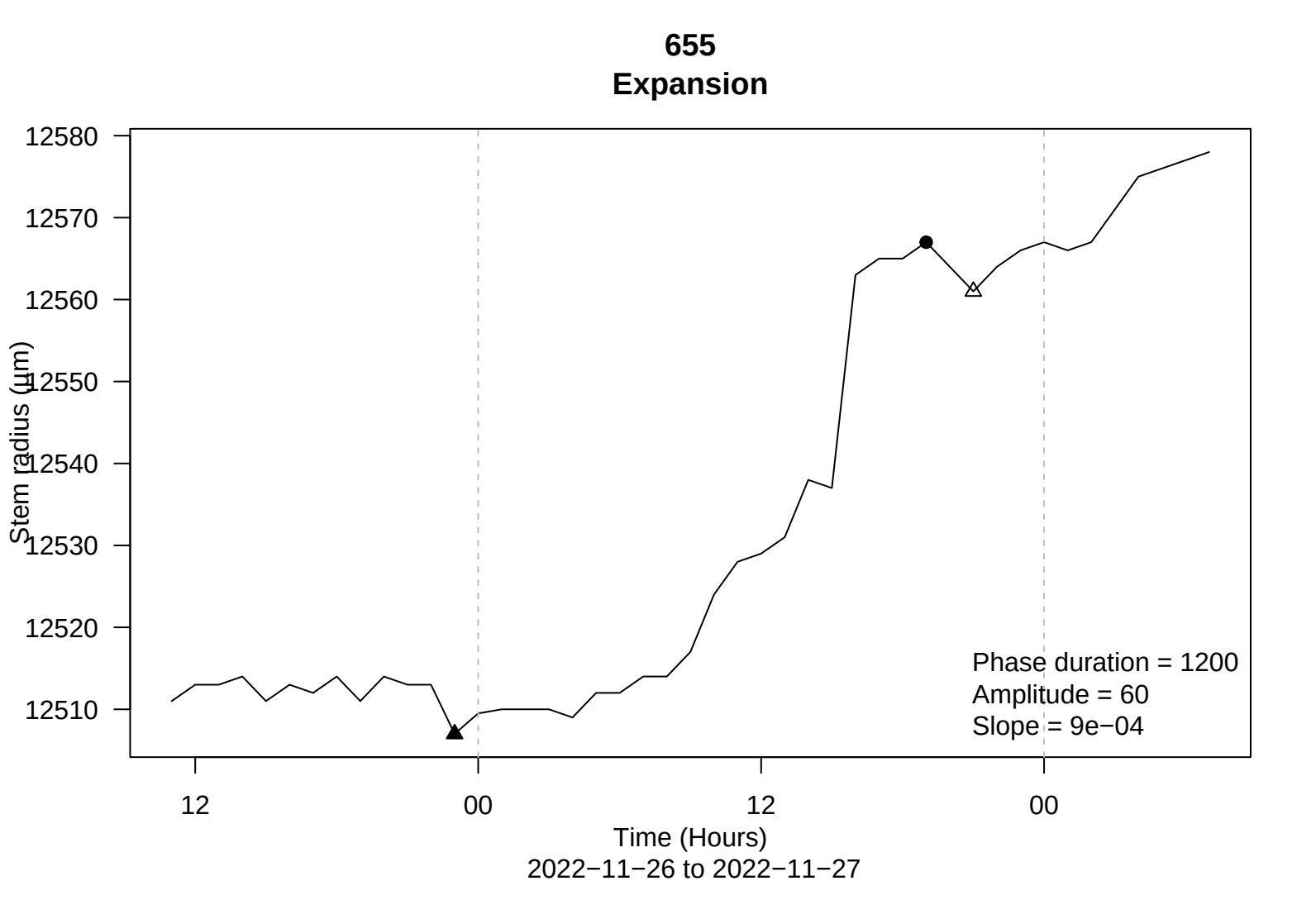

655
Shrinkage
12535
12530
12525
12520
12515
12510
Stem radius (µm)
Phase duration = 2580
Amplitude = −31
Slope = −2e−04
00
00
00
Time (Hours)
2022−11−22 to 2022−11−24

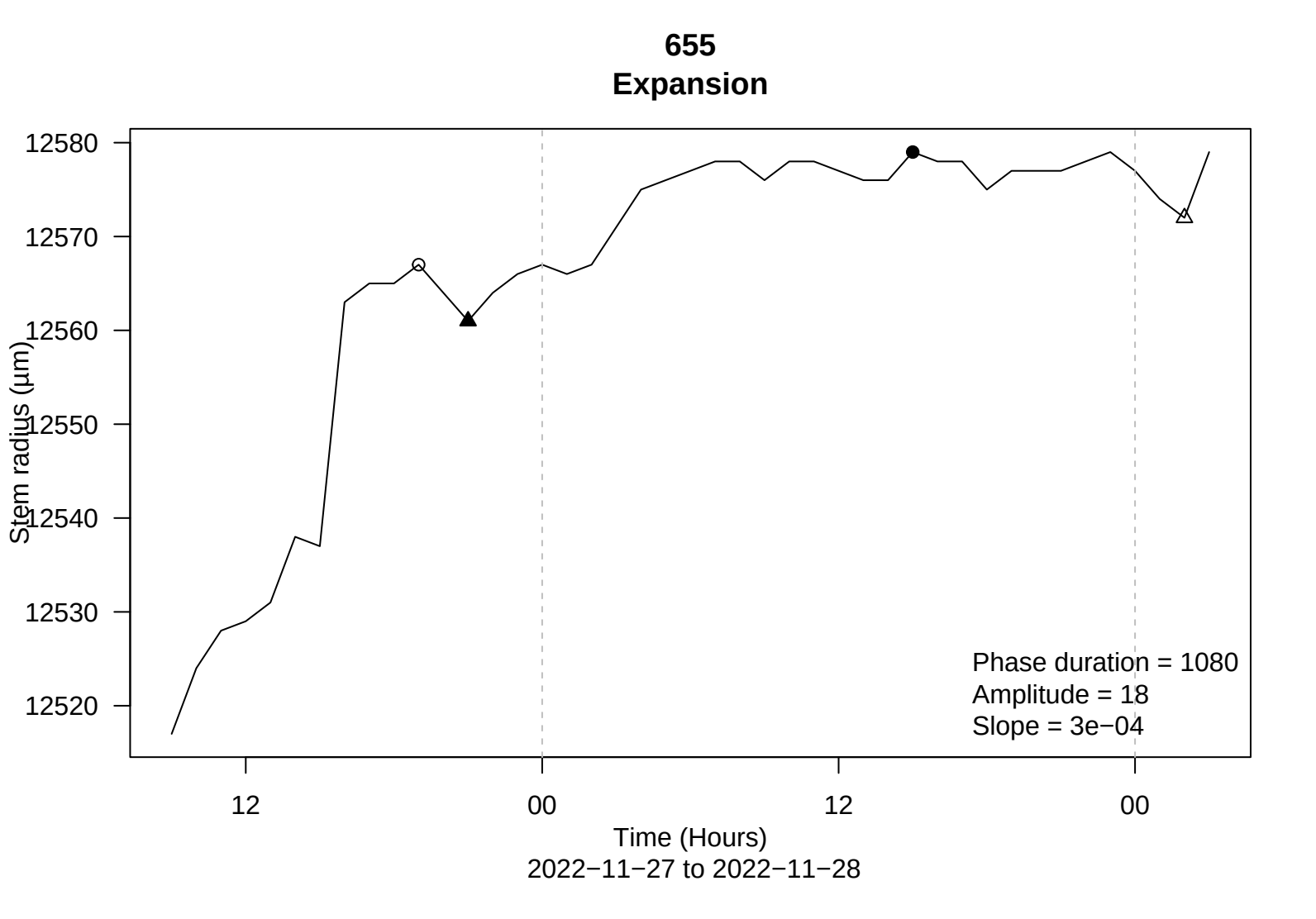

655
Expansion
12516
12514
12512
12510
12508
Stem radius (µm)
Phase duration = 420
Amplitude = 9
Slope = 3e−04
12
00
12
Time (Hours)
2022−11−24 to 2022−11−24

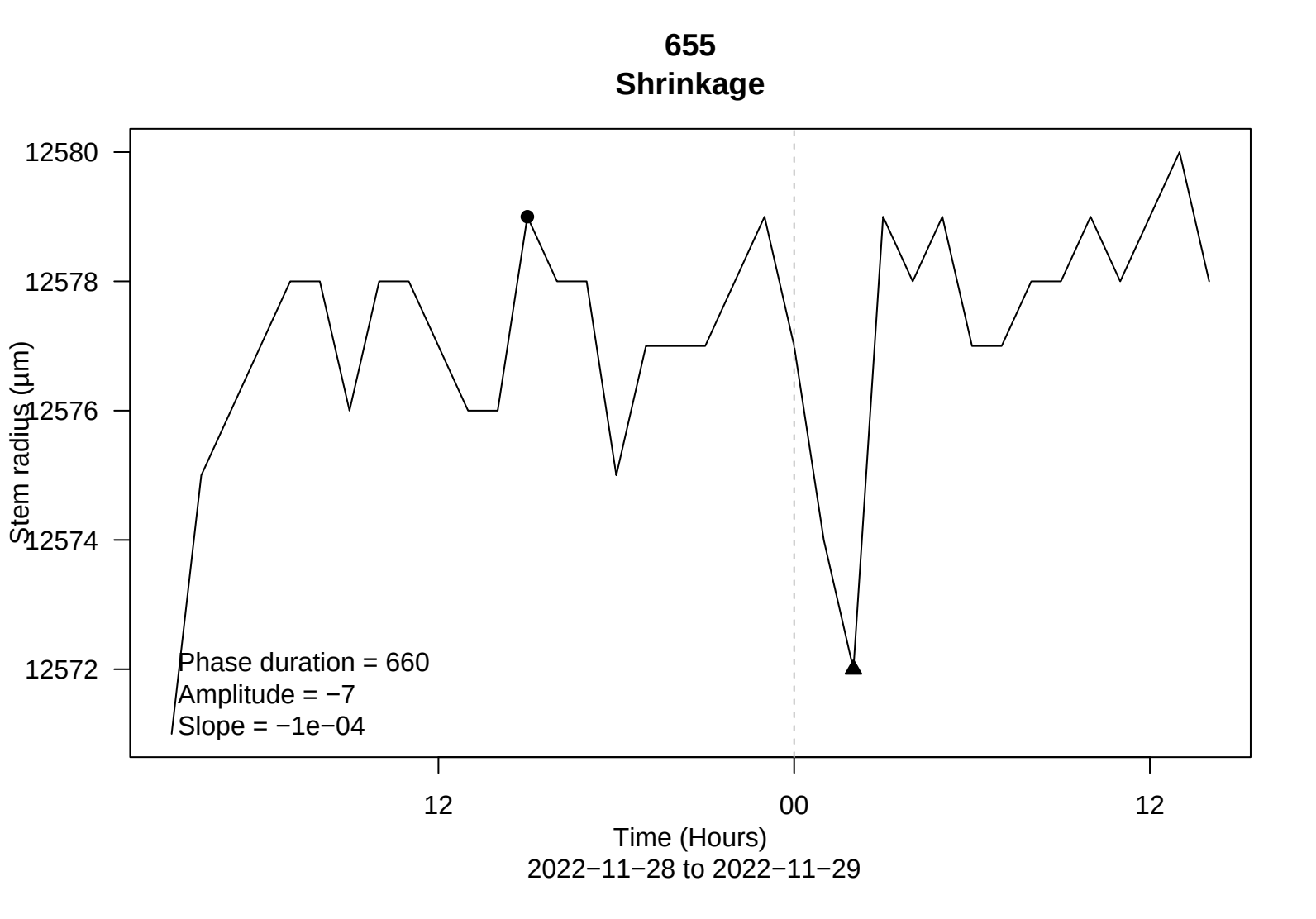

655
Shrinkage
12516
12514
12512
12510
12508
Stem radius (µm)
Phase duration = 540
Amplitude = −9
Slope = −2e−04
00
12
00
Time (Hours)
2022−11−24 to 2022−11−24

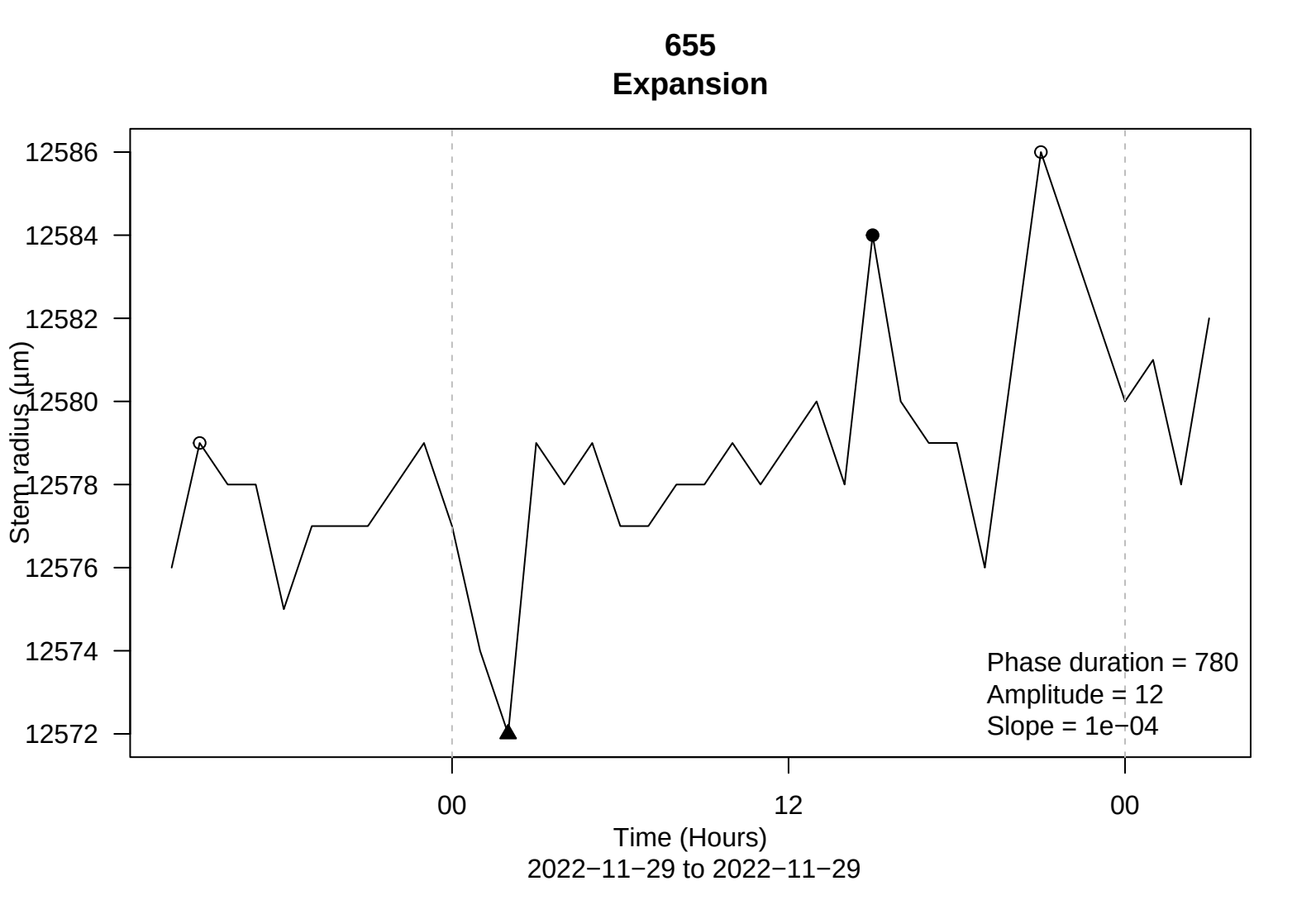

655
Shrinkage
12516
12514
12512
12510
12508
Stem radius (µm)
Phase duration = 720
Amplitude = −6
Slope = −1e−04
12
00
12
Time (Hours)
2022−11−24 to 2022−11−25

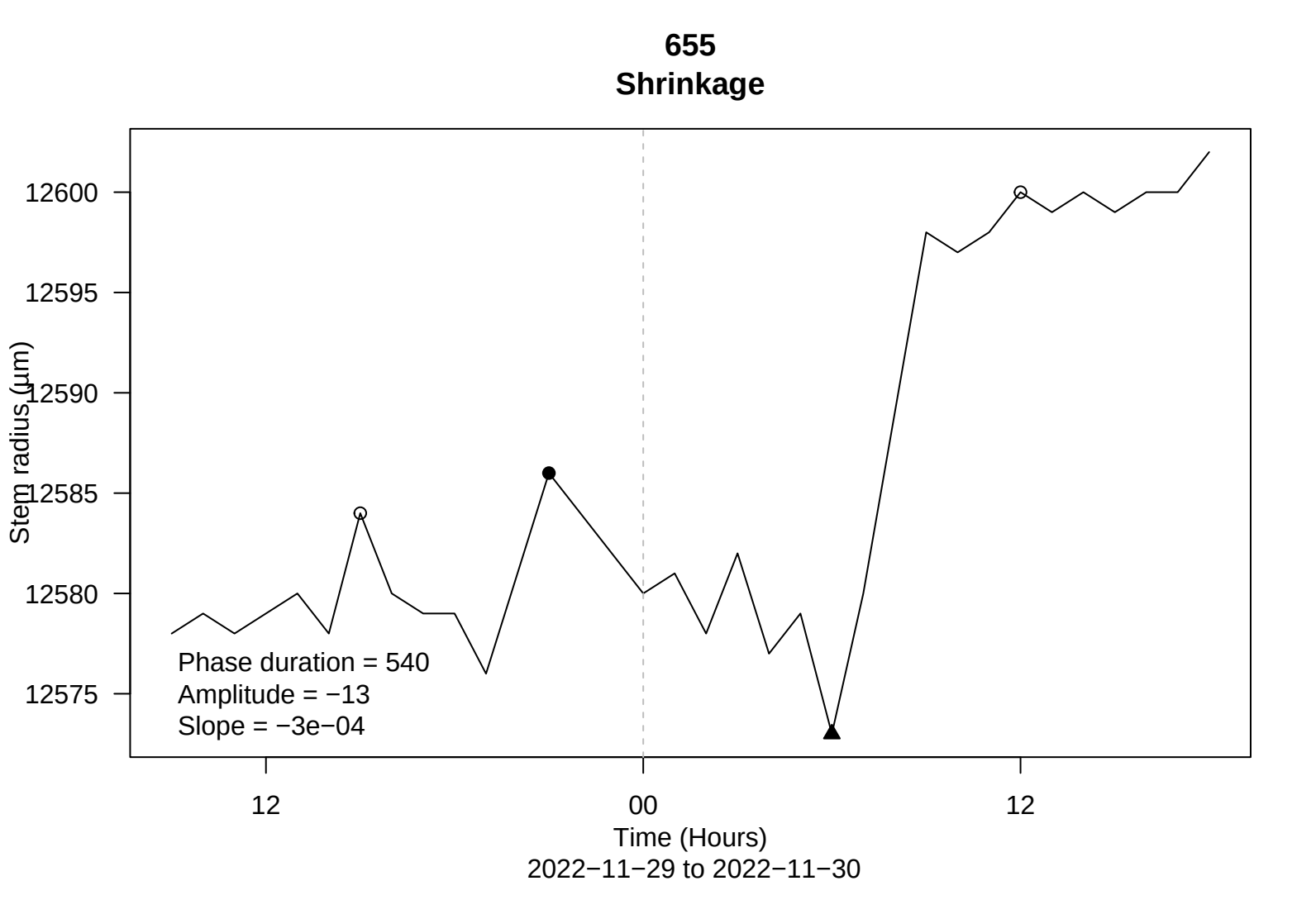

655
Shrinkage
12516
12514
12512
12510
12508
Stem radius (µm)
Phase duration = 480
Amplitude = −6
Slope = −2e−04
00
12
00
Time (Hours)
2022−11−25 to 2022−11−25

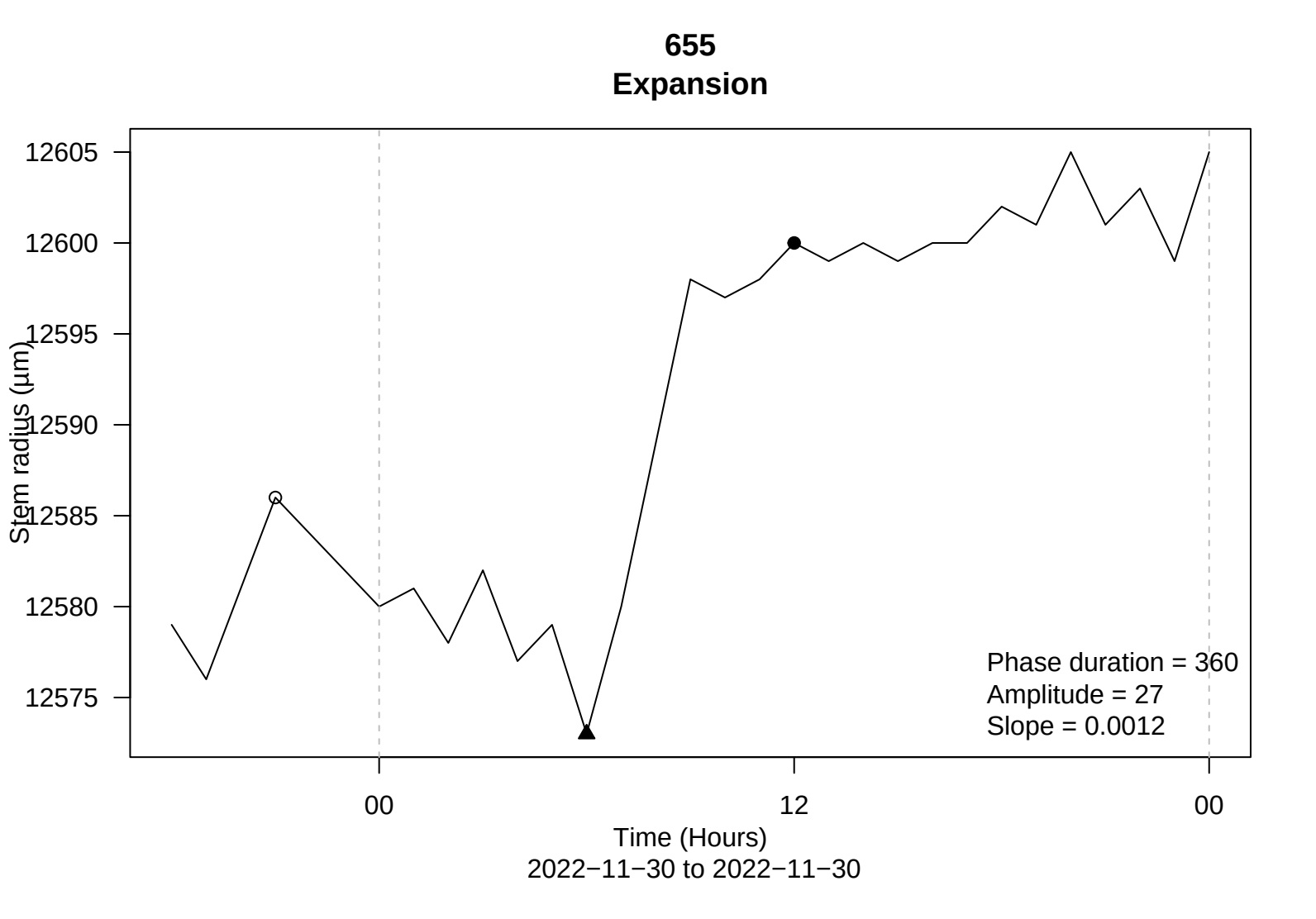

655
Expansion
12580
12570
12560
12550
12540
12530
12520
12510
Stem radius (µm)
Phase duration = 1200
Amplitude = 60
Slope = 9e−04
12
00
12
00
Time (Hours)
2022−11−26 to 2022−11−27

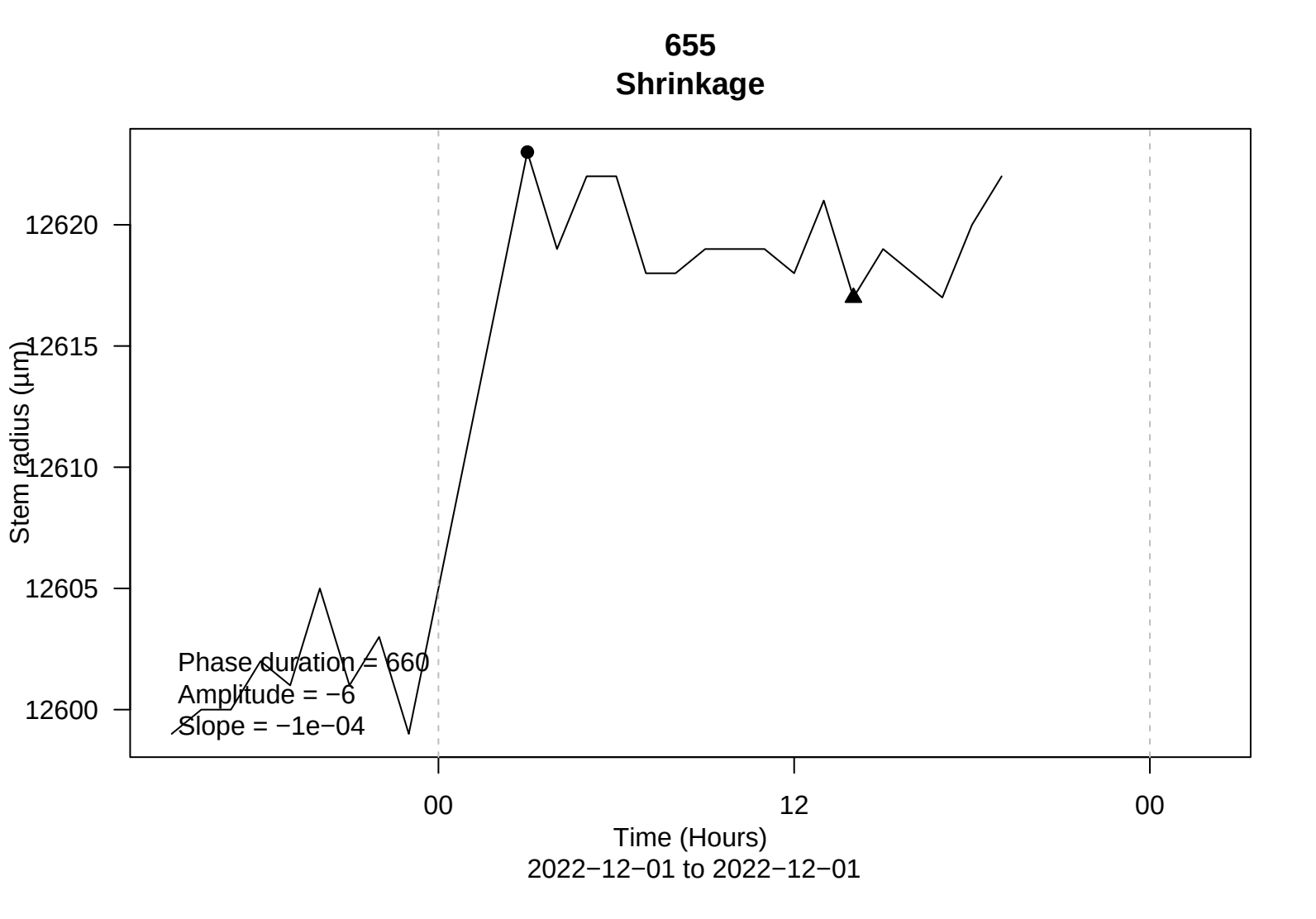

655
Expansion
12580
12570
12560
12550
12540
12530
12520
Stem radius (µm)
Phase duration = 1080
Amplitude = 18
Slope = 3e−04
12
00
12
00
Time (Hours)
2022−11−27 to 2022−11−28

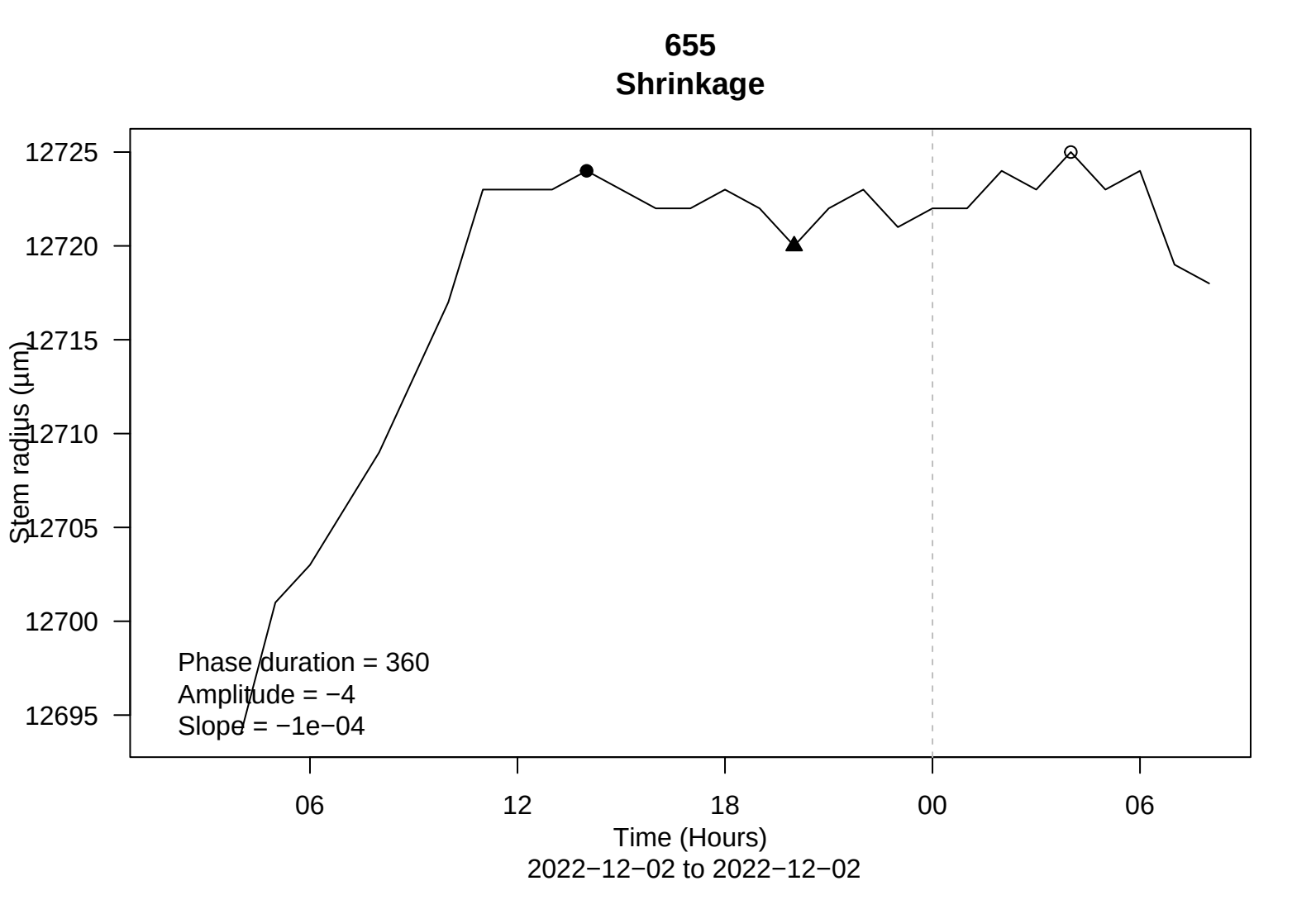

655
Shrinkage
12580
12578
12576
12574
12572
Stem radius (µm)
Phase duration = 660
Amplitude = −7
Slope = −1e−04
12
00
12
Time (Hours)
2022−11−28 to 2022−11−29

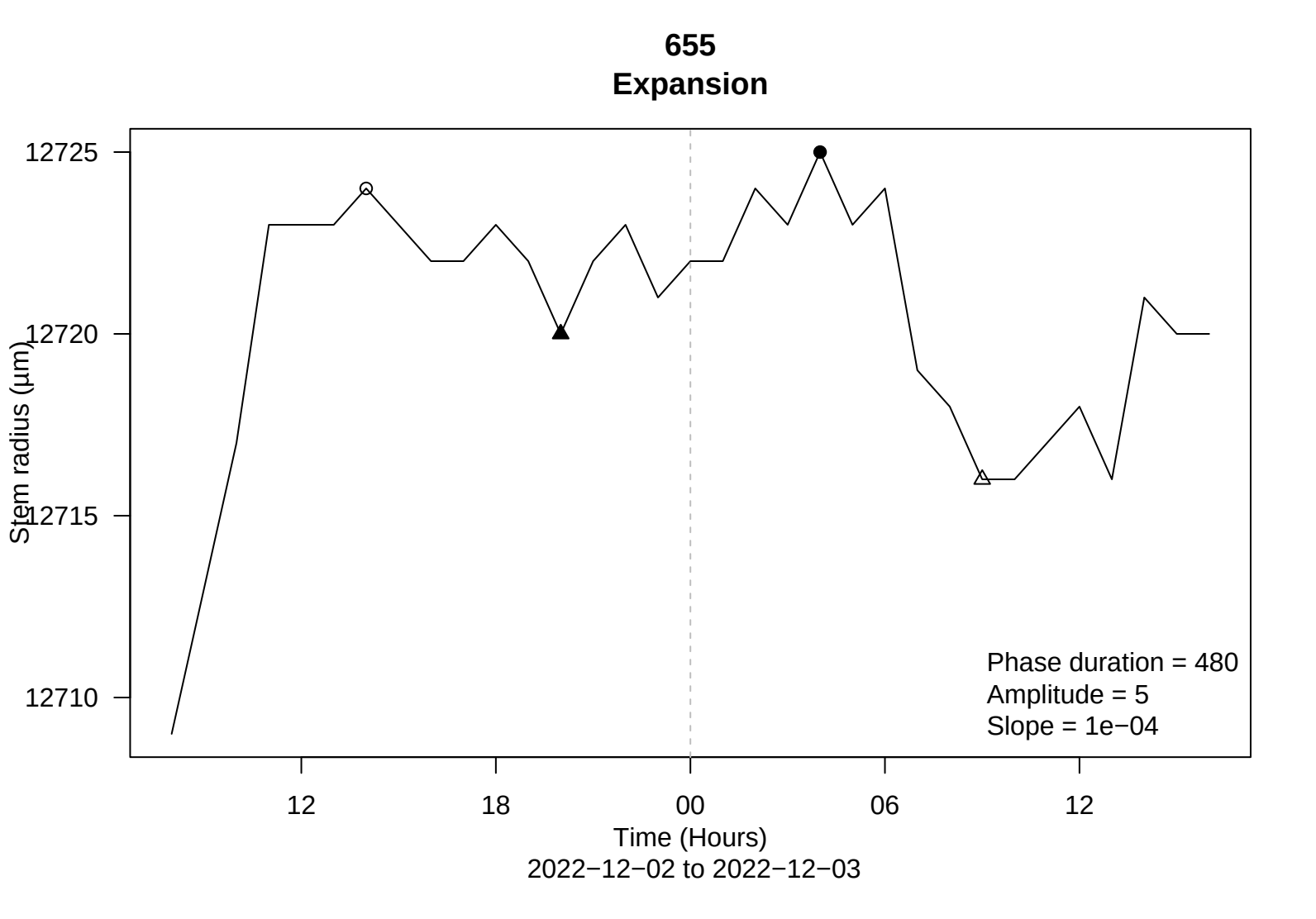

655
Expansion
12586
12584
12582
12580
12578
12576
12574
12572
Stem radius (µm)
Phase duration = 780
Amplitude = 12
Slope = 1e−04
00
12
00
Time (Hours)
2022−11−29 to 2022−11−29

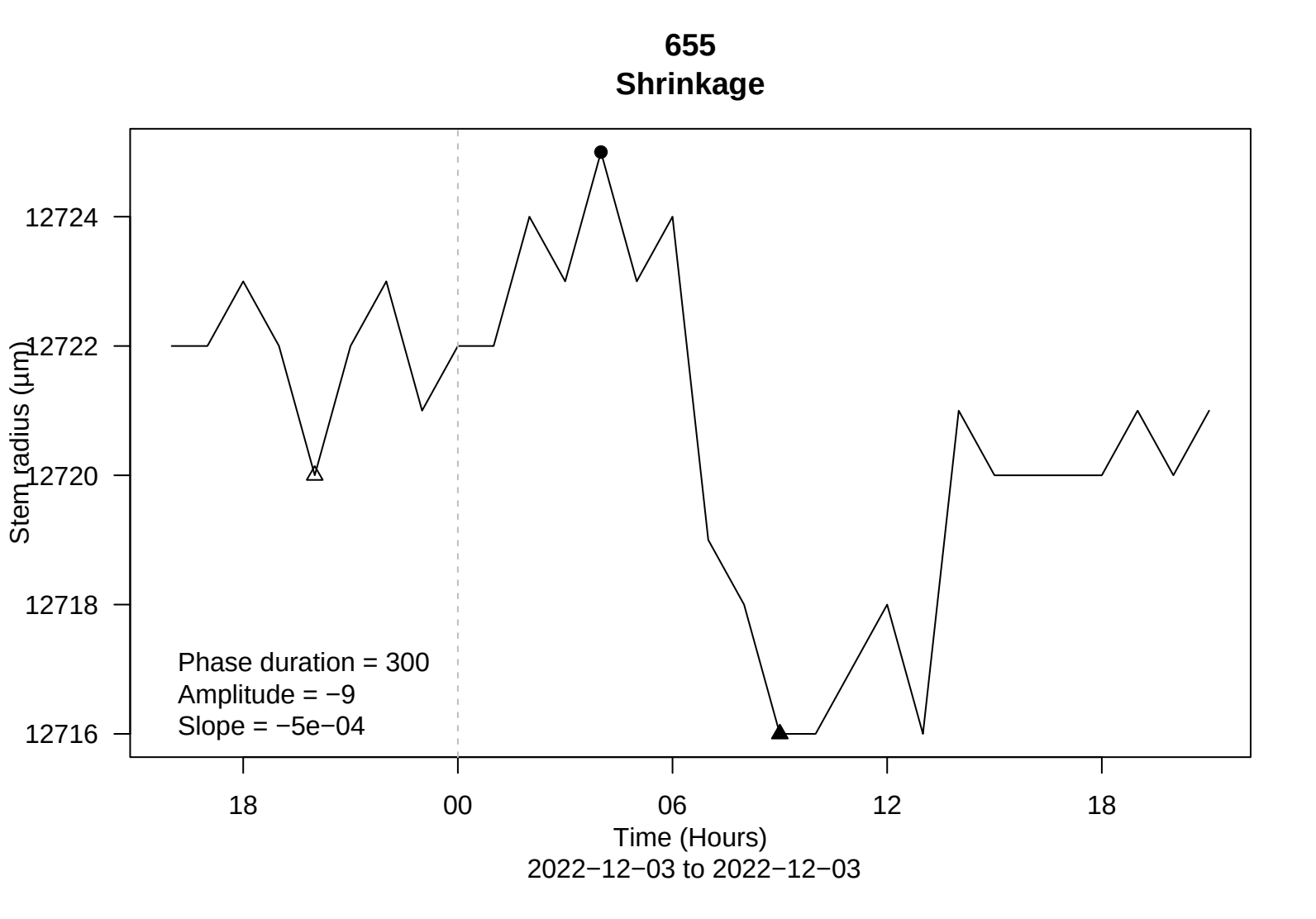

655
Shrinkage
12600
12595
12590
12585
12580
12575
Stem radius (µm)
Phase duration = 540
Amplitude = −13
Slope = −3e−04
12
00
12
Time (Hours)
2022−11−29 to 2022−11−30

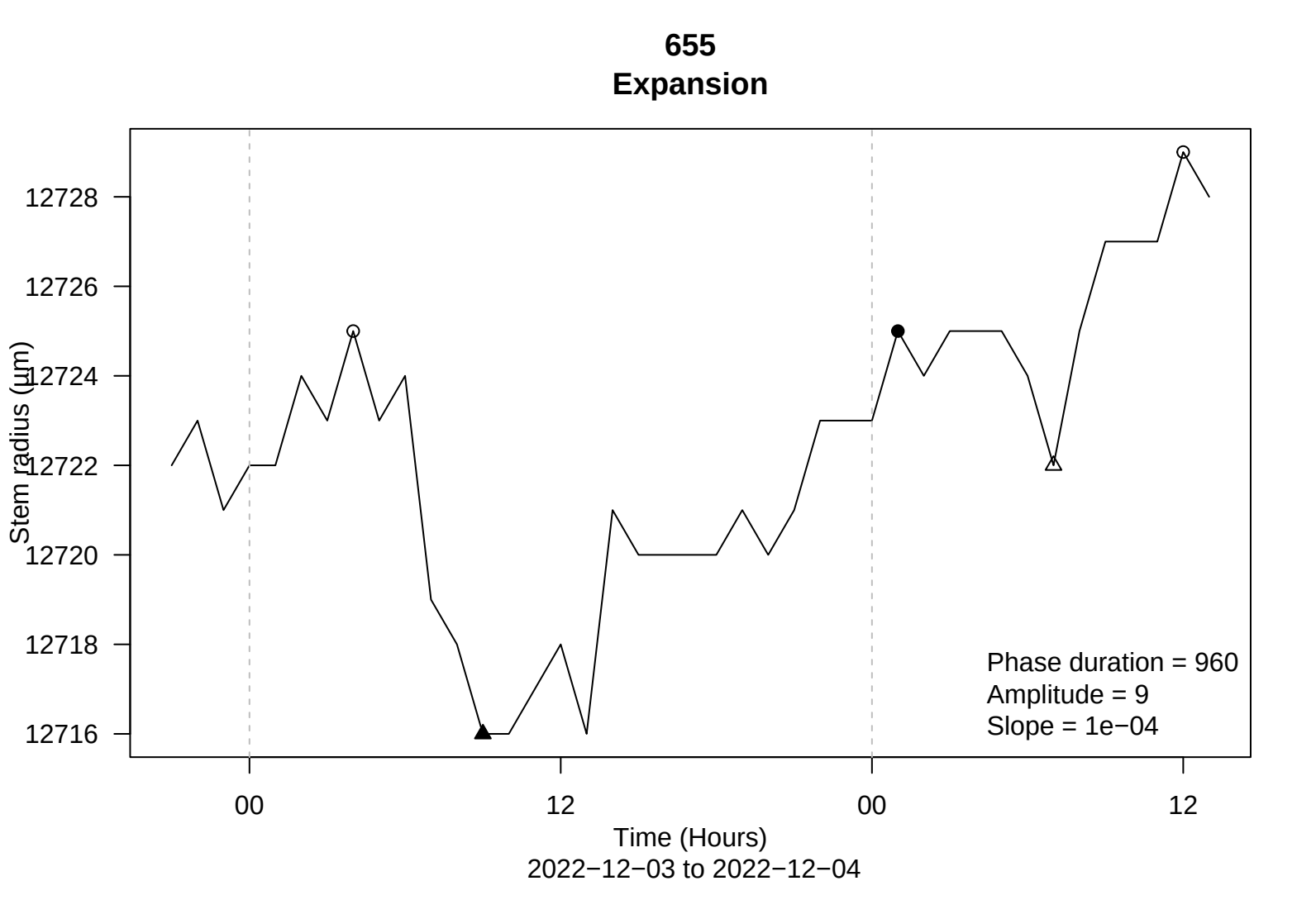

655
Expansion
12605
12600
12595
12590
12585
12580
12575
Stem radius (µm)
Phase duration = 360
Amplitude = 27
Slope = 0.0012
00
12
00
Time (Hours)
2022−11−30 to 2022−11−30

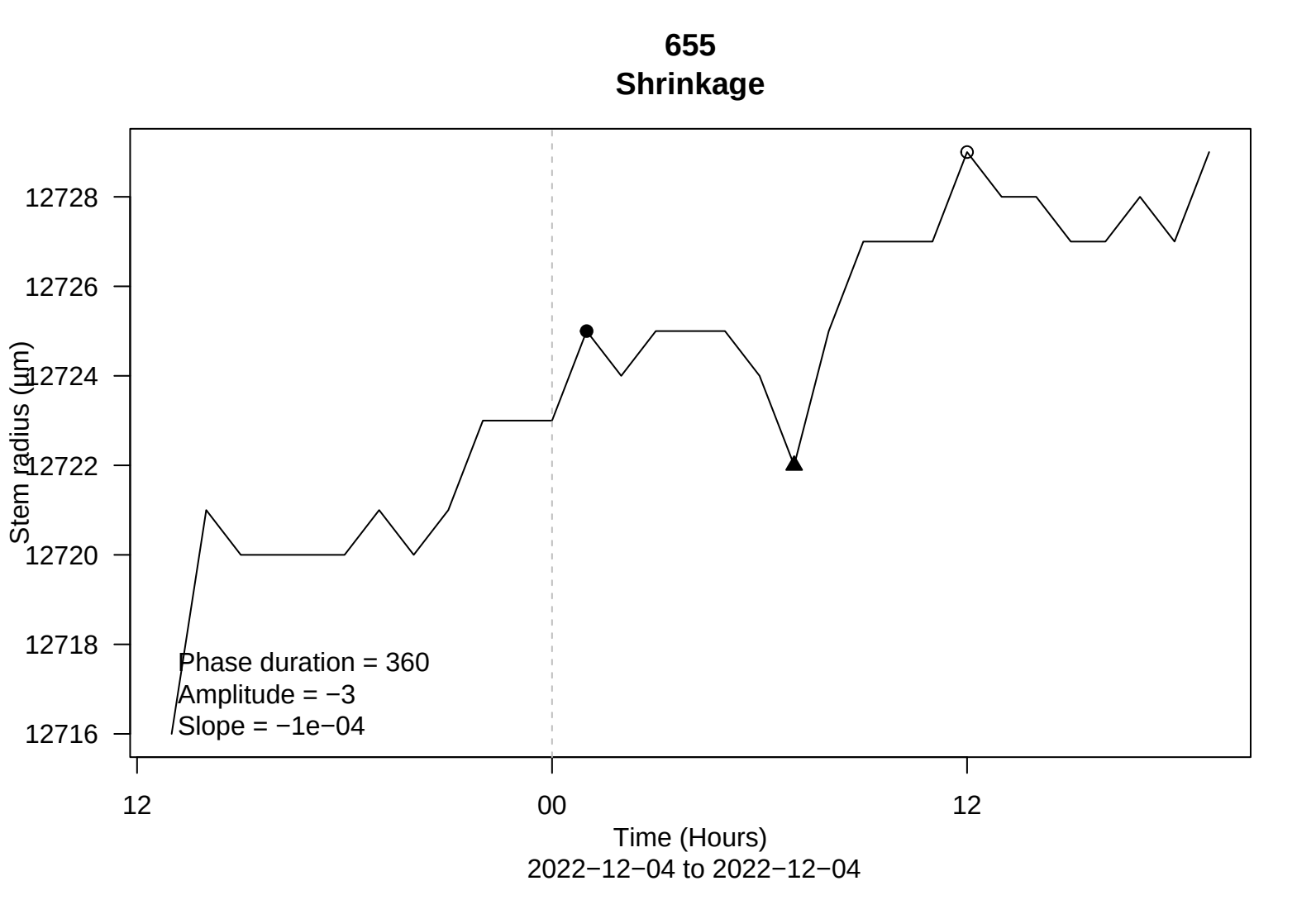

655
Shrinkage
12620
12615
12610
12605
12600
Stem radius (µm)
Phase duration = 660
Amplitude = −6
Slope = −1e−04
00
12
00
Time (Hours)
2022−12−01 to 2022−12−01

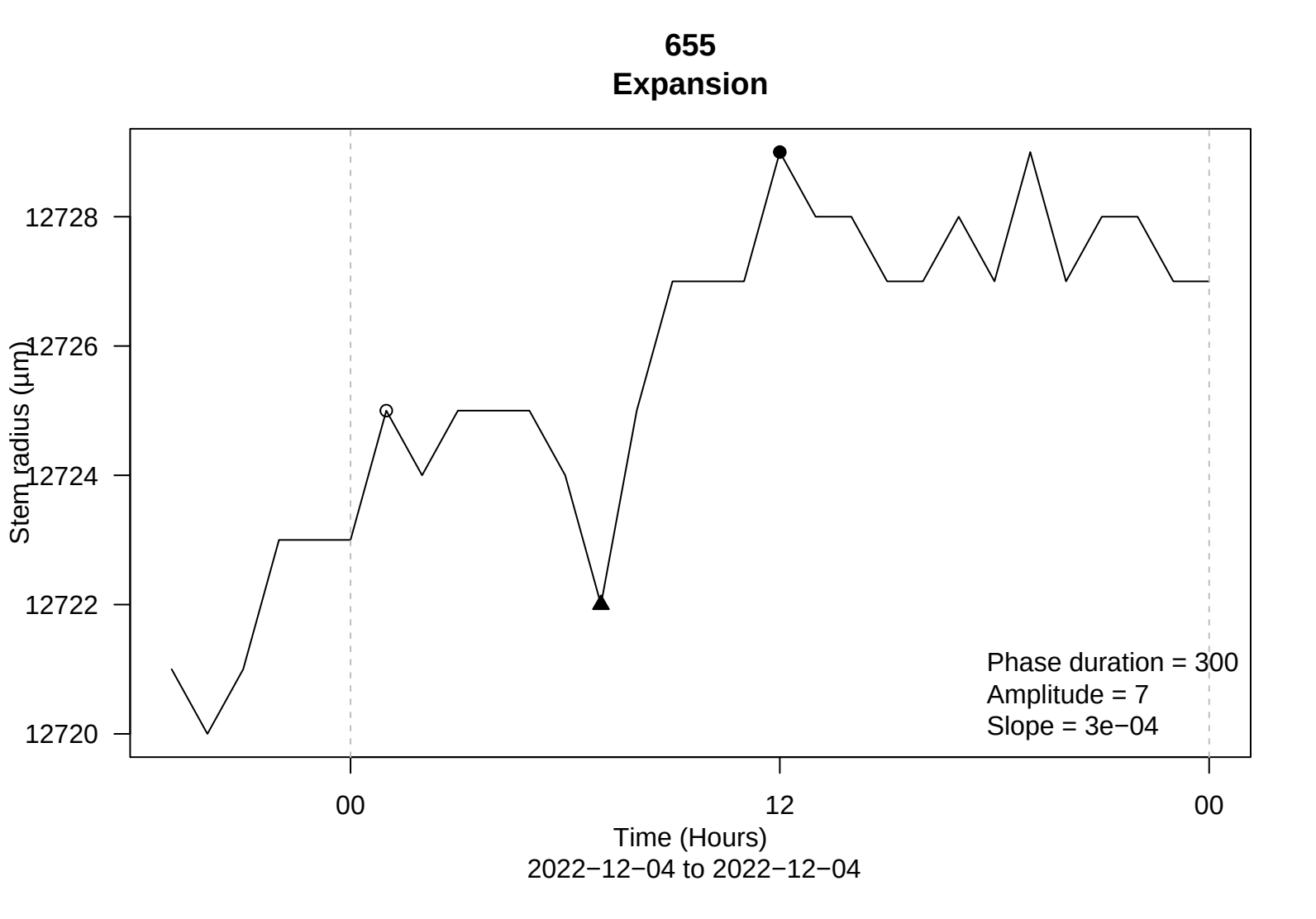

655
Shrinkage
12725
12720
12715
12710
12705
12700
12695
Stem radius (µm)
Phase duration = 360
Amplitude = −4
Slope = −1e−04
06
12
18
00
06
Time (Hours)
2022−12−02 to 2022−12−02

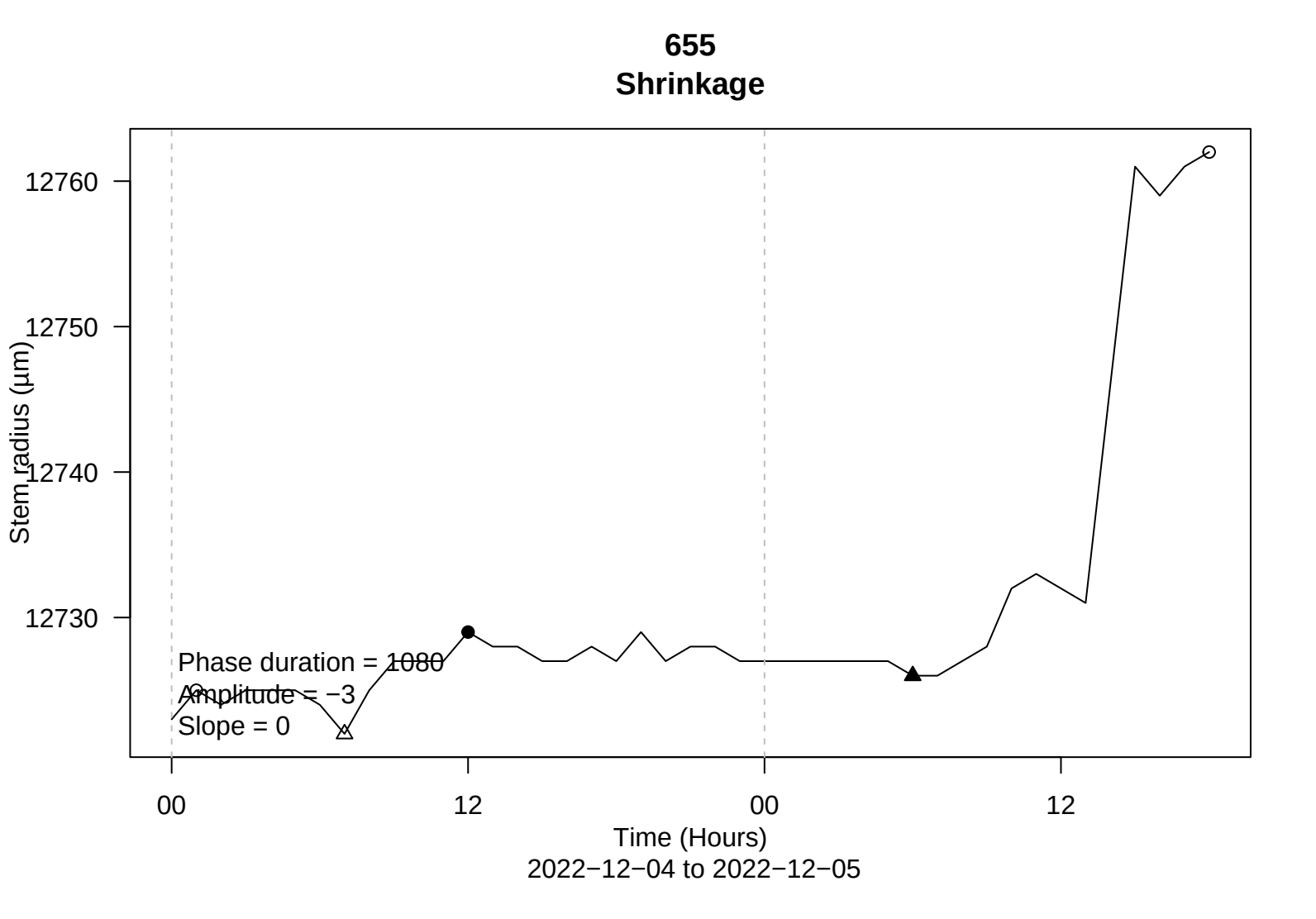

655
Expansion
12725
12720
12715
12710
Stem radius (µm)
Phase duration = 480
Amplitude = 5
Slope = 1e−04
12
18
00
06
12
Time (Hours)
2022−12−02 to 2022−12−03

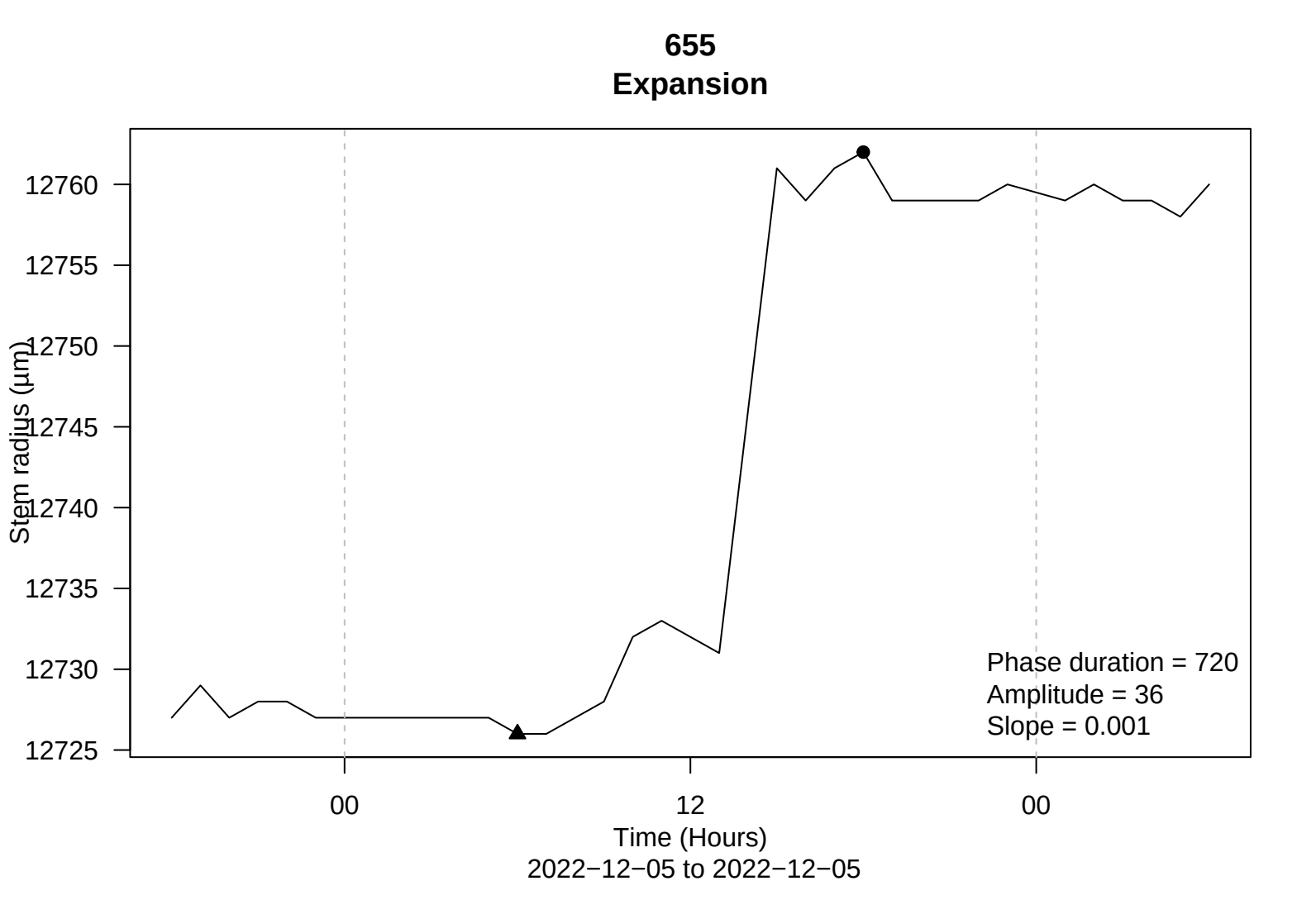

655
Shrinkage
12724
12722
12720
12718
12716
Stem radius (µm)
Phase duration = 300
Amplitude = −9
Slope = −5e−04
18
00
06
12
18
Time (Hours)
2022−12−03 to 2022−12−03

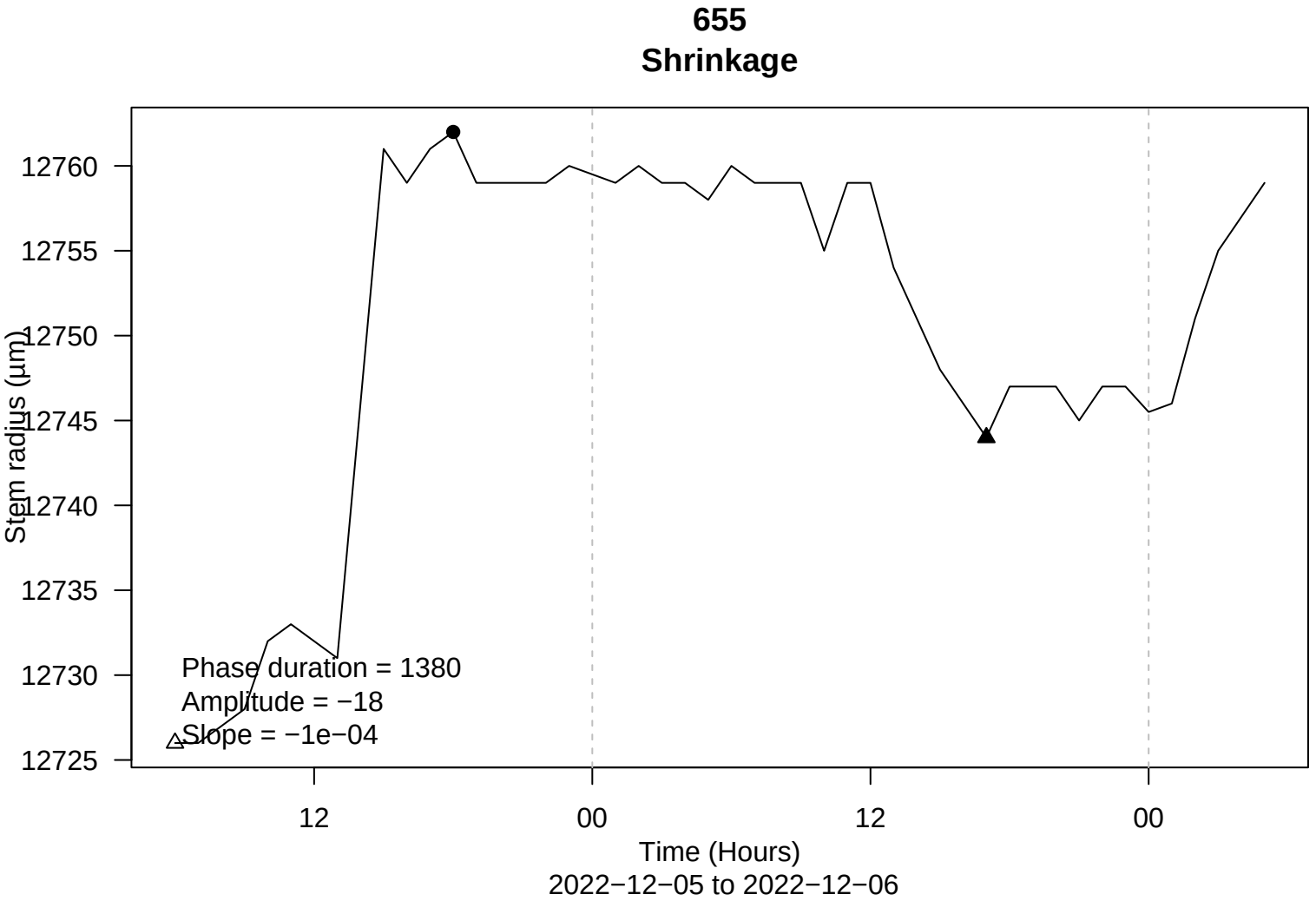

655
Expansion
12728
12726
12724
12722
12720
12718
12716
Stem radius (µm)
00
12
00
12
Time (Hours)
2022−12−03 to 2022−12−04
Phase duration = 960
Amplitude = 9
Slope = 1e−04

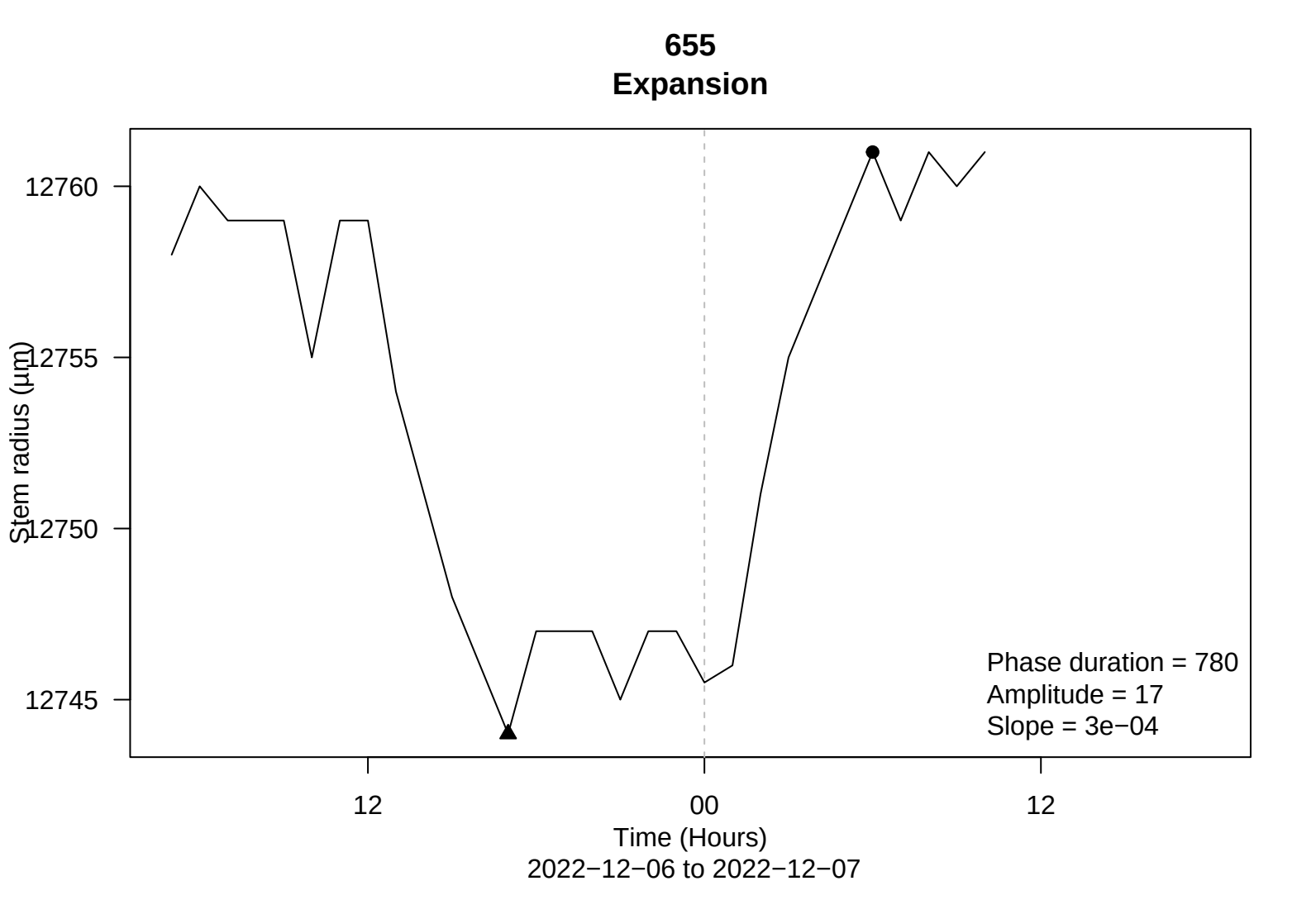

655
Shrinkage
12728
12726
12724
12722
12720
12718
12716
Stem radius (µm)
Phase duration = 360
Amplitude = −3
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−04 to 2022−12−04

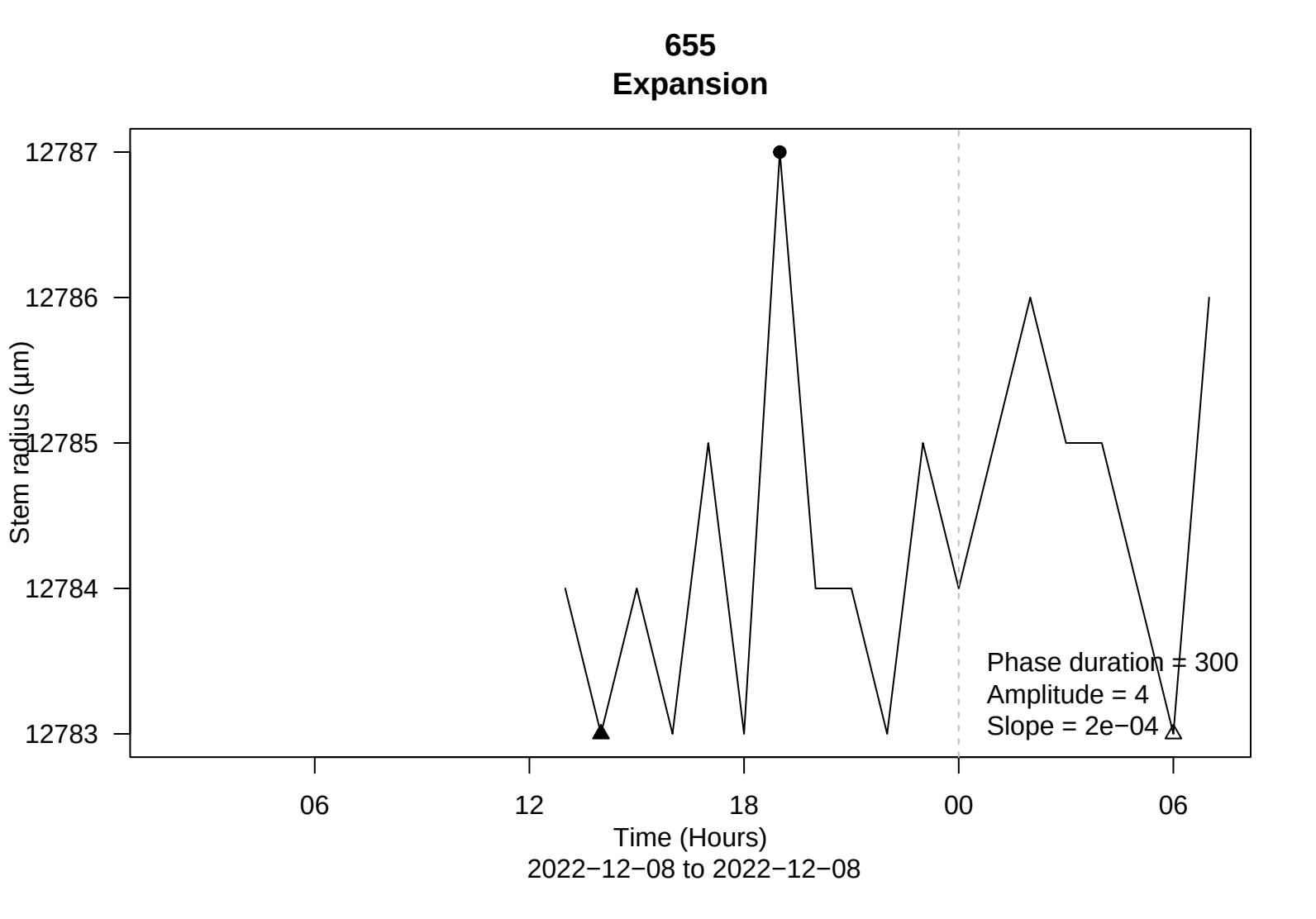

655
Expansion
12728
12726
12724
12722
12720
Stem radius (µm)
Phase duration = 300
Amplitude = 7
Slope = 3e−04
00
12
00
Time (Hours)
2022−12−04 to 2022−12−04

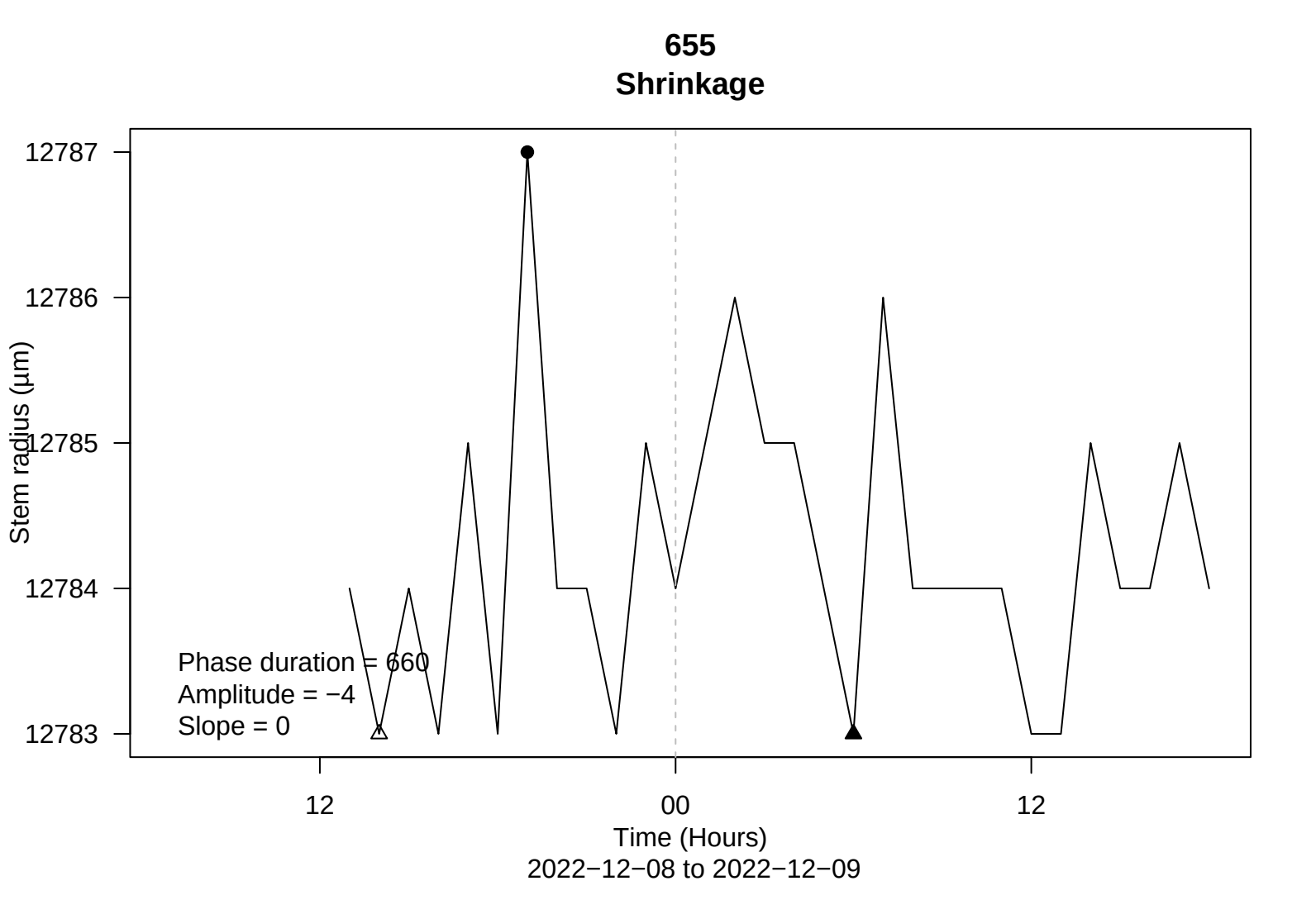

655
Shrinkage
12760
12750
12740
12730
Stem radius (µm)
Phase duration = 1080
Amplitude = −3
Slope = 0
00
12
00
12
Time (Hours)
2022−12−04 to 2022−12−05

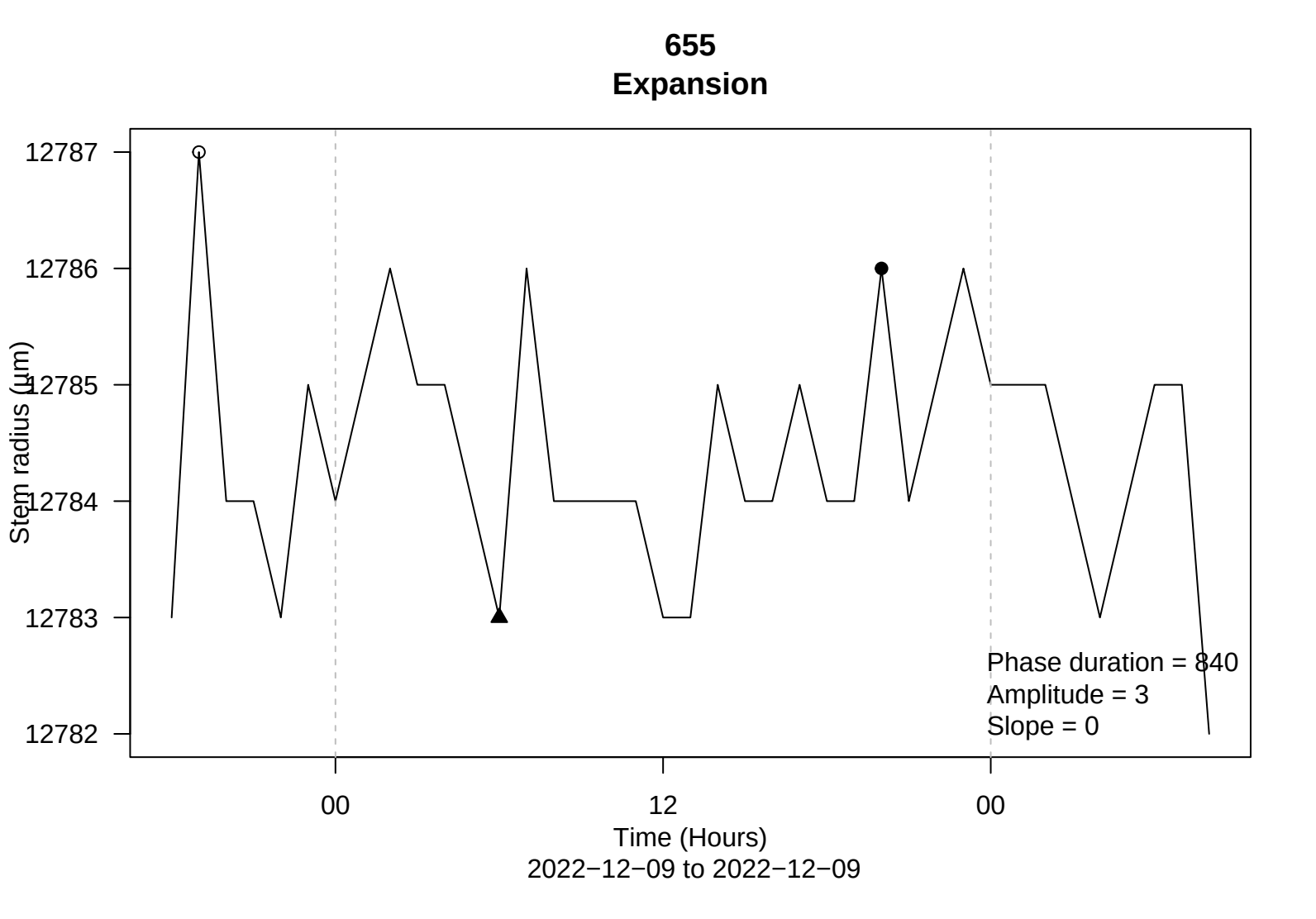

655
Expansion
12760
12755
12750
12745
12740
12735
12730
12725
Stem radius (µm)
00
12
00
Time (Hours)
2022−12−05 to 2022−12−05
Phase duration = 720
Amplitude = 36
Slope = 0.001

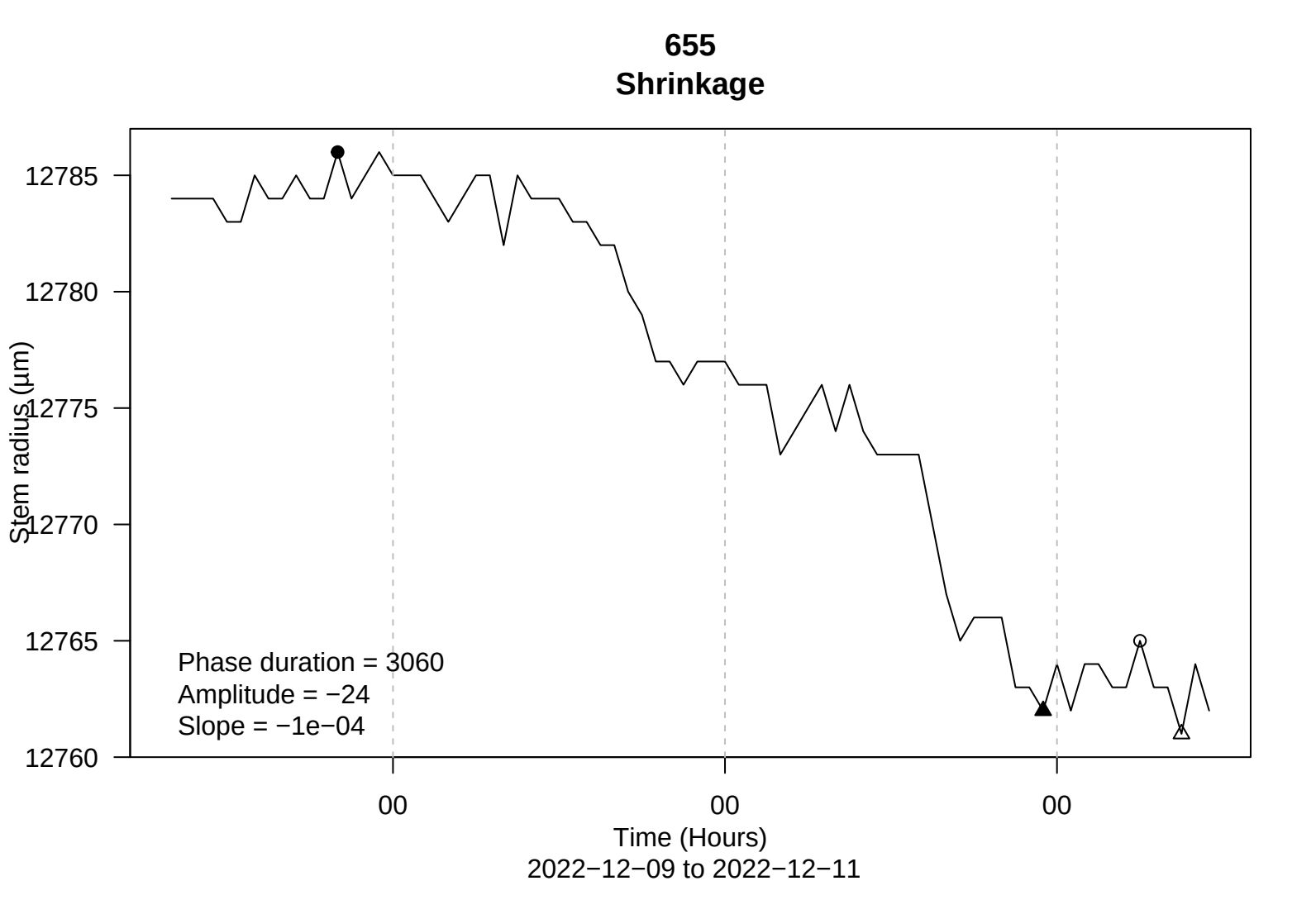

655
Shrinkage
12760
12755
12750
12745
12740
12735
12730
12725
Stem radius (µm)
Phase duration = 1380
Amplitude = −18
Slope = −1e−04
12
00
12
00
Time (Hours)
2022−12−05 to 2022−12−06

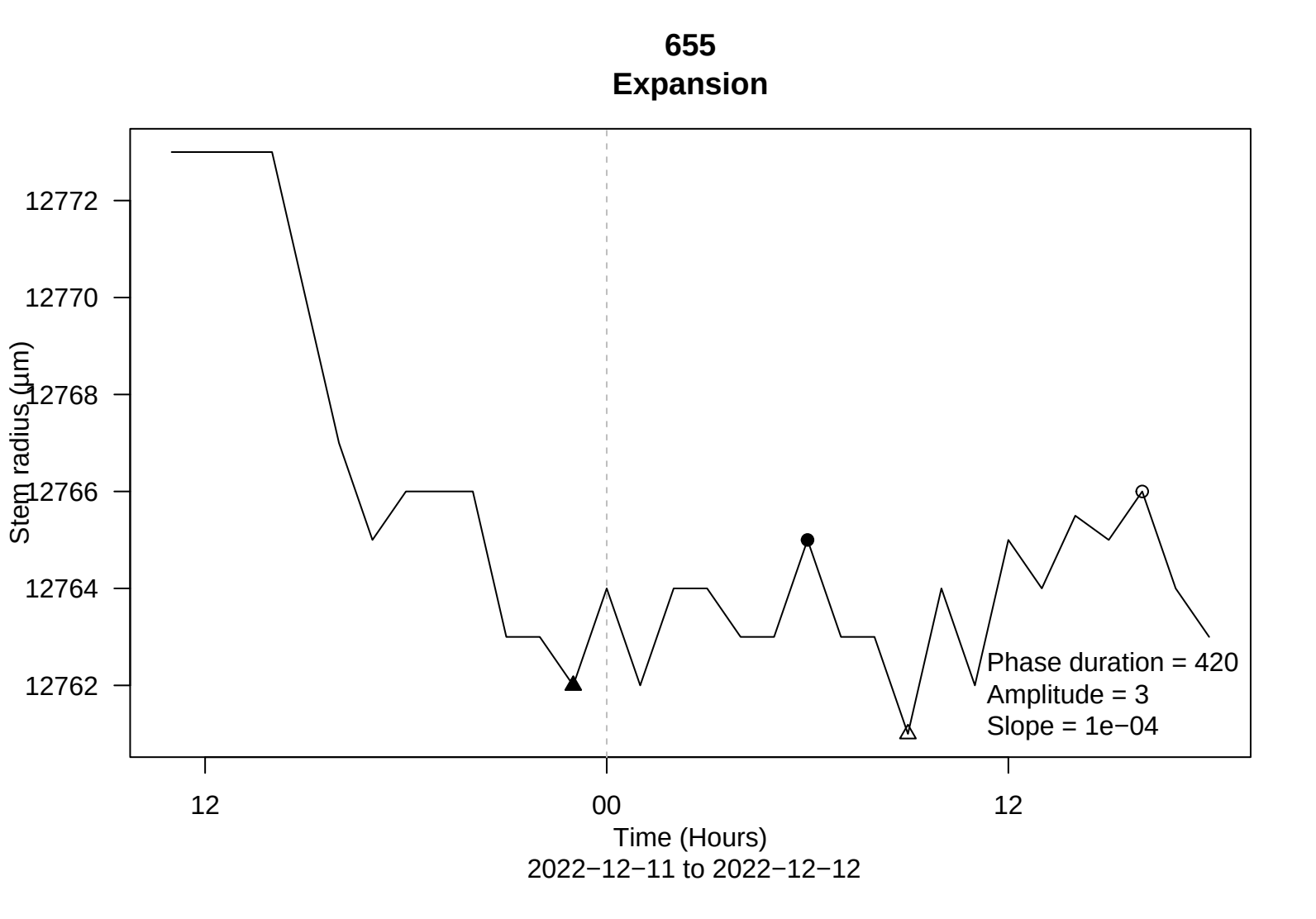

655
Expansion
12760
12755
12750
12745
Stem radius (µm)
Phase duration = 780
Amplitude = 17
Slope = 3e−04
12
00
12
Time (Hours)
2022−12−06 to 2022−12−07

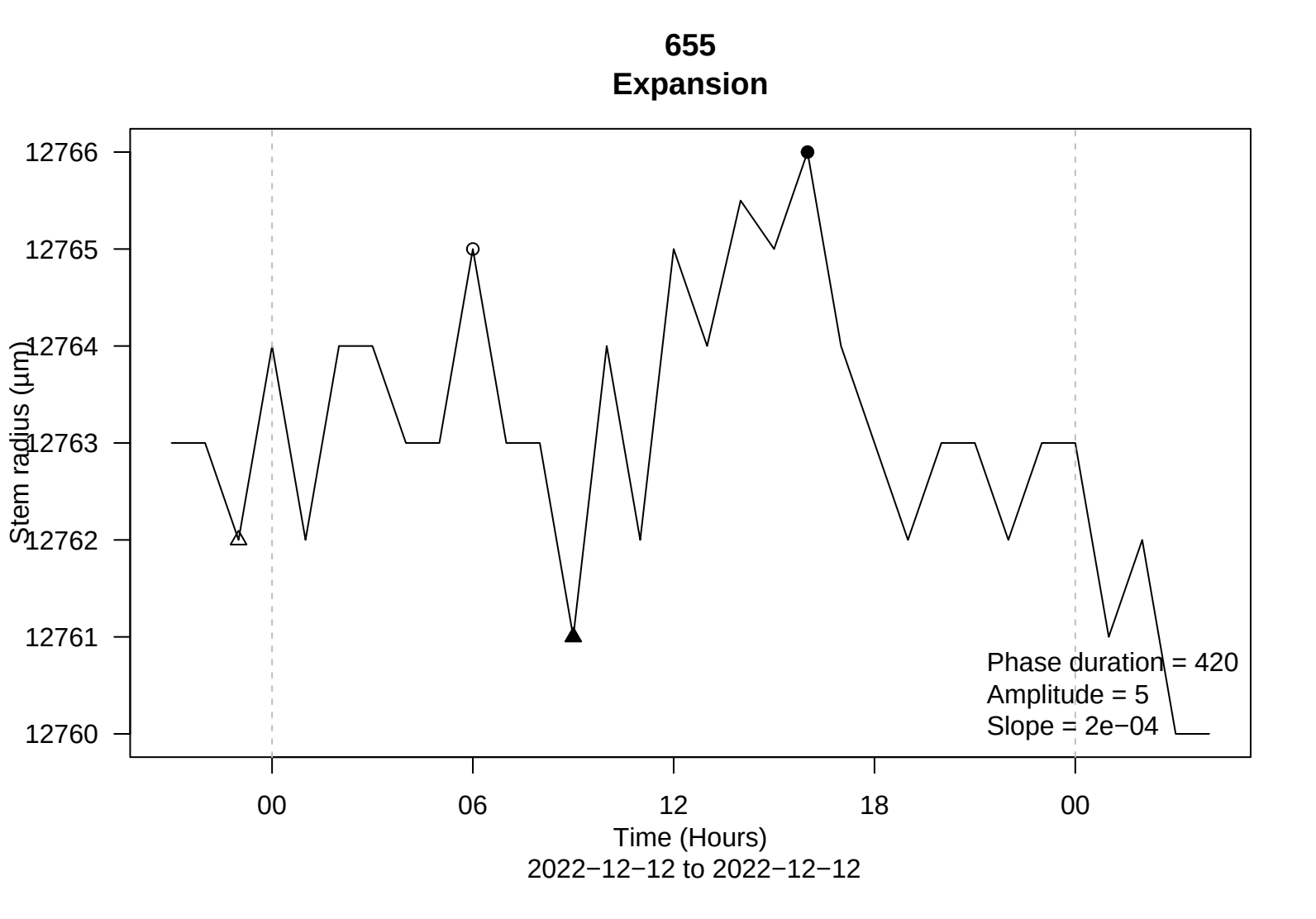

655
Expansion
12787
12786
12785
12784
12783
Stem radius (µm)
06
12
18
00
06
Time (Hours)
2022−12−08 to 2022−12−08
Phase duration = 300
Amplitude = 4
Slope = 2e−04

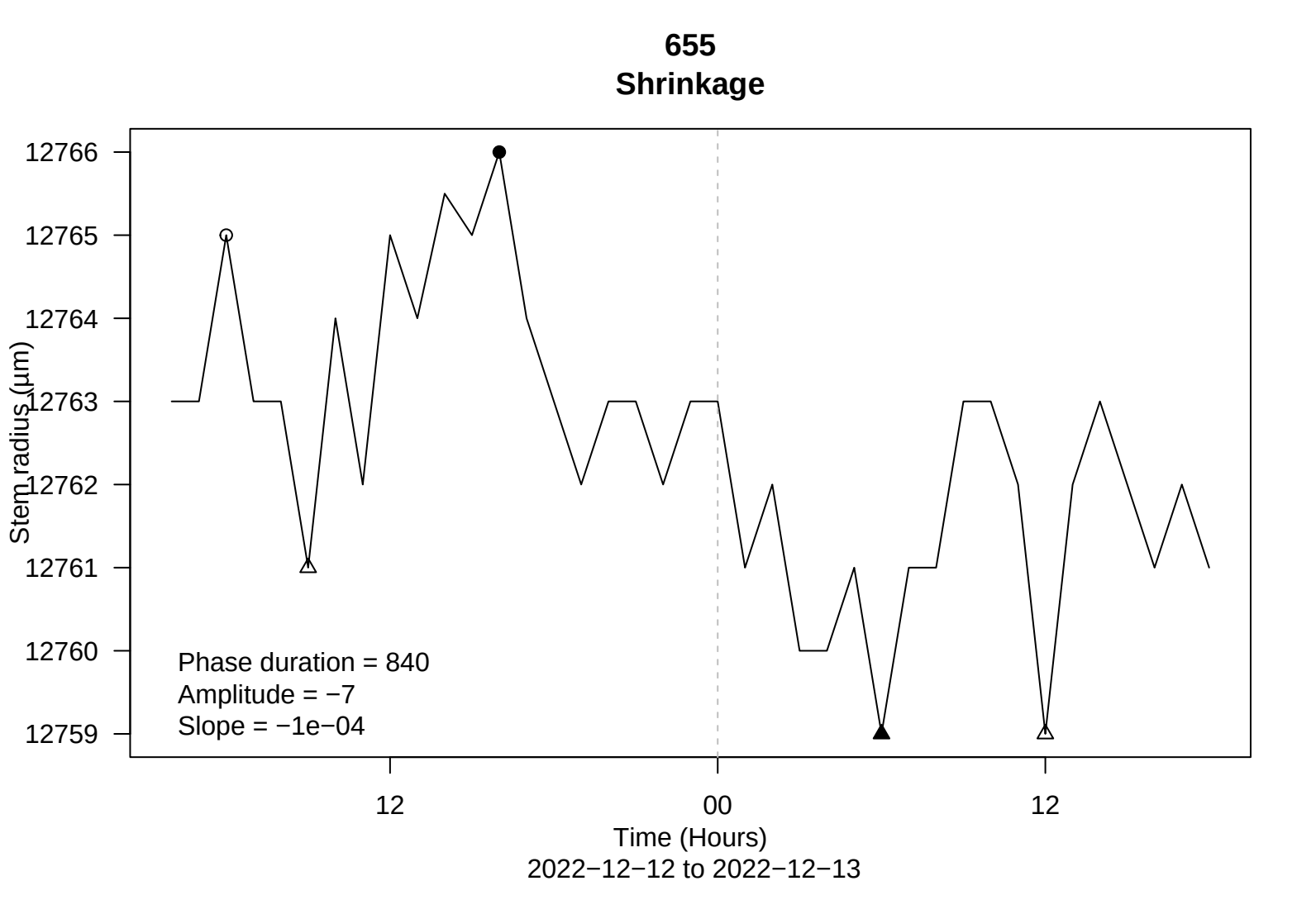

655
Shrinkage
12787
12786
12785
12784
12783
Stem radius (µm)
Phase duration = 660
Amplitude = −4
Slope = 0
12
00
12
Time (Hours)
2022−12−08 to 2022−12−09

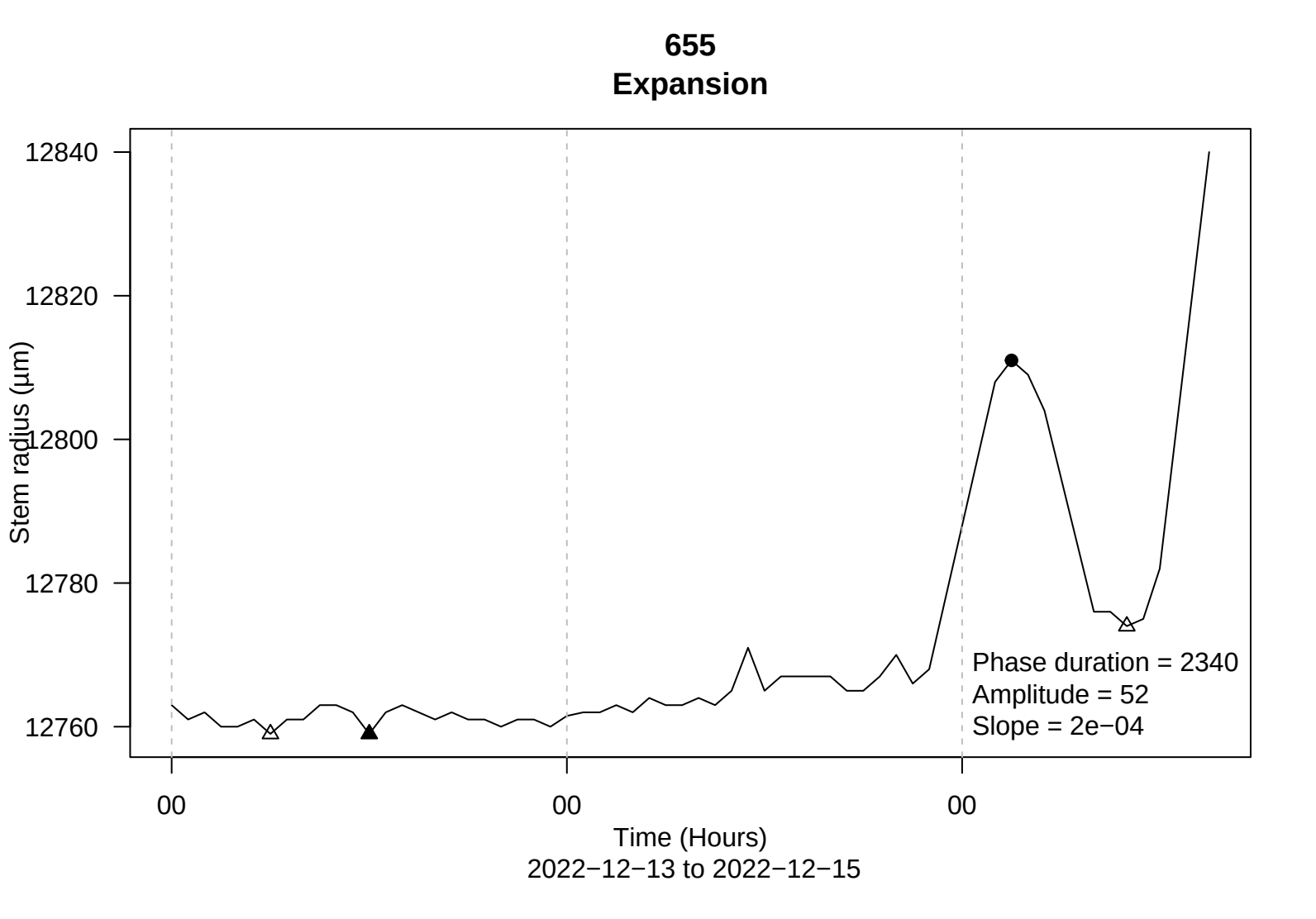

655
Expansion
12787
12786
12785
12784
12783
12782
Stem radius (µm)
Phase duration = 840
Amplitude = 3
Slope = 0
00
12
00
Time (Hours)
2022−12−09 to 2022−12−09

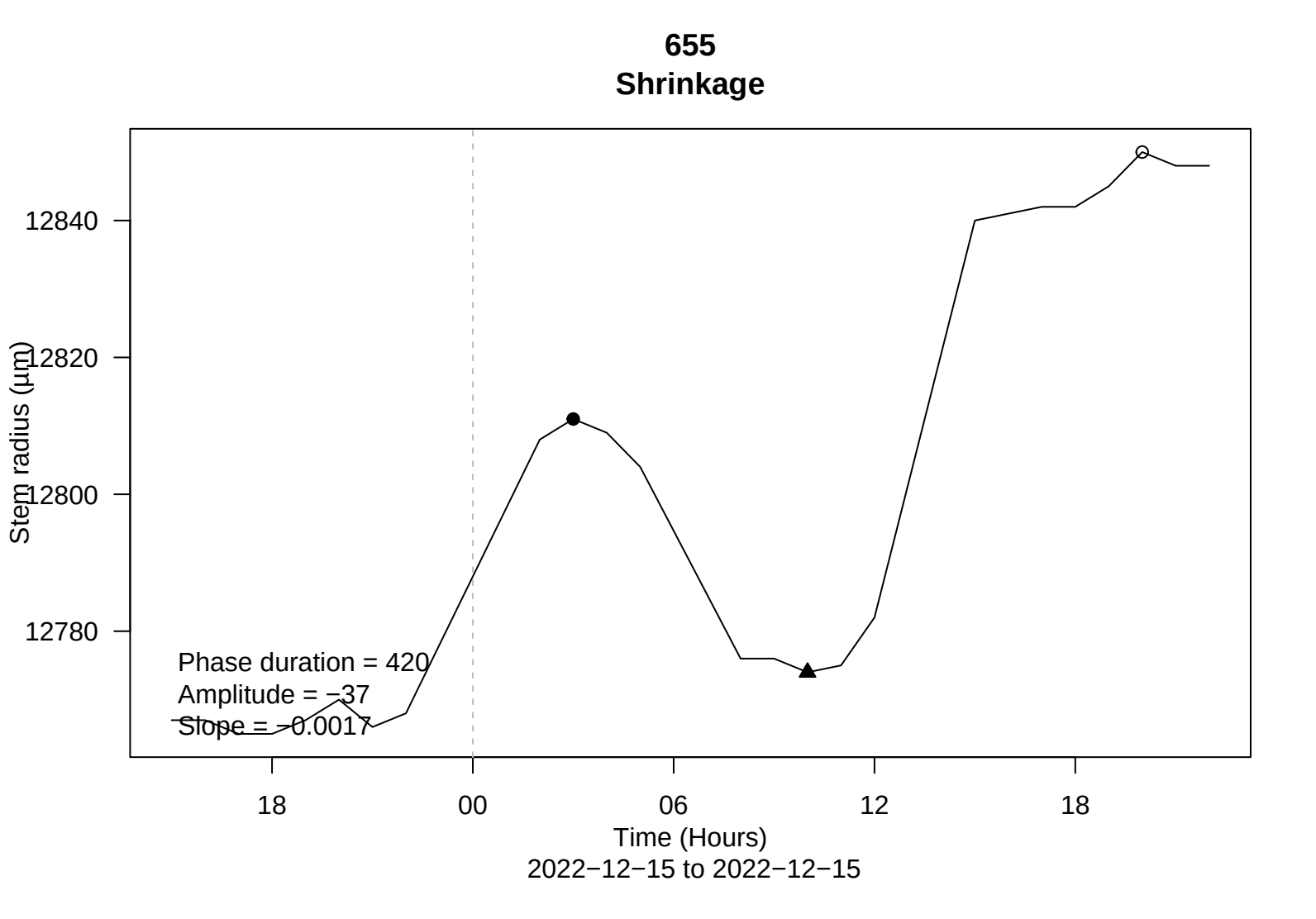

655
Shrinkage
12785
12780
12775
12770
12765
12760
Stem radius (µm)
Phase duration = 3060
Amplitude = −24
Slope = −1e−04
00
00
00
Time (Hours)
2022−12−09 to 2022−12−11

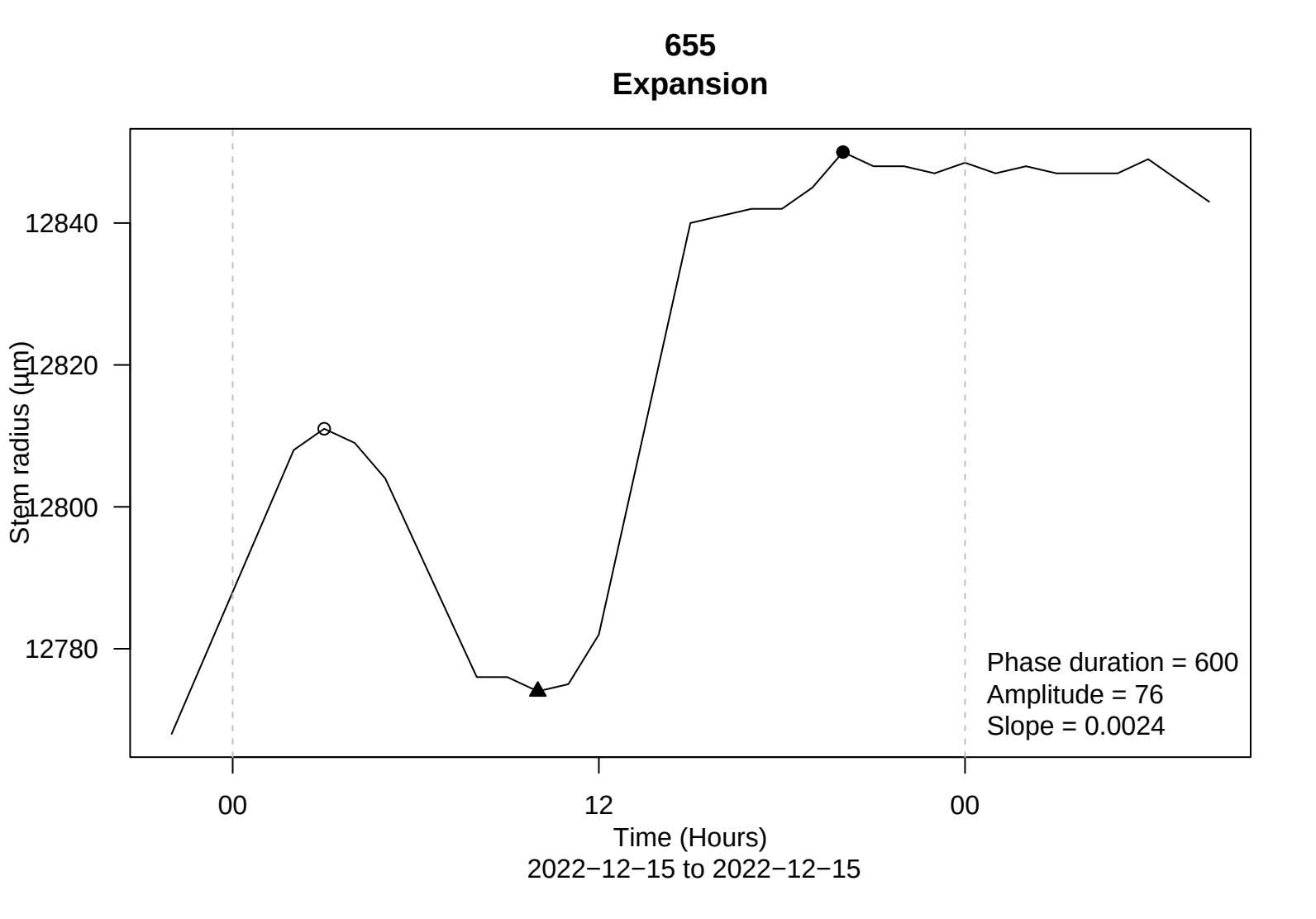

655
Expansion
12772
12770
12768
12766
12764
12762
Stem radius (µm)
Phase duration = 420
Amplitude = 3
Slope = 1e−04
12
00
12
Time (Hours)
2022−12−11 to 2022−12−12

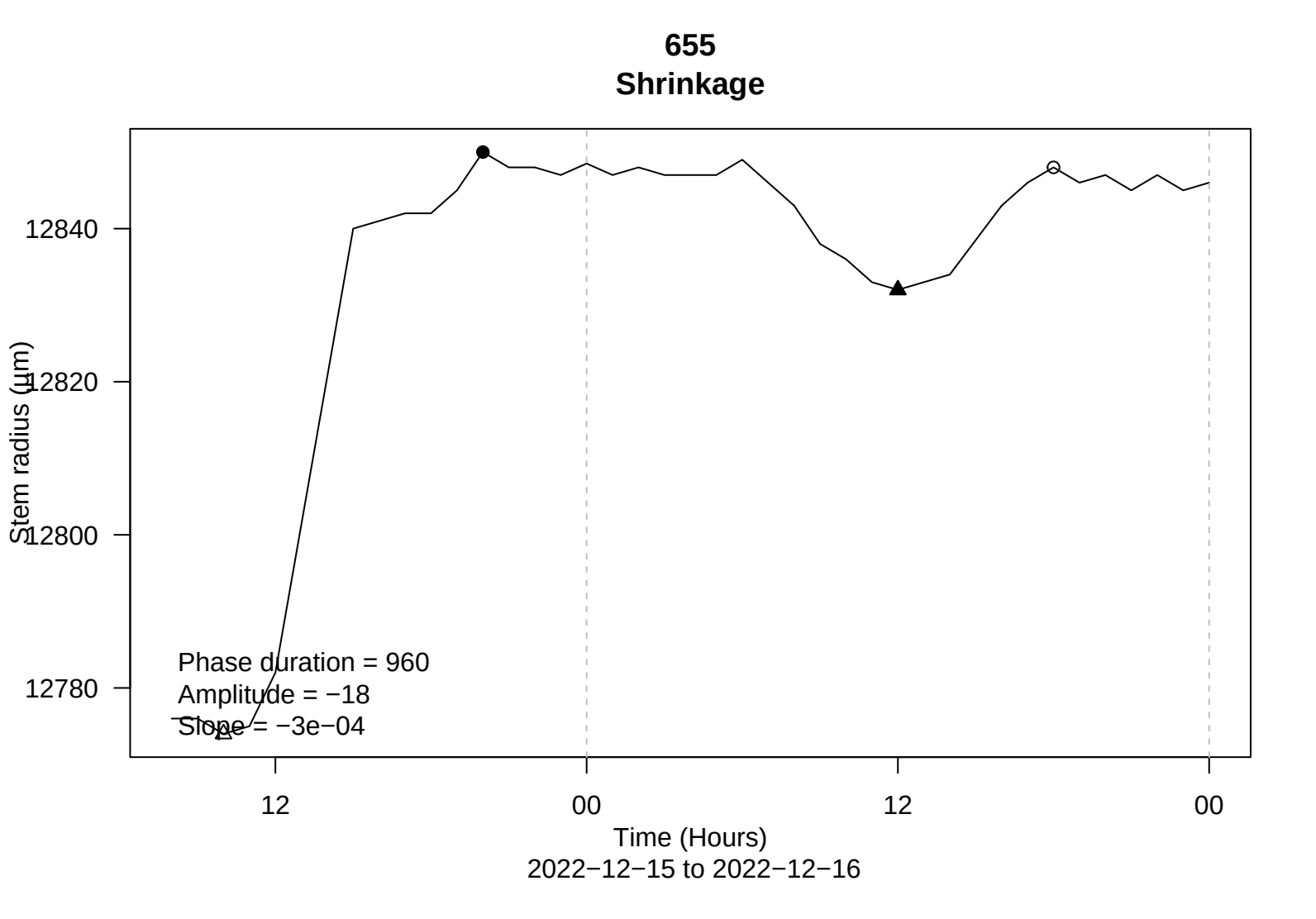

655
Expansion
12766
12765
12764
12763
12762
12761
12760
Stem radius (µm)
Phase duration = 420
Amplitude = 5
Slope = 2e−04
00
06
12
18
00
Time (Hours)
2022−12−12 to 2022−12−12

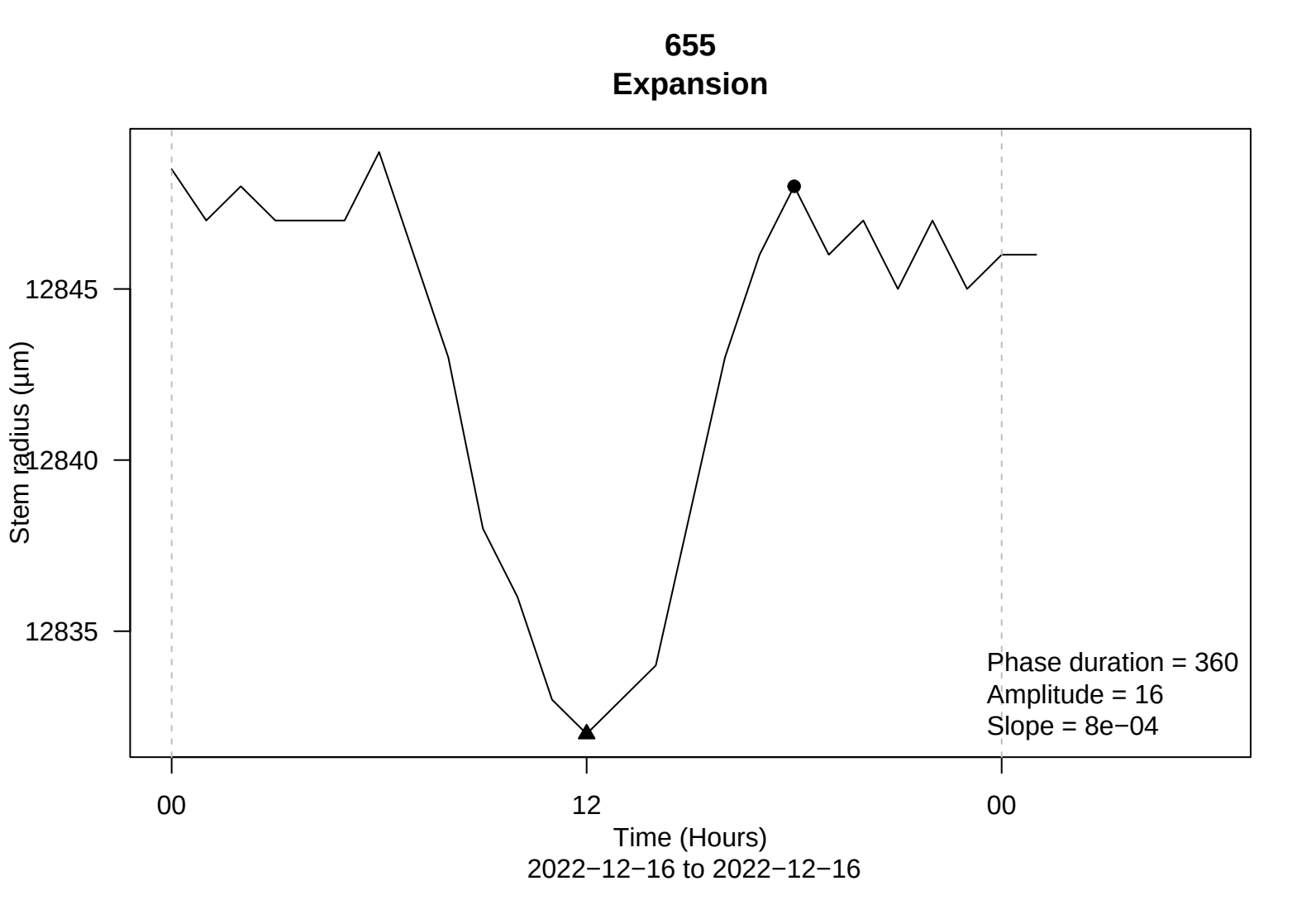

655
Shrinkage
12766
12765
12764
12763
12762
12761
12760
12759
Stem radius (µm)
Phase duration = 840
Amplitude = −7
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−12 to 2022−12−13

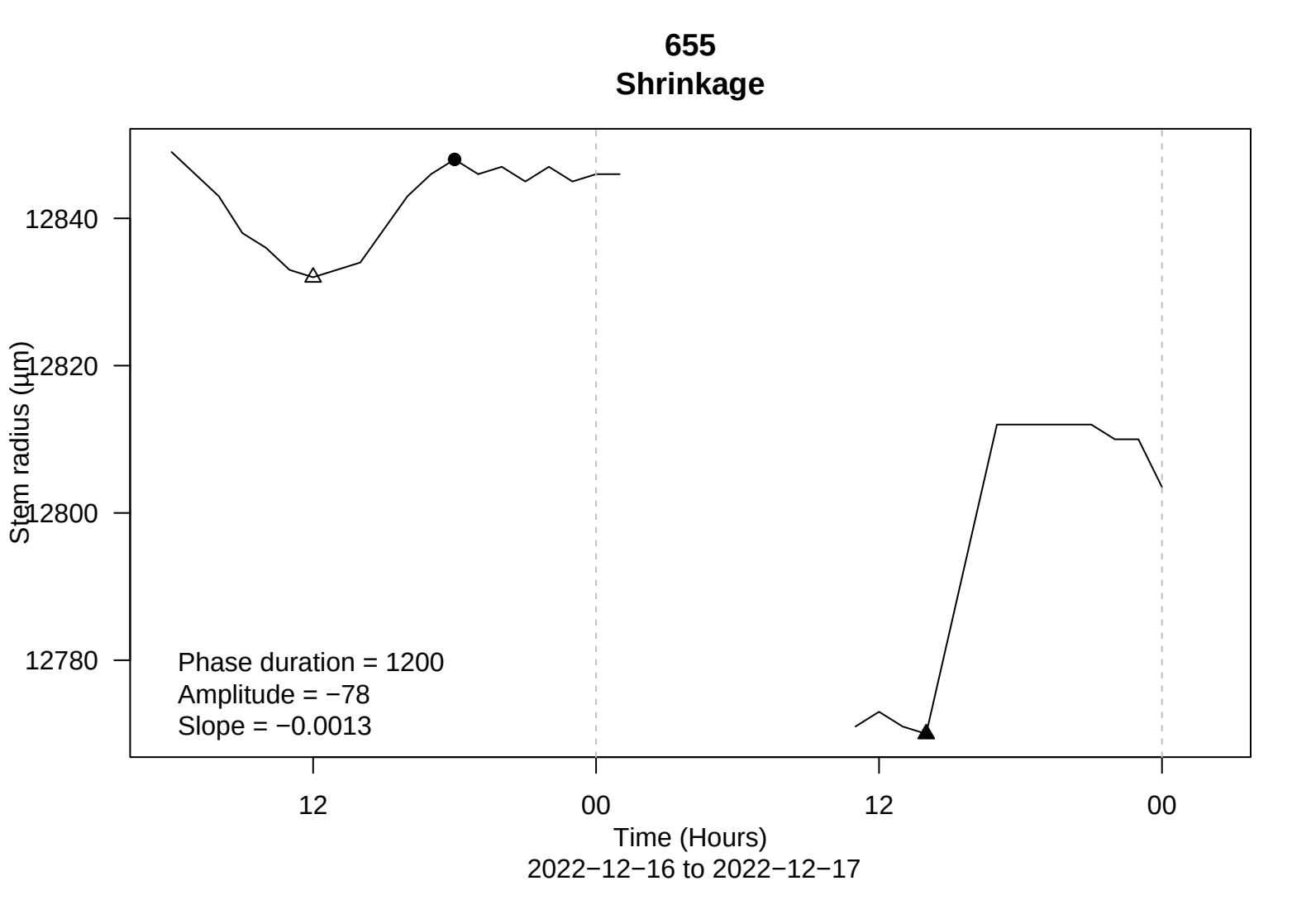

655
Expansion
12840
12820
12800
12780
12760
Stem radius (µm)
Phase duration = 2340
Amplitude = 52
Slope = 2e−04
00
00
00
Time (Hours)
2022−12−13 to 2022−12−15

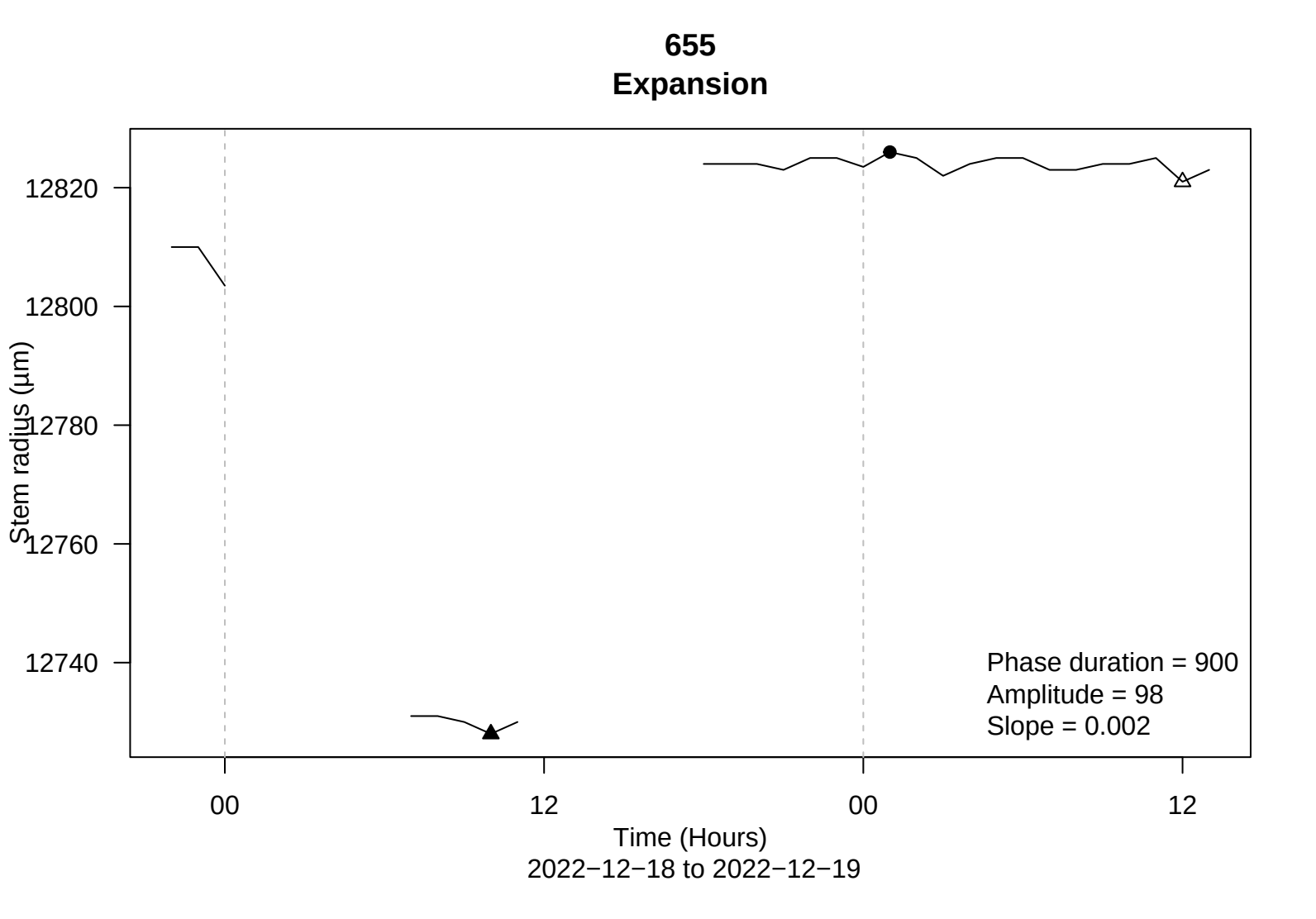

655
Shrinkage
12840
12820
12800
12780
Stem radius (µm)
Phase duration = 420
Amplitude = −37
Slope = −0.0017
18
00
06
12
18
Time (Hours)
2022−12−15 to 2022−12−15

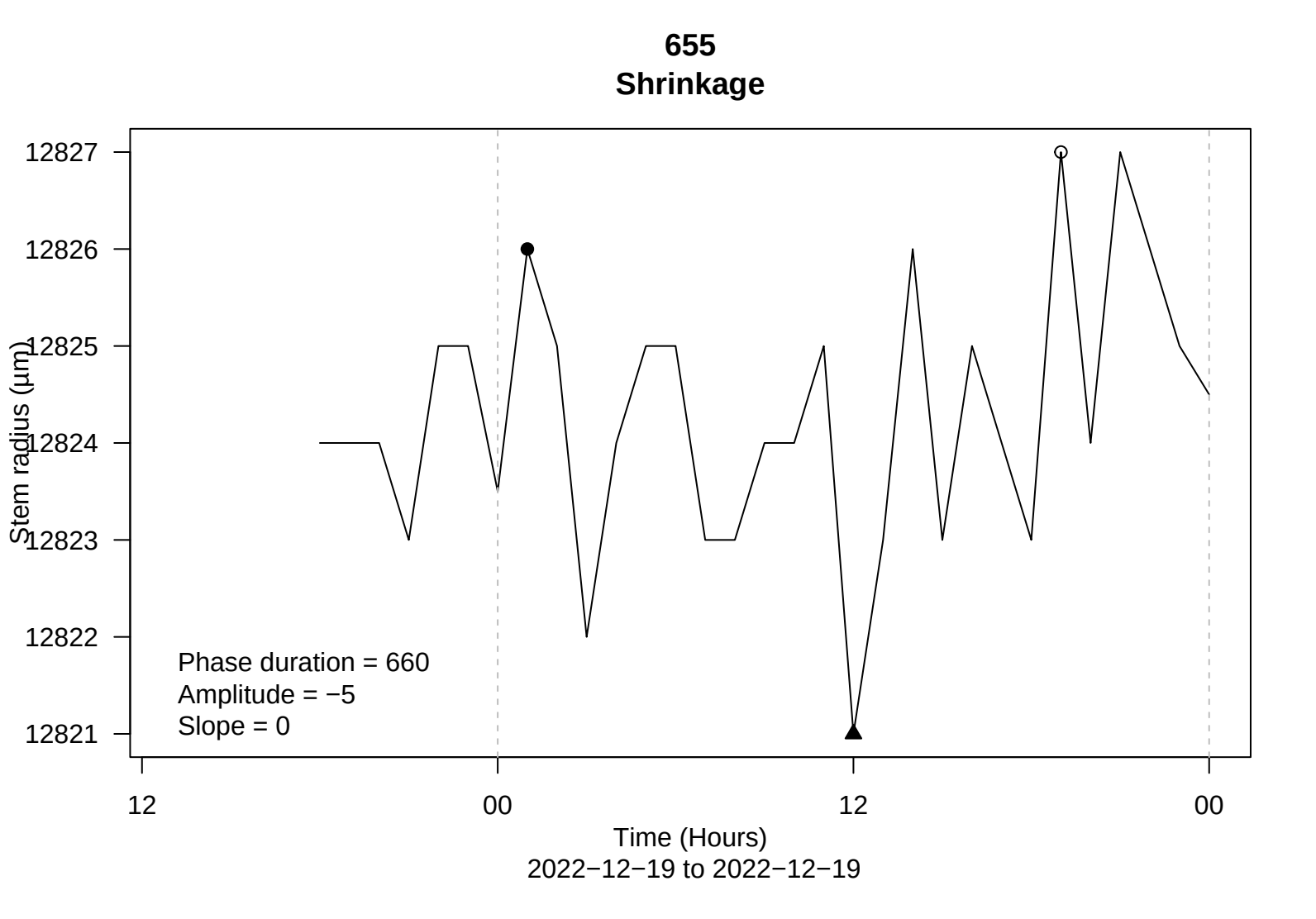

655
Expansion
12840
12820
12800
12780
Stem radius (µm)
Phase duration = 600
Amplitude = 76
Slope = 0.0024
00
12
00
Time (Hours)
2022−12−15 to 2022−12−15

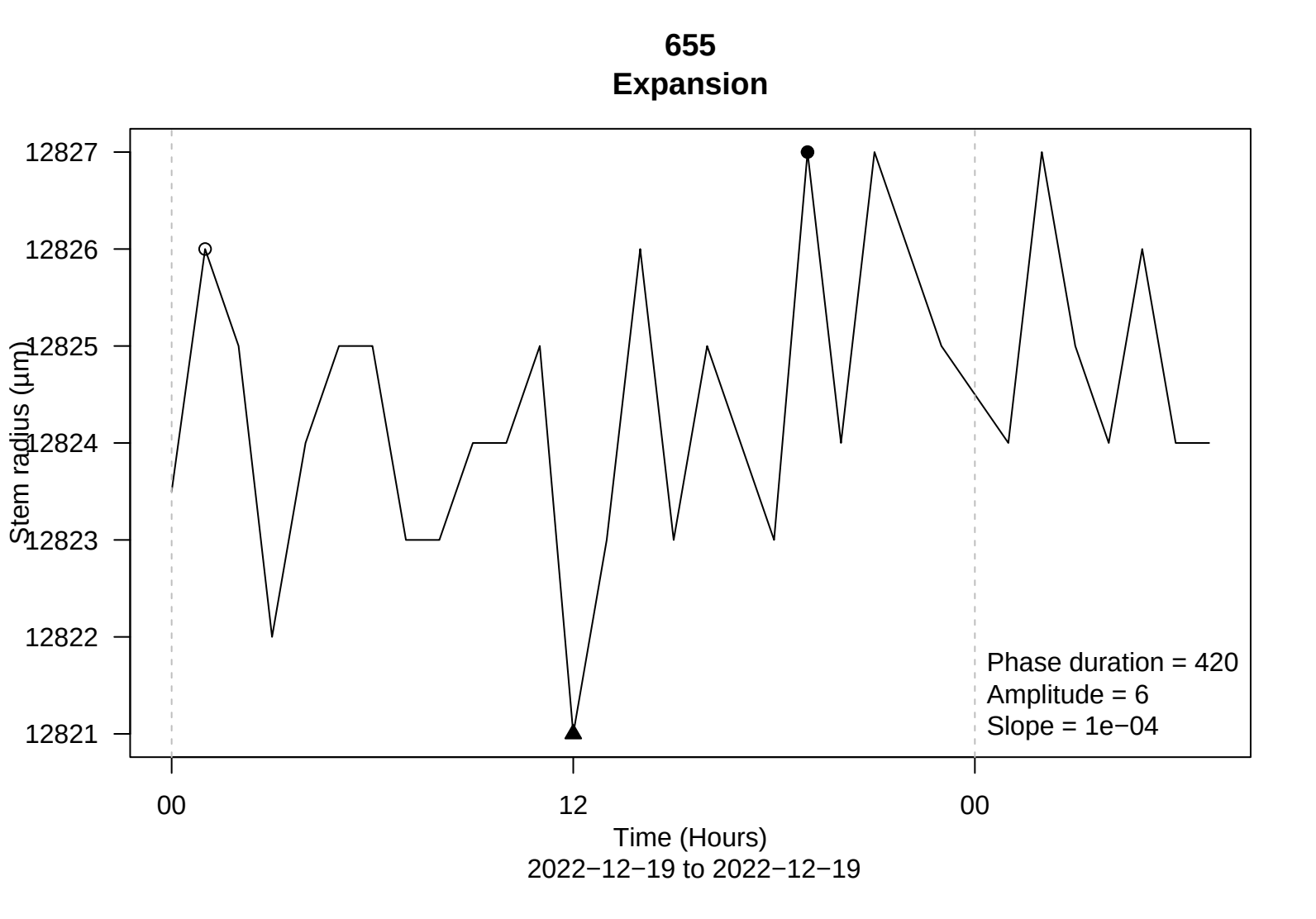

655
Shrinkage
12840
12820
12800
12780
Stem radius (µm)
Phase duration = 960
Amplitude = −18
Slope = −3e−04
12
00
12
00
Time (Hours)
2022−12−15 to 2022−12−16

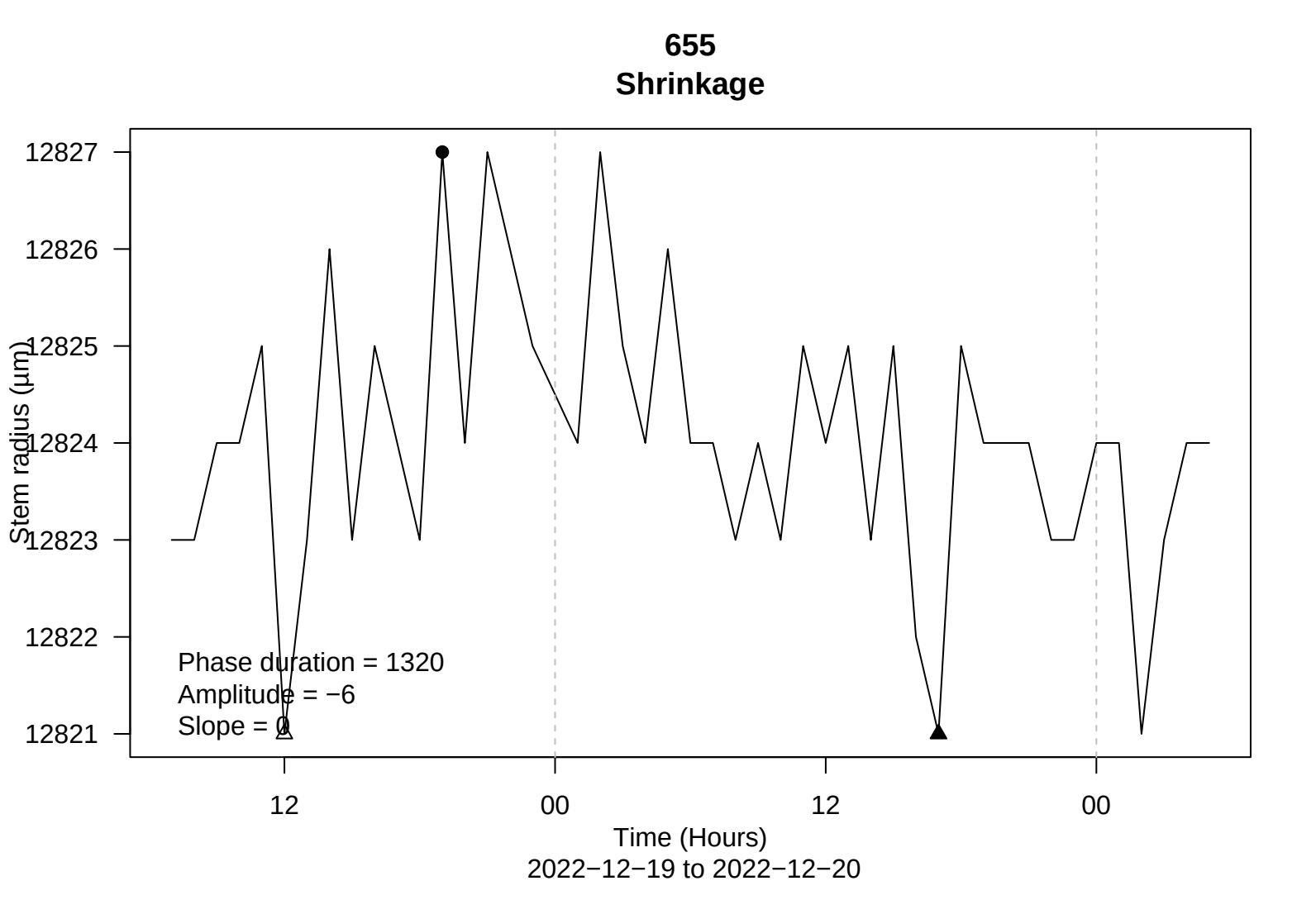

655
Expansion
12845
12840
12835
Stem radius (µm)
Phase duration = 360
Amplitude = 16
Slope = 8e−04
00
12
00
Time (Hours)
2022−12−16 to 2022−12−16

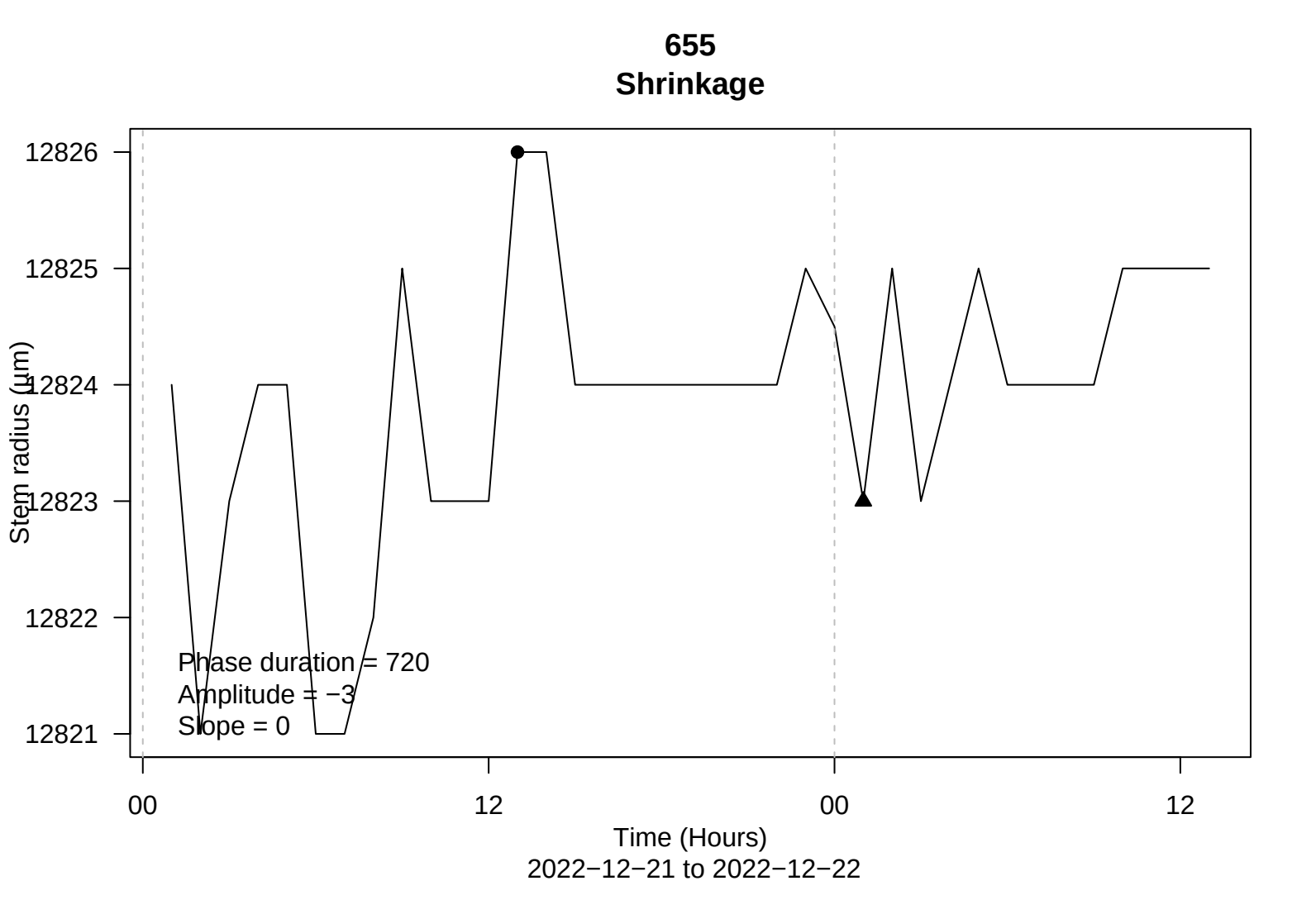

655
Shrinkage
12840
12820
12800
12780
Stem radius (µm)
Phase duration = 1200
Amplitude = −78
Slope = −0.0013
12
00
12
00
Time (Hours)
2022−12−16 to 2022−12−17

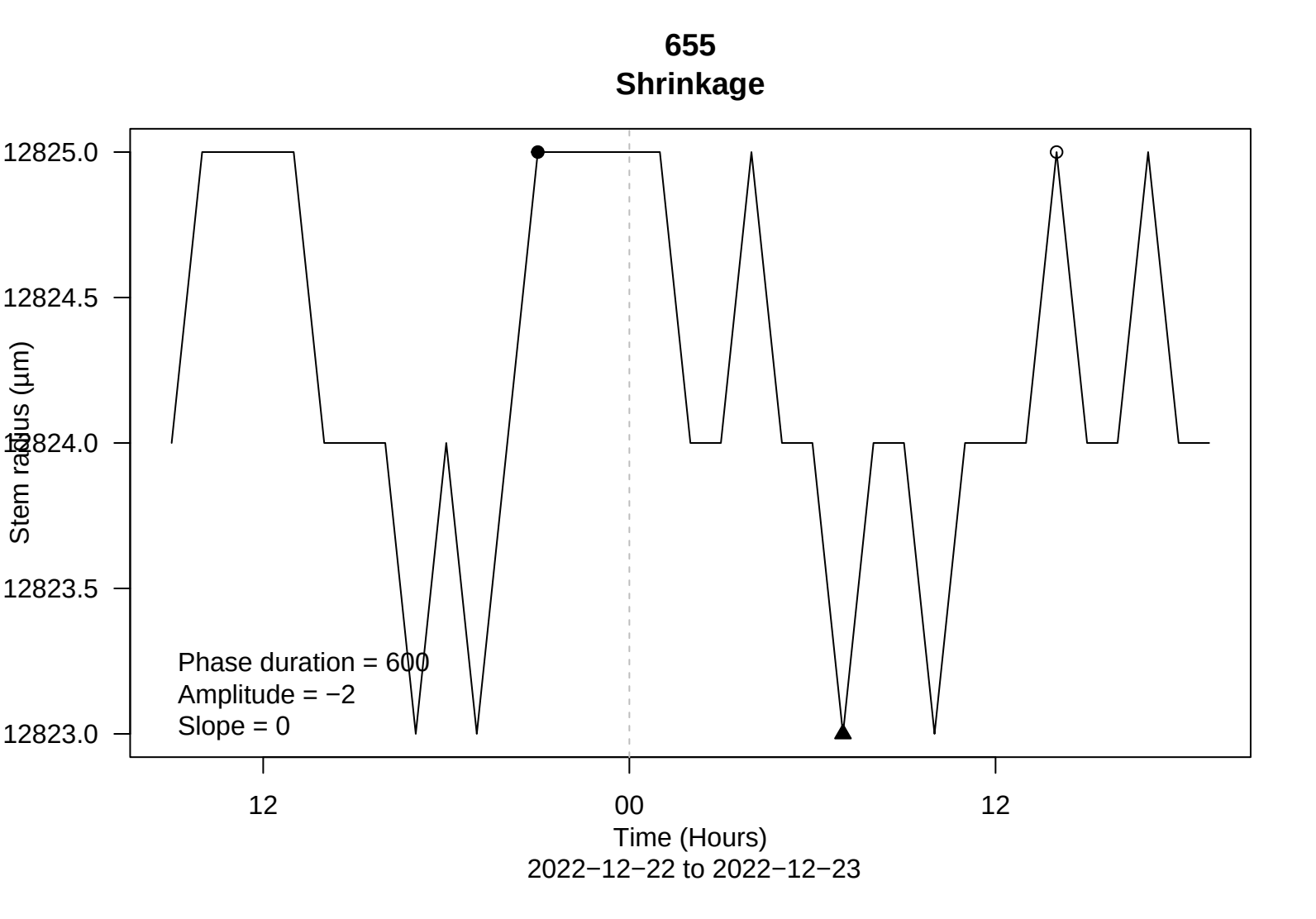

655
Expansion
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 900
Amplitude = 98
Slope = 0.002
00
12
00
12
Time (Hours)
2022−12−18 to 2022−12−19

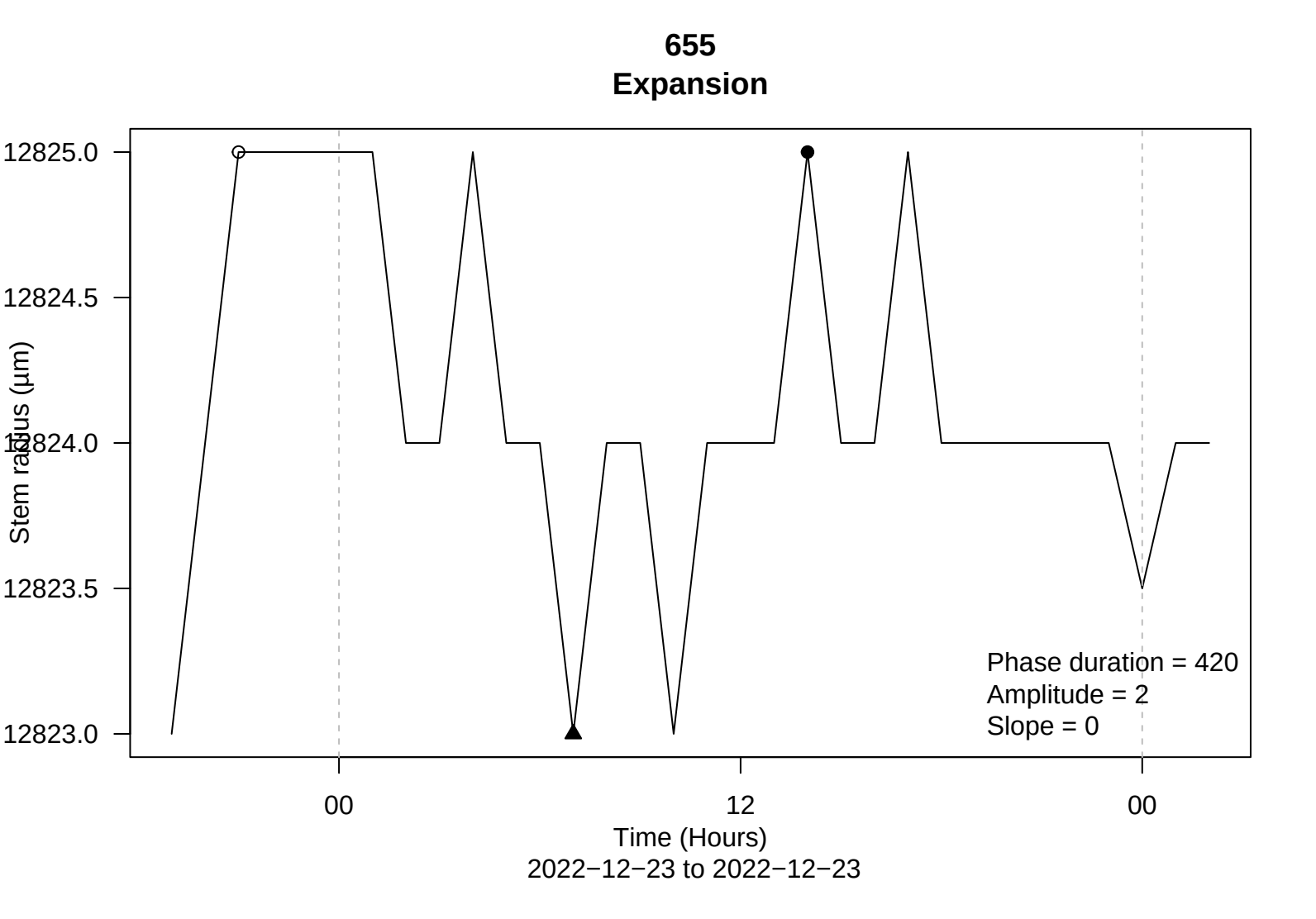

655
Shrinkage
12827
12826
12825
12824
12823
12822
12821
Stem radius (µm)
Phase duration = 660
Amplitude = −5
Slope = 0
12
00
12
00
Time (Hours)
2022−12−19 to 2022−12−19

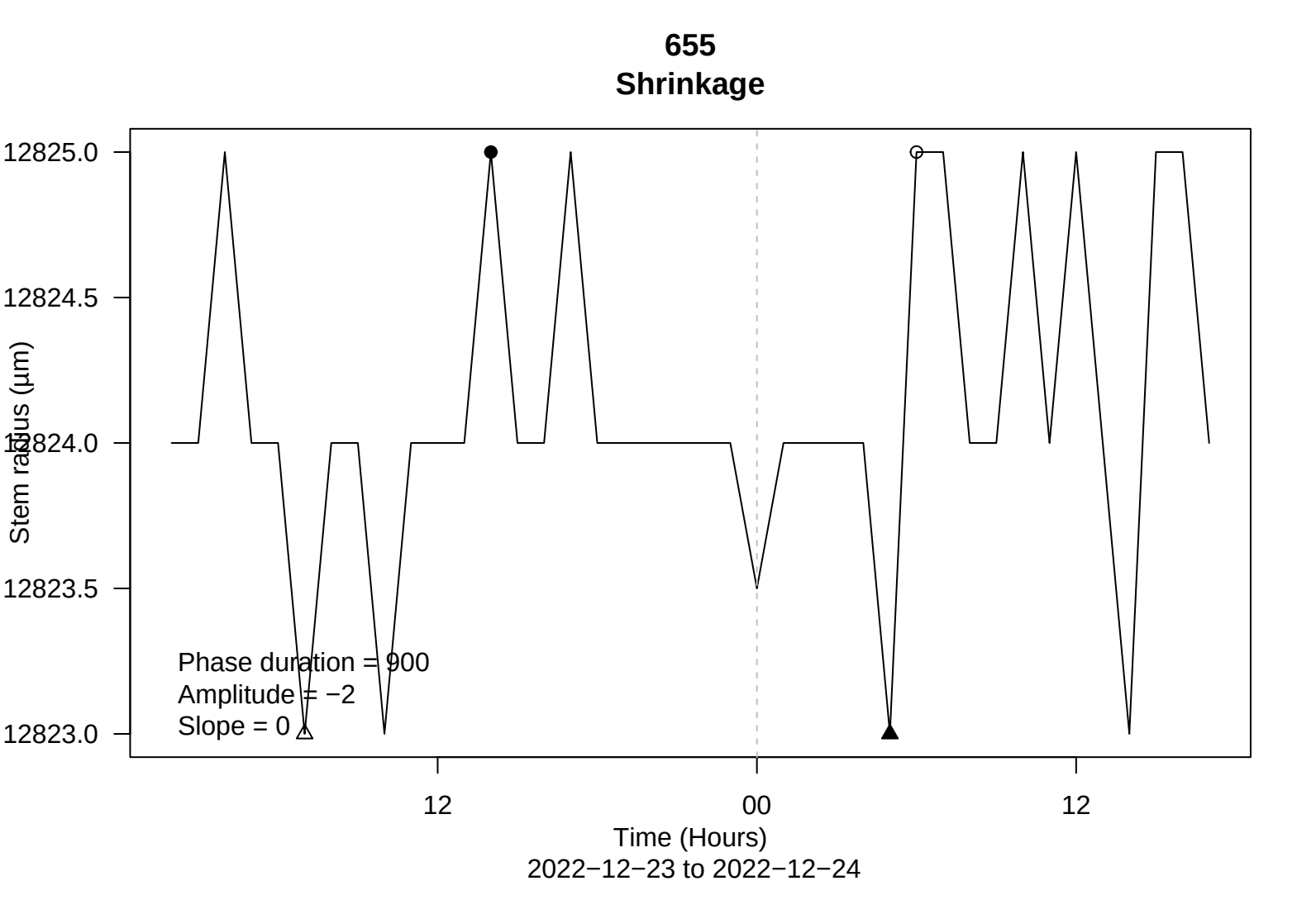

655
Expansion
12827
12826
12825
12824
12823
12822
12821
Stem radius (µm)
Phase duration = 420
Amplitude = 6
Slope = 1e−04
00
12
00
Time (Hours)
2022−12−19 to 2022−12−19

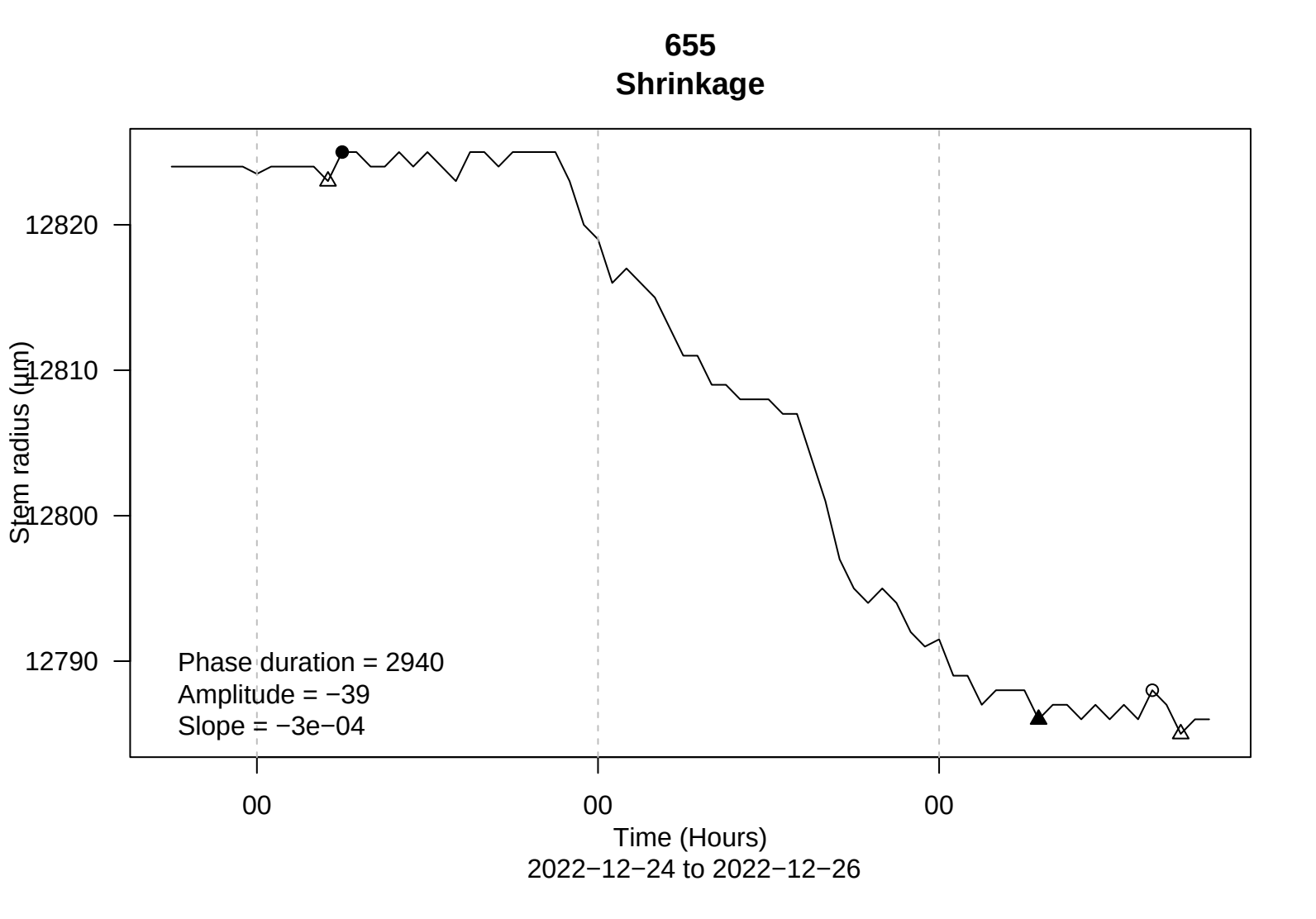

655
Shrinkage
12827
12826
12825
12824
12823
12822
12821
Stem radius (µm)
Phase duration = 1320
Amplitude = −6
Slope = 0
12
00
12
00
Time (Hours)
2022−12−19 to 2022−12−20

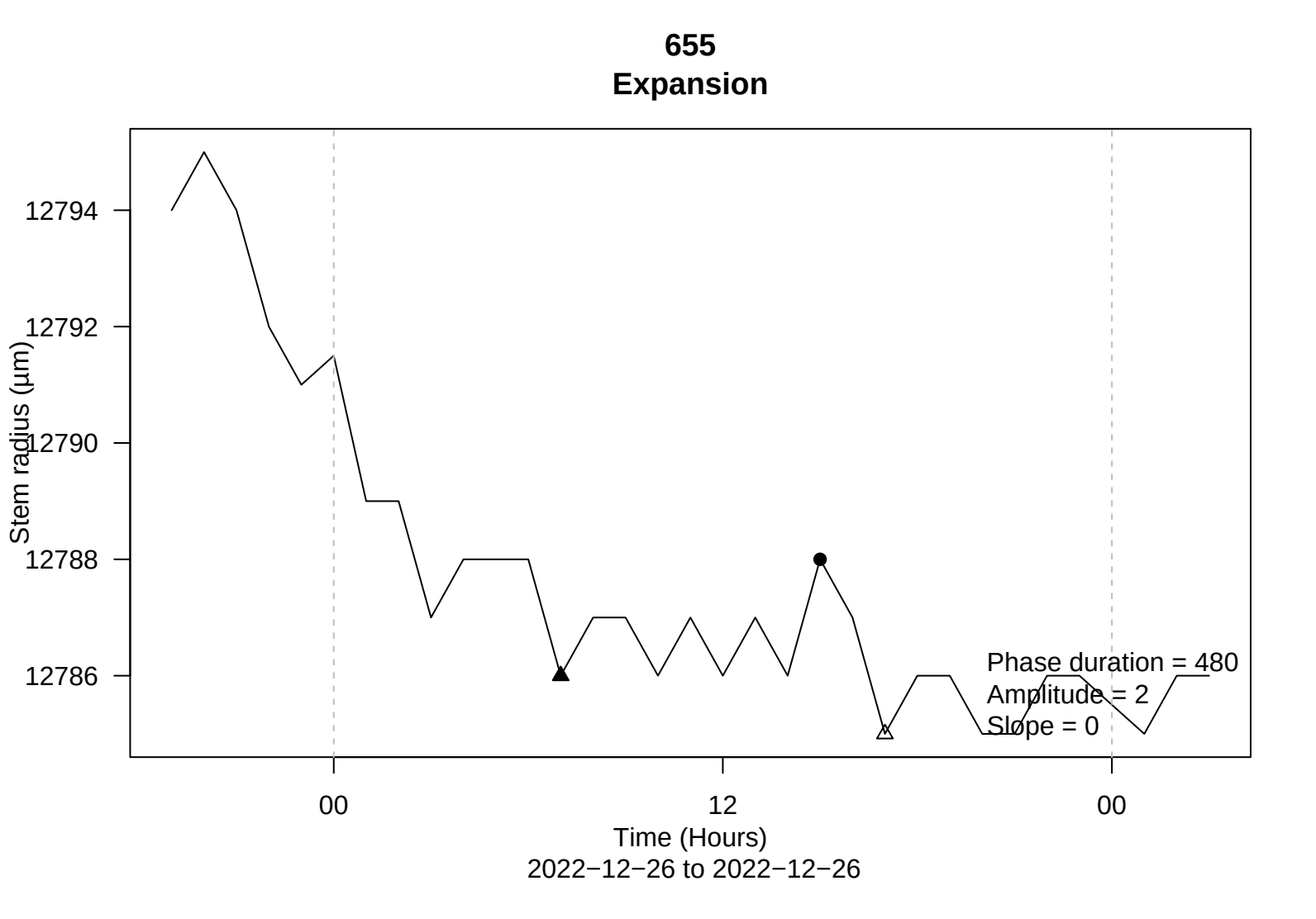

655
Shrinkage
12826
12825
12824
12823
12822
12821
Stem radius (µm)
Phase duration = 720
Amplitude = −3
Slope = 0
00
12
00
12
Time (Hours)
2022−12−21 to 2022−12−22

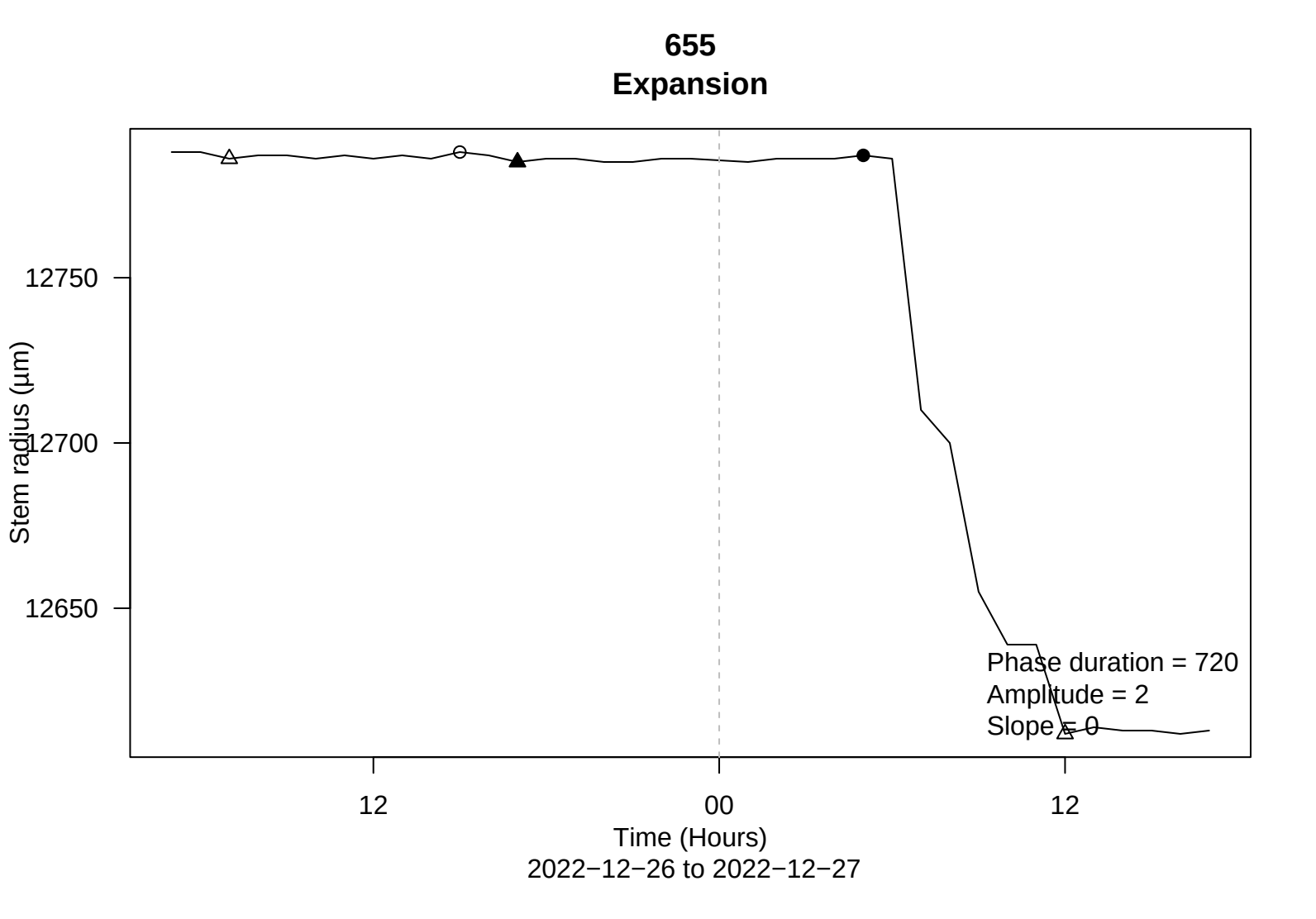

655
Shrinkage
12825.0
12824.5
12824.0
12823.5
12823.0
Stem radius (µm)
Phase duration = 600
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2022−12−22 to 2022−12−23

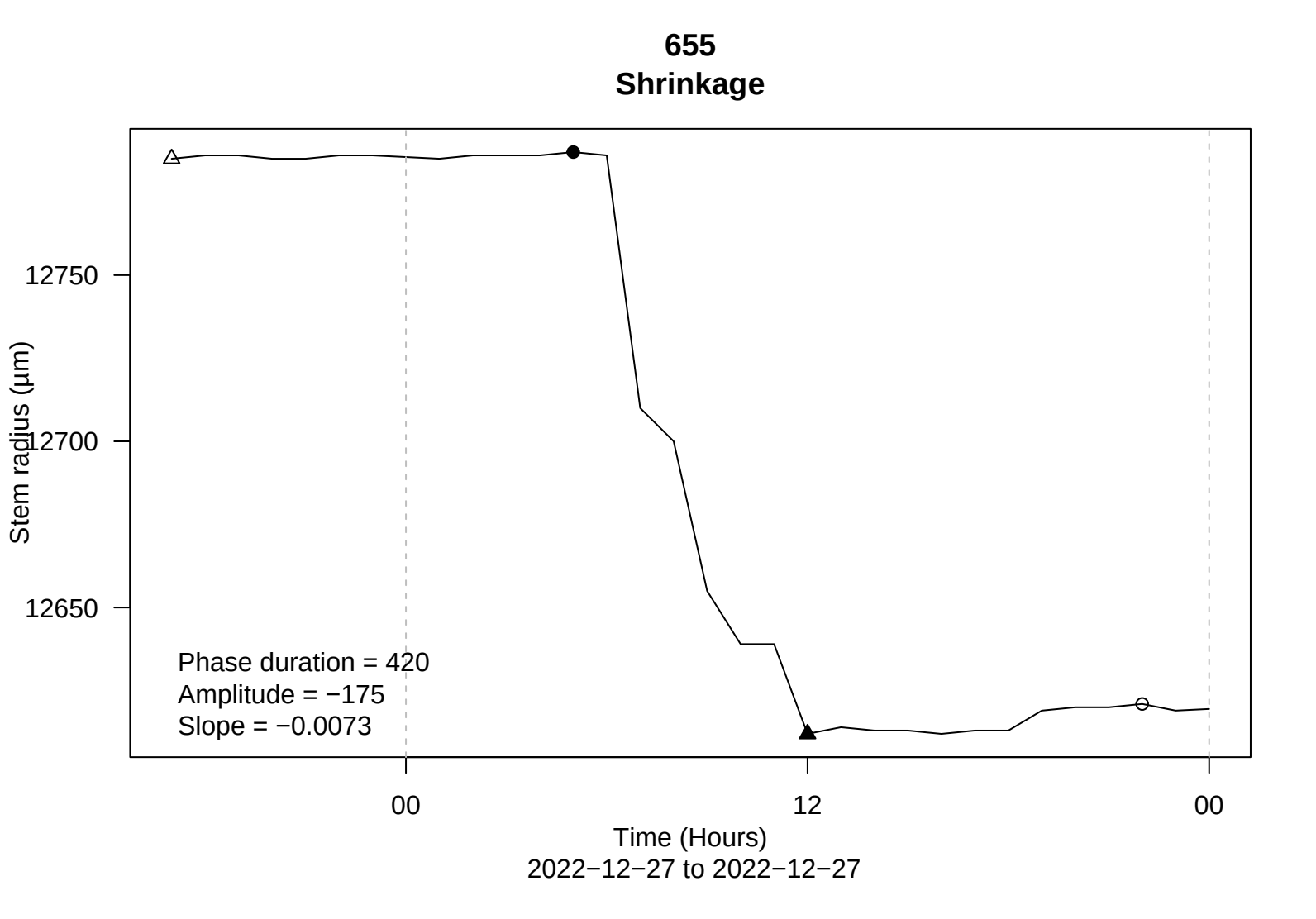

655
Expansion
12825.0
12824.5
12824.0
12823.5
12823.0
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2022−12−23 to 2022−12−23

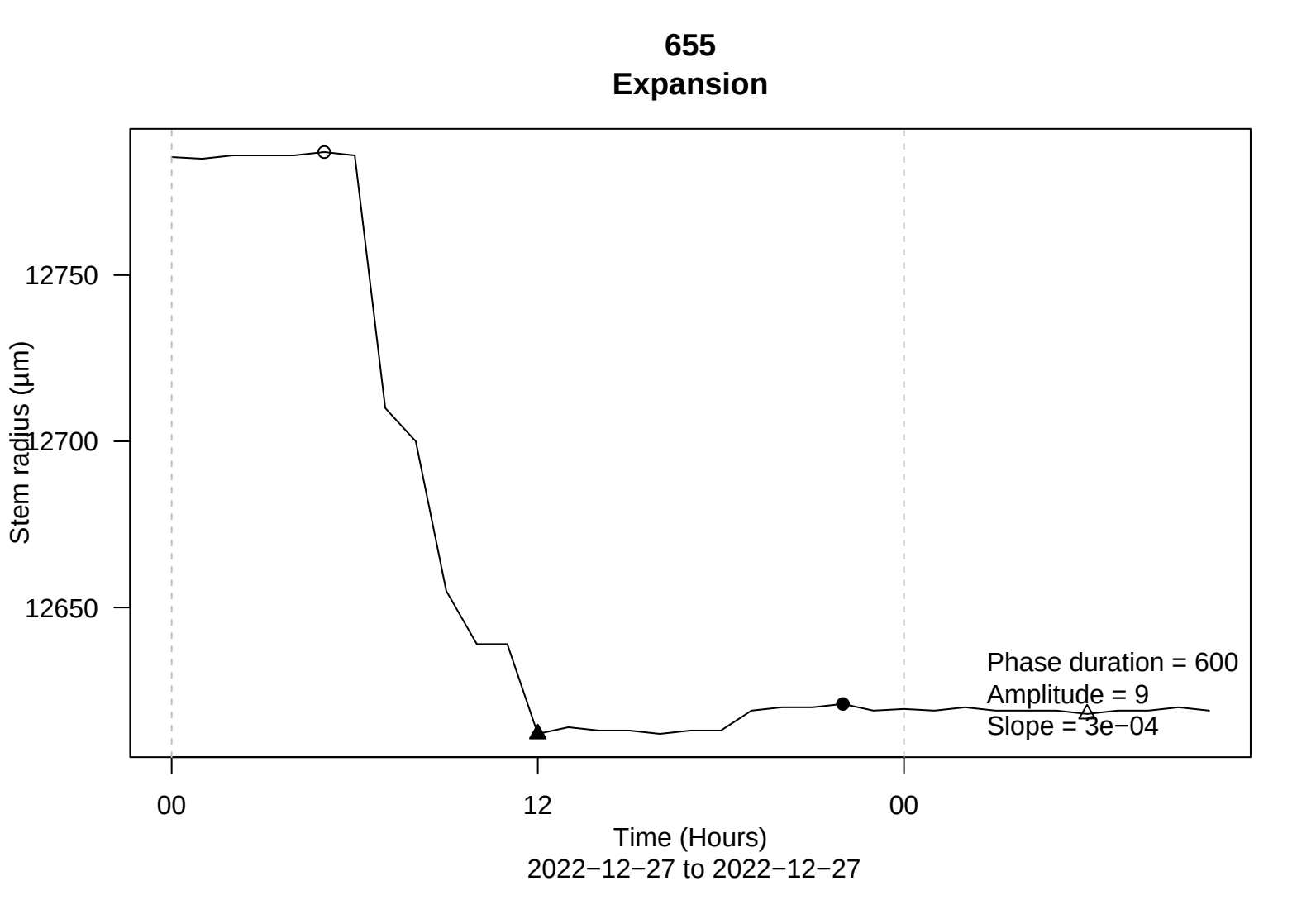

655
Shrinkage
12825.0
12824.5
12824.0
12823.5
12823.0
Stem radius (µm)
Phase duration = 900
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2022−12−23 to 2022−12−24

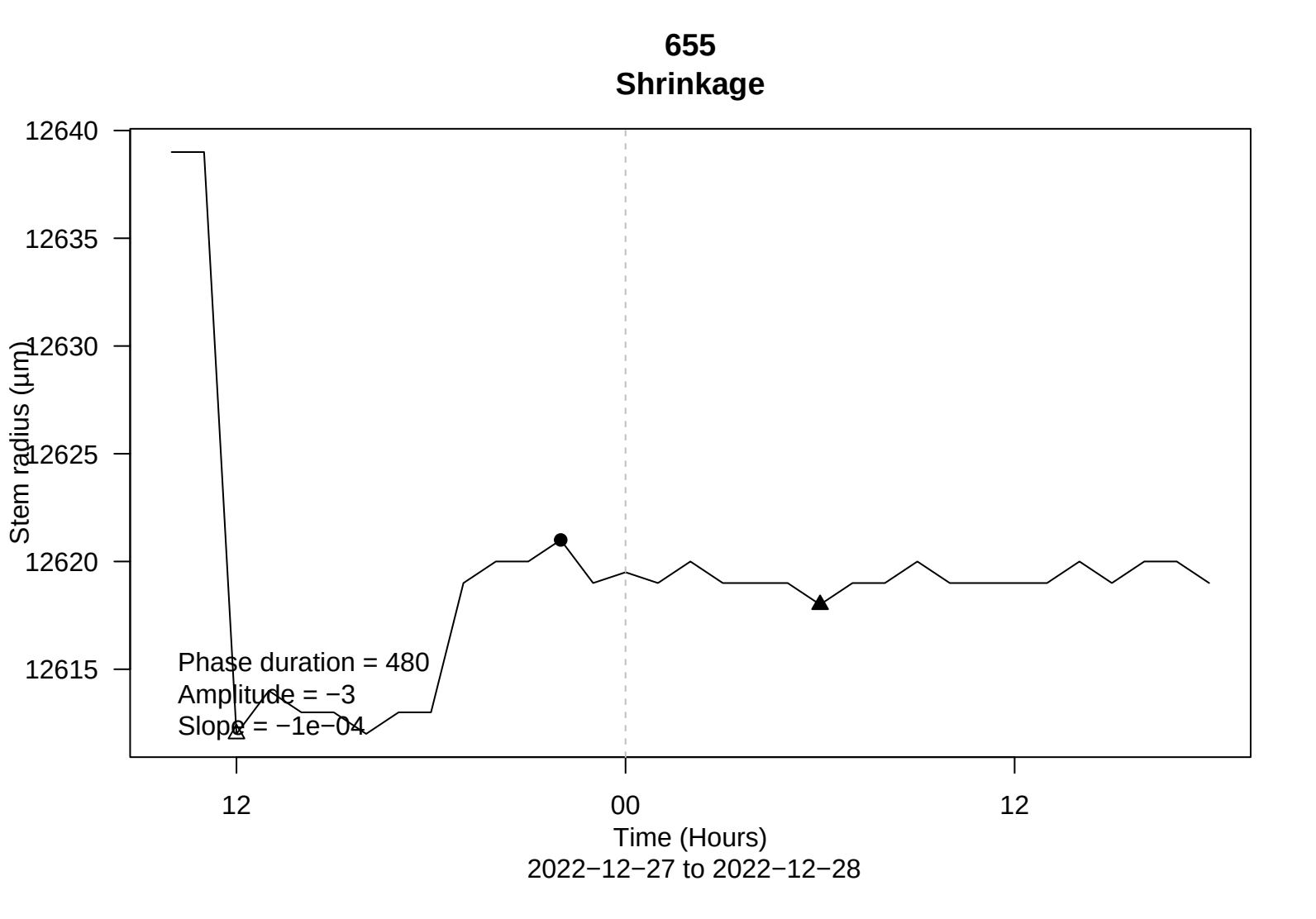

655
Shrinkage
12820
12810
12800
12790
Stem radius (µm)
Phase duration = 2940
Amplitude = −39
Slope = −3e−04
00
00
00
Time (Hours)
2022−12−24 to 2022−12−26

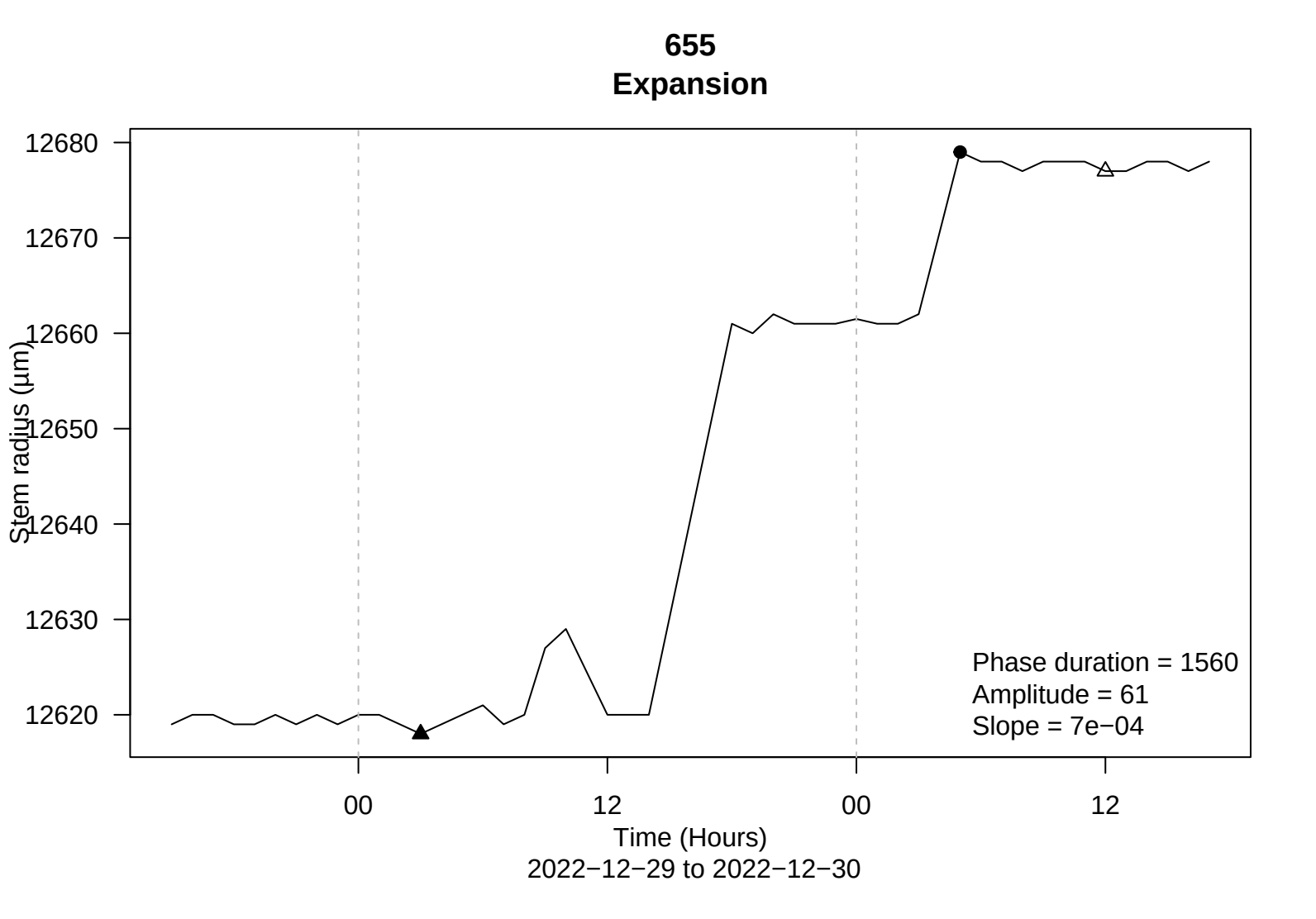

655
Expansion
12794
12792
12790
12788
12786
Stem radius (µm)
Phase duration = 480
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2022−12−26 to 2022−12−26

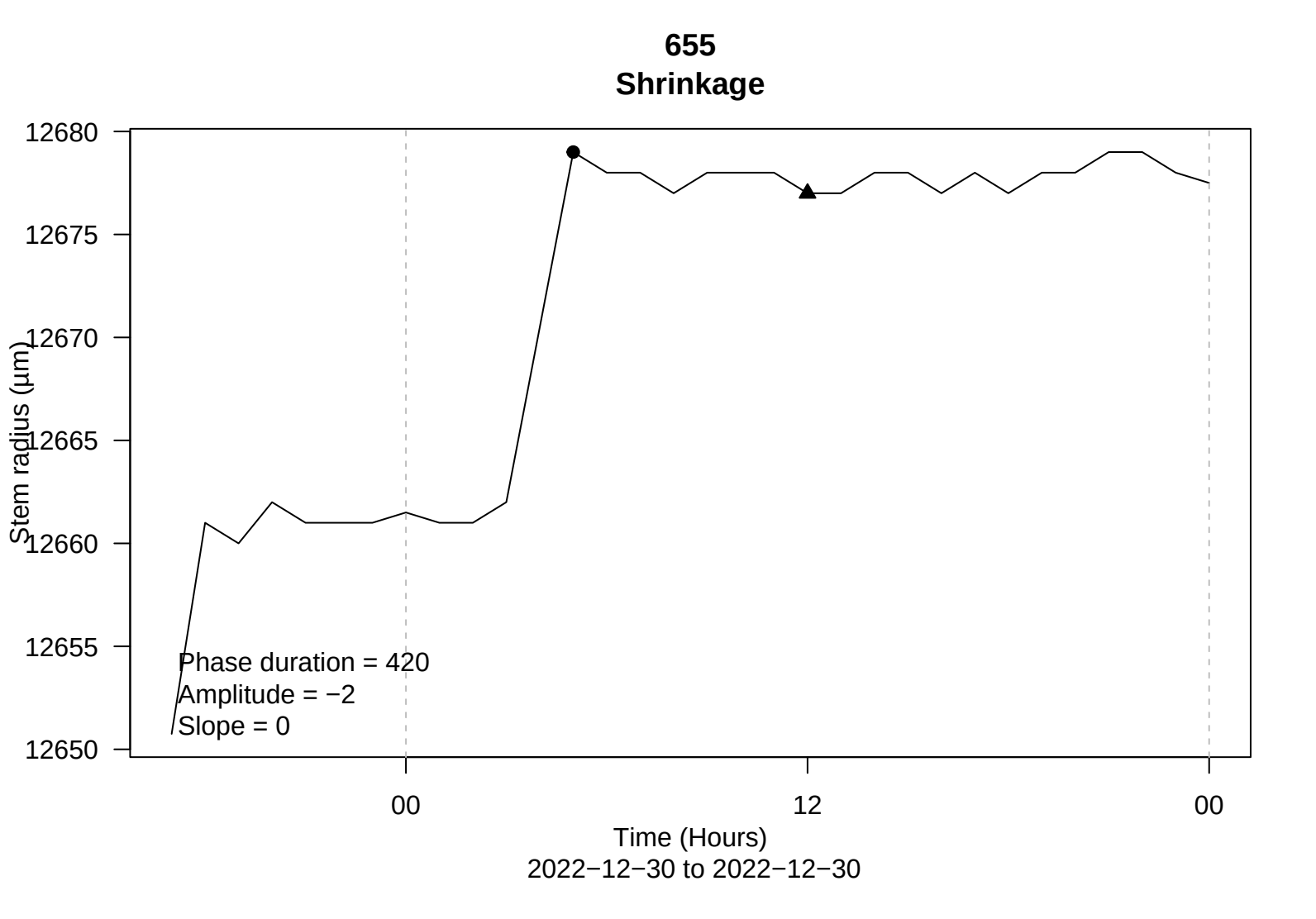

655
Expansion
12750
12700
12650
Stem radius (µm)
Phase duration = 720
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2022−12−26 to 2022−12−27

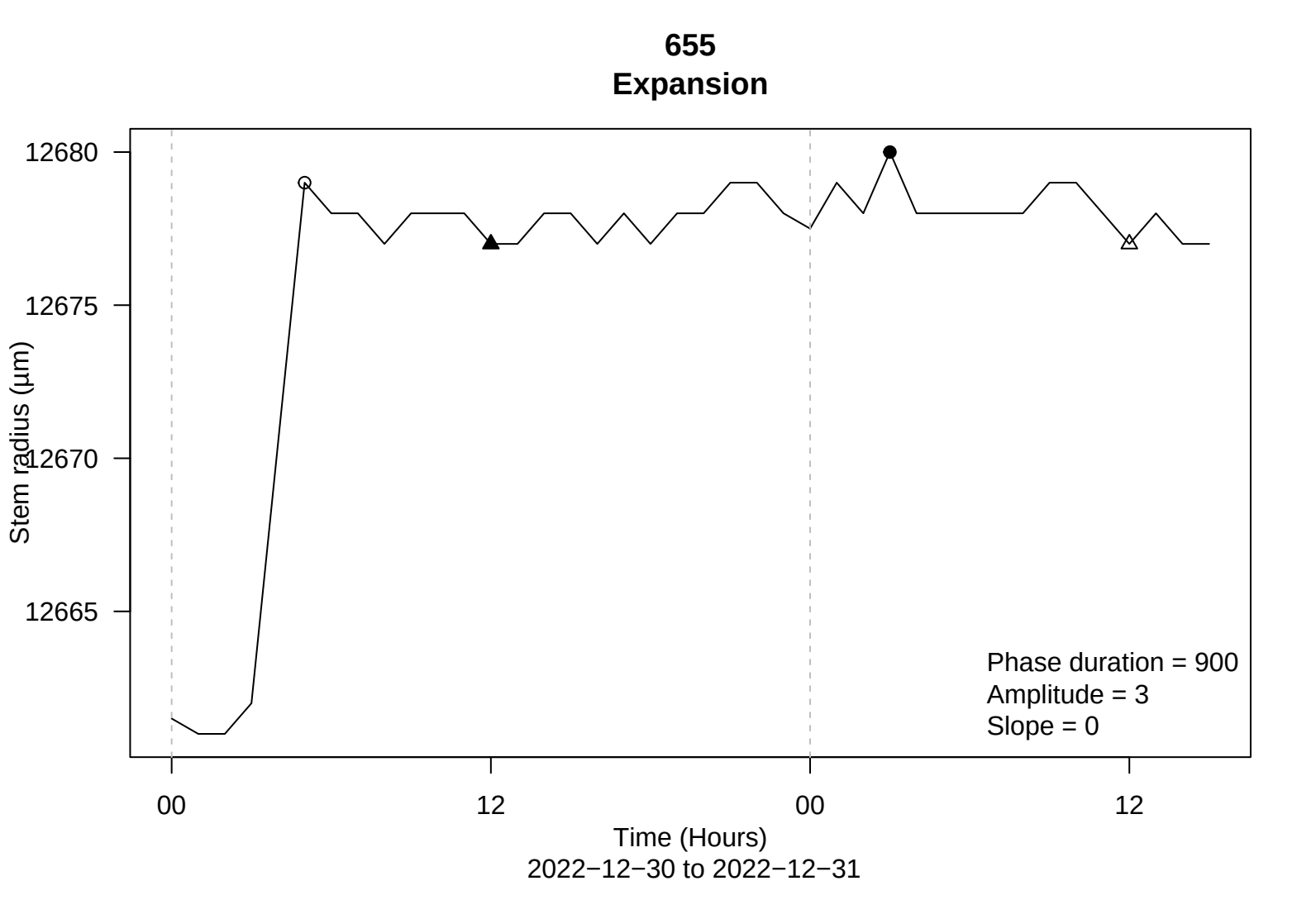

655
Shrinkage
12750
12700
12650
Stem radius (µm)
Phase duration = 420
Amplitude = −175
Slope = −0.0073
00
12
00
Time (Hours)
2022−12−27 to 2022−12−27

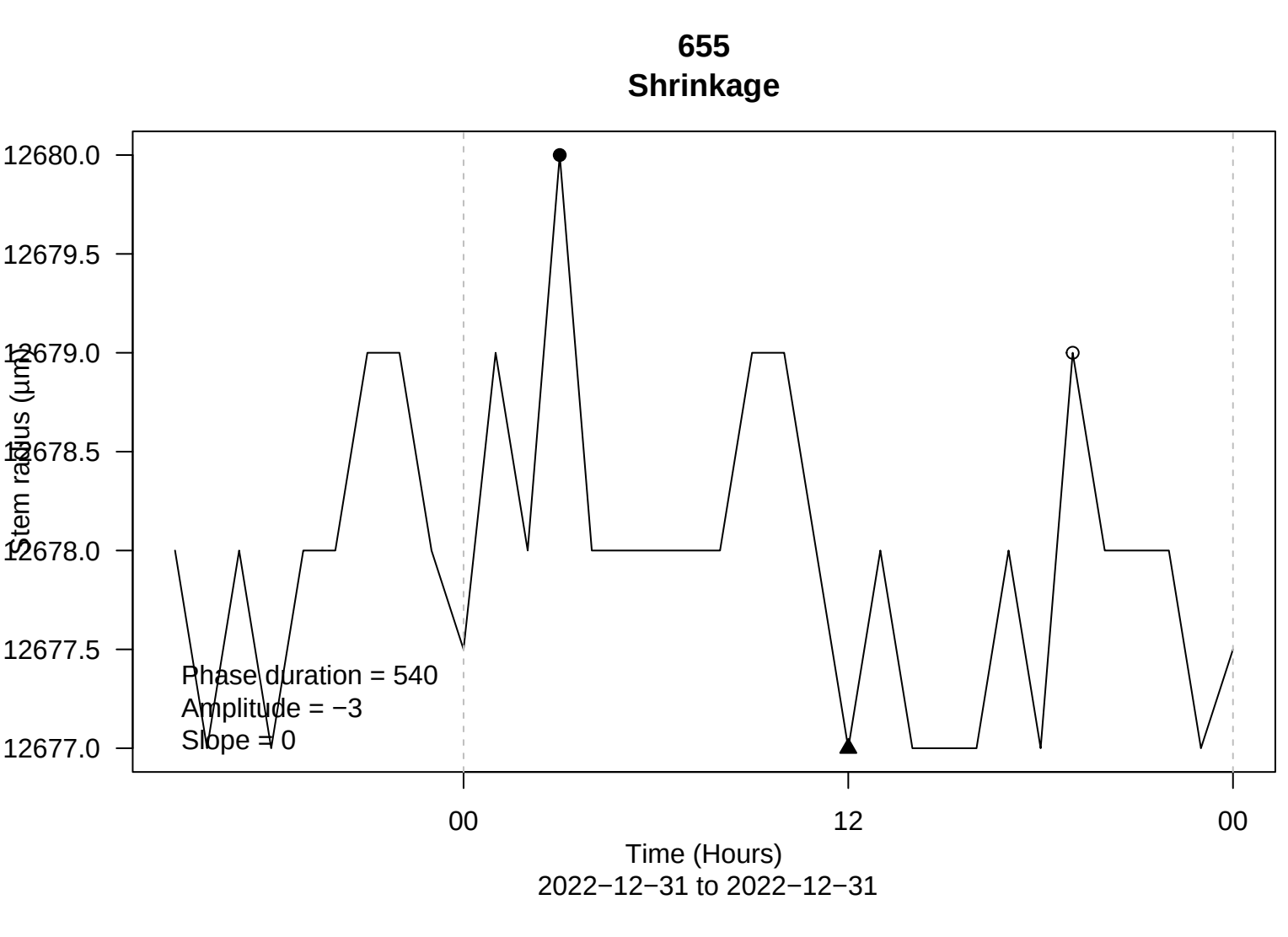

655
Expansion
12750
12700
12650
Stem radius (µm)
Phase duration = 600
Amplitude = 9
Slope = 3e−04
00
12
00
Time (Hours)
2022−12−27 to 2022−12−27

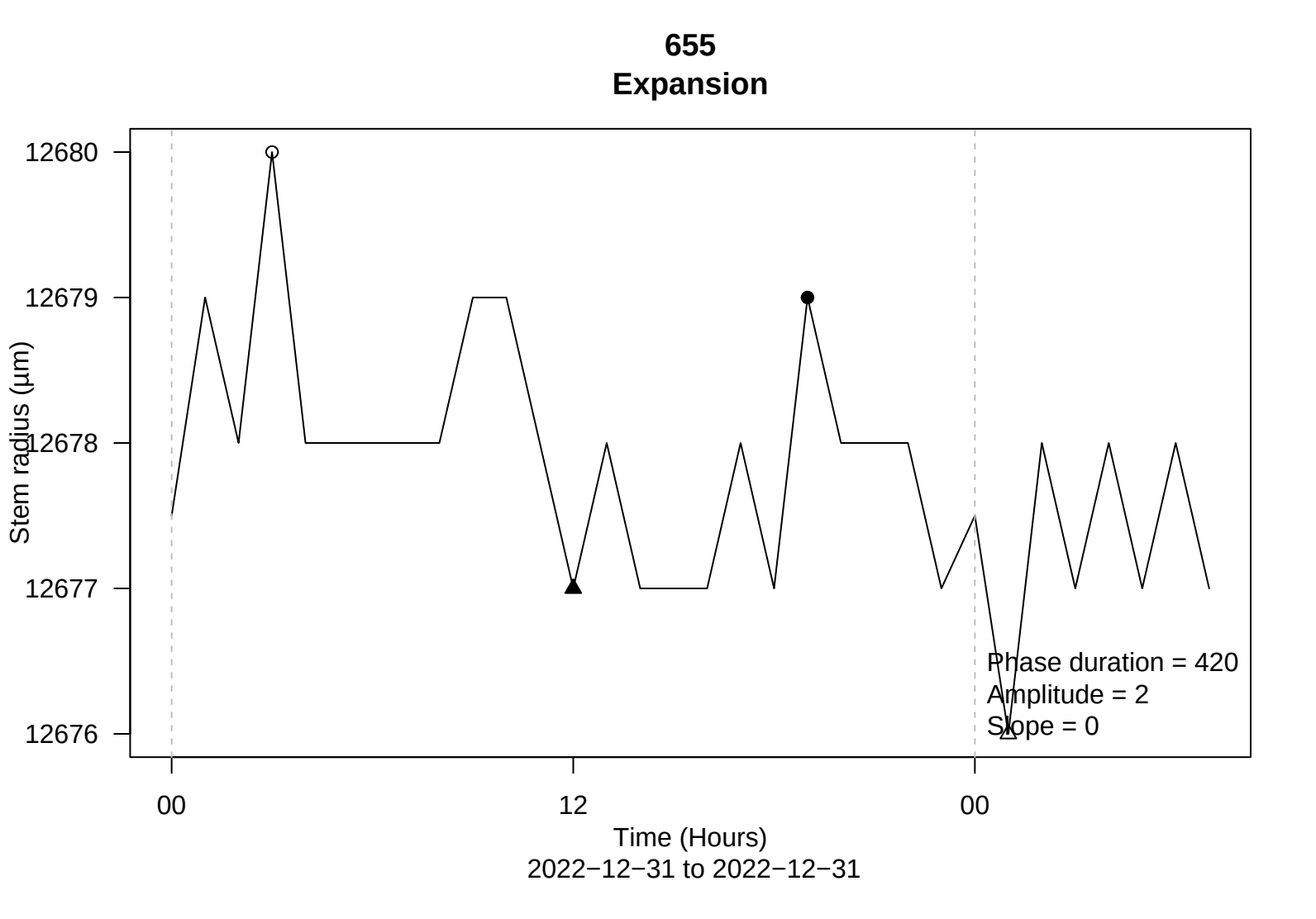

655
Shrinkage
12640
12635
12630
12625
12620
12615
Stem radius (µm)
Phase duration = 480
Amplitude = −3
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−27 to 2022−12−28

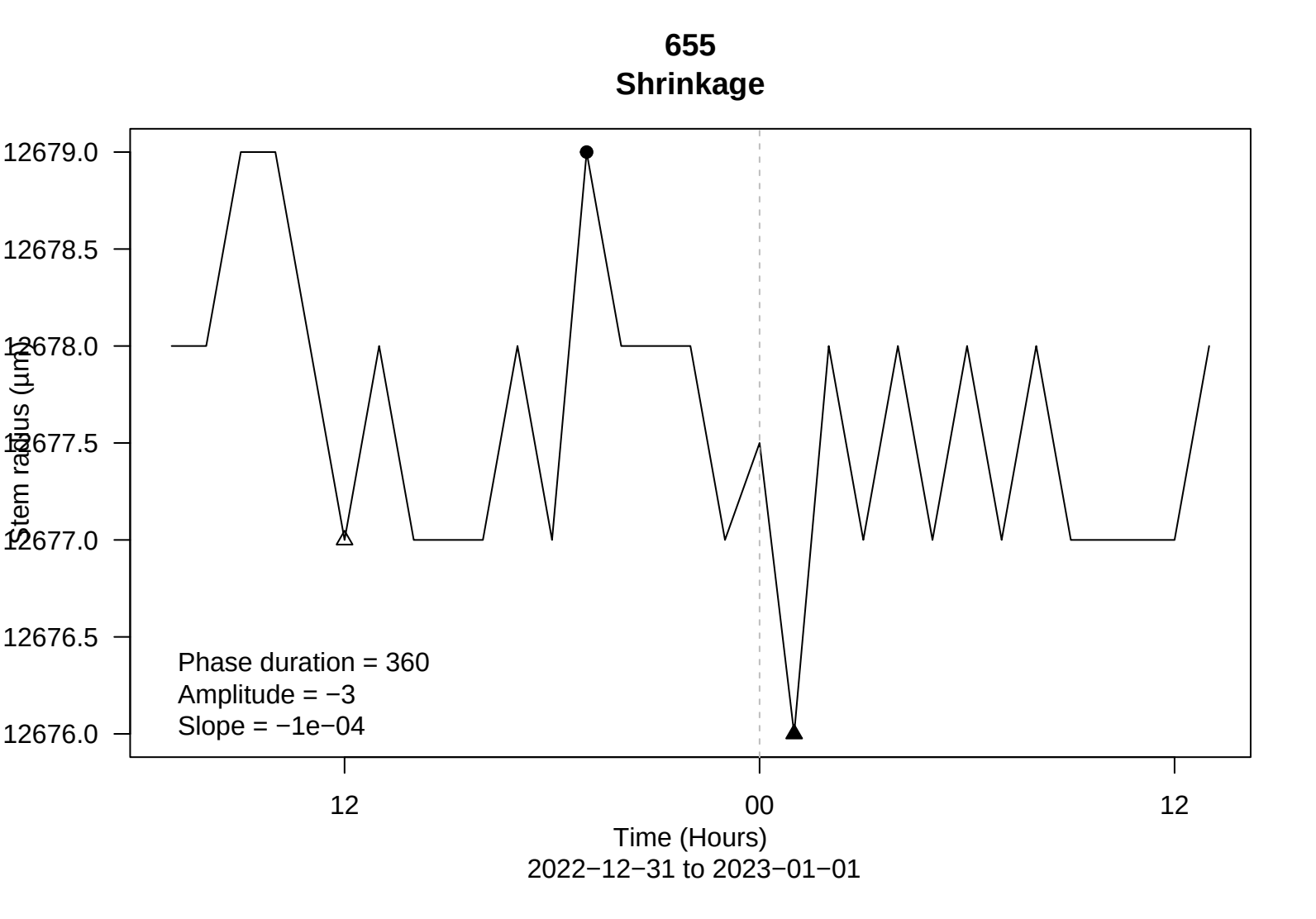

655
Expansion
12680
12670
12660
12650
12640
12630
12620
Stem radius (µm)
Phase duration = 1560
Amplitude = 61
Slope = 7e−04
00
12
00
12
Time (Hours)
2022−12−29 to 2022−12−30

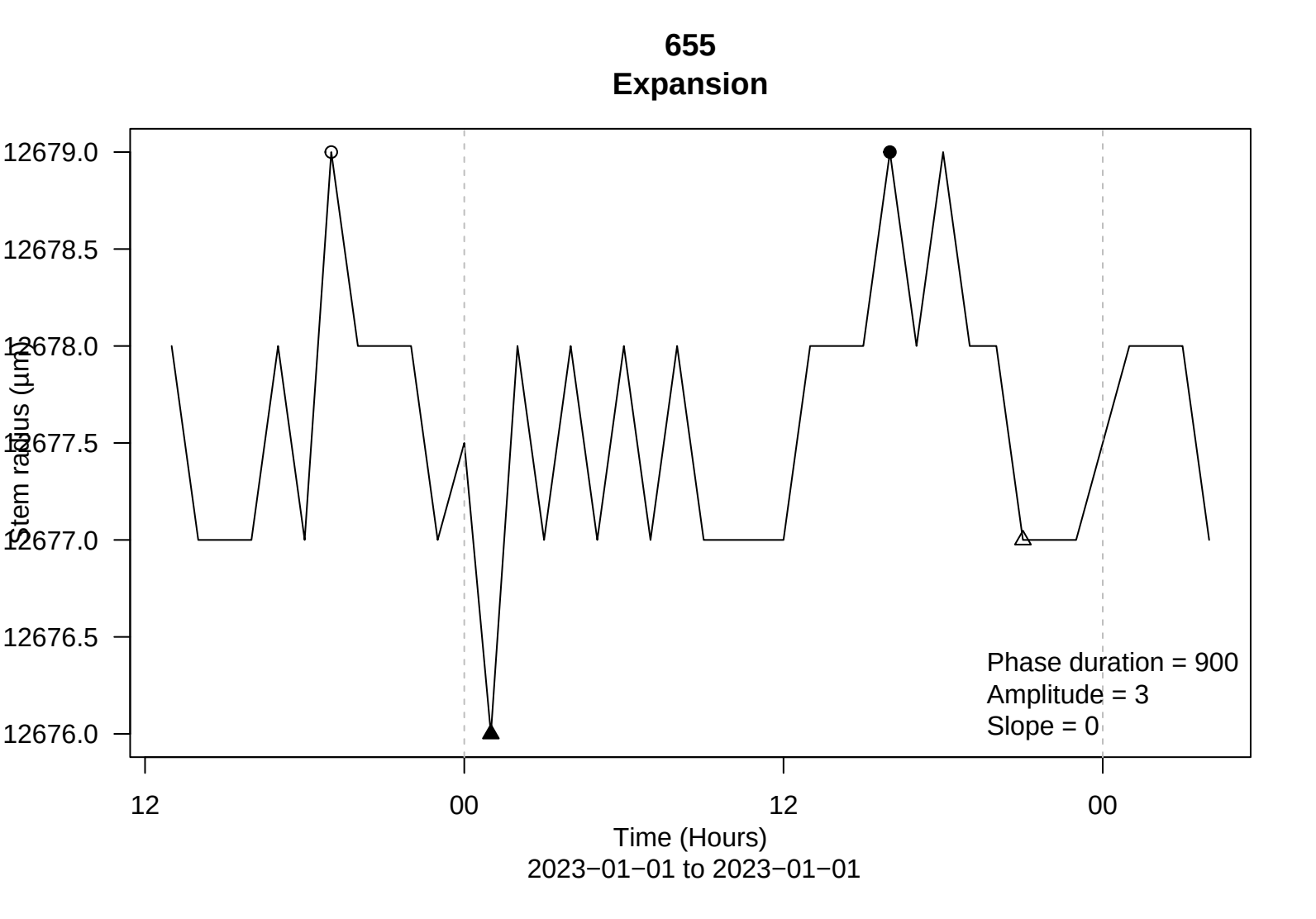

655
Shrinkage
12680
12675
12670
12665
12660
12655
12650
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2022−12−30 to 2022−12−30

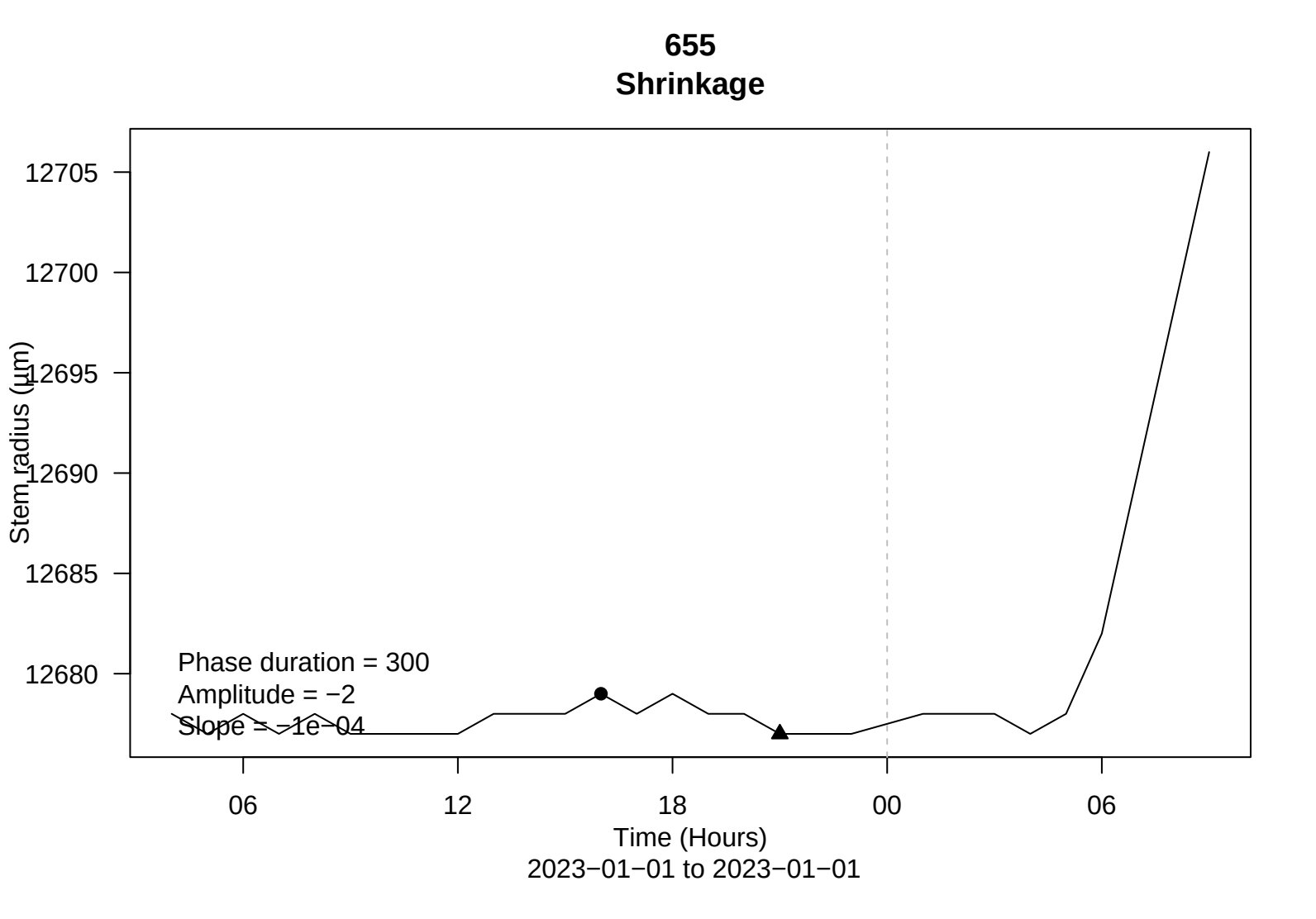

655
Expansion
12680
12675
12670
12665
Stem radius (µm)
Phase duration = 900
Amplitude = 3
Slope = 0
00
12
00
12
Time (Hours)
2022−12−30 to 2022−12−31

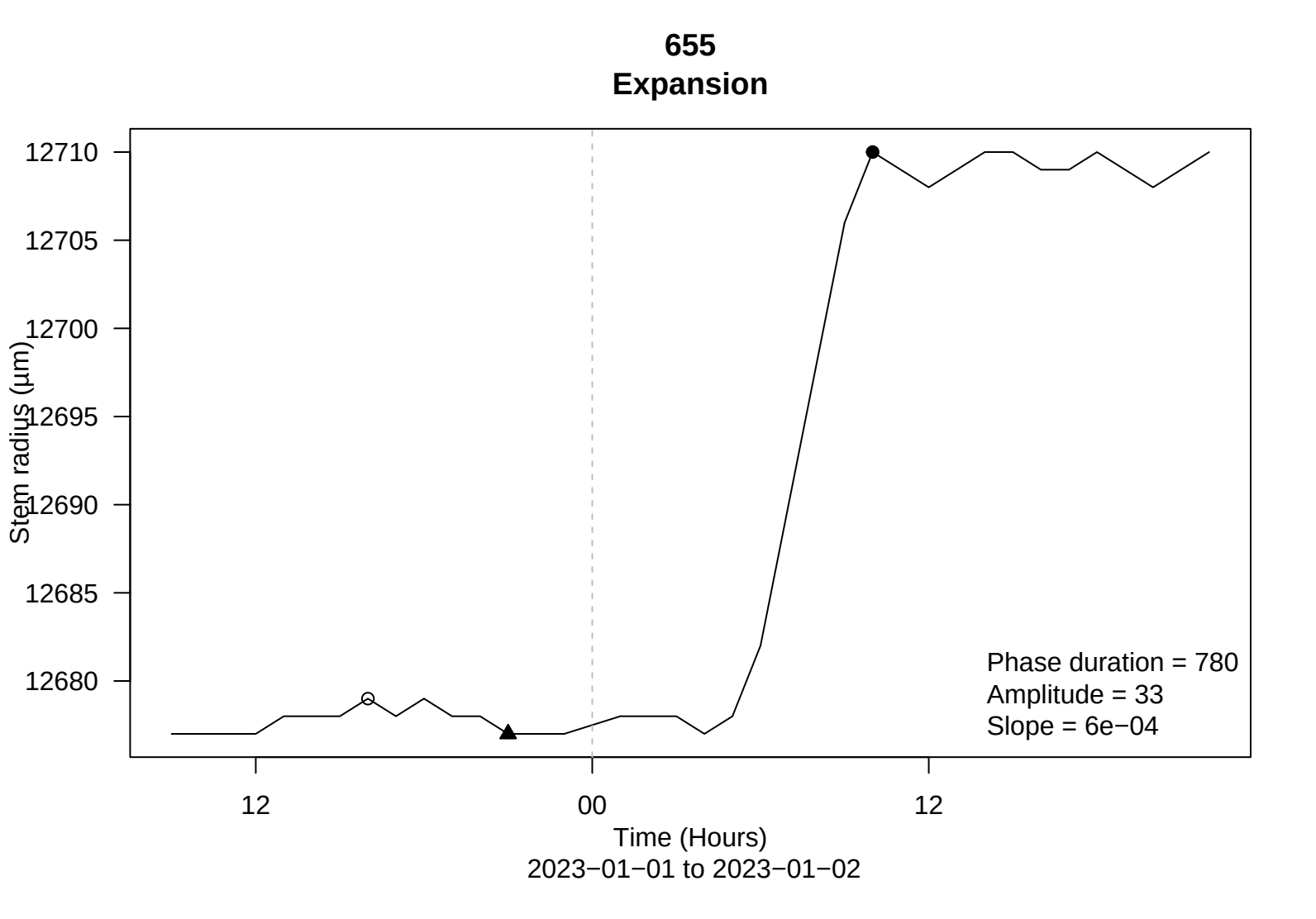

655
Shrinkage
12680.0
12679.5
12679.0
12678.5
12678.0
12677.5
12677.0
Stem radius (µm)
Phase duration = 540
Amplitude = −3
Slope = 0
00
12
00
Time (Hours)
2022−12−31 to 2022−12−31

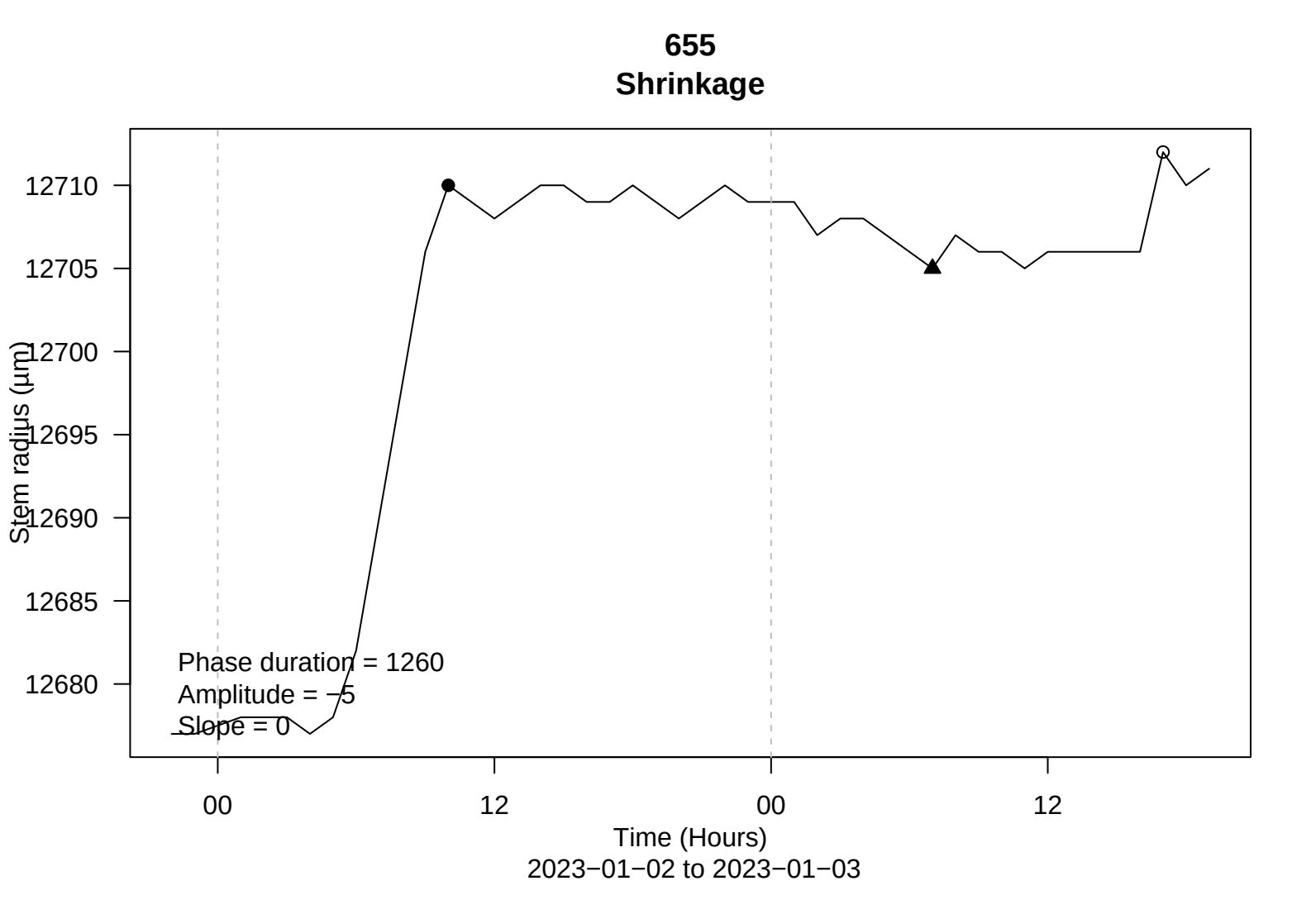

655
Expansion
12680
12679
12678
12677
12676
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2022−12−31 to 2022−12−31

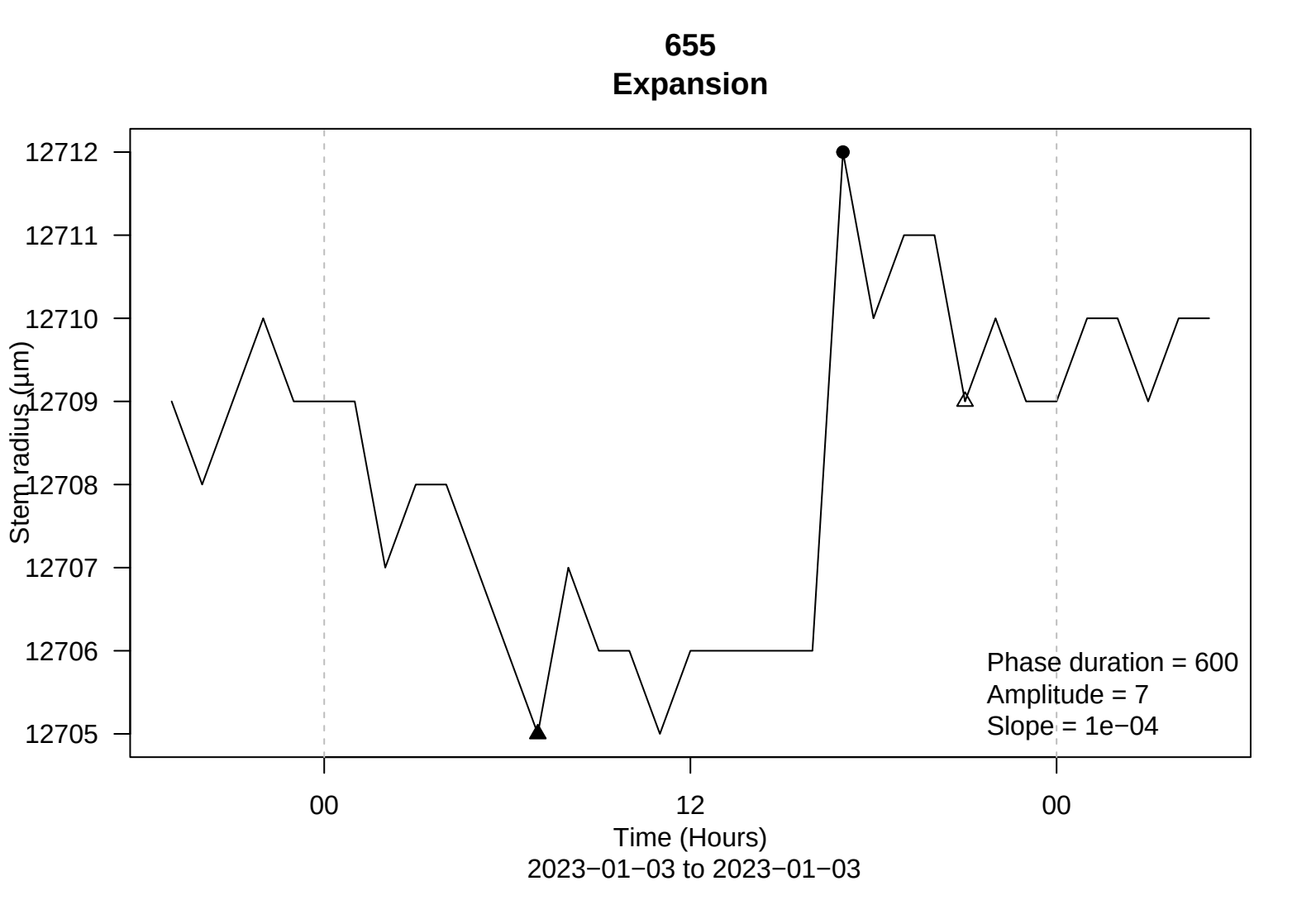

655
Shrinkage
12679.0
12678.5
12678.0
12677.5
12677.0
12676.5
12676.0
Stem radius (µm)
Phase duration = 360
Amplitude = −3
Slope = −1e−04
12
00
12
Time (Hours)
2022−12−31 to 2023−01−01

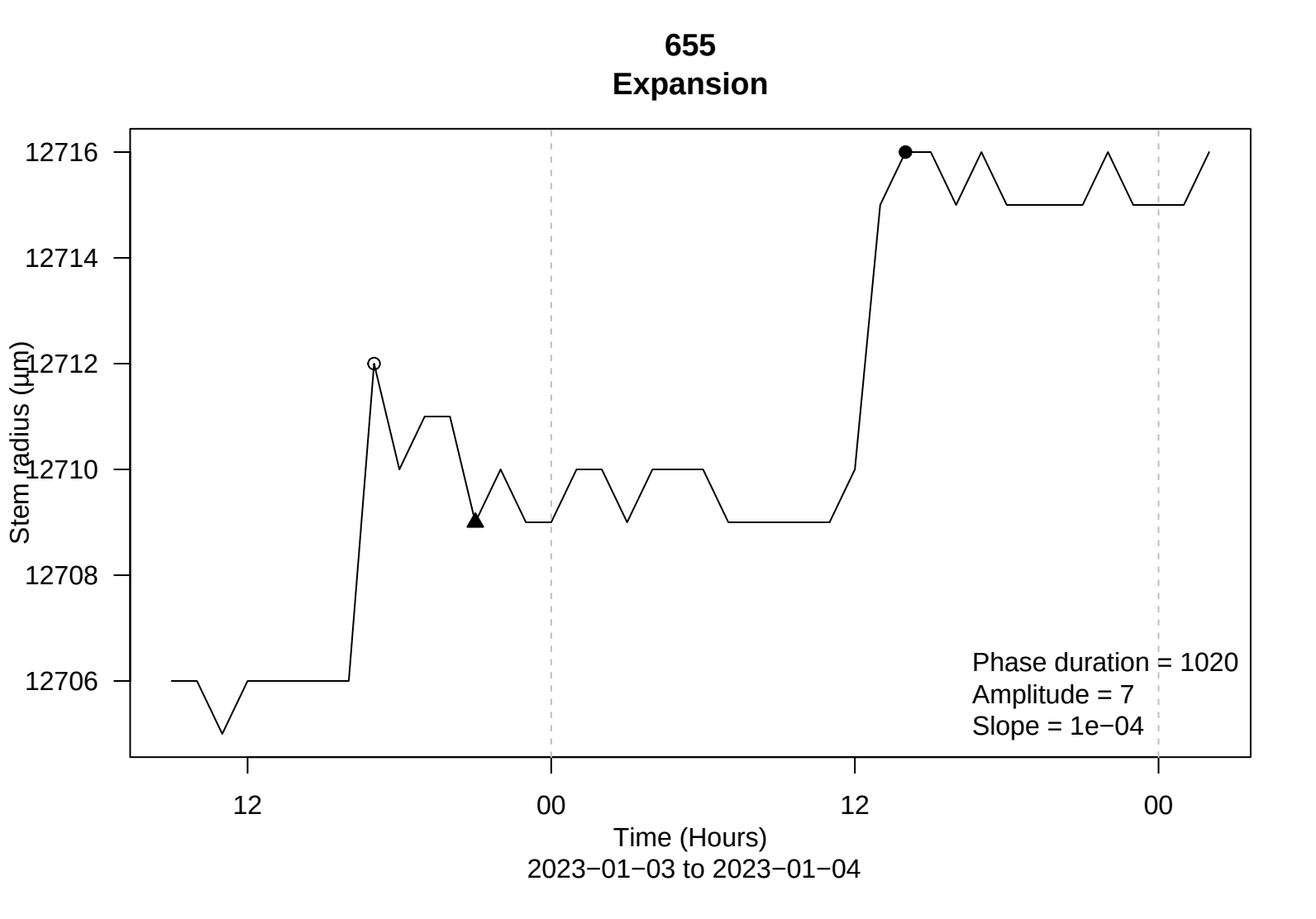

655
Expansion
12679.0
12678.5
12678.0
12677.5
12677.0
12676.5
12676.0
Stem radius (µm)
Phase duration = 900
Amplitude = 3
Slope = 0
12
00
12
00
Time (Hours)
2023−01−01 to 2023−01−01

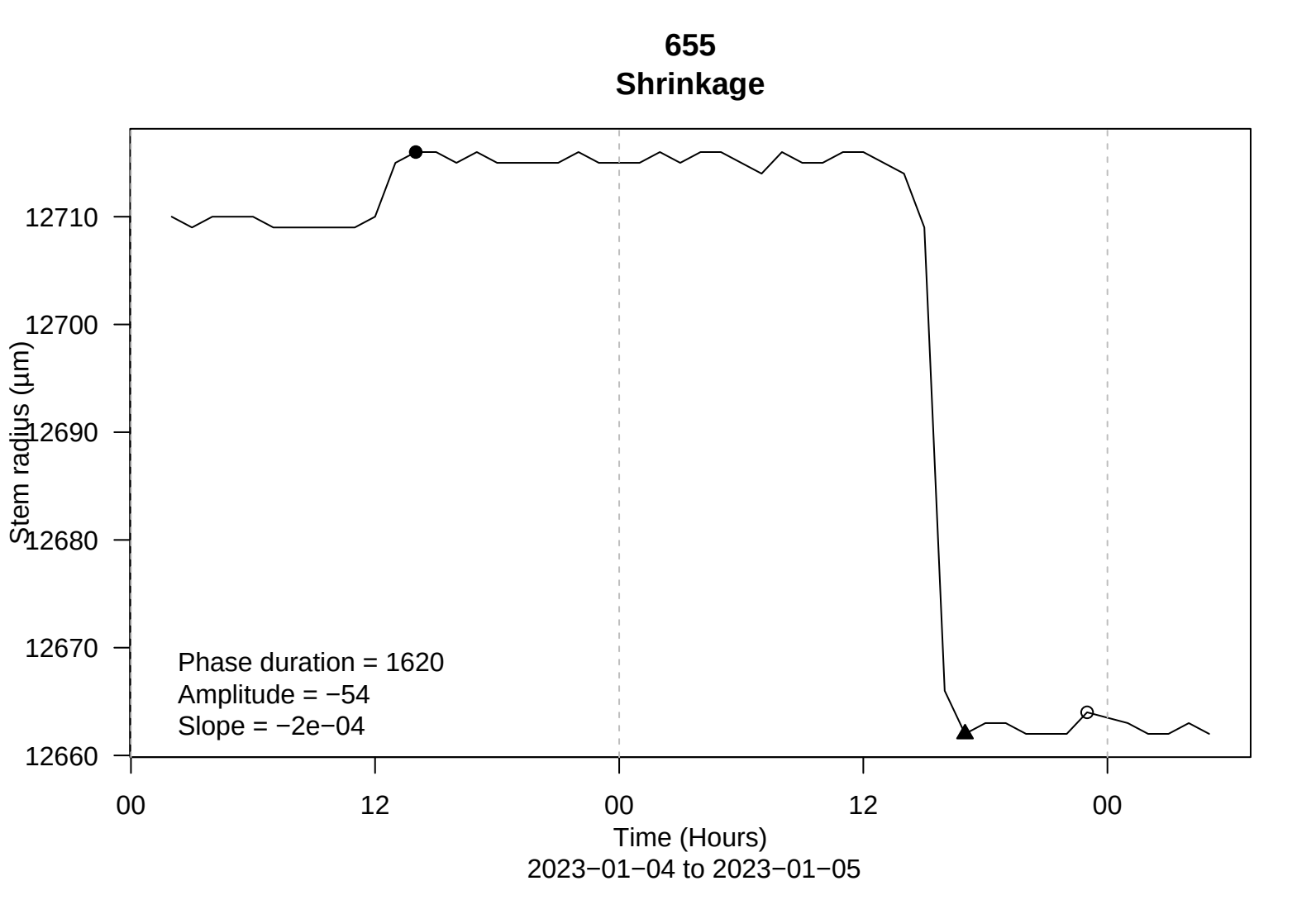

655
Shrinkage
12705
12700
12695
12690
12685
12680
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
06
12
18
00
06
Time (Hours)
2023−01−01 to 2023−01−01

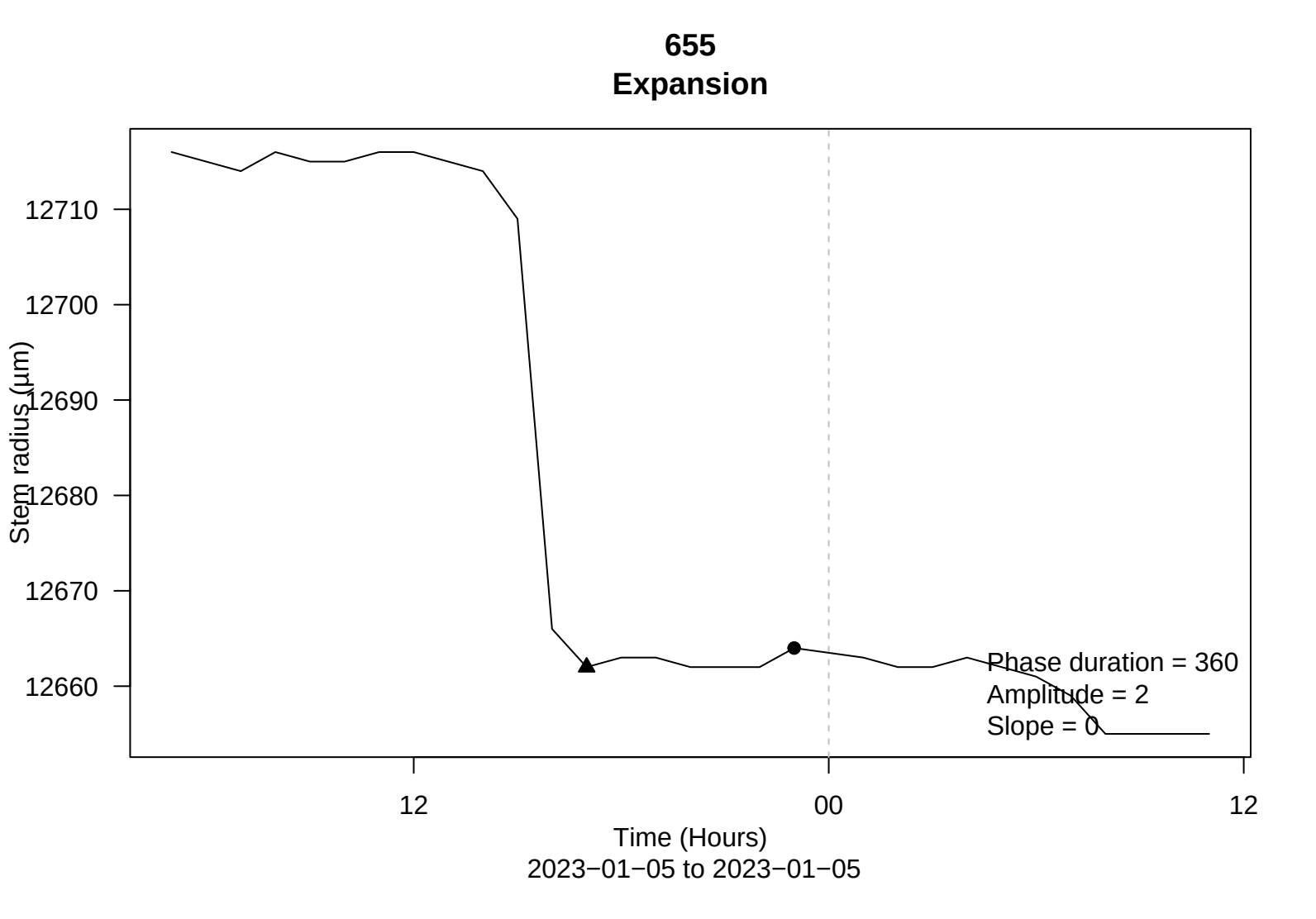

655
Expansion
12710
12705
12700
12695
12690
12685
12680
Stem radius (µm)
Phase duration = 780
Amplitude = 33
Slope = 6e−04
12
00
12
Time (Hours)
2023−01−01 to 2023−01−02

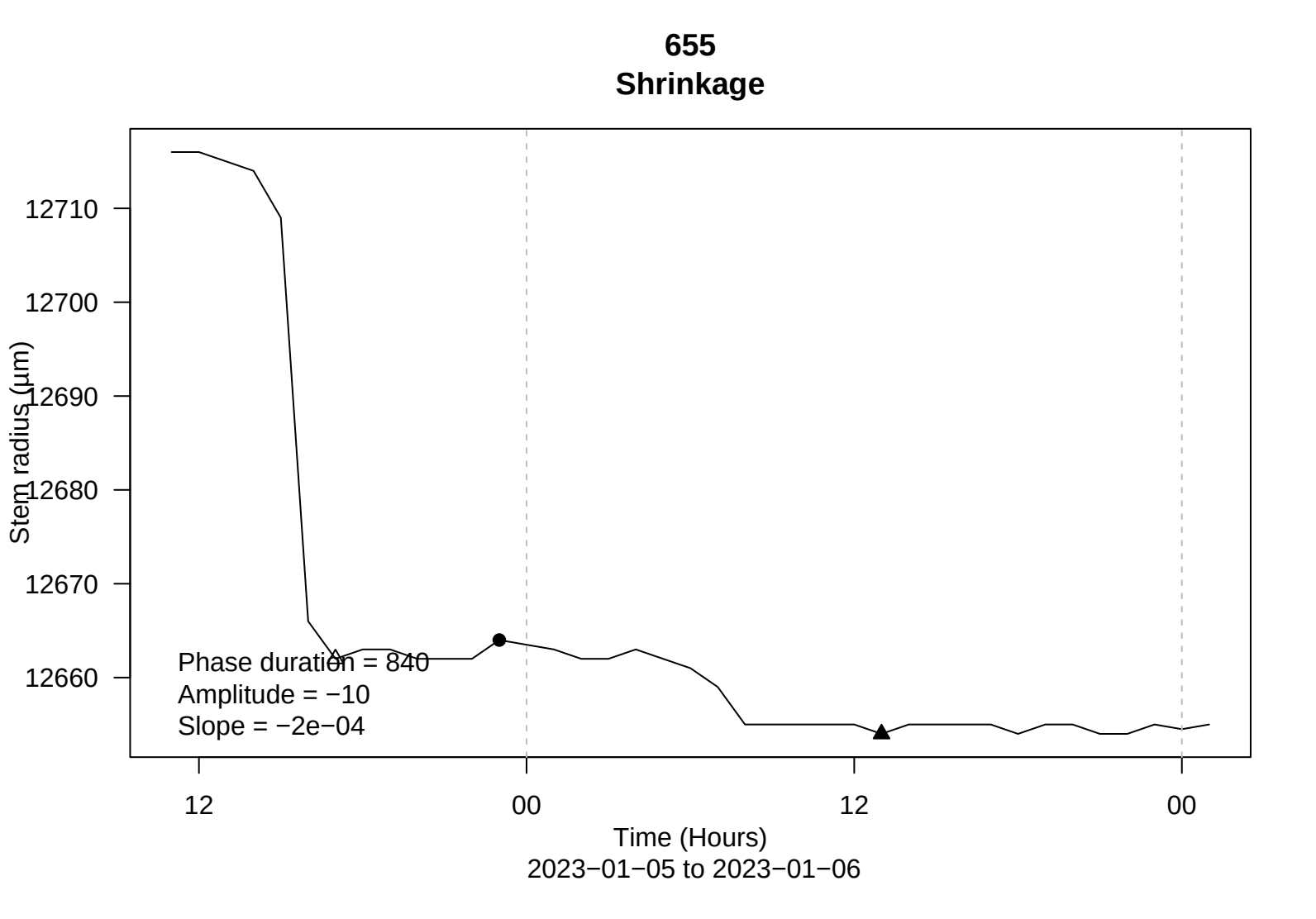

655
Shrinkage
12710
12705
12700
12695
12690
12685
12680
Stem radius (µm)
Phase duration = 1260
Amplitude = −5
Slope = 0
00
12
00
12
Time (Hours)
2023−01−02 to 2023−01−03

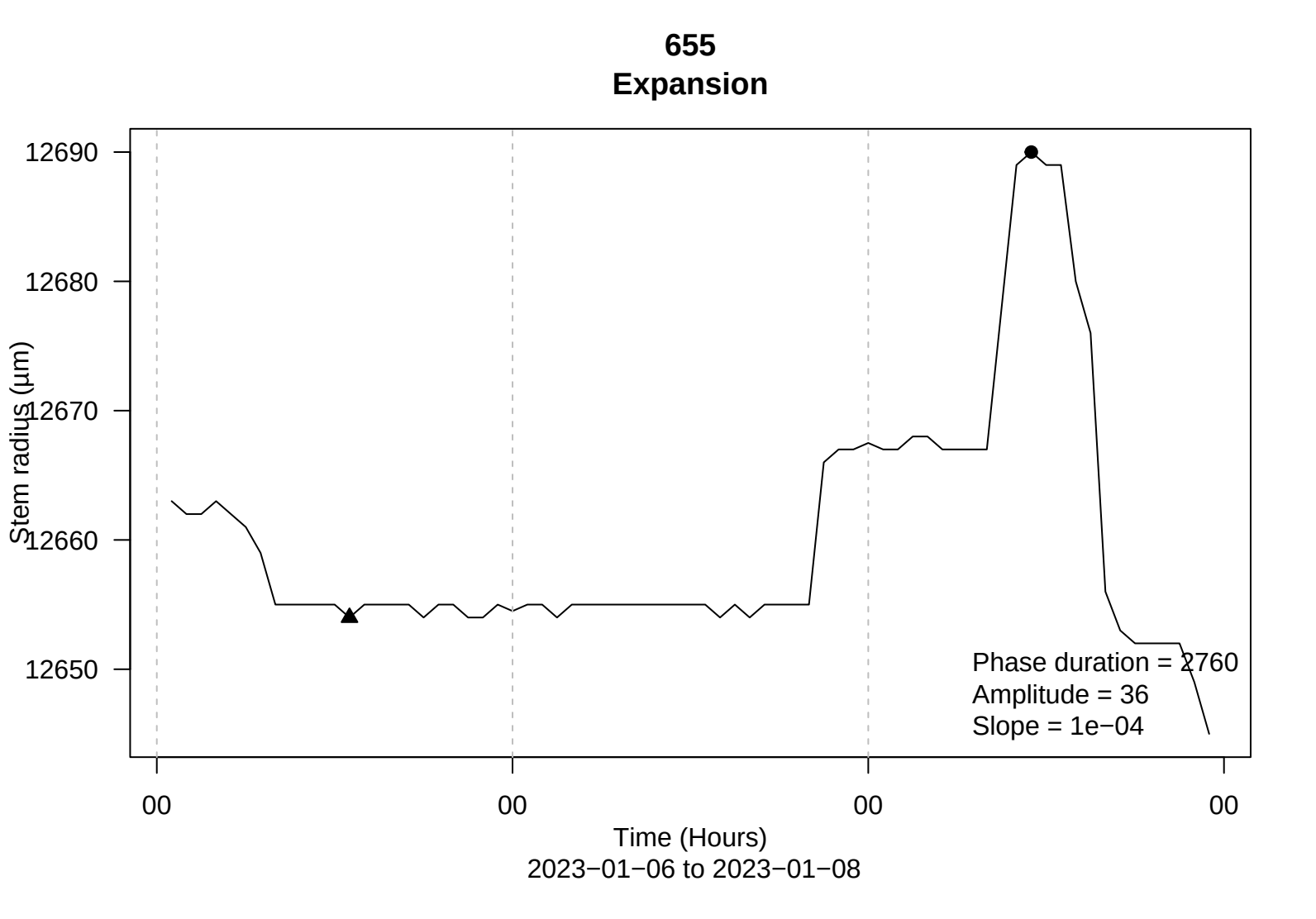

655
Expansion
12712
12711
12710
12709
12708
12707
12706
12705
Stem radius (µm)
Phase duration = 600
Amplitude = 7
Slope = 1e−04
00
12
00
Time (Hours)
2023−01−03 to 2023−01−03

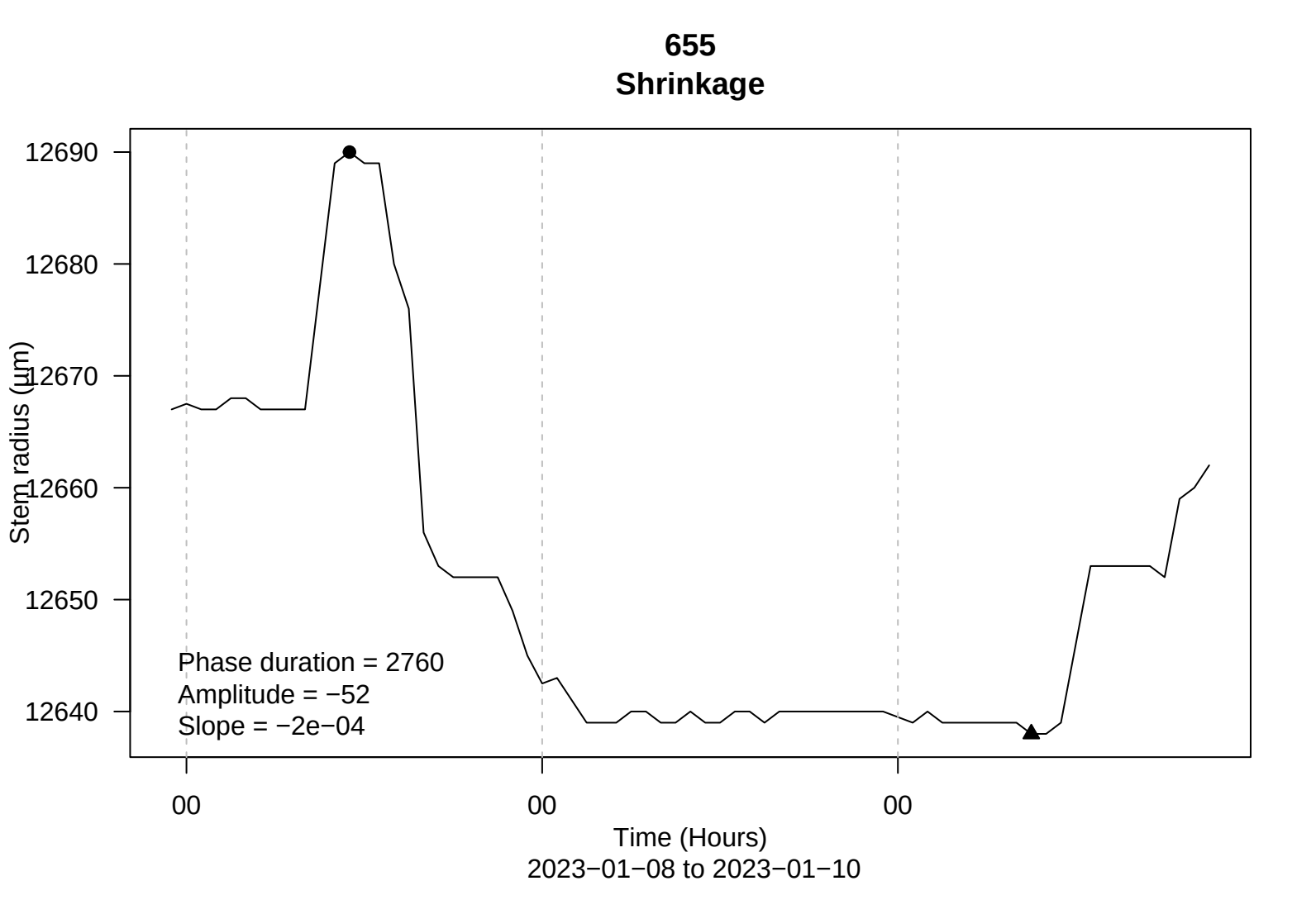

655
Expansion
12716
12714
12712
12710
12708
12706
Stem radius (µm)
Phase duration = 1020
Amplitude = 7
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−01−03 to 2023−01−04

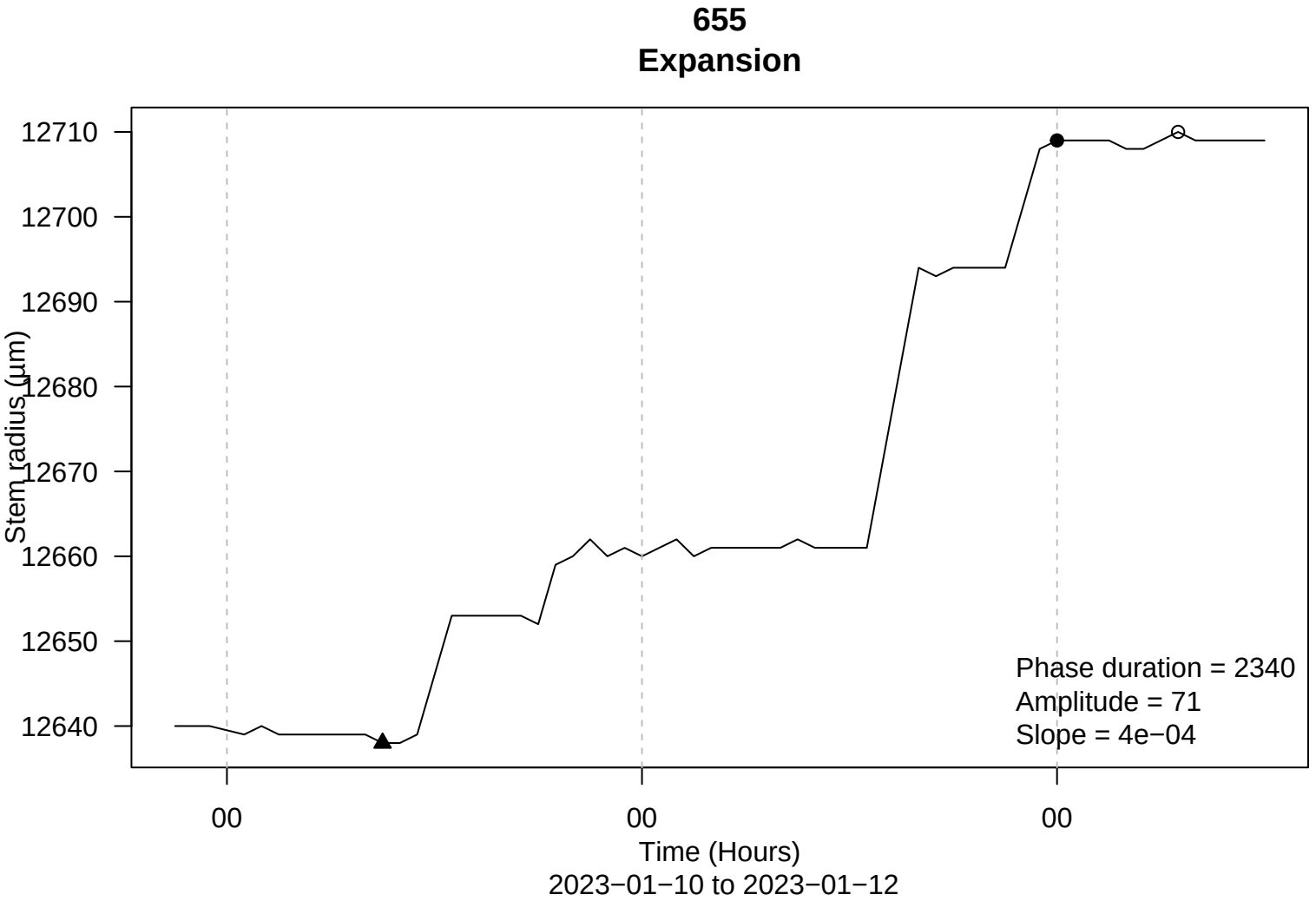

655
Shrinkage
12710
12700
12690
12680
12670
12660
Stem radius (µm)
Phase duration = 1620
Amplitude = −54
Slope = −2e−04
00
12
00
12
00
Time (Hours)
2023−01−04 to 2023−01−05

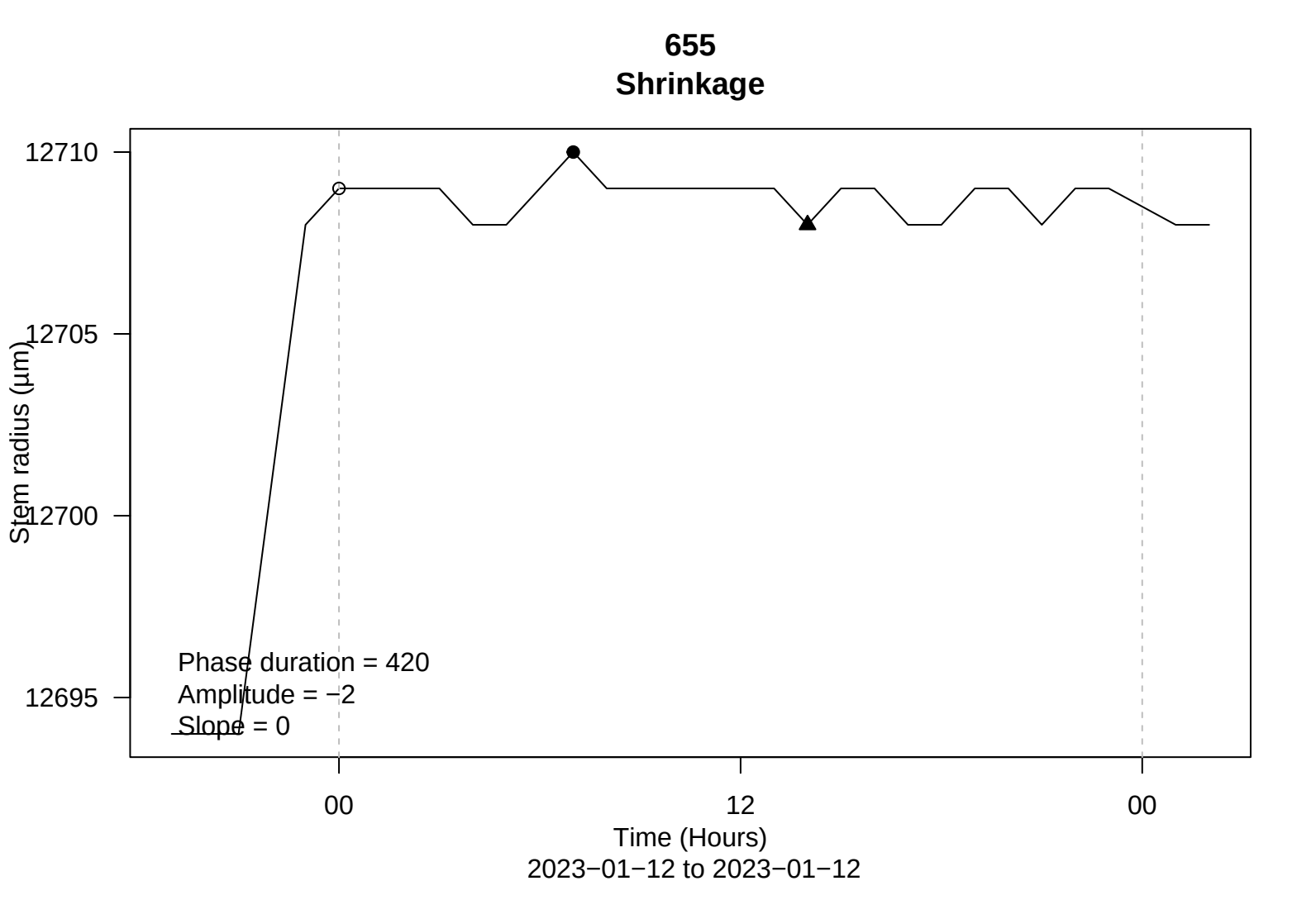

655
Expansion
12710
12700
12690
12680
12670
12660
Stem radius (µm)
Phase duration = 360
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2023−01−05 to 2023−01−05

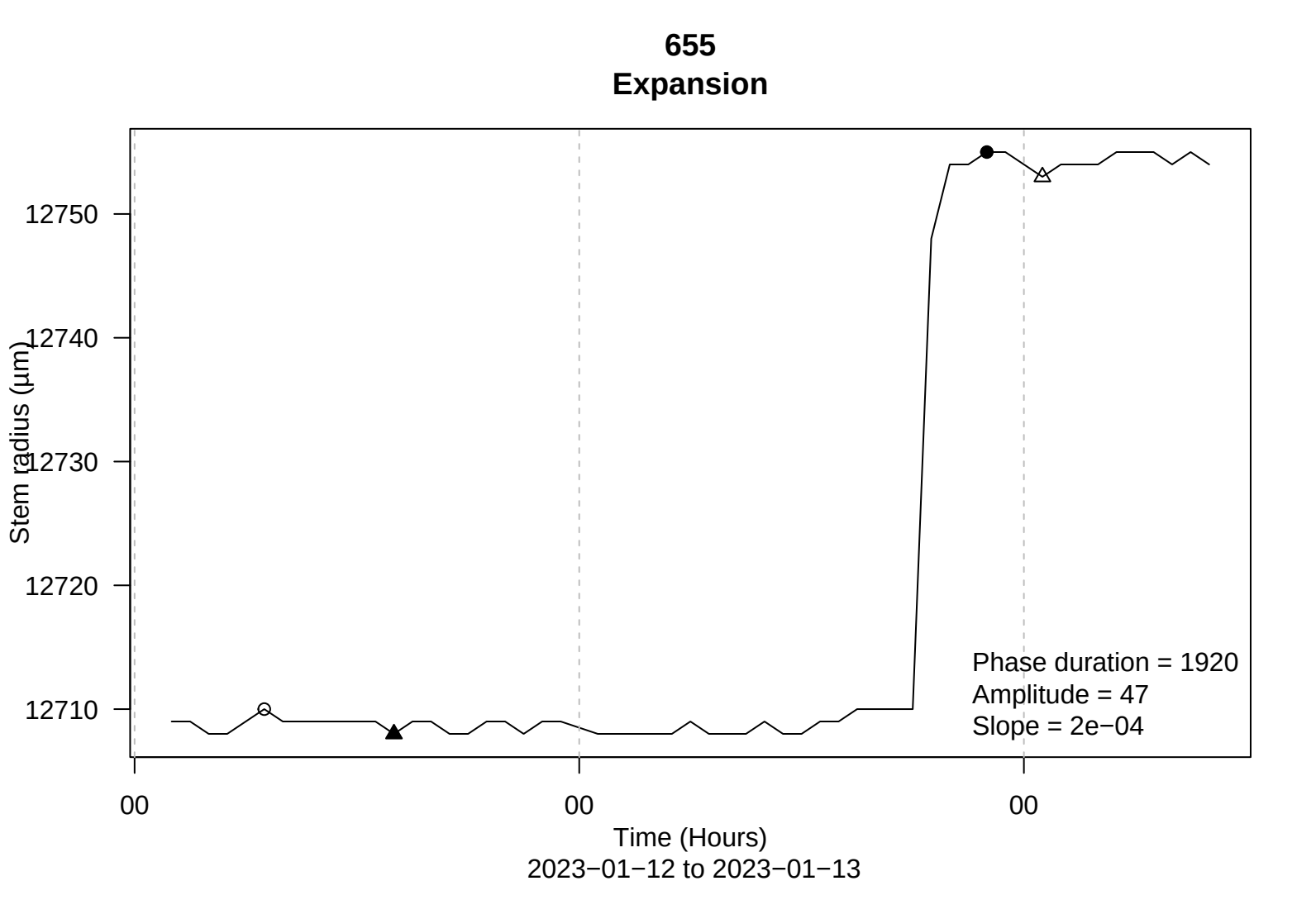

655
Shrinkage
12710
12700
12690
12680
12670
12660
Stem radius (µm)
Phase duration = 840
Amplitude = −10
Slope = −2e−04
12
00
12
00
Time (Hours)
2023−01−05 to 2023−01−06

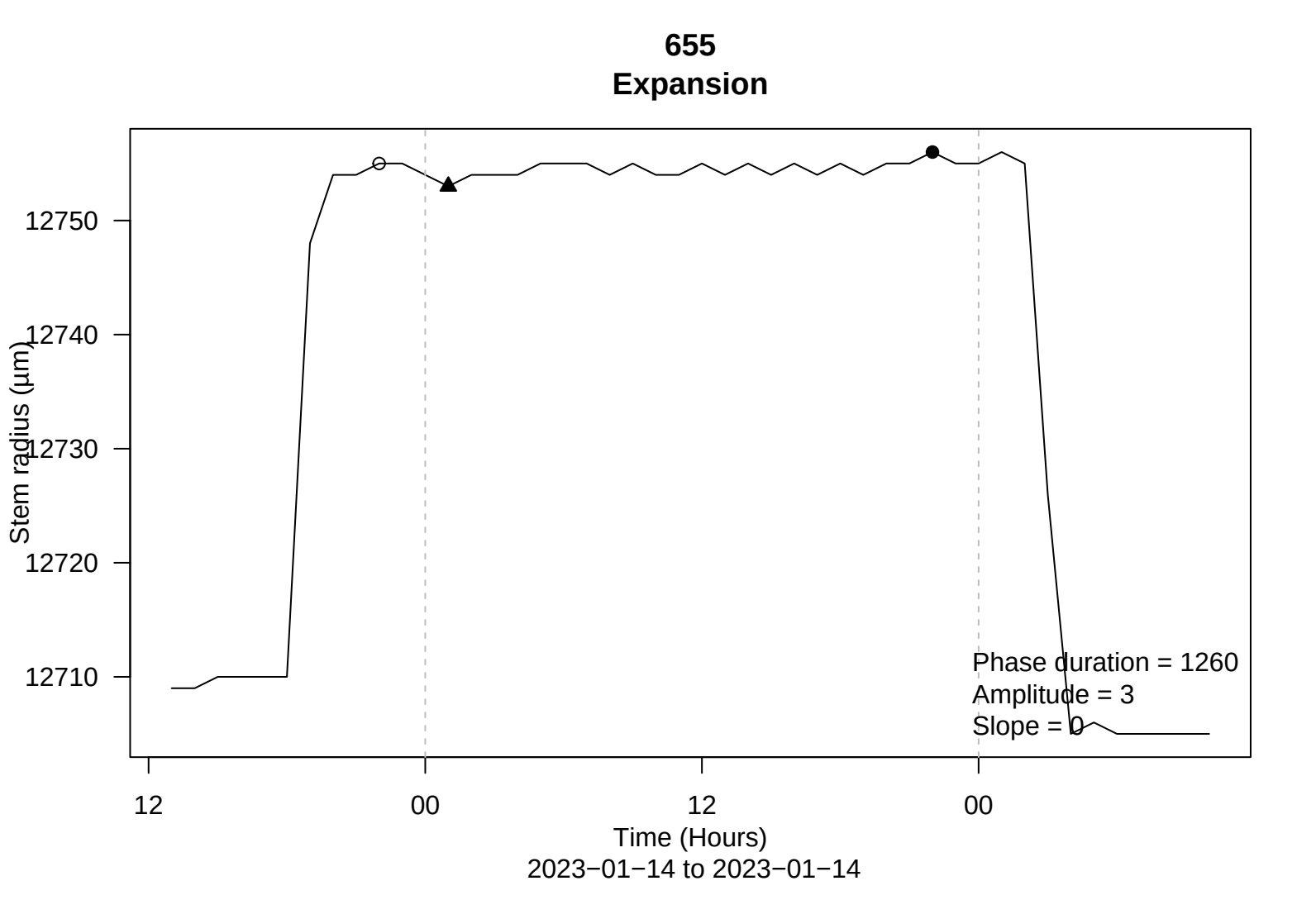

655
Expansion
12690
12680
12670
12660
12650
Stem radius (µm)
Phase duration = 2760
Amplitude = 36
Slope = 1e−04
00
00
00
00
Time (Hours)
2023−01−06 to 2023−01−08

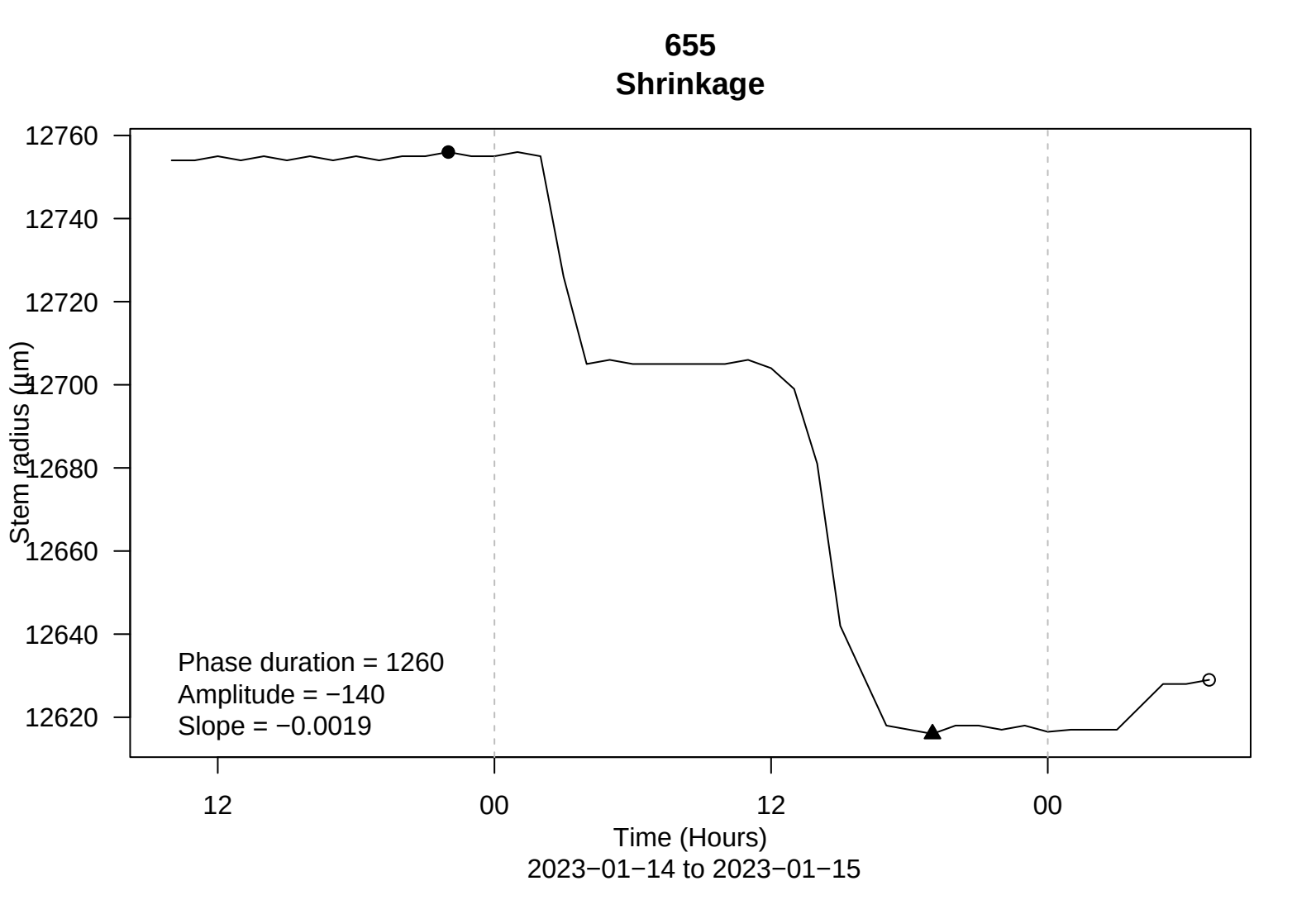

655
Shrinkage
12690
12680
12670
12660
12650
12640
Stem radius (µm)
Phase duration = 2760
Amplitude = −52
Slope = −2e−04
00
00
00
Time (Hours)
2023−01−08 to 2023−01−10

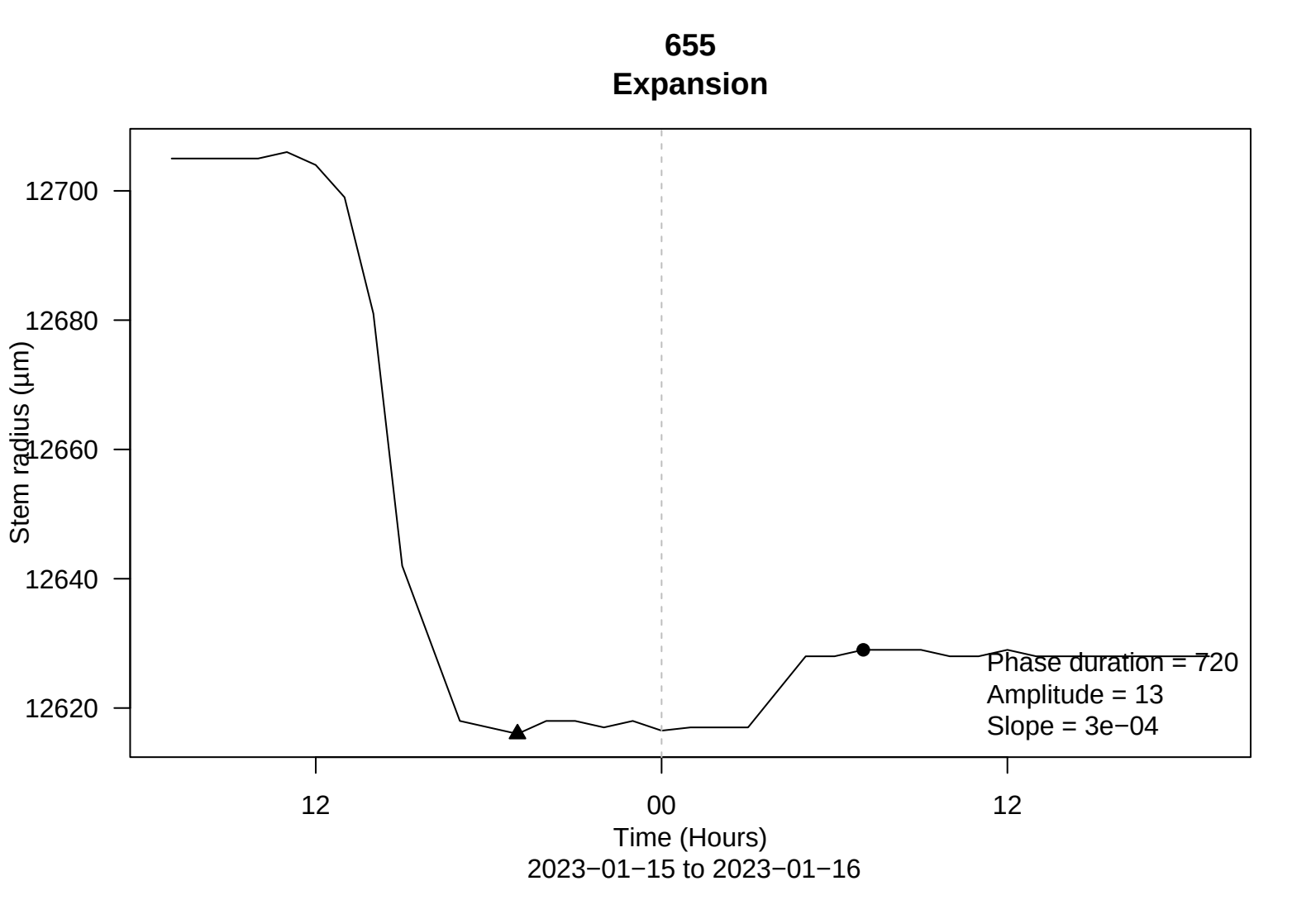

655
Expansion
12710
12700
12690
12680
12670
12660
12650
12640
Stem radius (µm)
Phase duration = 2340
Amplitude = 71
Slope = 4e−04
00
00
00
Time (Hours)
2023−01−10 to 2023−01−12

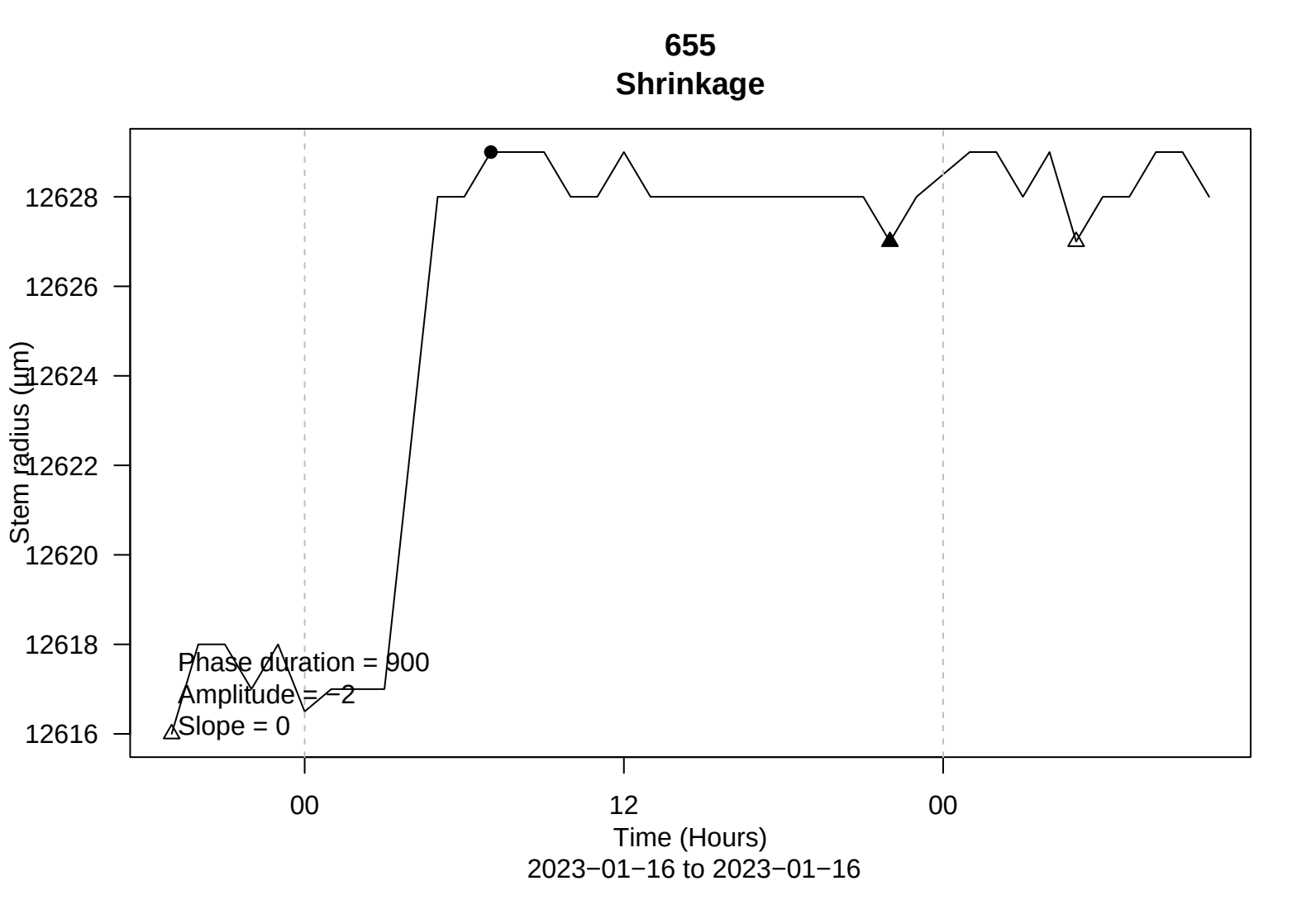

655
Shrinkage
12710
12705
12700
12695
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−01−12 to 2023−01−12

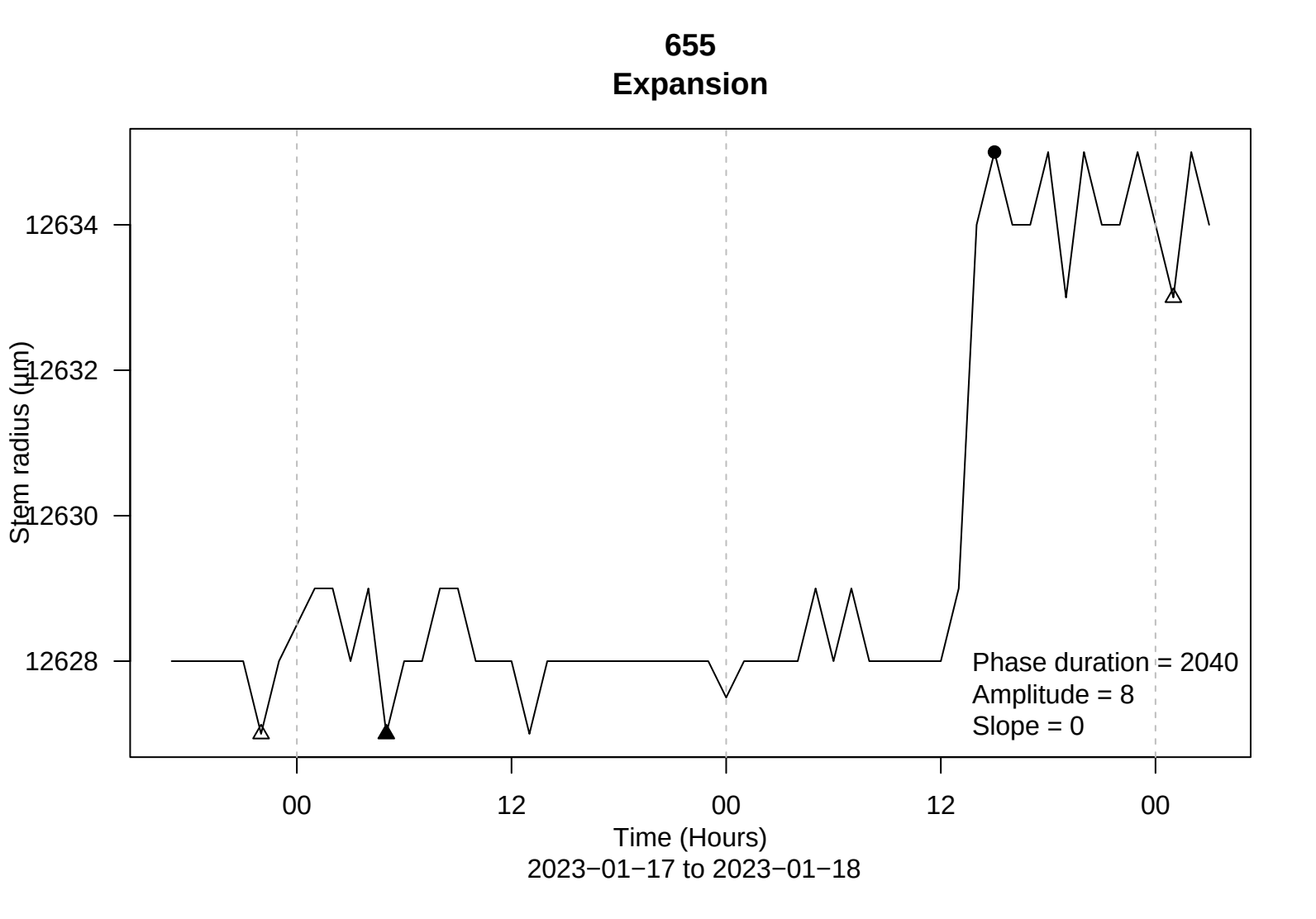

655
Expansion
12750
12740
12730
12720
12710
Stem radius (µm)
Phase duration = 1920
Amplitude = 47
Slope = 2e−04
00
00
00
Time (Hours)
2023−01−12 to 2023−01−13

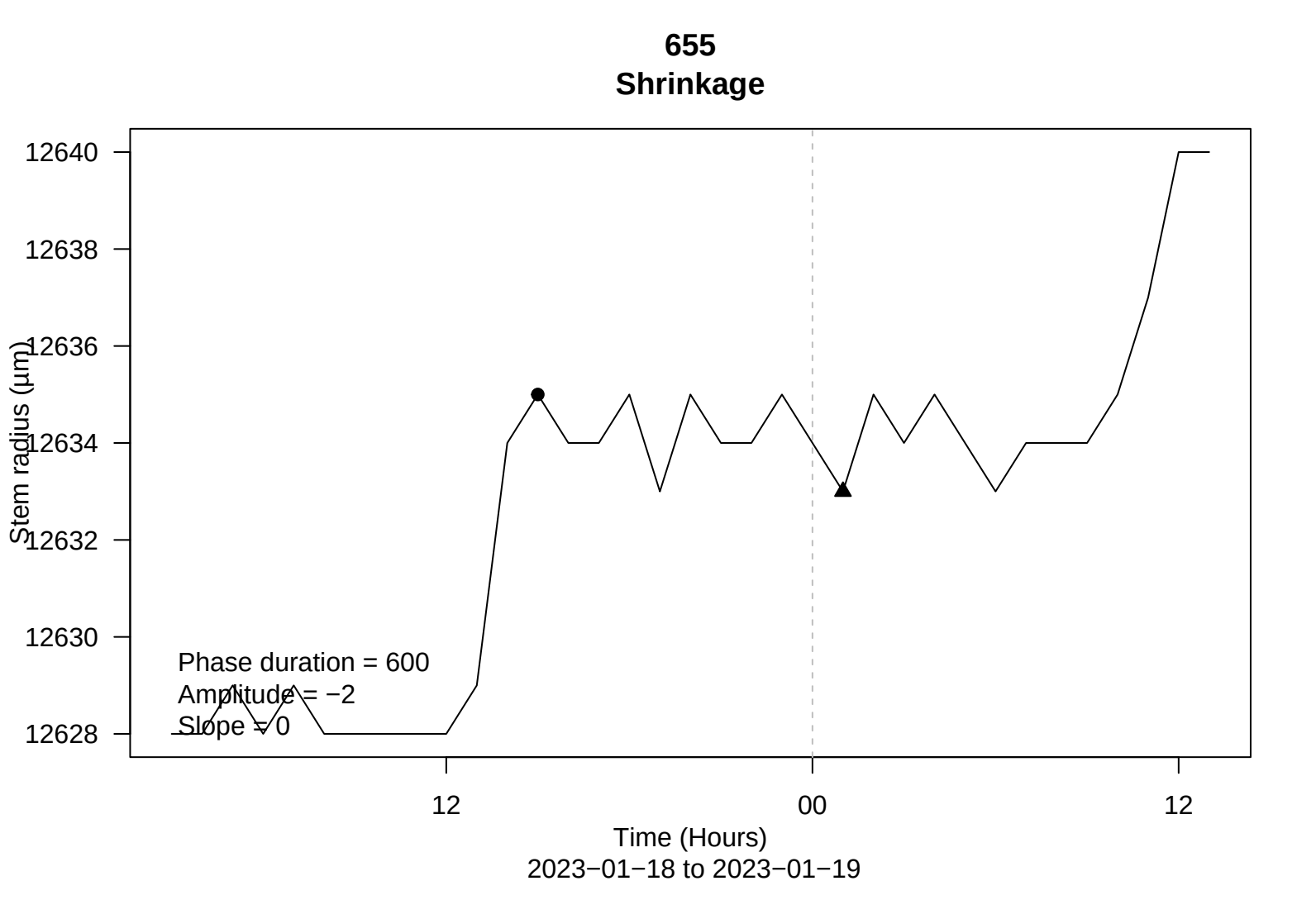

655
Expansion
12750
12740
12730
12720
12710
Stem radius (µm)
Phase duration = 1260
Amplitude = 3
Slope = 0
12
00
12
00
Time (Hours)
2023−01−14 to 2023−01−14

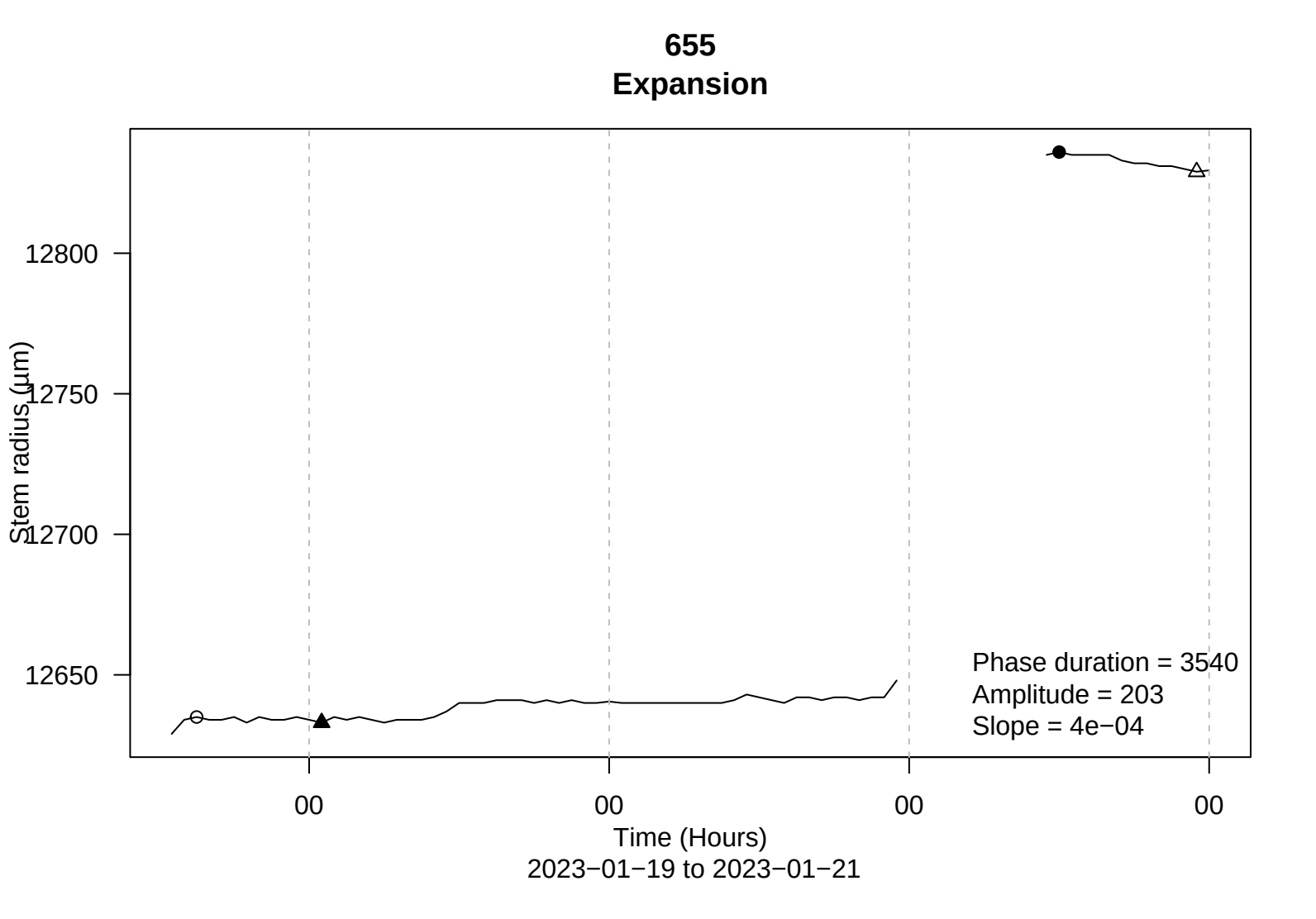

655
Shrinkage
12760
12740
12720
12700
12680
12660
12640
12620
Stem radius (µm)
Phase duration = 1260
Amplitude = −140
Slope = −0.0019
12
00
12
00
Time (Hours)
2023−01−14 to 2023−01−15

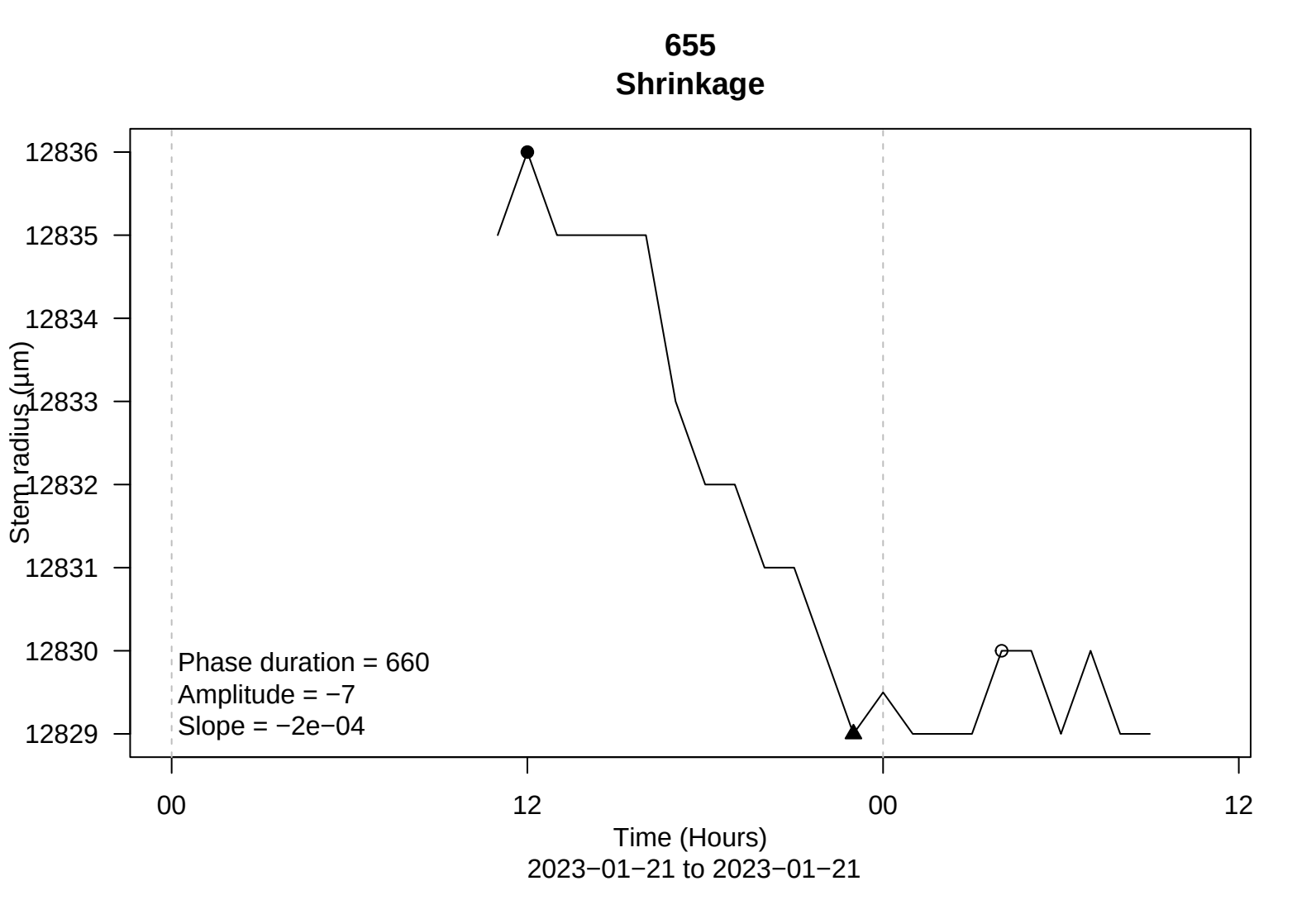

655
Expansion
12700
12680
12660
12640
12620
Stem radius (µm)
12
00
12
Time (Hours)
2023−01−15 to 2023−01−16
Phase duration = 720
Amplitude = 13
Slope = 3e−04

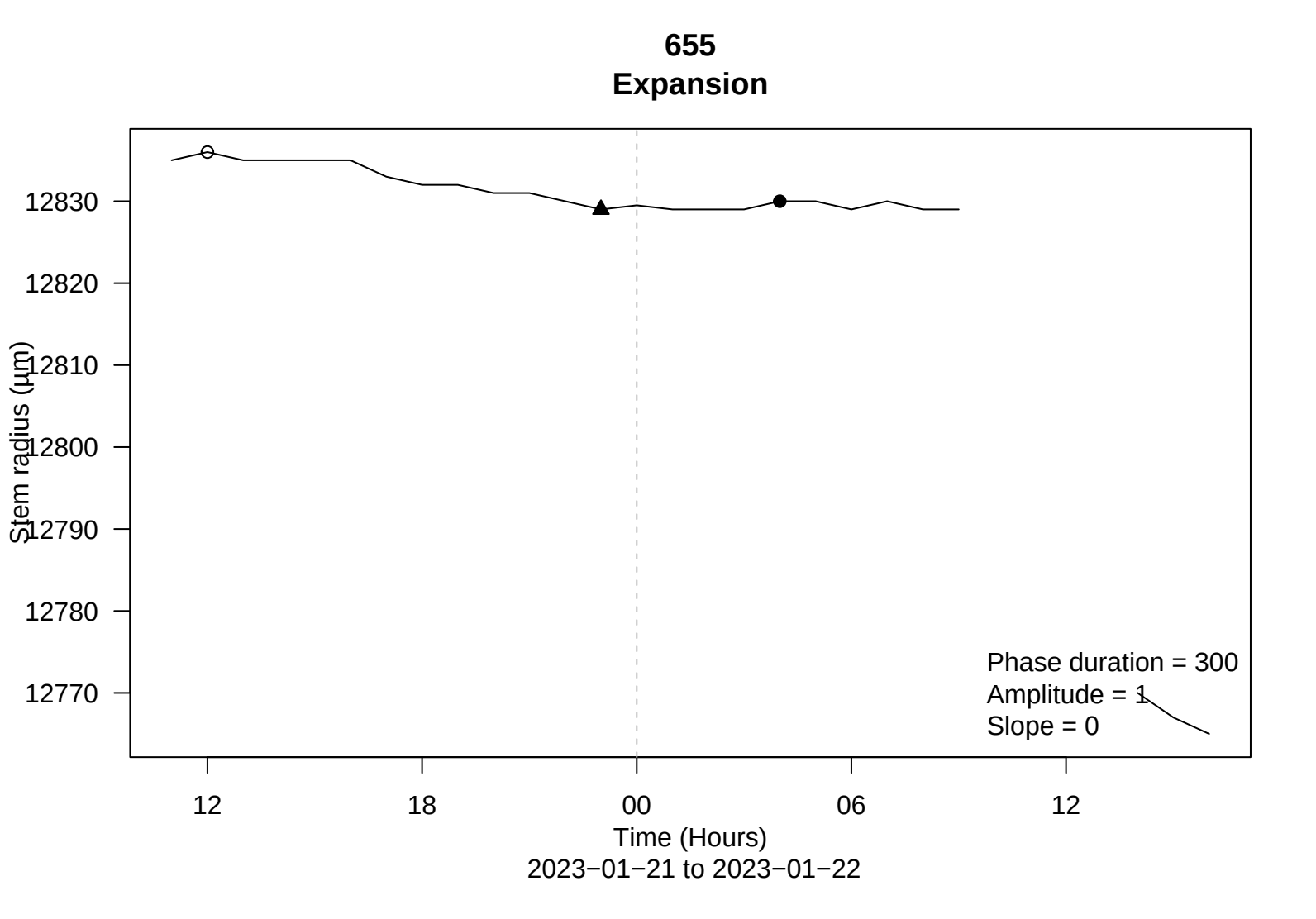

655
Shrinkage
12628
12626
12624
12622
12620
12618
12616
Stem radius (µm)
Phase duration = 900
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−01−16 to 2023−01−16

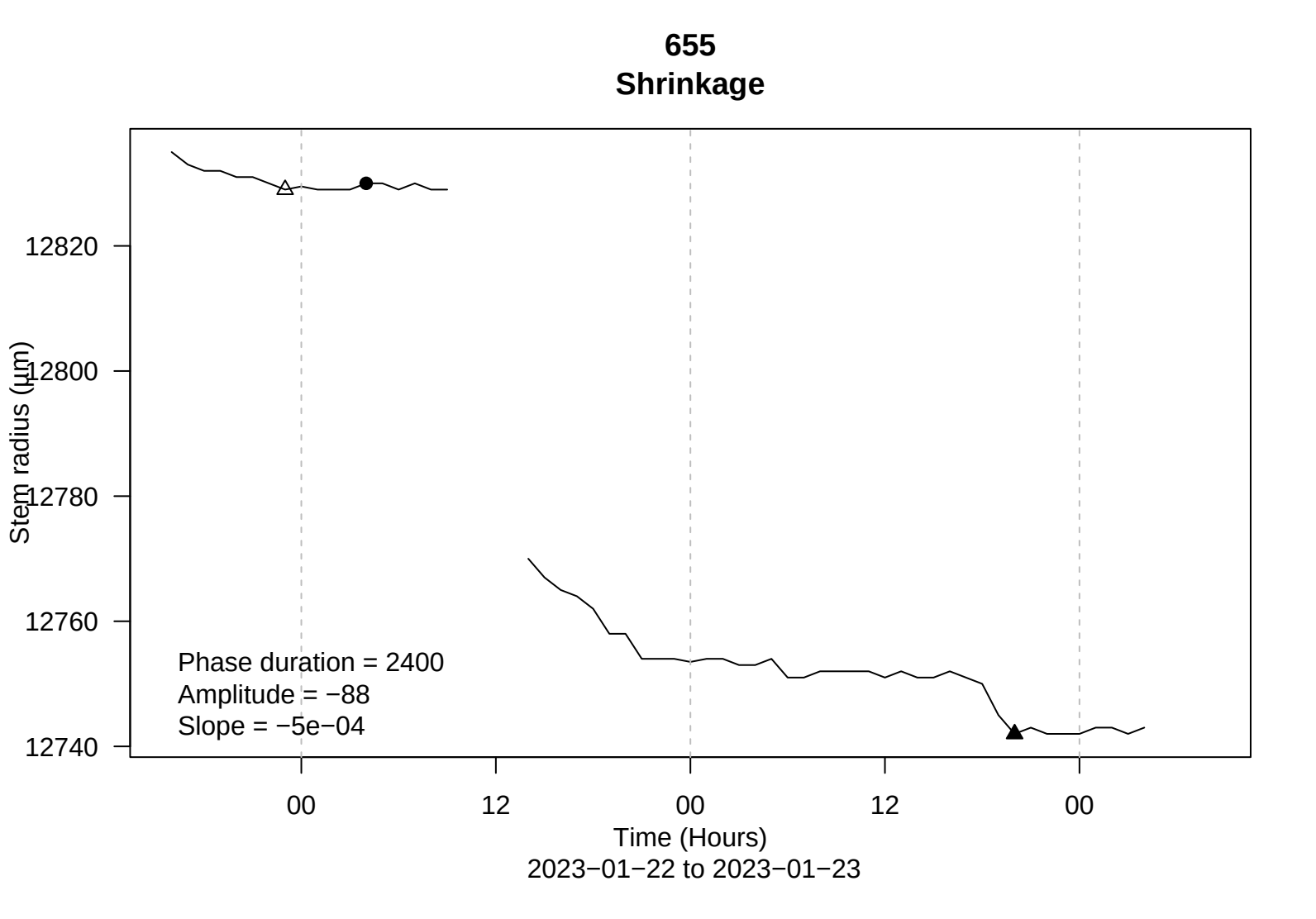

655
Expansion
12634
12632
12630
12628
Stem radius (µm)
00
12
00
12
00
Time (Hours)
2023−01−17 to 2023−01−18
Phase duration = 2040
Amplitude = 8
Slope = 0

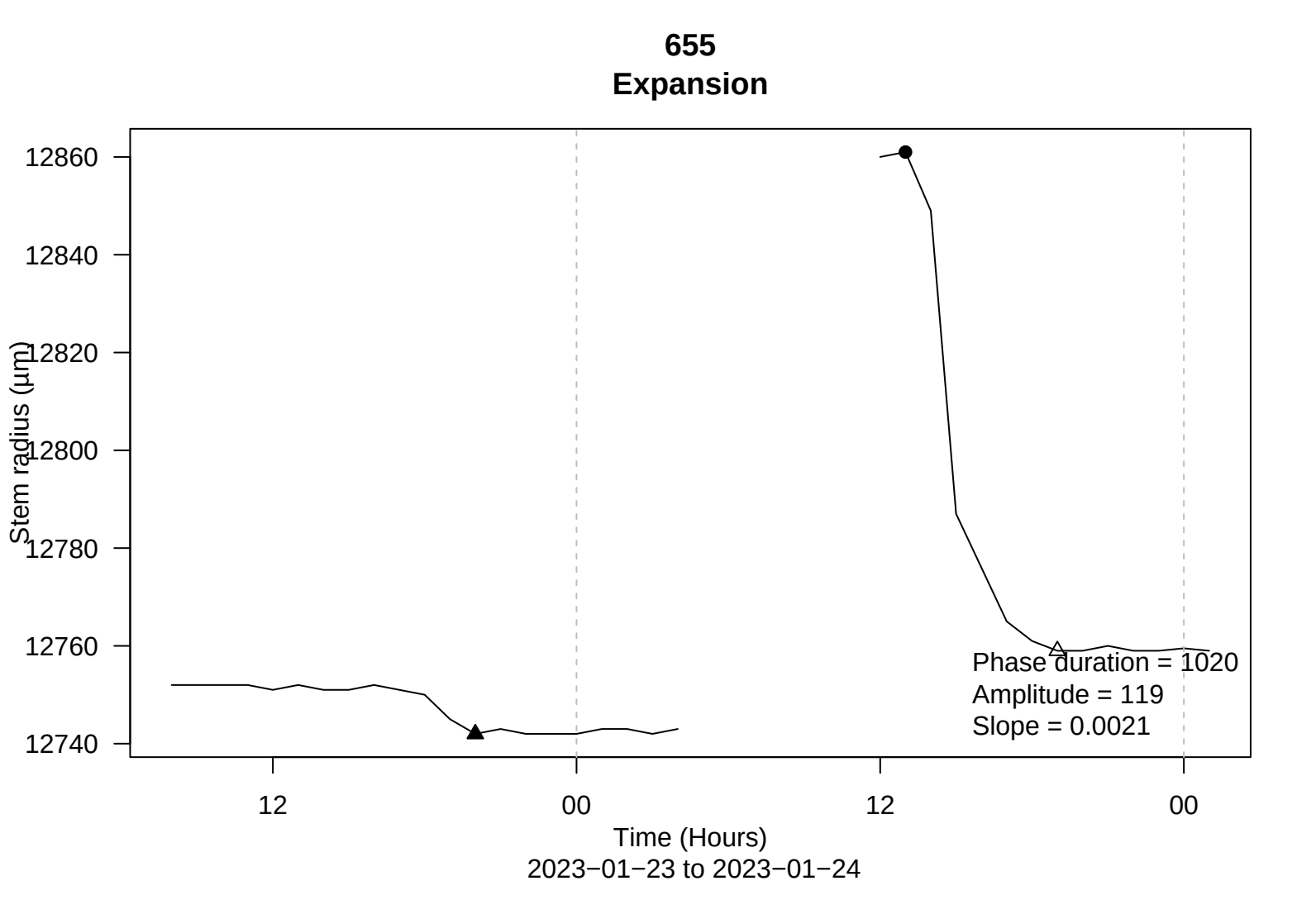

655
Shrinkage
12640
12638
12636
12634
12632
12630
12628
Stem radius (µm)
Phase duration = 600
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−01−18 to 2023−01−19

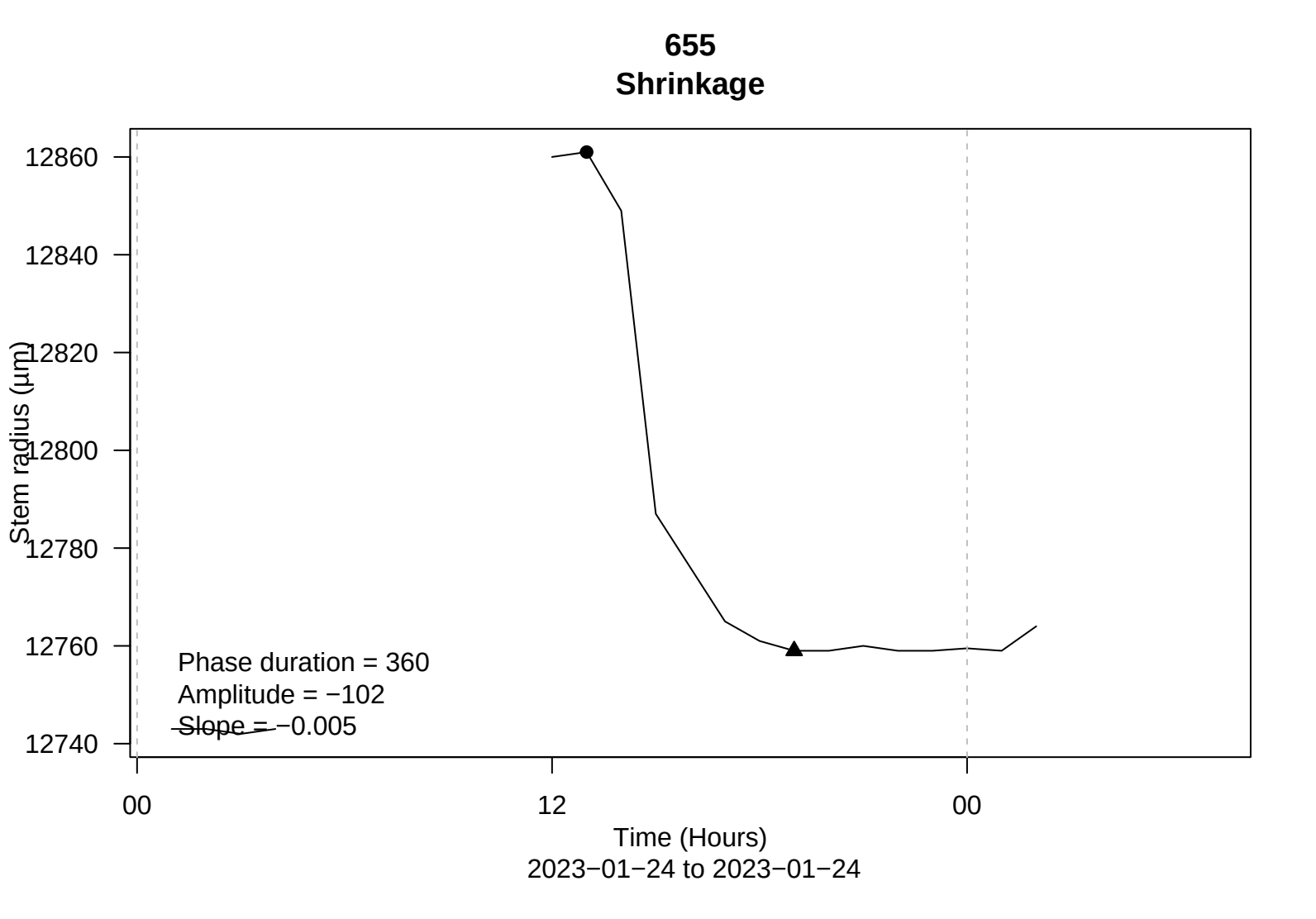

655
Expansion
12800
12750
12700
12650
Stem radius (µm)
Phase duration = 3540
Amplitude = 203
Slope = 4e−04
00
00
00
00
Time (Hours)
2023−01−19 to 2023−01−21

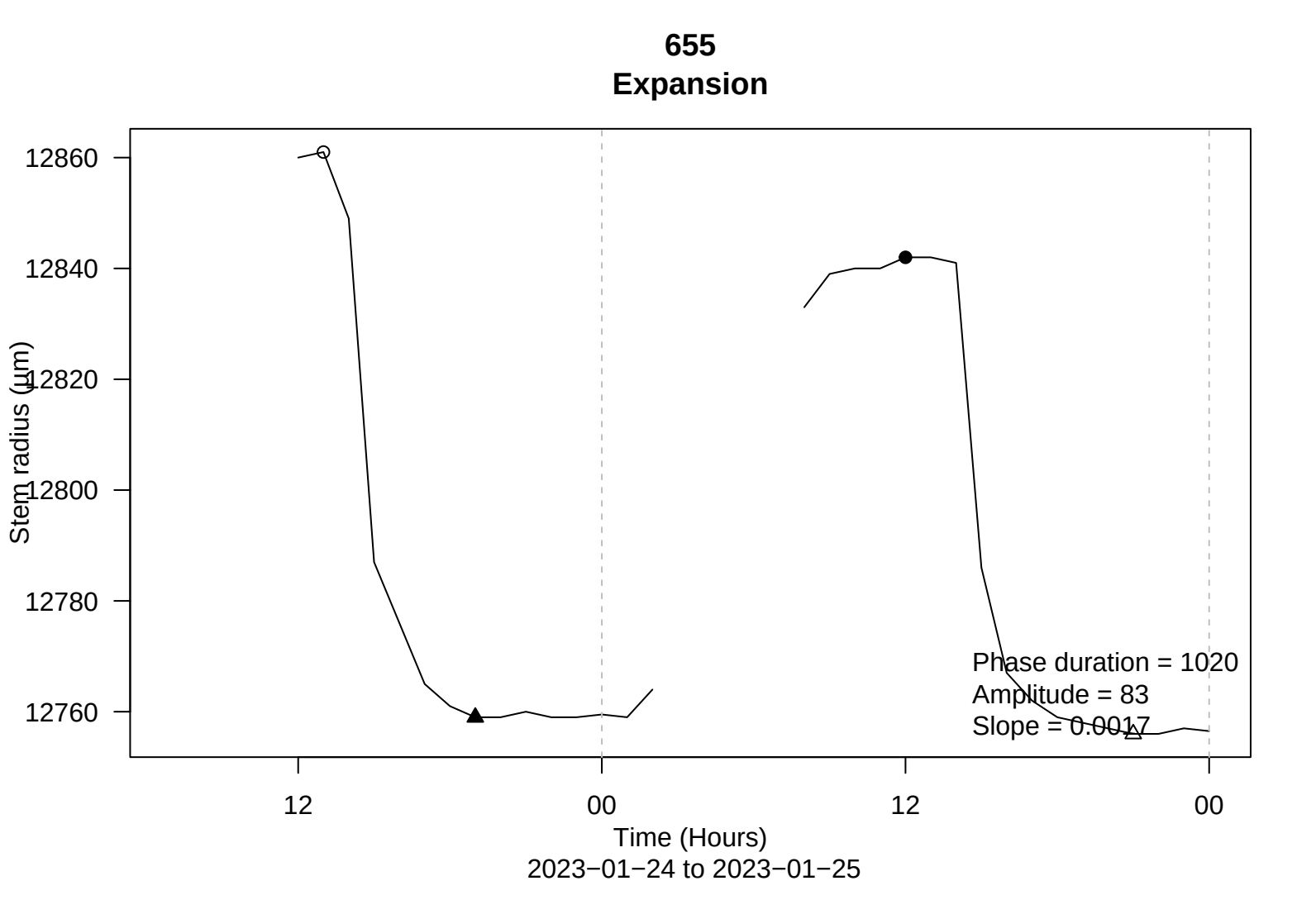

655
Shrinkage
12836
12835
12834
12833
12832
12831
12830
12829
Stem radius (µm)
Phase duration = 660
Amplitude = −7
Slope = −2e−04
00
12
00
12
Time (Hours)
2023−01−21 to 2023−01−21

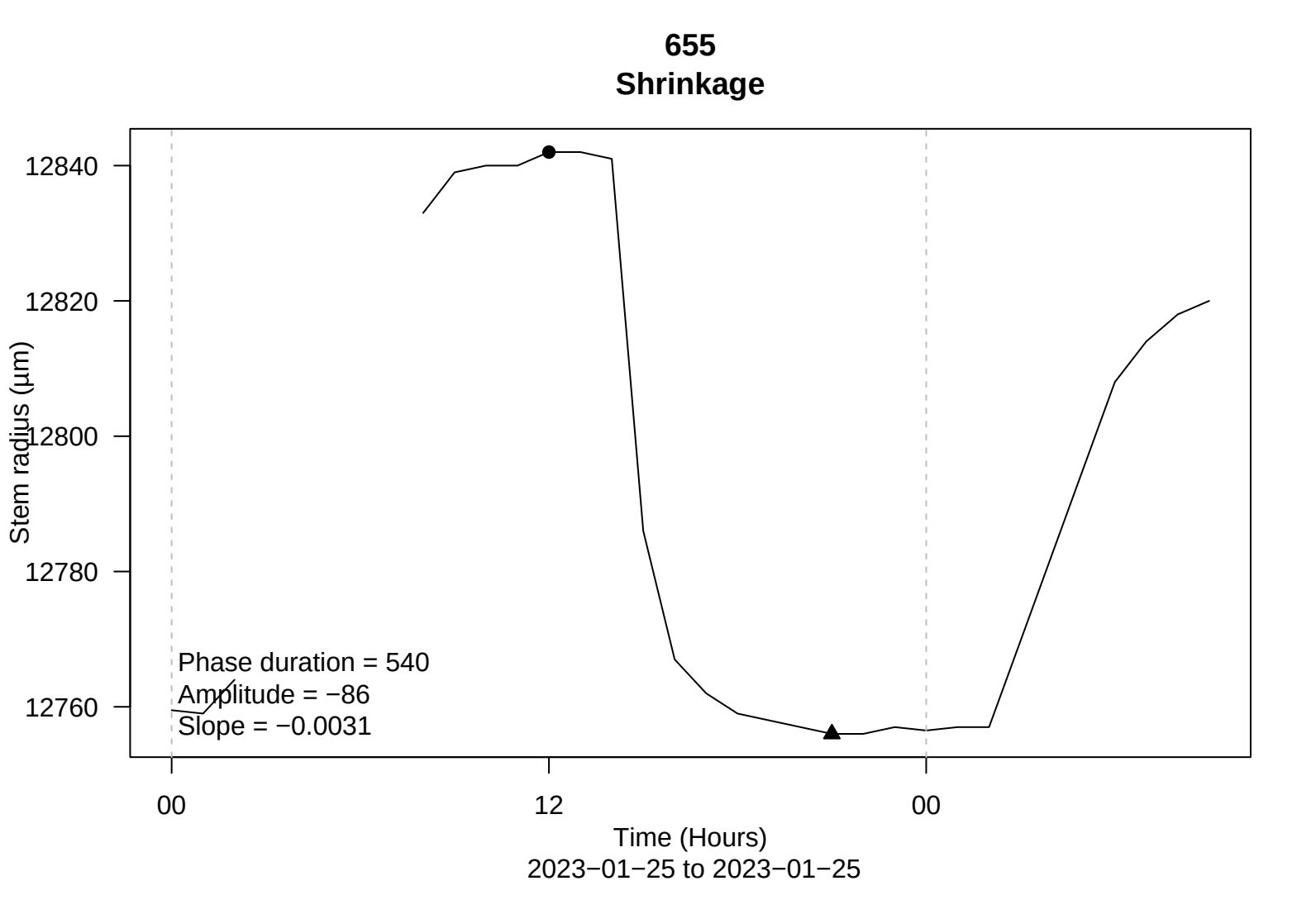

655
Expansion
12830
12820
12810
12800
12790
12780
12770
Stem radius (µm)
Phase duration = 300
Amplitude = 1
Slope = 0
12
18
00
06
12
Time (Hours)
2023−01−21 to 2023−01−22

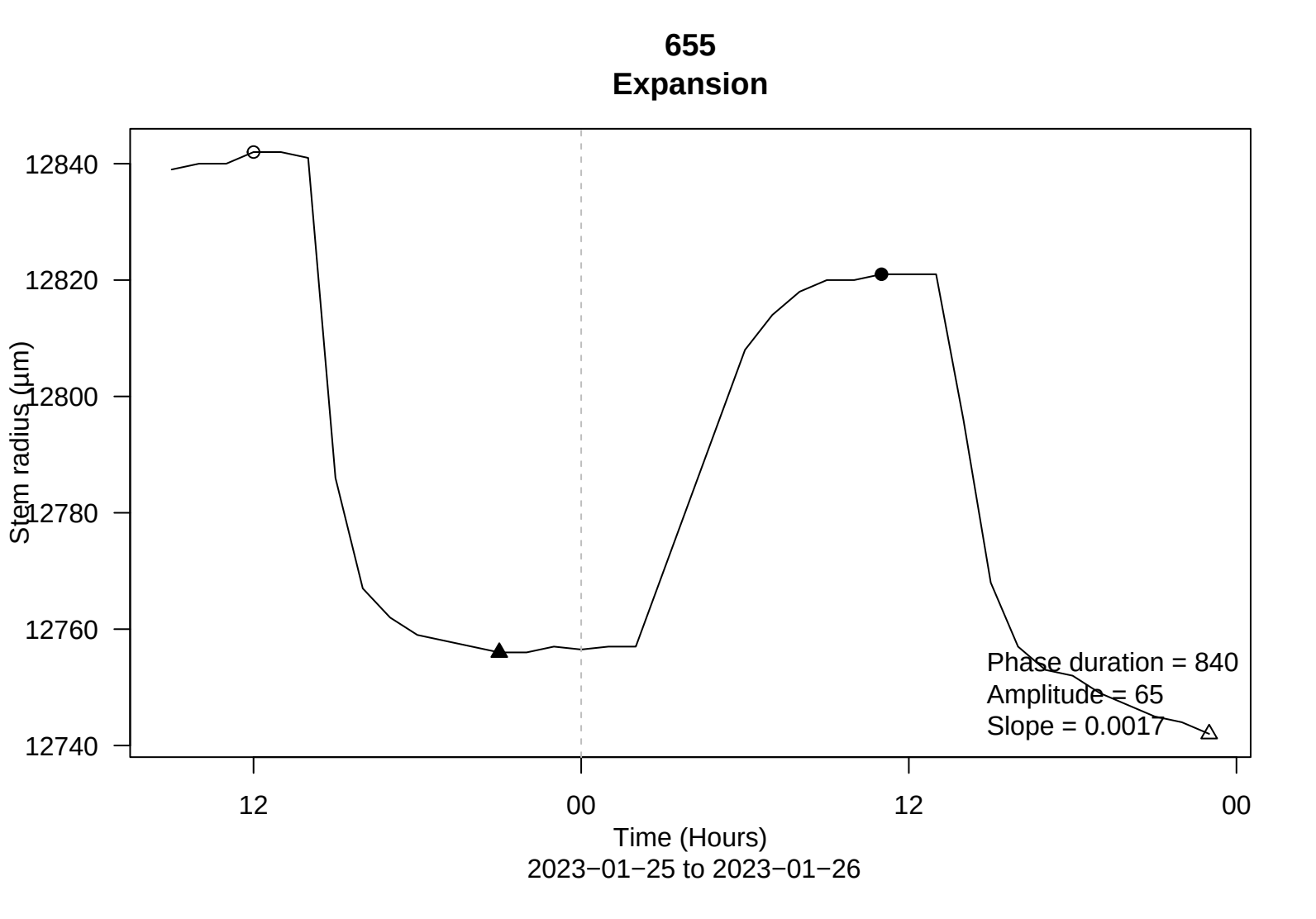

655
Shrinkage
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 2400
Amplitude = −88
Slope = −5e−04
00
12
00
12
00
Time (Hours)
2023−01−22 to 2023−01−23

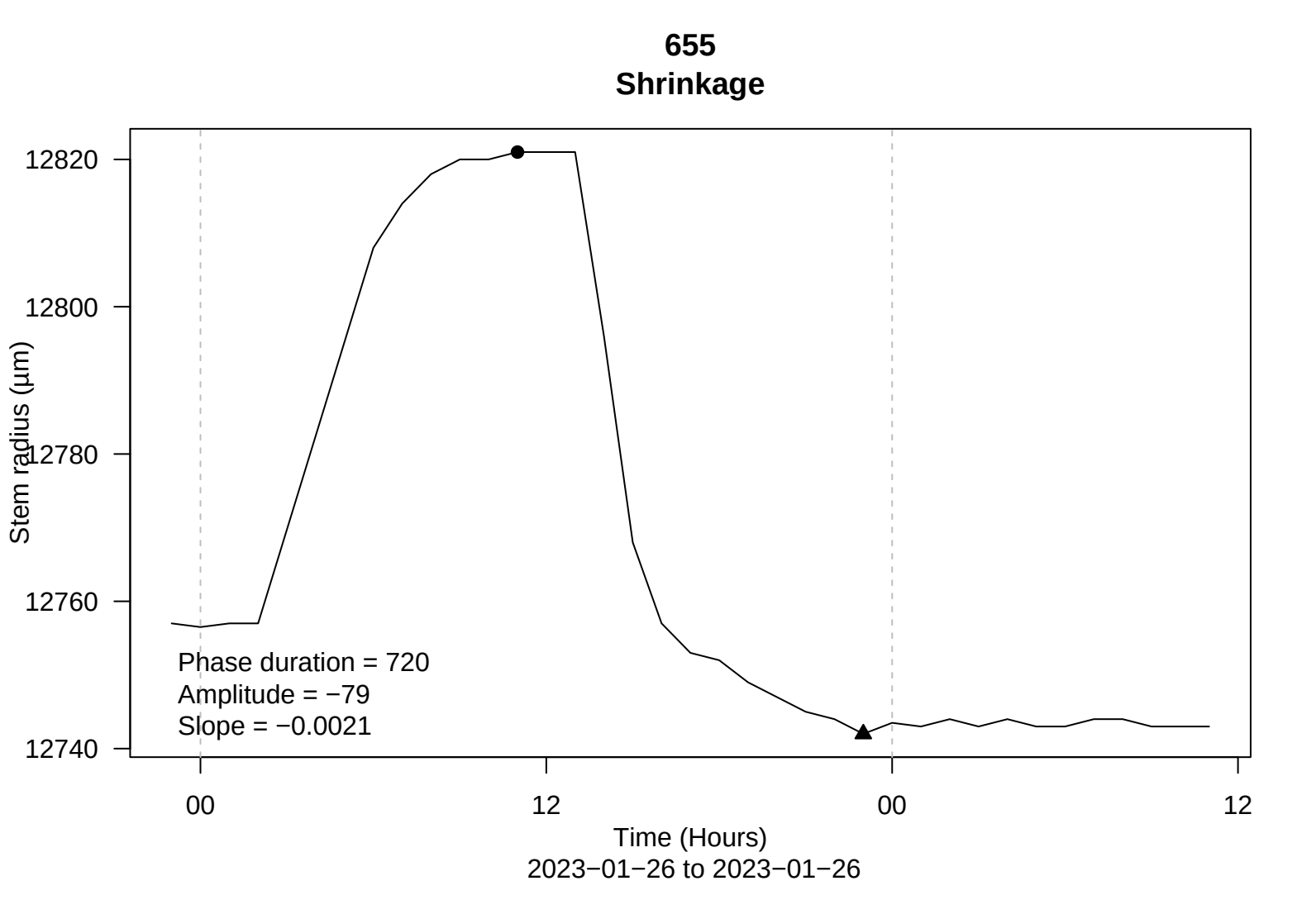

655
Expansion
12860
12840
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 1020
Amplitude = 119
Slope = 0.0021
12
00
12
00
Time (Hours)
2023−01−23 to 2023−01−24

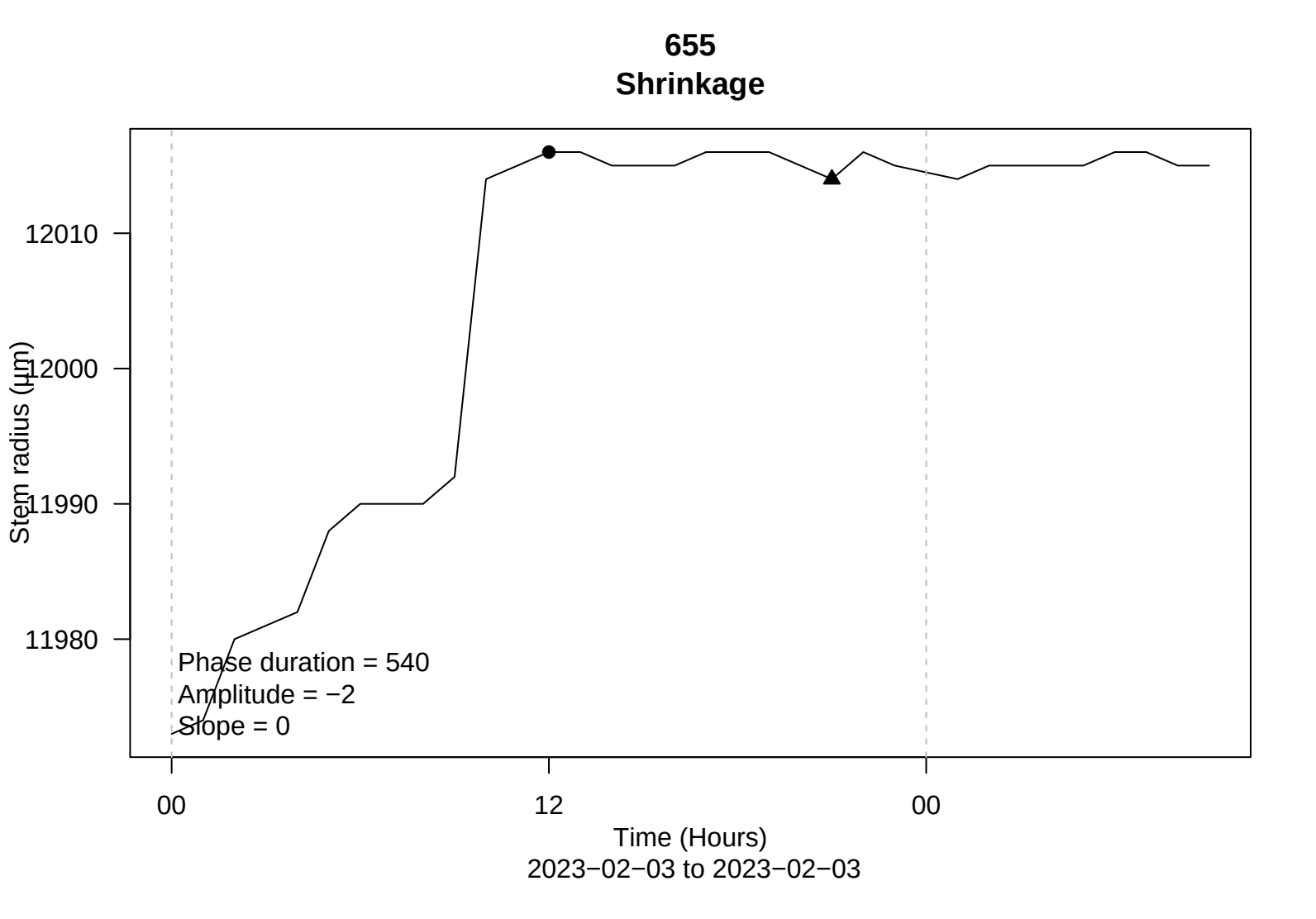

655
Shrinkage
12860
12840
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 360
Amplitude = −102
Slope = −0.005
00
12
00
Time (Hours)
2023−01−24 to 2023−01−24

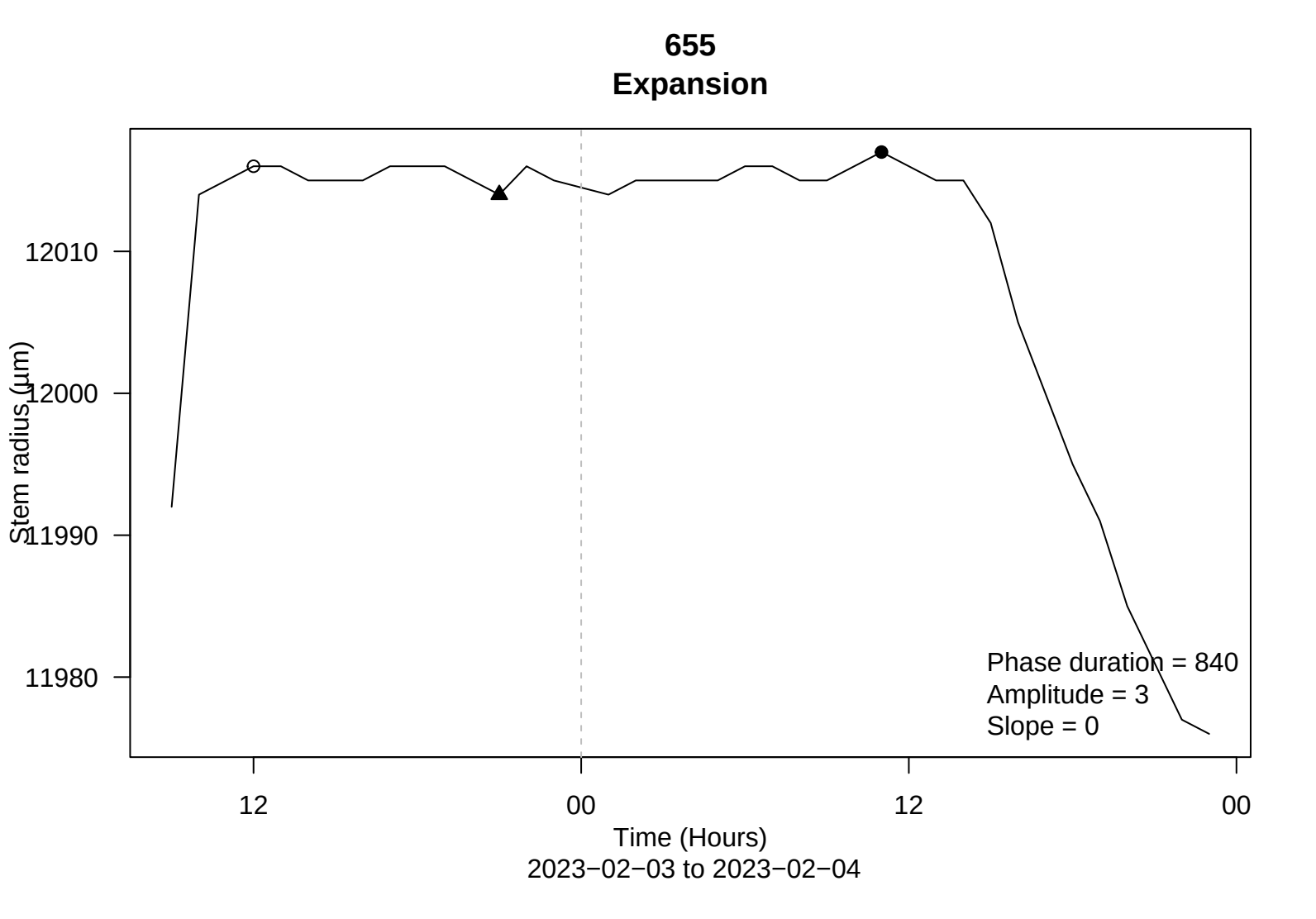

655
Expansion
12860
12840
12820
12800
12780
12760
Stem radius (µm)
Phase duration = 1020
Amplitude = 83
Slope = 0.0017
12
00
12
00
Time (Hours)
2023−01−24 to 2023−01−25

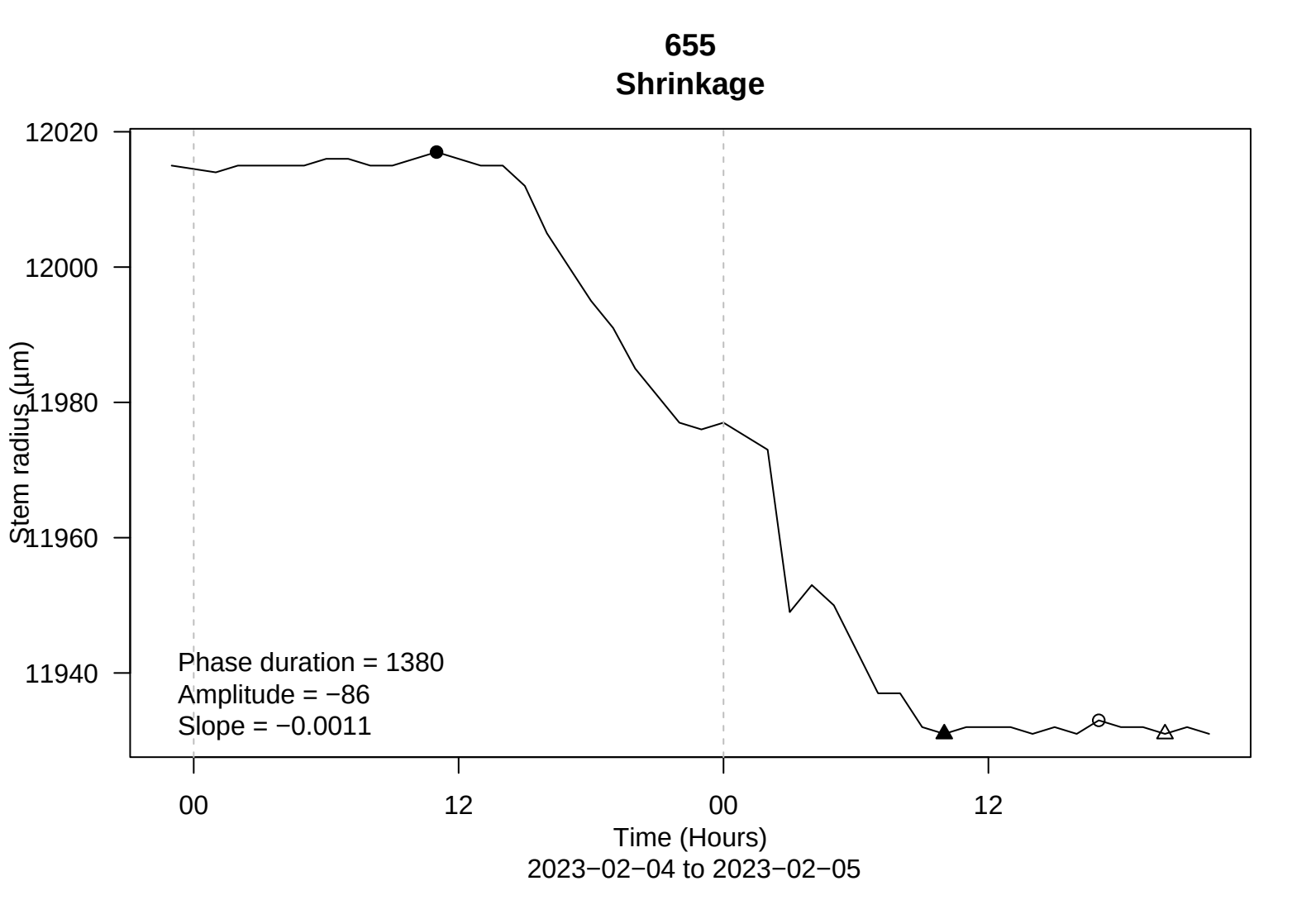

655
Shrinkage
12840
12820
12800
12780
12760
Stem radius (µm)
Phase duration = 540
Amplitude = −86
Slope = −0.0031
00
12
00
Time (Hours)
2023−01−25 to 2023−01−25

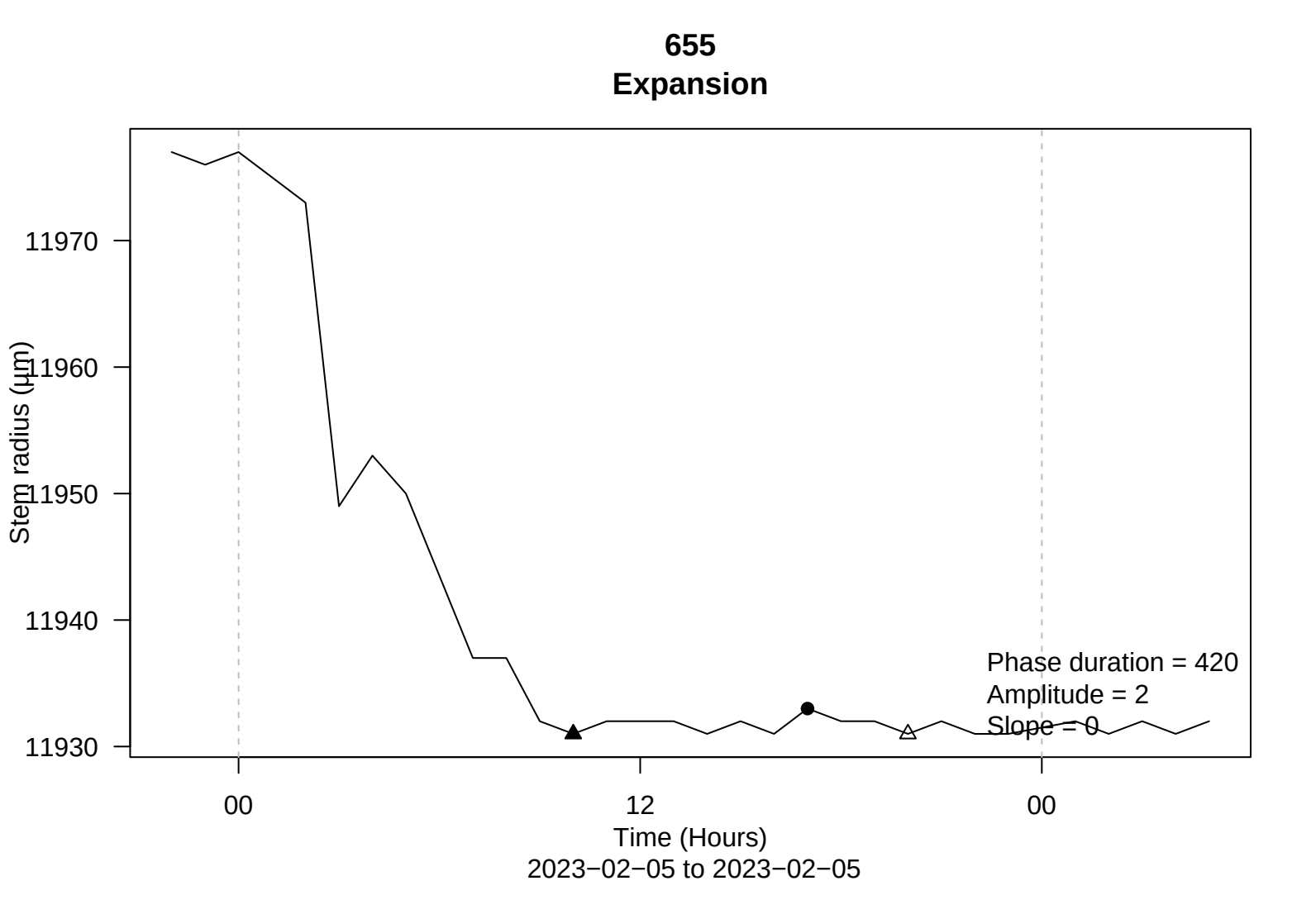

655
Expansion
12840
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 840
Amplitude = 65
Slope = 0.0017
12
00
12
00
Time (Hours)
2023−01−25 to 2023−01−26

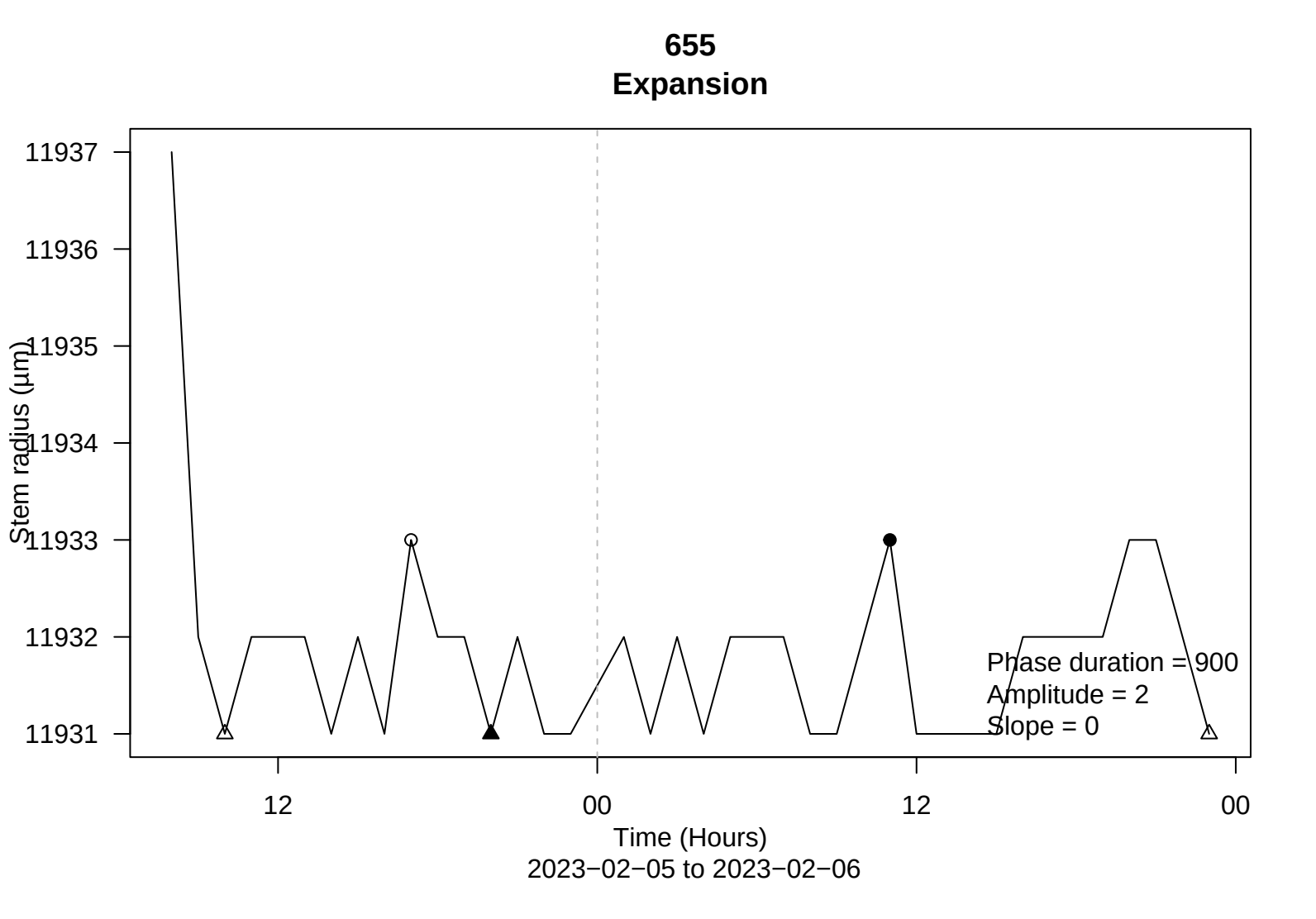

655
Shrinkage
12820
12800
12780
12760
12740
Stem radius (µm)
Phase duration = 720
Amplitude = −79
Slope = −0.0021
00
12
00
12
Time (Hours)
2023−01−26 to 2023−01−26

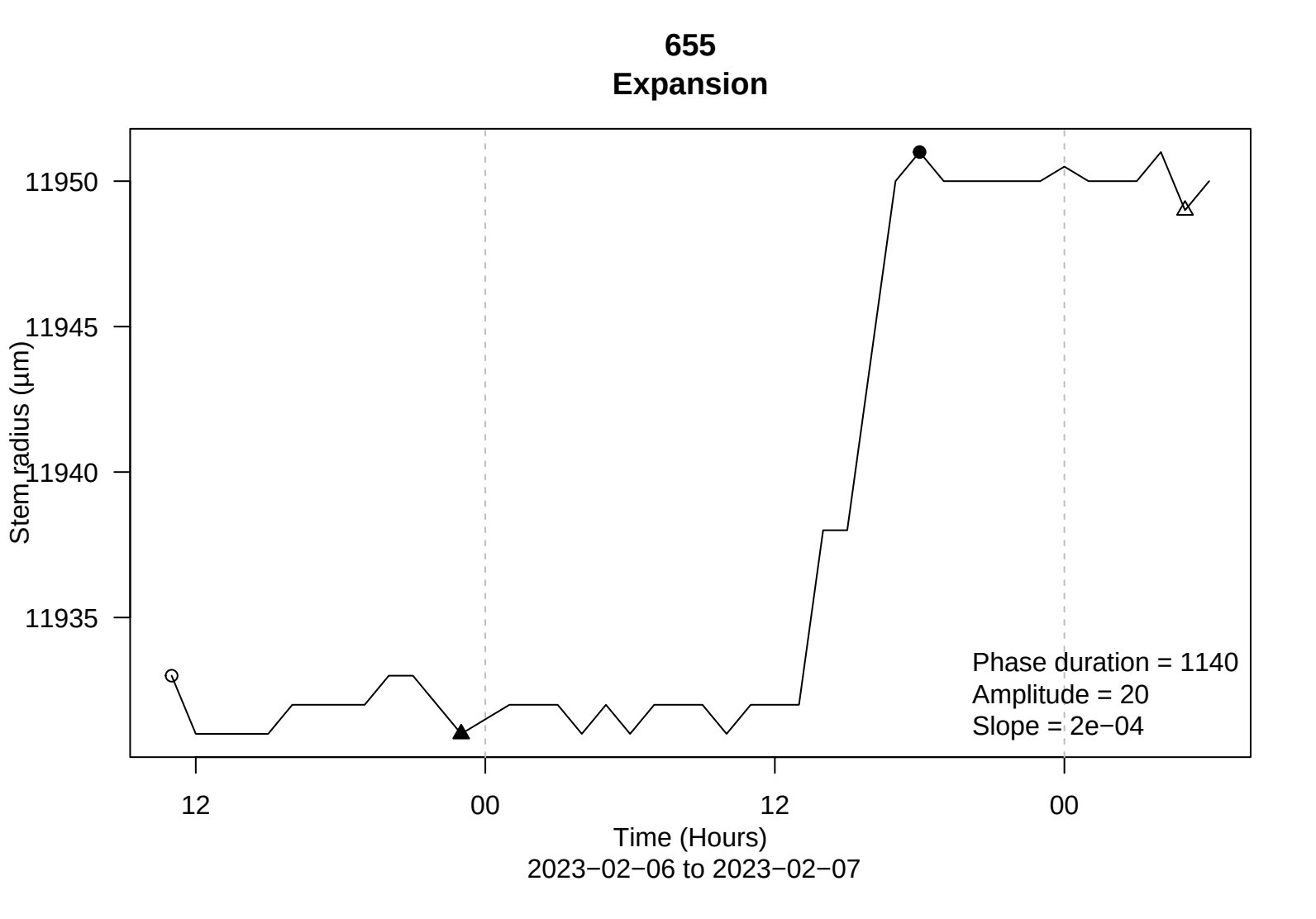

655
Shrinkage
12010
12000
11990
11980
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−02−03 to 2023−02−03

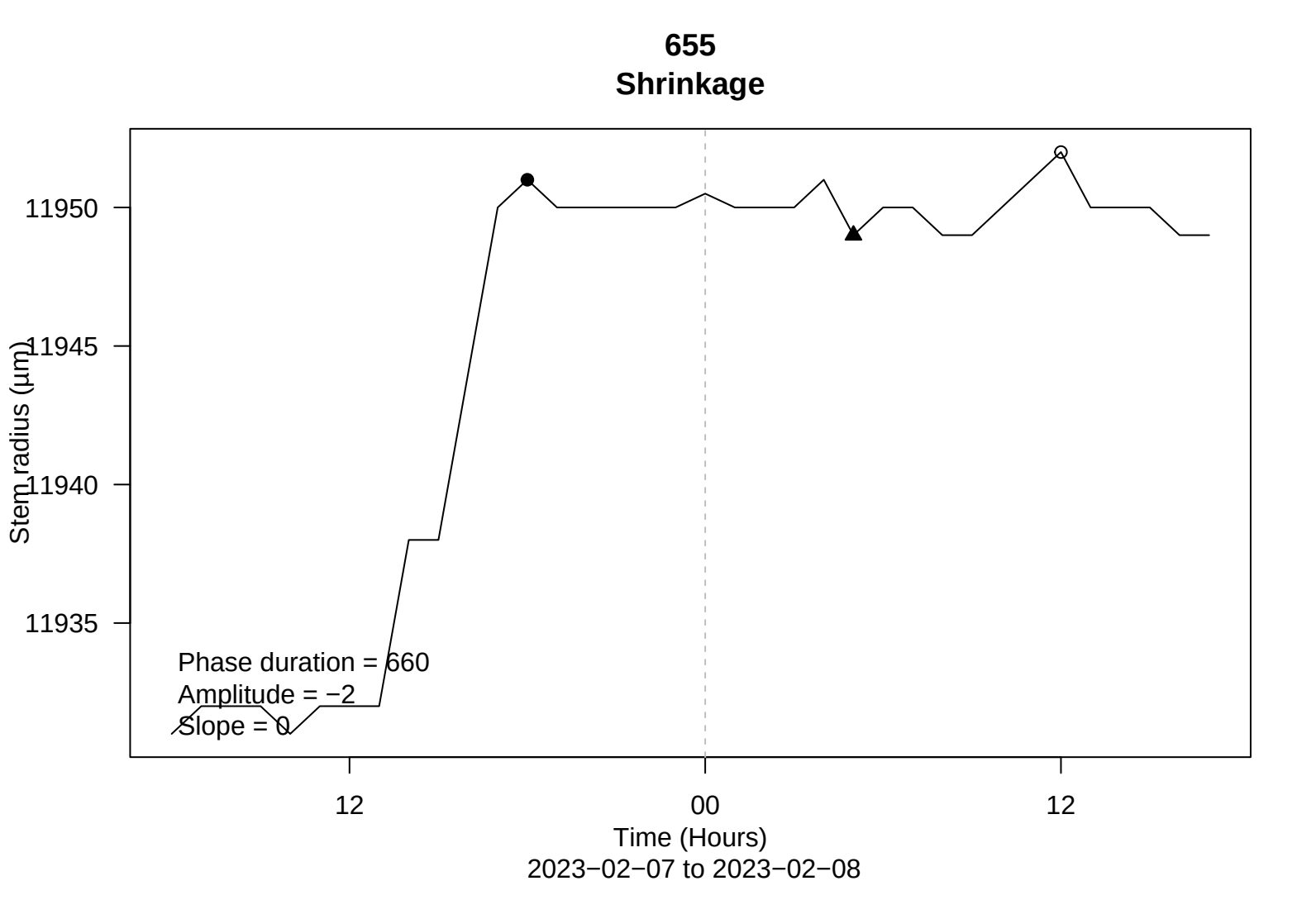

655
Expansion
12010
12000
11990
11980
Stem radius (µm)
Phase duration = 840
Amplitude = 3
Slope = 0
12
00
12
00
Time (Hours)
2023−02−03 to 2023−02−04

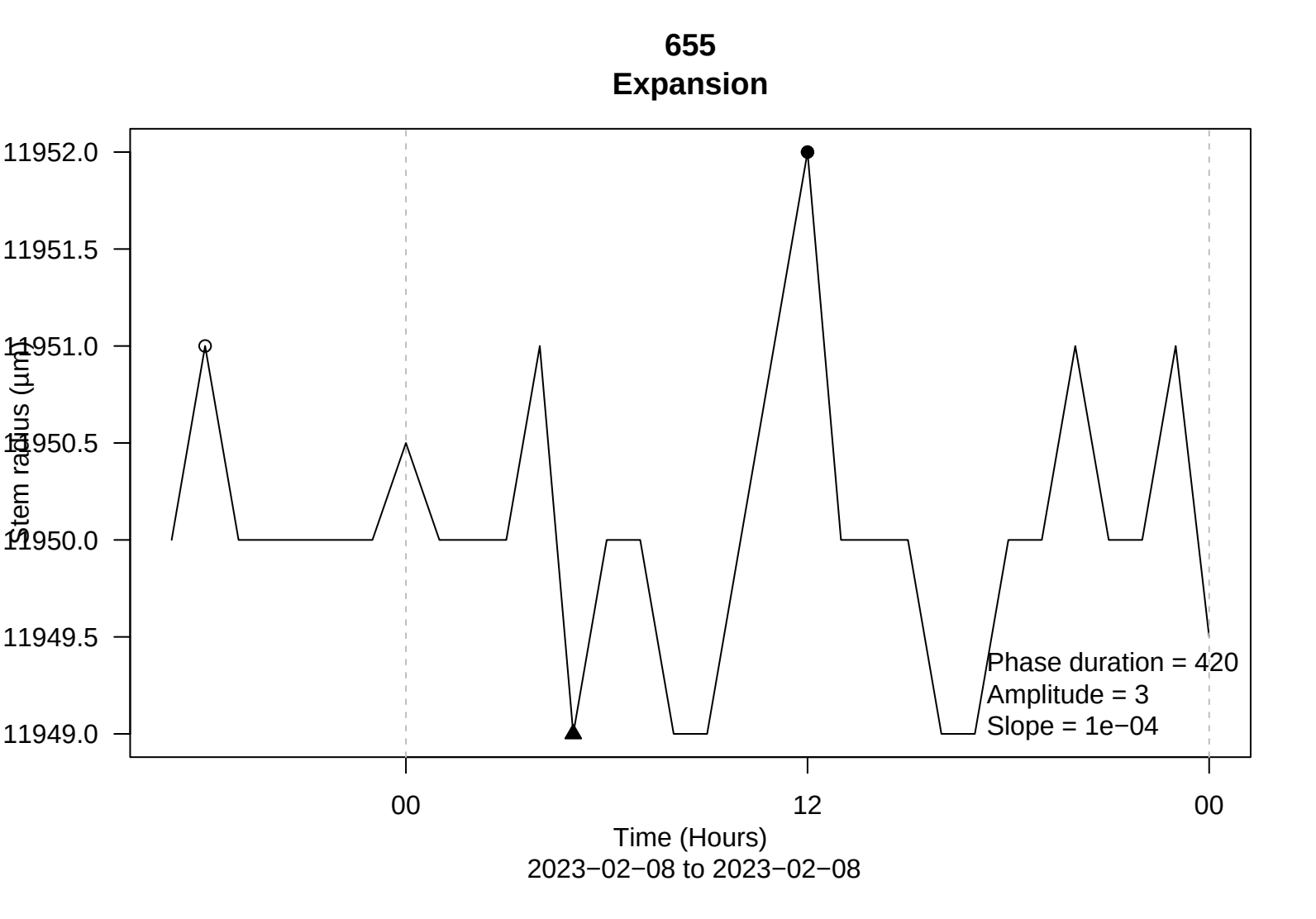

655
Shrinkage
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 1380
Amplitude = −86
Slope = −0.0011
00
12
00
12
Time (Hours)
2023−02−04 to 2023−02−05

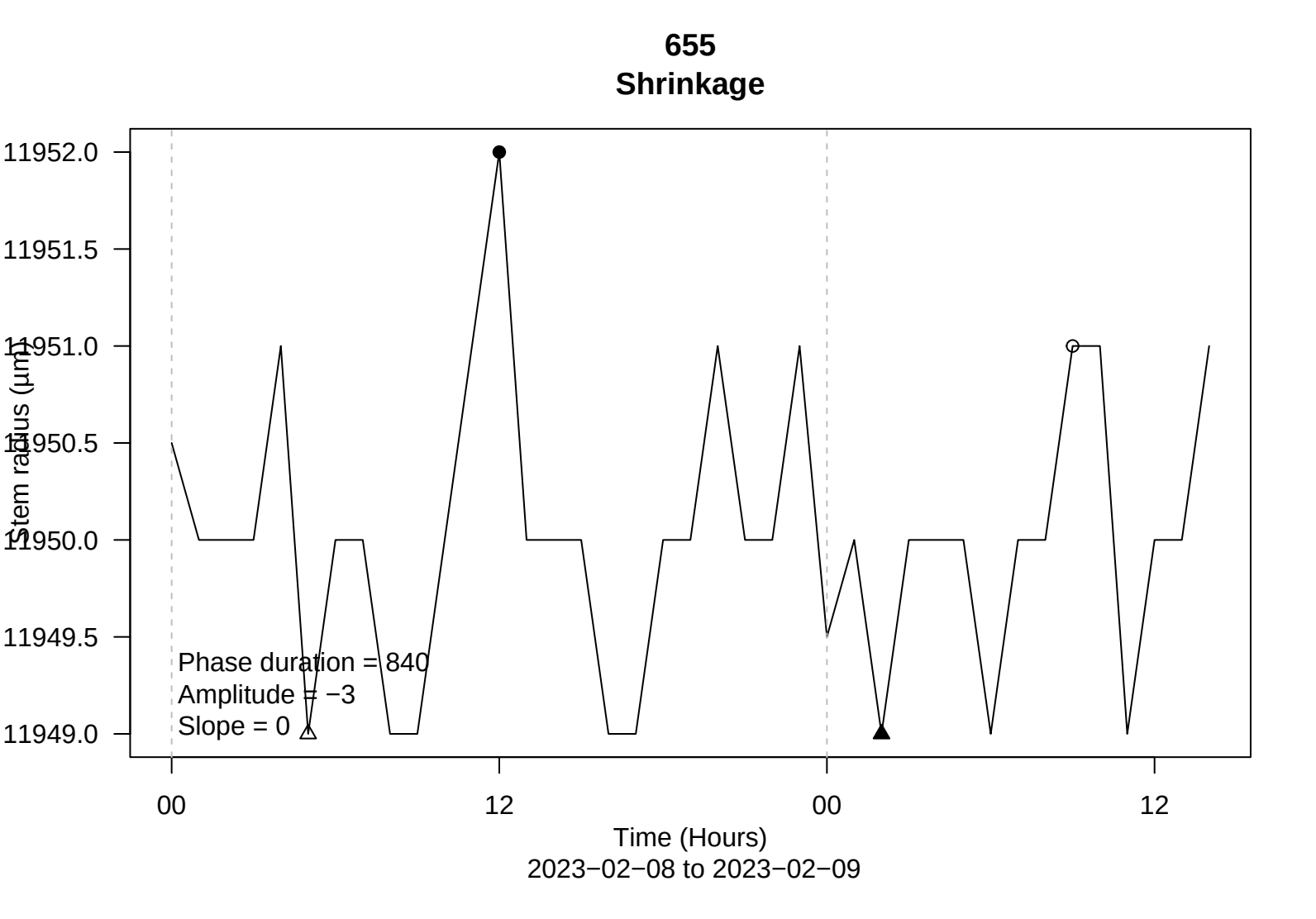

655
Expansion
11970
11960
11950
11940
11930
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−02−05 to 2023−02−05

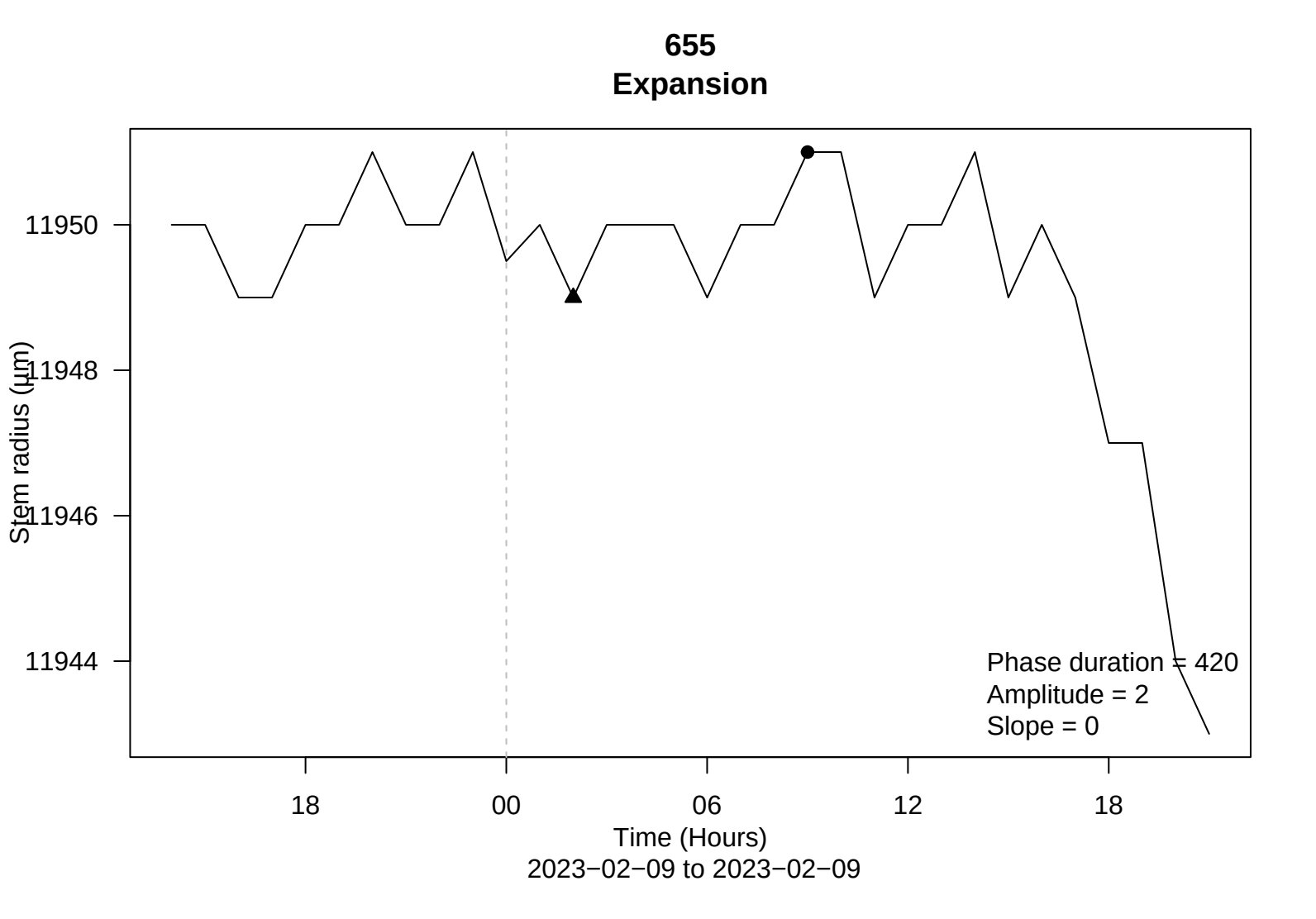

655
Expansion
11937
11936
11935
11934
11933
11932
11931
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−02−05 to 2023−02−06
Phase duration = 900
Amplitude = 2
Slope = 0

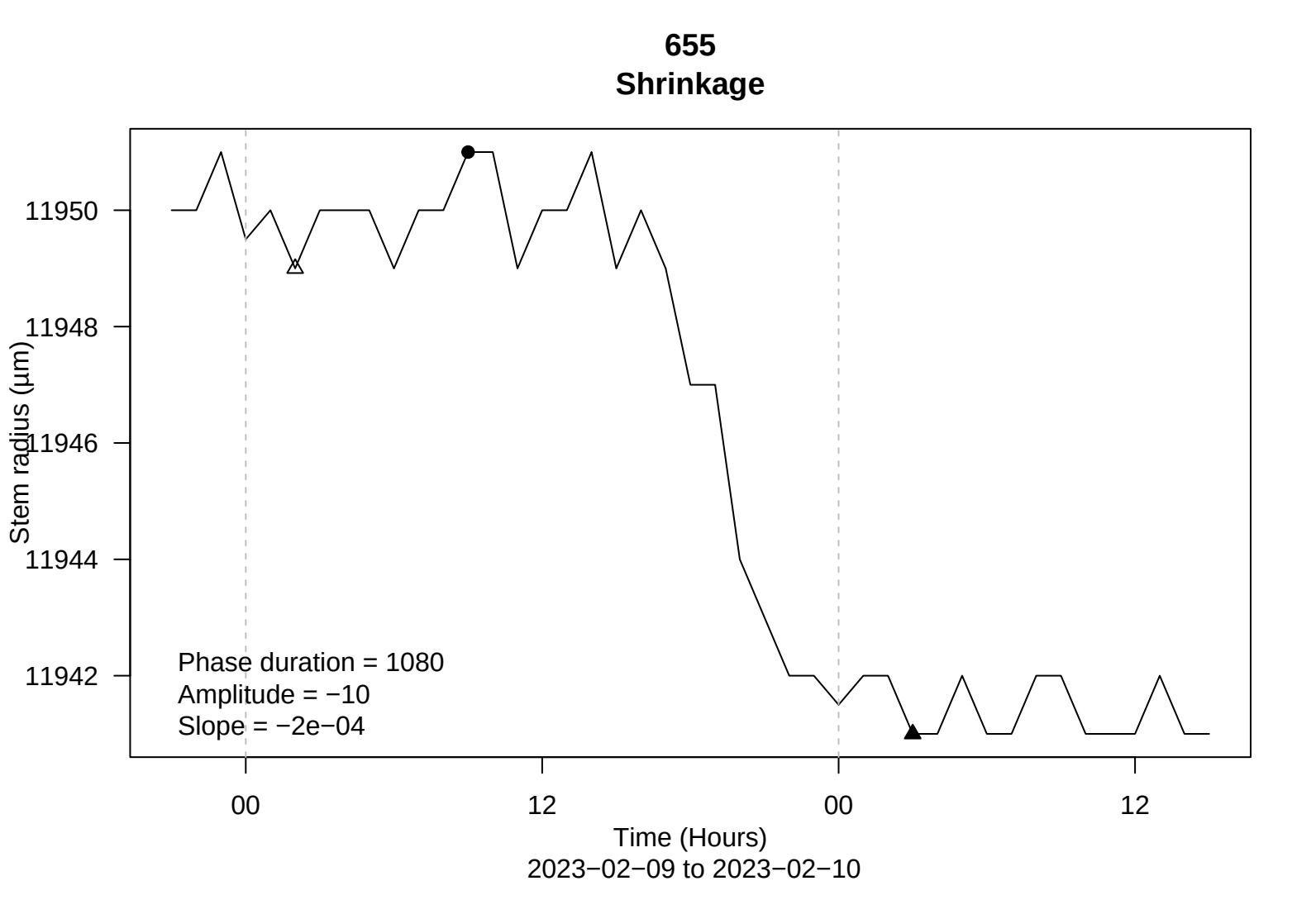

655
Expansion
11950
11945
11940
11935
Stem radius (µm)
Phase duration = 1140
Amplitude = 20
Slope = 2e−04
12
00
12
00
Time (Hours)
2023−02−06 to 2023−02−07

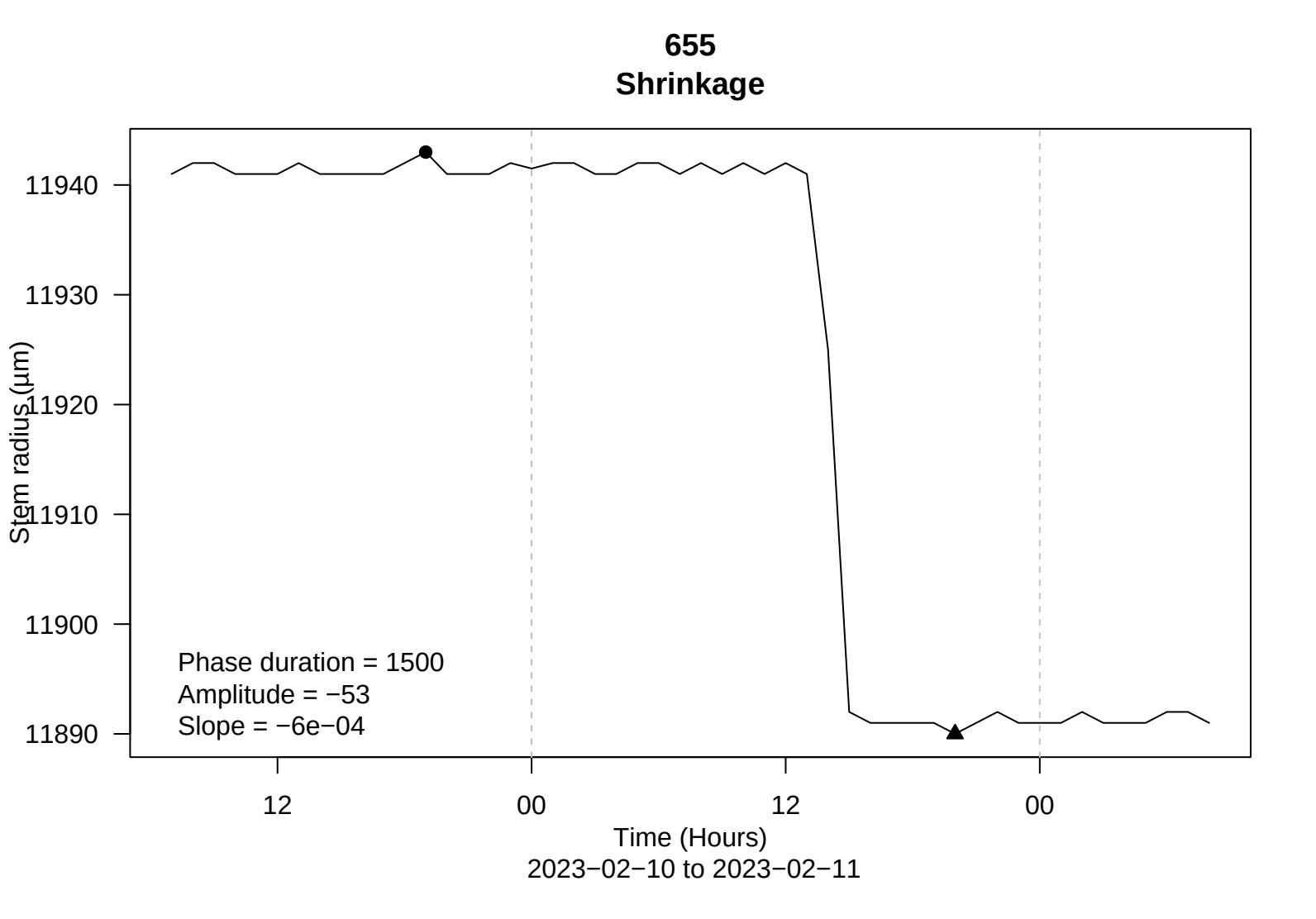

655
Shrinkage
11950
11945
11940
11935
Stem radius (µm)
Phase duration = 660
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−02−07 to 2023−02−08

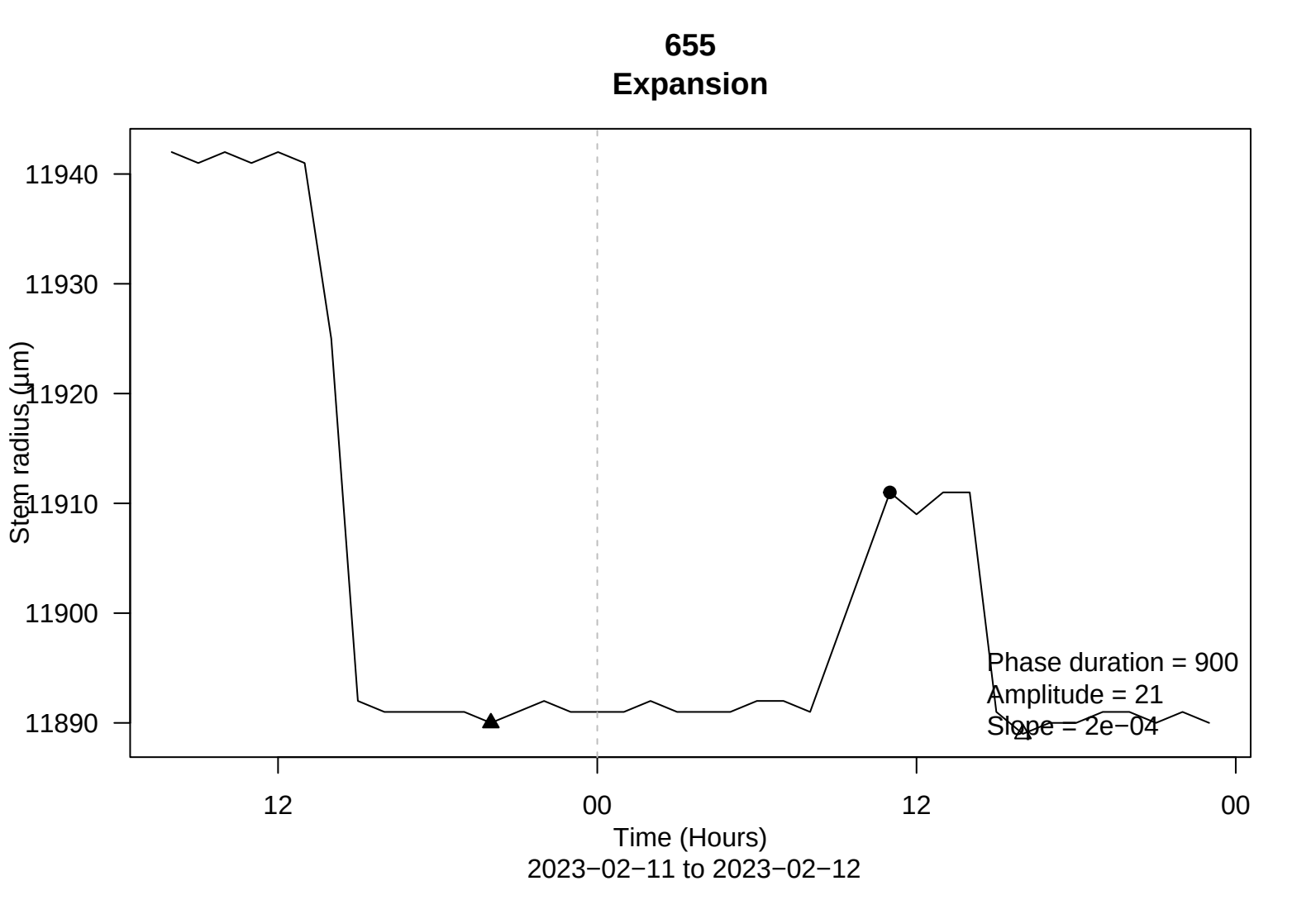

655
Expansion
11952.0
11951.5
11951.0
11950.5
11950.0
11949.5
11949.0
Stem radius (µm)
Phase duration = 420
Amplitude = 3
Slope = 1e−04
00
12
00
Time (Hours)
2023−02−08 to 2023−02−08

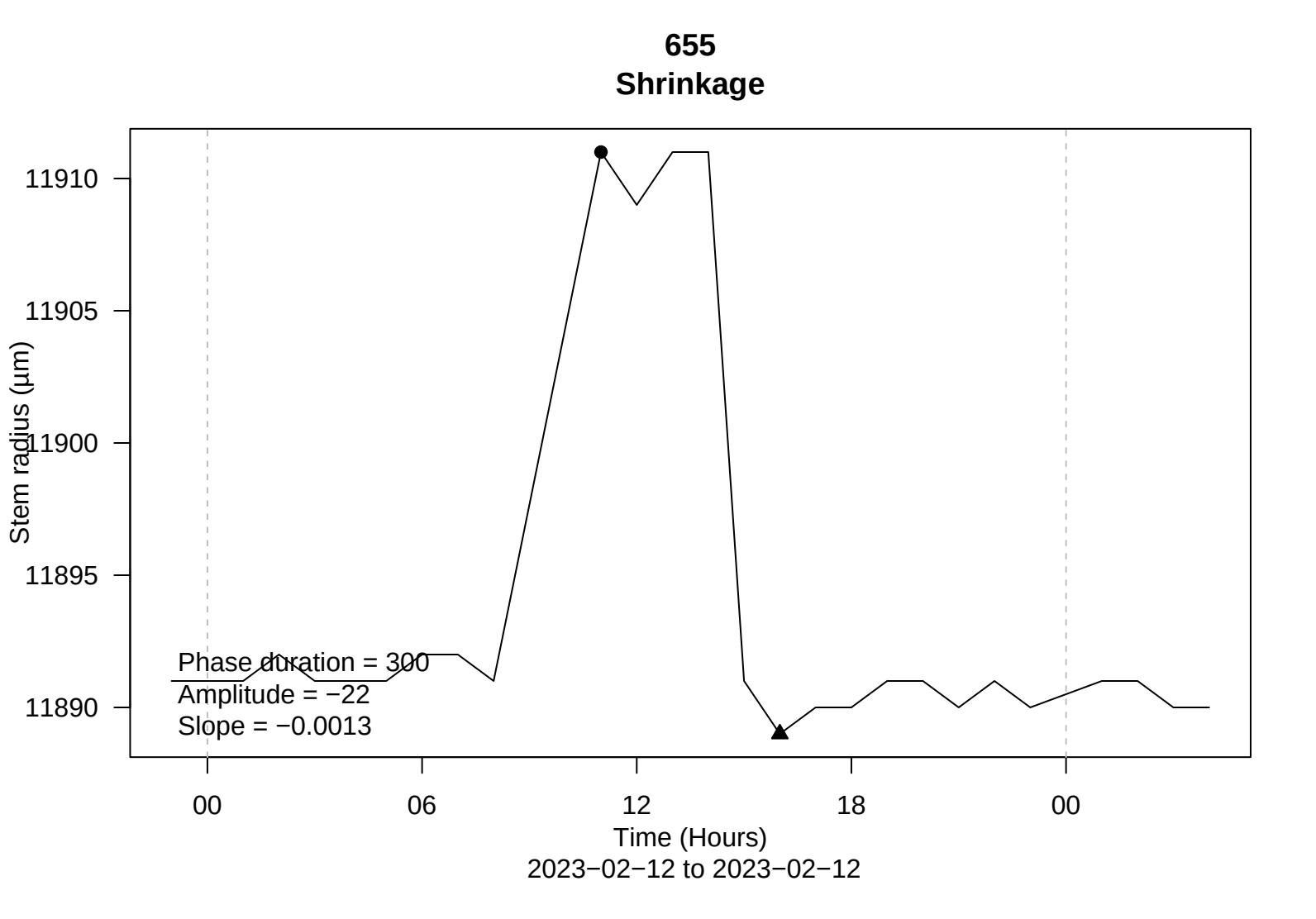

655
Shrinkage
11952.0
11951.5
11951.0
11950.5
11950.0
11949.5
11949.0
Stem radius (µm)
Phase duration = 840
Amplitude = −3
Slope = 0
00
12
00
12
Time (Hours)
2023−02−08 to 2023−02−09

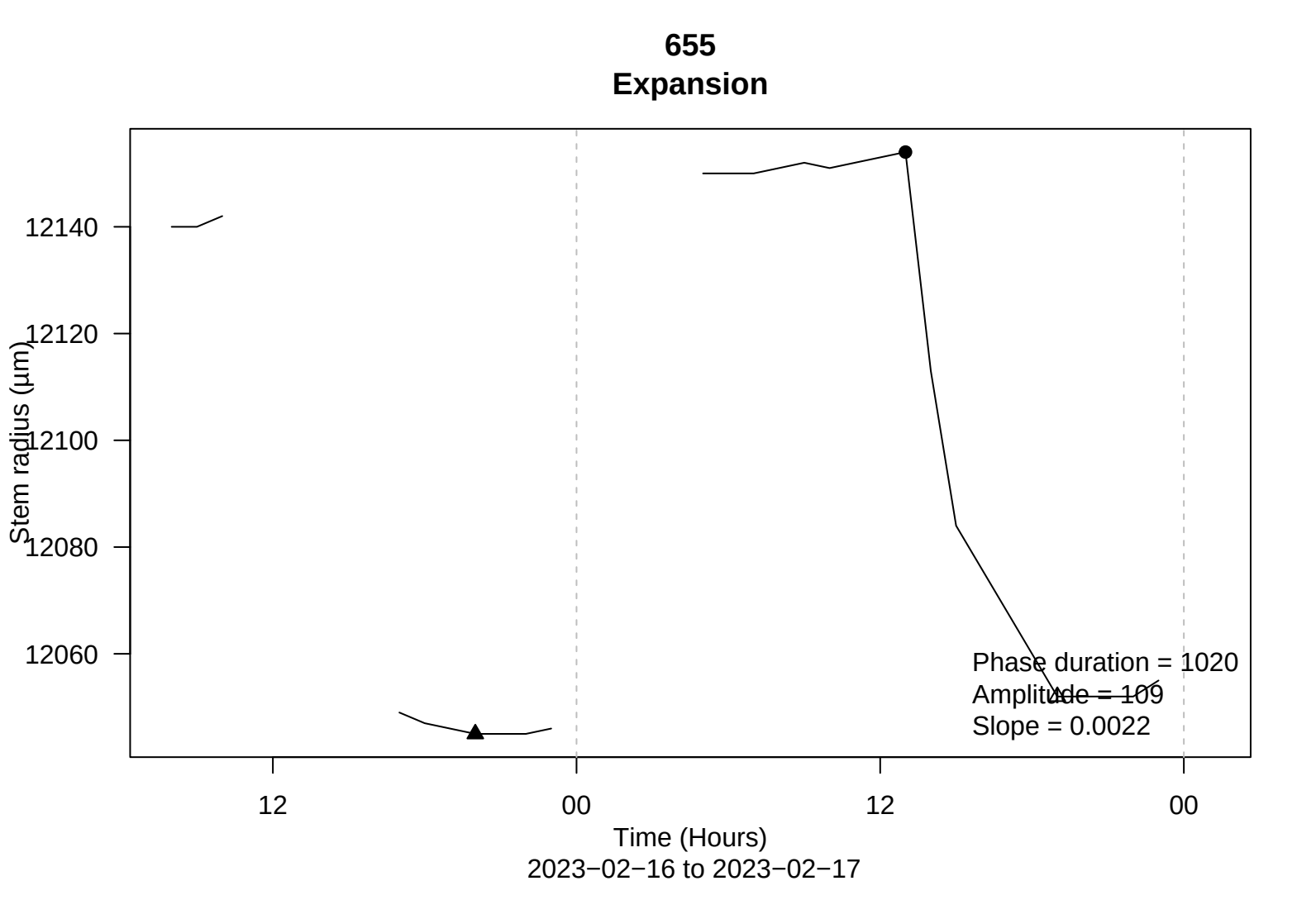

655
Expansion
11950
11948
11946
11944
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
18
00
06
12
18
Time (Hours)
2023−02−09 to 2023−02−09

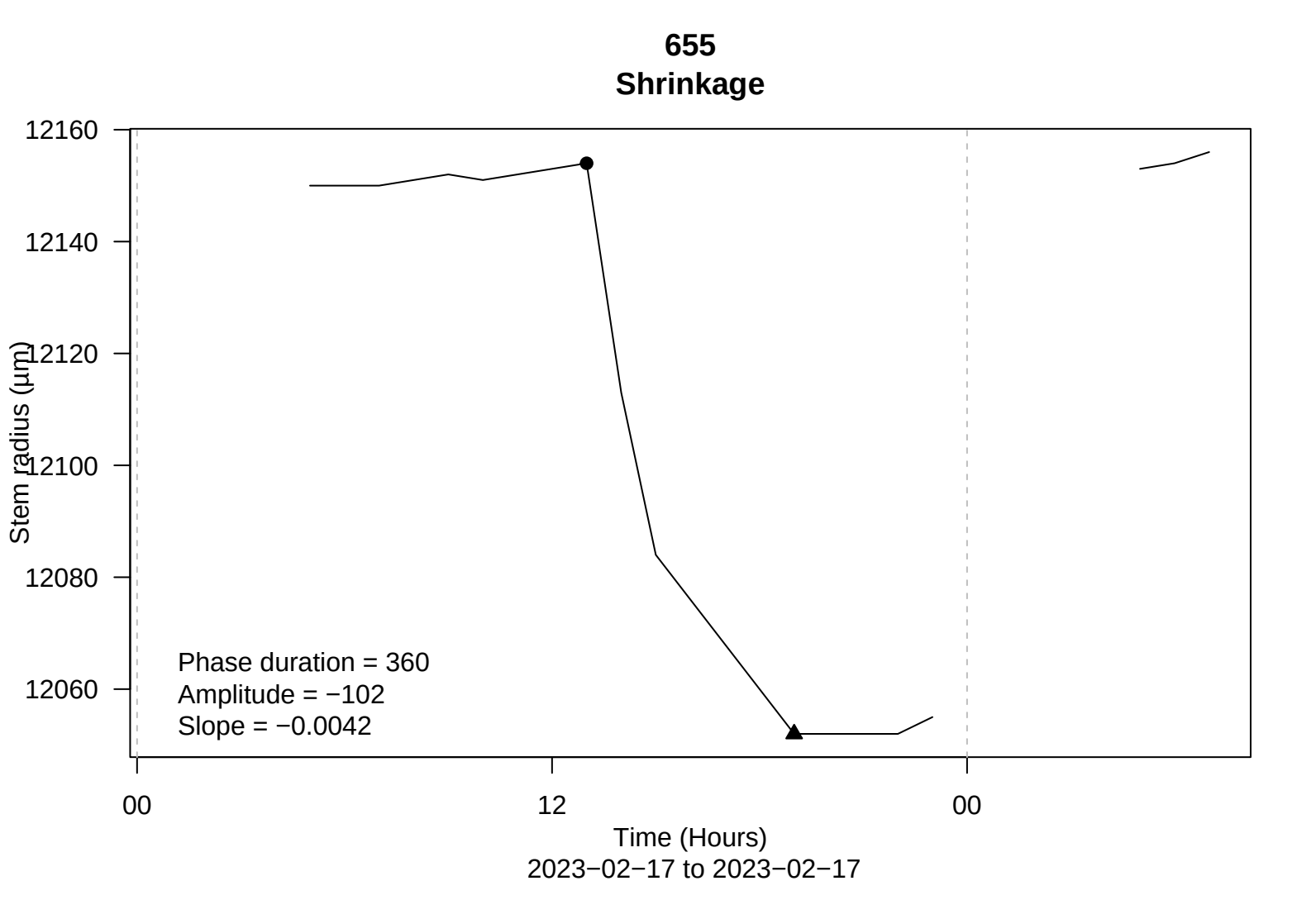

655
Shrinkage
11950
11948
11946
11944
11942
Stem radius (µm)
Phase duration = 1080
Amplitude = −10
Slope = −2e−04
00
12
00
12
Time (Hours)
2023−02−09 to 2023−02−10

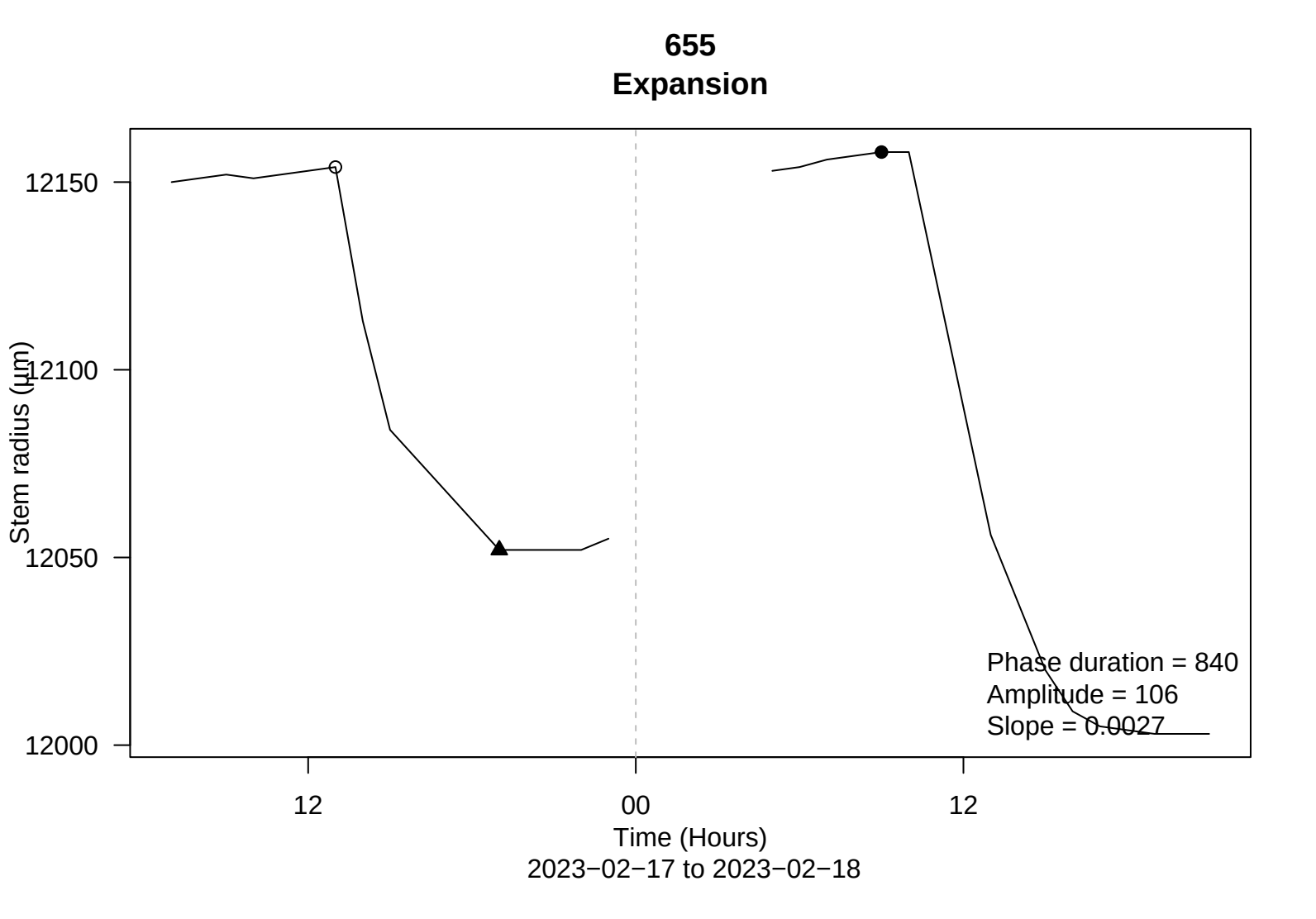

655
Shrinkage
11940
11930
11920
11910
11900
11890
Stem radius (µm)
Phase duration = 1500
Amplitude = −53
Slope = −6e−04
12
00
12
00
Time (Hours)
2023−02−10 to 2023−02−11

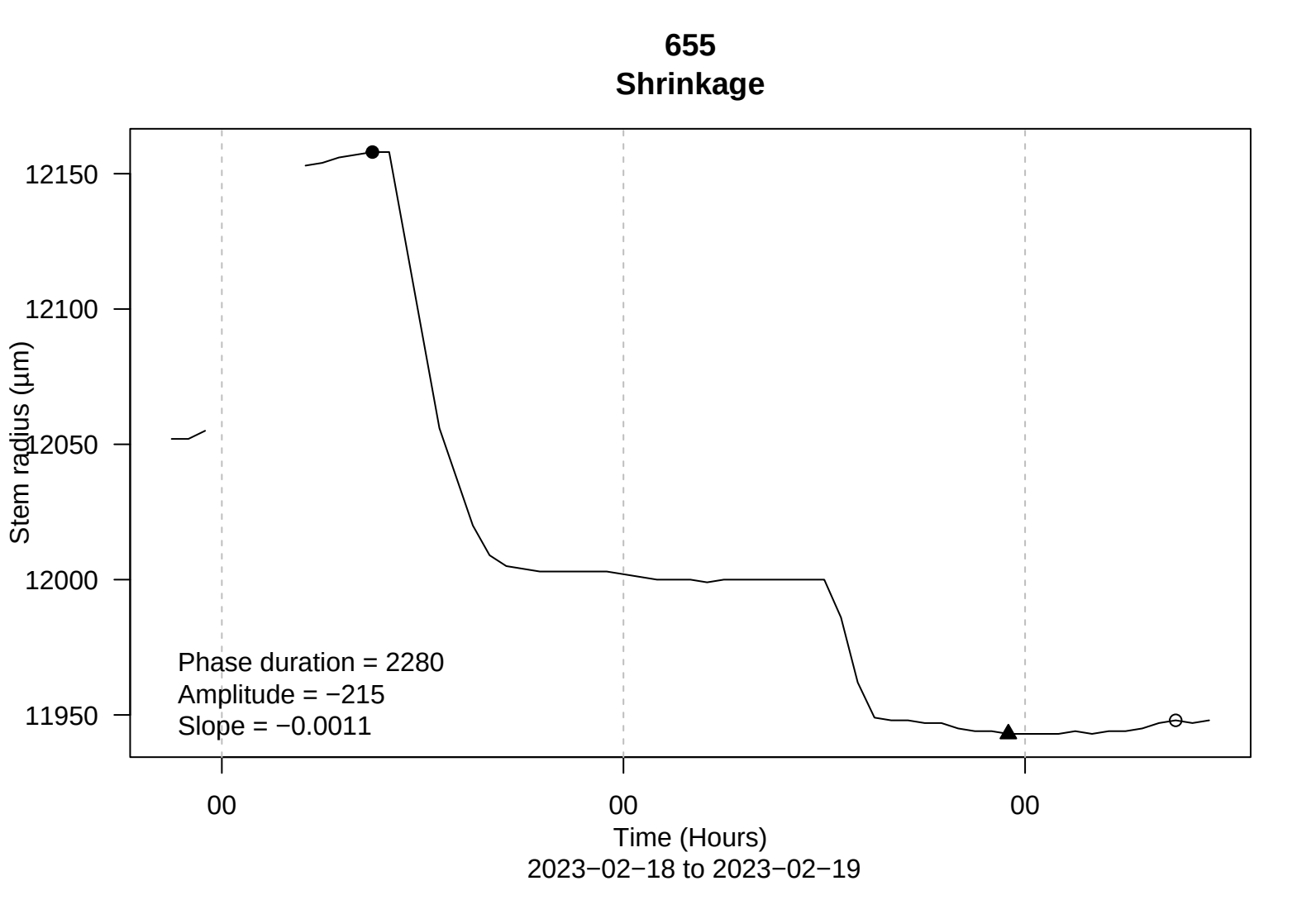

655
Expansion
11940
11930
11920
11910
11900
11890
Stem radius (µm)
Phase duration = 900
Amplitude = 21
Slope = 2e−04
12
00
12
00
Time (Hours)
2023−02−11 to 2023−02−12

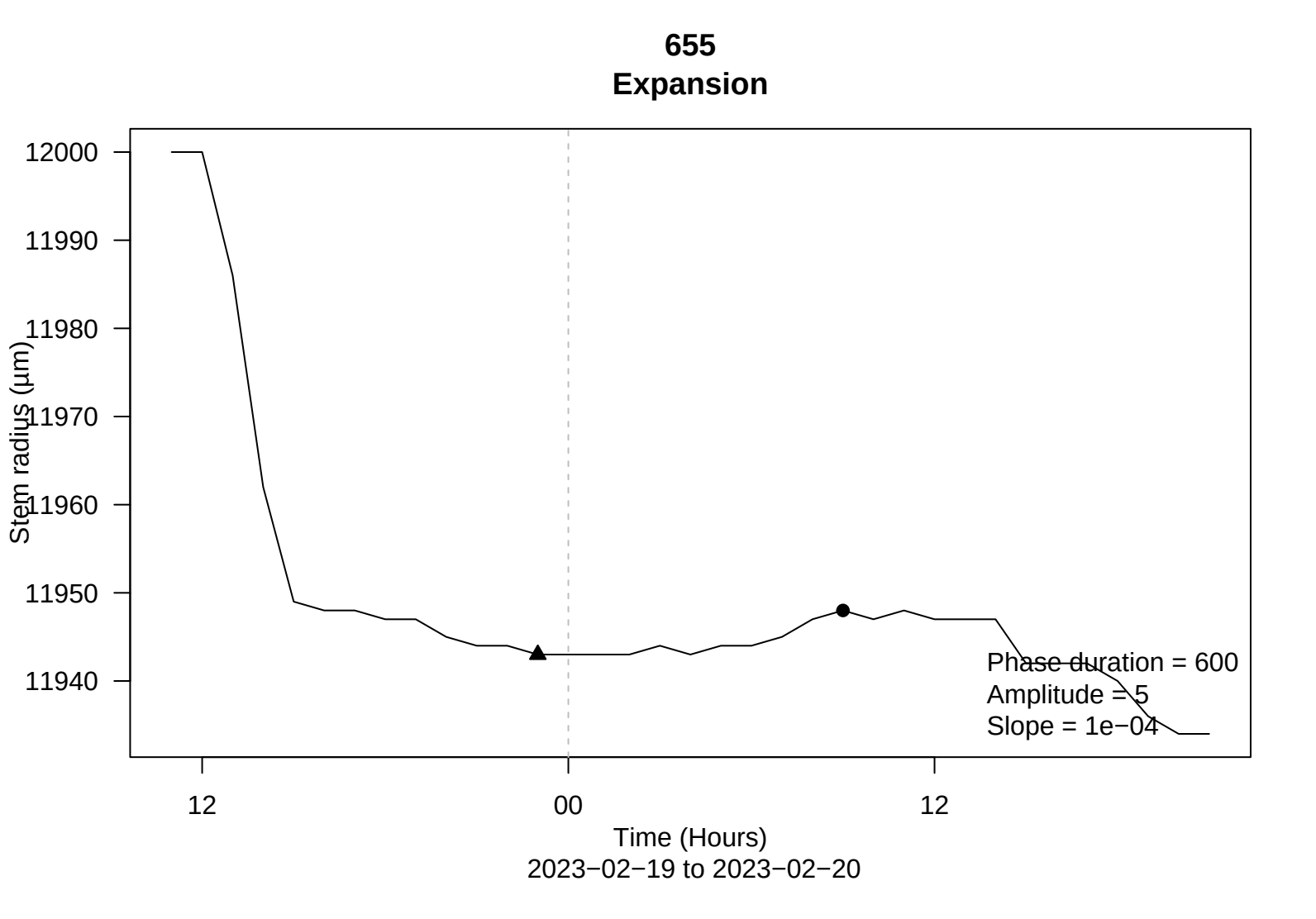

655
Shrinkage
11910
11905
11900
11895
11890
Stem radius (µm)
Phase duration = 300
Amplitude = −22
Slope = −0.0013
00
06
12
18
00
Time (Hours)
2023−02−12 to 2023−02−12

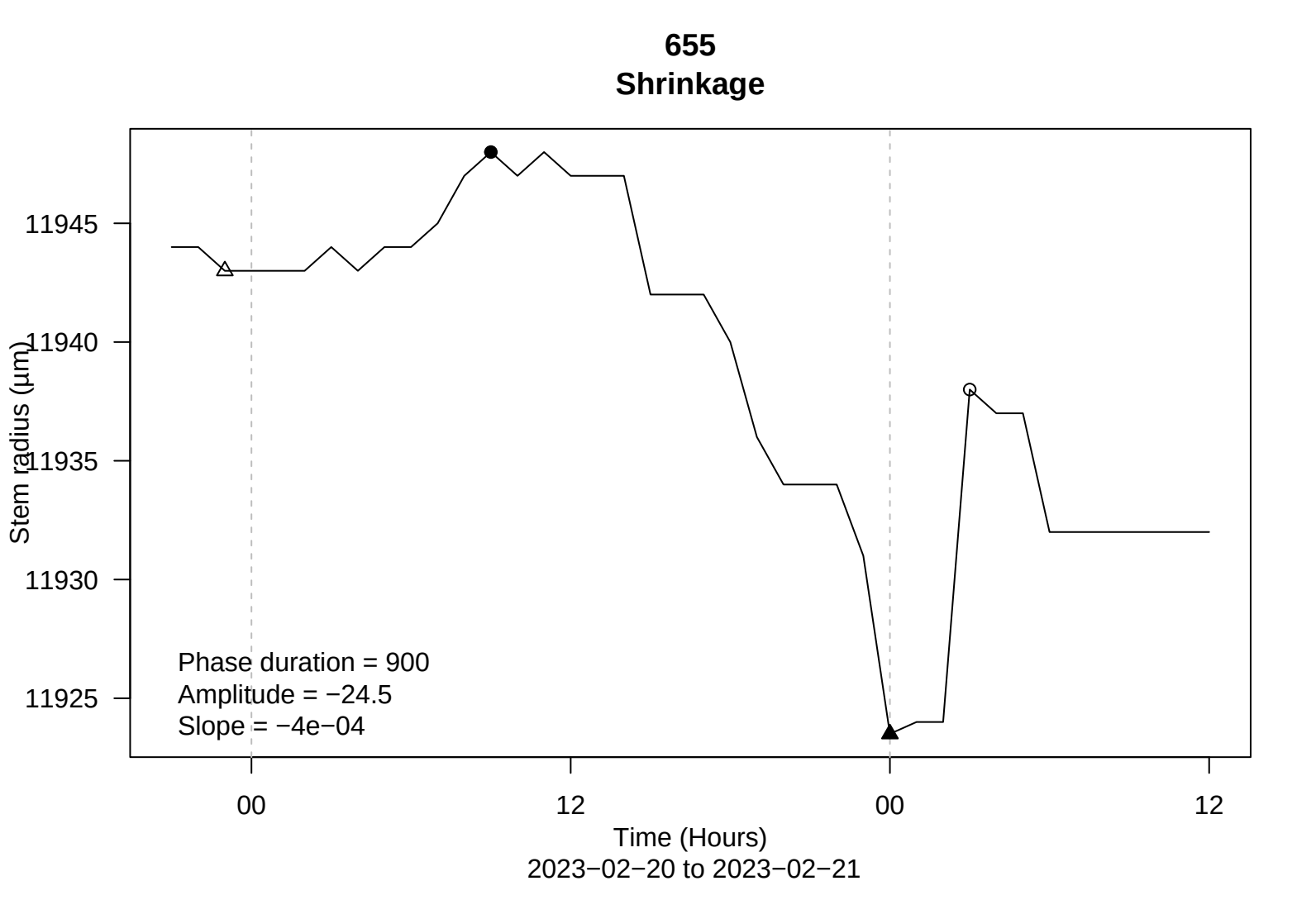

655
Expansion
12140
12120
12100
12080
12060
Stem radius (µm)
Phase duration = 1020
Amplitude = 109
Slope = 0.0022
12
00
12
00
Time (Hours)
2023−02−16 to 2023−02−17

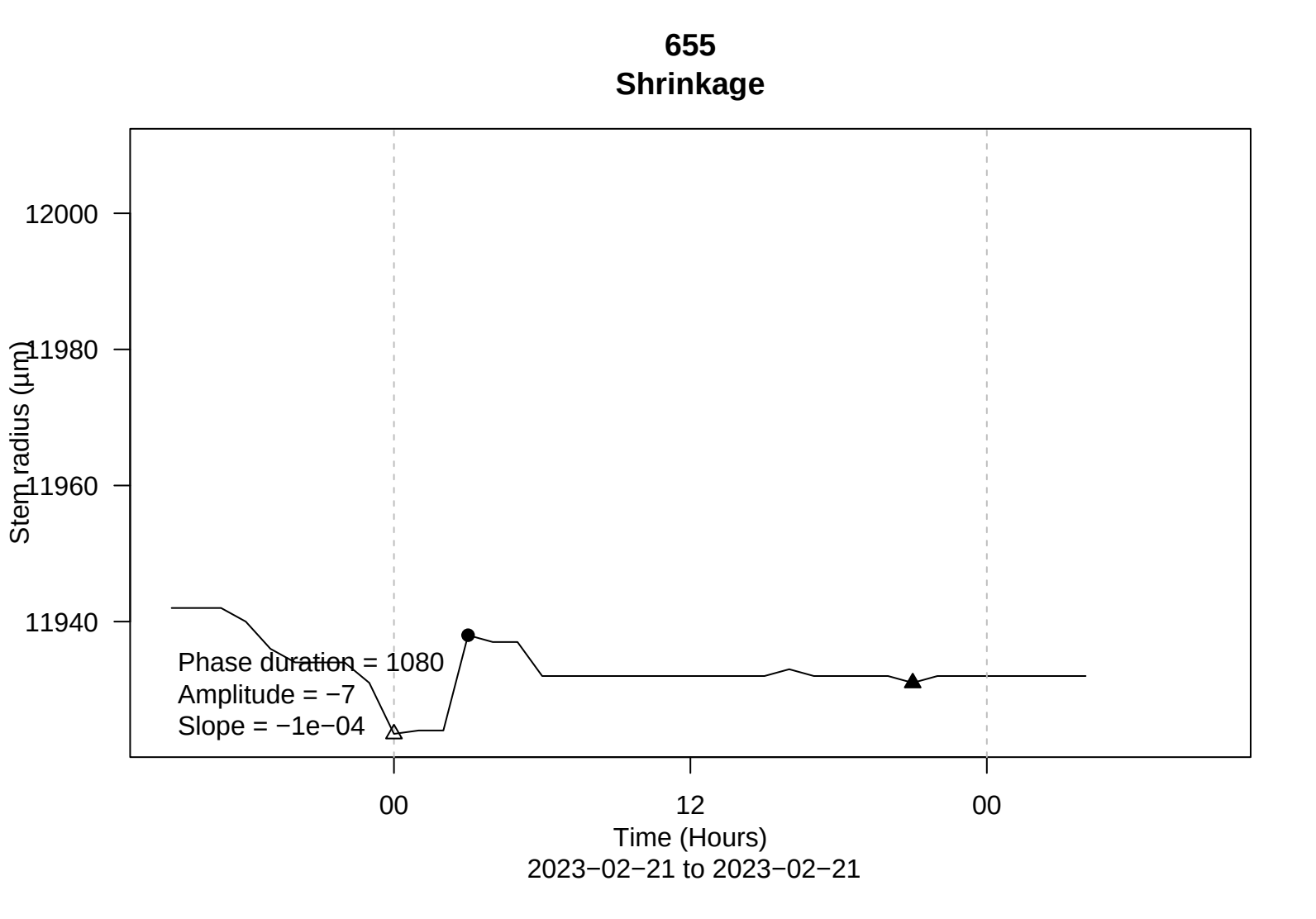

655
Shrinkage
12160
12140
12120
12100
12080
12060
Stem radius (µm)
Phase duration = 360
Amplitude = −102
Slope = −0.0042
00
12
00
Time (Hours)
2023−02−17 to 2023−02−17

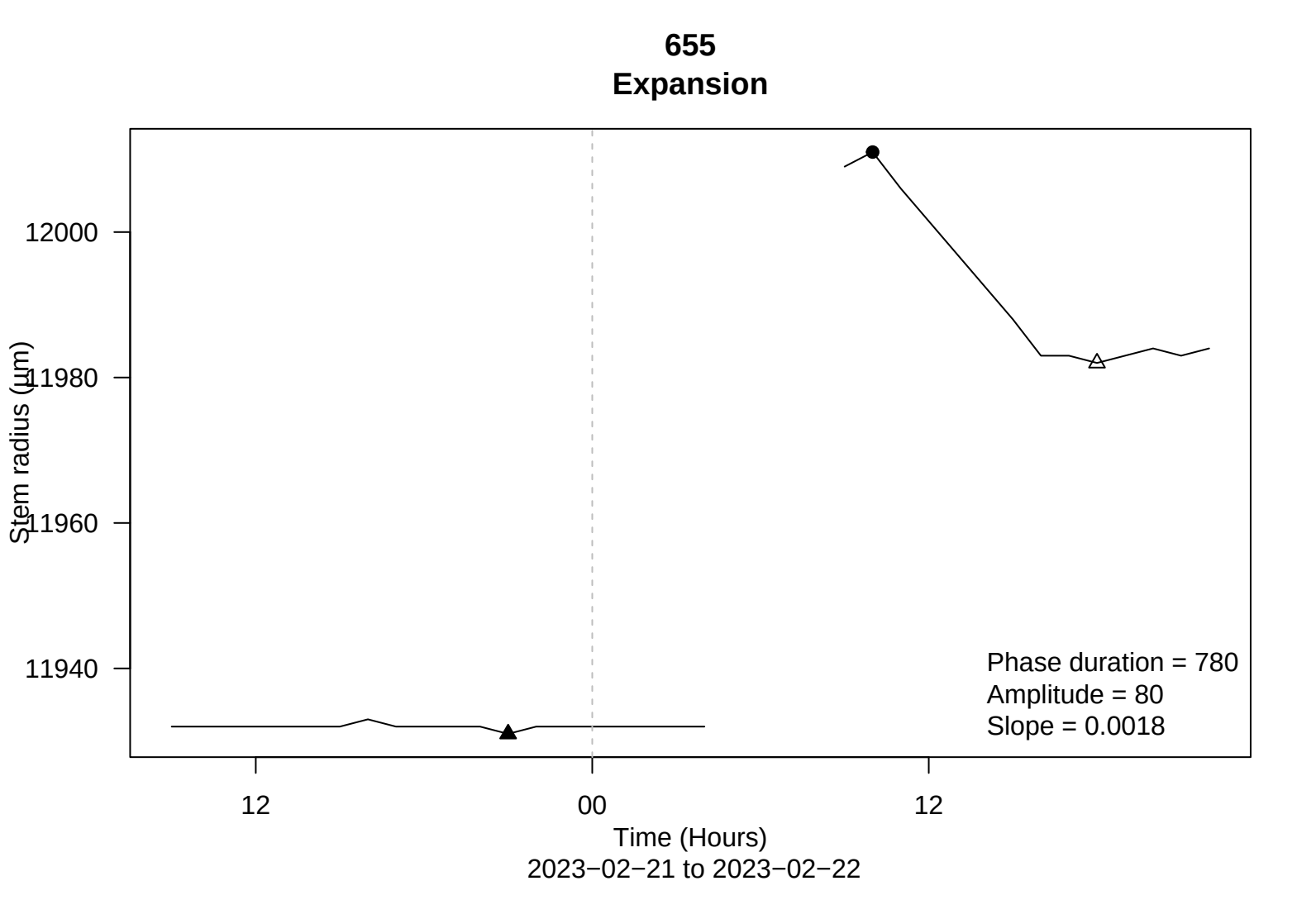

655
Expansion
12150
12100
12050
12000
Stem radius (µm)
12
00
12
Time (Hours)
2023−02−17 to 2023−02−18
Phase duration = 840
Amplitude = 106
Slope = 0.0027

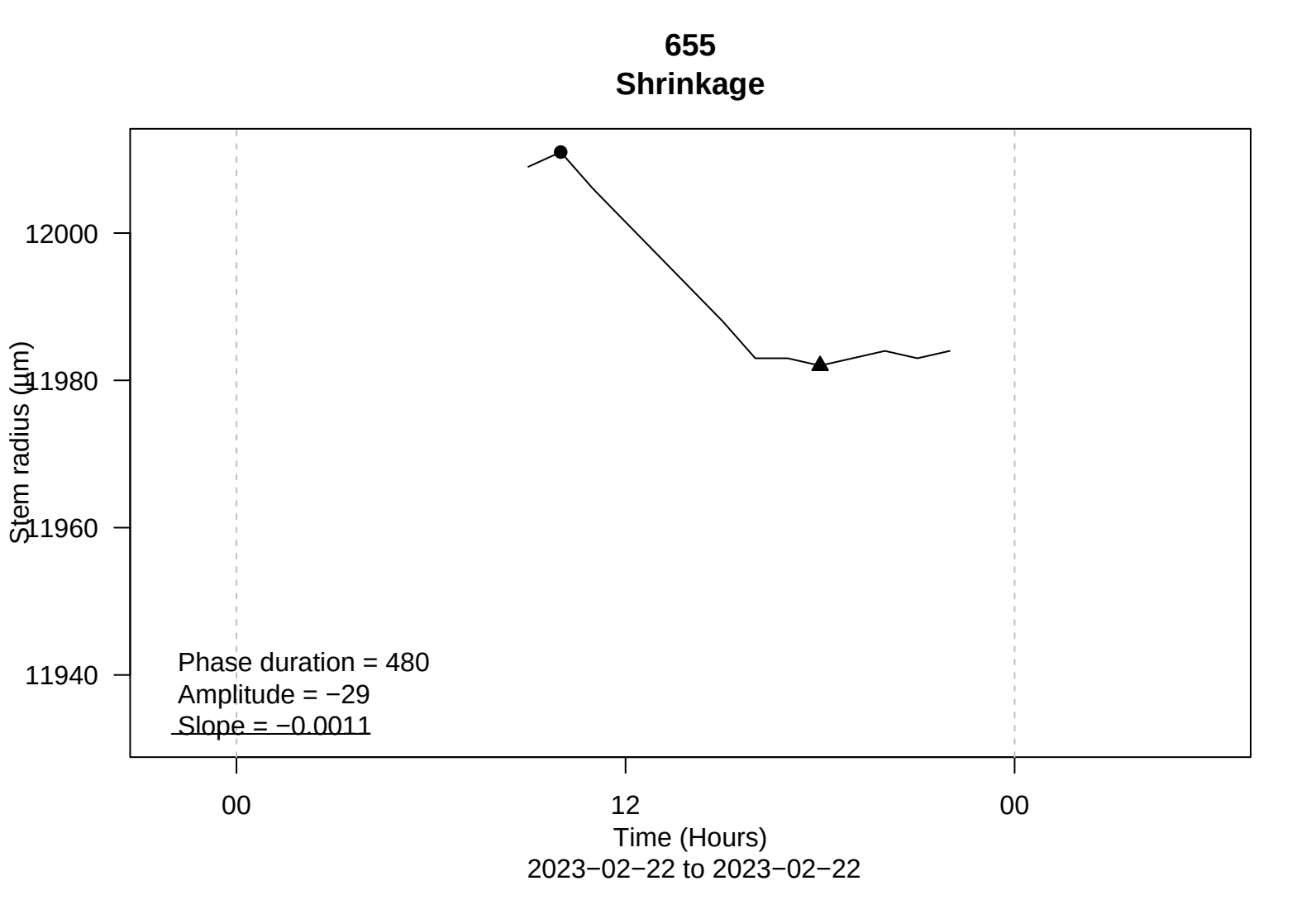

655
Shrinkage
12150
12100
12050
12000
11950
Stem radius (µm)
Phase duration = 2280
Amplitude = −215
Slope = −0.0011
00
00
00
Time (Hours)
2023−02−18 to 2023−02−19

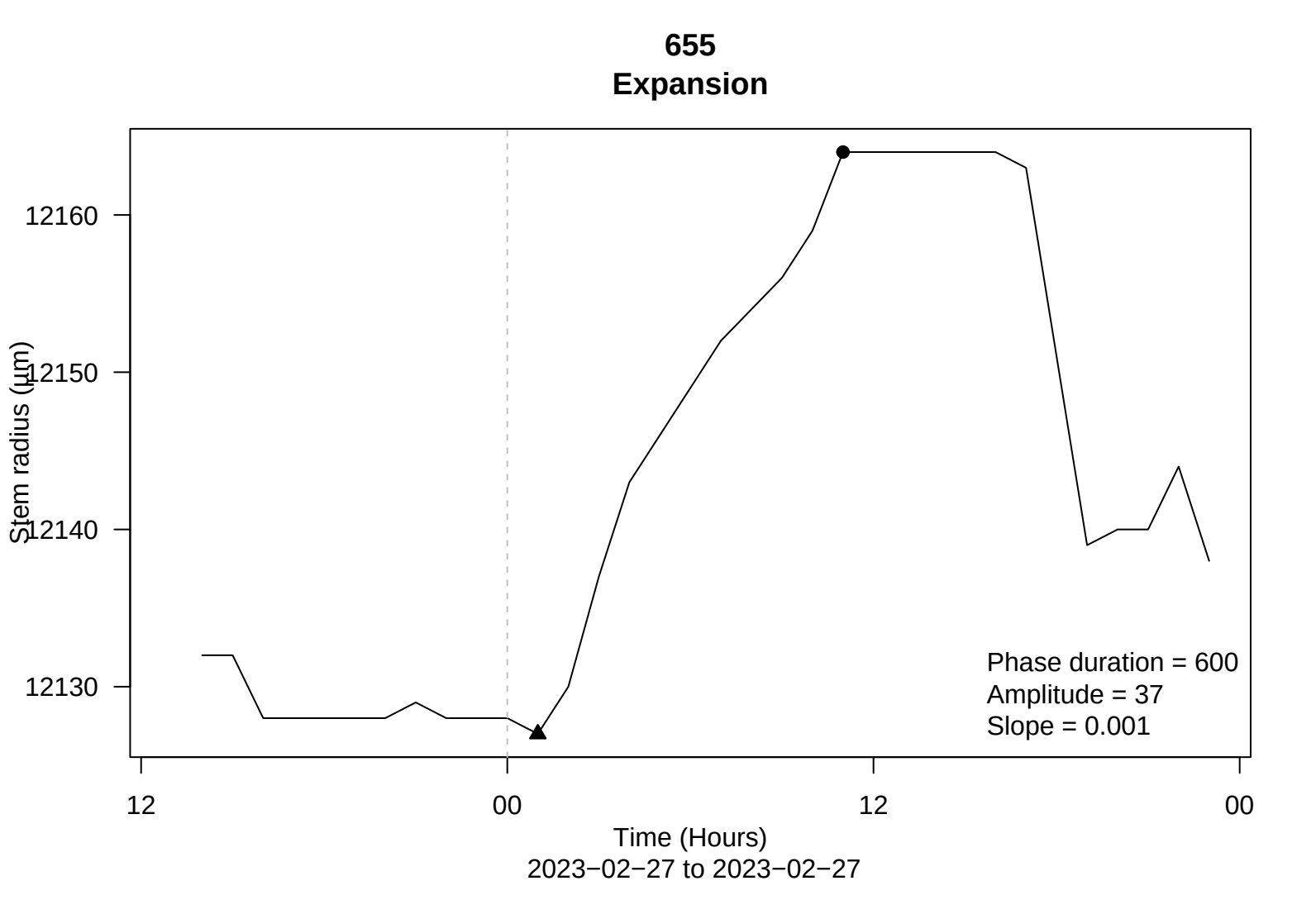

655
Expansion
12000
11990
11980
11970
11960
11950
11940
Stem radius (µm)
Phase duration = 600
Amplitude = 5
Slope = 1e−04
12
00
12
Time (Hours)
2023−02−19 to 2023−02−20

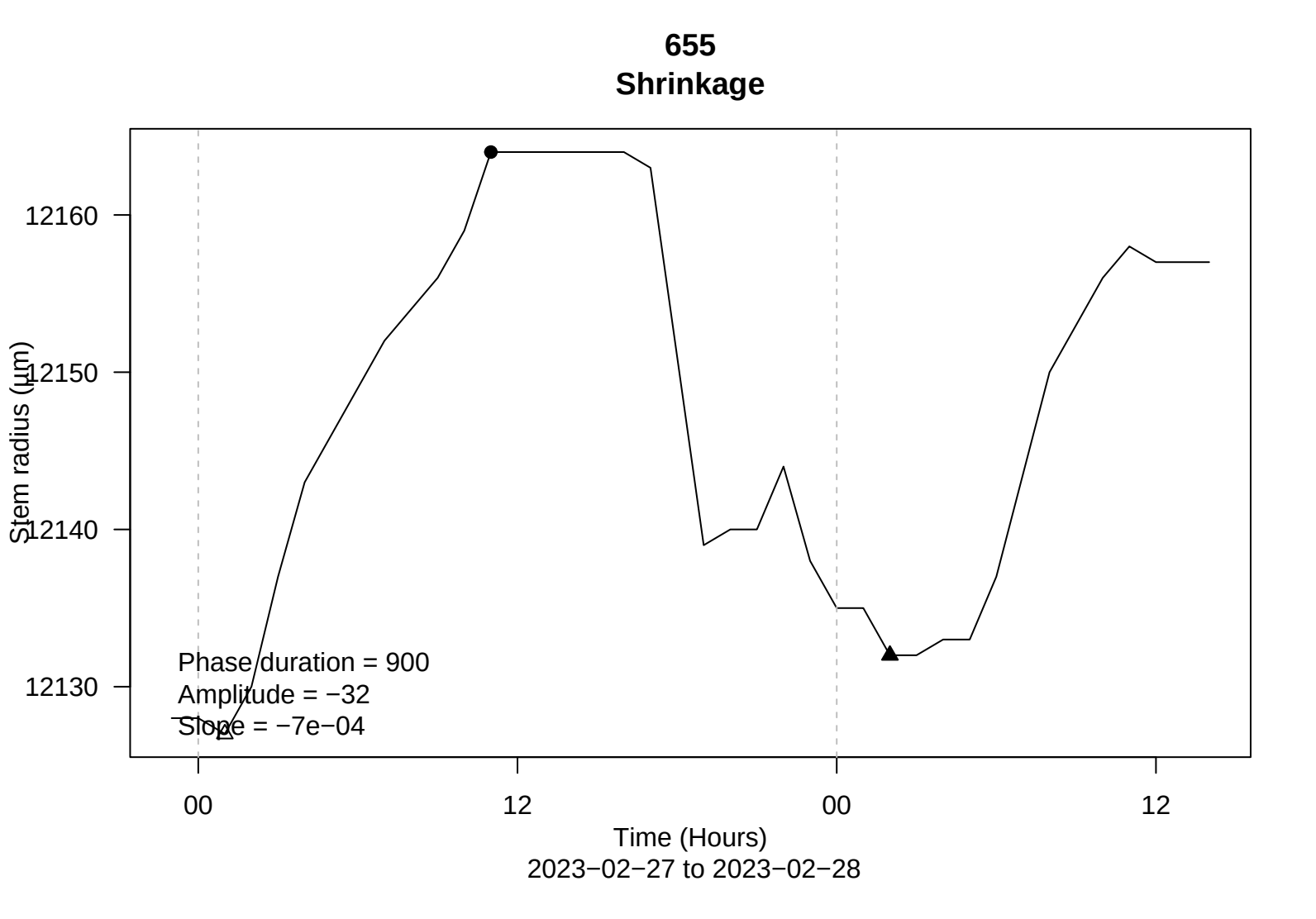

655
Shrinkage
11945
11940
11935
11930
11925
Stem radius (µm)
Phase duration = 900
Amplitude = −24.5
Slope = −4e−04
00
12
00
12
Time (Hours)
2023−02−20 to 2023−02−21

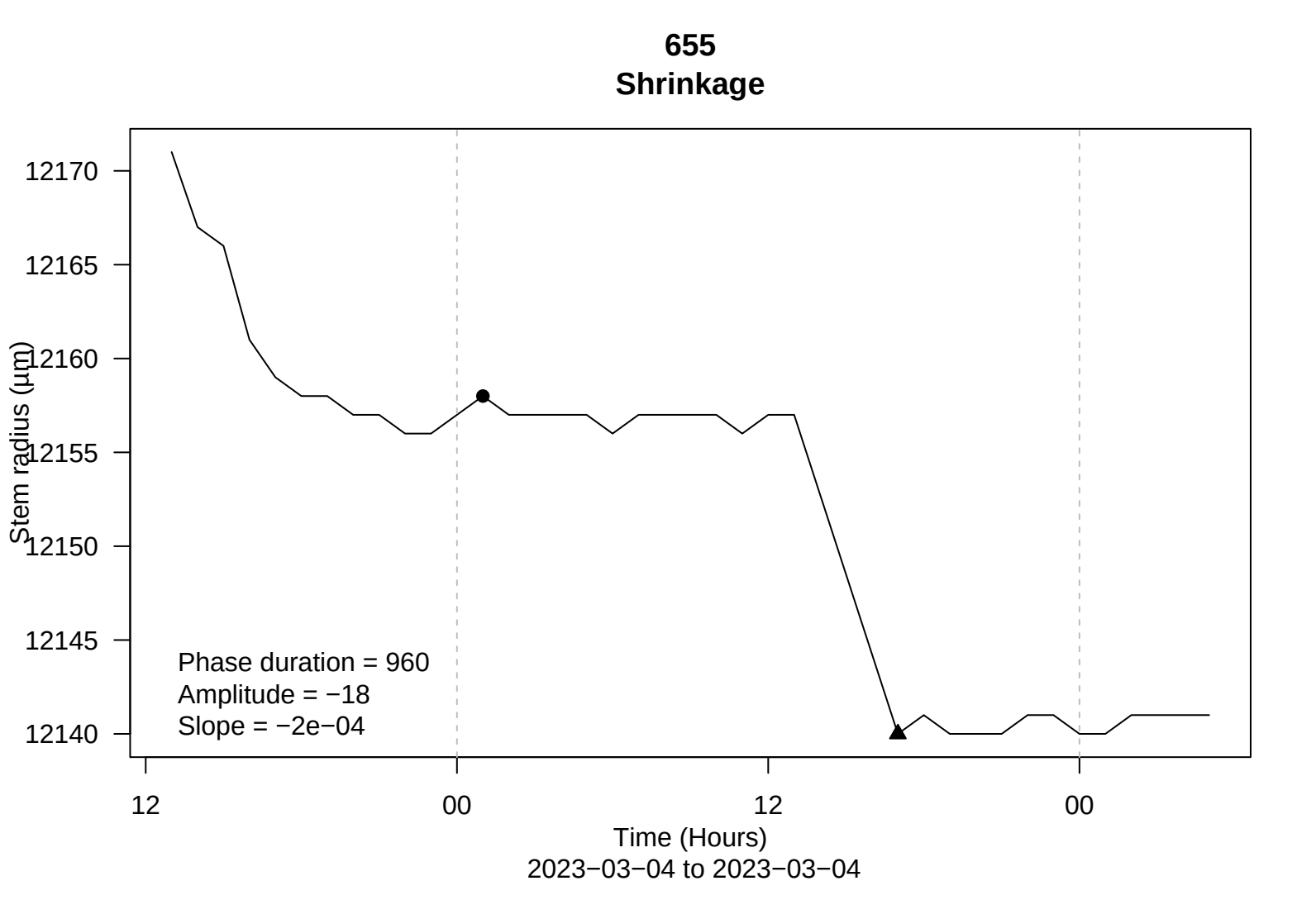

655
Shrinkage
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 1080
Amplitude = −7
Slope = −1e−04
00
12
00
Time (Hours)
2023−02−21 to 2023−02−21

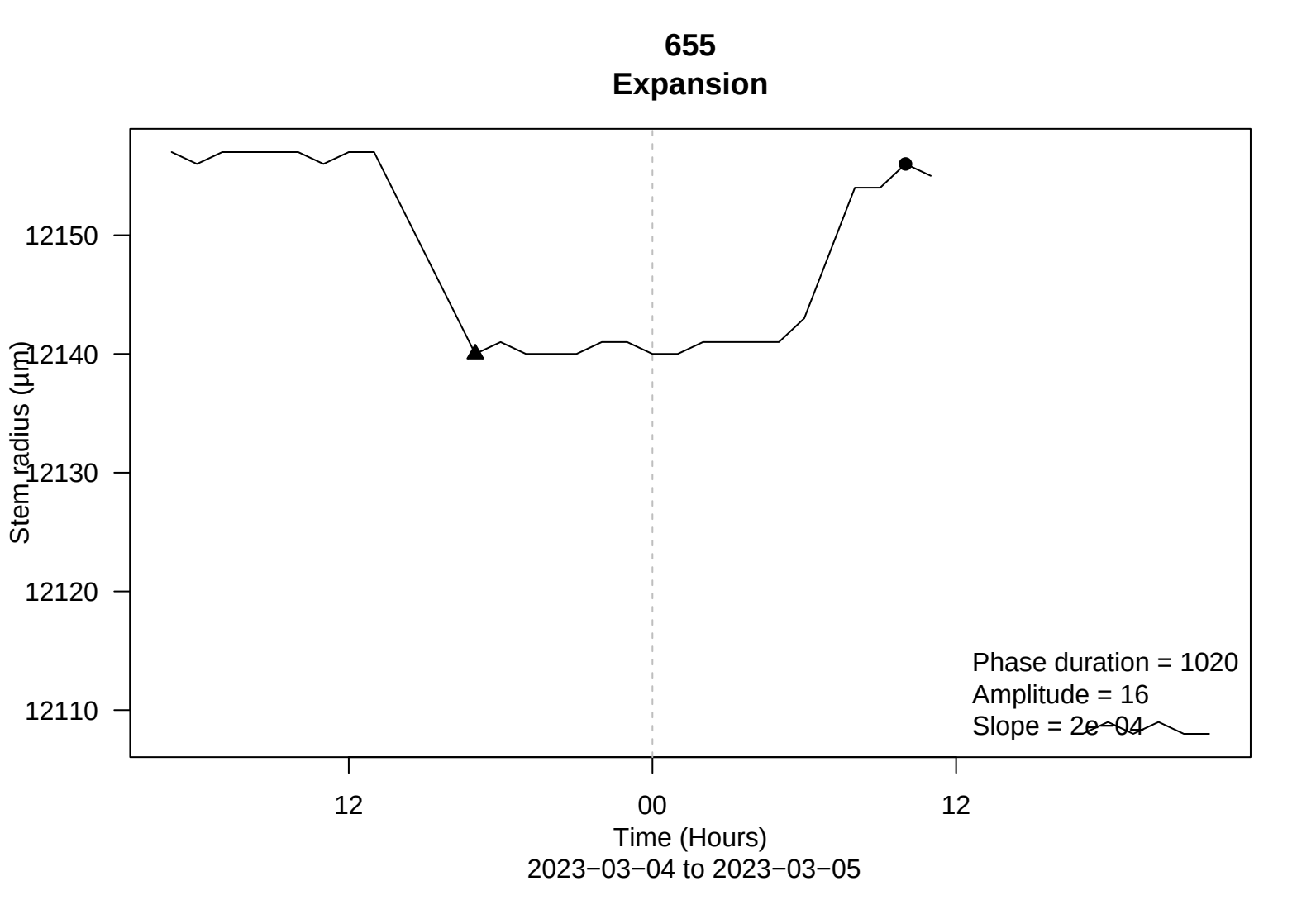

655
Expansion
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 780
Amplitude = 80
Slope = 0.0018
12
00
12
Time (Hours)
2023−02−21 to 2023−02−22

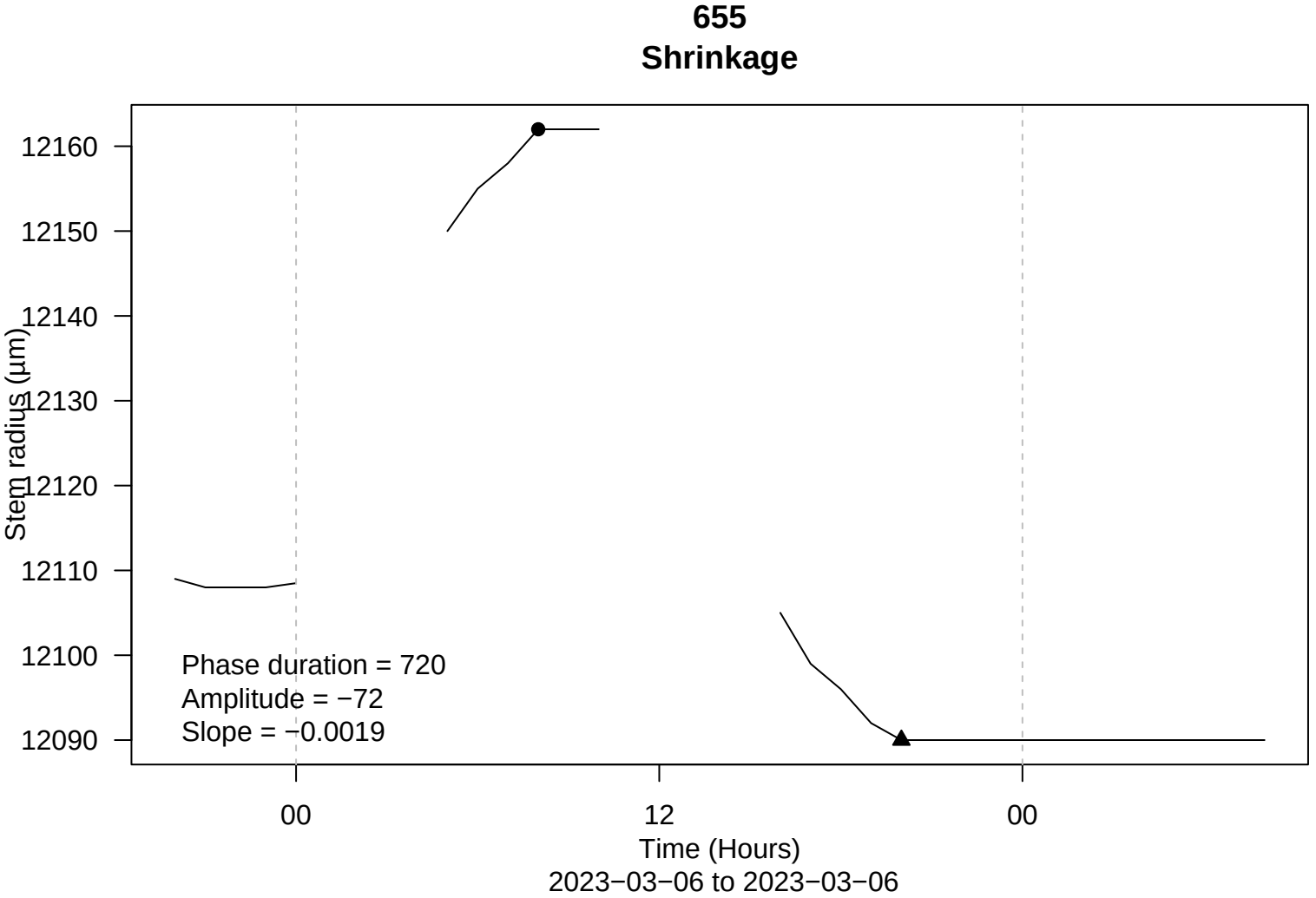

655
Shrinkage
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 480
Amplitude = −29
Slope = −0.0011
00
12
00
Time (Hours)
2023−02−22 to 2023−02−22

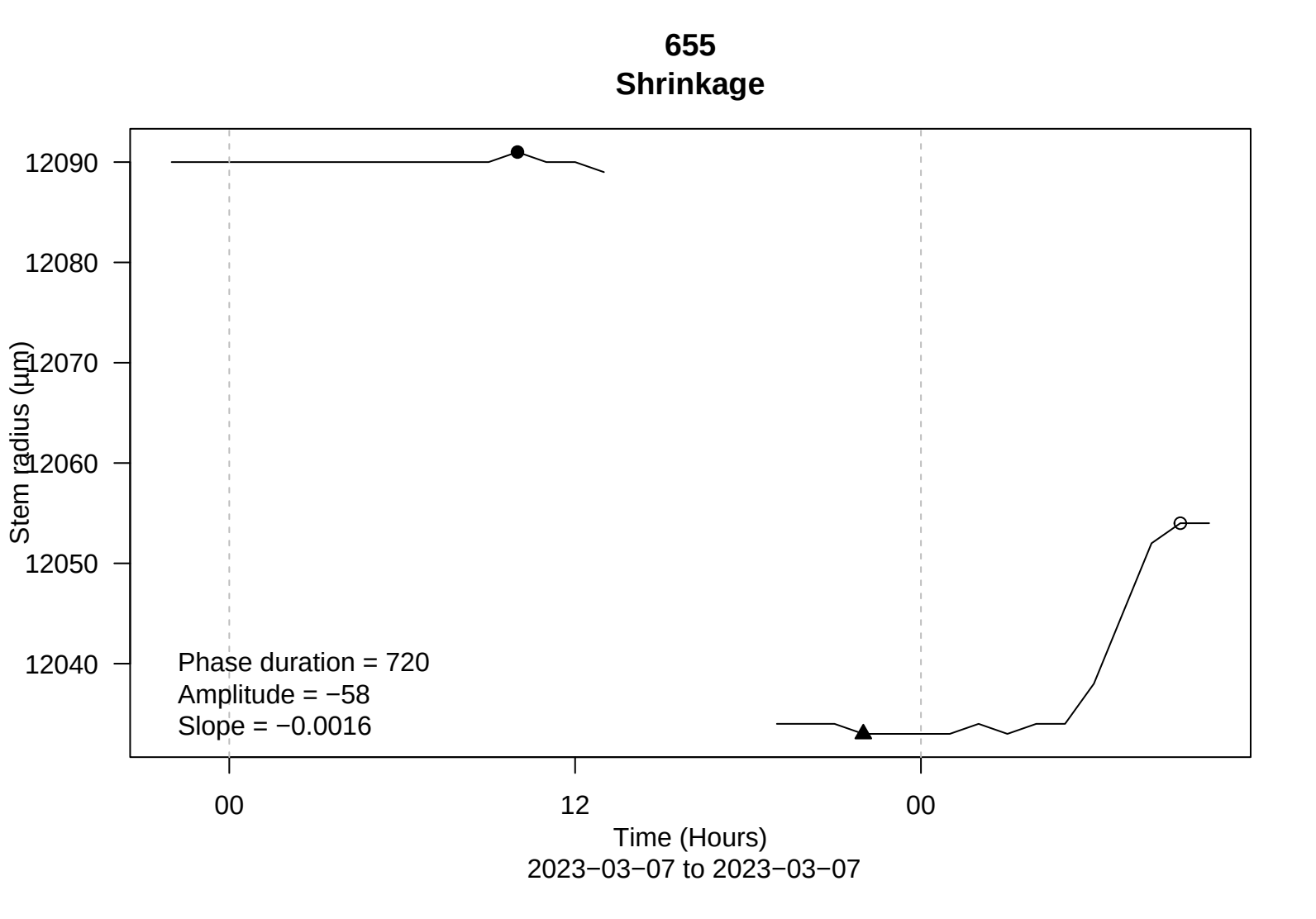

655
Expansion
12160
12150
12140
12130
Stem radius (µm)
Phase duration = 600
Amplitude = 37
Slope = 0.001
12
00
12
00
Time (Hours)
2023−02−27 to 2023−02−27

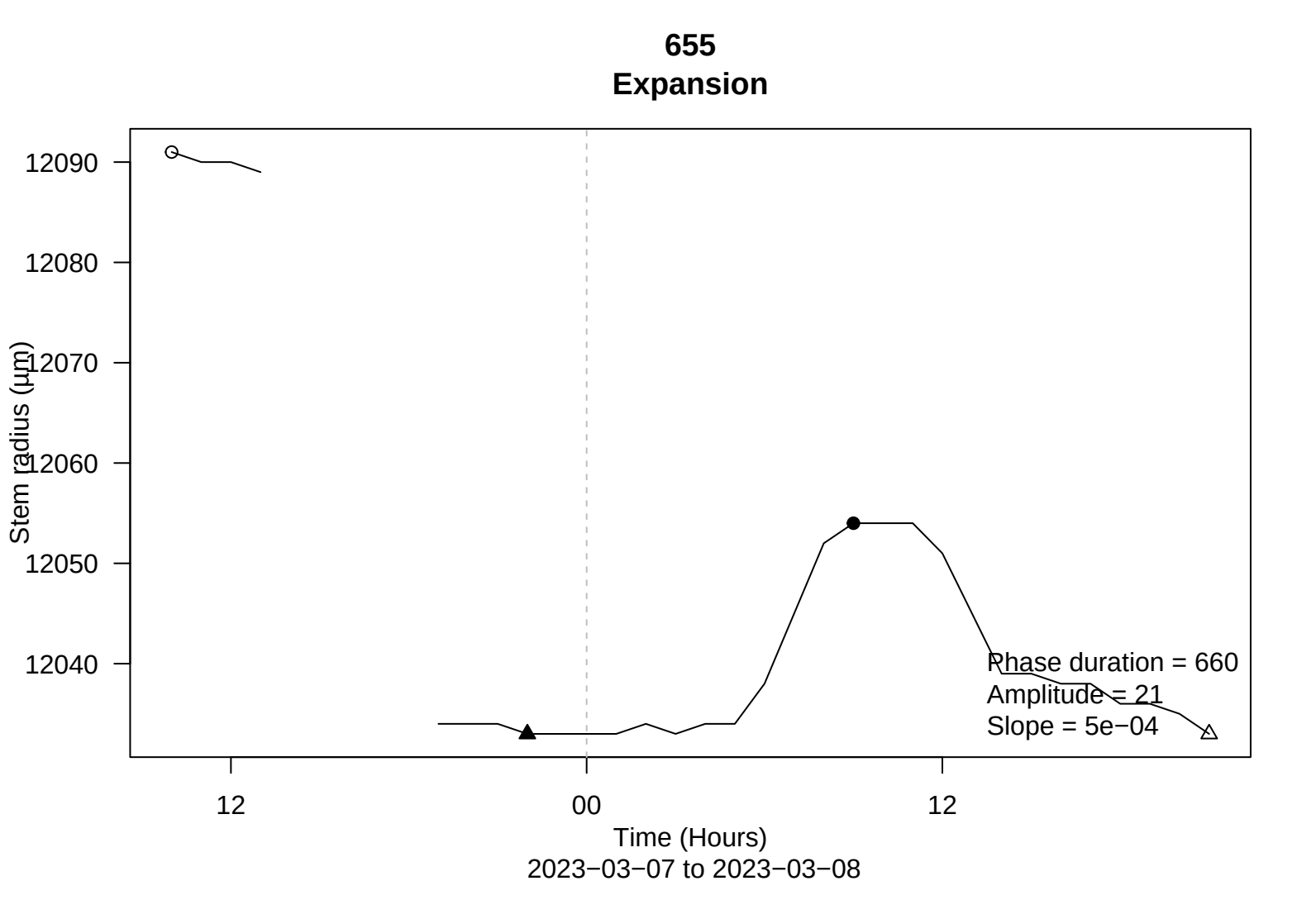

655
Shrinkage
12160
12150
12140
12130
Stem radius (µm)
Phase duration = 900
Amplitude = −32
Slope = −7e−04
00
12
00
12
Time (Hours)
2023−02−27 to 2023−02−28

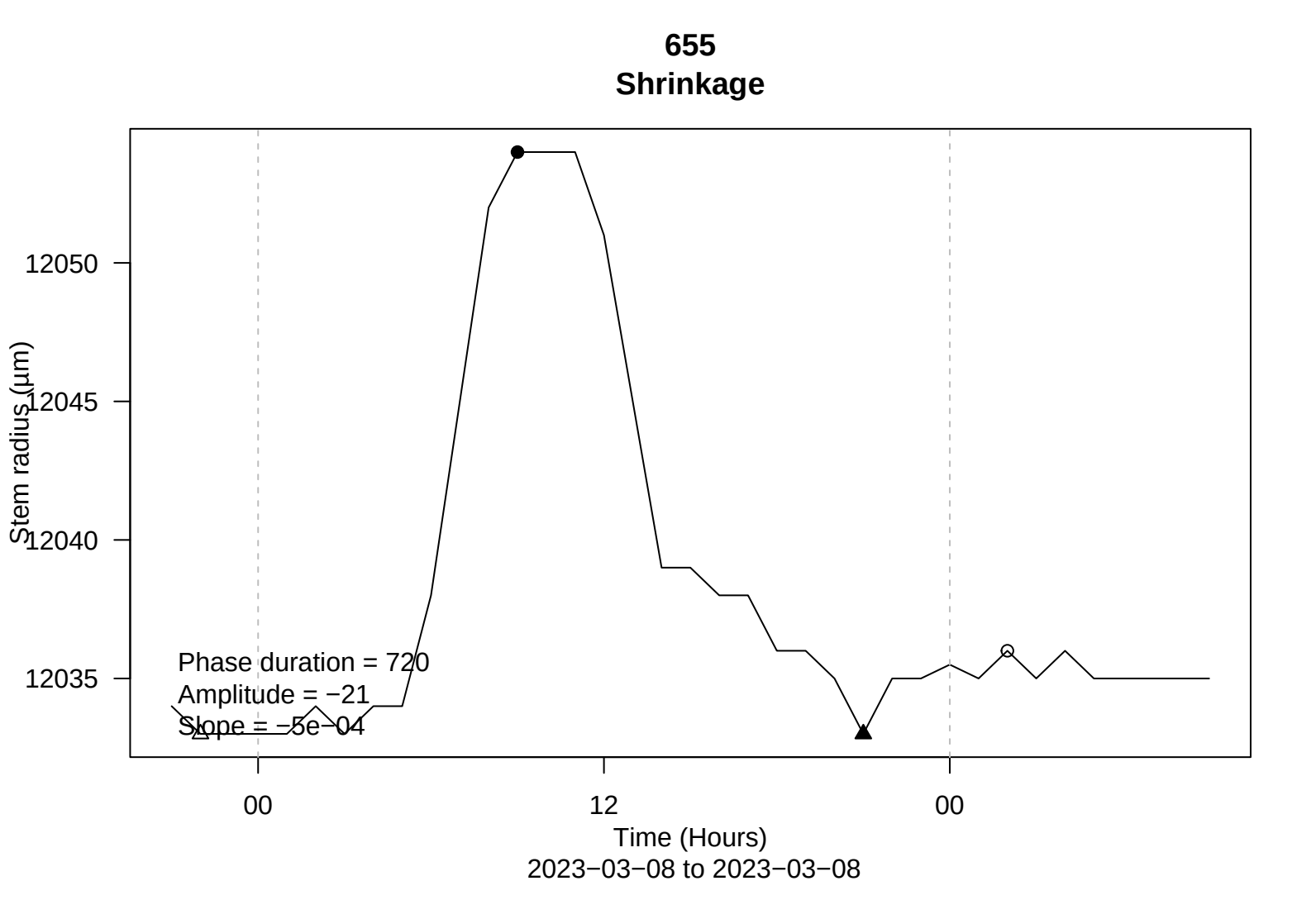

655
Shrinkage
12170
12165
12160
12155
12150
12145
12140
Stem radius (µm)
Phase duration = 960
Amplitude = −18
Slope = −2e−04
12
00
12
00
Time (Hours)
2023−03−04 to 2023−03−04

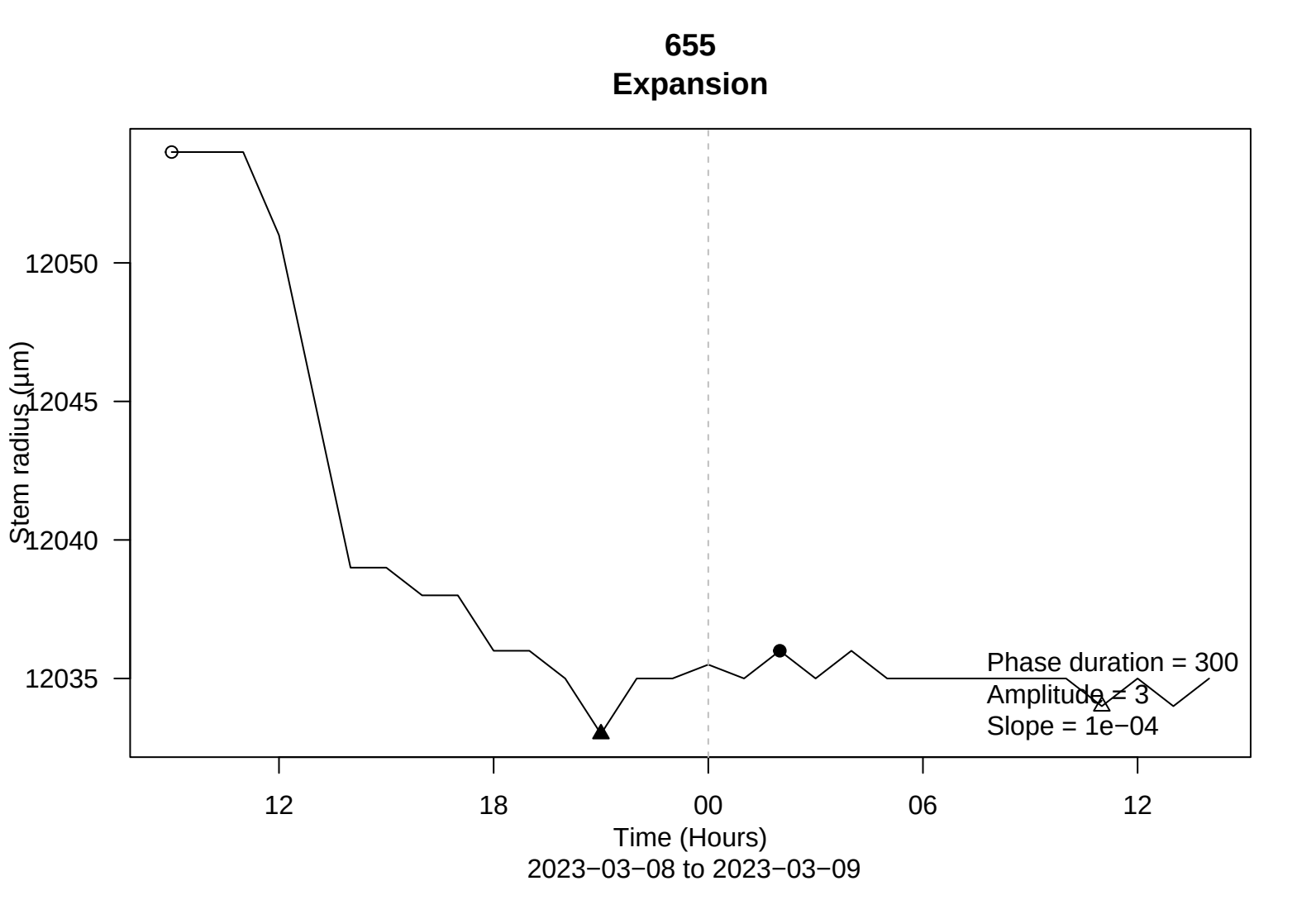

655
Expansion
12150
12140
12130
12120
12110
Stem radius (µm)
Phase duration = 1020
Amplitude = 16
Slope = 2e−04
12
00
12
Time (Hours)
2023−03−04 to 2023−03−05

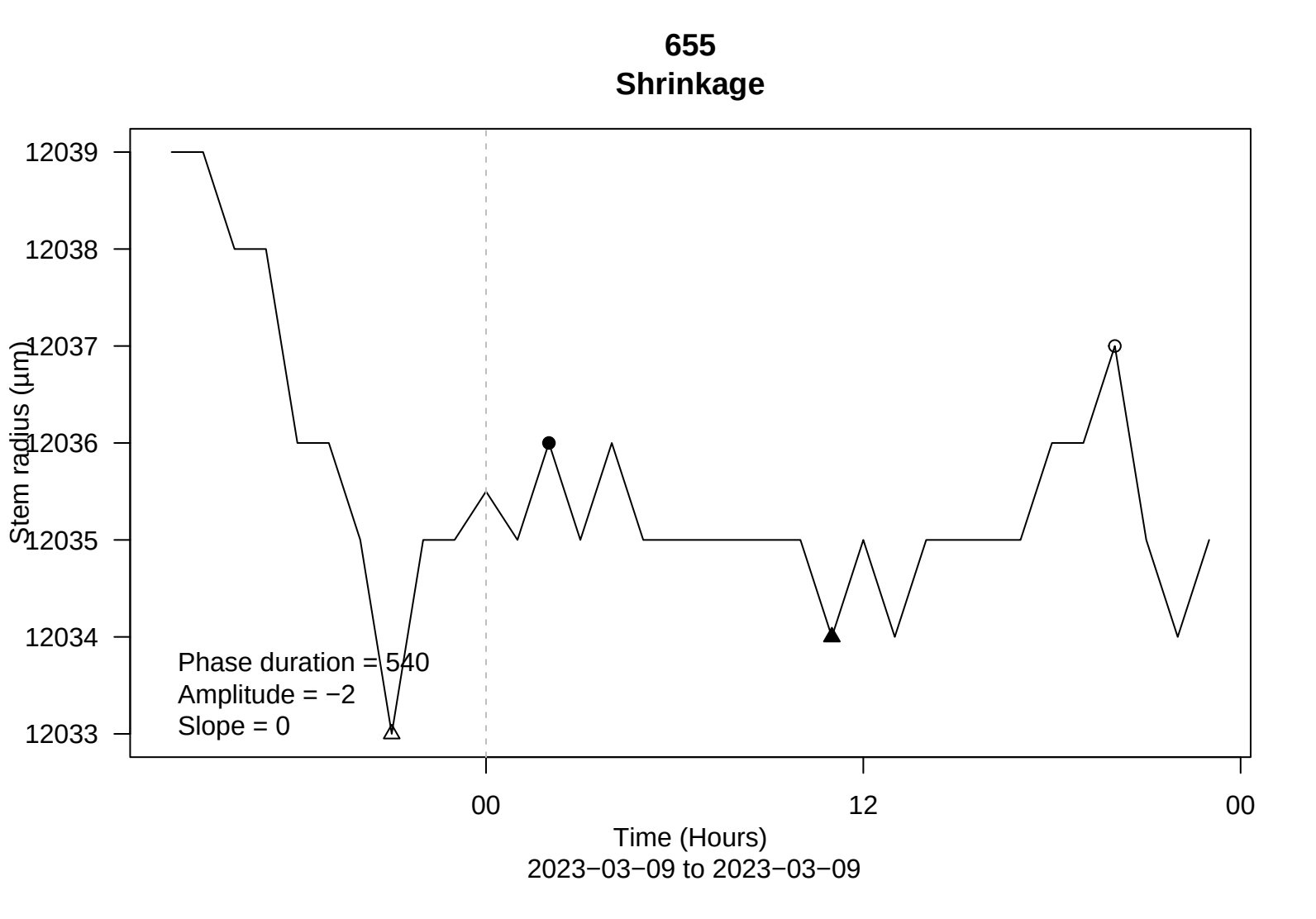

655
Shrinkage
12160
12150
12140
12130
12120
12110
12100
12090
Stem radius (µm)
Phase duration = 720
Amplitude = −72
Slope = −0.0019
00
12
00
Time (Hours)
2023−03−06 to 2023−03−06

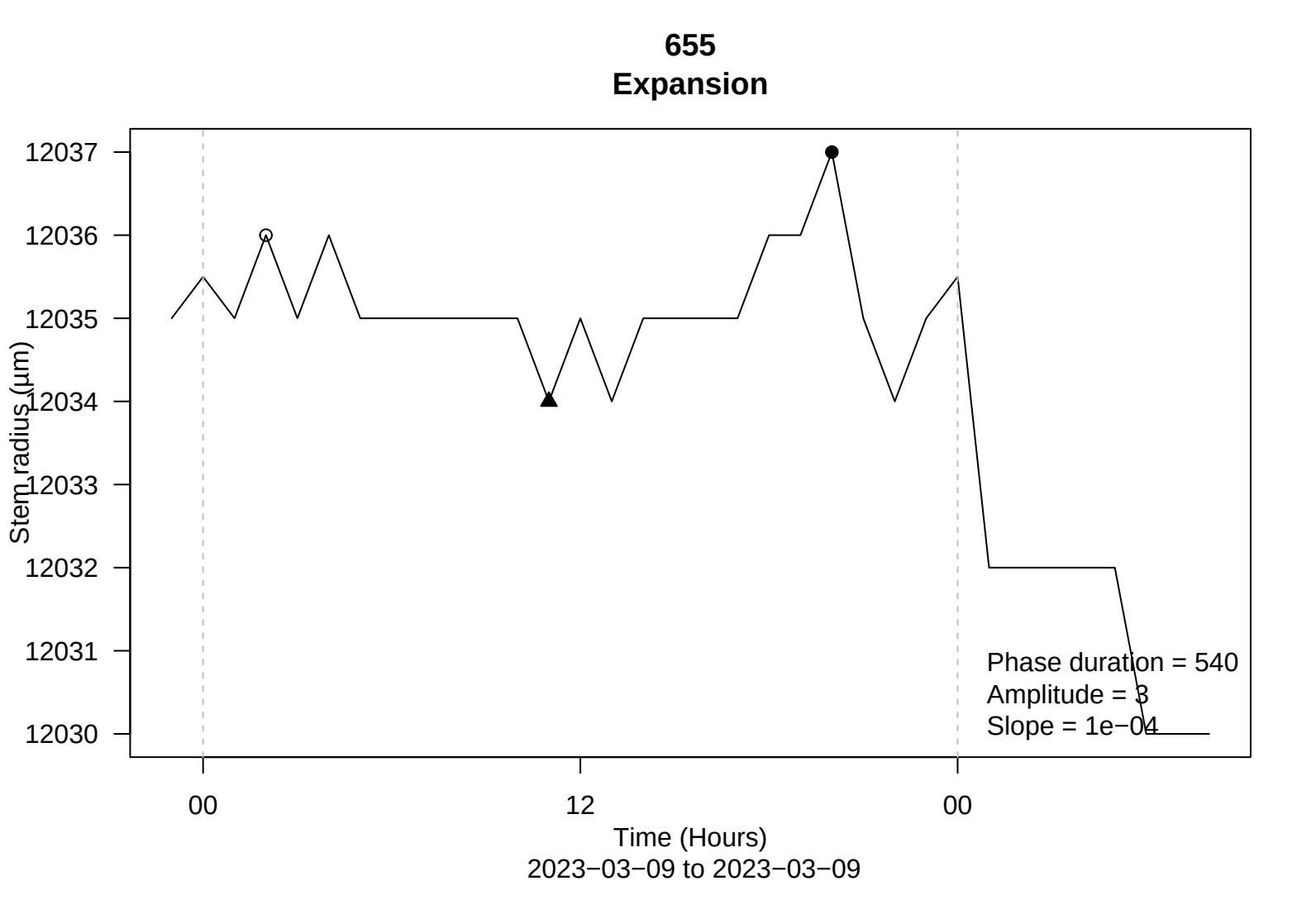

655
Shrinkage
12090
12080
12070
12060
12050
12040
Stem radius (µm)
Phase duration = 720
Amplitude = −58
Slope = −0.0016
00
12
00
Time (Hours)
2023−03−07 to 2023−03−07

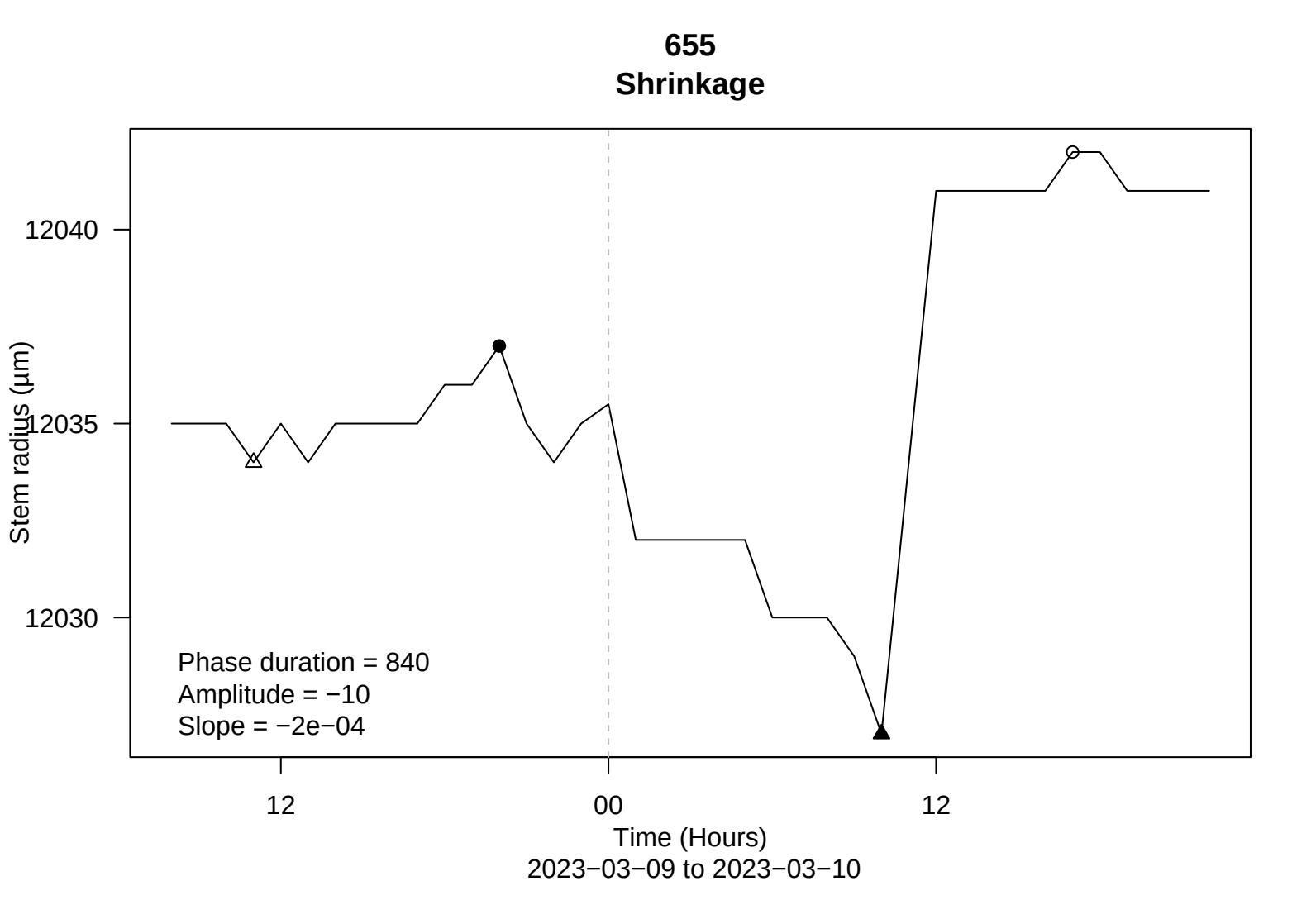

655
Expansion
12090
12080
12070
12060
12050
12040
Stem radius (µm)
Phase duration = 660
Amplitude = 21
Slope = 5e−04
12
00
12
Time (Hours)
2023−03−07 to 2023−03−08

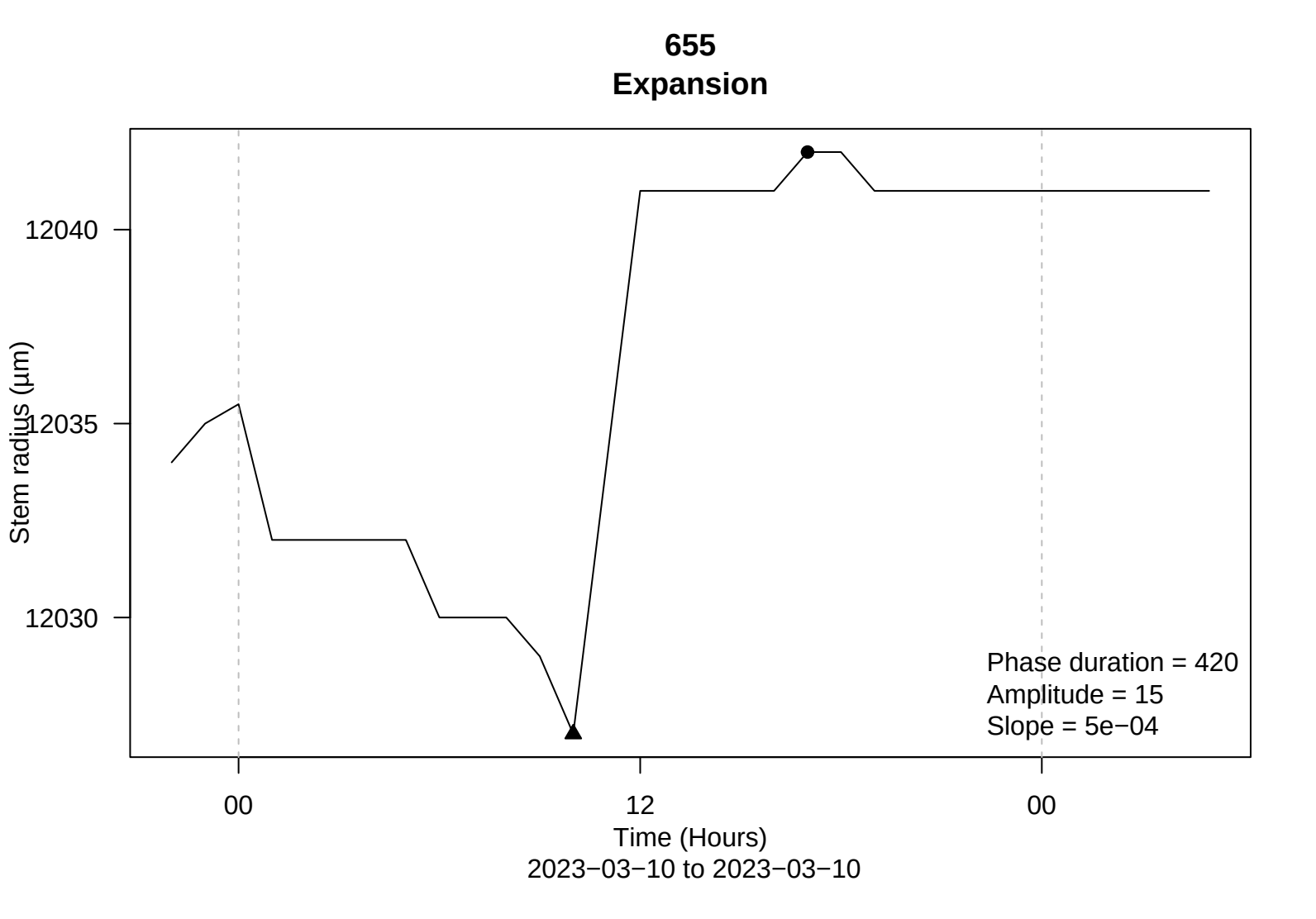

655
Shrinkage
12050
12045
12040
12035
Stem radius (µm)
Phase duration = 720
Amplitude = −21
Slope = −5e−04
00
12
00
Time (Hours)
2023−03−08 to 2023−03−08

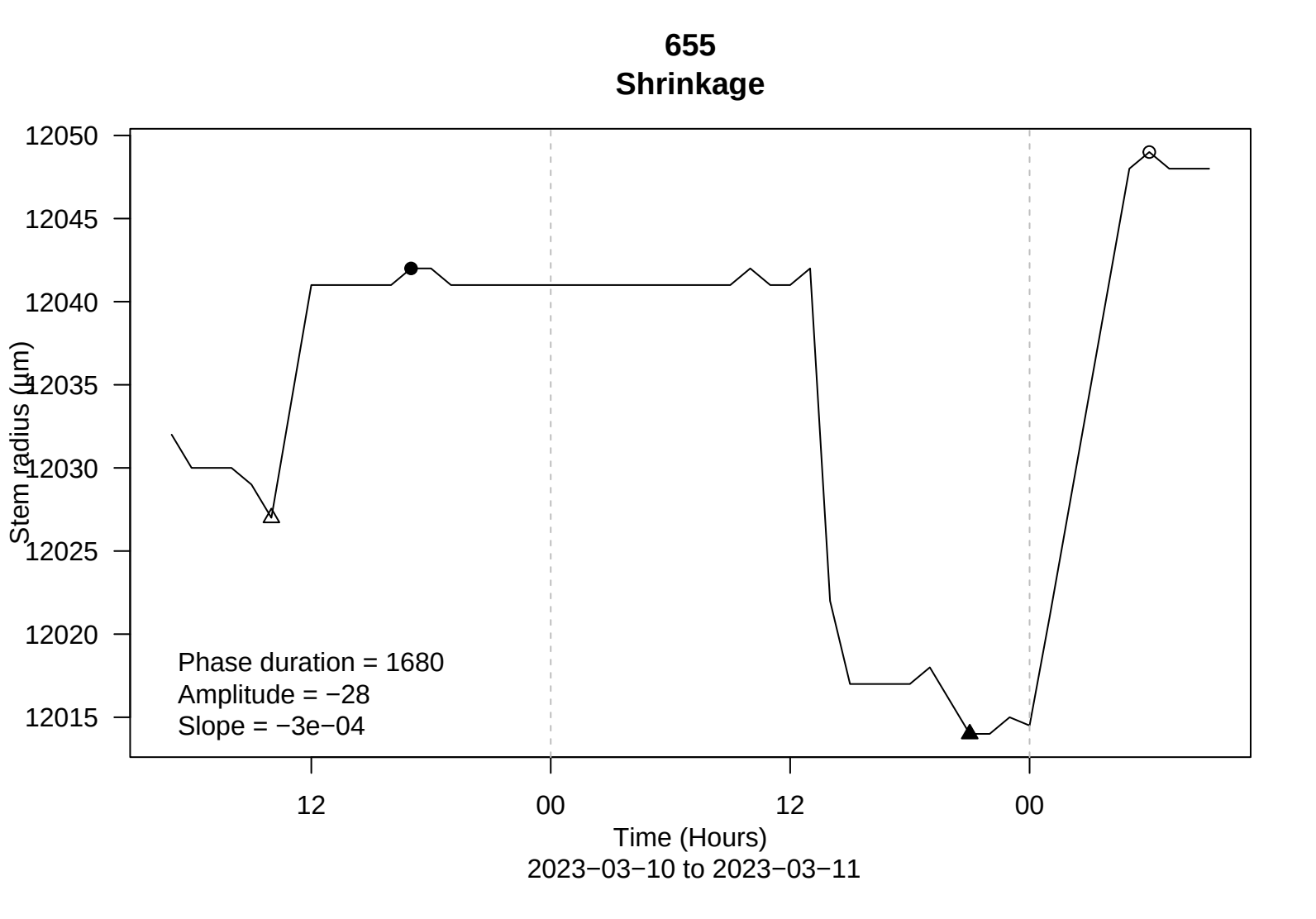

655
Expansion
12050
12045
12040
12035
Stem radius (µm)
Phase duration = 300
Amplitude = 3
Slope = 1e−04
12
18
00
06
12
Time (Hours)
2023−03−08 to 2023−03−09

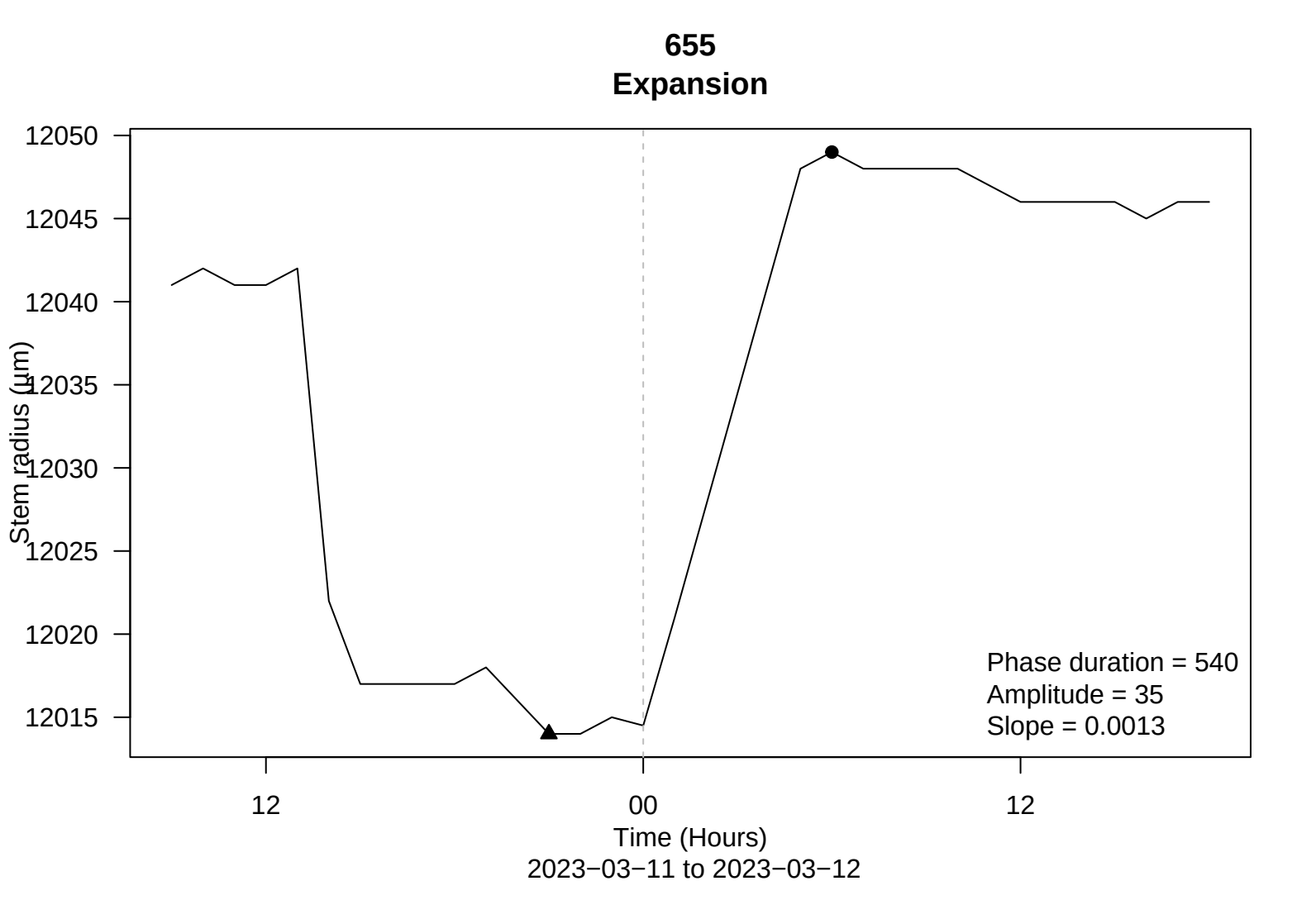

655
Shrinkage
12039
12038
12037
12036
12035
12034
12033
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−03−09 to 2023−03−09

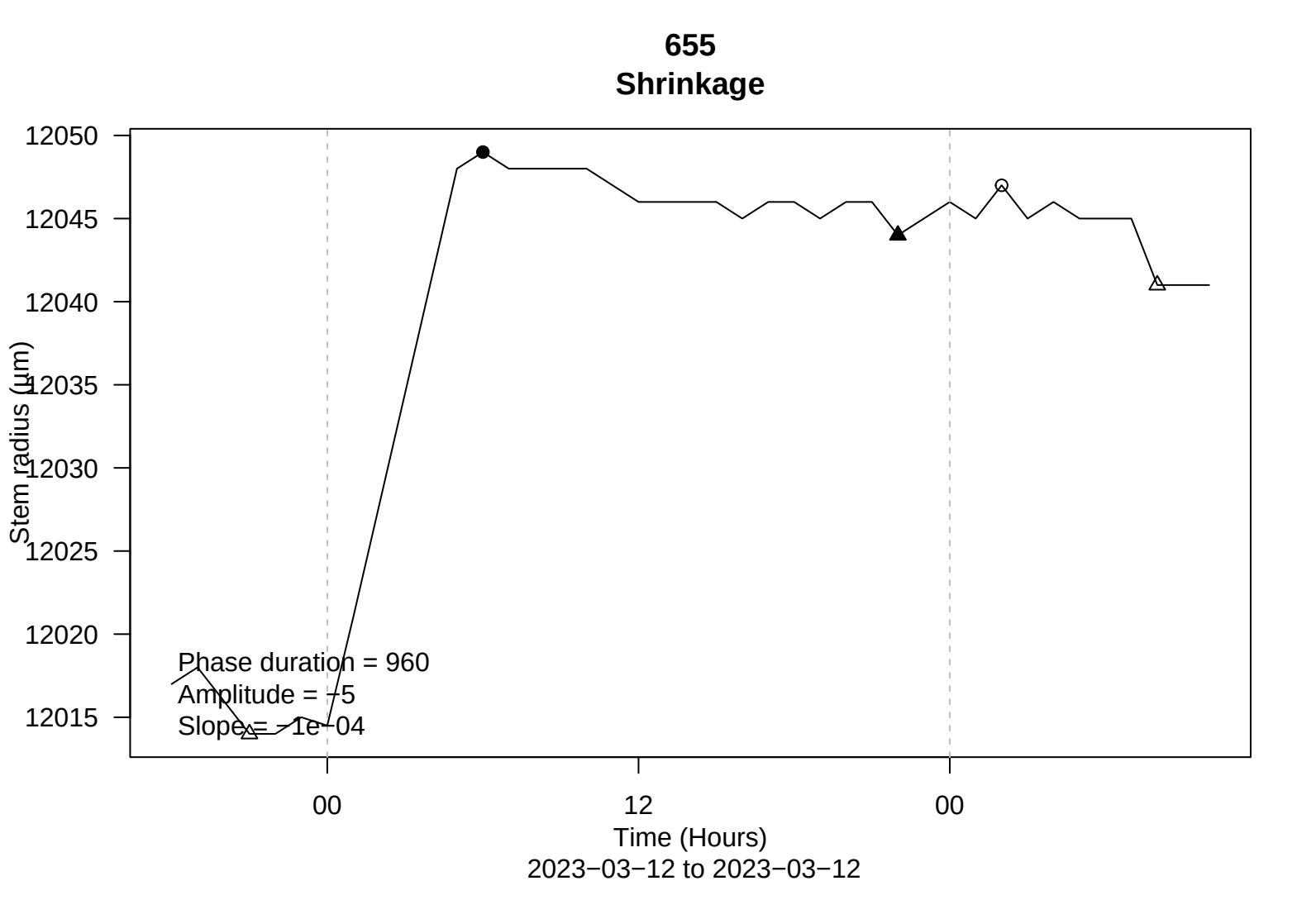

655
Expansion
12037
12036
12035
12034
12033
12032
12031
12030
Stem radius (µm)
Phase duration = 540
Amplitude = 3
Slope = 1e−04
00
12
00
Time (Hours)
2023−03−09 to 2023−03−09

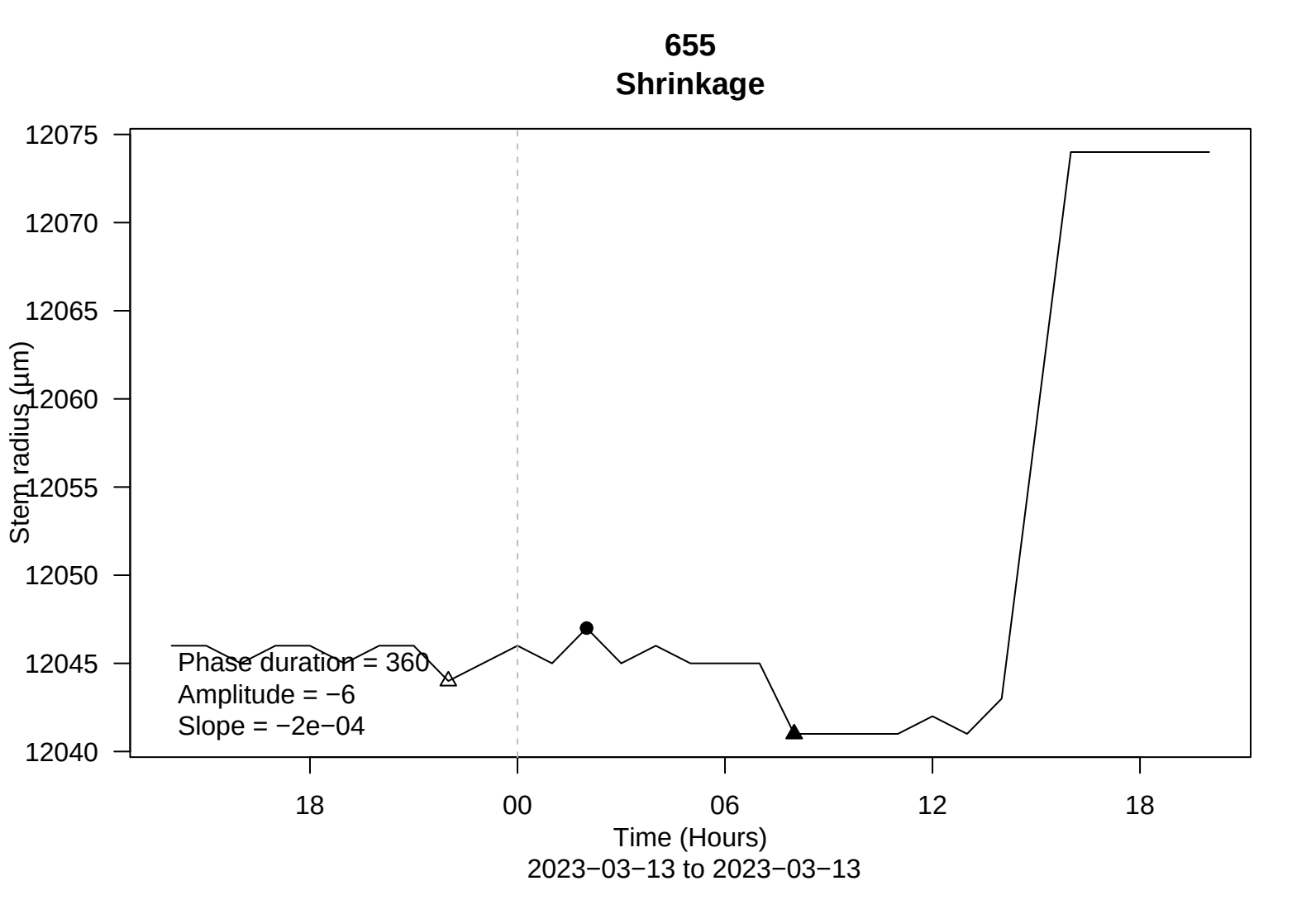

655
Shrinkage
12040
12035
12030
Stem radius (µm)
Phase duration = 840
Amplitude = −10
Slope = −2e−04
12
00
12
Time (Hours)
2023−03−09 to 2023−03−10

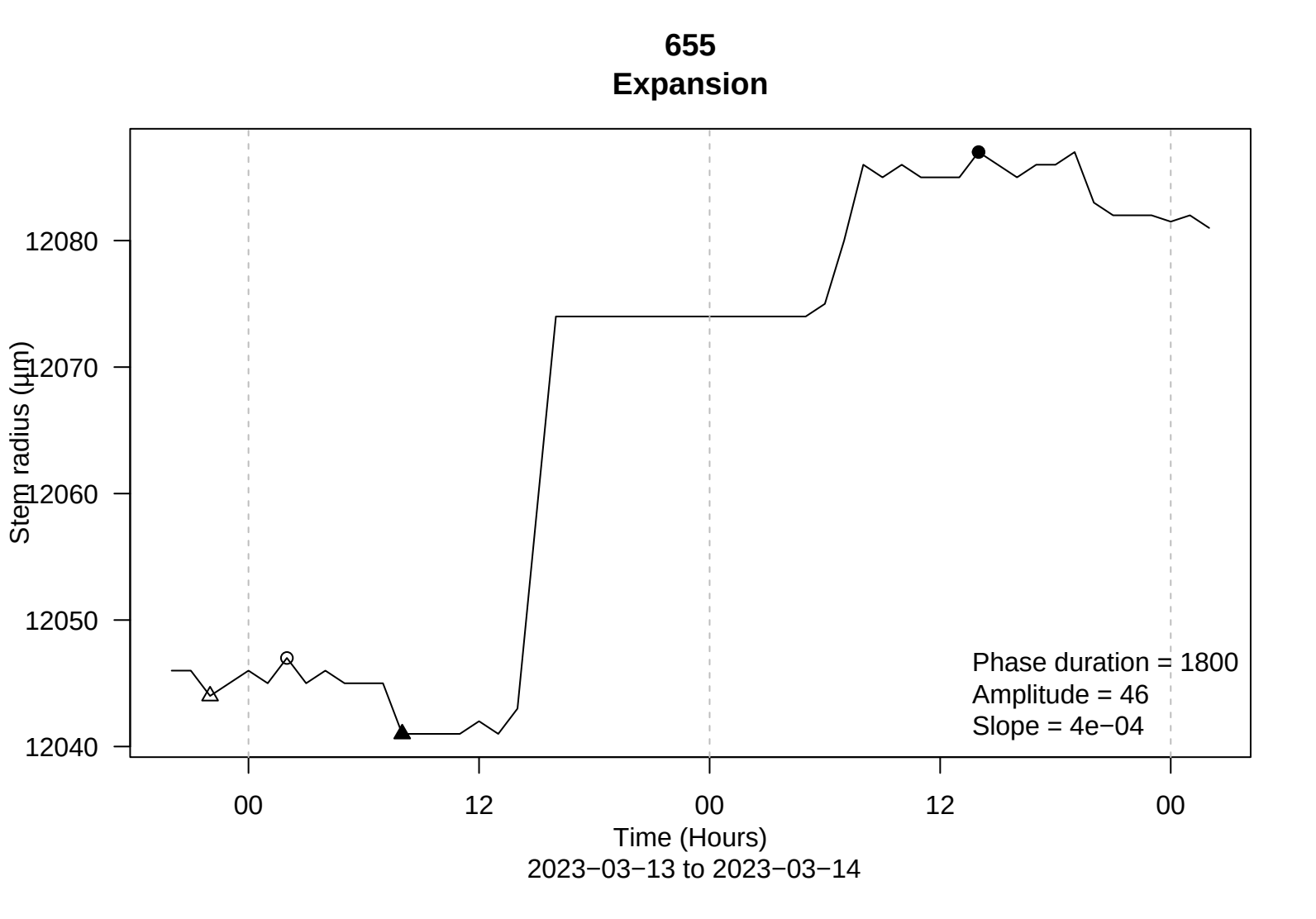

655
Expansion
12040
12035
12030
Stem radius (µm)
Phase duration = 420
Amplitude = 15
Slope = 5e−04
00
12
00
Time (Hours)
2023−03−10 to 2023−03−10

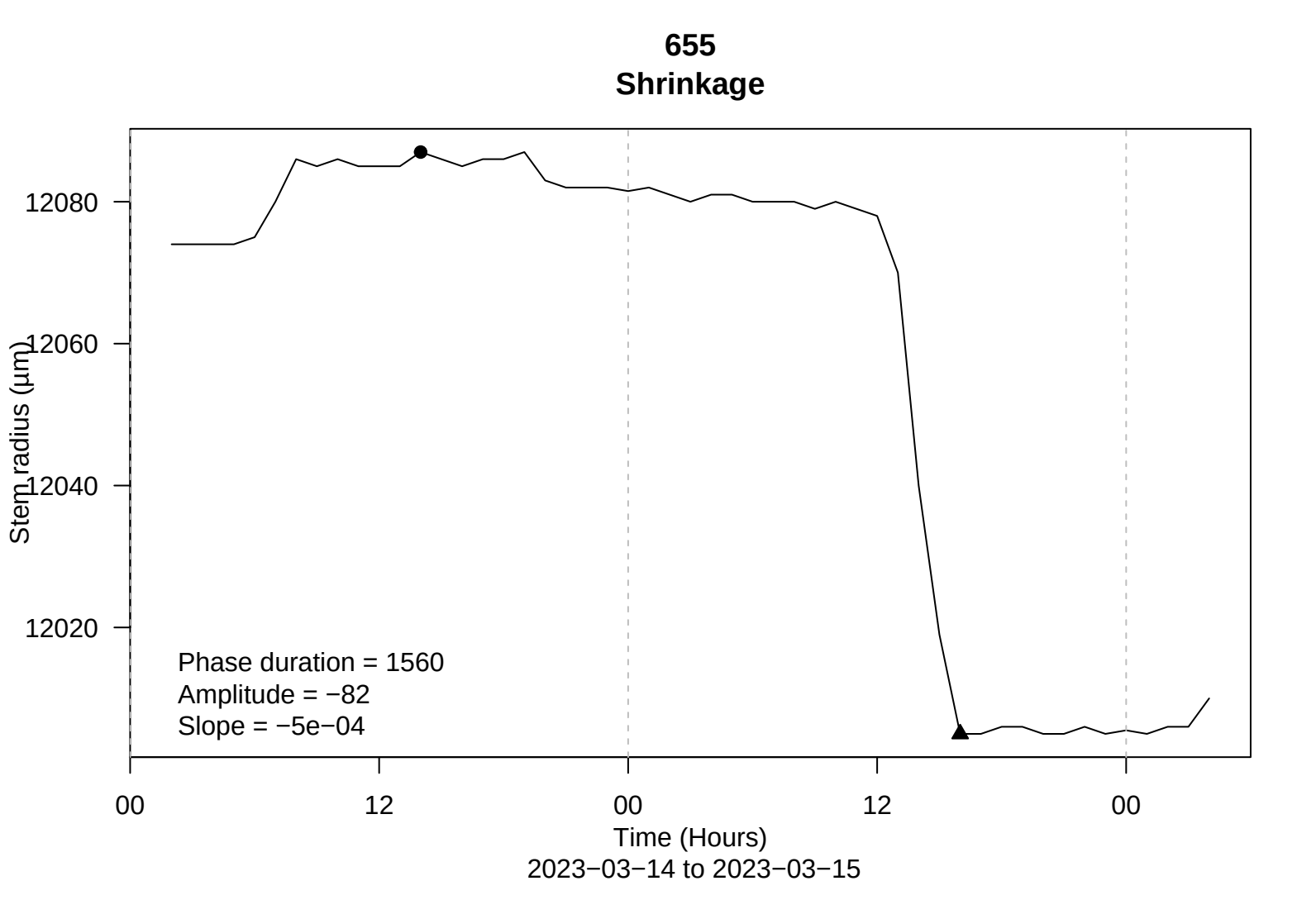

655
Shrinkage
12050
12045
12040
12035
12030
12025
12020
12015
Stem radius (µm)
Phase duration = 1680
Amplitude = −28
Slope = −3e−04
12
00
12
00
Time (Hours)
2023−03−10 to 2023−03−11

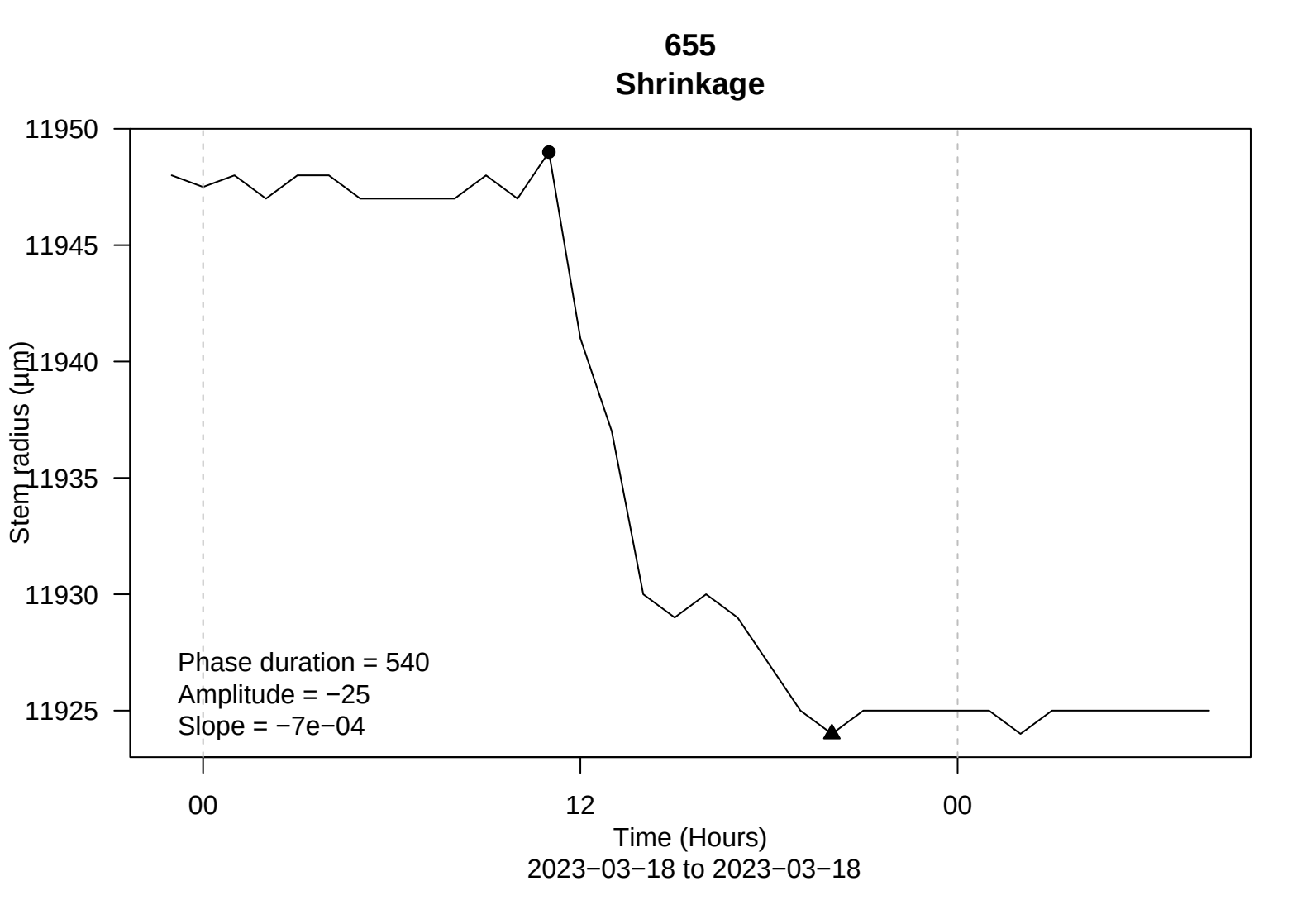

655
Expansion
12050
12045
12040
12035
12030
12025
12020
12015
Stem radius (µm)
Phase duration = 540
Amplitude = 35
Slope = 0.0013
12
00
12
Time (Hours)
2023−03−11 to 2023−03−12

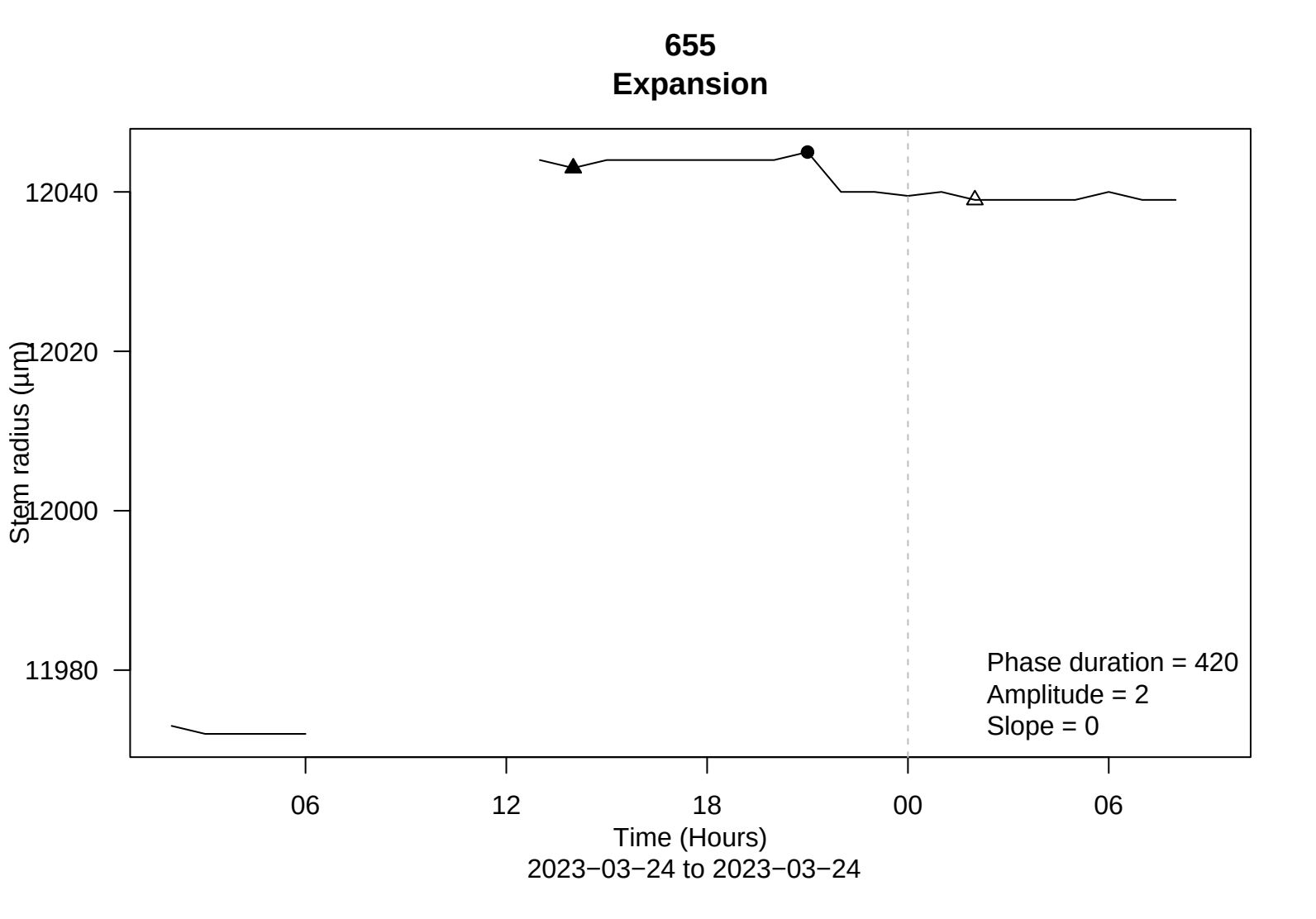

655
Shrinkage
12050
12045
12040
12035
12030
12025
12020
12015
Stem radius (µm)
Phase duration = 960
Amplitude = −5
Slope = −1e−04
00
12
00
Time (Hours)
2023−03−12 to 2023−03−12

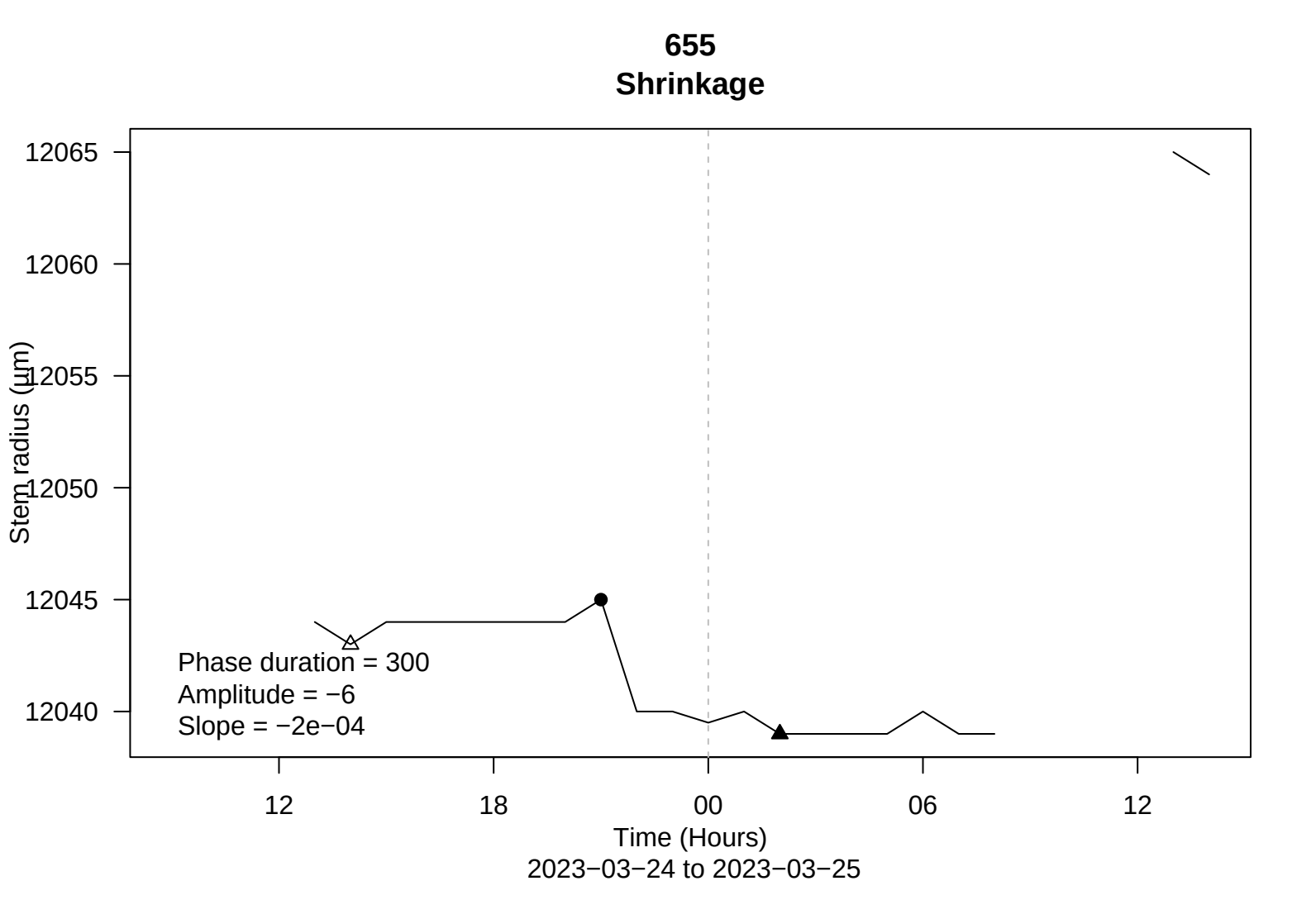

655
Shrinkage
12075
12070
12065
12060
12055
12050
12045
12040
Stem radius (µm)
Phase duration = 360
Amplitude = −6
Slope = −2e−04
18
00
06
12
18
Time (Hours)
2023−03−13 to 2023−03−13

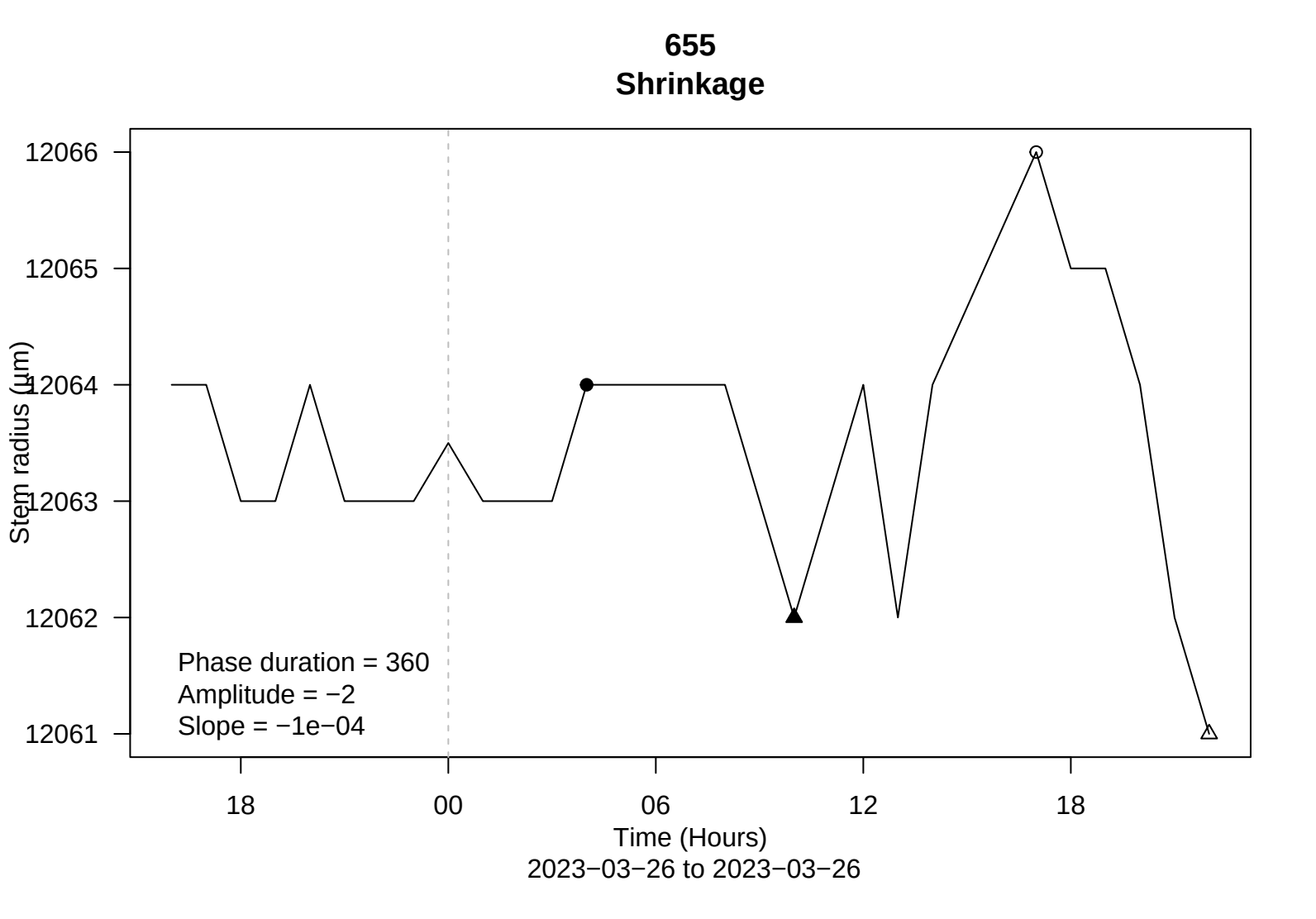

655
Expansion
12080
12070
12060
12050
12040
Stem radius (µm)
00
12
00
12
00
Time (Hours)
2023−03−13 to 2023−03−14
Phase duration = 1800
Amplitude = 46
Slope = 4e−04

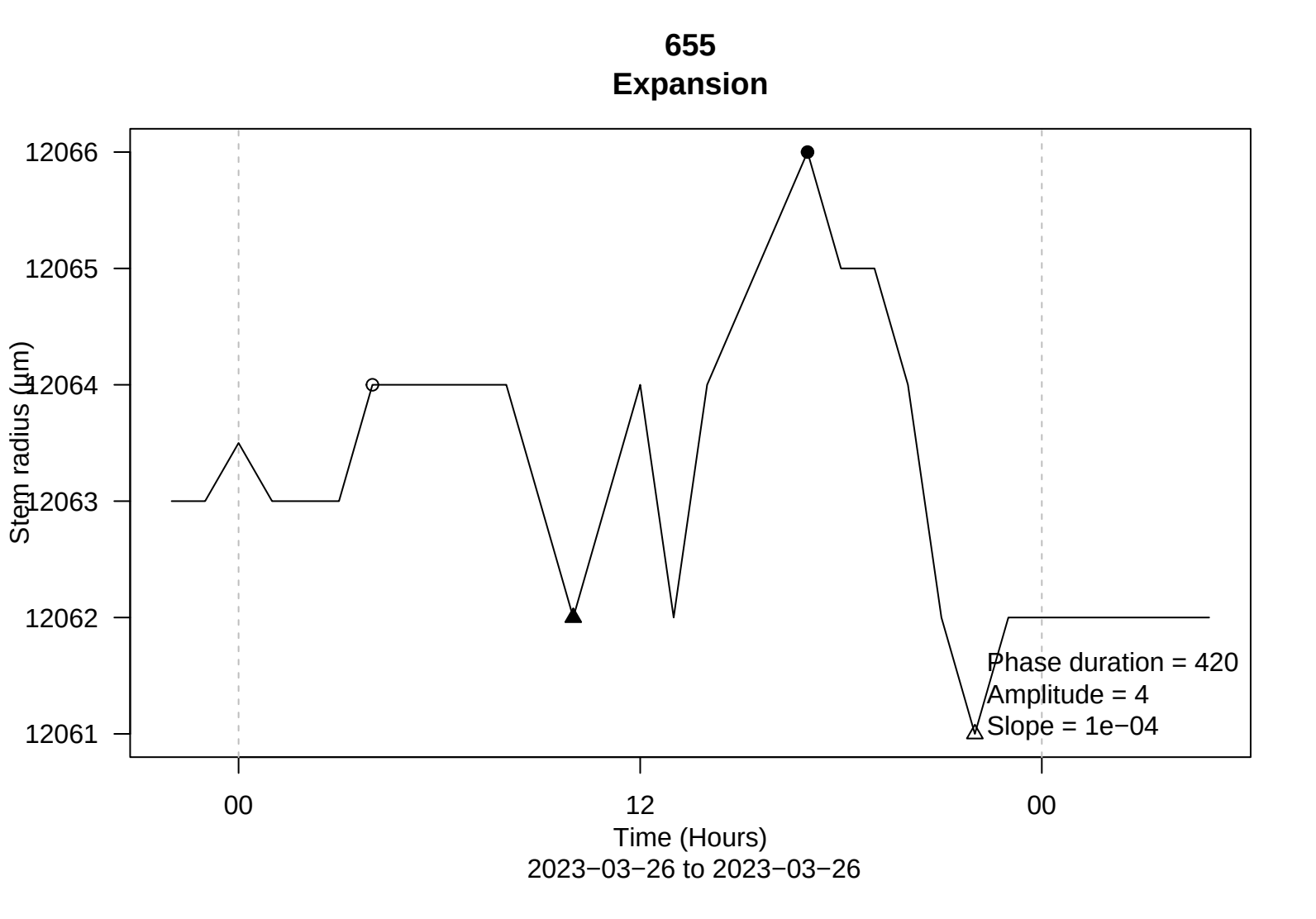

655
Shrinkage
12080
12060
12040
12020
Stem radius (µm)
Phase duration = 1560
Amplitude = −82
Slope = −5e−04
00
12
00
12
00
Time (Hours)
2023−03−14 to 2023−03−15

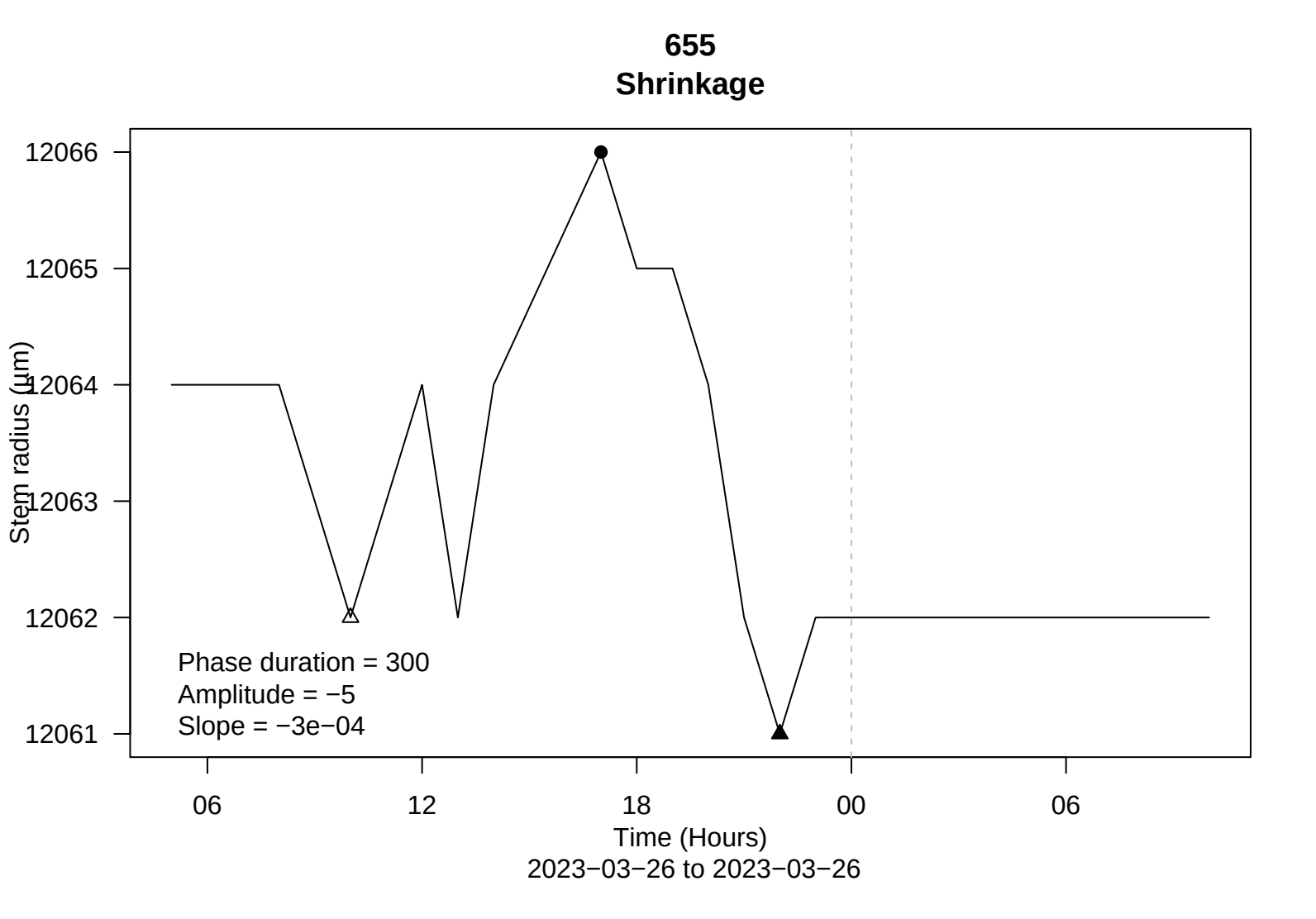

655
Shrinkage
11950
11945
11940
11935
11930
11925
Stem radius (µm)
Phase duration = 540
Amplitude = −25
Slope = −7e−04
00
12
00
Time (Hours)
2023−03−18 to 2023−03−18

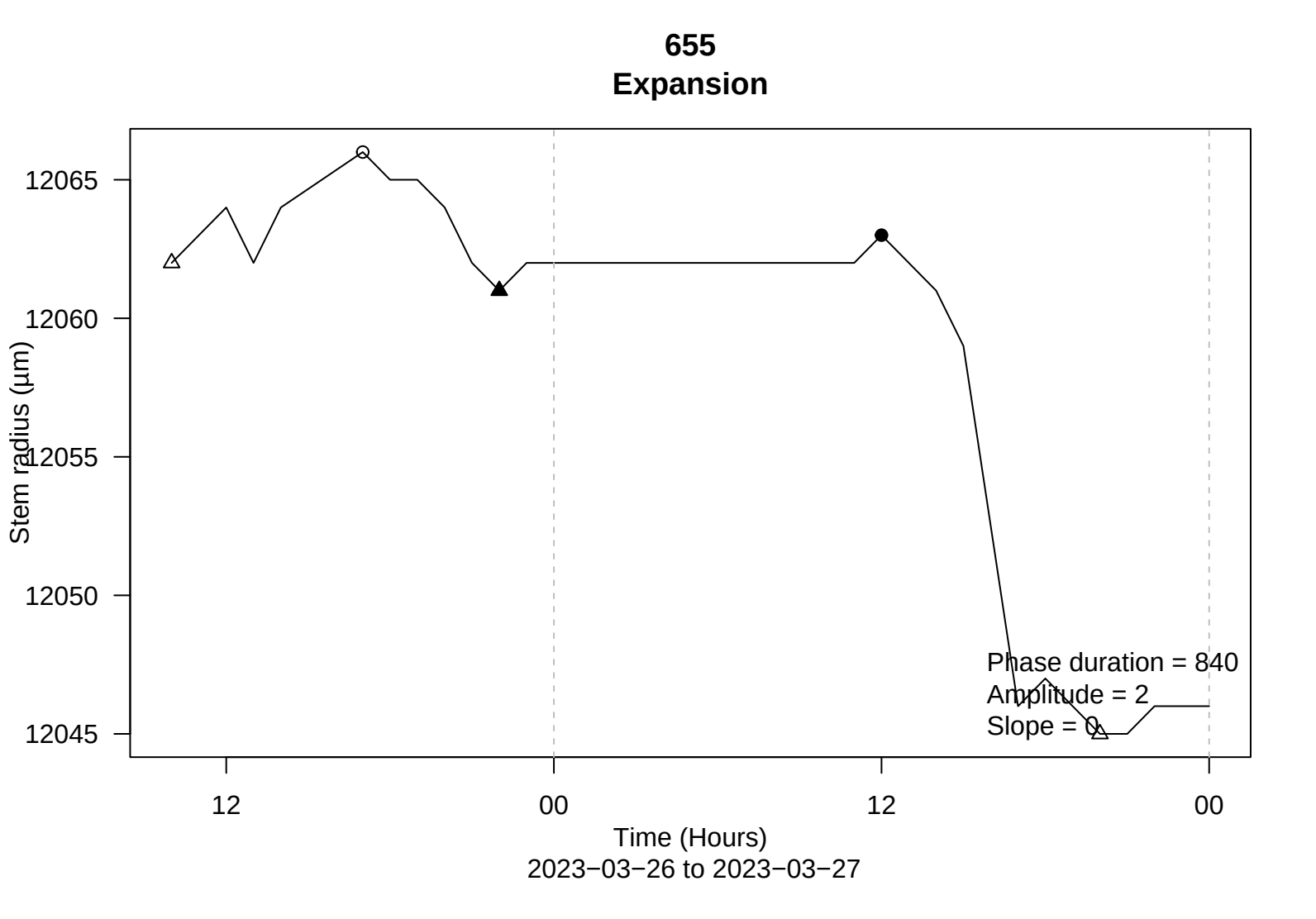

655
Expansion
12040
12020
12000
11980
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
06
12
18
00
06
Time (Hours)
2023−03−24 to 2023−03−24

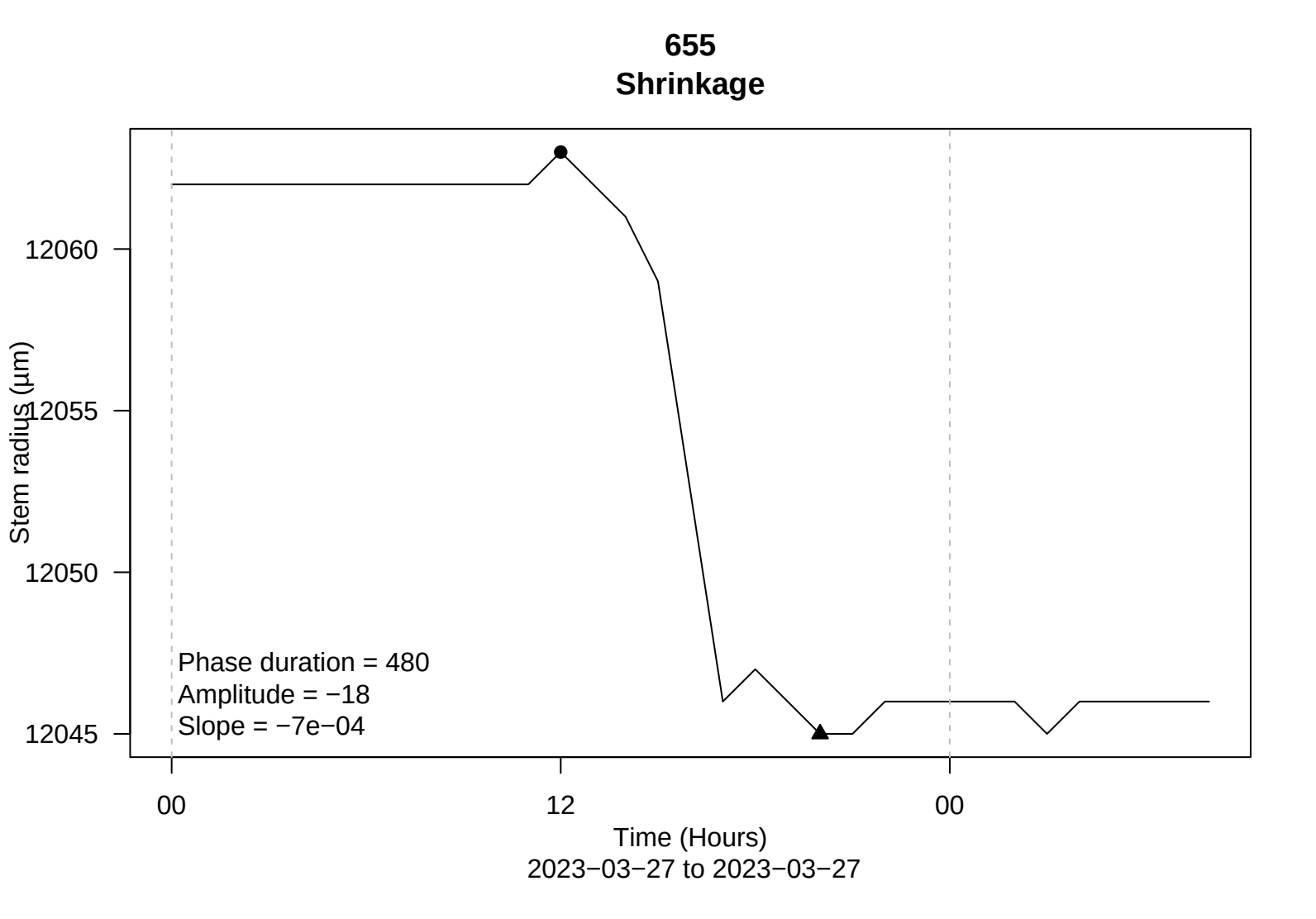

655
Shrinkage
12065
12060
12055
12050
12045
12040
Stem radius (µm)
Phase duration = 300
Amplitude = −6
Slope = −2e−04
12
18
00
06
12
Time (Hours)
2023−03−24 to 2023−03−25

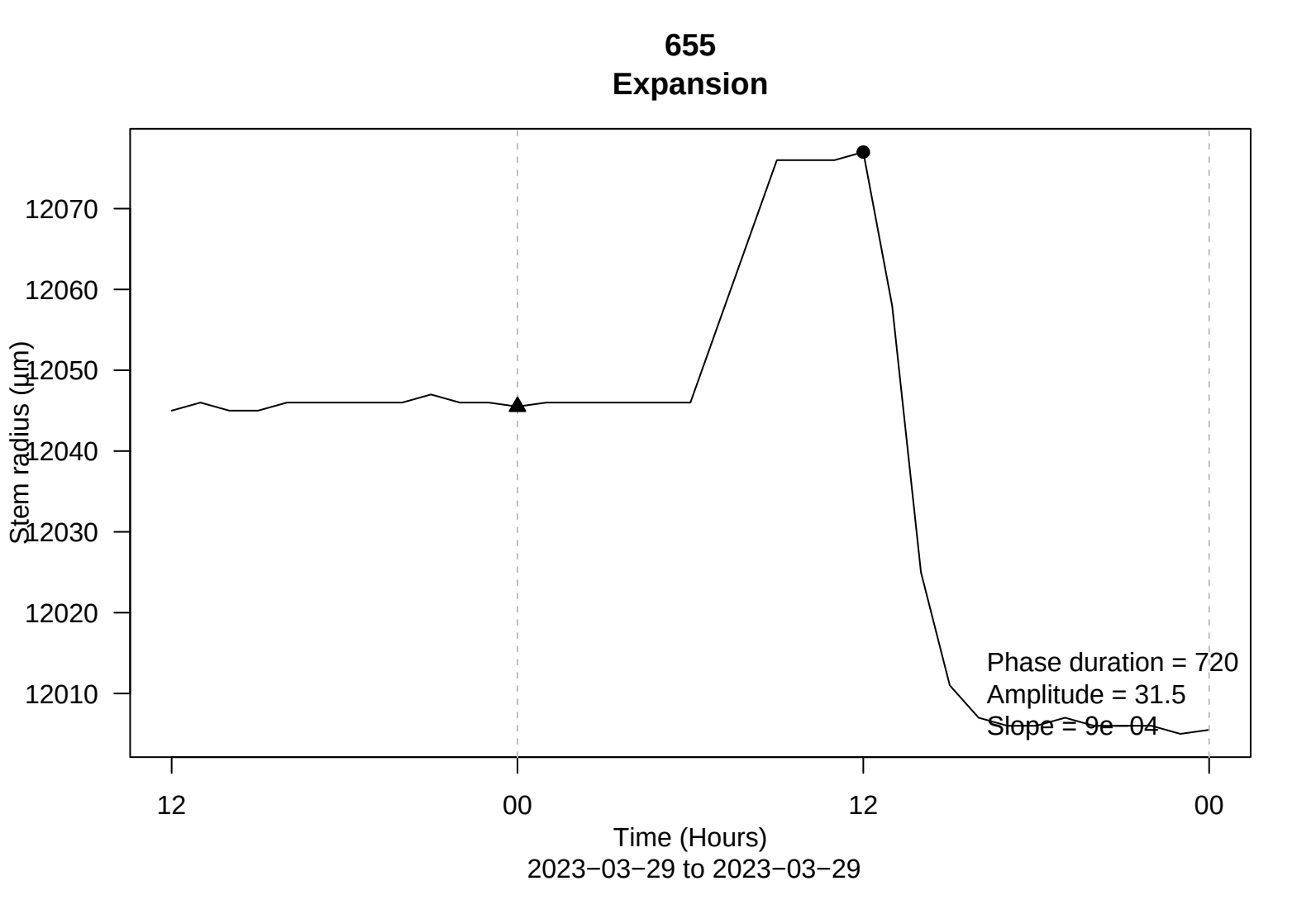

655
Shrinkage
12066
12065
12064
12063
12062
12061
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = −1e−04
18
00
06
12
18
Time (Hours)
2023−03−26 to 2023−03−26

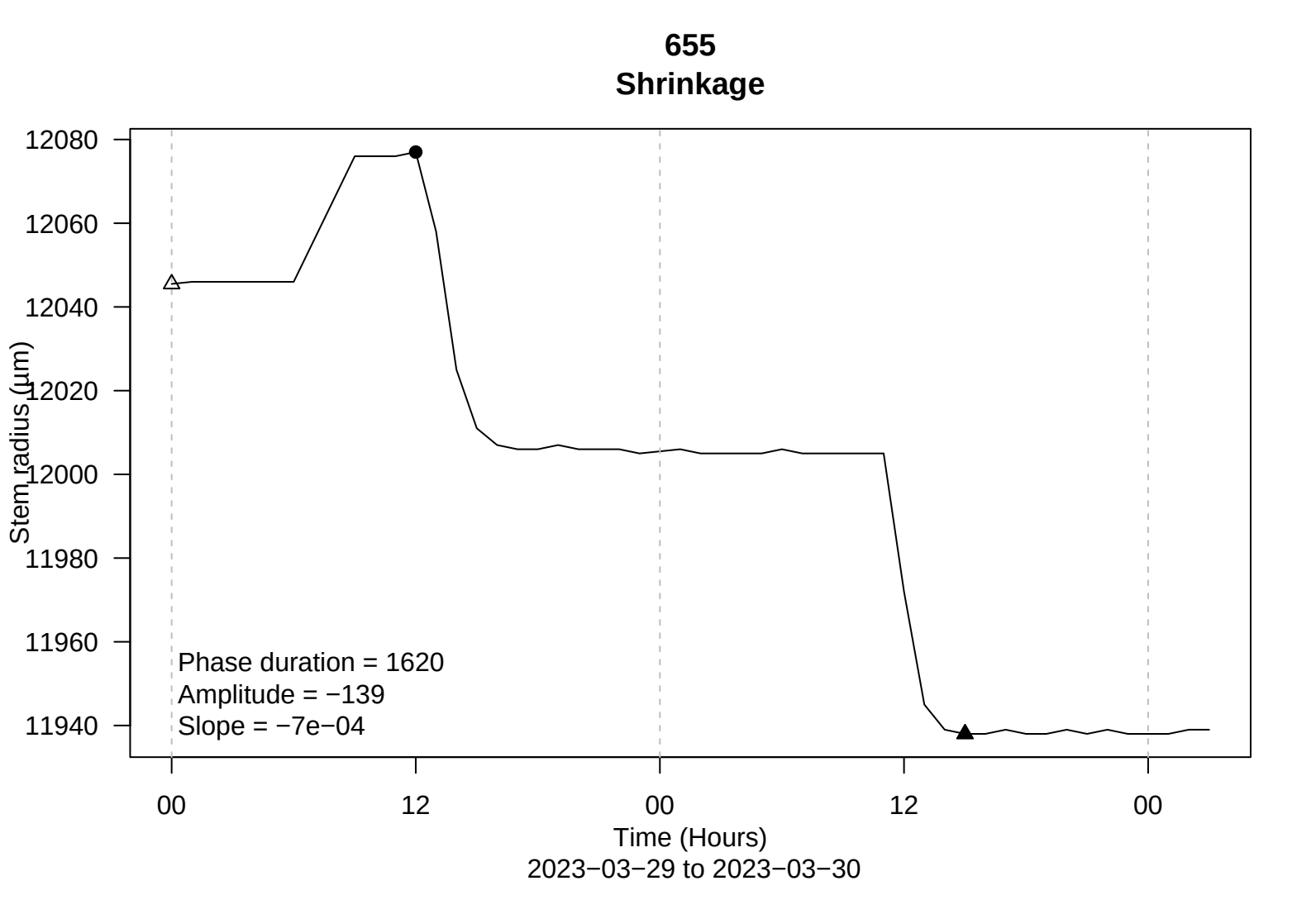

655
Expansion
12066
12065
12064
12063
12062
12061
Stem radius (µm)
Phase duration = 420
Amplitude = 4
Slope = 1e−04
00
12
00
Time (Hours)
2023−03−26 to 2023−03−26

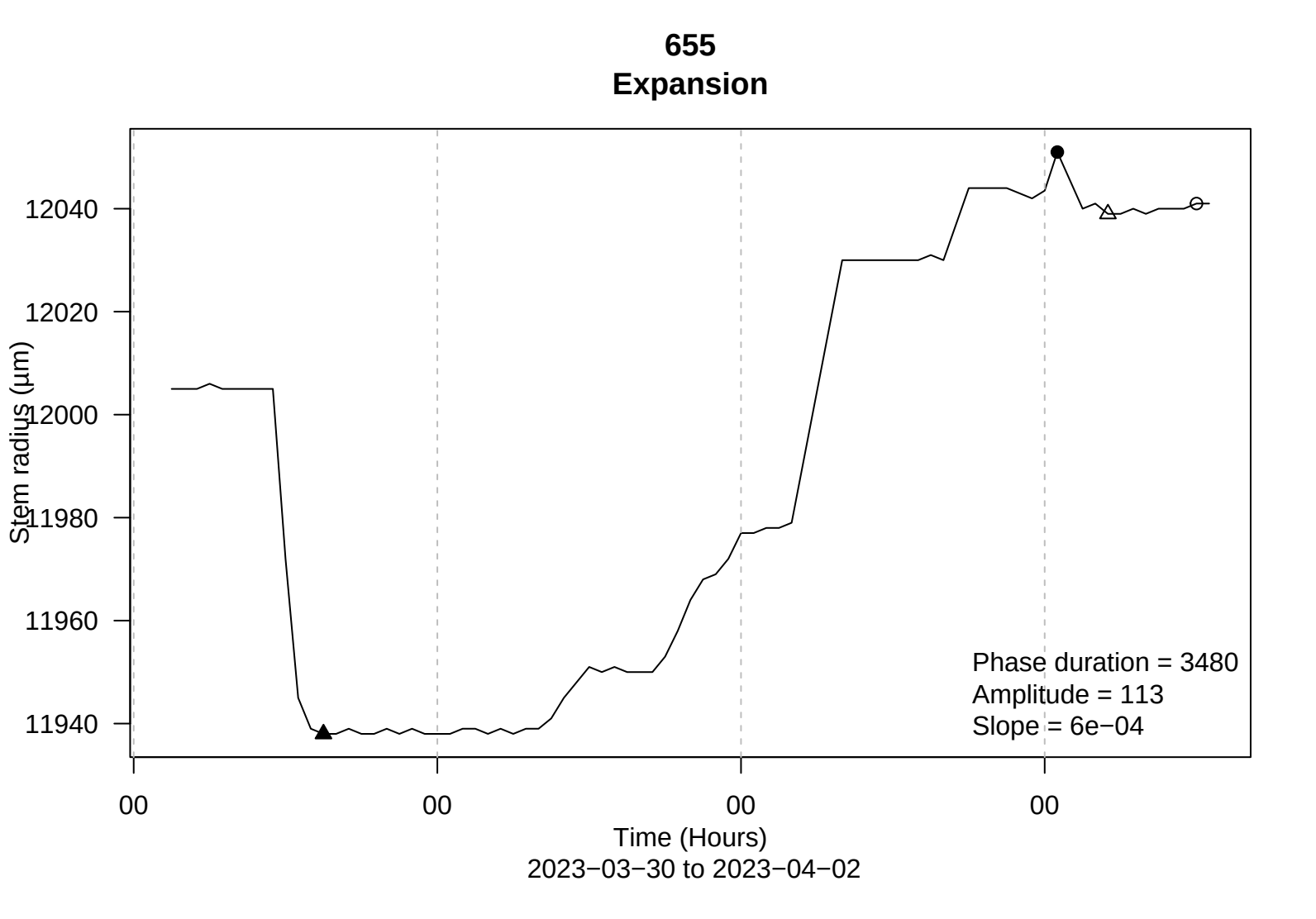

655
Shrinkage
12066
12065
12064
12063
12062
12061
Stem radius (µm)
Phase duration = 300
Amplitude = −5
Slope = −3e−04
06
12
18
00
06
Time (Hours)
2023−03−26 to 2023−03−26

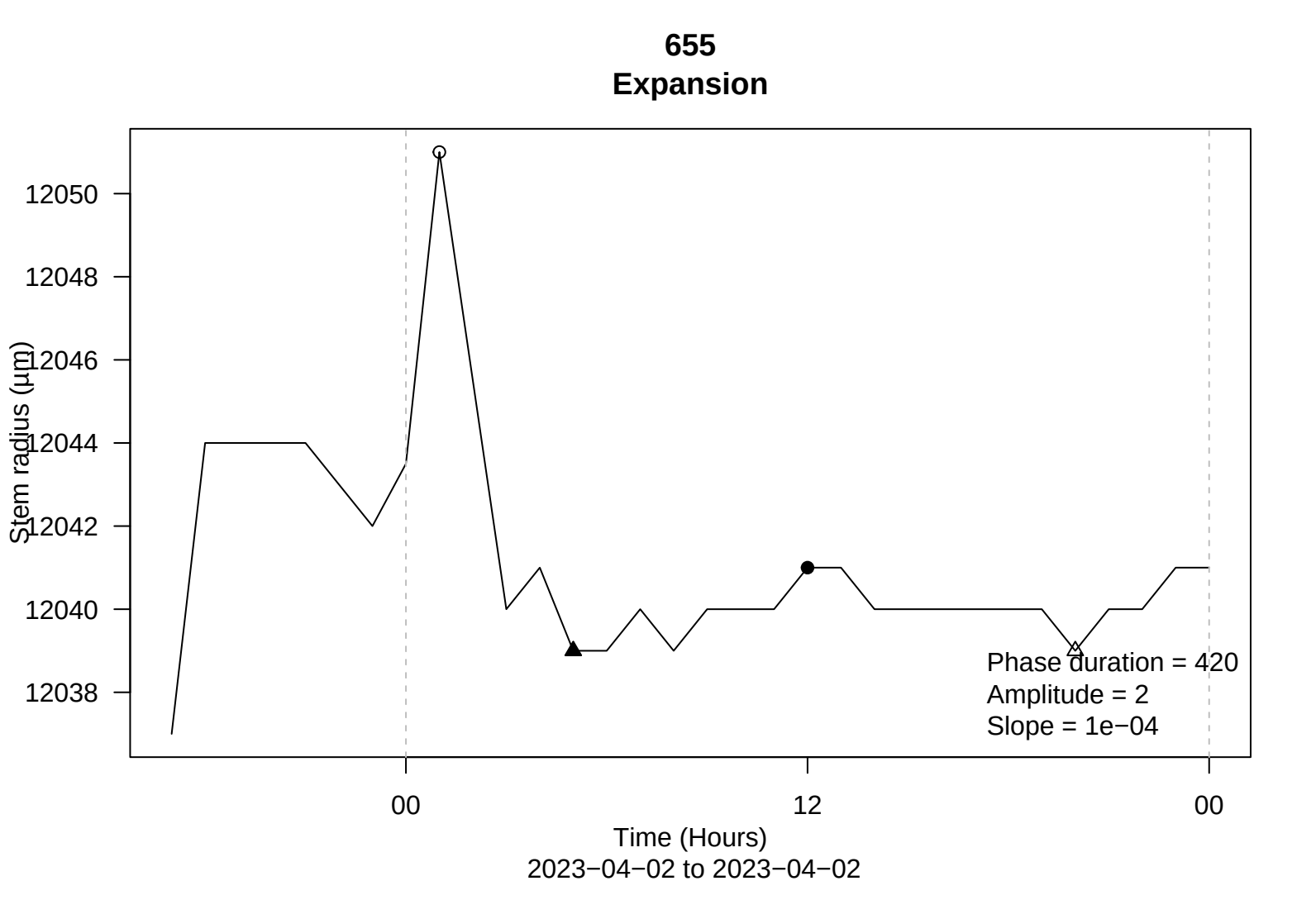

655
Expansion
12065
12060
12055
12050
12045
Stem radius (µm)
Phase duration = 840
Amplitude = 2
Slope = 0
12
00
12
00
Time (Hours)
2023−03−26 to 2023−03−27

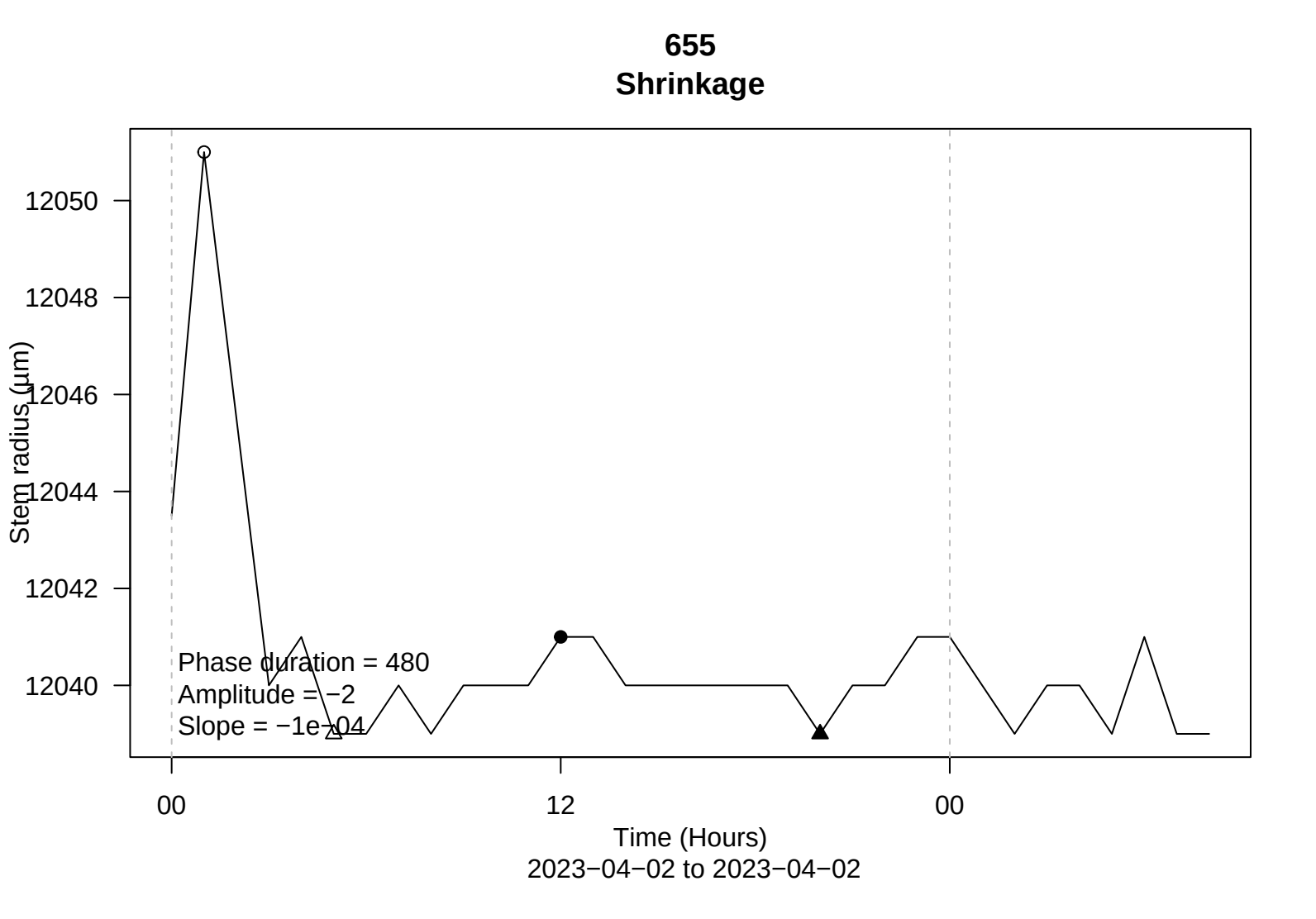

655
Shrinkage
12060
12055
12050
12045
Stem radius (µm)
Phase duration = 480
Amplitude = −18
Slope = −7e−04
00
12
00
Time (Hours)
2023−03−27 to 2023−03−27

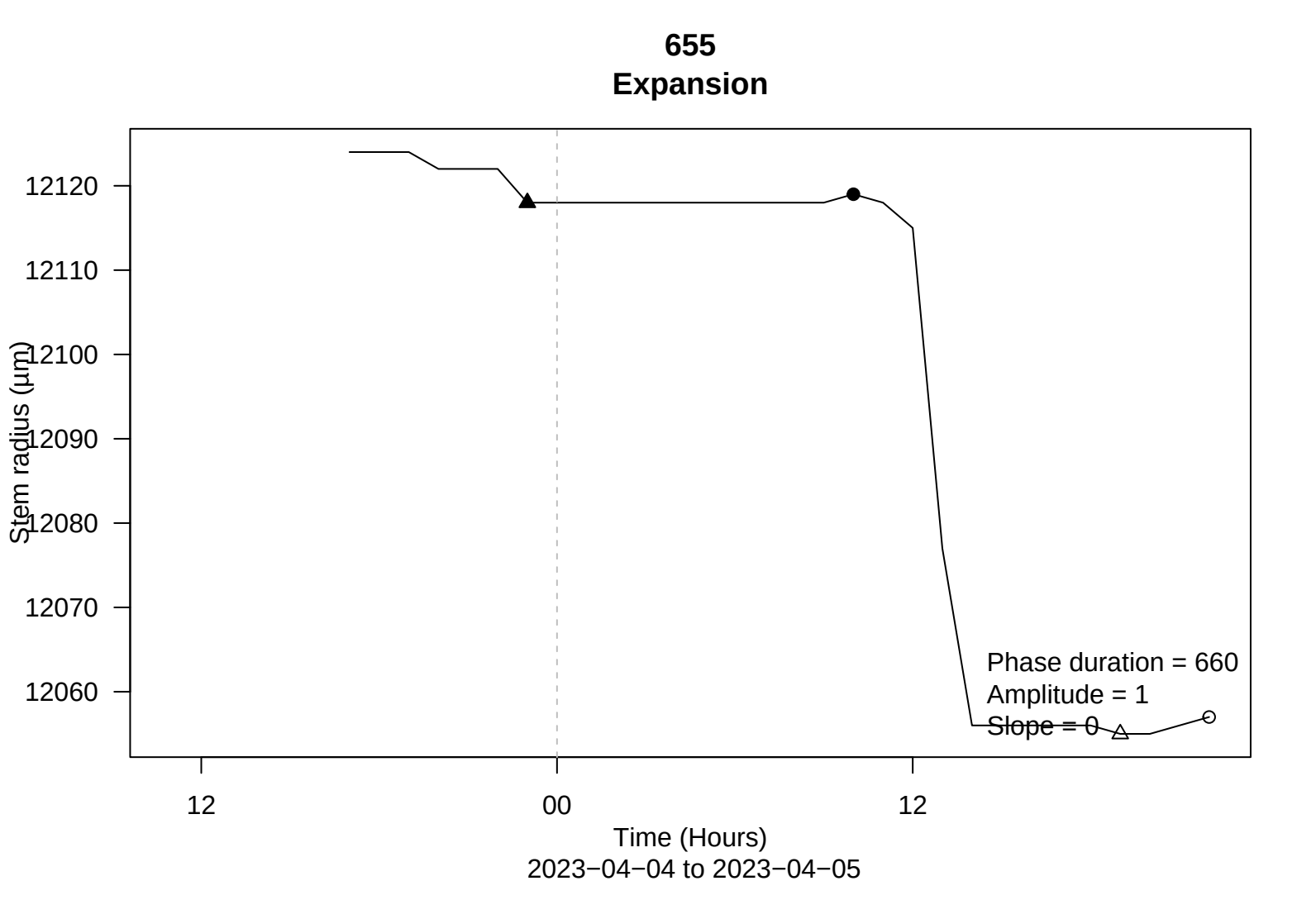

655
Expansion
Stem radius (µm)
12070
12060
12050
12040
12030
12020
12010
Phase duration = 720
Amplitude = 31.5
Slope = 9e−04
12
00
12
00
Time (Hours)
2023−03−29 to 2023−03−29

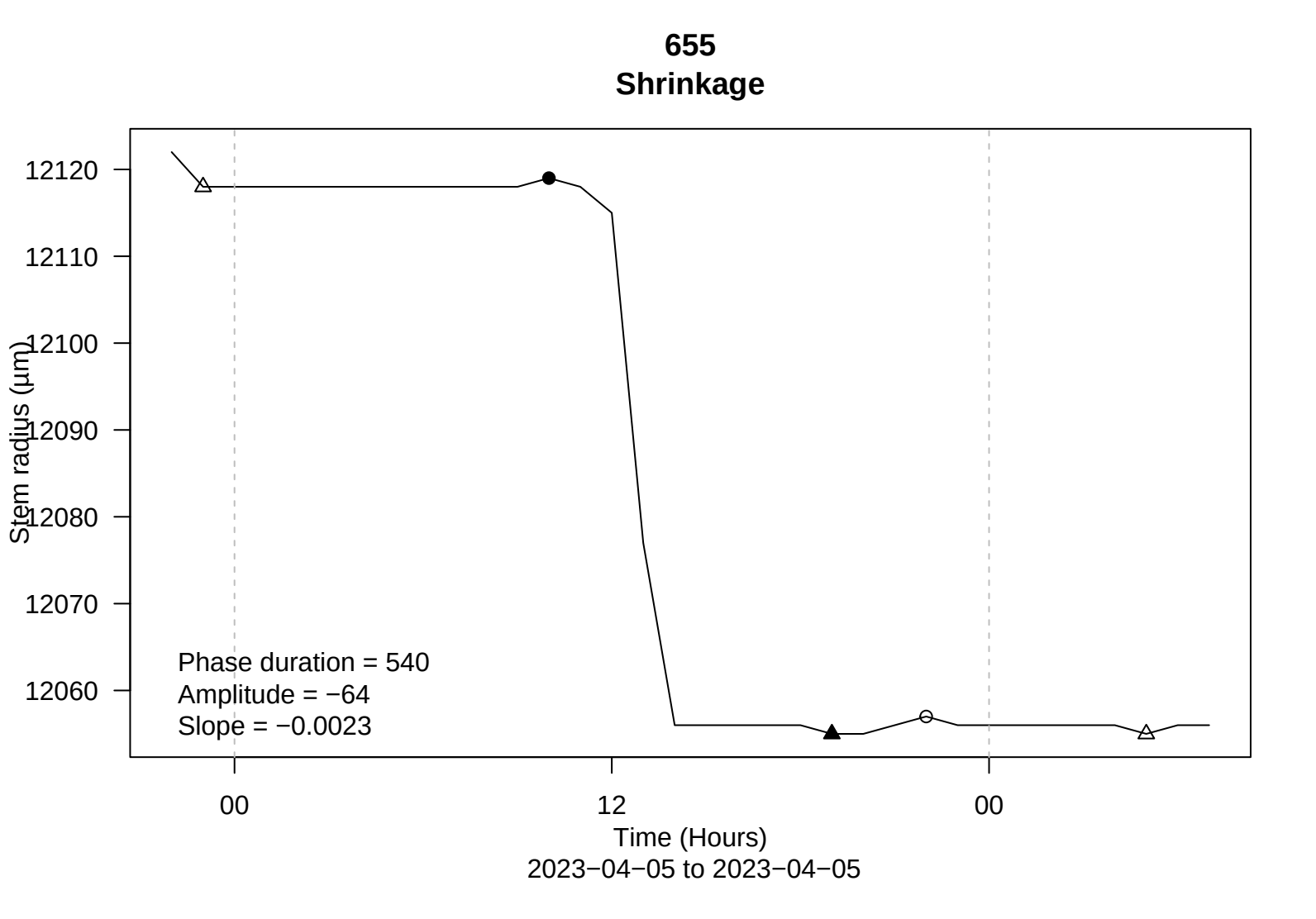

655
Shrinkage
12080
12060
12040
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 1620
Amplitude = −139
Slope = −7e−04
00
12
00
12
00
Time (Hours)
2023−03−29 to 2023−03−30

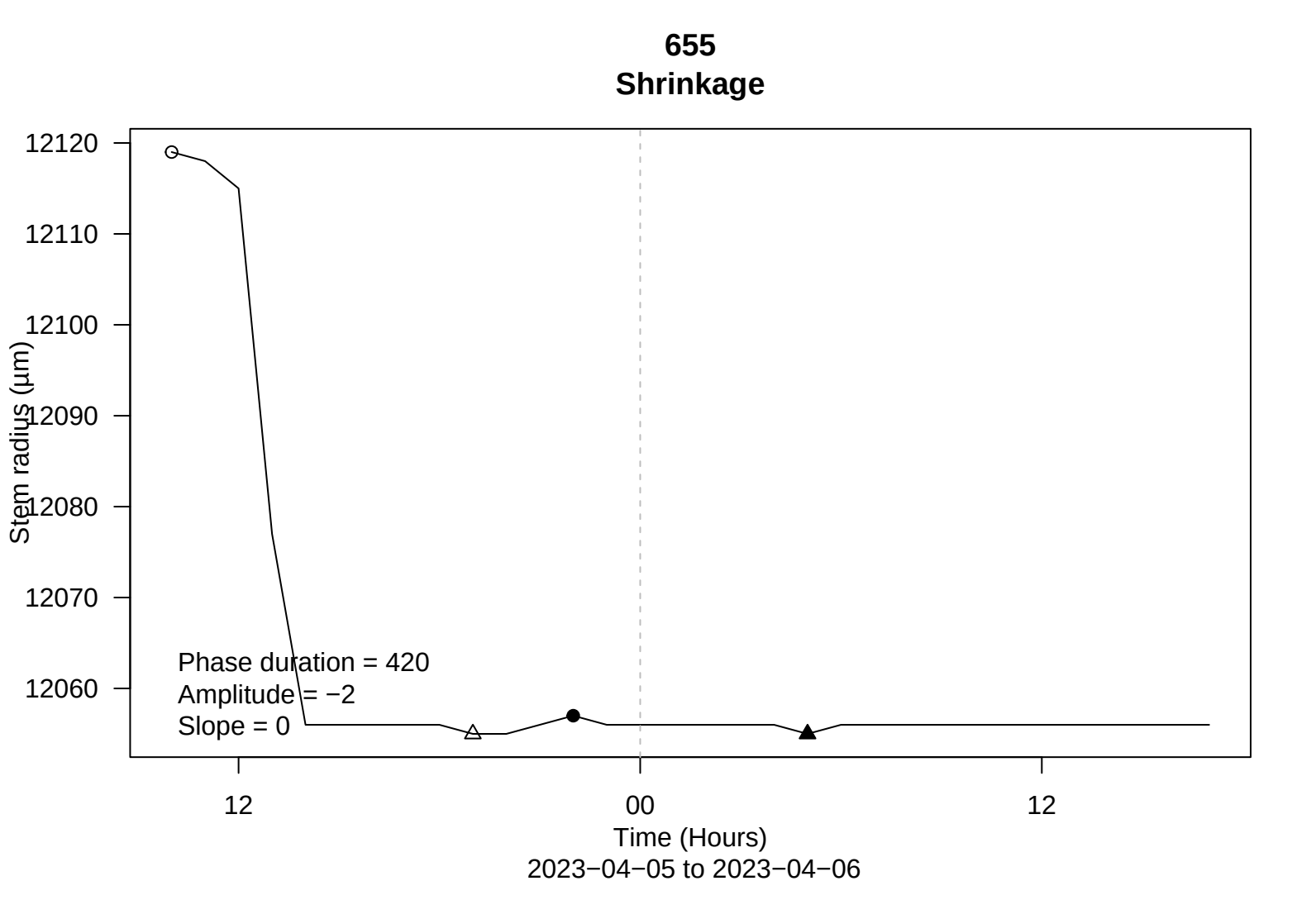

655
Expansion
12040
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 3480
Amplitude = 113
Slope = 6e−04
00
00
00
00
Time (Hours)
2023−03−30 to 2023−04−02

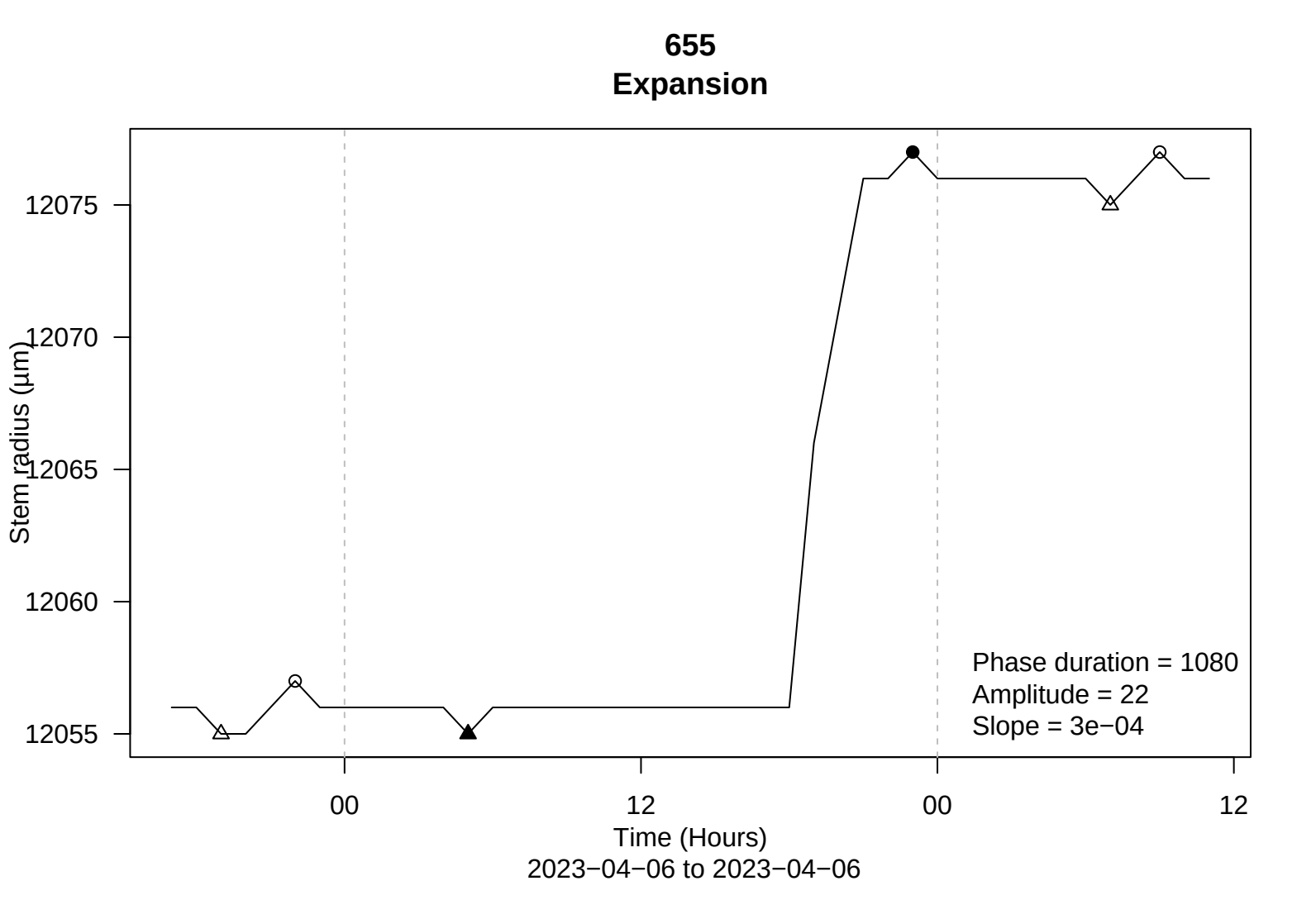

655
Expansion
12050
12048
12046
12044
12042
12040
12038
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 1e−04
00
12
00
Time (Hours)
2023−04−02 to 2023−04−02

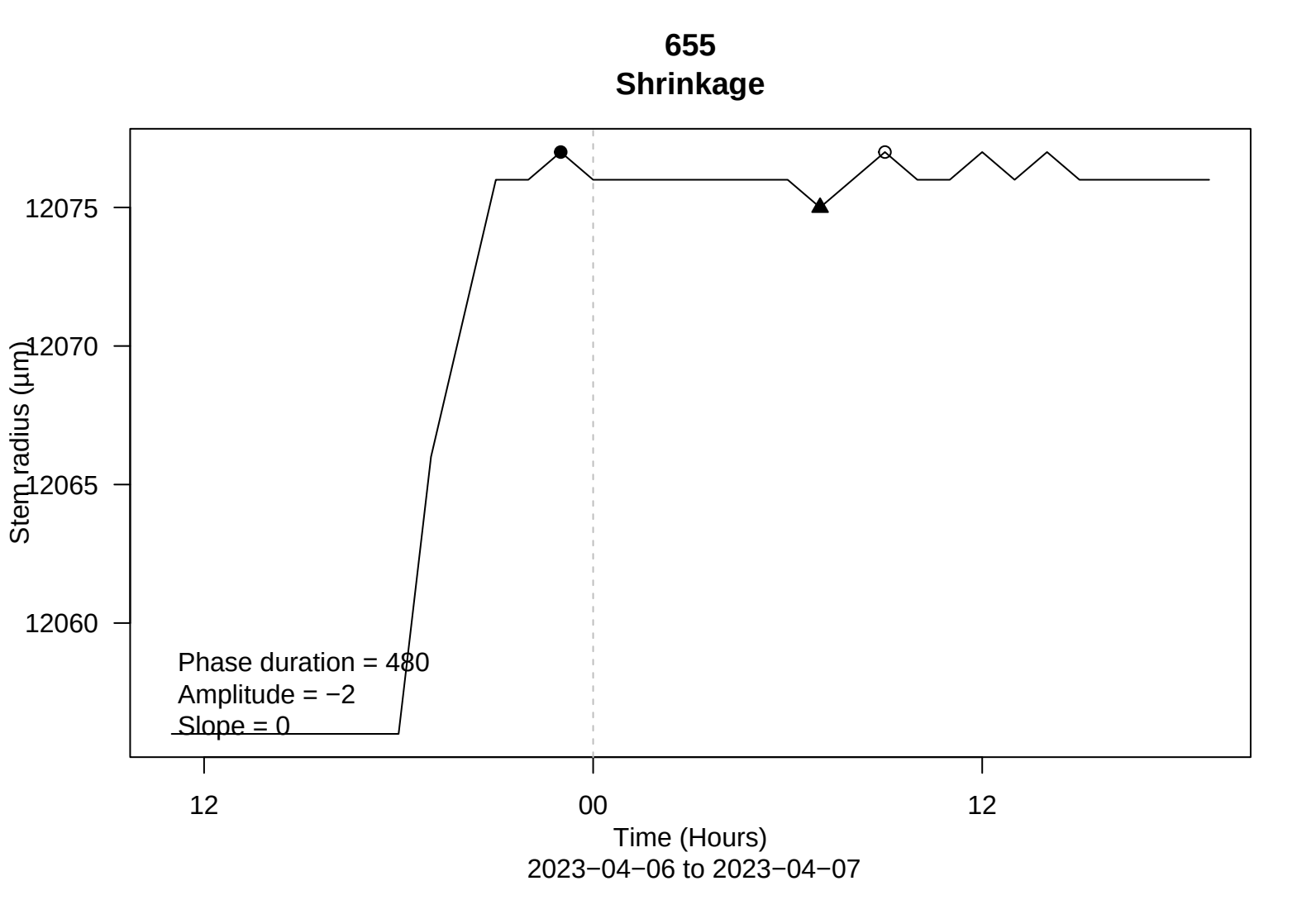

655
Shrinkage
12050
12048
12046
12044
12042
12040
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = −1e−04
00
12
00
Time (Hours)
2023−04−02 to 2023−04−02

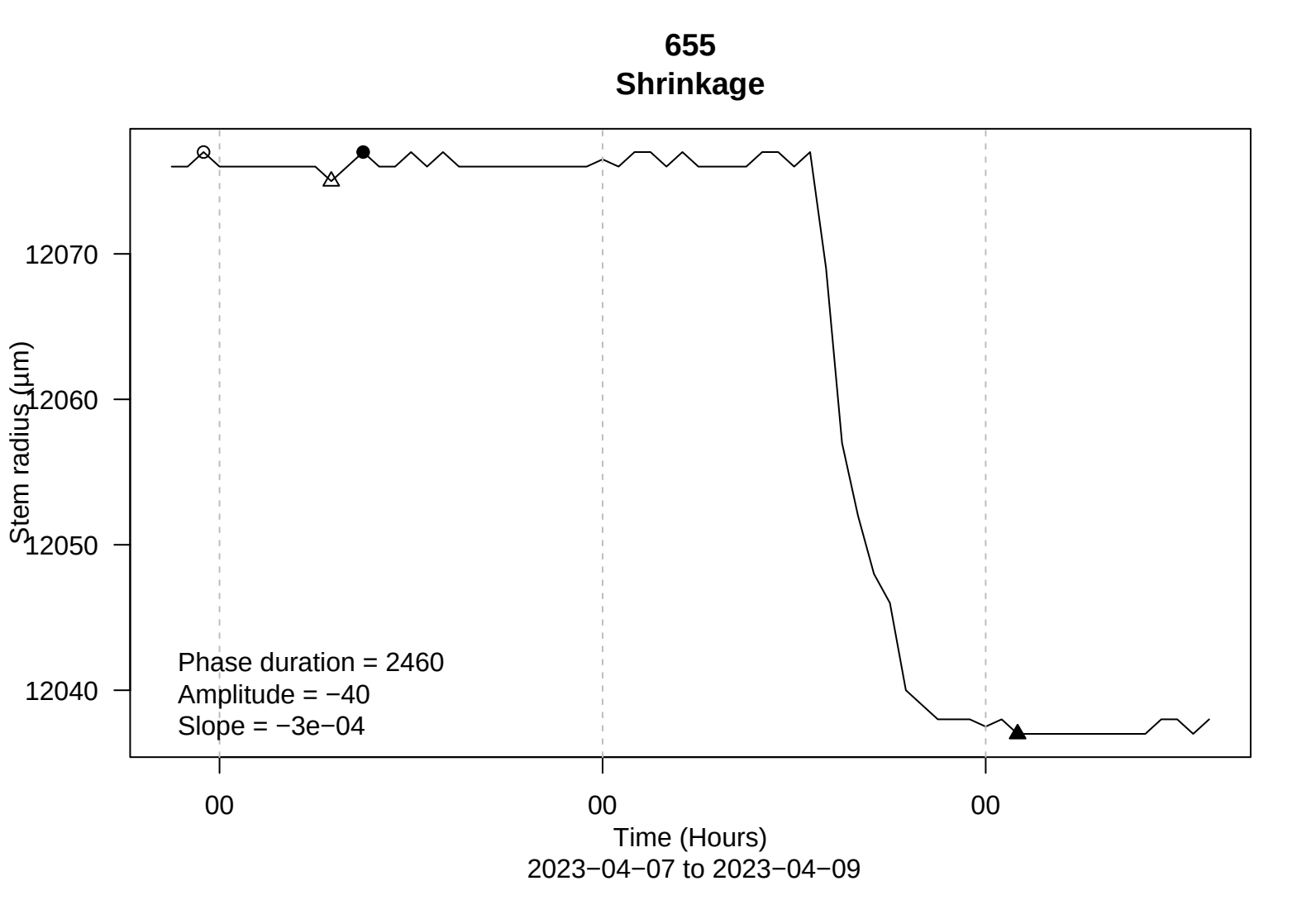

655
Expansion
12120
12110
12100
12090
12080
12070
12060
Stem radius (µm)
Phase duration = 660
Amplitude = 1
Slope = 0
12
00
12
Time (Hours)
2023−04−04 to 2023−04−05

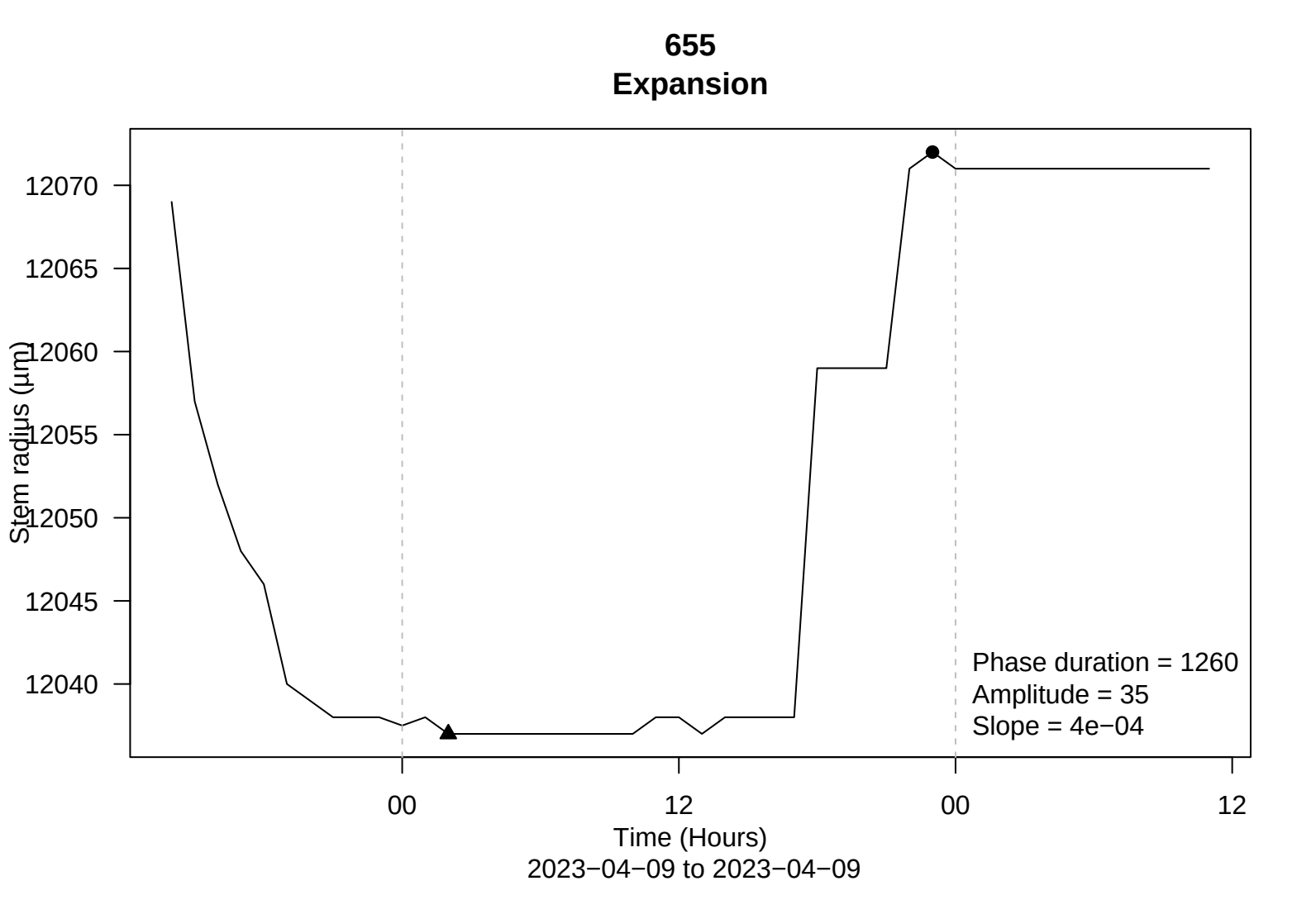

655
Shrinkage
12120
12110
12100
12090
12080
12070
12060
Stem radius (µm)
Phase duration = 540
Amplitude = −64
Slope = −0.0023
00
12
00
Time (Hours)
2023−04−05 to 2023−04−05

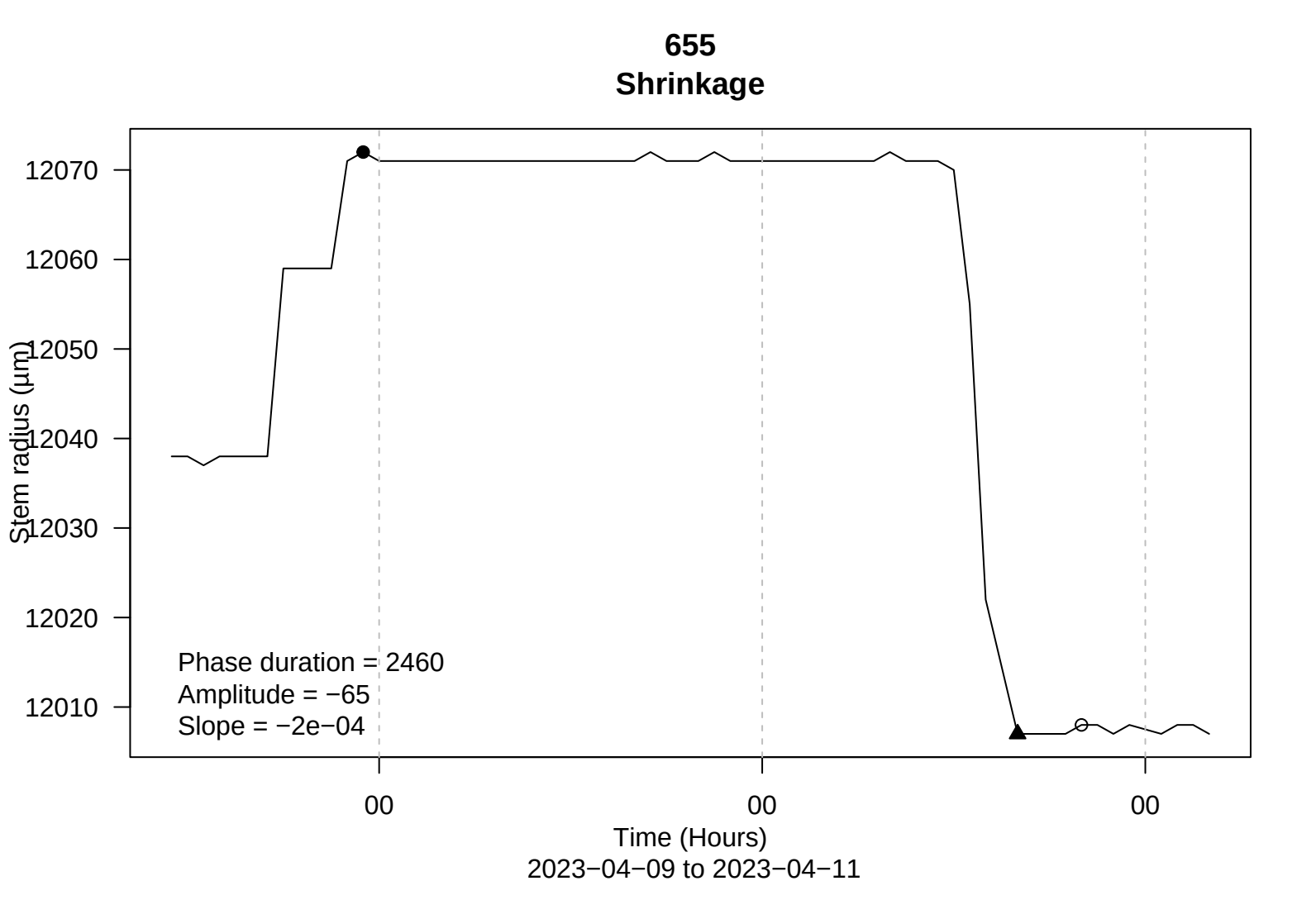

655
Shrinkage
12120
12110
12100
12090
12080
12070
12060
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−04−05 to 2023−04−06

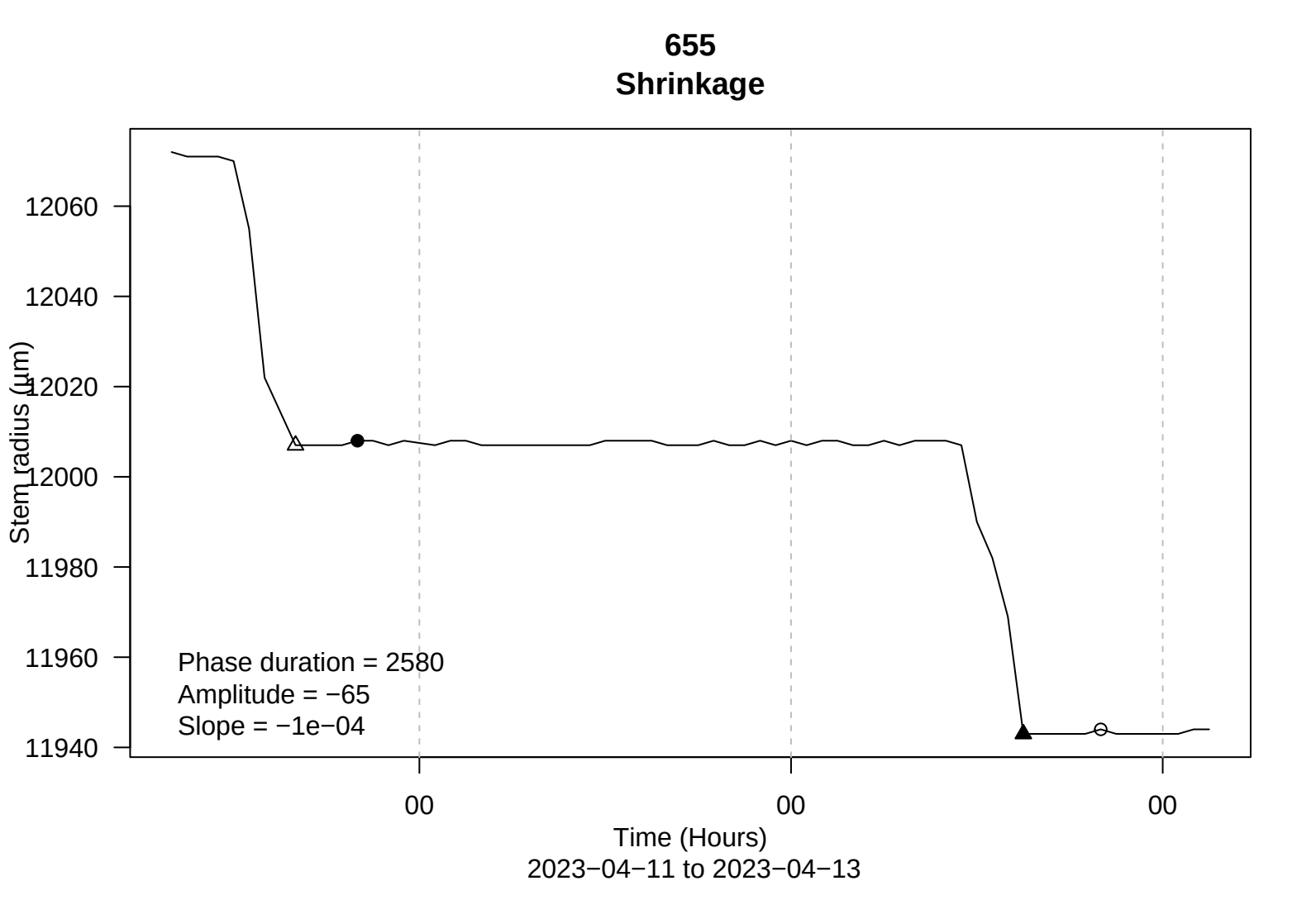

655
Expansion
12075
12070
12065
12060
12055
Stem radius (µm)
00
12
00
12
Time (Hours)
2023−04−06 to 2023−04−06
Phase duration = 1080
Amplitude = 22
Slope = 3e−04

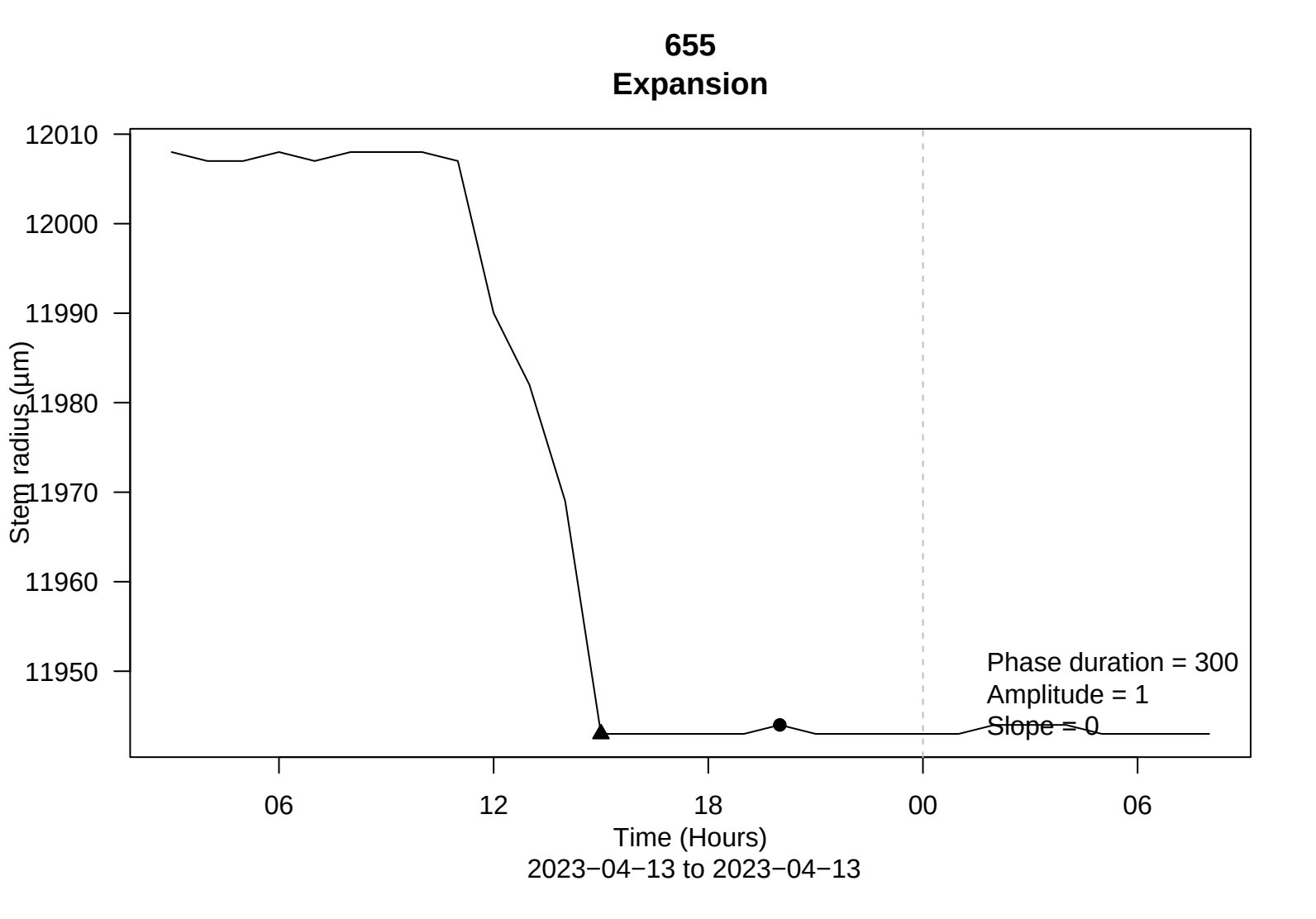

655
Shrinkage
12075
12070
12065
12060
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−04−06 to 2023−04−07

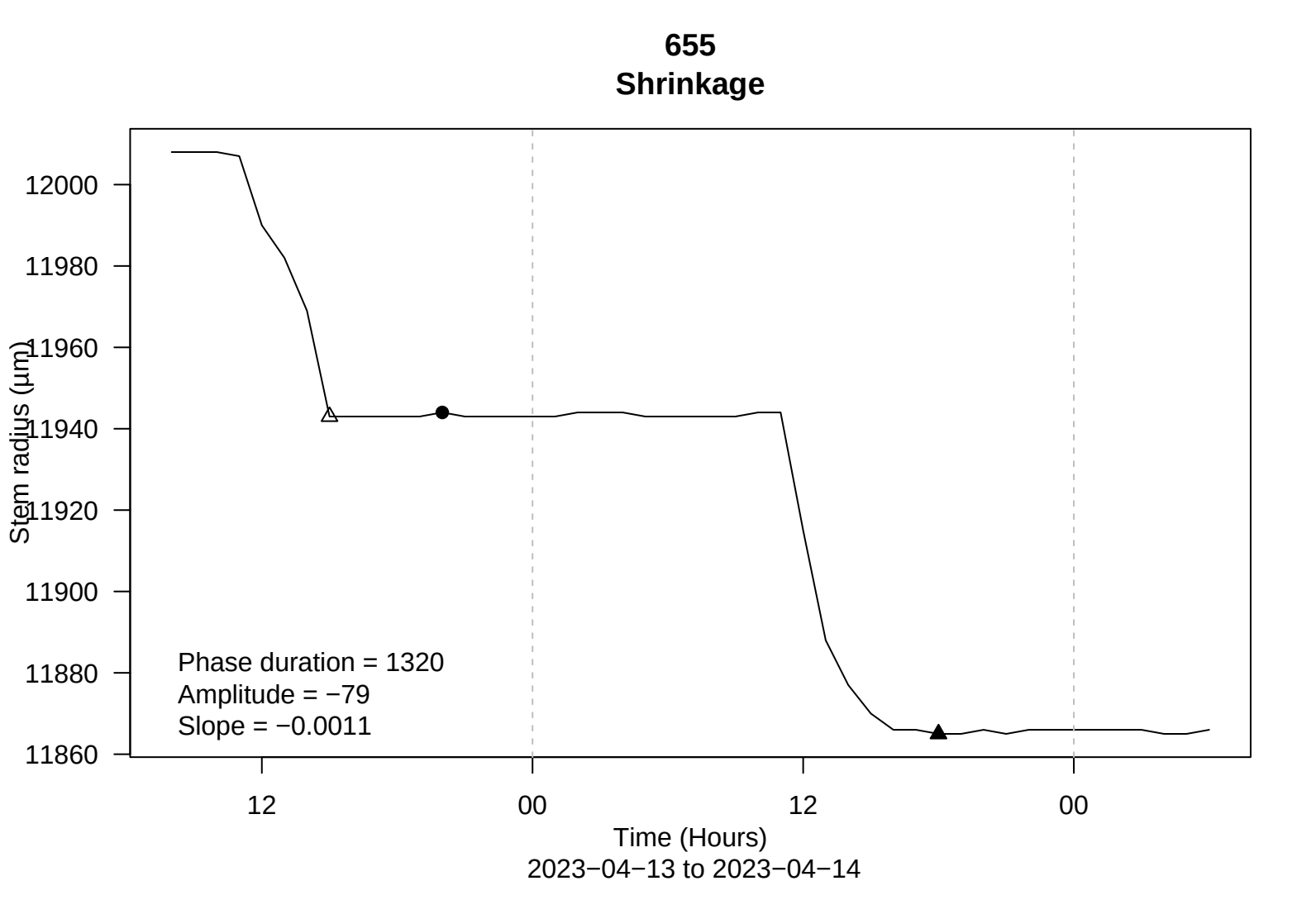

655
Shrinkage
12070
12060
12050
12040
Stem radius (µm)
Phase duration = 2460
Amplitude = −40
Slope = −3e−04
00
00
00
Time (Hours)
2023−04−07 to 2023−04−09

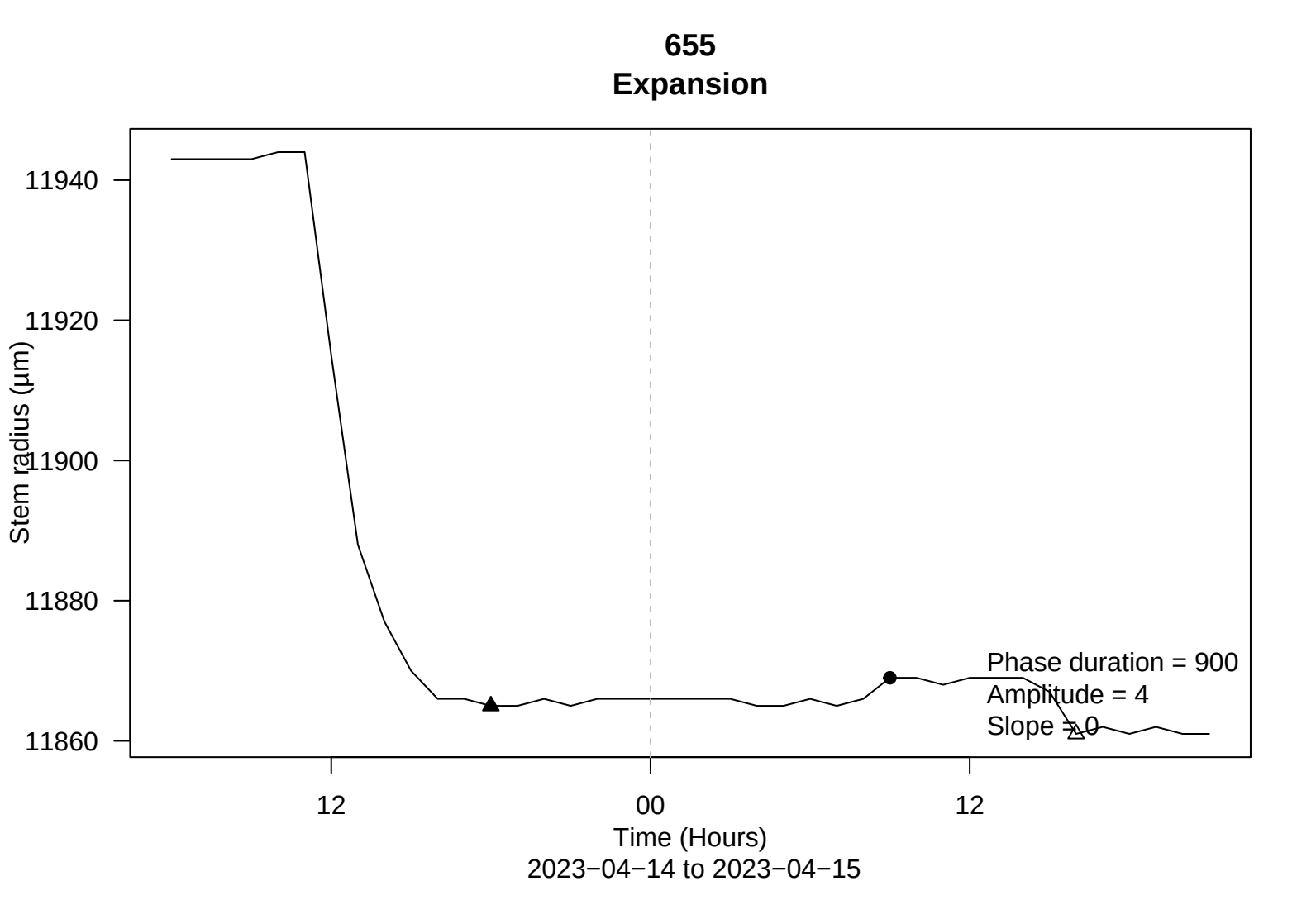

655
Expansion
12070
12065
12060
12055
12050
12045
12040
Stem radius (µm)
Phase duration = 1260
Amplitude = 35
Slope = 4e−04
00
12
00
12
Time (Hours)
2023−04−09 to 2023−04−09

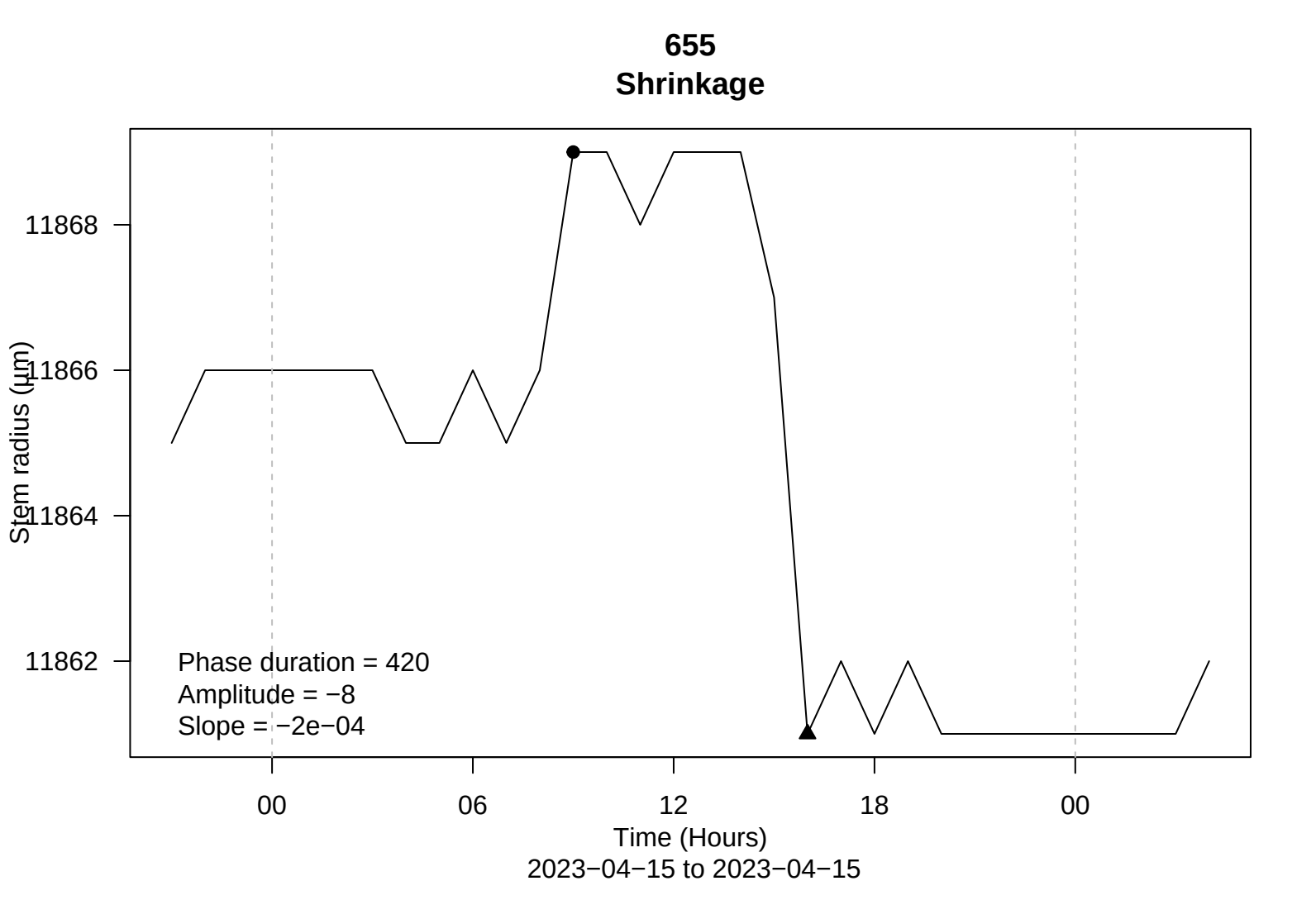

655
Shrinkage
12070
12060
12050
12040
12030
12020
12010
Stem radius (µm)
Phase duration = 2460
Amplitude = −65
Slope = −2e−04
00
00
00
Time (Hours)
2023−04−09 to 2023−04−11

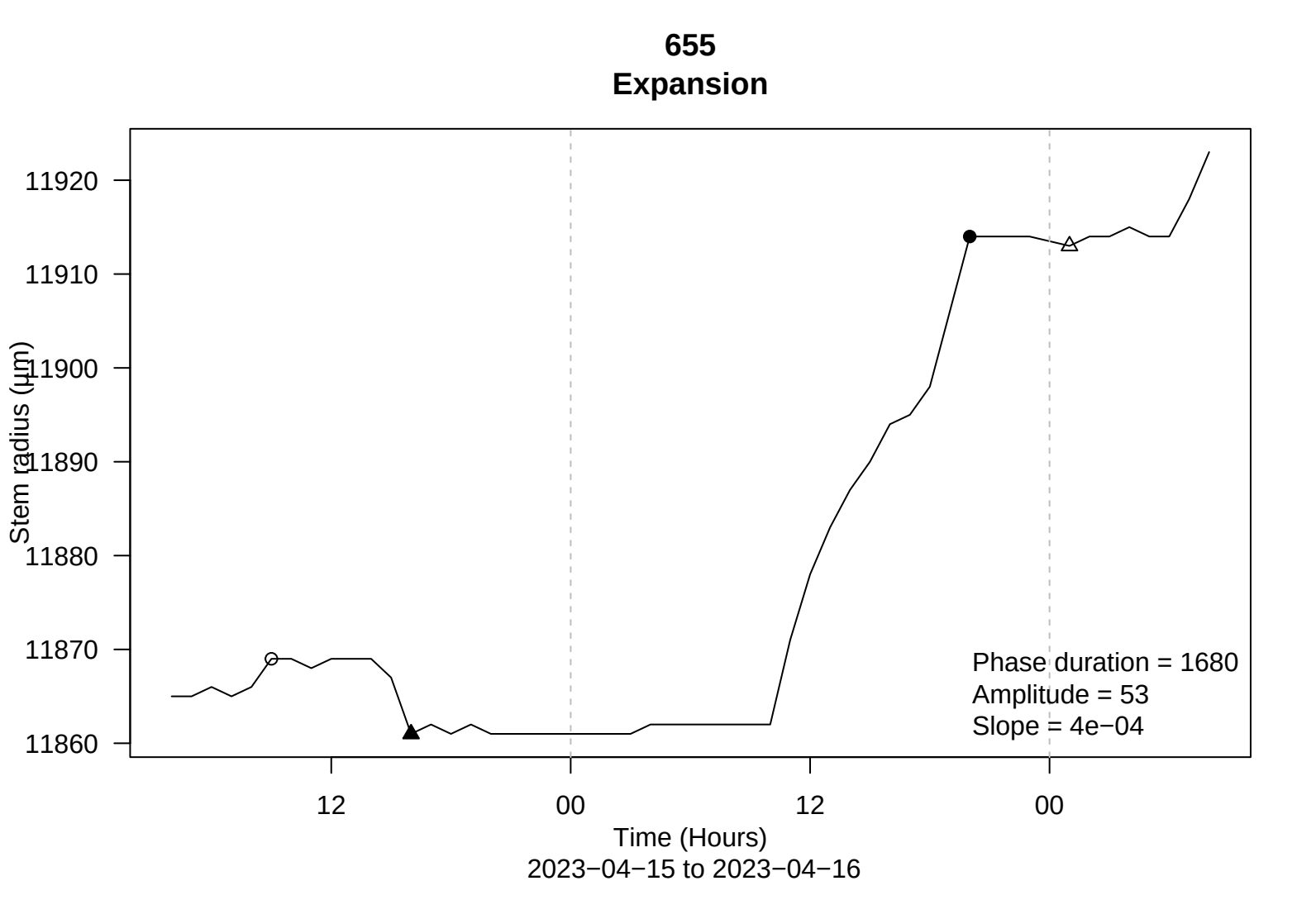

655
Shrinkage
12060
12040
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 2580
Amplitude = −65
Slope = −1e−04
00
00
00
Time (Hours)
2023−04−11 to 2023−04−13

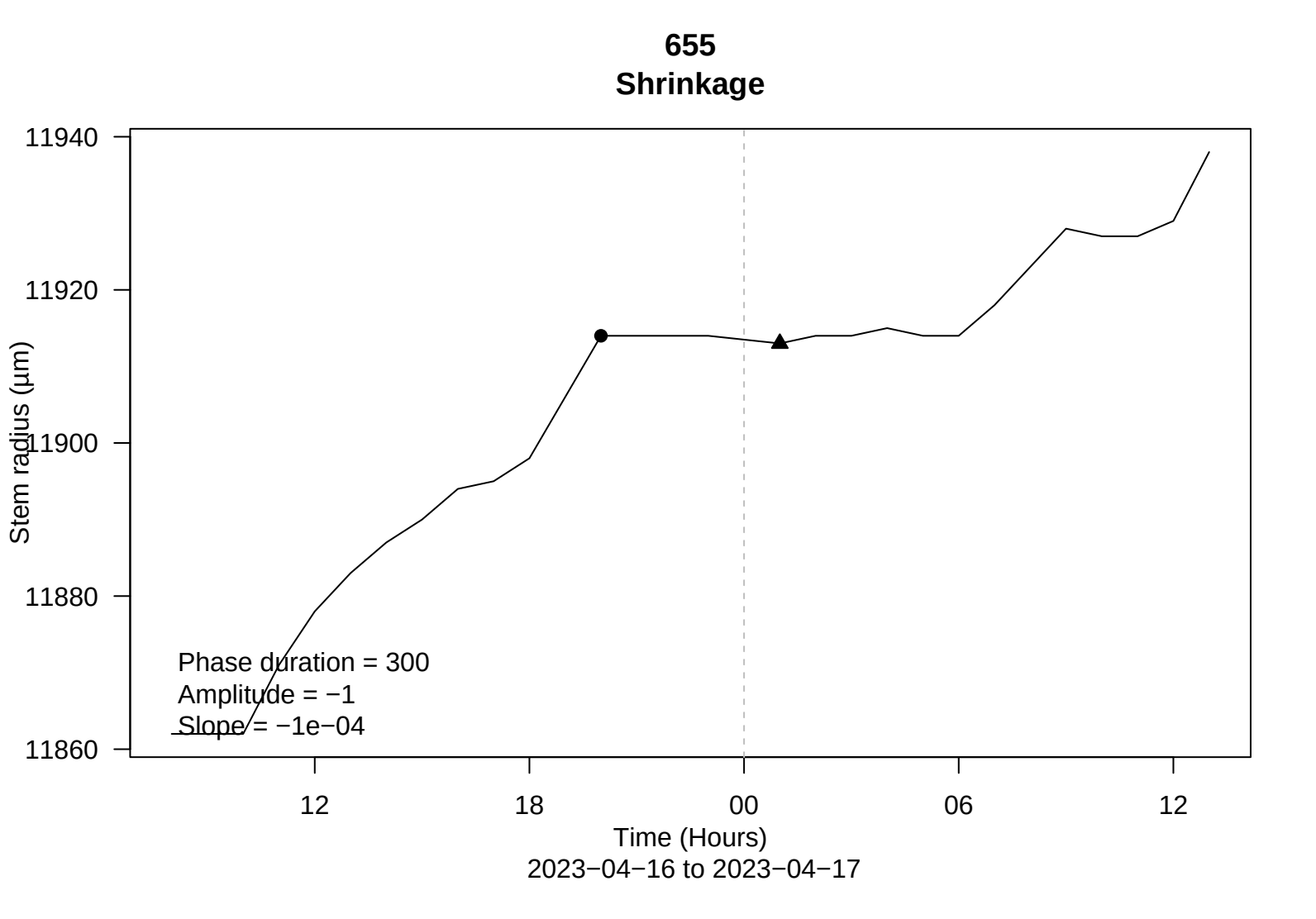

655
Expansion
12010
12000
11990
11980
11970
11960
11950
Stem radius (µm)
Phase duration = 300
Amplitude = 1
Slope = 0
06
12
18
00
06
Time (Hours)
2023−04−13 to 2023−04−13

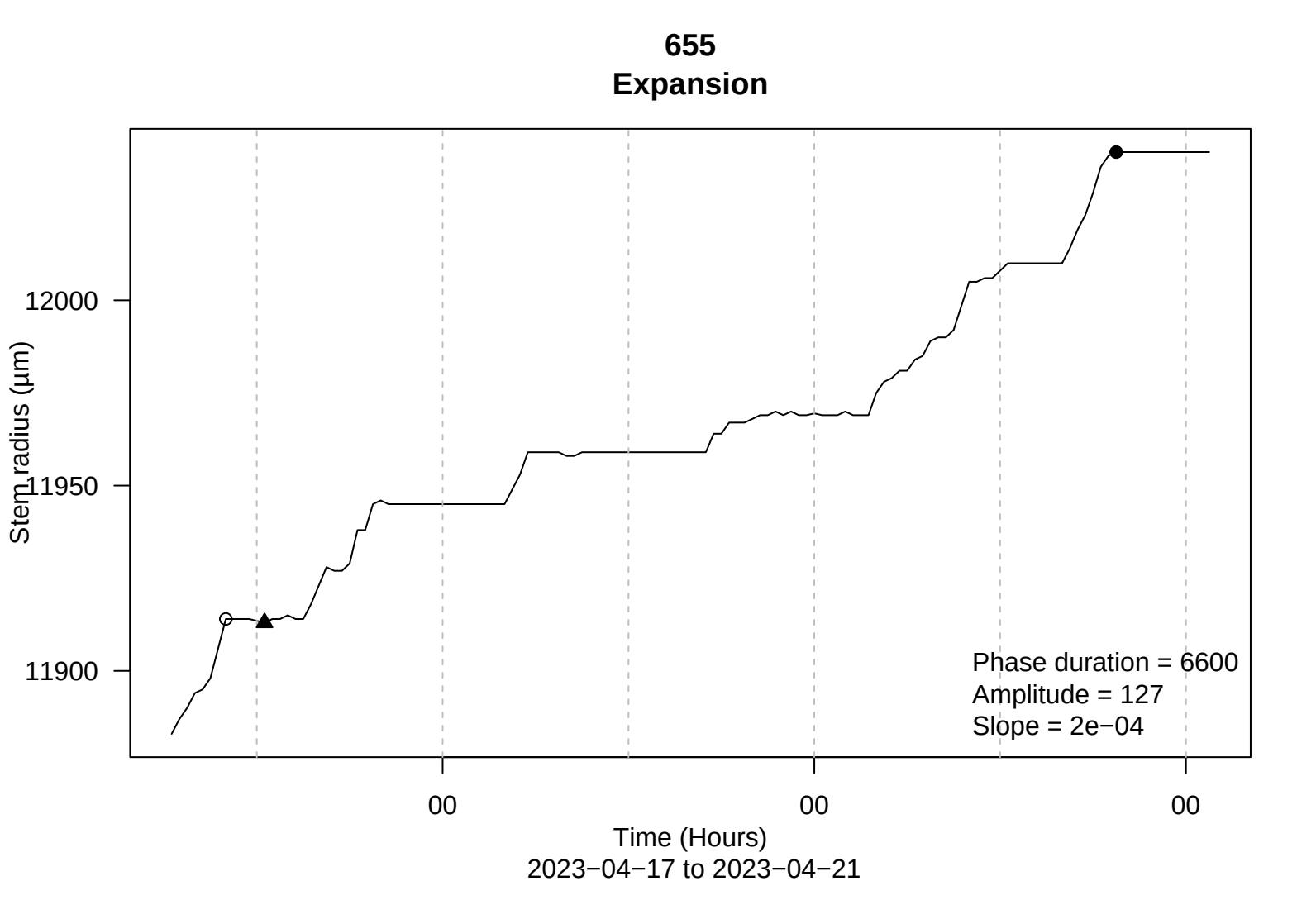

655
Shrinkage
12000
11980
11960
11940
11920
11900
11880
11860
Stem radius (µm)
Phase duration = 1320
Amplitude = −79
Slope = −0.0011
12
00
12
00
Time (Hours)
2023−04−13 to 2023−04−14

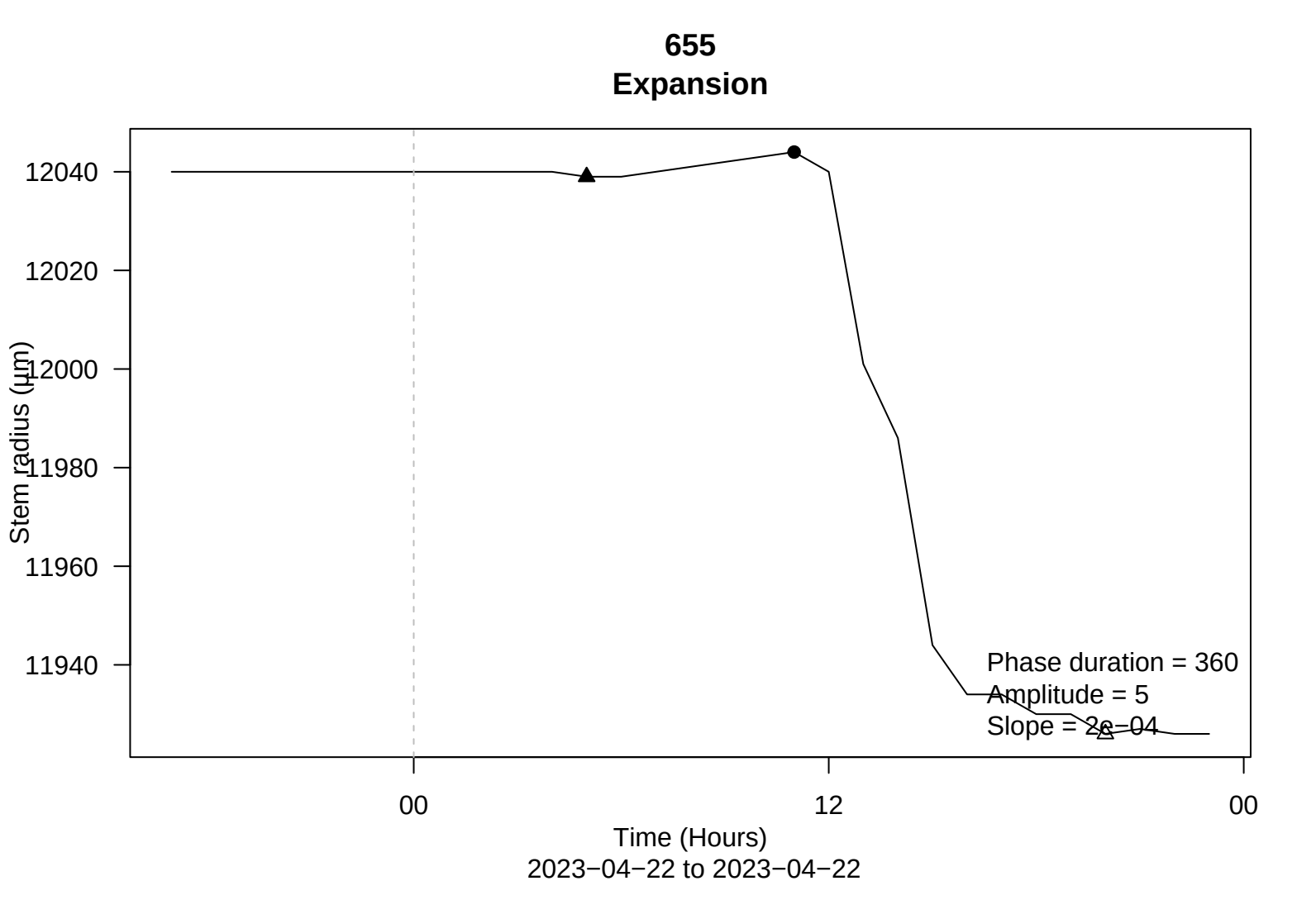

655
Expansion
11940
11920
11900
11880
11860
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−14 to 2023−04−15
Phase duration = 900
Amplitude = 4
Slope = 0

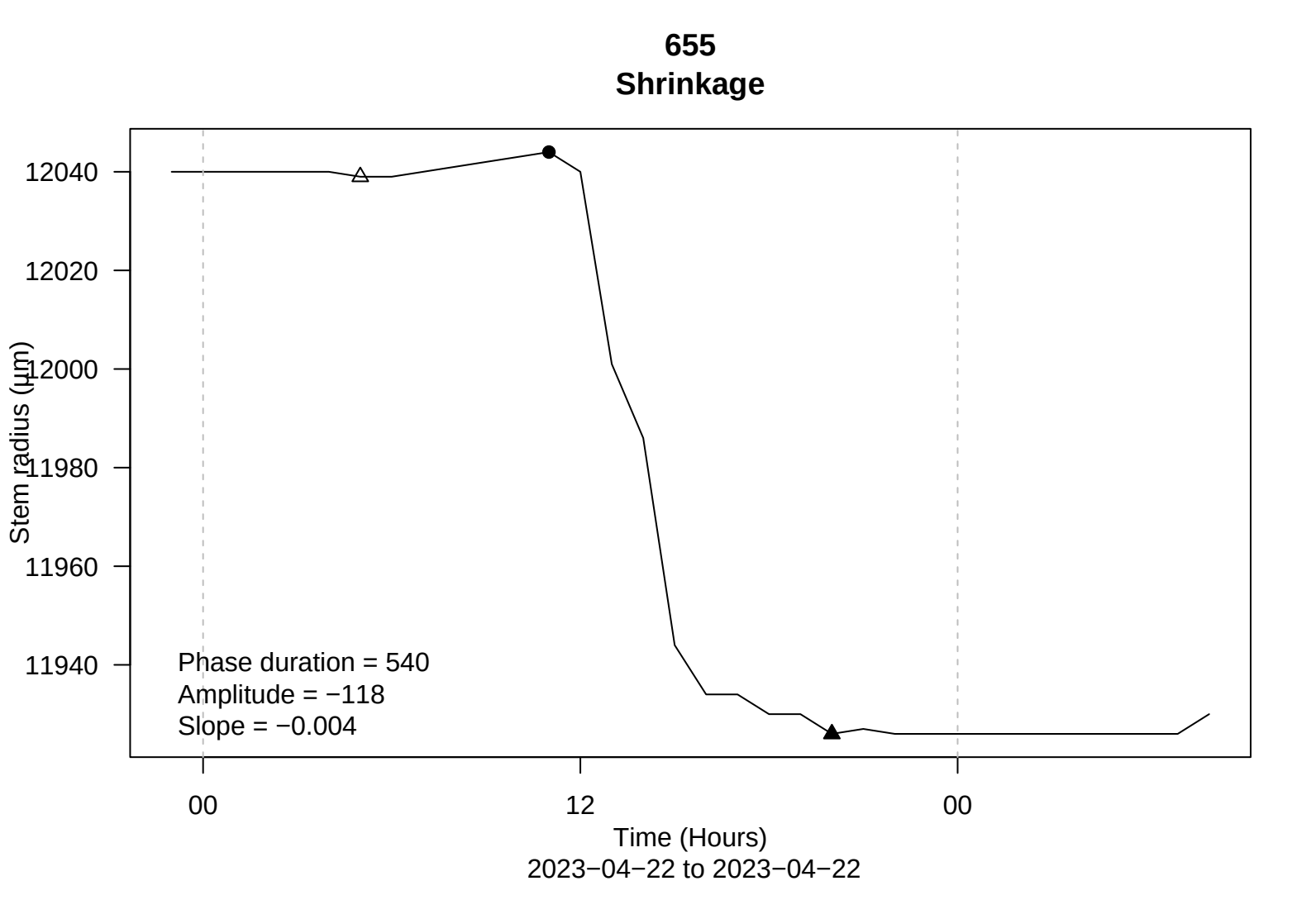

655
Shrinkage
11868
11866
11864
11862
Stem radius (µm)
Phase duration = 420
Amplitude = −8
Slope = −2e−04
00
06
12
18
00
Time (Hours)
2023−04−15 to 2023−04−15

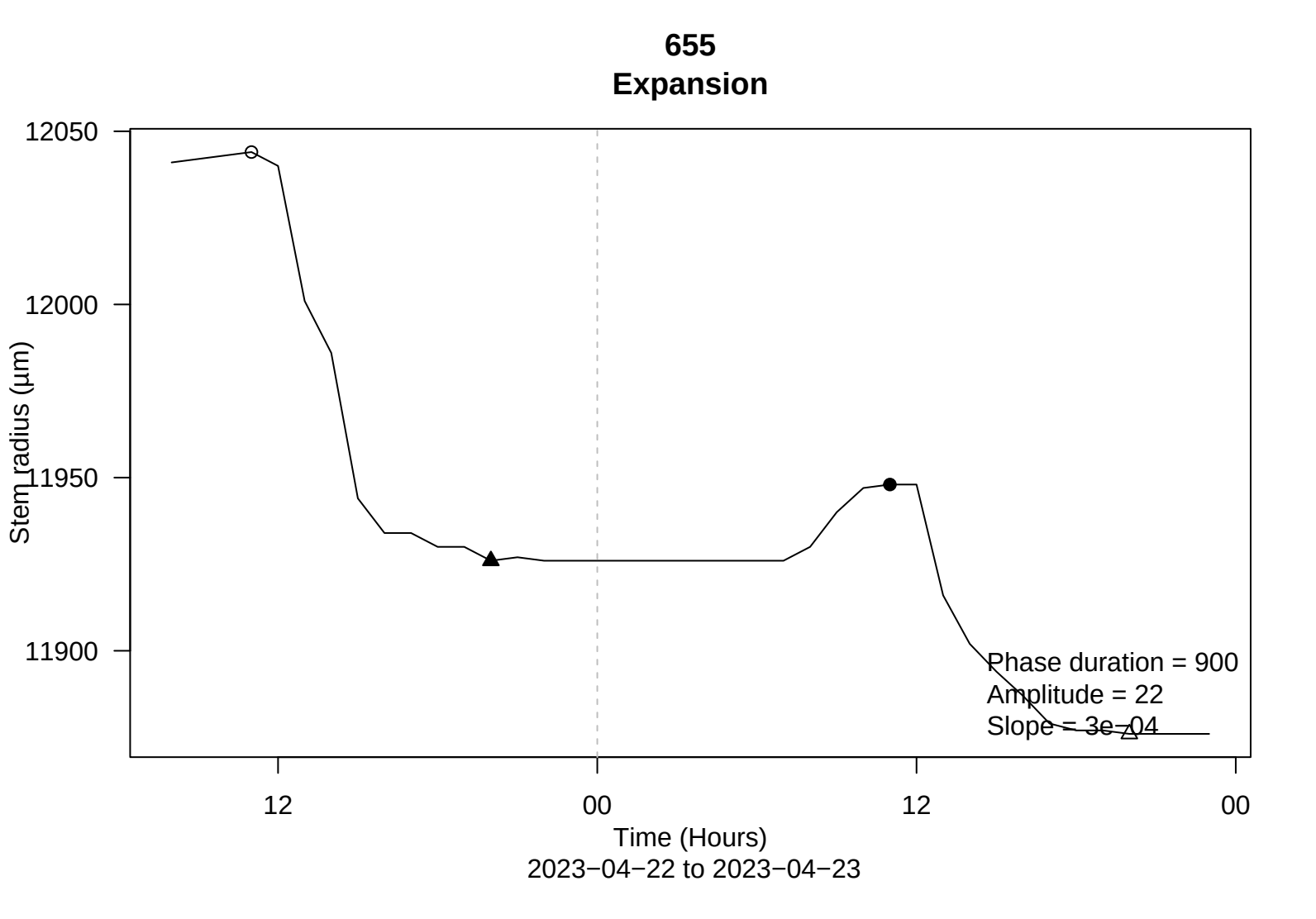

655
Expansion
11920
11910
11900
11890
11880
11870
11860
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−04−15 to 2023−04−16
Phase duration = 1680
Amplitude = 53
Slope = 4e−04

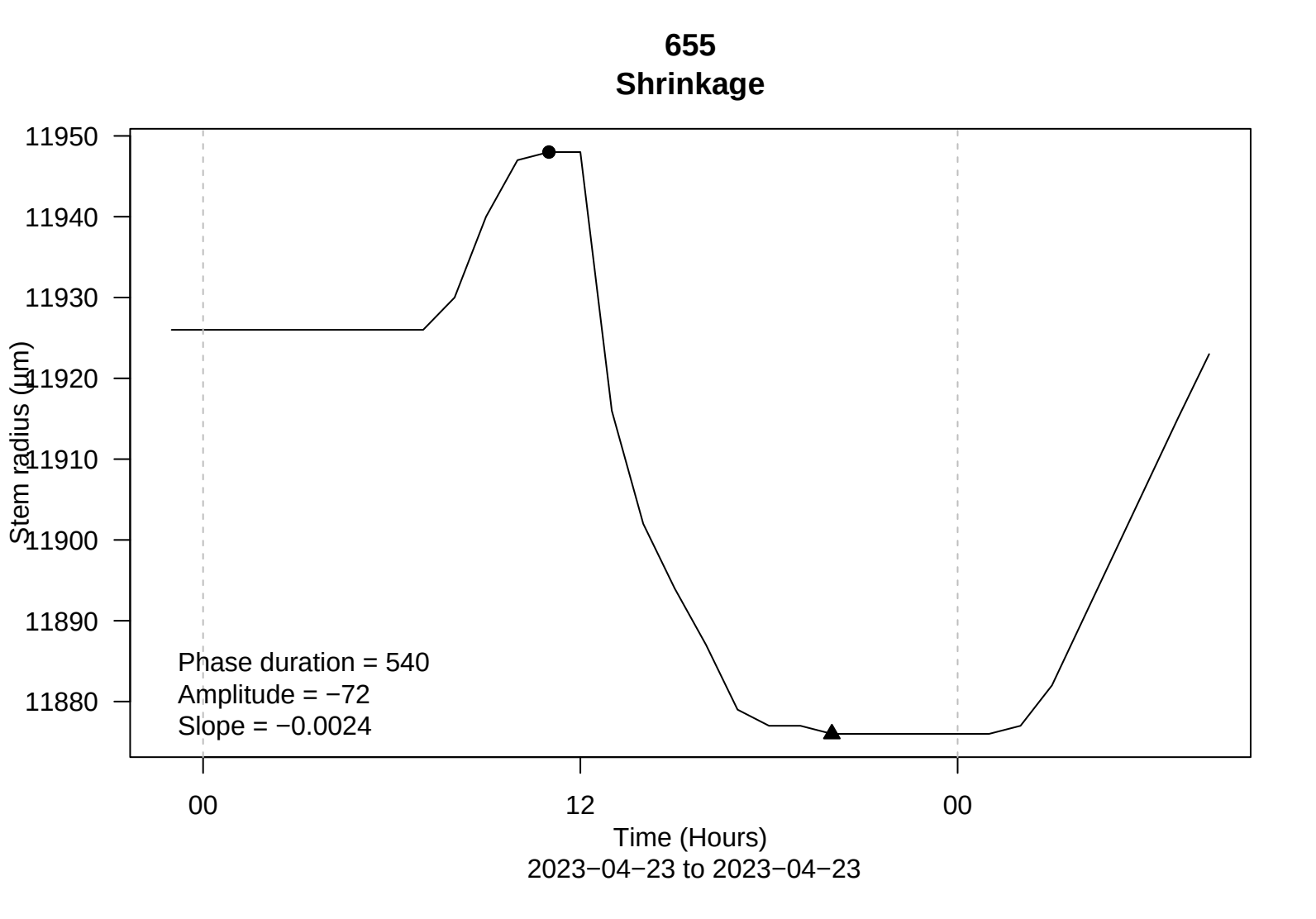

655
Shrinkage
11940
11920
11900
11880
11860
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = −1e−04
12
18
00
06
12
Time (Hours)
2023−04−16 to 2023−04−17

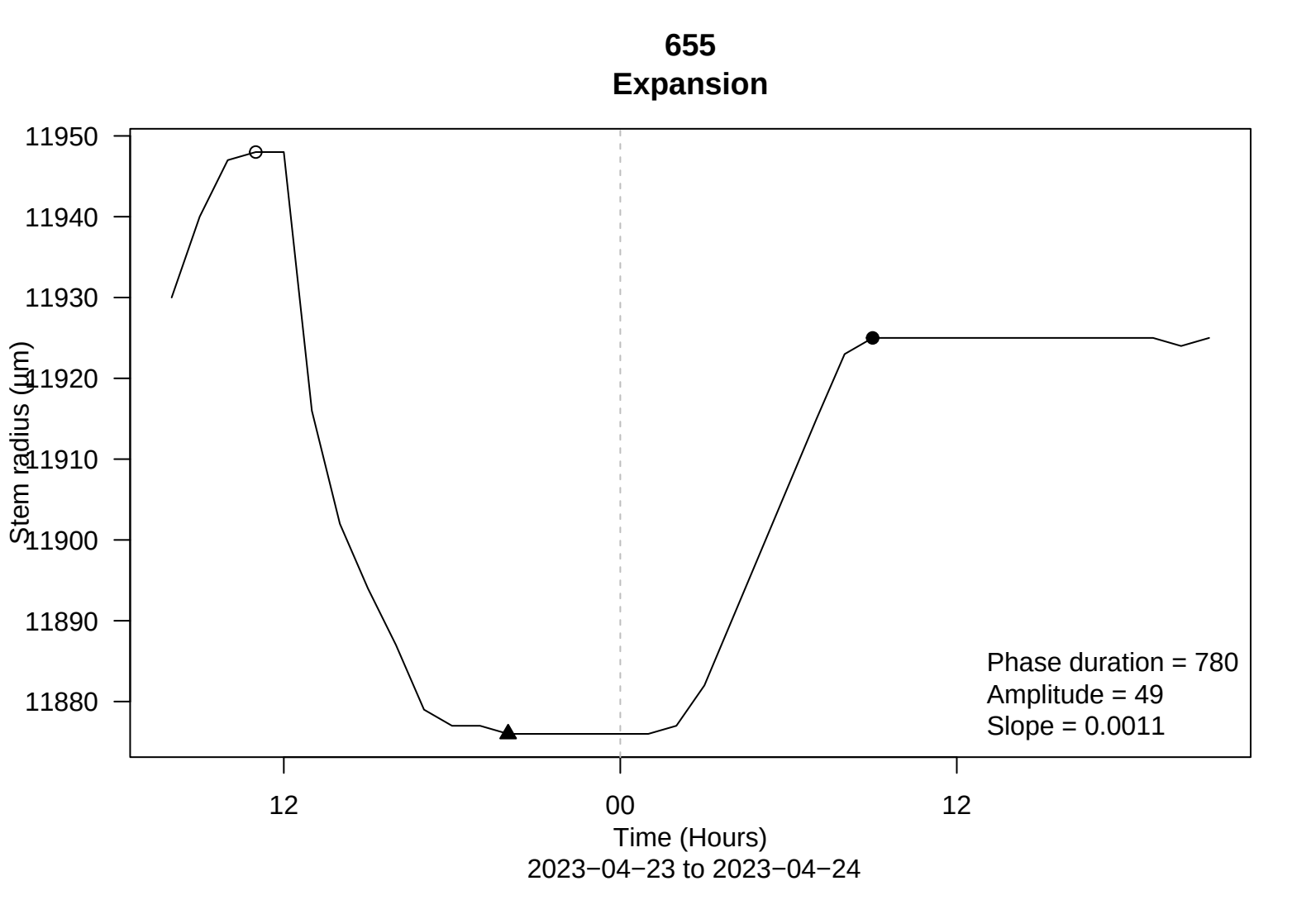

655
Expansion
12000
11950
11900
Stem radius (µm)
Phase duration = 6600
Amplitude = 127
Slope = 2e−04
00
00
00
Time (Hours)
2023−04−17 to 2023−04−21

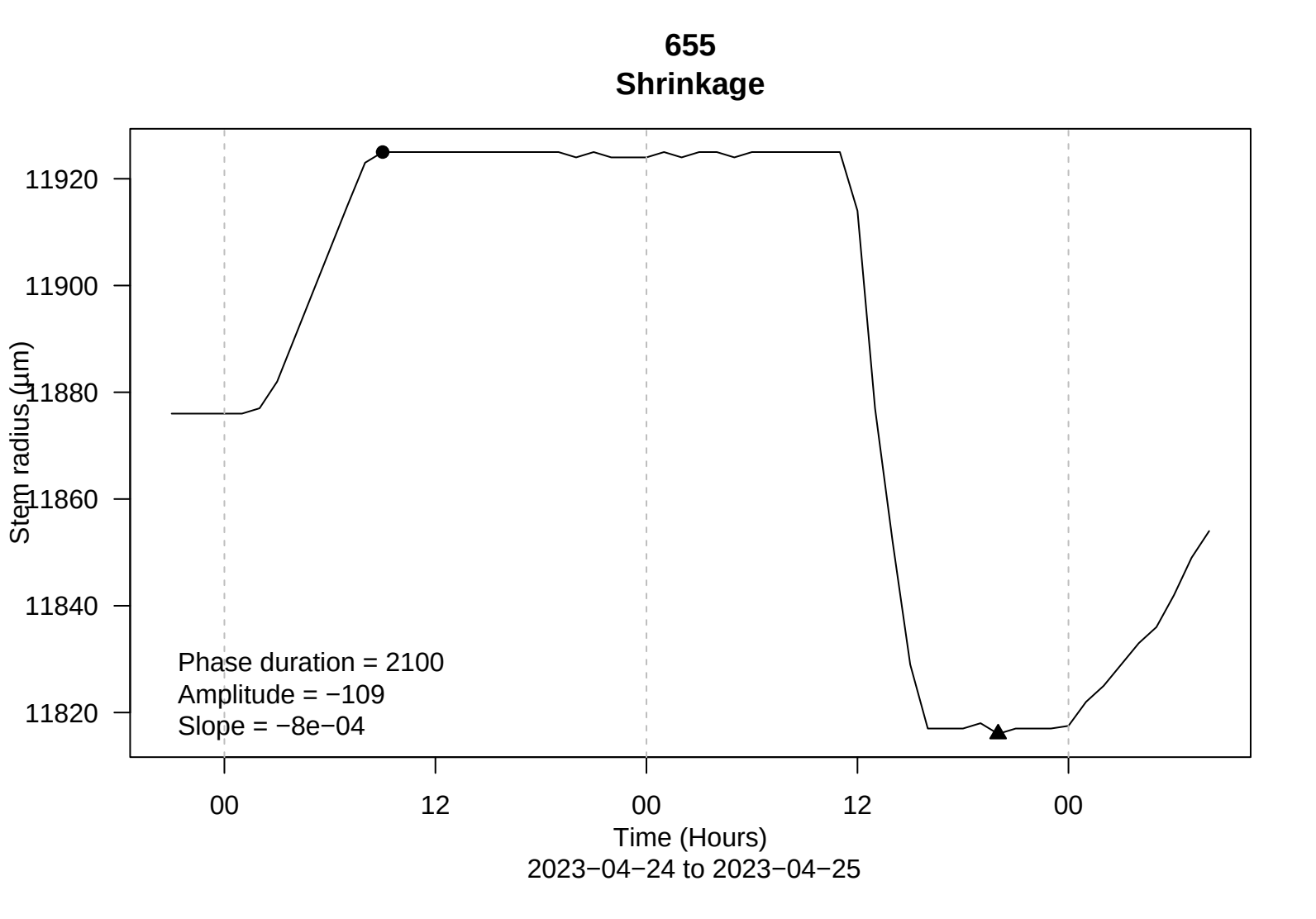

655
Expansion
12040
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 360
Amplitude = 5
Slope = 2e−04
00
12
00
Time (Hours)
2023−04−22 to 2023−04−22

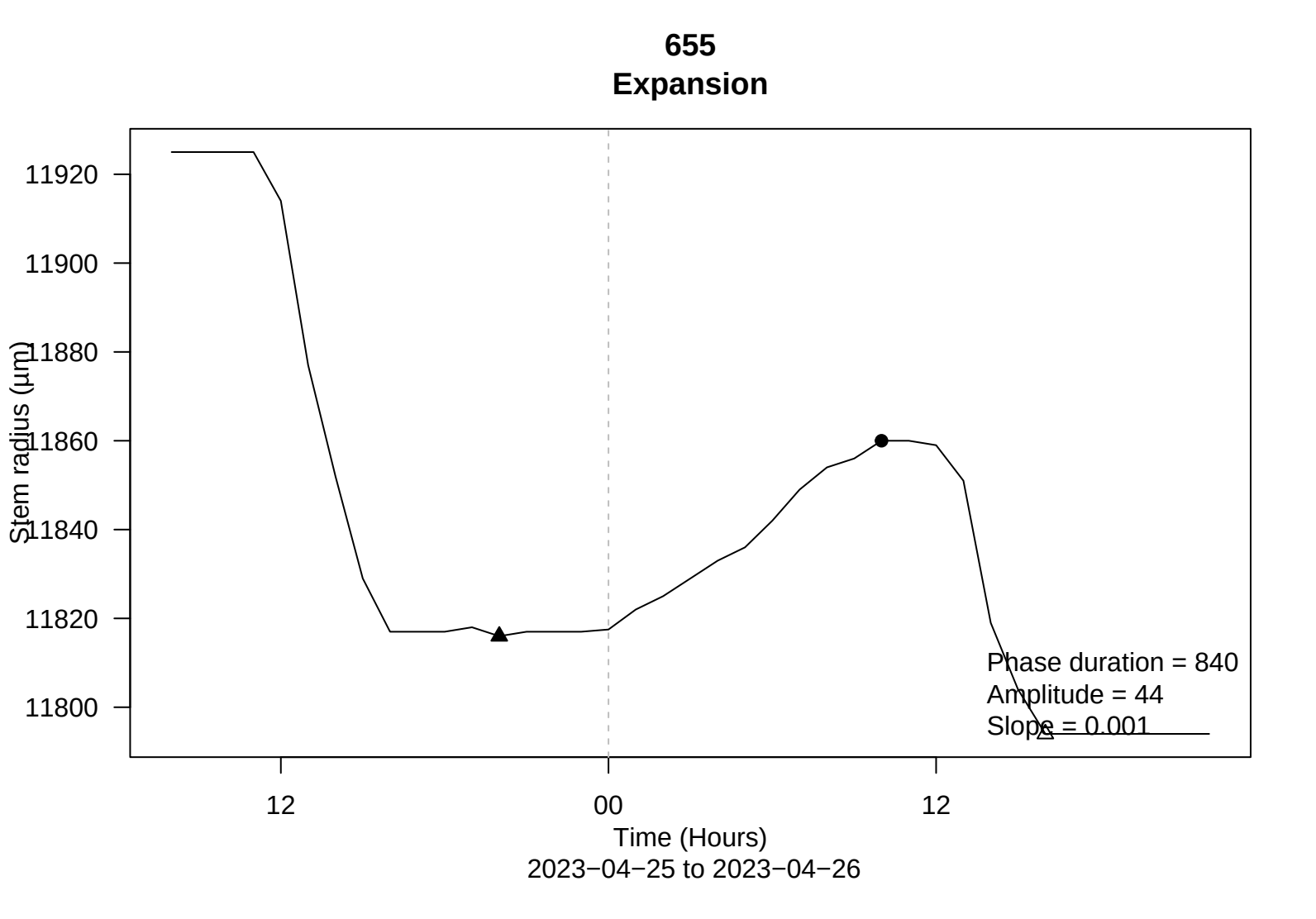

655
Shrinkage
12040
12020
12000
11980
11960
11940
Stem radius (µm)
Phase duration = 540
Amplitude = −118
Slope = −0.004
00
12
00
Time (Hours)
2023−04−22 to 2023−04−22

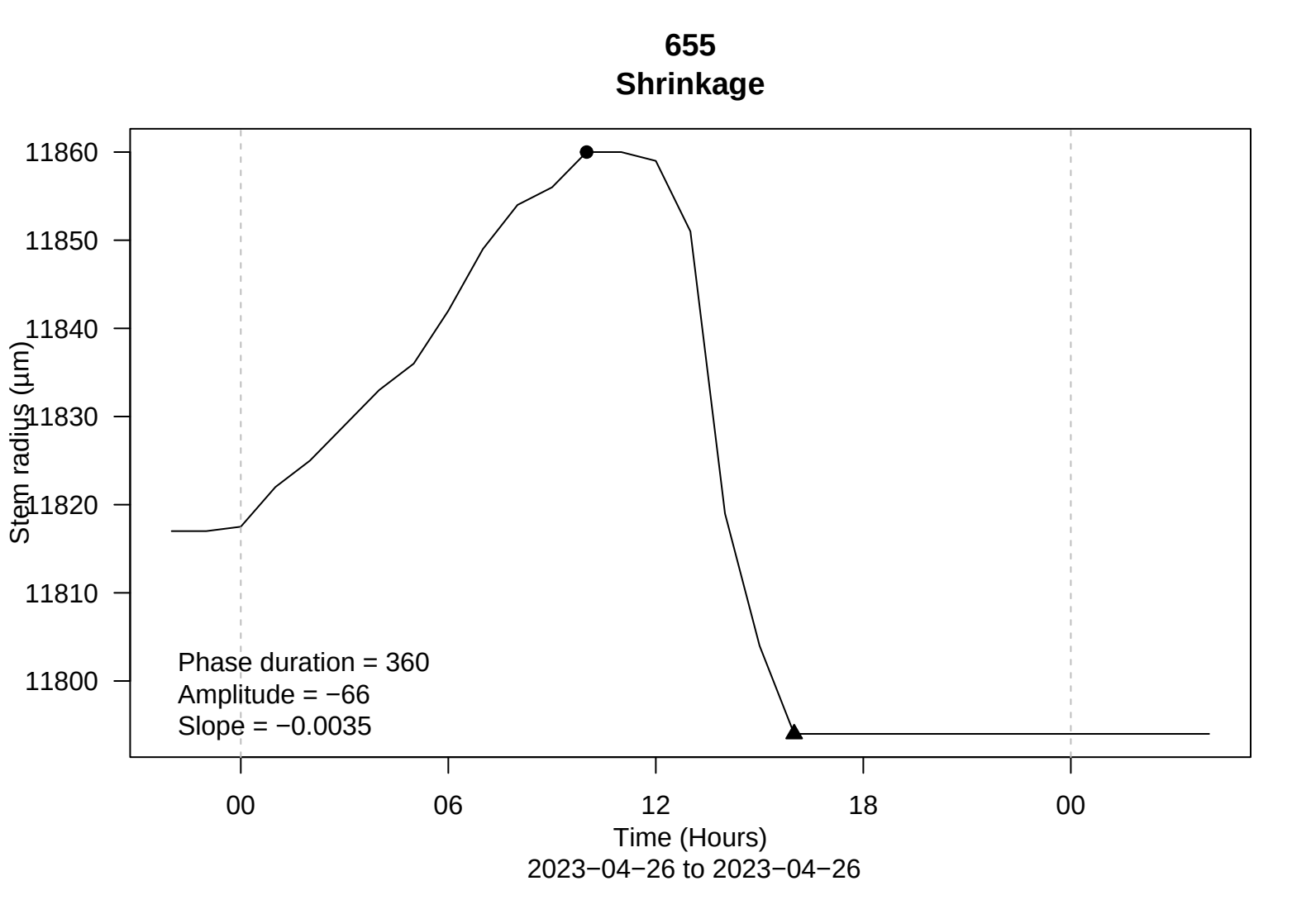

655
Expansion
12050
12000
11950
11900
Stem radius (µm)
Phase duration = 900
Amplitude = 22
Slope = 3e−04
12
00
12
00
Time (Hours)
2023−04−22 to 2023−04−23

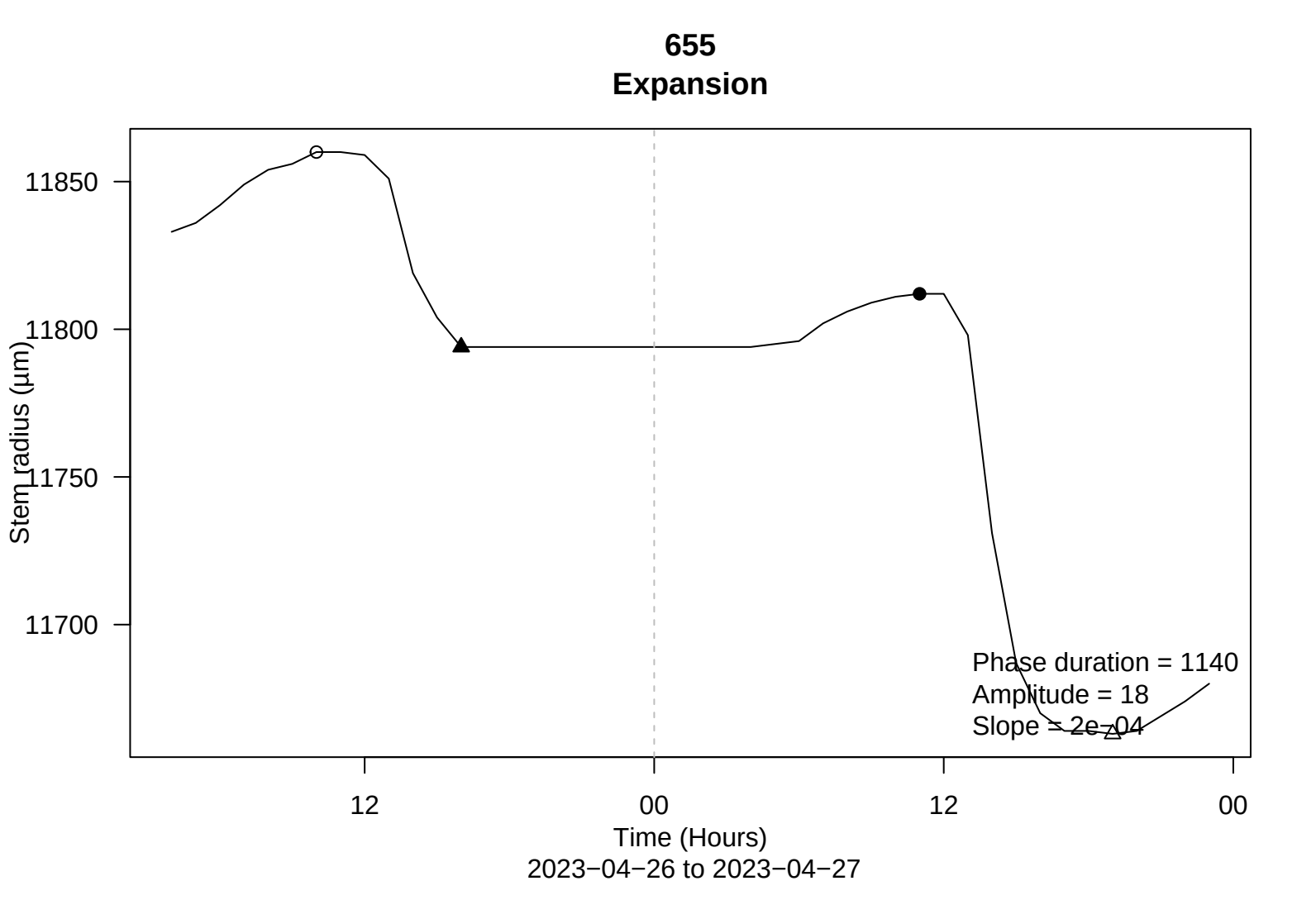

655
Shrinkage
11950
11940
11930
11920
11910
11900
11890
11880
Stem radius (µm)
Phase duration = 540
Amplitude = −72
Slope = −0.0024
00
12
00
Time (Hours)
2023−04−23 to 2023−04−23

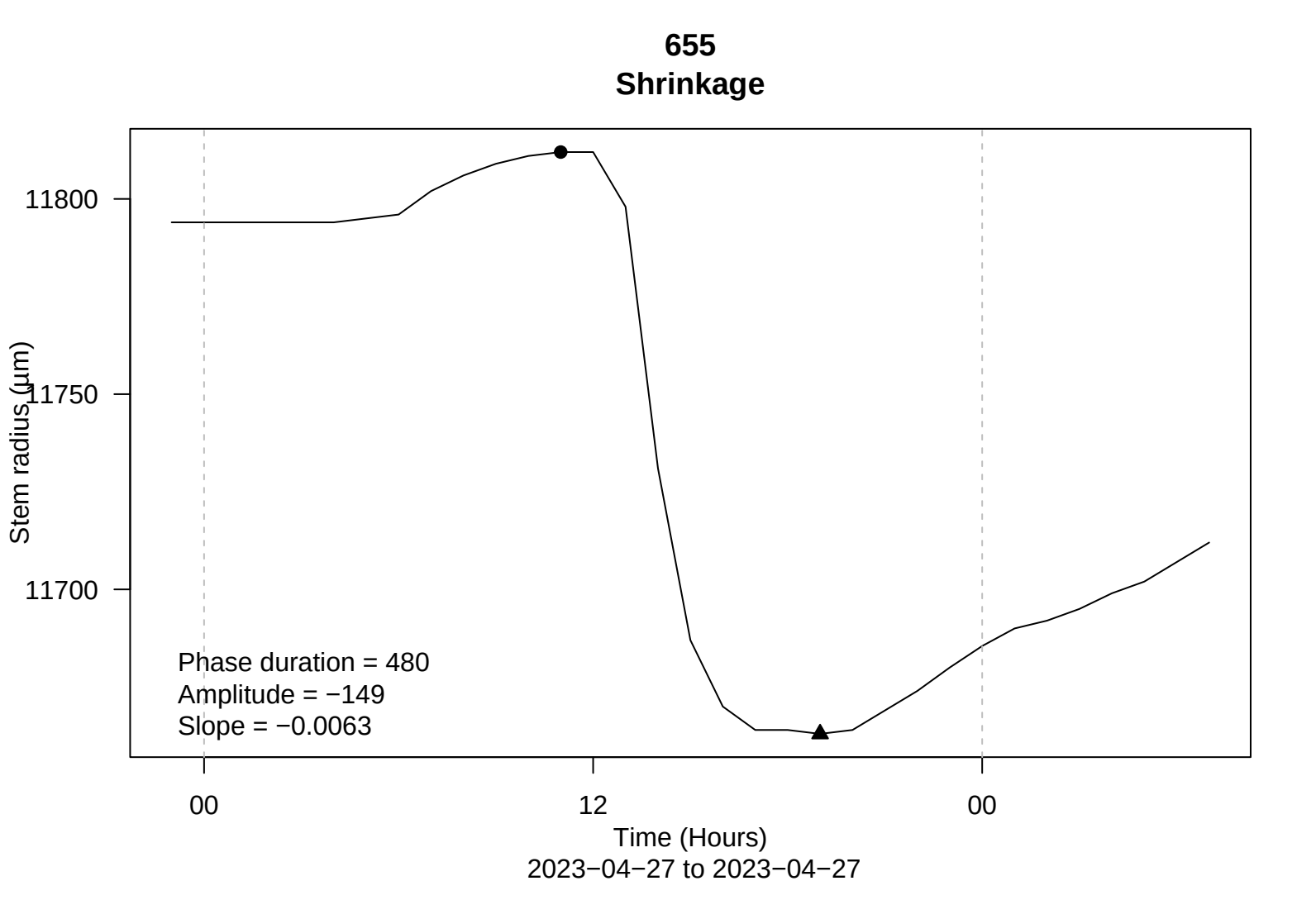

655
Expansion
11950
11940
11930
11920
11910
11900
11890
11880
Stem radius (µm)
Phase duration = 780
Amplitude = 49
Slope = 0.0011
12
00
12
Time (Hours)
2023−04−23 to 2023−04−24

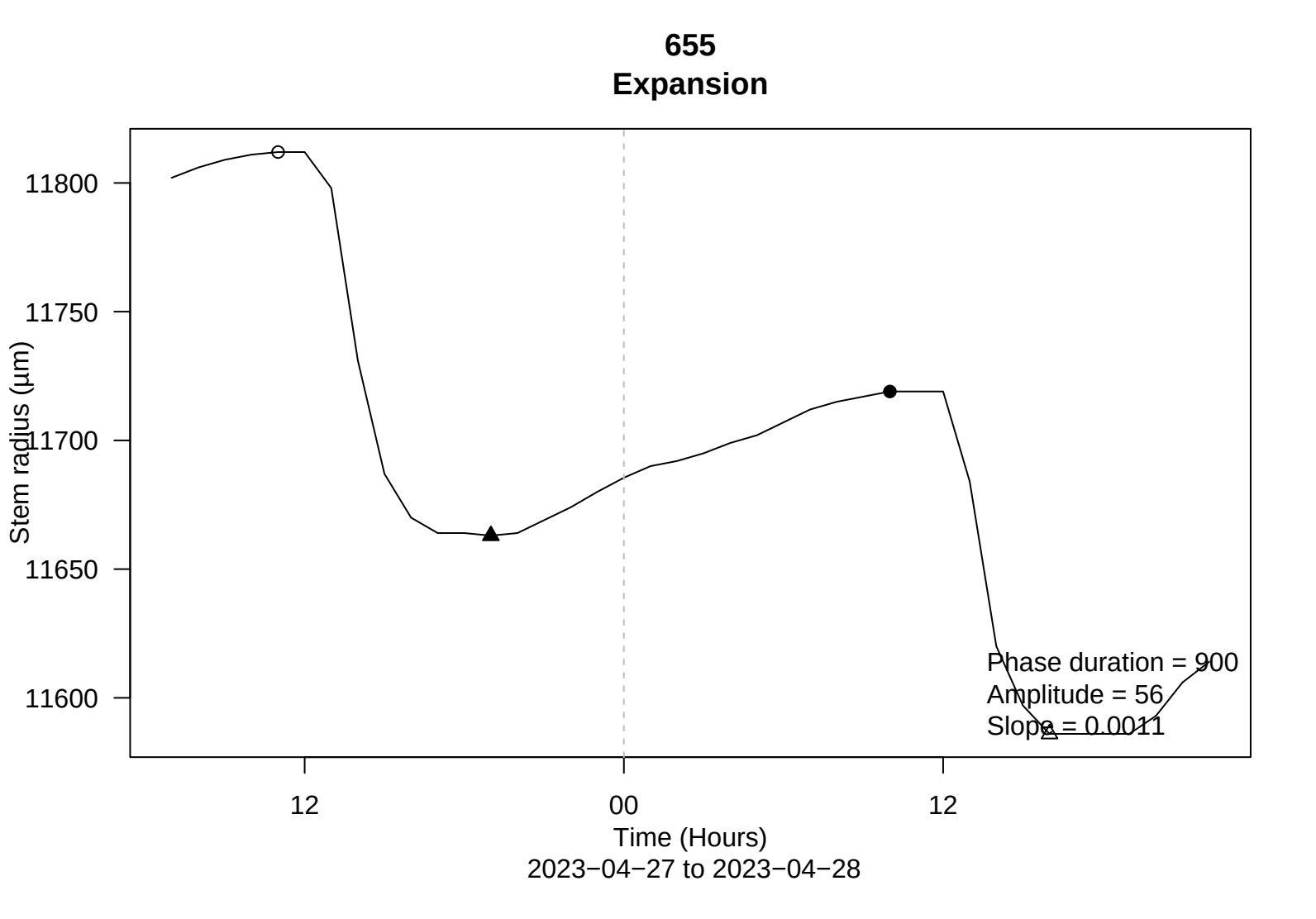

655
Shrinkage
11920
11900
11880
11860
11840
11820
Stem radius (µm)
Phase duration = 2100
Amplitude = −109
Slope = −8e−04
00
12
00
12
00
Time (Hours)
2023−04−24 to 2023−04−25

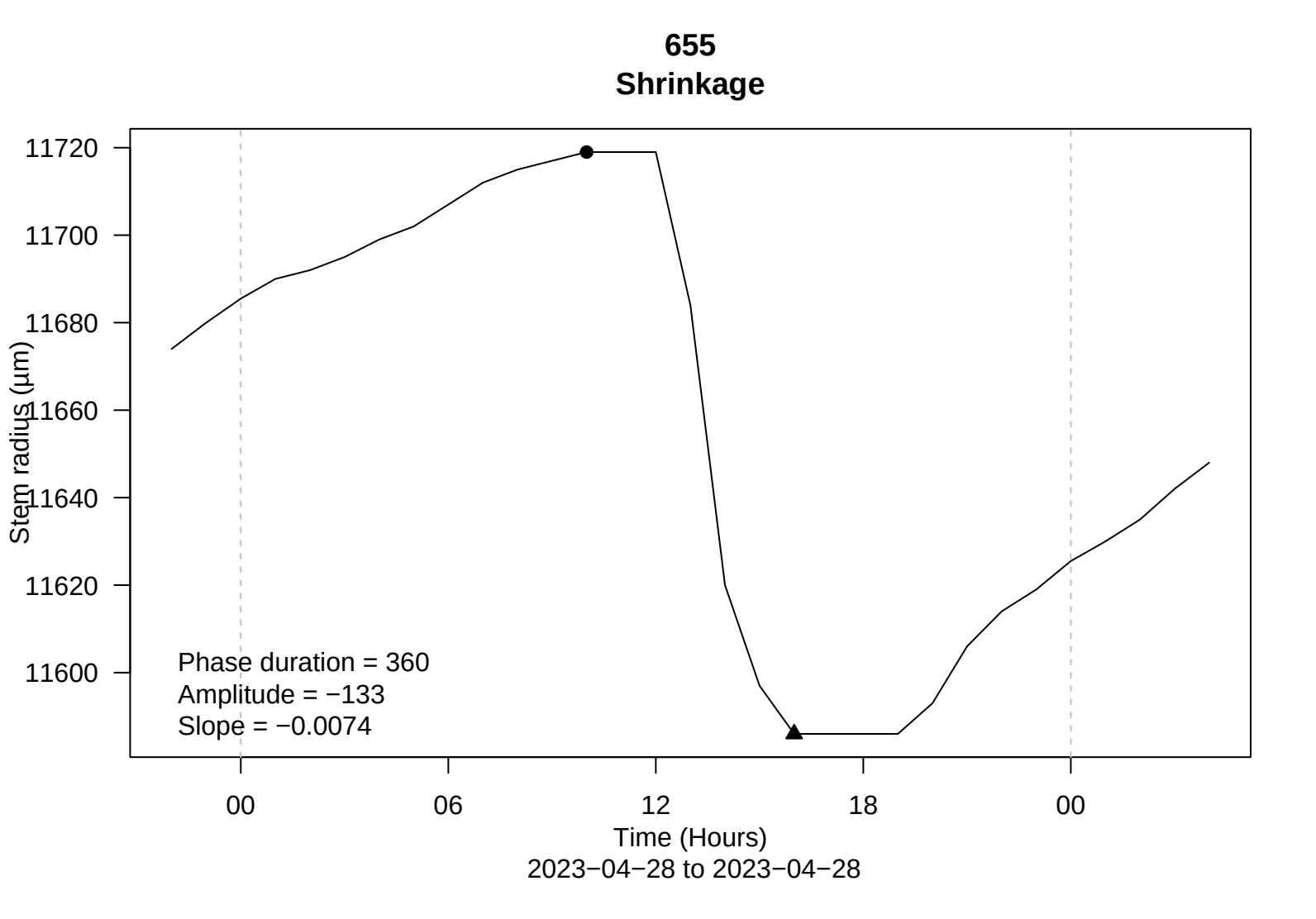

655
Expansion
11920
11900
11880
11860
11840
11820
11800
Stem radius (µm)
Phase duration = 840
Amplitude = 44
Slope = 0.001
12
00
12
Time (Hours)
2023−04−25 to 2023−04−26

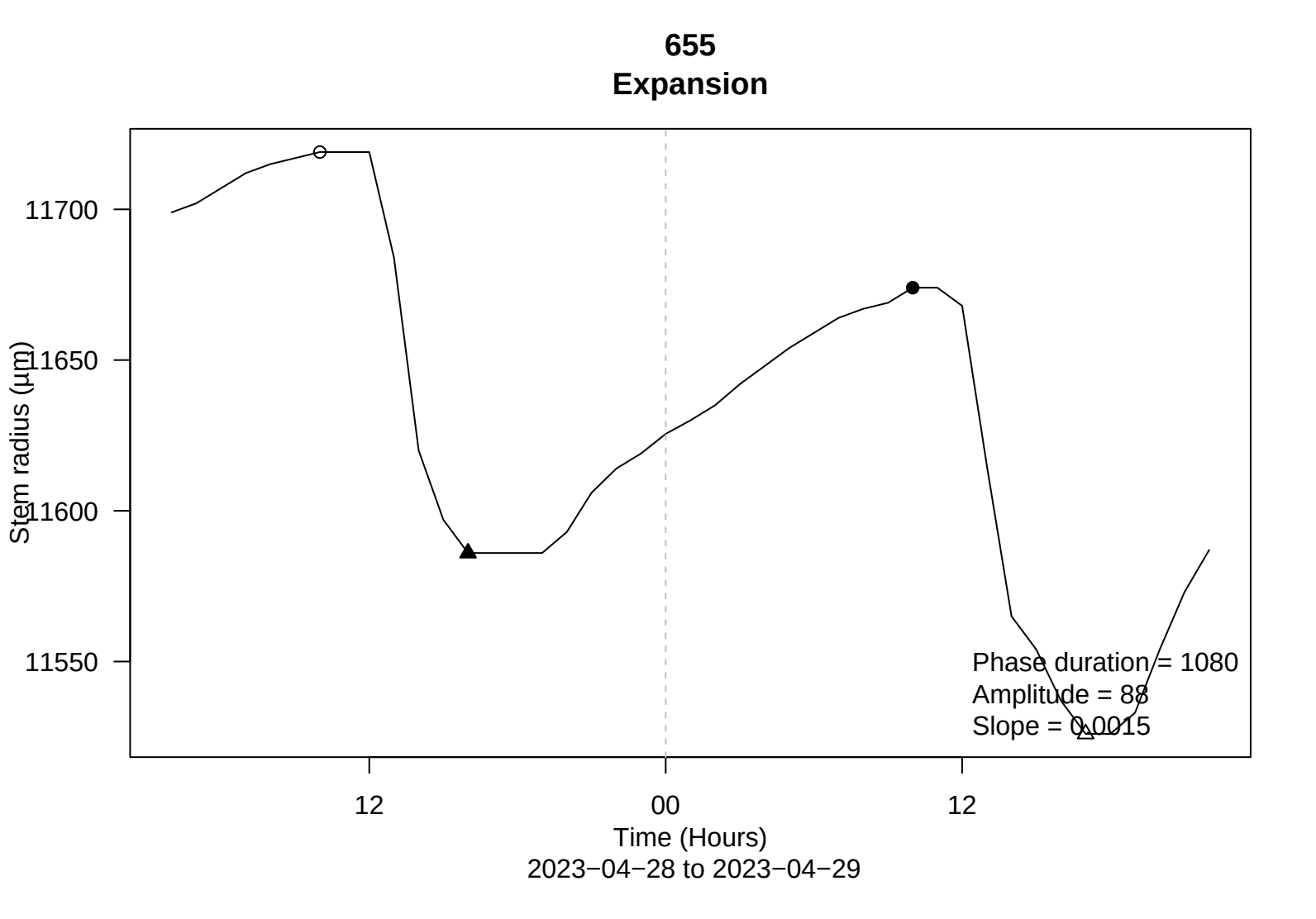

655
Shrinkage
11860
11850
11840
11830
11820
11810
11800
Stem radius (µm)
Phase duration = 360
Amplitude = −66
Slope = −0.0035
00
06
12
18
00
Time (Hours)
2023−04−26 to 2023−04−26

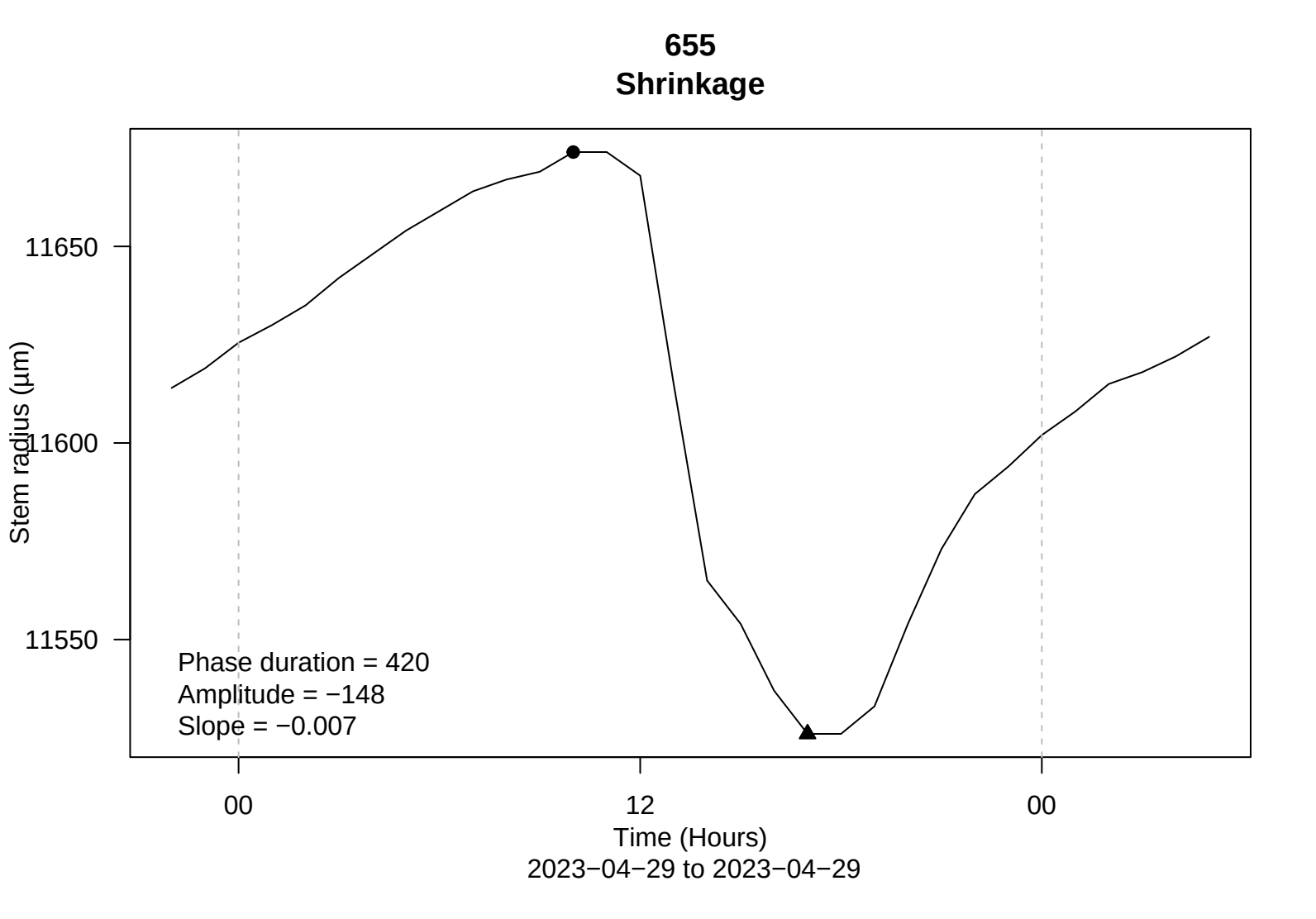

655
Expansion
11850
11800
11750
11700
Stem radius (µm)
Phase duration = 1140
Amplitude = 18
Slope = 2e−04
12
00
12
00
Time (Hours)
2023−04−26 to 2023−04−27

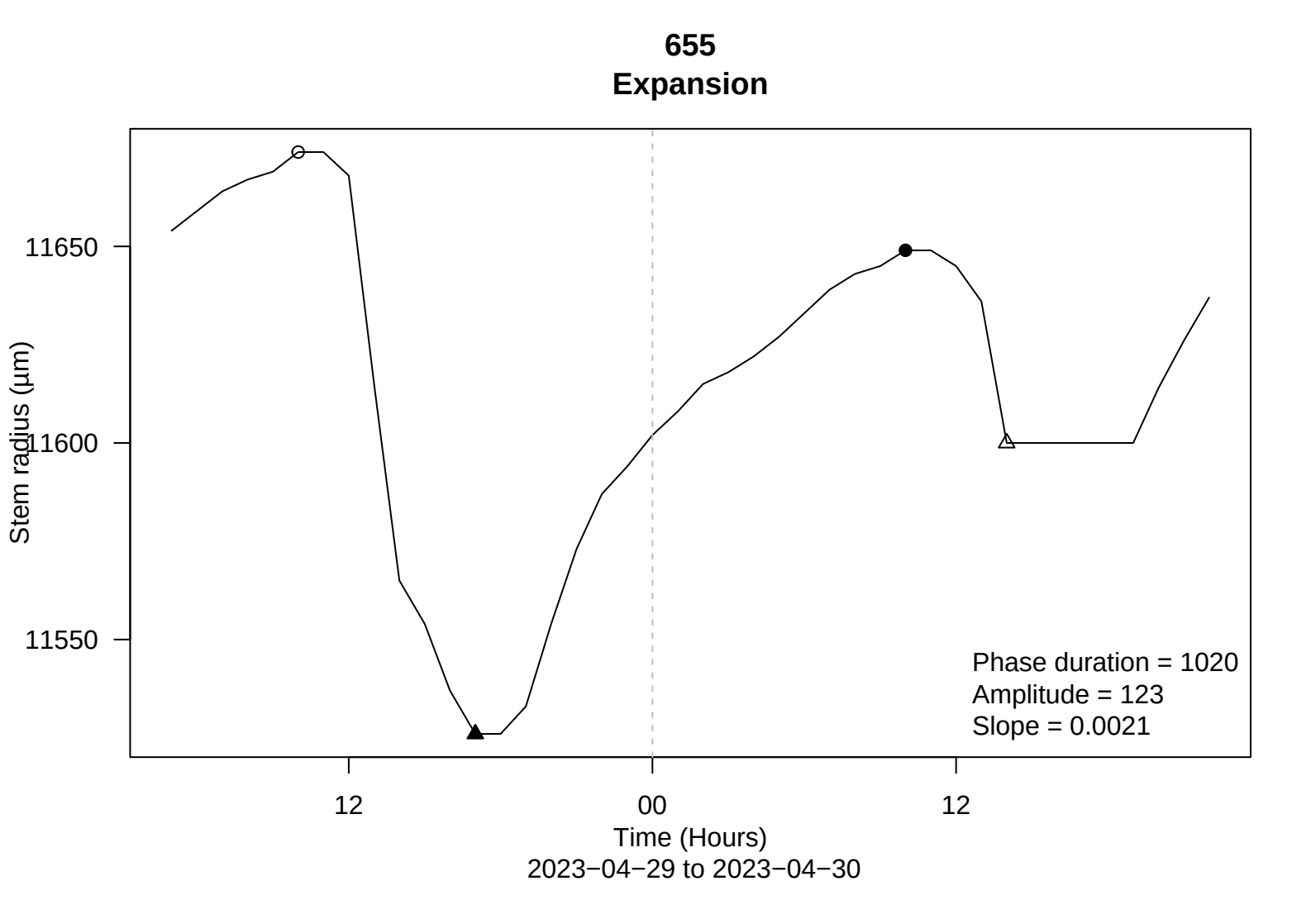

655
Shrinkage
11800
11750
11700
Stem radius (µm)
Phase duration = 480
Amplitude = −149
Slope = −0.0063
00
12
00
Time (Hours)
2023−04−27 to 2023−04−27

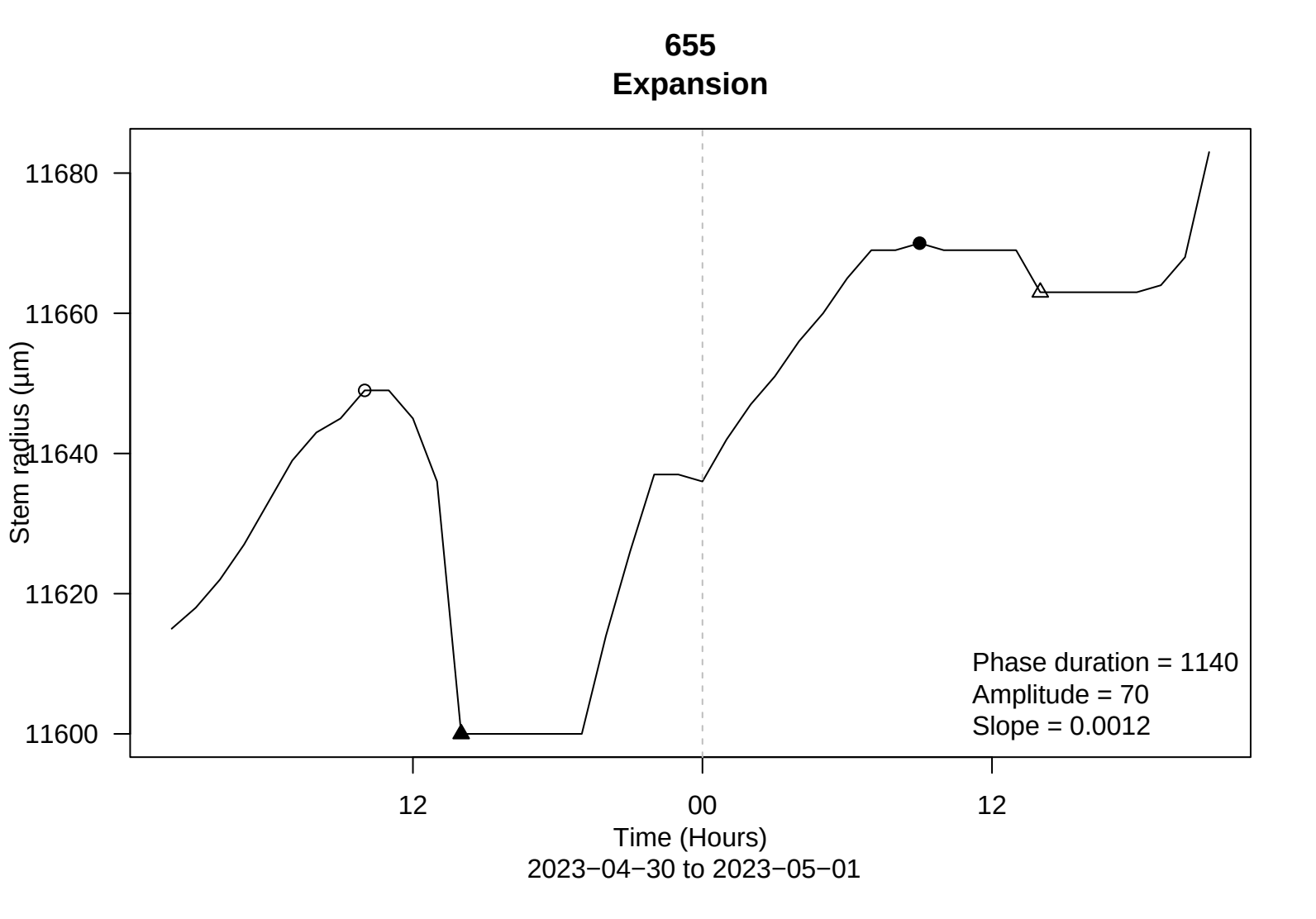

655
Expansion
11800
11750
11700
11650
11600
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−27 to 2023−04−28
Phase duration = 900
Amplitude = 56
Slope = 0.0011

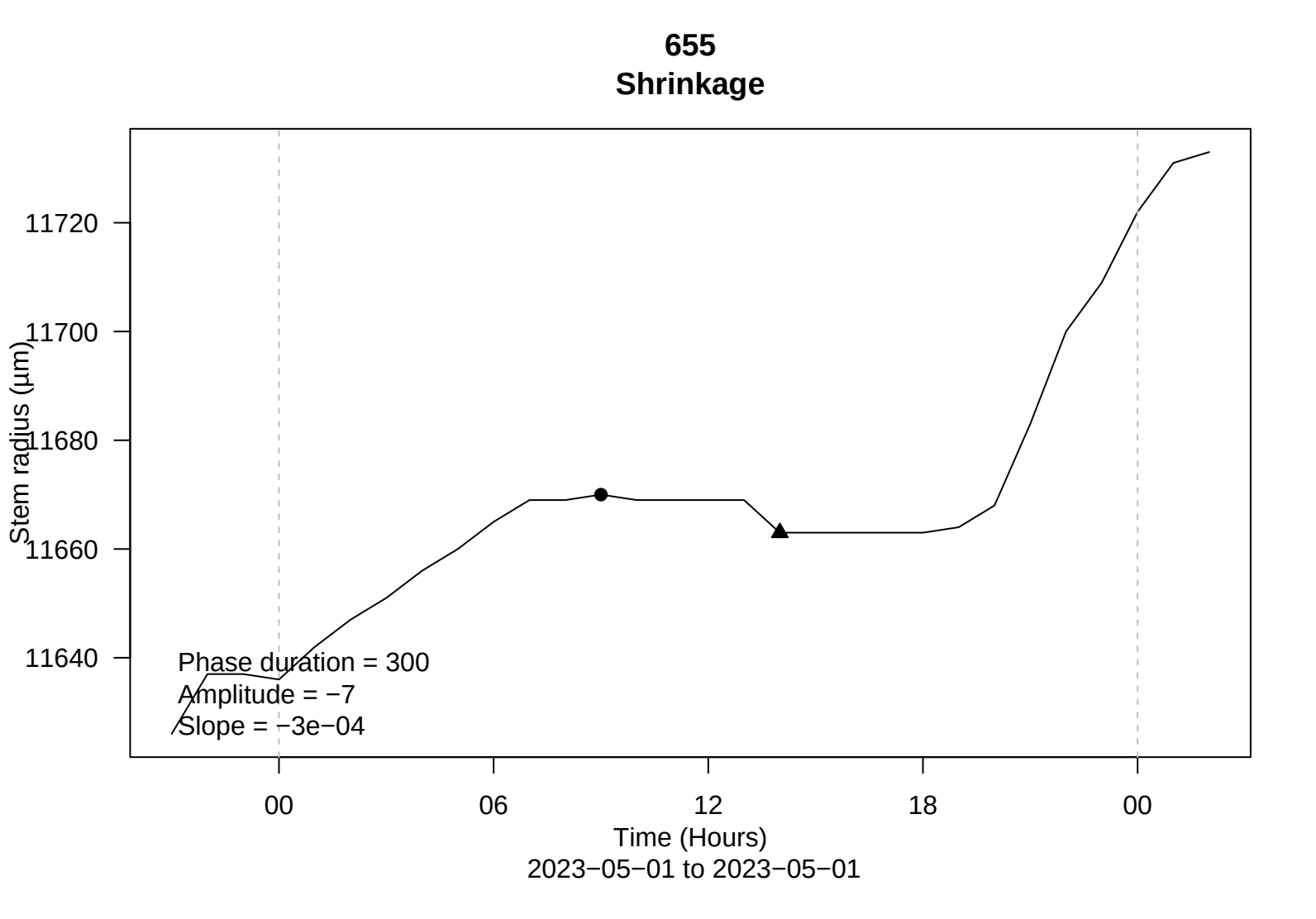

655
Shrinkage
11720
11700
11680
11660
11640
11620
11600
Stem radius (µm)
Phase duration = 360
Amplitude = −133
Slope = −0.0074
00
06
12
18
00
Time (Hours)
2023−04−28 to 2023−04−28

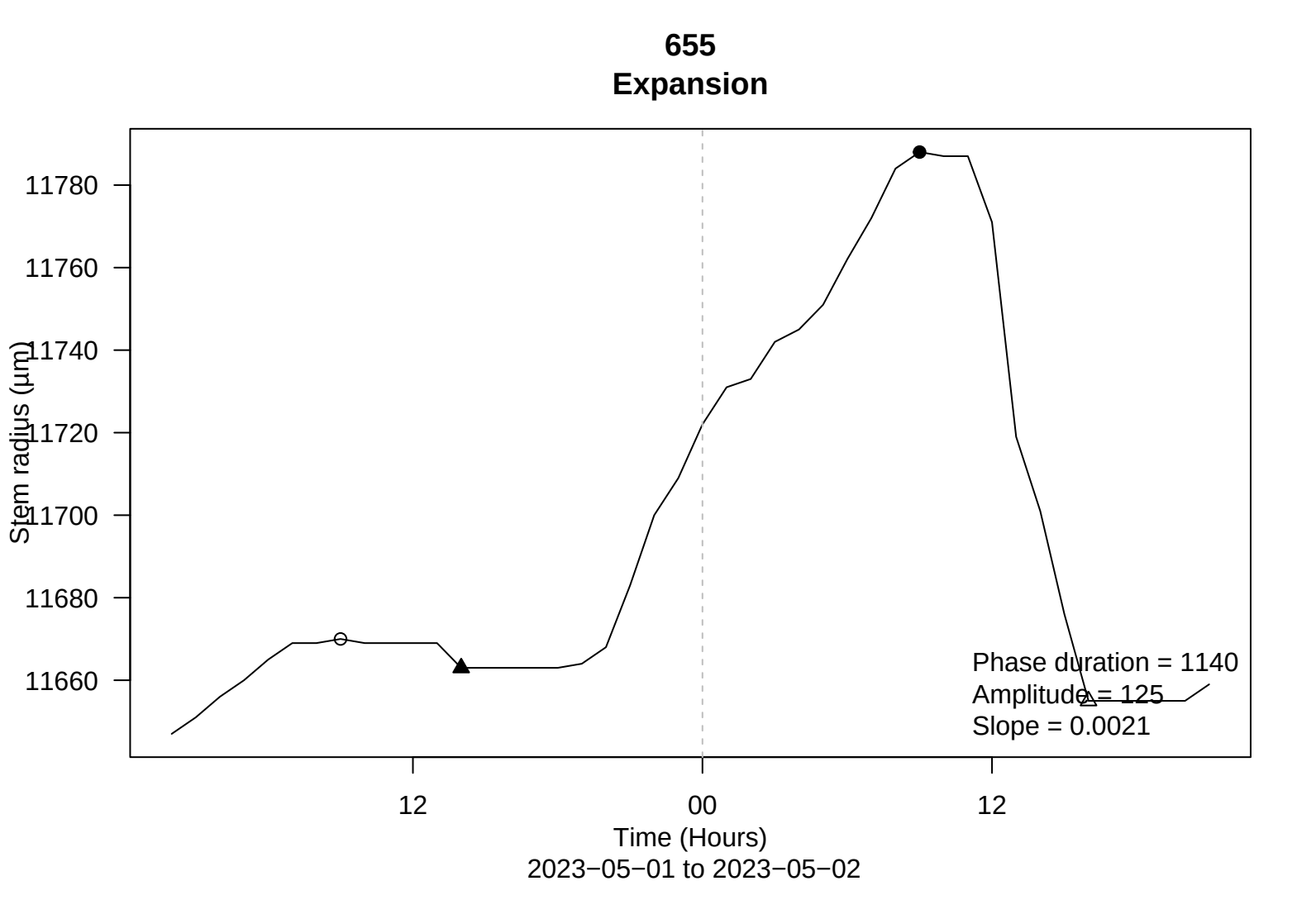

655
Expansion
11700
11650
11600
11550
Stem radius (µm)
Phase duration = 1080
Amplitude = 88
Slope = 0.0015
12
00
12
Time (Hours)
2023−04−28 to 2023−04−29

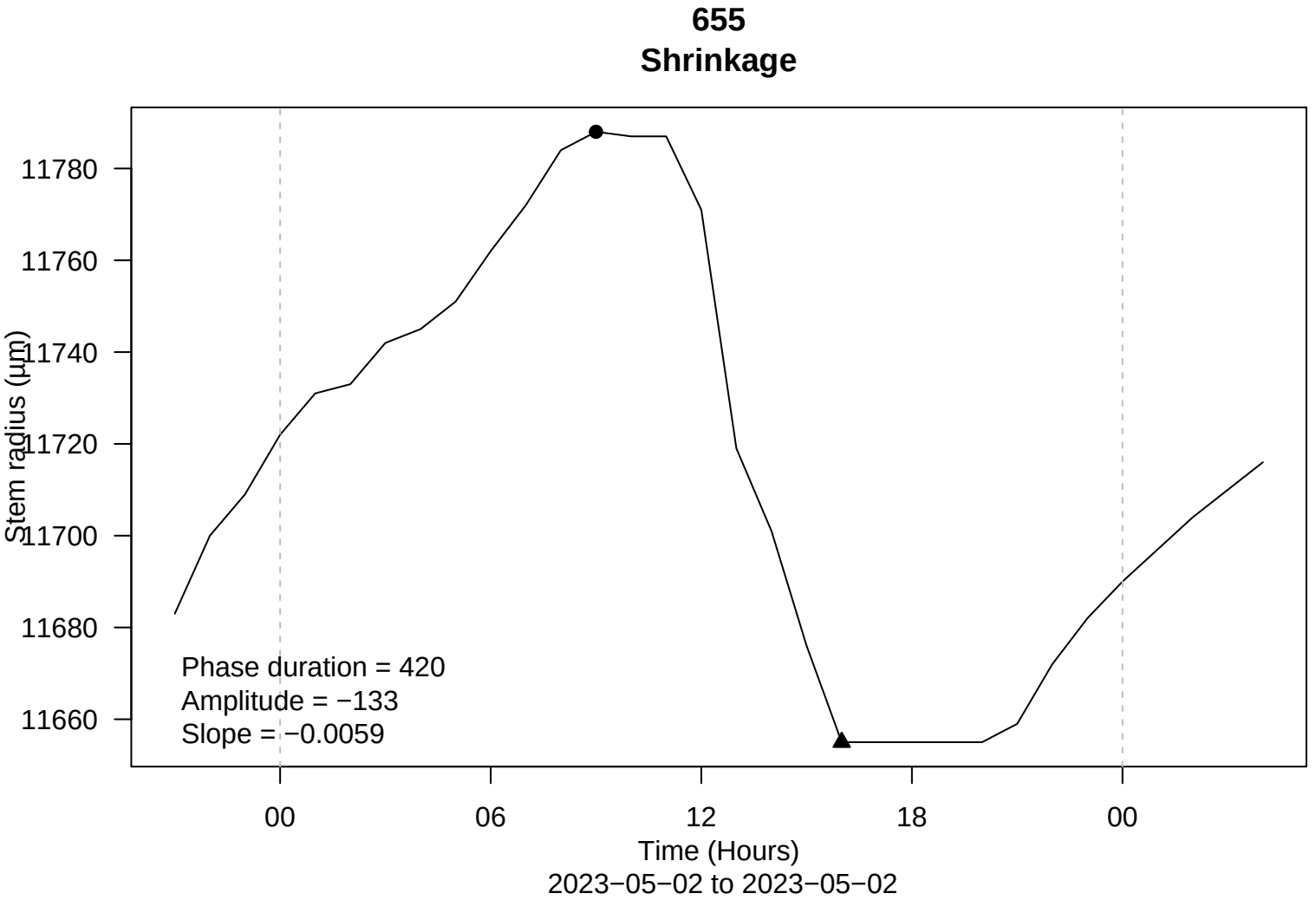

655
Shrinkage
11650
11600
11550
Stem radius (µm)
Phase duration = 420
Amplitude = −148
Slope = −0.007
00
12
00
Time (Hours)
2023−04−29 to 2023−04−29

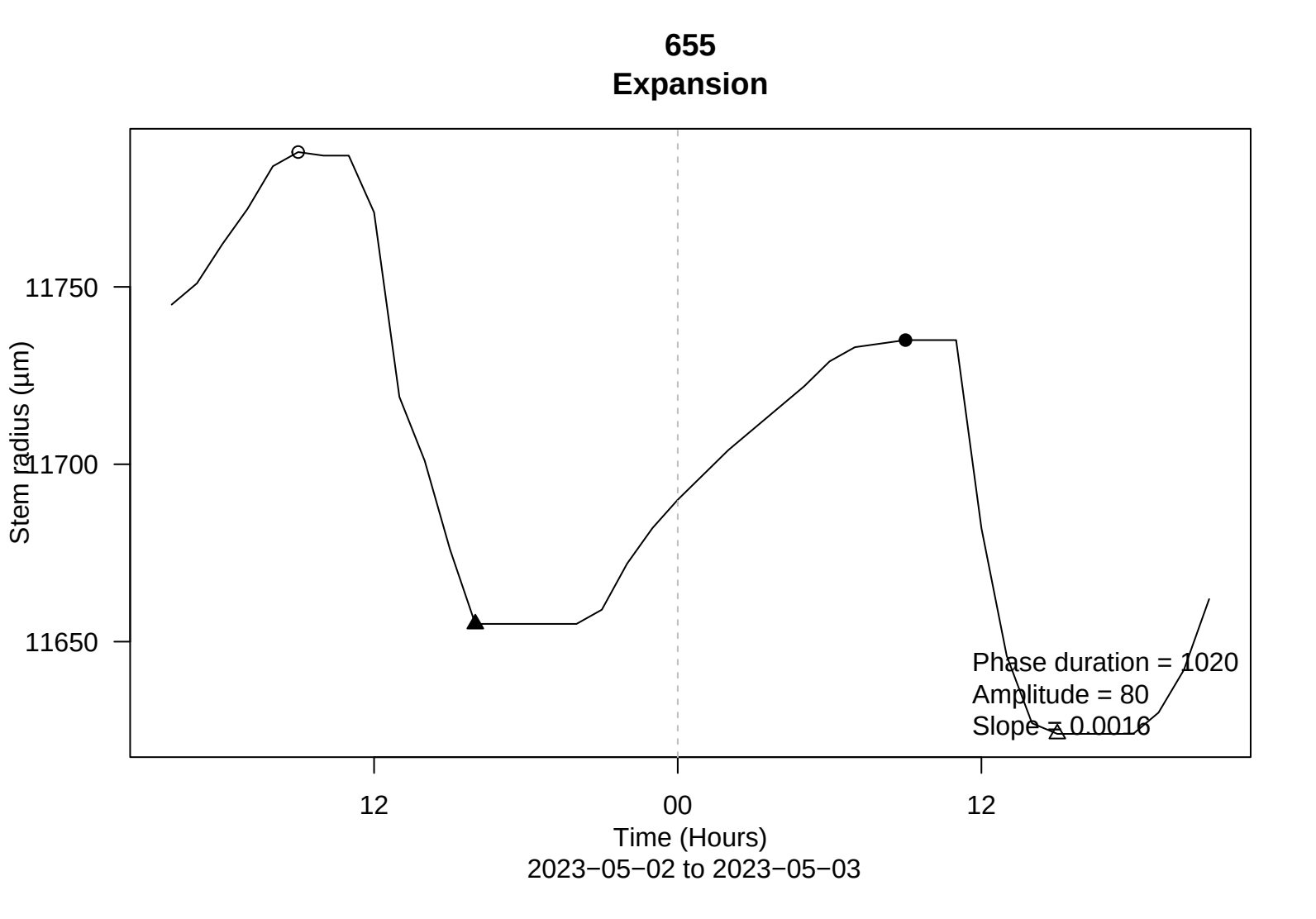

655
Expansion
11650
11600
11550
Stem radius (µm)
Phase duration = 1020
Amplitude = 123
Slope = 0.0021
12
00
12
Time (Hours)
2023−04−29 to 2023−04−30

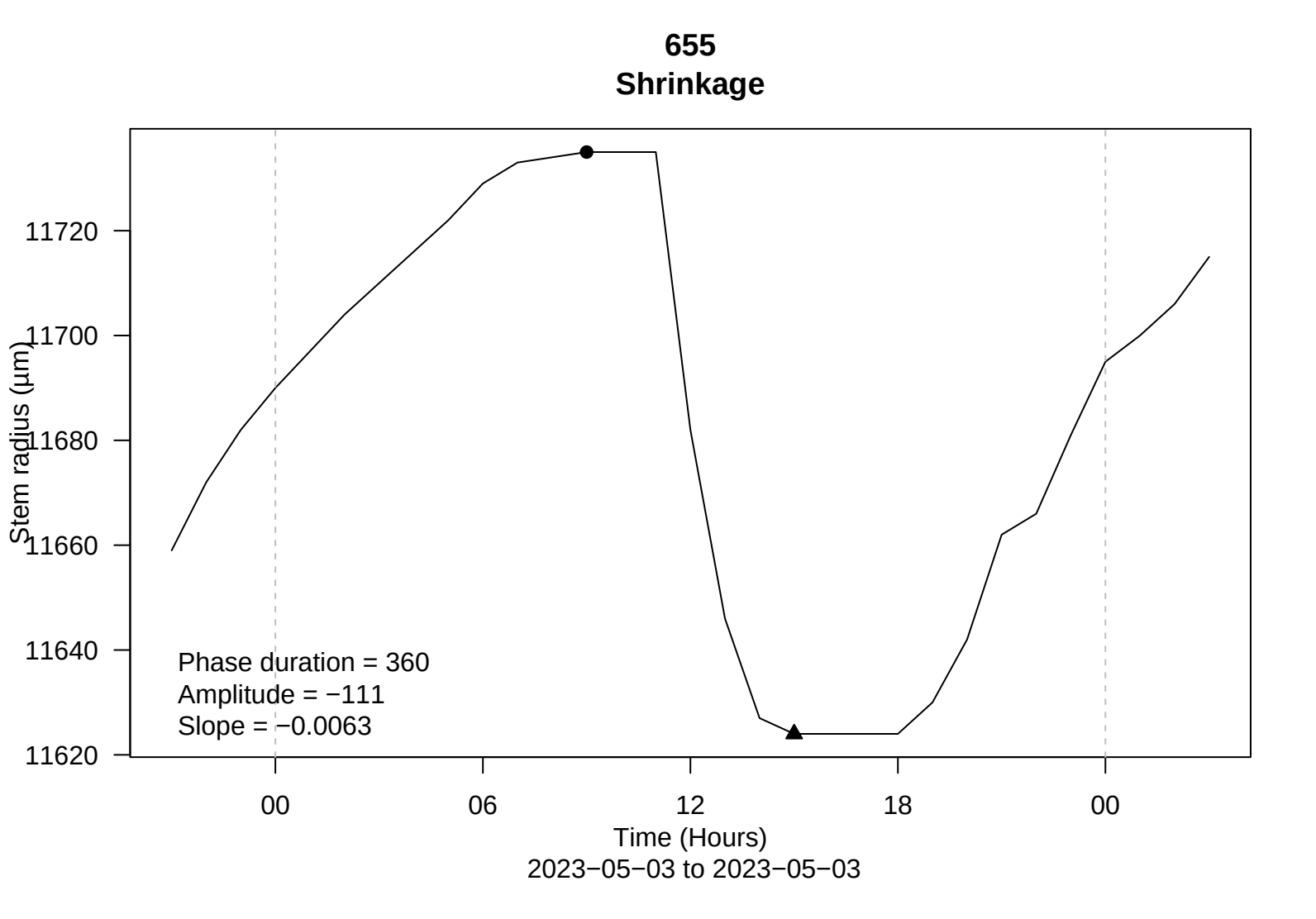

655
Expansion
11680
11660
11640
11620
11600
Stem radius (µm)
Phase duration = 1140
Amplitude = 70
Slope = 0.0012
12
00
12
Time (Hours)
2023−04−30 to 2023−05−01

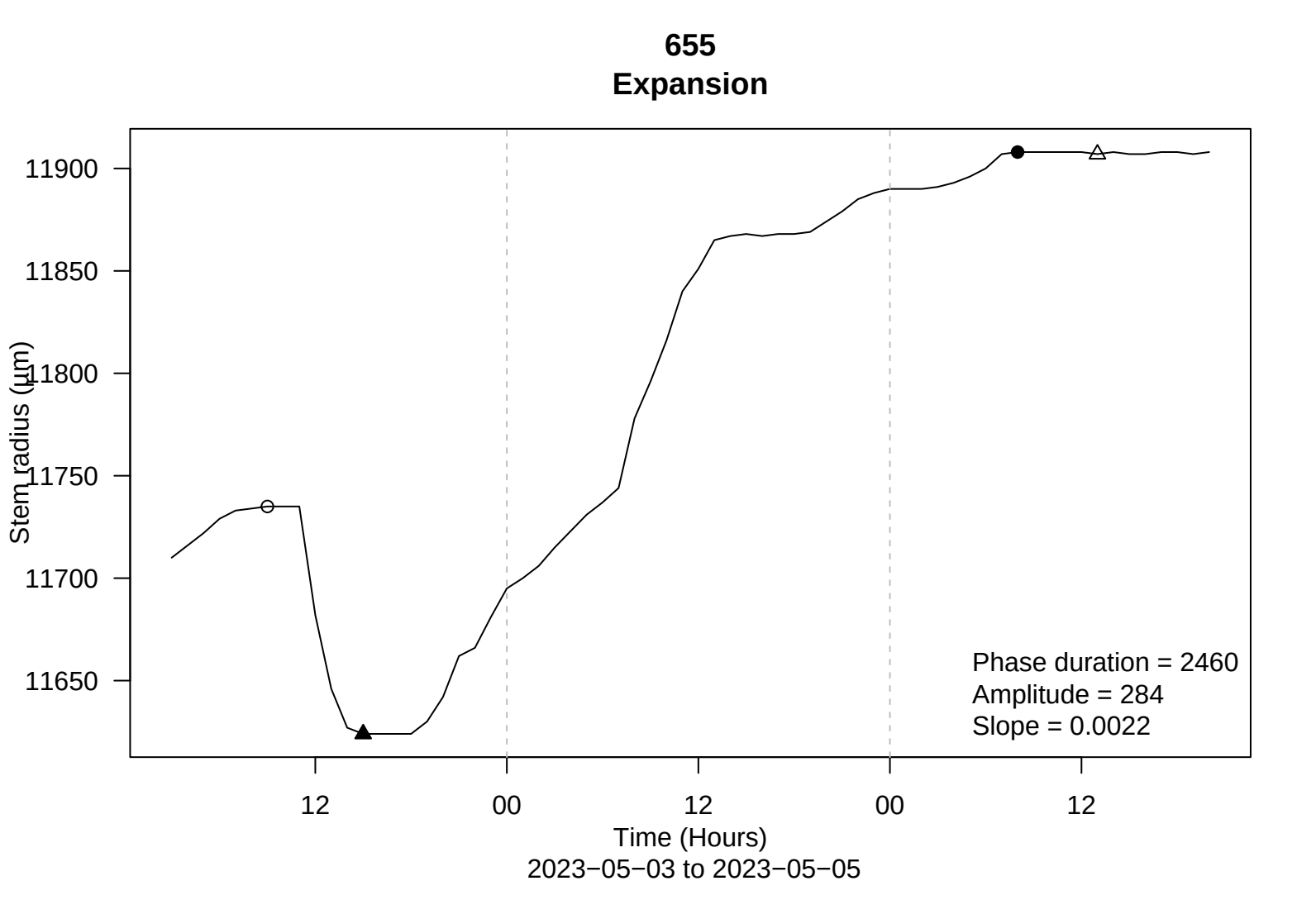

655
Shrinkage
11720
11700
11680
11660
11640
Stem radius (µm)
Phase duration = 300
Amplitude = −7
Slope = −3e−04
00
06
12
18
00
Time (Hours)
2023−05−01 to 2023−05−01

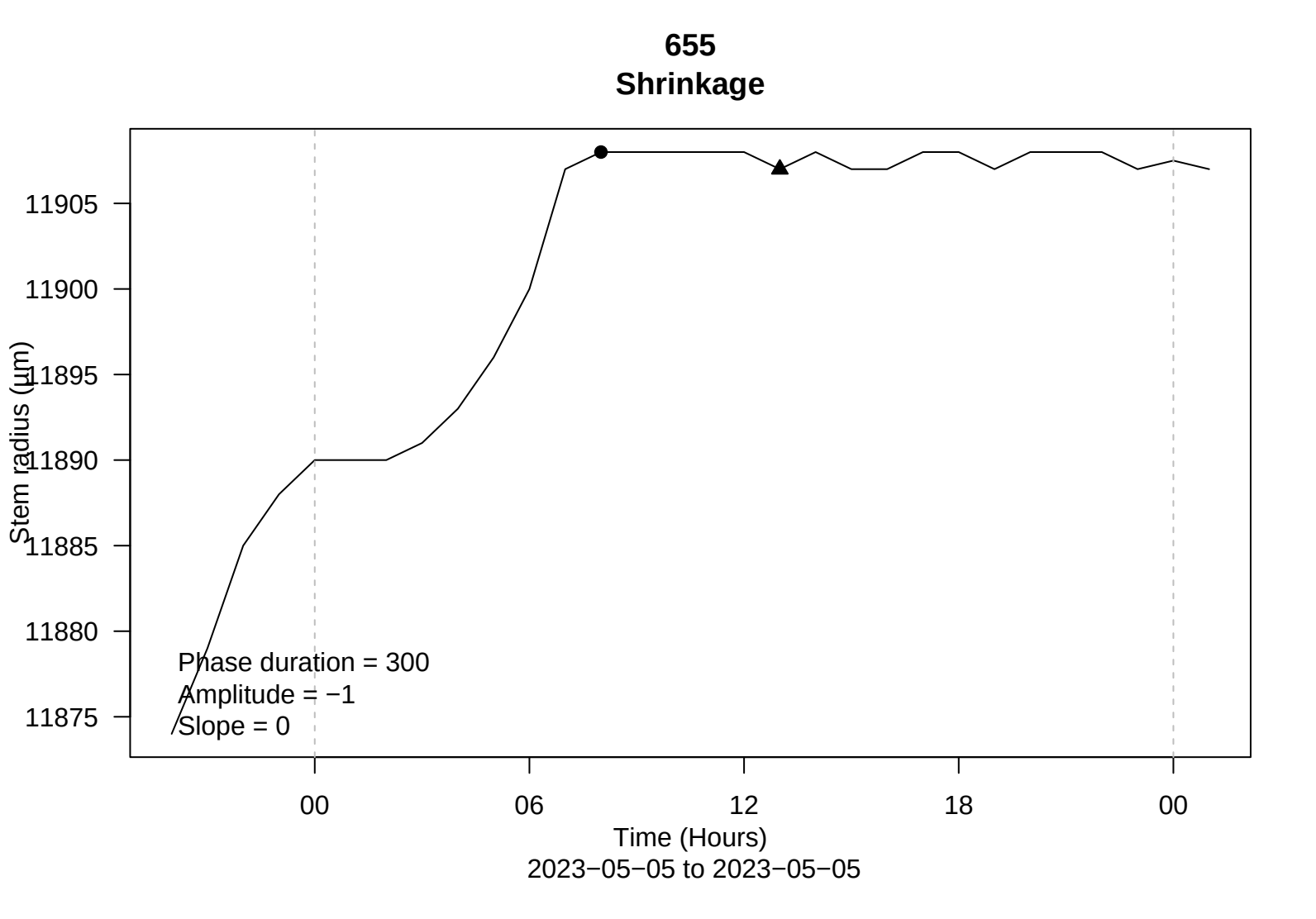

655
Expansion
11780
11760
11740
11720
11700
11680
11660
Stem radius (µm)
Phase duration = 1140
Amplitude = 125
Slope = 0.0021
12
00
12
Time (Hours)
2023−05−01 to 2023−05−02

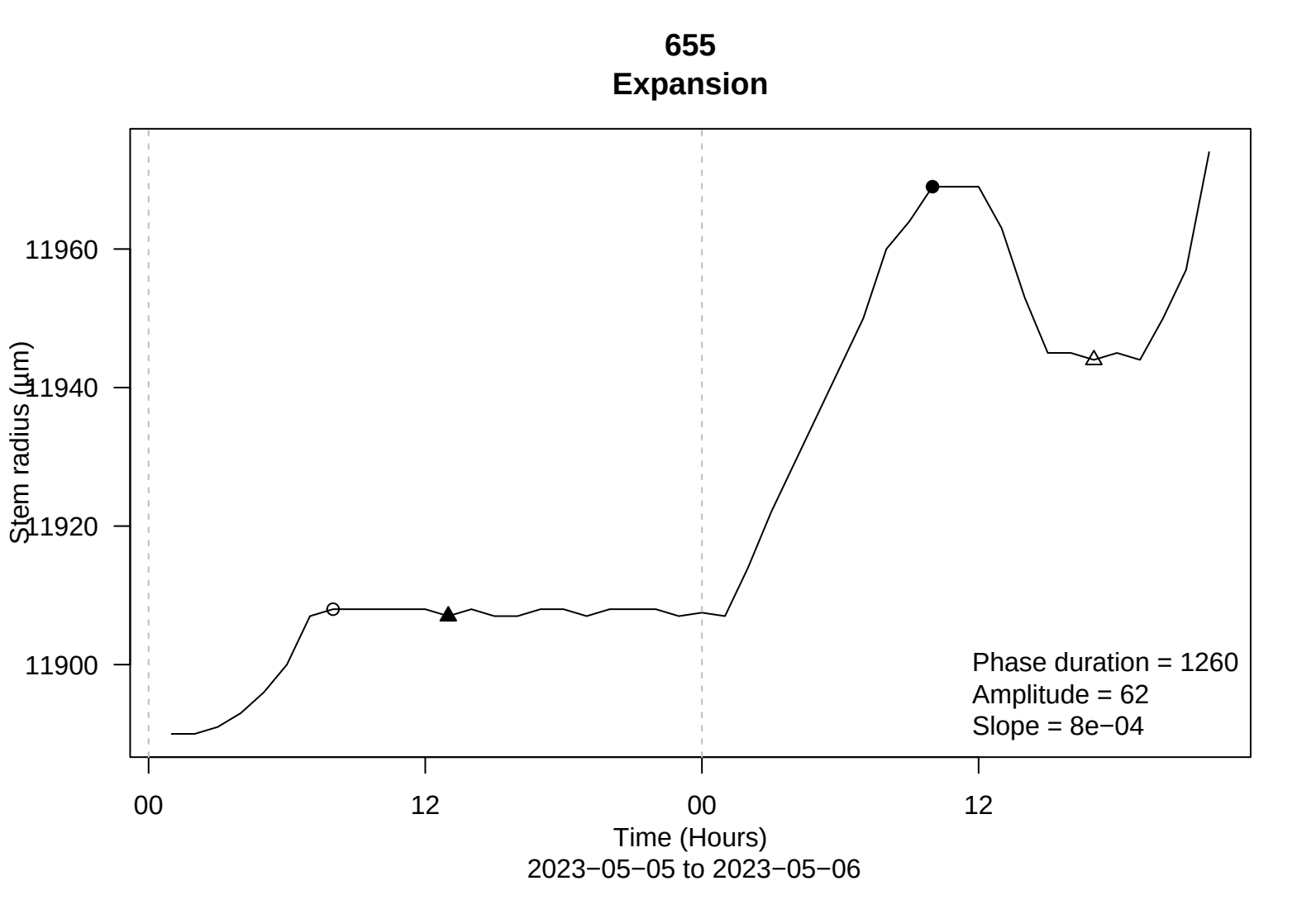

655
Shrinkage
11780
11760
11740
11720
11700
11680
11660
Stem radius (µm)
Phase duration = 420
Amplitude = −133
Slope = −0.0059
00
06
12
18
00
Time (Hours)
2023−05−02 to 2023−05−02

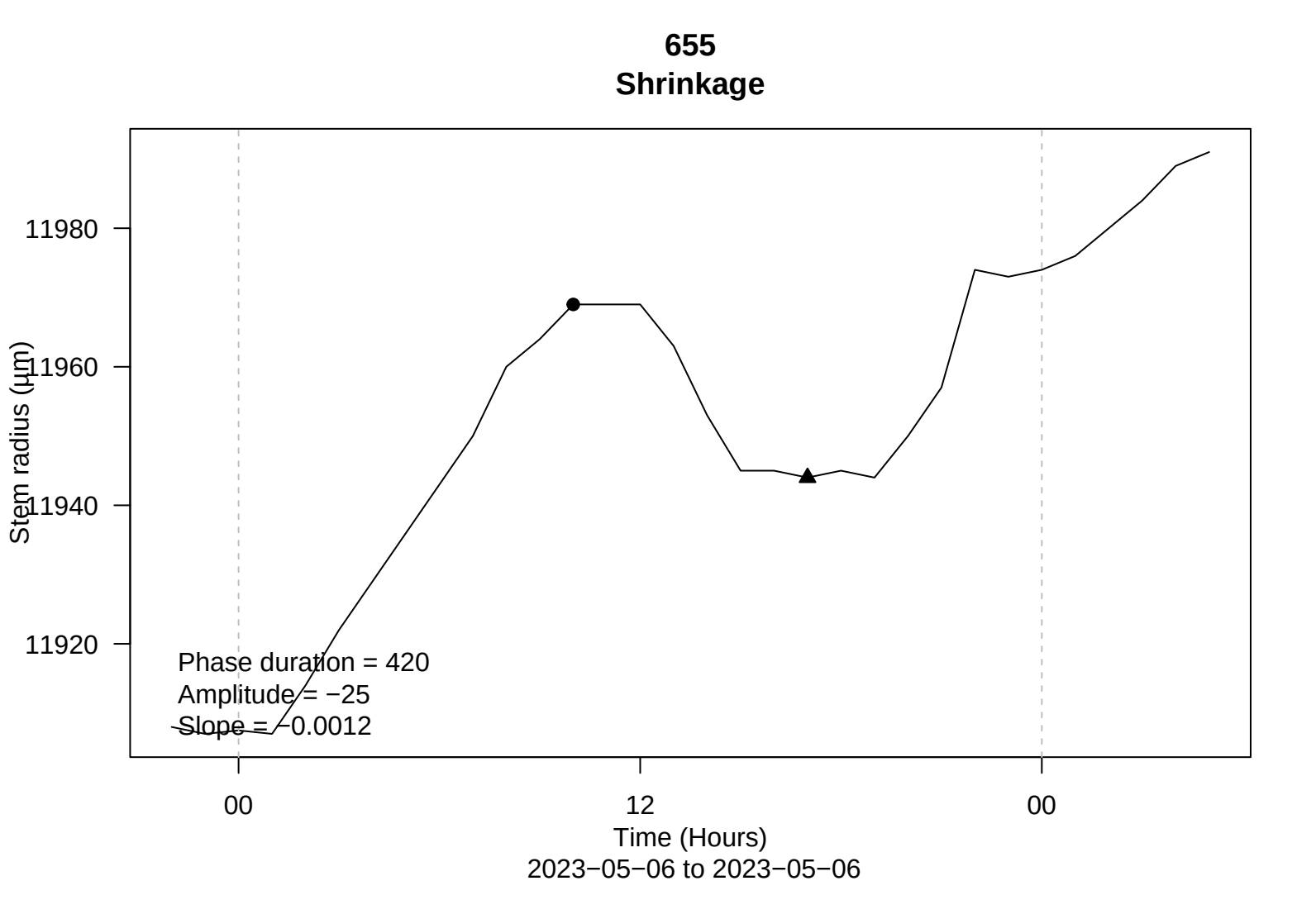

655
Expansion
11750
11700
11650
Stem radius (µm)
Phase duration = 1020
Amplitude = 80
Slope = 0.0016
12
00
12
Time (Hours)
2023−05−02 to 2023−05−03

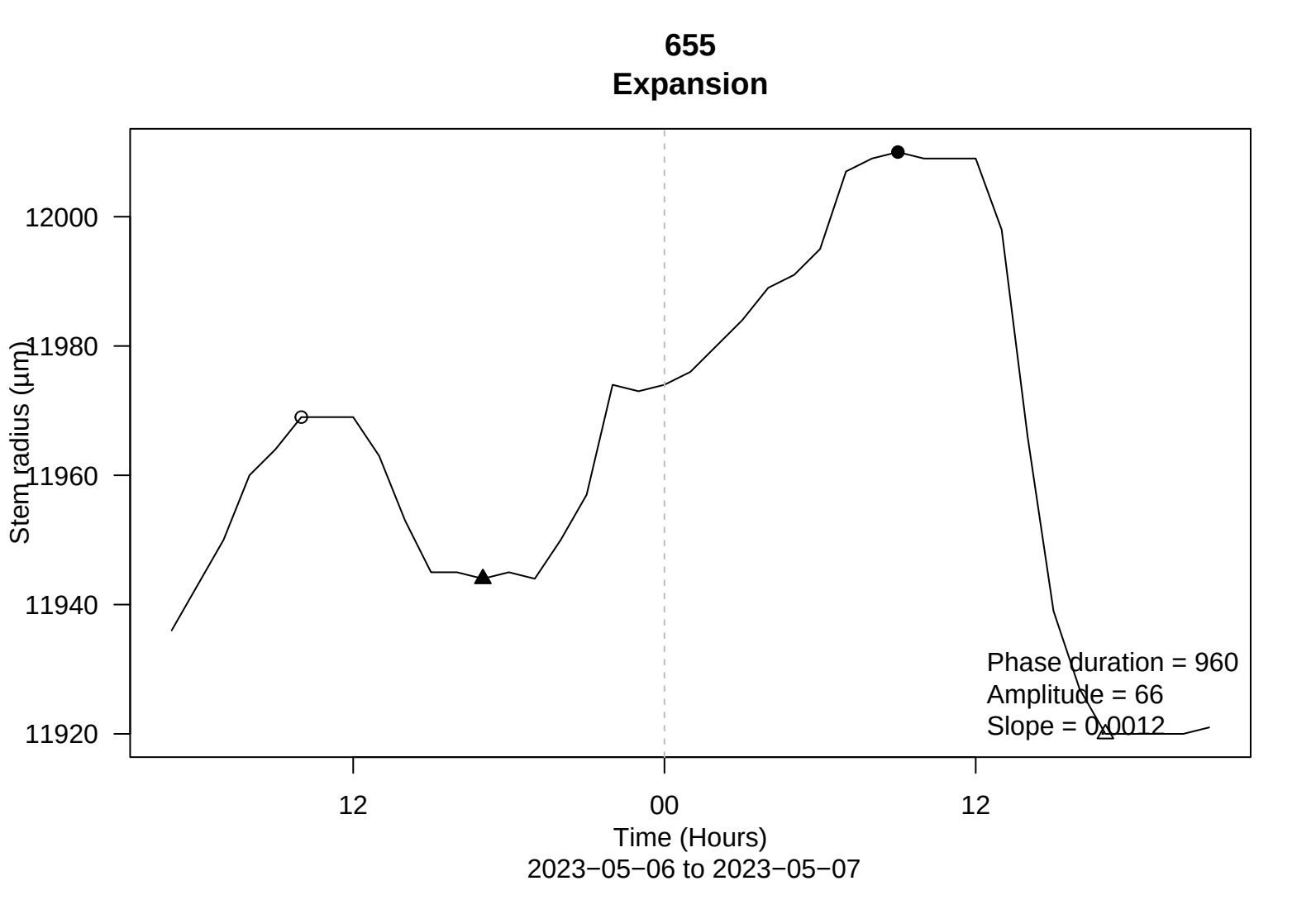

655
Shrinkage
11720
11700
11680
11660
11640
11620
Stem radius (µm)
Phase duration = 360
Amplitude = −111
Slope = −0.0063
00
06
12
18
00
Time (Hours)
2023−05−03 to 2023−05−03

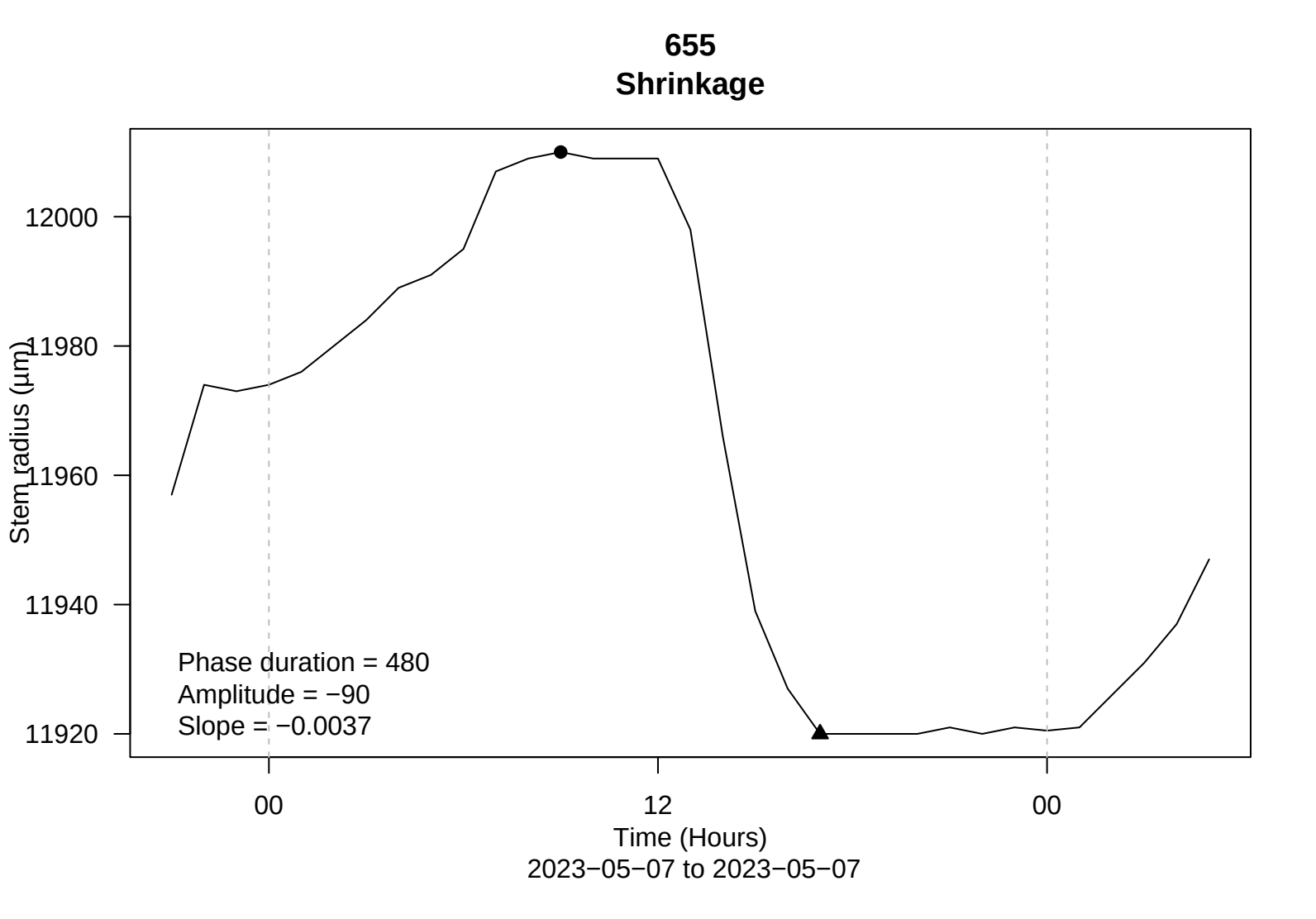

655
Expansion
11900
11850
11800
11750
11700
11650
Stem radius (µm)
Phase duration = 2460
Amplitude = 284
Slope = 0.0022
12
00
12
00
12
Time (Hours)
2023−05−03 to 2023−05−05

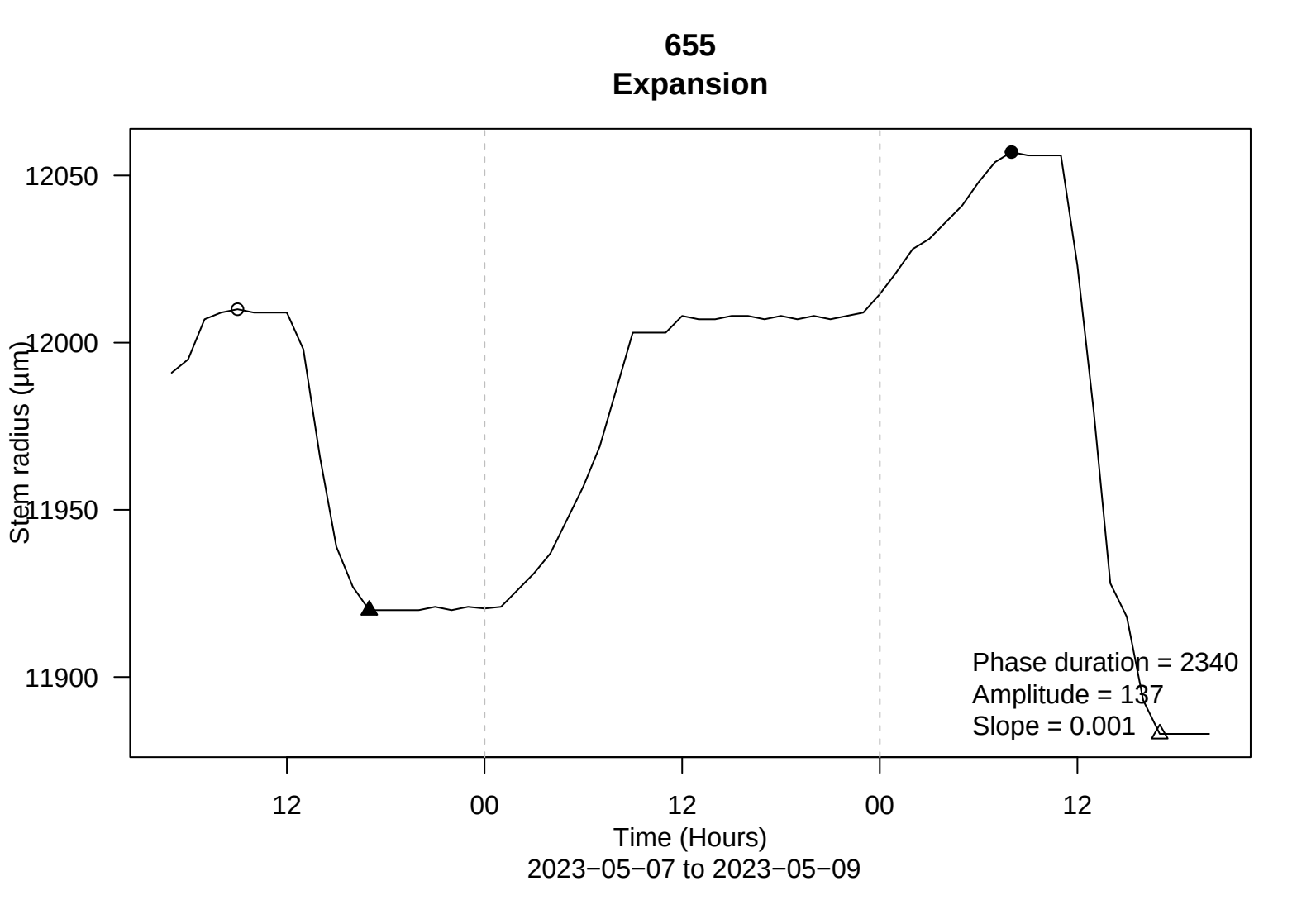

655
Shrinkage
11905
11900
11895
11890
11885
11880
11875
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = 0
00
06
12
18
00
Time (Hours)
2023−05−05 to 2023−05−05

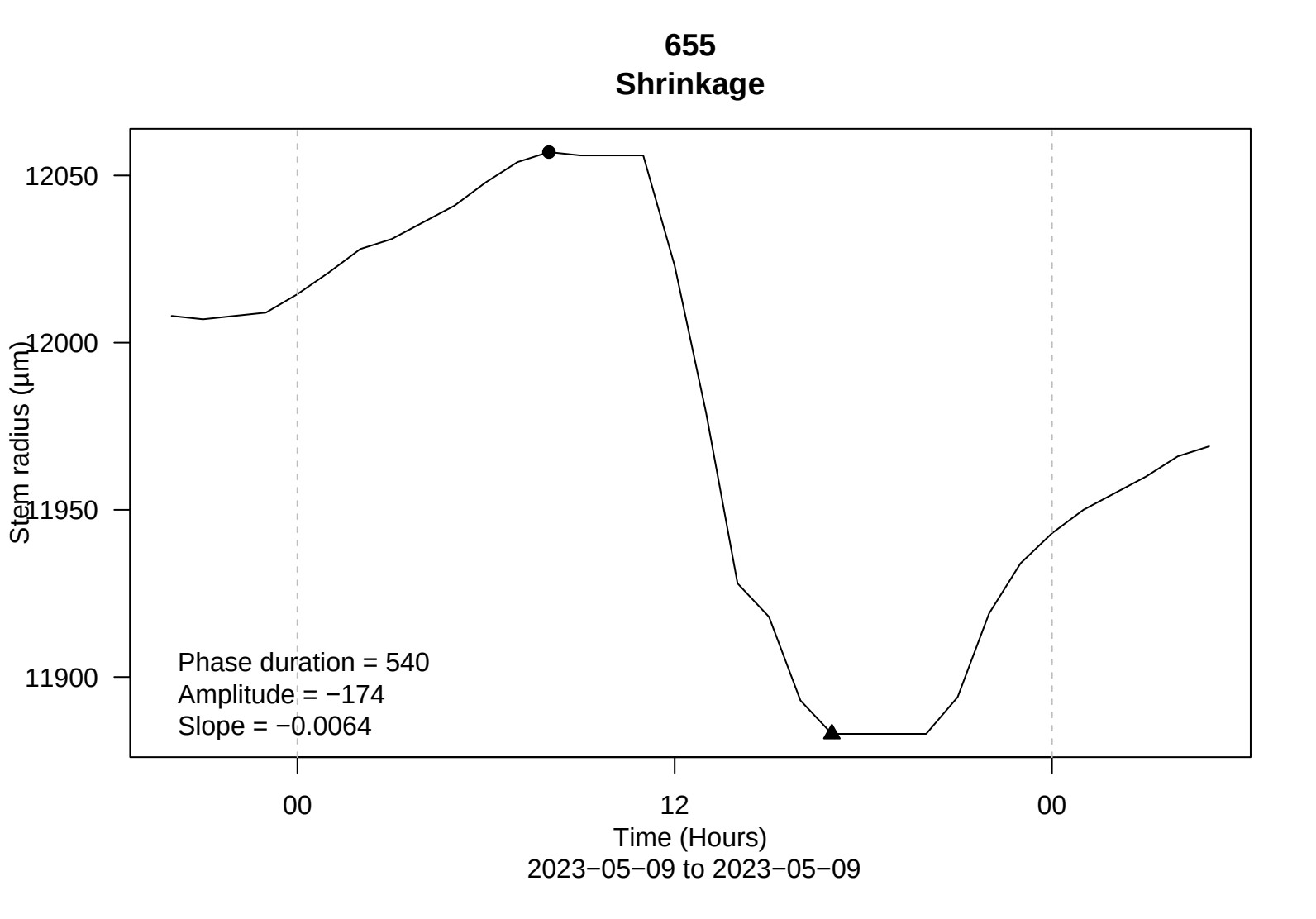

655
Expansion
11960
11940
11920
11900
Stem radius (µm)
Phase duration = 1260
Amplitude = 62
Slope = 8e−04
00
12
00
12
Time (Hours)
2023−05−05 to 2023−05−06

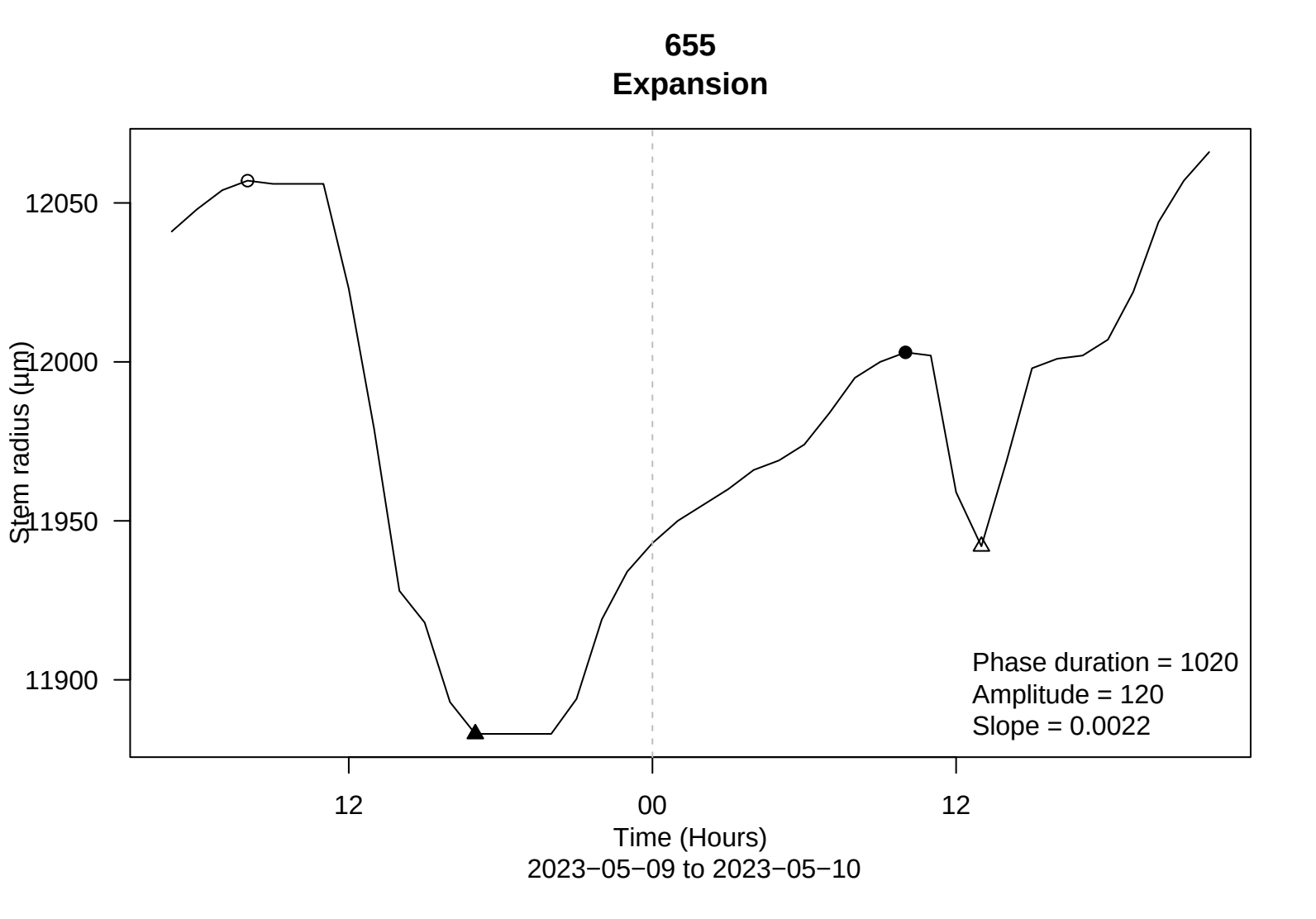

655
Shrinkage
11980
11960
11940
11920
Stem radius (µm)
Phase duration = 420
Amplitude = −25
Slope = −0.0012
00
12
00
Time (Hours)
2023−05−06 to 2023−05−06

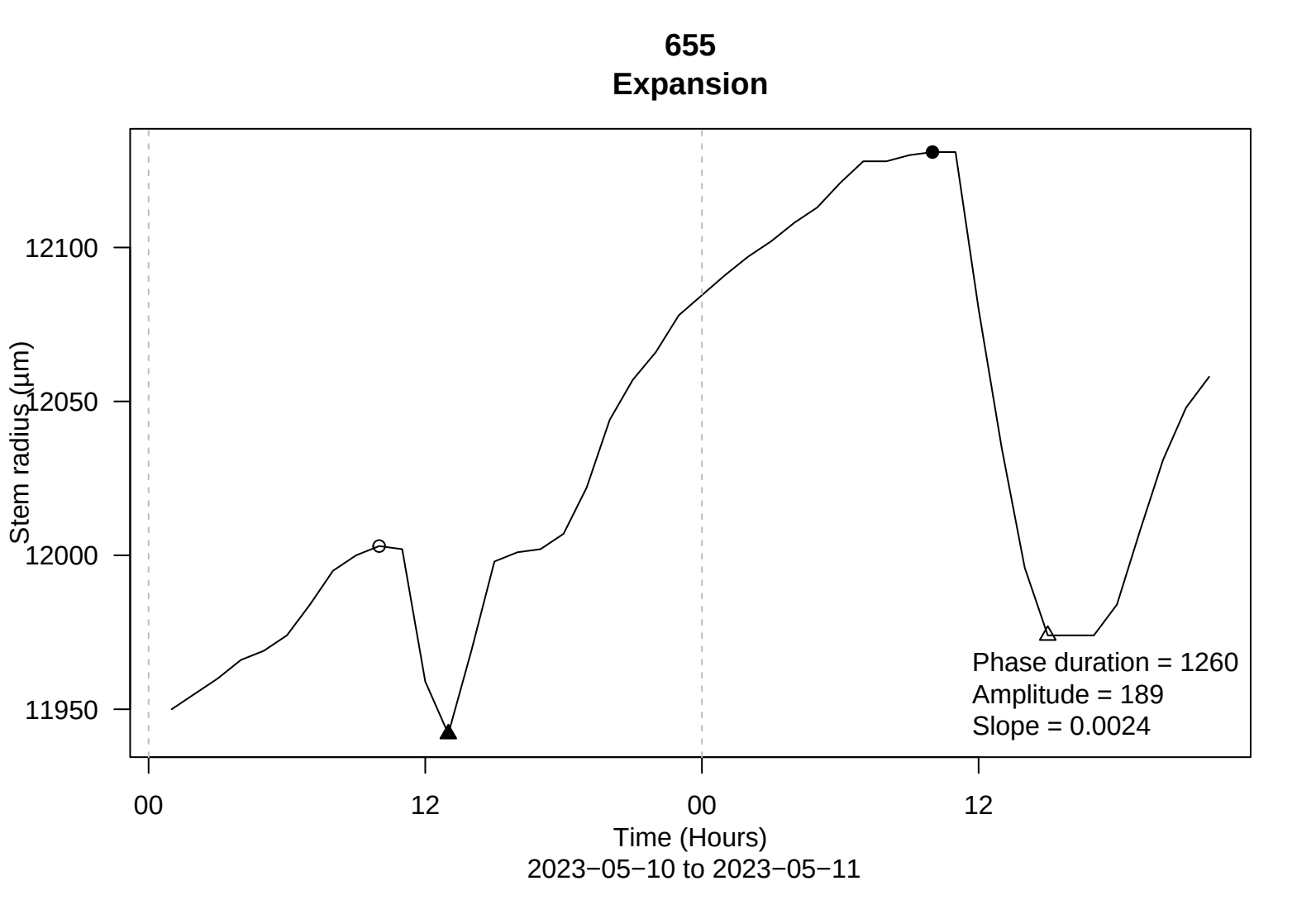

655
Expansion
12000
11980
11960
11940
11920
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−06 to 2023−05−07
Phase duration = 960
Amplitude = 66
Slope = 0.0012

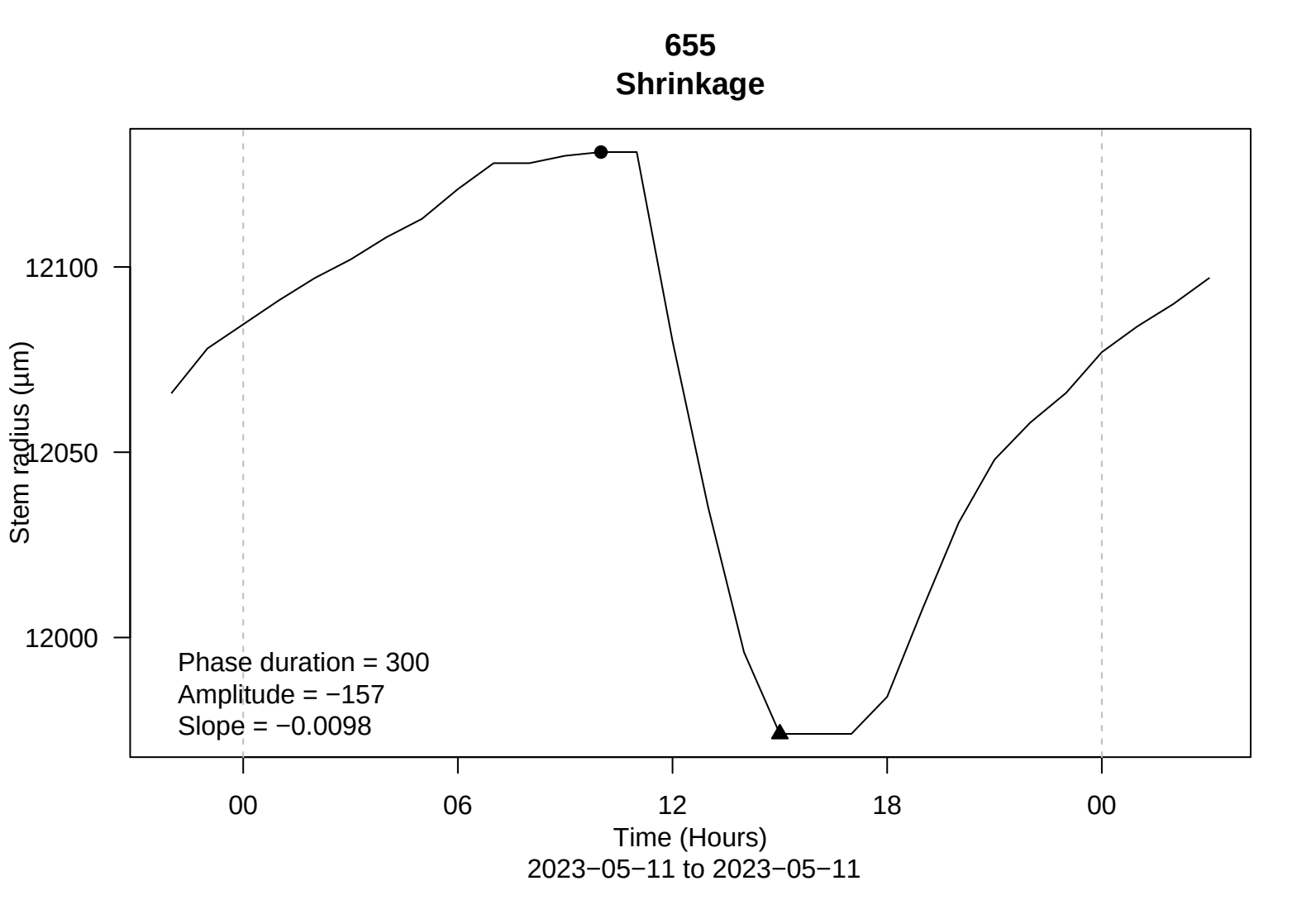

655
Shrinkage
12000
11980
11960
11940
11920
Stem radius (µm)
Phase duration = 480
Amplitude = −90
Slope = −0.0037
00
12
00
Time (Hours)
2023−05−07 to 2023−05−07

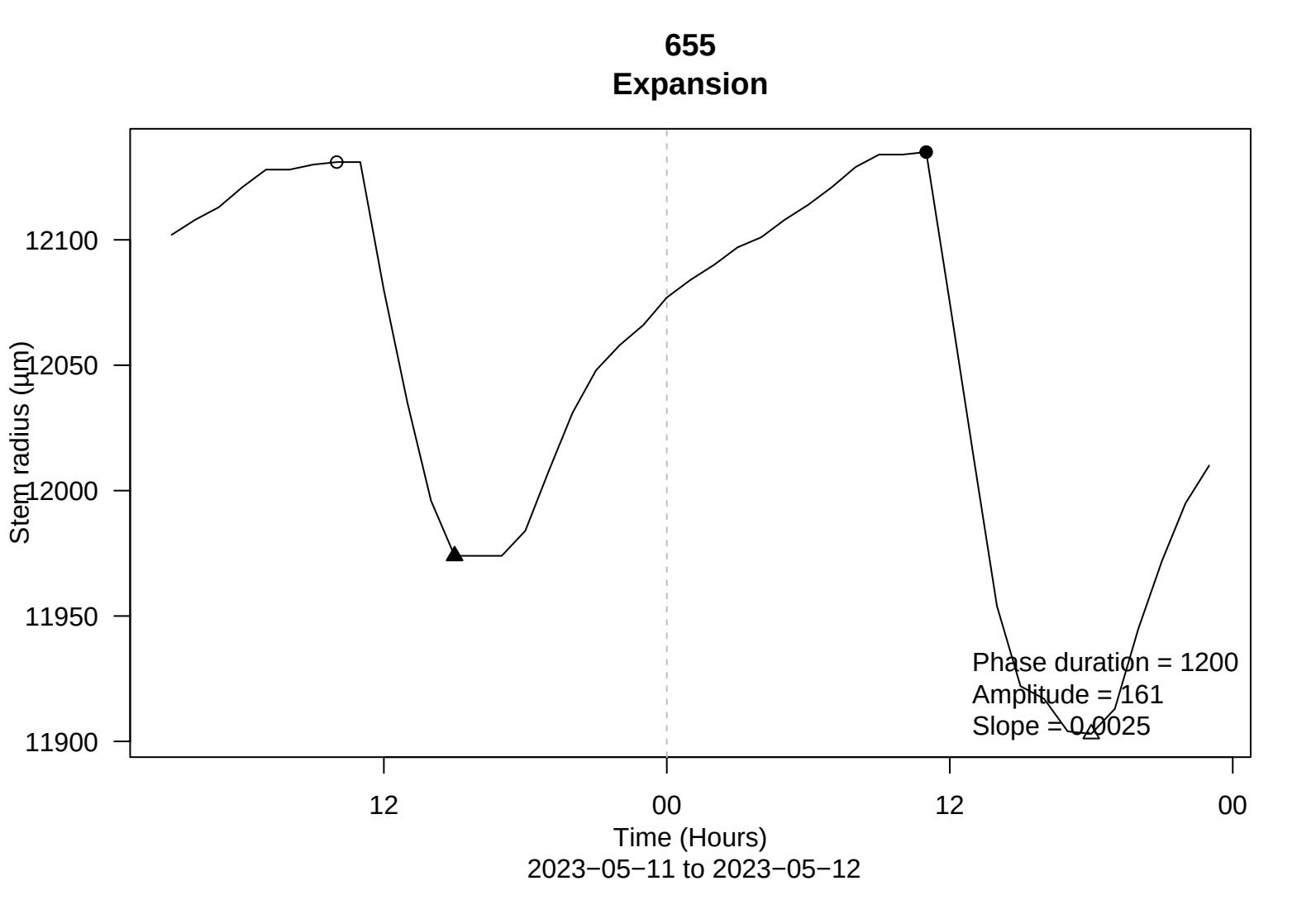

655
Expansion
12050
12000
11950
11900
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2023−05−07 to 2023−05−09
Phase duration = 2340
Amplitude = 137
Slope = 0.001

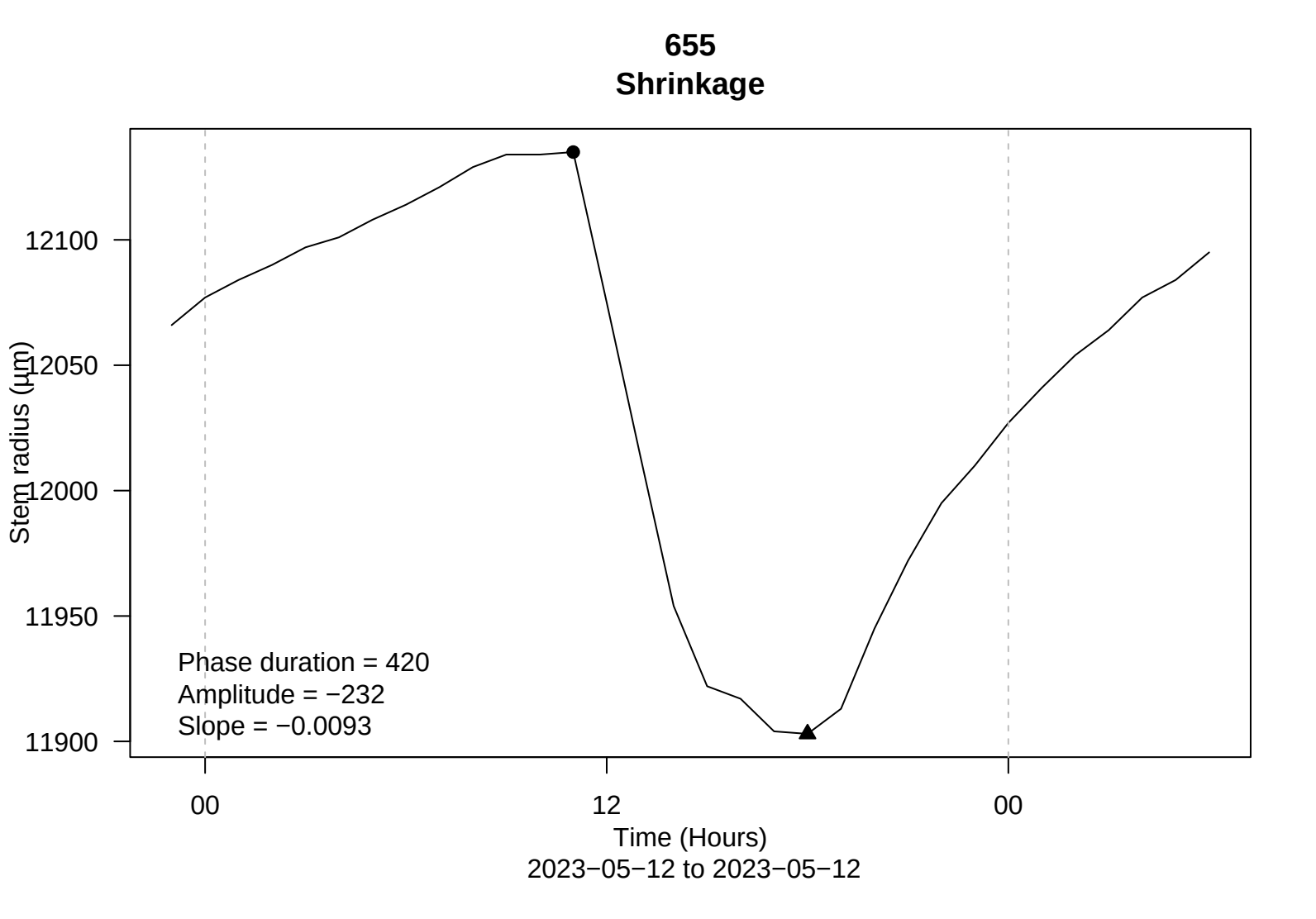

655
Shrinkage
12050
12000
11950
11900
Stem radius (µm)
Phase duration = 540
Amplitude = −174
Slope = −0.0064
00
12
00
Time (Hours)
2023−05−09 to 2023−05−09

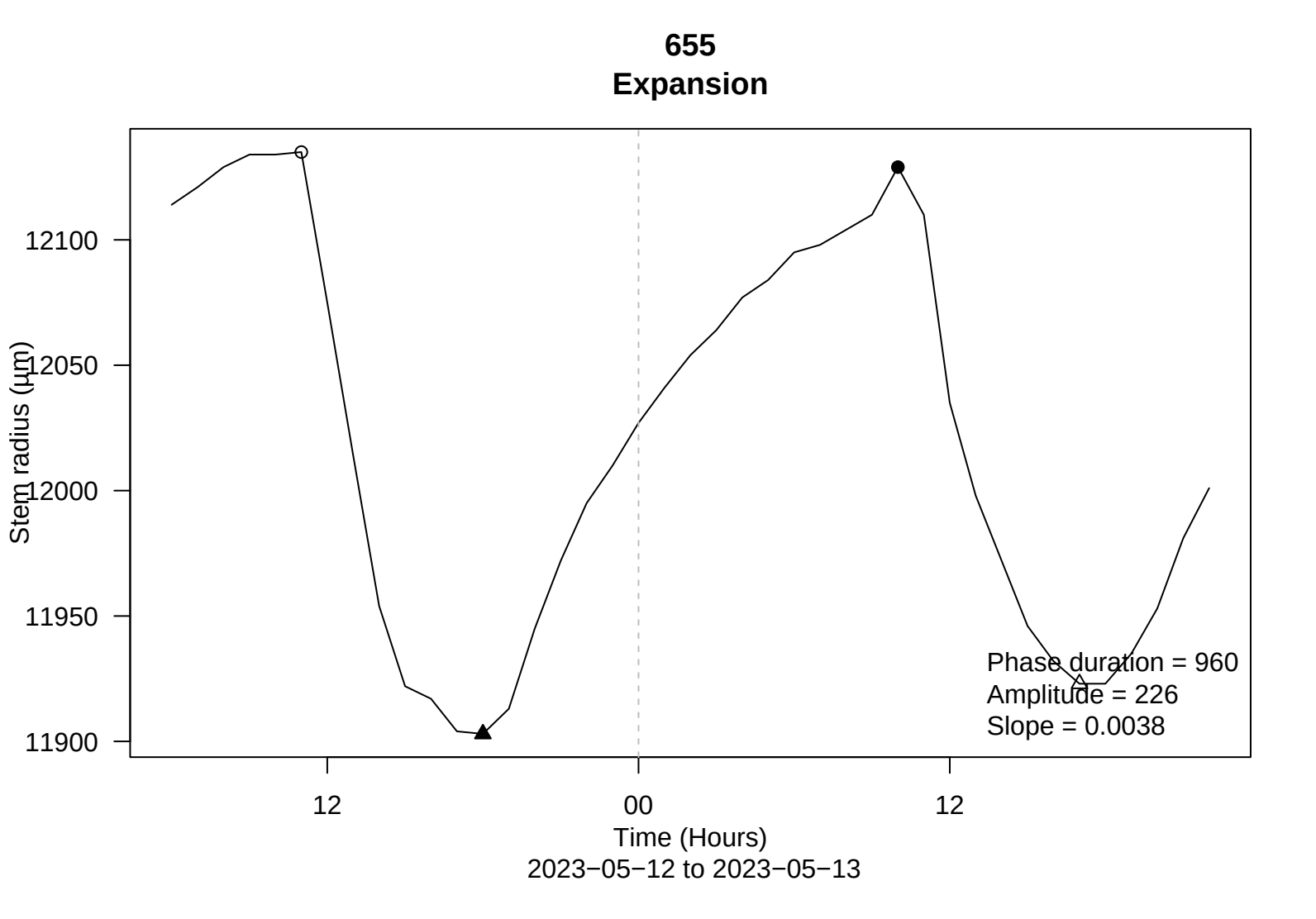

655
Expansion
12050
12000
11950
11900
Stem radius (µm)
Phase duration = 1020
Amplitude = 120
Slope = 0.0022
12
00
12
Time (Hours)
2023−05−09 to 2023−05−10

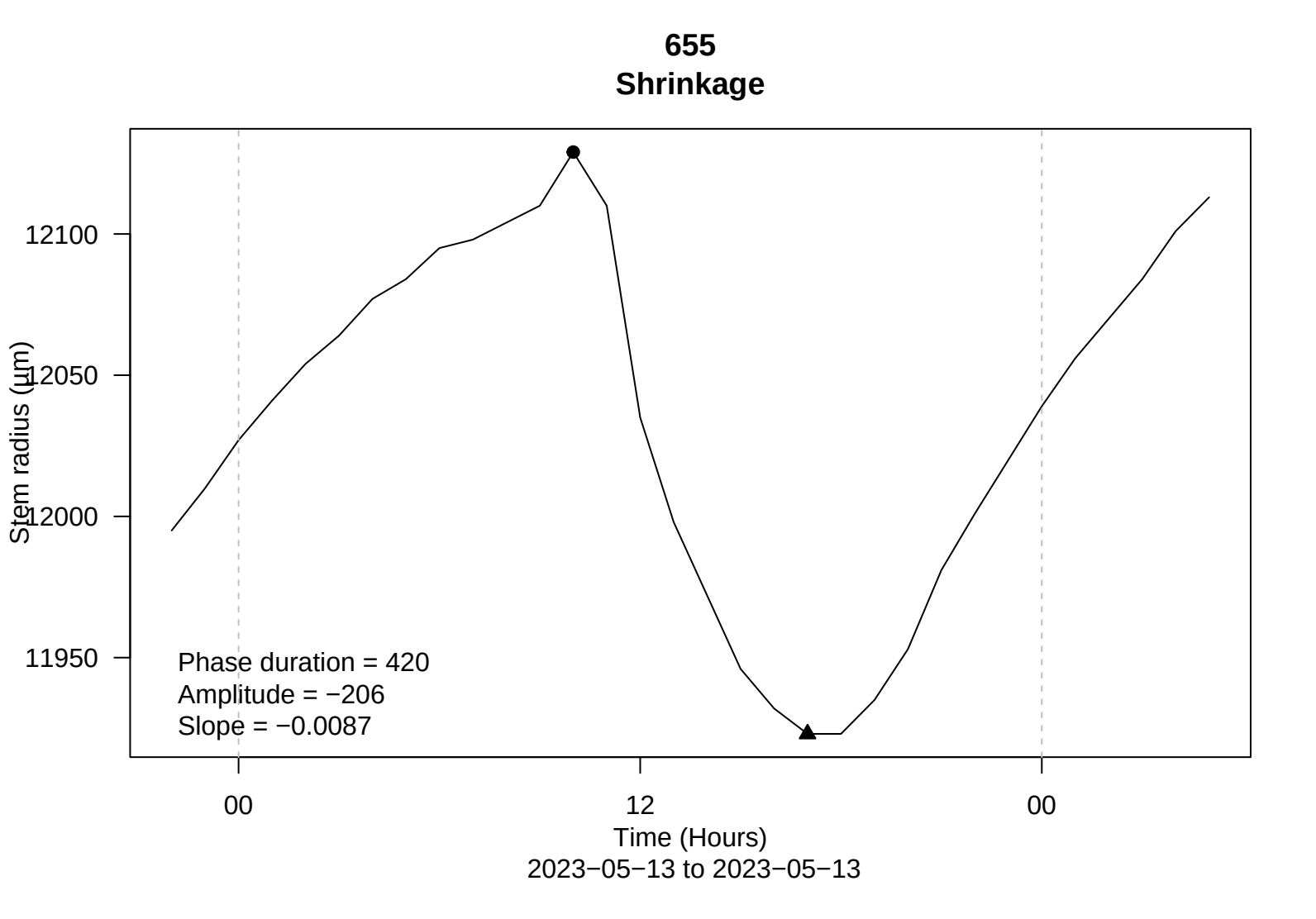

655
Expansion
12100
12050
12000
11950
Stem radius (µm)
00
12
00
12
Time (Hours)
2023−05−10 to 2023−05−11
Phase duration = 1260
Amplitude = 189
Slope = 0.0024

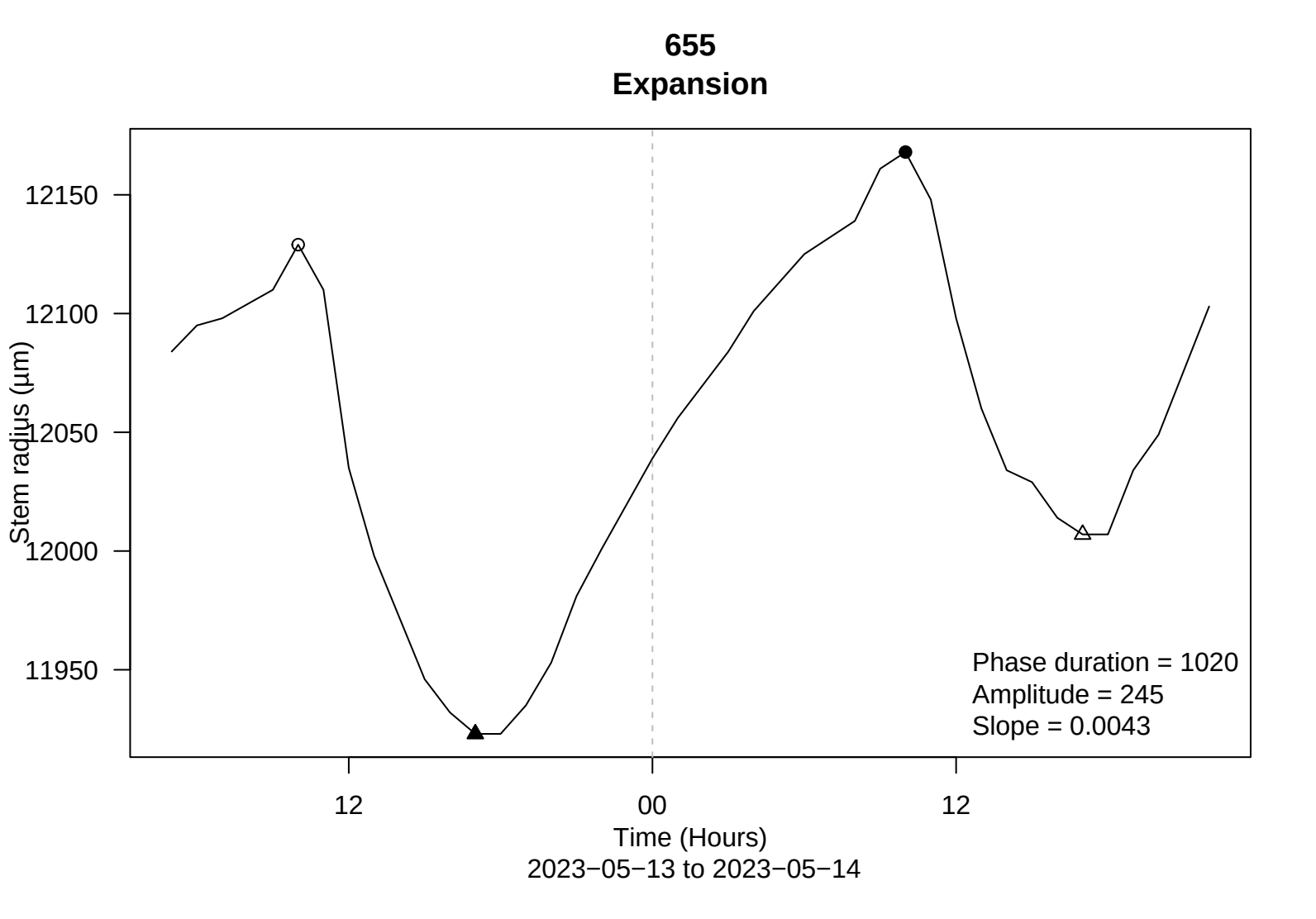

655
Shrinkage
12100
12050
12000
Stem radius (µm)
Phase duration = 300
Amplitude = −157
Slope = −0.0098
00
06
12
18
00
Time (Hours)
2023−05−11 to 2023−05−11

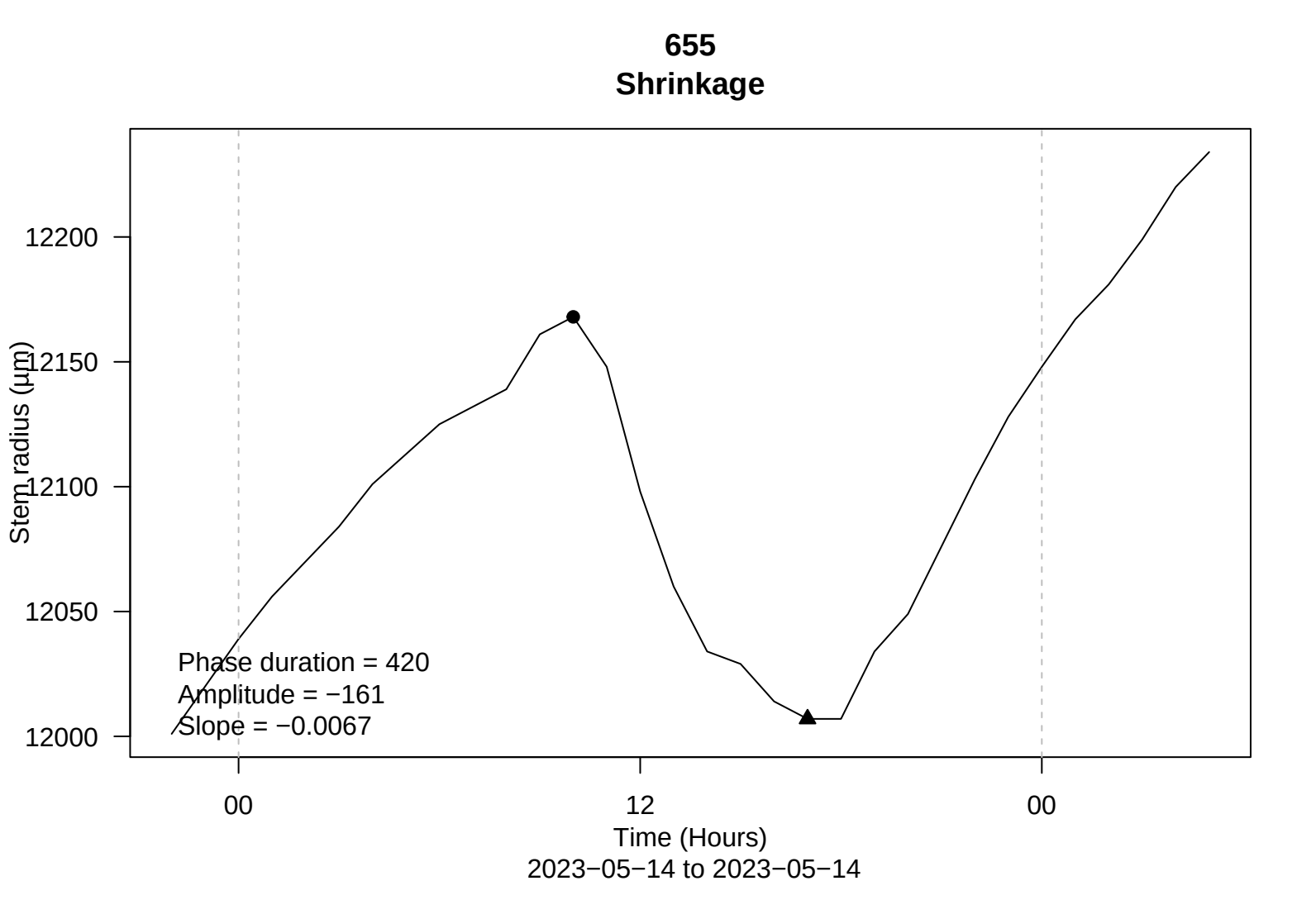

655
Expansion
12100
12050
12000
11950
11900
Stem radius (µm)
Phase duration = 1200
Amplitude = 161
Slope = 0.0025
12
00
12
00
Time (Hours)
2023−05−11 to 2023−05−12

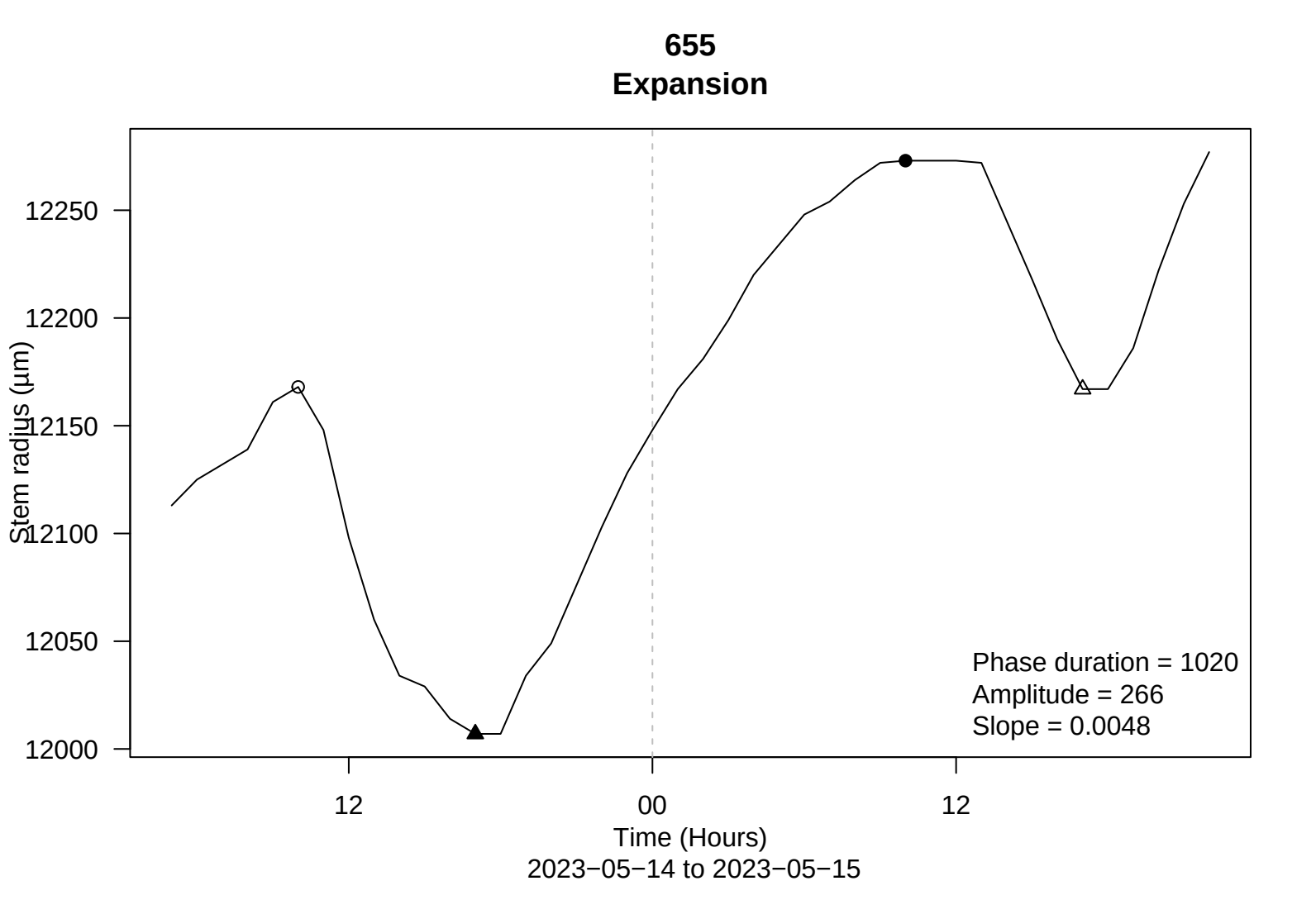

655
Shrinkage
12100
12050
12000
11950
11900
Stem radius (µm)
Phase duration = 420
Amplitude = −232
Slope = −0.0093
00
12
00
Time (Hours)
2023−05−12 to 2023−05−12

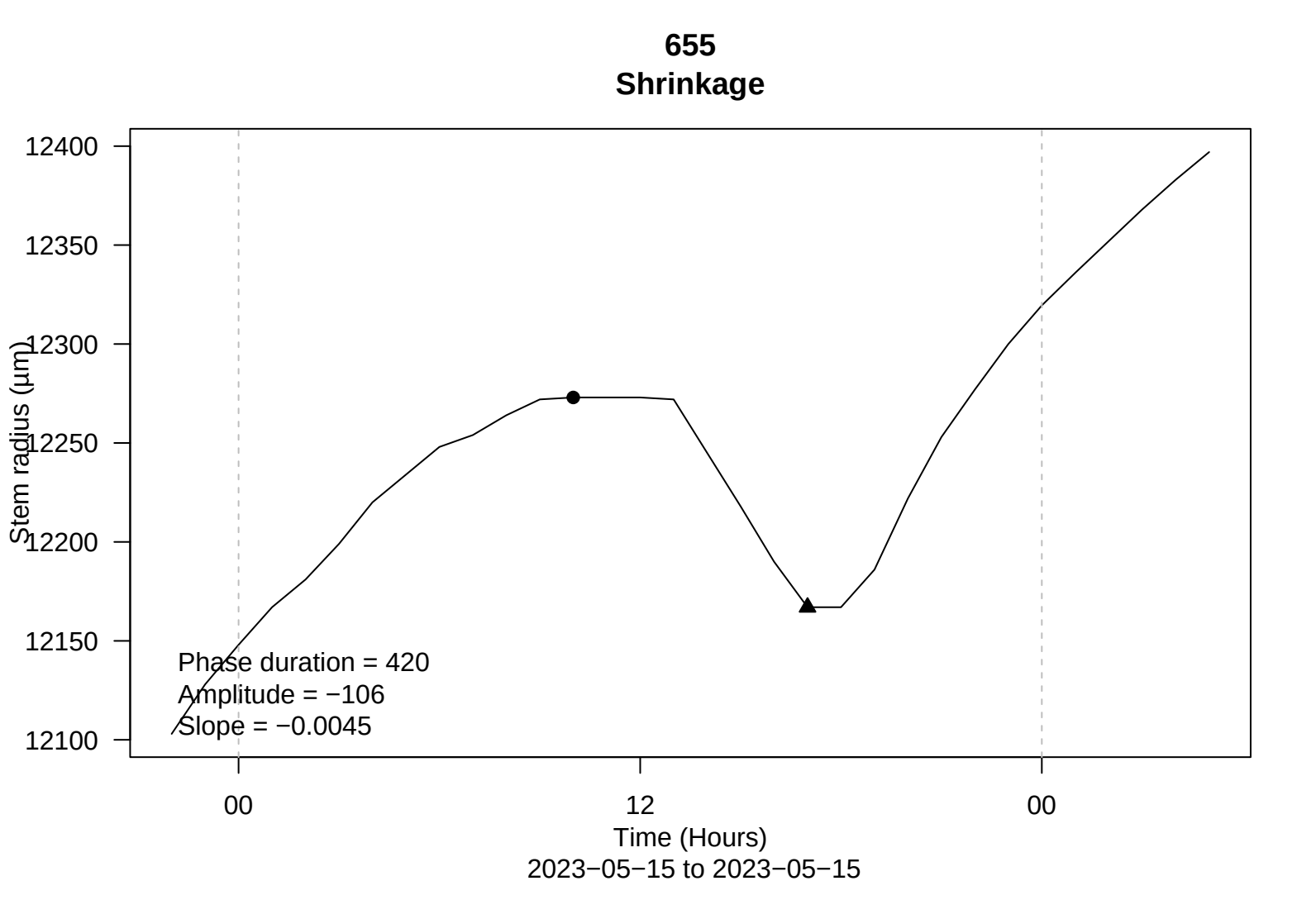

655
Expansion
12100
12050
12000
11950
11900
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−12 to 2023−05−13
Phase duration = 960
Amplitude = 226
Slope = 0.0038

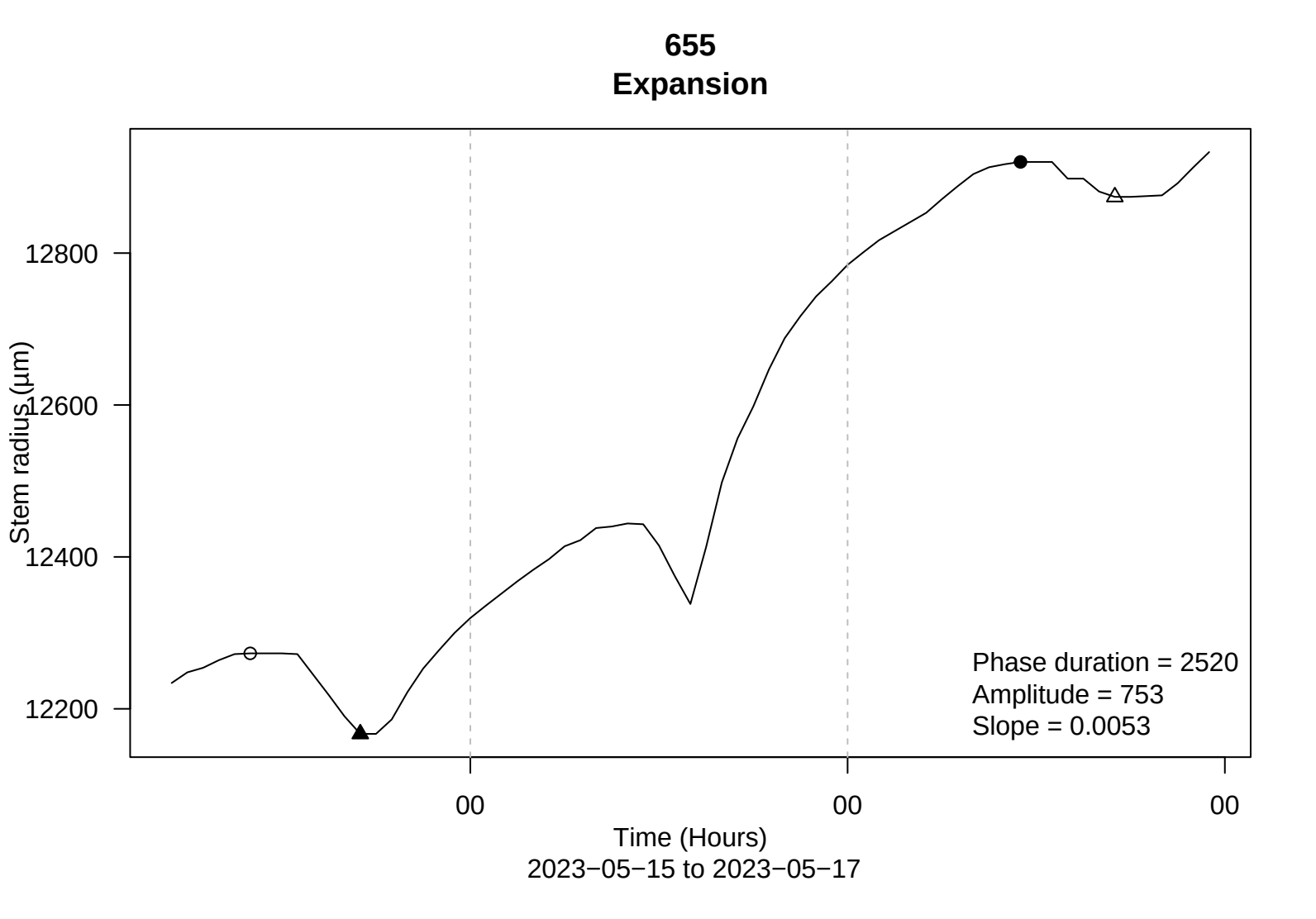

655
Shrinkage
12100
12050
12000
11950
Stem radius (µm)
Phase duration = 420
Amplitude = −206
Slope = −0.0087
00
12
00
Time (Hours)
2023−05−13 to 2023−05−13

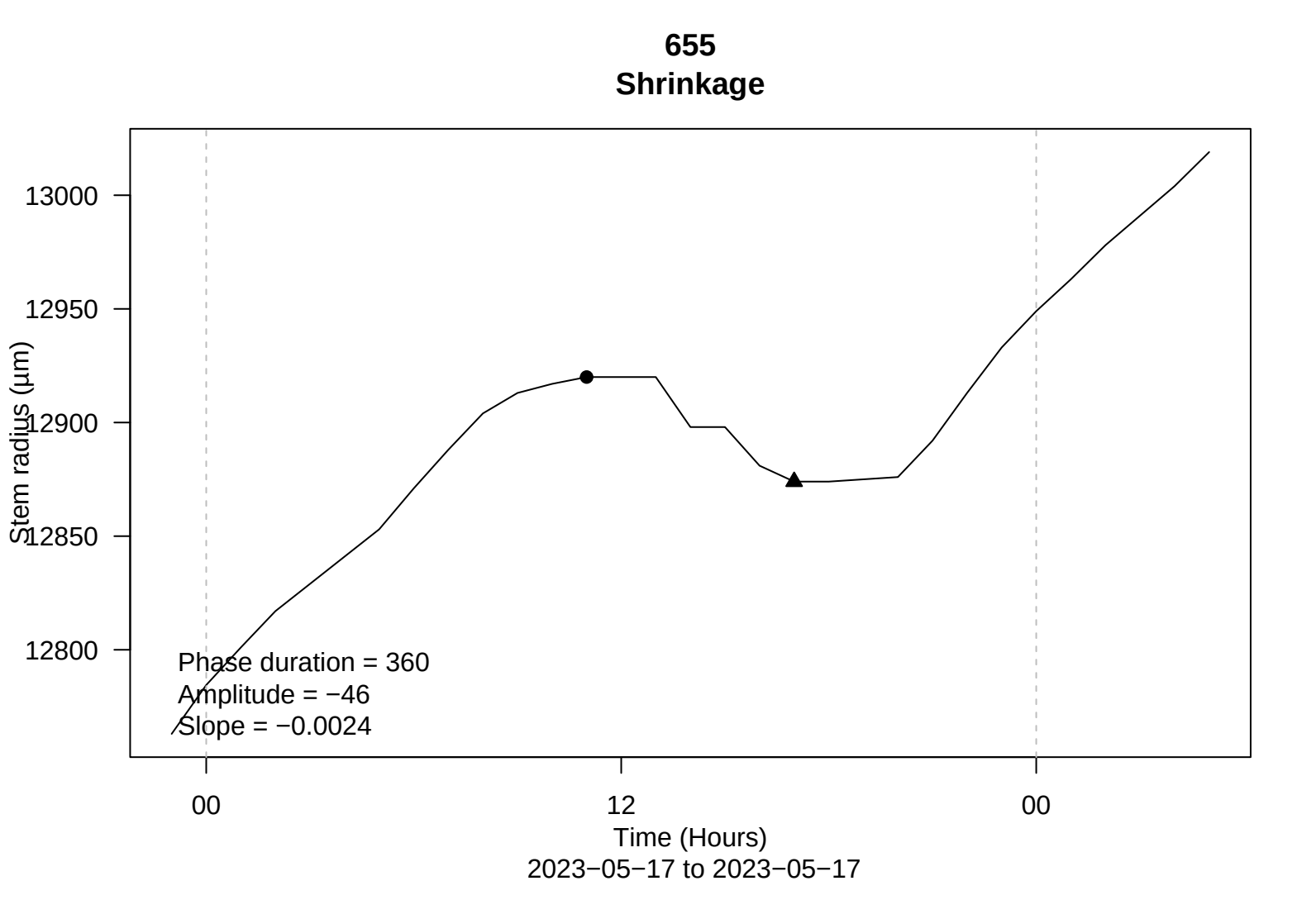

655
Expansion
12150
12100
12050
12000
11950
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−13 to 2023−05−14
Phase duration = 1020
Amplitude = 245
Slope = 0.0043

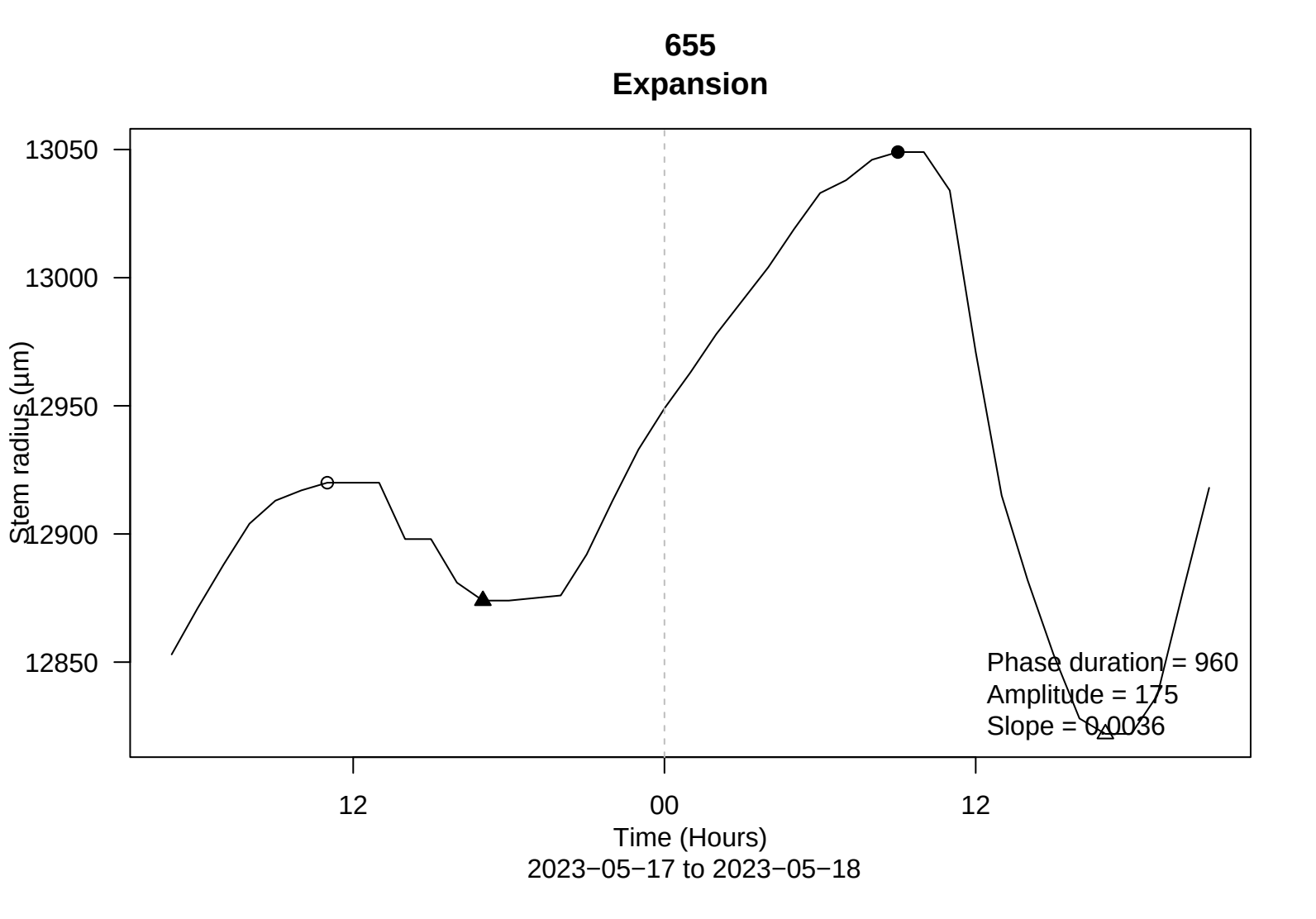

655
Shrinkage
12200
12150
12100
12050
12000
Stem radius (µm)
Phase duration = 420
Amplitude = −161
Slope = −0.0067
00
12
00
Time (Hours)
2023−05−14 to 2023−05−14

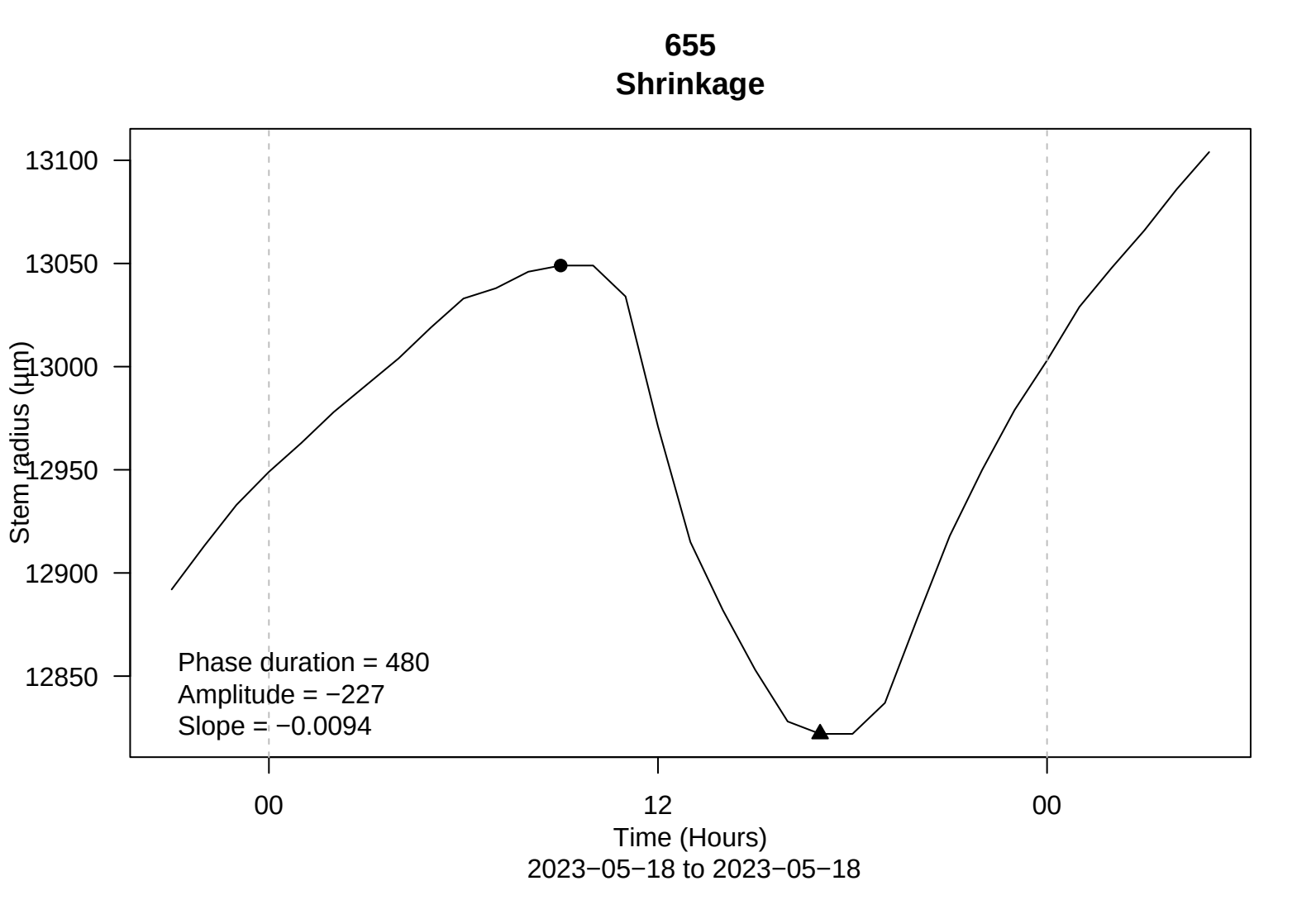

655
Expansion
12250
12200
12150
12100
12050
12000
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−14 to 2023−05−15
Phase duration = 1020
Amplitude = 266
Slope = 0.0048

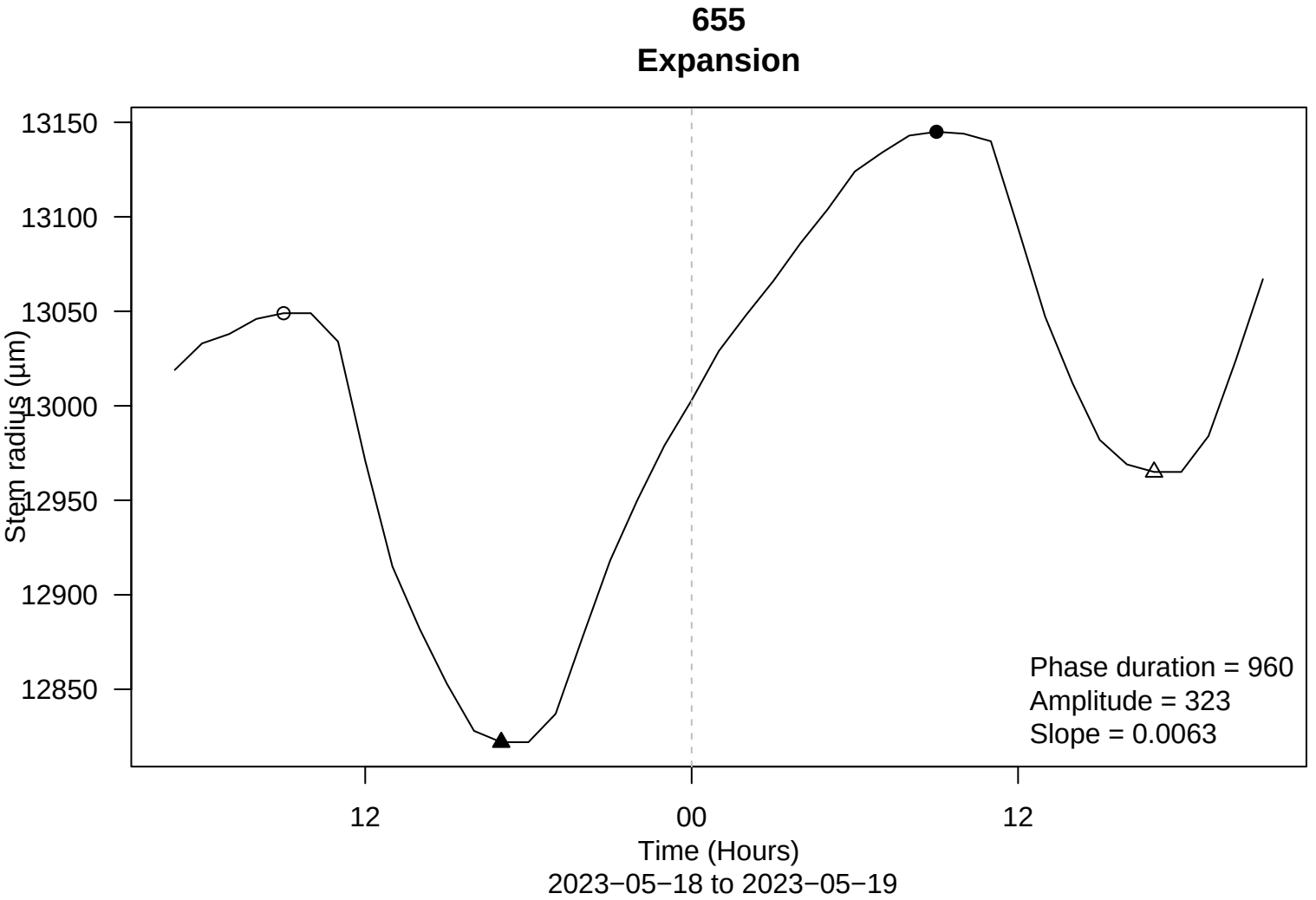

655
Shrinkage
12400
12350
12300
12250
12200
12150
12100
Stem radius (µm)
Phase duration = 420
Amplitude = −106
Slope = −0.0045
00
12
00
Time (Hours)
2023−05−15 to 2023−05−15

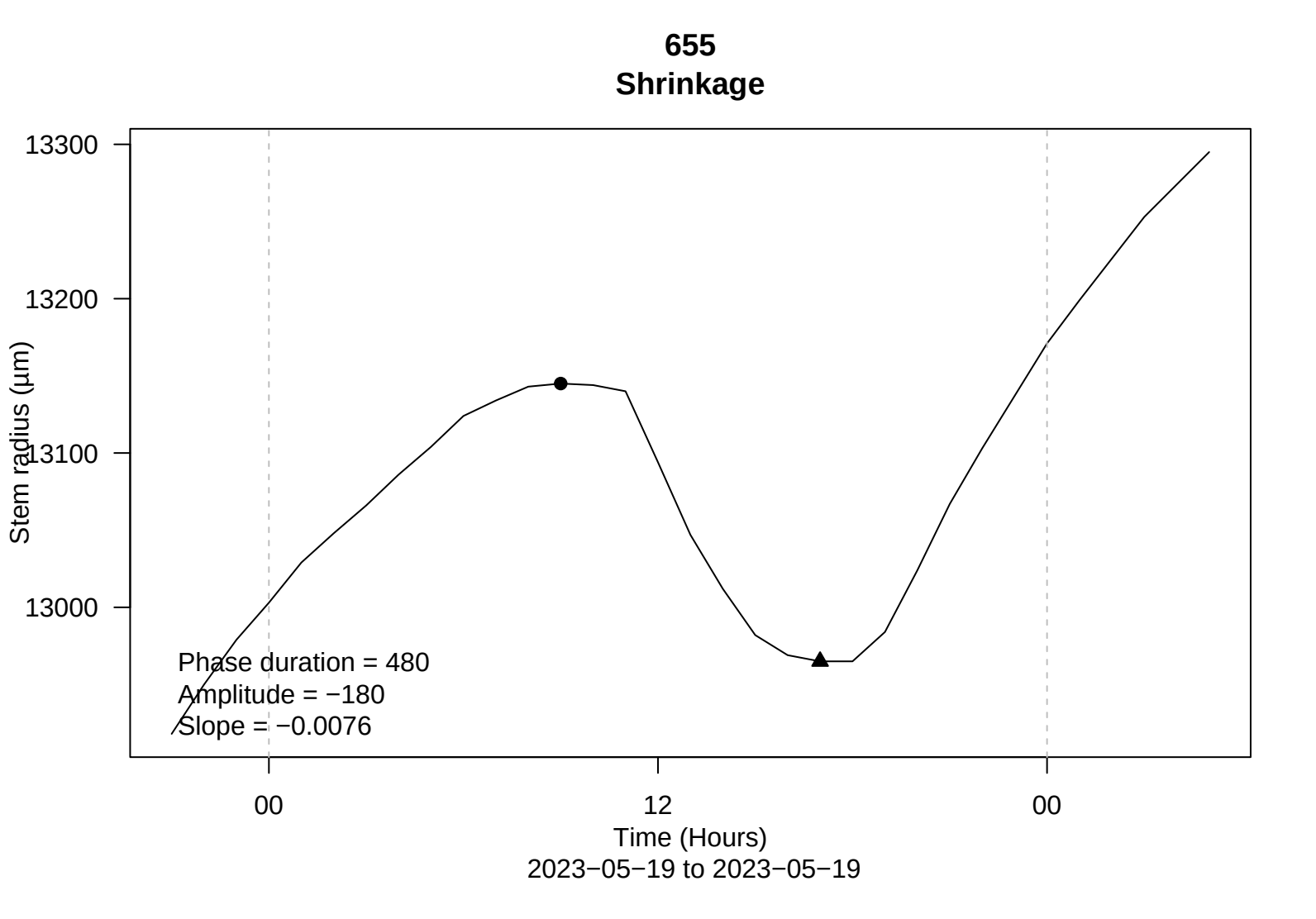

655
Expansion
12800
12600
12400
12200
Stem radius (µm)
Phase duration = 2520
Amplitude = 753
Slope = 0.0053
00
00
00
Time (Hours)
2023−05−15 to 2023−05−17

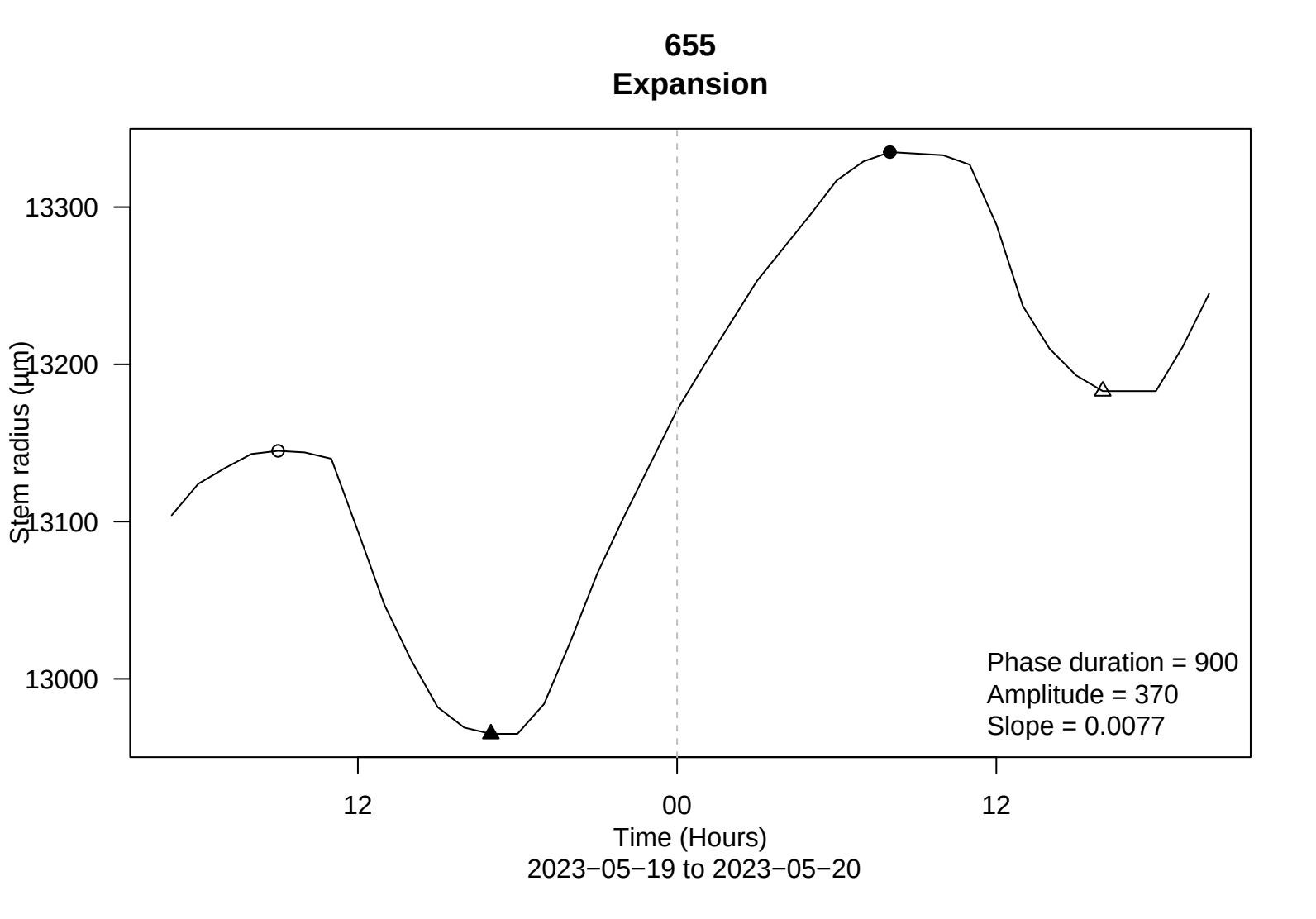

655
Shrinkage
13000
12950
12900
12850
12800
Stem radius (µm)
Phase duration = 360
Amplitude = −46
Slope = −0.0024
00
12
00
Time (Hours)
2023−05−17 to 2023−05−17

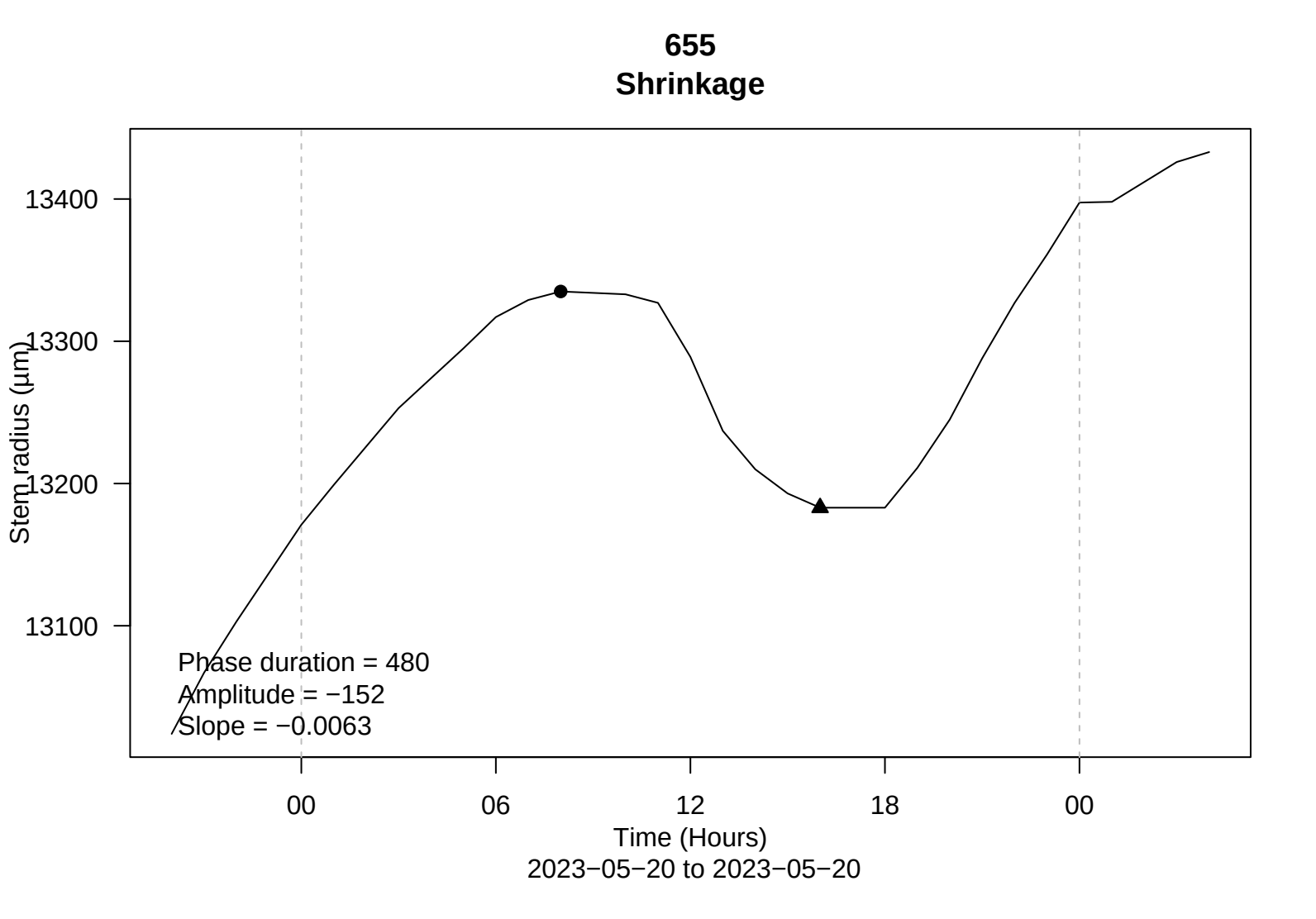

655
Expansion
13050
13000
12950
12900
12850
Stem radius (µm)
Phase duration = 960
Amplitude = 175
Slope = 0.0036
12
00
12
Time (Hours)
2023−05−17 to 2023−05−18

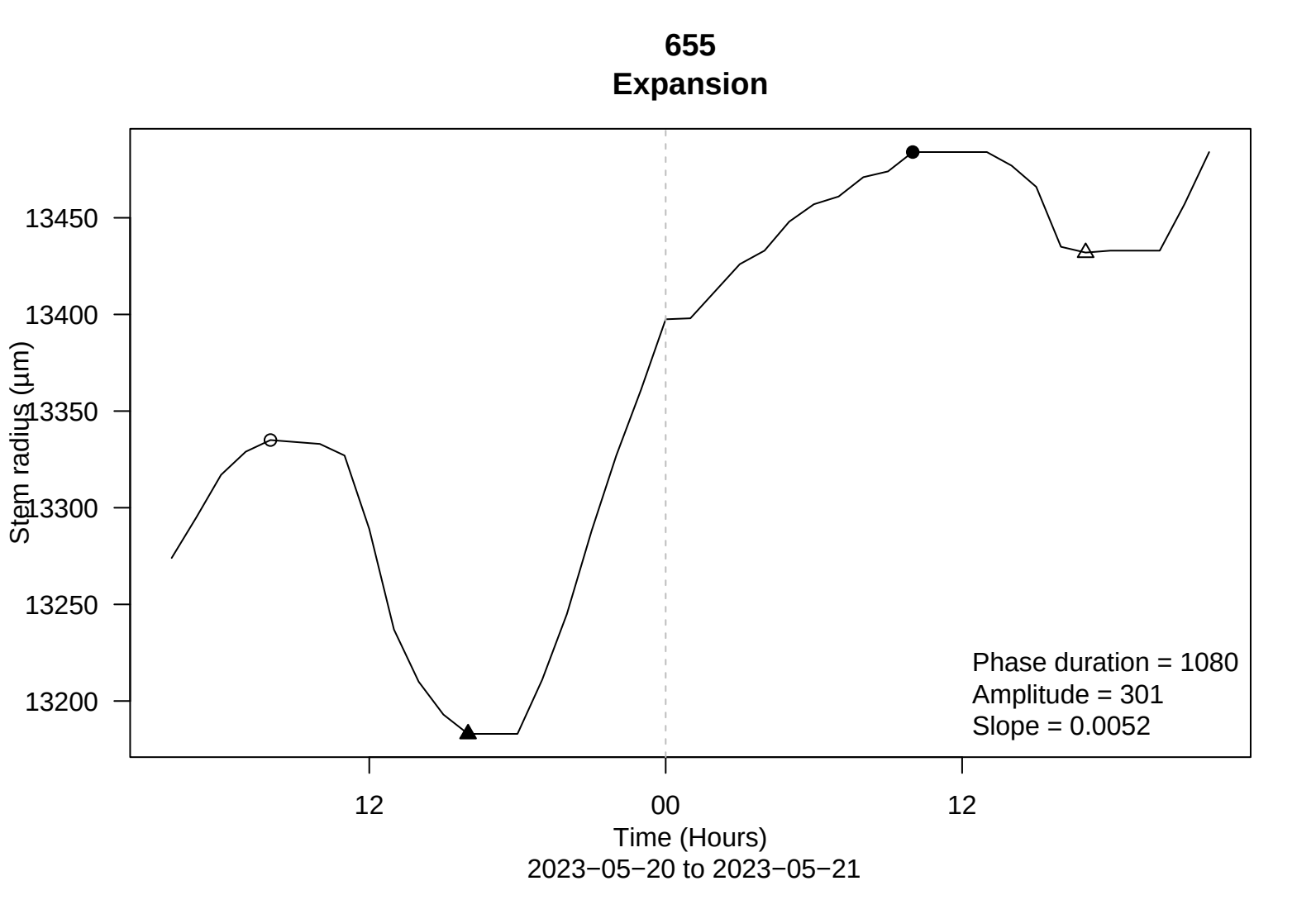

655
Shrinkage
13100
13050
13000
12950
12900
12850
Stem radius (µm)
Phase duration = 480
Amplitude = −227
Slope = −0.0094
00
12
00
Time (Hours)
2023−05−18 to 2023−05−18

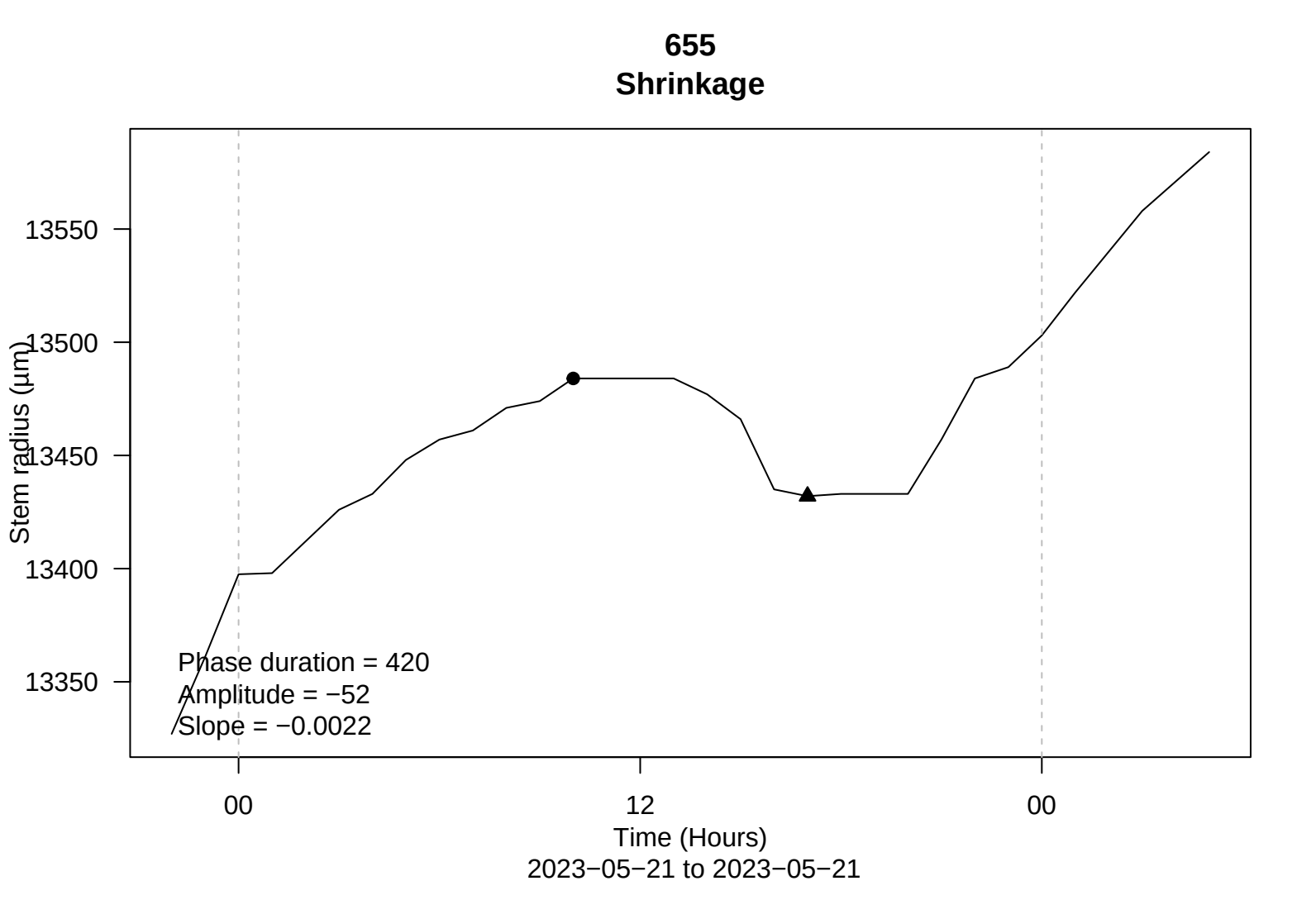

655
Expansion
13150
13100
13050
13000
12950
12900
12850
Stem radius (µm)
Phase duration = 960
Amplitude = 323
Slope = 0.0063
12
00
12
Time (Hours)
2023−05−18 to 2023−05−19

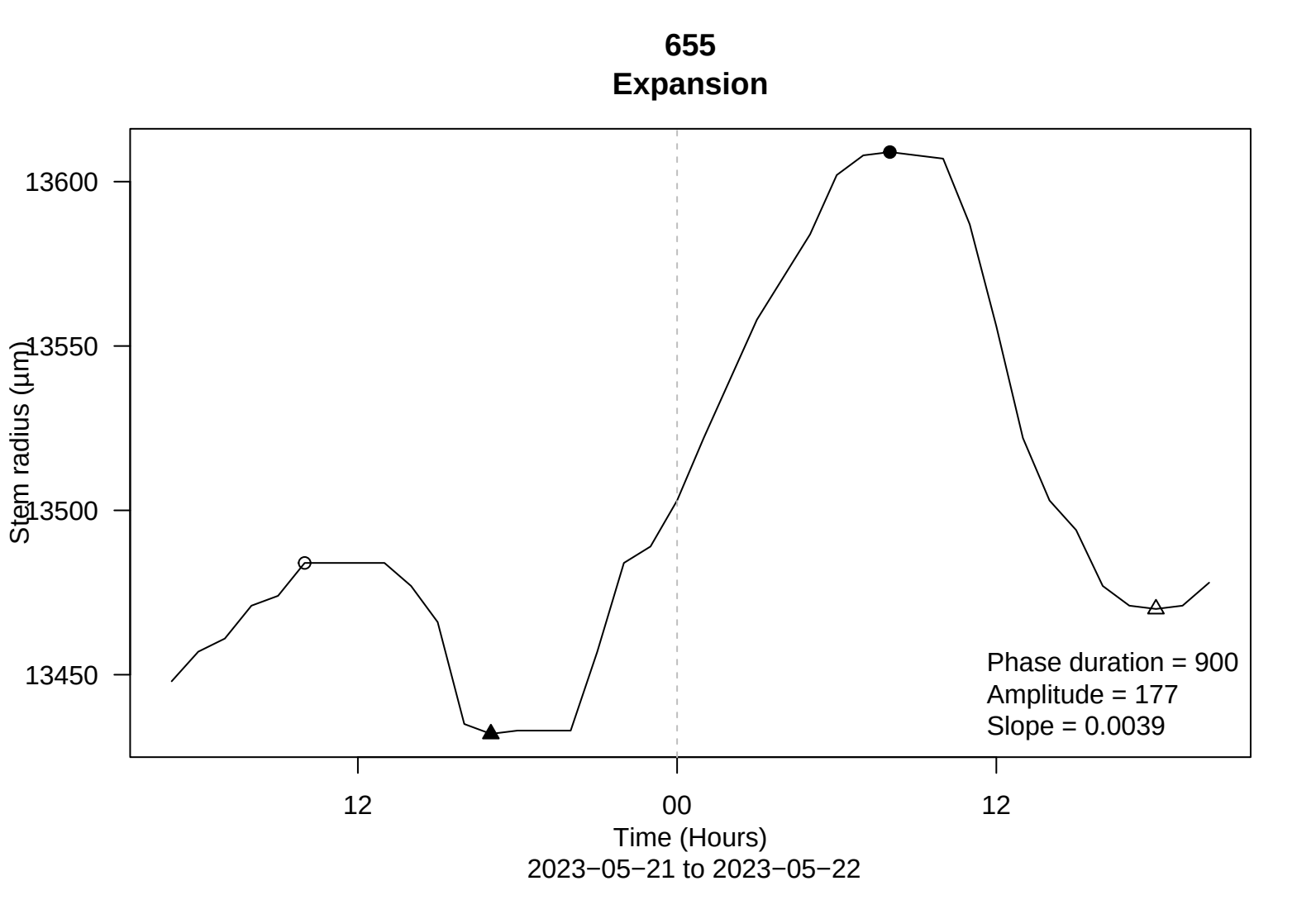

655
Shrinkage
13300
13200
13100
13000
Stem radius (µm)
Phase duration = 480
Amplitude = −180
Slope = −0.0076
00
12
00
Time (Hours)
2023−05−19 to 2023−05−19

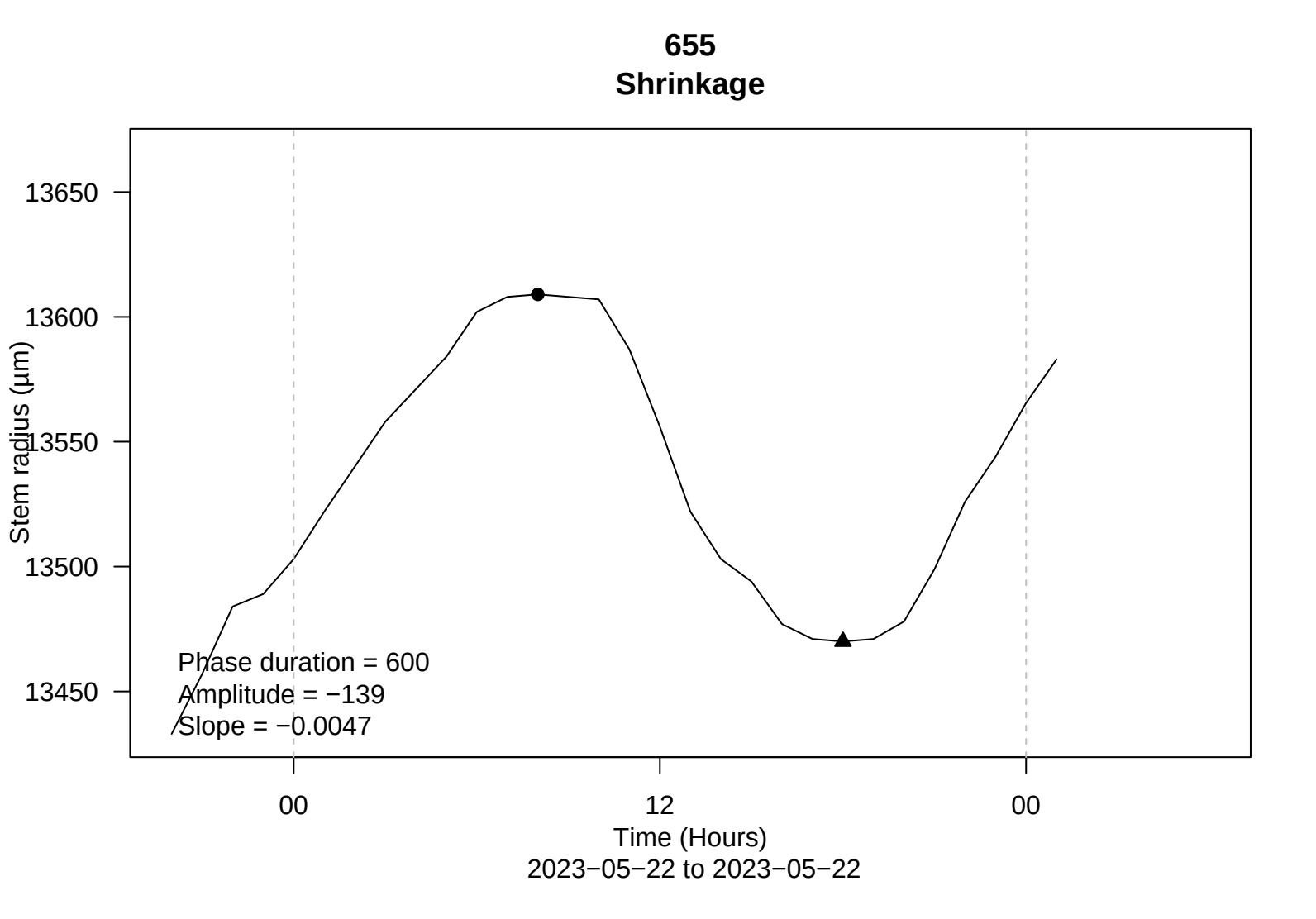

655
Expansion
13300
13200
13100
13000
Stem radius (µm)
Phase duration = 900
Amplitude = 370
Slope = 0.0077
12
00
12
Time (Hours)
2023−05−19 to 2023−05−20

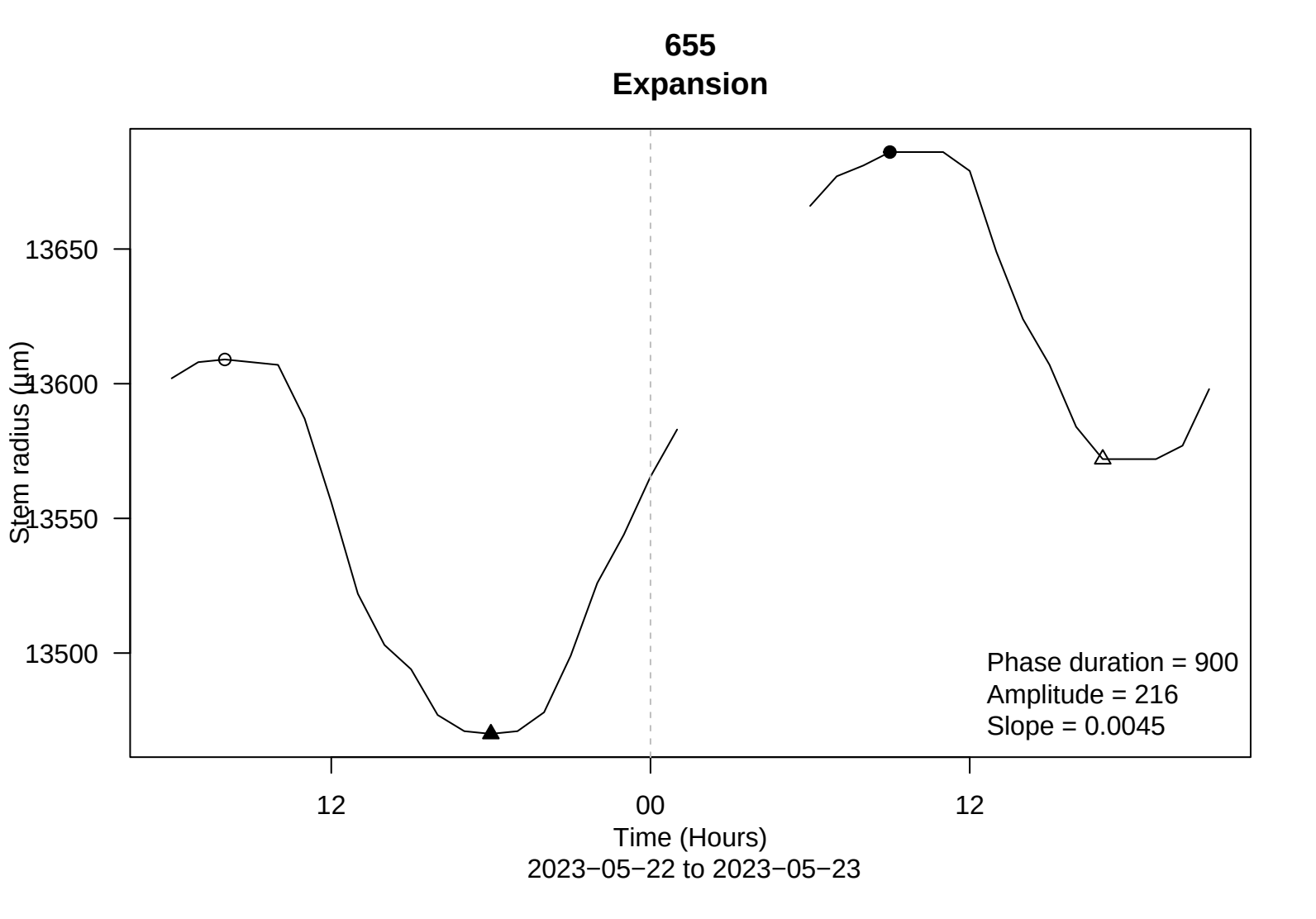

655
Shrinkage
13400
13300
13200
13100
Stem radius (µm)
Phase duration = 480
Amplitude = −152
Slope = −0.0063
00
06
12
18
00
Time (Hours)
2023−05−20 to 2023−05−20

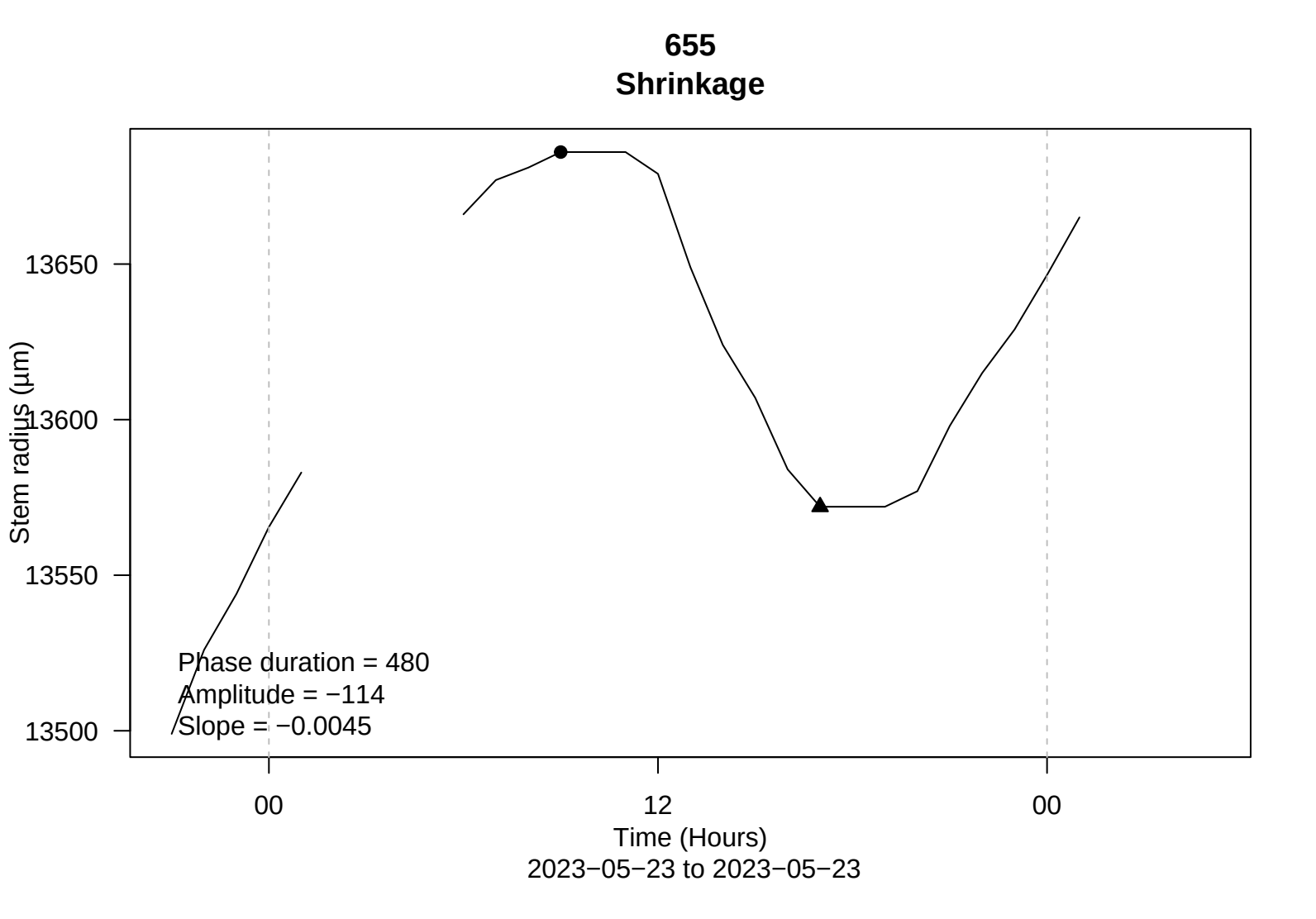

655
Expansion
13450
13400
13350
13300
13250
13200
Stem radius (µm)
Phase duration = 1080
Amplitude = 301
Slope = 0.0052
12
00
12
Time (Hours)
2023−05−20 to 2023−05−21

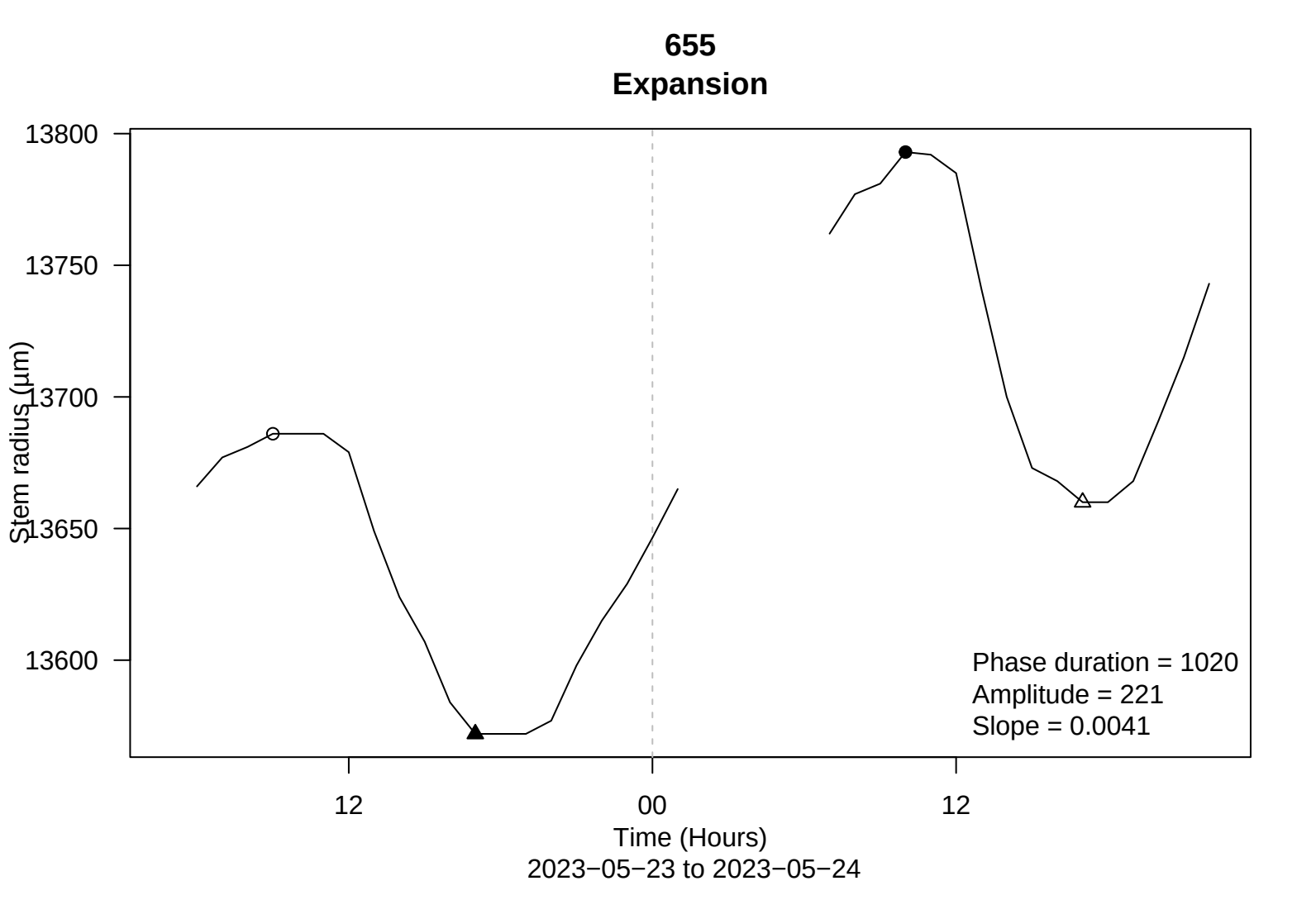

655
Shrinkage
13550
13500
13450
13400
13350
Stem radius (µm)
Phase duration = 420
Amplitude = −52
Slope = −0.0022
00
12
00
Time (Hours)
2023−05−21 to 2023−05−21

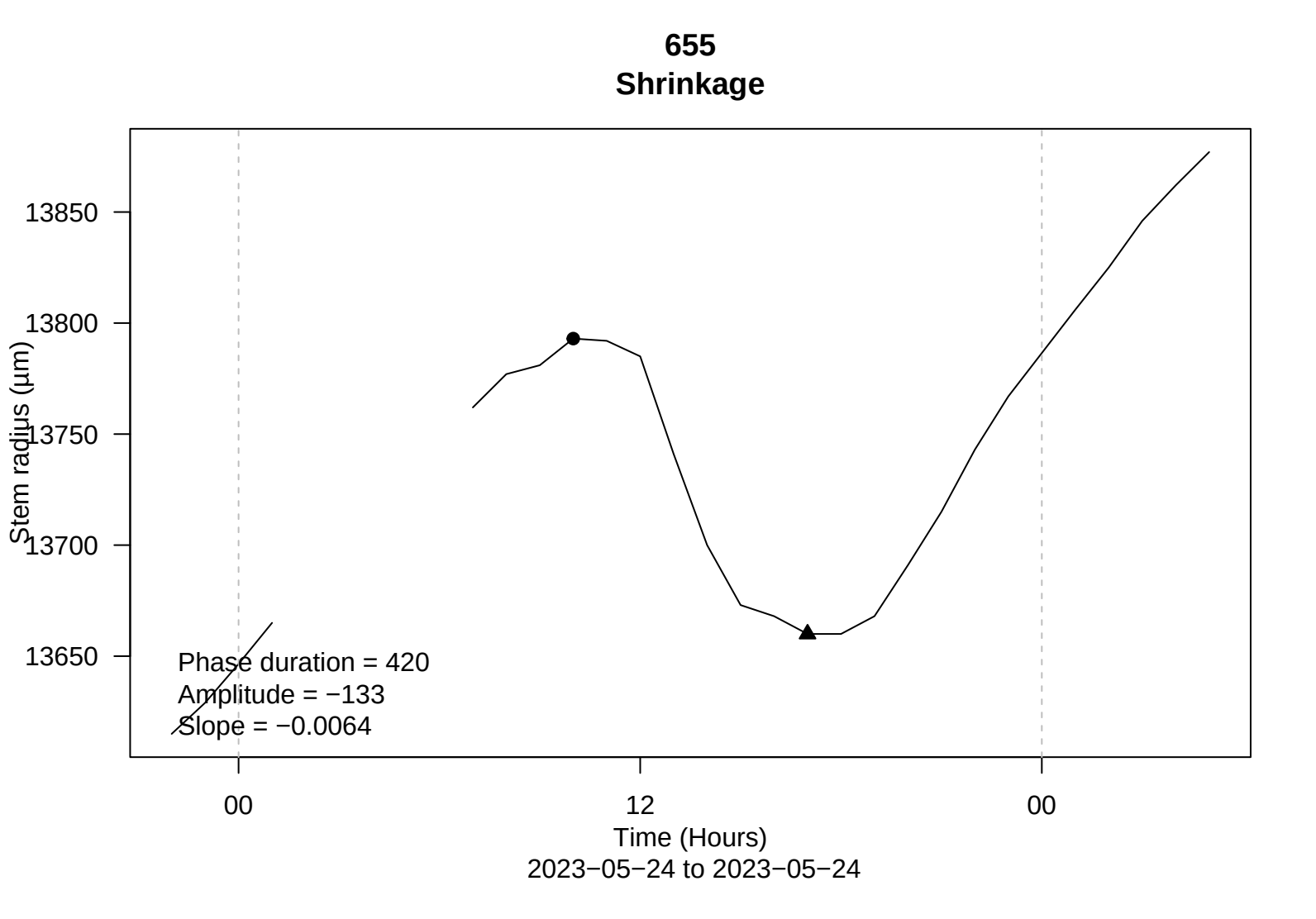

655
Expansion
13600
13550
13500
13450
Stem radius (µm)
Phase duration = 900
Amplitude = 177
Slope = 0.0039
12
00
12
Time (Hours)
2023−05−21 to 2023−05−22

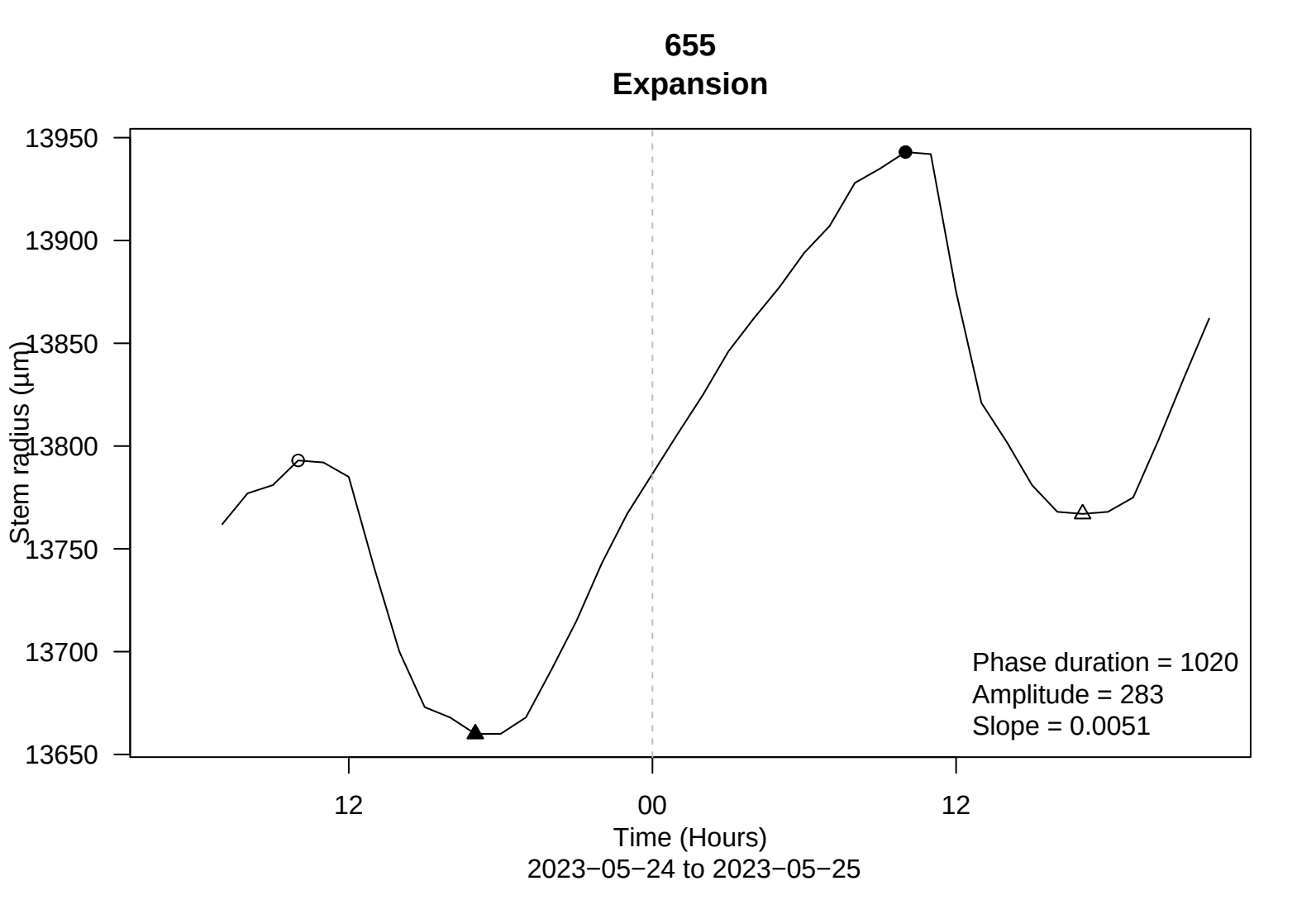

655
Shrinkage
13650
13600
13550
13500
13450
Stem radius (µm)
Phase duration = 600
Amplitude = −139
Slope = −0.0047
00
12
00
Time (Hours)
2023−05−22 to 2023−05−22

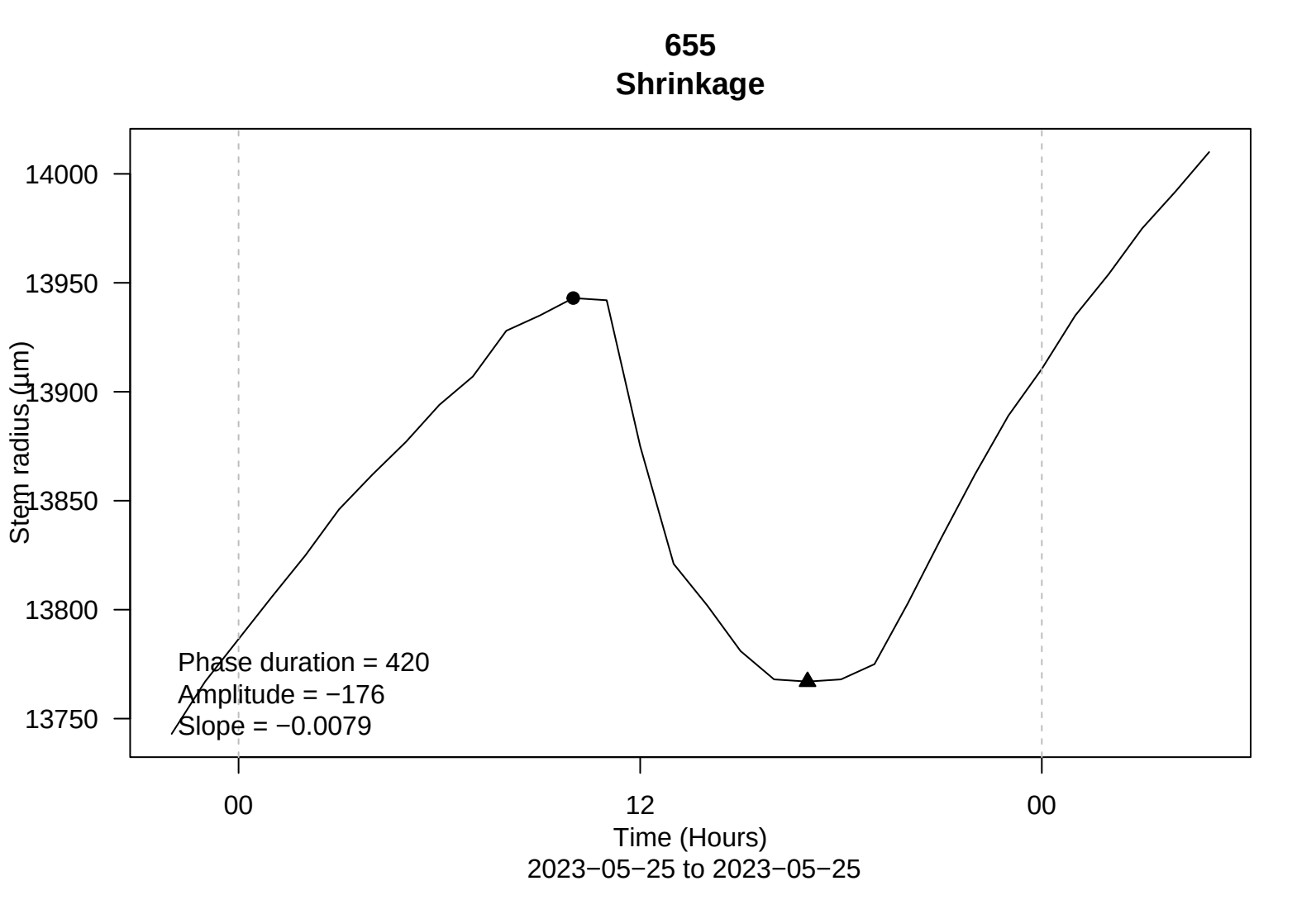

655
Expansion
13650
13600
13550
13500
Stem radius (µm)
Phase duration = 900
Amplitude = 216
Slope = 0.0045
12
00
12
Time (Hours)
2023−05−22 to 2023−05−23

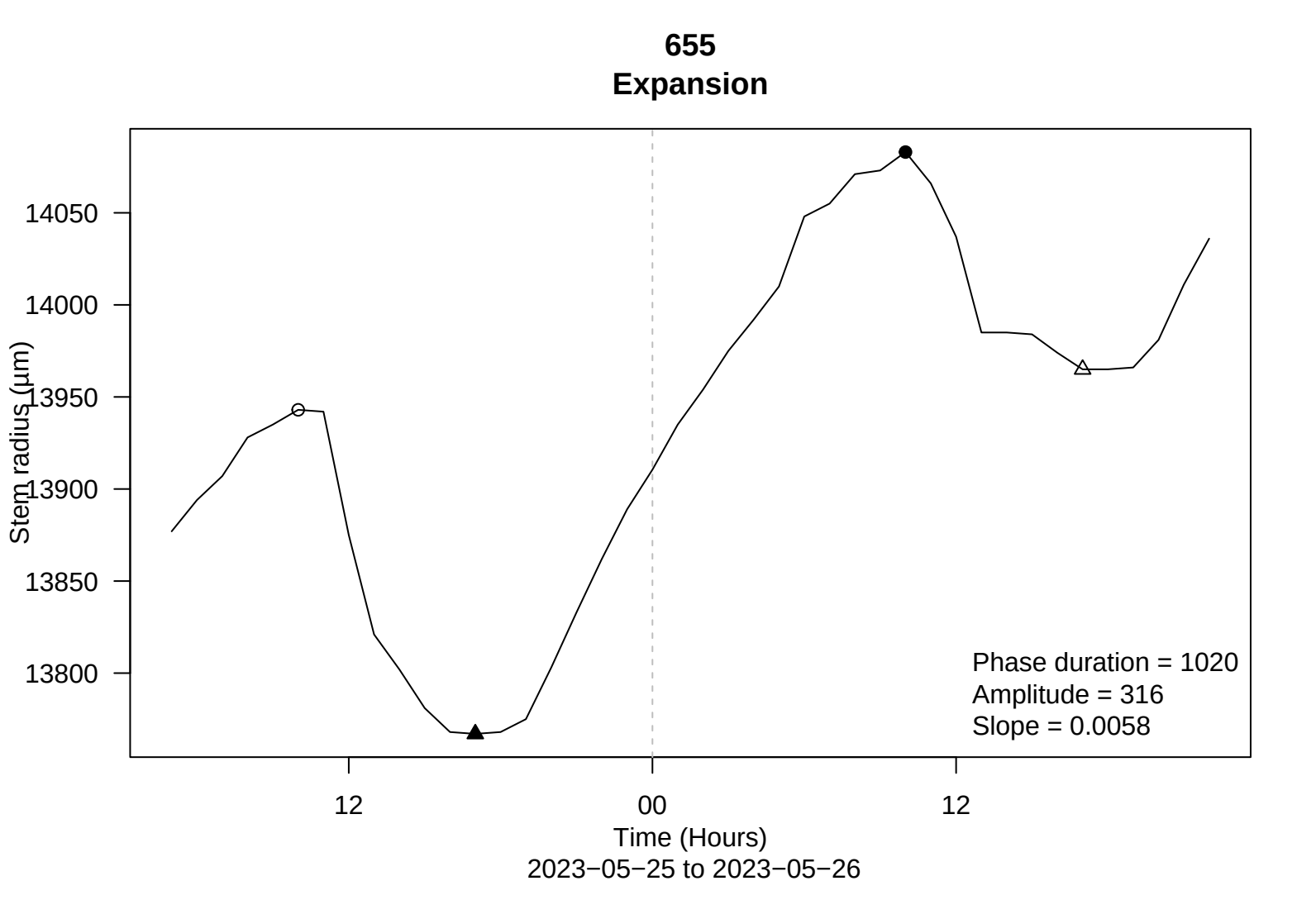

655
Shrinkage
13650
13600
13550
13500
Stem radius (µm)
Phase duration = 480
Amplitude = −114
Slope = −0.0045
00
12
00
Time (Hours)
2023−05−23 to 2023−05−23

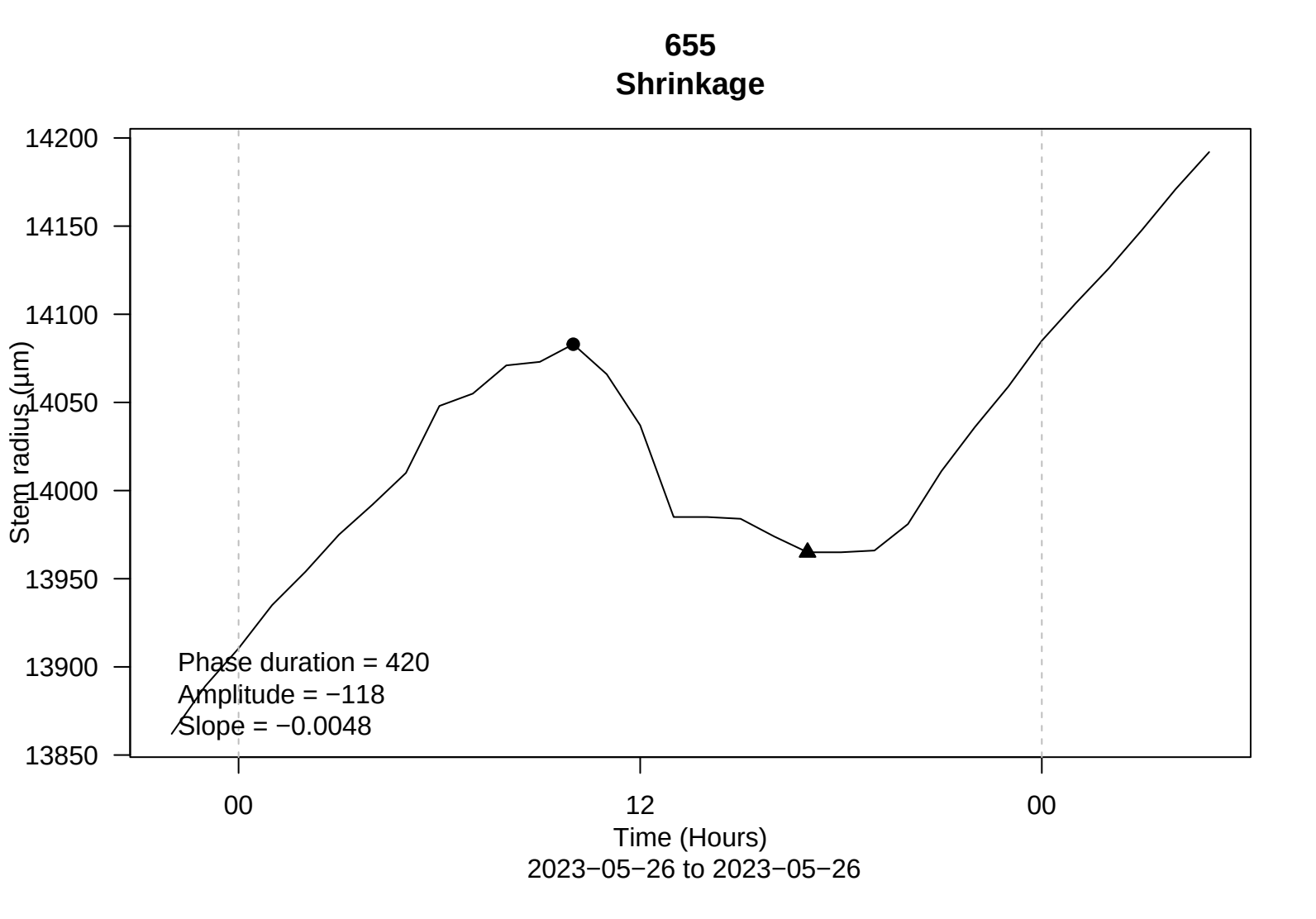

655
Expansion
13800
13750
13700
13650
13600
Stem radius (µm)
Phase duration = 1020
Amplitude = 221
Slope = 0.0041
12
00
12
Time (Hours)
2023−05−23 to 2023−05−24

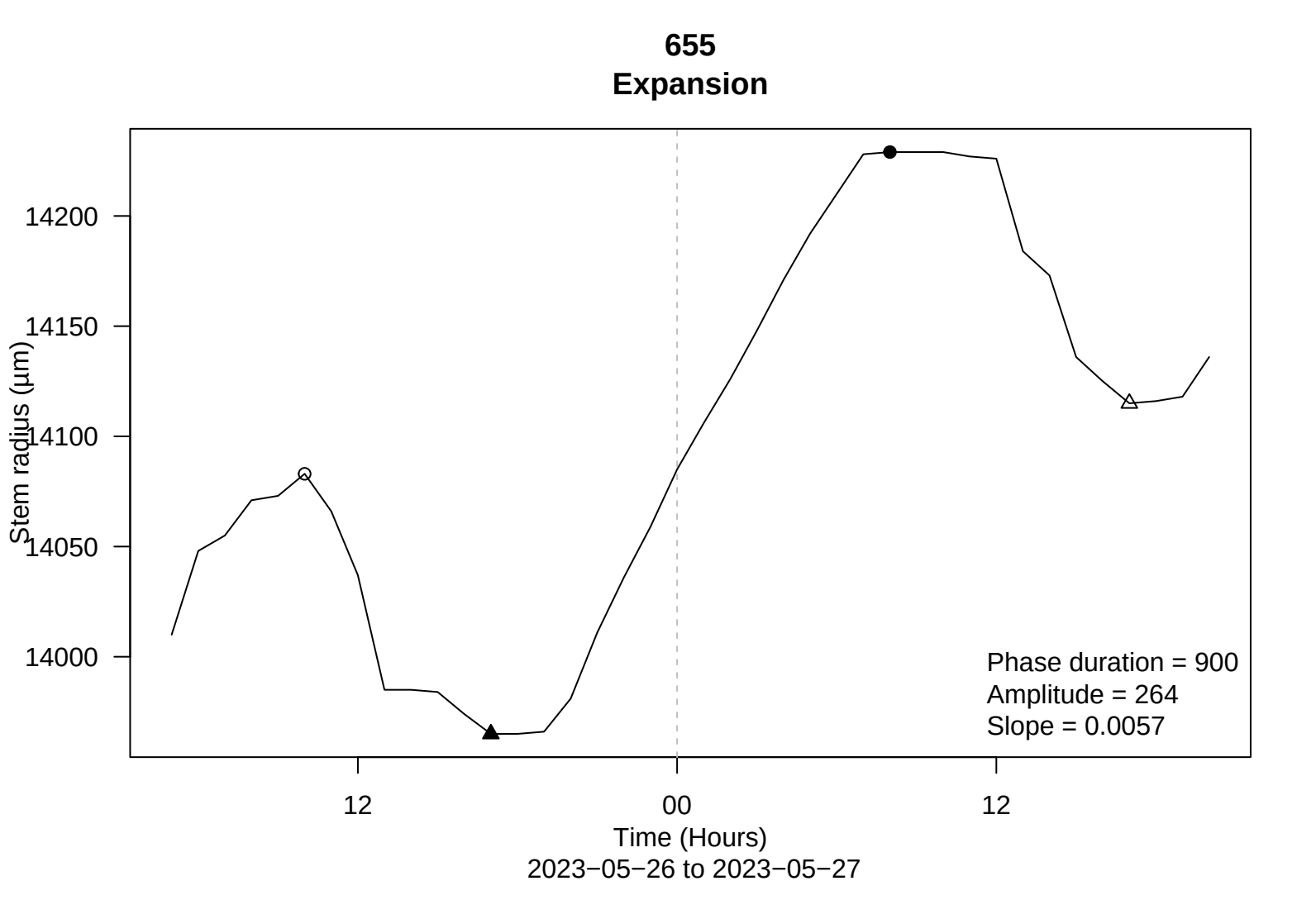

655
Shrinkage
13850
13800
13750
13700
13650
Stem radius (µm)
Phase duration = 420
Amplitude = −133
Slope = −0.0064
00
12
00
Time (Hours)
2023−05−24 to 2023−05−24

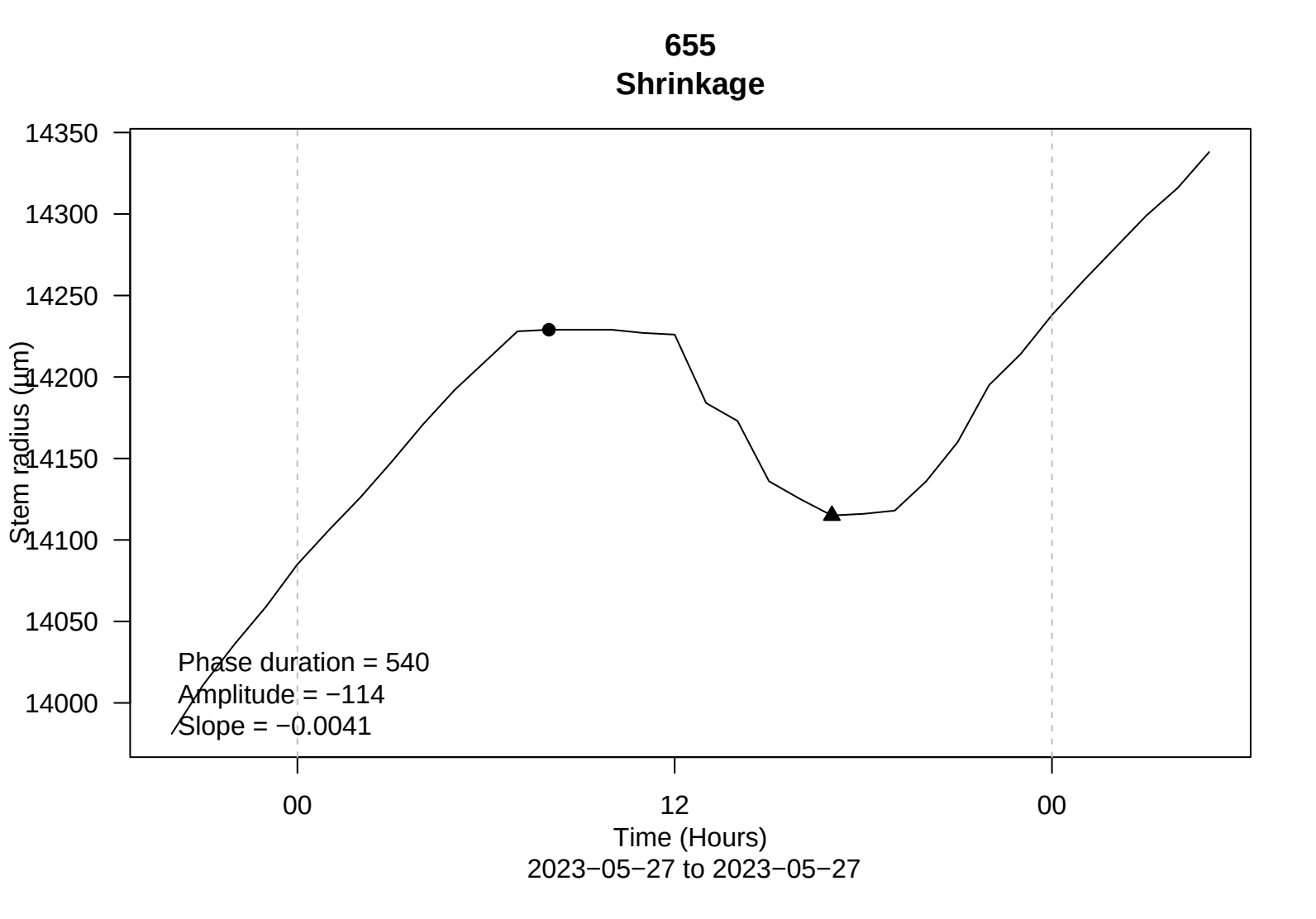

655
Expansion
13950
13900
13850
13800
13750
13700
13650
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−24 to 2023−05−25
Phase duration = 1020
Amplitude = 283
Slope = 0.0051

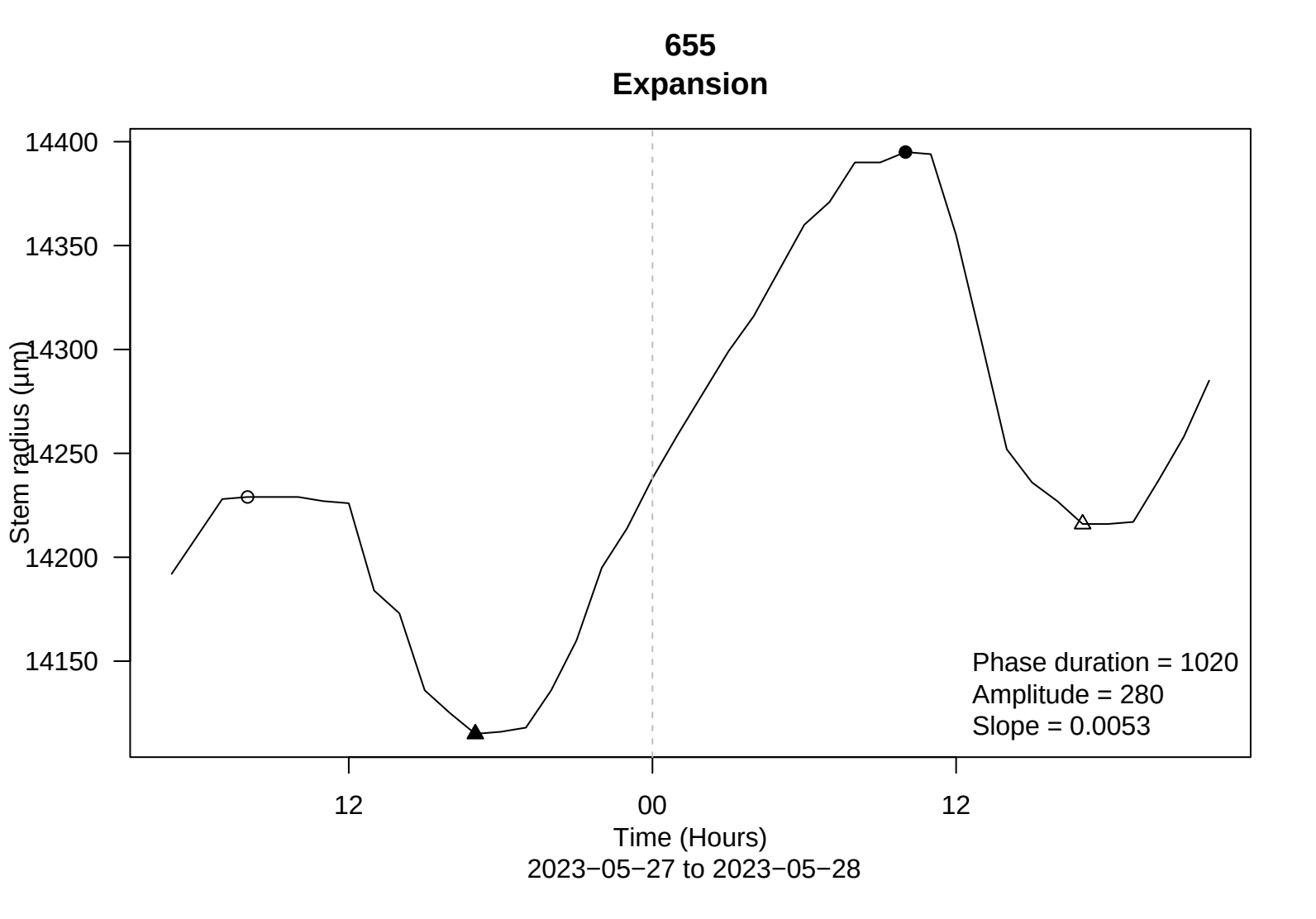

655
Shrinkage
14000
13950
13900
13850
13800
13750
Stem radius (µm)
Phase duration = 420
Amplitude = −176
Slope = −0.0079
00
12
00
Time (Hours)
2023−05−25 to 2023−05−25

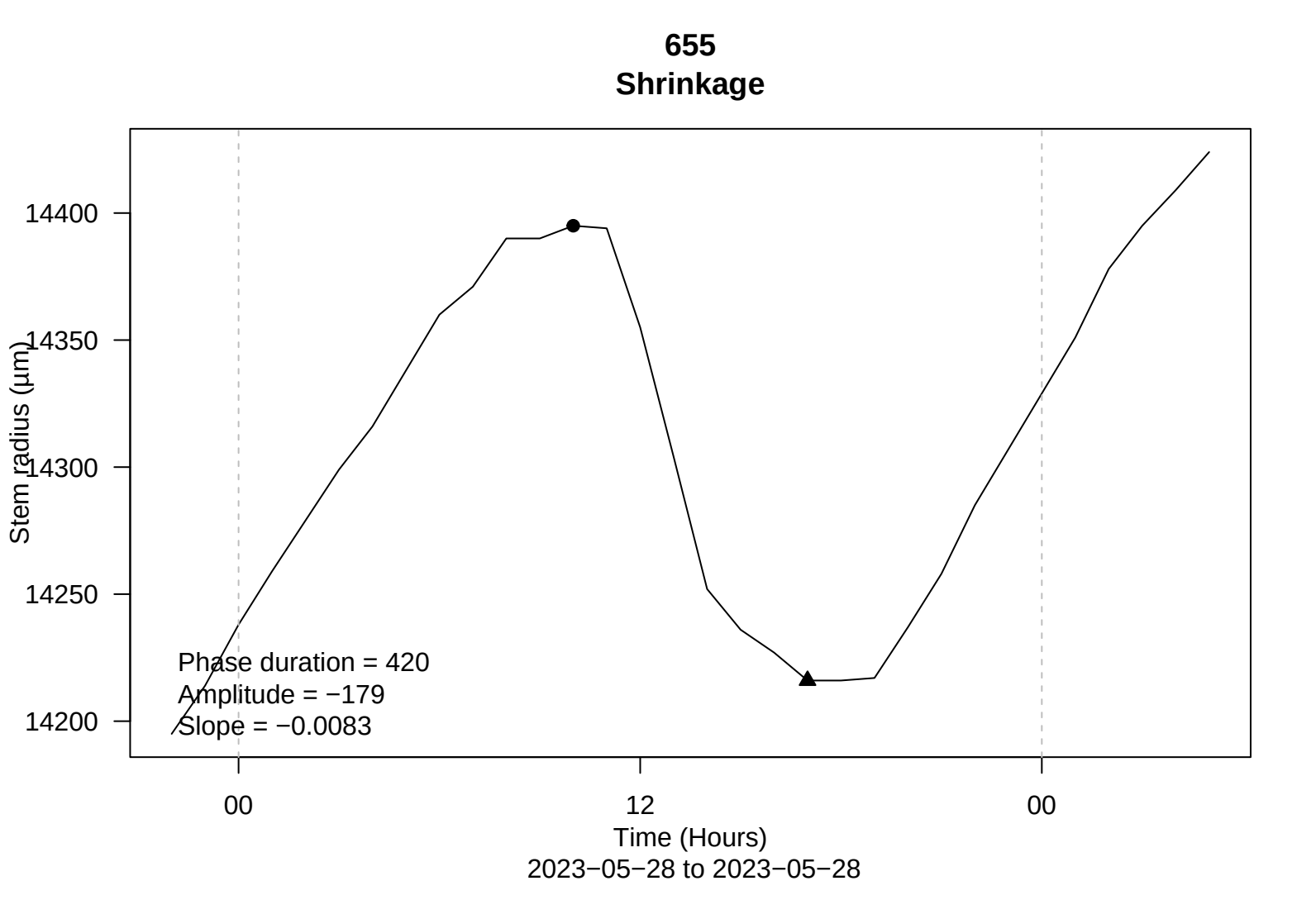

655
Expansion
14050
14000
13950
13900
13850
13800
Stem radius (µm)
Phase duration = 1020
Amplitude = 316
Slope = 0.0058
12
00
12
Time (Hours)
2023−05−25 to 2023−05−26

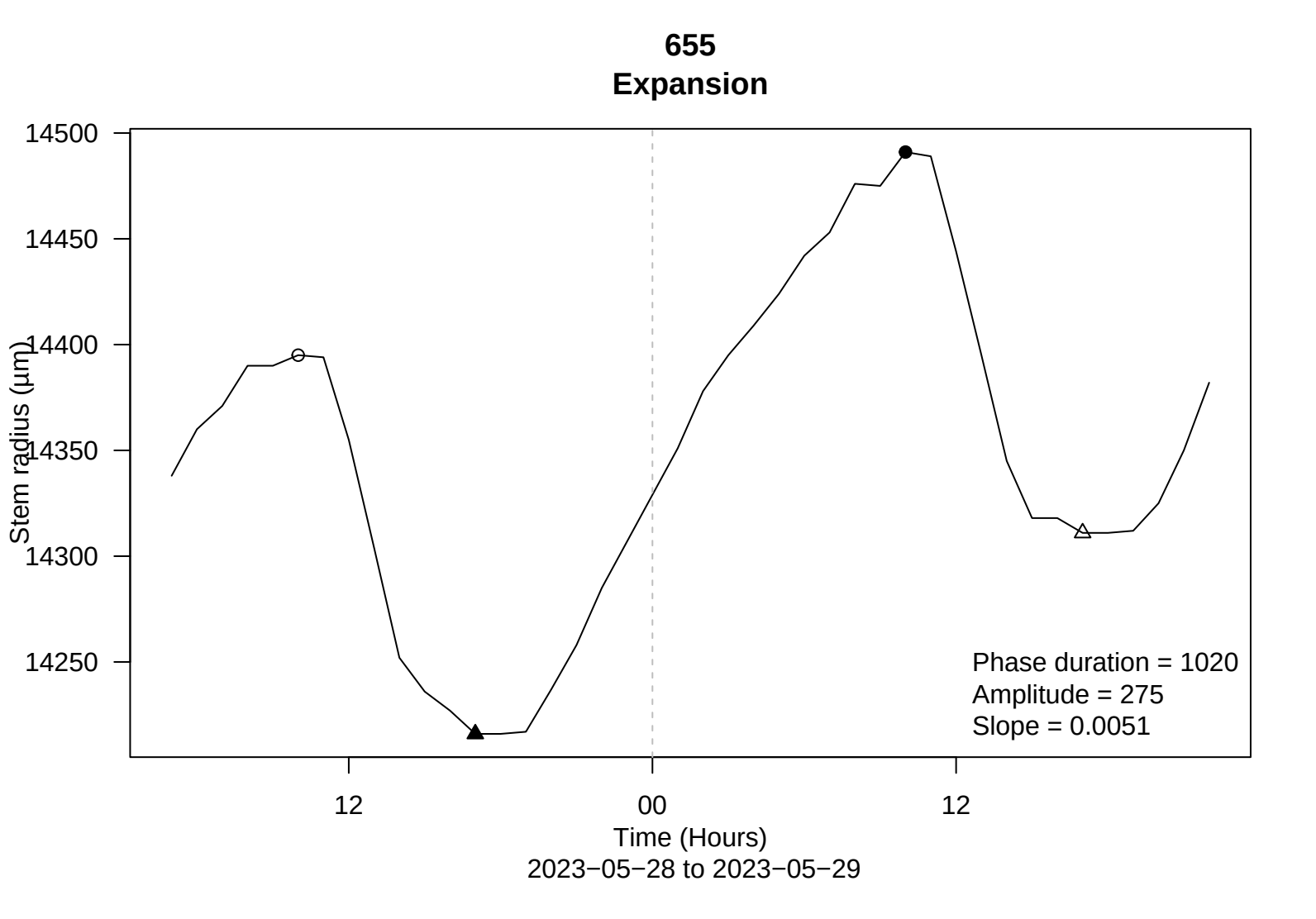

655
Shrinkage
14200
14150
14100
14050
14000
13950
13900
13850
Stem radius (µm)
Phase duration = 420
Amplitude = −118
Slope = −0.0048
00
12
00
Time (Hours)
2023−05−26 to 2023−05−26

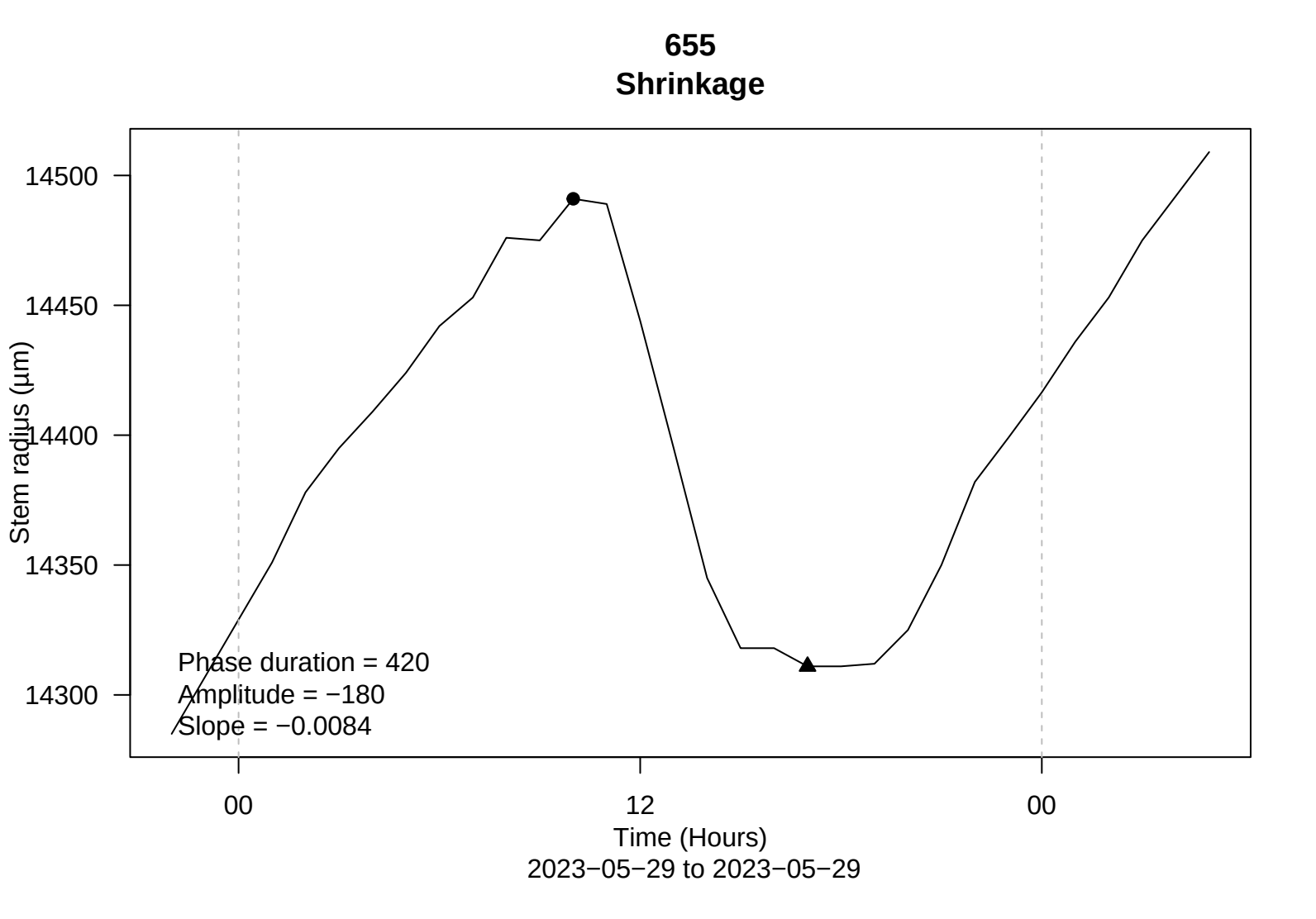

655
Expansion
14200
14150
14100
14050
14000
Stem radius (µm)
Phase duration = 900
Amplitude = 264
Slope = 0.0057
12
00
12
Time (Hours)
2023−05−26 to 2023−05−27

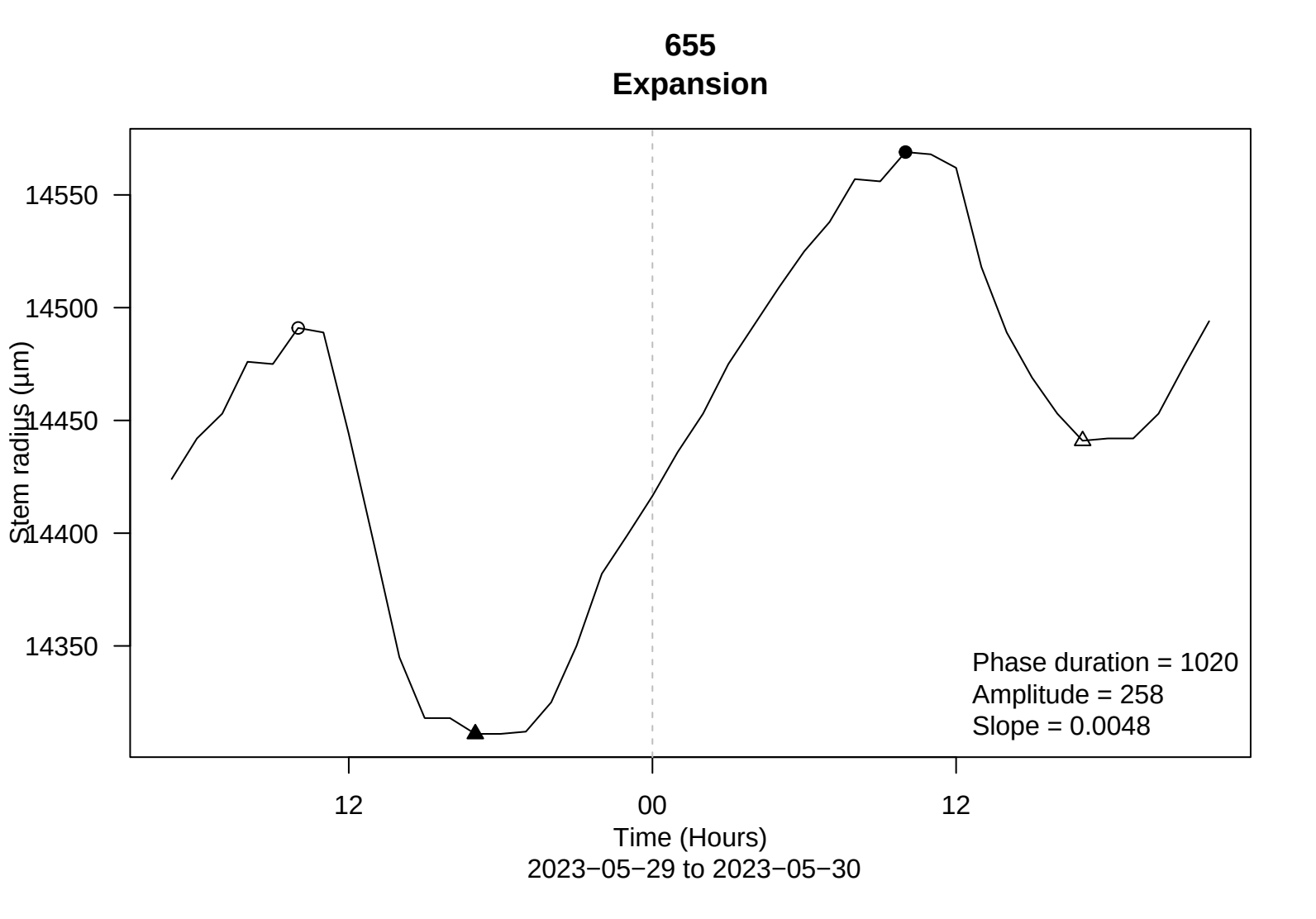

655
Shrinkage
14350
14300
14250
14200
14150
14100
14050
14000
Stem radius (µm)
Phase duration = 540
Amplitude = −114
Slope = −0.0041
00
12
00
Time (Hours)
2023−05−27 to 2023−05−27

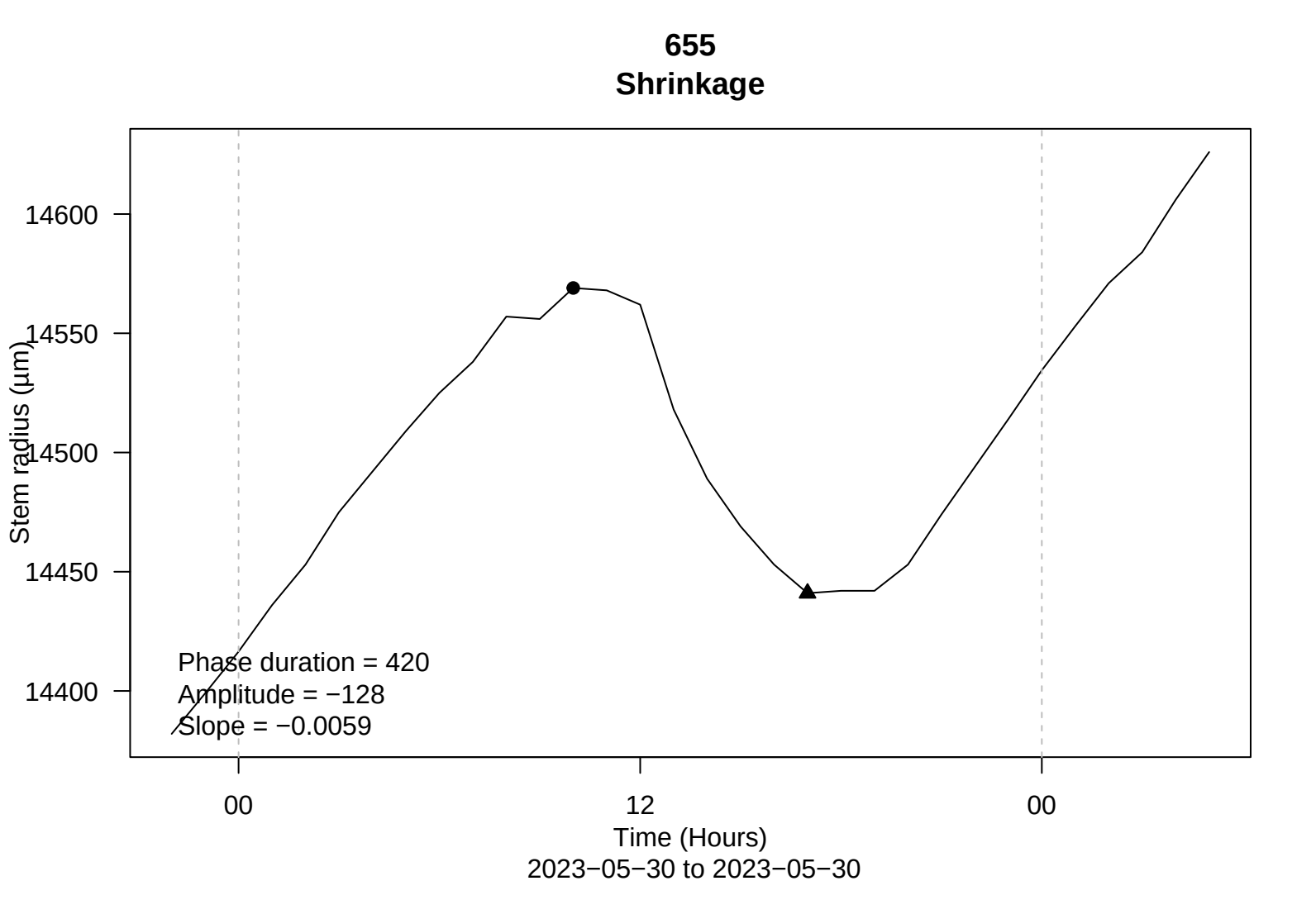

655
Expansion
14400
14350
14300
14250
14200
14150
Stem radius (µm)
Phase duration = 1020
Amplitude = 280
Slope = 0.0053
12
00
12
Time (Hours)
2023−05−27 to 2023−05−28

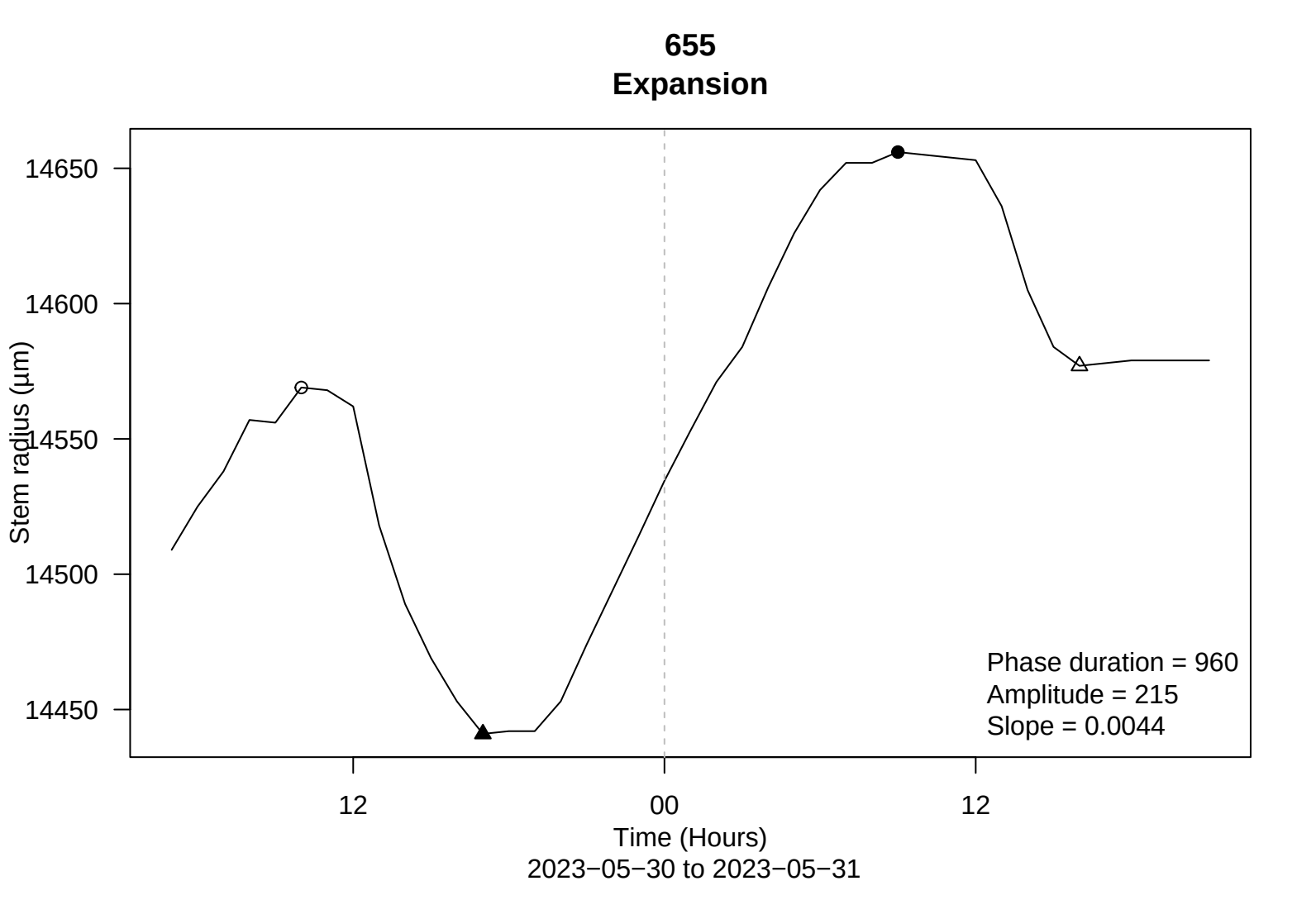

655
Shrinkage
14400
14350
14300
14250
14200
Stem radius (µm)
Phase duration = 420
Amplitude = −179
Slope = −0.0083
00
12
00
Time (Hours)
2023−05−28 to 2023−05−28

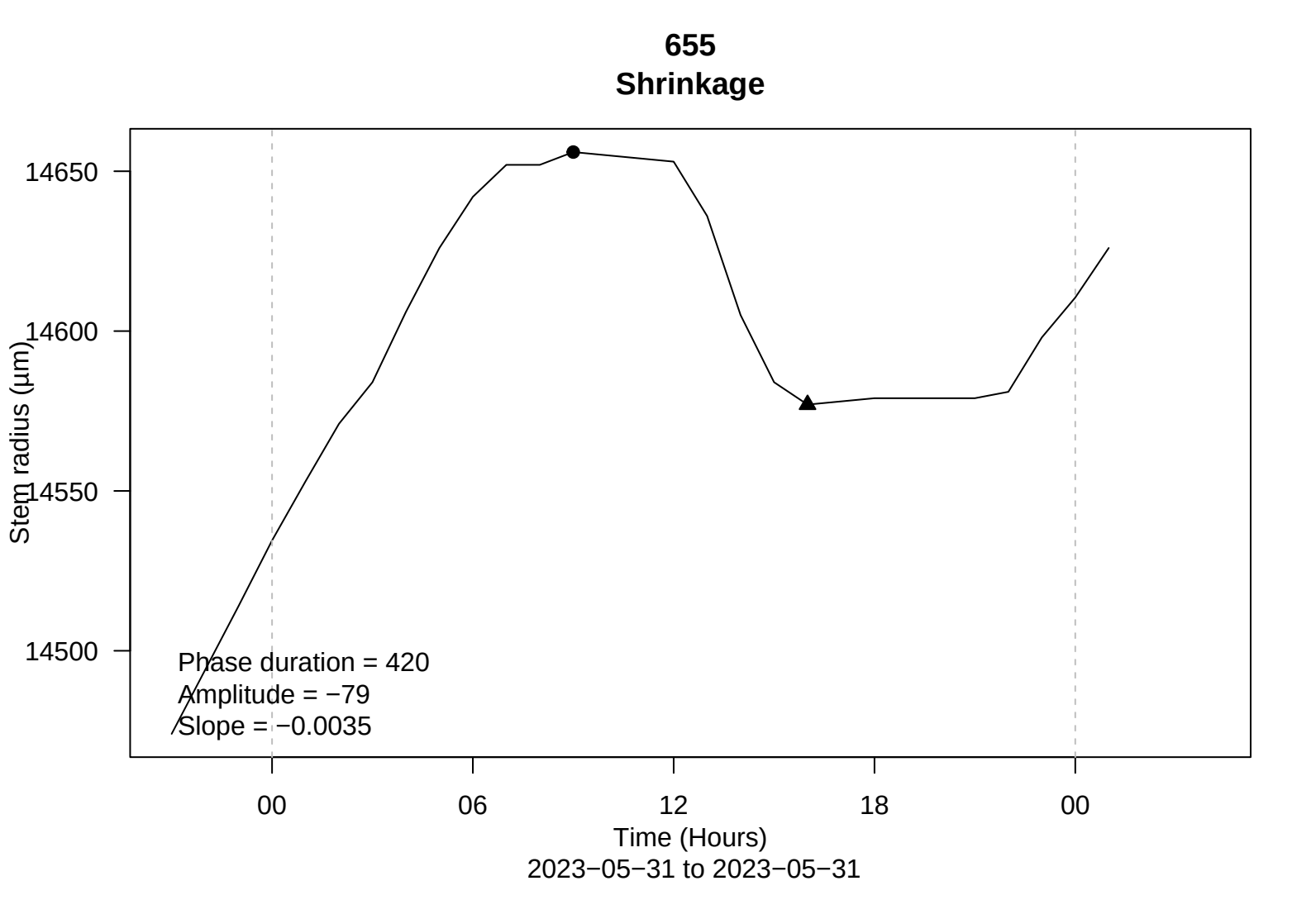

655
Expansion
14500
14450
14400
14350
14300
14250
Stem radius (µm)
Phase duration = 1020
Amplitude = 275
Slope = 0.0051
12
00
12
Time (Hours)
2023−05−28 to 2023−05−29

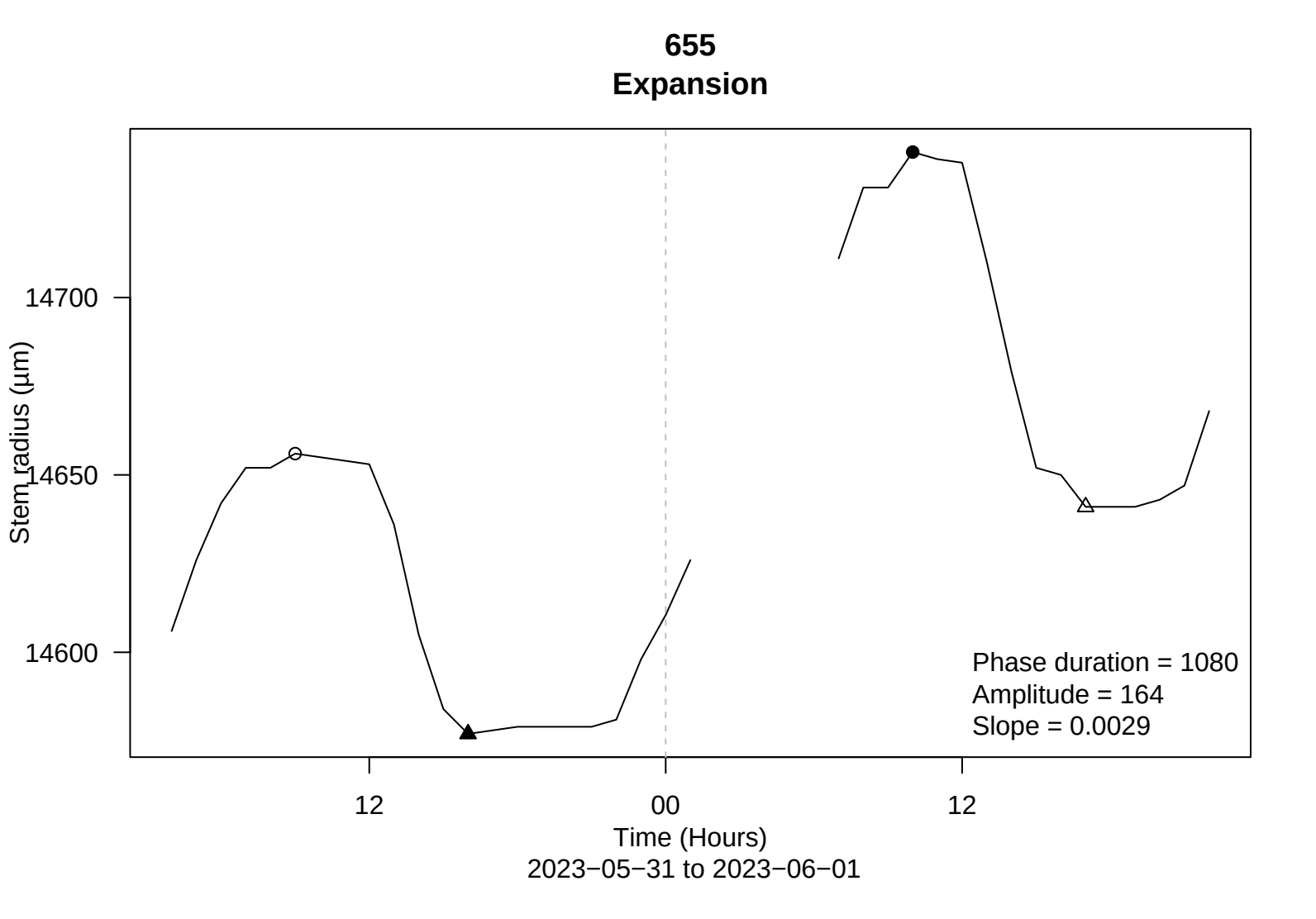

655
Shrinkage
14500
14450
14400
14350
14300
Stem radius (µm)
Phase duration = 420
Amplitude = −180
Slope = −0.0084
00
12
00
Time (Hours)
2023−05−29 to 2023−05−29

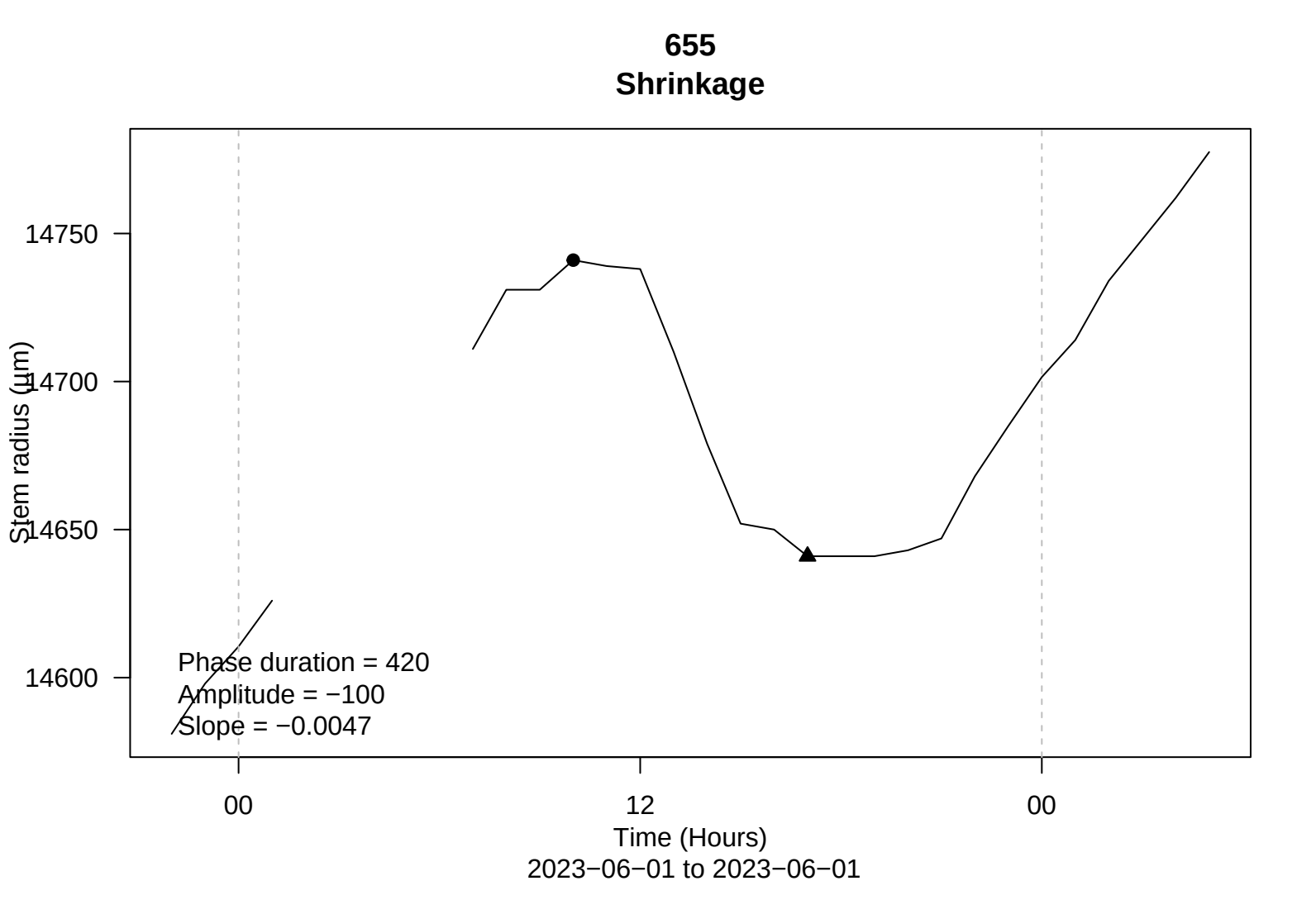

655
Expansion
14550
14500
14450
14400
14350
Stem radius (µm)
Phase duration = 1020
Amplitude = 258
Slope = 0.0048
12
00
12
Time (Hours)
2023−05−29 to 2023−05−30

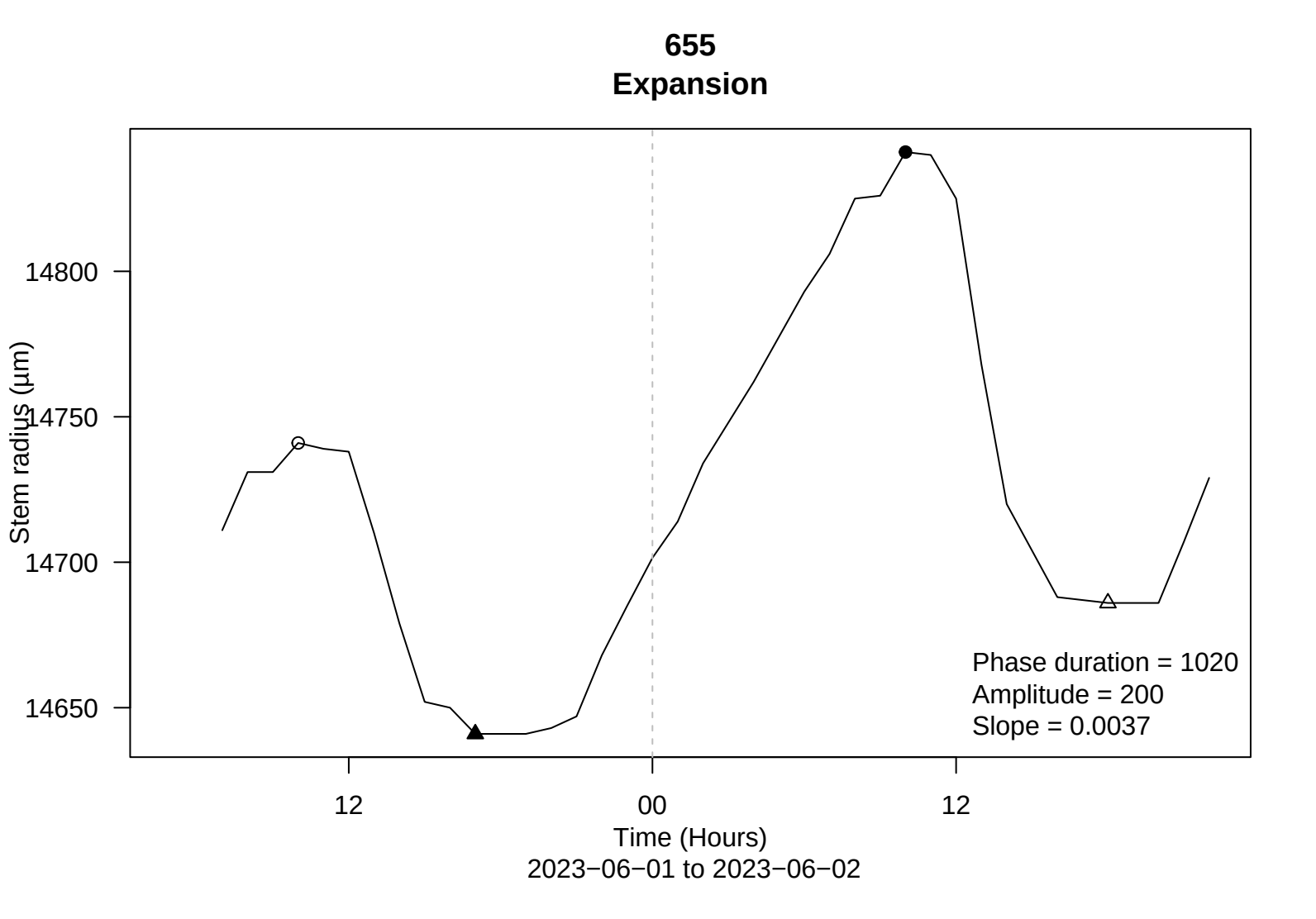

655
Shrinkage
14600
14550
14500
14450
14400
Stem radius (µm)
Phase duration = 420
Amplitude = −128
Slope = −0.0059
00
12
00
Time (Hours)
2023−05−30 to 2023−05−30

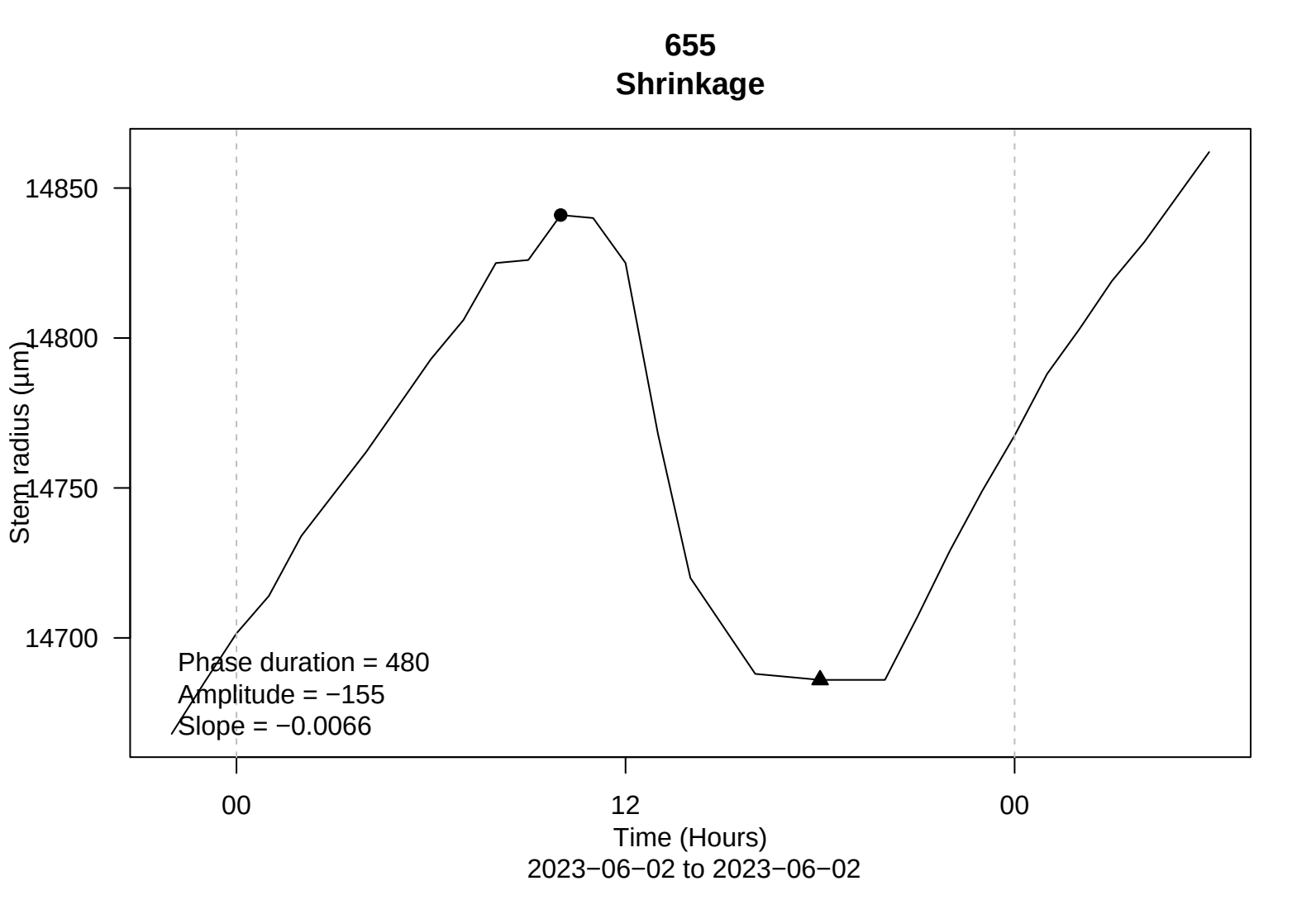

655
Expansion
14650
14600
14550
14500
14450
Stem radius (µm)
Phase duration = 960
Amplitude = 215
Slope = 0.0044
12
00
12
Time (Hours)
2023−05−30 to 2023−05−31

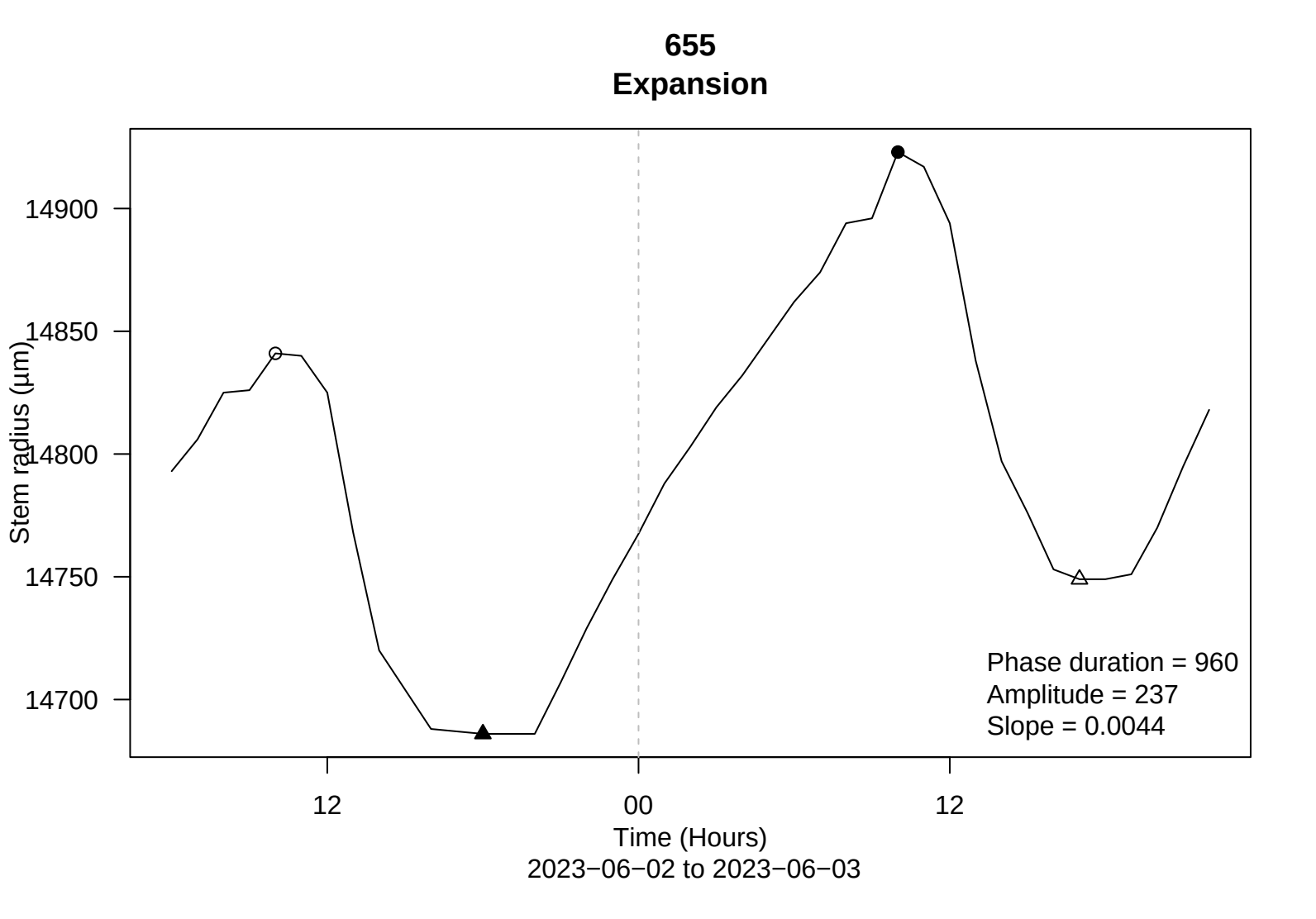

655
Shrinkage
14650
14600
14550
14500
Stem radius (µm)
Phase duration = 420
Amplitude = −79
Slope = −0.0035
00
06
12
18
00
Time (Hours)
2023−05−31 to 2023−05−31

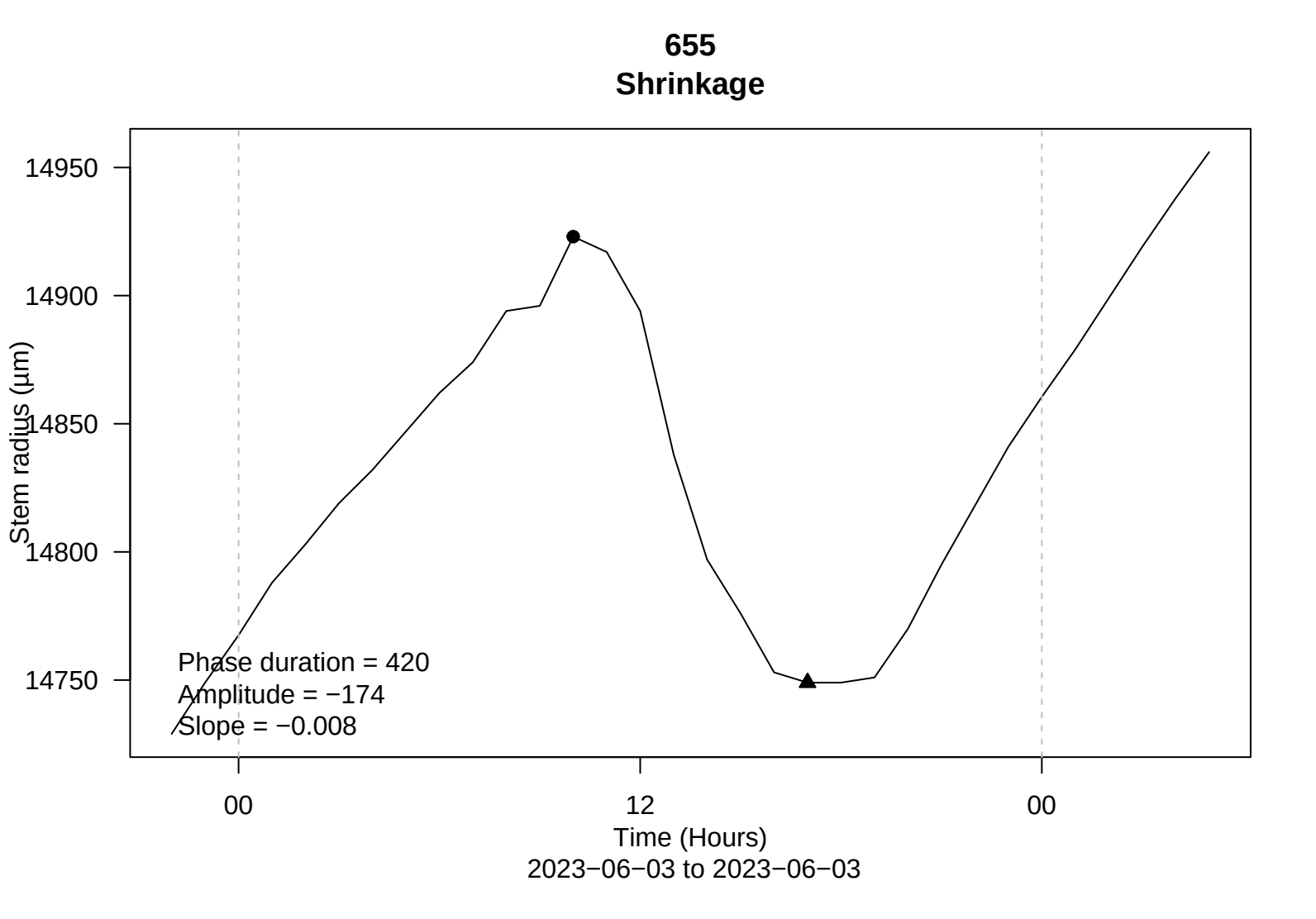

655
Expansion
14700
14650
14600
Stem radius (µm)
Phase duration = 1080
Amplitude = 164
Slope = 0.0029
12
00
12
Time (Hours)
2023−05−31 to 2023−06−01

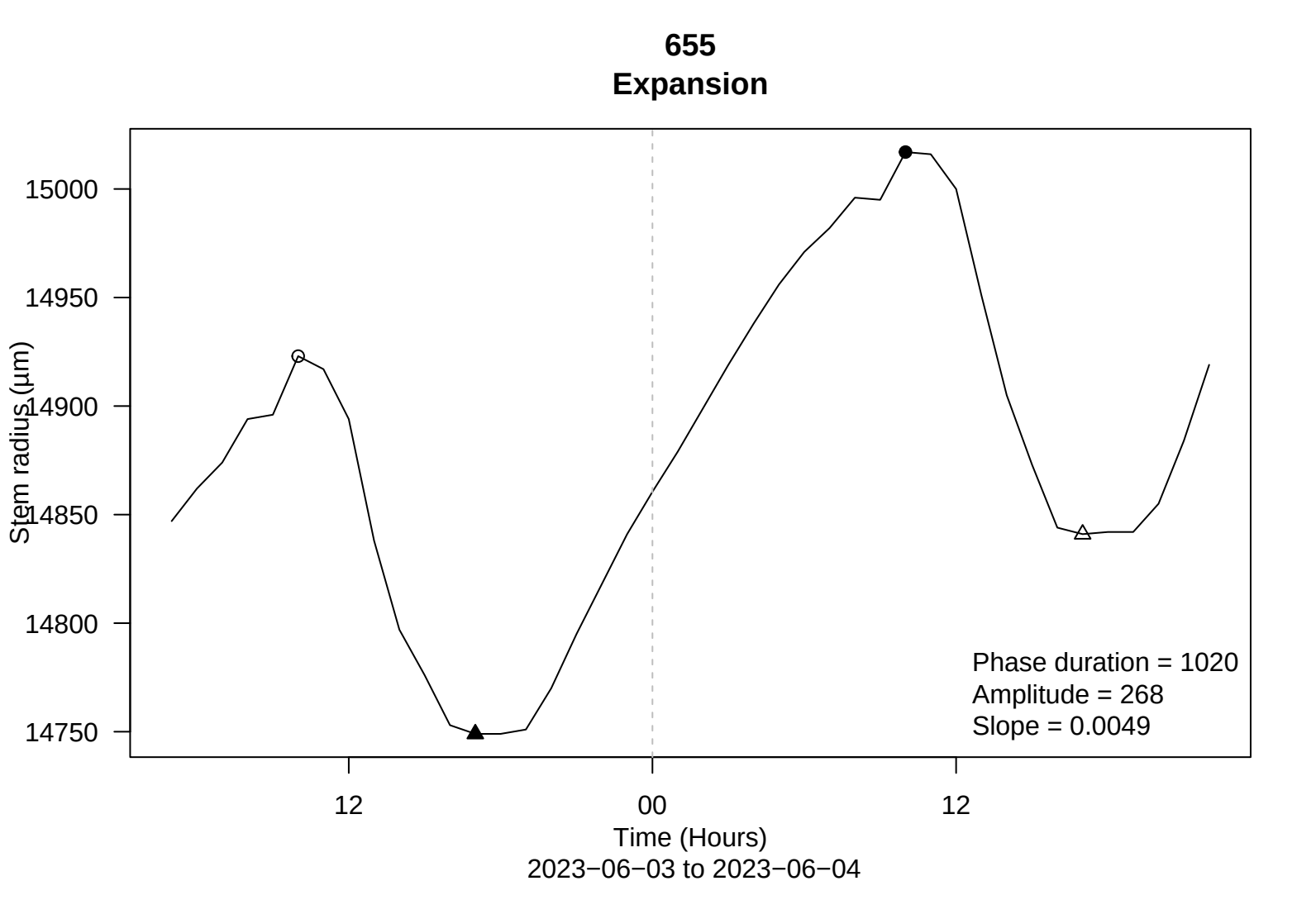

655
Shrinkage
14750
14700
14650
14600
Stem radius (µm)
Phase duration = 420
Amplitude = −100
Slope = −0.0047
00
12
00
Time (Hours)
2023−06−01 to 2023−06−01

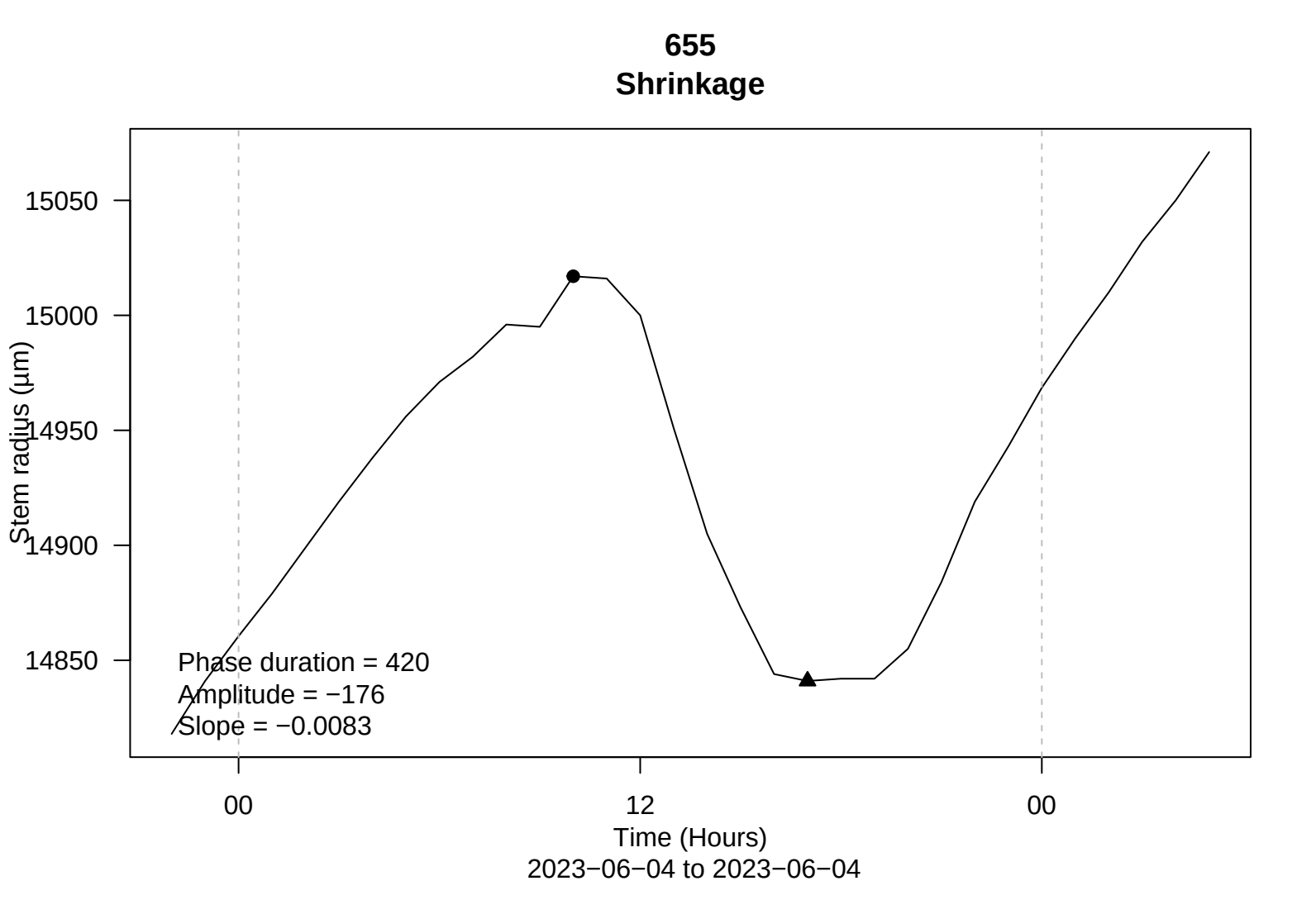

655
Expansion
14800
14750
14700
14650
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−01 to 2023−06−02
Phase duration = 1020
Amplitude = 200
Slope = 0.0037

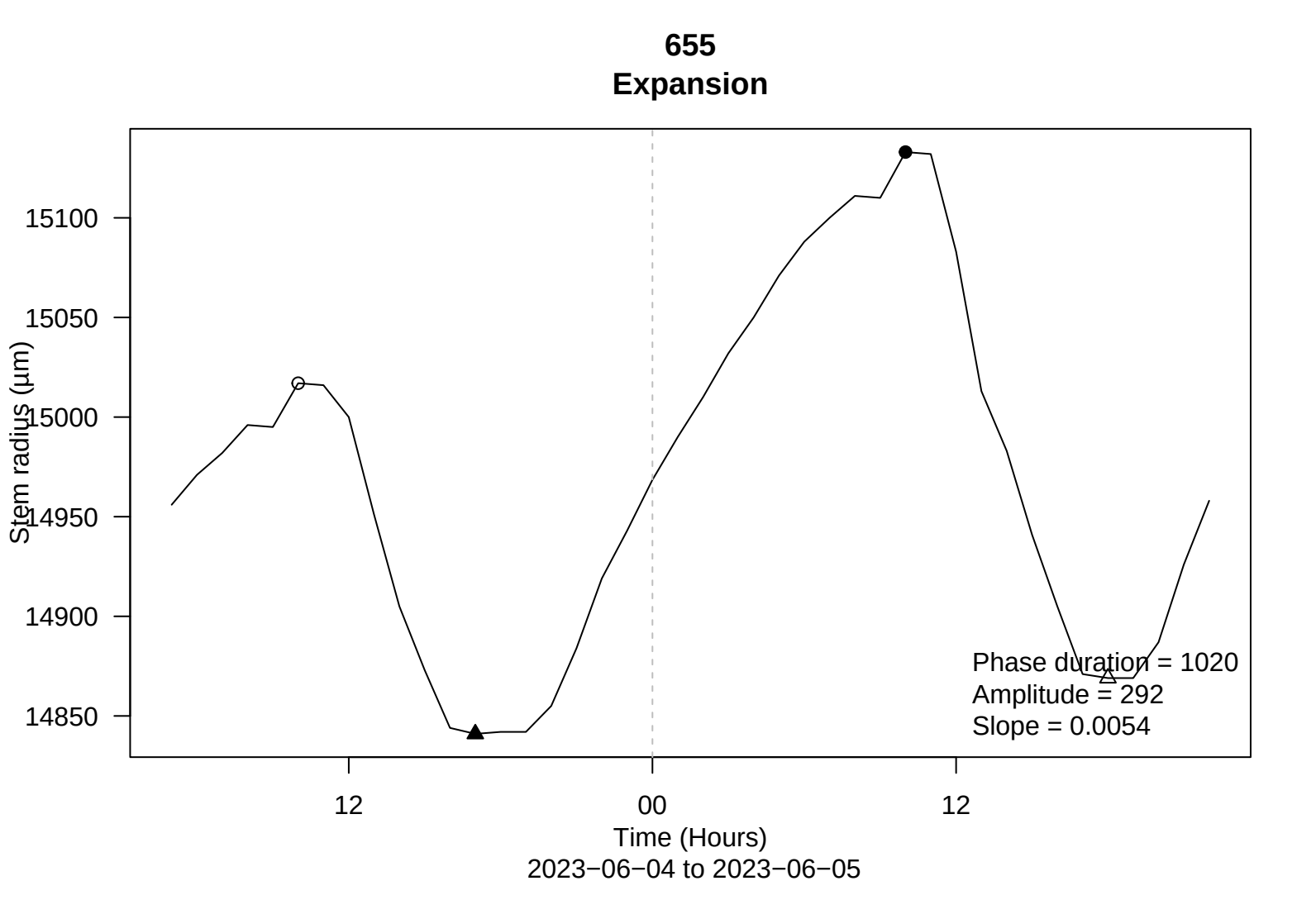

655
Shrinkage
14850
14800
14750
14700
Stem radius (µm)
Phase duration = 480
Amplitude = −155
Slope = −0.0066
00
12
00
Time (Hours)
2023−06−02 to 2023−06−02

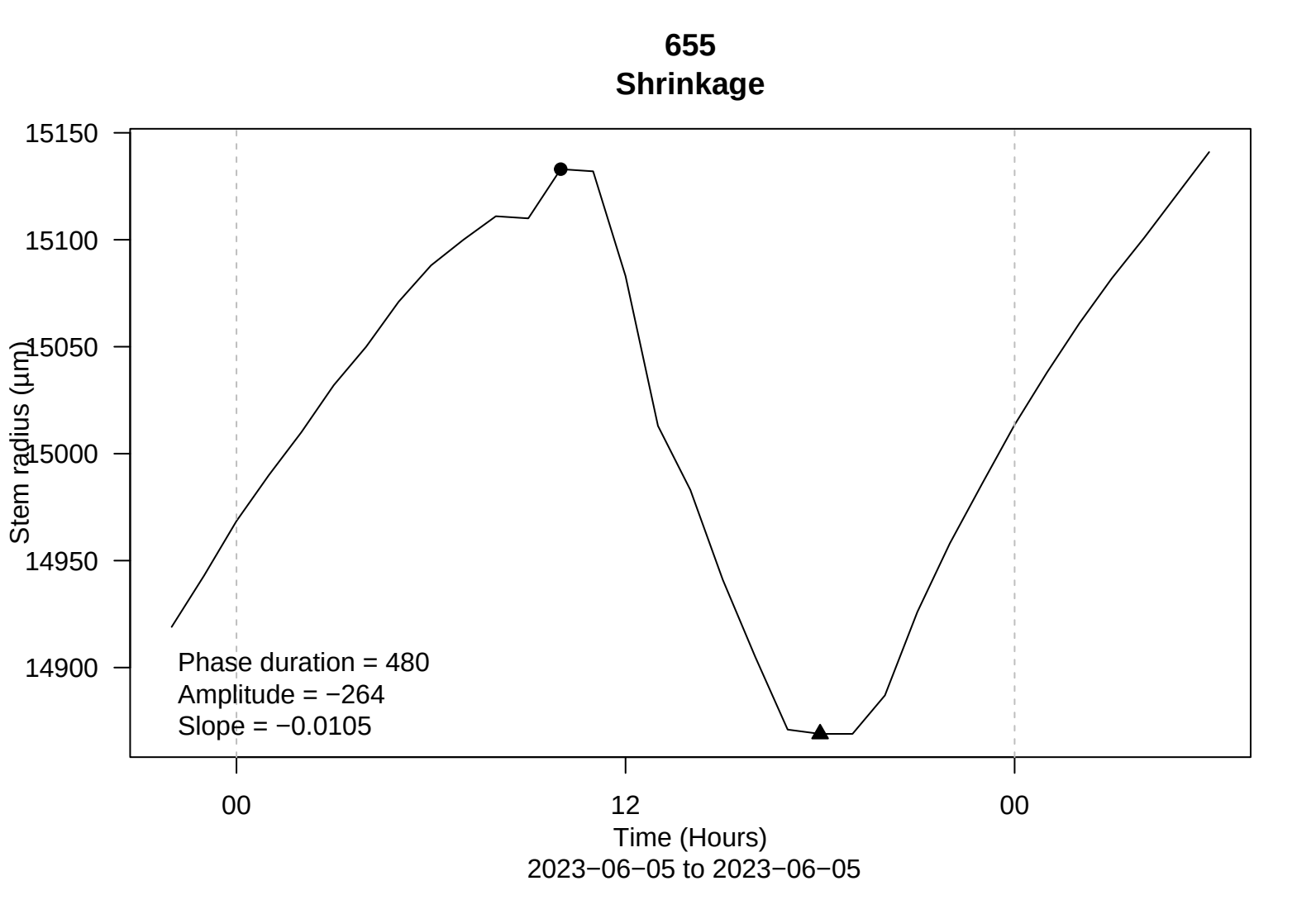

655
Expansion
14900
14850
14800
14750
14700
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−02 to 2023−06−03
Phase duration = 960
Amplitude = 237
Slope = 0.0044

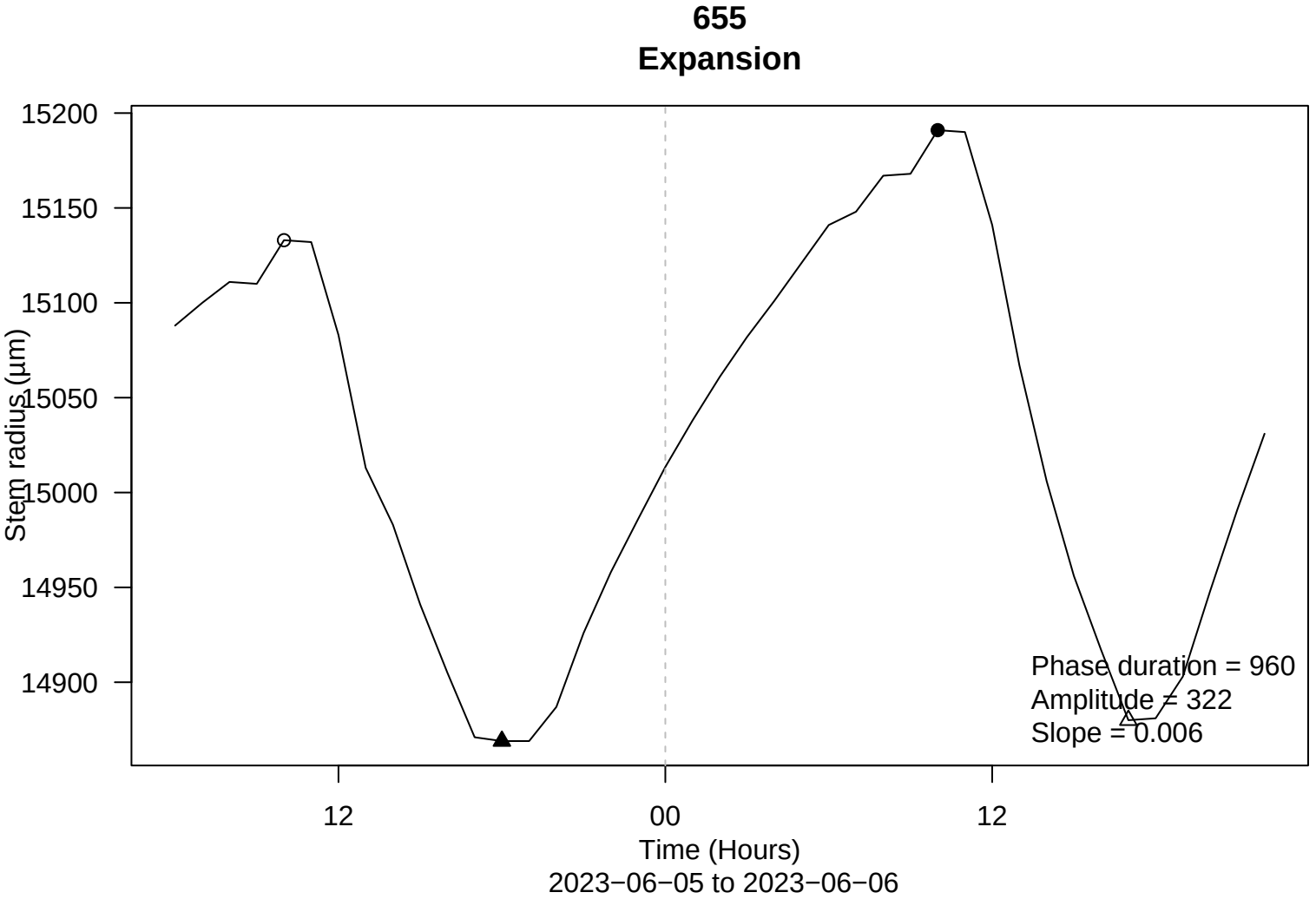

655
Shrinkage
14950
14900
14850
14800
14750
Stem radius (µm)
Phase duration = 420
Amplitude = −174
Slope = −0.008
00
12
00
Time (Hours)
2023−06−03 to 2023−06−03

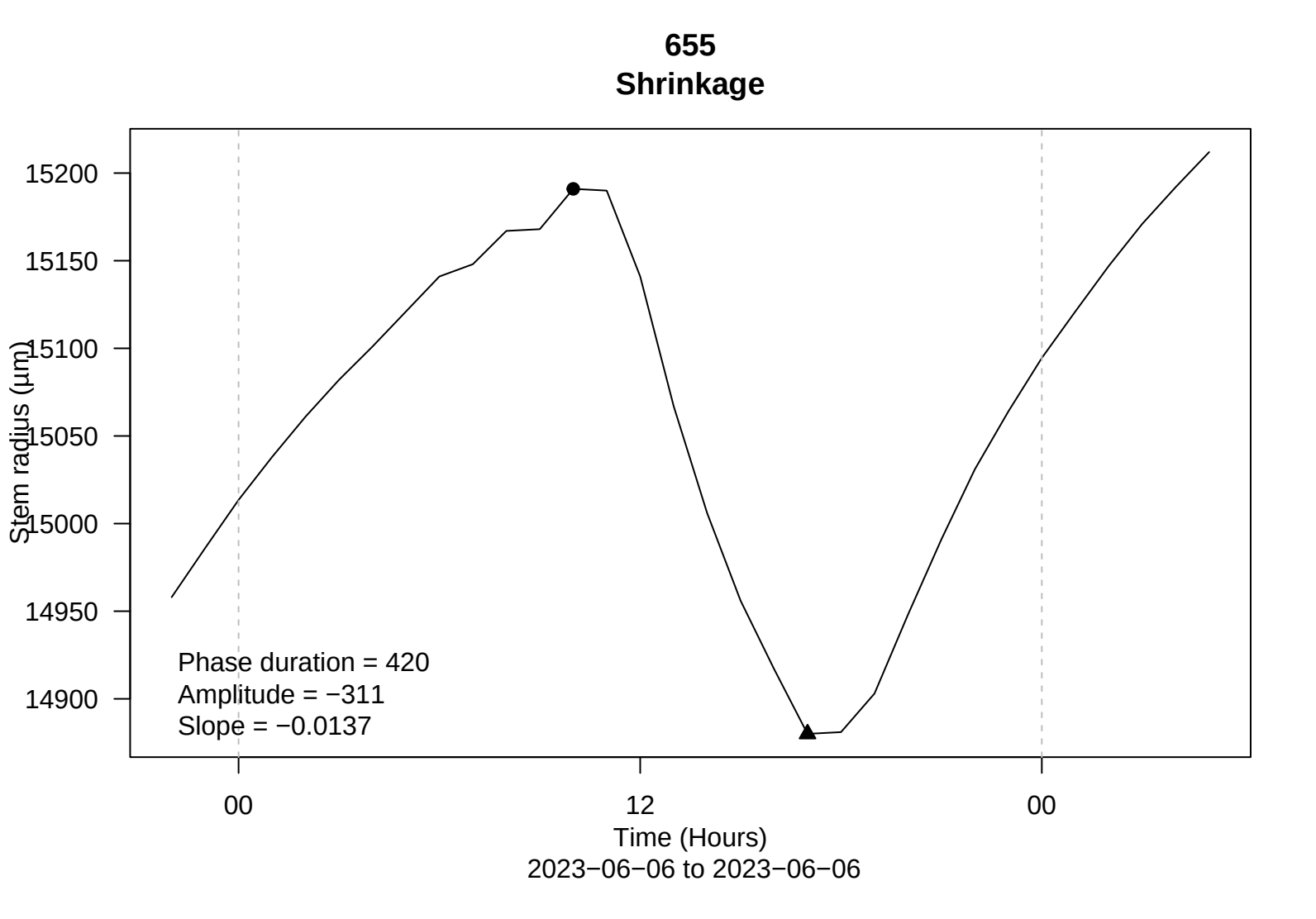

655
Expansion
15000
14950
14900
14850
14800
14750
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−03 to 2023−06−04
Phase duration = 1020
Amplitude = 268
Slope = 0.0049

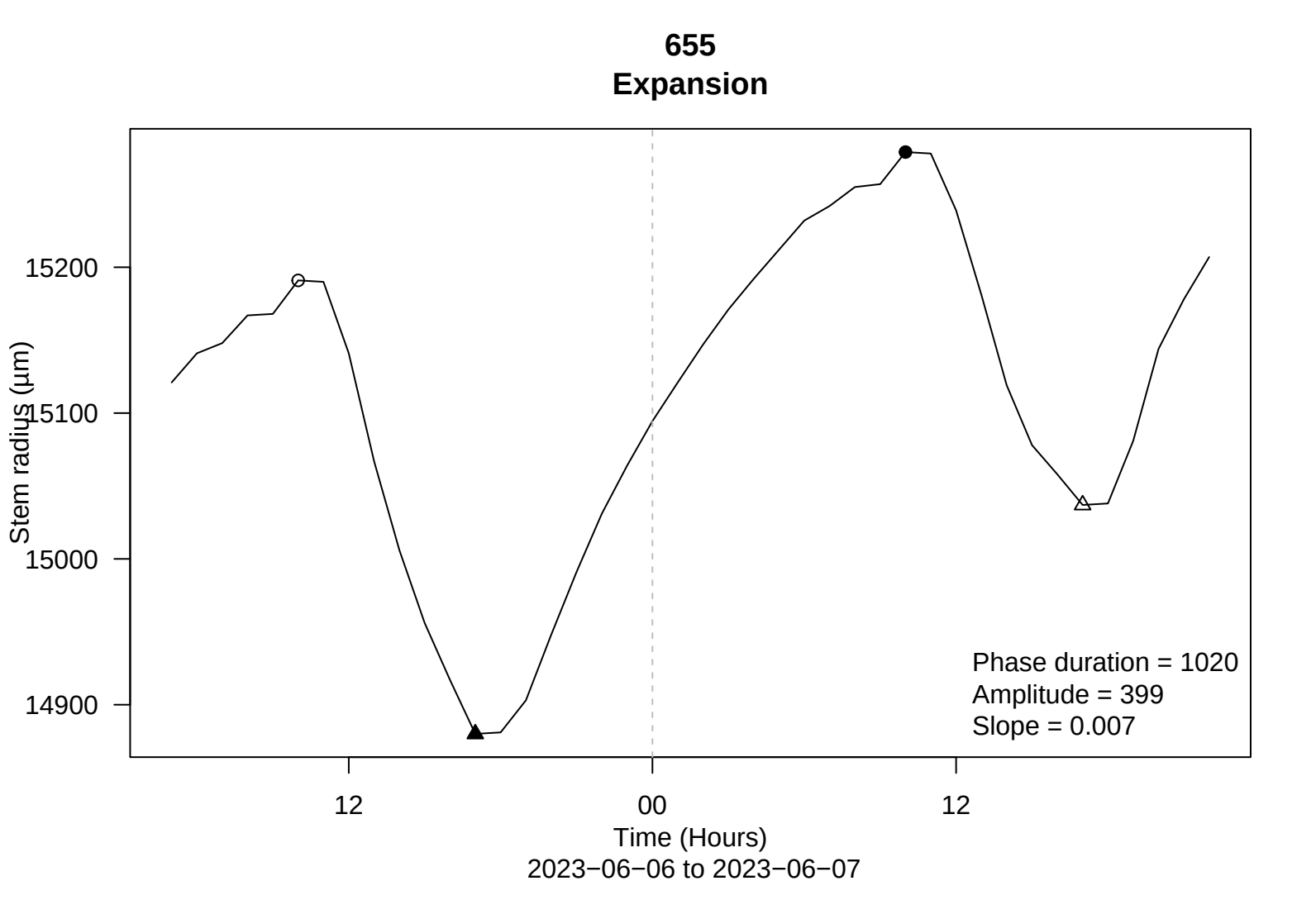

655
Shrinkage
15050
15000
14950
14900
14850
Stem radius (µm)
Phase duration = 420
Amplitude = −176
Slope = −0.0083
00
12
00
Time (Hours)
2023−06−04 to 2023−06−04

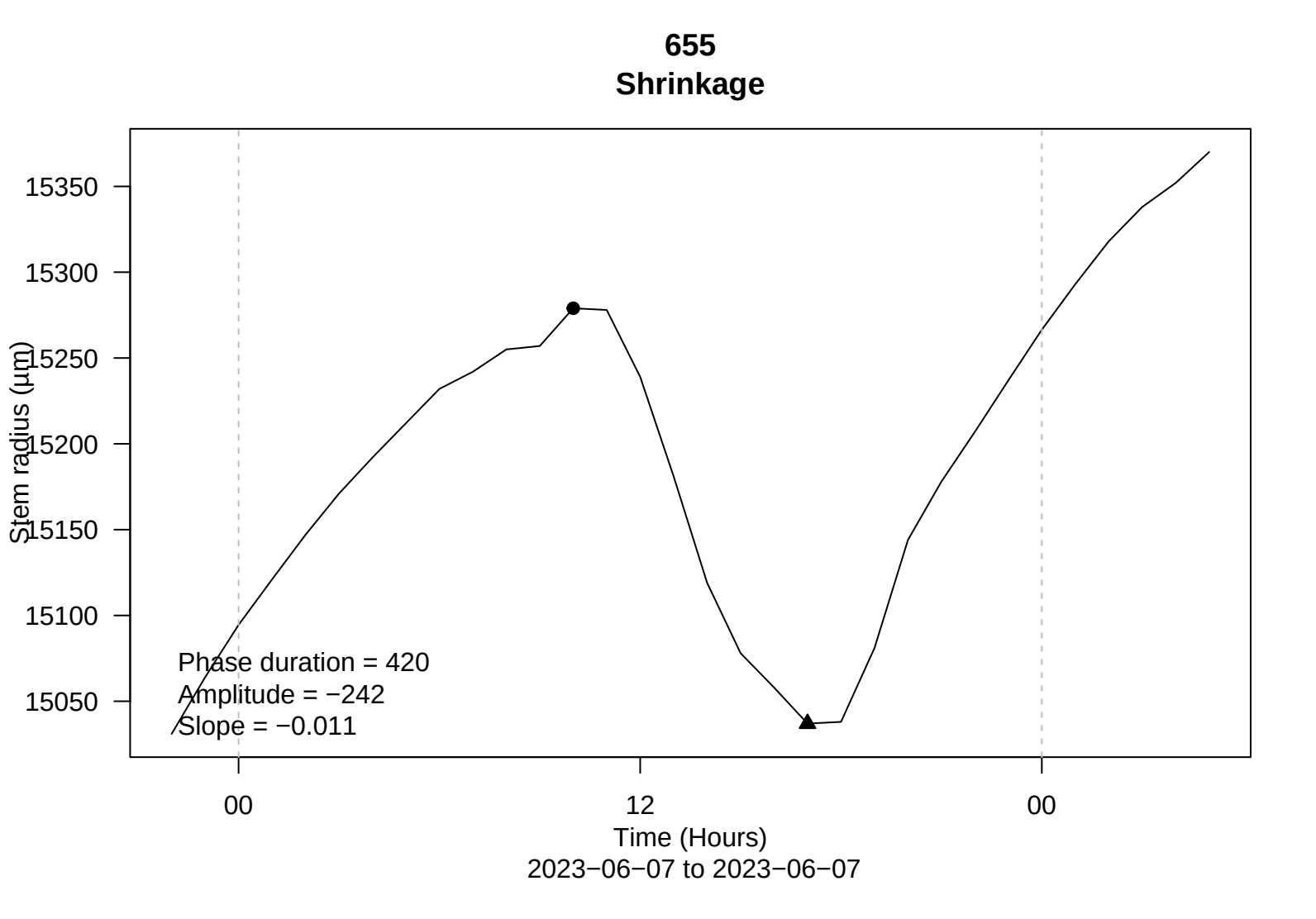

655
Expansion
15100
15050
15000
14950
14900
14850
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−04 to 2023−06−05
Phase duration = 1020
Amplitude = 292
Slope = 0.0054

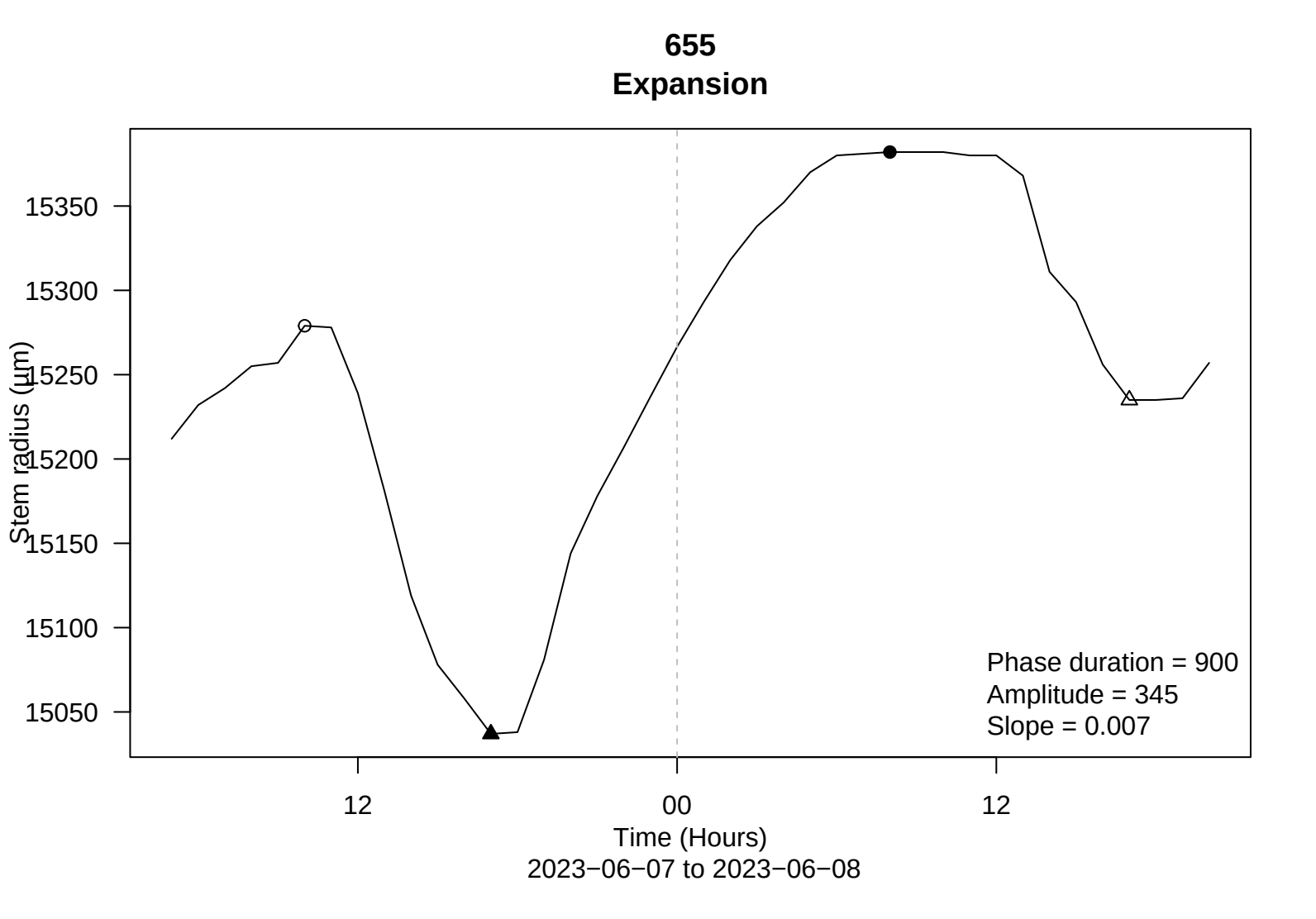

655
Shrinkage
15150
15100
15050
15000
14950
14900
Stem radius (µm)
Phase duration = 480
Amplitude = −264
Slope = −0.0105
00
12
00
Time (Hours)
2023−06−05 to 2023−06−05

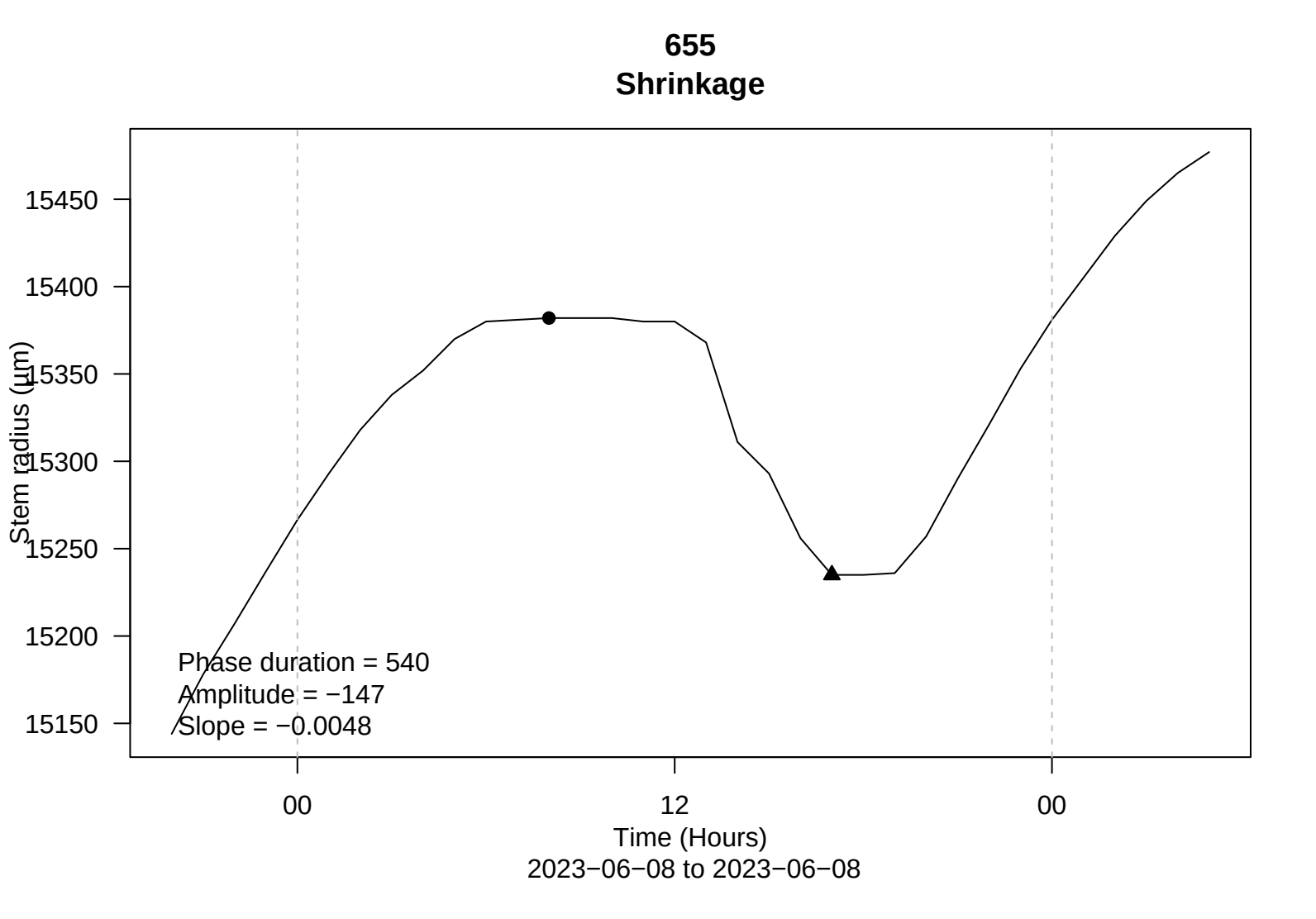

655
Expansion
15200
15150
15100
15050
15000
14950
14900
Stem radius (µm)
Phase duration = 960
Amplitude = 322
Slope = 0.006
12
00
12
Time (Hours)
2023−06−05 to 2023−06−06

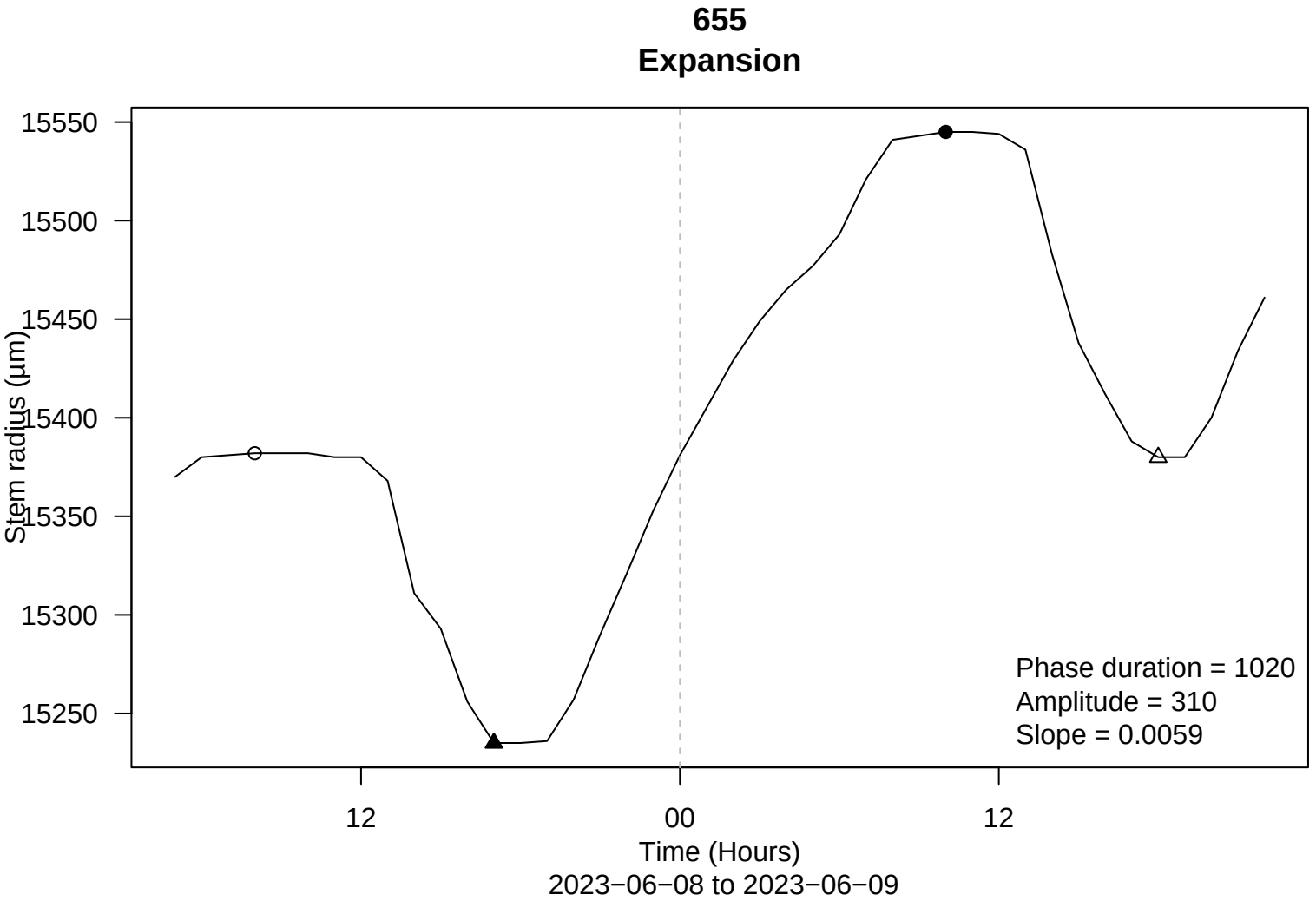

655
Shrinkage
15200
15150
15100
15050
15000
14950
14900
Stem radius (µm)
Phase duration = 420
Amplitude = −311
Slope = −0.0137
00
12
00
Time (Hours)
2023−06−06 to 2023−06−06

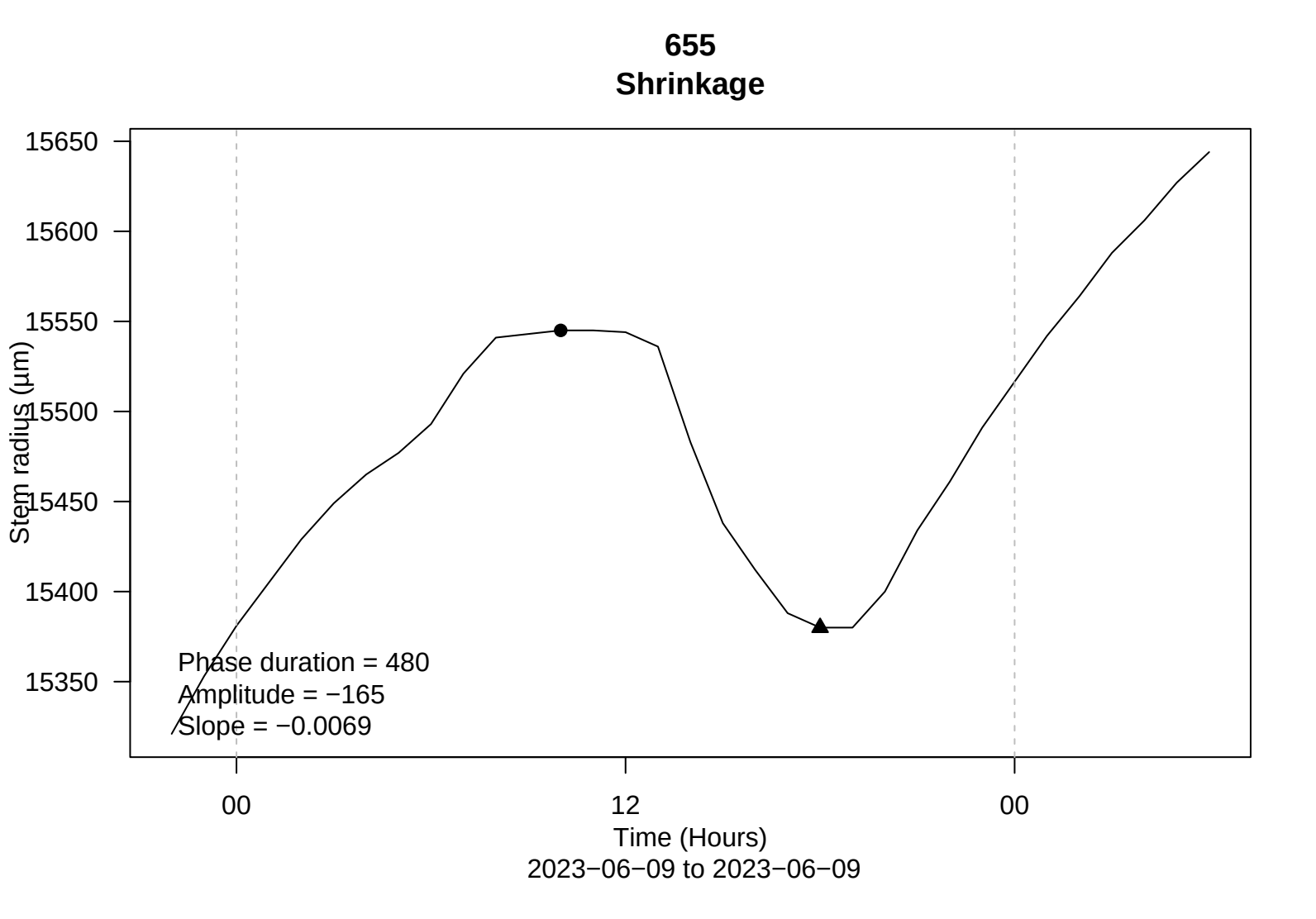

655
Expansion
15200
15100
15000
14900
Stem radius (µm)
Phase duration = 1020
Amplitude = 399
Slope = 0.007
12
00
12
Time (Hours)
2023−06−06 to 2023−06−07

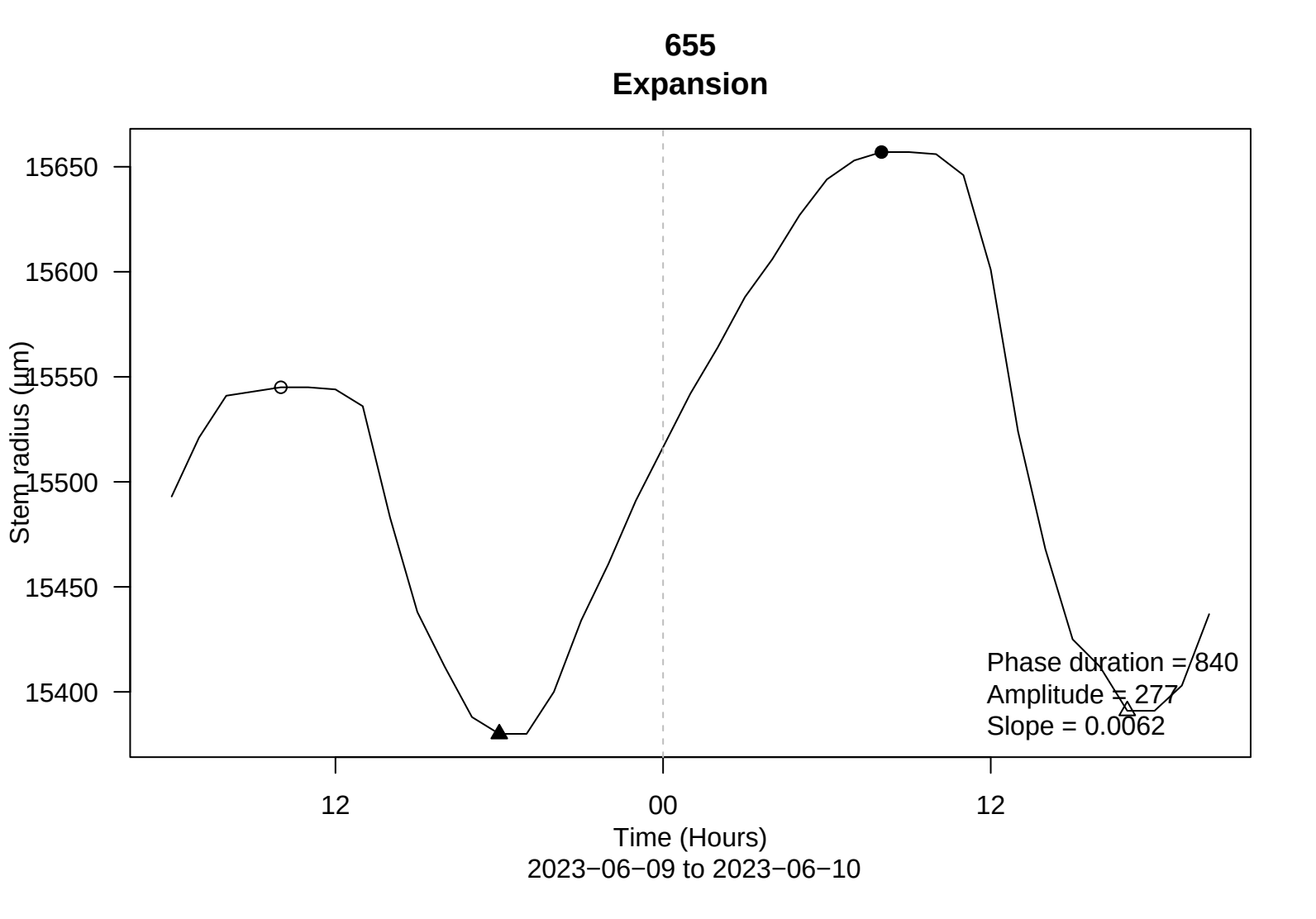

655
Shrinkage
15350
15300
15250
15200
15150
15100
15050
Stem radius (µm)
Phase duration = 420
Amplitude = −242
Slope = −0.011
00
12
00
Time (Hours)
2023−06−07 to 2023−06−07

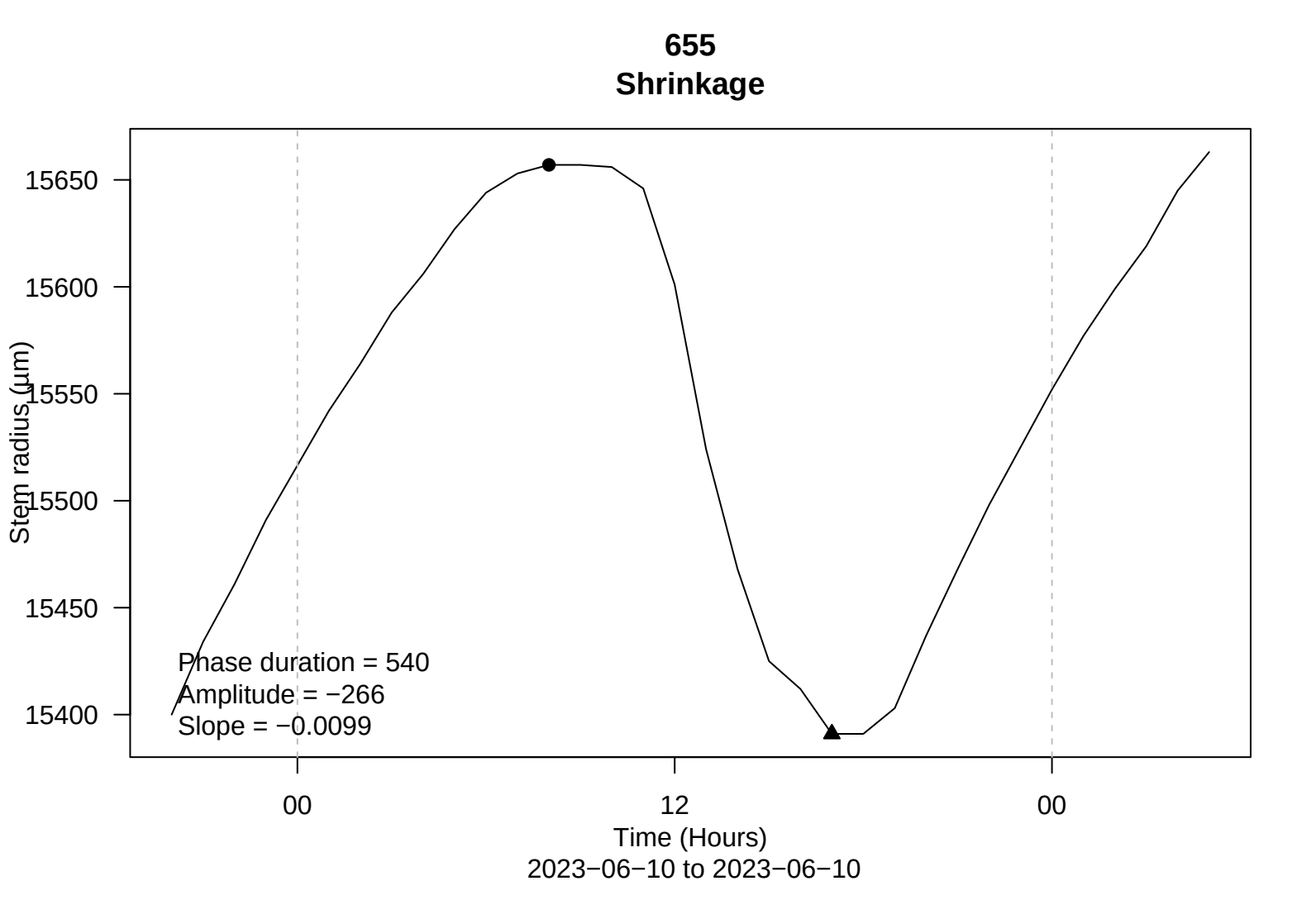

655
Expansion
15350
15300
15250
15200
15150
15100
15050
Stem radius (µm)
Phase duration = 900
Amplitude = 345
Slope = 0.007
12
00
12
Time (Hours)
2023−06−07 to 2023−06−08

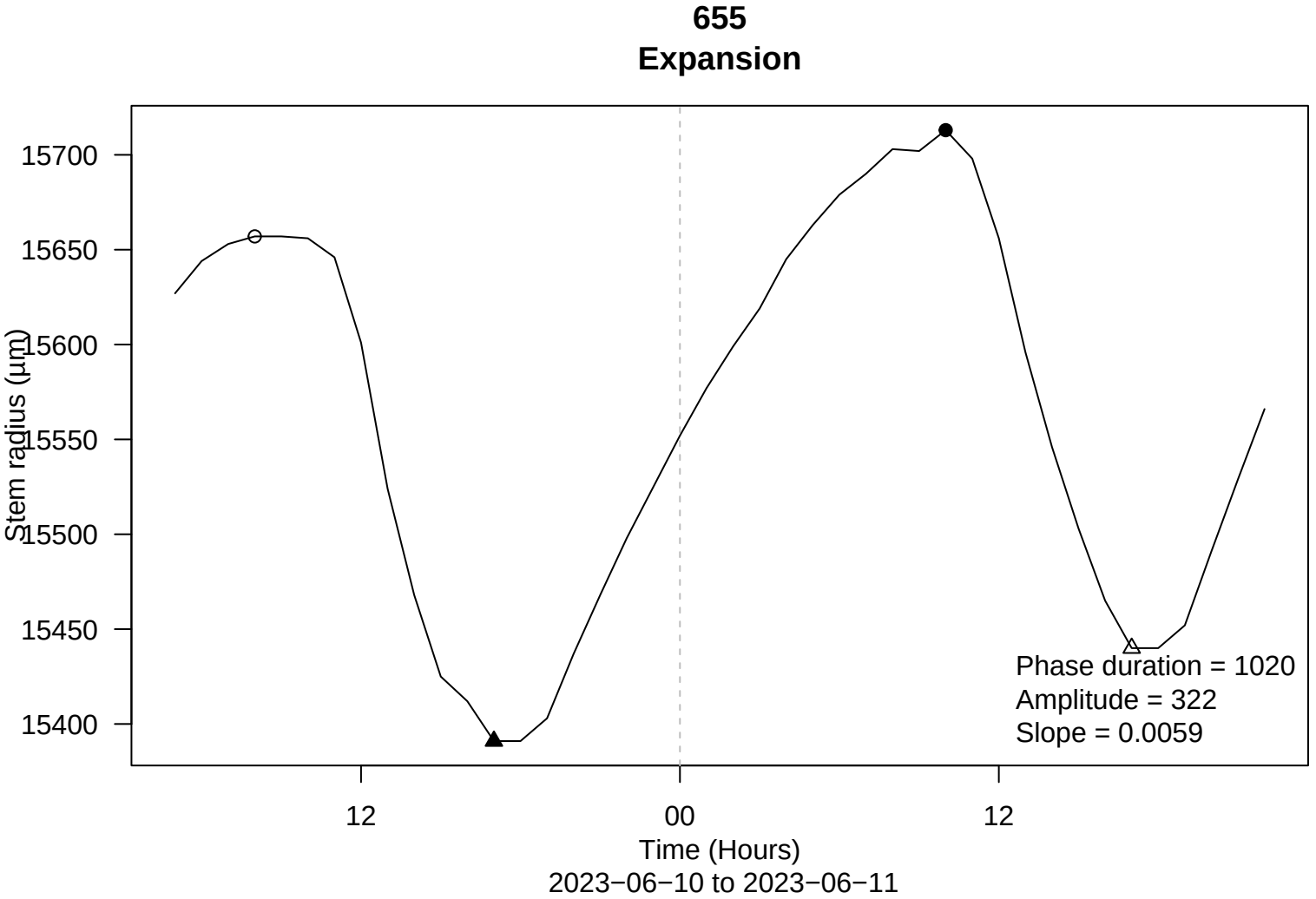

655
Shrinkage
15450
15400
15350
15300
15250
15200
15150
Stem radius (µm)
Phase duration = 540
Amplitude = −147
Slope = −0.0048
00
12
00
Time (Hours)
2023−06−08 to 2023−06−08

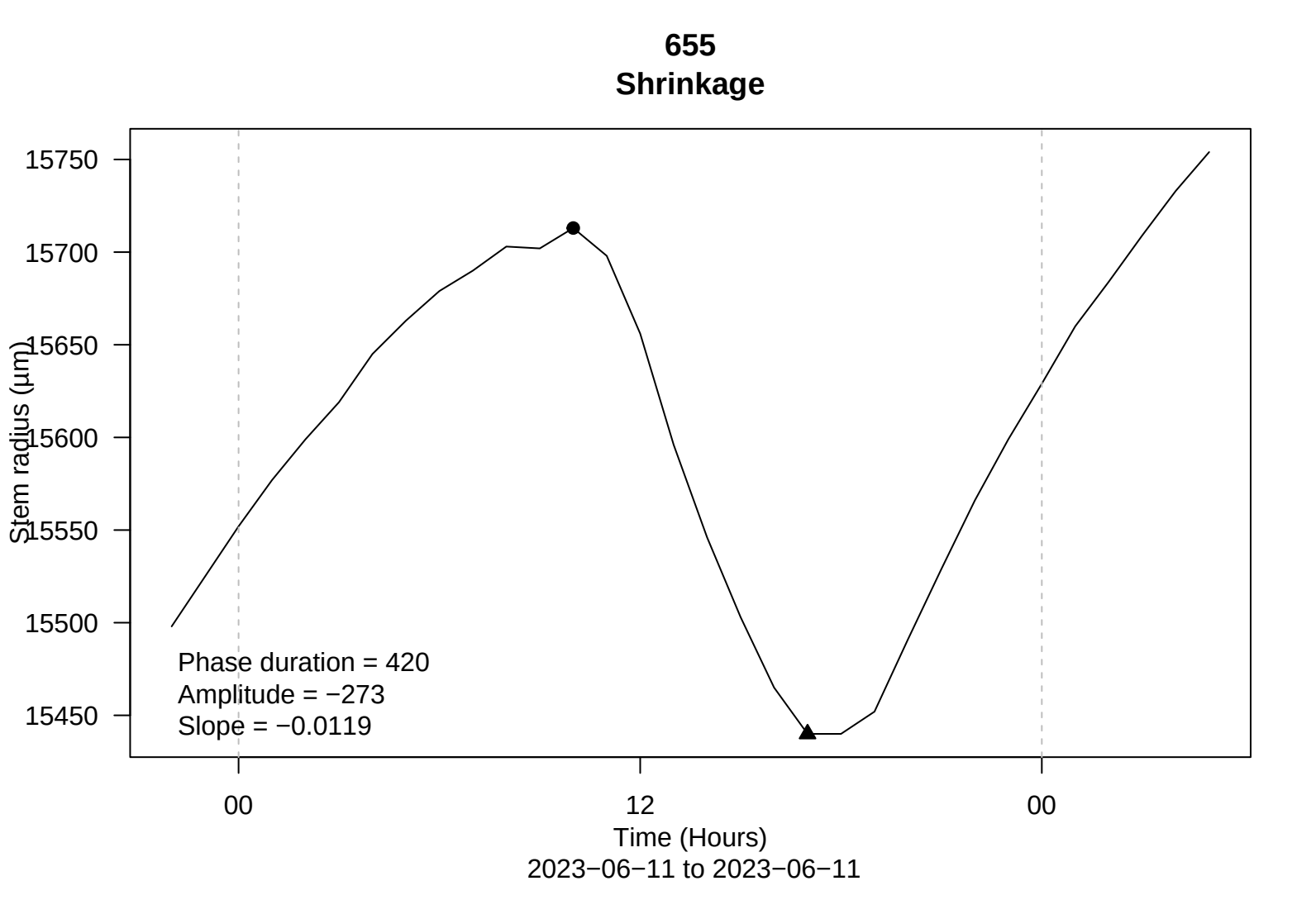

655
Expansion
15550
15500
15450
15400
15350
15300
15250
Stem radius (µm)
Phase duration = 1020
Amplitude = 310
Slope = 0.0059
12
00
12
Time (Hours)
2023−06−08 to 2023−06−09

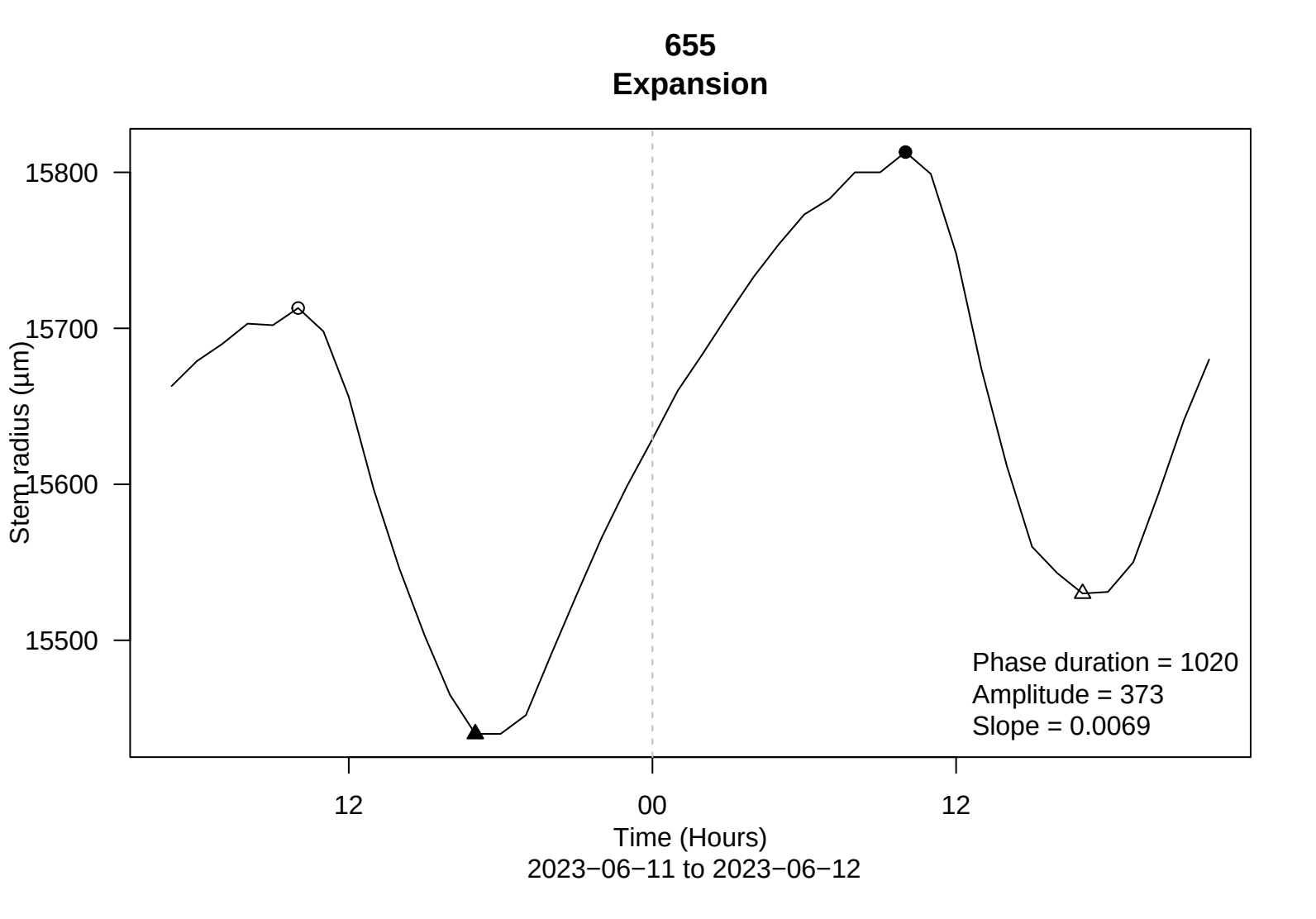

655
Shrinkage
15650
15600
15550
15500
15450
15400
15350
Stem radius (µm)
Phase duration = 480
Amplitude = −165
Slope = −0.0069
00
12
00
Time (Hours)
2023−06−09 to 2023−06−09

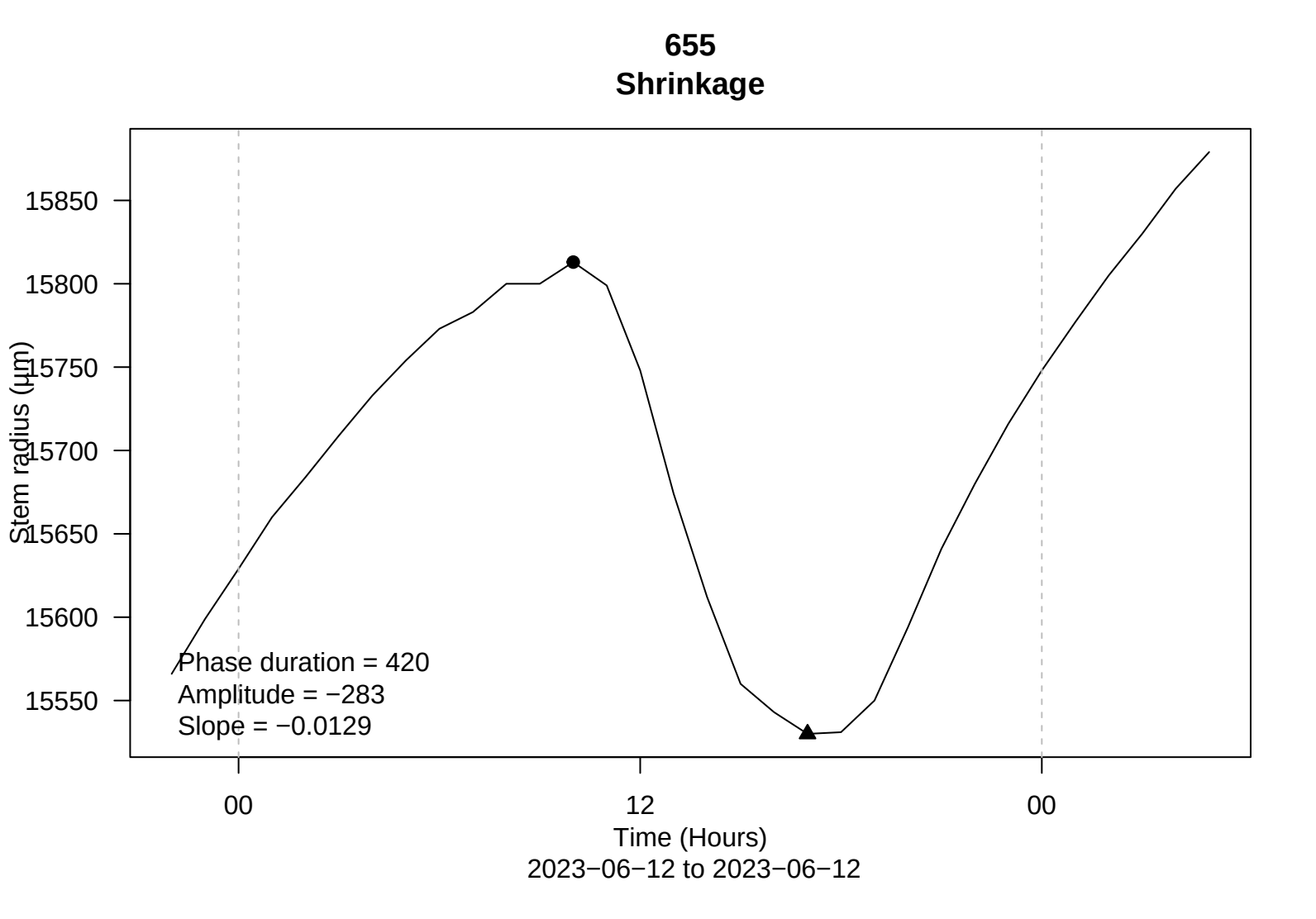

655
Expansion
15650
15600
15550
15500
15450
15400
Stem radius (µm)
Phase duration = 840
Amplitude = 277
Slope = 0.0062
12
00
12
Time (Hours)
2023−06−09 to 2023−06−10

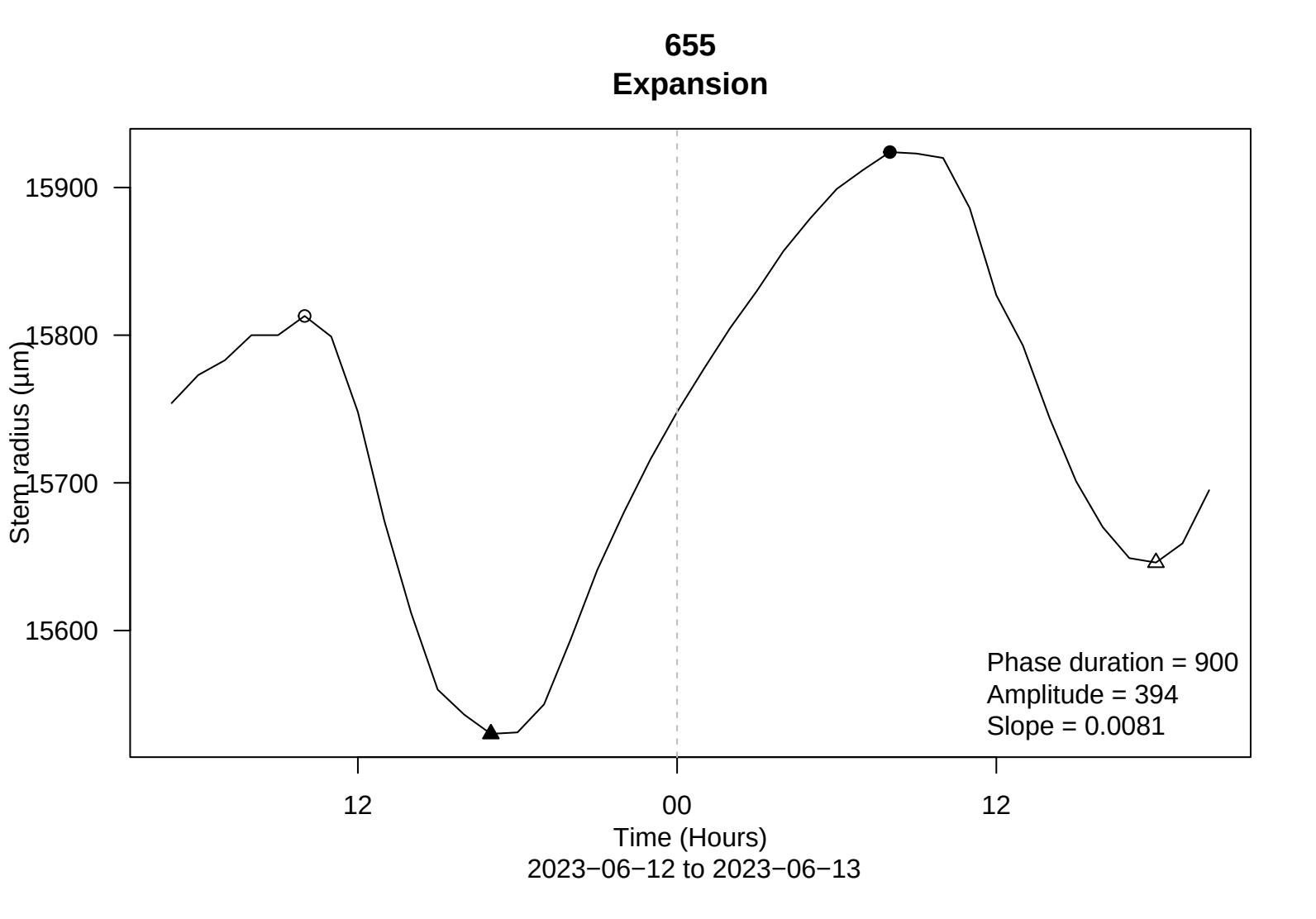

655
Shrinkage
15650
15600
15550
15500
15450
15400
Stem radius (µm)
Phase duration = 540
Amplitude = −266
Slope = −0.0099
00
12
00
Time (Hours)
2023−06−10 to 2023−06−10

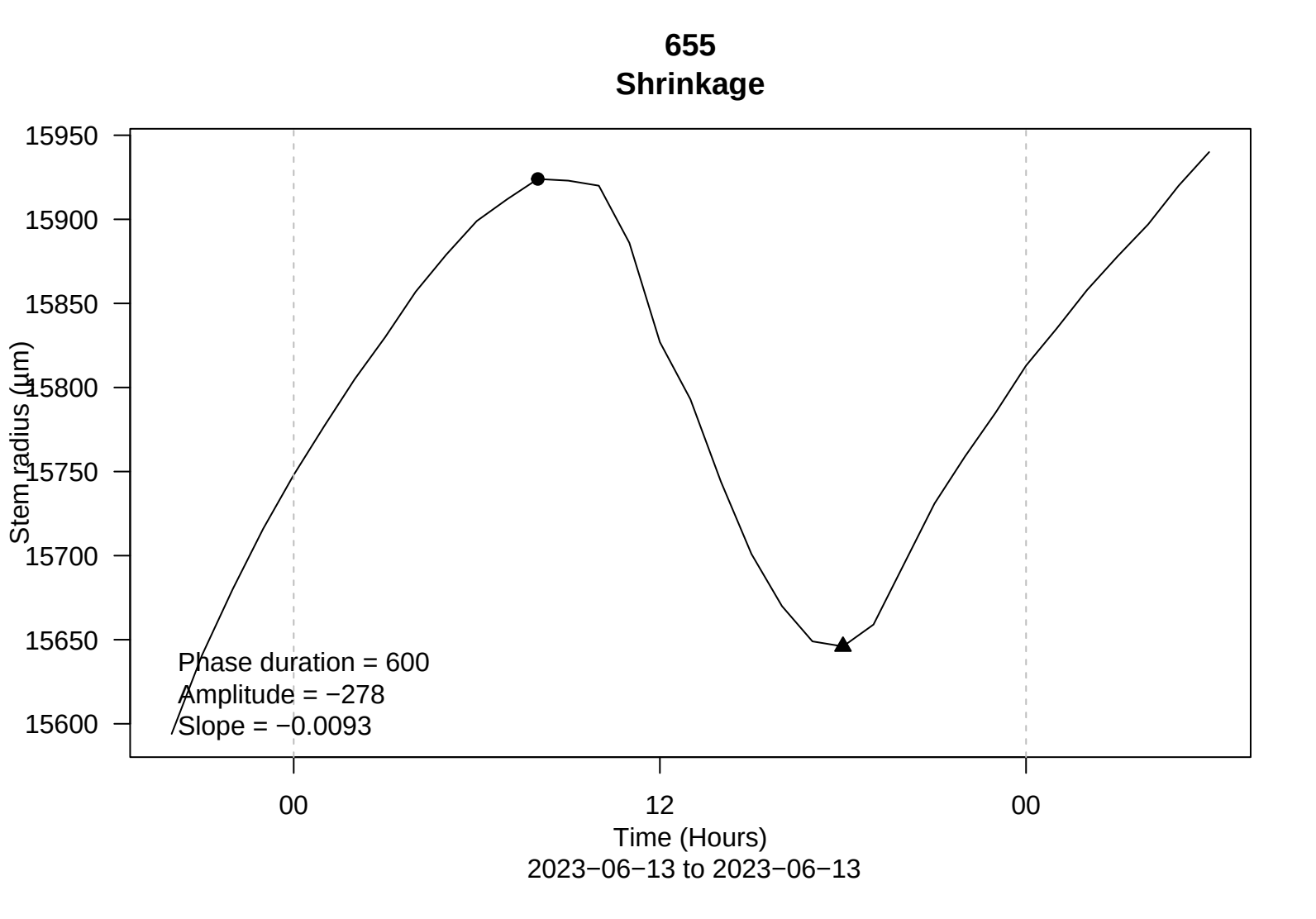

655
Expansion
15700
15650
15600
15550
15500
15450
15400
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−10 to 2023−06−11
Phase duration = 1020
Amplitude = 322
Slope = 0.0059

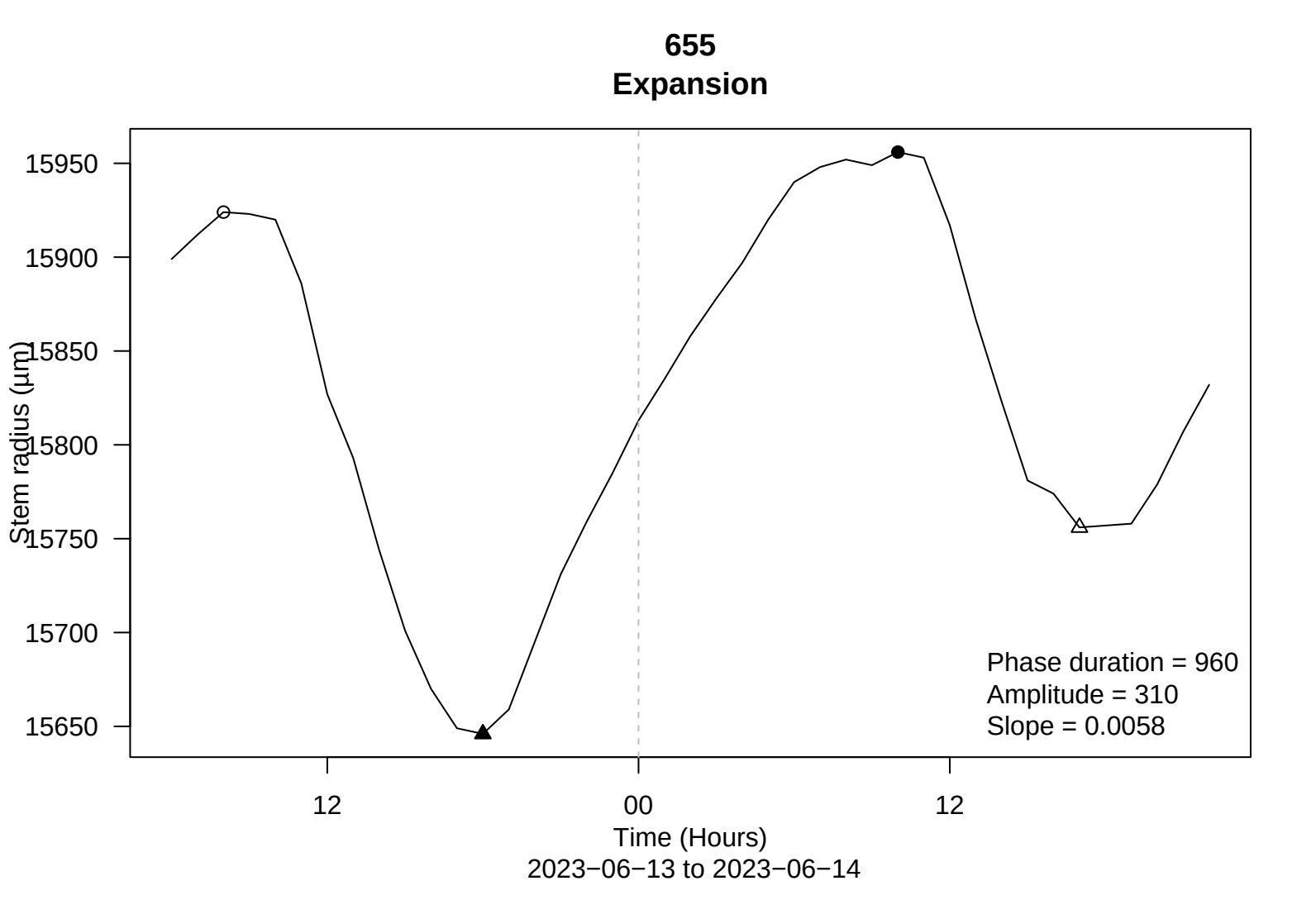

655
Shrinkage
15750
15700
15650
15600
15550
15500
15450
Stem radius (µm)
Phase duration = 420
Amplitude = −273
Slope = −0.0119
00
12
00
Time (Hours)
2023−06−11 to 2023−06−11

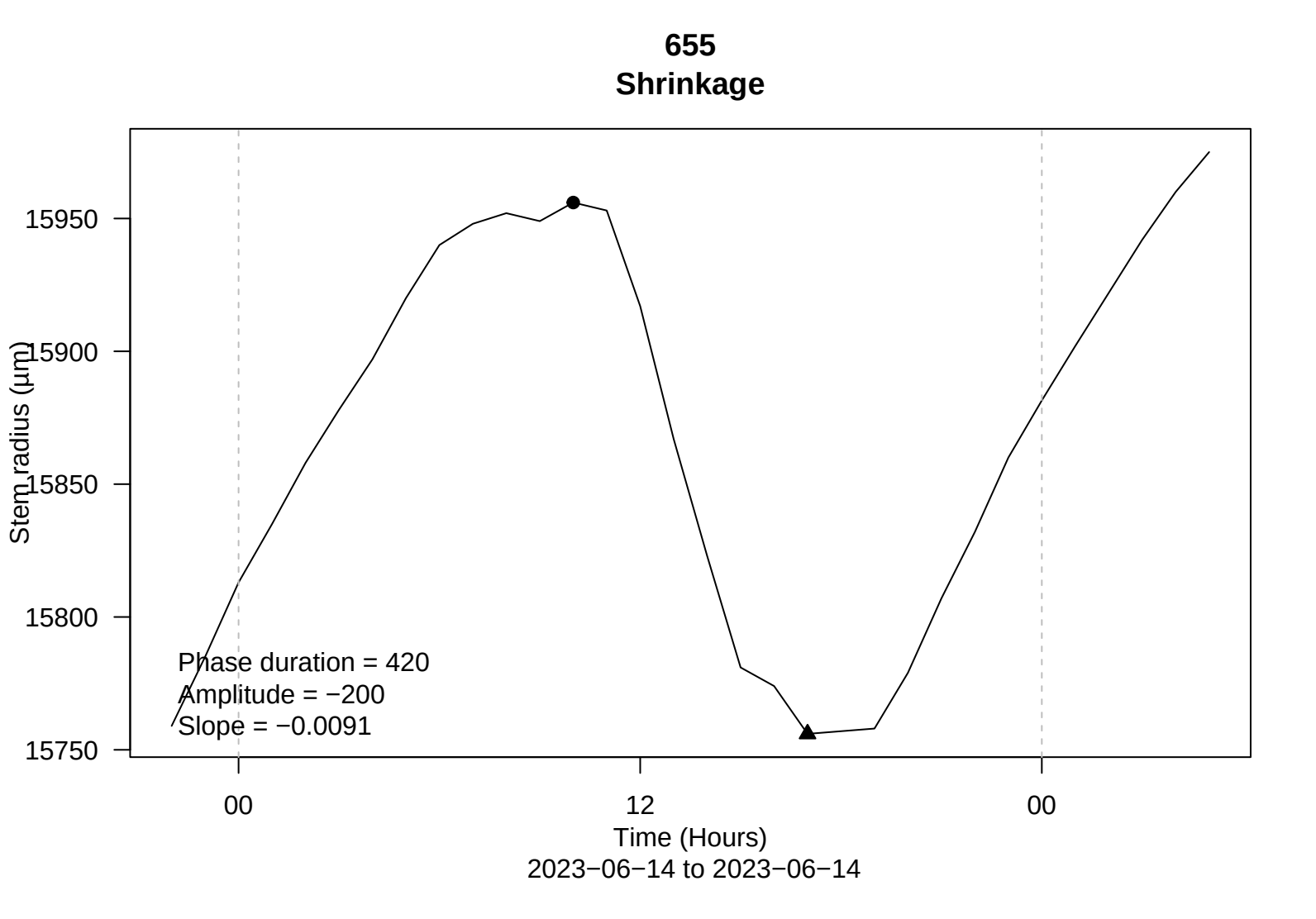

655
Expansion
15800
15700
15600
15500
Stem radius (µm)
Phase duration = 1020
Amplitude = 373
Slope = 0.0069
12
00
12
Time (Hours)
2023−06−11 to 2023−06−12

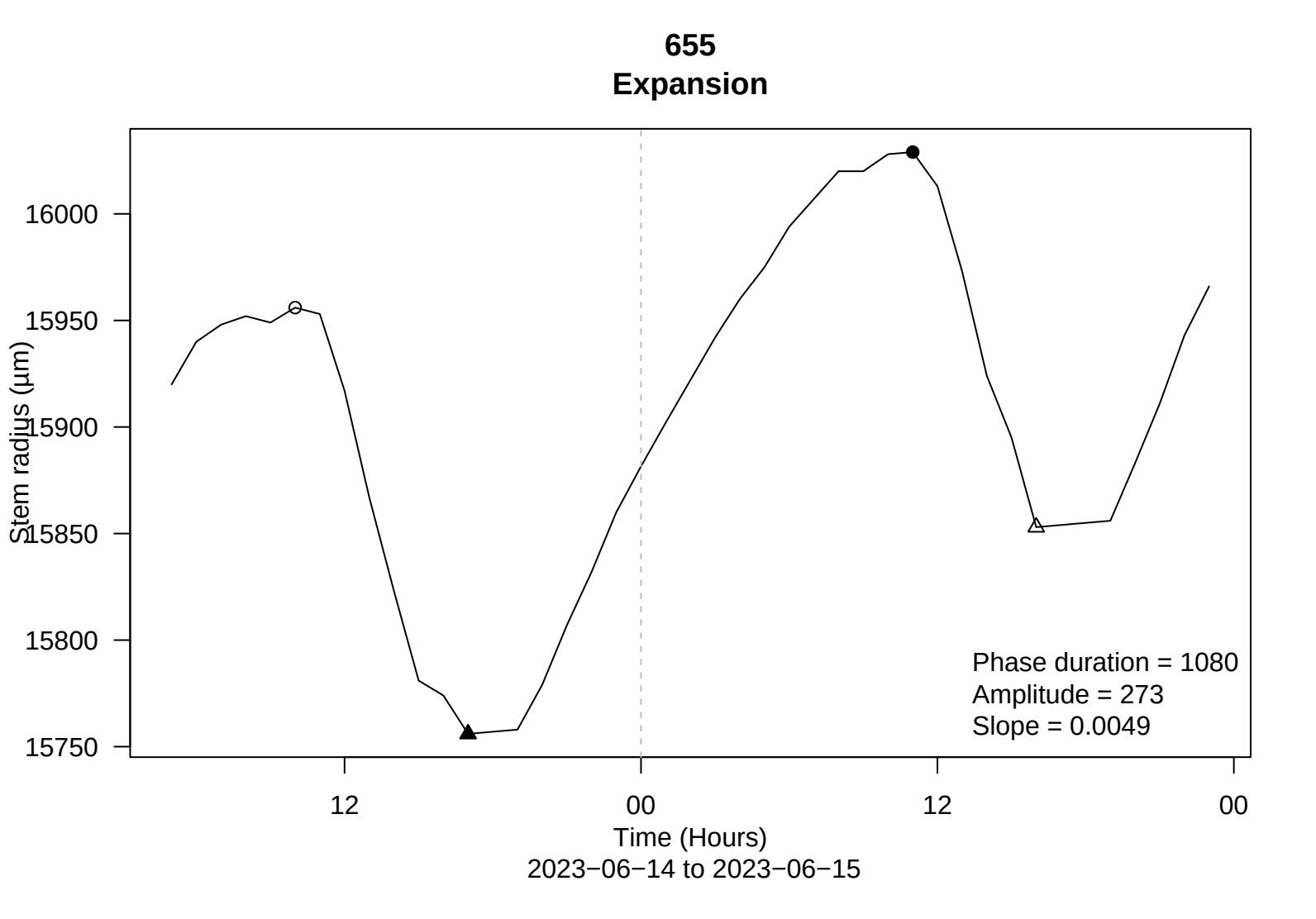

655
Shrinkage
15850
15800
15750
15700
15650
15600
15550
Stem radius (µm)
Phase duration = 420
Amplitude = −283
Slope = −0.0129
00
12
00
Time (Hours)
2023−06−12 to 2023−06−12

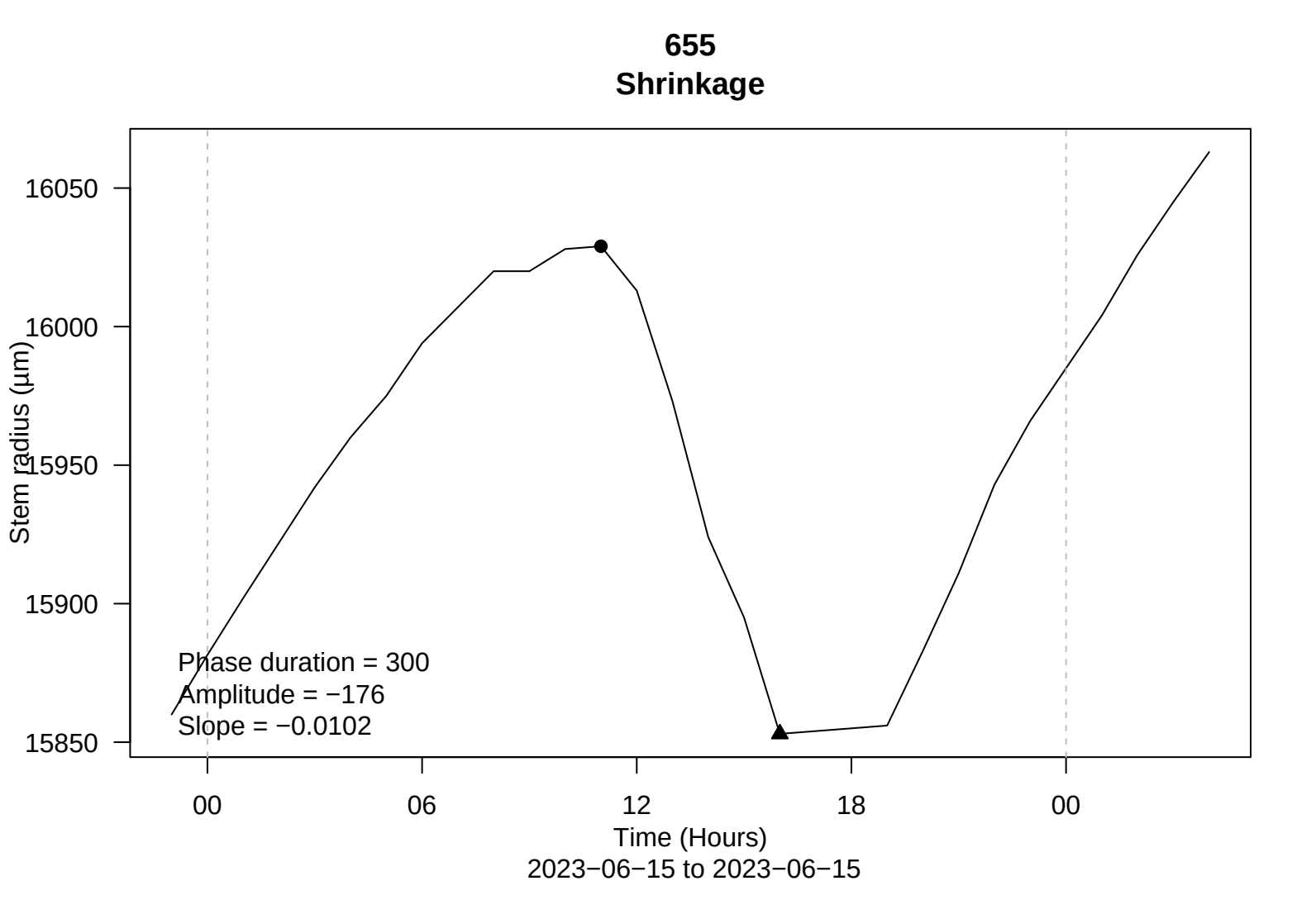

655
Expansion
15900
15800
15700
15600
Stem radius (µm)
Phase duration = 900
Amplitude = 394
Slope = 0.0081
12
00
12
Time (Hours)
2023−06−12 to 2023−06−13

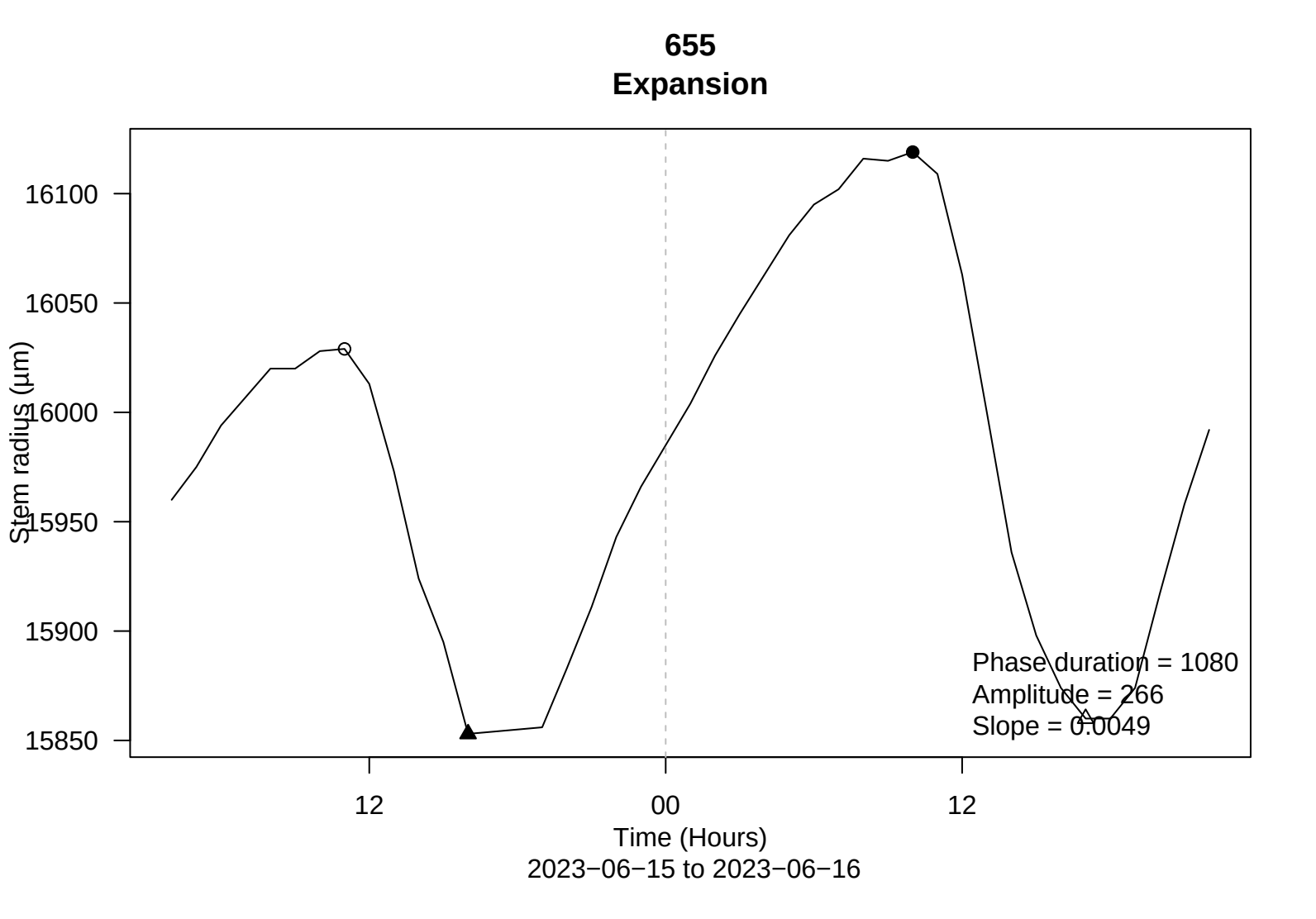

655
Shrinkage
15950
15900
15850
15800
15750
15700
15650
15600
Stem radius (µm)
Phase duration = 600
Amplitude = −278
Slope = −0.0093
00
12
00
Time (Hours)
2023−06−13 to 2023−06−13

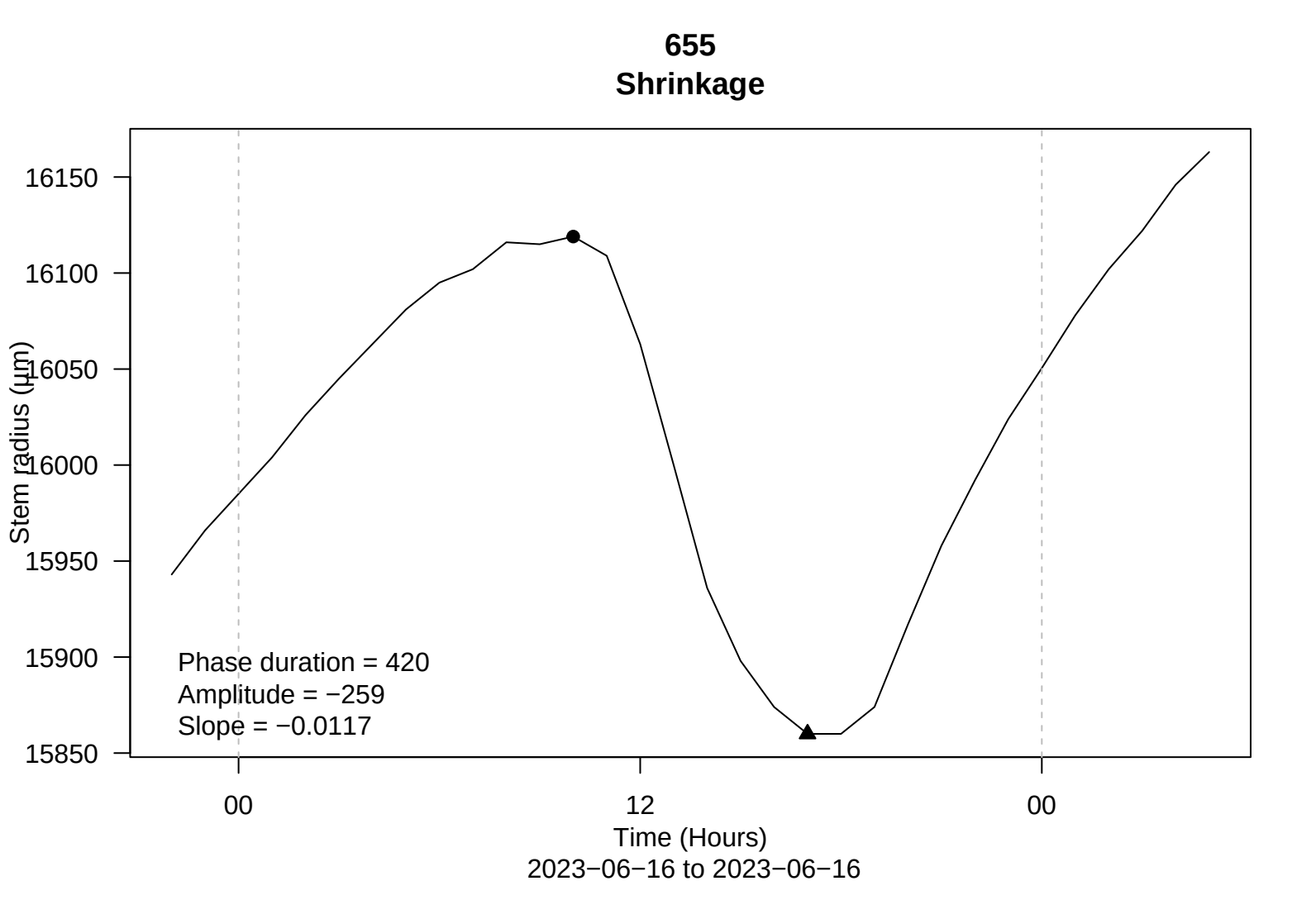

655
Expansion
15950
15900
15850
15800
15750
15700
15650
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−13 to 2023−06−14
Phase duration = 960
Amplitude = 310
Slope = 0.0058

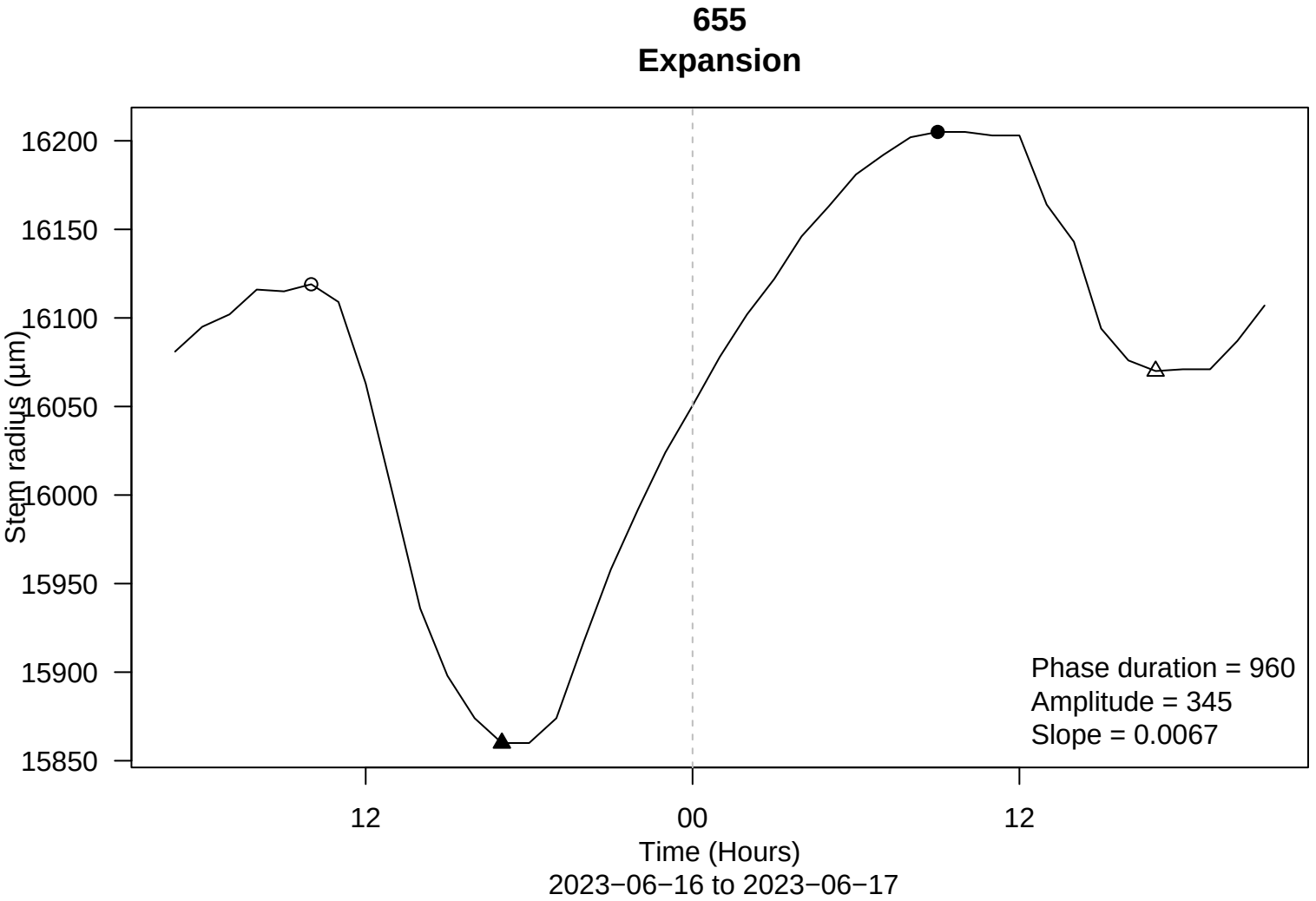

655
Shrinkage
15950
15900
15850
15800
15750
Stem radius (µm)
Phase duration = 420
Amplitude = −200
Slope = −0.0091
00
12
00
Time (Hours)
2023−06−14 to 2023−06−14

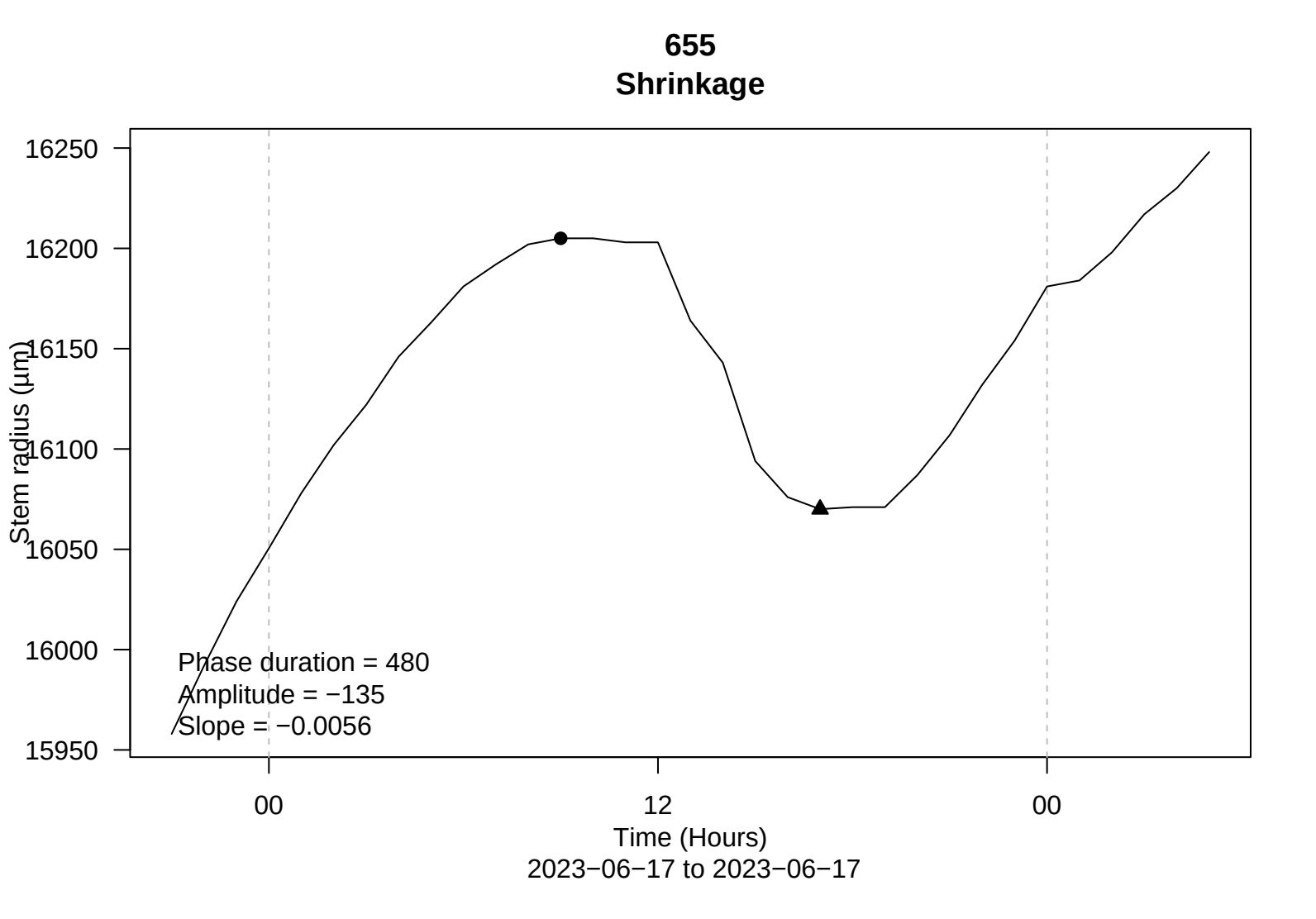

655
Expansion
16000
15950
15900
15850
15800
15750
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−06−14 to 2023−06−15
Phase duration = 1080
Amplitude = 273
Slope = 0.0049

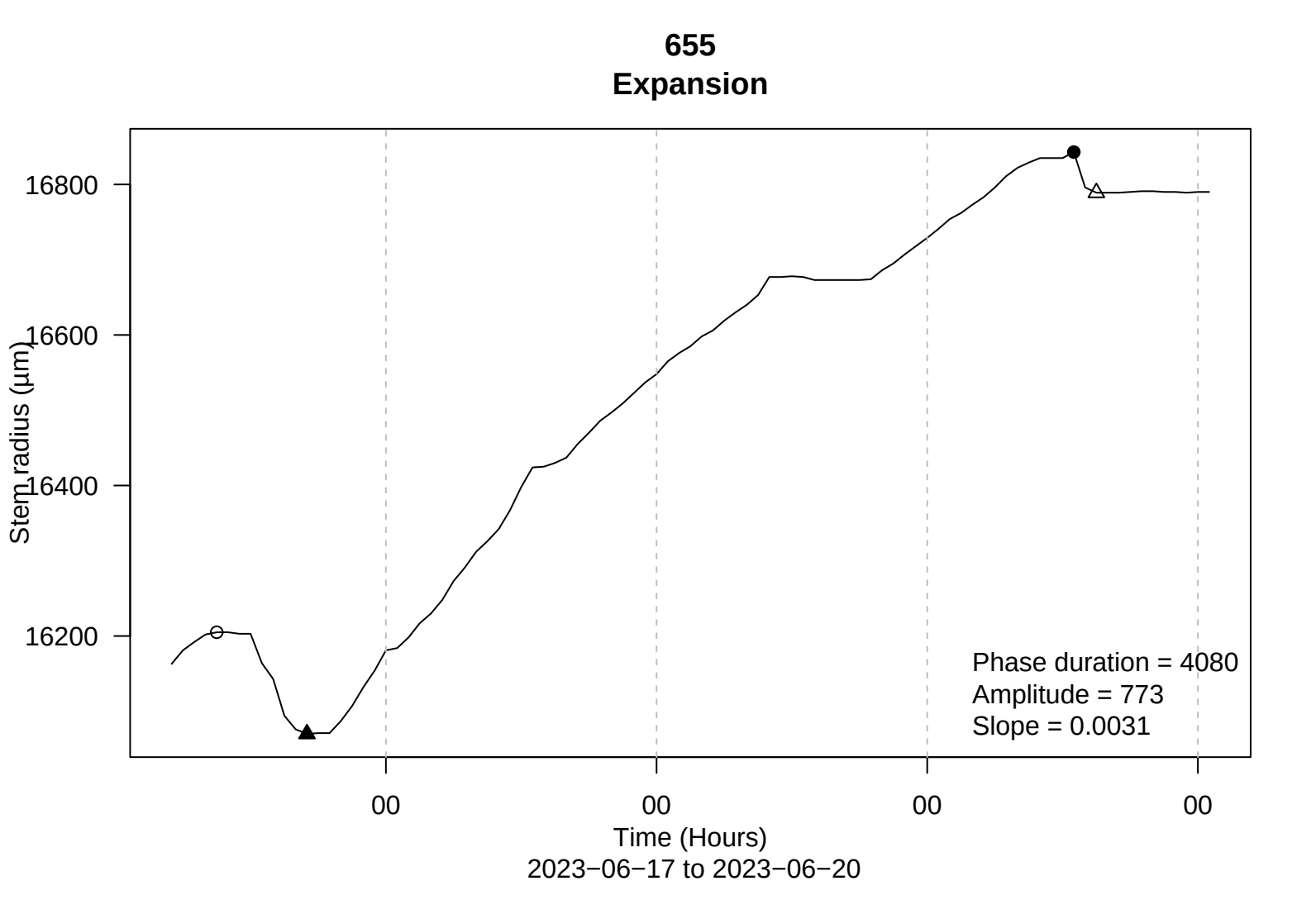

655
Shrinkage
16050
16000
15950
15900
15850
Stem radius (µm)
Phase duration = 300
Amplitude = −176
Slope = −0.0102
00
06
12
18
00
Time (Hours)
2023−06−15 to 2023−06−15

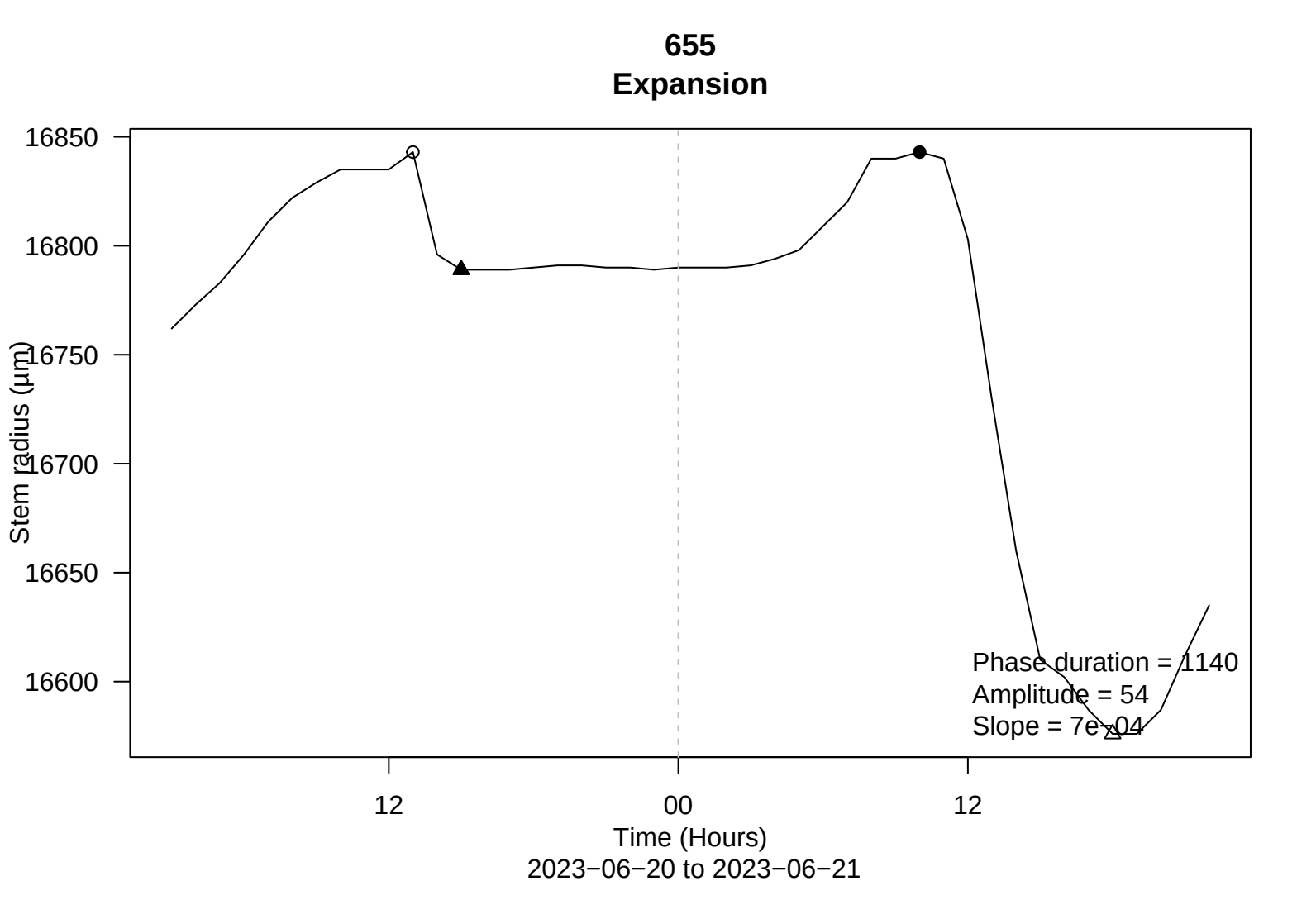

655
Expansion
16100
16050
16000
15950
15900
15850
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−15 to 2023−06−16
Phase duration = 1080
Amplitude = 266
Slope = 0.0049

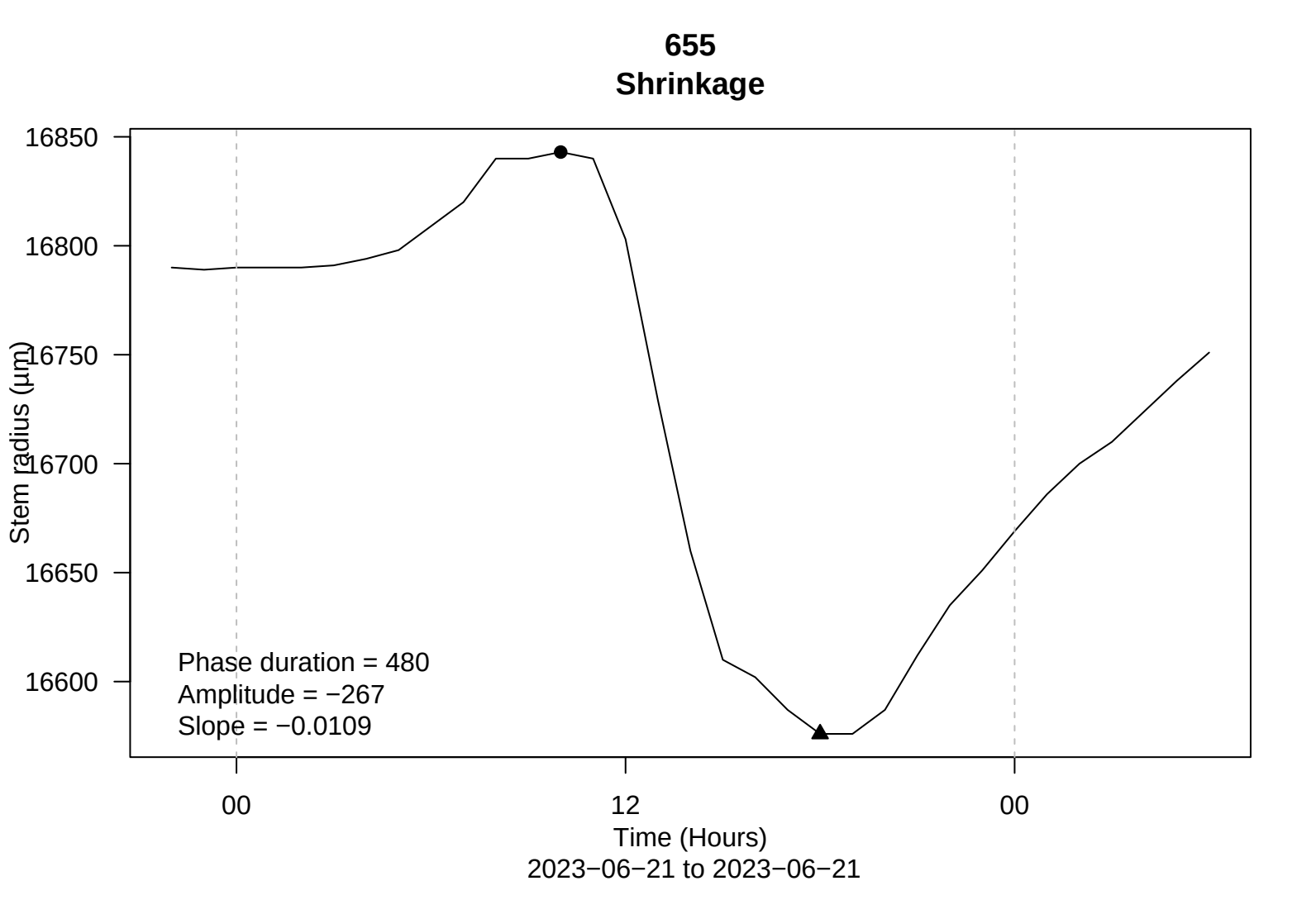

655
Shrinkage
16150
16100
16050
16000
15950
15900
15850
Stem radius (µm)
Phase duration = 420
Amplitude = −259
Slope = −0.0117
00
12
00
Time (Hours)
2023−06−16 to 2023−06−16

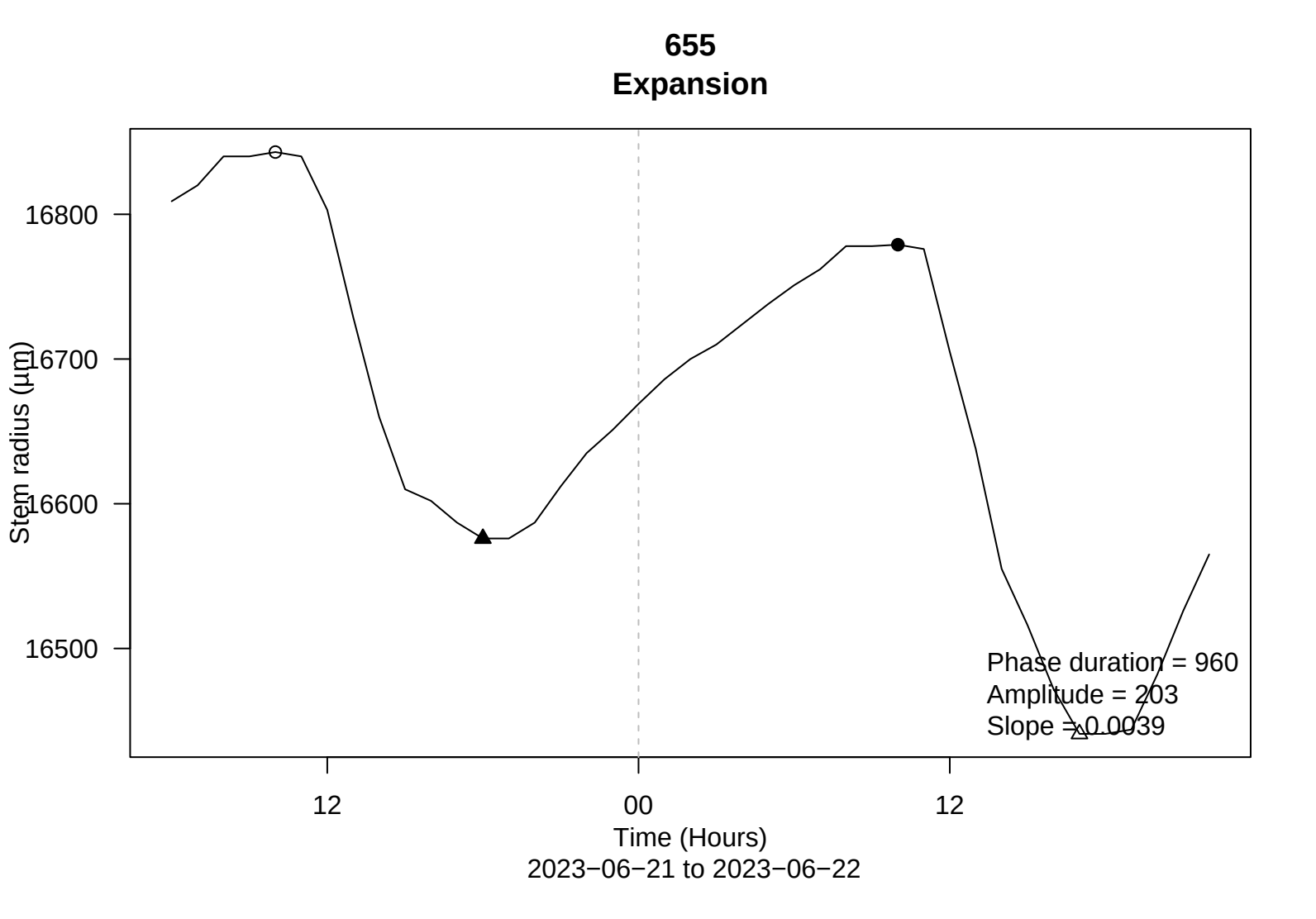

655
Expansion
16200
16150
16100
16050
16000
15950
15900
15850
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−16 to 2023−06−17
Phase duration = 960
Amplitude = 345
Slope = 0.0067

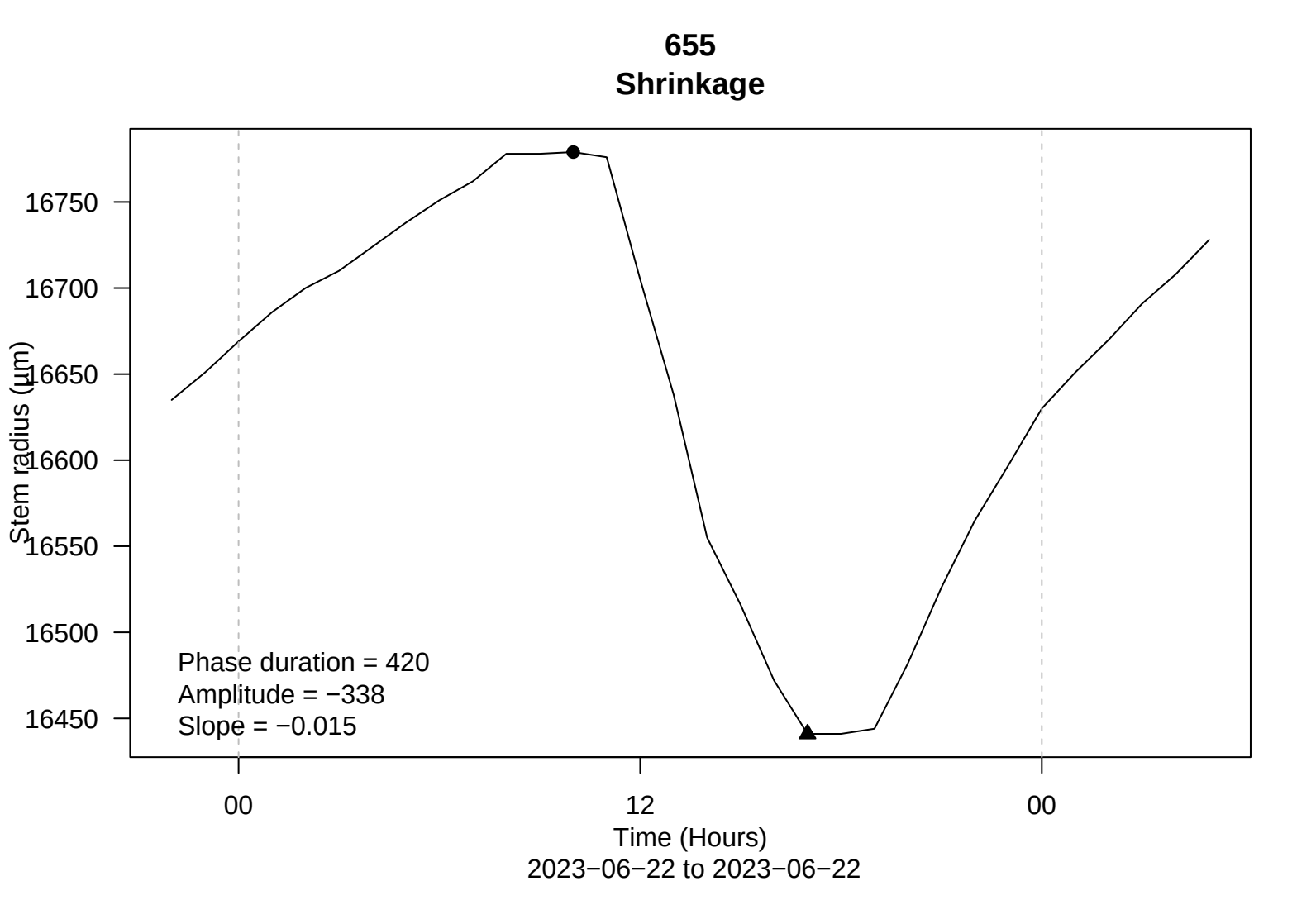

655
Shrinkage
16250
16200
16150
16100
16050
16000
15950
Stem radius (µm)
Phase duration = 480
Amplitude = −135
Slope = −0.0056
00
12
00
Time (Hours)
2023−06−17 to 2023−06−17

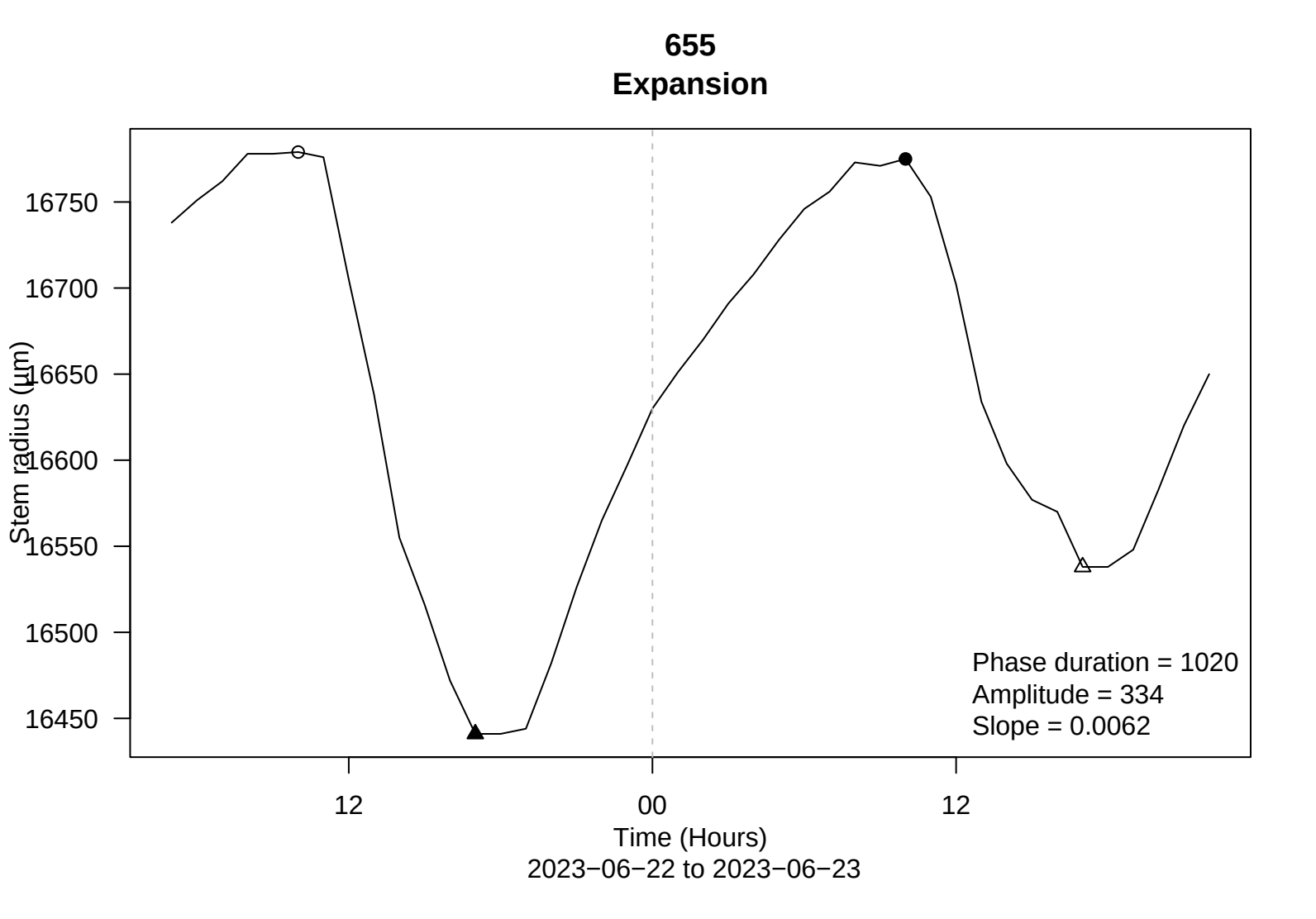

655
Expansion
16800
16600
16400
16200
Stem radius (µm)
Phase duration = 4080
Amplitude = 773
Slope = 0.0031
00
00
00
00
Time (Hours)
2023−06−17 to 2023−06−20

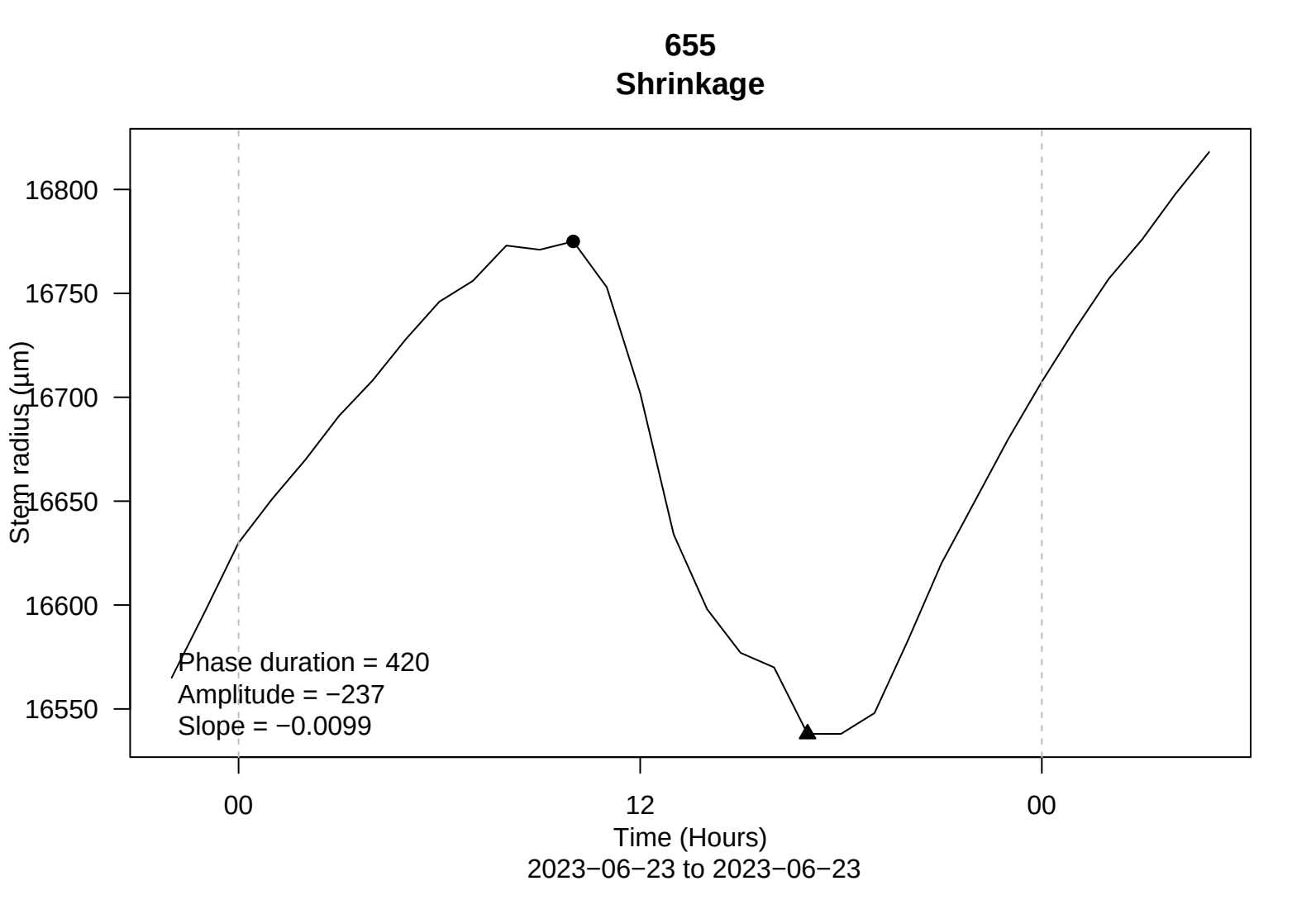

655
Expansion
16850
16800
16750
16700
16650
16600
Stem radius (µm)
Phase duration = 1140
Amplitude = 54
Slope = 7e−04
12
00
12
Time (Hours)
2023−06−20 to 2023−06−21

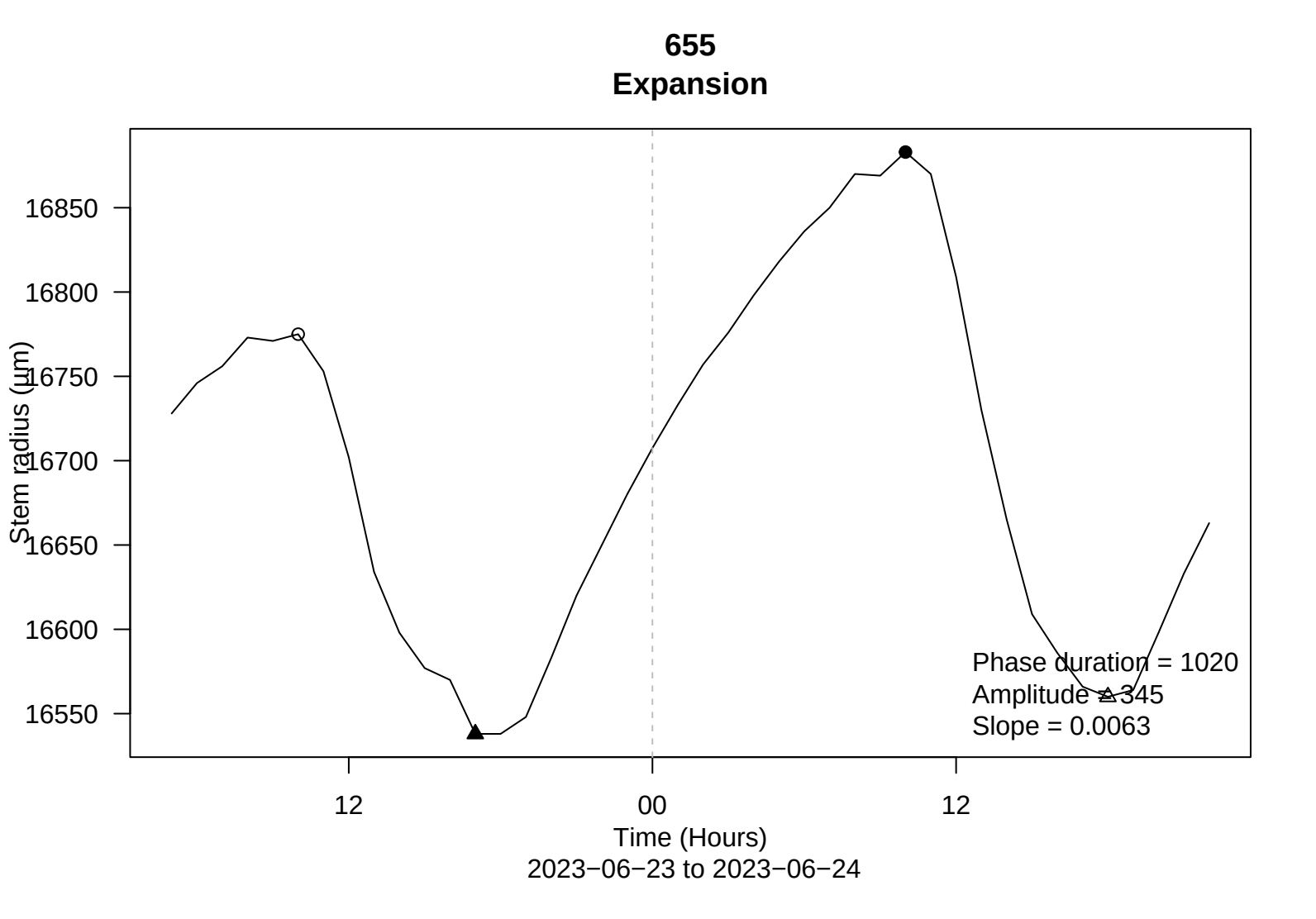

655
Shrinkage
16850
16800
16750
16700
16650
16600
Stem radius (µm)
Phase duration = 480
Amplitude = −267
Slope = −0.0109
00
12
00
Time (Hours)
2023−06−21 to 2023−06−21

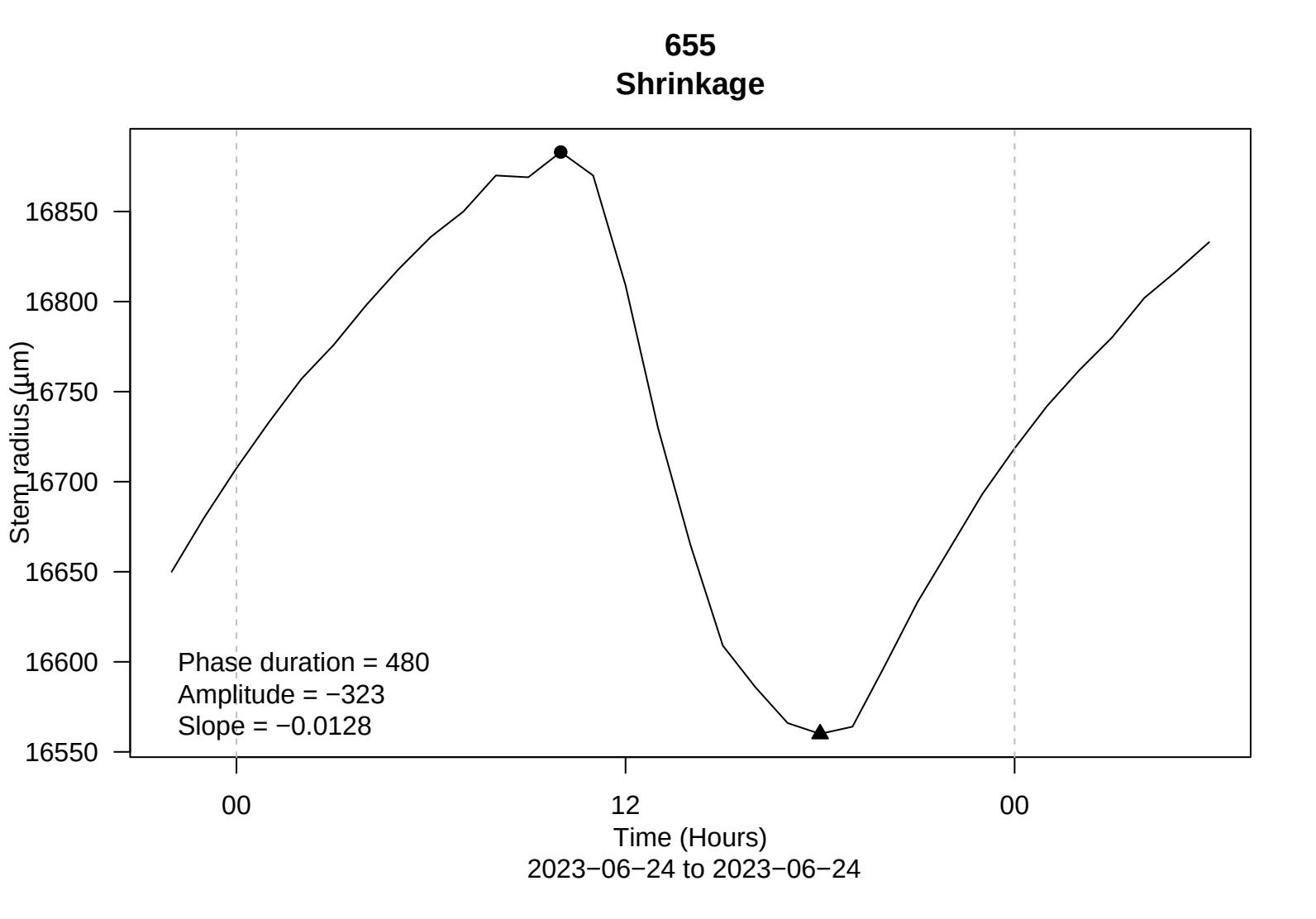

655
Expansion
16800
16700
16600
16500
Stem radius (µm)
Phase duration = 960
Amplitude = 203
Slope = 0.0039
12
00
12
Time (Hours)
2023−06−21 to 2023−06−22

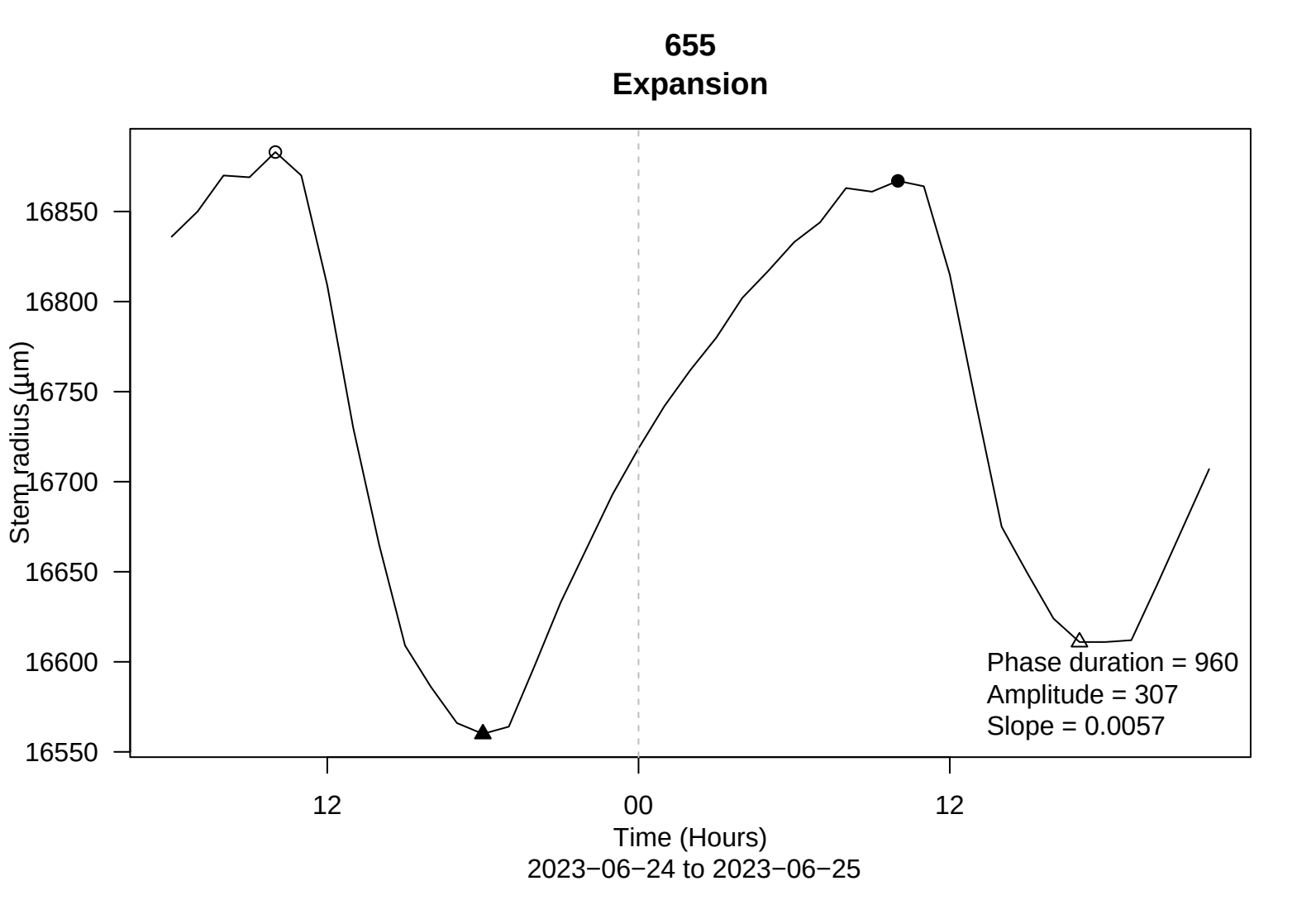

655
Shrinkage
16750
16700
16650
16600
16550
16500
16450
Stem radius (µm)
Phase duration = 420
Amplitude = −338
Slope = −0.015
00
12
00
Time (Hours)
2023−06−22 to 2023−06−22

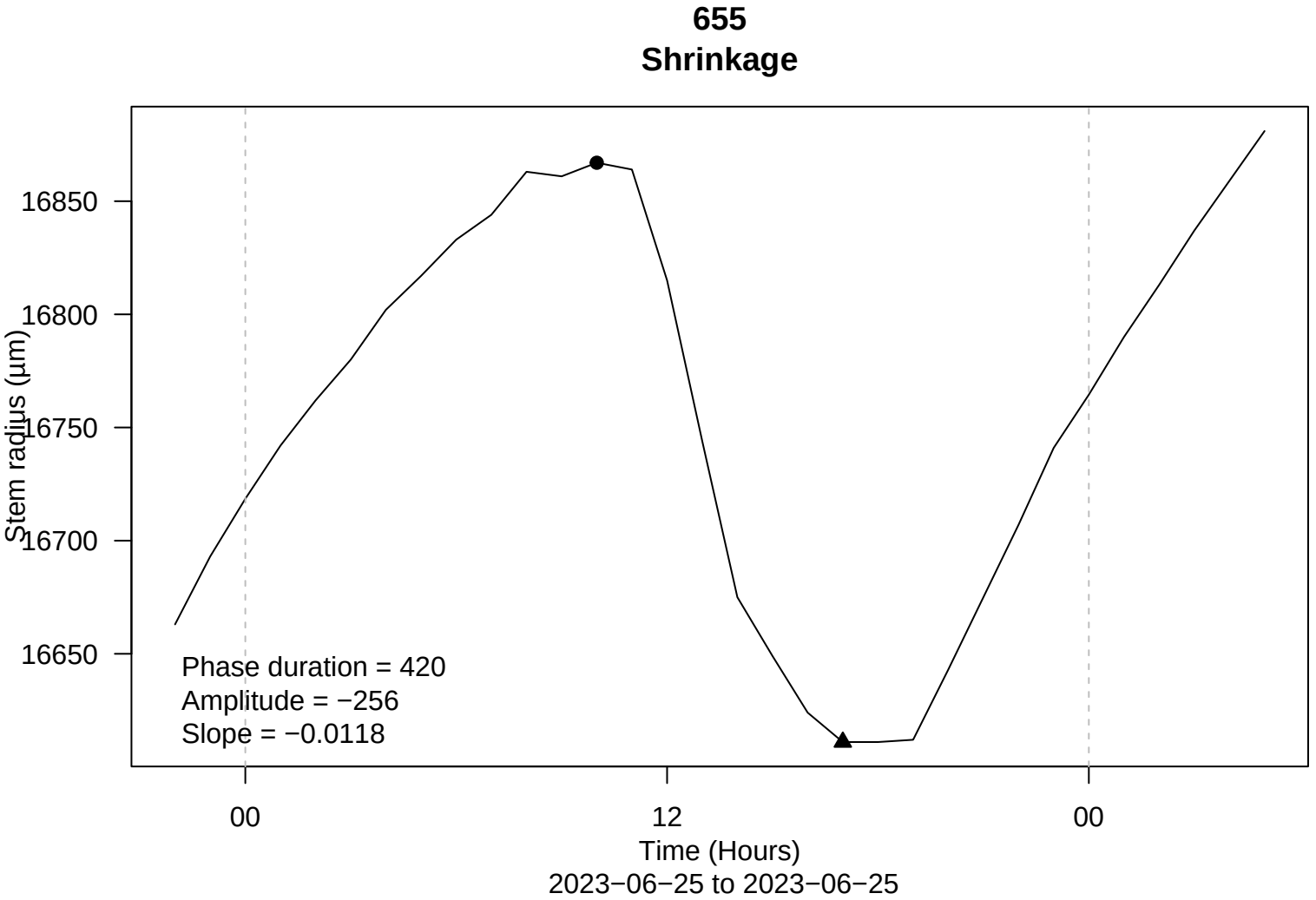

655
Expansion
16750
16700
16650
16600
16550
16500
16450
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−22 to 2023−06−23
Phase duration = 1020
Amplitude = 334
Slope = 0.0062

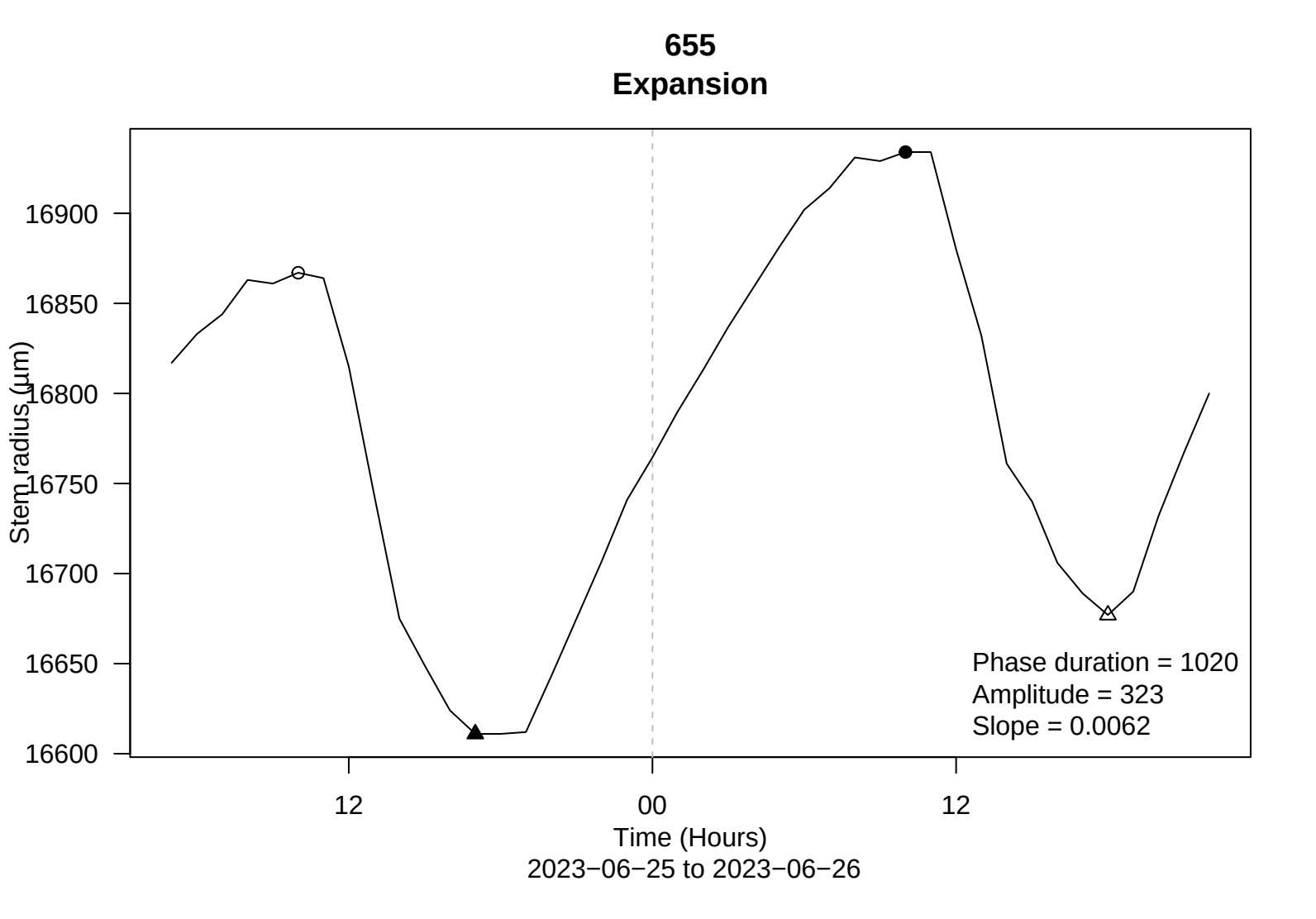

655
Shrinkage
16800
16750
16700
16650
16600
16550
Stem radius (µm)
Phase duration = 420
Amplitude = −237
Slope = −0.0099
00
12
00
Time (Hours)
2023−06−23 to 2023−06−23

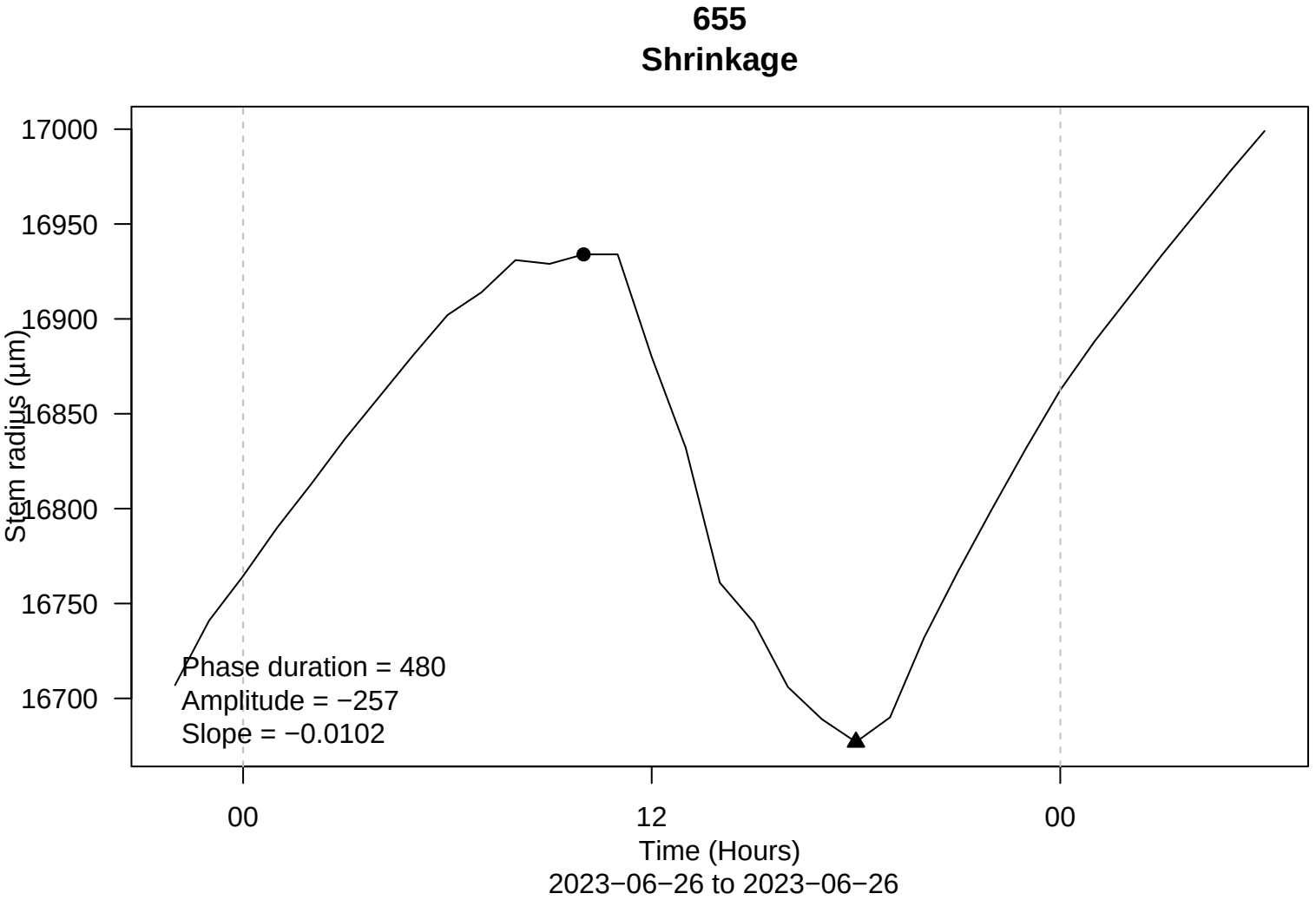

655
Expansion
16850
16800
16750
16700
16650
16600
16550
Stem radius (µm)
Phase duration = 1020
Amplitude = 345
Slope = 0.0063
12
00
12
Time (Hours)
2023−06−23 to 2023−06−24

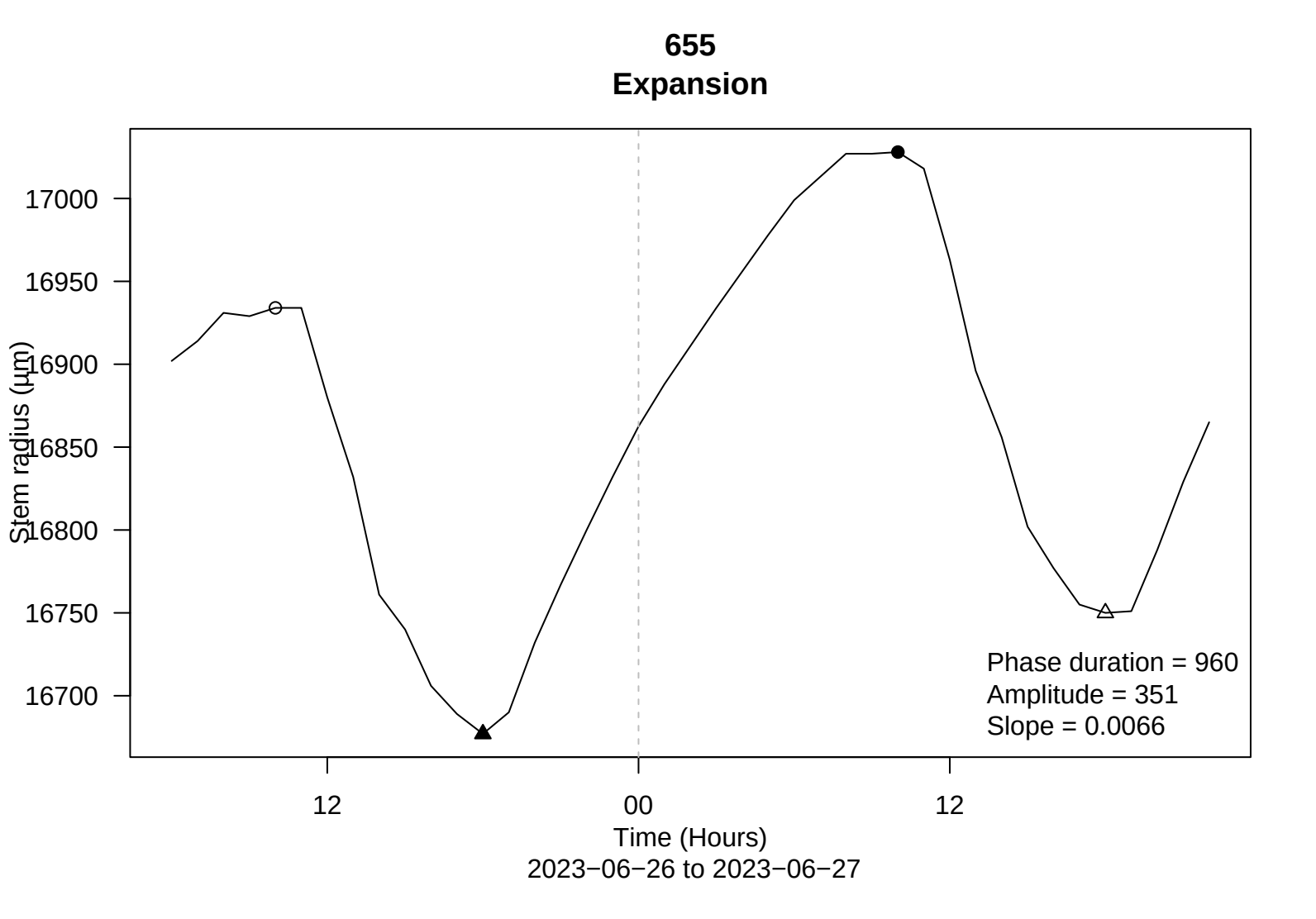

655
Shrinkage
16850
16800
16750
16700
16650
16600
16550
Stem radius (µm)
Phase duration = 480
Amplitude = −323
Slope = −0.0128
00
12
00
Time (Hours)
2023−06−24 to 2023−06−24

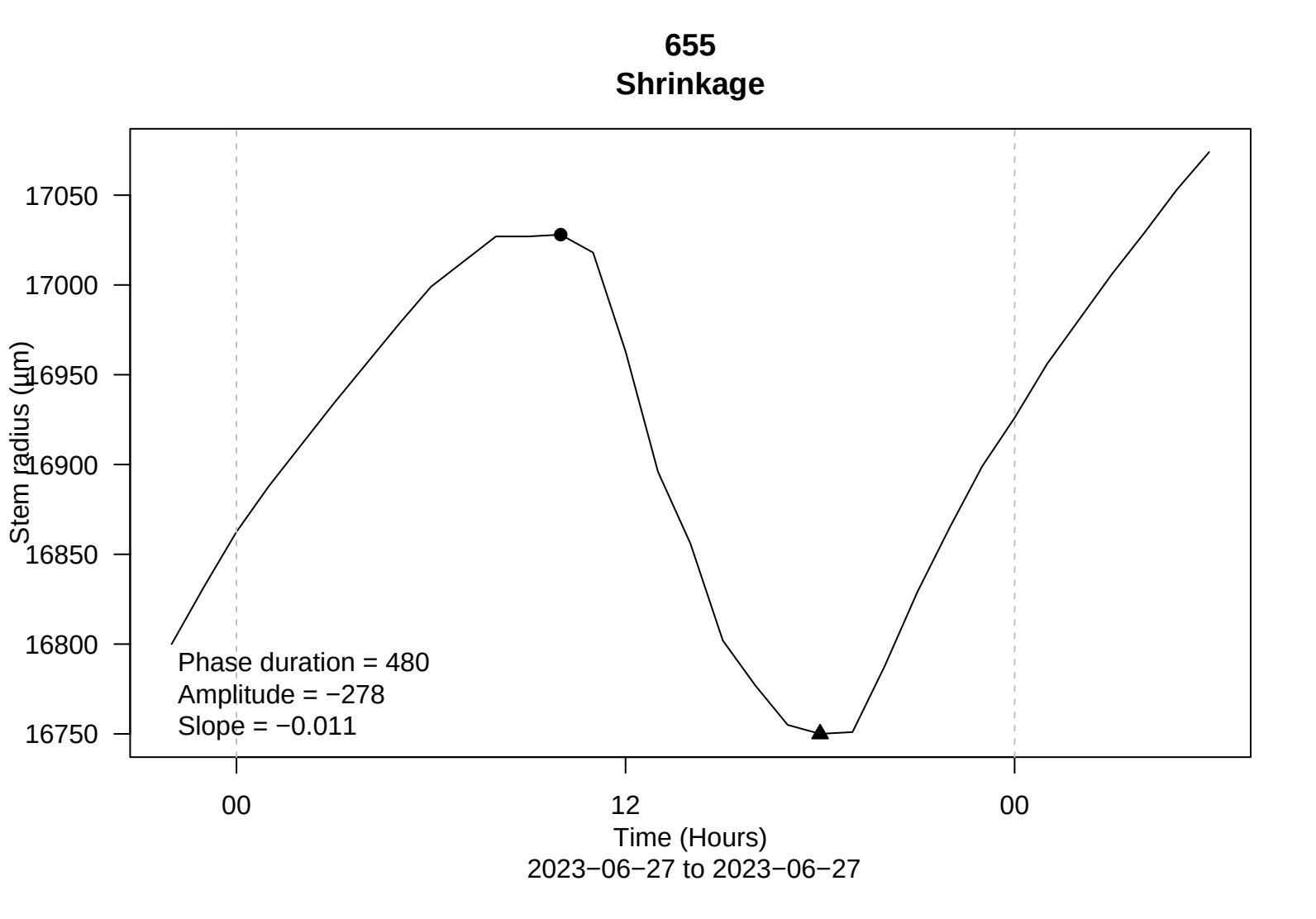

655
Expansion
16850
16800
16750
16700
16650
16600
16550
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−24 to 2023−06−25
Phase duration = 960
Amplitude = 307
Slope = 0.0057

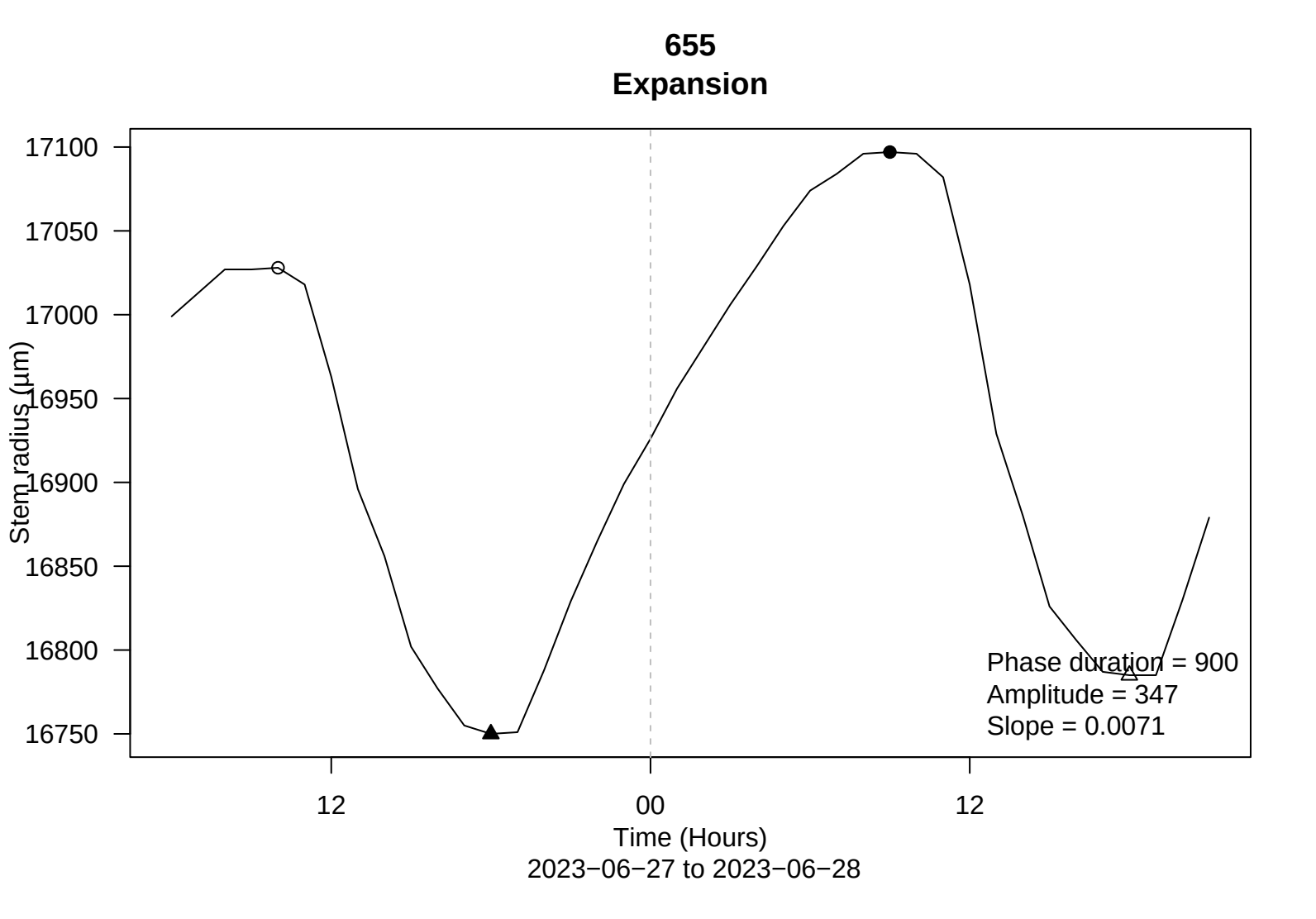

655
Shrinkage
16850
16800
16750
16700
16650
Stem radius (µm)
Phase duration = 420
Amplitude = −256
Slope = −0.0118
00
12
00
Time (Hours)
2023−06−25 to 2023−06−25

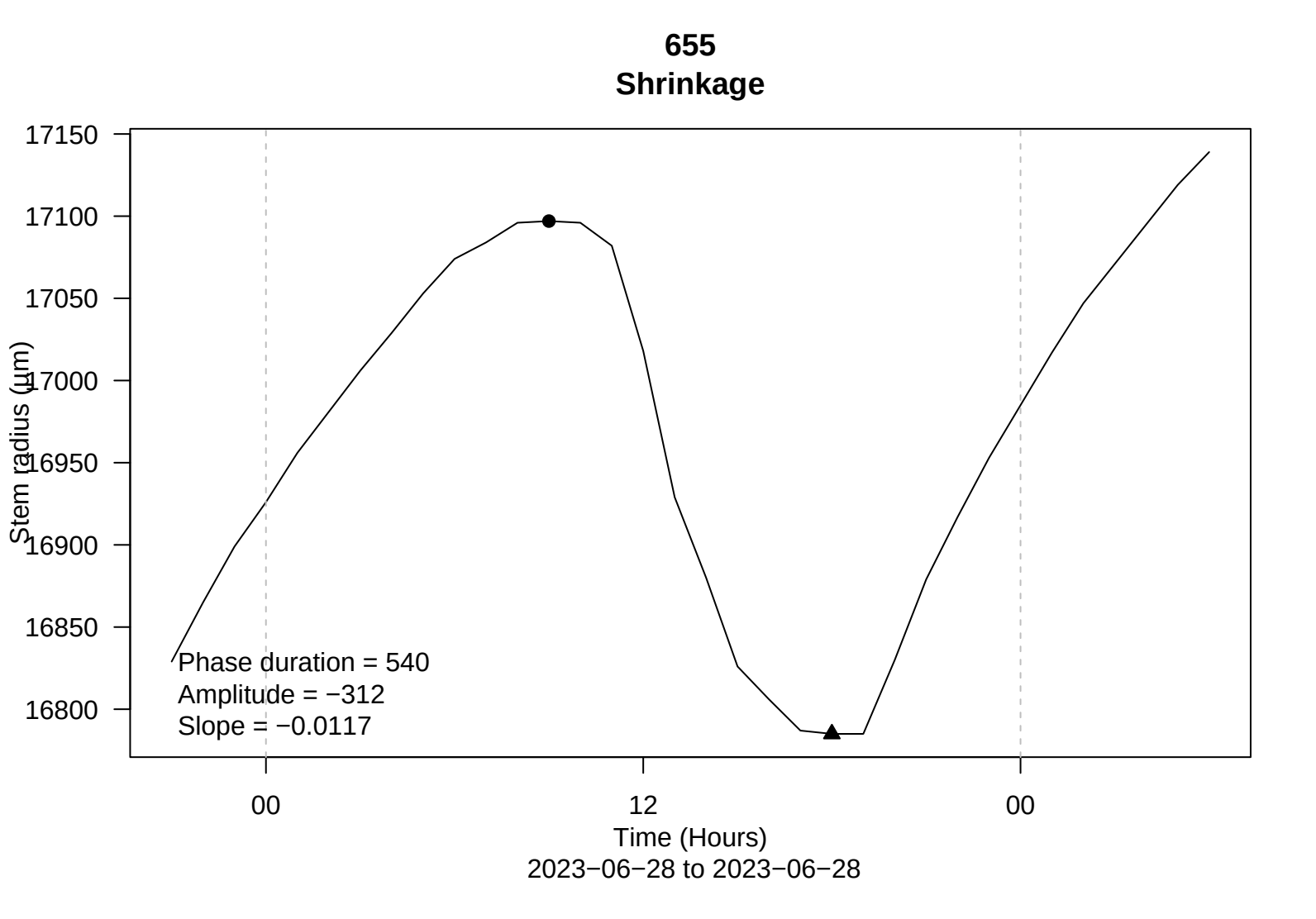

655
Expansion
16900
16850
16800
16750
16700
16650
16600
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−25 to 2023−06−26
Phase duration = 1020
Amplitude = 323
Slope = 0.0062

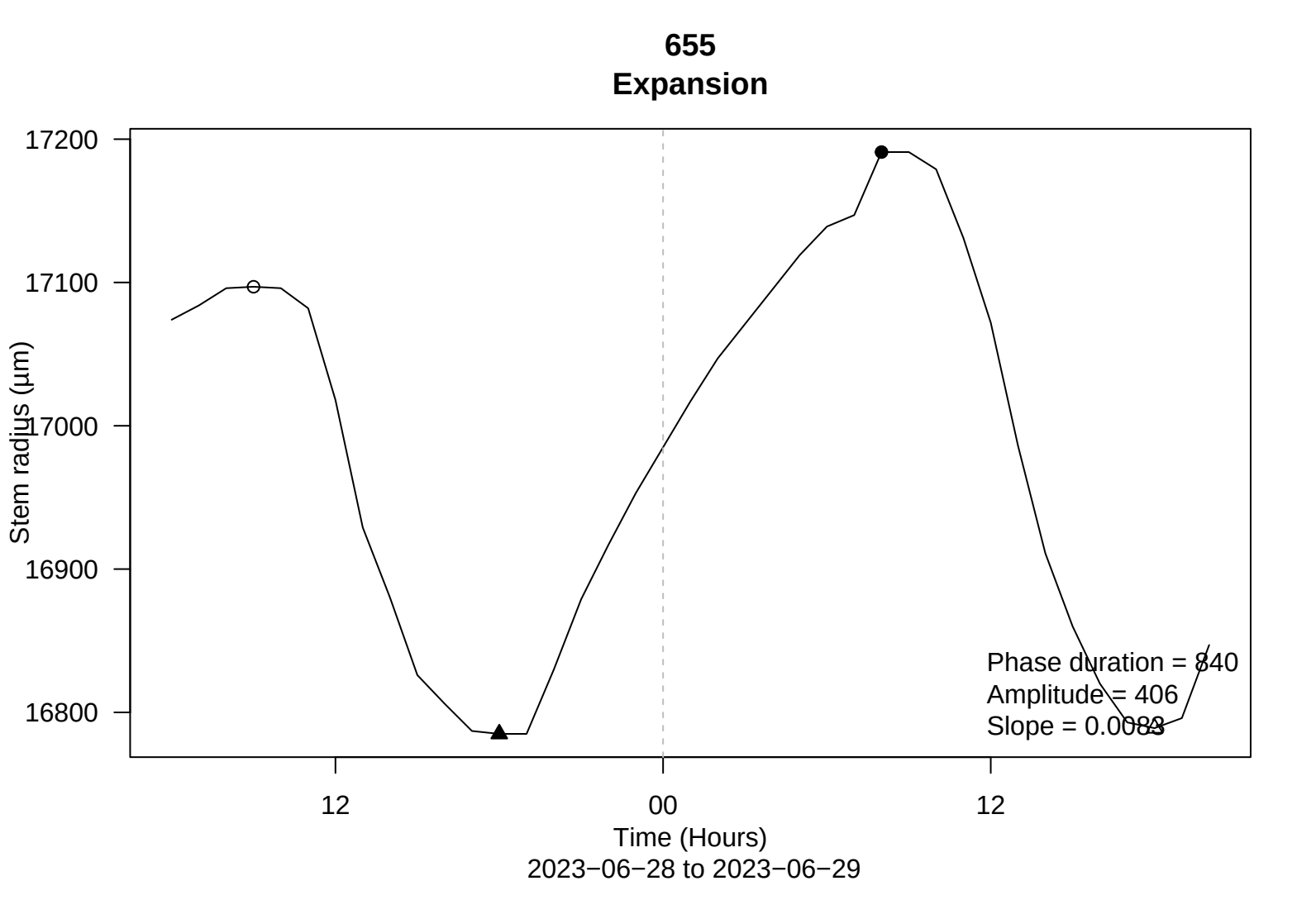

655
Shrinkage
17000
16950
16900
16850
16800
16750
16700
Stem radius (µm)
Phase duration = 480
Amplitude = −257
Slope = −0.0102
00
12
00
Time (Hours)
2023−06−26 to 2023−06−26

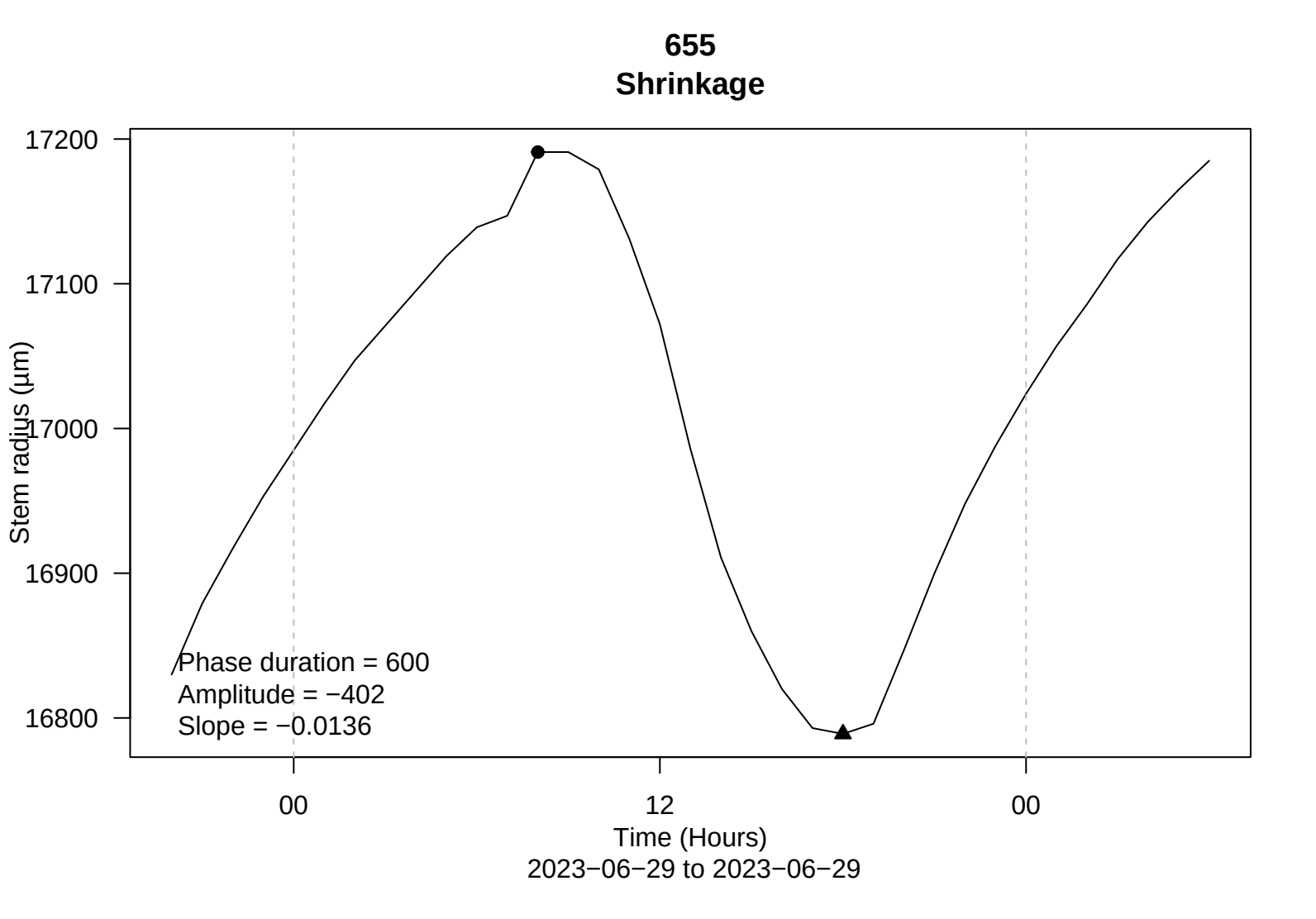

655
Expansion
17000
16950
16900
16850
16800
16750
16700
Stem radius (µm)
Phase duration = 960
Amplitude = 351
Slope = 0.0066
12
00
12
Time (Hours)
2023−06−26 to 2023−06−27

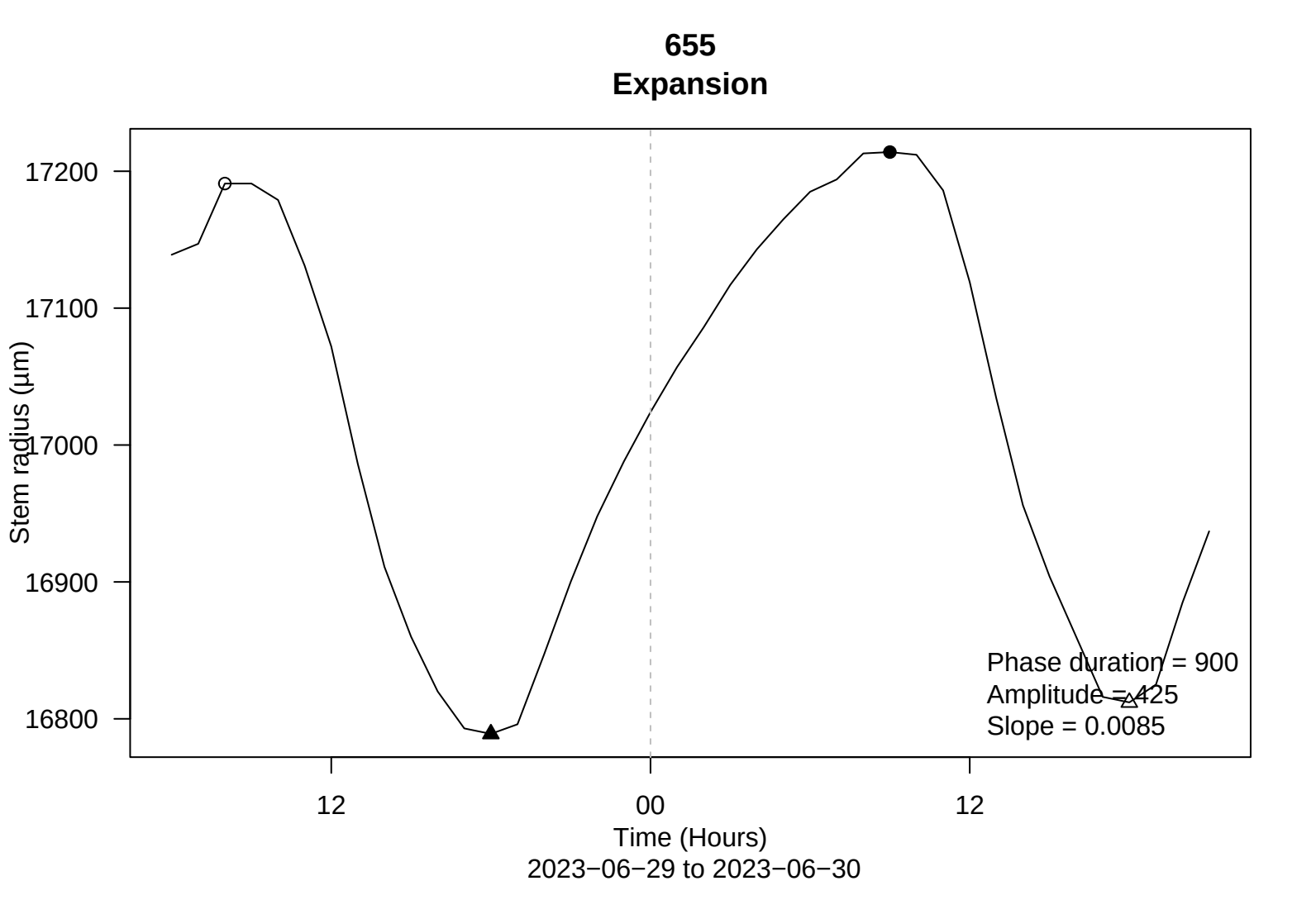

655
Shrinkage
17050
17000
16950
16900
16850
16800
16750
Stem radius (µm)
Phase duration = 480
Amplitude = −278
Slope = −0.011
00
12
00
Time (Hours)
2023−06−27 to 2023−06−27

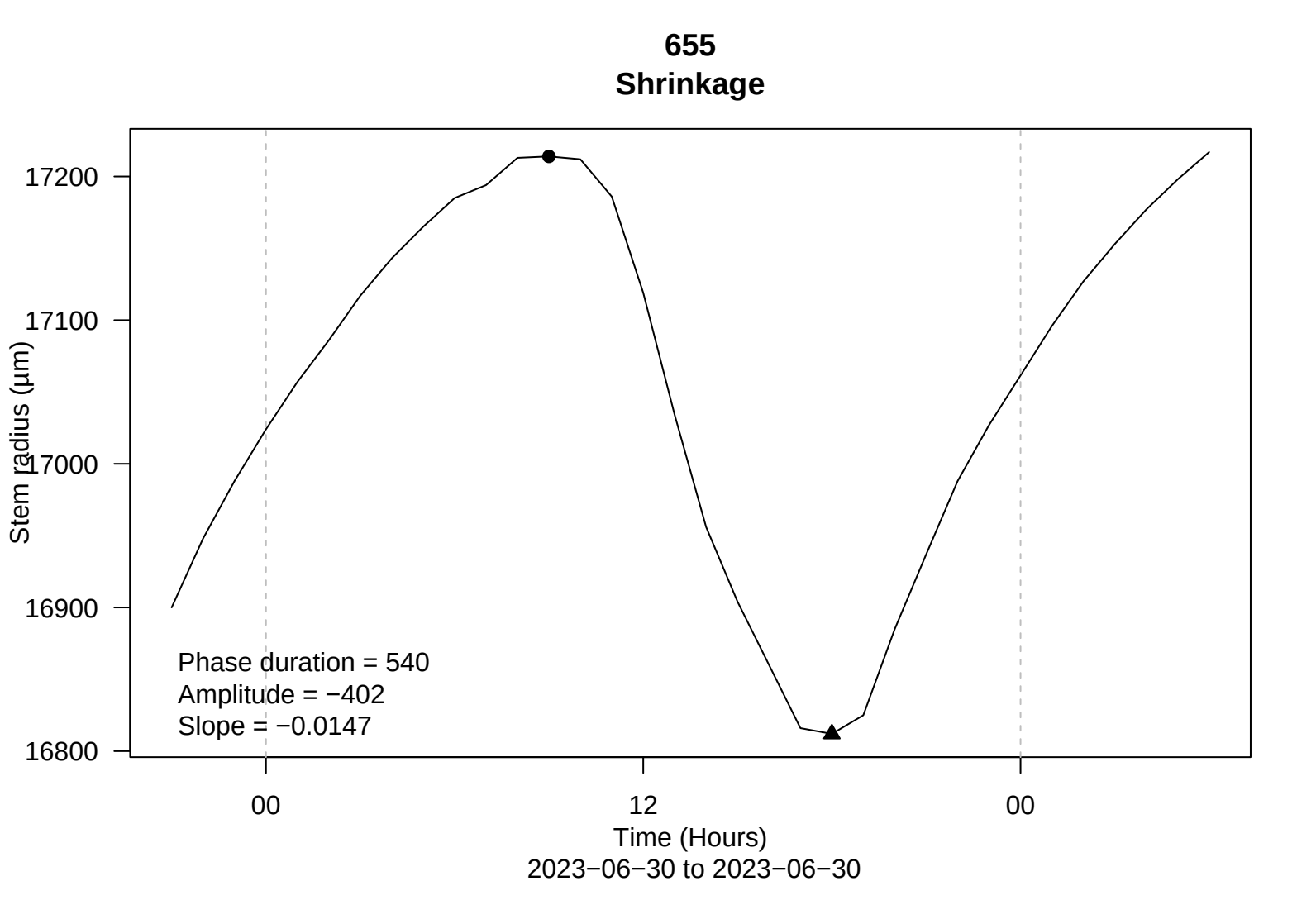

655
Expansion
17100
17050
17000
16950
16900
16850
16800
16750
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−27 to 2023−06−28
Phase duration = 900
Amplitude = 347
Slope = 0.0071

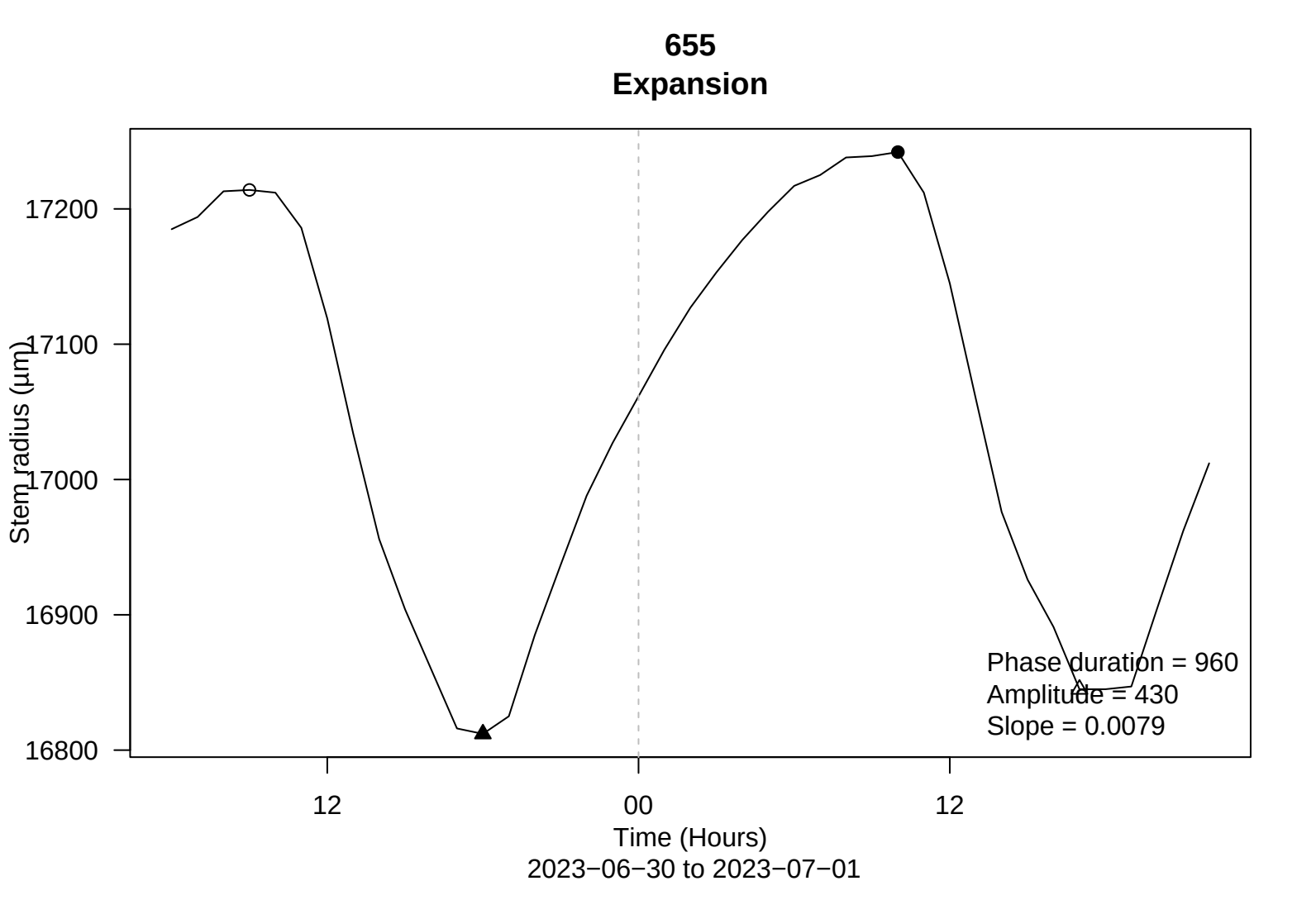

655
Shrinkage
17150
17100
17050
17000
16950
16900
16850
16800
Stem radius (µm)
Phase duration = 540
Amplitude = −312
Slope = −0.0117
00
12
00
Time (Hours)
2023−06−28 to 2023−06−28

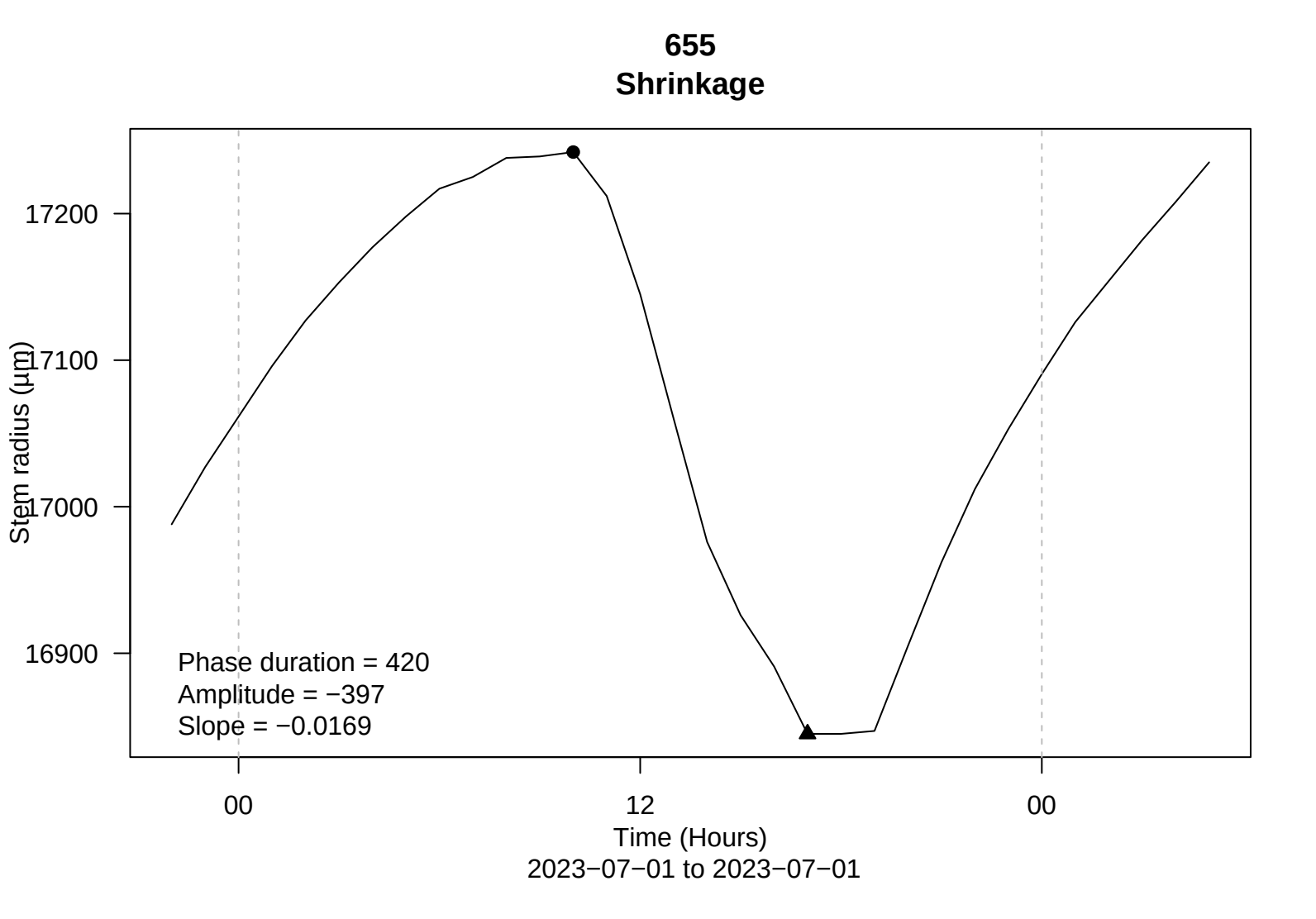

655
Expansion
17200
17100
17000
16900
16800
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−28 to 2023−06−29
Phase duration = 840
Amplitude = 406
Slope = 0.0083

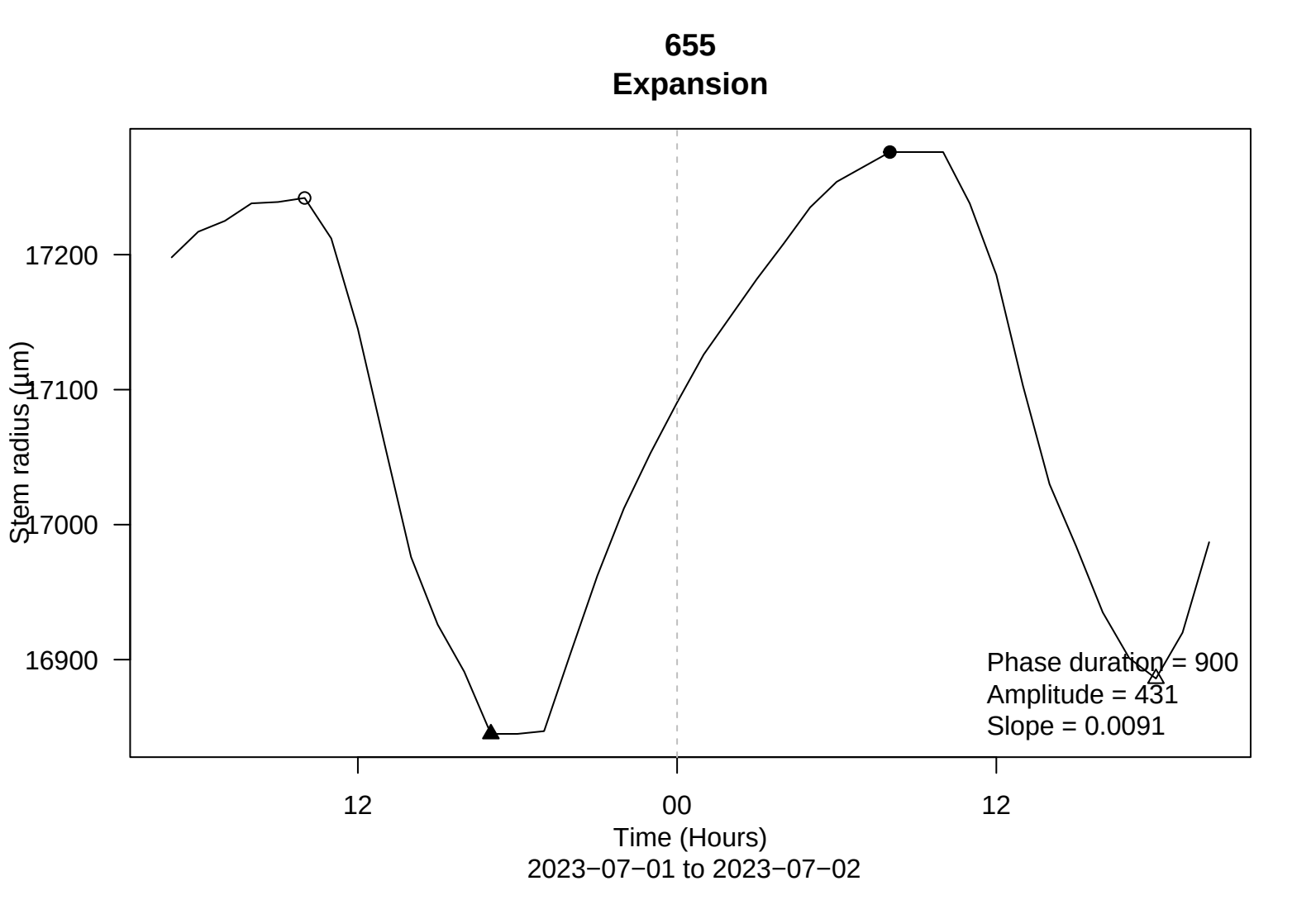

655
Shrinkage
17200
17100
17000
16900
16800
Stem radius (µm)
Phase duration = 600
Amplitude = −402
Slope = −0.0136
00
12
00
Time (Hours)
2023−06−29 to 2023−06−29

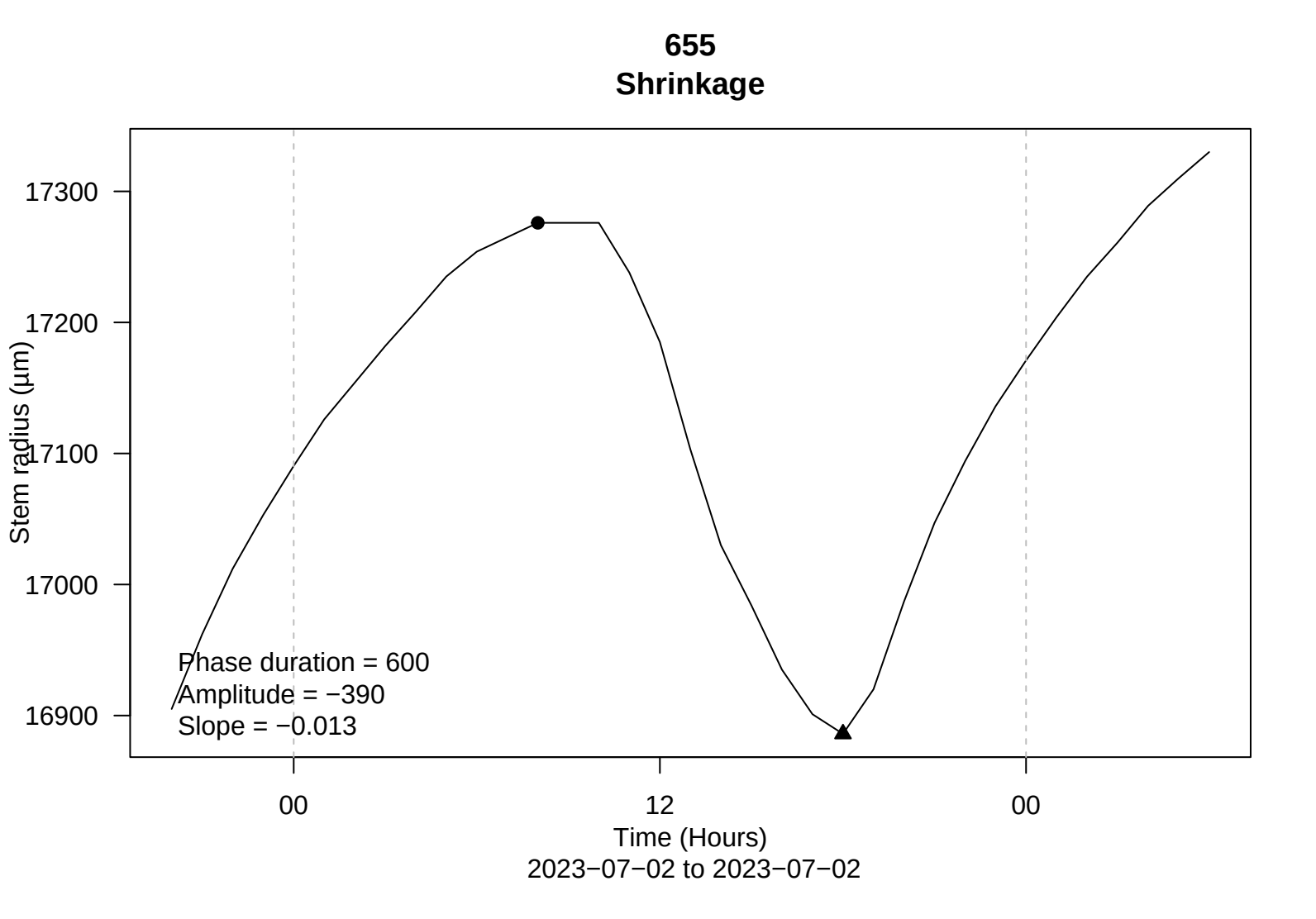

655
Expansion
17200
17100
17000
16900
16800
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−29 to 2023−06−30
Phase duration = 900
Amplitude = 425
Slope = 0.0085

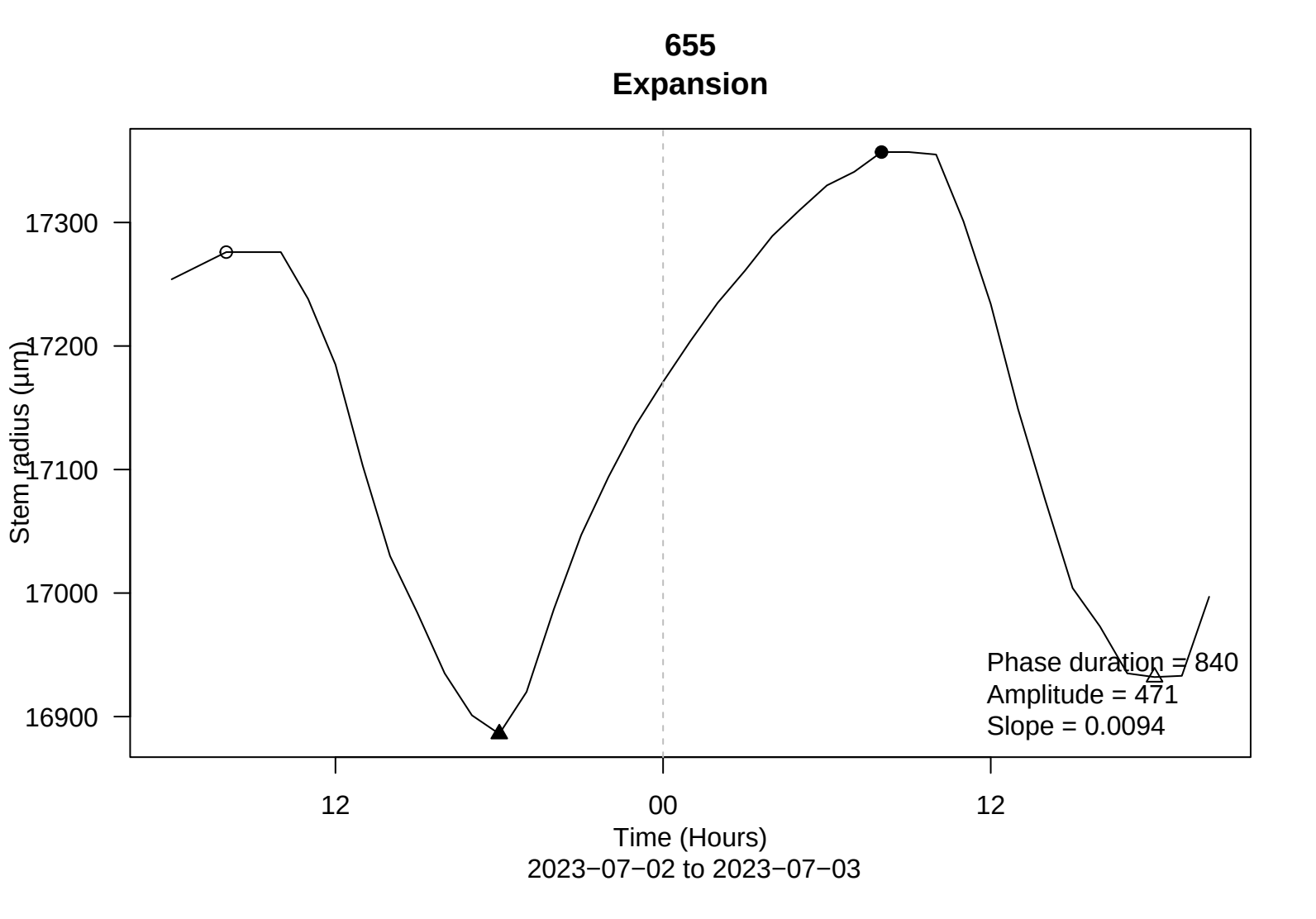

655
Shrinkage
17200
17100
17000
16900
16800
Stem radius (µm)
Phase duration = 540
Amplitude = −402
Slope = −0.0147
00
12
00
Time (Hours)
2023−06−30 to 2023−06−30

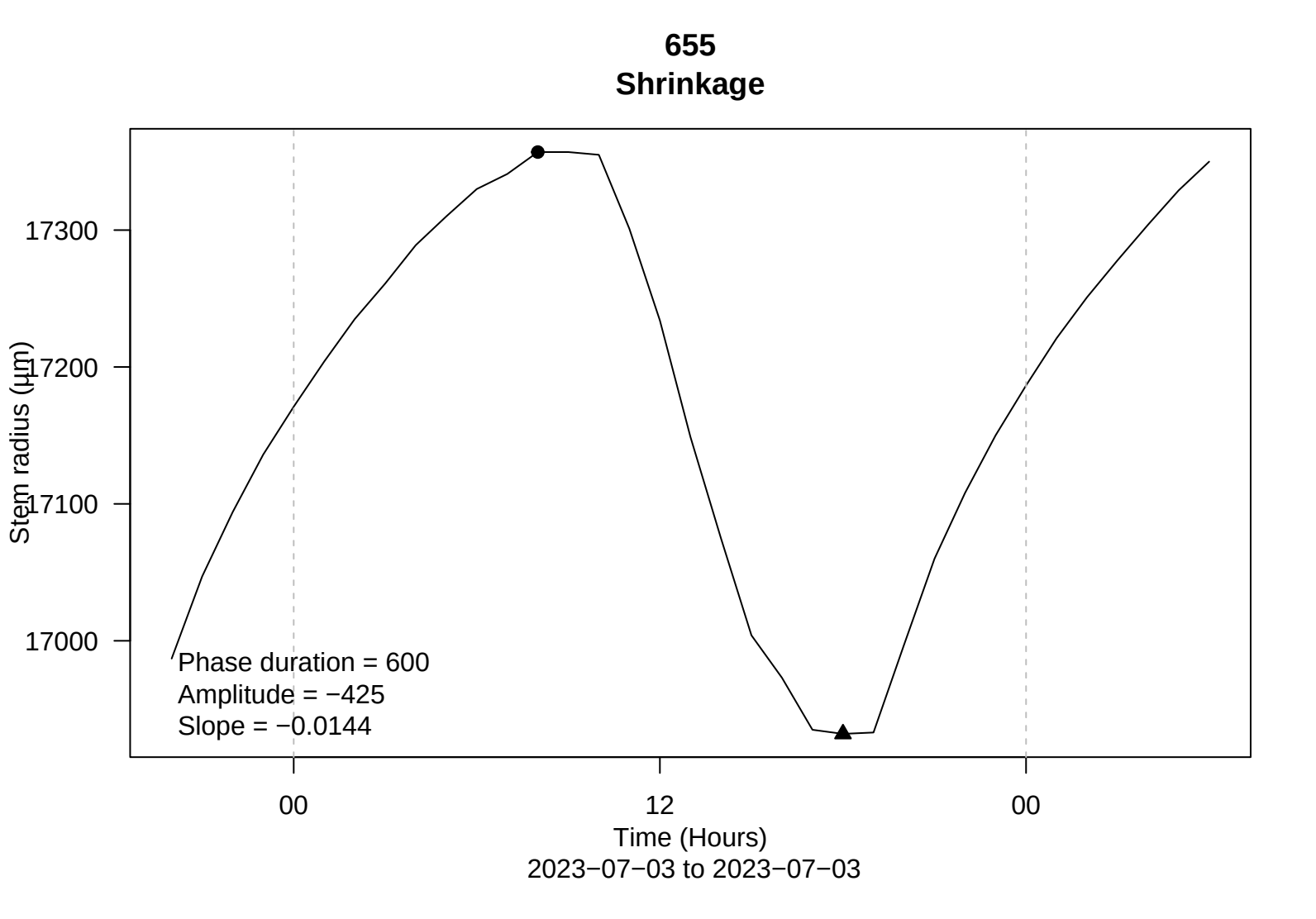

655
Expansion
17200
17100
17000
16900
16800
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−30 to 2023−07−01
Phase duration = 960
Amplitude = 430
Slope = 0.0079

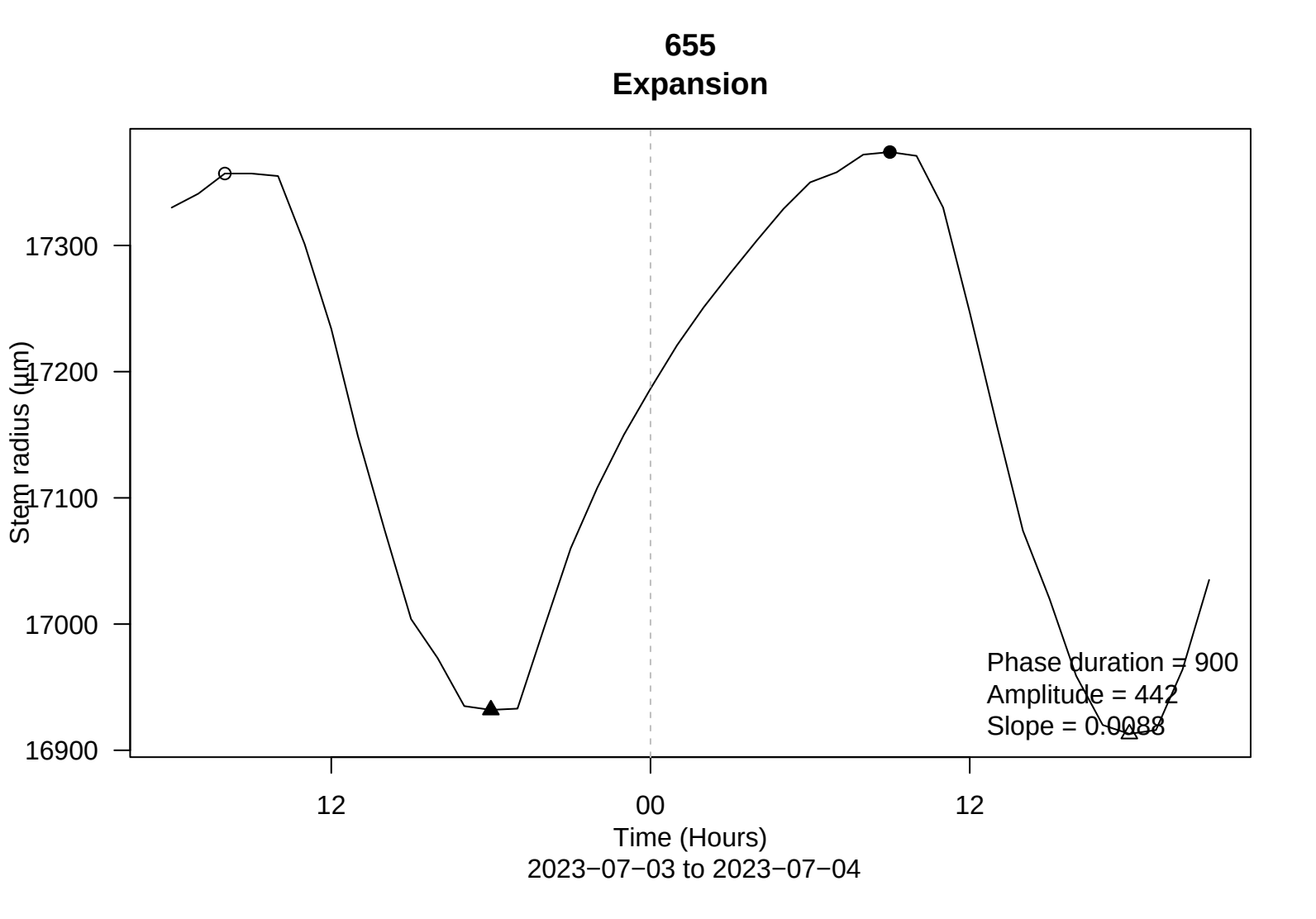

655
Shrinkage
17200
17100
17000
16900
Stem radius (µm)
Phase duration = 420
Amplitude = −397
Slope = −0.0169
00
12
00
Time (Hours)
2023−07−01 to 2023−07−01

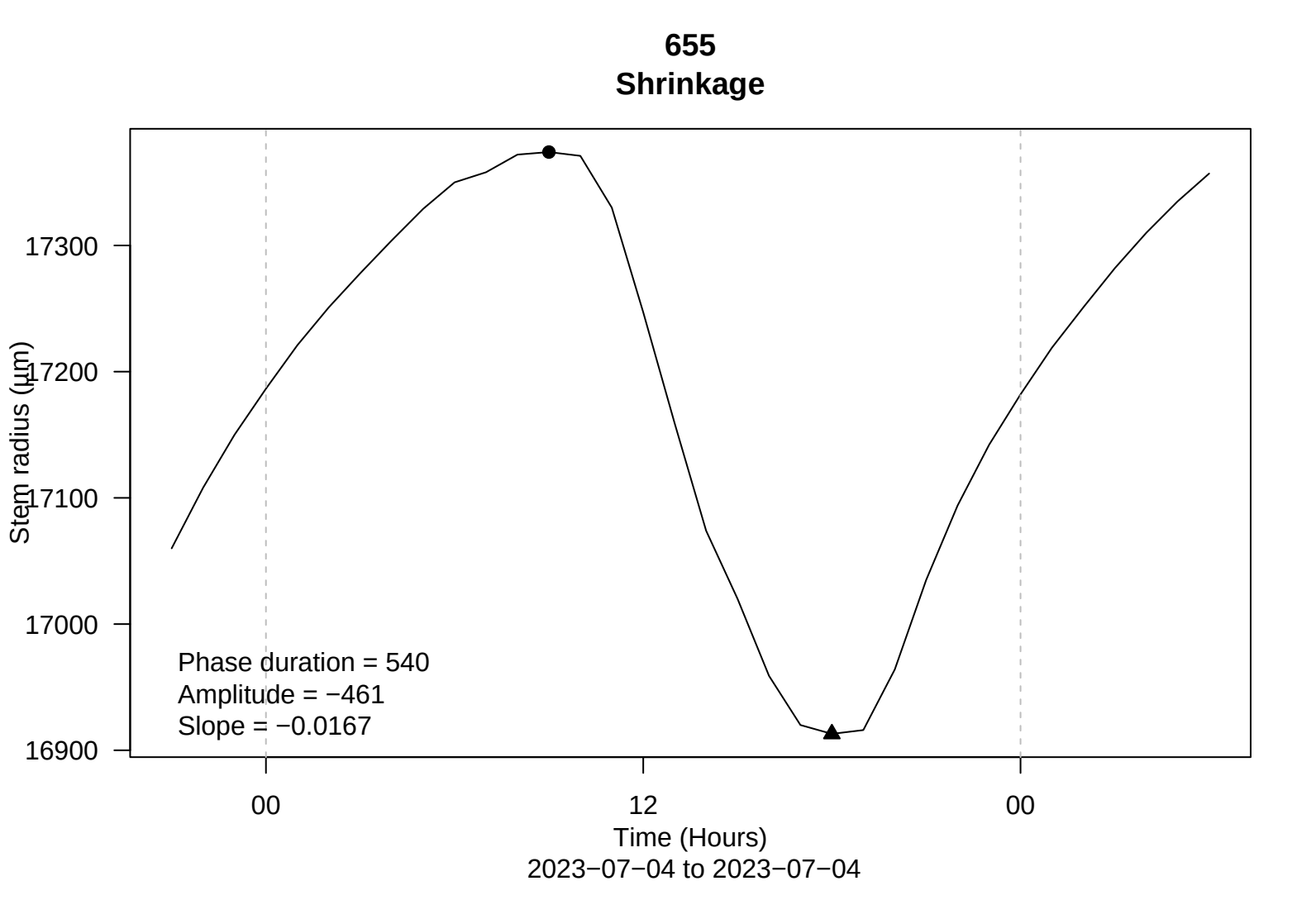

655
Expansion
17200
17100
17000
16900
Stem radius (µm)
Phase duration = 900
Amplitude = 431
Slope = 0.0091
12
00
12
Time (Hours)
2023−07−01 to 2023−07−02

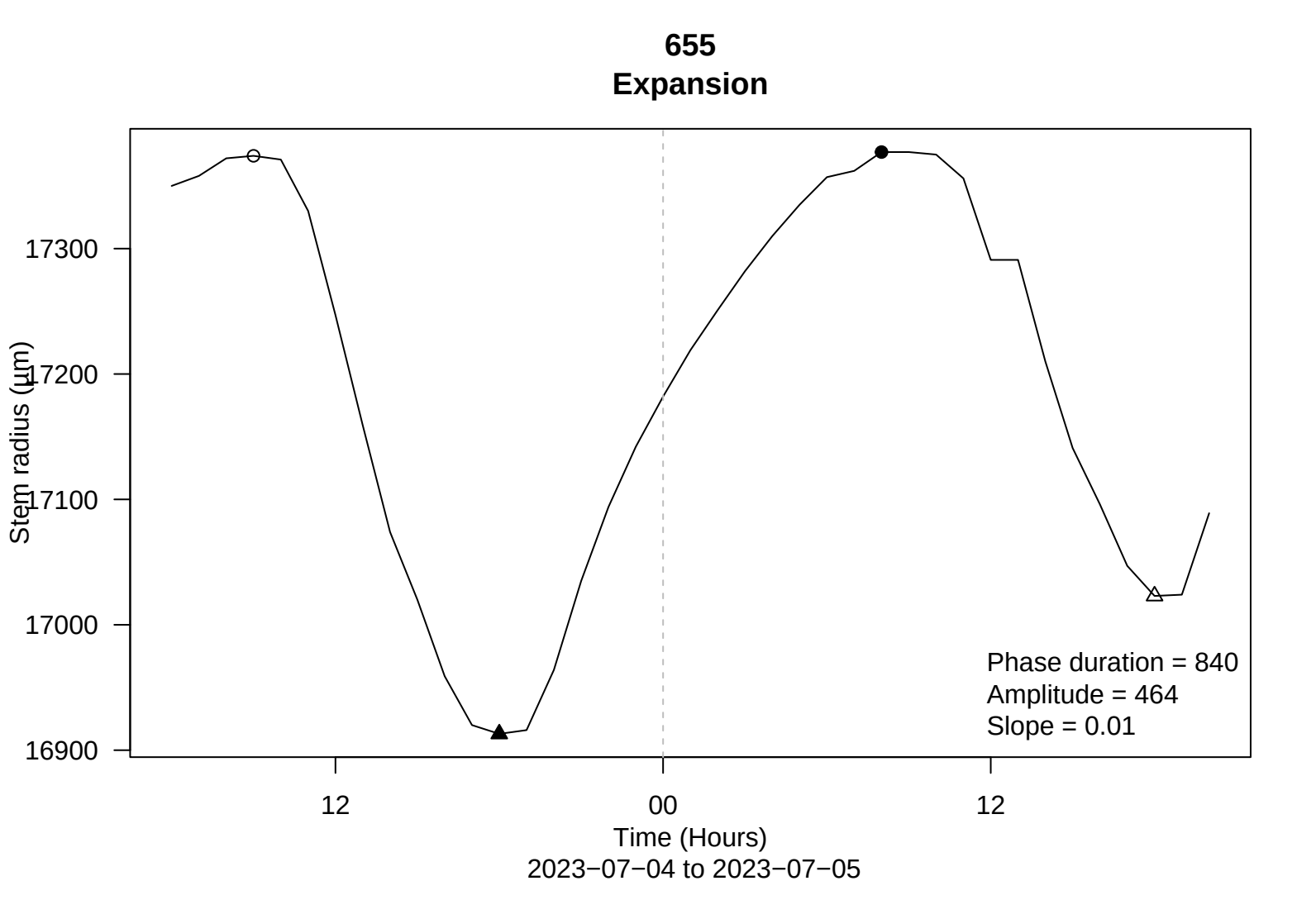

655
Shrinkage
17300
17200
17100
17000
16900
Stem radius (µm)
Phase duration = 600
Amplitude = −390
Slope = −0.013
00
12
00
Time (Hours)
2023−07−02 to 2023−07−02

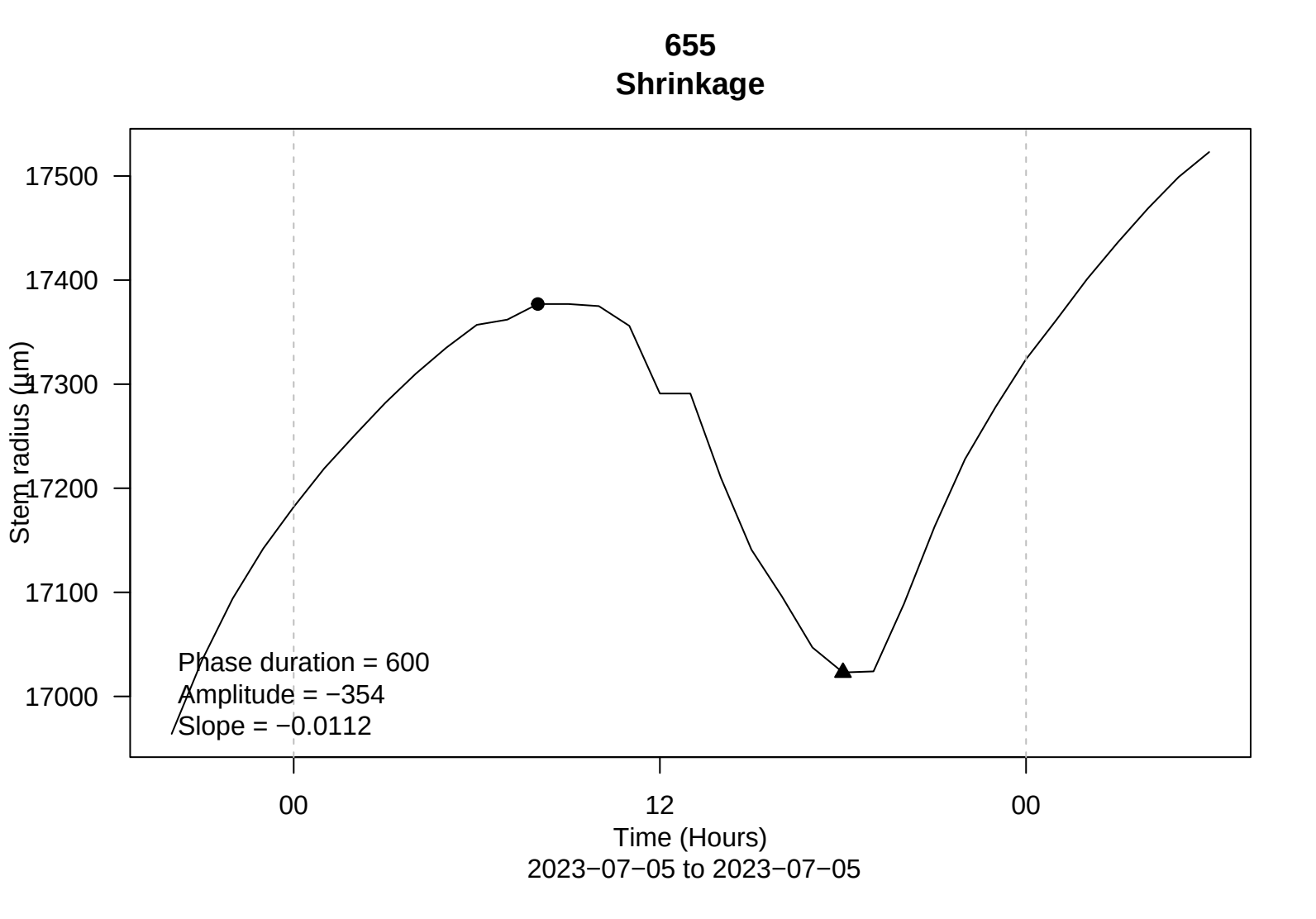

655
Expansion
17300
17200
17100
17000
16900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−02 to 2023−07−03
Phase duration = 840
Amplitude = 471
Slope = 0.0094

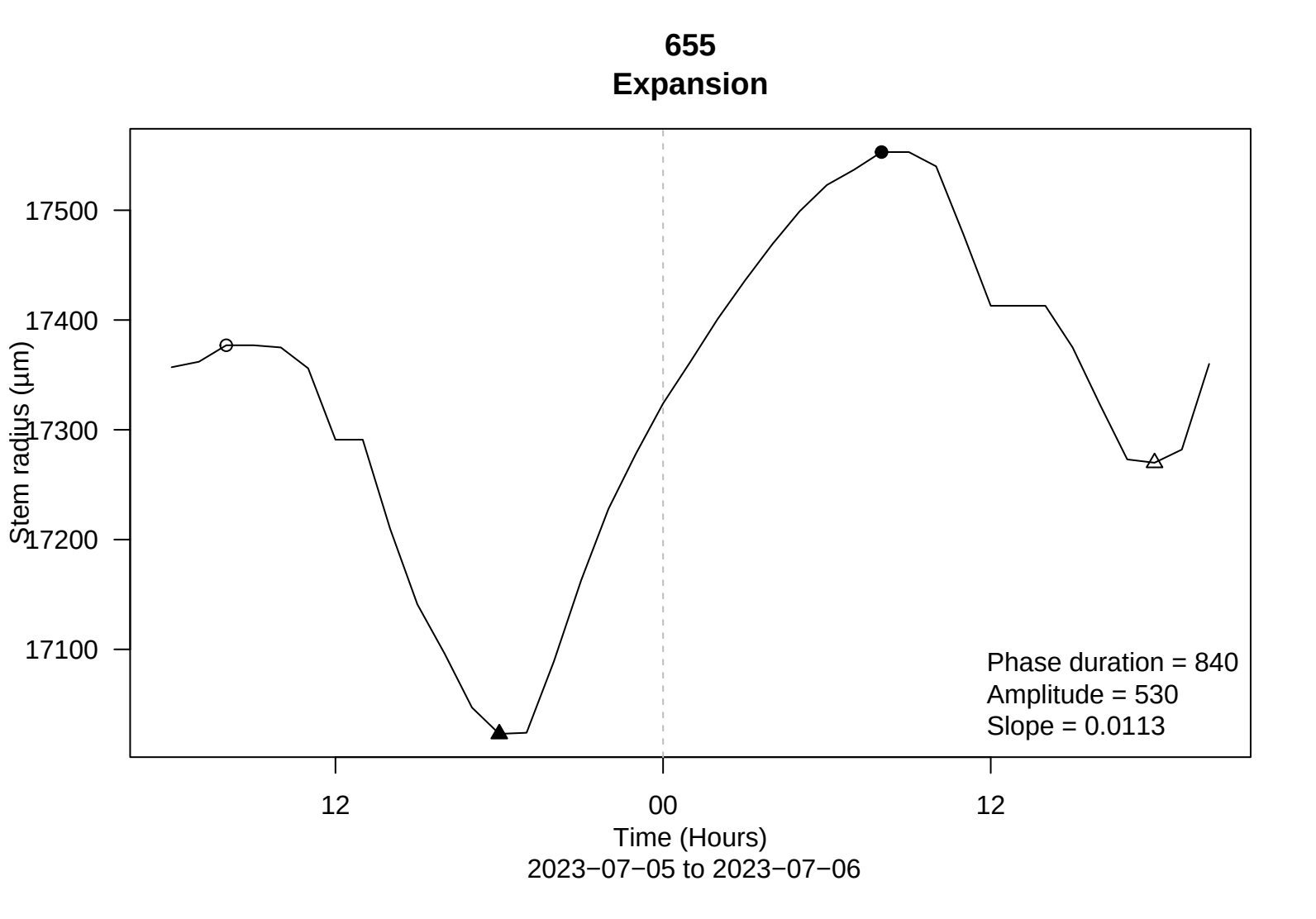

655
Shrinkage
17300
17200
17100
17000
Stem radius (µm)
Phase duration = 600
Amplitude = −425
Slope = −0.0144
00
12
00
Time (Hours)
2023−07−03 to 2023−07−03

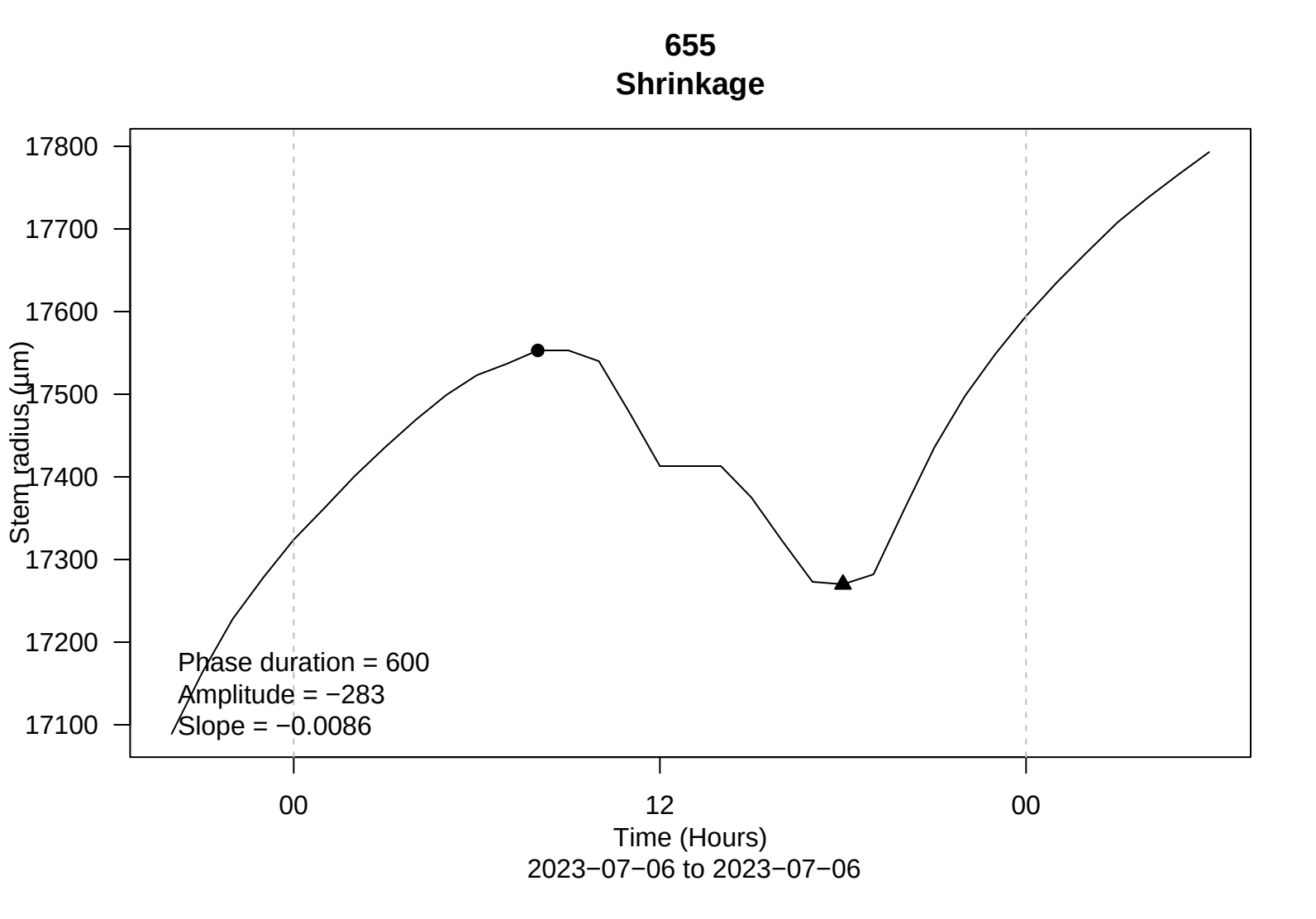

655
Expansion
17300
17200
17100
17000
16900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−03 to 2023−07−04
Phase duration = 900
Amplitude = 442
Slope = 0.0088

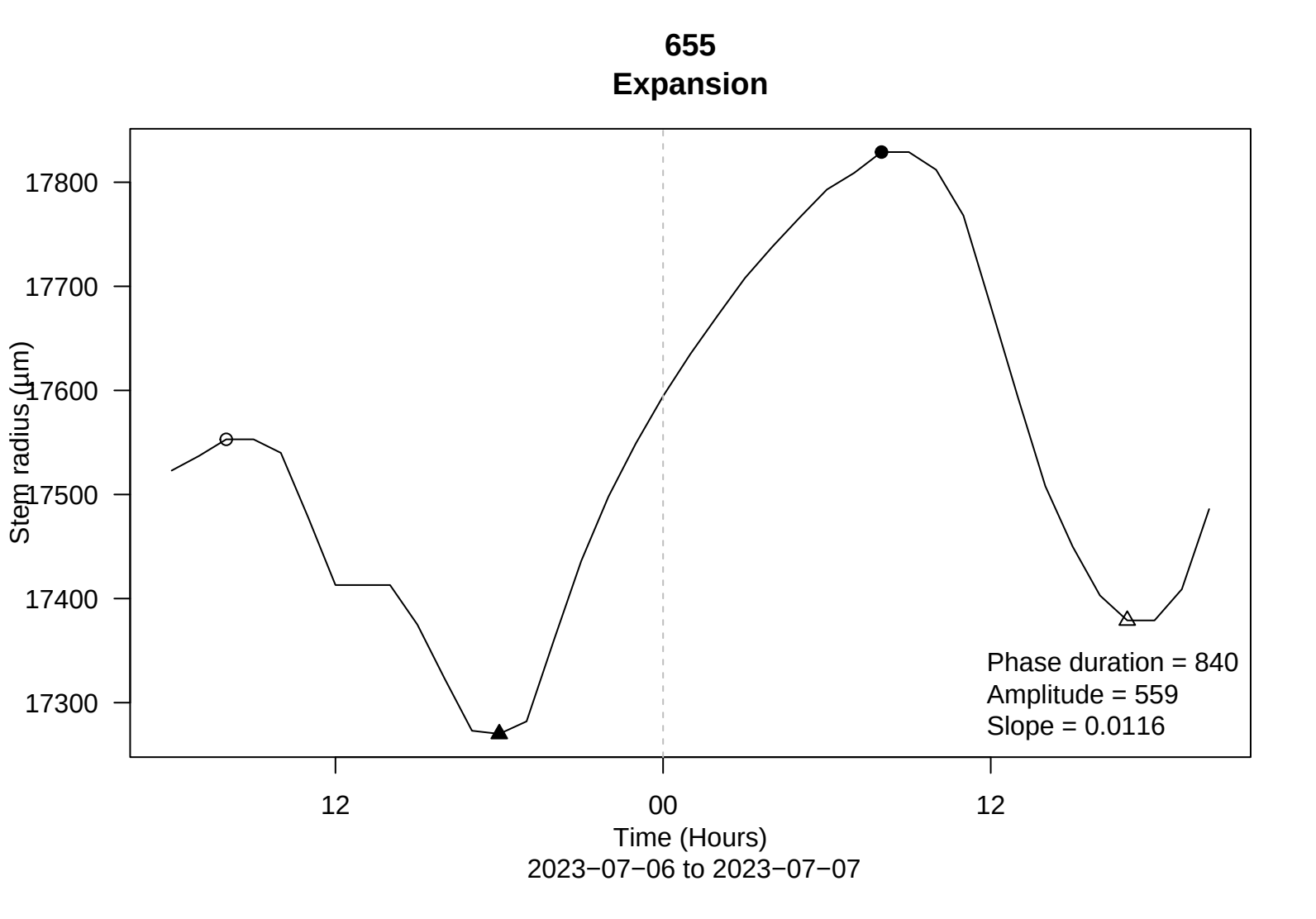

655
Shrinkage
17300
17200
17100
17000
16900
Stem radius (µm)
Phase duration = 540
Amplitude = −461
Slope = −0.0167
00
12
00
Time (Hours)
2023−07−04 to 2023−07−04

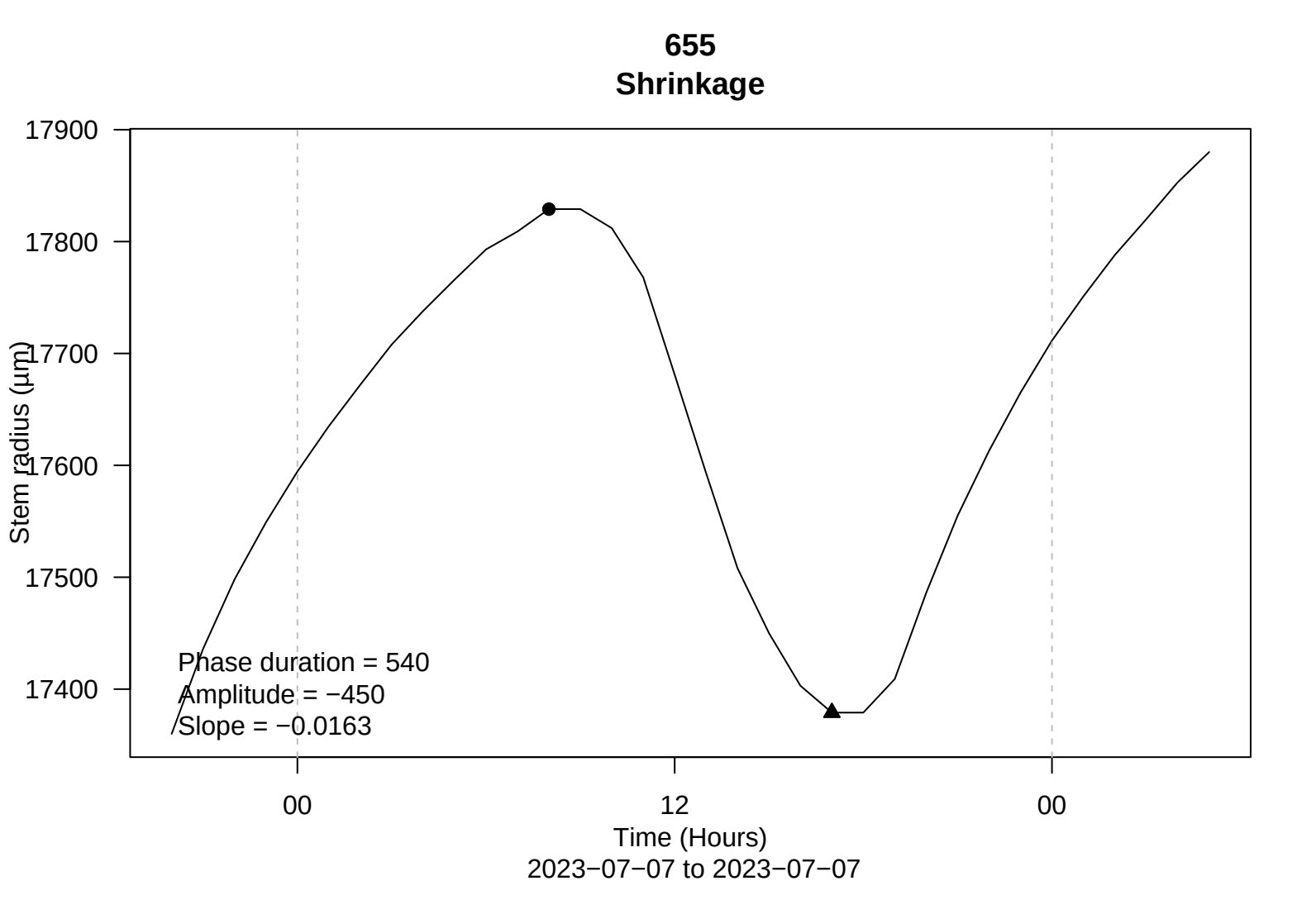

655
Expansion
17300
17200
17100
17000
16900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−04 to 2023−07−05
Phase duration = 840
Amplitude = 464
Slope = 0.01

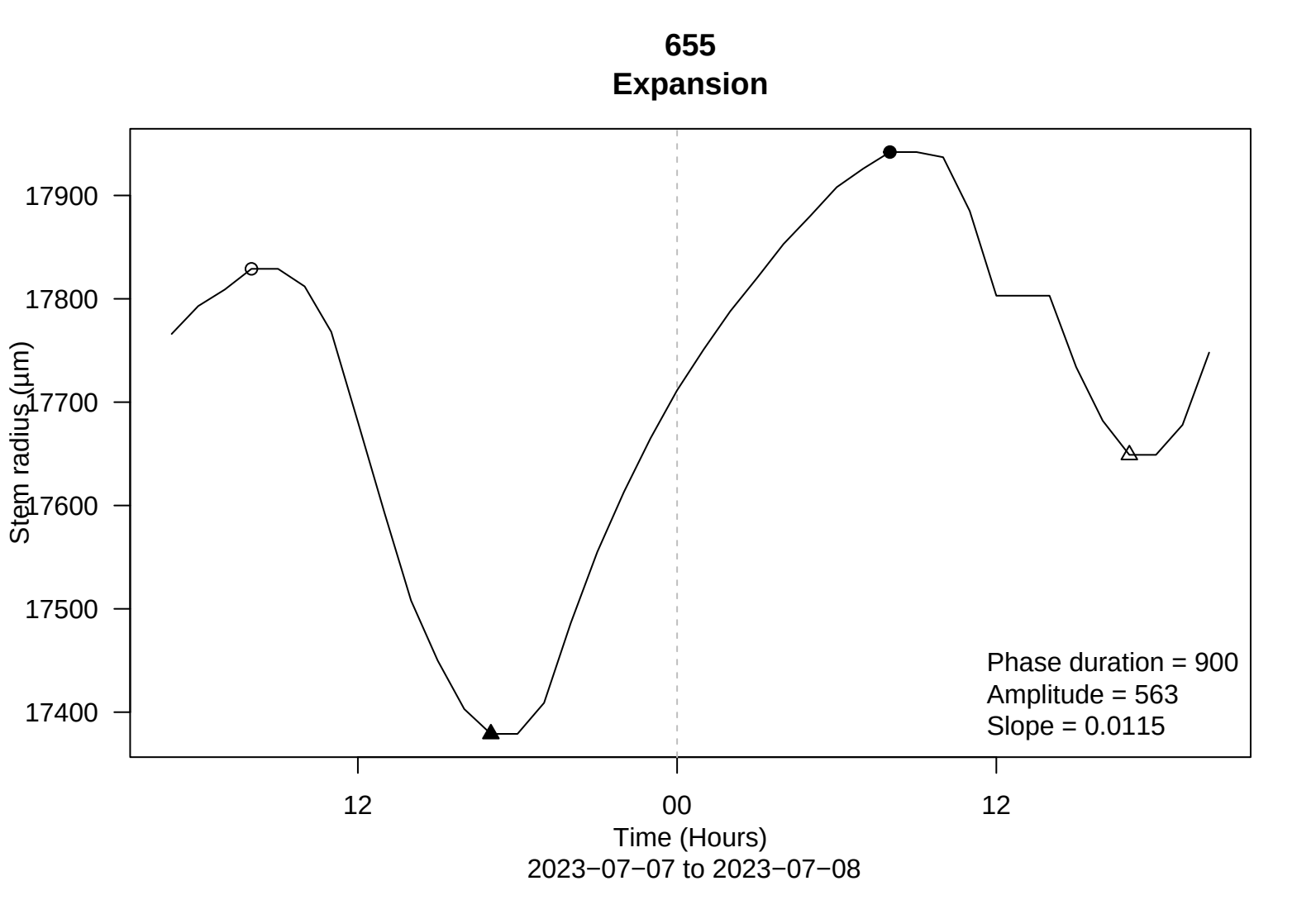

655
Shrinkage
17500
17400
17300
17200
17100
17000
Stem radius (µm)
Phase duration = 600
Amplitude = −354
Slope = −0.0112
00
12
00
Time (Hours)
2023−07−05 to 2023−07−05

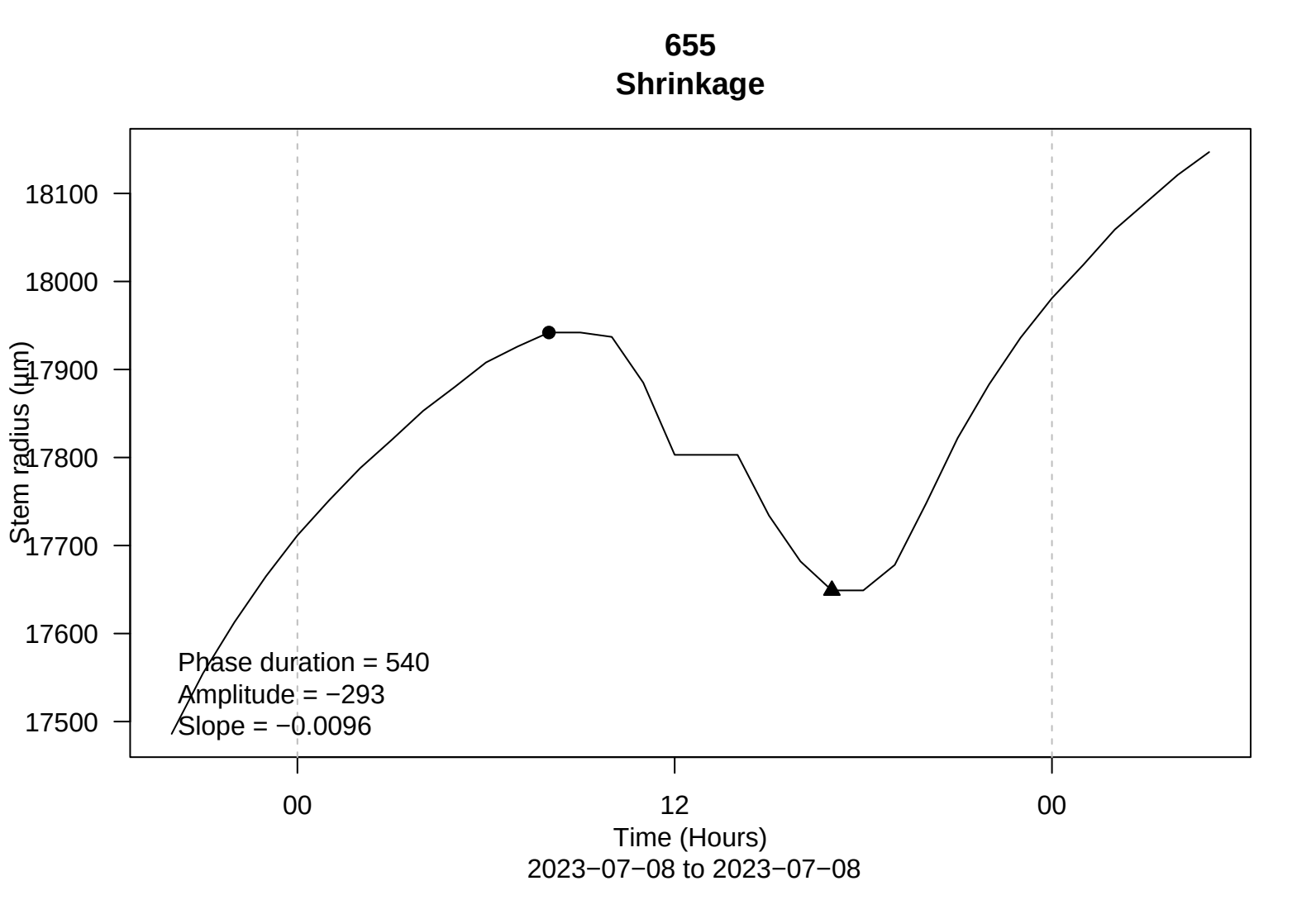

655
Expansion
17500
17400
17300
17200
17100
Stem radius (µm)
Phase duration = 840
Amplitude = 530
Slope = 0.0113
12
00
12
Time (Hours)
2023−07−05 to 2023−07−06

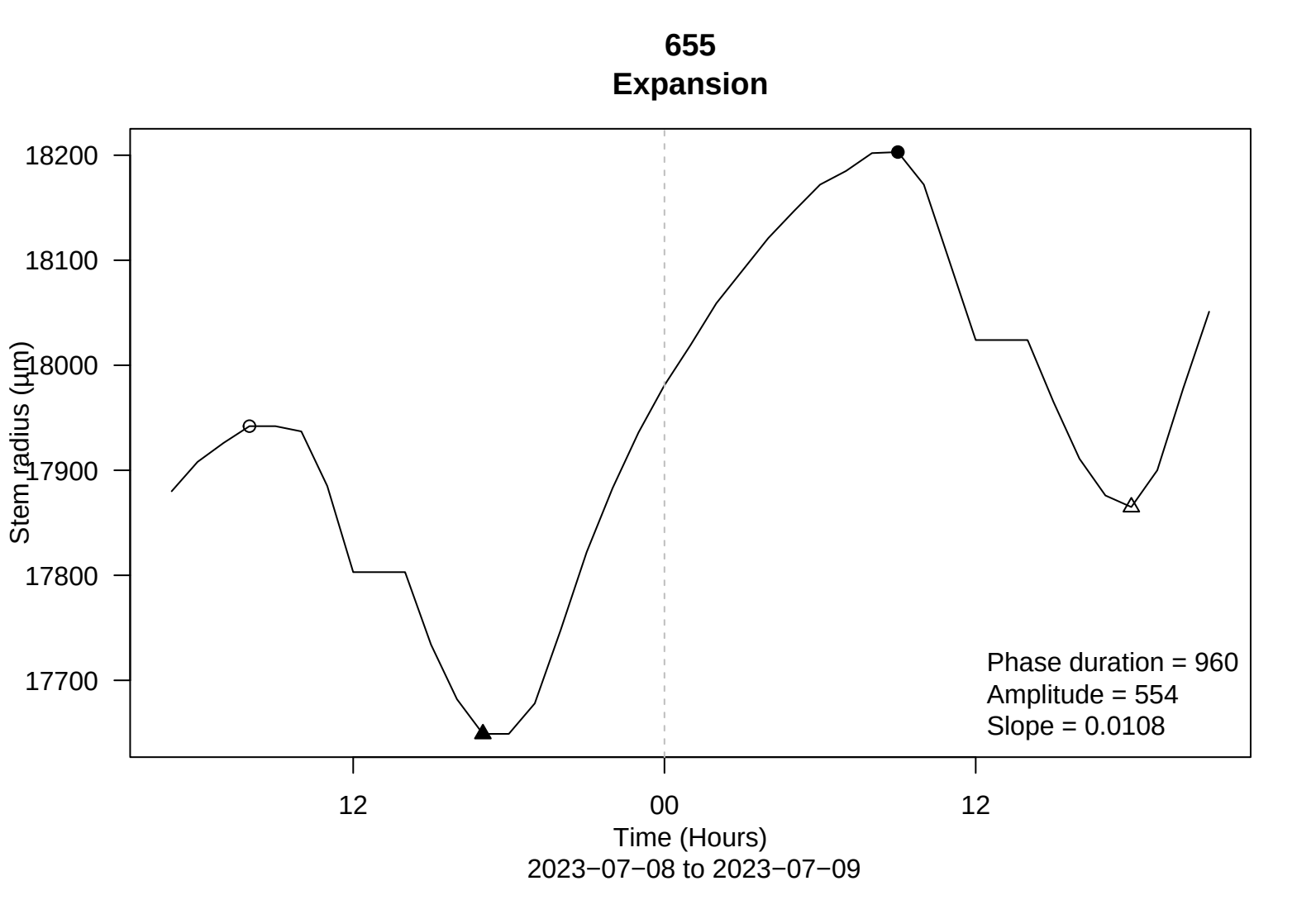

655
Shrinkage
17800
17700
17600
17500
17400
17300
17200
17100
Stem radius (µm)
Phase duration = 600
Amplitude = −283
Slope = −0.0086
00
12
00
Time (Hours)
2023−07−06 to 2023−07−06

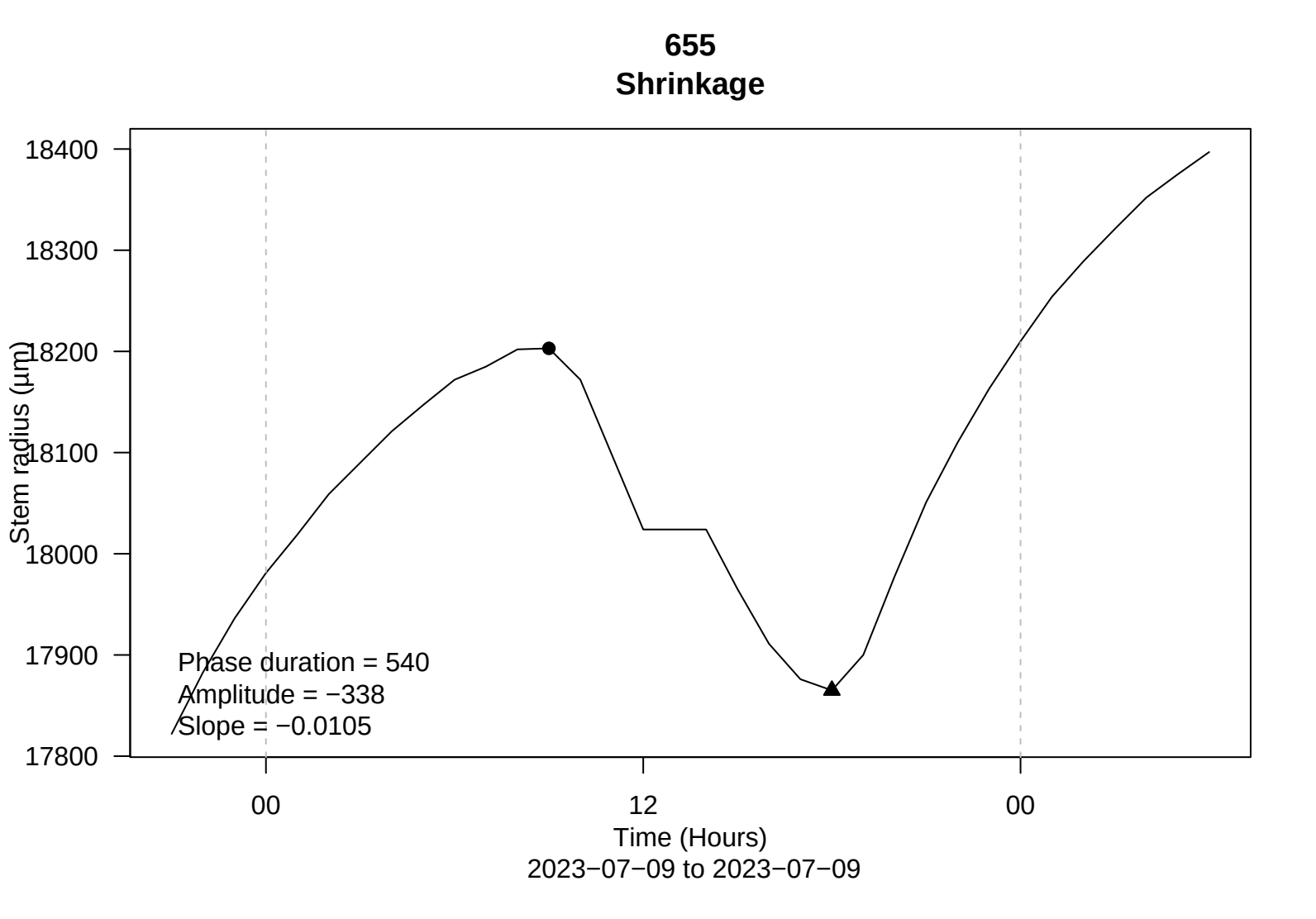

655
Expansion
17800
17700
17600
17500
17400
17300
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−06 to 2023−07−07
Phase duration = 840
Amplitude = 559
Slope = 0.0116

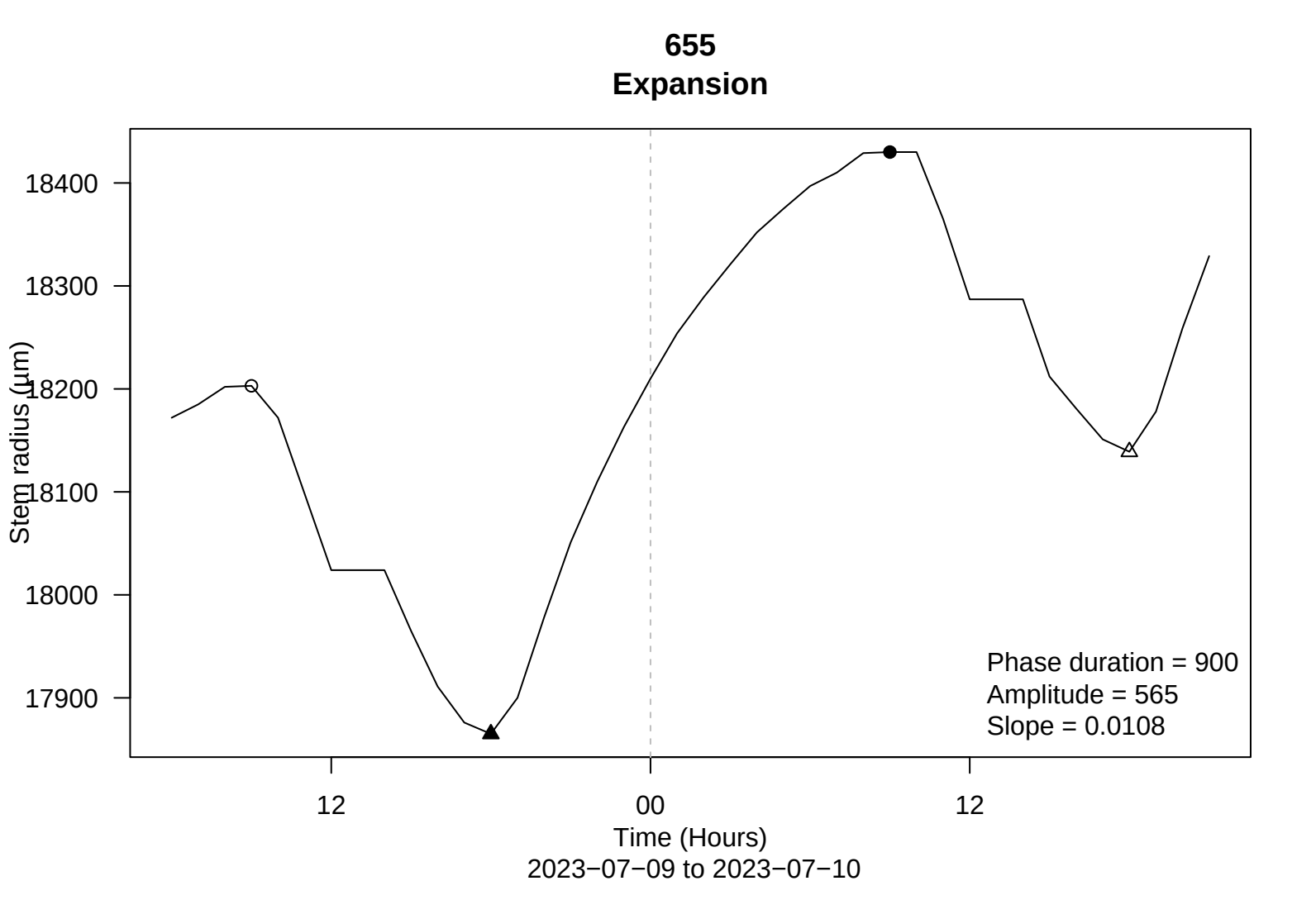

655
Shrinkage
17900
17800
17700
17600
17500
17400
Stem radius (µm)
Phase duration = 540
Amplitude = −450
Slope = −0.0163
00
12
00
Time (Hours)
2023−07−07 to 2023−07−07

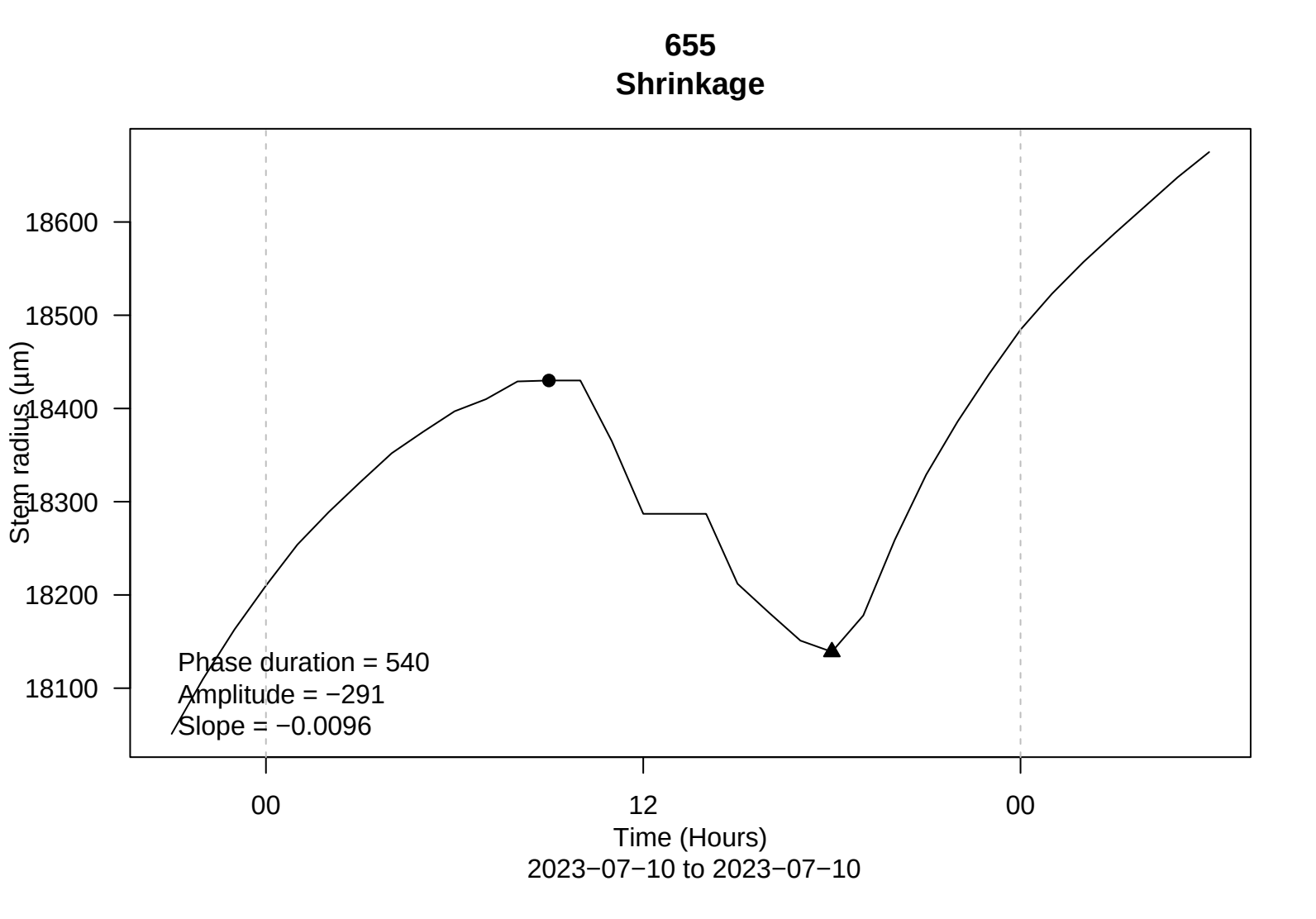

655
Expansion
17900
17800
17700
17600
17500
17400
Stem radius (µm)
Phase duration = 900
Amplitude = 563
Slope = 0.0115
12
00
12
Time (Hours)
2023−07−07 to 2023−07−08

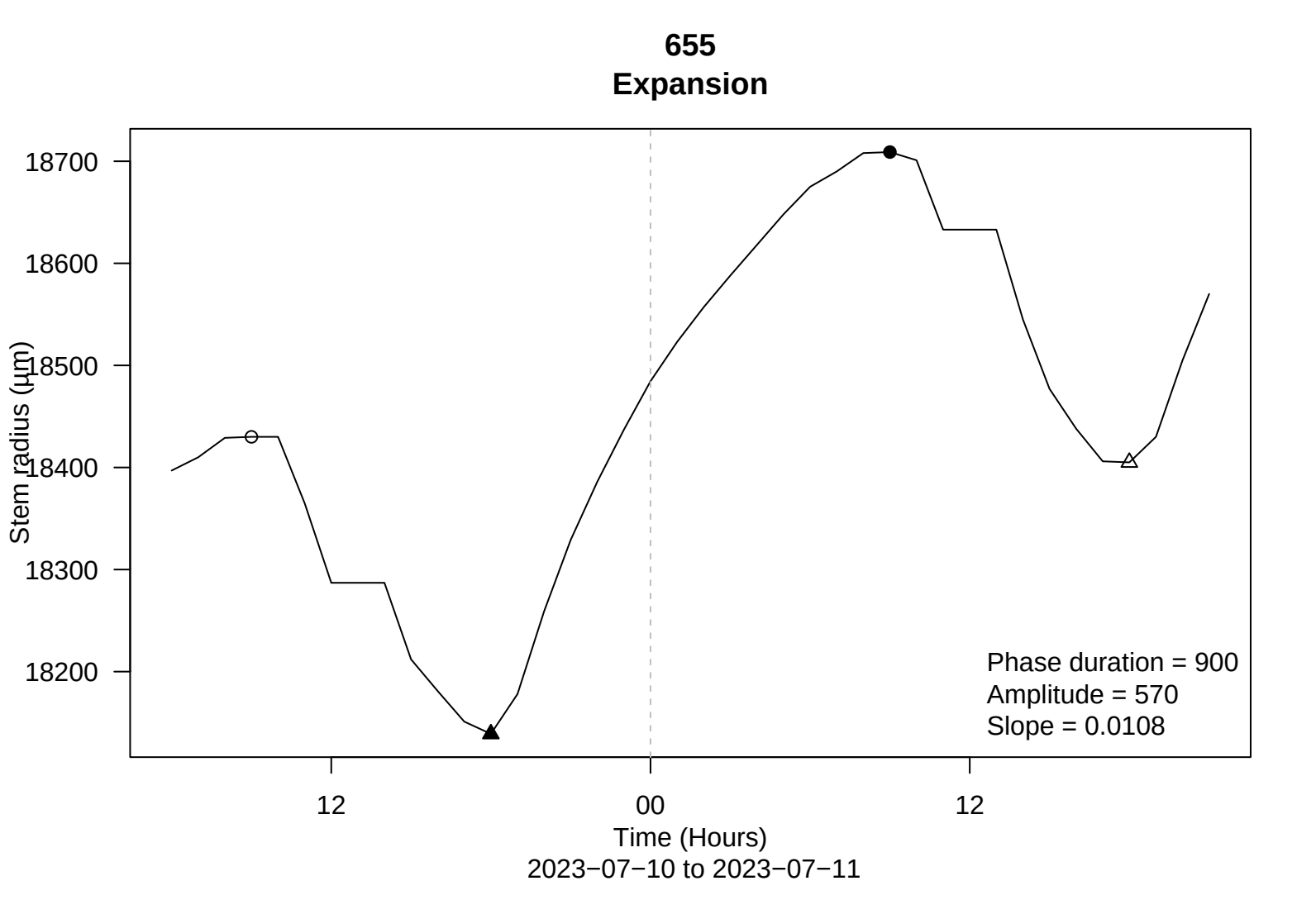

655
Shrinkage
18100
18000
17900
17800
17700
17600
17500
Stem radius (µm)
Phase duration = 540
Amplitude = −293
Slope = −0.0096
00
12
00
Time (Hours)
2023−07−08 to 2023−07−08

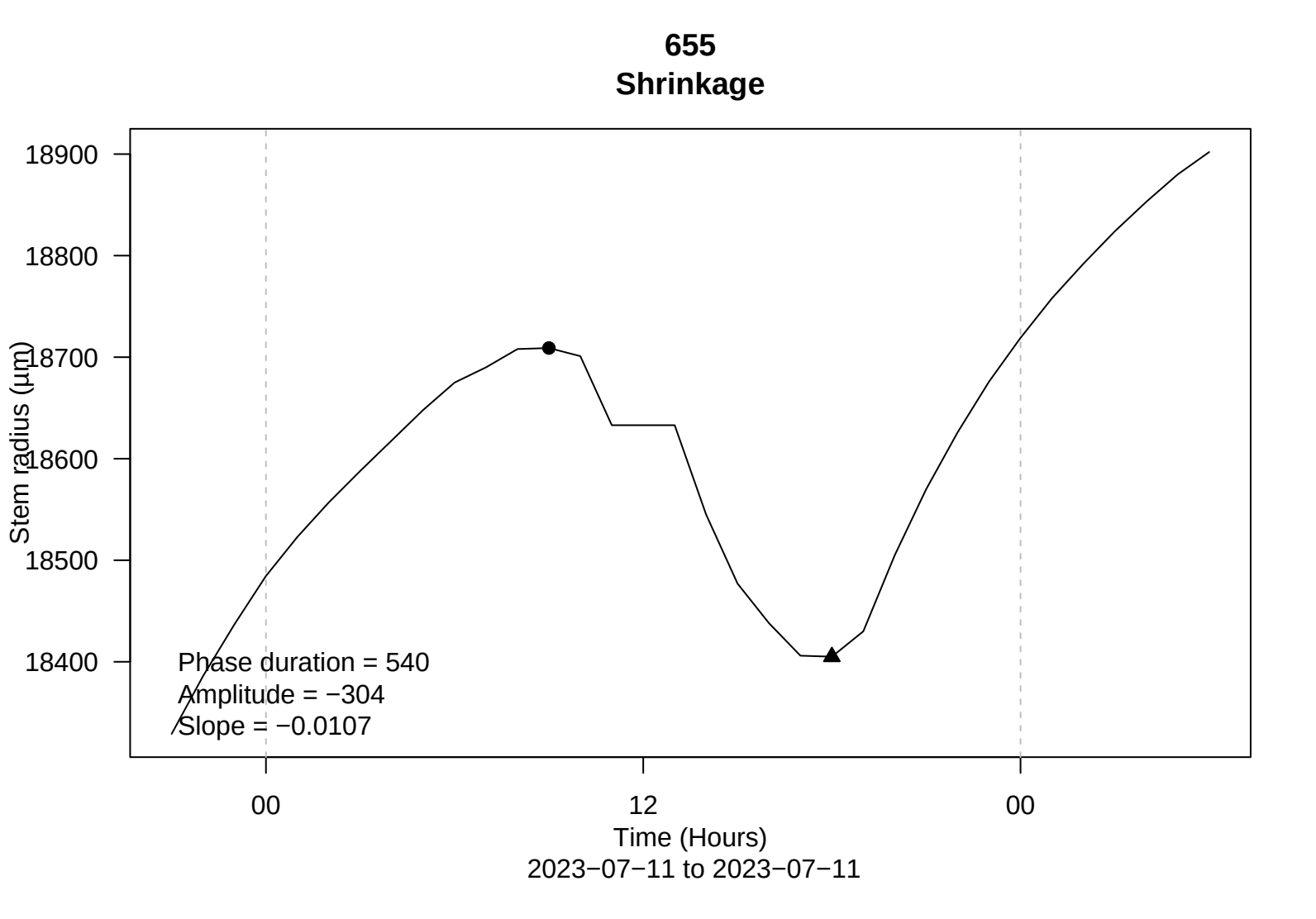

655
Expansion
18200
18100
18000
17900
17800
17700
Stem radius (µm)
Phase duration = 960
Amplitude = 554
Slope = 0.0108
12
00
12
Time (Hours)
2023−07−08 to 2023−07−09

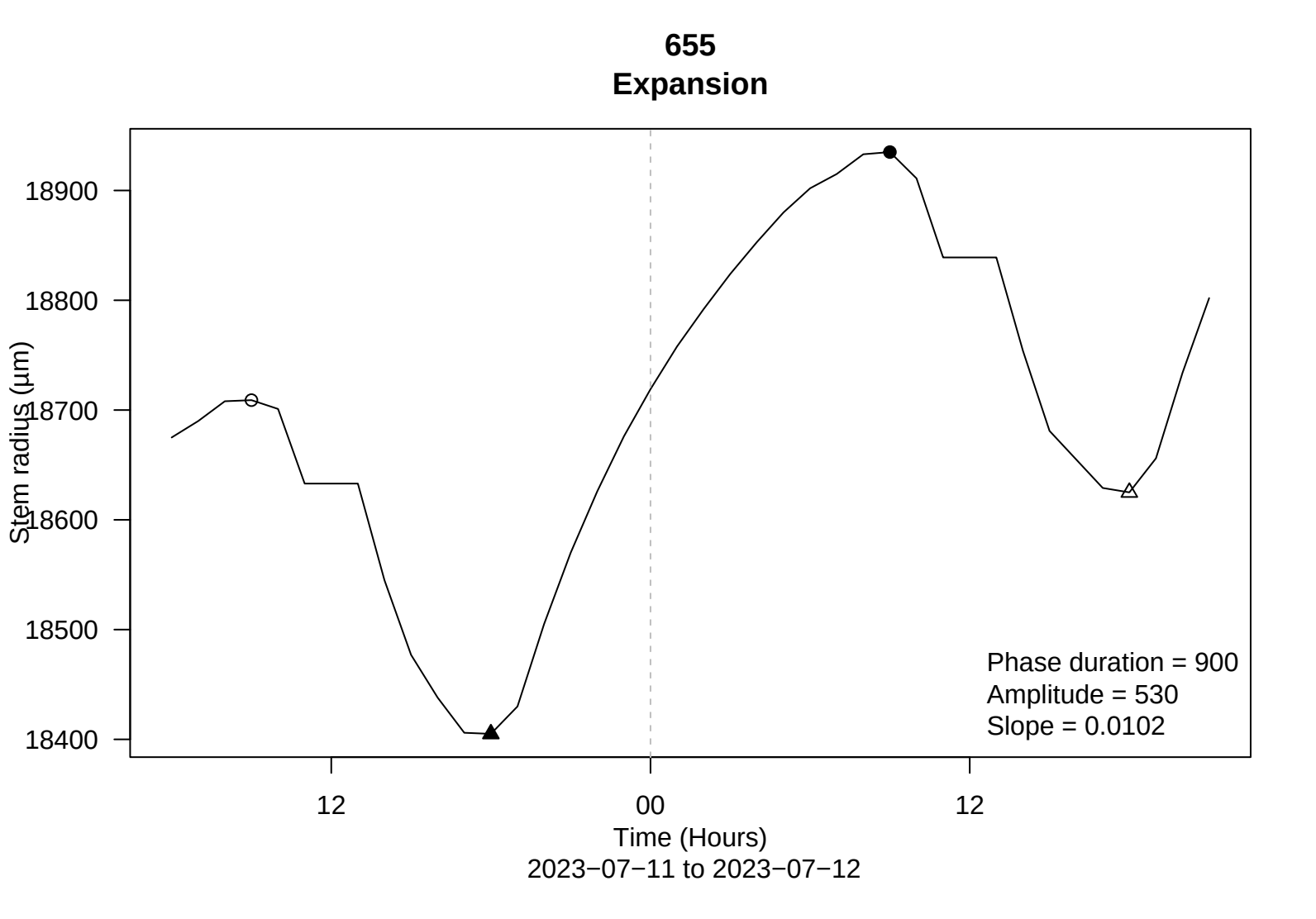

655
Shrinkage
18400
18300
18200
18100
18000
17900
17800
Stem radius (µm)
Phase duration = 540
Amplitude = −338
Slope = −0.0105
00
12
00
Time (Hours)
2023−07−09 to 2023−07−09

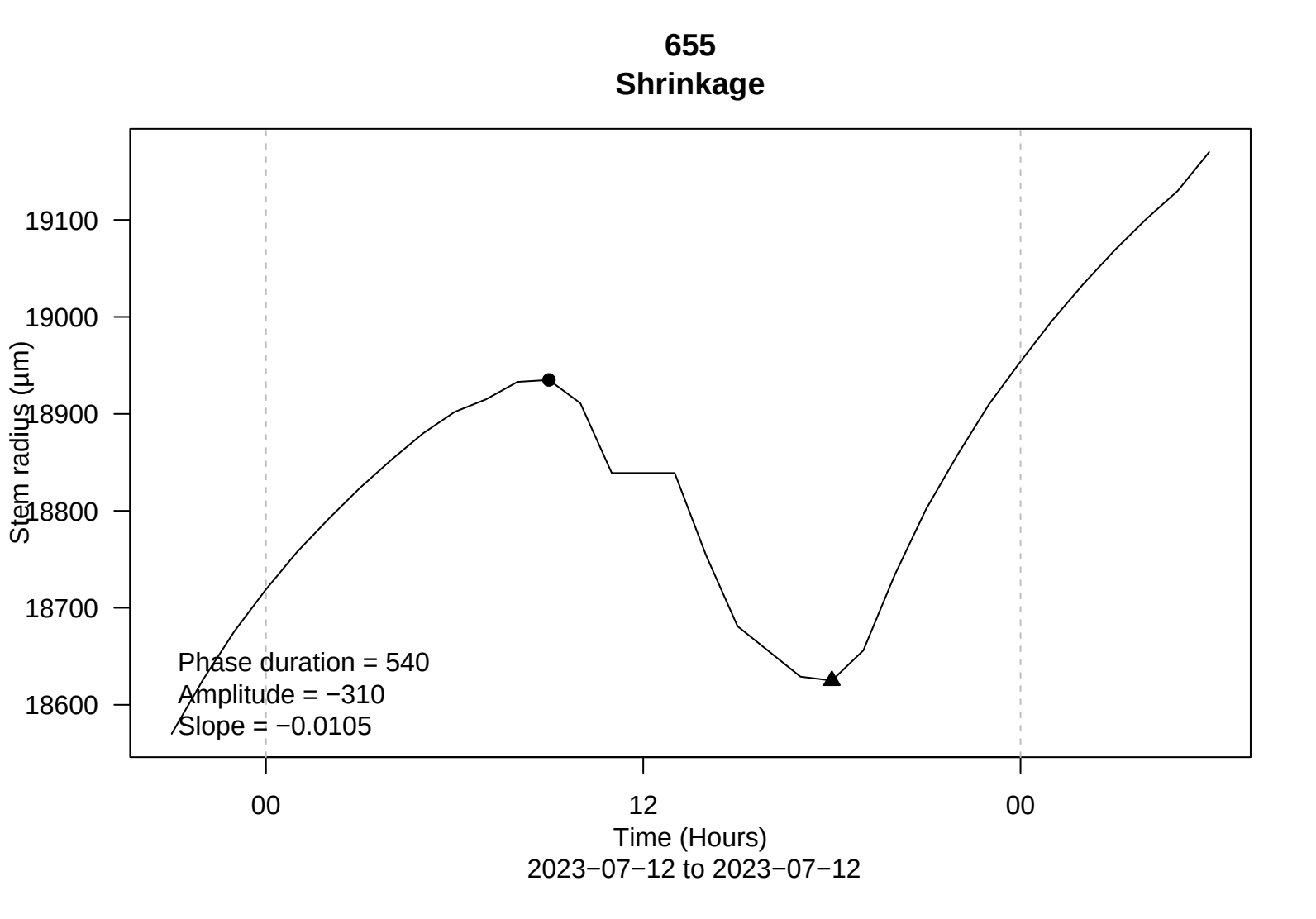

655
Expansion
18400
18300
18200
18100
18000
17900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−09 to 2023−07−10
Phase duration = 900
Amplitude = 565
Slope = 0.0108

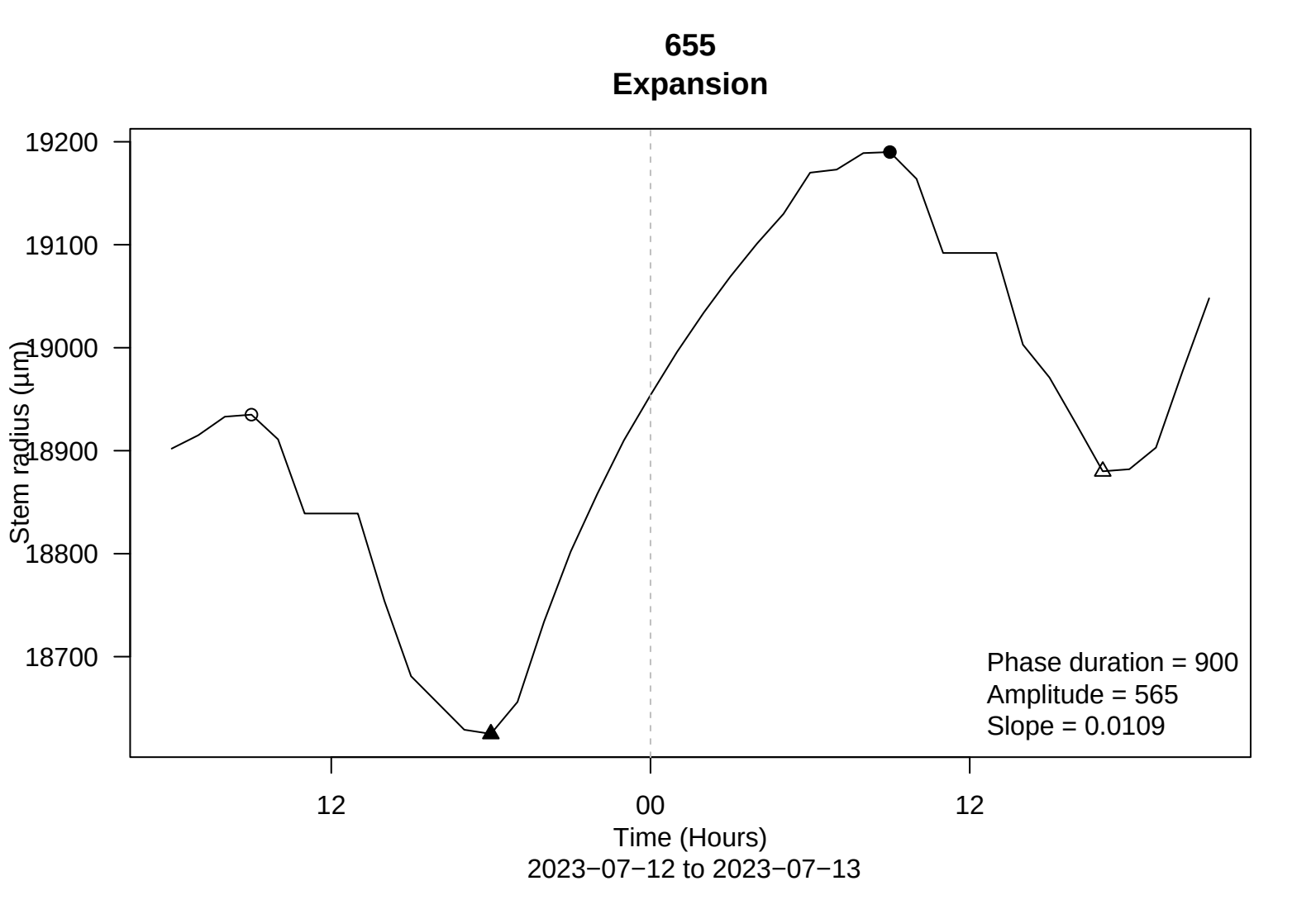

655
Shrinkage
18600
18500
18400
18300
18200
18100
Stem radius (µm)
Phase duration = 540
Amplitude = −291
Slope = −0.0096
00
12
00
Time (Hours)
2023−07−10 to 2023−07−10

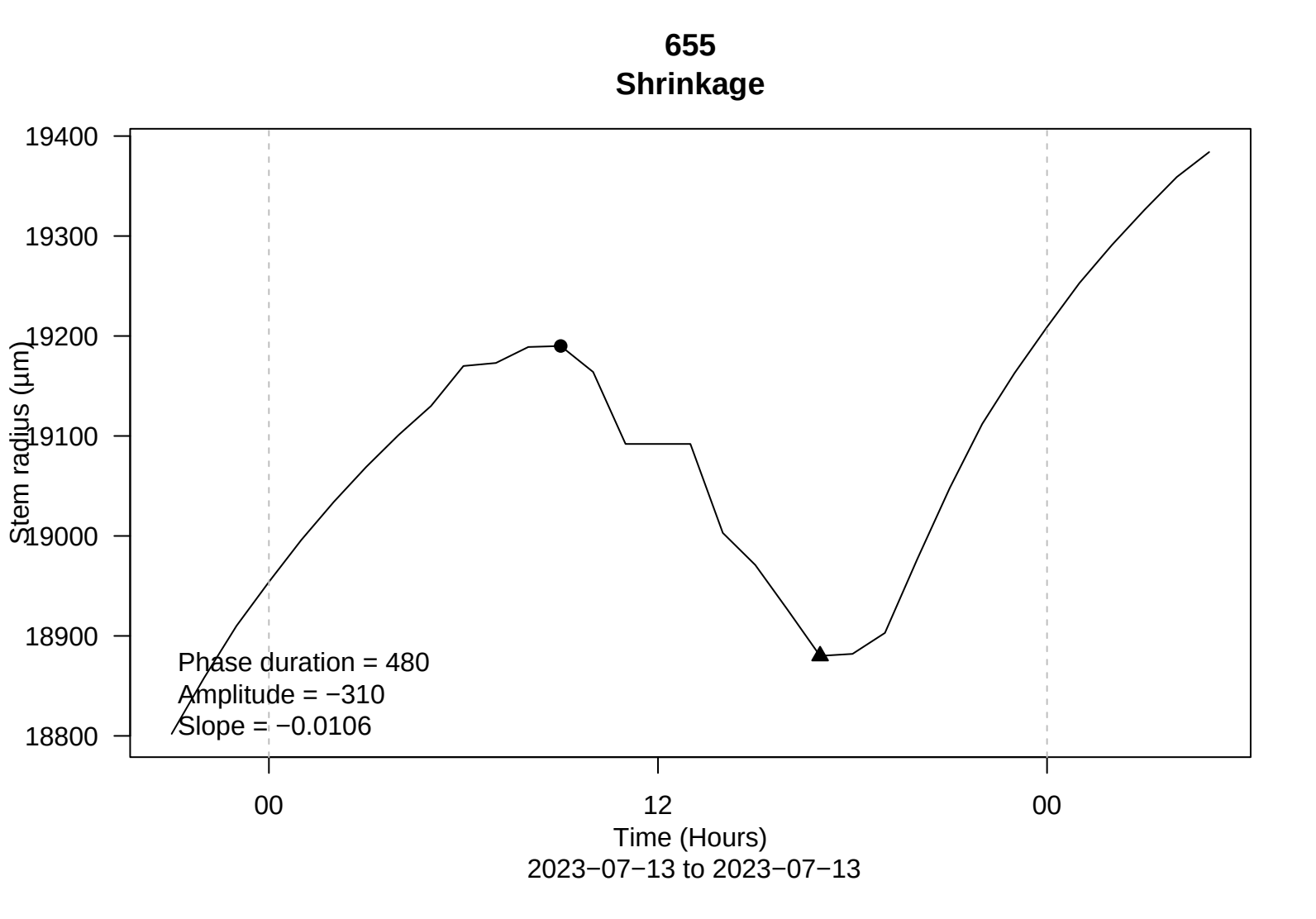

655
Expansion
18700
18600
18500
18400
18300
18200
Stem radius (µm)
Phase duration = 900
Amplitude = 570
Slope = 0.0108
12
00
12
Time (Hours)
2023−07−10 to 2023−07−11

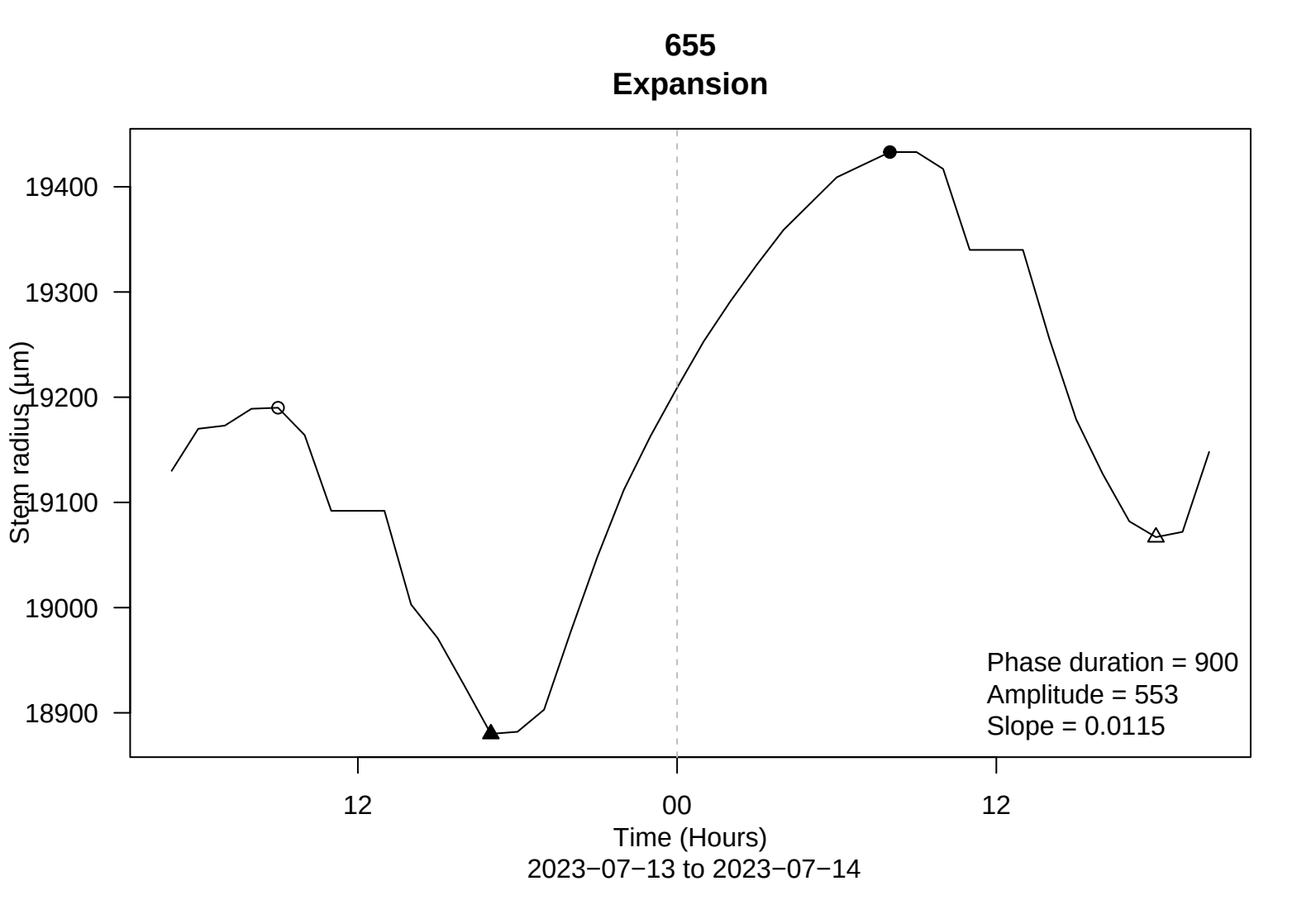

655
Shrinkage
18900
18800
18700
18600
18500
18400
Stem radius (µm)
Phase duration = 540
Amplitude = −304
Slope = −0.0107
00
12
00
Time (Hours)
2023−07−11 to 2023−07−11

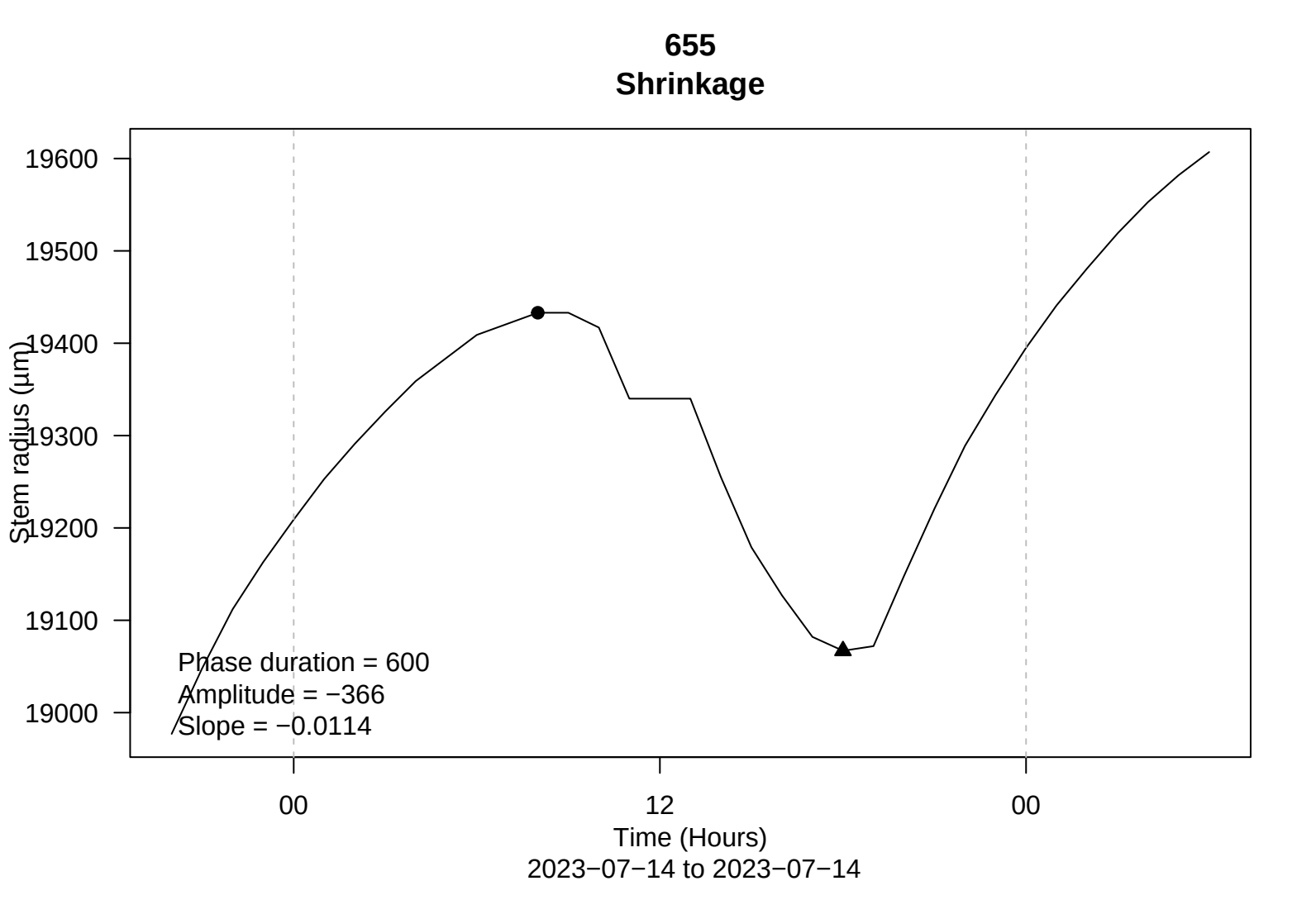

655
Expansion
18900
18800
18700
18600
18500
18400
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−11 to 2023−07−12
Phase duration = 900
Amplitude = 530
Slope = 0.0102

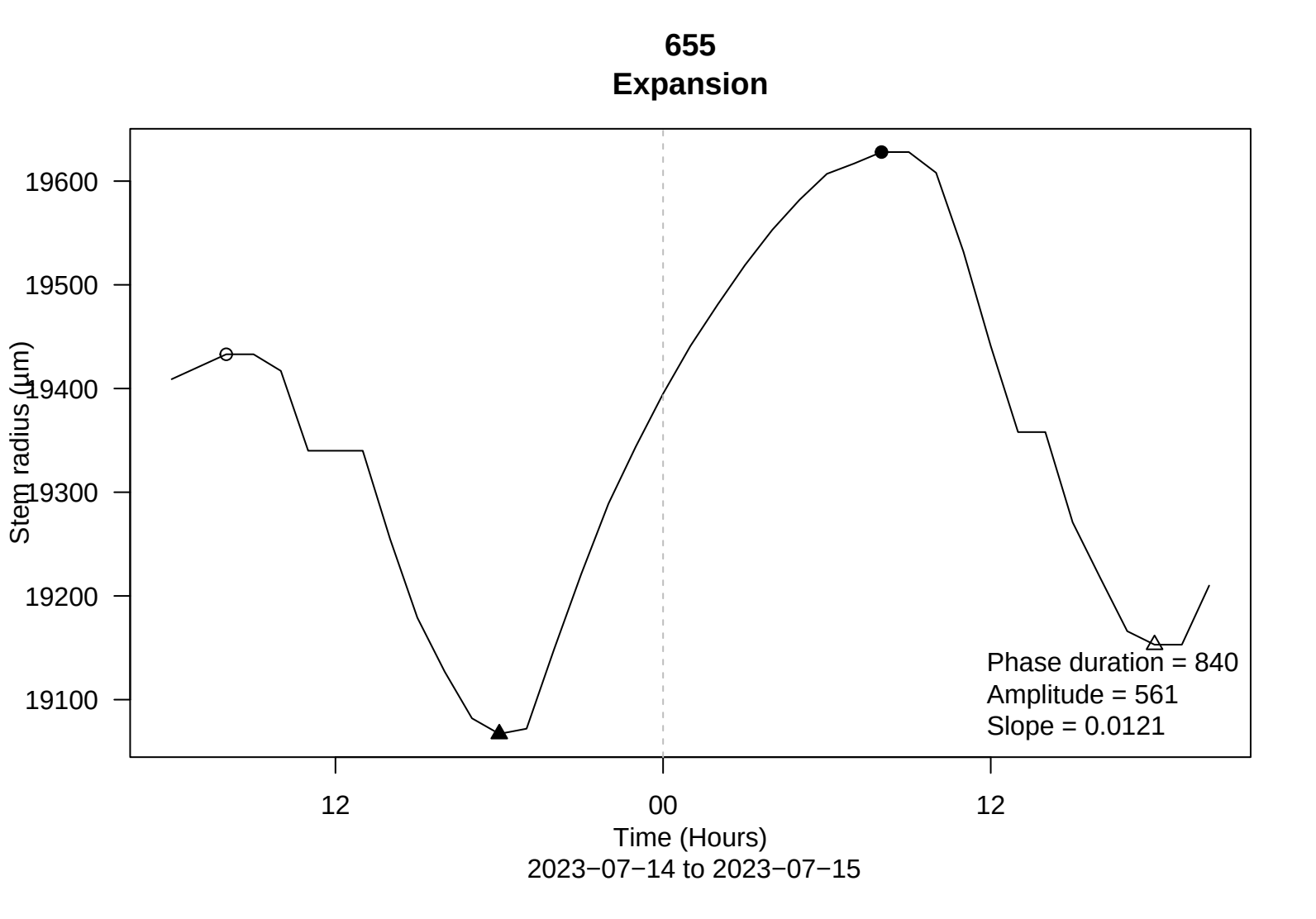

655
Shrinkage
19100
19000
18900
18800
18700
18600
Stem radius (µm)
Phase duration = 540
Amplitude = −310
Slope = −0.0105
00
12
00
Time (Hours)
2023−07−12 to 2023−07−12

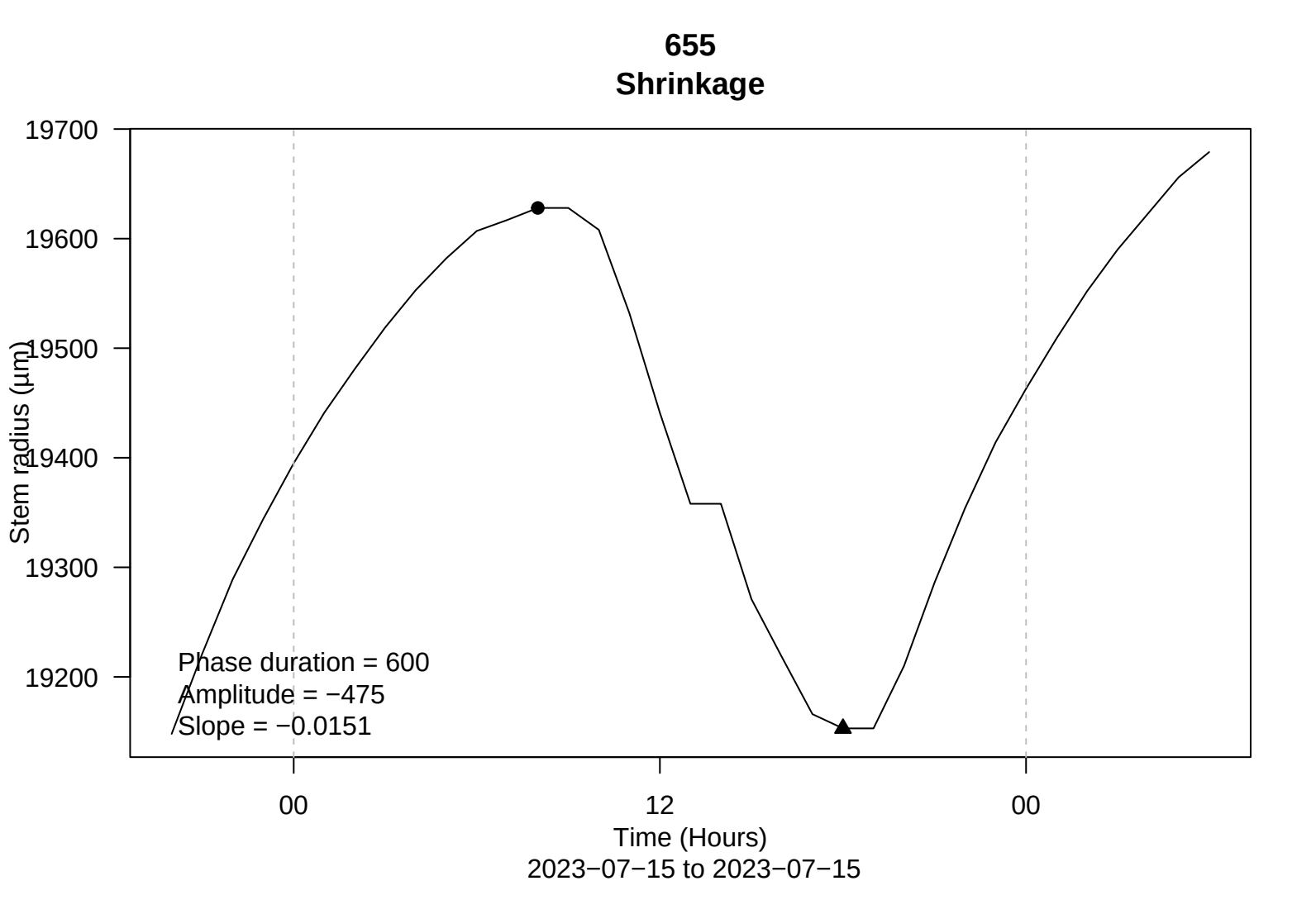

655
Expansion
19200
19100
19000
18900
18800
18700
Stem radius (µm)
Phase duration = 900
Amplitude = 565
Slope = 0.0109
12
00
12
Time (Hours)
2023−07−12 to 2023−07−13

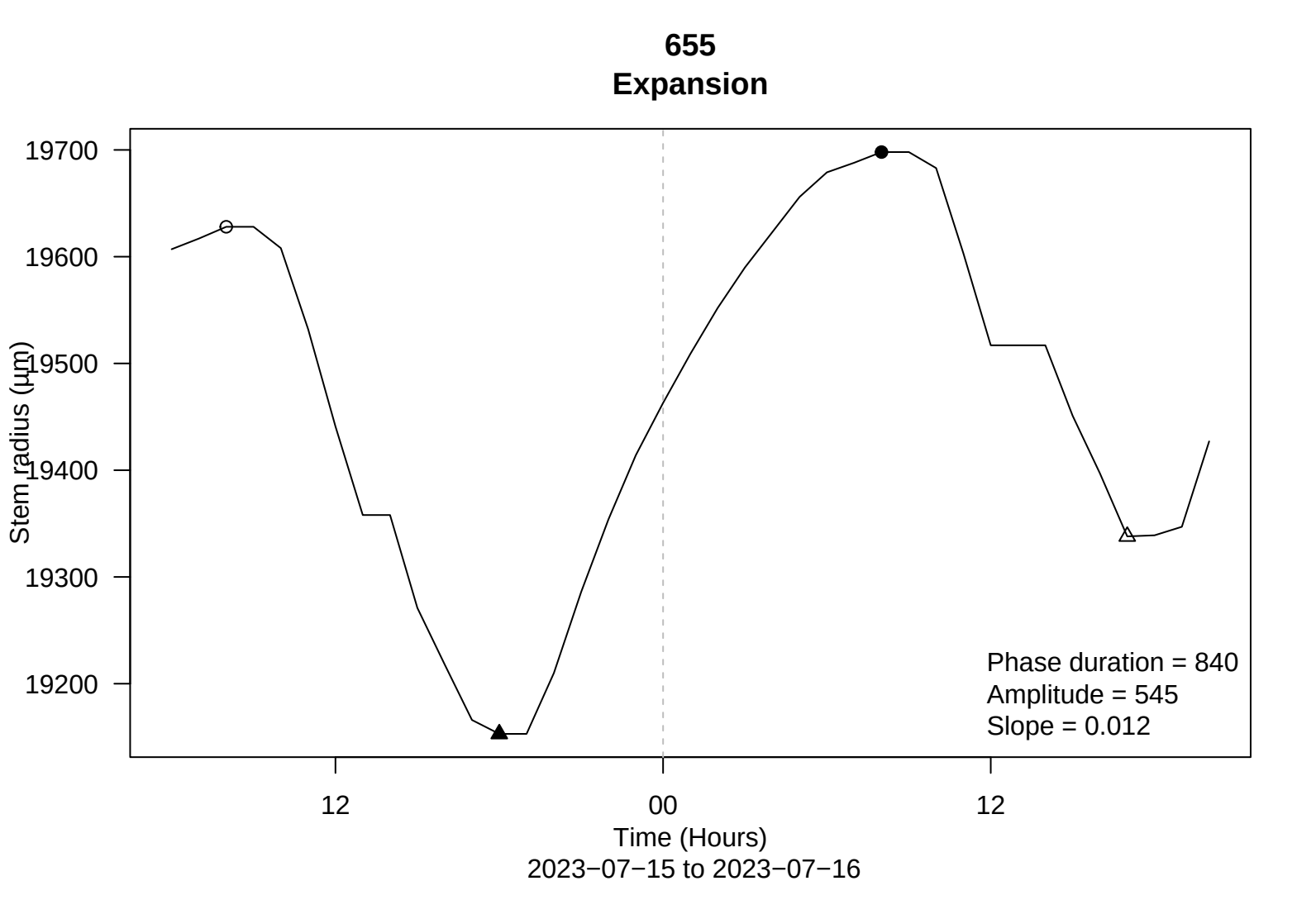

655
Shrinkage
19400
19300
19200
19100
19000
18900
18800
Stem radius (µm)
Phase duration = 480
Amplitude = −310
Slope = −0.0106
00
12
00
Time (Hours)
2023−07−13 to 2023−07−13

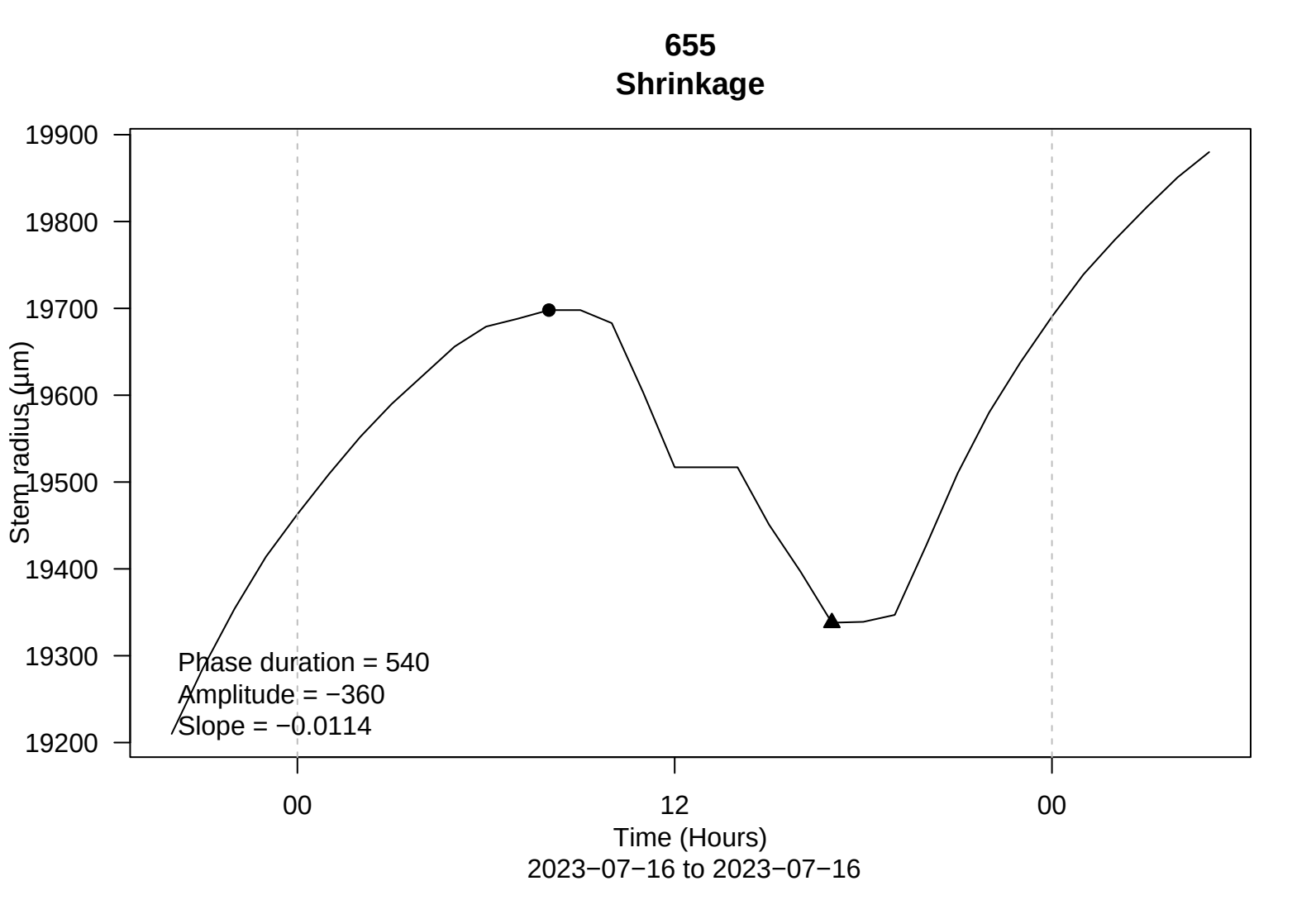

655
Expansion
19400
19300
19200
19100
19000
18900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−13 to 2023−07−14
Phase duration = 900
Amplitude = 553
Slope = 0.0115

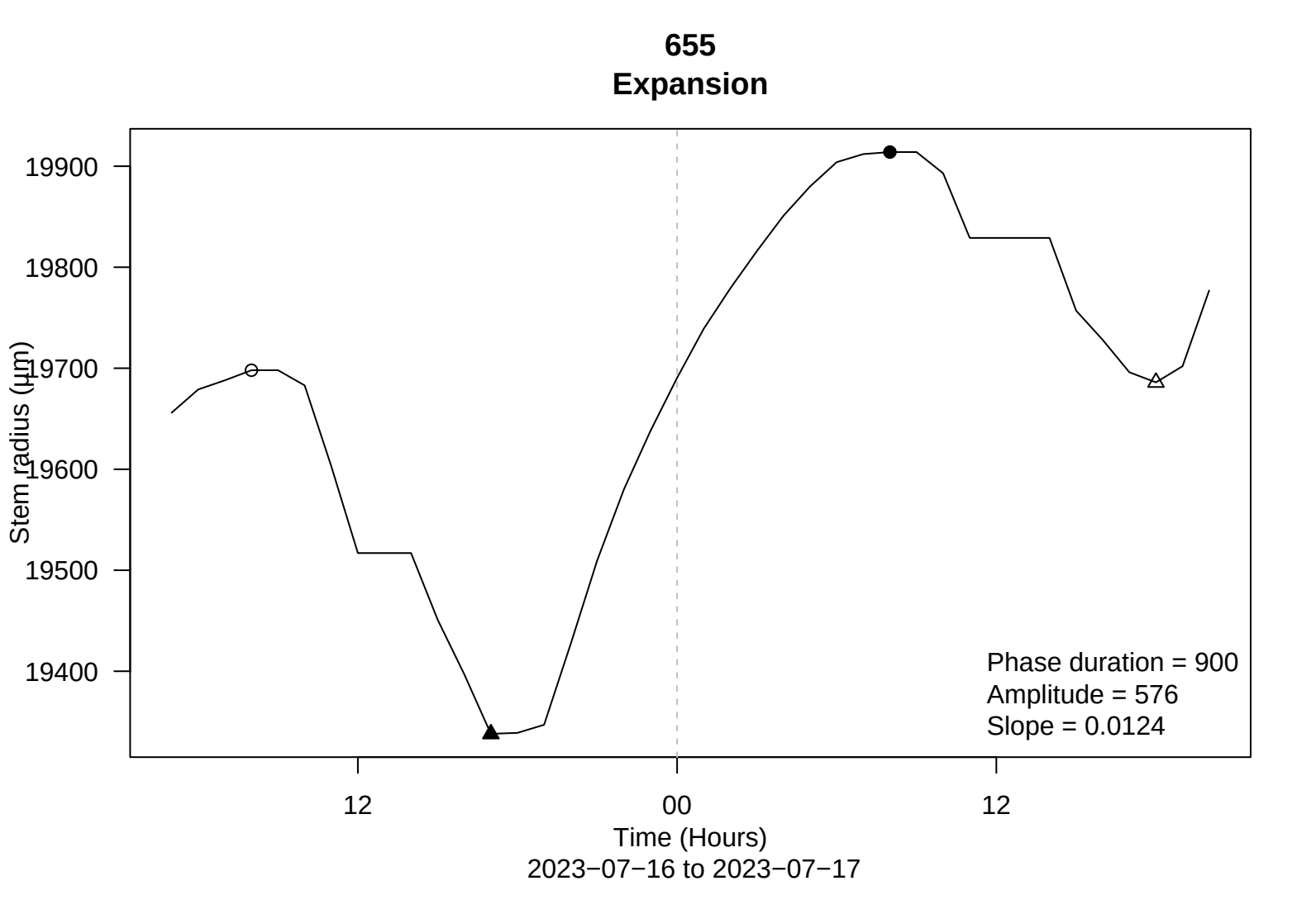

655
Shrinkage
19600
19500
19400
19300
19200
19100
19000
Stem radius (µm)
Phase duration = 600
Amplitude = −366
Slope = −0.0114
00
12
00
Time (Hours)
2023−07−14 to 2023−07−14

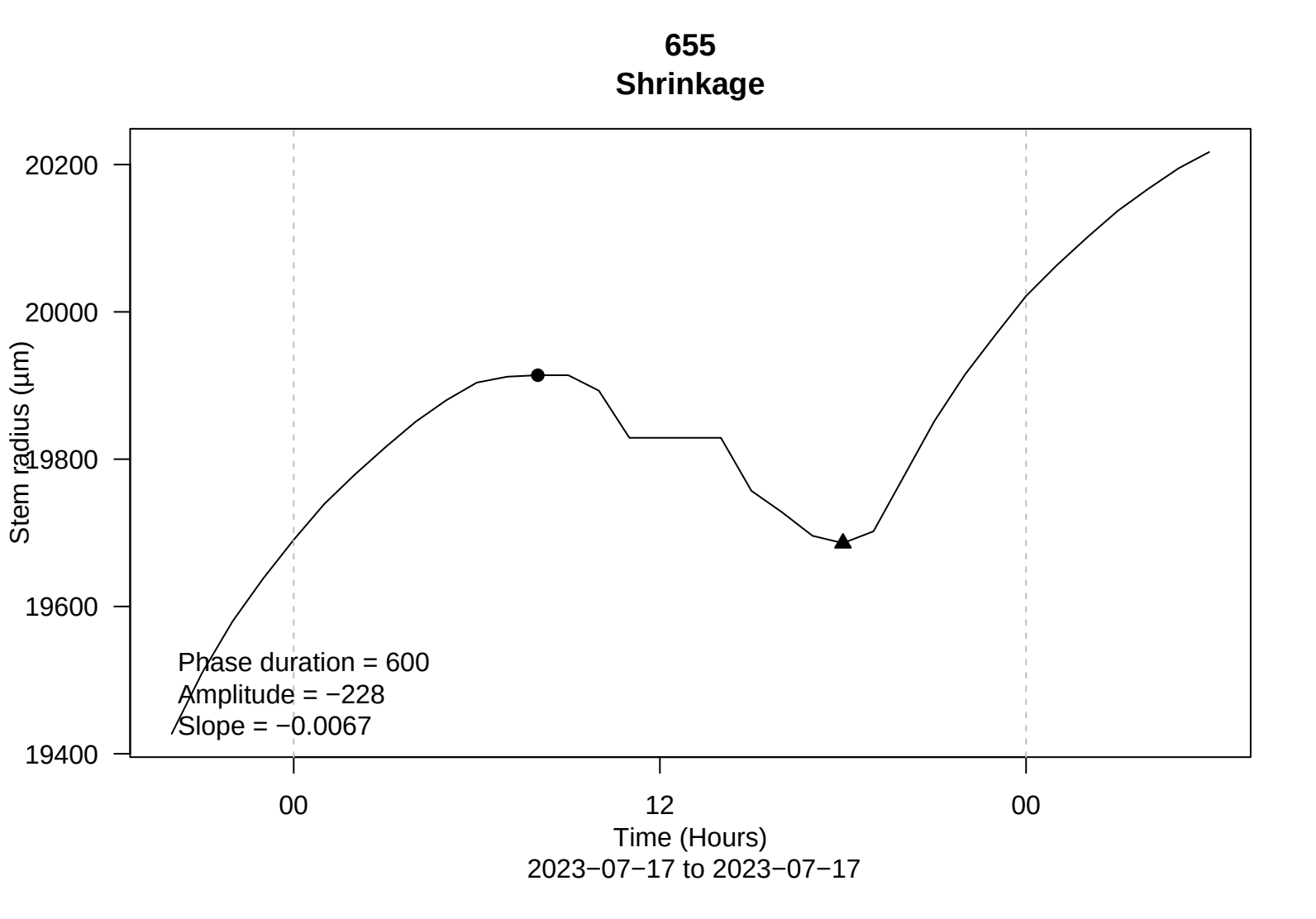

655
Expansion
19600
19500
19400
19300
19200
19100
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−14 to 2023−07−15
Phase duration = 840
Amplitude = 561
Slope = 0.0121

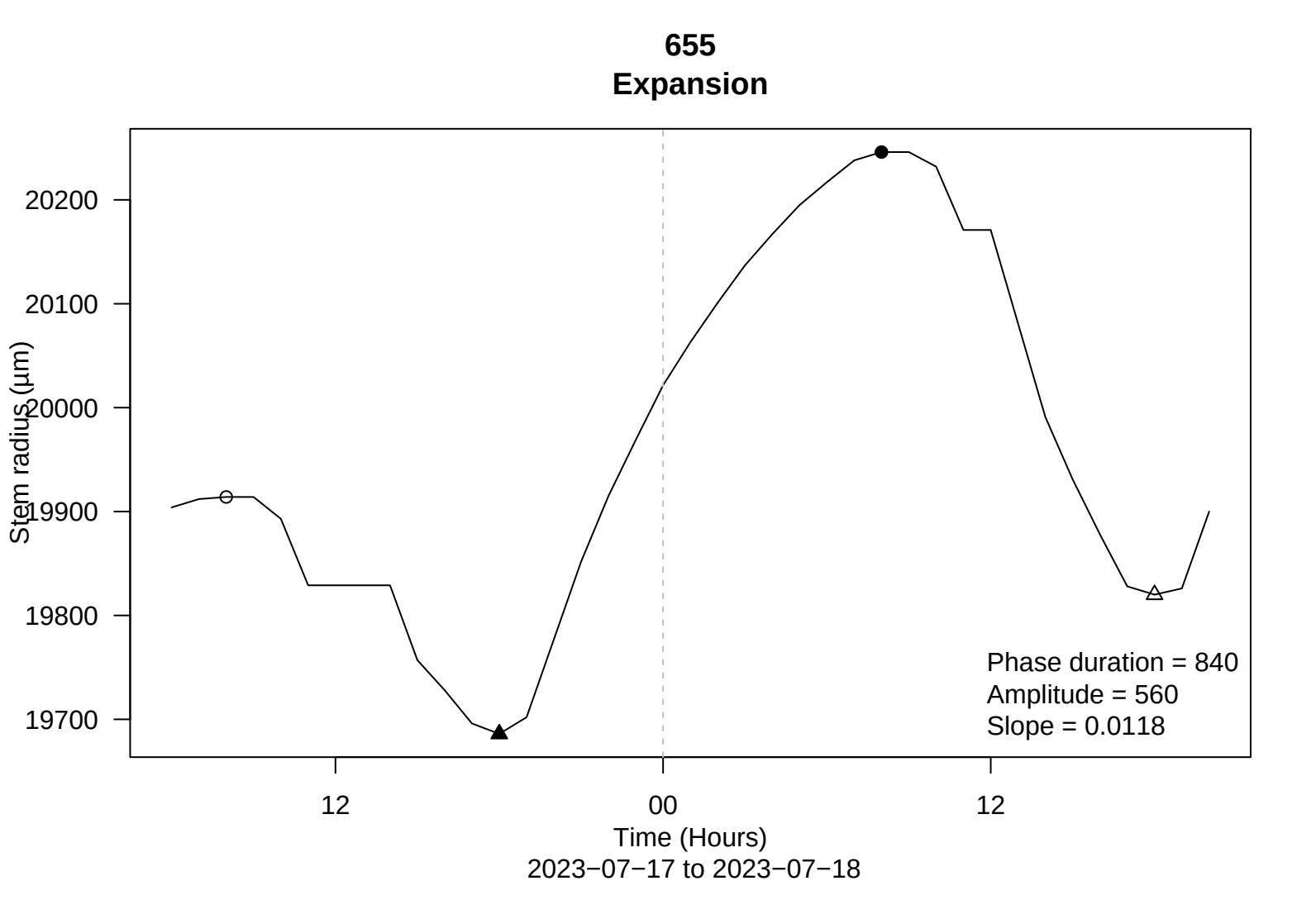

655
Shrinkage
19700
19600
19500
19400
19300
19200
Stem radius (µm)
Phase duration = 600
Amplitude = −475
Slope = −0.0151
00
12
00
Time (Hours)
2023−07−15 to 2023−07−15

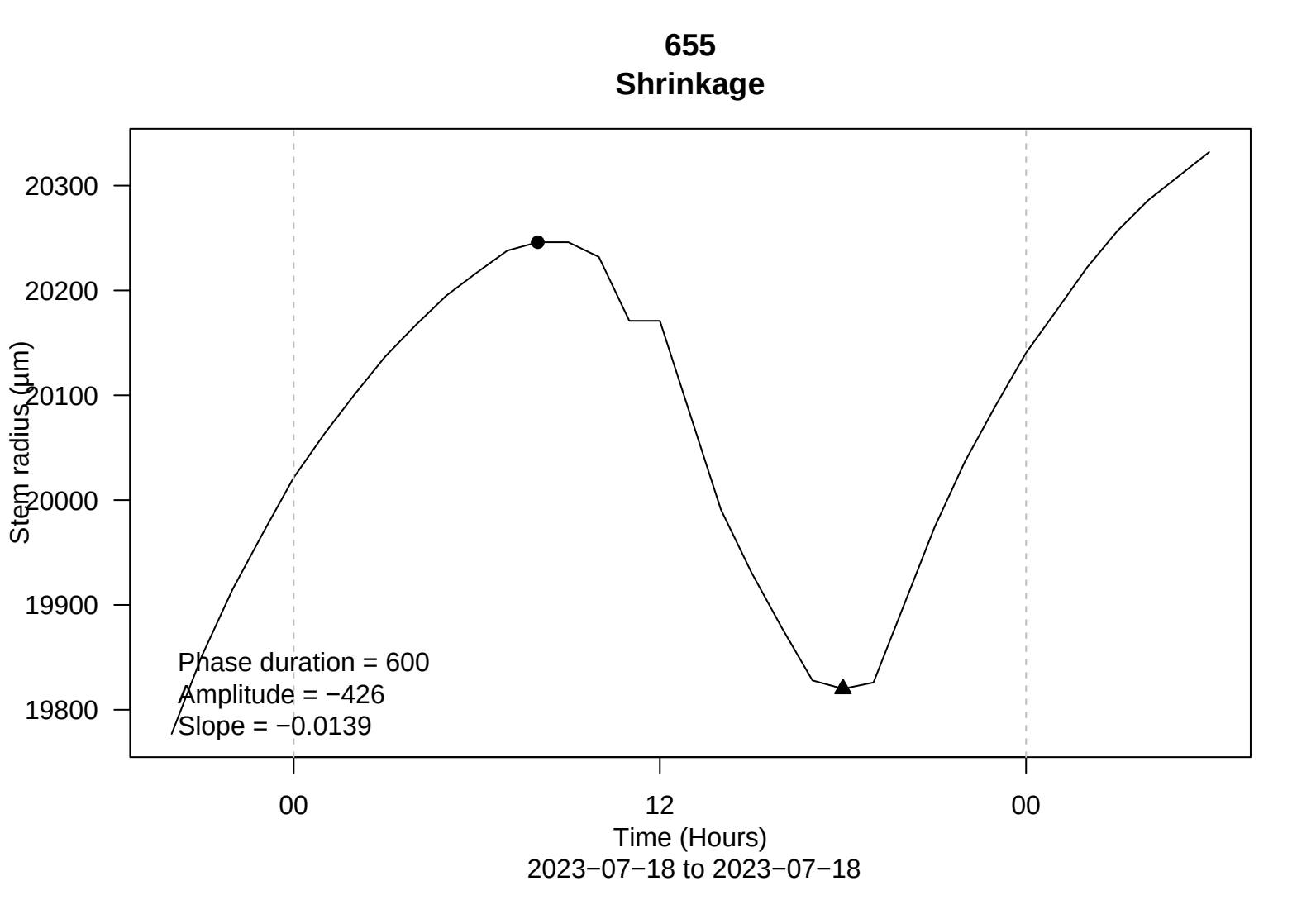

655
Expansion
19700
19600
19500
19400
19300
19200
Stem radius (µm)
Phase duration = 840
Amplitude = 545
Slope = 0.012
12
00
12
Time (Hours)
2023−07−15 to 2023−07−16

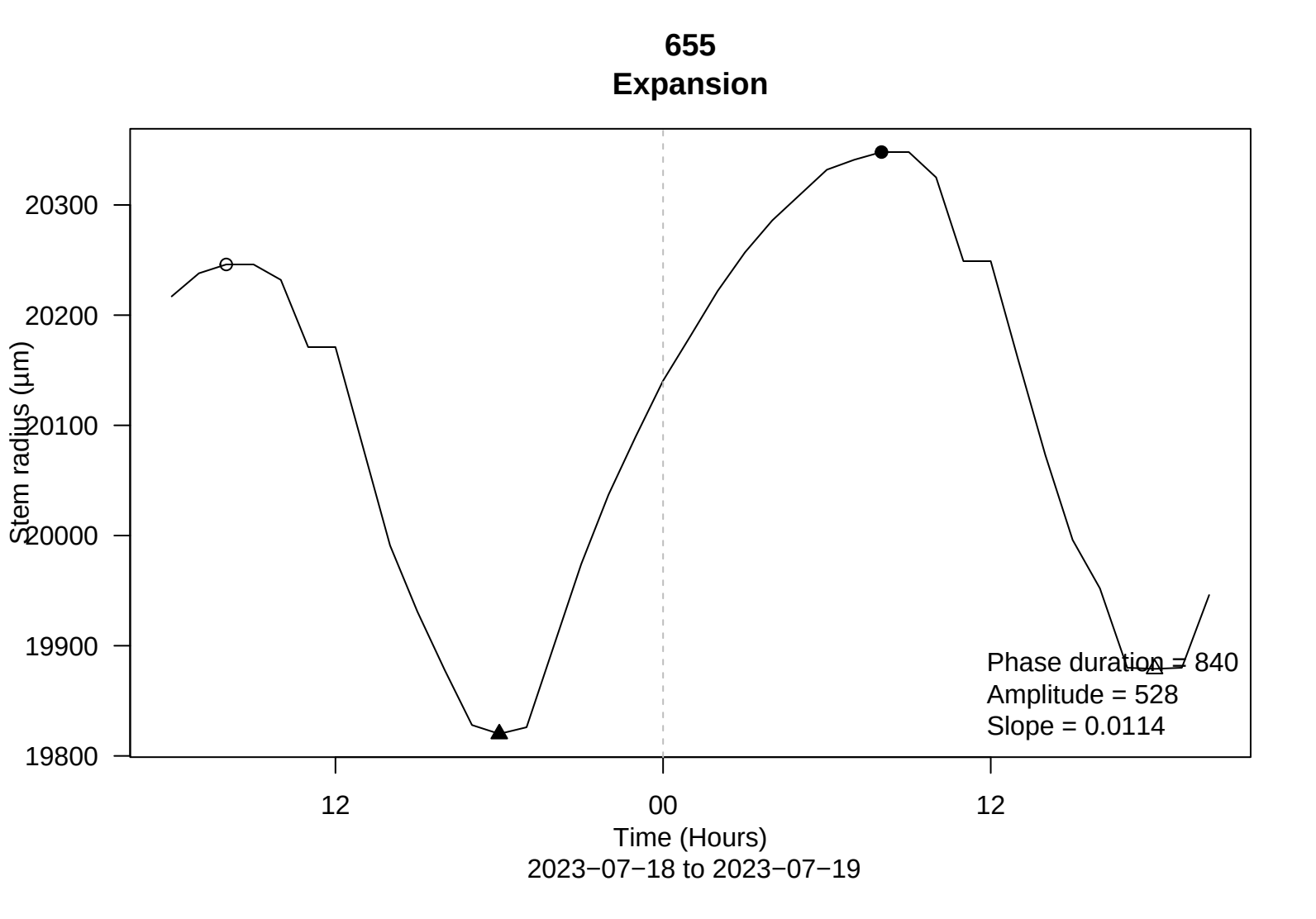

655
Shrinkage
19900
19800
19700
19600
19500
19400
19300
19200
Stem radius (µm)
Phase duration = 540
Amplitude = −360
Slope = −0.0114
00
12
00
Time (Hours)
2023−07−16 to 2023−07−16

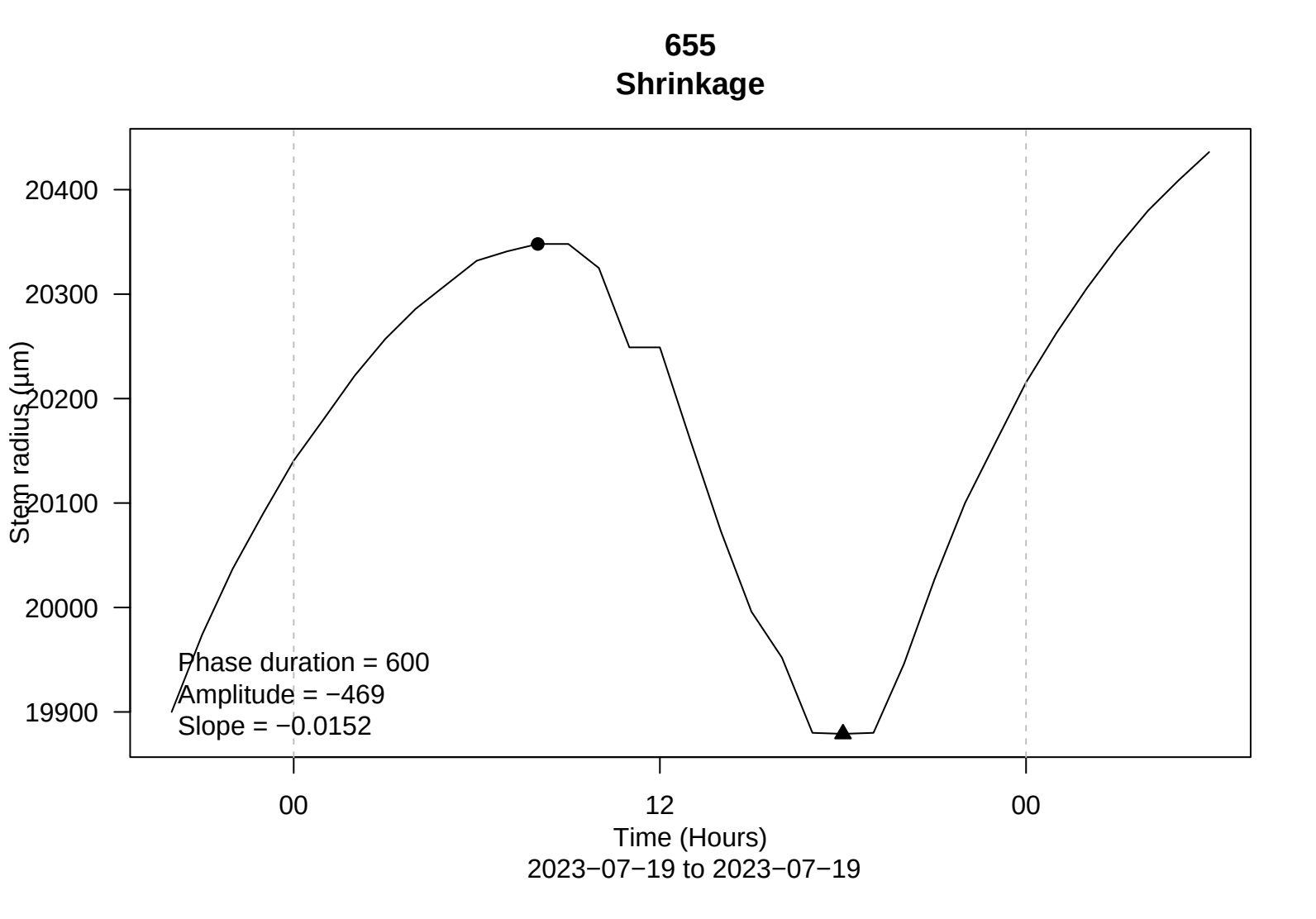

655
Expansion
19900
19800
19700
19600
19500
19400
Stem radius (µm)
Phase duration = 900
Amplitude = 576
Slope = 0.0124
12
00
12
Time (Hours)
2023−07−16 to 2023−07−17

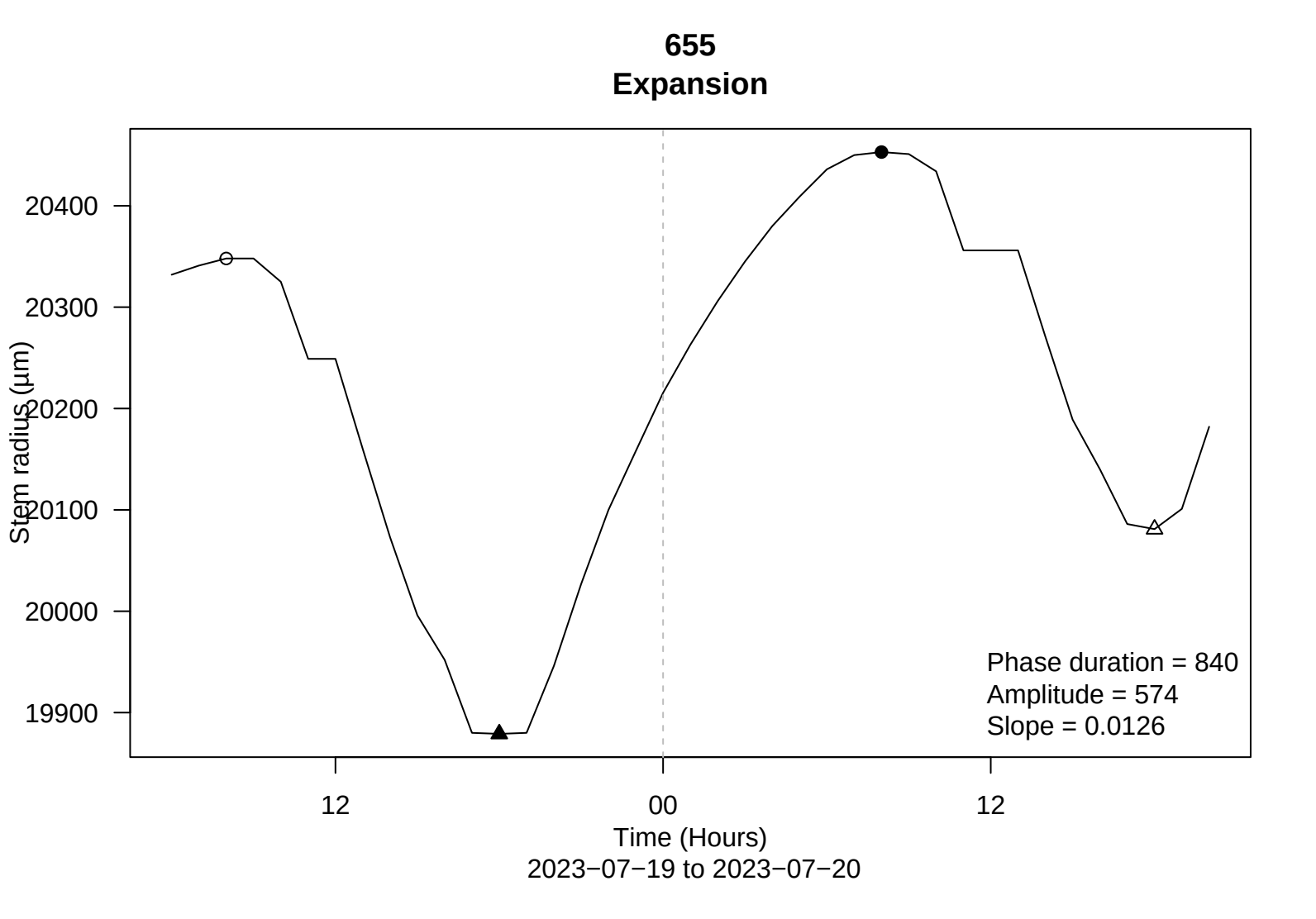

655
Shrinkage
20200
20000
19800
19600
19400
Stem radius (µm)
Phase duration = 600
Amplitude = −228
Slope = −0.0067
00
12
00
Time (Hours)
2023−07−17 to 2023−07−17

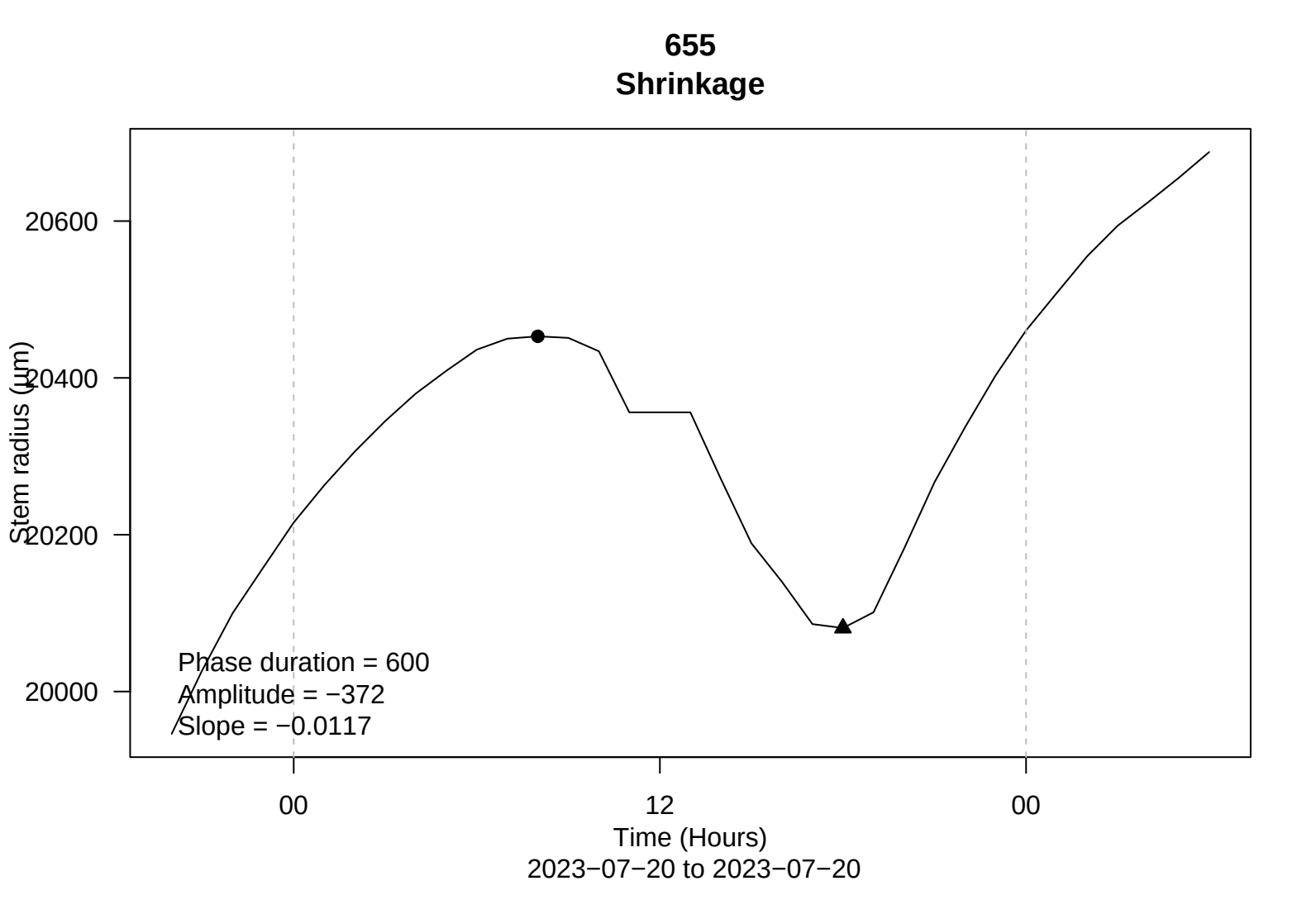

655
Expansion
20200
20100
20000
19900
19800
19700
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−17 to 2023−07−18
Phase duration = 840
Amplitude = 560
Slope = 0.0118

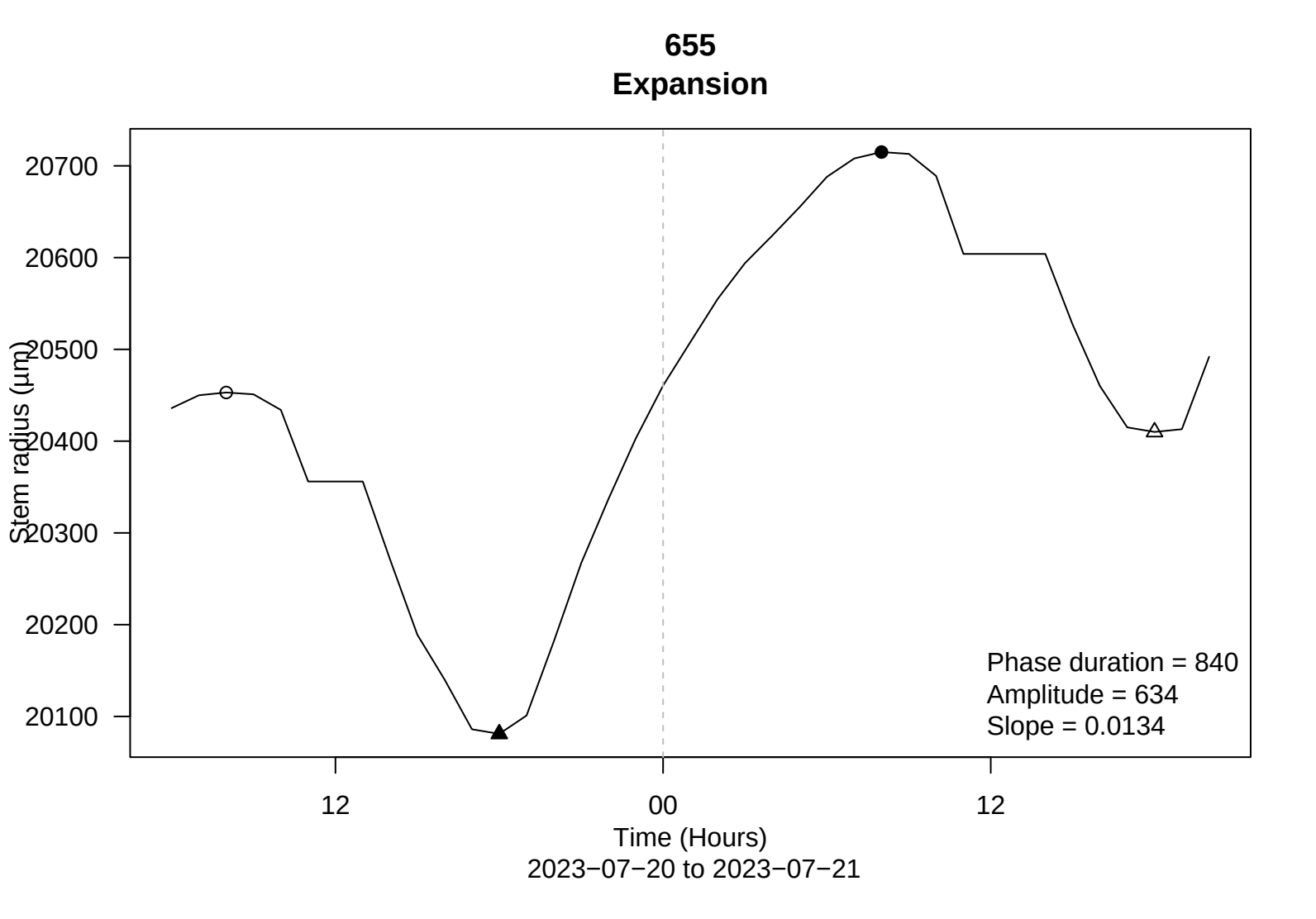

655
Shrinkage
20300
20200
20100
20000
19900
19800
Stem radius (µm)
Phase duration = 600
Amplitude = −426
Slope = −0.0139
00
12
00
Time (Hours)
2023−07−18 to 2023−07−18

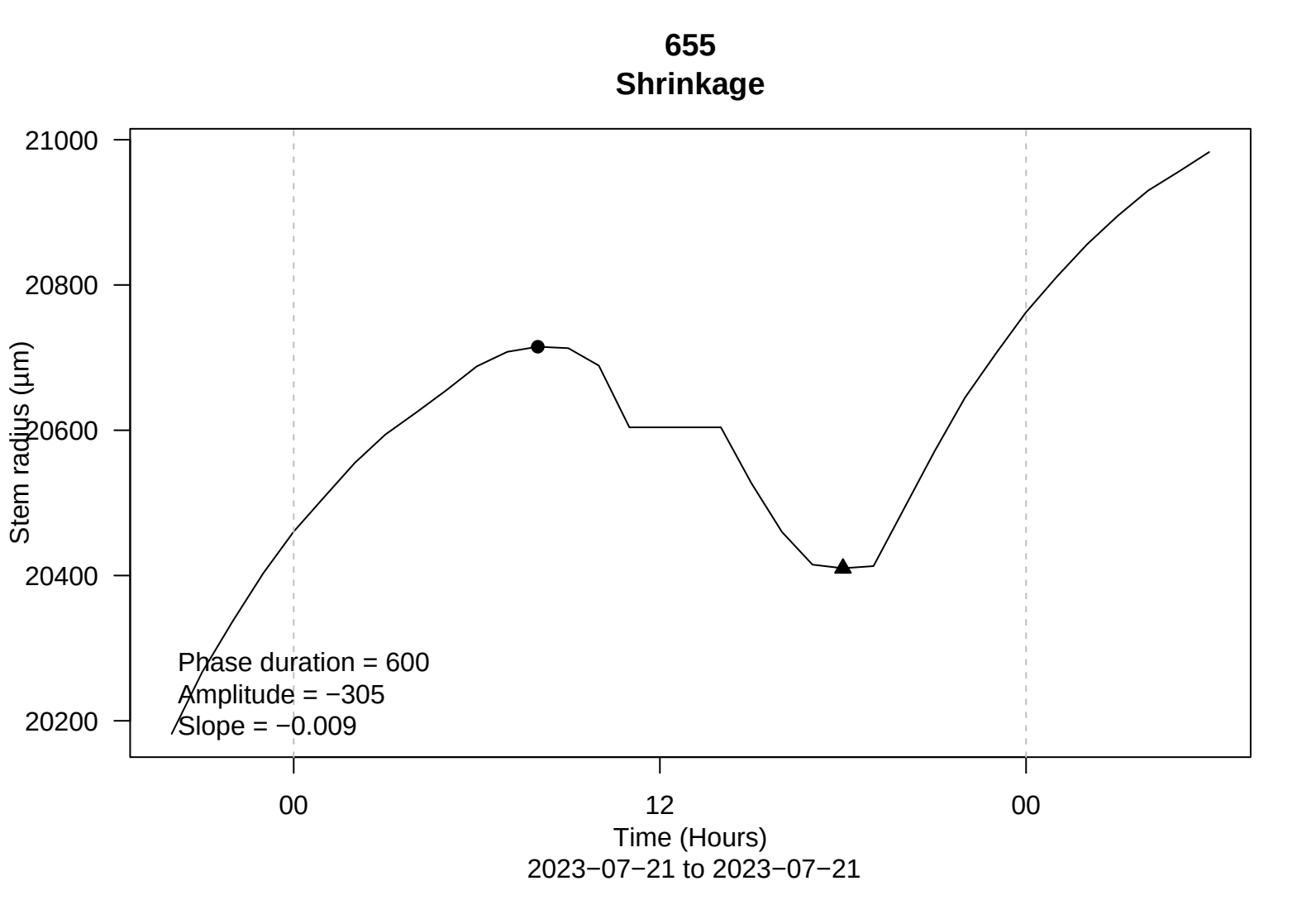

655
Expansion
20300
20200
20100
20000
19900
19800
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−18 to 2023−07−19
Phase duration = 840
Amplitude = 528
Slope = 0.0114

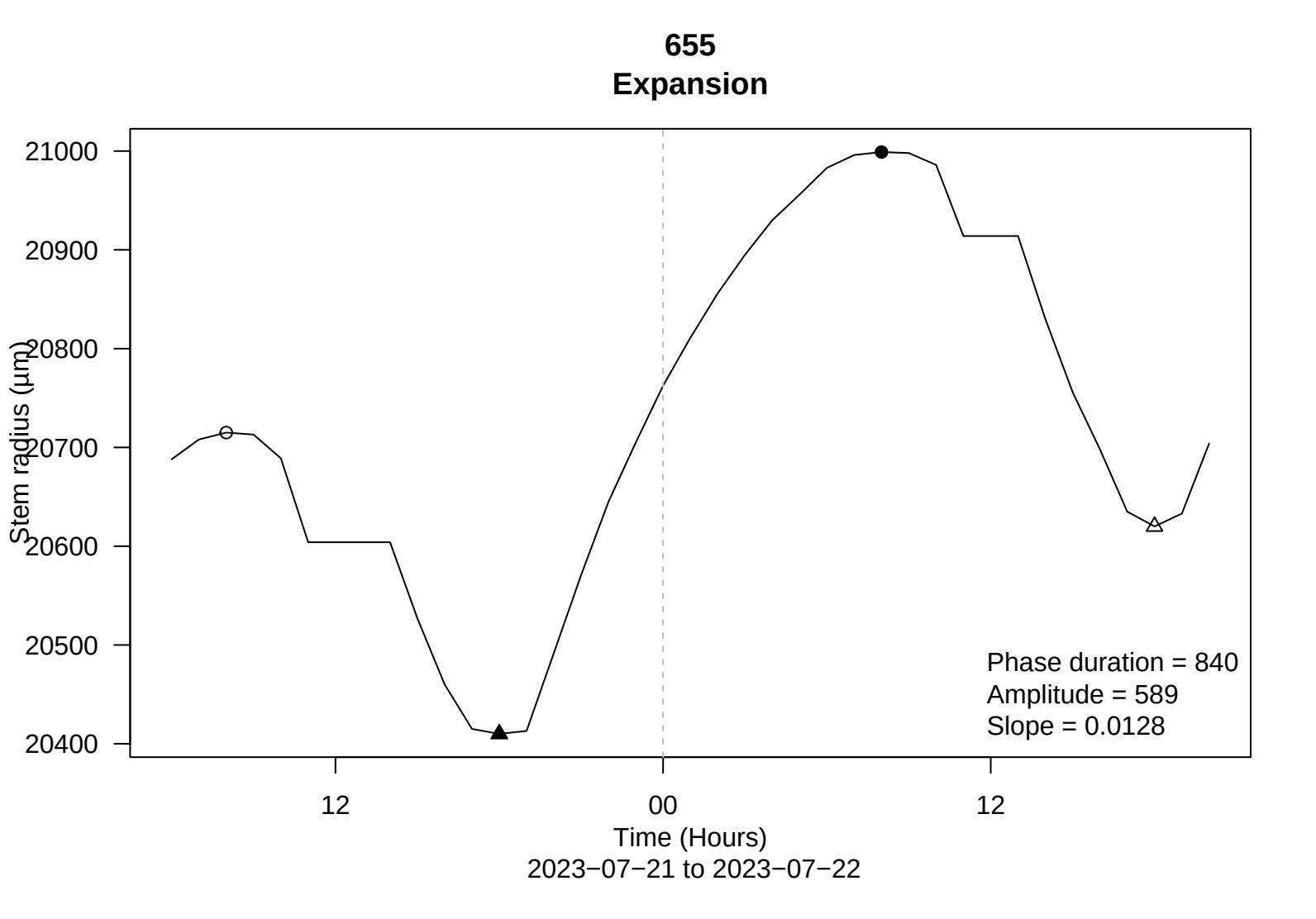

655
Shrinkage
20400
20300
20200
20100
20000
19900
Stem radius (µm)
Phase duration = 600
Amplitude = −469
Slope = −0.0152
00
12
00
Time (Hours)
2023−07−19 to 2023−07−19

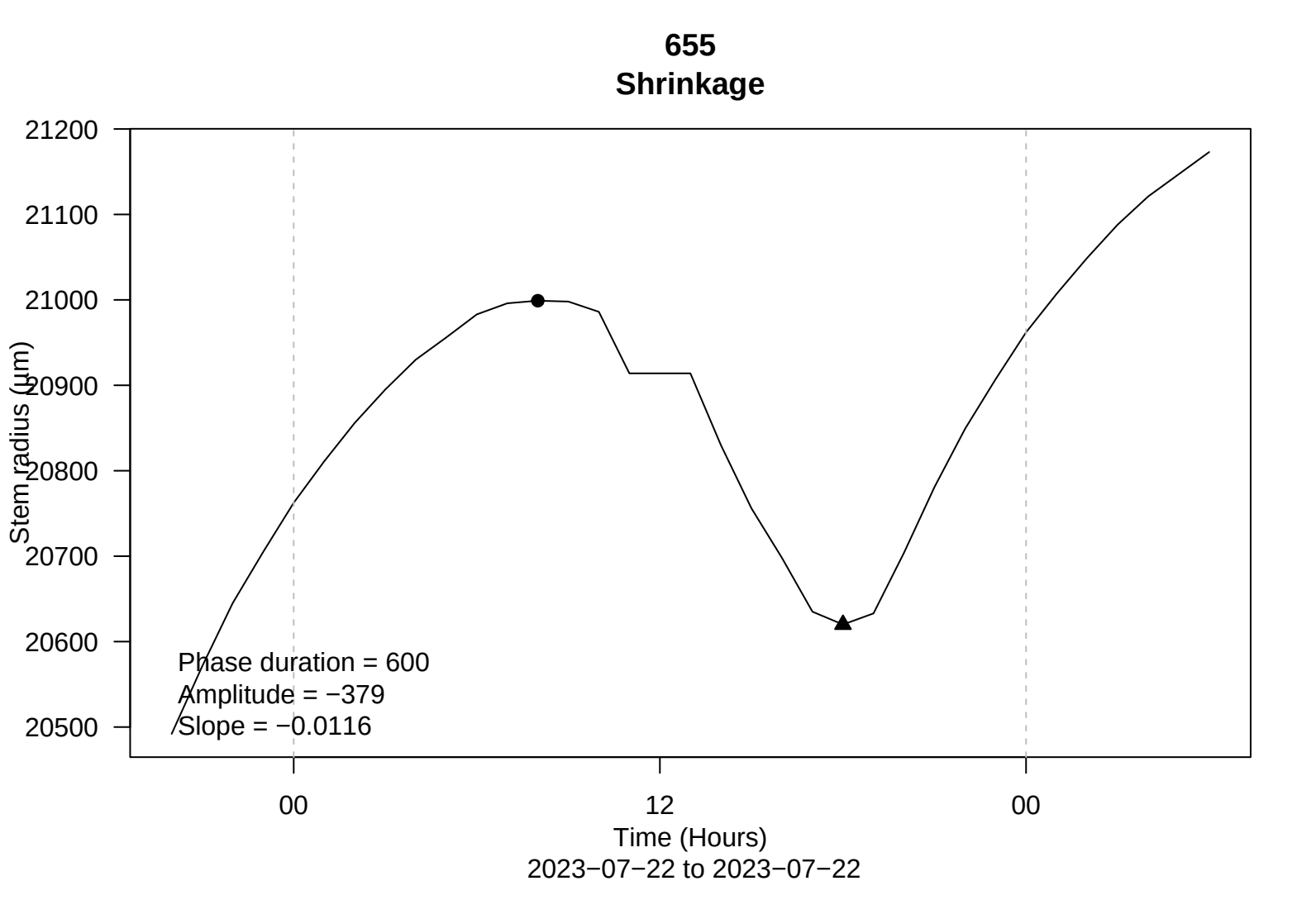

655
Expansion
20400
20300
20200
20100
20000
19900
Stem radius (µm)
Phase duration = 840
Amplitude = 574
Slope = 0.0126
12
00
12
Time (Hours)
2023−07−19 to 2023−07−20

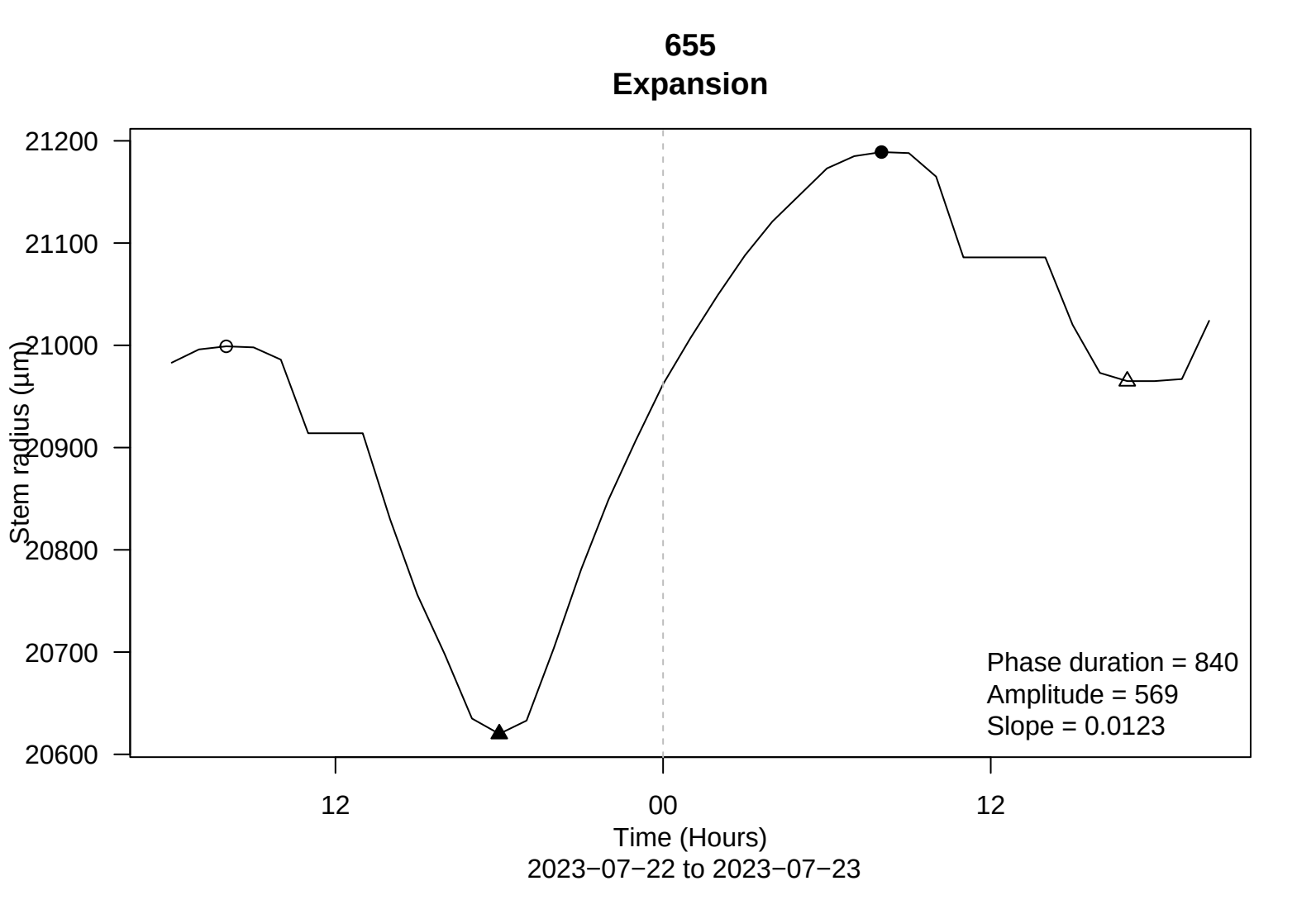

655
Shrinkage
20600
20400
20200
20000
Stem radius (µm)
Phase duration = 600
Amplitude = −372
Slope = −0.0117
00
12
00
Time (Hours)
2023−07−20 to 2023−07−20

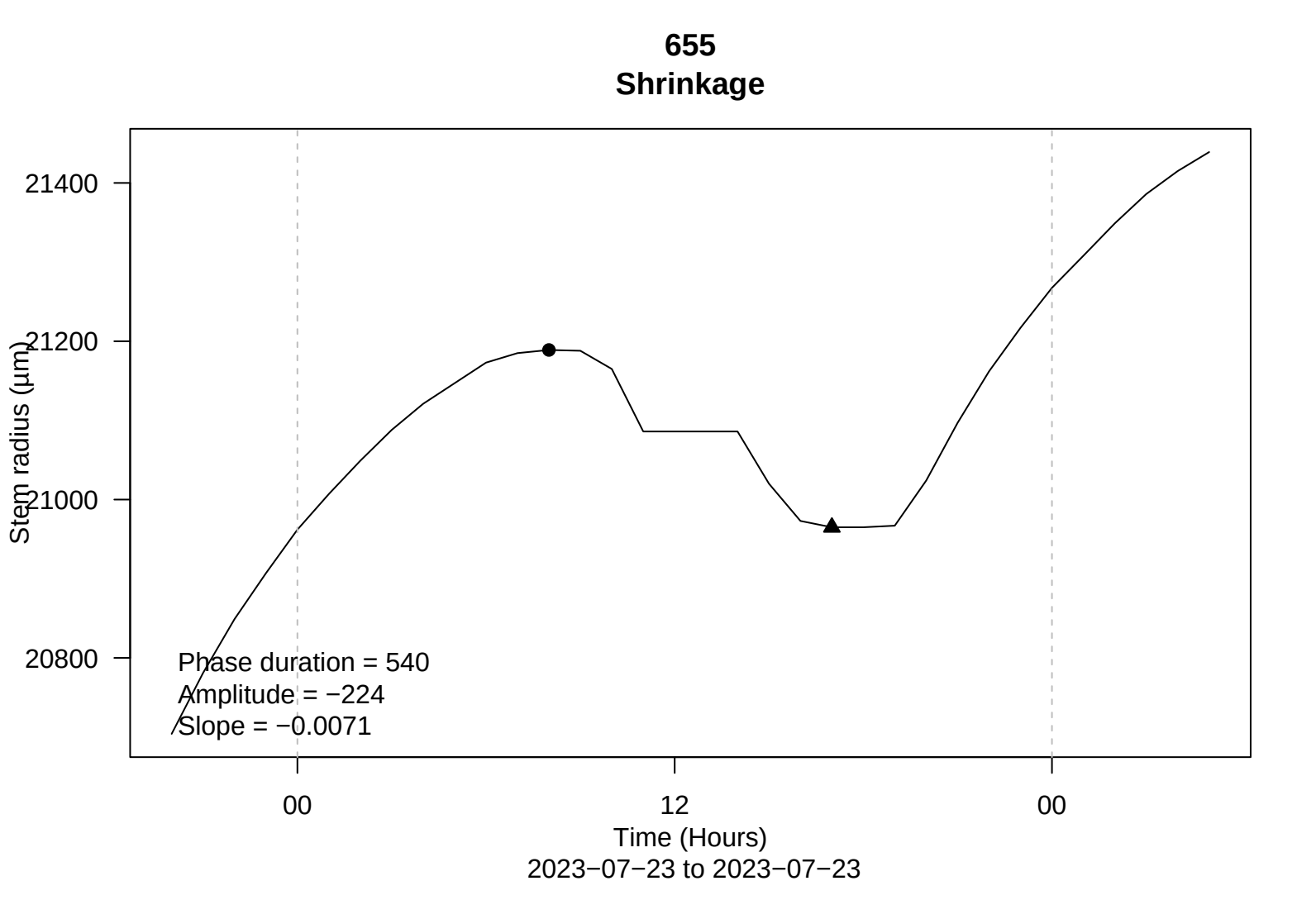

655
Expansion
20700
20600
20500
20400
20300
20200
20100
Stem radius (µm)
Phase duration = 840
Amplitude = 634
Slope = 0.0134
12
00
12
Time (Hours)
2023−07−20 to 2023−07−21

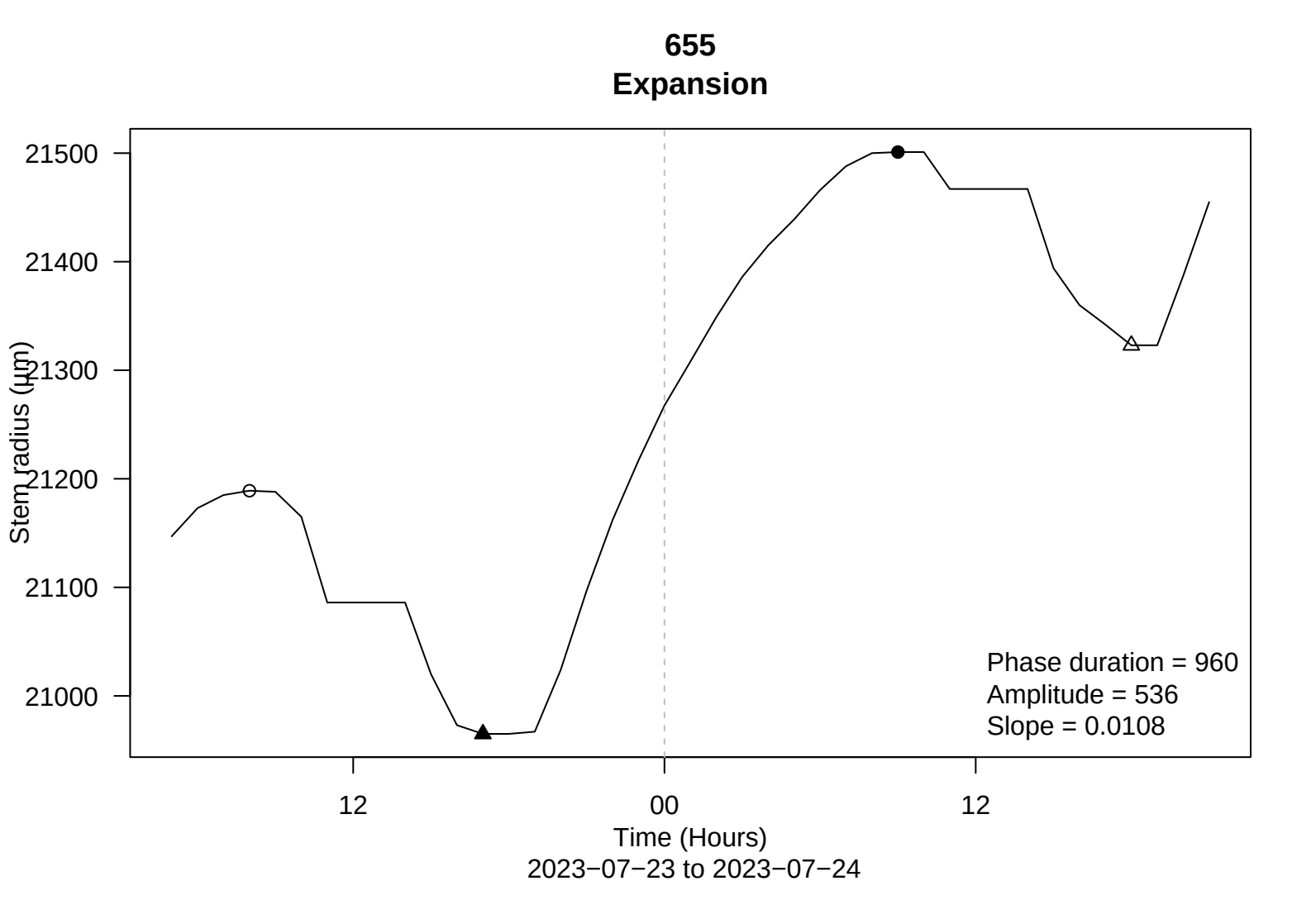

655
Shrinkage
21000
20800
20600
20400
20200
Stem radius (µm)
Phase duration = 600
Amplitude = −305
Slope = −0.009
00
12
00
Time (Hours)
2023−07−21 to 2023−07−21

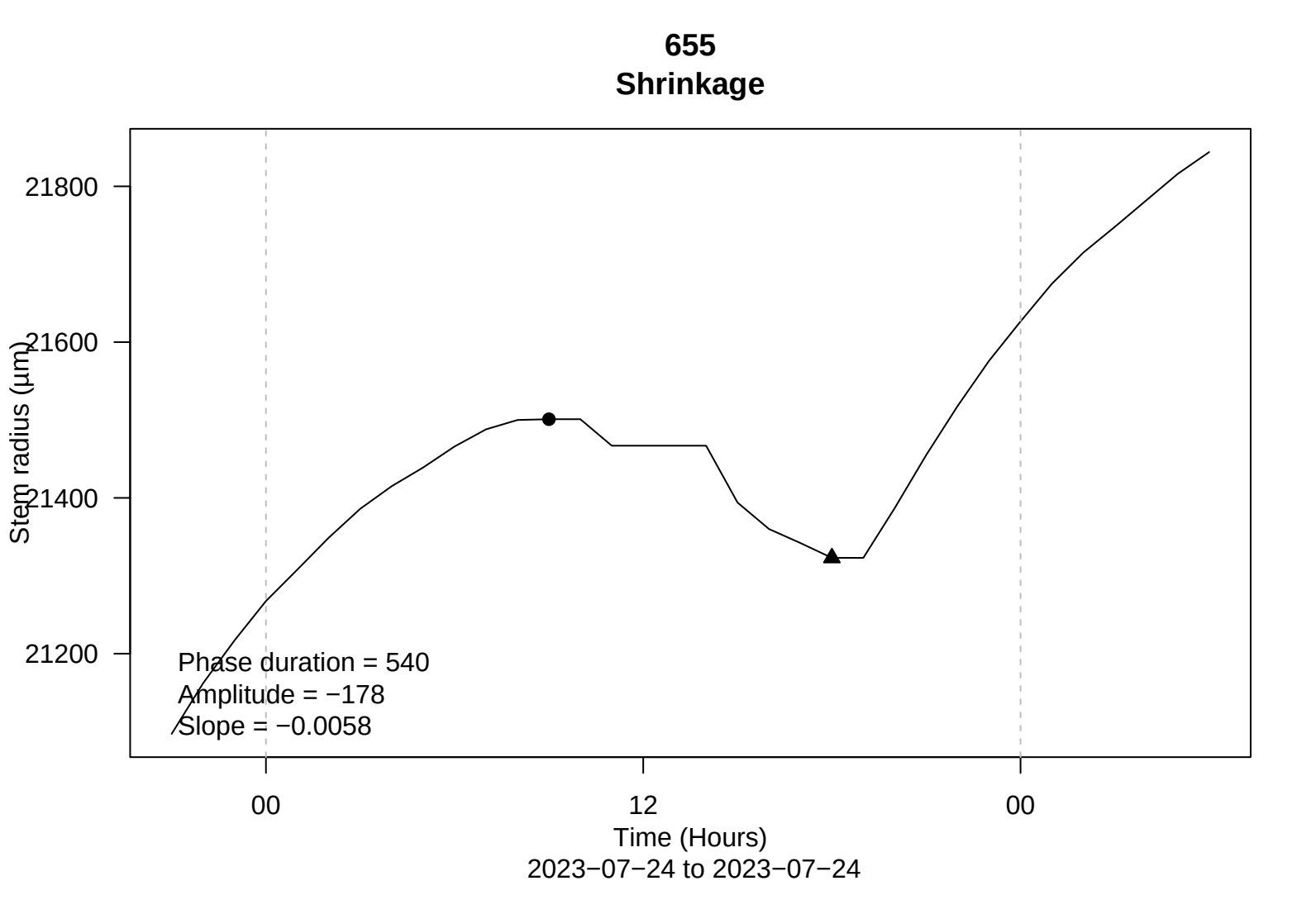

655
Expansion
21000
20900
20800
20700
20600
20500
20400
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−21 to 2023−07−22
Phase duration = 840
Amplitude = 589
Slope = 0.0128

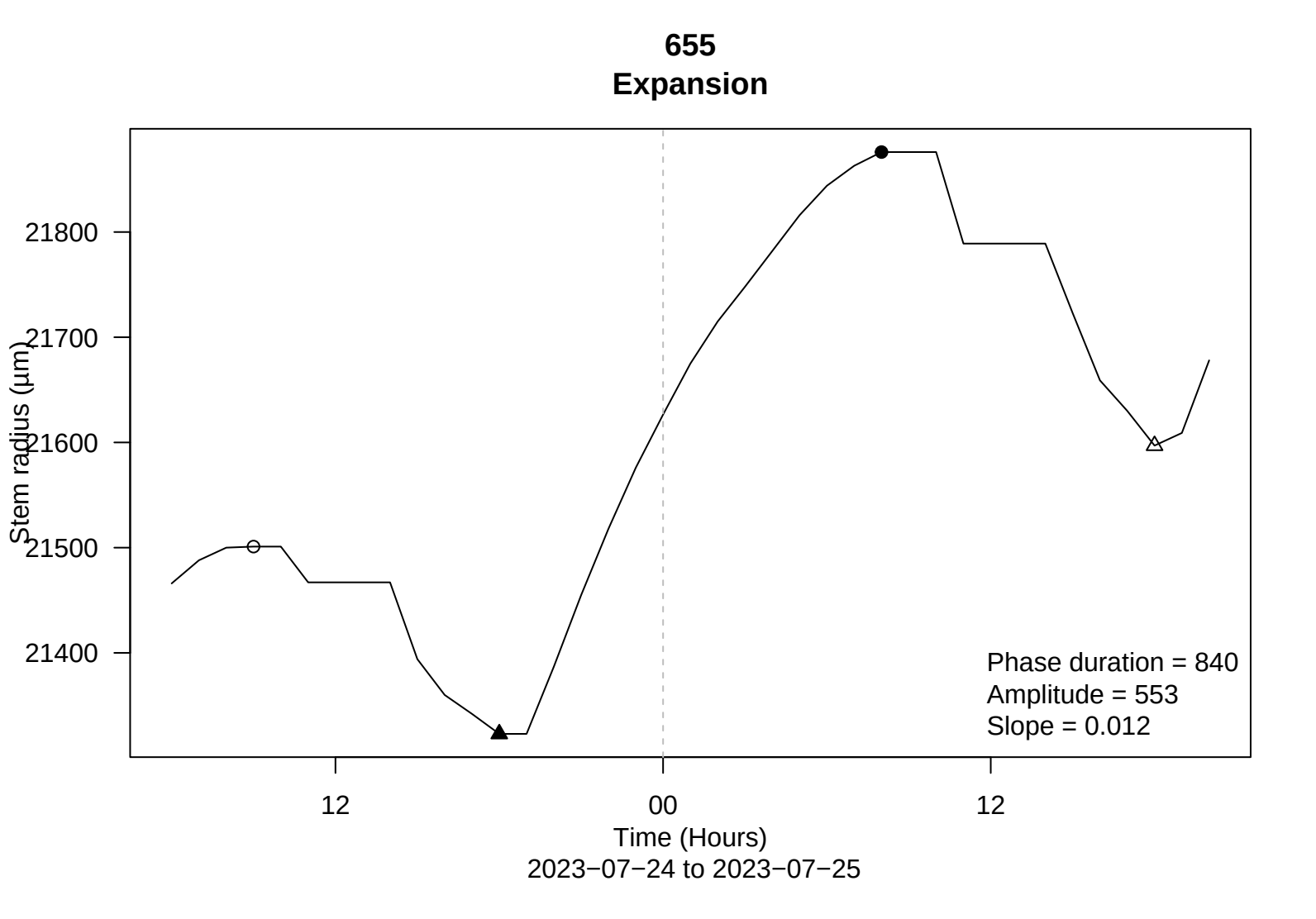

655
Shrinkage
21200
21100
21000
20900
20800
20700
20600
20500
Stem radius (µm)
Phase duration = 600
Amplitude = −379
Slope = −0.0116
00
12
00
Time (Hours)
2023−07−22 to 2023−07−22

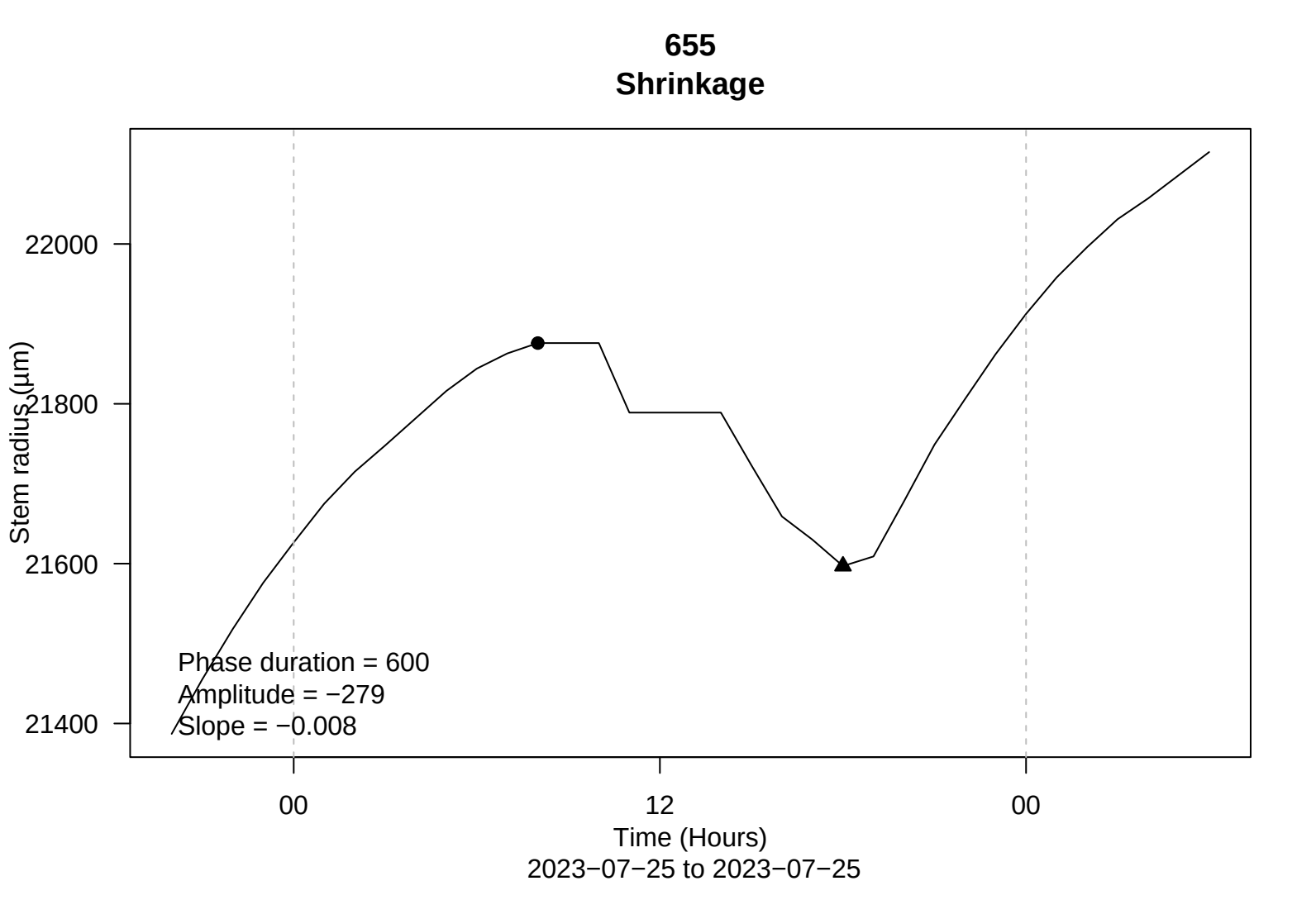

655
Expansion
21200
21100
21000
20900
20800
20700
20600
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−22 to 2023−07−23
Phase duration = 840
Amplitude = 569
Slope = 0.0123

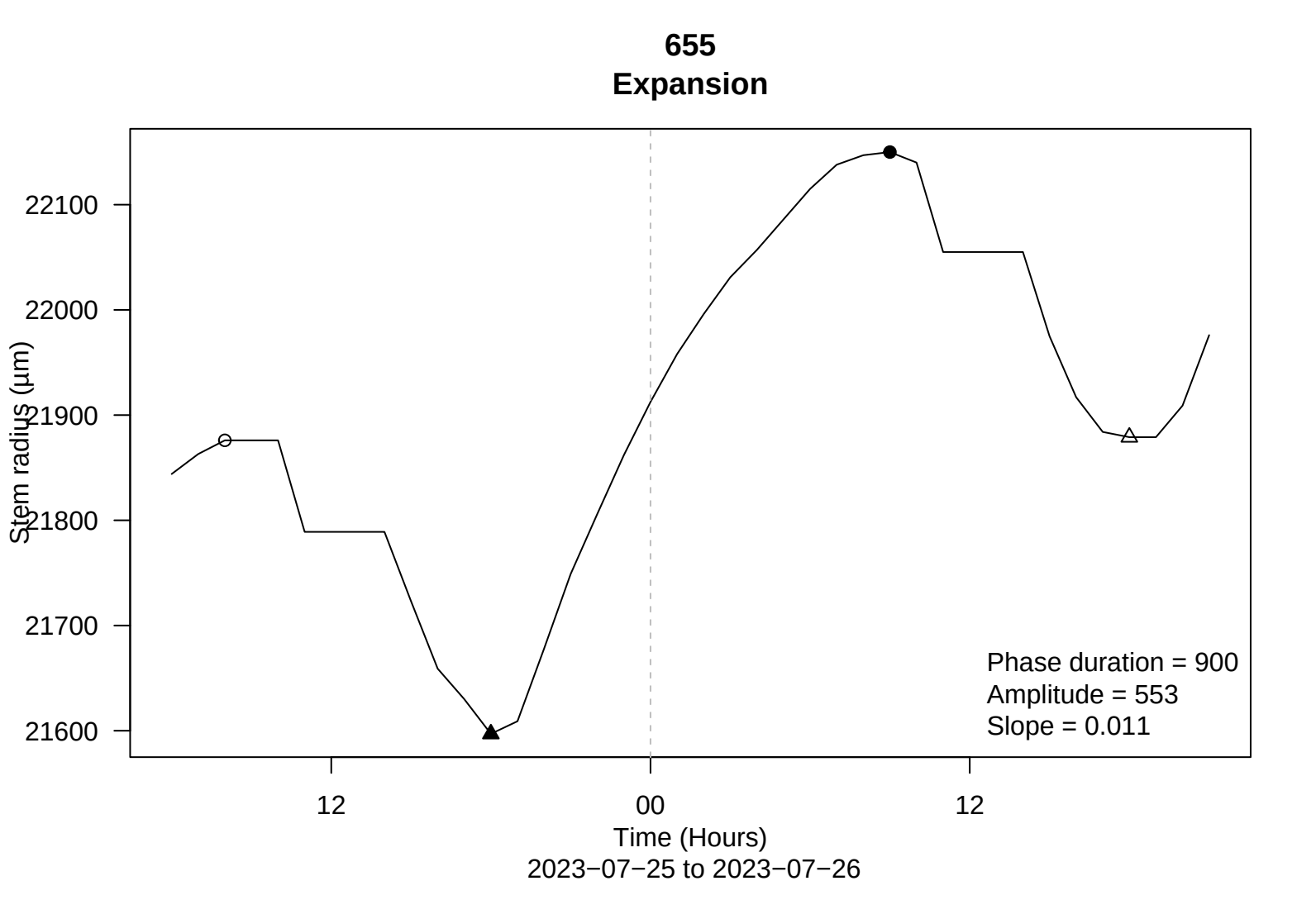

655
Shrinkage
21400
21200
21000
20800
Stem radius (µm)
Phase duration = 540
Amplitude = −224
Slope = −0.0071
00
12
00
Time (Hours)
2023−07−23 to 2023−07−23

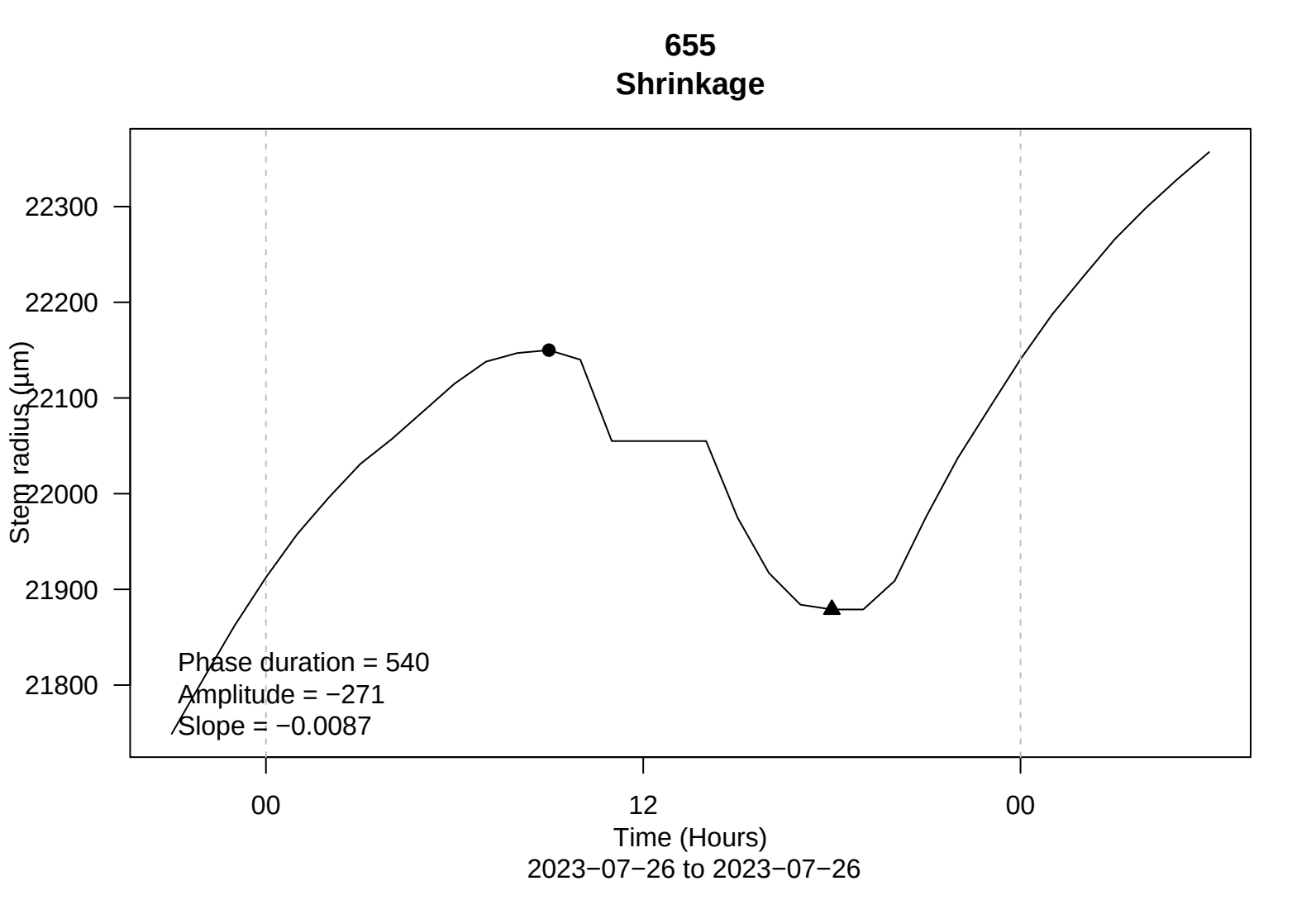

655
Expansion
21500
21400
21300
21200
21100
21000
Stem radius (µm)
Phase duration = 960
Amplitude = 536
Slope = 0.0108
12
00
12
Time (Hours)
2023−07−23 to 2023−07−24

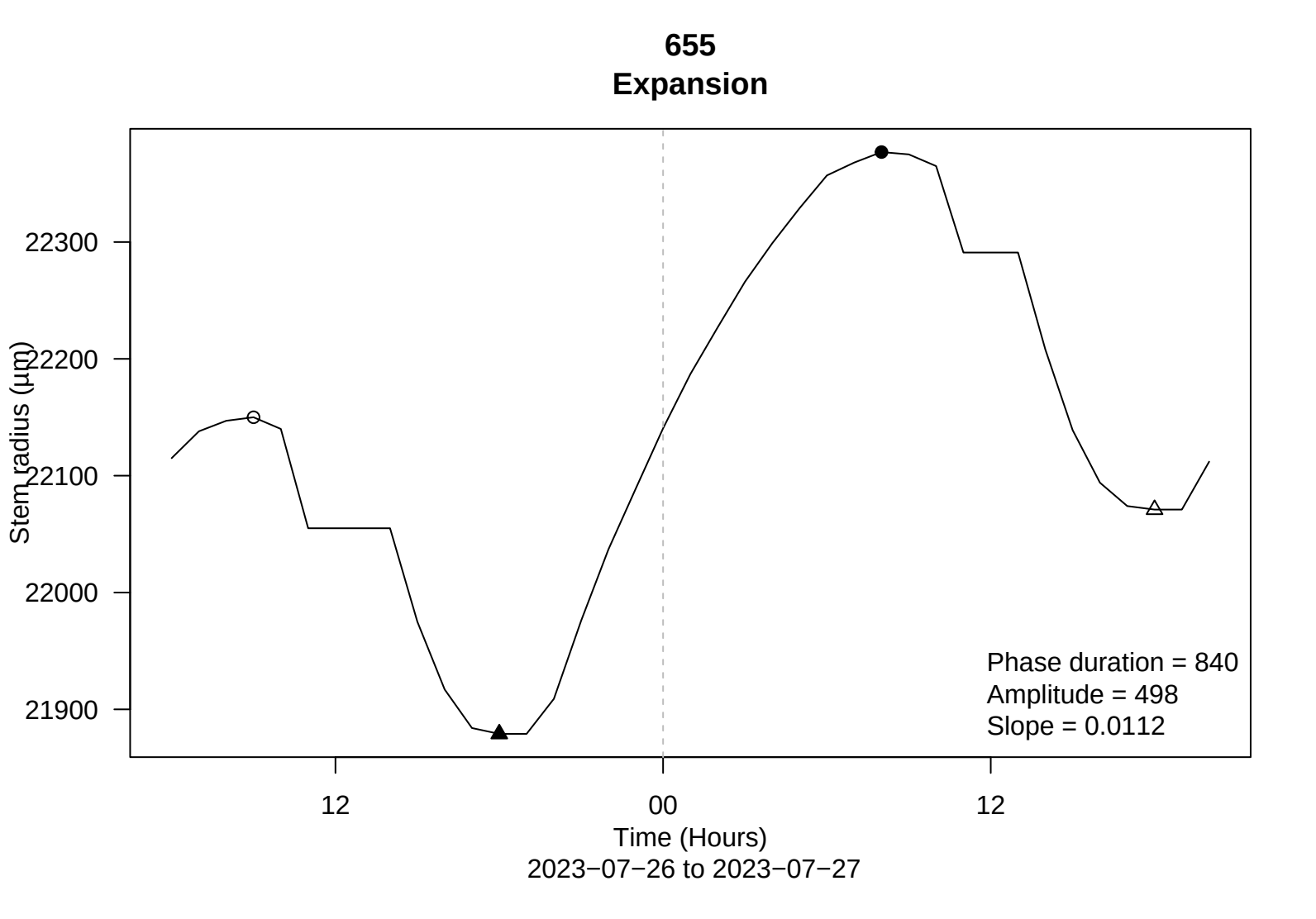

655
Shrinkage
21800
21600
21400
21200
Stem radius (µm)
Phase duration = 540
Amplitude = −178
Slope = −0.0058
00
12
00
Time (Hours)
2023−07−24 to 2023−07−24

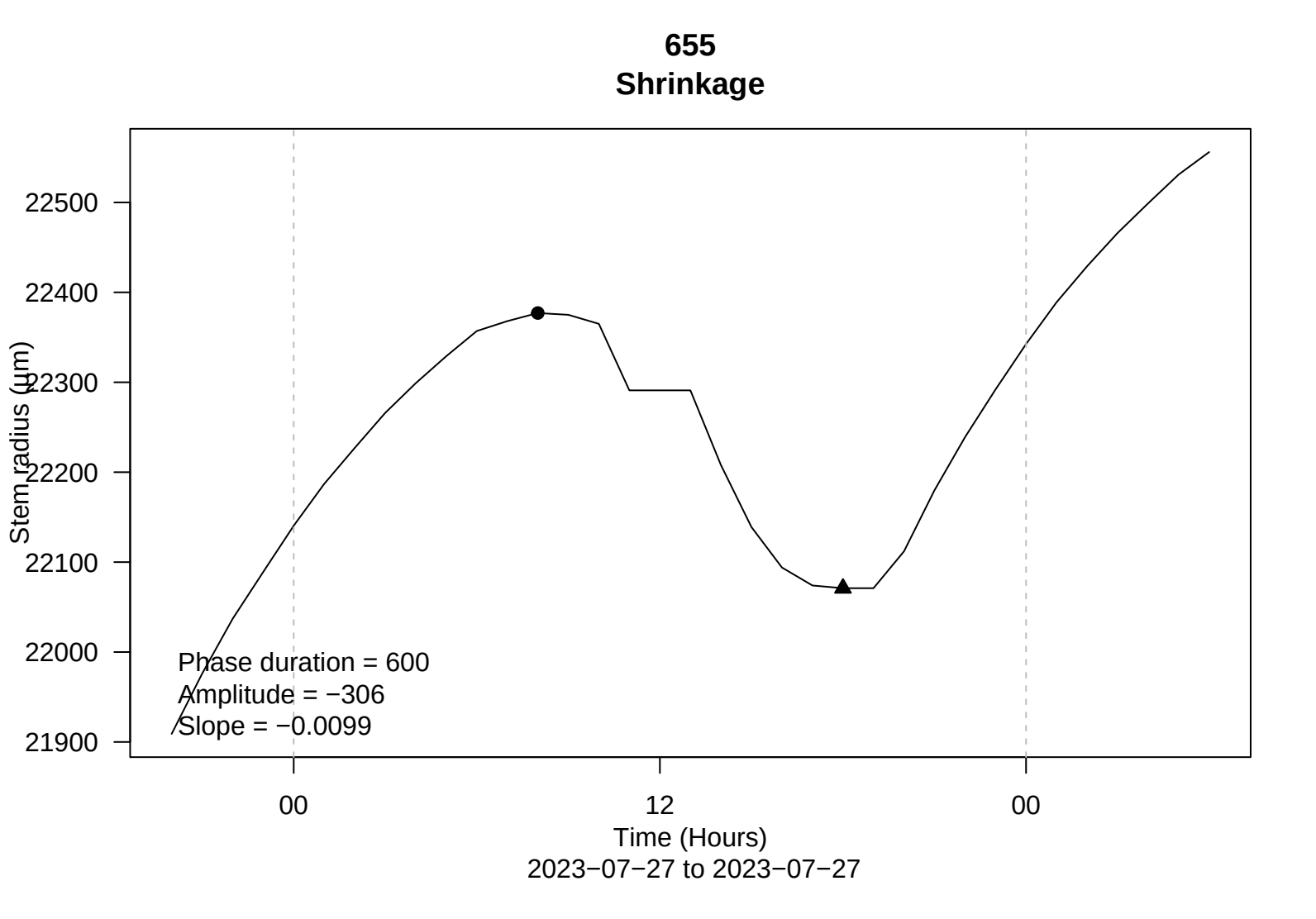

655
Expansion
21800
21700
21600
21500
21400
Stem radius (µm)
Phase duration = 840
Amplitude = 553
Slope = 0.012
12
00
12
Time (Hours)
2023−07−24 to 2023−07−25

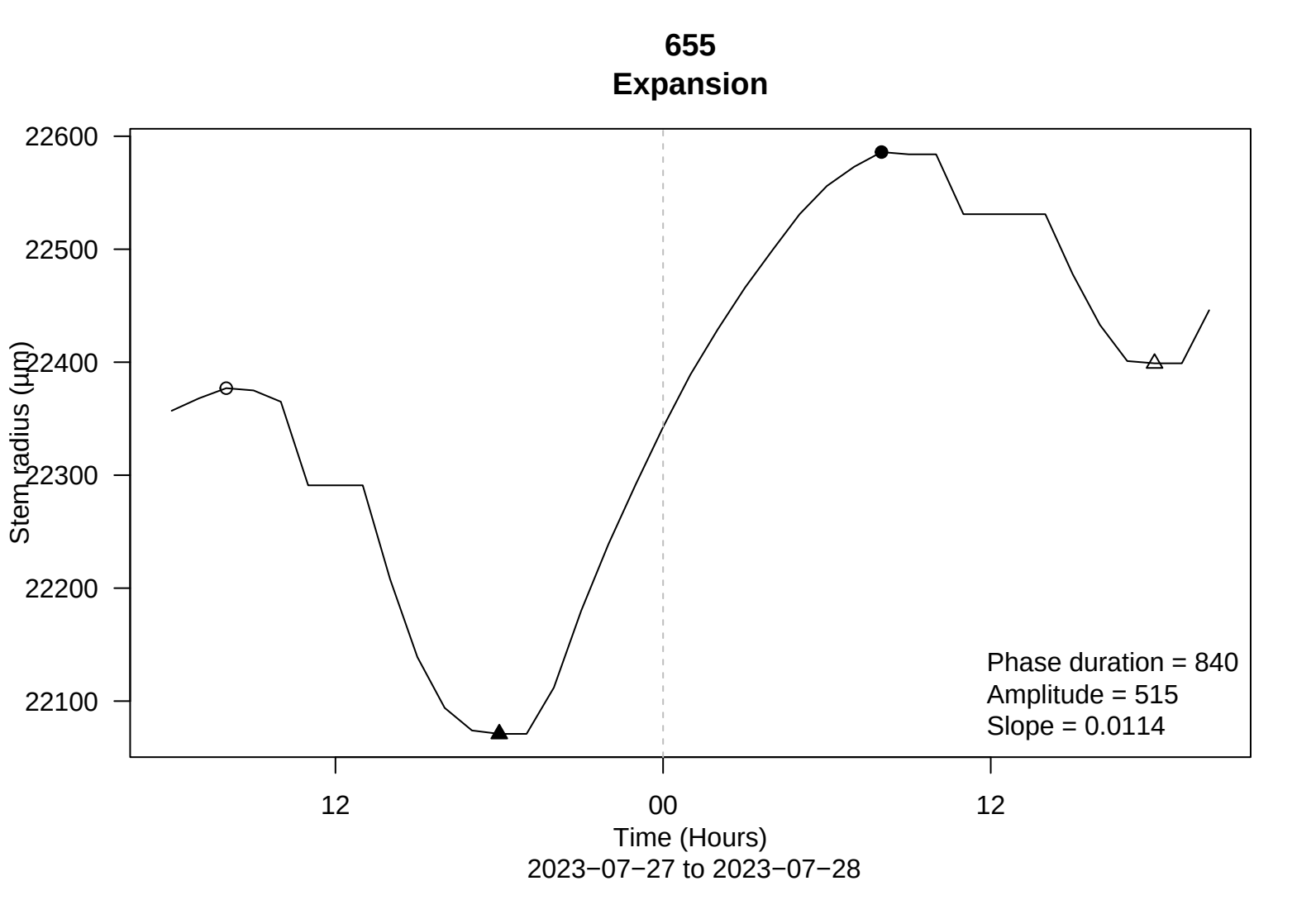

655
Shrinkage
22000
21800
21600
21400
Stem radius (µm)
Phase duration = 600
Amplitude = −279
Slope = −0.008
00
12
00
Time (Hours)
2023−07−25 to 2023−07−25

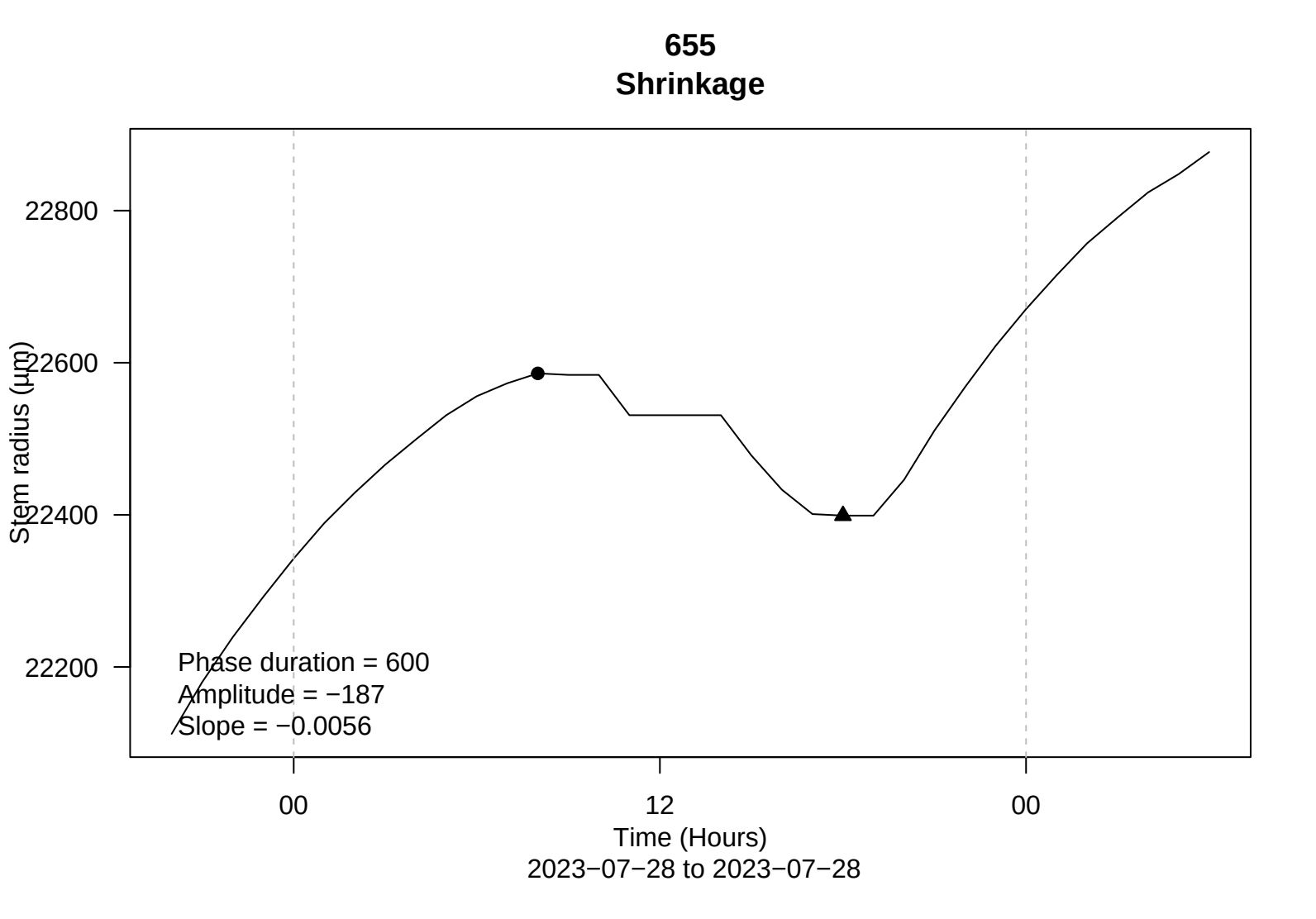

655
Expansion
22100
22000
21900
21800
21700
21600
Stem radius (µm)
Phase duration = 900
Amplitude = 553
Slope = 0.011
12
00
12
Time (Hours)
2023−07−25 to 2023−07−26

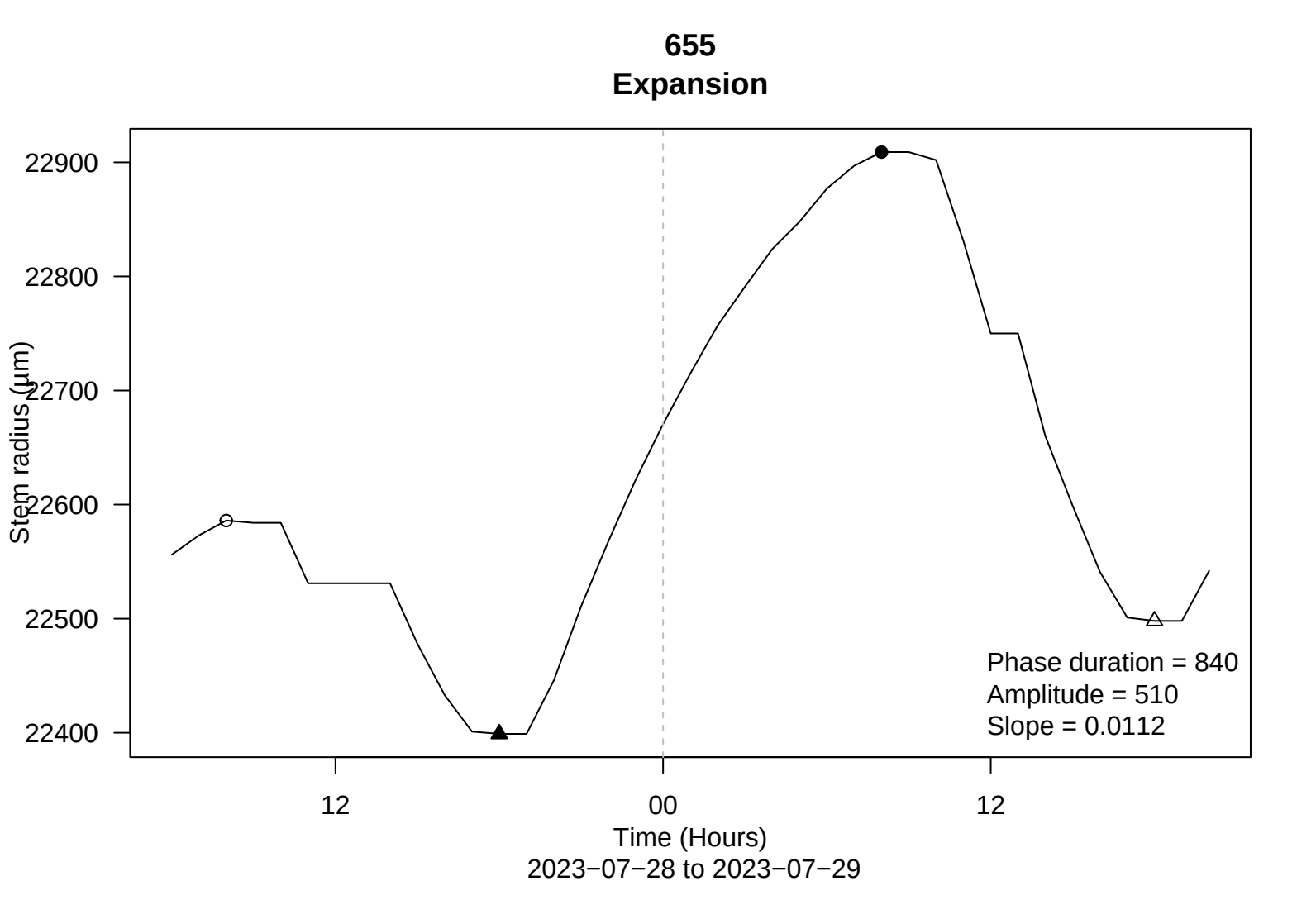

655
Shrinkage
22300
22200
22100
22000
21900
21800
Stem radius (µm)
Phase duration = 540
Amplitude = −271
Slope = −0.0087
00
12
00
Time (Hours)
2023−07−26 to 2023−07−26

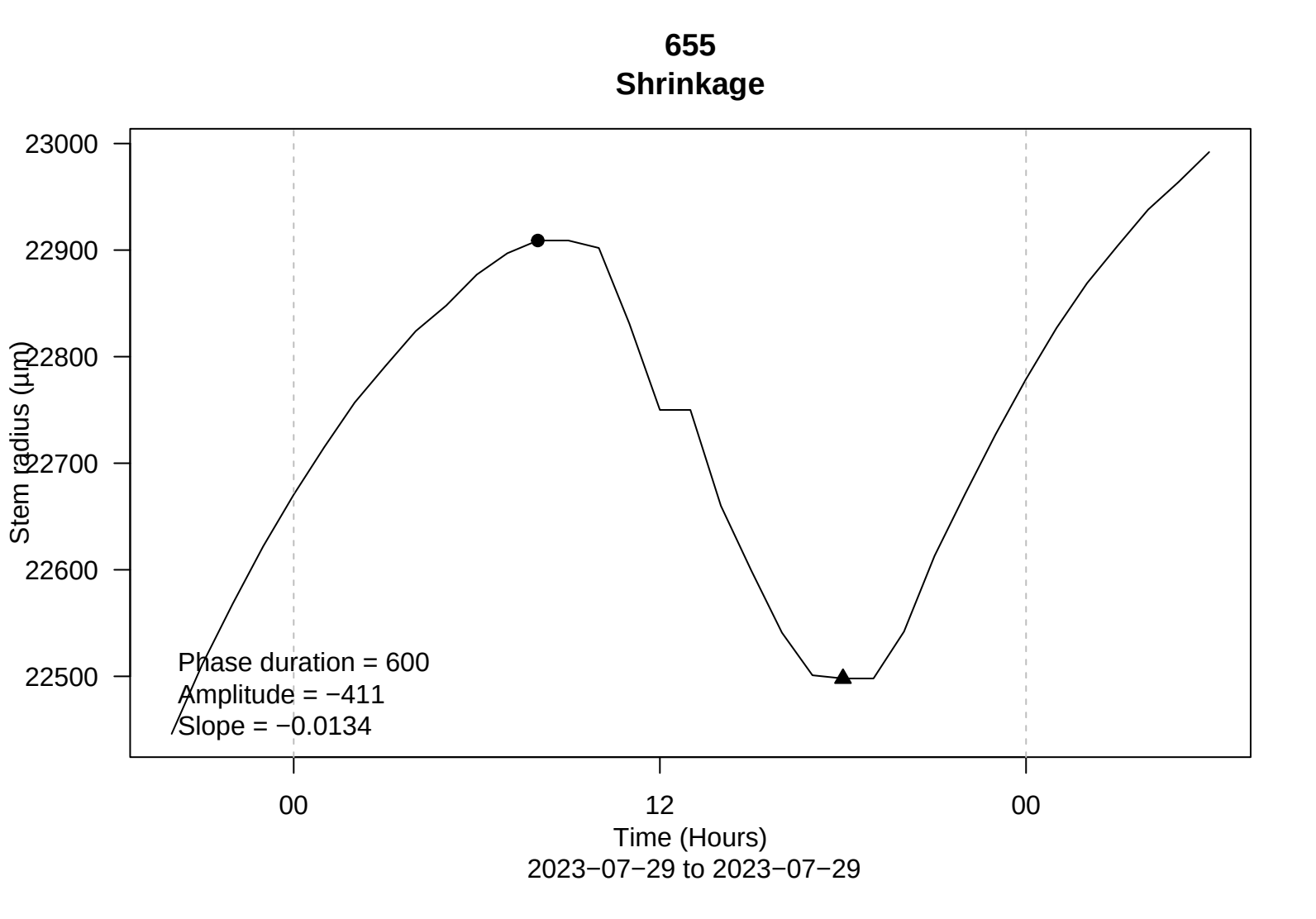

655
Expansion
22300
22200
22100
22000
21900
Stem radius (µm)
Phase duration = 840
Amplitude = 498
Slope = 0.0112
12
00
12
Time (Hours)
2023−07−26 to 2023−07−27

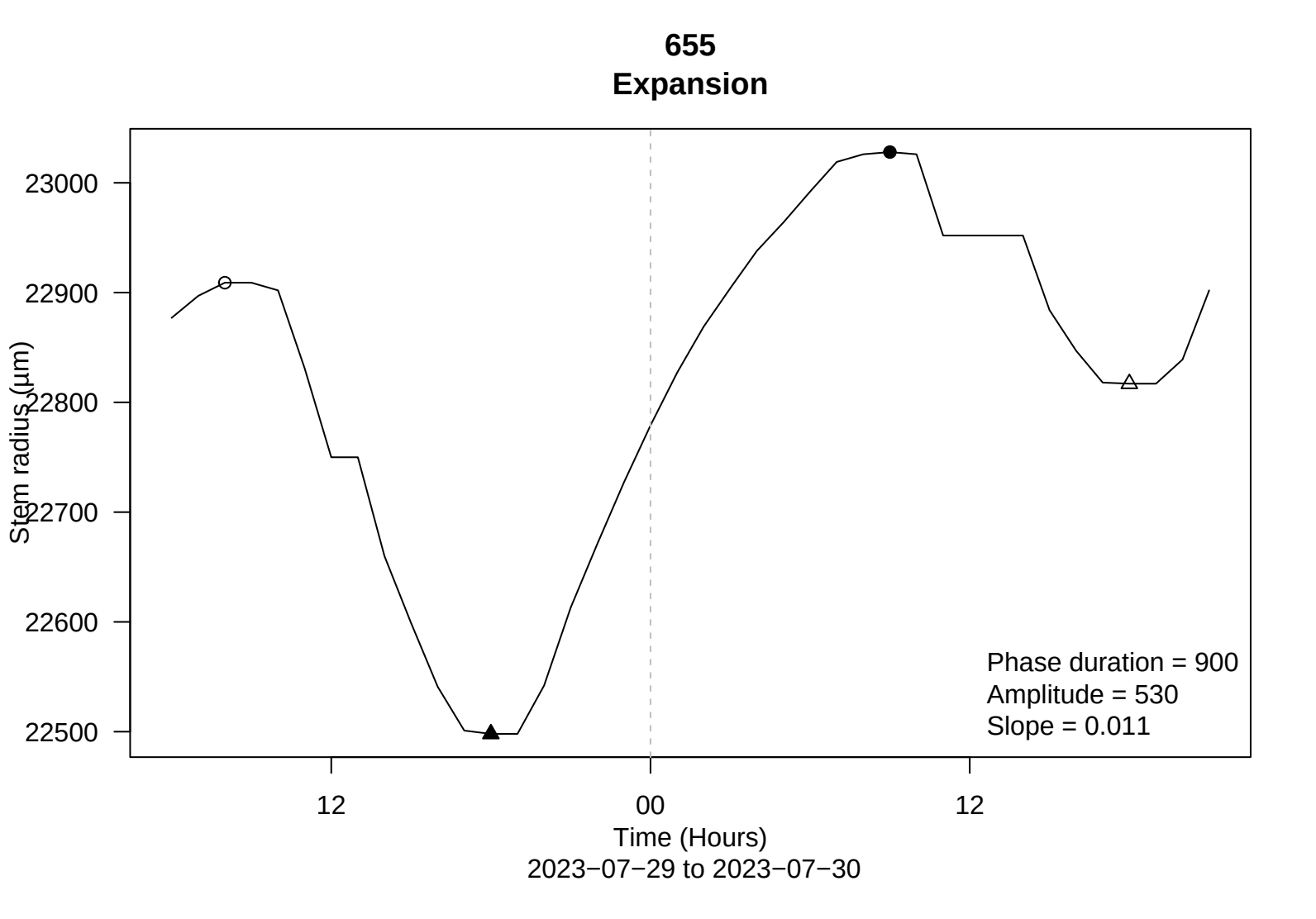

655
Shrinkage
22500
22400
22300
22200
22100
22000
21900
Stem radius (µm)
Phase duration = 600
Amplitude = −306
Slope = −0.0099
00
12
00
Time (Hours)
2023−07−27 to 2023−07−27

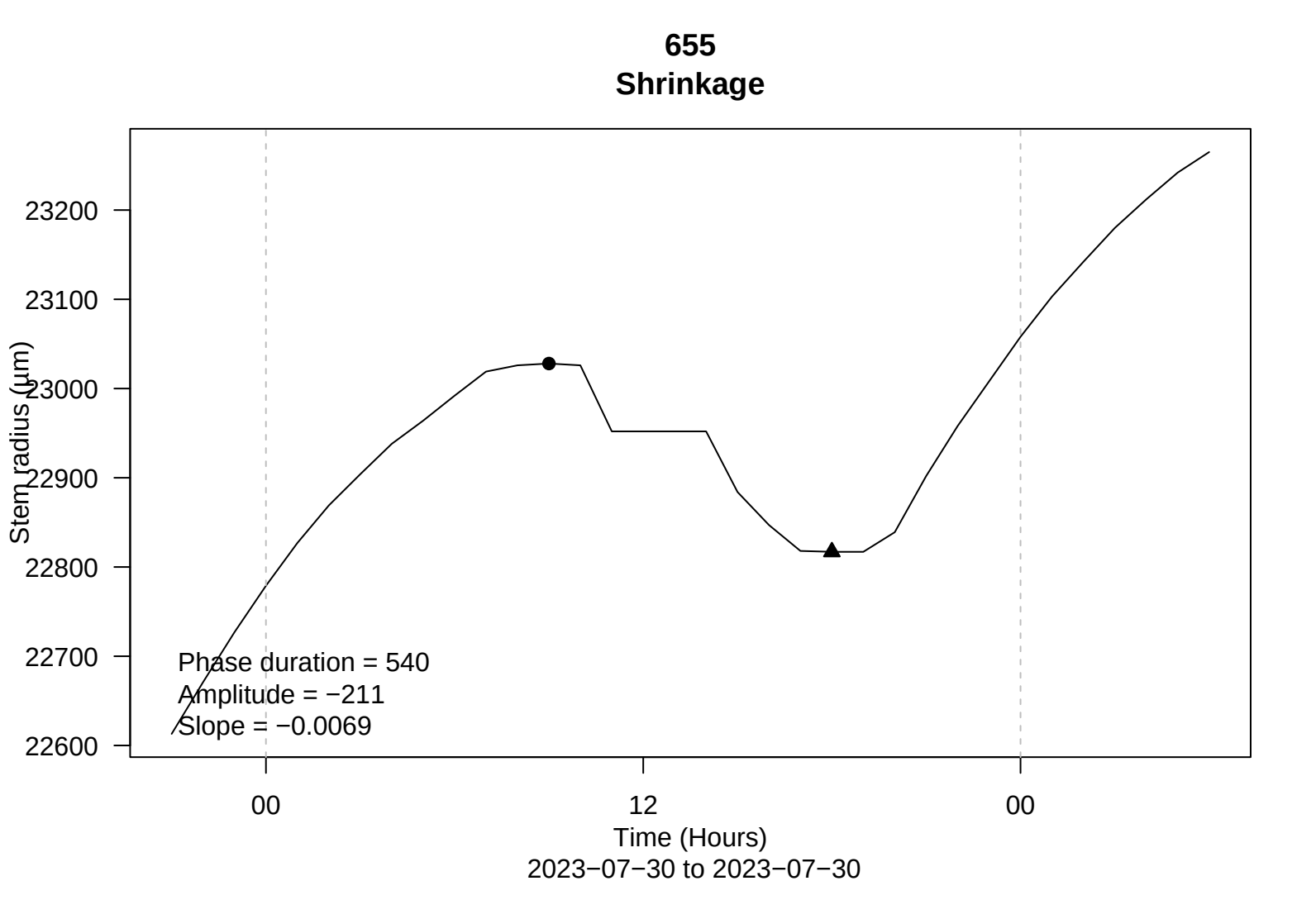

655
Expansion
22600
22500
22400
22300
22200
22100
Stem radius (µm)
Phase duration = 840
Amplitude = 515
Slope = 0.0114
12
00
12
Time (Hours)
2023−07−27 to 2023−07−28

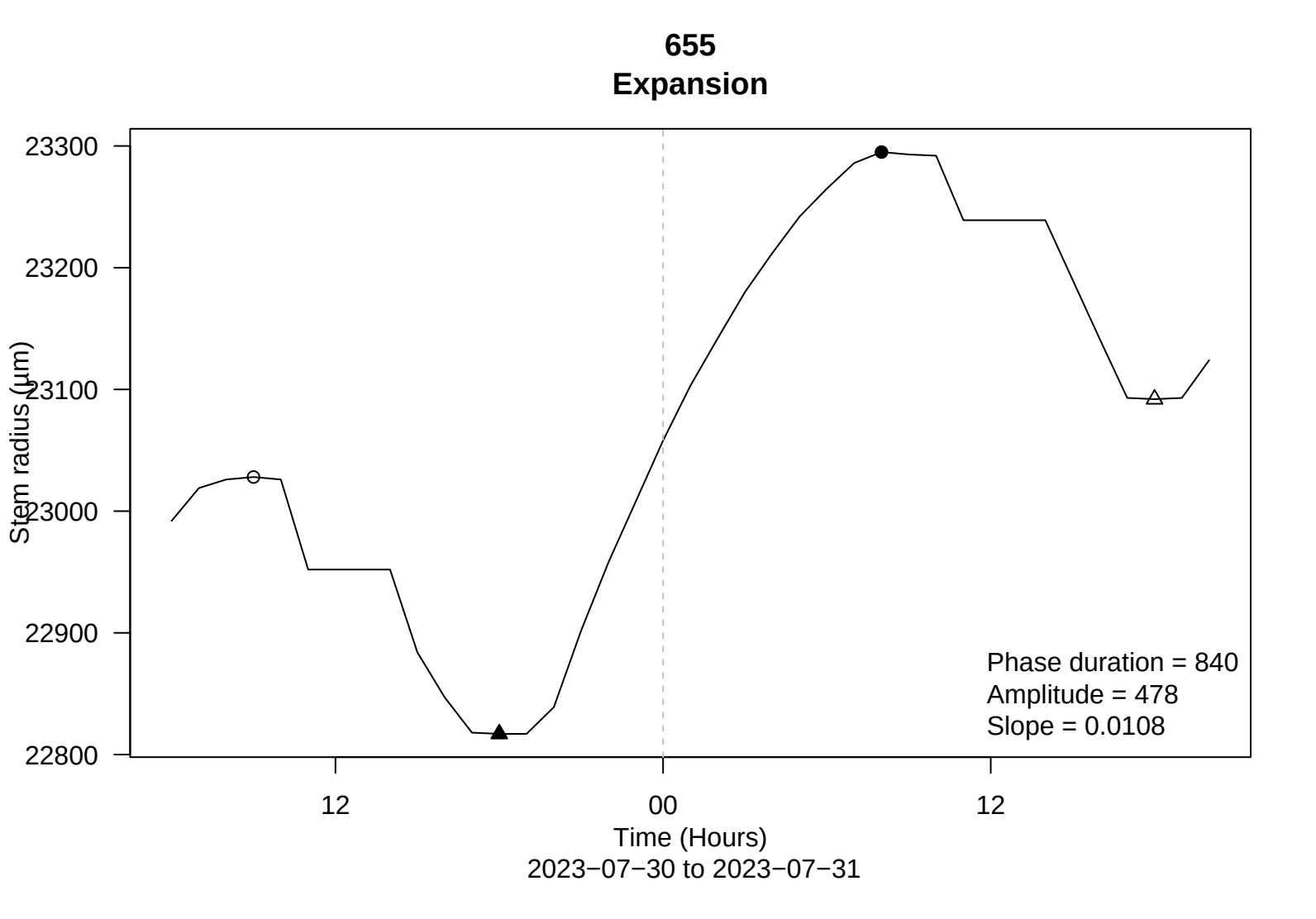

655
Shrinkage
22800
22600
22400
22200
Stem radius (µm)
Phase duration = 600
Amplitude = −187
Slope = −0.0056
00
12
00
Time (Hours)
2023−07−28 to 2023−07−28

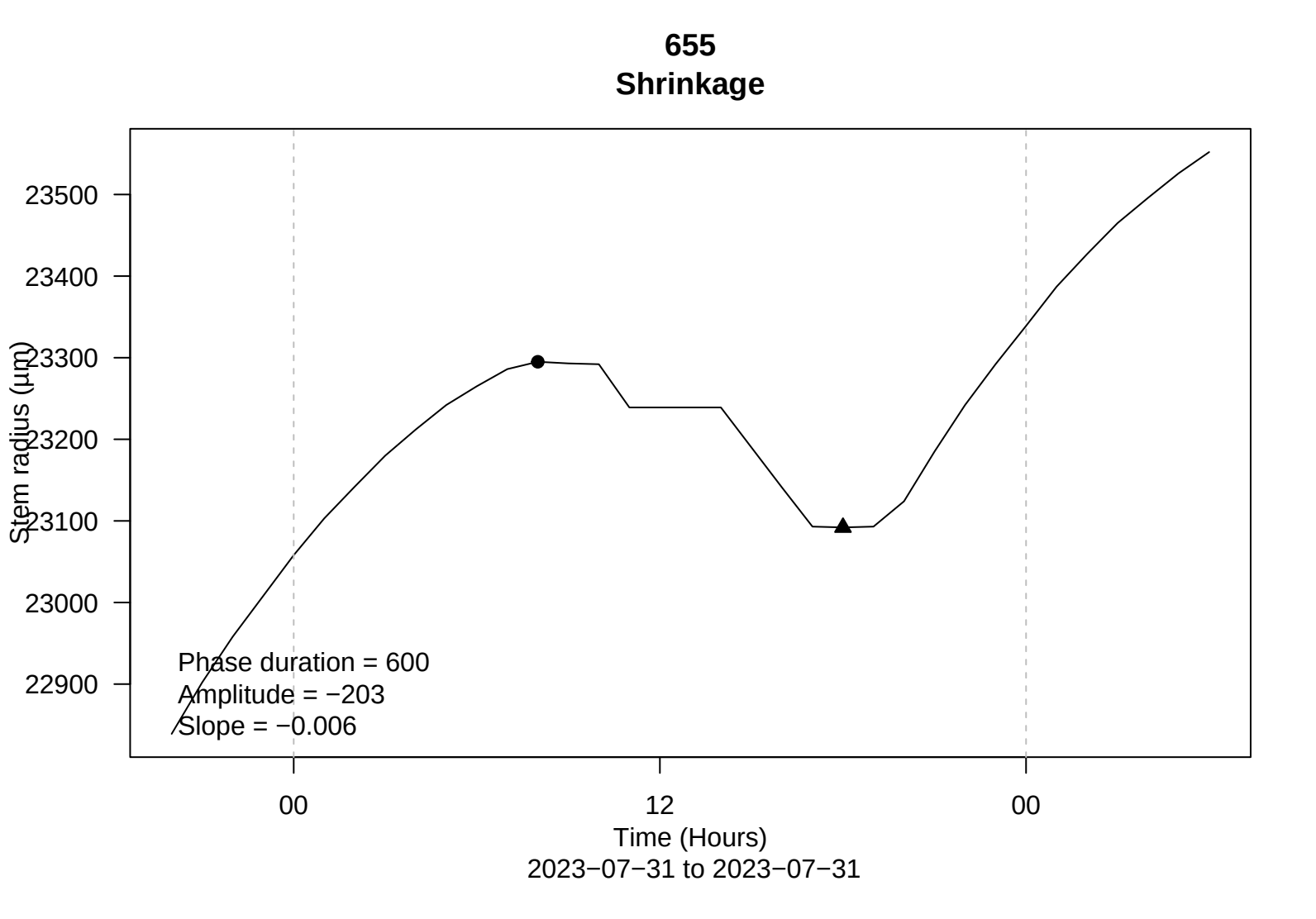

655
Expansion
22900
22800
22700
22600
22500
22400
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−28 to 2023−07−29
Phase duration = 840
Amplitude = 510
Slope = 0.0112

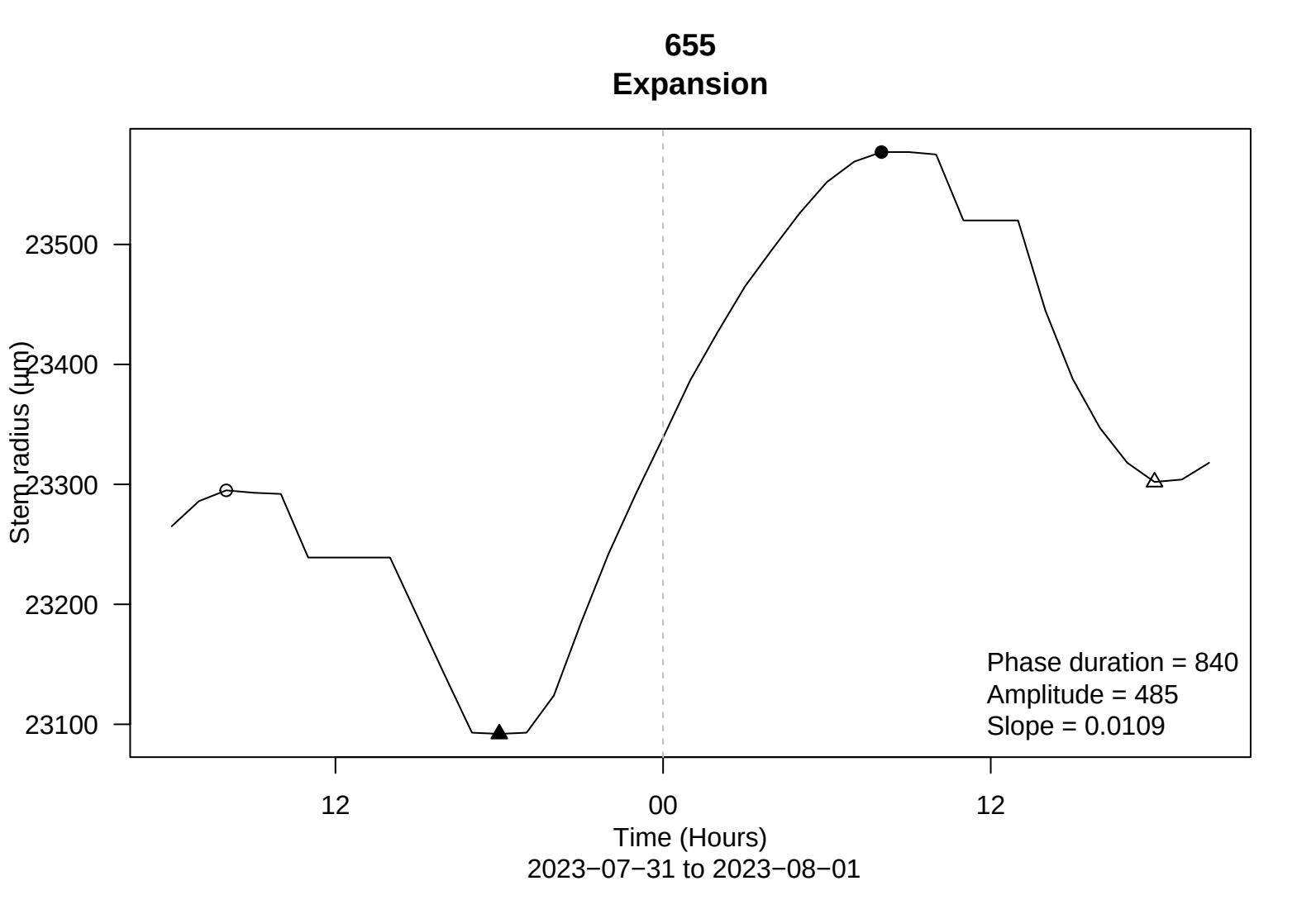

655
Shrinkage
23000
22900
22800
22700
22600
22500
Stem radius (µm)
Phase duration = 600
Amplitude = −411
Slope = −0.0134
00
12
00
Time (Hours)
2023−07−29 to 2023−07−29

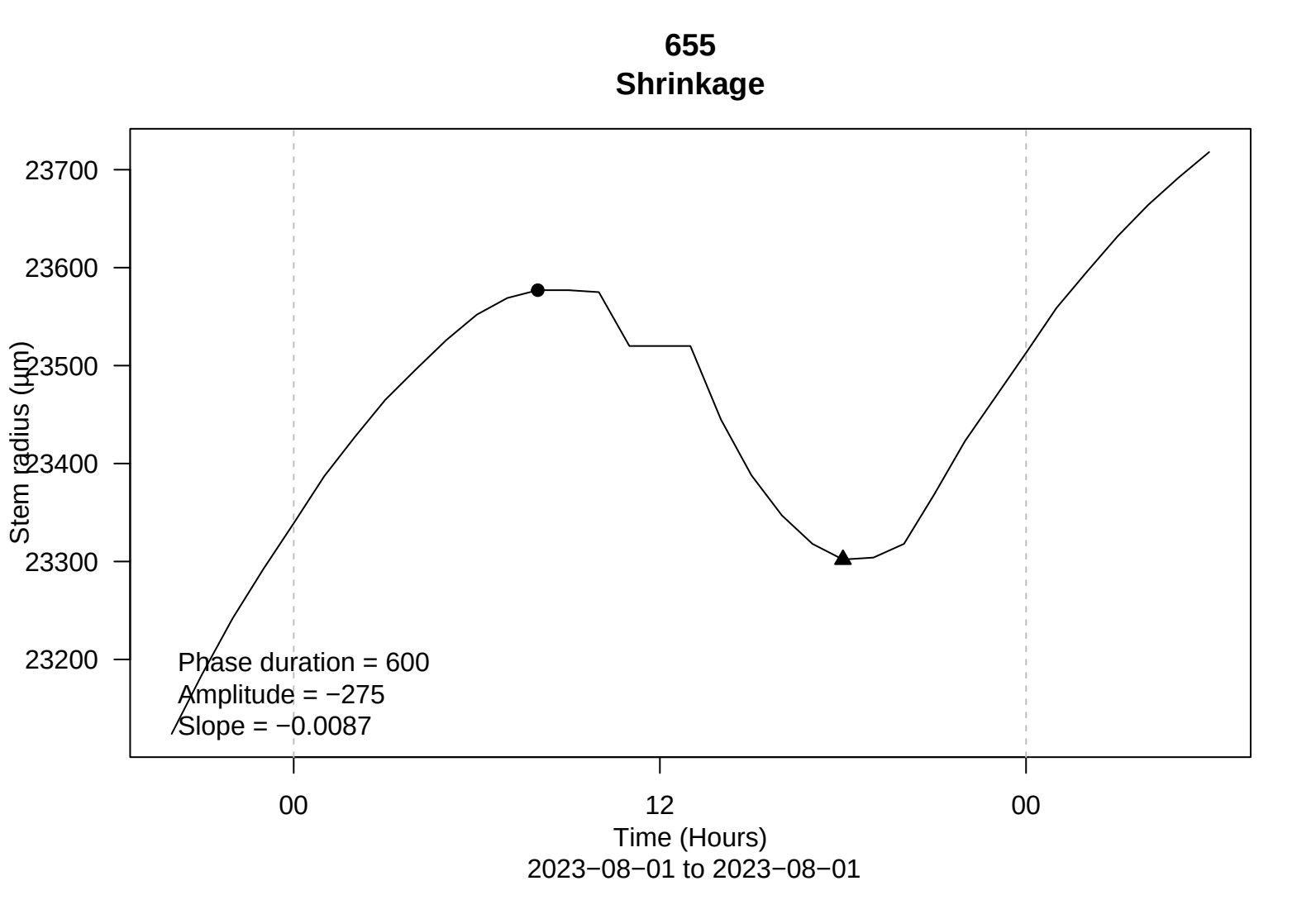

655
Expansion
23000
22900
22800
22700
22600
22500
Stem radius (µm)
Phase duration = 900
Amplitude = 530
Slope = 0.011
12
00
12
Time (Hours)
2023−07−29 to 2023−07−30

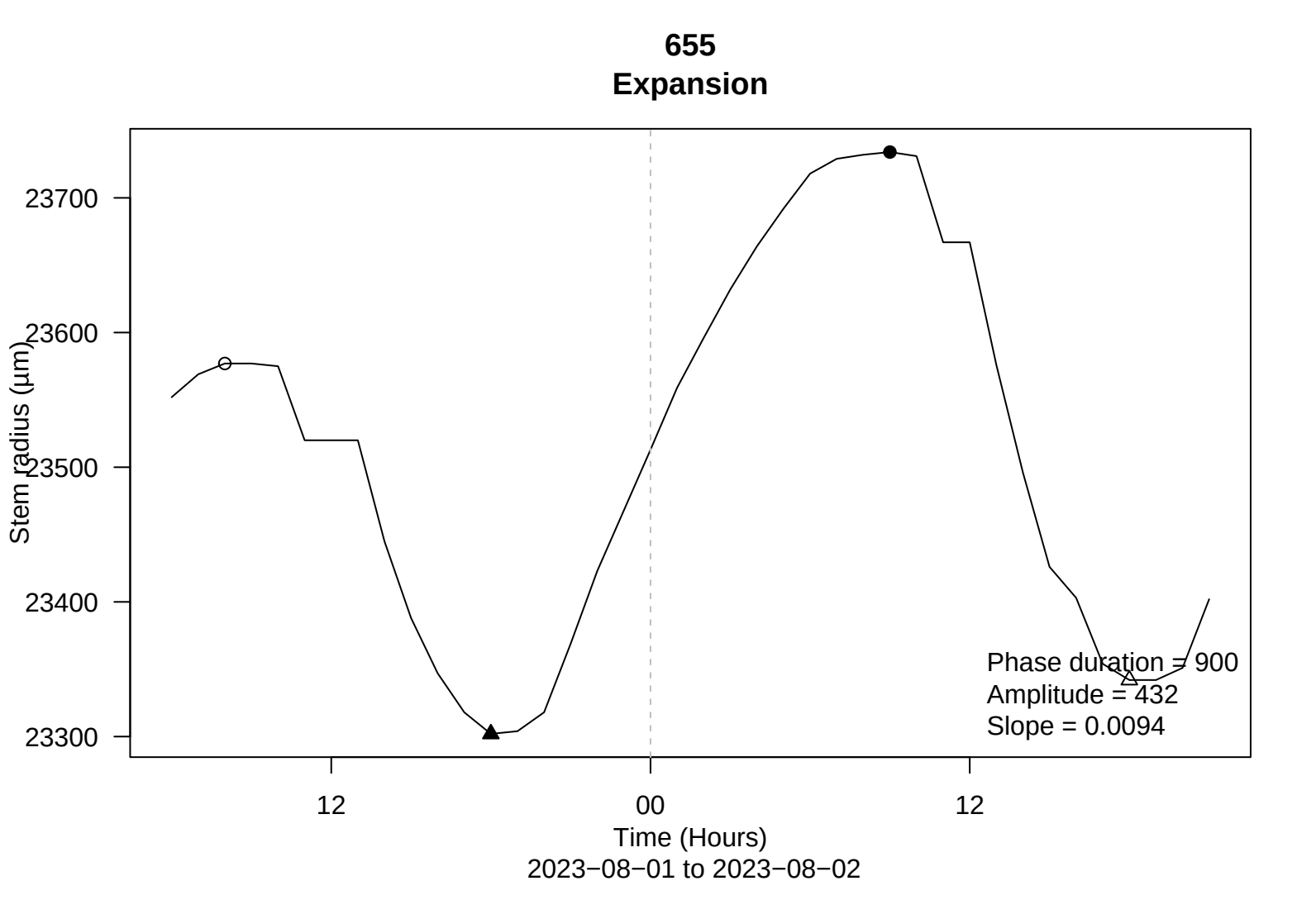

655
Shrinkage
23200
23100
23000
22900
22800
22700
22600
Stem radius (µm)
Phase duration = 540
Amplitude = −211
Slope = −0.0069
00
12
00
Time (Hours)
2023−07−30 to 2023−07−30

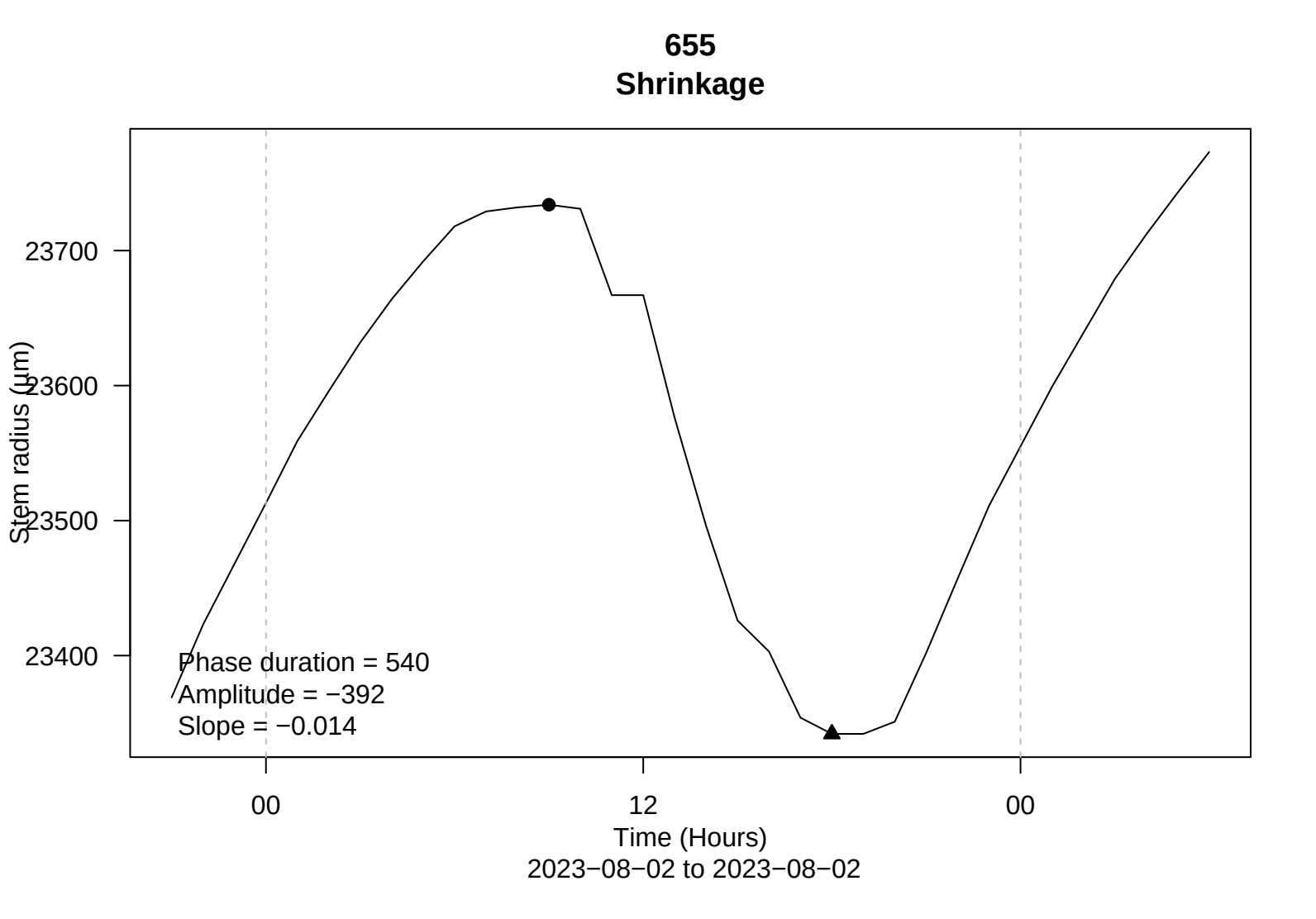

655
Expansion
23300
23200
23100
23000
22900
22800
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−30 to 2023−07−31
Phase duration = 840
Amplitude = 478
Slope = 0.0108

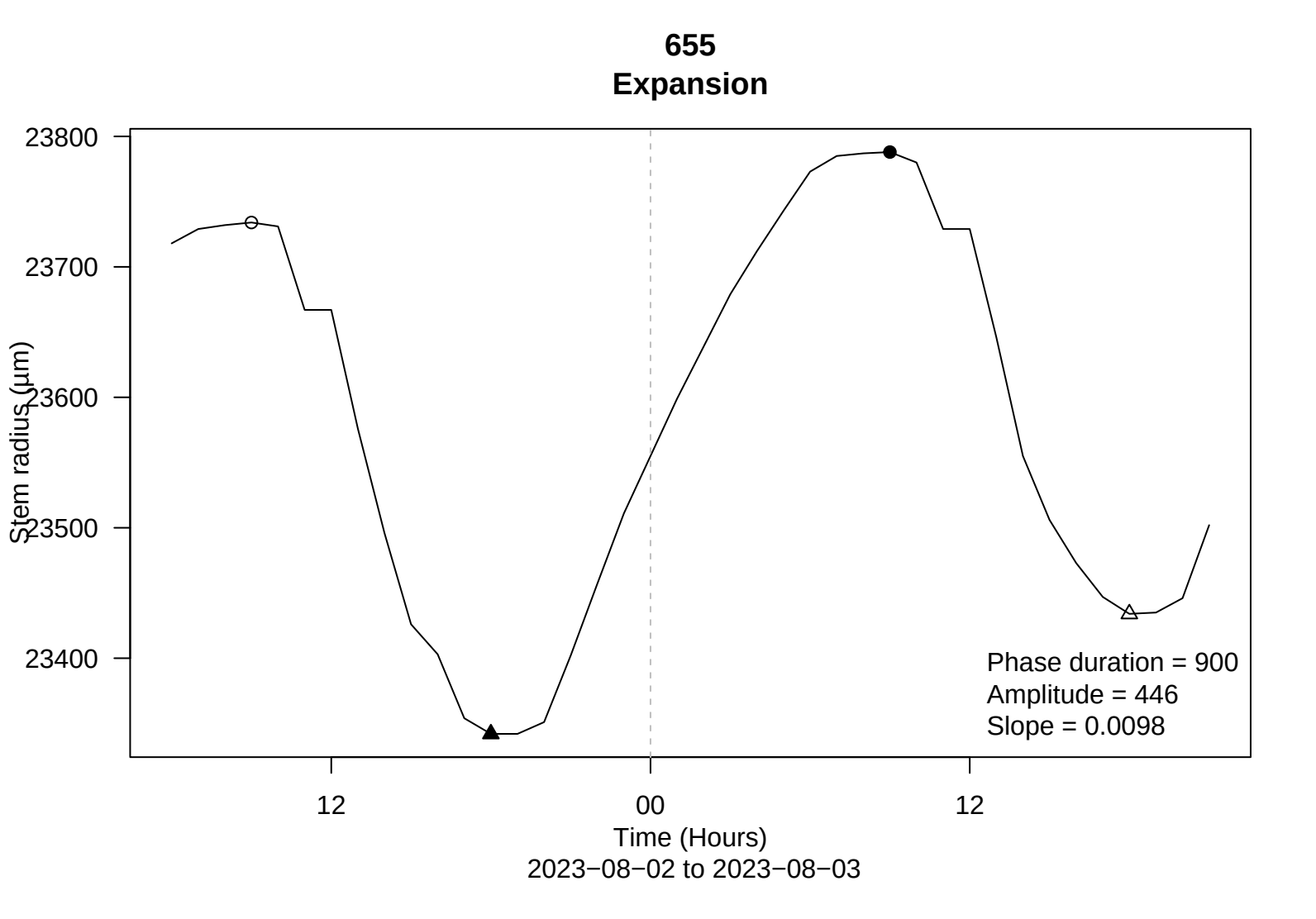

655
Shrinkage
23500
23400
23300
23200
23100
23000
22900
Stem radius (µm)
Phase duration = 600
Amplitude = −203
Slope = −0.006
00
12
00
Time (Hours)
2023−07−31 to 2023−07−31

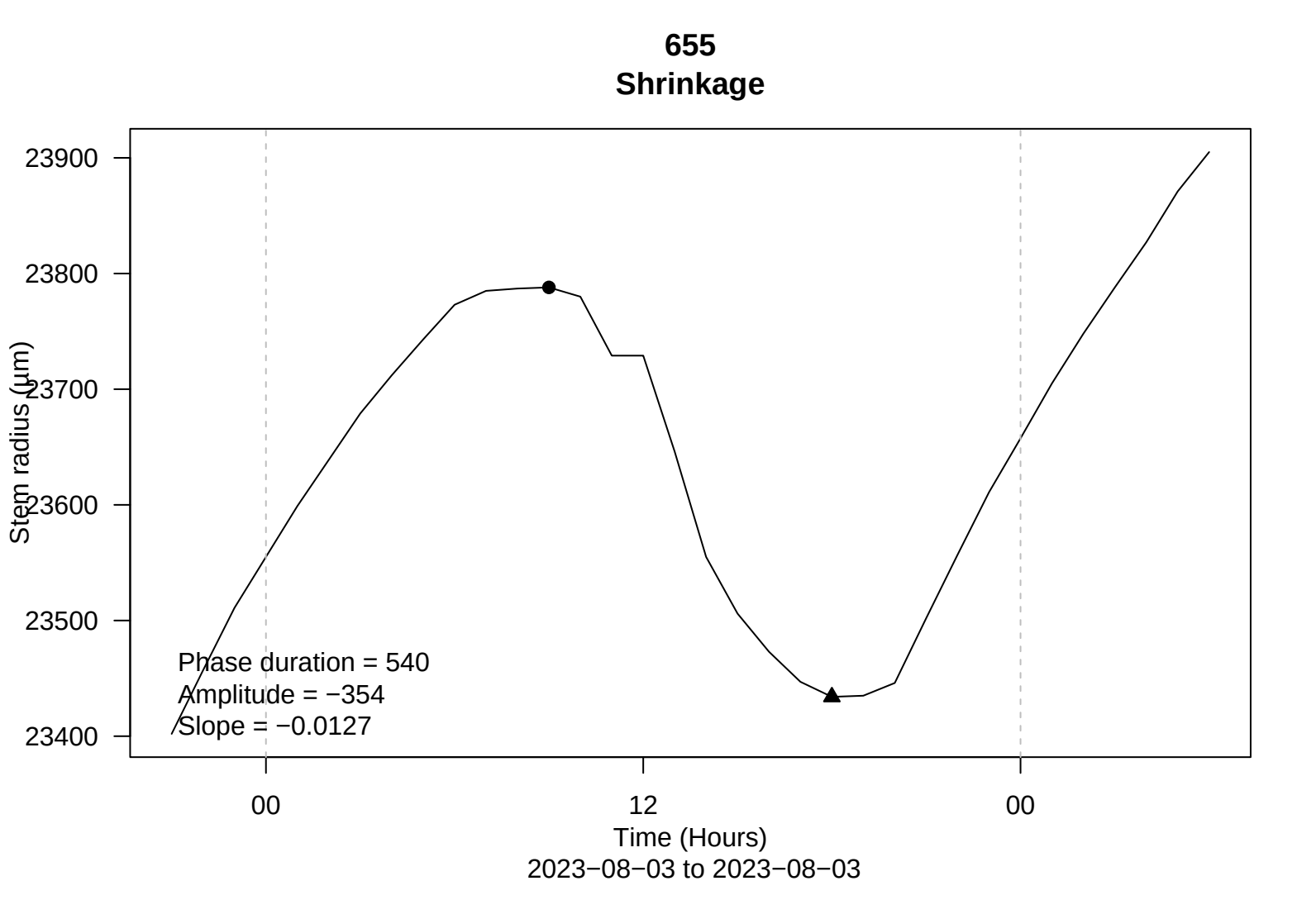

655
Expansion
23500
23400
23300
23200
23100
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−31 to 2023−08−01
Phase duration = 840
Amplitude = 485
Slope = 0.0109

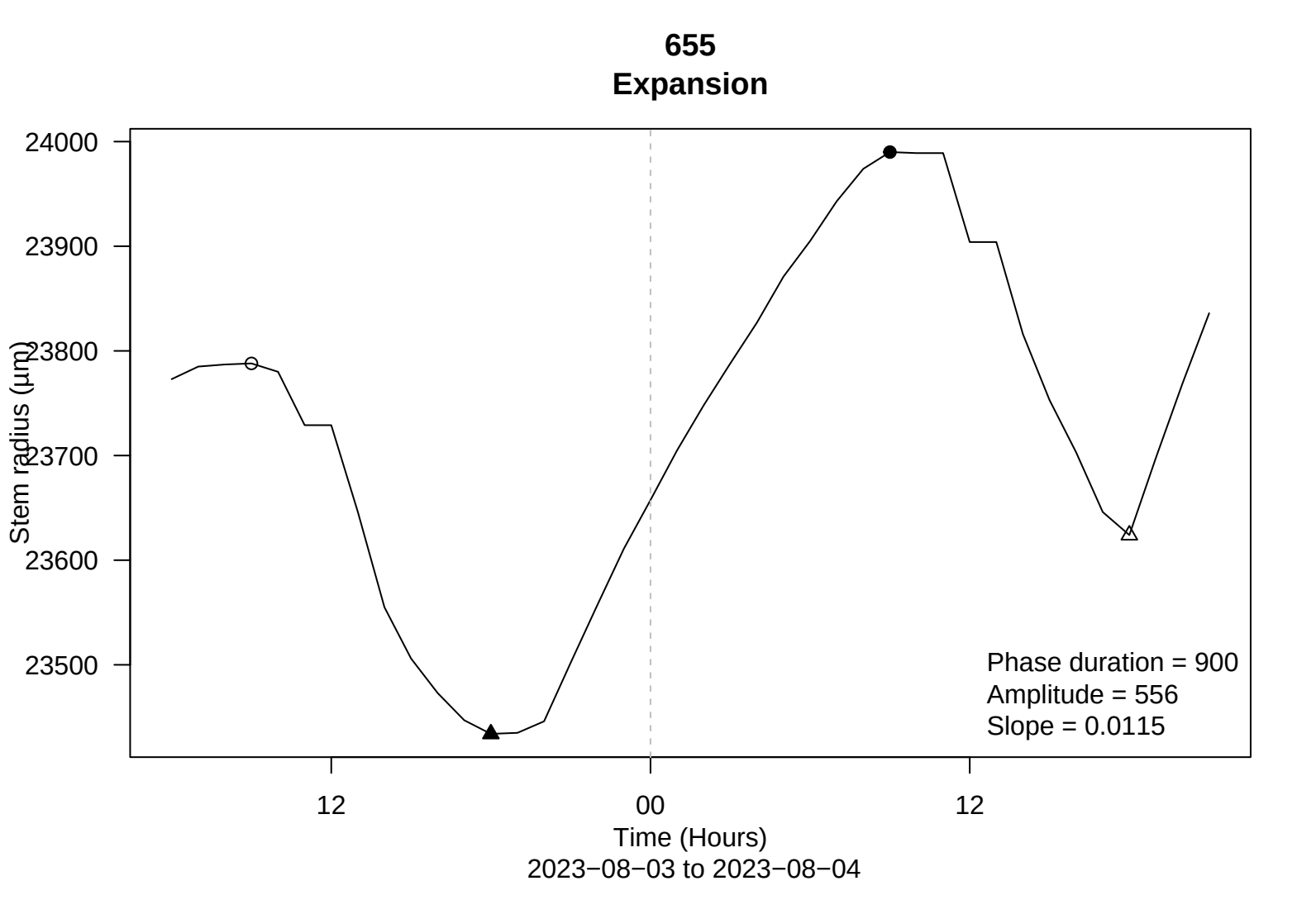

655
Shrinkage
23700
23600
23500
23400
23300
23200
Stem radius (µm)
Phase duration = 600
Amplitude = −275
Slope = −0.0087
00
12
00
Time (Hours)
2023−08−01 to 2023−08−01

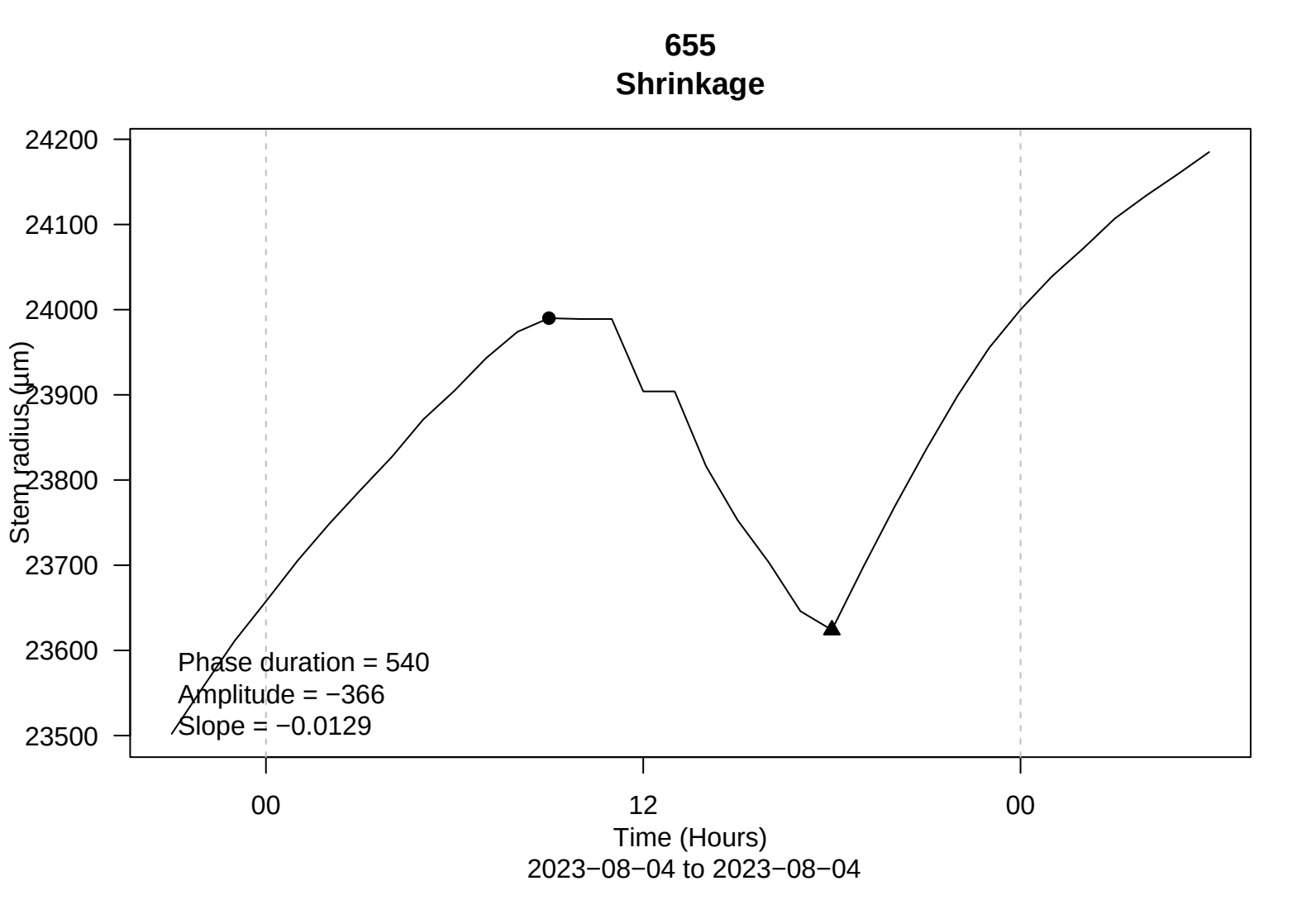

655
Expansion
23700
23600
23500
23400
23300
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−01 to 2023−08−02
Phase duration = 900
Amplitude = 432
Slope = 0.0094

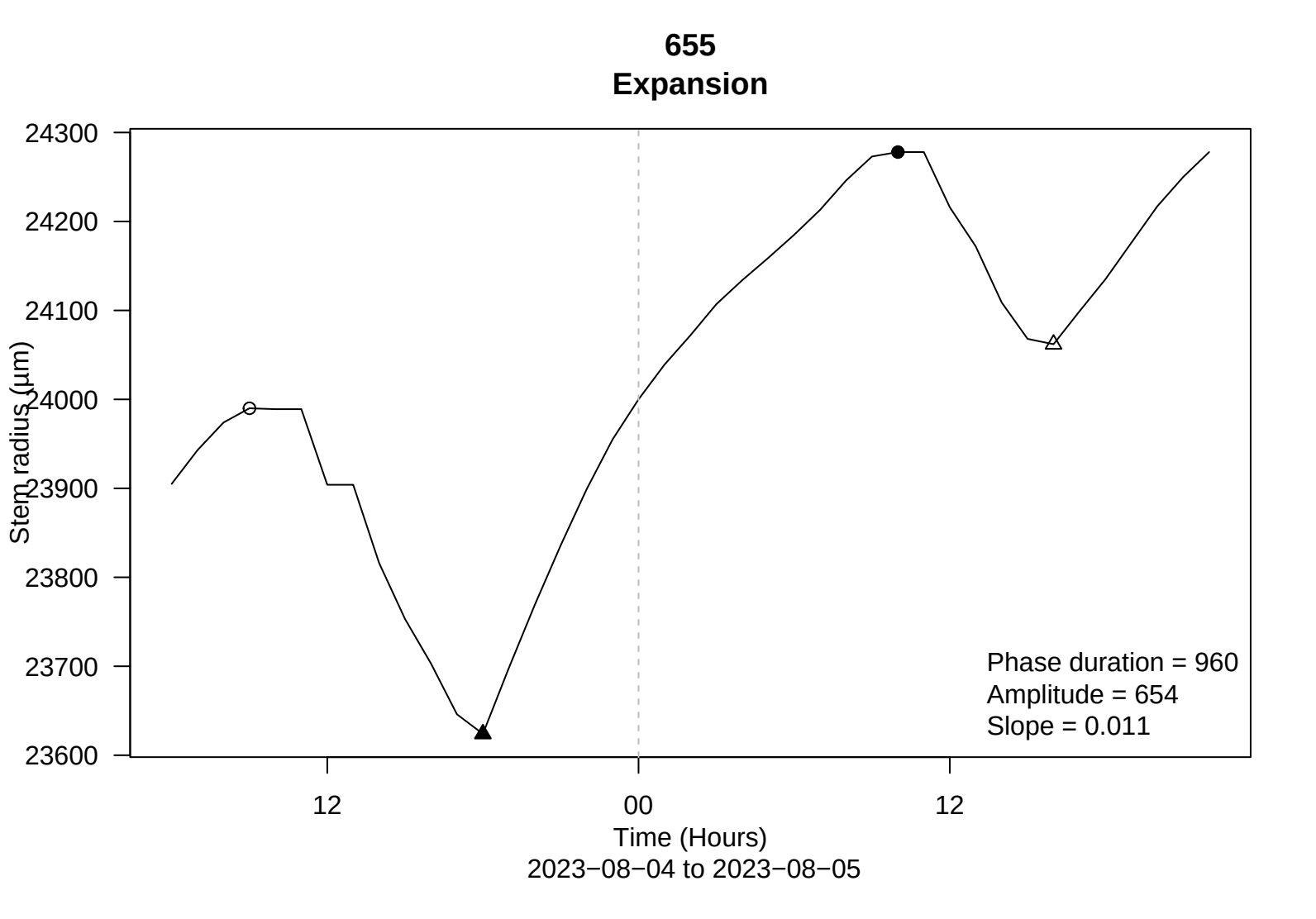

655
Shrinkage
23700
23600
23500
23400
Stem radius (µm)
Phase duration = 540
Amplitude = −392
Slope = −0.014
00
12
00
Time (Hours)
2023−08−02 to 2023−08−02

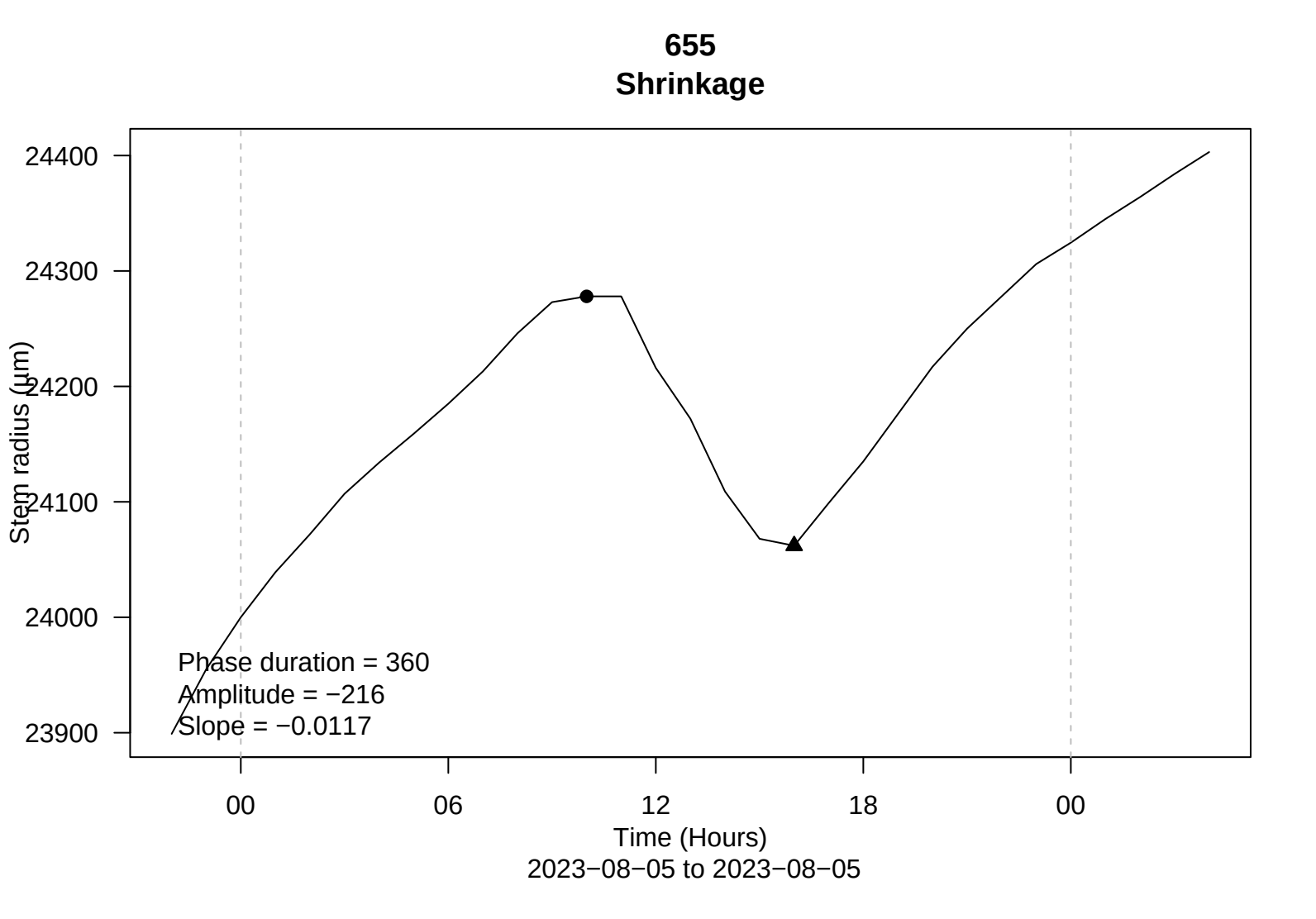

655
Expansion
23800
23700
23600
23500
23400
Stem radius (µm)
Phase duration = 900
Amplitude = 446
Slope = 0.0098
12
00
12
Time (Hours)
2023−08−02 to 2023−08−03

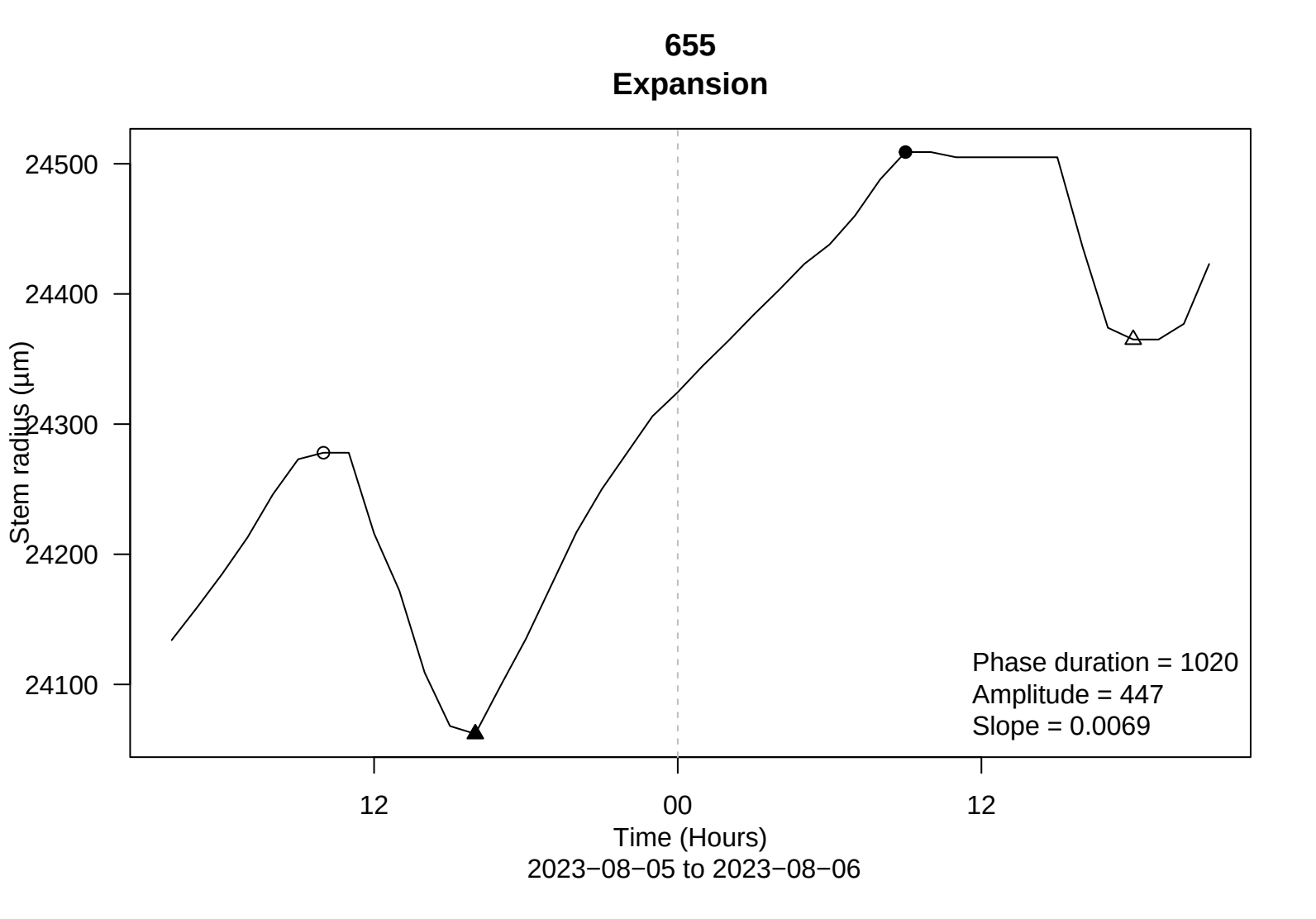

655
Shrinkage
23900
23800
23700
23600
23500
23400
Stem radius (µm)
Phase duration = 540
Amplitude = −354
Slope = −0.0127
00
12
00
Time (Hours)
2023−08−03 to 2023−08−03

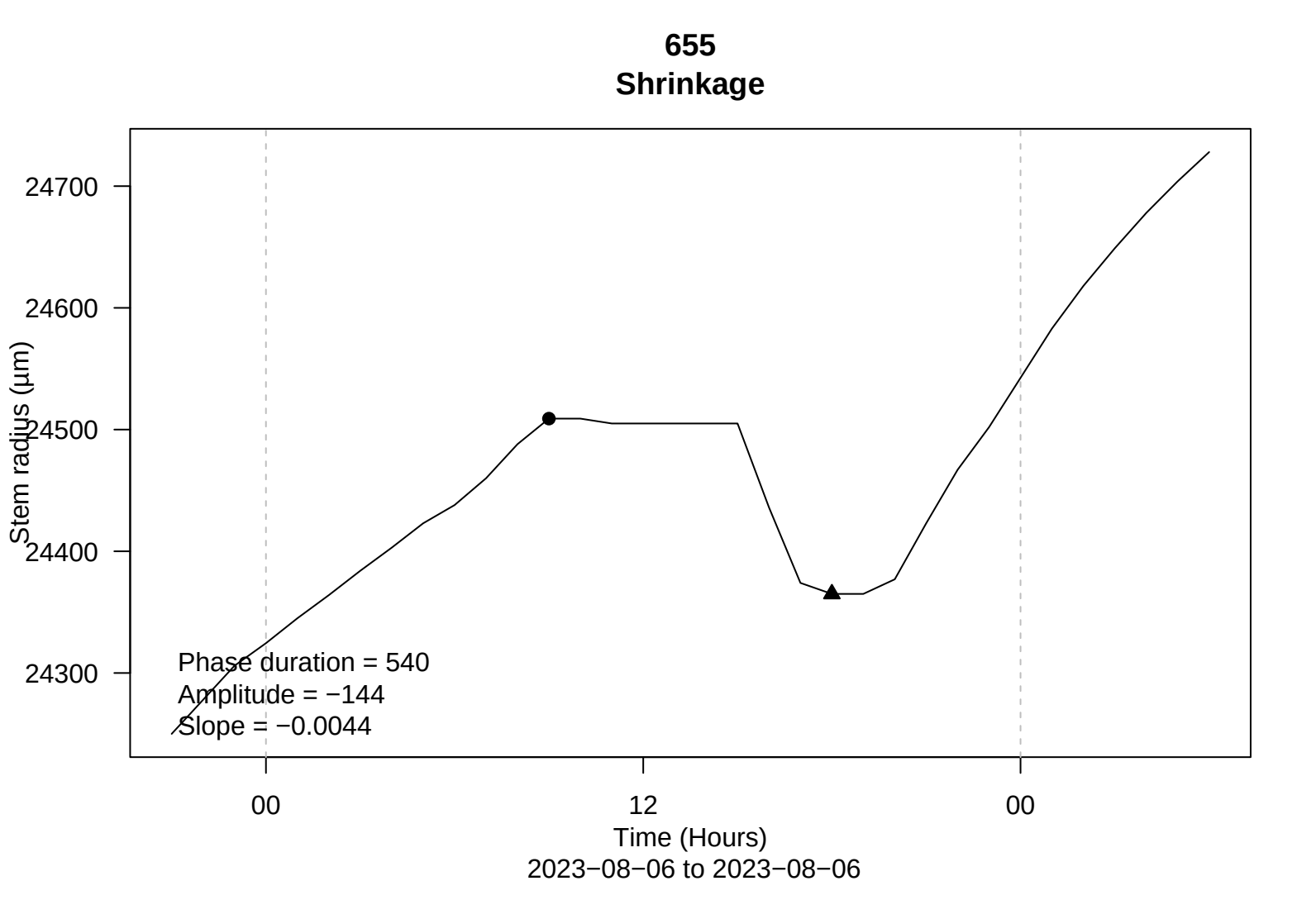

655
Expansion
24000
23900
23800
23700
23600
23500
Stem radius (µm)
Phase duration = 900
Amplitude = 556
Slope = 0.0115
12
00
12
Time (Hours)
2023−08−03 to 2023−08−04

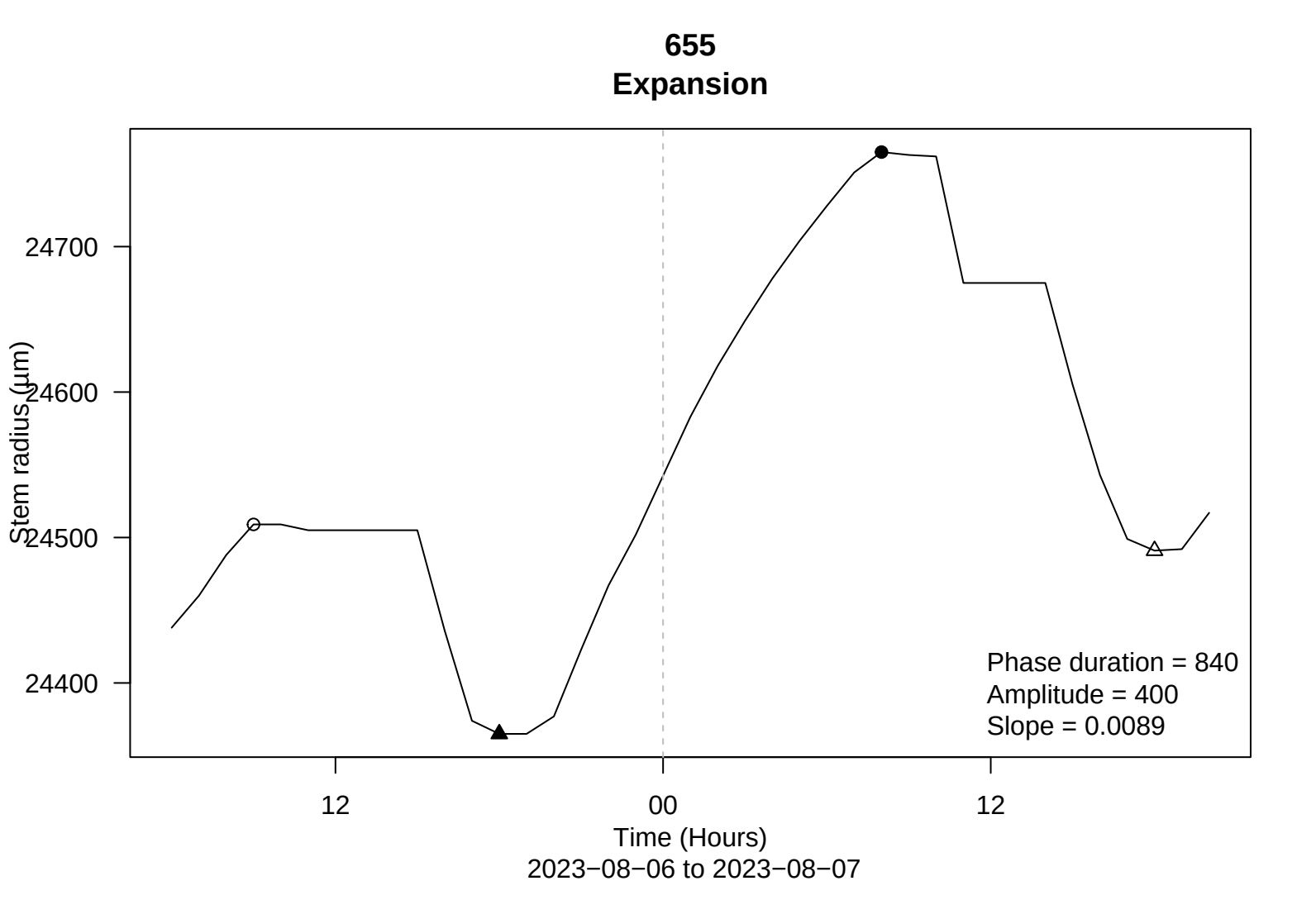

655
Shrinkage
24200
24100
24000
23900
23800
23700
23600
23500
Stem radius (µm)
Phase duration = 540
Amplitude = −366
Slope = −0.0129
00
12
00
Time (Hours)
2023−08−04 to 2023−08−04

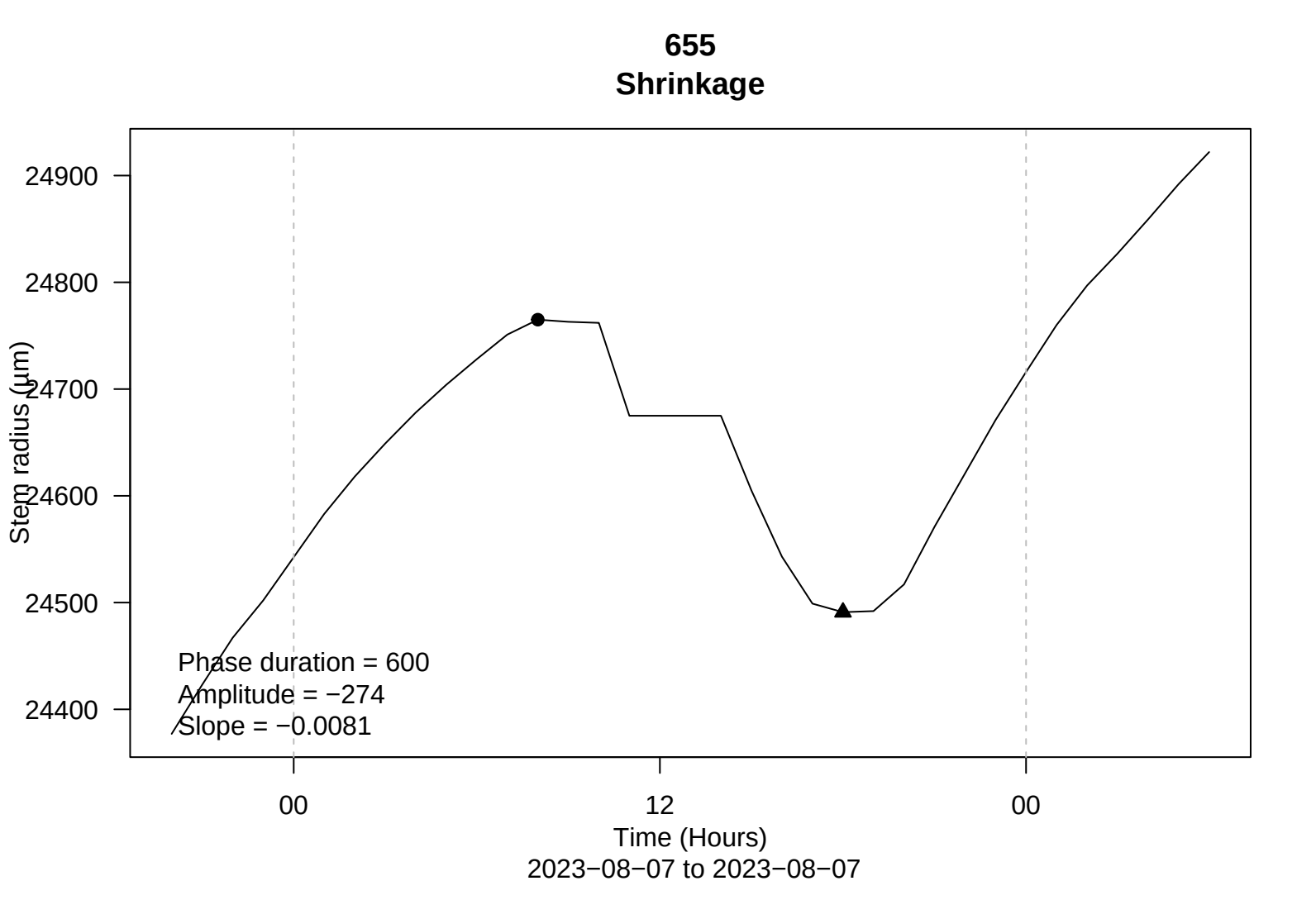

655
Expansion
24300
24200
24100
24000
23900
23800
23700
23600
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−04 to 2023−08−05
Phase duration = 960
Amplitude = 654
Slope = 0.011

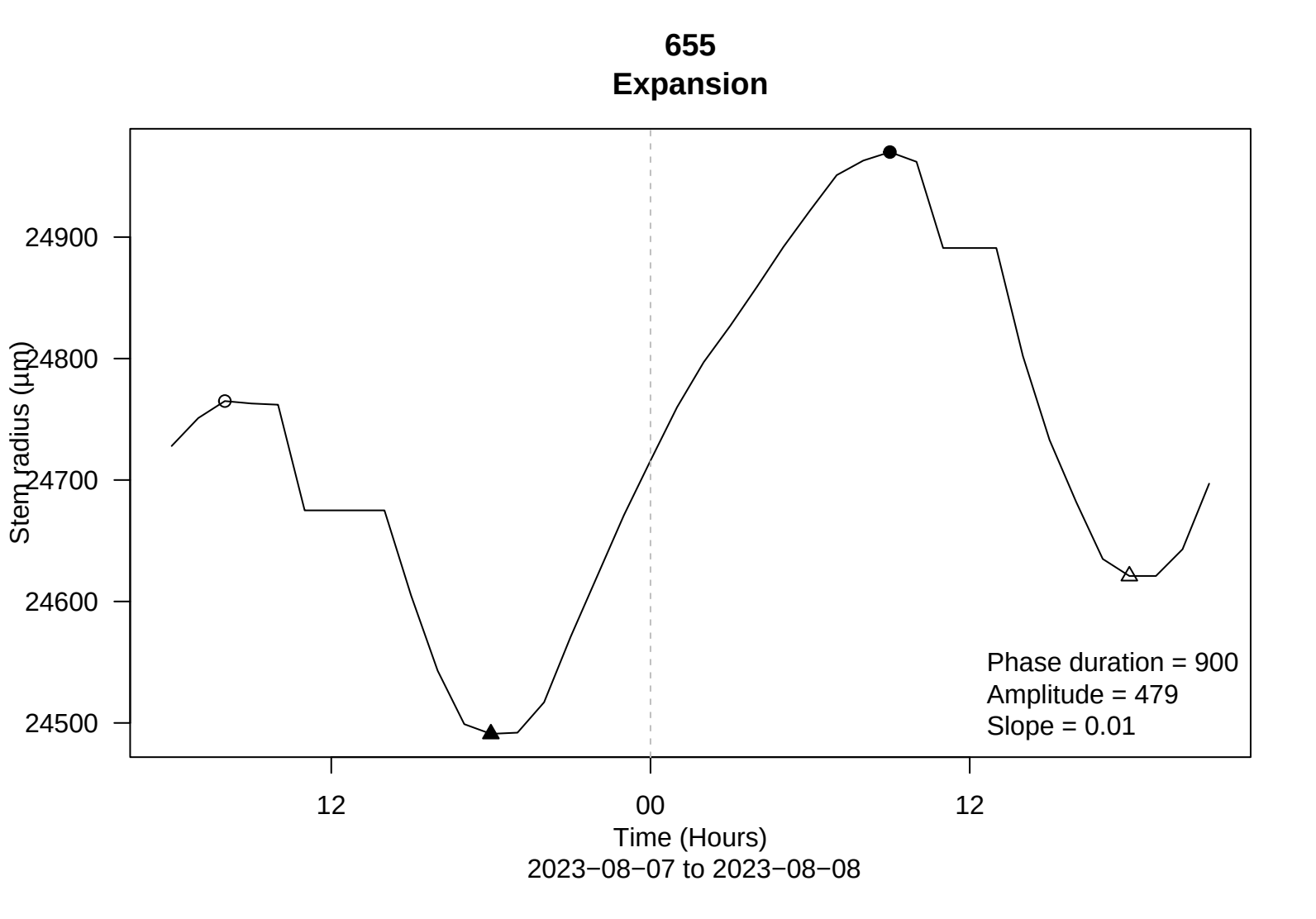

655
Shrinkage
24400
24300
24200
24100
24000
23900
Stem radius (µm)
Phase duration = 360
Amplitude = −216
Slope = −0.0117
00
06
12
18
00
Time (Hours)
2023−08−05 to 2023−08−05

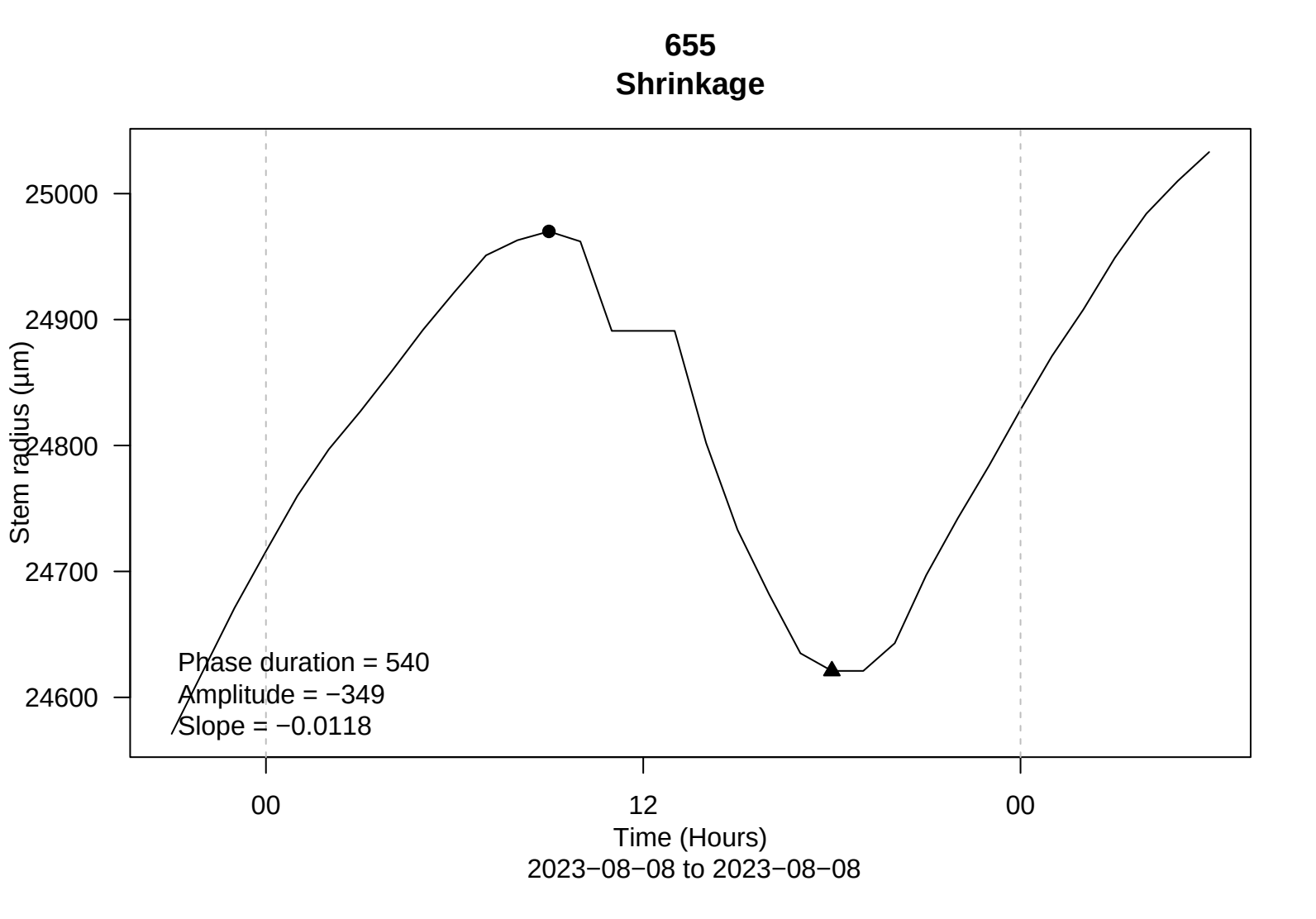

655
Expansion
24500
24400
24300
24200
24100
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−05 to 2023−08−06
Phase duration = 1020
Amplitude = 447
Slope = 0.0069

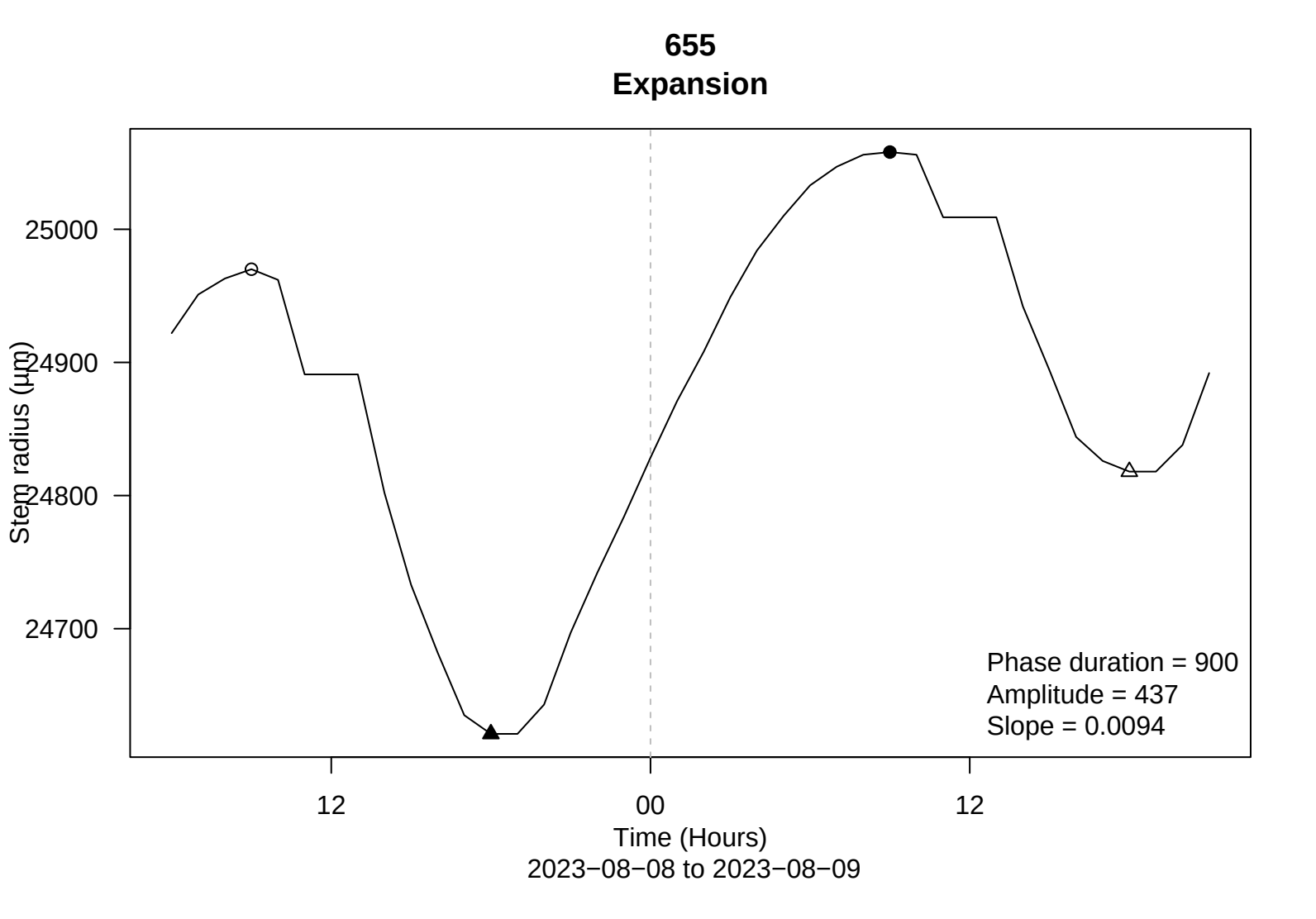

655
Shrinkage
24700
24600
24500
24400
24300
Stem radius (µm)
Phase duration = 540
Amplitude = −144
Slope = −0.0044
00
12
00
Time (Hours)
2023−08−06 to 2023−08−06

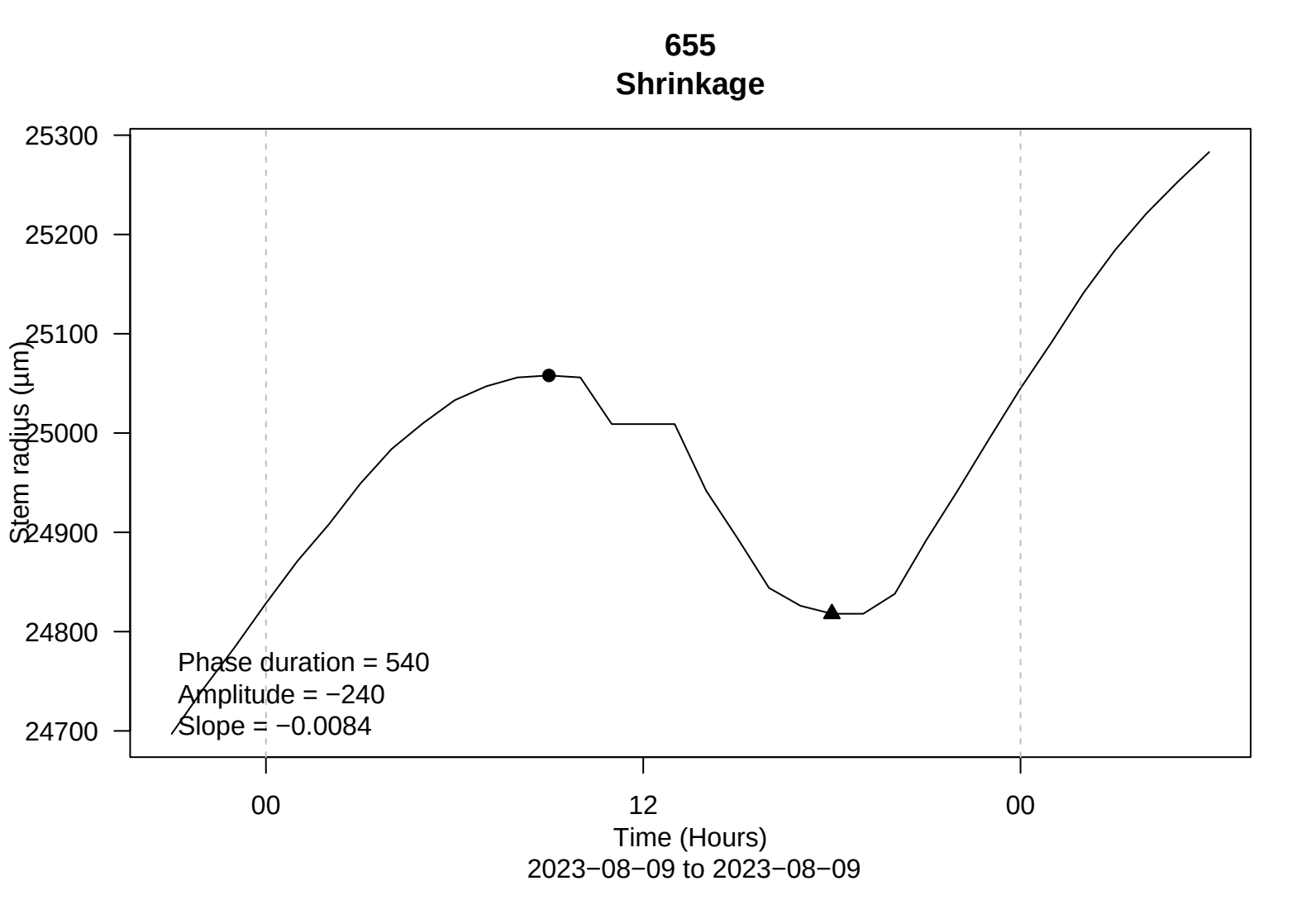

655
Expansion
24700
24600
24500
24400
Stem radius (µm)
Phase duration = 840
Amplitude = 400
Slope = 0.0089
12
00
12
Time (Hours)
2023−08−06 to 2023−08−07

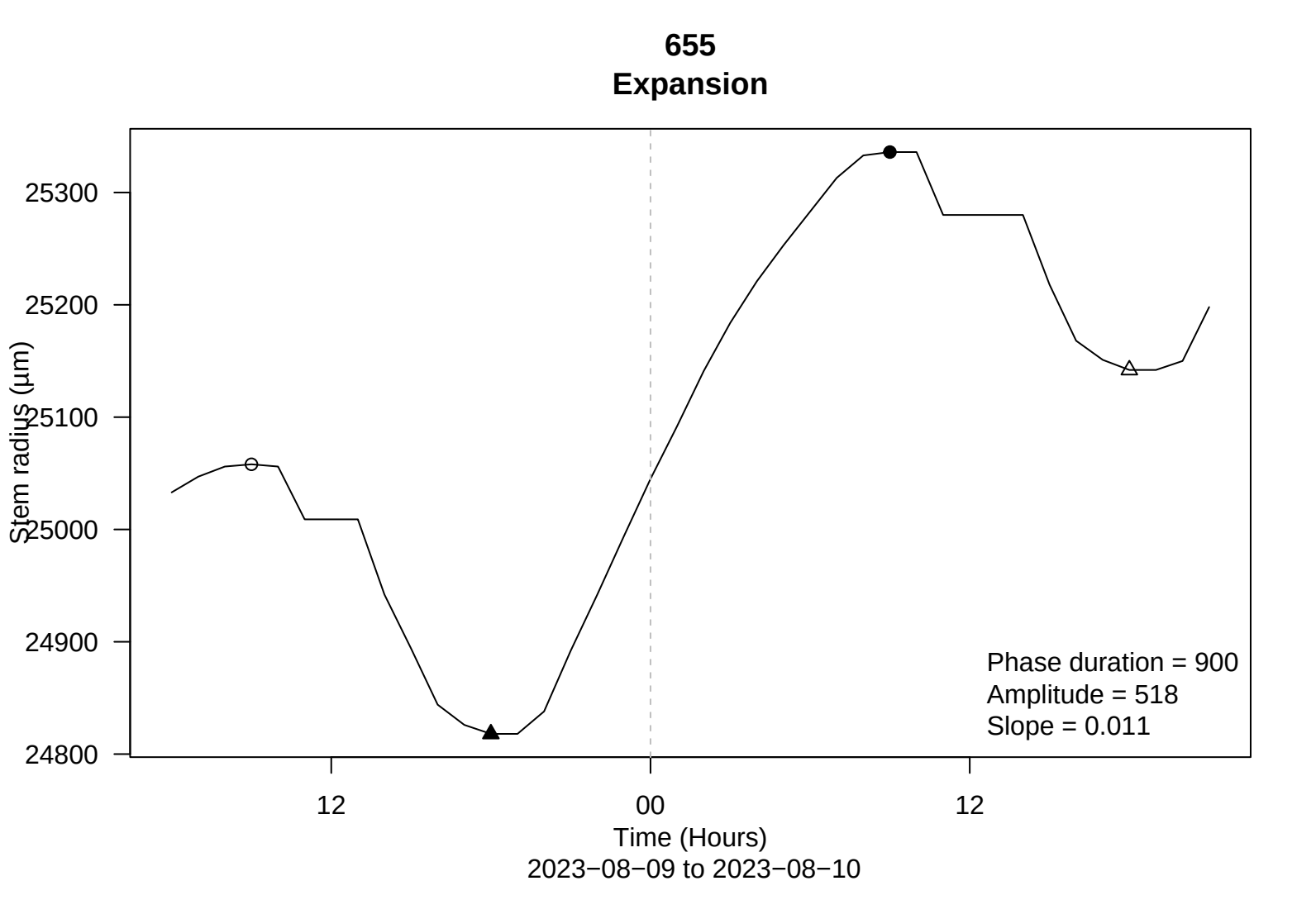

655
Shrinkage
24900
24800
24700
24600
24500
24400
Stem radius (µm)
Phase duration = 600
Amplitude = −274
Slope = −0.0081
00
12
00
Time (Hours)
2023−08−07 to 2023−08−07

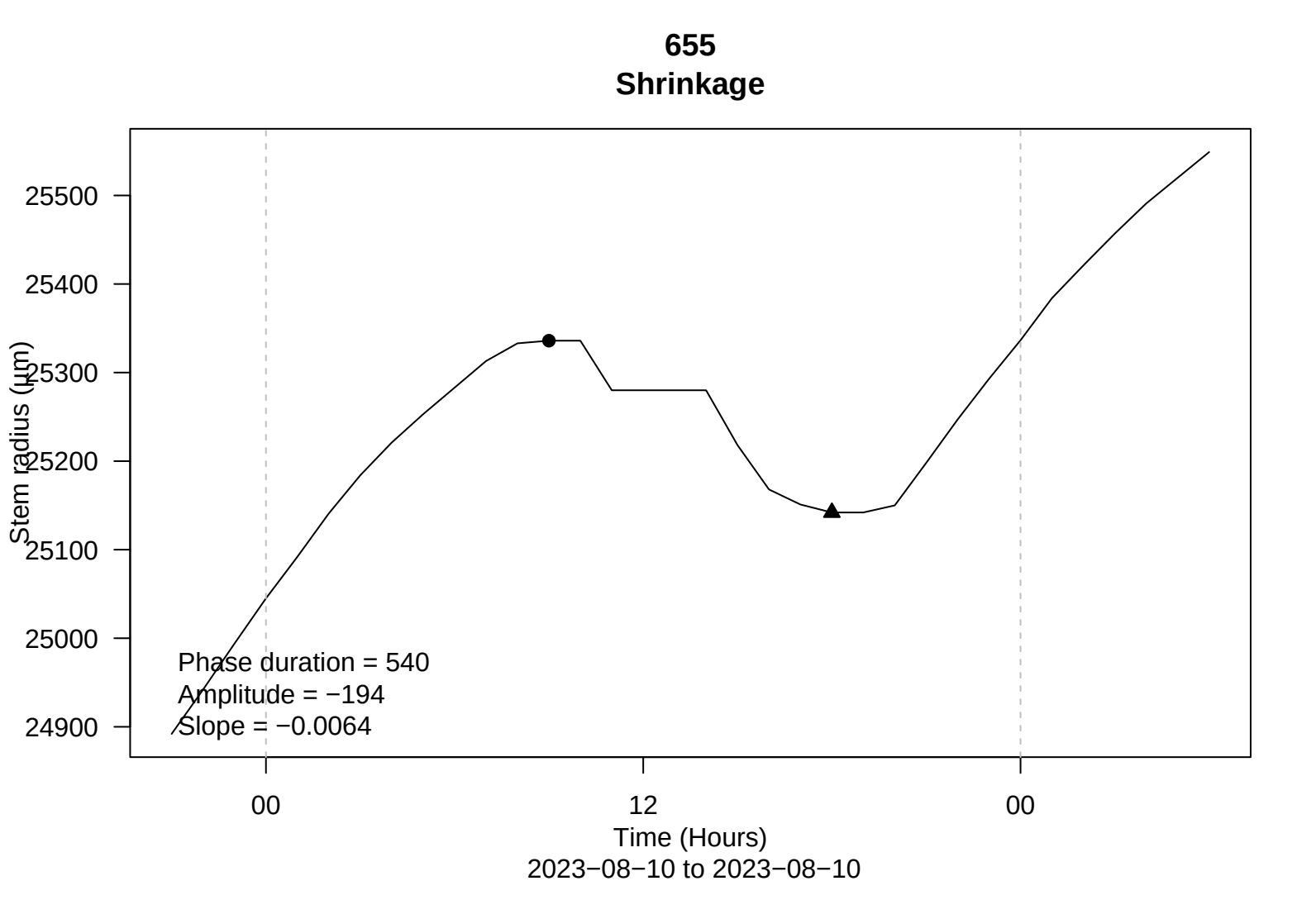

655
Expansion
24900
24800
24700
24600
24500
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−07 to 2023−08−08
Phase duration = 900
Amplitude = 479
Slope = 0.01

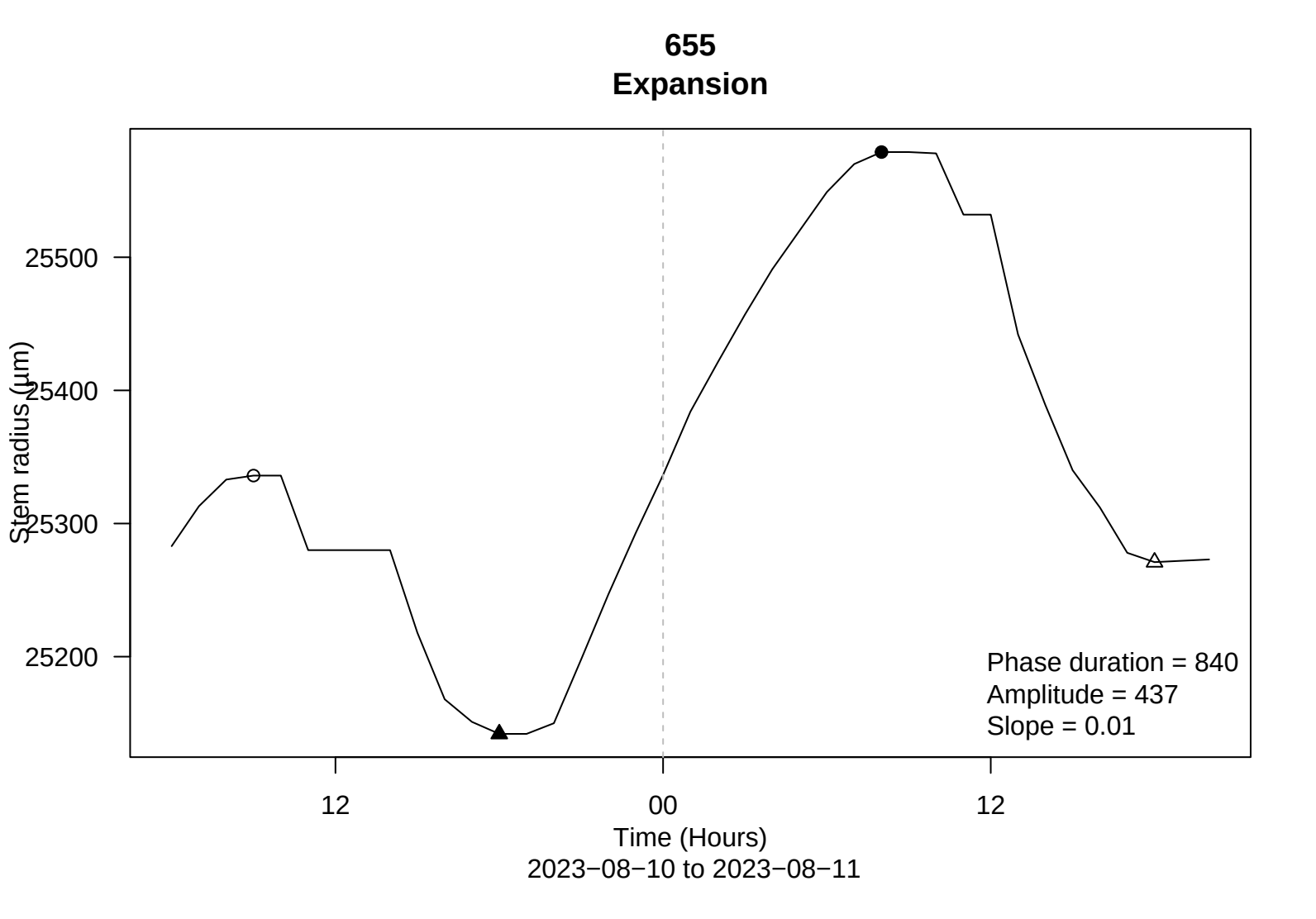

655
Shrinkage
25000
24900
24800
24700
24600
Stem radius (µm)
Phase duration = 540
Amplitude = −349
Slope = −0.0118
00
12
00
Time (Hours)
2023−08−08 to 2023−08−08

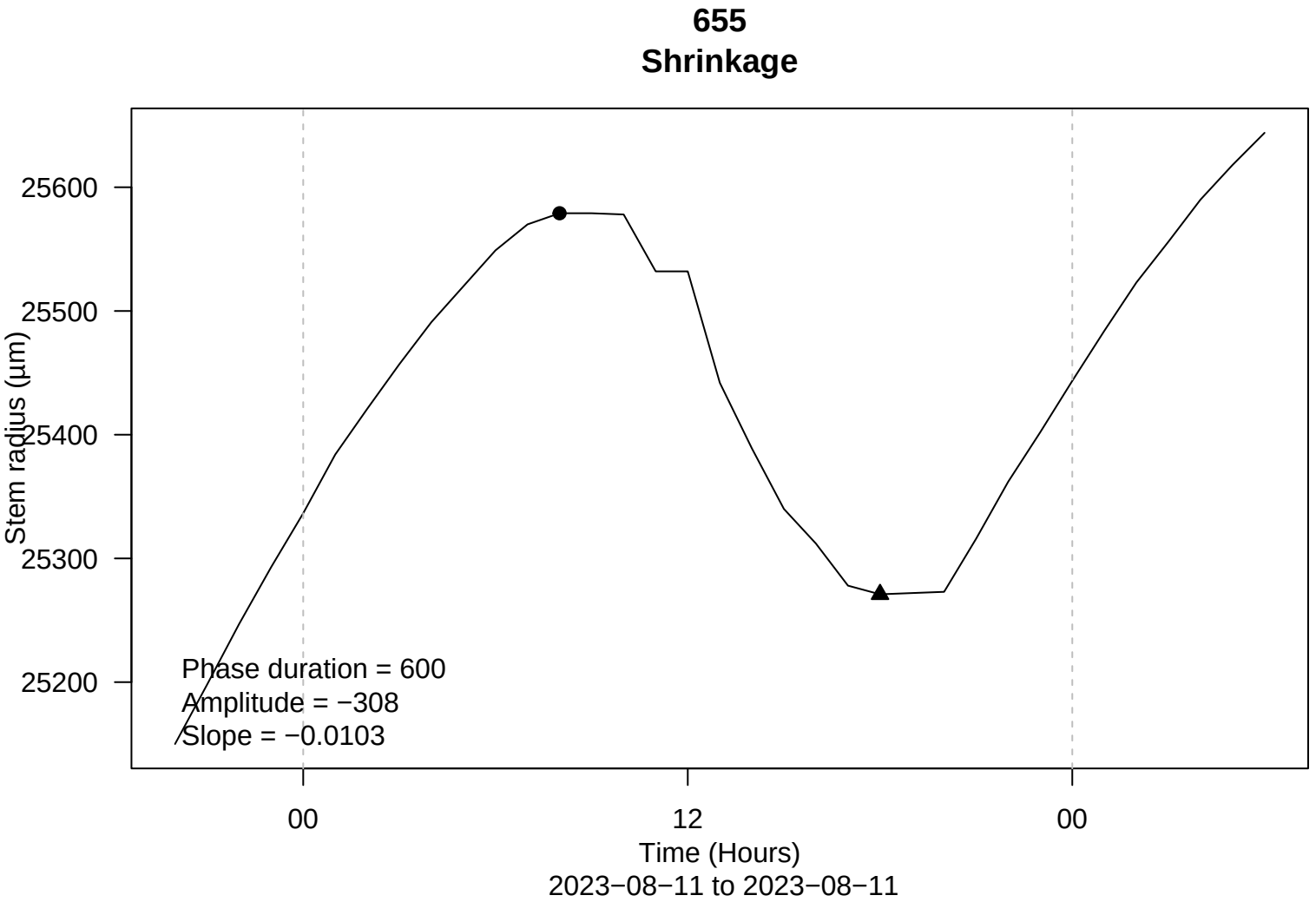

655
Expansion
25000
24900
24800
24700
Stem radius (µm)
Phase duration = 900
Amplitude = 437
Slope = 0.0094
12
00
12
Time (Hours)
2023−08−08 to 2023−08−09

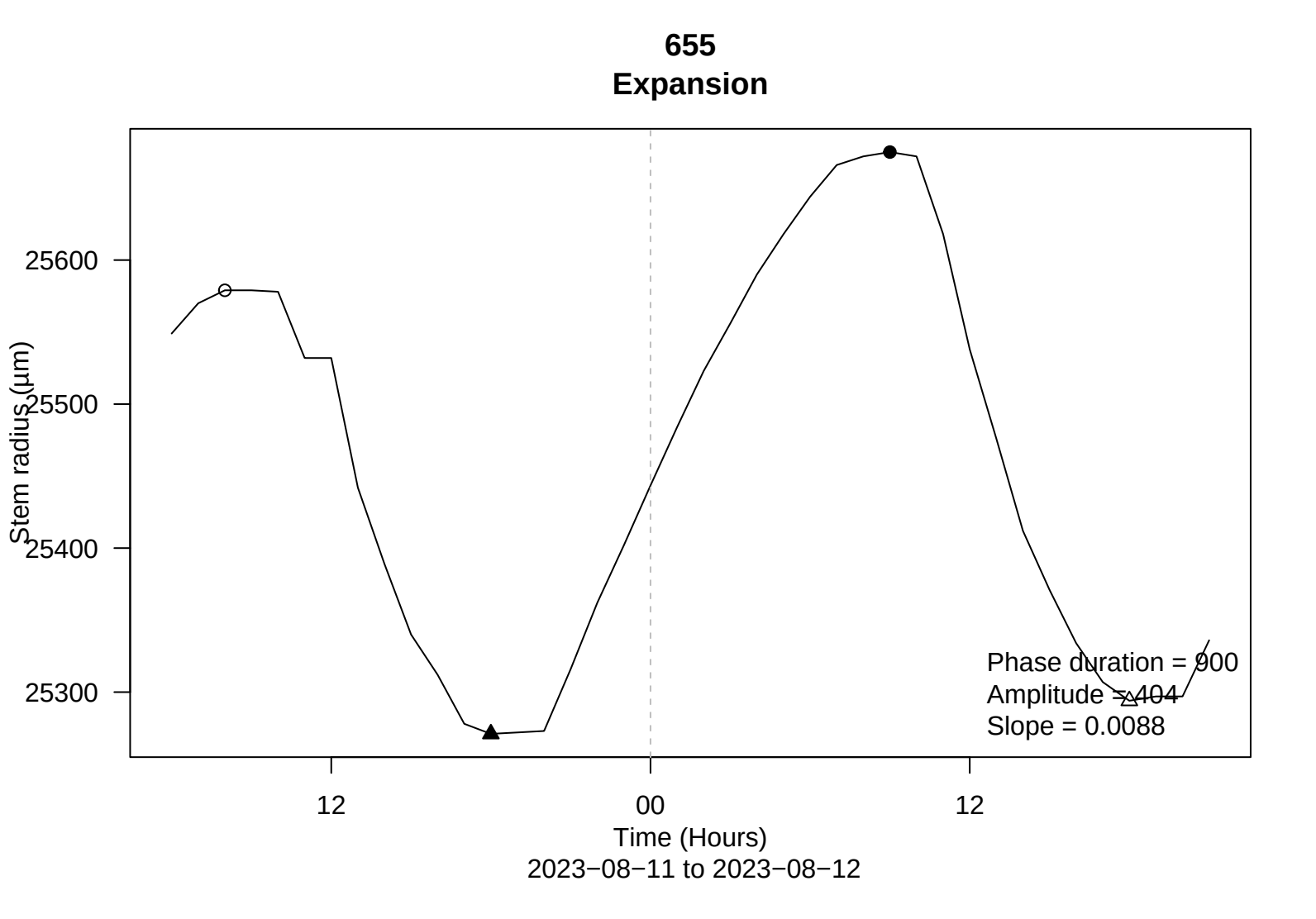

655
Shrinkage
25300
25200
25100
25000
24900
24800
24700
Stem radius (µm)
Phase duration = 540
Amplitude = −240
Slope = −0.0084
00
12
00
Time (Hours)
2023−08−09 to 2023−08−09

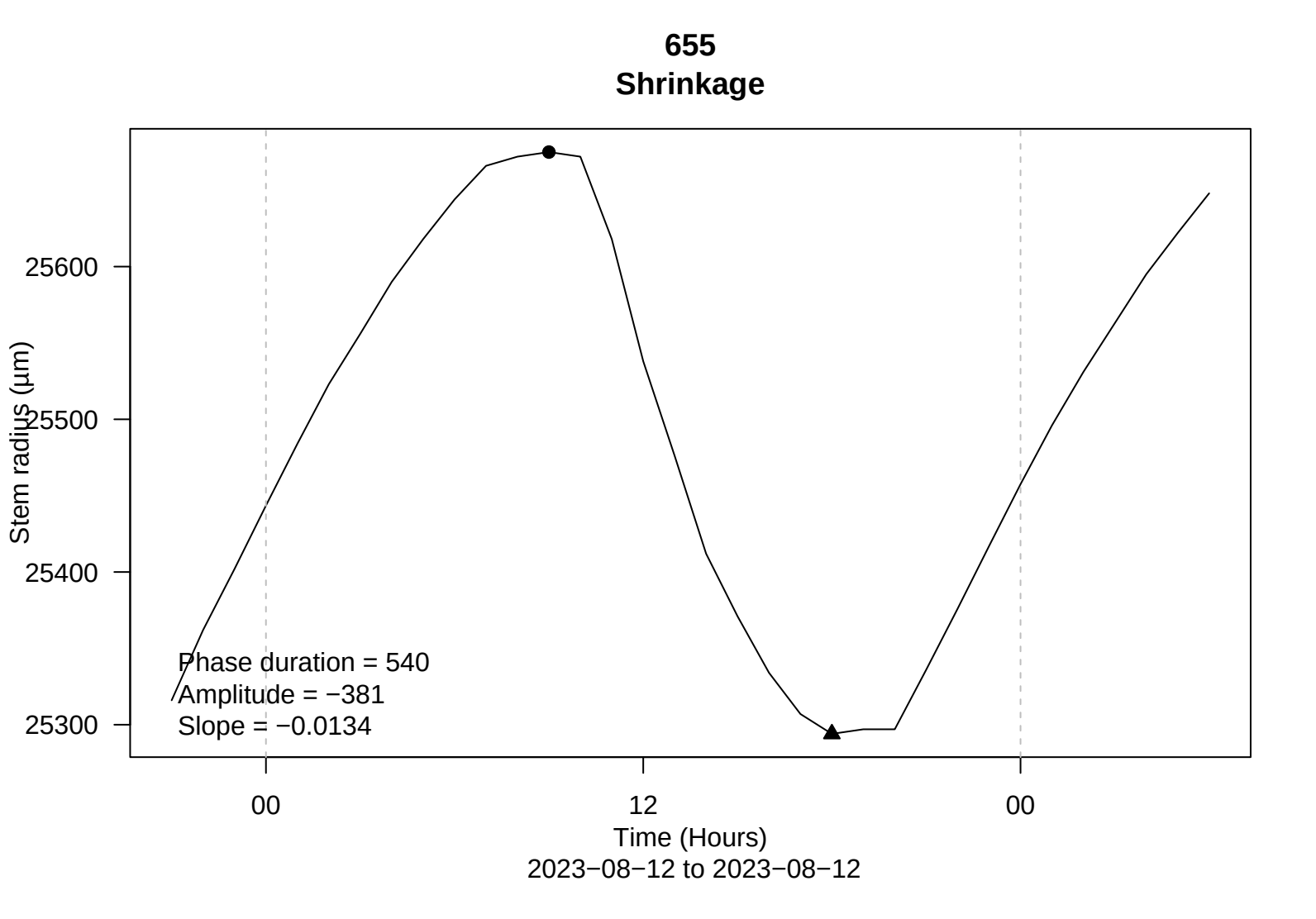

655
Expansion
25300
25200
25100
25000
24900
24800
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−09 to 2023−08−10
Phase duration = 900
Amplitude = 518
Slope = 0.011

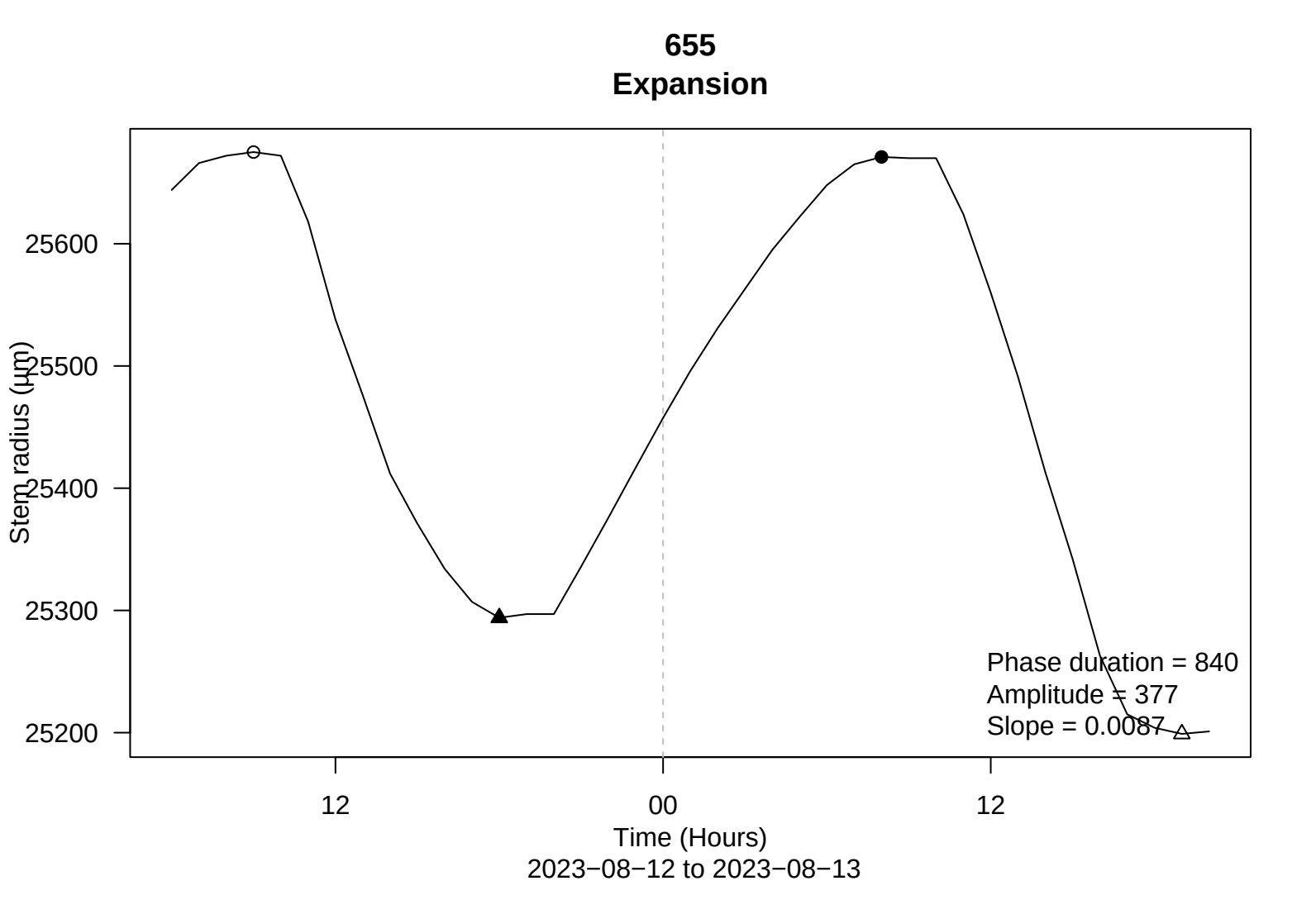

655
Shrinkage
25500
25400
25300
25200
25100
25000
24900
Stem radius (µm)
Phase duration = 540
Amplitude = −194
Slope = −0.0064
00
12
00
Time (Hours)
2023−08−10 to 2023−08−10

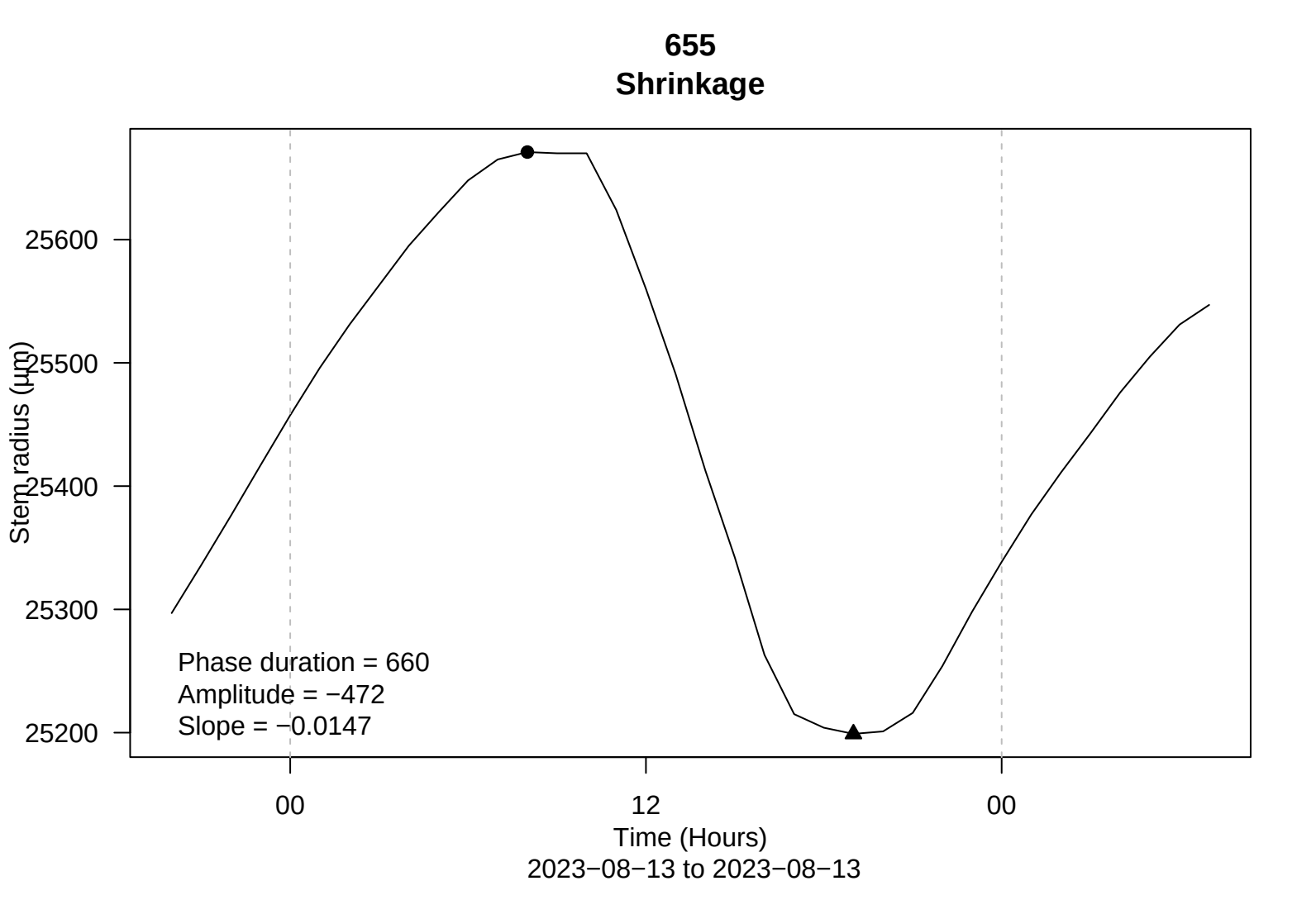

655
Expansion
25500
25400
25300
25200
Stem radius (µm)
Phase duration = 840
Amplitude = 437
Slope = 0.01
12
00
12
Time (Hours)
2023−08−10 to 2023−08−11

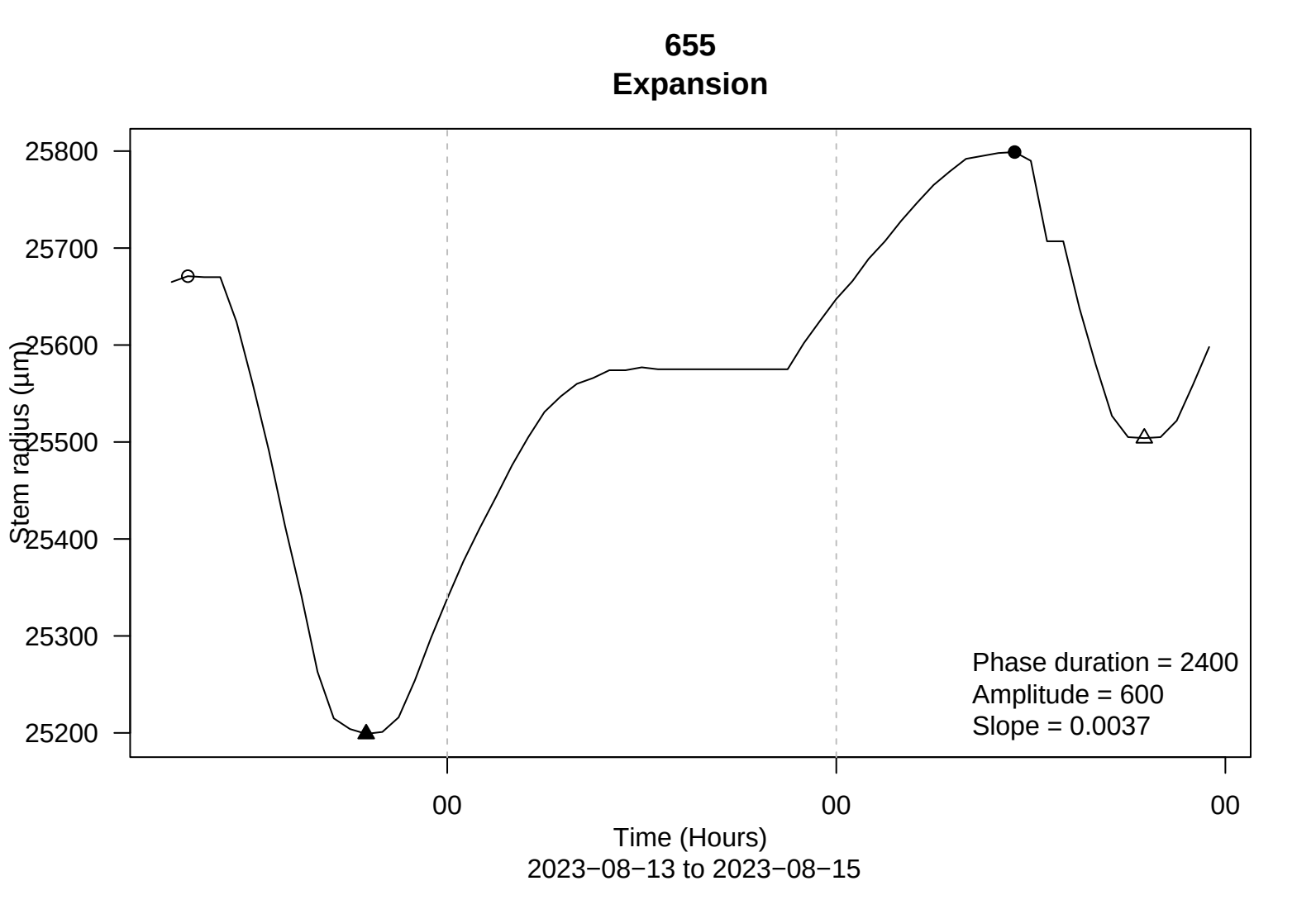

655
Shrinkage
25600
25500
25400
25300
25200
Stem radius (µm)
Phase duration = 600
Amplitude = −308
Slope = −0.0103
00
12
00
Time (Hours)
2023−08−11 to 2023−08−11

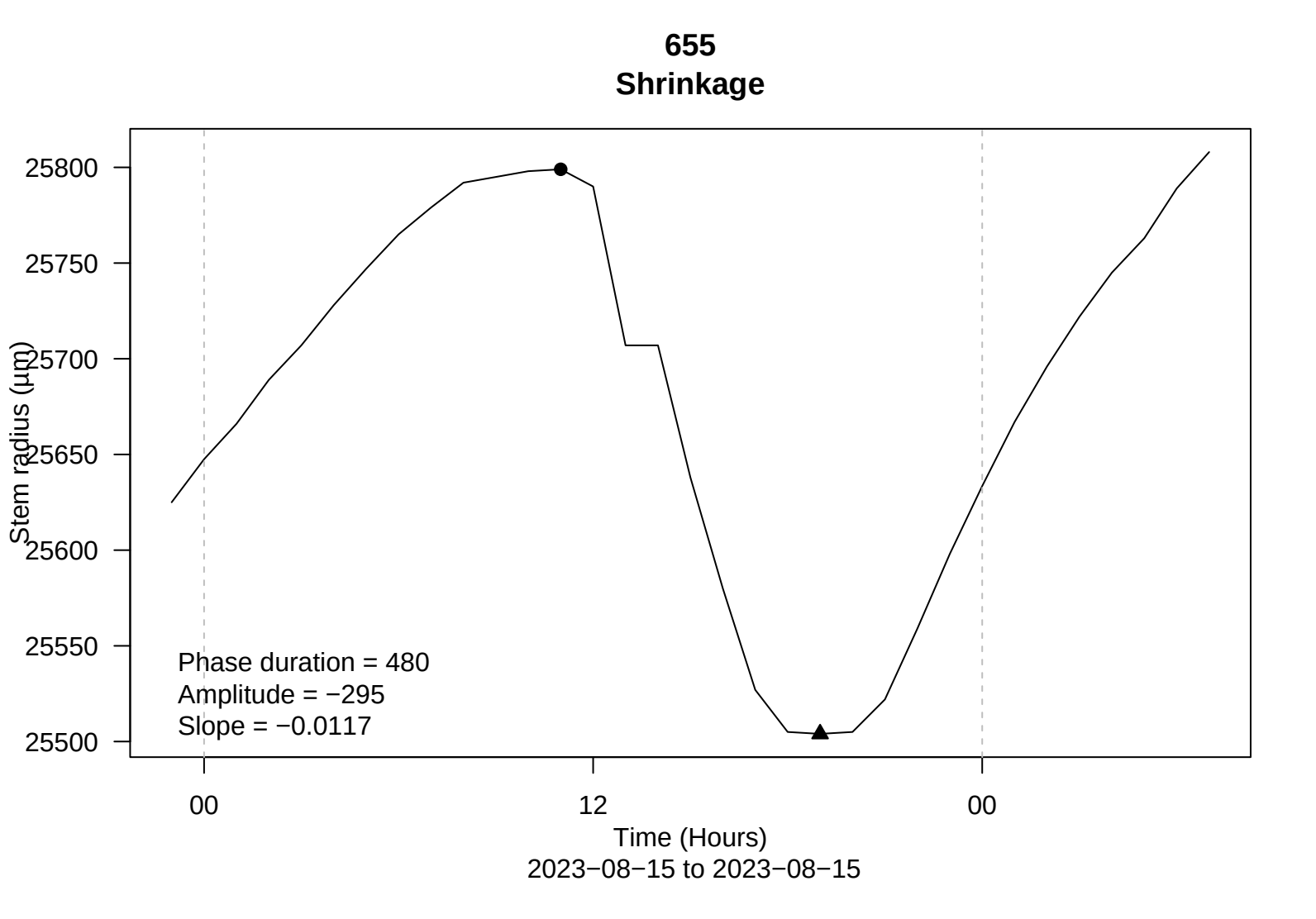

655
Expansion
25600
25500
25400
25300
Stem radius (µm)
Phase duration = 900
Amplitude = 404
Slope = 0.0088
12
00
12
Time (Hours)
2023−08−11 to 2023−08−12

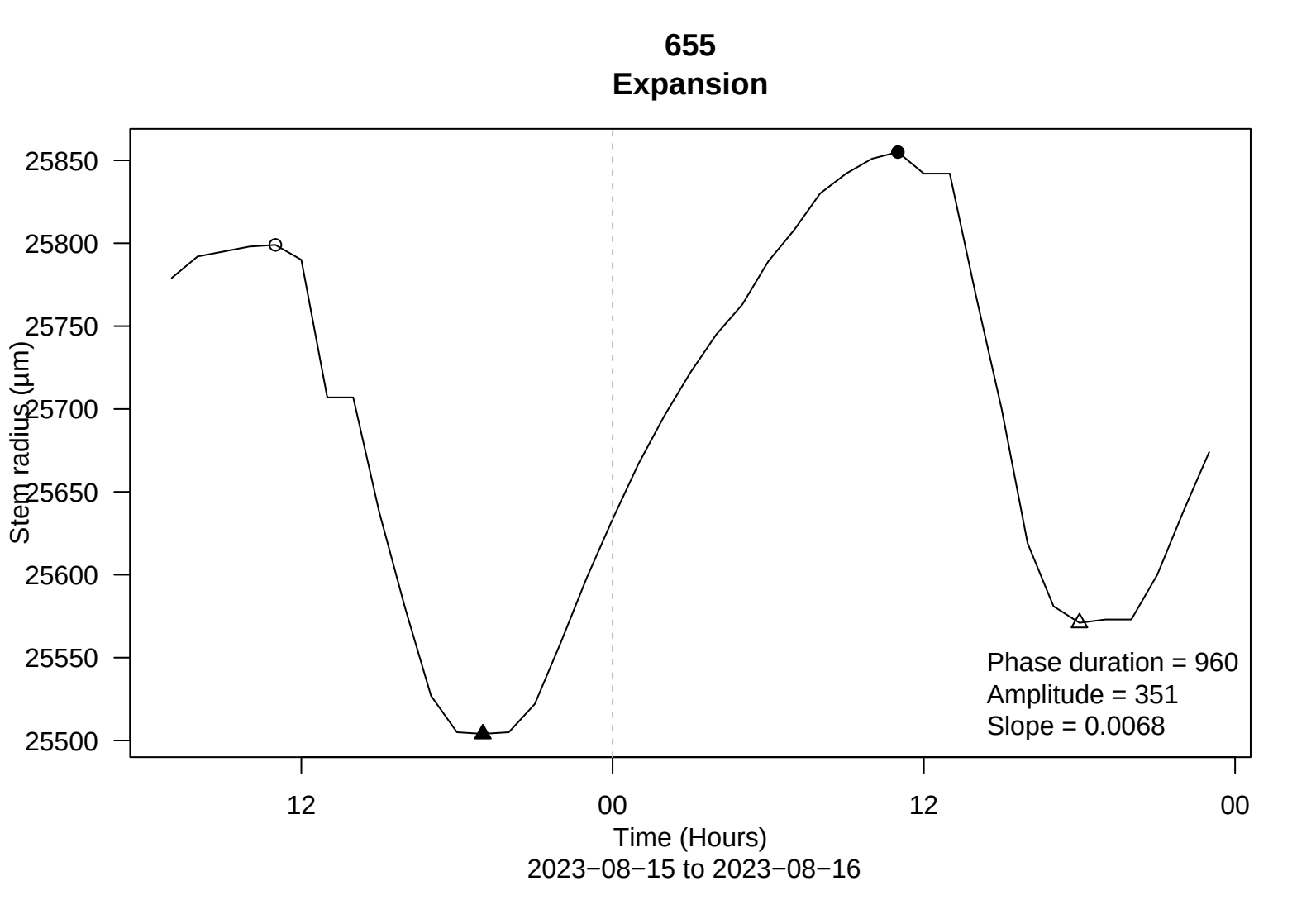

655
Shrinkage
25600
25500
25400
25300
Stem radius (µm)
Phase duration = 540
Amplitude = −381
Slope = −0.0134
00
12
00
Time (Hours)
2023−08−12 to 2023−08−12

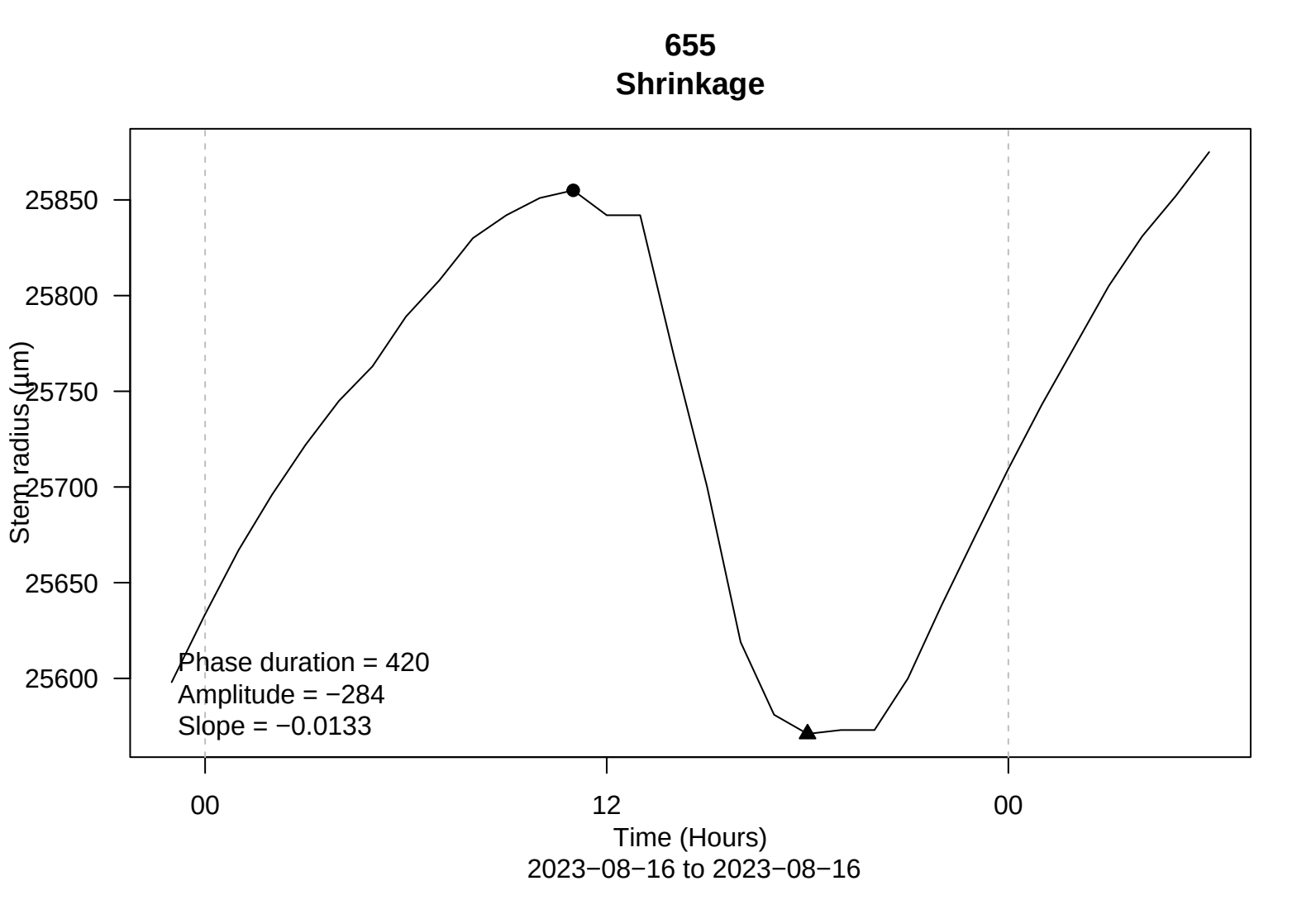

655
Expansion
25600
25500
25400
25300
25200
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−12 to 2023−08−13
Phase duration = 840
Amplitude = 377
Slope = 0.0087

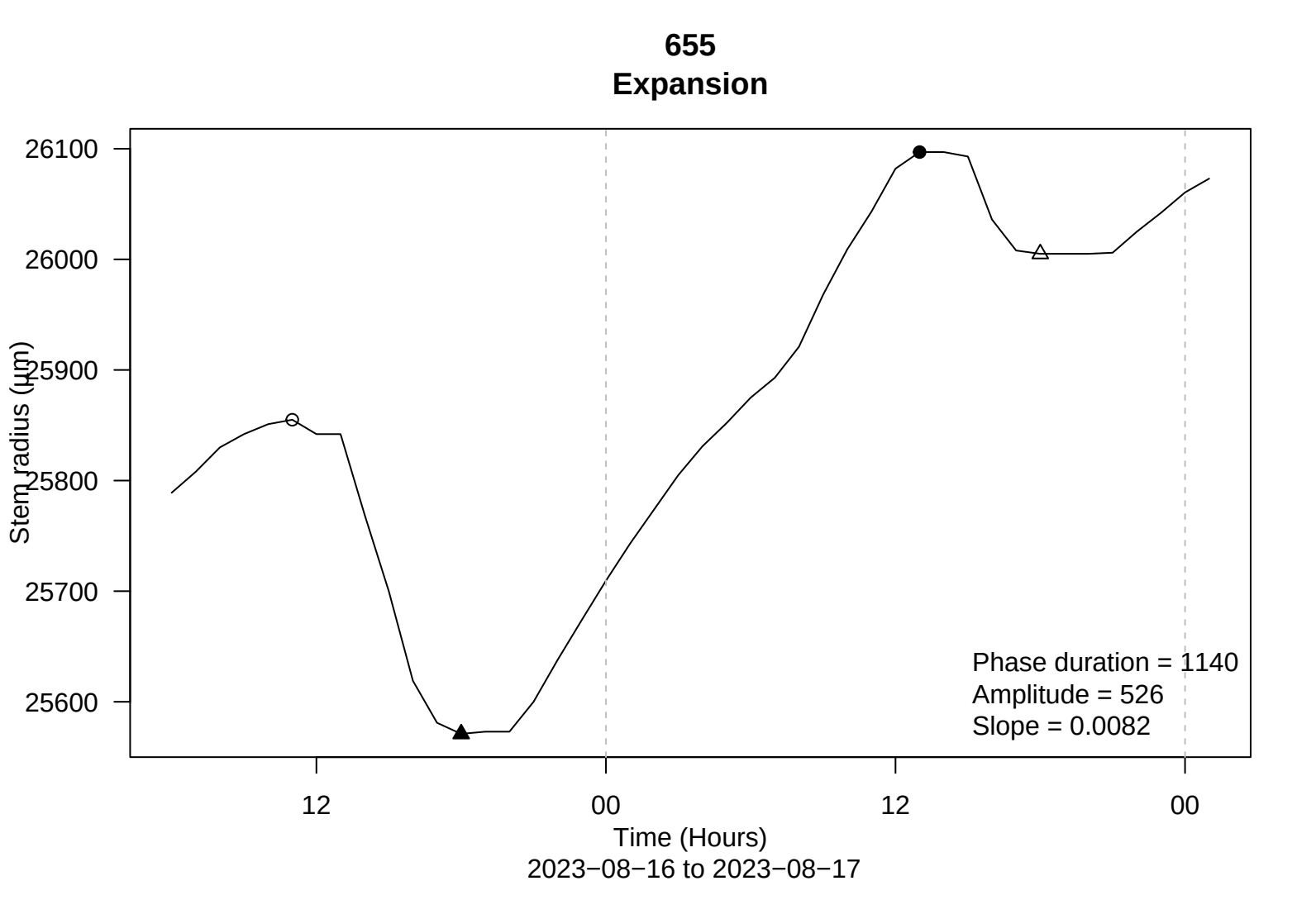

655
Shrinkage
25600
25500
25400
25300
25200
Stem radius (µm)
Phase duration = 660
Amplitude = −472
Slope = −0.0147
00
12
00
Time (Hours)
2023−08−13 to 2023−08−13

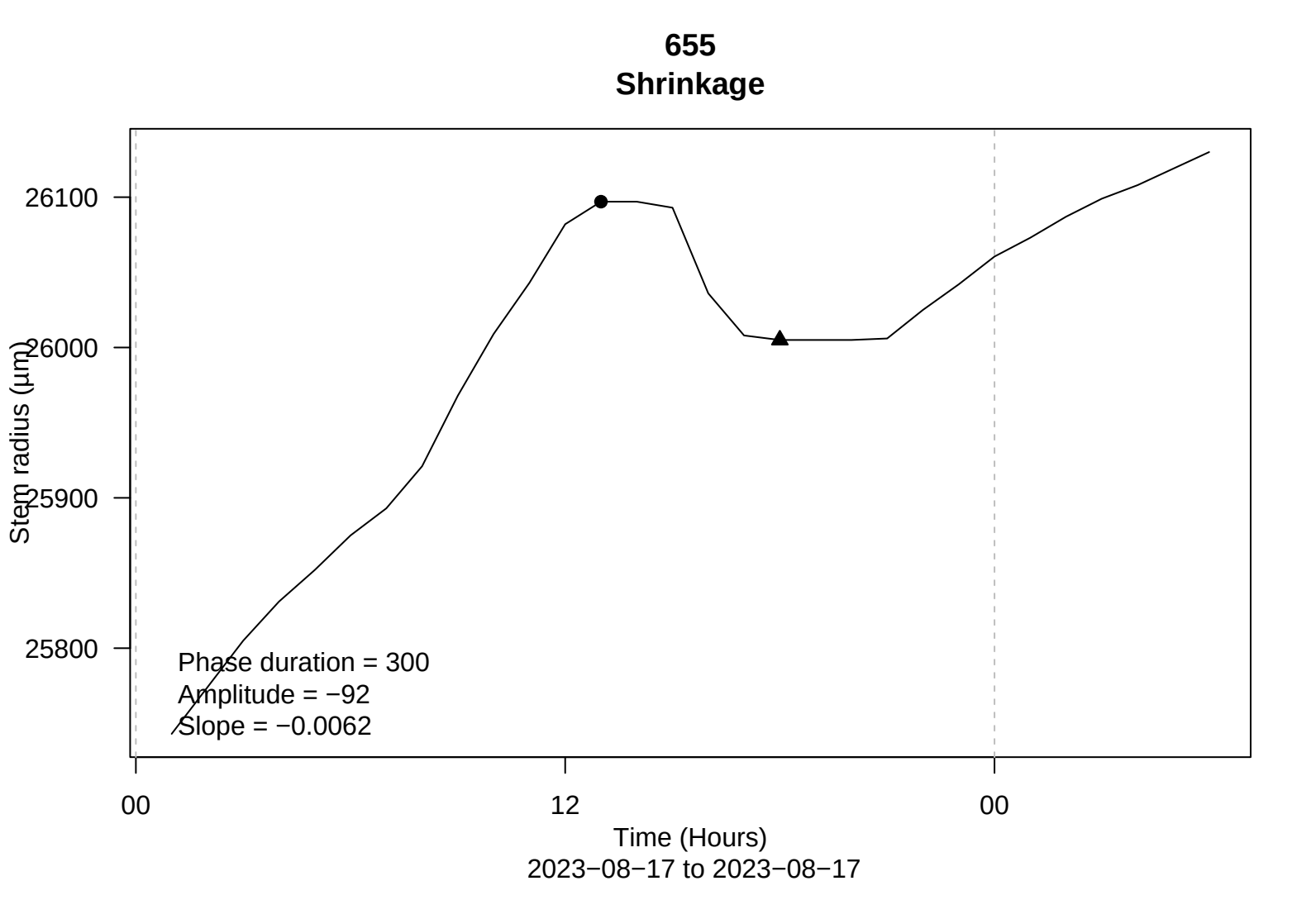

655
Expansion
25800
25700
25600
25500
25400
25300
25200
Stem radius (µm)
Phase duration = 2400
Amplitude = 600
Slope = 0.0037
00
00
00
Time (Hours)
2023−08−13 to 2023−08−15

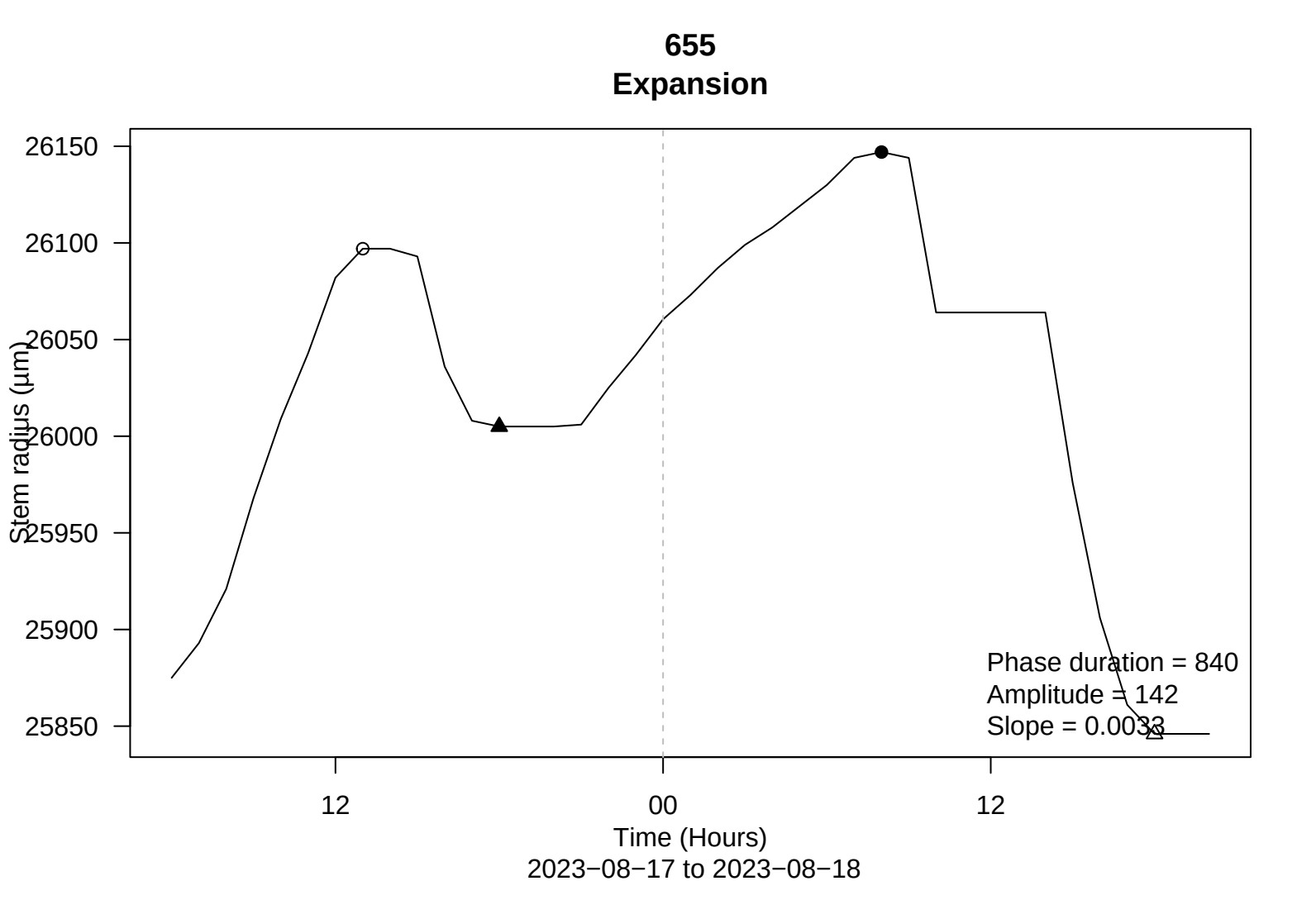

655
Shrinkage
25800
25750
25700
25650
25600
25550
25500
Stem radius (µm)
Phase duration = 480
Amplitude = −295
Slope = −0.0117
00
12
00
Time (Hours)
2023−08−15 to 2023−08−15

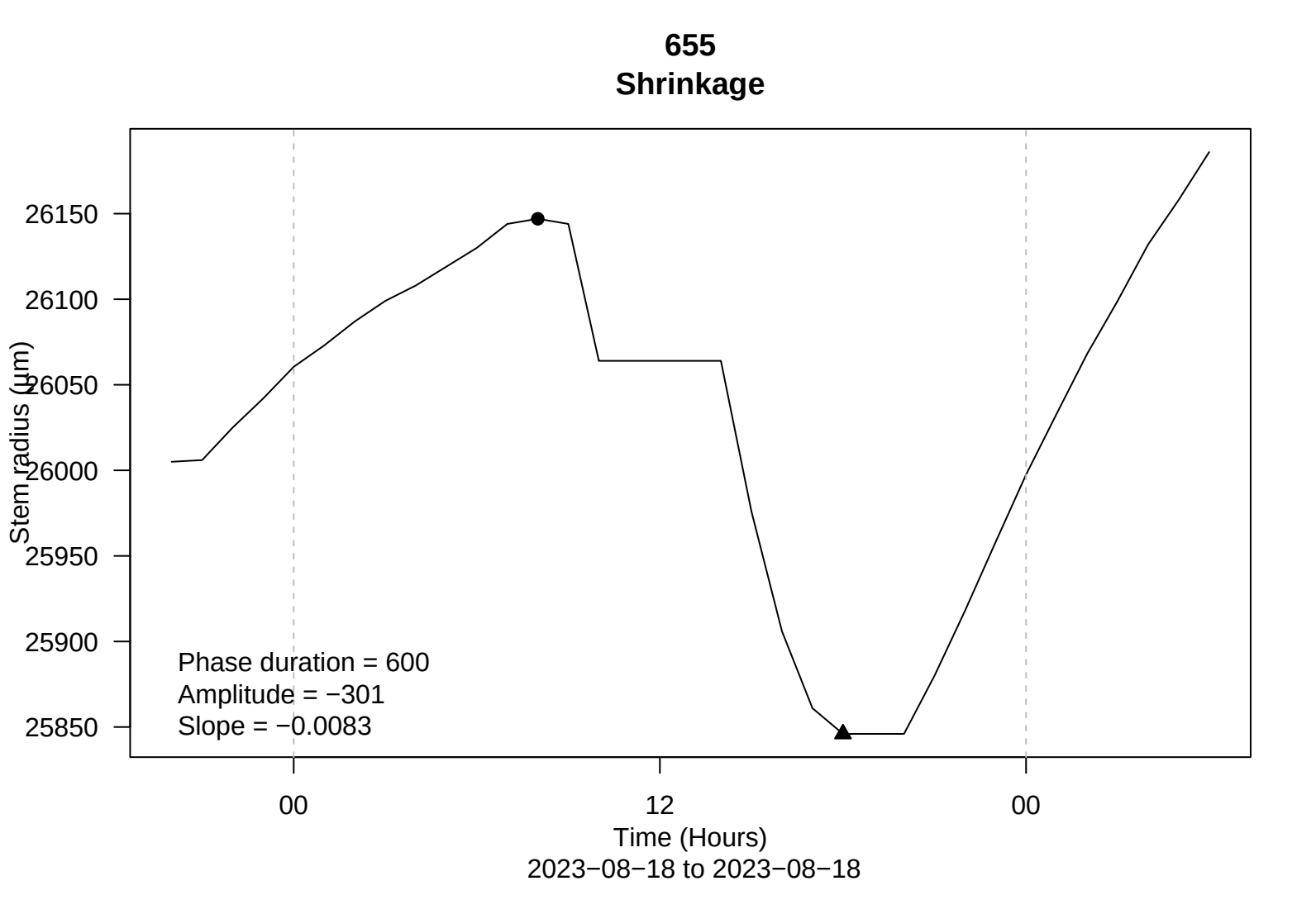

655
Expansion
25850
25800
25750
25700
25650
25600
25550
25500
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−08−15 to 2023−08−16
Phase duration = 960
Amplitude = 351
Slope = 0.0068

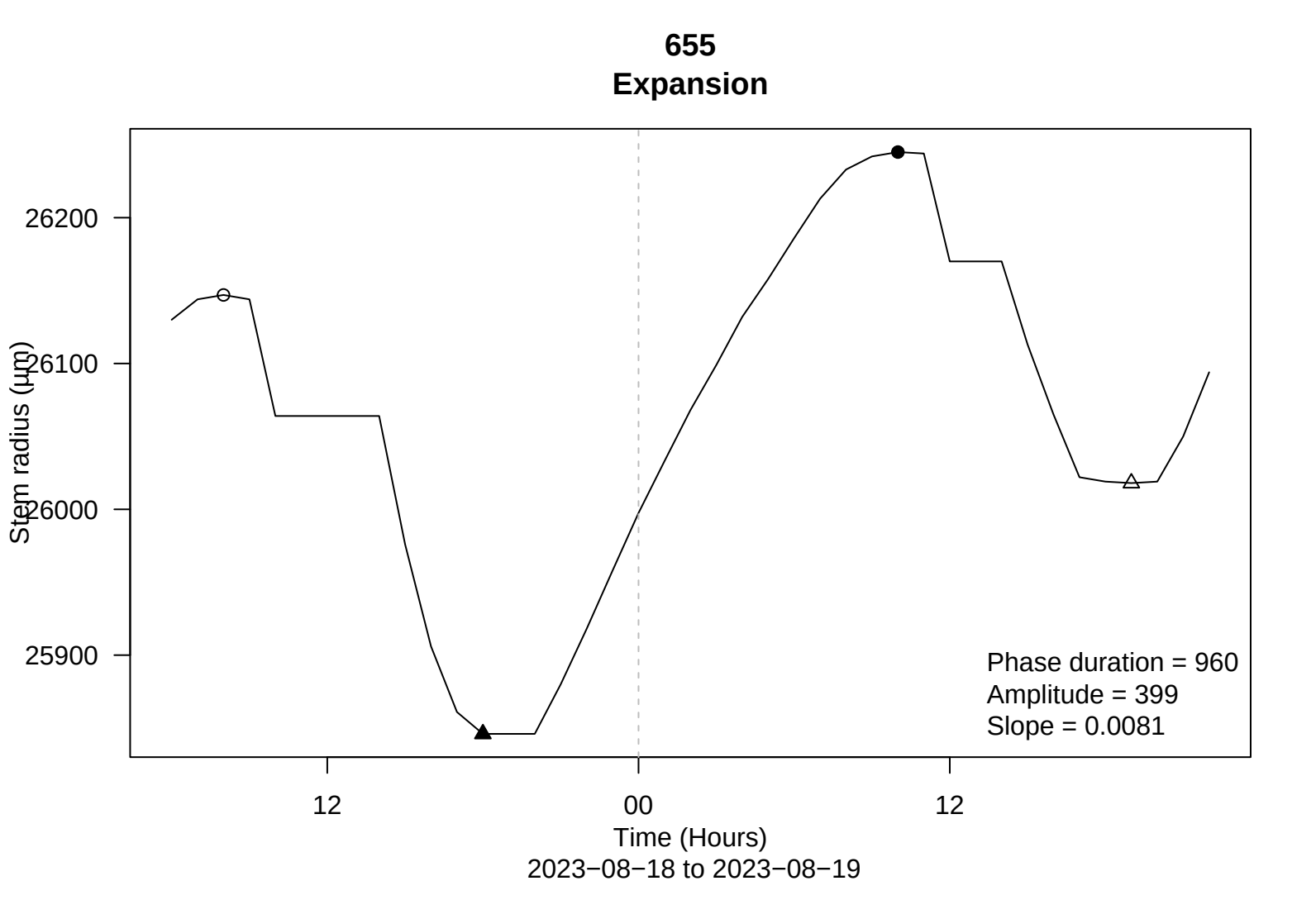

655
Shrinkage
25850
25800
25750
25700
25650
25600
Stem radius (µm)
Phase duration = 420
Amplitude = −284
Slope = −0.0133
00
12
00
Time (Hours)
2023−08−16 to 2023−08−16

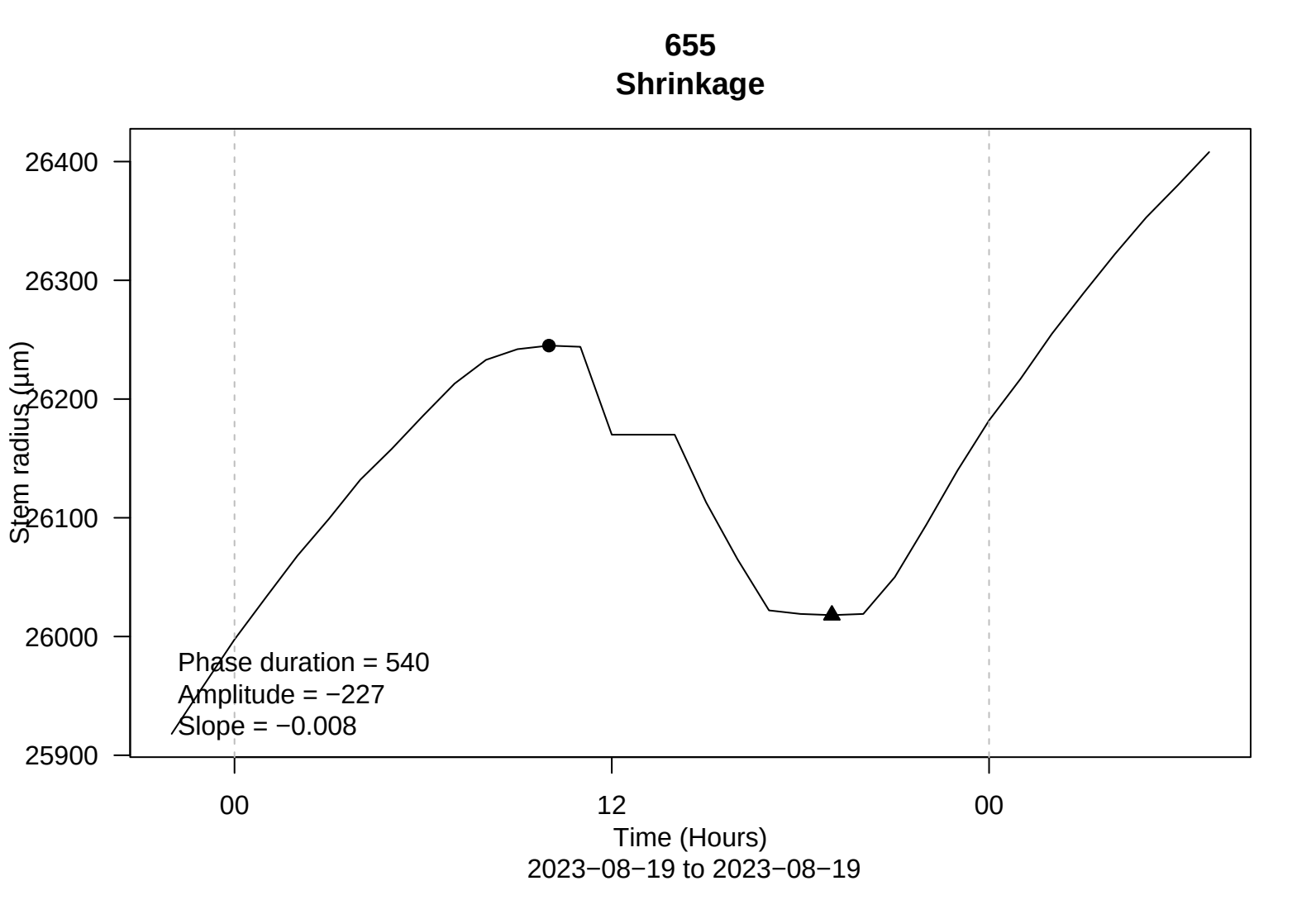

655
Expansion
26100
26000
25900
25800
25700
25600
Stem radius (µm)
Phase duration = 1140
Amplitude = 526
Slope = 0.0082
12
00
12
00
Time (Hours)
2023−08−16 to 2023−08−17

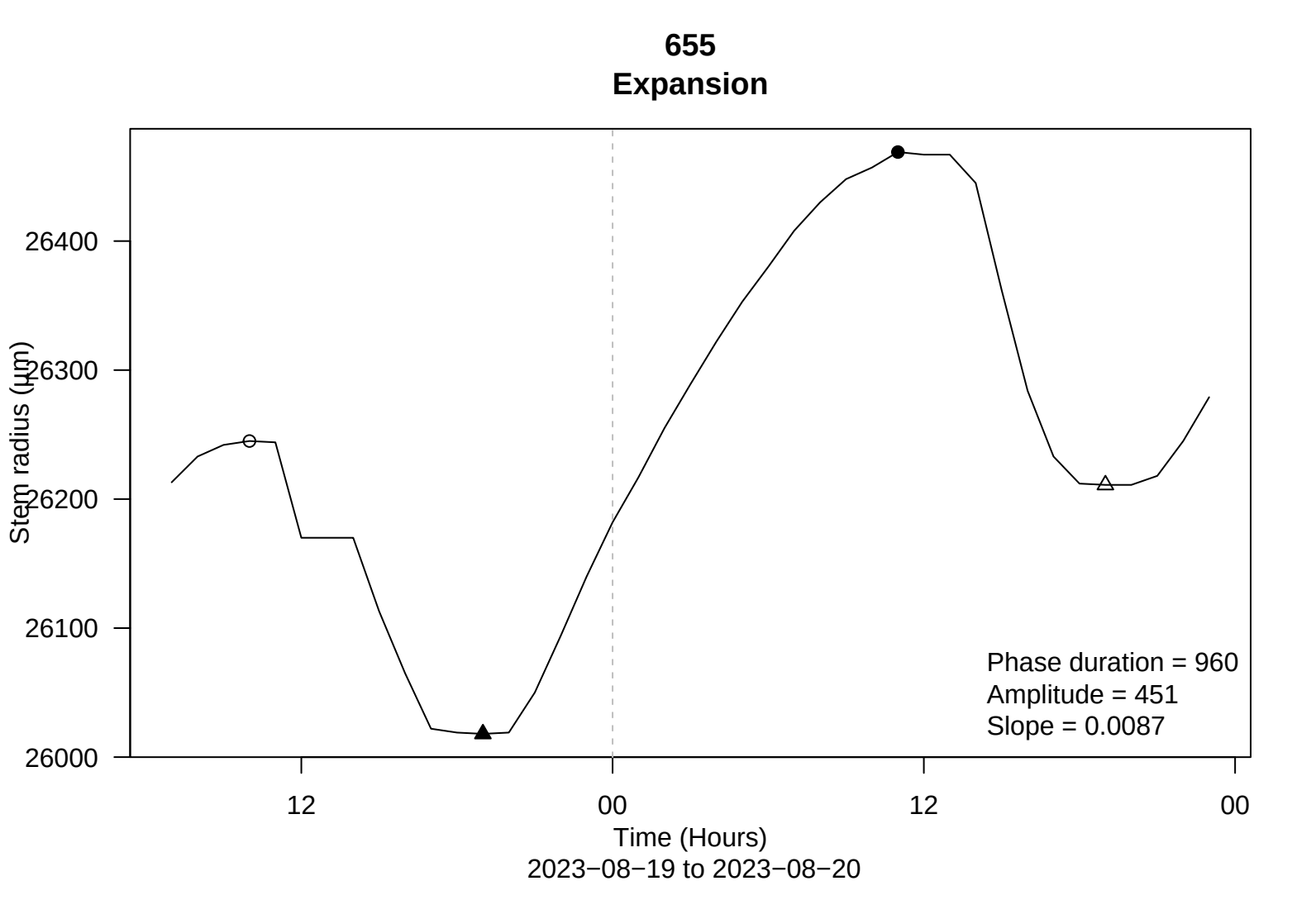

655
Shrinkage
26100
26000
25900
25800
Stem radius (µm)
Phase duration = 300
Amplitude = −92
Slope = −0.0062
00
12
00
Time (Hours)
2023−08−17 to 2023−08−17

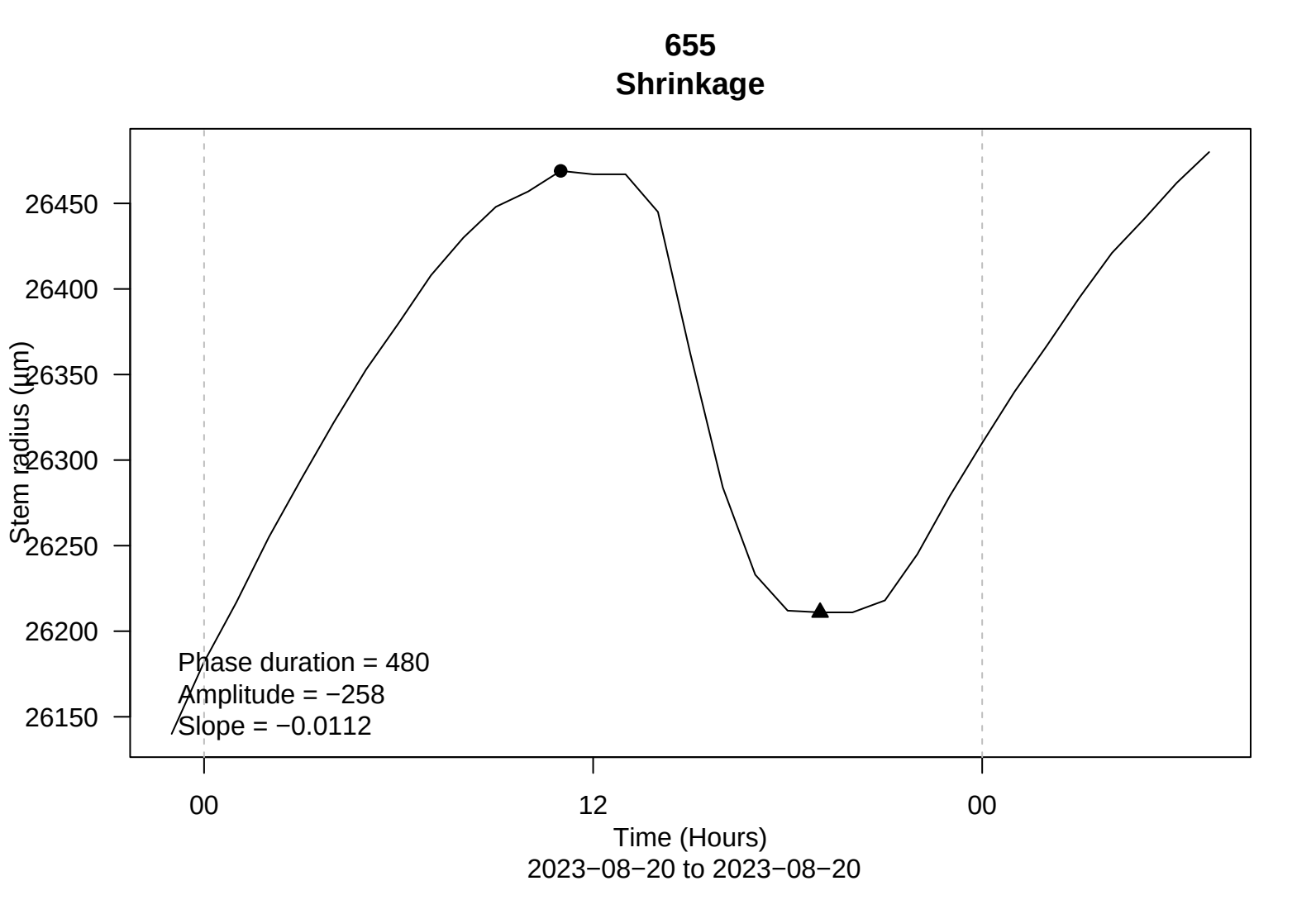

655
Expansion
26150
26100
26050
26000
25950
25900
25850
Stem radius (µm)
Phase duration = 840
Amplitude = 142
Slope = 0.0033
12
00
12
Time (Hours)
2023−08−17 to 2023−08−18

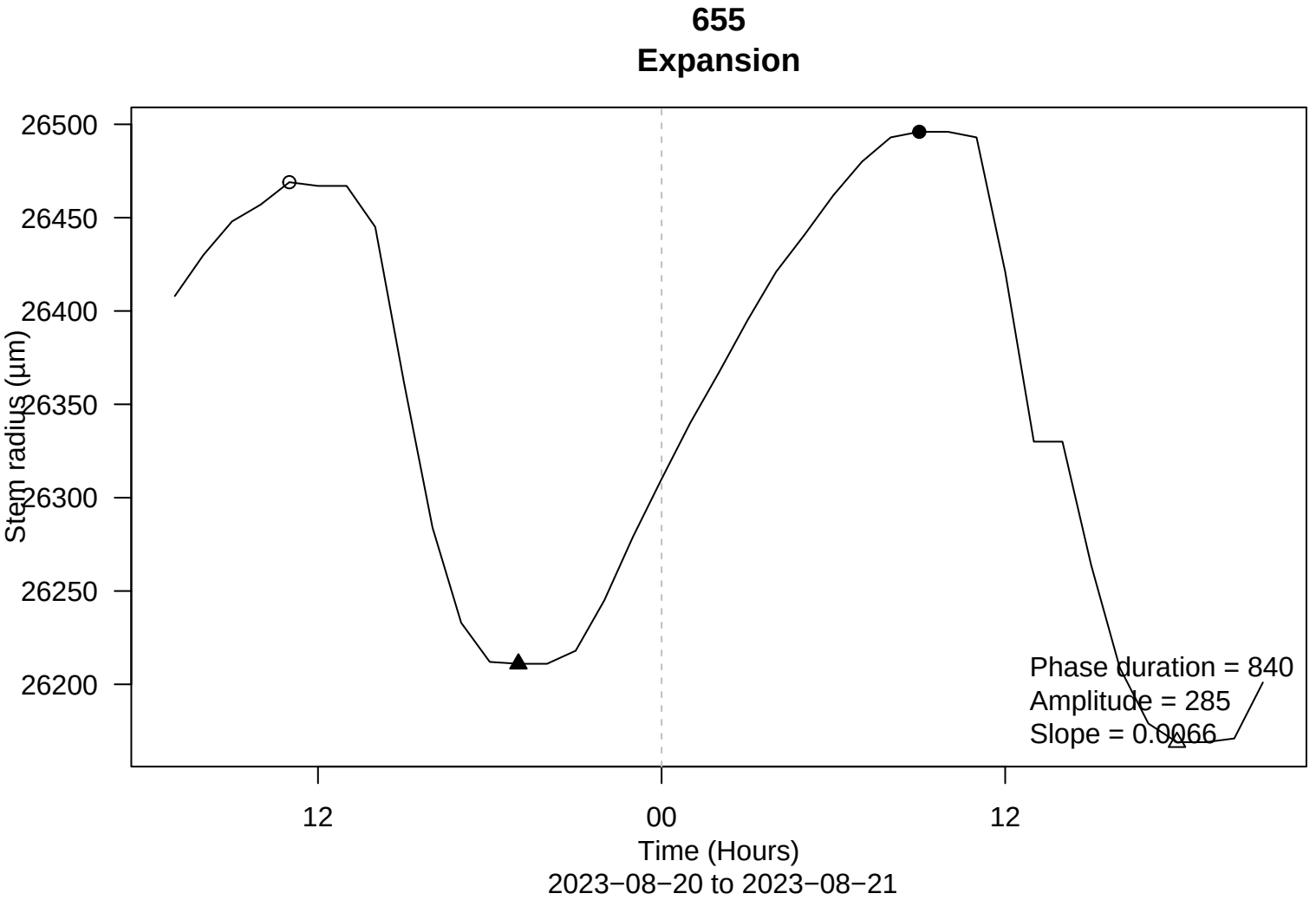

655
Shrinkage
26150
26100
26050
26000
25950
25900
25850
Stem radius (µm)
Phase duration = 600
Amplitude = −301
Slope = −0.0083
00
12
00
Time (Hours)
2023−08−18 to 2023−08−18

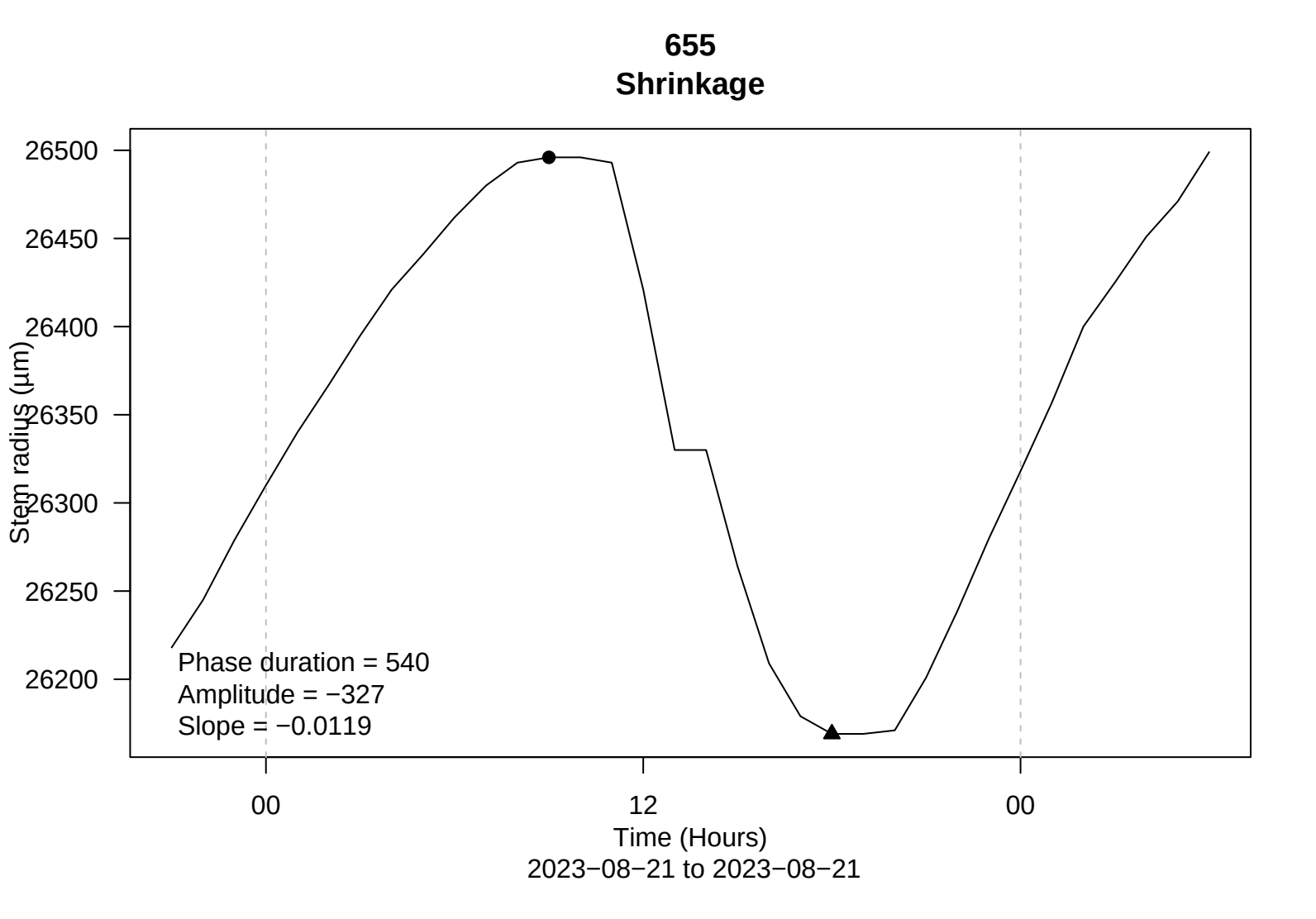

655
Expansion
26200
26100
26000
25900
Stem radius (µm)
Phase duration = 960
Amplitude = 399
Slope = 0.0081
12
00
12
Time (Hours)
2023−08−18 to 2023−08−19

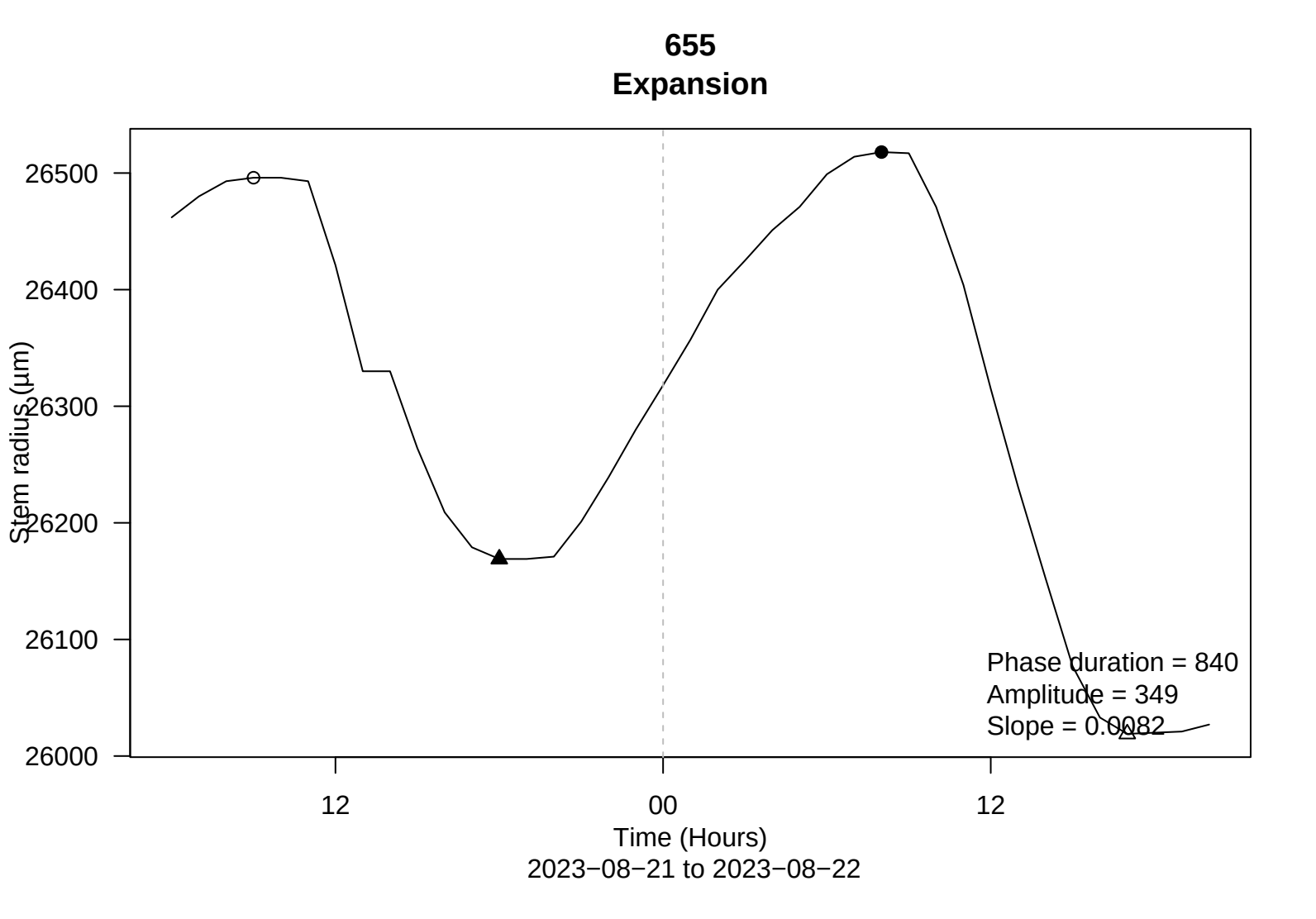

655
Shrinkage
26400
26300
26200
26100
26000
25900
Stem radius (µm)
Phase duration = 540
Amplitude = −227
Slope = −0.008
00
12
00
Time (Hours)
2023−08−19 to 2023−08−19

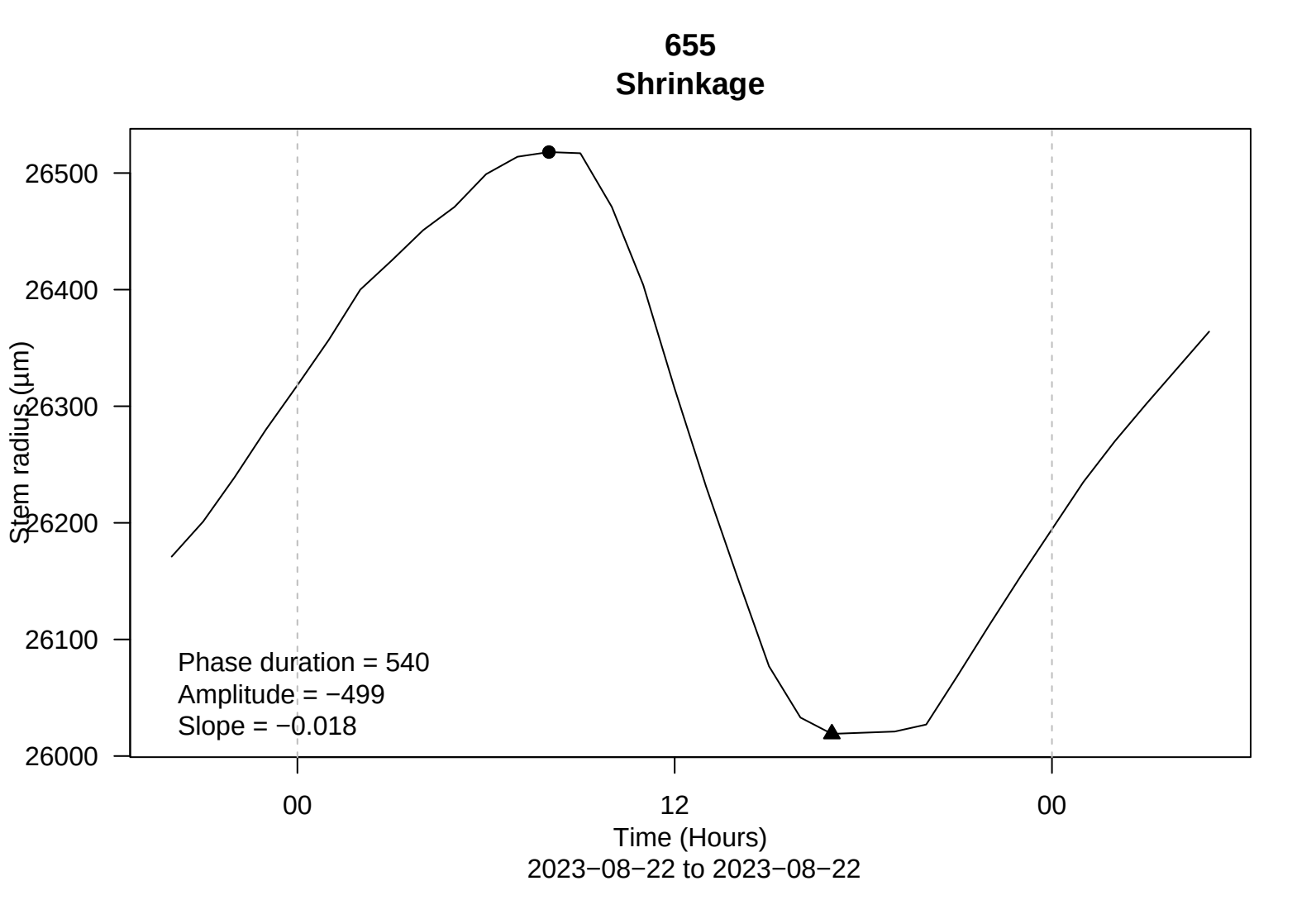

655
Expansion
26400
26300
26200
26100
26000
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−08−19 to 2023−08−20
Phase duration = 960
Amplitude = 451
Slope = 0.0087

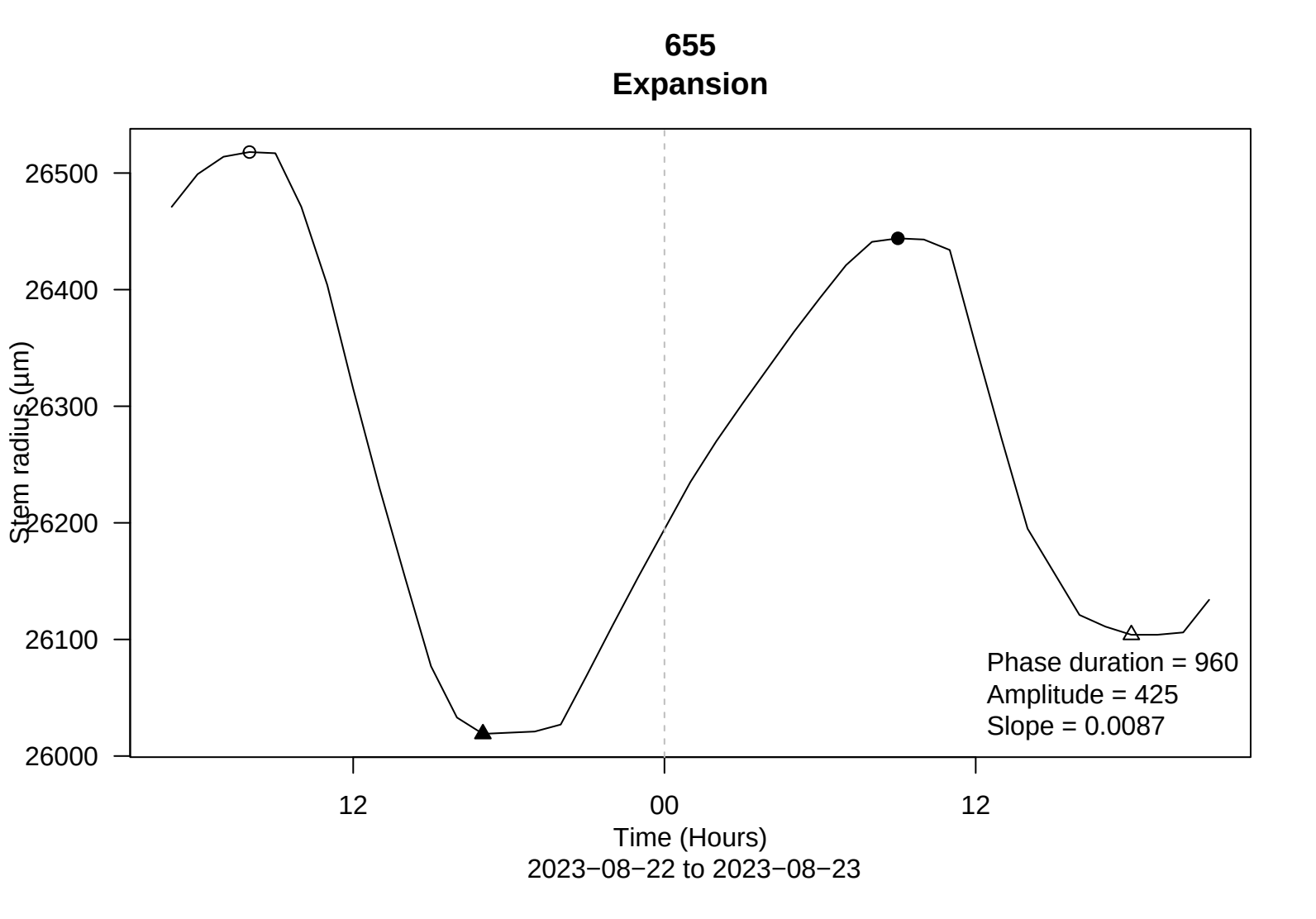

655
Shrinkage
Stem radius (µm)
26450
26400
26350
26300
26250
26200
26150
Phase duration = 480
Amplitude = −258
Slope = −0.0112
00
12
00
Time (Hours)
2023−08−20 to 2023−08−20

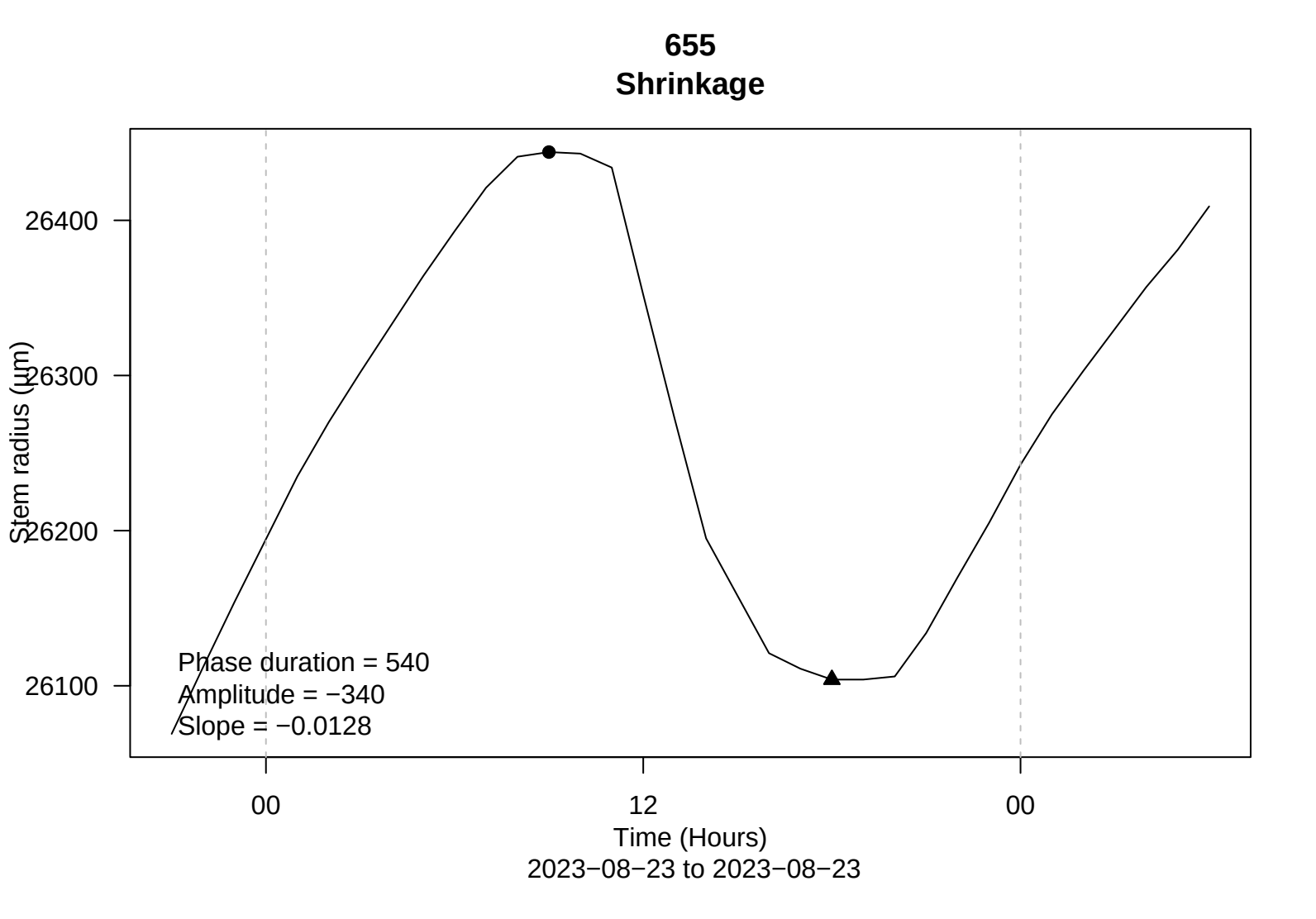

655
Expansion
26500
26450
26400
26350
26300
26250
26200
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−20 to 2023−08−21
Phase duration = 840
Amplitude = 285
Slope = 0.0066

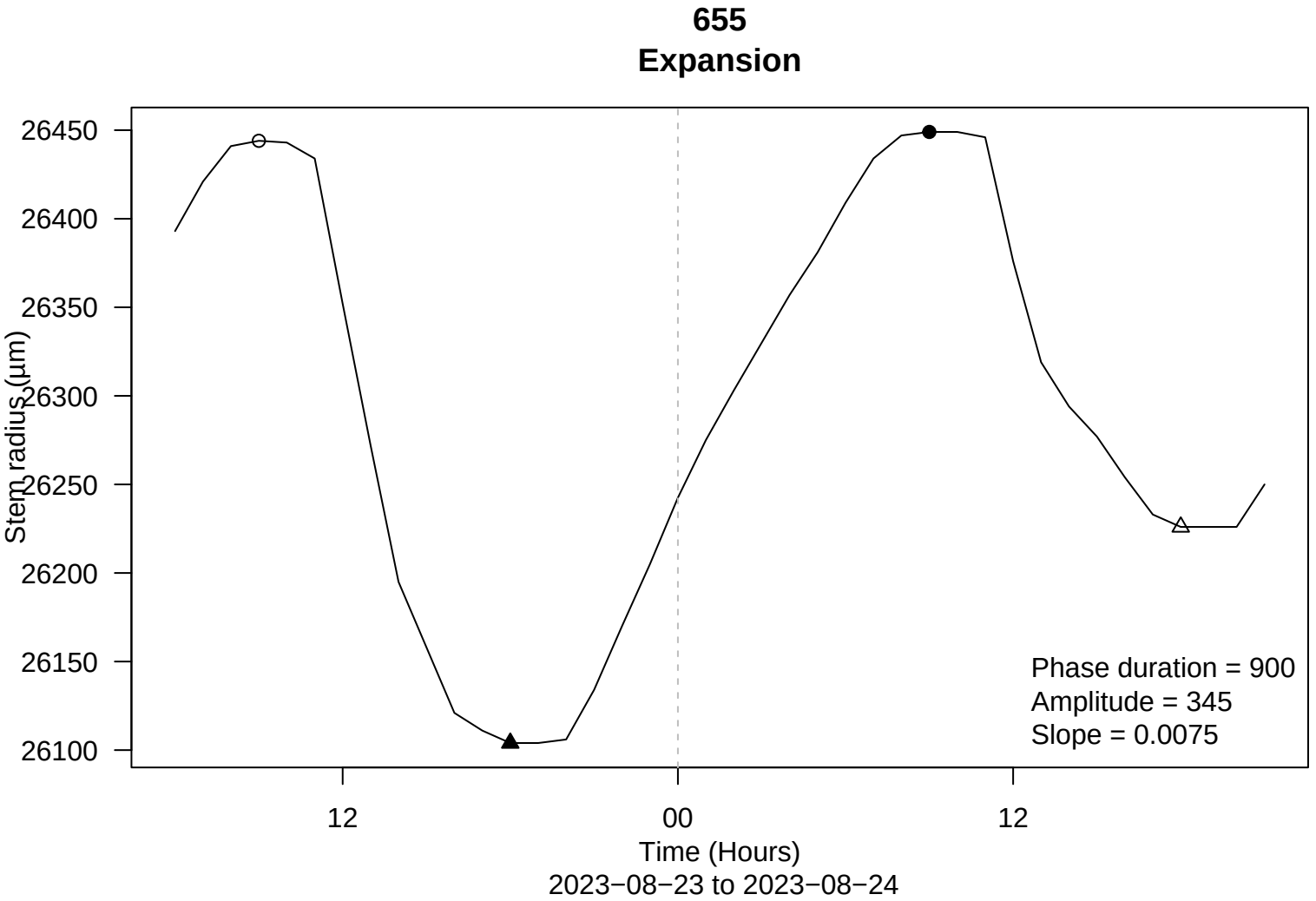

655
Shrinkage
26500
26450
26400
26350
26300
26250
26200
Stem radius (µm)
Phase duration = 540
Amplitude = −327
Slope = −0.0119
00
12
00
Time (Hours)
2023−08−21 to 2023−08−21

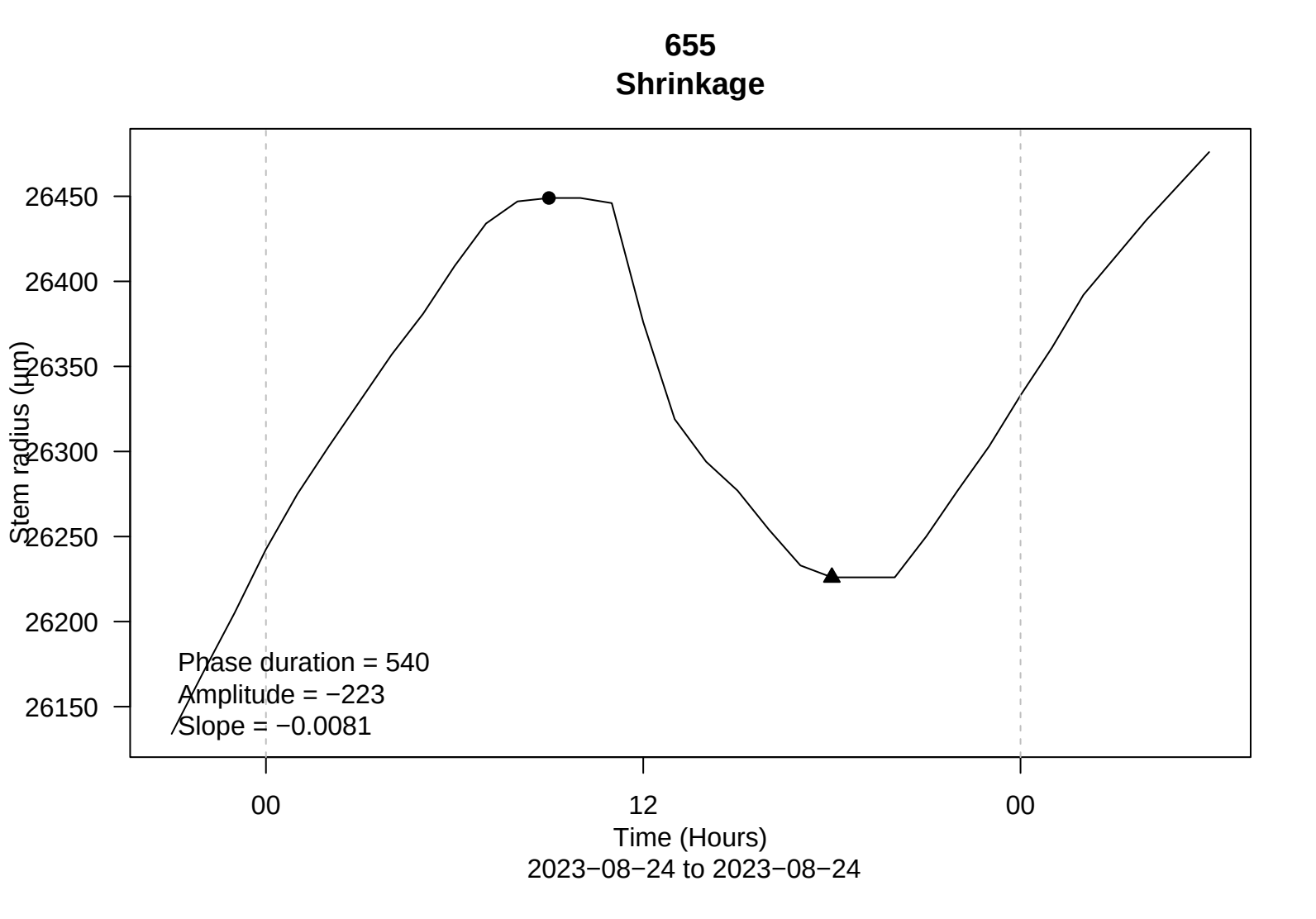

655
Expansion
26500
26400
26300
26200
26100
26000
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−21 to 2023−08−22
Phase duration = 840
Amplitude = 349
Slope = 0.0082

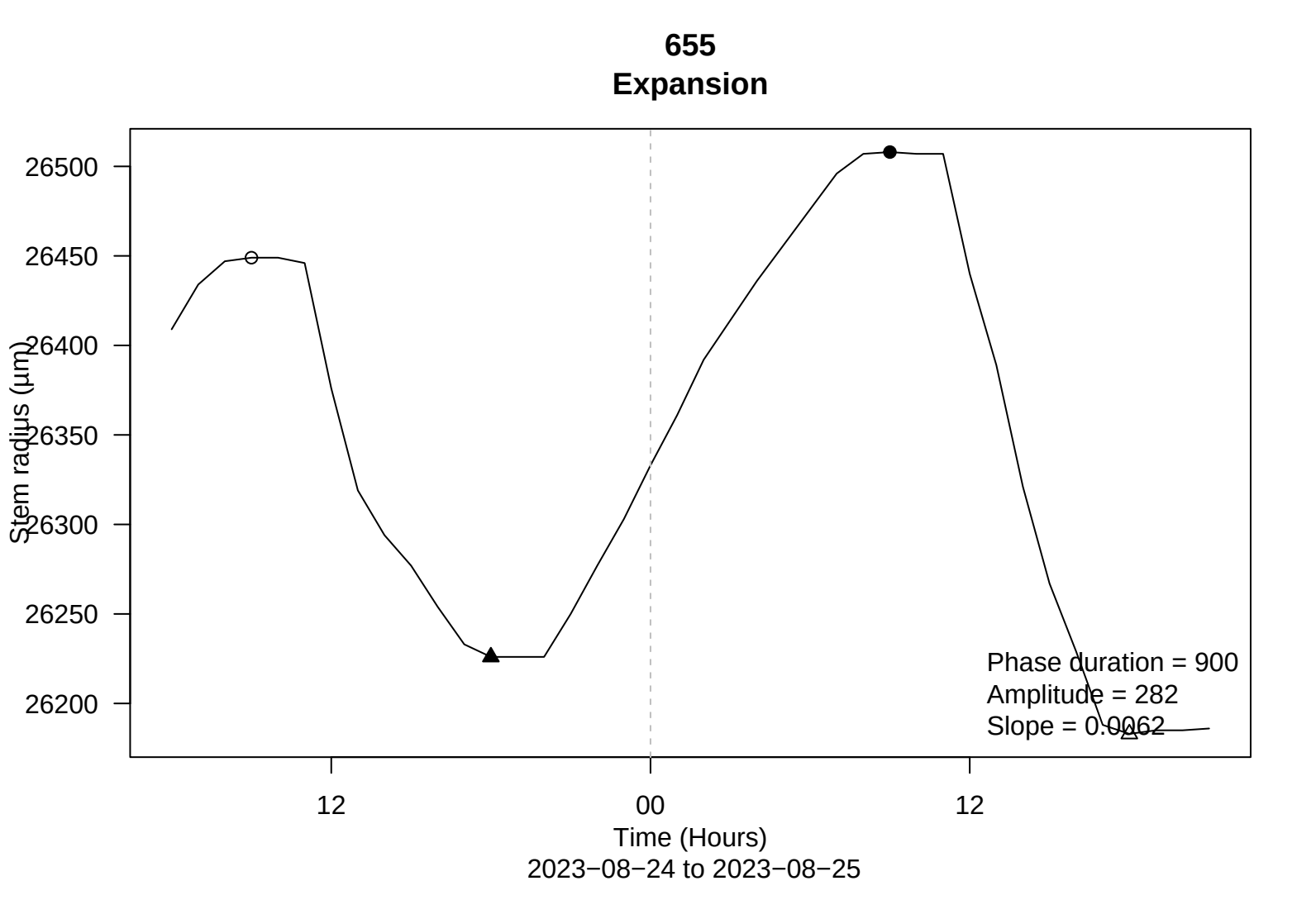

655
Shrinkage
26500
26400
26300
26200
26100
26000
Stem radius (µm)
Phase duration = 540
Amplitude = −499
Slope = −0.018
00
12
00
Time (Hours)
2023−08−22 to 2023−08−22

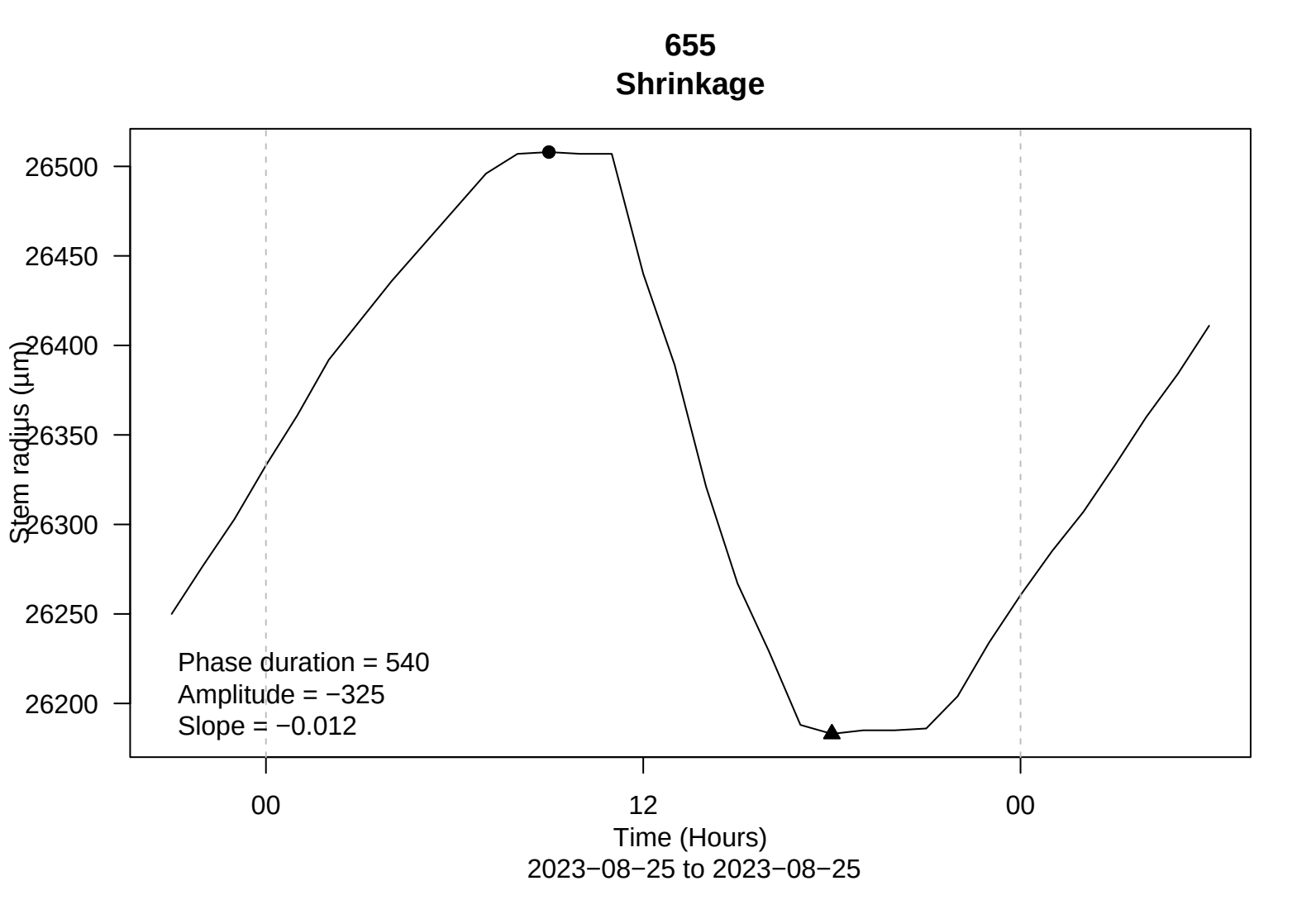

655
Expansion
26500
26400
26300
26200
26100
26000
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−22 to 2023−08−23
Phase duration = 960
Amplitude = 425
Slope = 0.0087

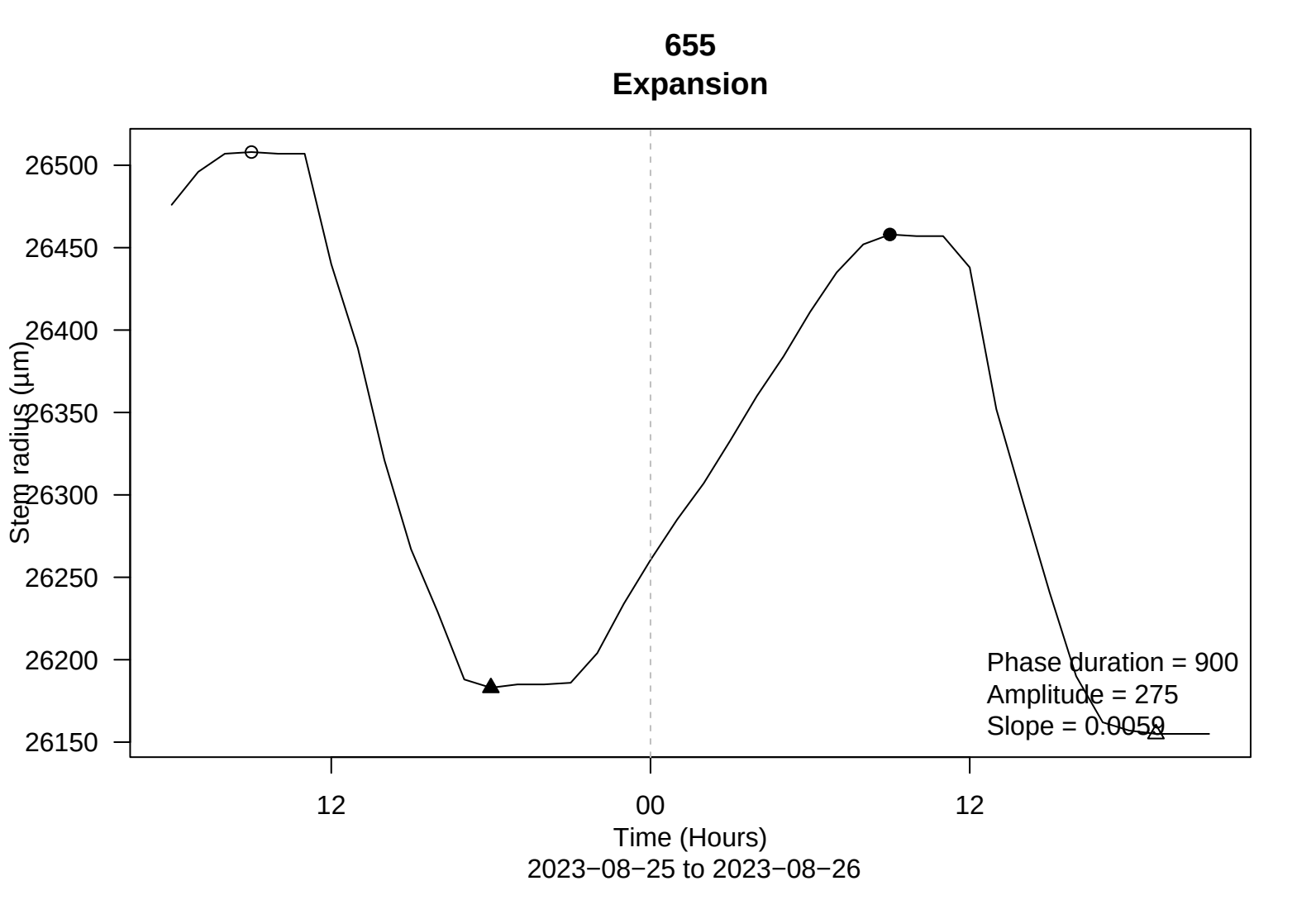

655
Shrinkage
26400
26300
26200
26100
Stem radius (µm)
Phase duration = 540
Amplitude = −340
Slope = −0.0128
00
12
00
Time (Hours)
2023−08−23 to 2023−08−23

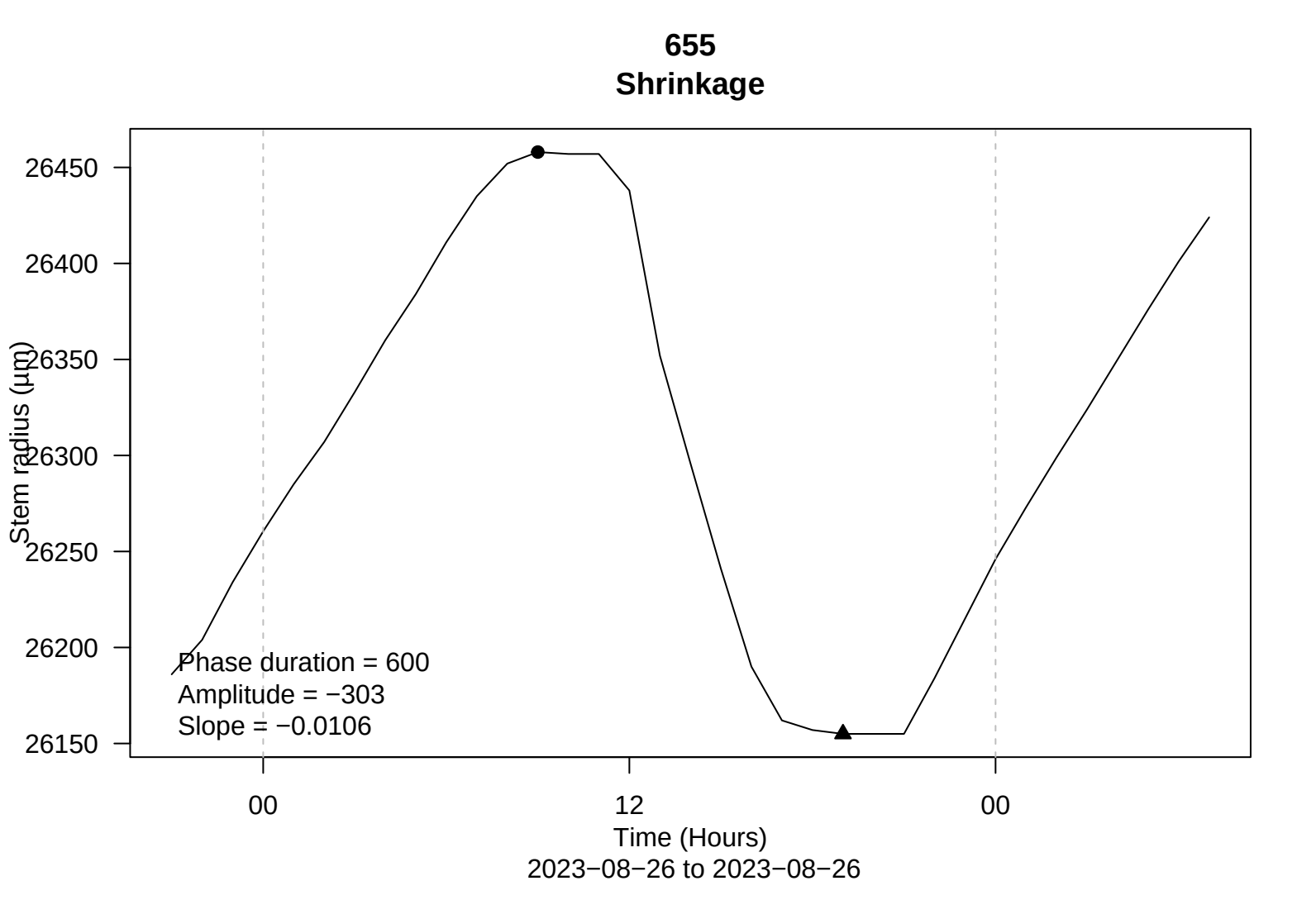

655
Expansion
26450
26400
26350
26300
26250
26200
26150
26100
Stem radius (µm)
Phase duration = 900
Amplitude = 345
Slope = 0.0075
12
00
12
Time (Hours)
2023−08−23 to 2023−08−24

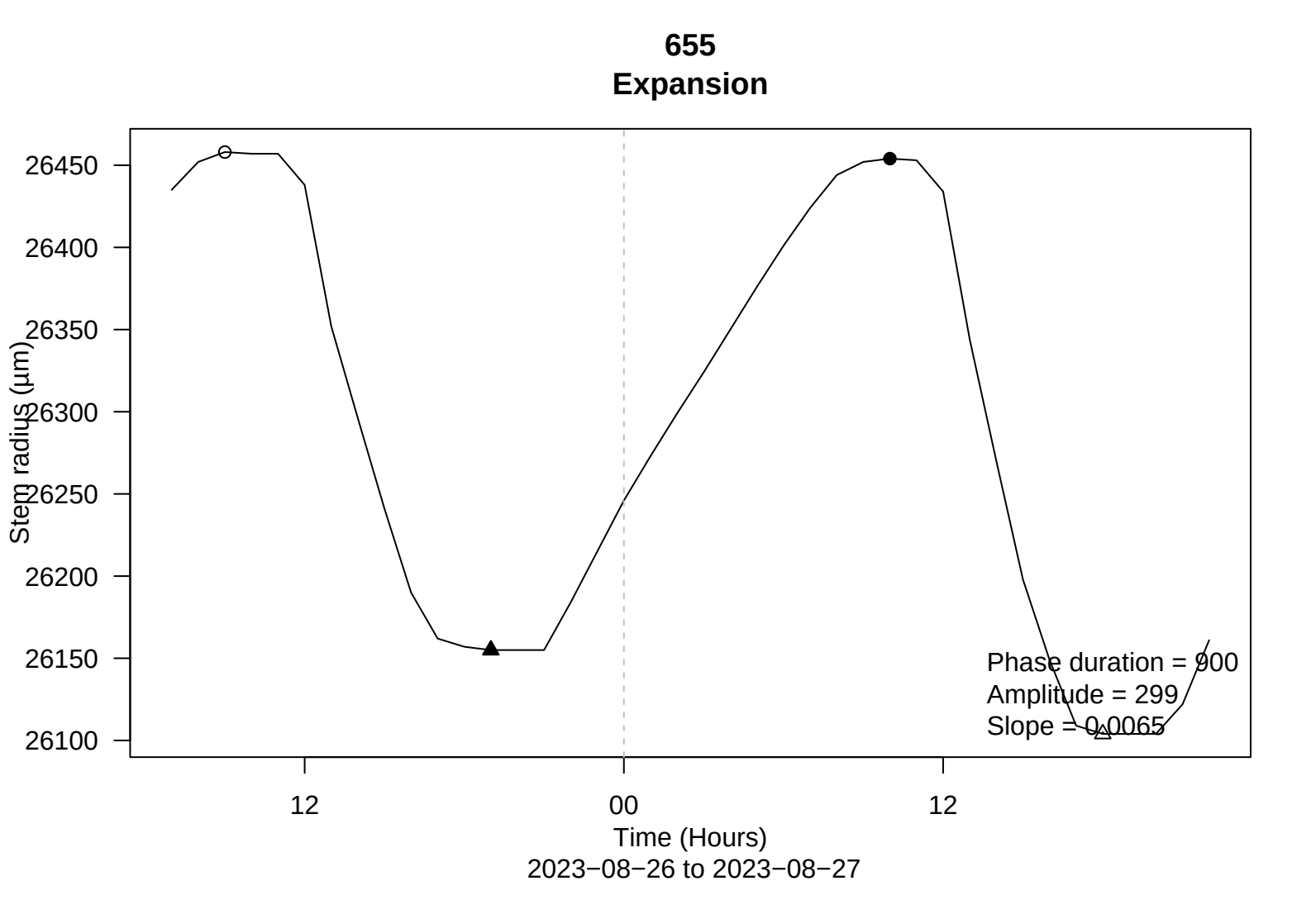

655
Shrinkage
26450
26400
26350
26300
26250
26200
26150
Stem radius (µm)
Phase duration = 540
Amplitude = −223
Slope = −0.0081
00
12
00
Time (Hours)
2023−08−24 to 2023−08−24

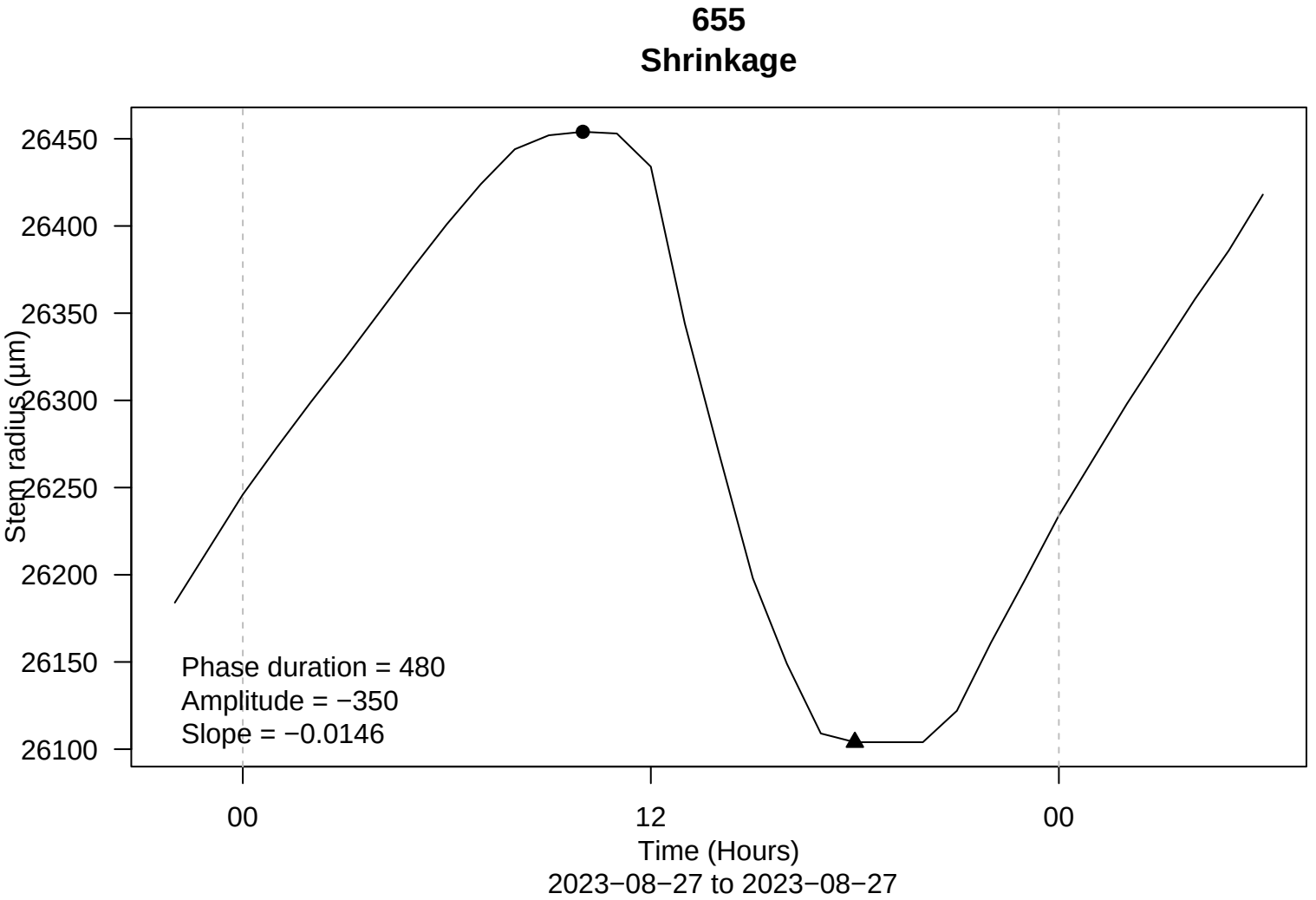

655
Expansion
26500
26450
26400
26350
26300
26250
26200
Stem radius (µm)
Phase duration = 900
Amplitude = 282
Slope = 0.0062
12
00
12
Time (Hours)
2023−08−24 to 2023−08−25

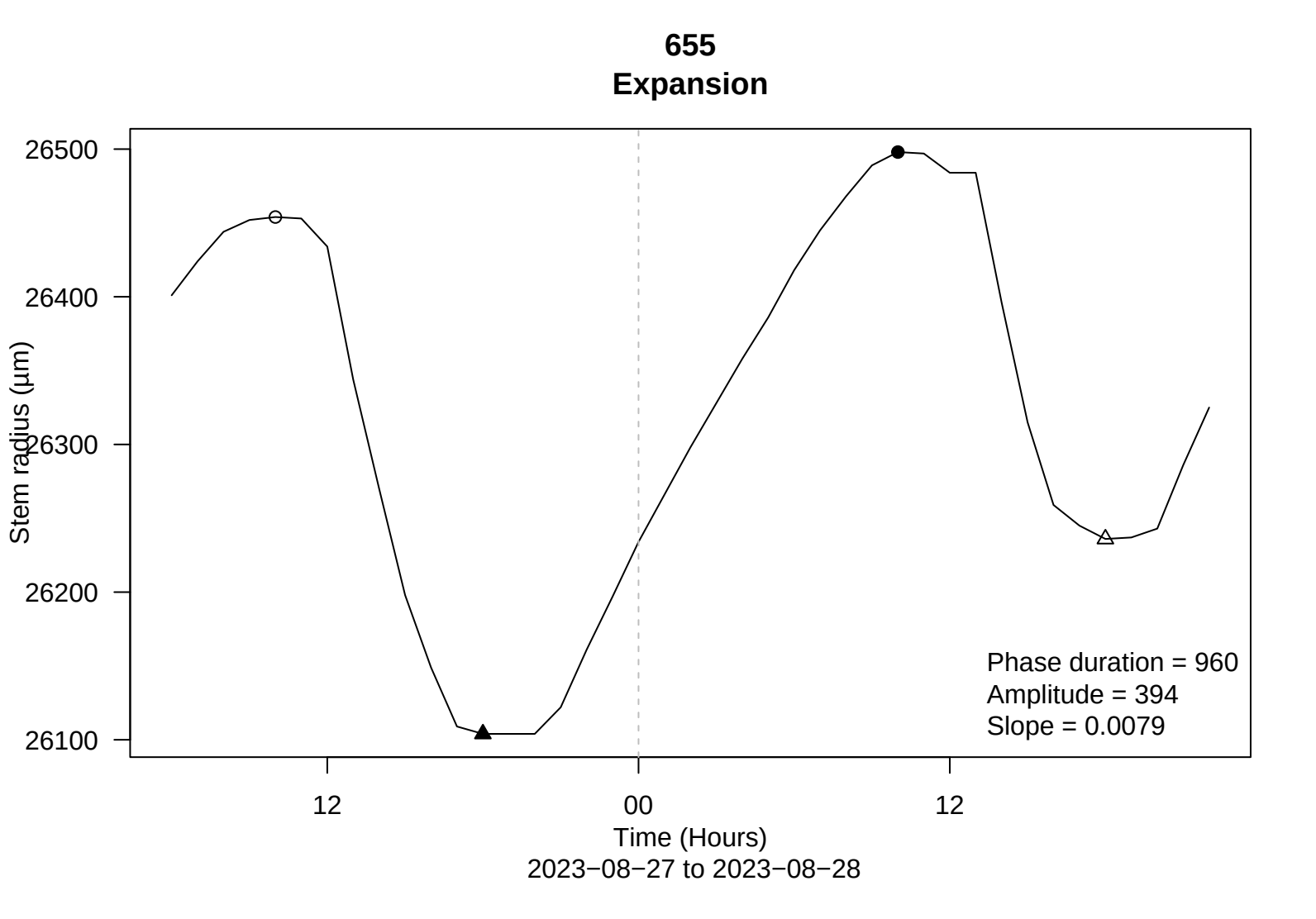

655
Shrinkage
26500
26450
26400
26350
26300
26250
26200
Stem radius (µm)
Phase duration = 540
Amplitude = −325
Slope = −0.012
00
12
00
Time (Hours)
2023−08−25 to 2023−08−25

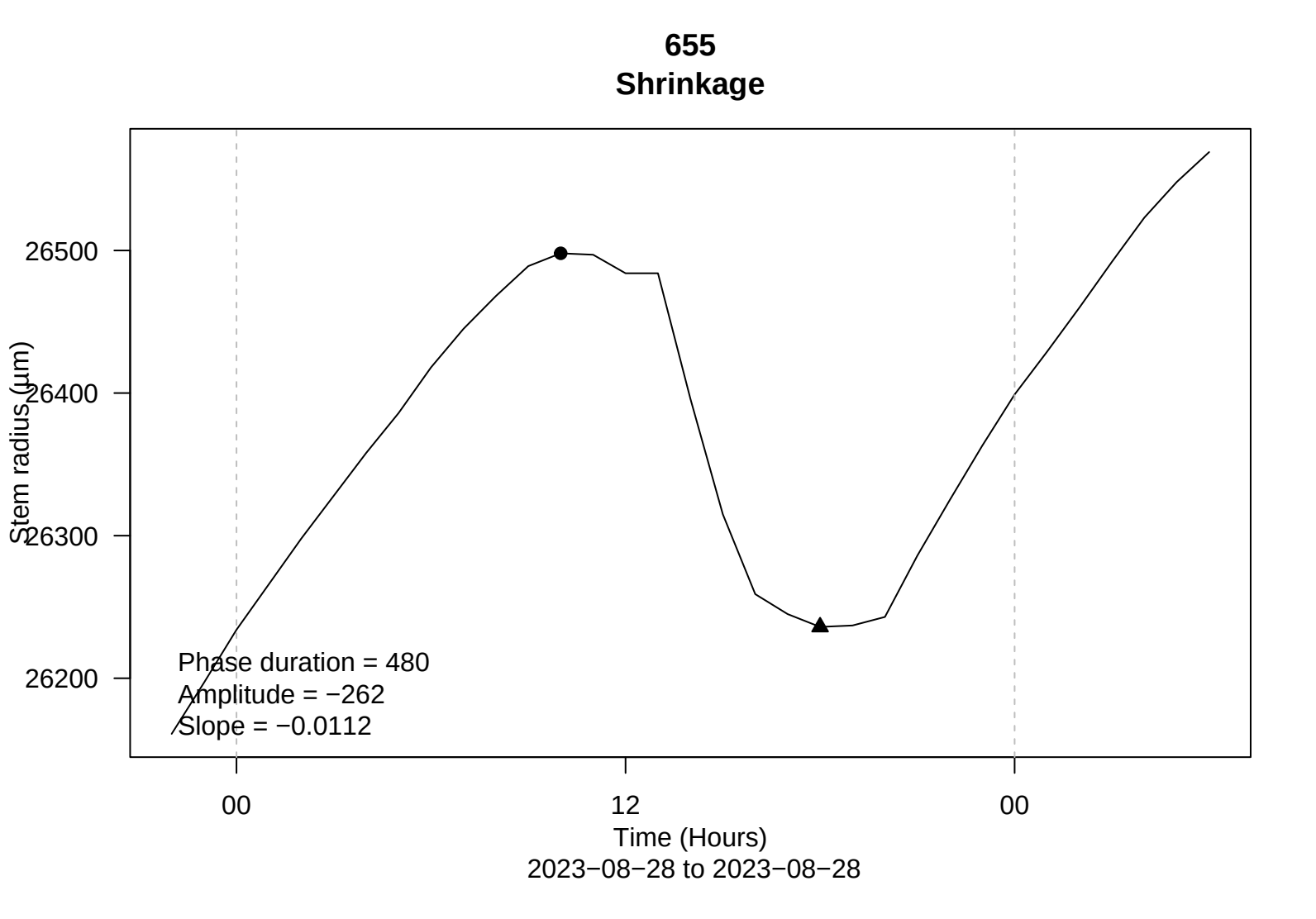

655
Expansion
26500
26450
26400
26350
26300
26250
26200
26150
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−25 to 2023−08−26
Phase duration = 900
Amplitude = 275
Slope = 0.0059

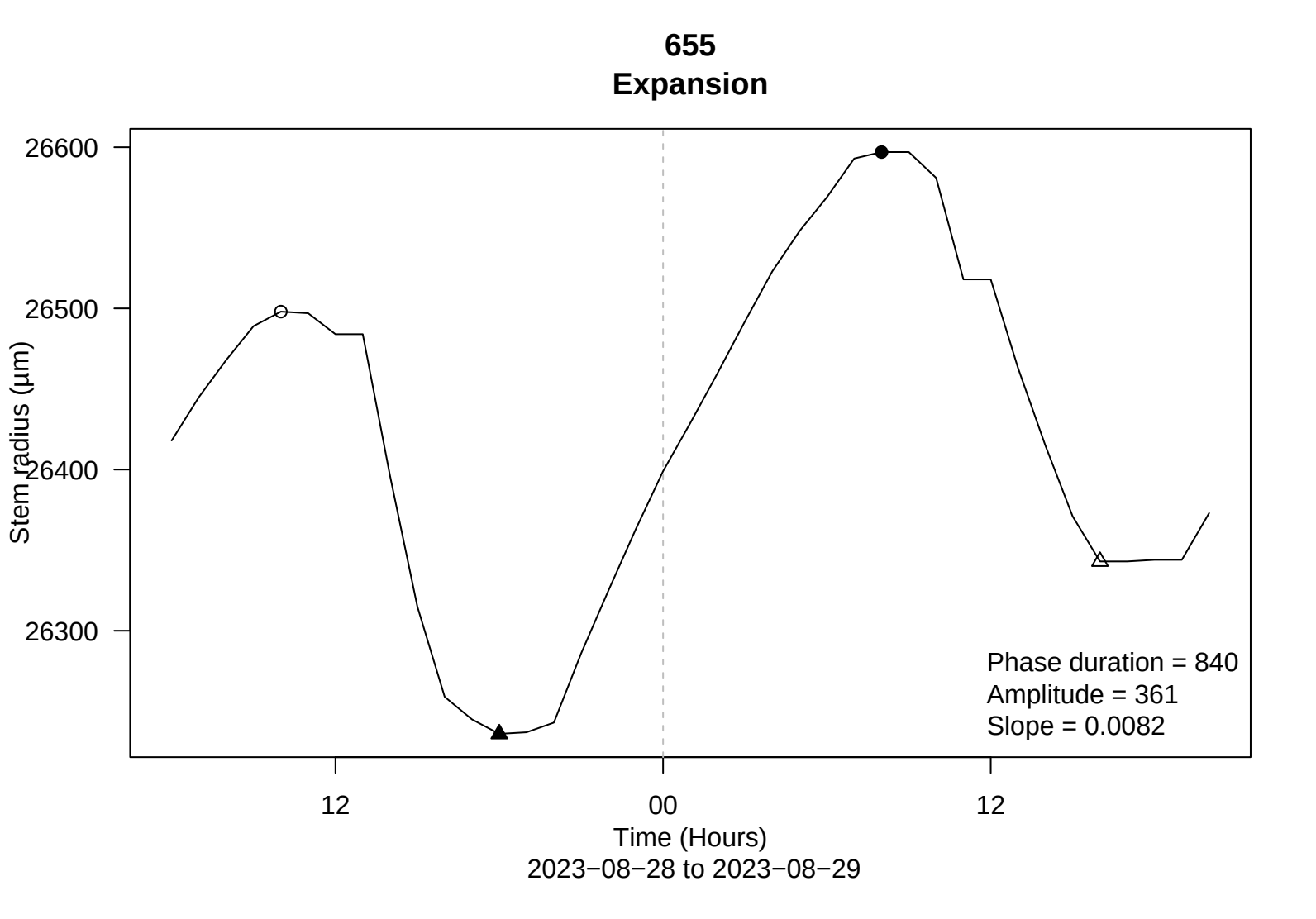

655
Shrinkage
26450
26400
26350
26300
26250
26200
26150
Stem radius (µm)
Phase duration = 600
Amplitude = −303
Slope = −0.0106
00
12
00
Time (Hours)
2023−08−26 to 2023−08−26

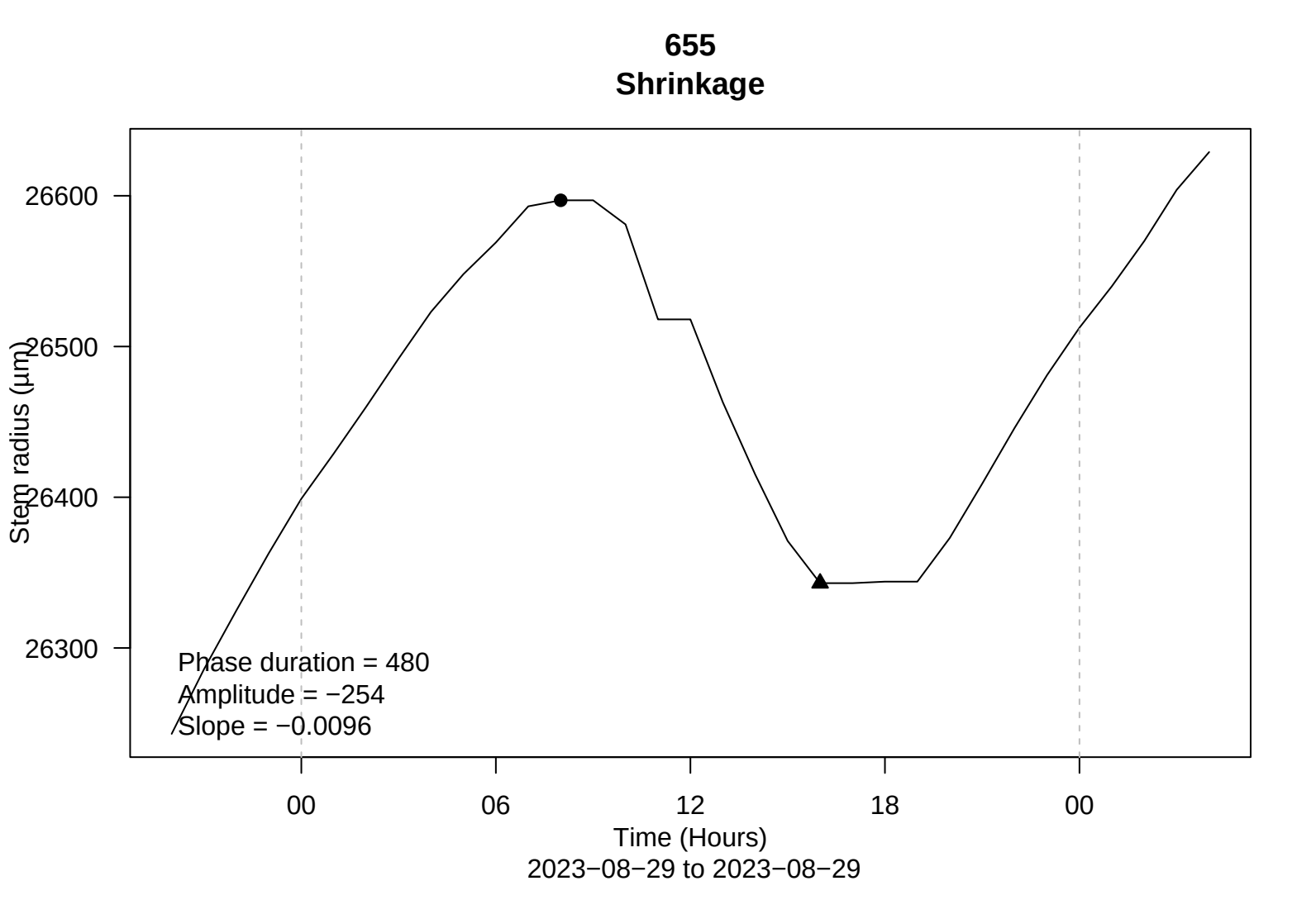

655
Expansion
26450
26400
26350
26300
26250
26200
26150
26100
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−26 to 2023−08−27
Phase duration = 900
Amplitude = 299
Slope = 0.0065

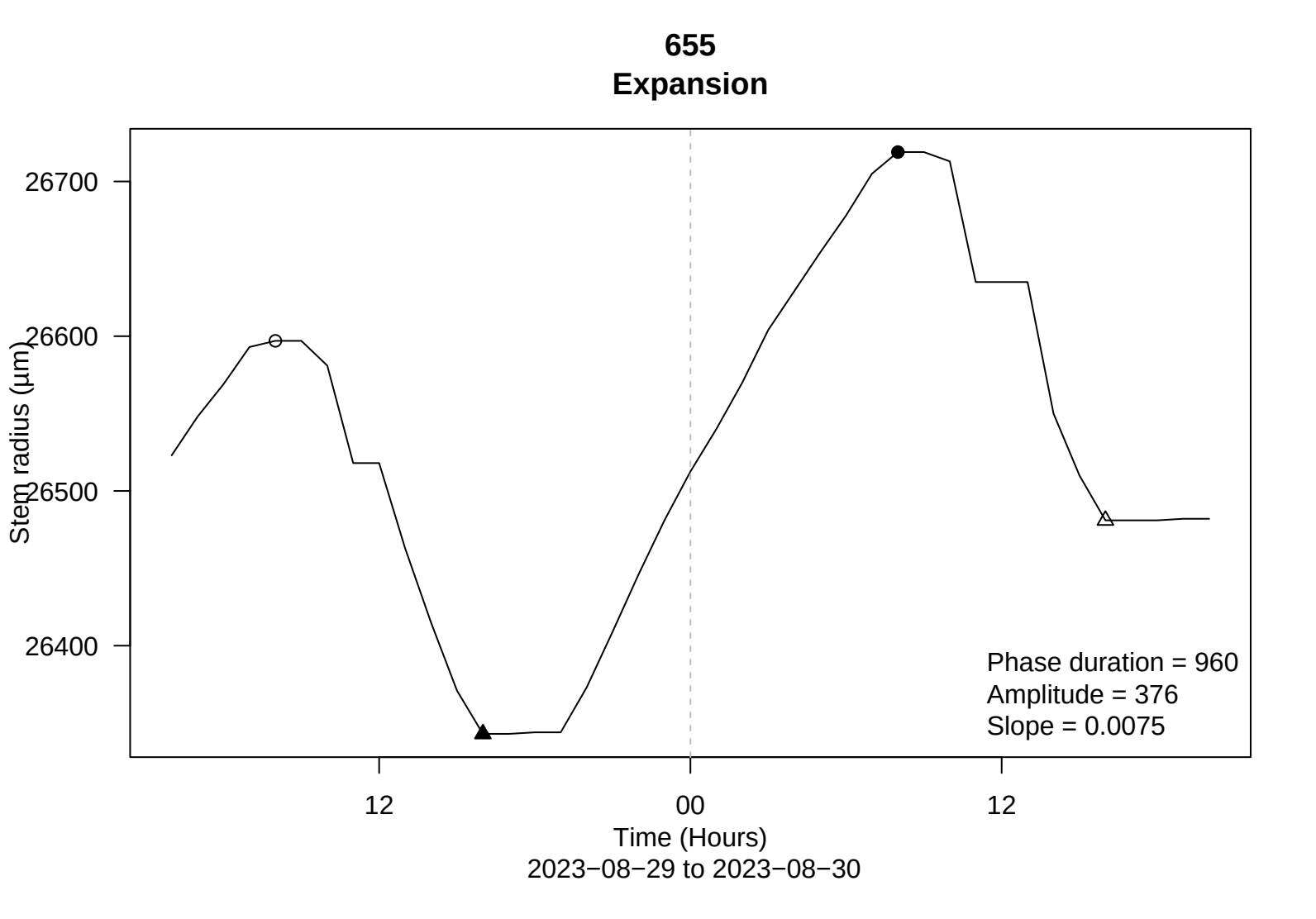

655
Shrinkage
26450
26400
26350
26300
26250
26200
26150
26100
Stem radius (µm)
Phase duration = 480
Amplitude = −350
Slope = −0.0146
00
12
00
Time (Hours)
2023−08−27 to 2023−08−27

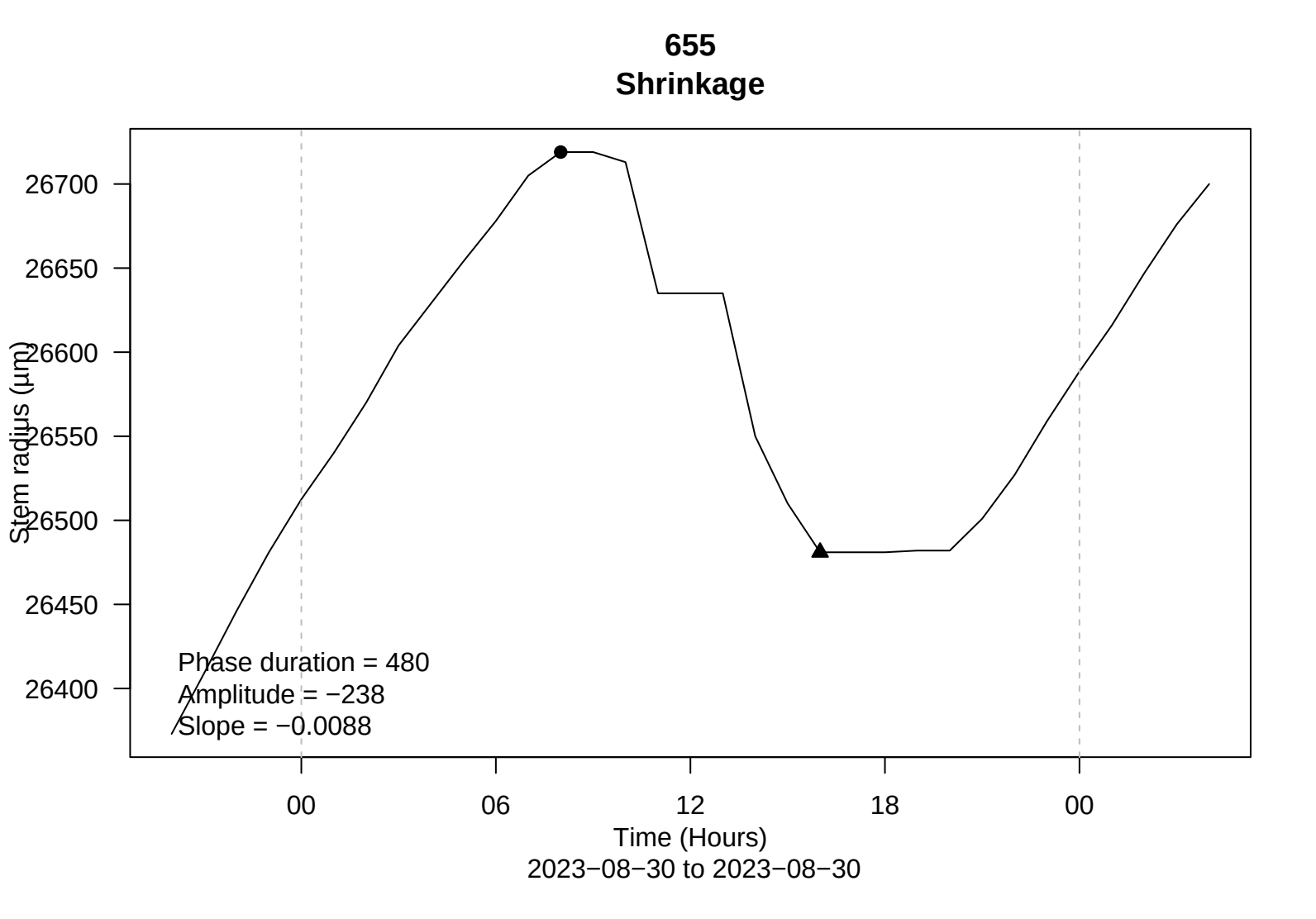

655
Expansion
26500
26400
26300
26200
26100
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−27 to 2023−08−28
Phase duration = 960
Amplitude = 394
Slope = 0.0079

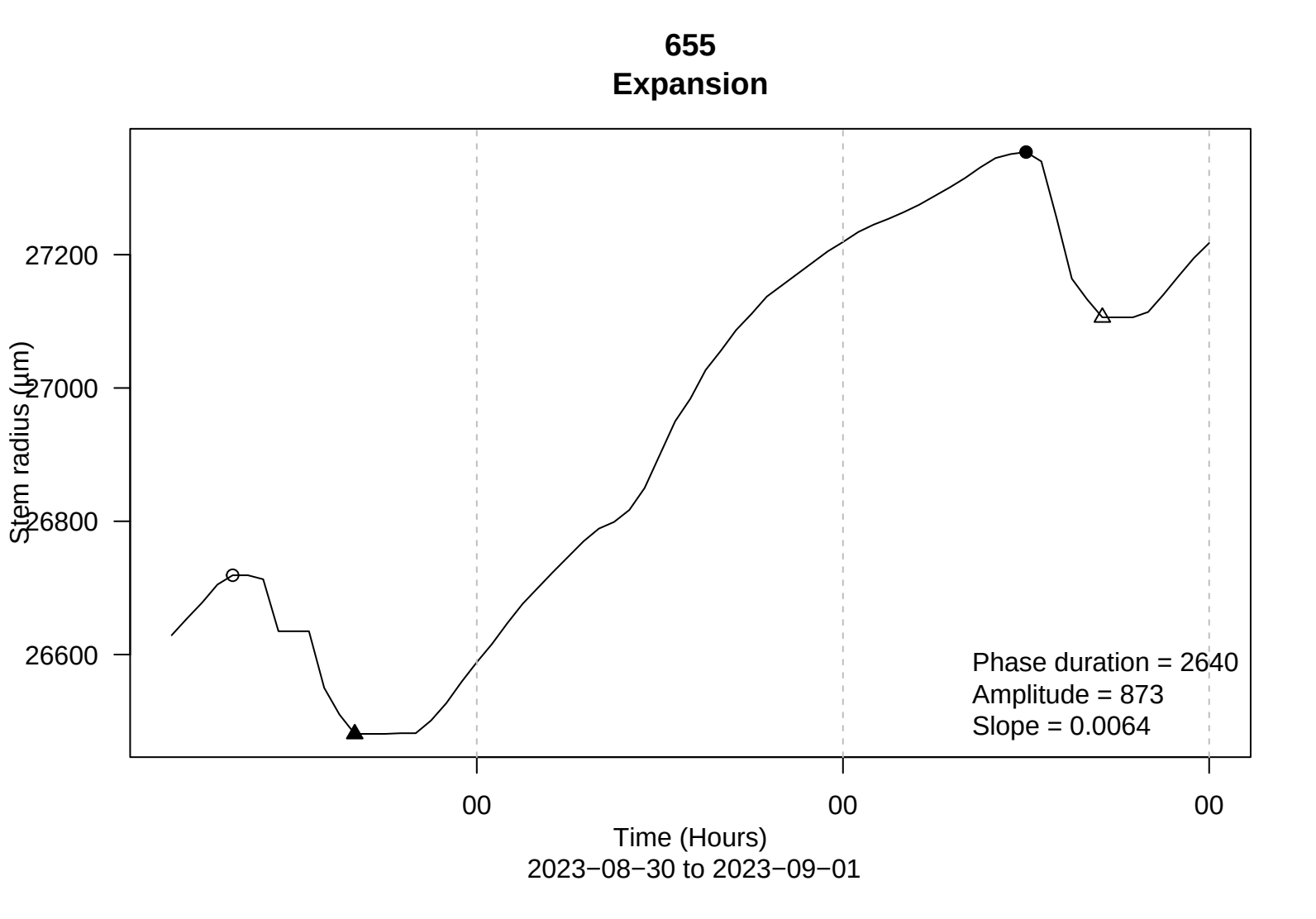

655
Shrinkage
26500
26400
26300
26200
Stem radius (µm)
Phase duration = 480
Amplitude = −262
Slope = −0.0112
00
12
00
Time (Hours)
2023−08−28 to 2023−08−28

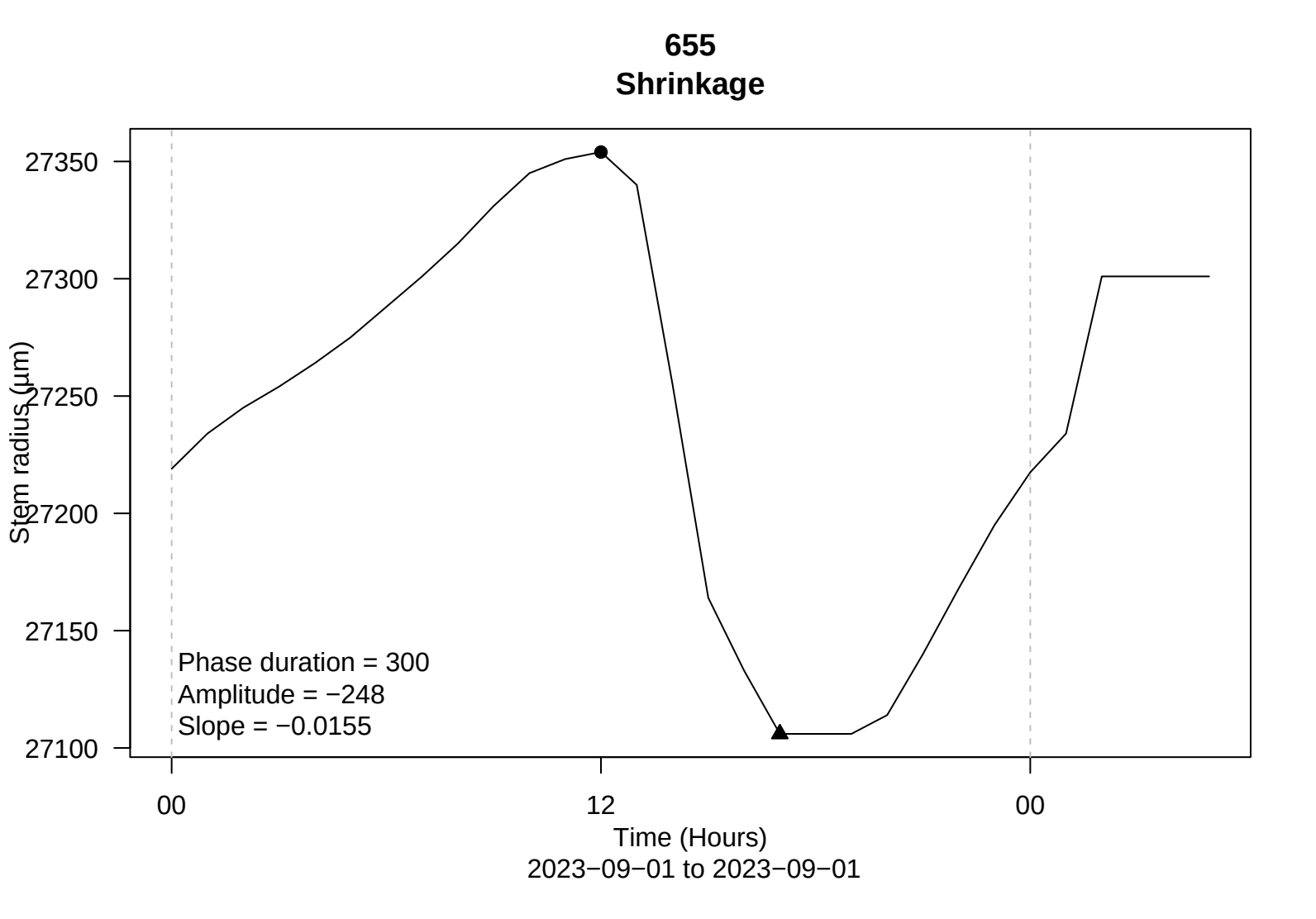

655
Expansion
26600
26500
26400
26300
Stem radius (µm)
Phase duration = 840
Amplitude = 361
Slope = 0.0082
12
00
12
Time (Hours)
2023−08−28 to 2023−08−29

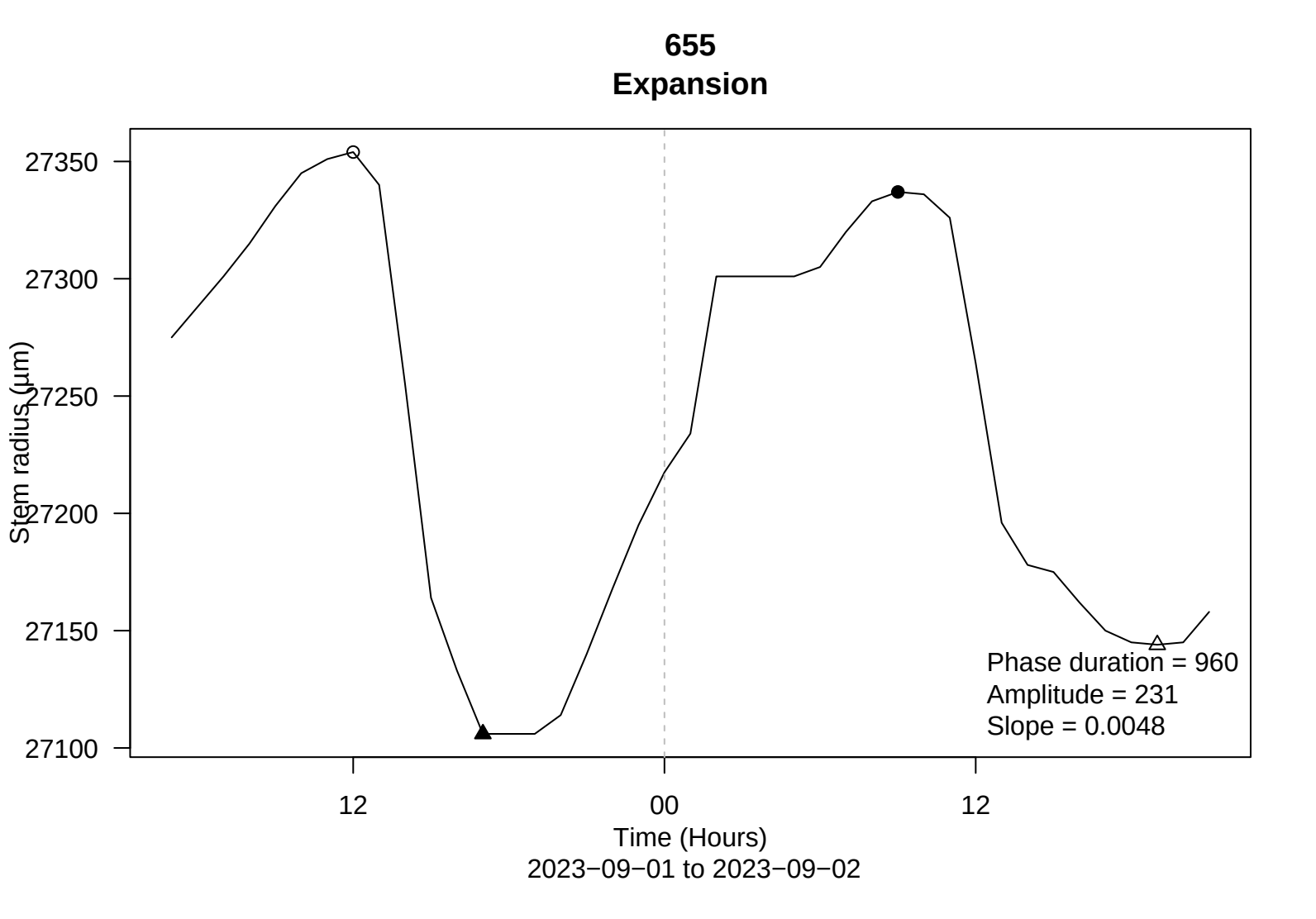

655
Shrinkage
26600
26500
26400
26300
Stem radius (µm)
Phase duration = 480
Amplitude = −254
Slope = −0.0096
00
06
12
18
00
Time (Hours)
2023−08−29 to 2023−08−29

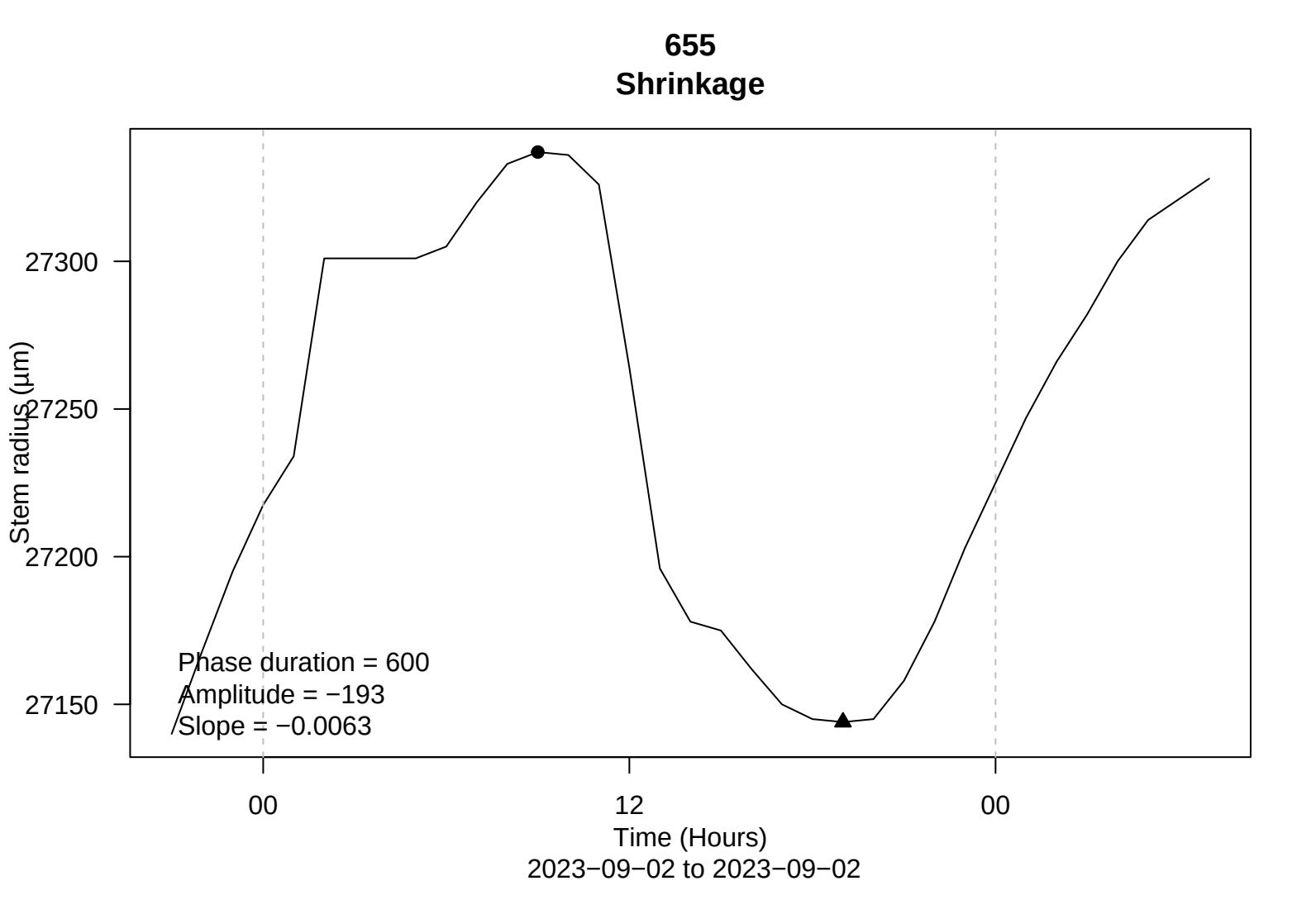

655
Expansion
26700
26600
26500
26400
Stem radius (µm)
Phase duration = 960
Amplitude = 376
Slope = 0.0075
12
00
12
Time (Hours)
2023−08−29 to 2023−08−30

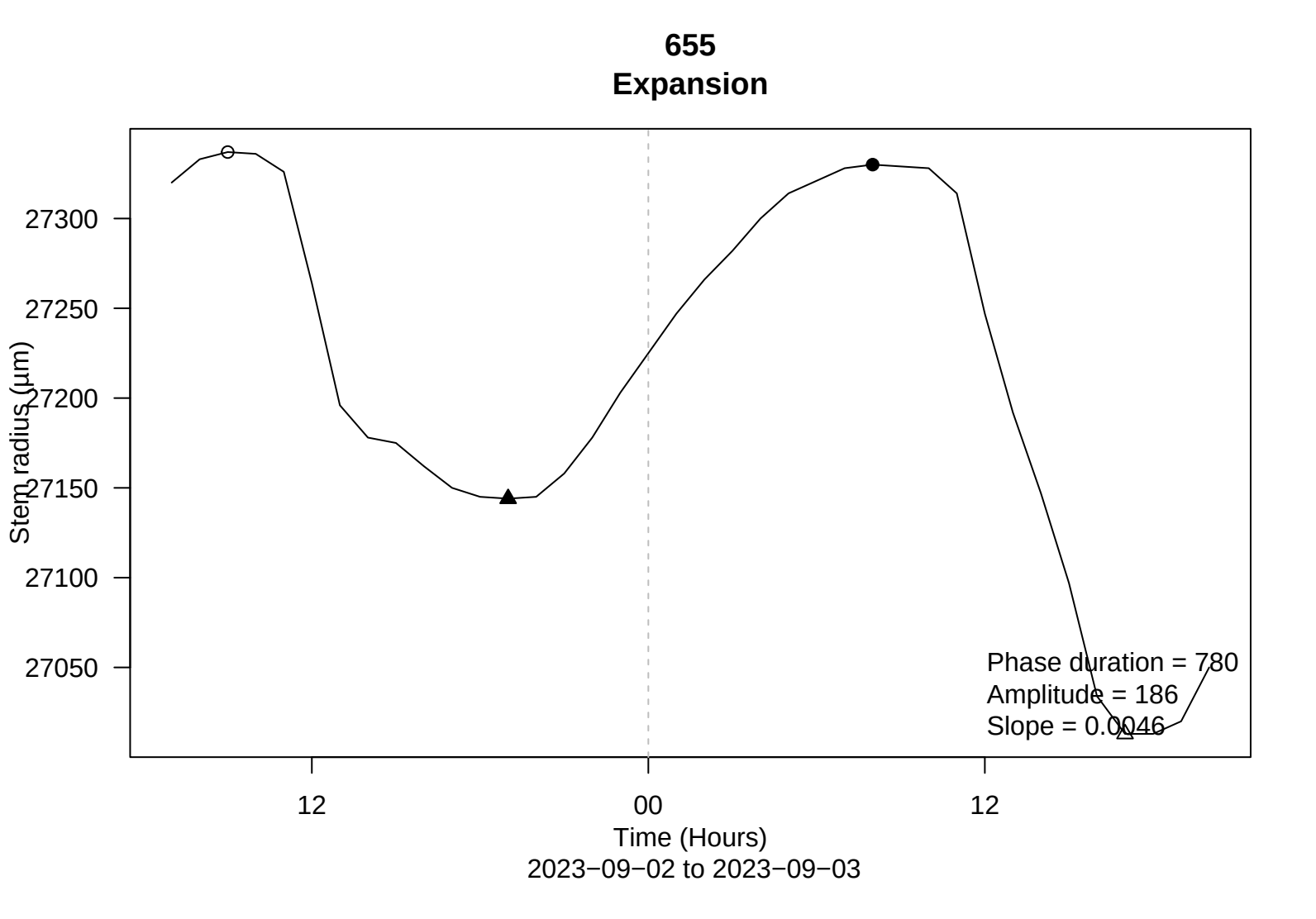

655
Shrinkage
26700
26650
26600
26550
26500
26450
26400
Stem radius (µm)
Phase duration = 480
Amplitude = −238
Slope = −0.0088
00
06
12
18
00
Time (Hours)
2023−08−30 to 2023−08−30

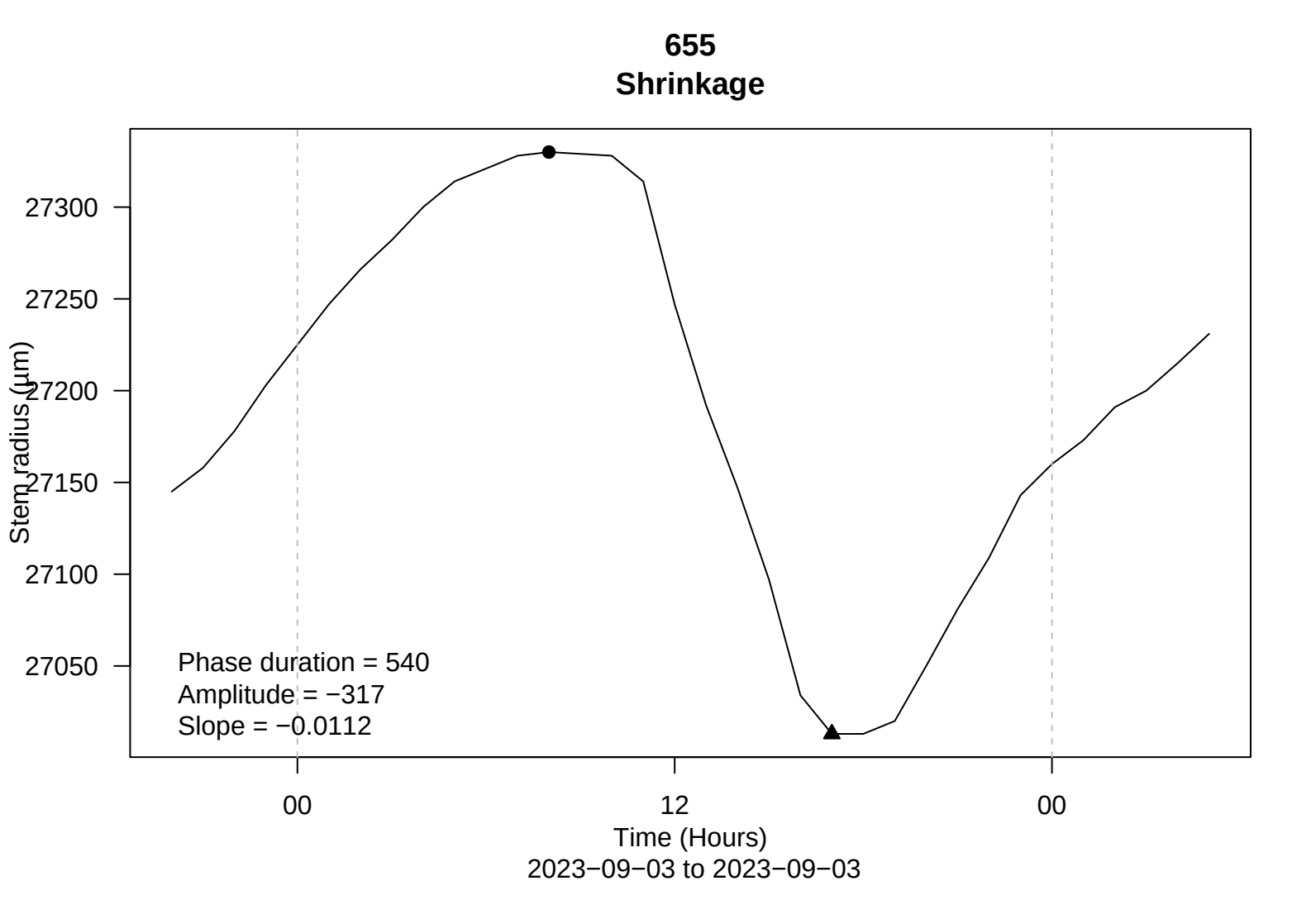

655
Expansion
27200
27000
26800
26600
Stem radius (µm)
00
00
00
Time (Hours)
2023−08−30 to 2023−09−01
Phase duration = 2640
Amplitude = 873
Slope = 0.0064

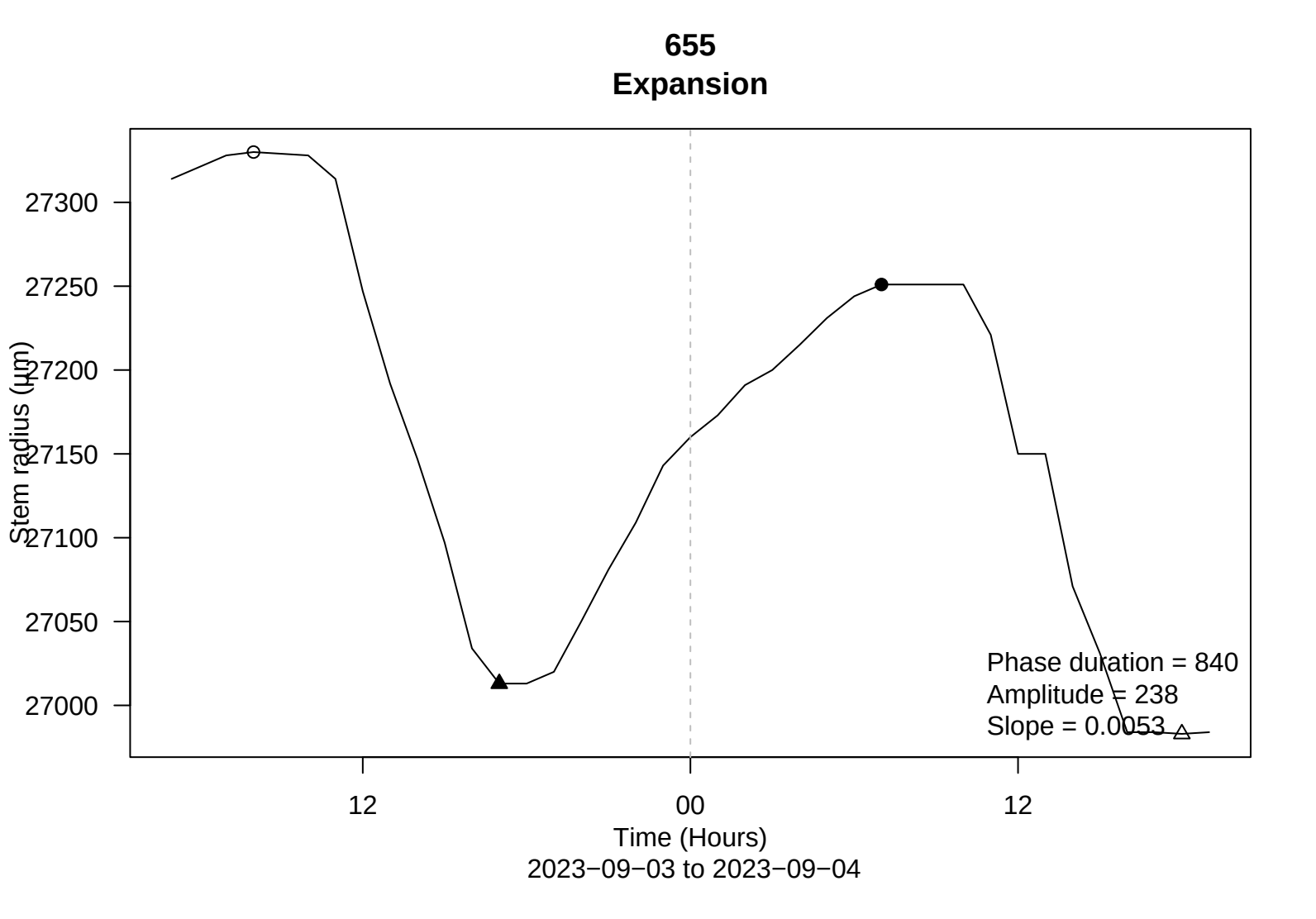

655
Shrinkage
27350
27300
27250
27200
27150
27100
Stem radius (µm)
Phase duration = 300
Amplitude = −248
Slope = −0.0155
00
12
00
Time (Hours)
2023−09−01 to 2023−09−01

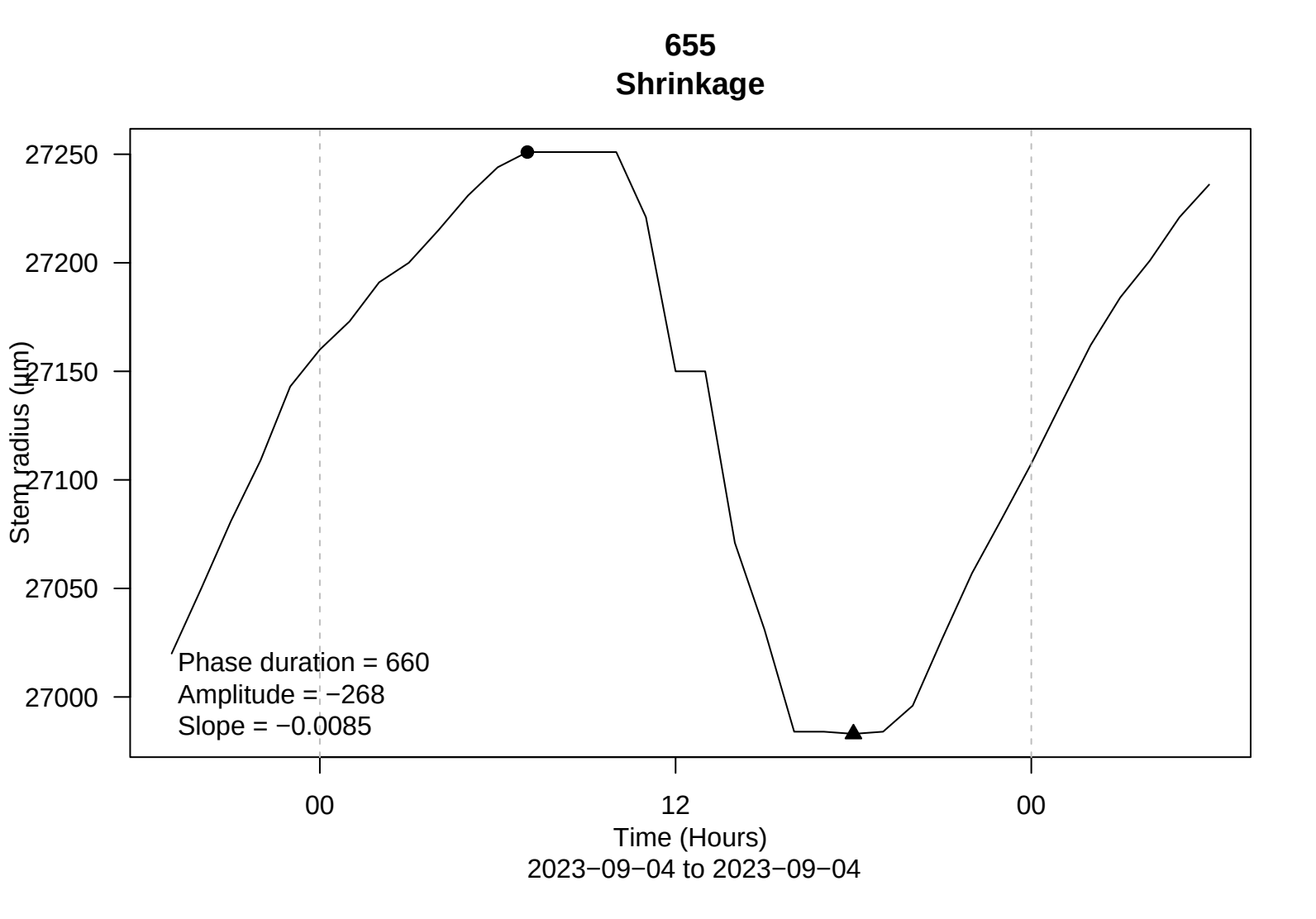

655
Expansion
27350
27300
27250
27200
27150
27100
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−01 to 2023−09−02
Phase duration = 960
Amplitude = 231
Slope = 0.0048

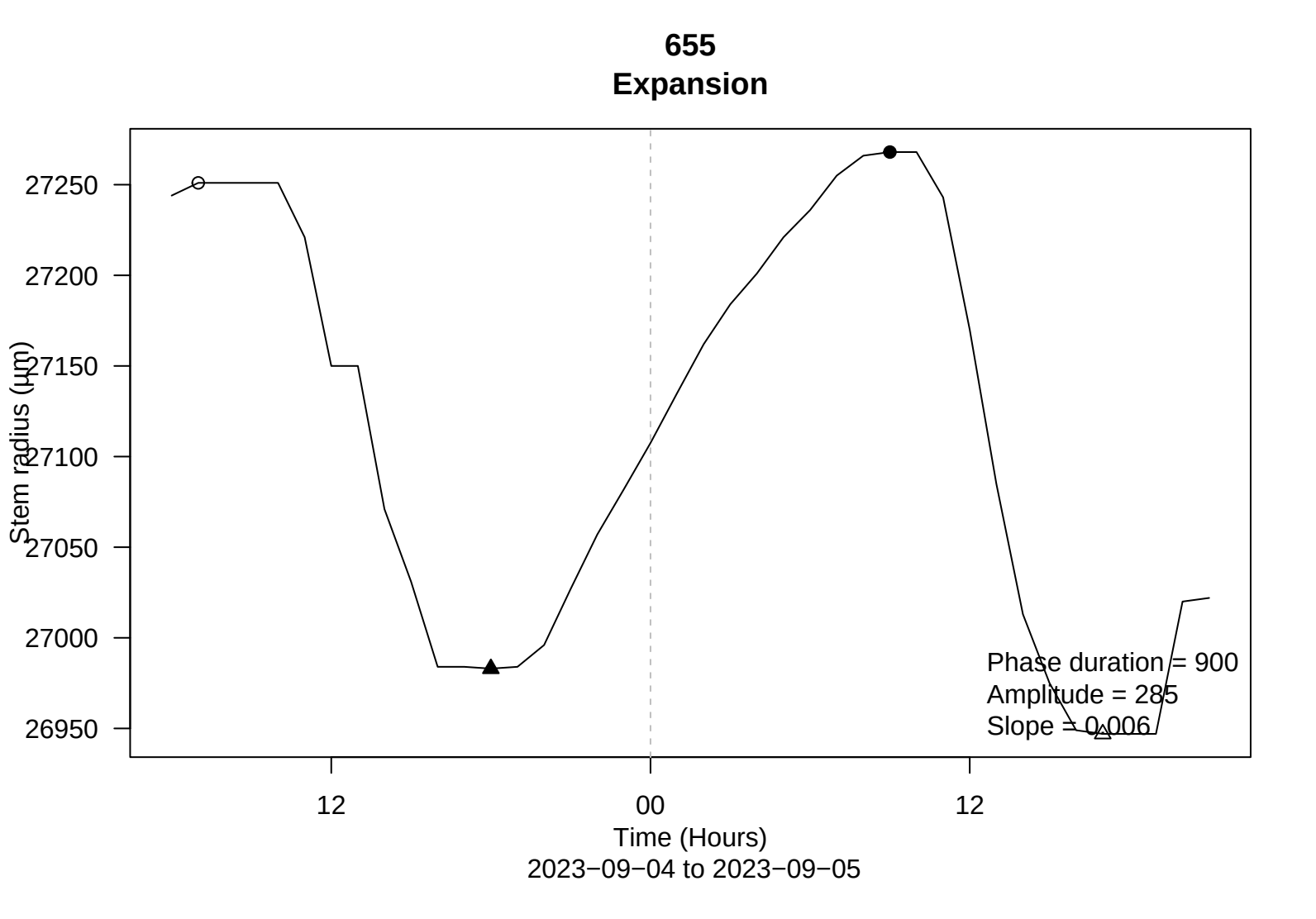

655
Shrinkage
27300
27250
27200
27150
Stem radius (µm)
Phase duration = 600
Amplitude = −193
Slope = −0.0063
00
12
00
Time (Hours)
2023−09−02 to 2023−09−02

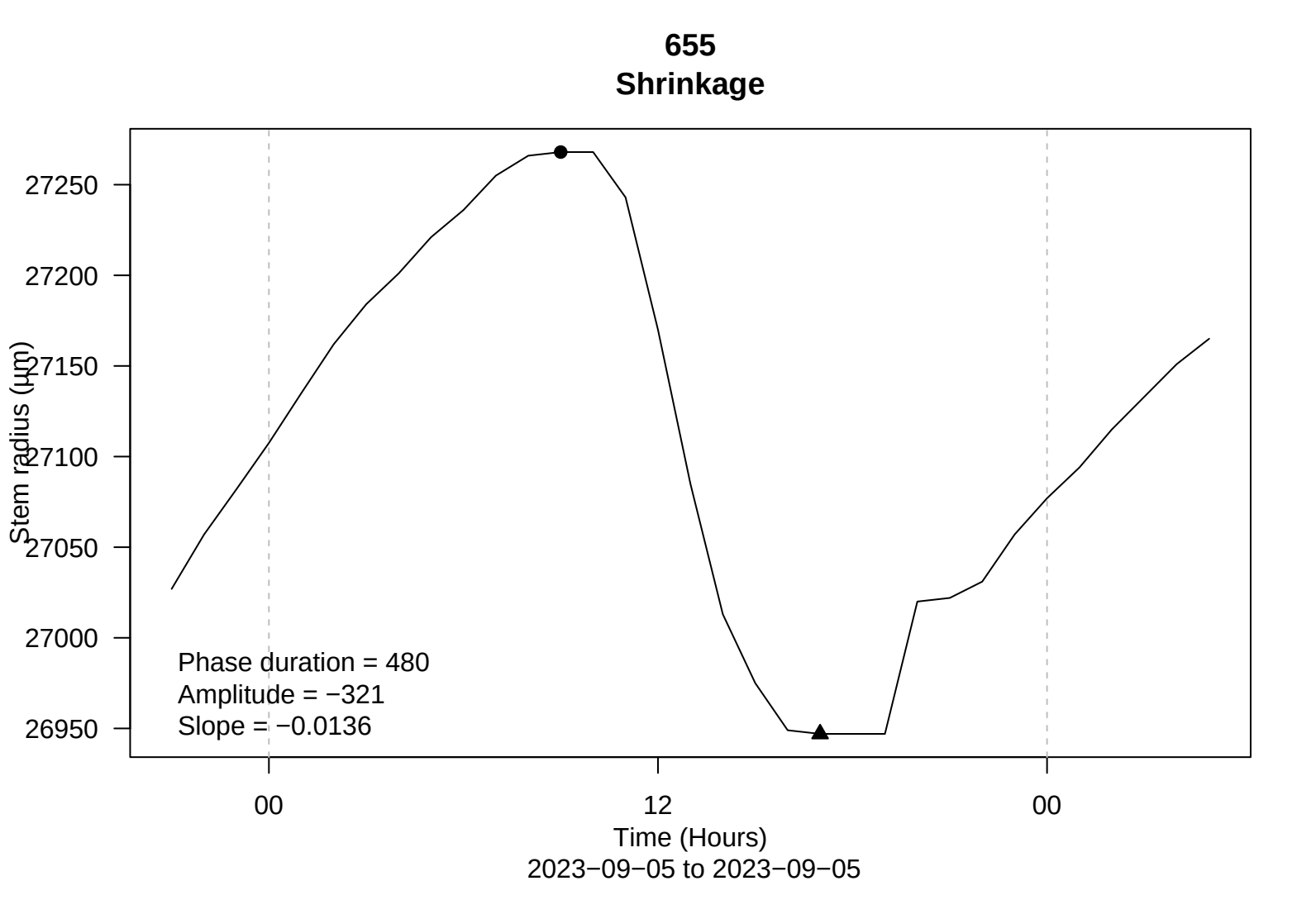

655
Expansion
27300
27250
27200
27150
27100
27050
Stem radius (µm)
Phase duration = 780
Amplitude = 186
Slope = 0.0046
12
00
12
Time (Hours)
2023−09−02 to 2023−09−03

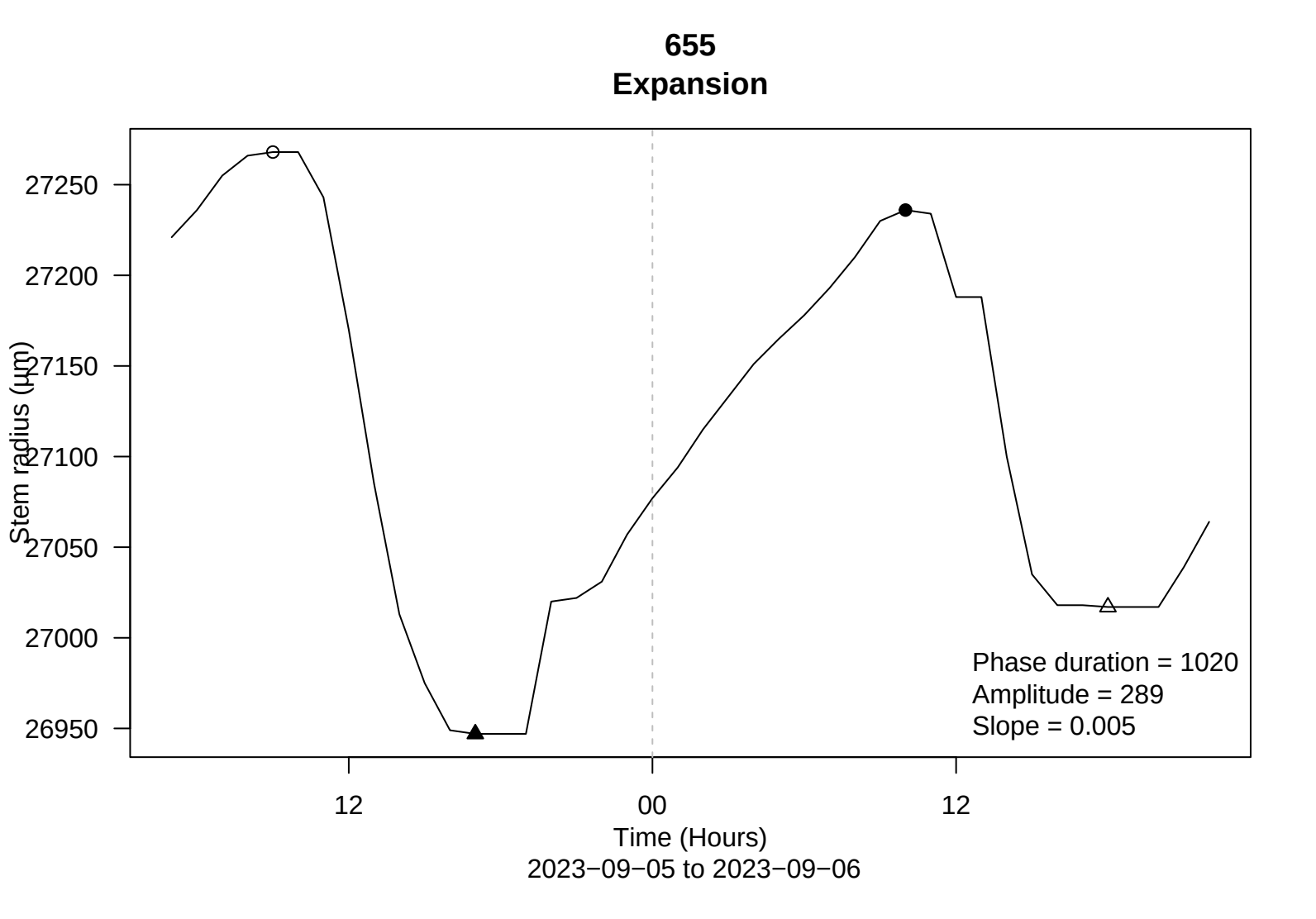

655
Shrinkage
27300
27250
27200
27150
27100
27050
Stem radius (µm)
Phase duration = 540
Amplitude = −317
Slope = −0.0112
00
12
00
Time (Hours)
2023−09−03 to 2023−09−03

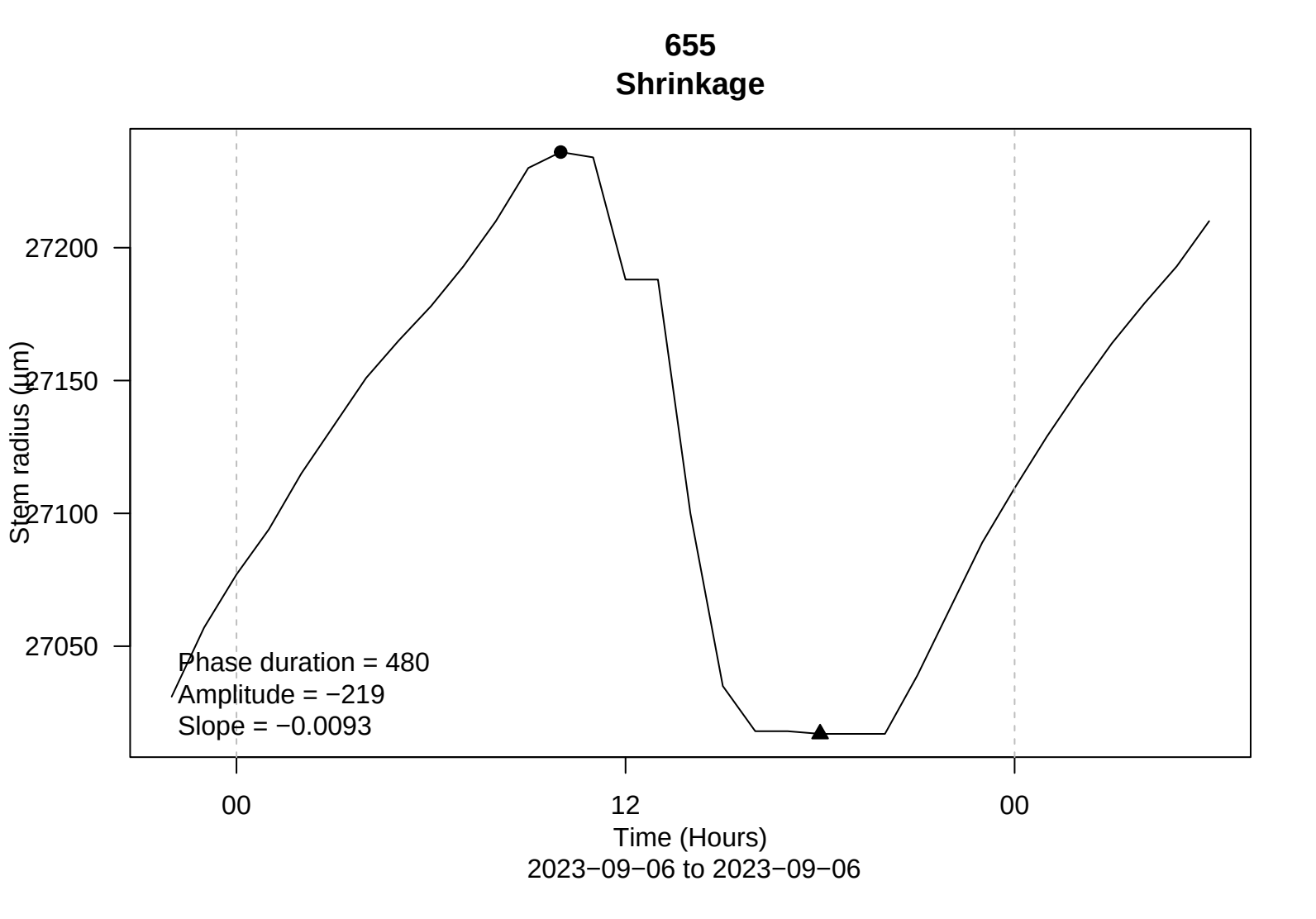

655
Expansion
27300
27250
27200
27150
27100
27050
27000
Stem radius (µm)
Phase duration = 840
Amplitude = 238
Slope = 0.0053
12
00
12
Time (Hours)
2023−09−03 to 2023−09−04

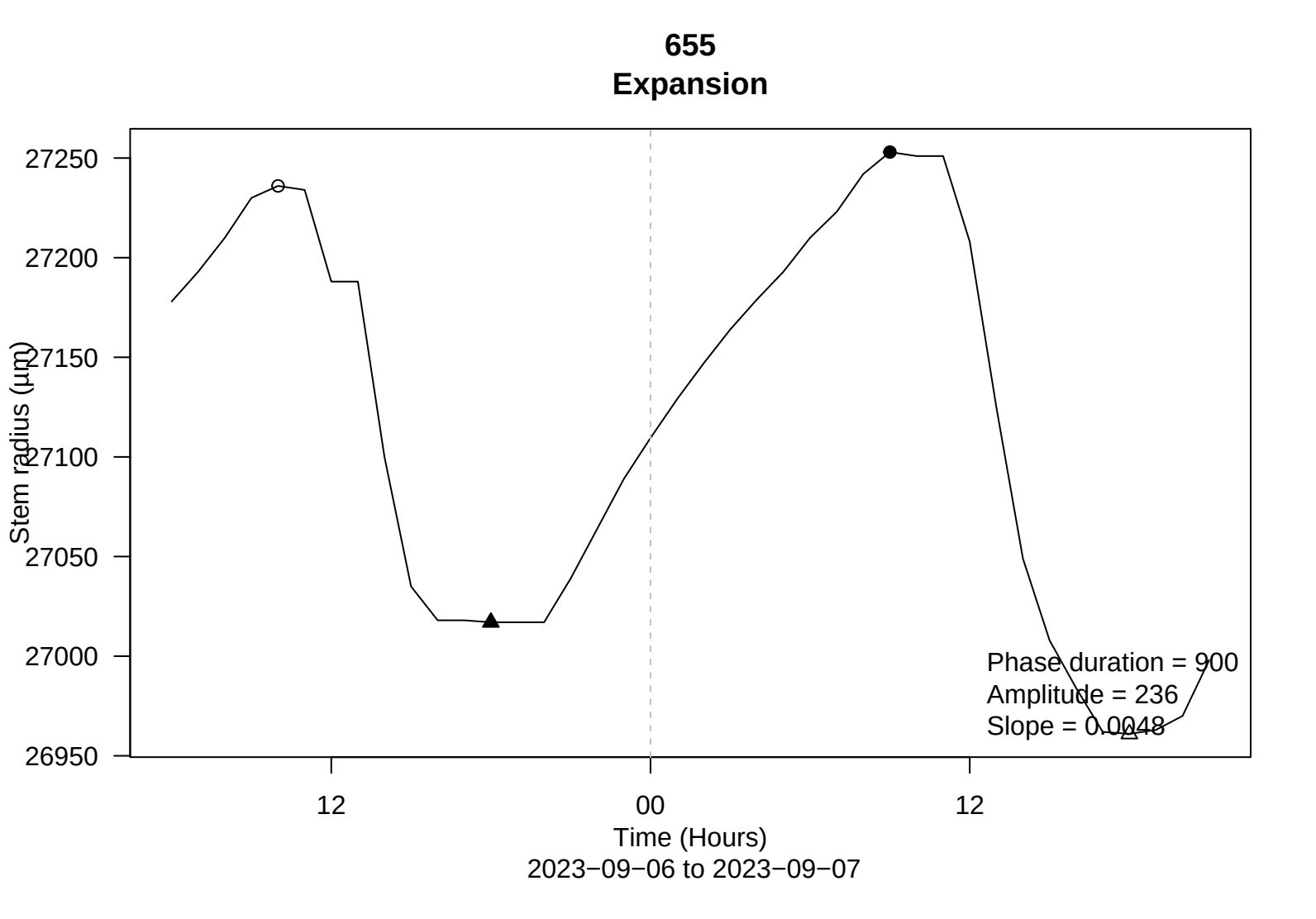

655
Shrinkage
27250
27200
27150
27100
27050
27000
Stem radius (µm)
Phase duration = 660
Amplitude = −268
Slope = −0.0085
00
12
00
Time (Hours)
2023−09−04 to 2023−09−04

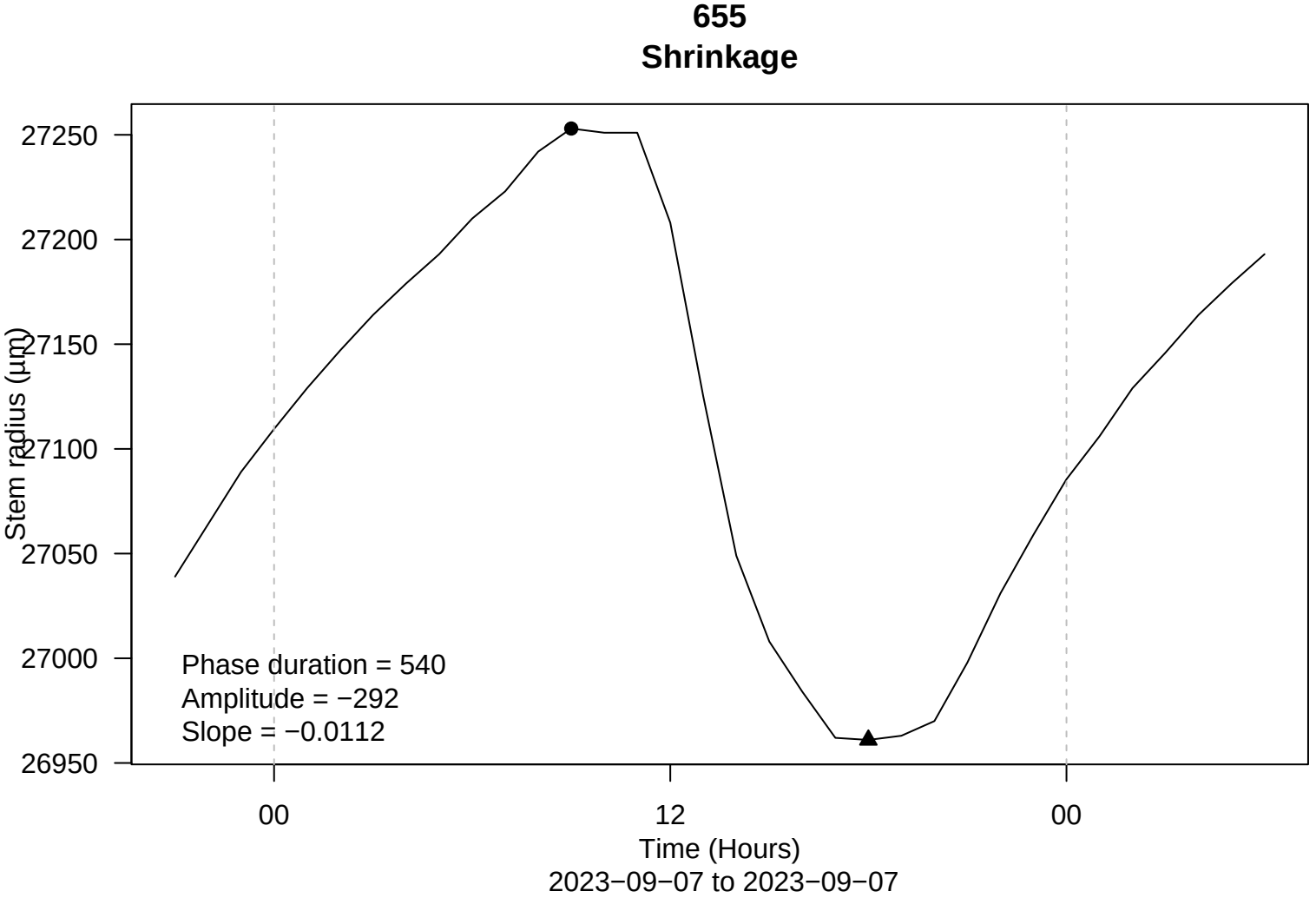

655
Expansion
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
Phase duration = 900
Amplitude = 285
Slope = 0.006
12
00
12
Time (Hours)
2023−09−04 to 2023−09−05

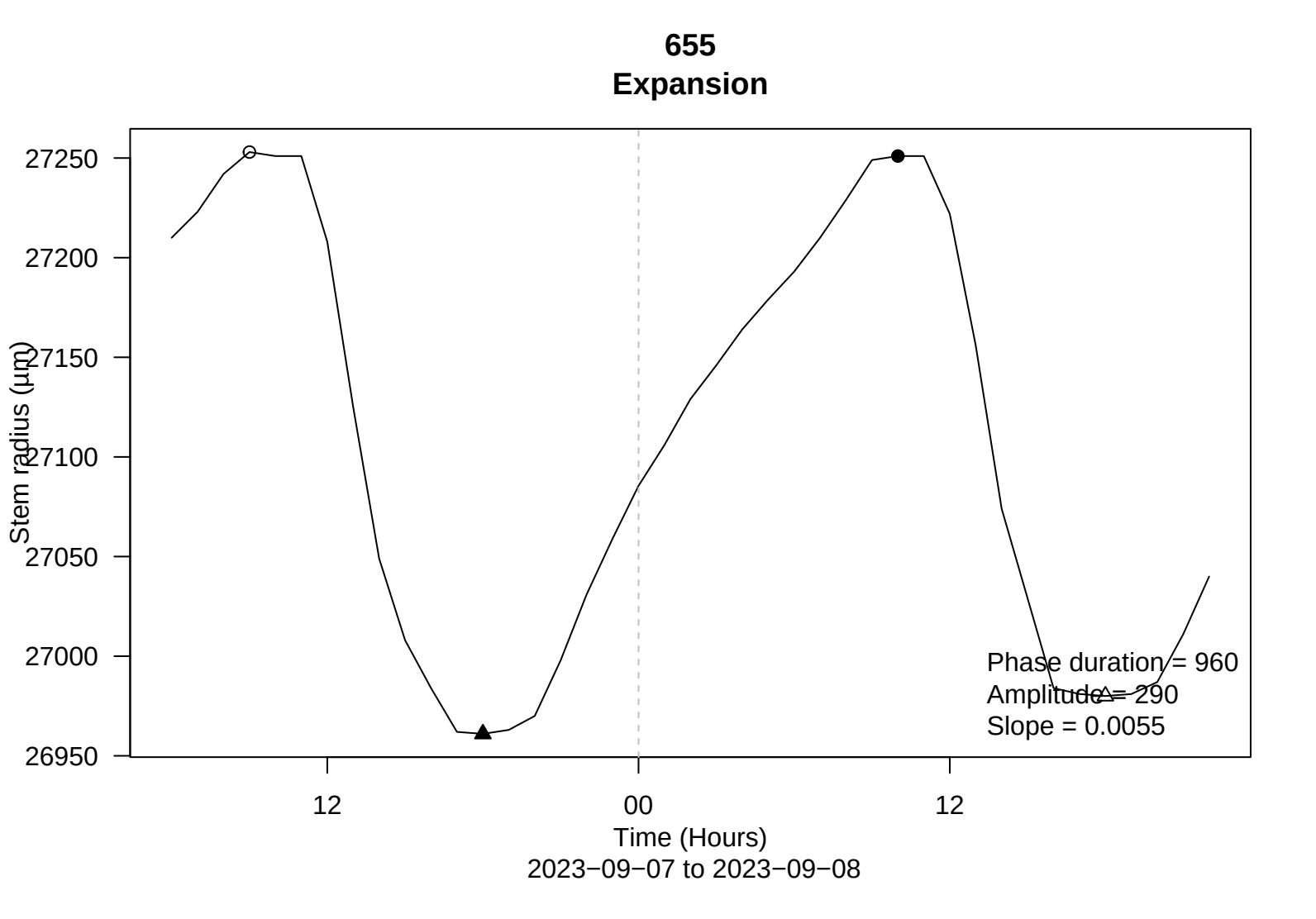

655
Shrinkage
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
Phase duration = 480
Amplitude = −321
Slope = −0.0136
00
12
00
Time (Hours)
2023−09−05 to 2023−09−05

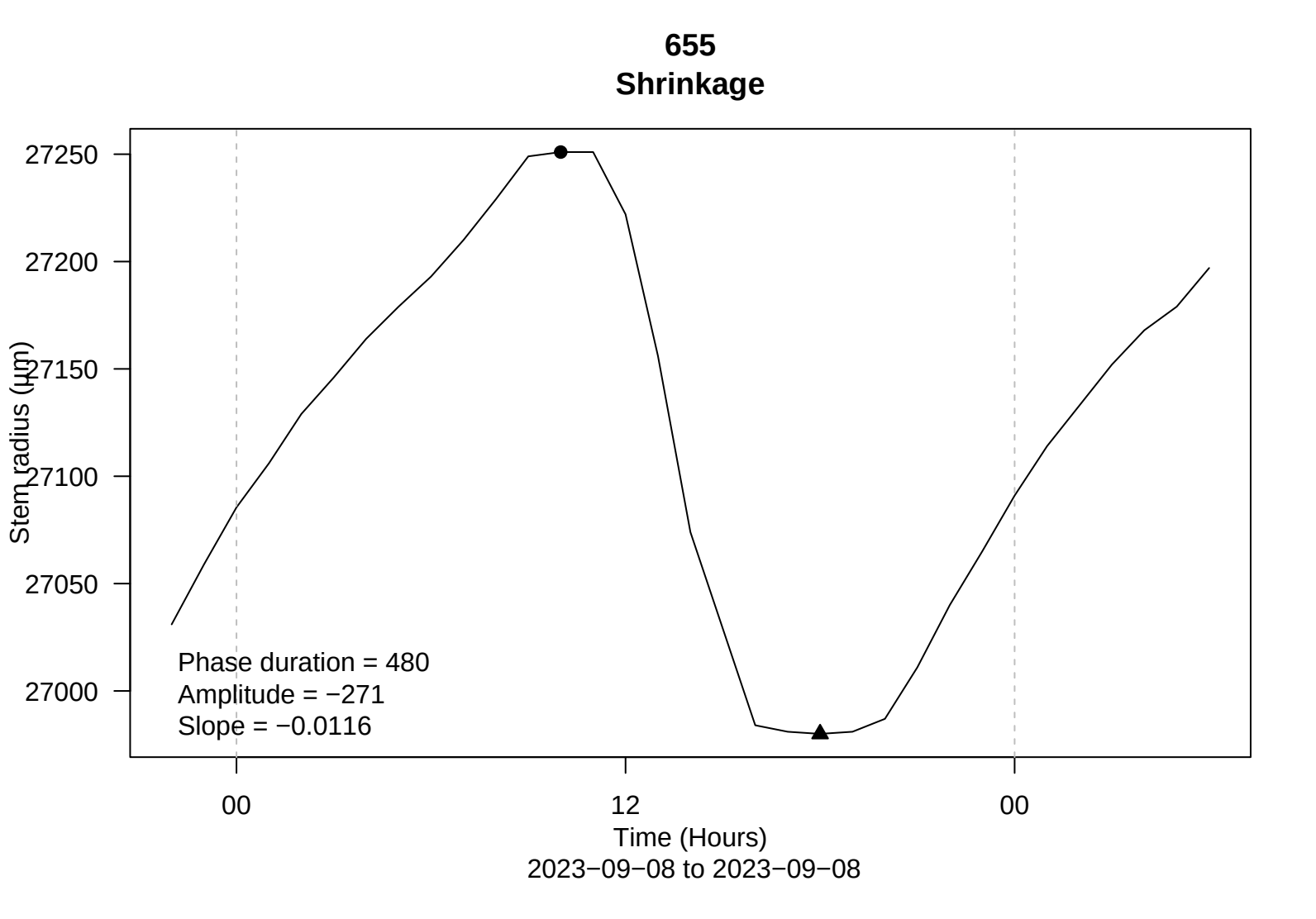

655
Expansion
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
Phase duration = 1020
Amplitude = 289
Slope = 0.005
12
00
12
Time (Hours)
2023−09−05 to 2023−09−06

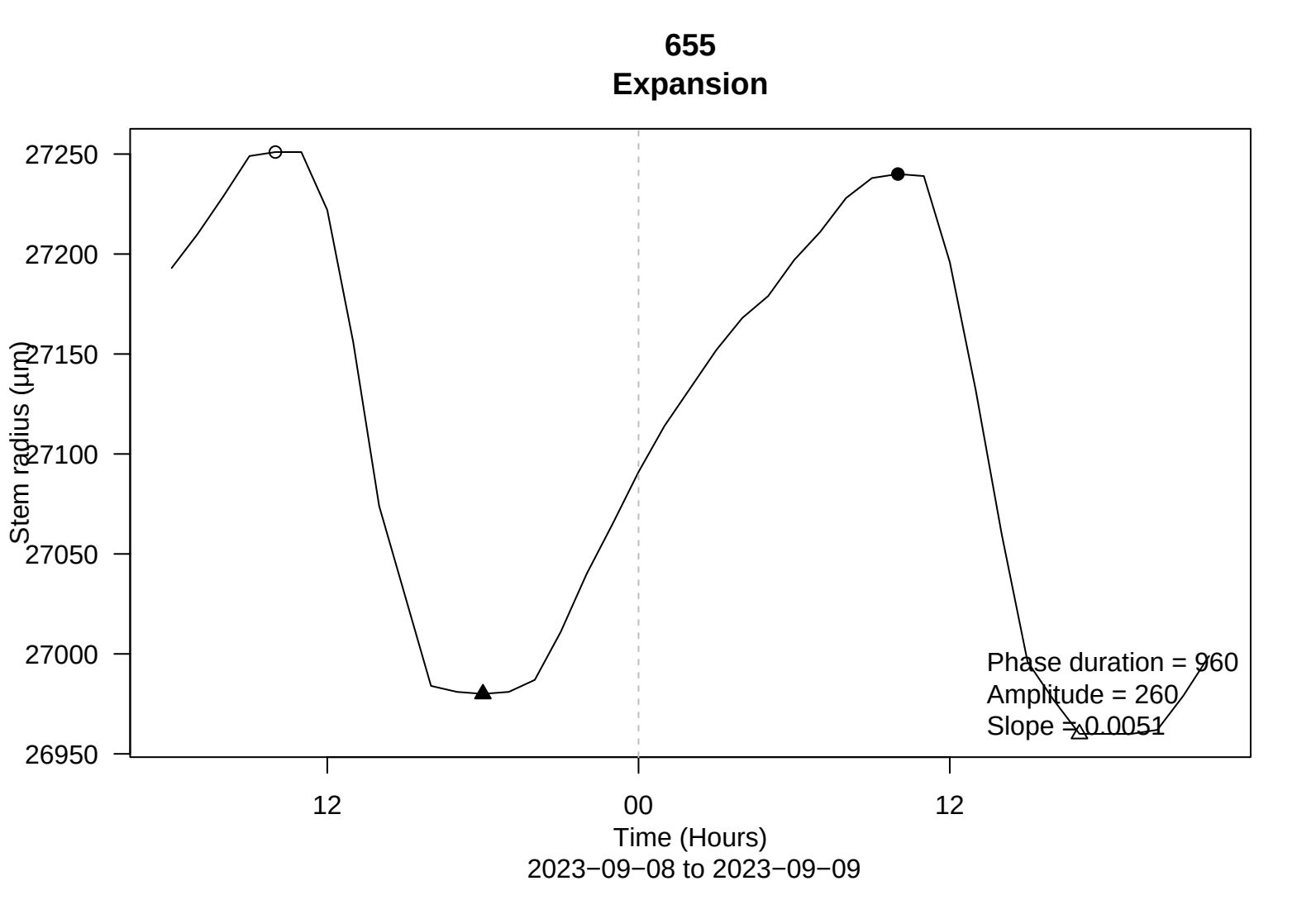

655
Shrinkage
27200
27150
27100
27050
Stem radius (µm)
Phase duration = 480
Amplitude = −219
Slope = −0.0093
00
12
00
Time (Hours)
2023−09−06 to 2023−09−06

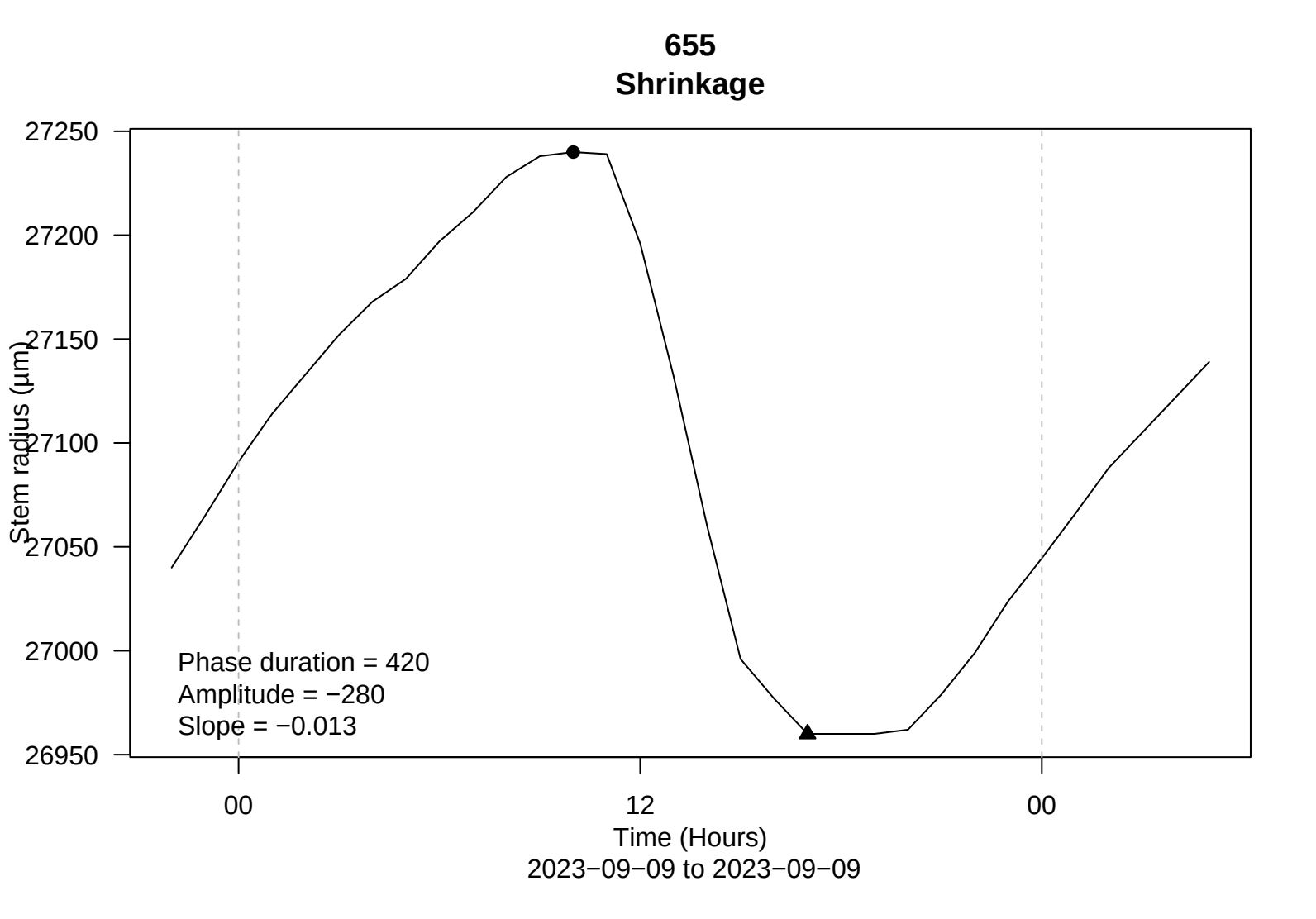

655
Expansion
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−06 to 2023−09−07
Phase duration = 900
Amplitude = 236
Slope = 0.0048

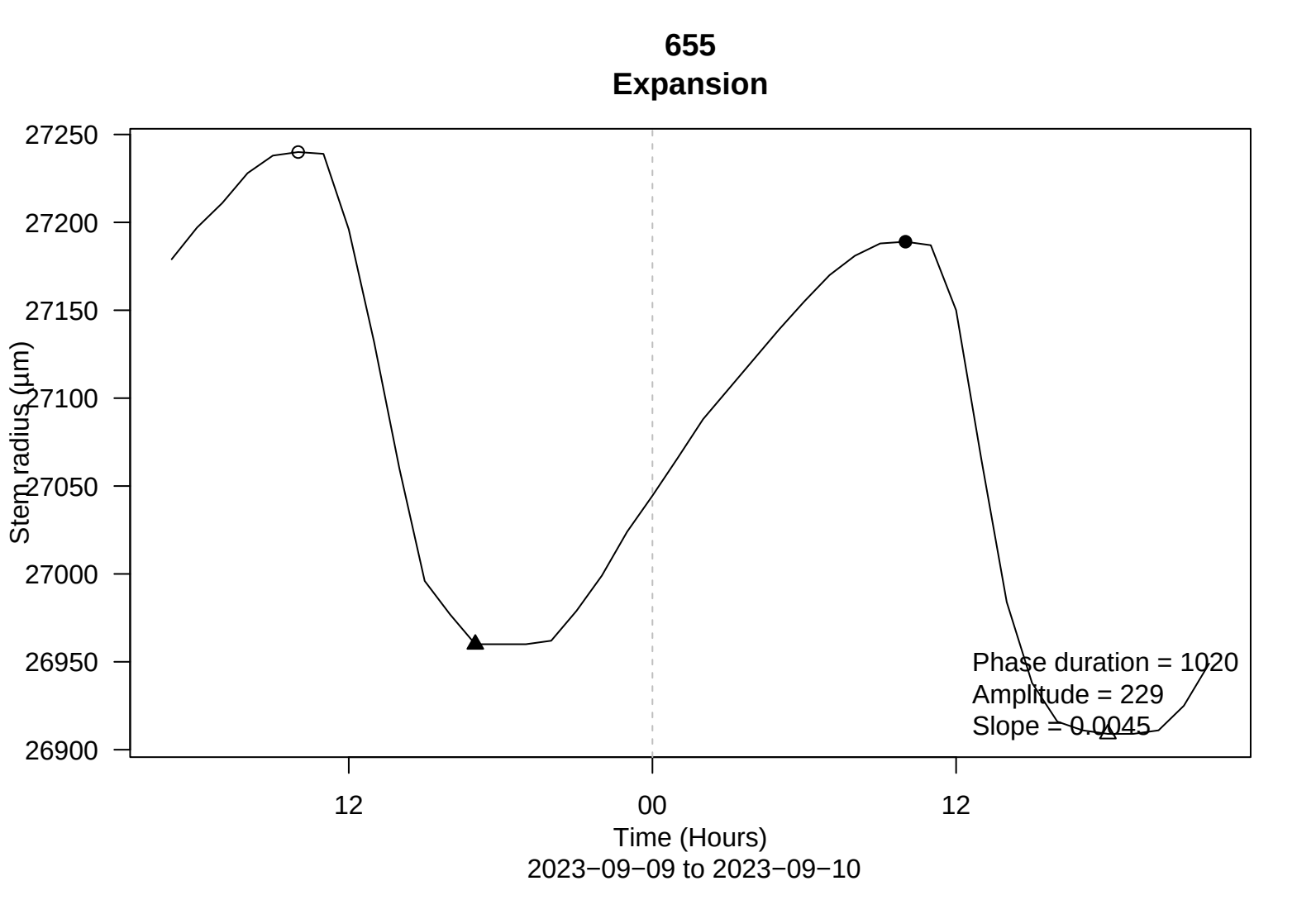

655
Shrinkage
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
Phase duration = 540
Amplitude = −292
Slope = −0.0112
00
12
00
Time (Hours)
2023−09−07 to 2023−09−07

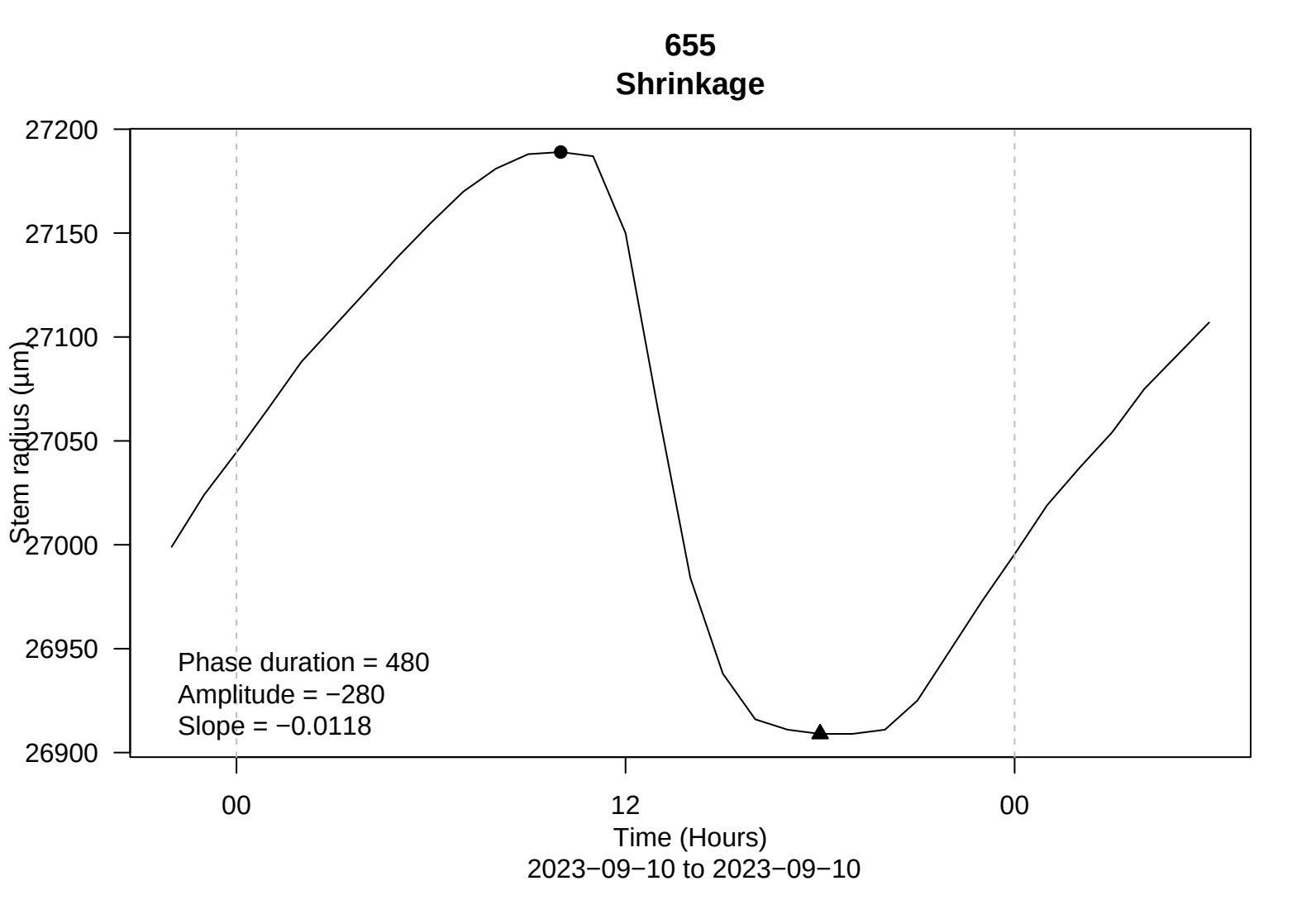

655
Expansion
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−07 to 2023−09−08
Phase duration = 960
Amplitude = 290
Slope = 0.0055

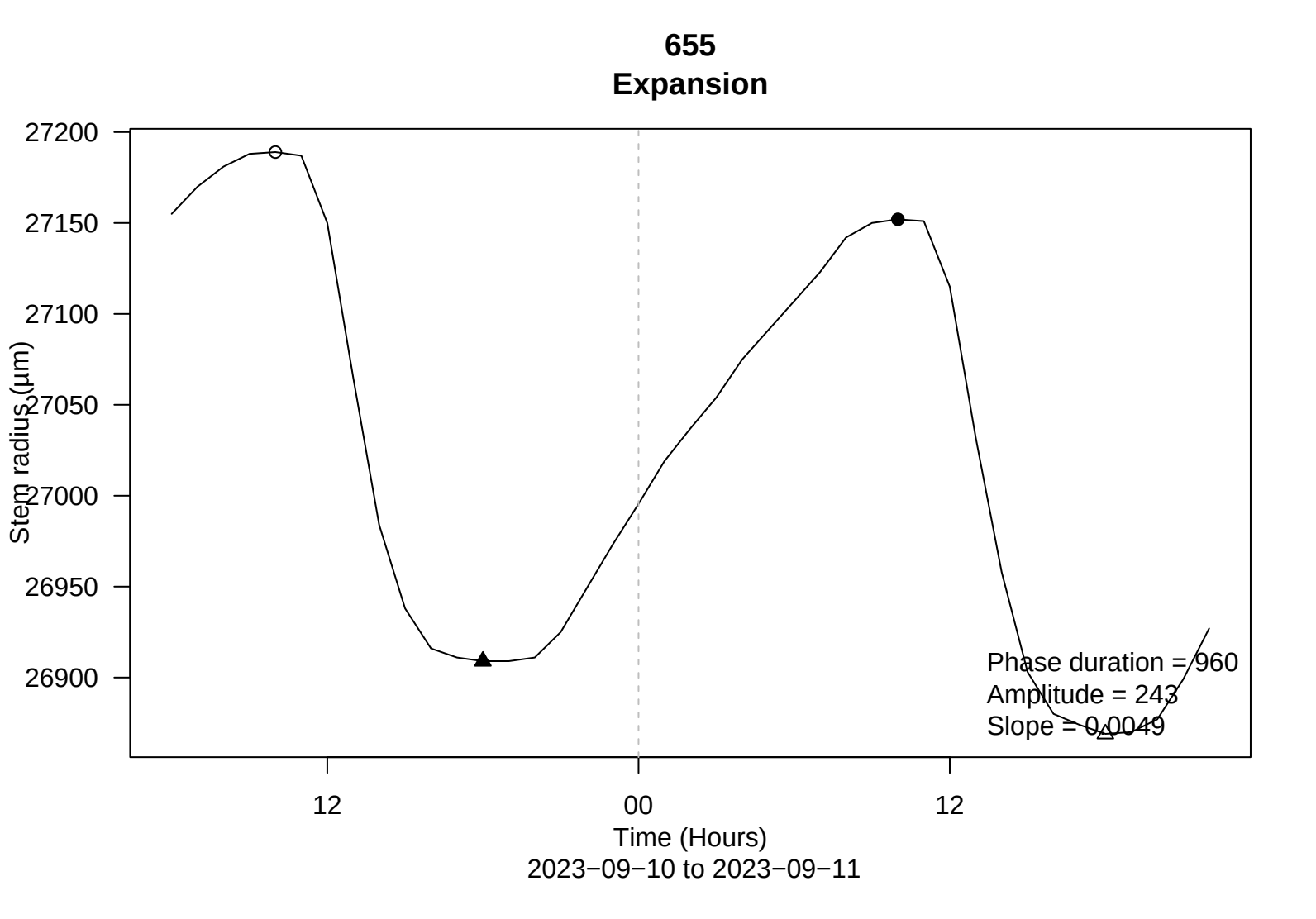

655
Shrinkage
27250
27200
27150
27100
27050
27000
Stem radius (µm)
Phase duration = 480
Amplitude = −271
Slope = −0.0116
00
12
00
Time (Hours)
2023−09−08 to 2023−09−08

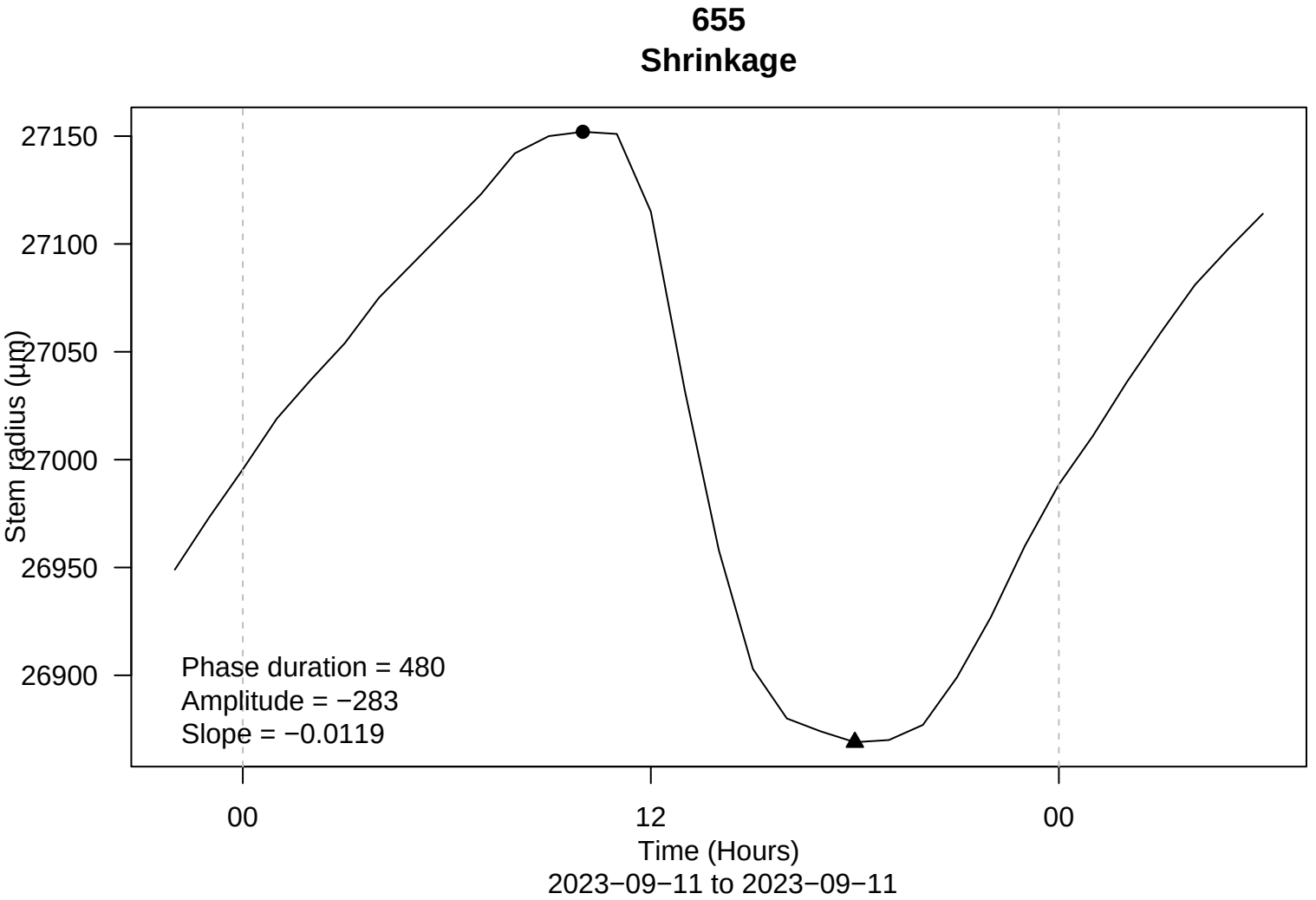

655
Expansion
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−08 to 2023−09−09
Phase duration = 960
Amplitude = 260
Slope = 0.0051

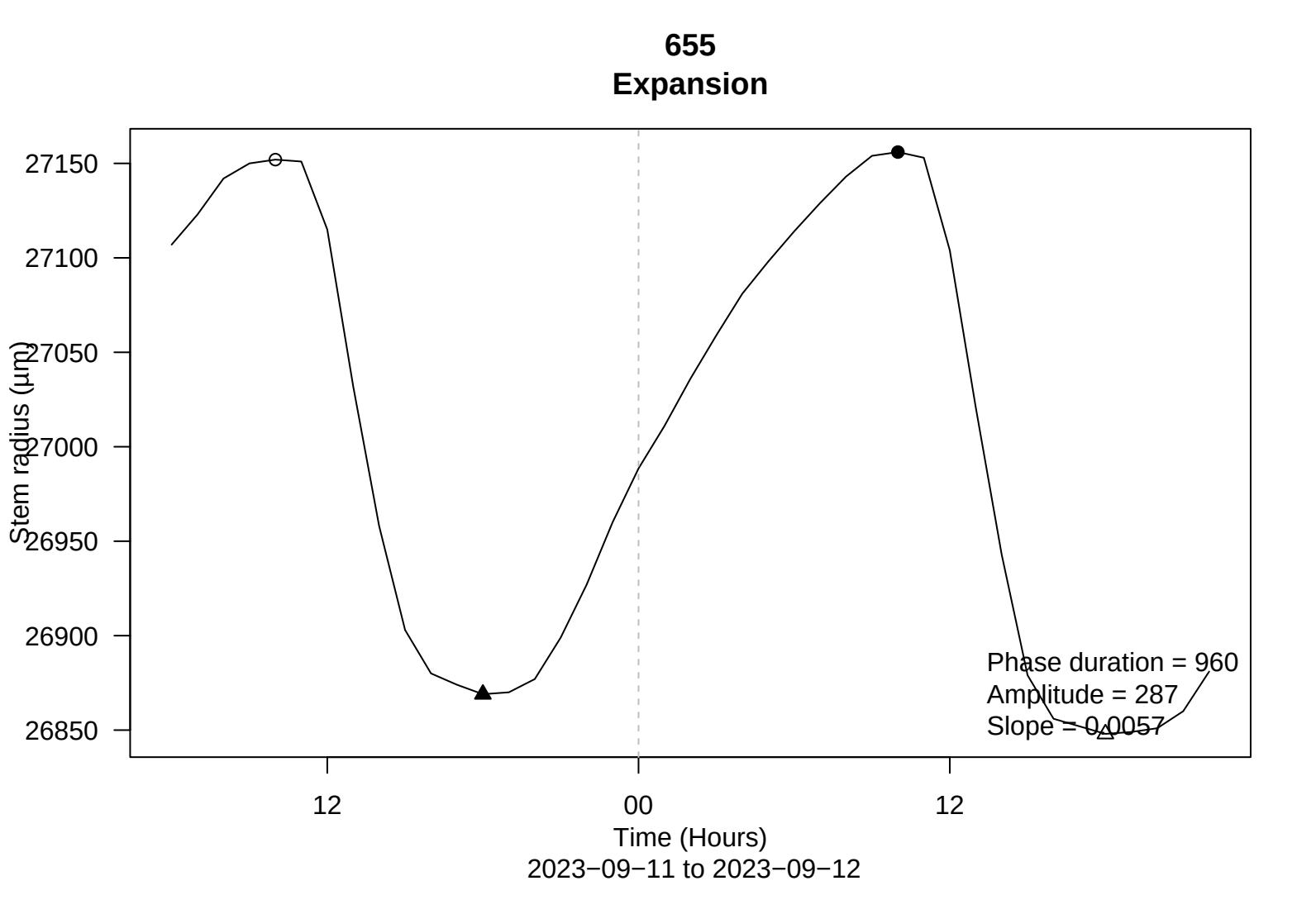

655
Shrinkage
27250
27200
27150
27100
27050
27000
26950
Stem radius (µm)
Phase duration = 420
Amplitude = −280
Slope = −0.013
00
12
00
Time (Hours)
2023−09−09 to 2023−09−09

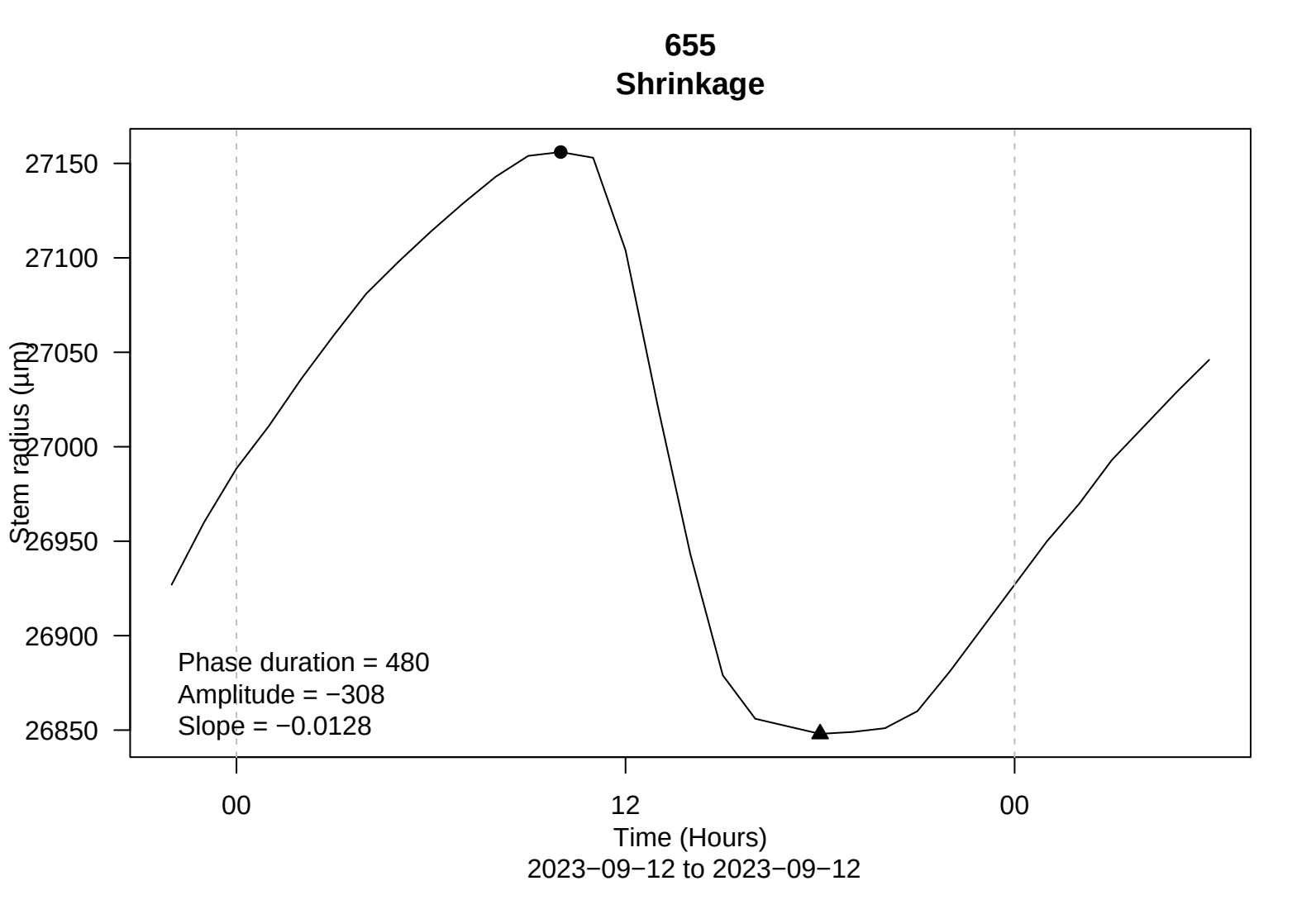

655
Expansion
27250
27200
27150
27100
27050
27000
26950
26900
Stem radius (µm)
Phase duration = 1020
Amplitude = 229
Slope = 0.0045
12
00
12
Time (Hours)
2023−09−09 to 2023−09−10

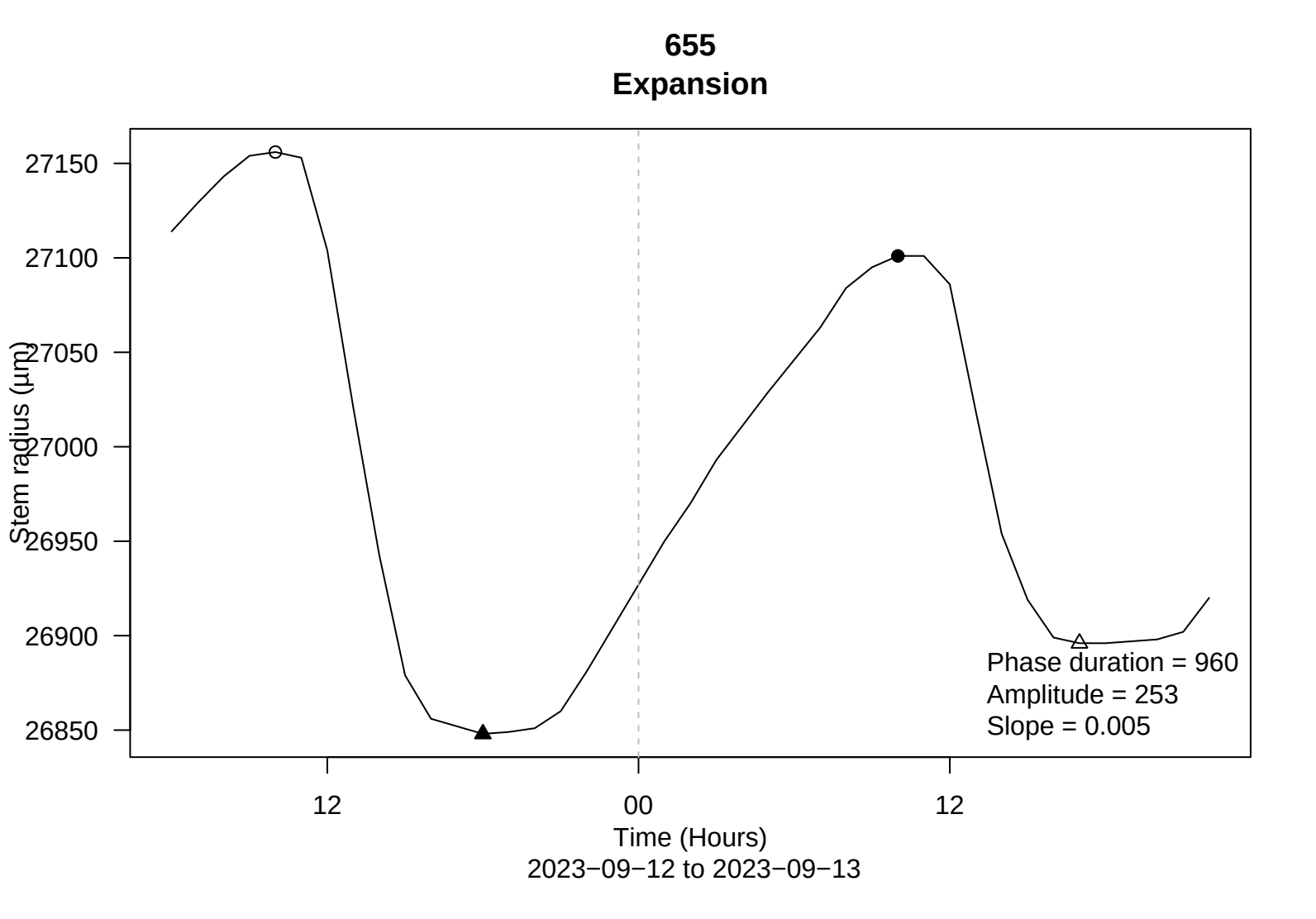

655
Shrinkage
27200
27150
27100
27050
27000
26950
26900
Stem radius (µm)
Phase duration = 480
Amplitude = −280
Slope = −0.0118
00
12
00
Time (Hours)
2023−09−10 to 2023−09−10

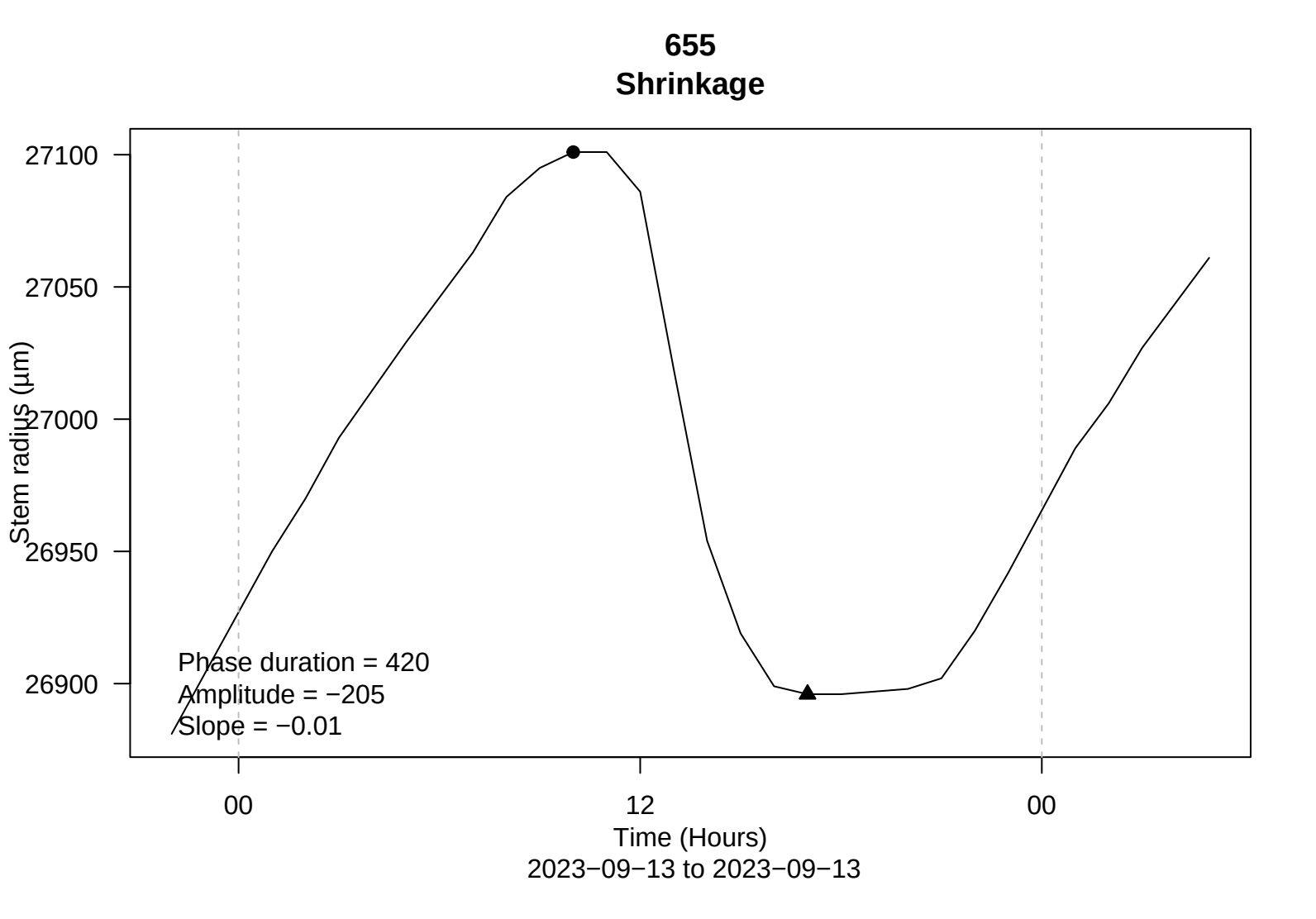

655
Expansion
27200
27150
27100
27050
27000
26950
26900
Stem radius (µm)
Phase duration = 960
Amplitude = 243
Slope = 0.0049
12
00
12
Time (Hours)
2023−09−10 to 2023−09−11

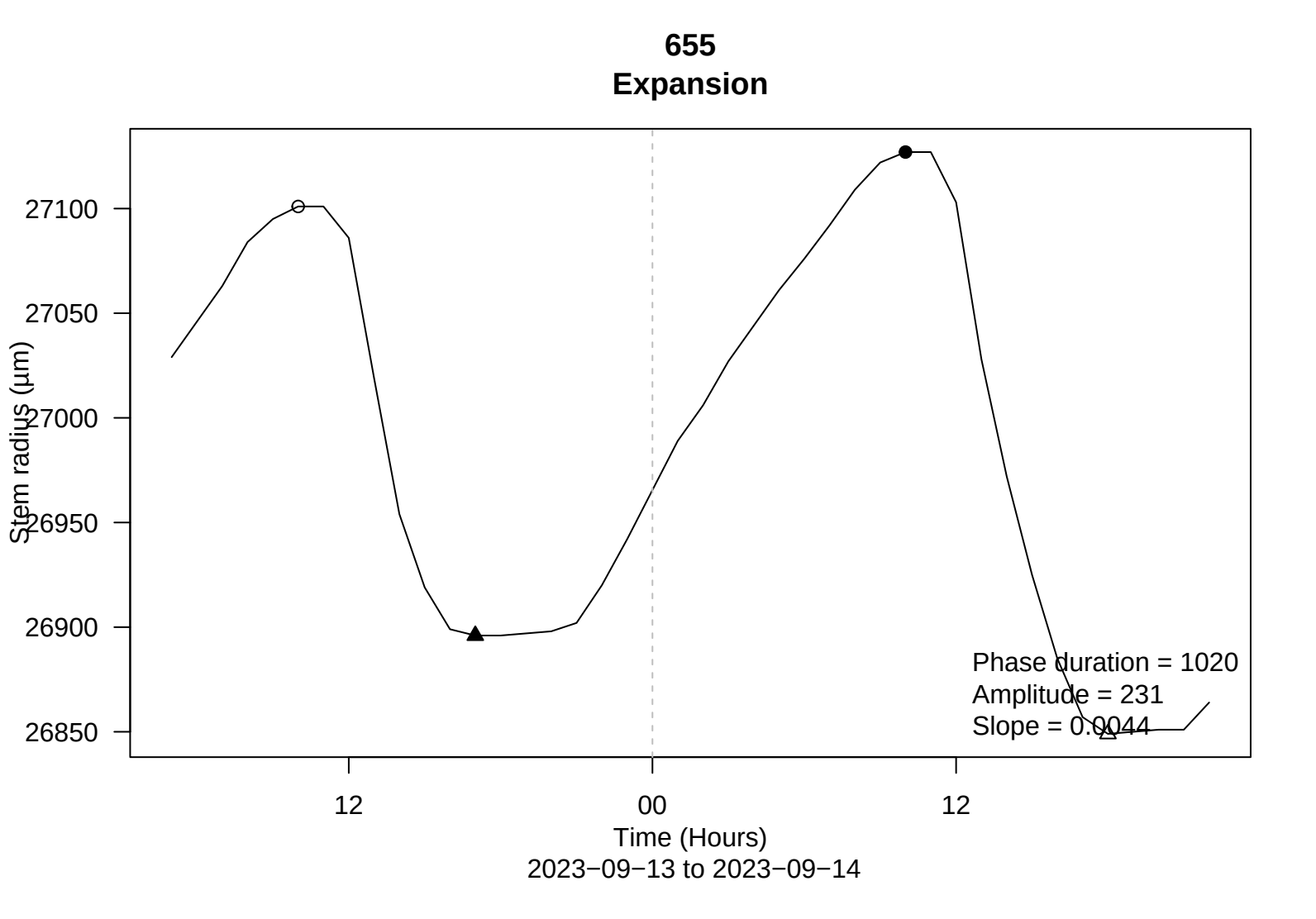

655
Shrinkage
27150
27100
27050
27000
26950
26900
Stem radius (µm)
Phase duration = 480
Amplitude = −283
Slope = −0.0119
00
12
00
Time (Hours)
2023−09−11 to 2023−09−11

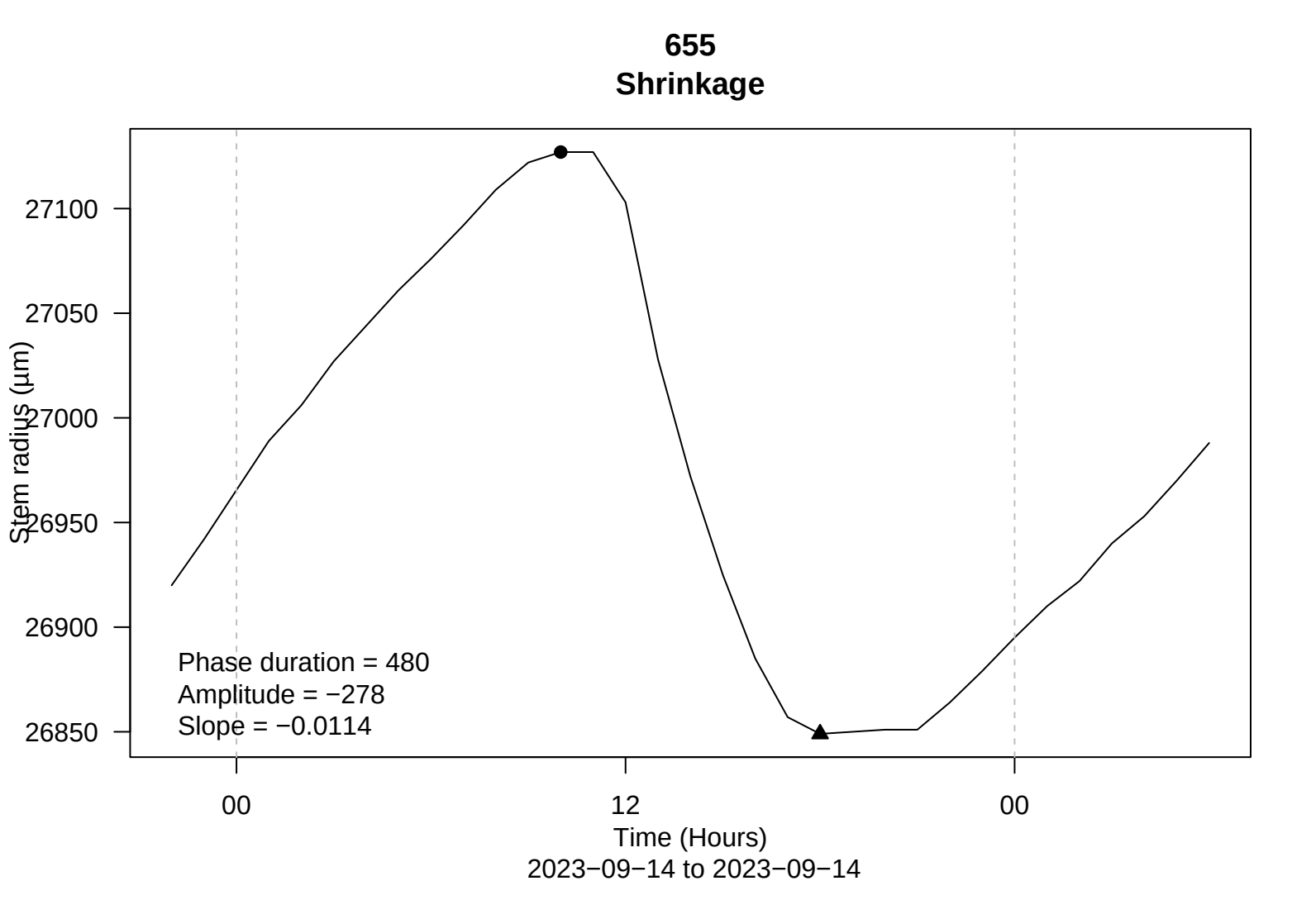

655
Expansion
27150
27100
27050
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 960
Amplitude = 287
Slope = 0.0057
12
00
12
Time (Hours)
2023−09−11 to 2023−09−12

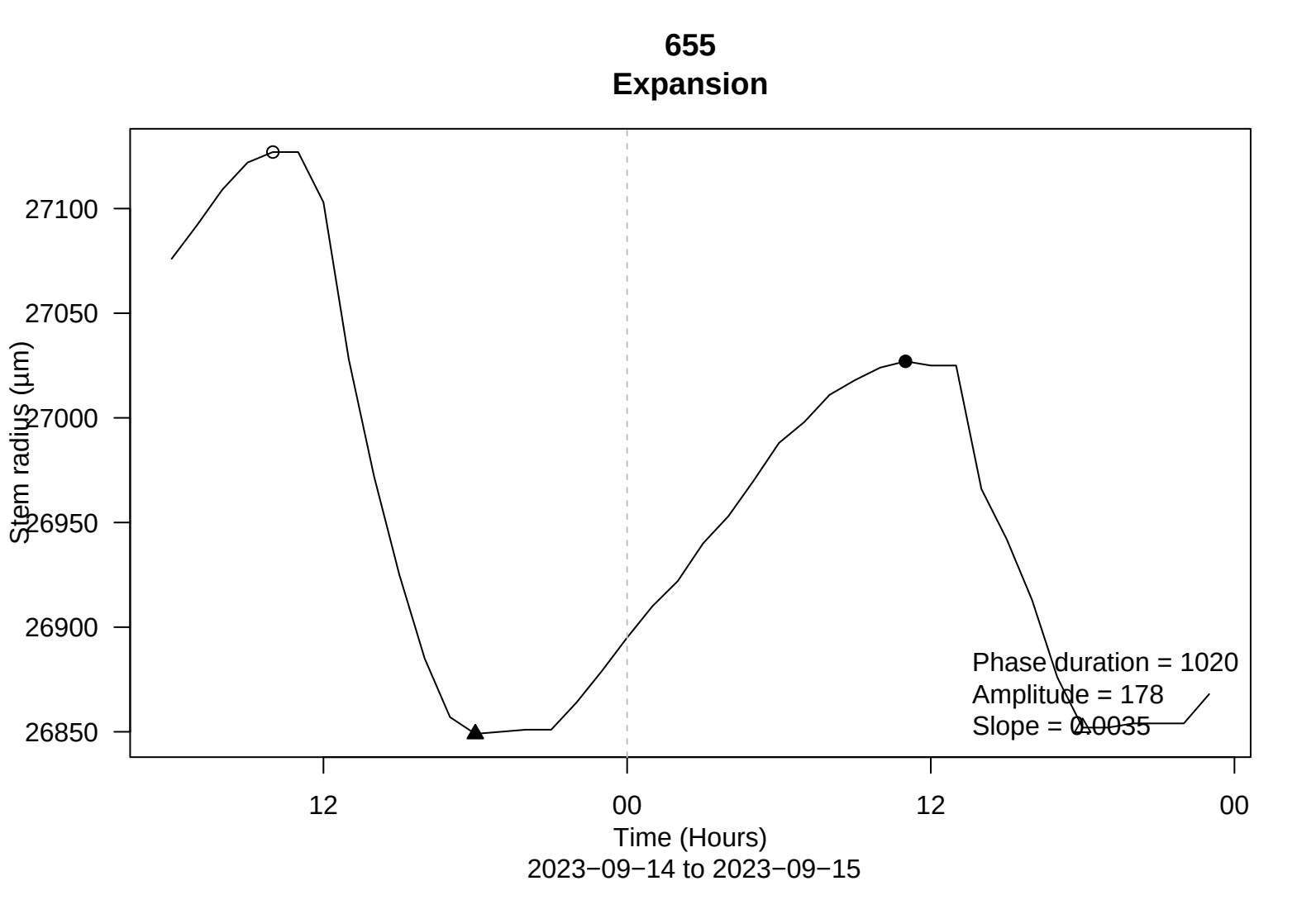

655
Shrinkage
27150
27100
27050
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 480
Amplitude = −308
Slope = −0.0128
00
12
00
Time (Hours)
2023−09−12 to 2023−09−12

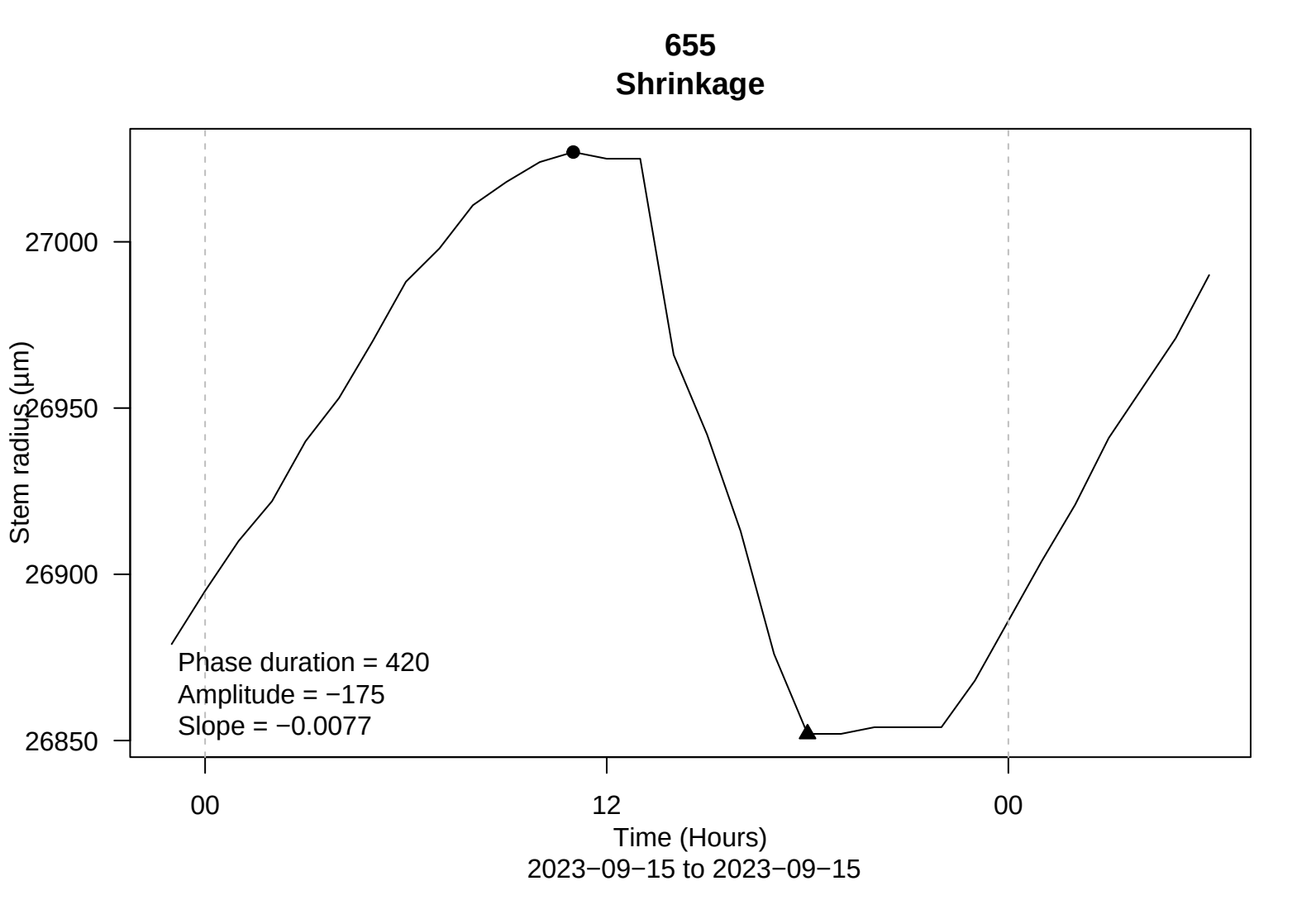

655
Expansion
27150
27100
27050
27000
26950
26900
26850
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−12 to 2023−09−13
Phase duration = 960
Amplitude = 253
Slope = 0.005

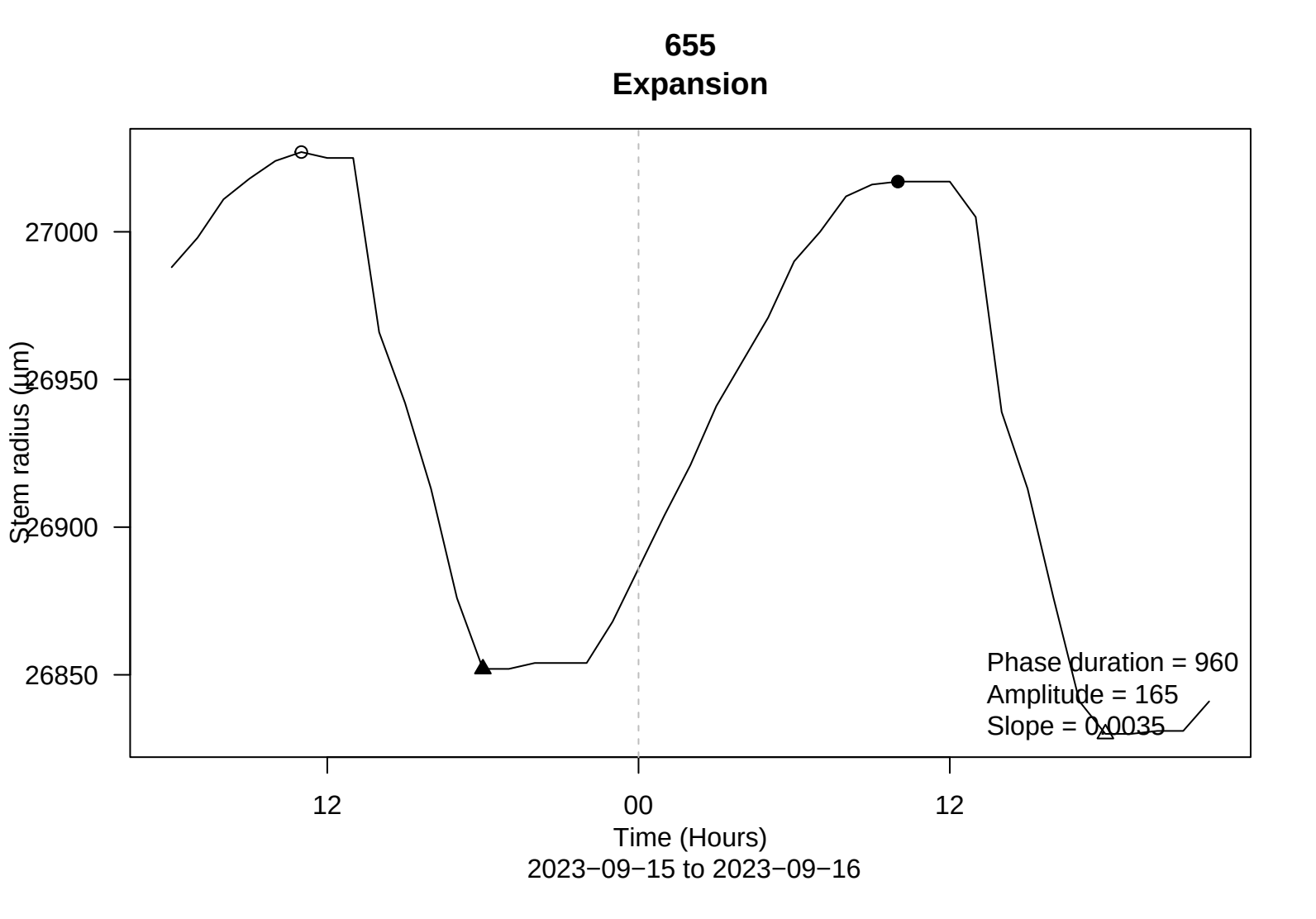

655
Shrinkage
27100
27050
27000
26950
26900
Stem radius (µm)
Phase duration = 420
Amplitude = −205
Slope = −0.01
00
12
00
Time (Hours)
2023−09−13 to 2023−09−13

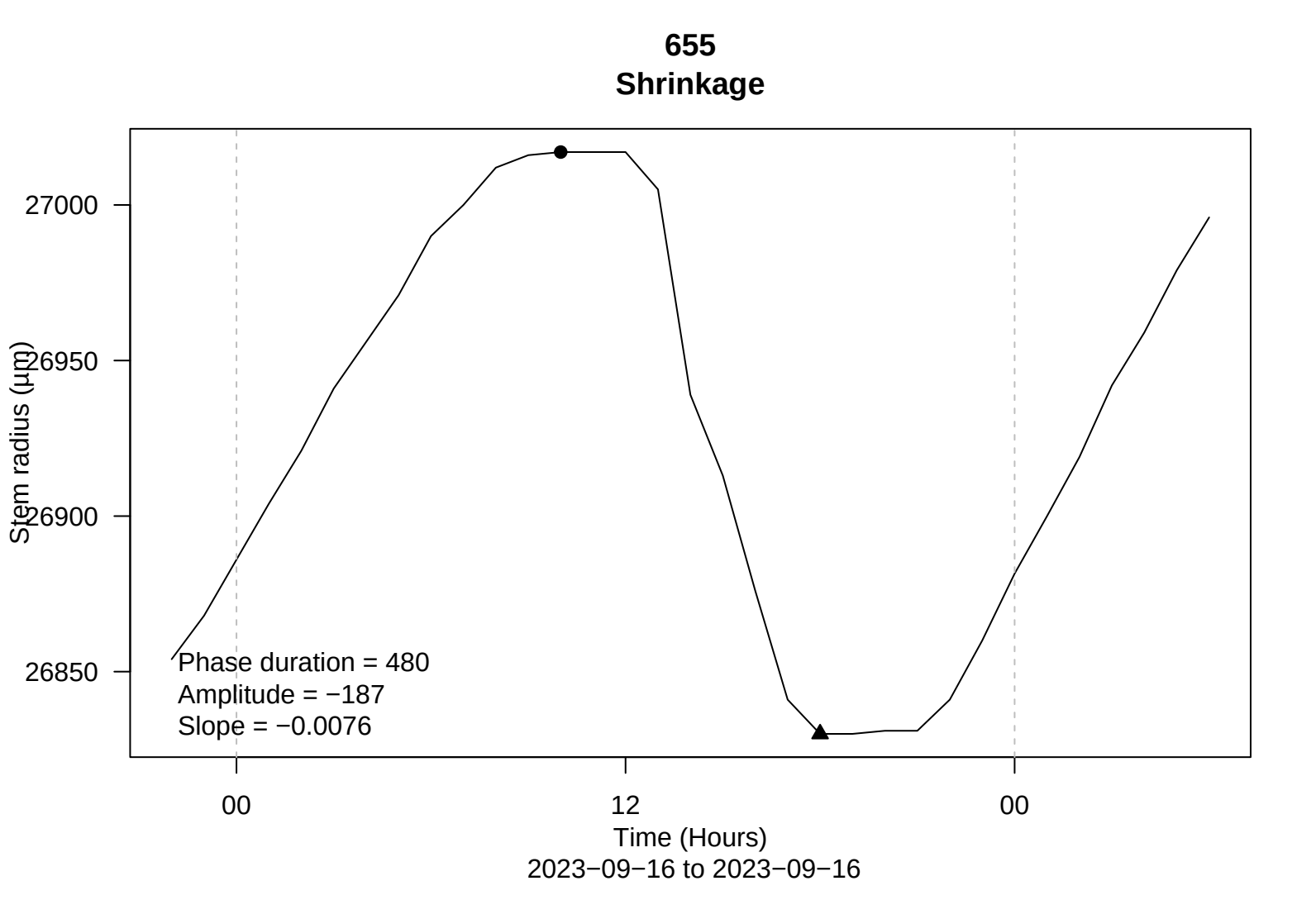

655
Expansion
27100
27050
27000
26950
26900
26850
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−13 to 2023−09−14
Phase duration = 1020
Amplitude = 231
Slope = 0.0044

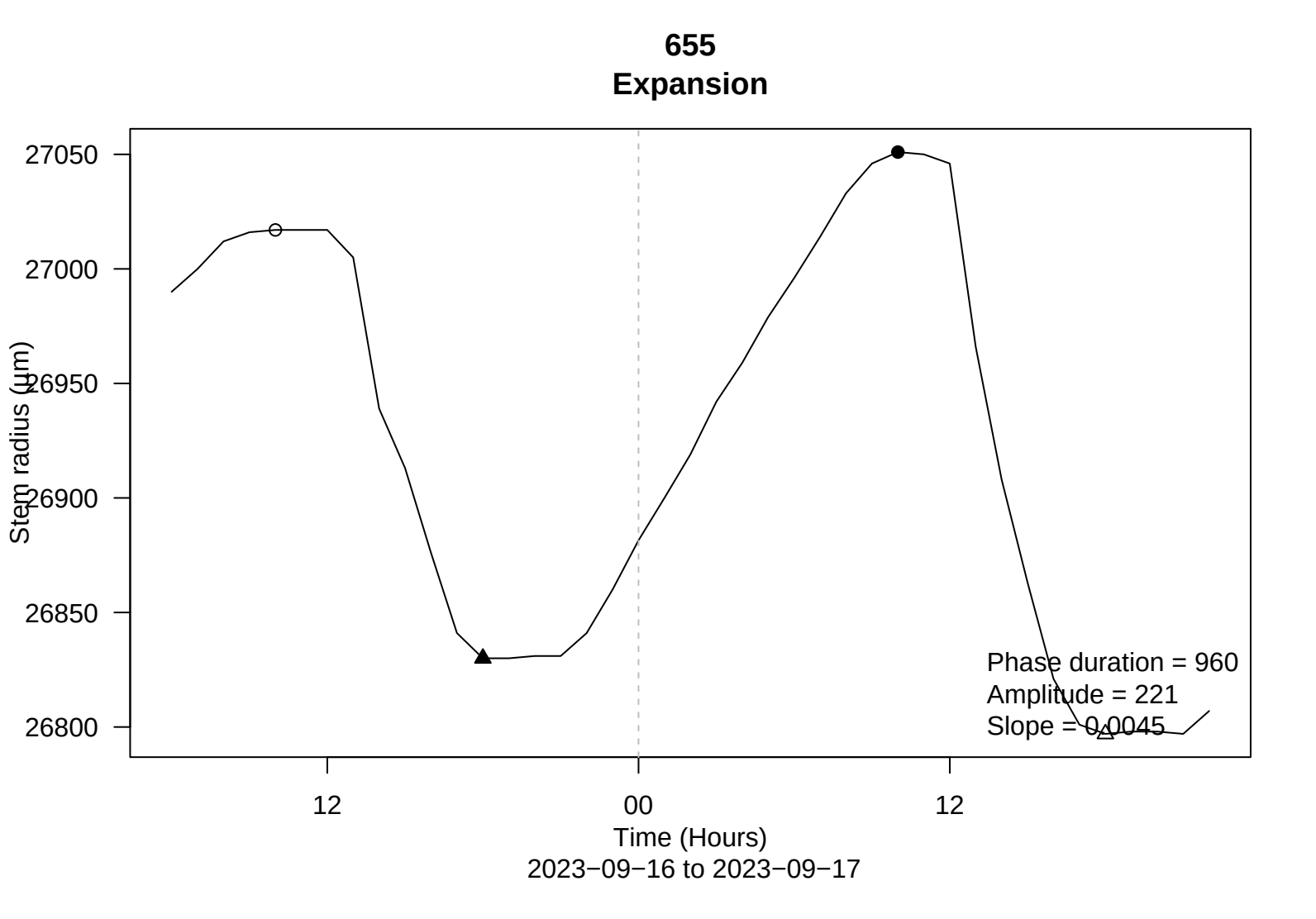

655
Shrinkage
27100
27050
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 480
Amplitude = −278
Slope = −0.0114
00
12
00
Time (Hours)
2023−09−14 to 2023−09−14

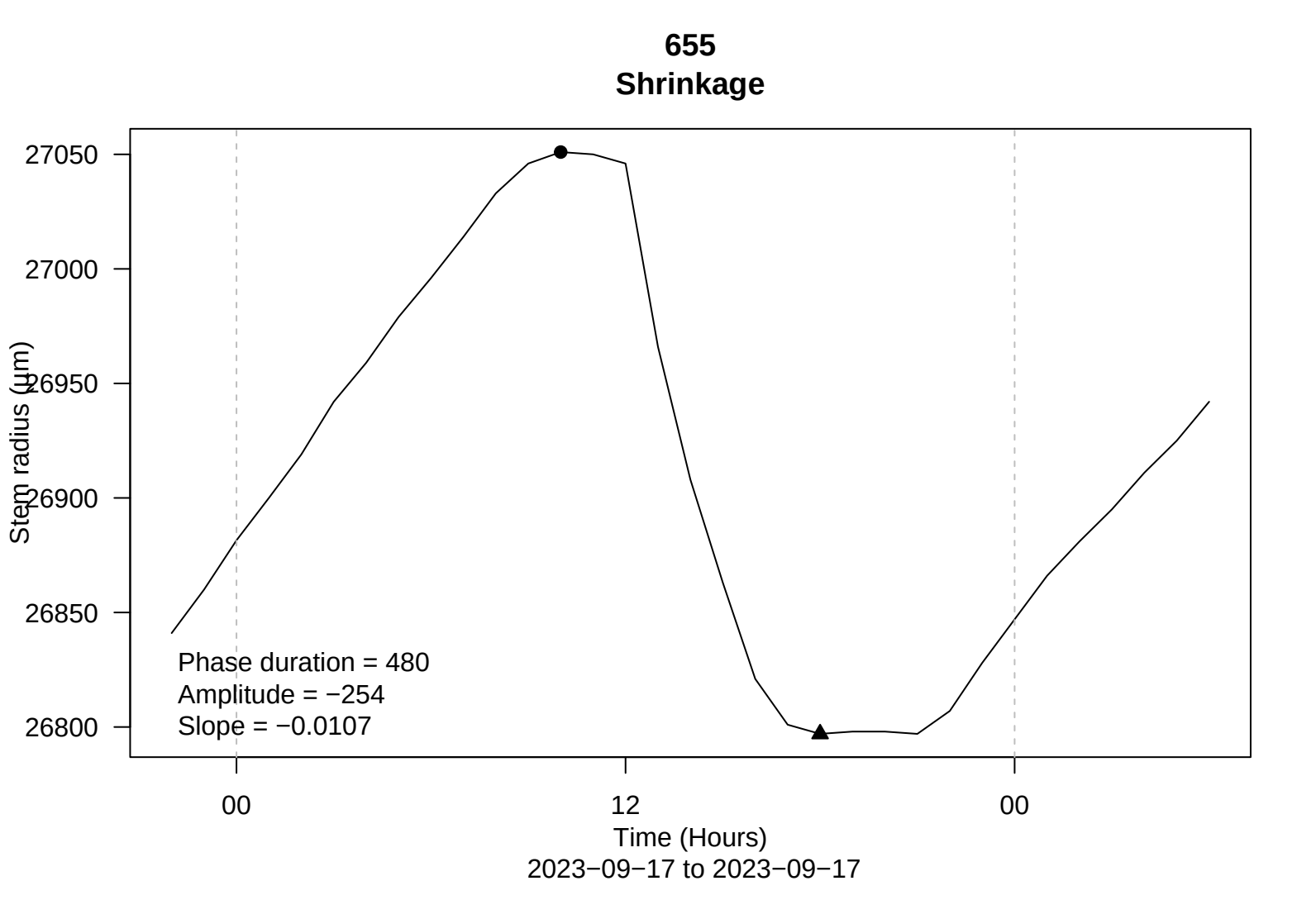

655
Expansion
27100
27050
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 1020
Amplitude = 178
Slope = 0.0035
12
00
12
00
Time (Hours)
2023−09−14 to 2023−09−15

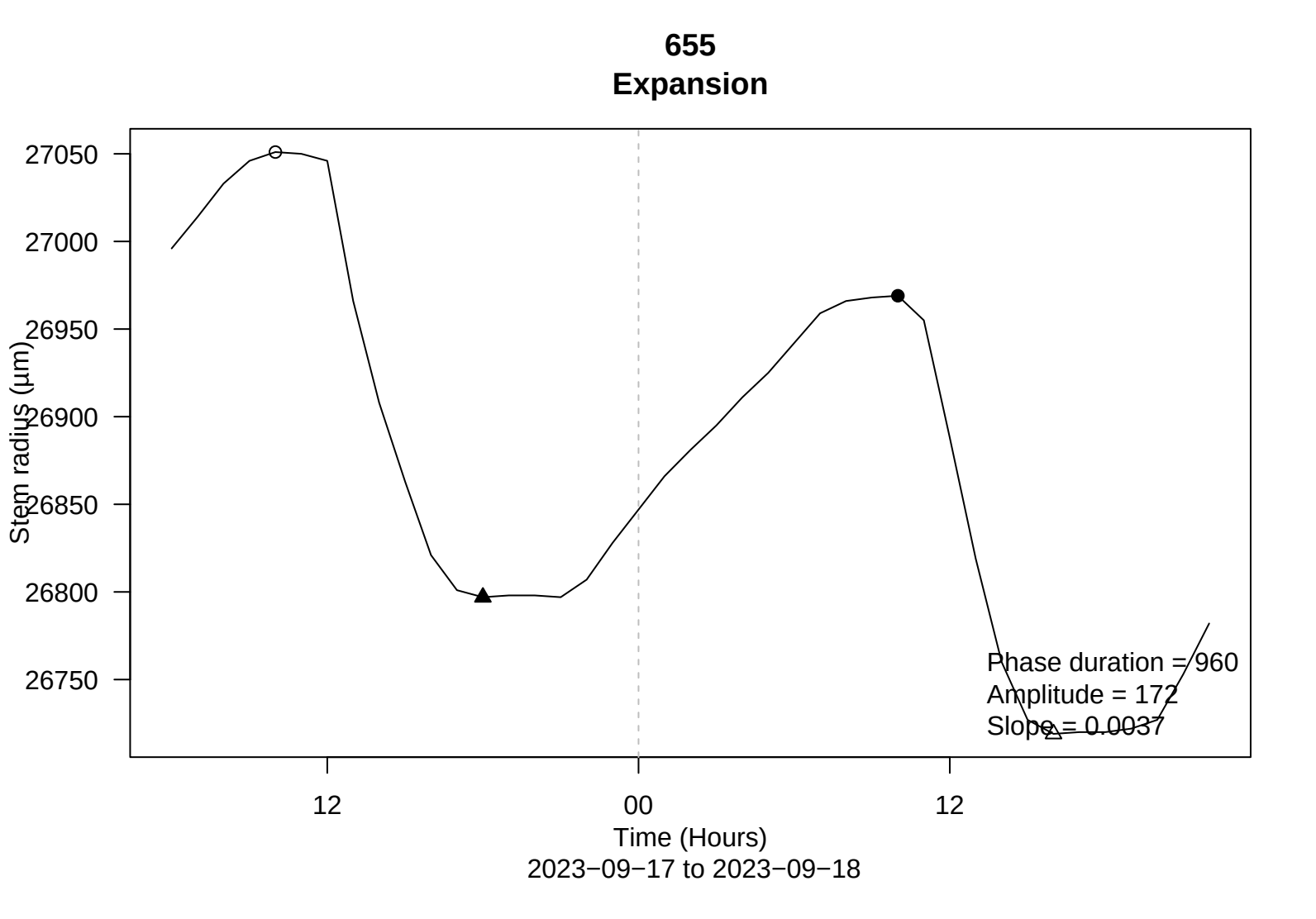

655
Shrinkage
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 420
Amplitude = −175
Slope = −0.0077
00
12
00
Time (Hours)
2023−09−15 to 2023−09−15

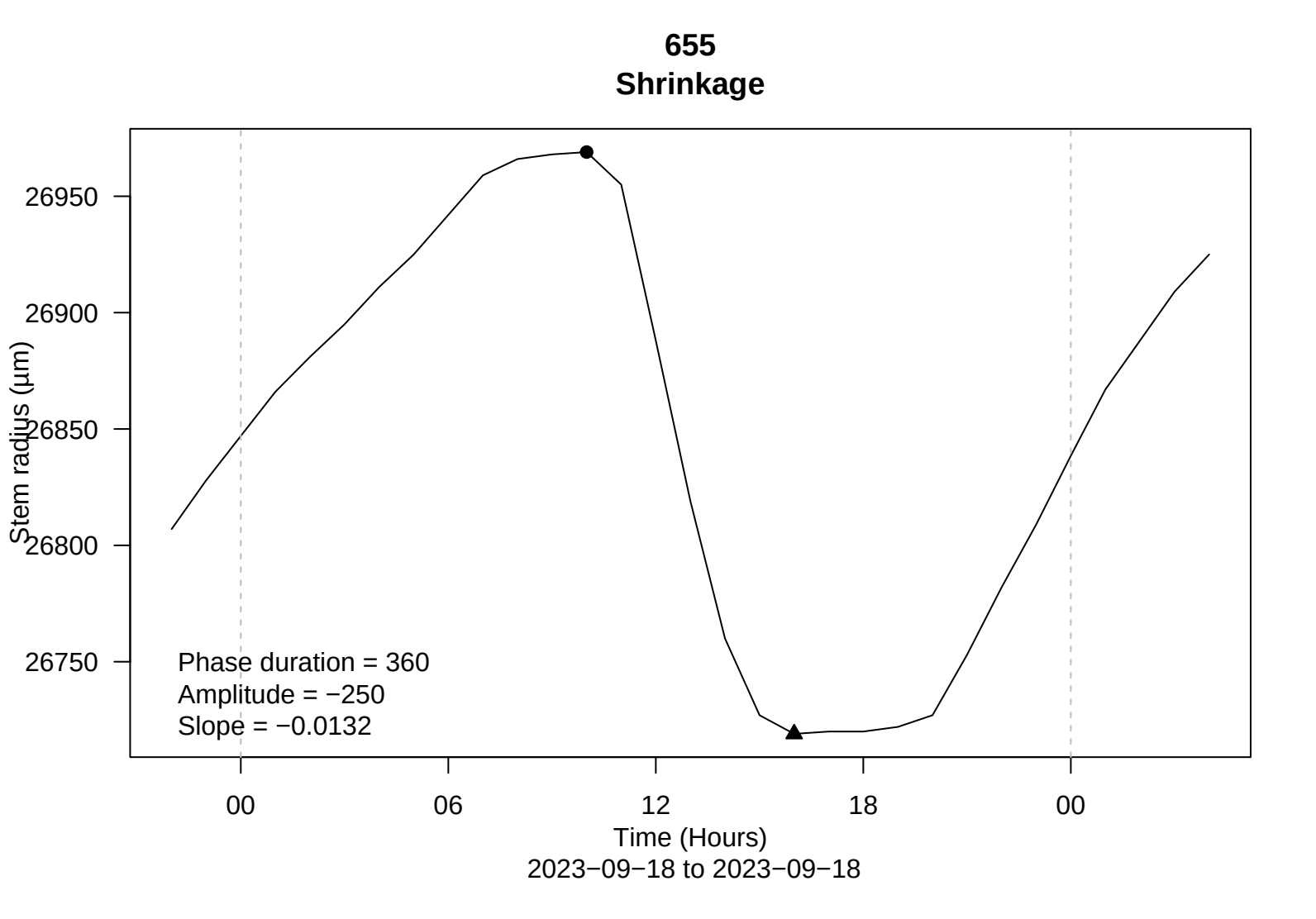

655
Expansion
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 960
Amplitude = 165
Slope = 0.0035
12
00
12
Time (Hours)
2023−09−15 to 2023−09−16

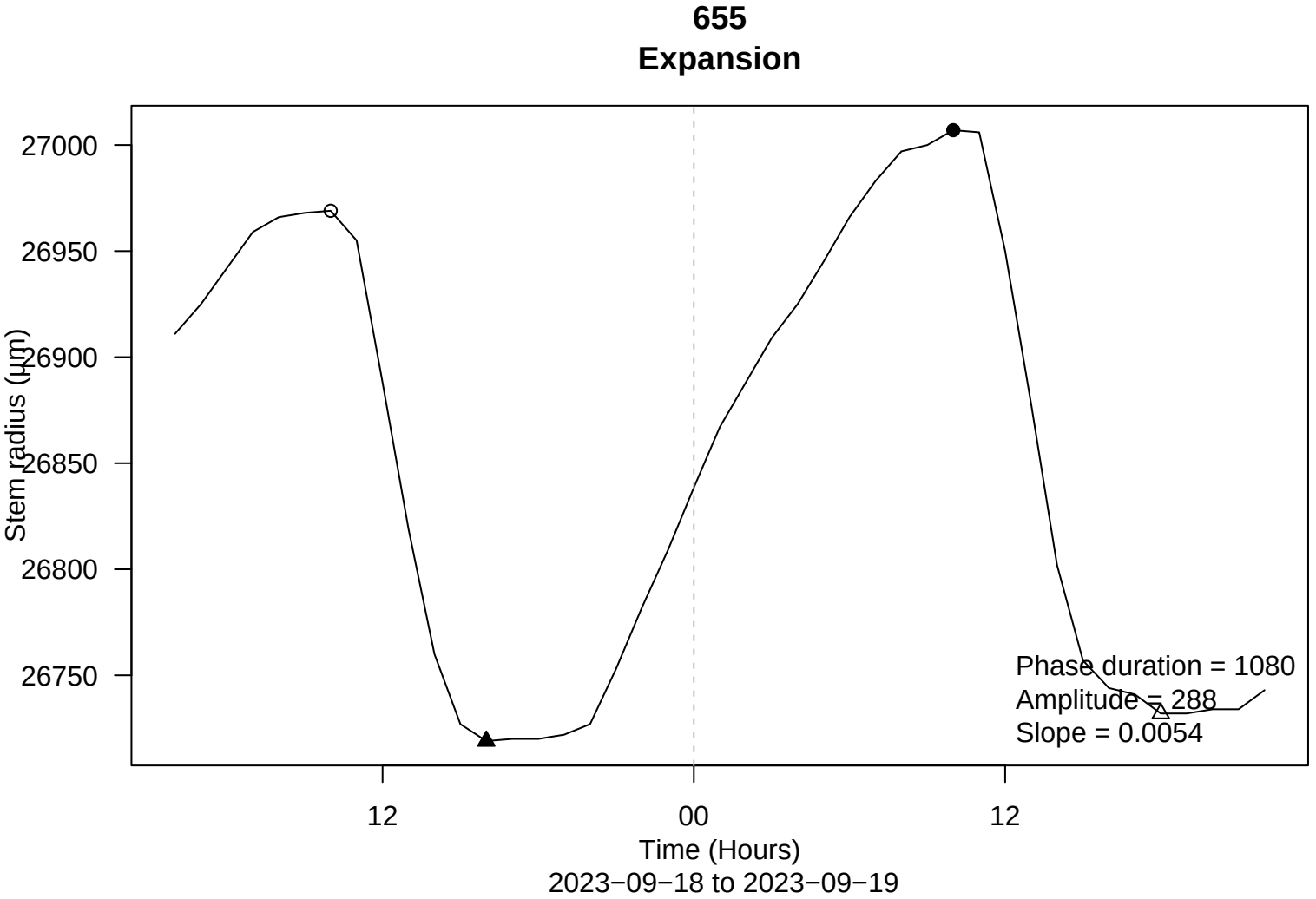

655
Shrinkage
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 480
Amplitude = −187
Slope = −0.0076
00
12
00
Time (Hours)
2023−09−16 to 2023−09−16

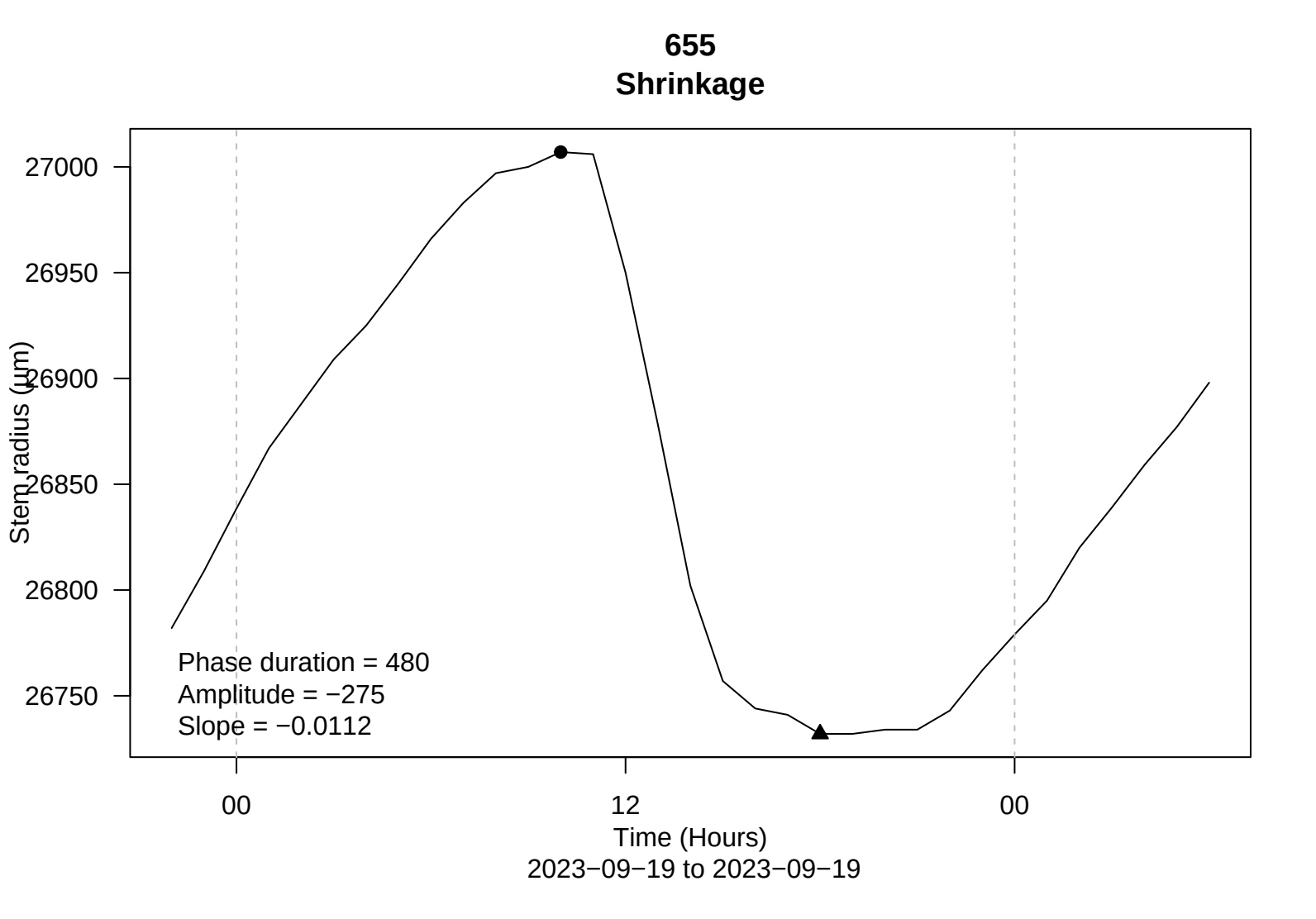

655
Expansion
27050
27000
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 960
Amplitude = 221
Slope = 0.0045
12
00
12
Time (Hours)
2023−09−16 to 2023−09−17

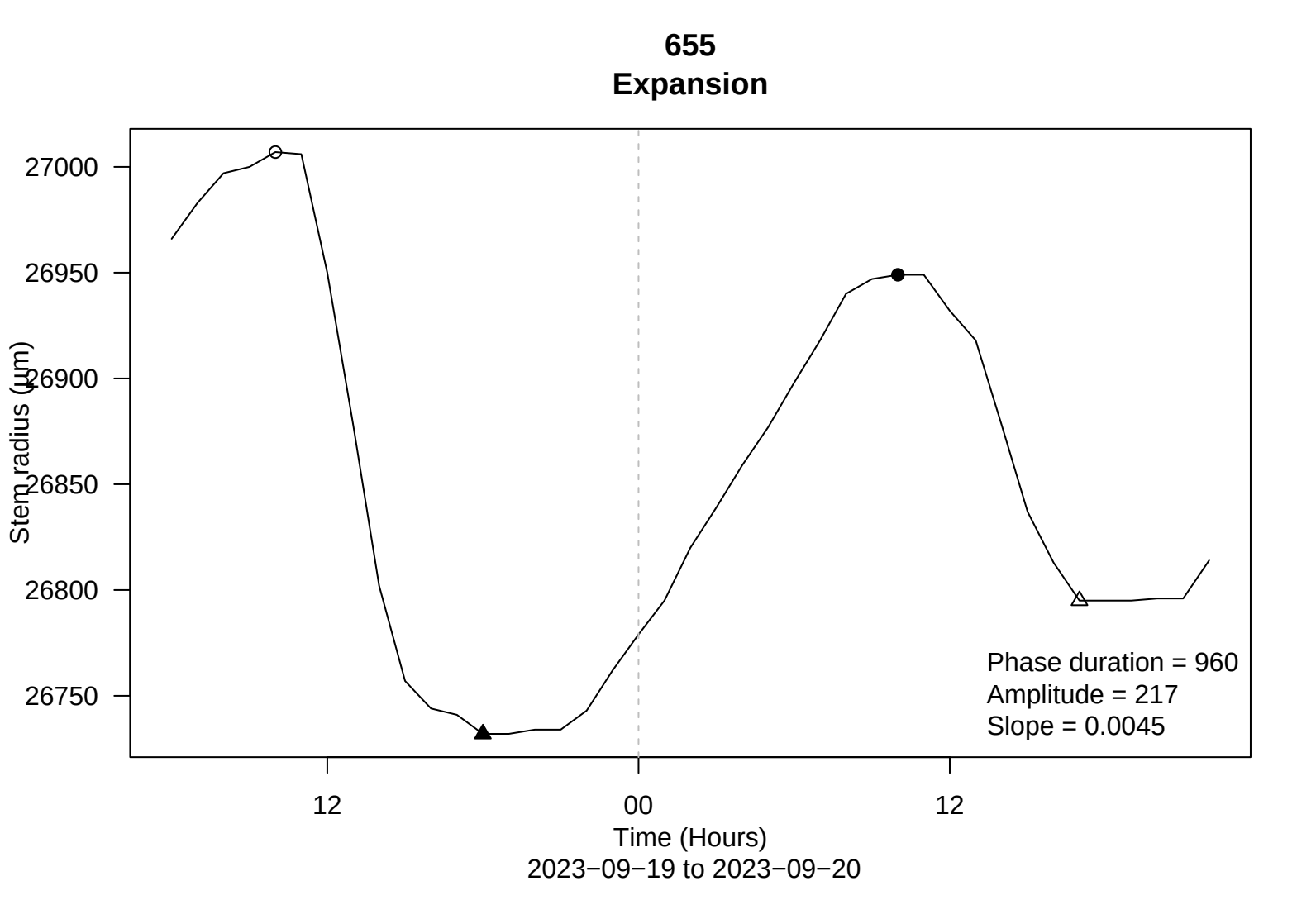

655
Shrinkage
27050
27000
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 480
Amplitude = −254
Slope = −0.0107
00
12
00
Time (Hours)
2023−09−17 to 2023−09−17

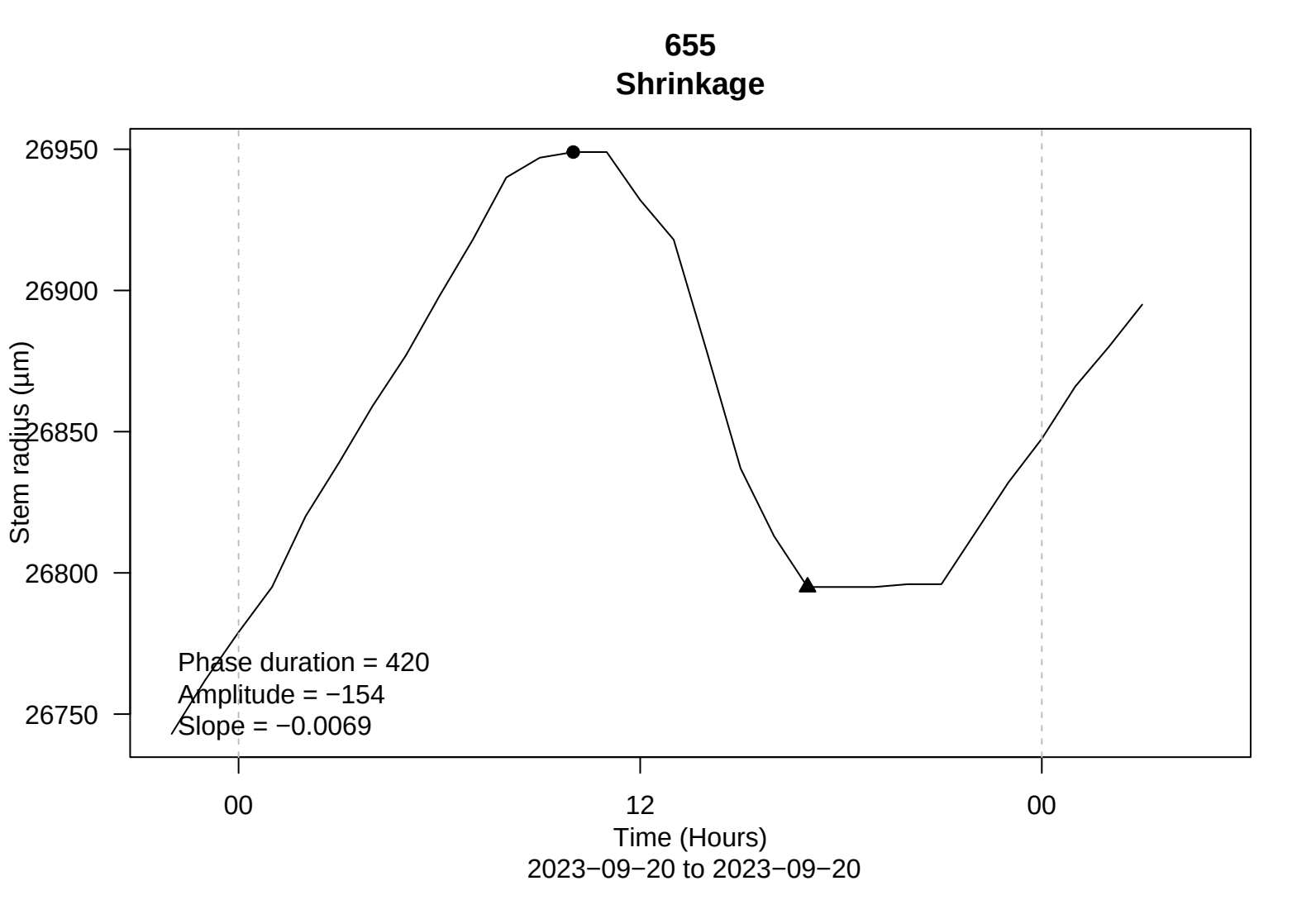

655
Expansion
27050
27000
26950
26900
26850
26800
26750
Stem radius (µm)
Phase duration = 960
Amplitude = 172
Slope = 0.0037
12
00
12
Time (Hours)
2023−09−17 to 2023−09−18

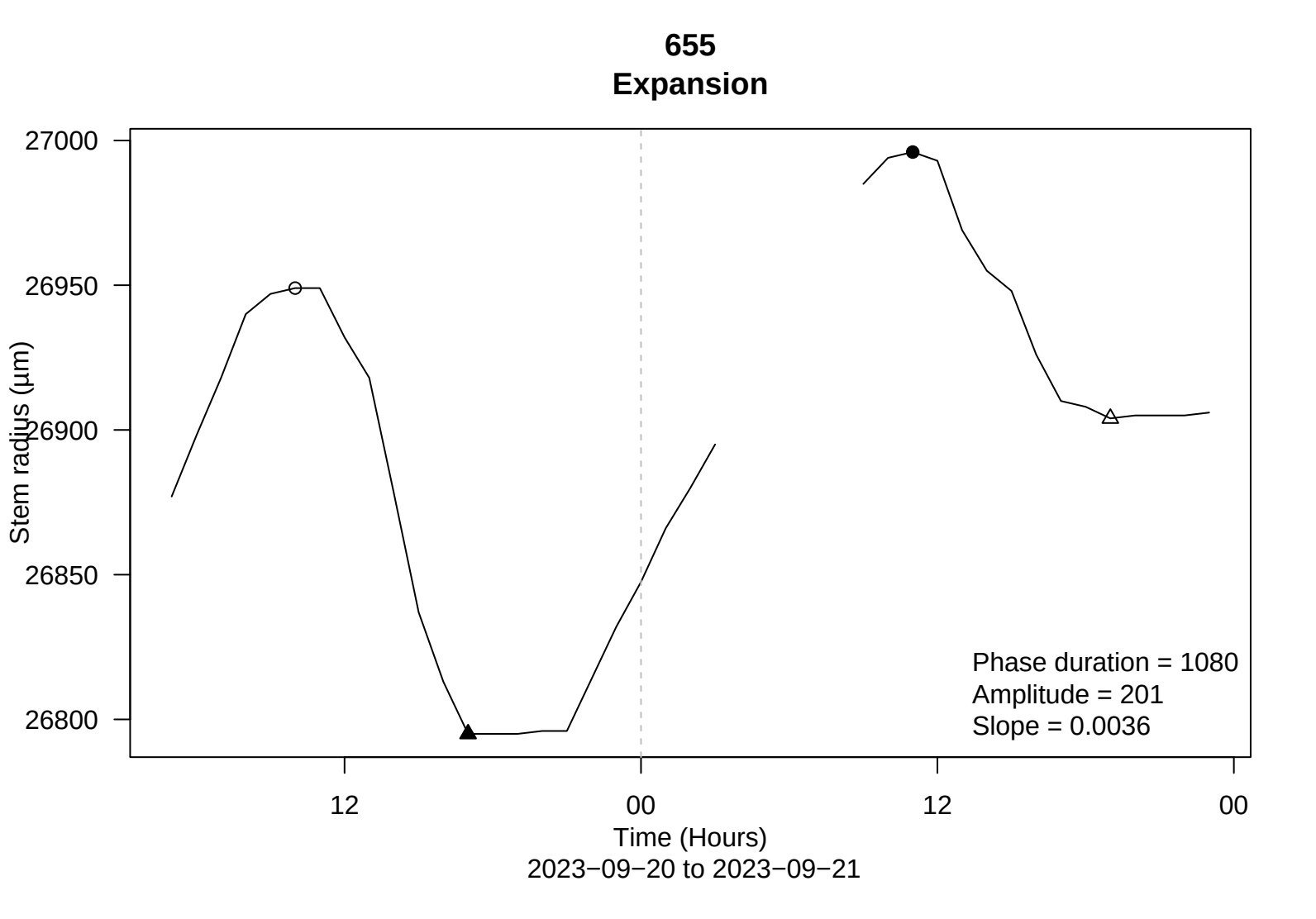

655
Shrinkage
26950
26900
26850
26800
26750
Stem radius (µm)
Phase duration = 360
Amplitude = −250
Slope = −0.0132
00
06
12
18
00
Time (Hours)
2023−09−18 to 2023−09−18

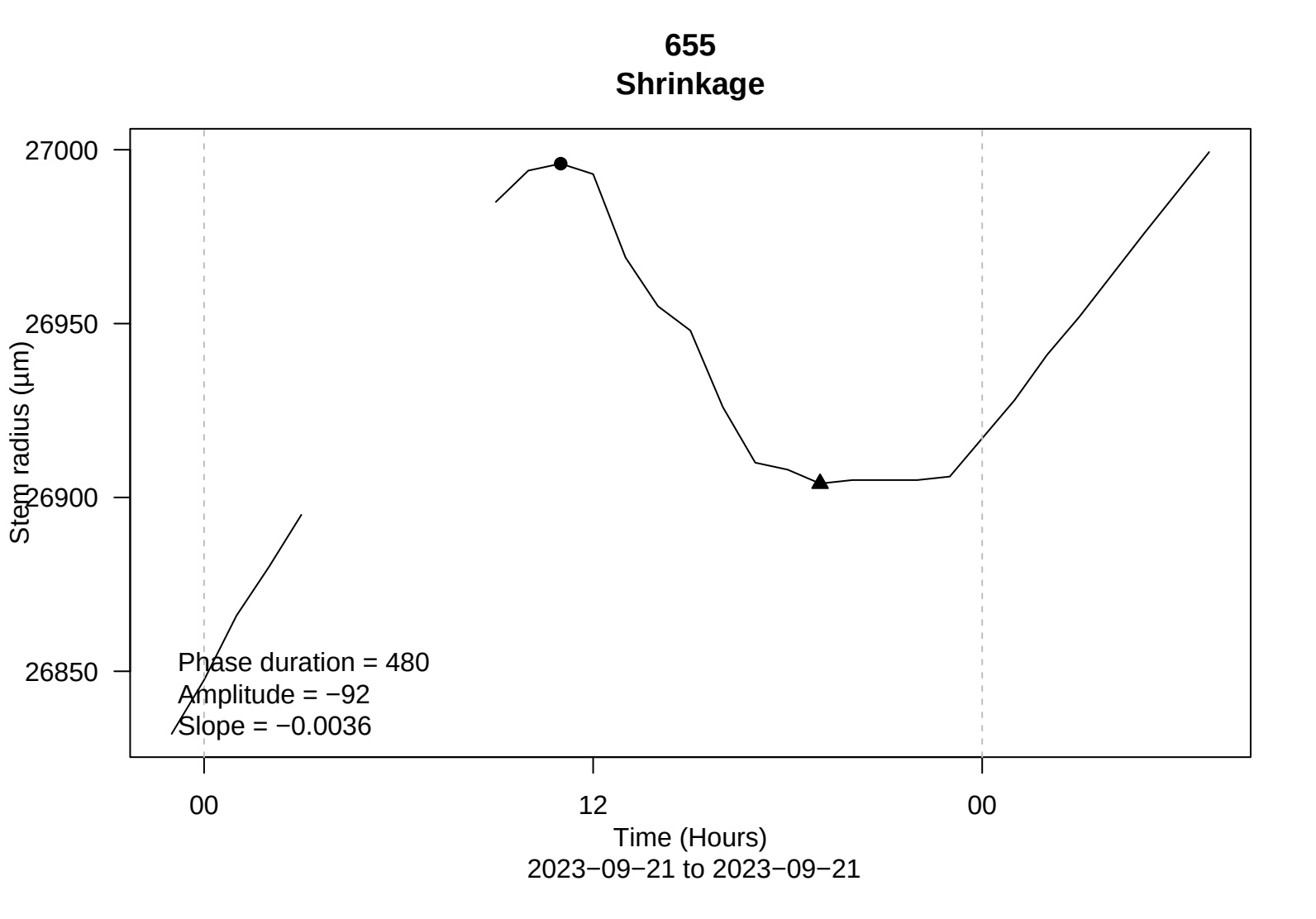

655
Expansion
27000
26950
26900
26850
26800
26750
Stem radius (µm)
Phase duration = 1080
Amplitude = 288
Slope = 0.0054
12
00
12
Time (Hours)
2023−09−18 to 2023−09−19

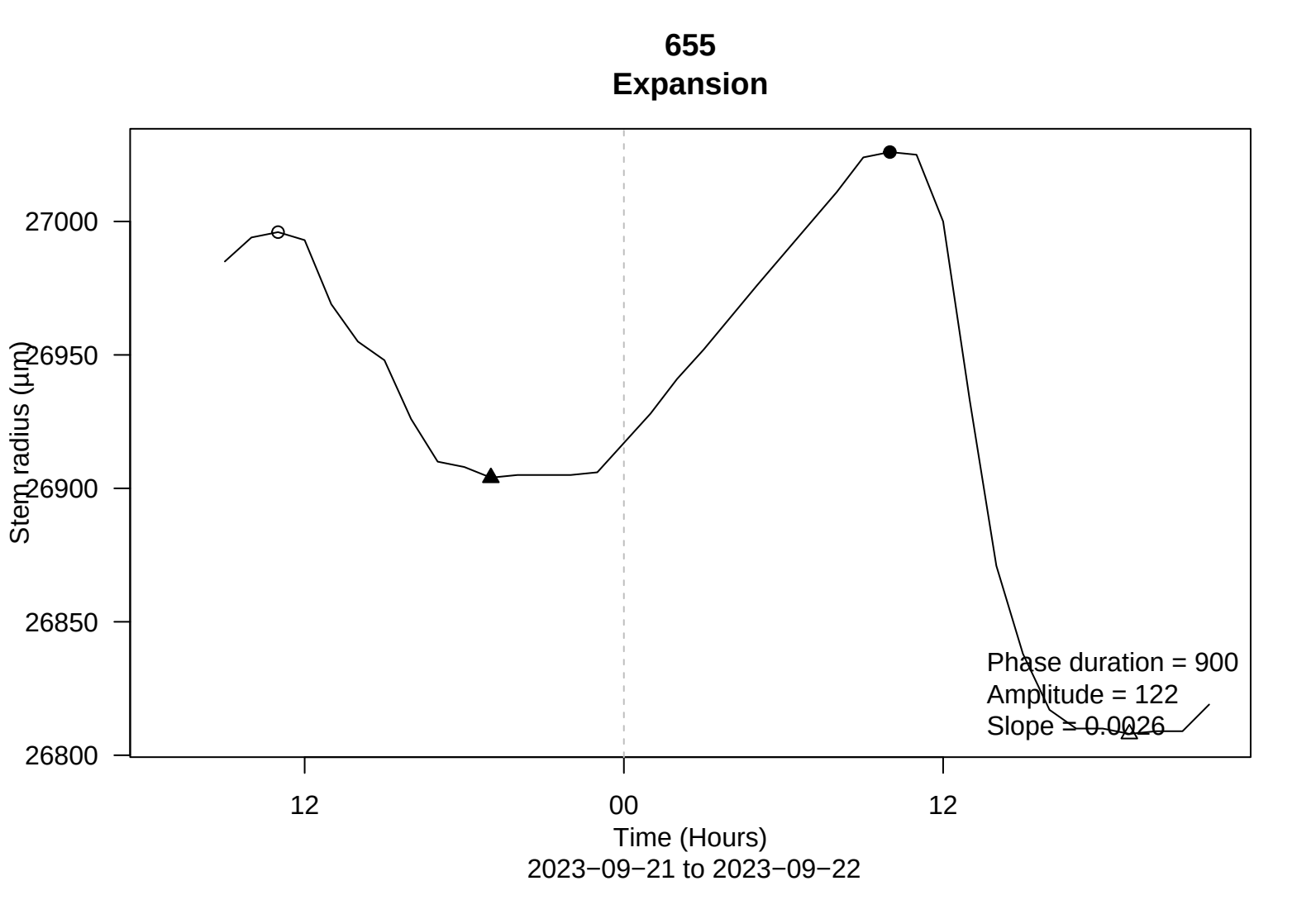

655
Shrinkage
27000
26950
26900
26850
26800
26750
Stem radius (µm)
Phase duration = 480
Amplitude = −275
Slope = −0.0112
00
12
00
Time (Hours)
2023−09−19 to 2023−09−19

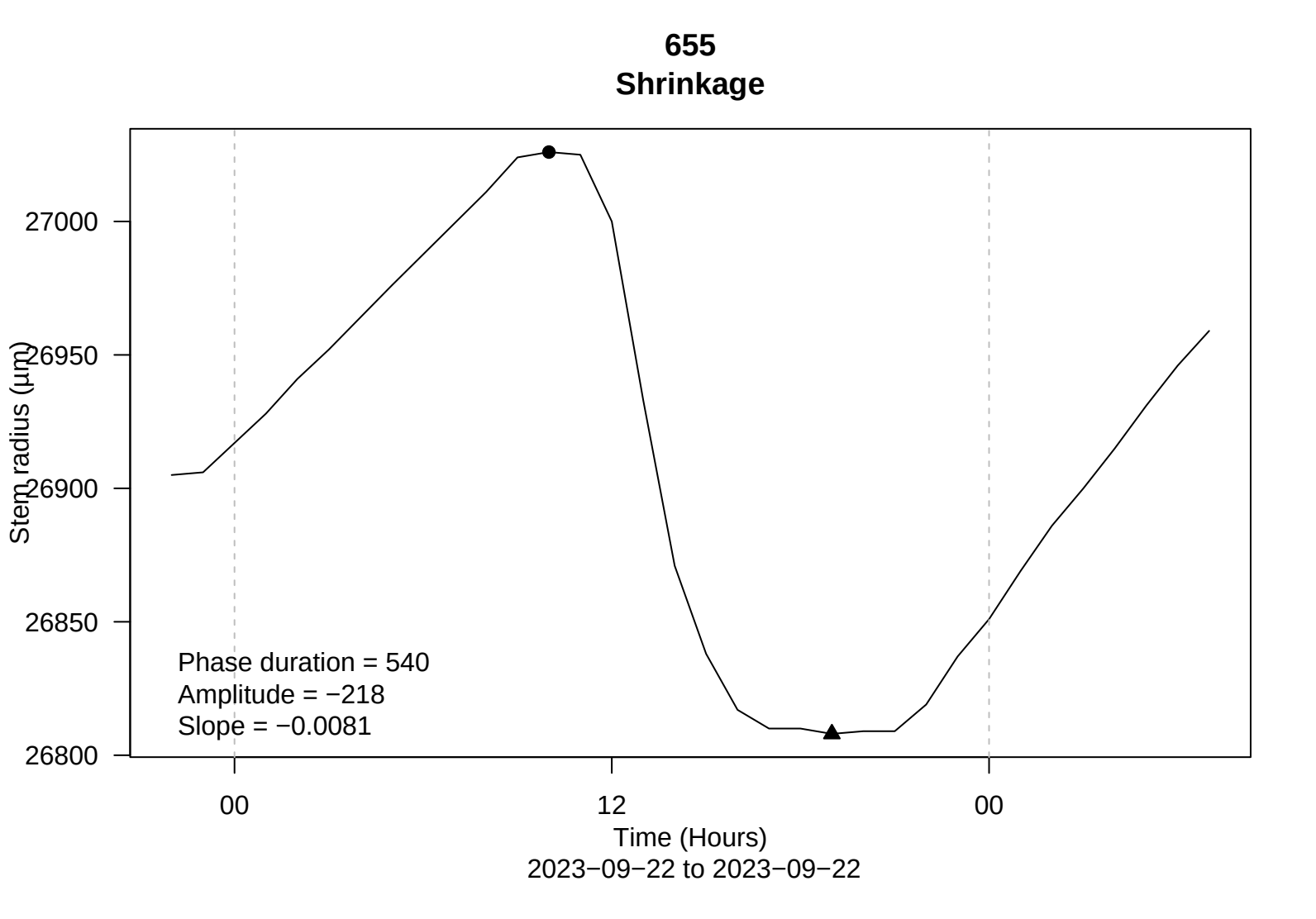

655
Expansion
27000
26950
26900
26850
26800
26750
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−19 to 2023−09−20
Phase duration = 960
Amplitude = 217
Slope = 0.0045

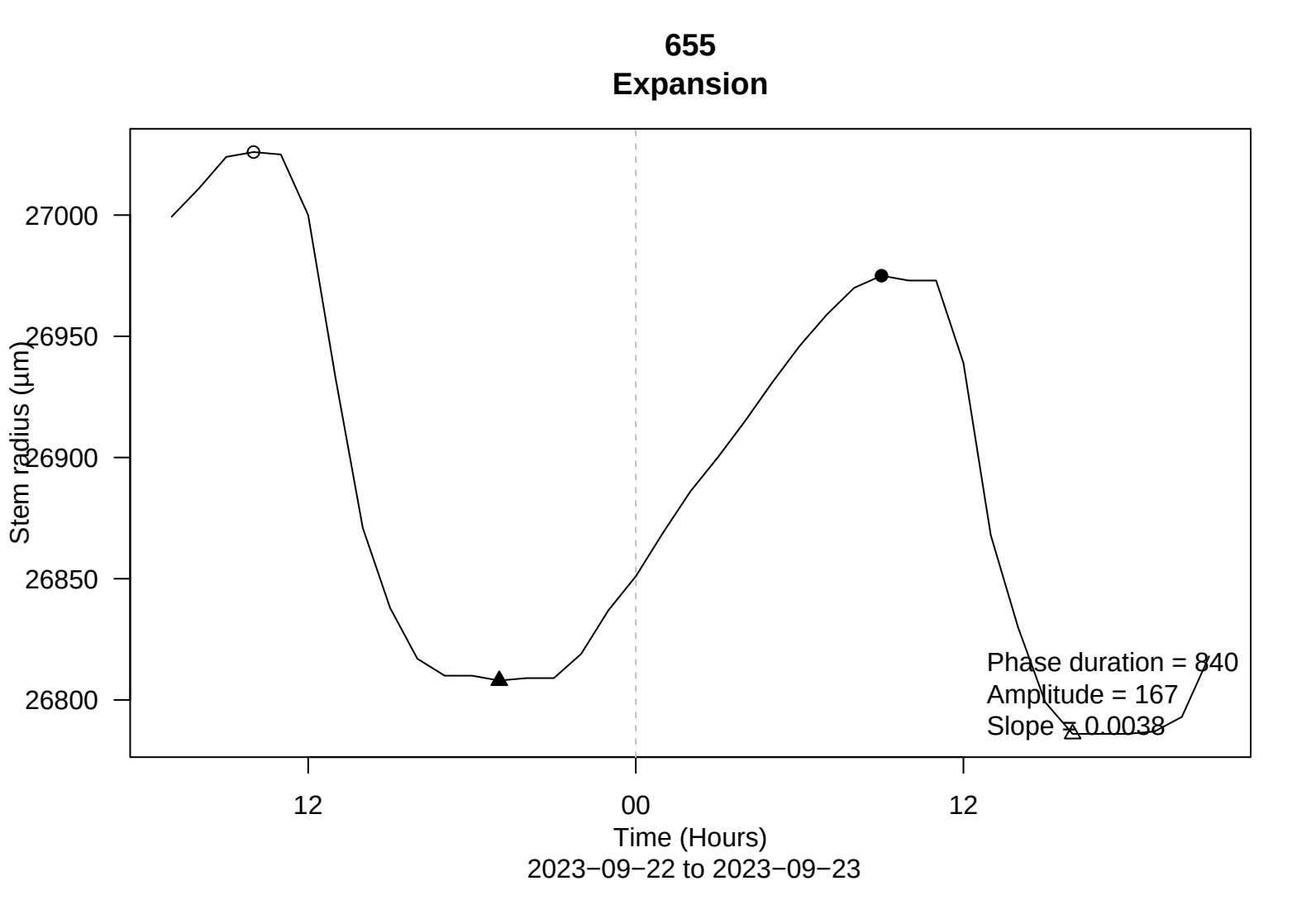

655
Shrinkage
26950
26900
26850
26800
26750
Stem radius (µm)
Phase duration = 420
Amplitude = −154
Slope = −0.0069
00
12
00
Time (Hours)
2023−09−20 to 2023−09−20

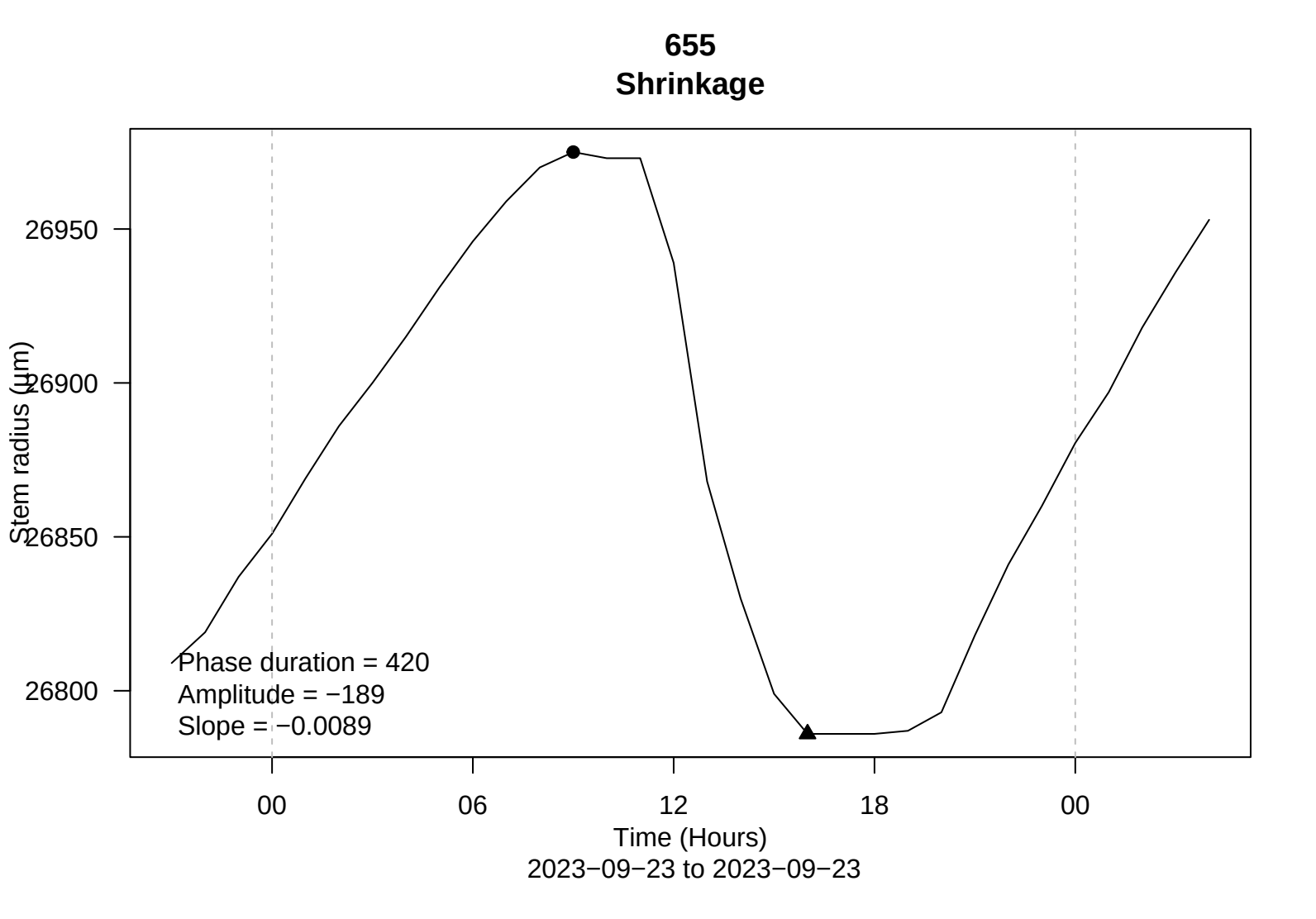

655
Expansion
27000
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 1080
Amplitude = 201
Slope = 0.0036
12
00
12
00
Time (Hours)
2023−09−20 to 2023−09−21

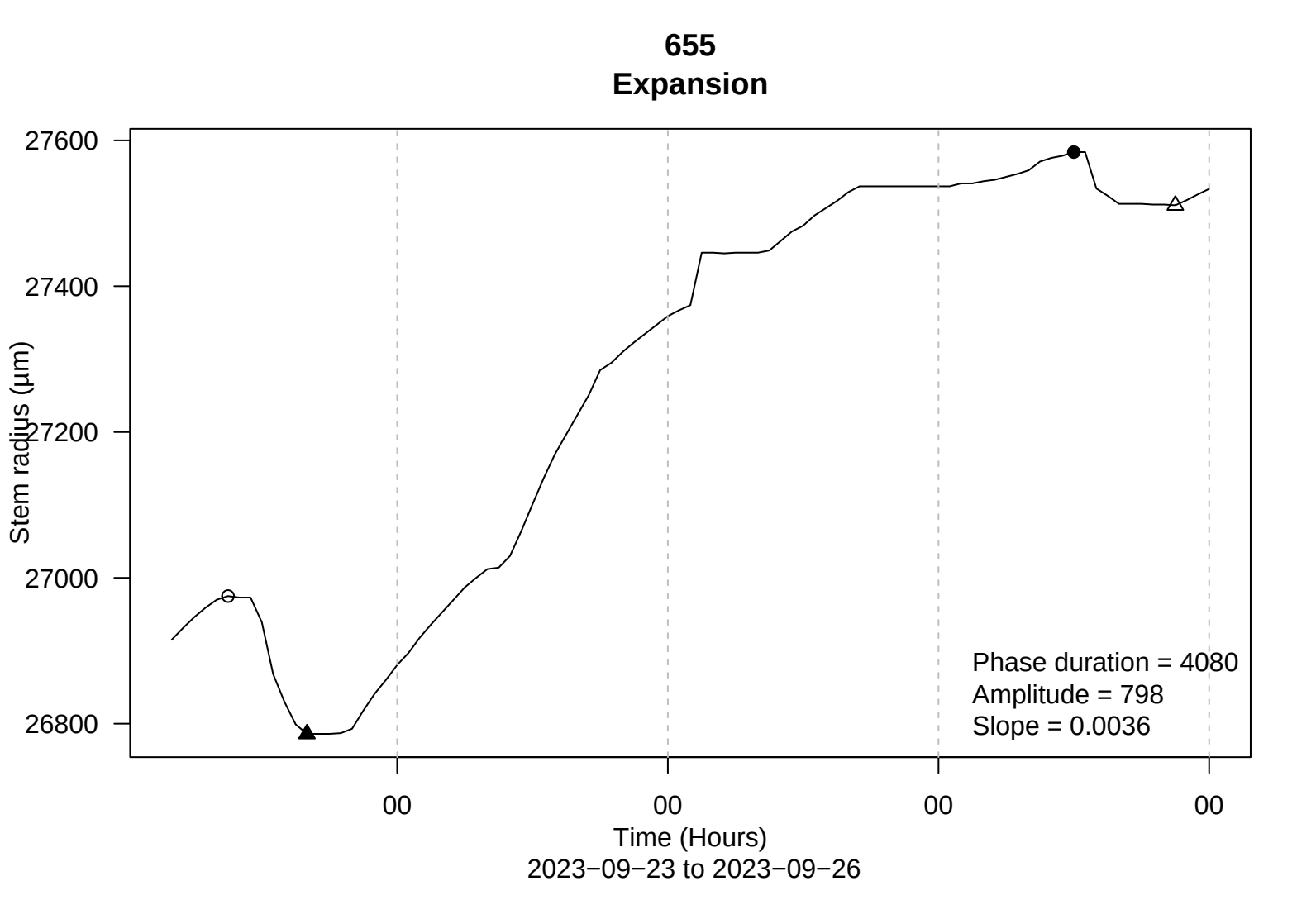

655
Shrinkage
27000
26950
26900
26850
Stem radius (µm)
Phase duration = 480
Amplitude = −92
Slope = −0.0036
00
12
00
Time (Hours)
2023−09−21 to 2023−09−21

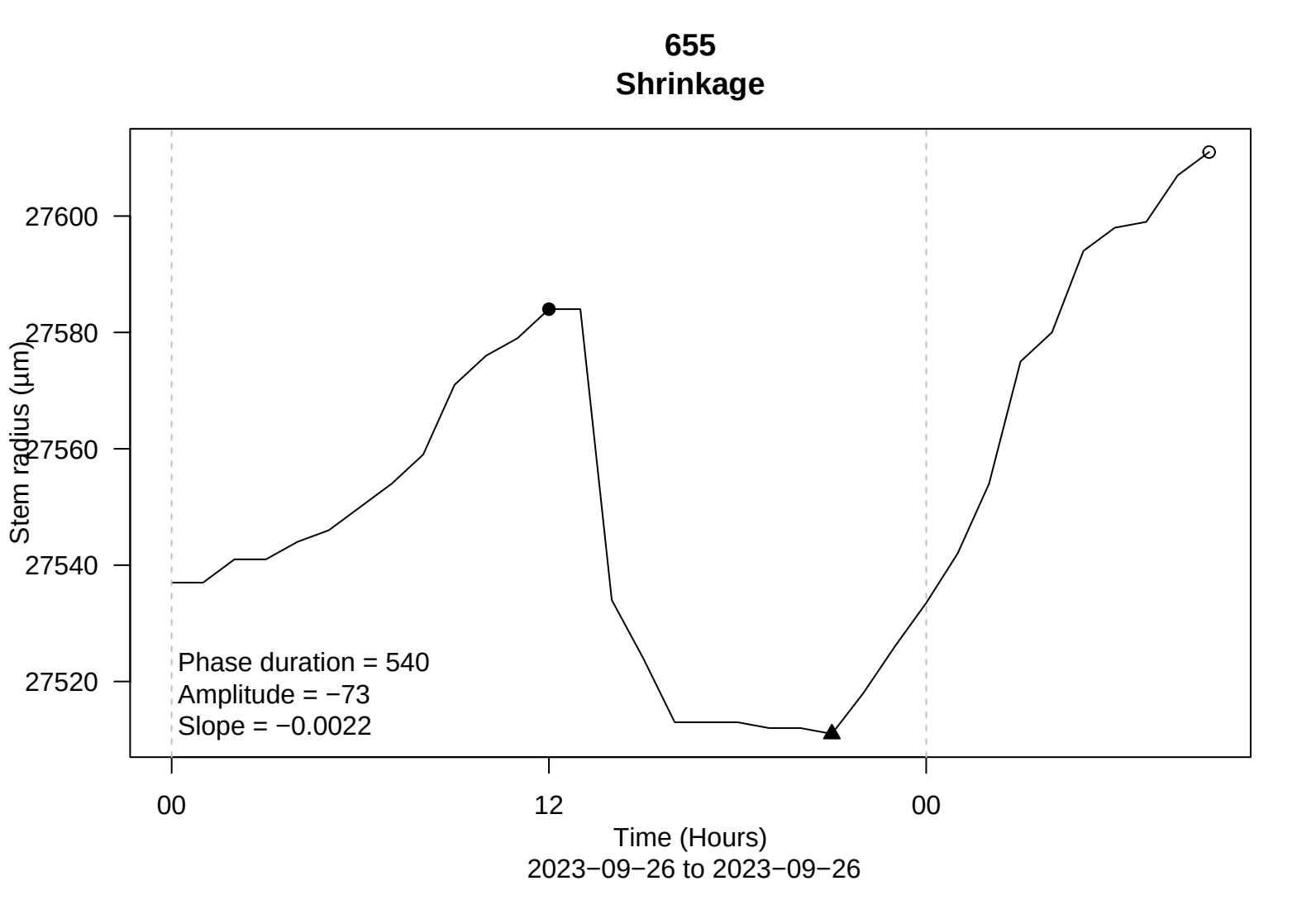

655
Expansion
27000
26950
26900
26850
26800
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−21 to 2023−09−22
Phase duration = 900
Amplitude = 122
Slope = 0.0026

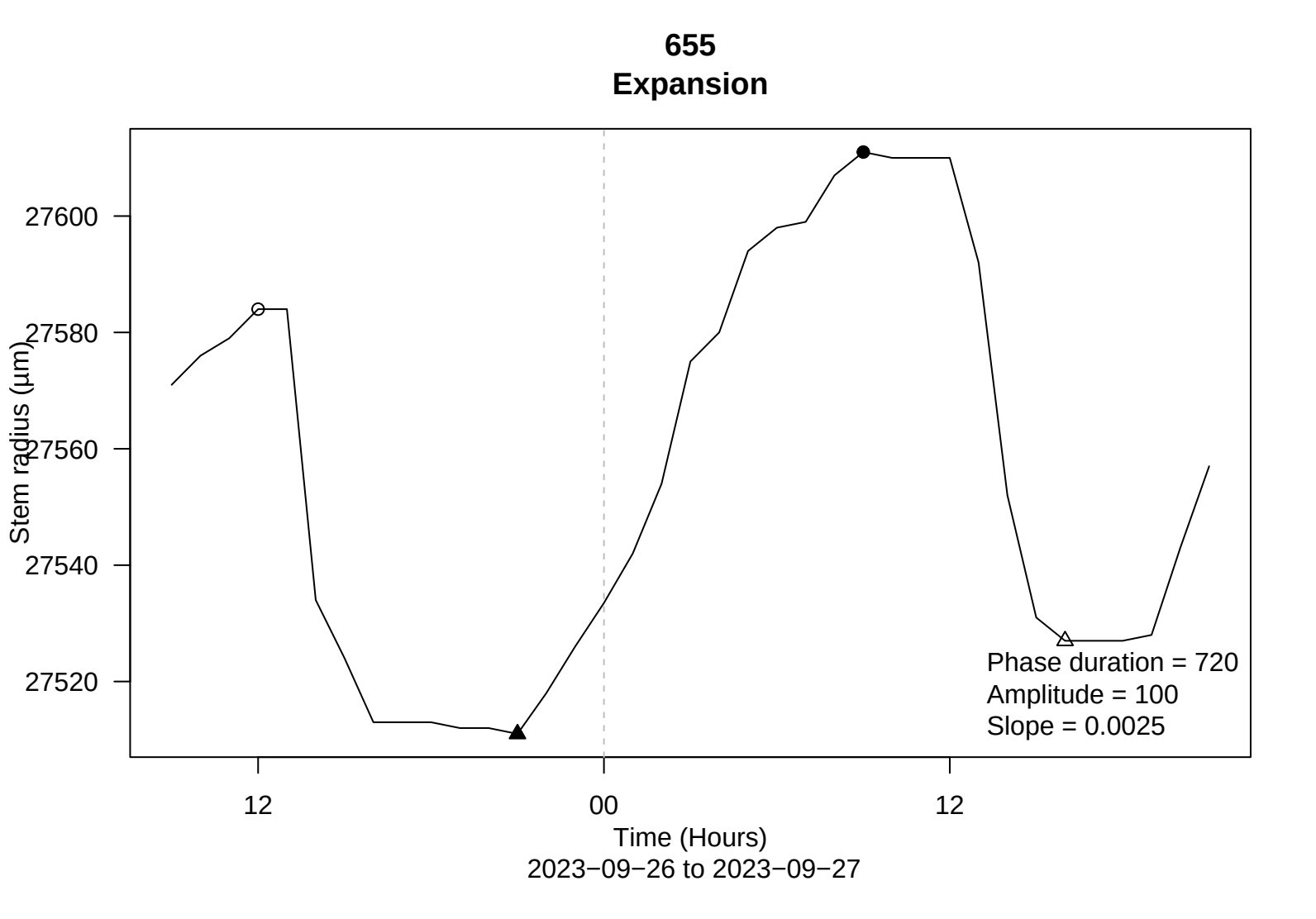

655
Shrinkage
27000
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 540
Amplitude = −218
Slope = −0.0081
00
12
00
Time (Hours)
2023−09−22 to 2023−09−22

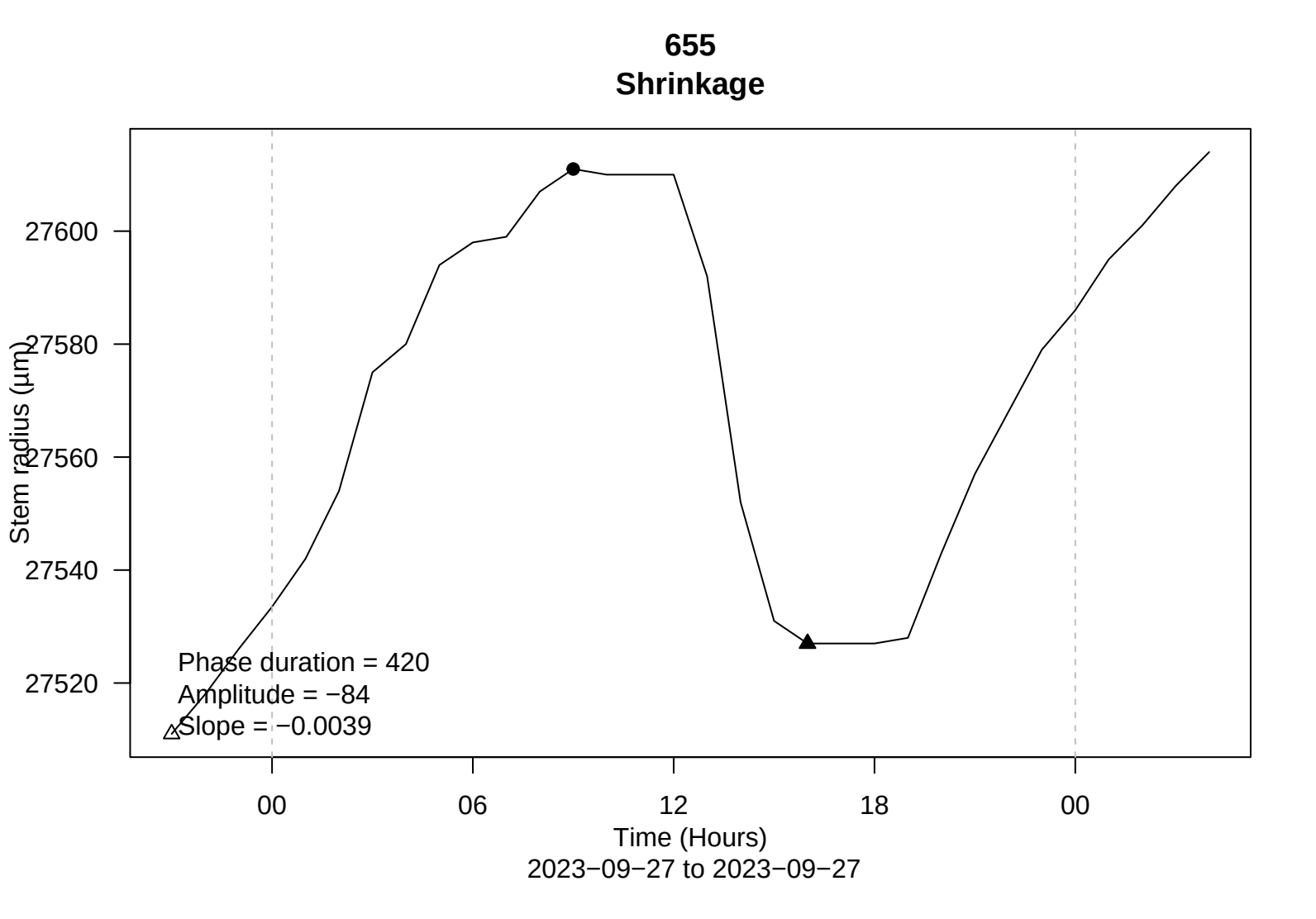

655
Expansion
27000
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 840
Amplitude = 167
Slope = 0.0038
12
00
12
Time (Hours)
2023−09−22 to 2023−09−23

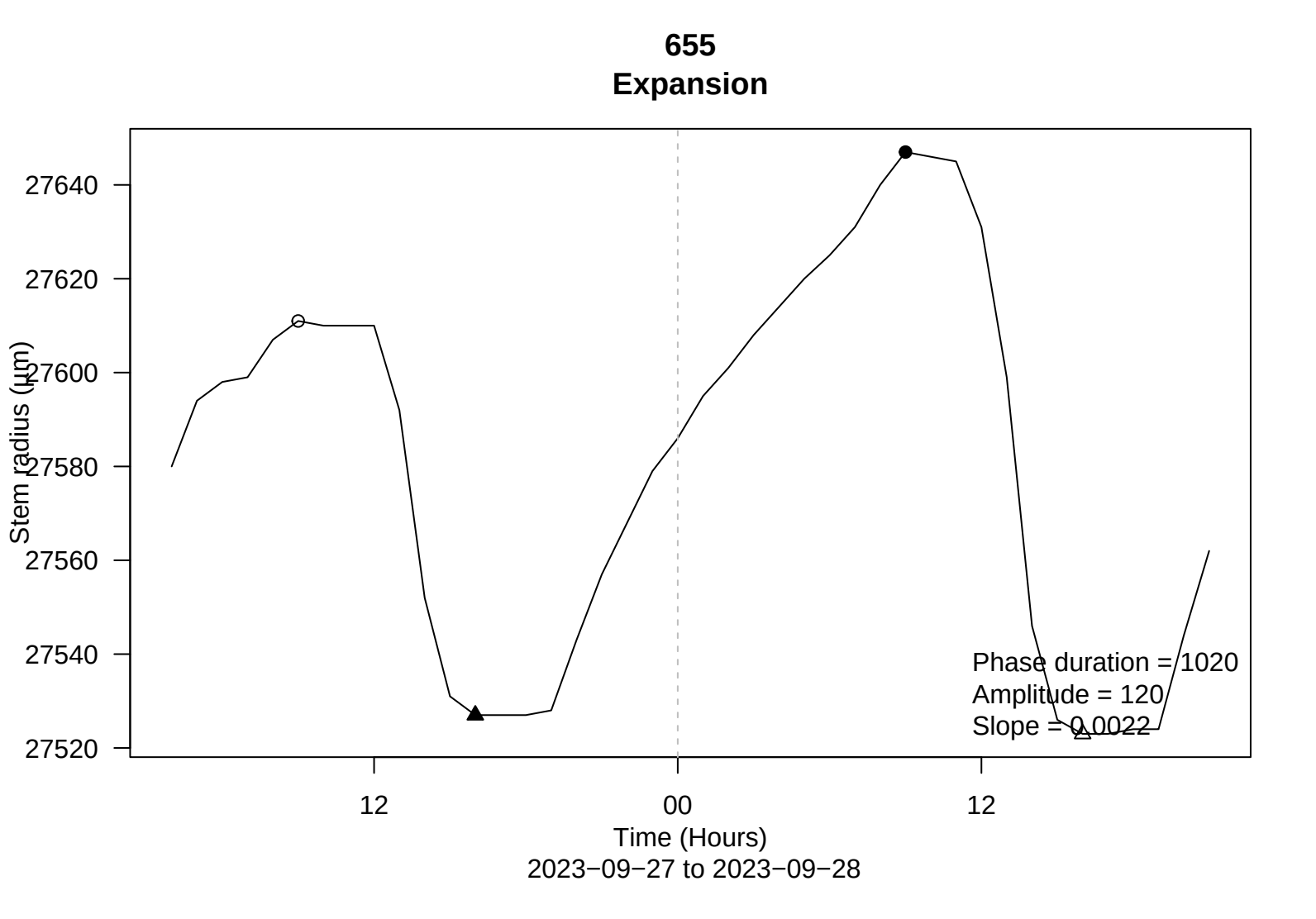

655
Shrinkage
26950
26900
26850
26800
Stem radius (µm)
Phase duration = 420
Amplitude = −189
Slope = −0.0089
00
06
12
18
00
Time (Hours)
2023−09−23 to 2023−09−23

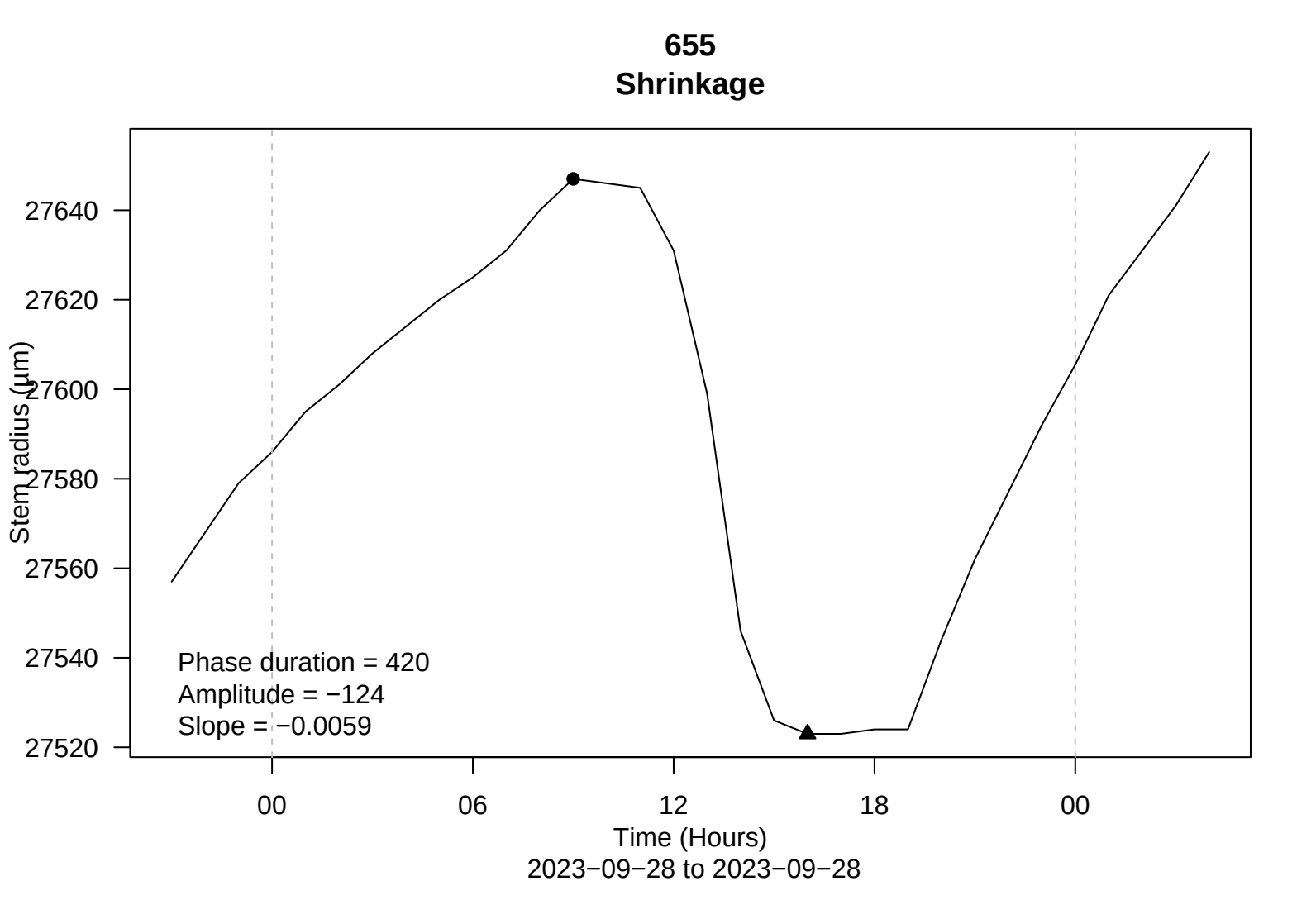

655
Expansion
27600
27400
27200
27000
26800
Stem radius (µm)
00
00
00
00
Time (Hours)
2023−09−23 to 2023−09−26
Phase duration = 4080
Amplitude = 798
Slope = 0.0036

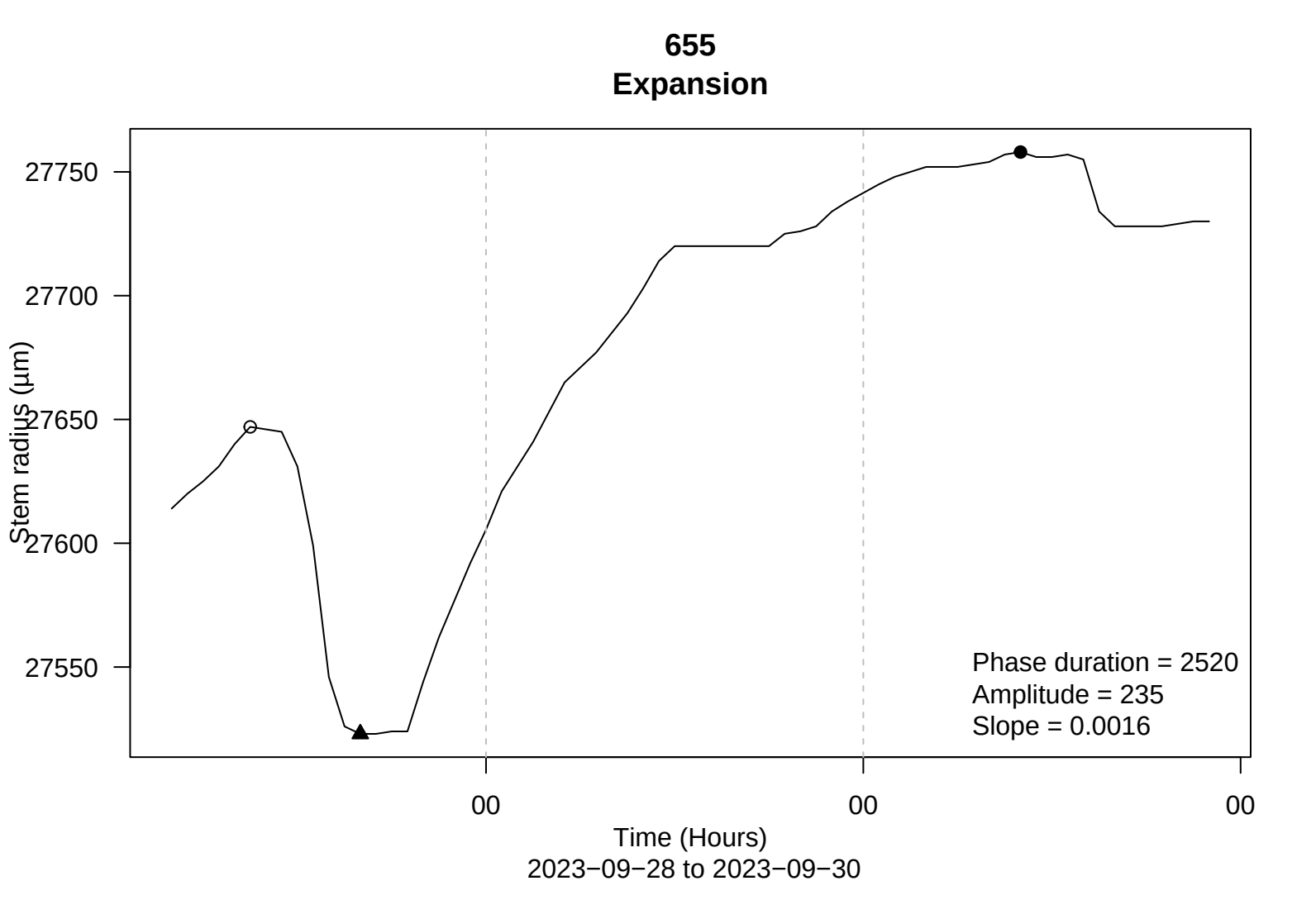

655
Shrinkage
27600
27580
27560
27540
27520
Stem radius (µm)
Phase duration = 540
Amplitude = −73
Slope = −0.0022
00
12
00
Time (Hours)
2023−09−26 to 2023−09−26


655
Expansion
27600
27580
27560
27540
27520
Stem radius (µm)
Phase duration = 720
Amplitude = 100
Slope = 0.0025
12
00
12
Time (Hours)
2023−09−26 to 2023−09−27


655
Shrinkage
Stem radius (µm)
27600
27580
27560
27540
27520
Phase duration = 420
Amplitude = −84
Slope = −0.0039
00
06
12
18
00
Time (Hours)
2023−09−27 to 2023−09−27


655
Expansion
27640
27620
27600
27580
27560
27540
27520
Stem radius (µm)
Phase duration = 1020
Amplitude = 120
Slope = 0.0022
12
00
12
Time (Hours)
2023−09−27 to 2023−09−28


655
Shrinkage
27640
27620
27600
27580
27560
27540
27520
Stem radius (µm)
Phase duration = 420
Amplitude = −124
Slope = −0.0059
00
06
12
18
00
Time (Hours)
2023−09−28 to 2023−09−28


655
Expansion
27750
27700
27650
27600
27550
Stem radius (µm)
Phase duration = 2520
Amplitude = 235
Slope = 0.0016
00
00
00
Time (Hours)
2023−09−28 to 2023−09−30