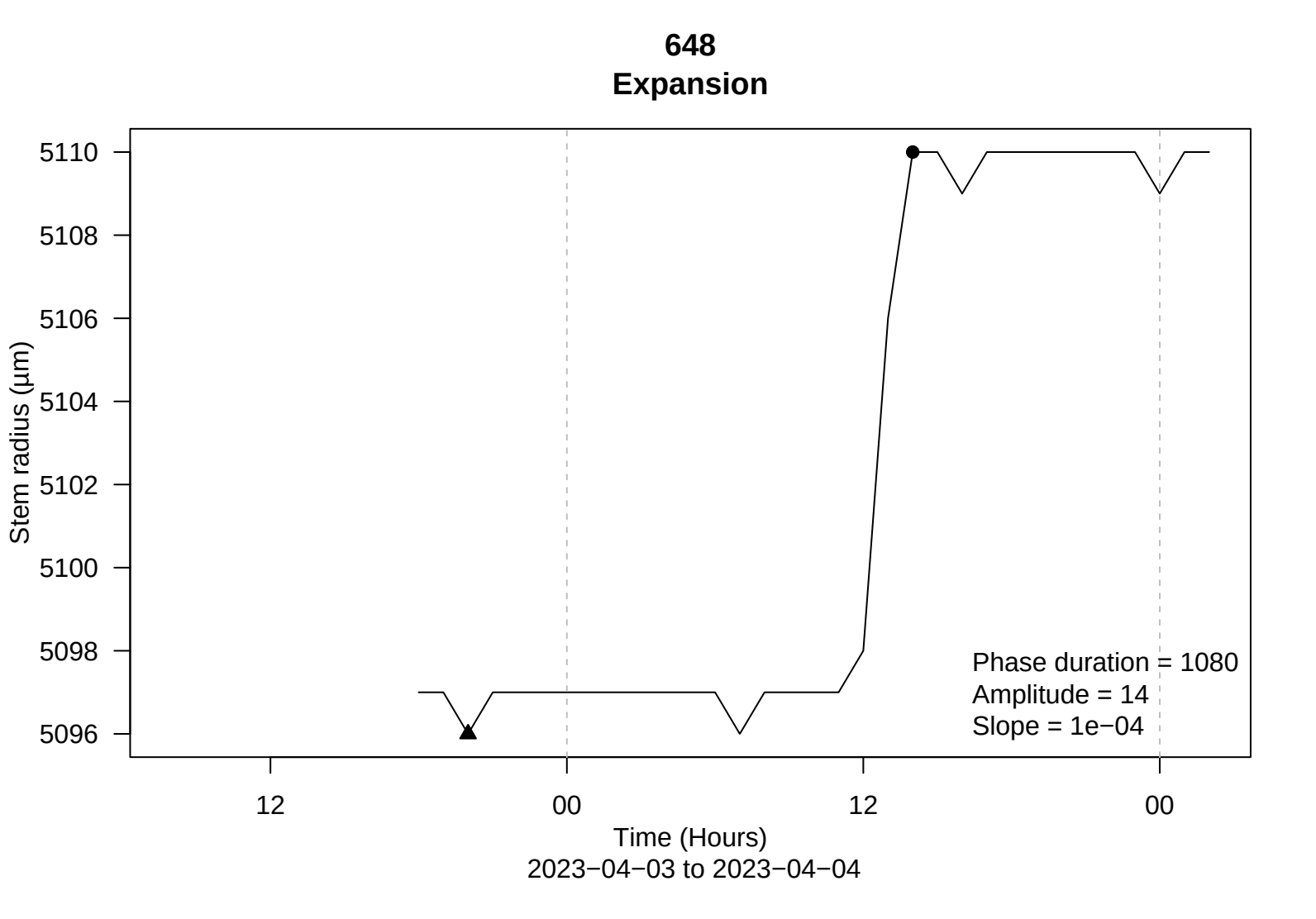
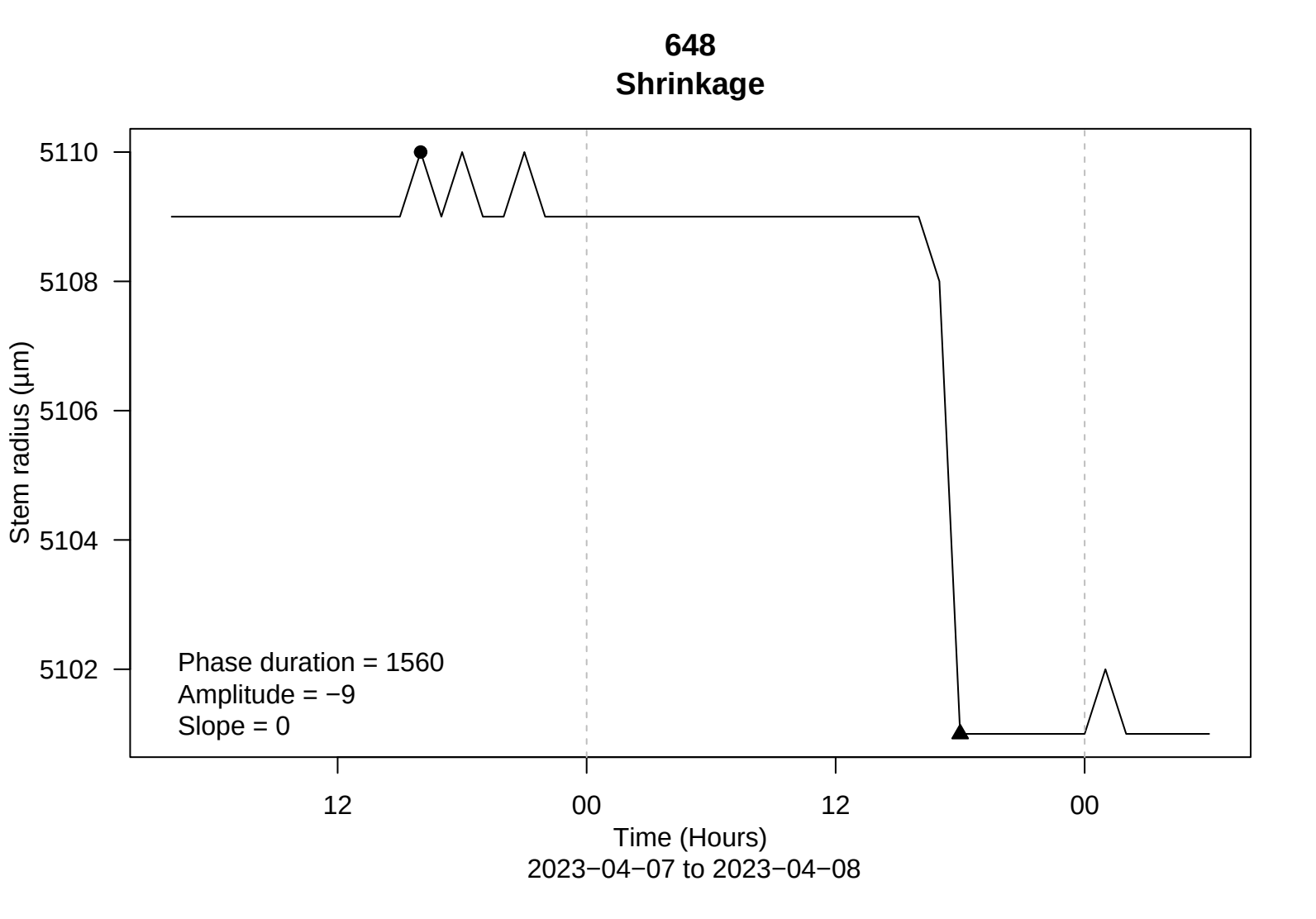
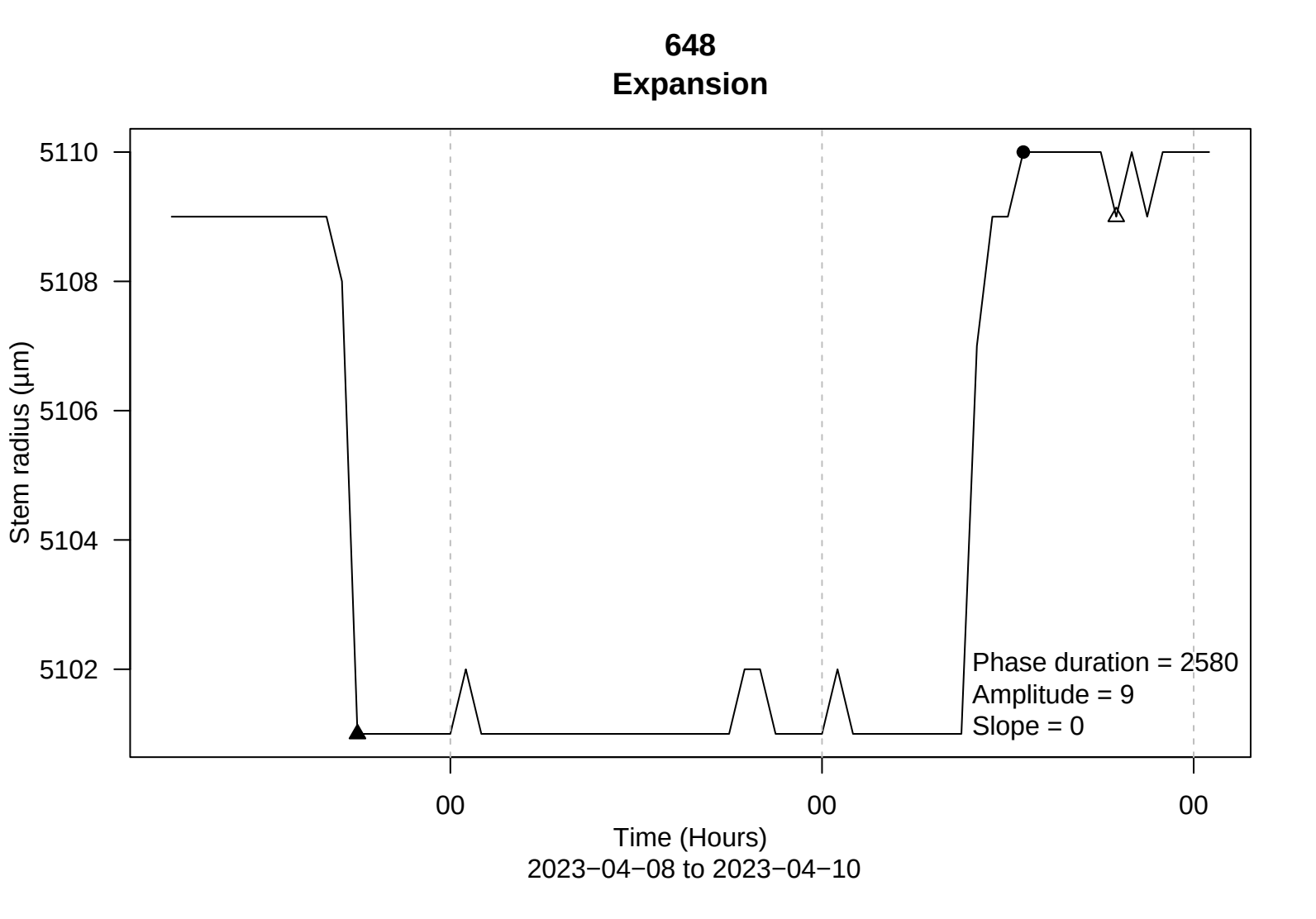
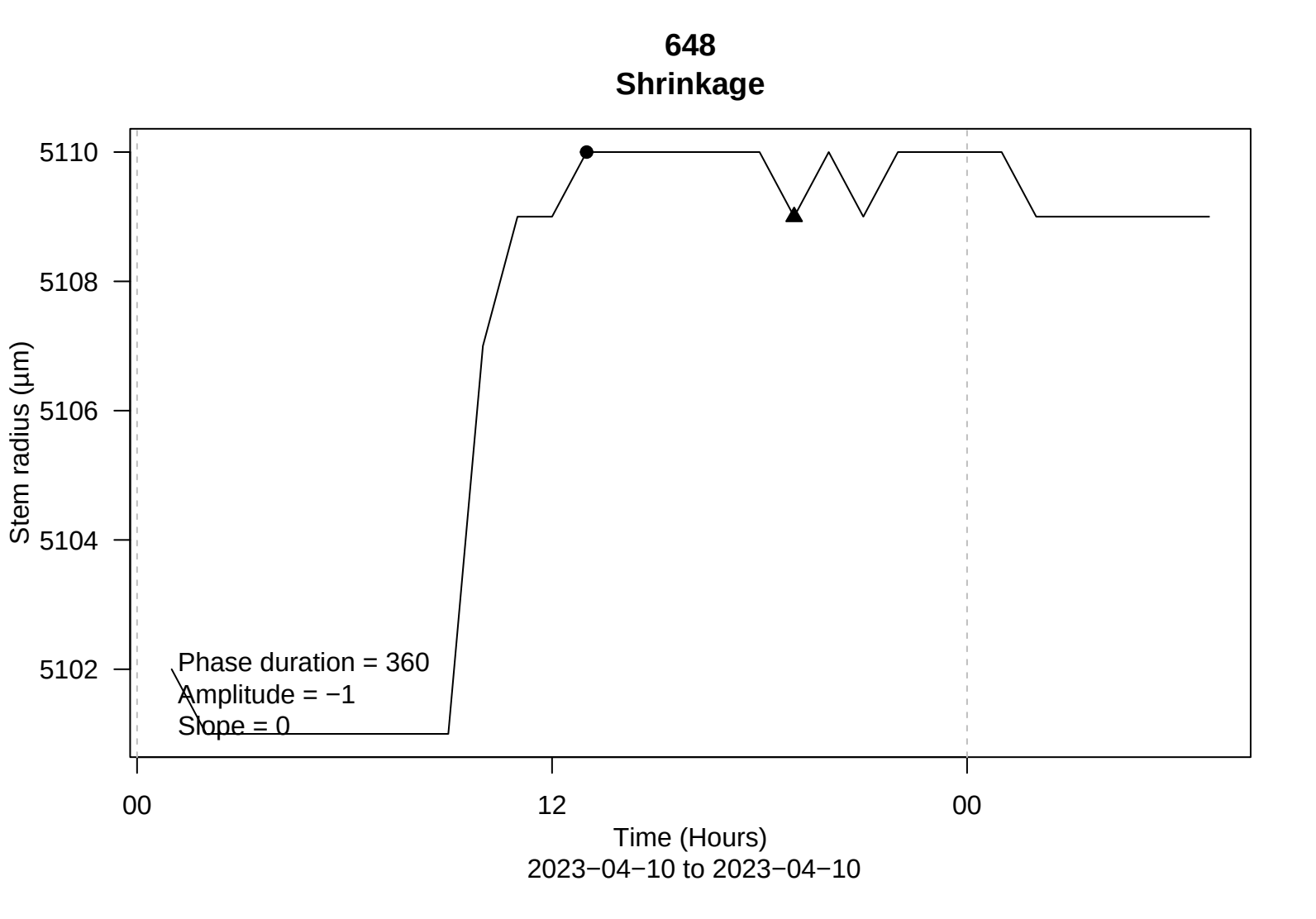
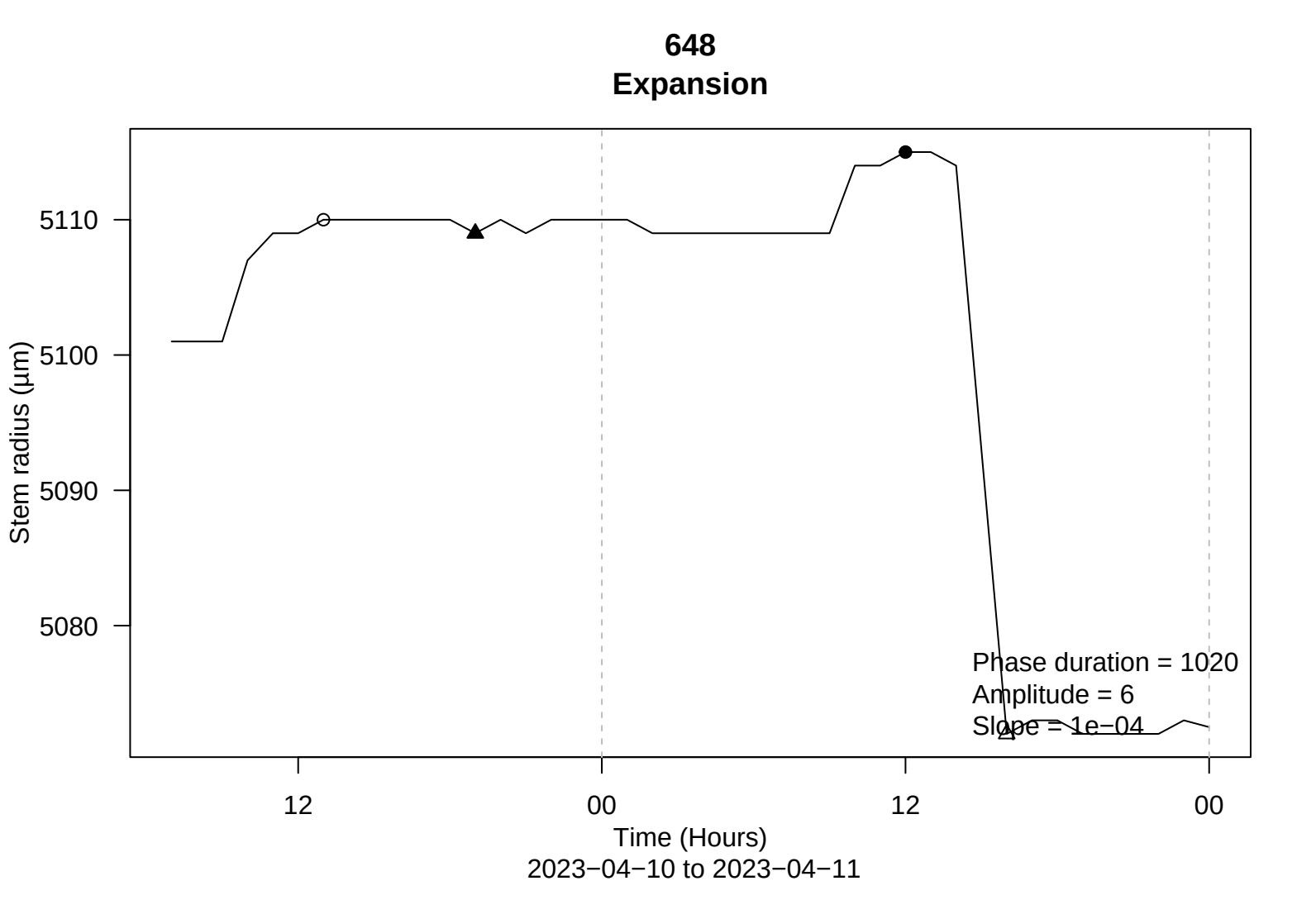
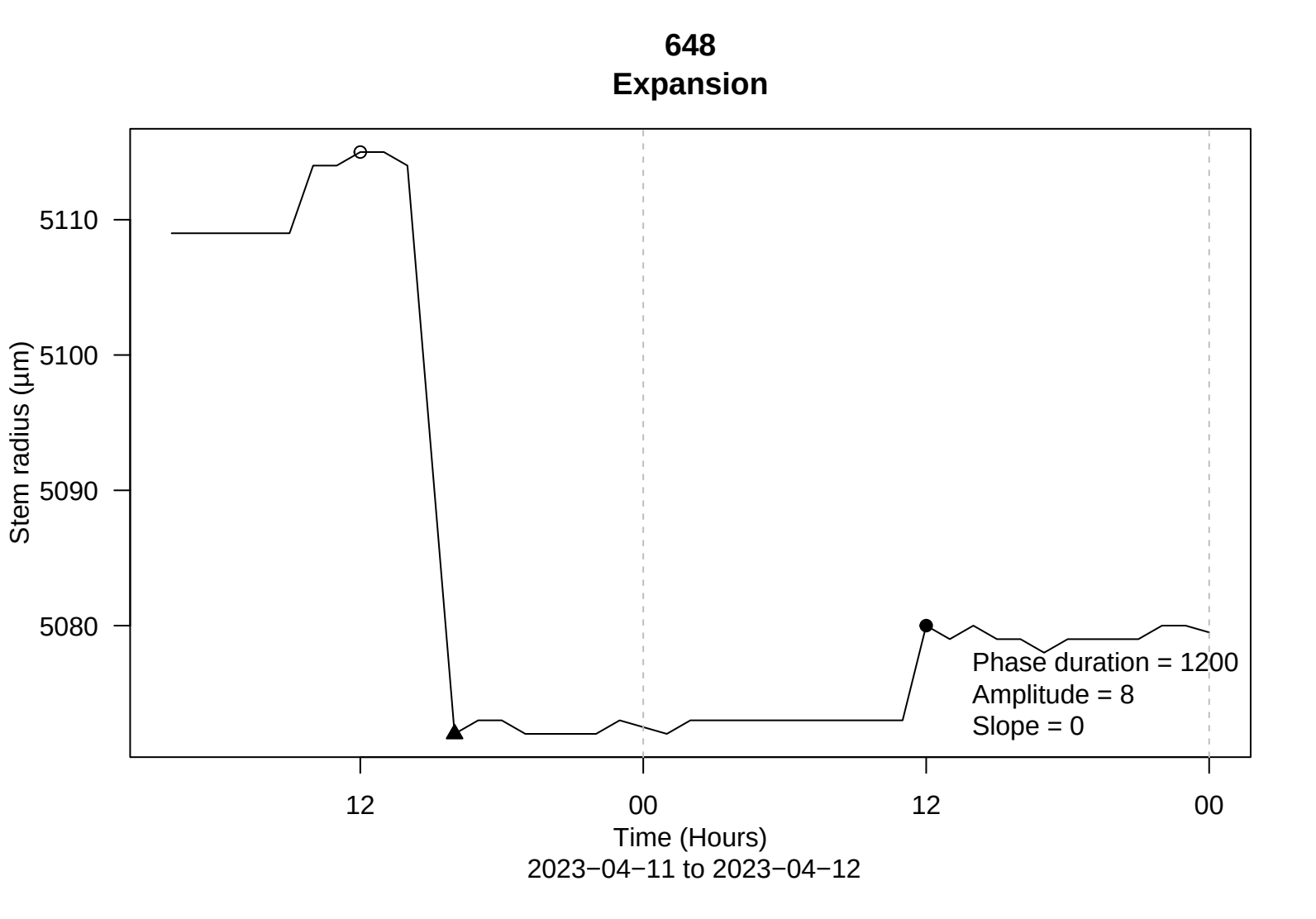

648
Expansion
5110
5108
5106
5104
5102
5100
5098
5096
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−04−03 to 2023−04−04
Phase duration = 1080
Amplitude = 14
Slope = 1e−04

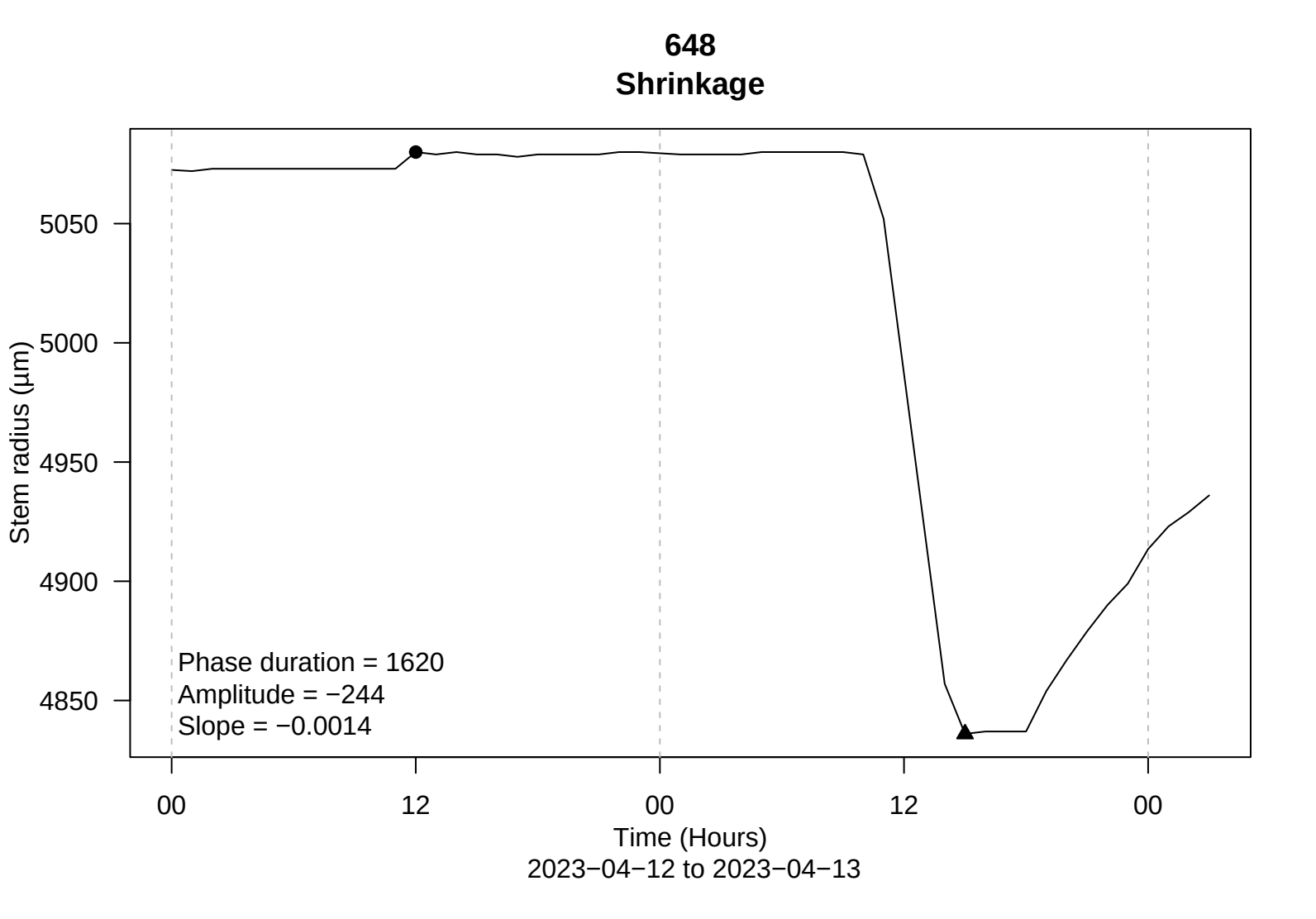

648
Shrinkage
5110
5108
5106
5104
5102
Stem radius (µm)
Phase duration = 1560
Amplitude = −9
Slope = 0
12
00
12
00
Time (Hours)
2023−04−07 to 2023−04−08

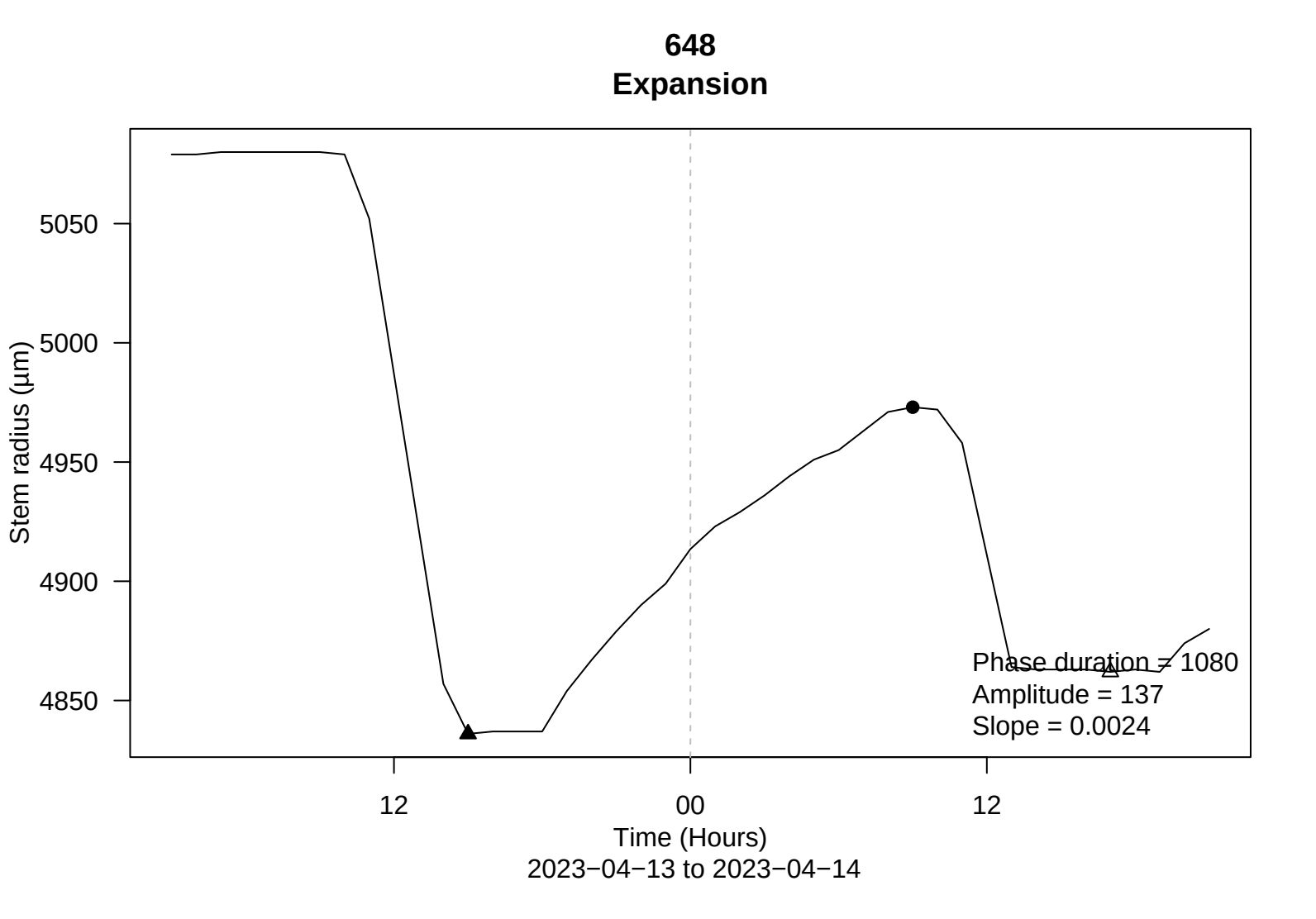

648
Expansion
5110
5108
5106
5104
5102
Stem radius (µm)
Phase duration = 2580
Amplitude = 9
Slope = 0
00
00
00
Time (Hours)
2023−04−08 to 2023−04−10

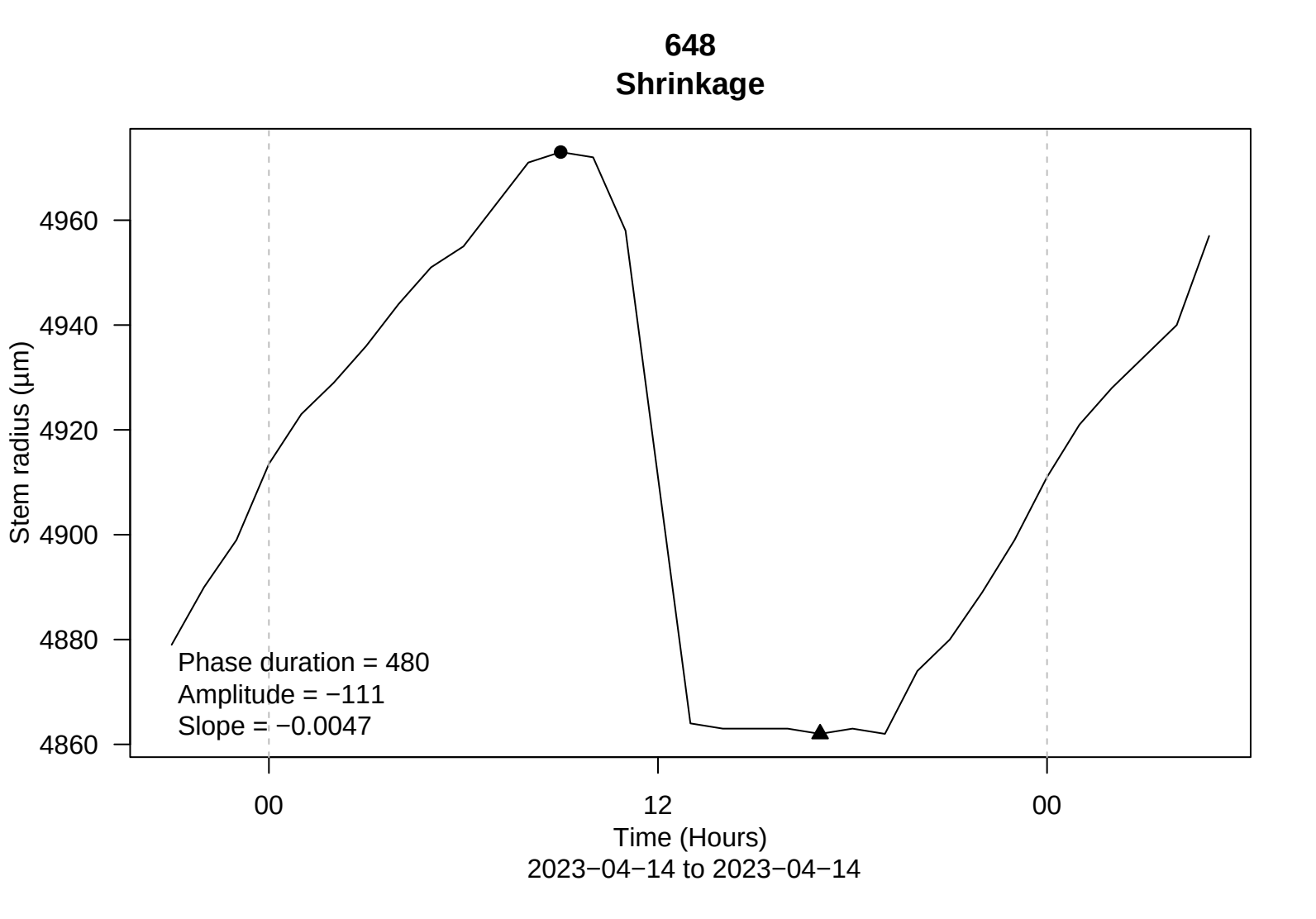

648
Shrinkage
5110
5108
5106
5104
5102
Stem radius (µm)
Phase duration = 360
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2023−04−10 to 2023−04−10

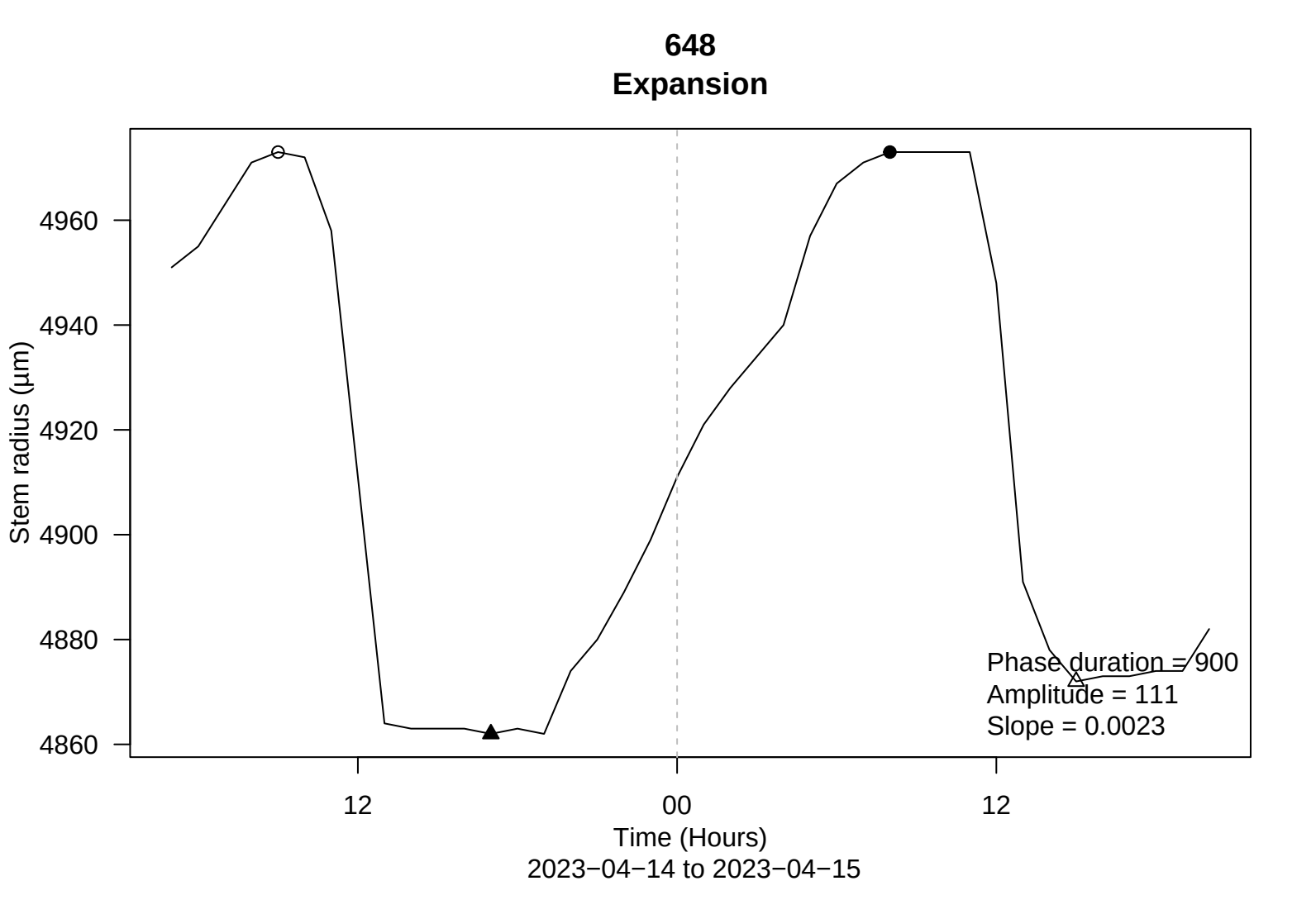

648
Expansion
5110
5100
5090
5080
Stem radius (µm)
Phase duration = 1020
Amplitude = 6
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−04−10 to 2023−04−11

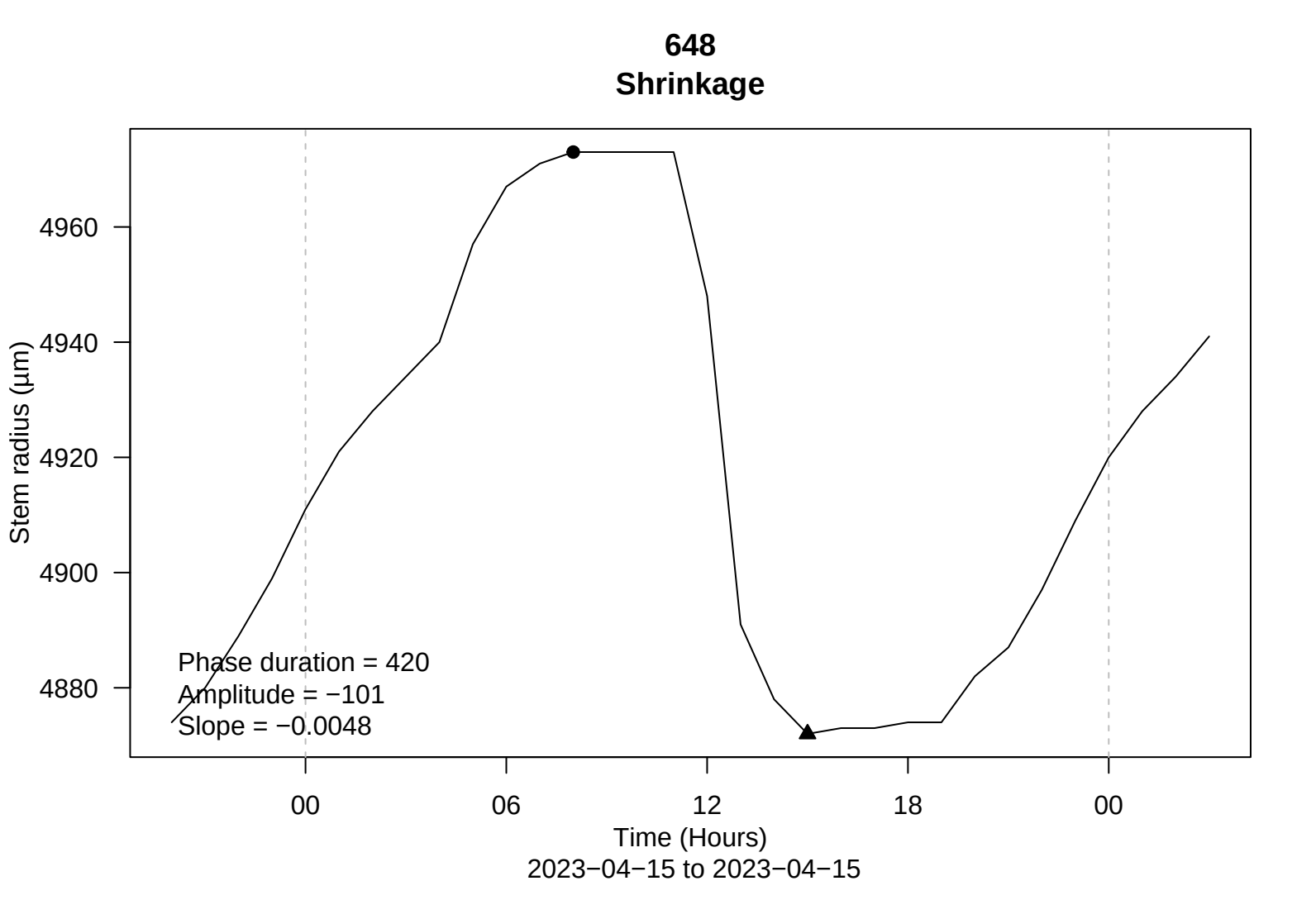

648
Expansion
5110
5100
5090
5080
Stem radius (µm)
Phase duration = 1200
Amplitude = 8
Slope = 0
12
00
12
00
Time (Hours)
2023−04−11 to 2023−04−12

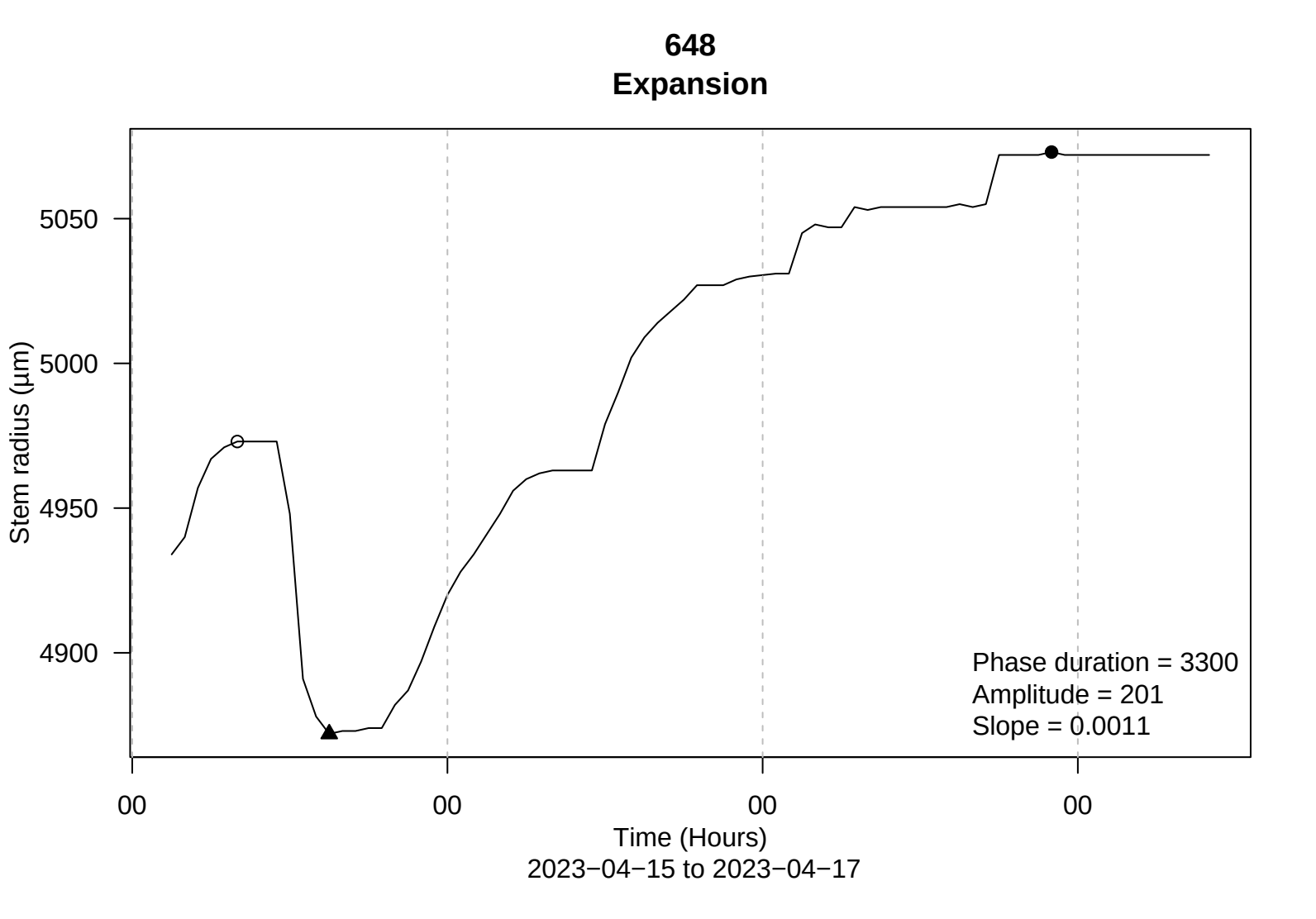

648
Shrinkage
5050
5000
4950
4900
4850
Stem radius (µm)
Phase duration = 1620
Amplitude = −244
Slope = −0.0014
00
12
00
12
00
Time (Hours)
2023−04−12 to 2023−04−13

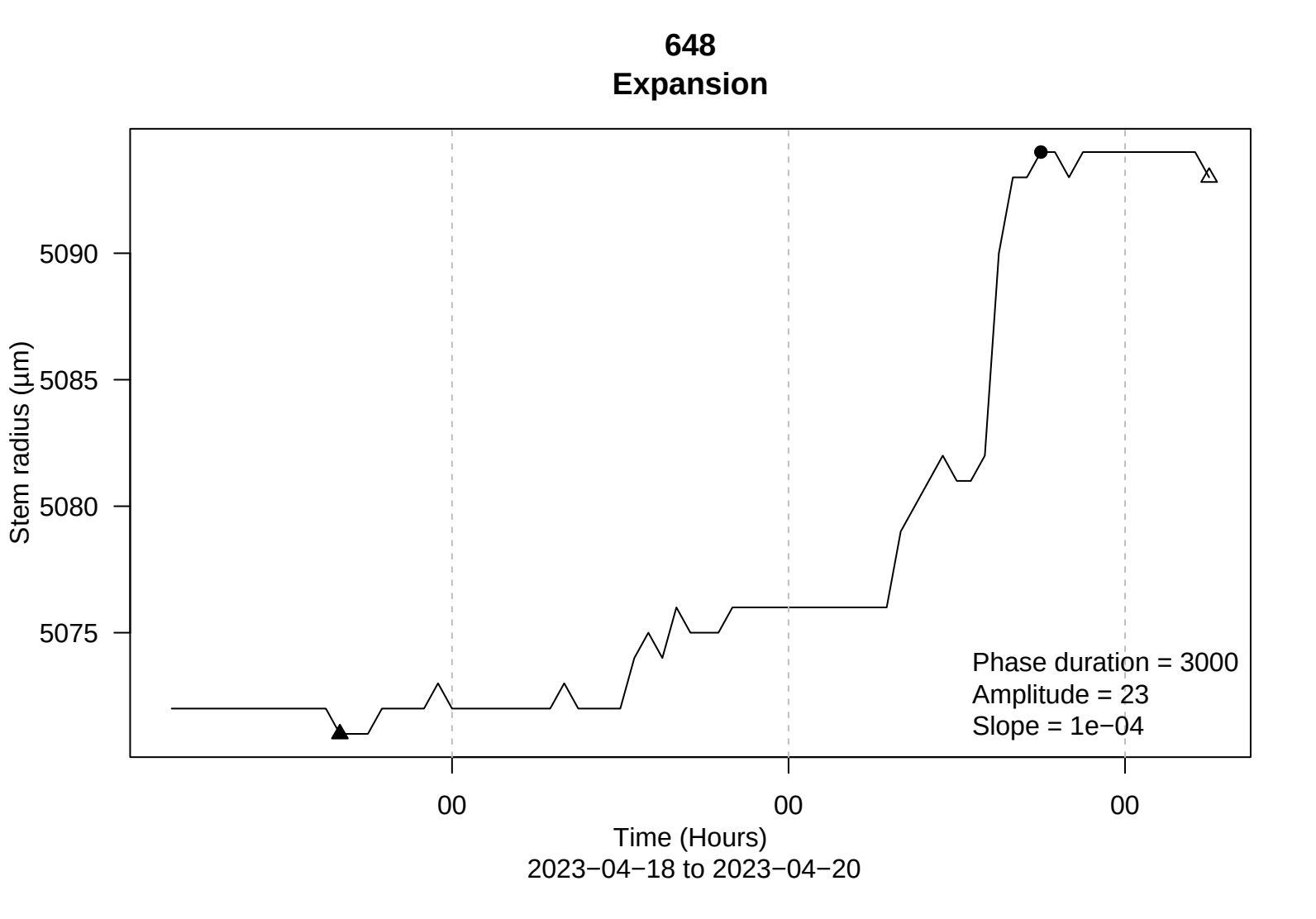

648
Expansion
5050
5000
4950
4900
4850
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−13 to 2023−04−14
Phase duration = 1080
Amplitude = 137
Slope = 0.0024

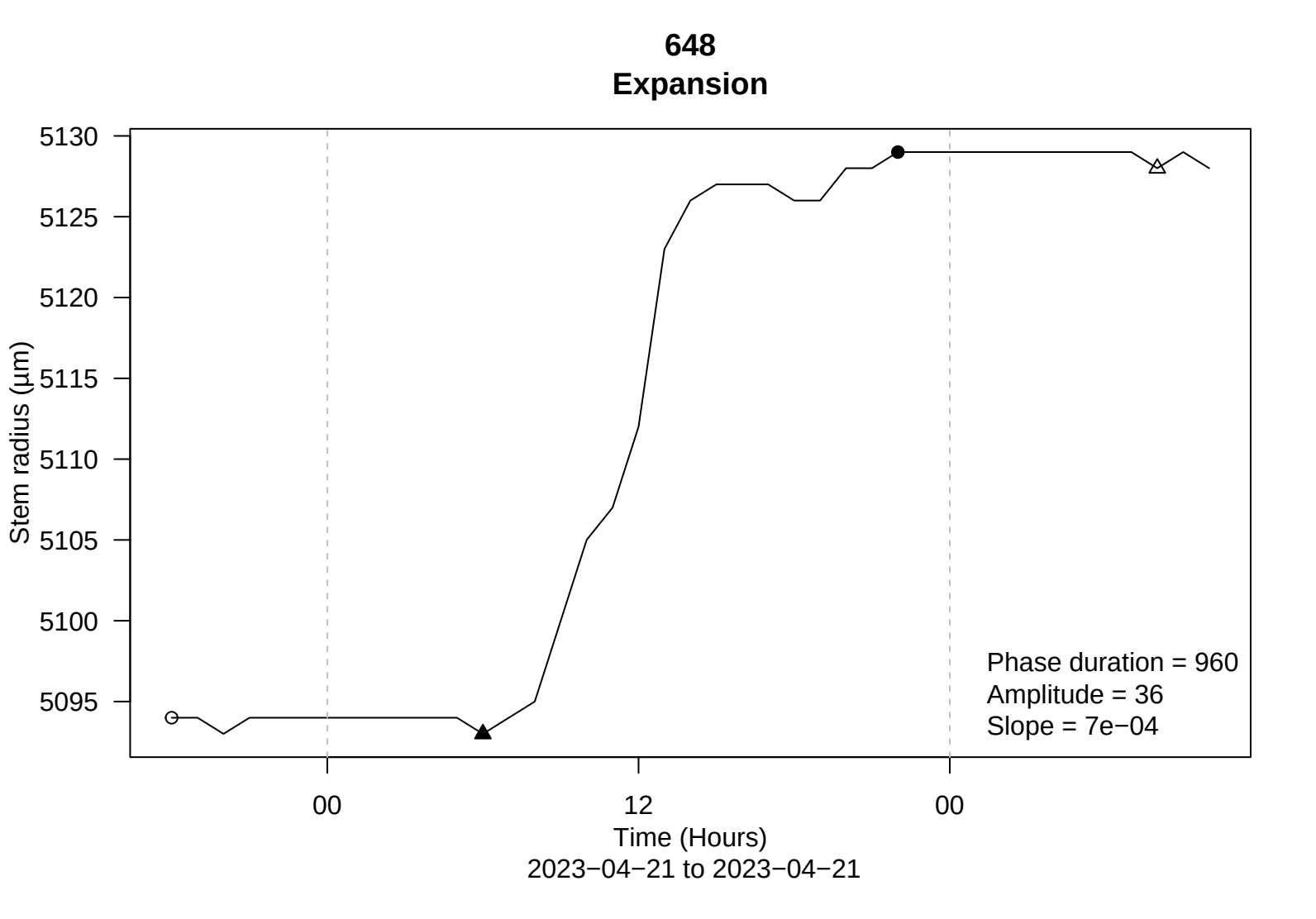

648
Shrinkage
4960
4940
4920
4900
4880
4860
Stem radius (µm)
Phase duration = 480
Amplitude = −111
Slope = −0.0047
00
12
00
Time (Hours)
2023−04−14 to 2023−04−14

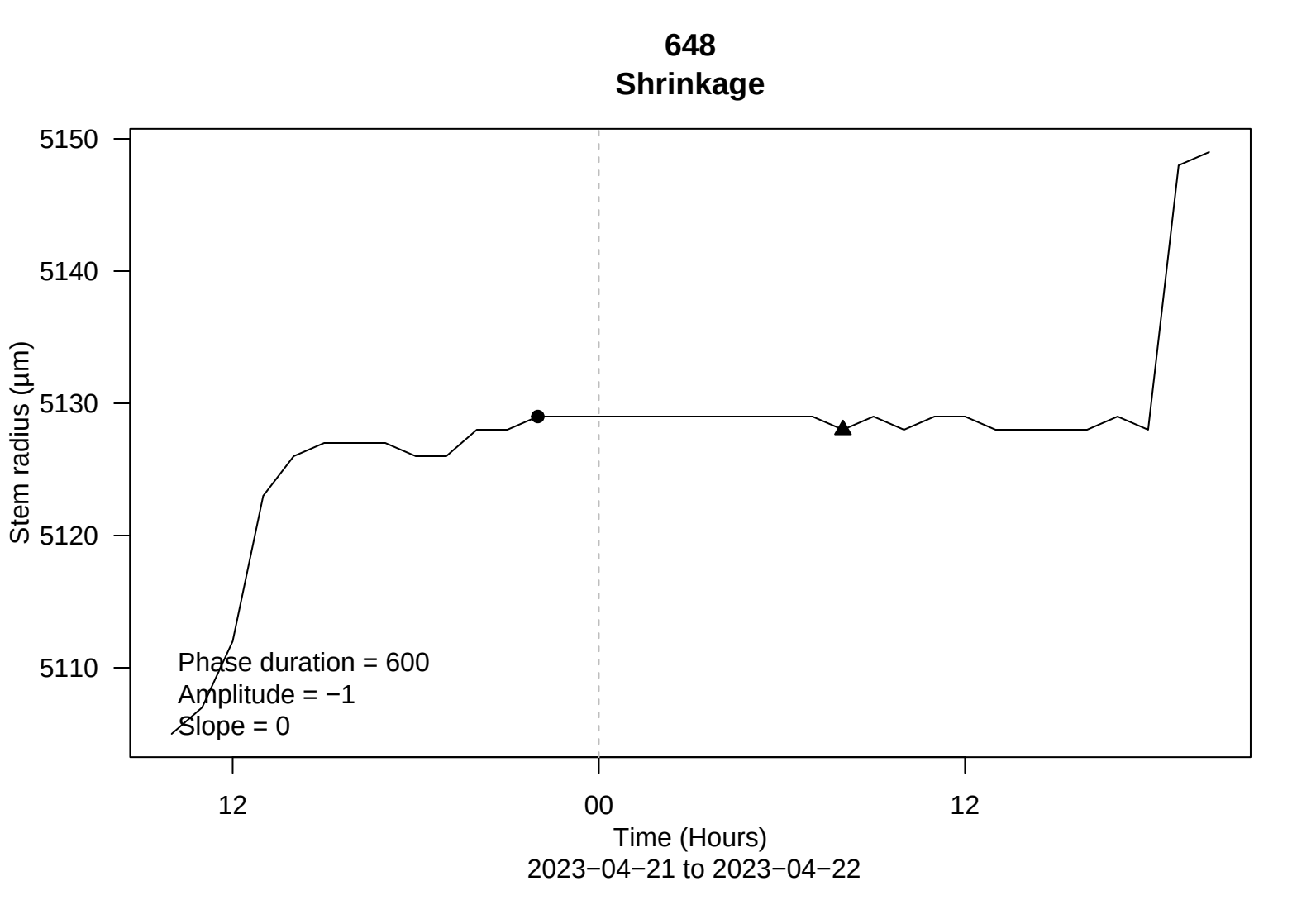

648
Expansion
4960
4940
4920
4900
4880
4860
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−14 to 2023−04−15
Phase duration = 900
Amplitude = 111
Slope = 0.0023

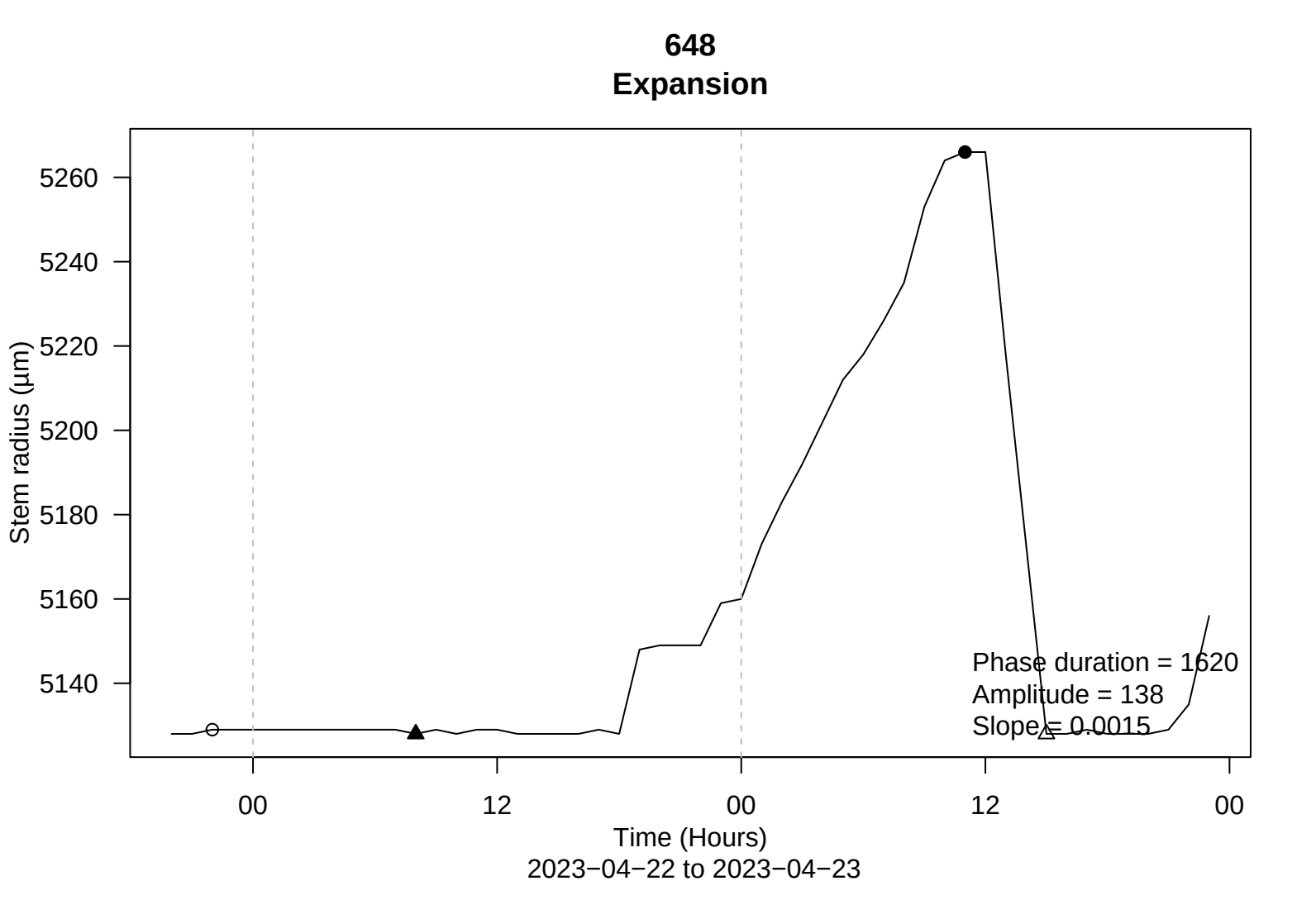

648
Shrinkage
Stem radius (µm)
4960
4940
4920
4900
4880
Phase duration = 420
Amplitude = −101
Slope = −0.0048
00
06
12
18
00
Time (Hours)
2023−04−15 to 2023−04−15

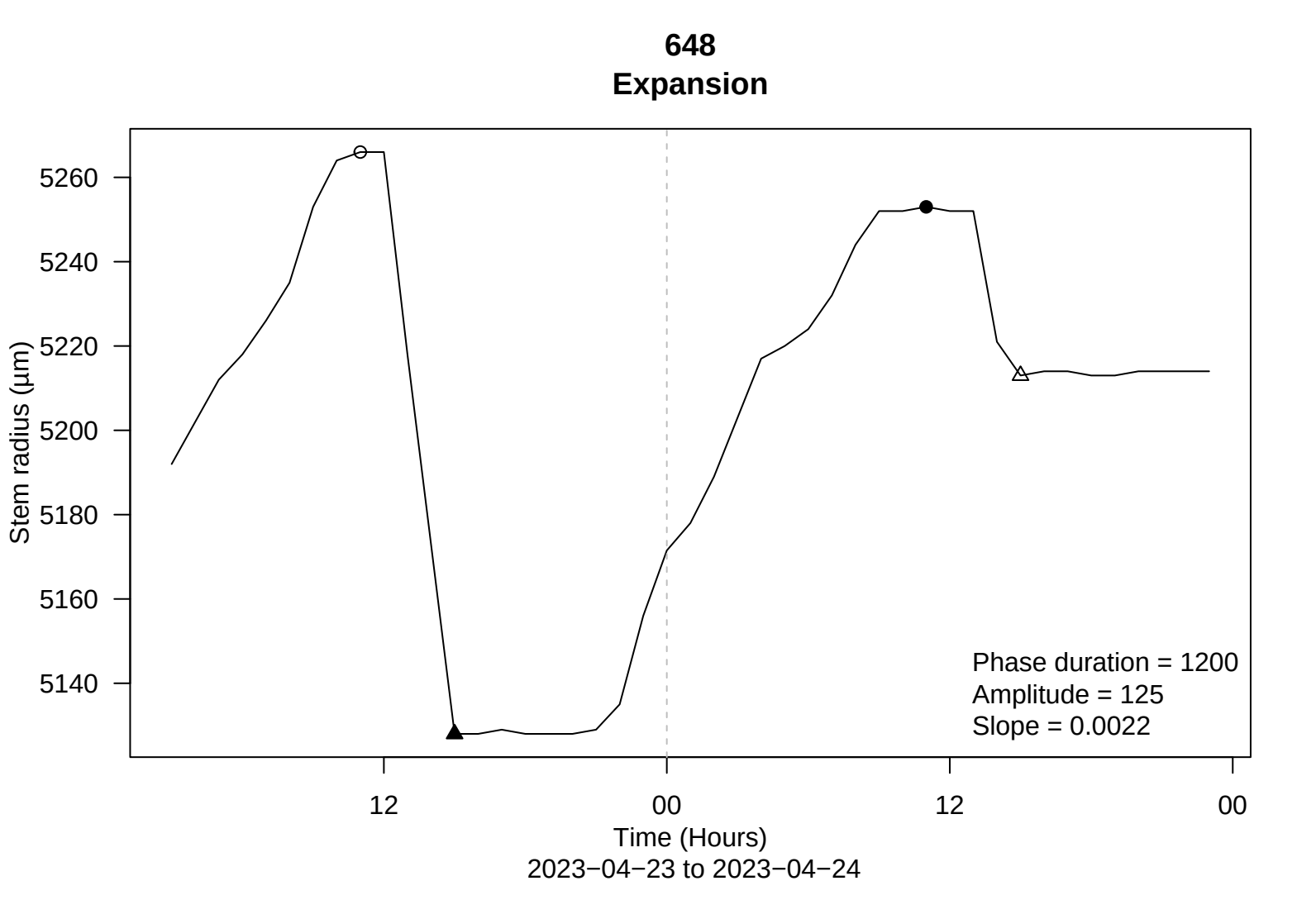

648
Expansion
5050
5000
4950
4900
Stem radius (µm)
Phase duration = 3300
Amplitude = 201
Slope = 0.0011
00
00
00
00
Time (Hours)
2023−04−15 to 2023−04−17

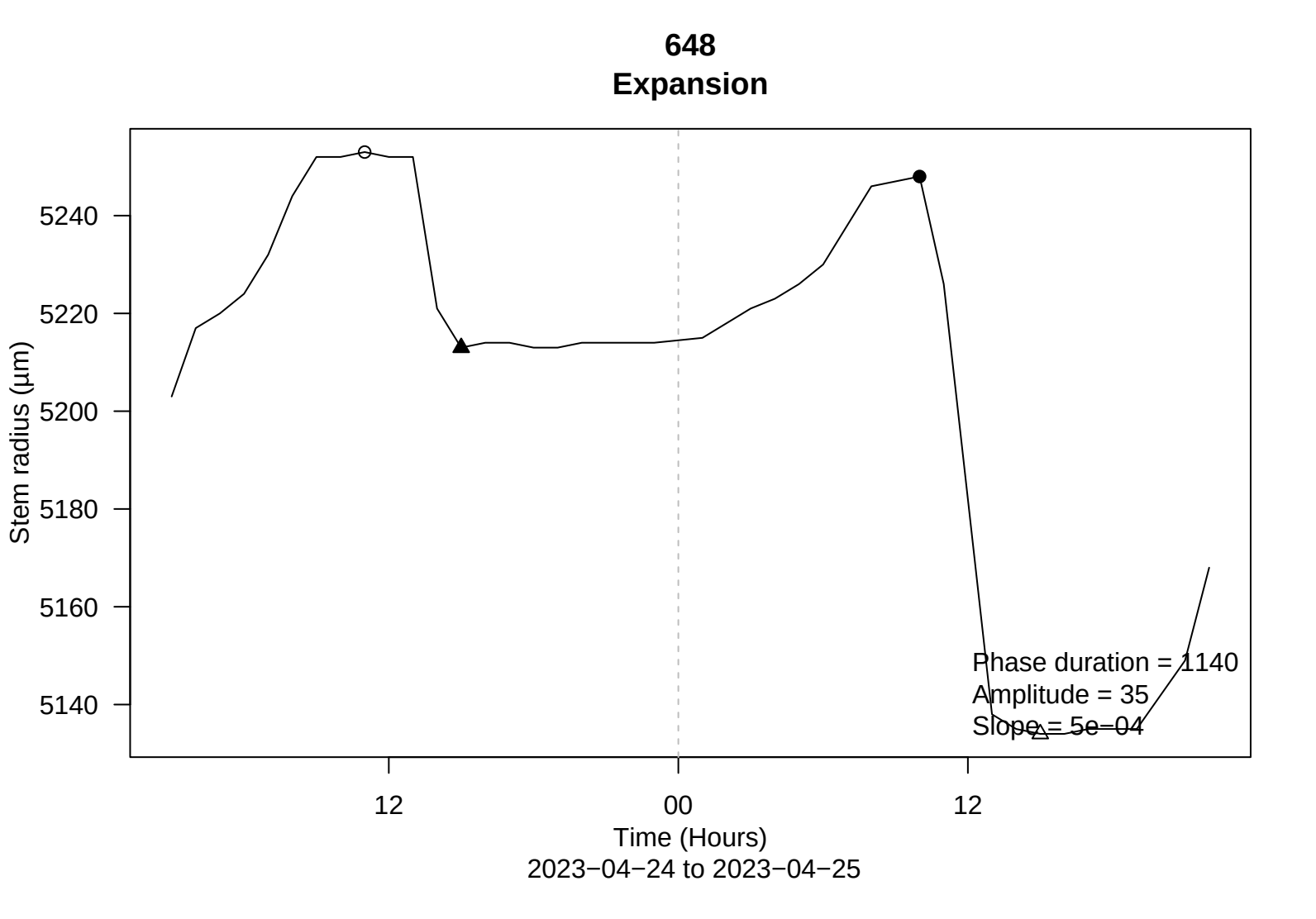

648
Expansion
5090
5085
5080
5075
Stem radius (µm)
Phase duration = 3000
Amplitude = 23
Slope = 1e−04
00
00
00
Time (Hours)
2023−04−18 to 2023−04−20

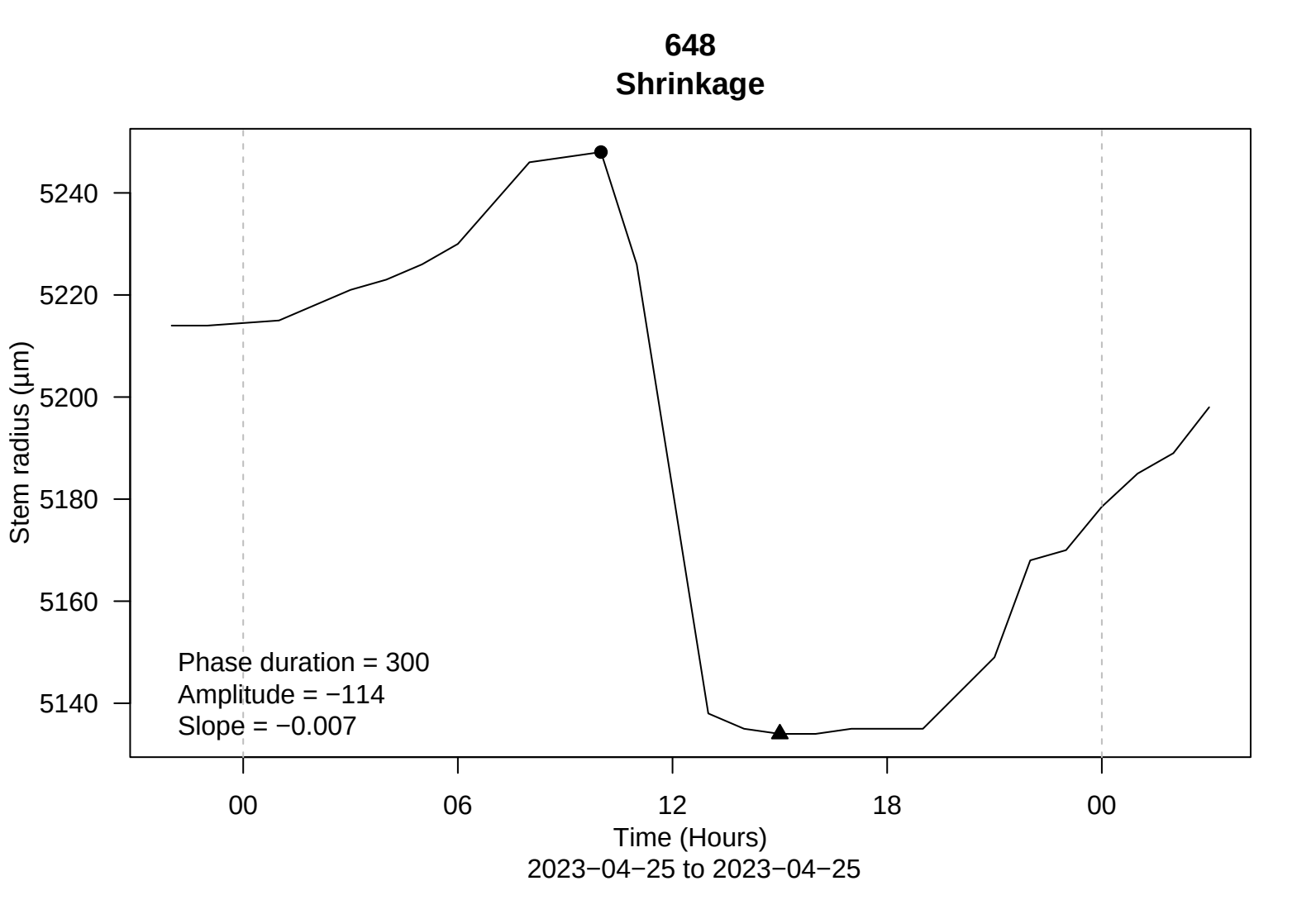

648
Expansion
5130
5125
5120
5115
5110
5105
5100
5095
Stem radius (µm)
Phase duration = 960
Amplitude = 36
Slope = 7e−04
00
12
00
Time (Hours)
2023−04−21 to 2023−04−21

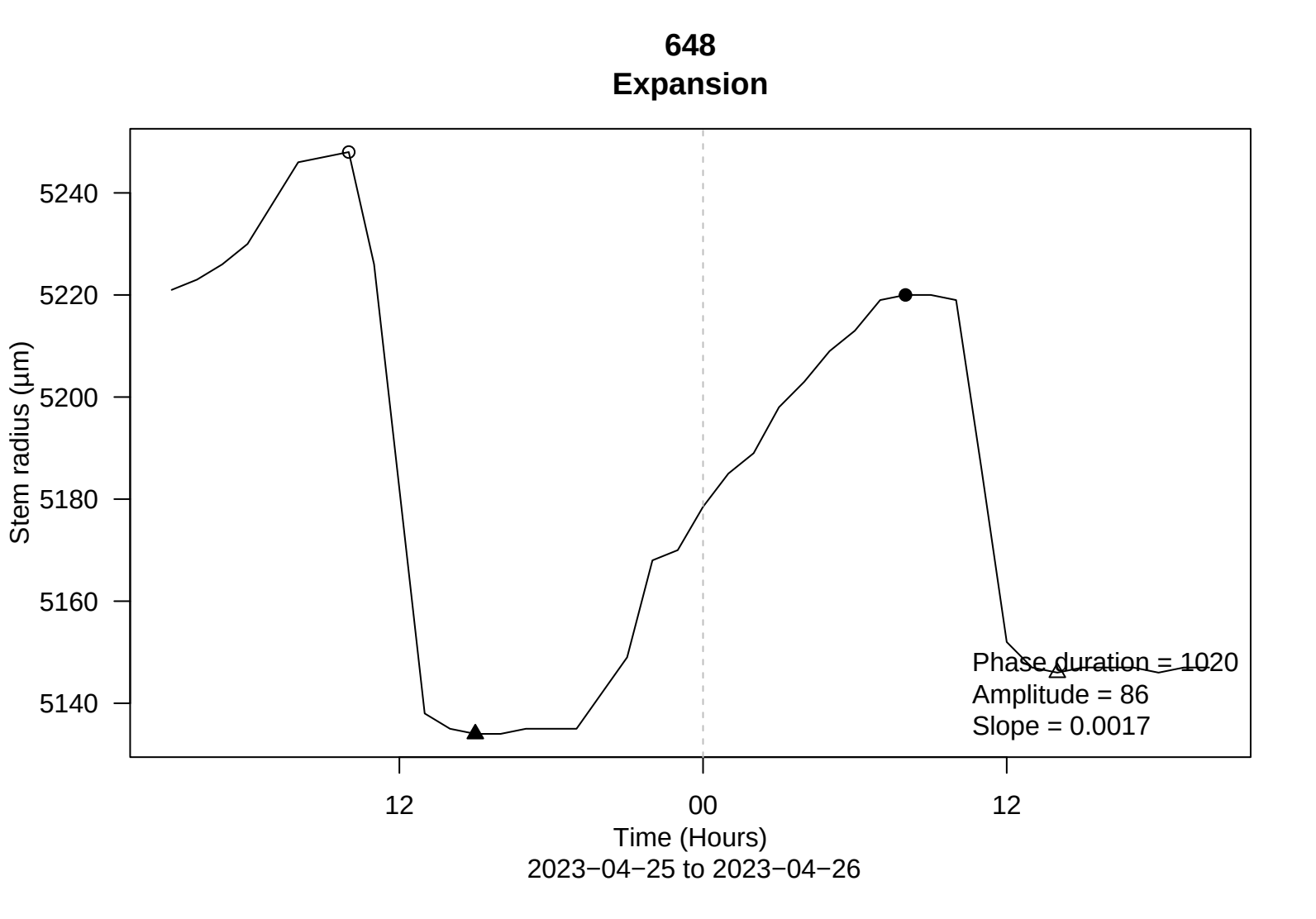

648
Shrinkage
5150
5140
5130
5120
5110
Stem radius (µm)
Phase duration = 600
Amplitude = −1
Slope = 0
12
00
12
Time (Hours)
2023−04−21 to 2023−04−22

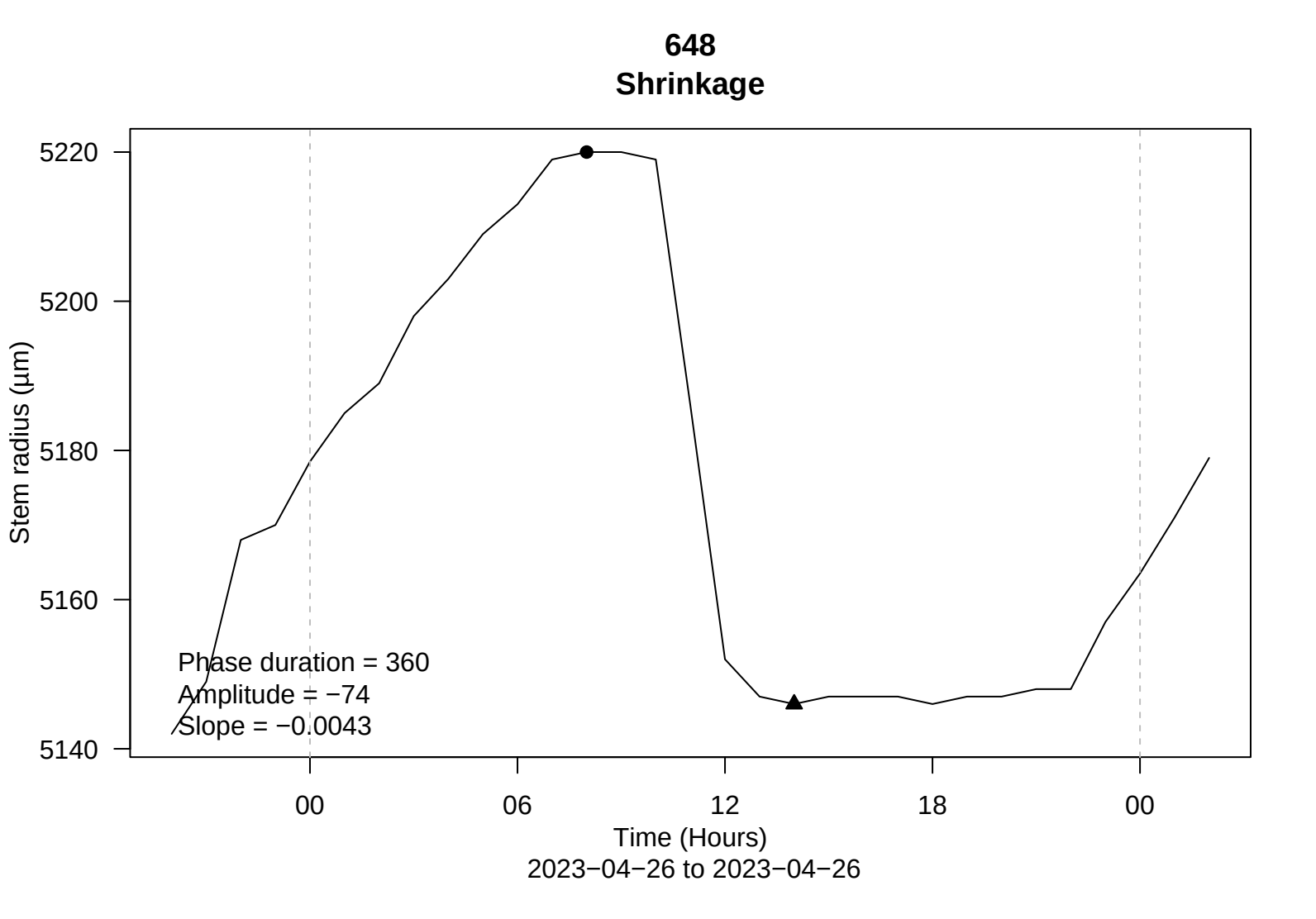

648
Expansion
Stem radius (µm)
5260
5240
5220
5200
5180
5160
5140
Phase duration = 1620
Amplitude = 138
Slope = 0.0015
00
12
00
12
00
Time (Hours)
2023−04−22 to 2023−04−23

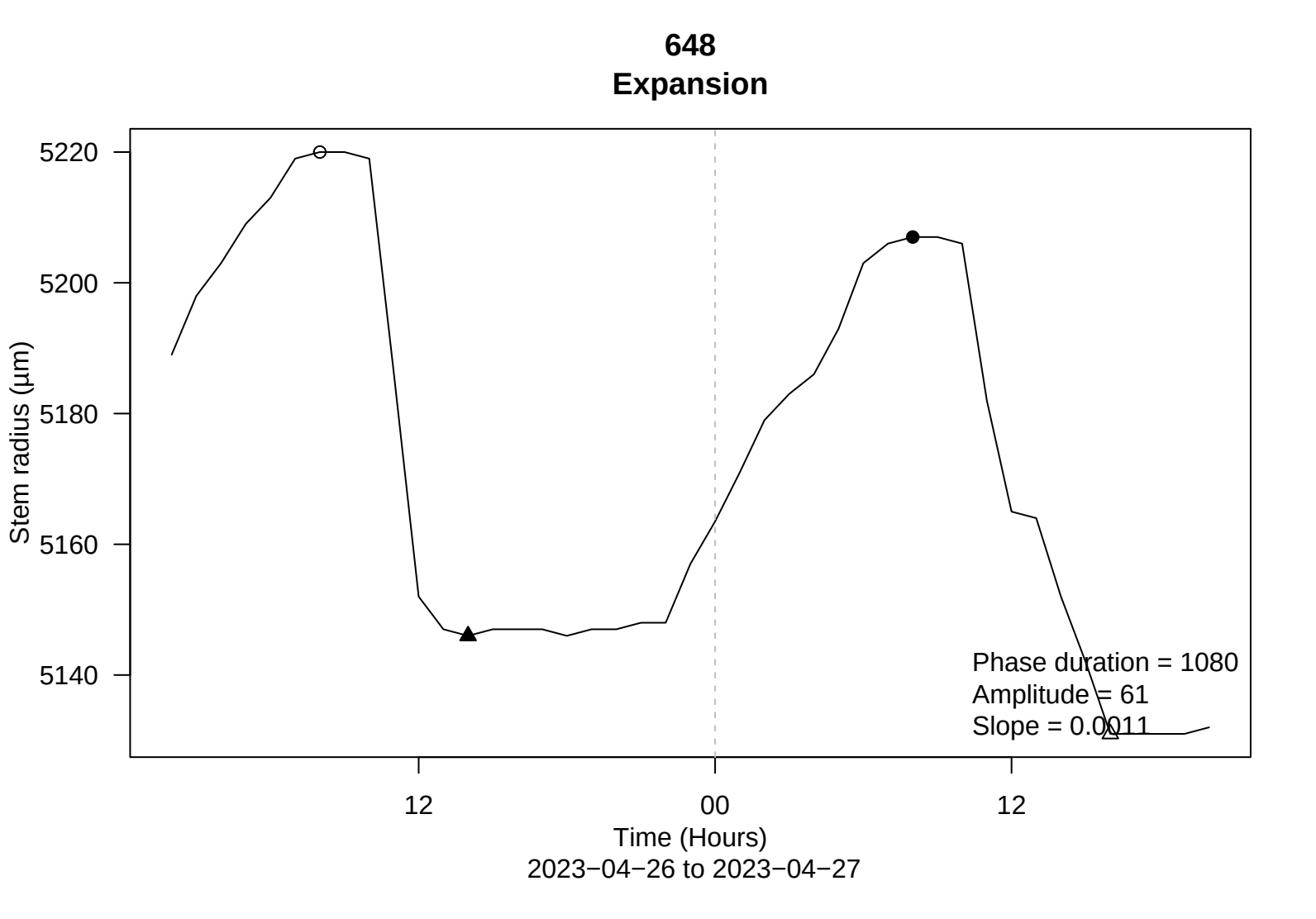

648
Expansion
Stem radius (µm)
5260
5240
5220
5200
5180
5160
5140
Phase duration = 1200
Amplitude = 125
Slope = 0.0022
12
00
12
00
Time (Hours)
2023−04−23 to 2023−04−24

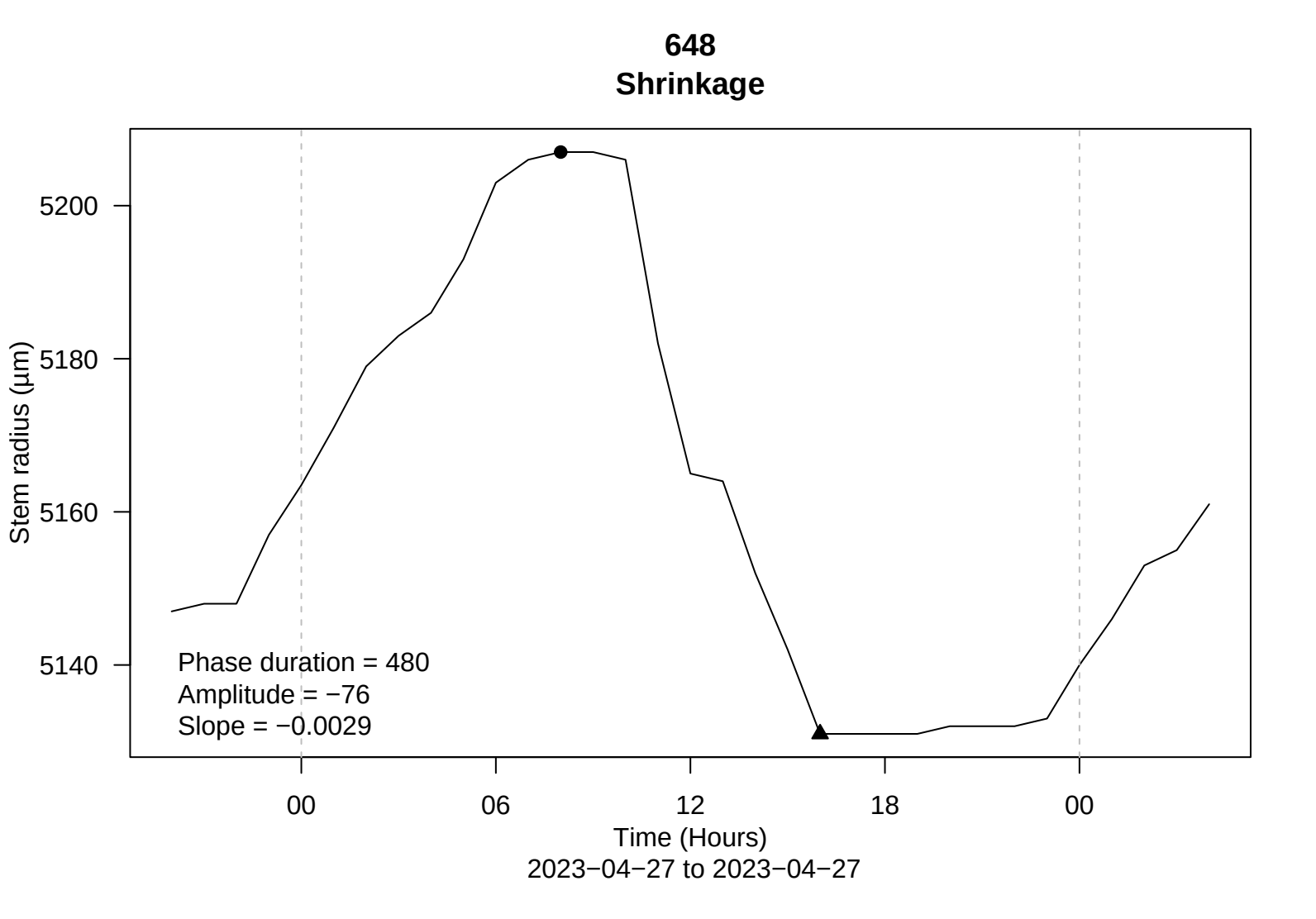

648
Expansion
5240
5220
5200
5180
5160
5140
Stem radius (µm)
Phase duration = 1140
Amplitude = 35
Slope = 5e−04
12
00
12
Time (Hours)
2023−04−24 to 2023−04−25

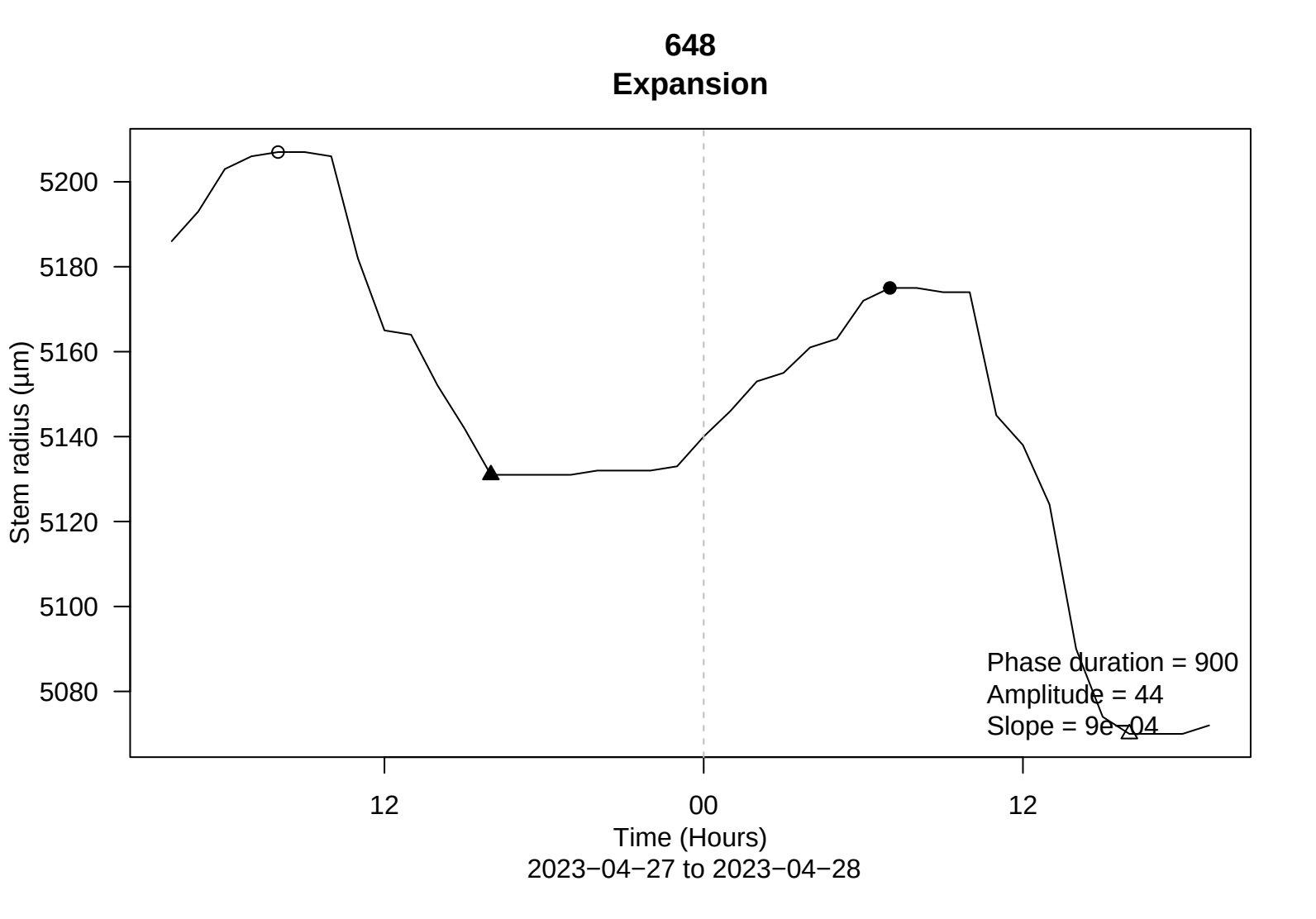

648
Shrinkage
5240
5220
5200
5180
5160
5140
Stem radius (µm)
Phase duration = 300
Amplitude = −114
Slope = −0.007
00
06
12
18
00
Time (Hours)
2023−04−25 to 2023−04−25

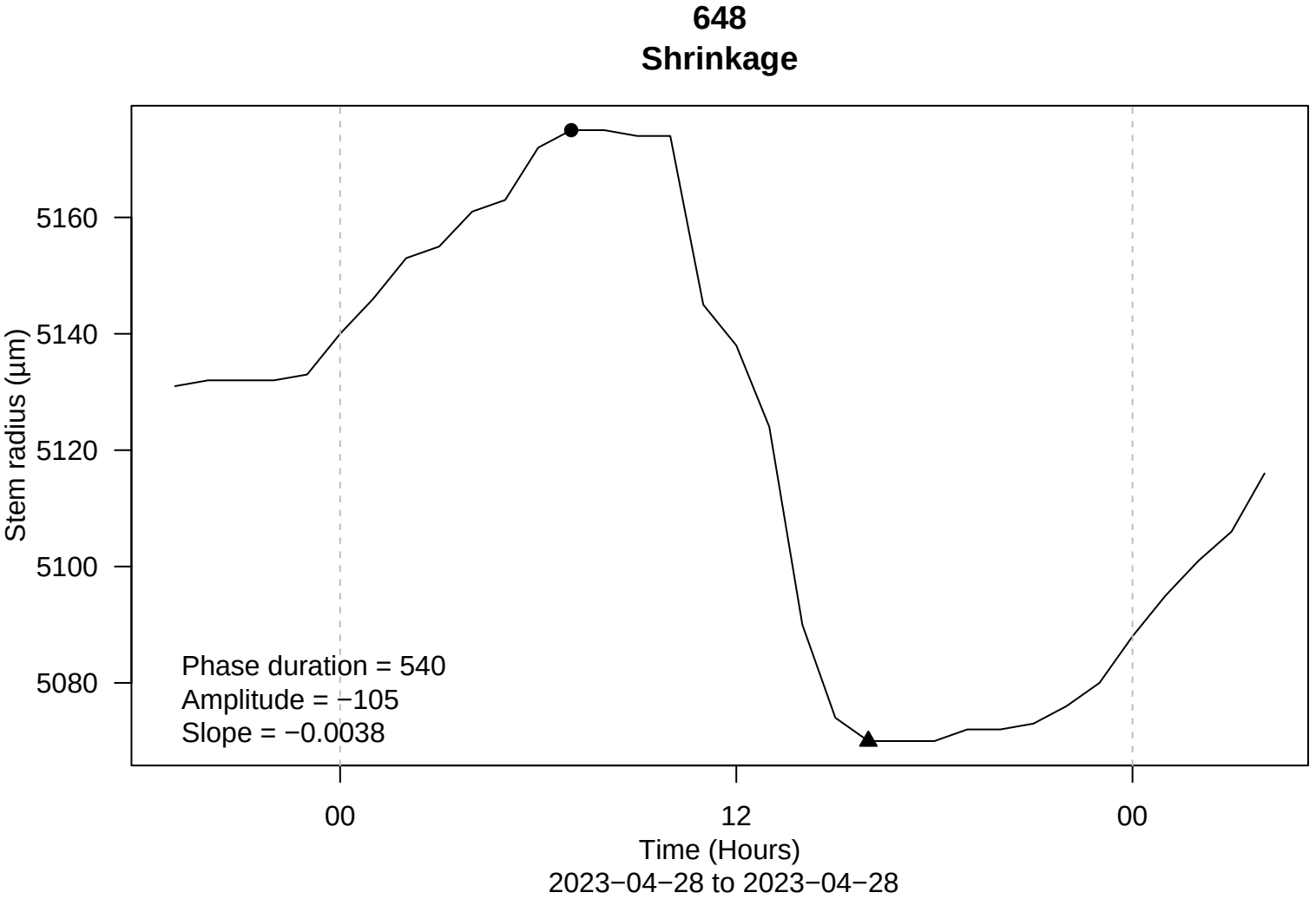

648
Expansion
5240
5220
5200
5180
5160
5140
Stem radius (µm)
Phase duration = 1020
Amplitude = 86
Slope = 0.0017
12
00
12
Time (Hours)
2023−04−25 to 2023−04−26

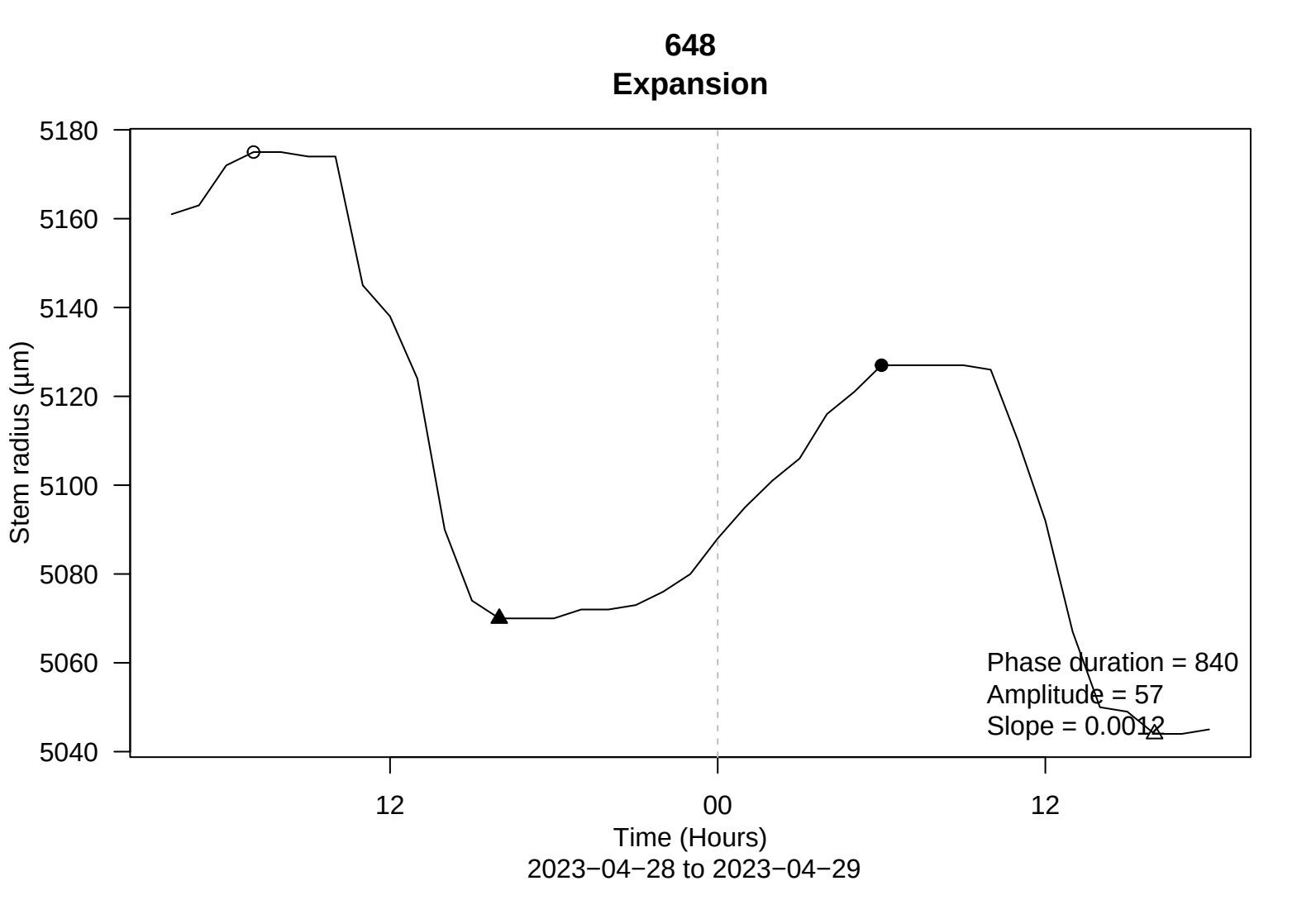

648
Shrinkage
5220
5200
5180
5160
5140
Stem radius (µm)
Phase duration = 360
Amplitude = −74
Slope = −0.0043
00
06
12
18
00
Time (Hours)
2023−04−26 to 2023−04−26

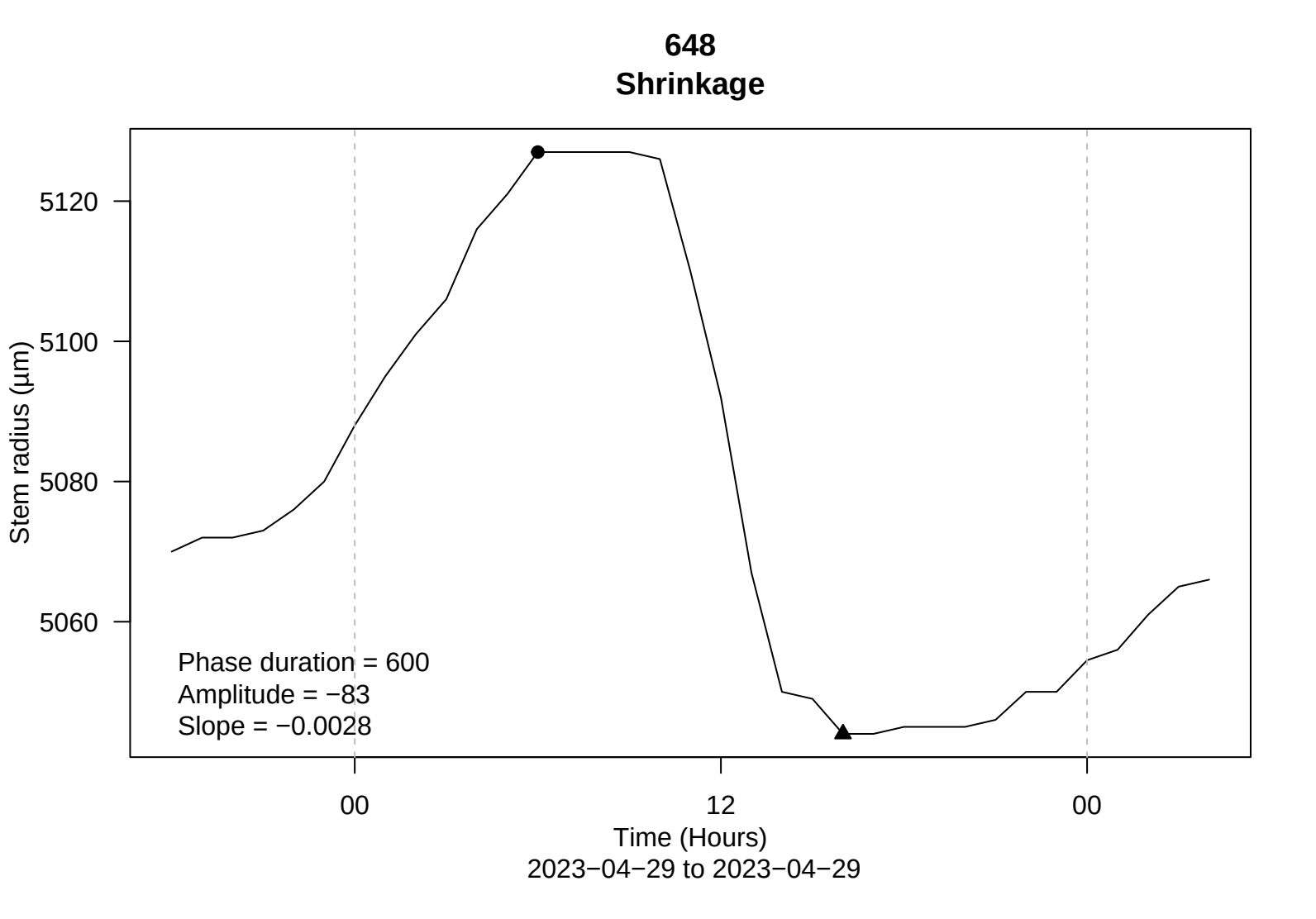

648
Expansion
5220
5200
5180
5160
5140
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−26 to 2023−04−27
Phase duration = 1080
Amplitude = 61
Slope = 0.0011

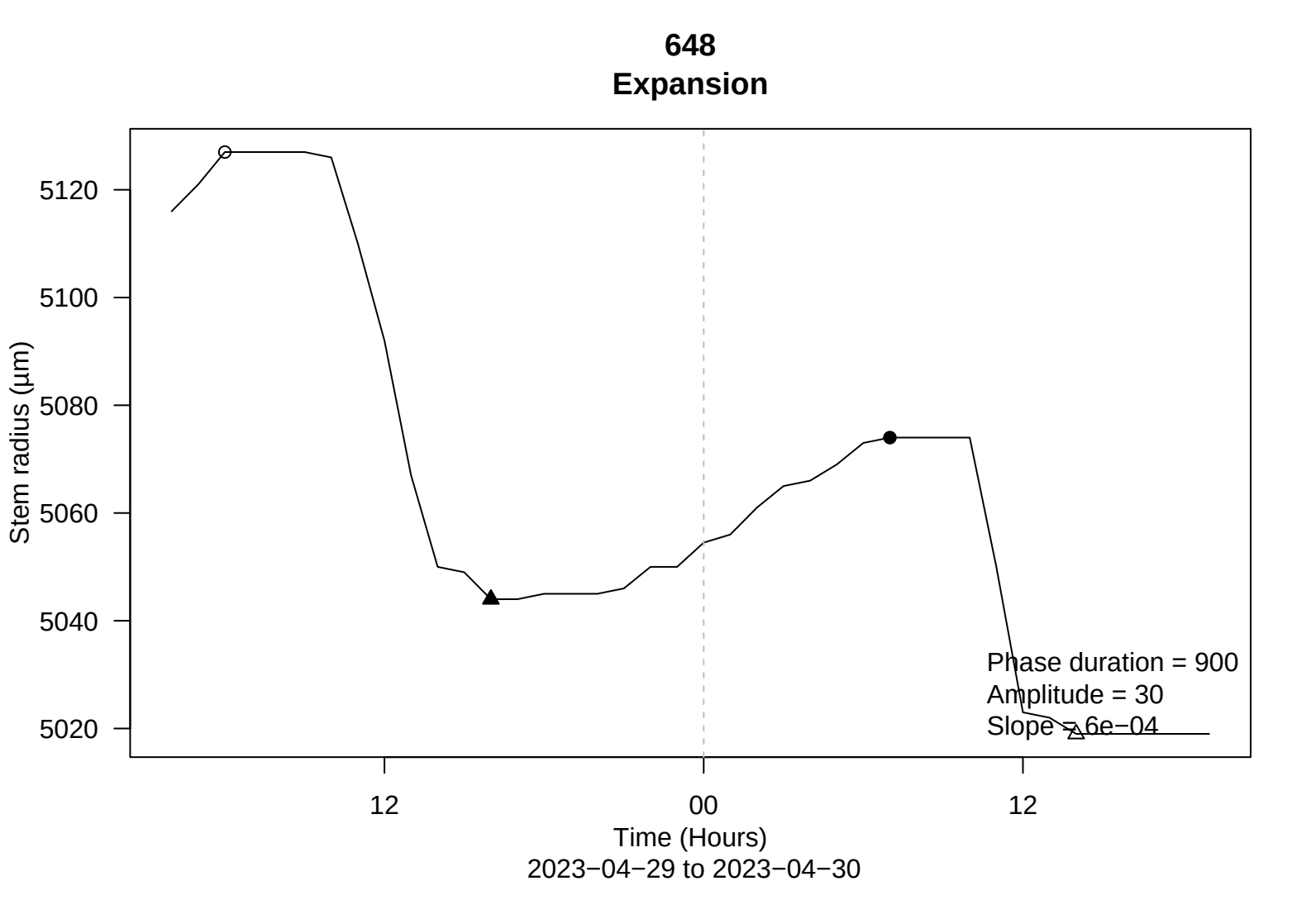

648
Shrinkage
5200
5180
5160
5140
Stem radius (µm)
Phase duration = 480
Amplitude = −76
Slope = −0.0029
00
06
12
18
00
Time (Hours)
2023−04−27 to 2023−04−27

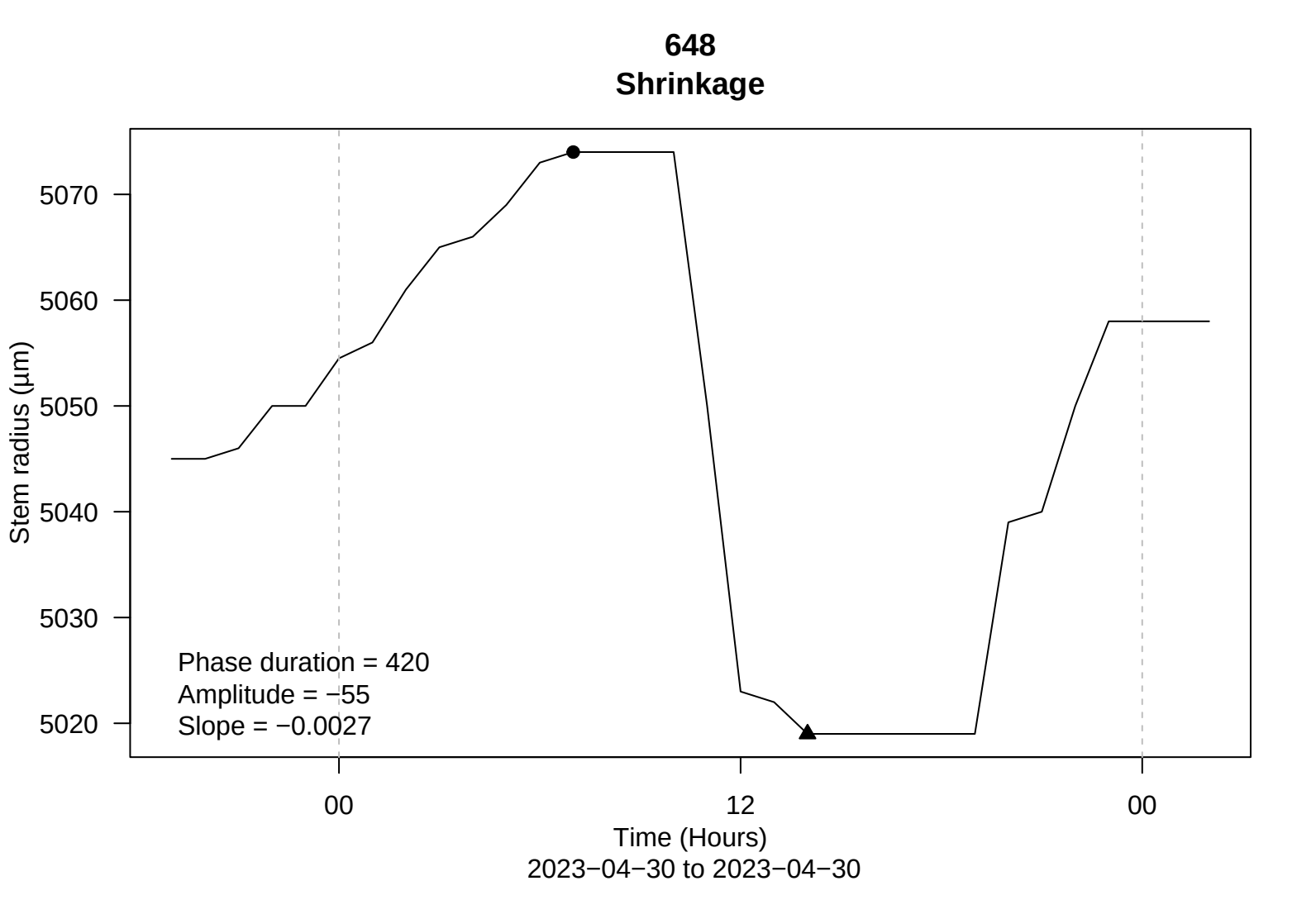

648
Expansion
5200
5180
5160
5140
5120
5100
5080
Stem radius (µm)
Phase duration = 900
Amplitude = 44
Slope = 9e−04
12
00
12
Time (Hours)
2023−04−27 to 2023−04−28

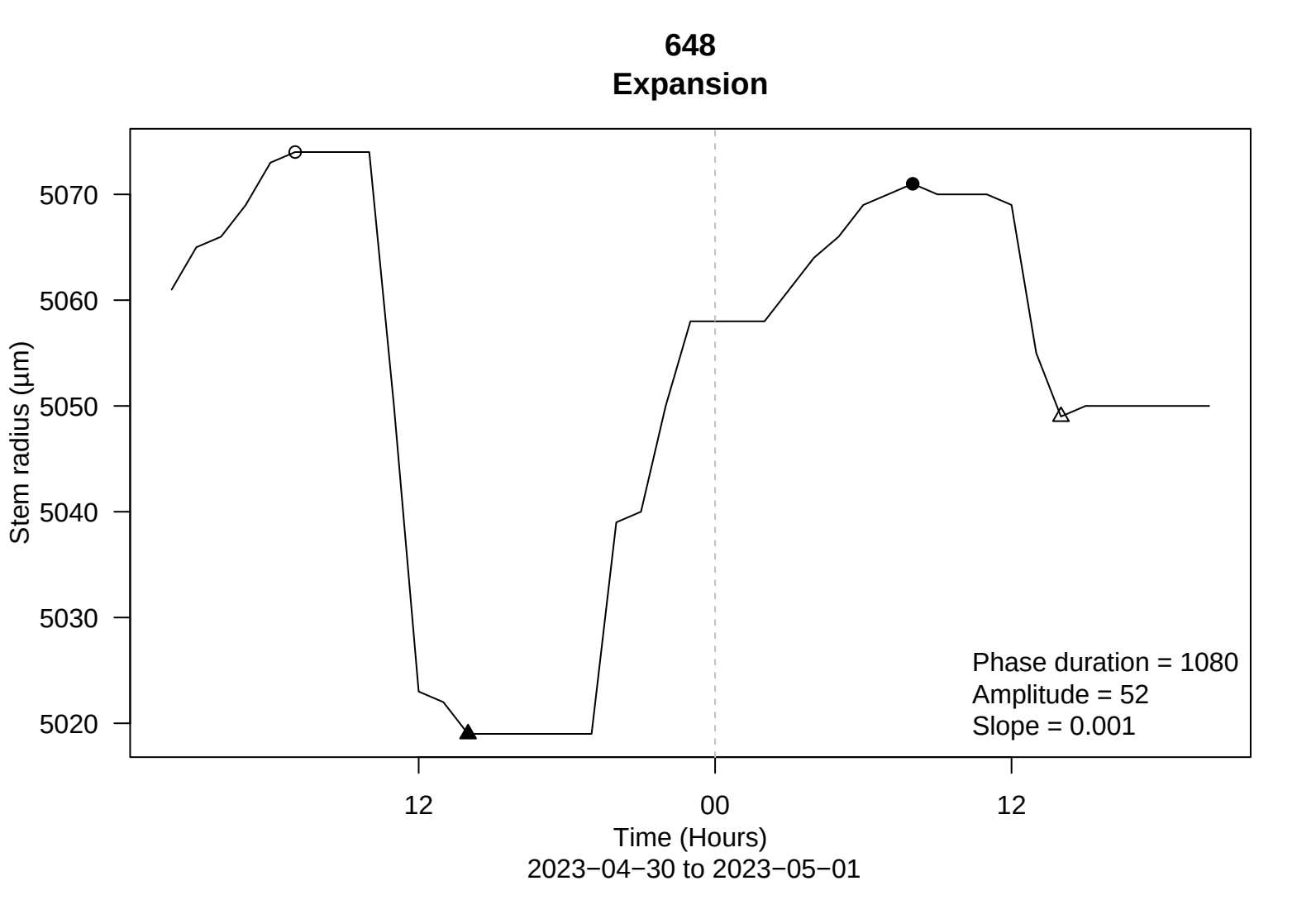

648
Shrinkage
Stem radius (µm)
5160
5140
5120
5100
5080
Phase duration = 540
Amplitude = −105
Slope = −0.0038
00
12
00
Time (Hours)
2023−04−28 to 2023−04−28

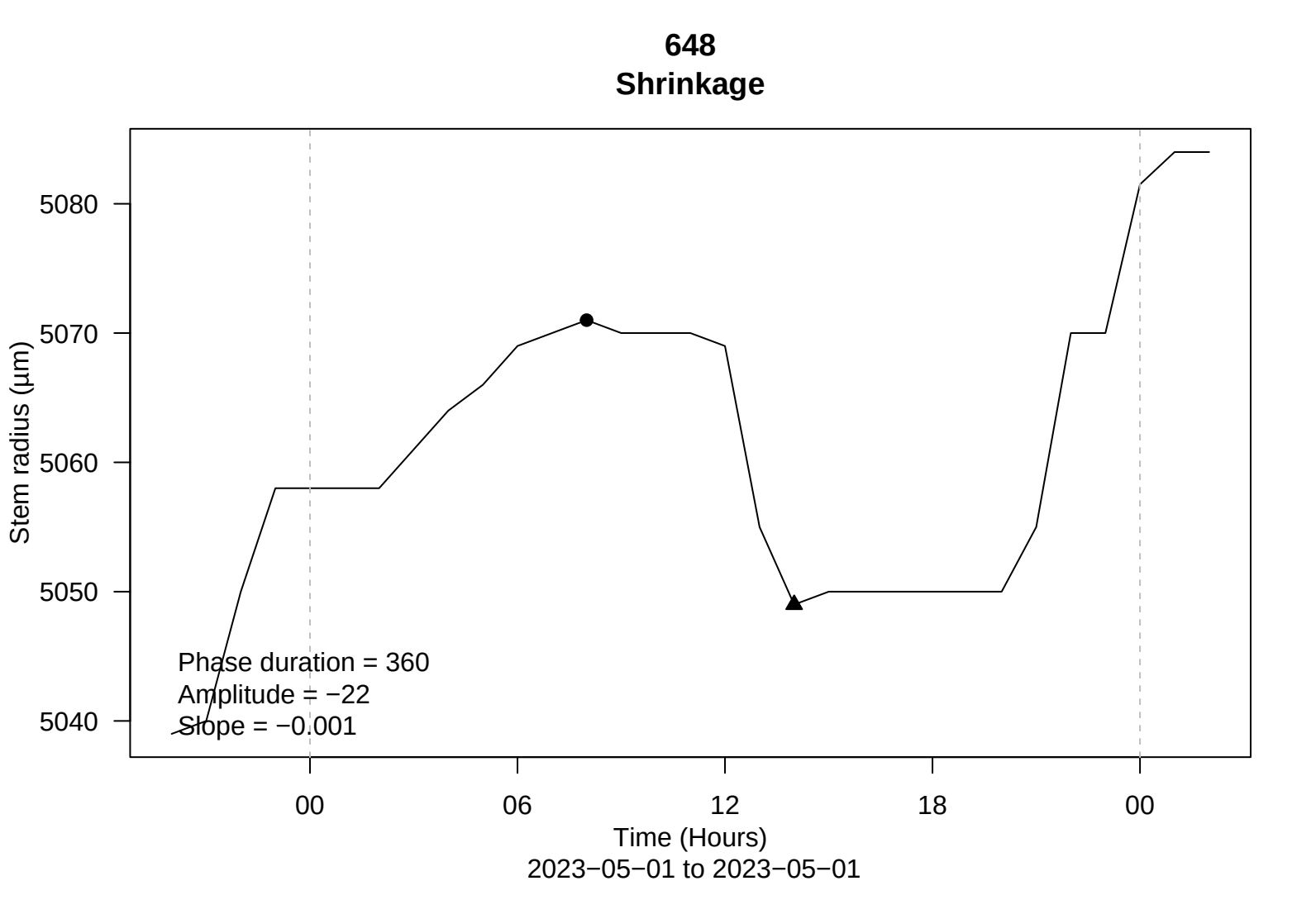

648
Expansion
5180
5160
5140
5120
5100
5080
5060
5040
Stem radius (µm)
12
00
12
Time (Hours)
2023−04−28 to 2023−04−29
Phase duration = 840
Amplitude = 57
Slope = 0.0012

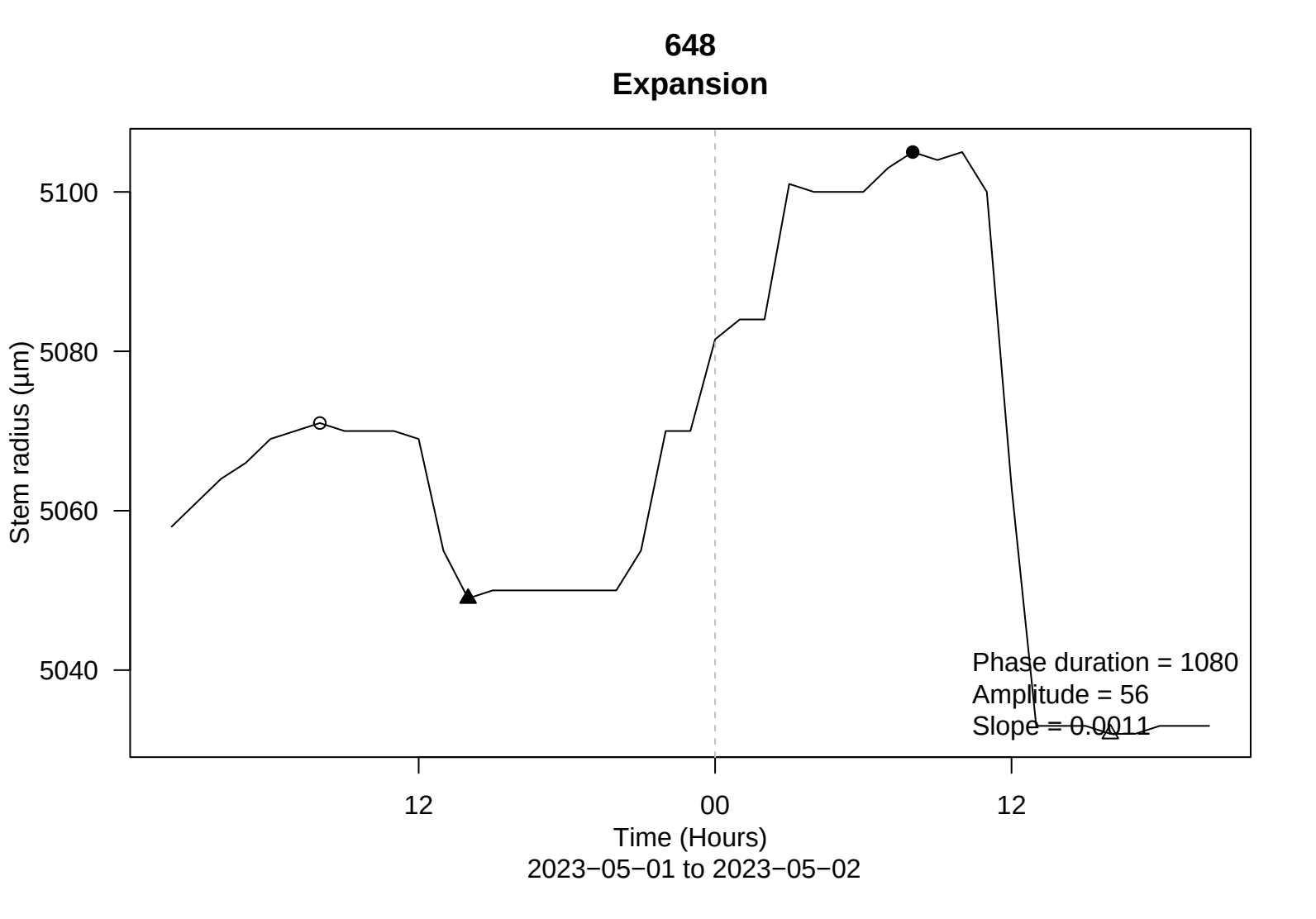

648
Shrinkage
5120
5100
5080
5060
Stem radius (µm)
Phase duration = 600
Amplitude = −83
Slope = −0.0028
00
12
00
Time (Hours)
2023−04−29 to 2023−04−29

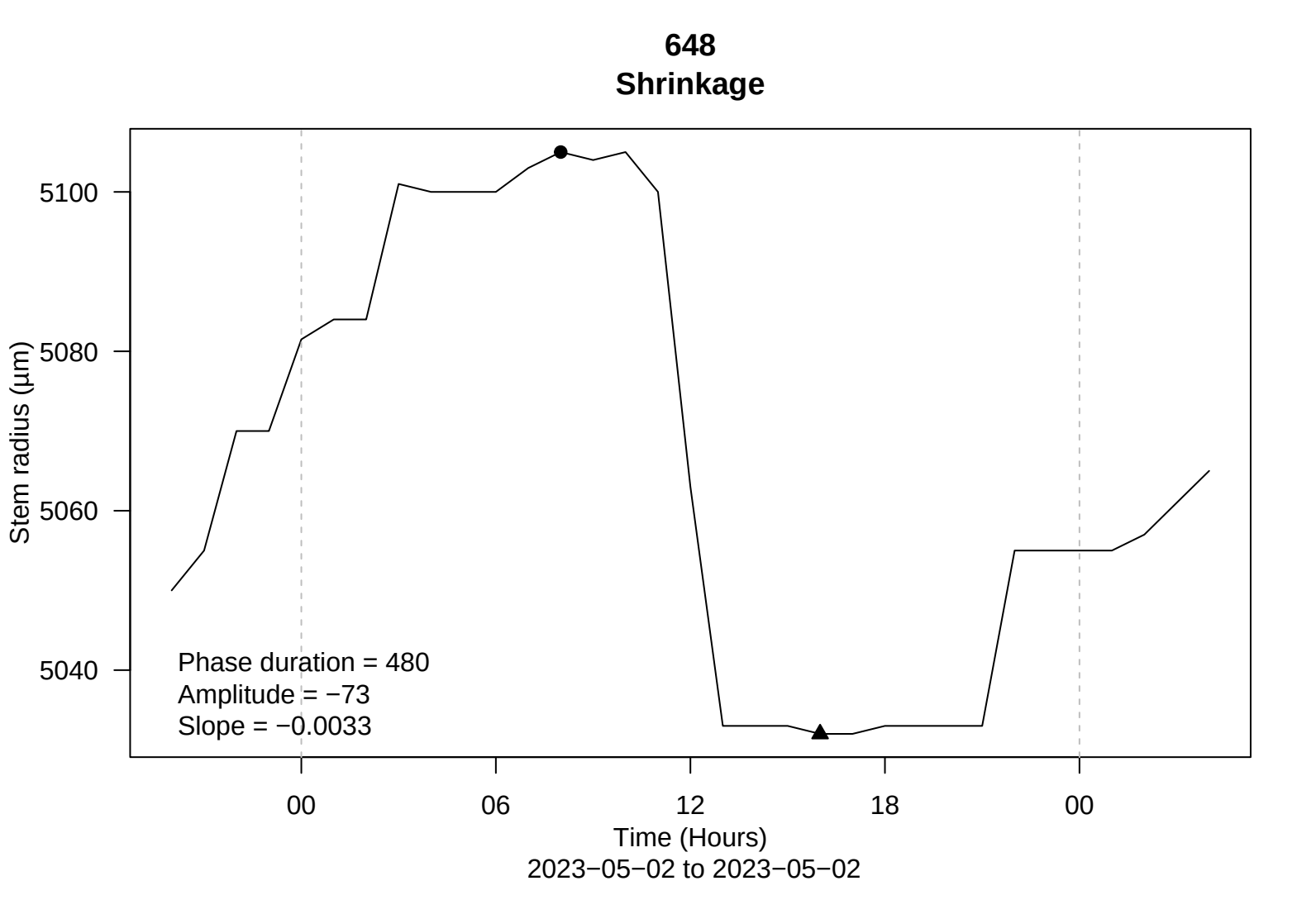

648
Expansion
5120
5100
5080
5060
5040
5020
Stem radius (µm)
Phase duration = 900
Amplitude = 30
Slope = 6e−04
12
00
12
Time (Hours)
2023−04−29 to 2023−04−30

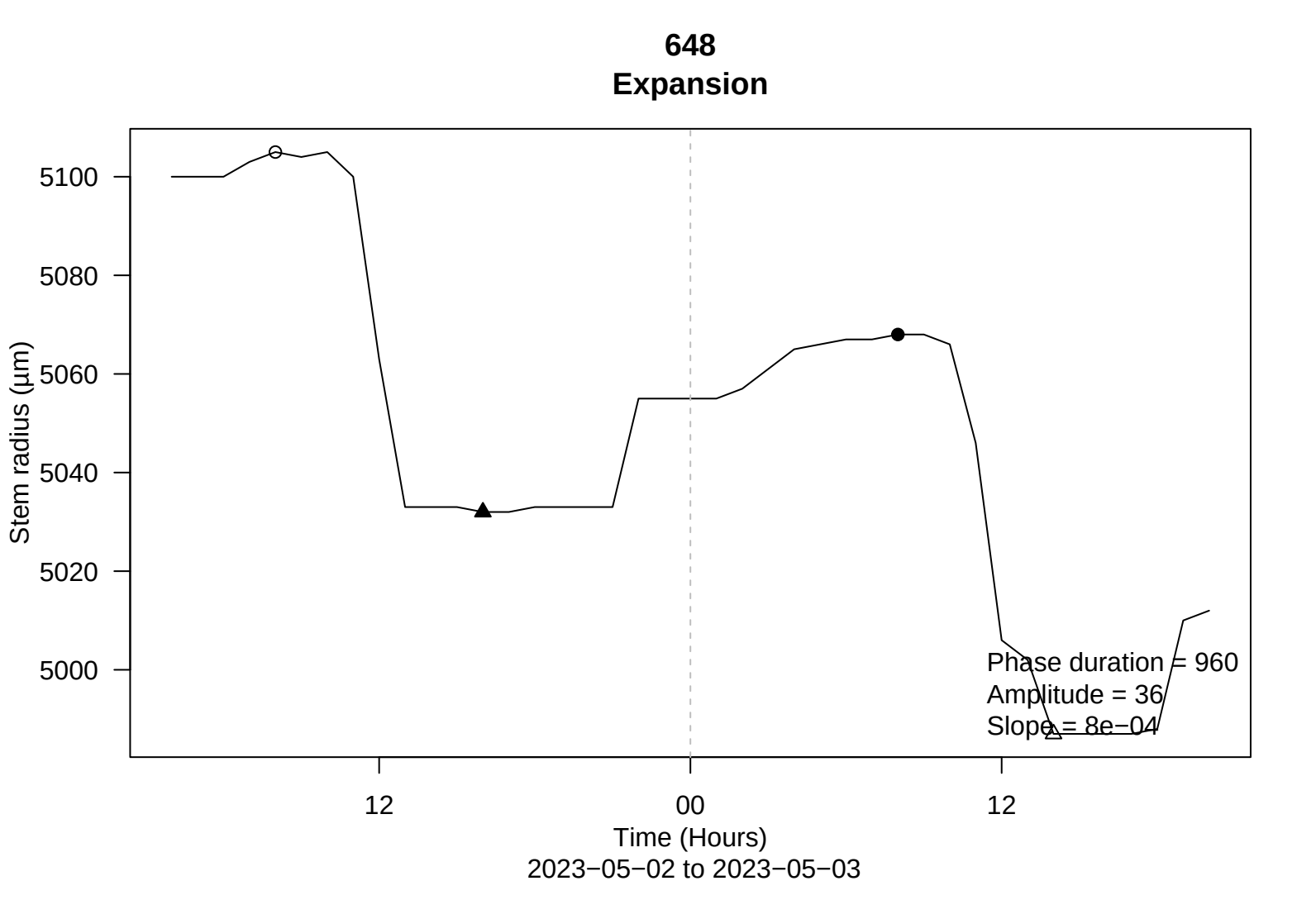

648
Shrinkage
5070
5060
5050
5040
5030
5020
Stem radius (µm)
Phase duration = 420
Amplitude = −55
Slope = −0.0027
00
12
00
Time (Hours)
2023−04−30 to 2023−04−30

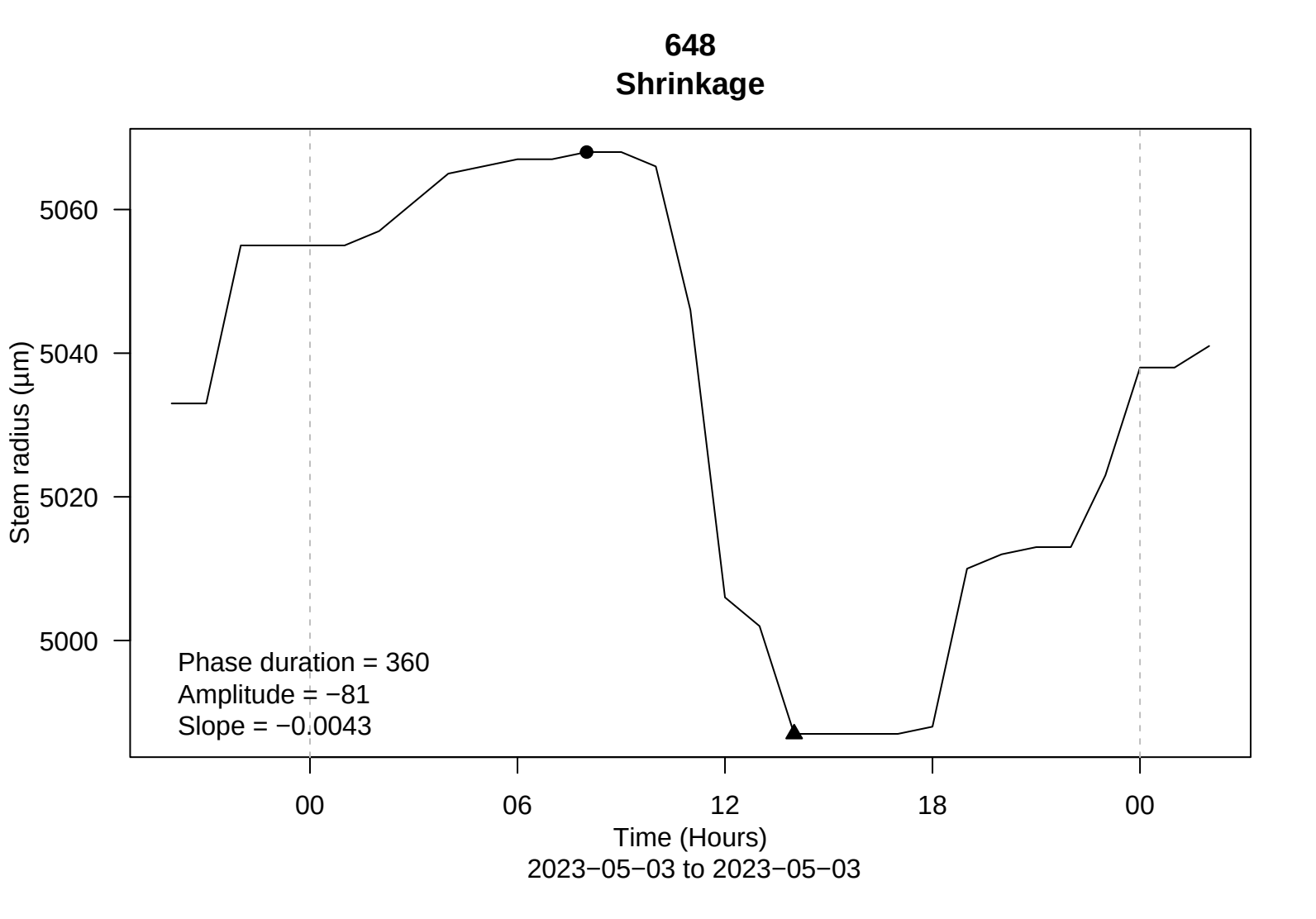

648
Expansion
5070
5060
5050
5040
5030
5020
Stem radius (µm)
Phase duration = 1080
Amplitude = 52
Slope = 0.001
12
00
12
Time (Hours)
2023−04−30 to 2023−05−01

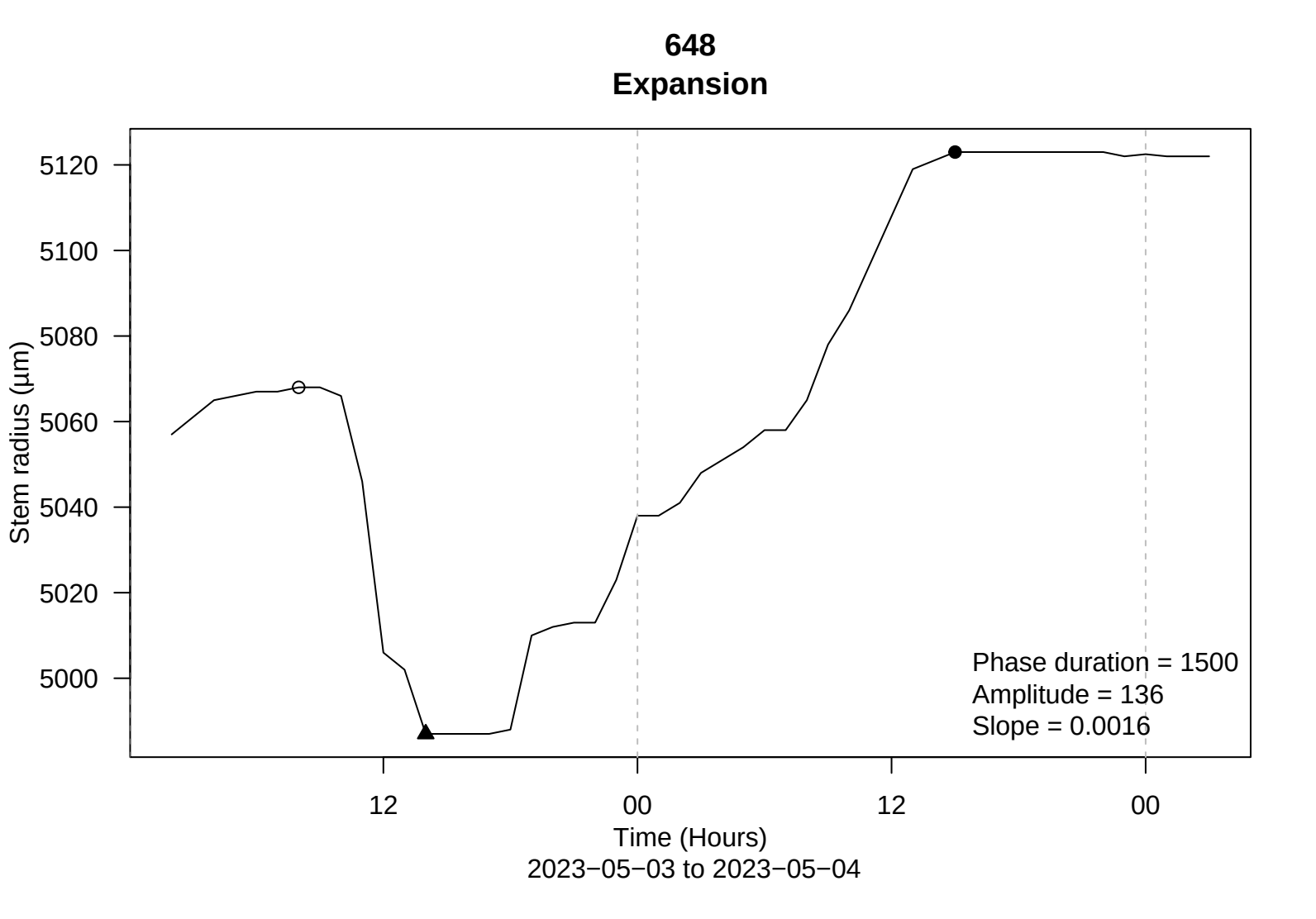

648
Shrinkage
Stem radius (µm)
5080
5070
5060
5050
5040
Phase duration = 360
Amplitude = −22
Slope = −0.001
00
06
12
18
00
Time (Hours)
2023−05−01 to 2023−05−01

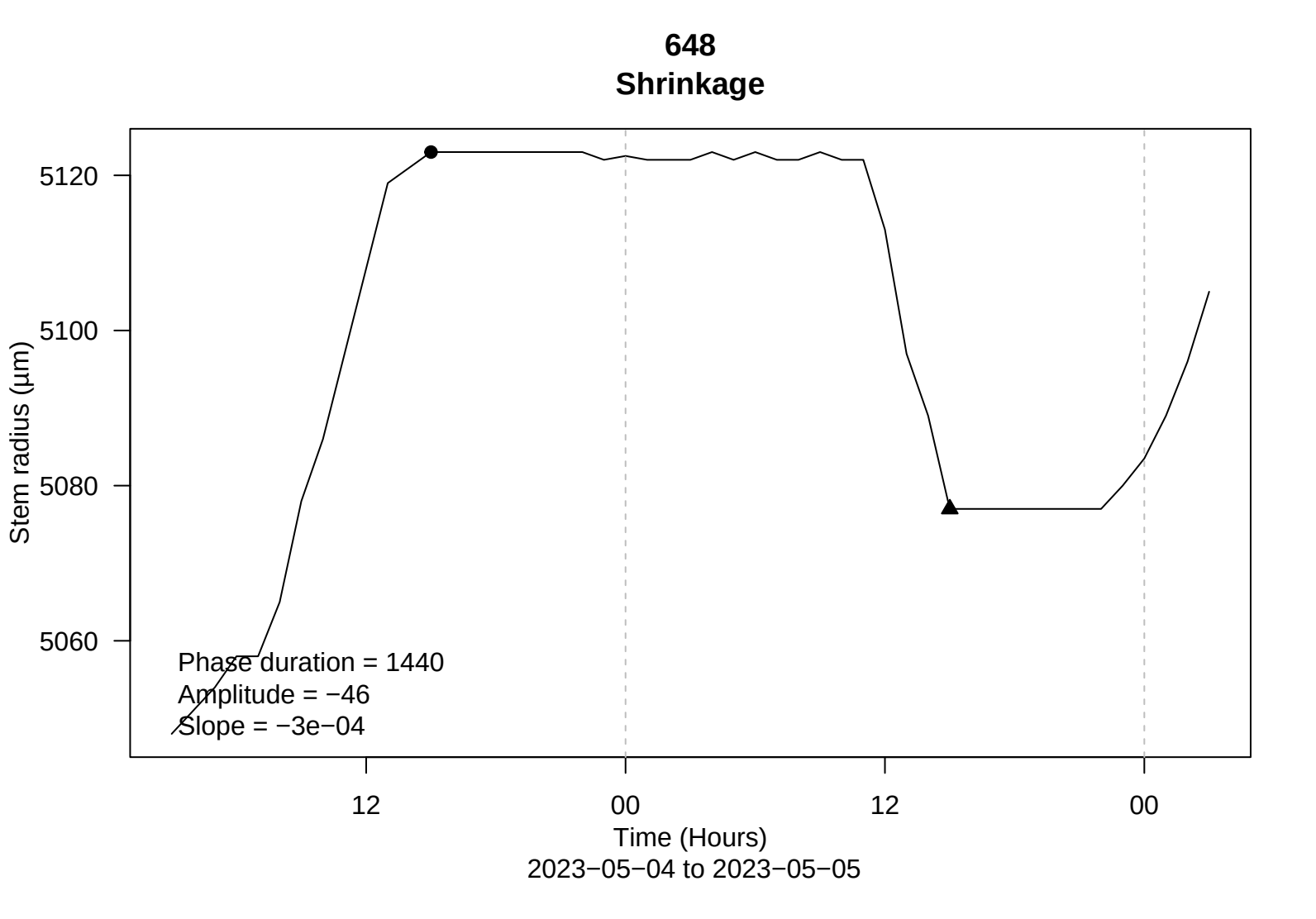

648
Expansion
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 1080
Amplitude = 56
Slope = 0.0011
12
00
12
Time (Hours)
2023−05−01 to 2023−05−02

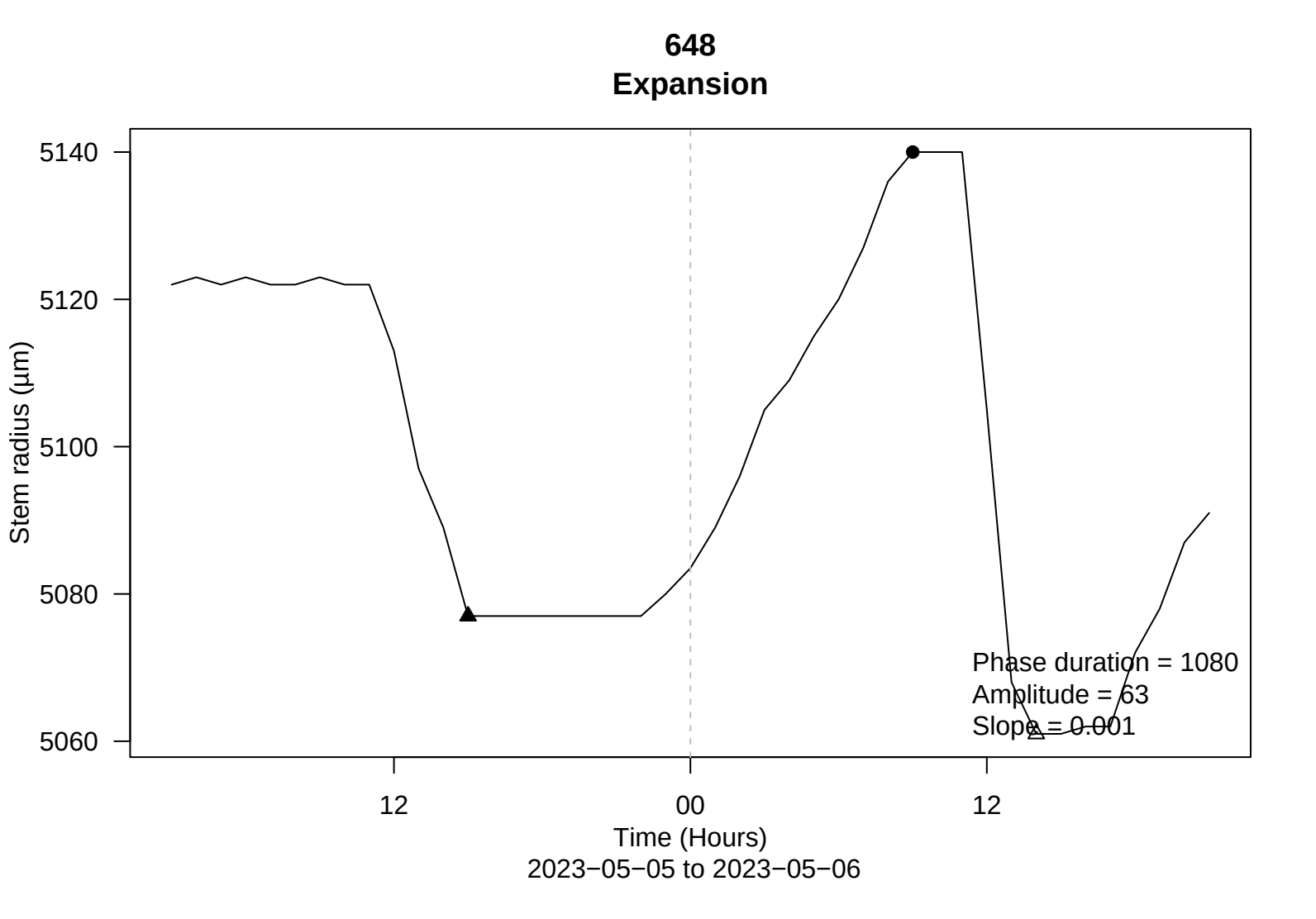

648
Shrinkage
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 480
Amplitude = −73
Slope = −0.0033
00
06
12
18
00
Time (Hours)
2023−05−02 to 2023−05−02

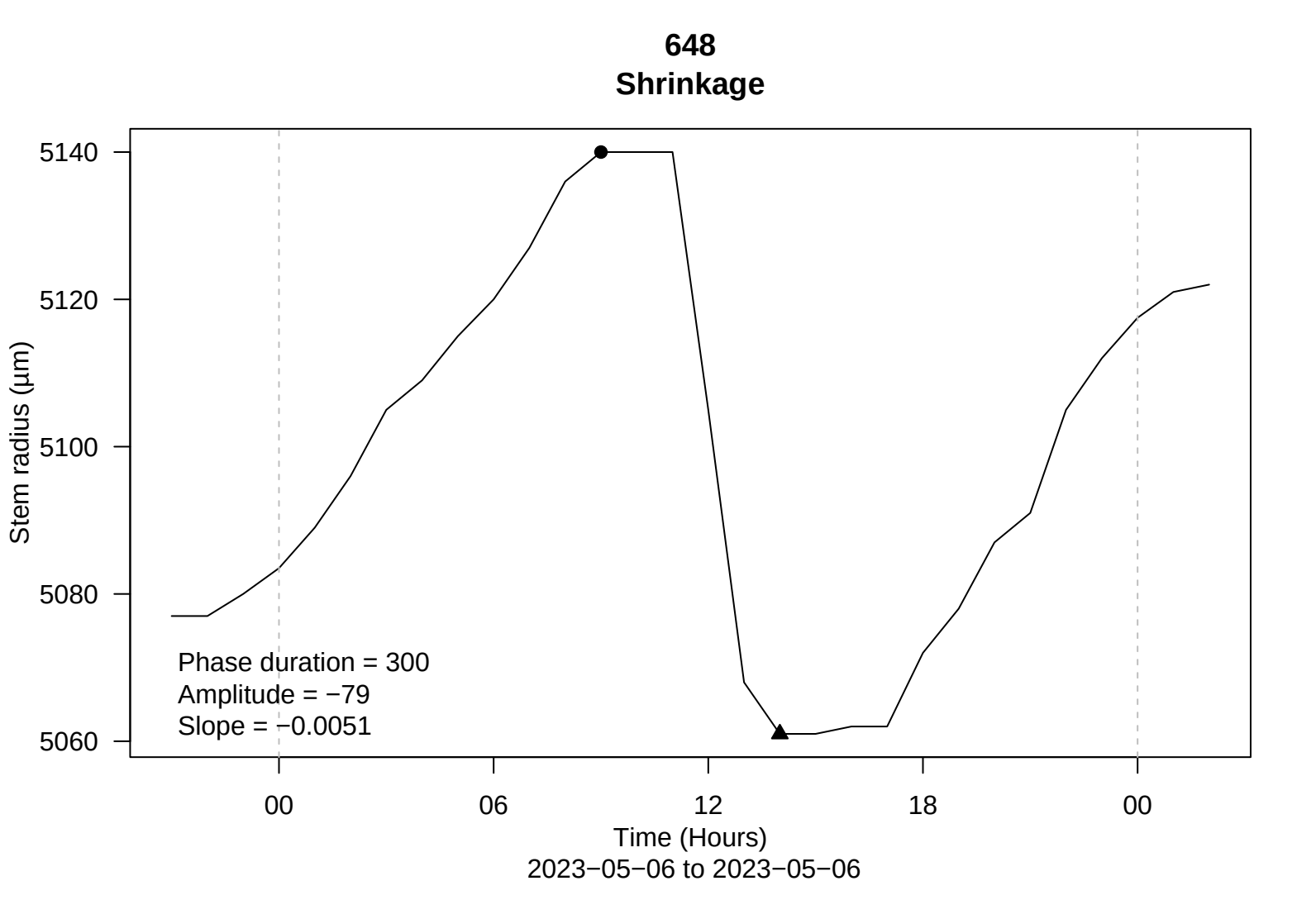

648
Expansion
5100
5080
5060
5040
5020
5000
Stem radius (µm)
Phase duration = 960
Amplitude = 36
Slope = 8e−04
12
00
12
Time (Hours)
2023−05−02 to 2023−05−03

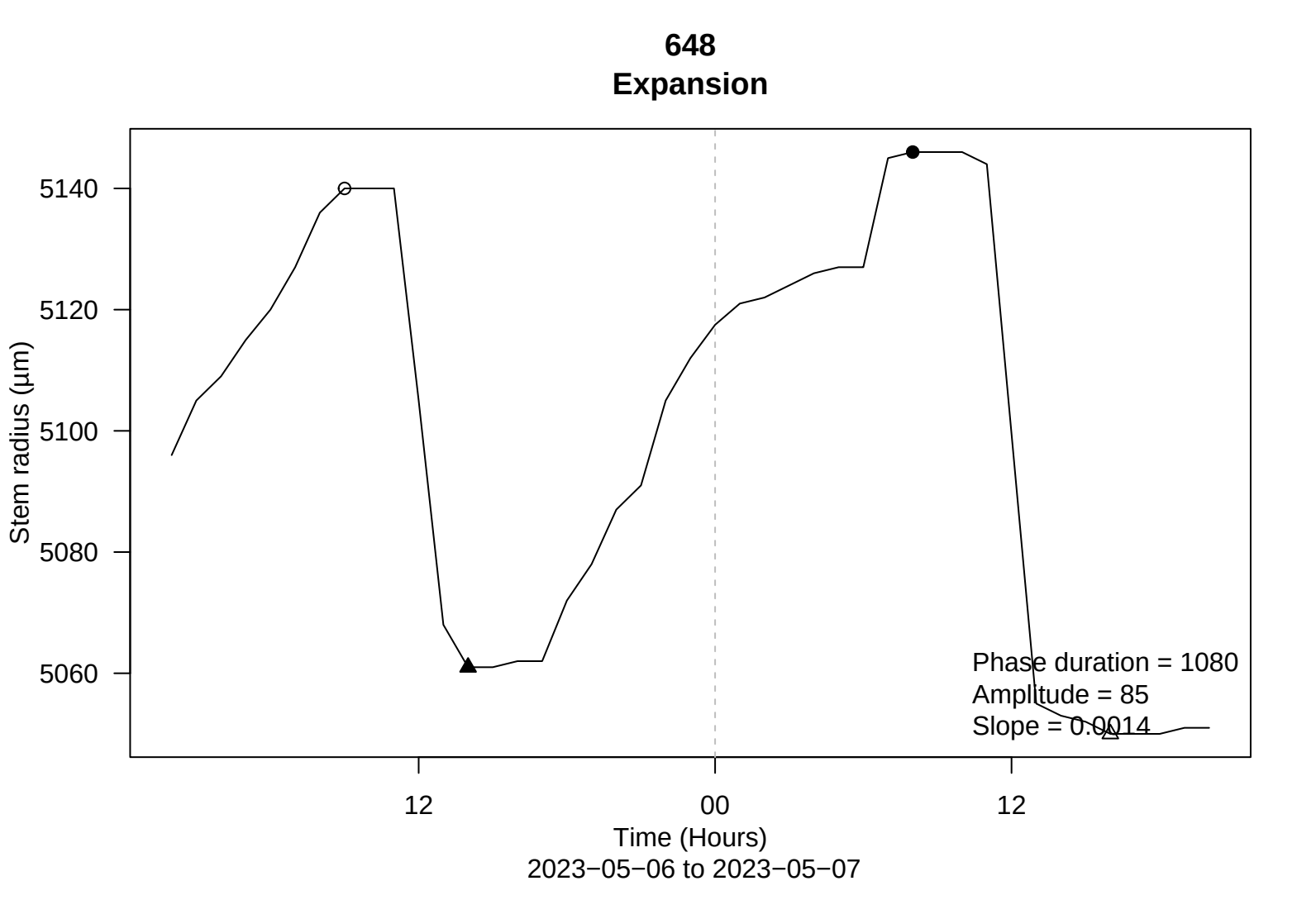

648
Shrinkage
5060
5040
5020
5000
Stem radius (µm)
Phase duration = 360
Amplitude = −81
Slope = −0.0043
00
06
12
18
00
Time (Hours)
2023−05−03 to 2023−05−03

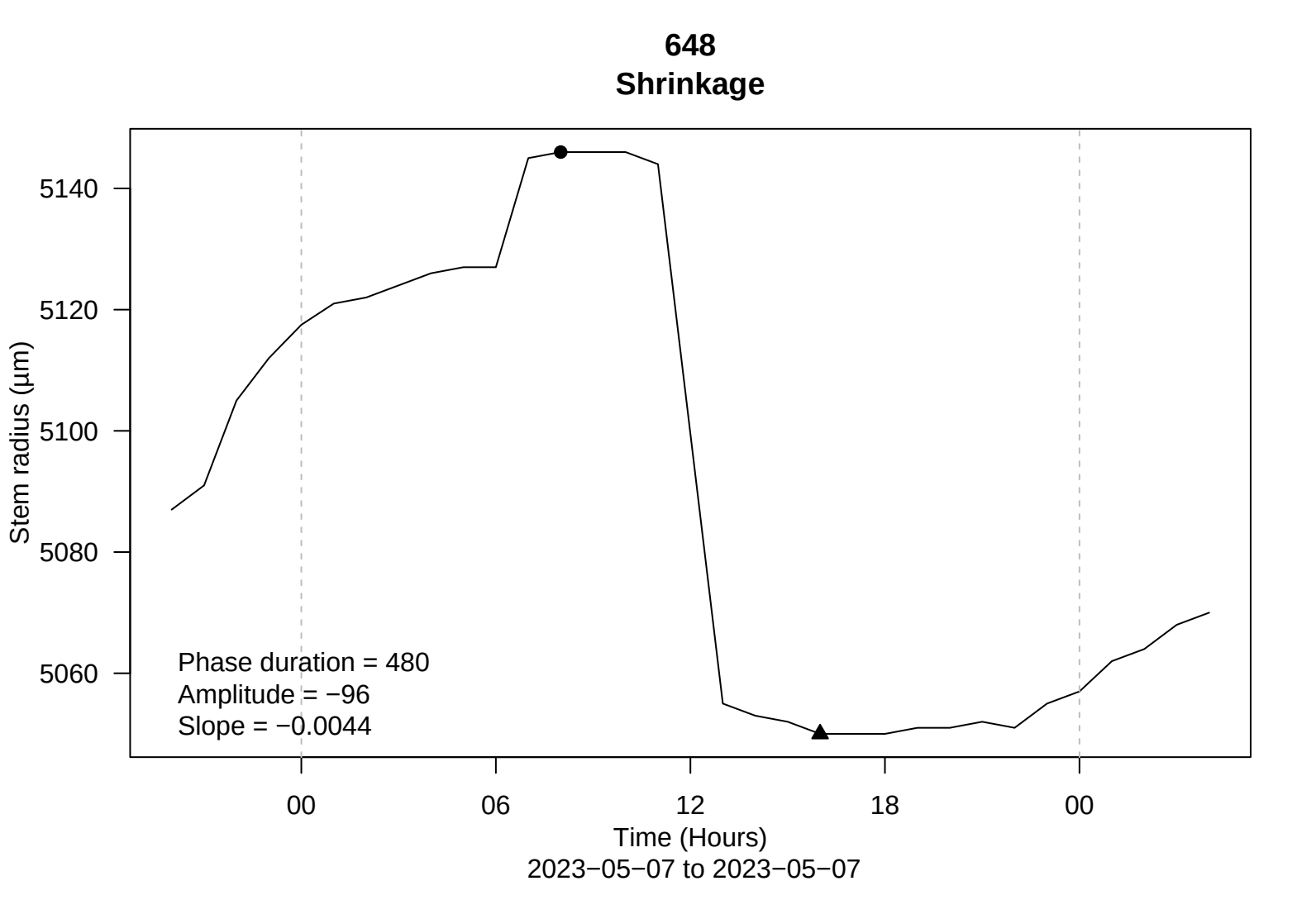

648
Expansion
5120
5100
5080
5060
5040
5020
5000
Stem radius (µm)
Phase duration = 1500
Amplitude = 136
Slope = 0.0016
12
00
12
00
Time (Hours)
2023−05−03 to 2023−05−04

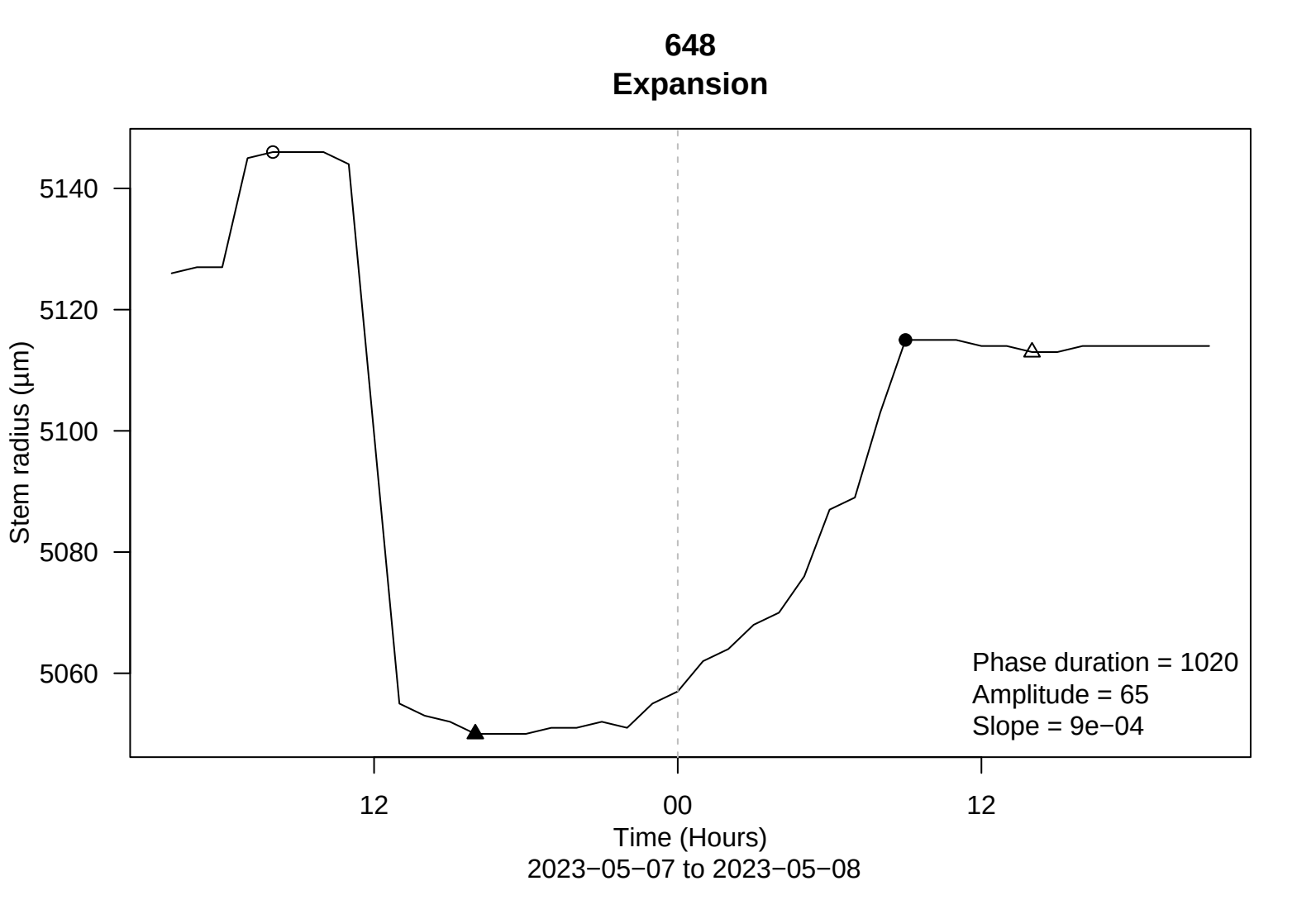

648
Shrinkage
5120
5100
5080
5060
Stem radius (µm)
Phase duration = 1440
Amplitude = −46
Slope = −3e−04
12
00
12
00
Time (Hours)
2023−05−04 to 2023−05−05

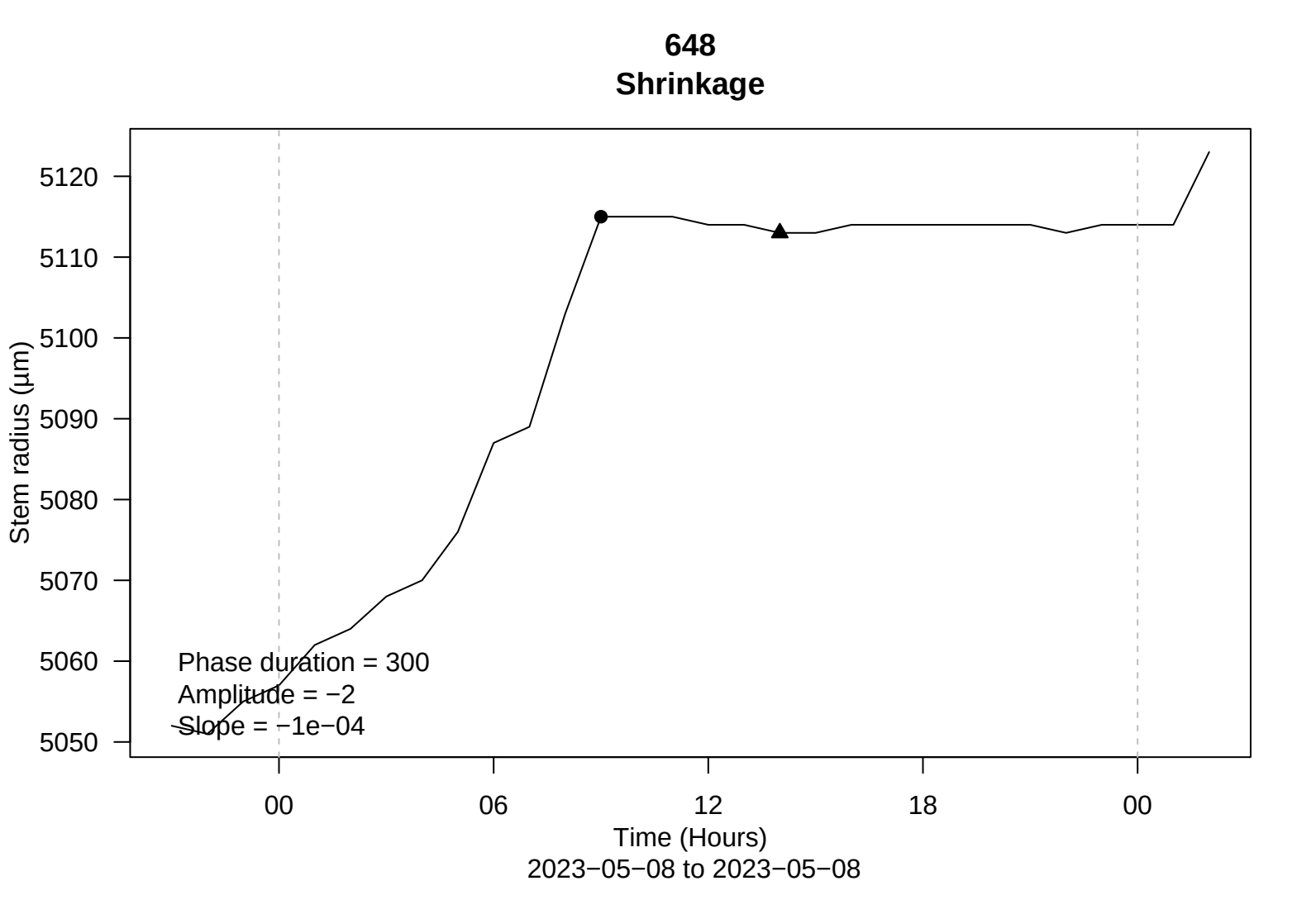

648
Expansion
5140
5120
5100
5080
5060
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−05 to 2023−05−06
Phase duration = 1080
Amplitude = 63
Slope = 0.001

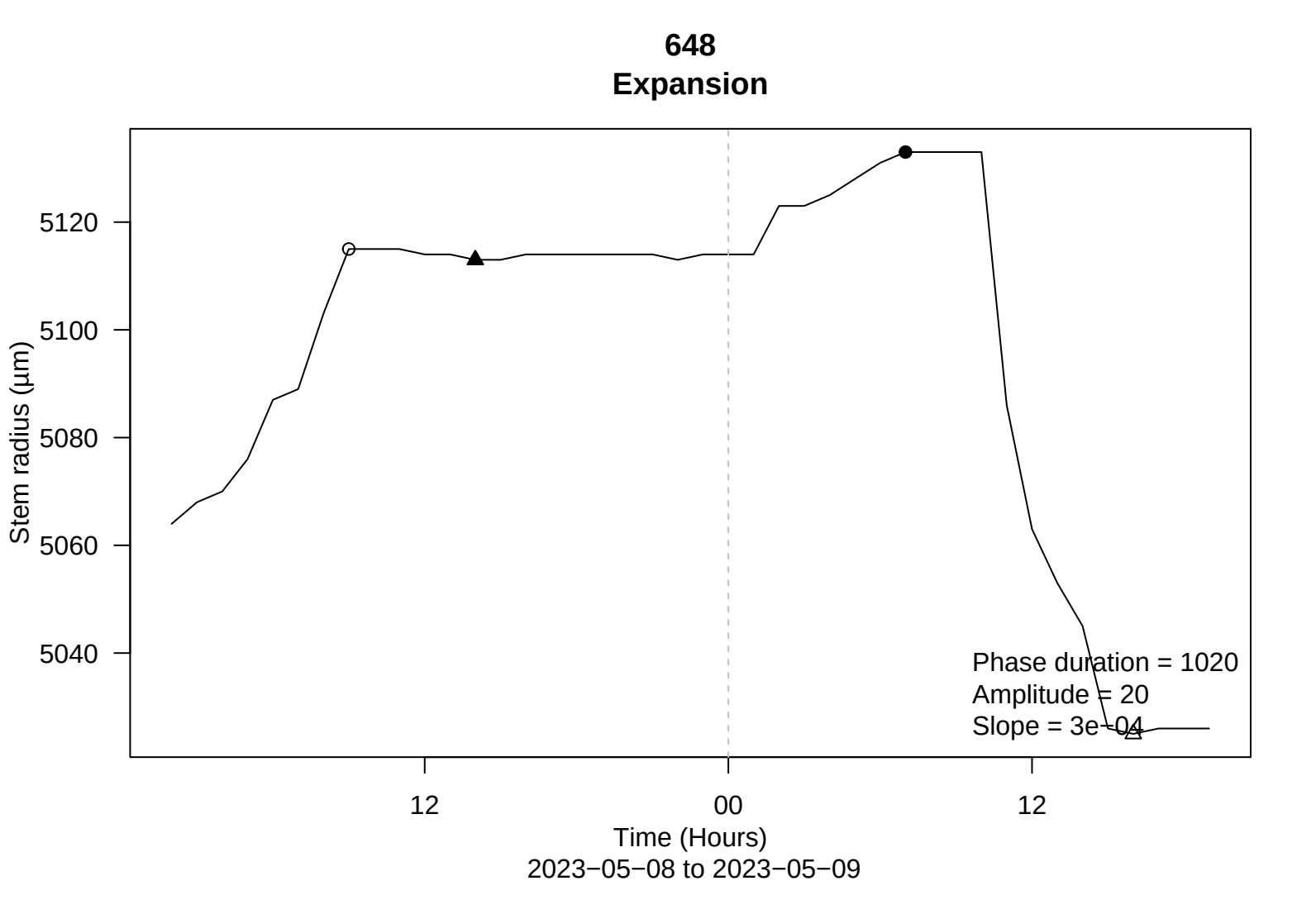

648
Shrinkage
5140
5120
5100
5080
5060
Stem radius (µm)
Phase duration = 300
Amplitude = −79
Slope = −0.0051
00
06
12
18
00
Time (Hours)
2023−05−06 to 2023−05−06

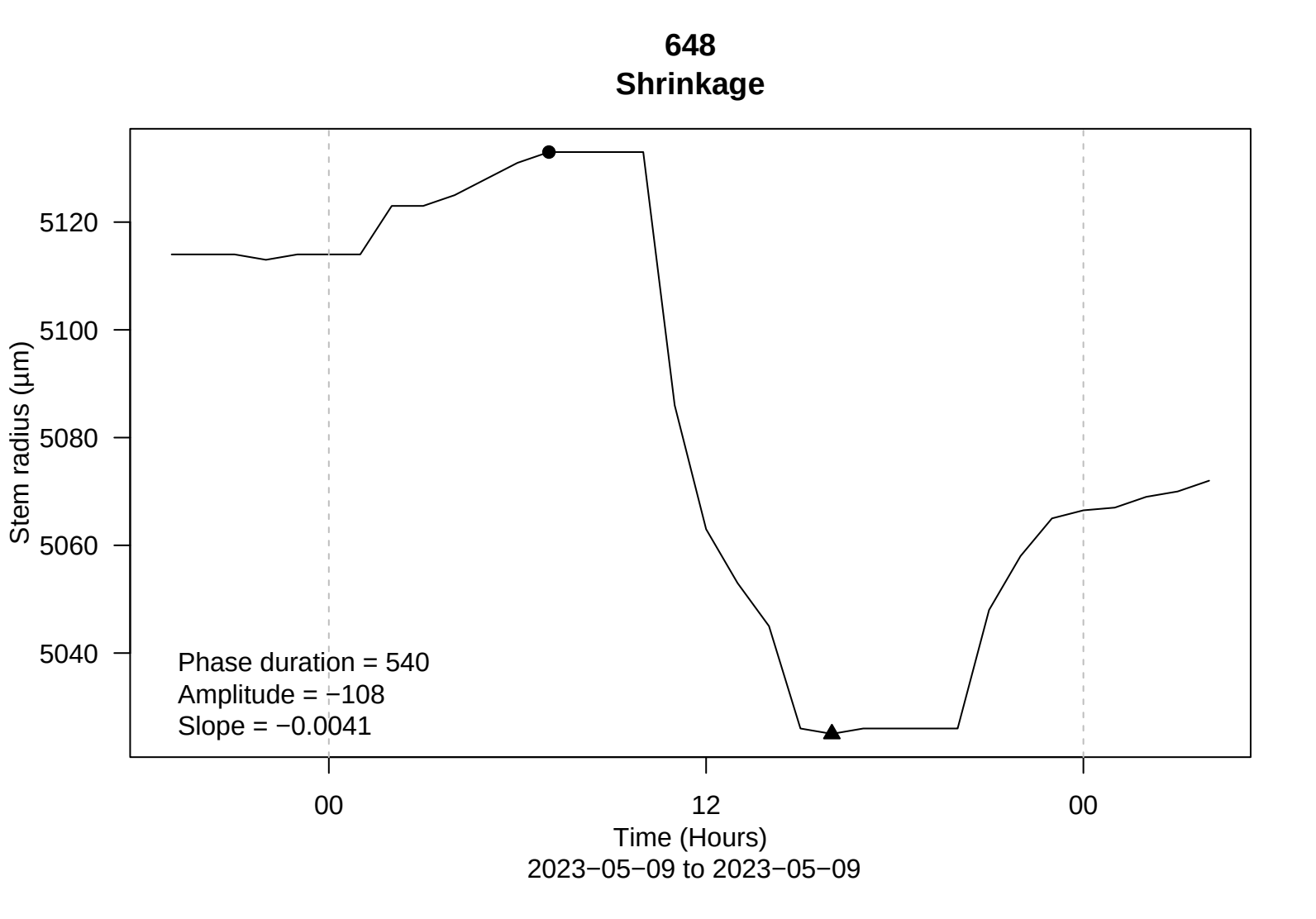

648
Expansion
5140
5120
5100
5080
5060
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−06 to 2023−05−07
Phase duration = 1080
Amplitude = 85
Slope = 0.0014

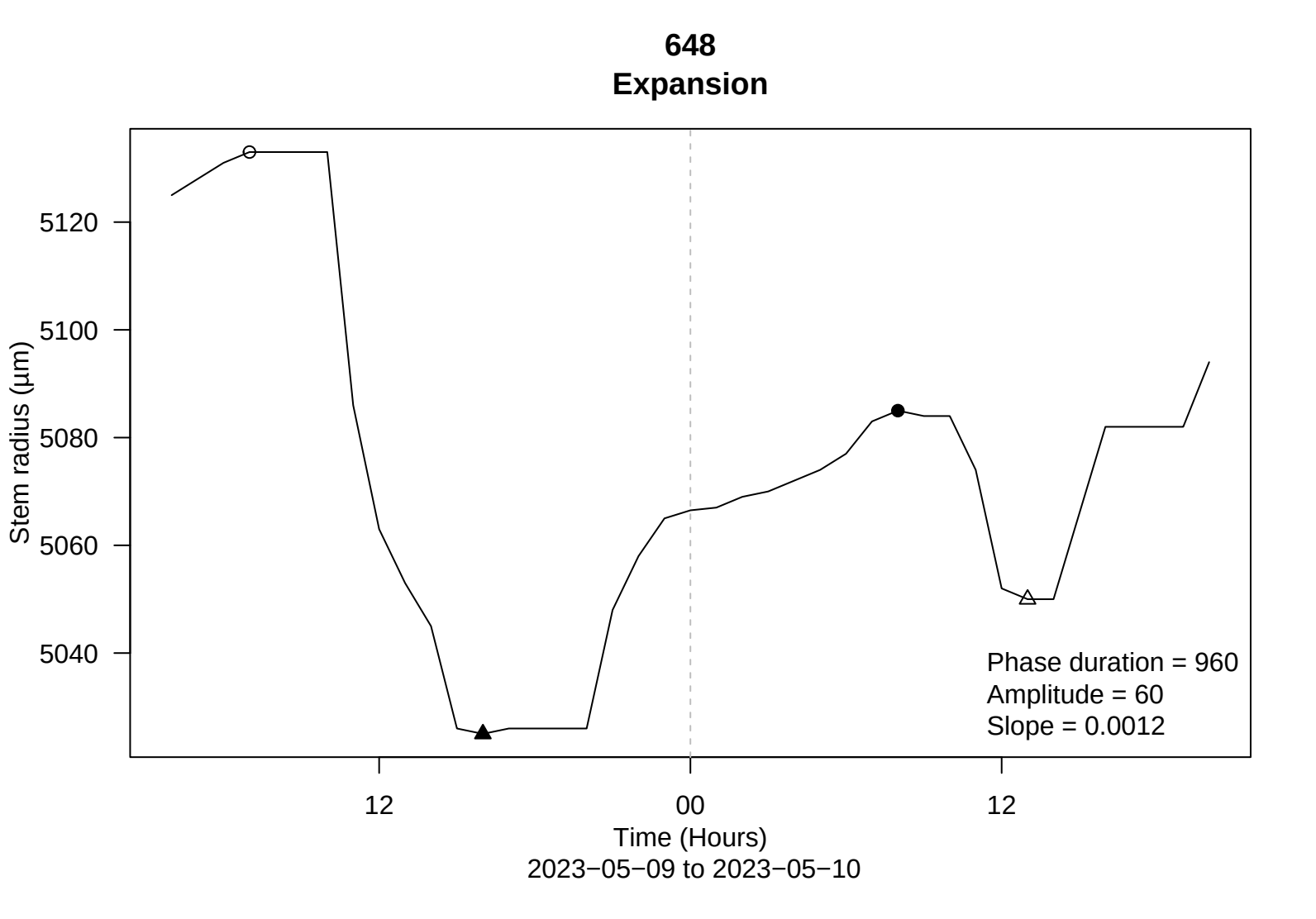

648
Shrinkage
5140
5120
5100
5080
5060
Stem radius (µm)
Phase duration = 480
Amplitude = −96
Slope = −0.0044
00
06
12
18
00
Time (Hours)
2023−05−07 to 2023−05−07

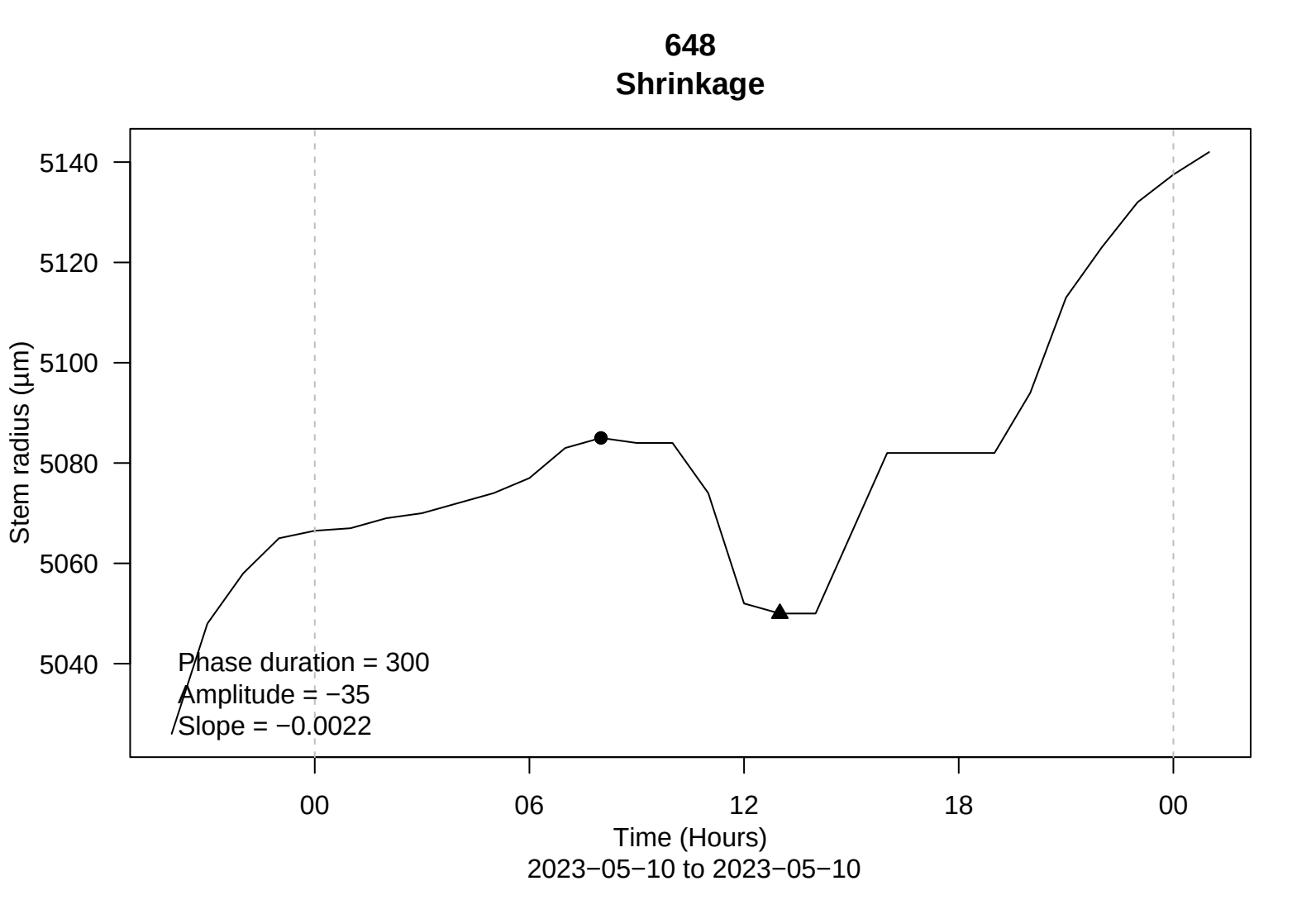

648
Expansion
5140
5120
5100
5080
5060
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−07 to 2023−05−08
Phase duration = 1020
Amplitude = 65
Slope = 9e−04

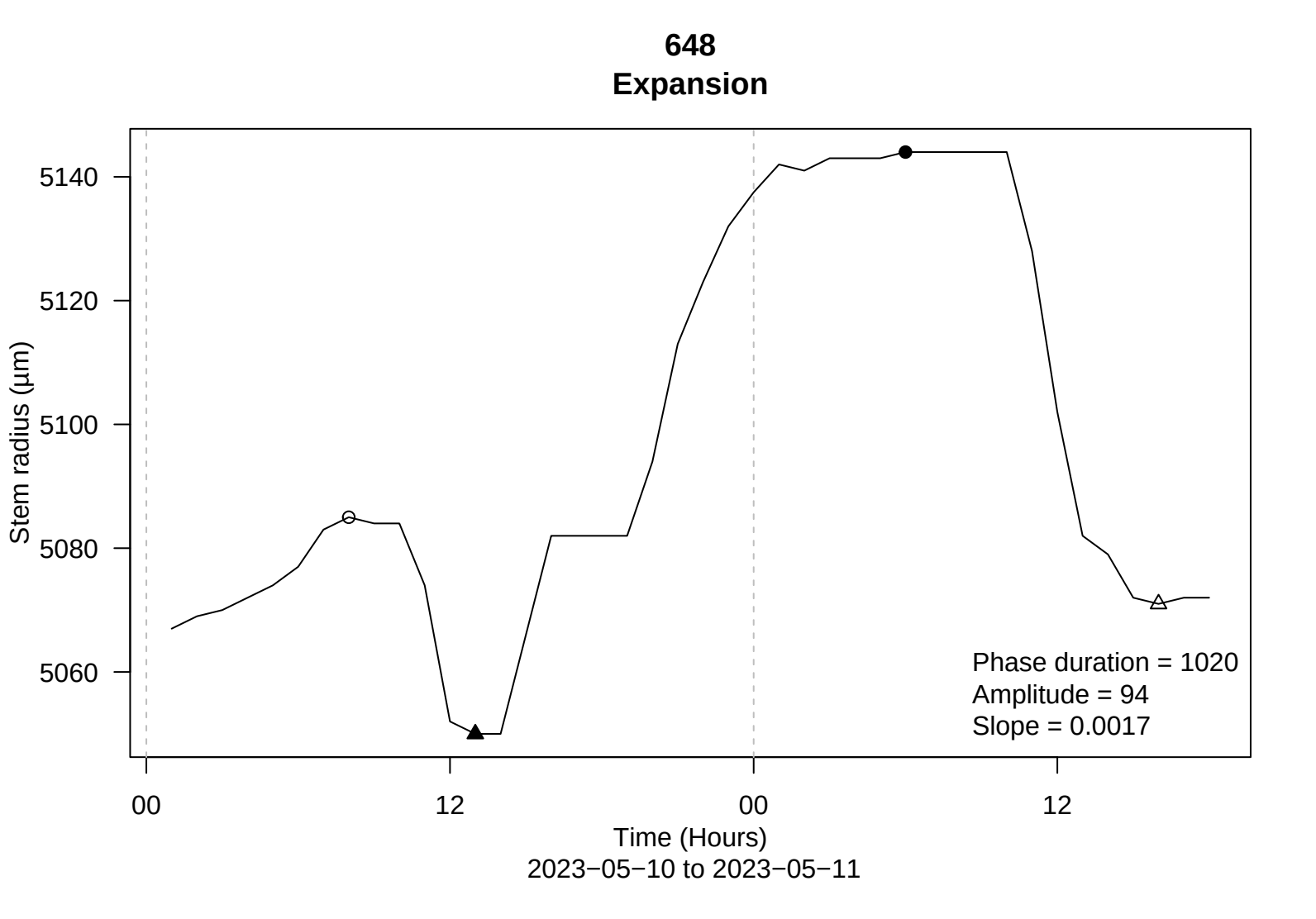

648
Shrinkage
5120
5110
5100
5090
5080
5070
5060
5050
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−05−08 to 2023−05−08

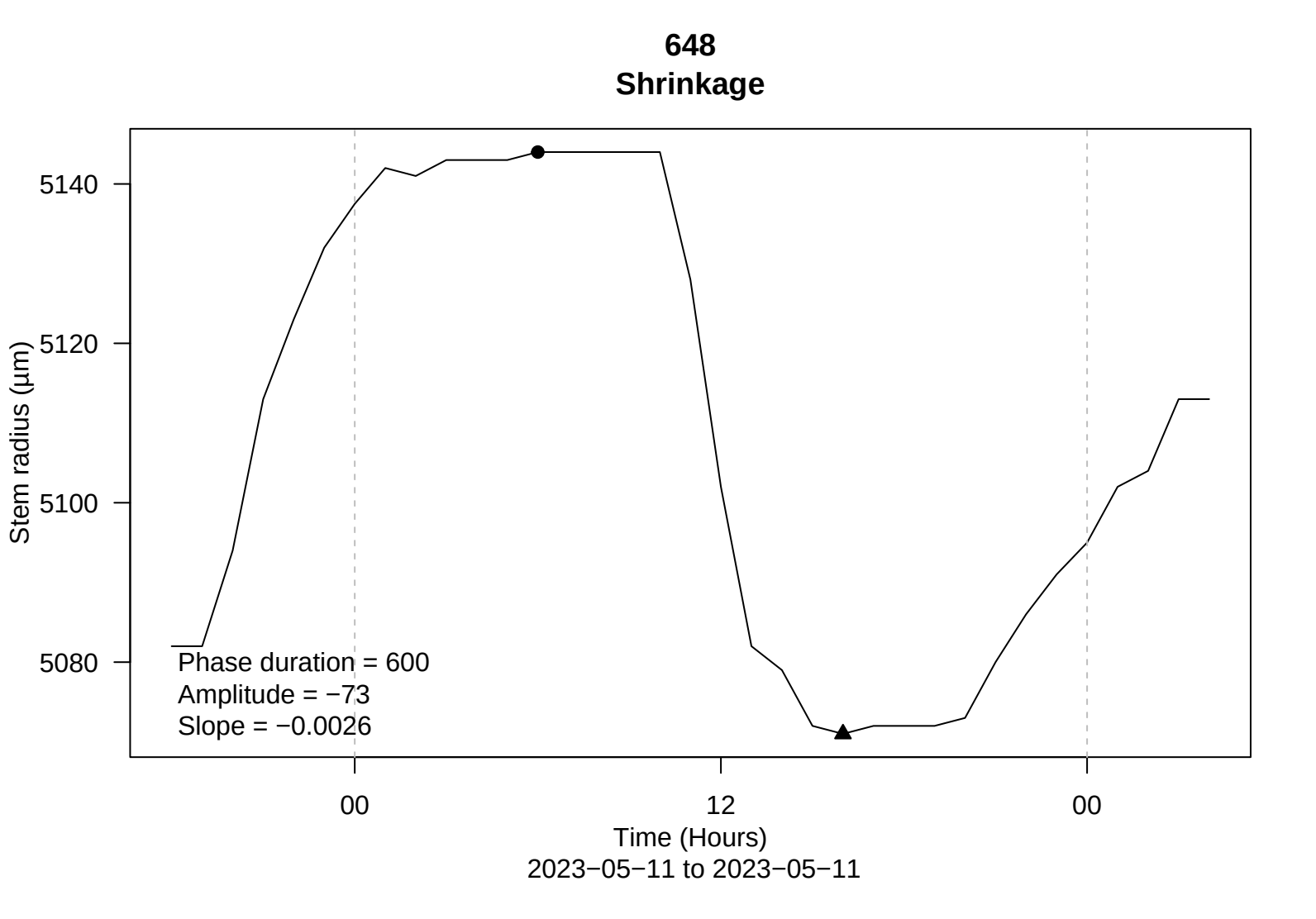

648
Expansion
5120
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 1020
Amplitude = 20
Slope = 3e−04
12
00
12
Time (Hours)
2023−05−08 to 2023−05−09

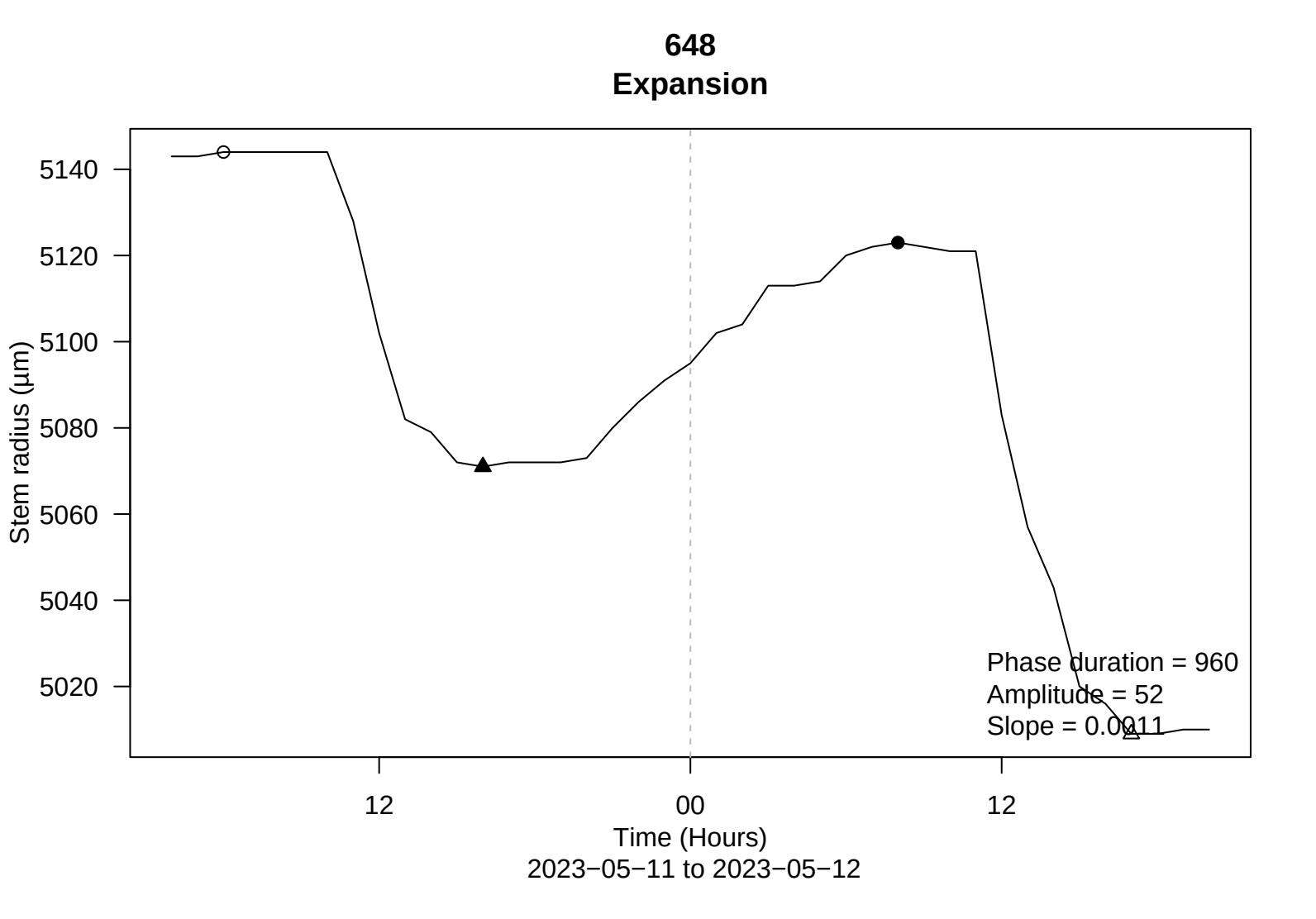

648
Shrinkage
5120
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 540
Amplitude = −108
Slope = −0.0041
00
12
00
Time (Hours)
2023−05−09 to 2023−05−09

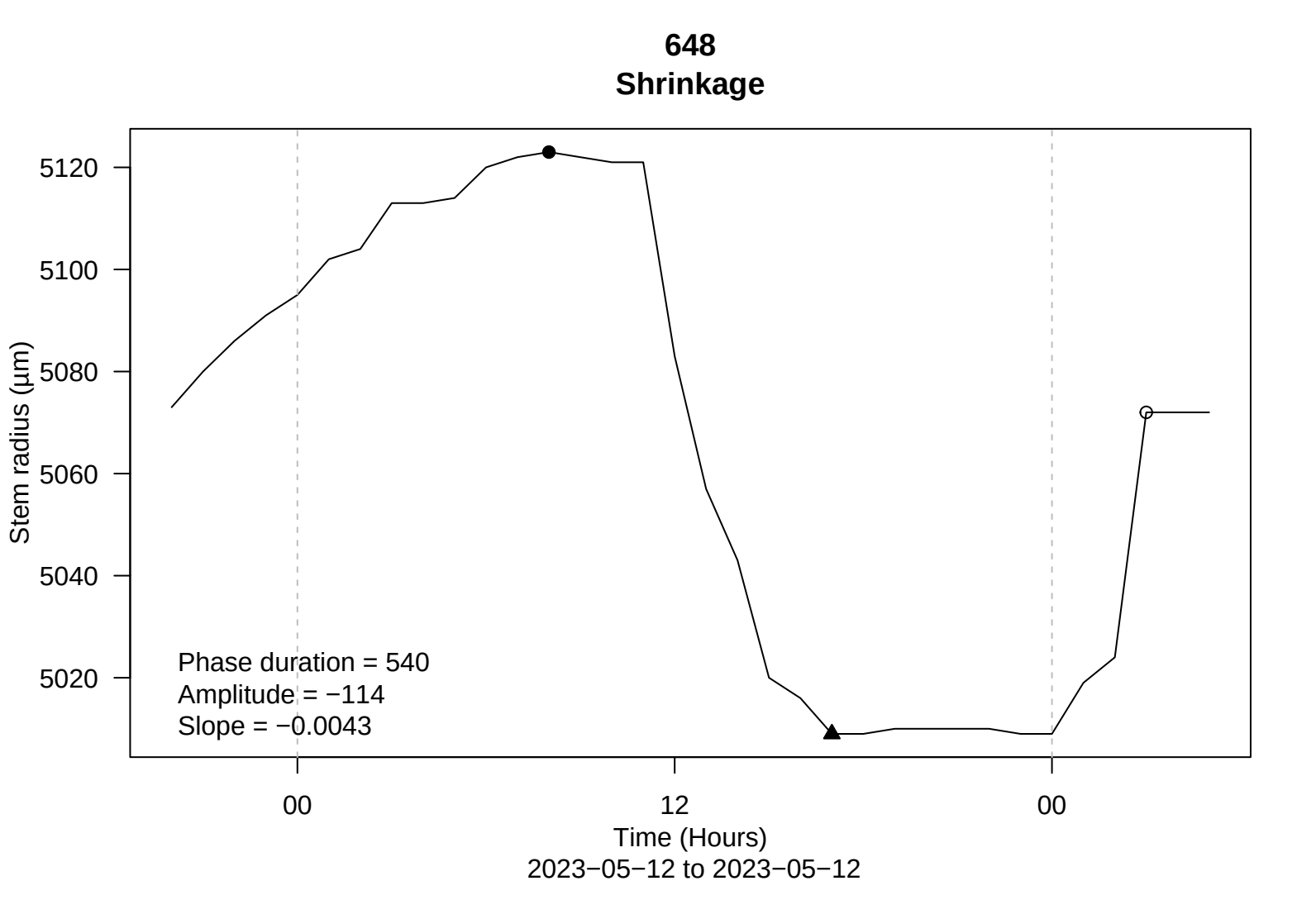

648
Expansion
5120
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 960
Amplitude = 60
Slope = 0.0012
12
00
12
Time (Hours)
2023−05−09 to 2023−05−10

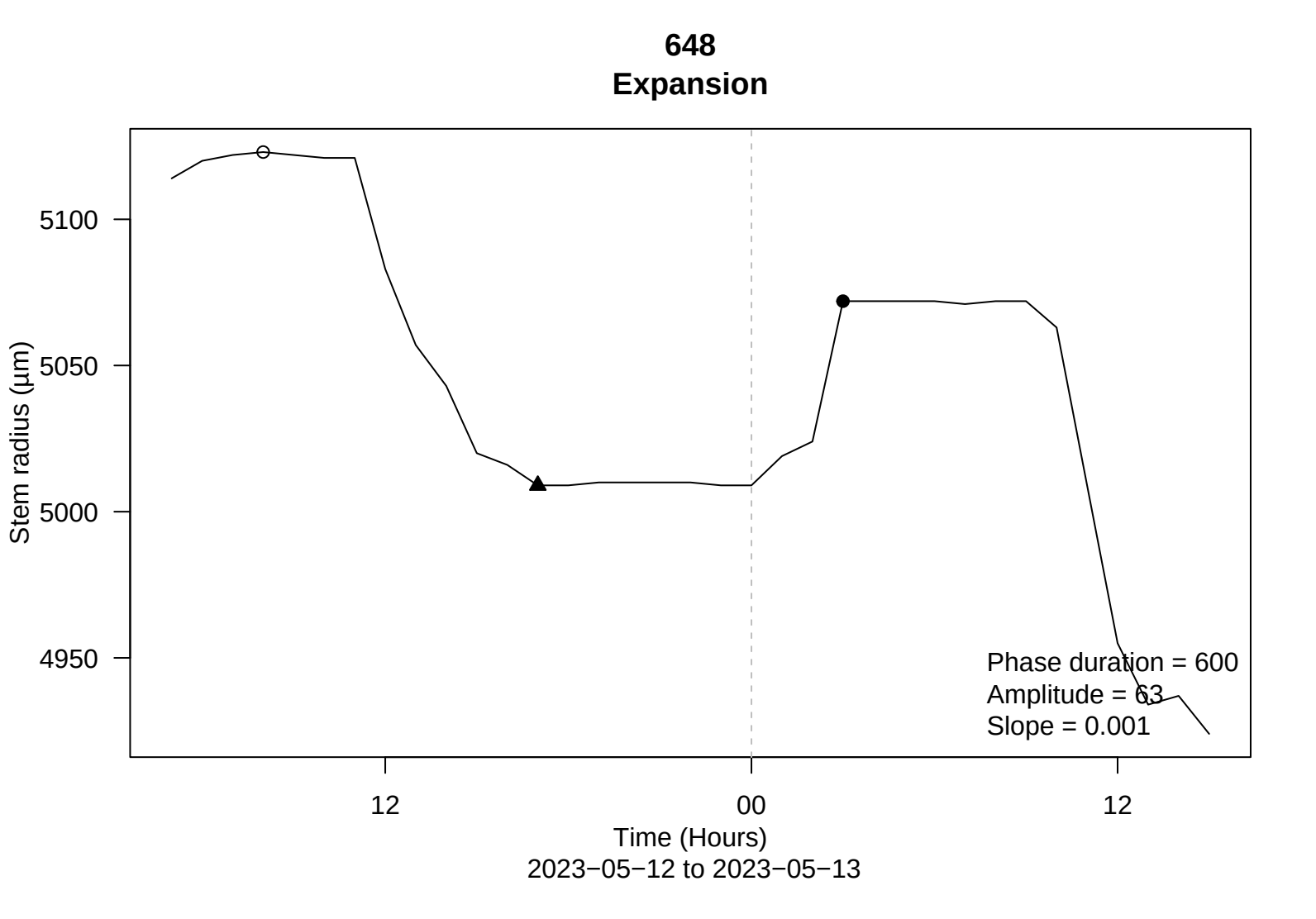

648
Shrinkage
5140
5120
5100
5080
5060
5040
Stem radius (µm)
Phase duration = 300
Amplitude = −35
Slope = −0.0022
00
06
12
18
00
Time (Hours)
2023−05−10 to 2023−05−10

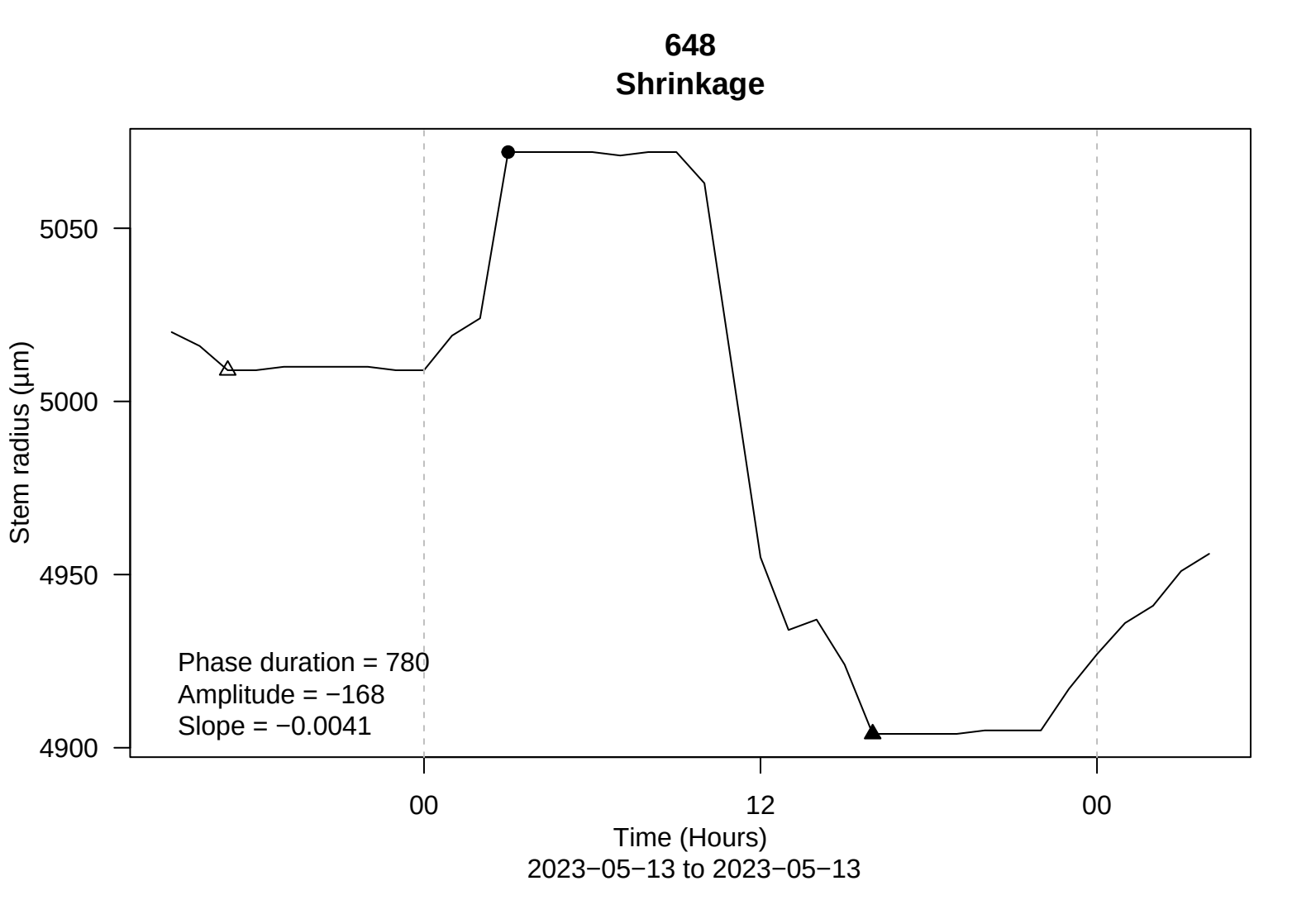

648
Expansion
5140
5120
5100
5080
5060
Stem radius (µm)
Phase duration = 1020
Amplitude = 94
Slope = 0.0017
00
12
00
12
Time (Hours)
2023−05−10 to 2023−05−11

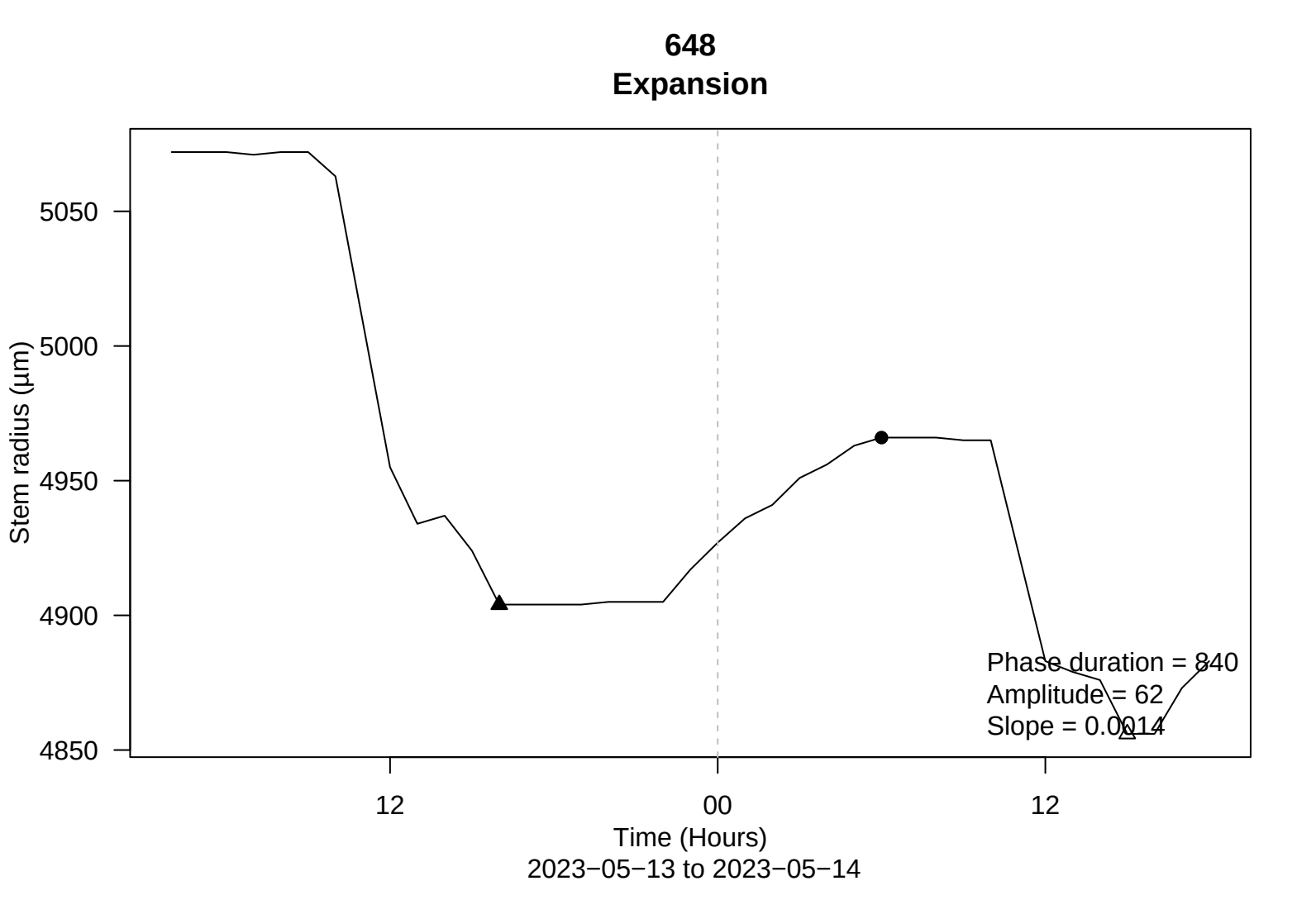

648
Shrinkage
5140
5120
5100
5080
Stem radius (µm)
Phase duration = 600
Amplitude = −73
Slope = −0.0026
00
12
00
Time (Hours)
2023−05−11 to 2023−05−11

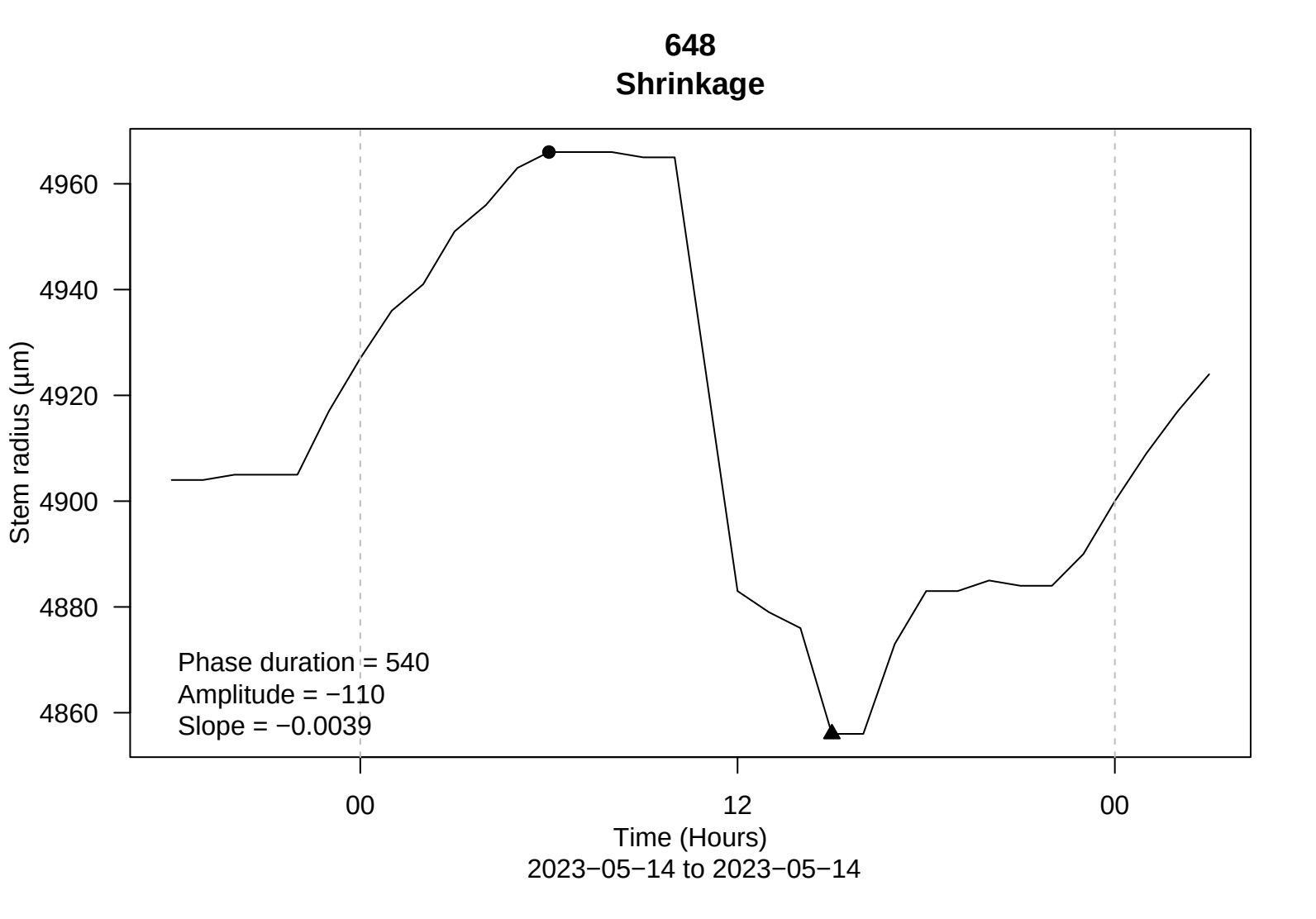

648
Expansion
5140
5120
5100
5080
5060
5040
5020
Stem radius (µm)
Phase duration = 960
Amplitude = 52
Slope = 0.0011
12
00
12
Time (Hours)
2023−05−11 to 2023−05−12

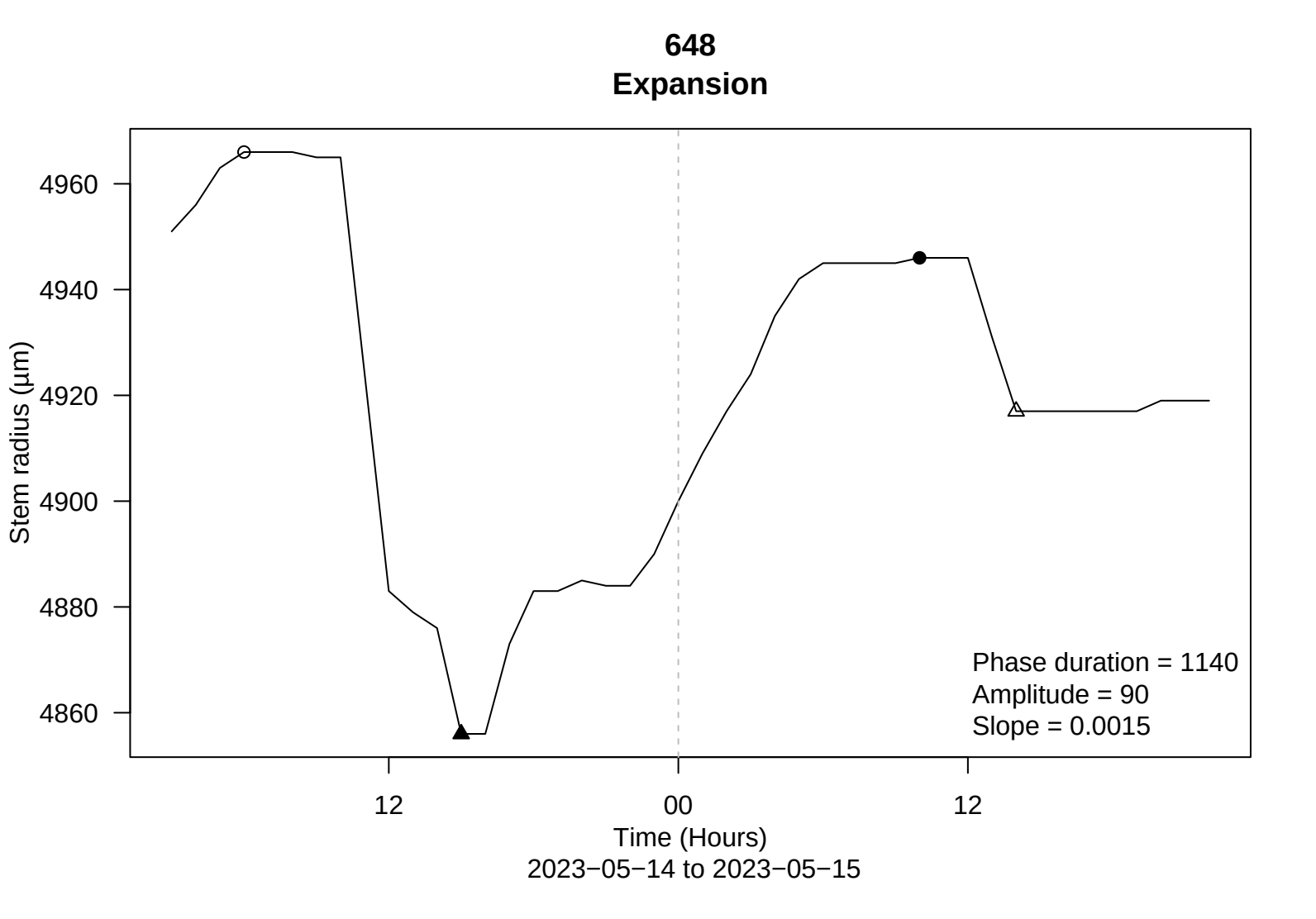

648
Shrinkage
5120
5100
5080
5060
5040
5020
Stem radius (µm)
Phase duration = 540
Amplitude = −114
Slope = −0.0043
00
12
00
Time (Hours)
2023−05−12 to 2023−05−12

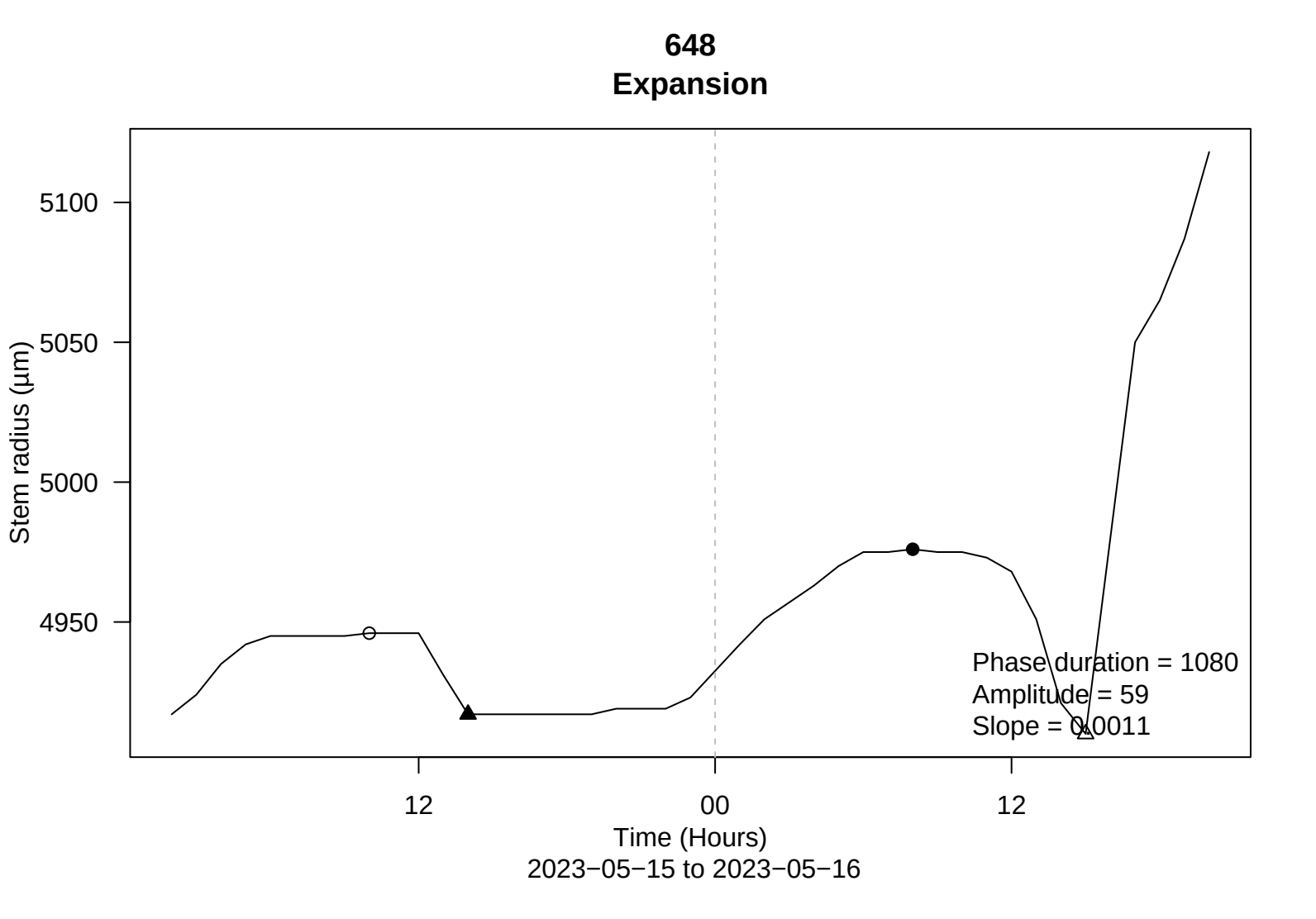

648
Expansion
5100
5050
5000
4950
Stem radius (µm)
Phase duration = 600
Amplitude = 63
Slope = 0.001
12
00
12
Time (Hours)
2023−05−12 to 2023−05−13

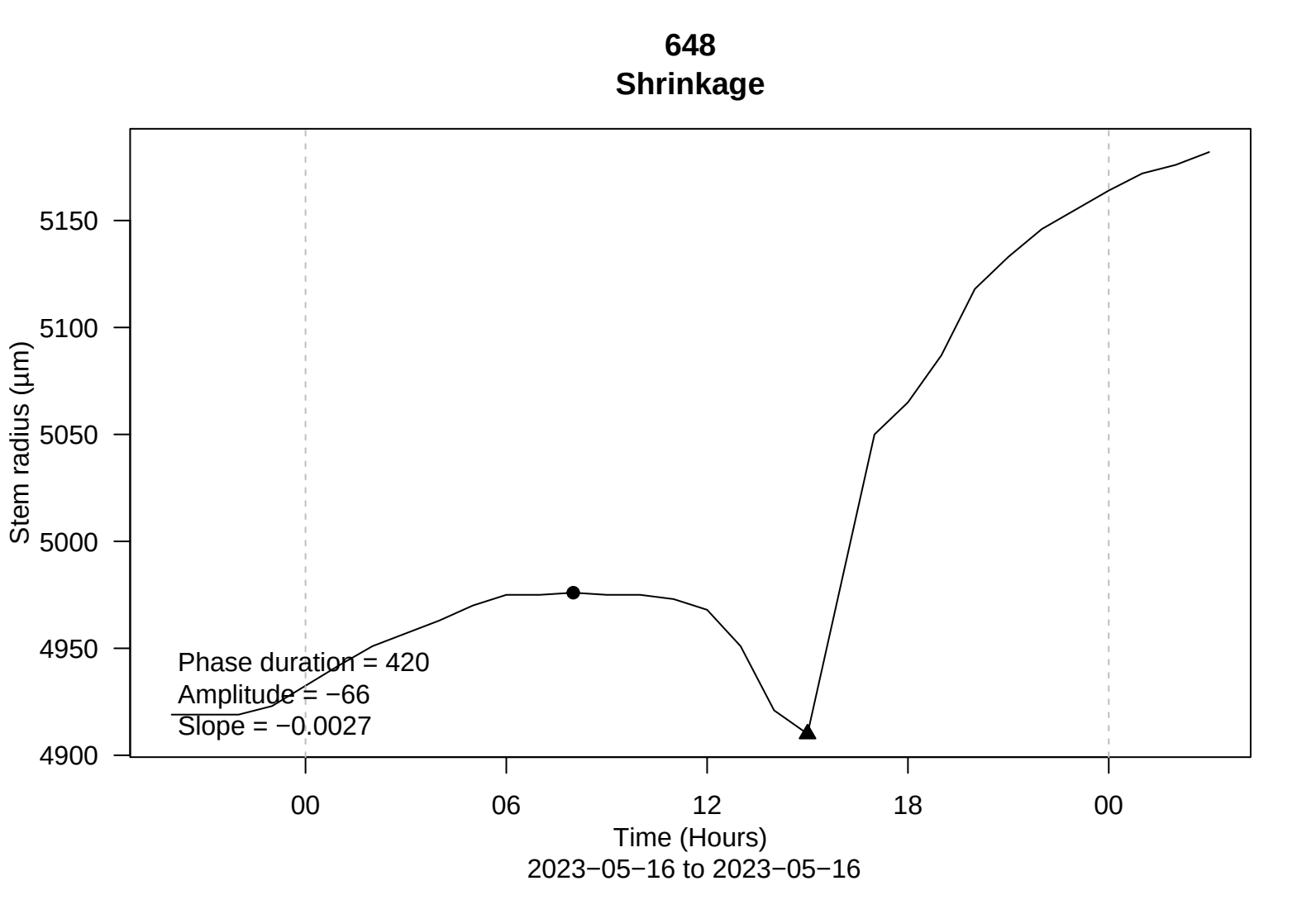

648
Shrinkage
5050
5000
4950
4900
Stem radius (µm)
Phase duration = 780
Amplitude = −168
Slope = −0.0041
00
12
00
Time (Hours)
2023−05−13 to 2023−05−13

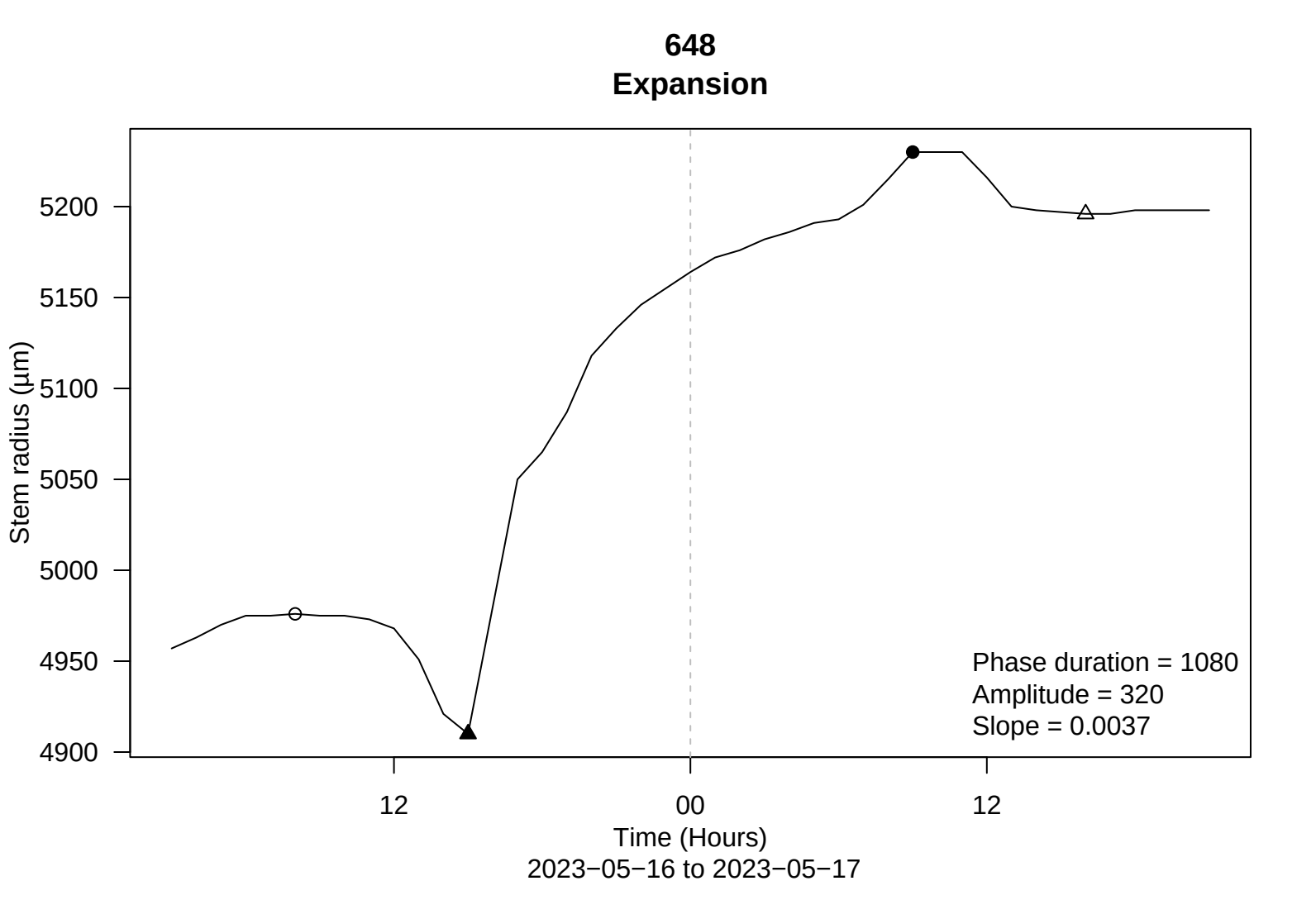

648
Expansion
5050
5000
4950
4900
4850
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−13 to 2023−05−14
Phase duration = 840
Amplitude = 62
Slope = 0.0014

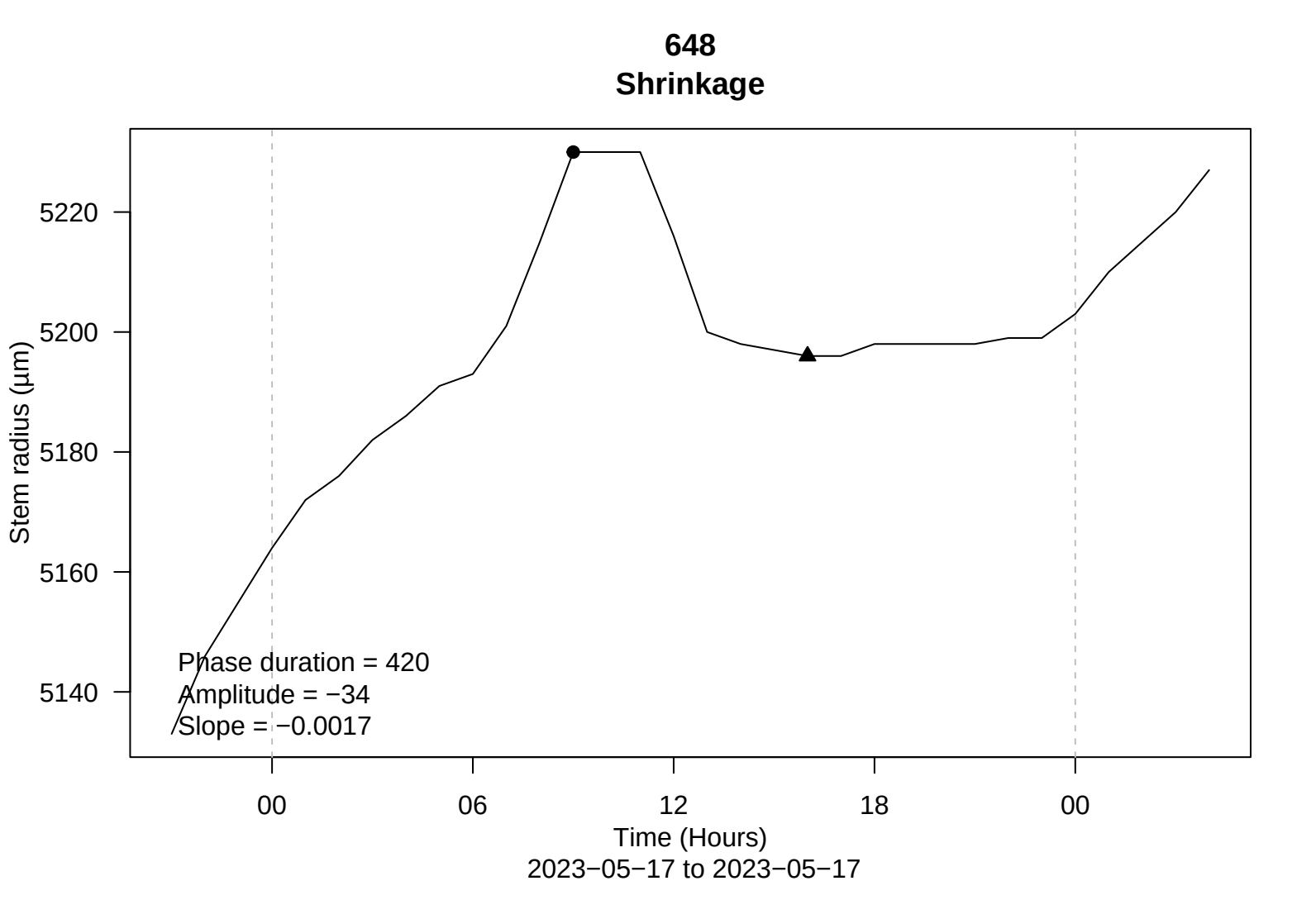

648
Shrinkage
4960
4940
4920
4900
4880
4860
Stem radius (µm)
Phase duration = 540
Amplitude = −110
Slope = −0.0039
00
12
00
Time (Hours)
2023−05−14 to 2023−05−14

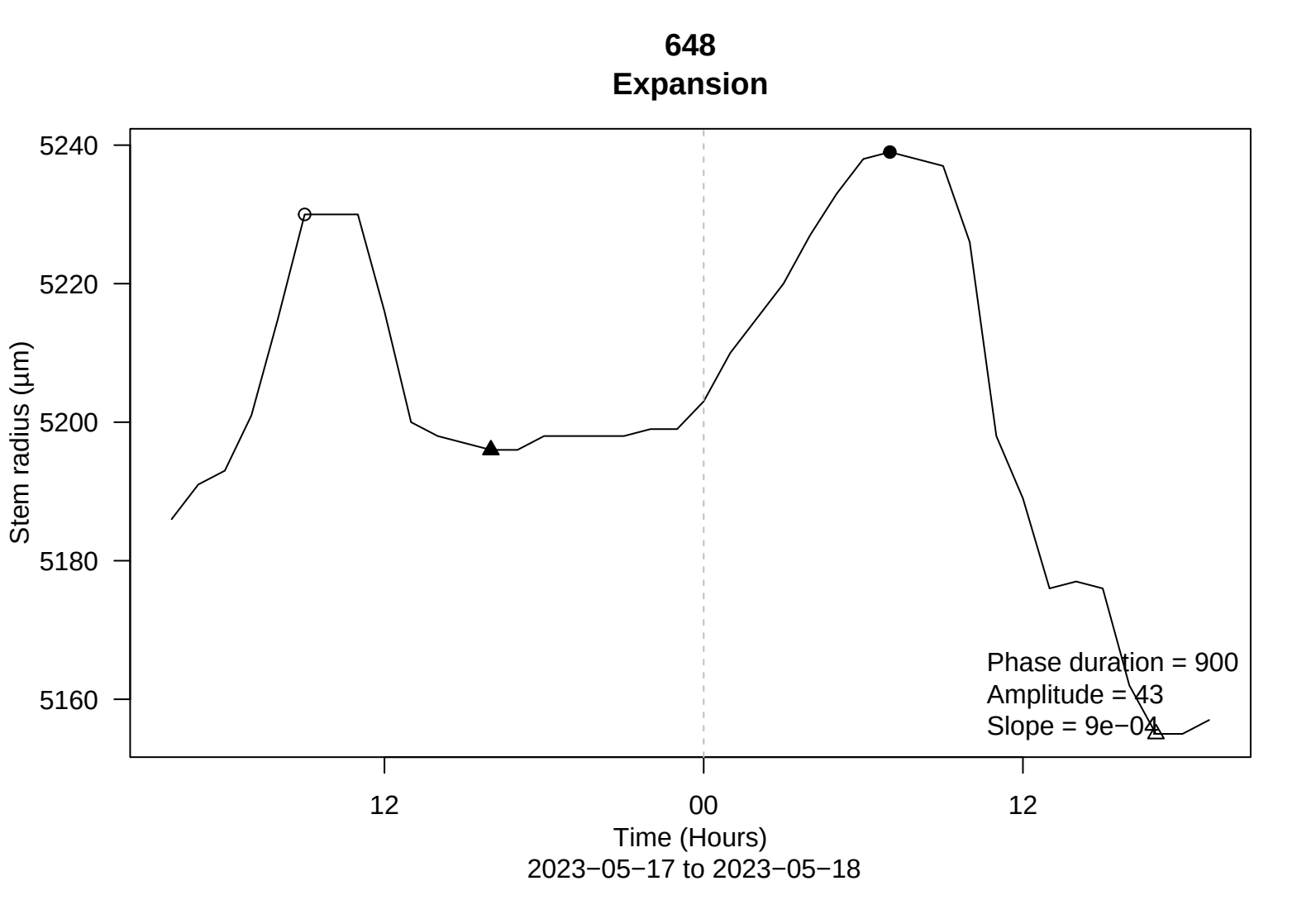

648
Expansion
4960
4940
4920
4900
4880
4860
Stem radius (µm)
Phase duration = 1140
Amplitude = 90
Slope = 0.0015
12
00
12
Time (Hours)
2023−05−14 to 2023−05−15

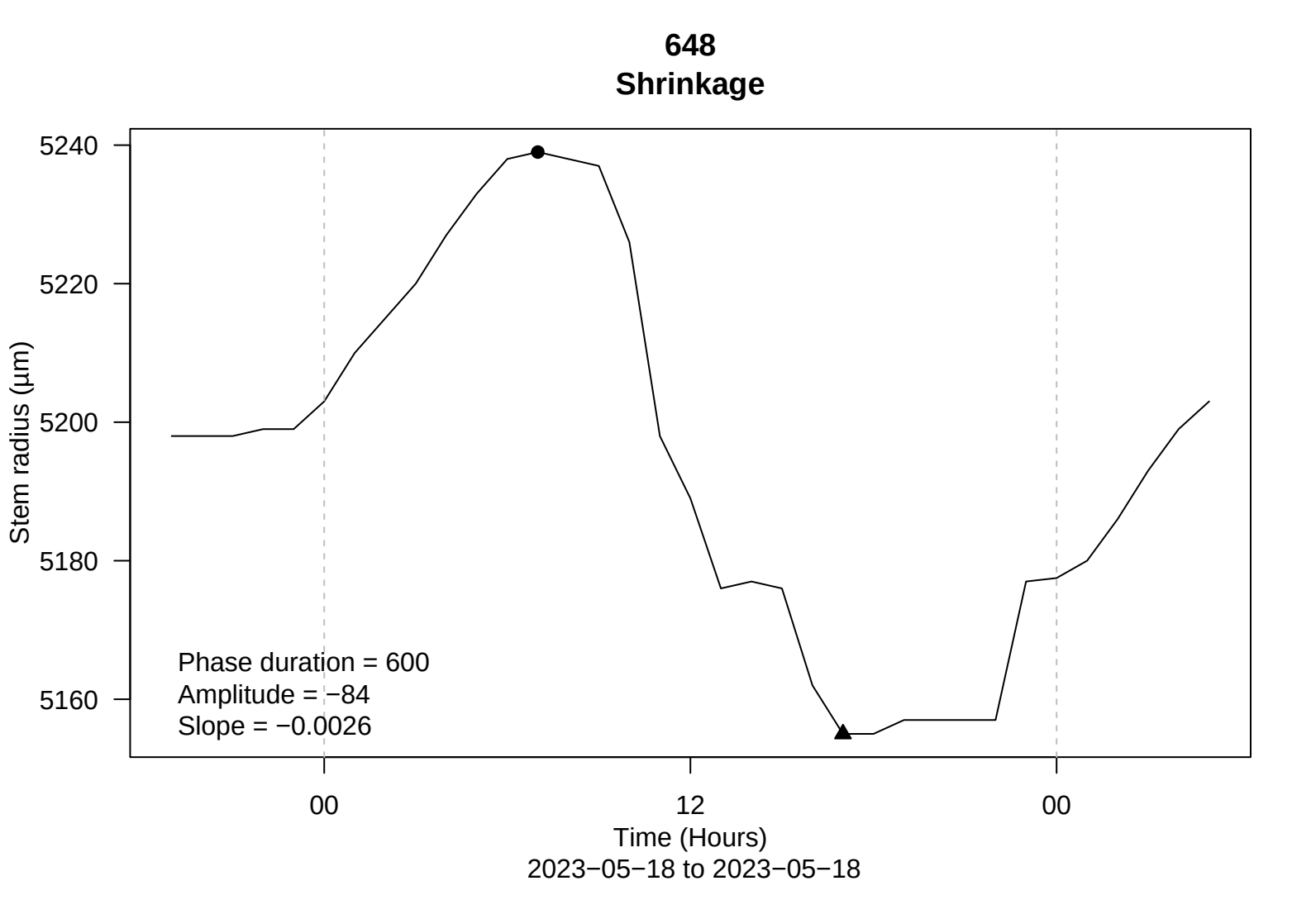

648
Expansion
5100
5050
5000
4950
Stem radius (µm)
Phase duration = 1080
Amplitude = 59
Slope = 0.0011
12
00
12
Time (Hours)
2023−05−15 to 2023−05−16

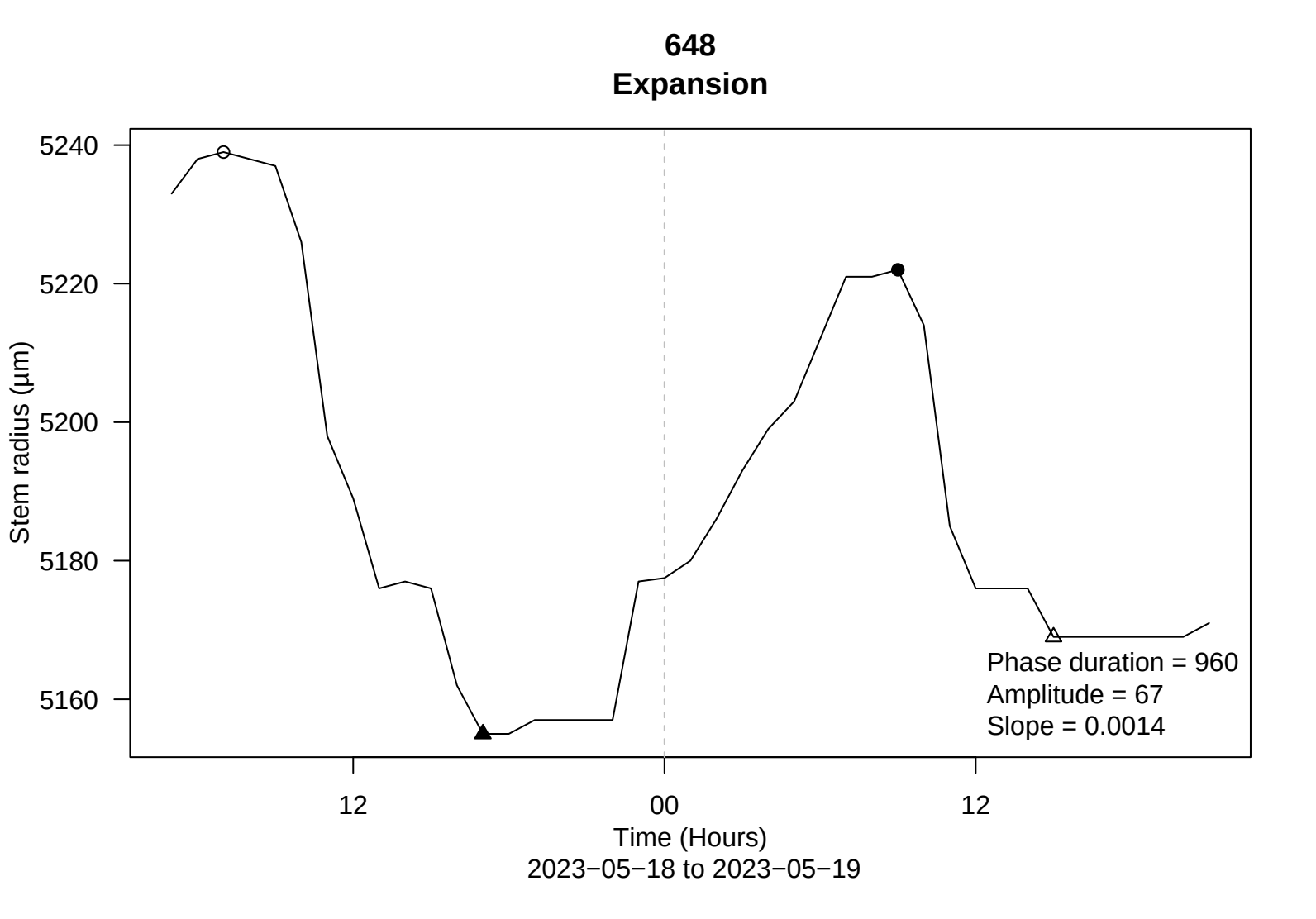

648
Shrinkage
Stem radius (µm)
5150
5100
5050
5000
4950
4900
Phase duration = 420
Amplitude = −66
Slope = −0.0027
00
06
12
18
00
Time (Hours)
2023−05−16 to 2023−05−16

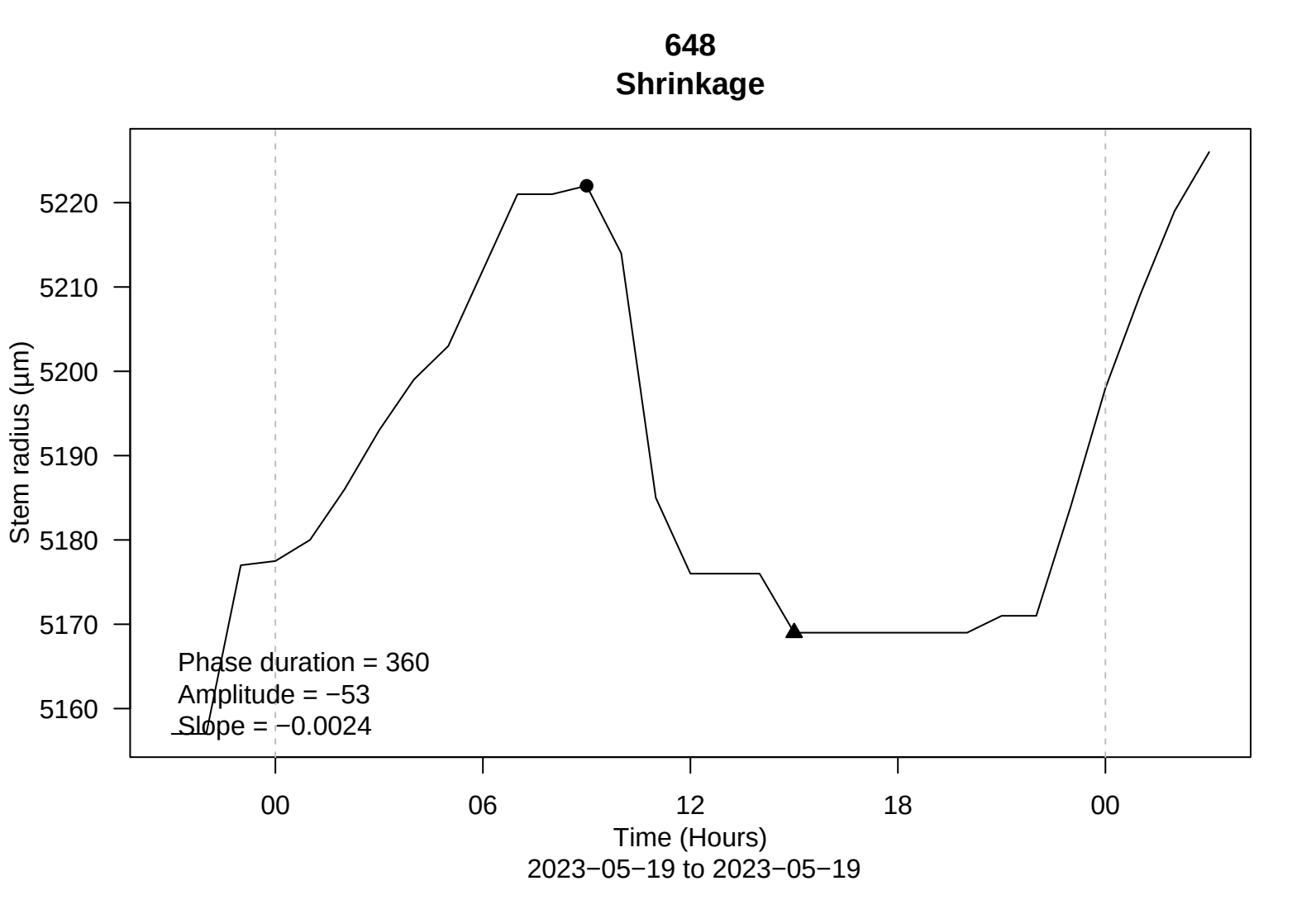

648
Expansion
5200
5150
5100
5050
5000
4950
4900
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−16 to 2023−05−17
Phase duration = 1080
Amplitude = 320
Slope = 0.0037

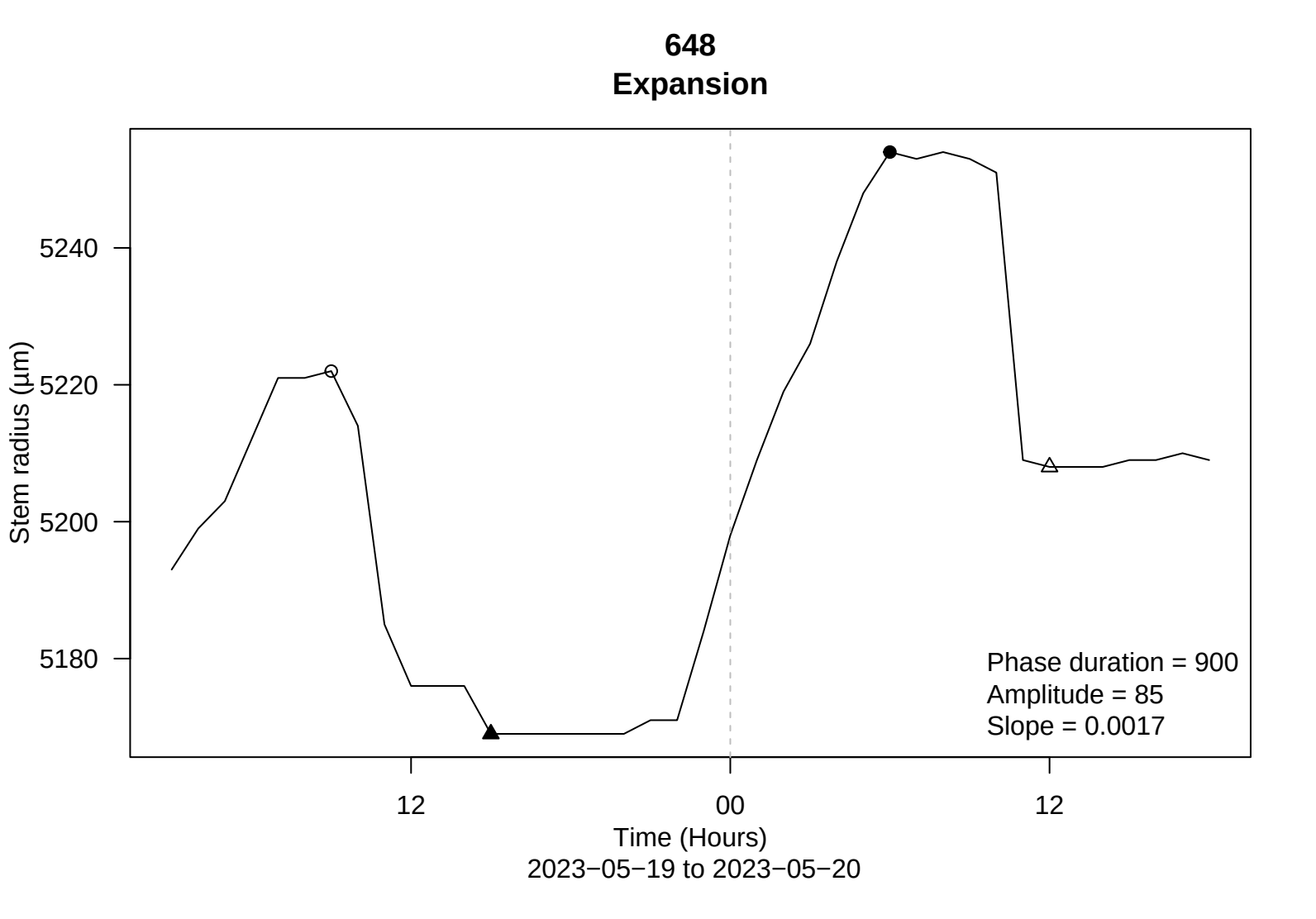

648
Shrinkage
Stem radius (µm)
5220
5200
5180
5160
5140
Phase duration = 420
Amplitude = −34
Slope = −0.0017
00
06
12
18
00
Time (Hours)
2023−05−17 to 2023−05−17

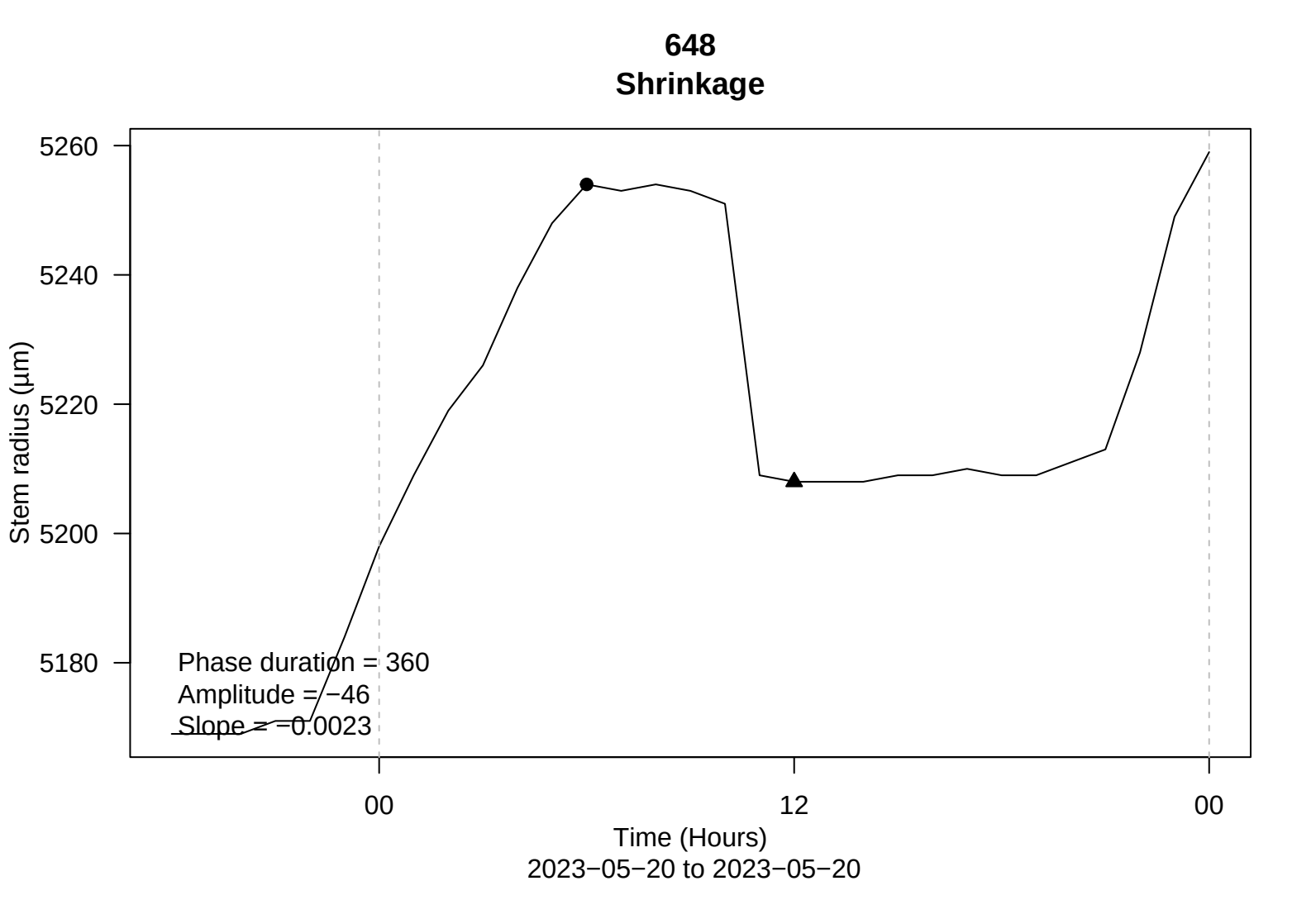

648
Expansion
5240
5220
5200
5180
5160
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−17 to 2023−05−18
Phase duration = 900
Amplitude = 43
Slope = 9e−04

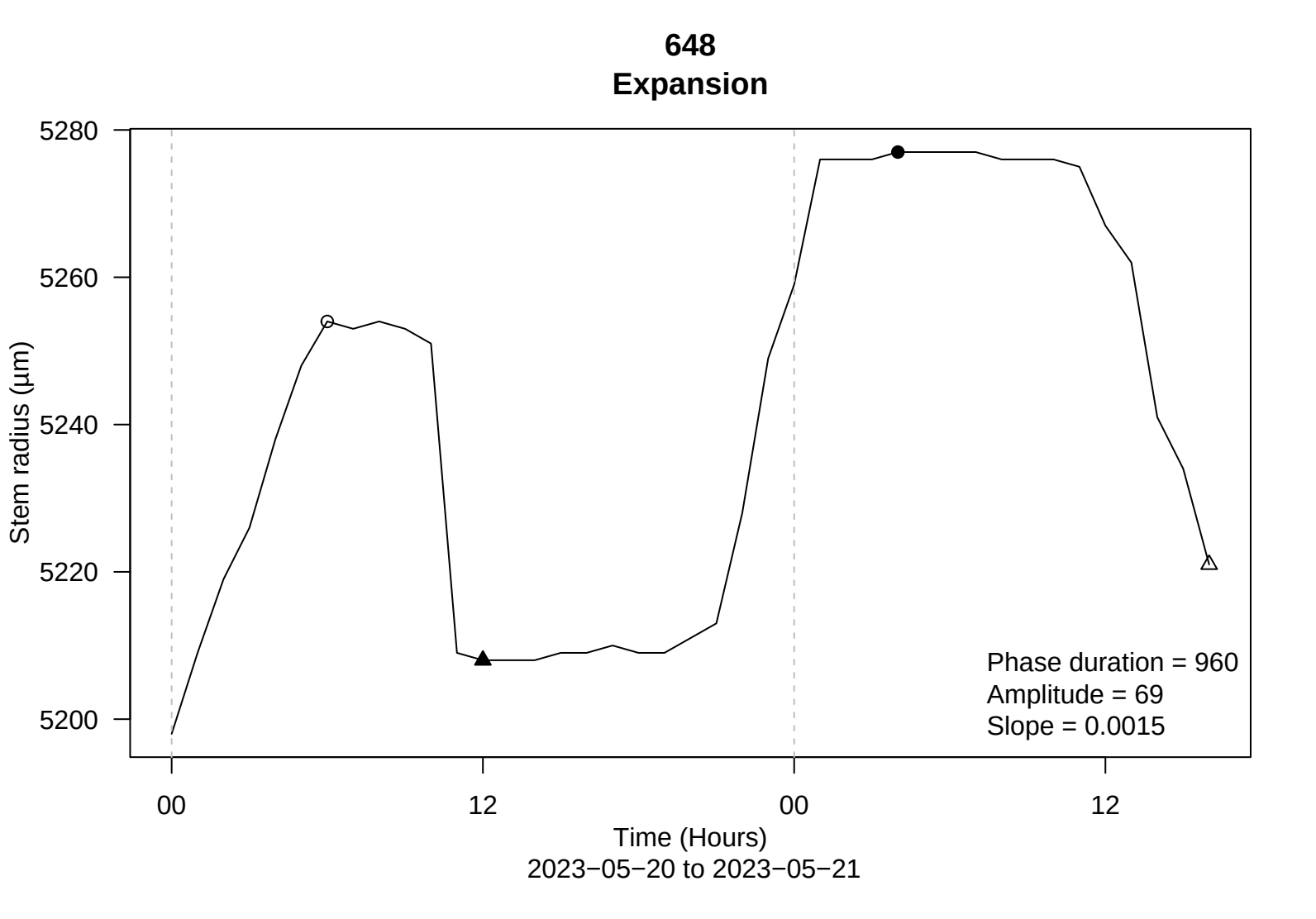

648
Shrinkage
5240
5220
5200
5180
5160
Stem radius (µm)
Phase duration = 600
Amplitude = −84
Slope = −0.0026
00
12
00
Time (Hours)
2023−05−18 to 2023−05−18

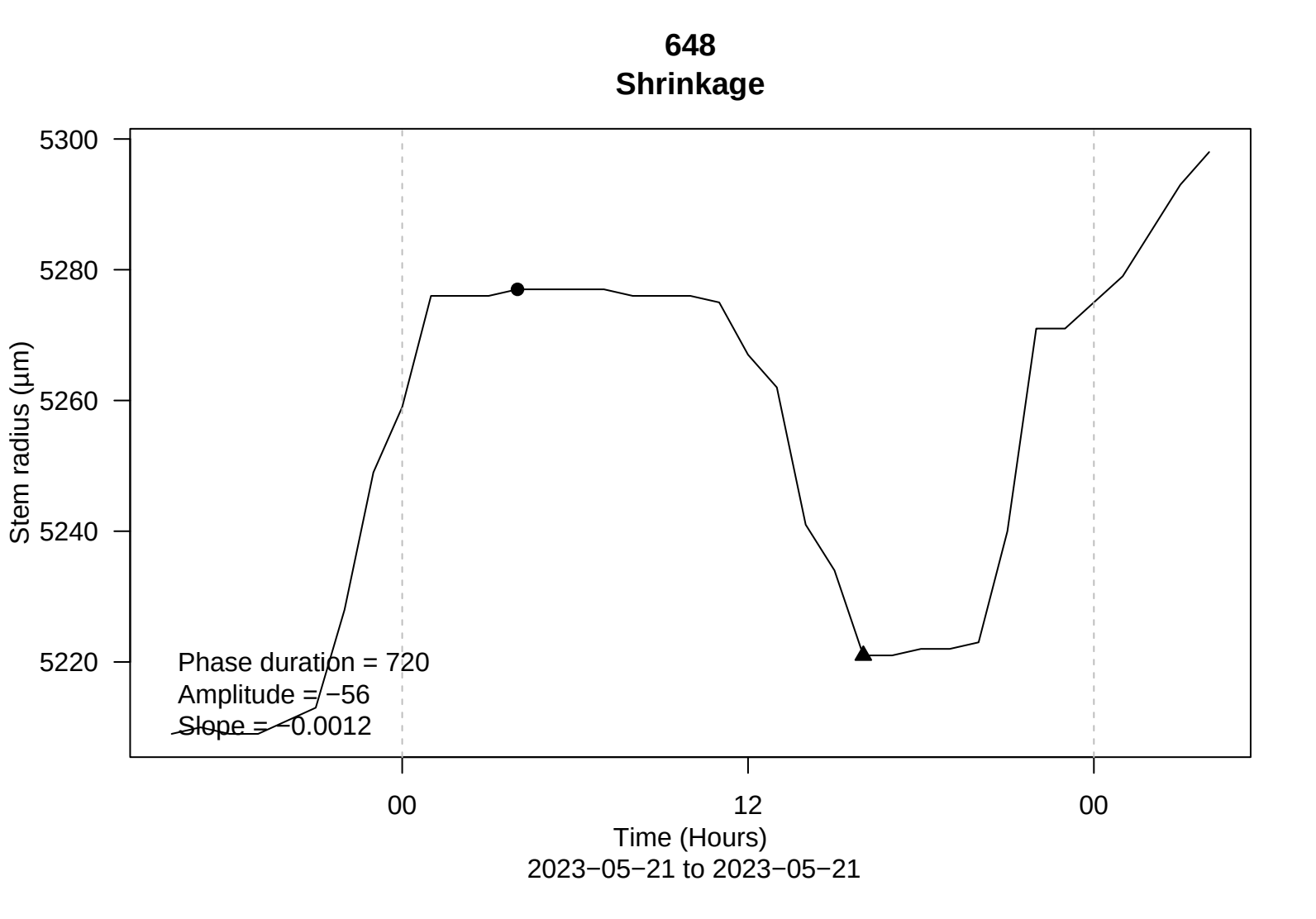

648
Expansion
5240
5220
5200
5180
5160
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−18 to 2023−05−19
Phase duration = 960
Amplitude = 67
Slope = 0.0014

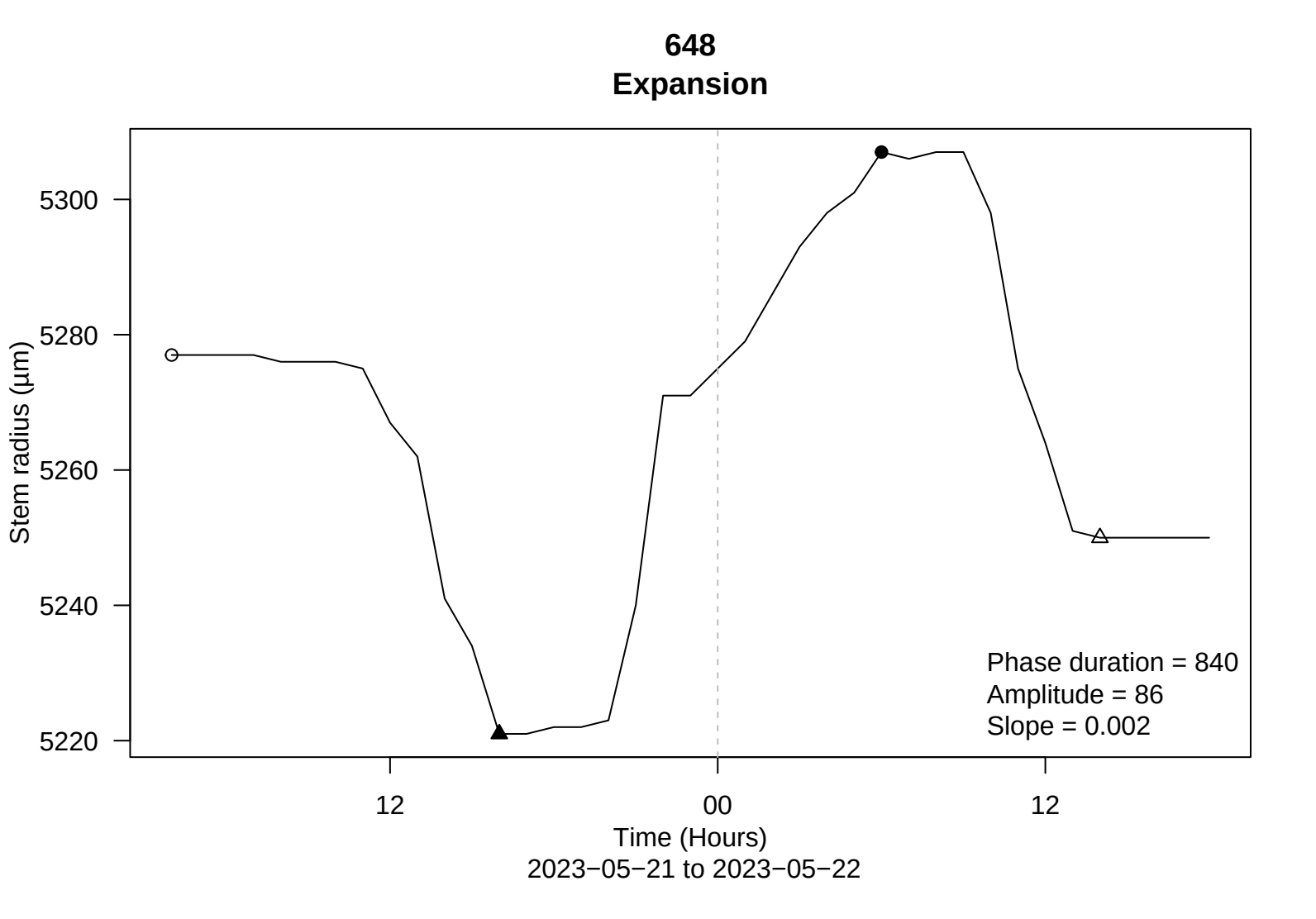

648
Shrinkage
Stem radius (µm)
5220
5210
5200
5190
5180
5170
5160
Phase duration = 360
Amplitude = −53
Slope = −0.0024
00
06
12
18
00
Time (Hours)
2023−05−19 to 2023−05−19

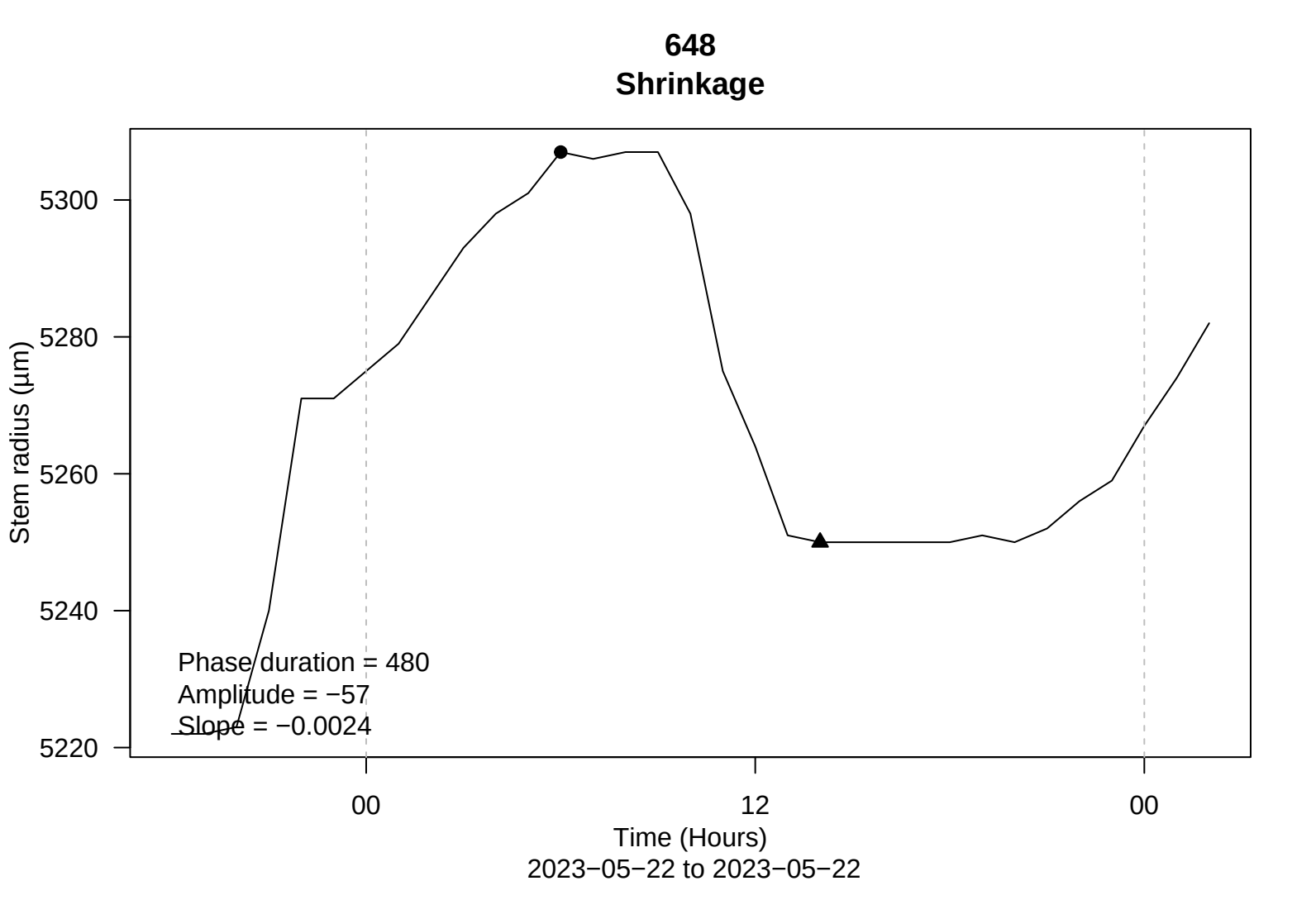

648
Expansion
5240
5220
5200
5180
Stem radius (µm)
Phase duration = 900
Amplitude = 85
Slope = 0.0017
12
00
12
Time (Hours)
2023−05−19 to 2023−05−20

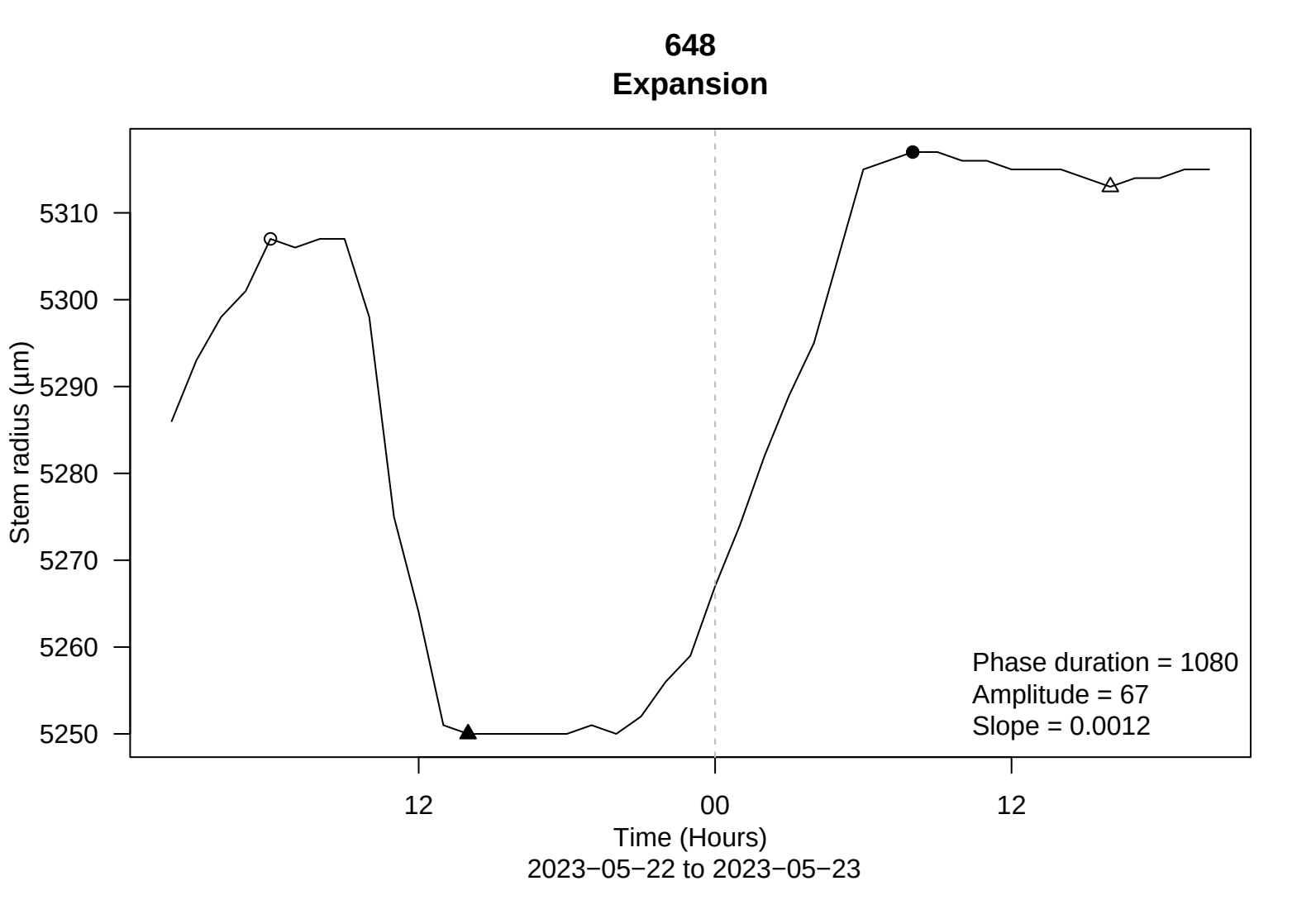

648
Shrinkage
5260
5240
5220
5200
5180
Stem radius (µm)
Phase duration = 360
Amplitude = −46
Slope = −0.0023
00
12
00
Time (Hours)
2023−05−20 to 2023−05−20

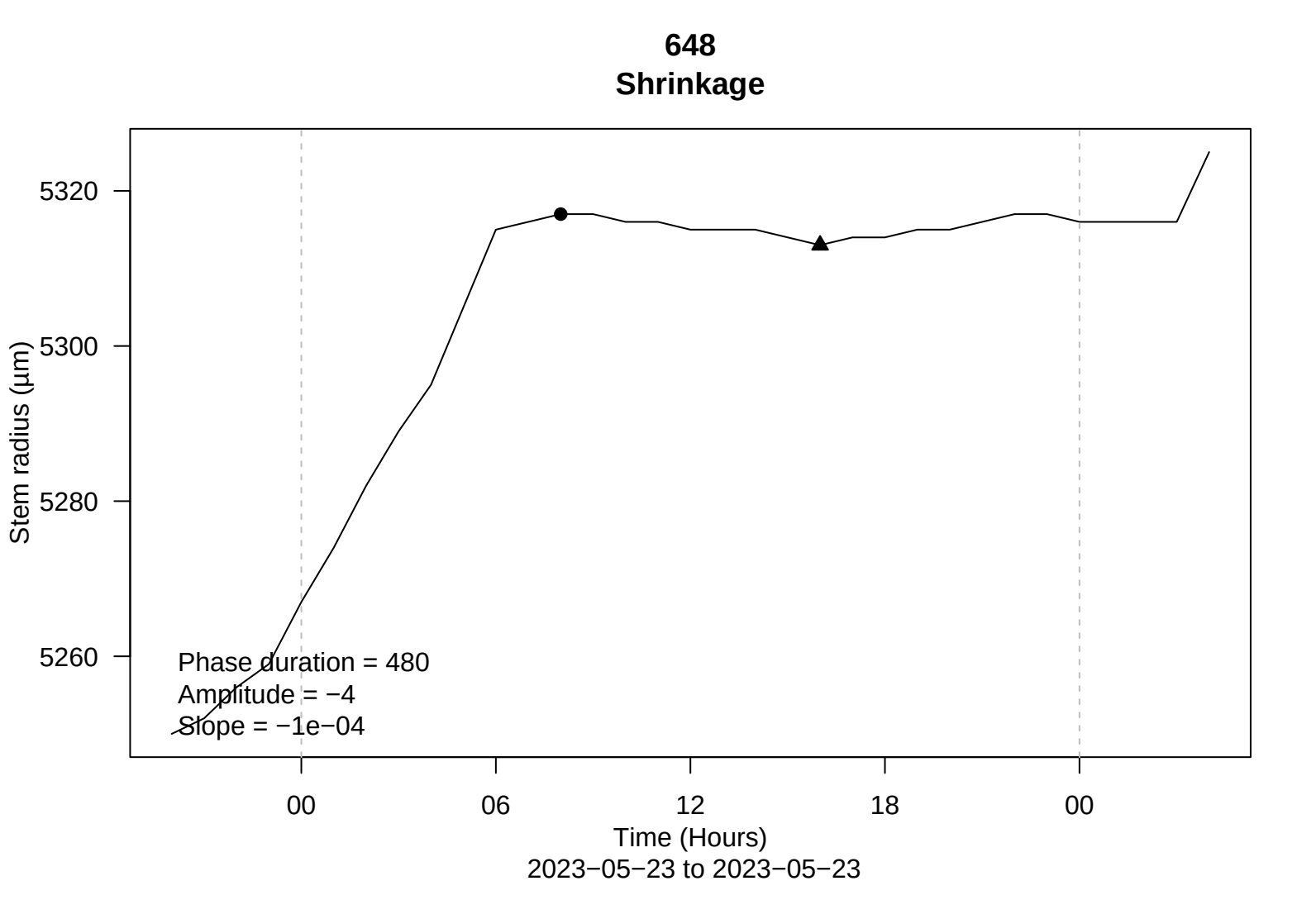

648
Expansion
5280
5260
5240
5220
5200
Stem radius (µm)
00
12
00
12
Time (Hours)
2023−05−20 to 2023−05−21
Phase duration = 960
Amplitude = 69
Slope = 0.0015

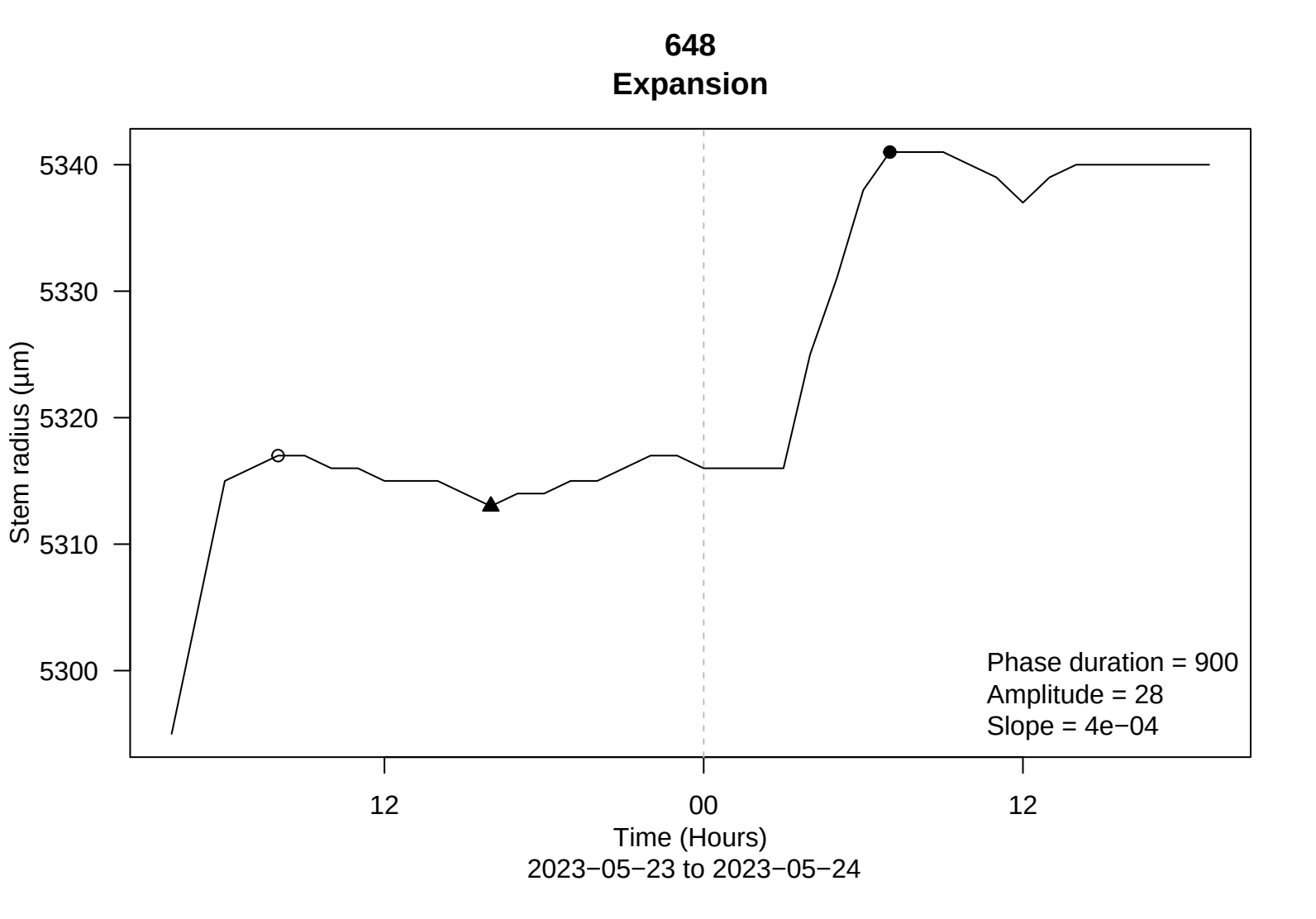

648
Shrinkage
5300
5280
5260
5240
5220
Stem radius (µm)
Phase duration = 720
Amplitude = −56
Slope = −0.0012
00
12
00
Time (Hours)
2023−05−21 to 2023−05−21

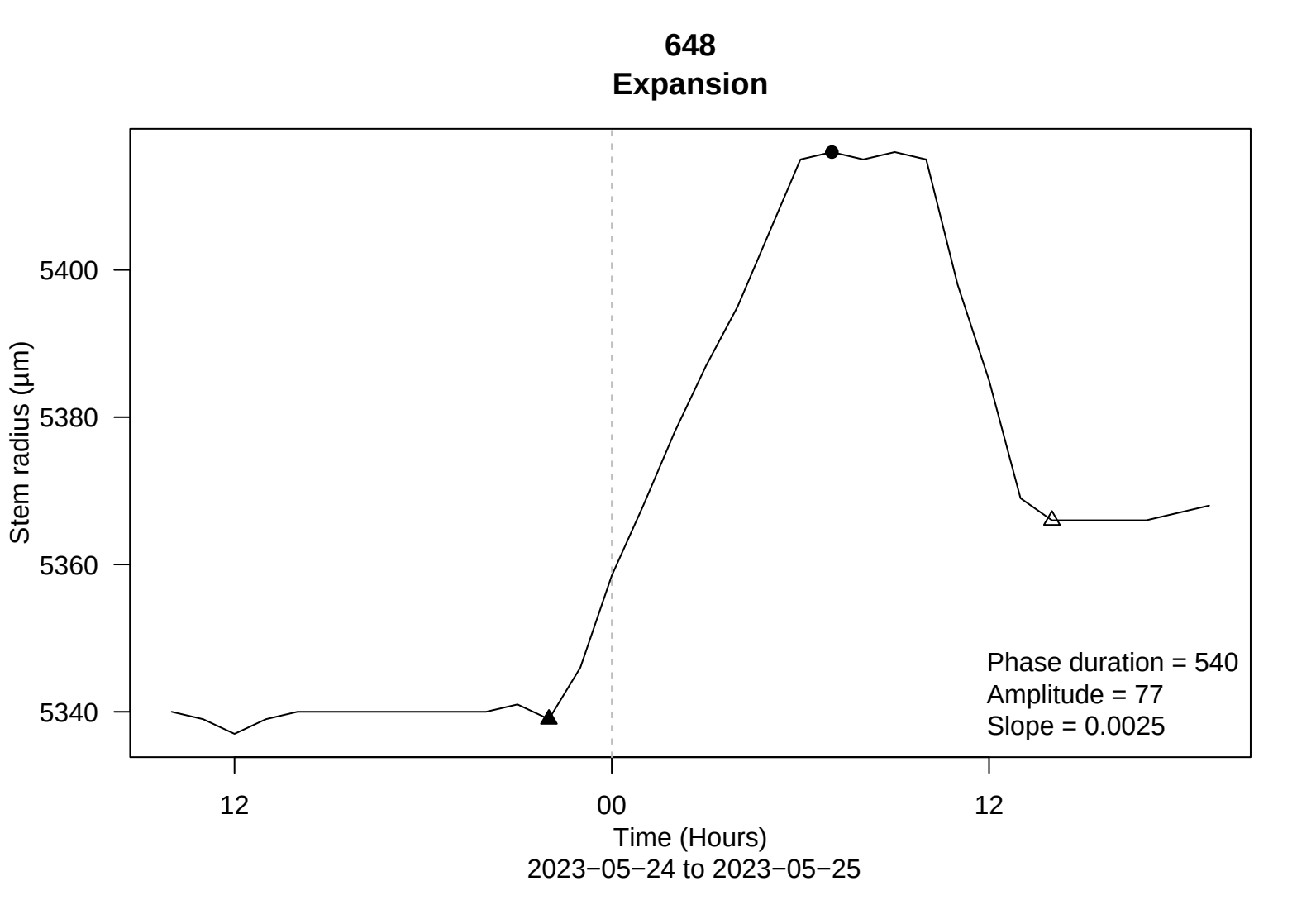

648
Expansion
5300
5280
5260
5240
5220
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−21 to 2023−05−22
Phase duration = 840
Amplitude = 86
Slope = 0.002

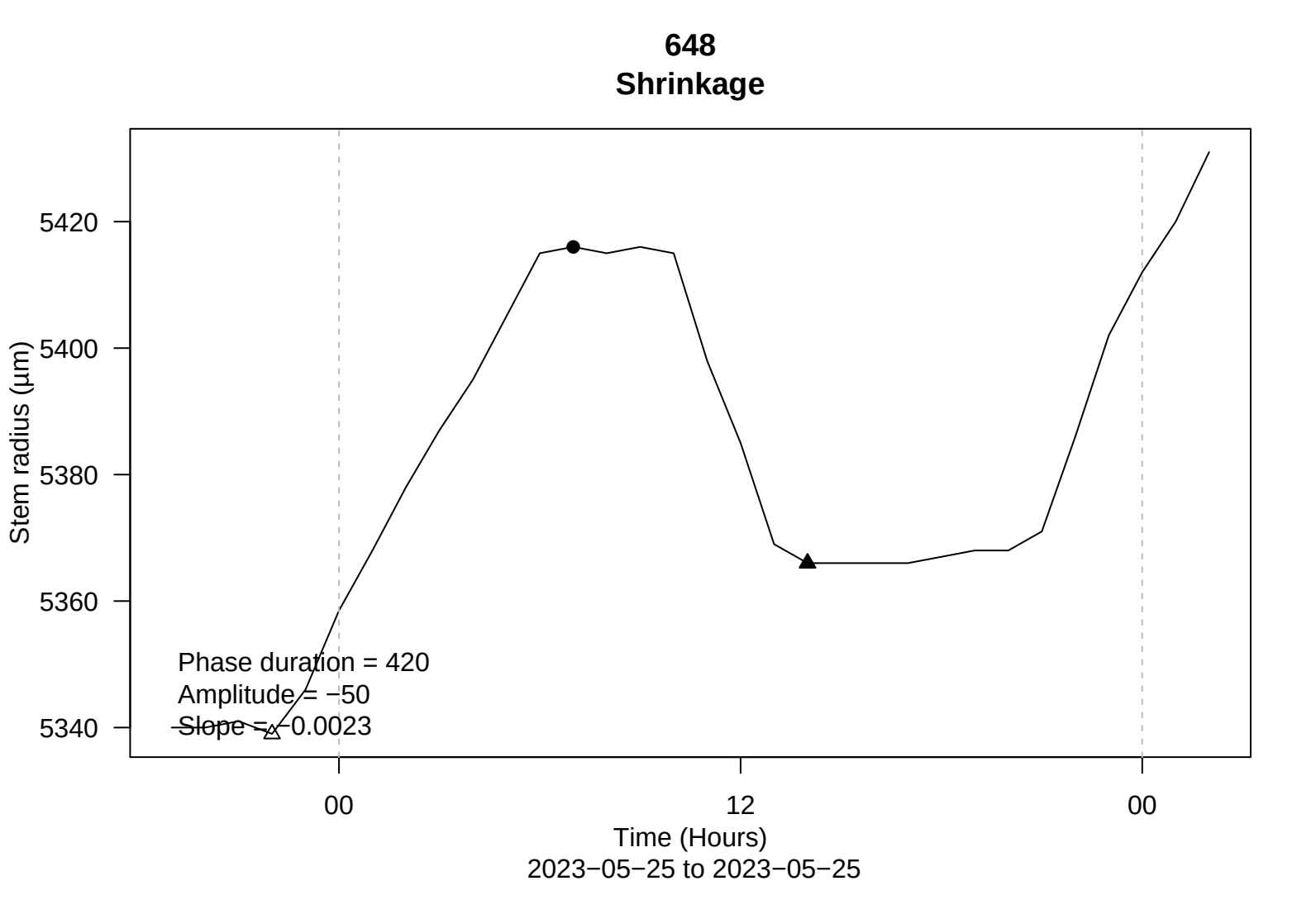

648
Shrinkage
5300
5280
5260
5240
5220
Stem radius (µm)
Phase duration = 480
Amplitude = −57
Slope = −0.0024
00
12
00
Time (Hours)
2023−05−22 to 2023−05−22

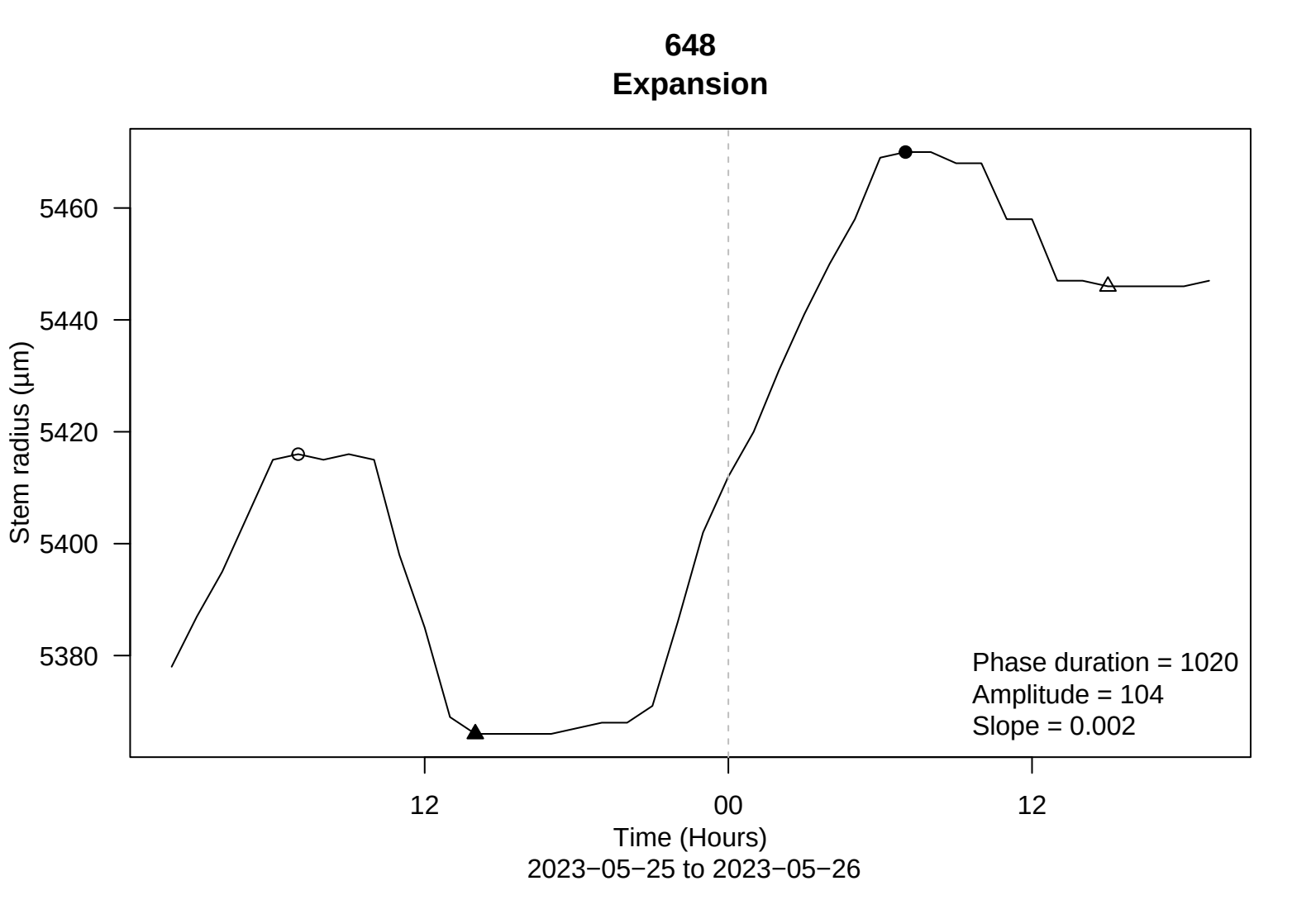

648
Expansion
5310
5300
5290
5280
5270
5260
5250
Stem radius (µm)
Phase duration = 1080
Amplitude = 67
Slope = 0.0012
12
00
12
Time (Hours)
2023−05−22 to 2023−05−23

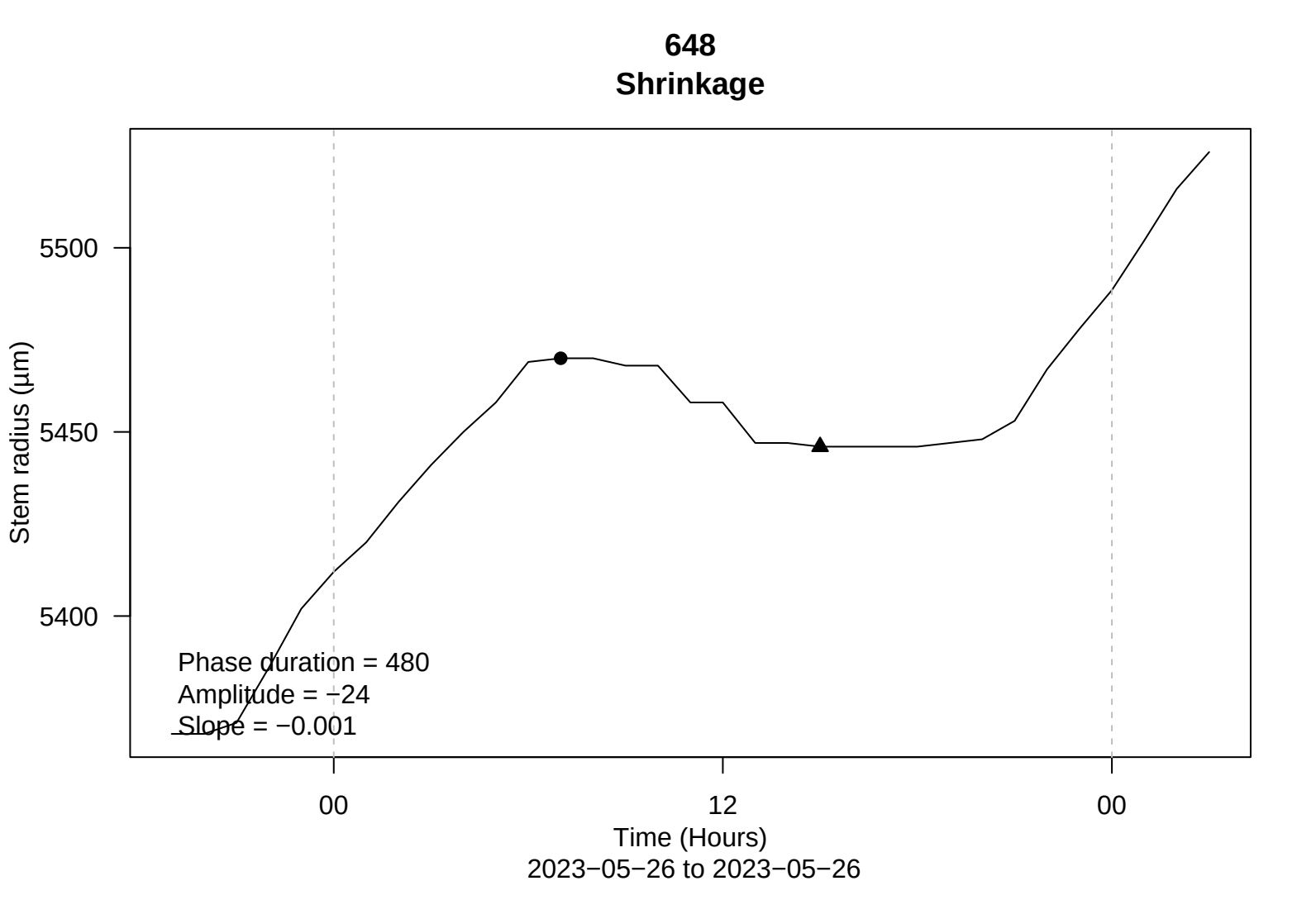

648
Shrinkage
5320
5300
5280
5260
Stem radius (µm)
Phase duration = 480
Amplitude = −4
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−05−23 to 2023−05−23

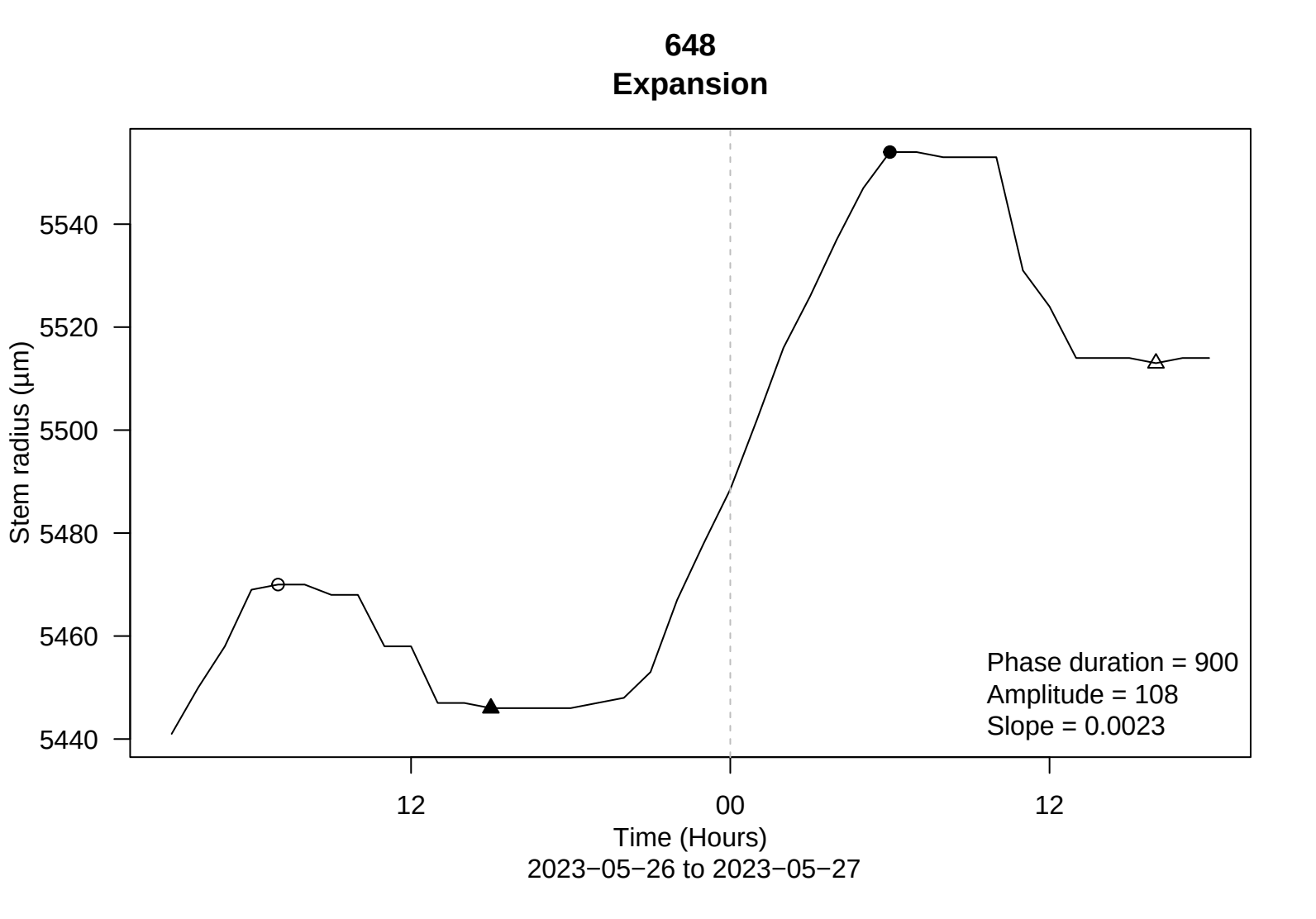

648
Expansion
5340
5330
5320
5310
5300
Stem radius (µm)
Phase duration = 900
Amplitude = 28
Slope = 4e−04
12
00
12
Time (Hours)
2023−05−23 to 2023−05−24

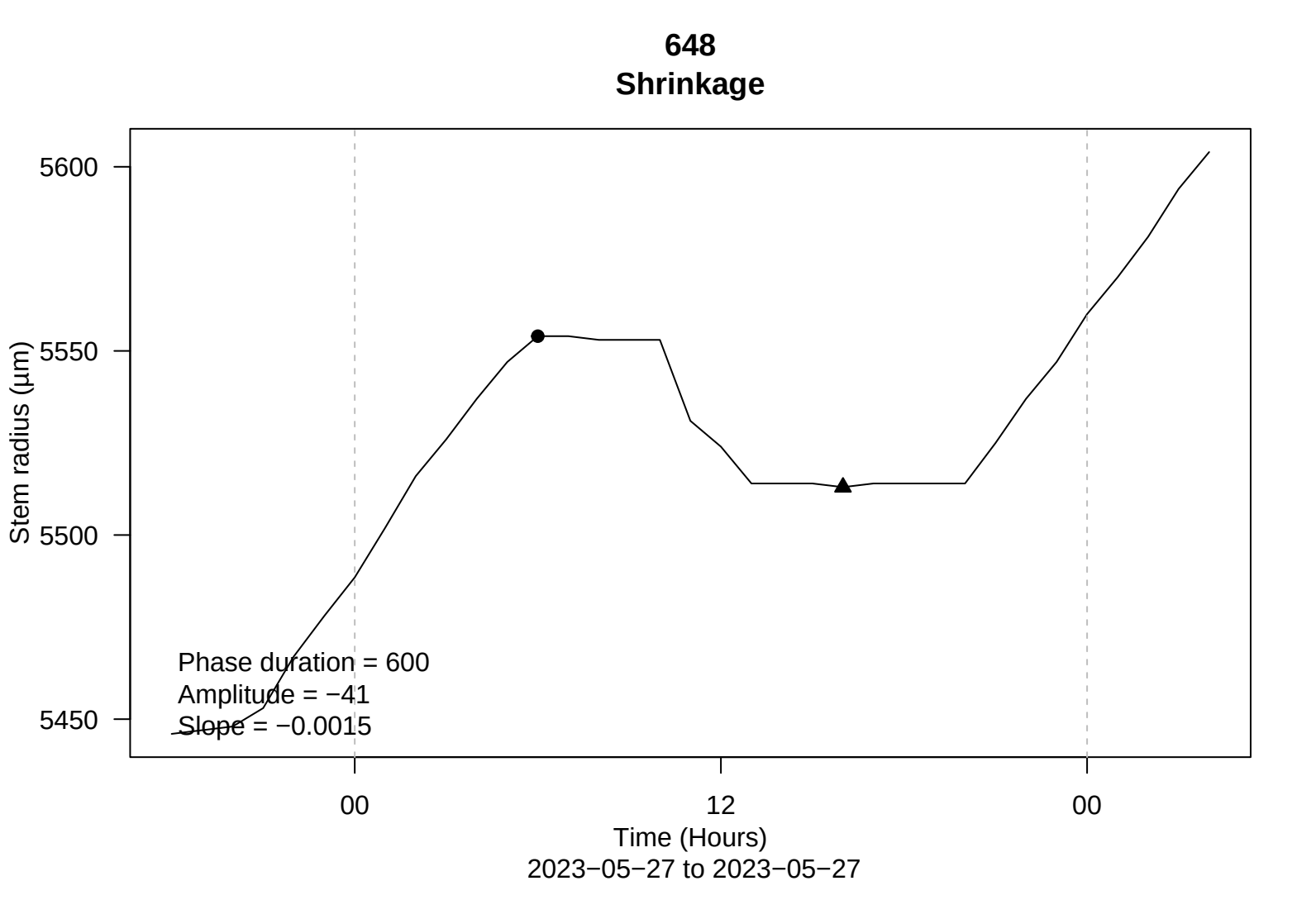

648
Expansion
5400
5380
5360
5340
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−24 to 2023−05−25
Phase duration = 540
Amplitude = 77
Slope = 0.0025

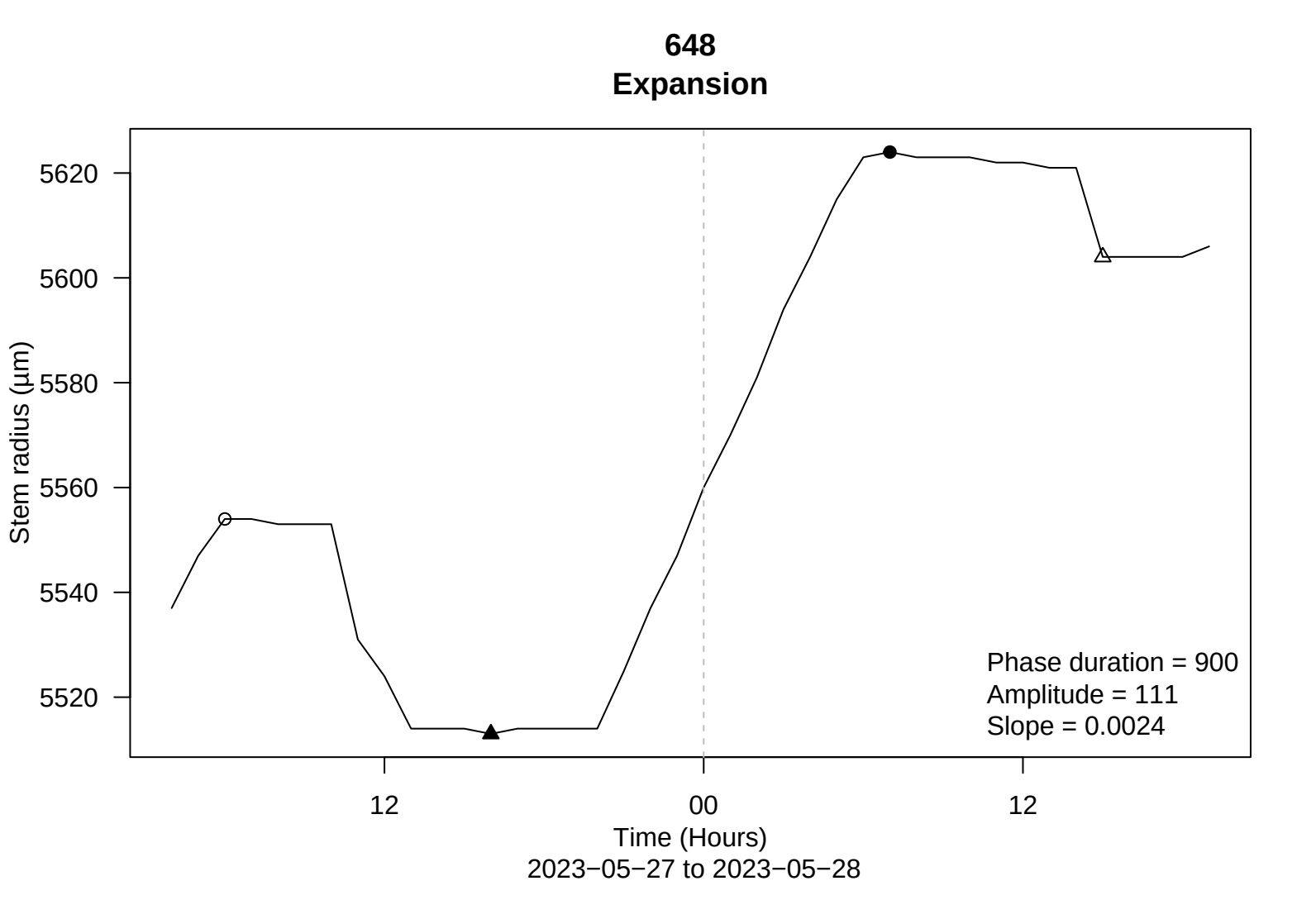

648
Shrinkage
5420
5400
5380
5360
5340
Stem radius (µm)
Phase duration = 420
Amplitude = −50
Slope = −0.0023
00
12
00
Time (Hours)
2023−05−25 to 2023−05−25

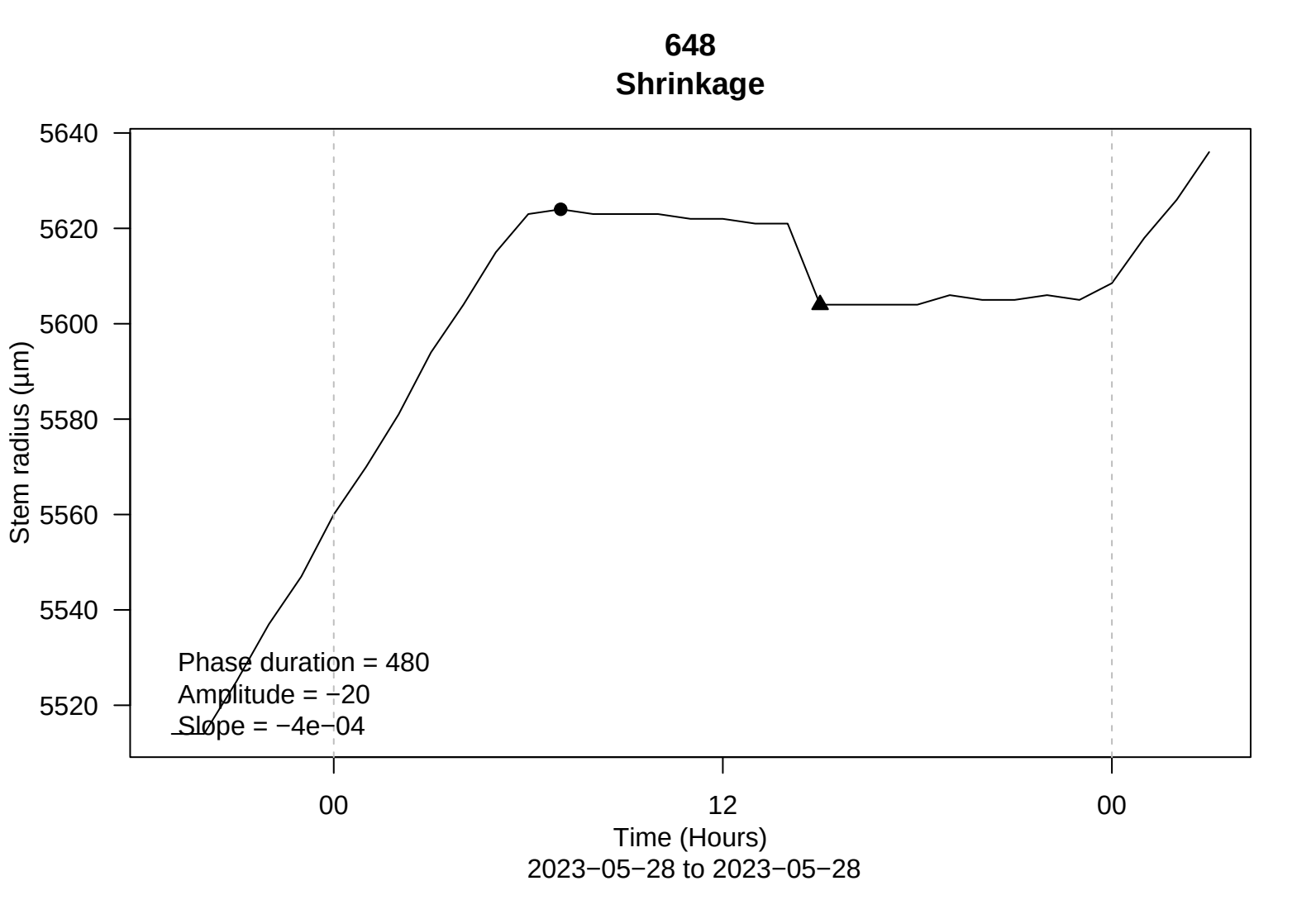

648
Expansion
5460
5440
5420
5400
5380
Stem radius (µm)
Phase duration = 1020
Amplitude = 104
Slope = 0.002
12
00
12
Time (Hours)
2023−05−25 to 2023−05−26

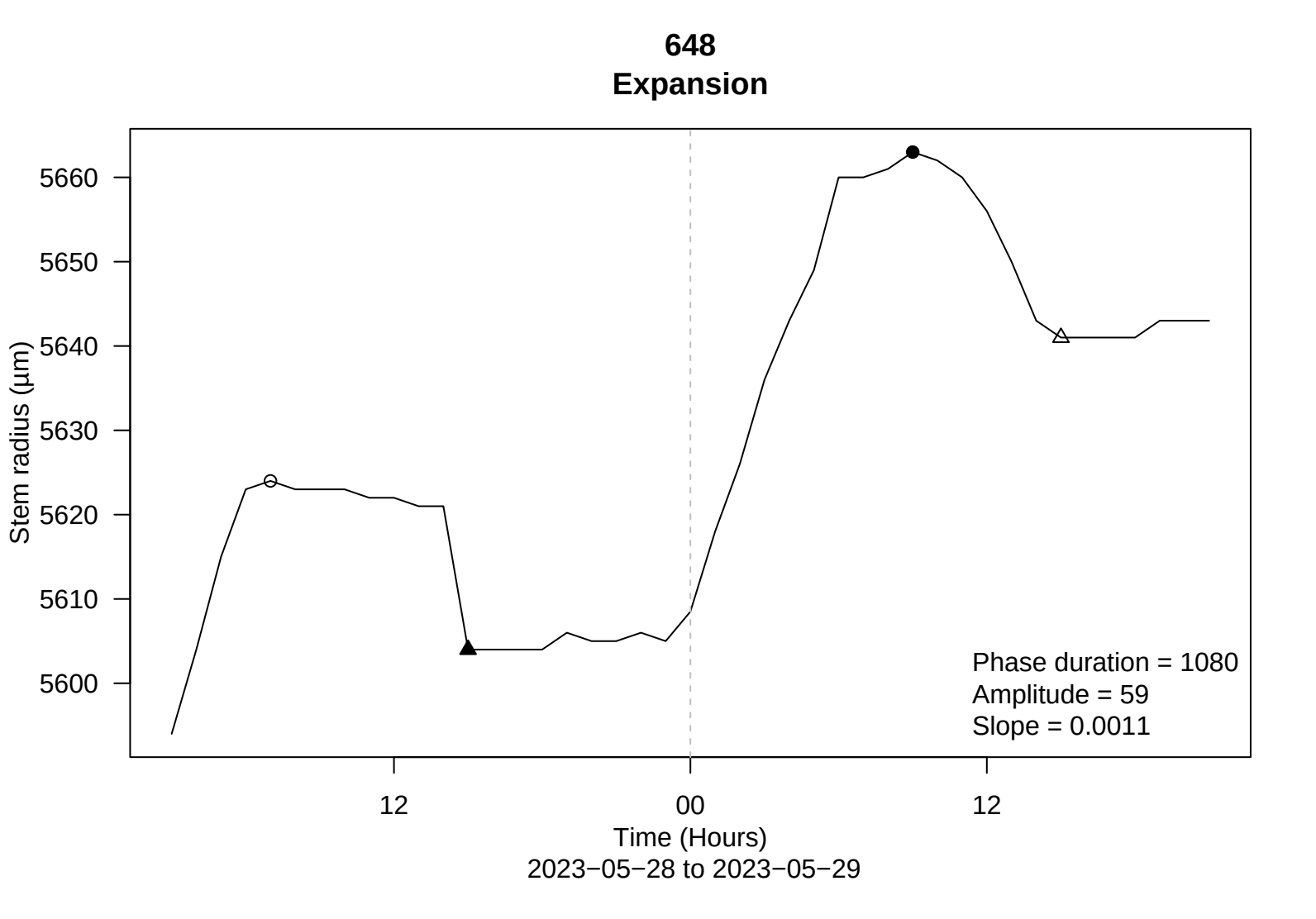

648
Shrinkage
5500
5450
5400
Stem radius (µm)
Phase duration = 480
Amplitude = −24
Slope = −0.001
00
12
00
Time (Hours)
2023−05−26 to 2023−05−26

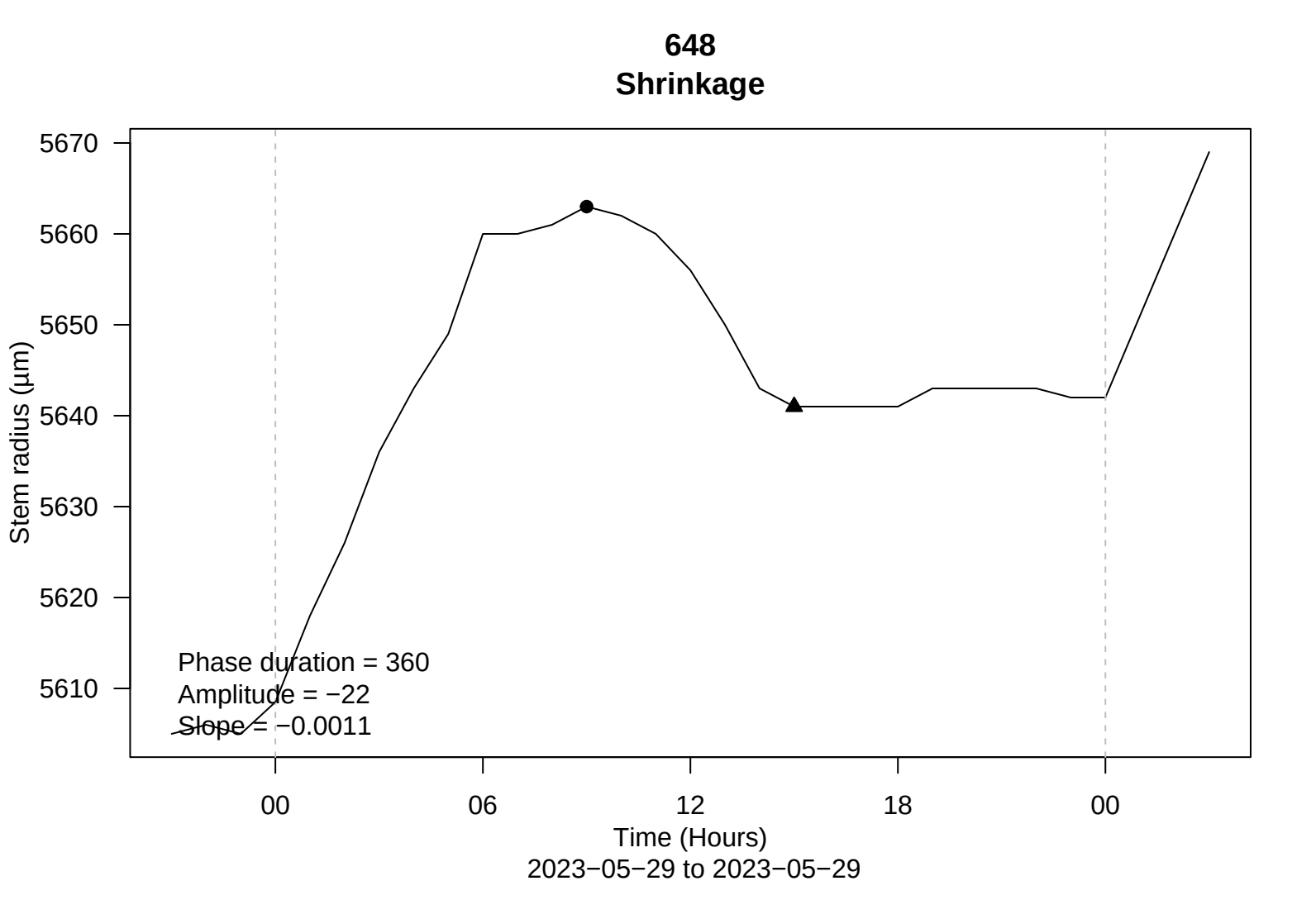

648
Expansion
5540
5520
5500
5480
5460
5440
Stem radius (µm)
12
00
12
Time (Hours)
2023−05−26 to 2023−05−27
Phase duration = 900
Amplitude = 108
Slope = 0.0023

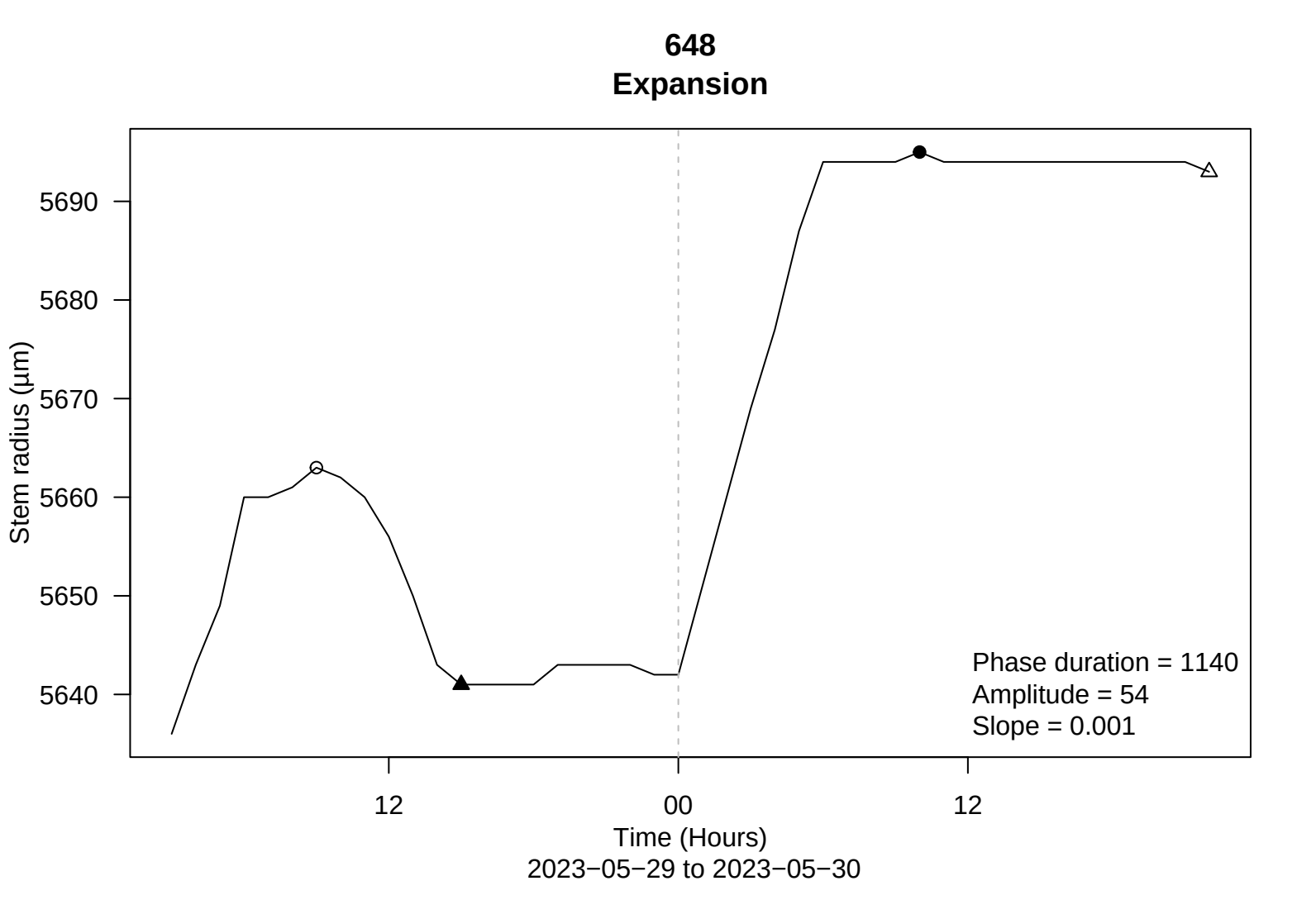

648
Shrinkage
5600
5550
5500
5450
Stem radius (µm)
Phase duration = 600
Amplitude = −41
Slope = −0.0015
00
12
00
Time (Hours)
2023−05−27 to 2023−05−27

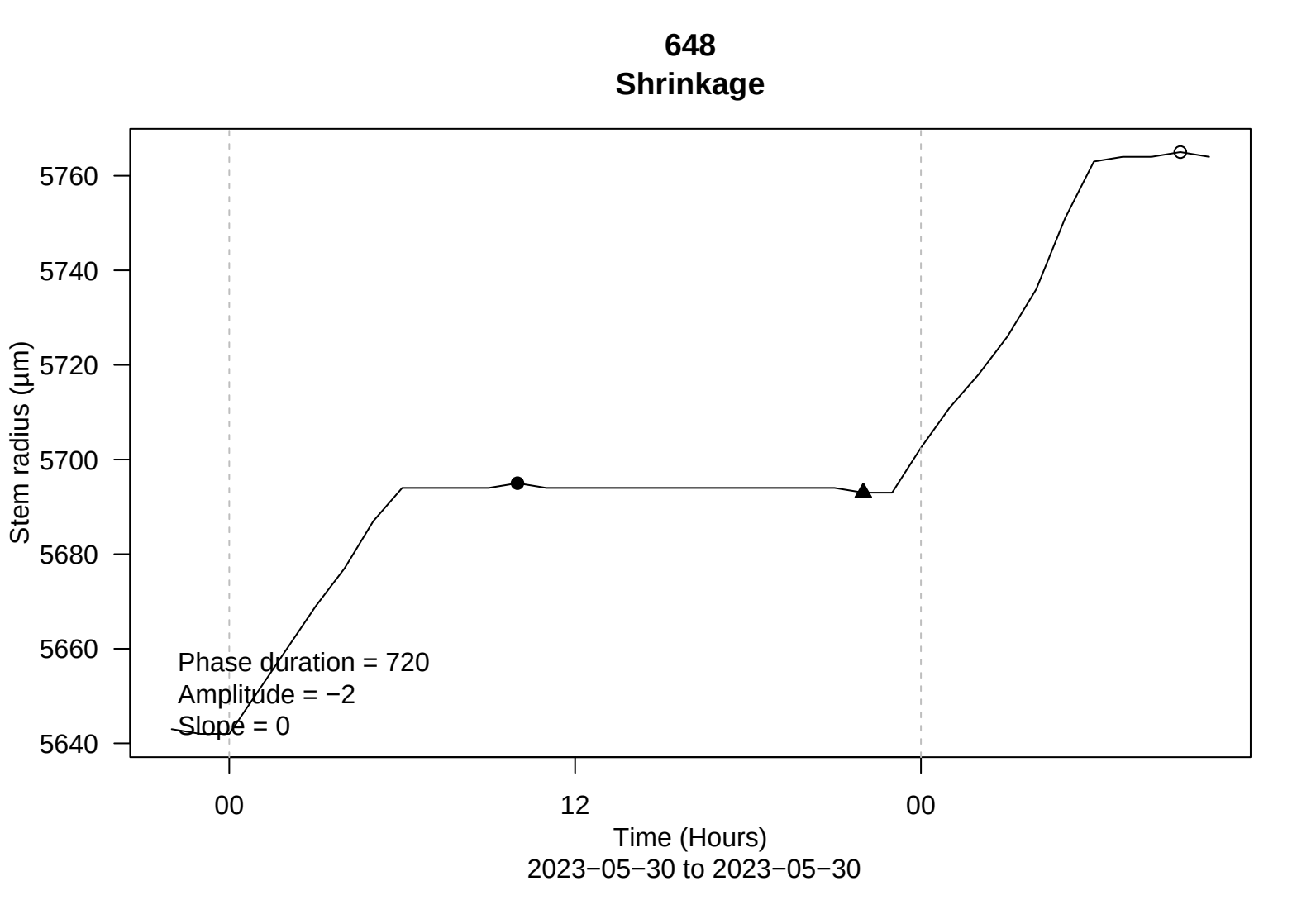

648
Expansion
5620
5600
5580
5560
5540
5520
Stem radius (µm)
Phase duration = 900
Amplitude = 111
Slope = 0.0024
12
00
12
Time (Hours)
2023−05−27 to 2023−05−28

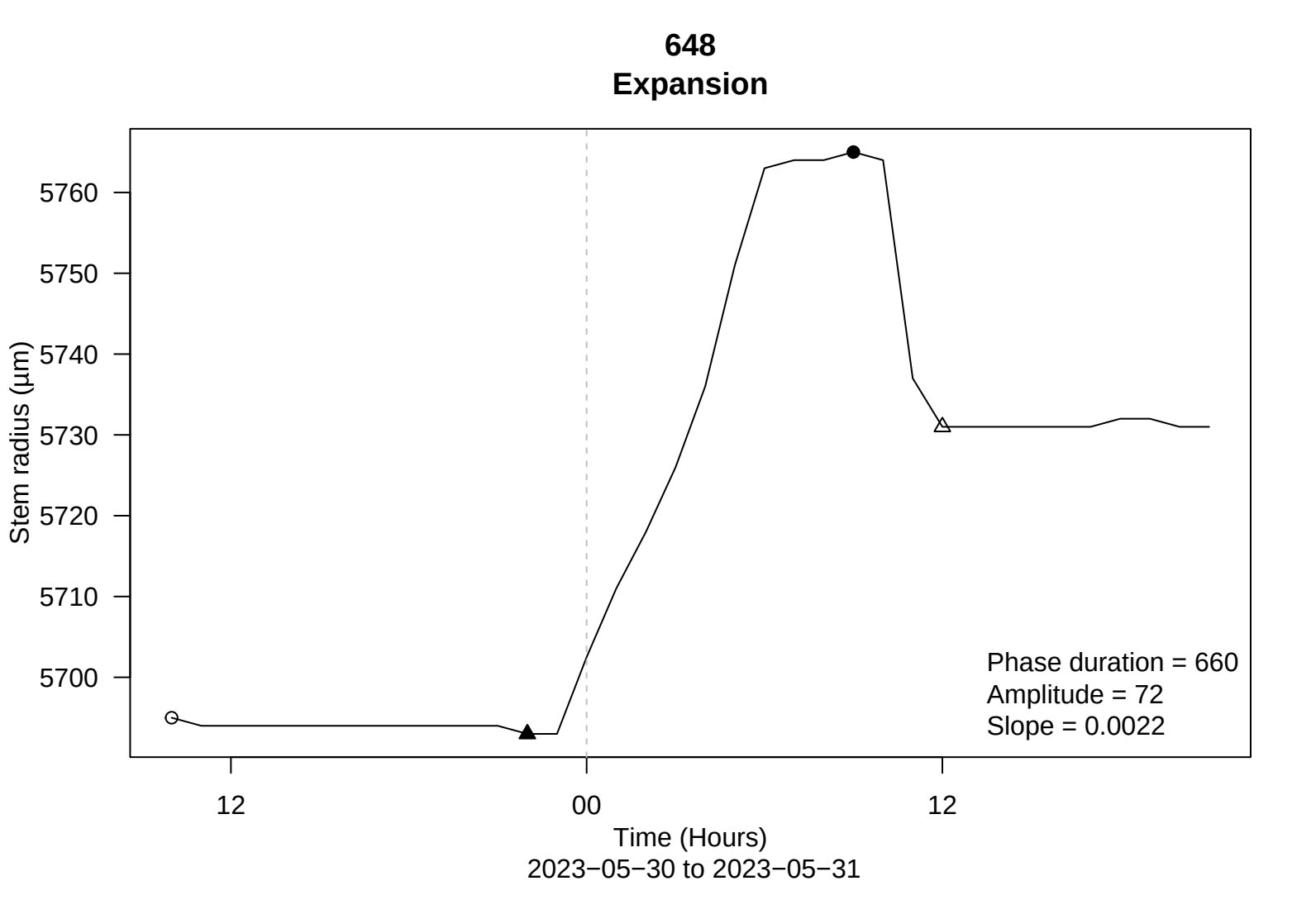

648
Shrinkage
5640
5620
5600
5580
5560
5540
5520
Stem radius (µm)
Phase duration = 480
Amplitude = −20
Slope = −4e−04
00
12
00
Time (Hours)
2023−05−28 to 2023−05−28

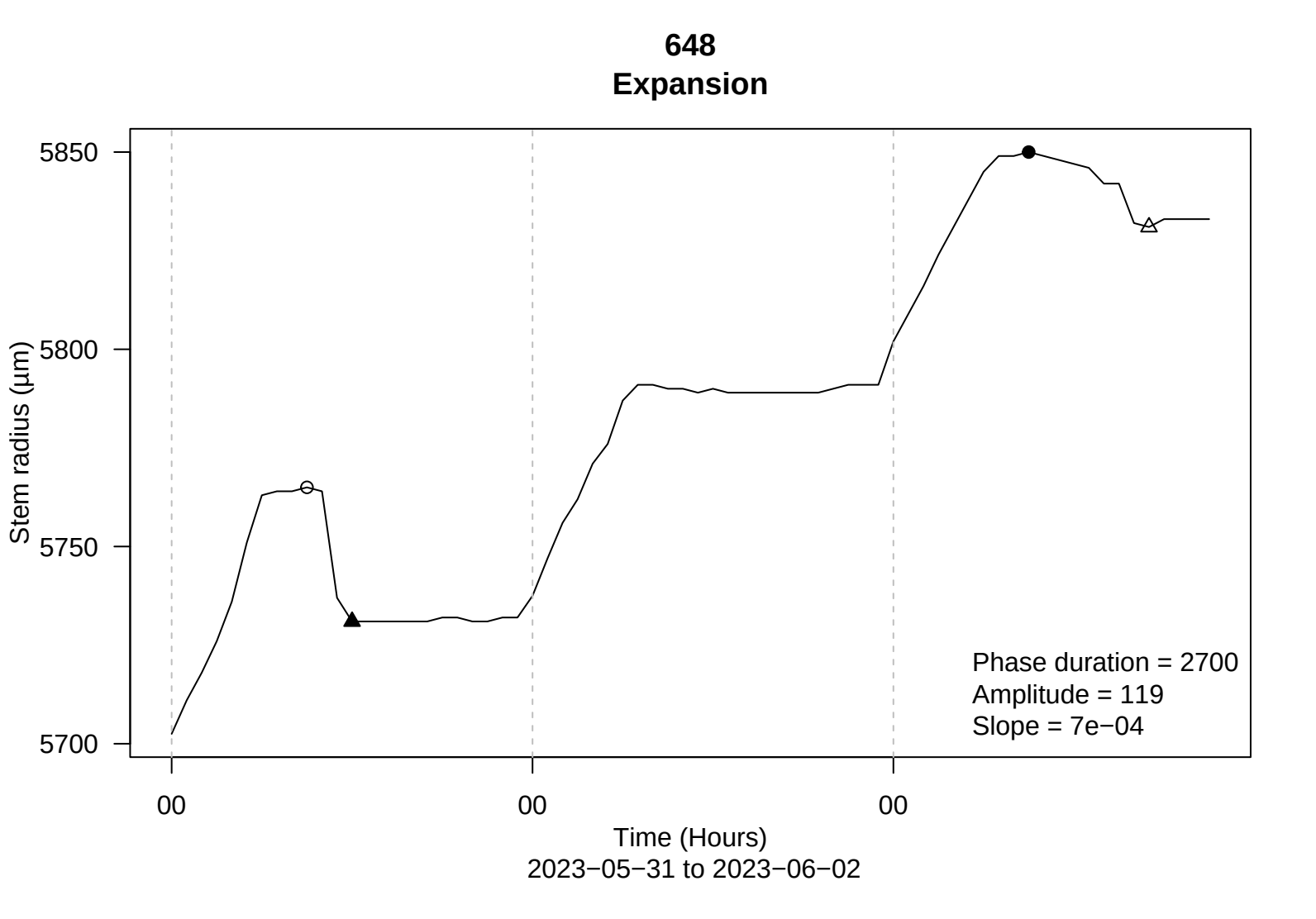

648
Expansion
Stem radius (µm)
5660
5650
5640
5630
5620
5610
5600
12
00
12
Time (Hours)
2023−05−28 to 2023−05−29
Phase duration = 1080
Amplitude = 59
Slope = 0.0011

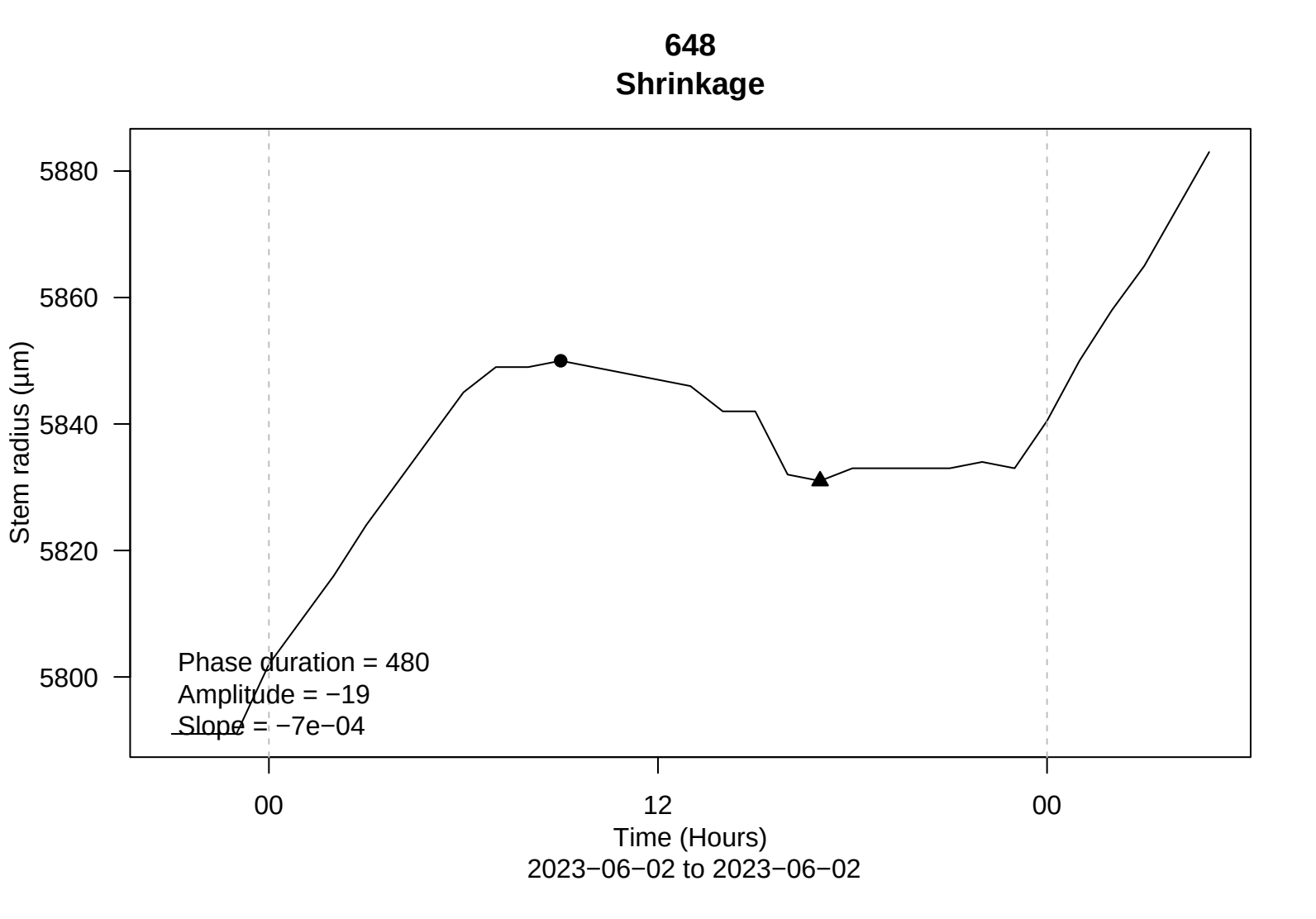

648
Shrinkage
5670
5660
5650
5640
5630
5620
5610
Stem radius (µm)
Phase duration = 360
Amplitude = −22
Slope = −0.0011
00
06
12
18
00
Time (Hours)
2023−05−29 to 2023−05−29

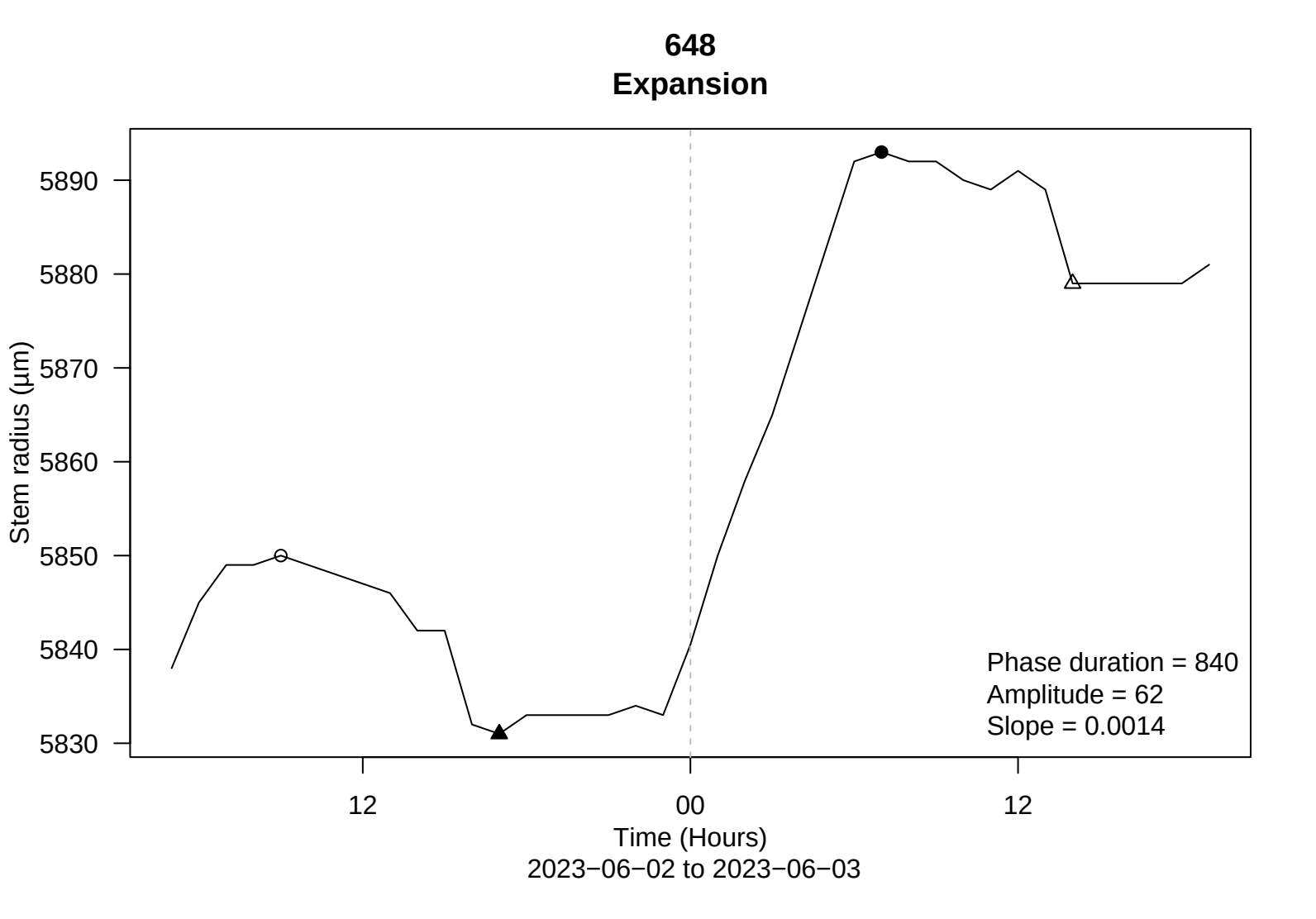

648
Expansion
5690
5680
5670
5660
5650
5640
Stem radius (µm)
Phase duration = 1140
Amplitude = 54
Slope = 0.001
12
00
12
Time (Hours)
2023−05−29 to 2023−05−30

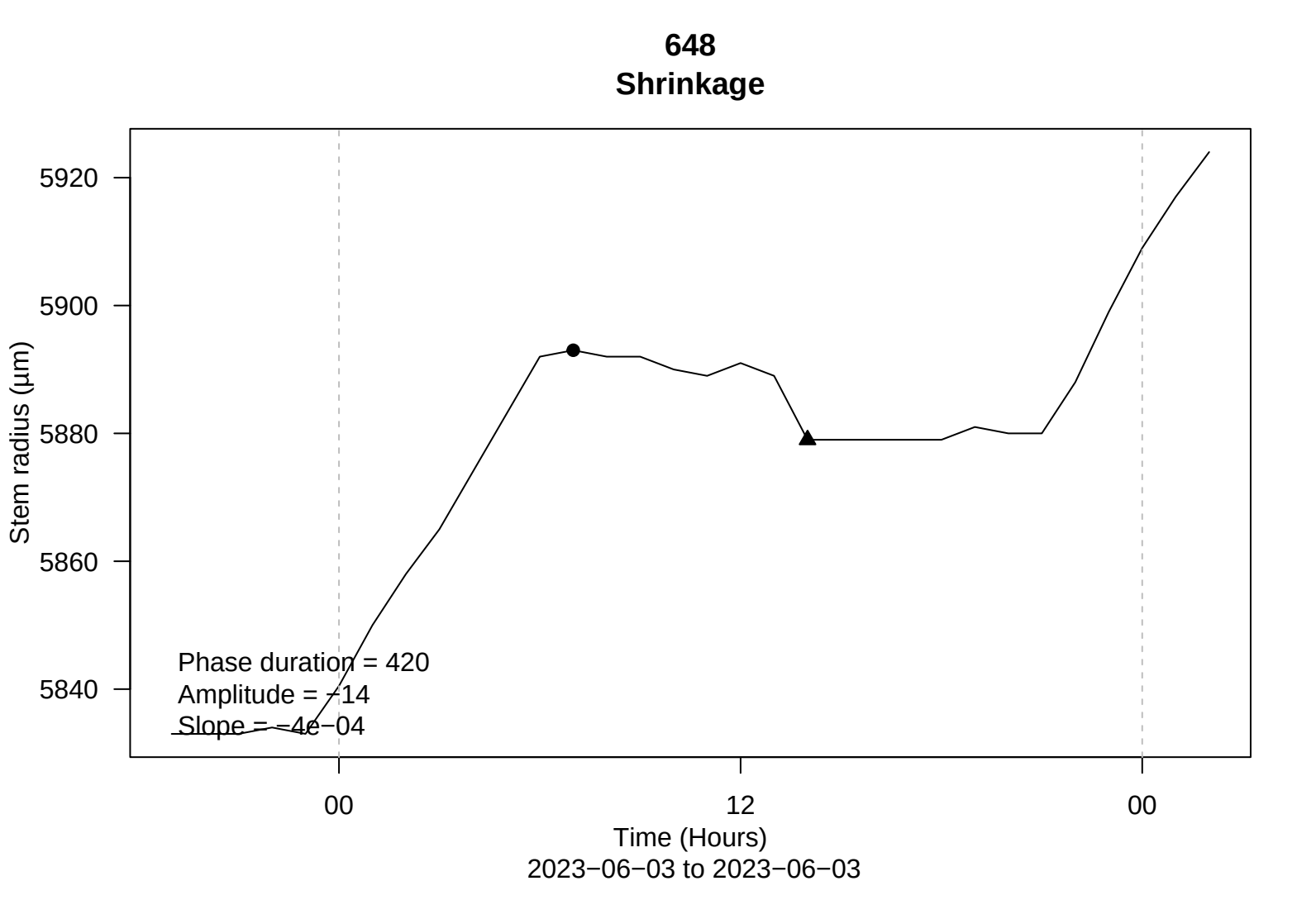

648
Shrinkage
Stem radius (µm)
5760
5740
5720
5700
5680
5660
5640
Phase duration = 720
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−05−30 to 2023−05−30

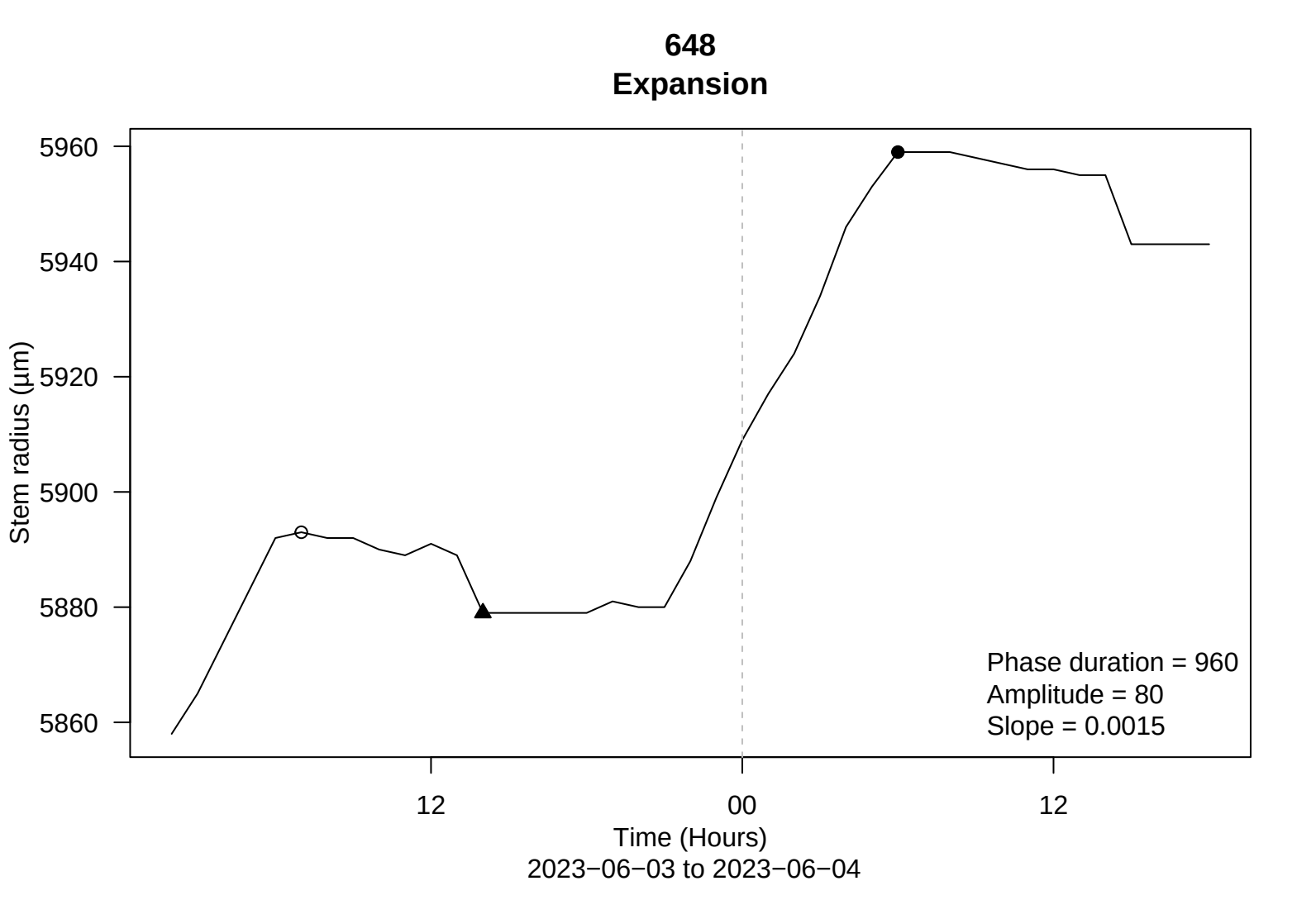

648
Expansion
5760
5750
5740
5730
5720
5710
5700
Stem radius (µm)
Phase duration = 660
Amplitude = 72
Slope = 0.0022
12
00
12
Time (Hours)
2023−05−30 to 2023−05−31

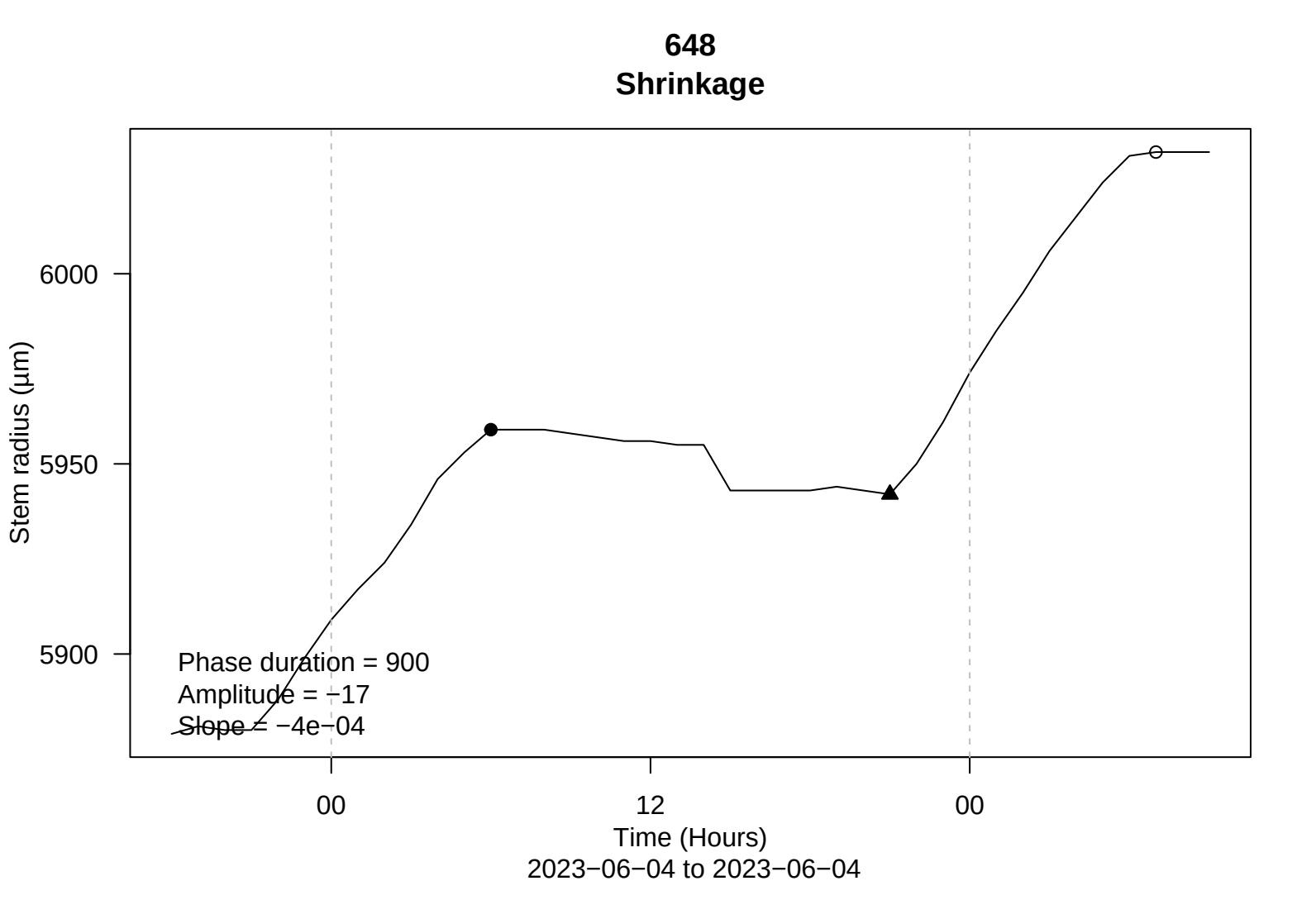

648
Expansion
5850
5800
5750
5700
Stem radius (µm)
Phase duration = 2700
Amplitude = 119
Slope = 7e−04
00
00
00
Time (Hours)
2023−05−31 to 2023−06−02

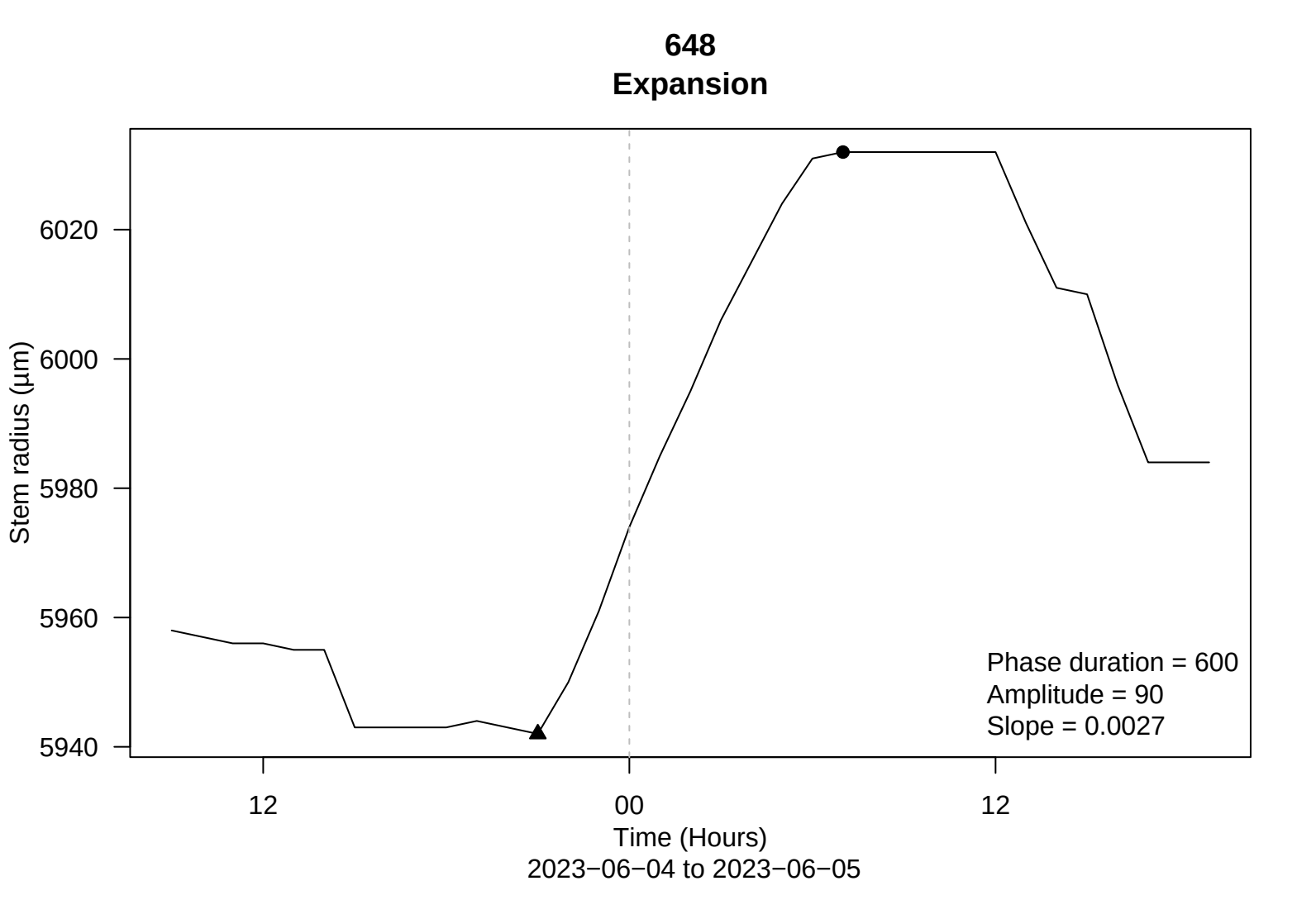

648
Shrinkage
5880
5860
5840
5820
5800
Stem radius (µm)
Phase duration = 480
Amplitude = −19
Slope = −7e−04
00
12
00
Time (Hours)
2023−06−02 to 2023−06−02

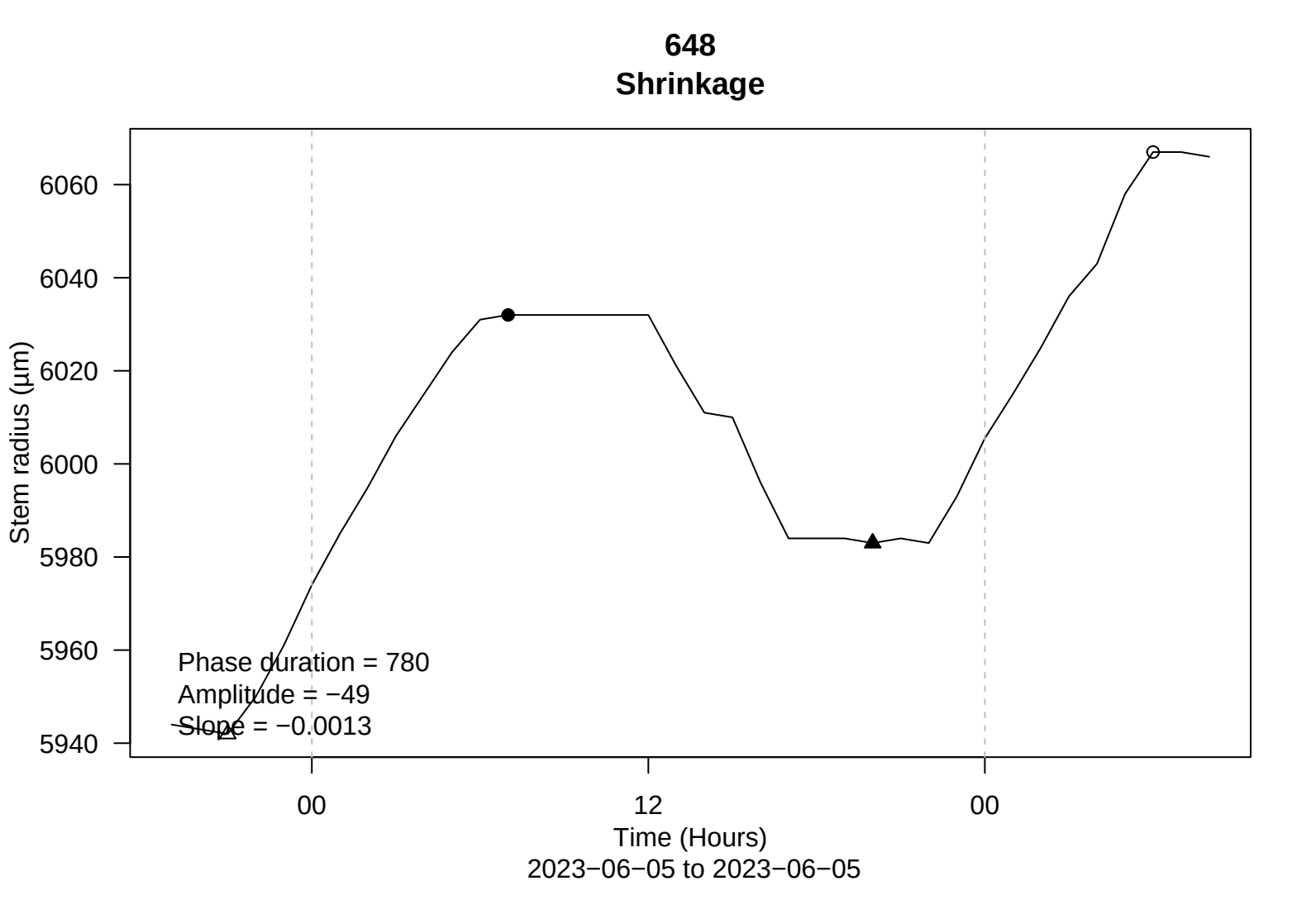

648
Expansion
5890
5880
5870
5860
5850
5840
5830
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−02 to 2023−06−03
Phase duration = 840
Amplitude = 62
Slope = 0.0014

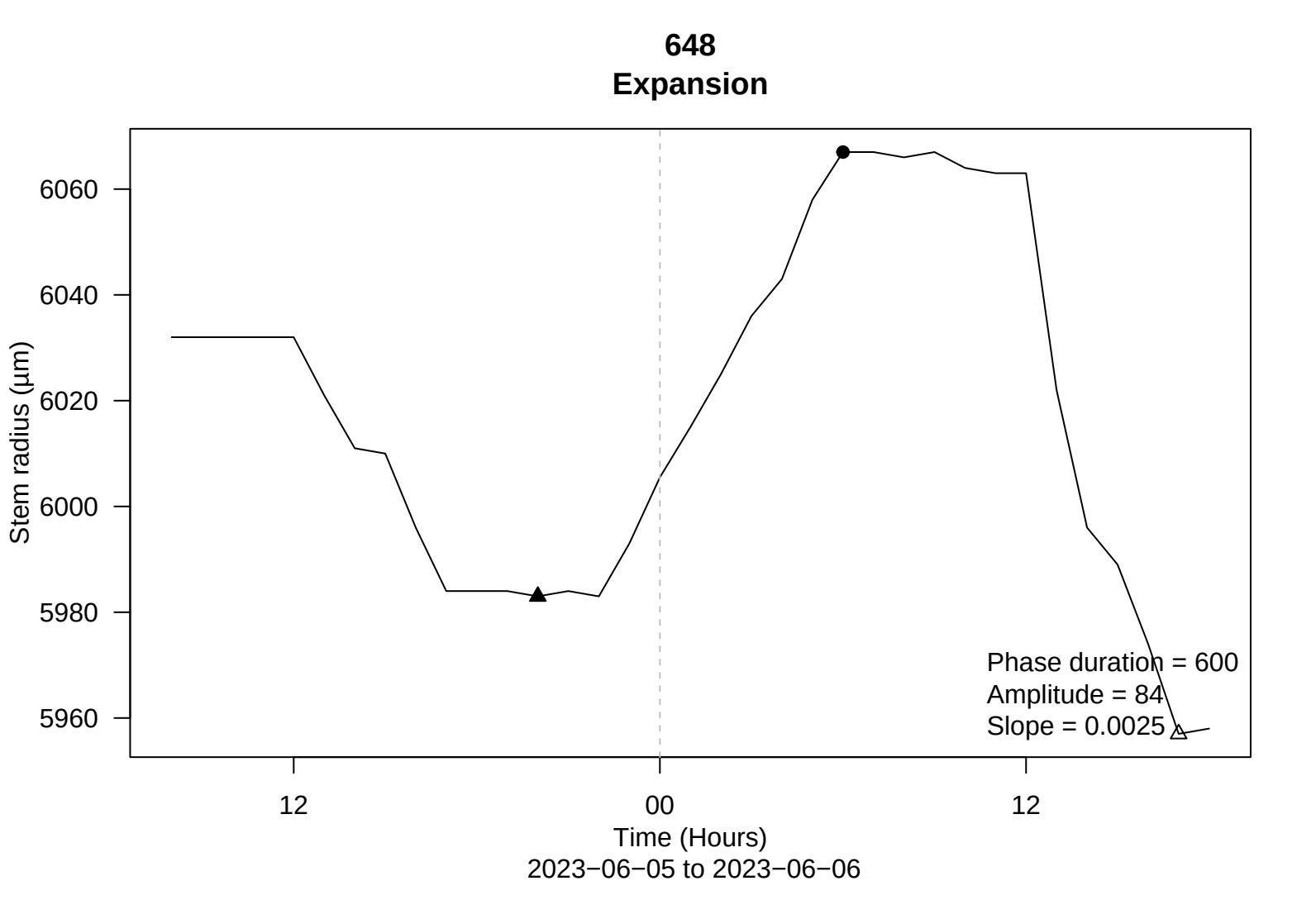

648
Shrinkage
5920
5900
5880
5860
5840
Stem radius (µm)
Phase duration = 420
Amplitude = −14
Slope = −4e−04
00
12
00
Time (Hours)
2023−06−03 to 2023−06−03

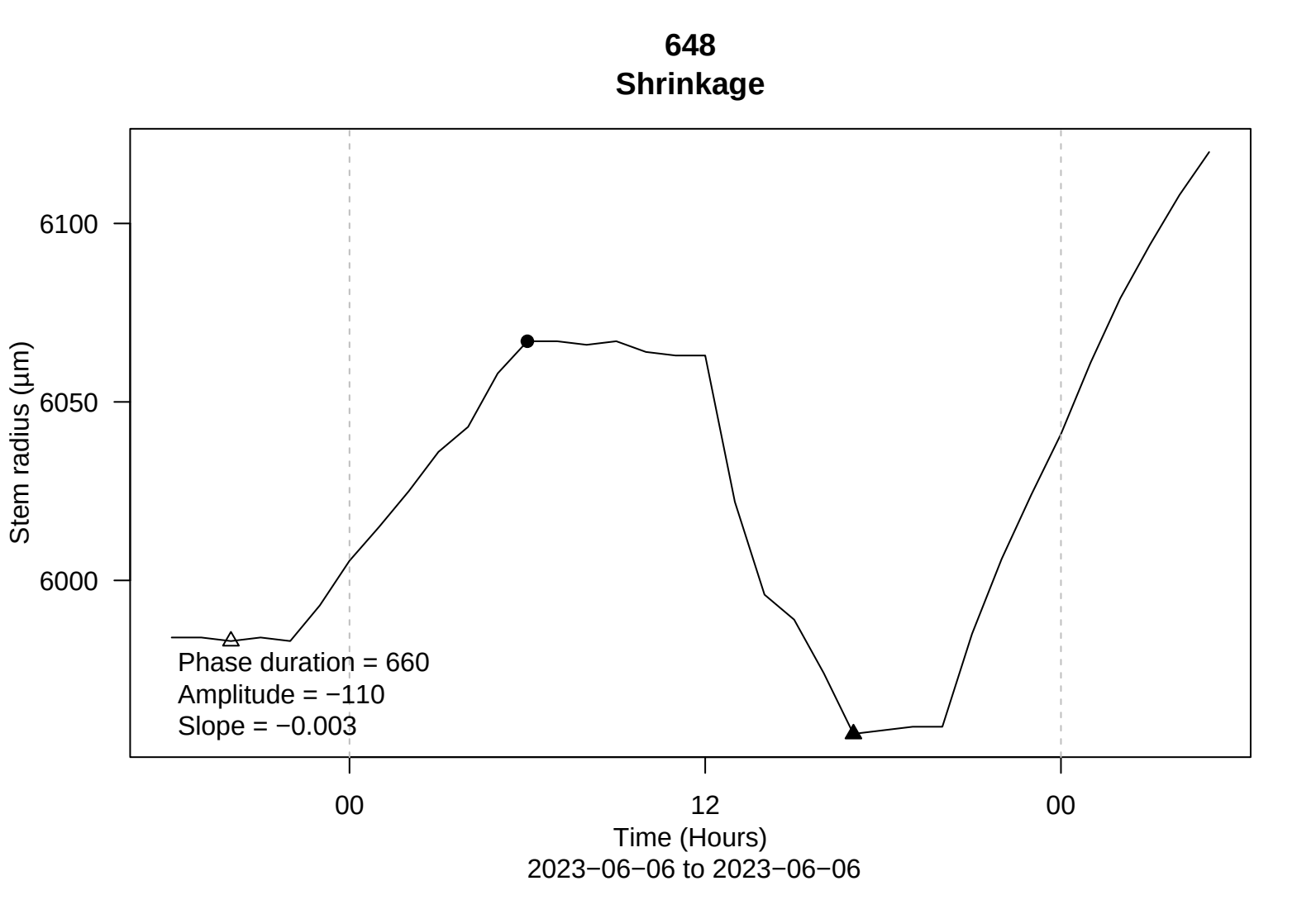

648
Expansion
5960
5940
5920
5900
5880
5860
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−03 to 2023−06−04
Phase duration = 960
Amplitude = 80
Slope = 0.0015

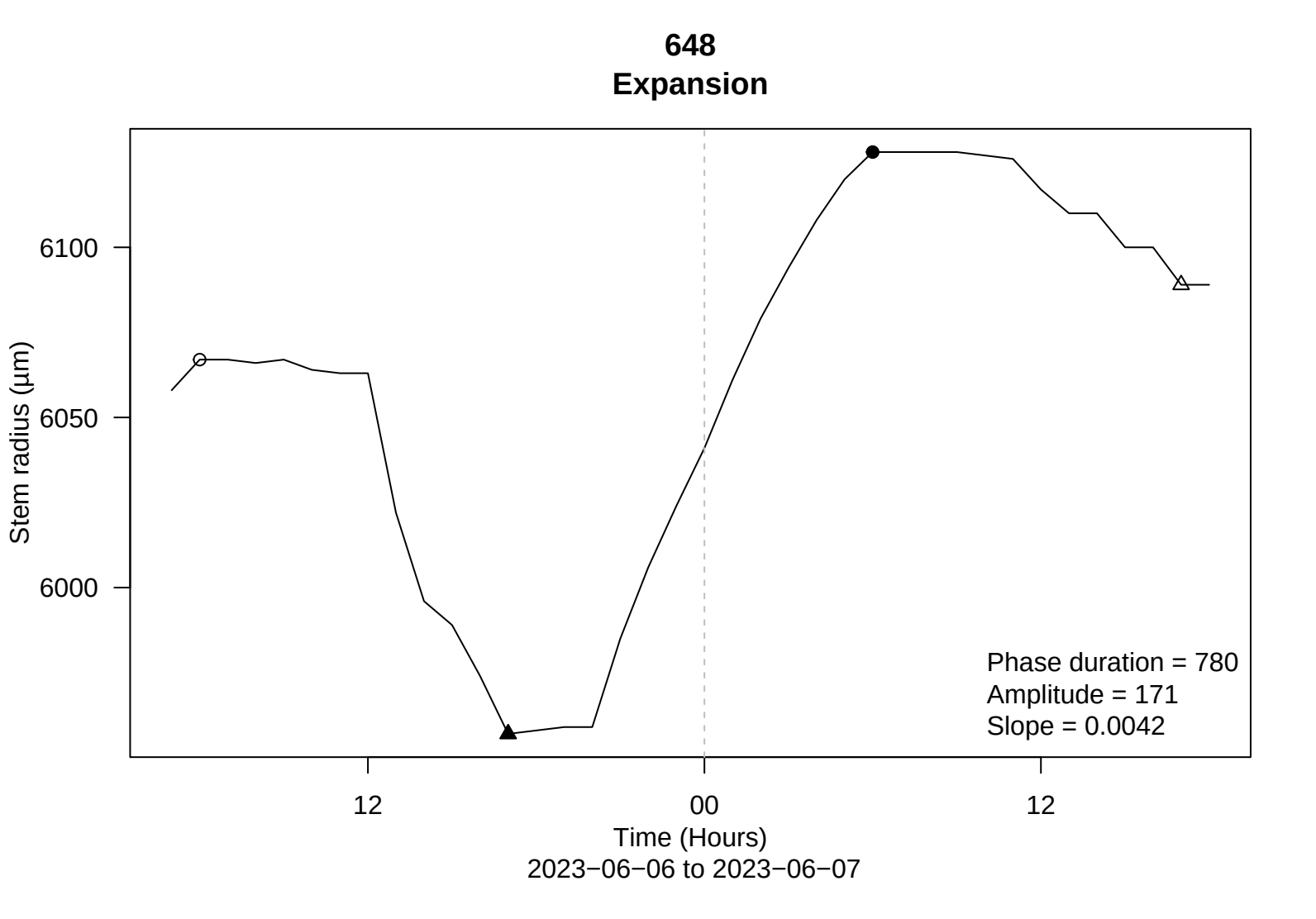

648
Shrinkage
6000
5950
5900
Stem radius (µm)
Phase duration = 900
Amplitude = −17
Slope = −4e−04
00
12
00
Time (Hours)
2023−06−04 to 2023−06−04

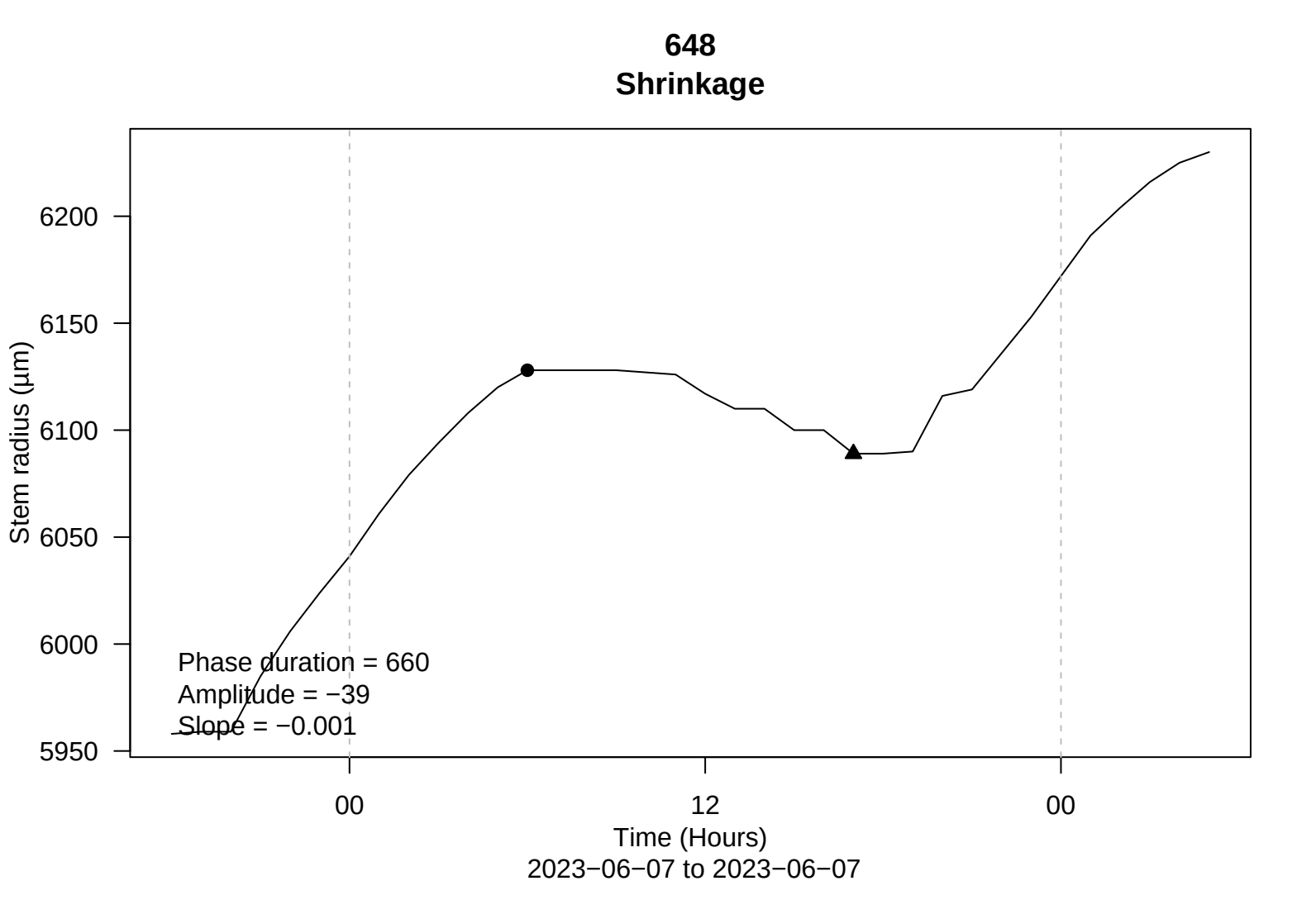

648
Expansion
6020
6000
5980
5960
5940
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−04 to 2023−06−05
Phase duration = 600
Amplitude = 90
Slope = 0.0027

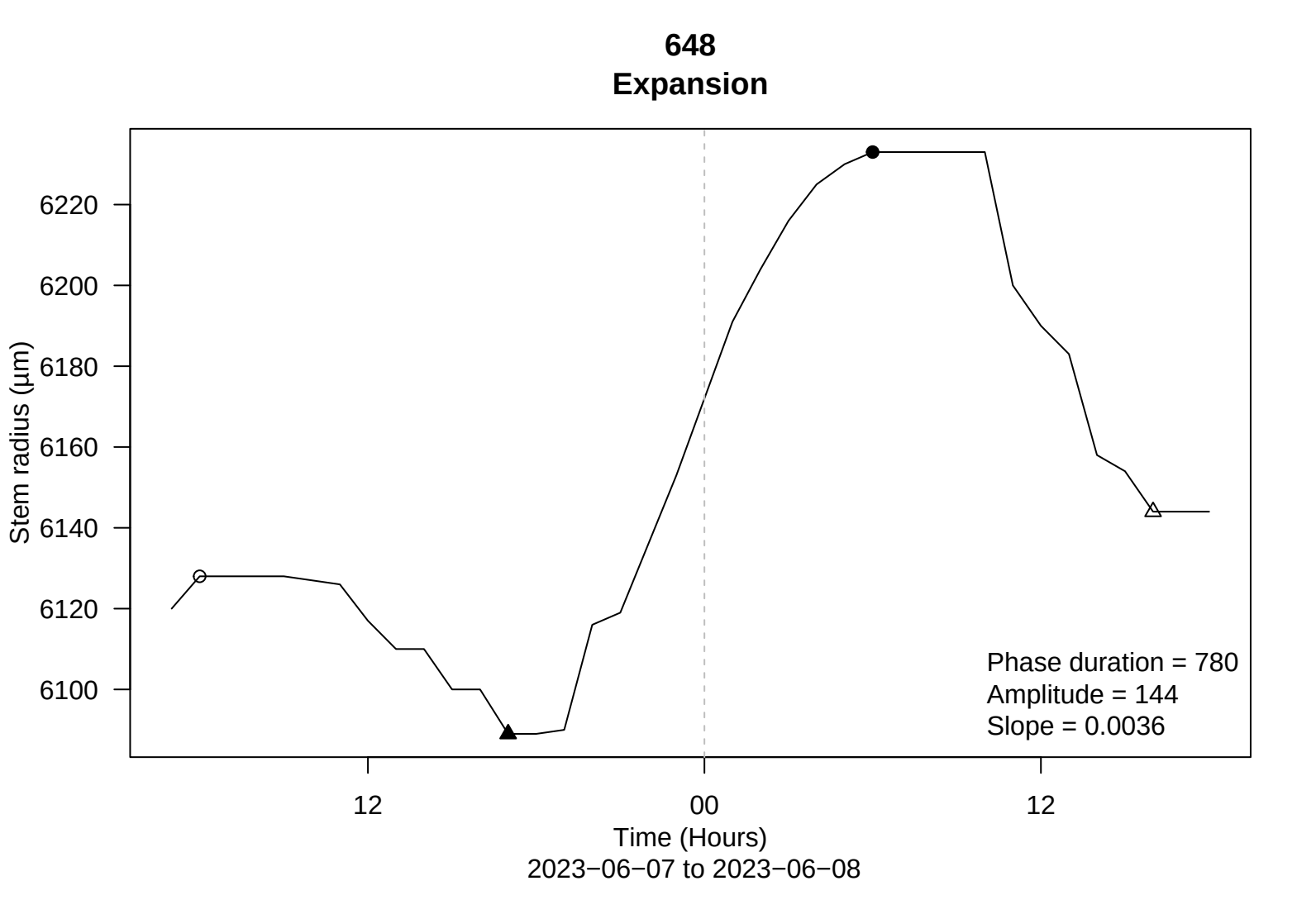

648
Shrinkage
6060
6040
6020
6000
5980
5960
5940
Stem radius (µm)
Phase duration = 780
Amplitude = −49
Slope = −0.0013
00
12
00
Time (Hours)
2023−06−05 to 2023−06−05

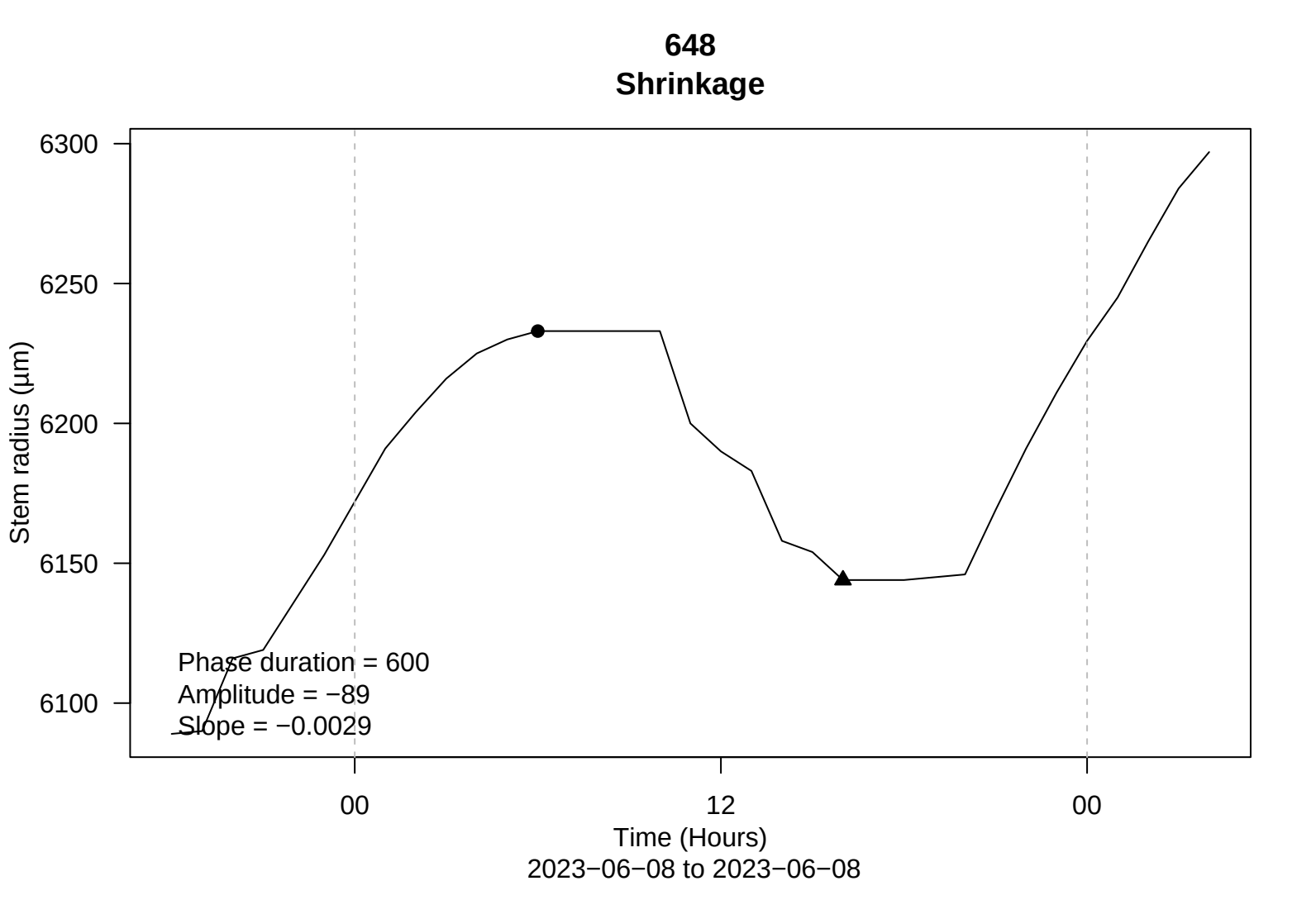

648
Expansion
6060
6040
6020
6000
5980
5960
Stem radius (µm)
Phase duration = 600
Amplitude = 84
Slope = 0.0025
12
00
12
Time (Hours)
2023−06−05 to 2023−06−06

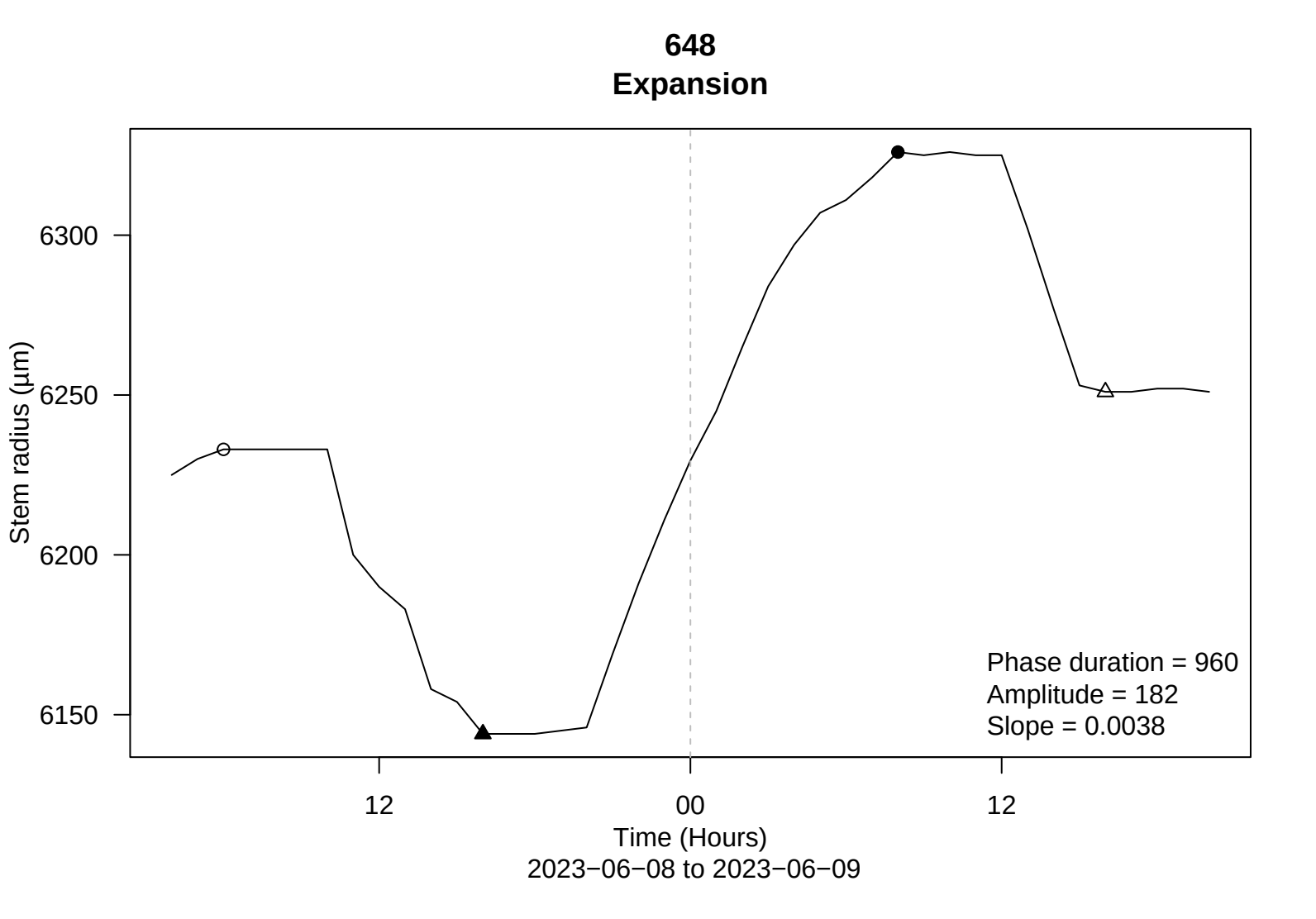

648
Shrinkage
6100
6050
6000
Stem radius (µm)
Phase duration = 660
Amplitude = −110
Slope = −0.003
00
12
00
Time (Hours)
2023−06−06 to 2023−06−06

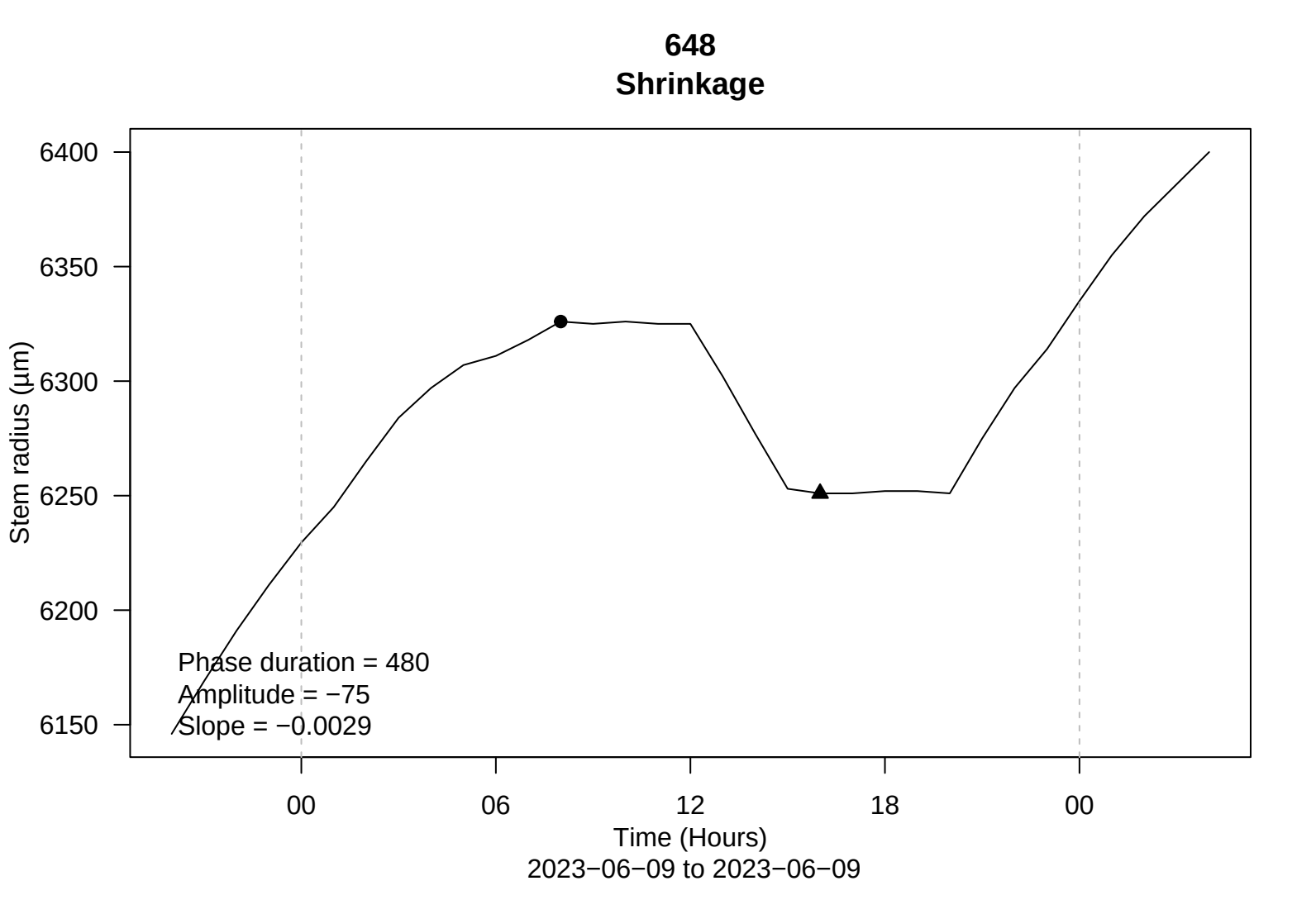

648
Expansion
6100
6050
6000
Stem radius (µm)
Phase duration = 780
Amplitude = 171
Slope = 0.0042
12
00
12
Time (Hours)
2023−06−06 to 2023−06−07

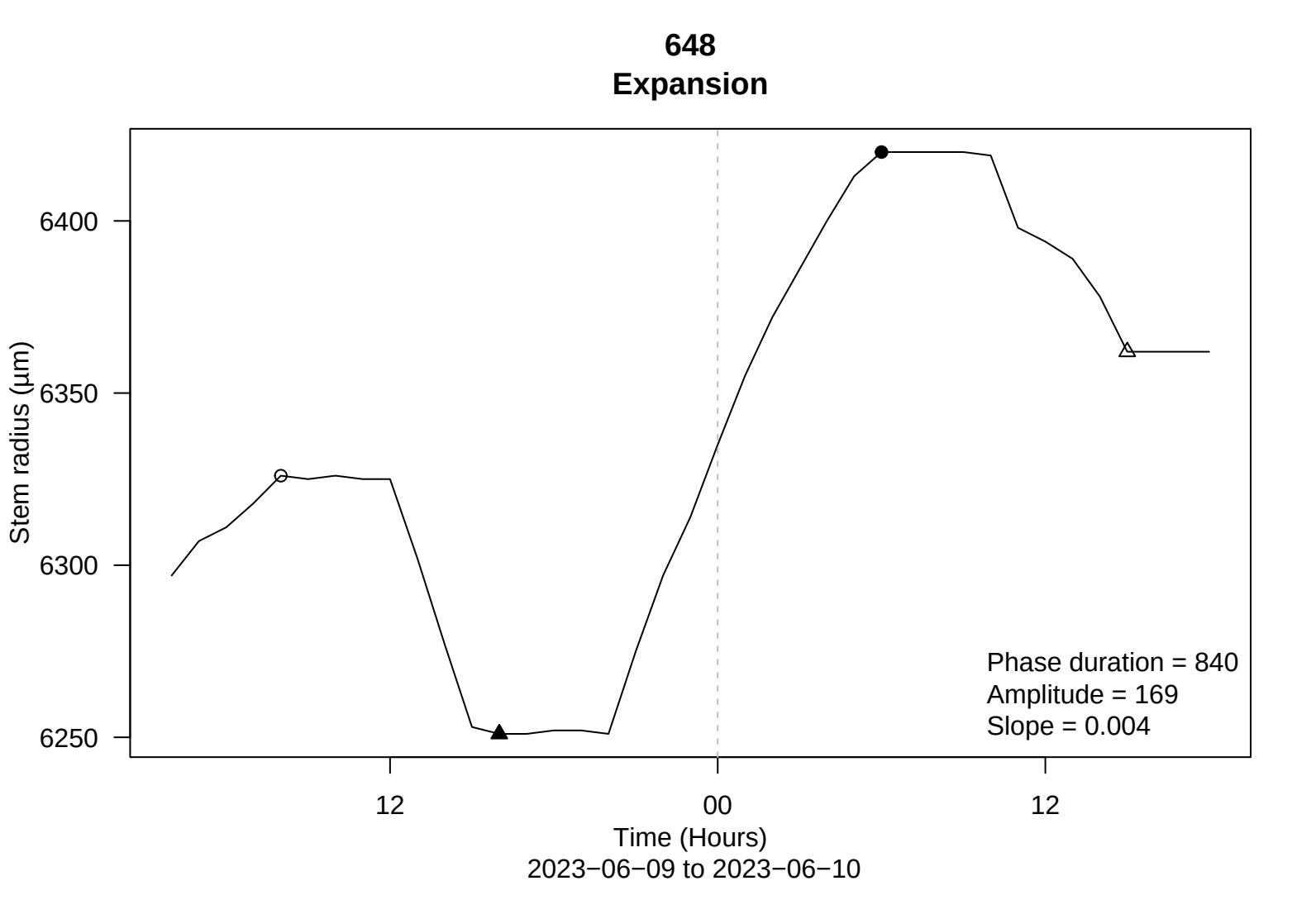

648
Shrinkage
Stem radius (µm)
6200
6150
6100
6050
6000
5950
Phase duration = 660
Amplitude = −39
Slope = −0.001
00
12
00
Time (Hours)
2023−06−07 to 2023−06−07

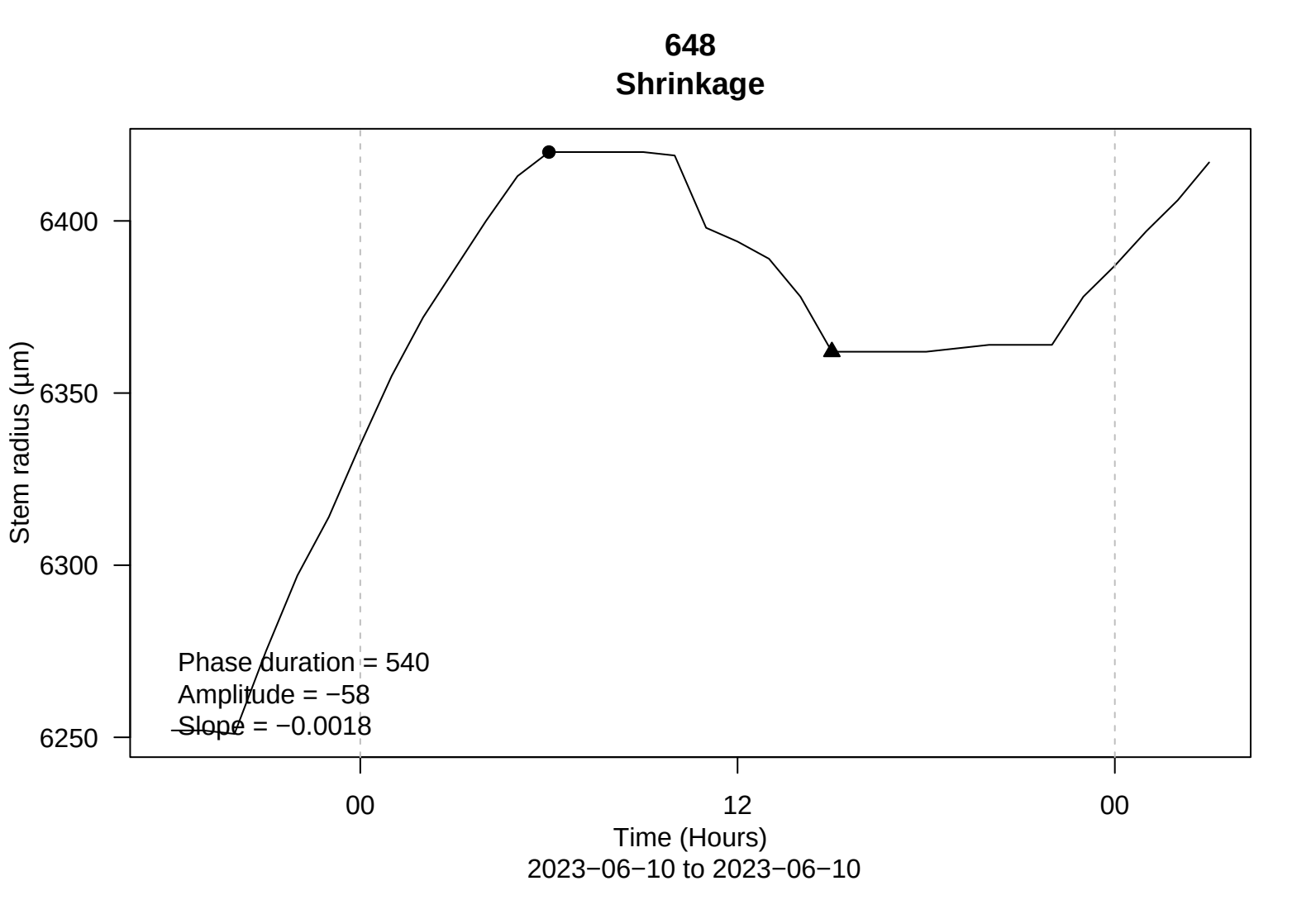

648
Expansion
6220
6200
6180
6160
6140
6120
6100
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−07 to 2023−06−08
Phase duration = 780
Amplitude = 144
Slope = 0.0036

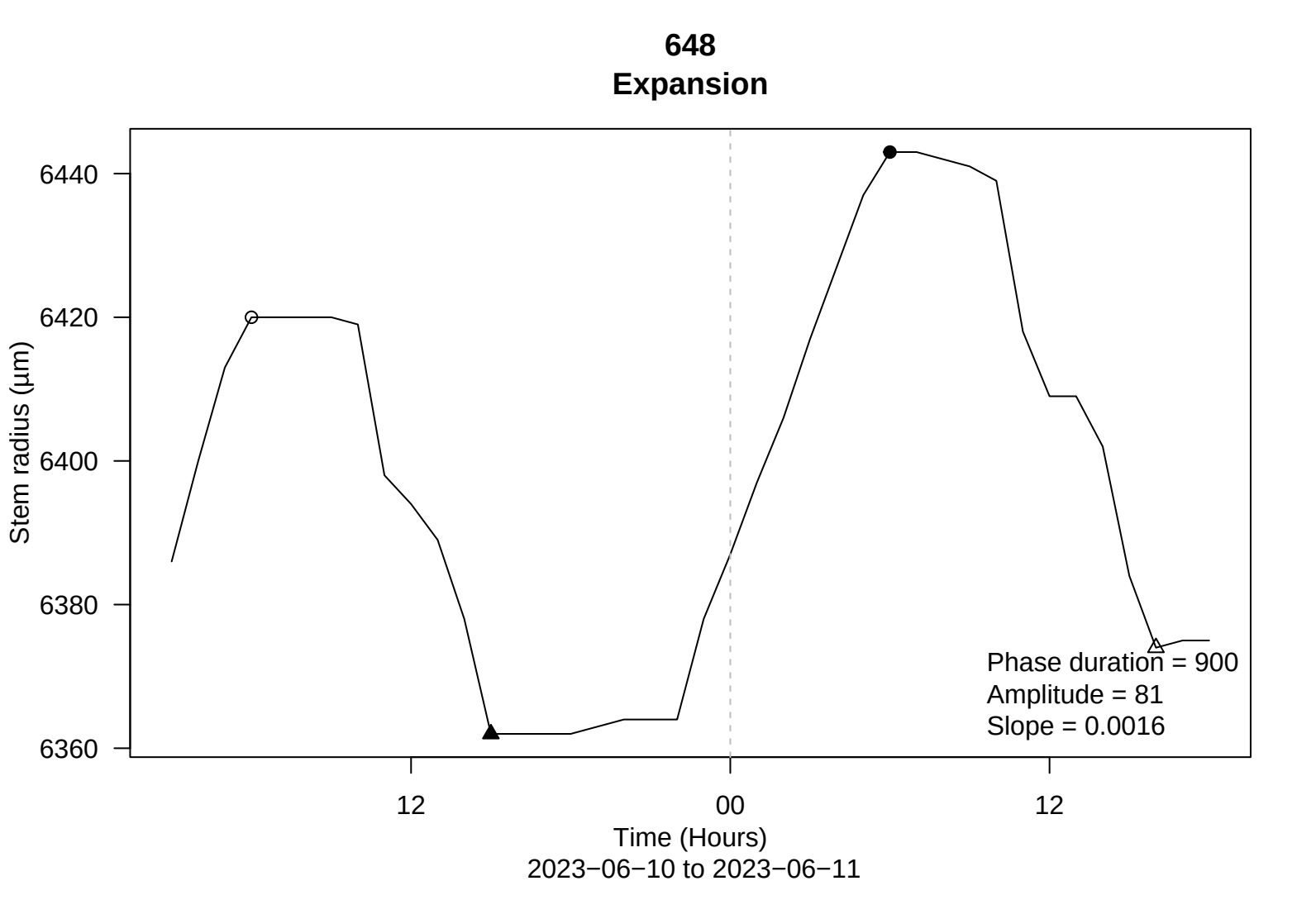

648
Shrinkage
6300
6250
6200
6150
6100
Stem radius (µm)
Phase duration = 600
Amplitude = −89
Slope = −0.0029
00
12
00
Time (Hours)
2023−06−08 to 2023−06−08

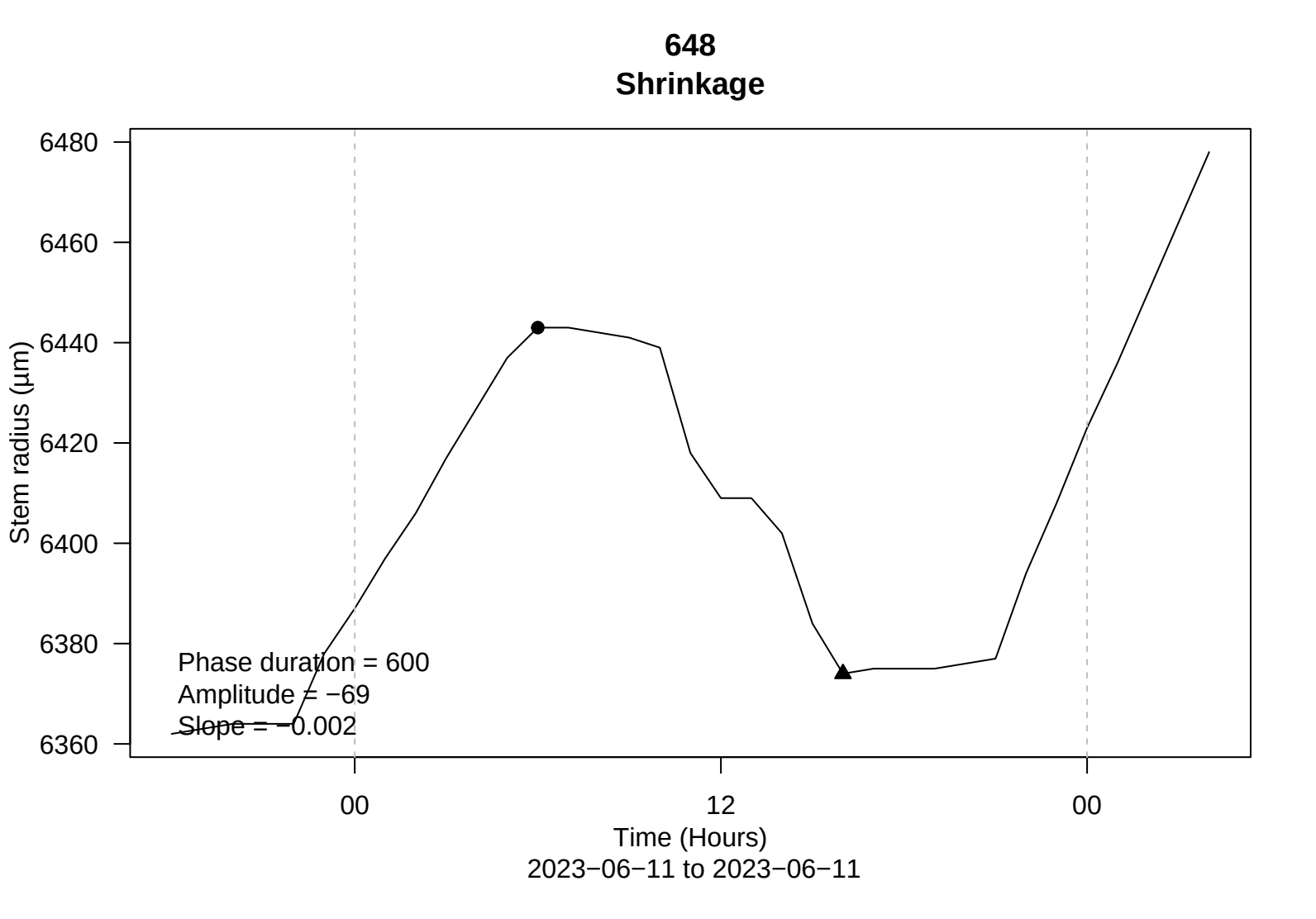

648
Expansion
6300
6250
6200
6150
Stem radius (µm)
Phase duration = 960
Amplitude = 182
Slope = 0.0038
12
00
12
Time (Hours)
2023−06−08 to 2023−06−09

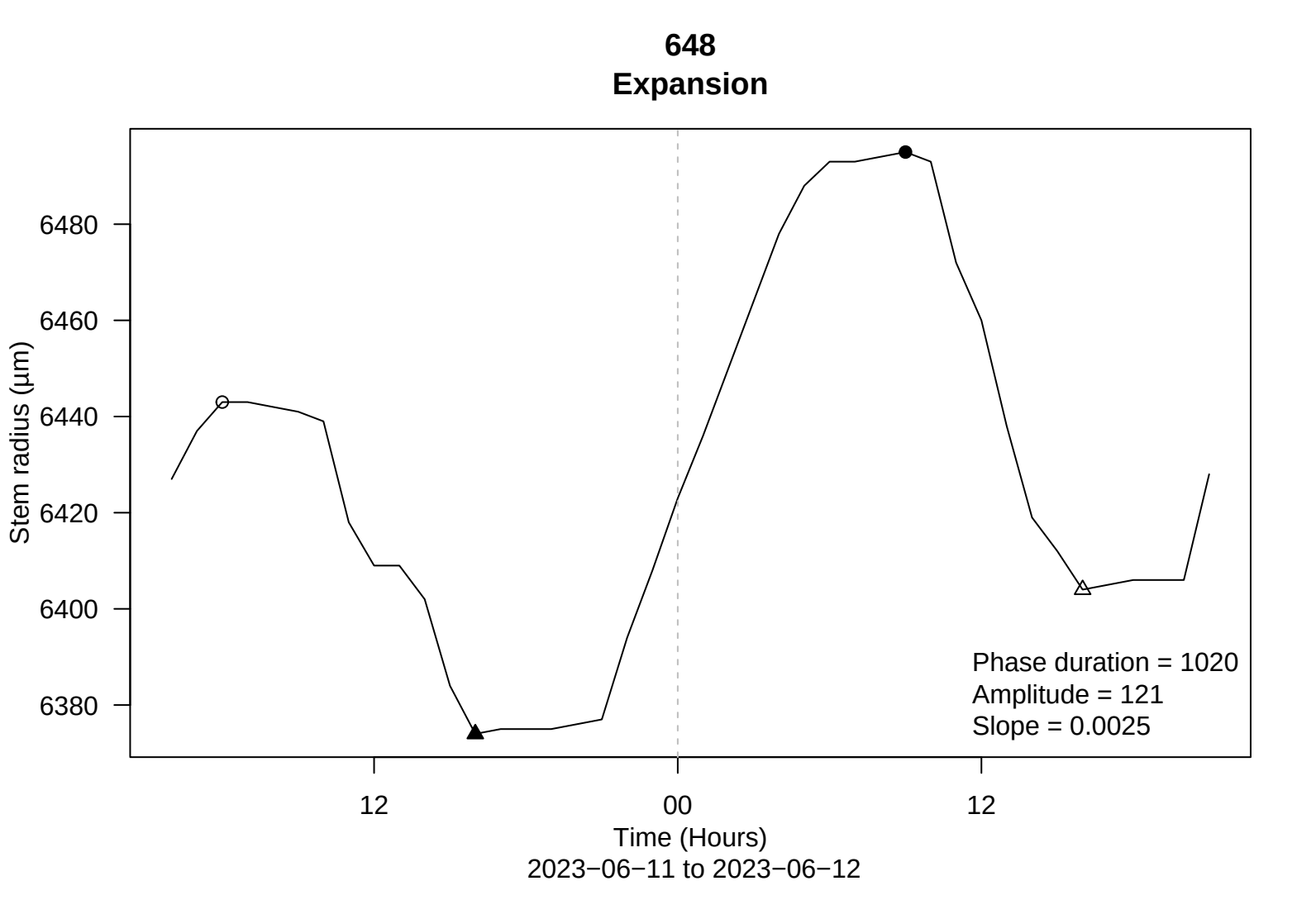

648
Shrinkage
6400
6350
6300
6250
6200
6150
Stem radius (µm)
Phase duration = 480
Amplitude = −75
Slope = −0.0029
00
06
12
18
00
Time (Hours)
2023−06−09 to 2023−06−09

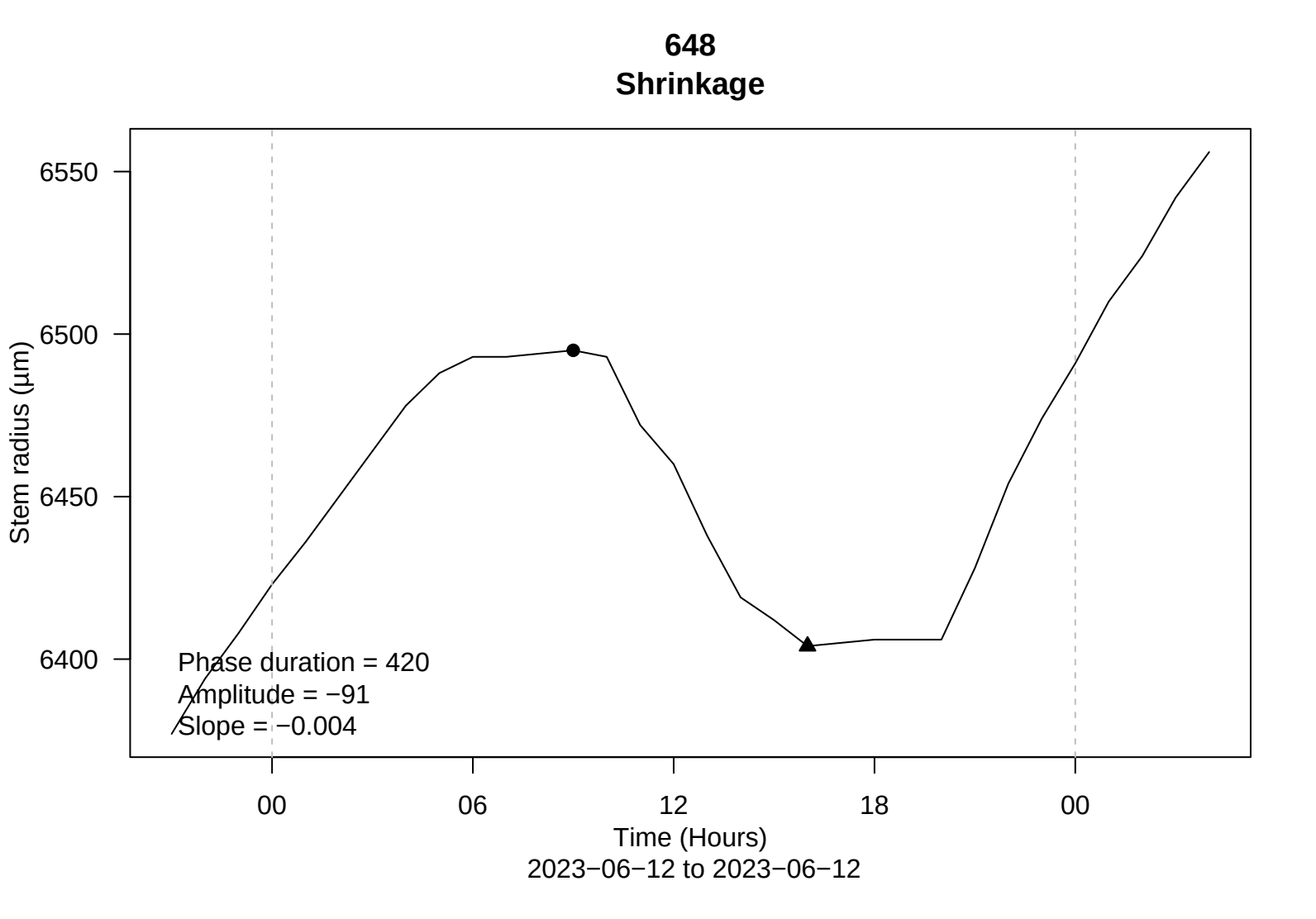

648
Expansion
6400
6350
6300
6250
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−09 to 2023−06−10
Phase duration = 840
Amplitude = 169
Slope = 0.004

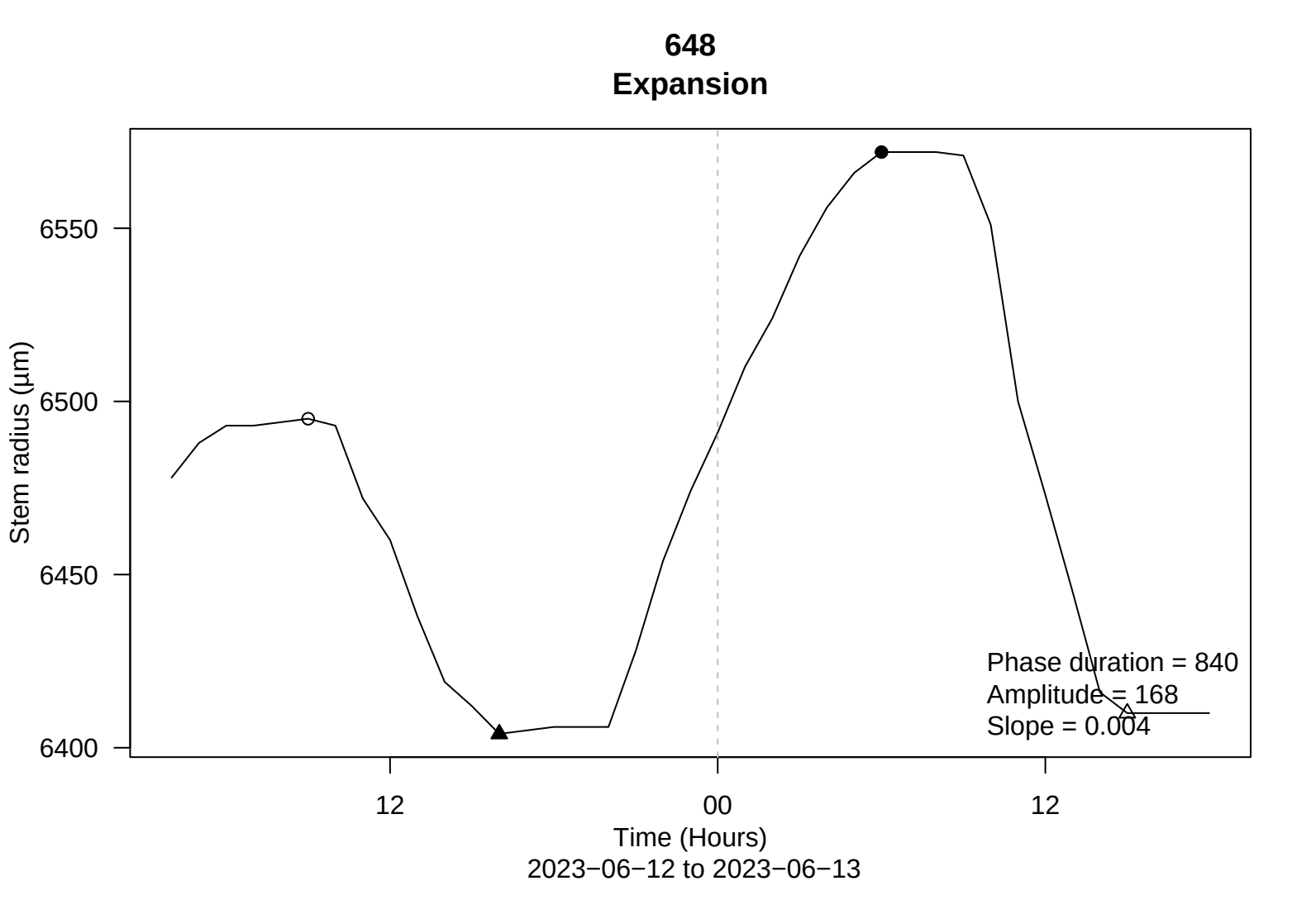

648
Shrinkage
6400
6350
6300
6250
Stem radius (µm)
Phase duration = 540
Amplitude = −58
Slope = −0.0018
00
12
00
Time (Hours)
2023−06−10 to 2023−06−10

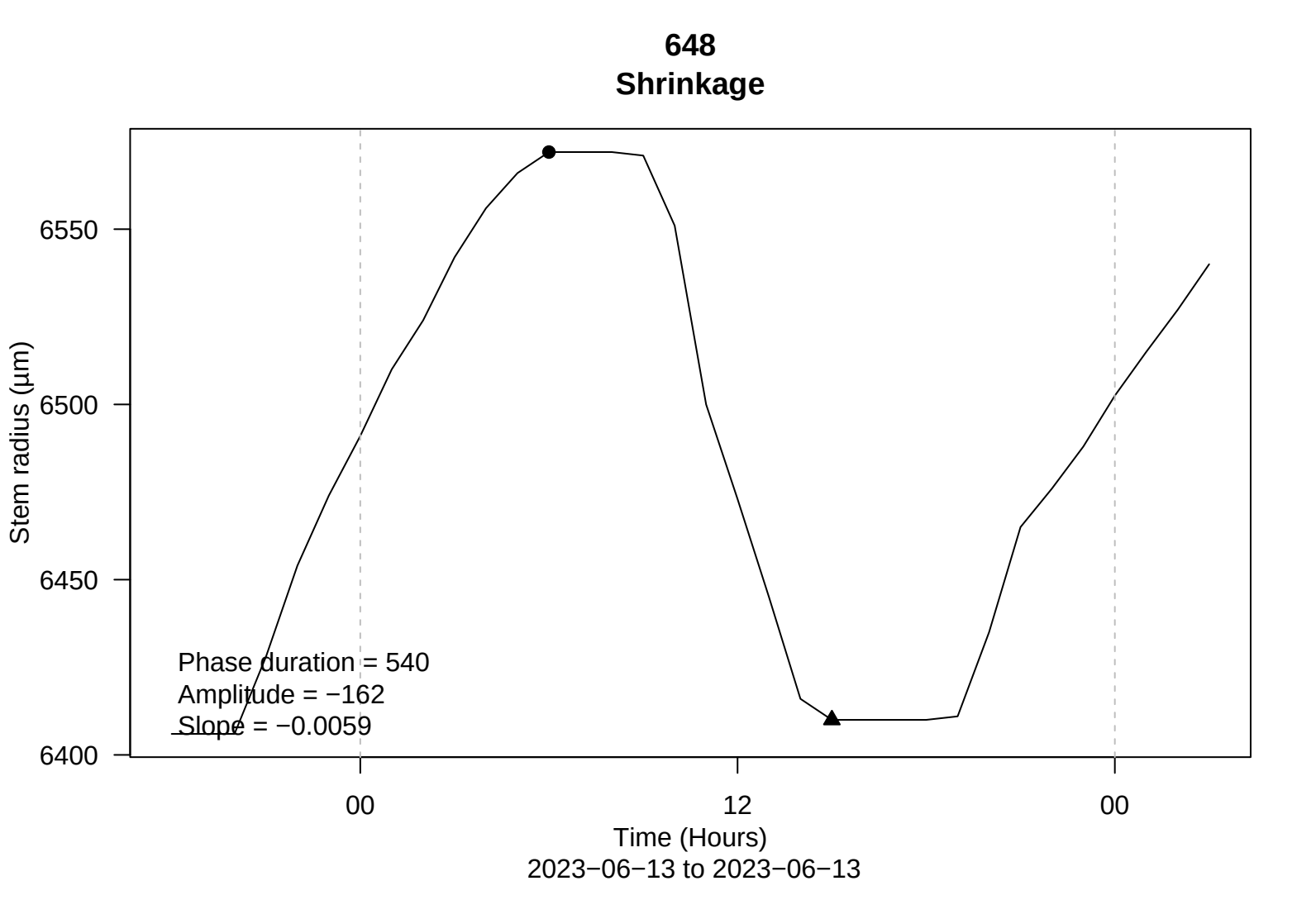

648
Expansion
6440
6420
6400
6380
6360
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−10 to 2023−06−11
Phase duration = 900
Amplitude = 81
Slope = 0.0016

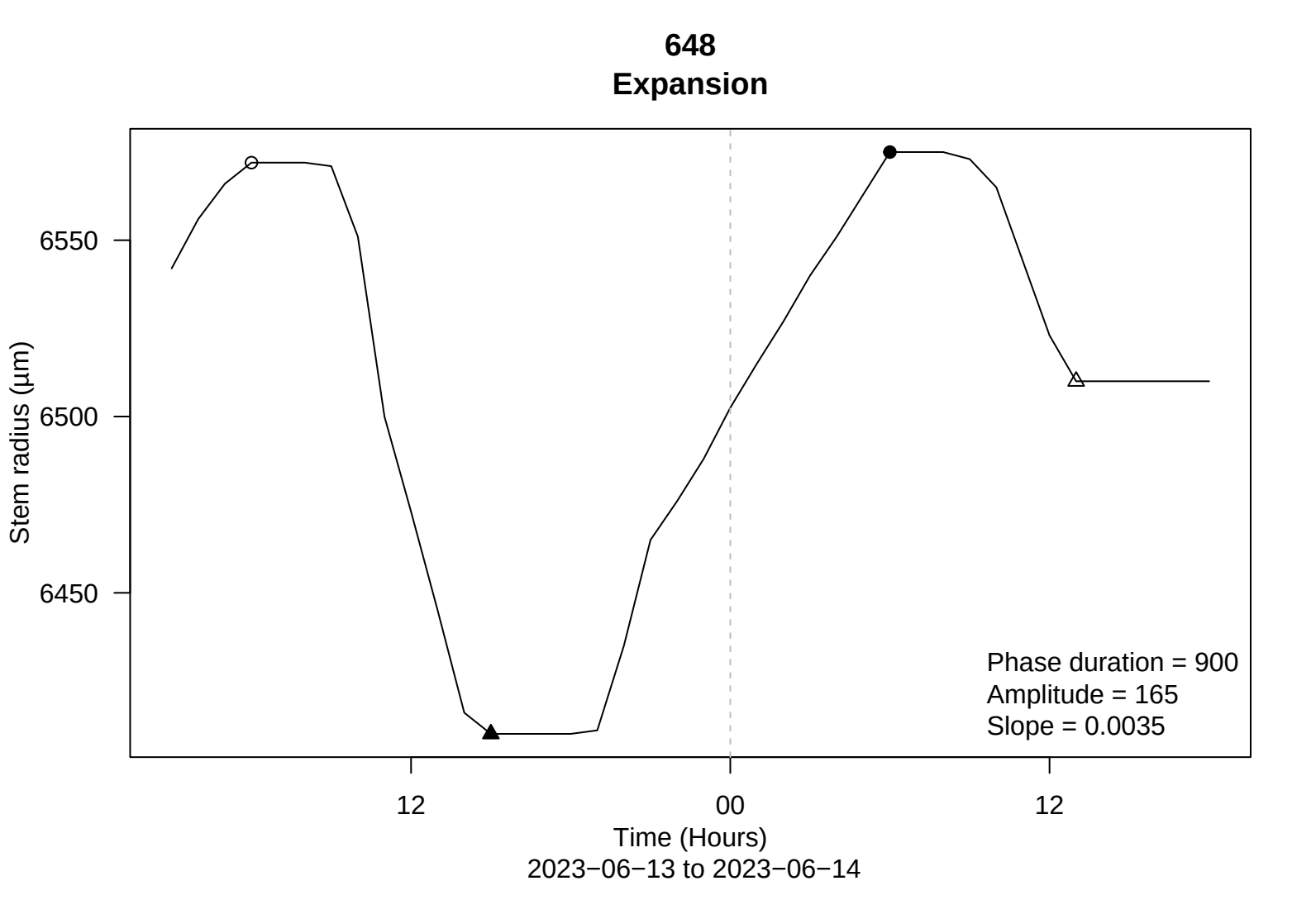

648
Shrinkage
6480
6460
6440
6420
6400
6380
6360
Stem radius (µm)
Phase duration = 600
Amplitude = −69
Slope = −0.002
00
12
00
Time (Hours)
2023−06−11 to 2023−06−11

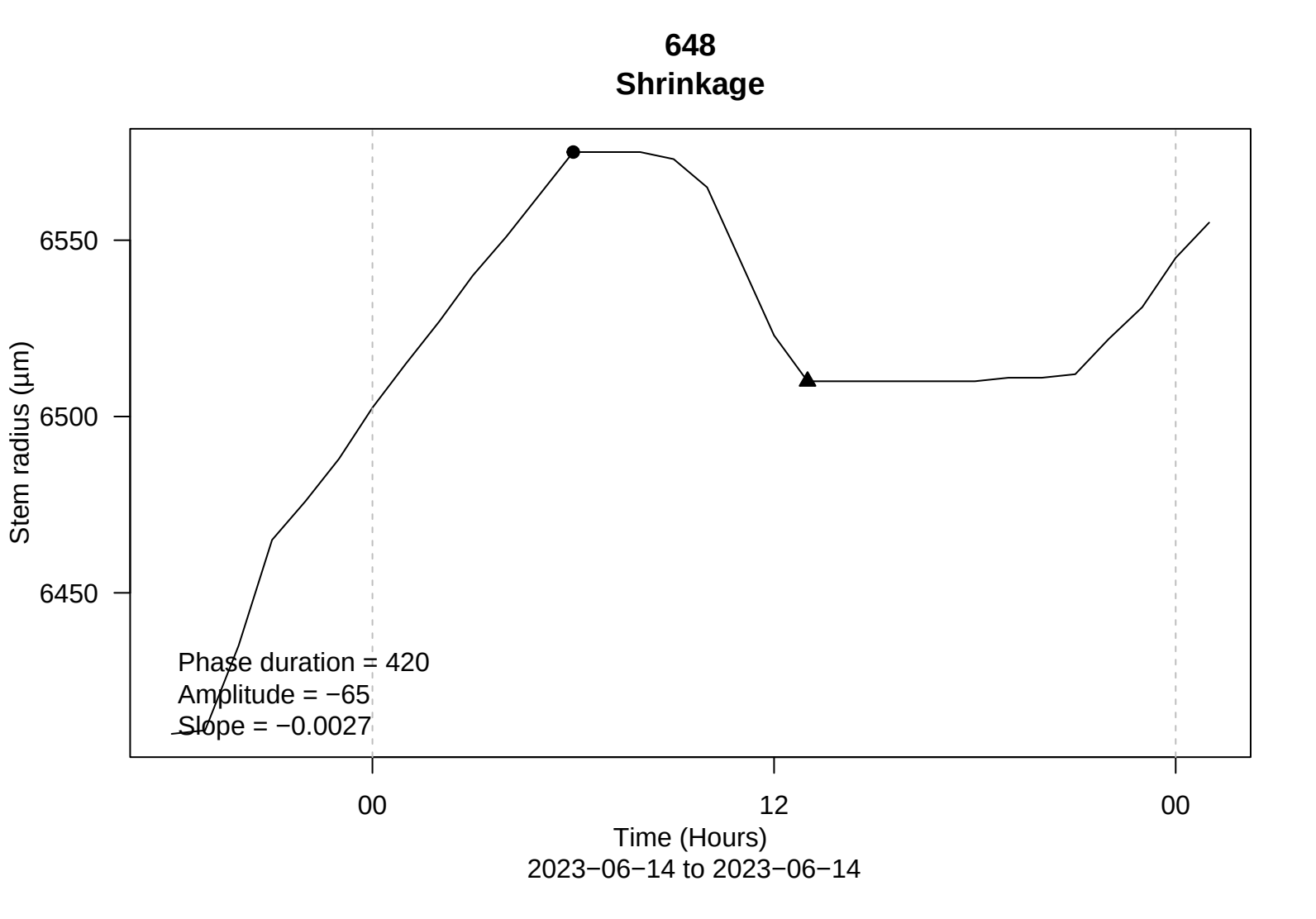

648
Expansion
6480
6460
6440
6420
6400
6380
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−11 to 2023−06−12
Phase duration = 1020
Amplitude = 121
Slope = 0.0025

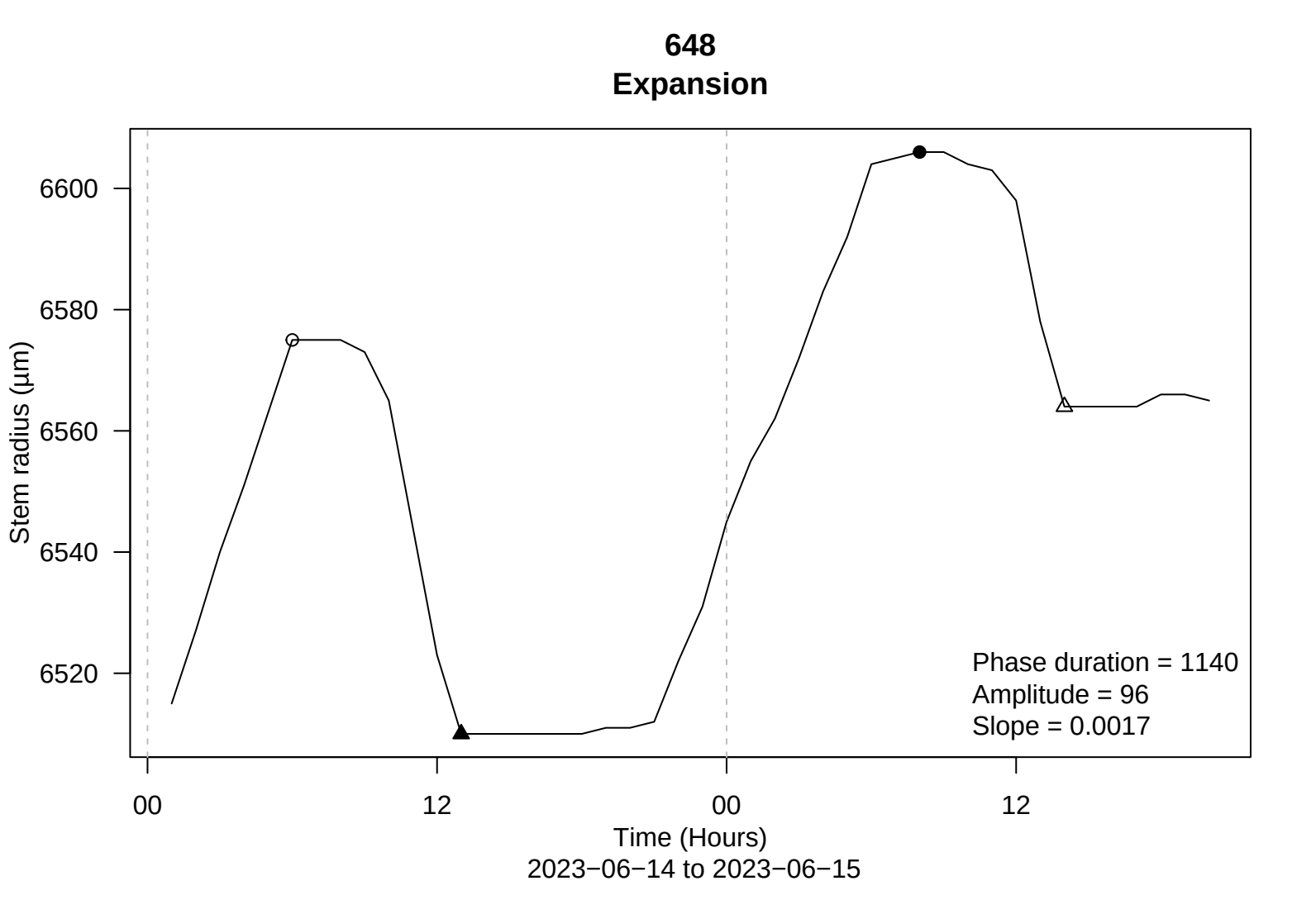

648
Shrinkage
6550
6500
6450
6400
Stem radius (µm)
Phase duration = 420
Amplitude = −91
Slope = −0.004
00
06
12
18
00
Time (Hours)
2023−06−12 to 2023−06−12

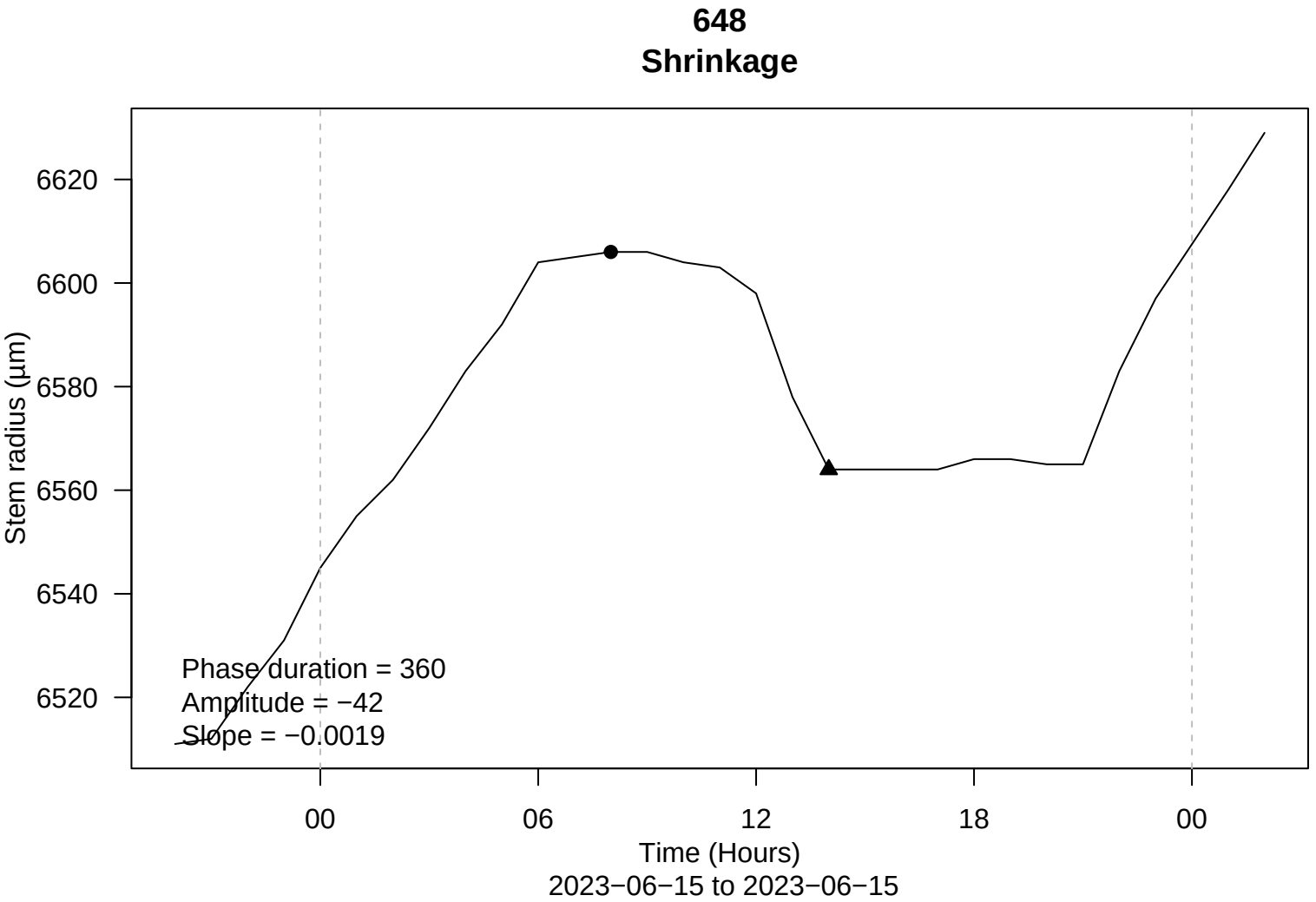

648
Expansion
6550
6500
6450
6400
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−12 to 2023−06−13
Phase duration = 840
Amplitude = 168
Slope = 0.004

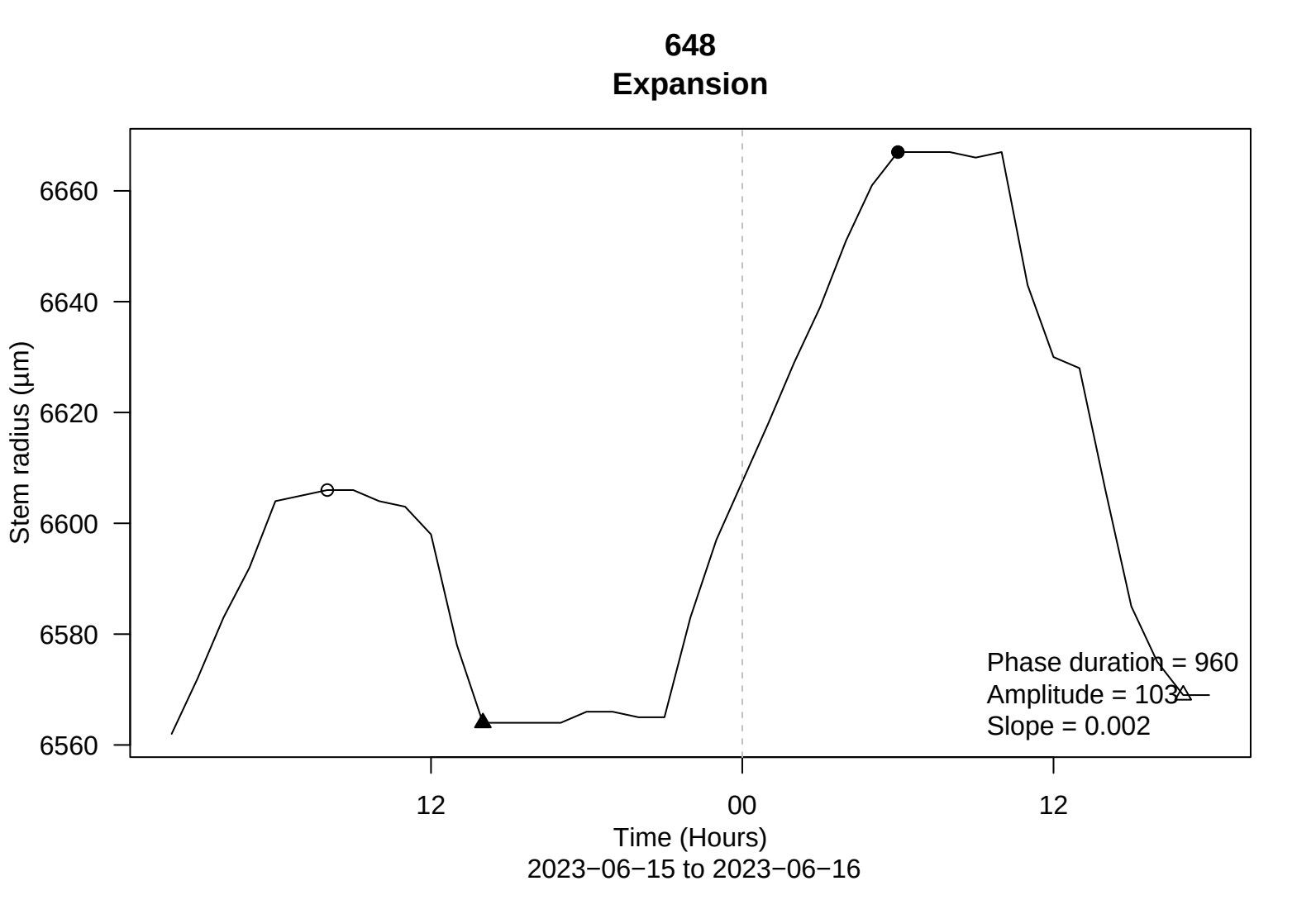

648
Shrinkage
6550
6500
6450
6400
Stem radius (µm)
Phase duration = 540
Amplitude = −162
Slope = −0.0059
00
12
00
Time (Hours)
2023−06−13 to 2023−06−13

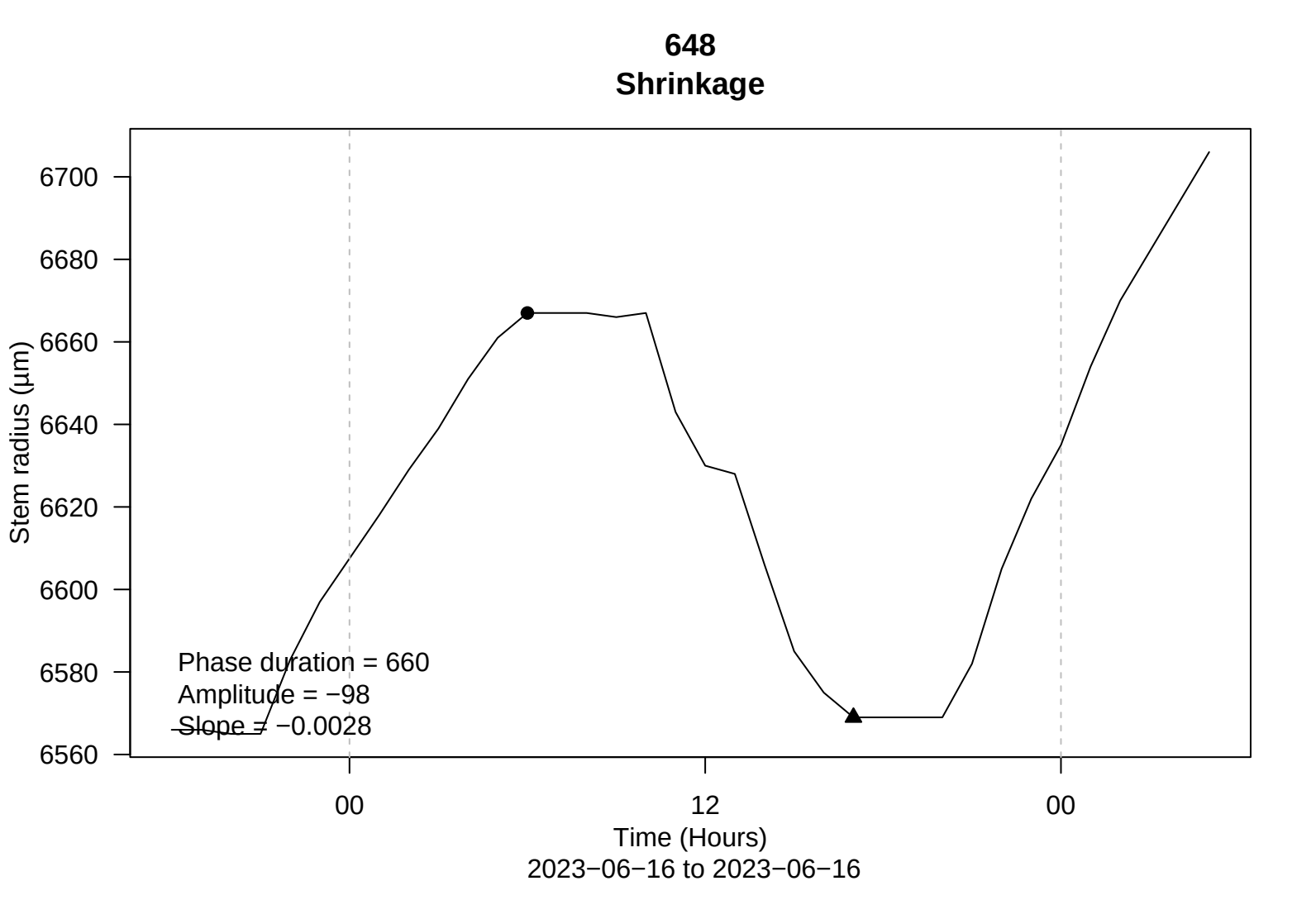

648
Expansion
6550
6500
6450
Stem radius (µm)
Phase duration = 900
Amplitude = 165
Slope = 0.0035
12
00
12
Time (Hours)
2023−06−13 to 2023−06−14

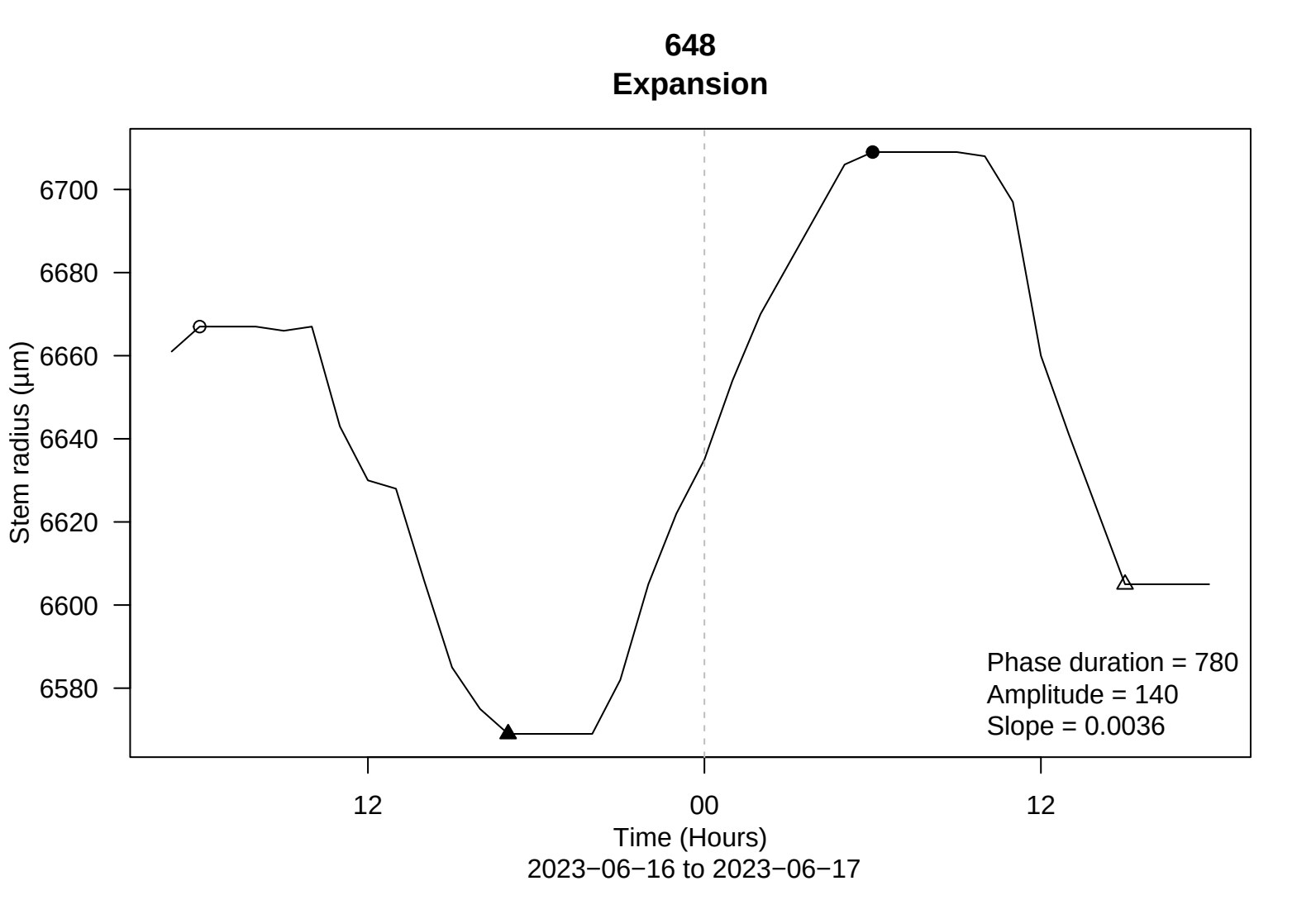

648
Shrinkage
6550
6500
6450
Stem radius (µm)
Phase duration = 420
Amplitude = −65
Slope = −0.0027
00
12
00
Time (Hours)
2023−06−14 to 2023−06−14

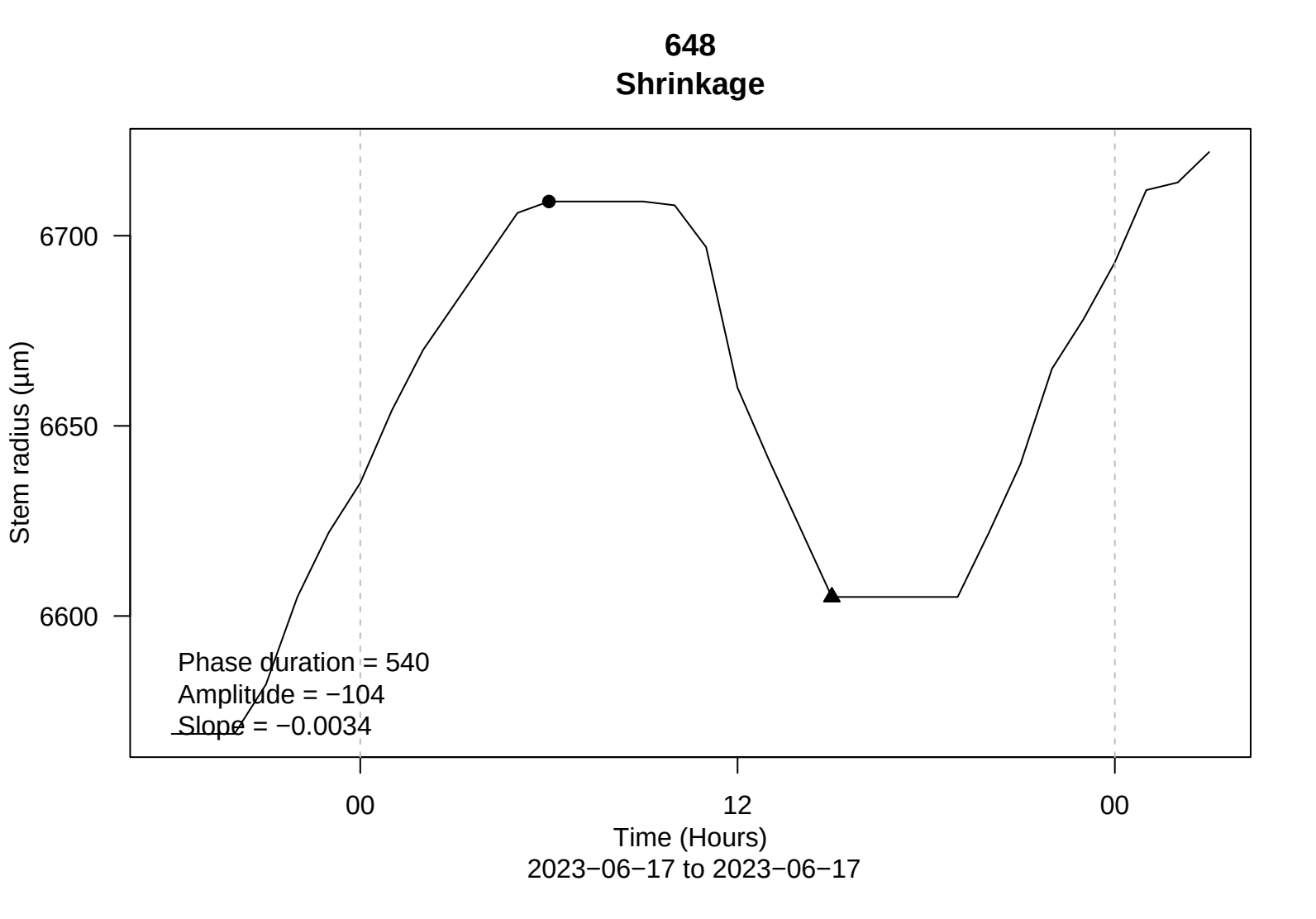

648
Expansion
6600
6580
6560
6540
6520
Stem radius (µm)
Phase duration = 1140
Amplitude = 96
Slope = 0.0017
00
12
00
12
Time (Hours)
2023−06−14 to 2023−06−15

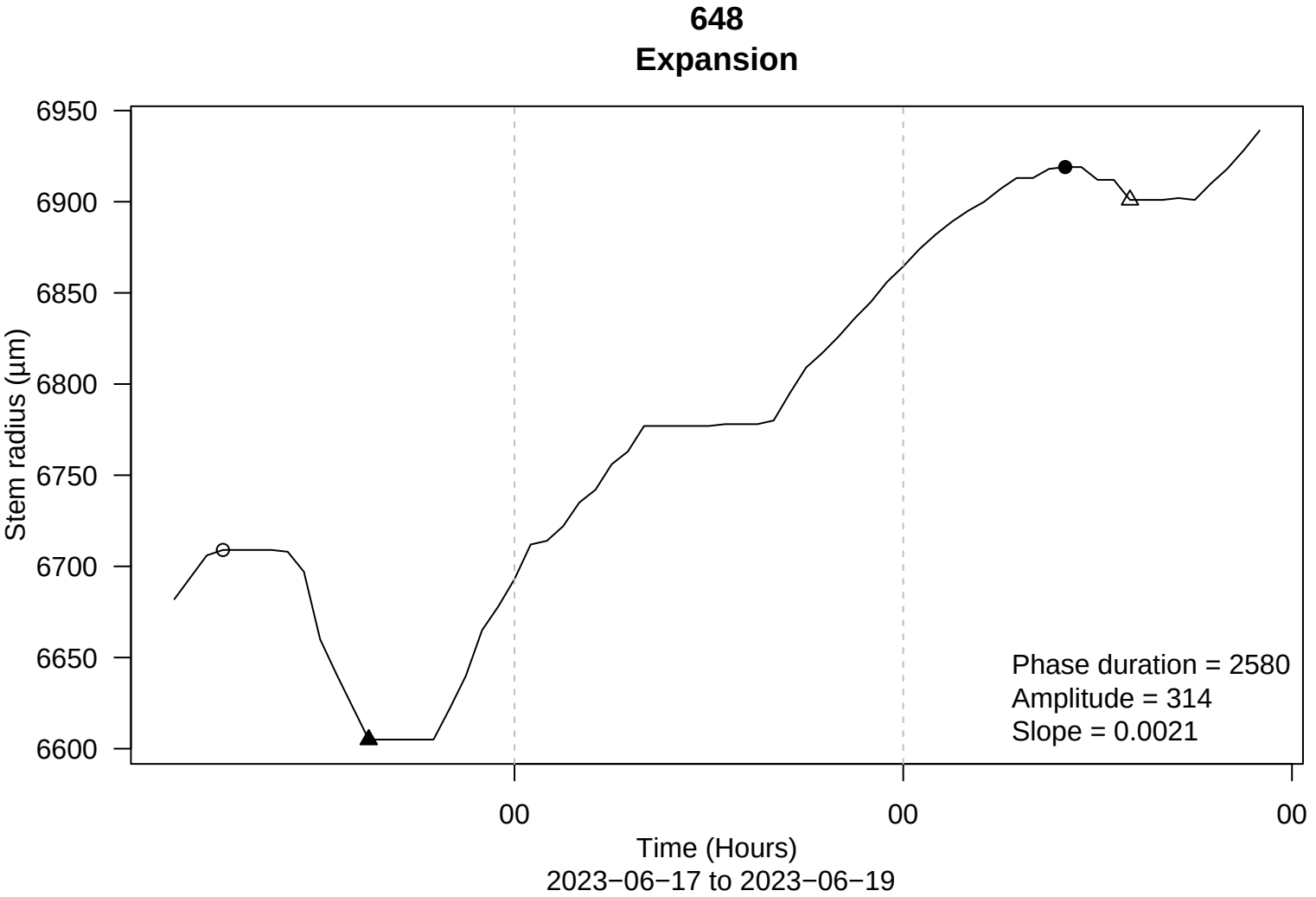

648
Shrinkage
6620
6600
6580
6560
6540
6520
Stem radius (µm)
Phase duration = 360
Amplitude = −42
Slope = −0.0019
00
06
12
18
00
Time (Hours)
2023−06−15 to 2023−06−15

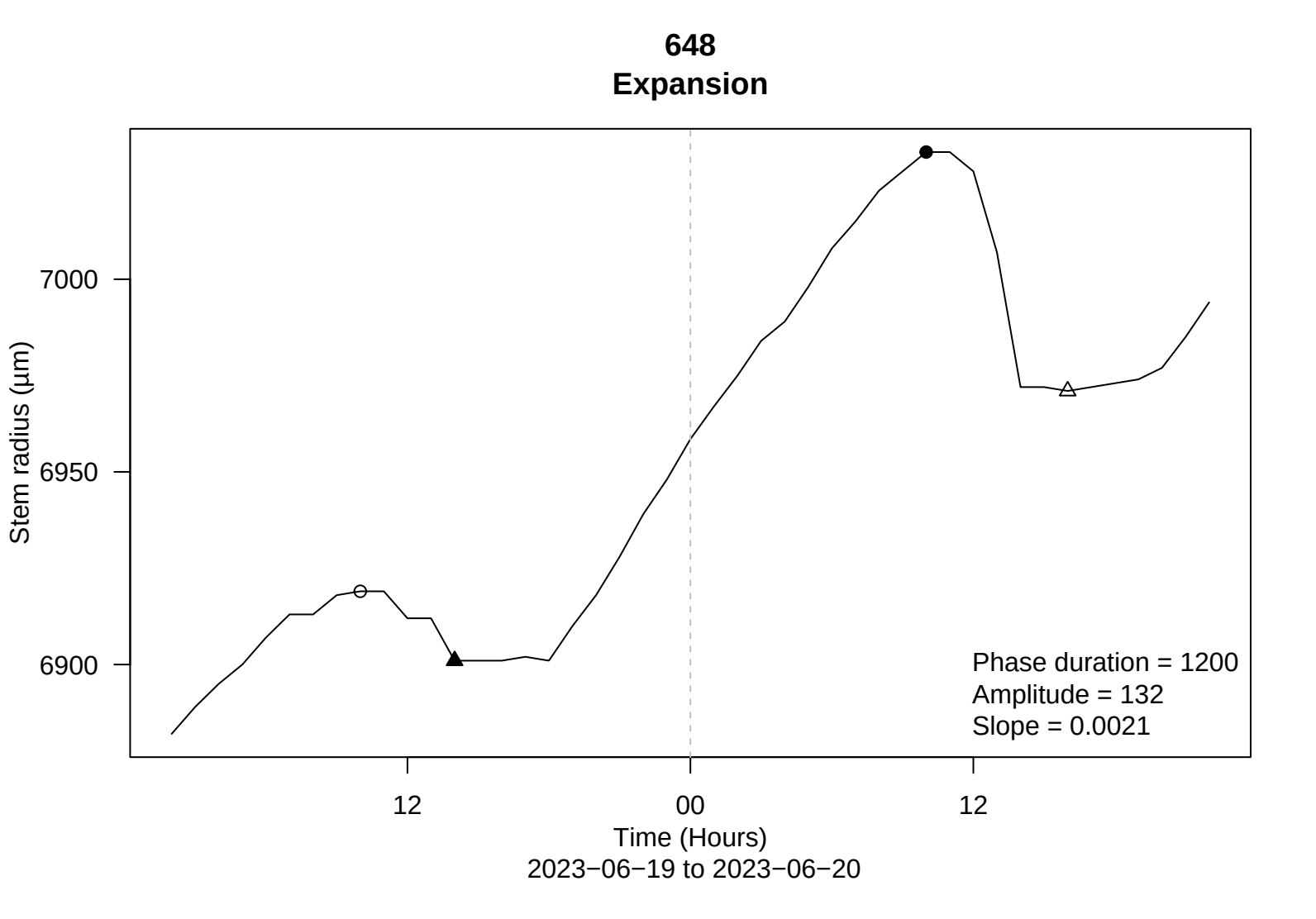

648
Expansion
6660
6640
6620
6600
6580
6560
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−15 to 2023−06−16
Phase duration = 960
Amplitude = 103
Slope = 0.002

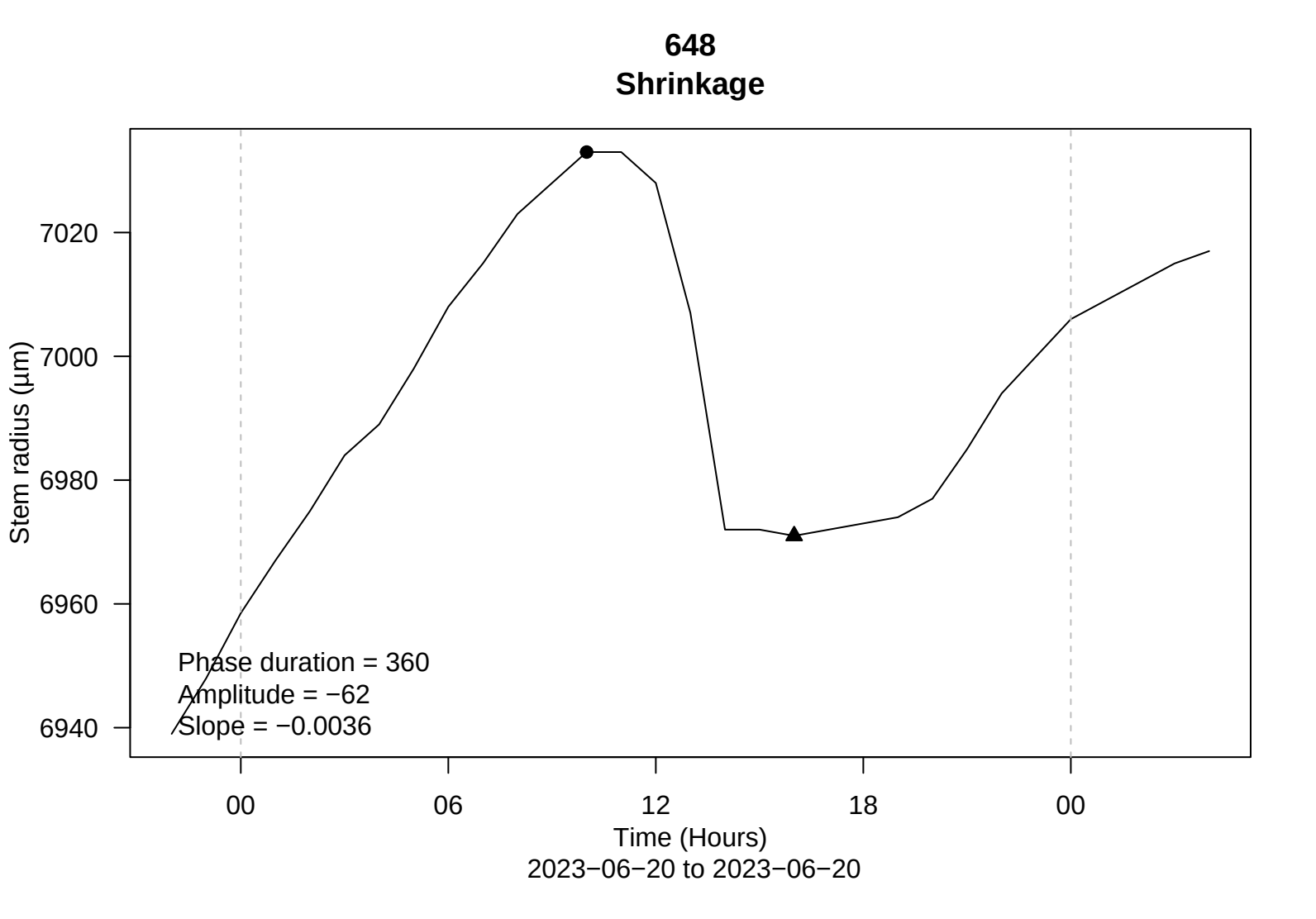

648
Shrinkage
6700
6680
6660
6640
6620
6600
6580
6560
Stem radius (µm)
Phase duration = 660
Amplitude = −98
Slope = −0.0028
00
12
00
Time (Hours)
2023−06−16 to 2023−06−16

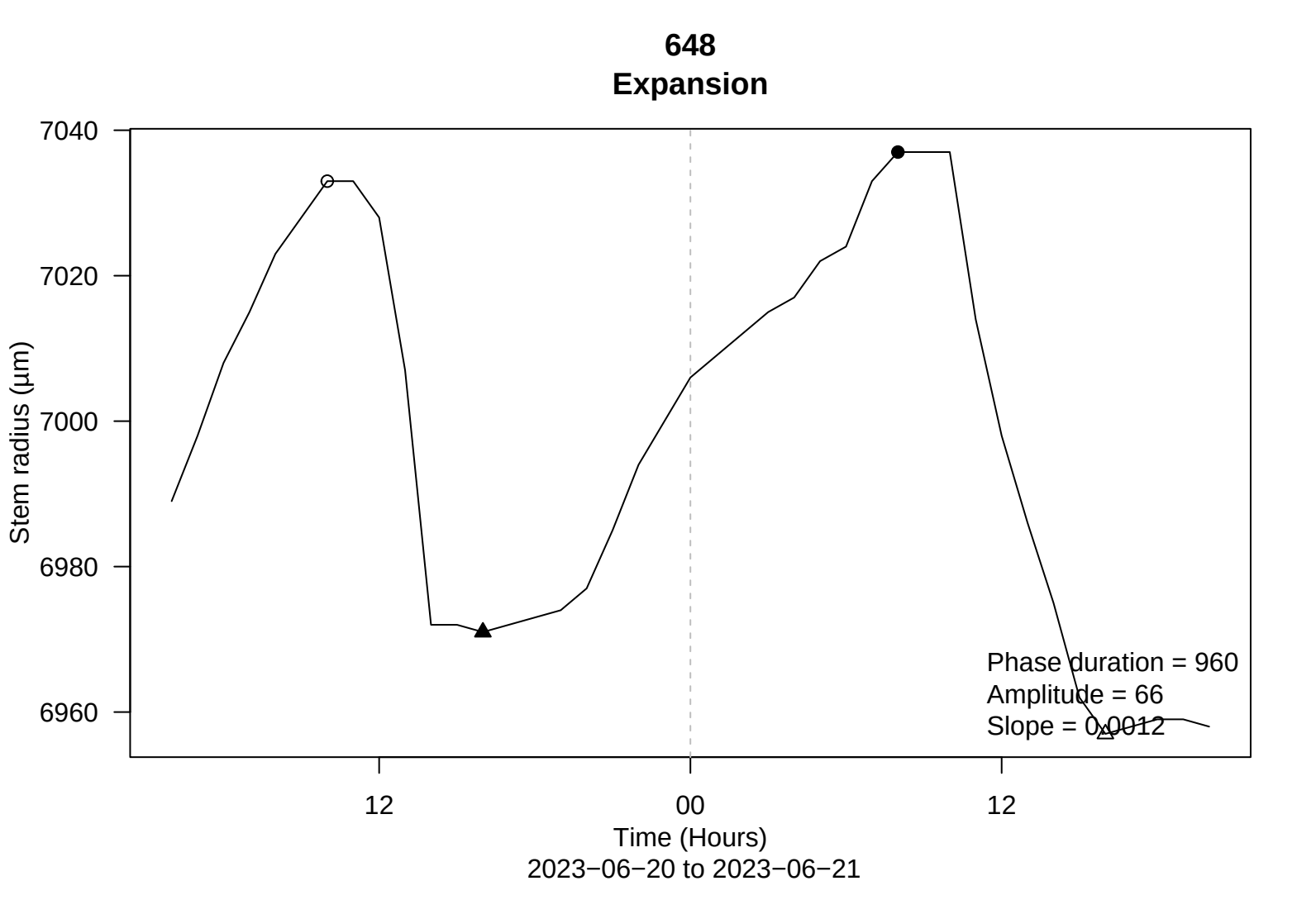

648
Expansion
6700
6680
6660
6640
6620
6600
6580
Stem radius (µm)
Phase duration = 780
Amplitude = 140
Slope = 0.0036
12
00
12
Time (Hours)
2023−06−16 to 2023−06−17

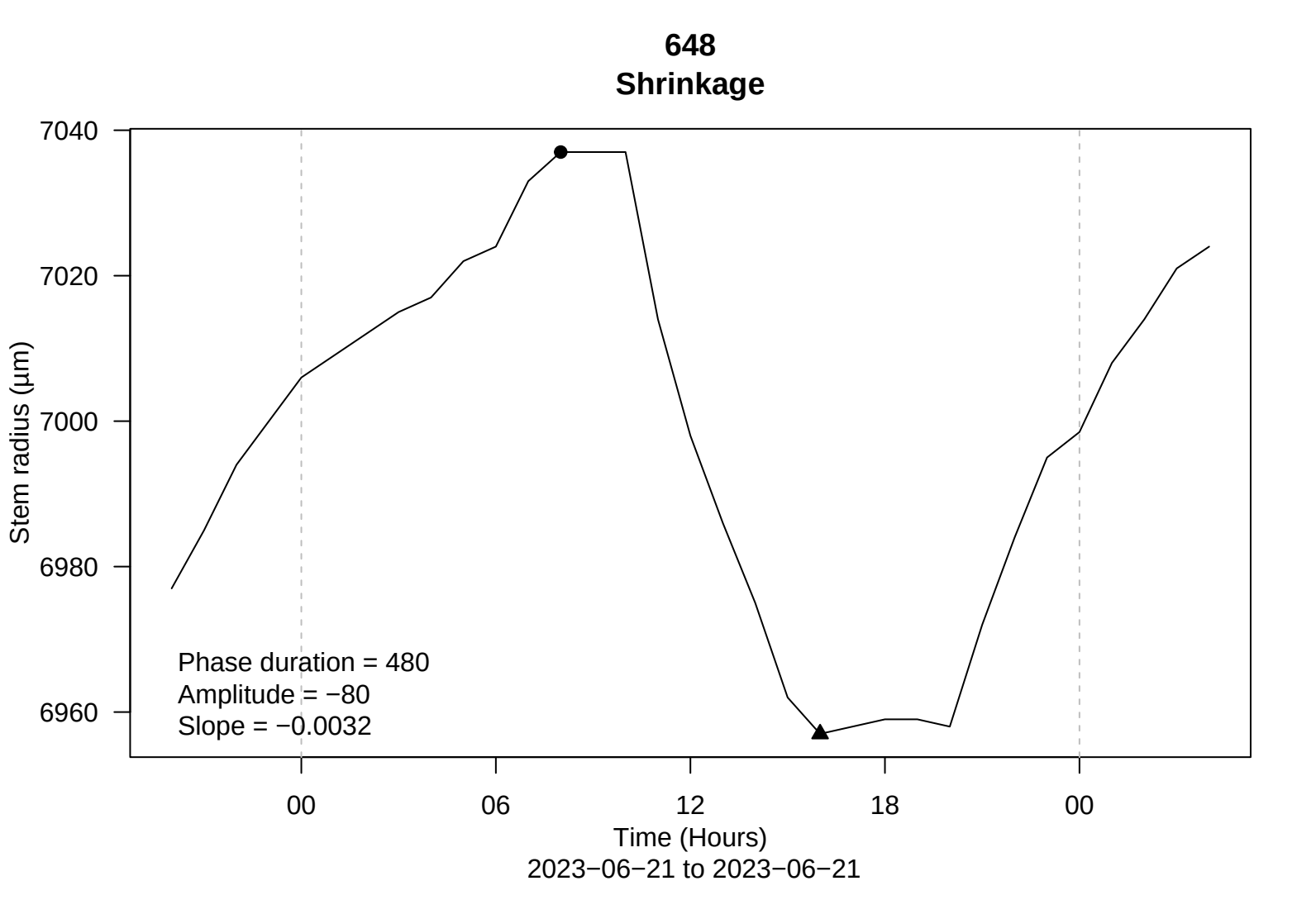

648
Shrinkage
6700
6650
6600
Stem radius (µm)
Phase duration = 540
Amplitude = −104
Slope = −0.0034
00
12
00
Time (Hours)
2023−06−17 to 2023−06−17

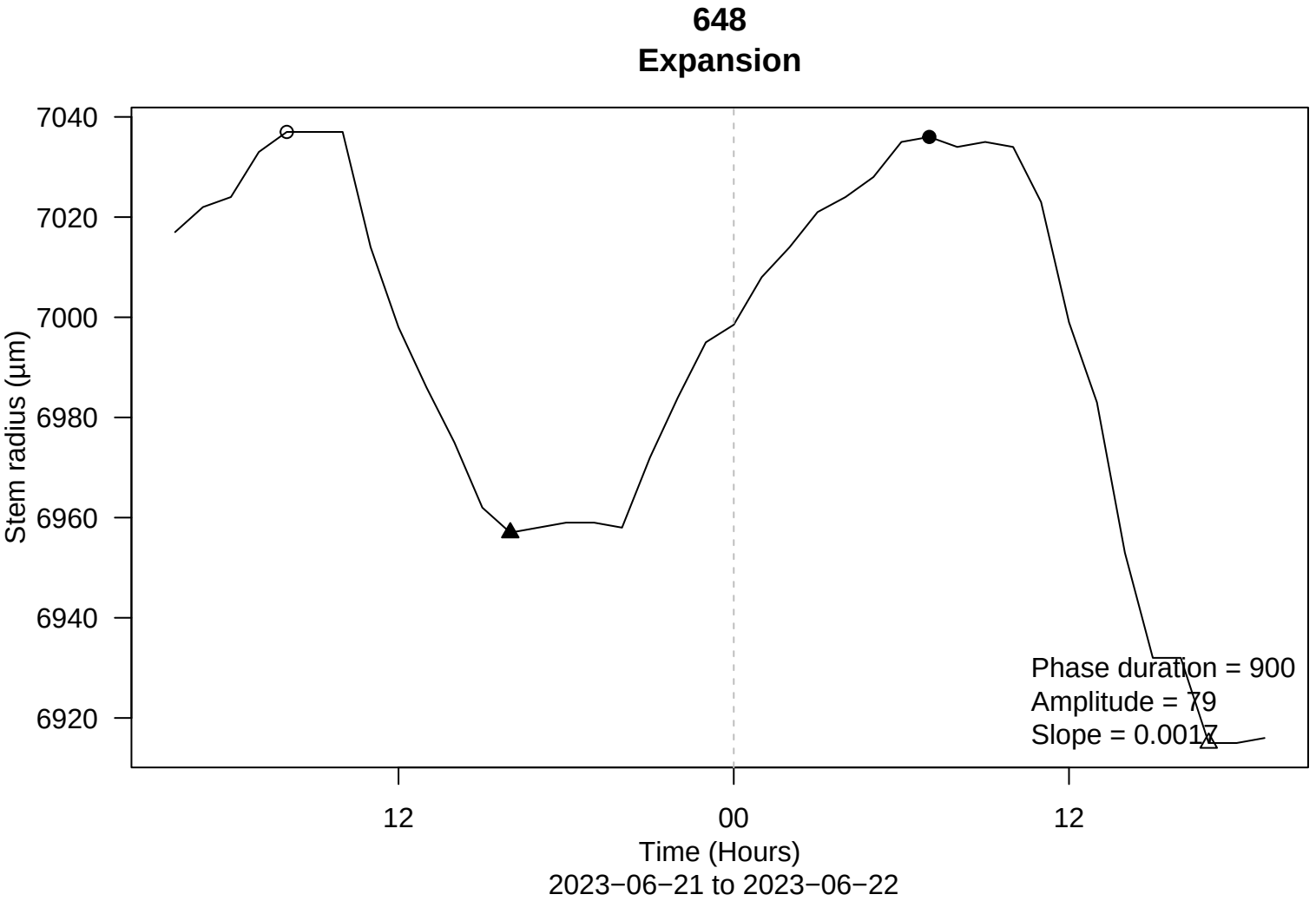

648
Expansion
6950
6900
6850
6800
6750
6700
6650
6600
Stem radius (µm)
00
00
00
Time (Hours)
2023−06−17 to 2023−06−19
Phase duration = 2580
Amplitude = 314
Slope = 0.0021

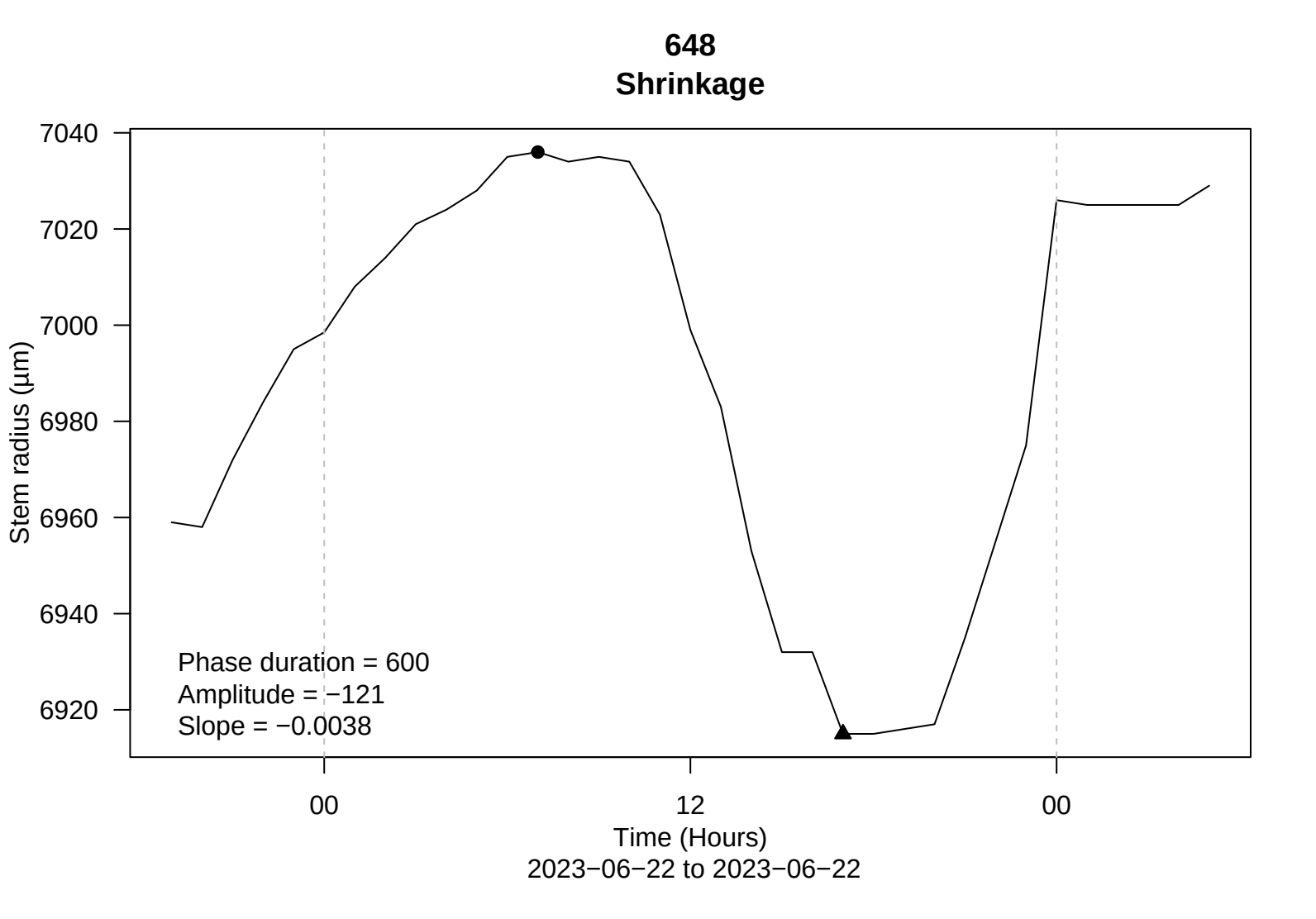

648
Expansion
7000
6950
6900
Stem radius (µm)
Phase duration = 1200
Amplitude = 132
Slope = 0.0021
12
00
12
Time (Hours)
2023−06−19 to 2023−06−20

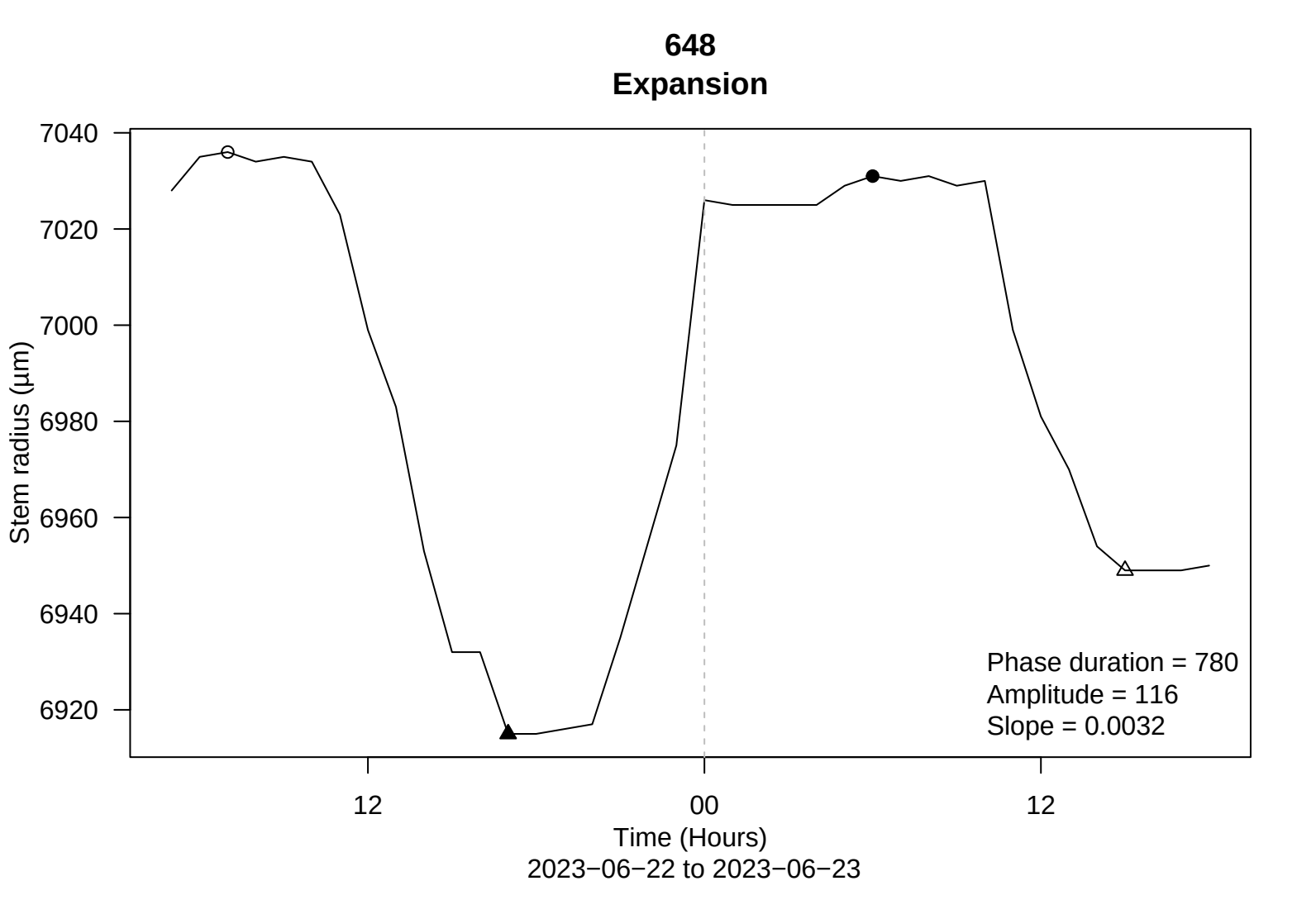

648
Shrinkage
7020
7000
6980
6960
6940
Stem radius (µm)
Phase duration = 360
Amplitude = −62
Slope = −0.0036
00
06
12
18
00
Time (Hours)
2023−06−20 to 2023−06−20

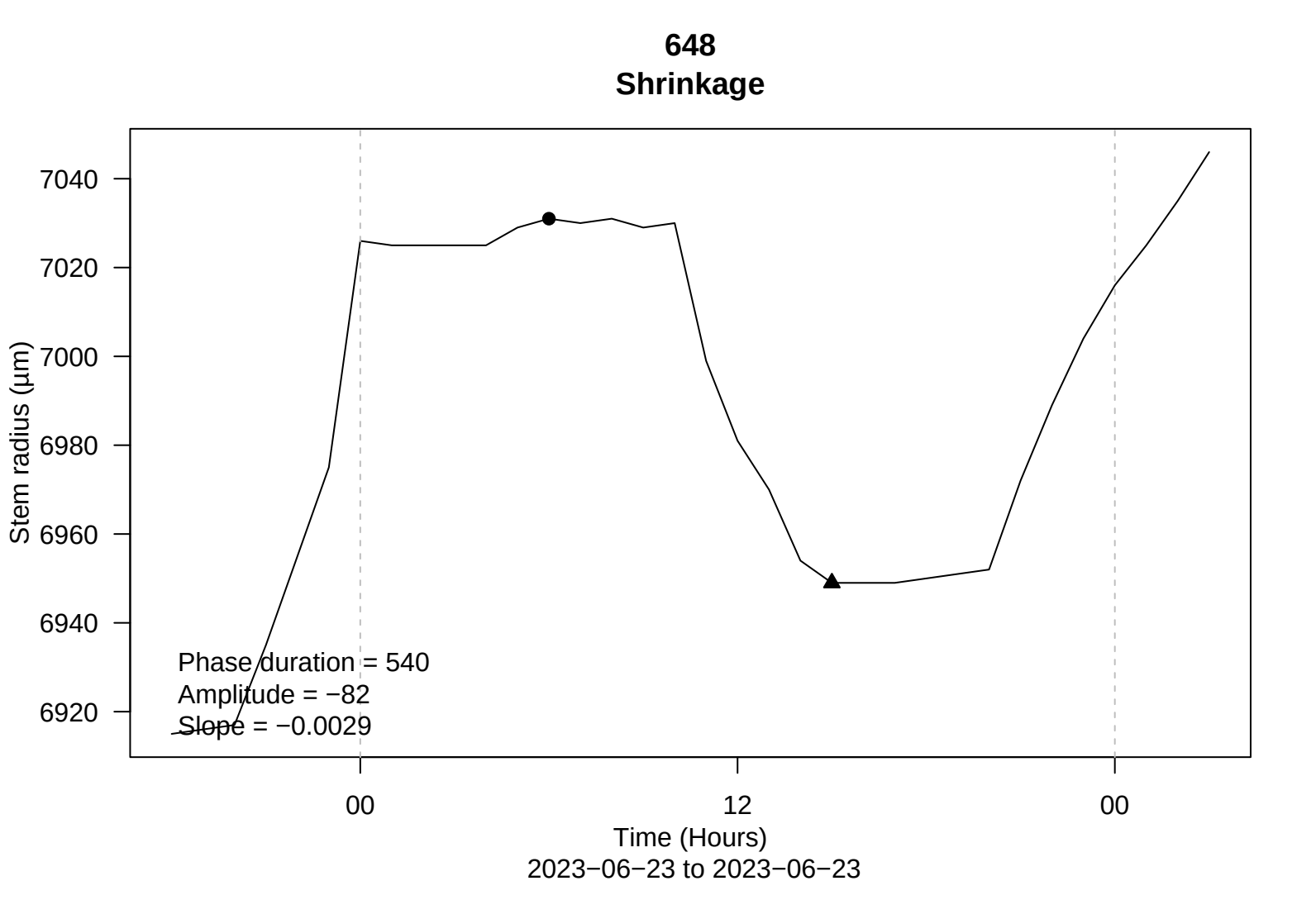

648
Expansion
7040
7020
7000
6980
6960
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−20 to 2023−06−21
Phase duration = 960
Amplitude = 66
Slope = 0.0012

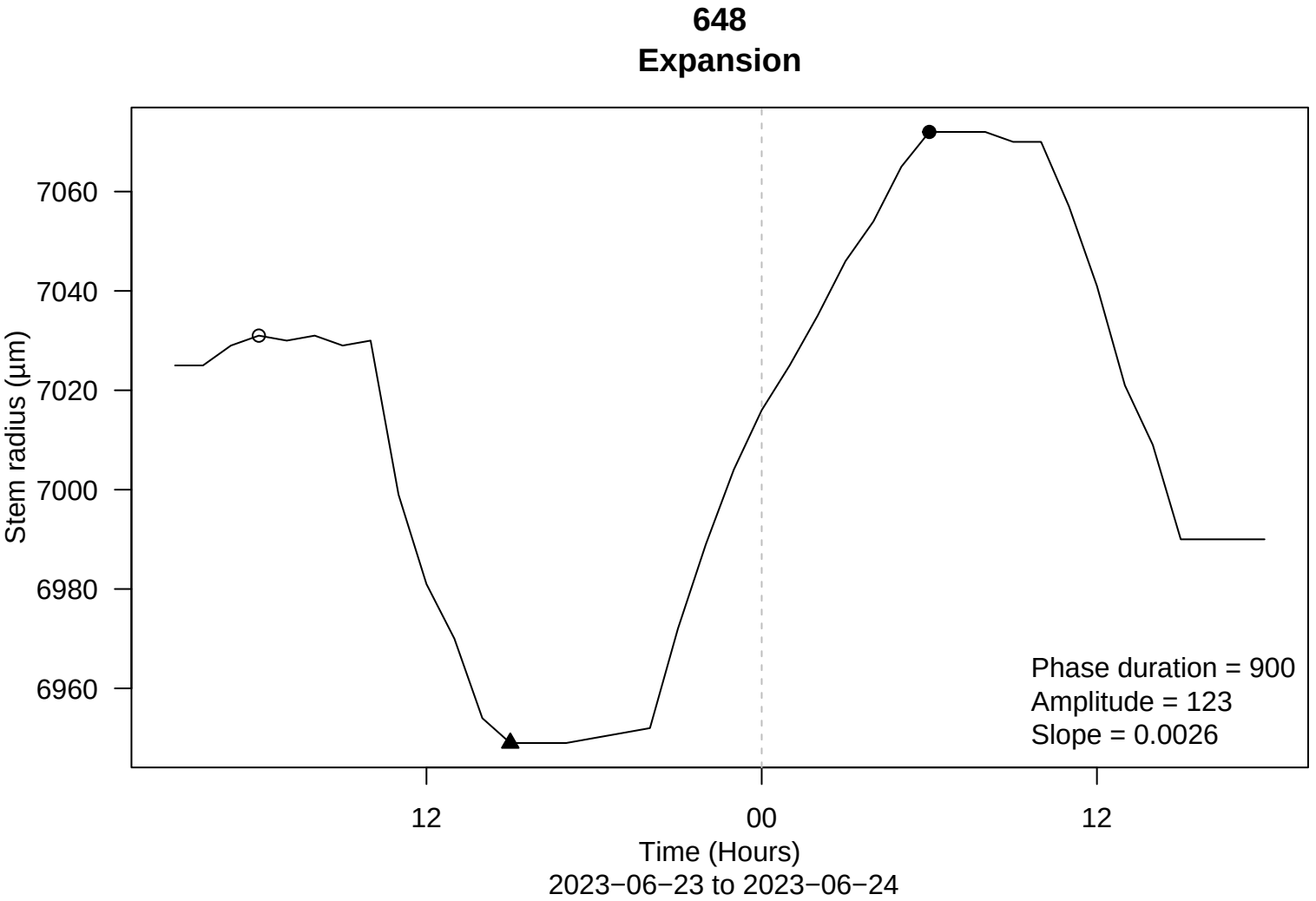

648
Shrinkage
7040
7020
7000
6980
6960
Stem radius (µm)
Phase duration = 480
Amplitude = −80
Slope = −0.0032
00
06
12
18
00
Time (Hours)
2023−06−21 to 2023−06−21

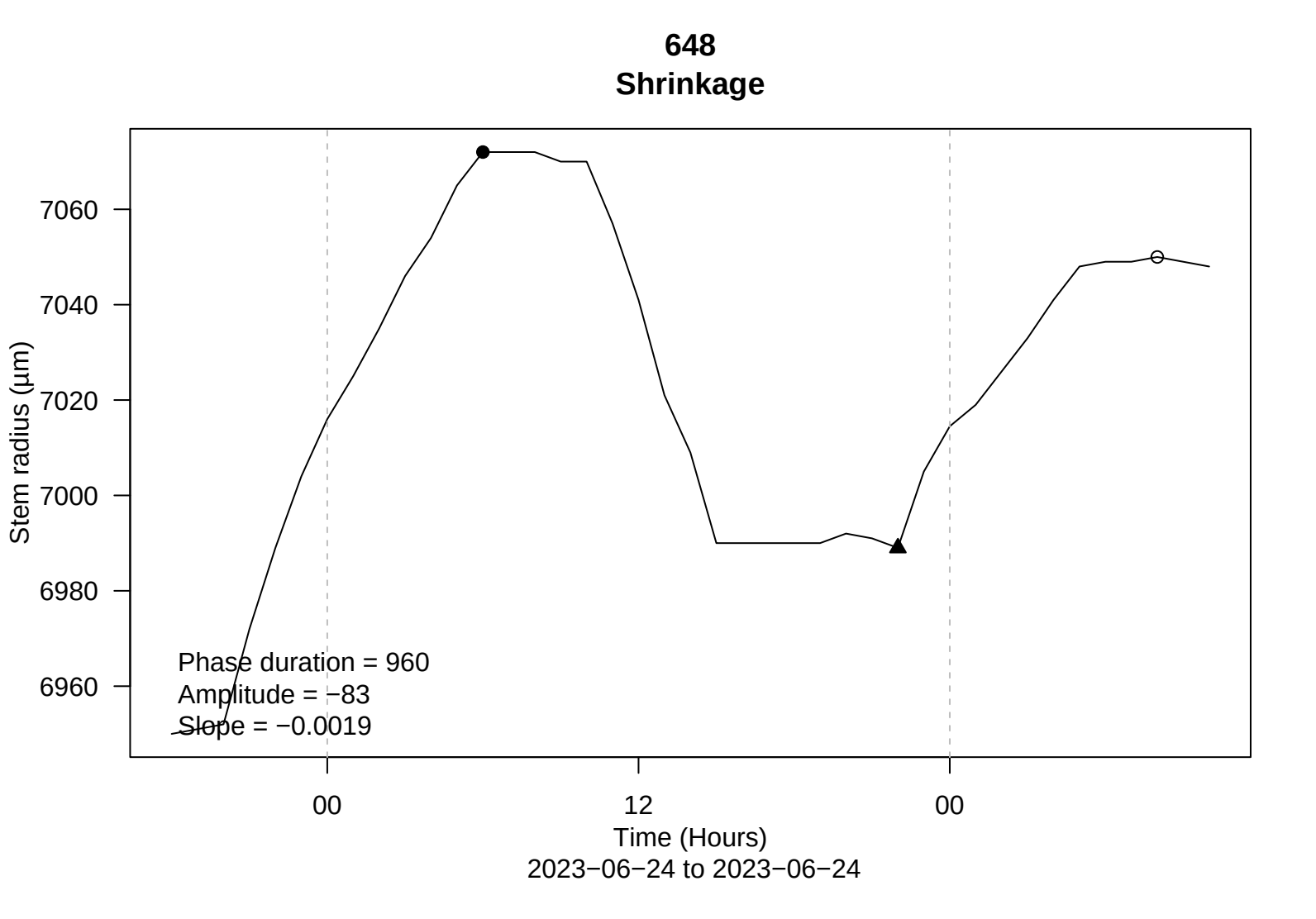

648
Expansion
7040
7020
7000
6980
6960
6940
6920
Stem radius (µm)
Phase duration = 900
Amplitude = 79
Slope = 0.0017
12
00
12
Time (Hours)
2023−06−21 to 2023−06−22

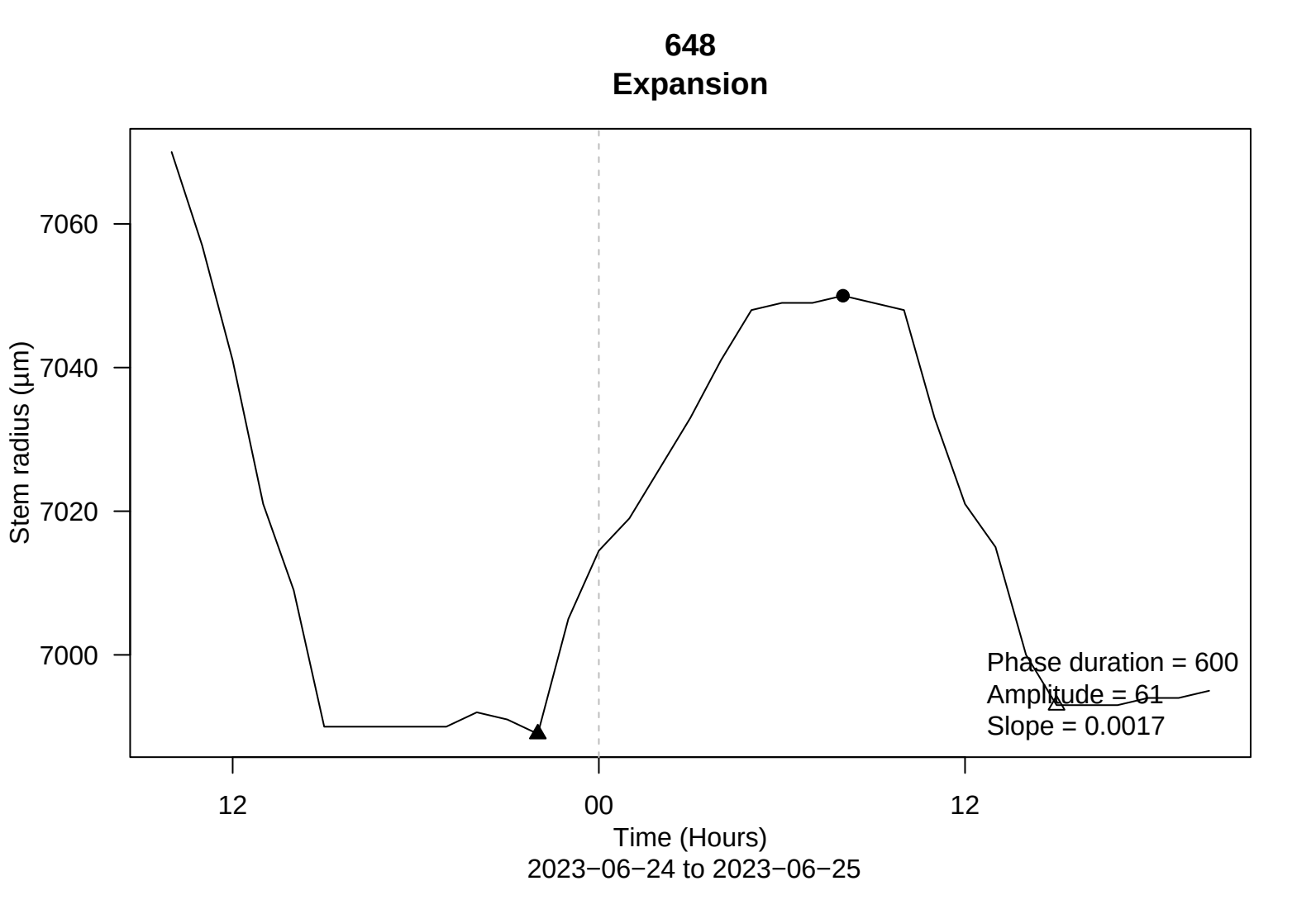

648
Shrinkage
7040
7020
7000
6980
6960
6940
6920
Stem radius (µm)
Phase duration = 600
Amplitude = −121
Slope = −0.0038
00
12
00
Time (Hours)
2023−06−22 to 2023−06−22

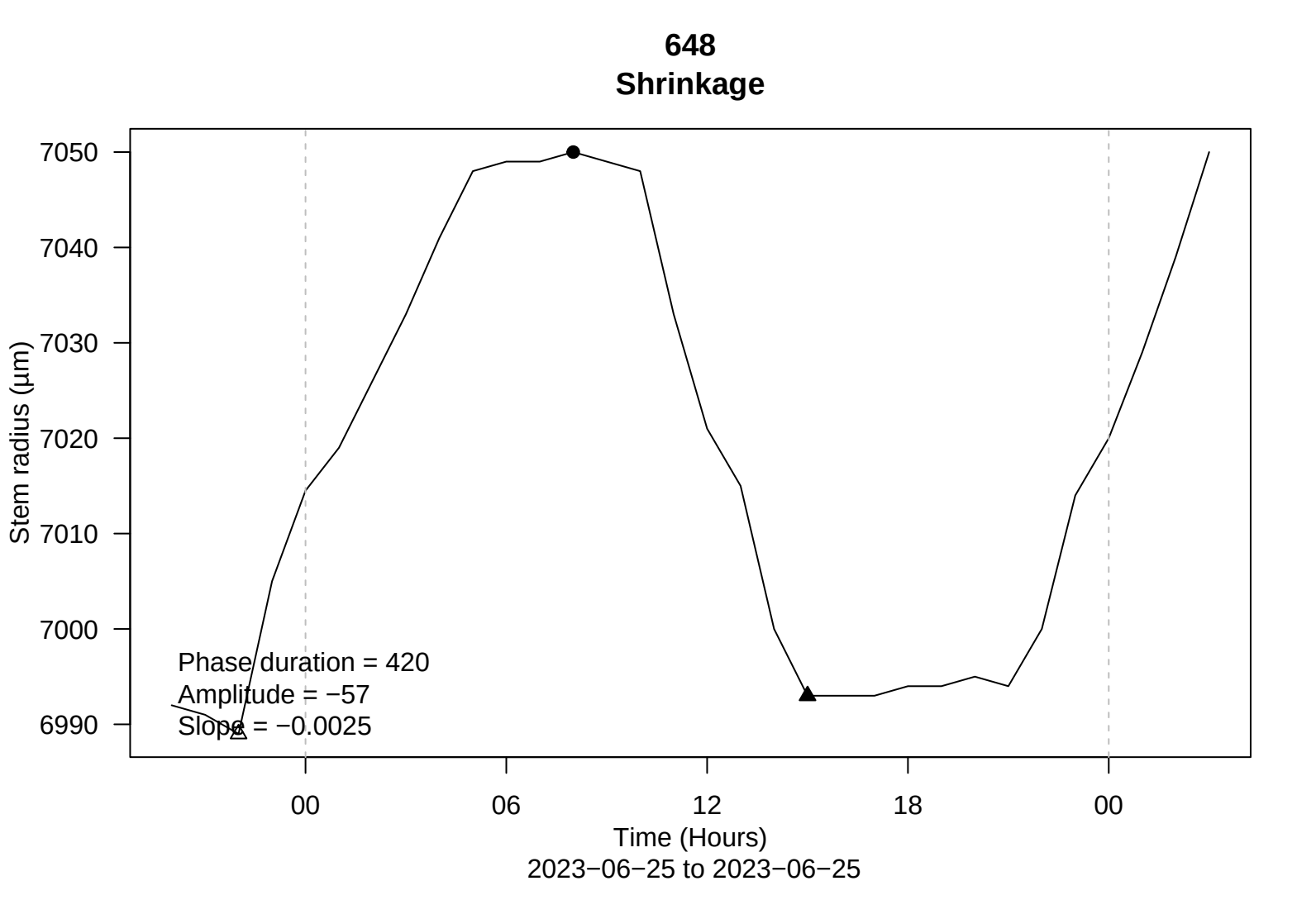

648
Expansion
7040
7020
7000
6980
6960
6940
6920
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−22 to 2023−06−23
Phase duration = 780
Amplitude = 116
Slope = 0.0032

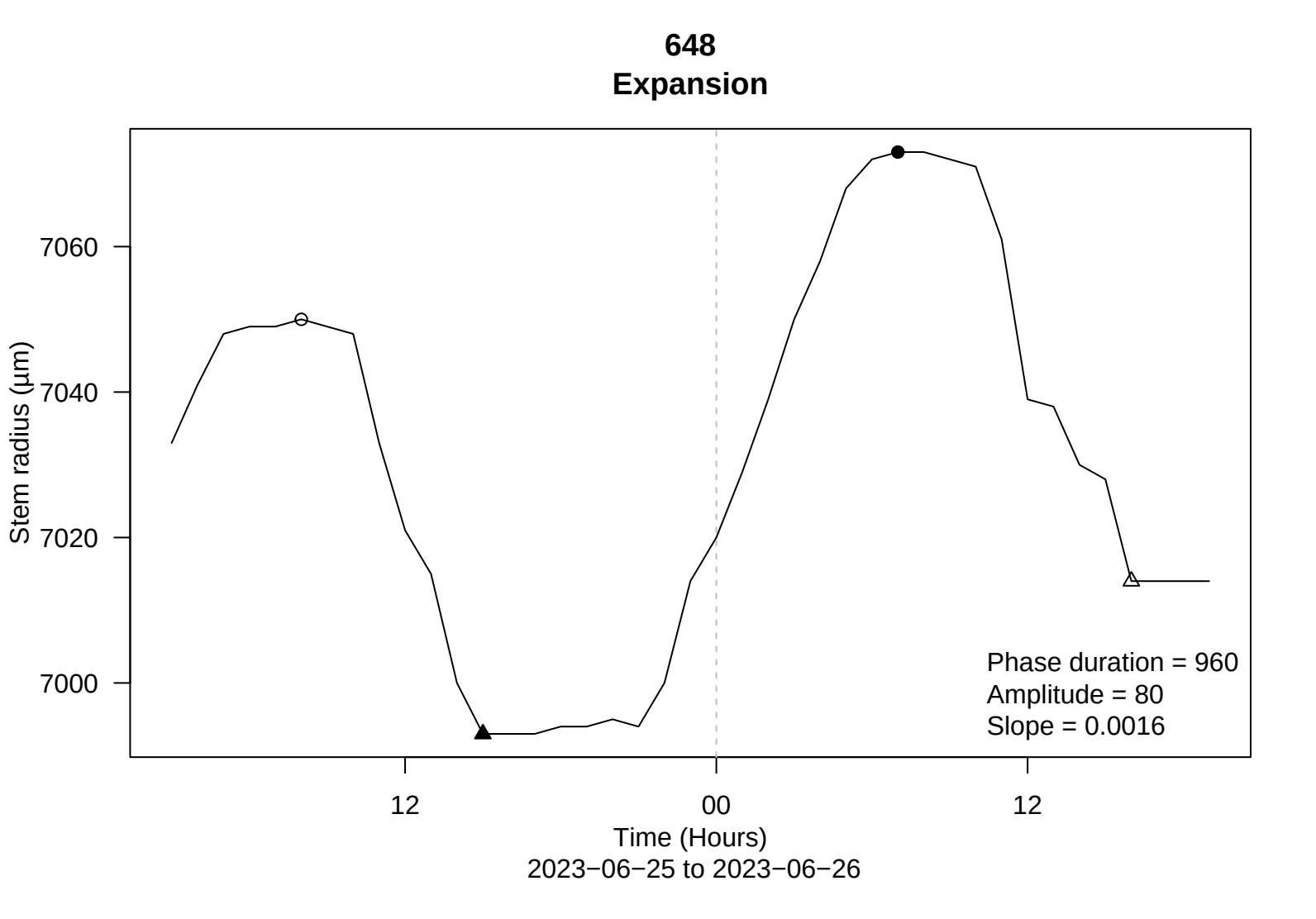

648
Shrinkage
7040
7020
7000
6980
6960
6940
6920
Stem radius (µm)
Phase duration = 540
Amplitude = −82
Slope = −0.0029
00
12
00
Time (Hours)
2023−06−23 to 2023−06−23

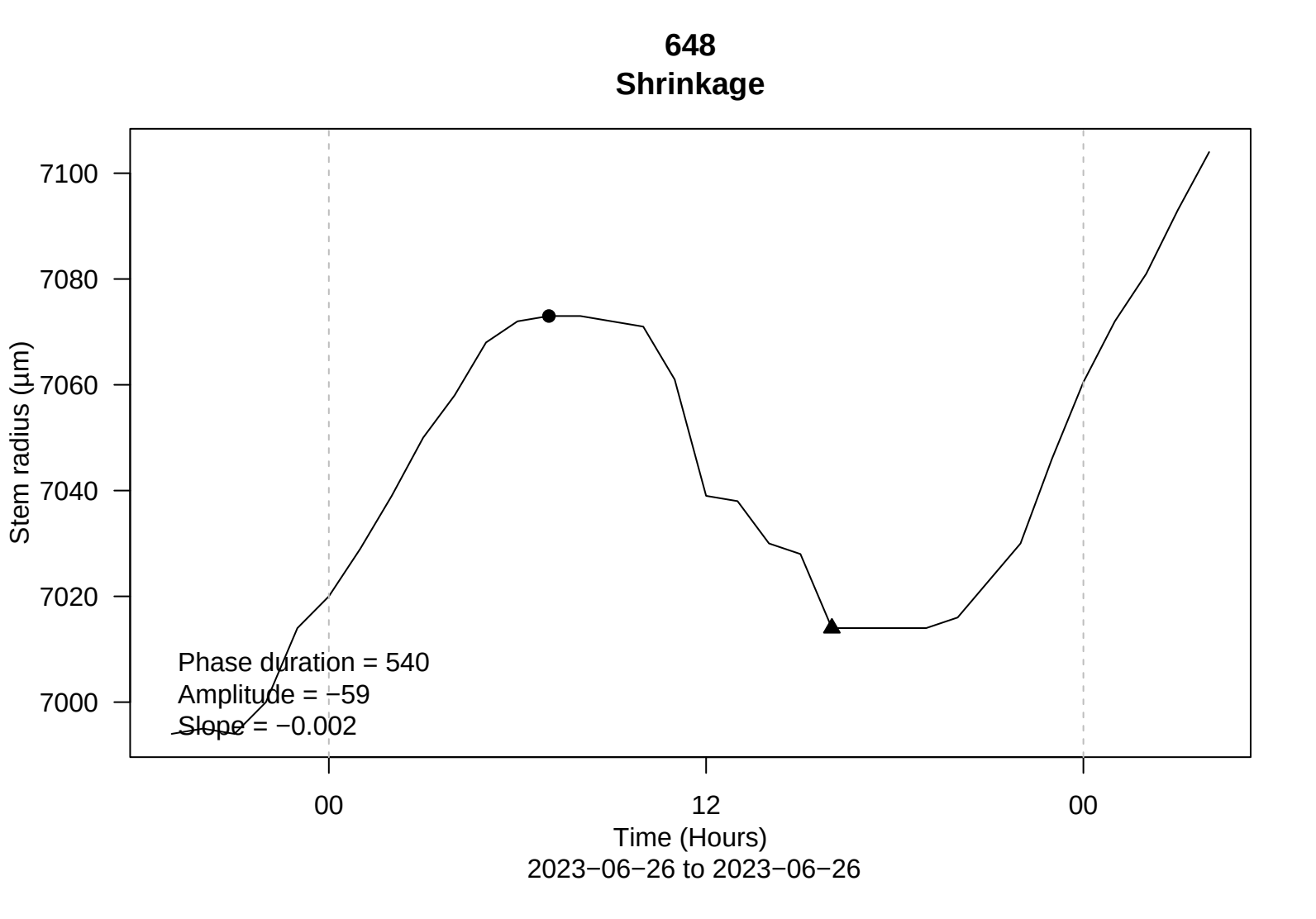

648
Expansion
7060
7040
7020
7000
6980
6960
Stem radius (µm)
Phase duration = 900
Amplitude = 123
Slope = 0.0026
12
00
12
Time (Hours)
2023−06−23 to 2023−06−24

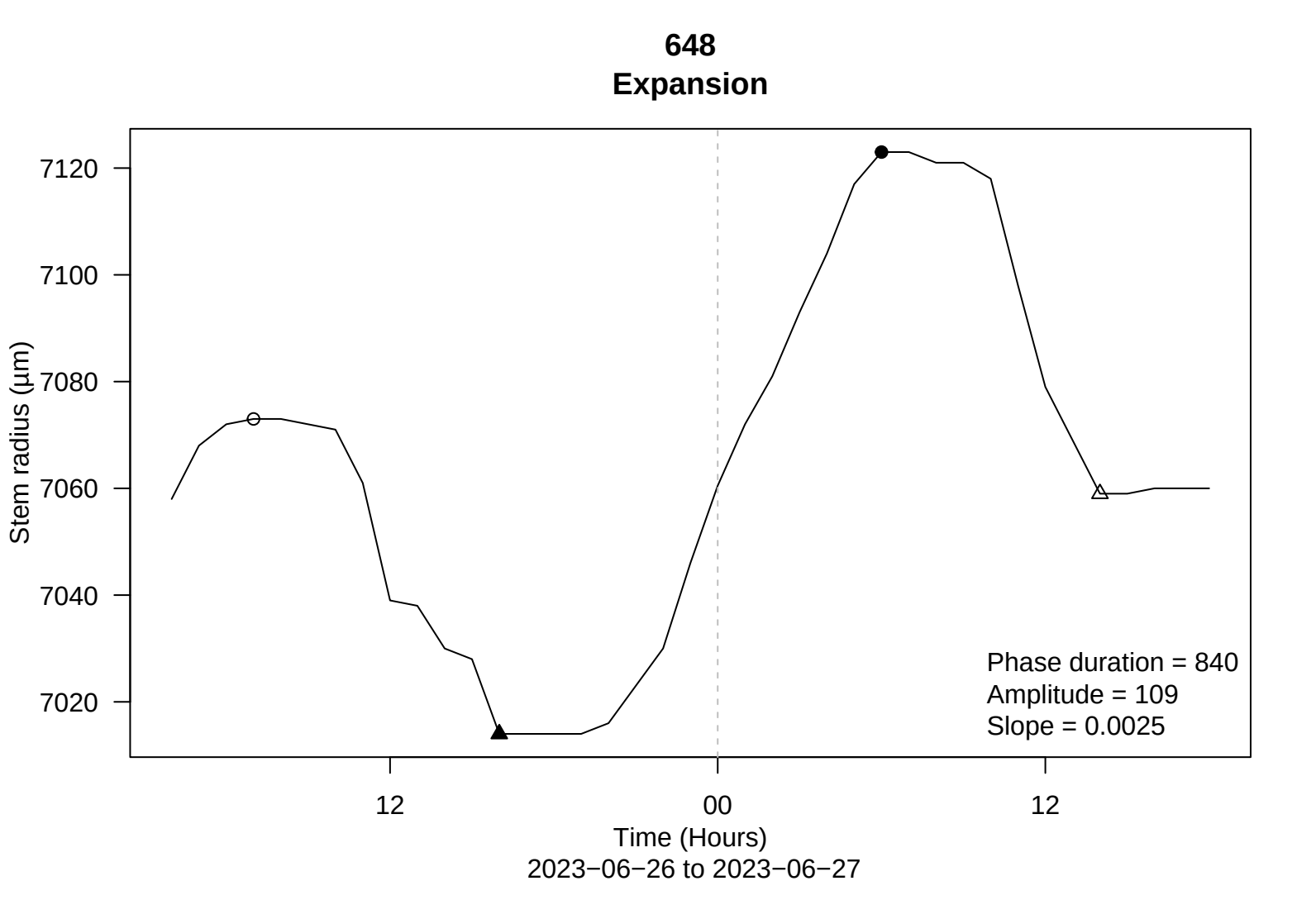

648
Shrinkage
Stem radius (µm)
7060
7040
7020
7000
6980
6960
Phase duration = 960
Amplitude = −83
Slope = −0.0019
00
12
00
Time (Hours)
2023−06−24 to 2023−06−24

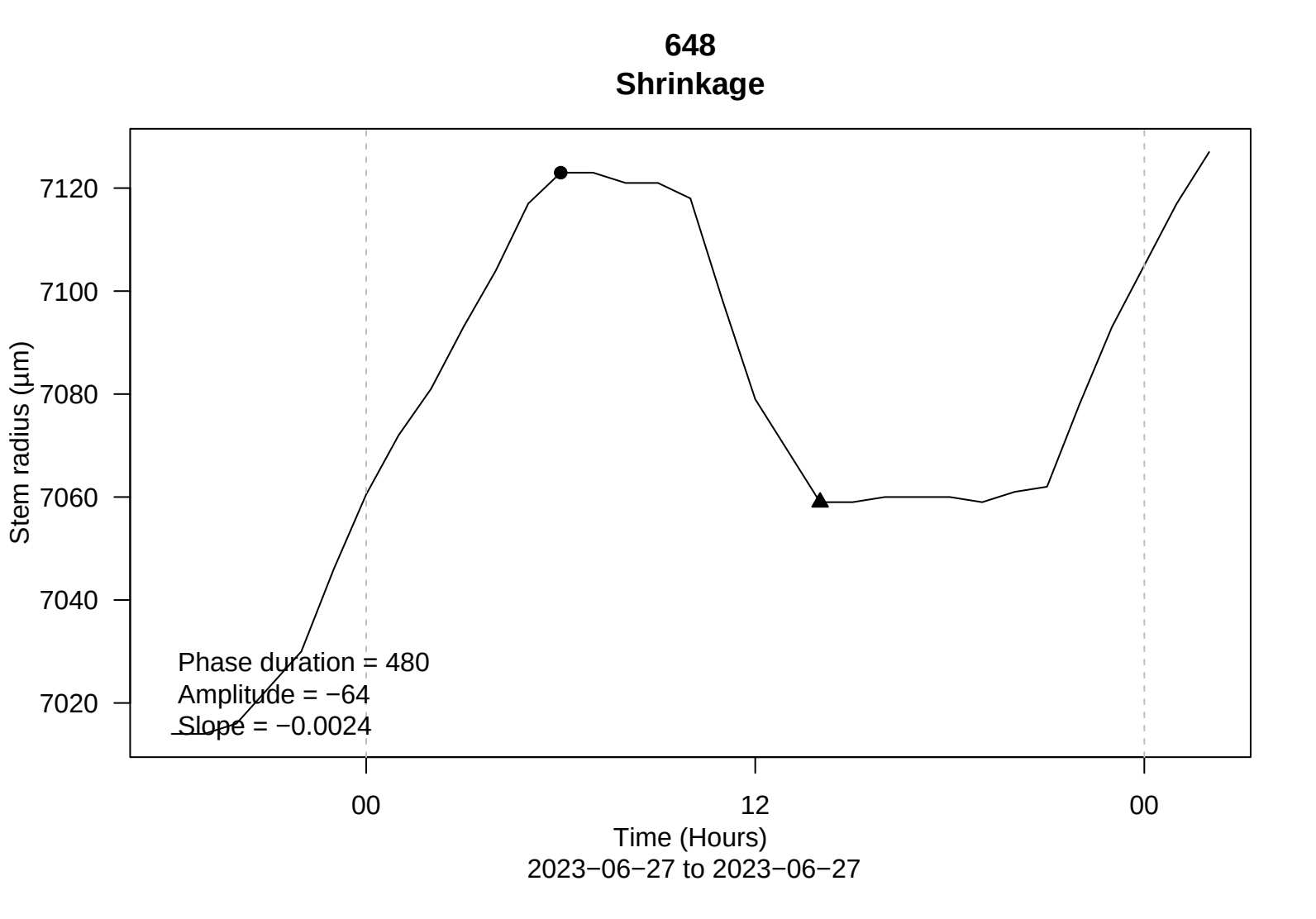

648
Expansion
7060
7040
7020
7000
Stem radius (µm)
Phase duration = 600
Amplitude = 61
Slope = 0.0017
12
00
12
Time (Hours)
2023−06−24 to 2023−06−25

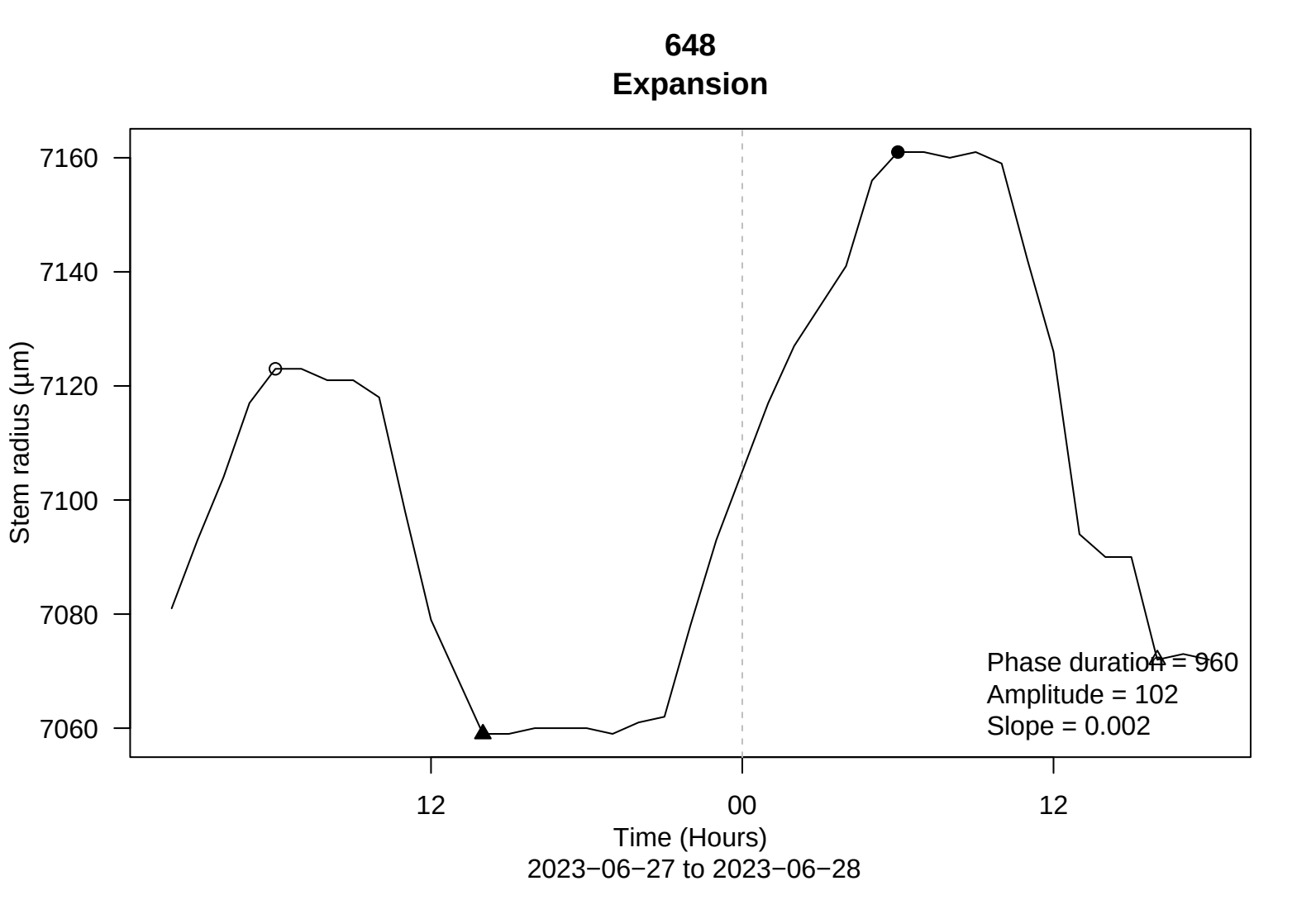

648
Shrinkage
7050
7040
7030
7020
7010
7000
6990
Stem radius (µm)
Phase duration = 420
Amplitude = −57
Slope = −0.0025
00
06
12
18
00
Time (Hours)
2023−06−25 to 2023−06−25

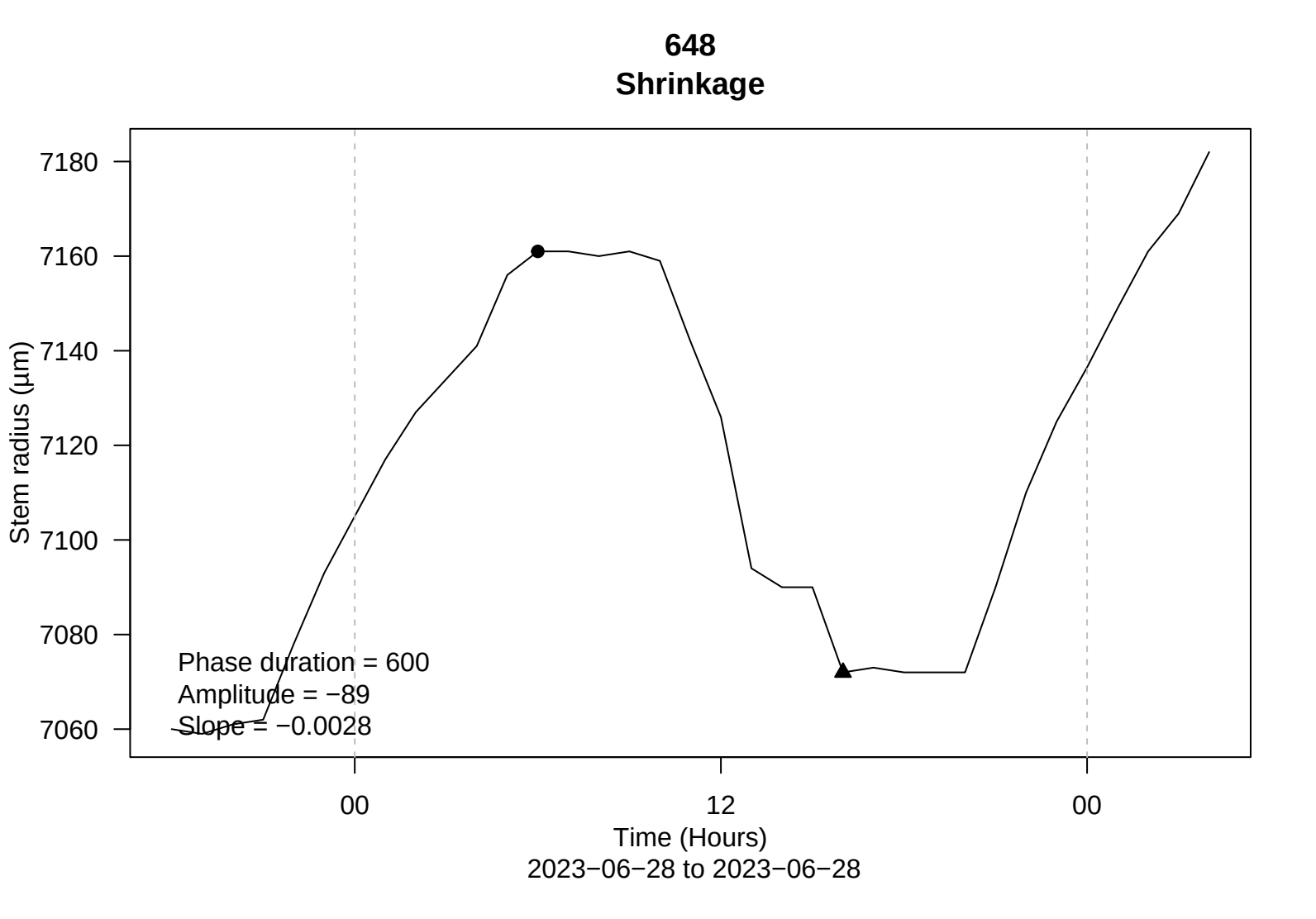

648
Expansion
7060
7040
7020
7000
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−25 to 2023−06−26
Phase duration = 960
Amplitude = 80
Slope = 0.0016

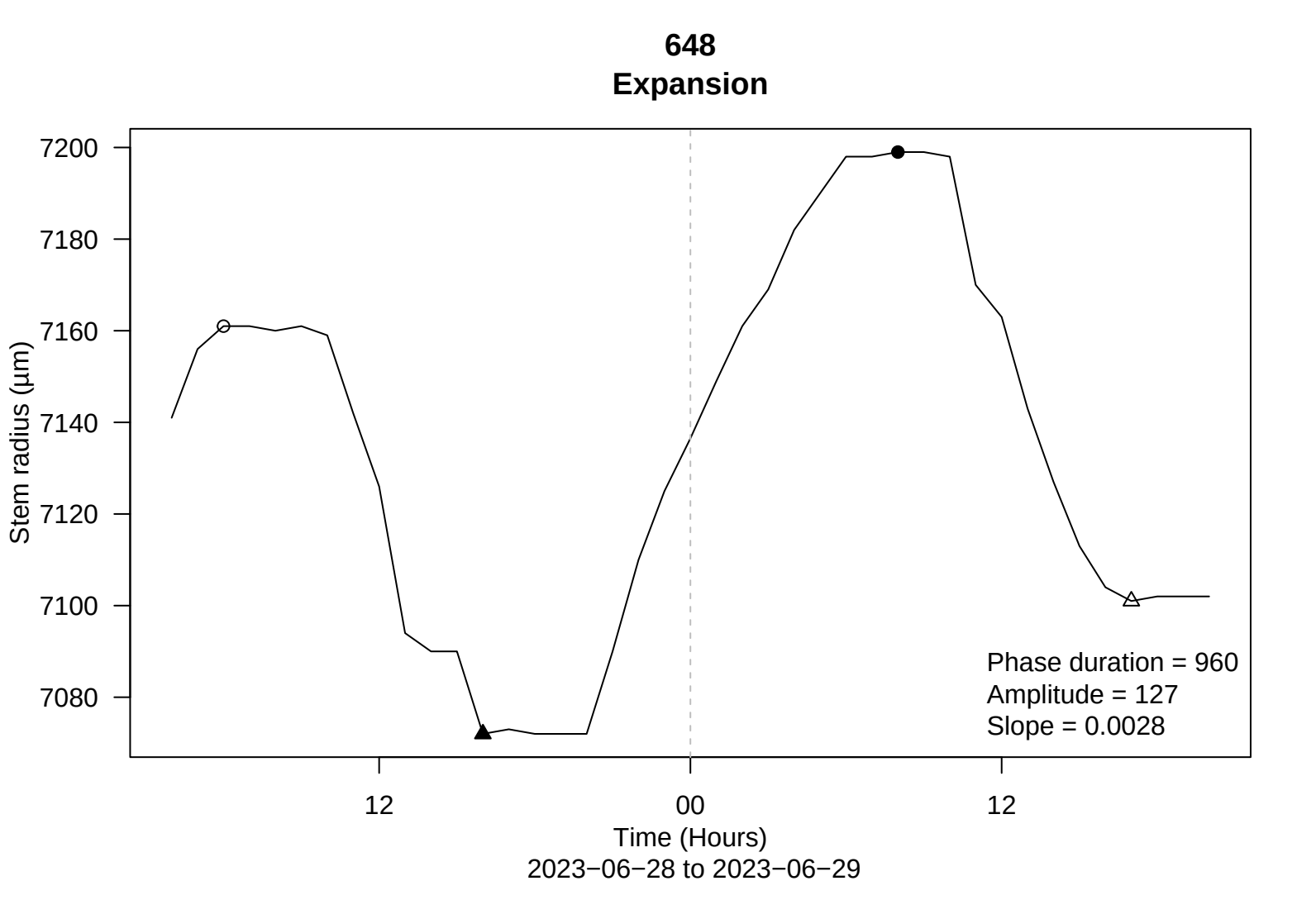

648
Shrinkage
7100
7080
7060
7040
7020
7000
Stem radius (µm)
Phase duration = 540
Amplitude = −59
Slope = −0.002
00
12
00
Time (Hours)
2023−06−26 to 2023−06−26

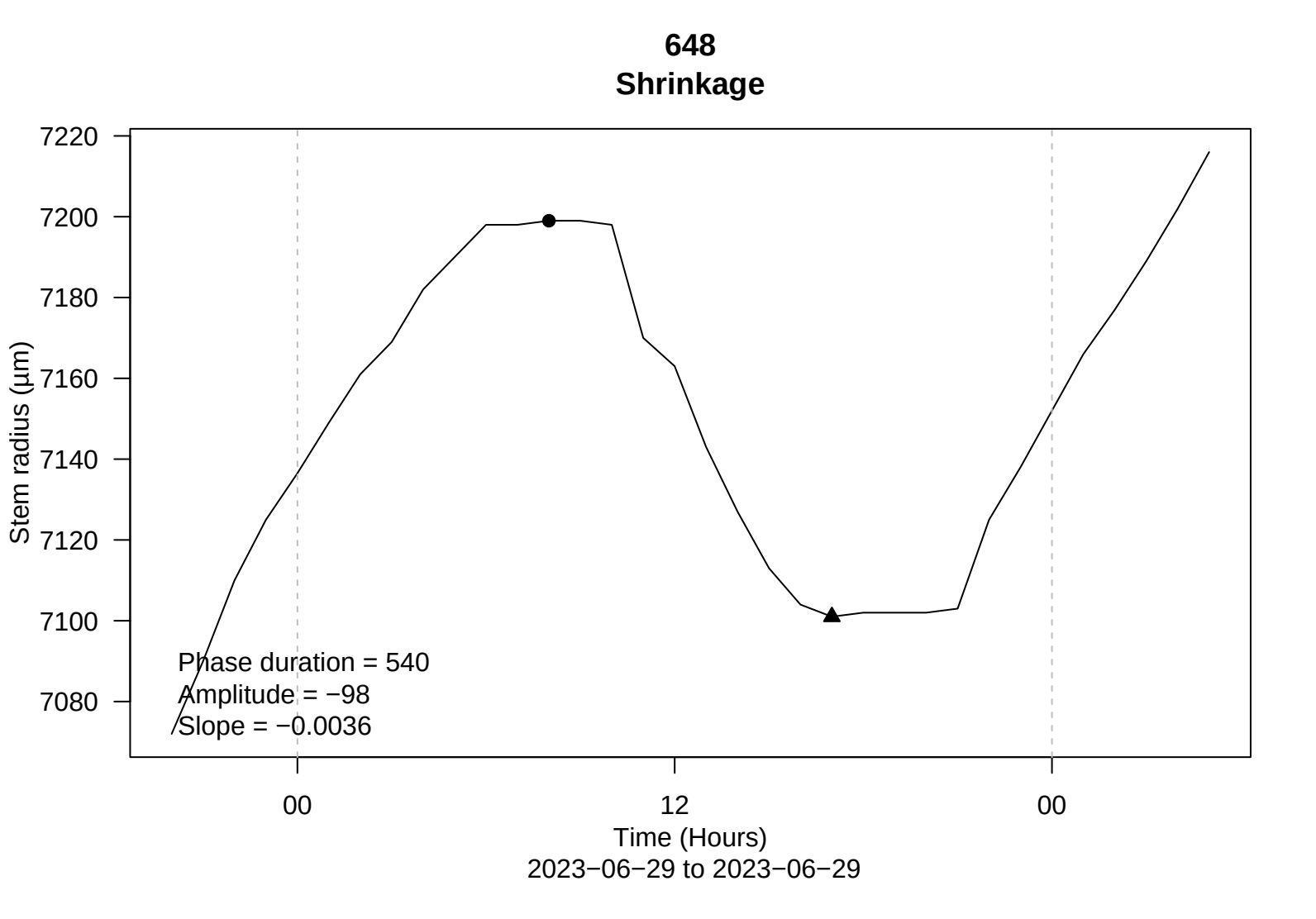

648
Expansion
7120
7100
7080
7060
7040
7020
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−26 to 2023−06−27
Phase duration = 840
Amplitude = 109
Slope = 0.0025

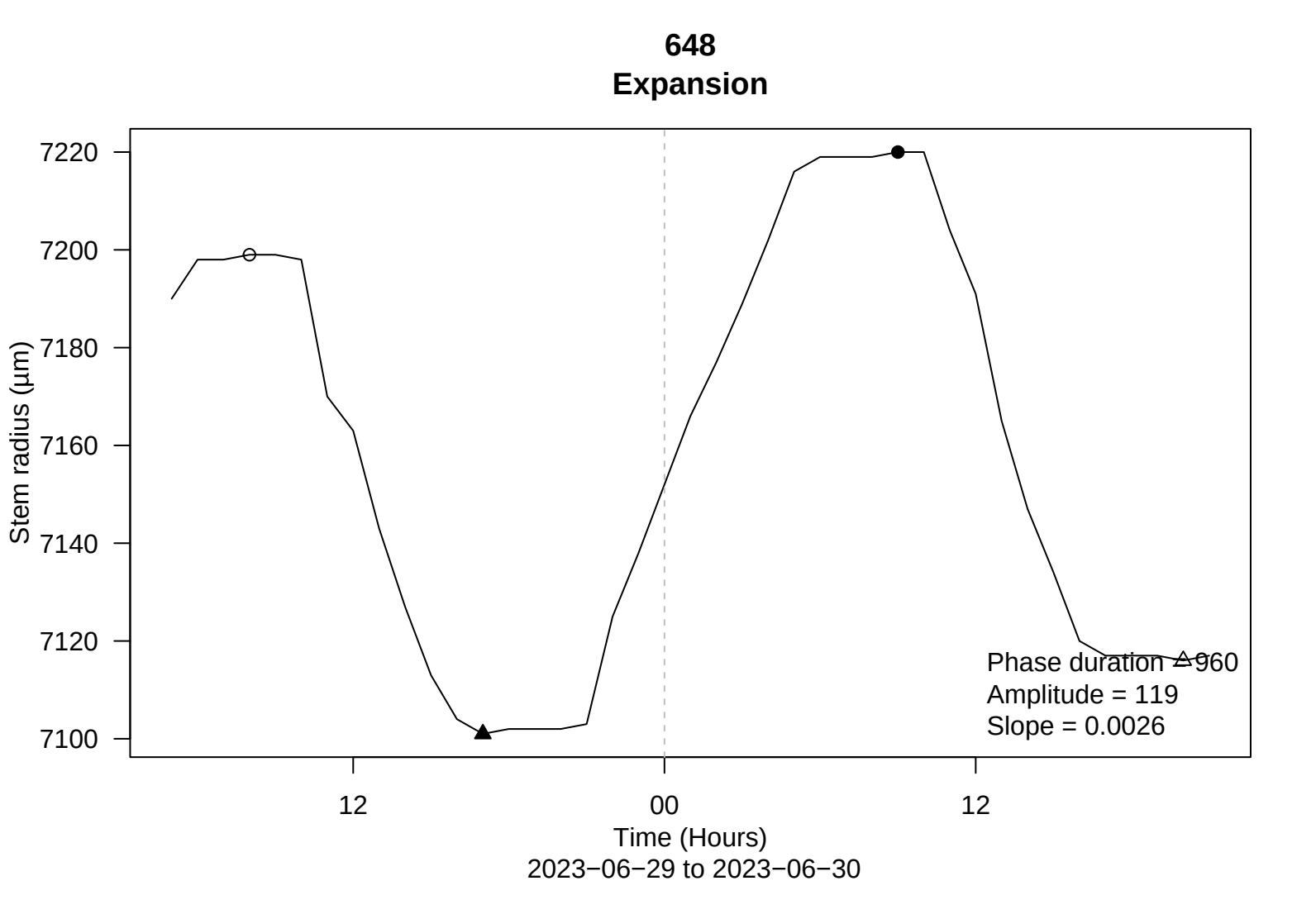

648
Shrinkage
7120
7100
7080
7060
7040
7020
Stem radius (µm)
Phase duration = 480
Amplitude = −64
Slope = −0.0024
00
12
00
Time (Hours)
2023−06−27 to 2023−06−27

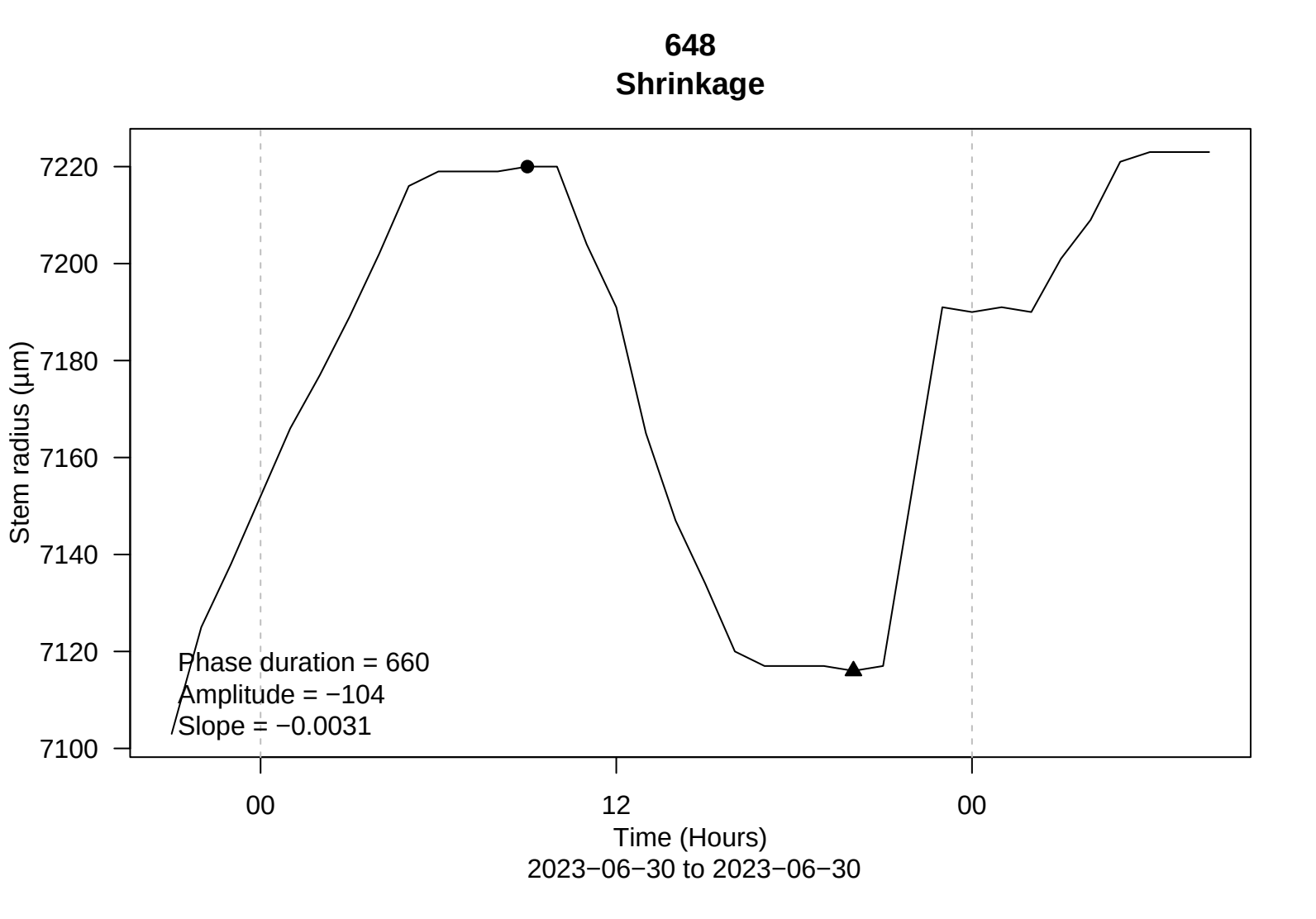

648
Expansion
7160
7140
7120
7100
7080
7060
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−27 to 2023−06−28
Phase duration = 960
Amplitude = 102
Slope = 0.002

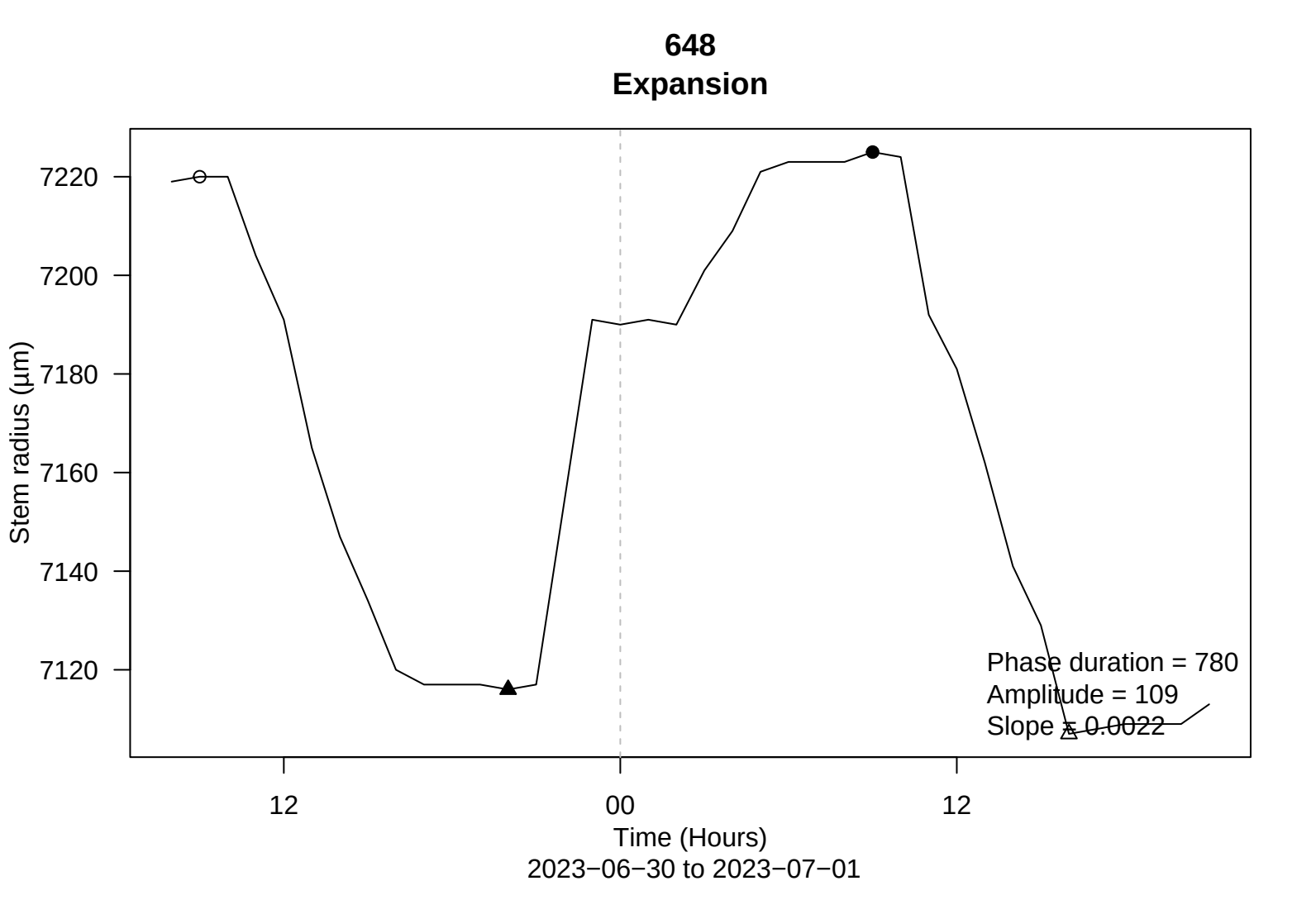

648
Shrinkage
7180
7160
7140
7120
7100
7080
7060
Stem radius (µm)
Phase duration = 600
Amplitude = −89
Slope = −0.0028
00
12
00
Time (Hours)
2023−06−28 to 2023−06−28

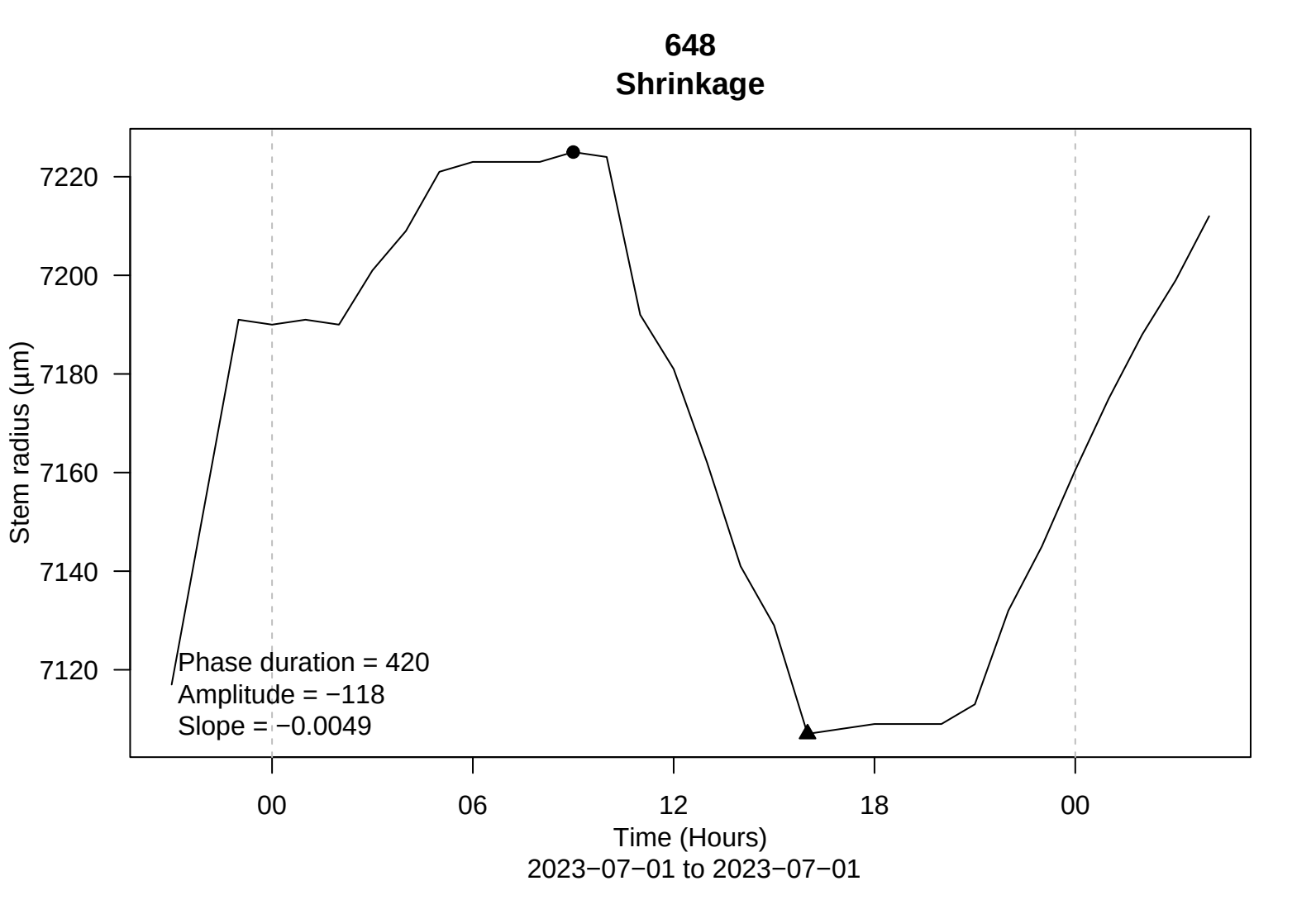

648
Expansion
7200
7180
7160
7140
7120
7100
7080
Stem radius (µm)
Phase duration = 960
Amplitude = 127
Slope = 0.0028
12
00
12
Time (Hours)
2023−06−28 to 2023−06−29

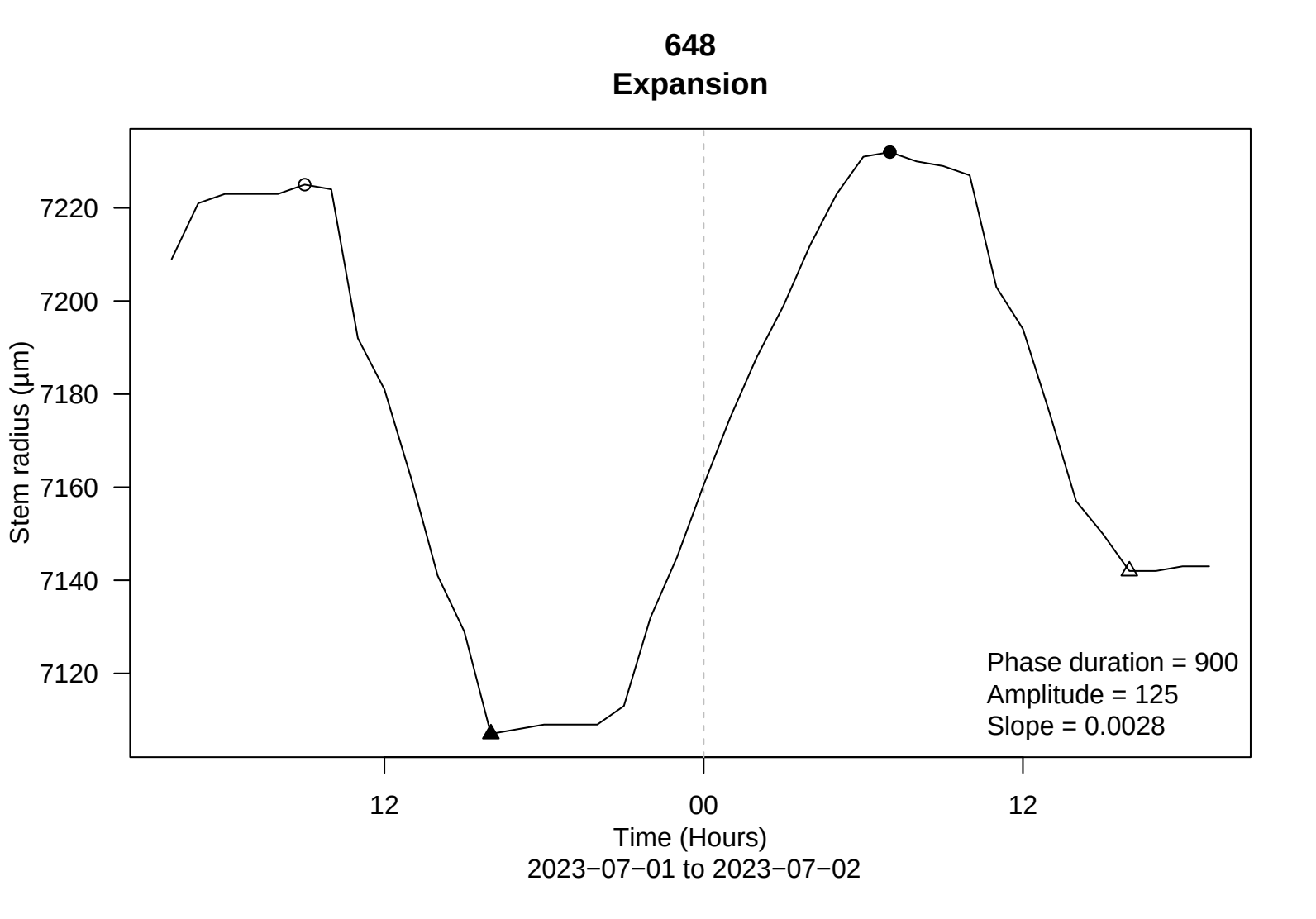

648
Shrinkage
7220
7200
7180
7160
7140
7120
7100
7080
Stem radius (µm)
Phase duration = 540
Amplitude = −98
Slope = −0.0036
00
12
00
Time (Hours)
2023−06−29 to 2023−06−29

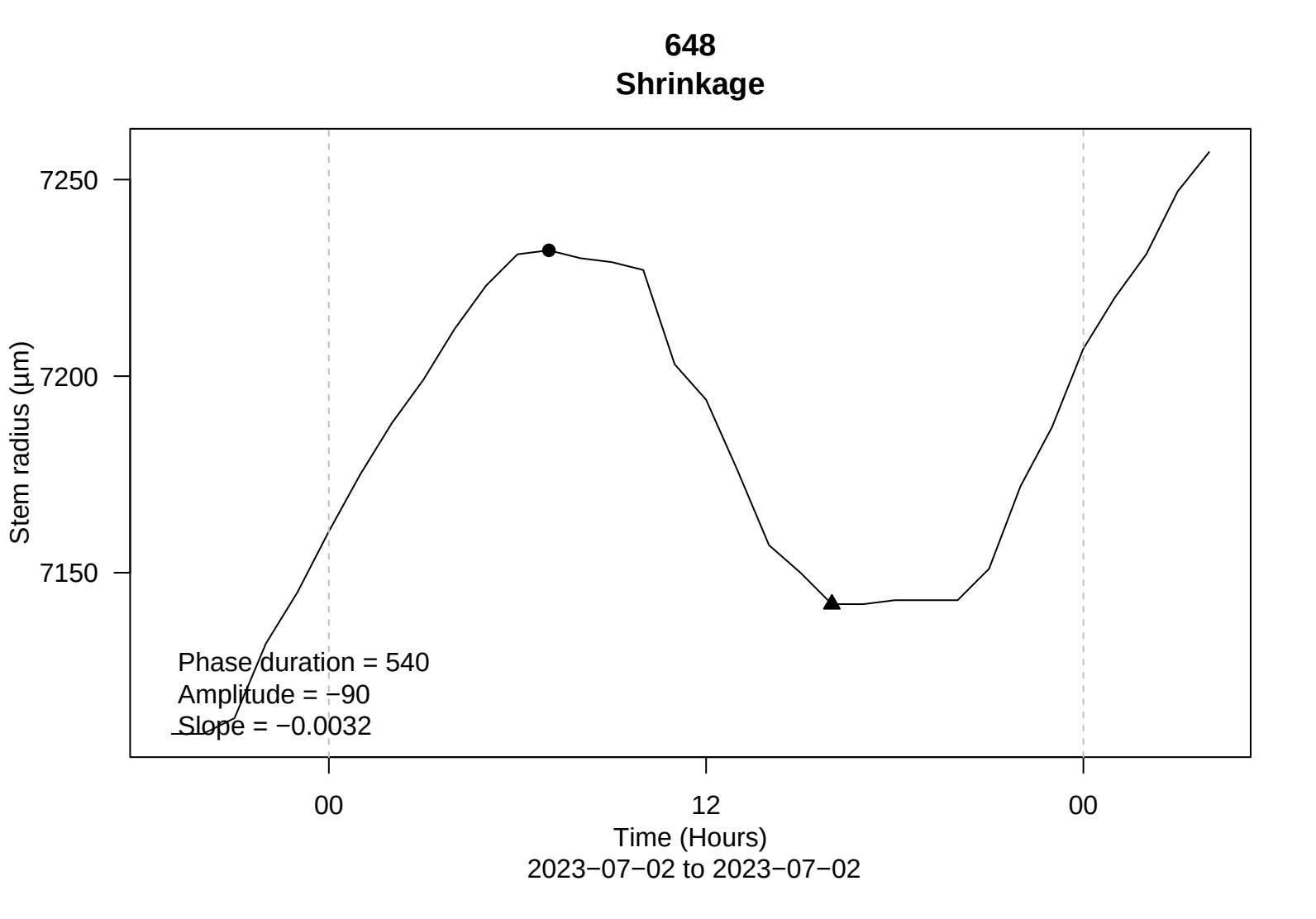

648
Expansion
7220
7200
7180
7160
7140
7120
7100
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−29 to 2023−06−30
Phase duration = 960
Amplitude = 119
Slope = 0.0026

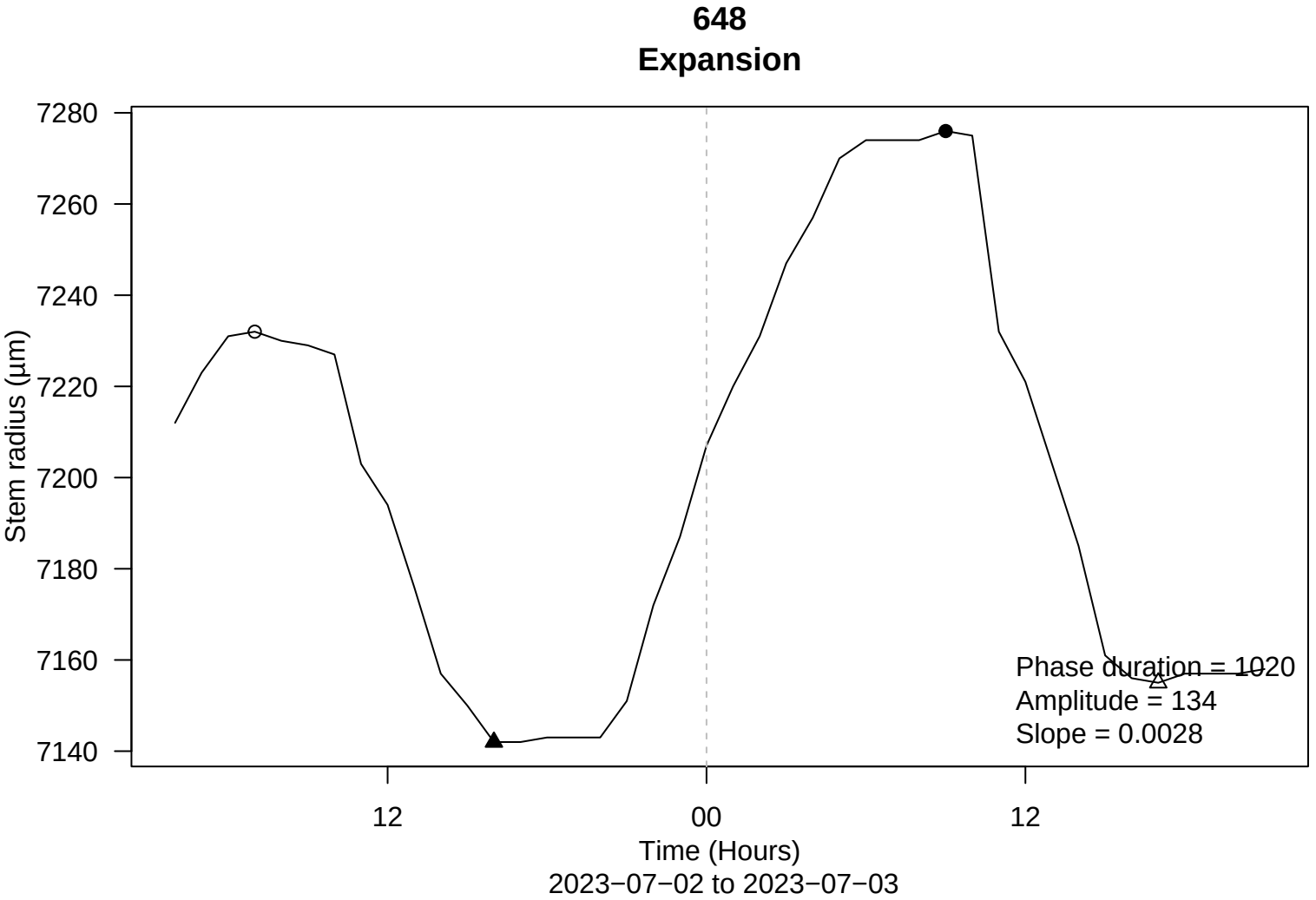

648
Shrinkage
7220
7200
7180
7160
7140
7120
7100
Stem radius (µm)
Phase duration = 660
Amplitude = −104
Slope = −0.0031
00
12
00
Time (Hours)
2023−06−30 to 2023−06−30

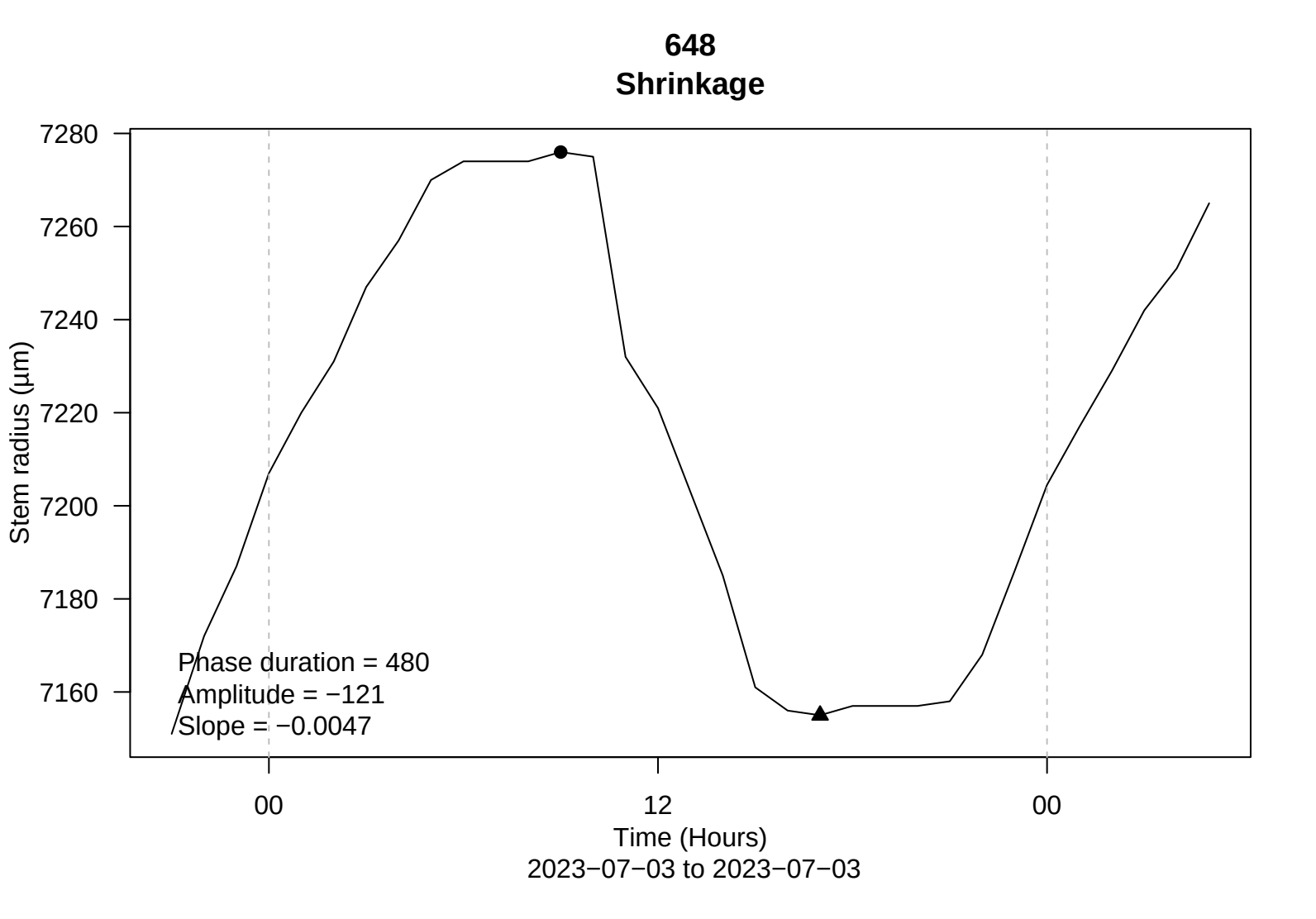

648
Expansion
7220
7200
7180
7160
7140
7120
Stem radius (µm)
12
00
12
Time (Hours)
2023−06−30 to 2023−07−01
Phase duration = 780
Amplitude = 109
Slope = 0.0022

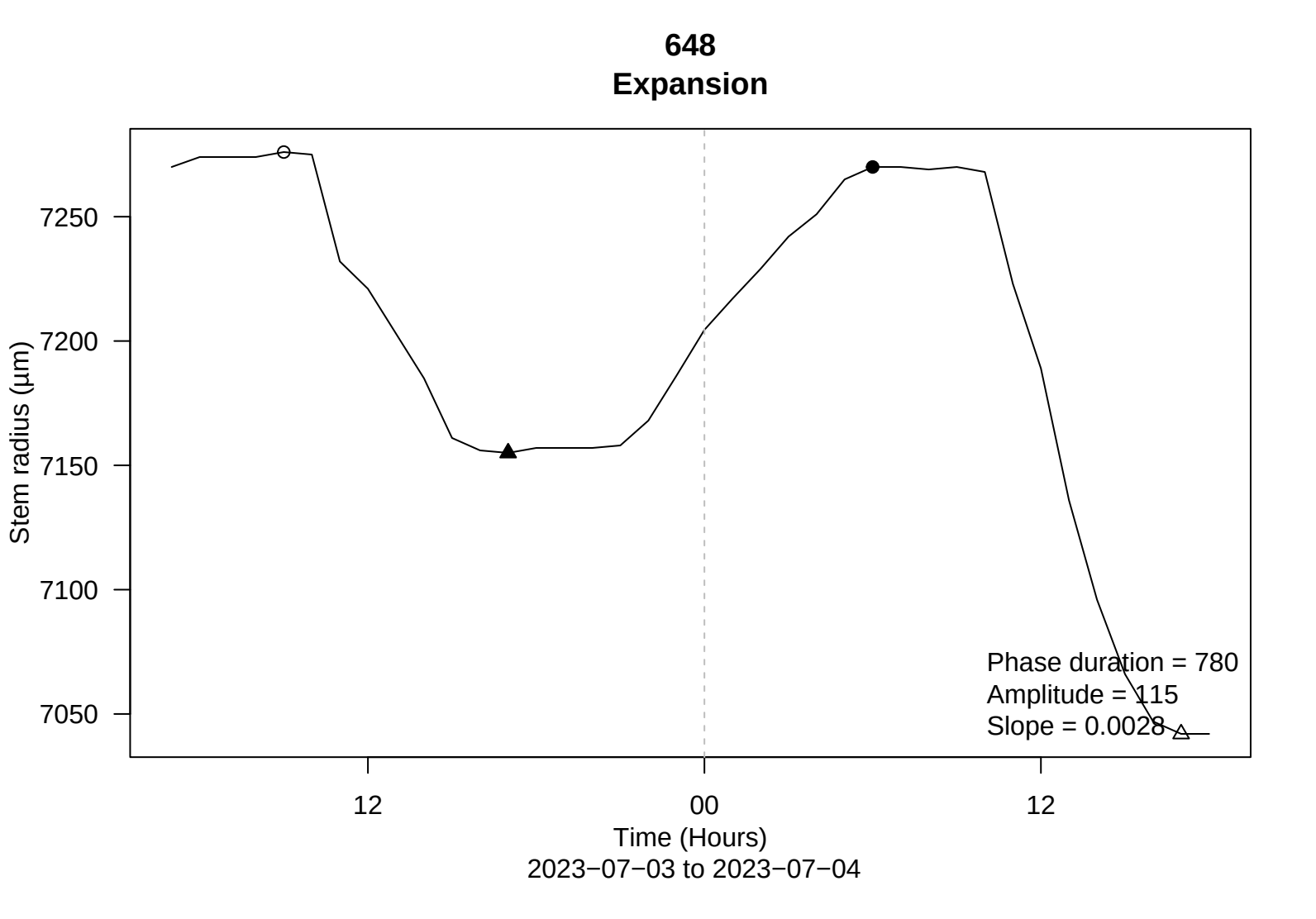

648
Shrinkage
7220
7200
7180
7160
7140
7120
Stem radius (µm)
Phase duration = 420
Amplitude = −118
Slope = −0.0049
00
06
12
18
00
Time (Hours)
2023−07−01 to 2023−07−01

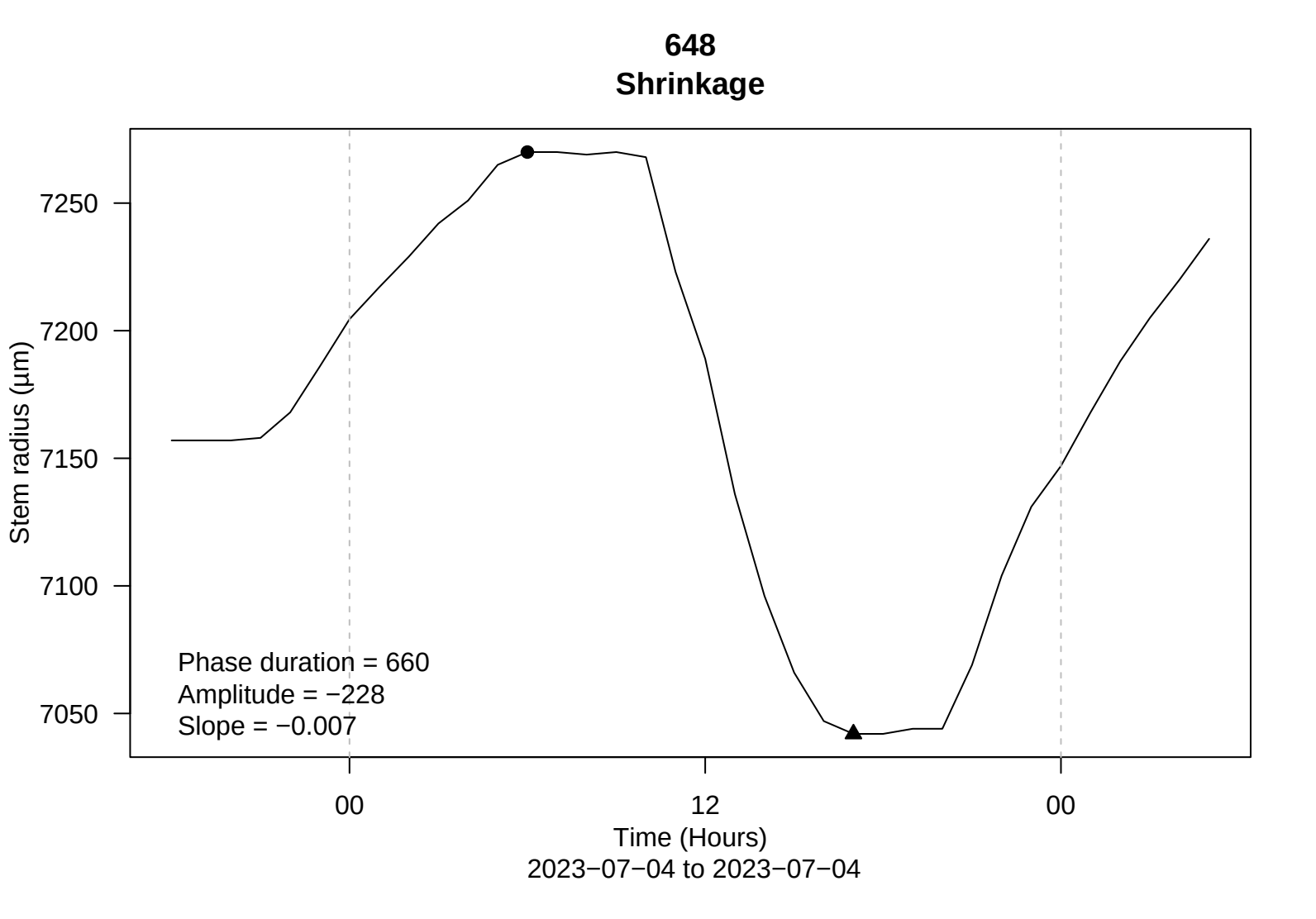

648
Expansion
7220
7200
7180
7160
7140
7120
Stem radius (µm)
Phase duration = 900
Amplitude = 125
Slope = 0.0028
12
00
12
Time (Hours)
2023−07−01 to 2023−07−02

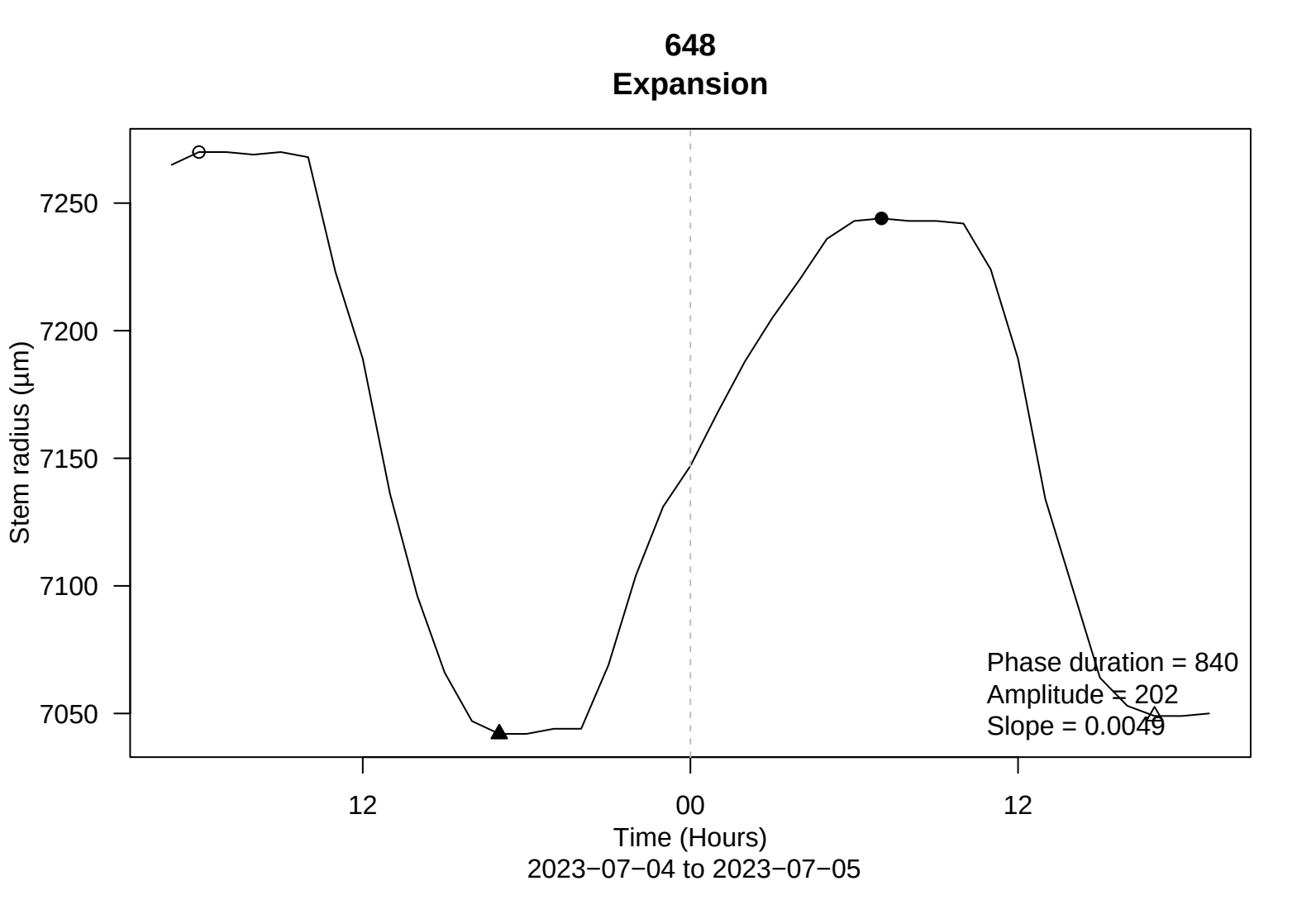

648
Shrinkage
7250
7200
7150
Stem radius (µm)
Phase duration = 540
Amplitude = −90
Slope = −0.0032
00
12
00
Time (Hours)
2023−07−02 to 2023−07−02

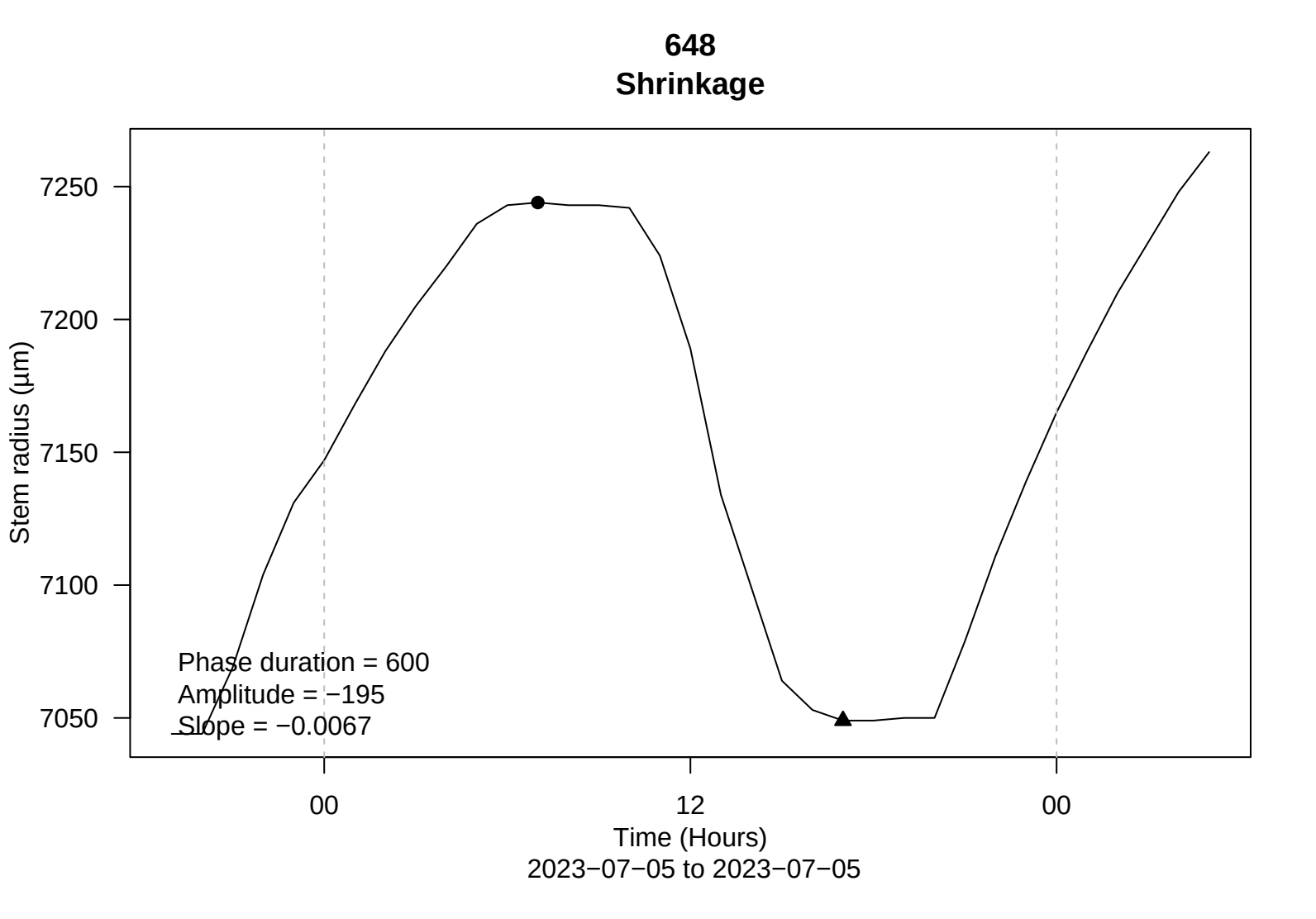

648
Expansion
7280
7260
7240
7220
7200
7180
7160
7140
Stem radius (µm)
Phase duration = 1020
Amplitude = 134
Slope = 0.0028
12
00
12
Time (Hours)
2023−07−02 to 2023−07−03

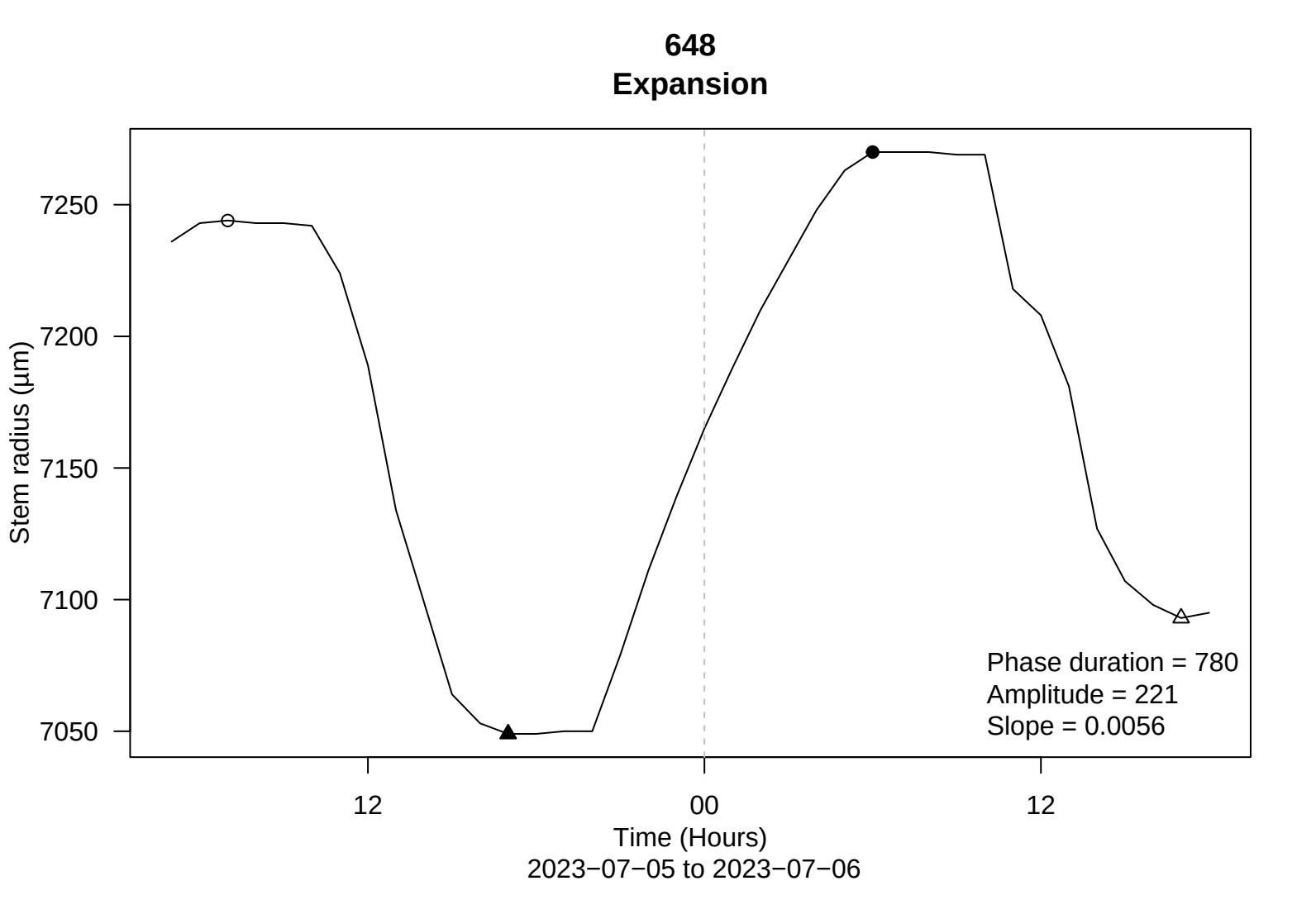

648
Shrinkage
7280
7260
7240
7220
7200
7180
7160
Stem radius (µm)
Phase duration = 480
Amplitude = −121
Slope = −0.0047
00
12
00
Time (Hours)
2023−07−03 to 2023−07−03

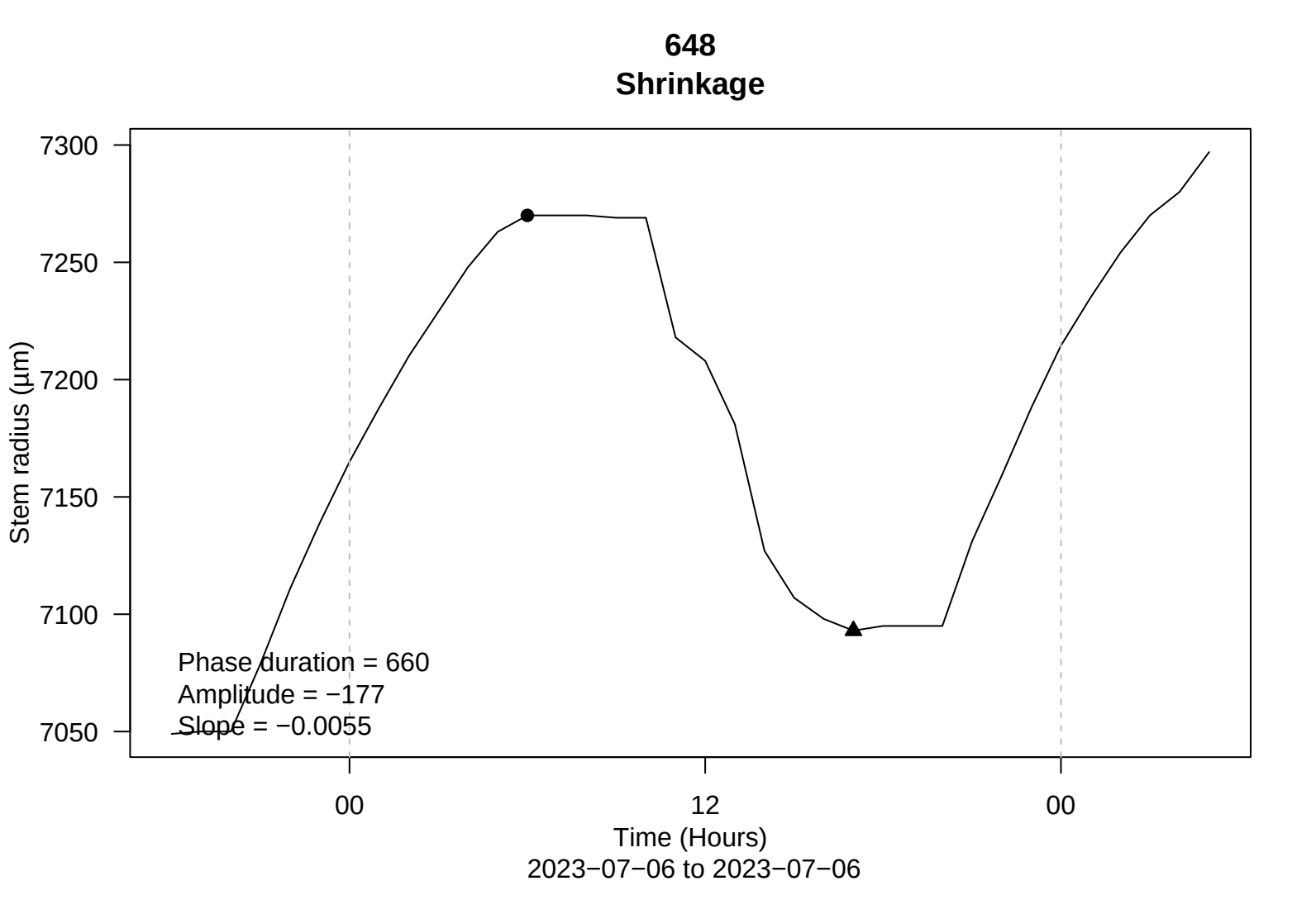

648
Expansion
7250
7200
7150
7100
7050
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−03 to 2023−07−04
Phase duration = 780
Amplitude = 115
Slope = 0.0028

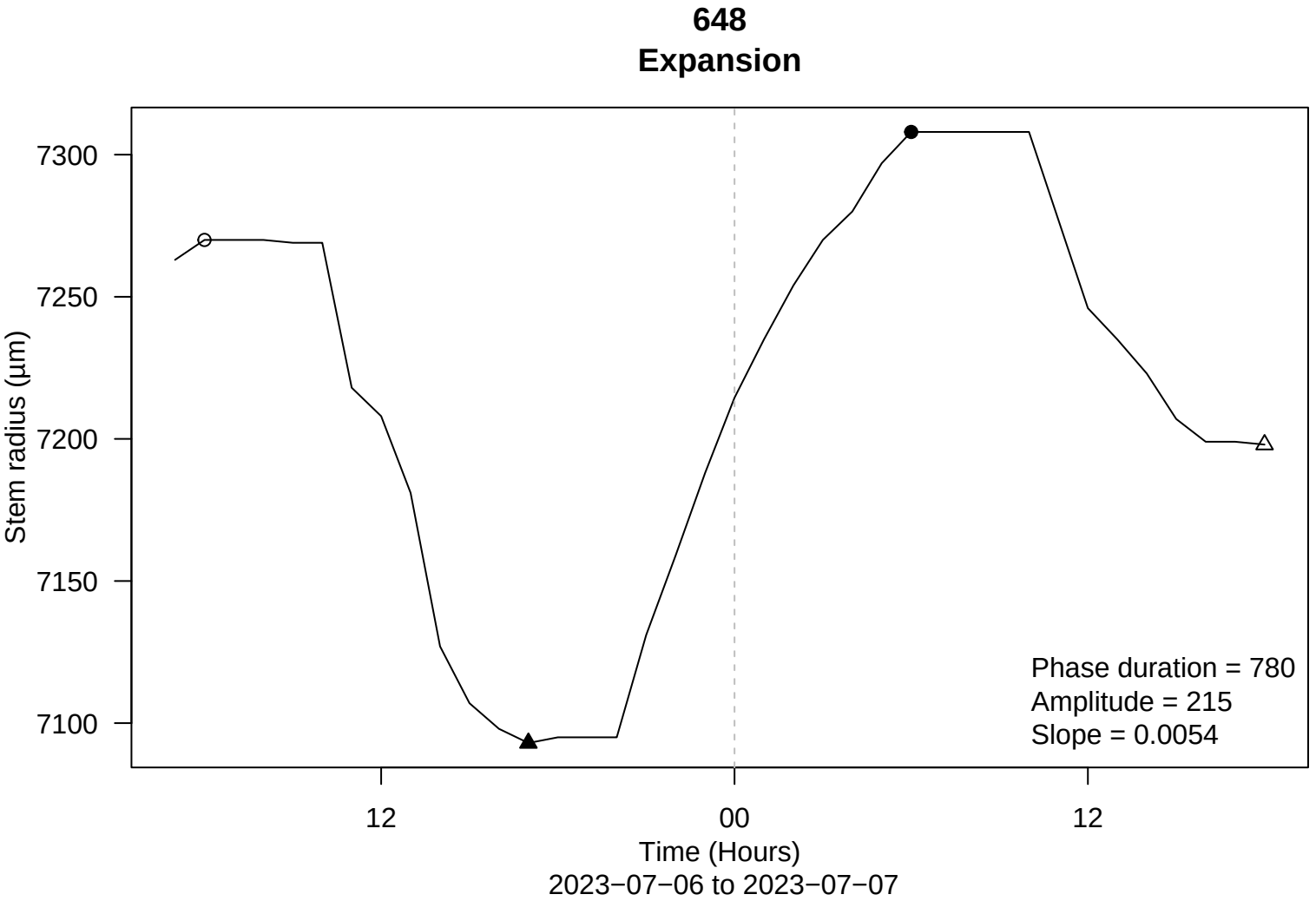

648
Shrinkage
7250
7200
7150
7100
7050
Stem radius (µm)
Phase duration = 660
Amplitude = −228
Slope = −0.007
00
12
00
Time (Hours)
2023−07−04 to 2023−07−04

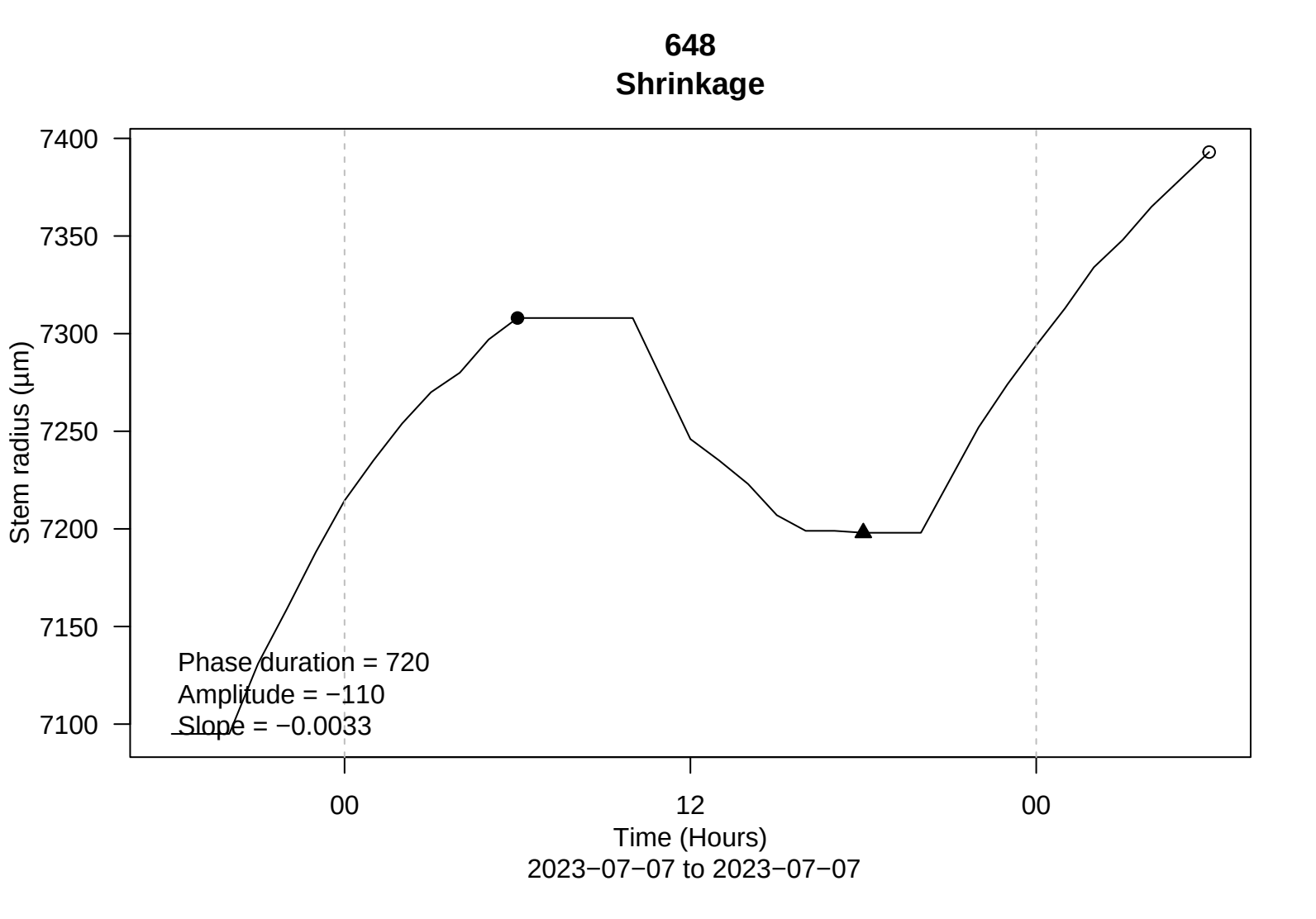

648
Expansion
7250
7200
7150
7100
7050
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−04 to 2023−07−05
Phase duration = 840
Amplitude = 202
Slope = 0.0049

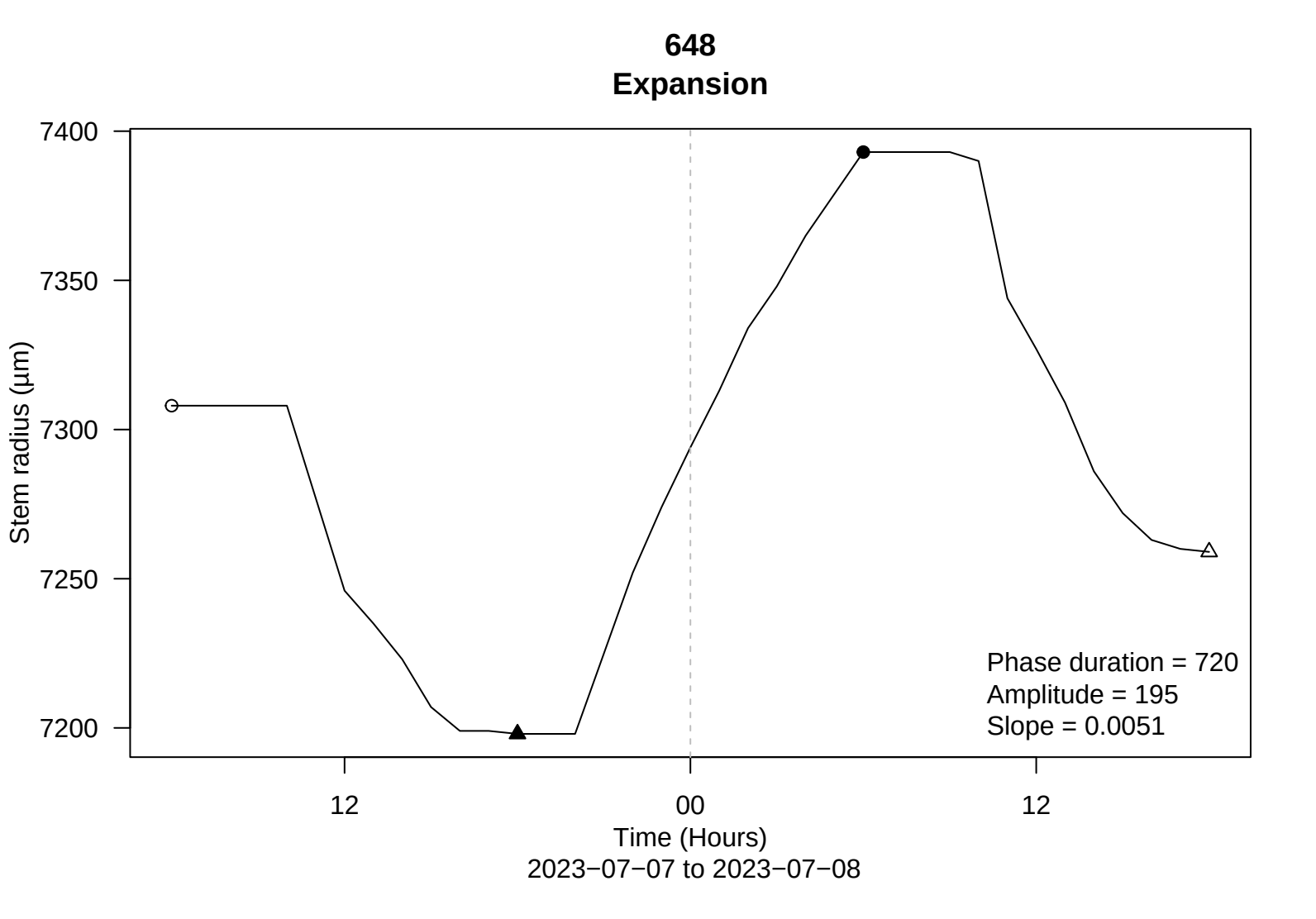

648
Shrinkage
7250
7200
7150
7100
7050
Stem radius (µm)
Phase duration = 600
Amplitude = −195
Slope = −0.0067
00
12
00
Time (Hours)
2023−07−05 to 2023−07−05

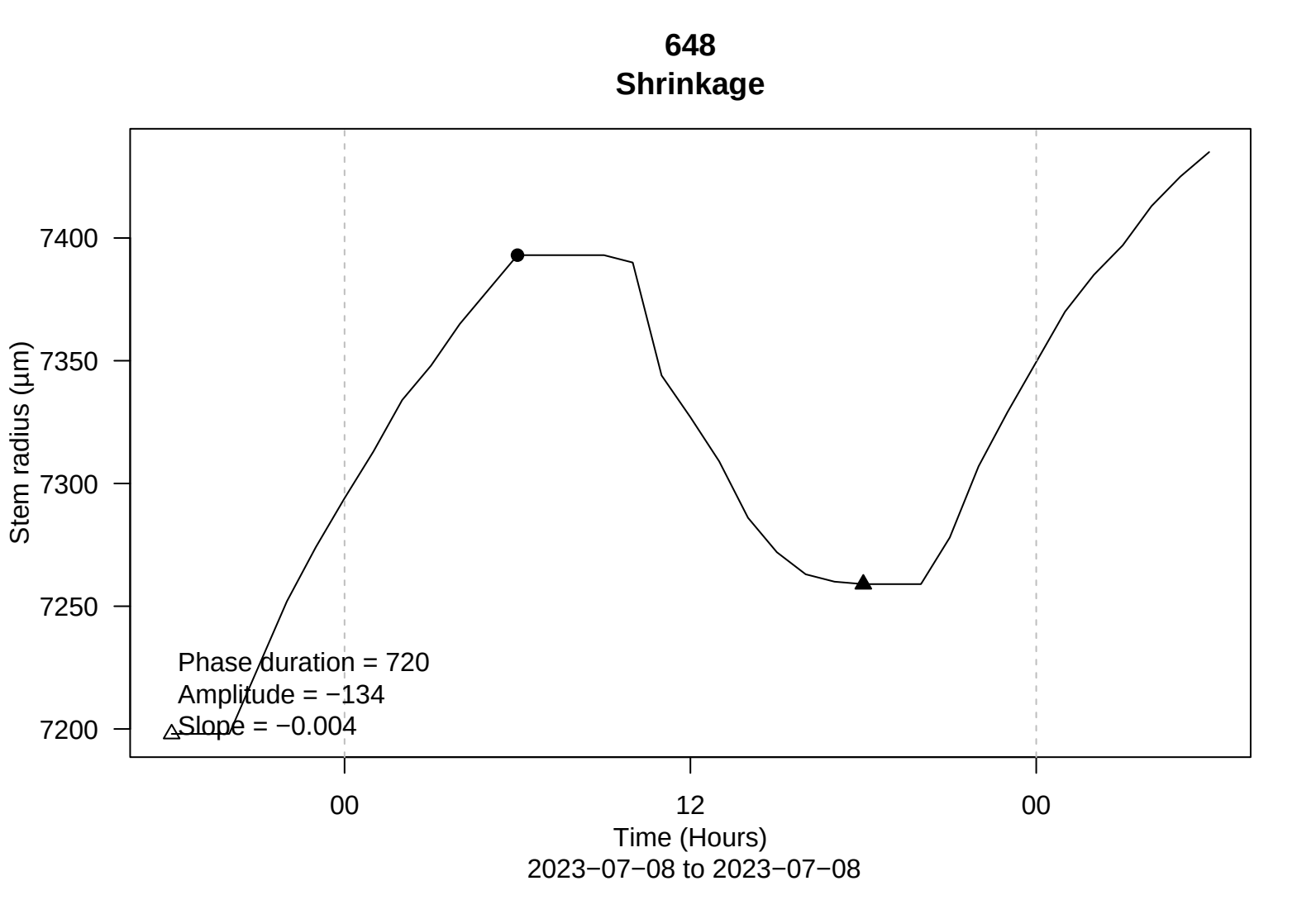

648
Expansion
7250
7200
7150
7100
7050
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−05 to 2023−07−06
Phase duration = 780
Amplitude = 221
Slope = 0.0056

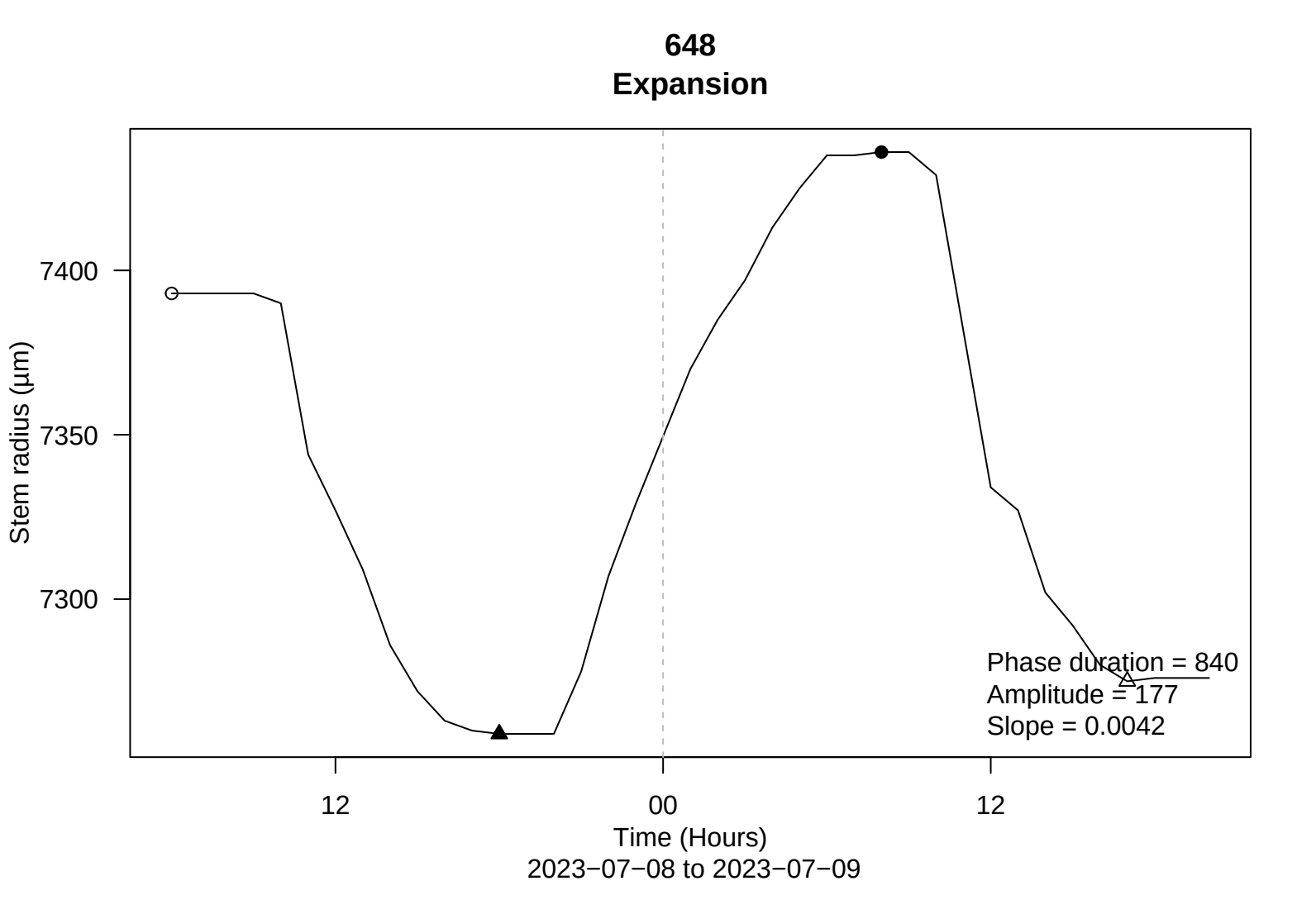

648
Shrinkage
7300
7250
7200
7150
7100
7050
Stem radius (µm)
Phase duration = 660
Amplitude = −177
Slope = −0.0055
00
12
00
Time (Hours)
2023−07−06 to 2023−07−06

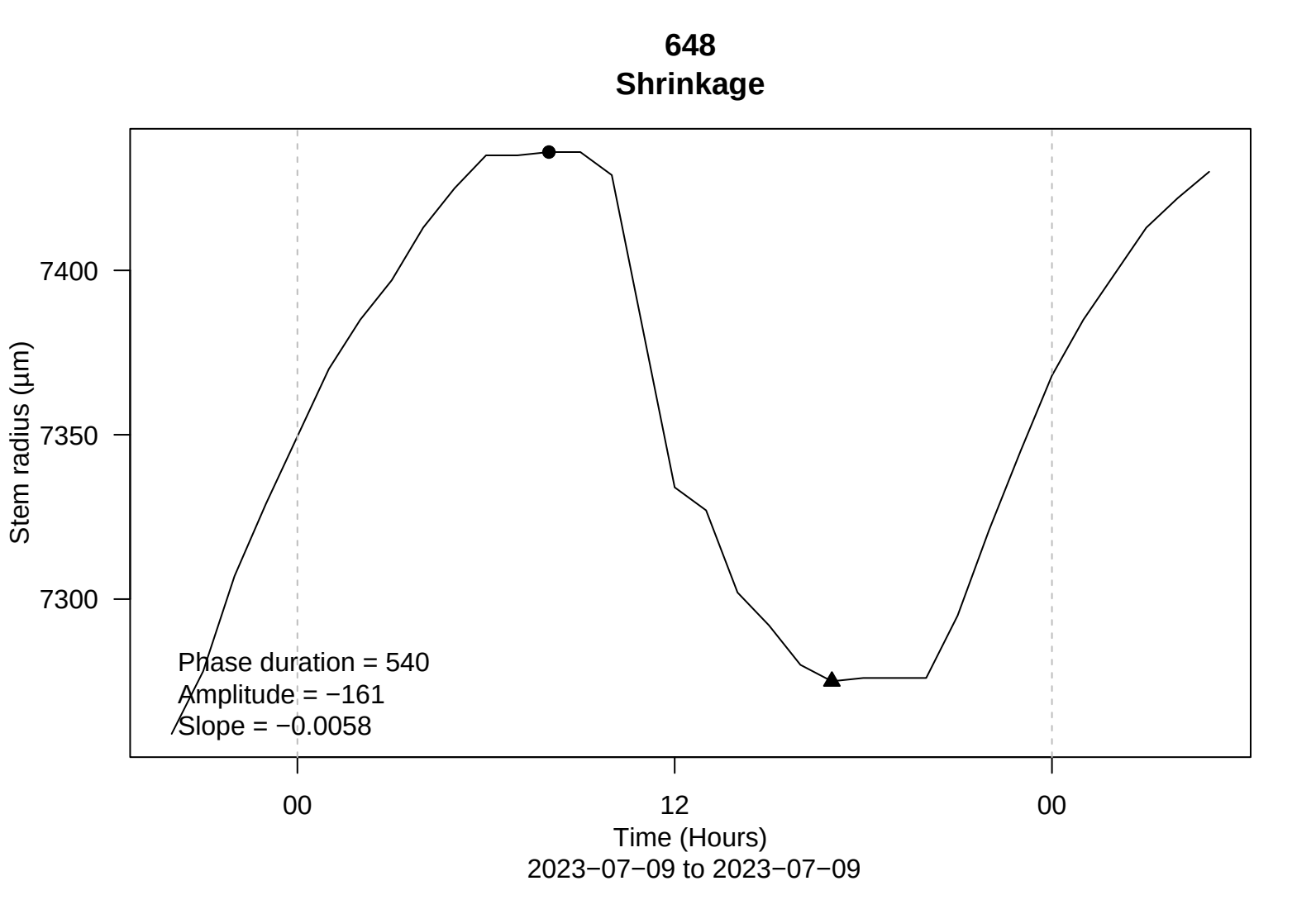

648
Expansion
7300
7250
7200
7150
7100
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−06 to 2023−07−07
Phase duration = 780
Amplitude = 215
Slope = 0.0054

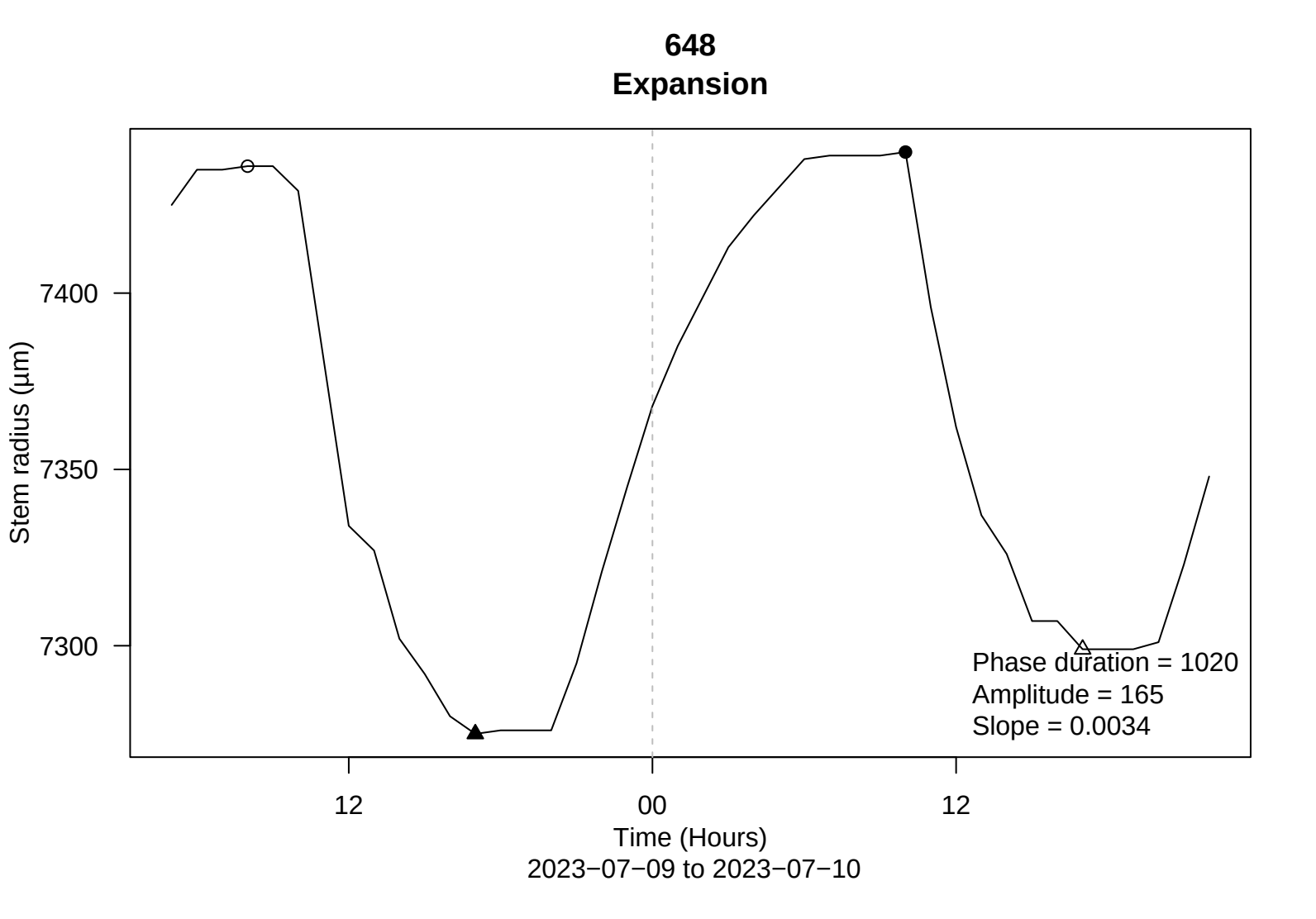

648
Shrinkage
7400
7350
7300
7250
7200
7150
7100
Stem radius (µm)
Phase duration = 720
Amplitude = −110
Slope = −0.0033
00
12
00
Time (Hours)
2023−07−07 to 2023−07−07

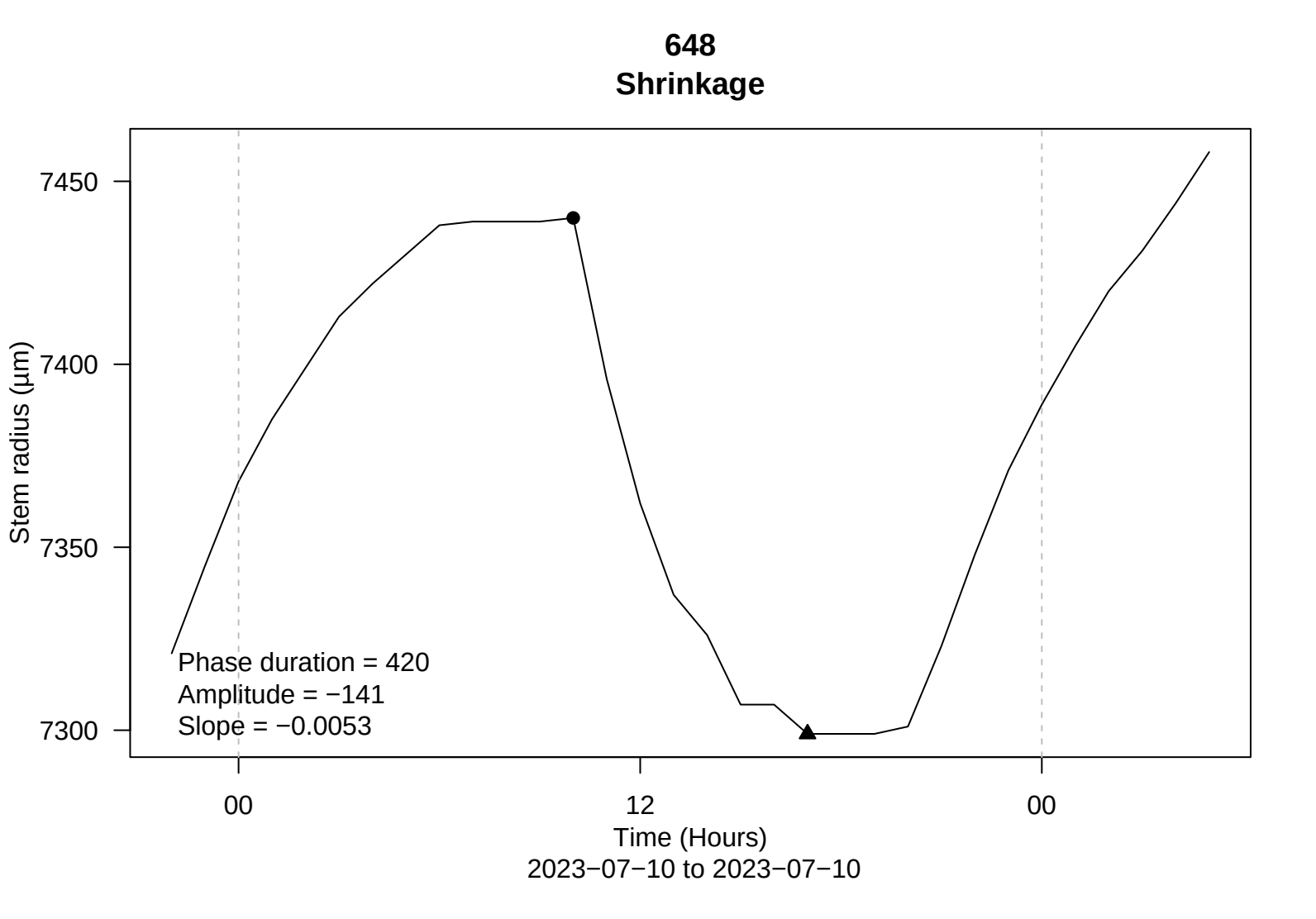

648
Expansion
7400
7350
7300
7250
7200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−07 to 2023−07−08
Phase duration = 720
Amplitude = 195
Slope = 0.0051

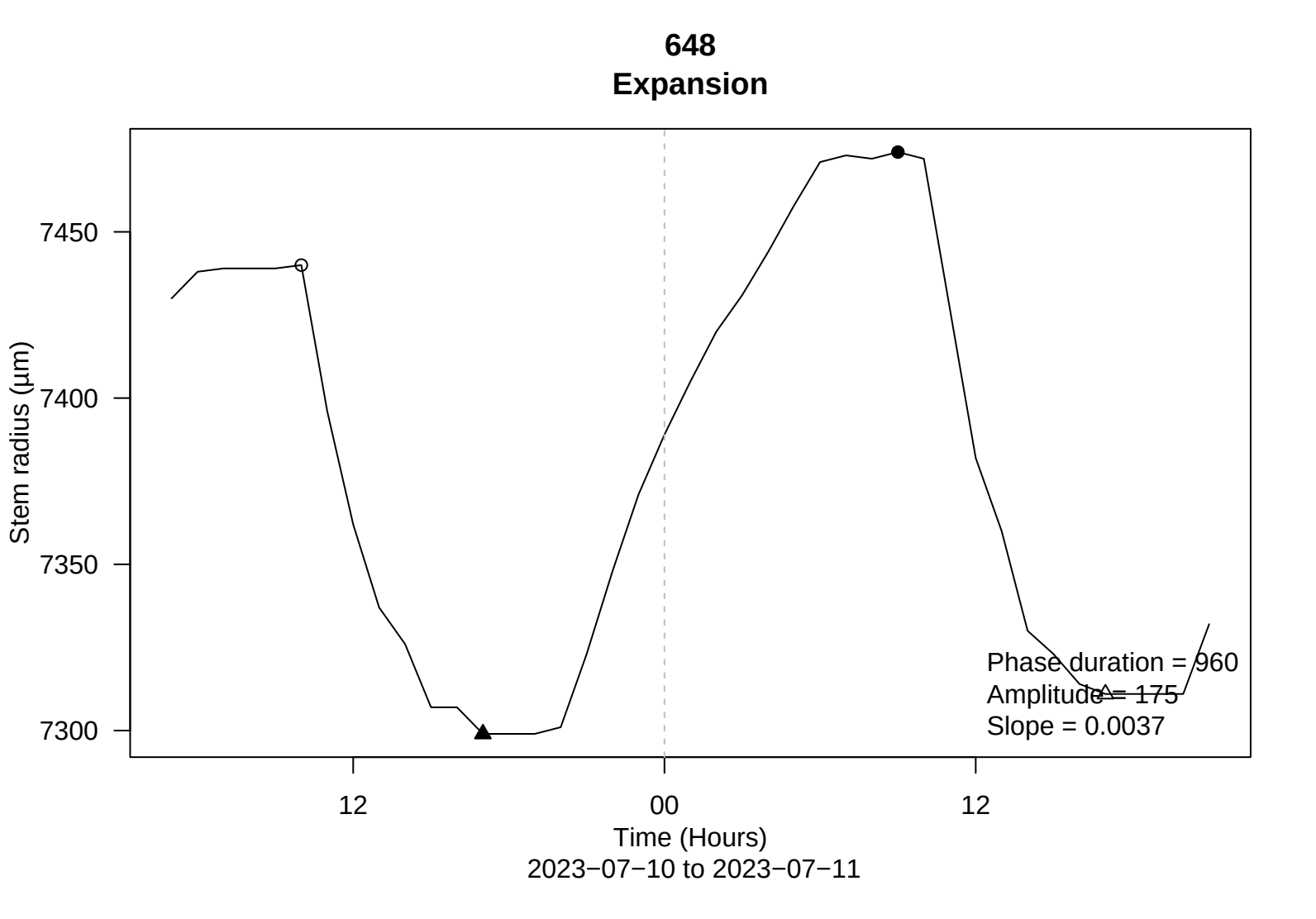

648
Shrinkage
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 720
Amplitude = −134
Slope = −0.004
00
12
00
Time (Hours)
2023−07−08 to 2023−07−08

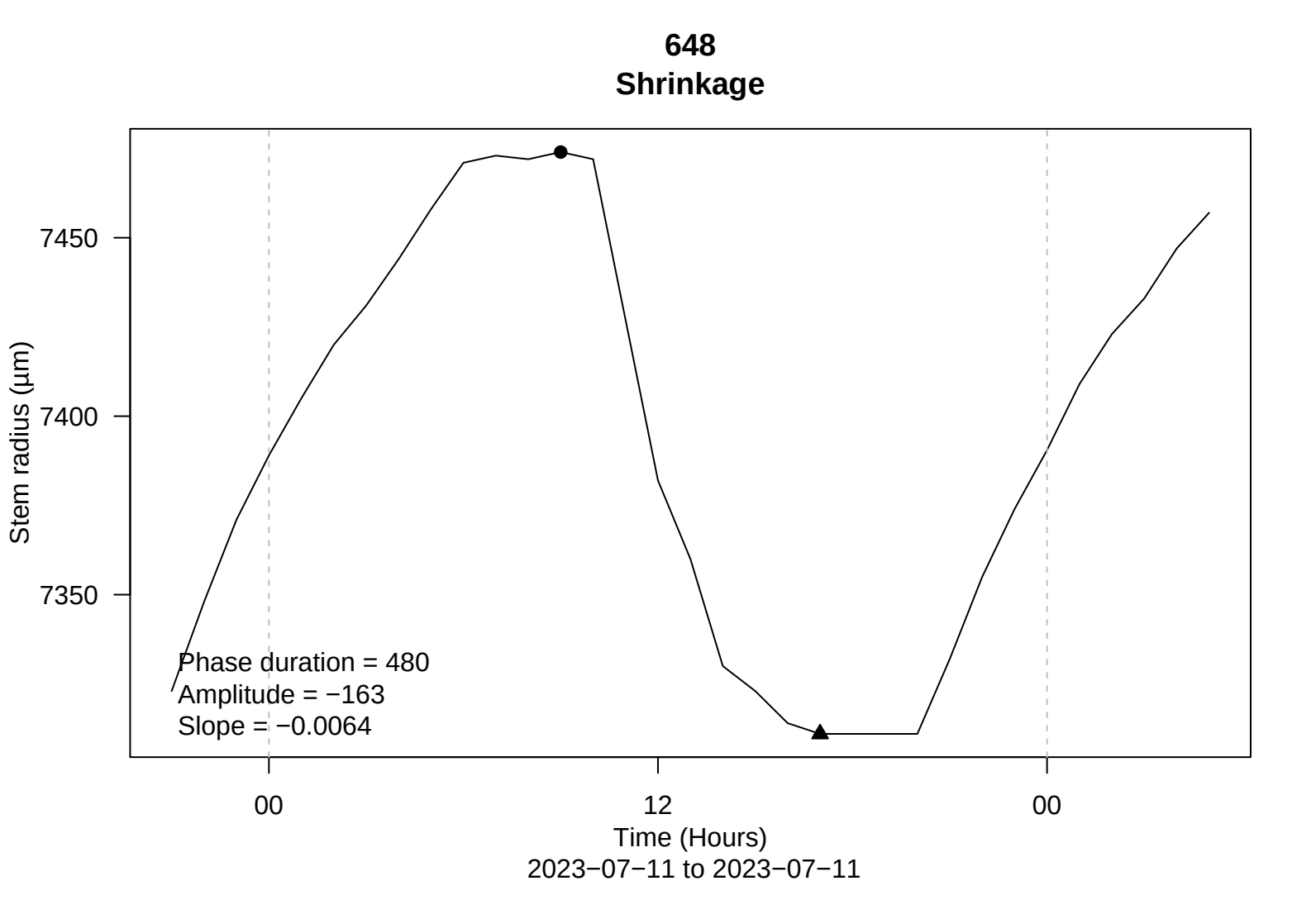

648
Expansion
7400
7350
7300
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−08 to 2023−07−09
Phase duration = 840
Amplitude = 177
Slope = 0.0042

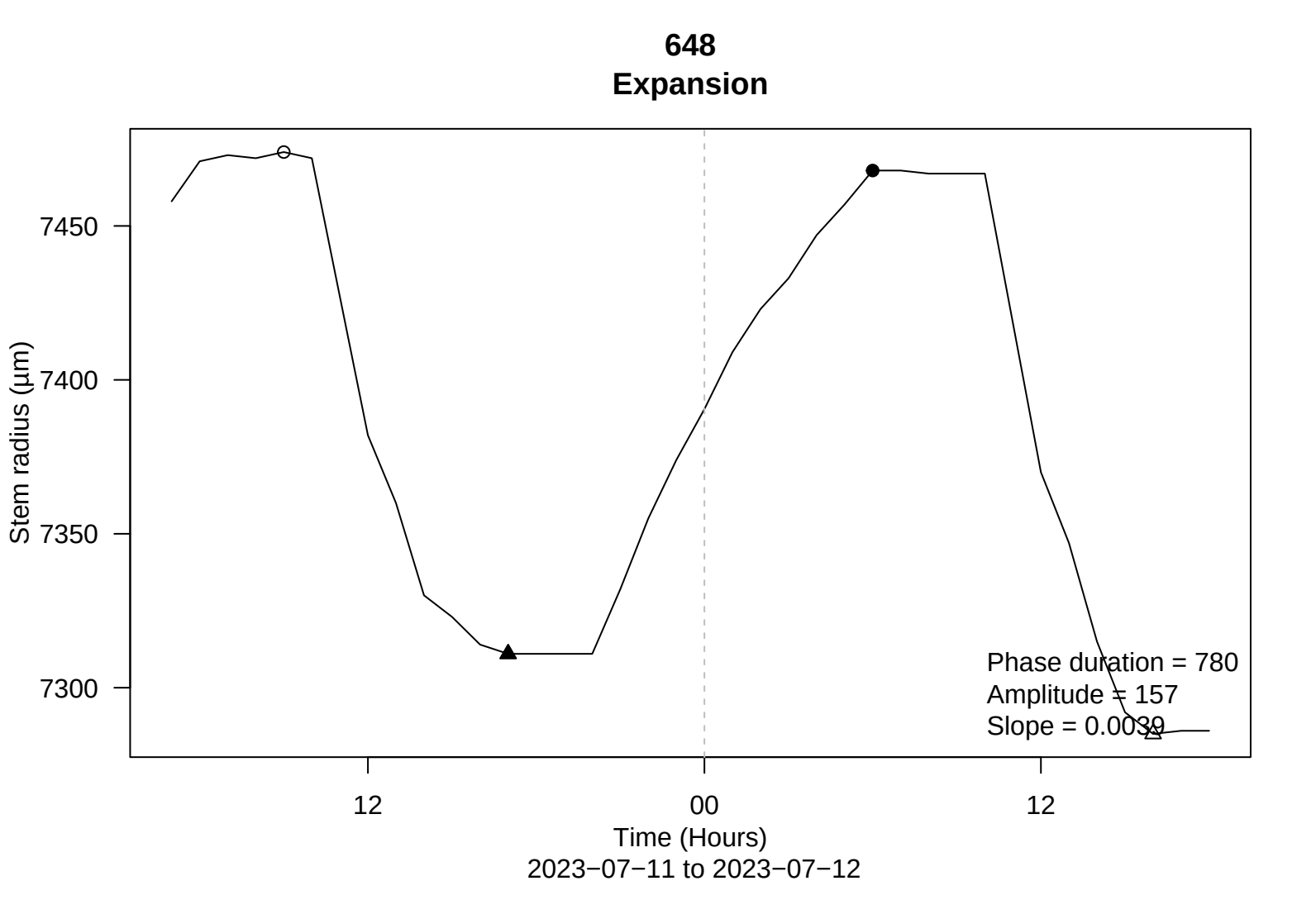

648
Shrinkage
7400
7350
7300
Stem radius (µm)
Phase duration = 540
Amplitude = −161
Slope = −0.0058
00
12
00
Time (Hours)
2023−07−09 to 2023−07−09

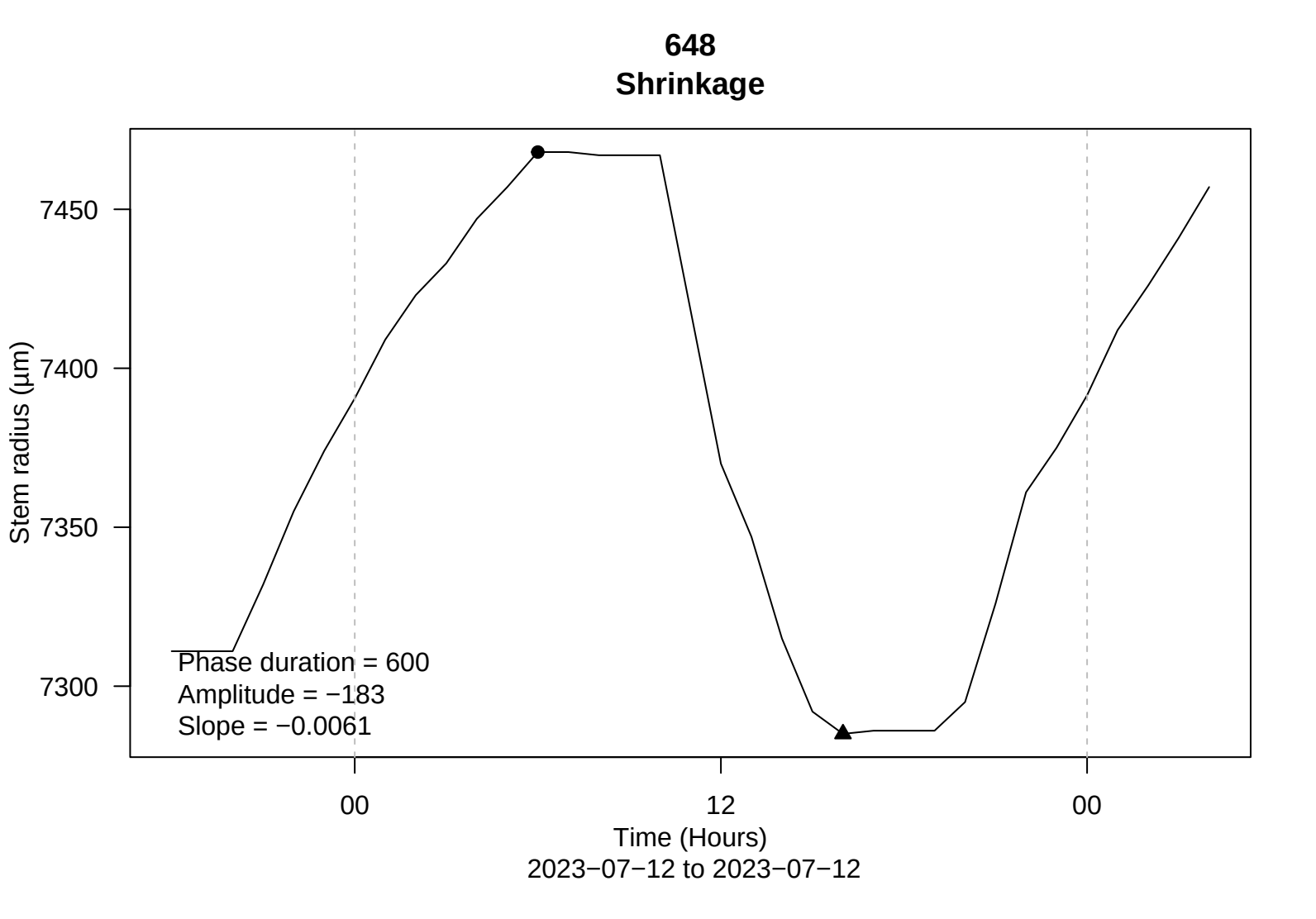

648
Expansion
7400
7350
7300
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−09 to 2023−07−10
Phase duration = 1020
Amplitude = 165
Slope = 0.0034

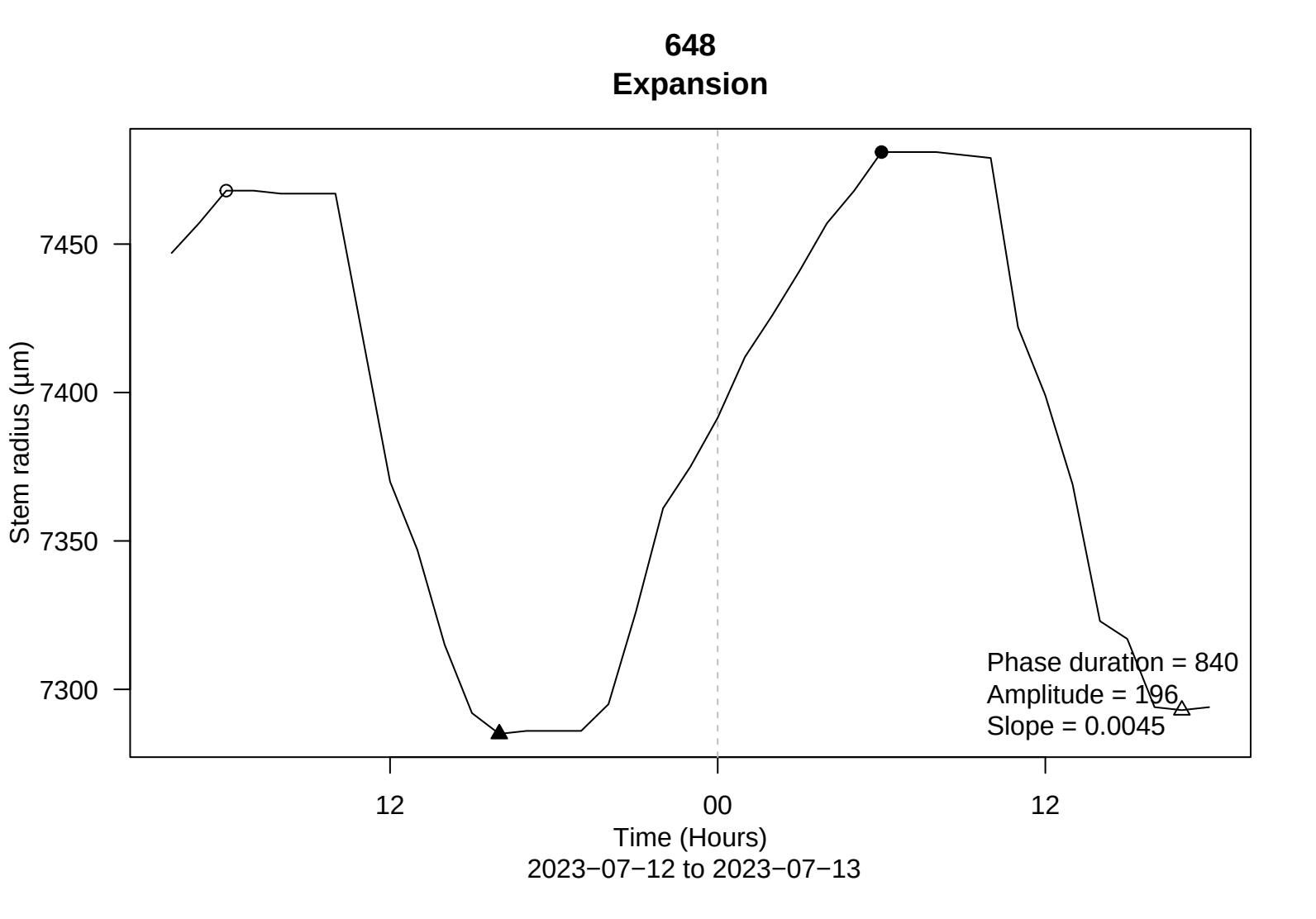

648
Shrinkage
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 420
Amplitude = −141
Slope = −0.0053
00
12
00
Time (Hours)
2023−07−10 to 2023−07−10

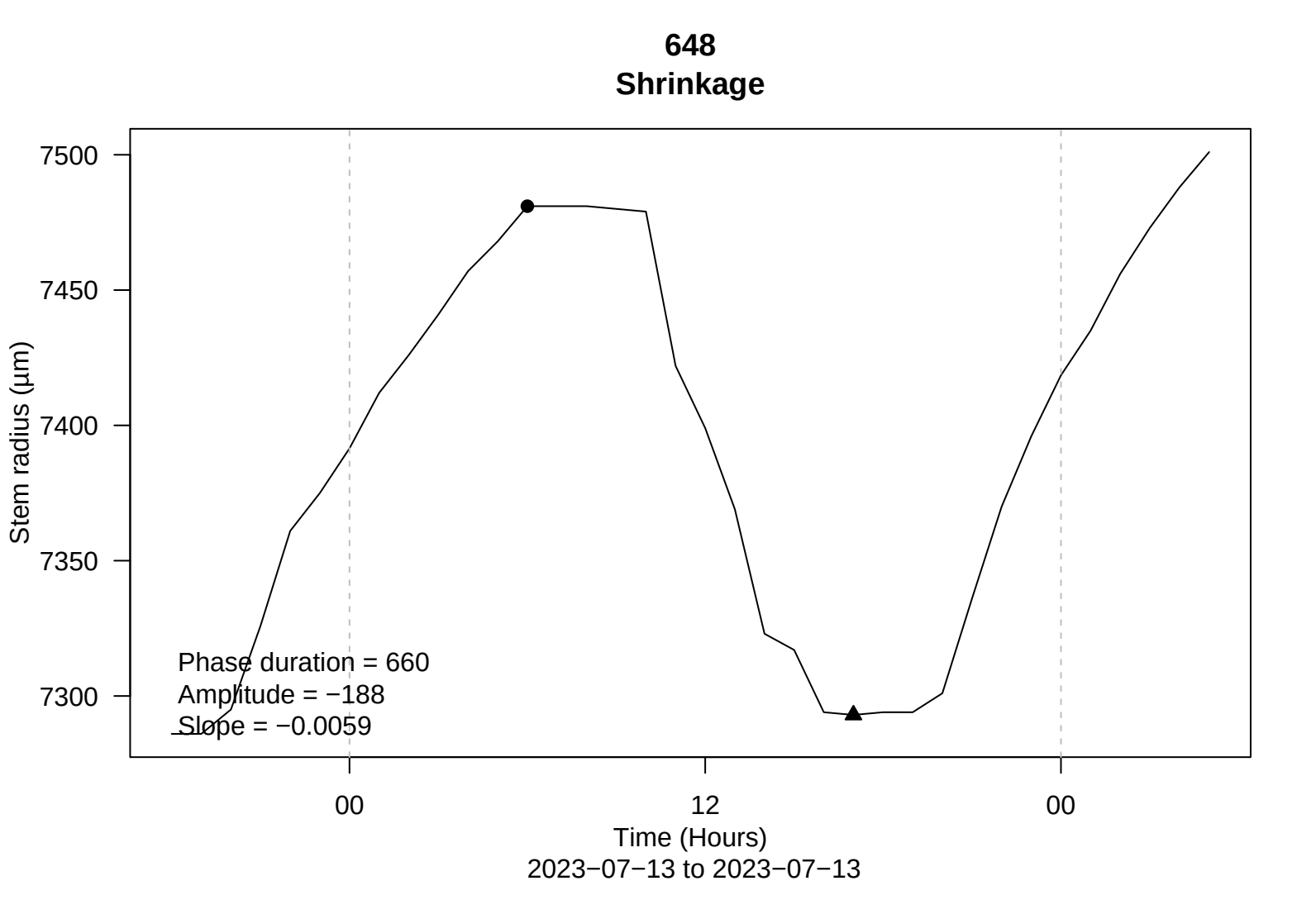

648
Expansion
7450
7400
7350
7300
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−10 to 2023−07−11
Phase duration = 960
Amplitude = 175
Slope = 0.0037

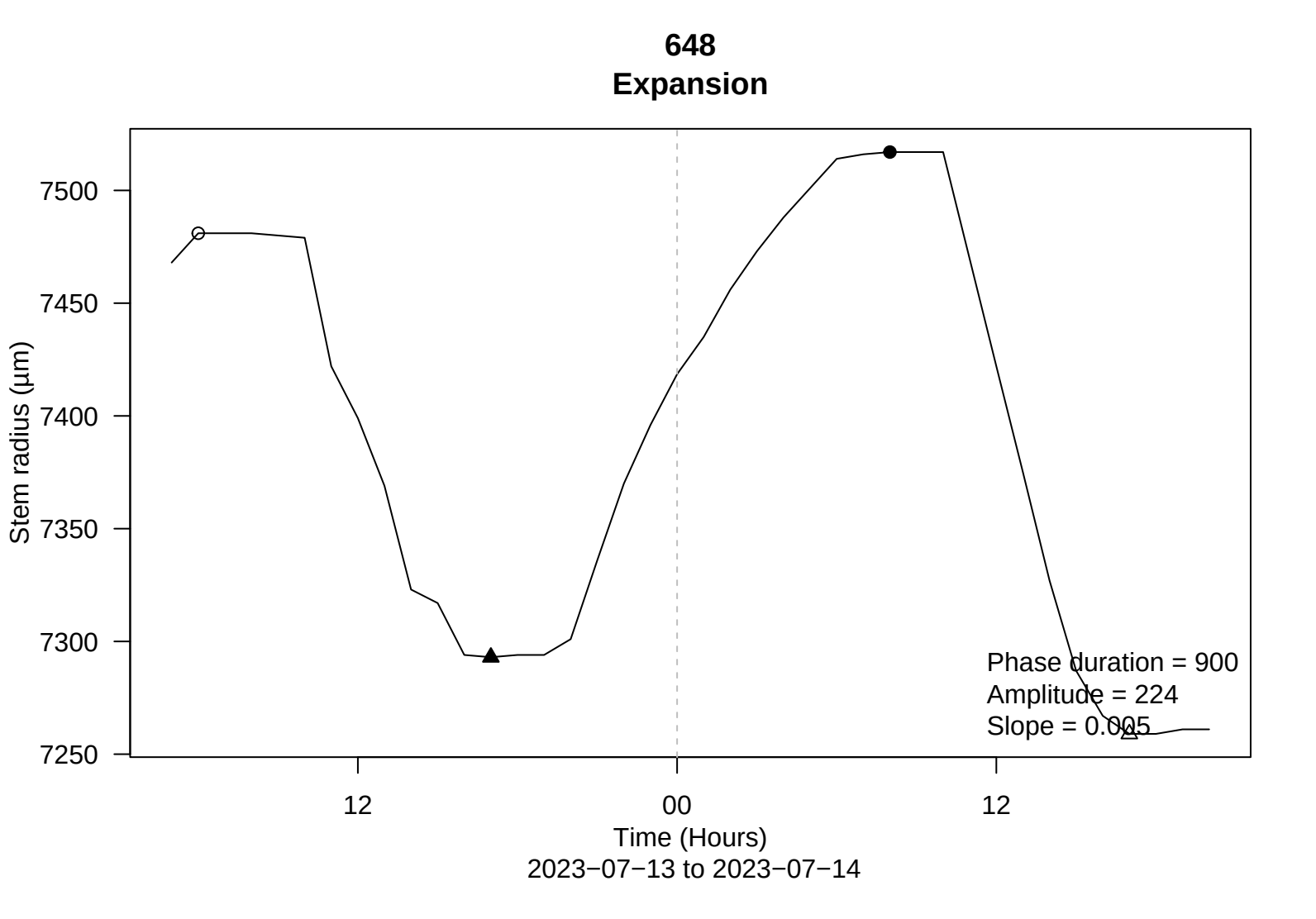

648
Shrinkage
7450
7400
7350
Stem radius (µm)
Phase duration = 480
Amplitude = −163
Slope = −0.0064
00
12
00
Time (Hours)
2023−07−11 to 2023−07−11

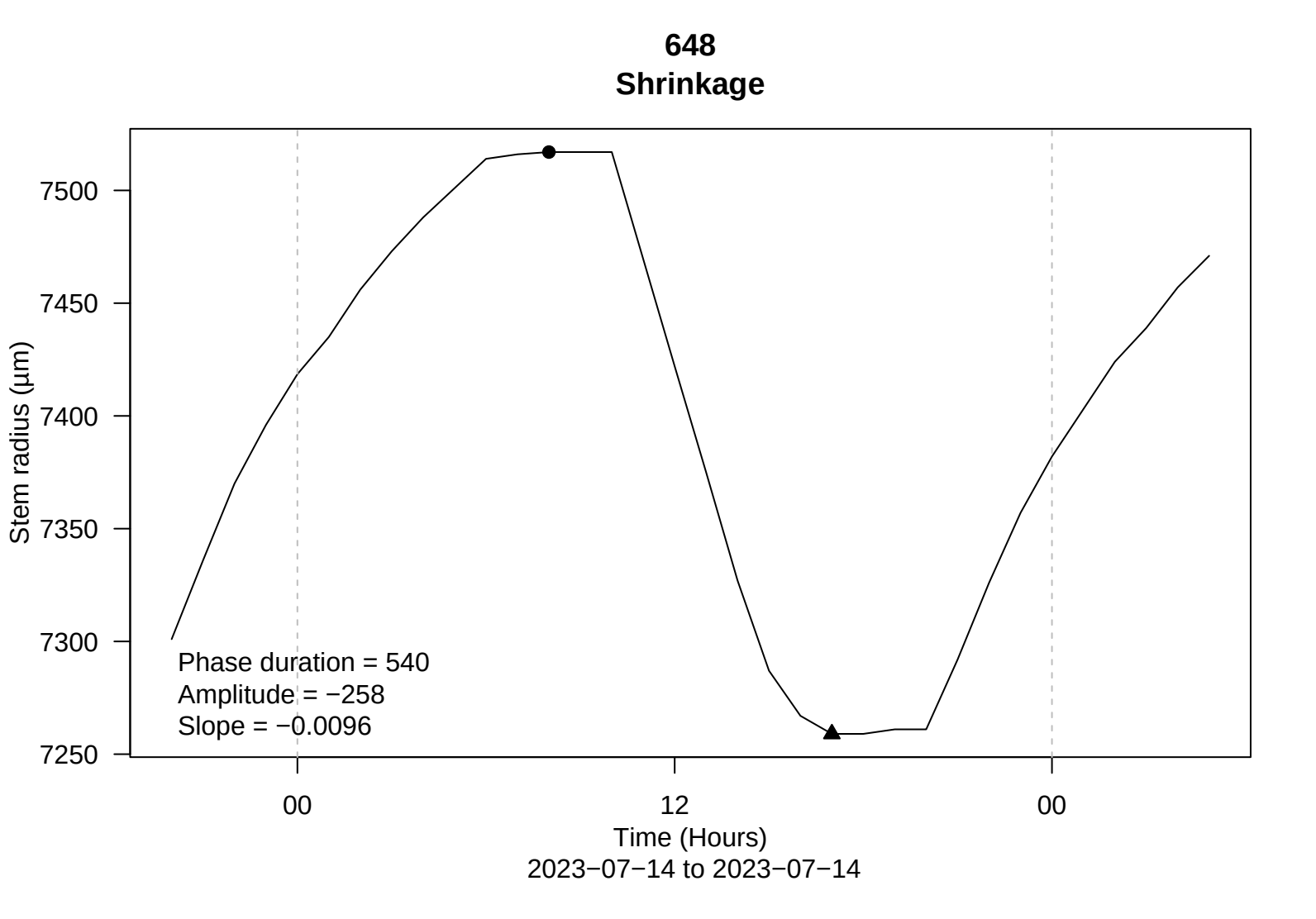

648
Expansion
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 780
Amplitude = 157
Slope = 0.0039
12
00
12
Time (Hours)
2023−07−11 to 2023−07−12

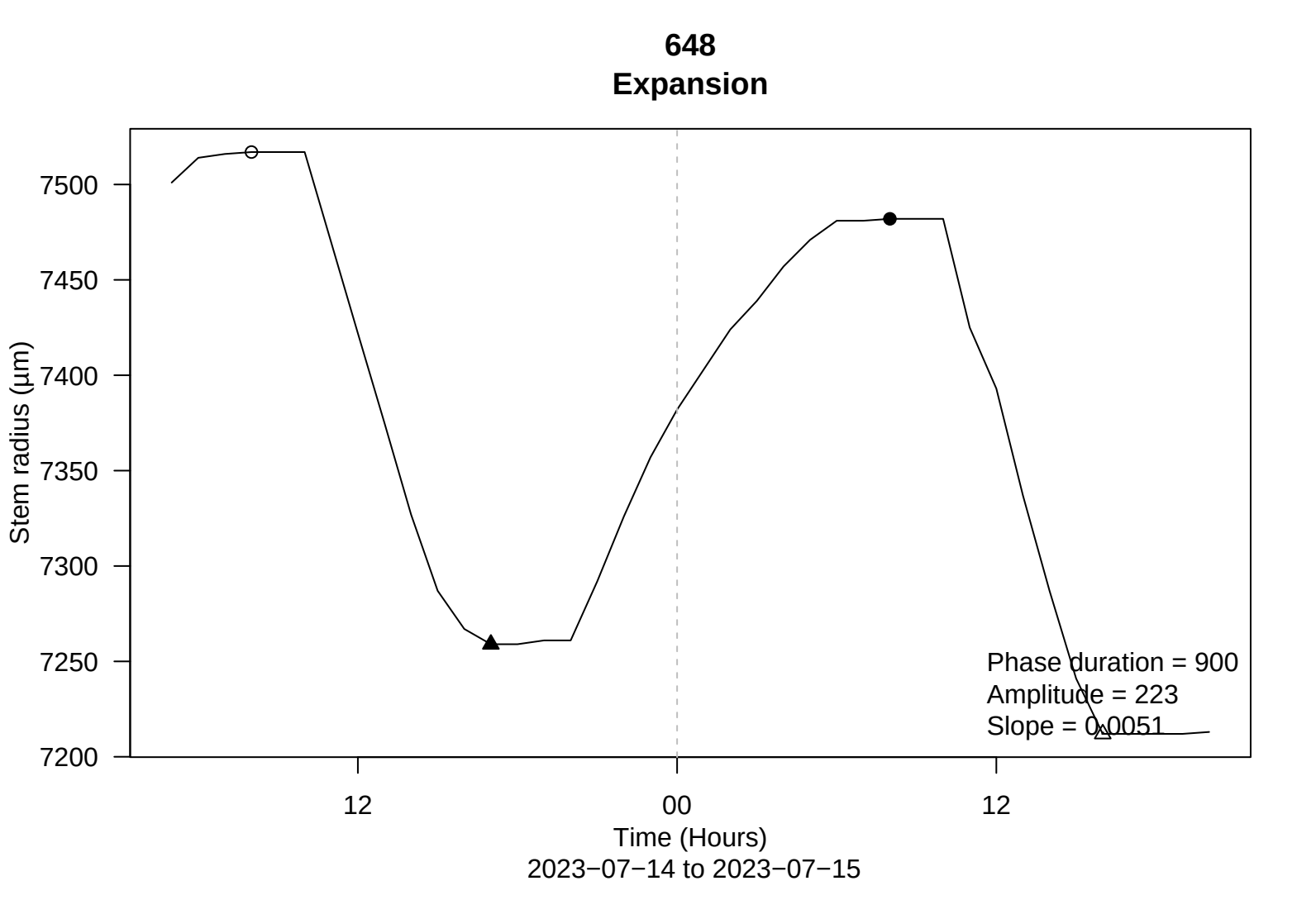

648
Shrinkage
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 600
Amplitude = −183
Slope = −0.0061
00
12
00
Time (Hours)
2023−07−12 to 2023−07−12

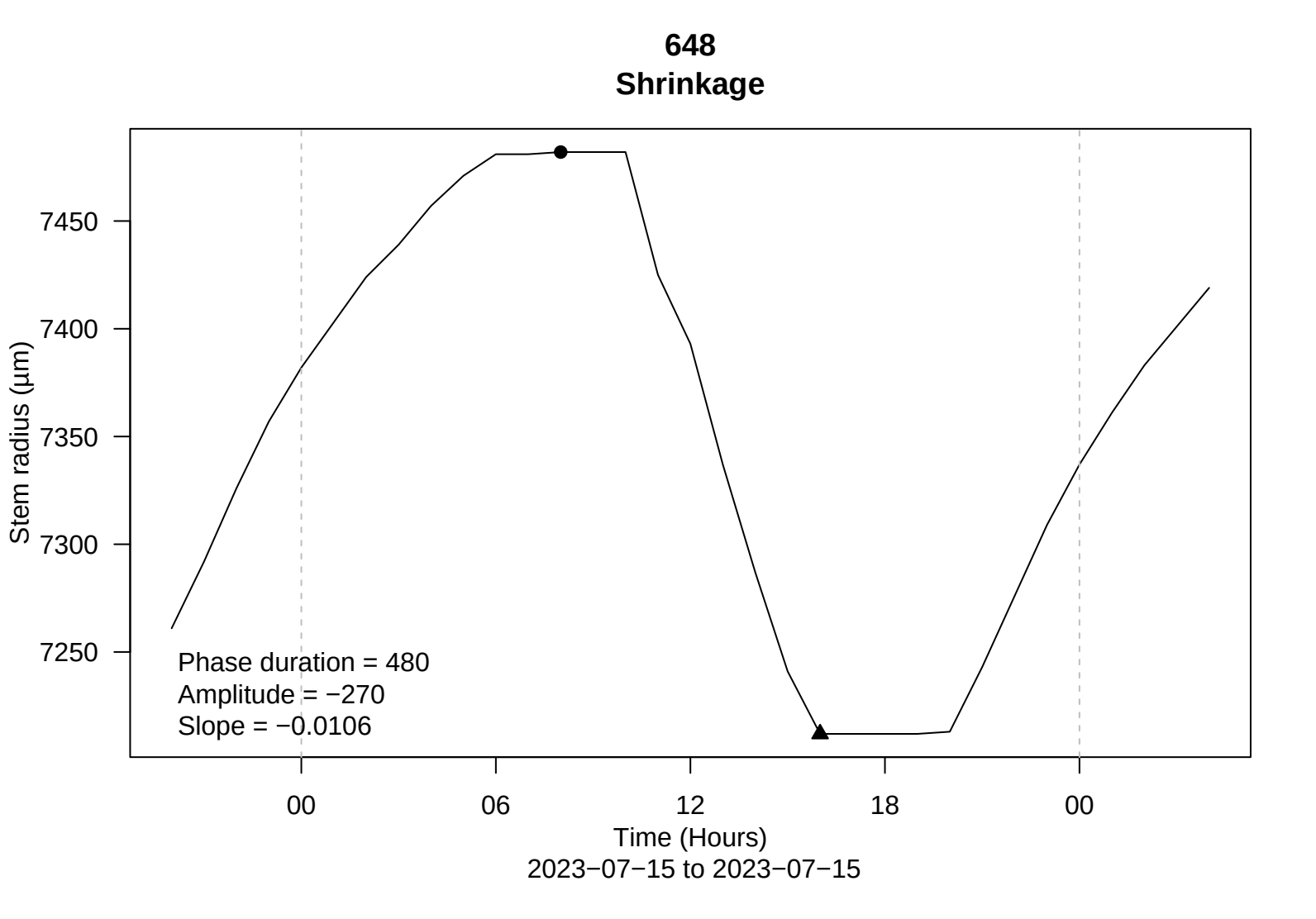

648
Expansion
7450
7400
7350
7300
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−12 to 2023−07−13
Phase duration = 840
Amplitude = 196
Slope = 0.0045

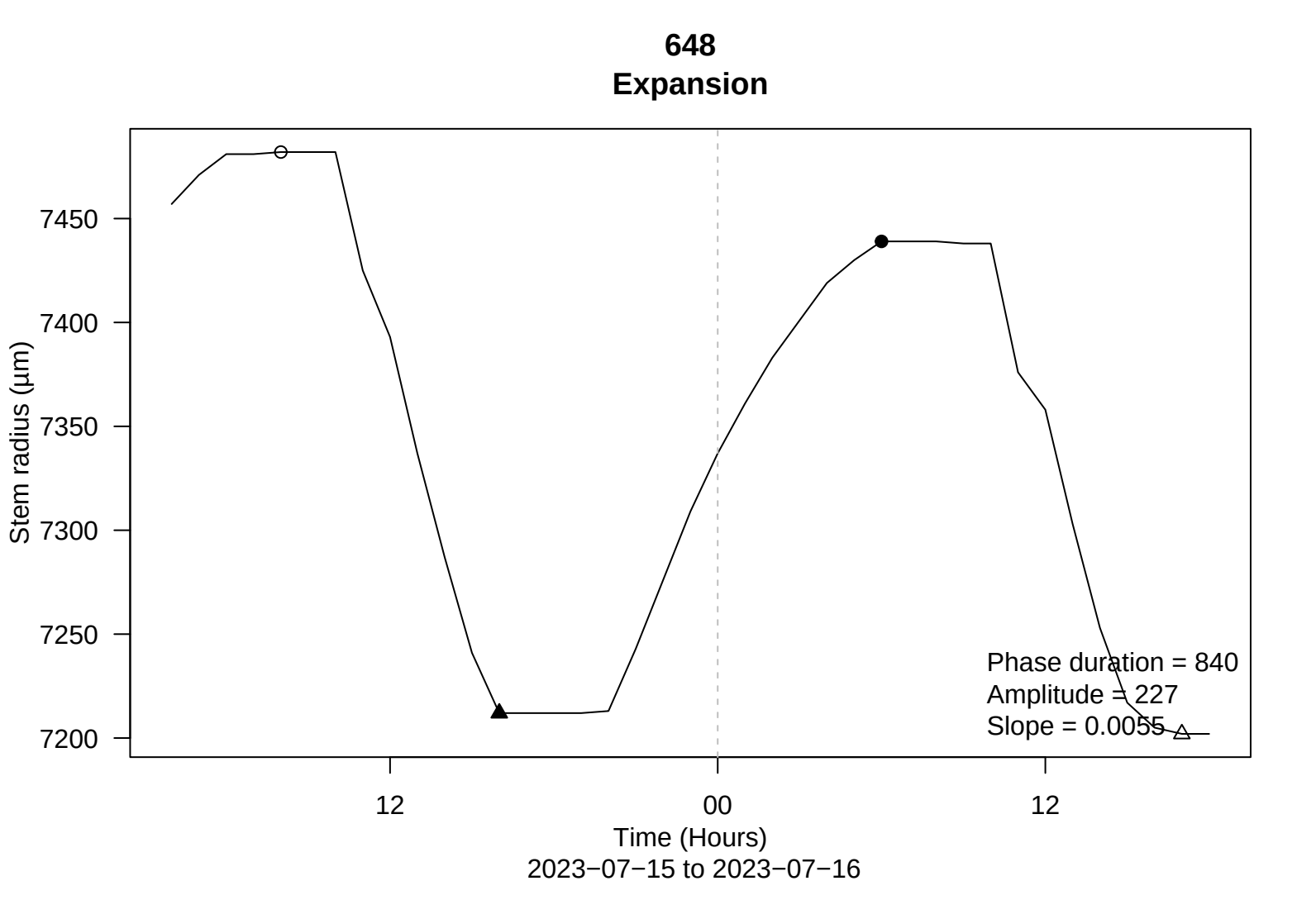

648
Shrinkage
7500
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 660
Amplitude = −188
Slope = −0.0059
00
12
00
Time (Hours)
2023−07−13 to 2023−07−13

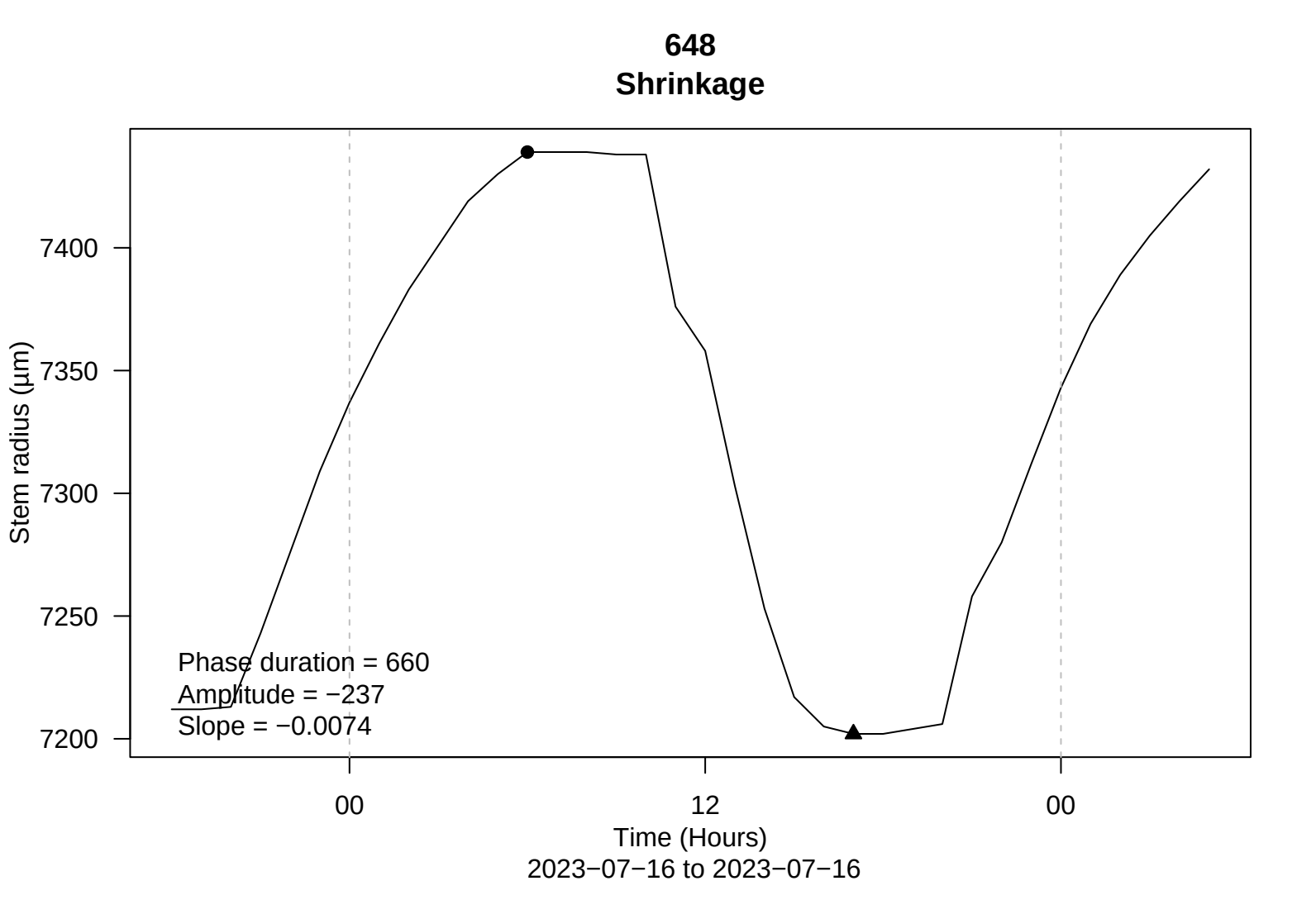

648
Expansion
7500
7450
7400
7350
7300
7250
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−13 to 2023−07−14
Phase duration = 900
Amplitude = 224
Slope = 0.005

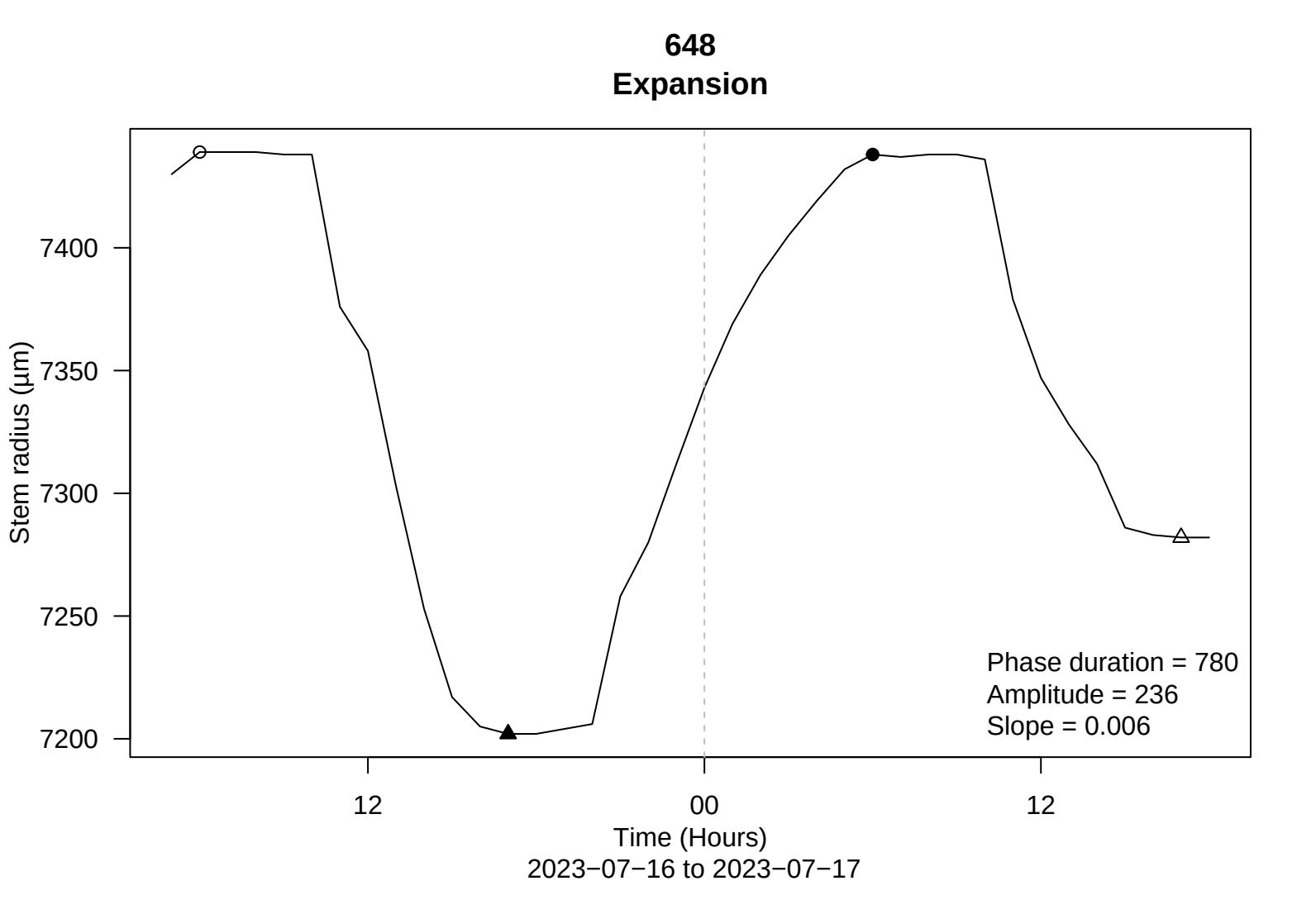

648
Shrinkage
7500
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 540
Amplitude = −258
Slope = −0.0096
00
12
00
Time (Hours)
2023−07−14 to 2023−07−14

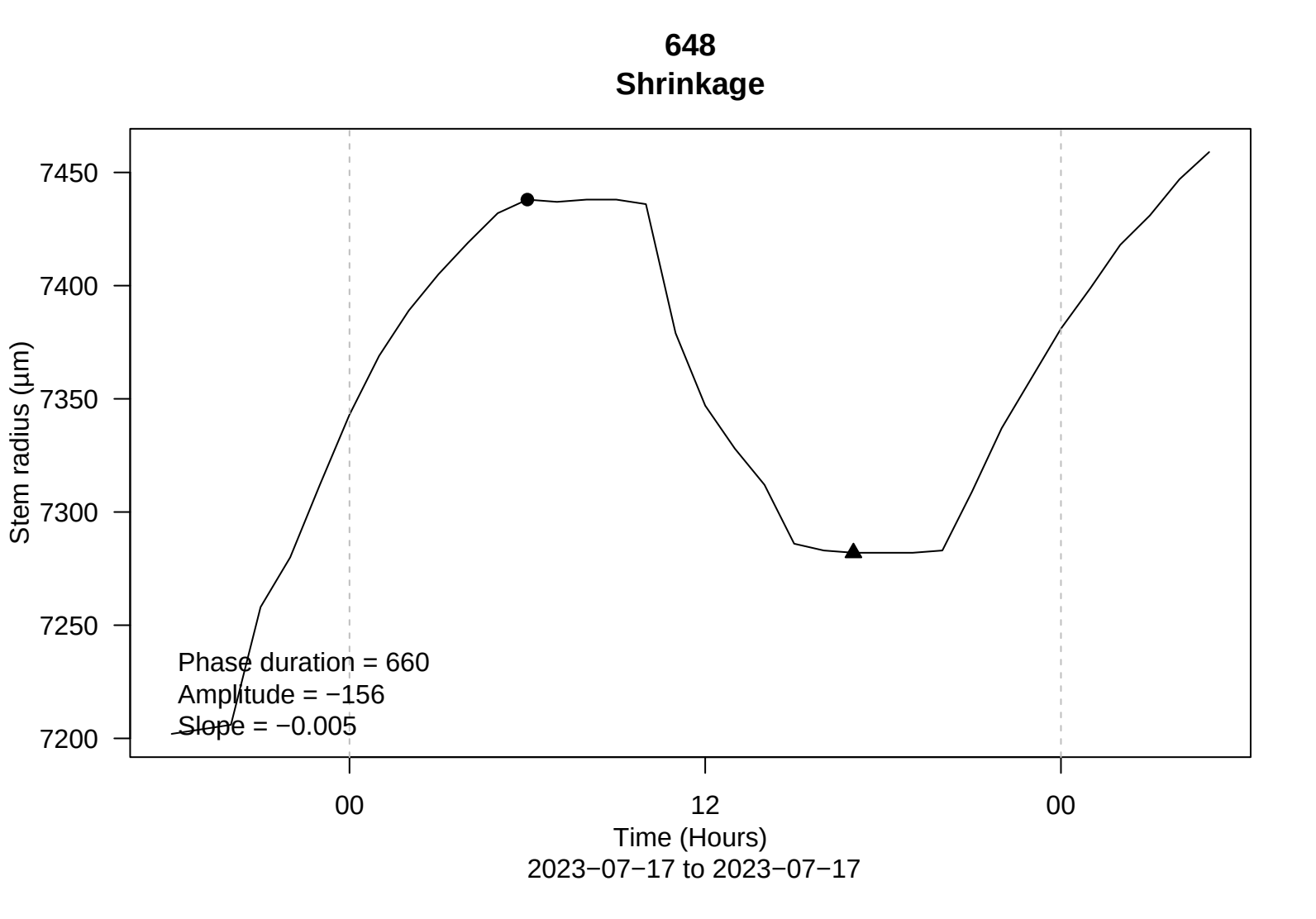

648
Expansion
7500
7450
7400
7350
7300
7250
7200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−14 to 2023−07−15
Phase duration = 900
Amplitude = 223
Slope = 0.0051

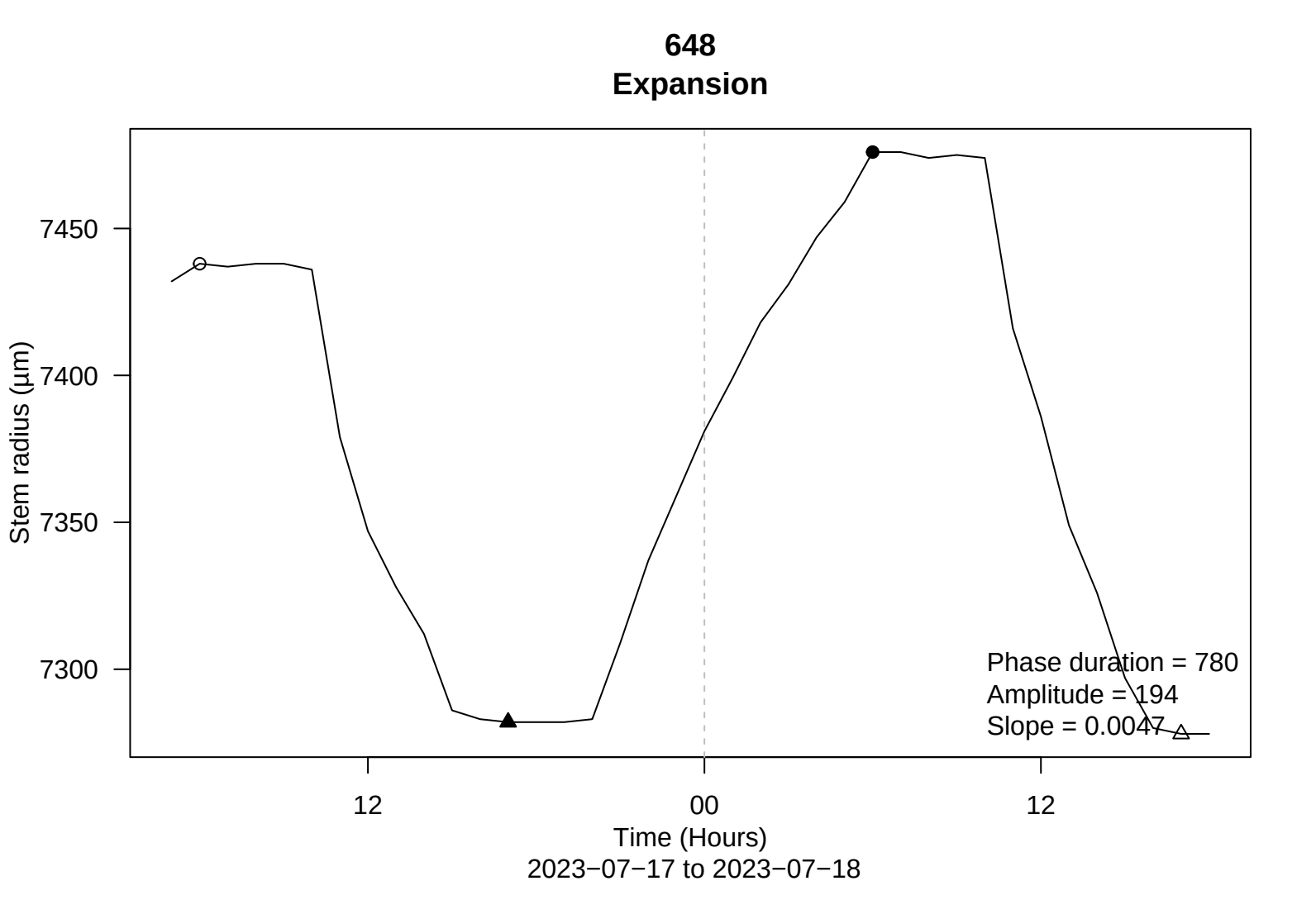

648
Shrinkage
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 480
Amplitude = −270
Slope = −0.0106
00
06
12
18
00
Time (Hours)
2023−07−15 to 2023−07−15

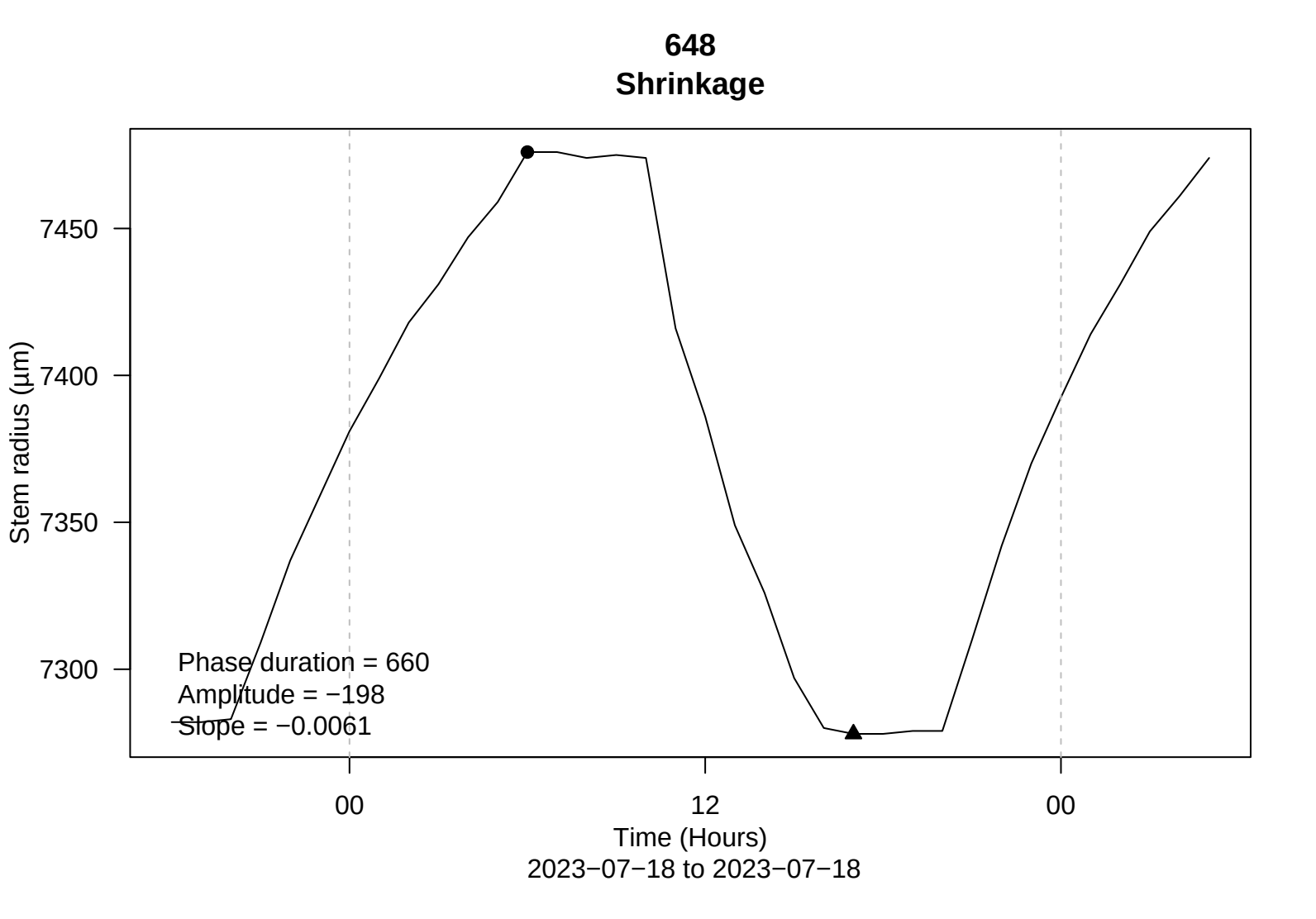

648
Expansion
7450
7400
7350
7300
7250
7200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−15 to 2023−07−16
Phase duration = 840
Amplitude = 227
Slope = 0.0055

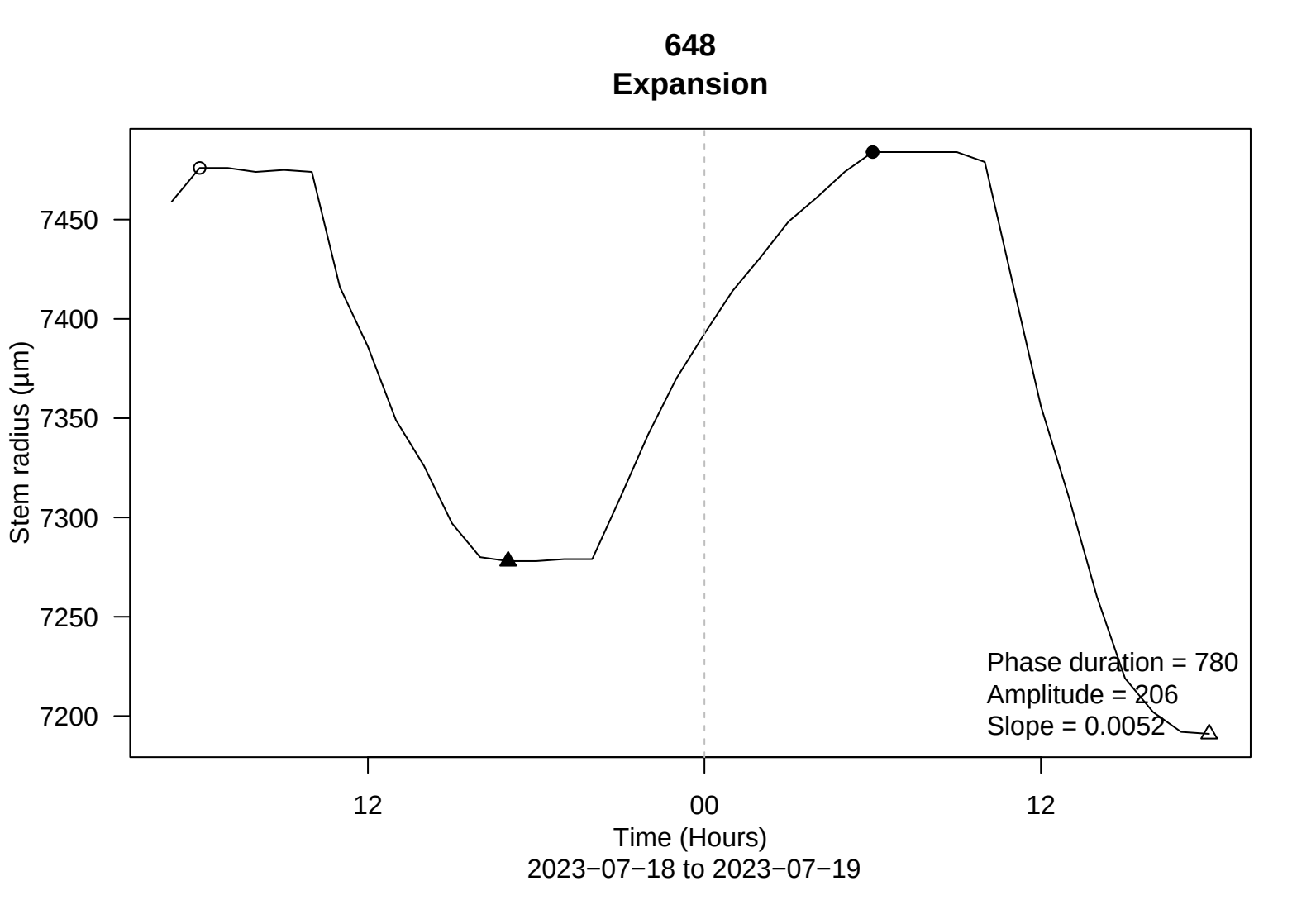

648
Shrinkage
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 660
Amplitude = −237
Slope = −0.0074
00
12
00
Time (Hours)
2023−07−16 to 2023−07−16

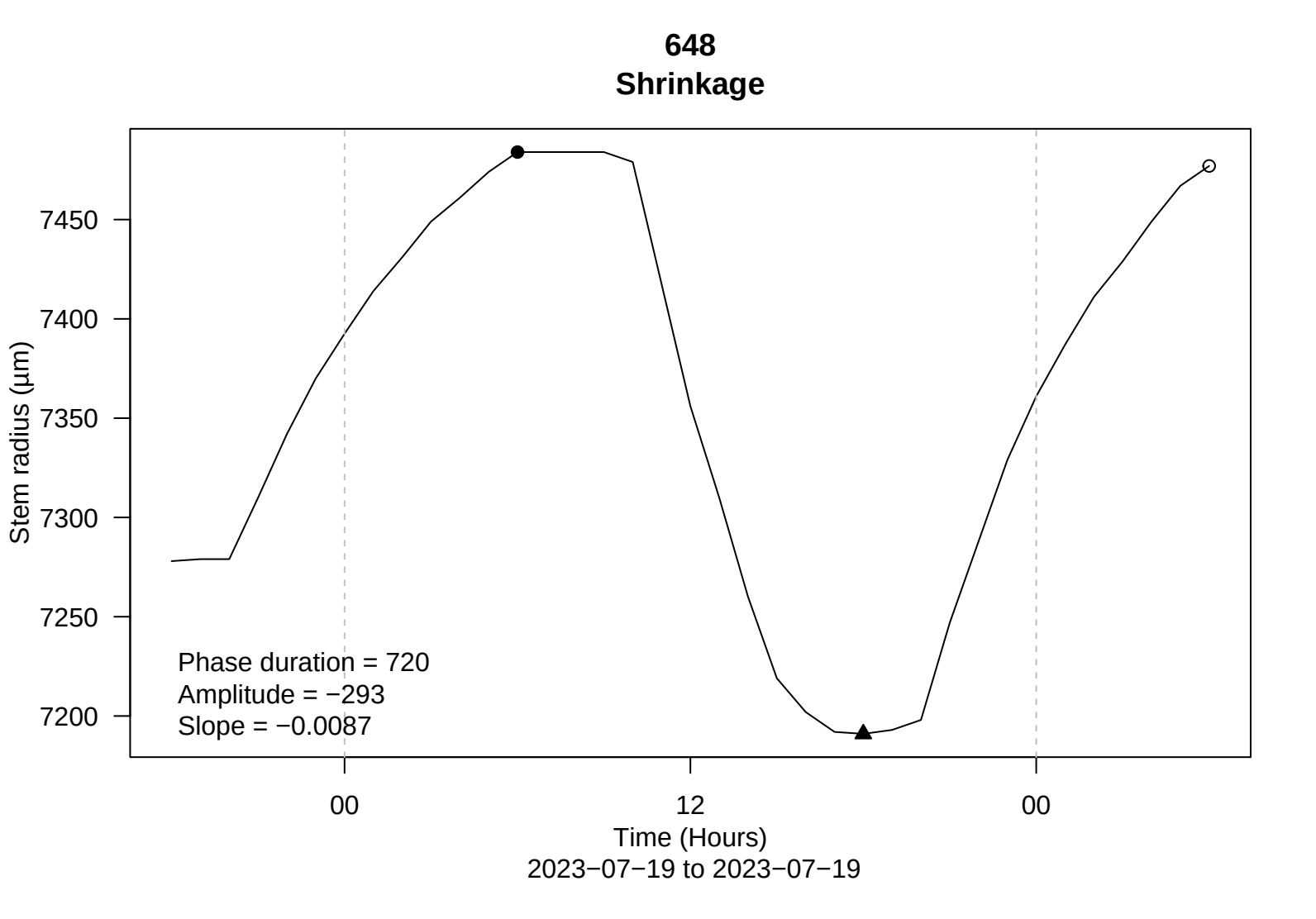

648
Expansion
7400
7350
7300
7250
7200
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−16 to 2023−07−17
Phase duration = 780
Amplitude = 236
Slope = 0.006

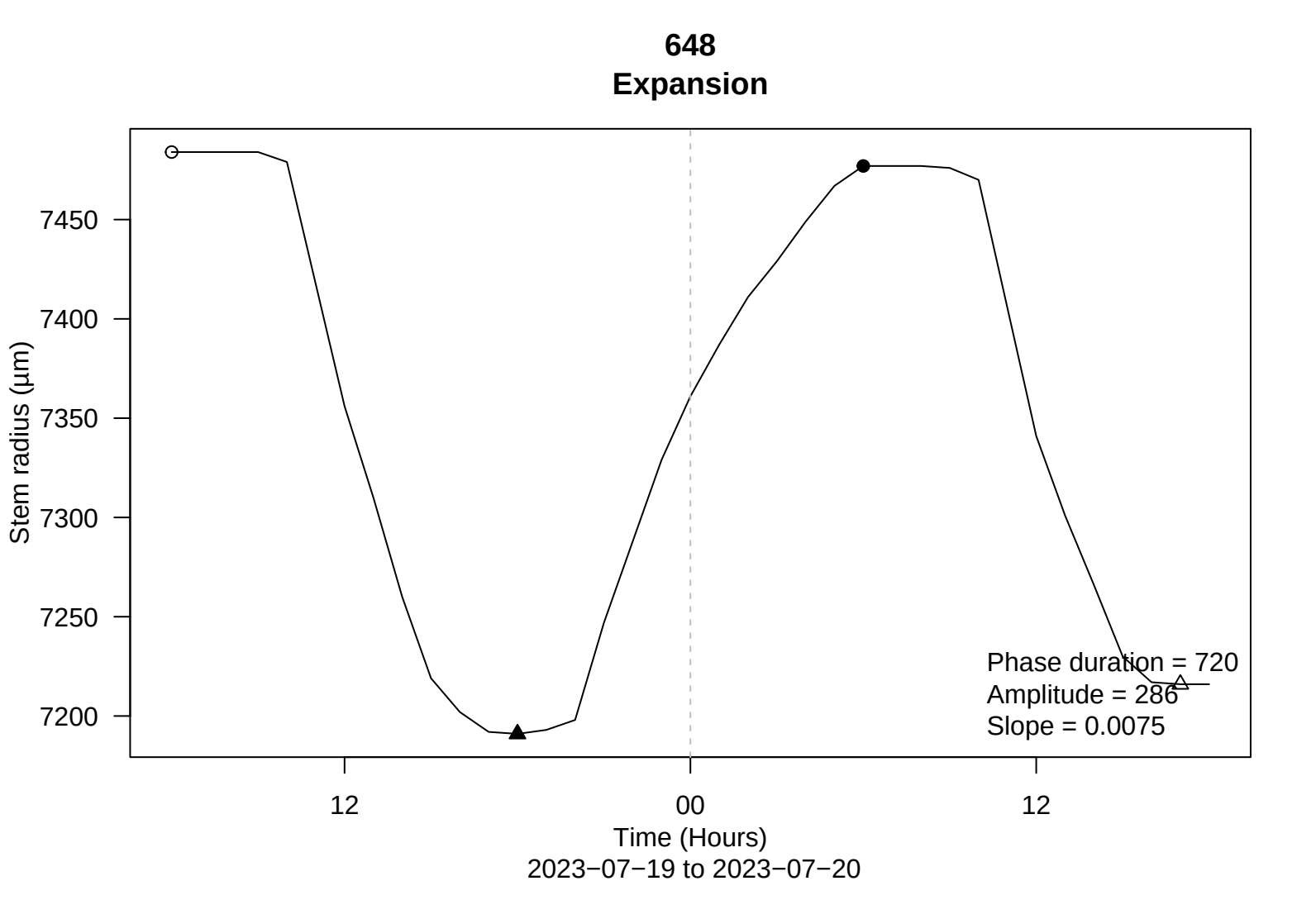

648
Shrinkage
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 660
Amplitude = −156
Slope = −0.005
00
12
00
Time (Hours)
2023−07−17 to 2023−07−17

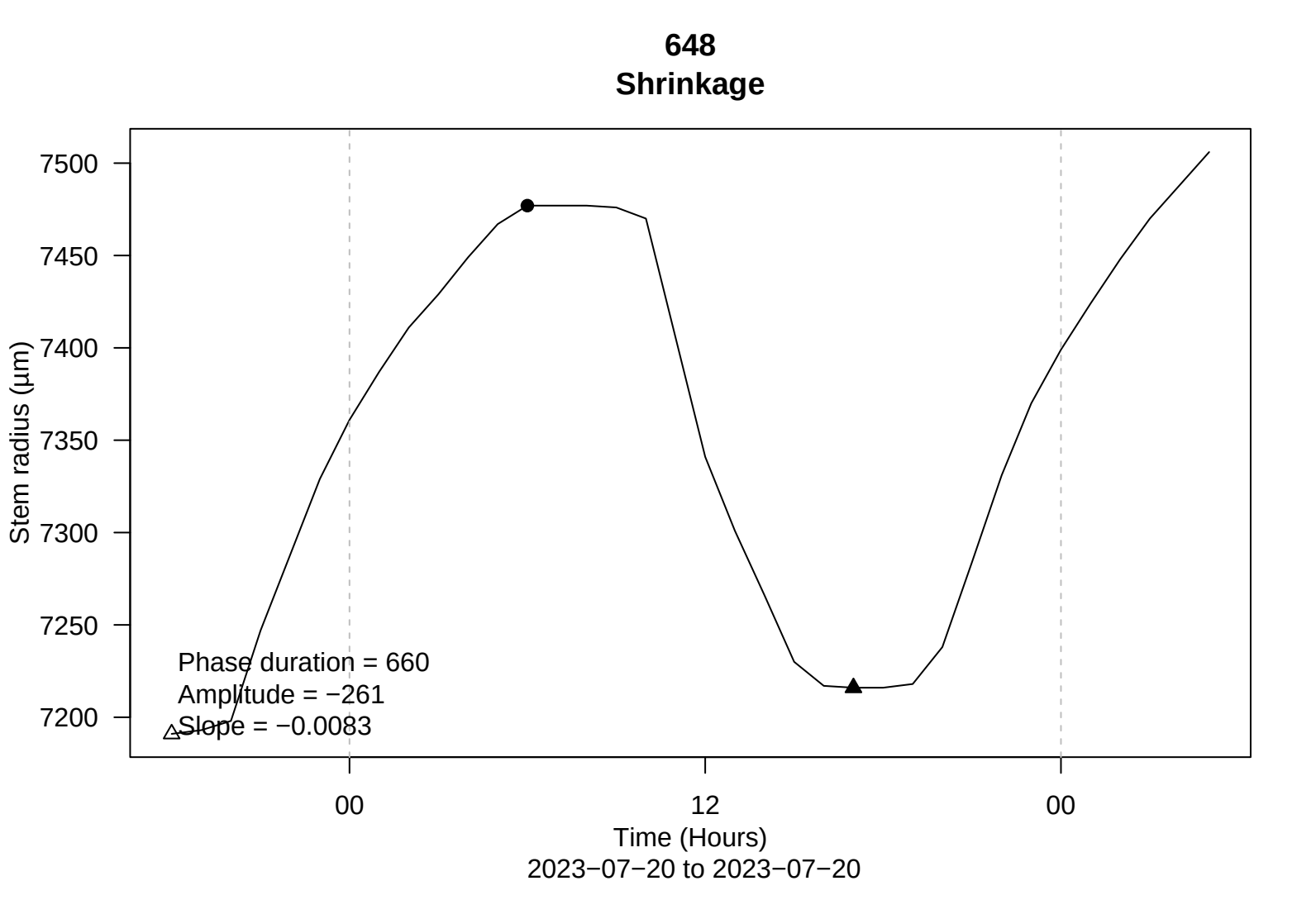

648
Expansion
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 780
Amplitude = 194
Slope = 0.0047
12
00
12
Time (Hours)
2023−07−17 to 2023−07−18

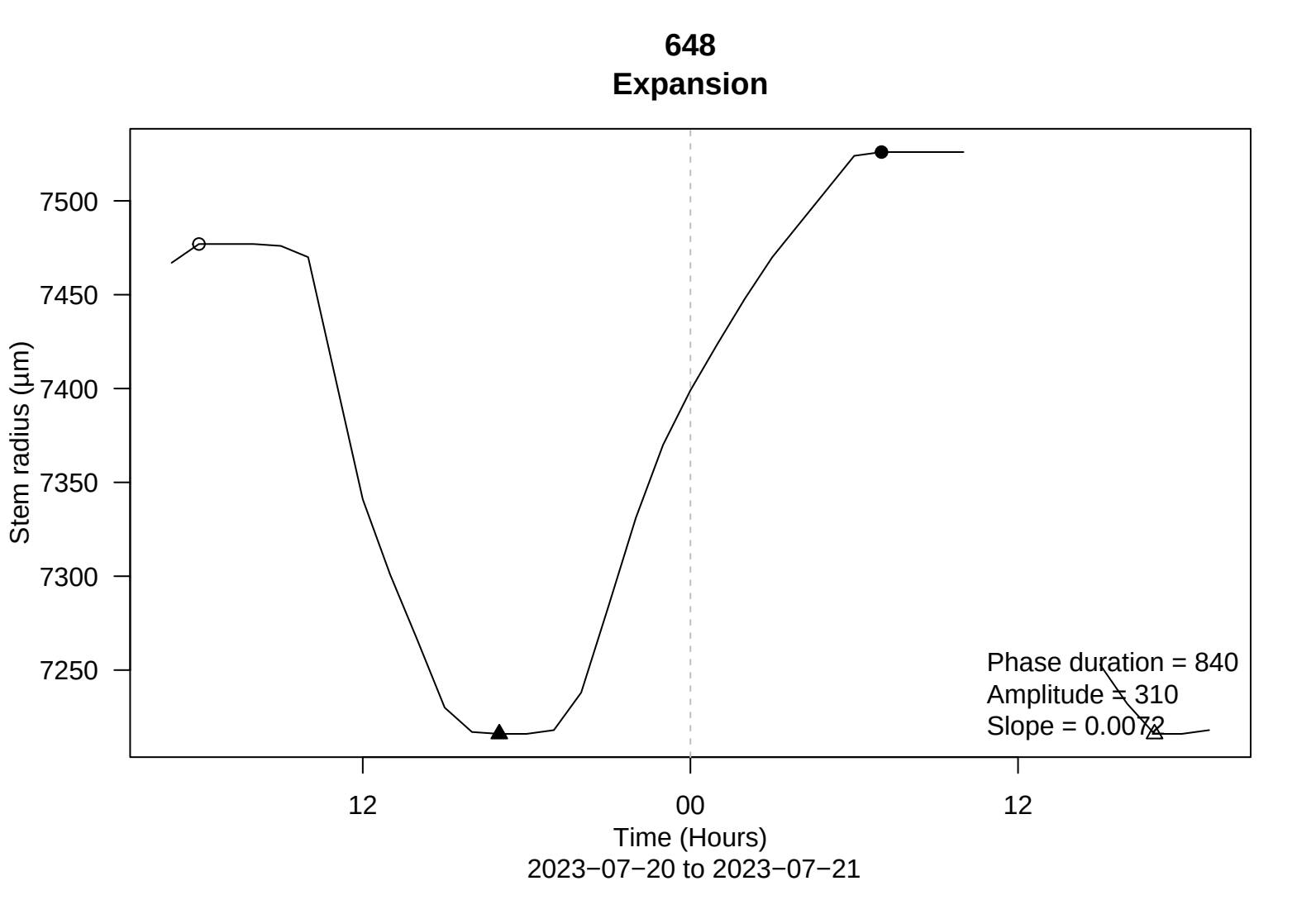

648
Shrinkage
7450
7400
7350
7300
Stem radius (µm)
Phase duration = 660
Amplitude = −198
Slope = −0.0061
00
12
00
Time (Hours)
2023−07−18 to 2023−07−18

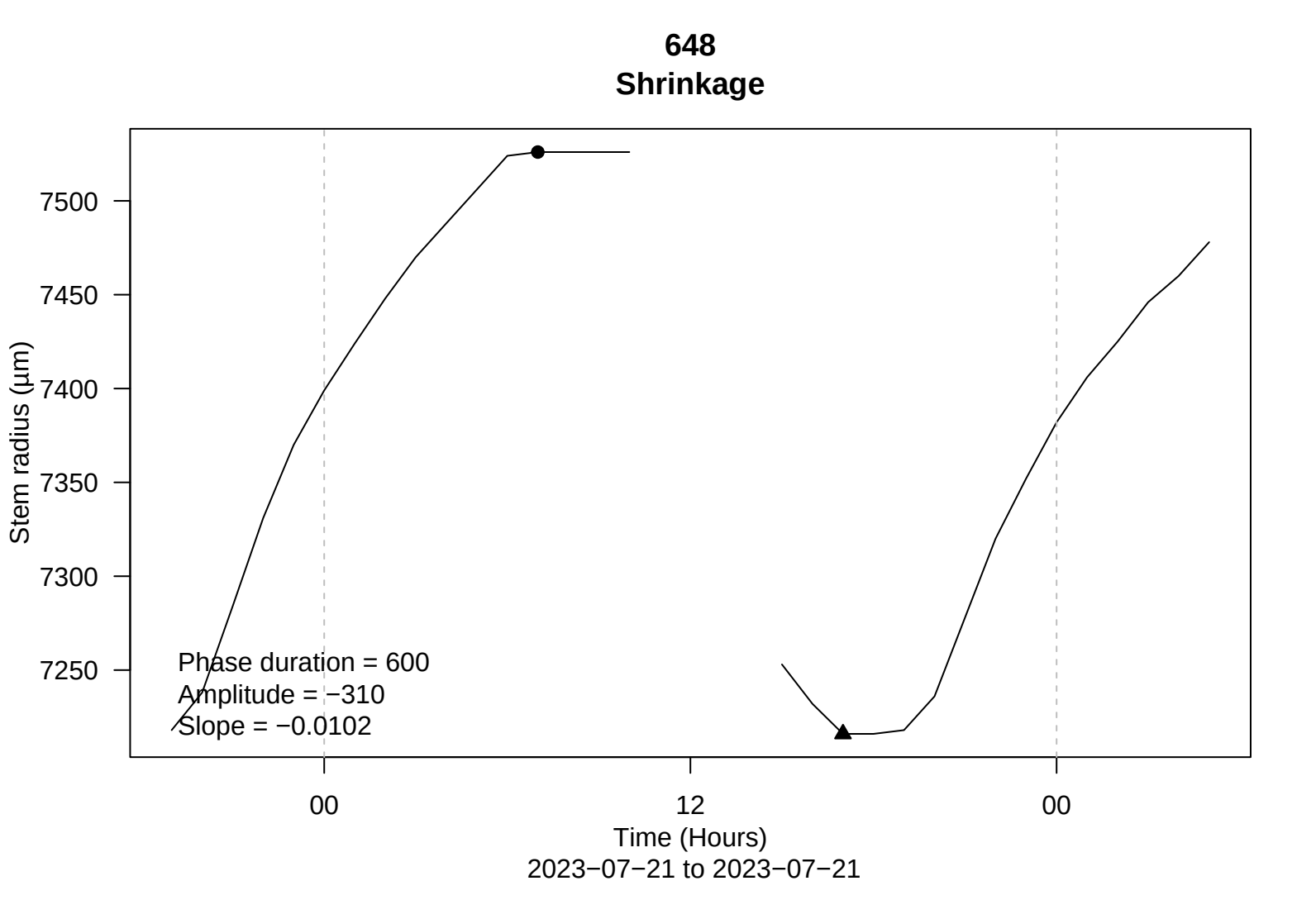

648
Expansion
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 780
Amplitude = 206
Slope = 0.0052
12
00
12
Time (Hours)
2023−07−18 to 2023−07−19

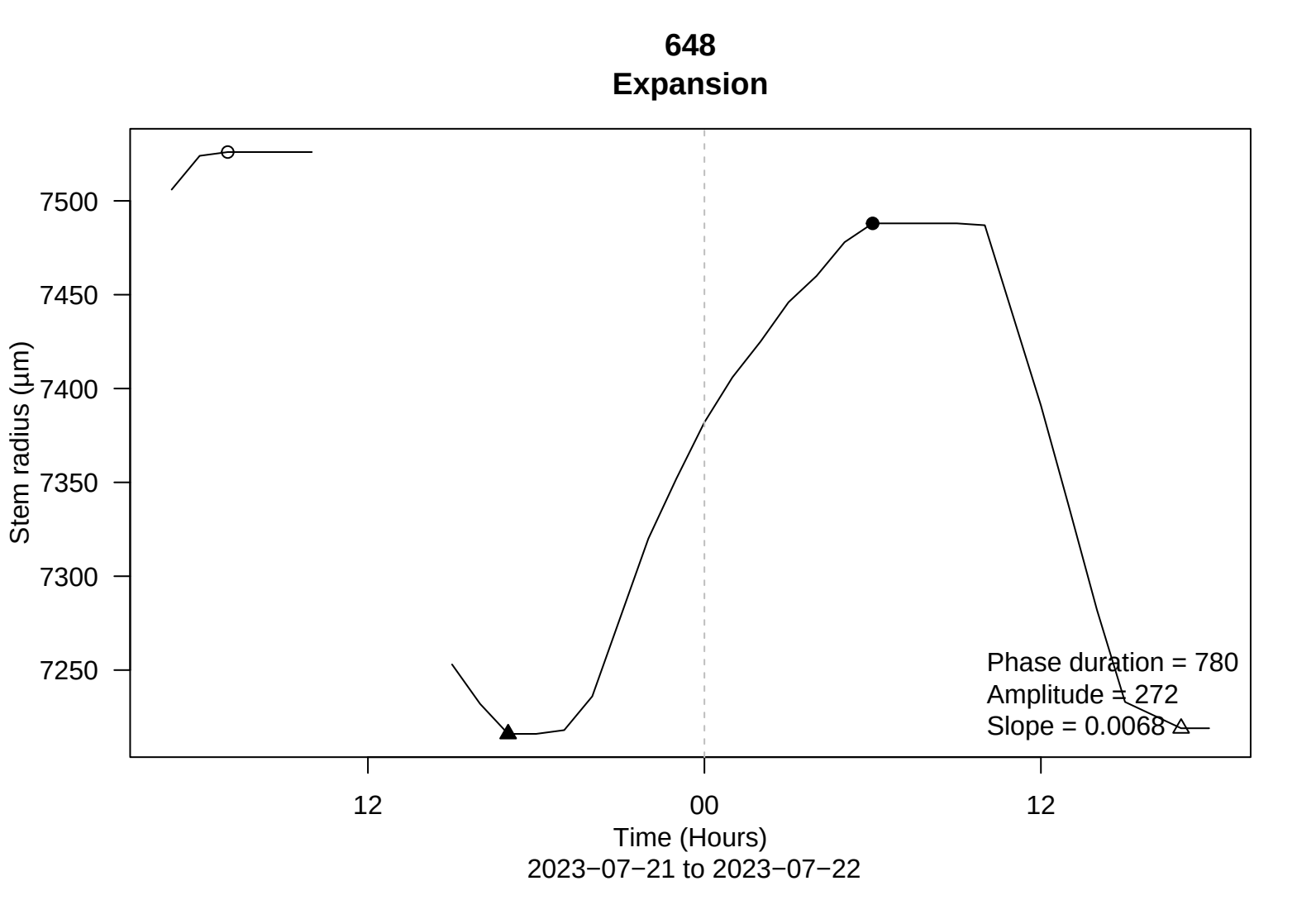

648
Shrinkage
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 720
Amplitude = −293
Slope = −0.0087
00
12
00
Time (Hours)
2023−07−19 to 2023−07−19

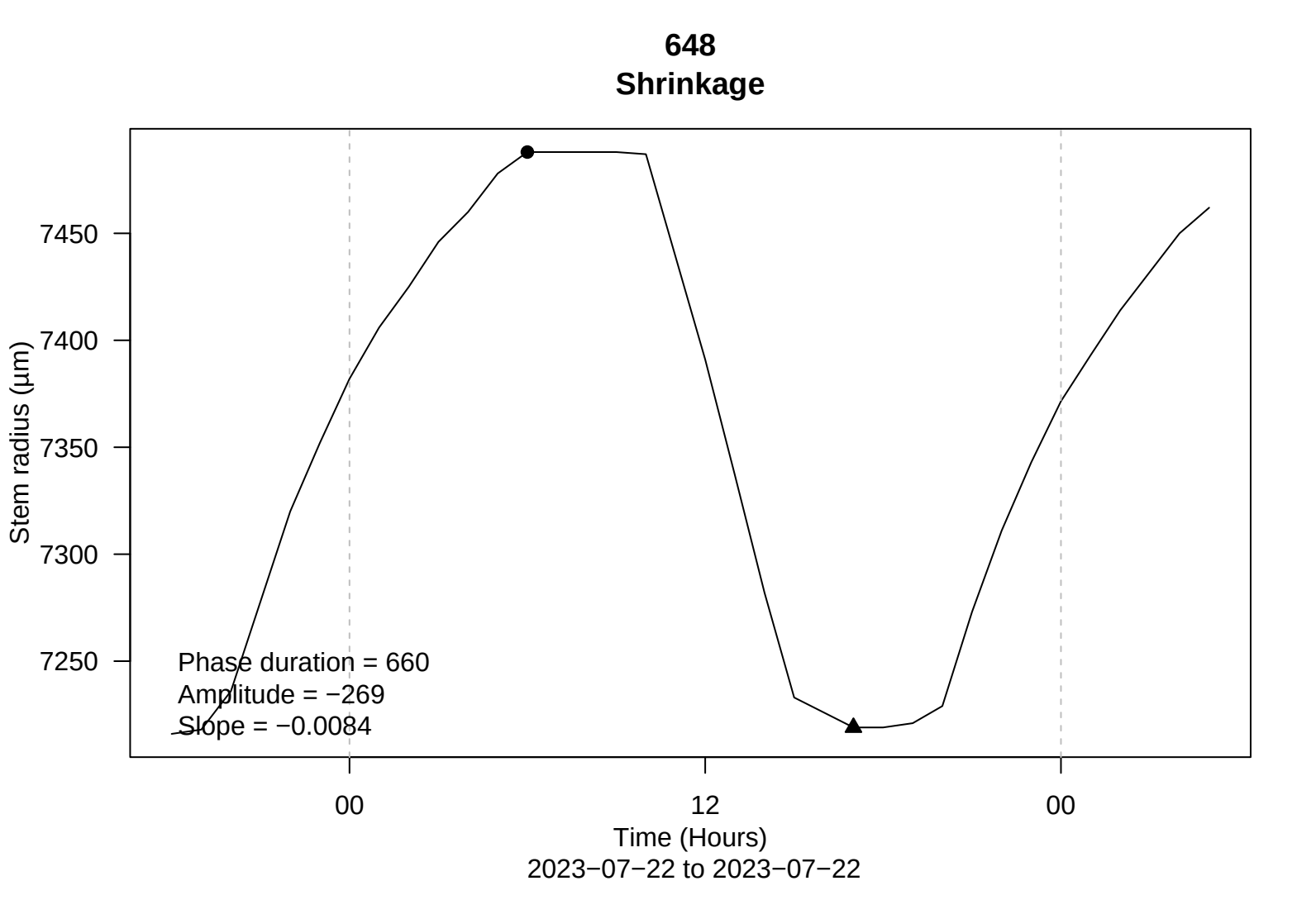

648
Expansion
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 720
Amplitude = 286
Slope = 0.0075
12
00
12
Time (Hours)
2023−07−19 to 2023−07−20

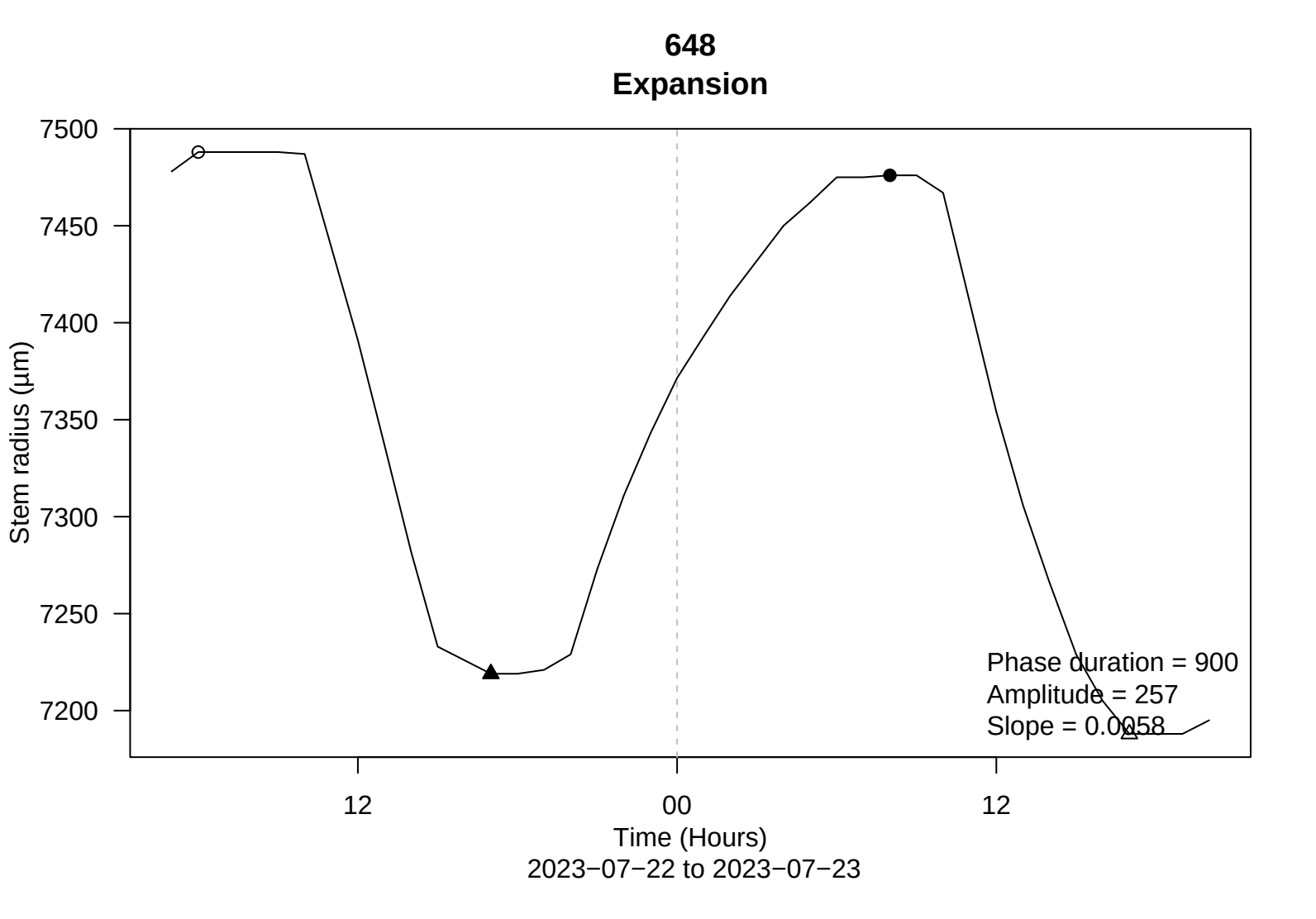

648
Shrinkage
7500
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 660
Amplitude = −261
Slope = −0.0083
00
12
00
Time (Hours)
2023−07−20 to 2023−07−20

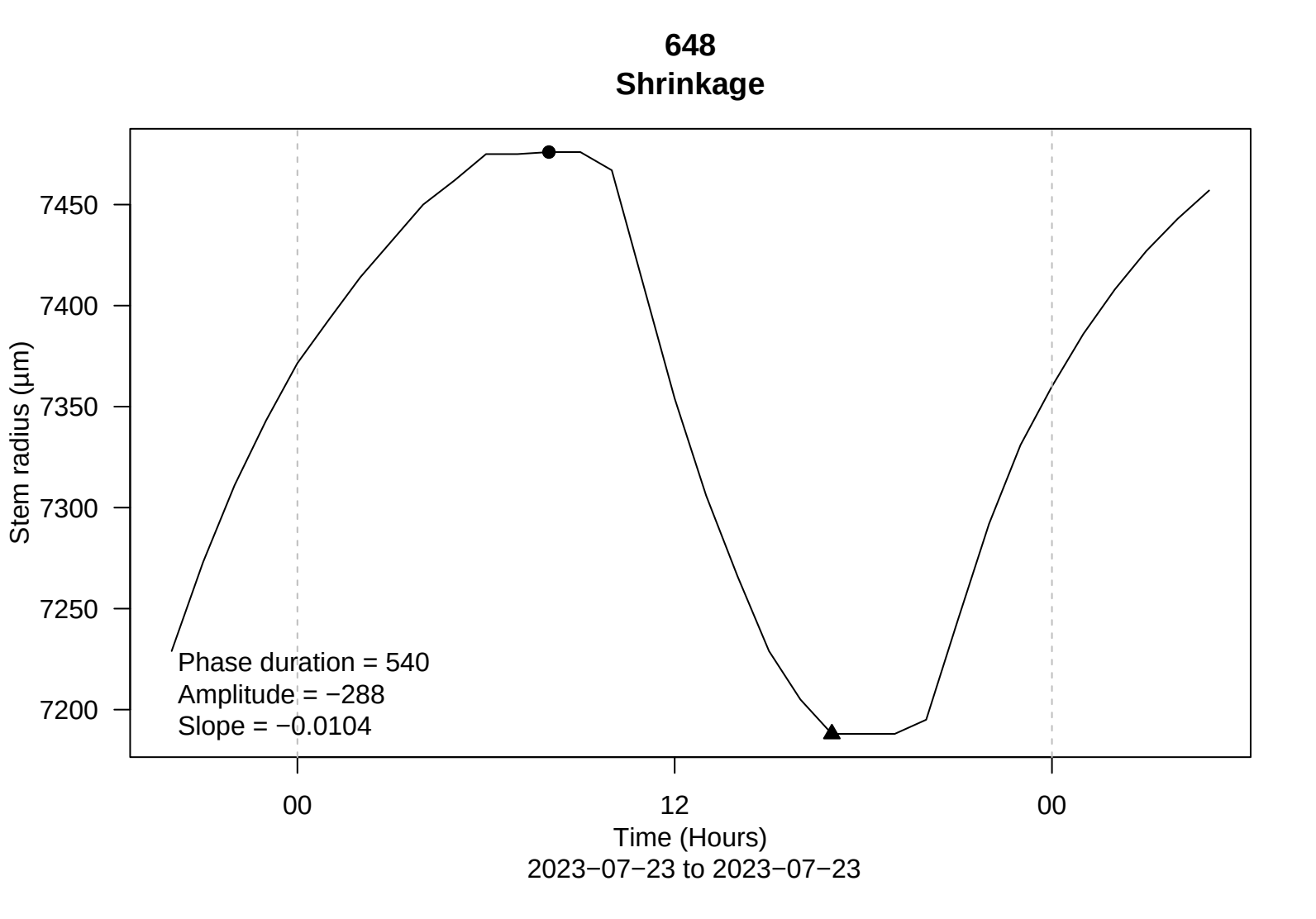

648
Expansion
7500
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 840
Amplitude = 310
Slope = 0.0072
12
00
12
Time (Hours)
2023−07−20 to 2023−07−21

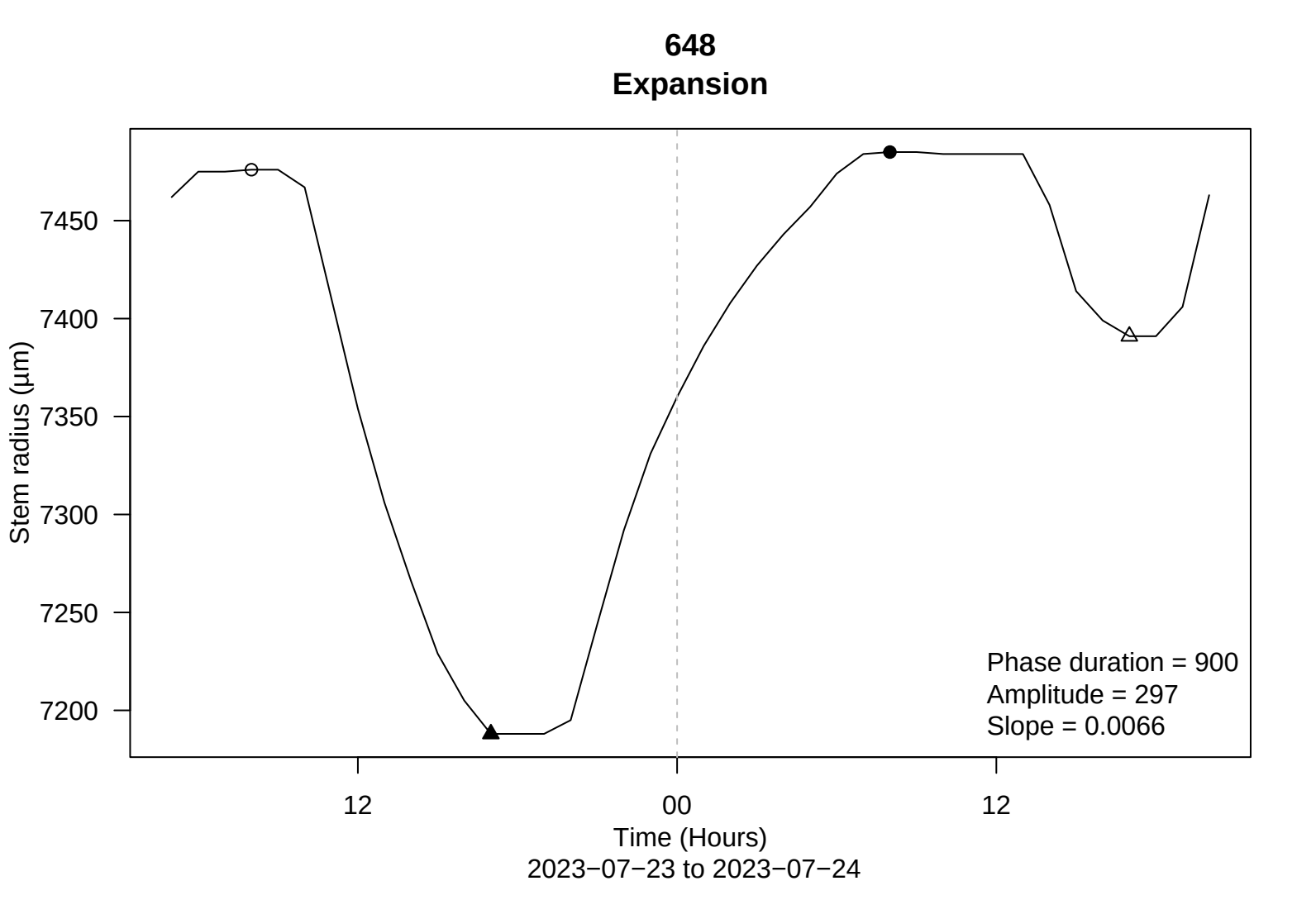

648
Shrinkage
7500
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 600
Amplitude = −310
Slope = −0.0102
00
12
00
Time (Hours)
2023−07−21 to 2023−07−21

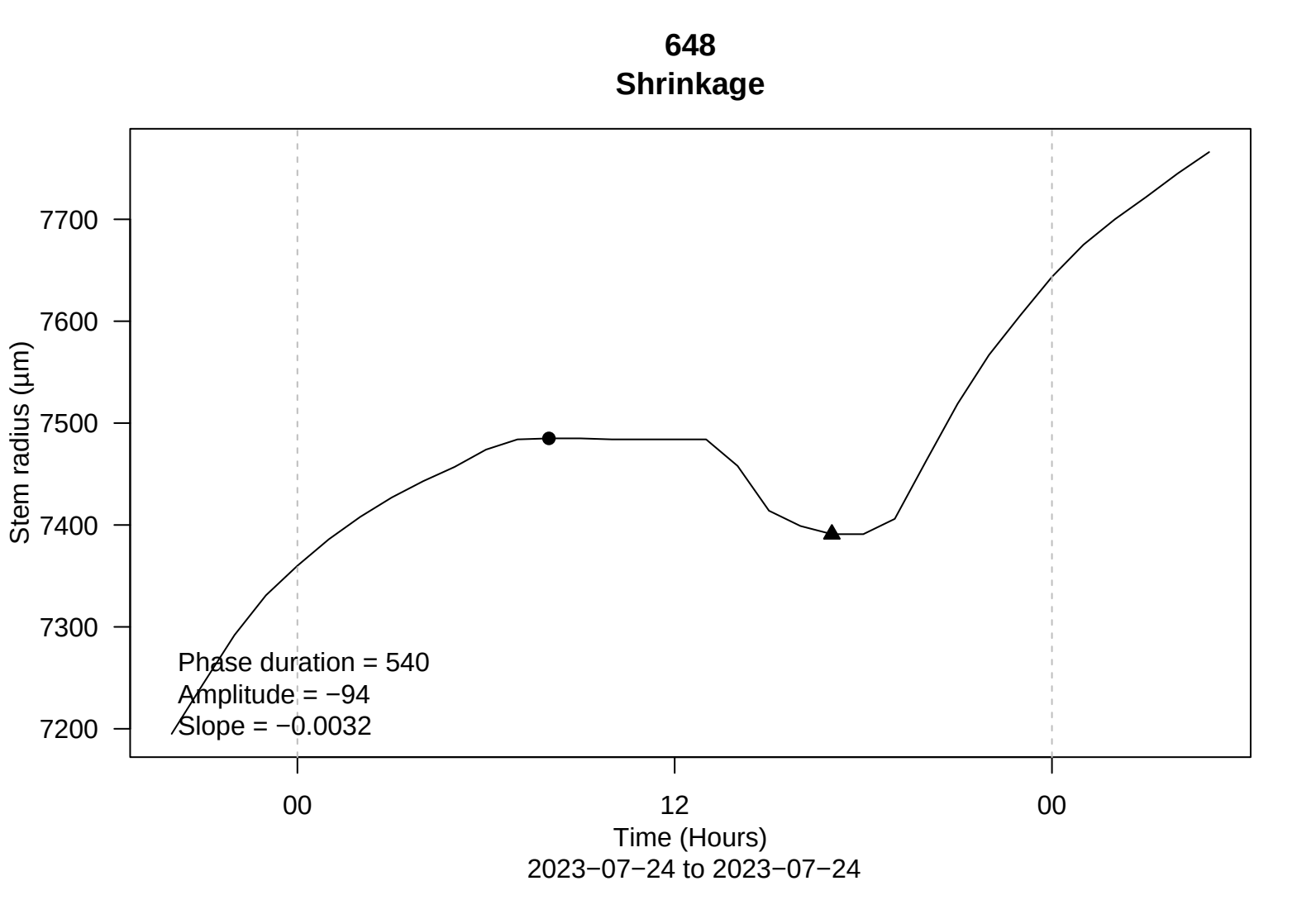

648
Expansion
7500
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 780
Amplitude = 272
Slope = 0.0068
12
00
12
Time (Hours)
2023−07−21 to 2023−07−22

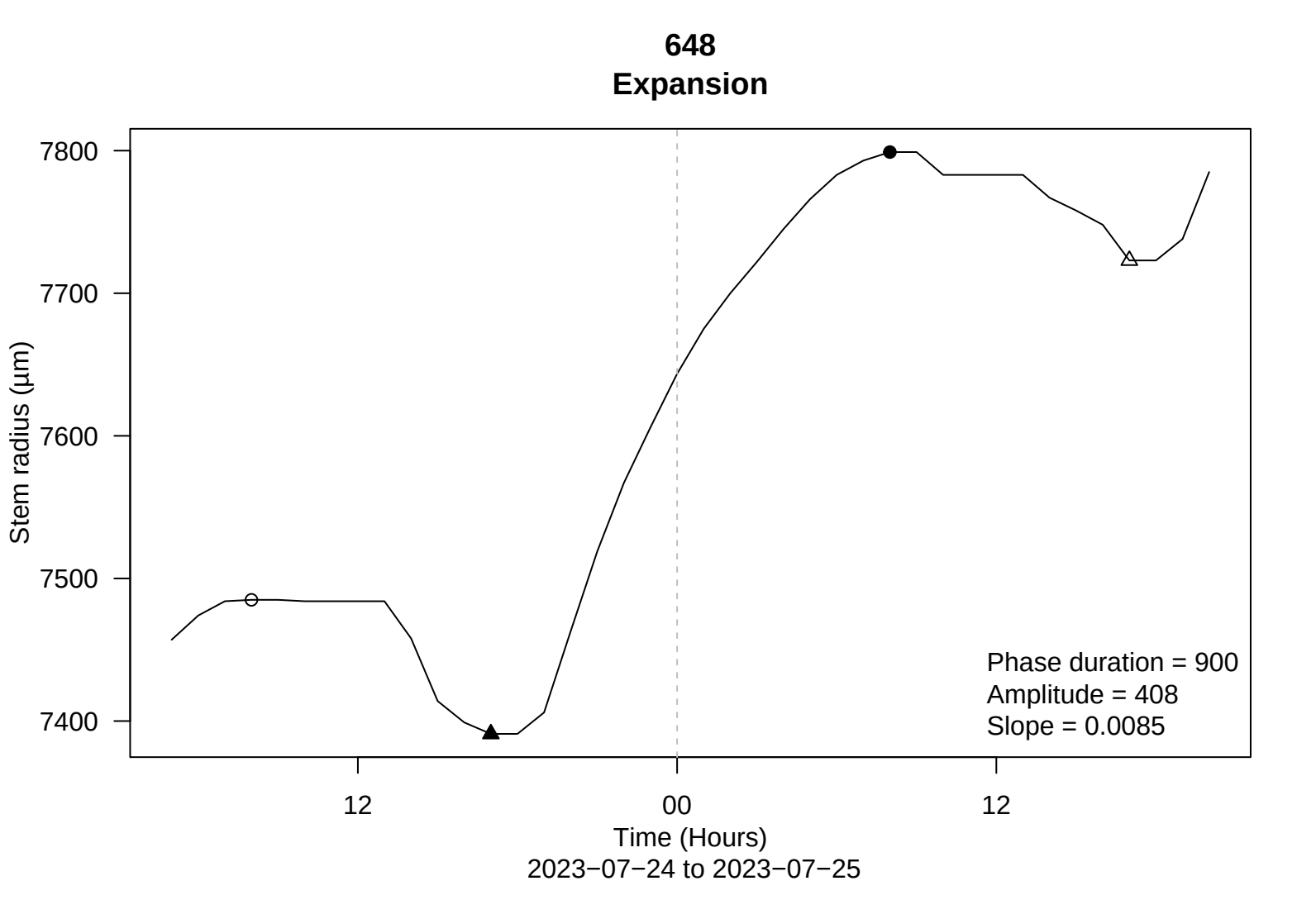

648
Shrinkage
7450
7400
7350
7300
7250
Stem radius (µm)
Phase duration = 660
Amplitude = −269
Slope = −0.0084
00
12
00
Time (Hours)
2023−07−22 to 2023−07−22

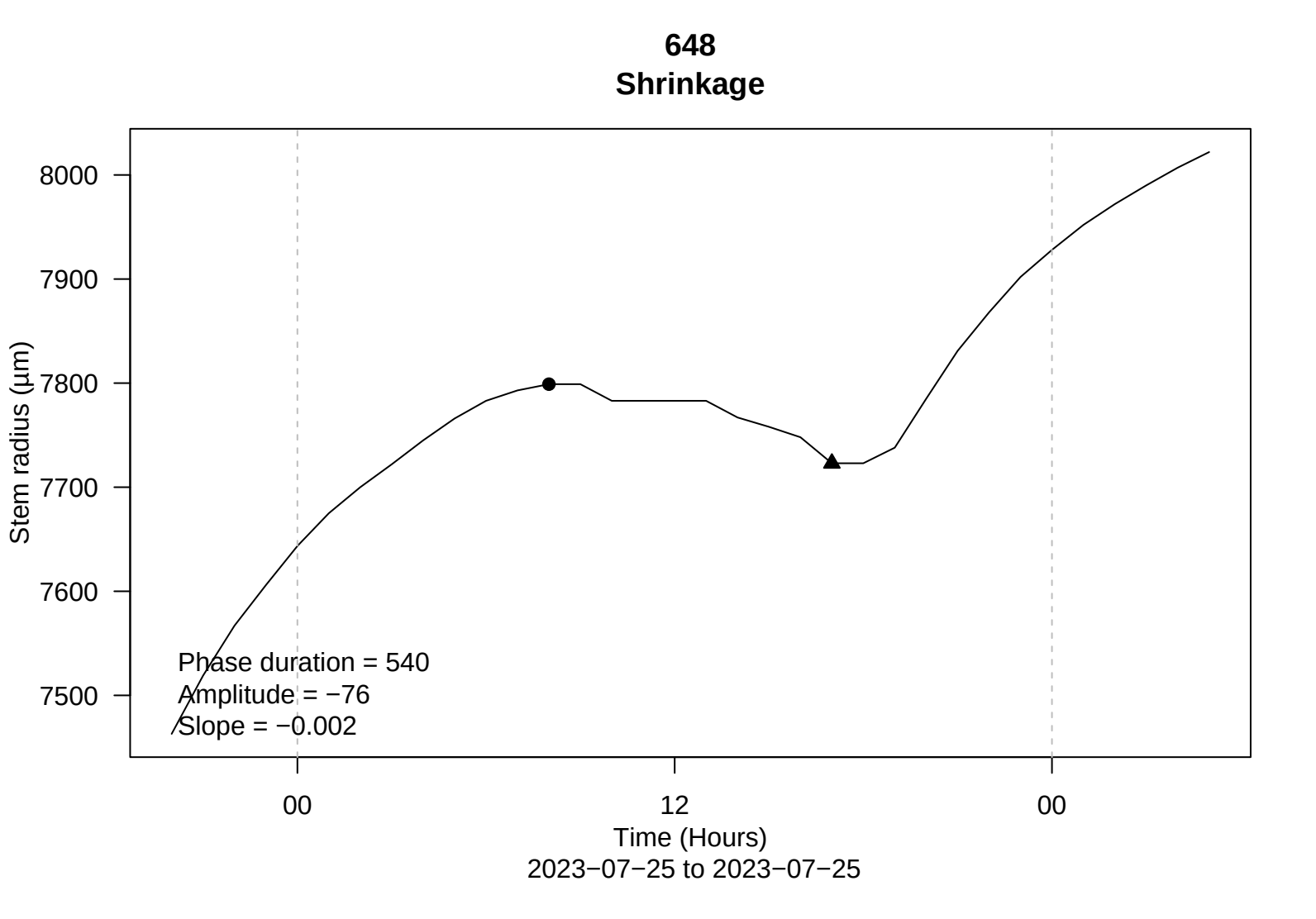

648
Expansion
7500
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 900
Amplitude = 257
Slope = 0.0058
12
00
12
Time (Hours)
2023−07−22 to 2023−07−23

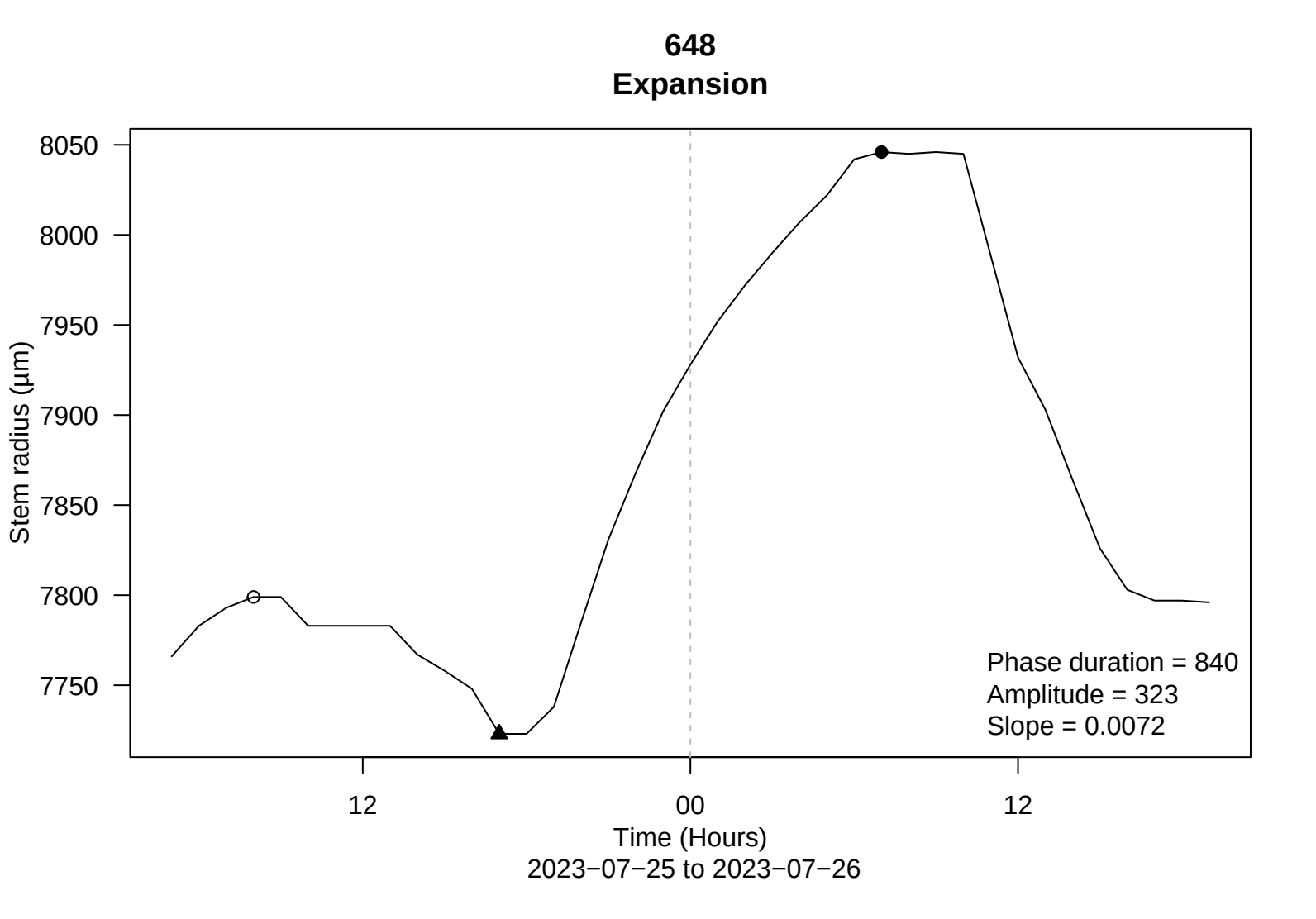

648
Shrinkage
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 540
Amplitude = −288
Slope = −0.0104
00
12
00
Time (Hours)
2023−07−23 to 2023−07−23

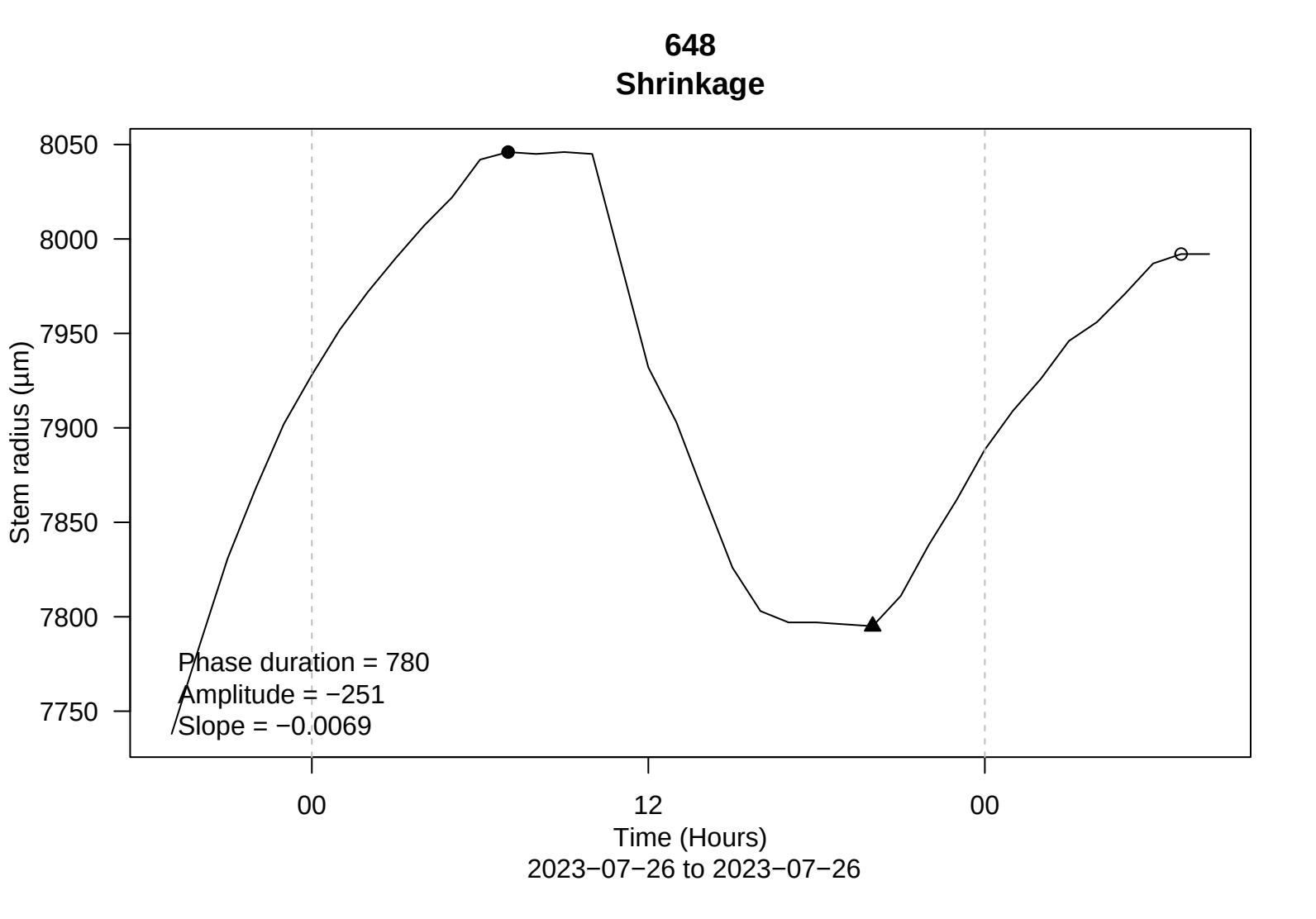

648
Expansion
7450
7400
7350
7300
7250
7200
Stem radius (µm)
Phase duration = 900
Amplitude = 297
Slope = 0.0066
12
00
12
Time (Hours)
2023−07−23 to 2023−07−24

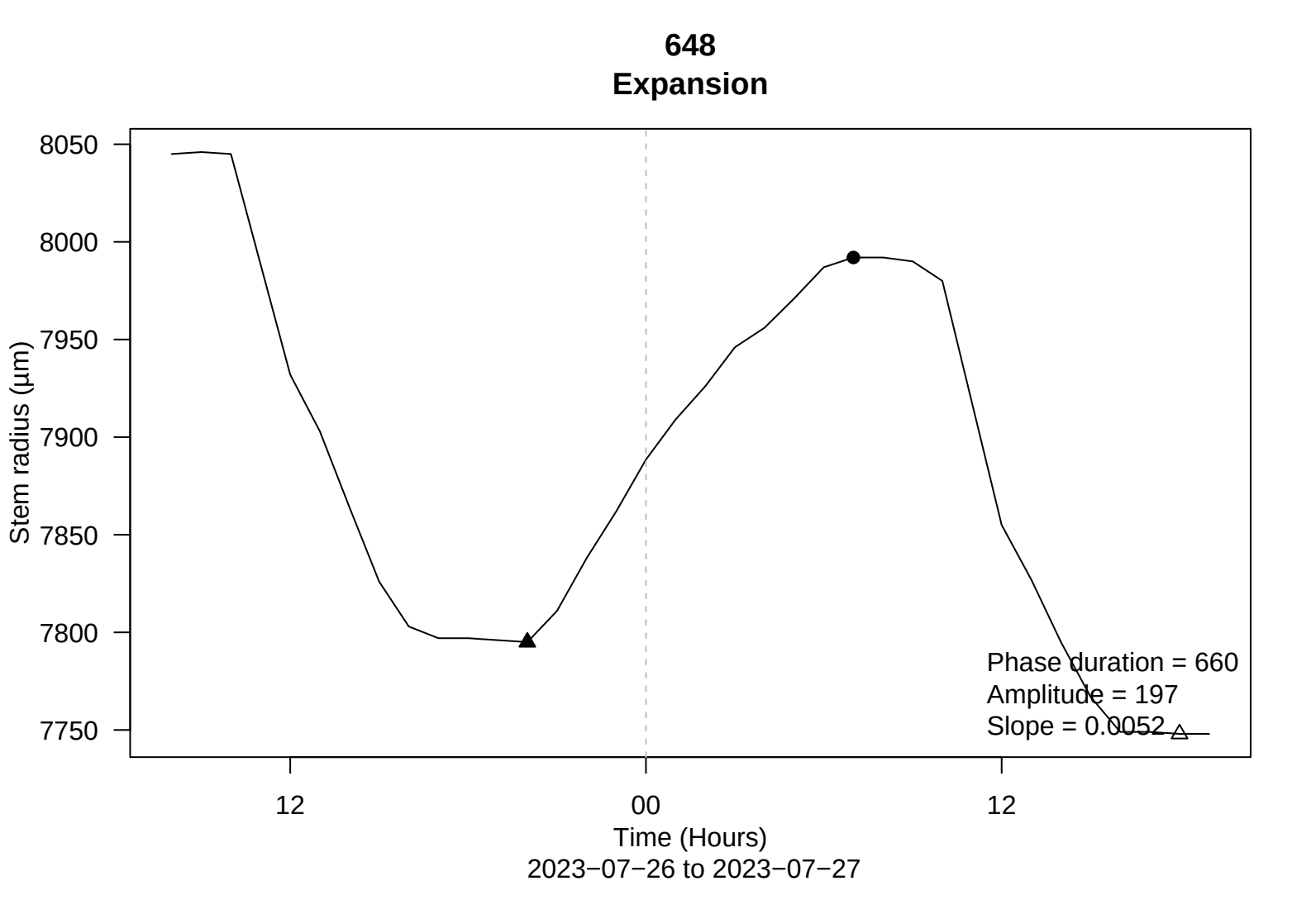

648
Shrinkage
7700
7600
7500
7400
7300
7200
Stem radius (µm)
Phase duration = 540
Amplitude = −94
Slope = −0.0032
00
12
00
Time (Hours)
2023−07−24 to 2023−07−24

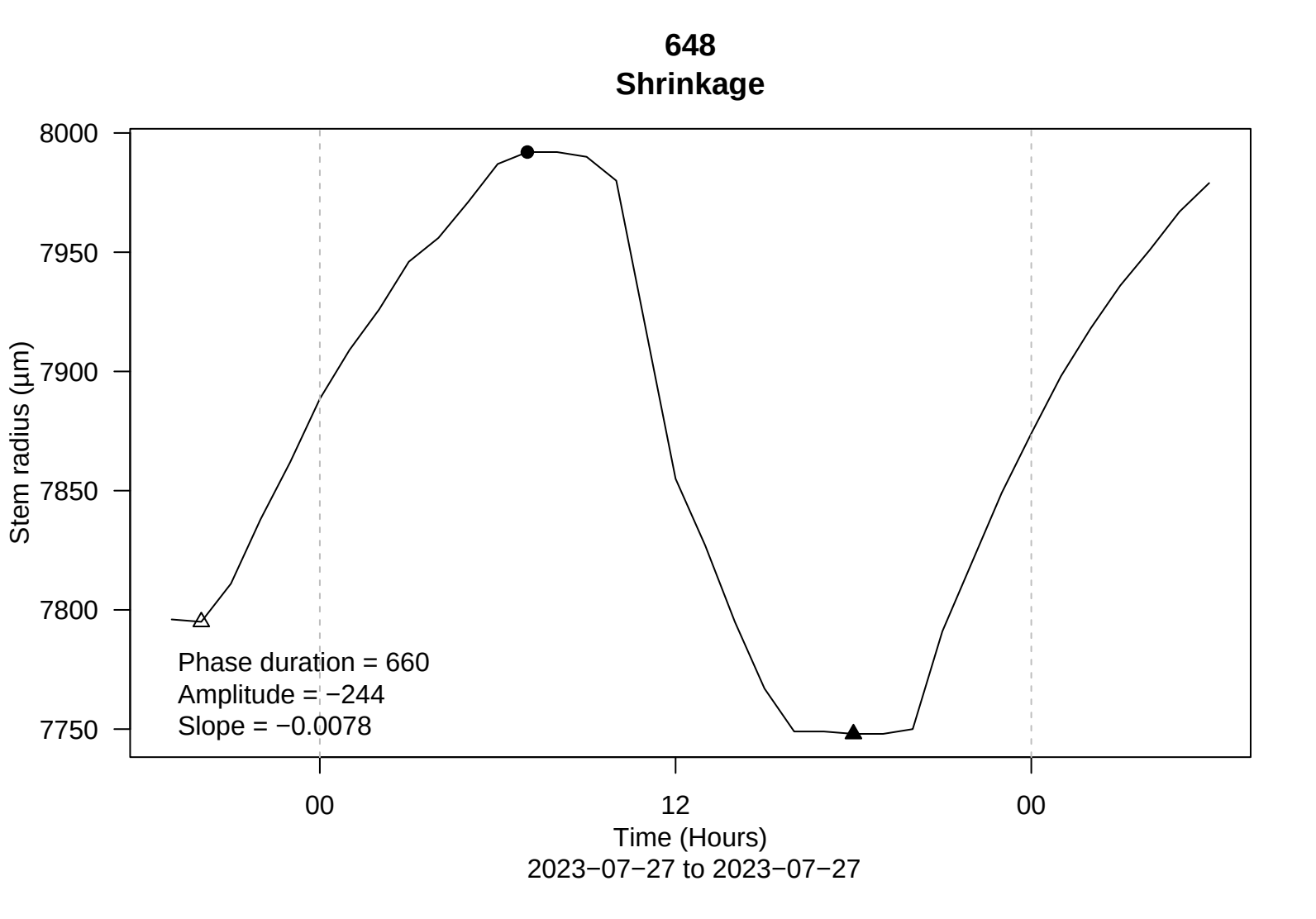

648
Expansion
7800
7700
7600
7500
7400
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−24 to 2023−07−25
Phase duration = 900
Amplitude = 408
Slope = 0.0085

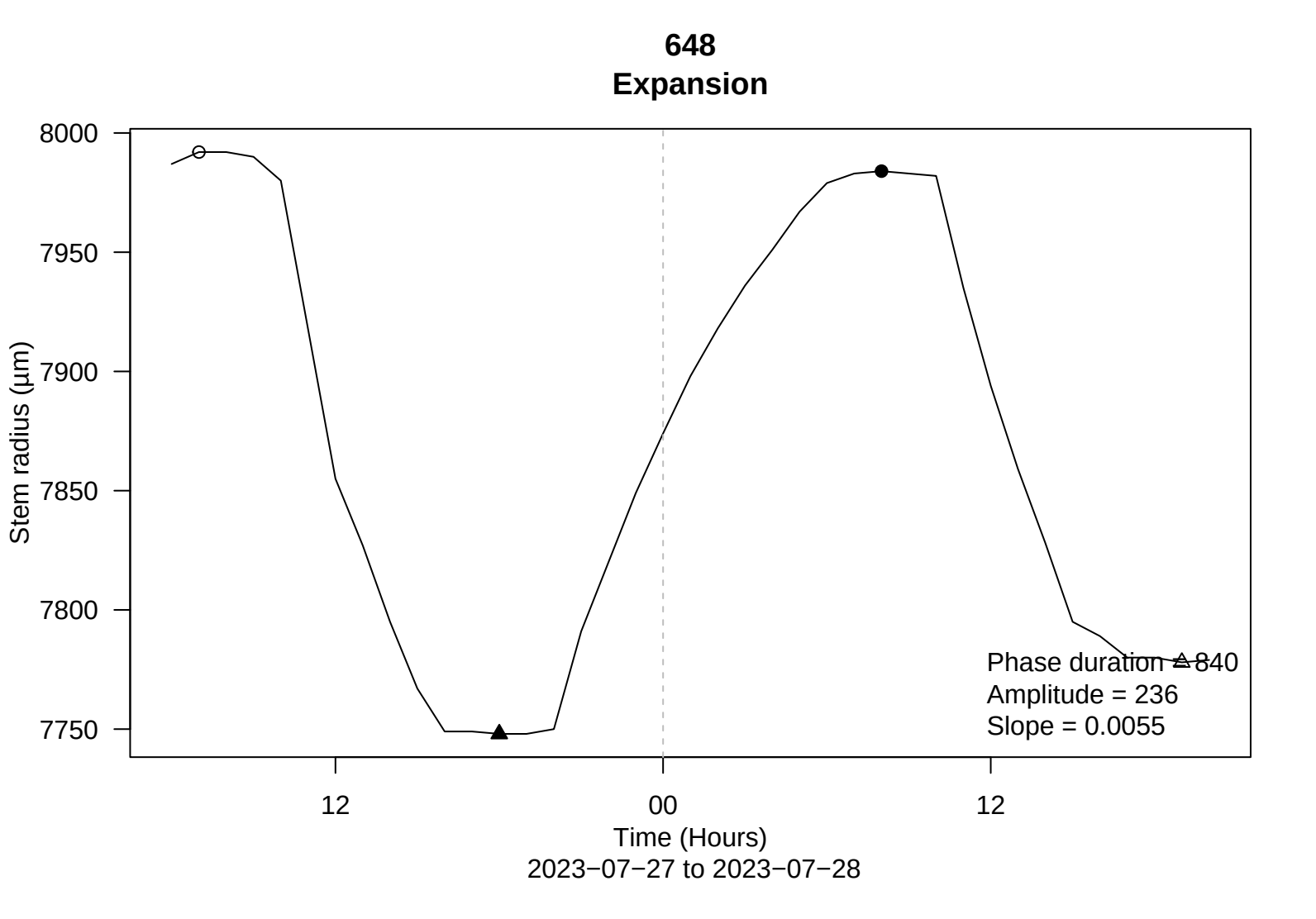

648
Shrinkage
8000
7900
7800
7700
7600
7500
Stem radius (µm)
Phase duration = 540
Amplitude = −76
Slope = −0.002
00
12
00
Time (Hours)
2023−07−25 to 2023−07−25

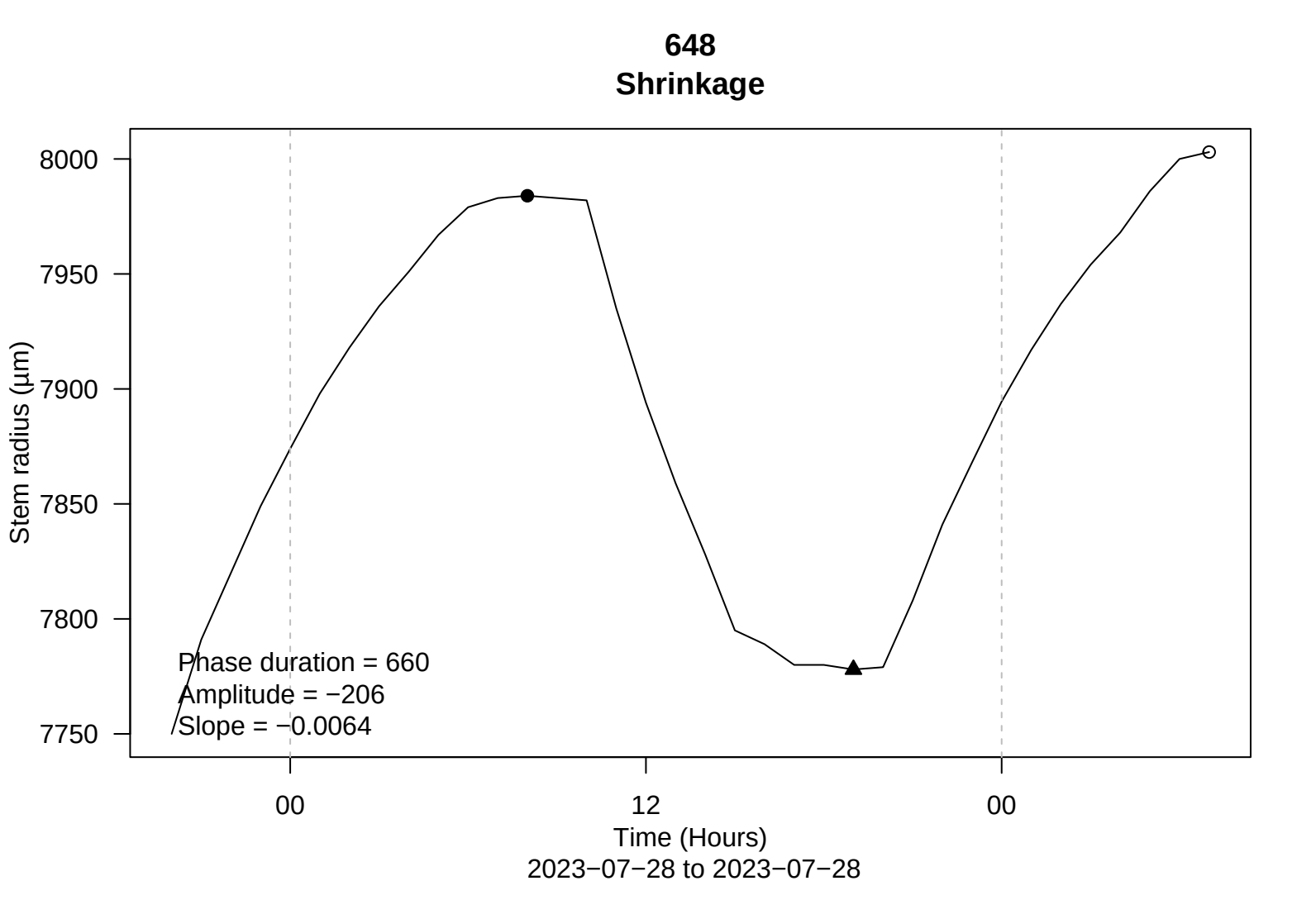

648
Expansion
8050
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 840
Amplitude = 323
Slope = 0.0072
12
00
12
Time (Hours)
2023−07−25 to 2023−07−26

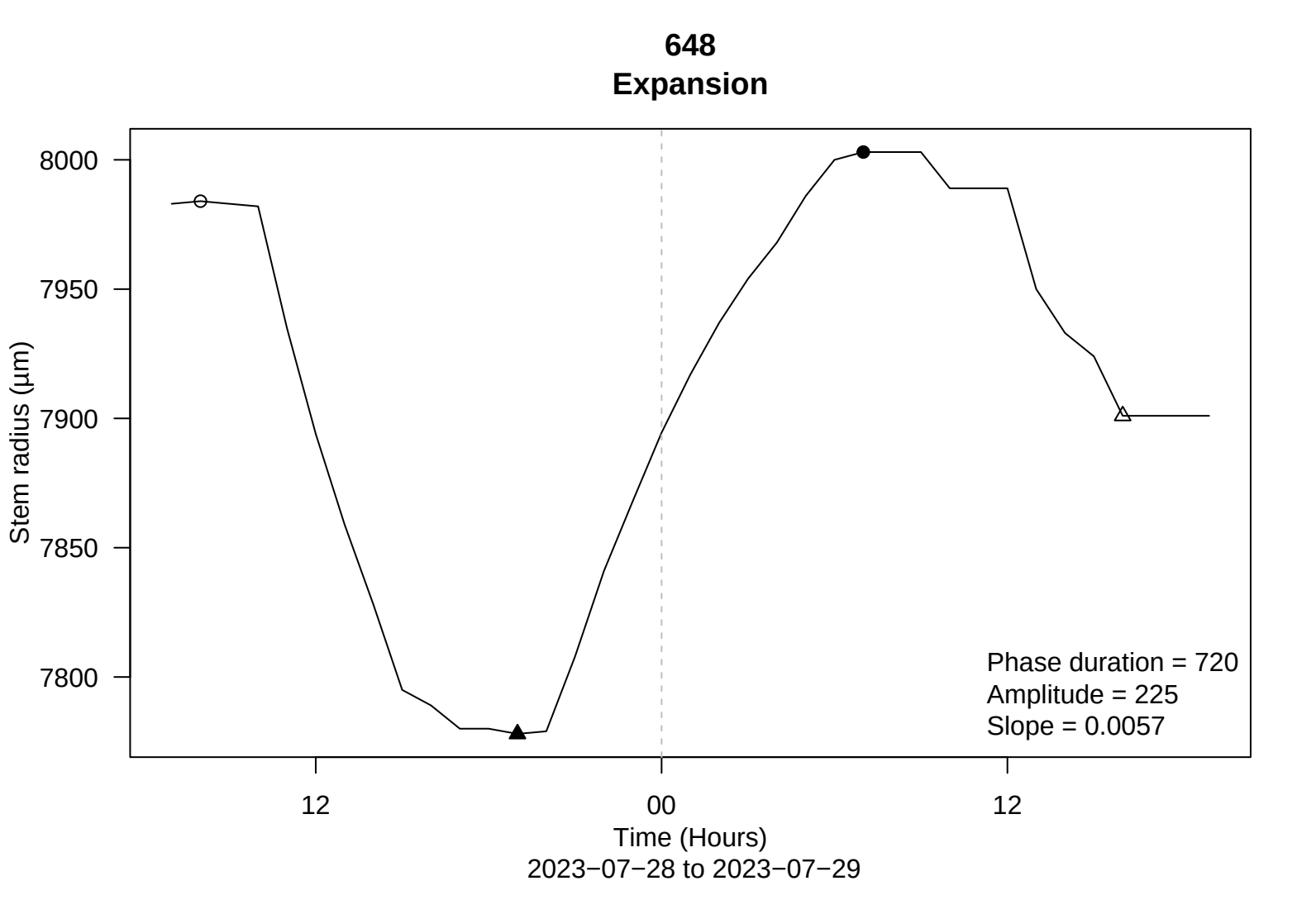

648
Shrinkage
8050
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 780
Amplitude = −251
Slope = −0.0069
00
12
00
Time (Hours)
2023−07−26 to 2023−07−26

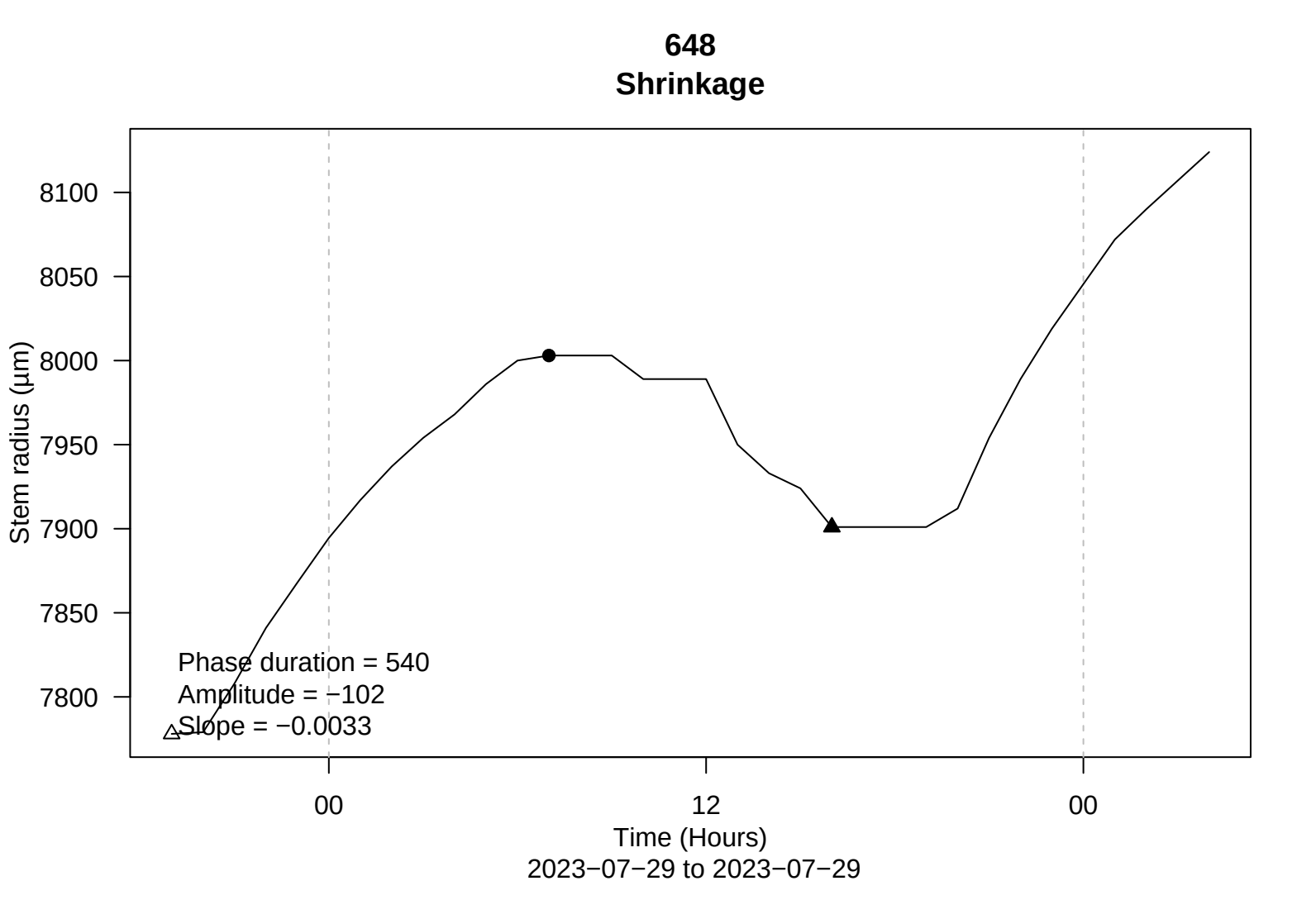

648
Expansion
8050
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 660
Amplitude = 197
Slope = 0.0052
12
00
12
Time (Hours)
2023−07−26 to 2023−07−27

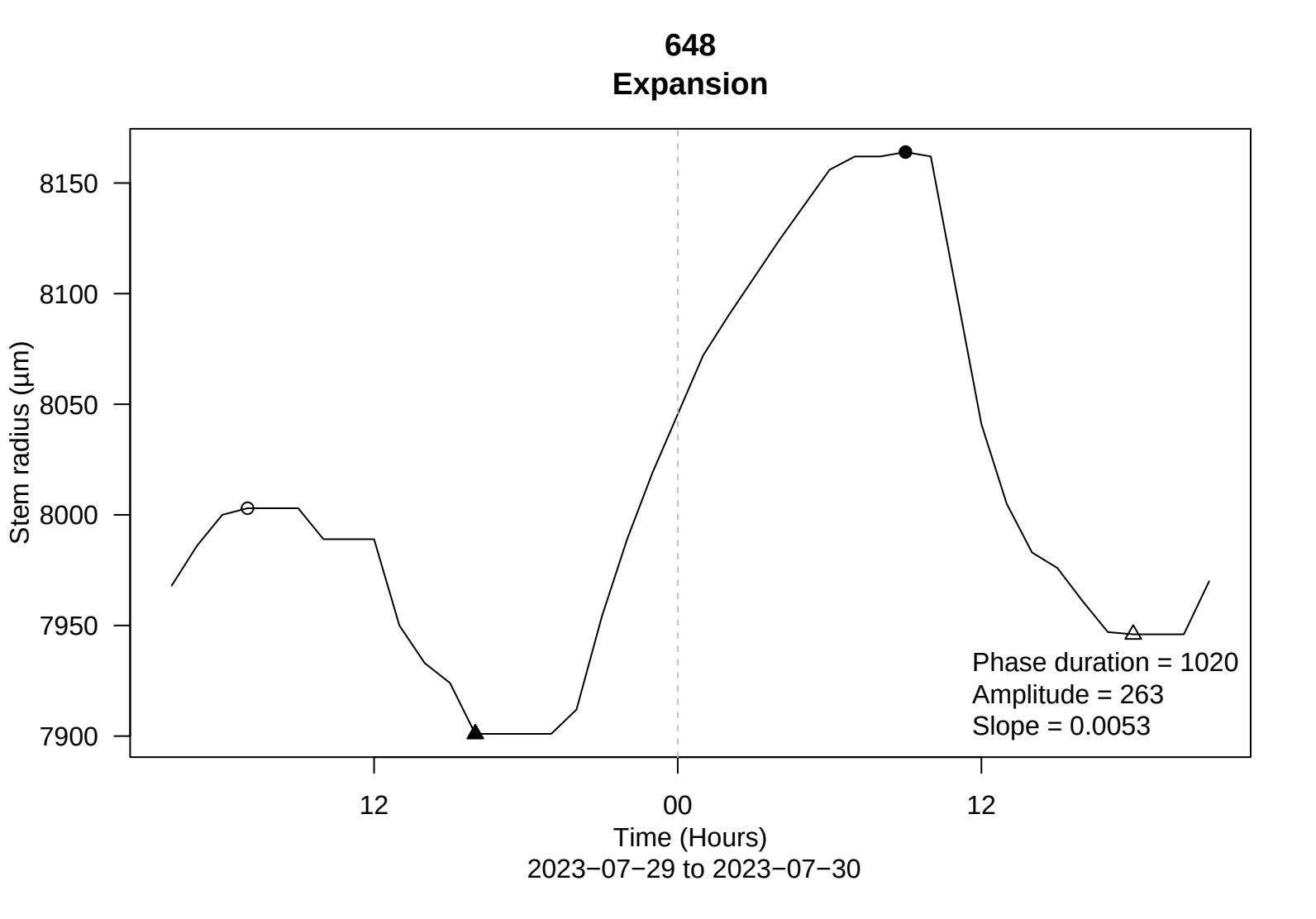

648
Shrinkage
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 660
Amplitude = −244
Slope = −0.0078
00
12
00
Time (Hours)
2023−07−27 to 2023−07−27

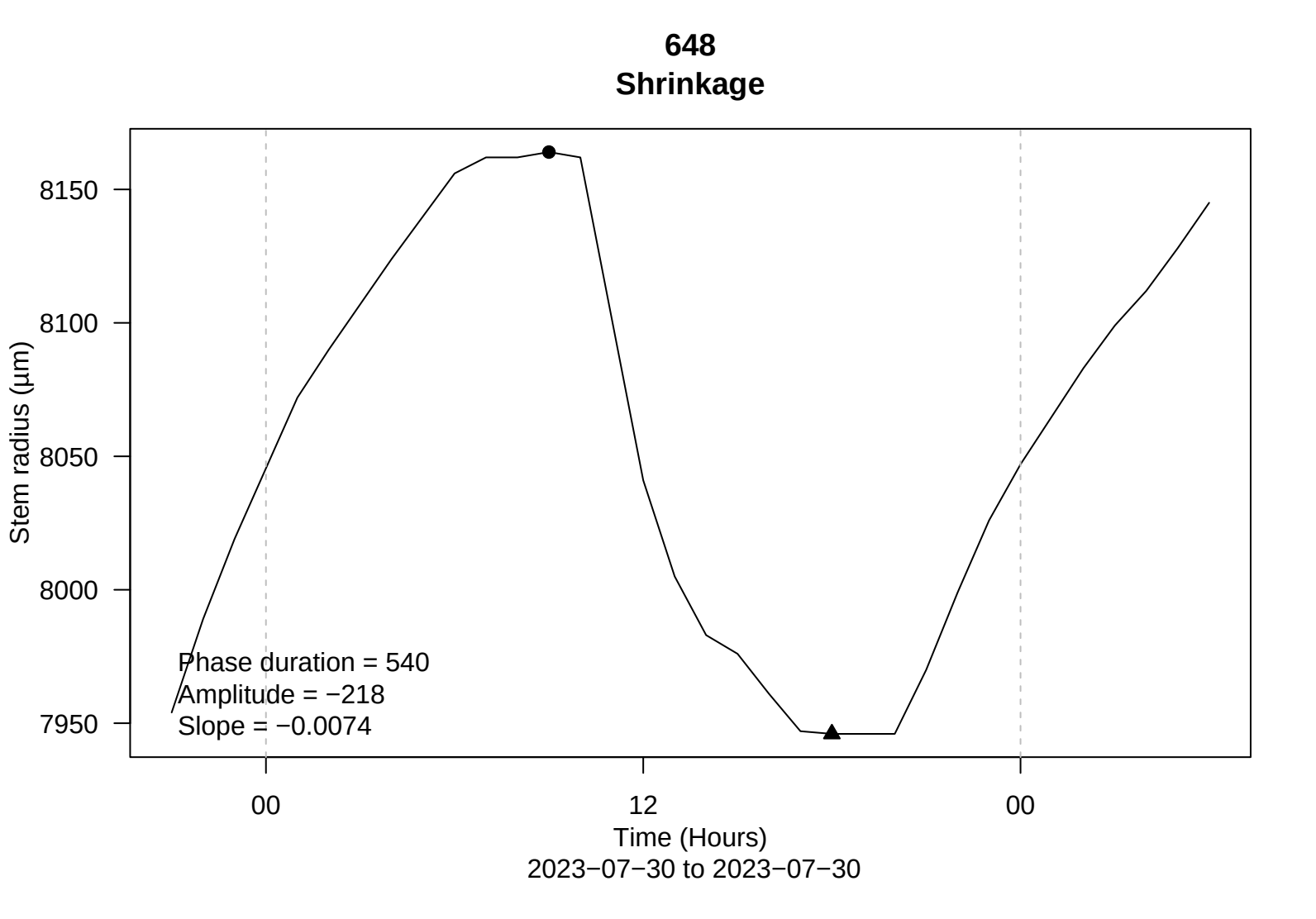

648
Expansion
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 840
Amplitude = 236
Slope = 0.0055
12
00
12
Time (Hours)
2023−07−27 to 2023−07−28

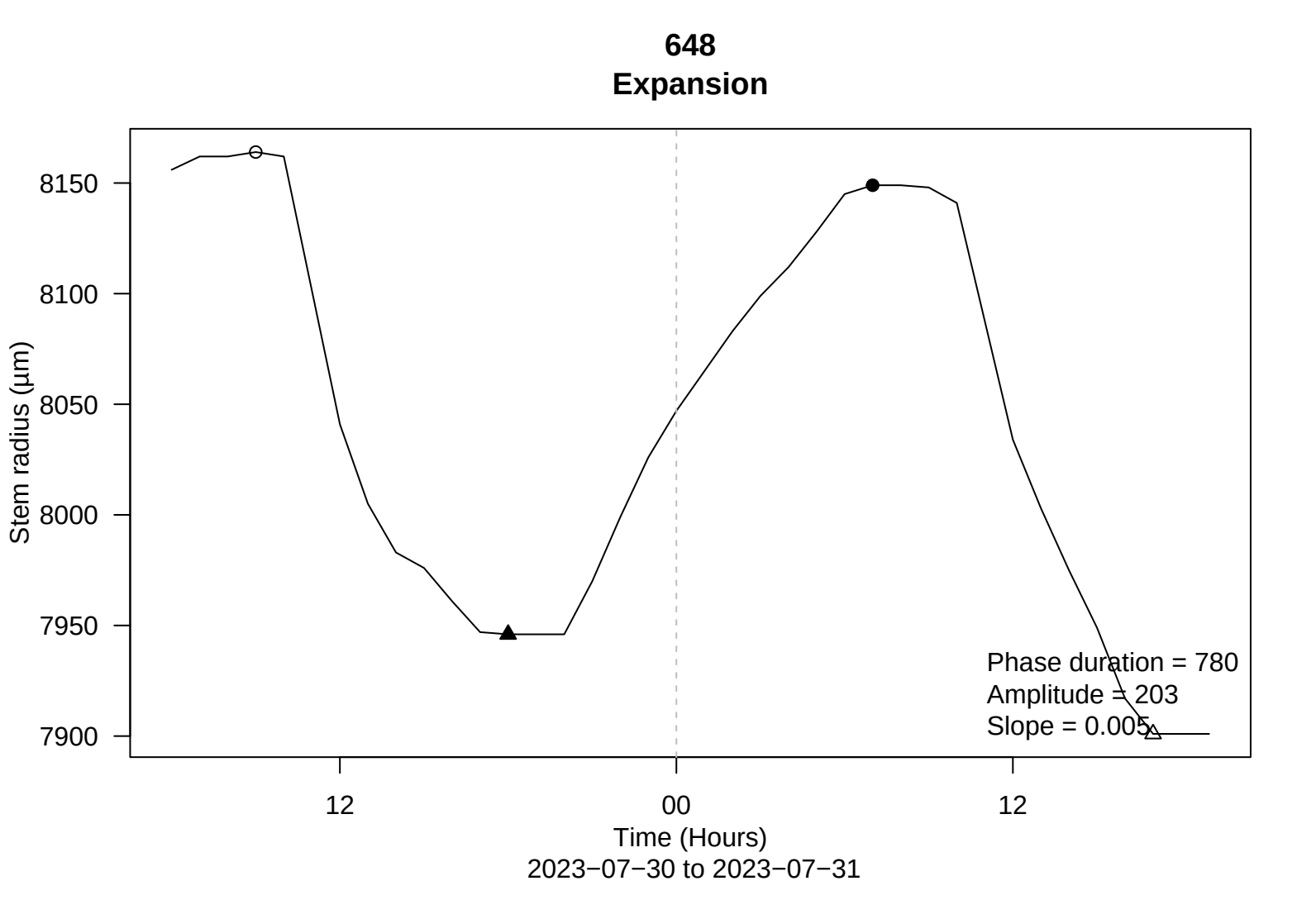

648
Shrinkage
8000
7950
7900
7850
7800
7750
Stem radius (µm)
Phase duration = 660
Amplitude = −206
Slope = −0.0064
00
12
00
Time (Hours)
2023−07−28 to 2023−07−28

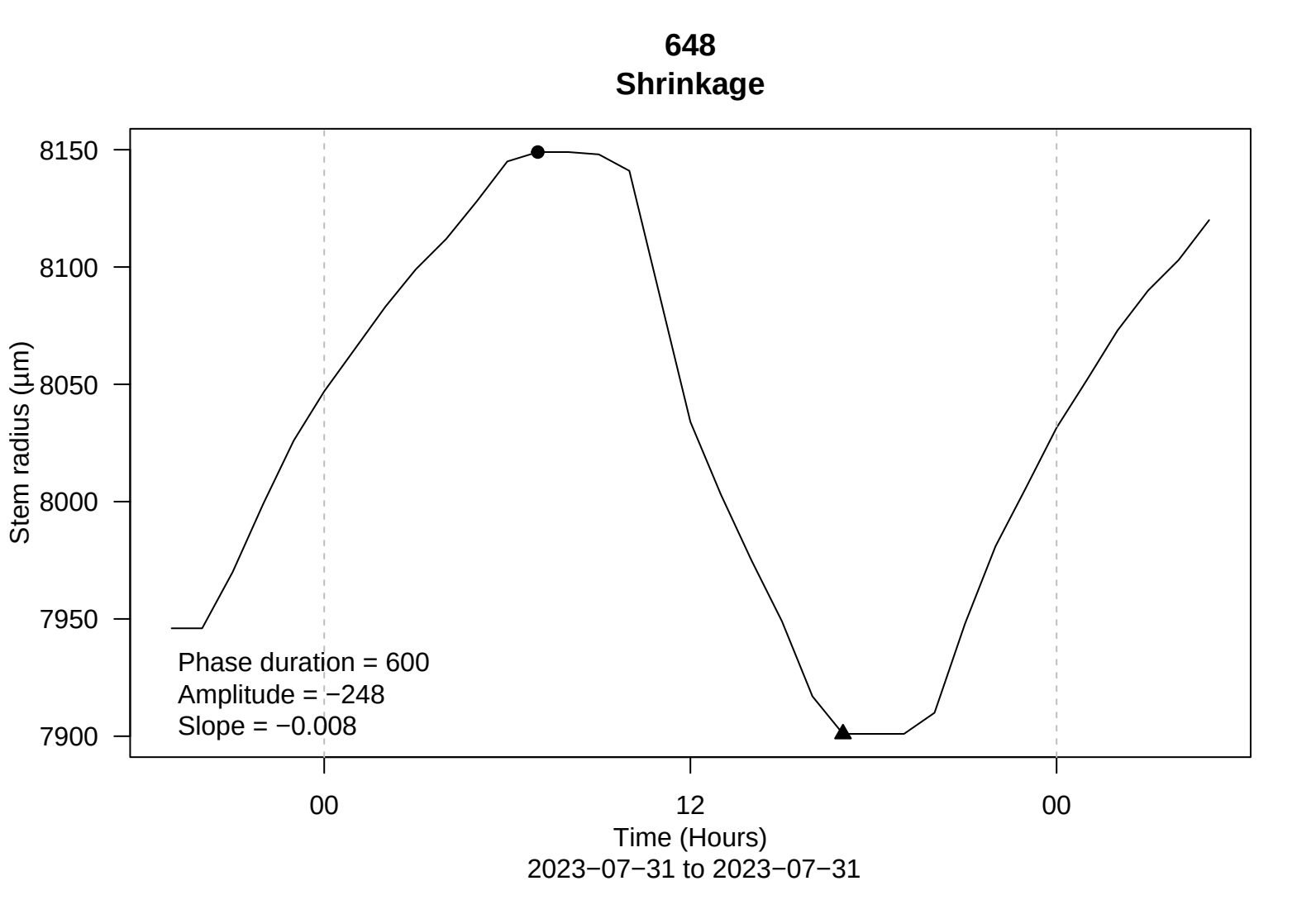

648
Expansion
8000
7950
7900
7850
7800
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−28 to 2023−07−29
Phase duration = 720
Amplitude = 225
Slope = 0.0057

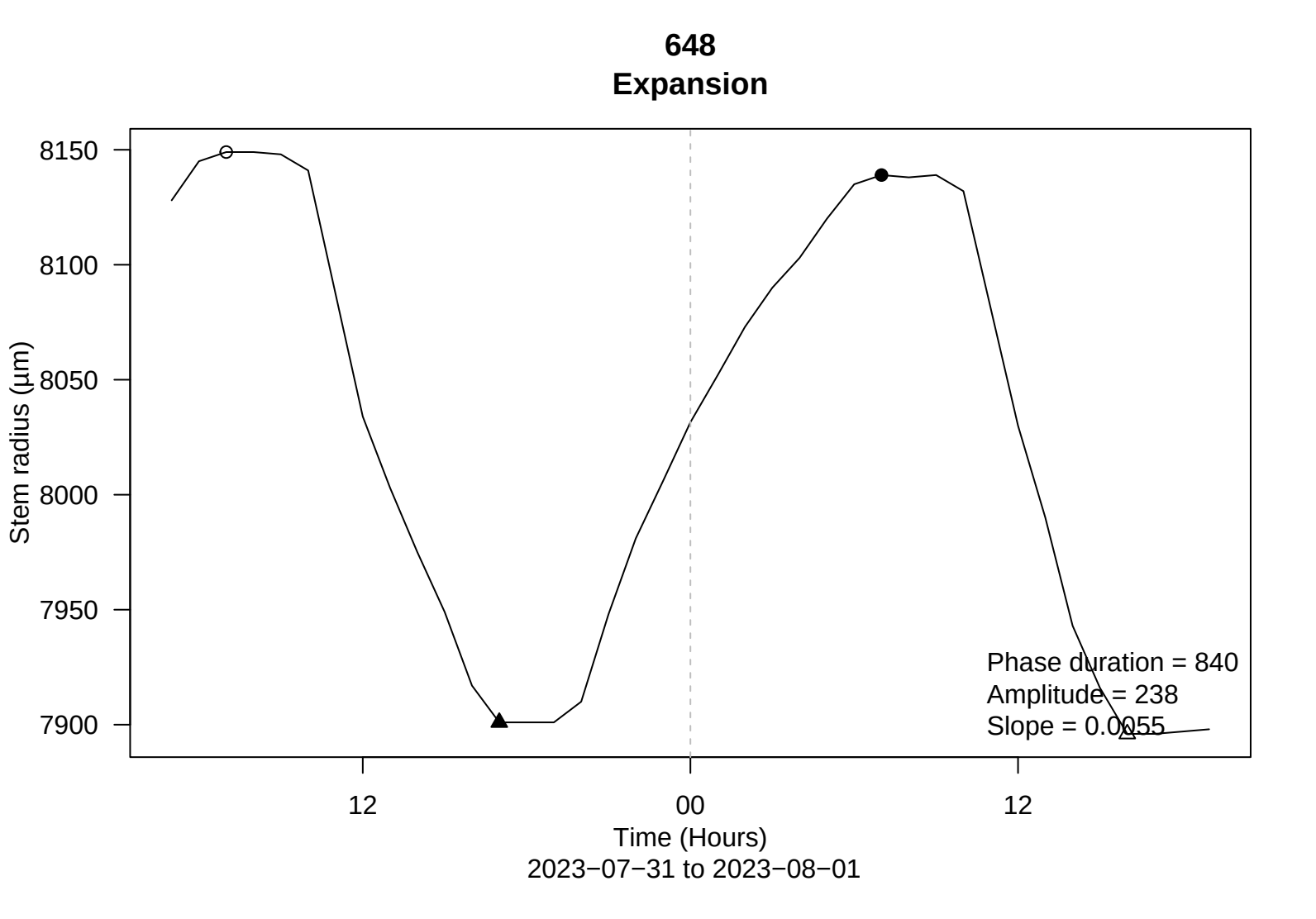

648
Shrinkage
8100
8050
8000
7950
7900
7850
7800
Stem radius (µm)
Phase duration = 540
Amplitude = −102
Slope = −0.0033
00
12
00
Time (Hours)
2023−07−29 to 2023−07−29

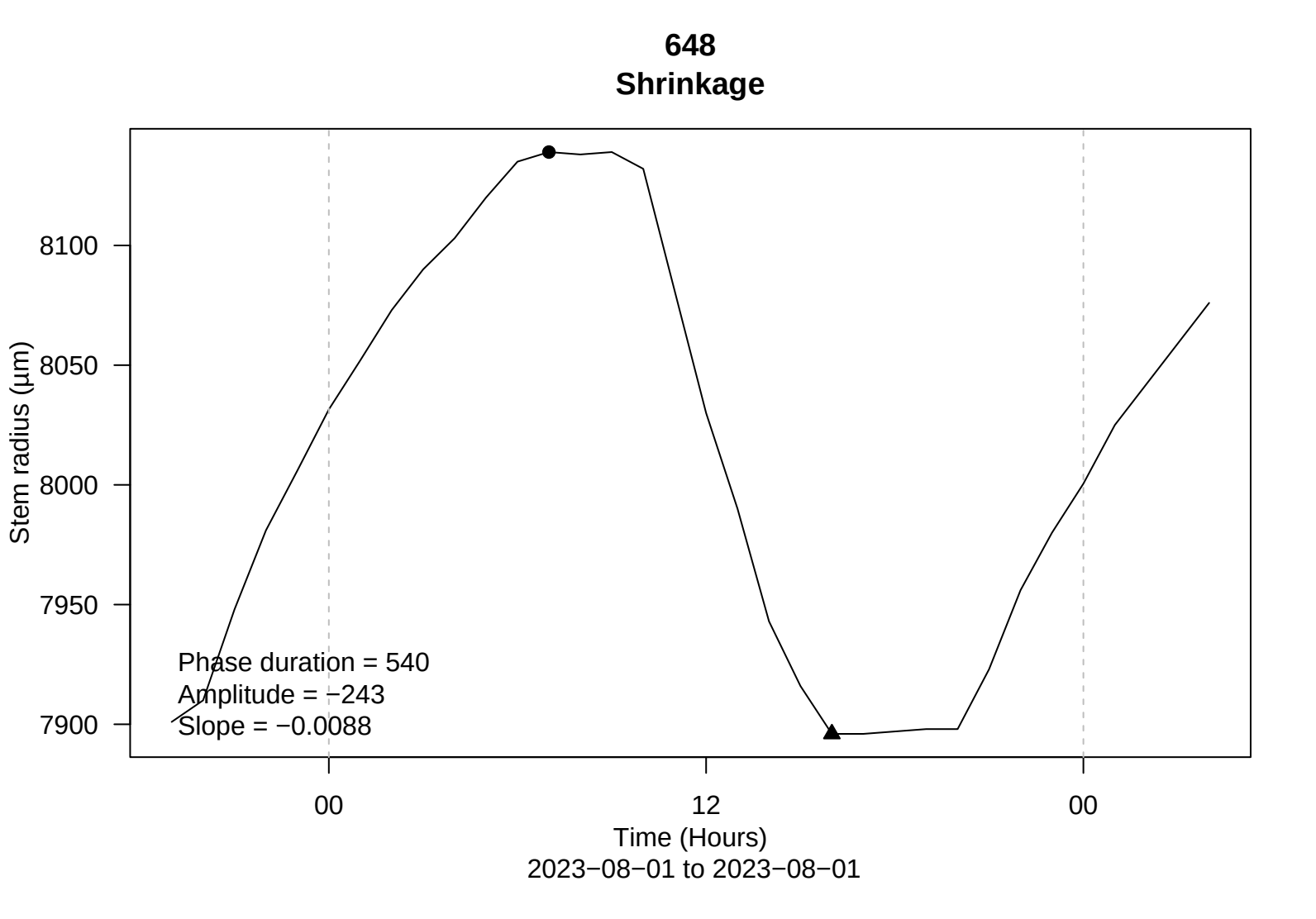

648
Expansion
8150
8100
8050
8000
7950
7900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−29 to 2023−07−30
Phase duration = 1020
Amplitude = 263
Slope = 0.0053

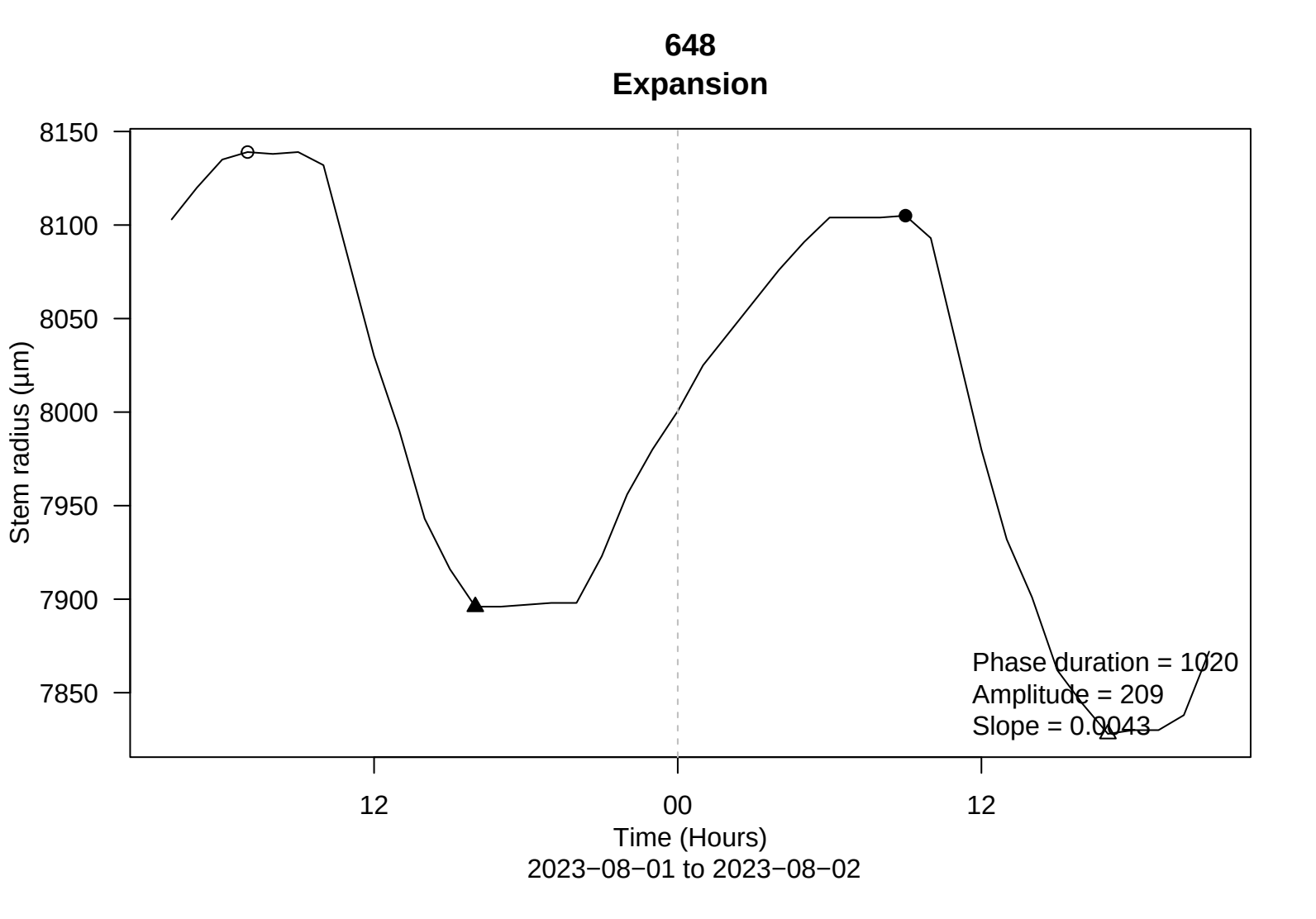

648
Shrinkage
8150
8100
8050
8000
7950
Stem radius (µm)
Phase duration = 540
Amplitude = −218
Slope = −0.0074
00
12
00
Time (Hours)
2023−07−30 to 2023−07−30

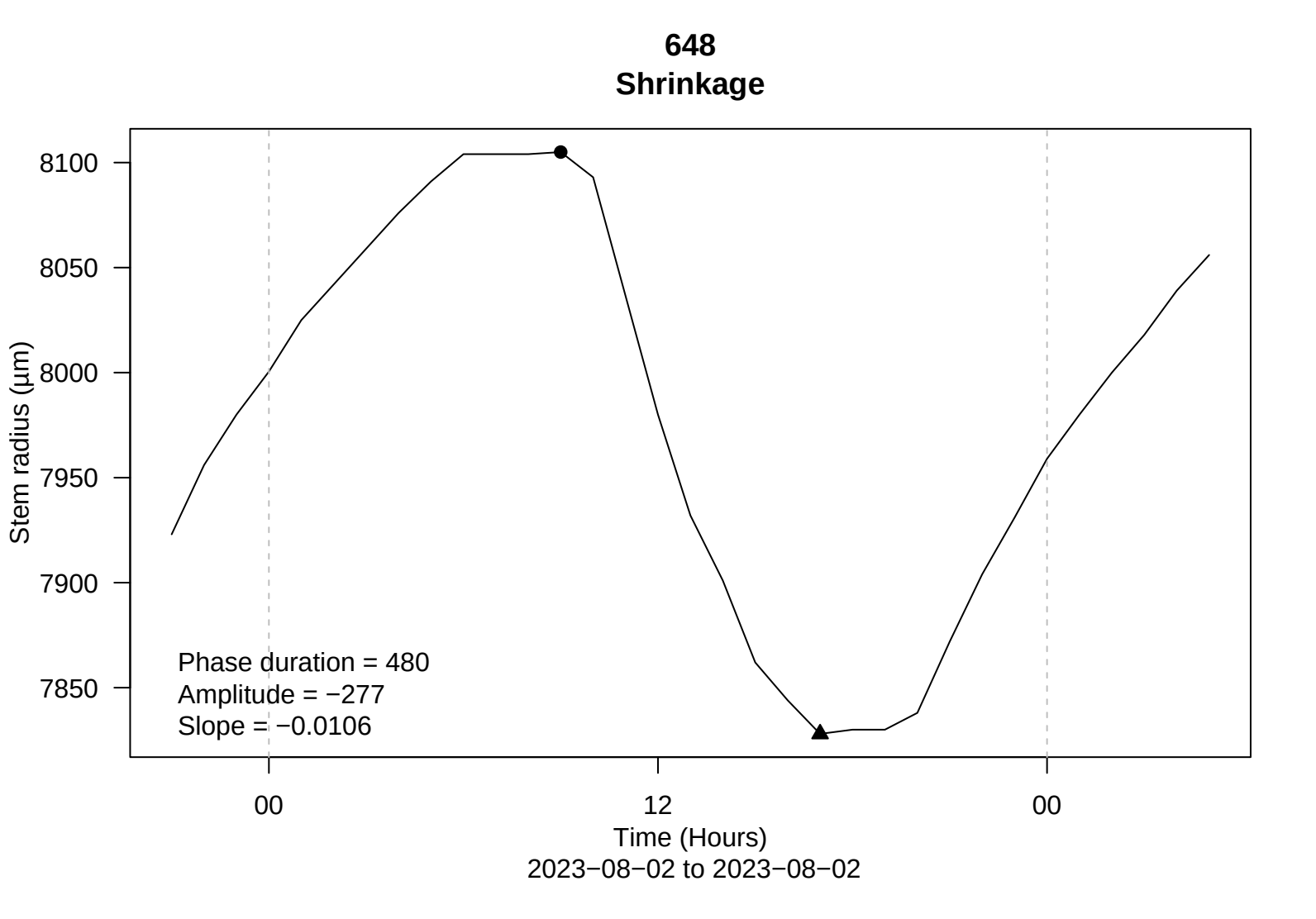

648
Expansion
8150
8100
8050
8000
7950
7900
Stem radius (µm)
12
00
12
Time (Hours)
2023−07−30 to 2023−07−31
Phase duration = 780
Amplitude = 203
Slope = 0.005

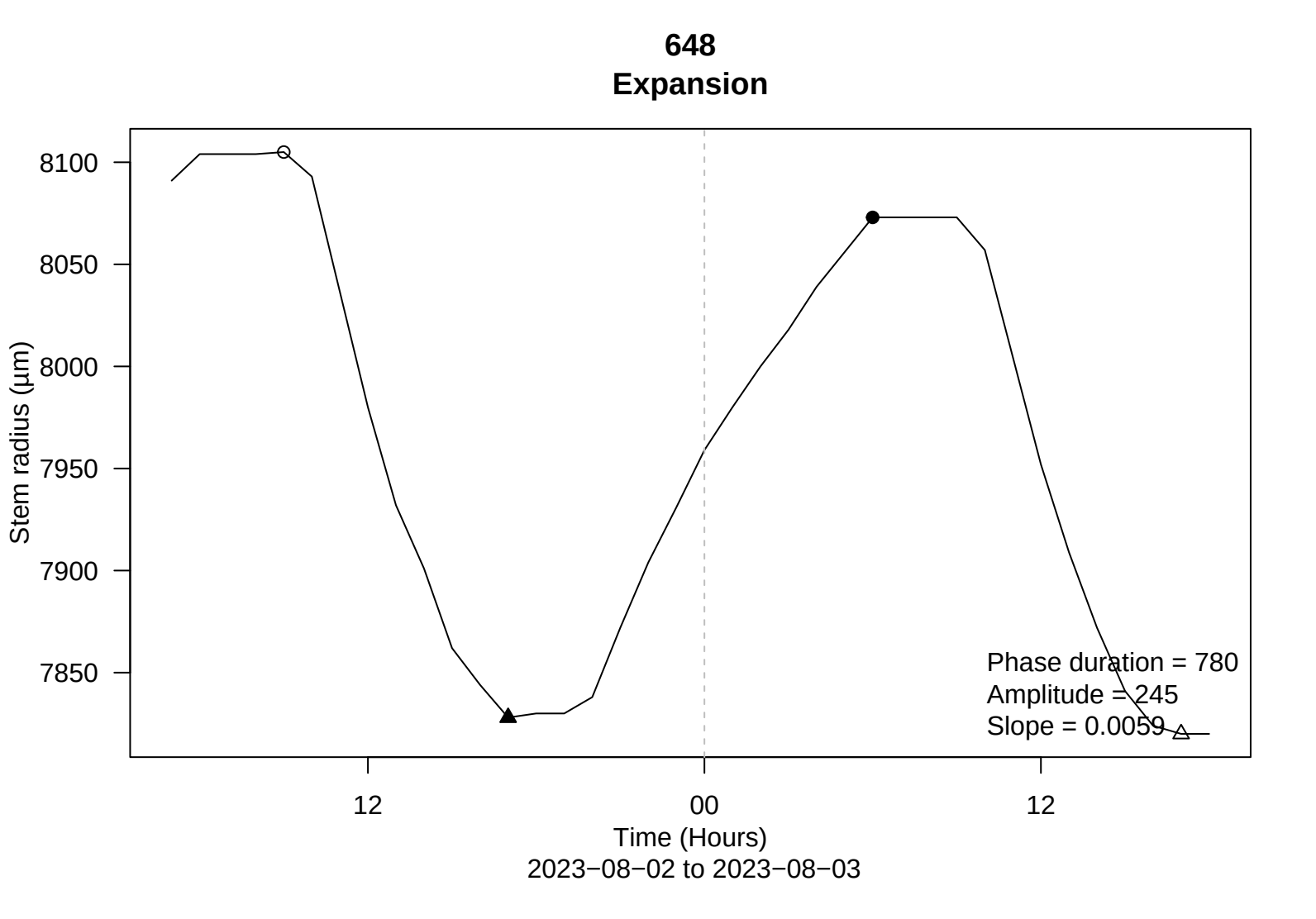

648
Shrinkage
8150
8100
8050
8000
7950
7900
Stem radius (µm)
Phase duration = 600
Amplitude = −248
Slope = −0.008
00
12
00
Time (Hours)
2023−07−31 to 2023−07−31

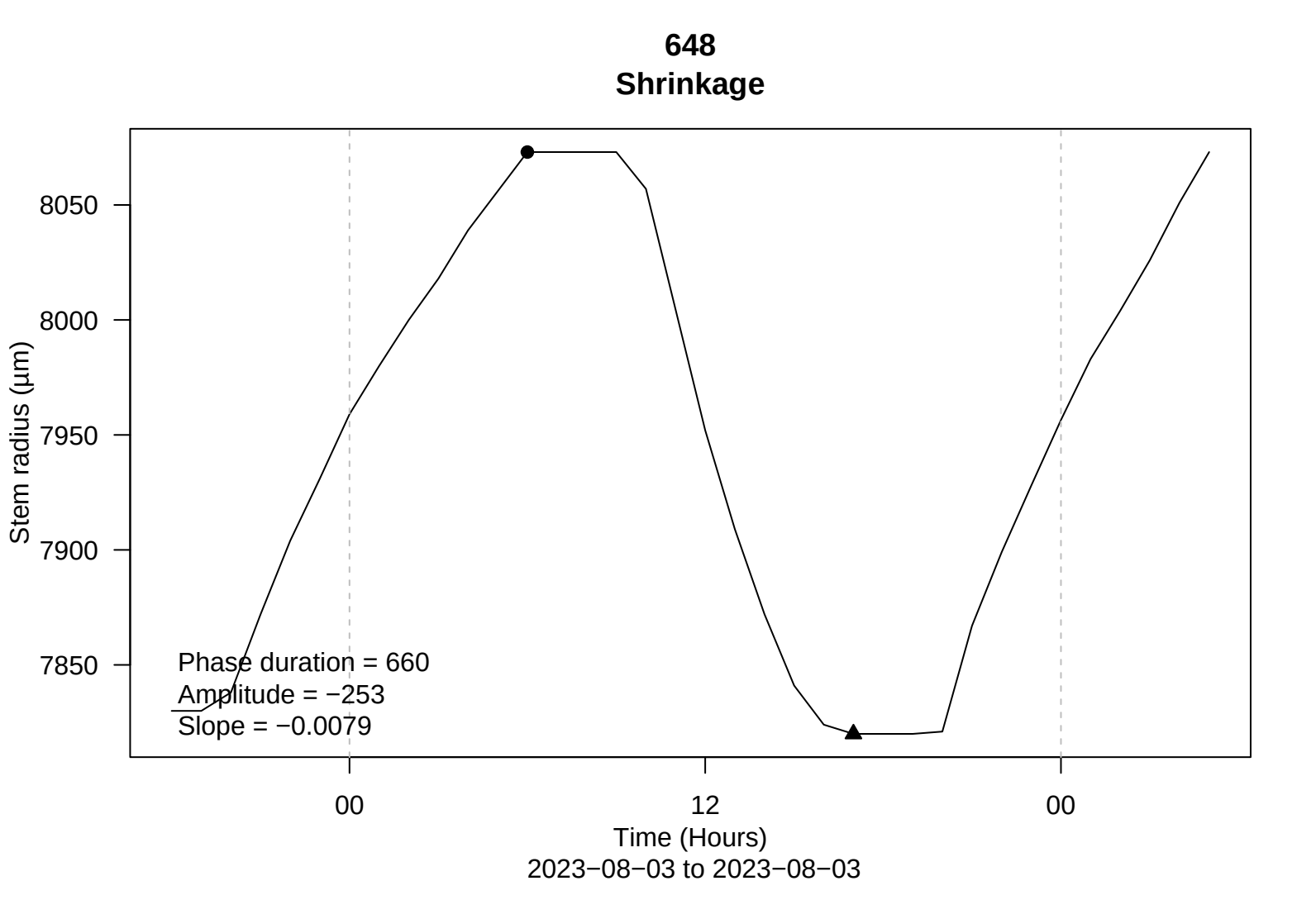

648
Expansion
8150
8100
8050
8000
7950
7900
Stem radius (µm)
Phase duration = 840
Amplitude = 238
Slope = 0.0055
12
00
12
Time (Hours)
2023−07−31 to 2023−08−01

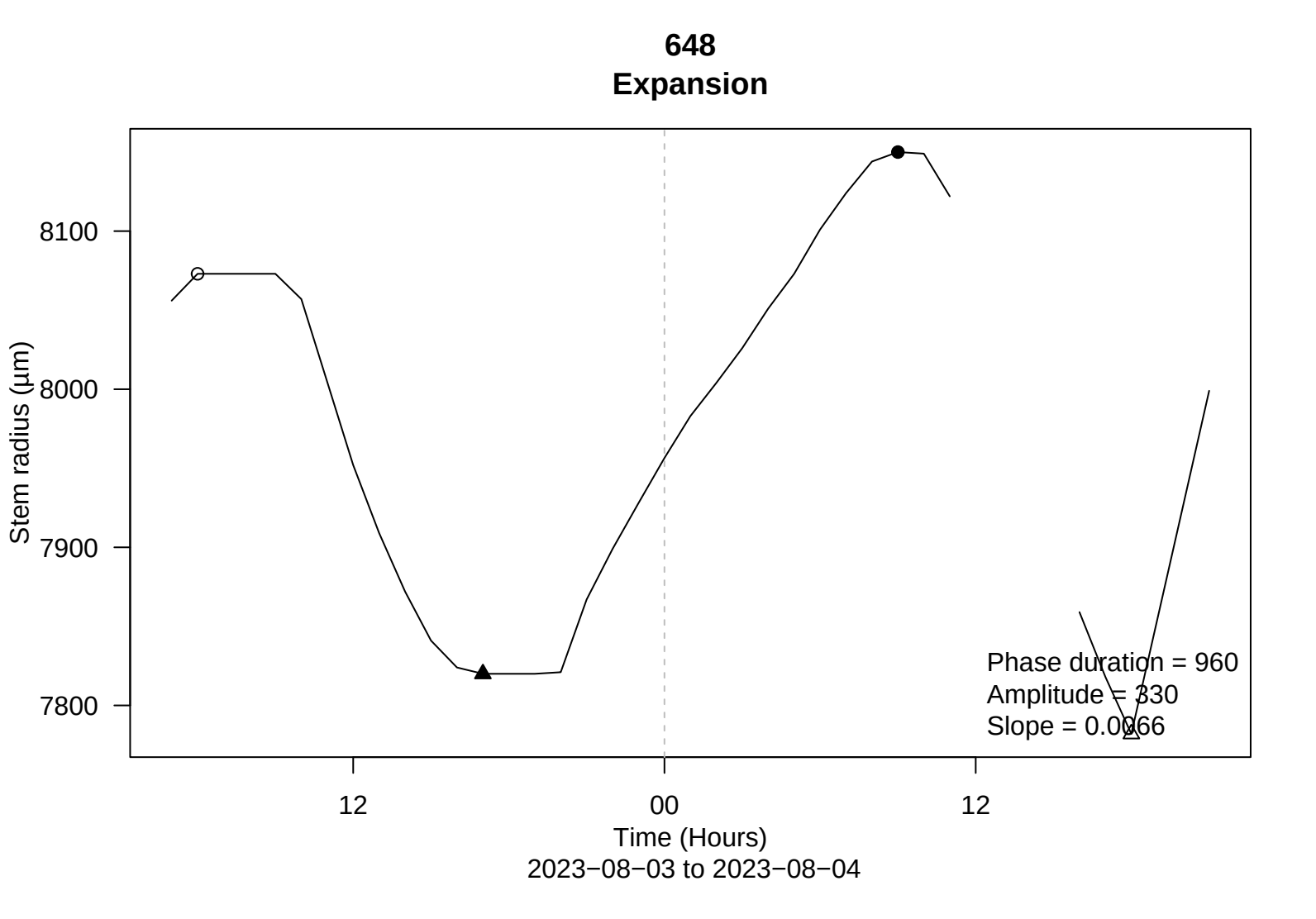

648
Shrinkage
8100
8050
8000
7950
7900
Stem radius (µm)
Phase duration = 540
Amplitude = −243
Slope = −0.0088
00
12
00
Time (Hours)
2023−08−01 to 2023−08−01

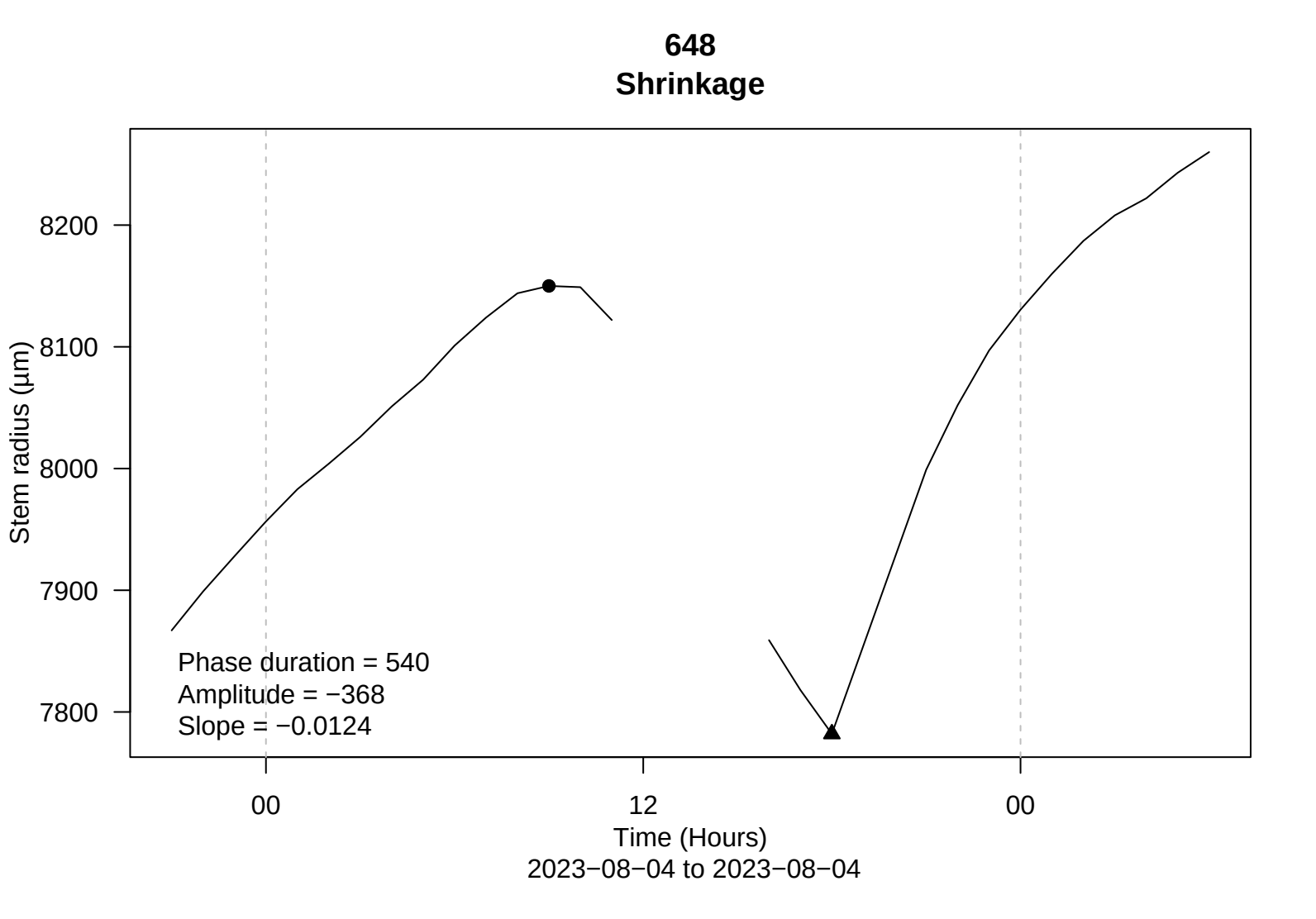

648
Expansion
8150
8100
8050
8000
7950
7900
7850
Stem radius (µm)
Phase duration = 1020
Amplitude = 209
Slope = 0.0043
12
00
12
Time (Hours)
2023−08−01 to 2023−08−02

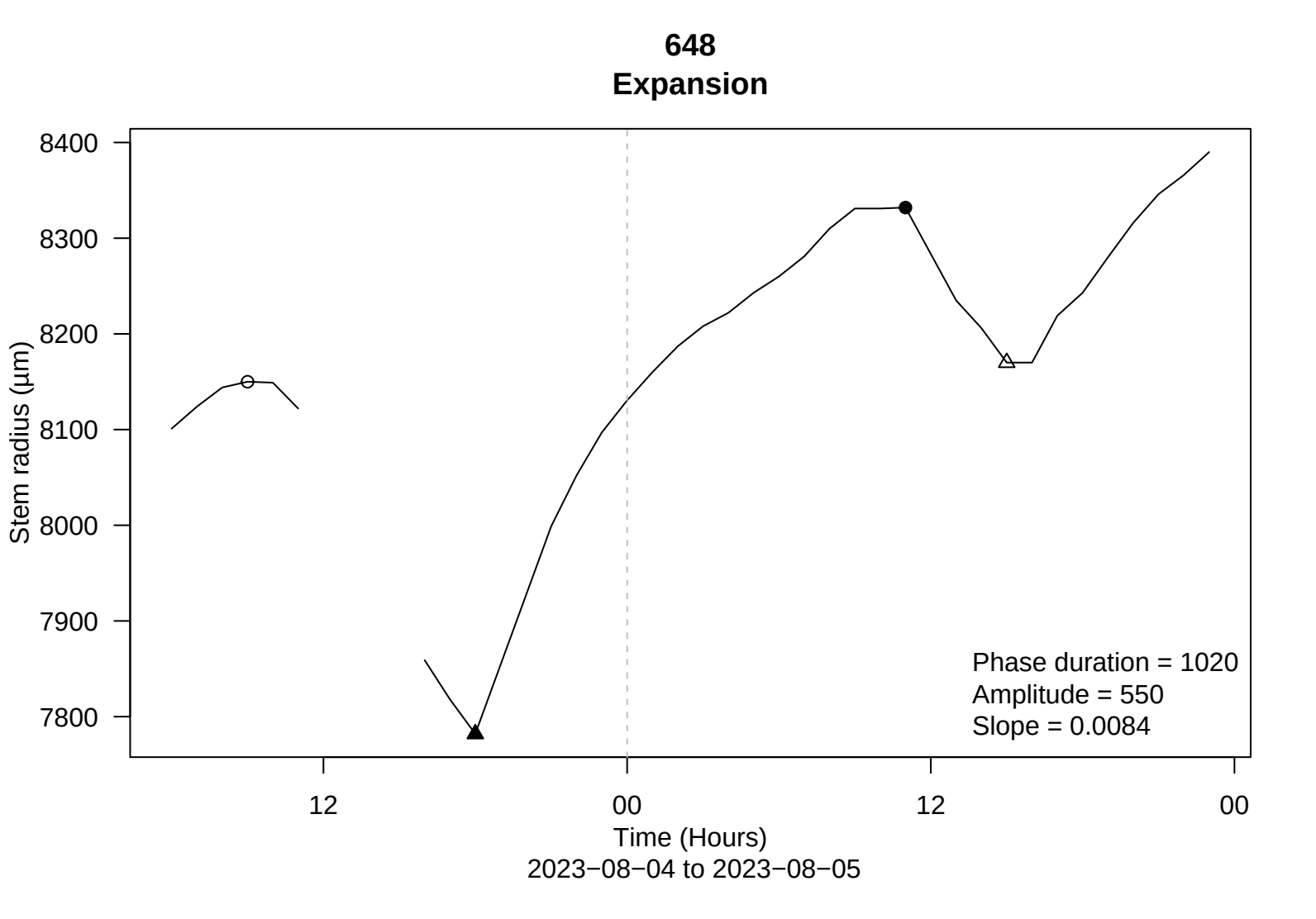

648
Shrinkage
8100
8050
8000
7950
7900
7850
Stem radius (µm)
Phase duration = 480
Amplitude = −277
Slope = −0.0106
00
12
00
Time (Hours)
2023−08−02 to 2023−08−02

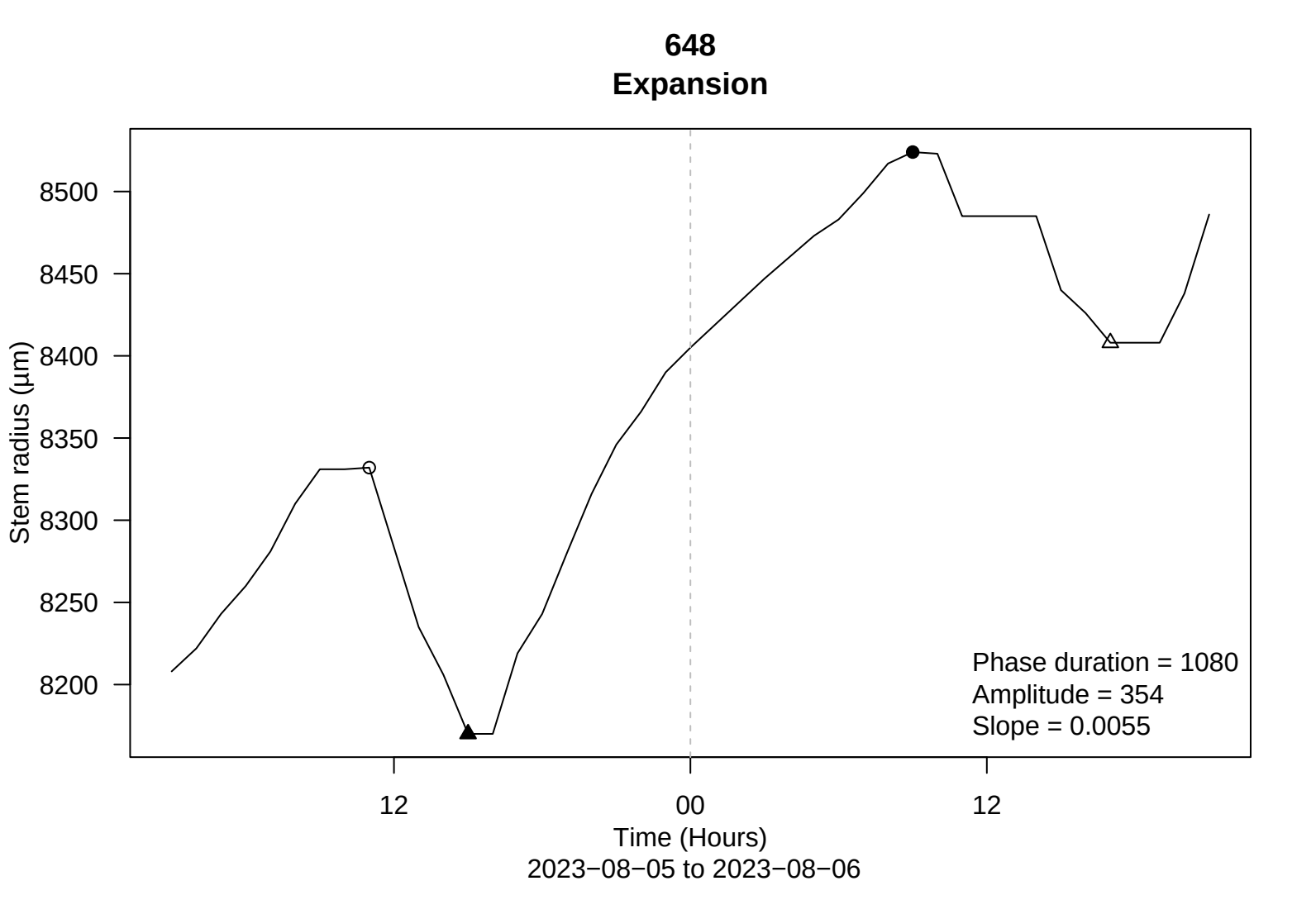

648
Expansion
8100
8050
8000
7950
7900
7850
Stem radius (µm)
Phase duration = 780
Amplitude = 245
Slope = 0.0059
12
00
12
Time (Hours)
2023−08−02 to 2023−08−03

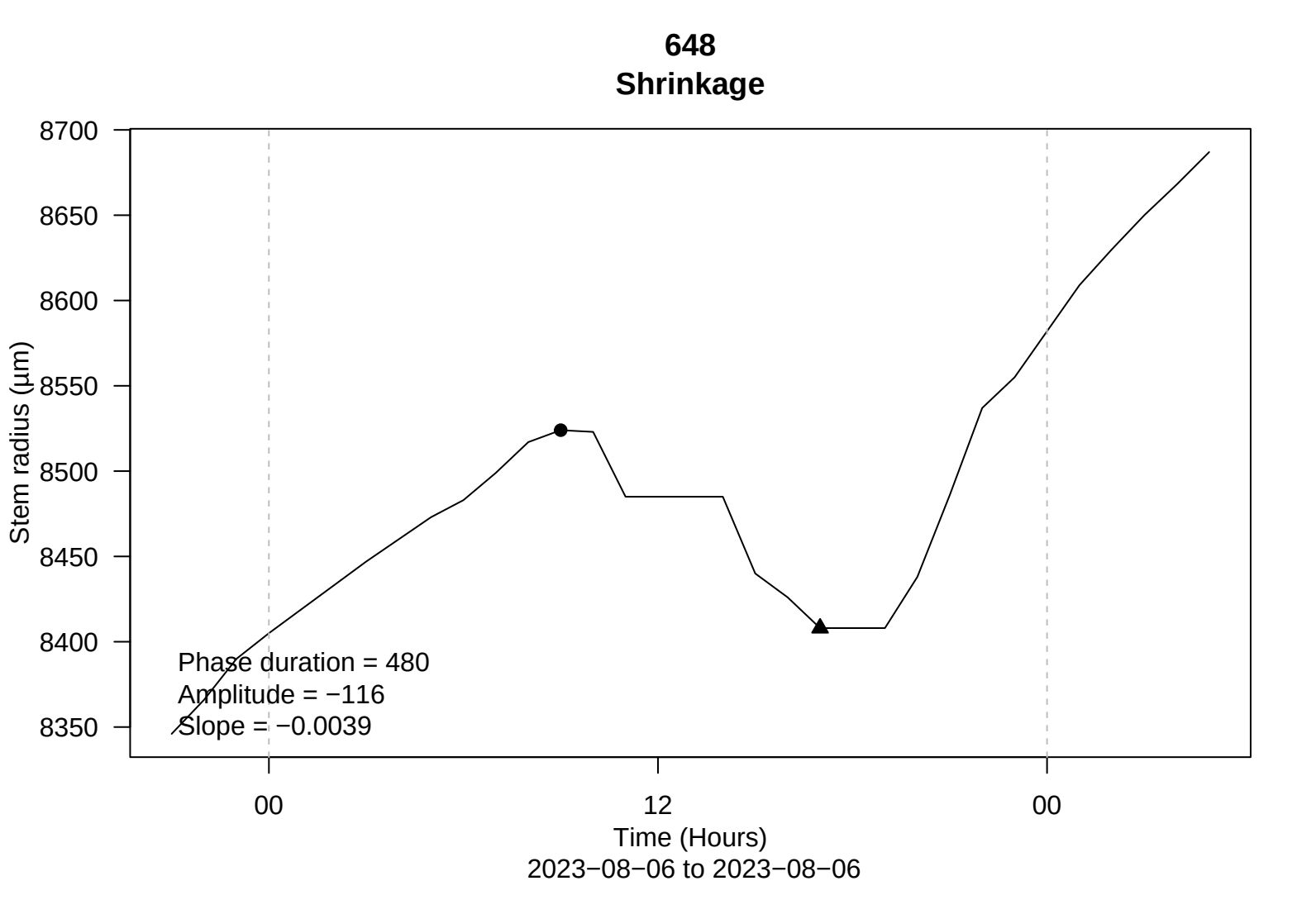

648
Shrinkage
8050
8000
7950
7900
7850
Stem radius (µm)
Phase duration = 660
Amplitude = −253
Slope = −0.0079
00
12
00
Time (Hours)
2023−08−03 to 2023−08−03

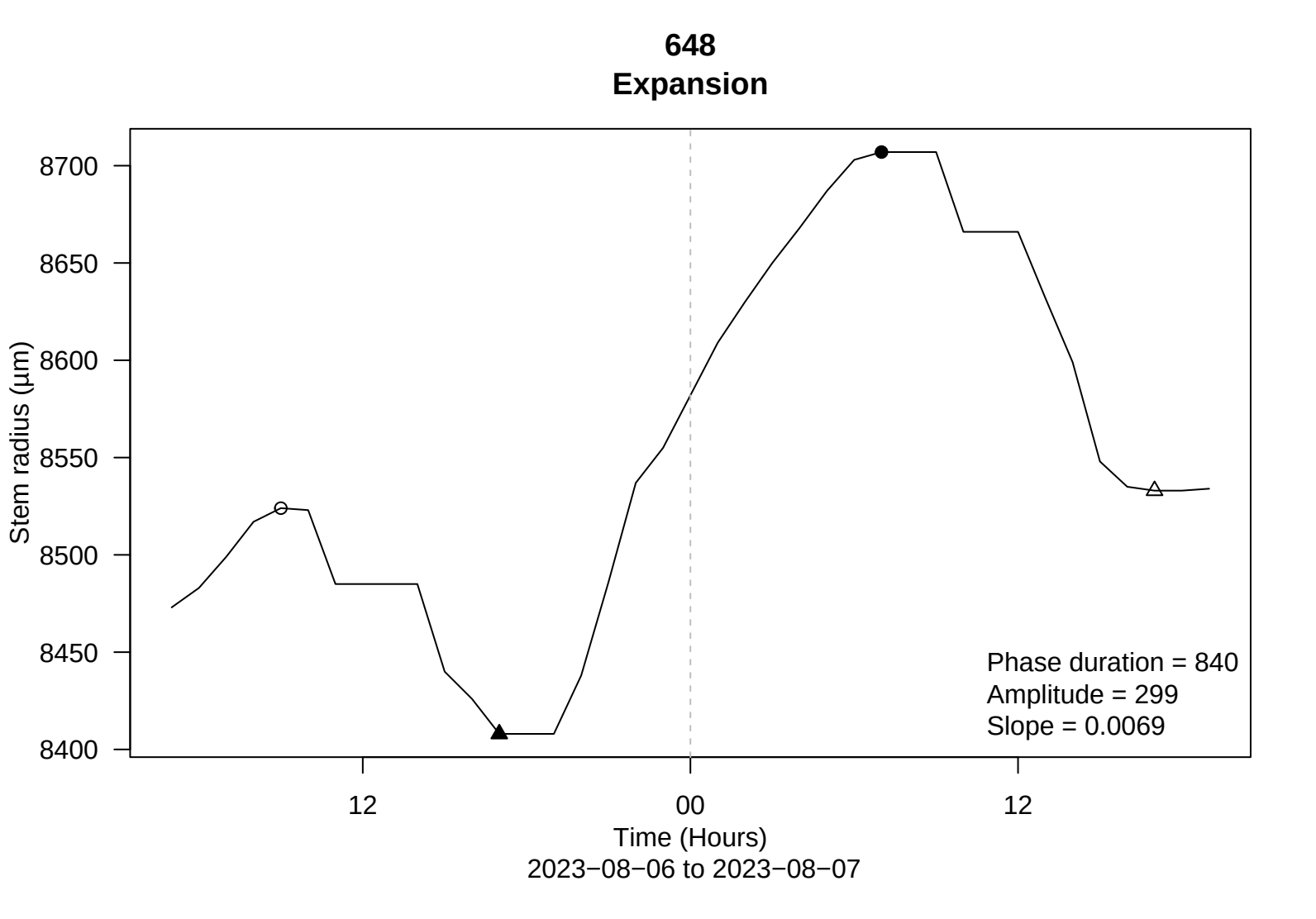

648
Expansion
8100
8000
7900
7800
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−03 to 2023−08−04
Phase duration = 960
Amplitude = 330
Slope = 0.0966

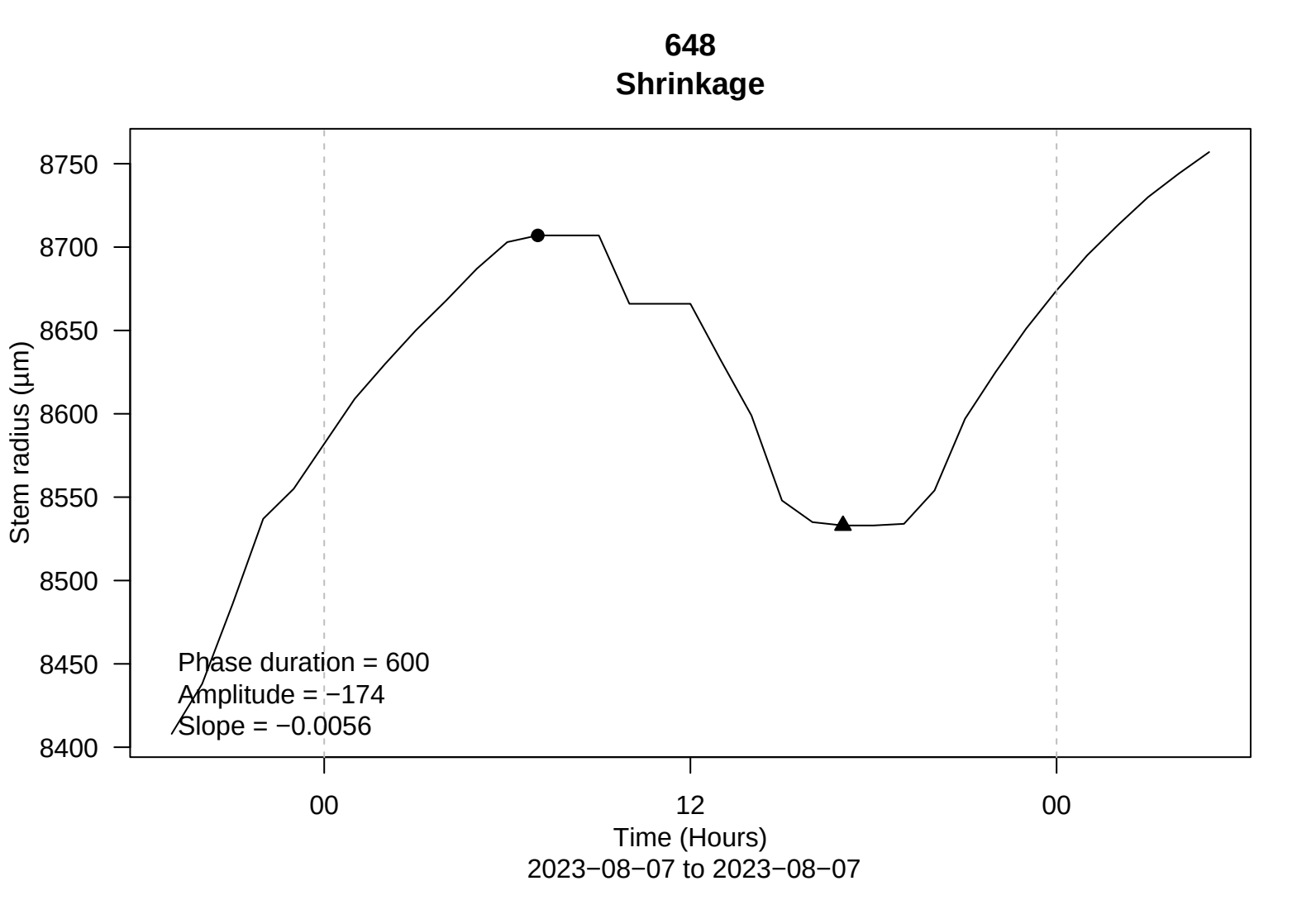

648
Shrinkage
8200
8100
8000
7900
7800
Stem radius (µm)
Phase duration = 540
Amplitude = −368
Slope = −0.0124
00
12
00
Time (Hours)
2023−08−04 to 2023−08−04

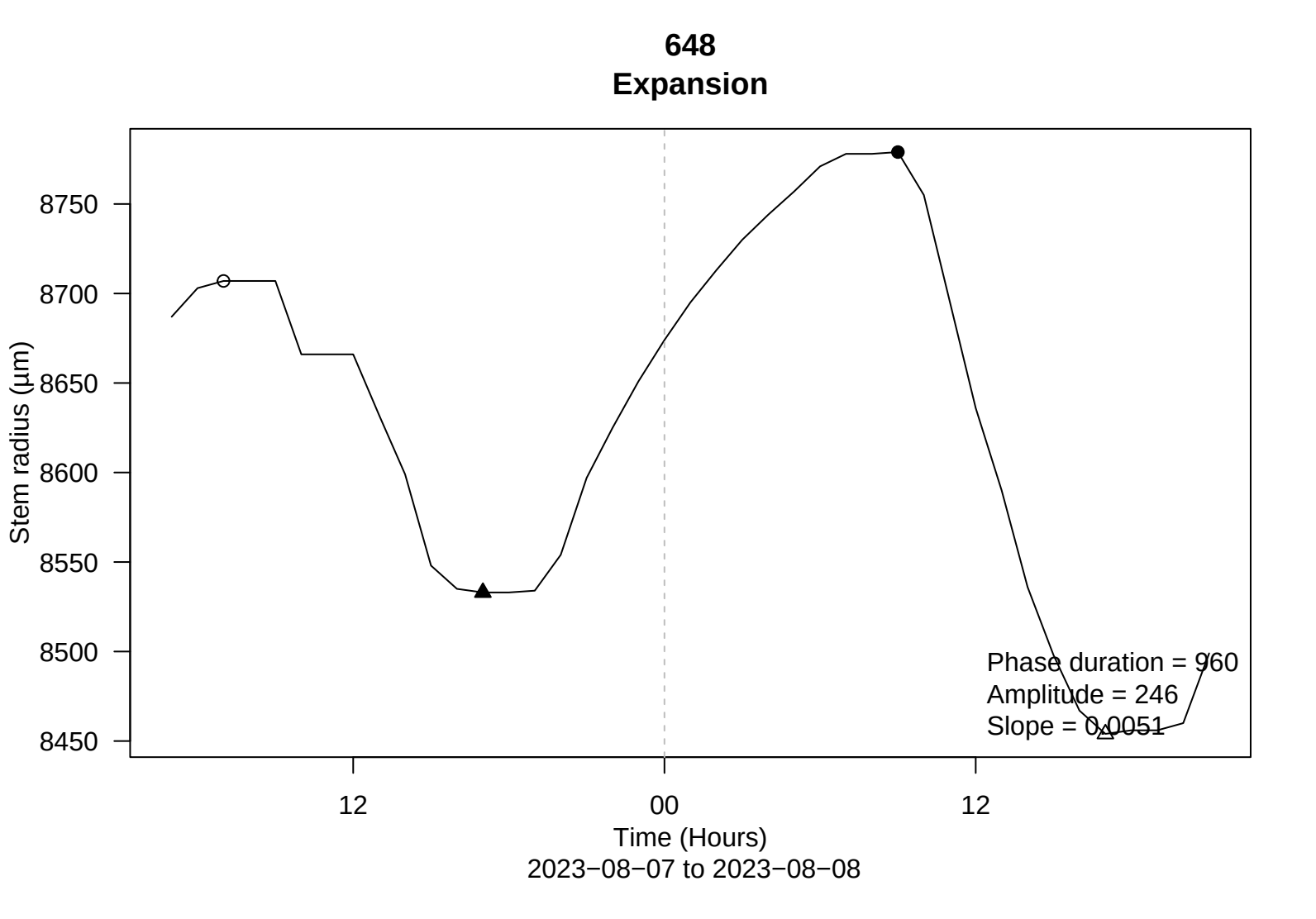

648
Expansion
8400
8300
8200
8100
8000
7900
7800
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−08−04 to 2023−08−05
Phase duration = 1020
Amplitude = 550
Slope = 0.0084

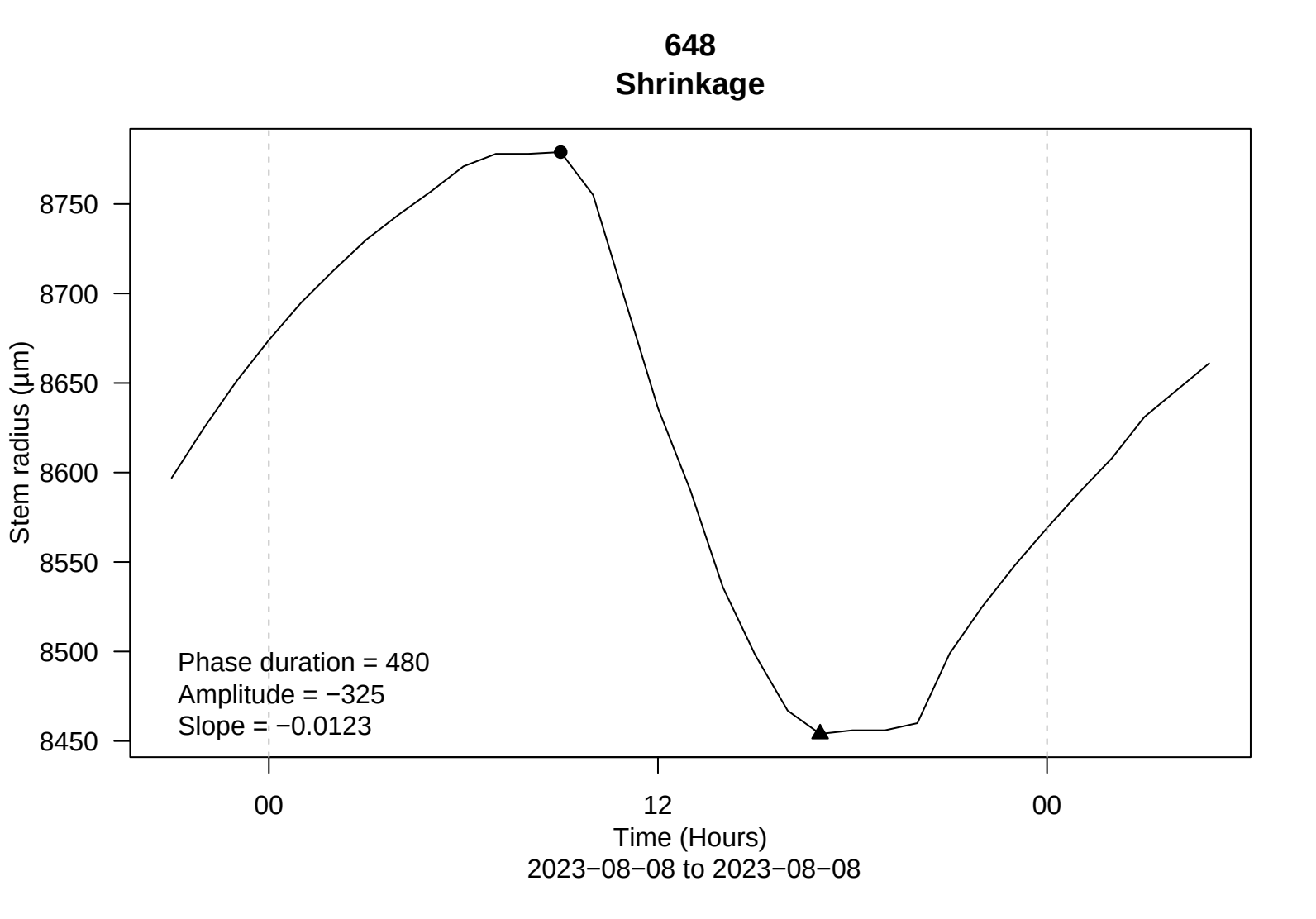

648
Expansion
8500
8450
8400
8350
8300
8250
8200
Stem radius (µm)
Phase duration = 1080
Amplitude = 354
Slope = 0.0055
12
00
12
Time (Hours)
2023−08−05 to 2023−08−06

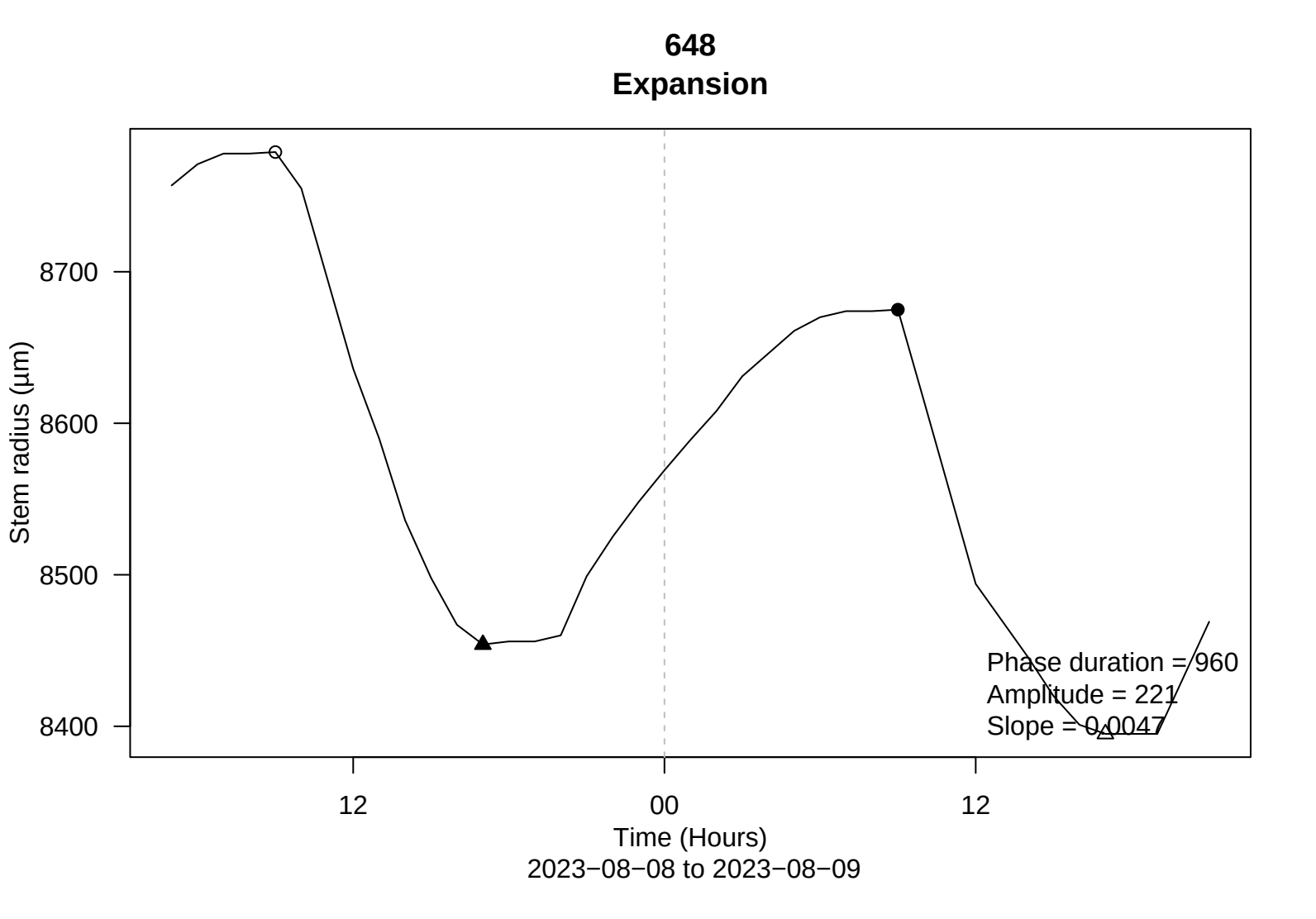

648
Shrinkage
8700
8650
8600
8550
8500
8450
8400
8350
Stem radius (µm)
Phase duration = 480
Amplitude = −116
Slope = −0.0039
00
12
00
Time (Hours)
2023−08−06 to 2023−08−06

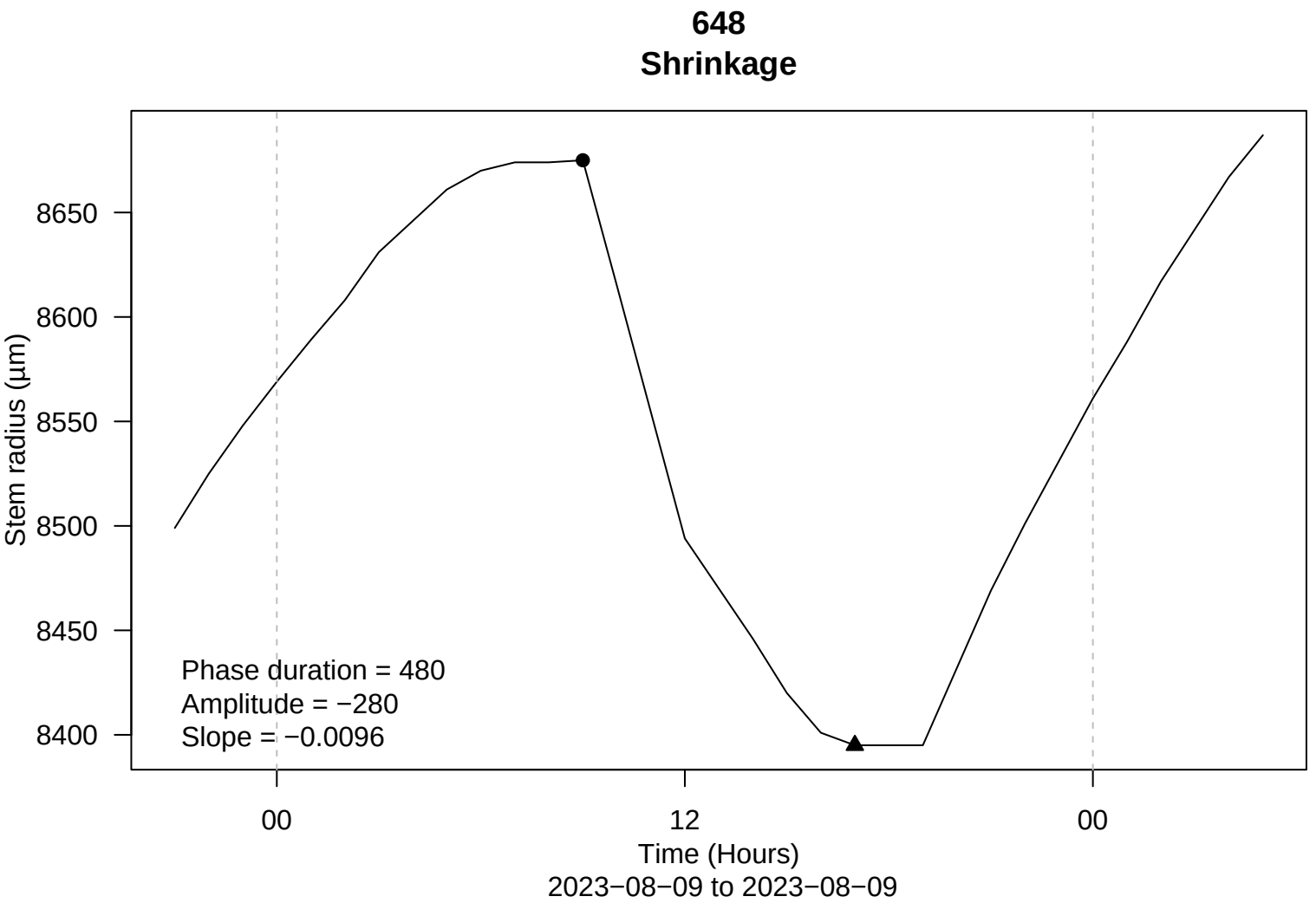

648
Expansion
8700
8650
8600
8550
8500
8450
8400
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−06 to 2023−08−07
Phase duration = 840
Amplitude = 299
Slope = 0.0069

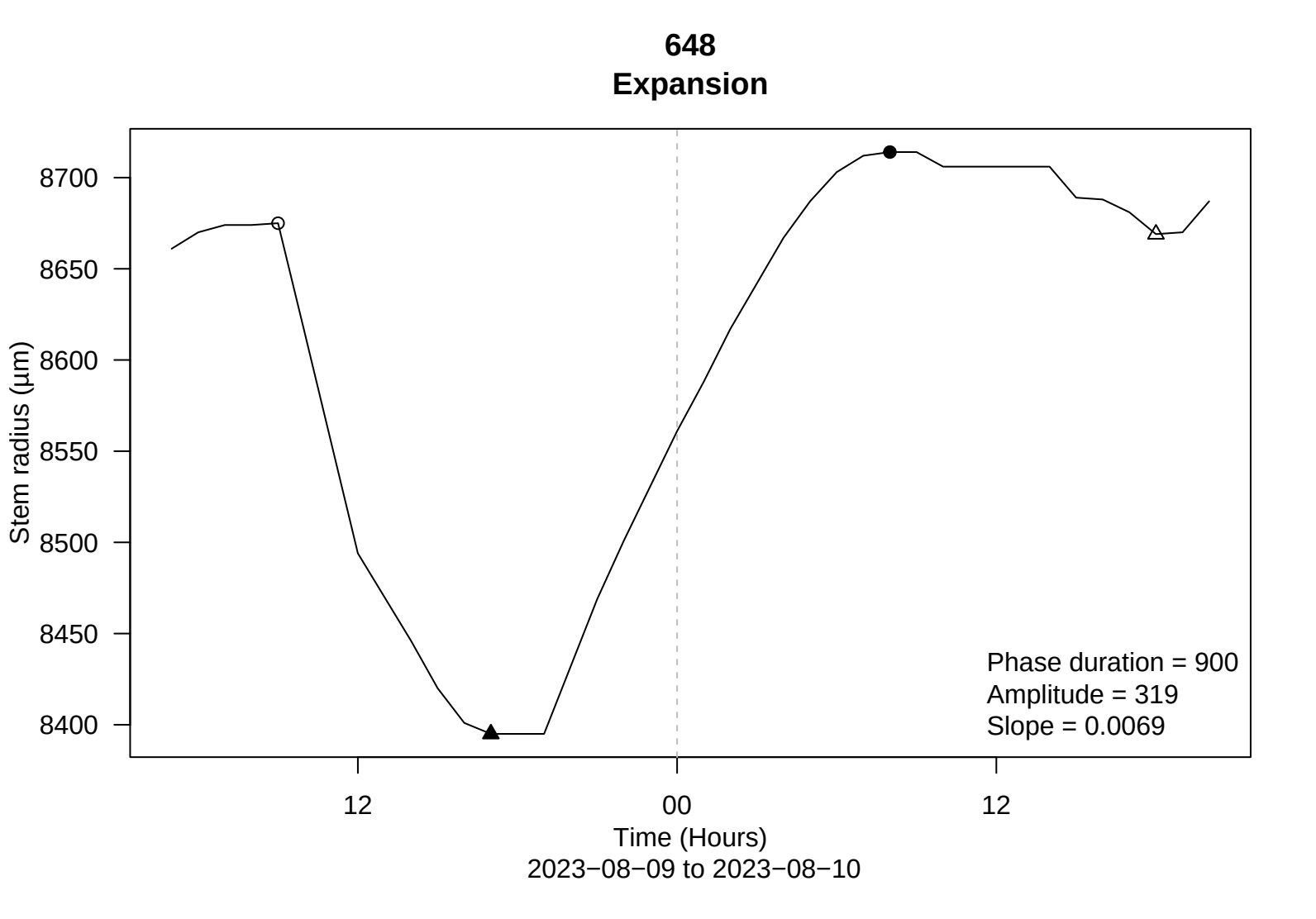

648
Shrinkage
8750
8700
8650
8600
8550
8500
8450
8400
Stem radius (µm)
Phase duration = 600
Amplitude = −174
Slope = −0.0056
00
12
00
Time (Hours)
2023−08−07 to 2023−08−07

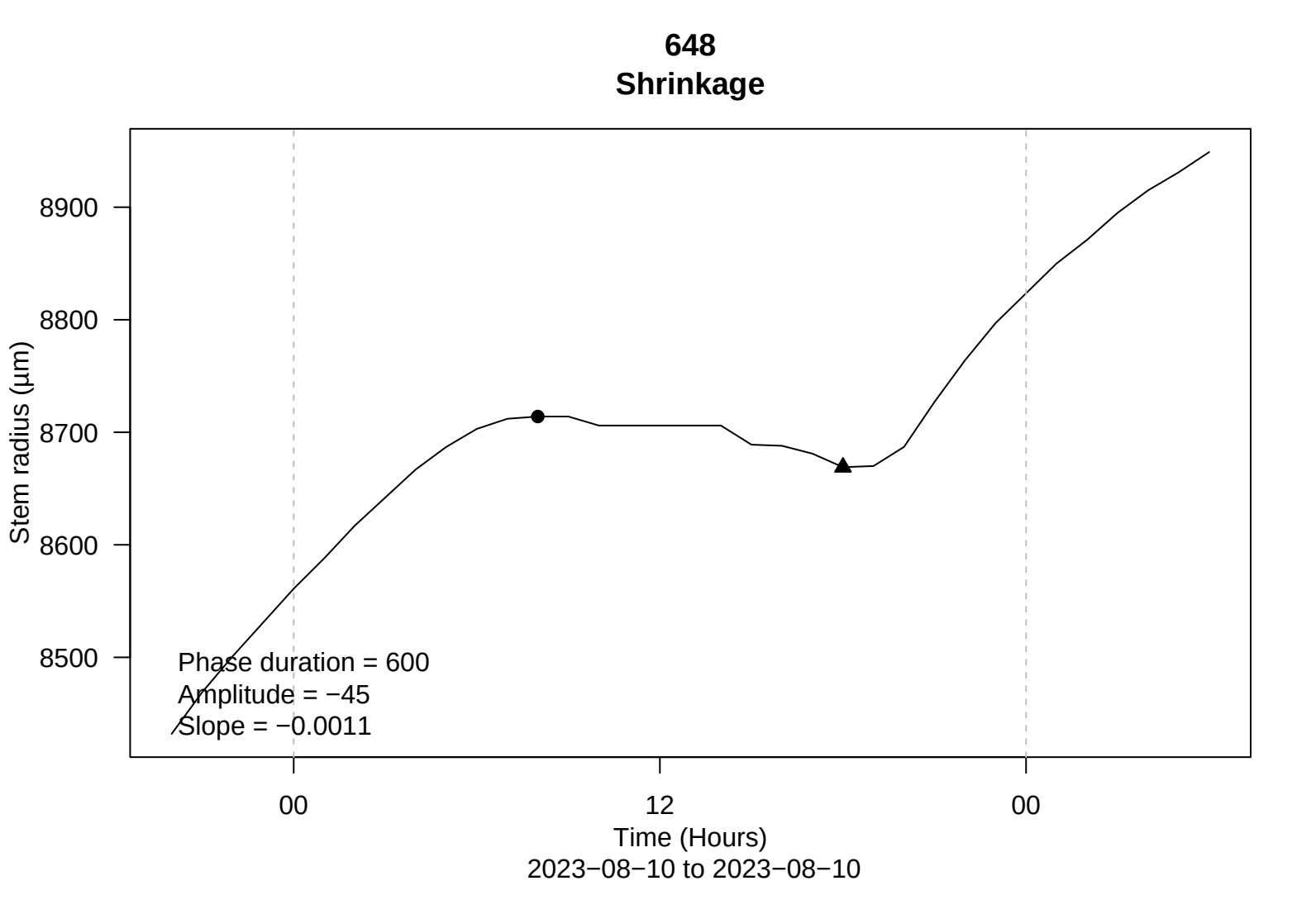

648
Expansion
8750
8700
8650
8600
8550
8500
8450
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−07 to 2023−08−08
Phase duration = 960
Amplitude = 246
Slope = 0.0051

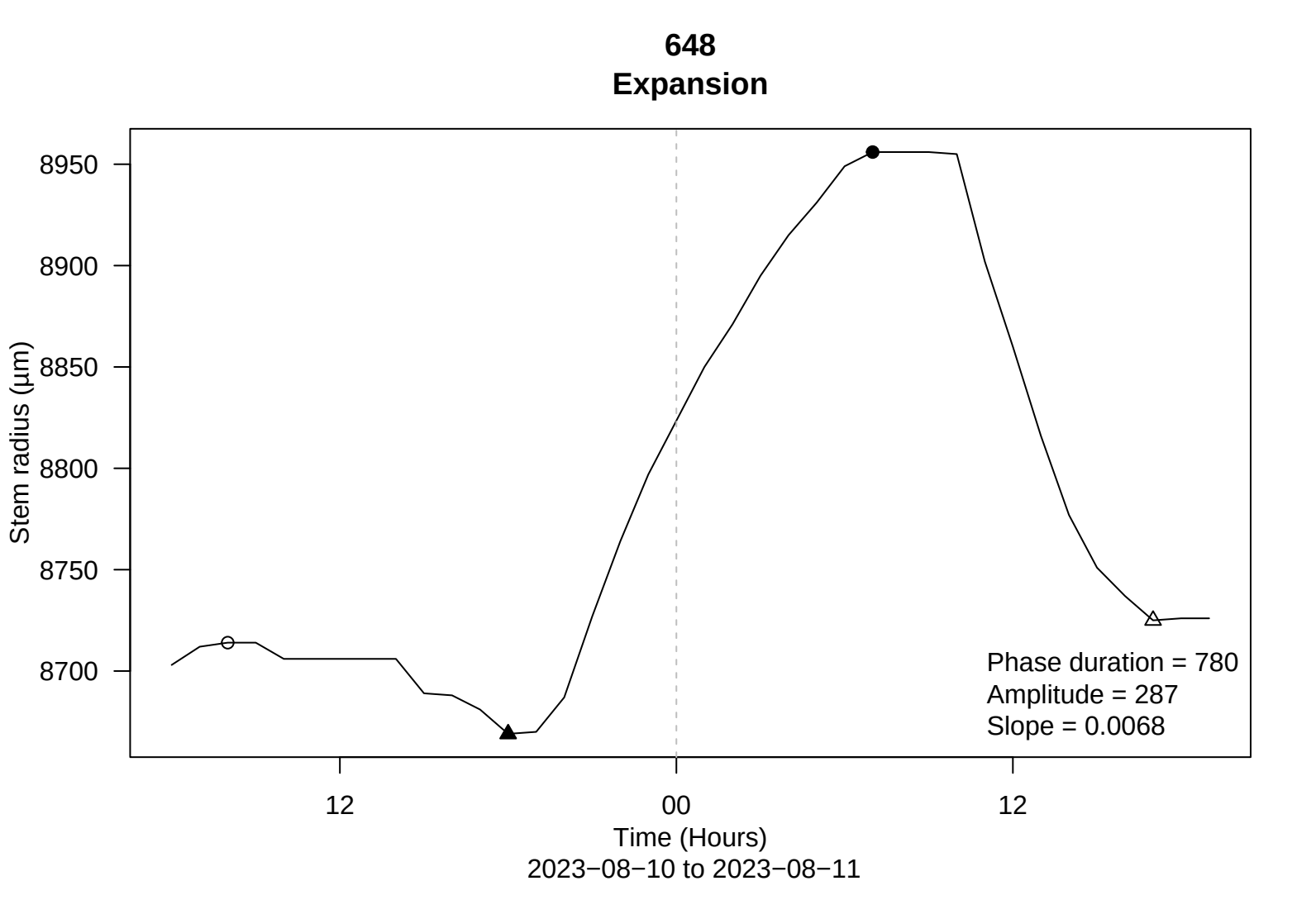

648
Shrinkage
8750
8700
8650
8600
8550
8500
8450
Stem radius (µm)
Phase duration = 480
Amplitude = −325
Slope = −0.0123
00
12
00
Time (Hours)
2023−08−08 to 2023−08−08

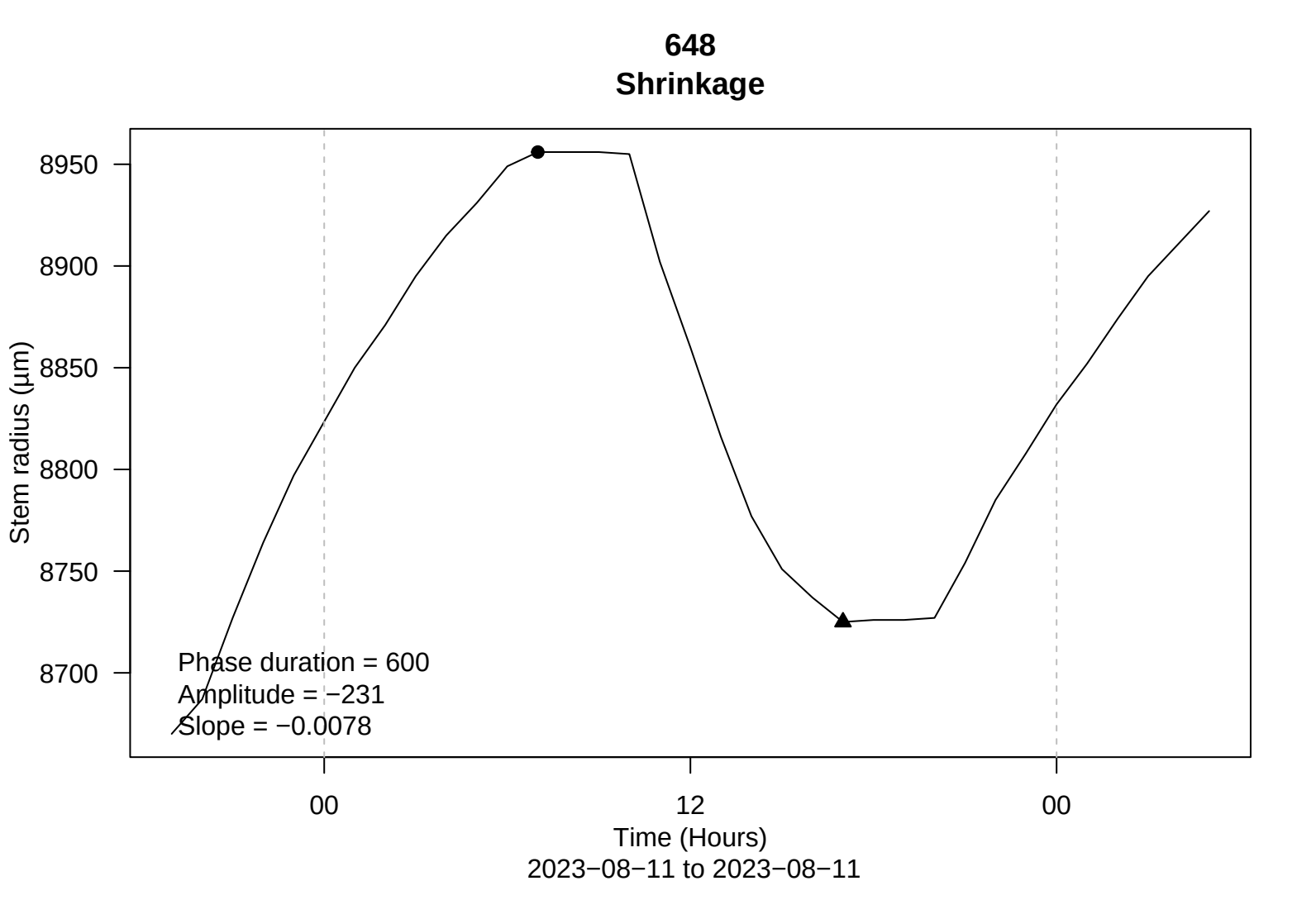

648
Expansion
8700
8600
8500
8400
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−08 to 2023−08−09
Phase duration = 960
Amplitude = 221
Slope = 0.0047

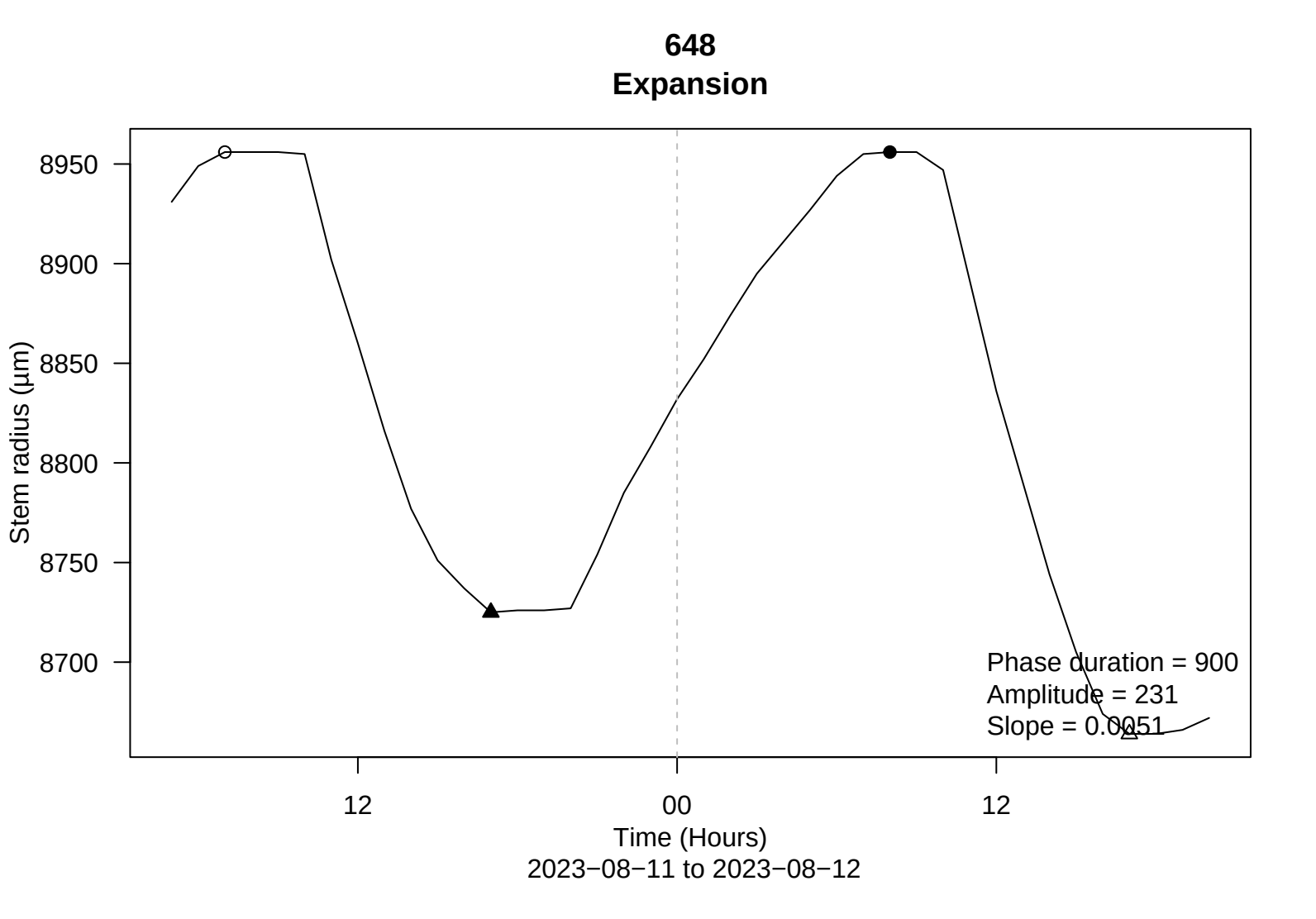

648
Shrinkage
Stem radius (µm)
8650
8600
8550
8500
8450
8400
Phase duration = 480
Amplitude = −280
Slope = −0.0096
00
12
00
Time (Hours)
2023−08−09 to 2023−08−09

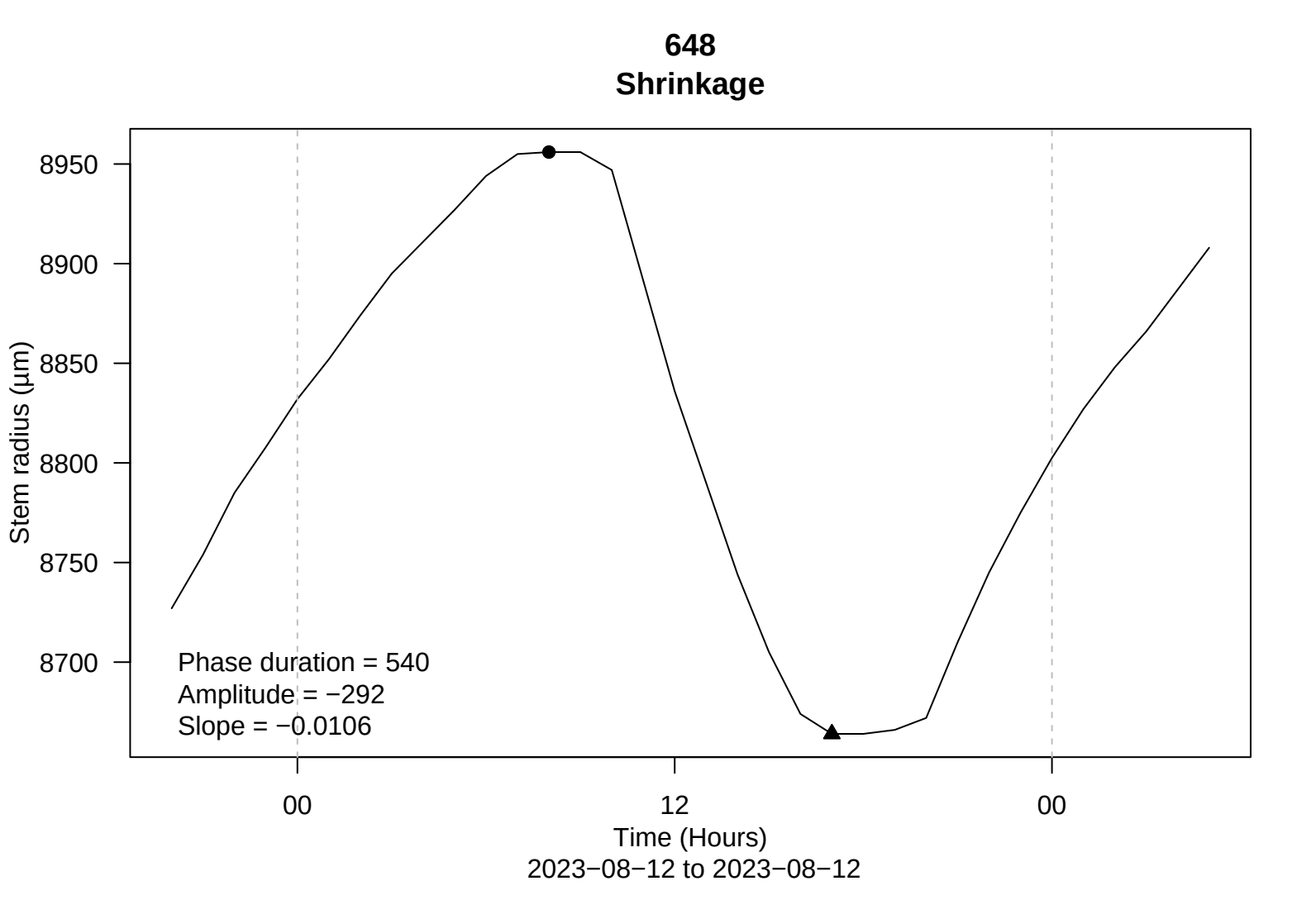

648
Expansion
8700
8650
8600
8550
8500
8450
8400
Stem radius (µm)
Phase duration = 900
Amplitude = 319
Slope = 0.0069
12
00
12
Time (Hours)
2023−08−09 to 2023−08−10

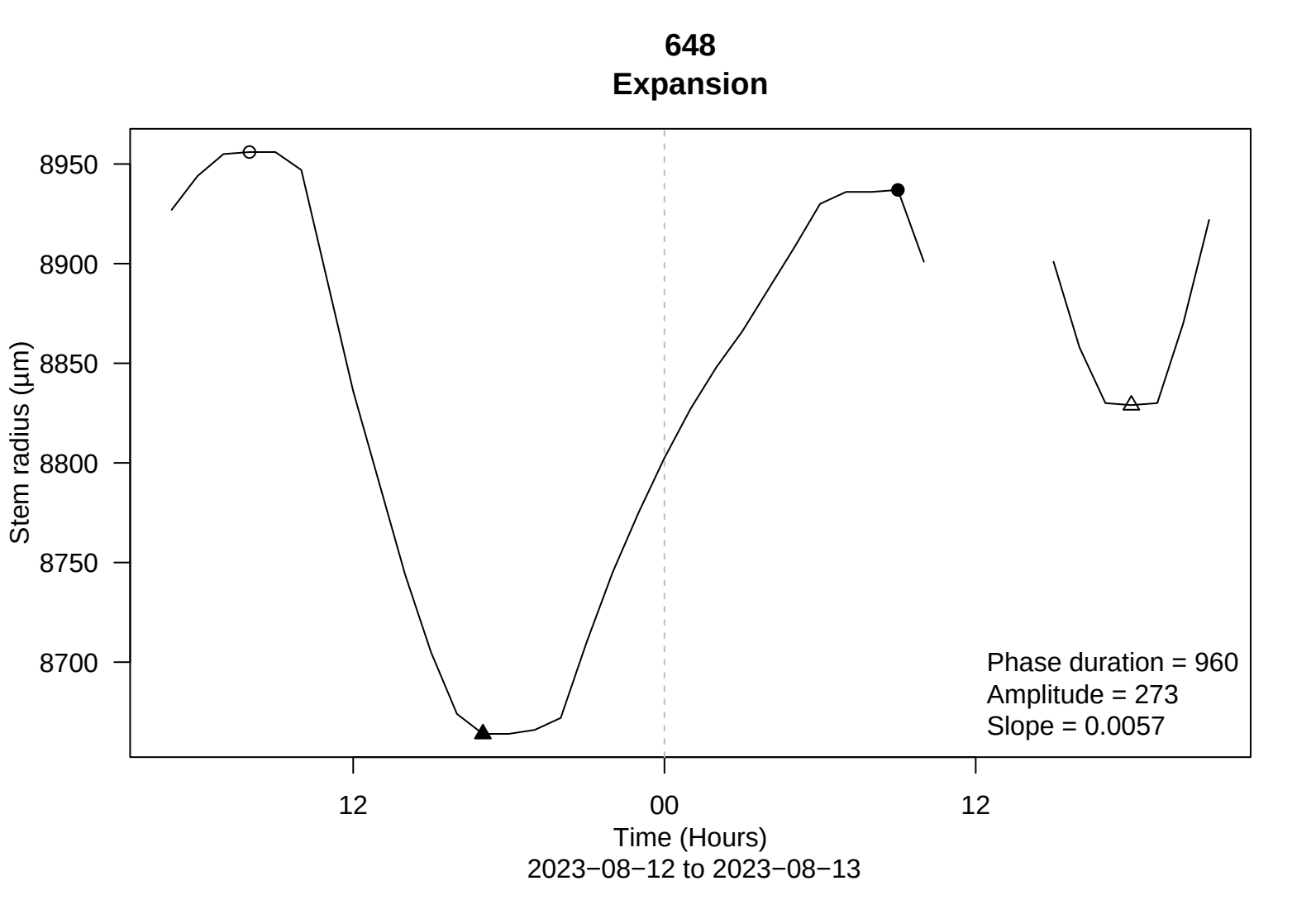

648
Shrinkage
8900
8800
8700
8600
8500
Stem radius (µm)
Phase duration = 600
Amplitude = −45
Slope = −0.0011
00
12
00
Time (Hours)
2023−08−10 to 2023−08−10

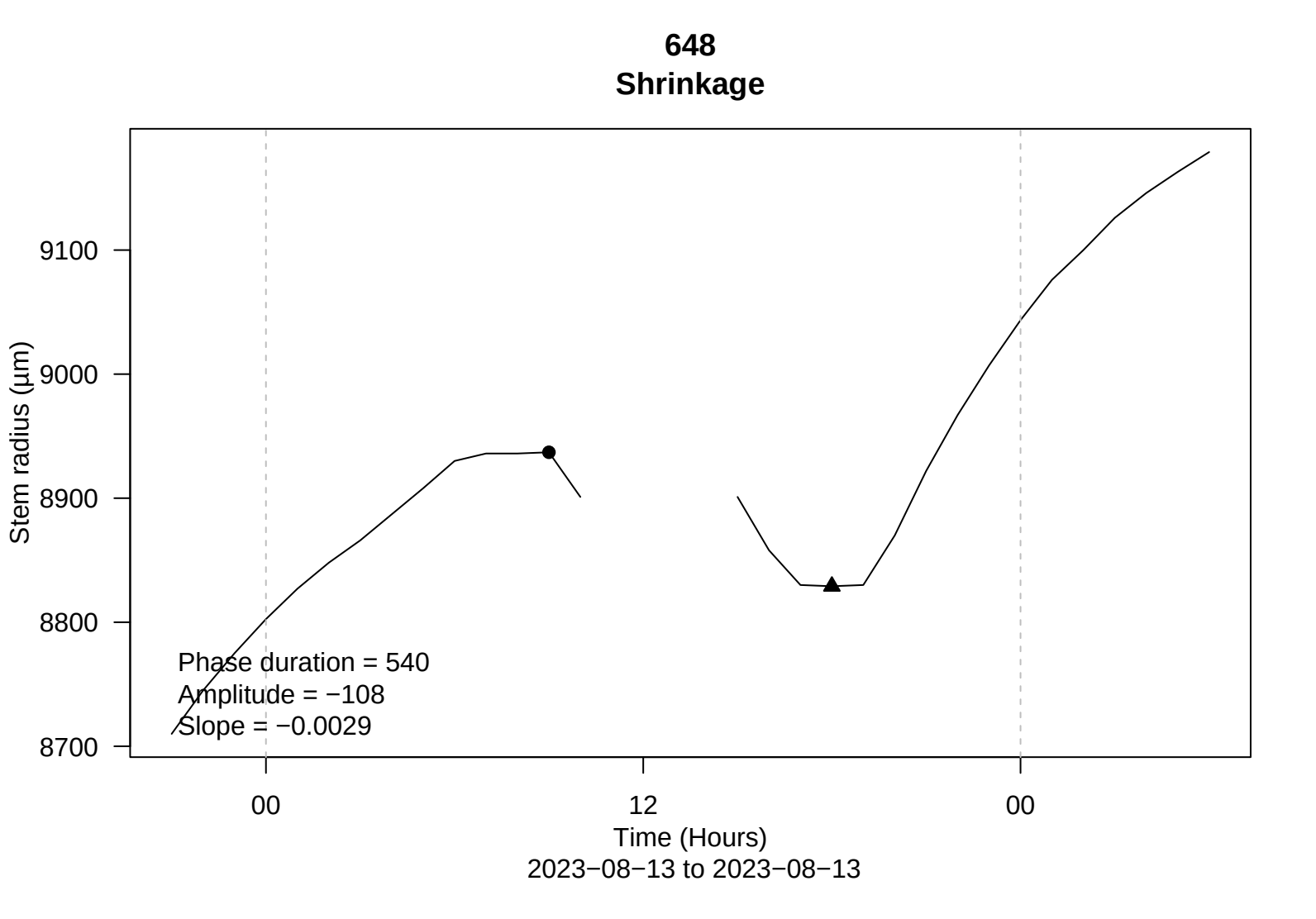

648
Expansion
8950
8900
8850
8800
8750
8700
Stem radius (µm)
Phase duration = 780
Amplitude = 287
Slope = 0.0068
12
00
12
Time (Hours)
2023−08−10 to 2023−08−11

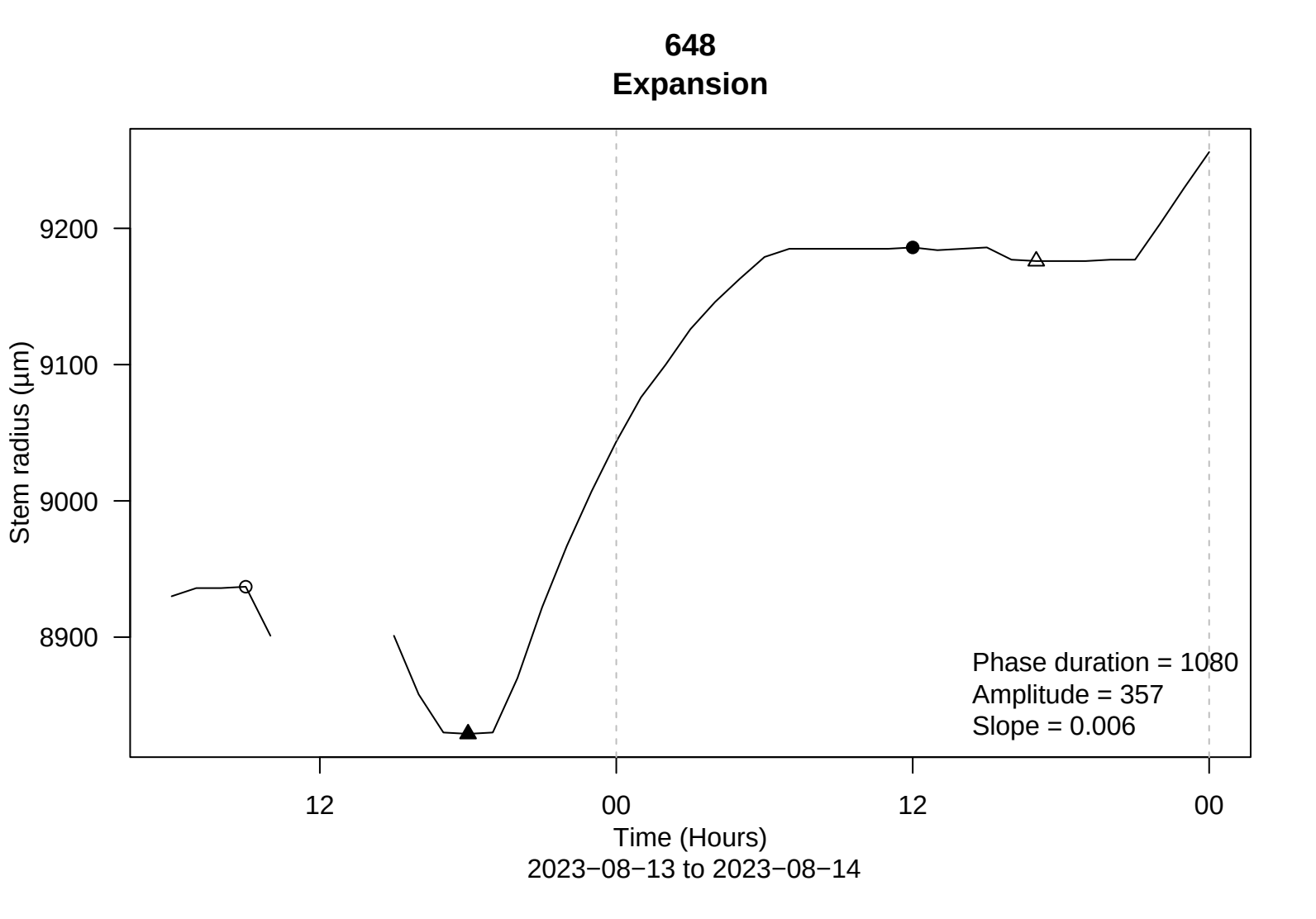

648
Shrinkage
8950
8900
8850
8800
8750
8700
Stem radius (µm)
Phase duration = 600
Amplitude = −231
Slope = −0.0078
00
12
00
Time (Hours)
2023−08−11 to 2023−08−11

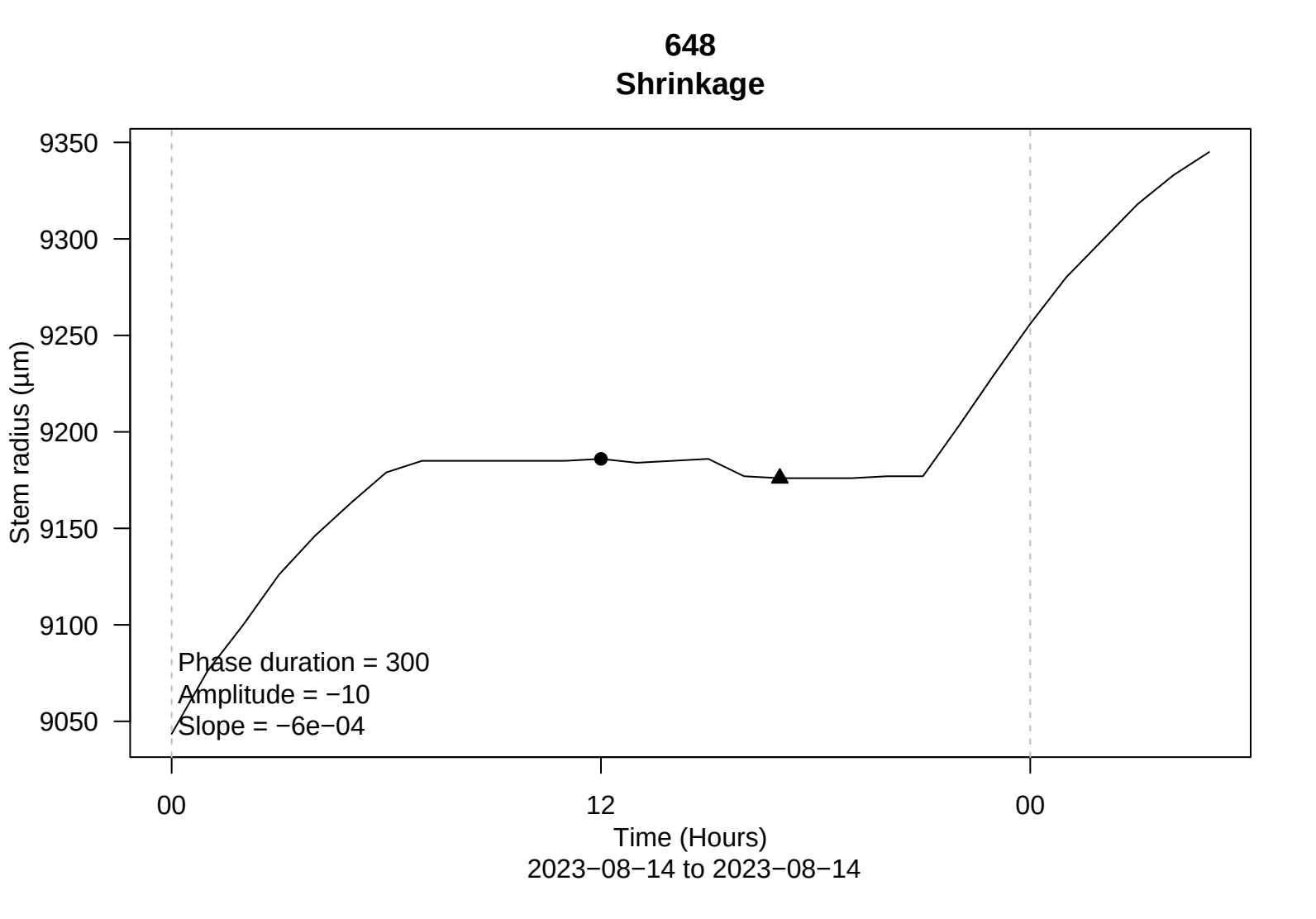

648
Expansion
8950
8900
8850
8800
8750
8700
Stem radius (µm)
Phase duration = 900
Amplitude = 231
Slope = 0.0051
12
00
12
Time (Hours)
2023−08−11 to 2023−08−12

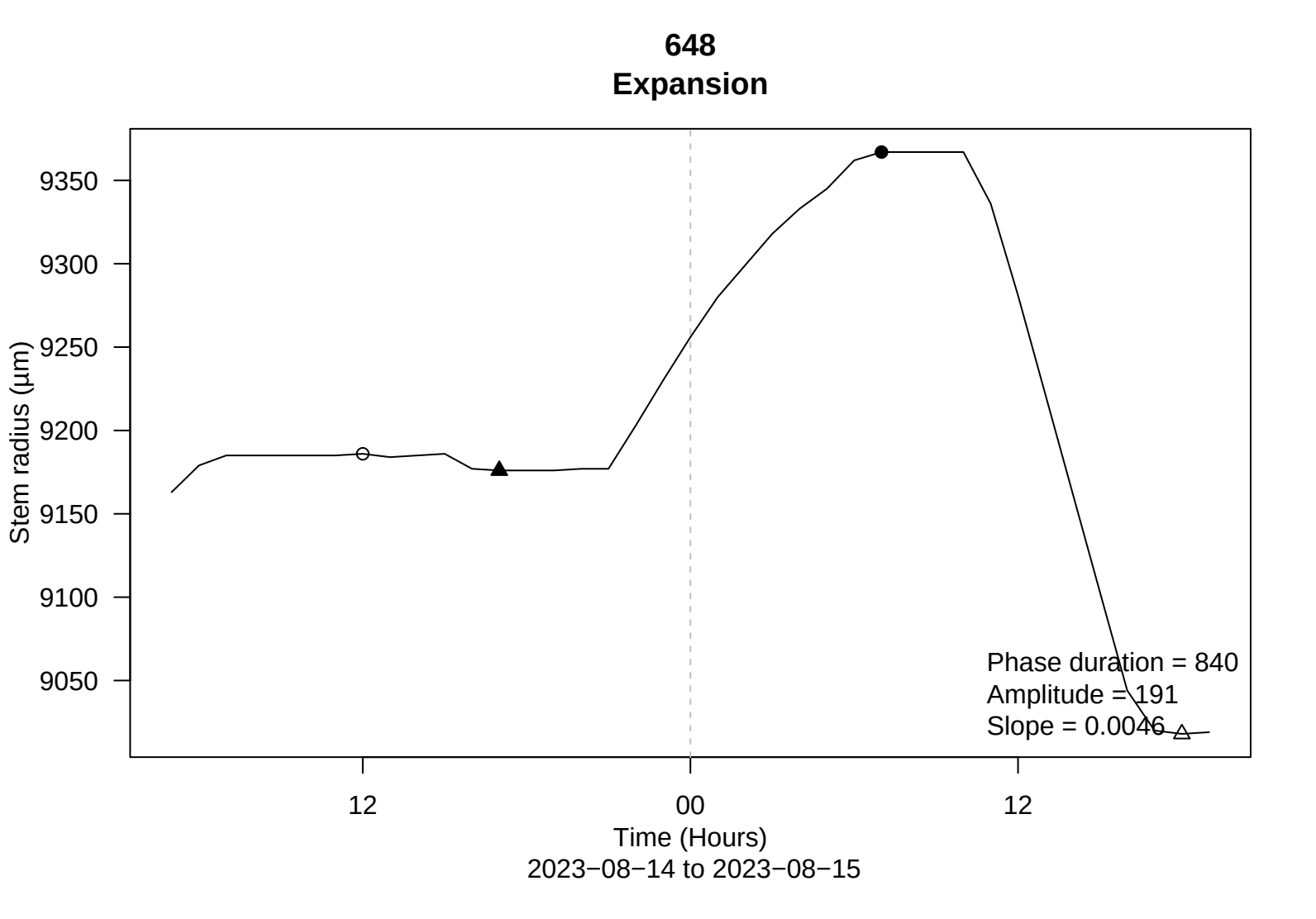

648
Shrinkage
8950
8900
8850
8800
8750
8700
Stem radius (µm)
Phase duration = 540
Amplitude = −292
Slope = −0.0106
00
12
00
Time (Hours)
2023−08−12 to 2023−08−12

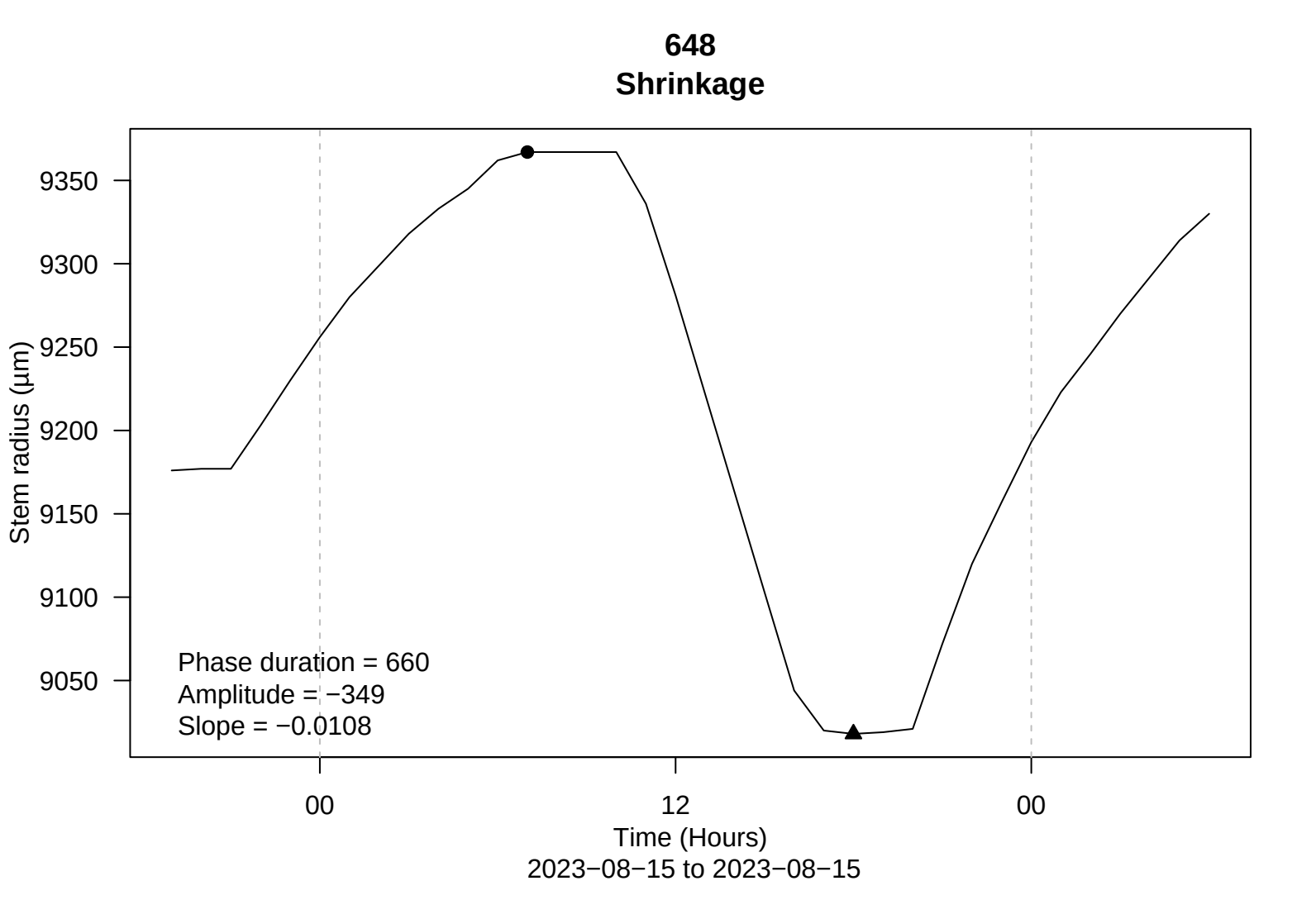

648
Expansion
8950
8900
8850
8800
8750
8700
Stem radius (µm)
Phase duration = 960
Amplitude = 273
Slope = 0.0057
12
00
12
Time (Hours)
2023−08−12 to 2023−08−13

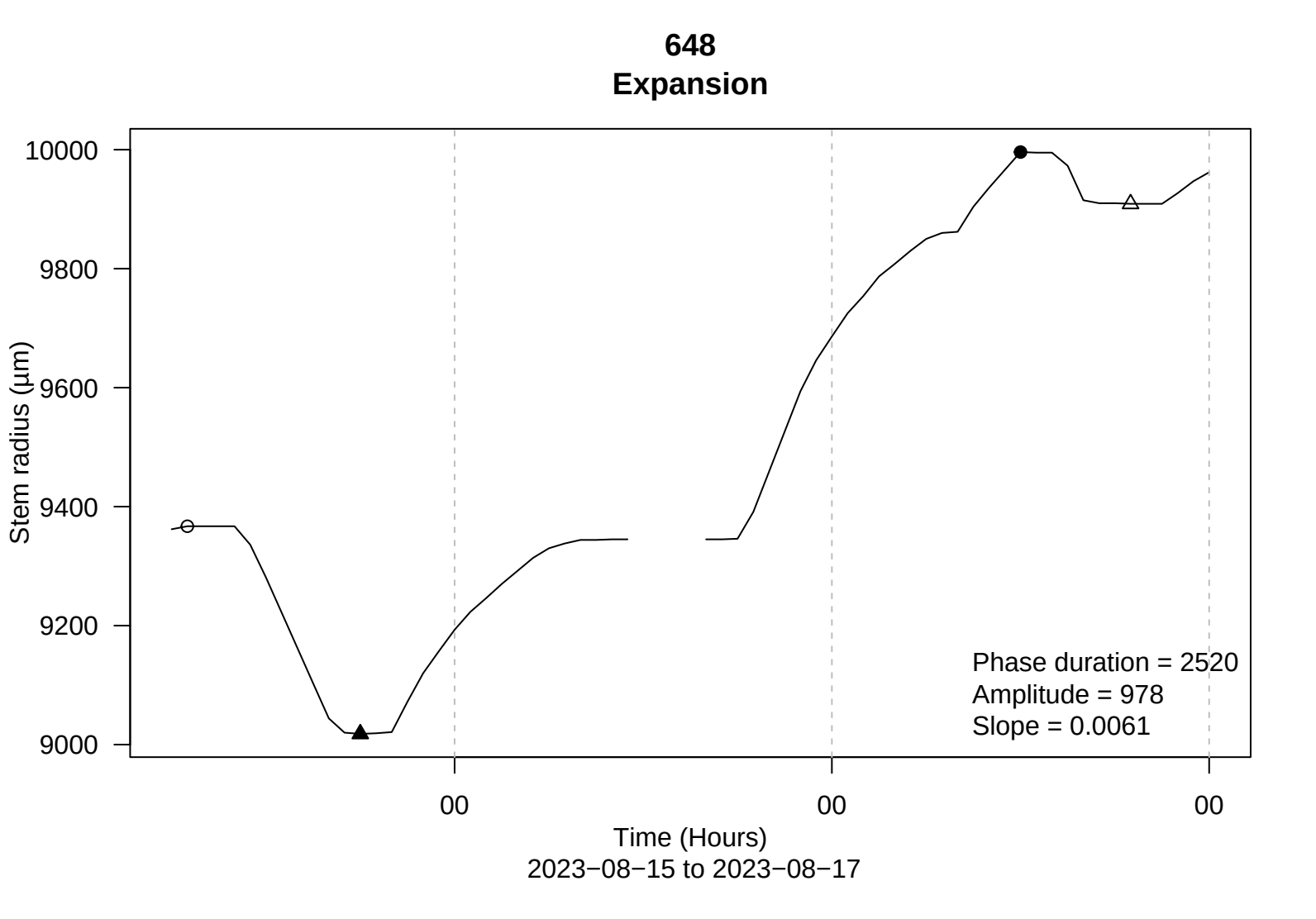

648
Shrinkage
9100
9000
8900
8800
8700
Stem radius (µm)
Phase duration = 540
Amplitude = −108
Slope = −0.0029
00
12
00
Time (Hours)
2023−08−13 to 2023−08−13

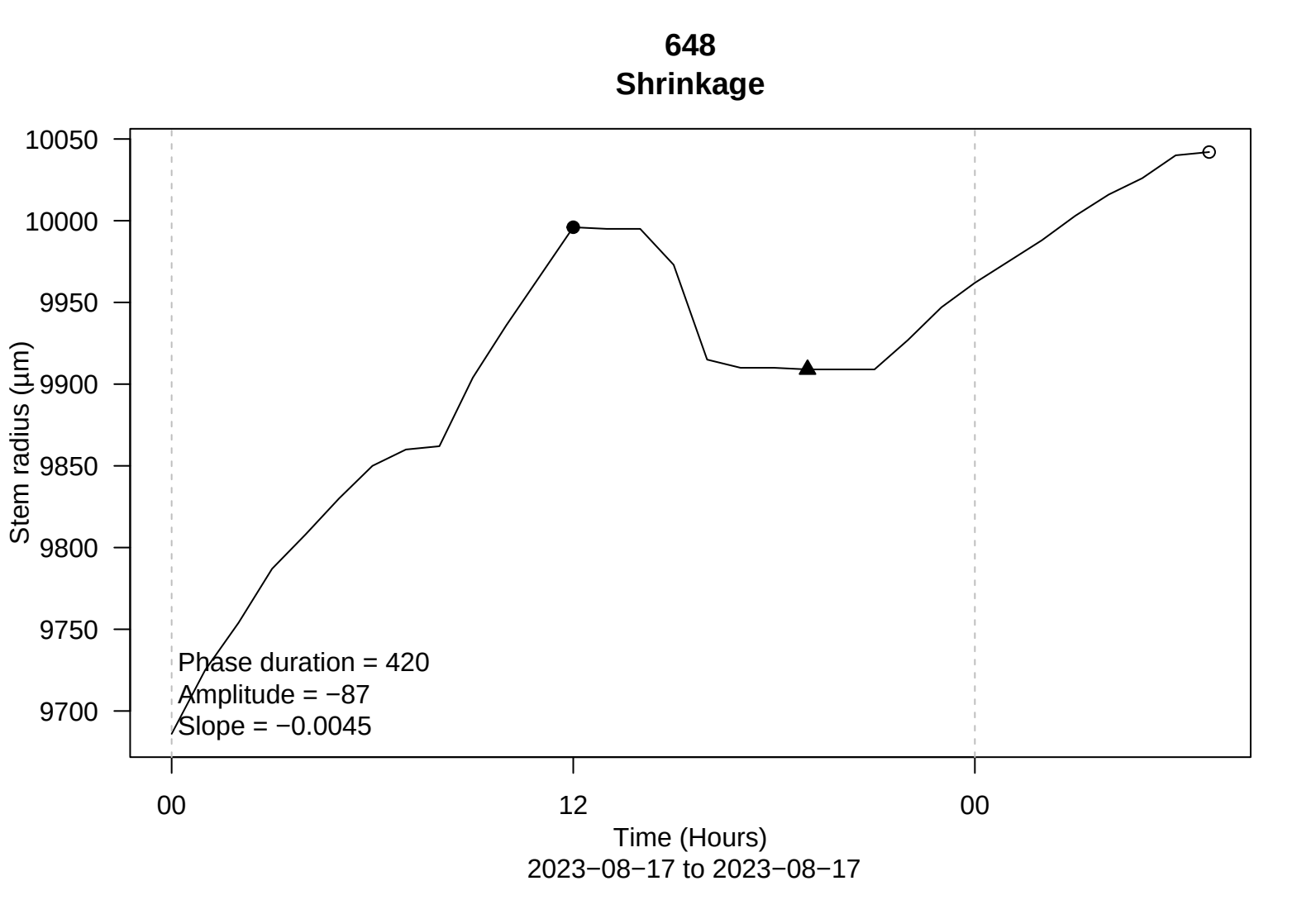

648
Expansion
9200
9100
9000
8900
Stem radius (µm)
Phase duration = 1080
Amplitude = 357
Slope = 0.006
12
00
12
00
Time (Hours)
2023−08−13 to 2023−08−14

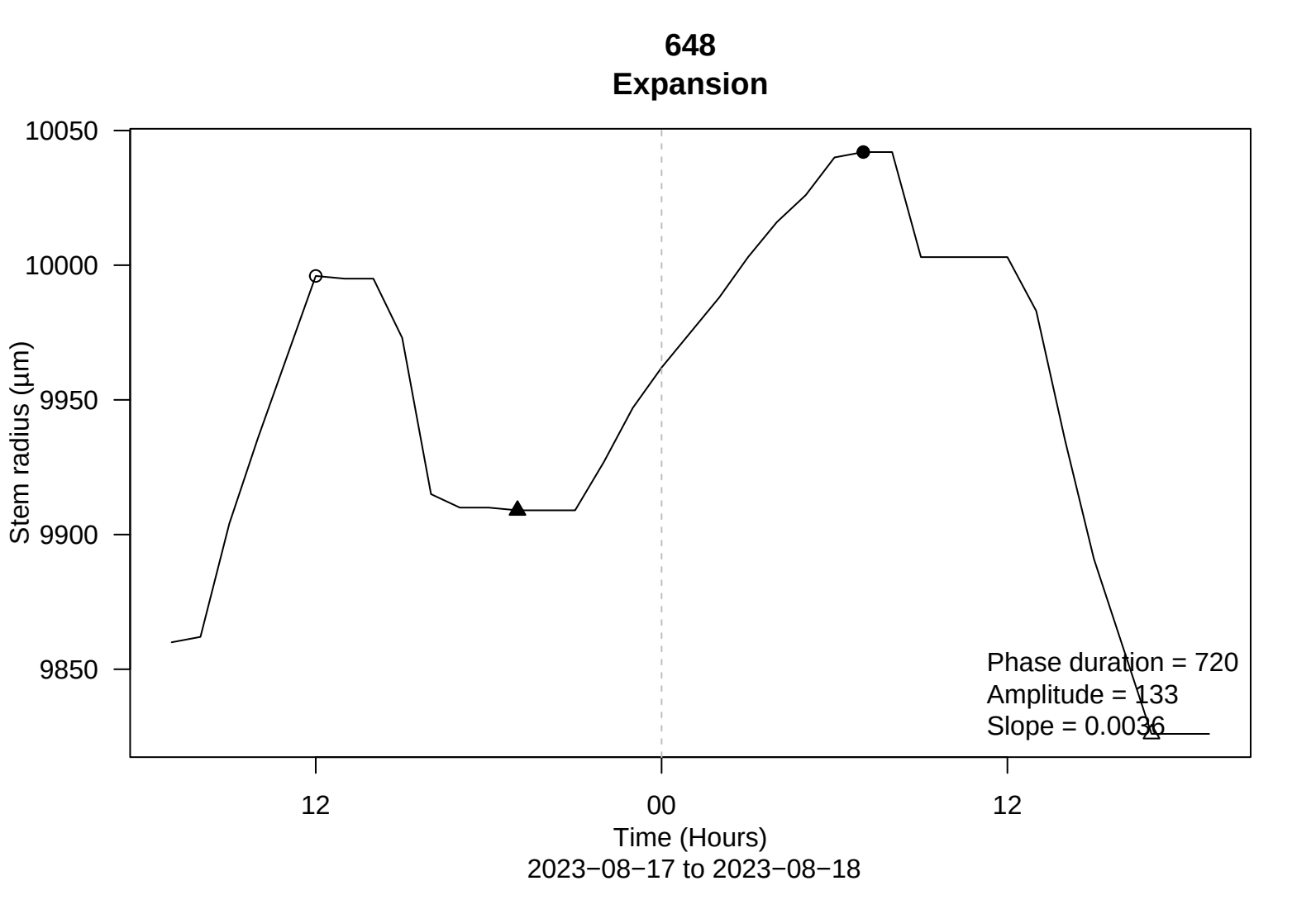

648
Shrinkage
9350
9300
9250
9200
9150
9100
9050
Stem radius (µm)
Phase duration = 300
Amplitude = −10
Slope = −6e−04
00
12
00
Time (Hours)
2023−08−14 to 2023−08−14

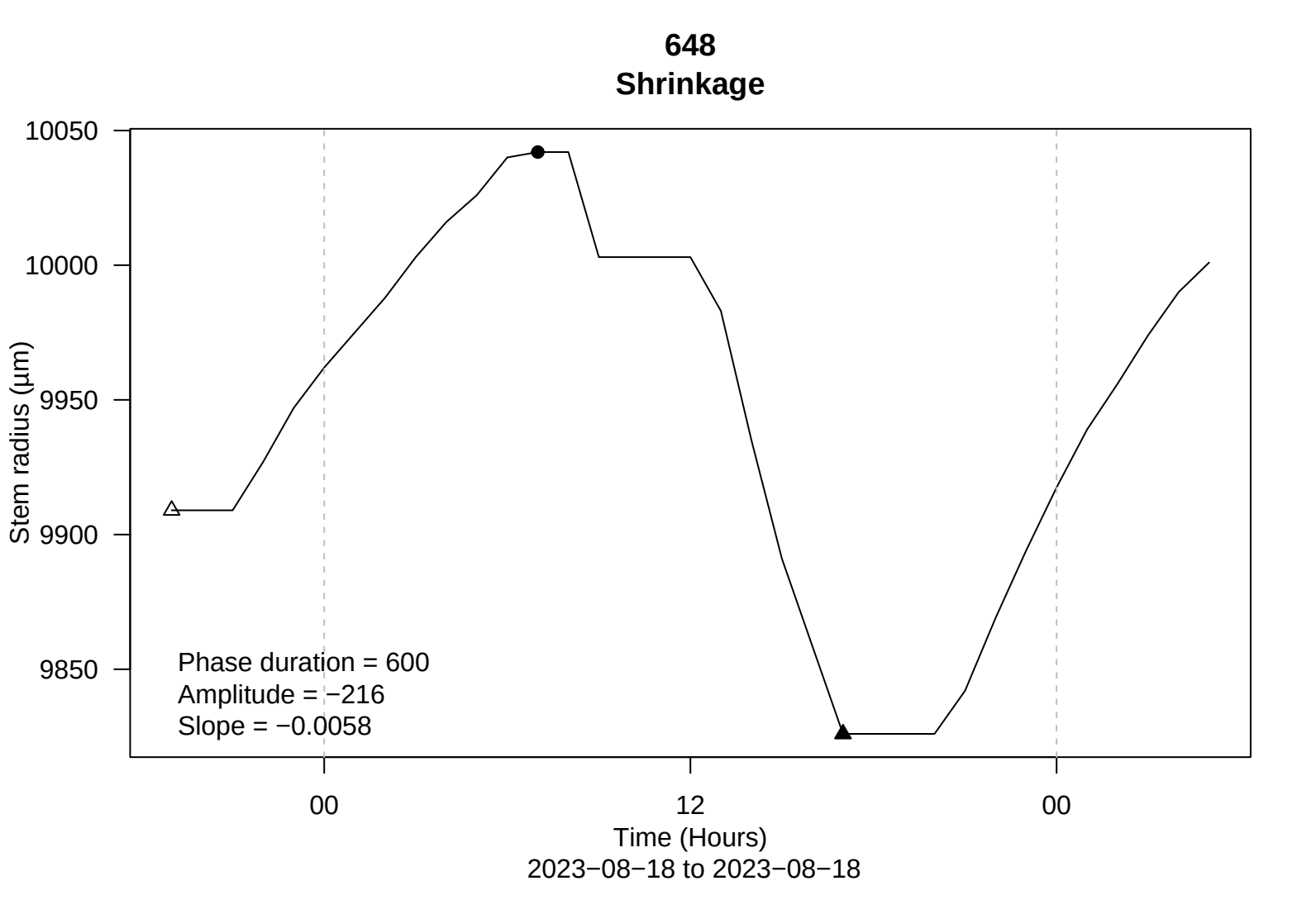

648
Expansion
9350
9300
9250
9200
9150
9100
9050
Stem radius (µm)
Phase duration = 840
Amplitude = 191
Slope = 0.0046
12
00
12
Time (Hours)
2023−08−14 to 2023−08−15

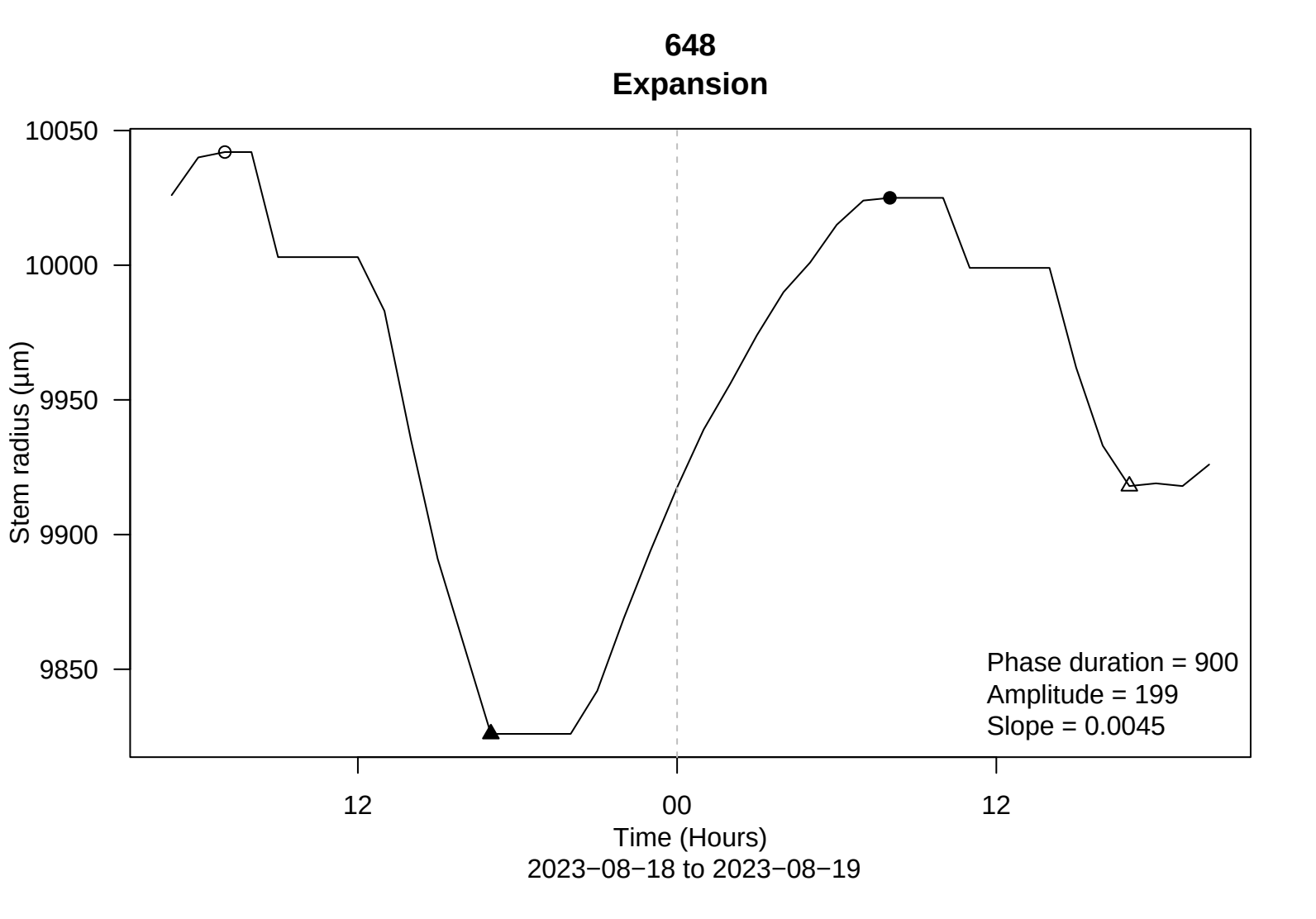

648
Shrinkage
Stem radius (µm)
9350
9300
9250
9200
9150
9100
9050
Phase duration = 660
Amplitude = −349
Slope = −0.0108
00
12
00
Time (Hours)
2023−08−15 to 2023−08−15

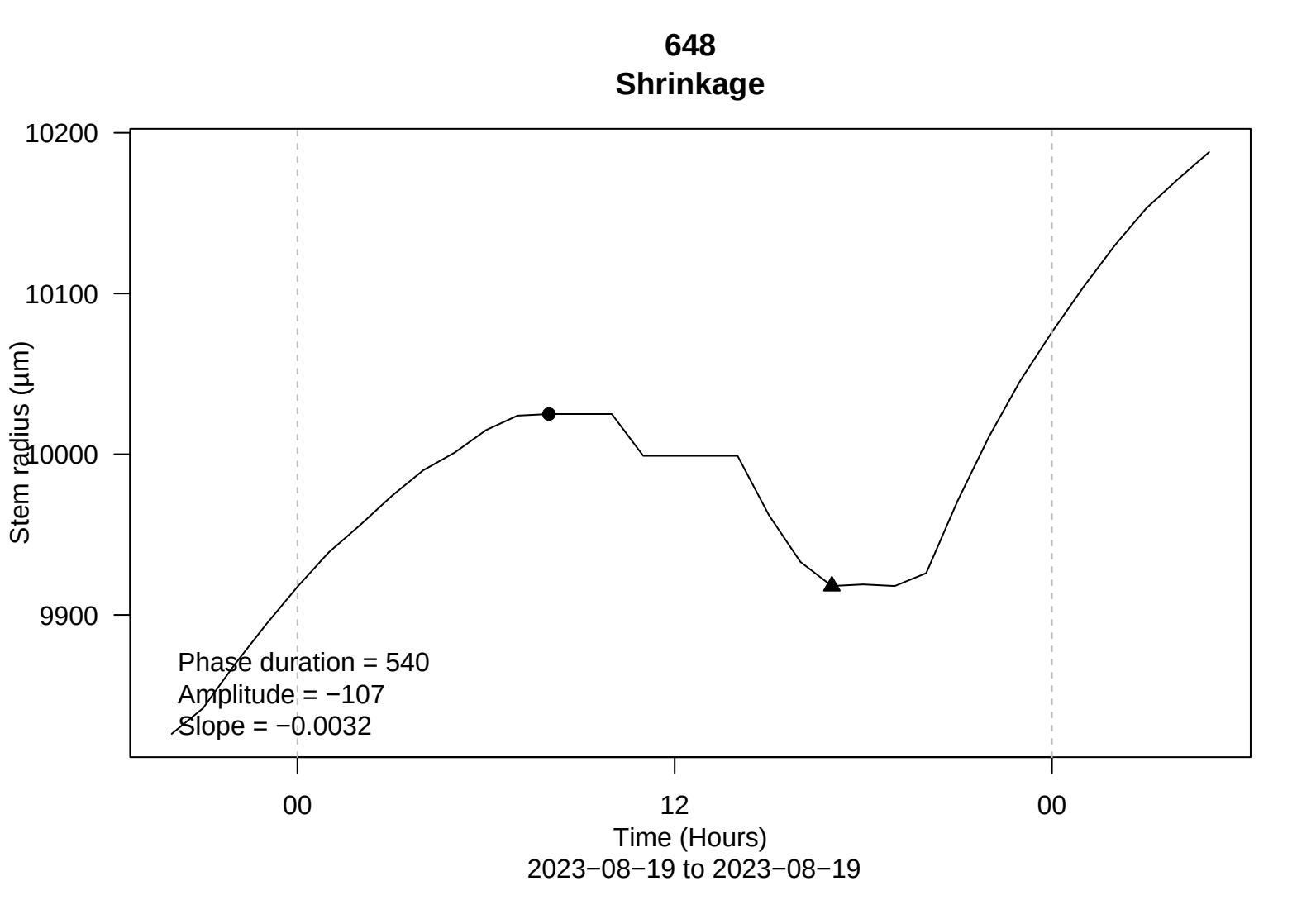

648
Expansion
10000
9800
9600
9400
9200
9000
Stem radius (µm)
Phase duration = 2520
Amplitude = 978
Slope = 0.0061
00
00
00
Time (Hours)
2023−08−15 to 2023−08−17

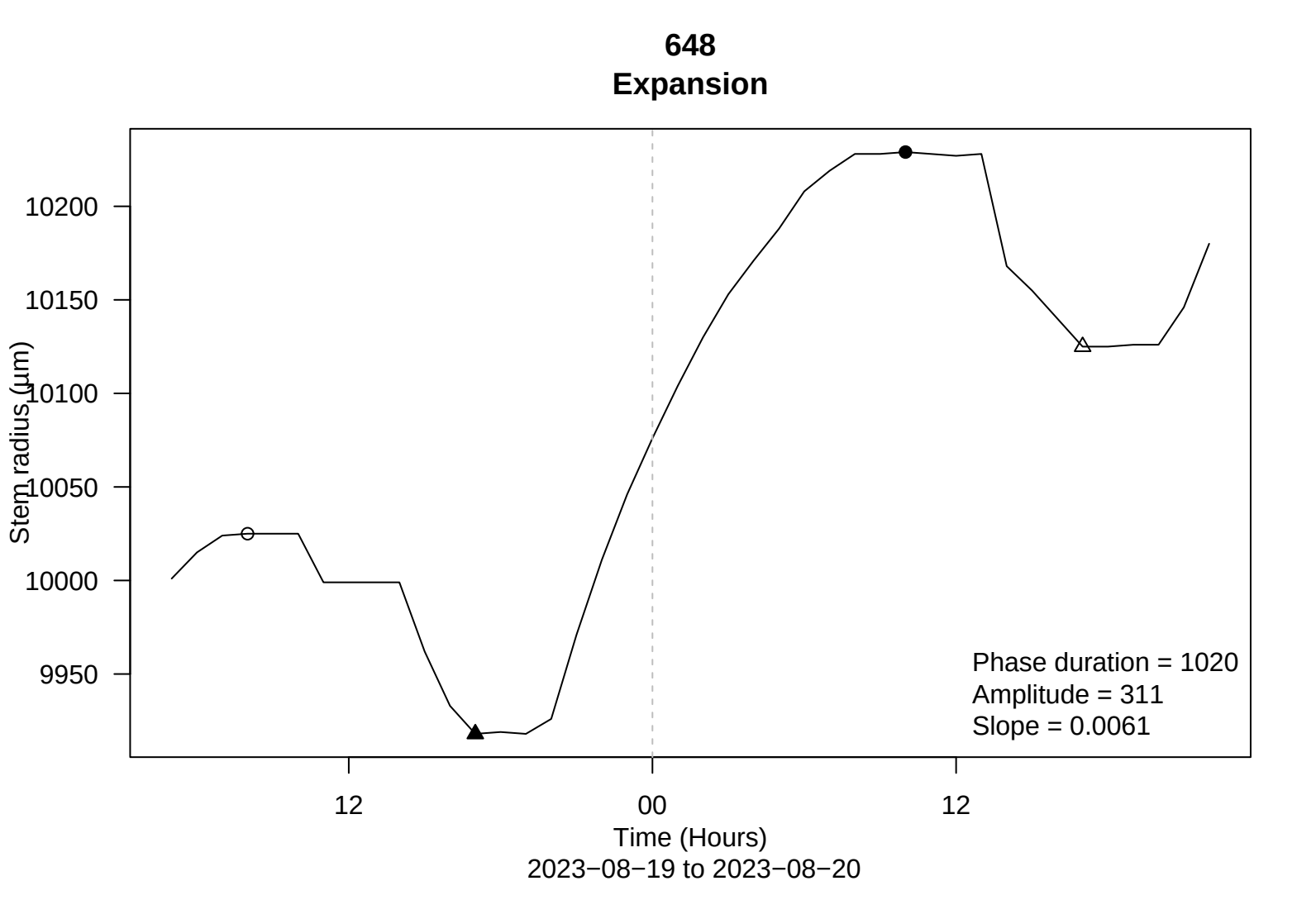

648
Shrinkage
10050
10000
9950
9900
9850
9800
9750
9700
Stem radius (µm)
Phase duration = 420
Amplitude = −87
Slope = −0.0045
00
12
00
Time (Hours)
2023−08−17 to 2023−08−17

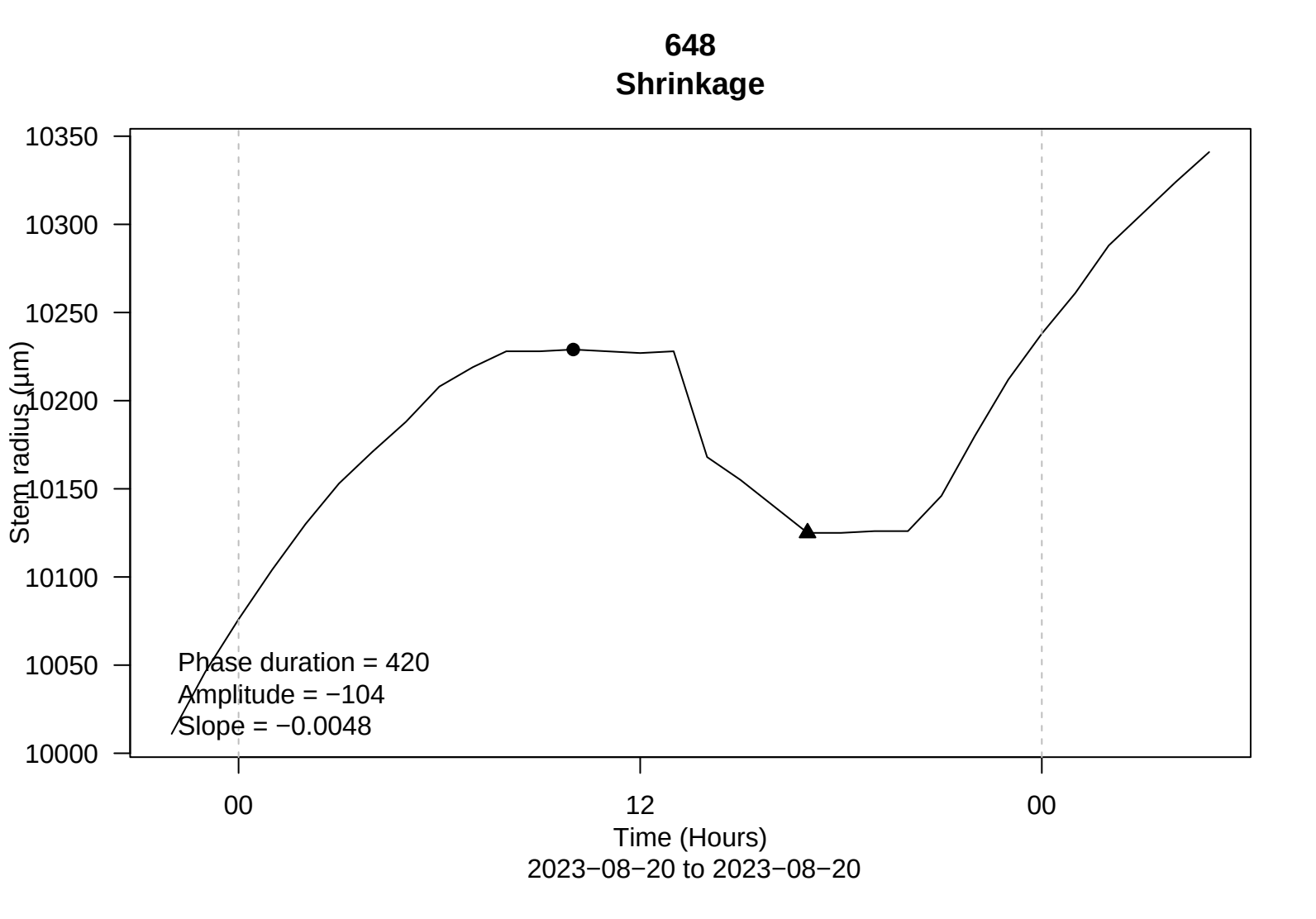

648
Expansion
10050
10000
9950
9900
9850
Stem radius (µm)
Phase duration = 720
Amplitude = 133
Slope = 0.0036
12
00
12
Time (Hours)
2023−08−17 to 2023−08−18

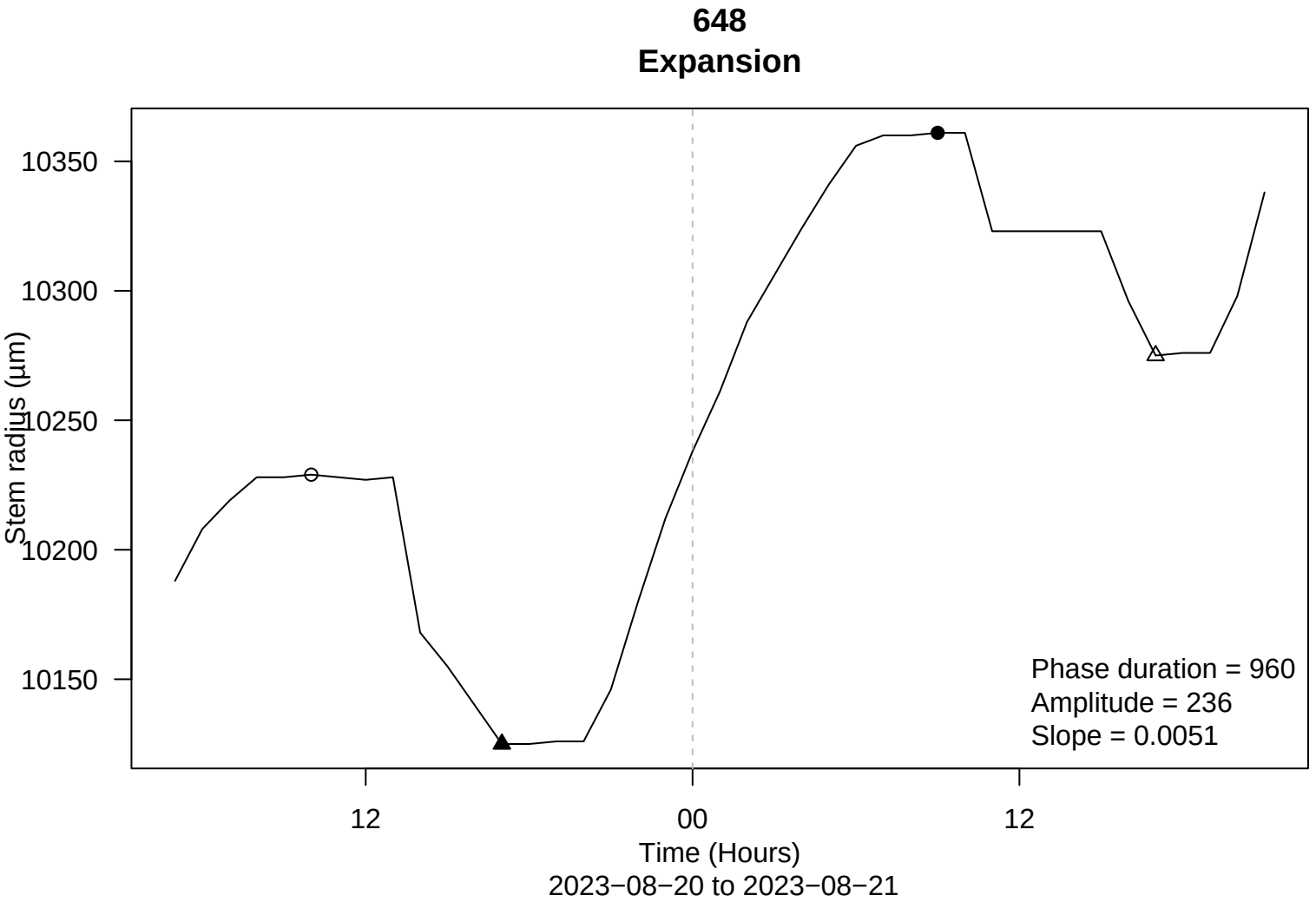

648
Shrinkage
10050
10000
9950
9900
9850
Stem radius (µm)
Phase duration = 600
Amplitude = −216
Slope = −0.0058
00
12
00
Time (Hours)
2023−08−18 to 2023−08−18

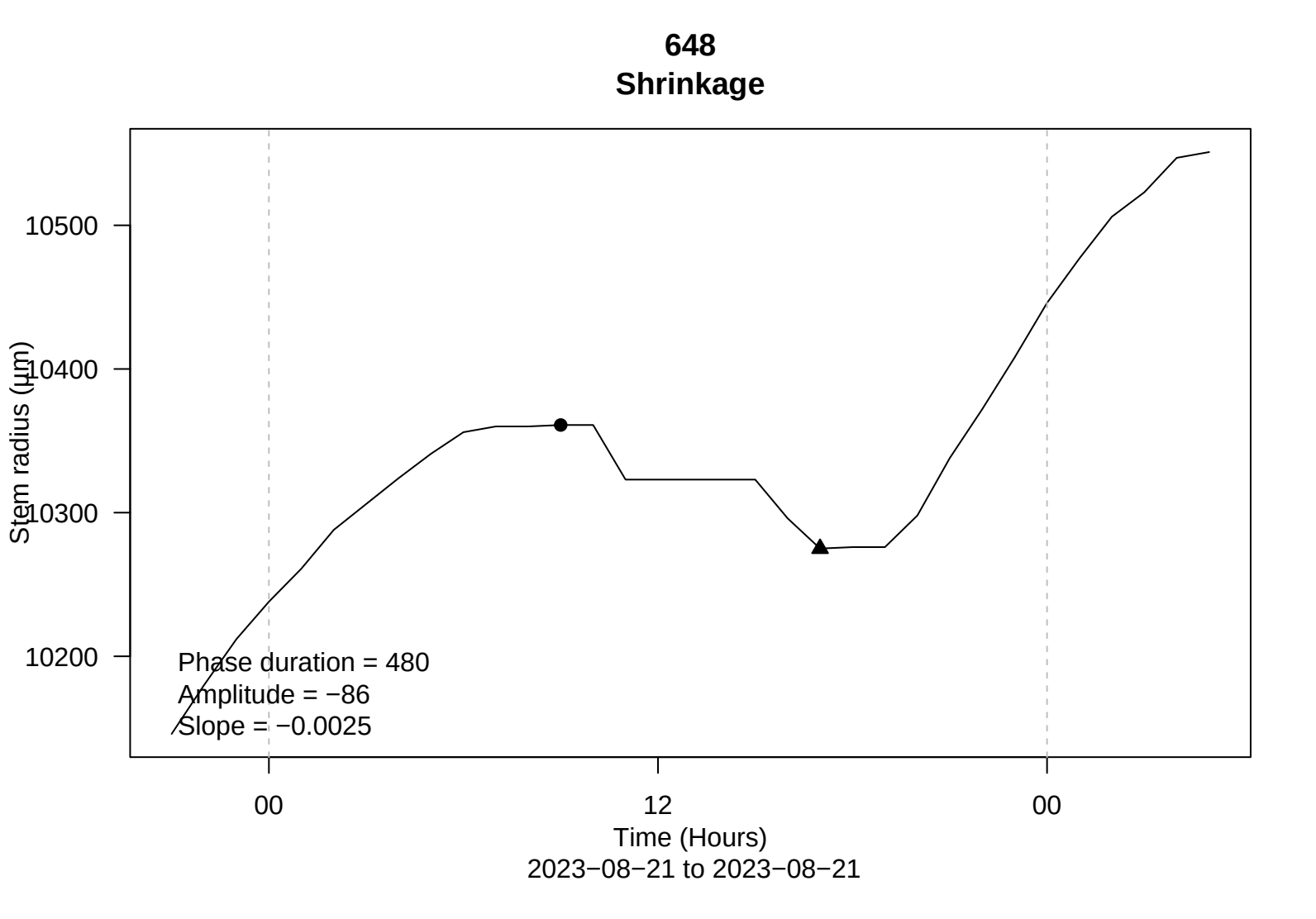

648
Expansion
10050
10000
9950
9900
9850
Stem radius (µm)
Phase duration = 900
Amplitude = 199
Slope = 0.0045
12
00
12
Time (Hours)
2023−08−18 to 2023−08−19

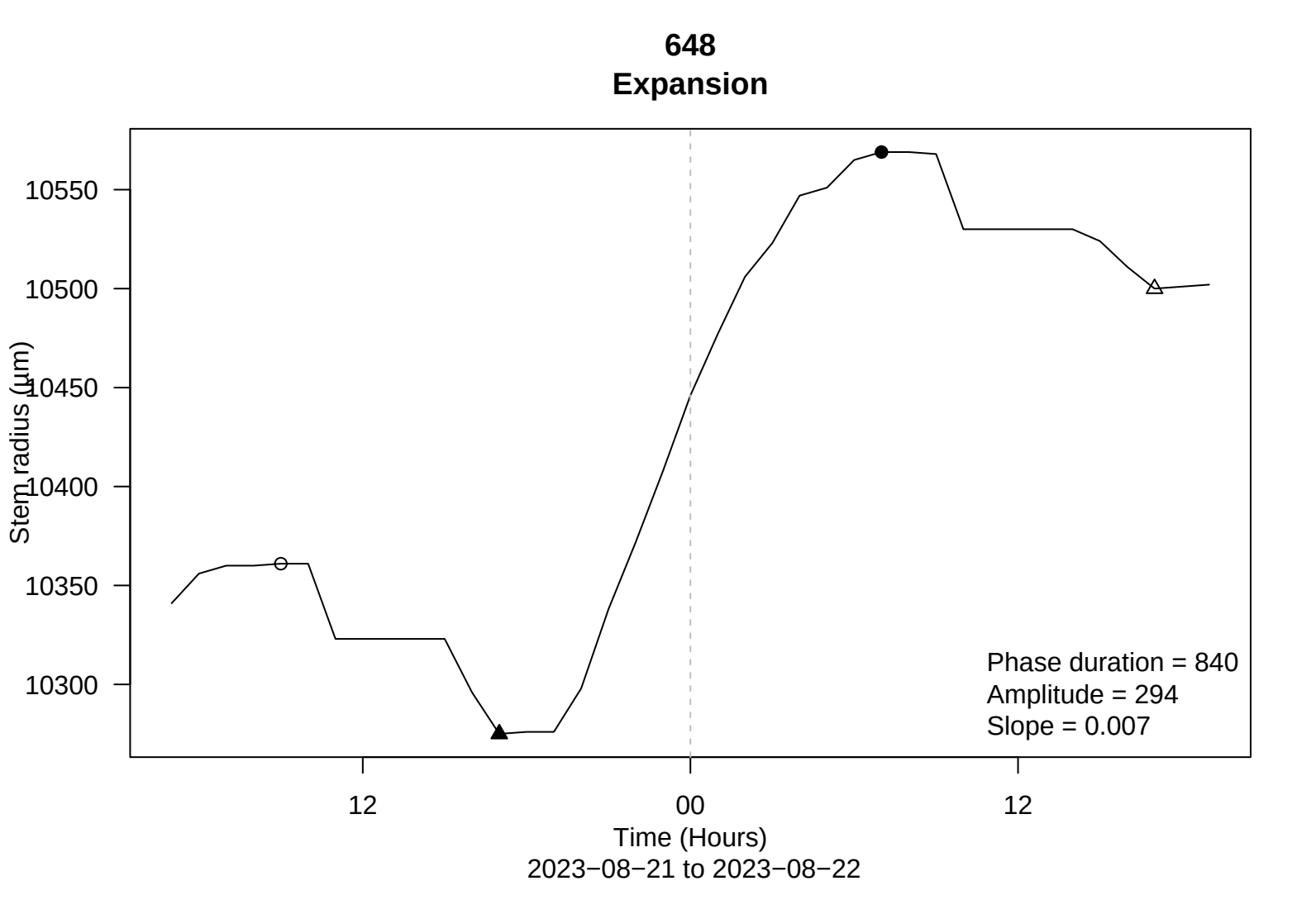

648
Shrinkage
10200
10100
10000
9900
Stem radius (µm)
Phase duration = 540
Amplitude = −107
Slope = −0.0032
00
12
00
Time (Hours)
2023−08−19 to 2023−08−19

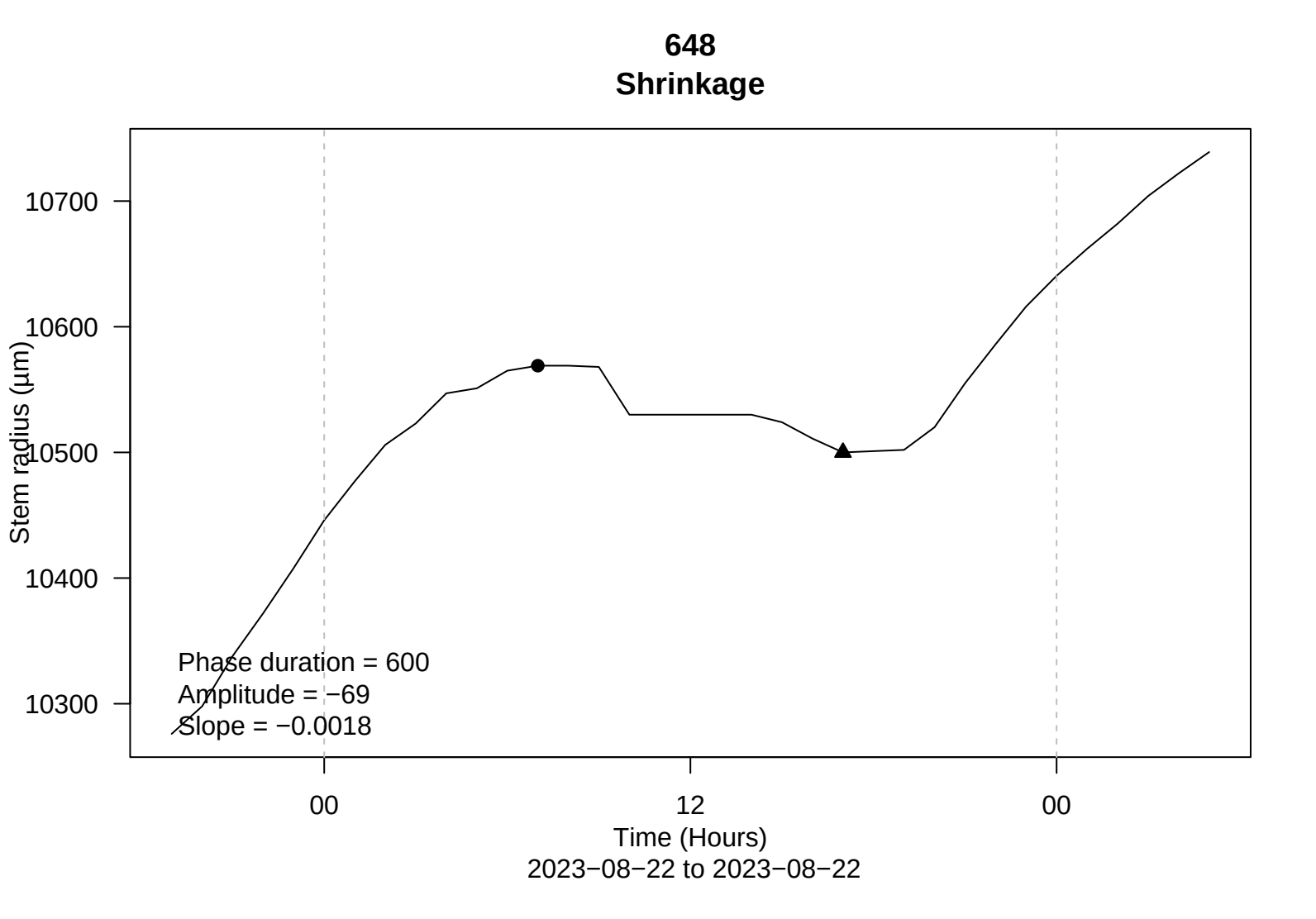

648
Expansion
10200
10150
10100
10050
10000
9950
Stem radius (µm)
Phase duration = 1020
Amplitude = 311
Slope = 0.0061
12
00
12
Time (Hours)
2023−08−19 to 2023−08−20

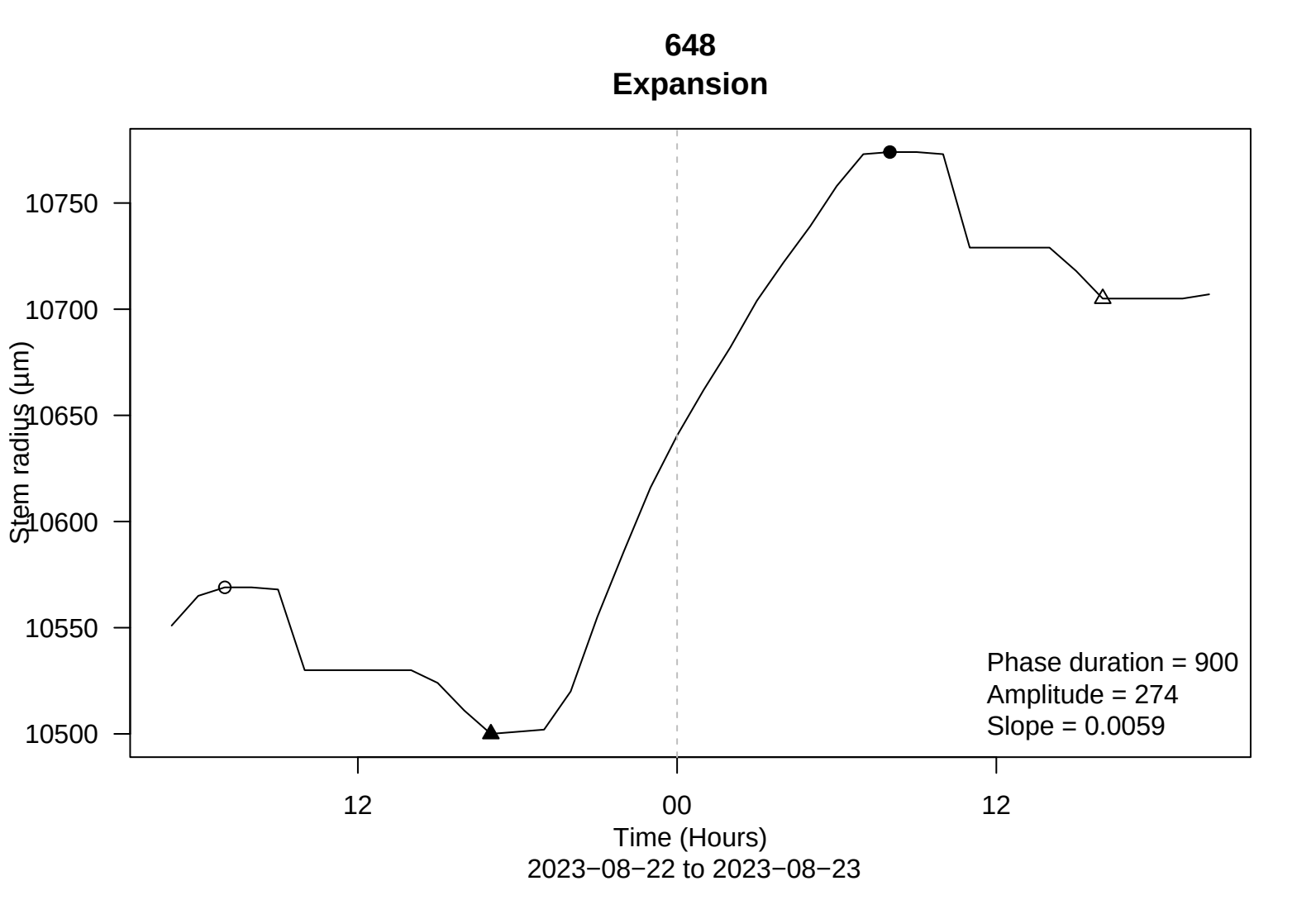

648
Shrinkage
10350
10300
10250
10200
10150
10100
10050
10000
Stem radius (µm)
Phase duration = 420
Amplitude = −104
Slope = −0.0048
00
12
00
Time (Hours)
2023−08−20 to 2023−08−20

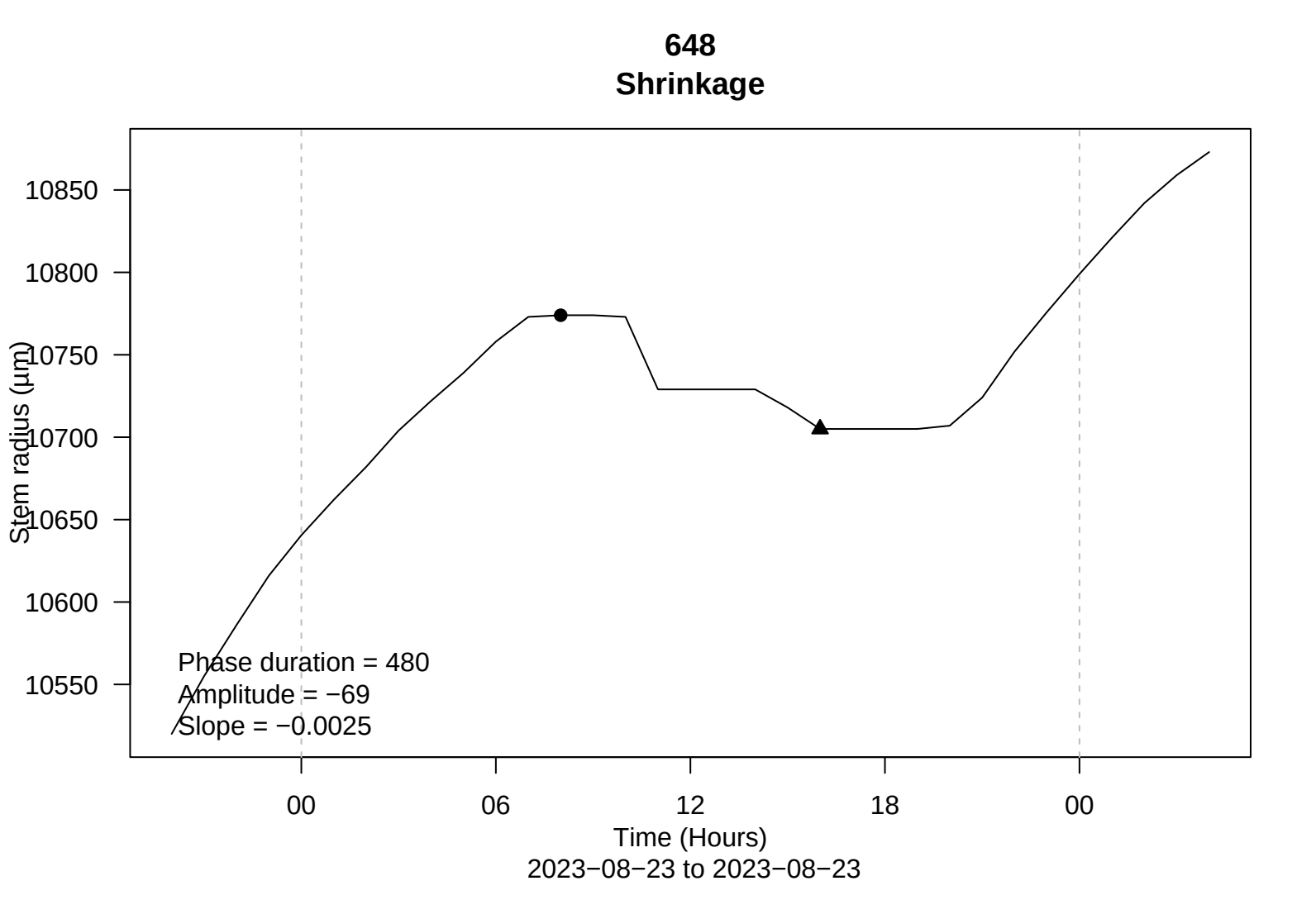

648
Expansion
10350
10300
10250
10200
10150
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−20 to 2023−08−21
Phase duration = 960
Amplitude = 236
Slope = 0.0051

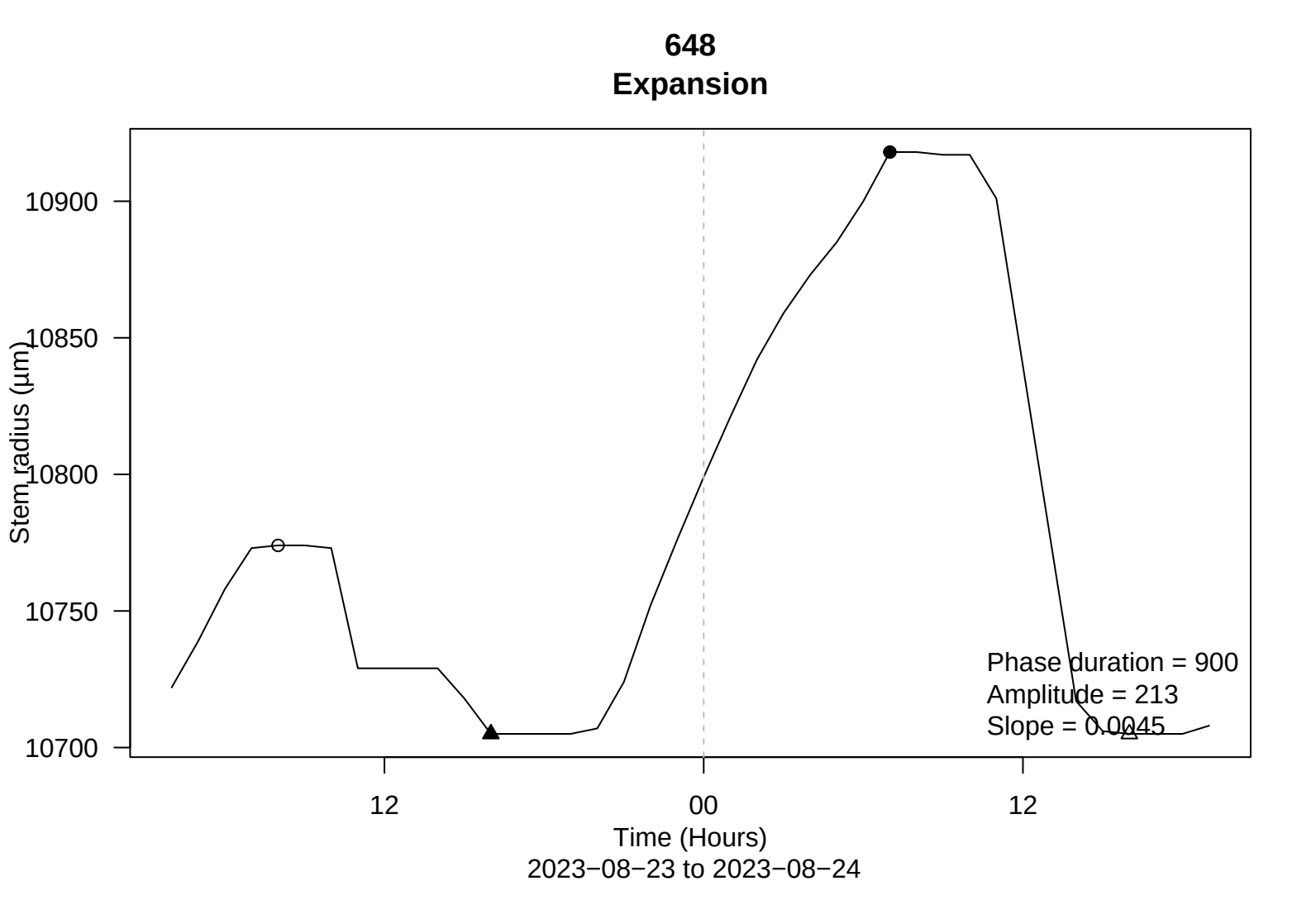

648
Shrinkage
10500
10400
10300
10200
Stem radius (µm)
Phase duration = 480
Amplitude = −86
Slope = −0.0025
00
12
00
Time (Hours)
2023−08−21 to 2023−08−21

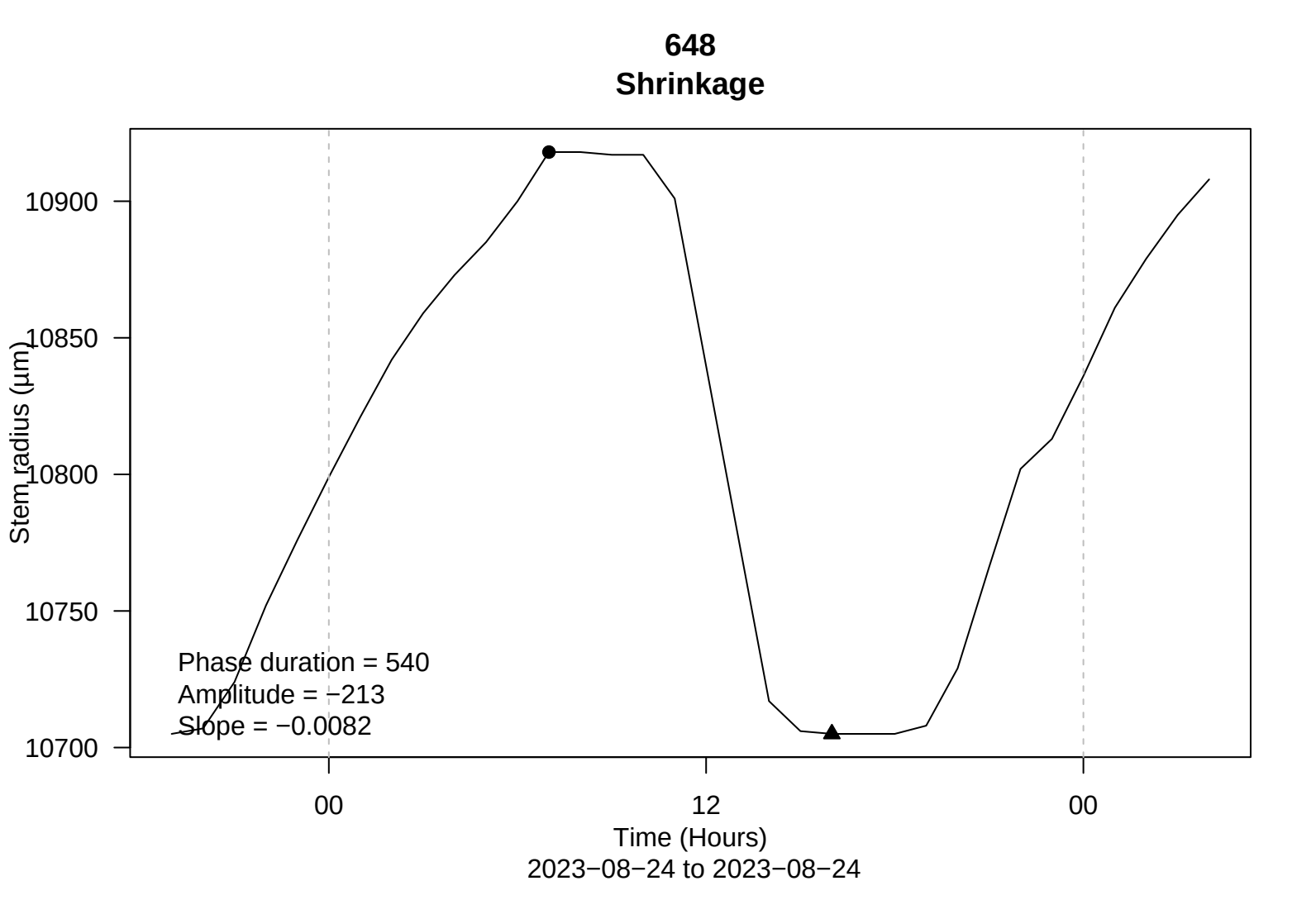

648
Expansion
10550
10500
10450
10400
10350
10300
Stem radius (µm)
Phase duration = 840
Amplitude = 294
Slope = 0.007
12
00
12
Time (Hours)
2023−08−21 to 2023−08−22

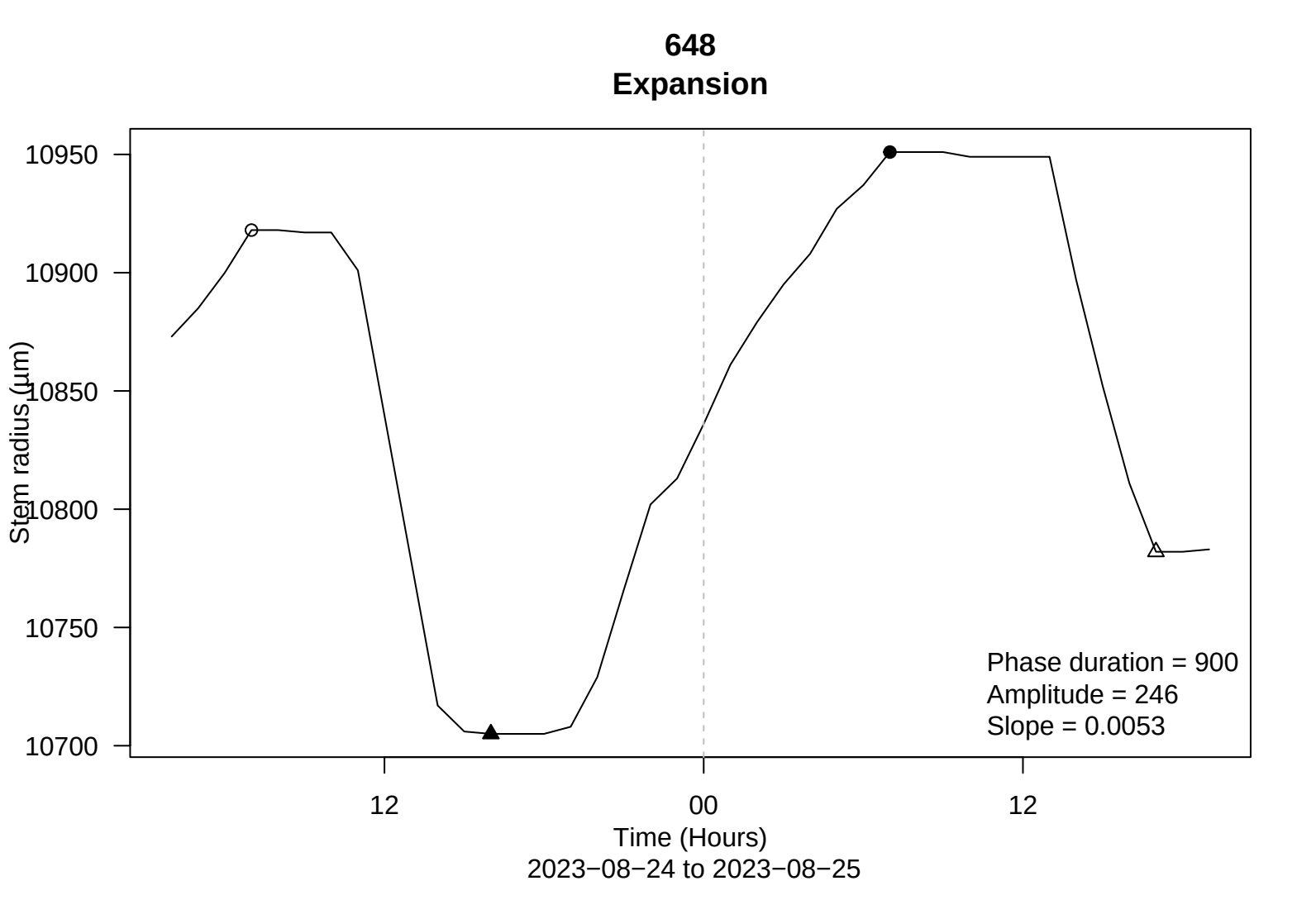

648
Shrinkage
10700
10600
10500
10400
10300
Stem radius (µm)
Phase duration = 600
Amplitude = −69
Slope = −0.0018
00
12
00
Time (Hours)
2023−08−22 to 2023−08−22

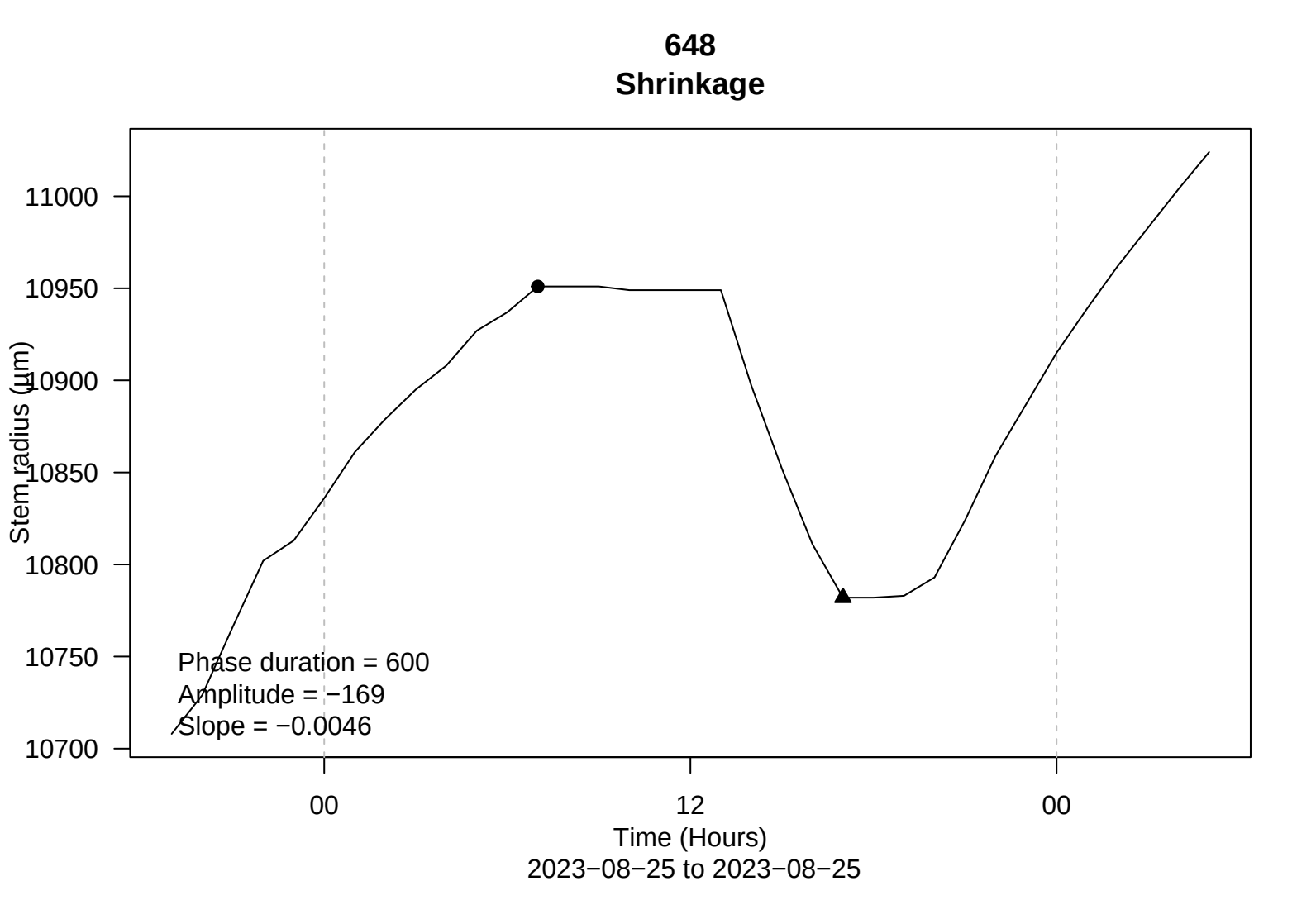

648
Expansion
10750
10700
10650
10600
10550
10500
Stem radius (µm)
Phase duration = 900
Amplitude = 274
Slope = 0.0059
12
00
12
Time (Hours)
2023−08−22 to 2023−08−23

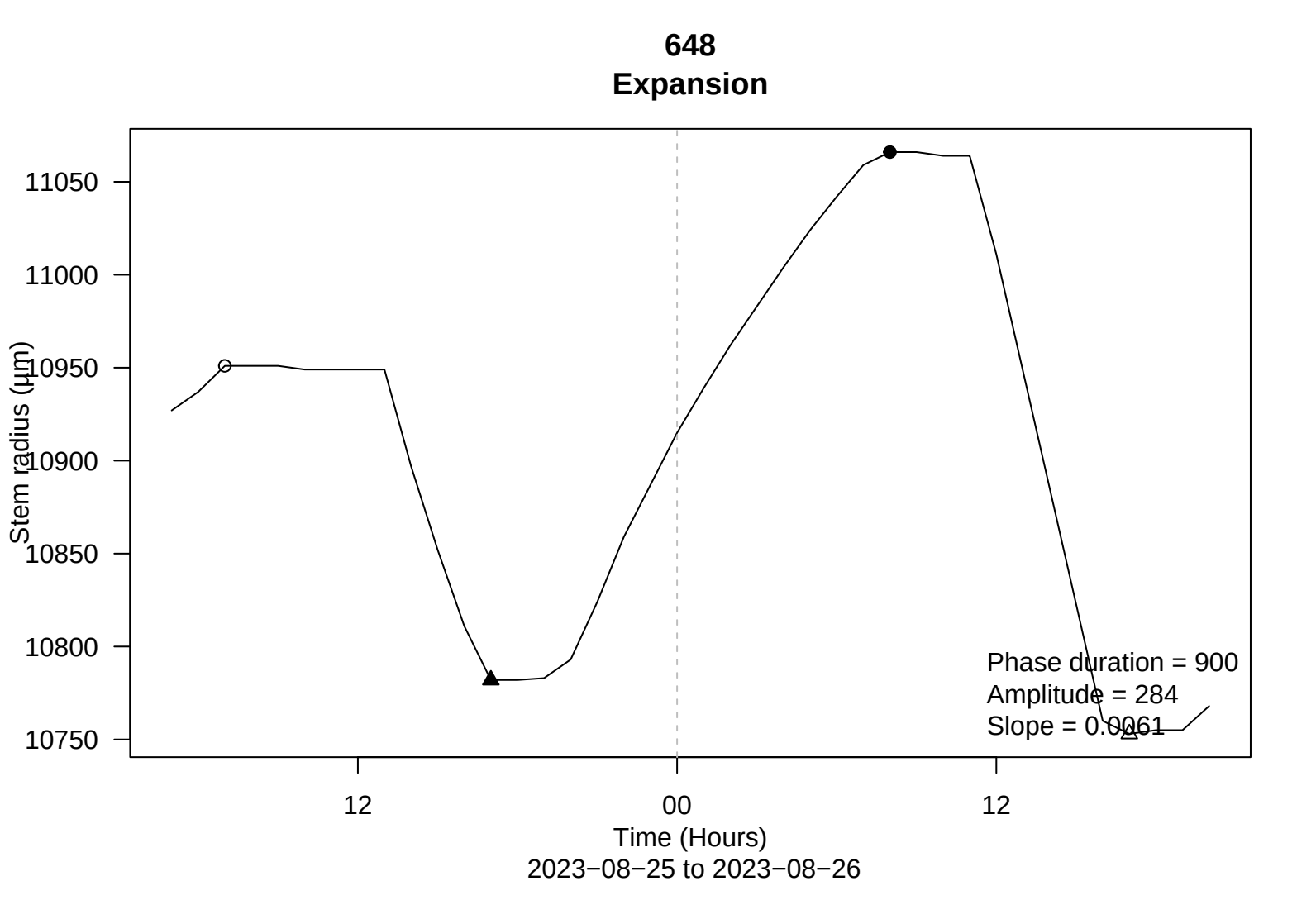

648
Shrinkage
10850
10800
10750
10700
10650
10600
10550
Stem radius (µm)
Phase duration = 480
Amplitude = −69
Slope = −0.0025
00
06
12
18
00
Time (Hours)
2023−08−23 to 2023−08−23

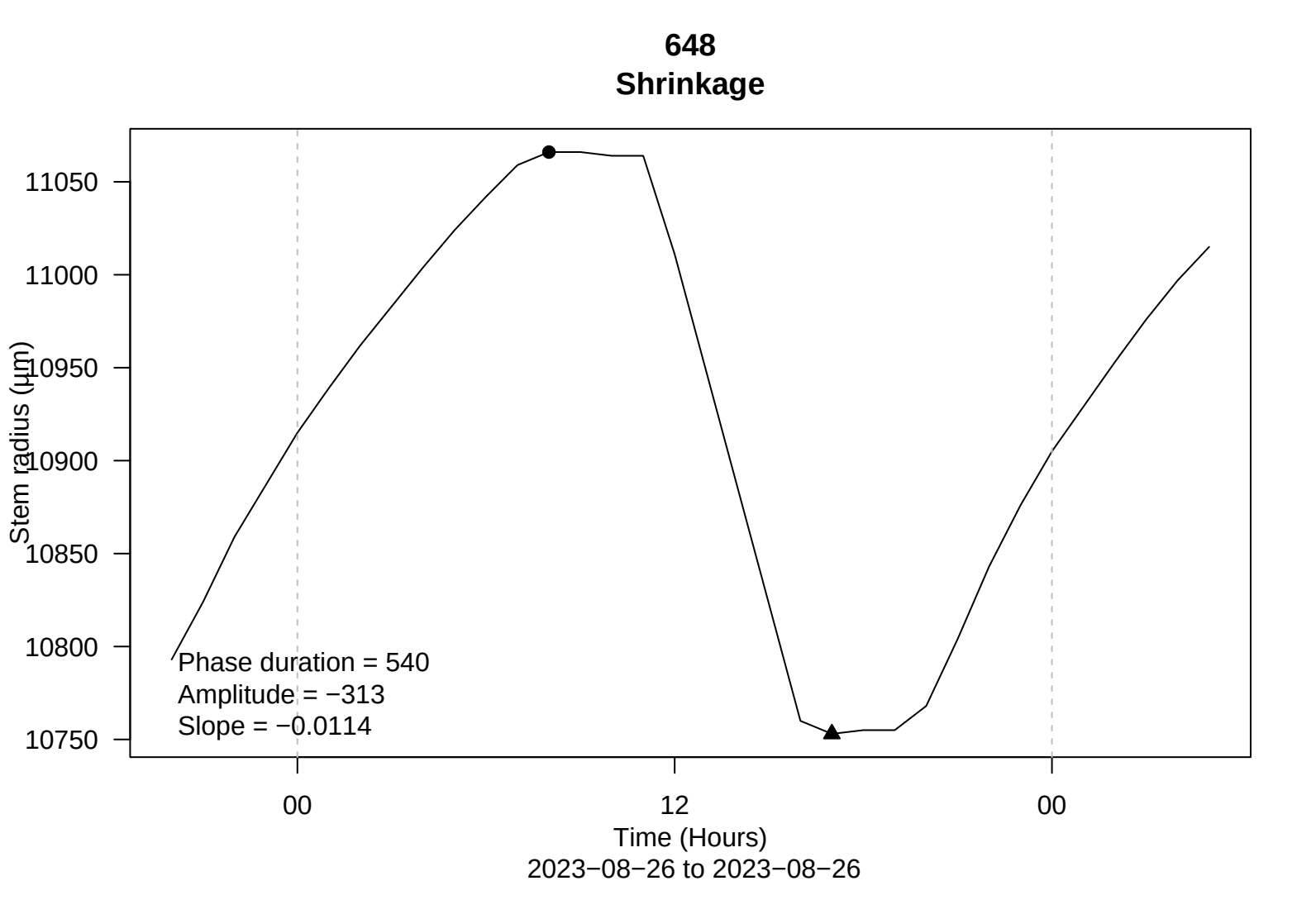

648
Expansion
10900
10850
10800
10750
10700
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−23 to 2023−08−24
Phase duration = 900
Amplitude = 213
Slope = 0.0045

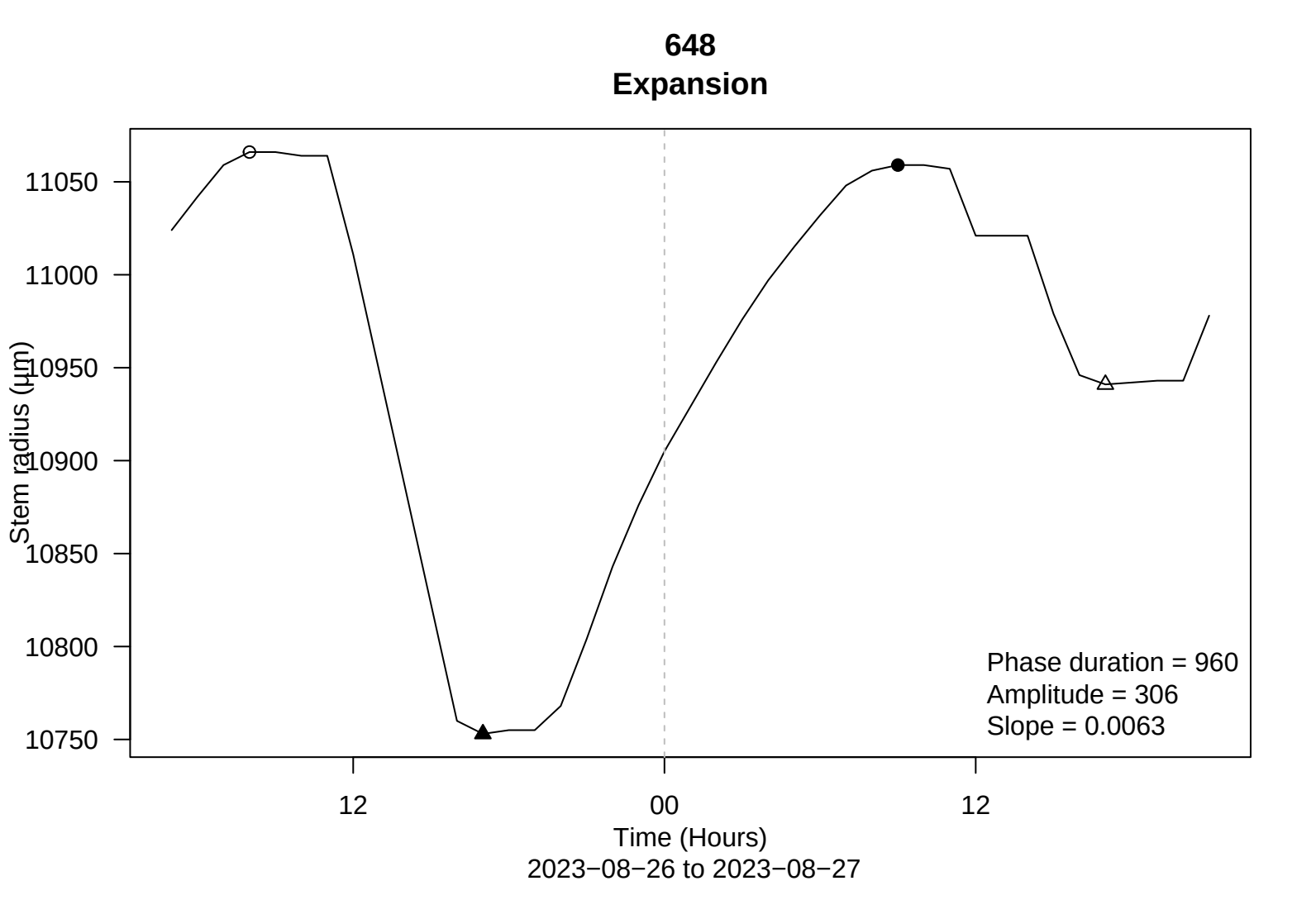

648
Shrinkage
10900
10850
10800
10750
10700
Stem radius (µm)
Phase duration = 540
Amplitude = −213
Slope = −0.0082
00
12
00
Time (Hours)
2023−08−24 to 2023−08−24

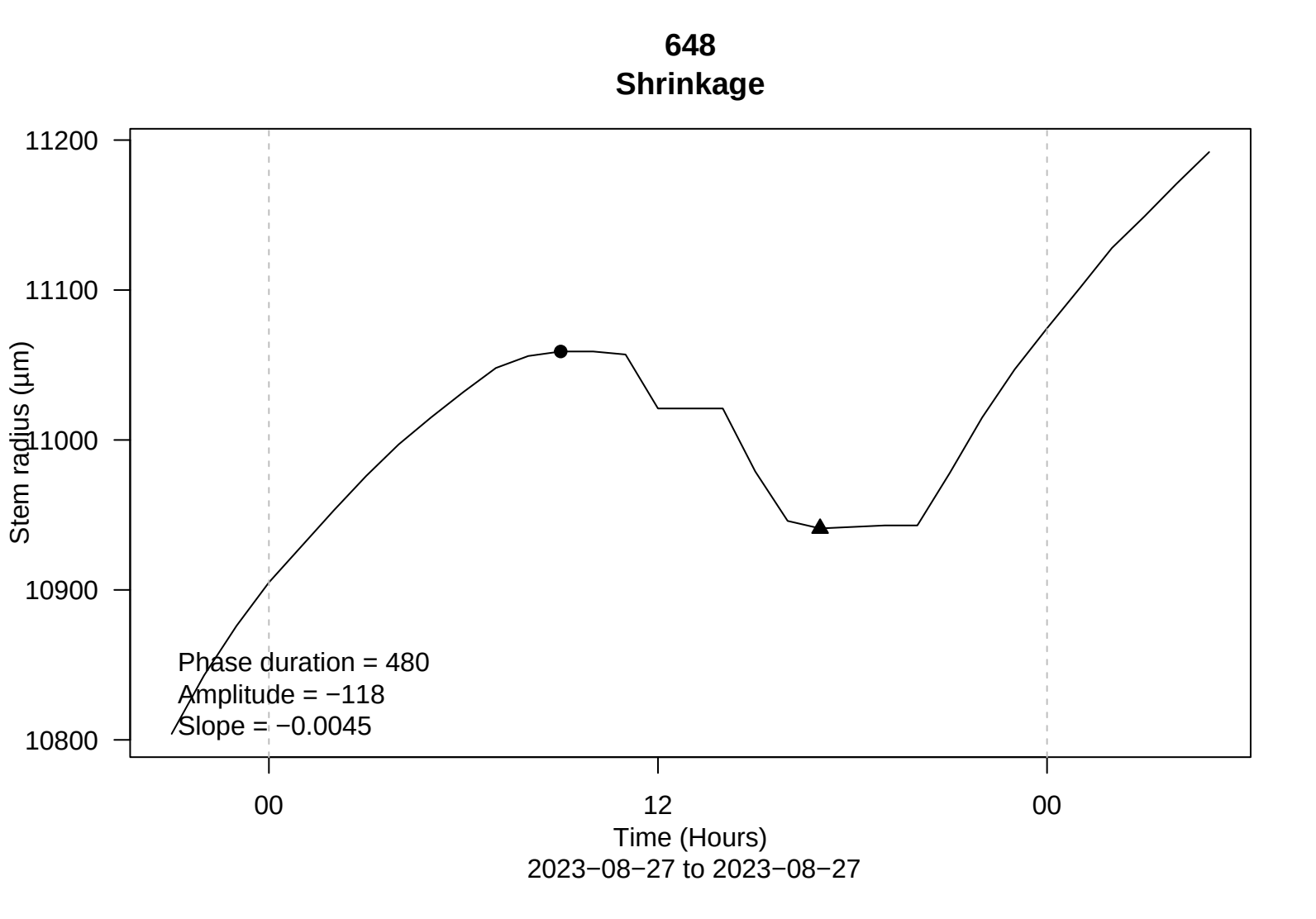

648
Expansion
10950
10900
10850
10800
10750
10700
Stem radius (µm)
12
00
12
Time (Hours)
2023−08−24 to 2023−08−25
Phase duration = 900
Amplitude = 246
Slope = 0.0053

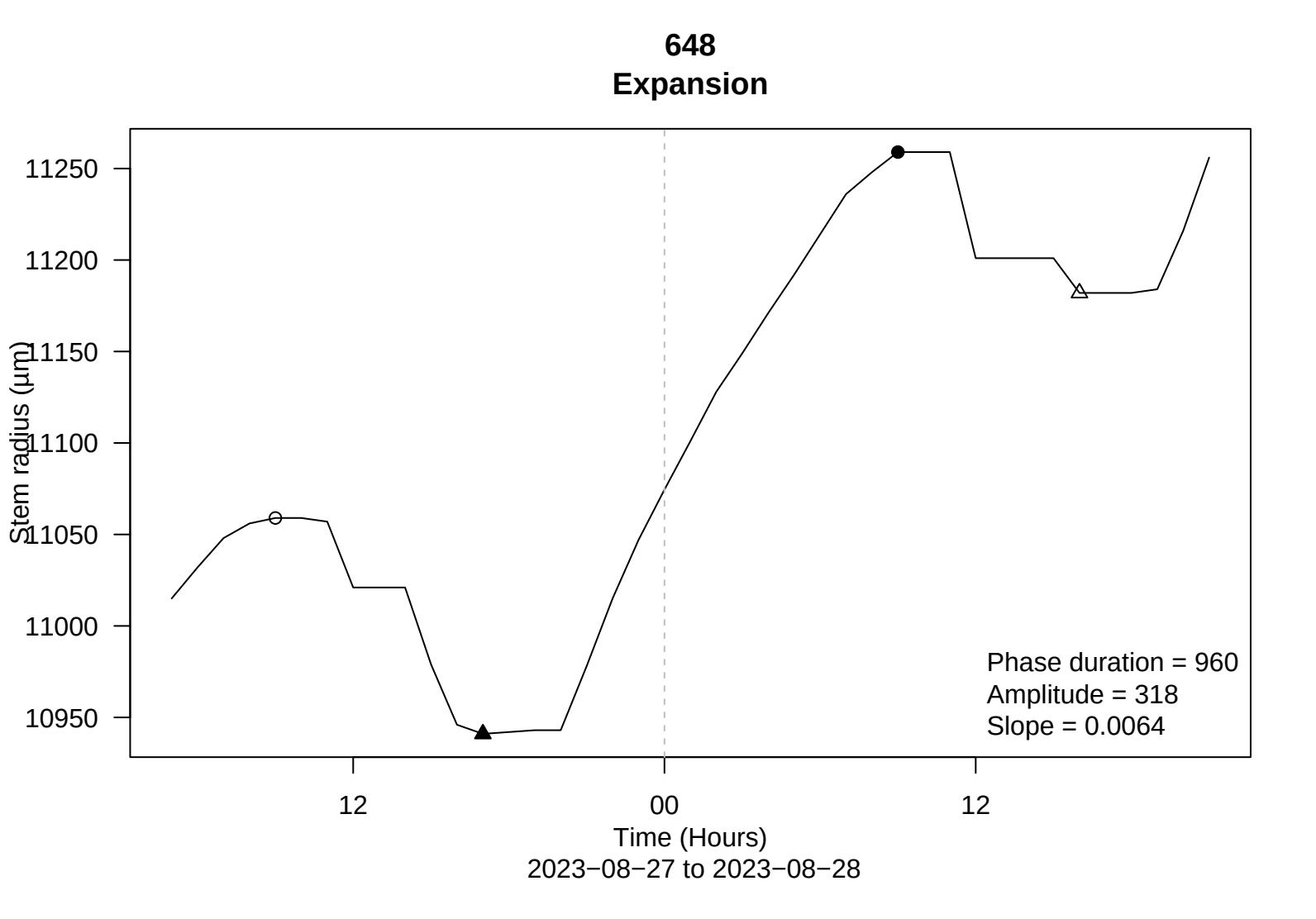

648
Shrinkage
11000
10950
10900
10850
10800
10750
10700
Stem radius (µm)
Phase duration = 600
Amplitude = −169
Slope = −0.0046
00
12
00
Time (Hours)
2023−08−25 to 2023−08−25

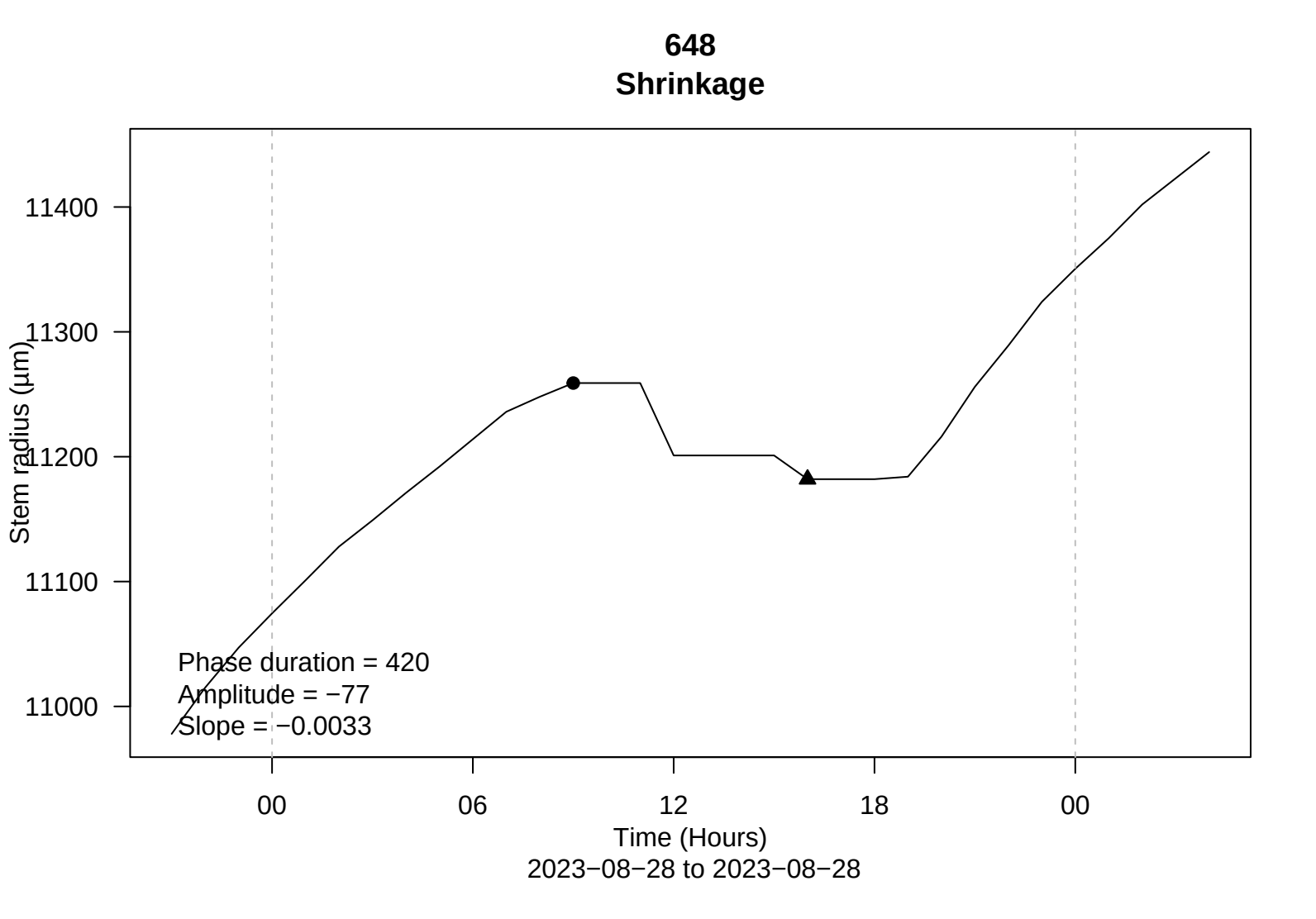

648
Expansion
11050
11000
10950
10900
10850
10800
10750
Stem radius (µm)
Phase duration = 900
Amplitude = 284
Slope = 0.0061
12
00
12
Time (Hours)
2023−08−25 to 2023−08−26

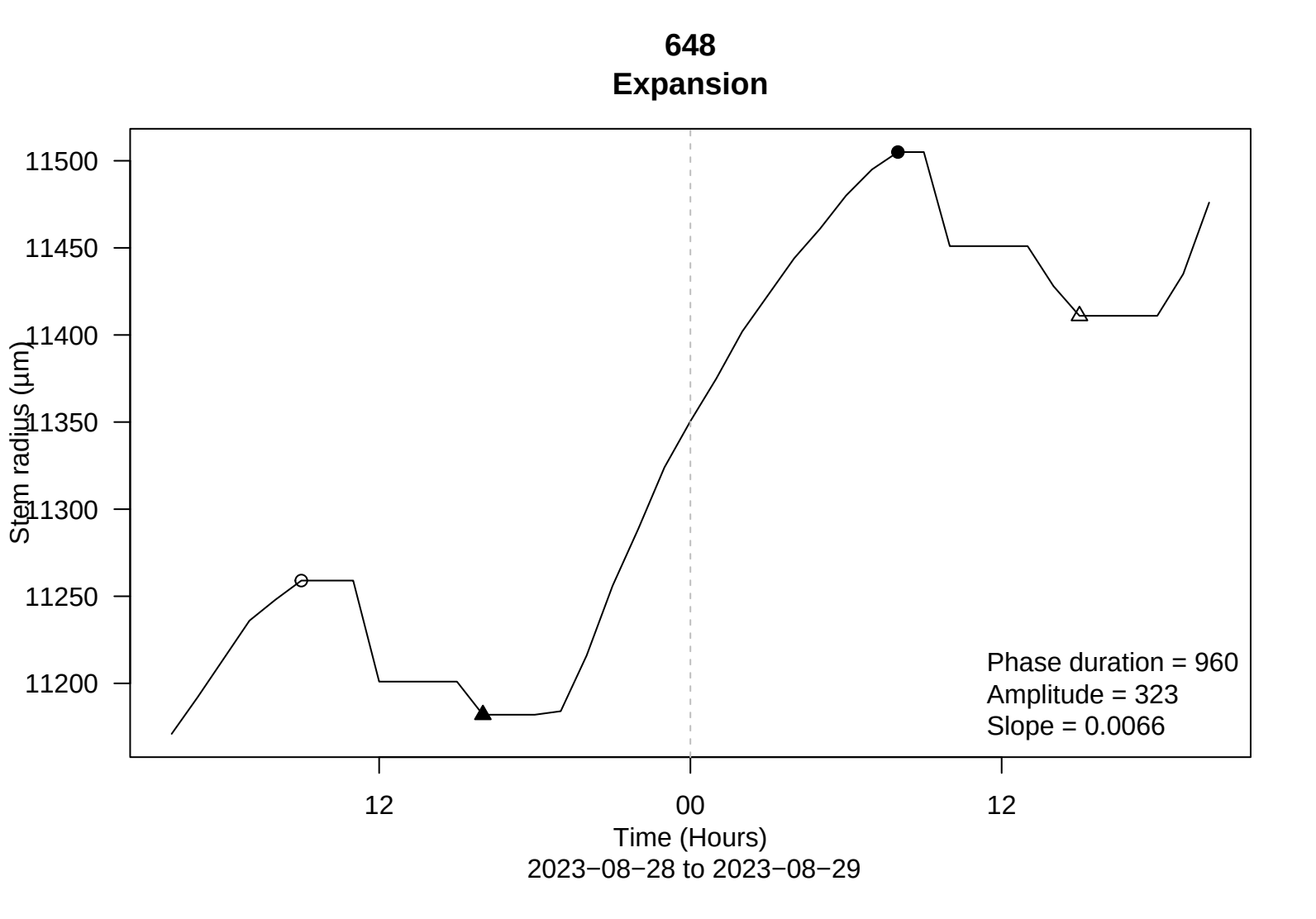

648
Shrinkage
11050
11000
10950
10900
10850
10800
10750
Stem radius (µm)
Phase duration = 540
Amplitude = −313
Slope = −0.0114
00
12
00
Time (Hours)
2023−08−26 to 2023−08−26

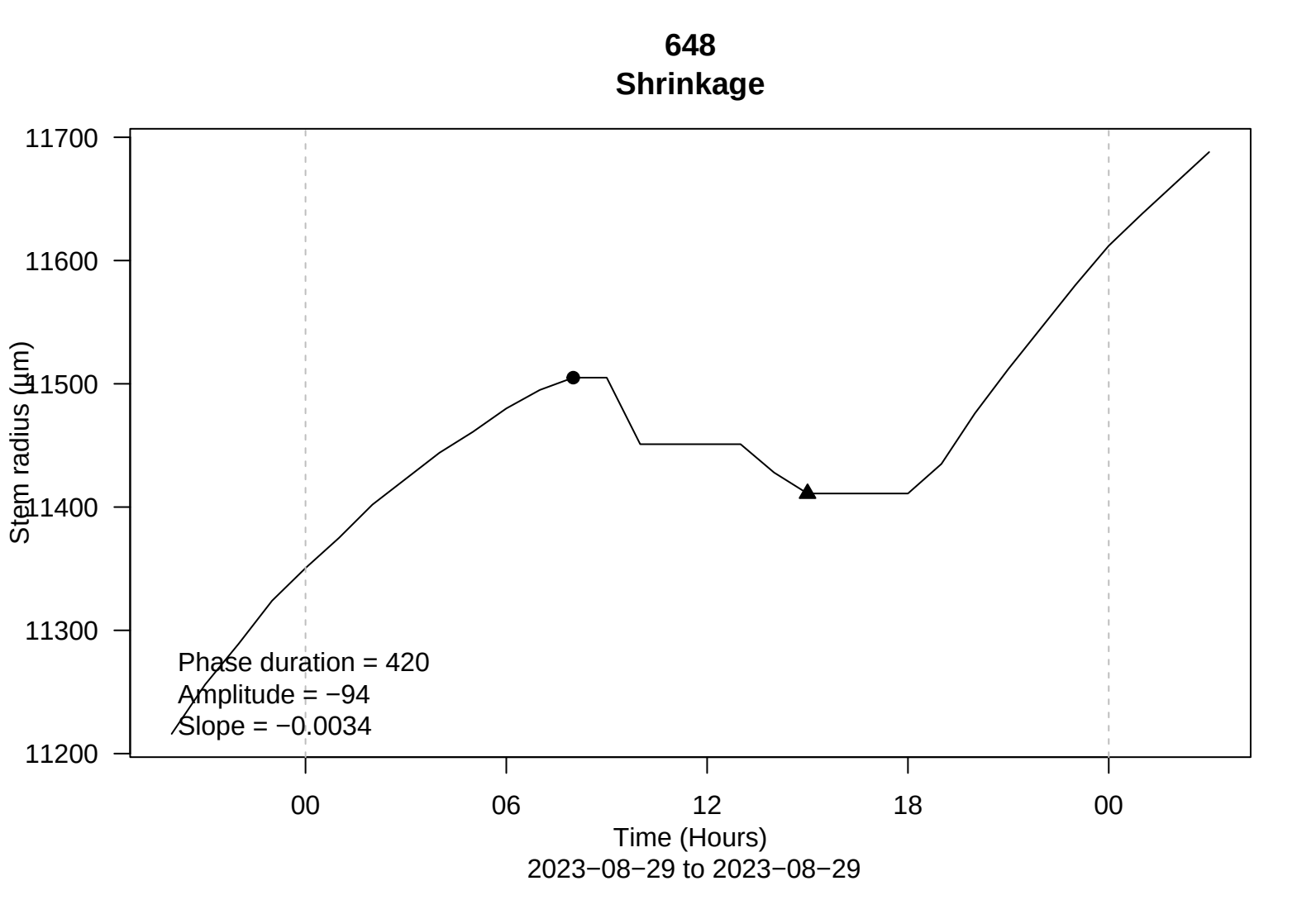

648
Expansion
11050
11000
10950
10900
10850
10800
10750
Stem radius (µm)
Phase duration = 960
Amplitude = 306
Slope = 0.0063
12
00
12
Time (Hours)
2023−08−26 to 2023−08−27

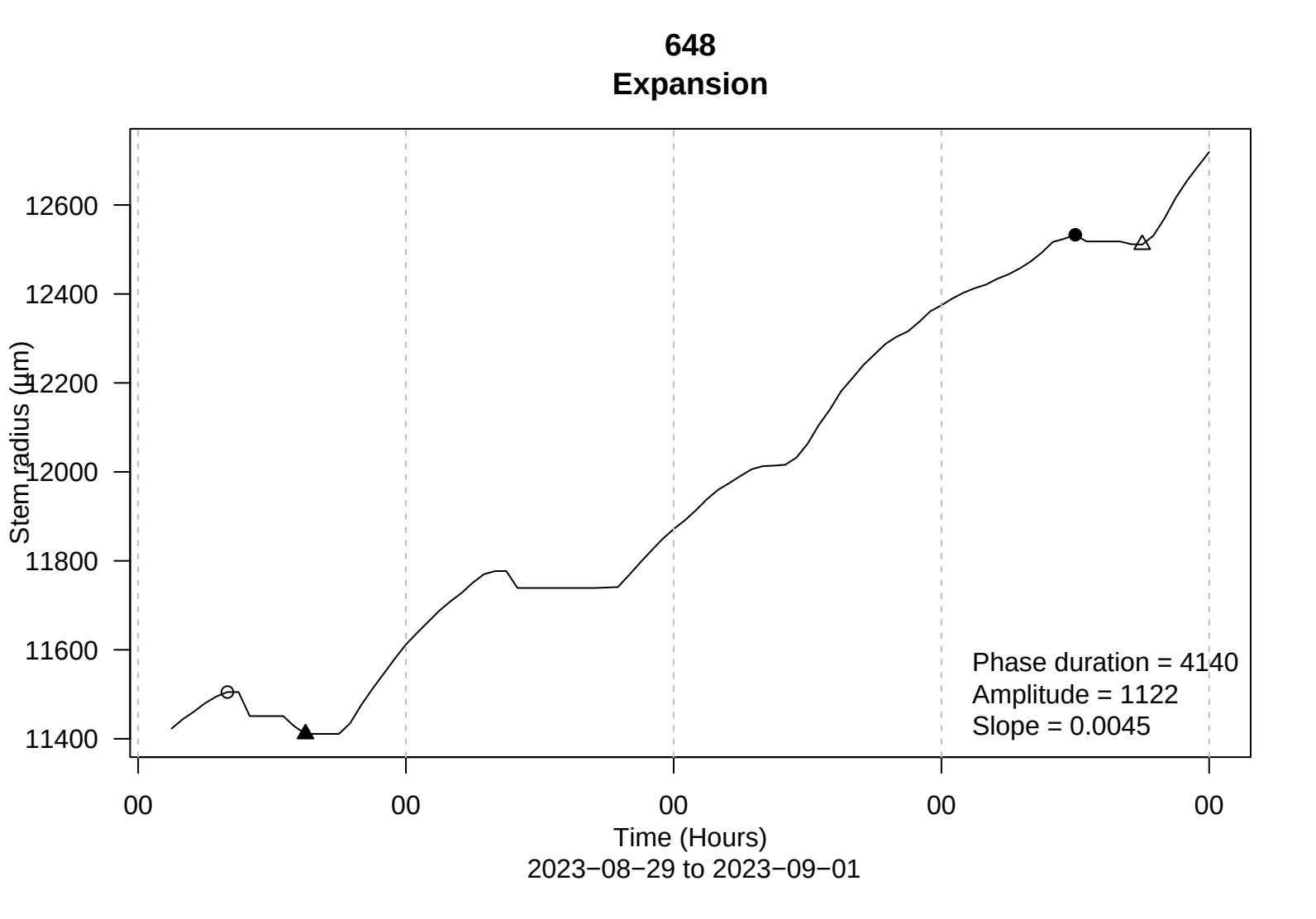

648
Shrinkage
11200
11100
11000
10900
10800
Stem radius (µm)
Phase duration = 480
Amplitude = −118
Slope = −0.0045
00
12
00
Time (Hours)
2023−08−27 to 2023−08−27

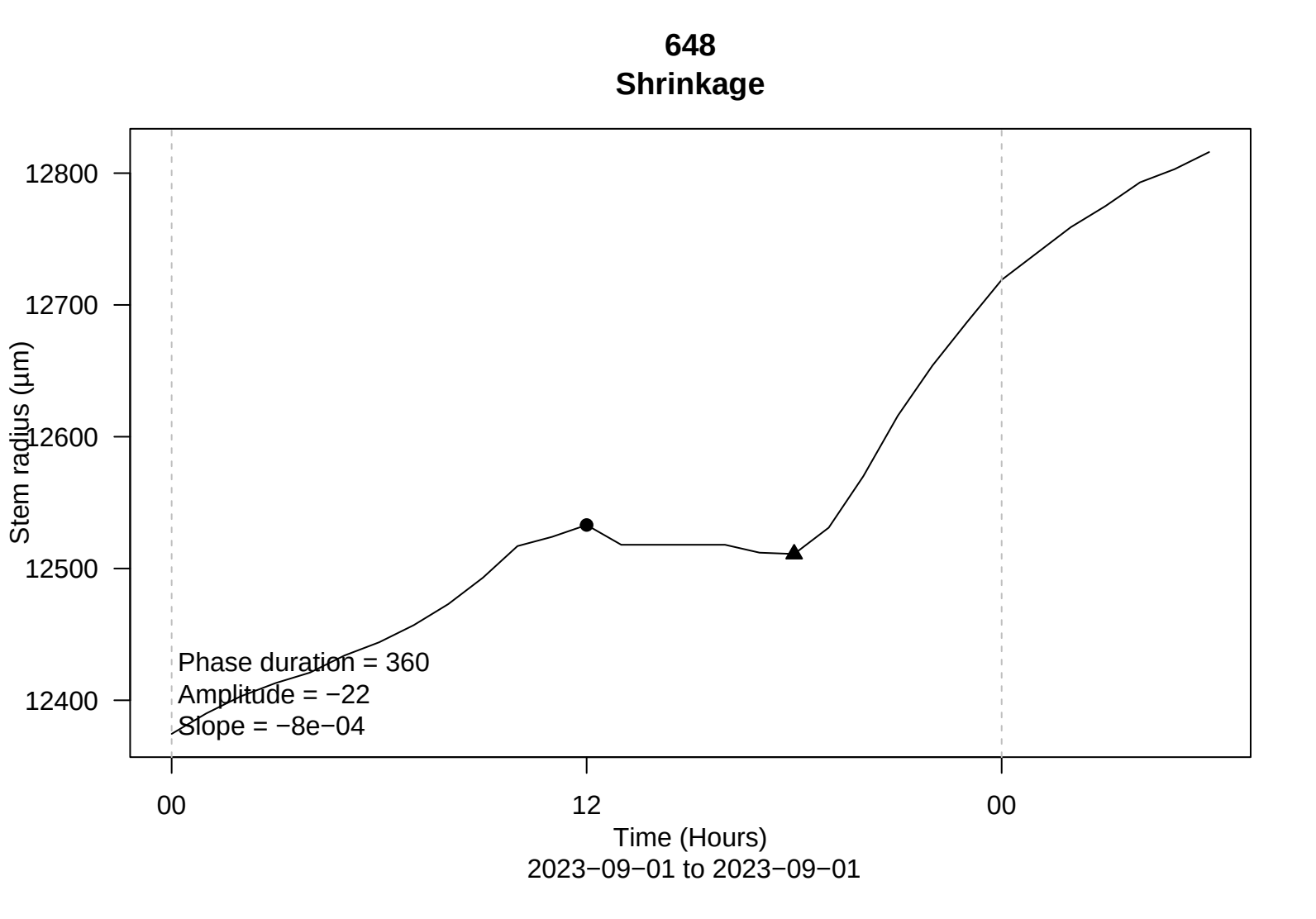

648
Expansion
11250
11200
11150
11100
11050
11000
10950
Stem radius (µm)
Phase duration = 960
Amplitude = 318
Slope = 0.0064
12
00
12
Time (Hours)
2023−08−27 to 2023−08−28

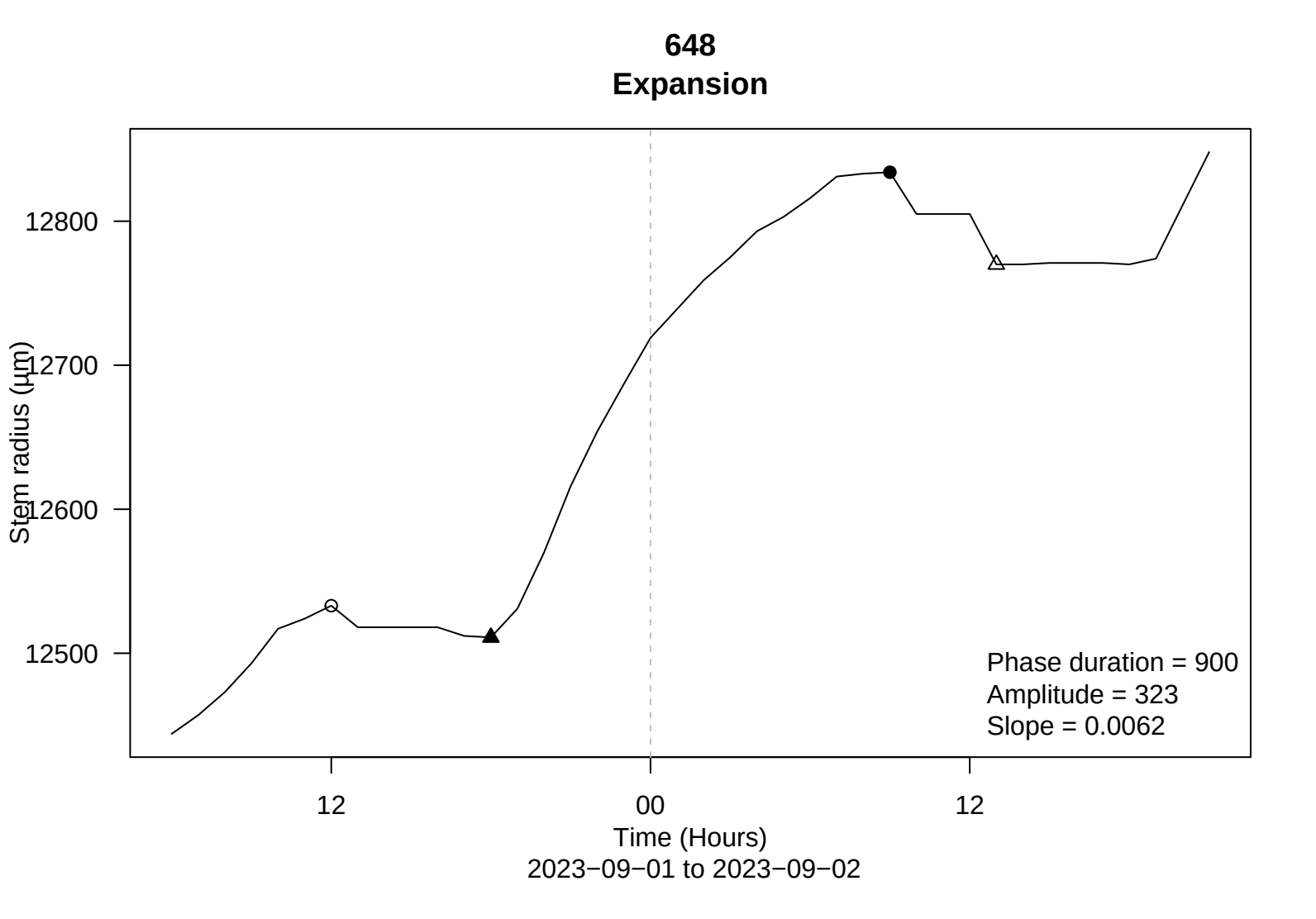

648
Shrinkage
11400
11300
11200
11100
11000
Stem radius (µm)
Phase duration = 420
Amplitude = −77
Slope = −0.0033
00
06
12
18
00
Time (Hours)
2023−08−28 to 2023−08−28

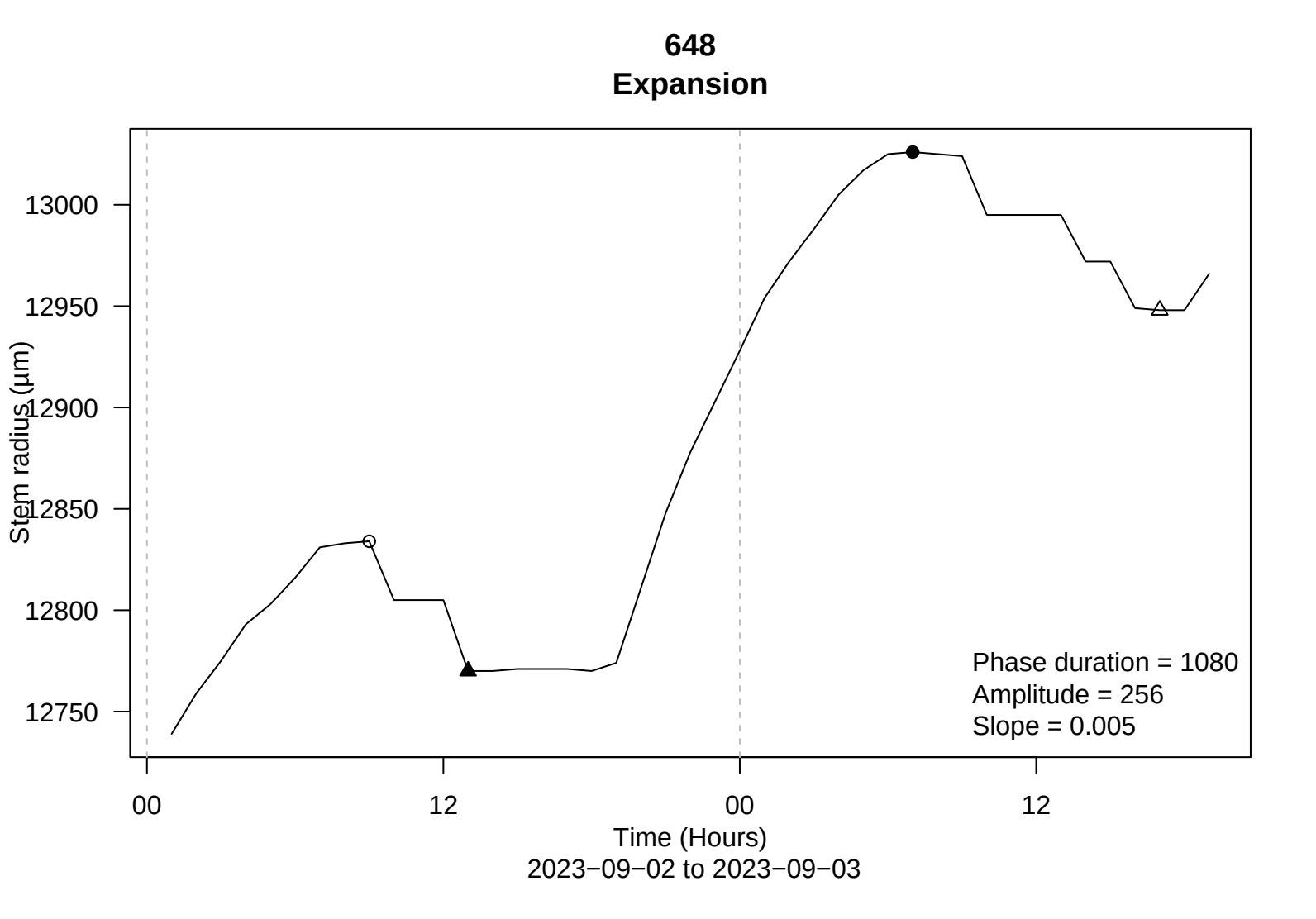

648
Expansion
11500
11450
11400
11350
11300
11250
11200
Stem radius (µm)
Phase duration = 960
Amplitude = 323
Slope = 0.0066
12
00
12
Time (Hours)
2023−08−28 to 2023−08−29

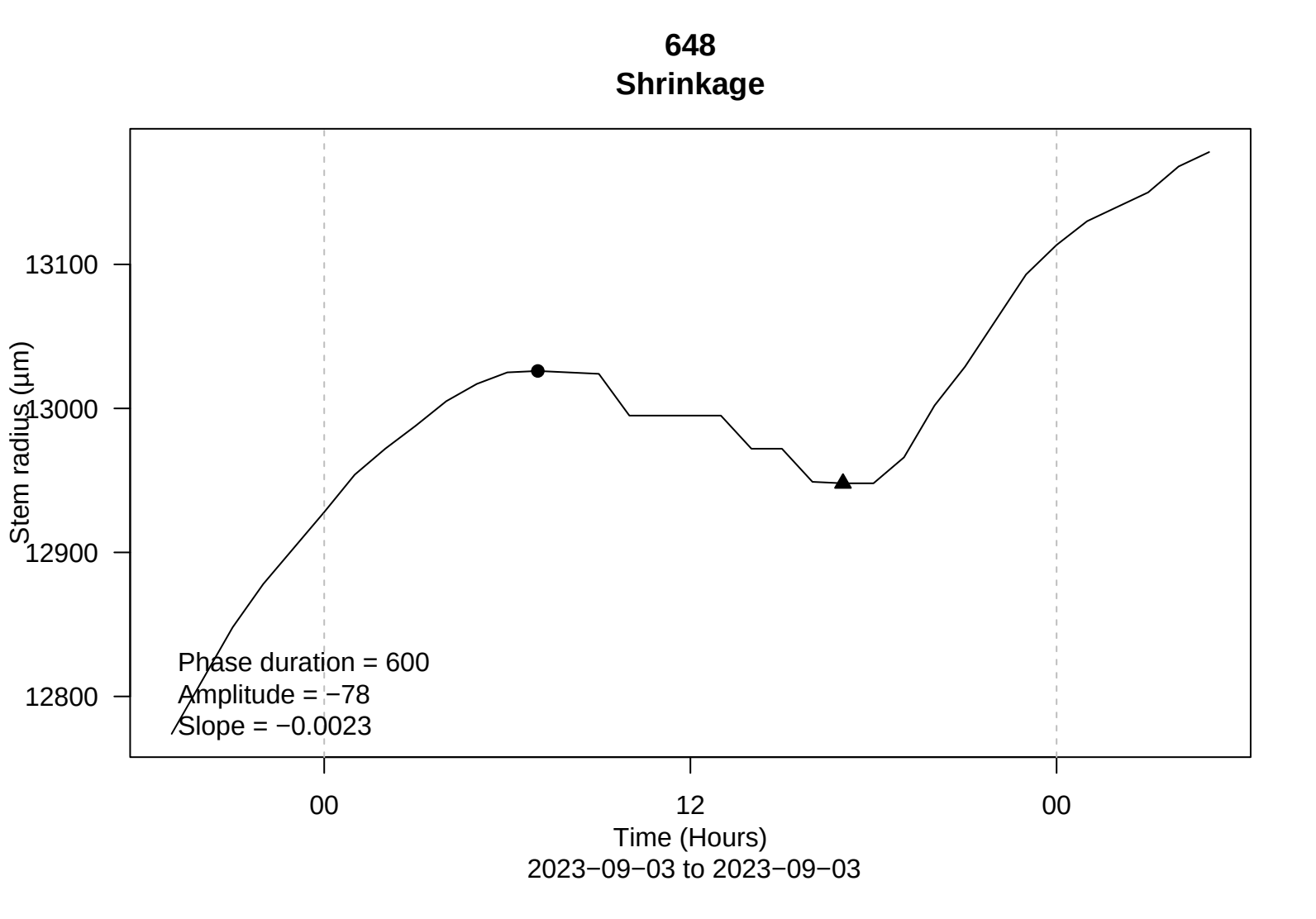

648
Shrinkage
11700
11600
11500
11400
11300
11200
Stem radius (µm)
Phase duration = 420
Amplitude = −94
Slope = −0.0034
00
06
12
18
00
Time (Hours)
2023−08−29 to 2023−08−29

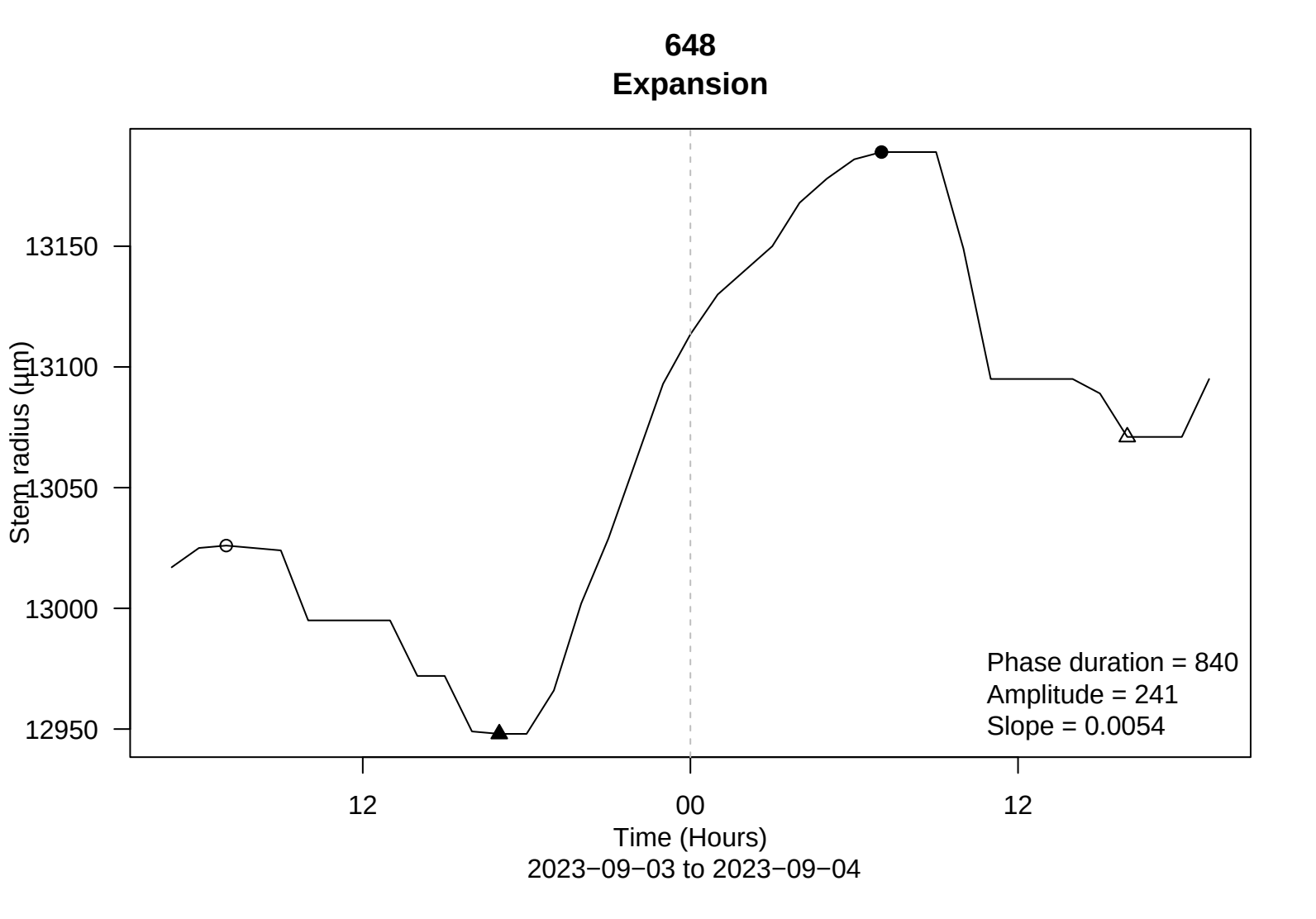

648
Expansion
12600
12400
12200
12000
11800
11600
11400
Stem radius (µm)
Phase duration = 4140
Amplitude = 1122
Slope = 0.0045
00
00
00
00
00
Time (Hours)
2023−08−29 to 2023−09−01

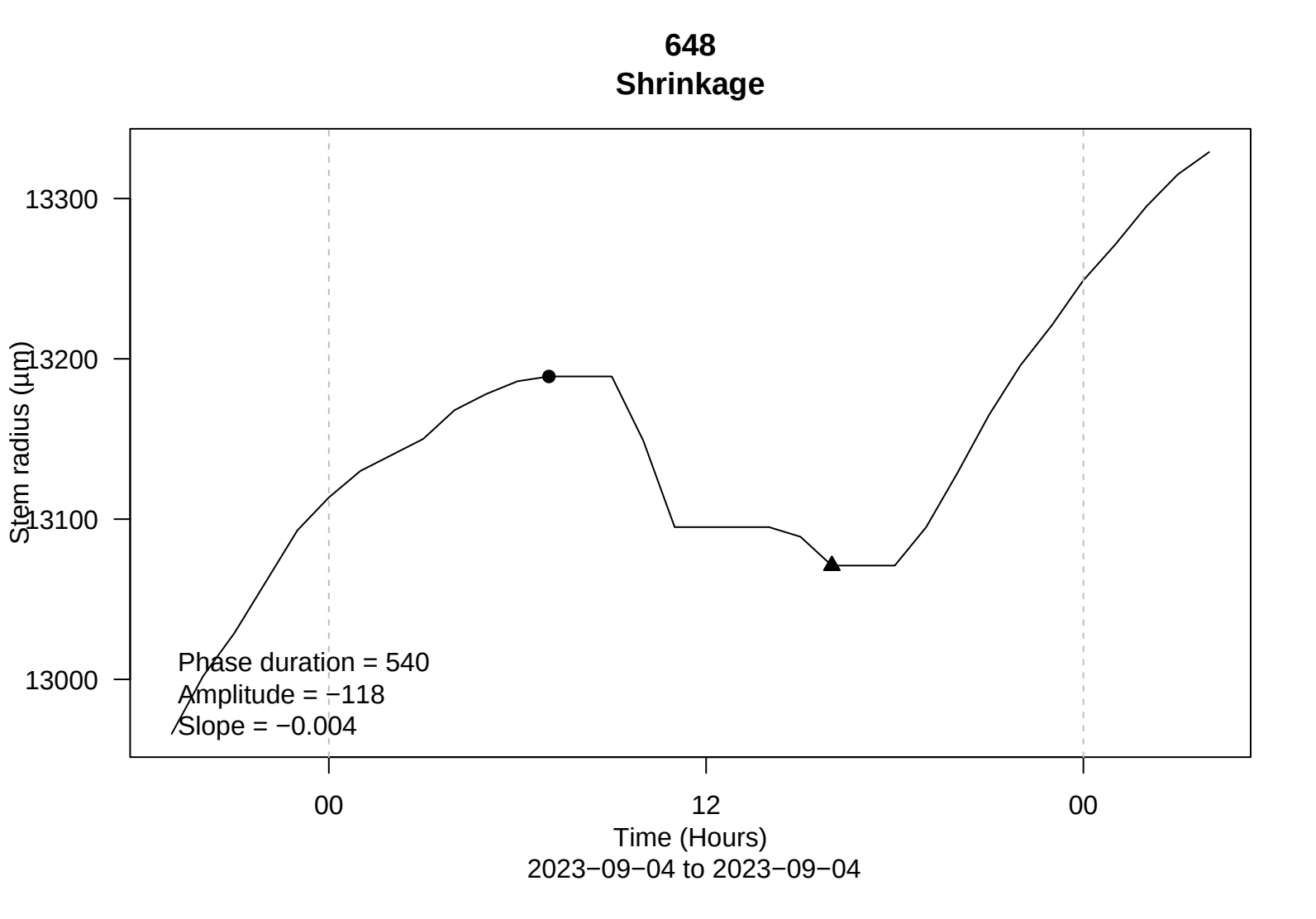

648
Shrinkage
12800
12700
12600
12500
12400
Stem radius (µm)
Phase duration = 360
Amplitude = −22
Slope = −8e−04
00
12
00
Time (Hours)
2023−09−01 to 2023−09−01

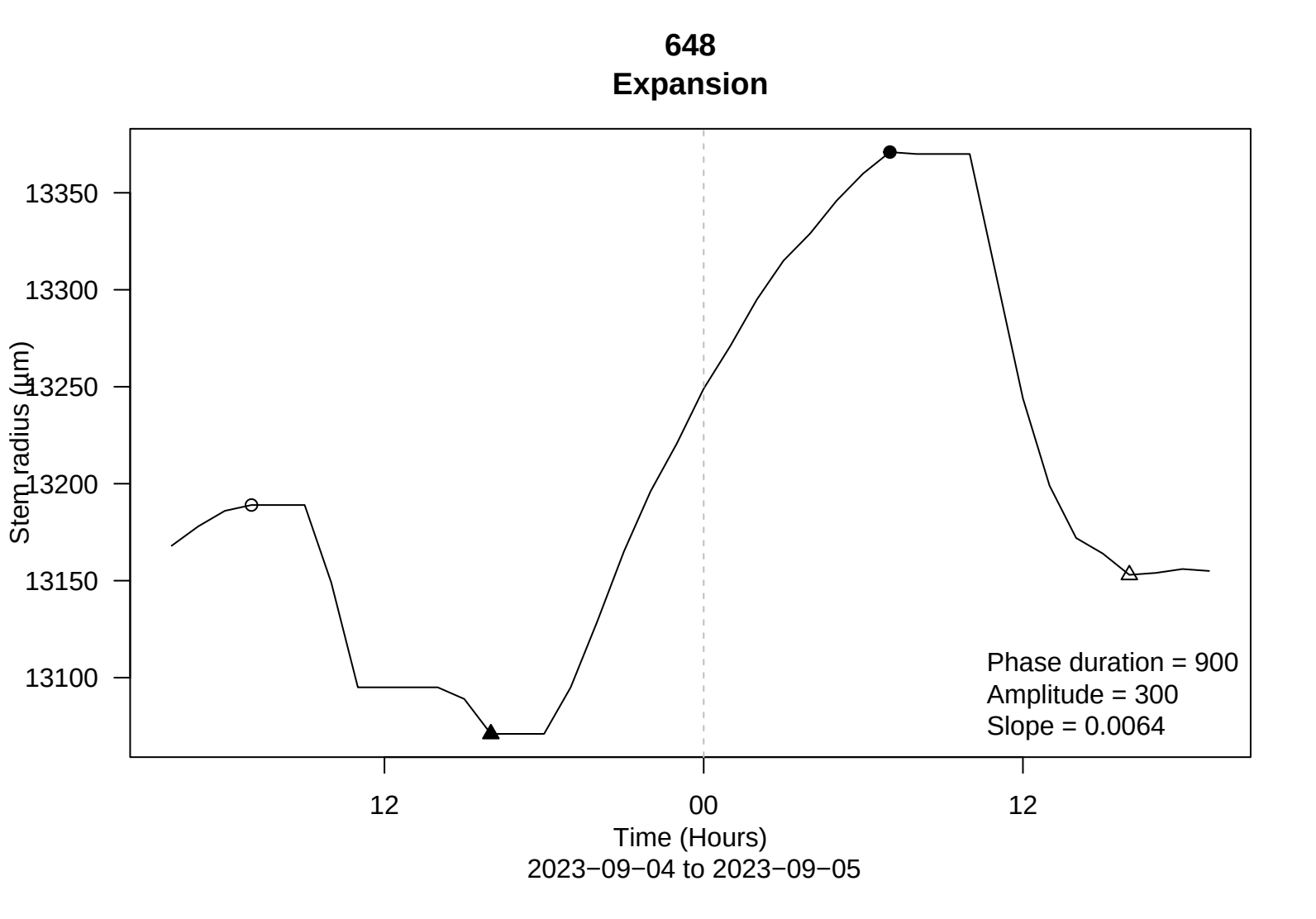

648
Expansion
12800
12700
12600
12500
Stem radius (µm)
Phase duration = 900
Amplitude = 323
Slope = 0.0062
12
00
12
Time (Hours)
2023−09−01 to 2023−09−02

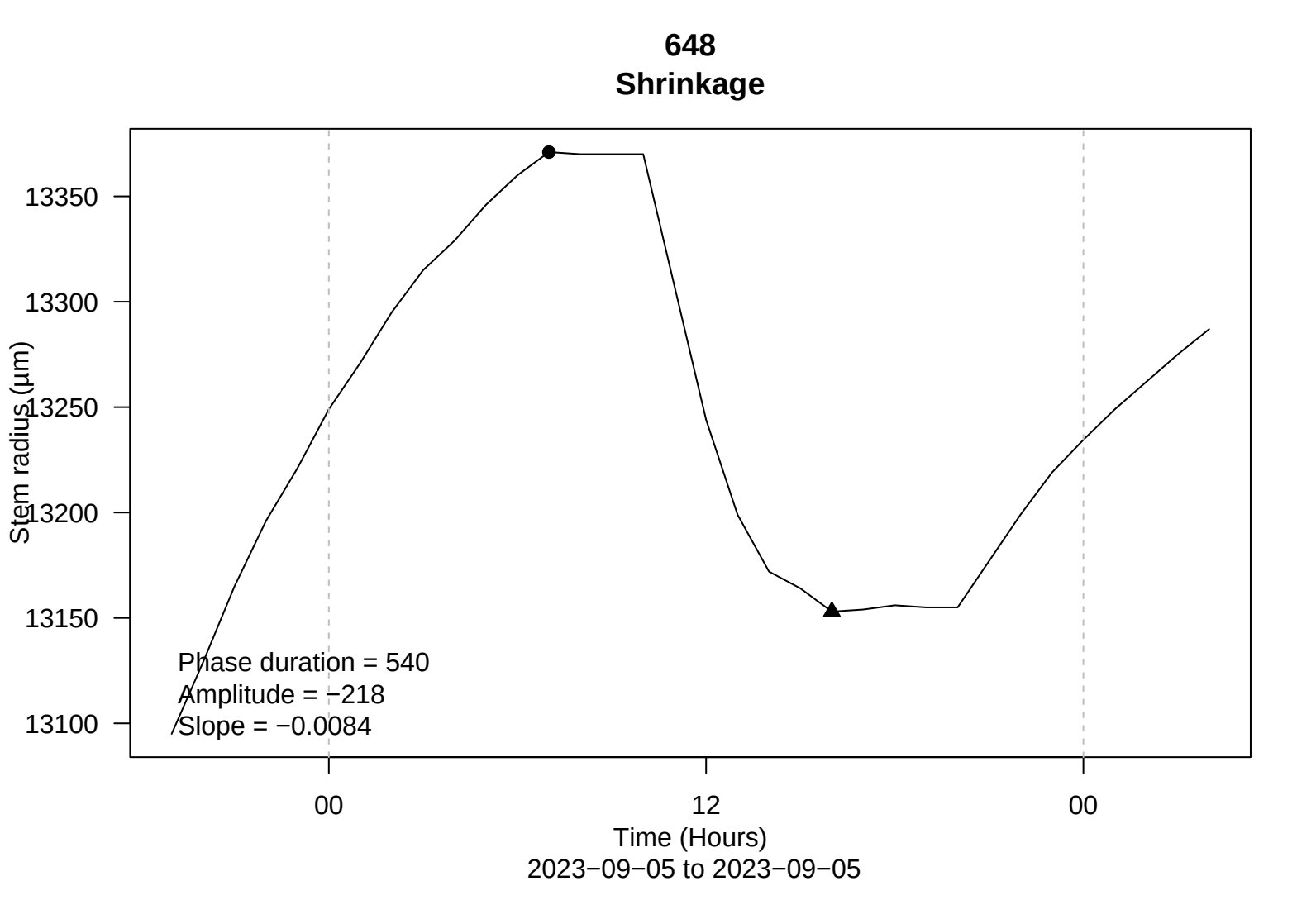

648
Expansion
13000
12950
12900
12850
12800
12750
Stem radius (µm)
Phase duration = 1080
Amplitude = 256
Slope = 0.005
00
12
00
12
Time (Hours)
2023−09−02 to 2023−09−03

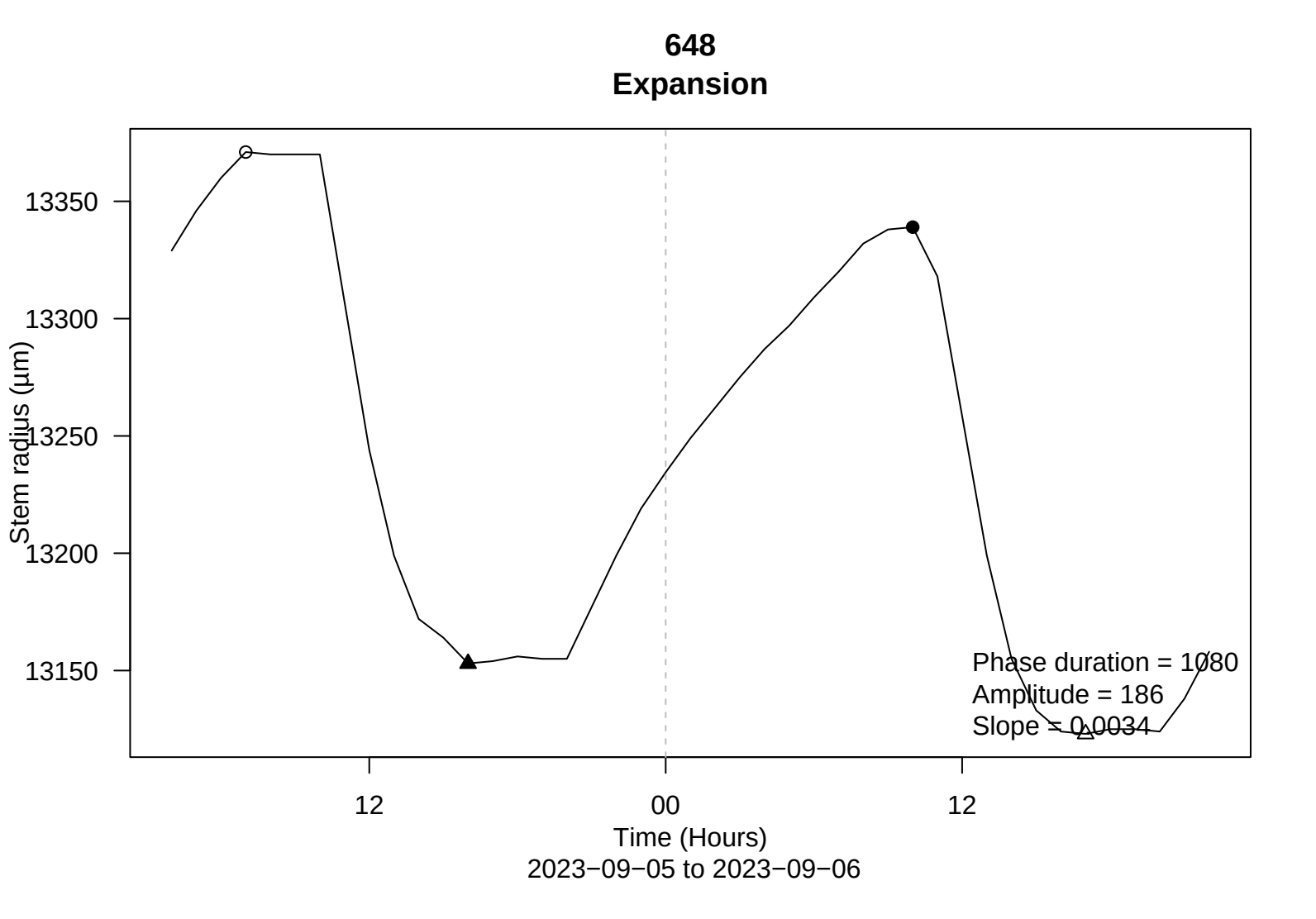

648
Shrinkage
13100
13000
12900
12800
Stem radius (µm)
Phase duration = 600
Amplitude = −78
Slope = −0.0023
00
12
00
Time (Hours)
2023−09−03 to 2023−09−03

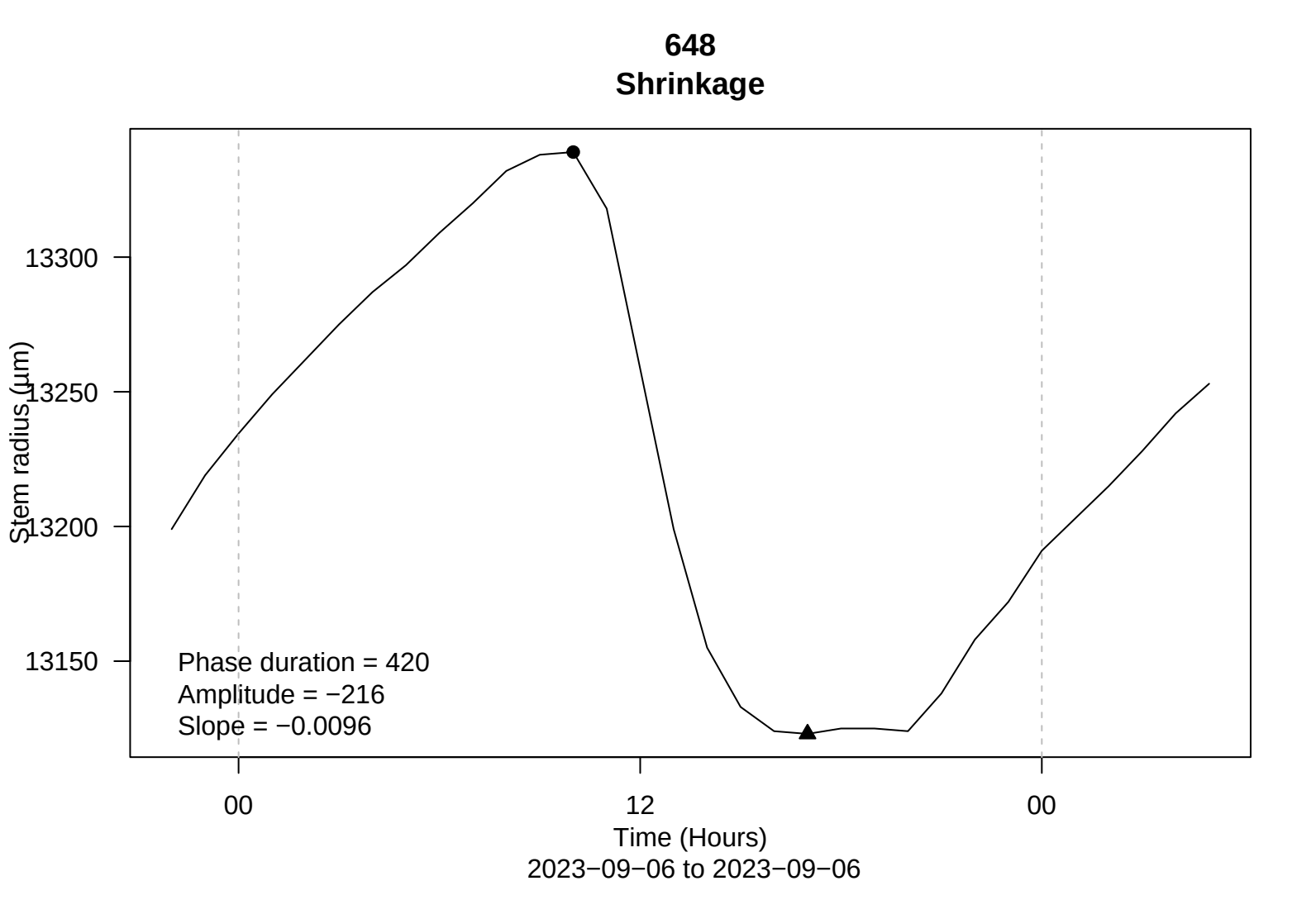

648
Expansion
13150
13100
13050
13000
12950
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−03 to 2023−09−04
Phase duration = 840
Amplitude = 241
Slope = 0.0054

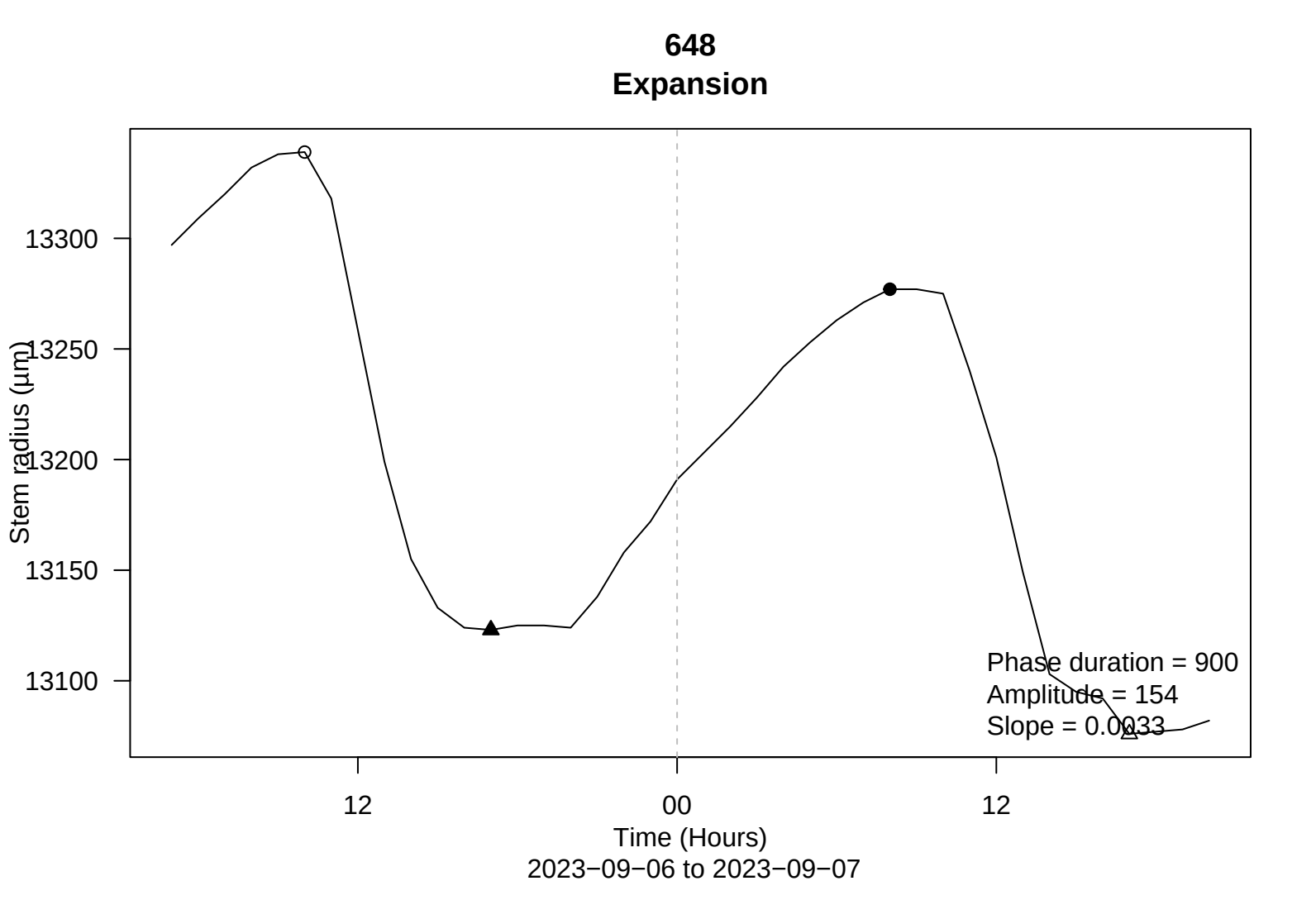

648
Shrinkage
13300
13200
13100
13000
Stem radius (µm)
Phase duration = 540
Amplitude = −118
Slope = −0.004
00
12
00
Time (Hours)
2023−09−04 to 2023−09−04

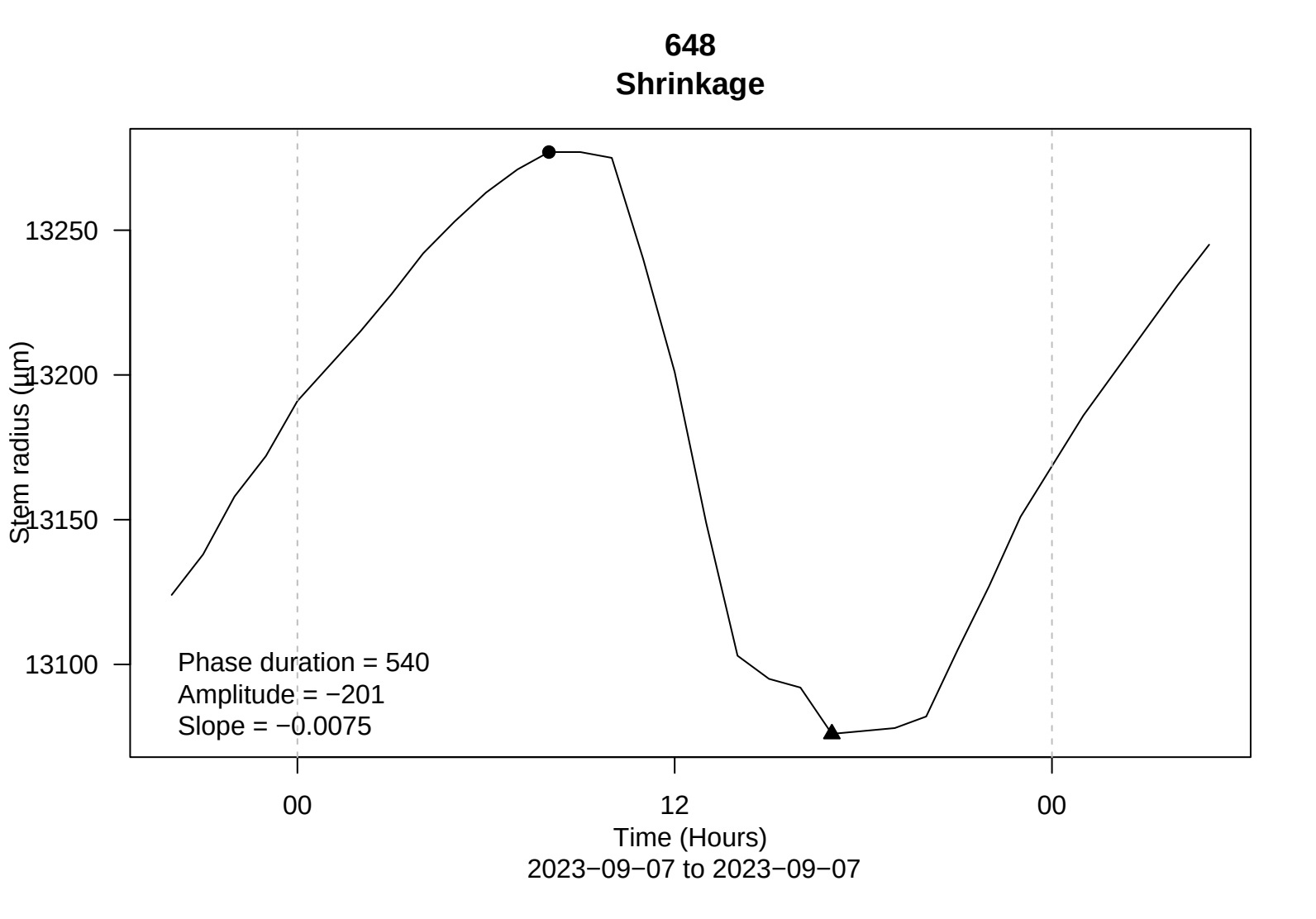

648
Expansion
13350
13300
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 900
Amplitude = 300
Slope = 0.0064
12
00
12
Time (Hours)
2023−09−04 to 2023−09−05

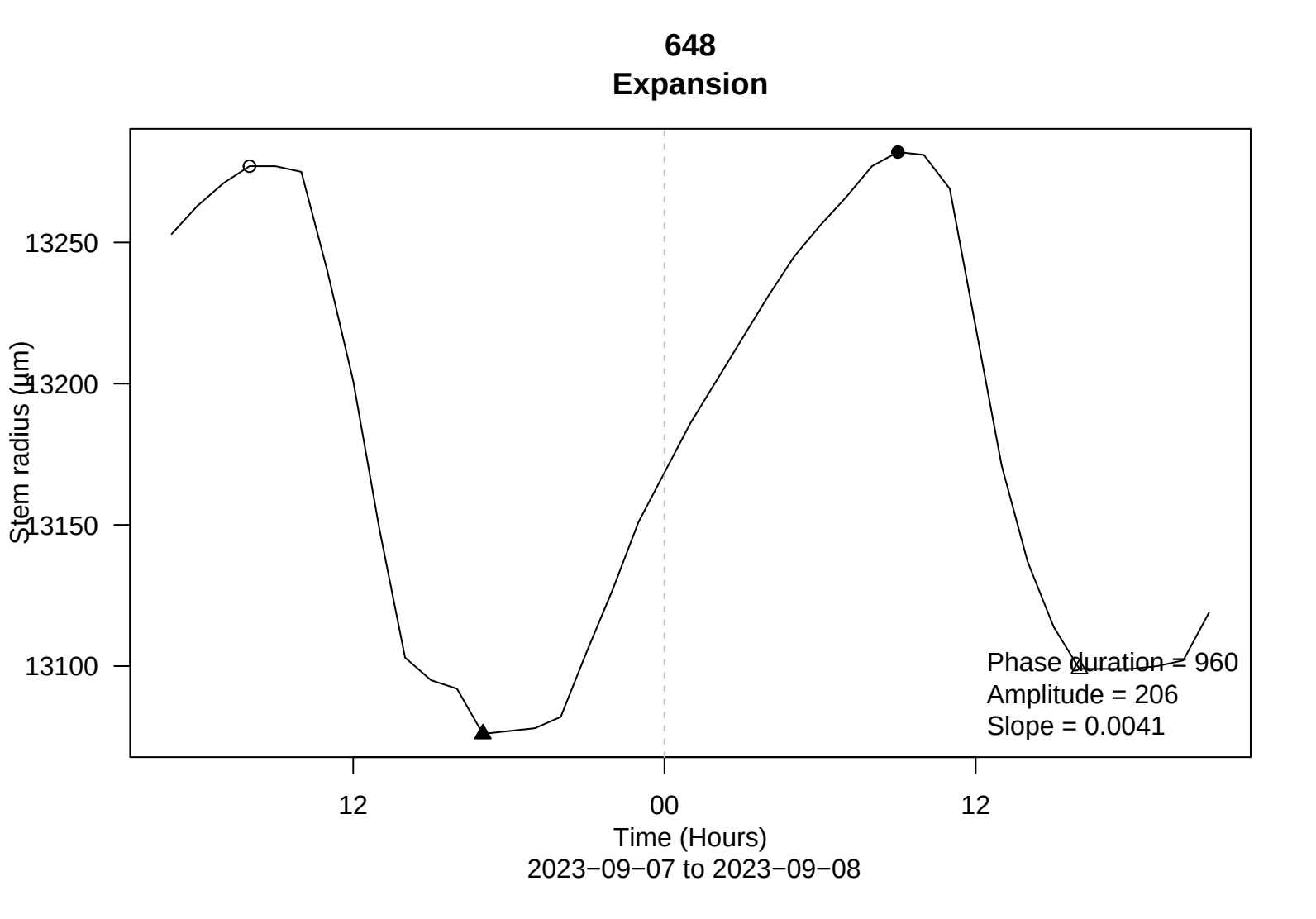

648
Shrinkage
13350
13300
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 540
Amplitude = −218
Slope = −0.0084
00
12
00
Time (Hours)
2023−09−05 to 2023−09−05

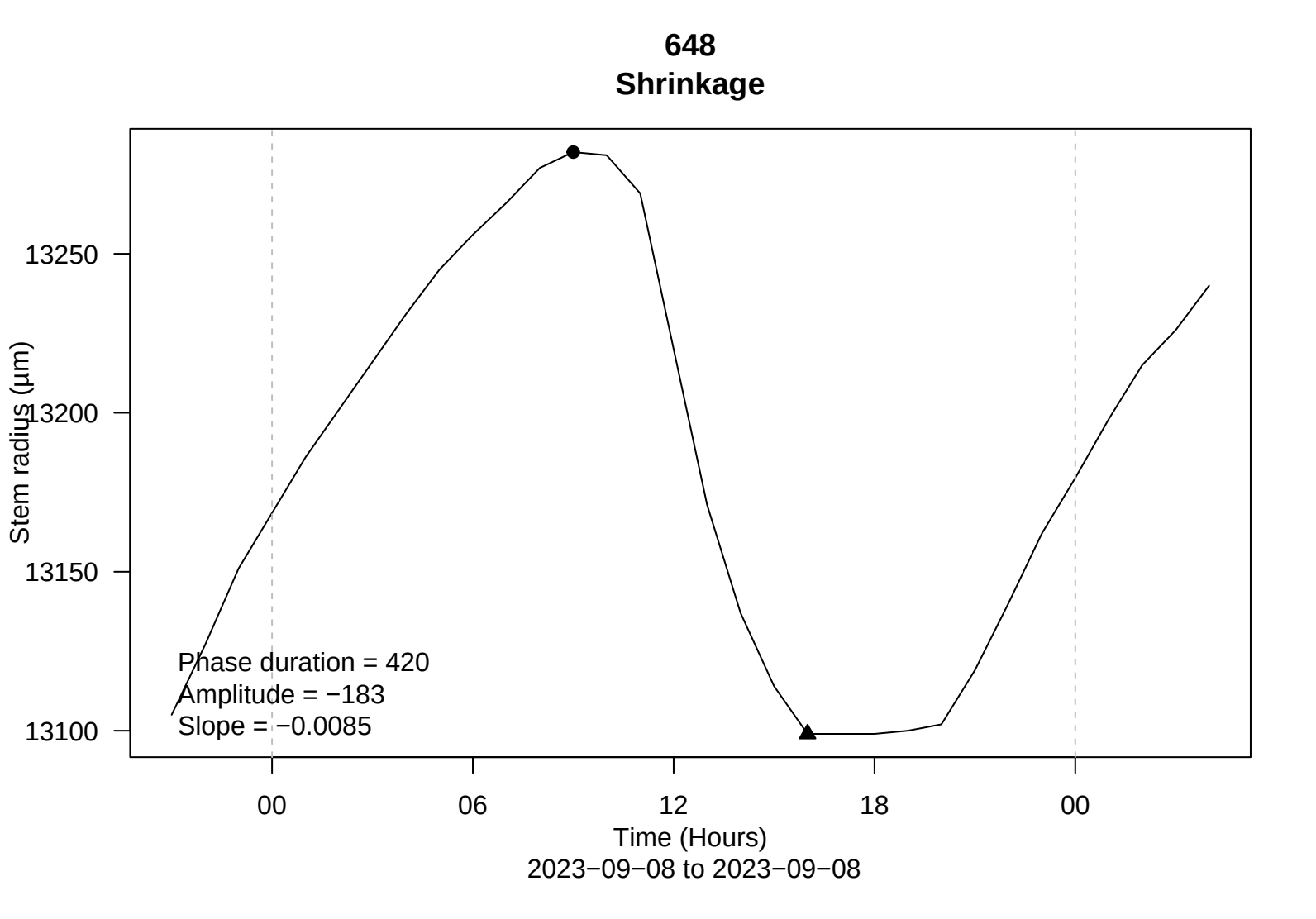

648
Expansion
13350
13300
13250
13200
13150
Stem radius (µm)
Phase duration = 1080
Amplitude = 186
Slope = 0.0034
12
00
12
Time (Hours)
2023−09−05 to 2023−09−06

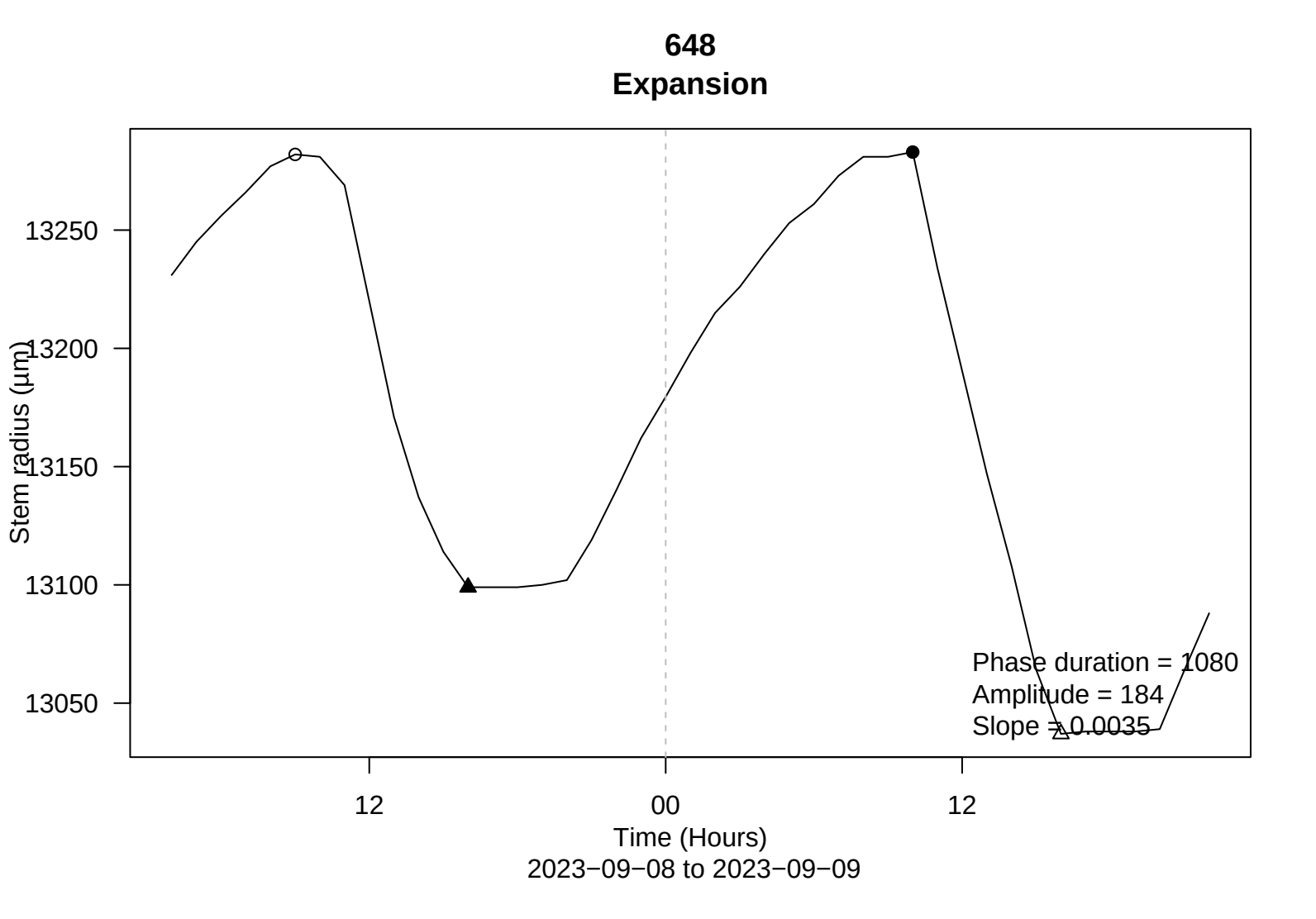

648
Shrinkage
13300
13250
13200
13150
Stem radius (µm)
Phase duration = 420
Amplitude = −216
Slope = −0.0096
00
12
00
Time (Hours)
2023−09−06 to 2023−09−06

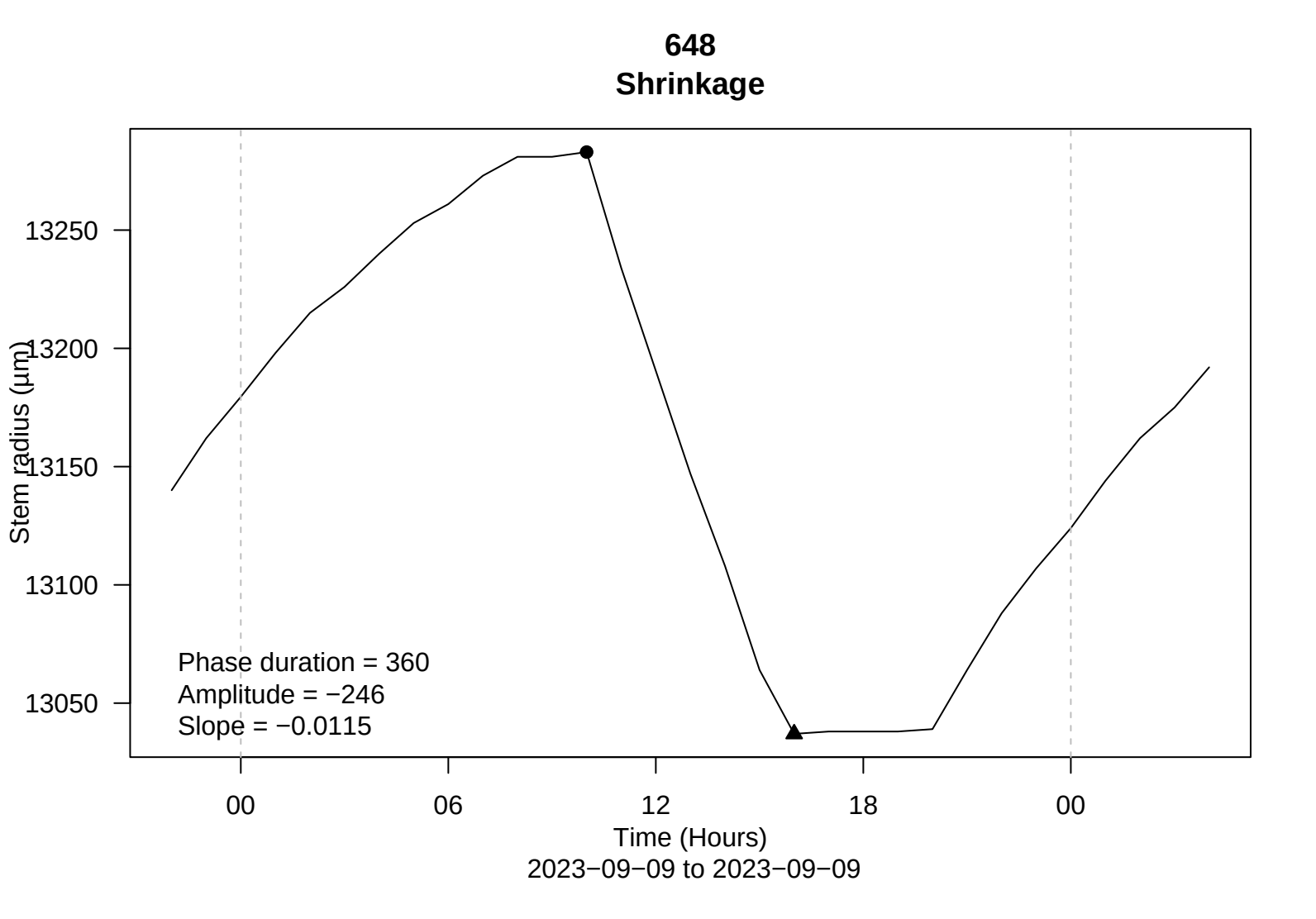

648
Expansion
13300
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 900
Amplitude = 154
Slope = 0.0033
12
00
12
Time (Hours)
2023−09−06 to 2023−09−07

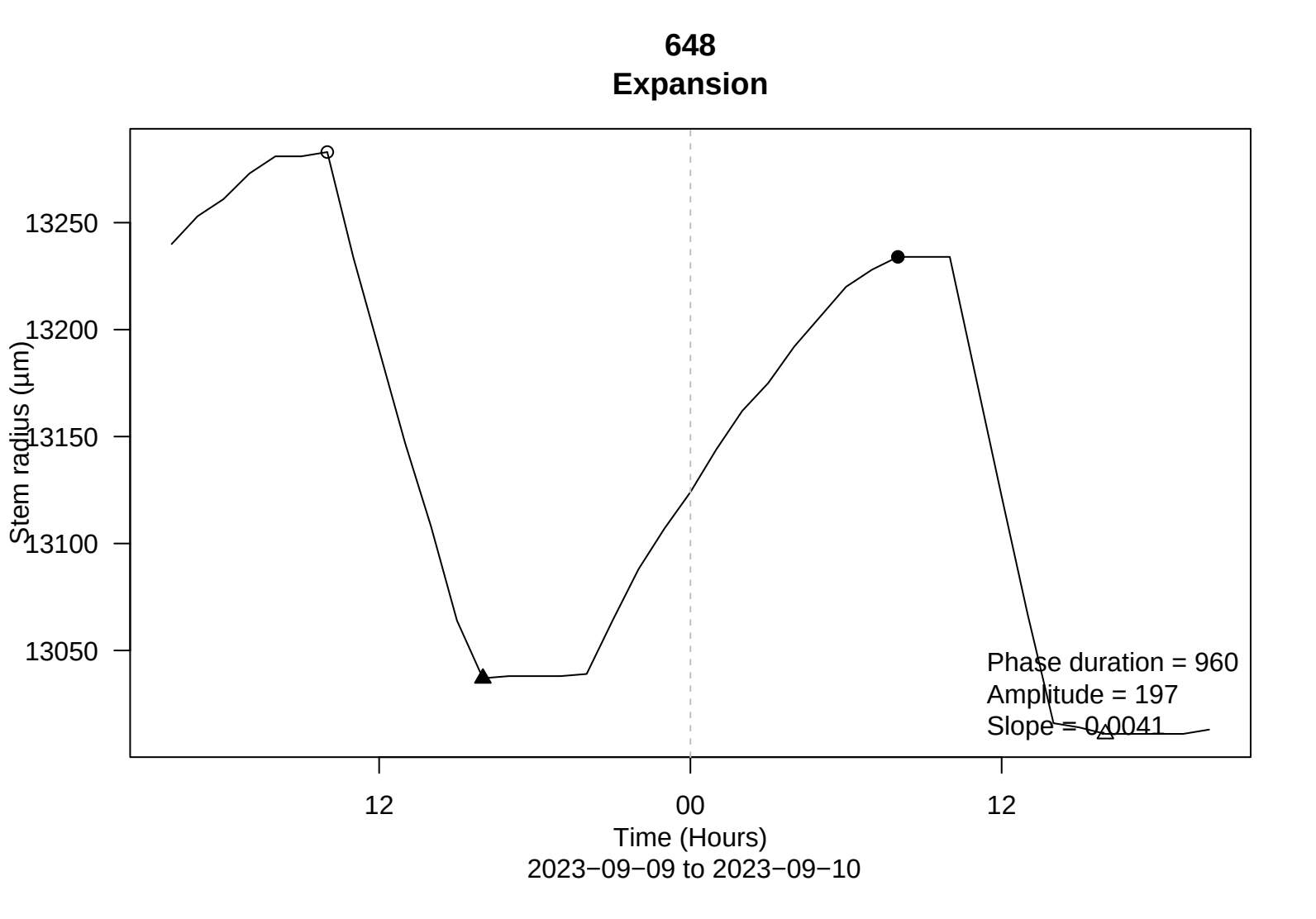

648
Shrinkage
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 540
Amplitude = −201
Slope = −0.0075
00
12
00
Time (Hours)
2023−09−07 to 2023−09−07

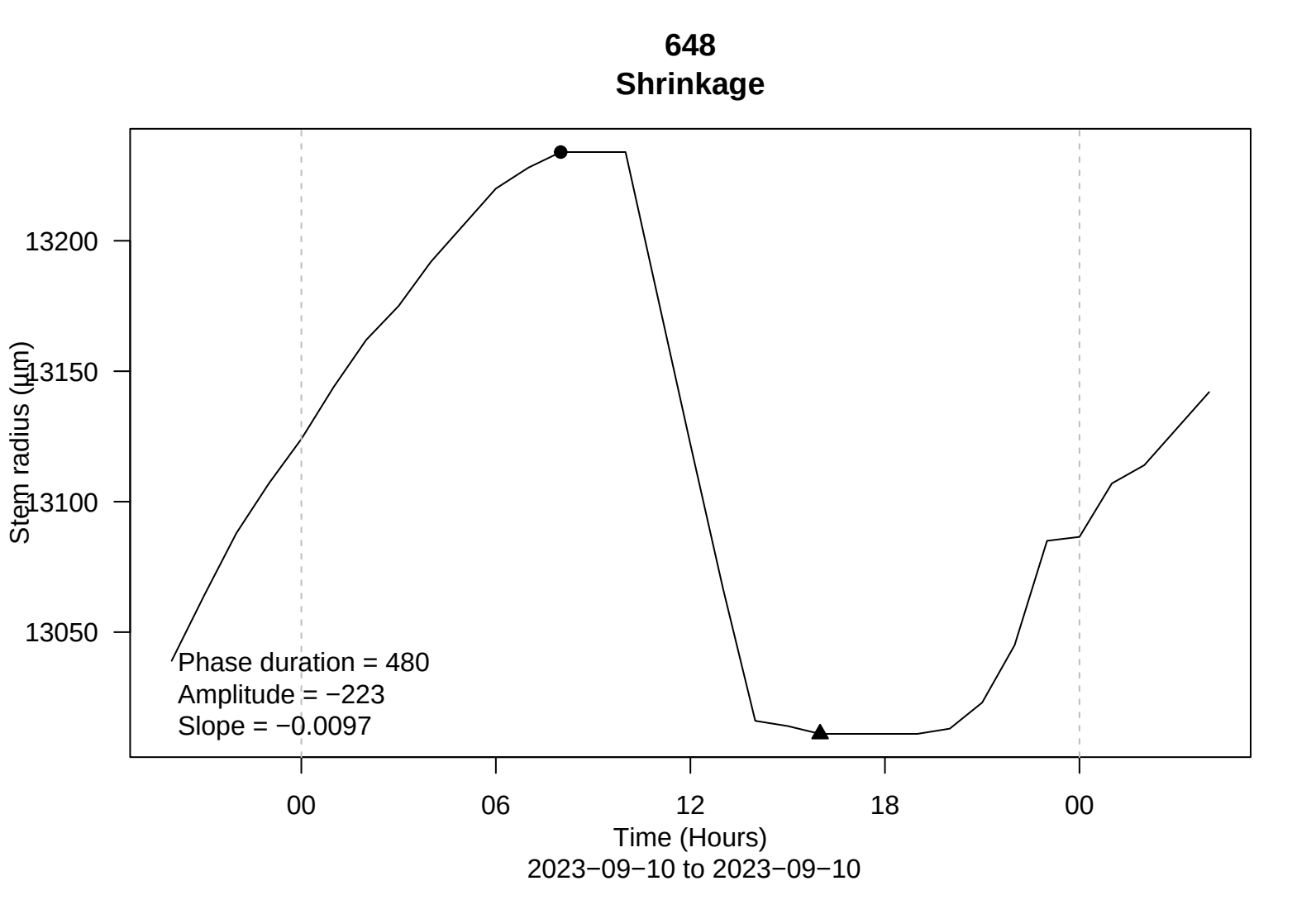

648
Expansion
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 960
Amplitude = 206
Slope = 0.0041
12
00
12
Time (Hours)
2023−09−07 to 2023−09−08

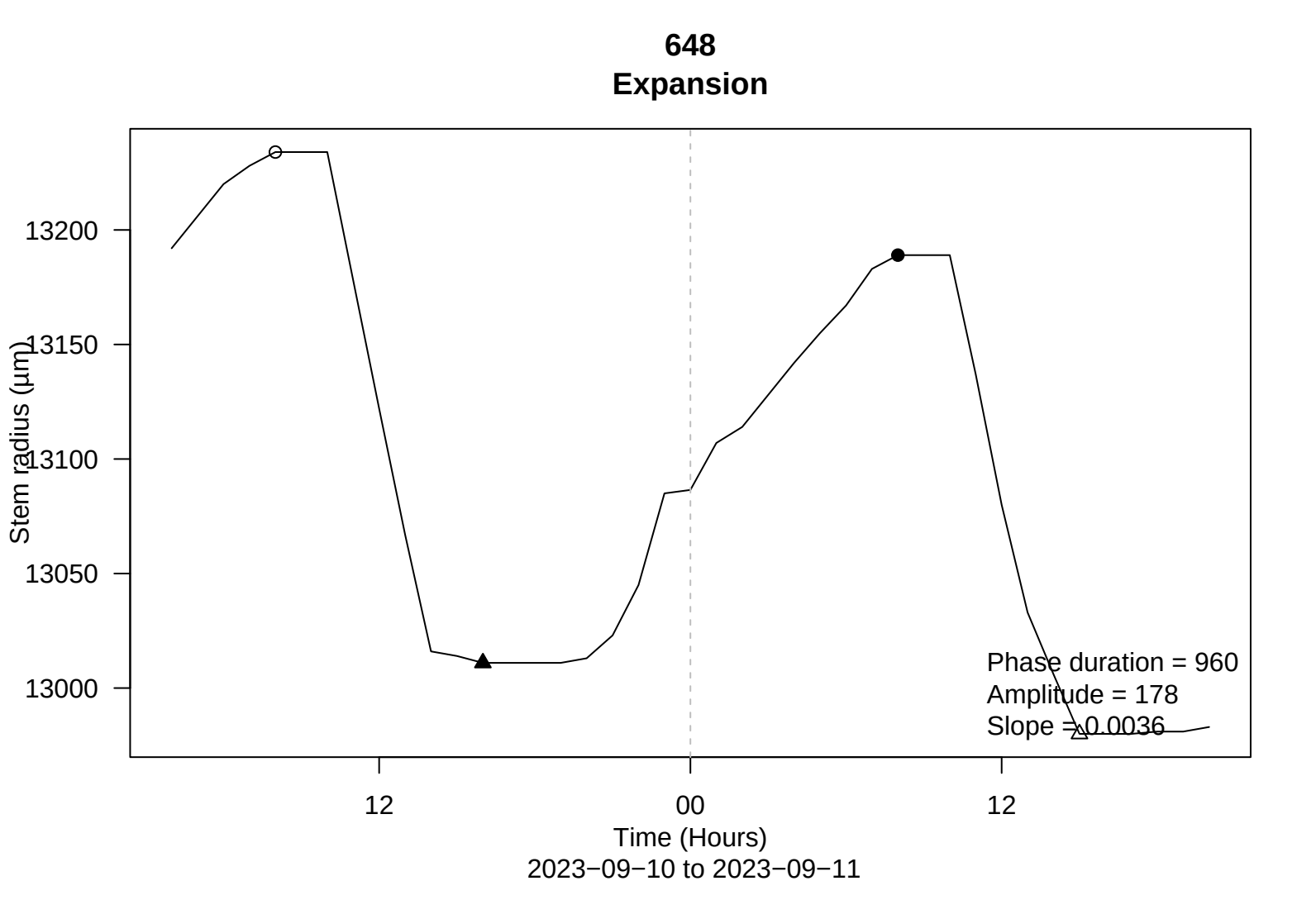

648
Shrinkage
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 420
Amplitude = −183
Slope = −0.0085
00
06
12
18
00
Time (Hours)
2023−09−08 to 2023−09−08

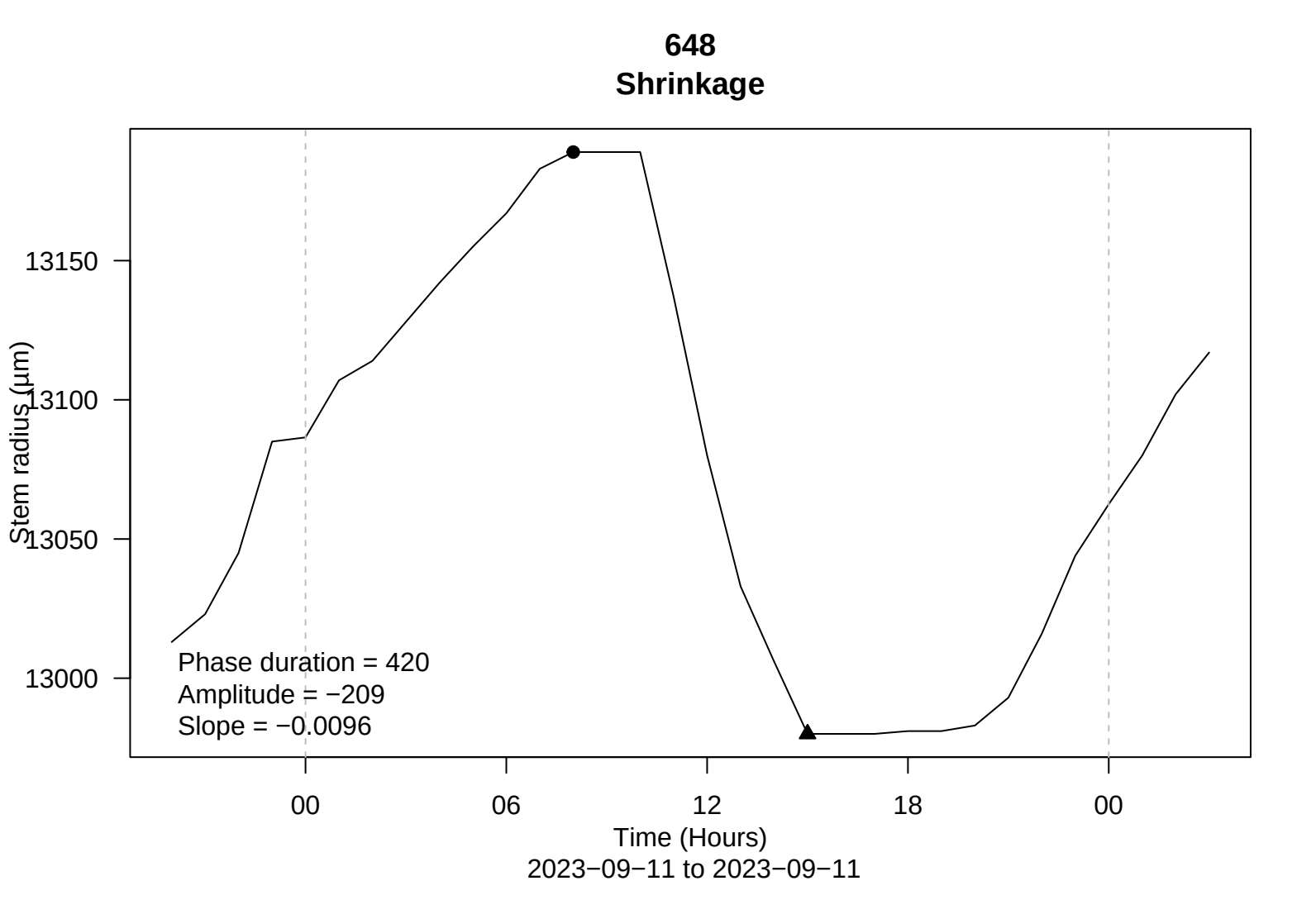

648
Expansion
13250
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 1080
Amplitude = 184
Slope = 0.0035
12
00
12
Time (Hours)
2023−09−08 to 2023−09−09

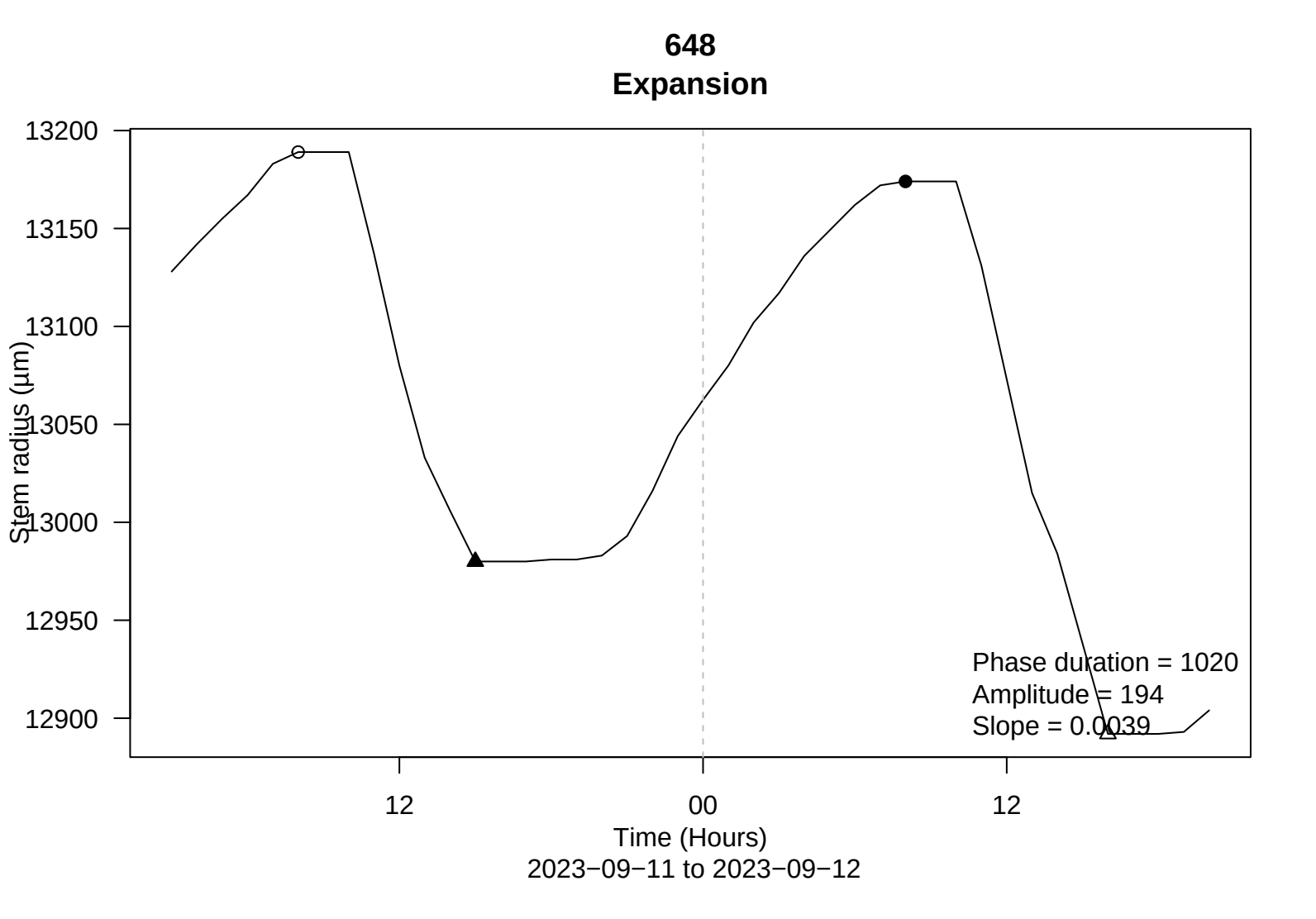

648
Shrinkage
13250
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 360
Amplitude = −246
Slope = −0.0115
00
06
12
18
00
Time (Hours)
2023−09−09 to 2023−09−09

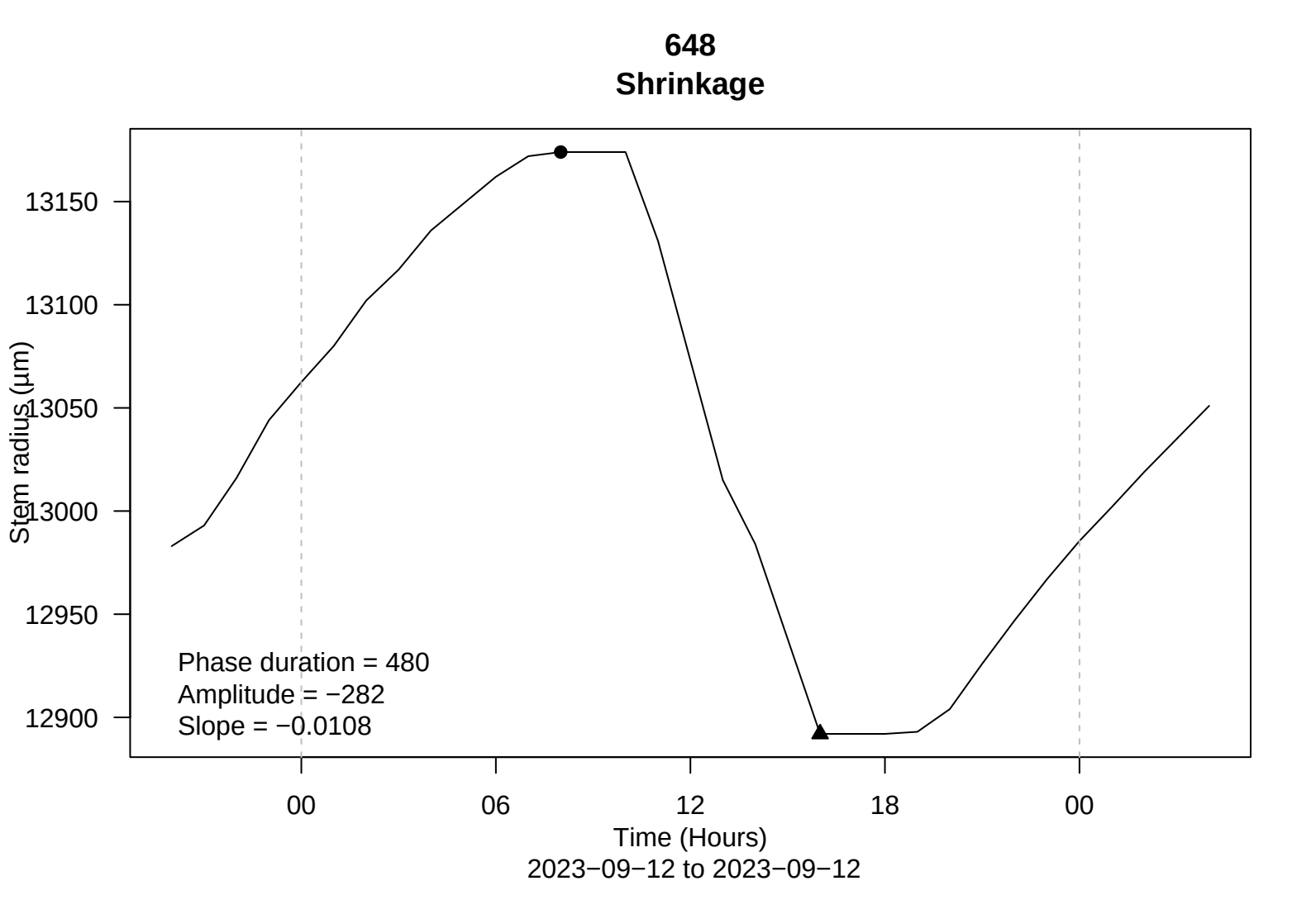

648
Expansion
13250
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 960
Amplitude = 197
Slope = 0.0041
12
00
12
Time (Hours)
2023−09−09 to 2023−09−10

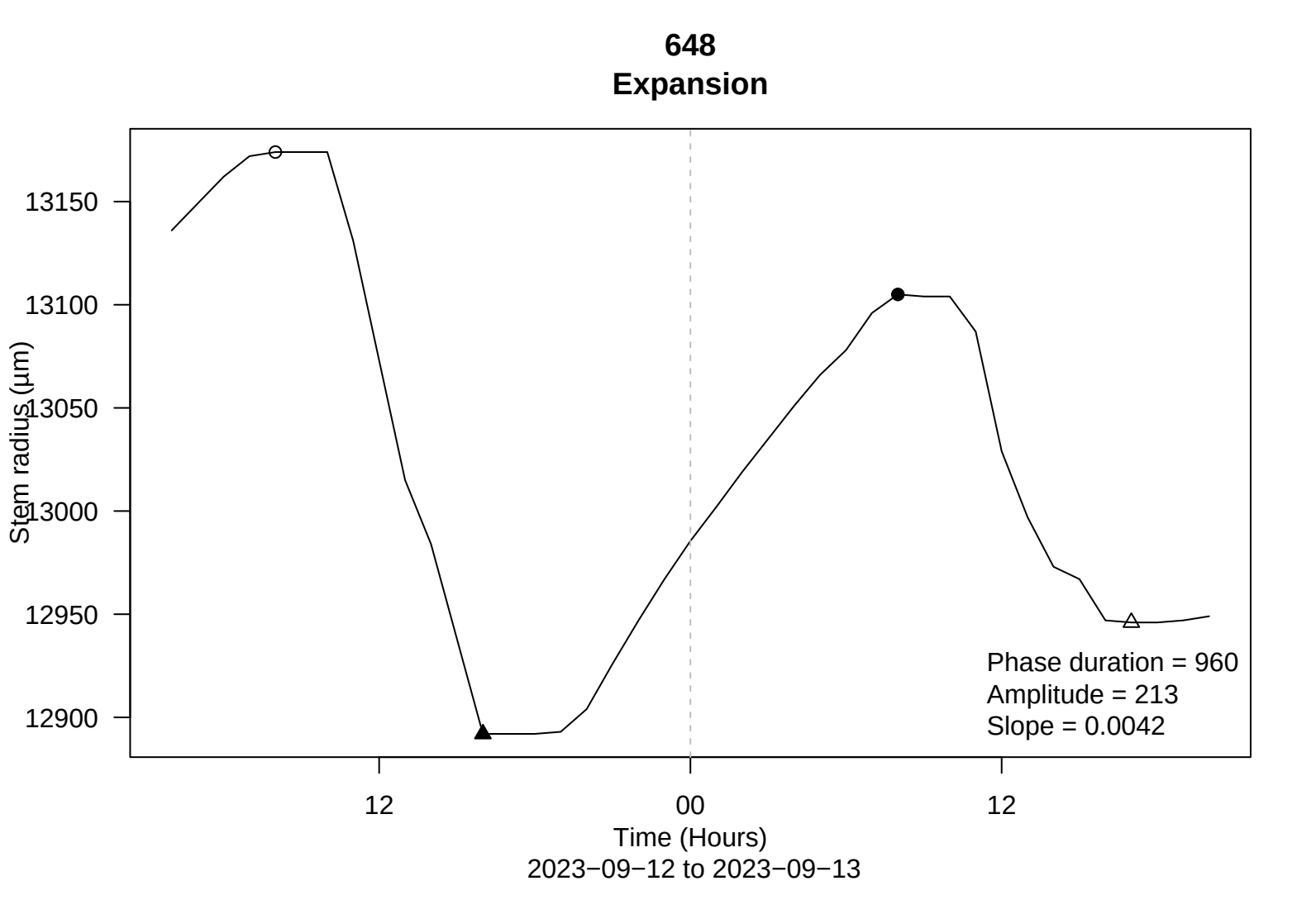

648
Shrinkage
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 480
Amplitude = −223
Slope = −0.0097
00
06
12
18
00
Time (Hours)
2023−09−10 to 2023−09−10

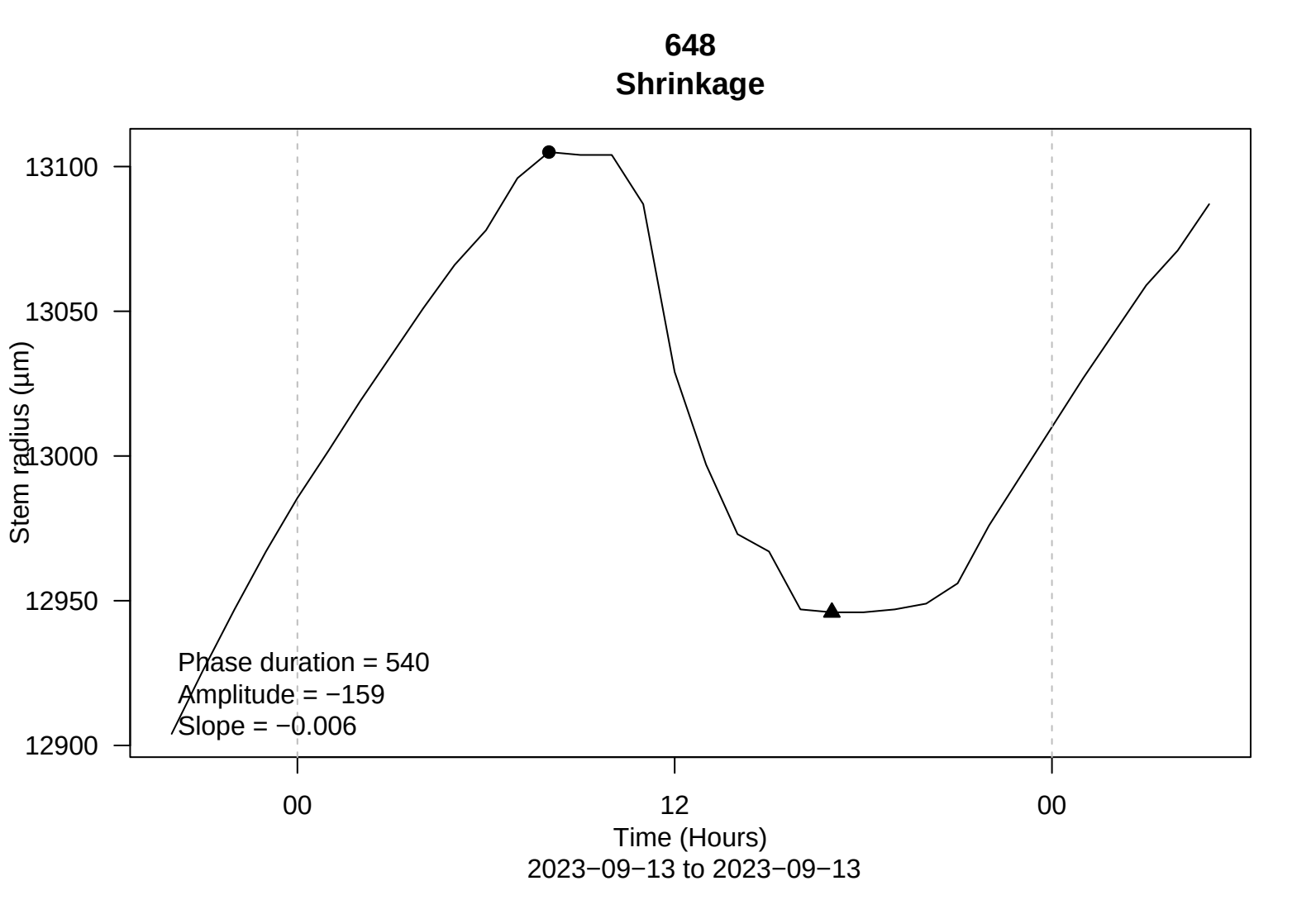

648
Expansion
13200
13150
13100
13050
13000
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−10 to 2023−09−11
Phase duration = 960
Amplitude = 178
Slope = 0.0036

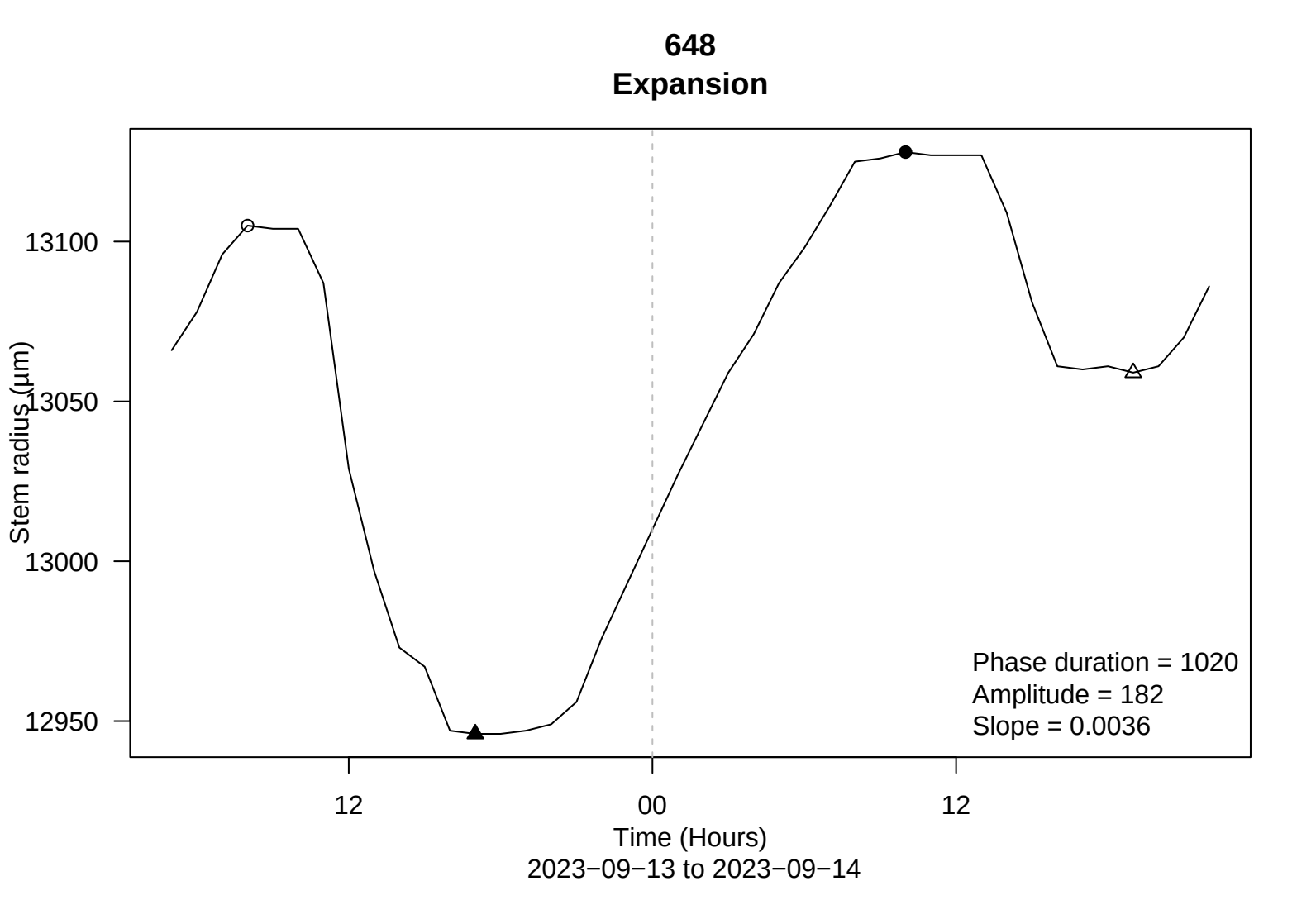

648
Shrinkage
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 420
Amplitude = −209
Slope = −0.0096
00
06
12
18
00
Time (Hours)
2023−09−11 to 2023−09−11

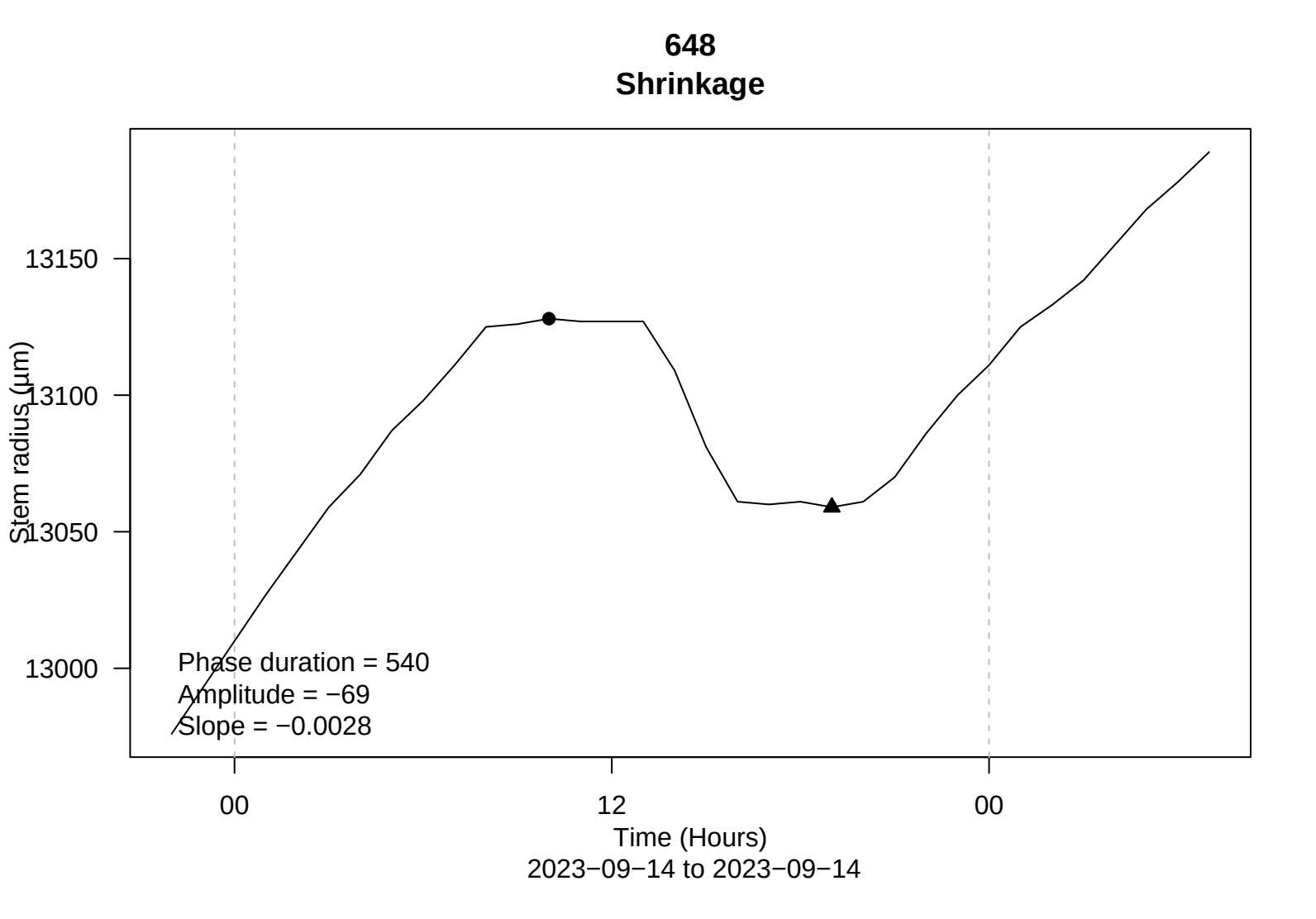

648
Expansion
13200
13150
13100
13050
13000
12950
12900
Stem radius (µm)
Phase duration = 1020
Amplitude = 194
Slope = 0.0039
12
00
12
Time (Hours)
2023−09−11 to 2023−09−12

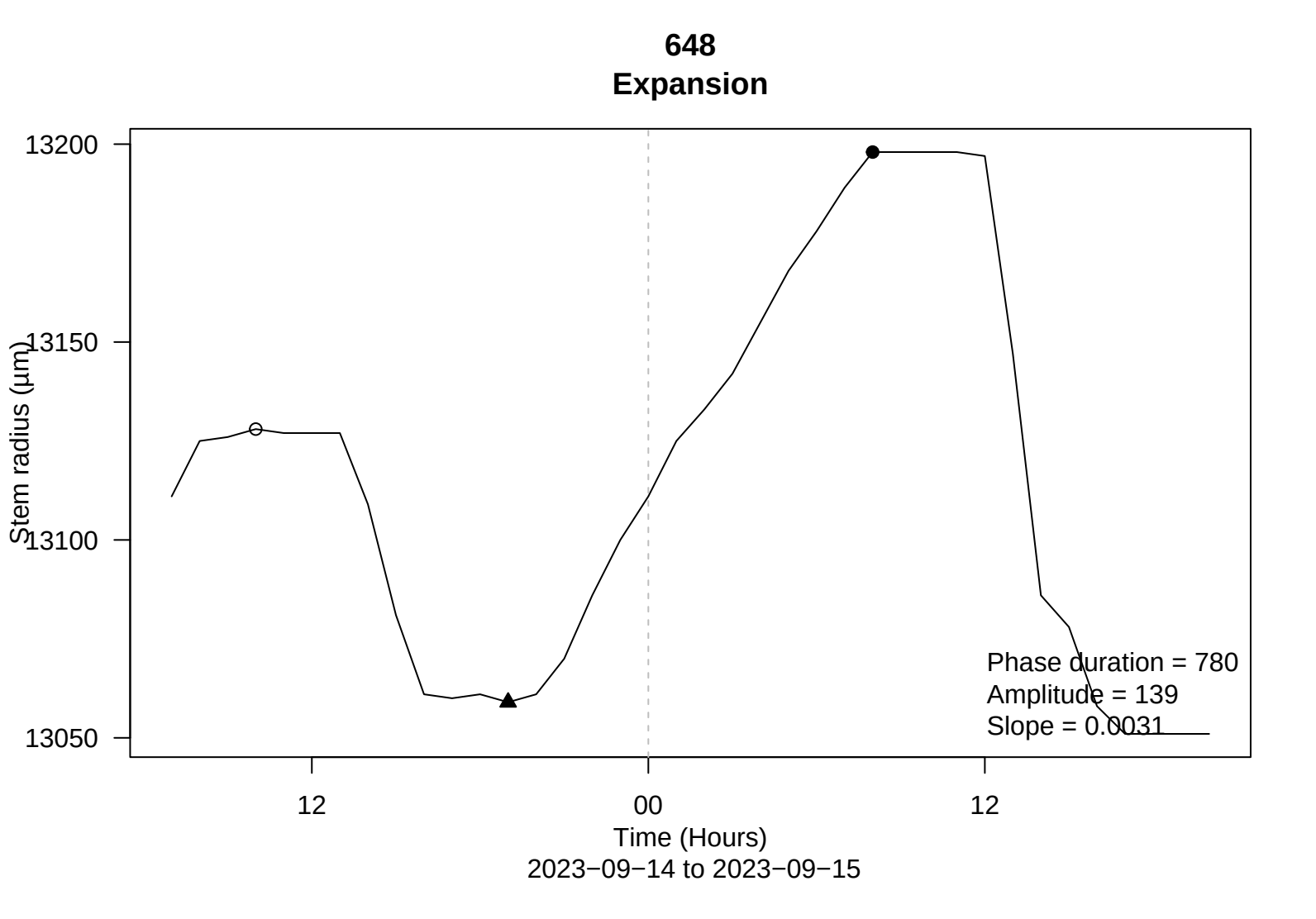

648
Shrinkage
13150
13100
13050
13000
12950
12900
Stem radius (µm)
Phase duration = 480
Amplitude = −282
Slope = −0.0108
00
06
12
18
00
Time (Hours)
2023−09−12 to 2023−09−12

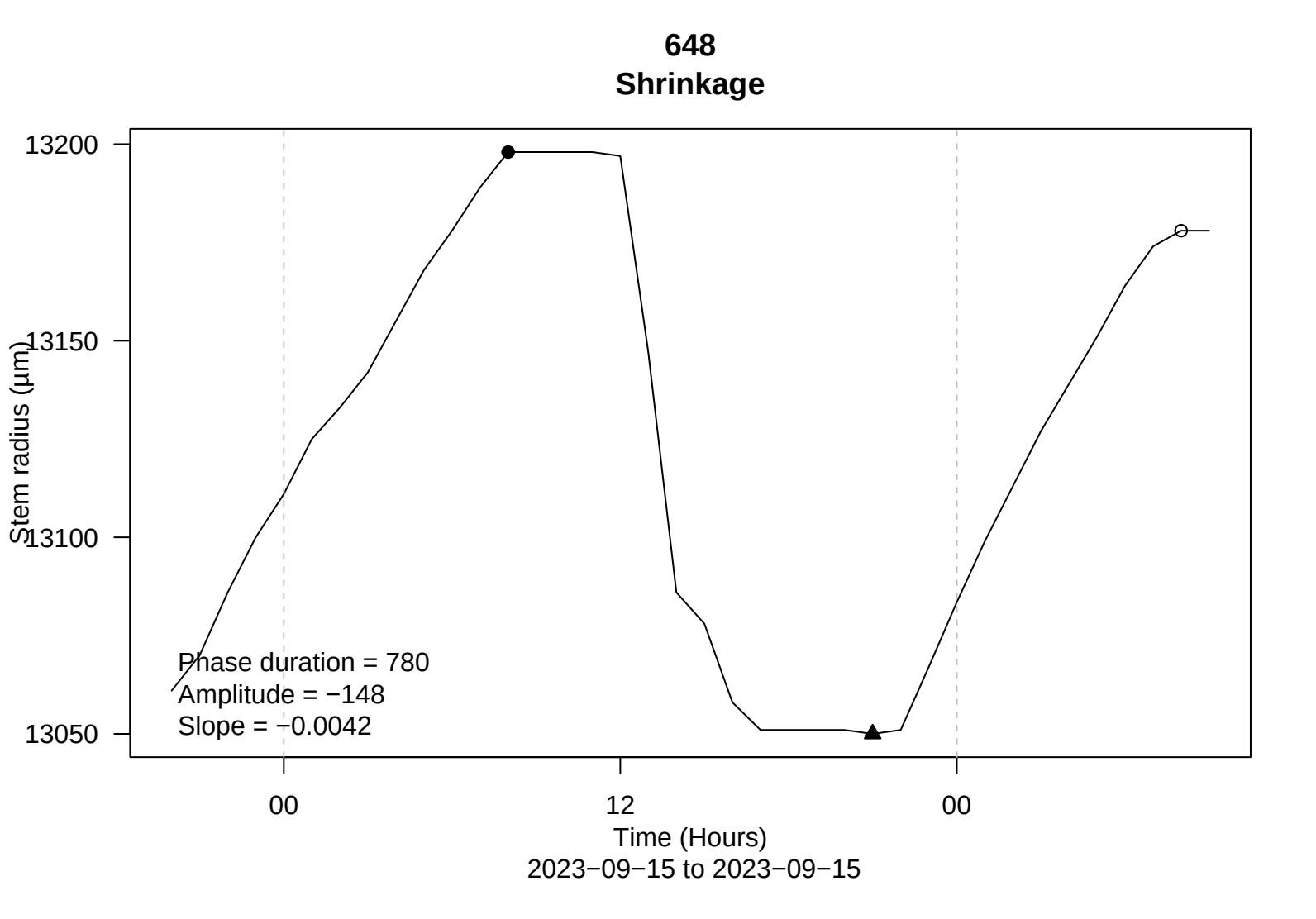

648
Expansion
13150
13100
13050
13000
12950
12900
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−12 to 2023−09−13
Phase duration = 960
Amplitude = 213
Slope = 0.0042

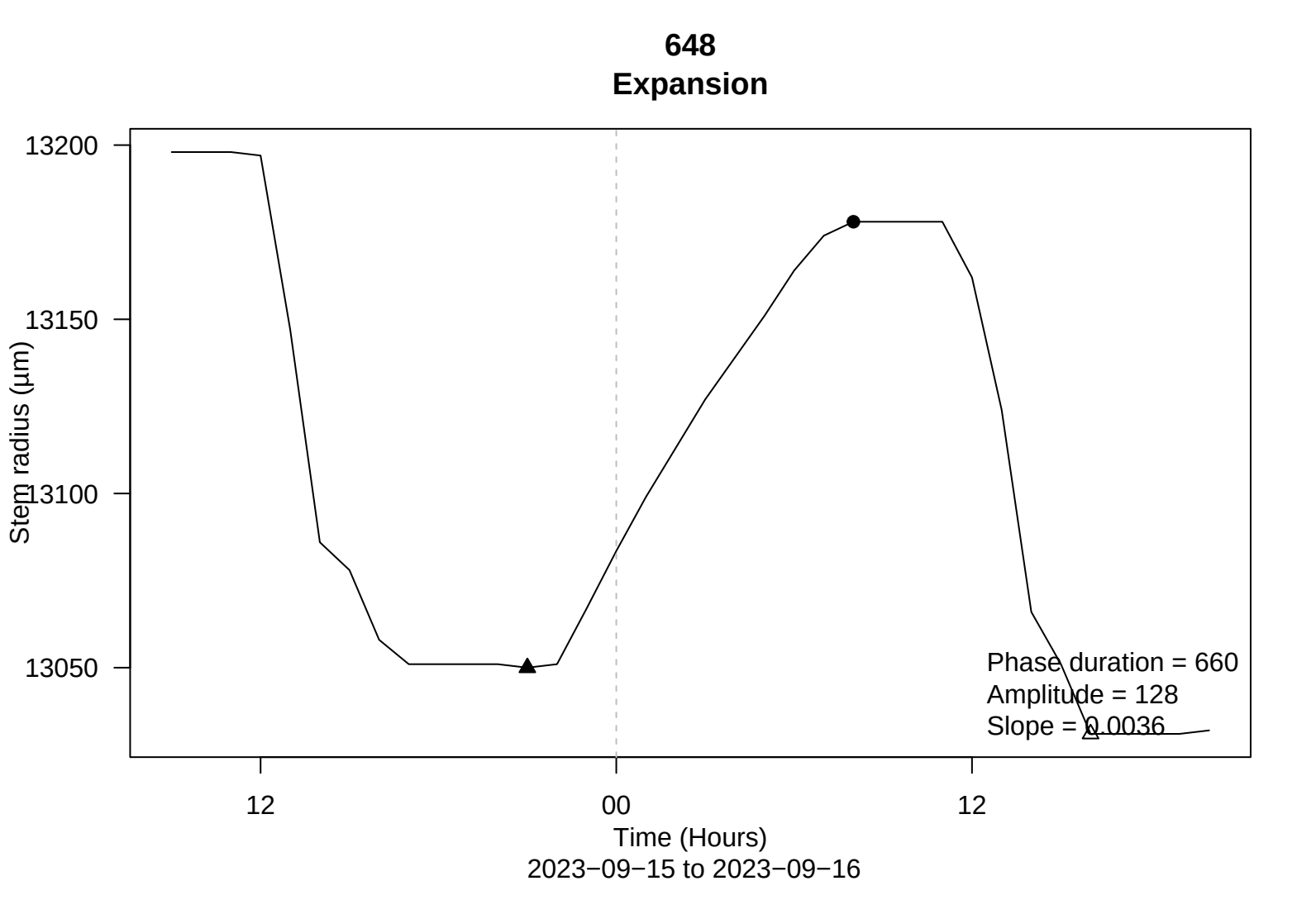

648
Shrinkage
13100
13050
13000
12950
12900
Stem radius (µm)
Phase duration = 540
Amplitude = −159
Slope = −0.006
00
12
00
Time (Hours)
2023−09−13 to 2023−09−13

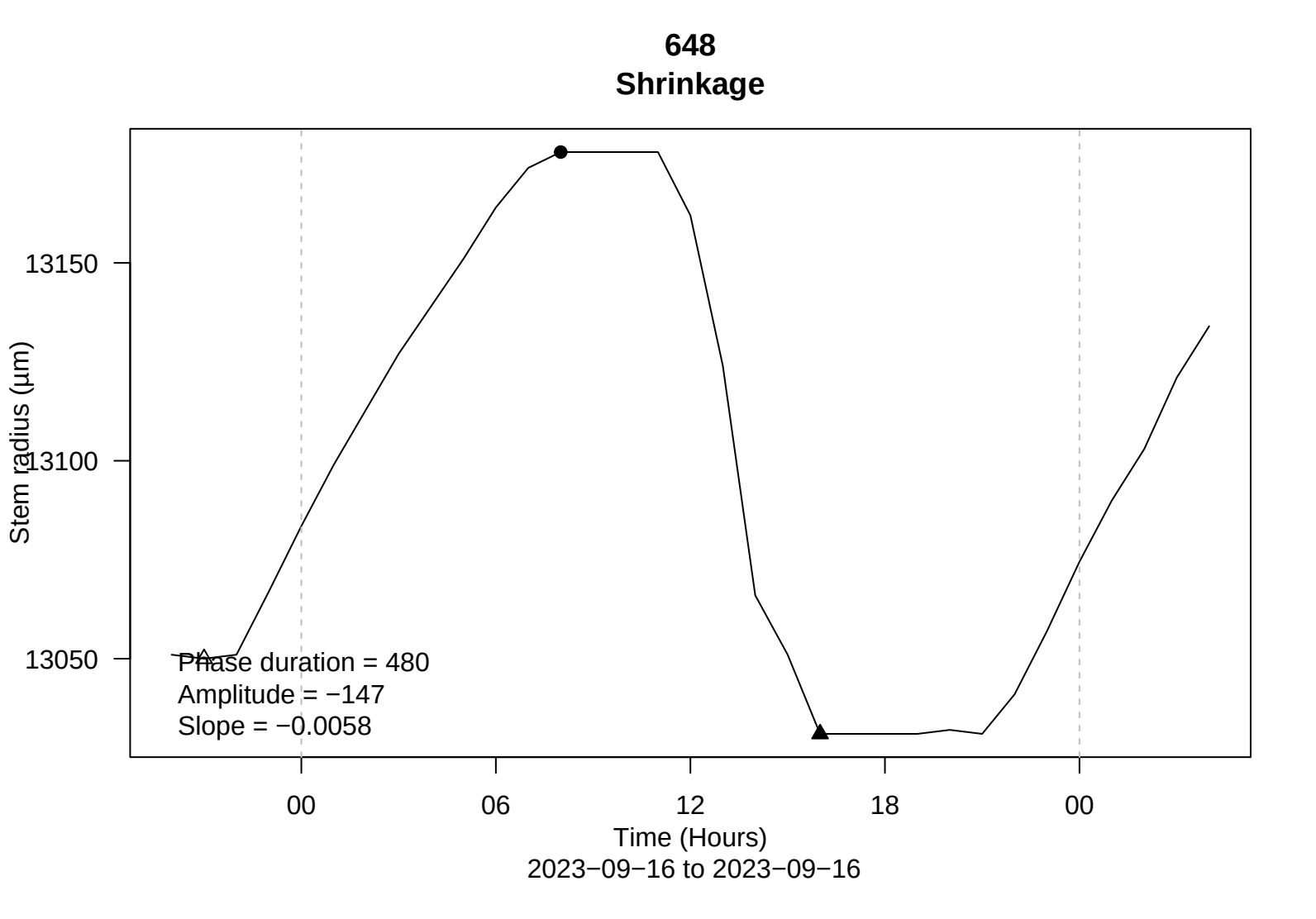

648
Expansion
13100
13050
13000
12950
Stem radius (µm)
Phase duration = 1020
Amplitude = 182
Slope = 0.0036
12
00
12
Time (Hours)
2023−09−13 to 2023−09−14

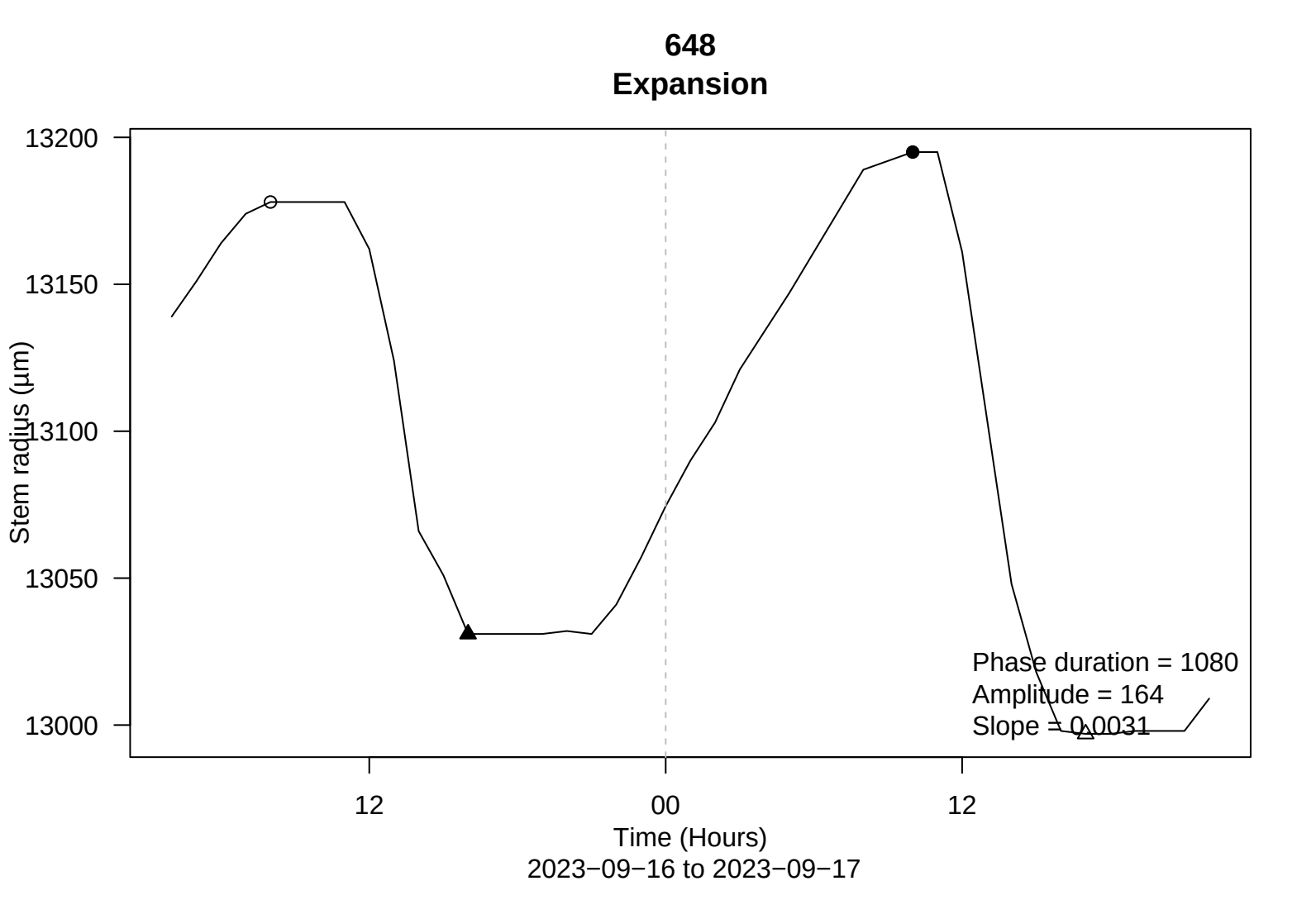

648
Shrinkage
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 540
Amplitude = −69
Slope = −0.0028
00
12
00
Time (Hours)
2023−09−14 to 2023−09−14

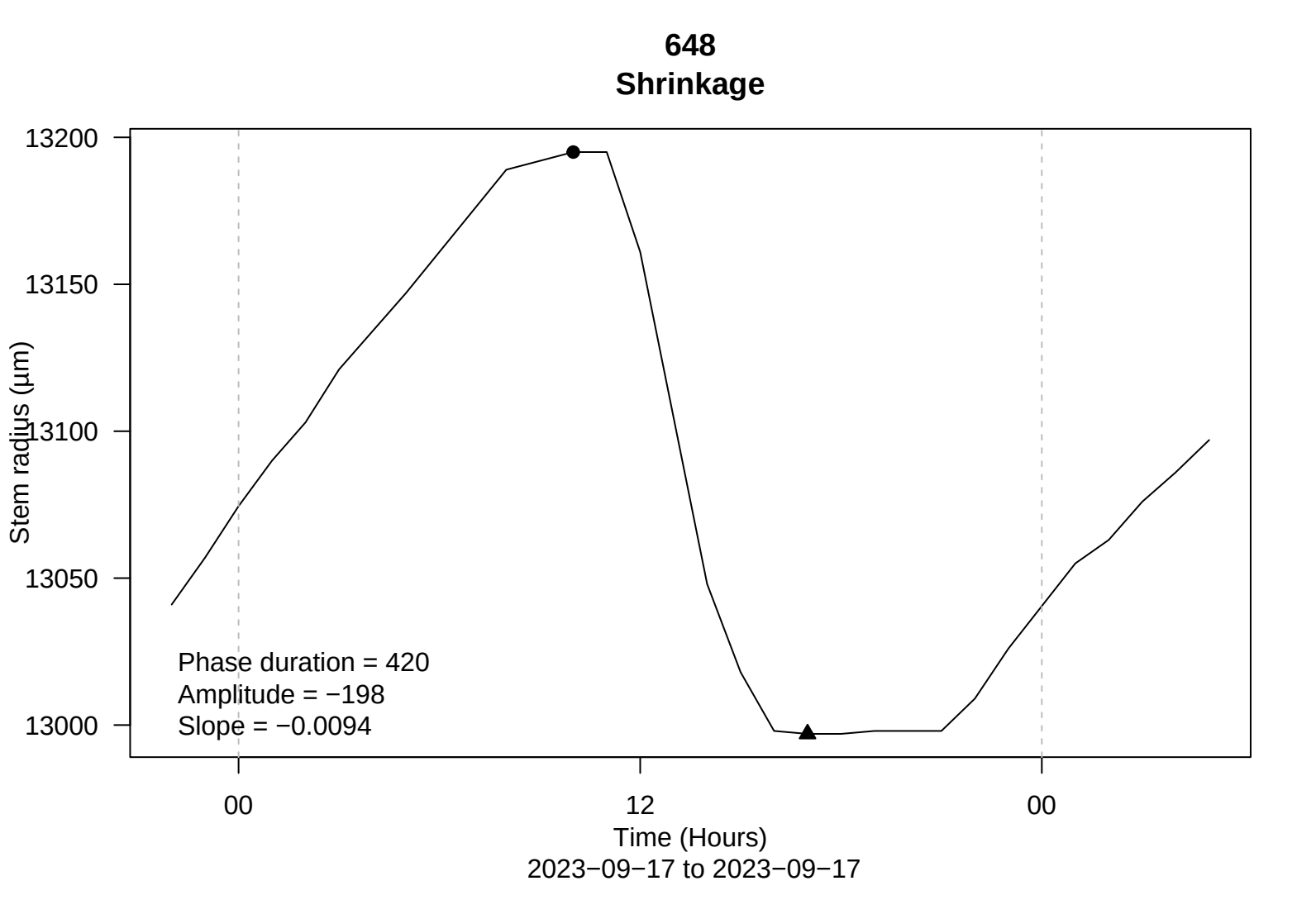

648
Expansion
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 780
Amplitude = 139
Slope = 0.0031
12
00
12
Time (Hours)
2023−09−14 to 2023−09−15

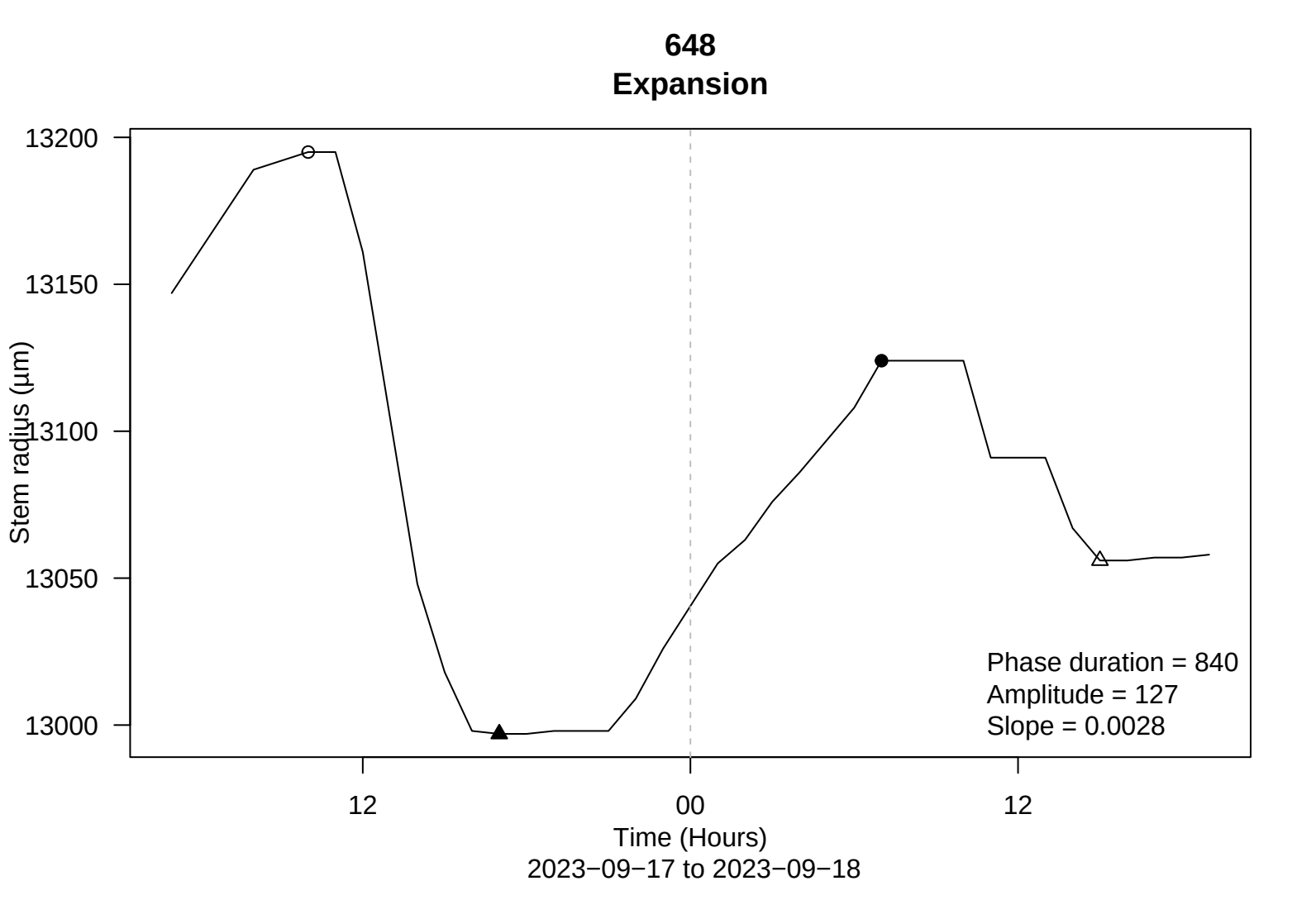

648
Shrinkage
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 780
Amplitude = −148
Slope = −0.0042
00
12
00
Time (Hours)
2023−09−15 to 2023−09−15

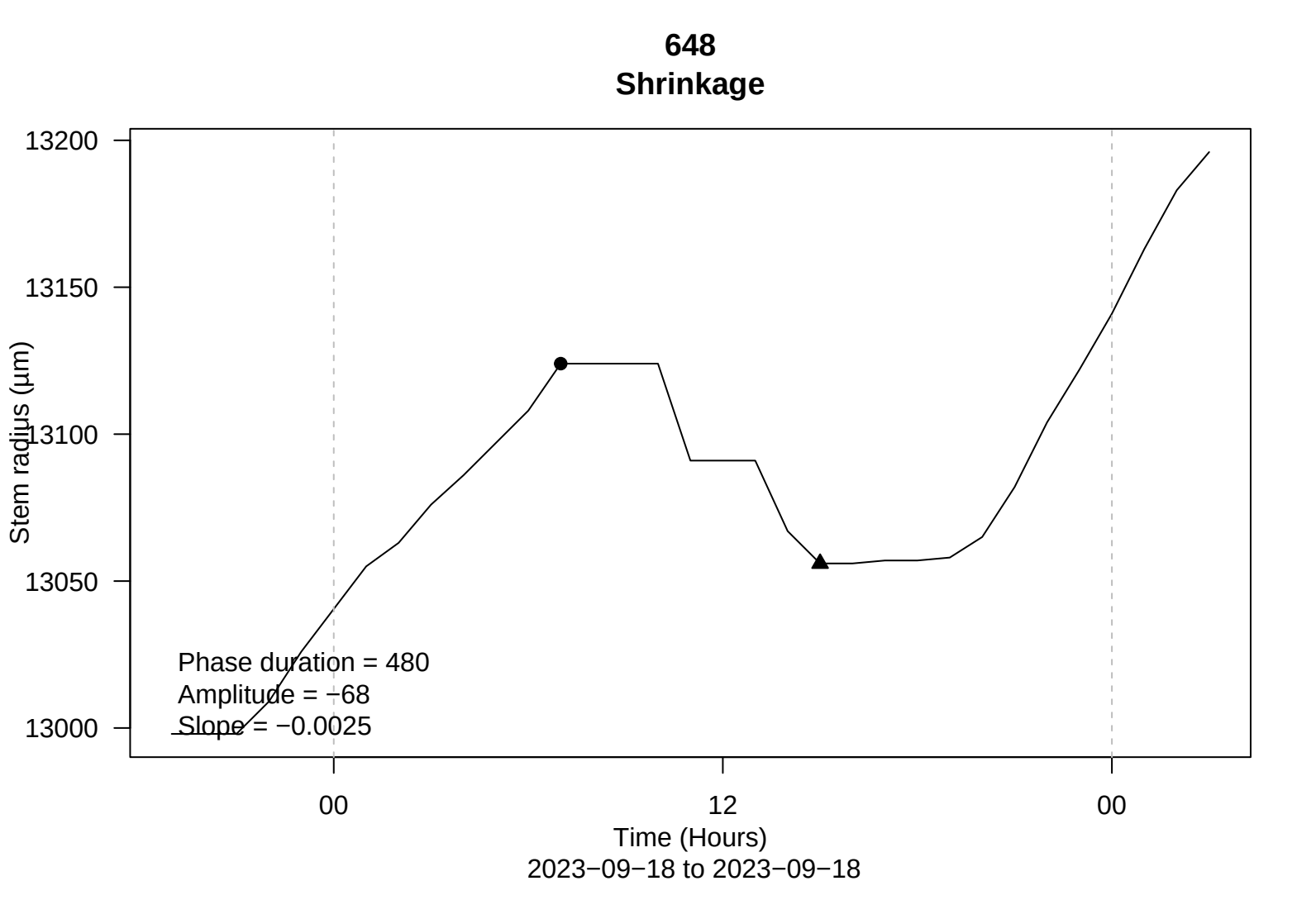

648
Expansion
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 660
Amplitude = 128
Slope = 0.0036
12
00
12
Time (Hours)
2023−09−15 to 2023−09−16

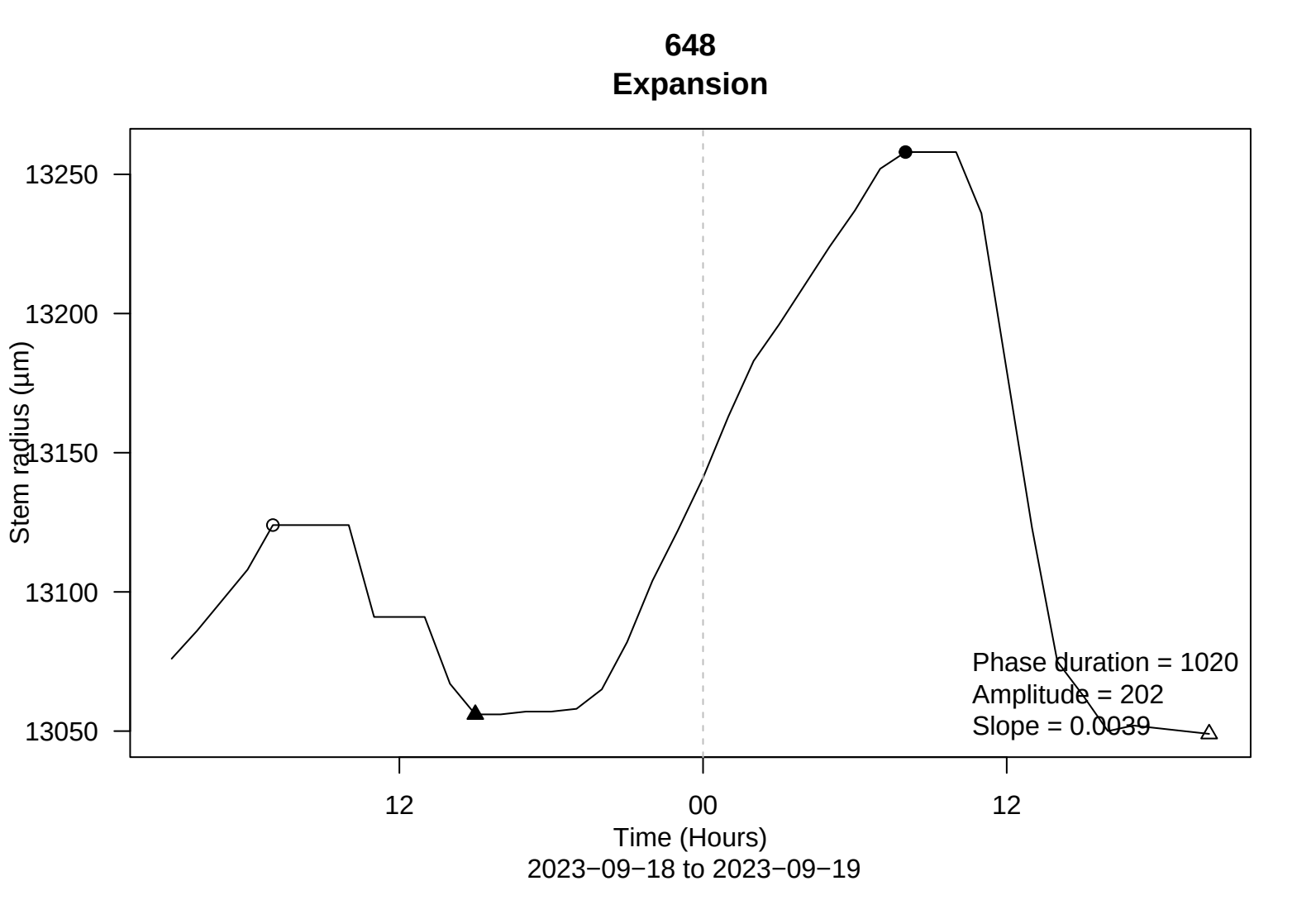

648
Shrinkage
13150
13100
13050
Stem radius (µm)
Phase duration = 480
Amplitude = −147
Slope = −0.0058
00
06
12
18
00
Time (Hours)
2023−09−16 to 2023−09−16

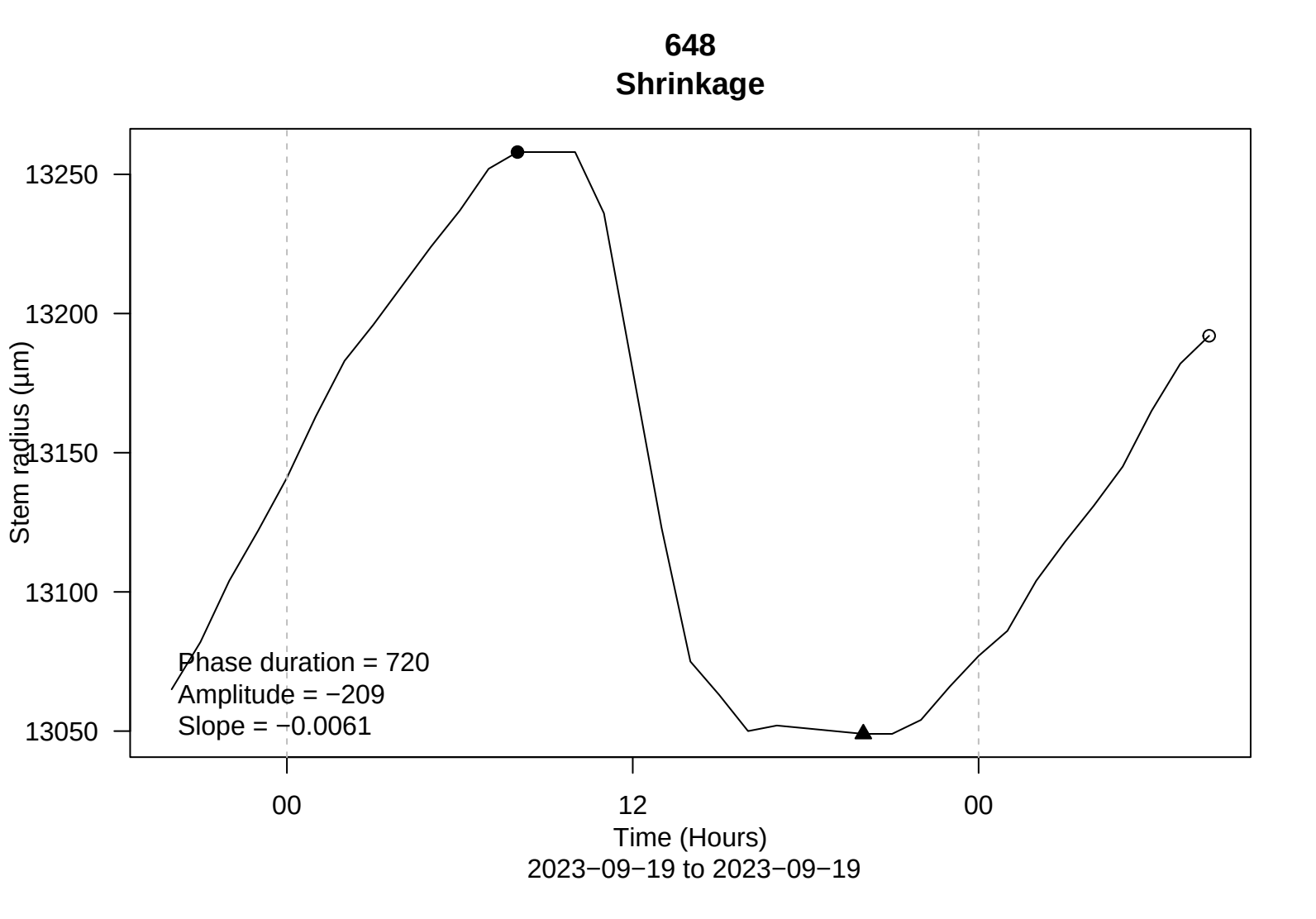

648
Expansion
13200
13150
13100
13050
13000
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−16 to 2023−09−17
Phase duration = 1080
Amplitude = 164
Slope = 0.0031

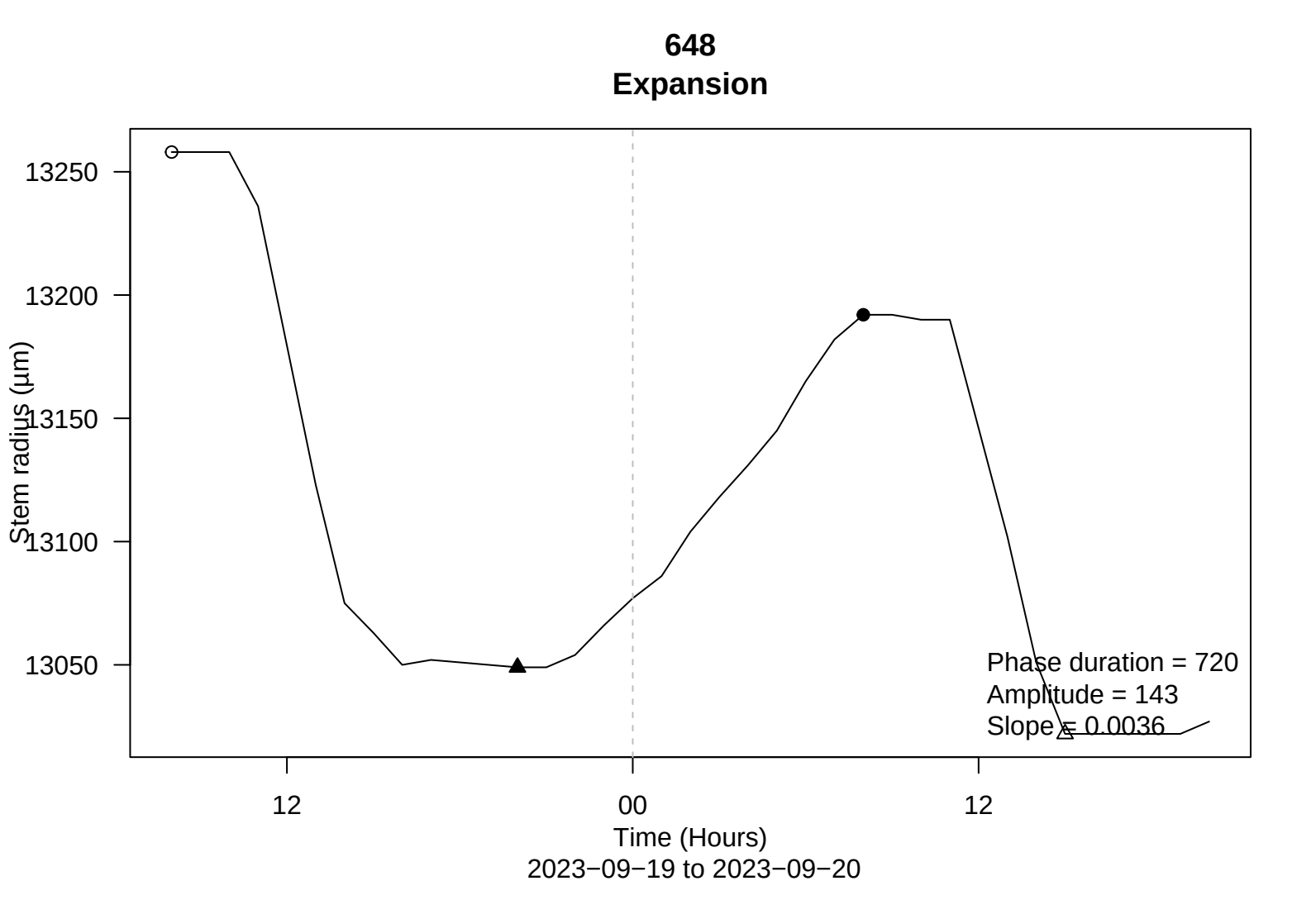

648
Shrinkage
13200
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 420
Amplitude = −198
Slope = −0.0094
00
12
00
Time (Hours)
2023−09−17 to 2023−09−17

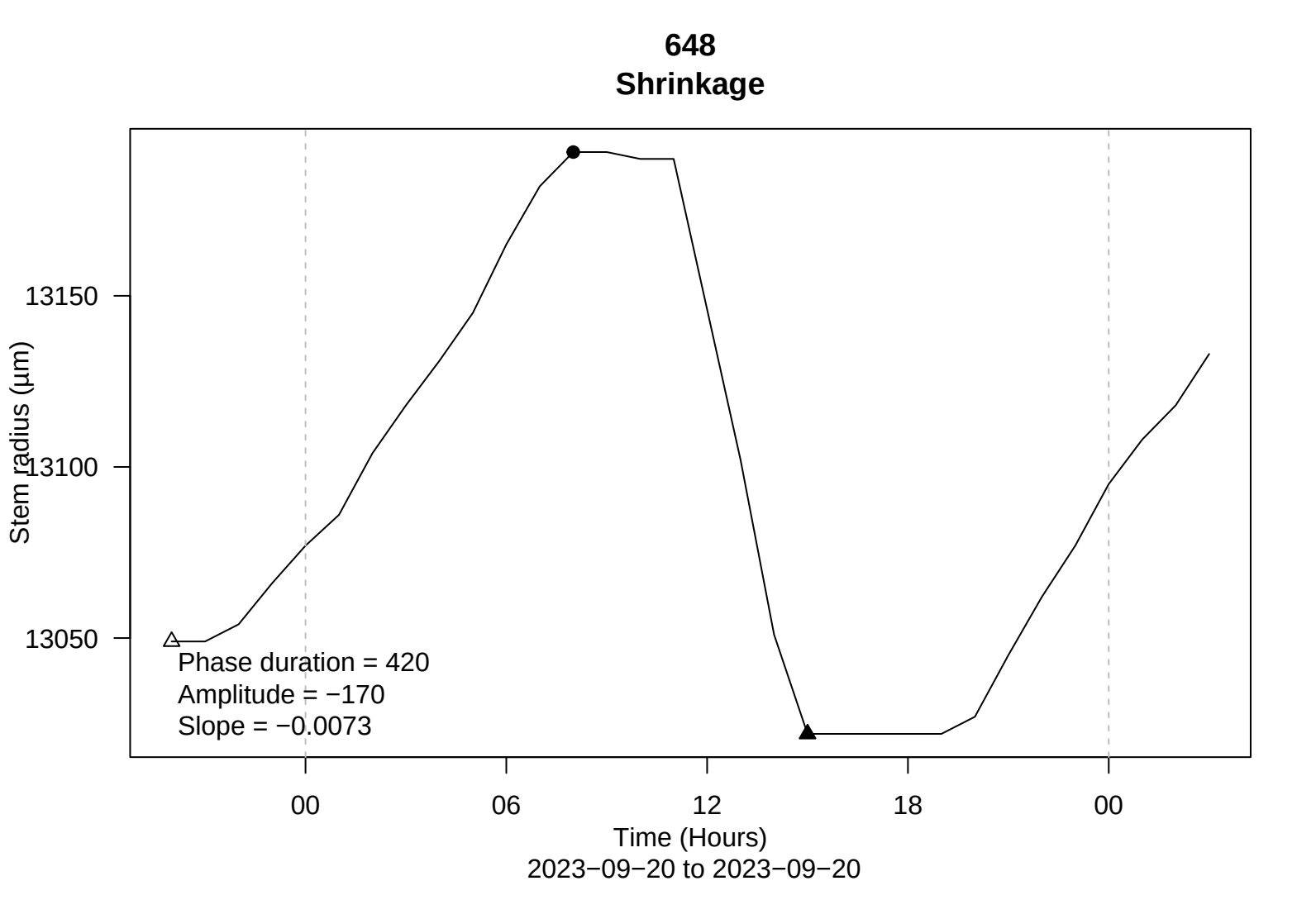

648
Expansion
13200
13150
13100
13050
13000
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−17 to 2023−09−18
Phase duration = 840
Amplitude = 127
Slope = 0.0028

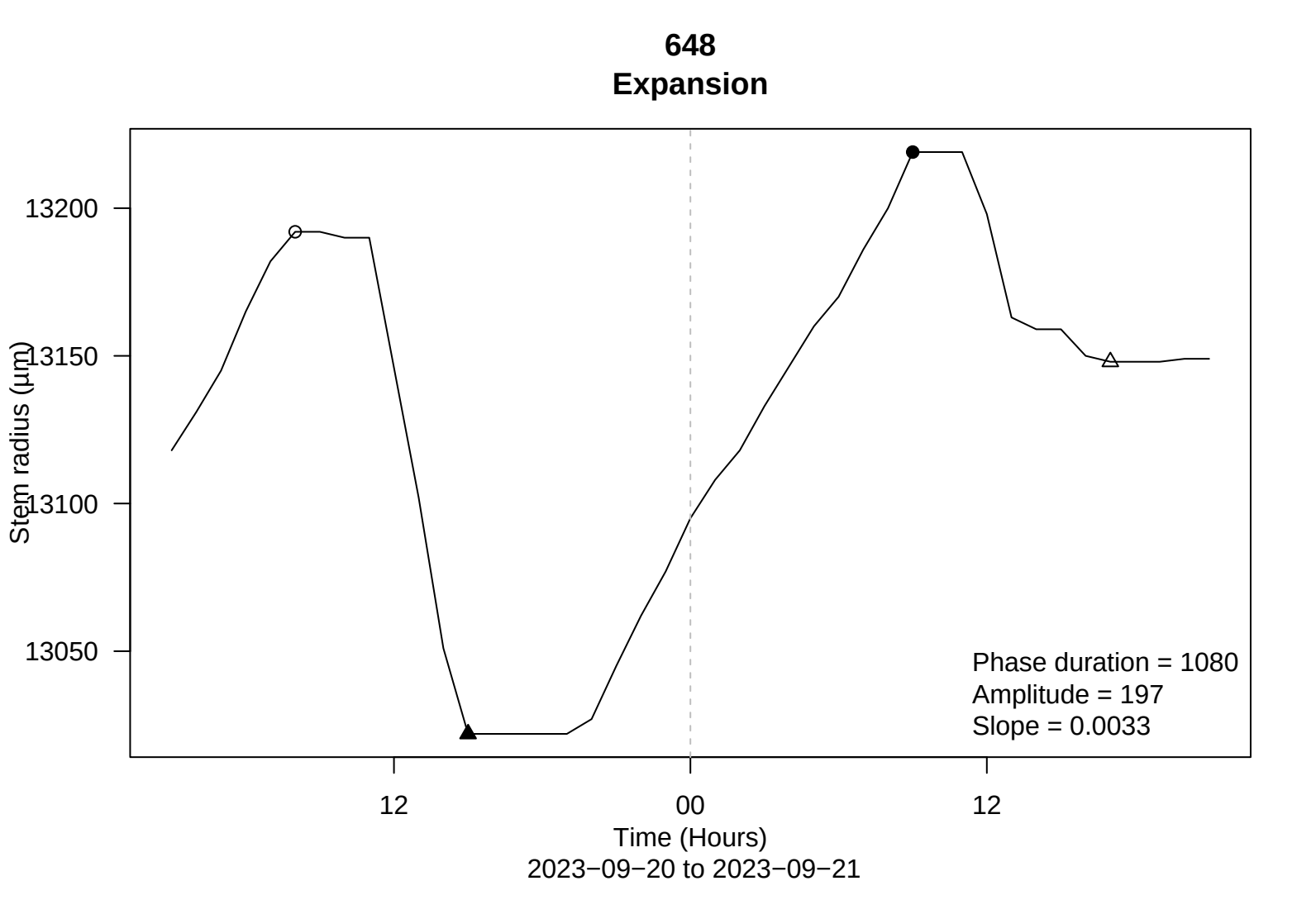

648
Shrinkage
13200
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 480
Amplitude = −68
Slope = −0.0025
00
12
00
Time (Hours)
2023−09−18 to 2023−09−18

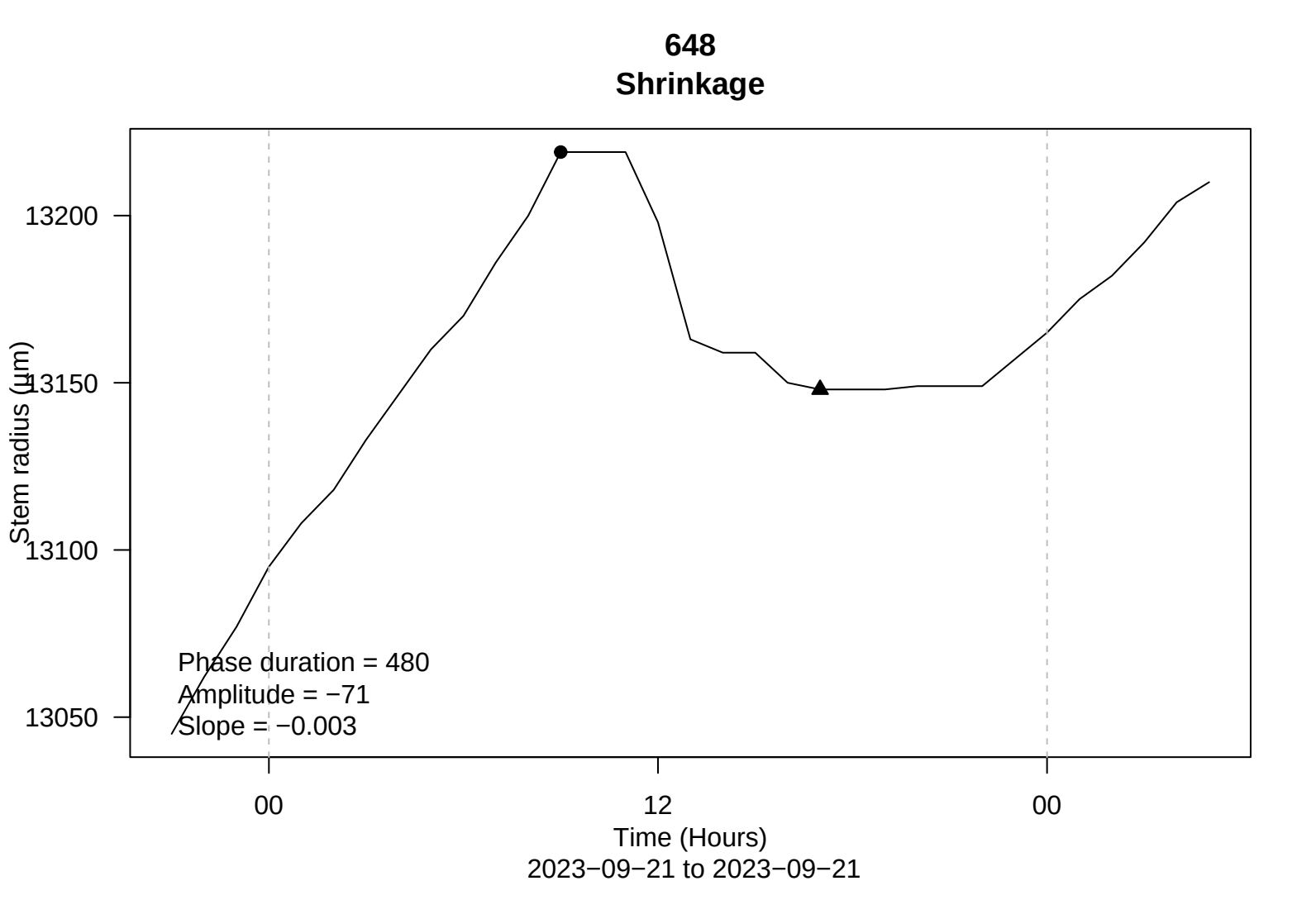

648
Expansion
13250
13200
13150
13100
13050
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−18 to 2023−09−19
Phase duration = 1020
Amplitude = 202
Slope = 0.0039

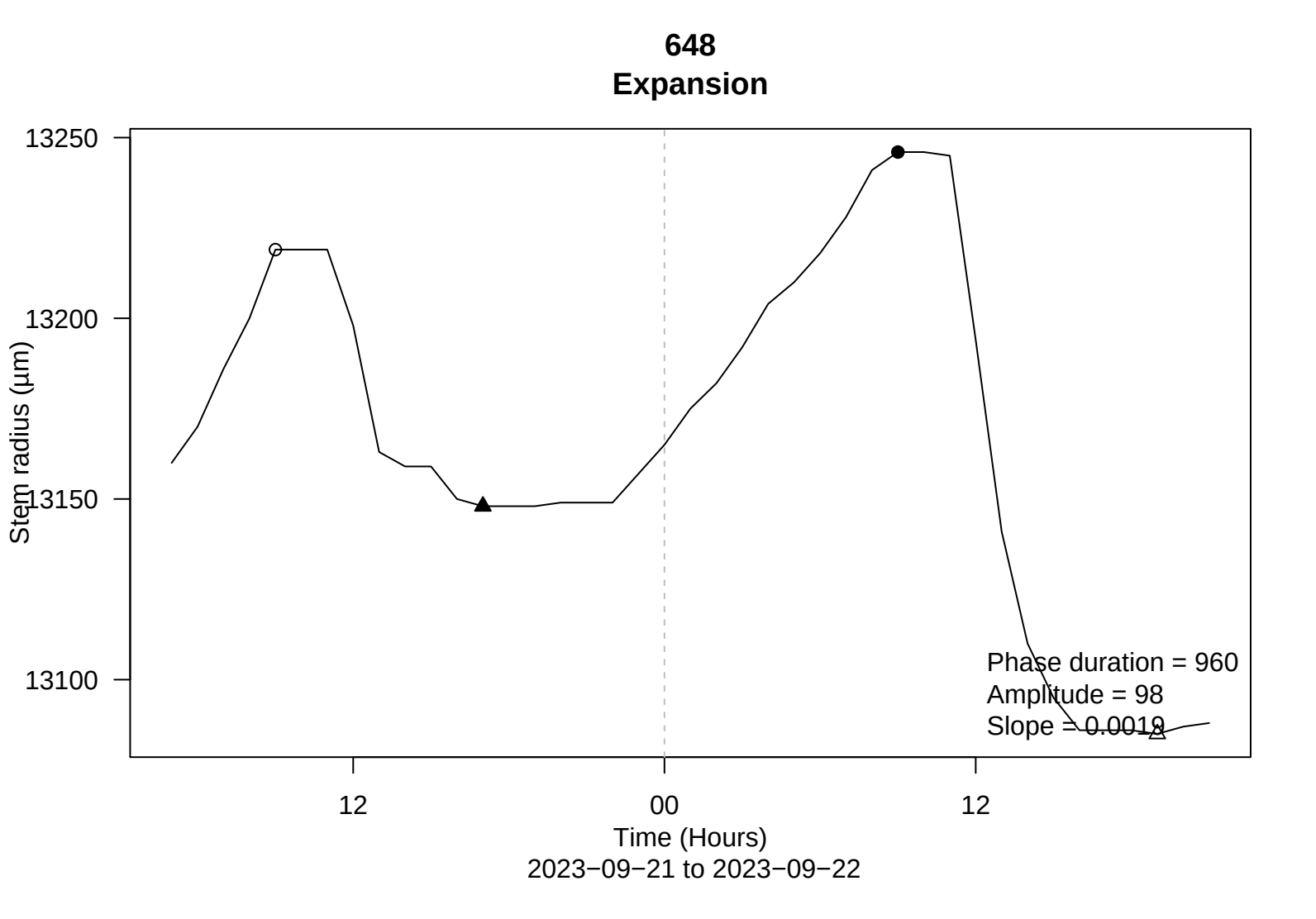

648
Shrinkage
13250
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 720
Amplitude = −209
Slope = −0.0061
00
12
00
Time (Hours)
2023−09−19 to 2023−09−19

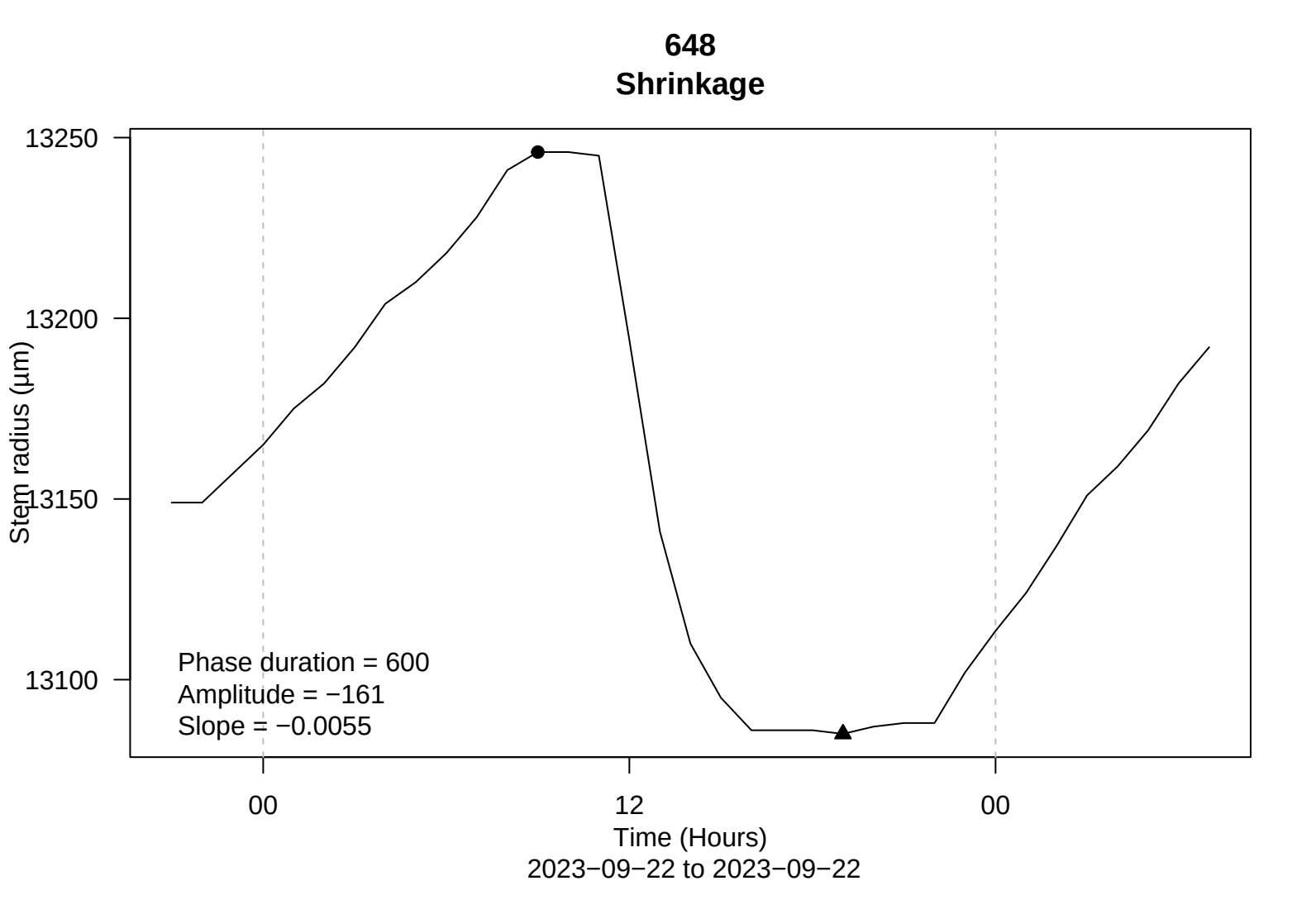

648
Expansion
13250
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 720
Amplitude = 143
Slope = 0.0036
12
00
12
Time (Hours)
2023−09−19 to 2023−09−20

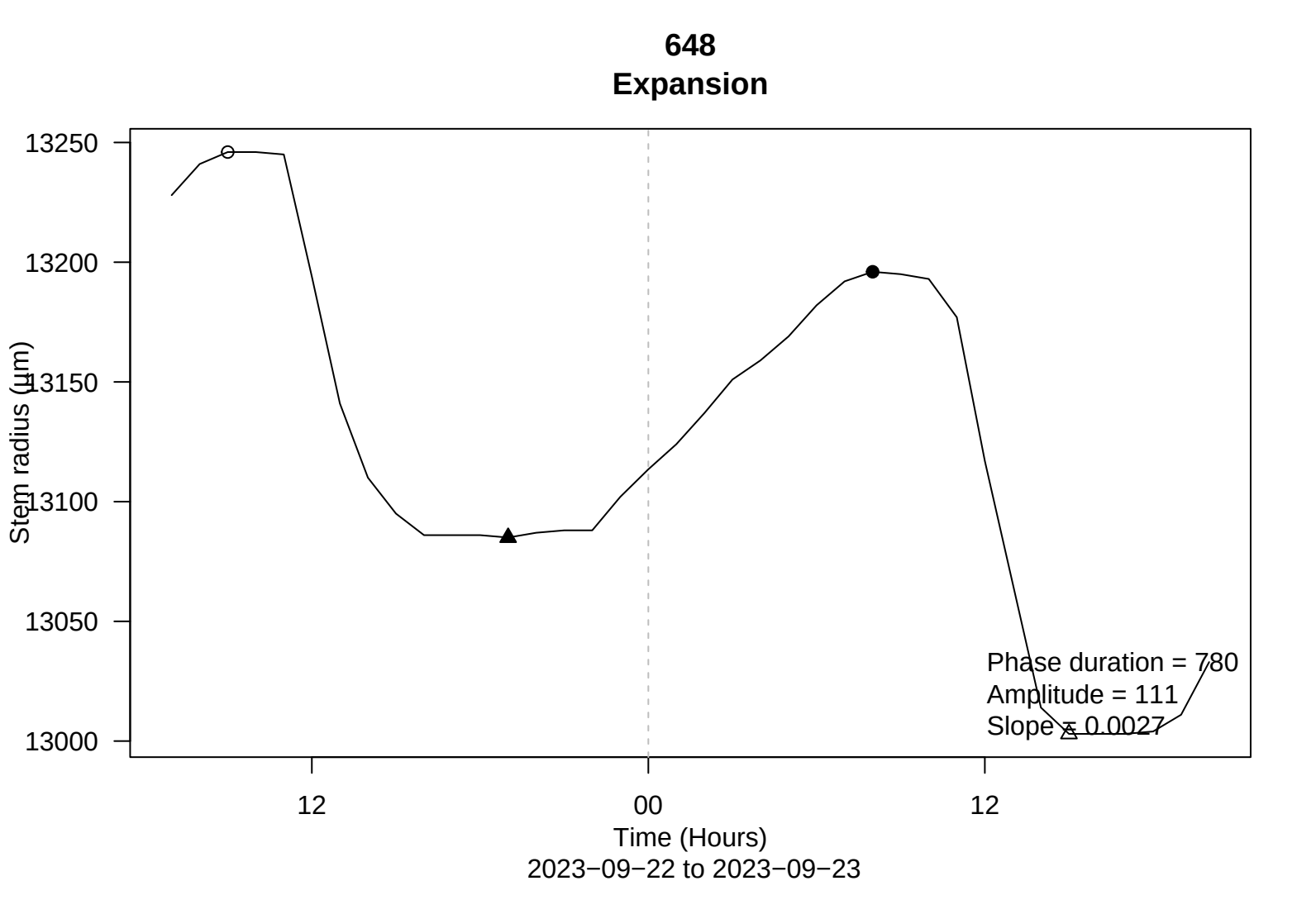

648
Shrinkage
13150
13100
13050
Stem radius (µm)
Phase duration = 420
Amplitude = −170
Slope = −0.0073
00
06
12
18
00
Time (Hours)
2023−09−20 to 2023−09−20

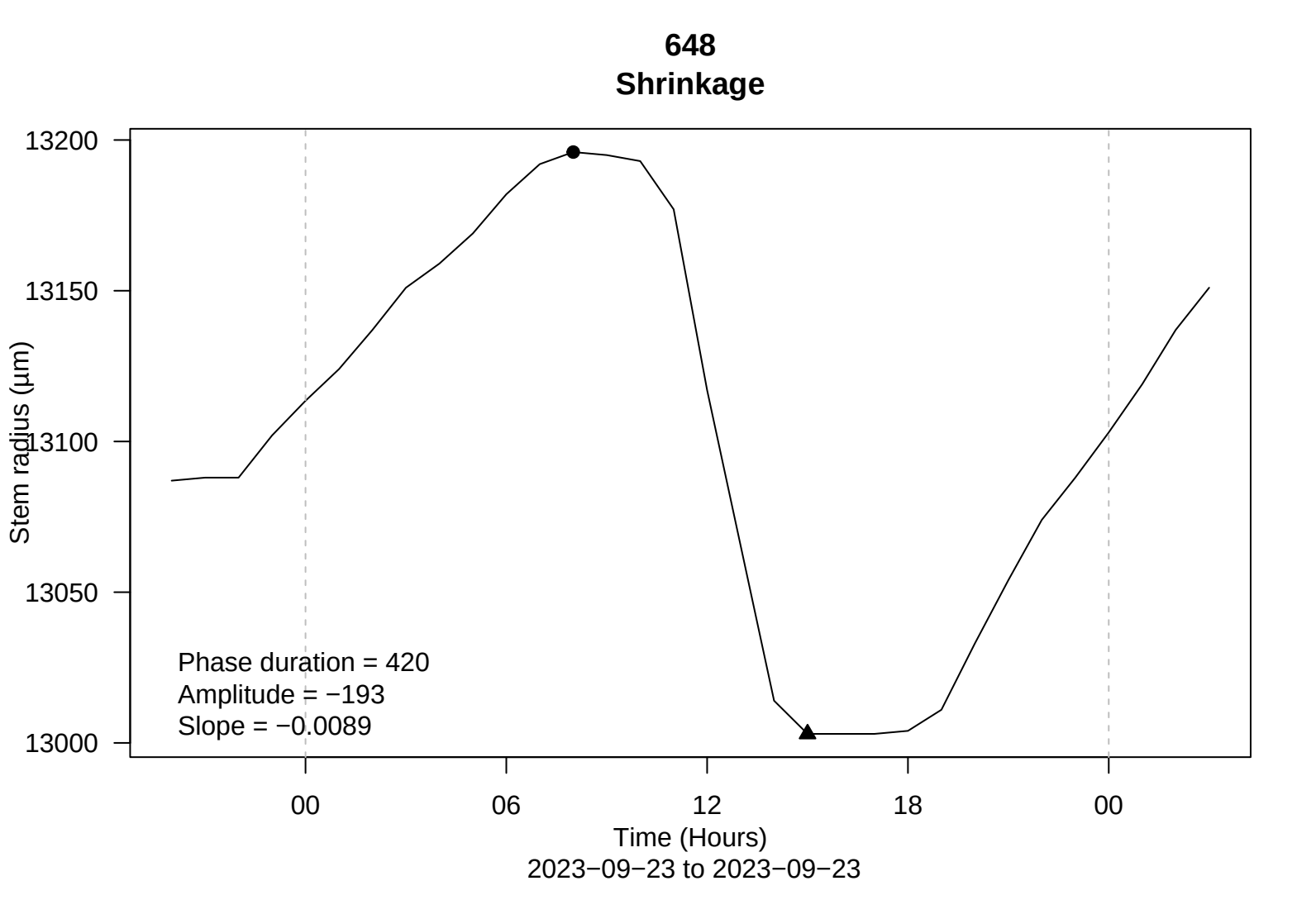

648
Expansion
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 1080
Amplitude = 197
Slope = 0.0033
12
00
12
Time (Hours)
2023−09−20 to 2023−09−21

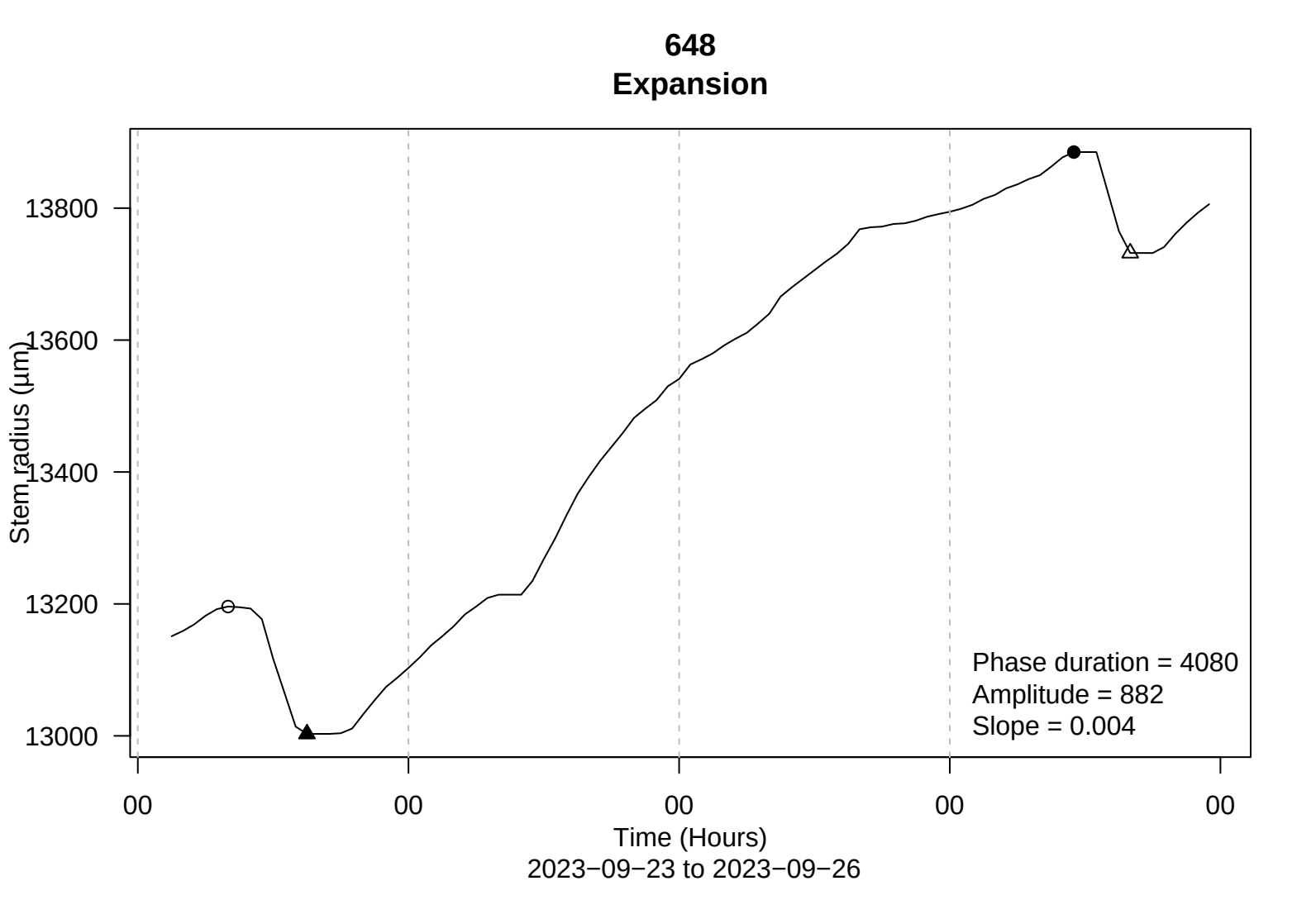

648
Shrinkage
13200
13150
13100
13050
Stem radius (µm)
Phase duration = 480
Amplitude = −71
Slope = −0.003
00
12
00
Time (Hours)
2023−09−21 to 2023−09−21

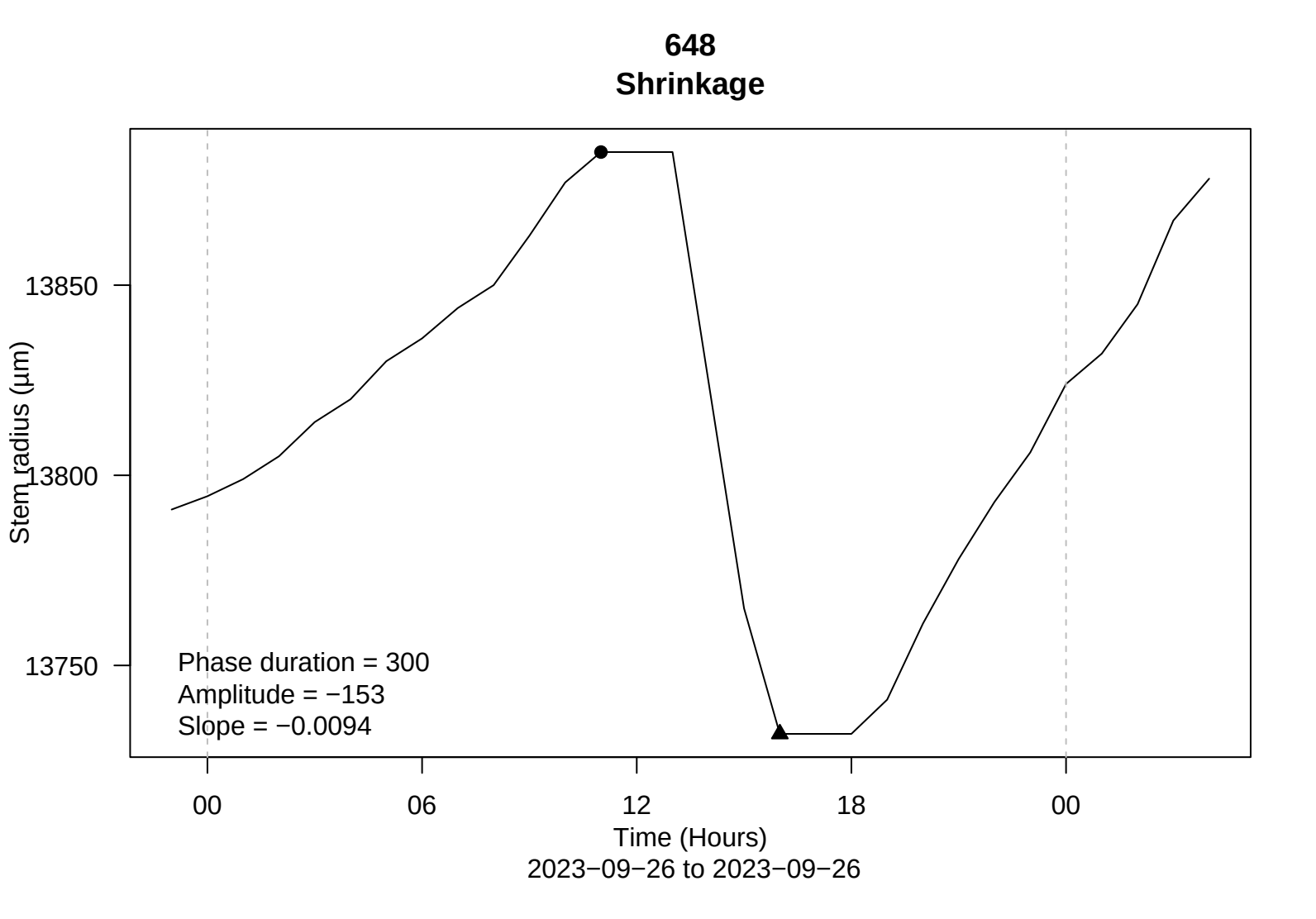

648
Expansion
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 960
Amplitude = 98
Slope = 0.0019
12
00
12
Time (Hours)
2023−09−21 to 2023−09−22

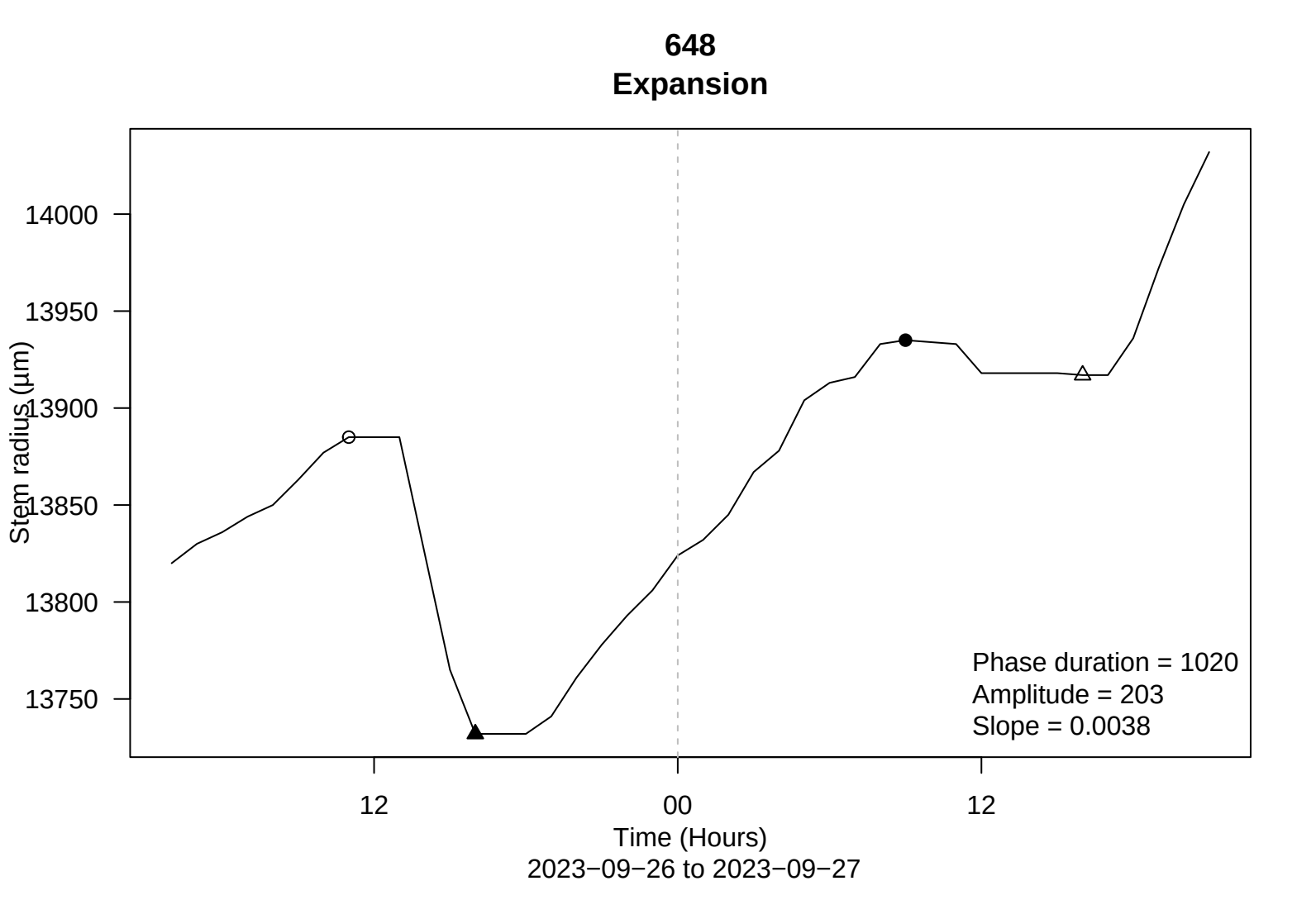

648
Shrinkage
13250
13200
13150
13100
Stem radius (µm)
Phase duration = 600
Amplitude = −161
Slope = −0.0055
00
12
00
Time (Hours)
2023−09−22 to 2023−09−22

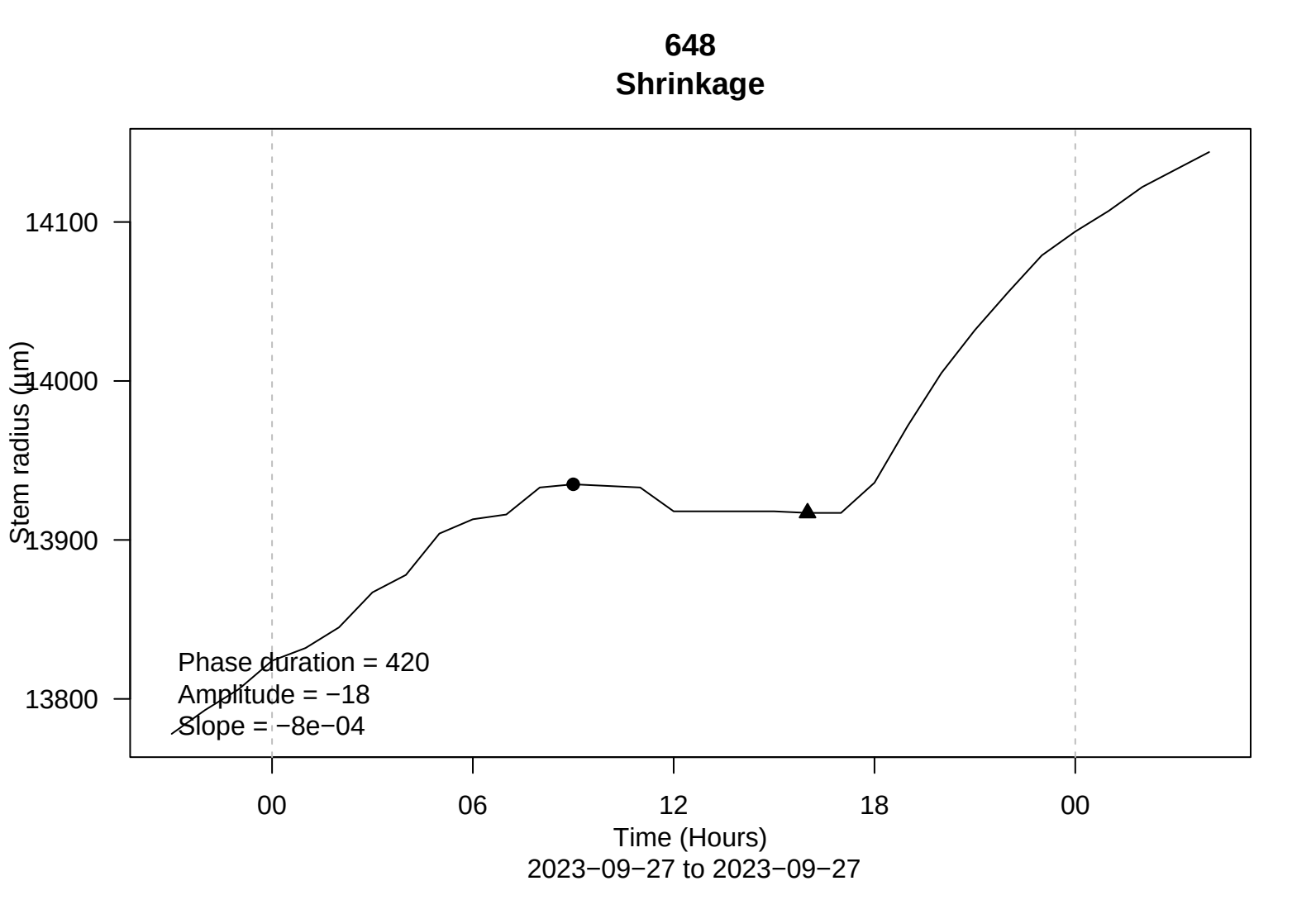

648
Expansion
13250
13200
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 780
Amplitude = 111
Slope = 0.0027
12
00
12
Time (Hours)
2023−09−22 to 2023−09−23

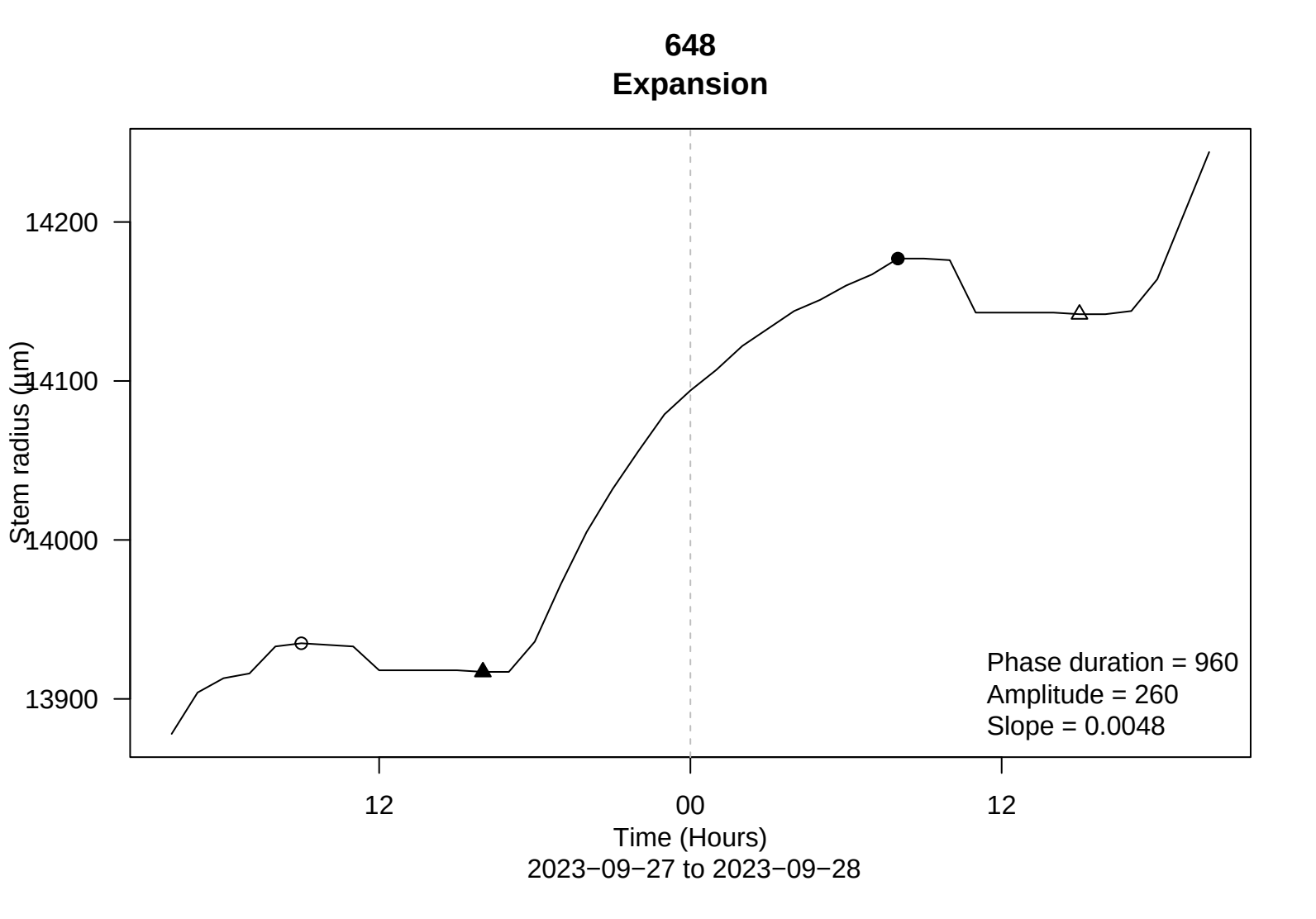

648
Shrinkage
13200
13150
13100
13050
13000
Stem radius (µm)
Phase duration = 420
Amplitude = −193
Slope = −0.0089
00
06
12
18
00
Time (Hours)
2023−09−23 to 2023−09−23

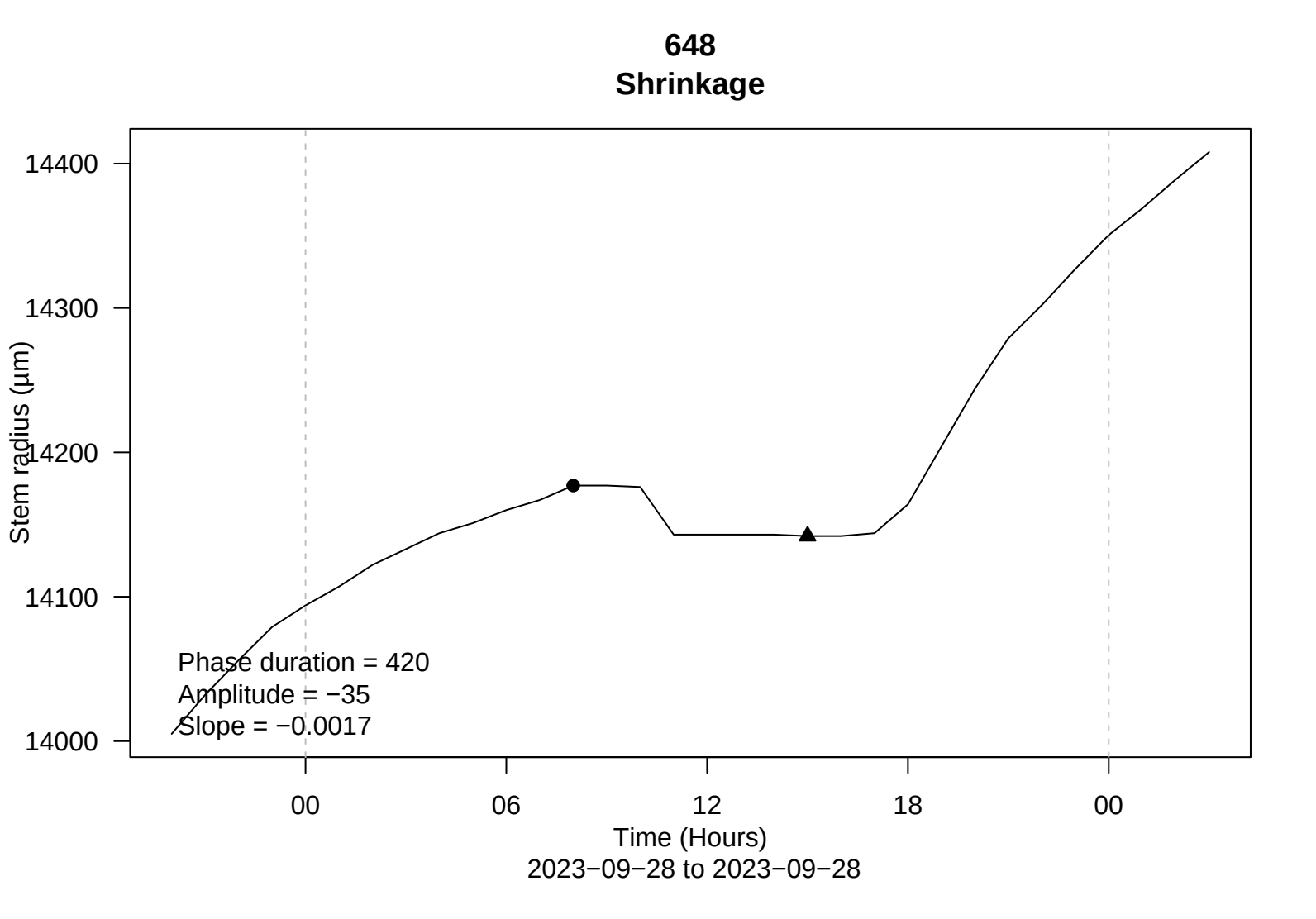

648
Expansion
13800
13600
13400
13200
13000
Stem radius (µm)
Phase duration = 4080
Amplitude = 882
Slope = 0.004
00
00
00
00
00
Time (Hours)
2023−09−23 to 2023−09−26

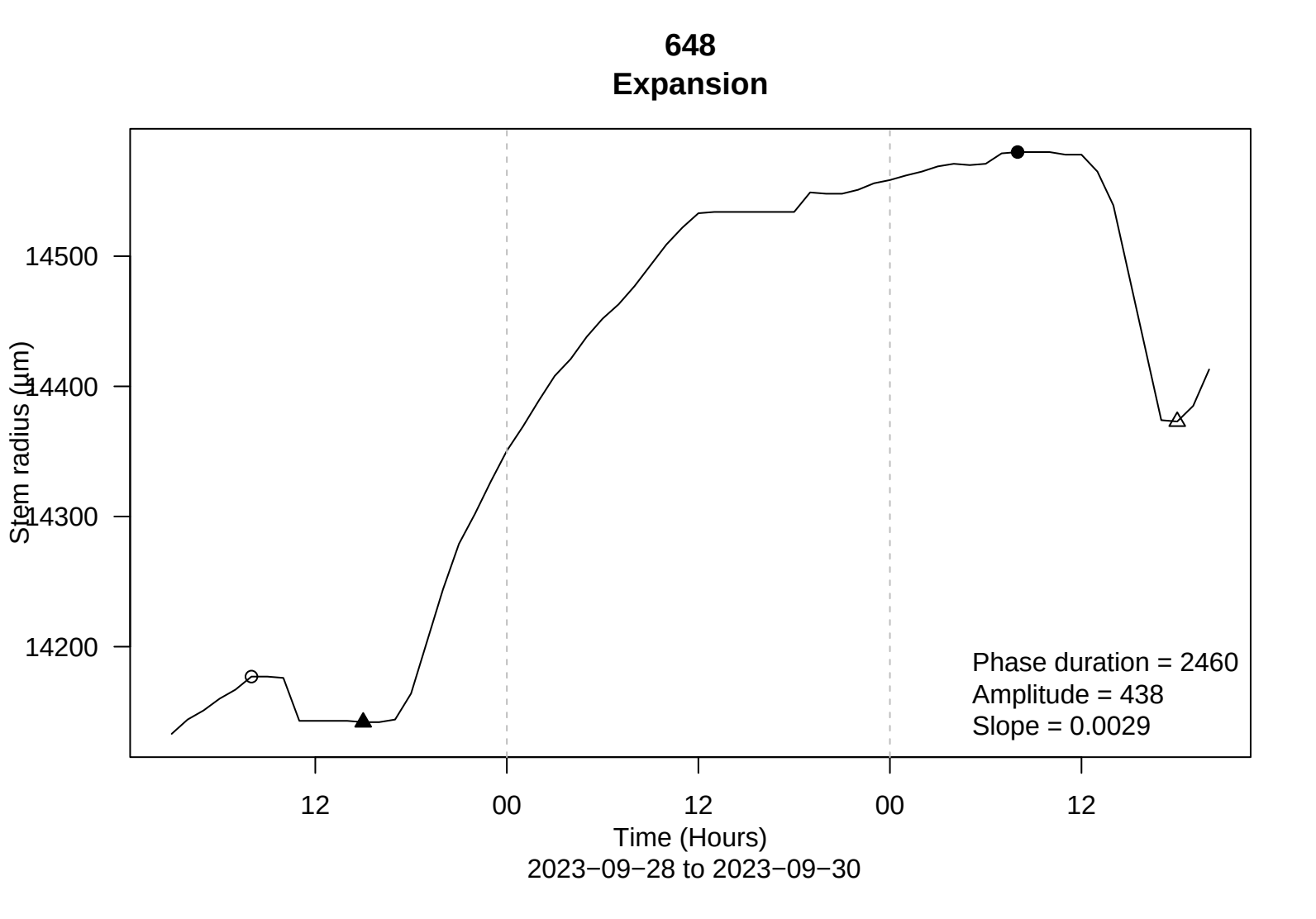

648
Shrinkage
13850
13800
13750
Stem radius (µm)
Phase duration = 300
Amplitude = −153
Slope = −0.0094
00
06
12
18
00
Time (Hours)
2023−09−26 to 2023−09−26

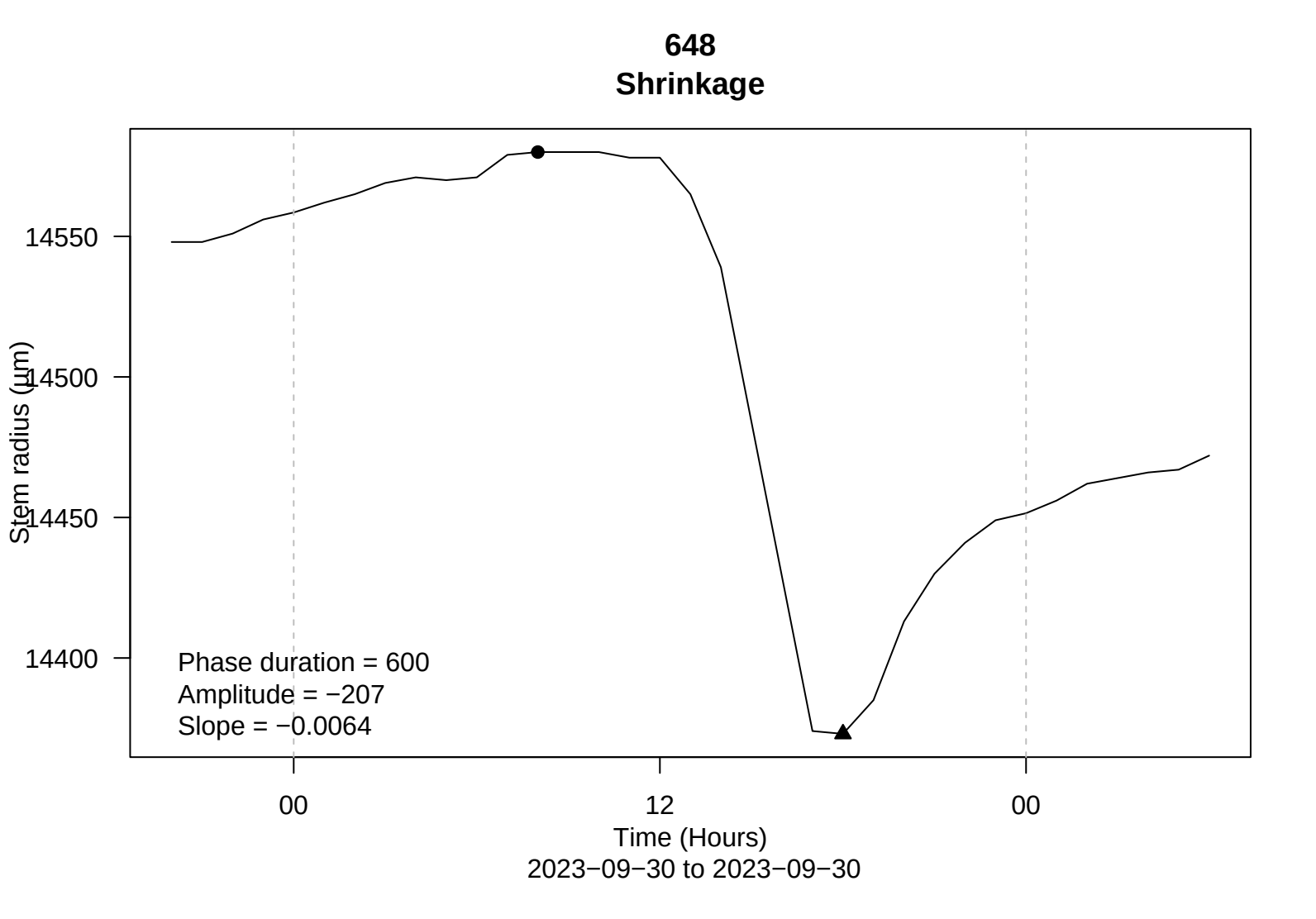

648
Expansion
14000
13950
13900
13850
13800
13750
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−26 to 2023−09−27
Phase duration = 1020
Amplitude = 203
Slope = 0.0038

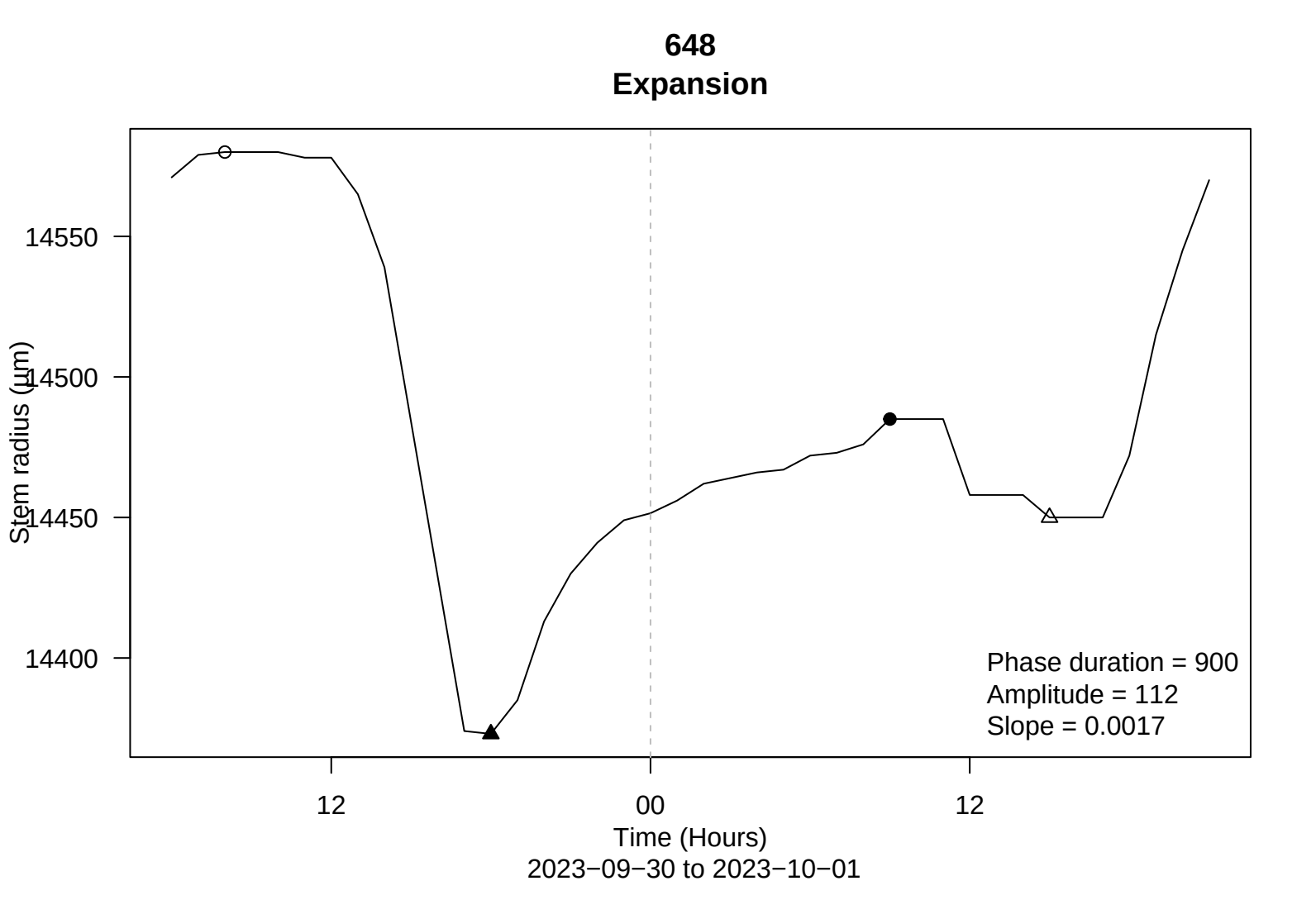

648
Shrinkage
14100
14000
13900
13800
Stem radius (µm)
Phase duration = 420
Amplitude = −18
Slope = −8e−04
00
06
12
18
00
Time (Hours)
2023−09−27 to 2023−09−27

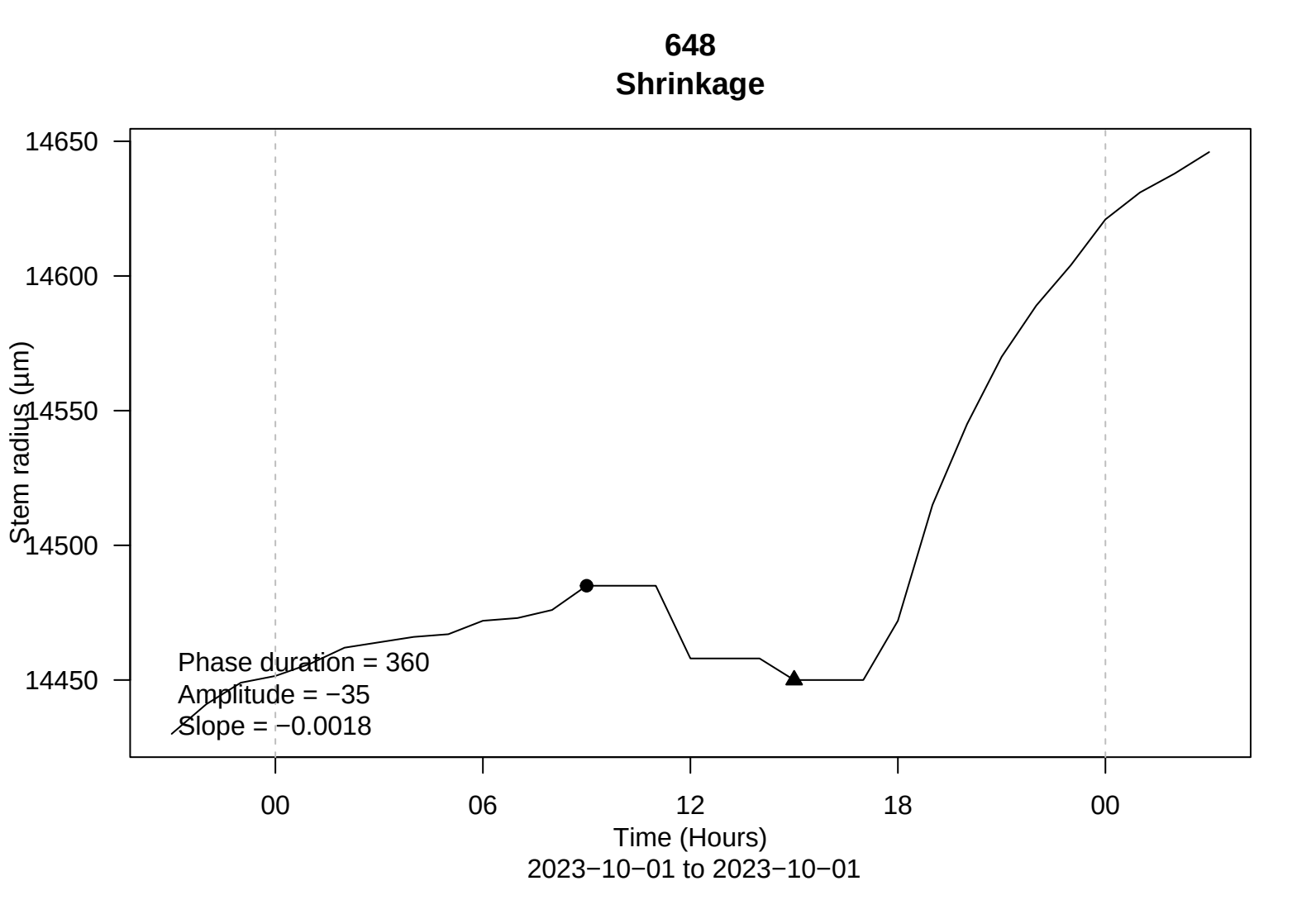

648
Expansion
14200
14100
14000
13900
Stem radius (µm)
12
00
12
Time (Hours)
2023−09−27 to 2023−09−28
Phase duration = 960
Amplitude = 260
Slope = 0.0048

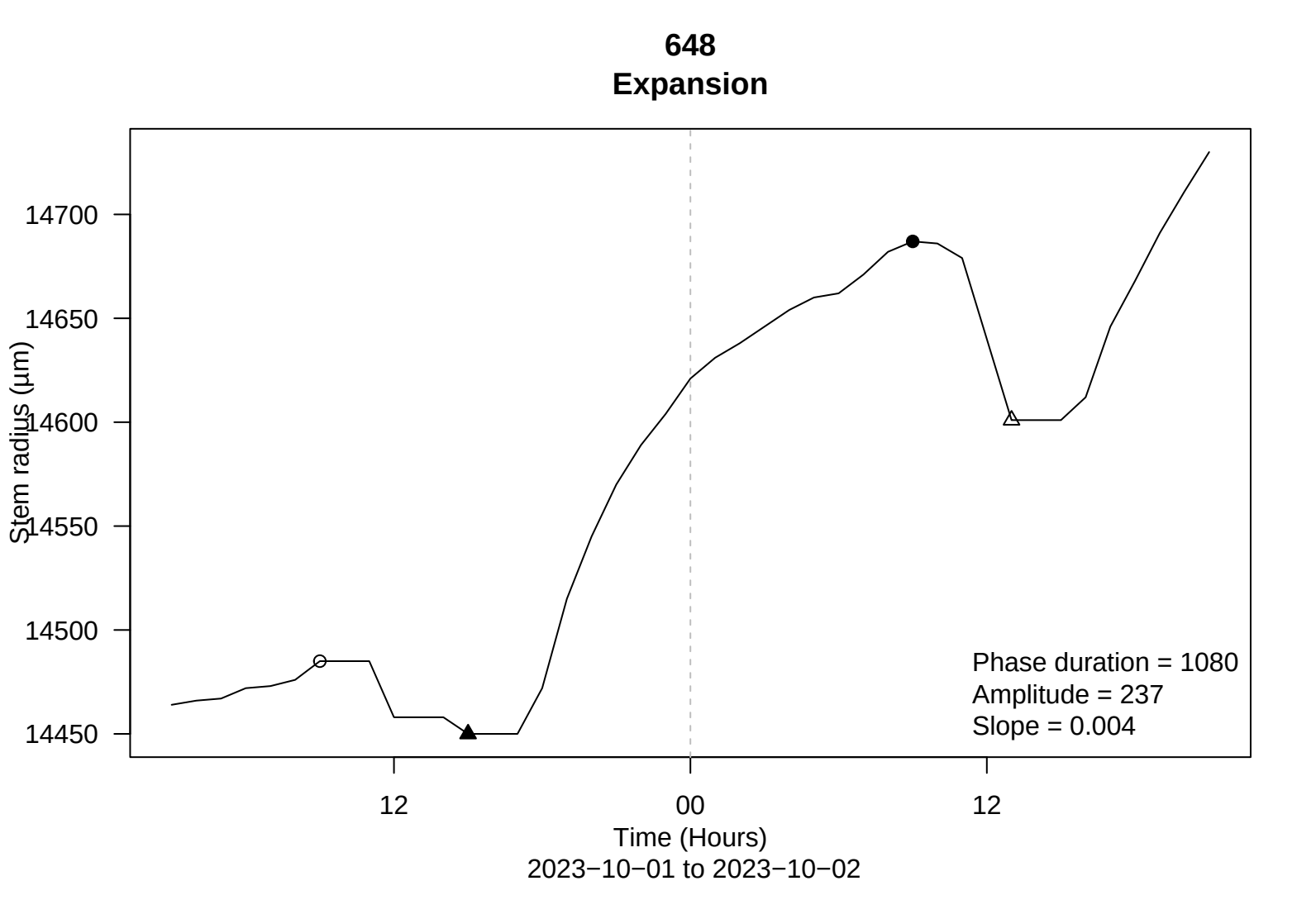

648
Shrinkage
14400
14300
14200
14100
14000
Stem radius (µm)
Phase duration = 420
Amplitude = −35
Slope = −0.0017
00
06
12
18
00
Time (Hours)
2023−09−28 to 2023−09−28

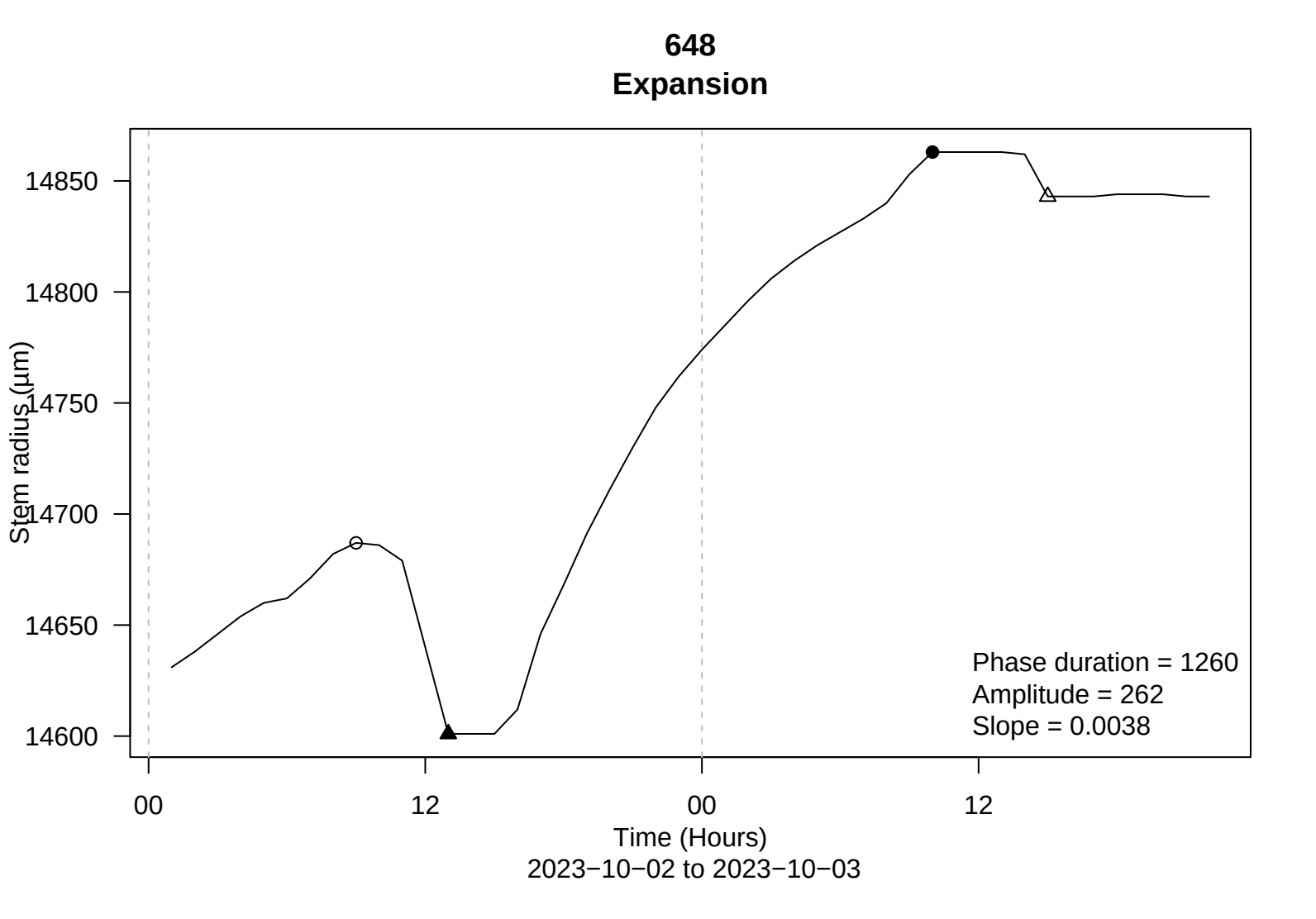

648
Expansion
14500
14400
14300
14200
Stem radius (µm)
Phase duration = 2460
Amplitude = 438
Slope = 0.0029
12
00
12
00
12
Time (Hours)
2023−09−28 to 2023−09−30

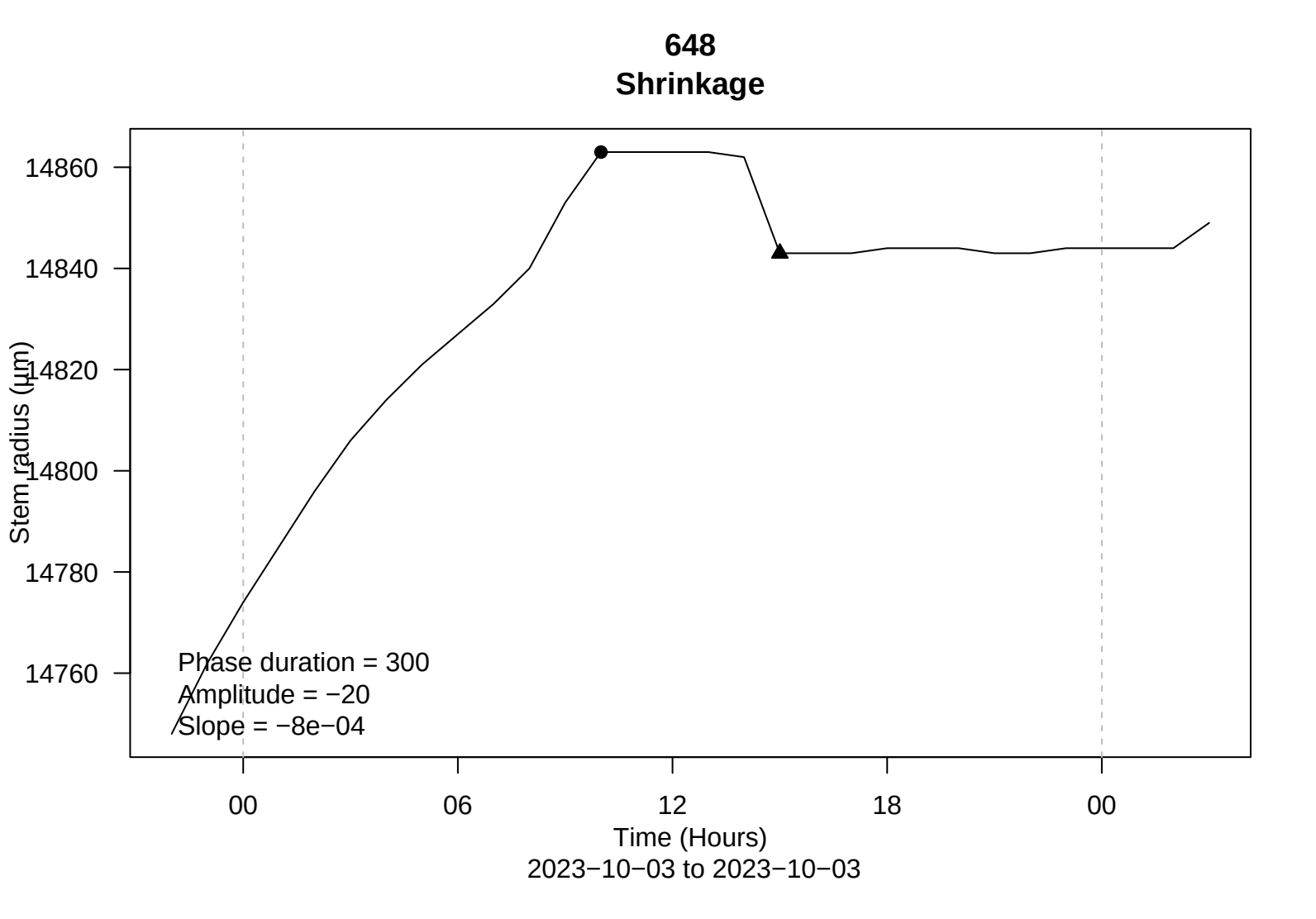

648
Shrinkage
14550
14500
14450
14400
Stem radius (µm)
Phase duration = 600
Amplitude = −207
Slope = −0.0064
00
12
00
Time (Hours)
2023−09−30 to 2023−09−30

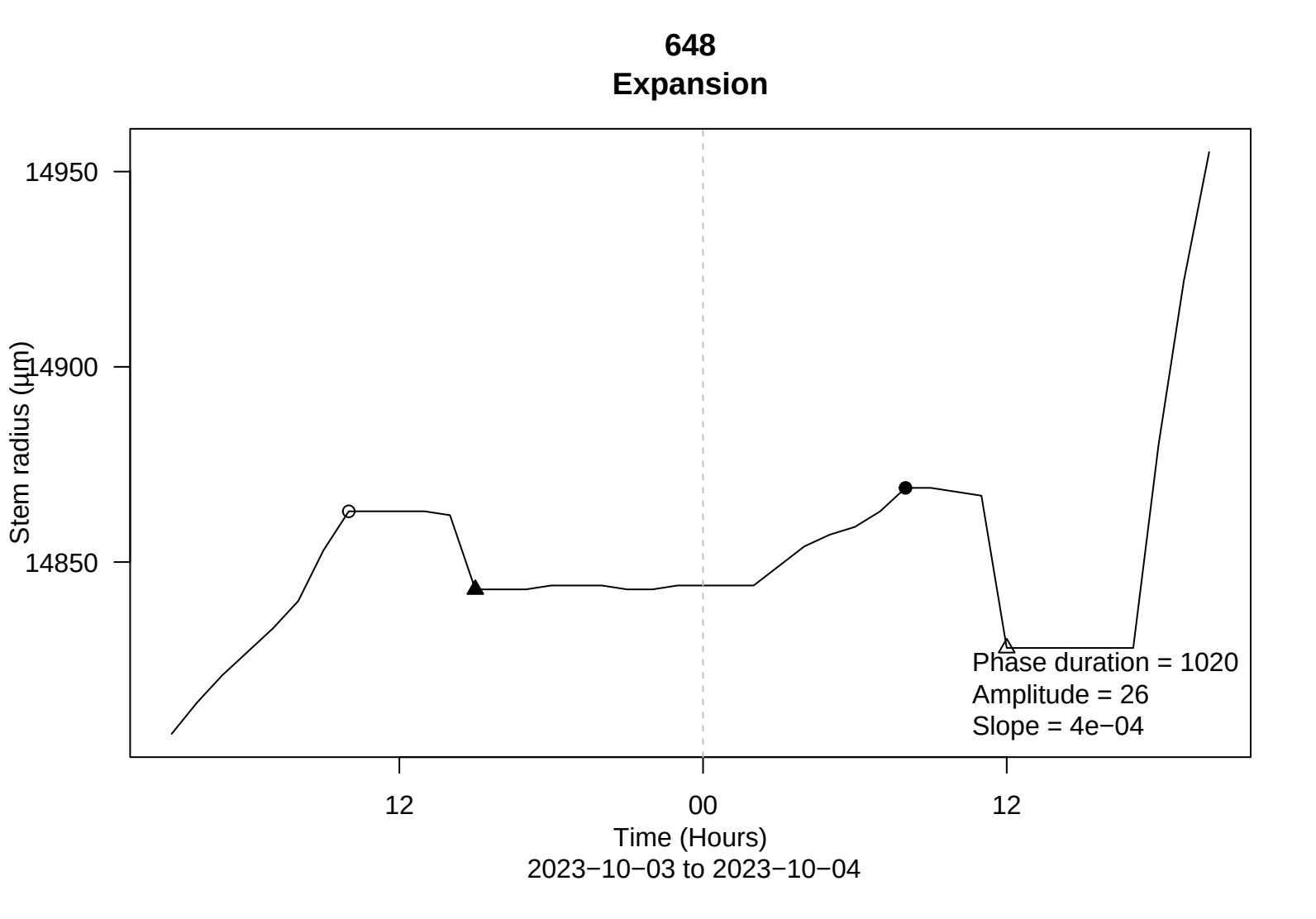

648
Expansion
14550
14500
14450
14400
Stem radius (µm)
Phase duration = 900
Amplitude = 112
Slope = 0.0017
12
00
12
Time (Hours)
2023−09−30 to 2023−10−01

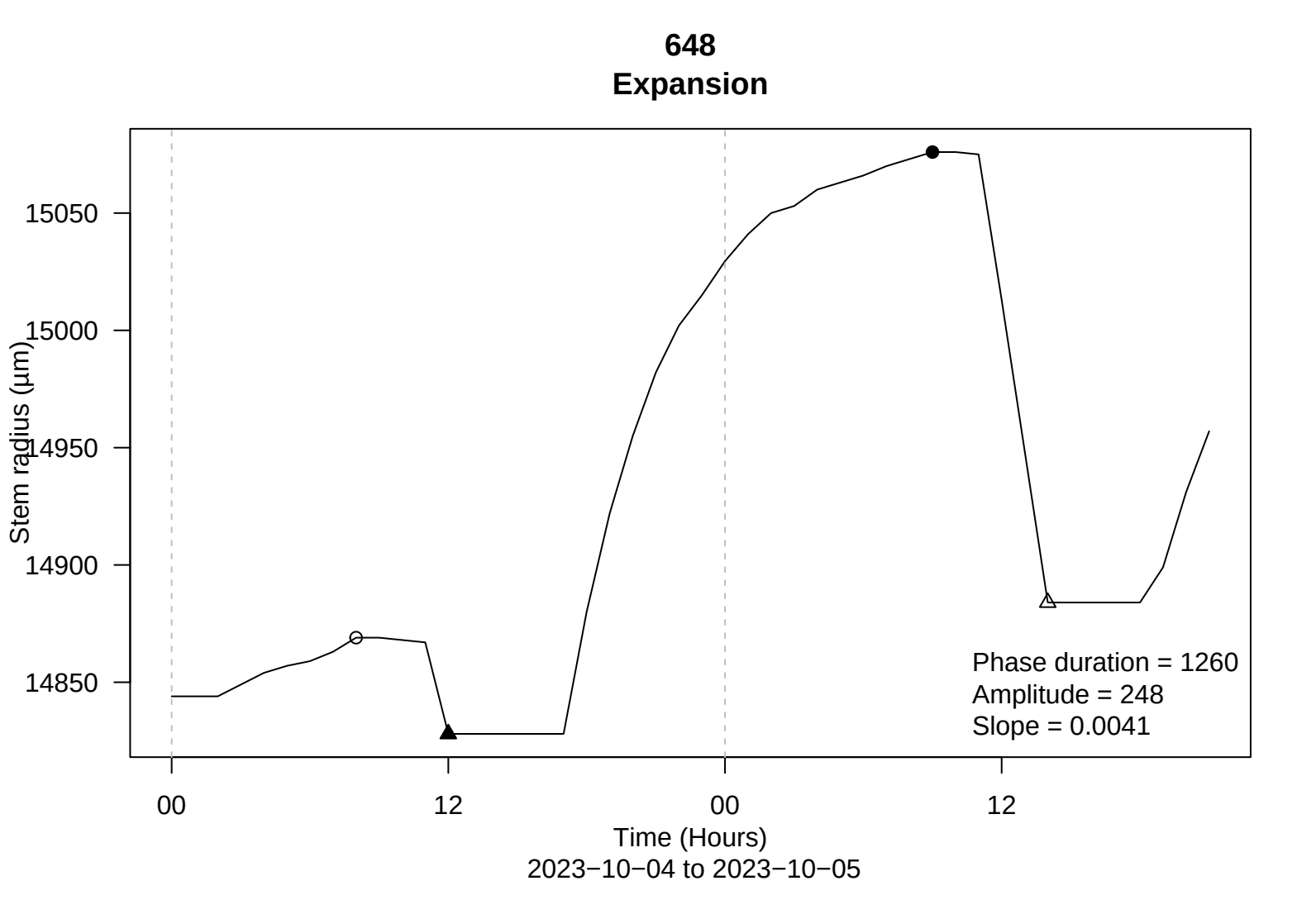

648
Shrinkage
14650
14600
14550
14500
14450
Stem radius (µm)
Phase duration = 360
Amplitude = −35
Slope = −0.0018
00
06
12
18
00
Time (Hours)
2023−10−01 to 2023−10−01

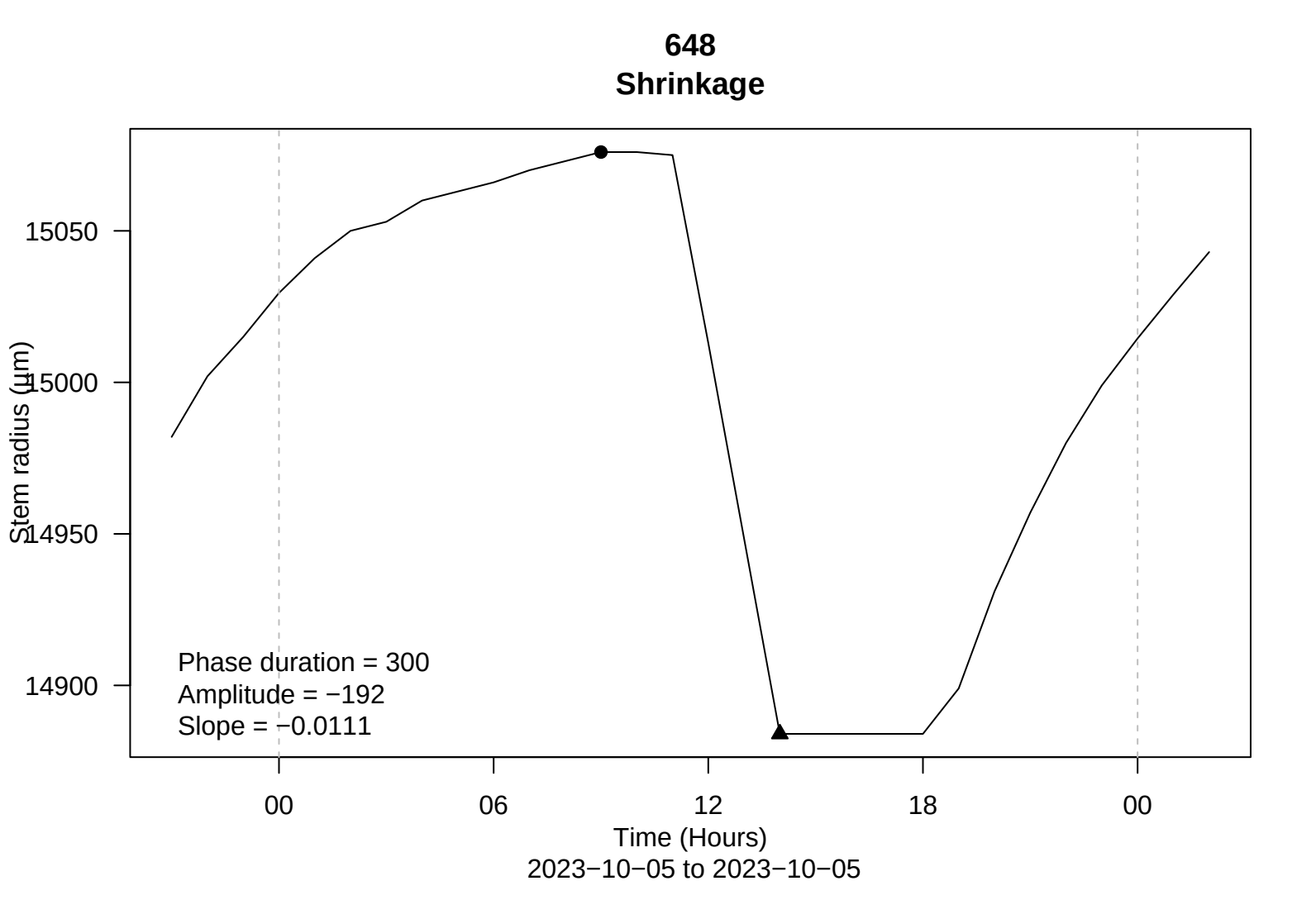

648
Expansion
14700
14650
14600
14550
14500
14450
Stem radius (µm)
Phase duration = 1080
Amplitude = 237
Slope = 0.004
12
00
12
Time (Hours)
2023−10−01 to 2023−10−02

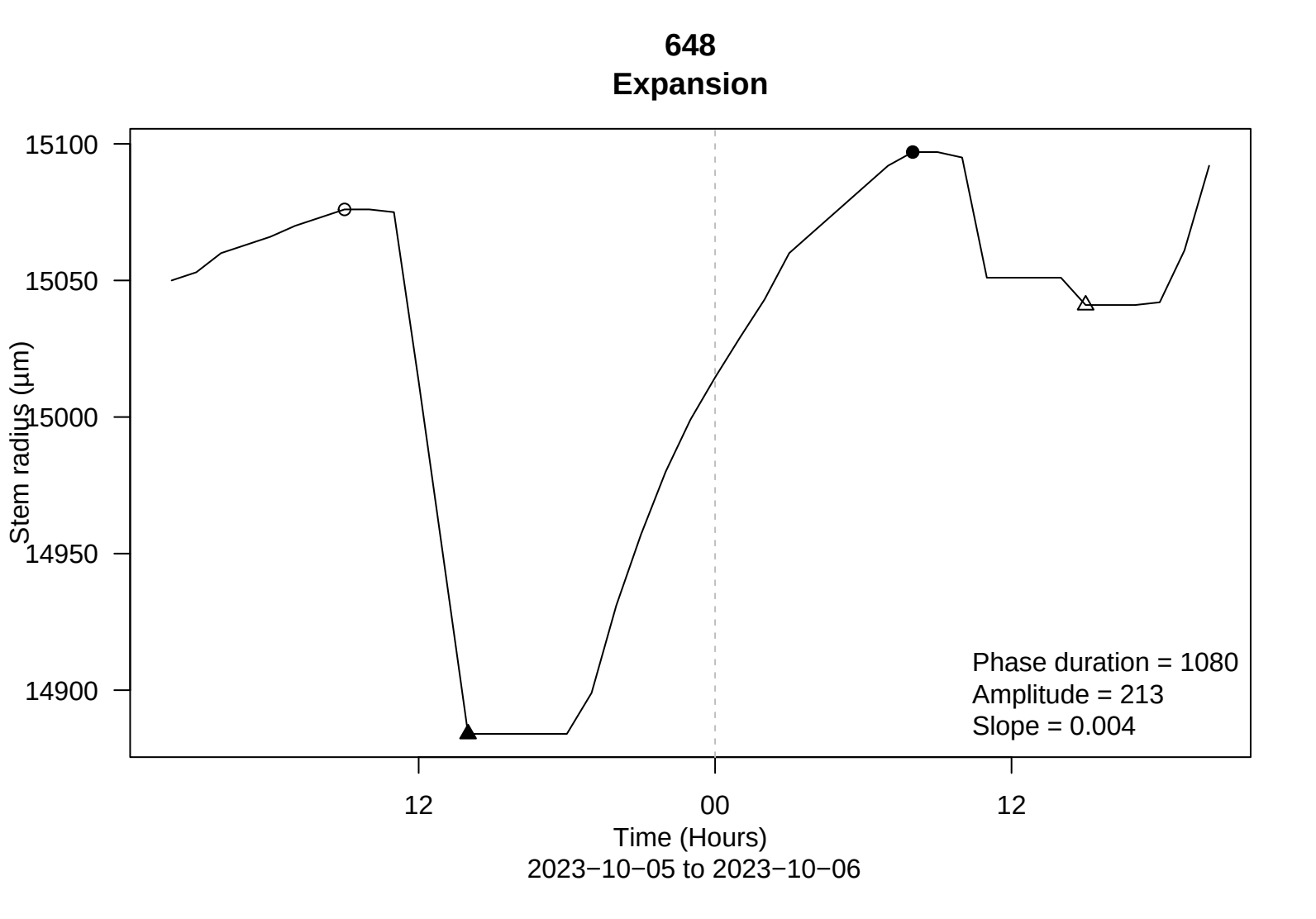

648
Expansion
14850
14800
14750
14700
14650
14600
Stem radius (µm)
Phase duration = 1260
Amplitude = 262
Slope = 0.0038
00
12
00
12
Time (Hours)
2023−10−02 to 2023−10−03

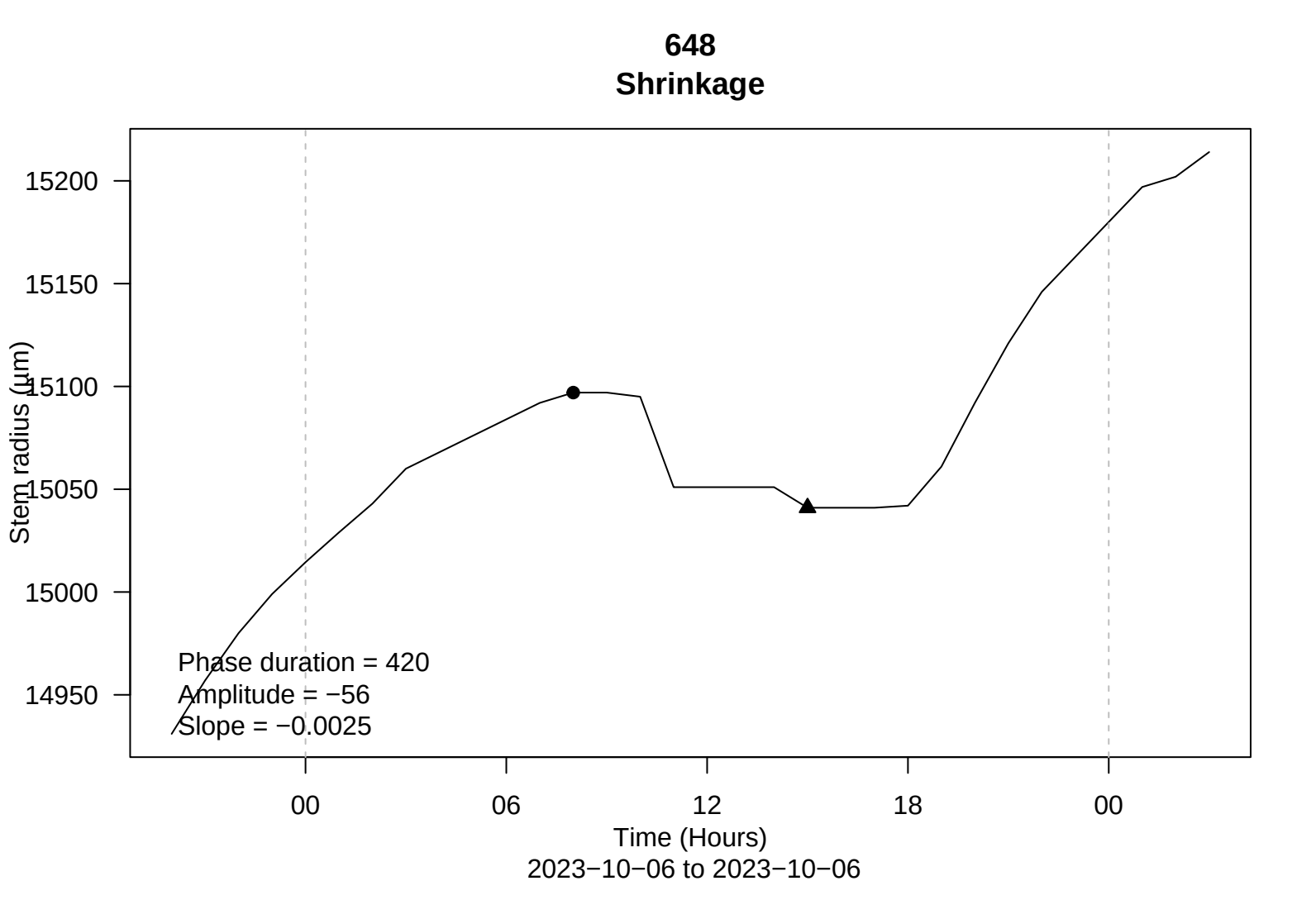

648
Shrinkage
14860
14840
14820
14800
14780
14760
Stem radius (µm)
Phase duration = 300
Amplitude = −20
Slope = −8e−04
00
06
12
18
00
Time (Hours)
2023−10−03 to 2023−10−03

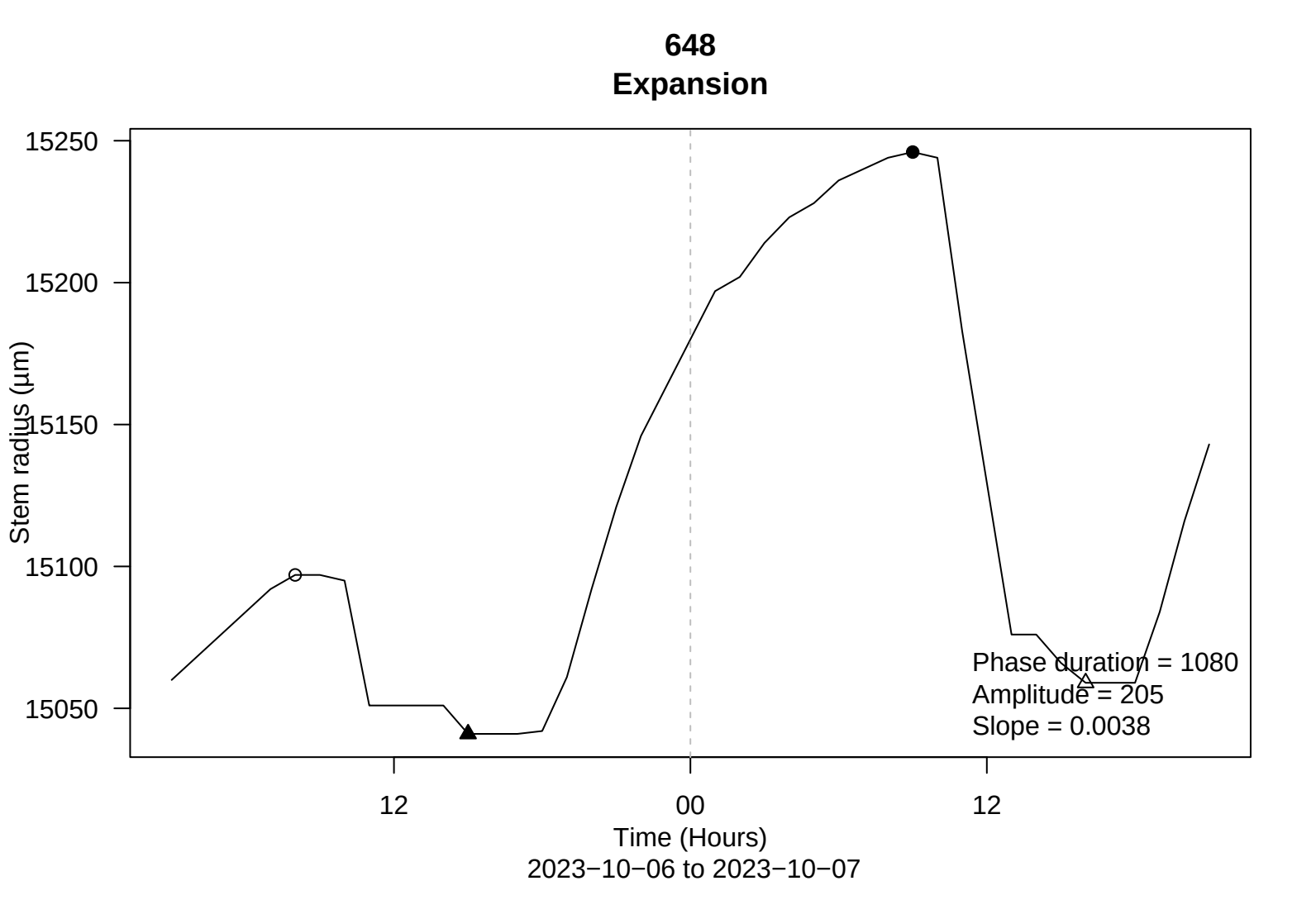

648
Expansion
14950
14900
14850
Stem radius (µm)
Phase duration = 1020
Amplitude = 26
Slope = 4e−04
12
00
12
Time (Hours)
2023−10−03 to 2023−10−04

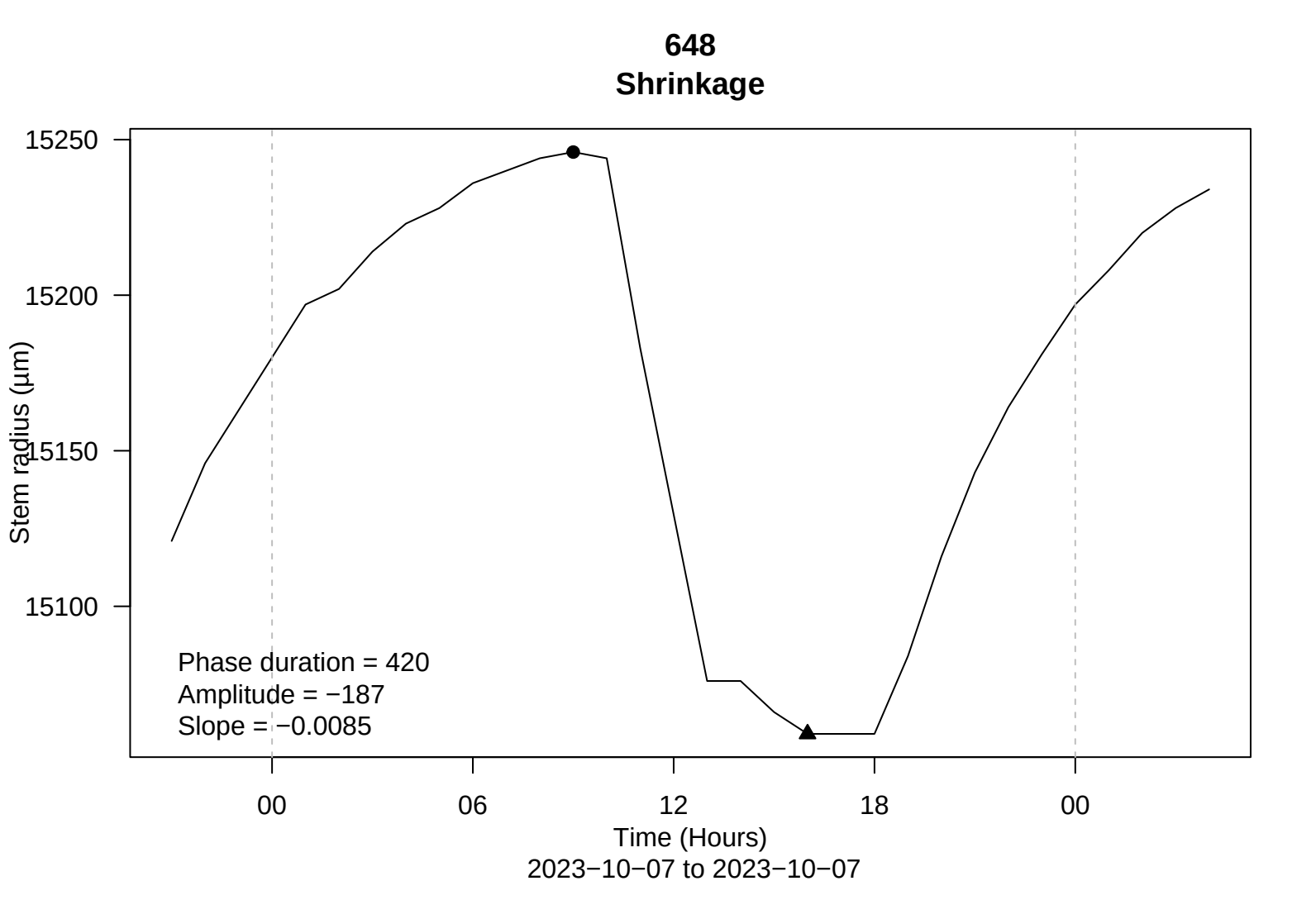

648
Expansion
15050
15000
14950
14900
14850
Stem radius (µm)
Phase duration = 1260
Amplitude = 248
Slope = 0.0041
00
12
00
12
Time (Hours)
2023−10−04 to 2023−10−05

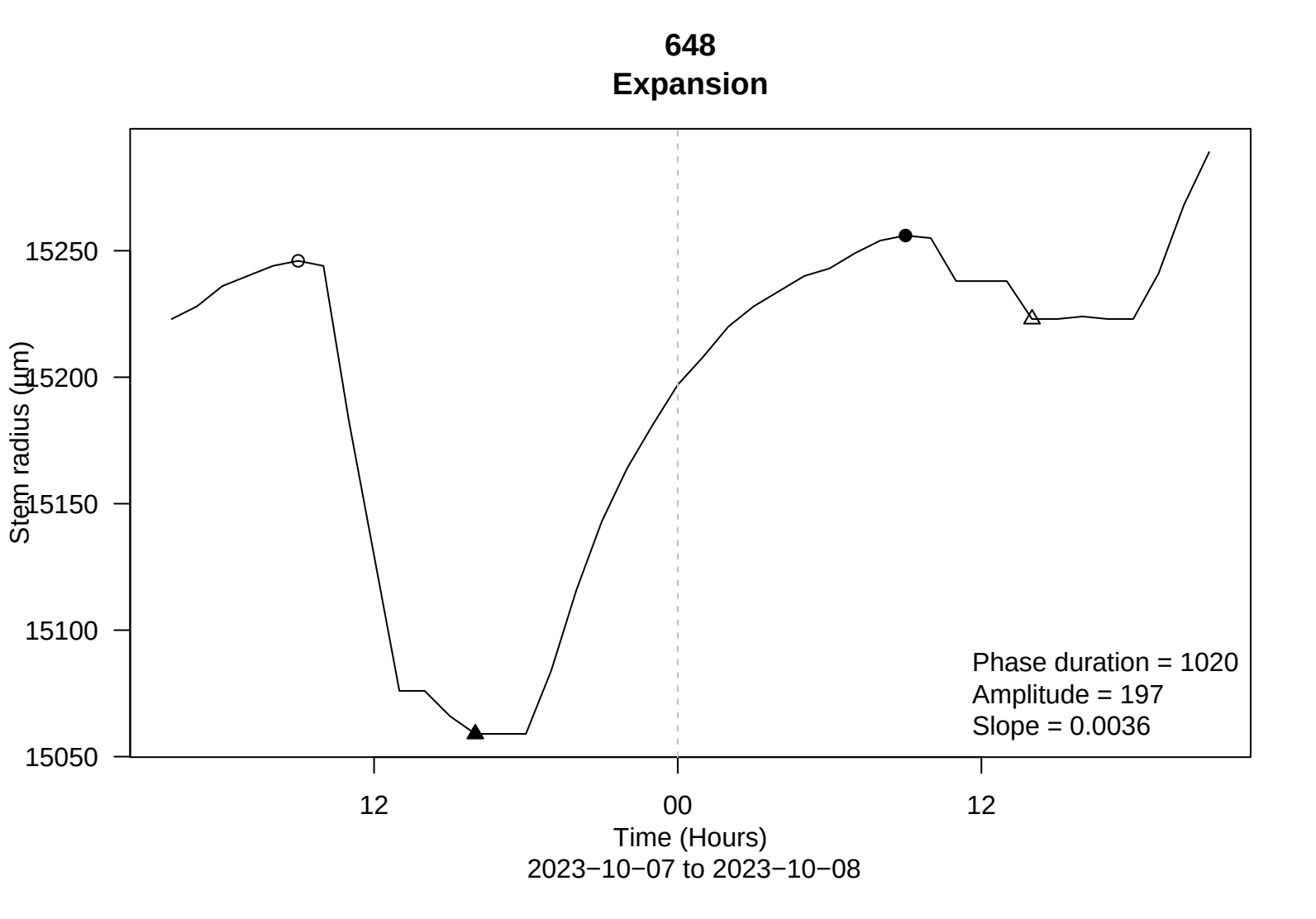

648
Shrinkage
15050
15000
14950
14900
Stem radius (µm)
Phase duration = 300
Amplitude = −192
Slope = −0.0111
00
06
12
18
00
Time (Hours)
2023−10−05 to 2023−10−05

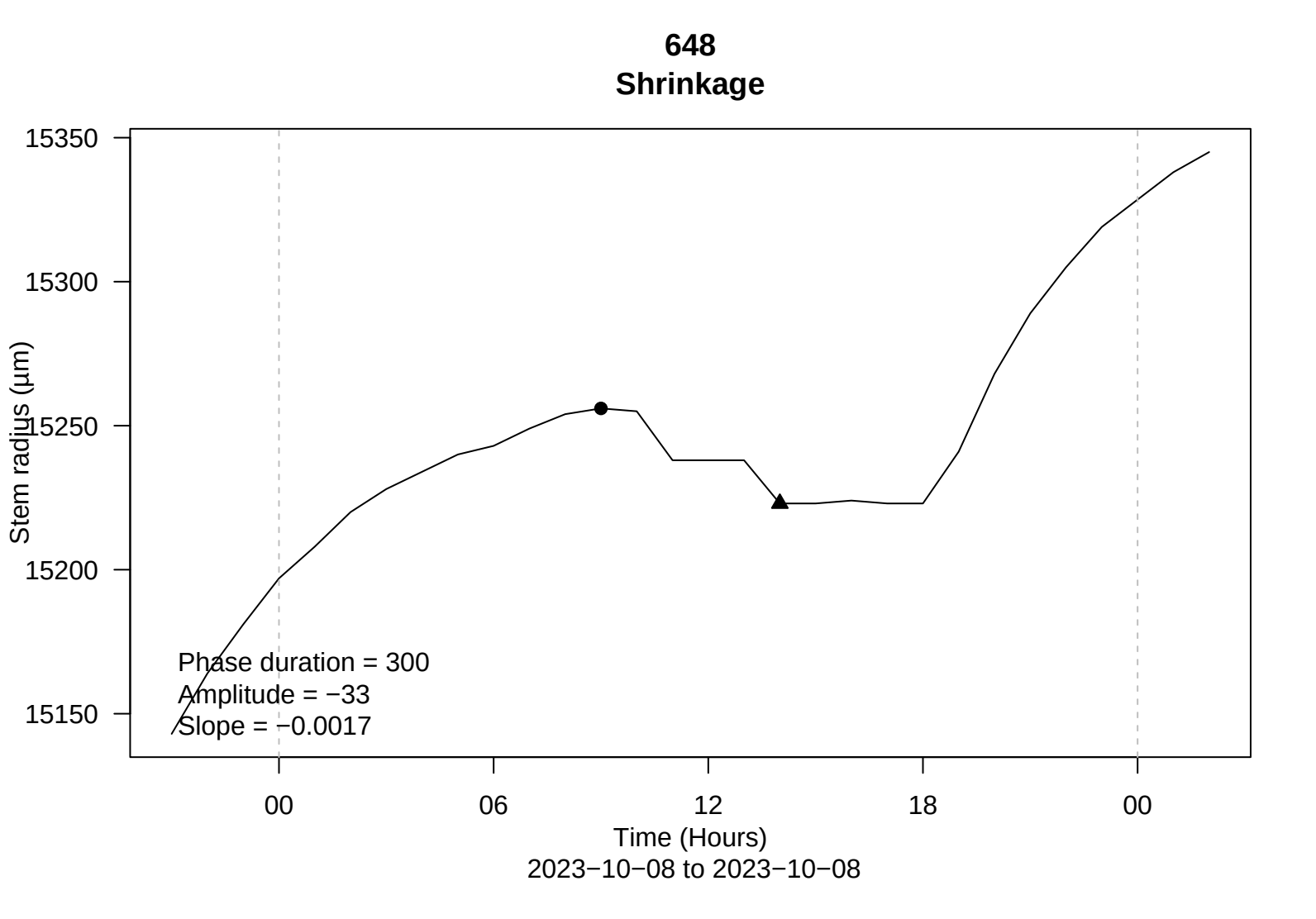

648
Expansion
15100
15050
15000
14950
14900
Stem radius (µm)
Phase duration = 1080
Amplitude = 213
Slope = 0.004
12
00
12
Time (Hours)
2023−10−05 to 2023−10−06

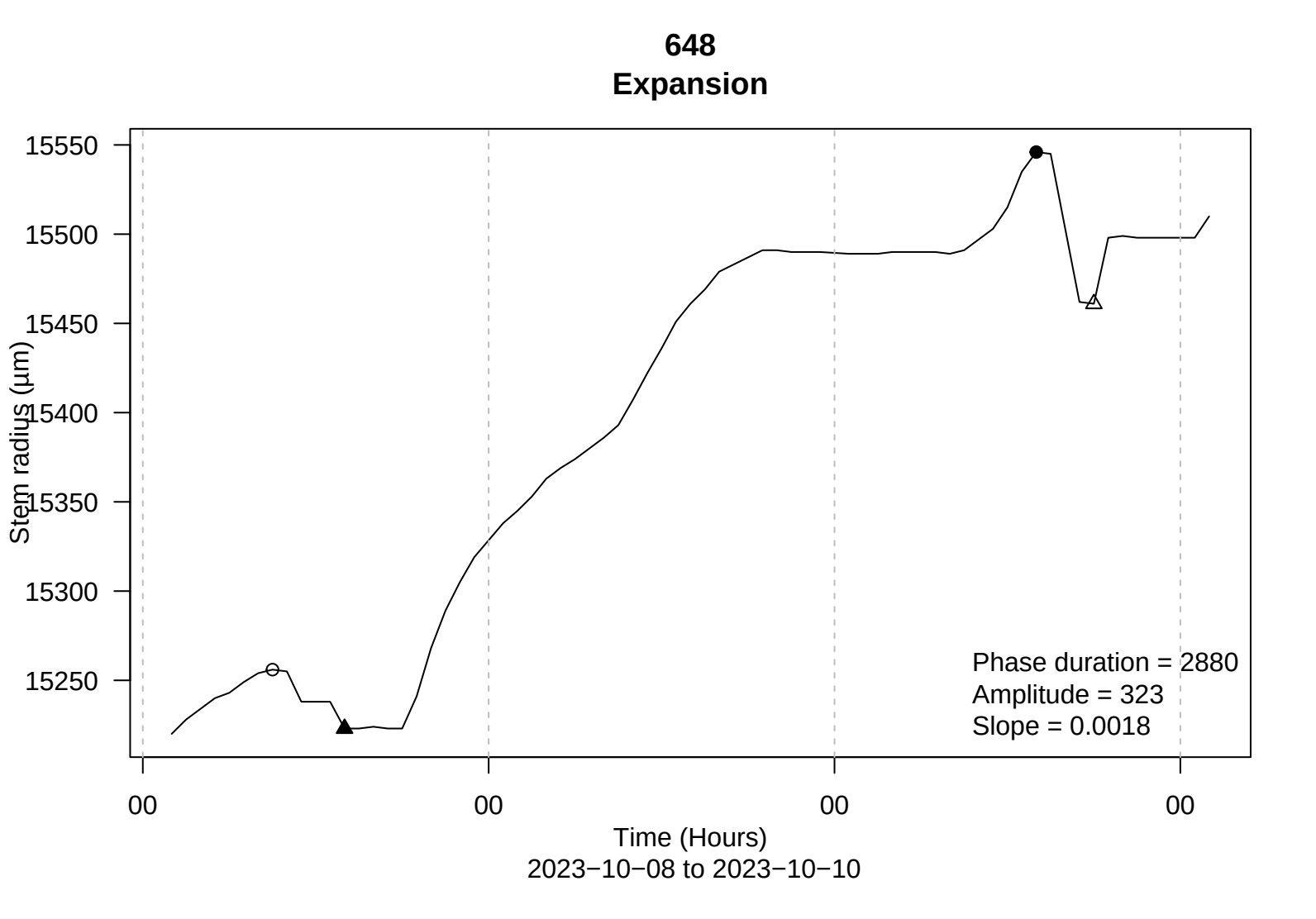

648
Shrinkage
15200
15150
15100
15050
15000
14950
Stem radius (µm)
Phase duration = 420
Amplitude = −56
Slope = −0.0025
00
06
12
18
00
Time (Hours)
2023−10−06 to 2023−10−06

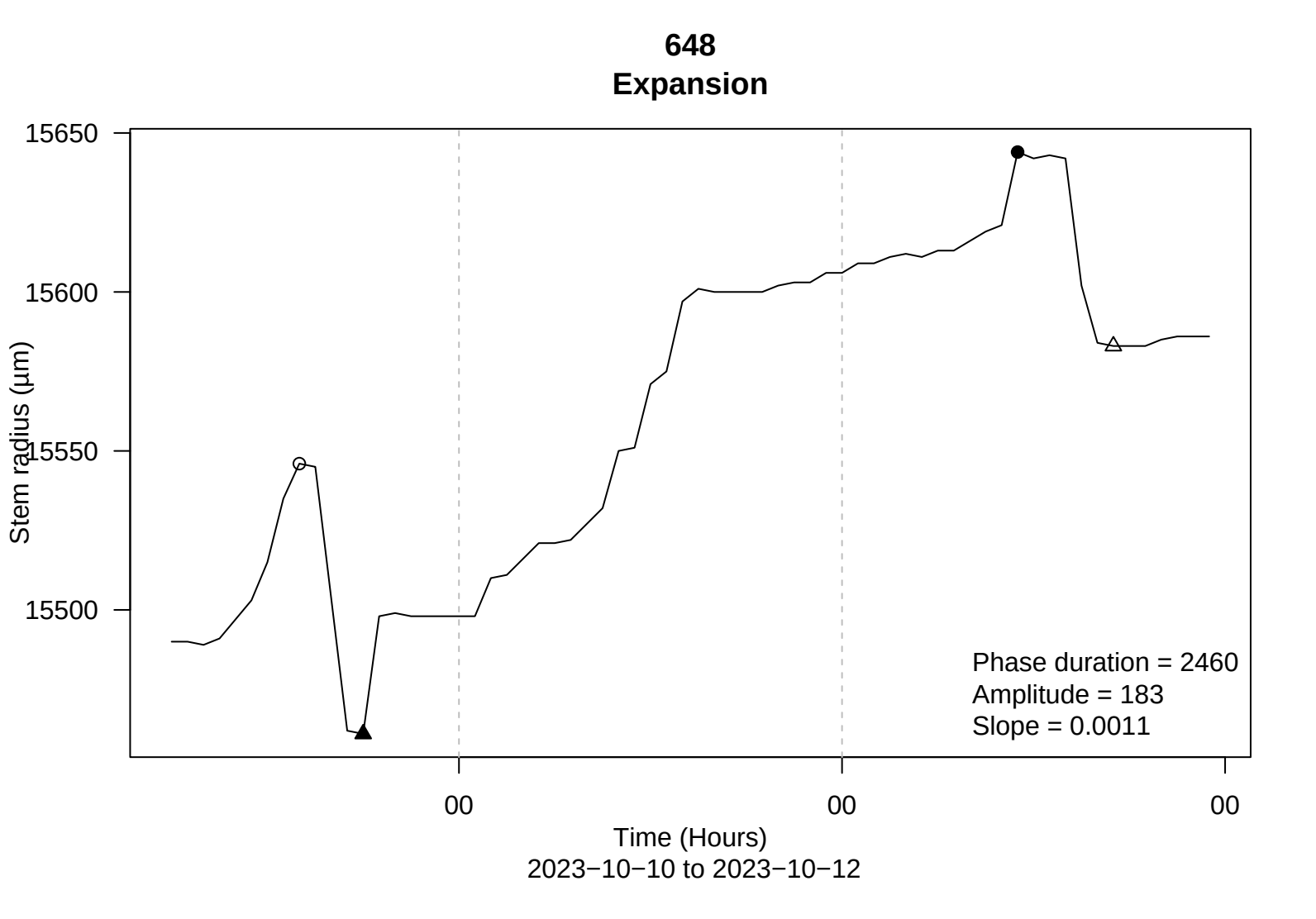

648
Expansion
15250
15200
15150
15100
15050
Stem radius (µm)
12
00
12
Time (Hours)
2023−10−06 to 2023−10−07
Phase duration = 1080
Amplitude = 205
Slope = 0.0038

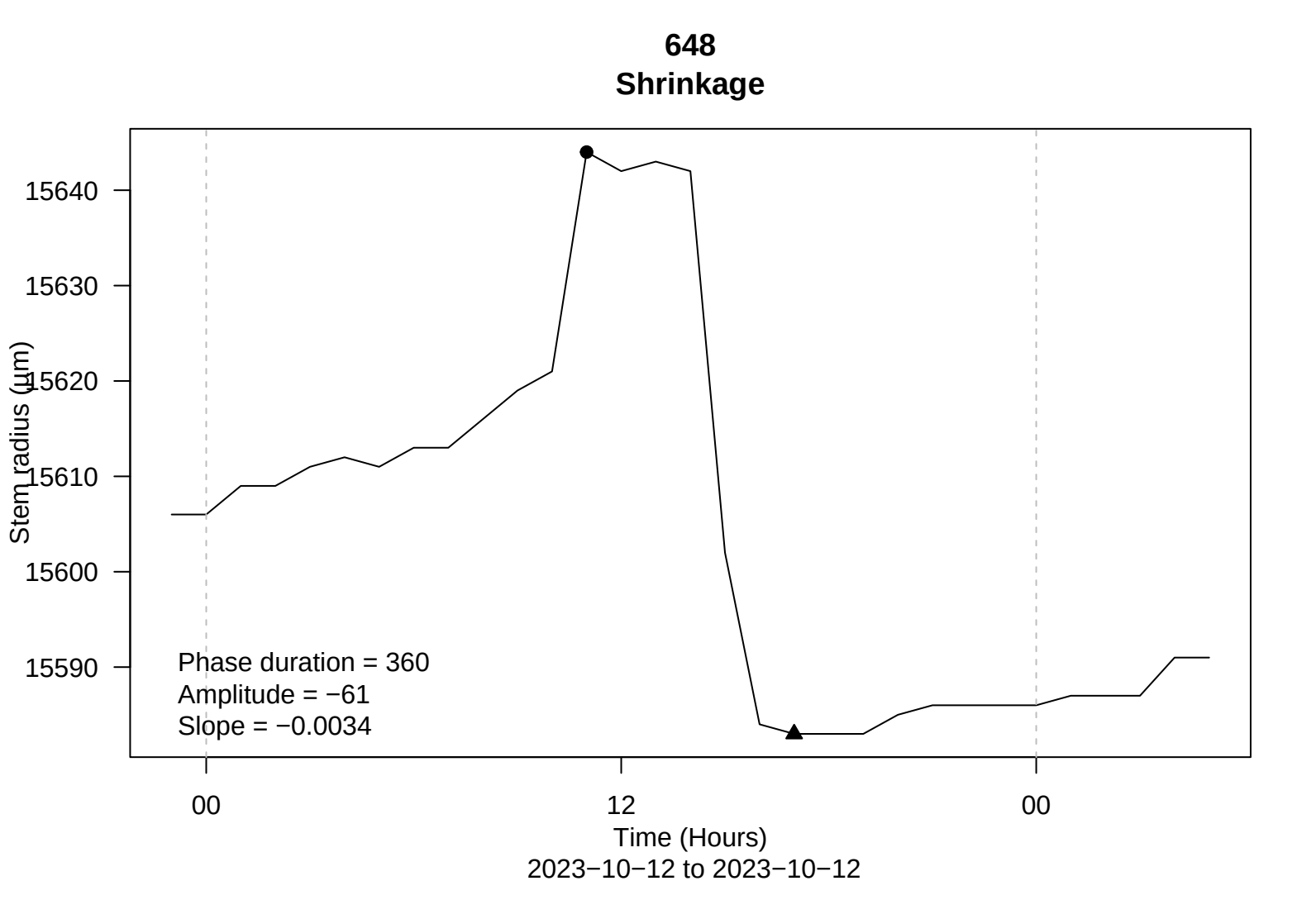

648
Shrinkage
15250
15200
15150
15100
Stem radius (µm)
Phase duration = 420
Amplitude = −187
Slope = −0.0085
00
06
12
18
00
Time (Hours)
2023−10−07 to 2023−10−07

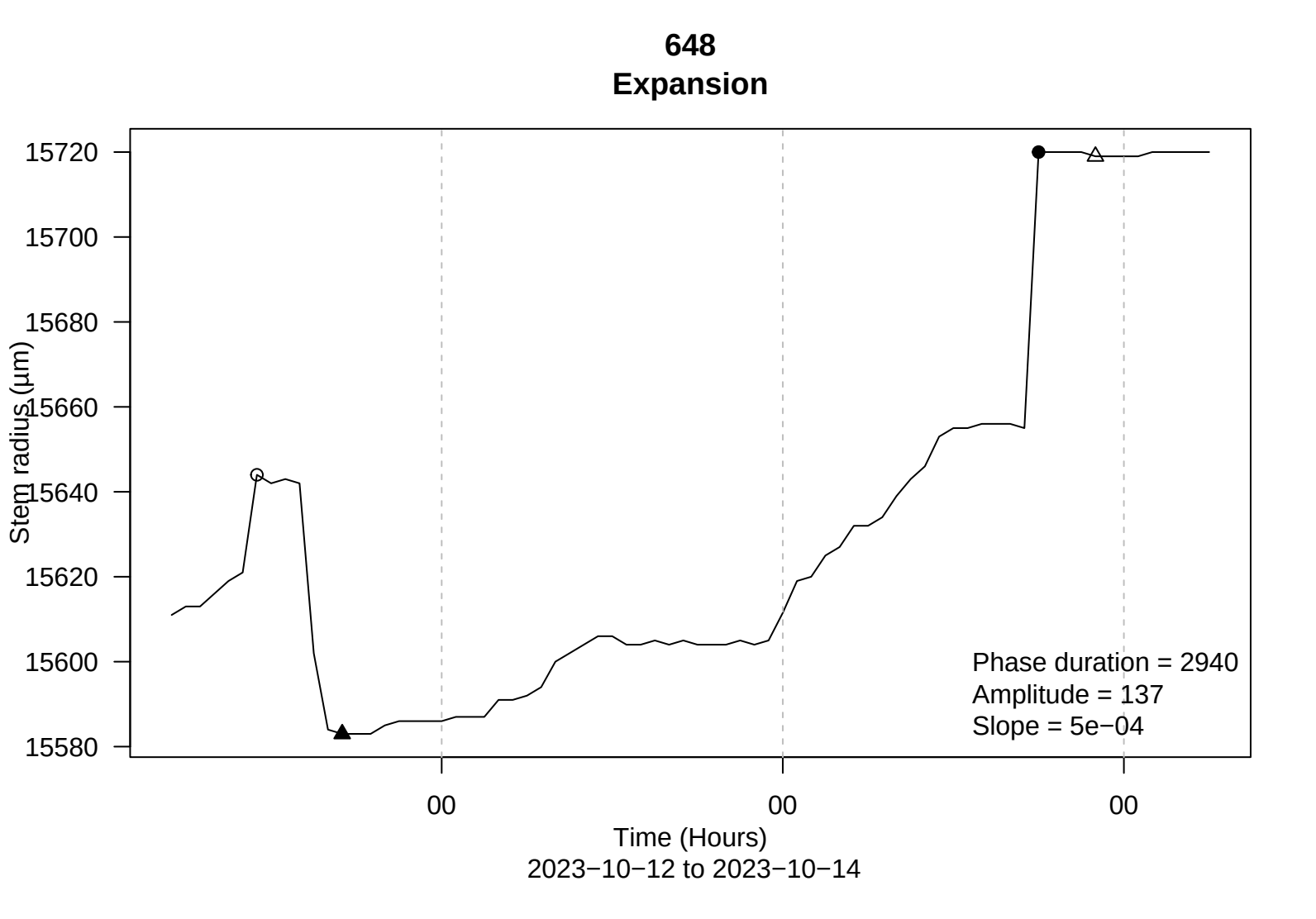

648
Expansion
15250
15200
15150
15100
15050
Stem radius (µm)
12
00
12
Time (Hours)
2023−10−07 to 2023−10−08
Phase duration = 1020
Amplitude = 197
Slope = 0.0036

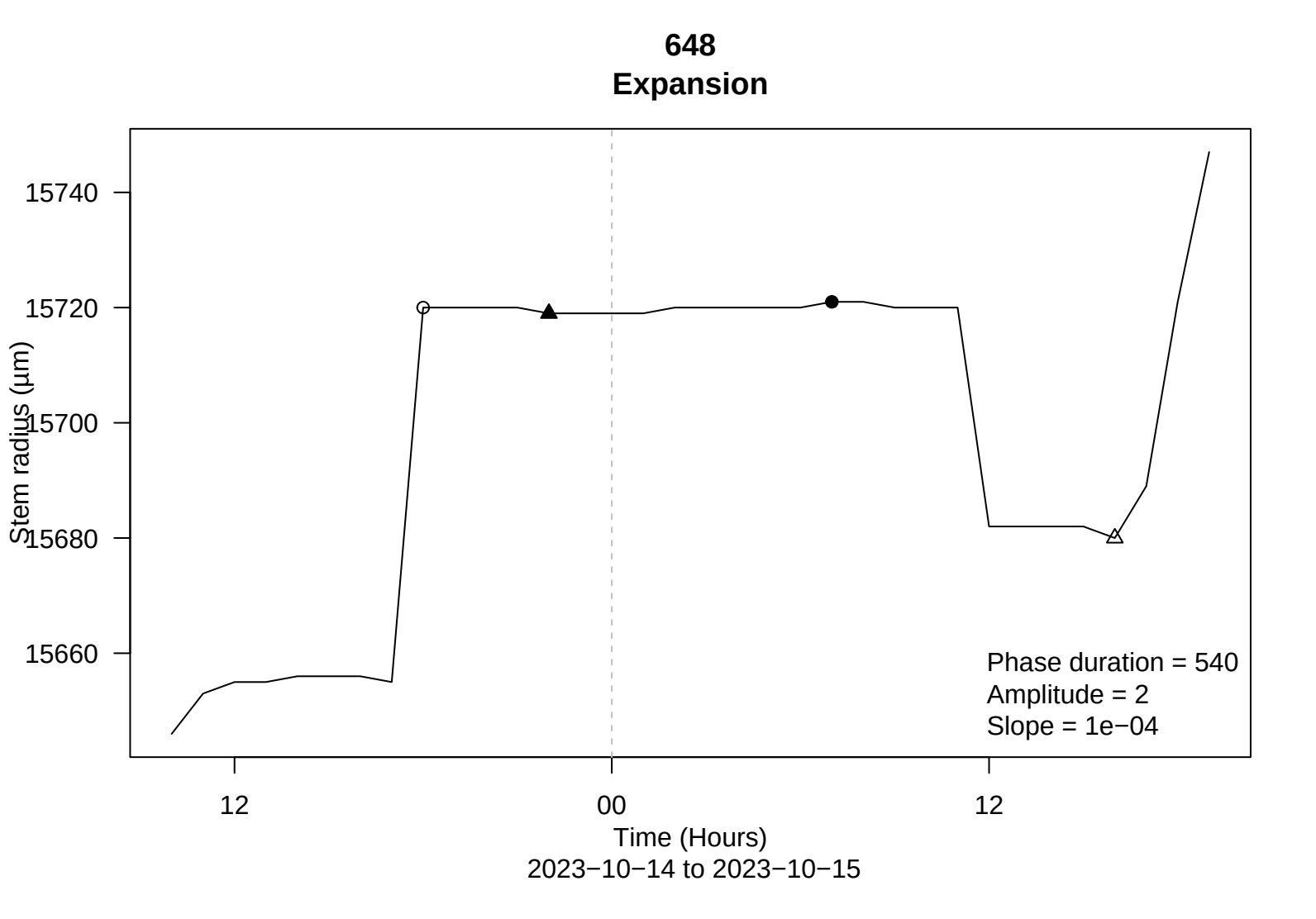

648
Shrinkage
15350
15300
15250
15200
15150
Stem radius (µm)
Phase duration = 300
Amplitude = −33
Slope = −0.0017
00
06
12
18
00
Time (Hours)
2023−10−08 to 2023−10−08

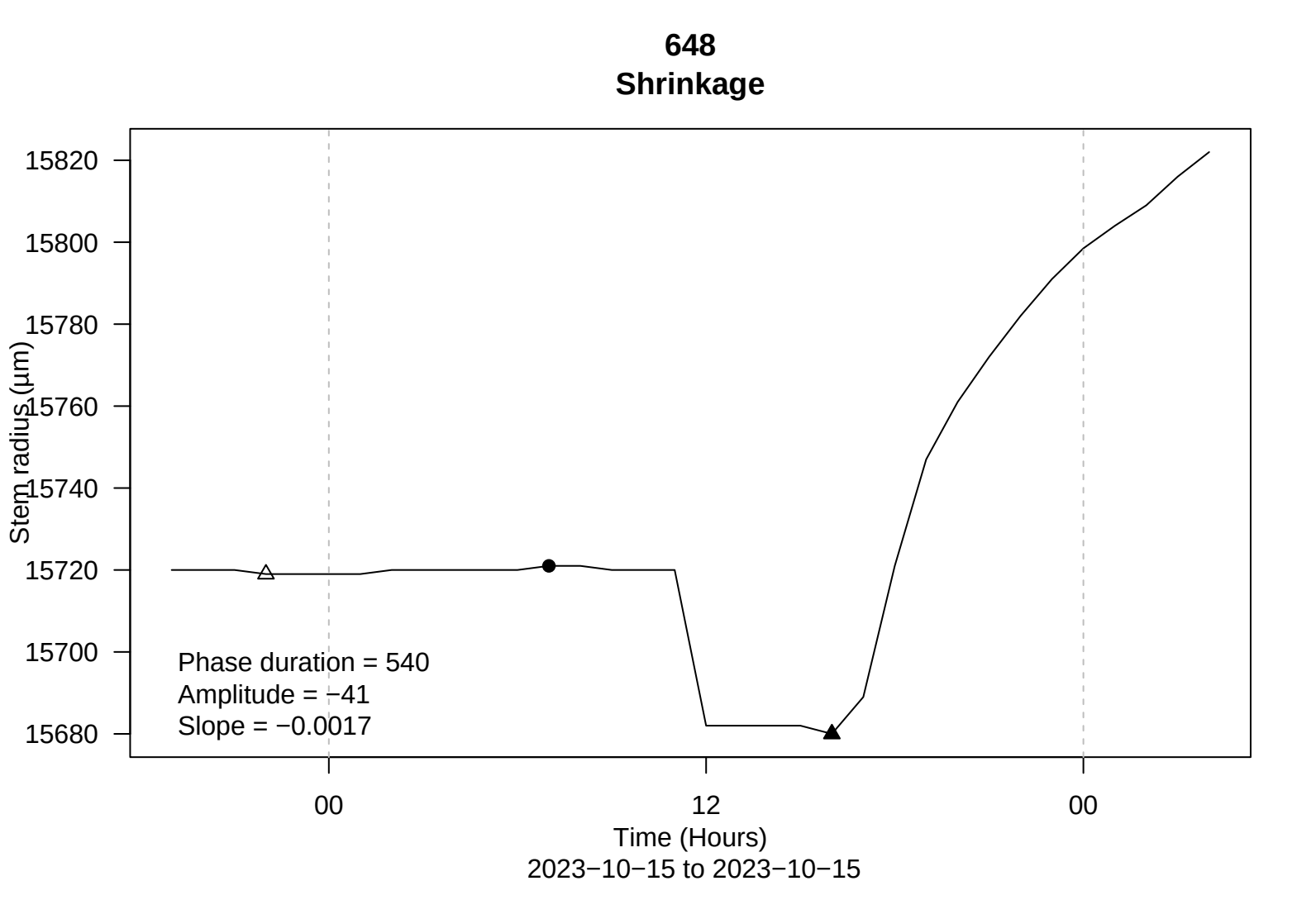

648
Expansion
15550
15500
15450
15400
15350
15300
15250
Stem radius (µm)
Phase duration = 2880
Amplitude = 323
Slope = 0.0018
00
00
00
00
Time (Hours)
2023−10−08 to 2023−10−10

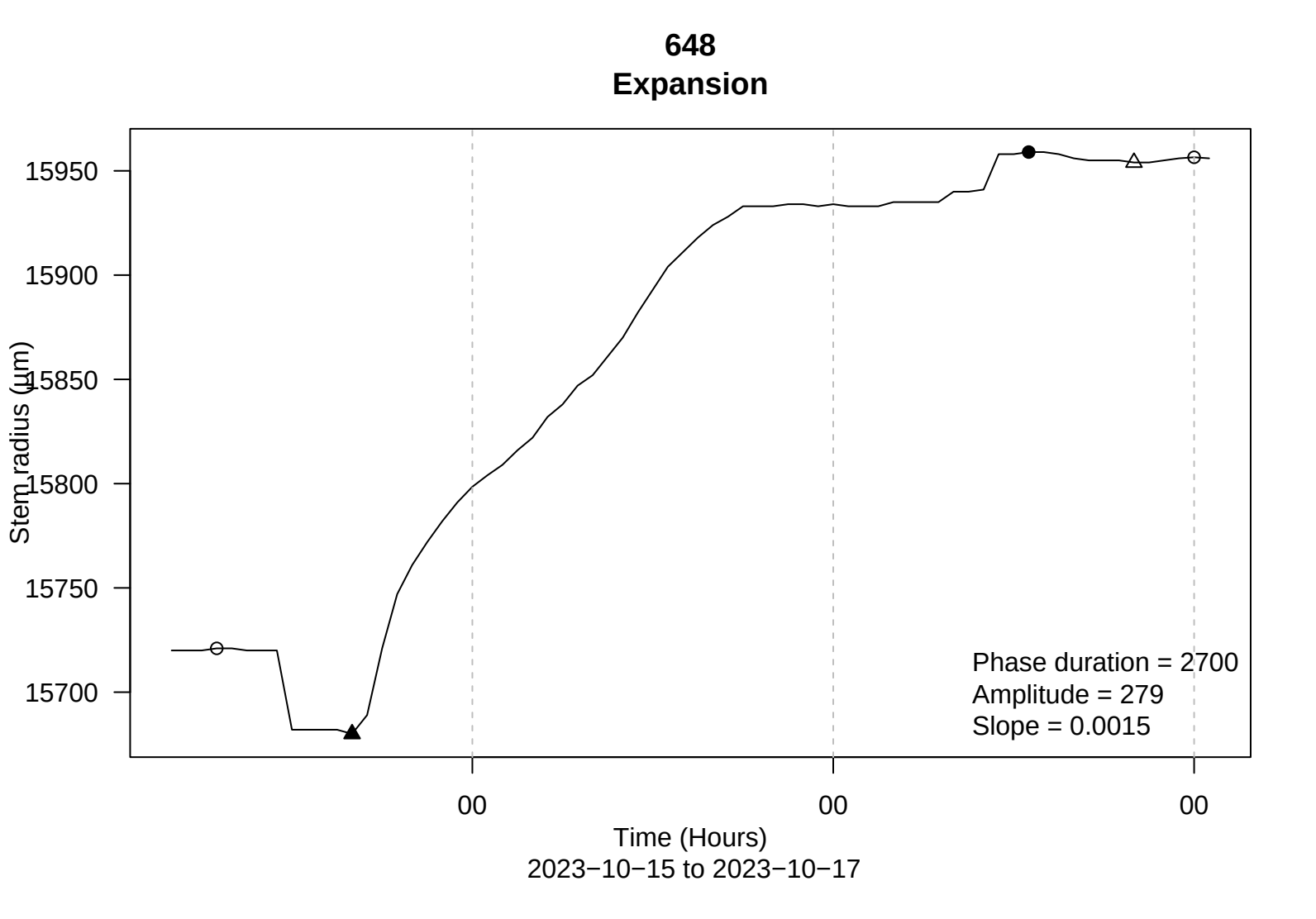

648
Expansion
15650
15600
15550
15500
Stem radius (µm)
Phase duration = 2460
Amplitude = 183
Slope = 0.0011
00
00
00
Time (Hours)
2023−10−10 to 2023−10−12

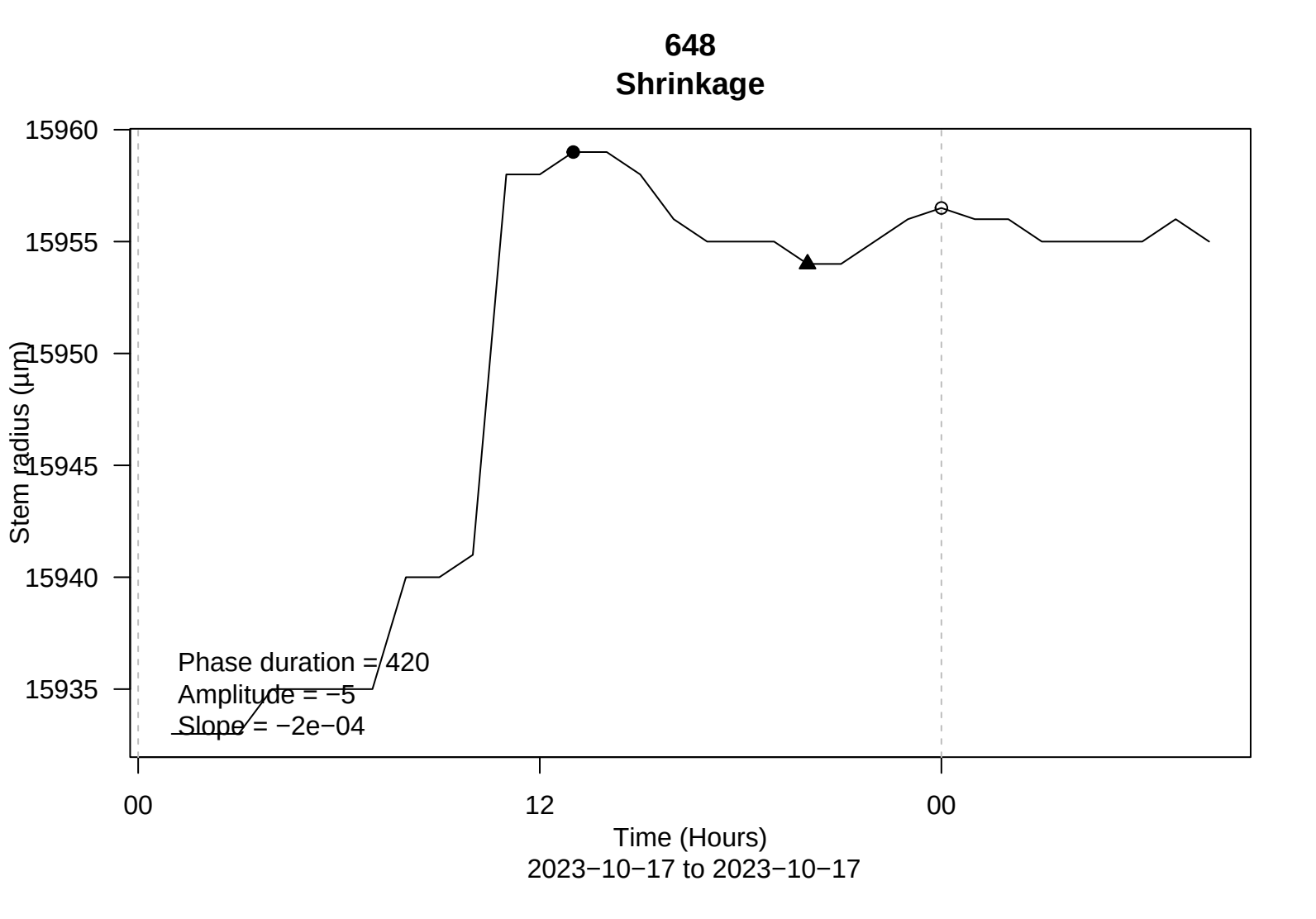

648
Shrinkage
15640
15630
15620
15610
15600
15590
Stem radius (µm)
Phase duration = 360
Amplitude = −61
Slope = −0.0034
00
12
00
Time (Hours)
2023−10−12 to 2023−10−12

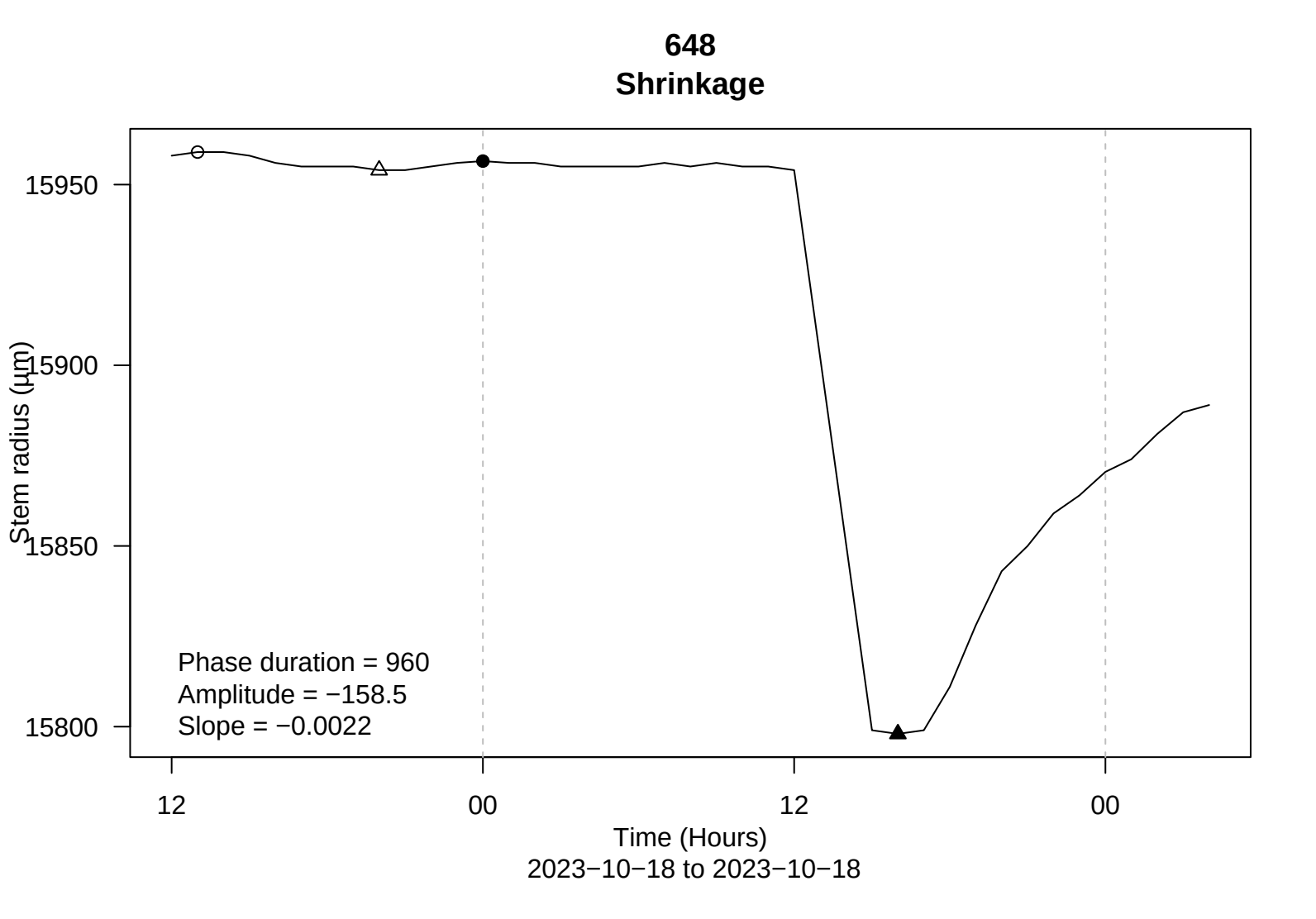

648
Expansion
15720
15700
15680
15660
15640
15620
15600
15580
Stem radius (µm)
00
00
00
Time (Hours)
2023−10−12 to 2023−10−14
Phase duration = 2940
Amplitude = 137
Slope = 5e−04

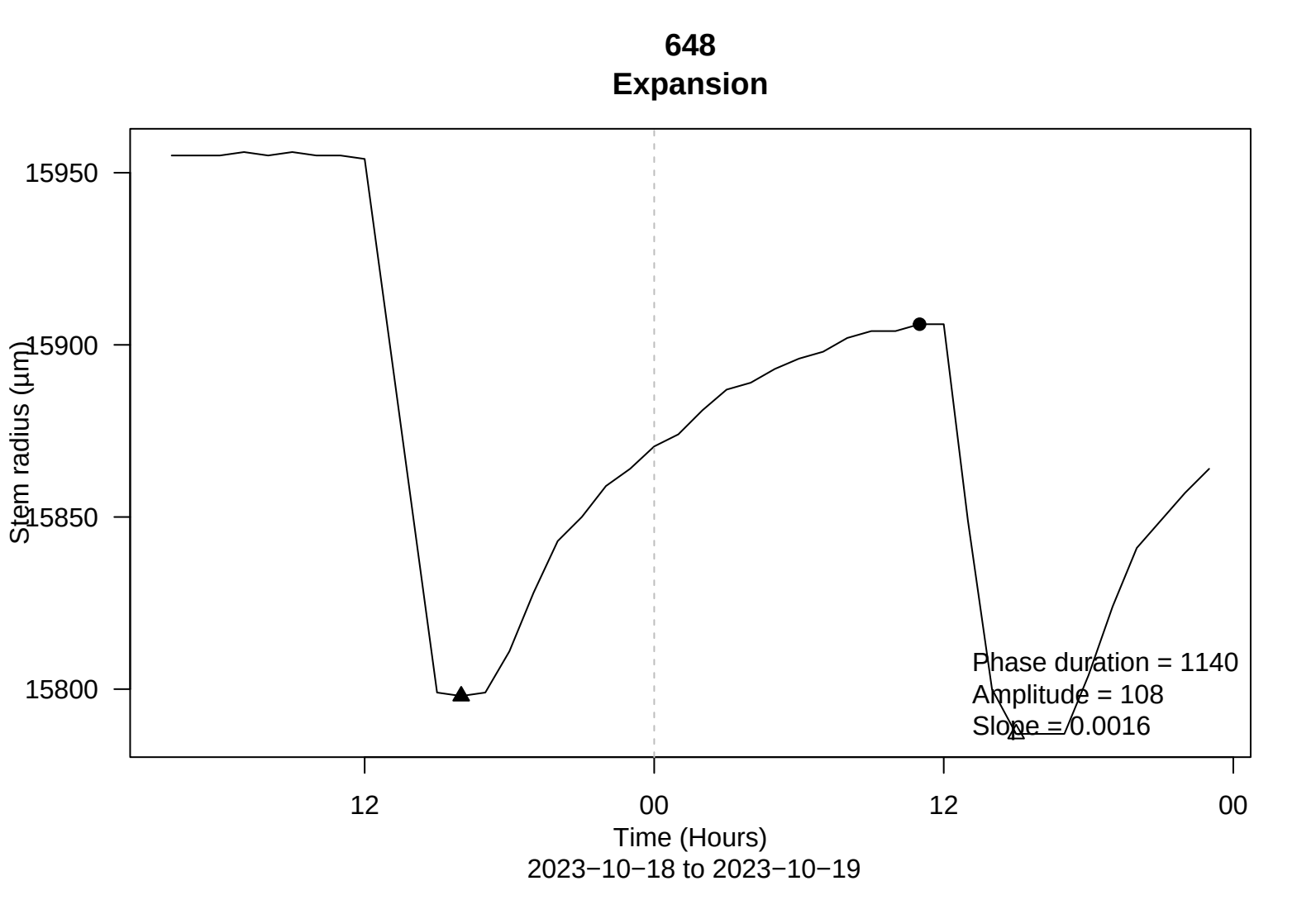

648
Expansion
15740
15720
15700
15680
15660
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 1e−04
12
00
12
Time (Hours)
2023−10−14 to 2023−10−15

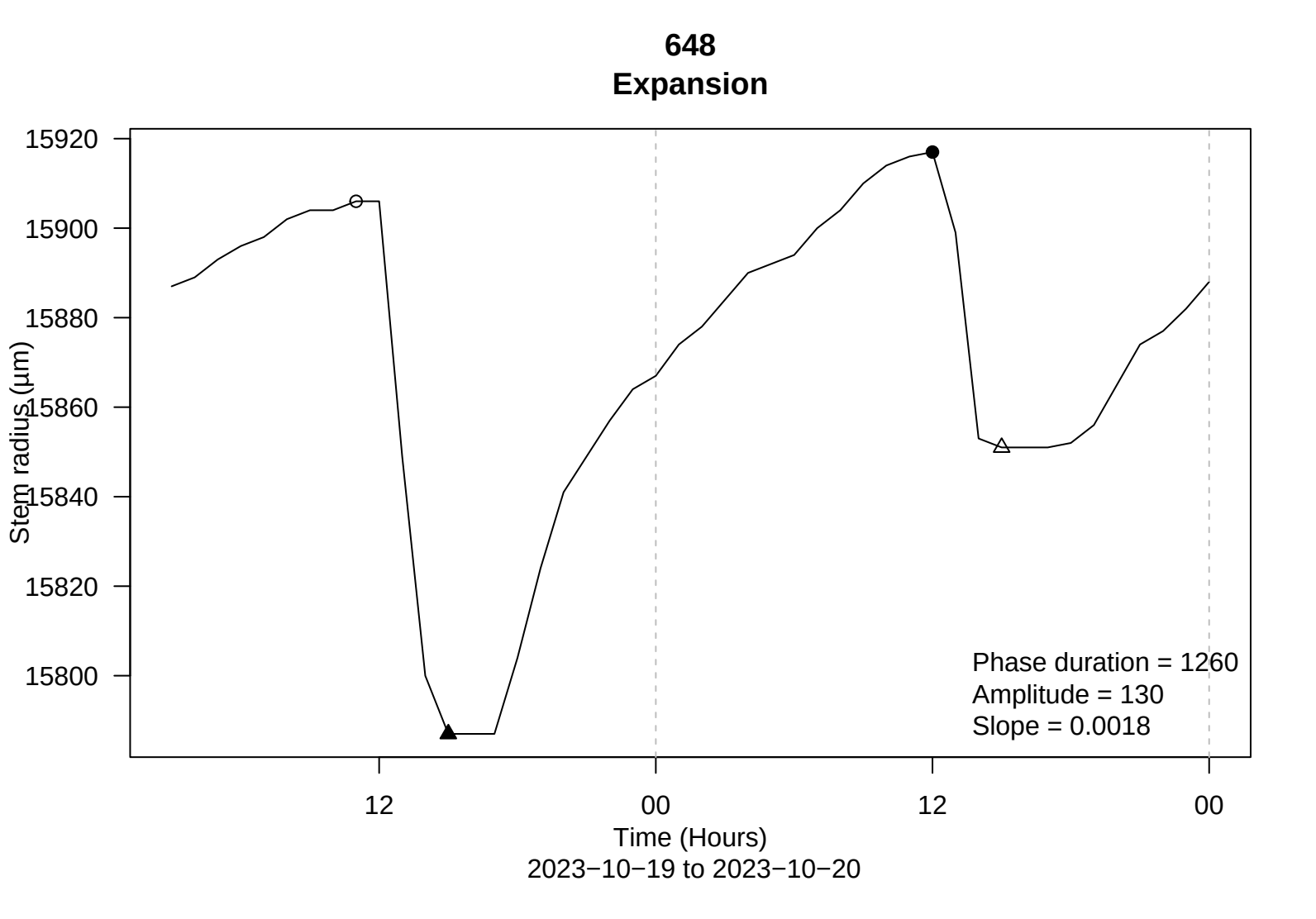

648
Shrinkage
15820
15800
15780
15760
15740
15720
15700
15680
Stem radius (µm)
Phase duration = 540
Amplitude = −41
Slope = −0.0017
00
12
00
Time (Hours)
2023−10−15 to 2023−10−15

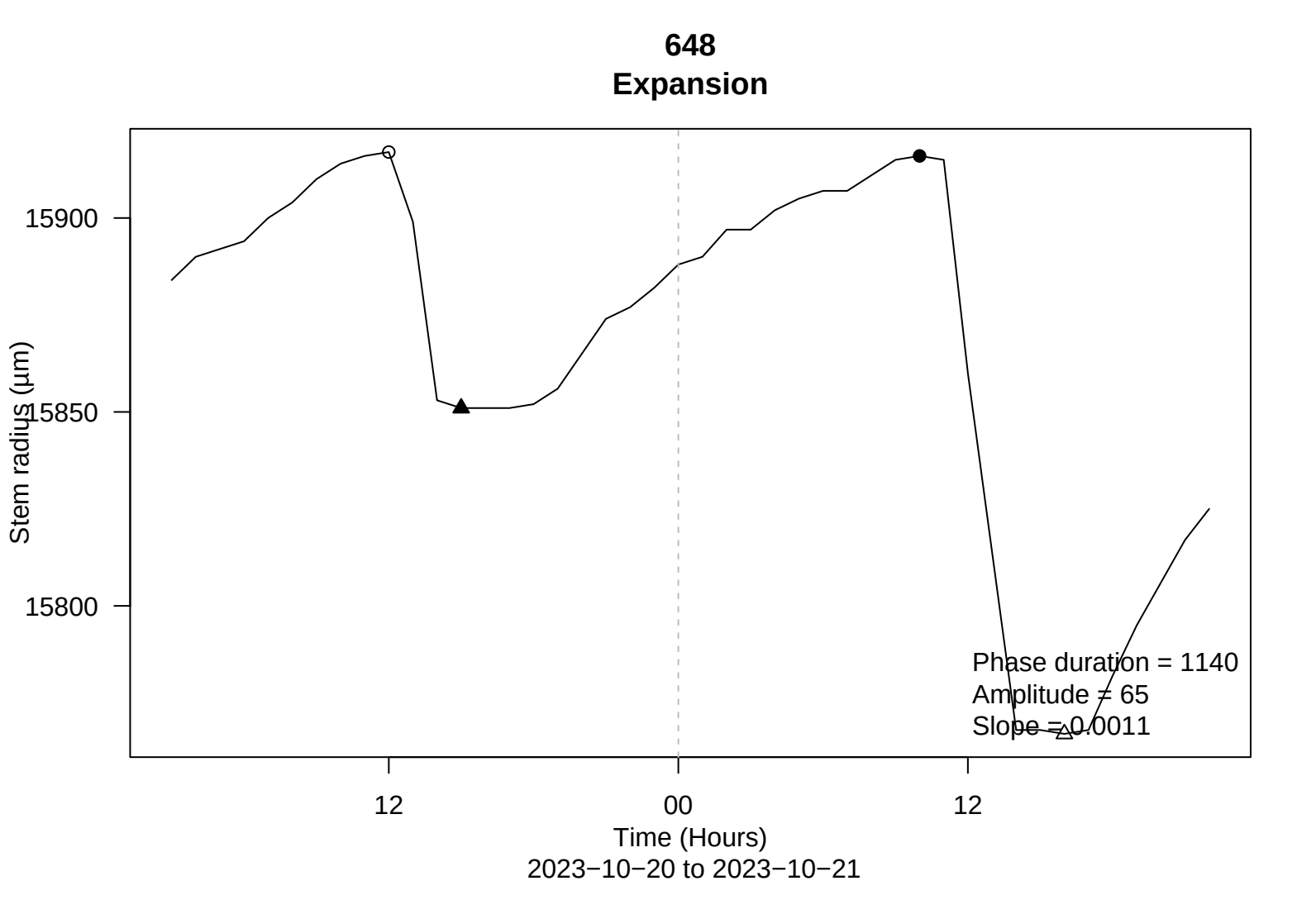

648
Expansion
15950
15900
15850
15800
15750
15700
Stem radius (µm)
Phase duration = 2700
Amplitude = 279
Slope = 0.0015
00
00
00
Time (Hours)
2023−10−15 to 2023−10−17

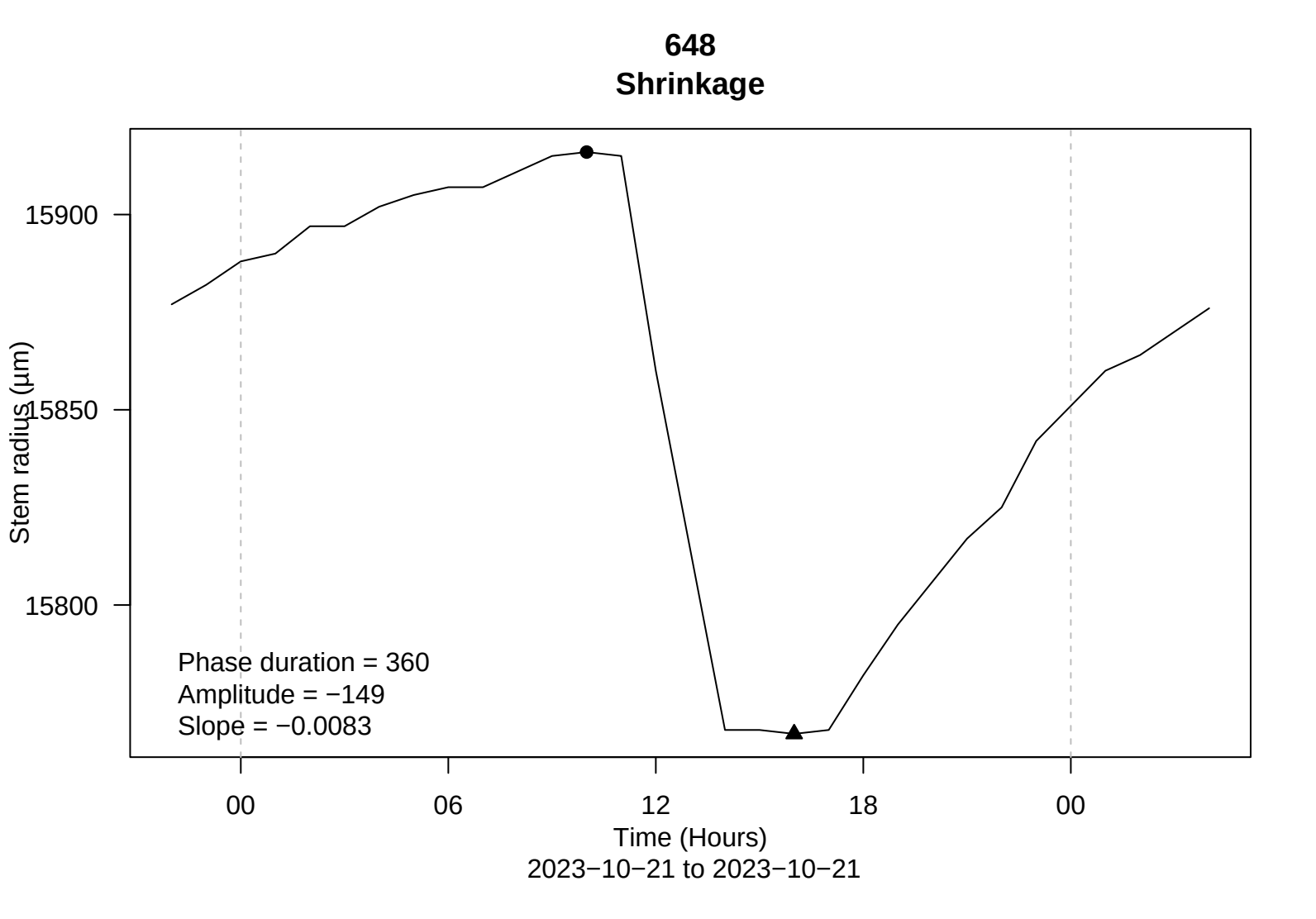

648
Shrinkage
15960
15955
15950
15945
15940
15935
Stem radius (µm)
Phase duration = 420
Amplitude = −5
Slope = −2e−04
00
12
00
Time (Hours)
2023−10−17 to 2023−10−17

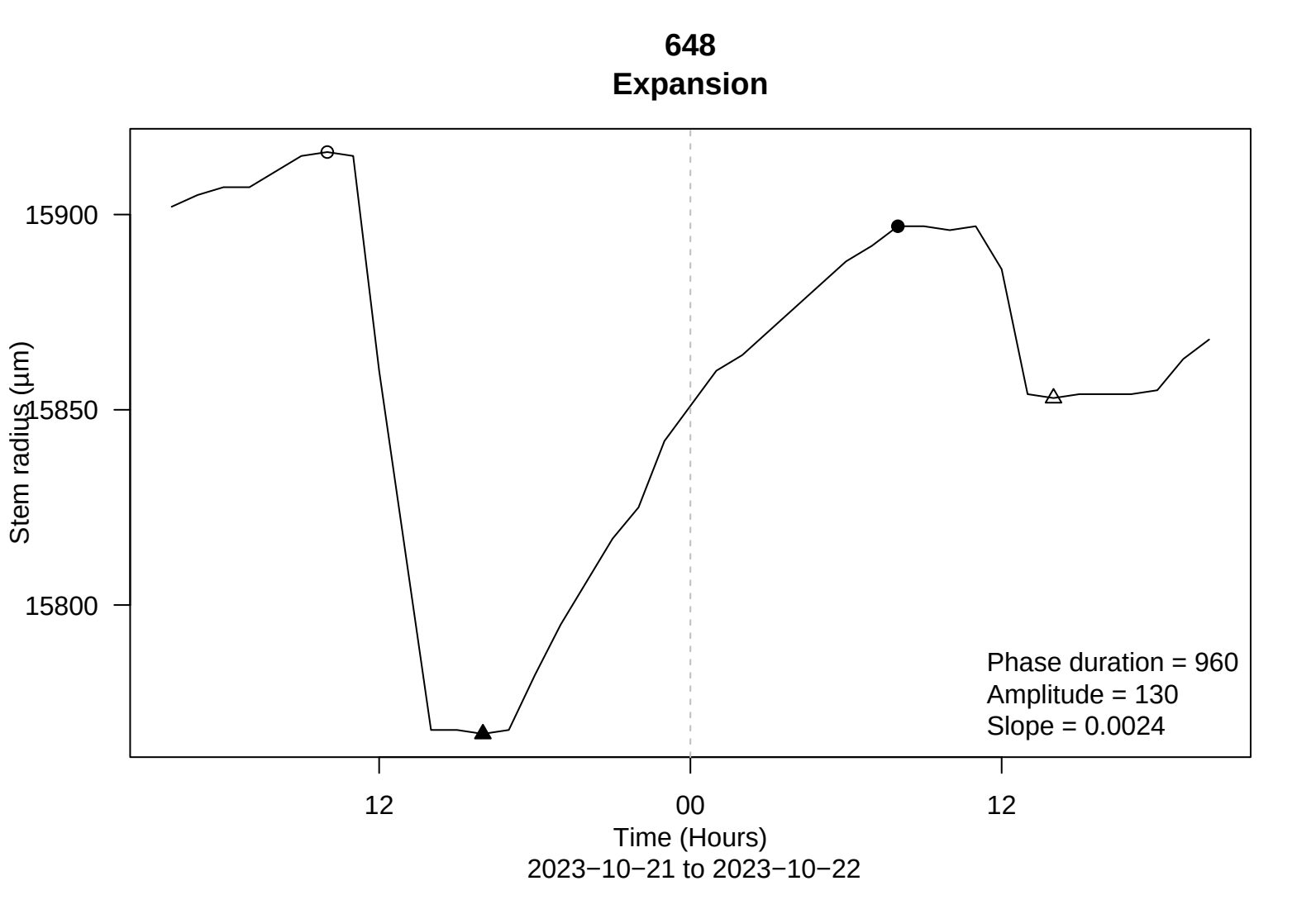

648
Shrinkage
15950
15900
15850
15800
Stem radius (µm)
Phase duration = 960
Amplitude = −158.5
Slope = −0.0022
12
00
12
00
Time (Hours)
2023−10−18 to 2023−10−18

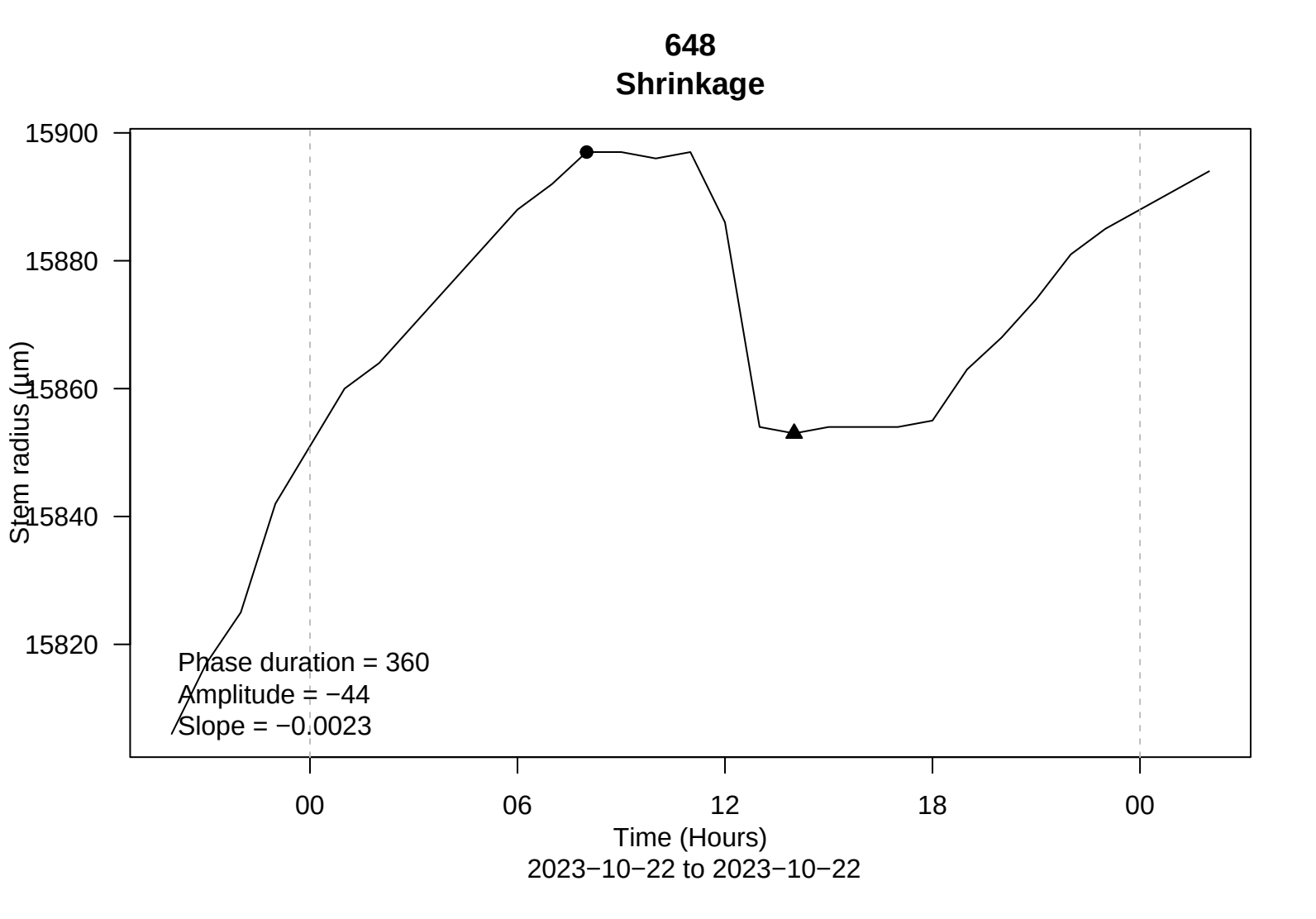

648
Expansion
15950
15900
15850
15800
Stem radius (µm)
Phase duration = 1140
Amplitude = 108
Slope = 0.0016
12
00
12
00
Time (Hours)
2023−10−18 to 2023−10−19

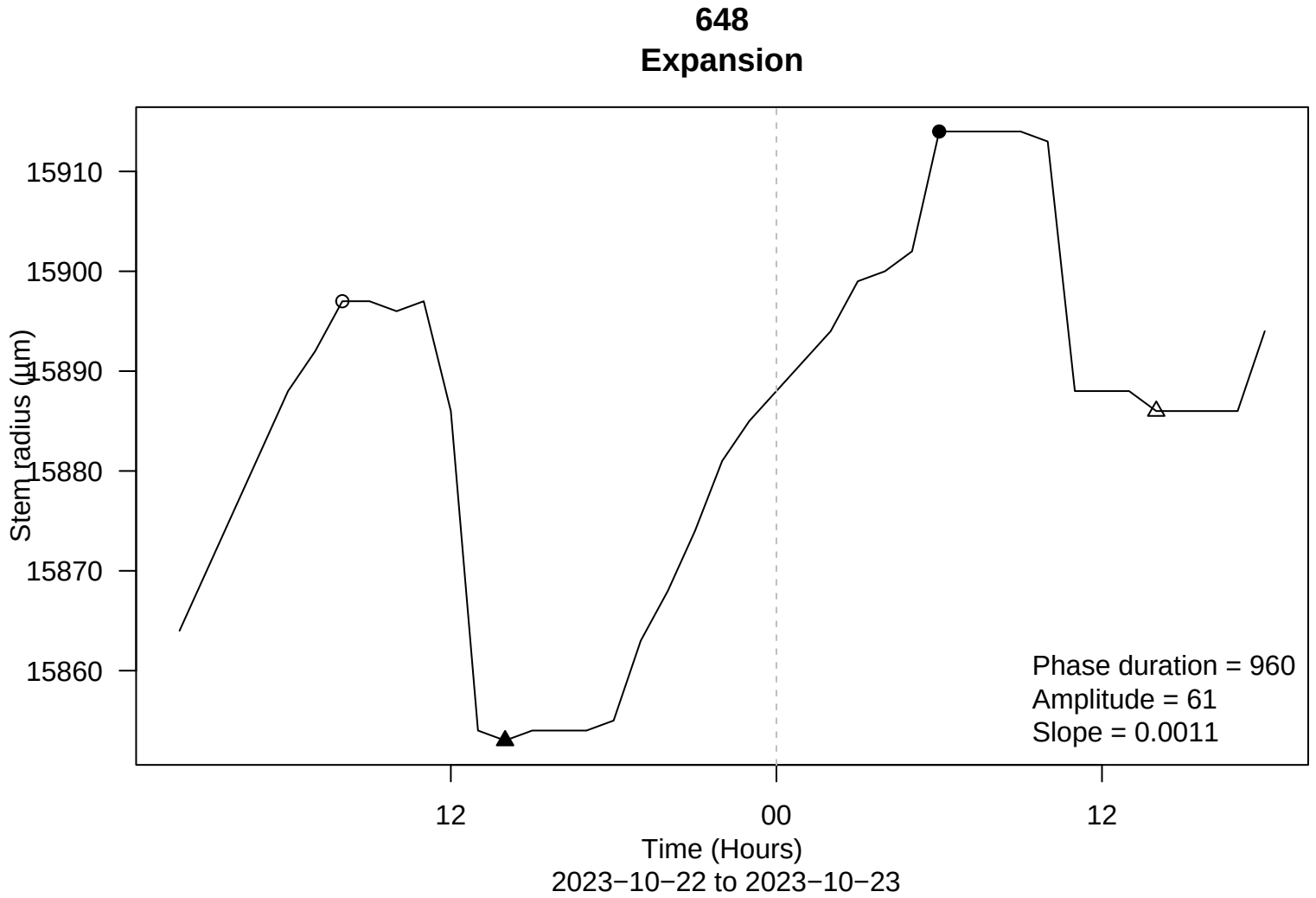

648
Expansion
15920
15900
15880
15860
15840
15820
15800
Stem radius (µm)
Phase duration = 1260
Amplitude = 130
Slope = 0.0018
12
00
12
00
Time (Hours)
2023−10−19 to 2023−10−20

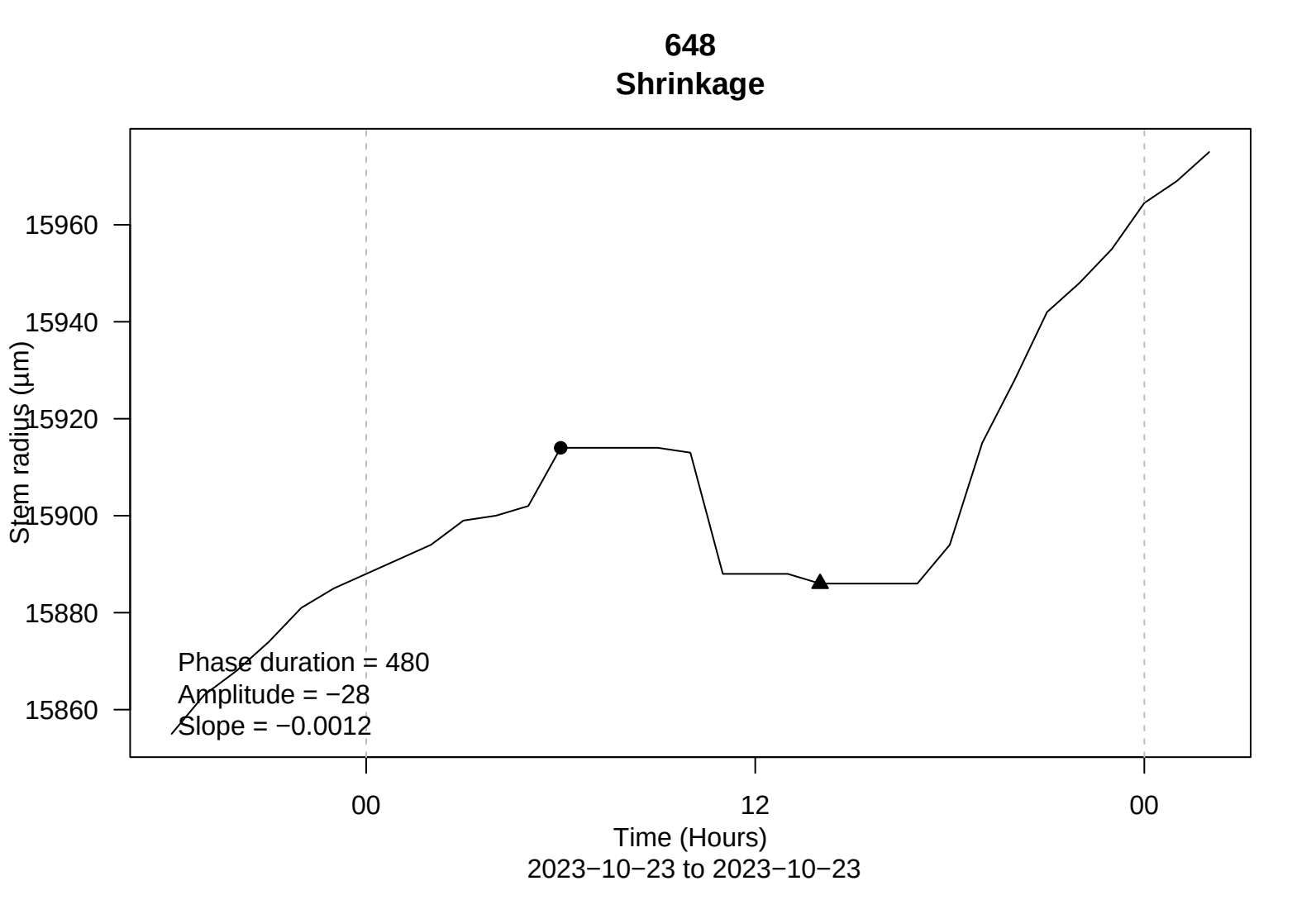

648
Expansion
15900
15850
15800
Stem radius (µm)
Phase duration = 1140
Amplitude = 65
Slope = 0.0011
12
00
12
Time (Hours)
2023−10−20 to 2023−10−21

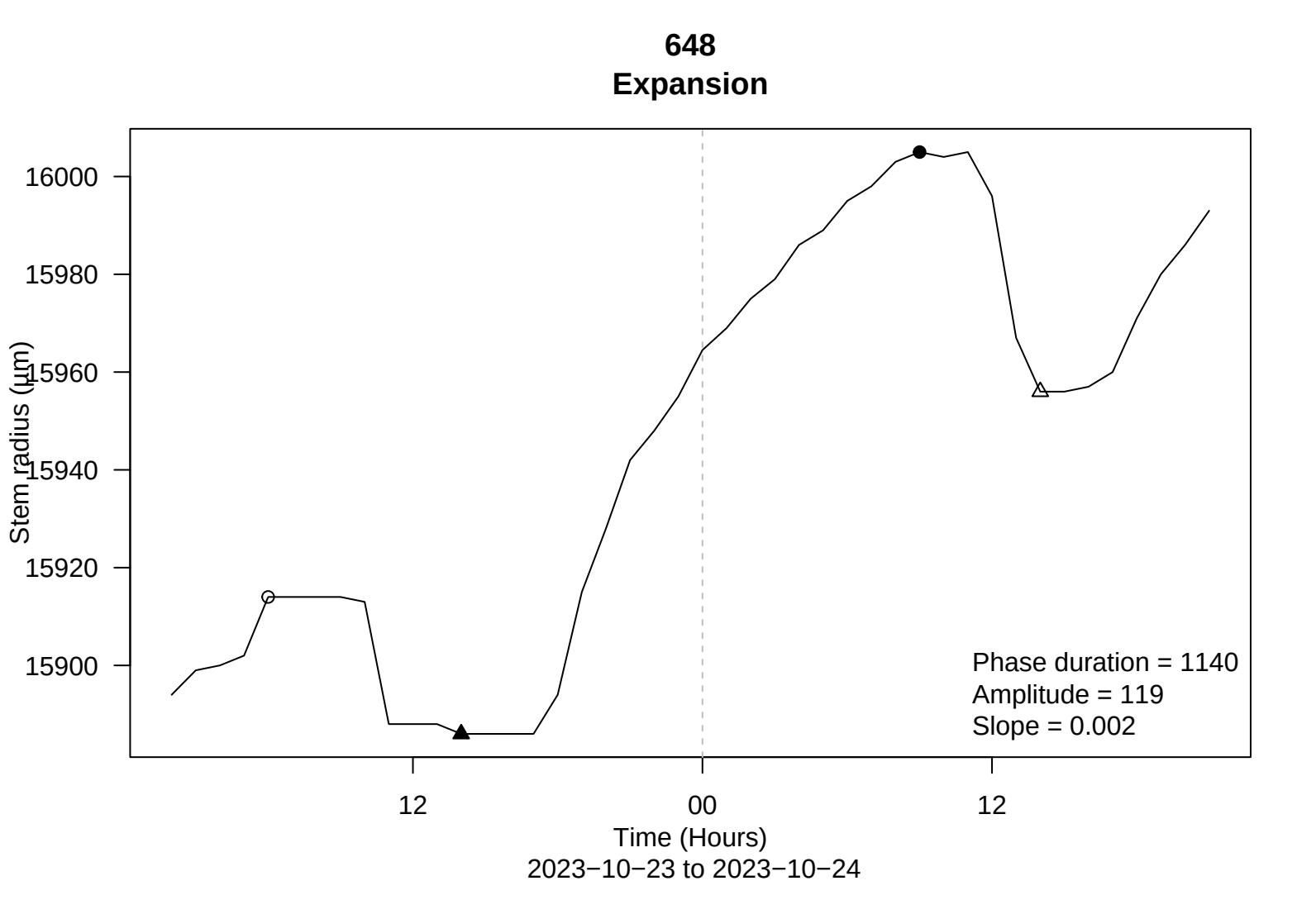

648
Shrinkage
15900
15850
15800
Stem radius (µm)
Phase duration = 360
Amplitude = −149
Slope = −0.0083
00
06
12
18
00
Time (Hours)
2023−10−21 to 2023−10−21

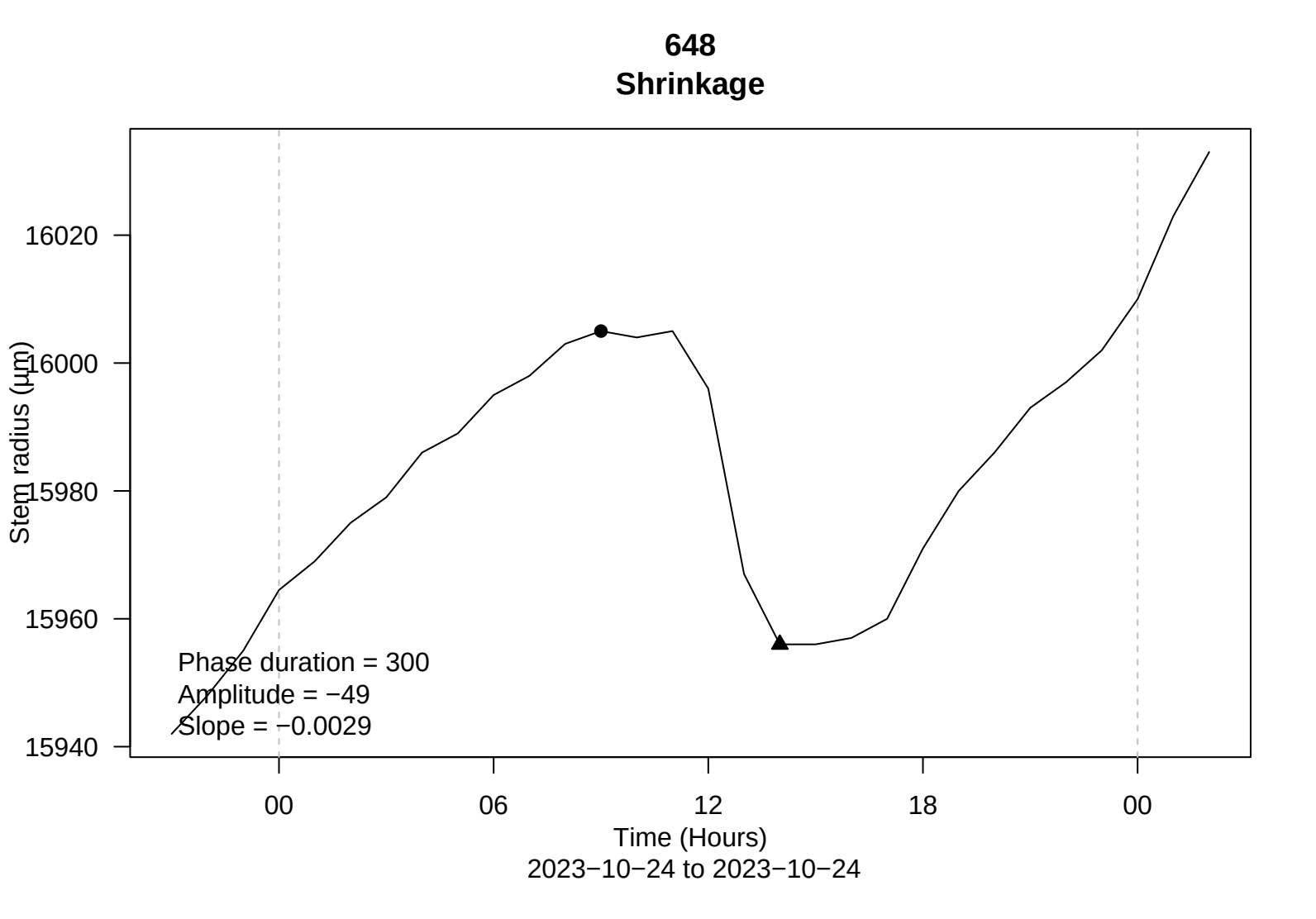

648
Expansion
15900
15850
15800
Stem radius (µm)
Phase duration = 960
Amplitude = 130
Slope = 0.0024
12
00
12
Time (Hours)
2023−10−21 to 2023−10−22

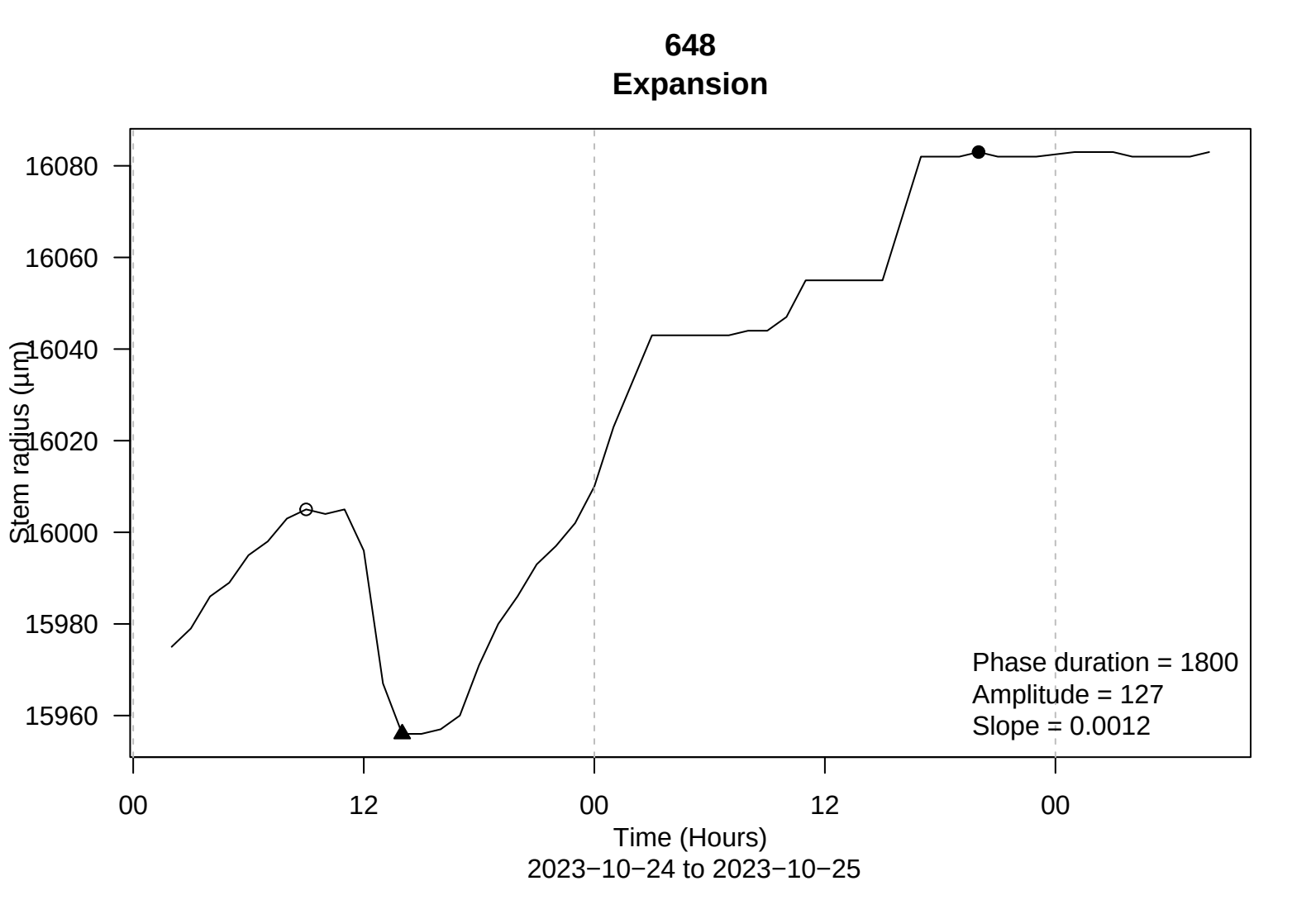

648
Shrinkage
15900
15880
15860
15840
15820
Stem radius (µm)
Phase duration = 360
Amplitude = −44
Slope = −0.0023
00
06
12
18
00
Time (Hours)
2023−10−22 to 2023−10−22

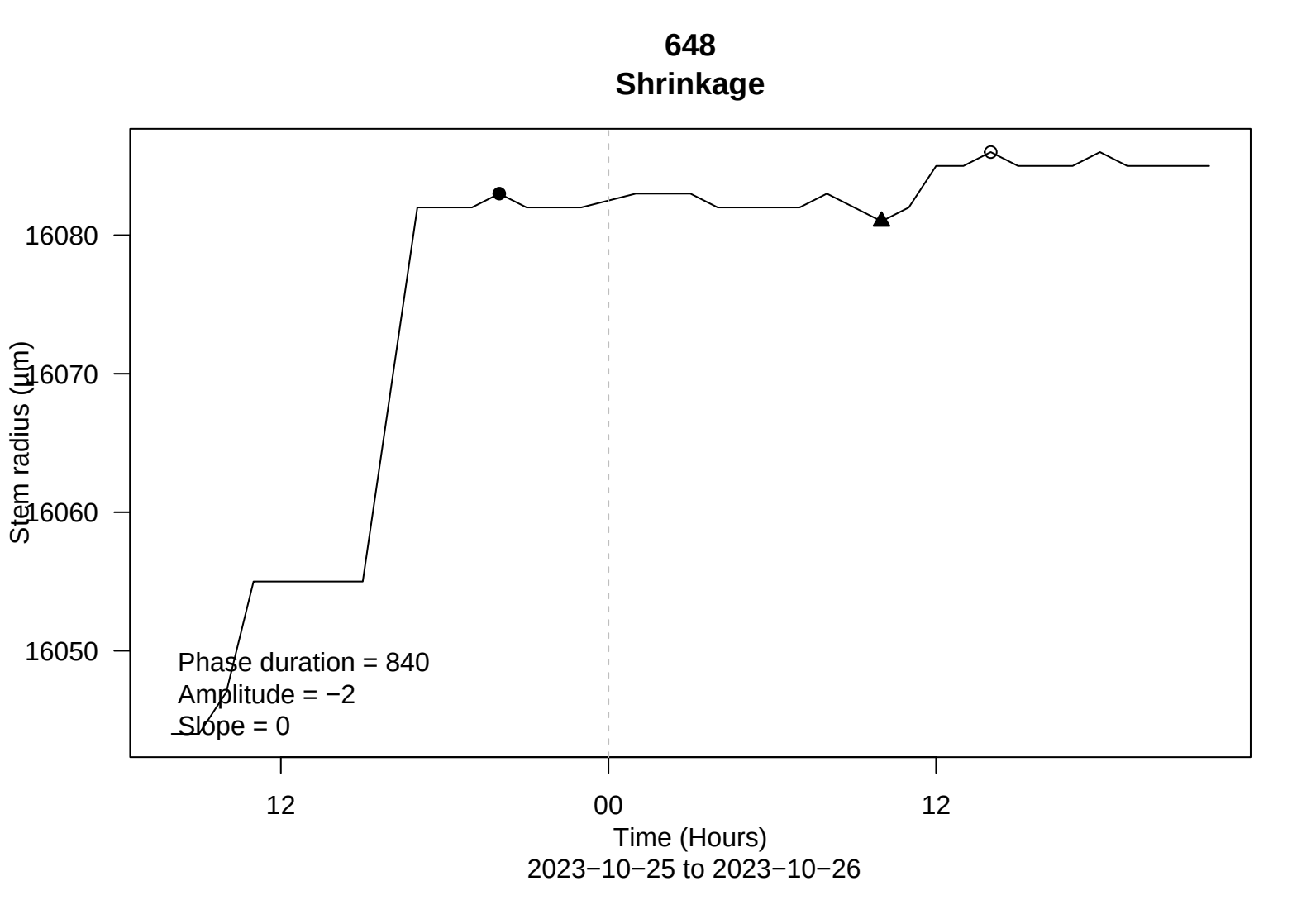

648
Expansion
15910
15900
15890
15880
15870
15860
Stem radius (µm)
Phase duration = 960
Amplitude = 61
Slope = 0.0011
12
00
12
Time (Hours)
2023−10−22 to 2023−10−23

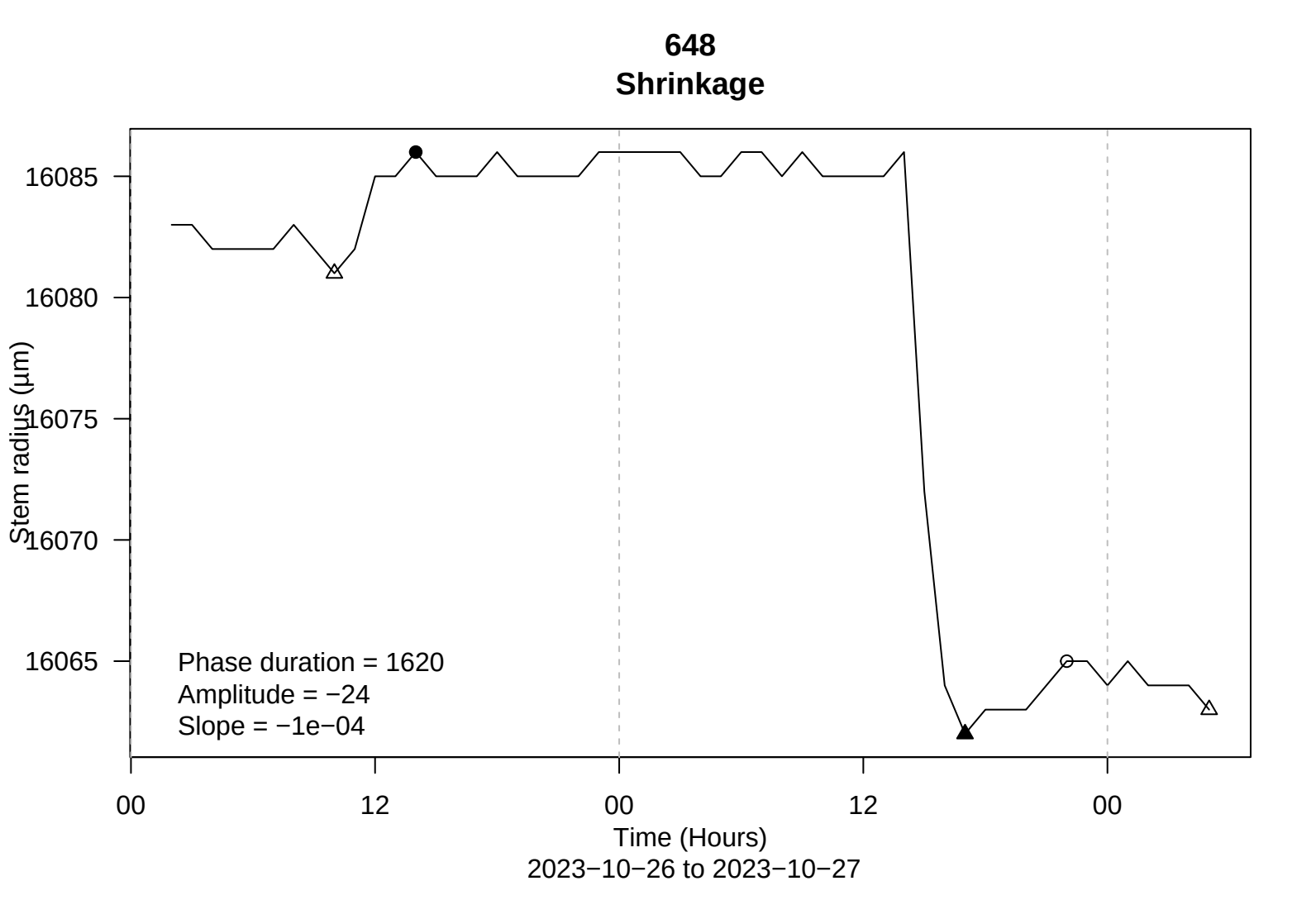

648
Shrinkage
15960
15940
15920
15900
15880
15860
Stem radius (µm)
Phase duration = 480
Amplitude = −28
Slope = −0.0012
00
12
00
Time (Hours)
2023−10−23 to 2023−10−23

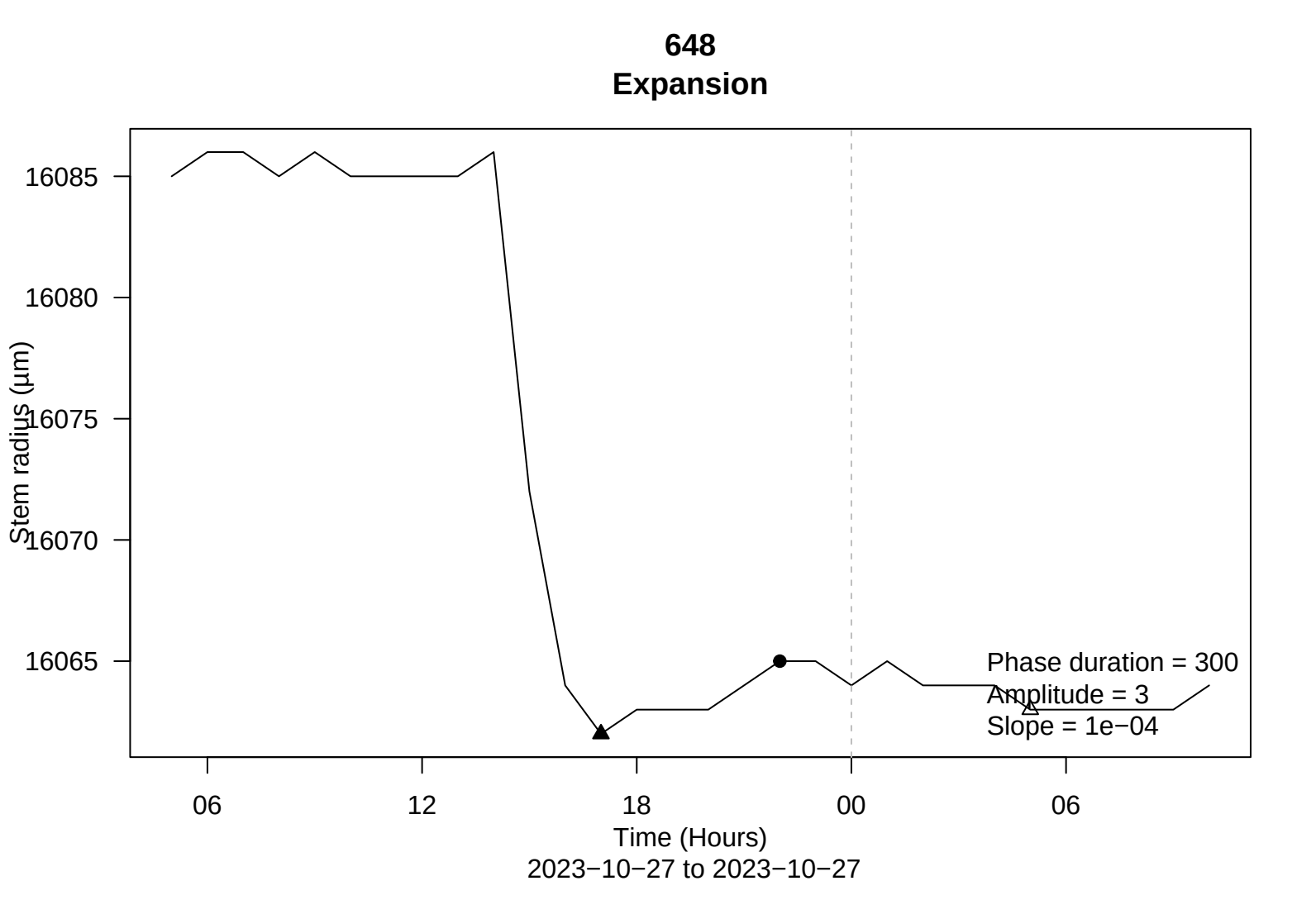

648
Expansion
16000
15980
15960
15940
15920
15900
Stem radius (µm)
Phase duration = 1140
Amplitude = 119
Slope = 0.002
12
00
12
Time (Hours)
2023−10−23 to 2023−10−24

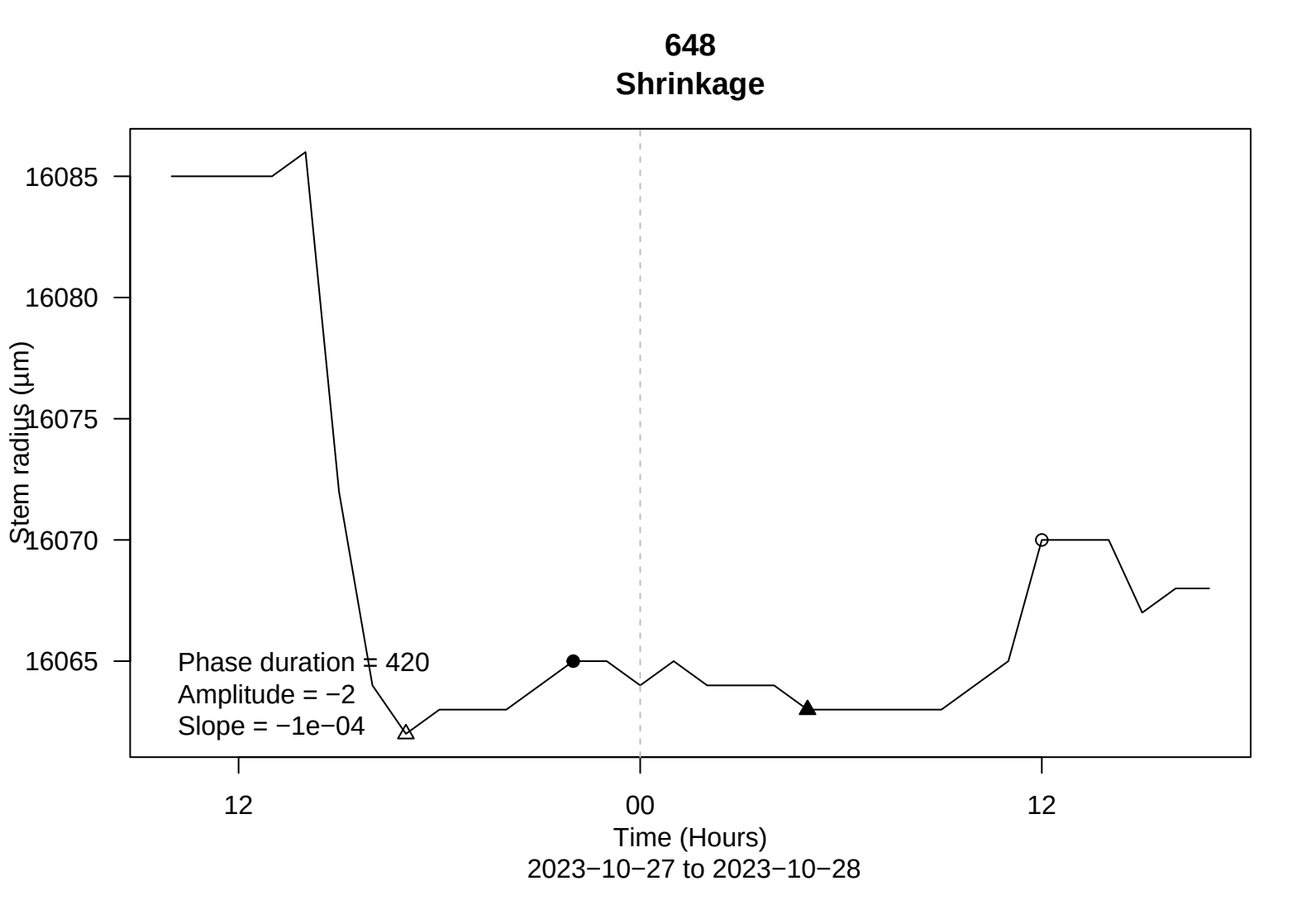

648
Shrinkage
16020
16000
15980
15960
15940
Stem radius (µm)
Phase duration = 300
Amplitude = −49
Slope = −0.0029
00
06
12
18
00
Time (Hours)
2023−10−24 to 2023−10−24

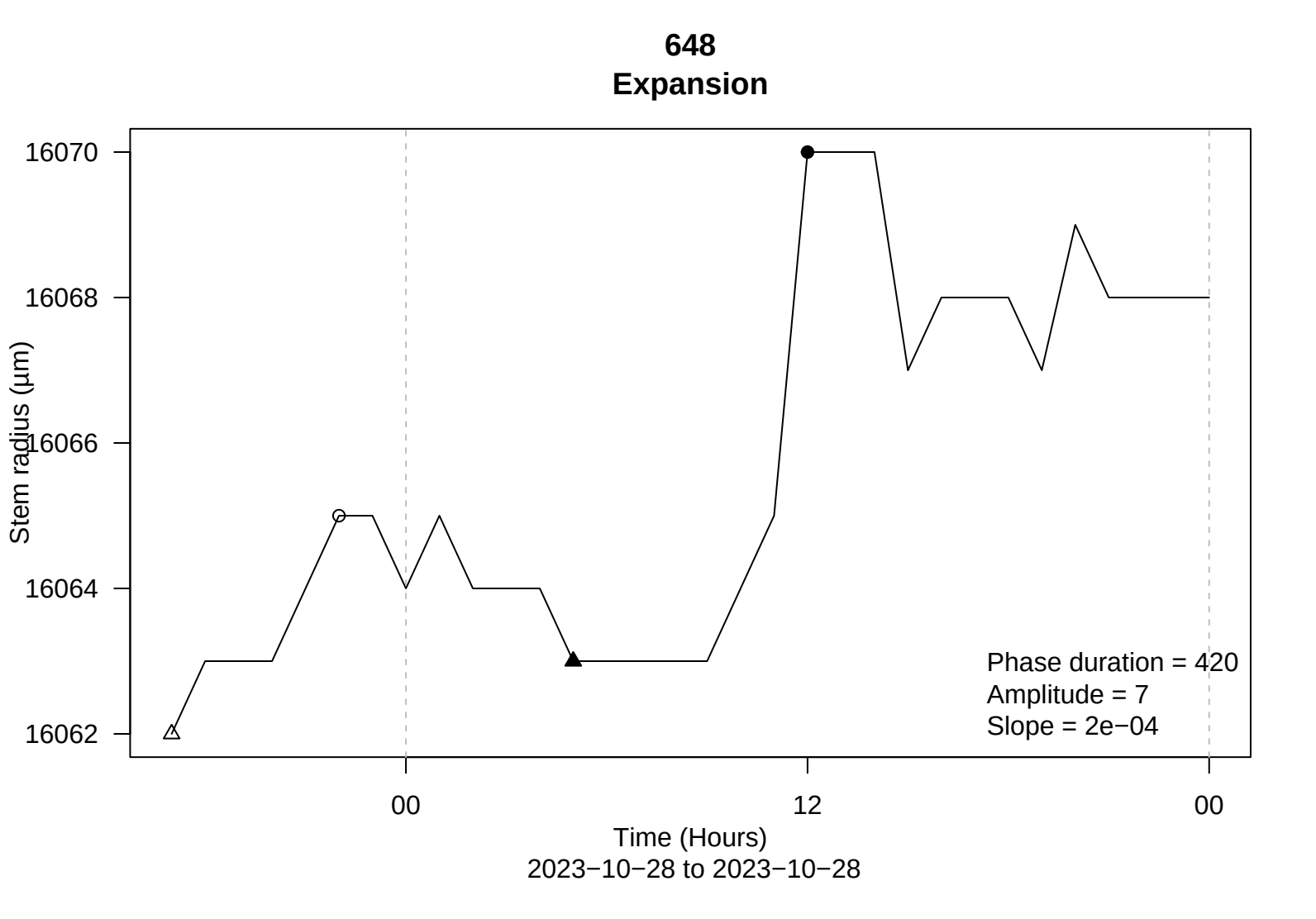

648
Expansion
16080
16060
16040
16020
16000
15980
15960
Stem radius (µm)
Phase duration = 1800
Amplitude = 127
Slope = 0.0012
00
12
00
12
00
Time (Hours)
2023−10−24 to 2023−10−25

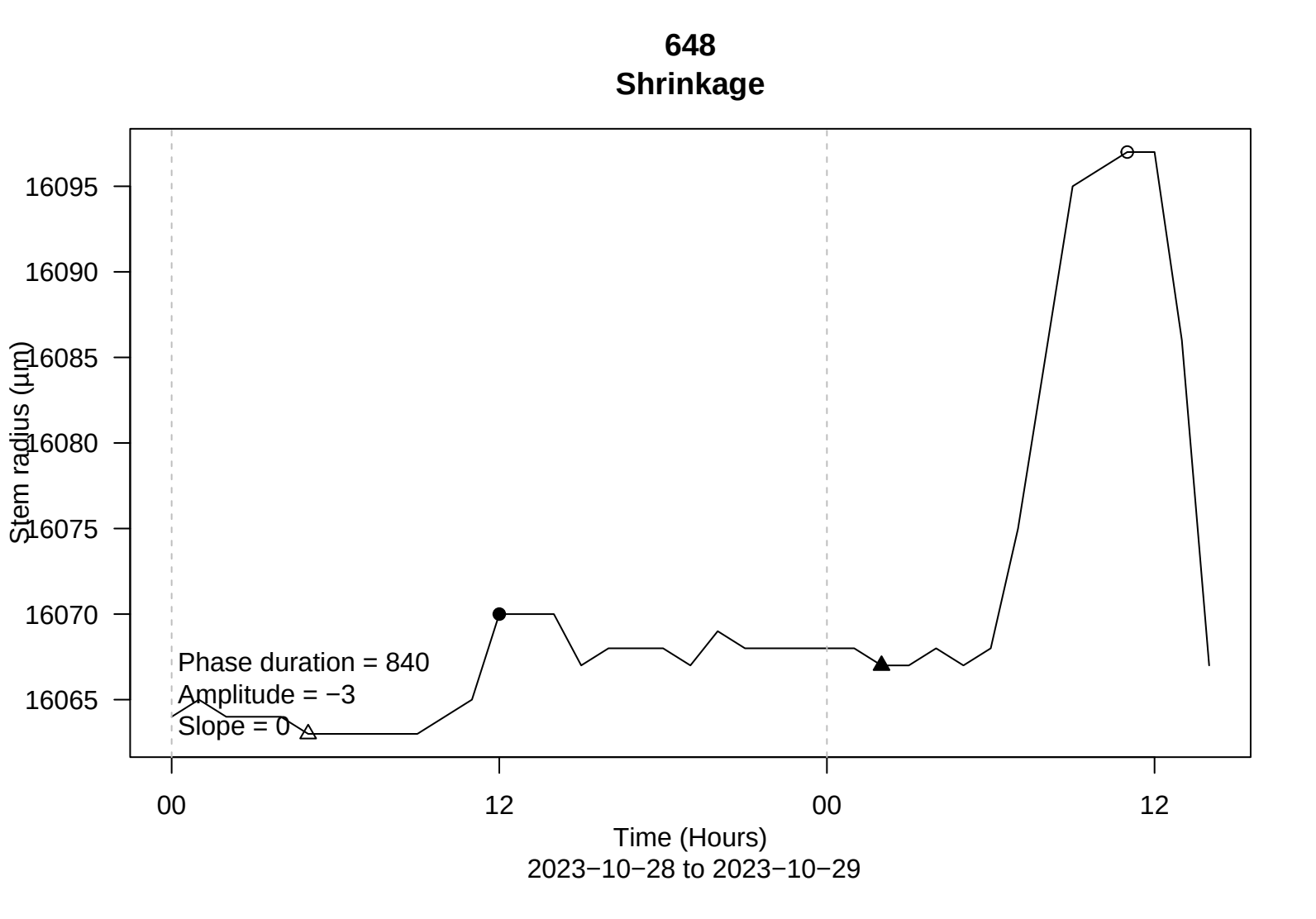

648
Shrinkage
16080
16070
16060
16050
Stem radius (µm)
Phase duration = 840
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−10−25 to 2023−10−26

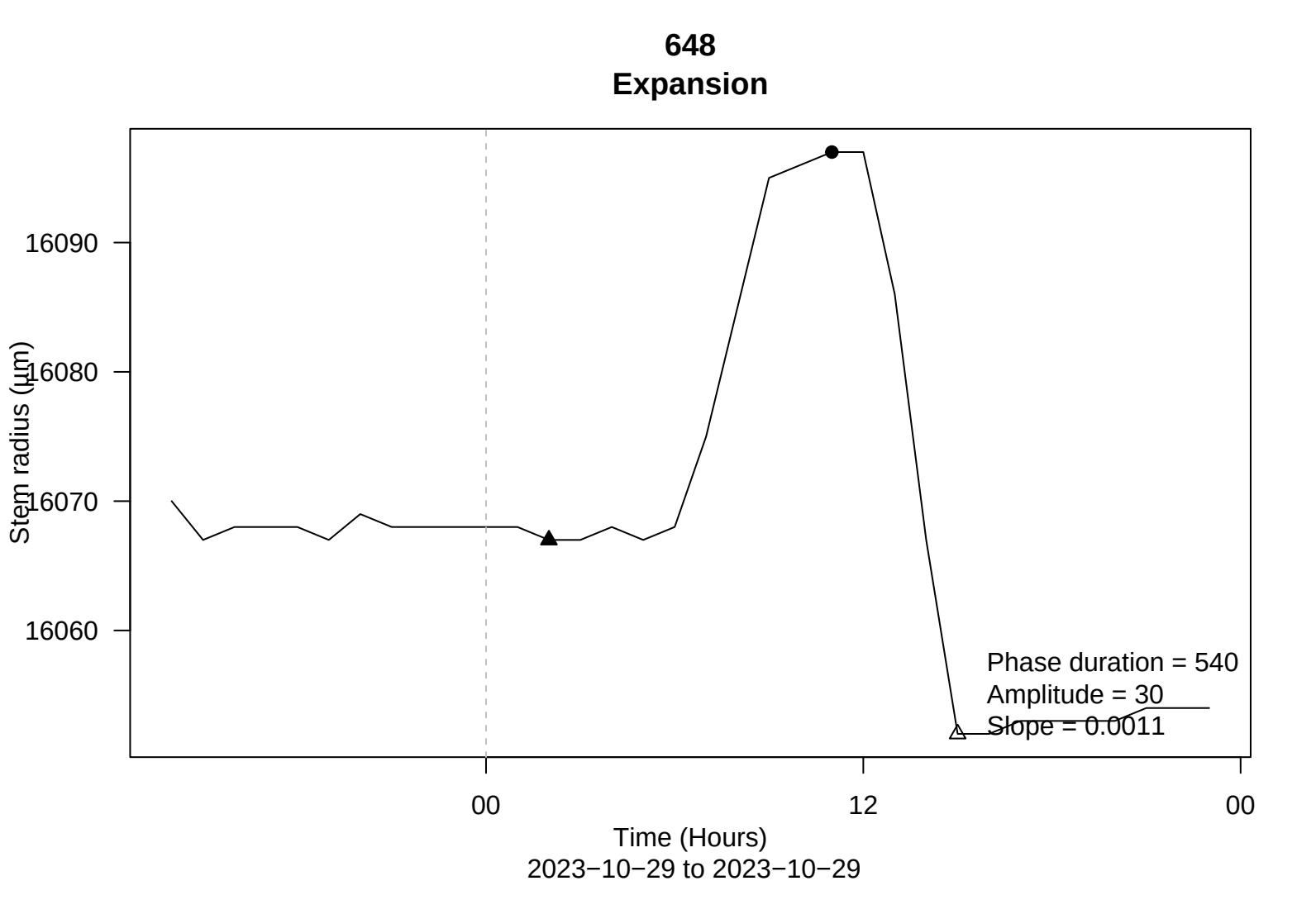

648
Shrinkage
16085
16080
16075
16070
16065
Stem radius (µm)
Phase duration = 1620
Amplitude = −24
Slope = −1e−04
00
12
00
12
00
Time (Hours)
2023−10−26 to 2023−10−27

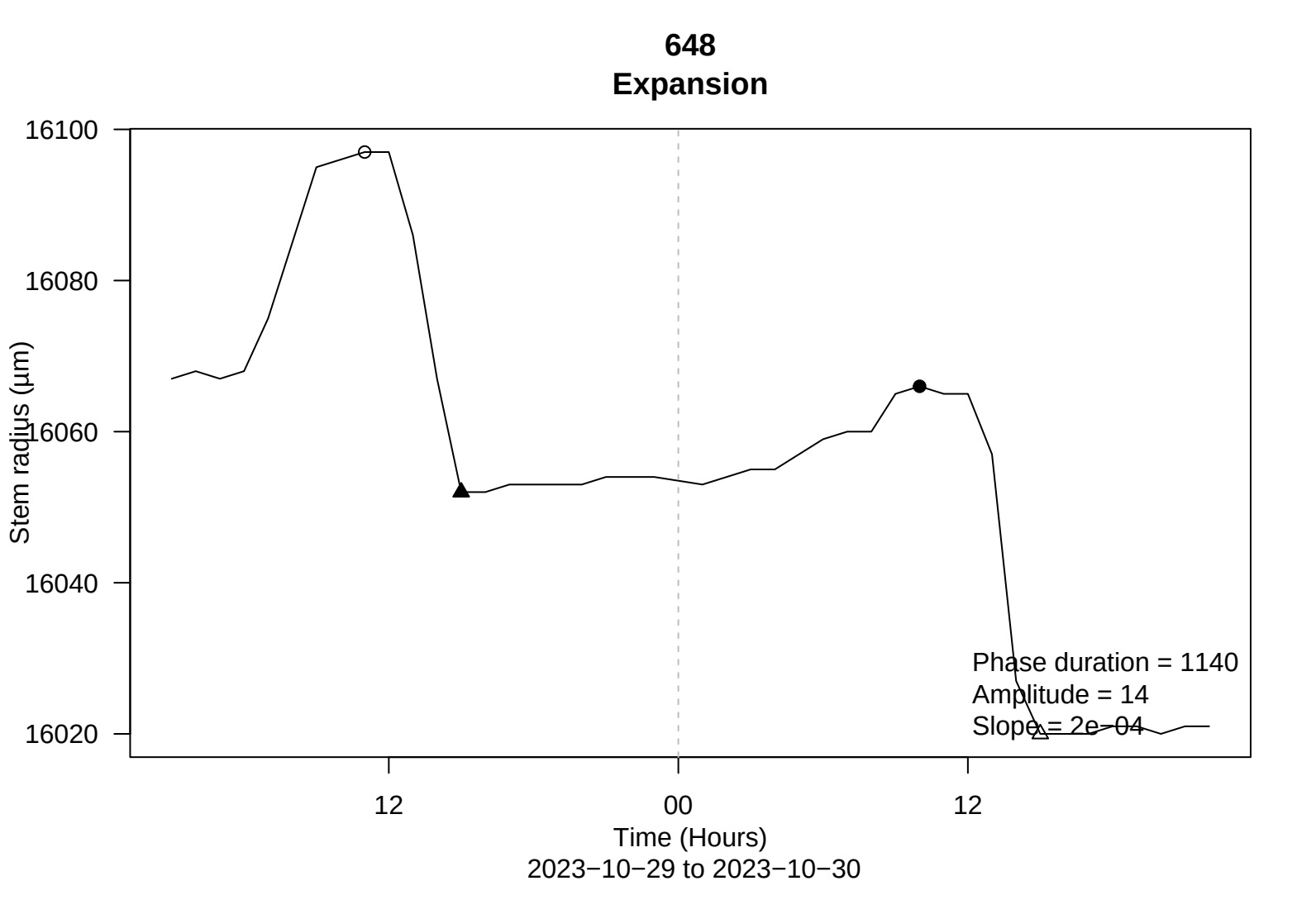

648
Expansion
16085
16080
16075
16070
16065
Stem radius (µm)
Phase duration = 300
Amplitude = 3
Slope = 1e−04
06
12
18
00
06
Time (Hours)
2023−10−27 to 2023−10−27

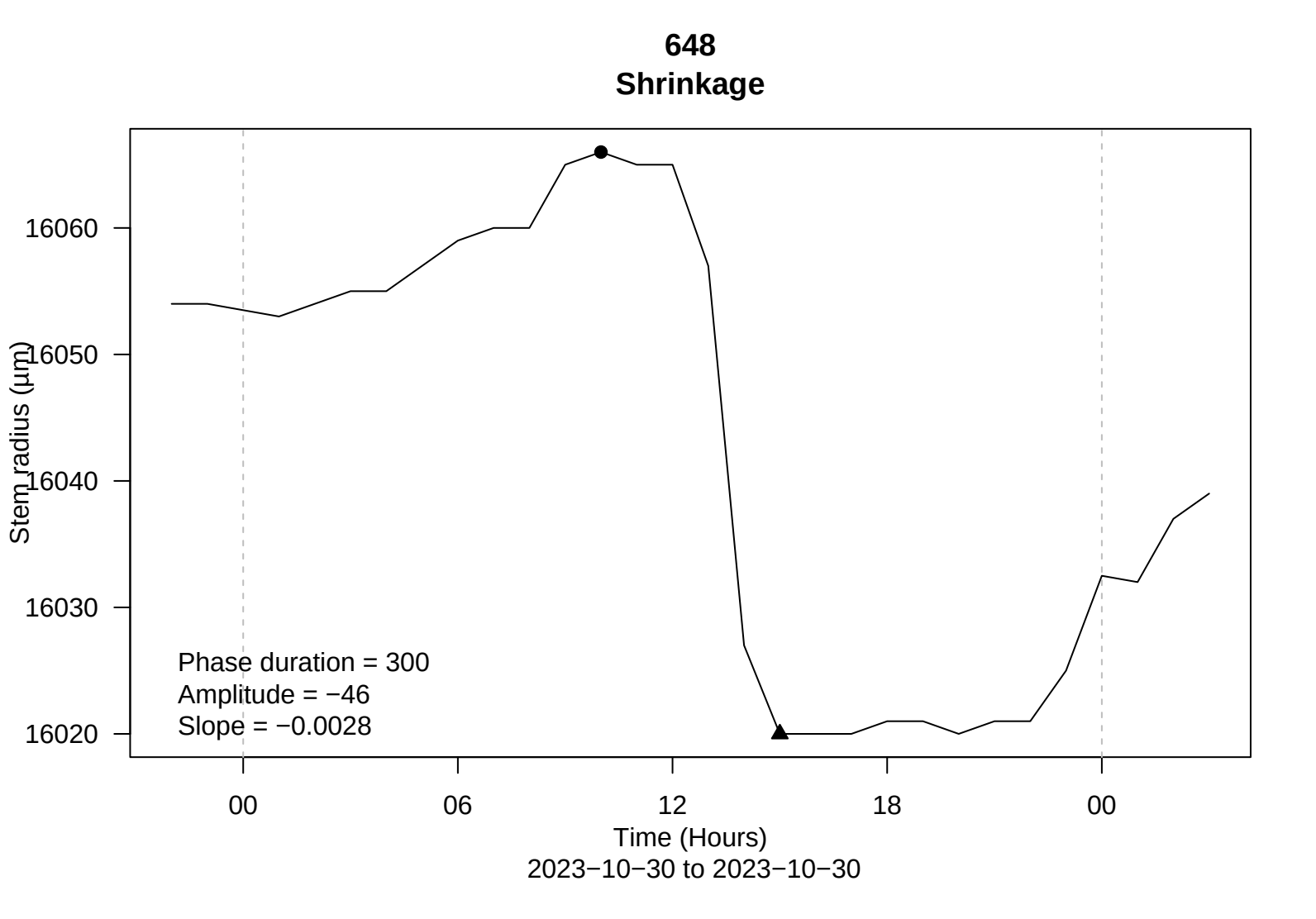

648
Shrinkage
16085
16080
16075
16070
16065
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2023−10−27 to 2023−10−28

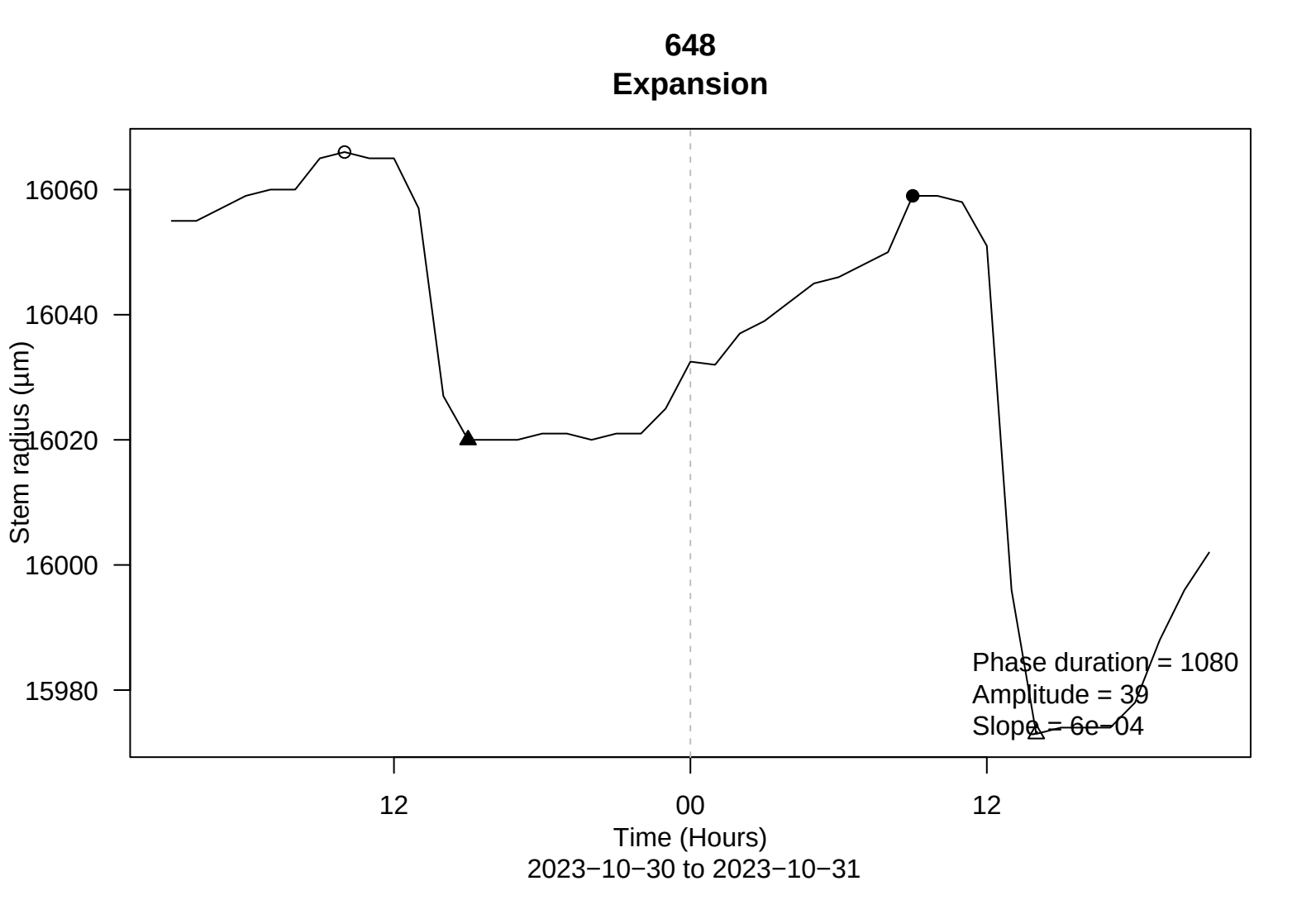

648
Expansion
16070
16068
16066
16064
16062
Stem radius (µm)
Phase duration = 420
Amplitude = 7
Slope = 2e−04
00
12
00
Time (Hours)
2023−10−28 to 2023−10−28

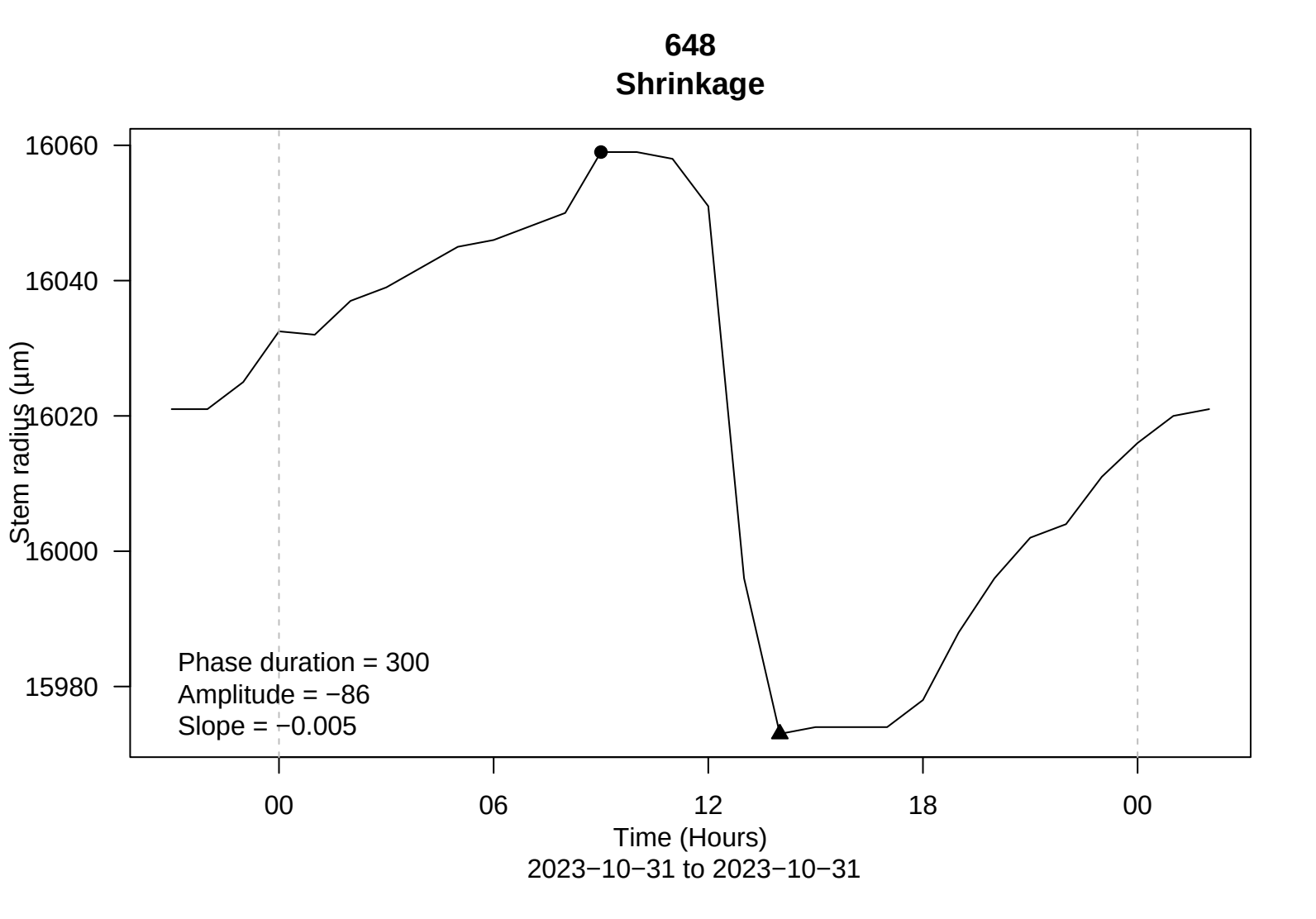

648
Shrinkage
16095
16090
16085
16080
16075
16070
16065
Stem radius (µm)
Phase duration = 840
Amplitude = −3
Slope = 0
00
12
00
12
Time (Hours)
2023−10−28 to 2023−10−29

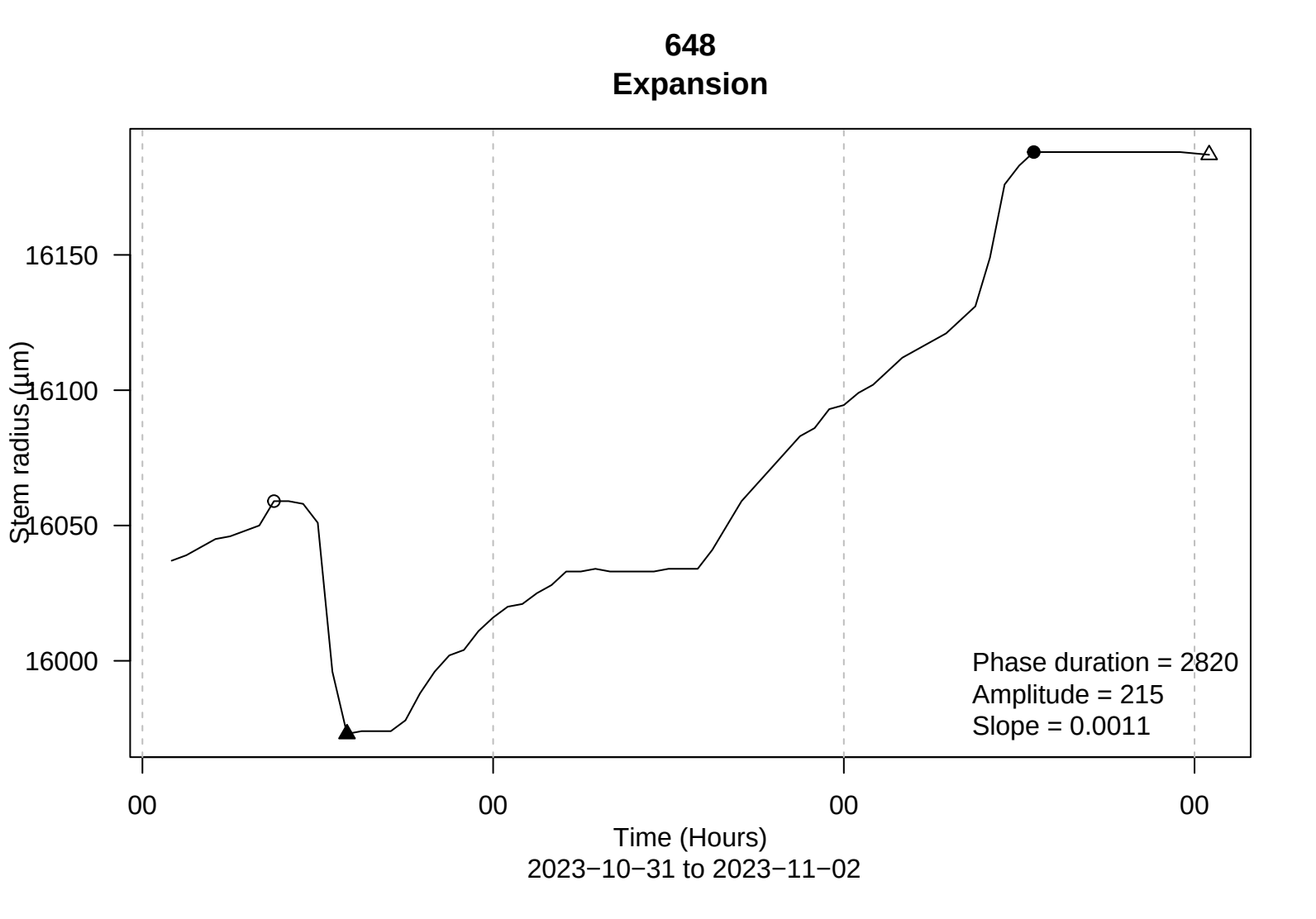

648
Expansion
16090
16080
16070
16060
Stem radius (µm)
Phase duration = 540
Amplitude = 30
Slope = 0.0011
00
12
00
Time (Hours)
2023−10−29 to 2023−10−29

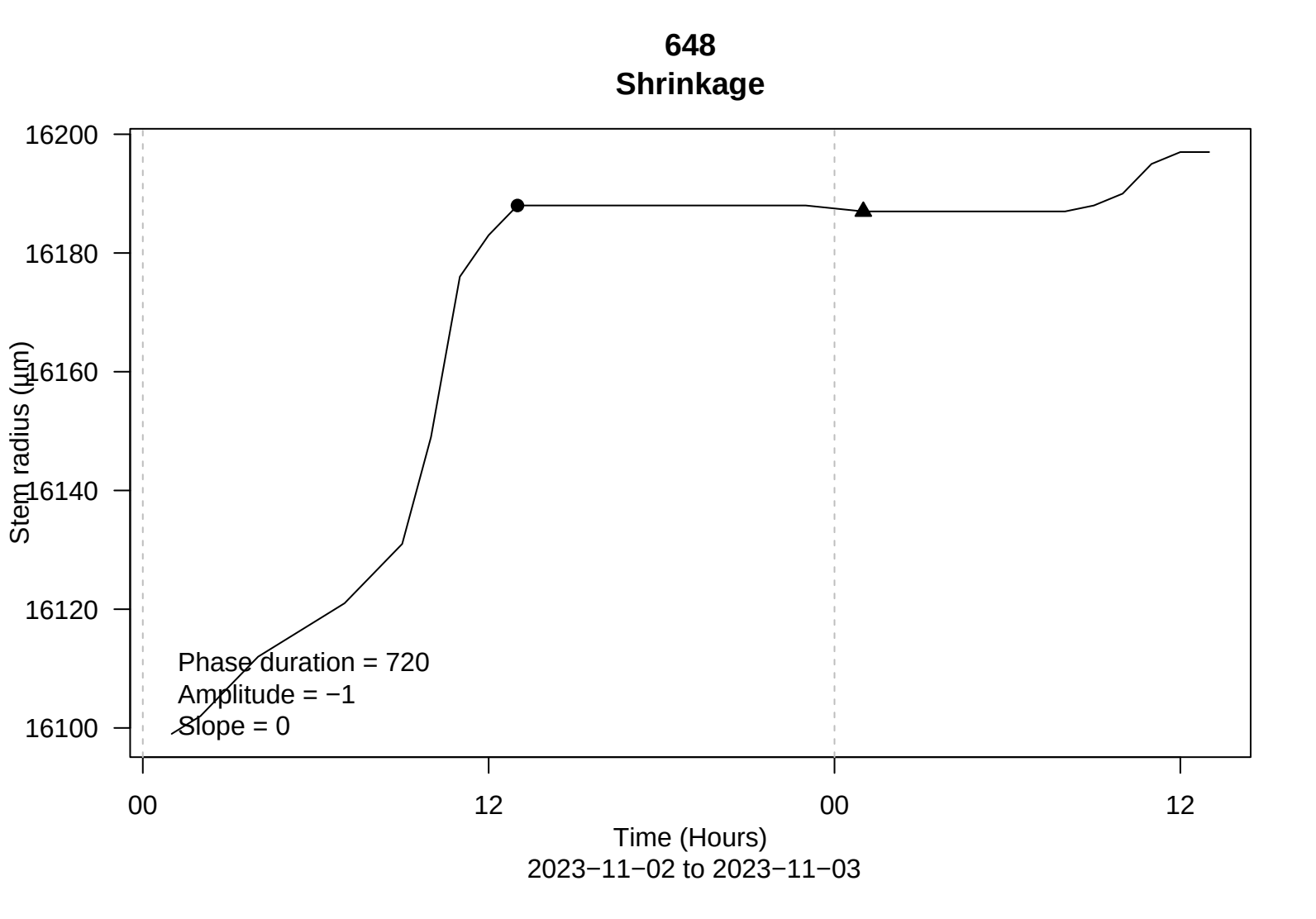

648
Expansion
16100
16080
16060
16040
16020
Stem radius (µm)
12
00
12
Time (Hours)
2023−10−29 to 2023−10−30
Phase duration = 1140
Amplitude = 14
Slope = 2e−04

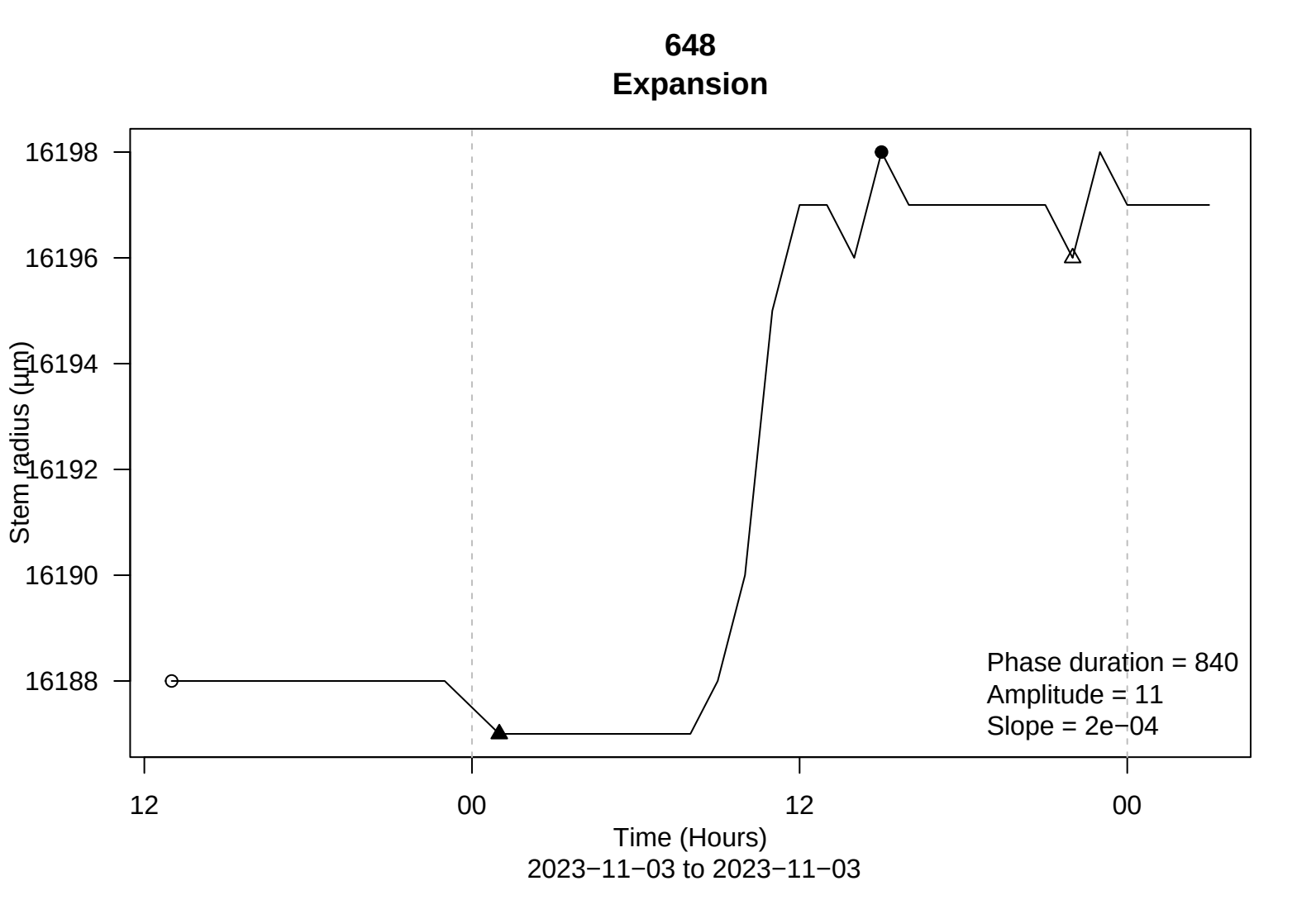

648
Shrinkage
16060
16050
16040
16030
16020
Stem radius (µm)
Phase duration = 300
Amplitude = −46
Slope = −0.0028
00
06
12
18
00
Time (Hours)
2023−10−30 to 2023−10−30

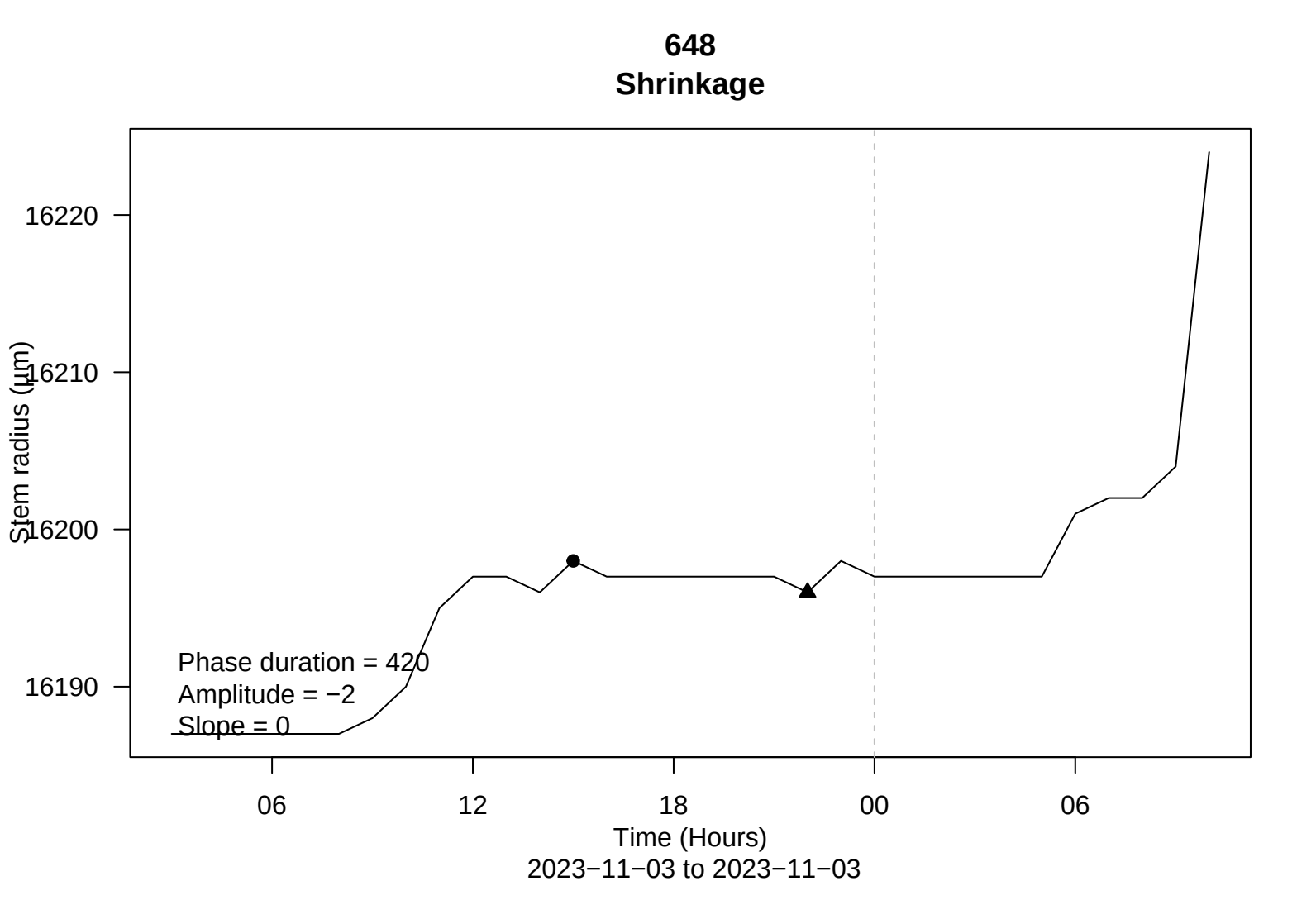

648
Expansion
16060
16040
16020
16000
15980
Stem radius (µm)
Phase duration = 1080
Amplitude = 39
Slope = 6e−04
12
00
12
Time (Hours)
2023−10−30 to 2023−10−31

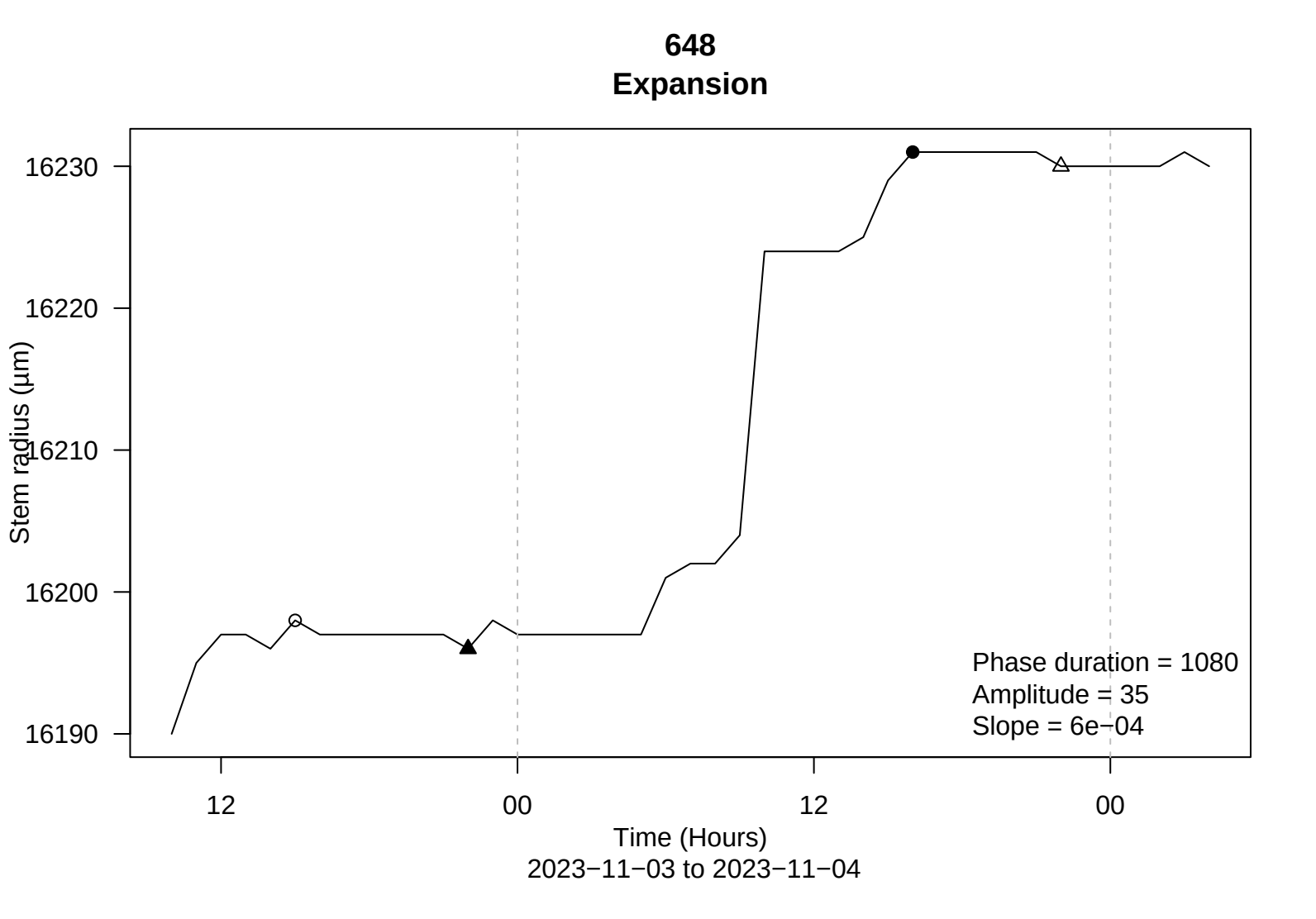

648
Shrinkage
16060
16040
16020
16000
15980
Stem radius (µm)
Phase duration = 300
Amplitude = −86
Slope = −0.005
00
06
12
18
00
Time (Hours)
2023−10−31 to 2023−10−31

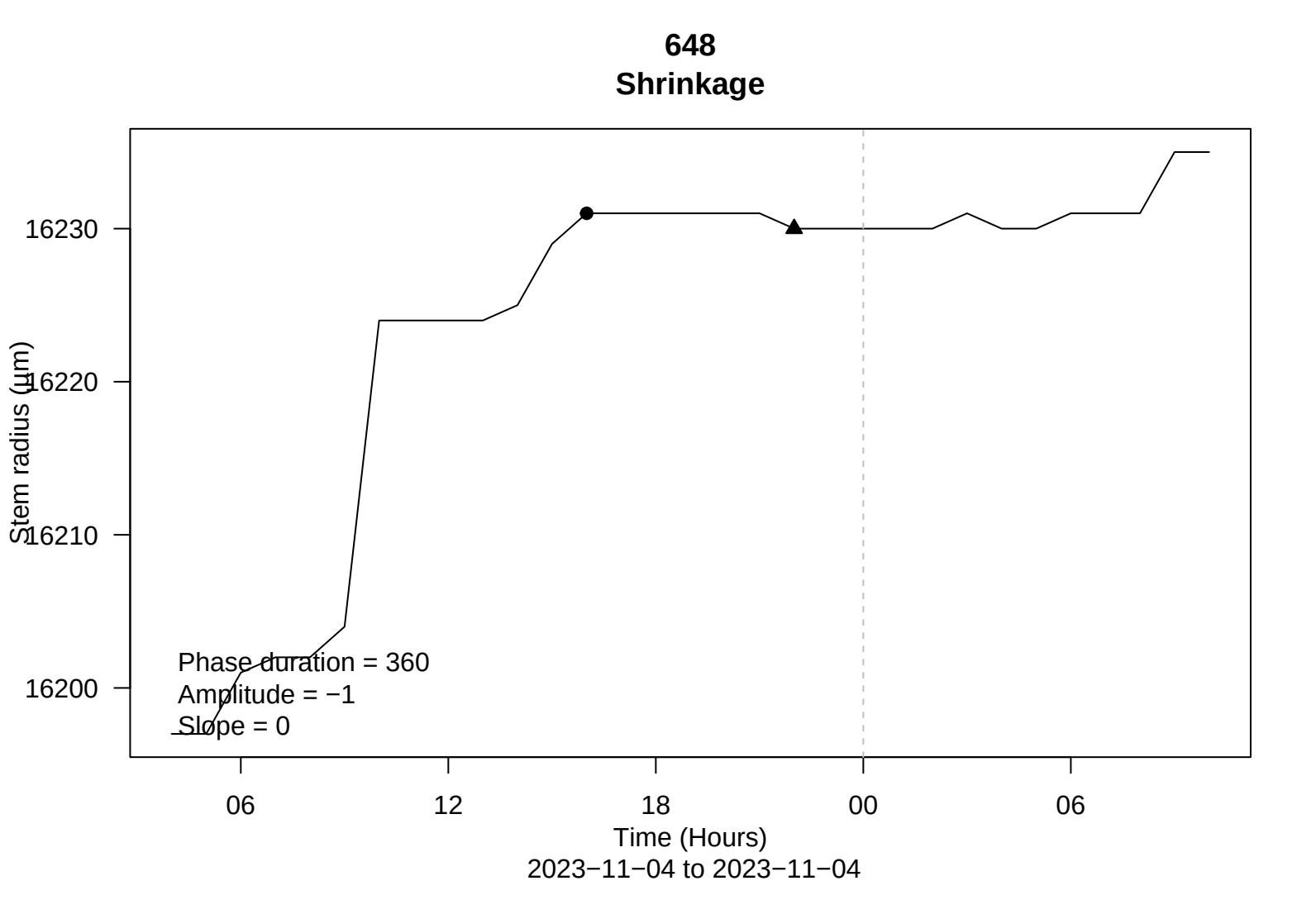

648
Expansion
16150
16100
16050
16000
Stem radius (µm)
Phase duration = 2820
Amplitude = 215
Slope = 0.0011
00
00
00
00
Time (Hours)
2023−10−31 to 2023−11−02

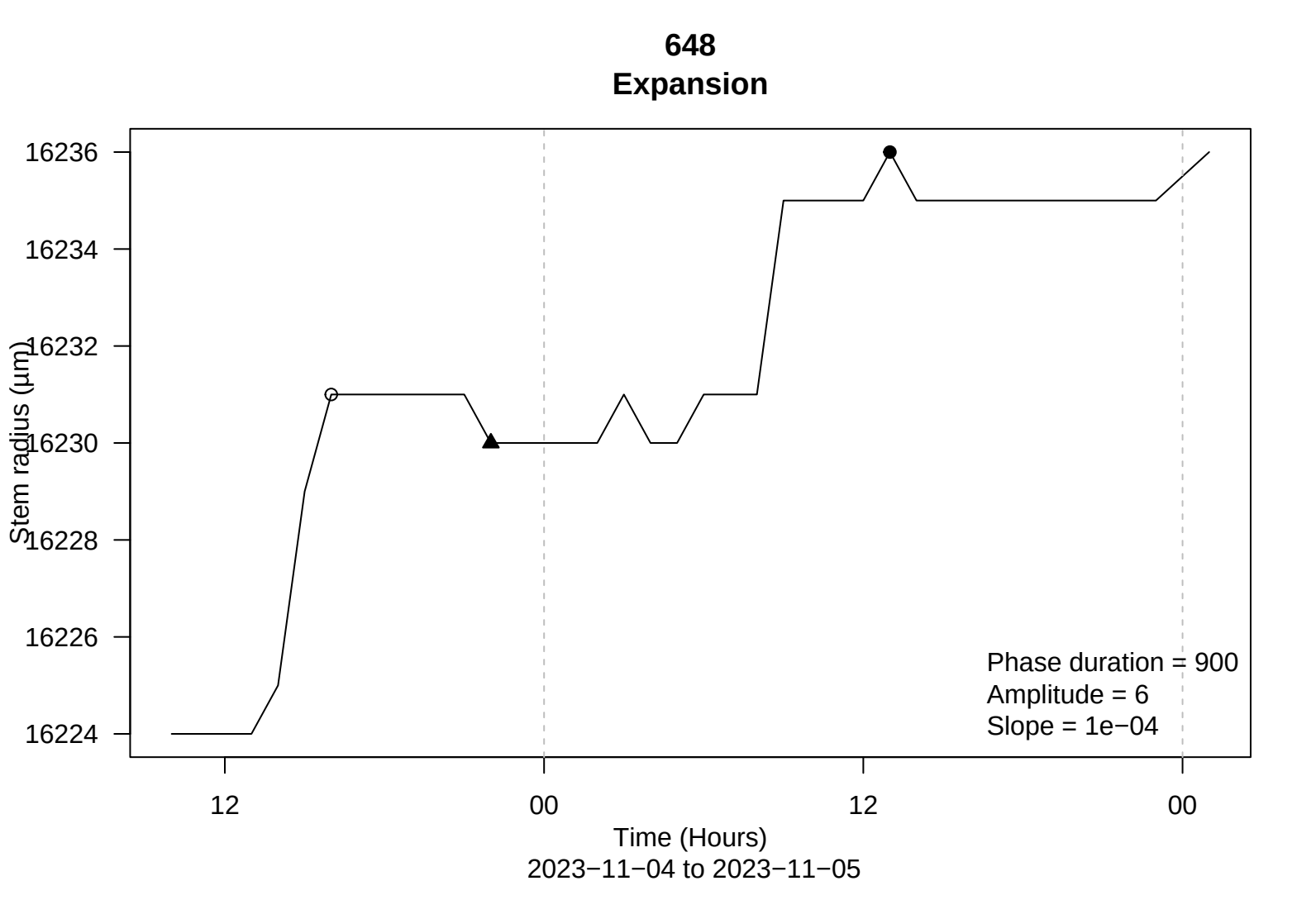

648
Shrinkage
16200
16180
16160
16140
16120
16100
Stem radius (µm)
Phase duration = 720
Amplitude = −1
Slope = 0
00
12
00
12
Time (Hours)
2023−11−02 to 2023−11−03

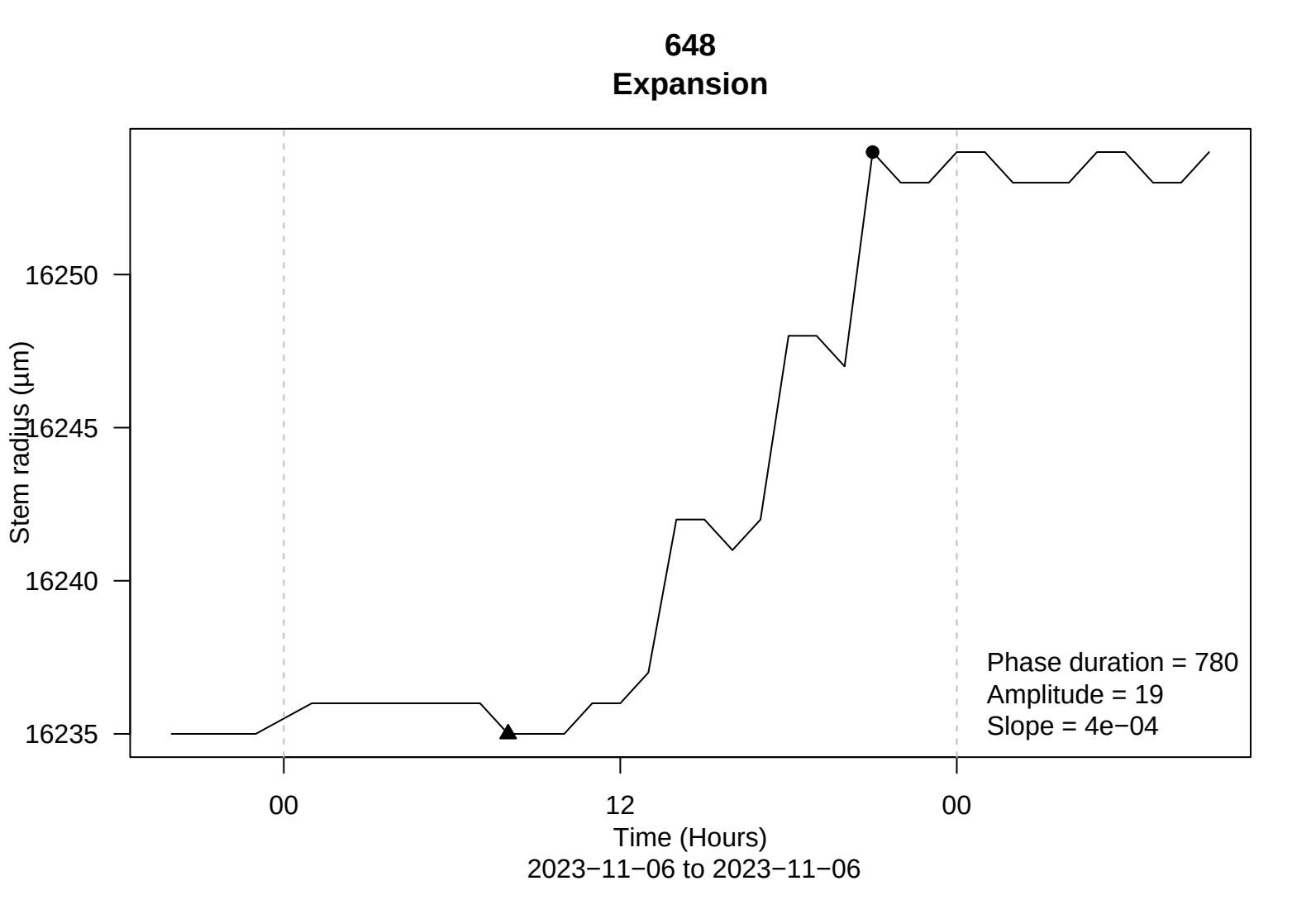

648
Expansion
16198
16196
16194
16192
16190
16188
Stem radius (µm)
Phase duration = 840
Amplitude = 11
Slope = 2e−04
12
00
12
00
Time (Hours)
2023−11−03 to 2023−11−03

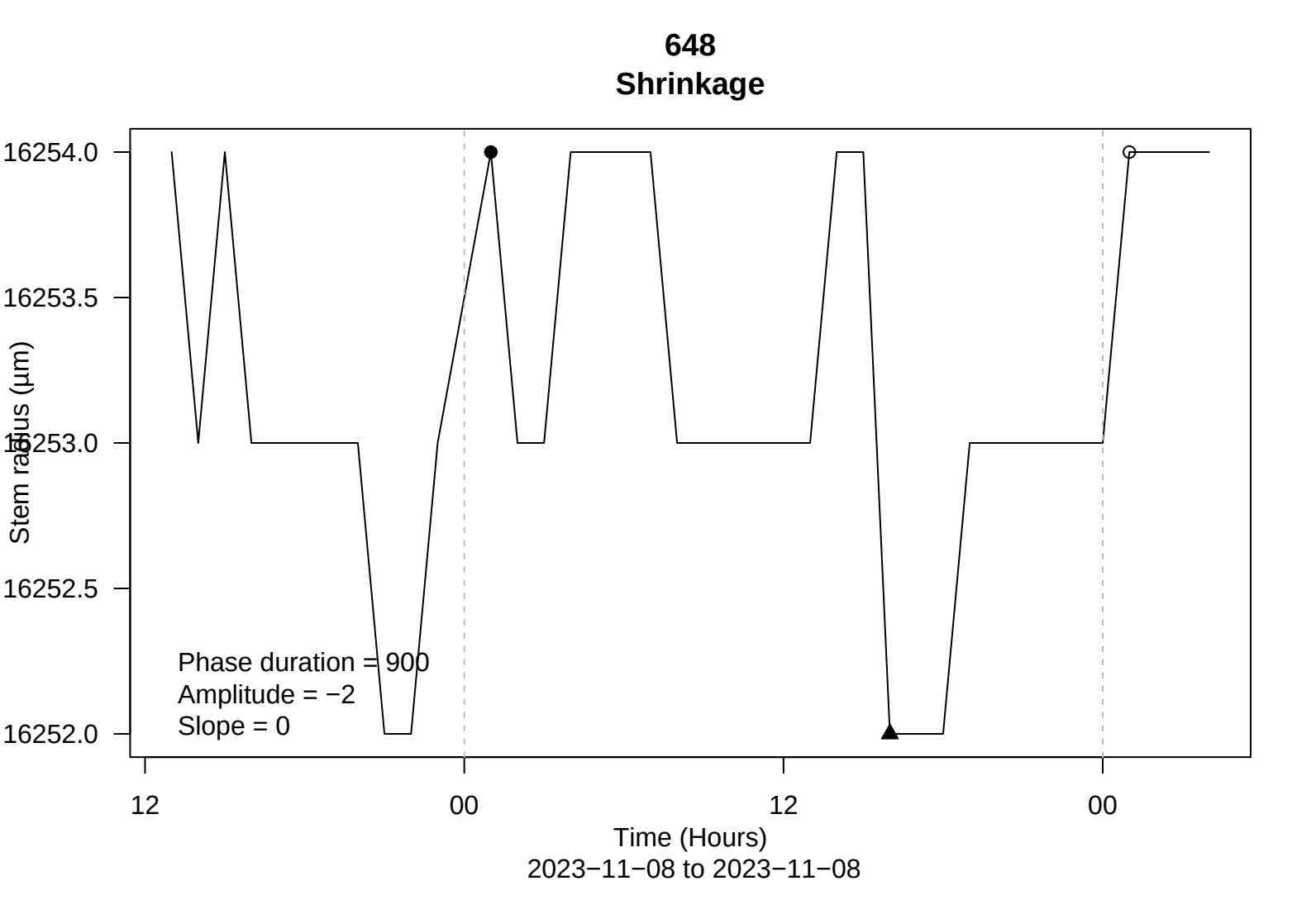

648
Shrinkage
16220
16210
16200
16190
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = 0
06
12
18
00
06
Time (Hours)
2023−11−03 to 2023−11−03

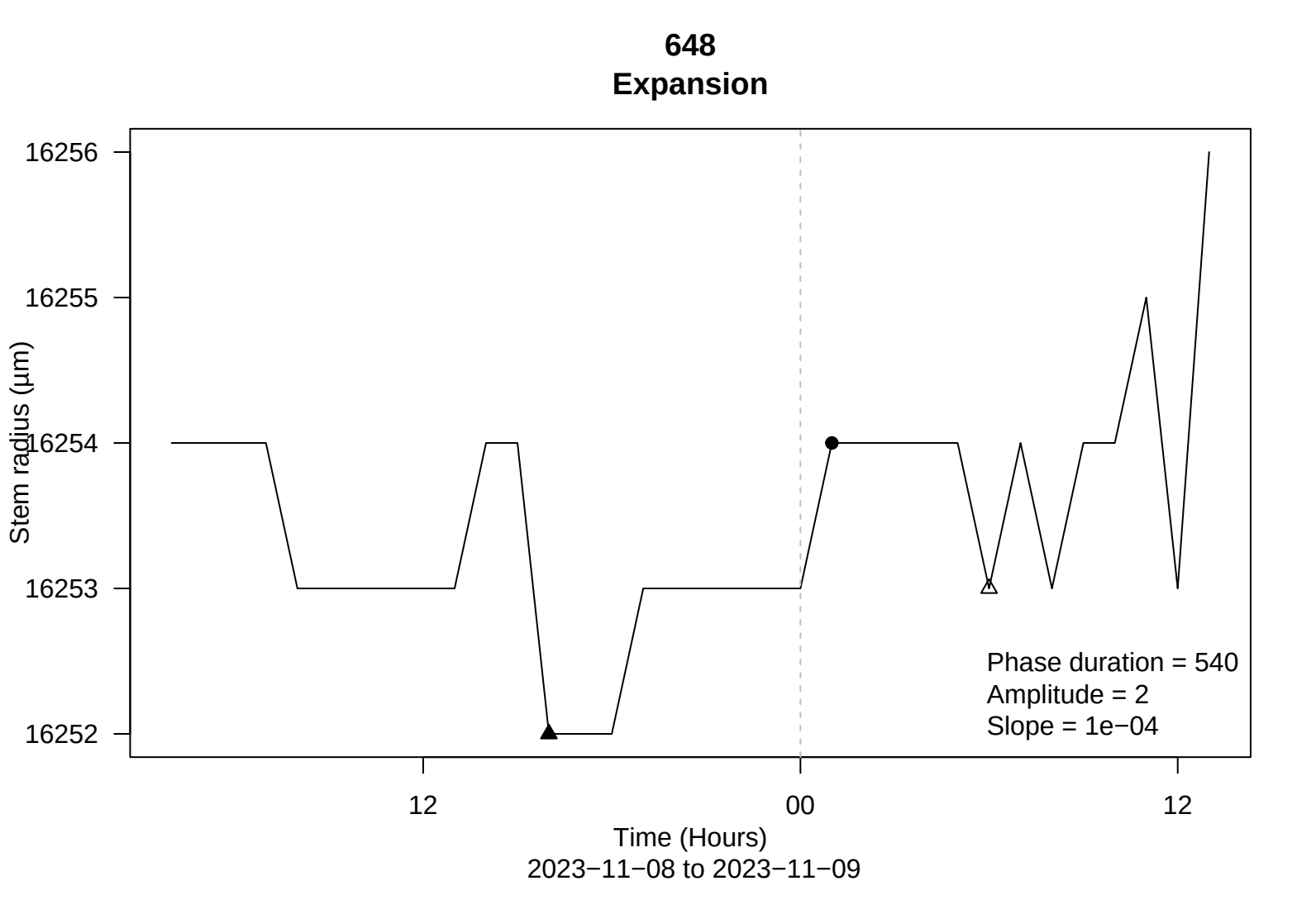

648
Expansion
16230
16220
16210
16200
16190
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−03 to 2023−11−04
Phase duration = 1080
Amplitude = 35
Slope = 6e−04

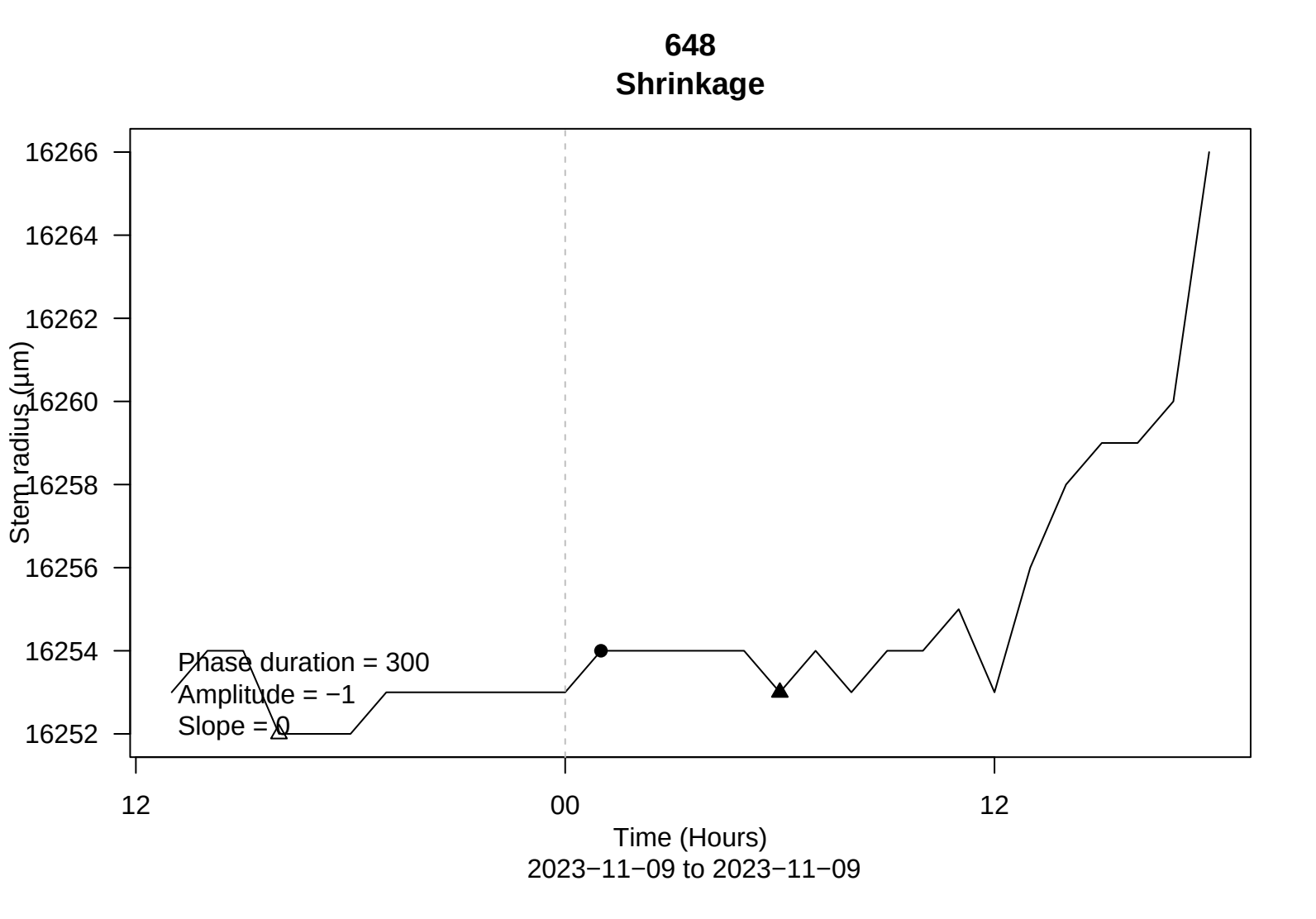

648
Shrinkage
16230
16220
16210
16200
Stem radius (µm)
Phase duration = 360
Amplitude = −1
Slope = 0
06
12
18
00
06
Time (Hours)
2023−11−04 to 2023−11−04

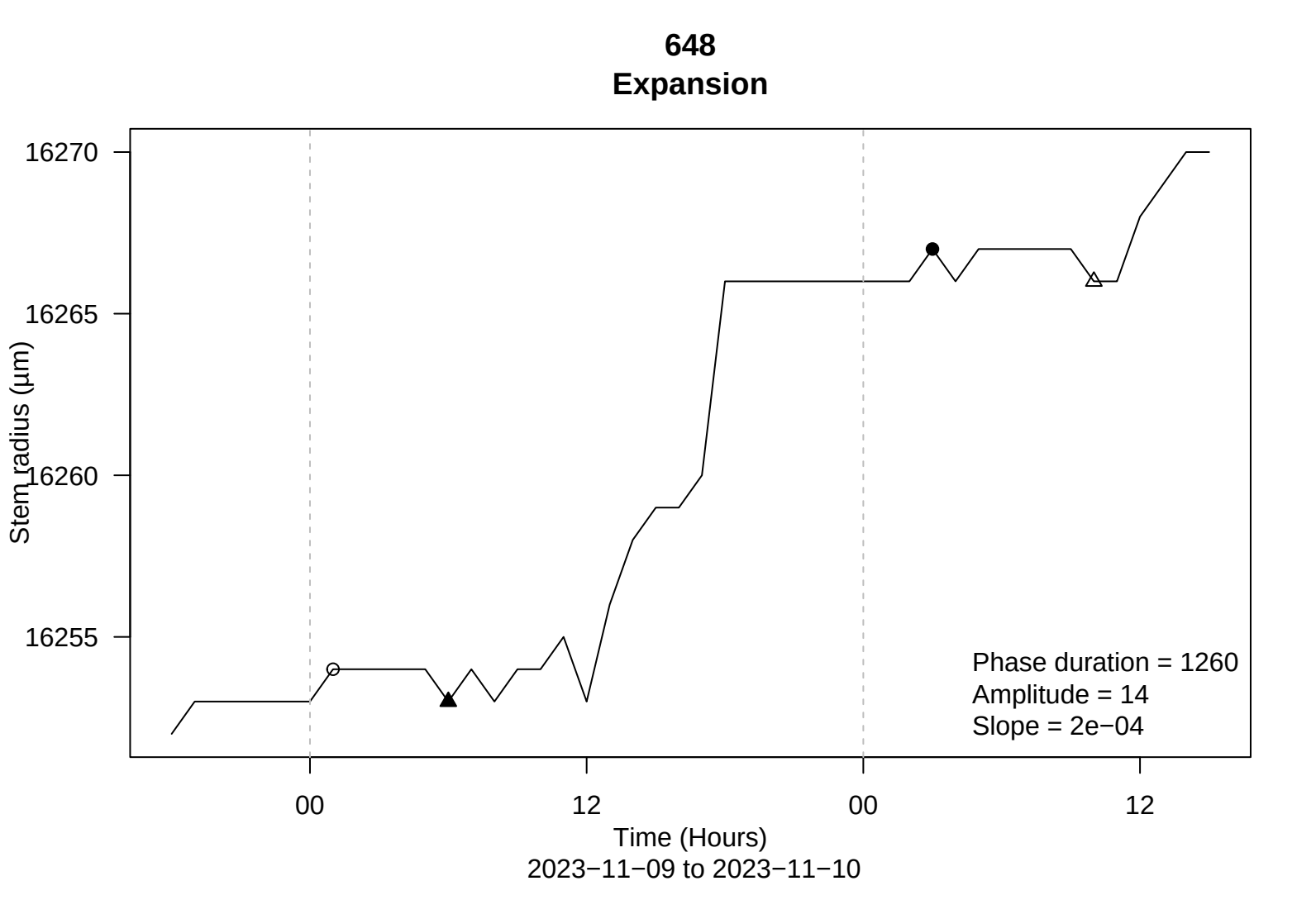

648
Expansion
16236
16234
16232
16230
16228
16226
16224
Stem radius (µm)
Phase duration = 900
Amplitude = 6
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−11−04 to 2023−11−05

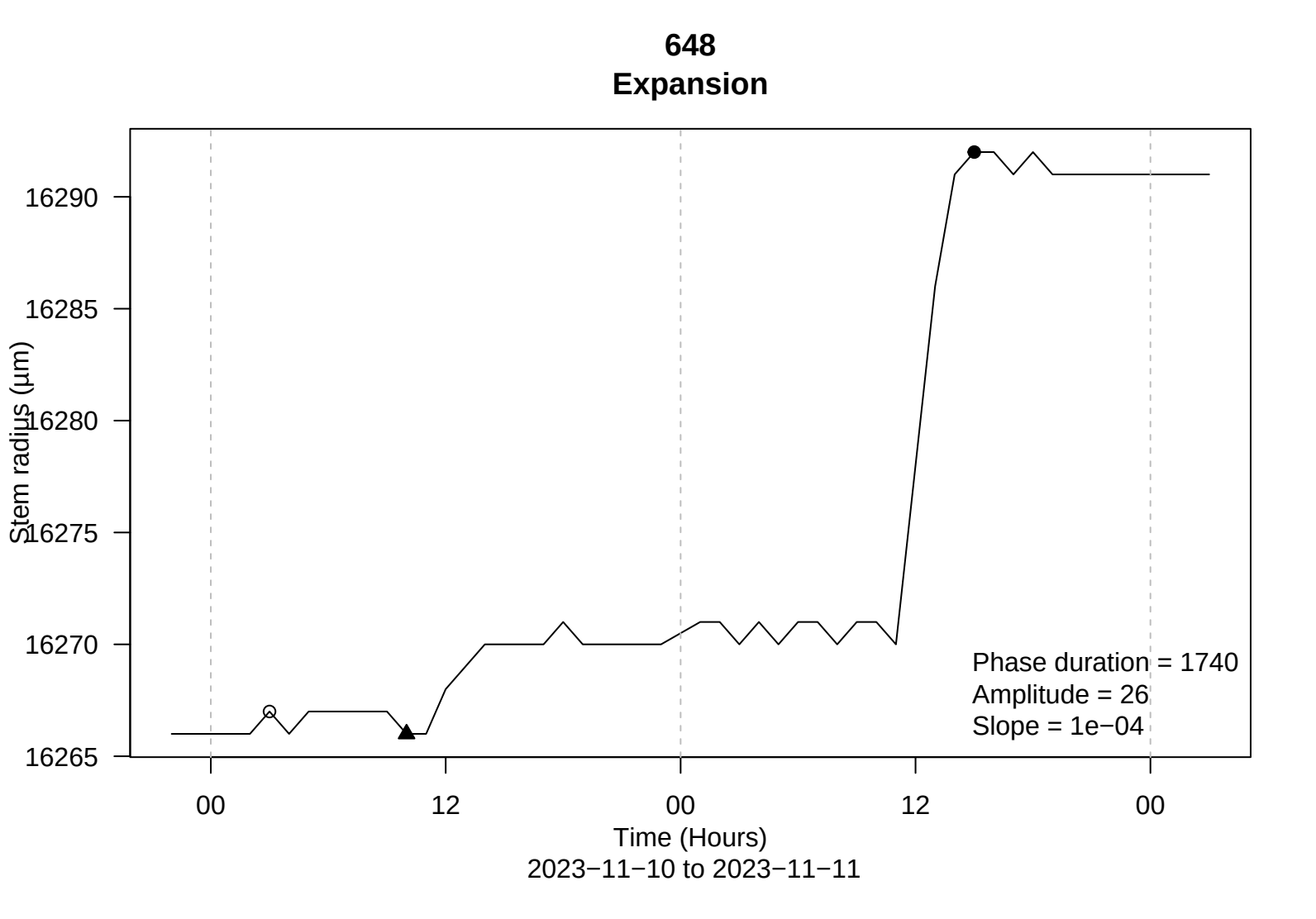

648
Expansion
16250
16245
16240
16235
Stem radius (µm)
Phase duration = 780
Amplitude = 19
Slope = 4e−04
00
12
00
Time (Hours)
2023−11−06 to 2023−11−06

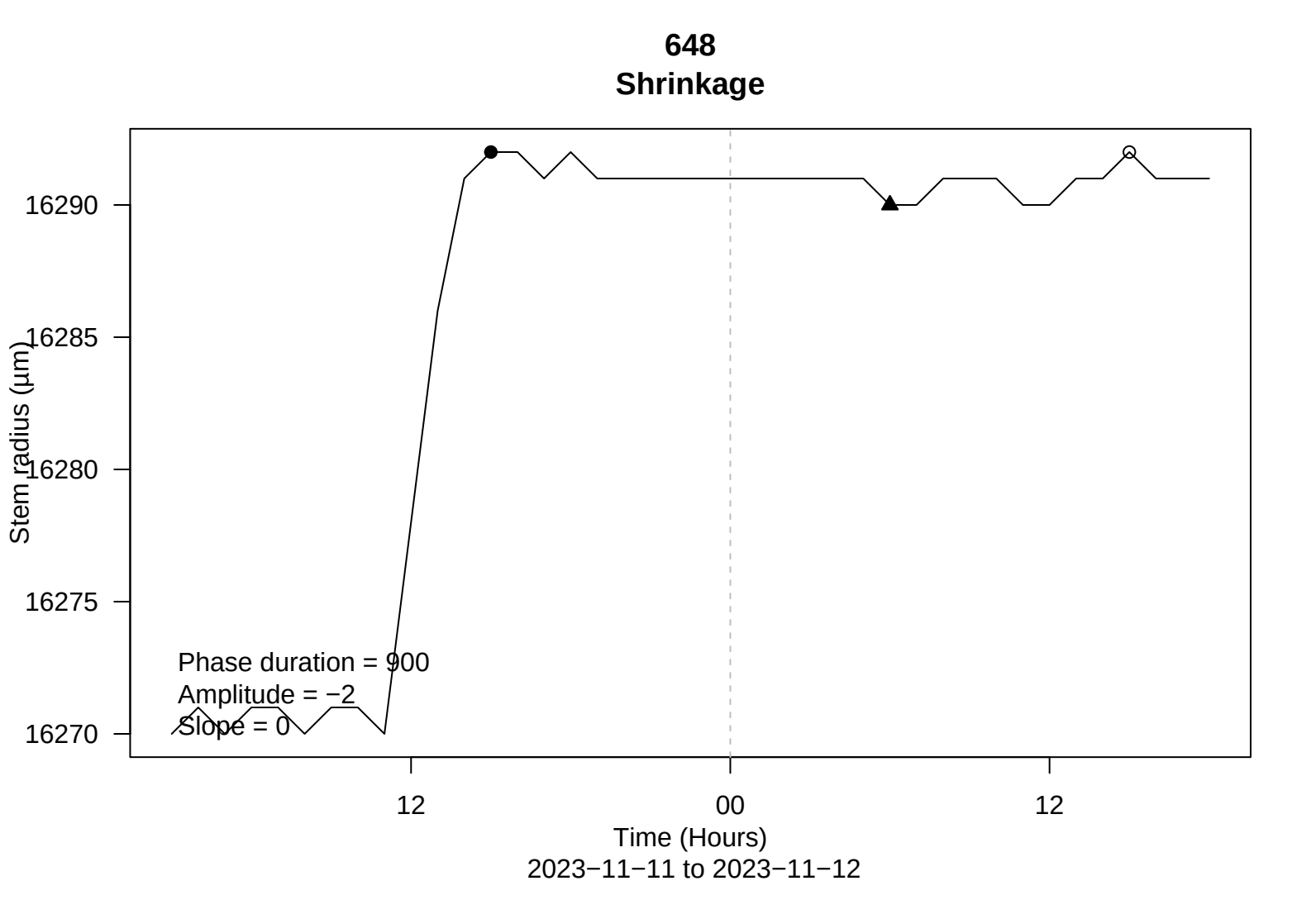

648
Shrinkage
16254.0
16253.5
16253.0
16252.5
16252.0
Stem radius (µm)
Phase duration = 900
Amplitude = −2
Slope = 0
12
00
12
00
Time (Hours)
2023−11−08 to 2023−11−08

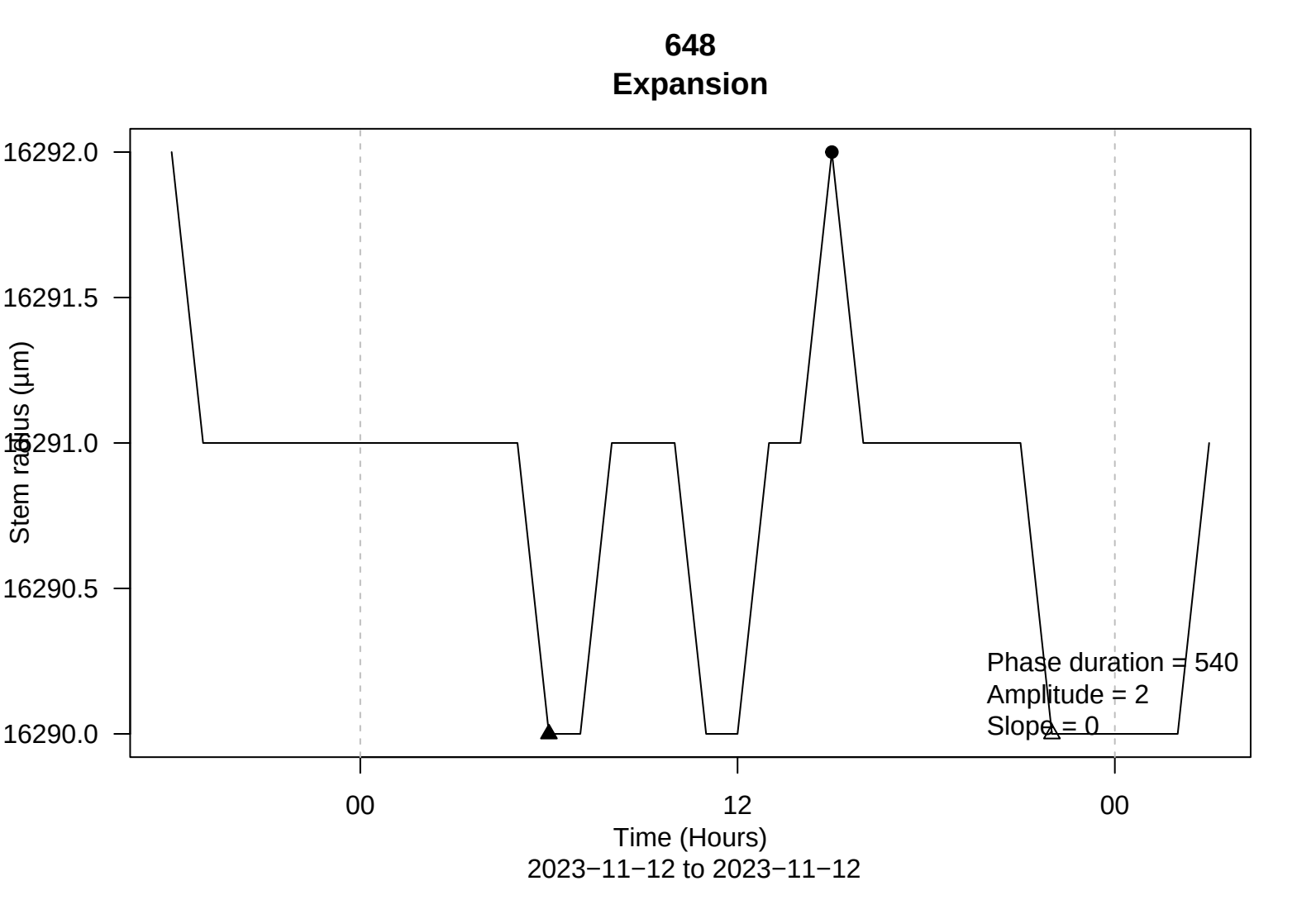

648
Expansion
16256
16255
16254
16253
16252
Stem radius (µm)
12
00
12
Time (Hours)
2023−11−08 to 2023−11−09
Phase duration = 540
Amplitude = 2
Slope = 1e−04

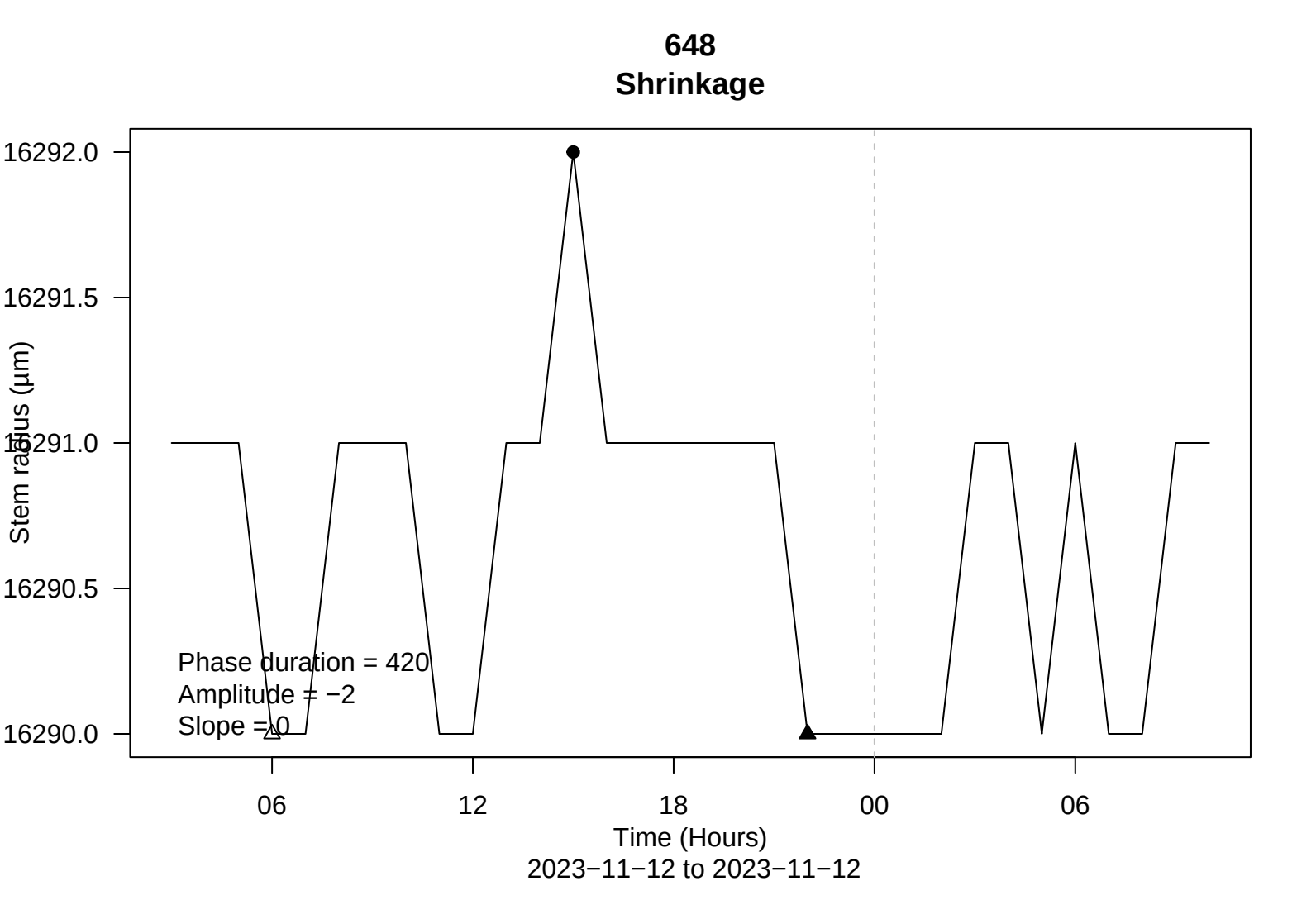

648
Shrinkage
16266
16264
16262
16260
16258
16256
16254
16252
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = 0
12
00
12
Time (Hours)
2023−11−09 to 2023−11−09

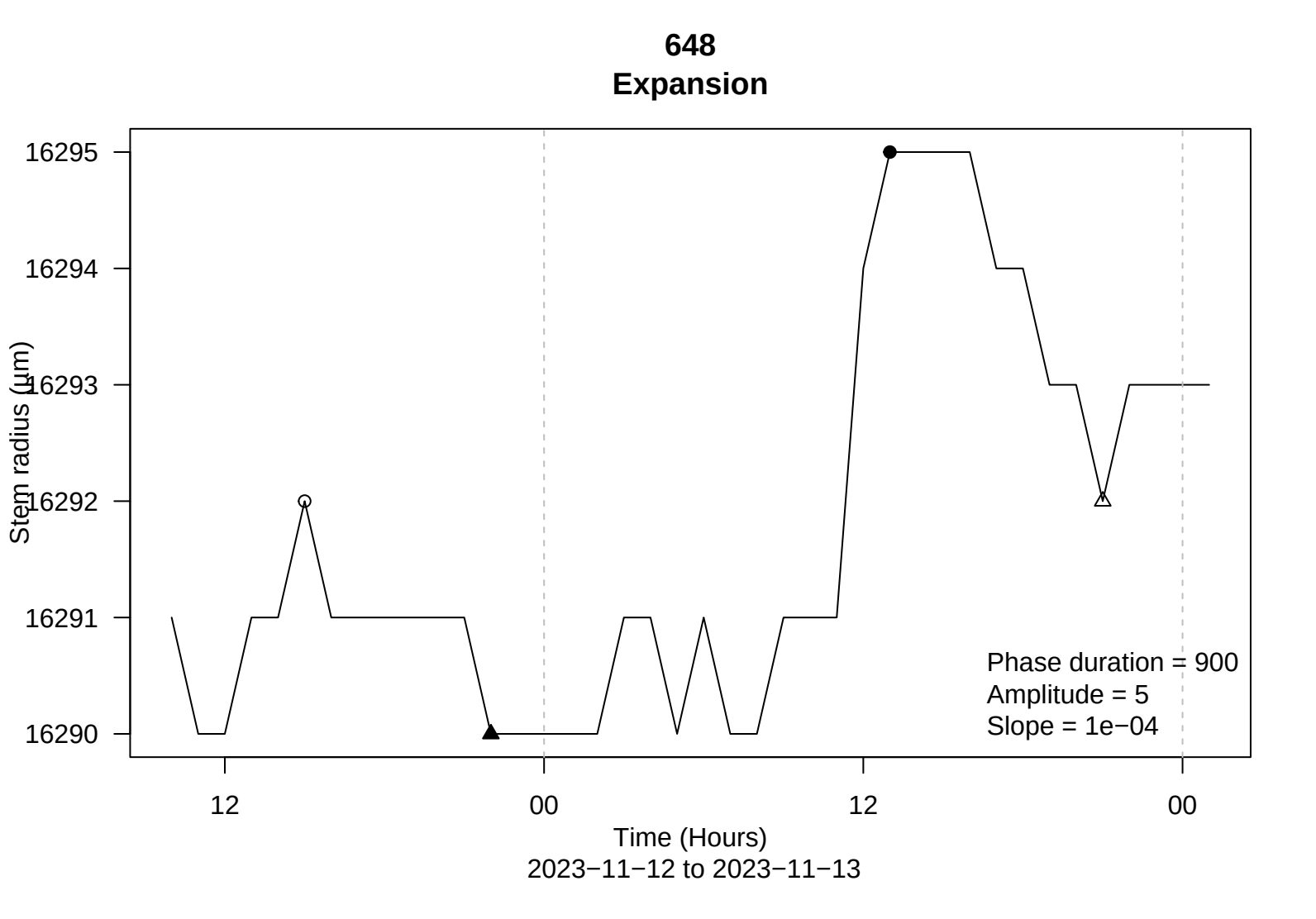

648
Expansion
16270
16265
16260
16255
Stem radius (µm)
Phase duration = 1260
Amplitude = 14
Slope = 2e−04
00
12
00
12
Time (Hours)
2023−11−09 to 2023−11−10

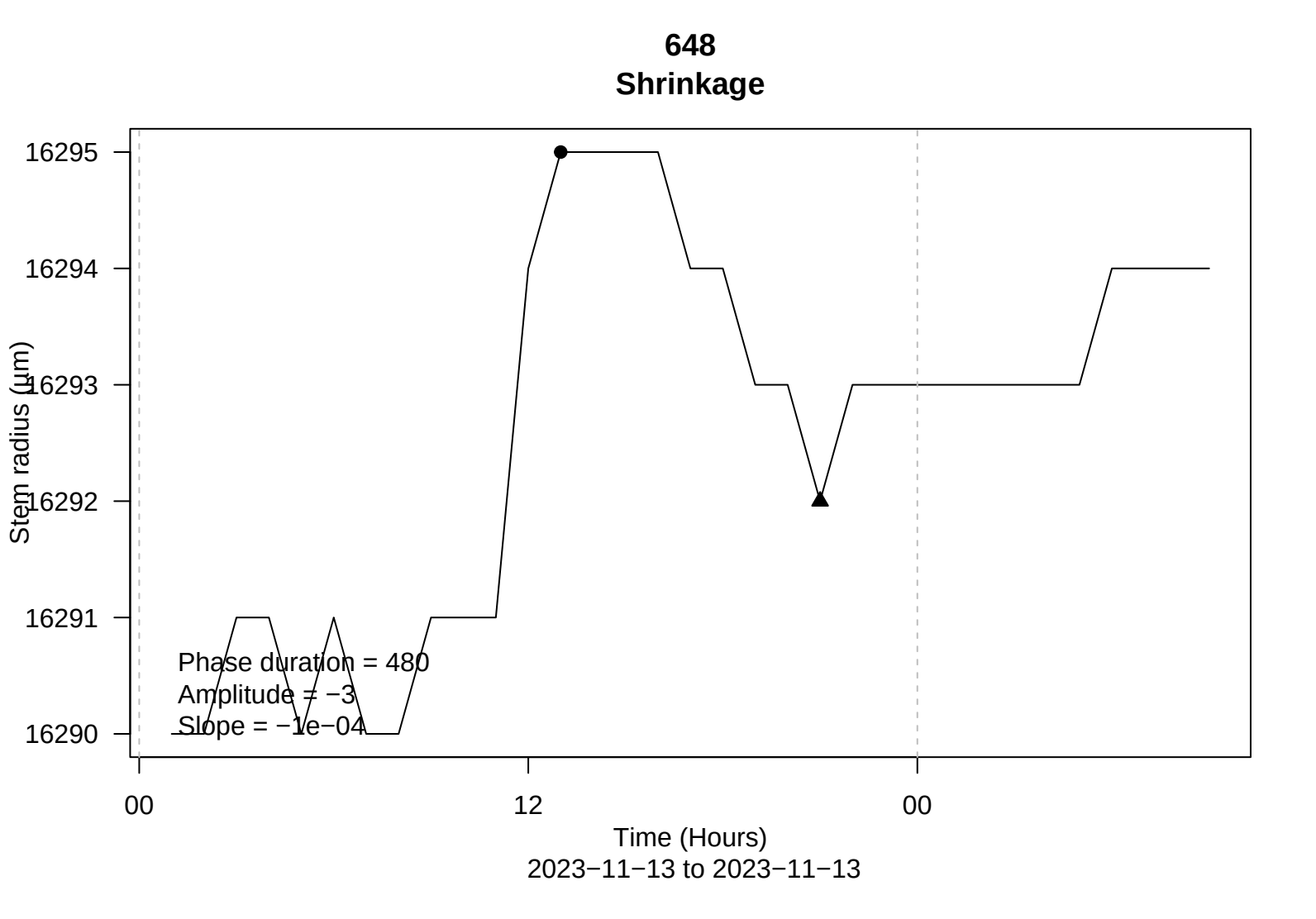

648
Expansion
16290
16285
16280
16275
16270
16265
Stem radius (µm)
00
12
00
12
00
Time (Hours)
2023−11−10 to 2023−11−11
Phase duration = 1740
Amplitude = 26
Slope = 1e−04

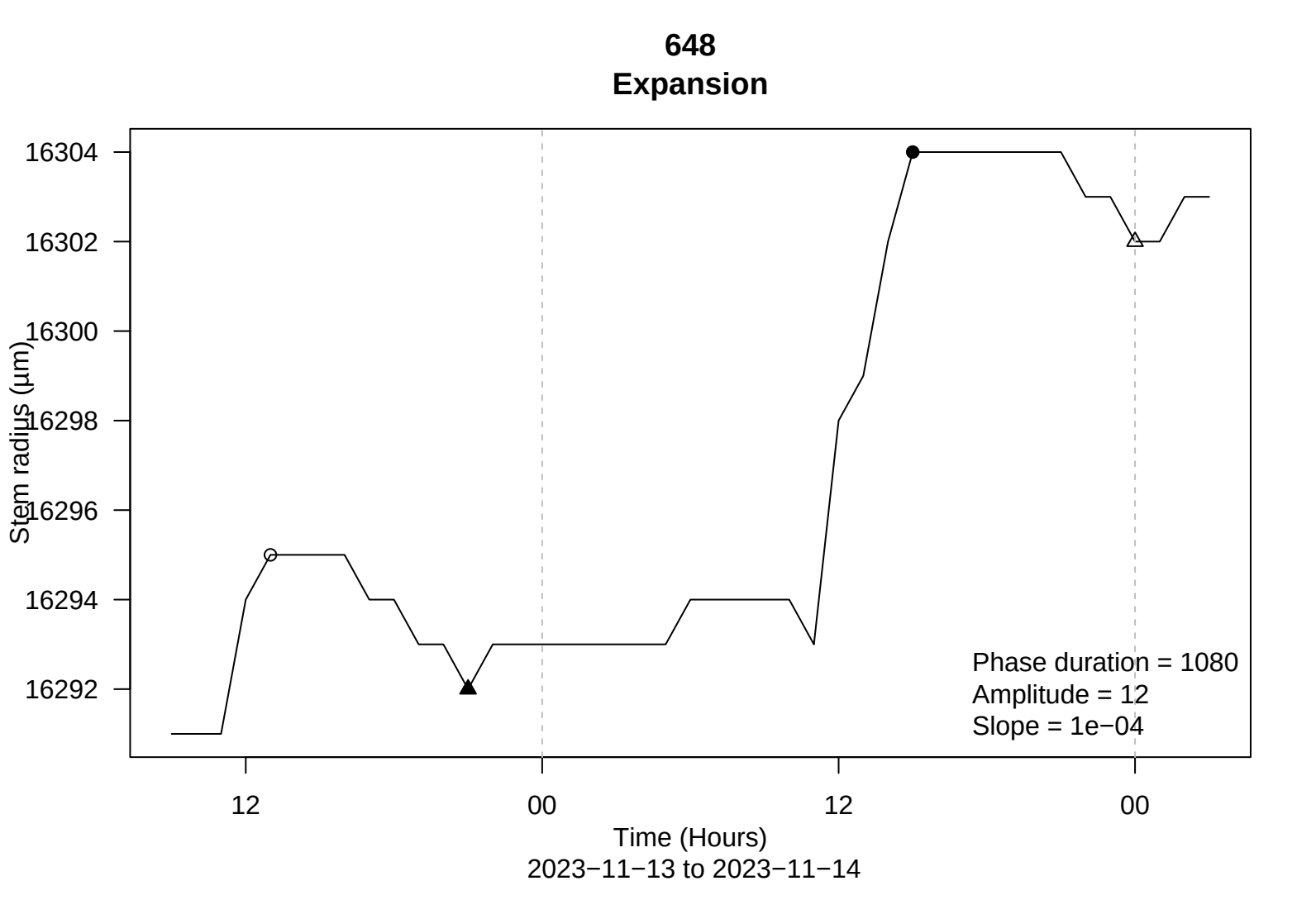

648
Shrinkage
16290
16285
16280
16275
16270
Stem radius (µm)
Phase duration = 900
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−11−11 to 2023−11−12

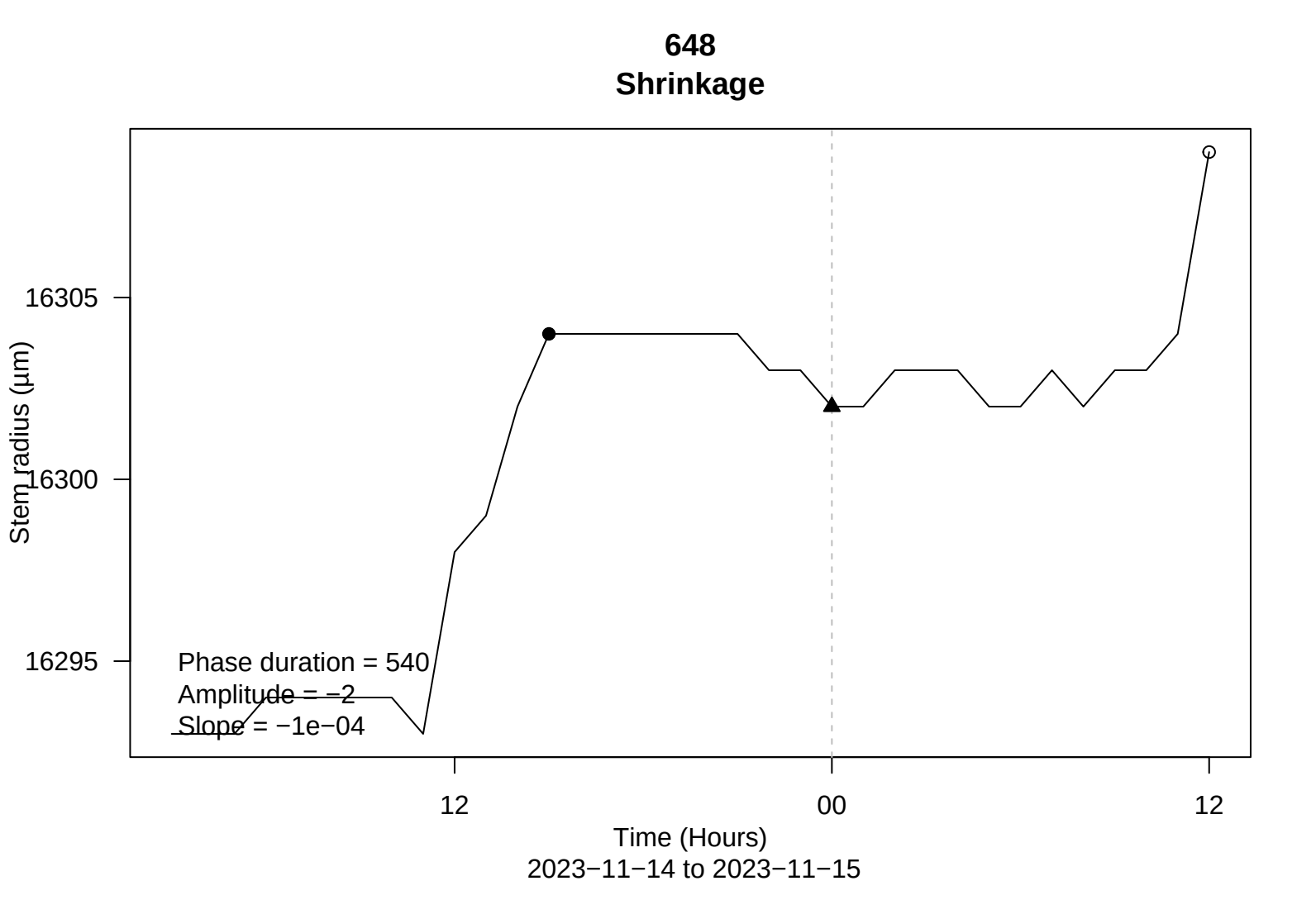

648
Expansion
16292.0
16291.5
16291.0
16290.5
16290.0
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−11−12 to 2023−11−12

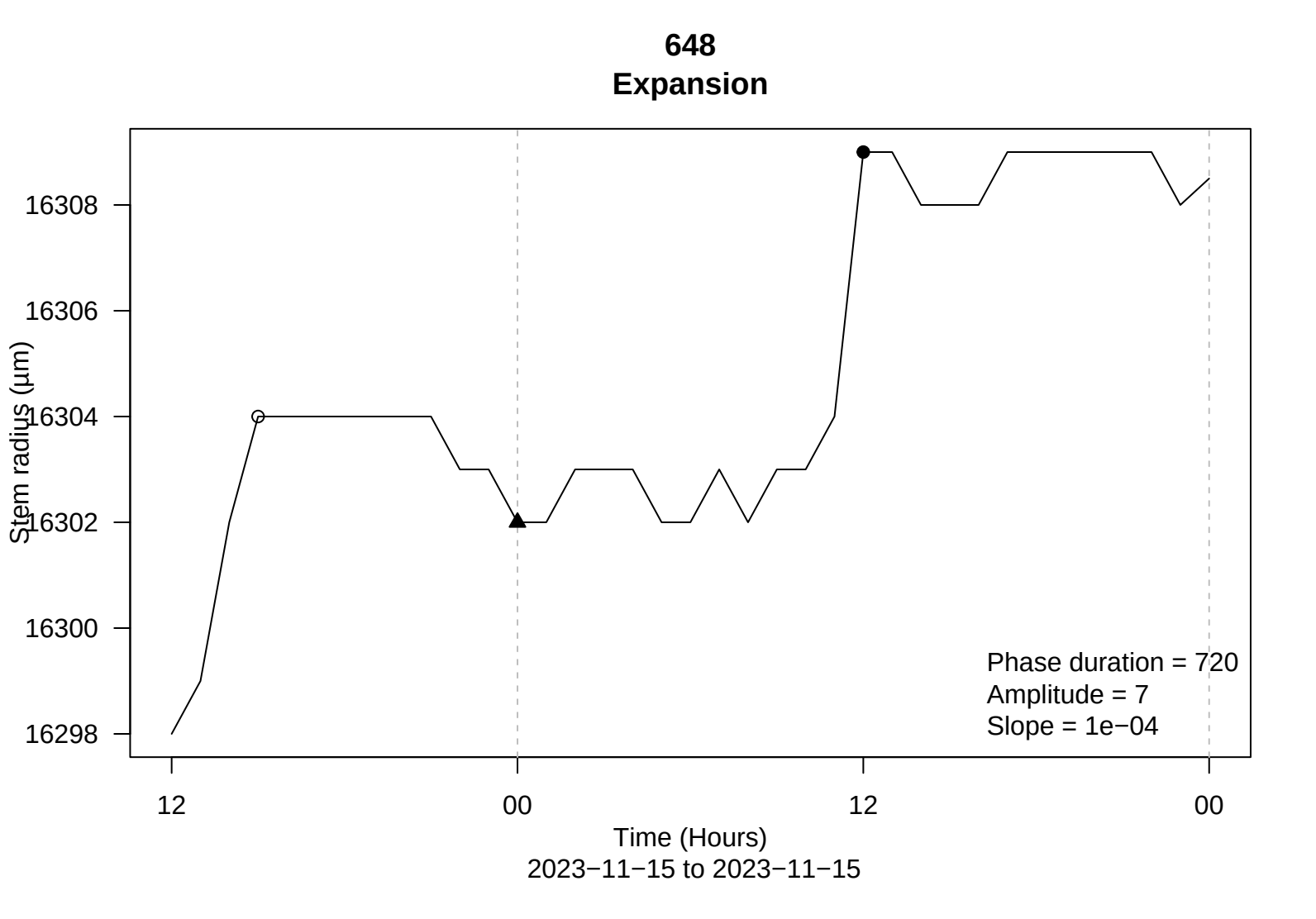

648
Shrinkage
16292.0
16291.5
16291.0
16290.5
16290.0
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = 0
06
12
18
00
06
Time (Hours)
2023−11−12 to 2023−11−12

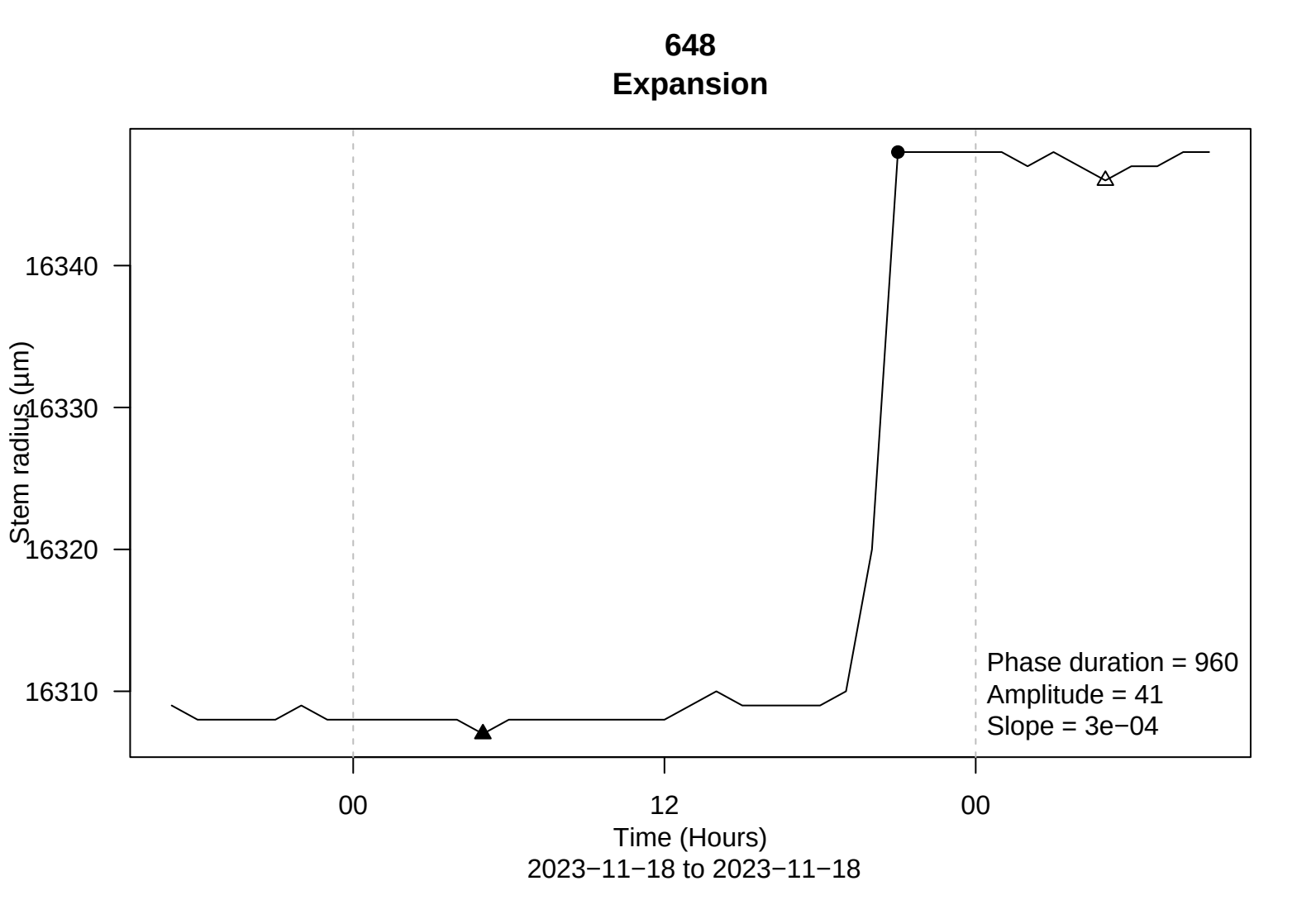

648
Expansion
16295
16294
16293
16292
16291
16290
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−12 to 2023−11−13
Phase duration = 900
Amplitude = 5
Slope = 1e−04

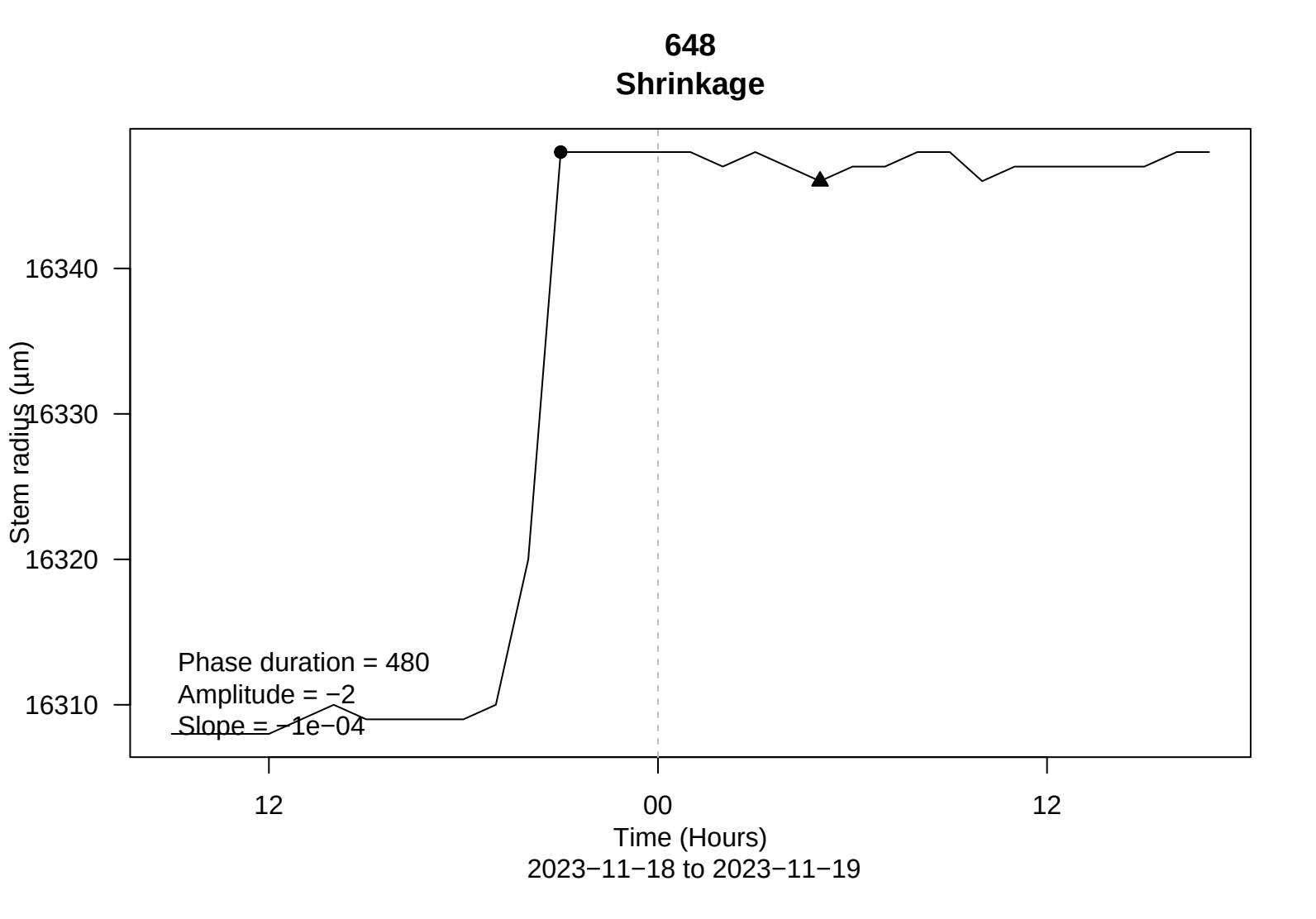

648
Shrinkage
16295
16294
16293
16292
16291
16290
Stem radius (µm)
Phase duration = 480
Amplitude = −3
Slope = −1e−04
00
12
00
Time (Hours)
2023−11−13 to 2023−11−13

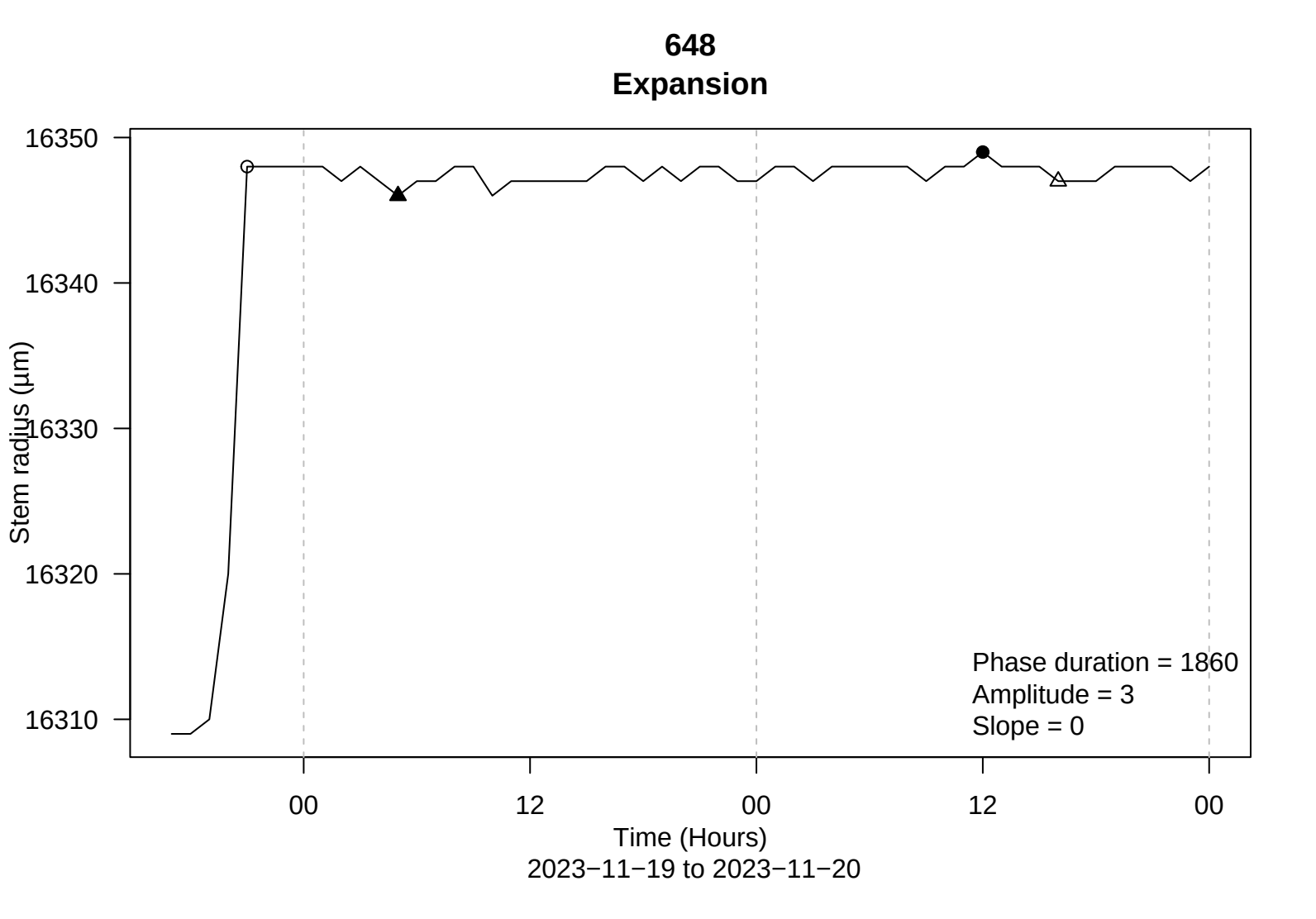

648
Expansion
16304
16302
16300
16298
16296
16294
16292
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−13 to 2023−11−14
Phase duration = 1080
Amplitude = 12
Slope = 1e−04

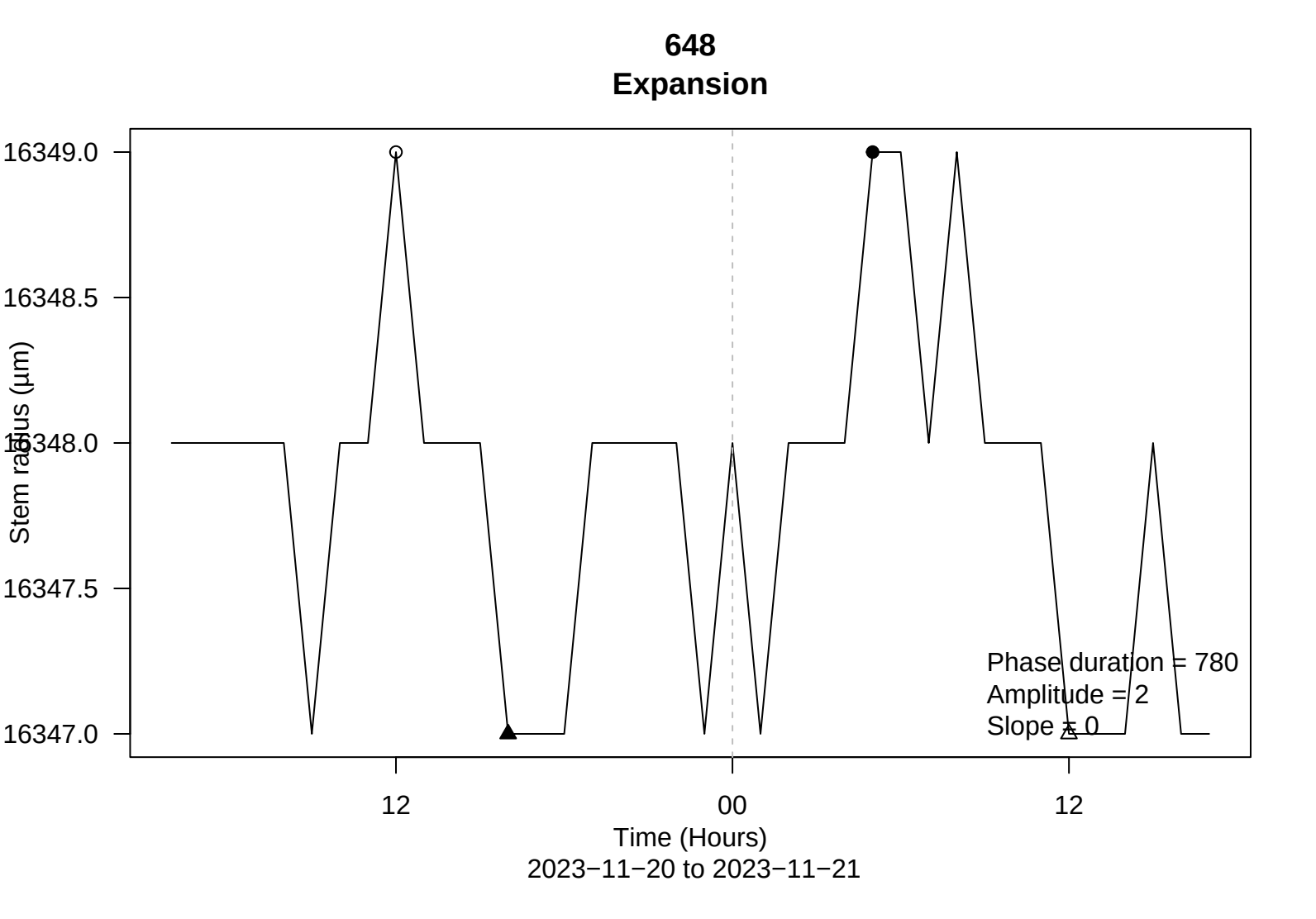

648
Shrinkage
16305
16300
16295
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2023−11−14 to 2023−11−15

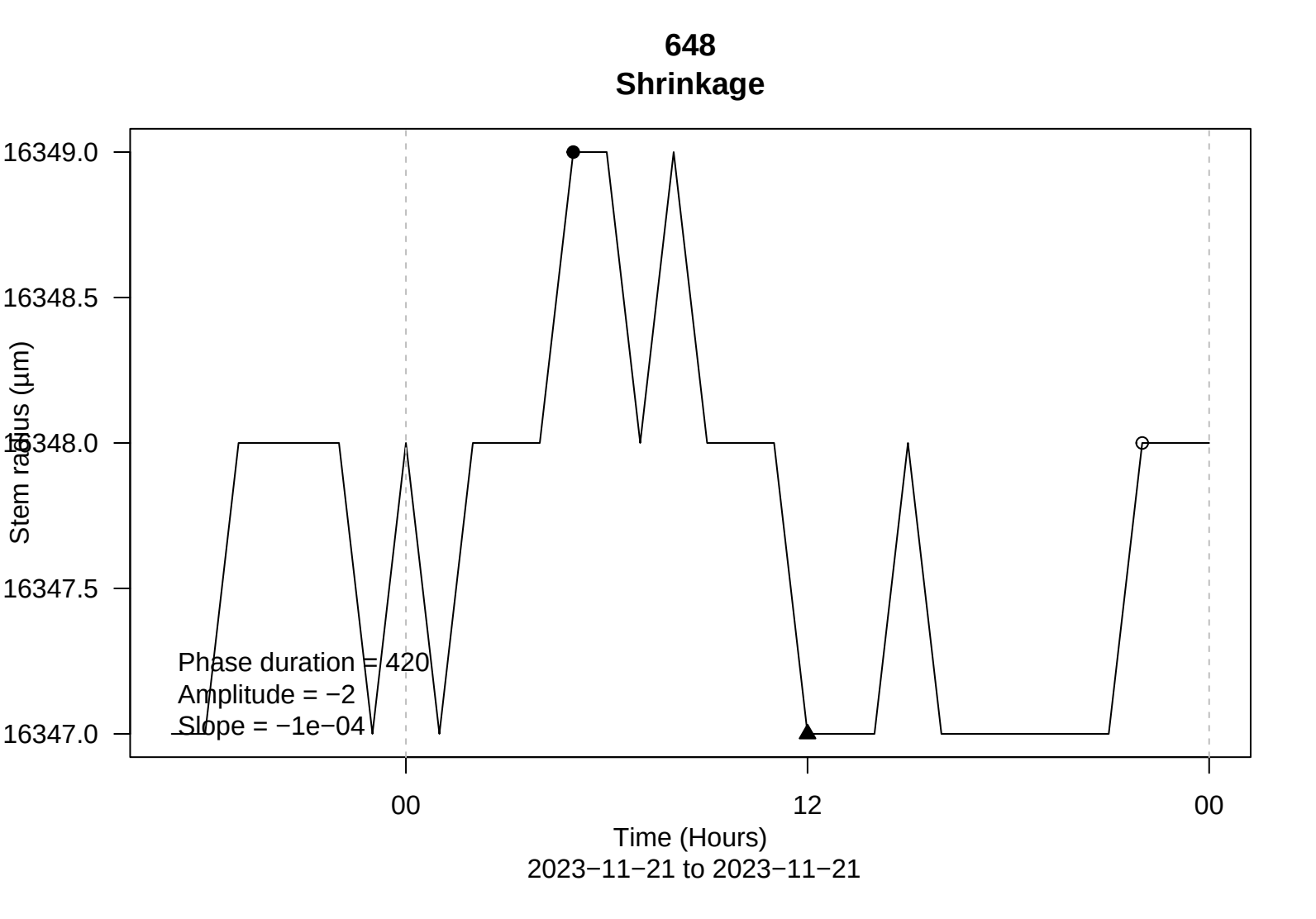

648
Expansion
16308
16306
16304
16302
16300
16298
Stem radius (µm)
Phase duration = 720
Amplitude = 7
Slope = 1e−04
12
00
12
00
Time (Hours)
2023−11−15 to 2023−11−15

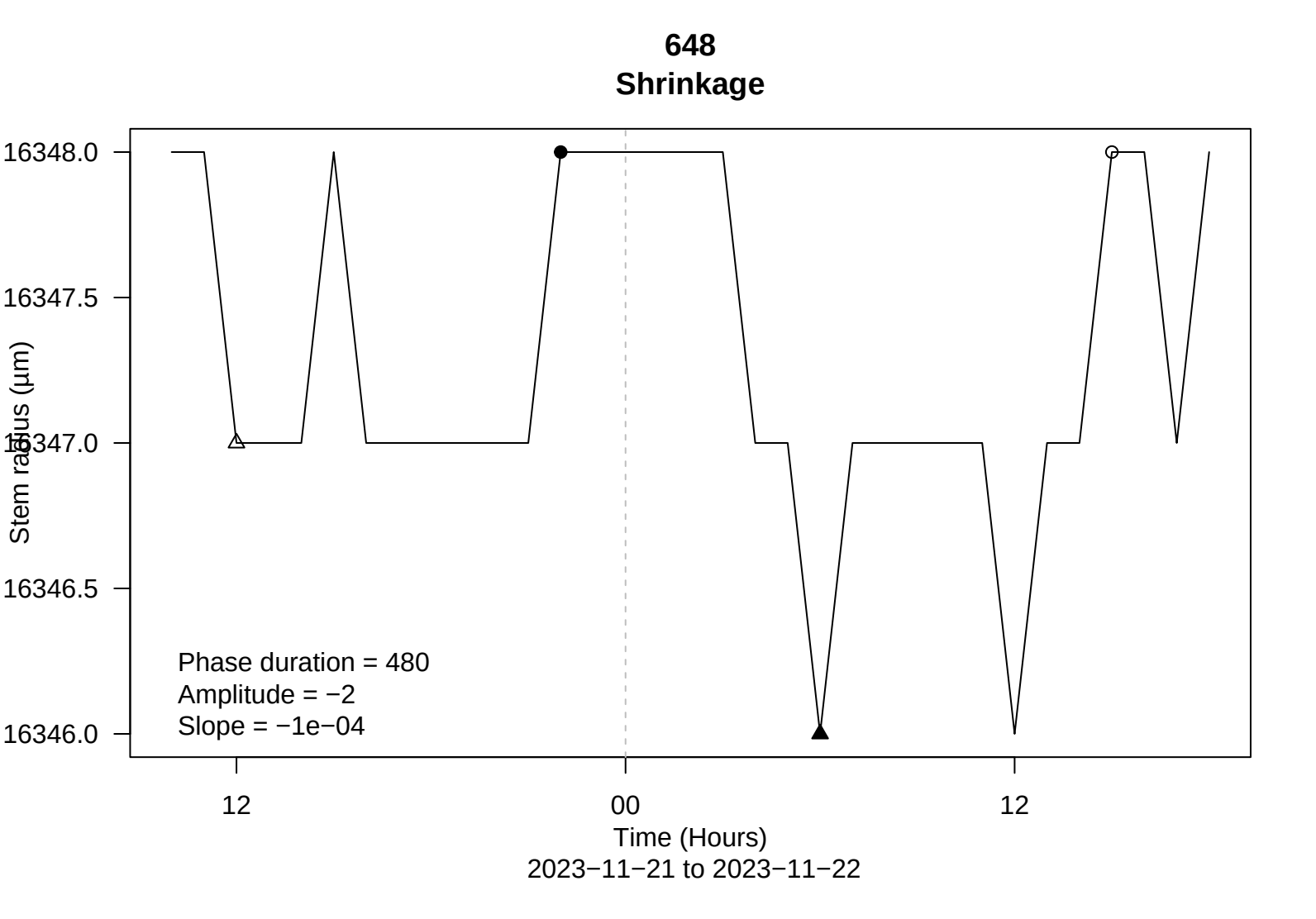

648
Expansion
16340
16330
16320
16310
Stem radius (µm)
Phase duration = 960
Amplitude = 41
Slope = 3e−04
00
12
00
Time (Hours)
2023−11−18 to 2023−11−18

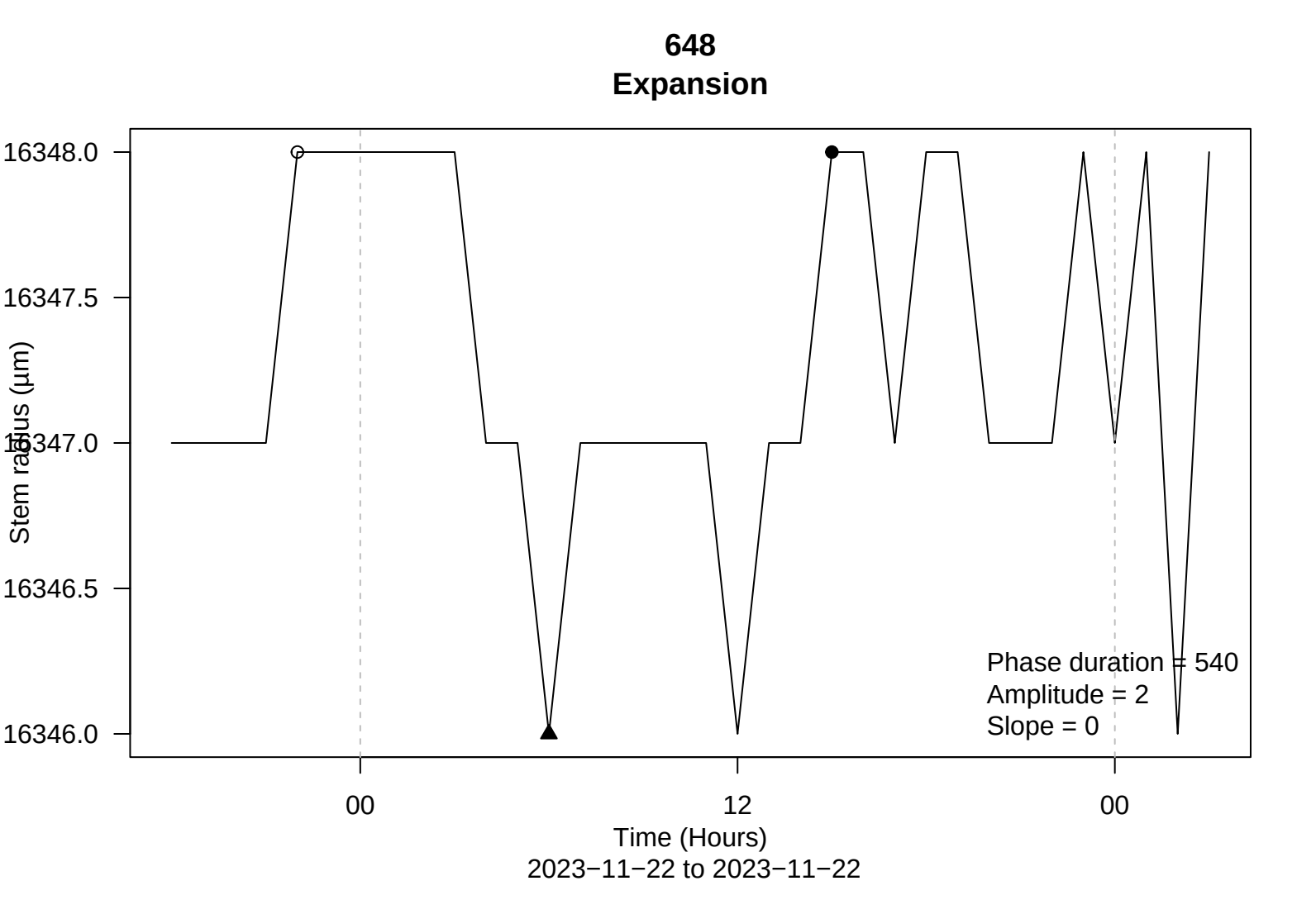

648
Shrinkage
16340
16330
16320
16310
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2023−11−18 to 2023−11−19

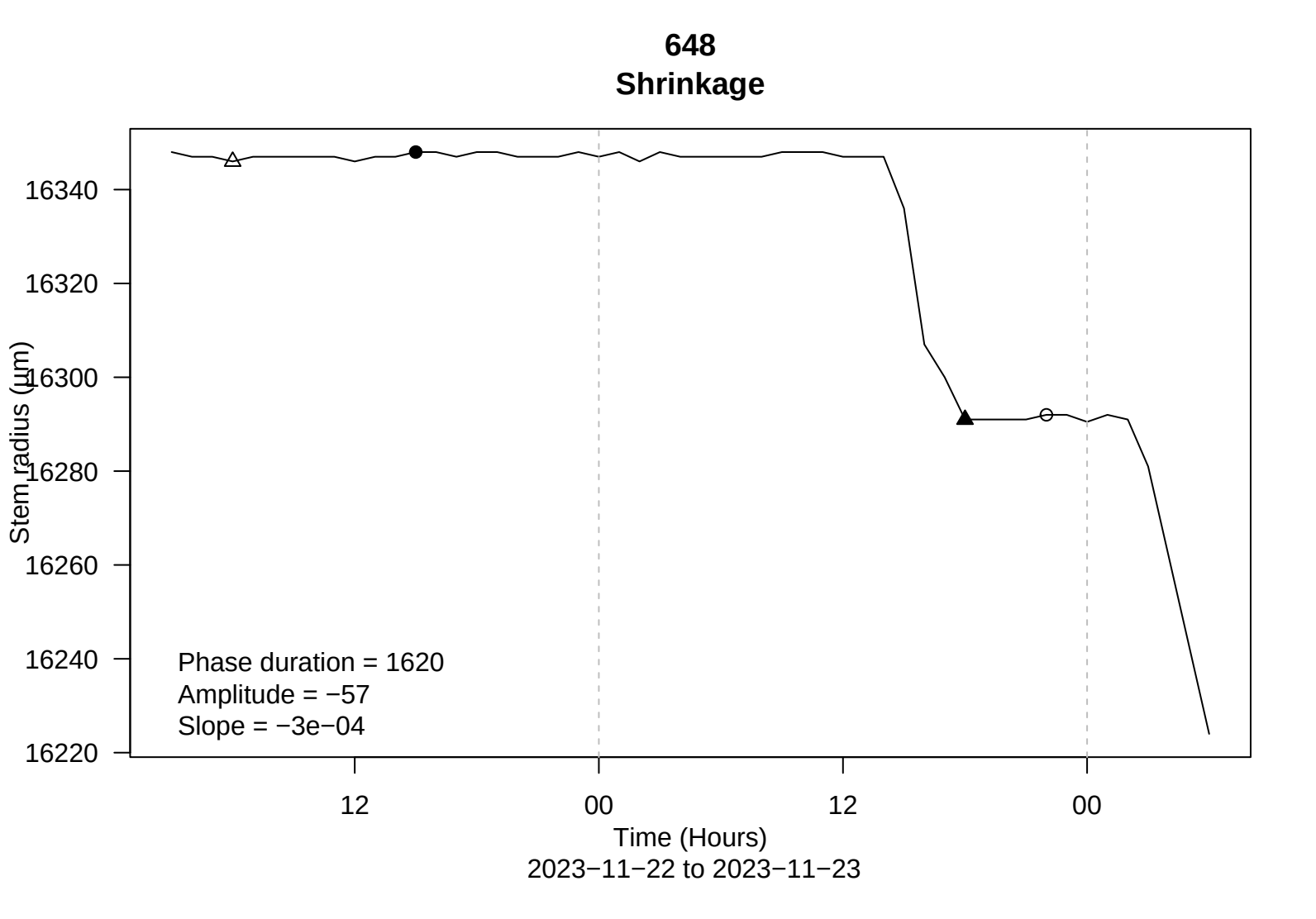

648
Expansion
16350
16340
16330
16320
16310
Stem radius (µm)
Phase duration = 1860
Amplitude = 3
Slope = 0
00
12
00
12
00
Time (Hours)
2023−11−19 to 2023−11−20

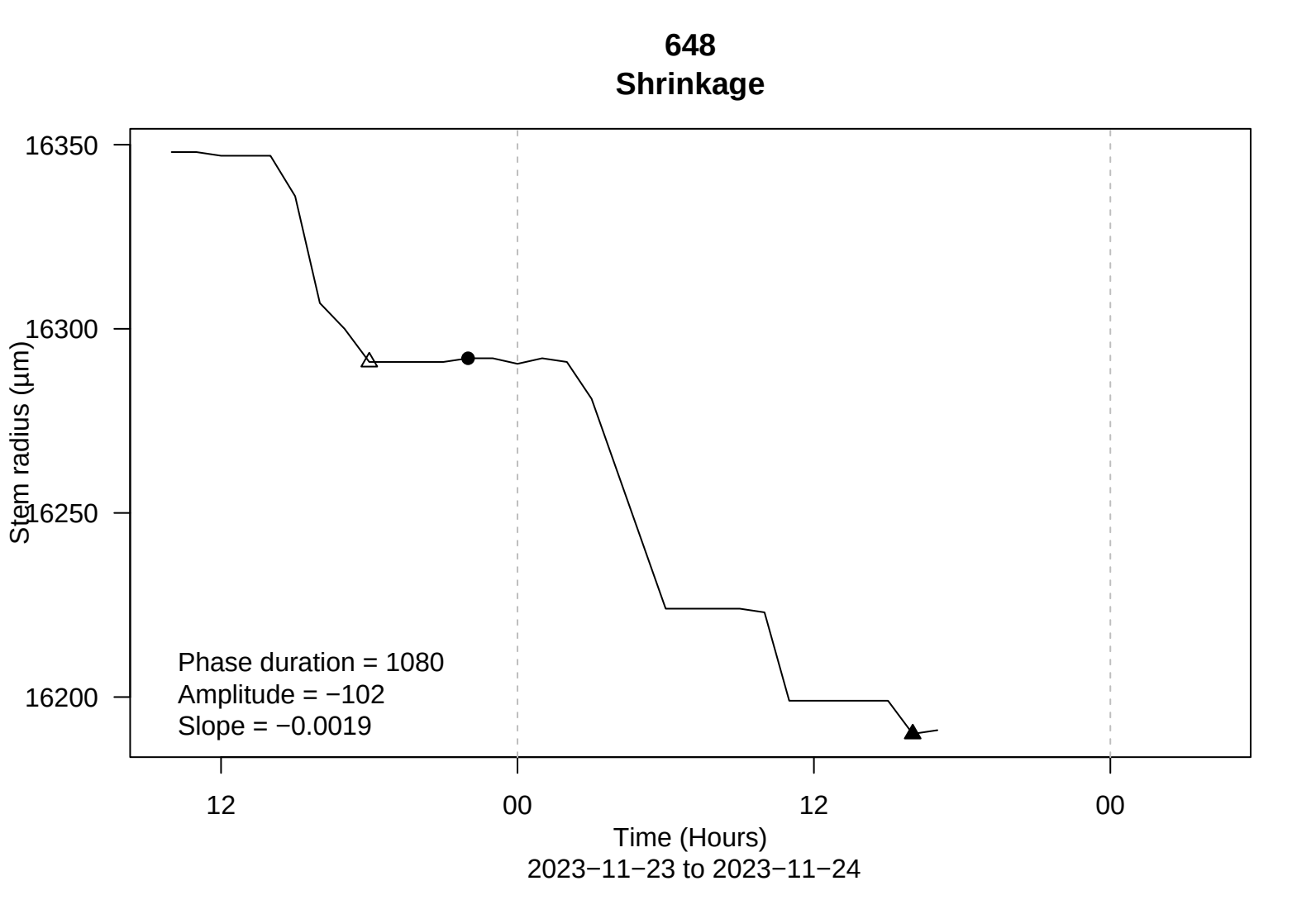

648
Expansion
16349.0
16348.5
16348.0
16347.5
16347.0
Stem radius (µm)
Phase duration = 780
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2023−11−20 to 2023−11−21

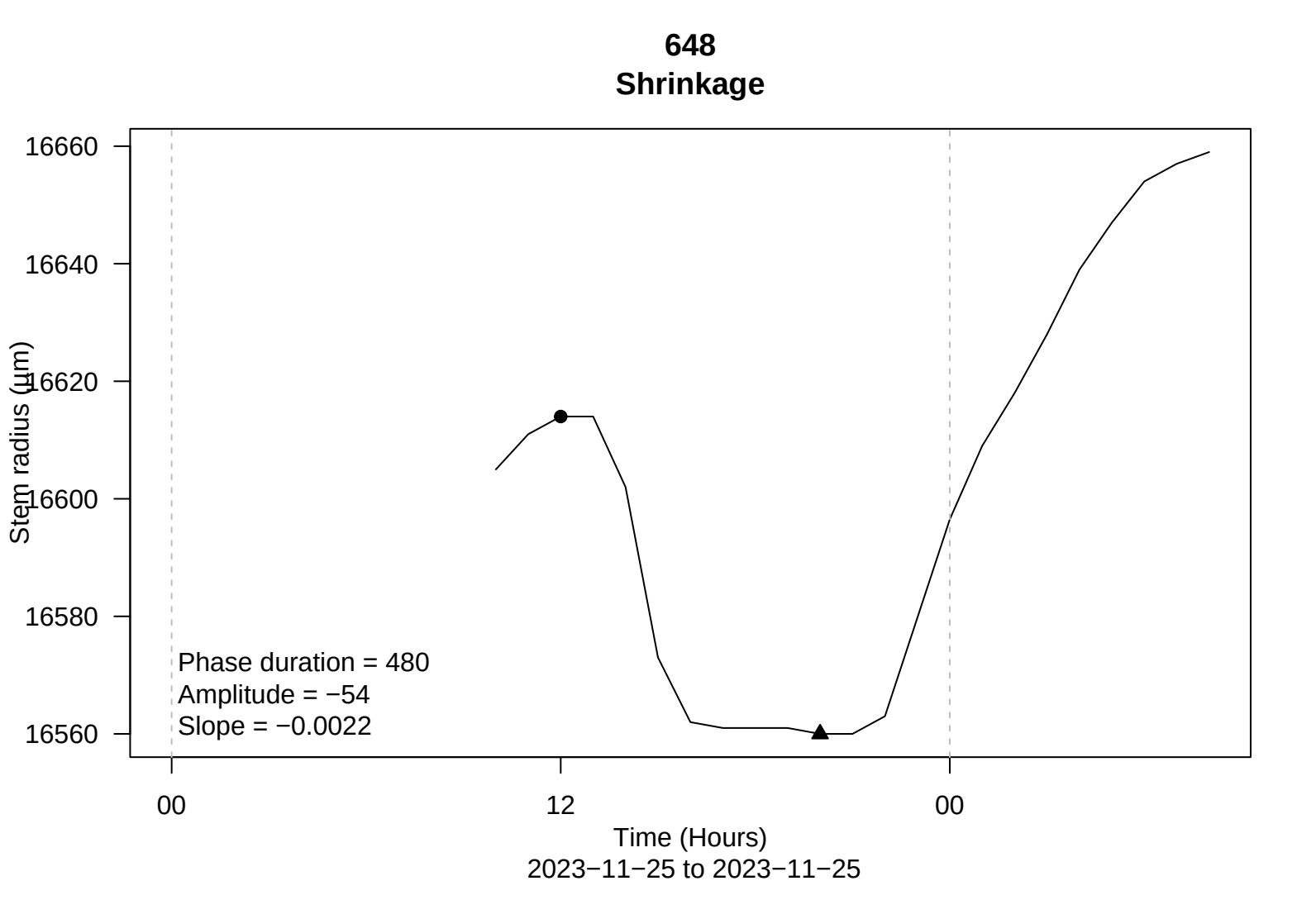

648
Shrinkage
16349.0
16348.5
16348.0
16347.5
16347.0
Stem radius (µm)
Phase duration = 420
Amplitude = −2
Slope = −1e−04
00
12
00
Time (Hours)
2023−11−21 to 2023−11−21

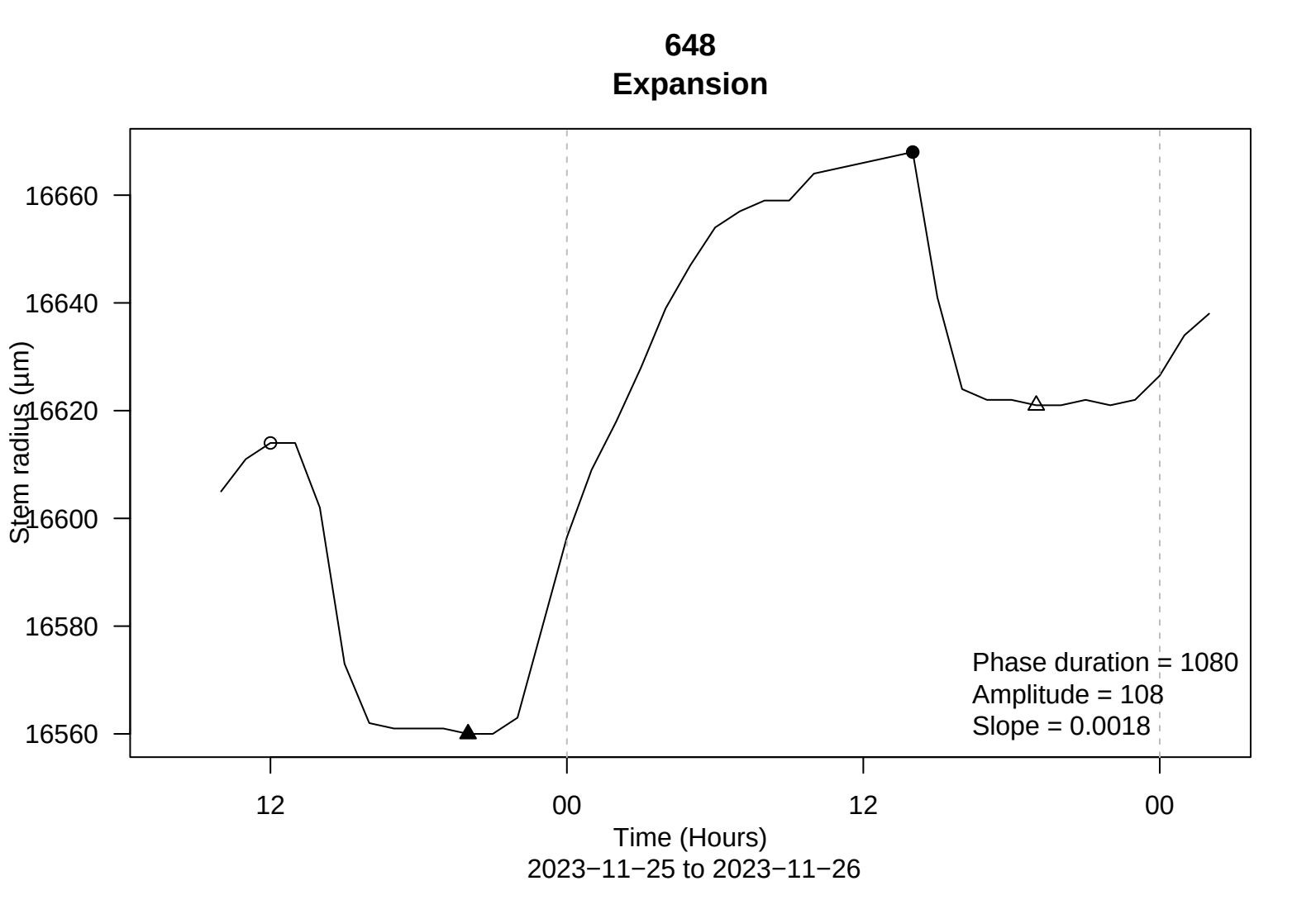

648
Shrinkage
16348.0
16347.5
16347.0
16346.5
16346.0
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = −1e−04
12
00
12
Time (Hours)
2023−11−21 to 2023−11−22

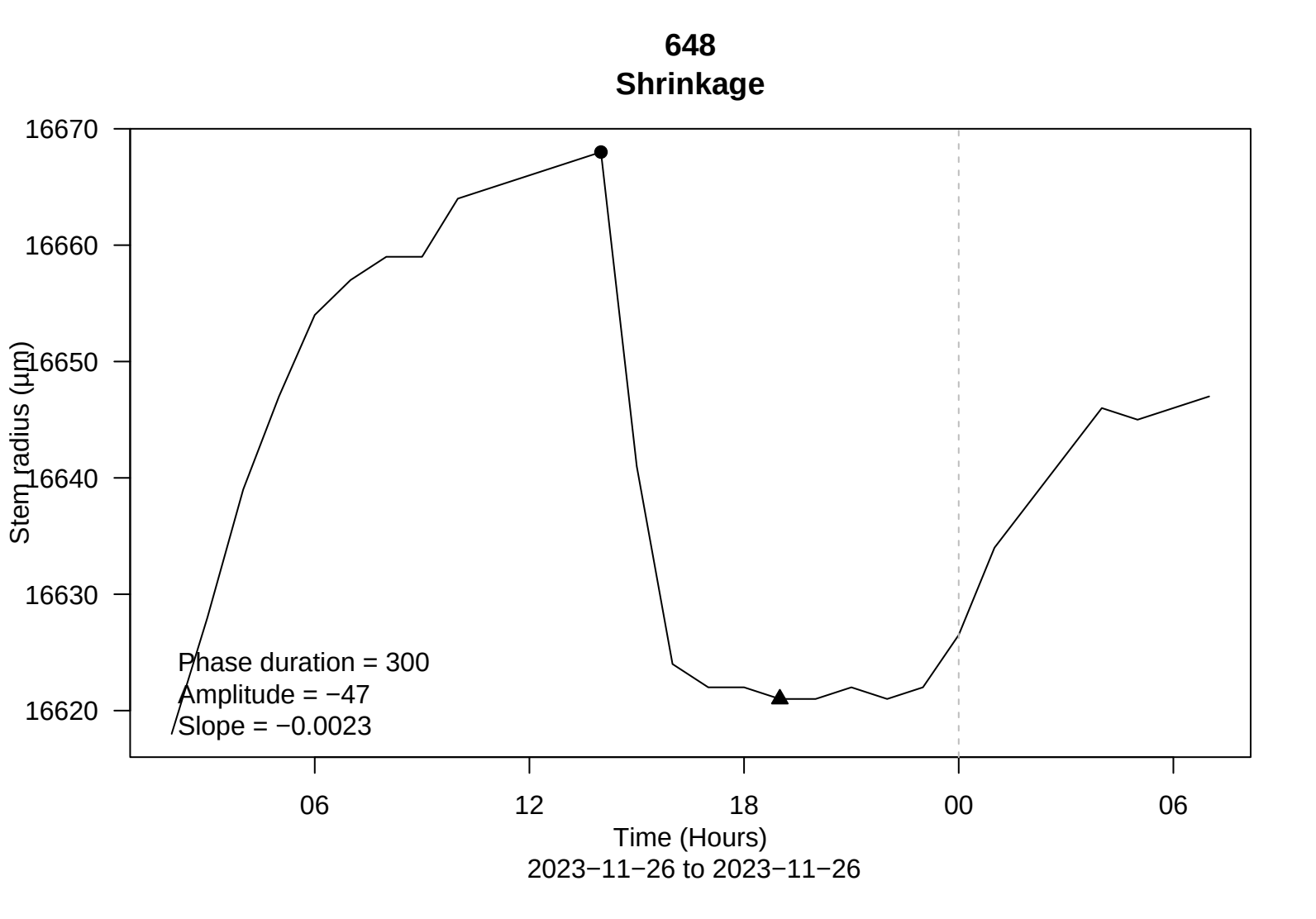

648
Expansion
16348.0
16347.5
16347.0
16346.5
16346.0
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−11−22 to 2023−11−22

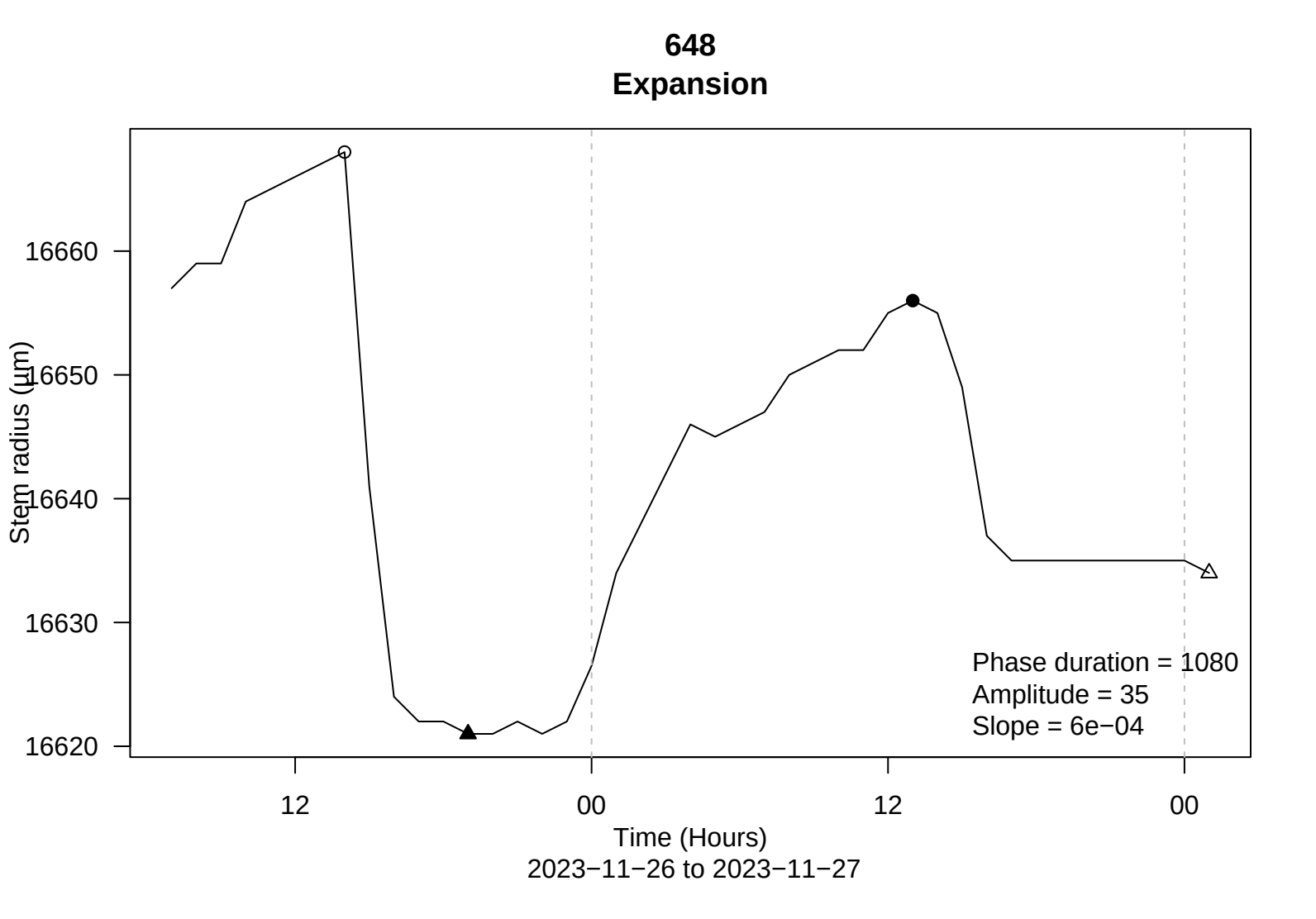

648
Shrinkage
16340
16320
16300
16280
16260
16240
16220
Stem radius (µm)
Phase duration = 1620
Amplitude = −57
Slope = −3e−04
12
00
12
00
Time (Hours)
2023−11−22 to 2023−11−23

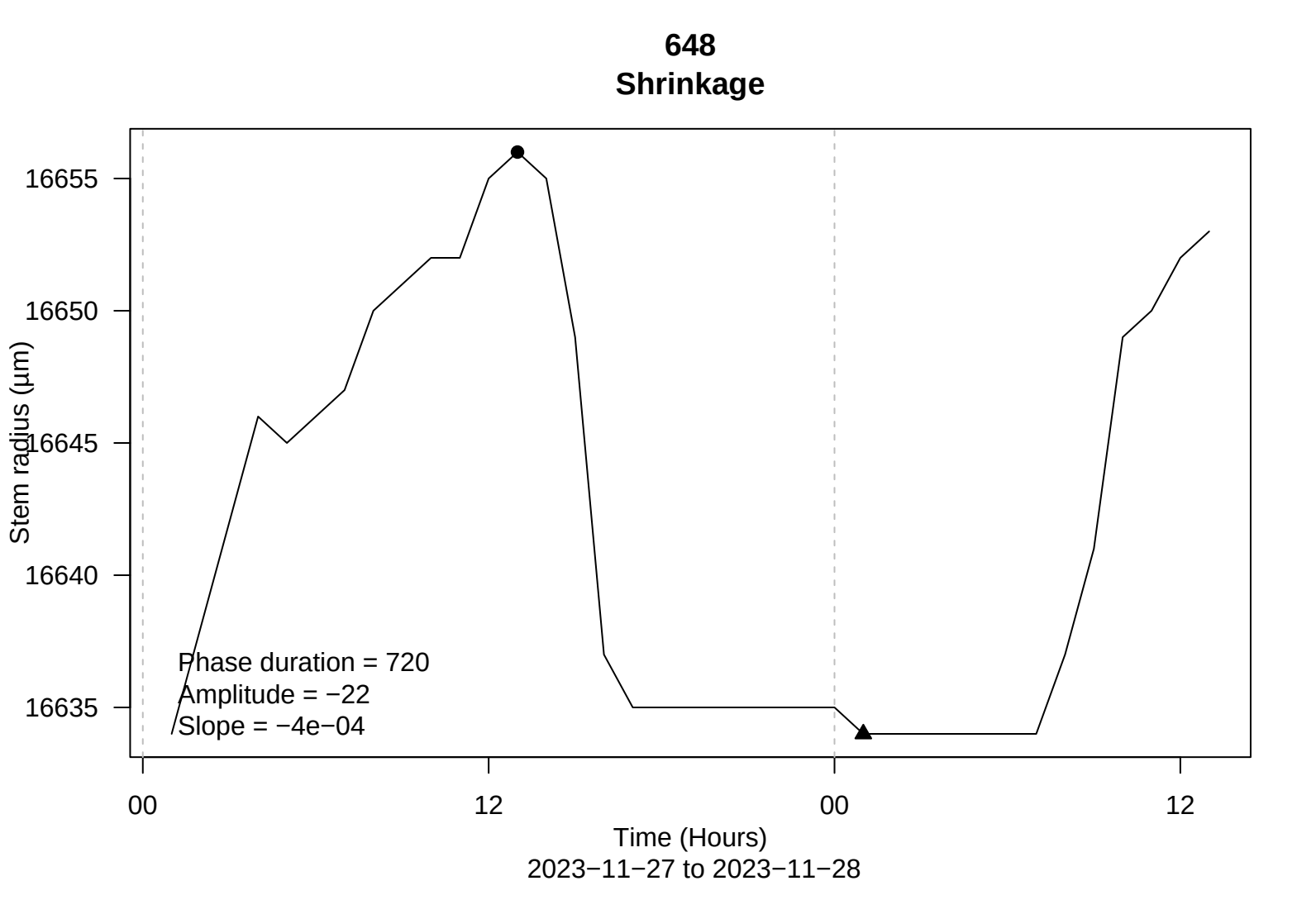

648
Shrinkage
16350
16300
16250
16200
Stem radius (µm)
Phase duration = 1080
Amplitude = −102
Slope = −0.0019
12
00
12
00
Time (Hours)
2023−11−23 to 2023−11−24

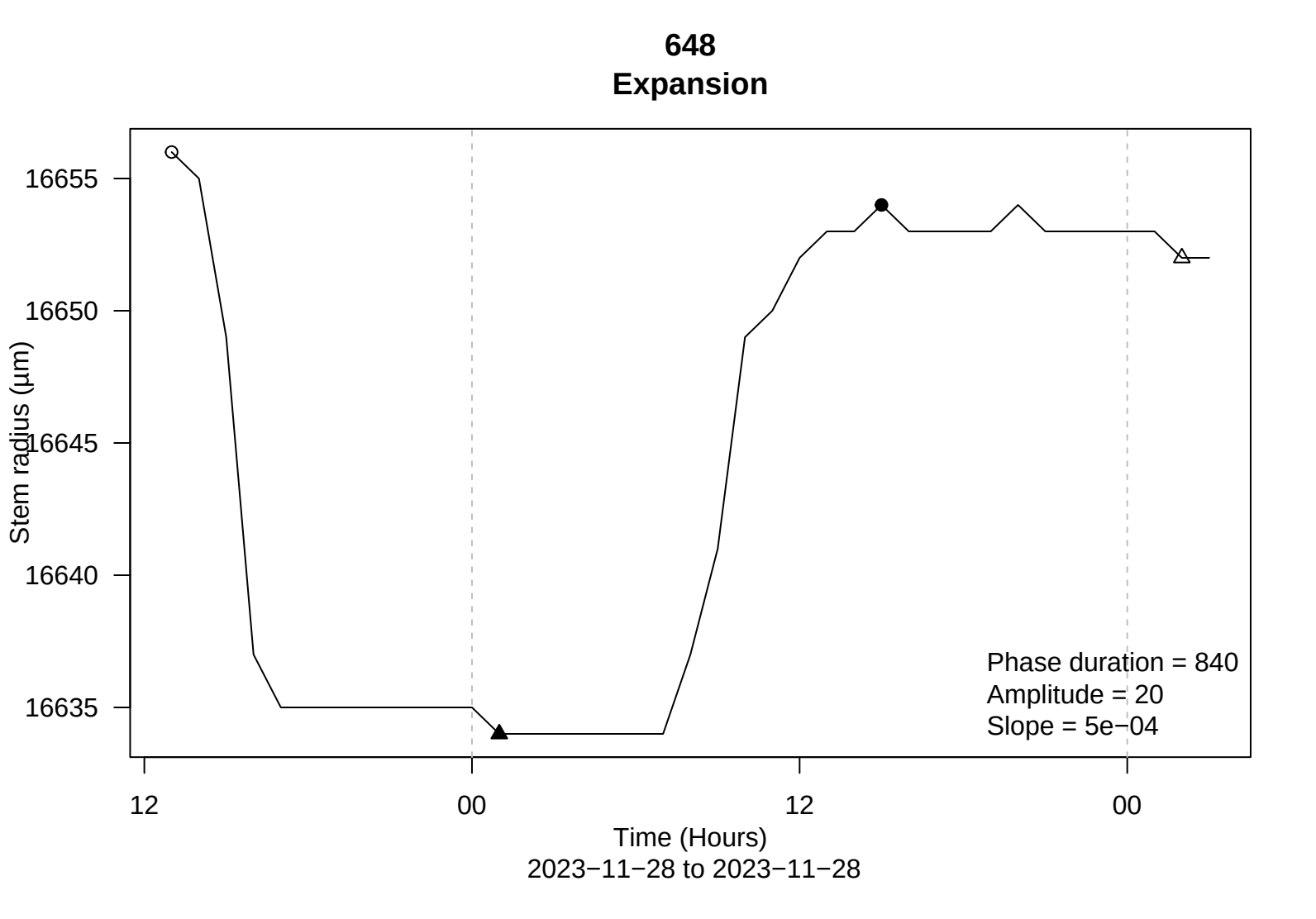

648
Shrinkage
16660
16640
16620
16600
16580
16560
Stem radius (µm)
Phase duration = 480
Amplitude = −54
Slope = −0.0022
00
12
00
Time (Hours)
2023−11−25 to 2023−11−25

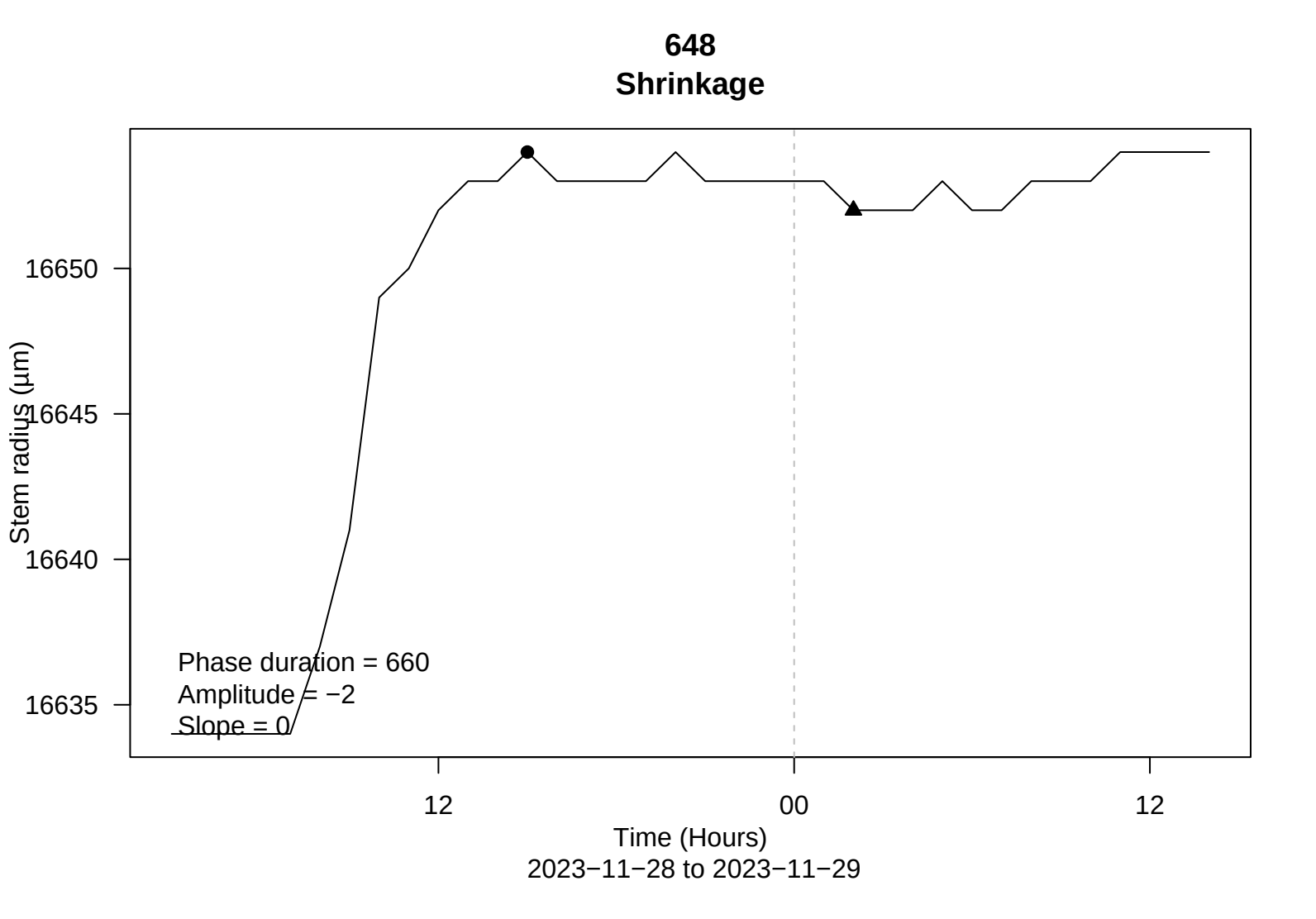

648
Expansion
16660
16640
16620
16600
16580
16560
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−25 to 2023−11−26
Phase duration = 1080
Amplitude = 108
Slope = 0.0018

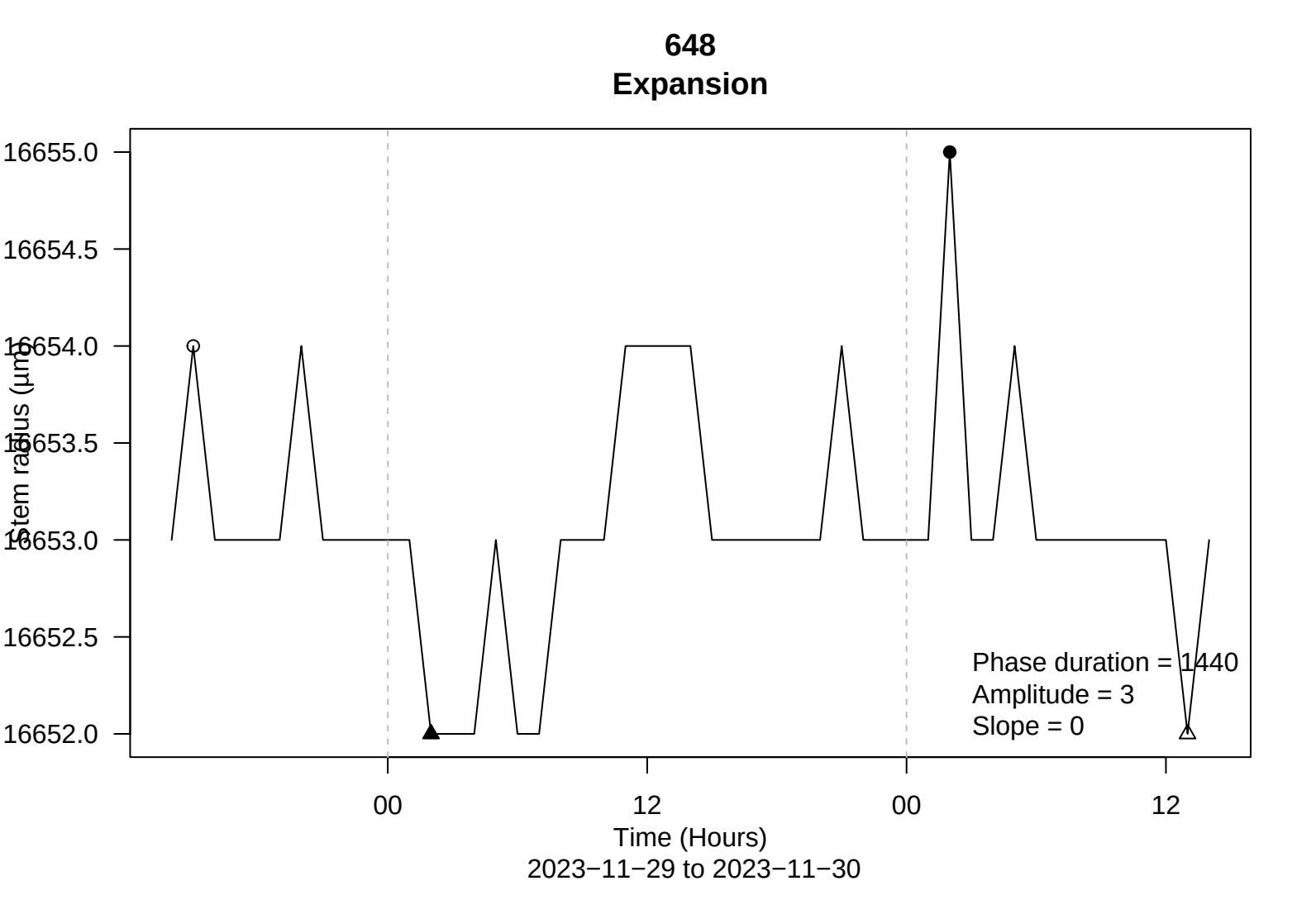

648
Shrinkage
16670
16660
16650
16640
16630
16620
Stem radius (µm)
Phase duration = 300
Amplitude = −47
Slope = −0.0023
06
12
18
00
06
Time (Hours)
2023−11−26 to 2023−11−26

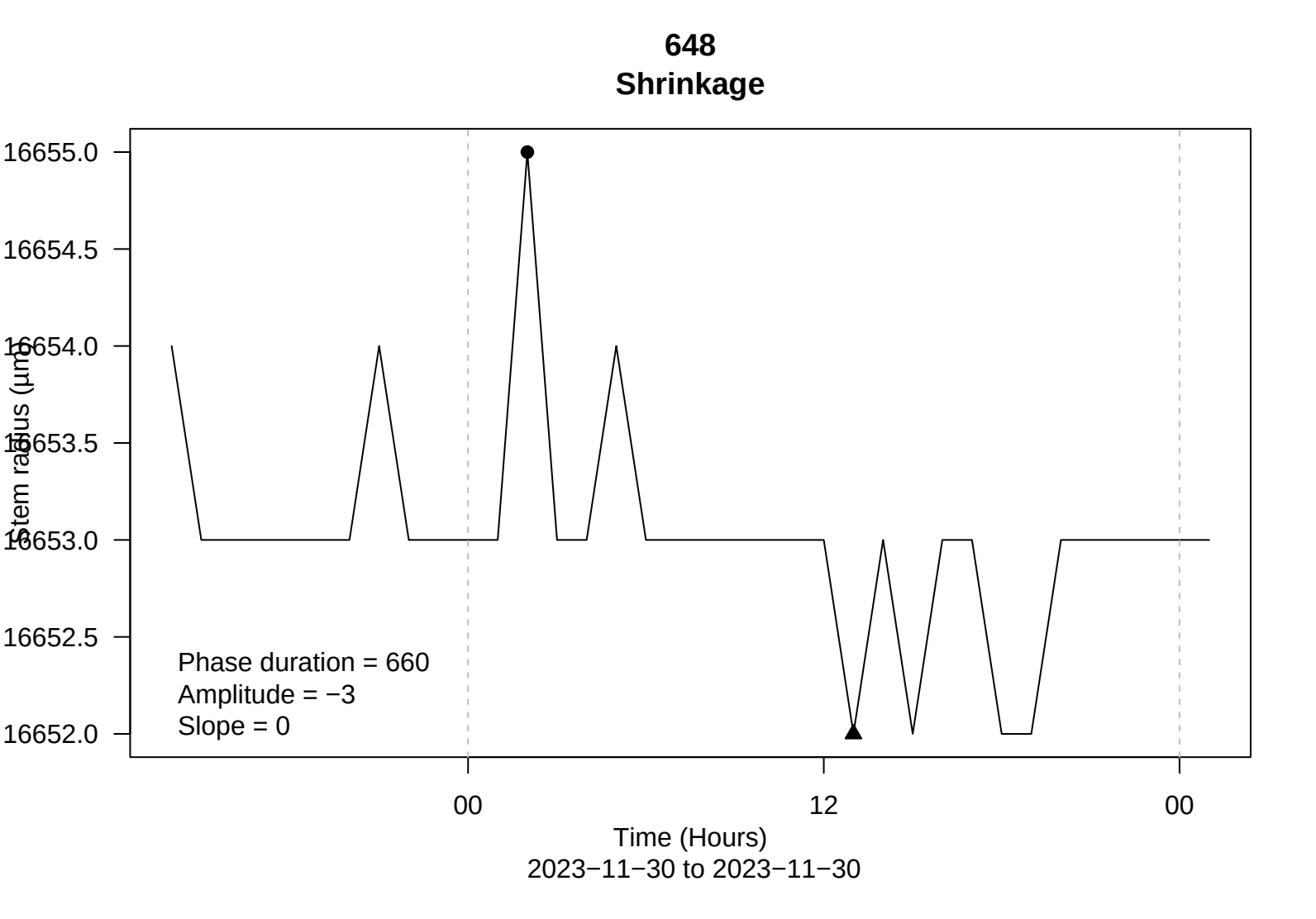

648
Expansion
16660
16650
16640
16630
16620
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−26 to 2023−11−27
Phase duration = 1080
Amplitude = 35
Slope = 6e−04

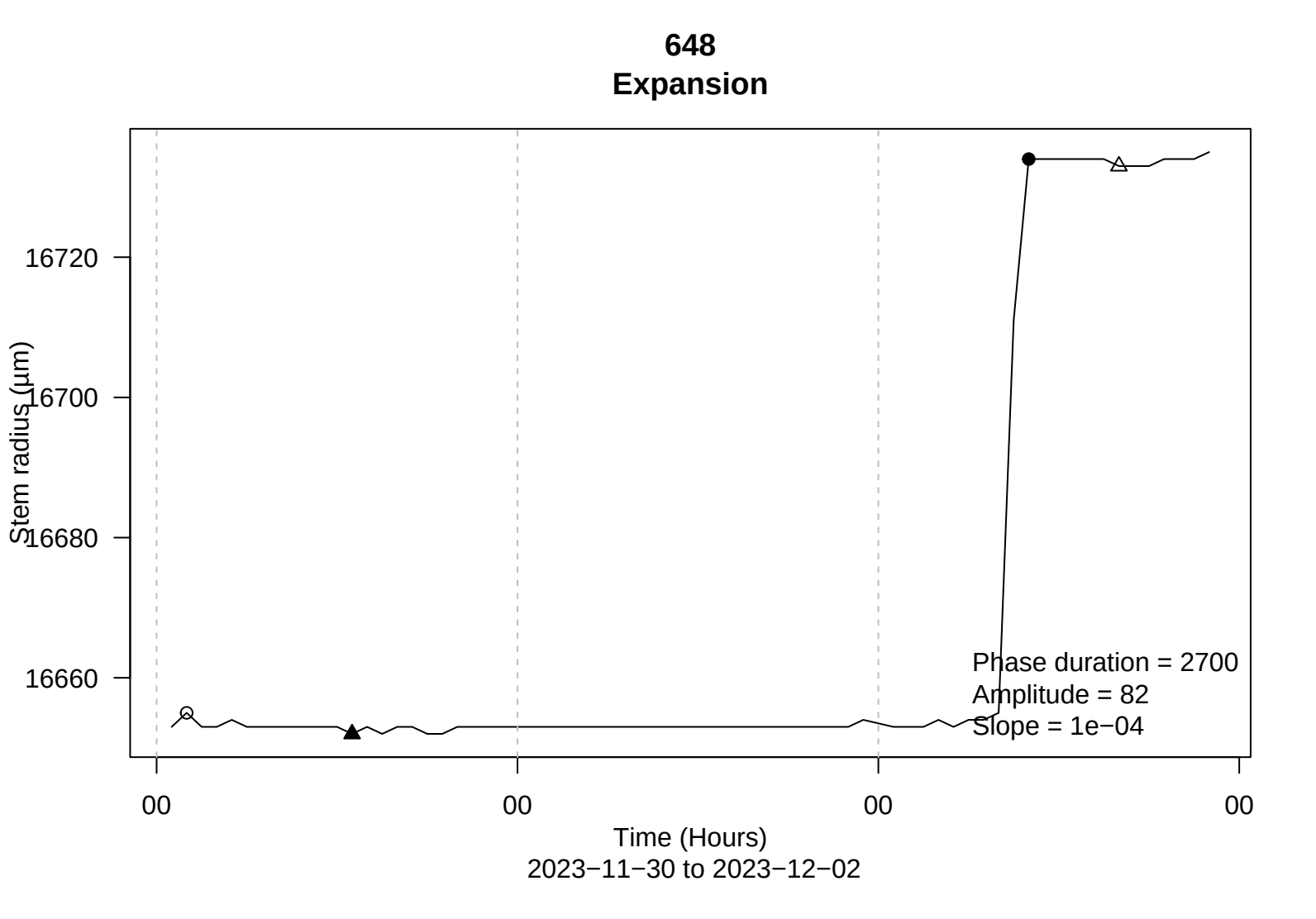

648
Shrinkage
16655
16650
16645
16640
16635
Stem radius (µm)
Phase duration = 720
Amplitude = −22
Slope = −4e−04
00
12
00
12
Time (Hours)
2023−11−27 to 2023−11−28

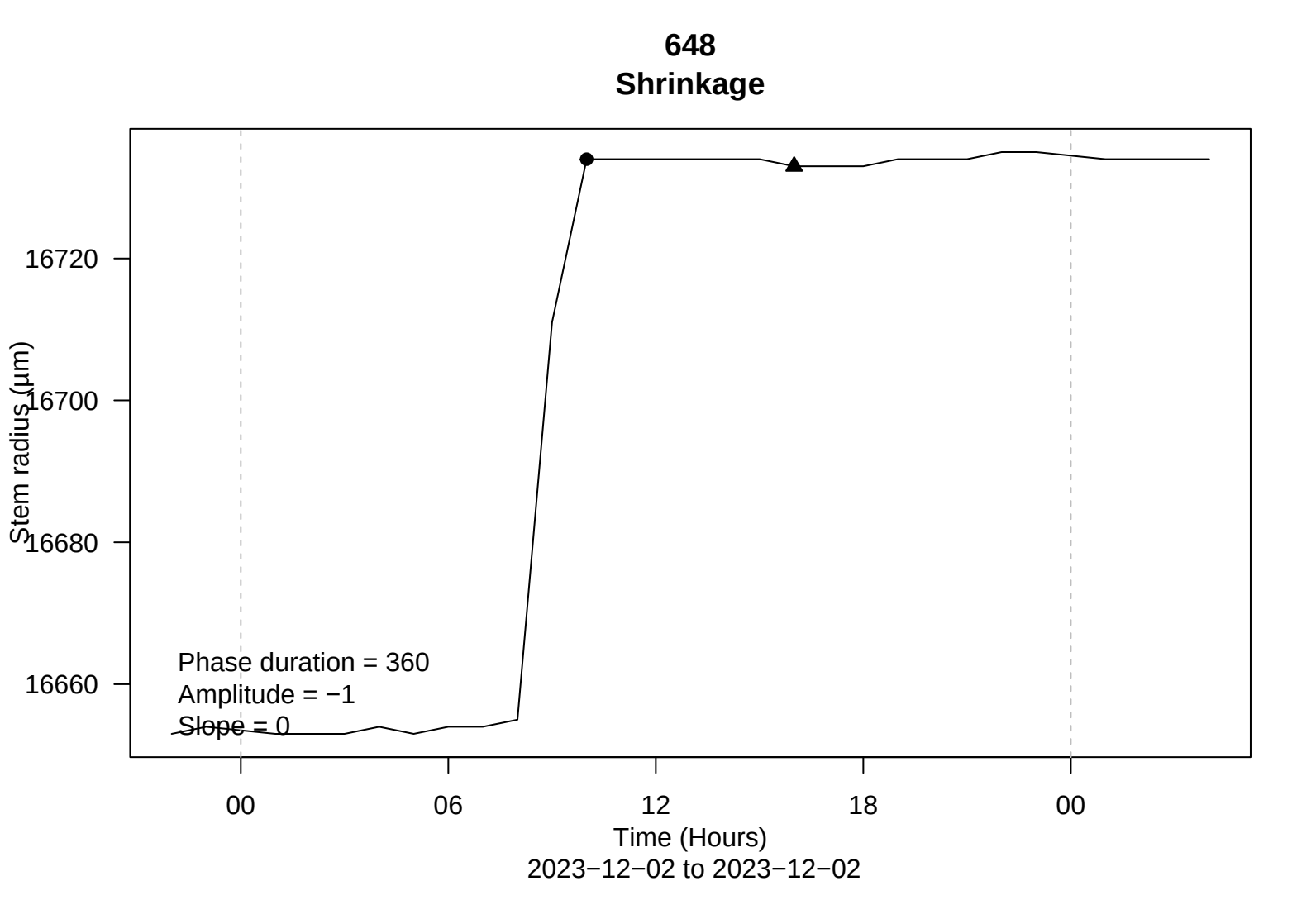

648
Expansion
16655
16650
16645
16640
16635
Stem radius (µm)
12
00
12
00
Time (Hours)
2023−11−28 to 2023−11−28
Phase duration = 840
Amplitude = 20
Slope = 5e−04

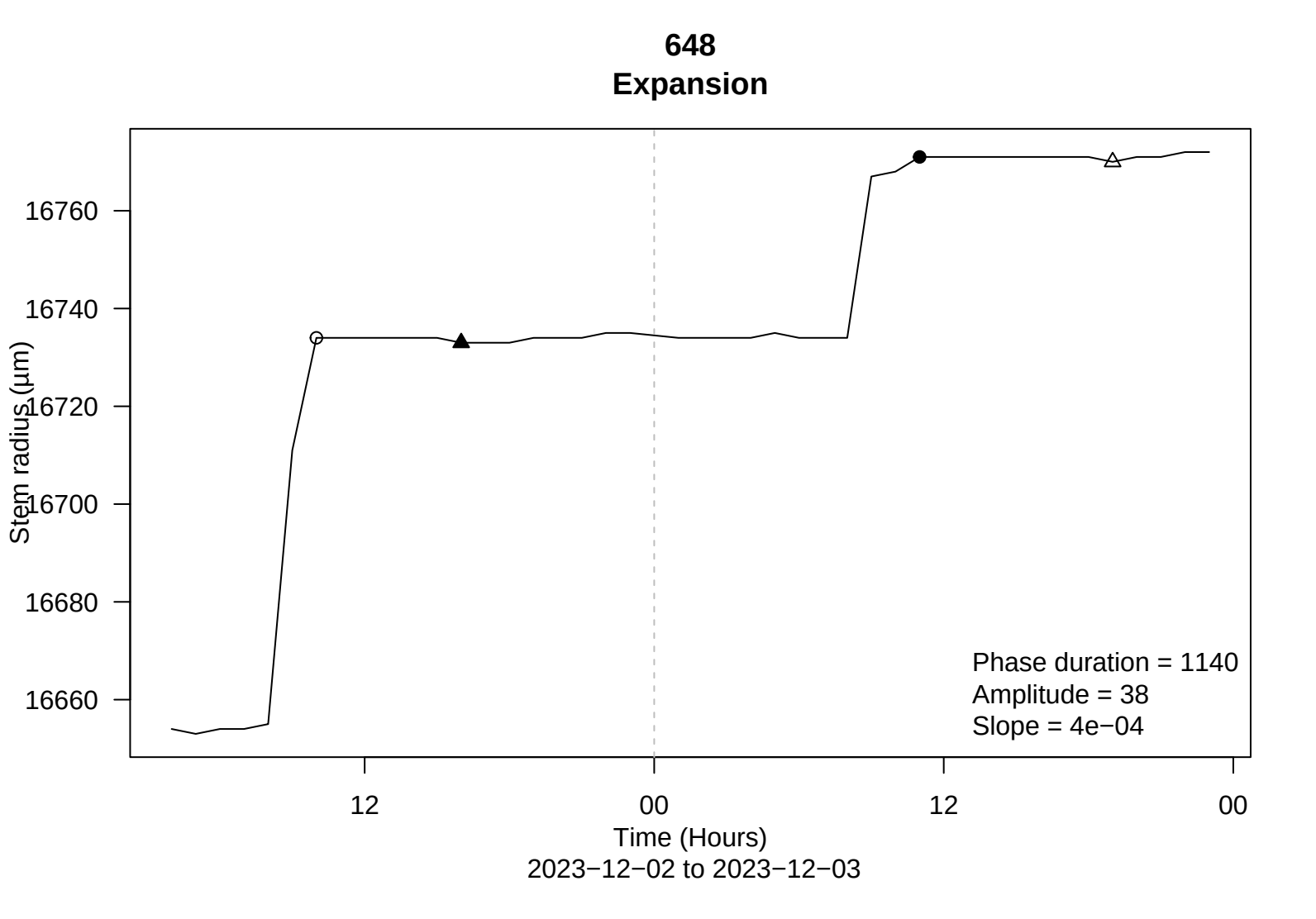

648
Shrinkage
16650
16645
16640
16635
Stem radius (µm)
Phase duration = 660
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−11−28 to 2023−11−29

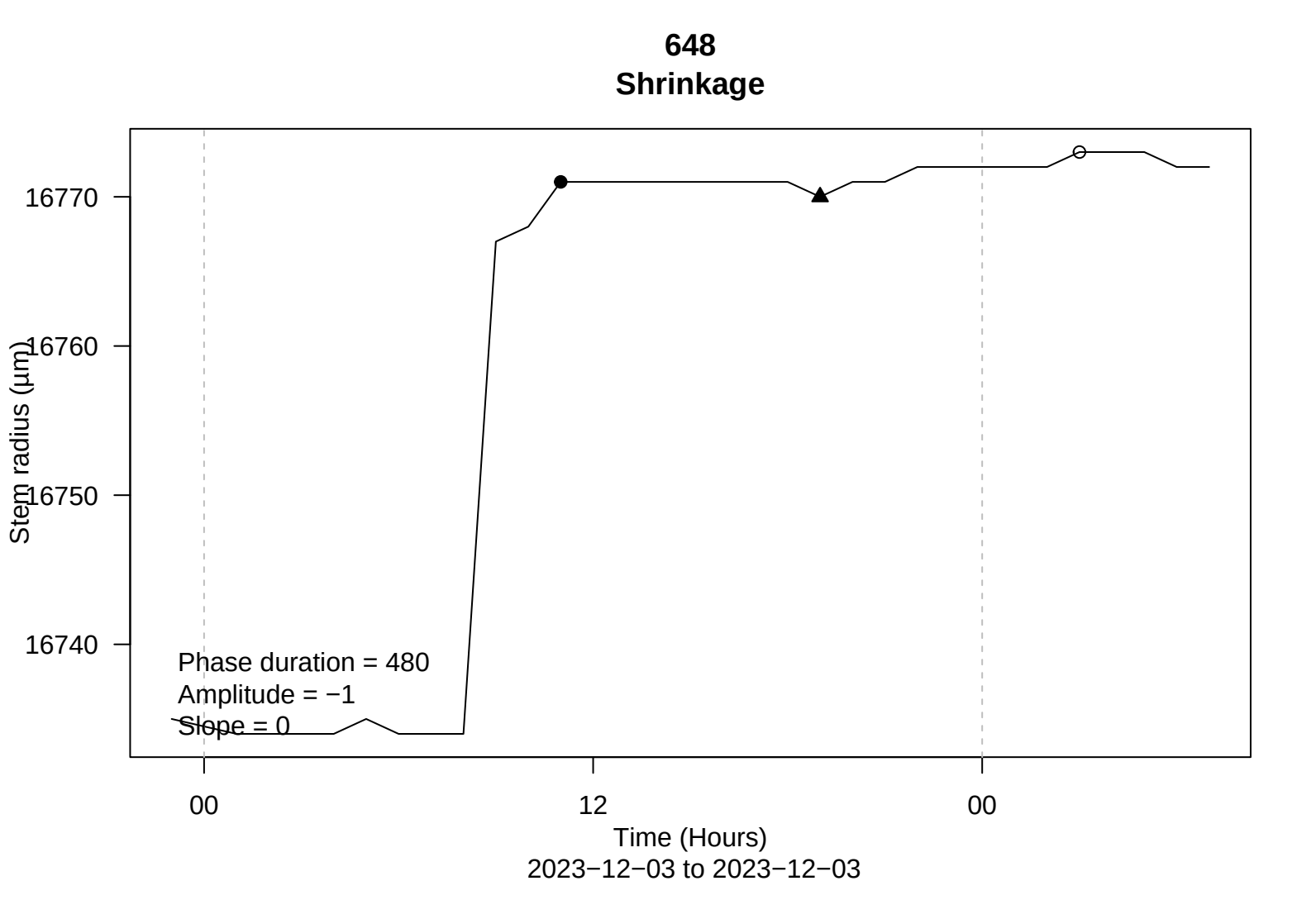

648
Expansion
16655.0
16654.5
16654.0
16653.5
16653.0
16652.5
16652.0
Stem radius (µm)
Phase duration = 1440
Amplitude = 3
Slope = 0
00
12
00
12
Time (Hours)
2023−11−29 to 2023−11−30

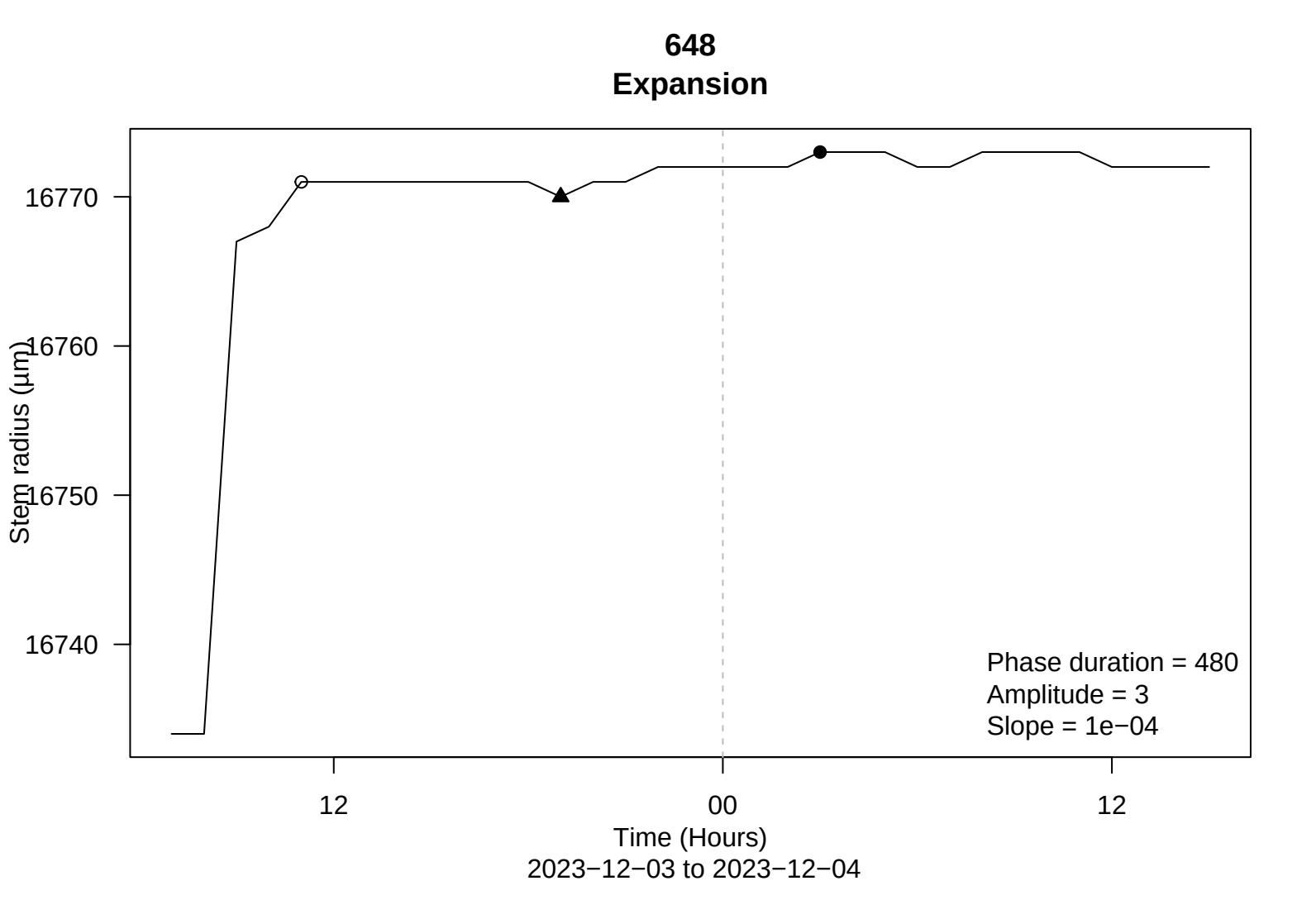

648
Shrinkage
16655.0
16654.5
16654.0
16653.5
16653.0
16652.5
16652.0
Stem radius (µm)
Phase duration = 660
Amplitude = −3
Slope = 0
00
12
00
Time (Hours)
2023−11−30 to 2023−11−30

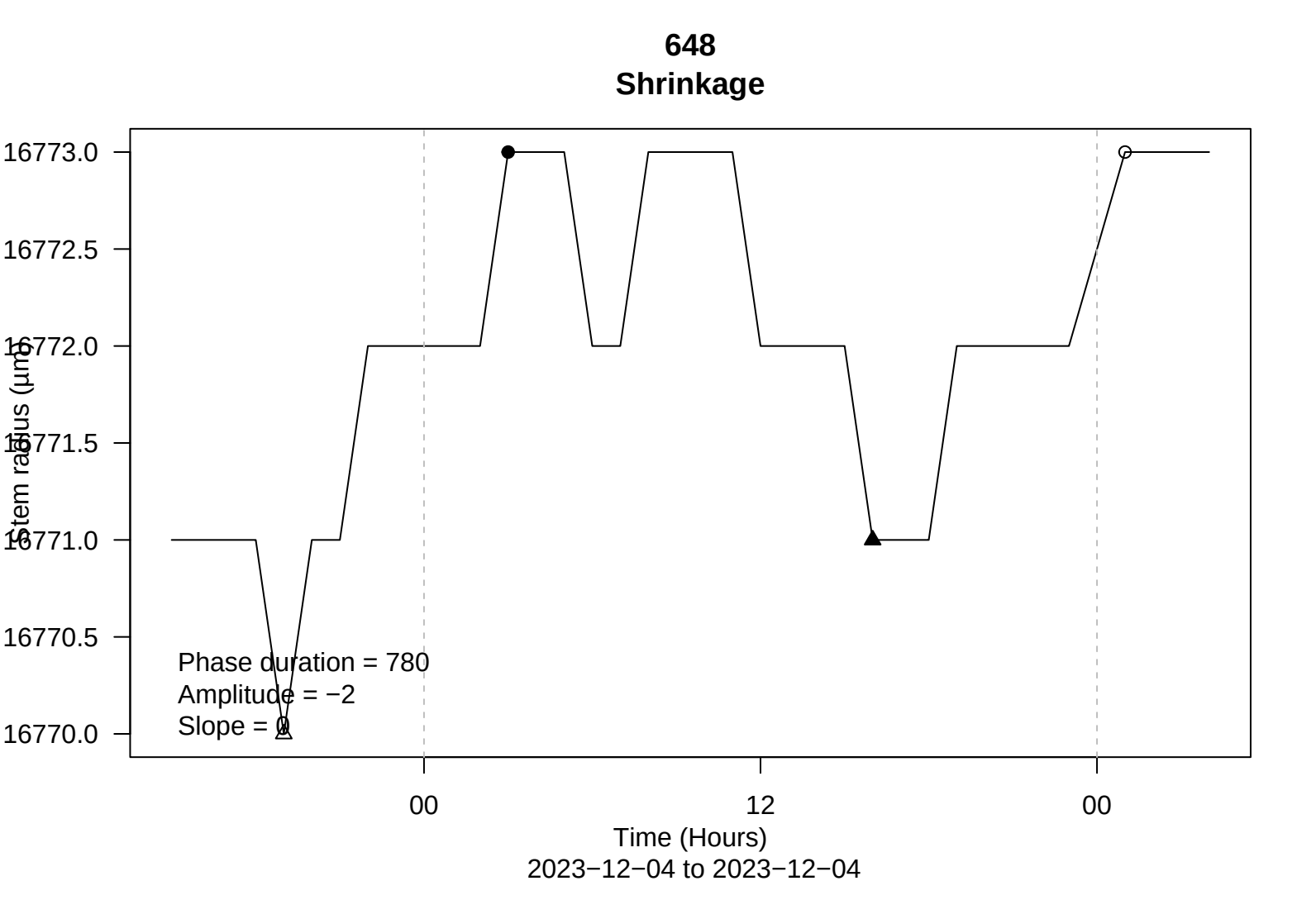

648
Expansion
16720
16700
16680
16660
Stem radius (µm)
Phase duration = 2700
Amplitude = 82
Slope = 1e−04
00
00
00
00
Time (Hours)
2023−11−30 to 2023−12−02

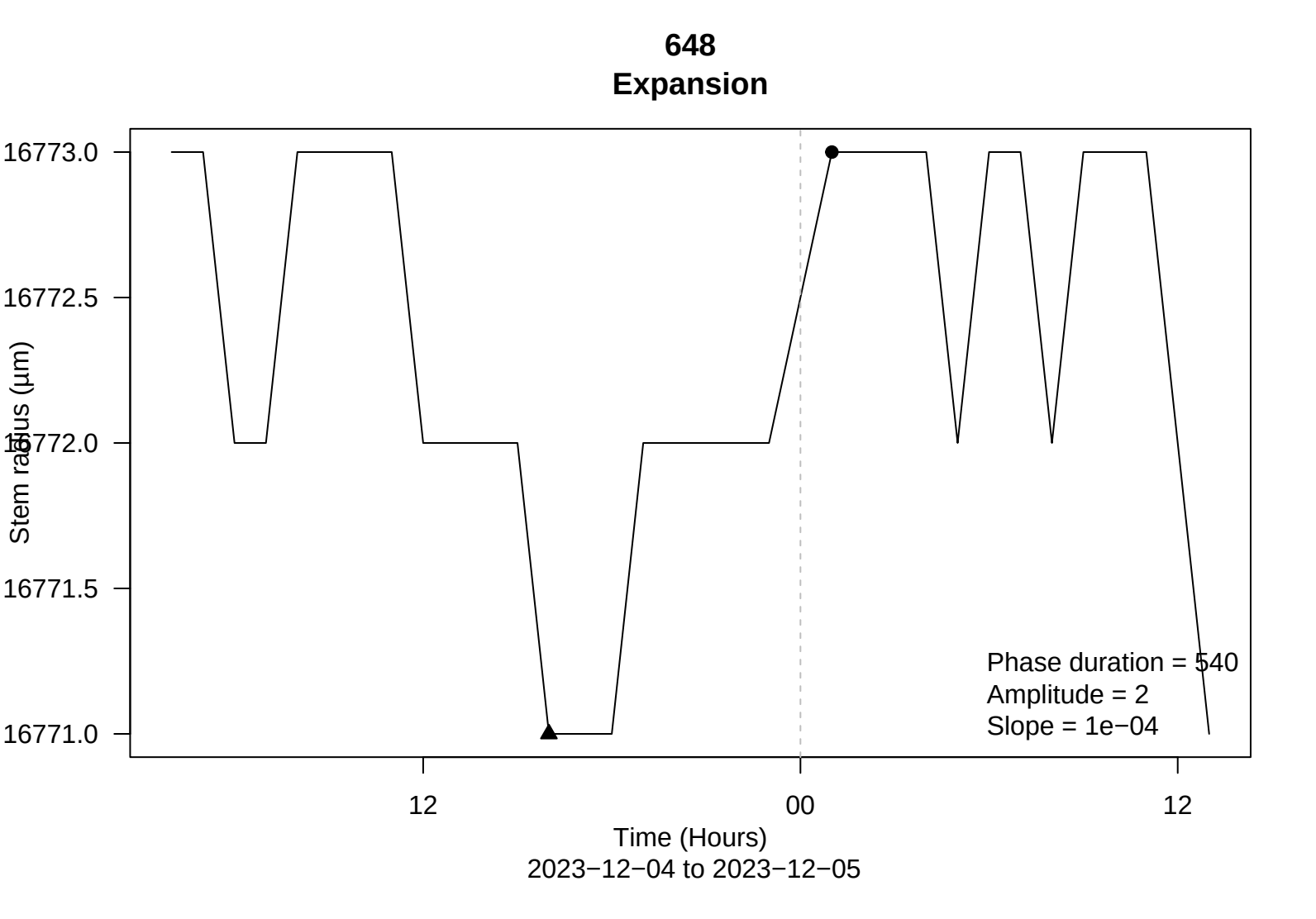

648
Shrinkage
16720
16700
16680
16660
Stem radius (µm)
Phase duration = 360
Amplitude = −1
Slope = 0
00
06
12
18
00
Time (Hours)
2023−12−02 to 2023−12−02

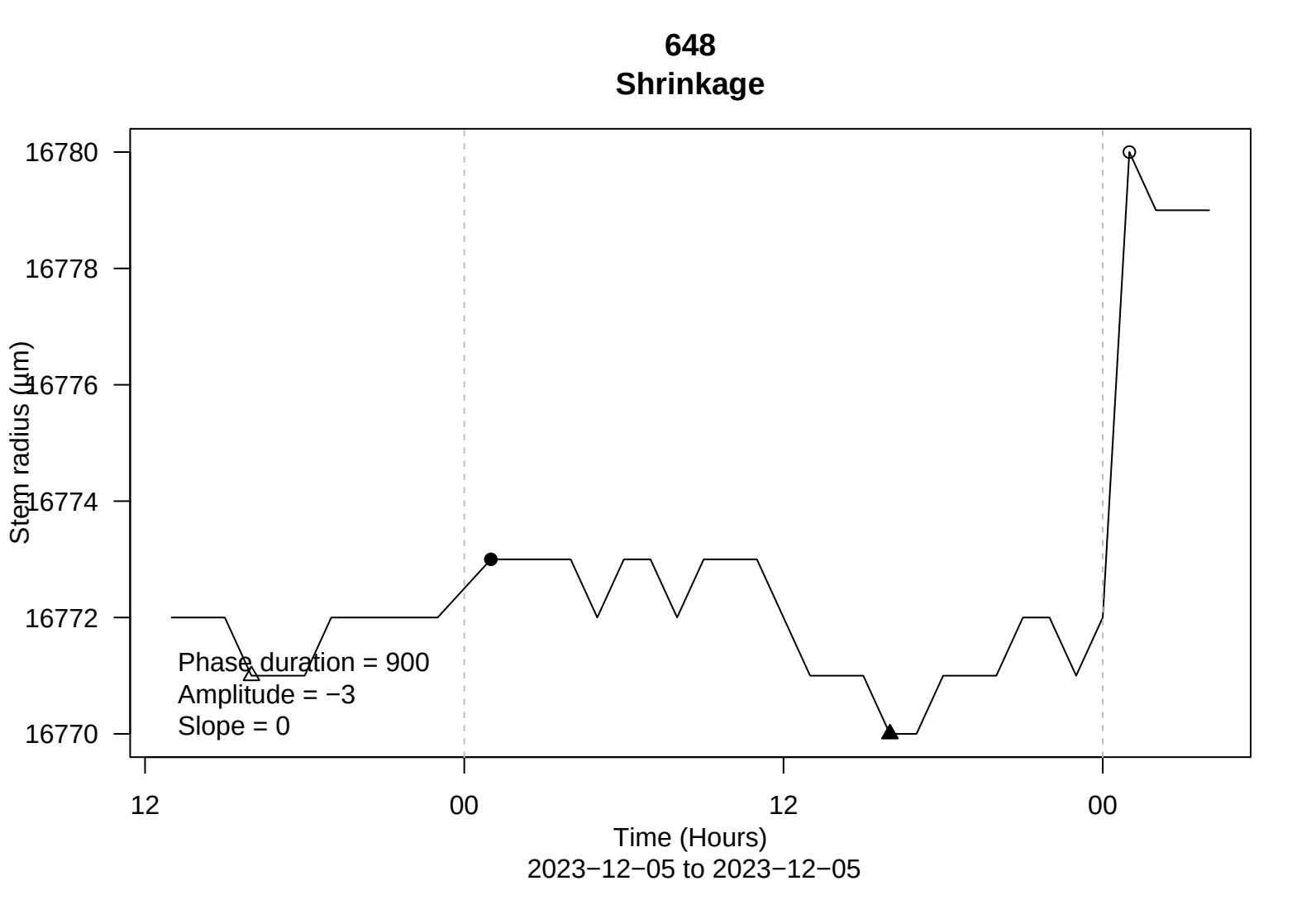

648
Expansion
16760
16740
16720
16700
16680
16660
Stem radius (µm)
Phase duration = 1140
Amplitude = 38
Slope = 4e−04
12
00
12
00
Time (Hours)
2023−12−02 to 2023−12−03

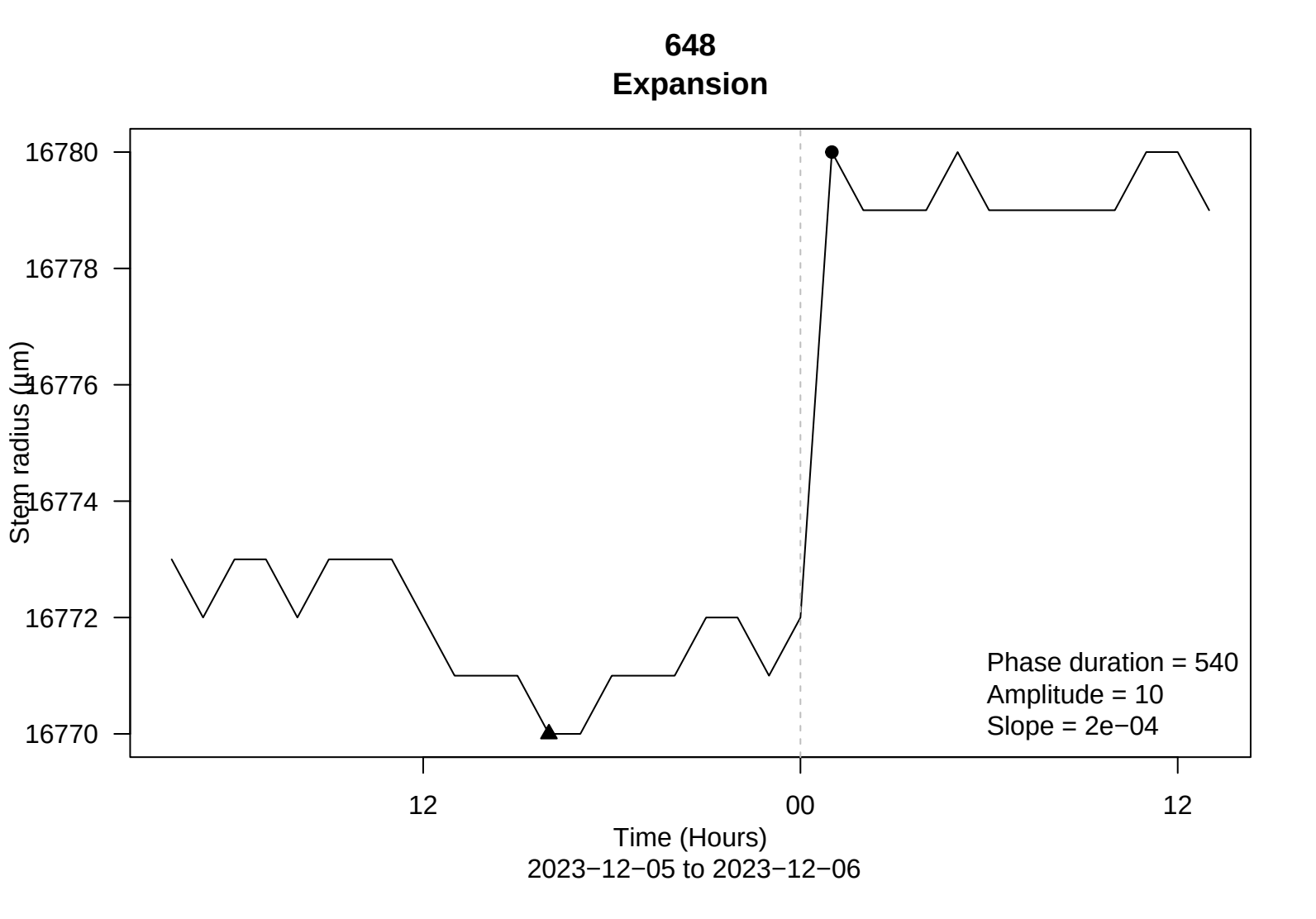

648
Shrinkage
16770
16760
16750
16740
Stem radius (µm)
Phase duration = 480
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2023−12−03 to 2023−12−03

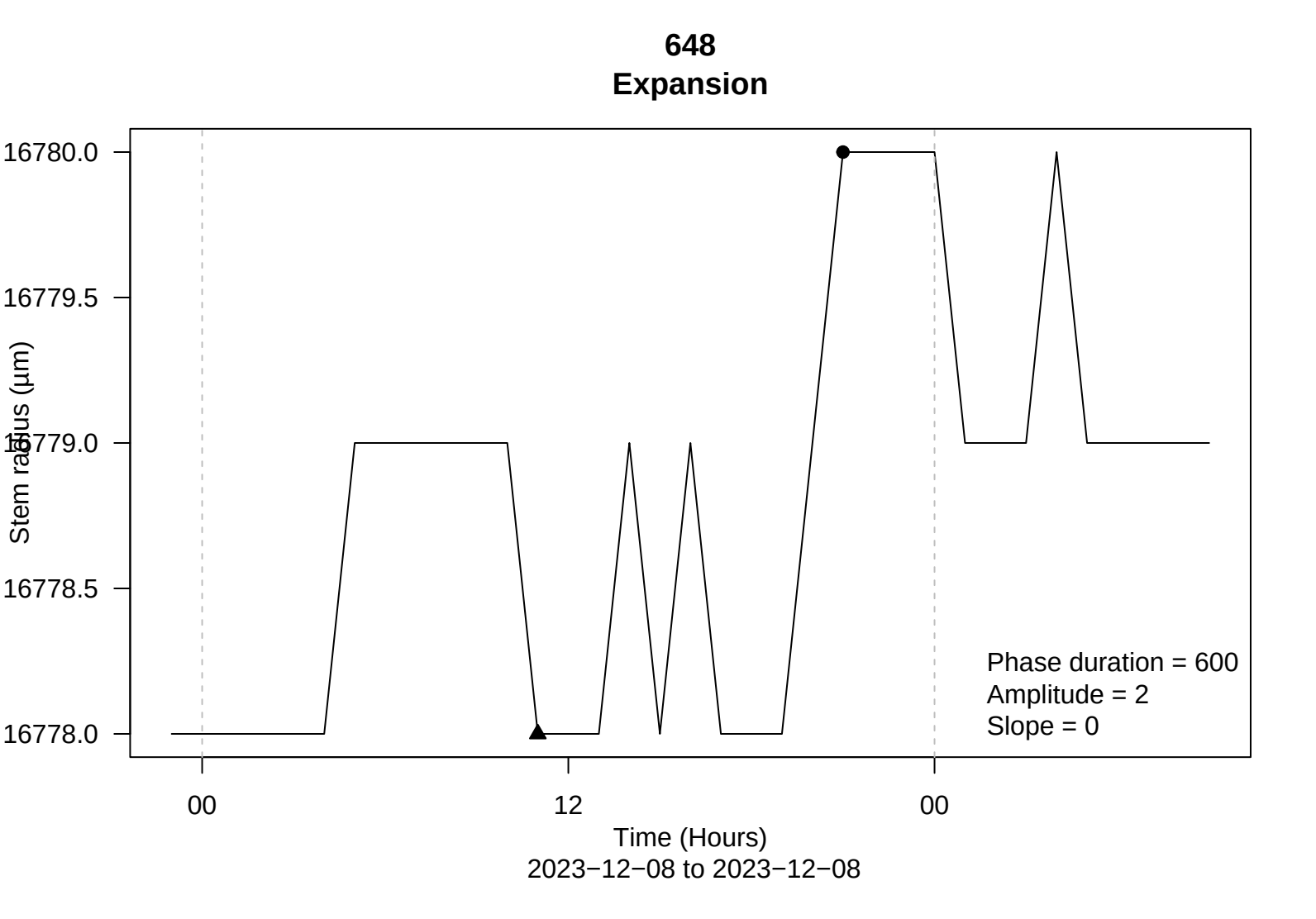

648
Expansion
16770
16760
16750
16740
Stem radius (µm)
Phase duration = 480
Amplitude = 3
Slope = 1e−04
12
00
12
Time (Hours)
2023−12−03 to 2023−12−04

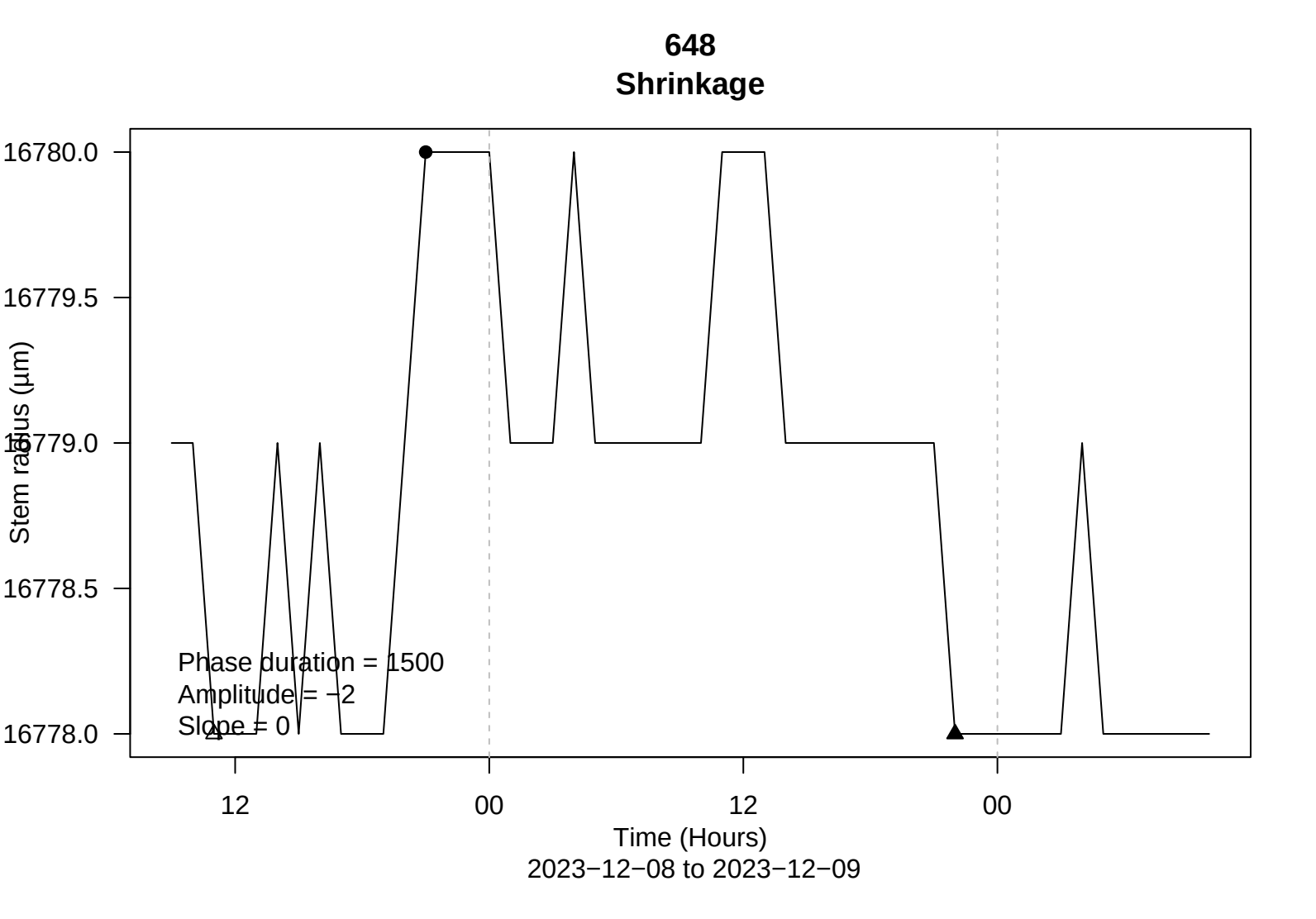

648
Shrinkage
16773.0
16772.5
16772.0
16771.5
16771.0
16770.5
16770.0
Stem radius (µm)
Phase duration = 780
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−12−04 to 2023−12−04

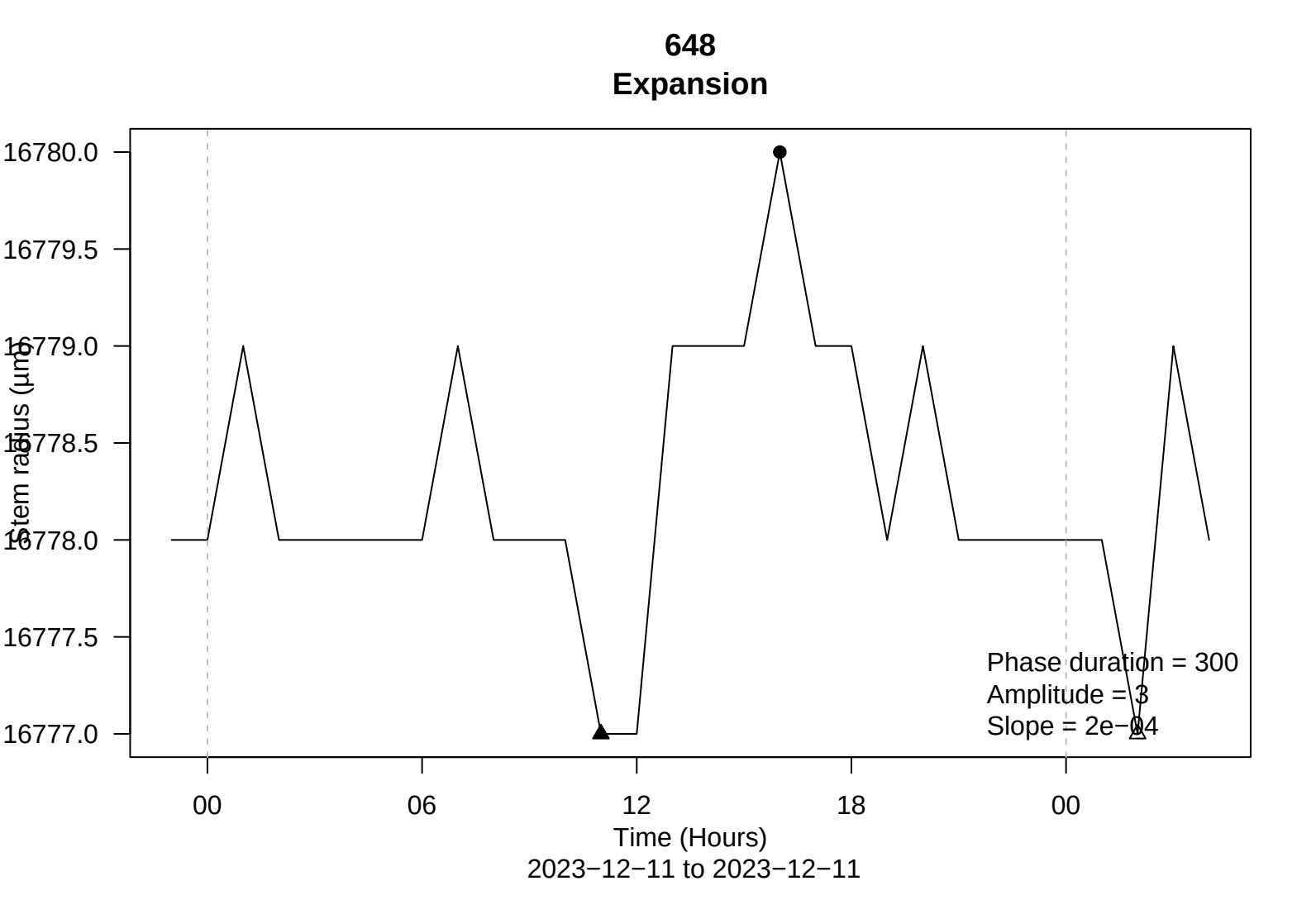

648
Expansion
16773.0
16772.5
16772.0
16771.5
16771.0
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 1e−04
12
00
12
Time (Hours)
2023−12−04 to 2023−12−05

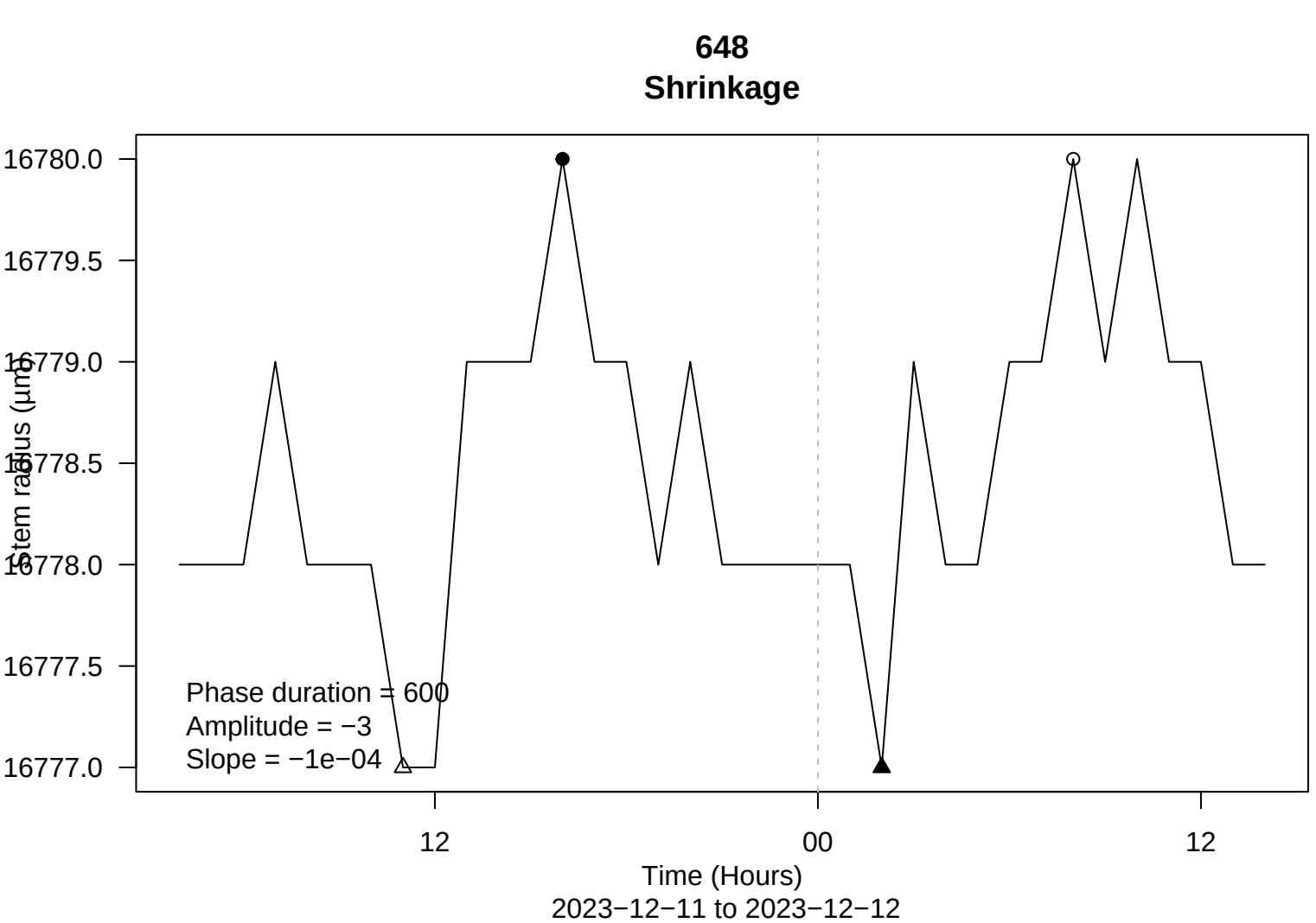

648
Shrinkage
16780
16778
16776
16774
16772
16770
Stem radius (µm)
Phase duration = 900
Amplitude = −3
Slope = 0
12
00
12
00
Time (Hours)
2023−12−05 to 2023−12−05

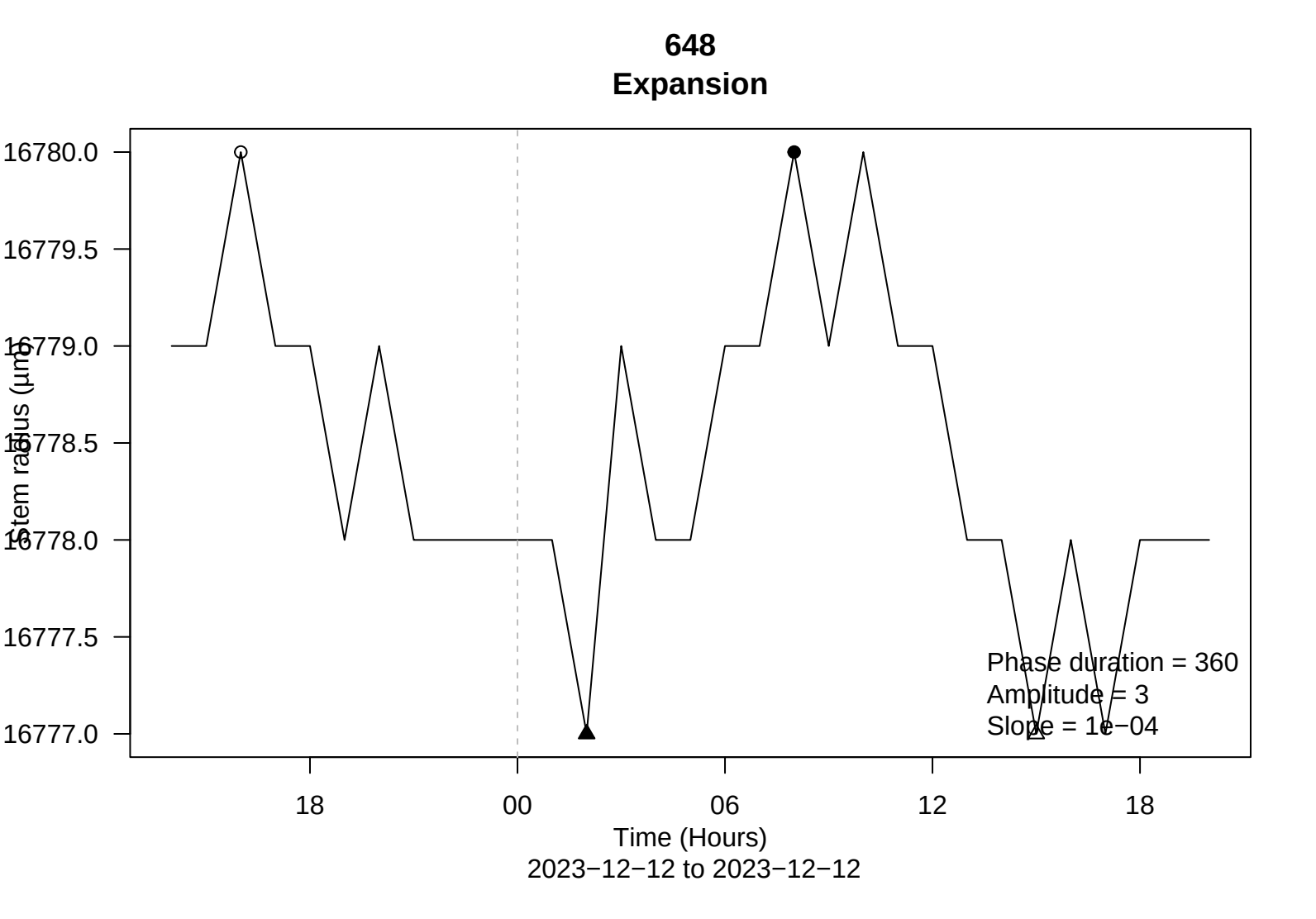

648
Expansion
16780
16778
16776
16774
16772
16770
Stem radius (µm)
12
00
12
Time (Hours)
2023−12−05 to 2023−12−06
Phase duration = 540
Amplitude = 10
Slope = 2e−04

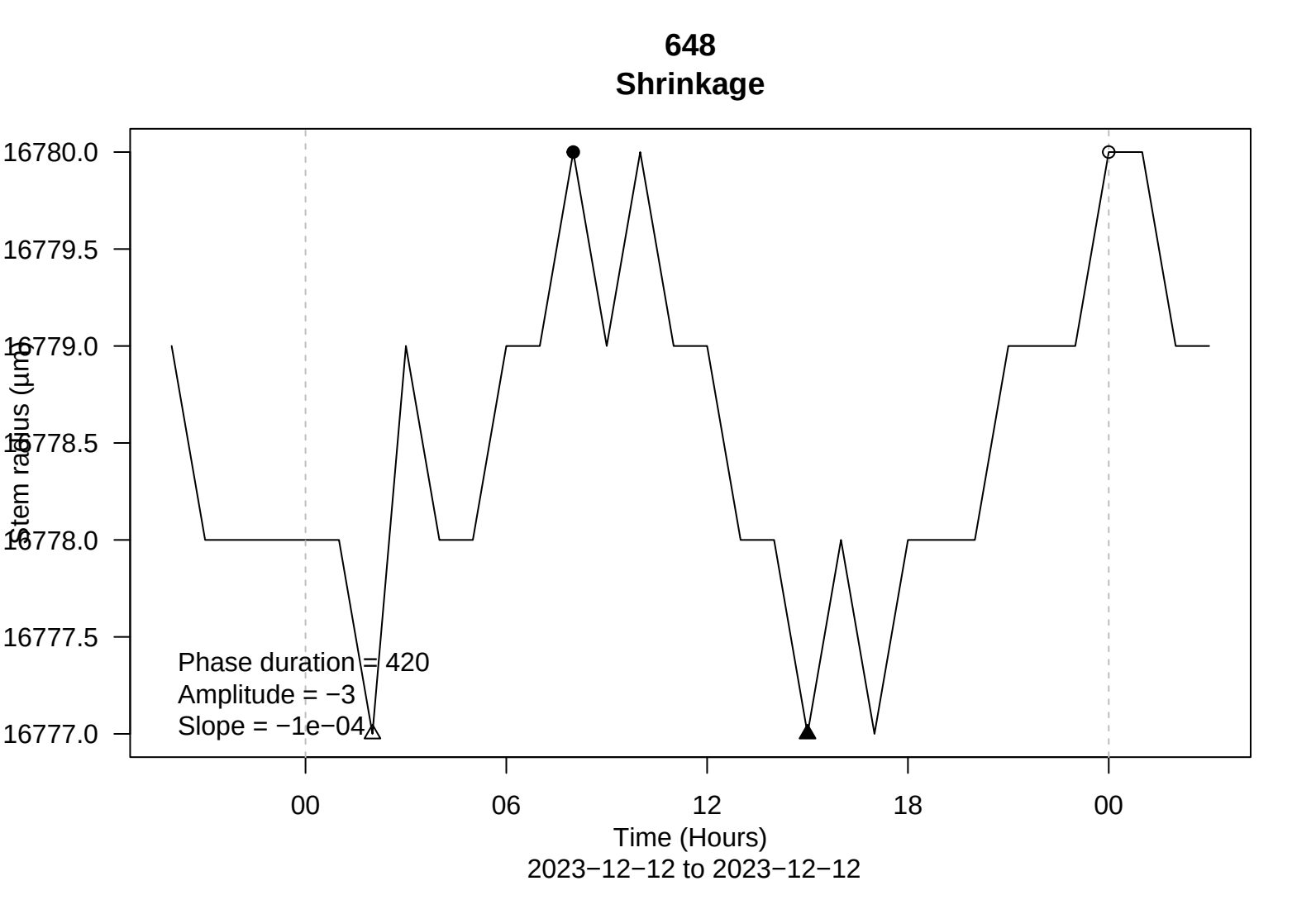

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
Phase duration = 600
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−12−08 to 2023−12−08

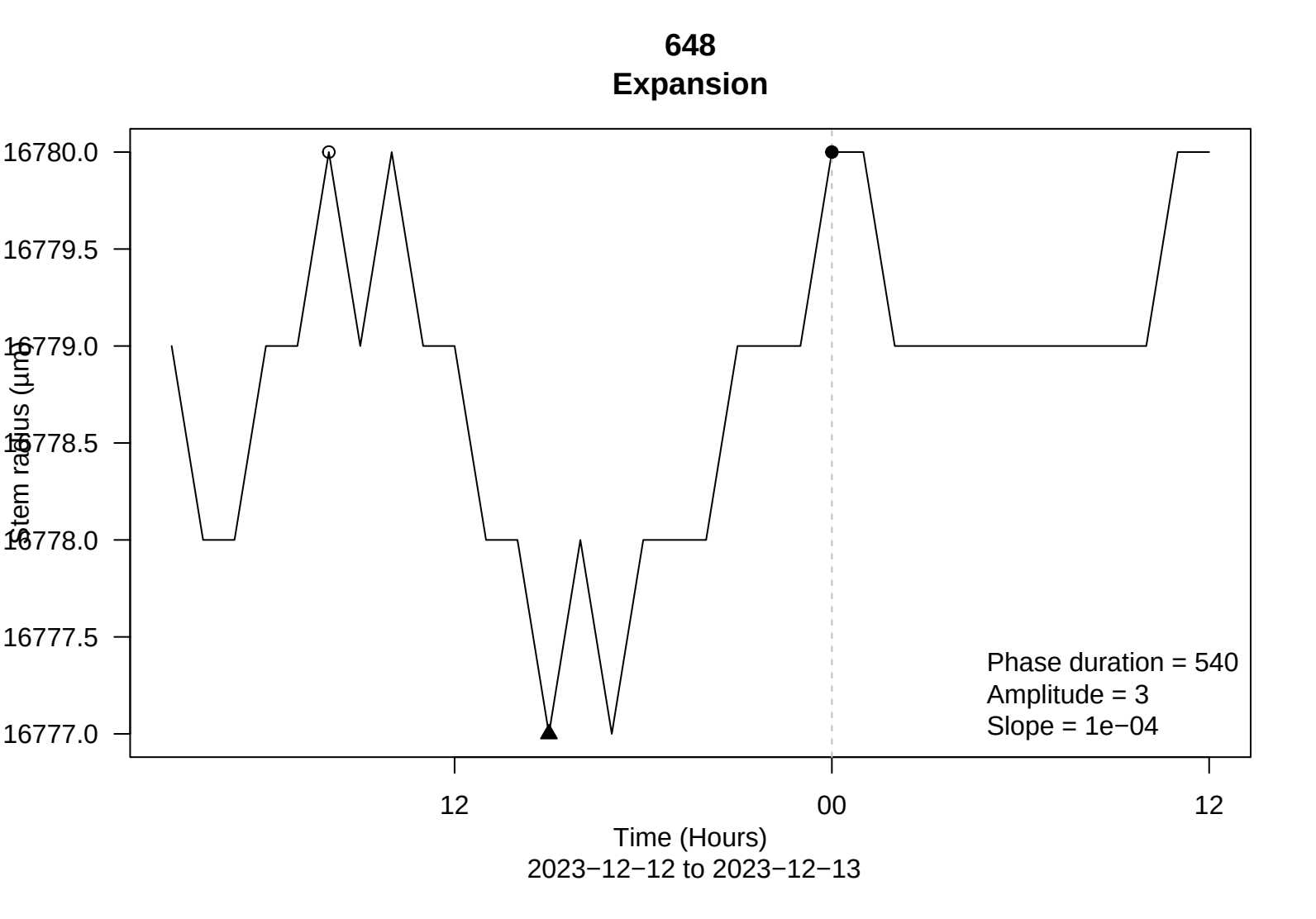

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
Phase duration = 1500
Amplitude = −2
Slope = 0
12
00
12
00
Time (Hours)
2023−12−08 to 2023−12−09

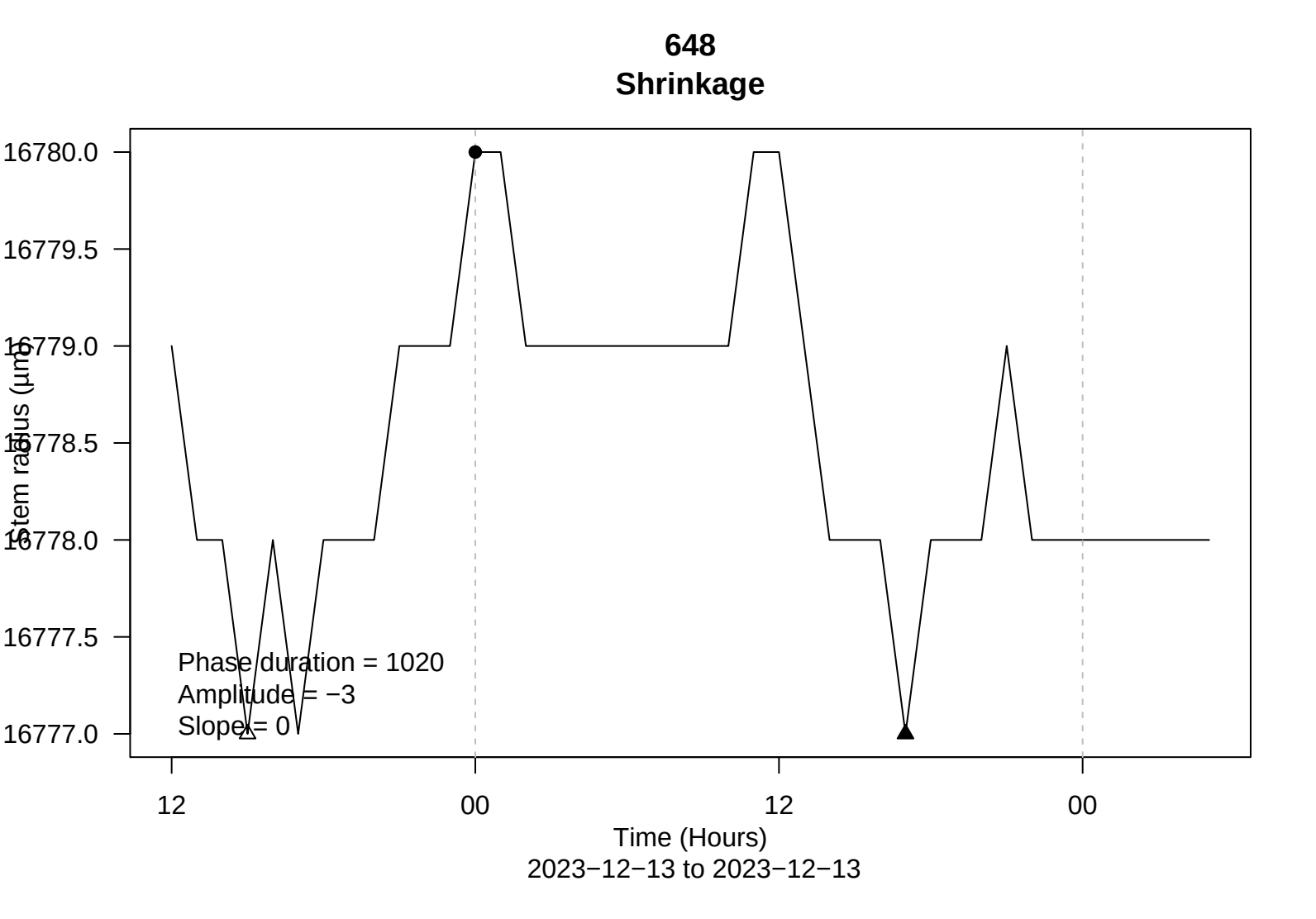

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 300
Amplitude = 3
Slope = 2e−04
00
06
12
18
00
Time (Hours)
2023−12−11 to 2023−12−11

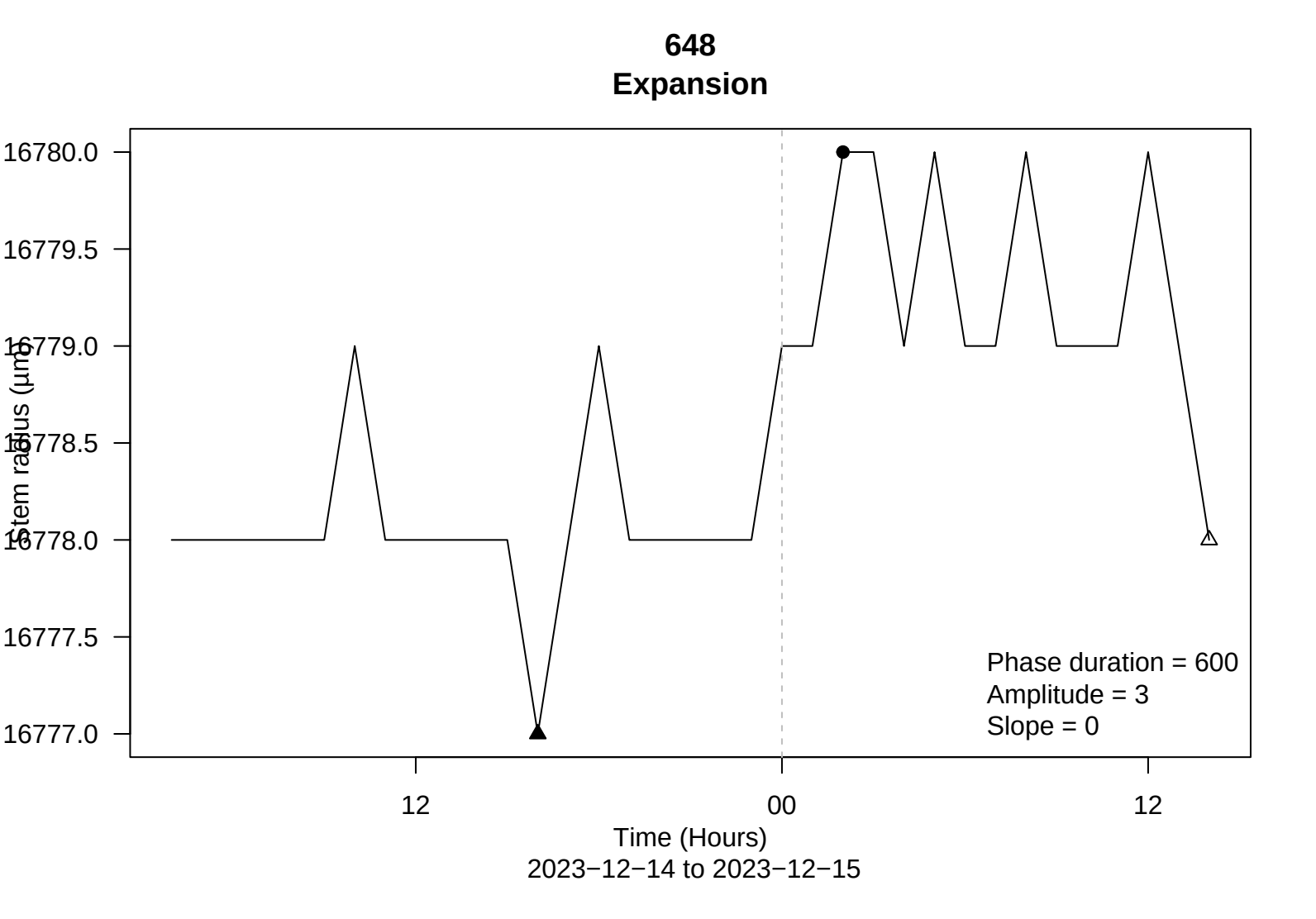

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 600
Amplitude = −3
Slope = −1e−04
12
00
12
Time (Hours)
2023−12−11 to 2023−12−12

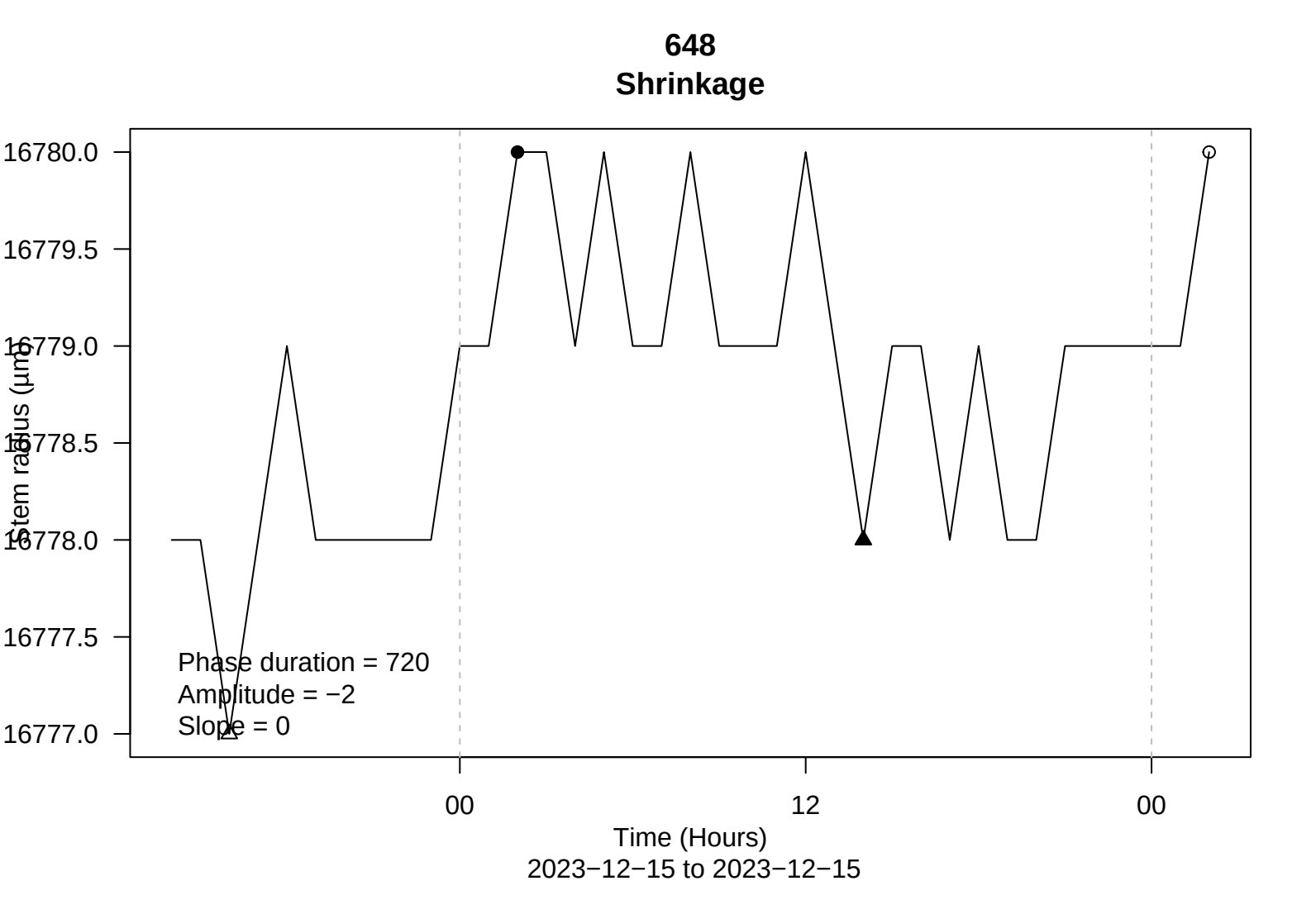

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 360
Amplitude = 3
Slope = 1e−04
18
00
06
12
18
Time (Hours)
2023−12−12 to 2023−12−12

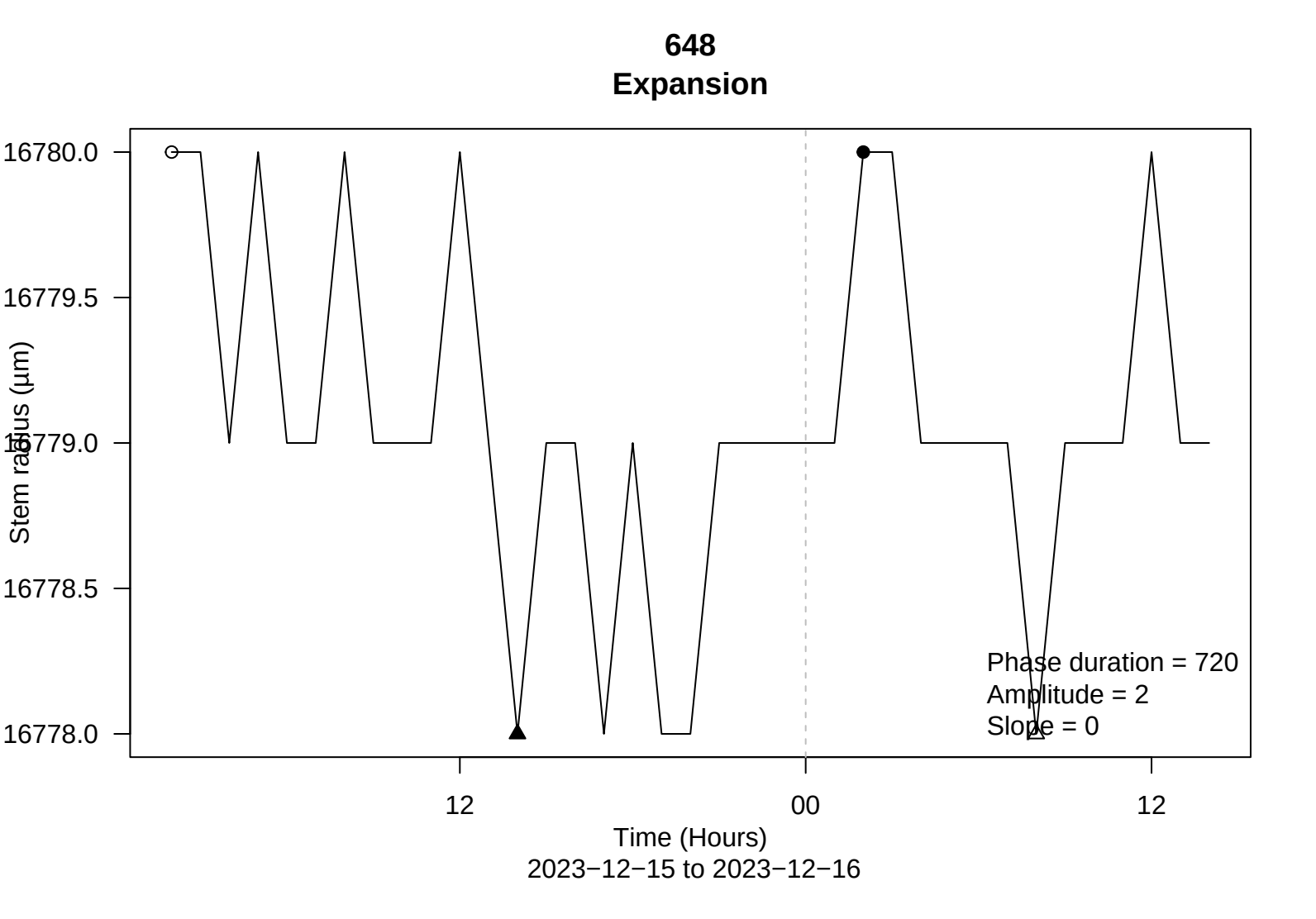

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 420
Amplitude = −3
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−12−12 to 2023−12−12

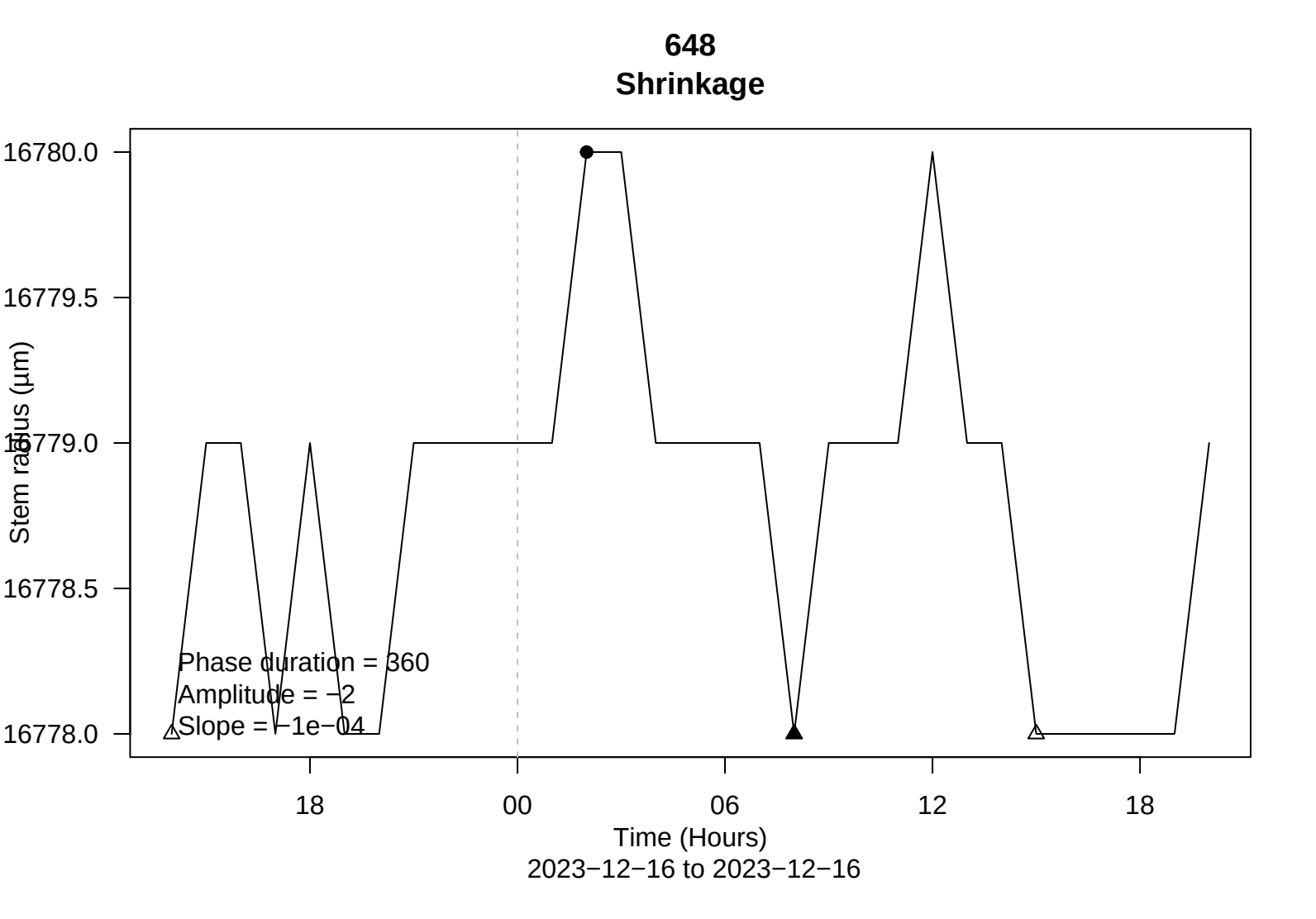

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 540
Amplitude = 3
Slope = 1e−04
12
00
12
Time (Hours)
2023−12−12 to 2023−12−13

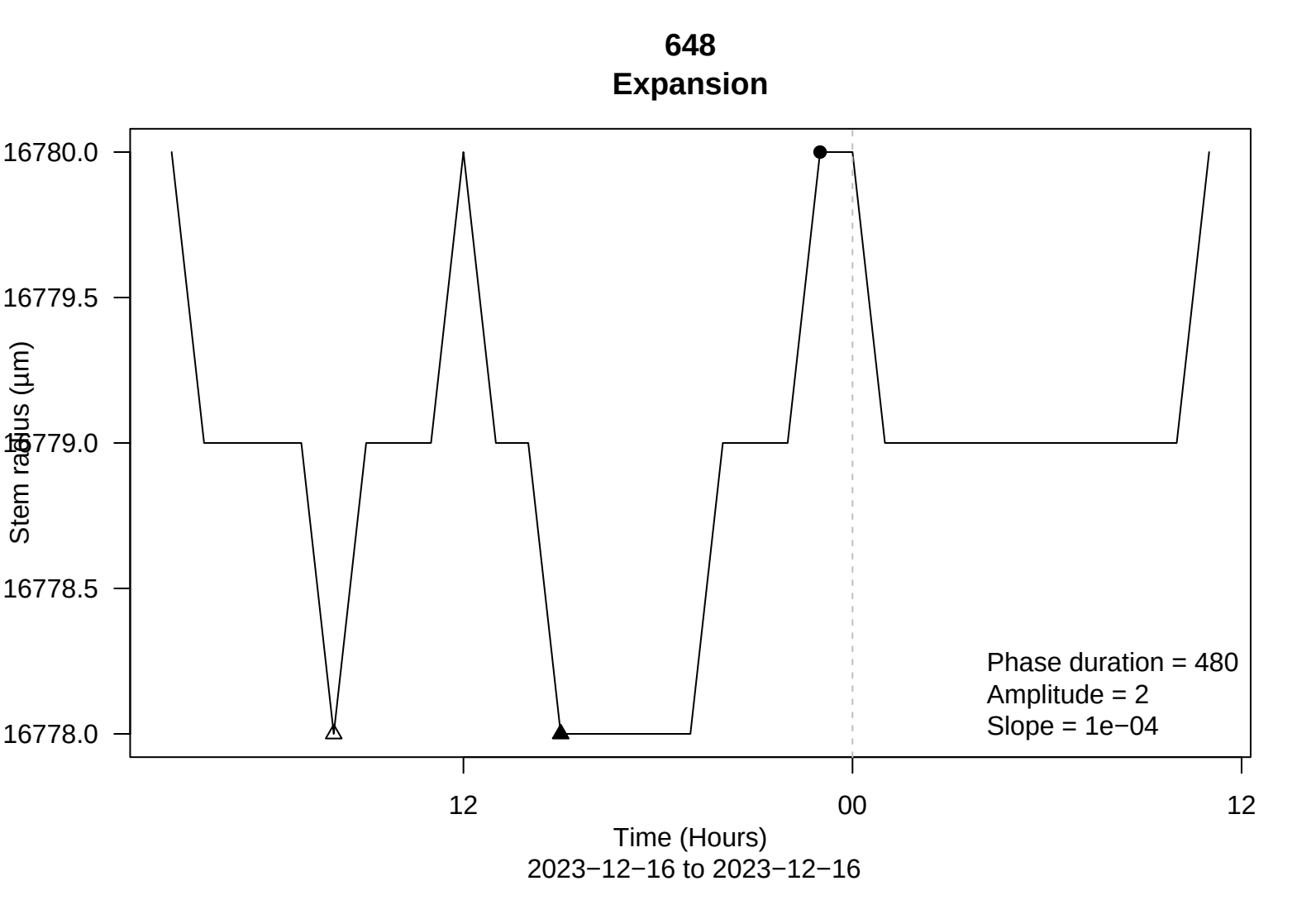

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 1020
Amplitude = −3
Slope = 0
12
00
12
00
Time (Hours)
2023−12−13 to 2023−12−13

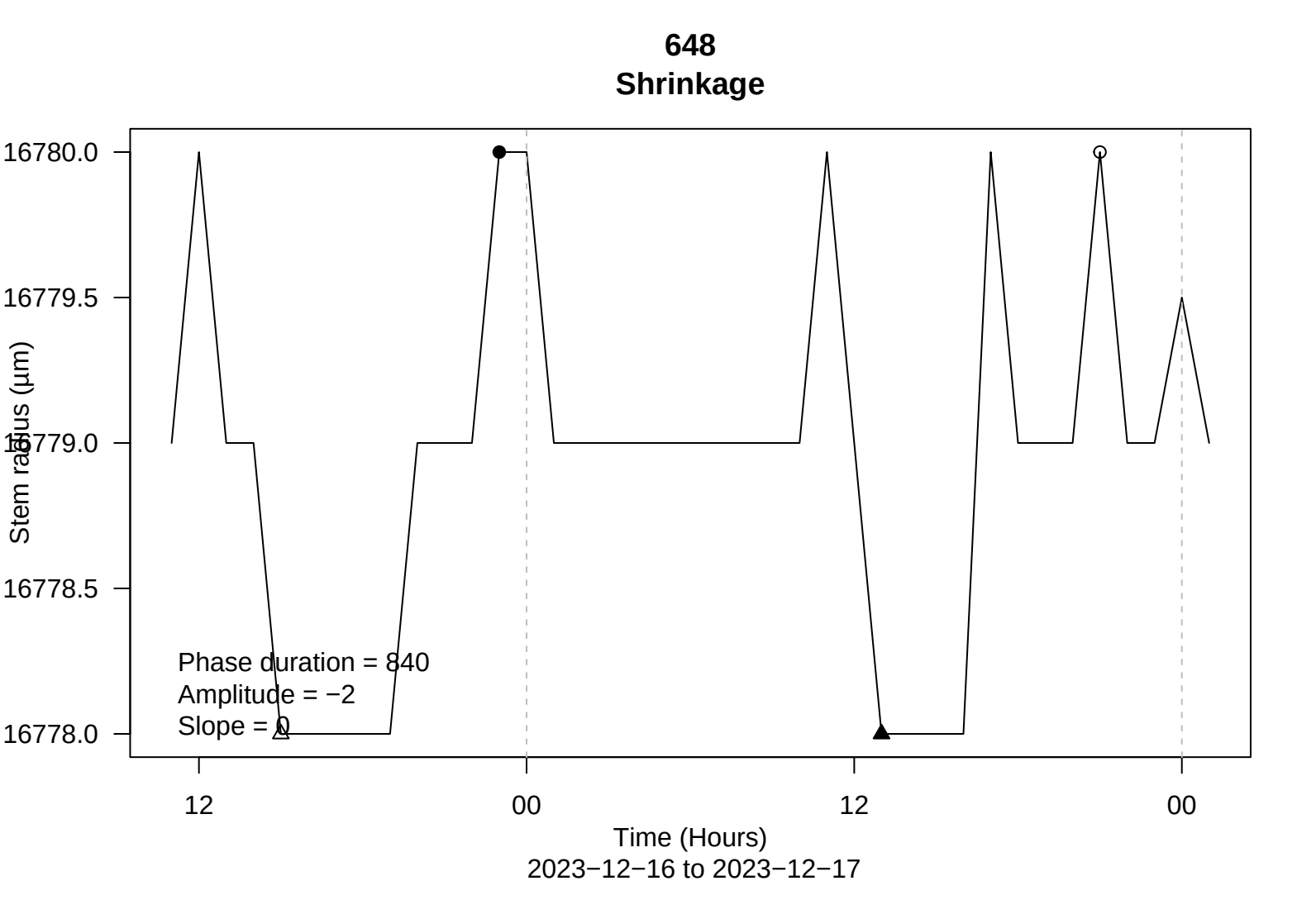

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 600
Amplitude = 3
Slope = 0
12
00
12
Time (Hours)
2023−12−14 to 2023−12−15

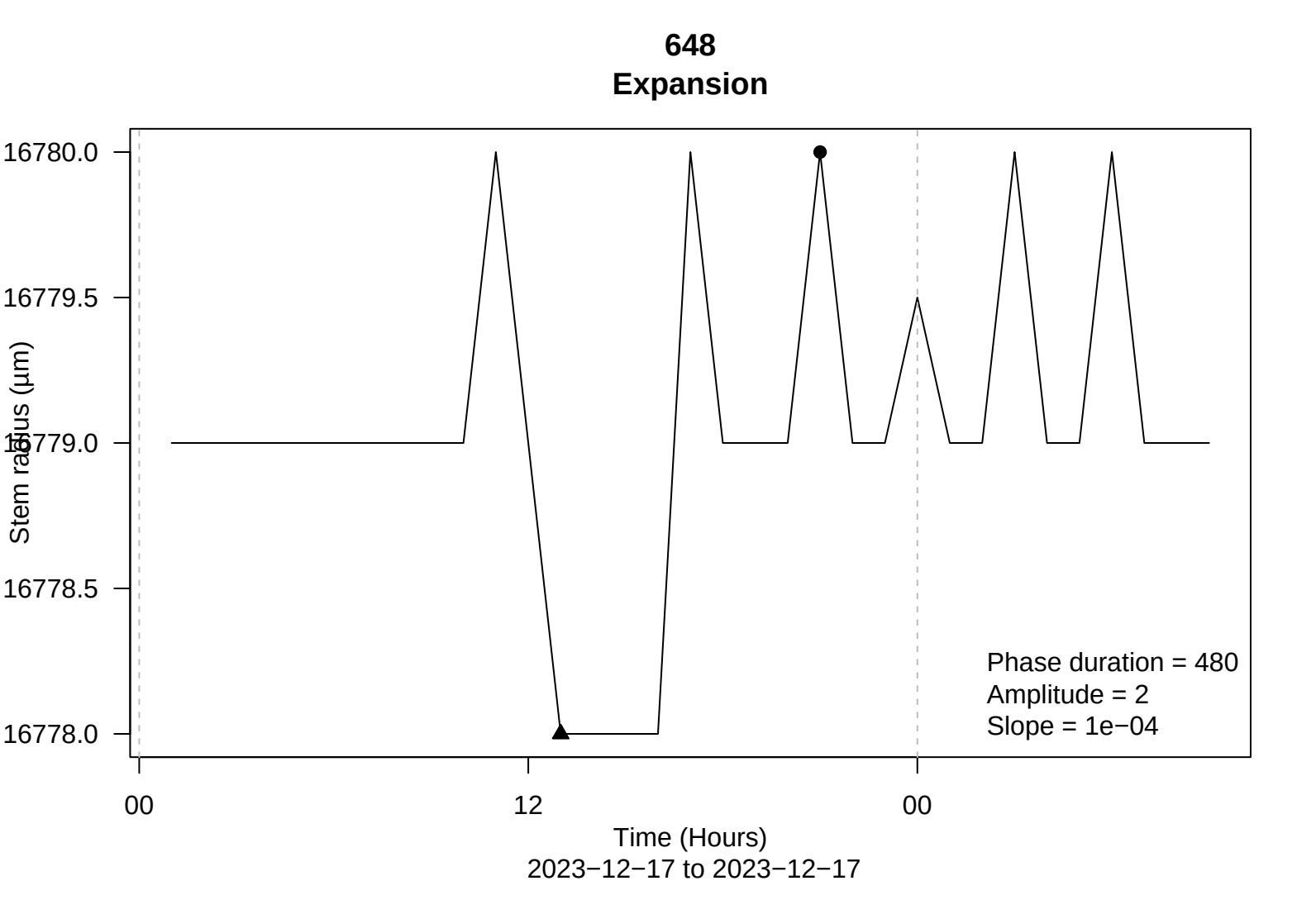

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
16777.5
16777.0
Stem radius (µm)
Phase duration = 720
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2023−12−15 to 2023−12−15

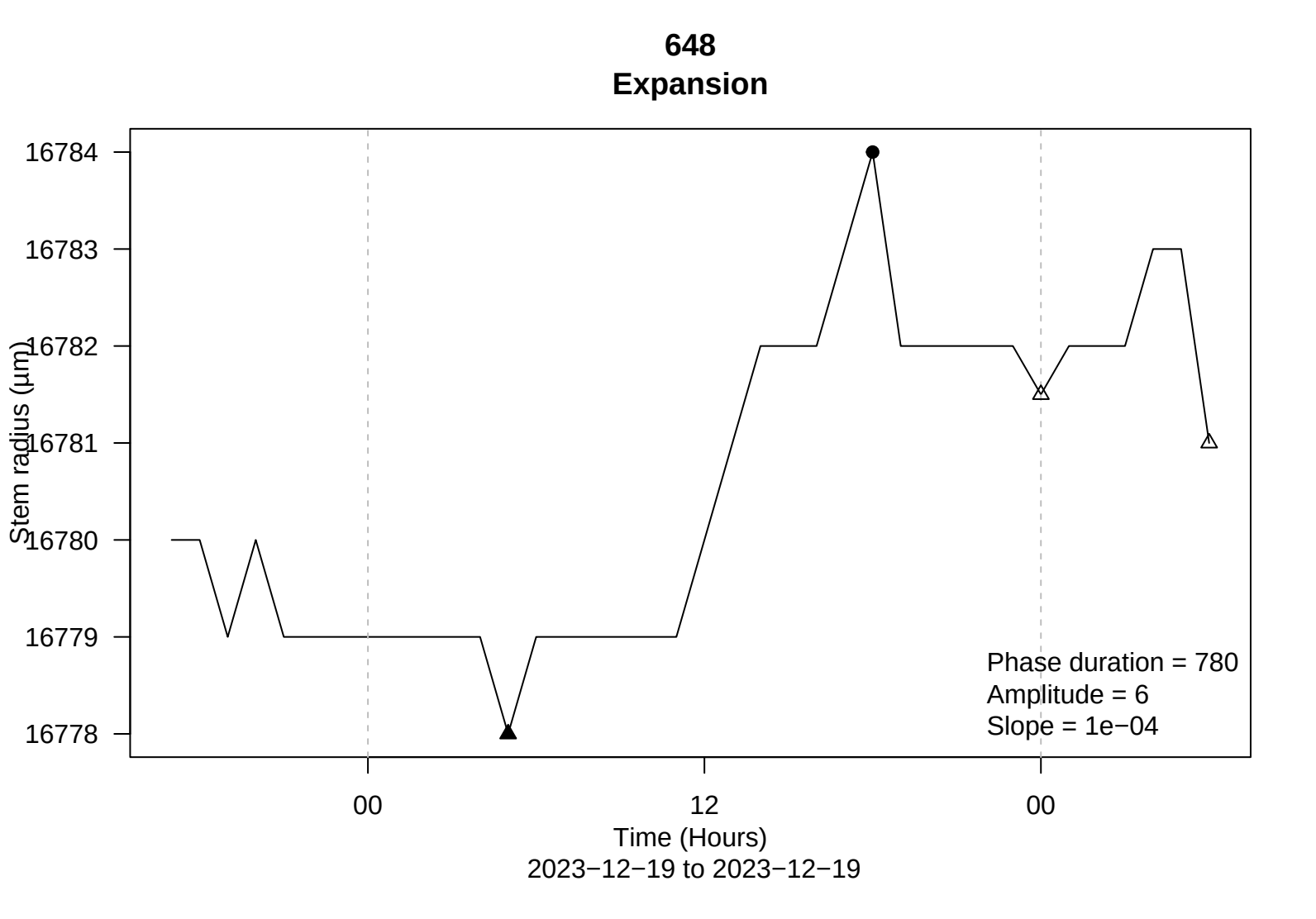

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
12
00
12
Time (Hours)
2023−12−15 to 2023−12−16
Phase duration = 720
Amplitude = 2
Slope = 0

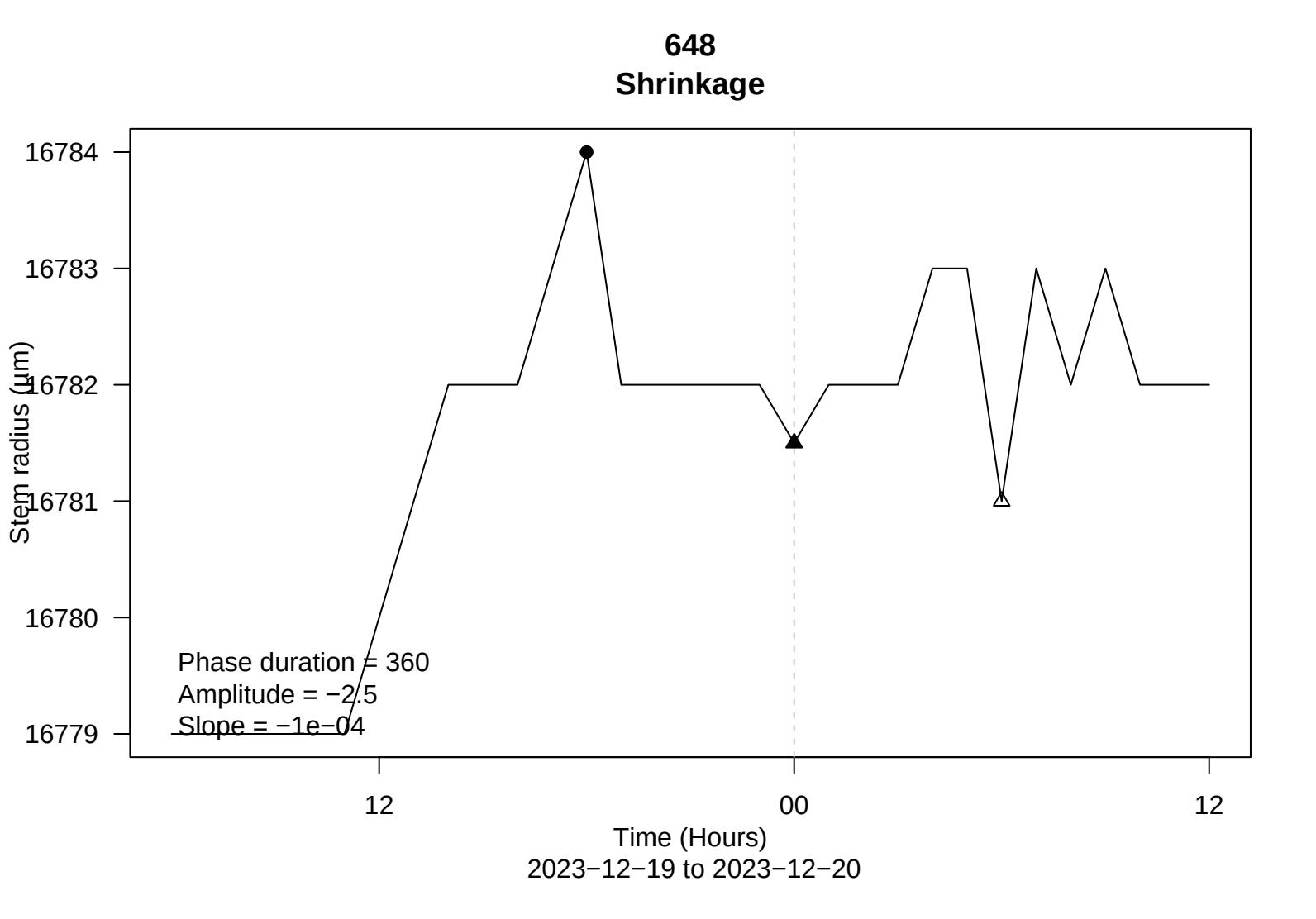

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
Phase duration = 360
Amplitude = −2
Slope = −1e−04
18
00
06
12
18
Time (Hours)
2023−12−16 to 2023−12−16

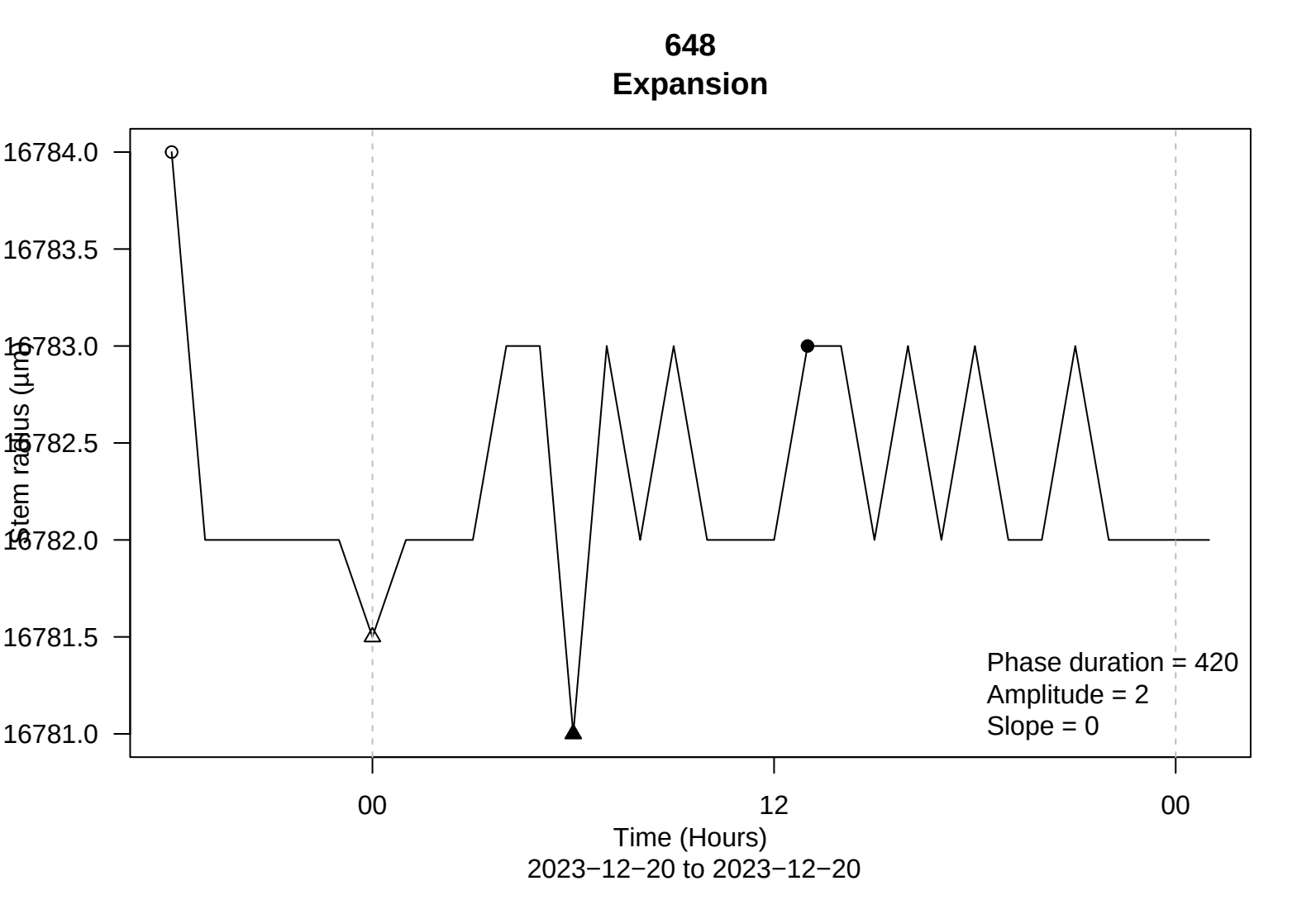

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
12
00
12
Time (Hours)
2023−12−16 to 2023−12−16
Phase duration = 480
Amplitude = 2
Slope = 1e−04

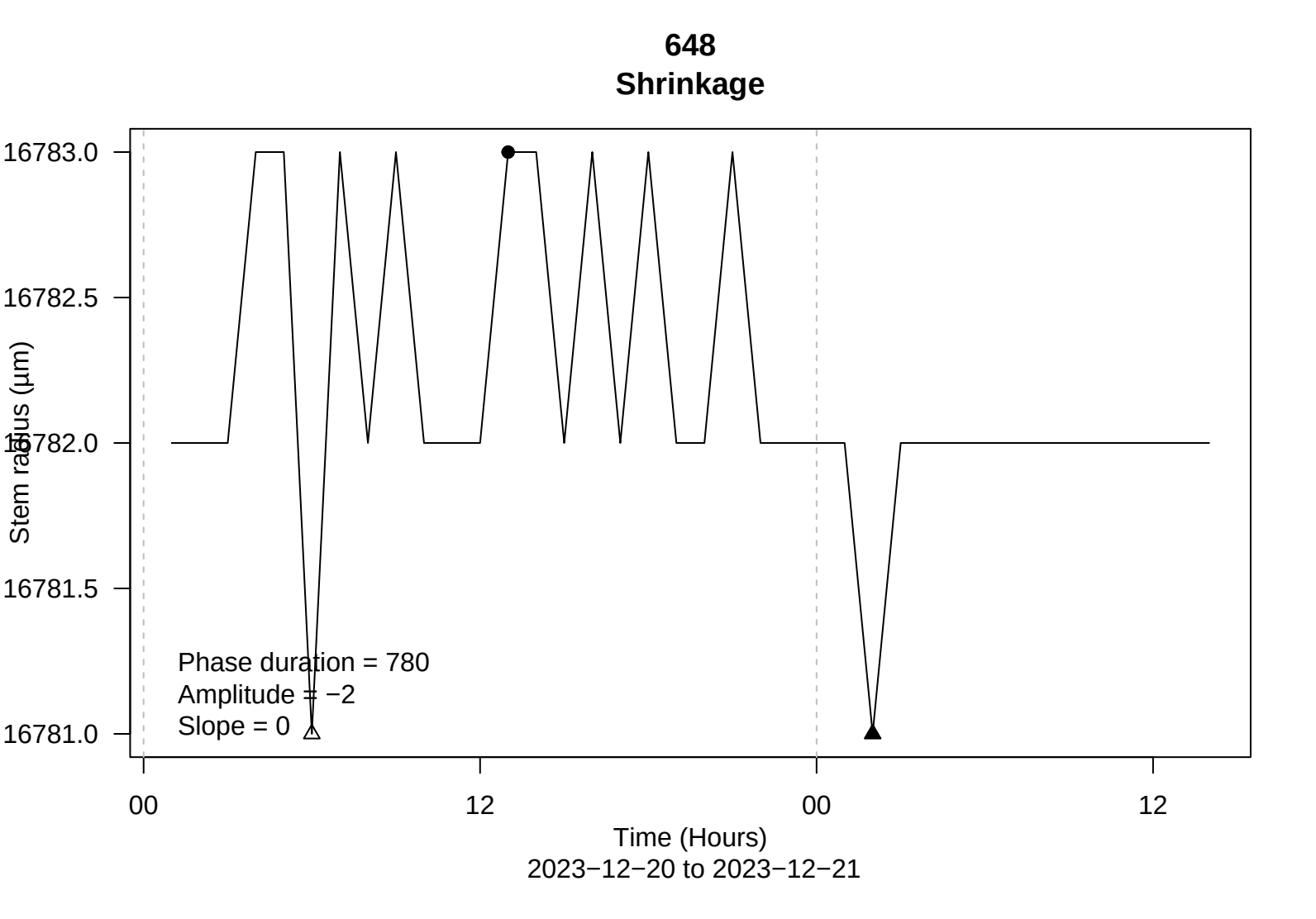

648
Shrinkage
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
Phase duration = 840
Amplitude = −2
Slope = 0
12
00
12
00
Time (Hours)
2023−12−16 to 2023−12−17

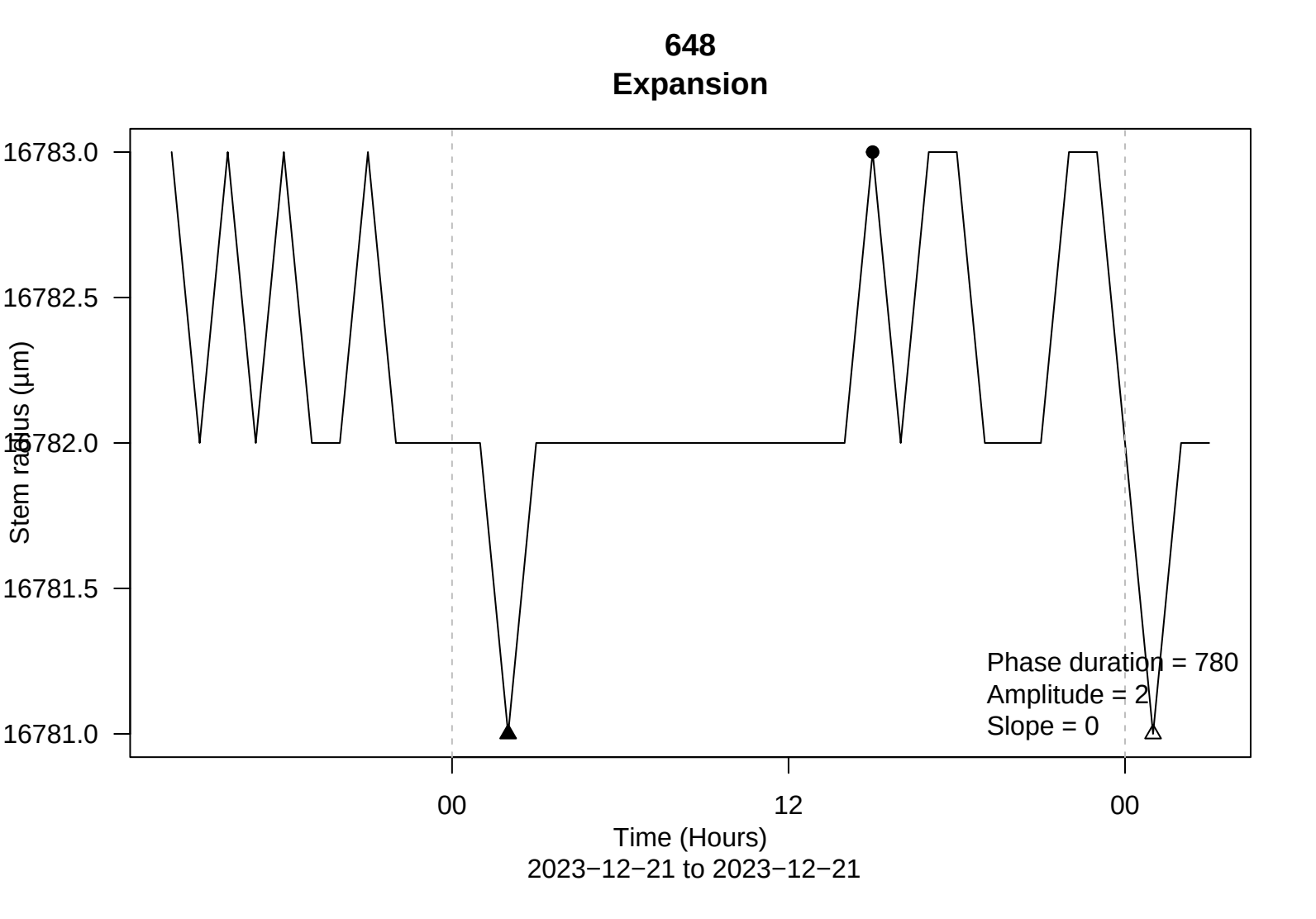

648
Expansion
16780.0
16779.5
16779.0
16778.5
16778.0
Stem radius (µm)
Phase duration = 480
Amplitude = 2
Slope = 1e−04
00
12
00
Time (Hours)
2023−12−17 to 2023−12−17

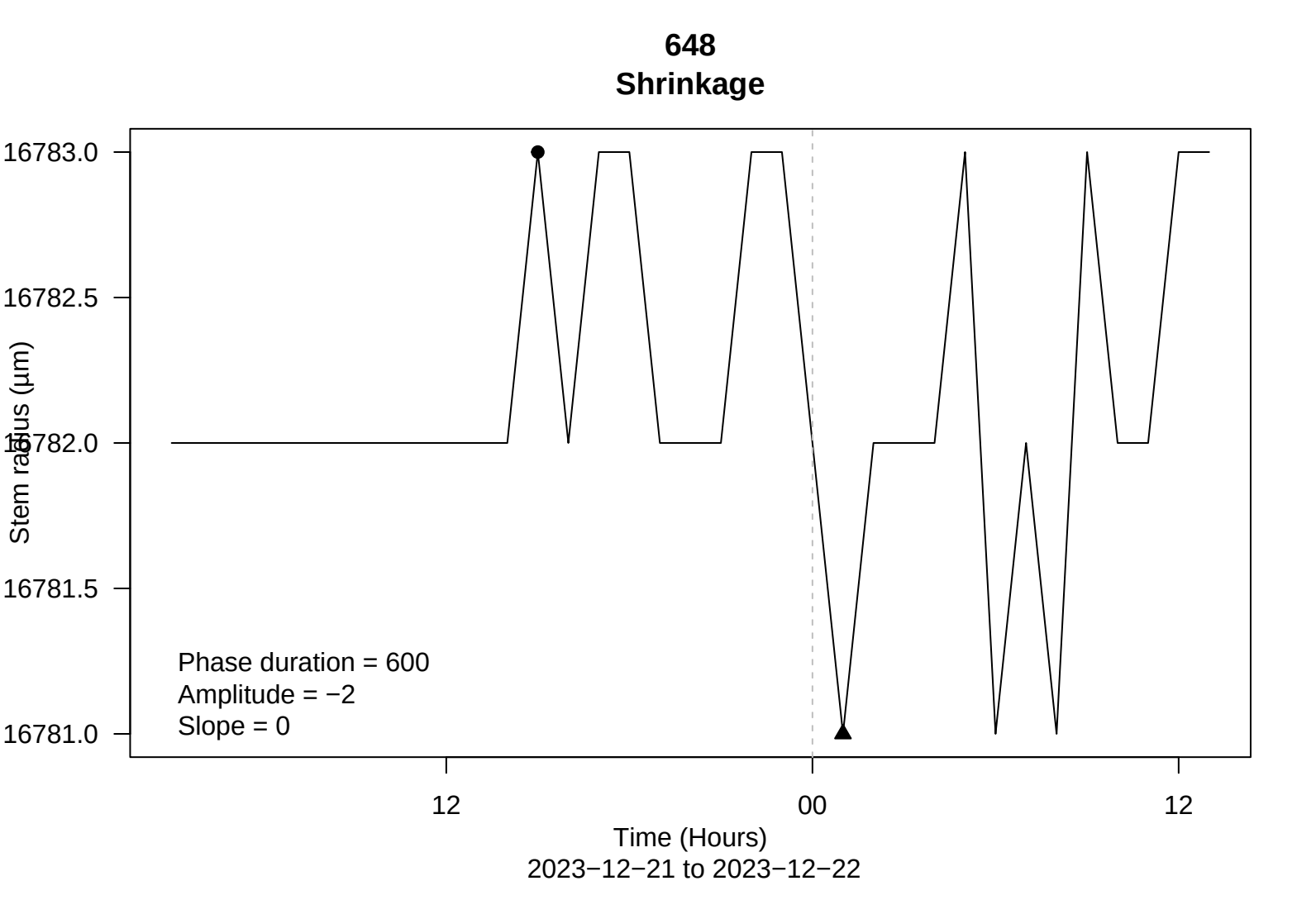

648
Expansion
16784
16783
16782
16781
16780
16779
16778
Stem radius (µm)
Phase duration = 780
Amplitude = 6
Slope = 1e−04
00
12
00
Time (Hours)
2023−12−19 to 2023−12−19

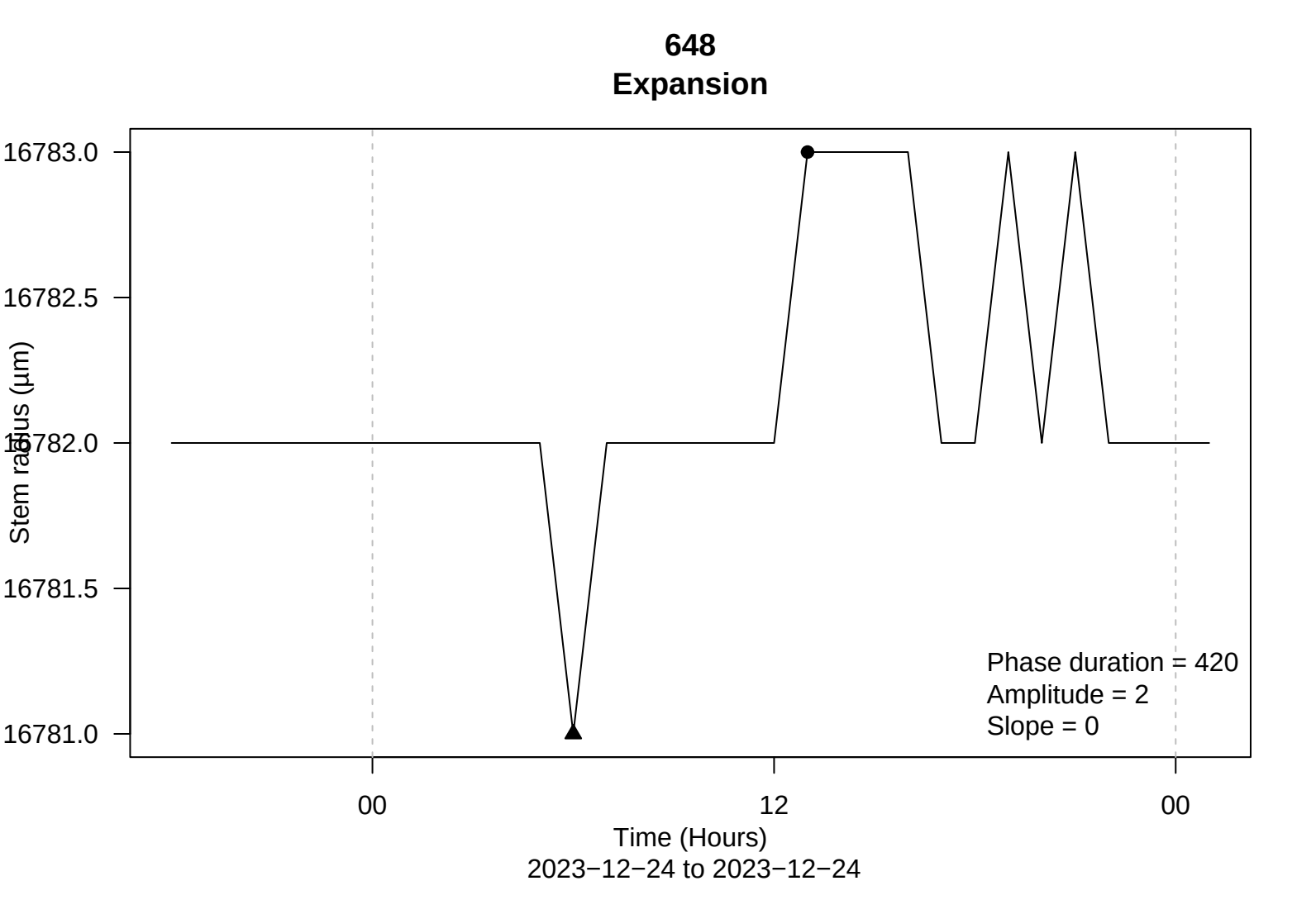

648
Shrinkage
16784
16783
16782
16781
16780
16779
Stem radius (µm)
Phase duration = 360
Amplitude = −2.5
Slope = −1e−04
12
00
12
Time (Hours)
2023−12−19 to 2023−12−20

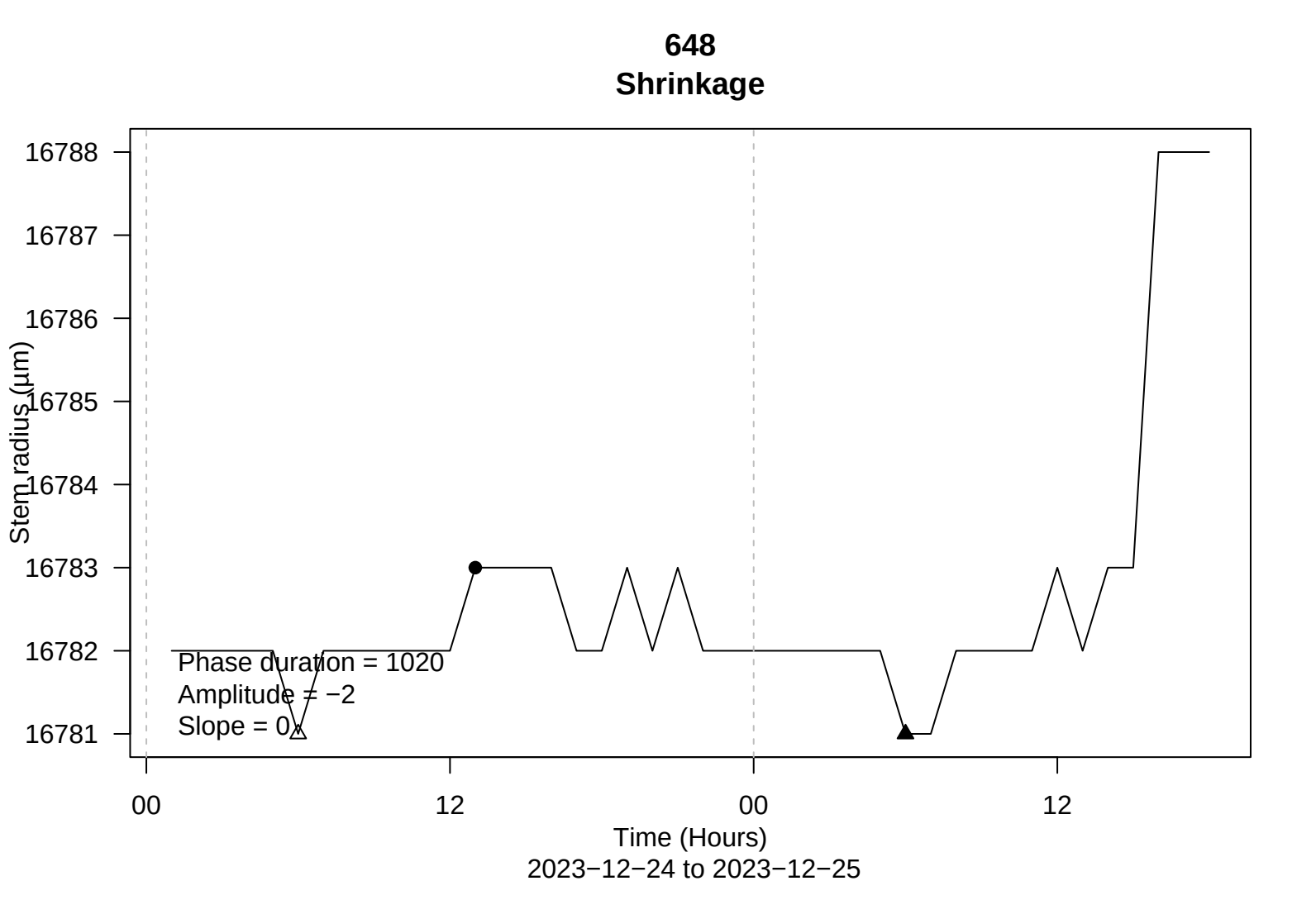

648
Expansion
16784.0
16783.5
16783.0
16782.5
16782.0
16781.5
16781.0
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−12−20 to 2023−12−20

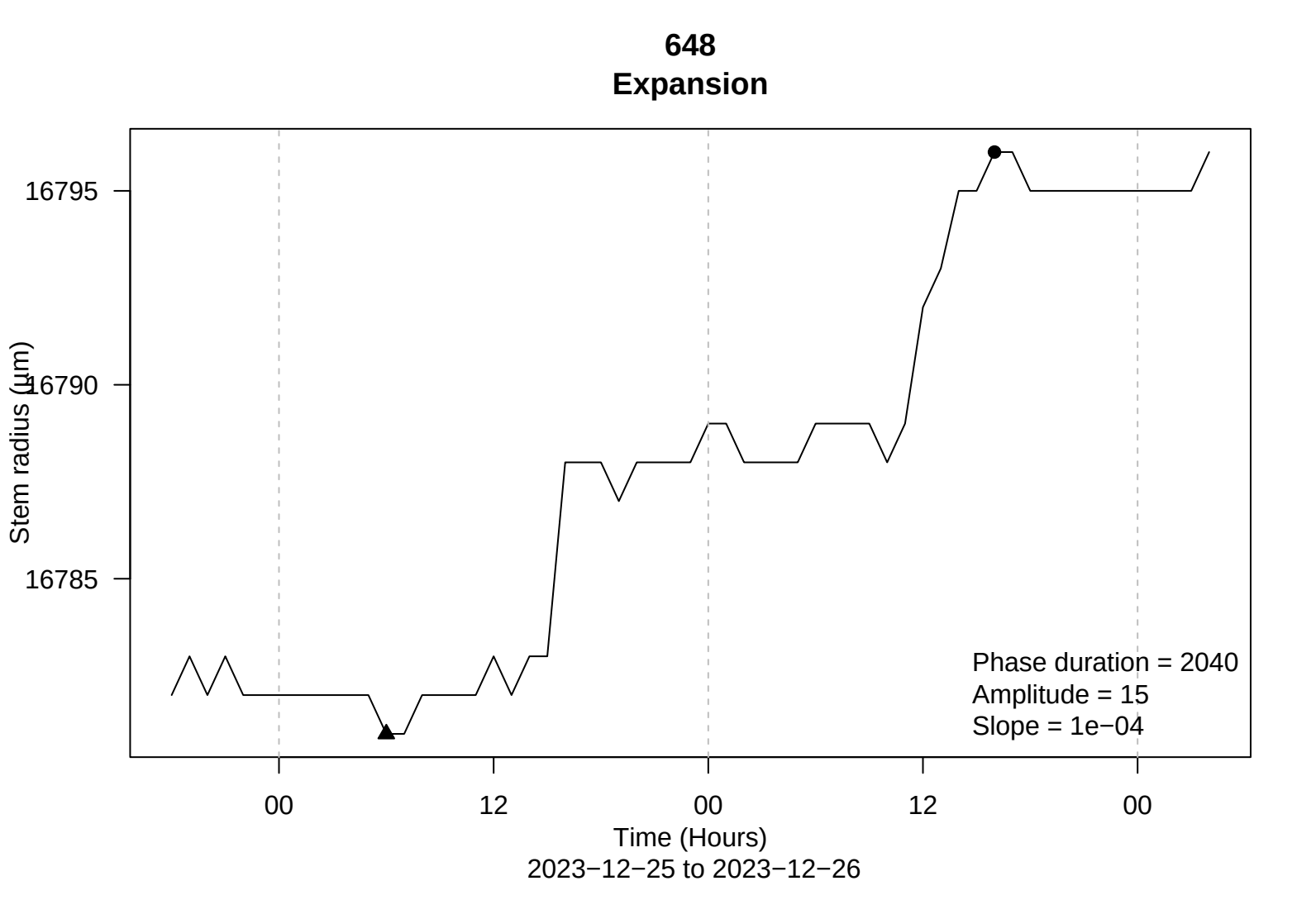

648
Shrinkage
16783.0
16782.5
16782.0
16781.5
16781.0
Stem radius (µm)
Phase duration = 780
Amplitude = −2
Slope = 0
00
12
00
12
Time (Hours)
2023−12−20 to 2023−12−21

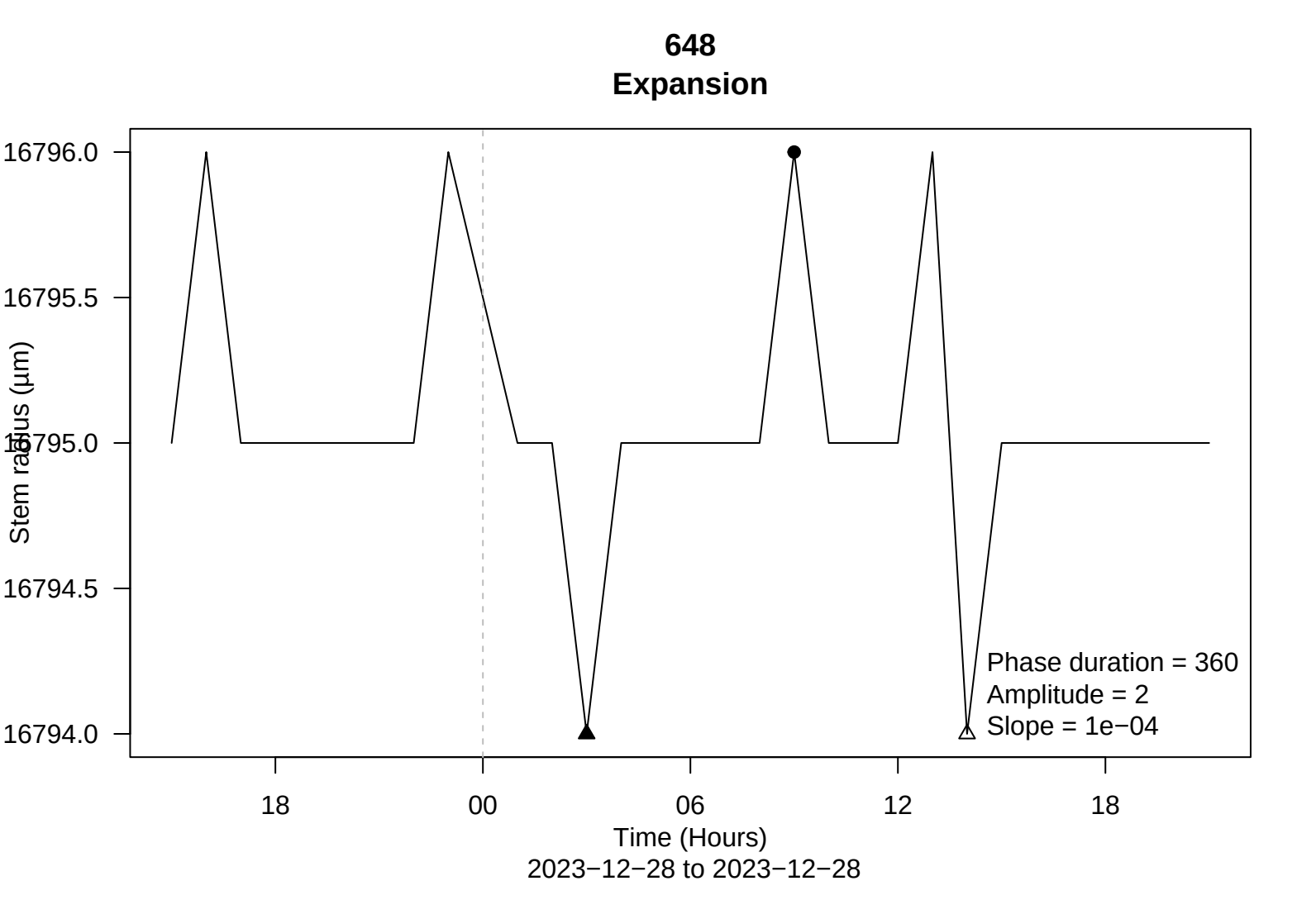

648
Expansion
16783.0
16782.5
16782.0
16781.5
16781.0
Stem radius (µm)
Phase duration = 780
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−12−21 to 2023−12−21

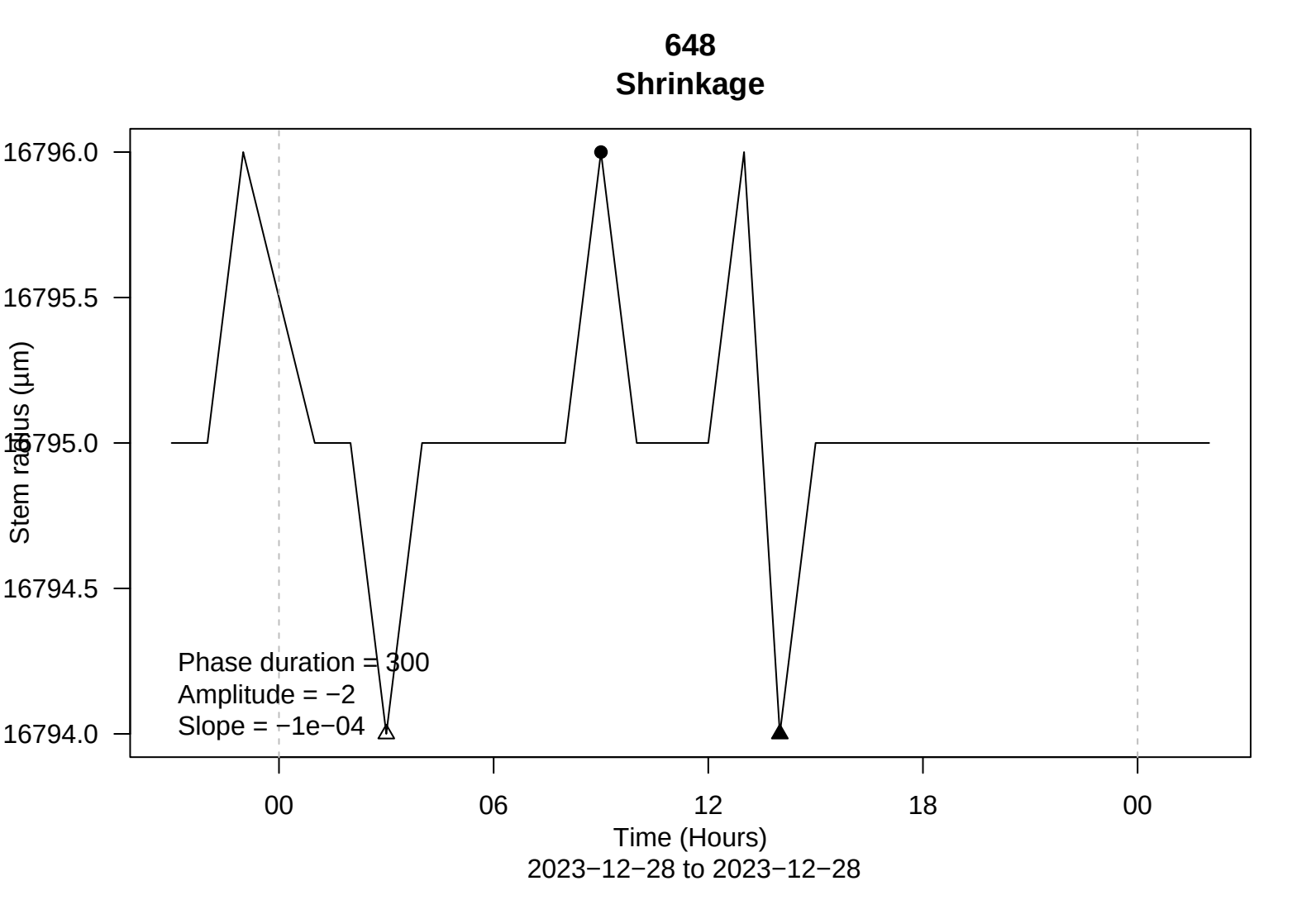

648
Shrinkage
16783.0
16782.5
16782.0
16781.5
16781.0
Stem radius (µm)
Phase duration = 600
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−12−21 to 2023−12−22

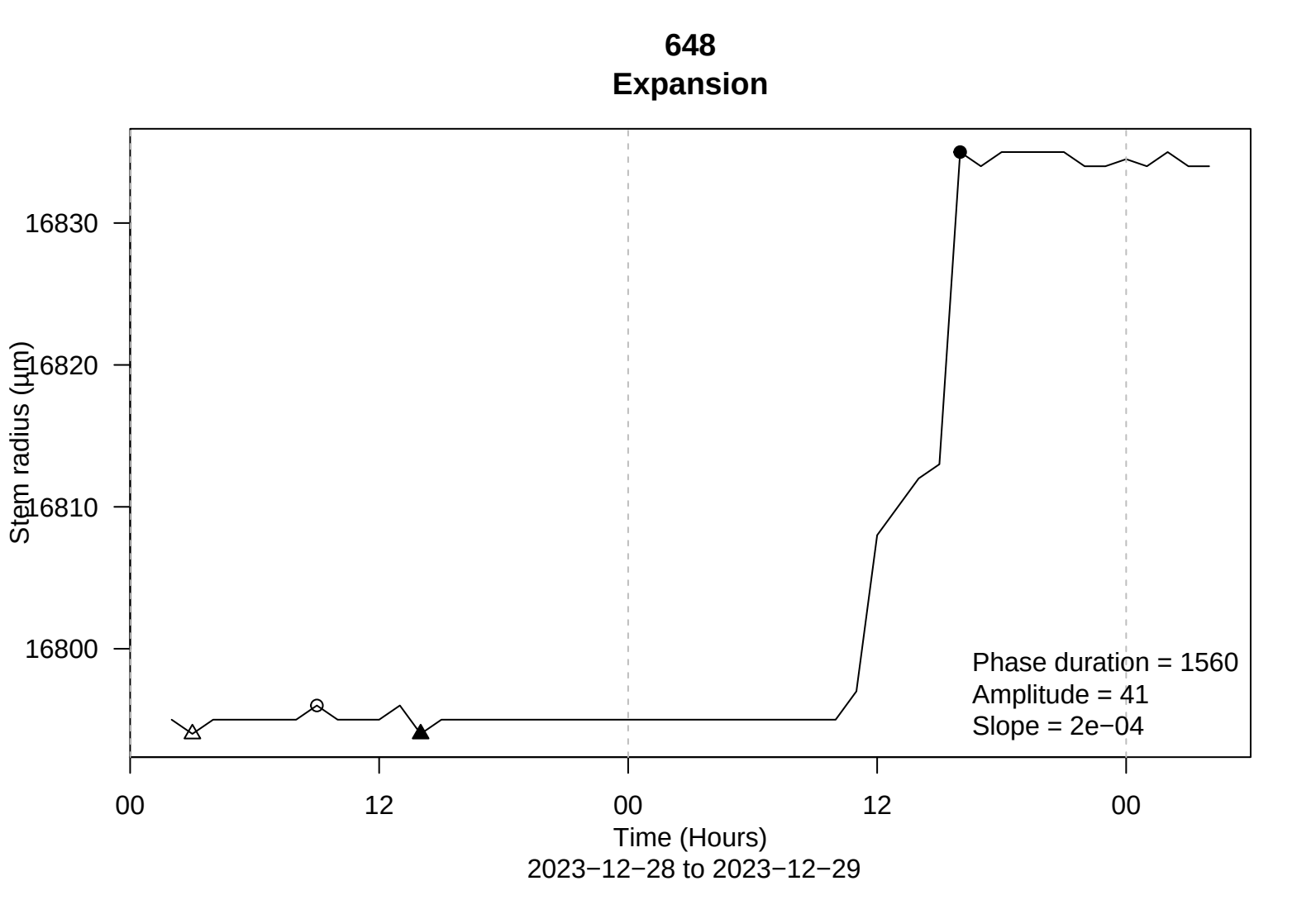

648
Expansion
16783.0
16782.5
16782.0
16781.5
16781.0
Stem radius (µm)
Phase duration = 420
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2023−12−24 to 2023−12−24

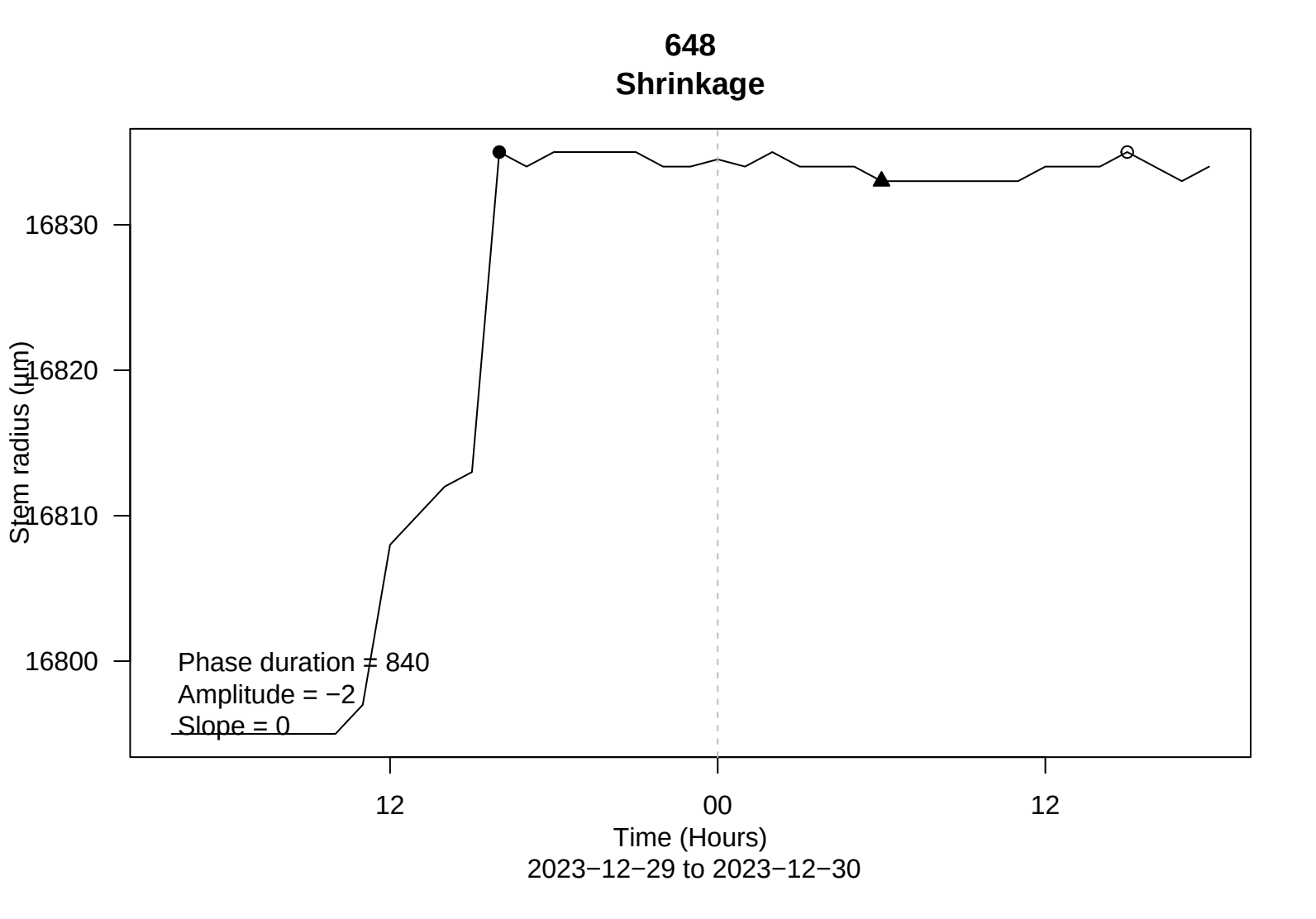

648
Shrinkage
16788
16787
16786
16785
16784
16783
16782
16781
Stem radius (µm)
Phase duration = 1020
Amplitude = −2
Slope = 0
00
12
00
12
Time (Hours)
2023−12−24 to 2023−12−25

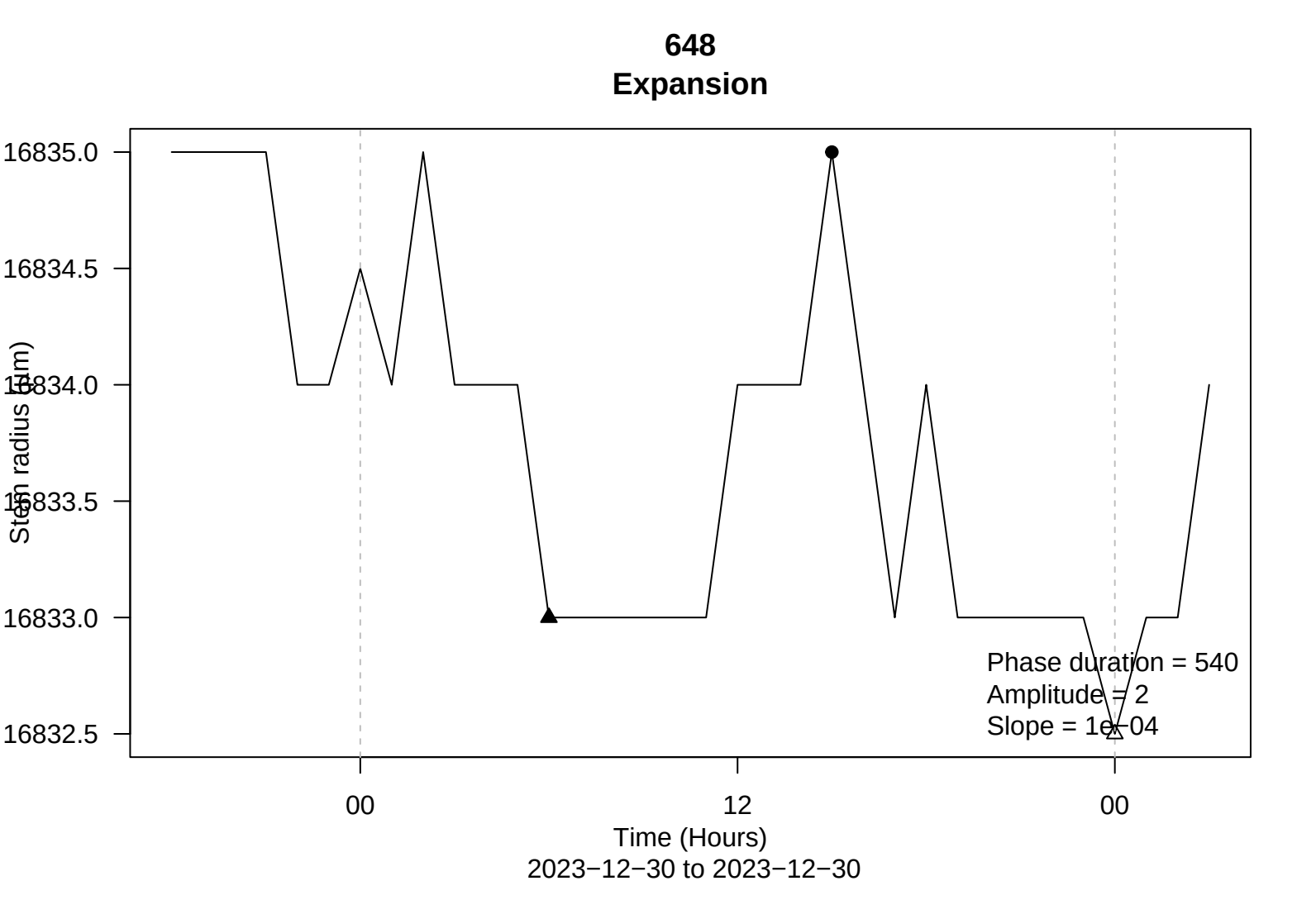

648
Expansion
16795
16790
16785
Stem radius (µm)
Phase duration = 2040
Amplitude = 15
Slope = 1e−04
00
12
00
12
00
Time (Hours)
2023−12−25 to 2023−12−26

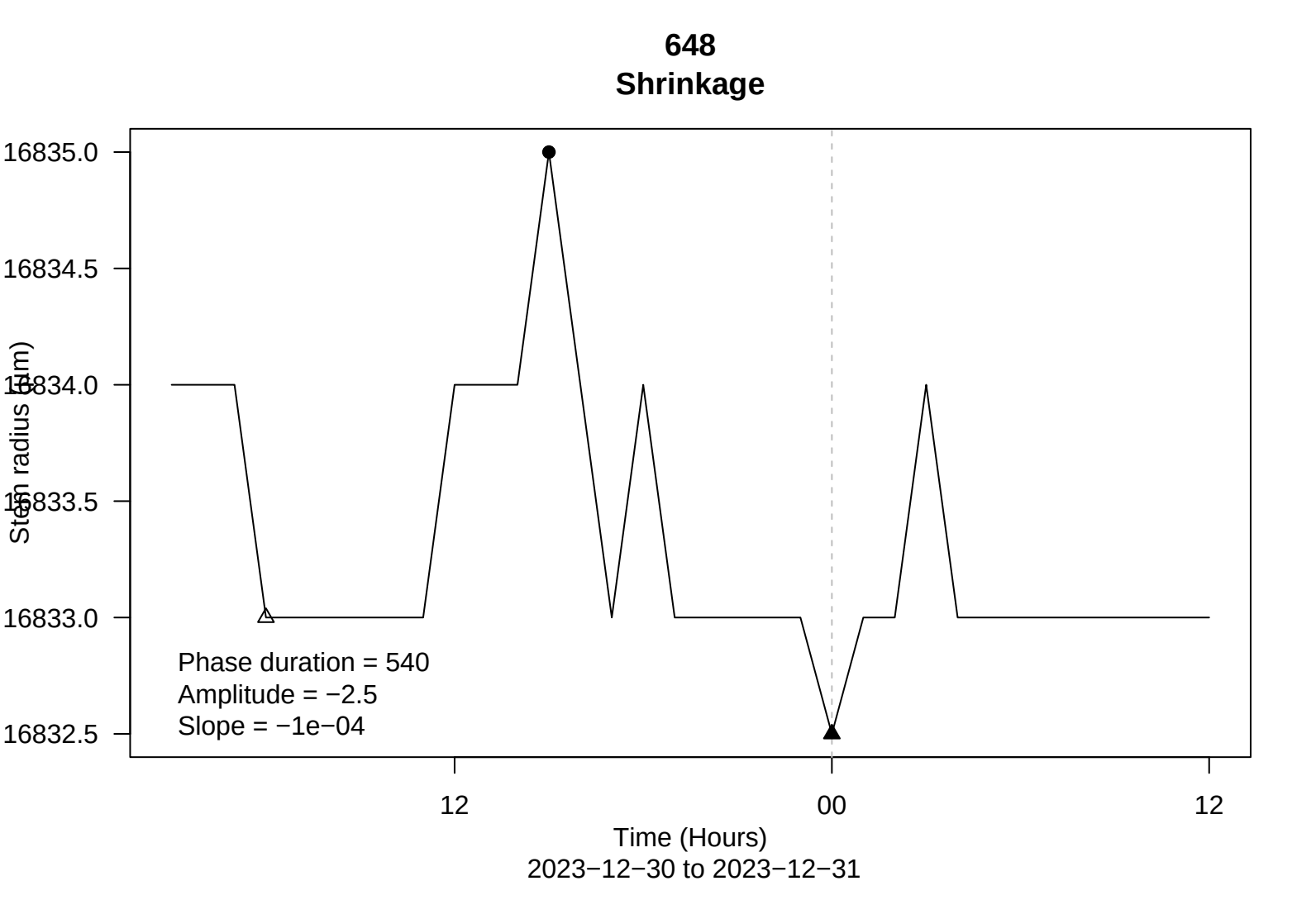

648
Expansion
16796.0
16795.5
16795.0
16794.5
16794.0
Stem radius (µm)
Phase duration = 360
Amplitude = 2
Slope = 1e−04
18
00
06
12
18
Time (Hours)
2023−12−28 to 2023−12−28

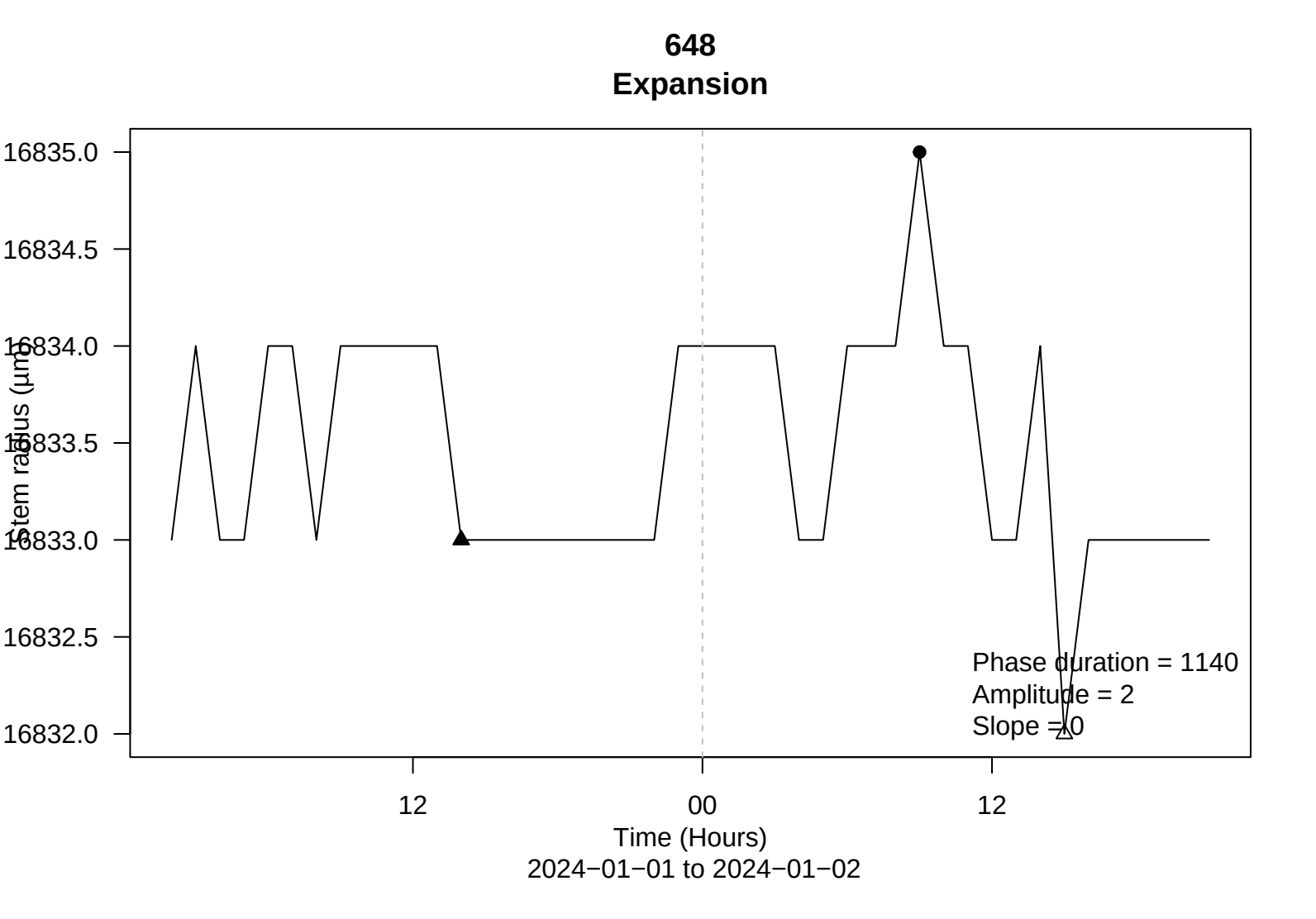

648
Shrinkage
16796.0
16795.5
16795.0
16794.5
16794.0
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2023−12−28 to 2023−12−28

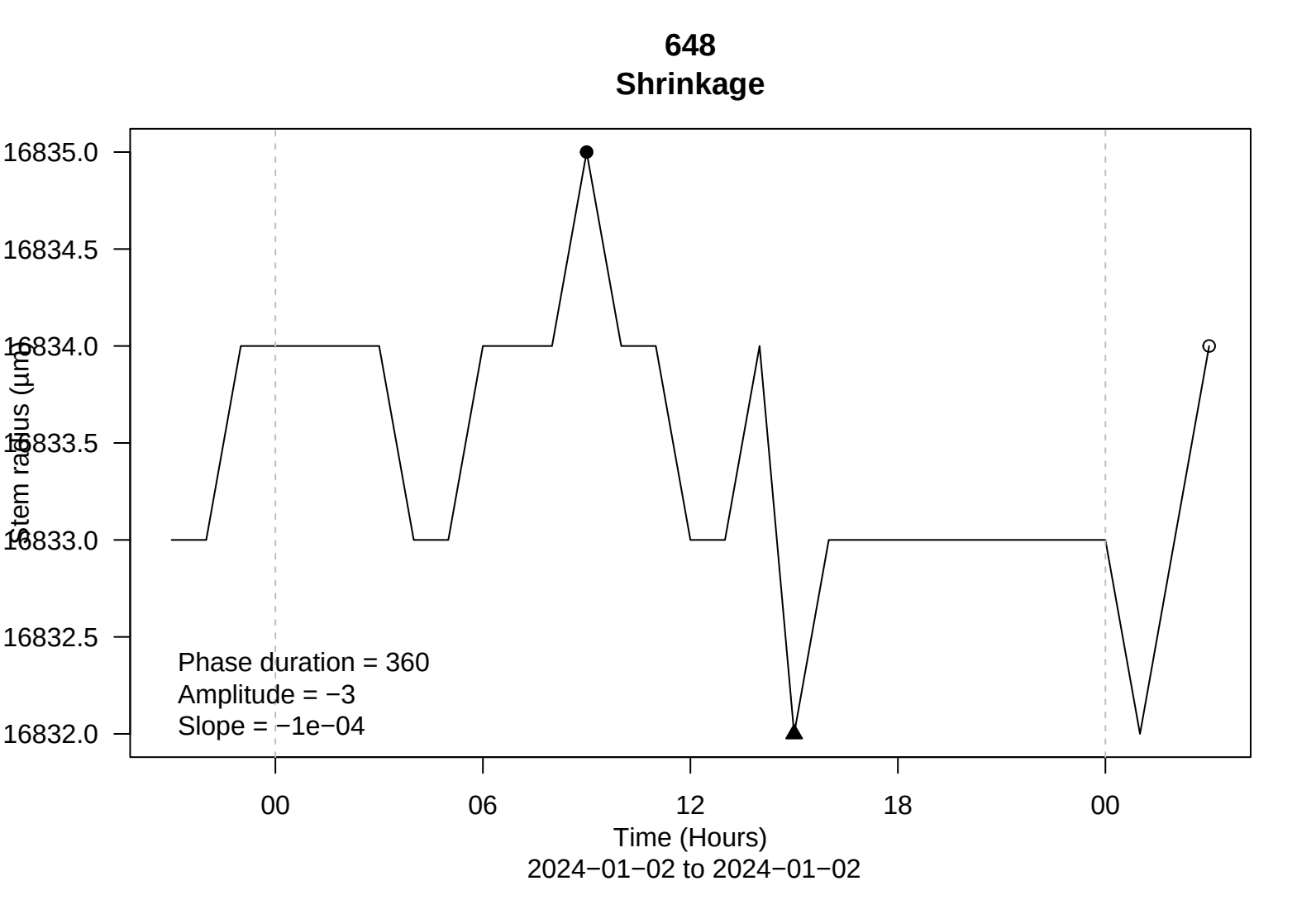

648
Expansion
16830
16820
16810
16800
Stem radius (µm)
Phase duration = 1560
Amplitude = 41
Slope = 2e−04
00
12
00
12
00
Time (Hours)
2023−12−28 to 2023−12−29

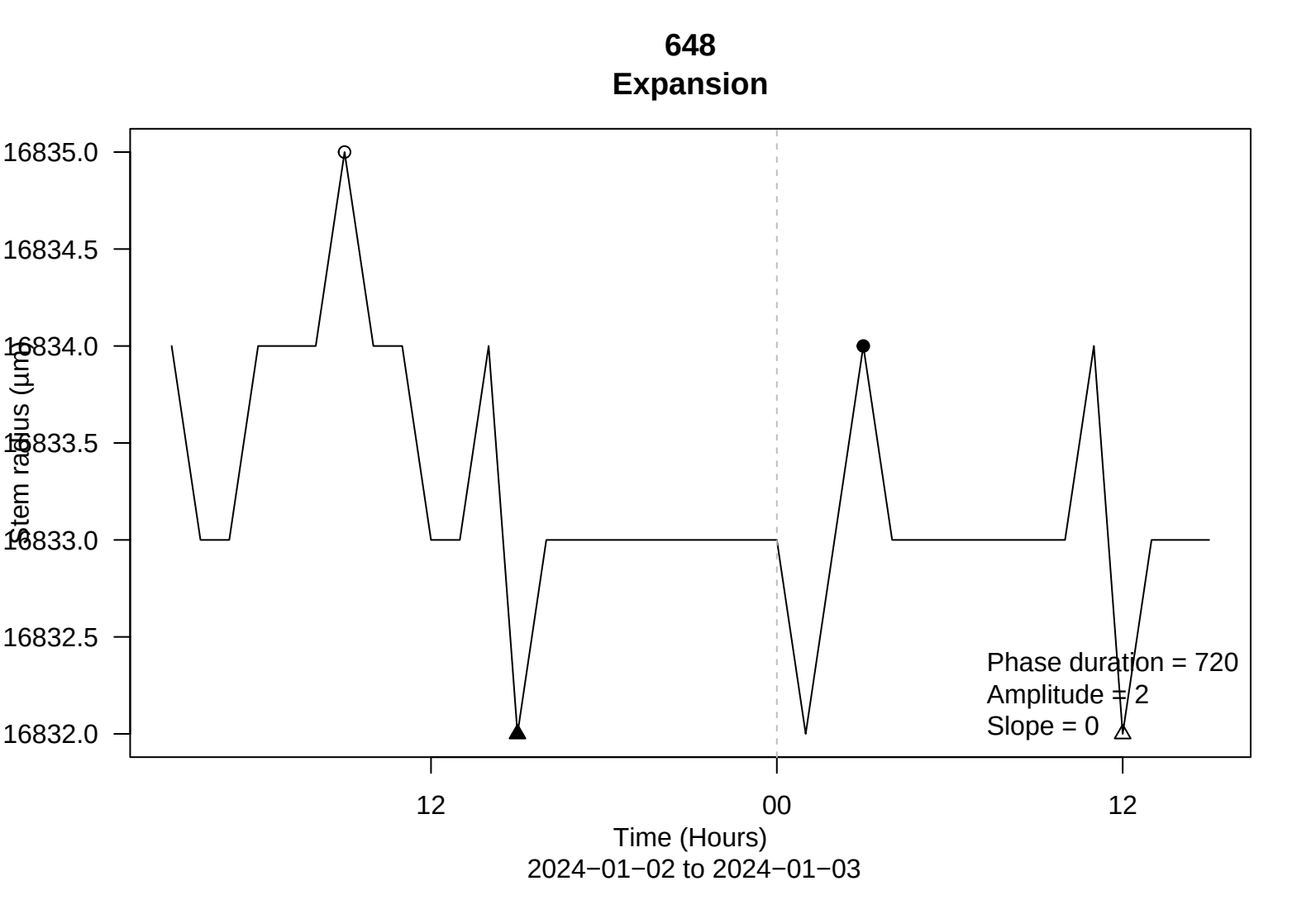

648
Shrinkage
16830
16820
16810
16800
Stem radius (µm)
Phase duration = 840
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2023−12−29 to 2023−12−30

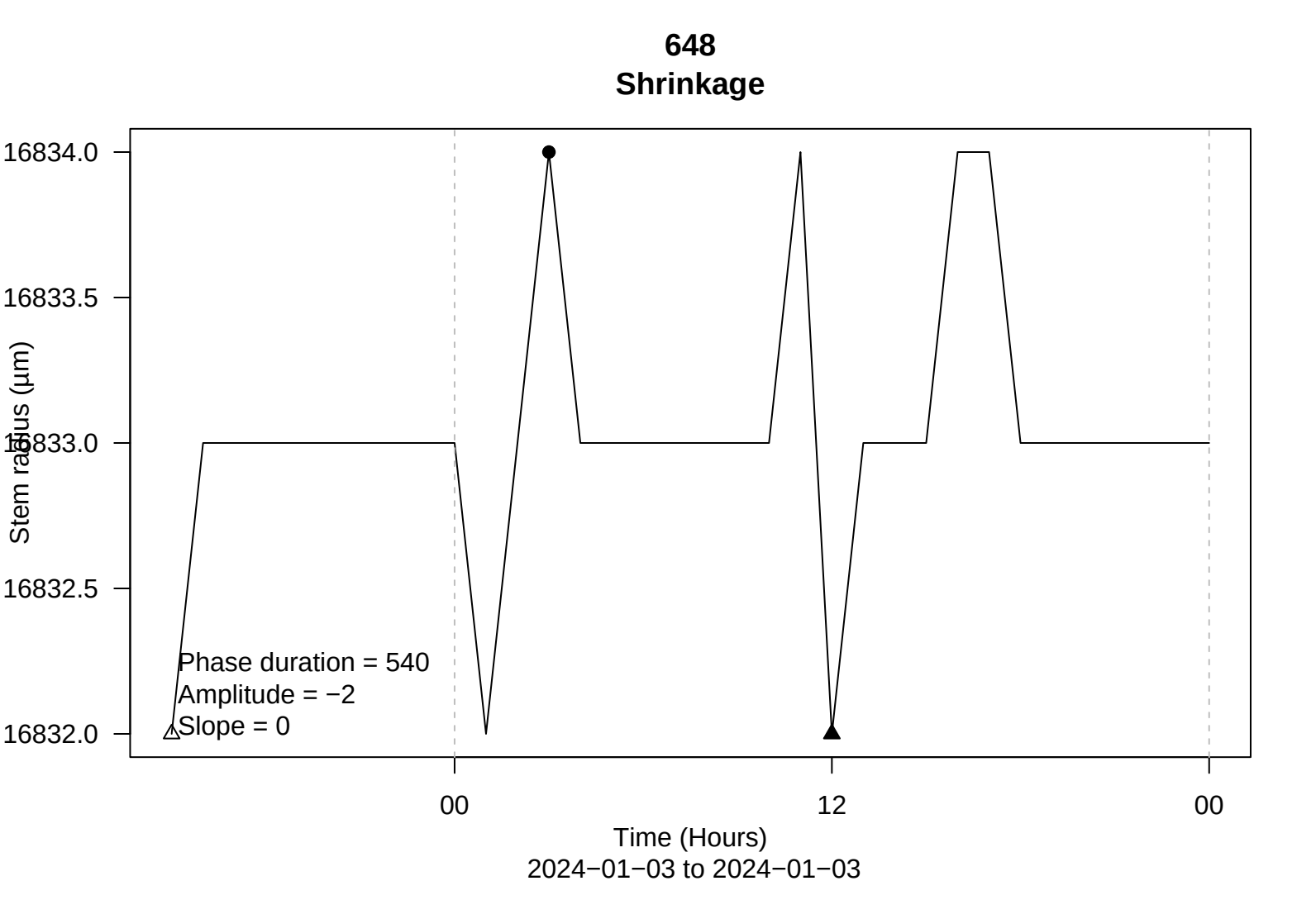

648
Expansion
16835.0
16834.5
16834.0
16833.5
16833.0
16832.5
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 1e−04
00
12
00
Time (Hours)
2023−12−30 to 2023−12−30

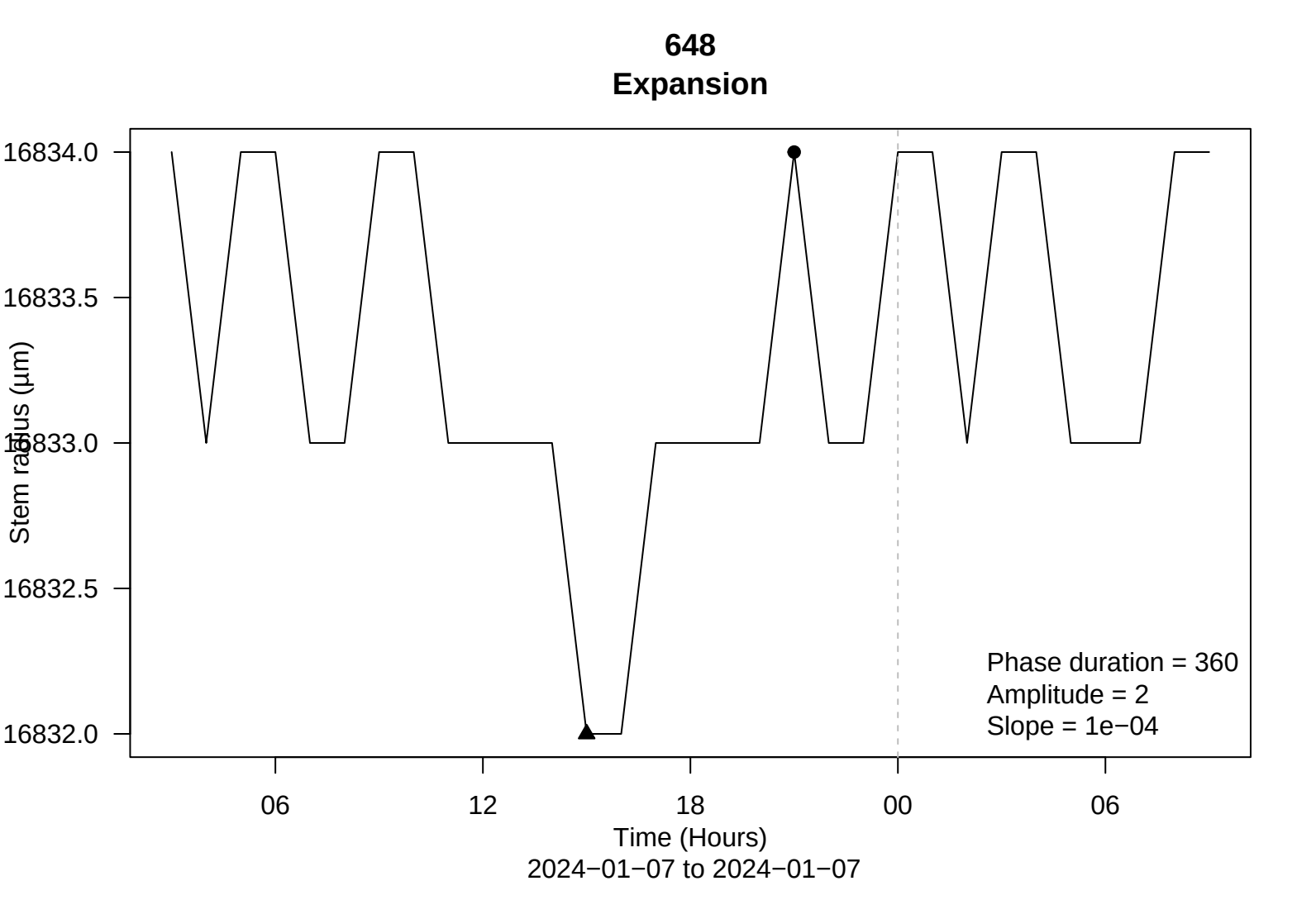

648
Shrinkage
16835.0
16834.5
16834.0
16833.5
16833.0
16832.5
Stem radius (µm)
Phase duration = 540
Amplitude = −2.5
Slope = −1e−04
12
00
12
Time (Hours)
2023−12−30 to 2023−12−31

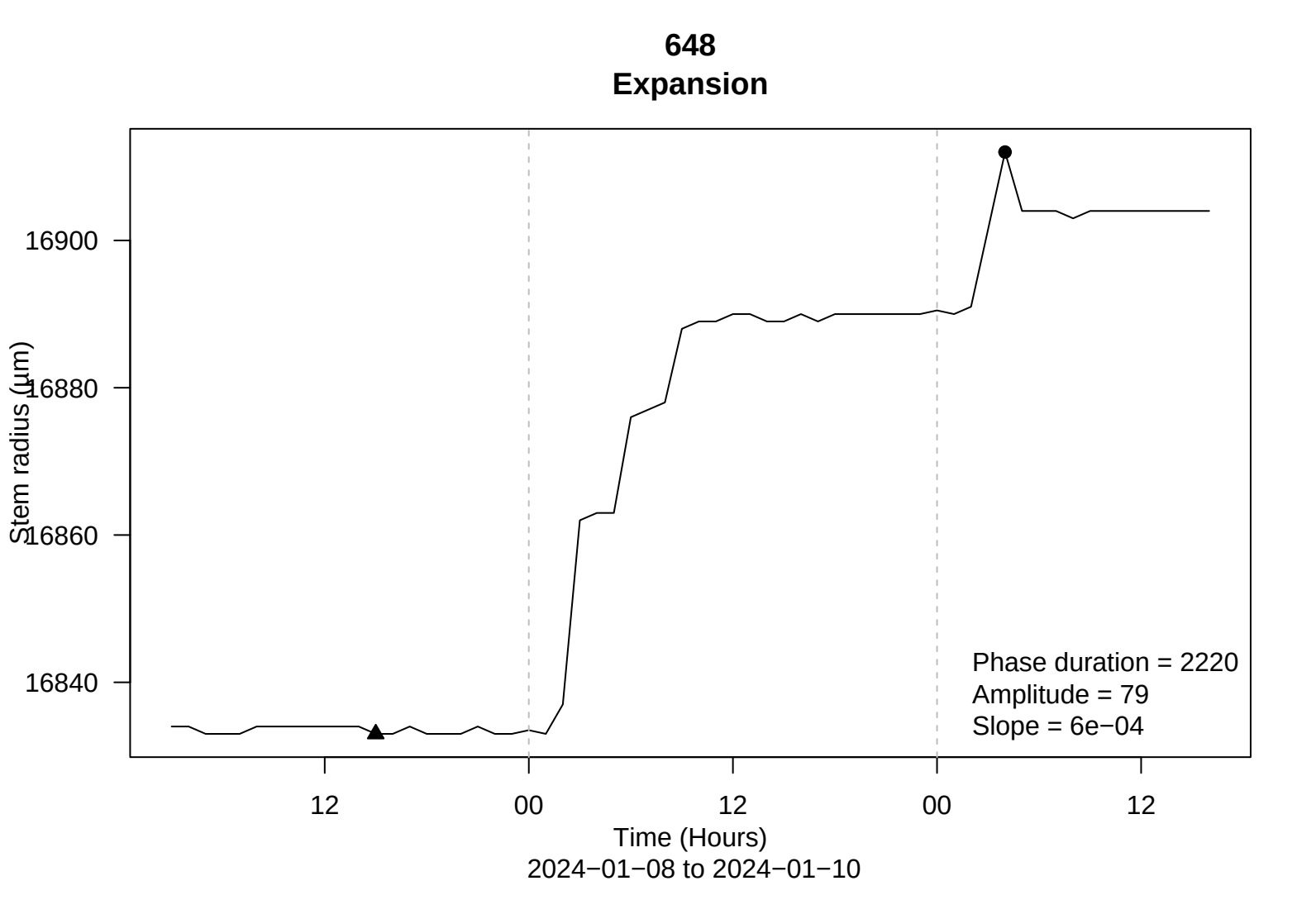

648
Expansion
16835.0
16834.5
16834.0
16833.5
16833.0
16832.5
16832.0
Stem radius (µm)
Phase duration = 1140
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2024−01−01 to 2024−01−02

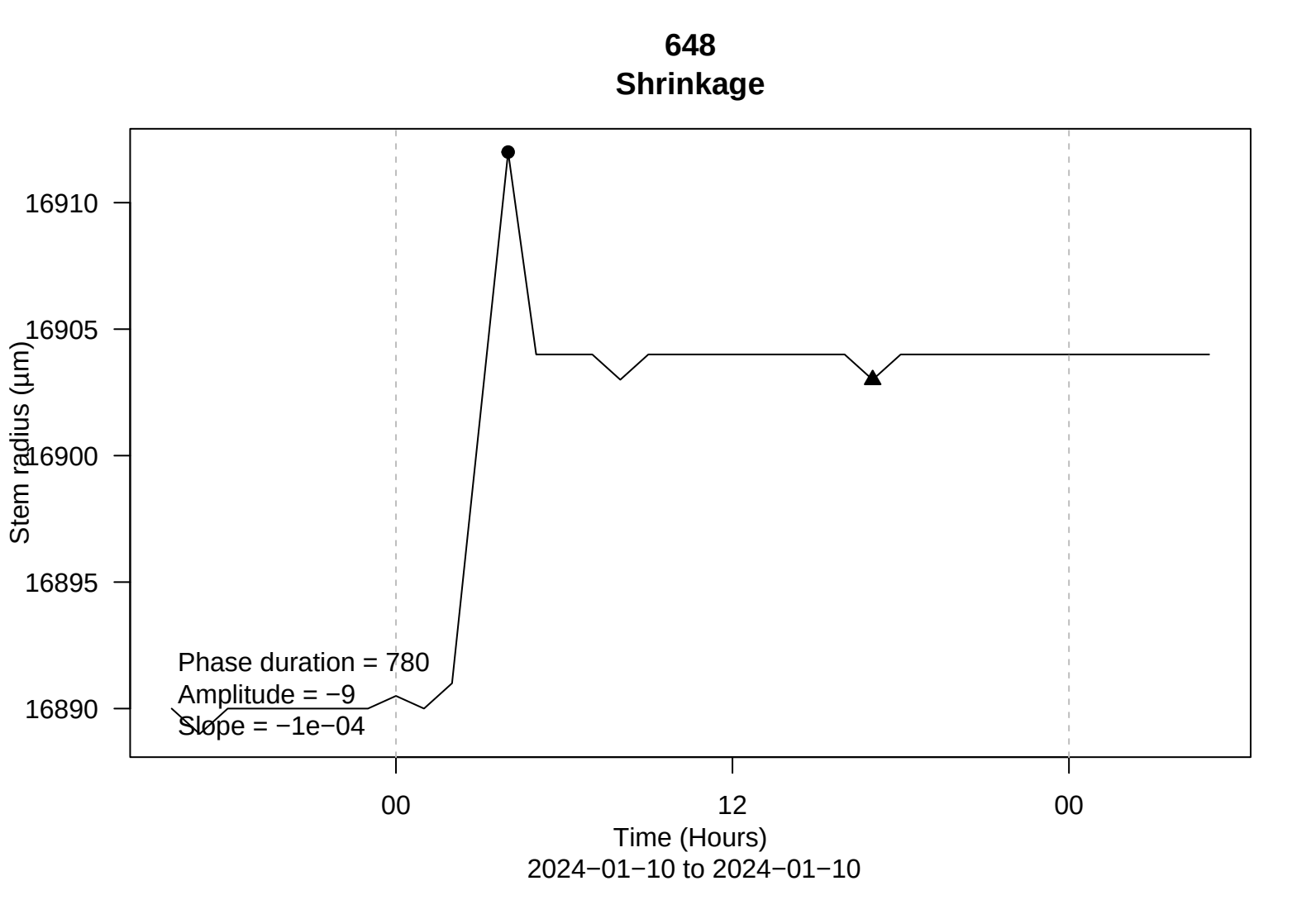

648
Shrinkage
16835.0
16834.5
16834.0
16833.5
16833.0
16832.5
16832.0
Stem radius (µm)
Phase duration = 360
Amplitude = −3
Slope = −1e−04
00
06
12
18
00
Time (Hours)
2024−01−02 to 2024−01−02

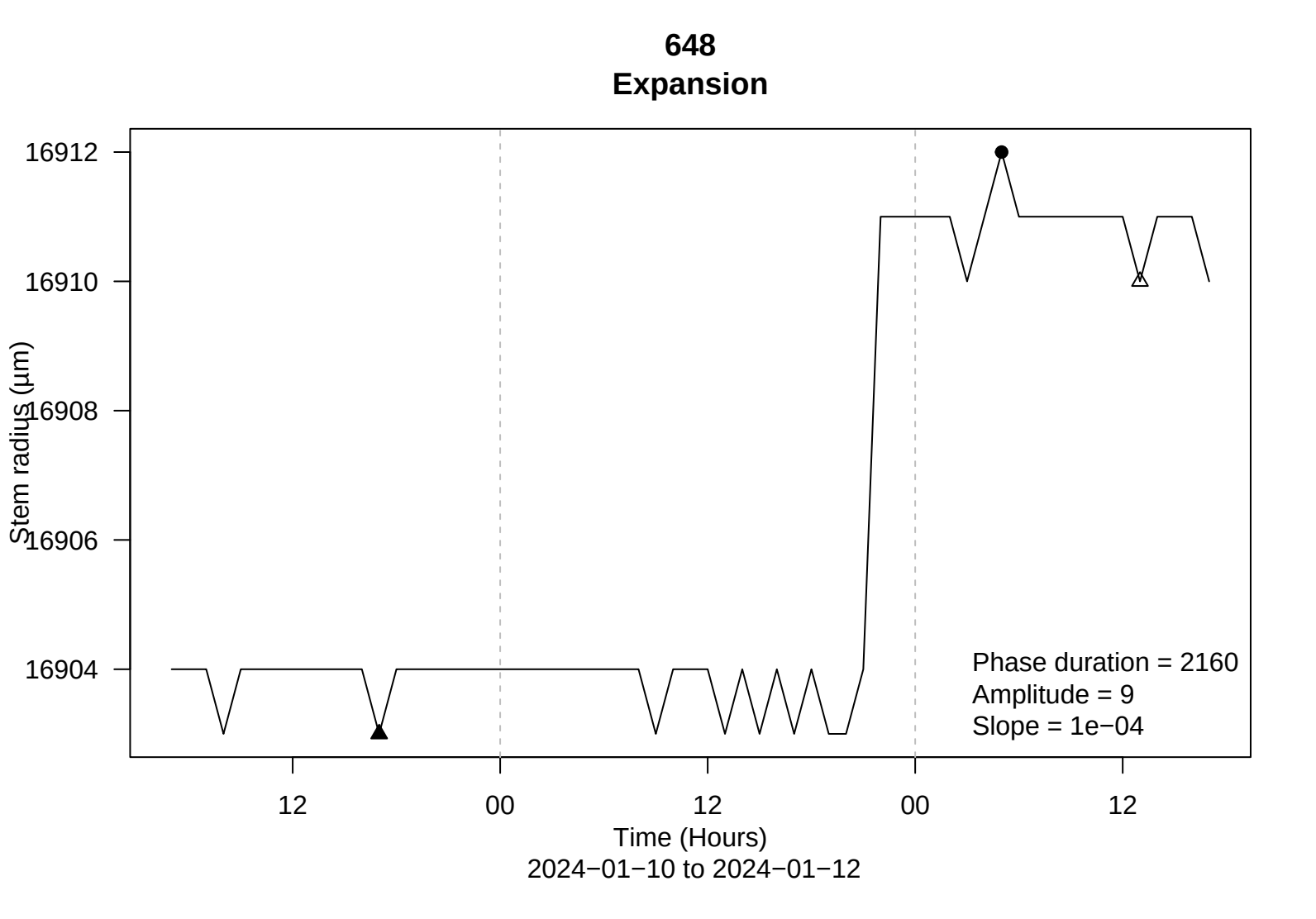

648
Expansion
16835.0
16834.5
16834.0
16833.5
16833.0
16832.5
16832.0
Stem radius (µm)
Phase duration = 720
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2024−01−02 to 2024−01−03

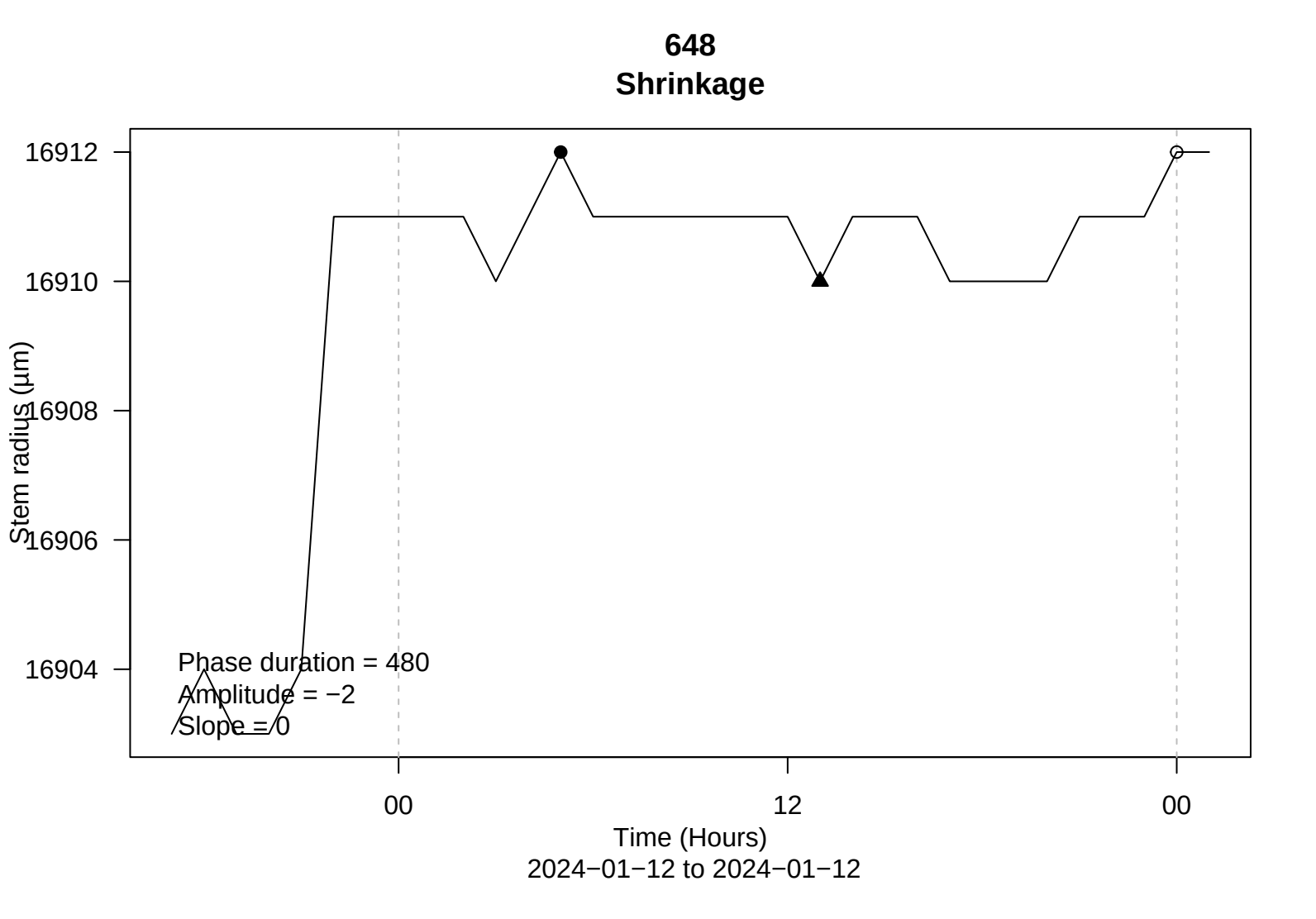

648
Shrinkage
16834.0
16833.5
16833.0
16832.5
16832.0
Stem radius (µm)
Phase duration = 540
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2024−01−03 to 2024−01−03

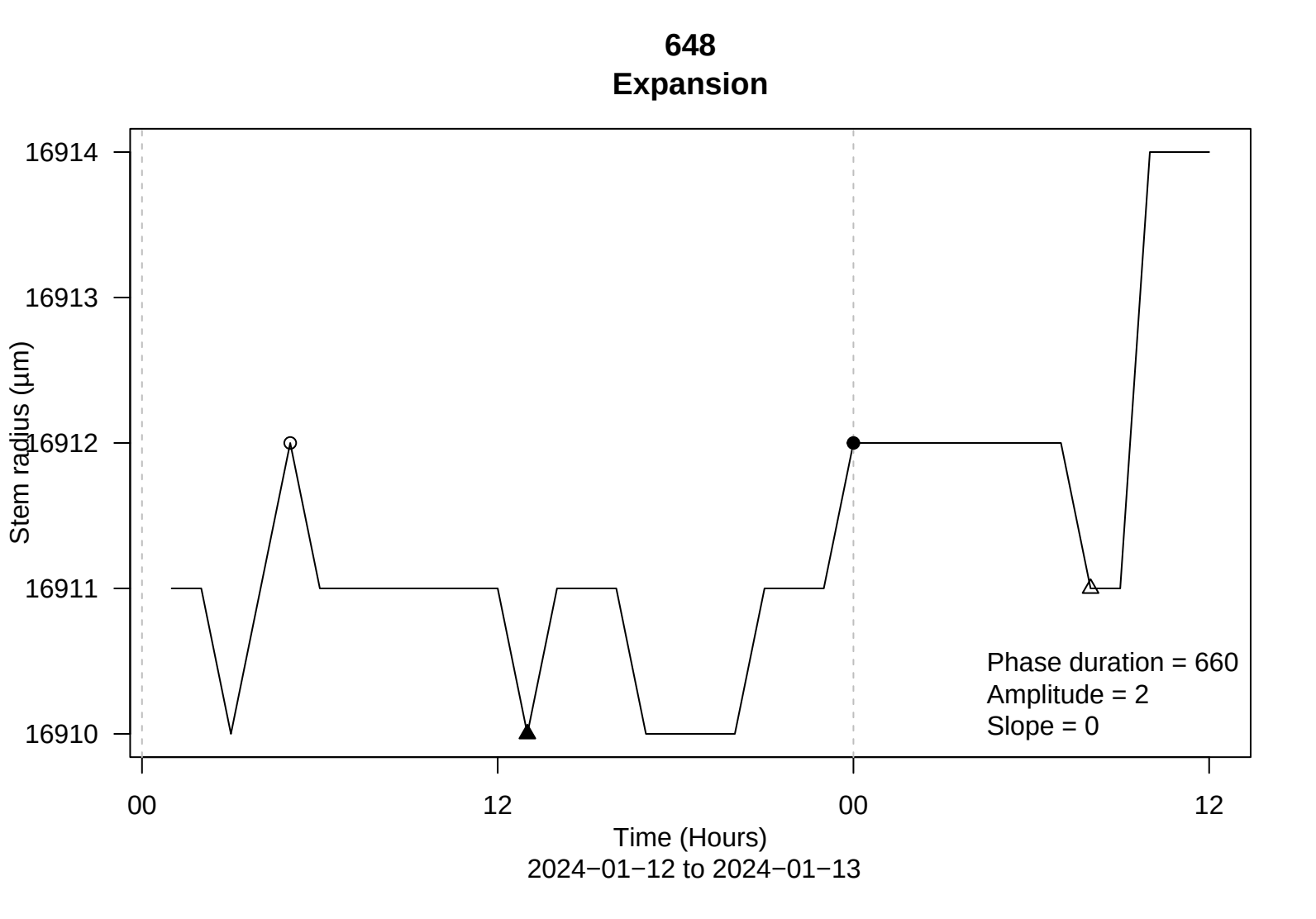

648
Expansion
16834.0
16833.5
16833.0
16832.5
16832.0
Stem radius (µm)
Phase duration = 360
Amplitude = 2
Slope = 1e−04
06
12
18
00
06
Time (Hours)
2024−01−07 to 2024−01−07

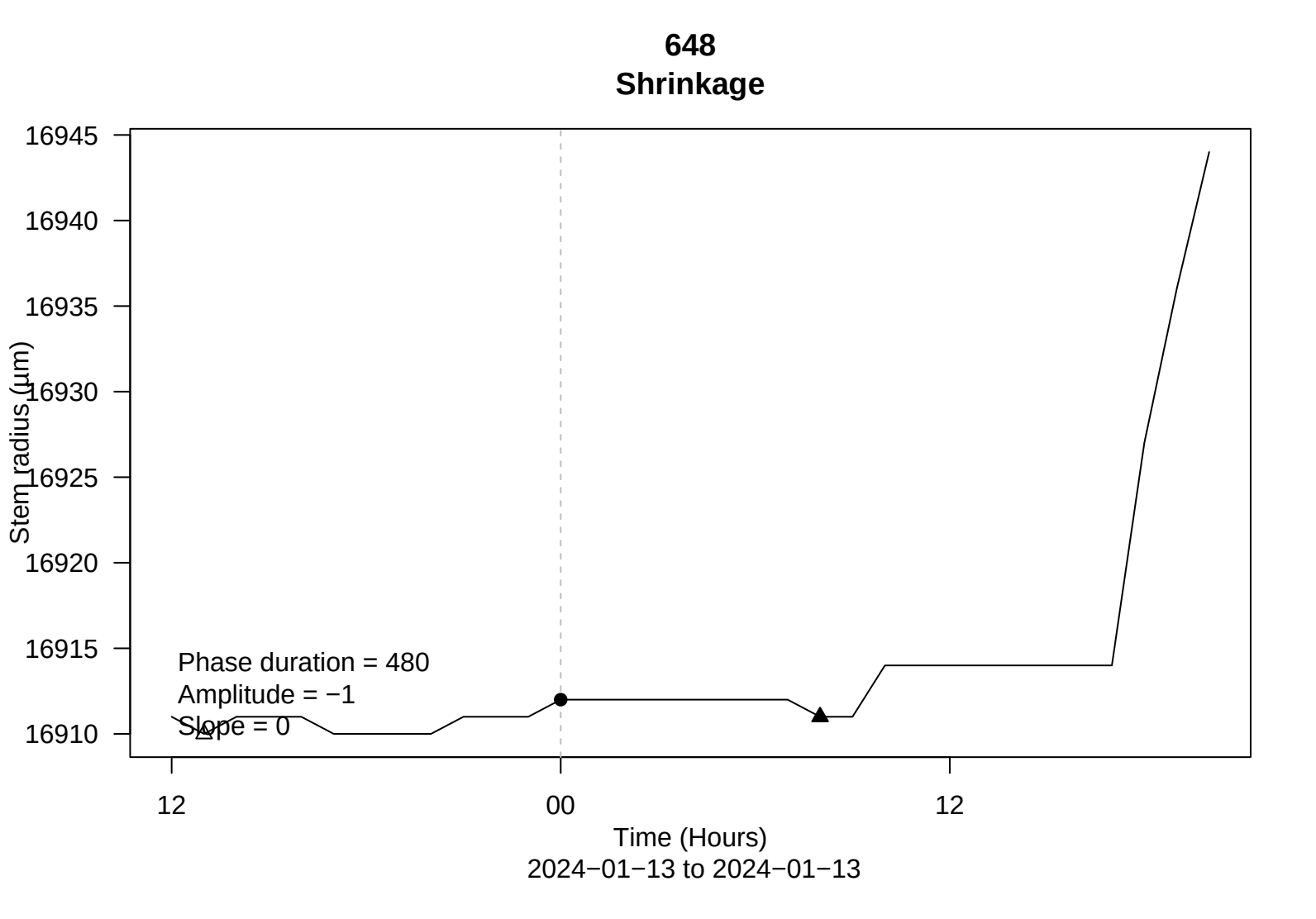

648
Expansion
16900
16880
16860
16840
Stem radius (µm)
Phase duration = 2220
Amplitude = 79
Slope = 6e−04
12
00
12
00
12
Time (Hours)
2024−01−08 to 2024−01−10

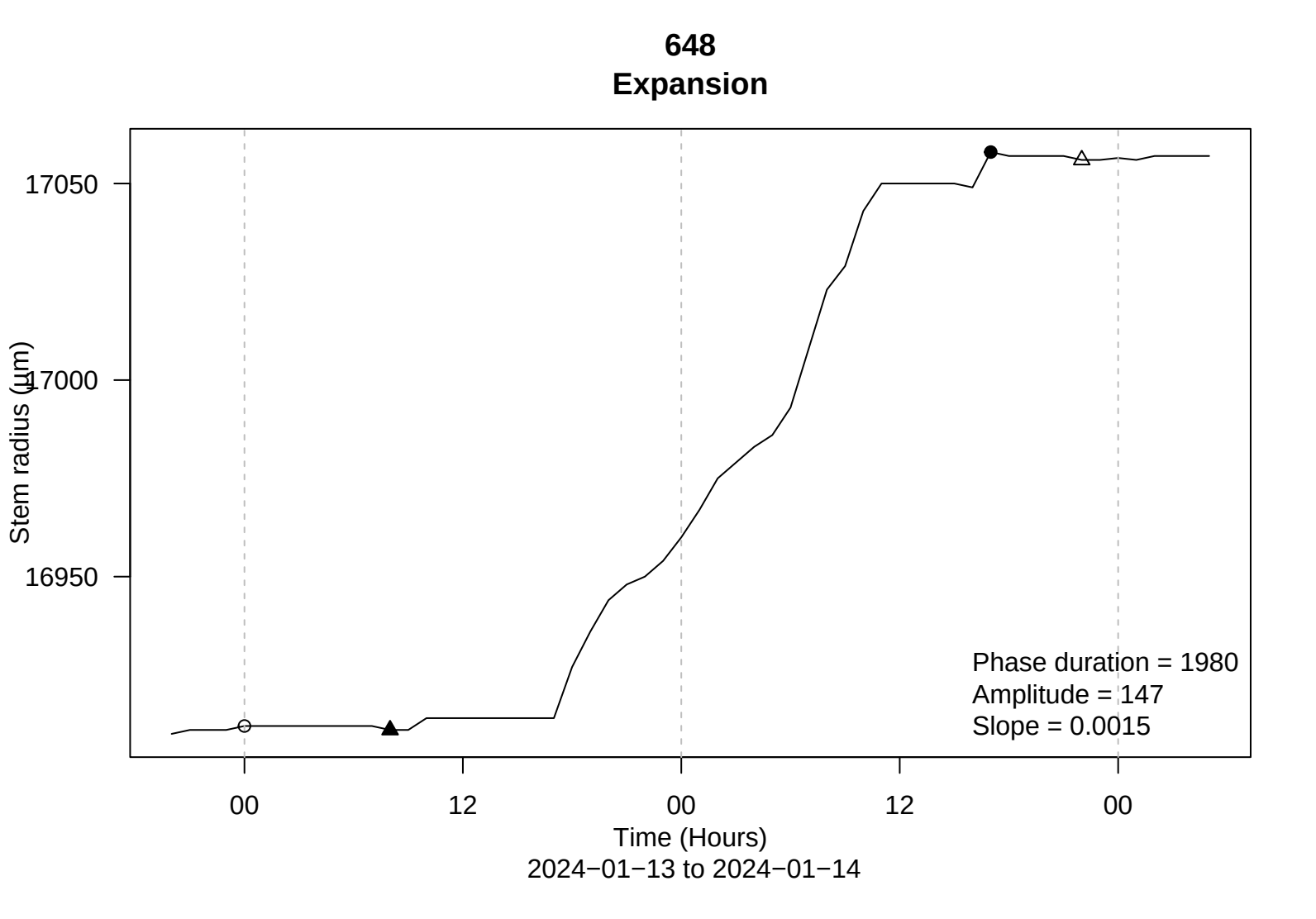

648
Shrinkage
16910
16905
16900
16895
16890
Stem radius (µm)
Phase duration = 780
Amplitude = −9
Slope = −1e−04
00
12
00
Time (Hours)
2024−01−10 to 2024−01−10

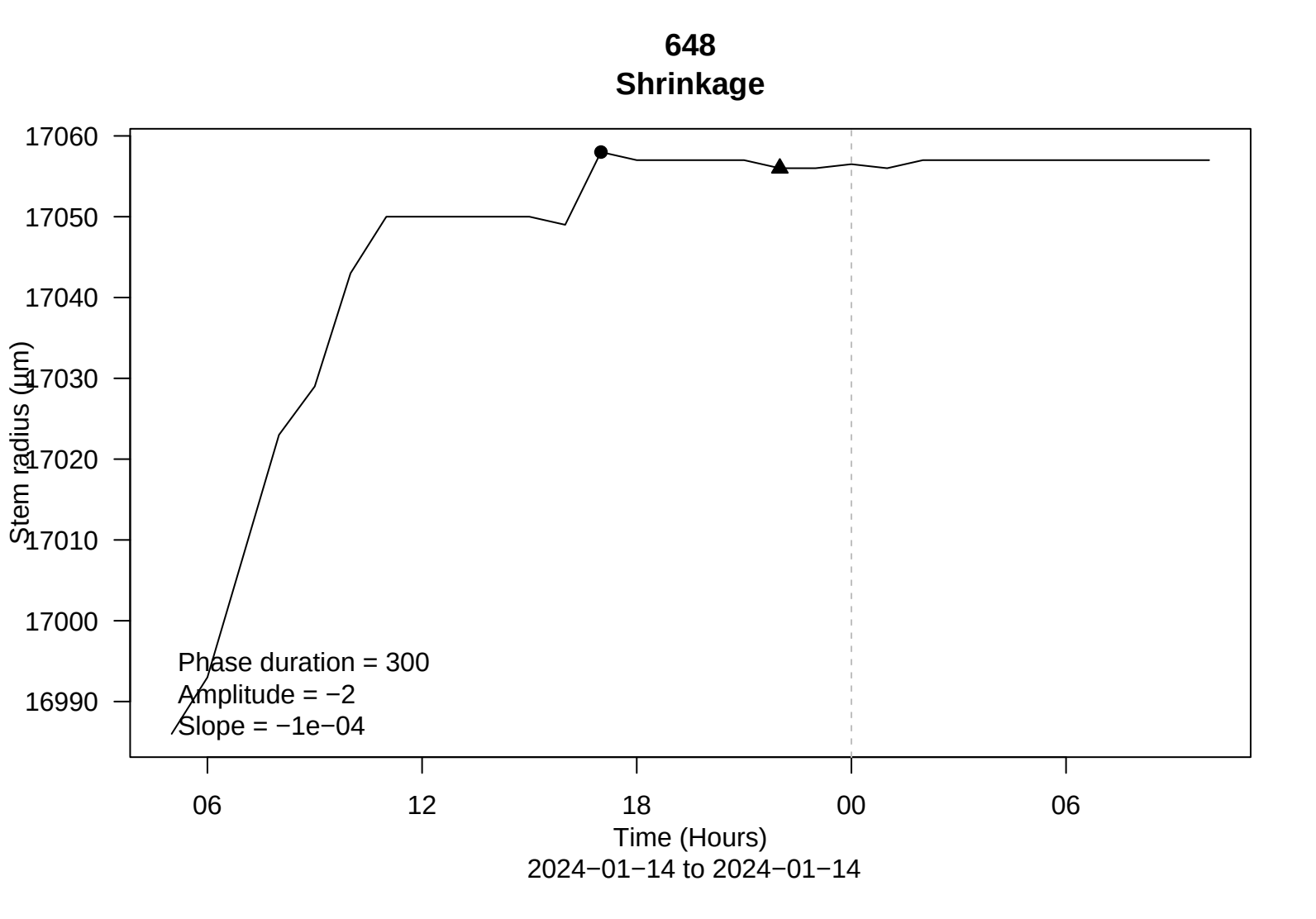

648
Expansion
16912
16910
16908
16906
16904
Stem radius (µm)
Phase duration = 2160
Amplitude = 9
Slope = 1e−04
12
00
12
00
12
Time (Hours)
2024−01−10 to 2024−01−12

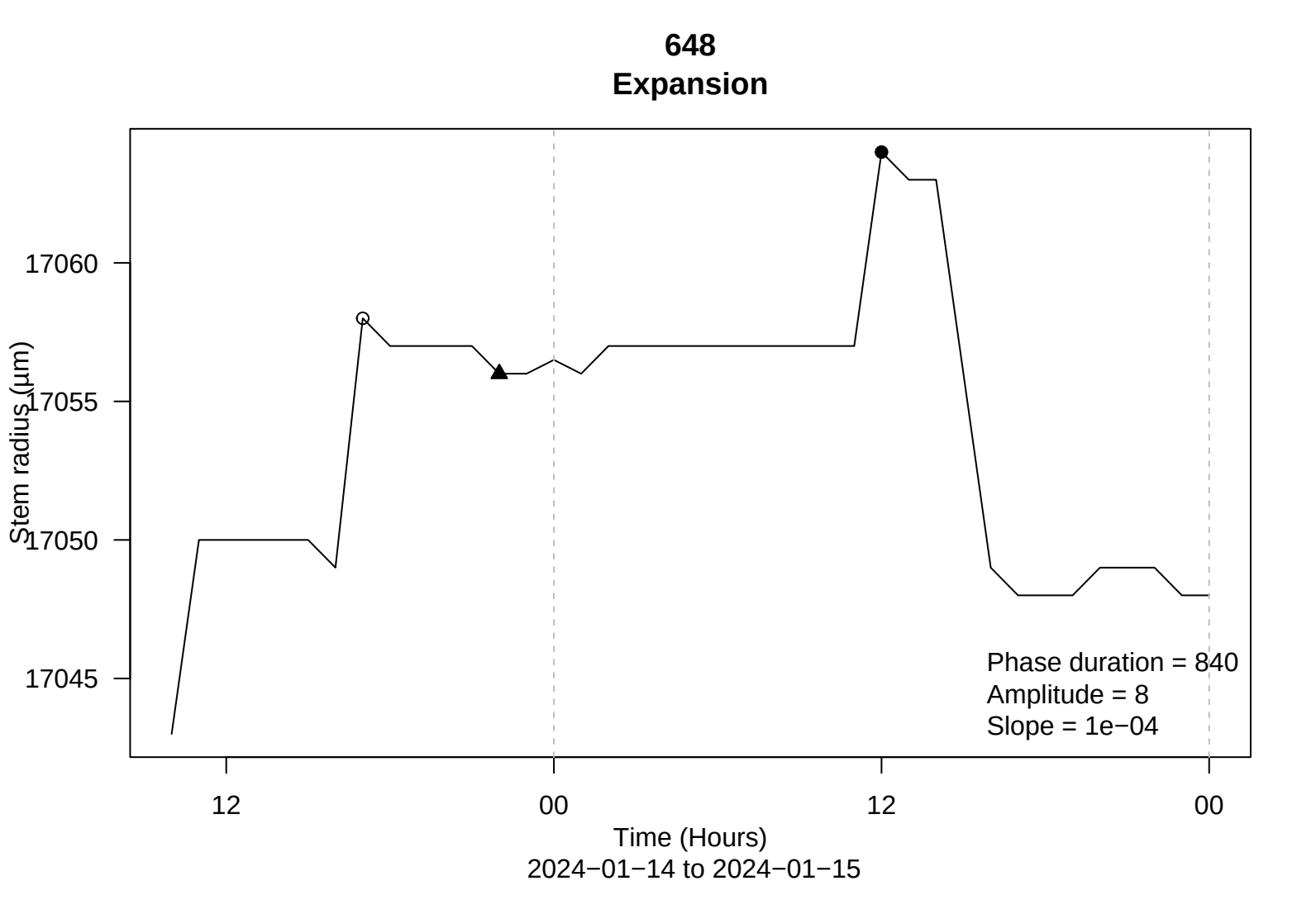

648
Shrinkage
16912
16910
16908
16906
16904
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2024−01−12 to 2024−01−12

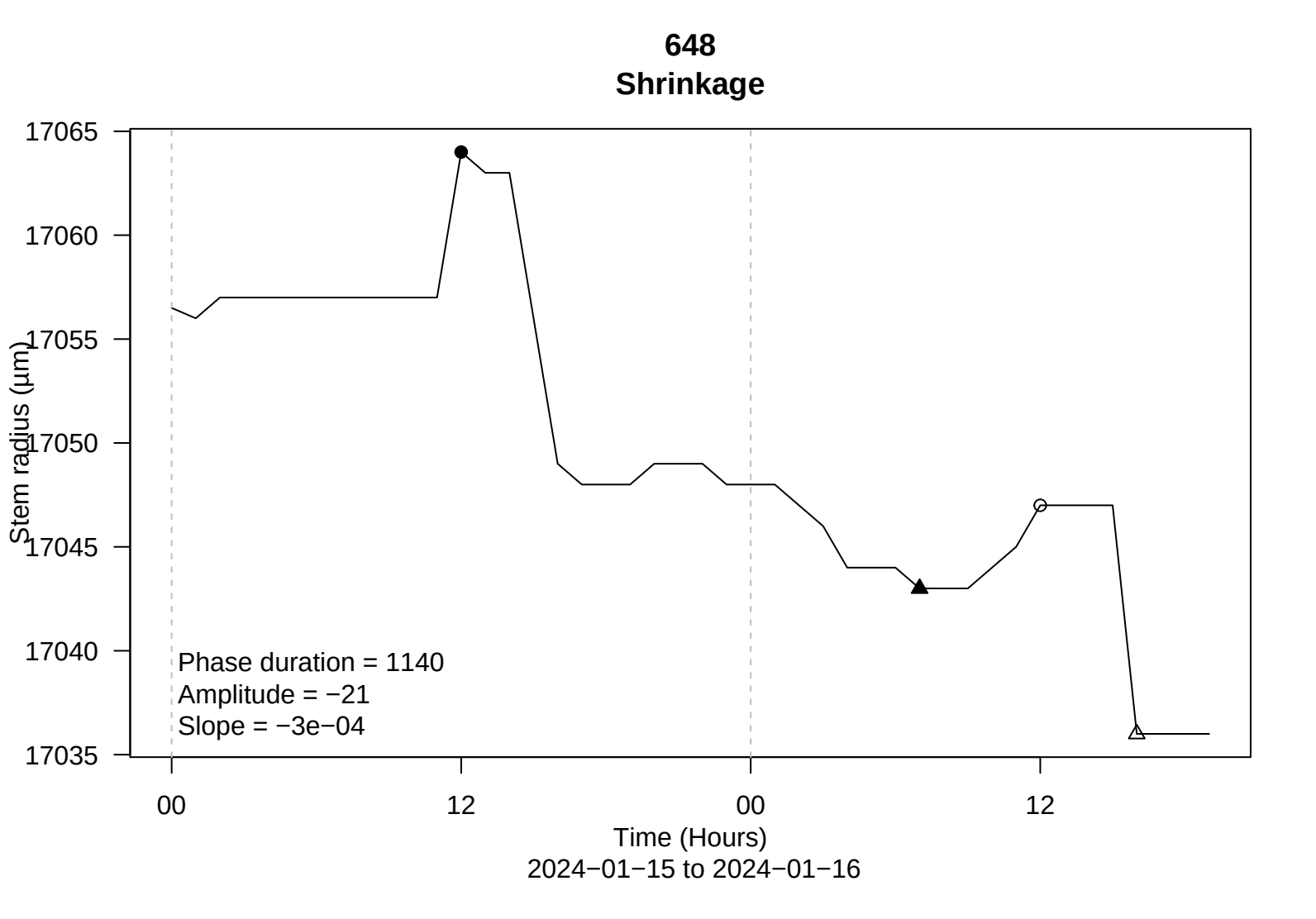

648
Expansion
16914
16913
16912
16911
16910
Stem radius (µm)
Phase duration = 660
Amplitude = 2
Slope = 0
00
12
00
12
Time (Hours)
2024−01−12 to 2024−01−13

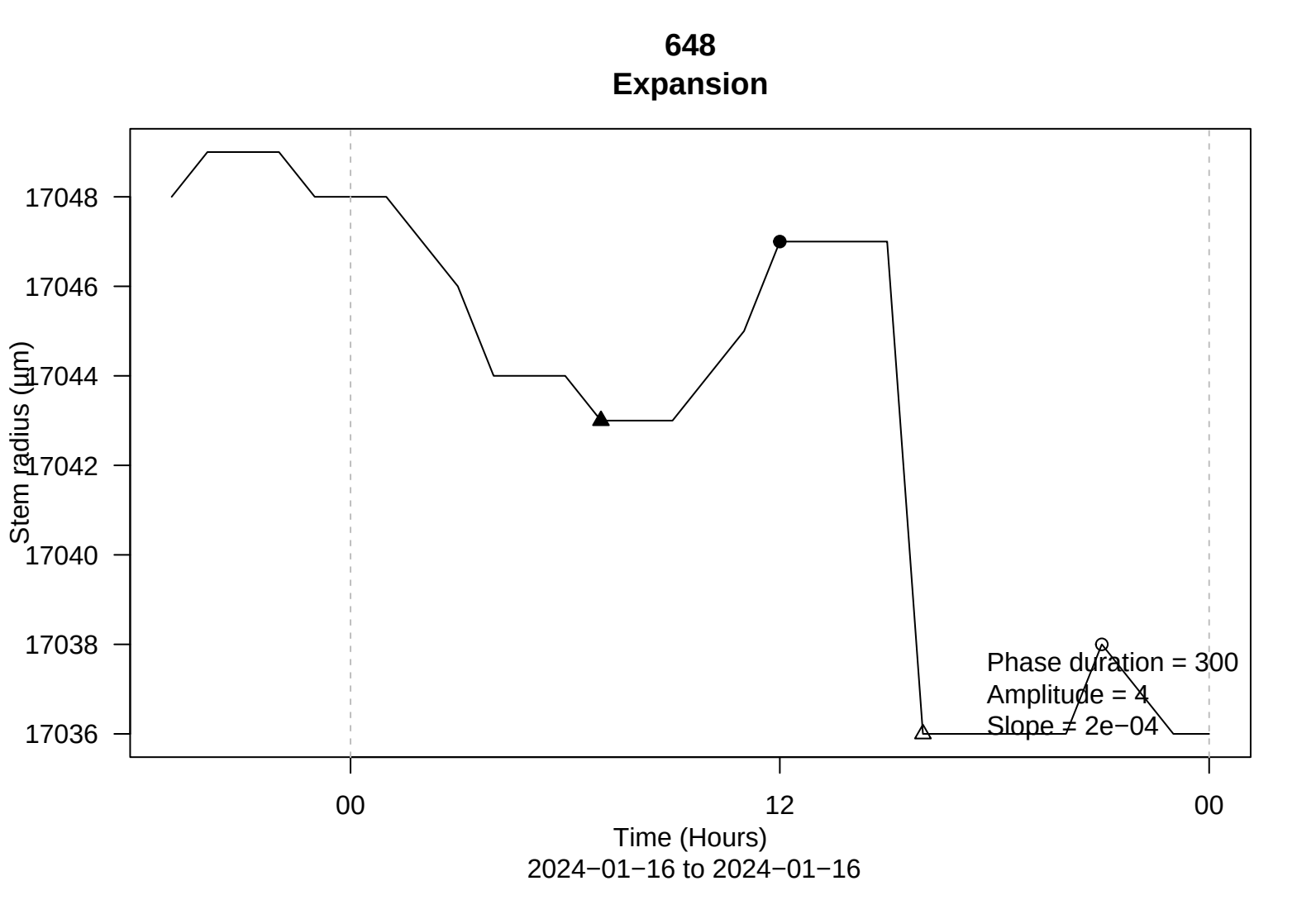

648
Shrinkage
16945
16940
16935
16930
16925
16920
16915
16910
Stem radius (µm)
Phase duration = 480
Amplitude = −1
Slope = 0
12
00
12
Time (Hours)
2024−01−13 to 2024−01−13

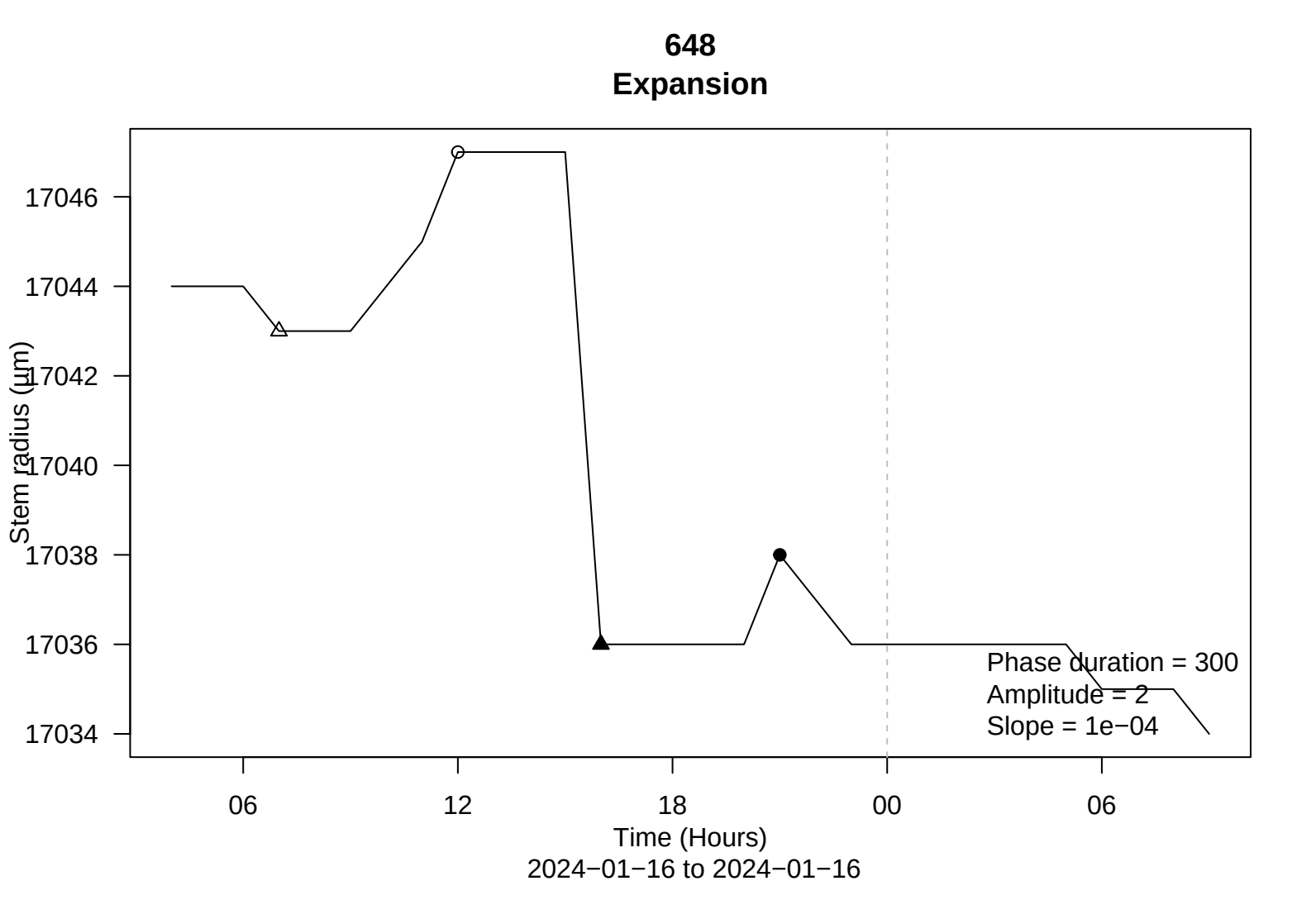

648
Expansion
17050
17000
16950
Stem radius (µm)
Phase duration = 1980
Amplitude = 147
Slope = 0.0015
00
12
00
12
00
Time (Hours)
2024−01−13 to 2024−01−14

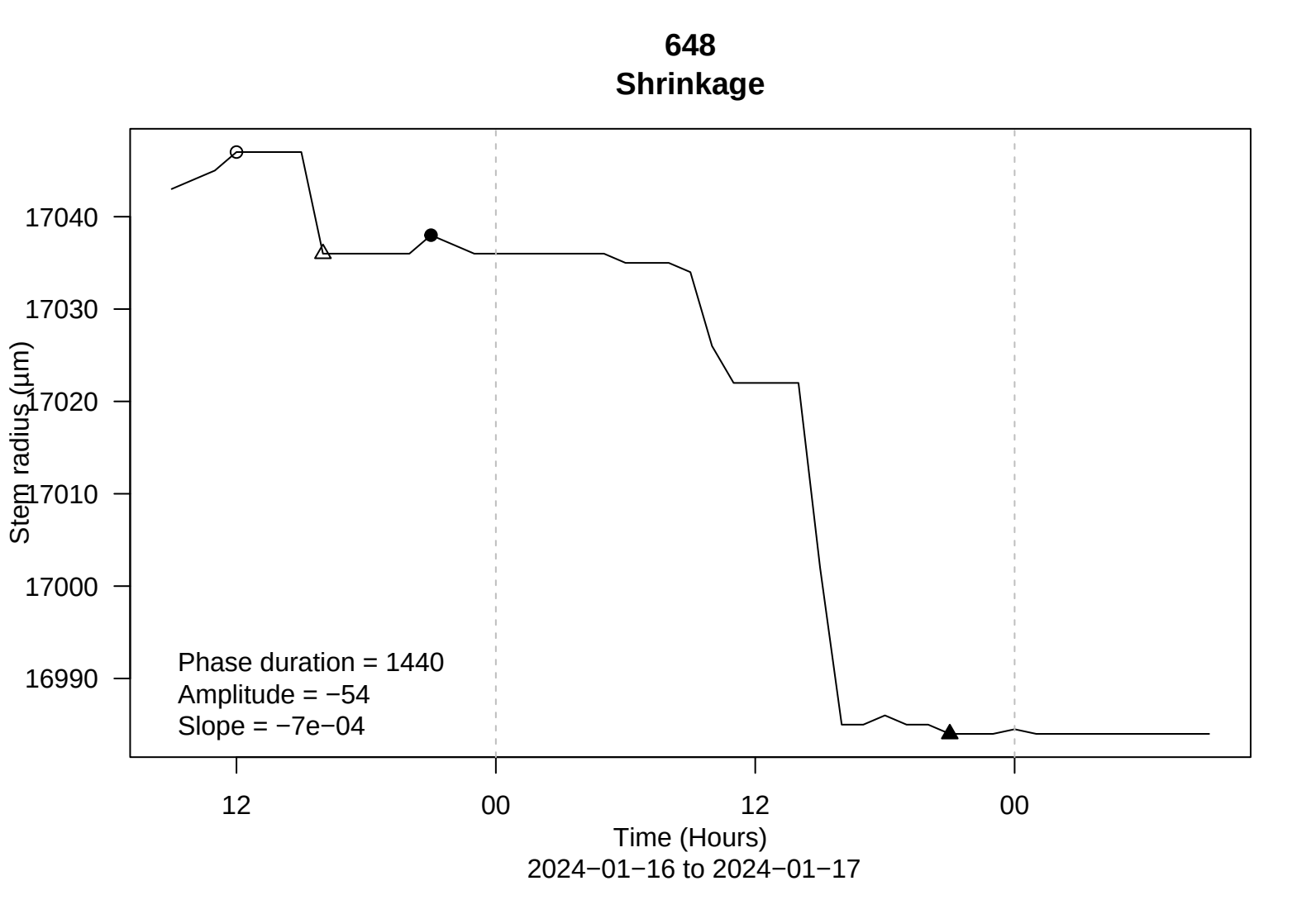

648
Shrinkage
17060
17050
17040
17030
17020
17010
17000
16990
Stem radius (µm)
Phase duration = 300
Amplitude = −2
Slope = −1e−04
06
12
18
00
06
Time (Hours)
2024−01−14 to 2024−01−14

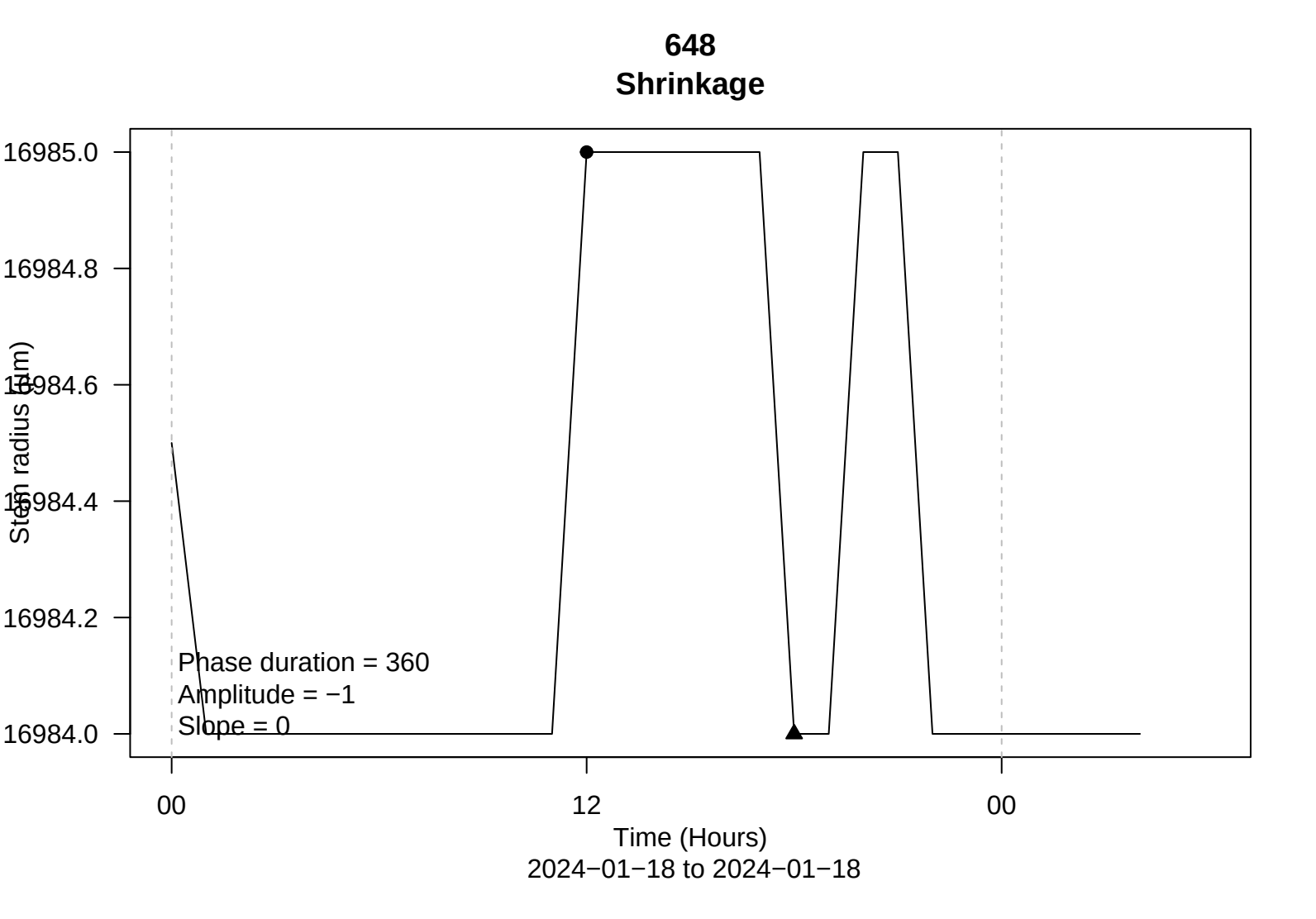

648
Expansion
17060
17055
17050
17045
Stem radius (µm)
Phase duration = 840
Amplitude = 8
Slope = 1e−04
12
00
12
00
Time (Hours)
2024−01−14 to 2024−01−15

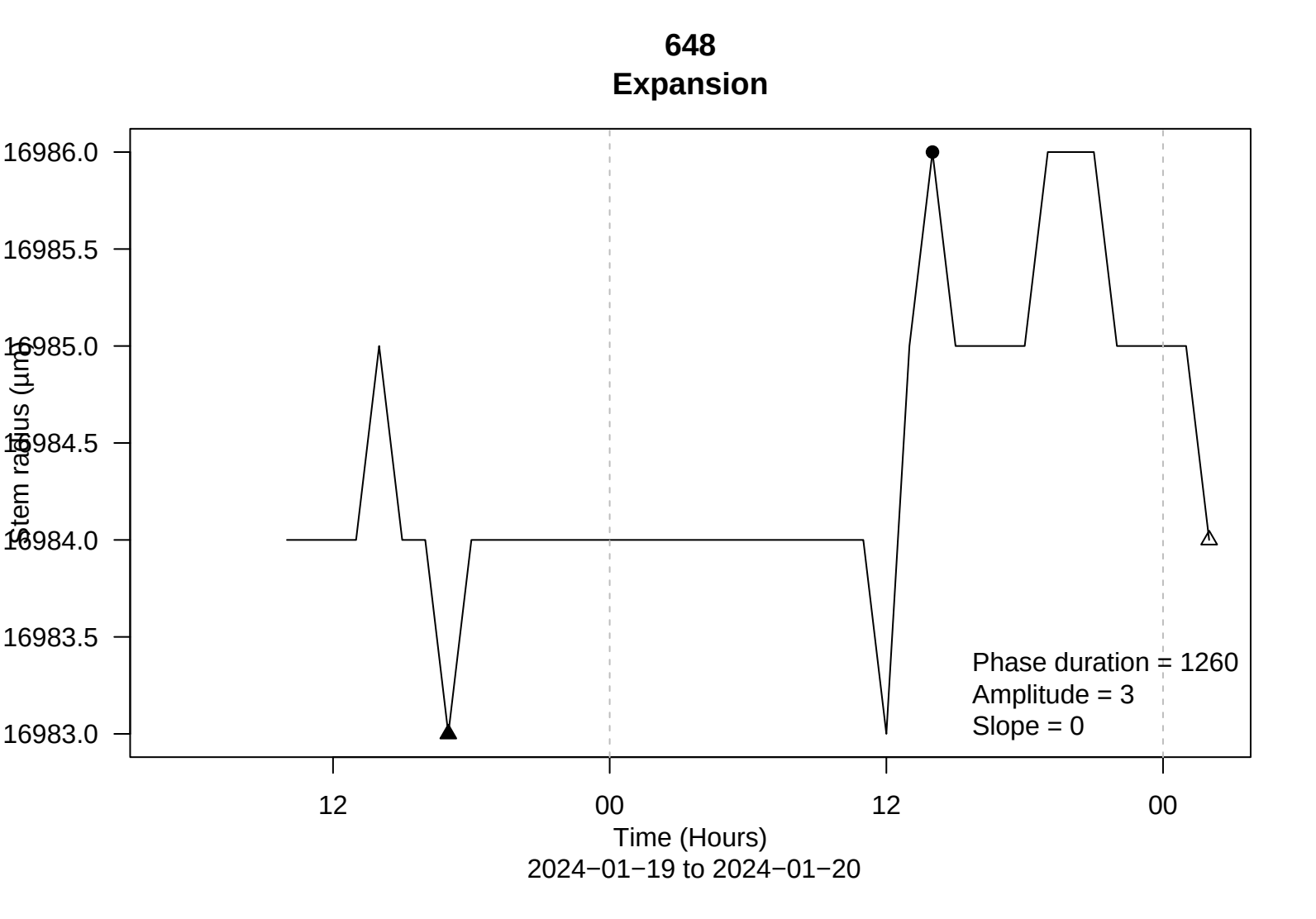

648
Shrinkage
17065
17060
17055
17050
17045
17040
17035
Stem radius (µm)
Phase duration = 1140
Amplitude = −21
Slope = −3e−04
00
12
00
12
Time (Hours)
2024−01−15 to 2024−01−16

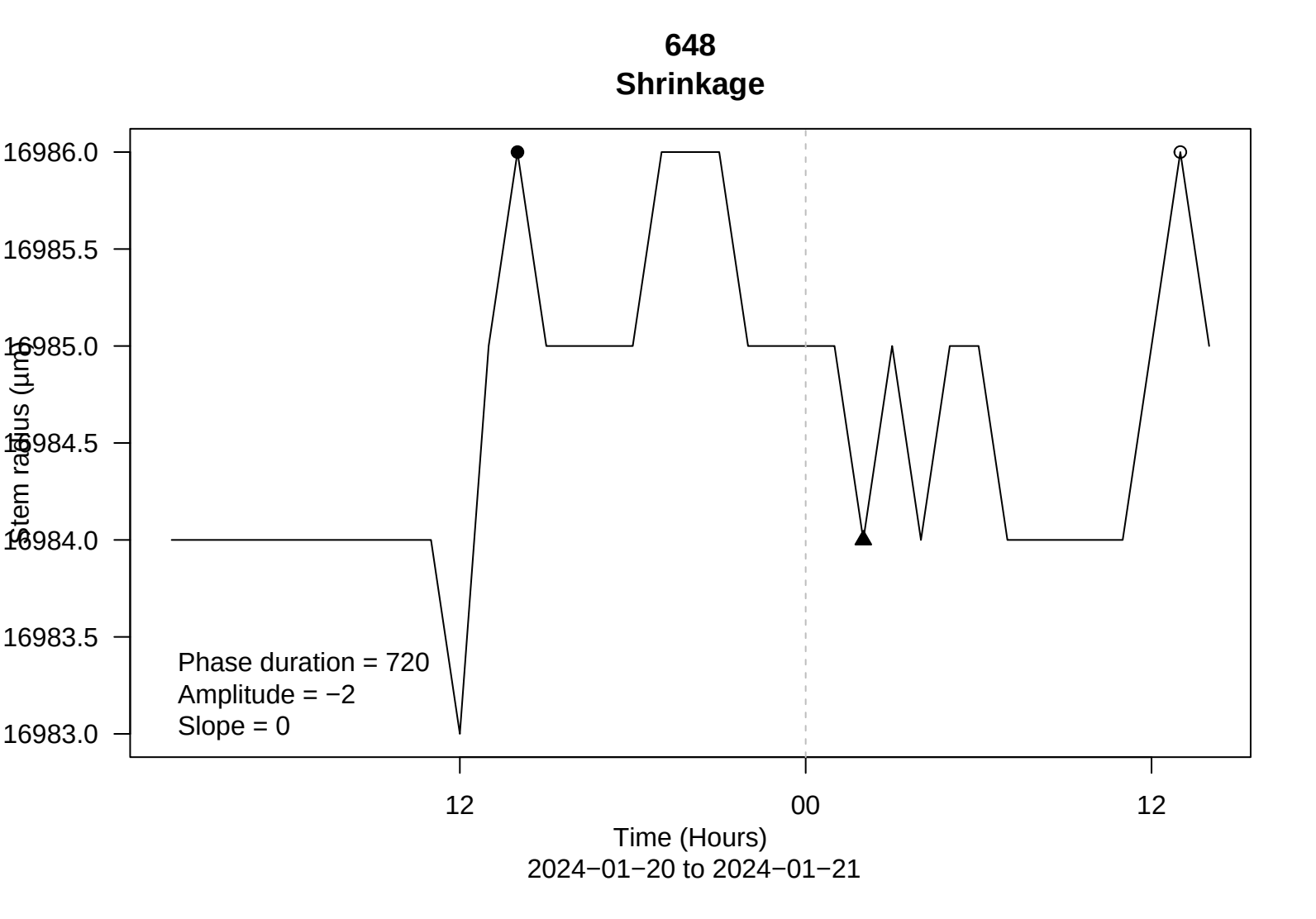

648
Expansion
17048
17046
17044
17042
17040
17038
17036
Stem radius (µm)
Phase duration = 300
Amplitude = 4
Slope = 2e−04
00
12
00
Time (Hours)
2024−01−16 to 2024−01−16

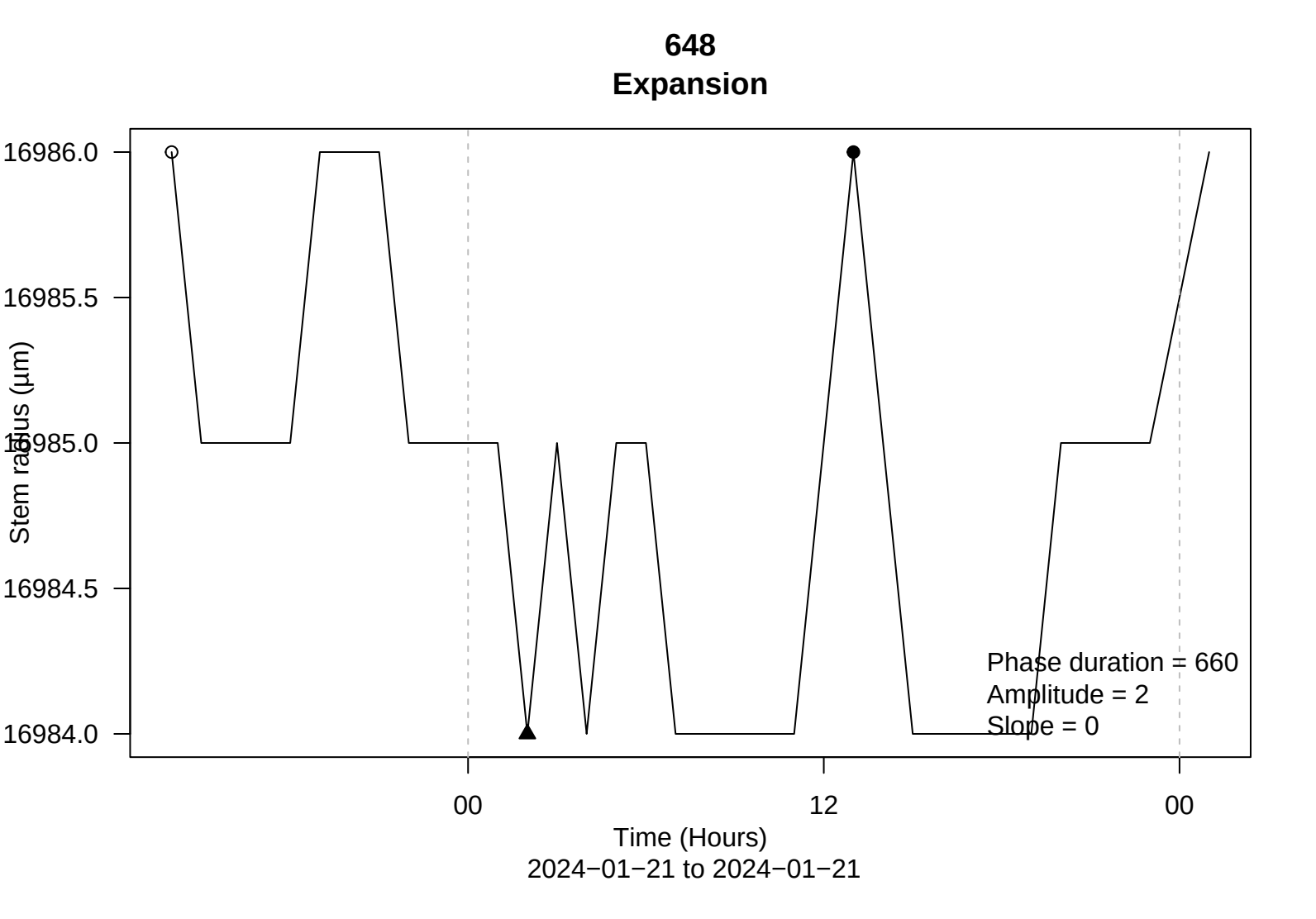

648
Expansion
17046
17044
17042
17040
17038
17036
17034
Stem radius (µm)
Phase duration = 300
Amplitude = 2
Slope = 1e−04
06
12
18
00
06
Time (Hours)
2024−01−16 to 2024−01−16

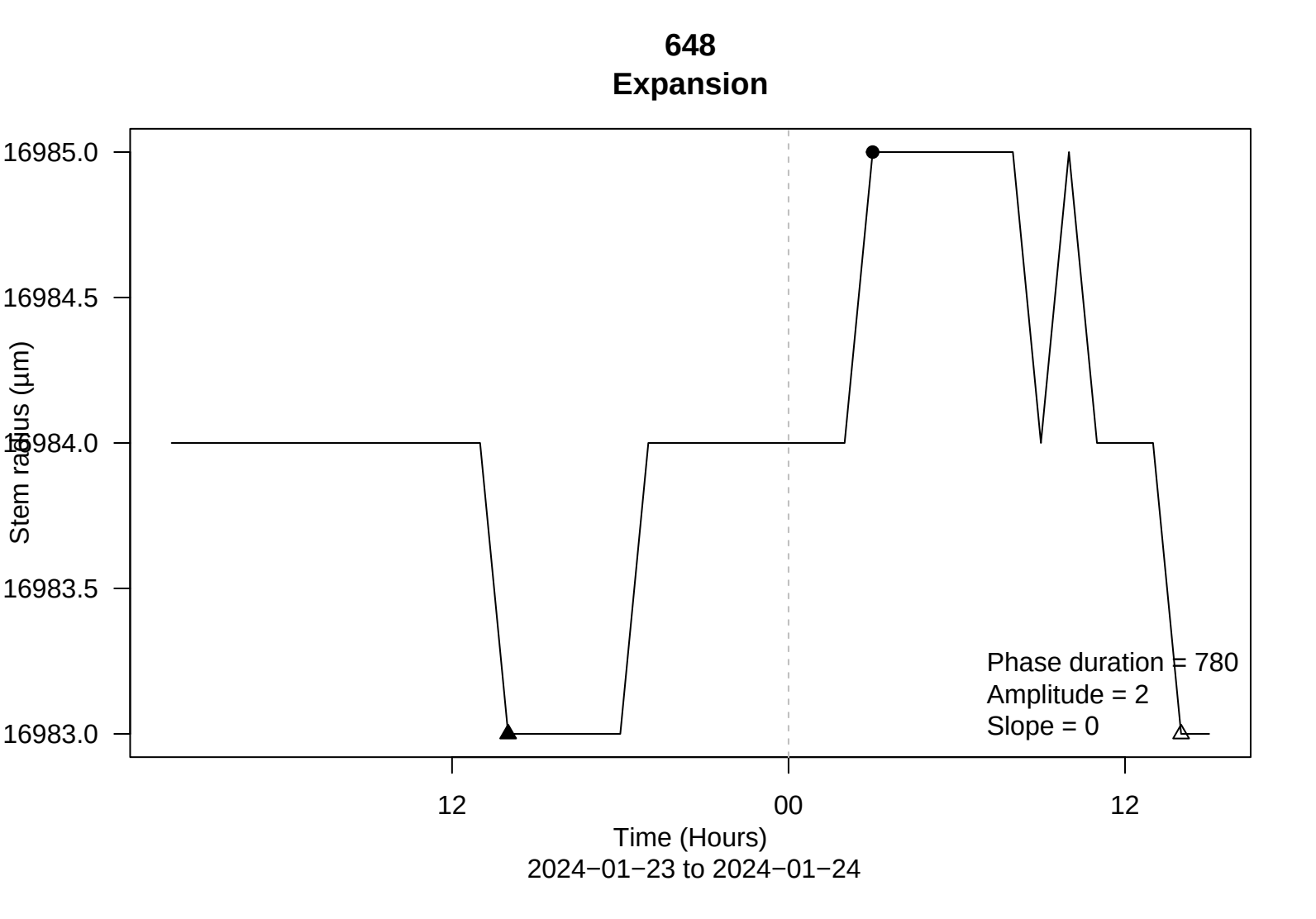

648
Shrinkage
17040
17030
17020
17010
17000
16990
Stem radius (µm)
Phase duration = 1440
Amplitude = −54
Slope = −7e−04
12
00
12
00
Time (Hours)
2024−01−16 to 2024−01−17

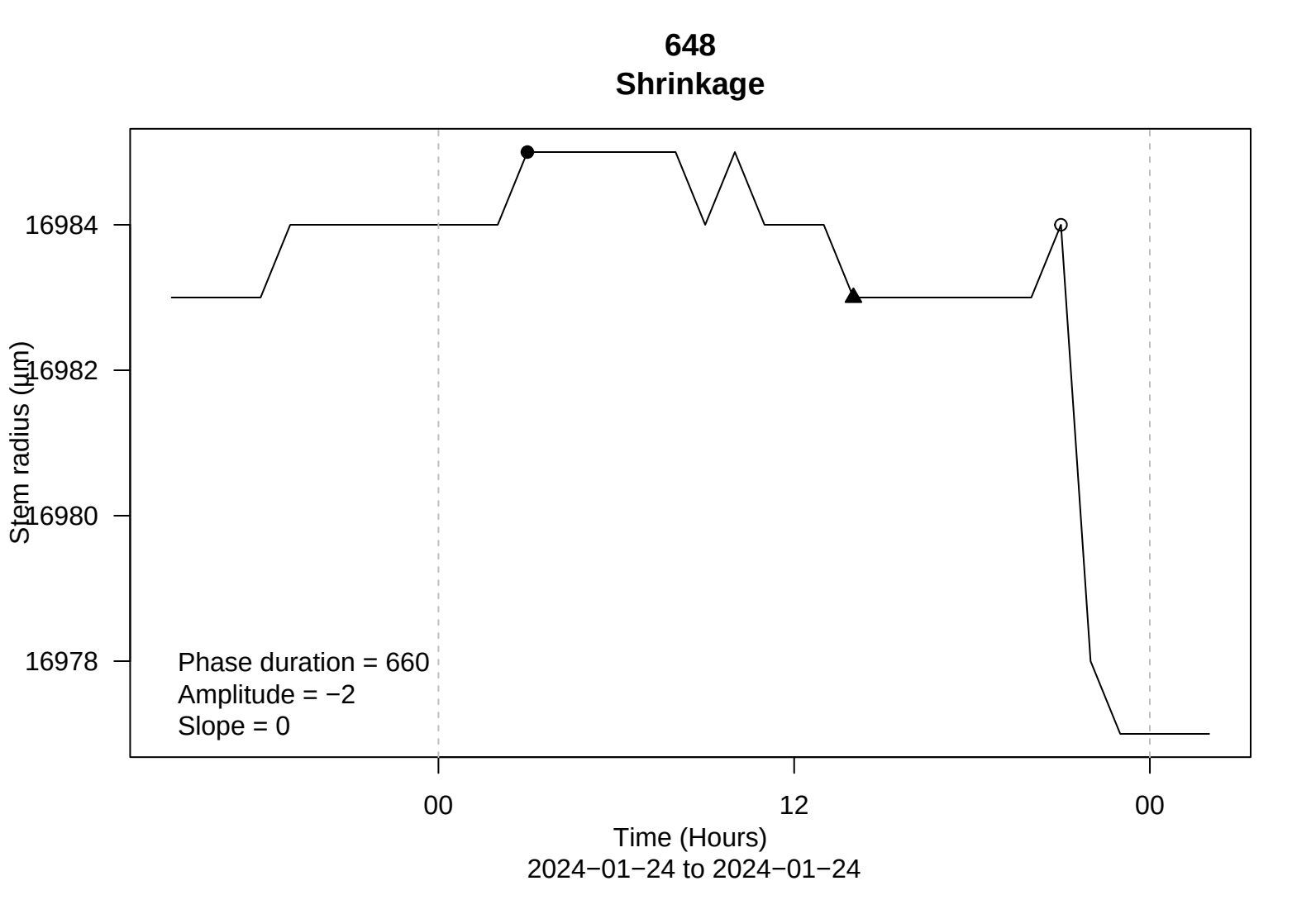

648
Shrinkage
16985.0
16984.8
16984.6
16984.4
16984.2
16984.0
Stem radius (um)
Phase duration = 360
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2024−01−18 to 2024−01−18

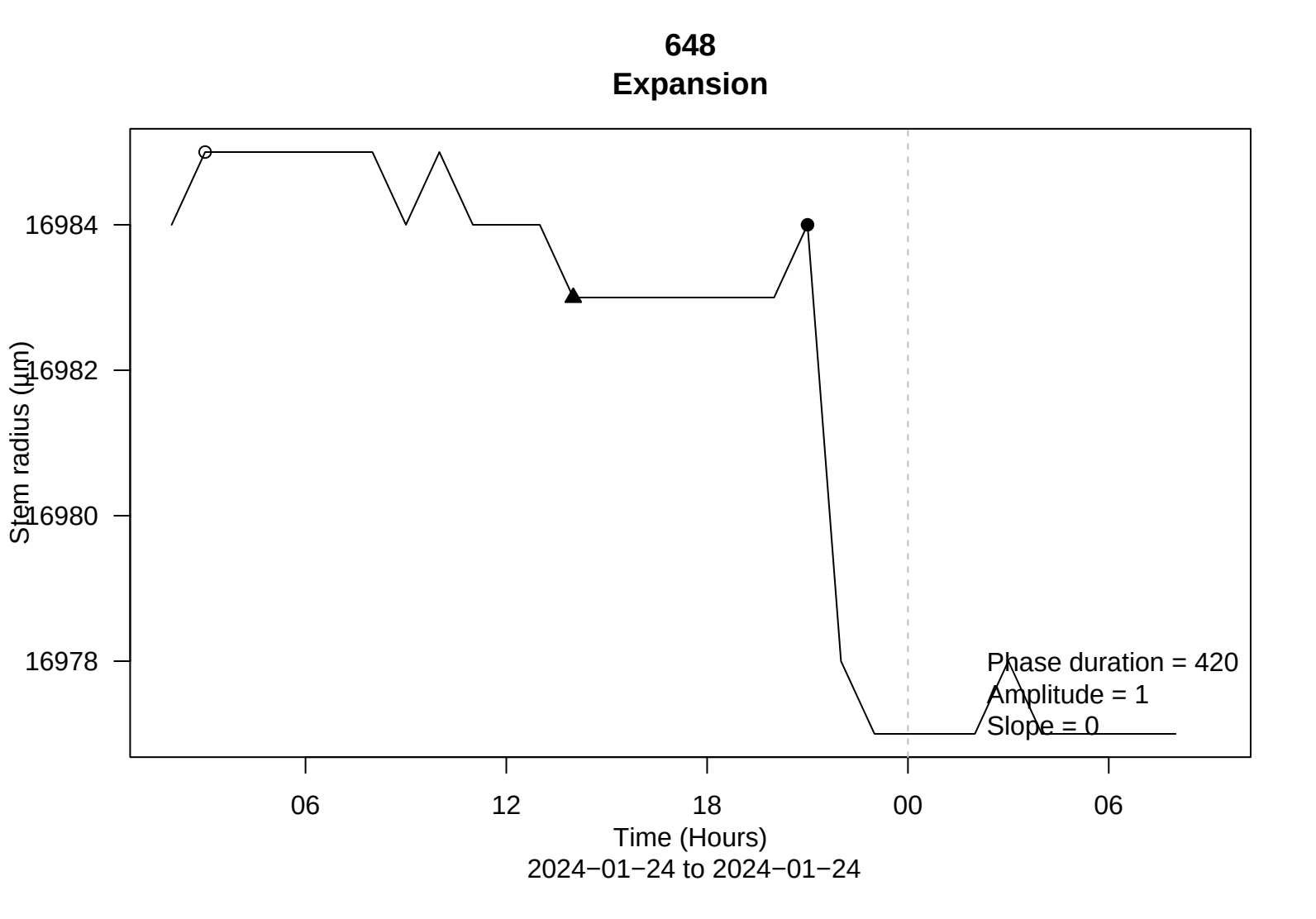

648
Expansion
16986.0
16985.5
16985.0
16984.5
16984.0
16983.5
16983.0
Stem radius (µm)
Phase duration = 1260
Amplitude = 3
Slope = 0
12
00
12
00
Time (Hours)
2024−01−19 to 2024−01−20

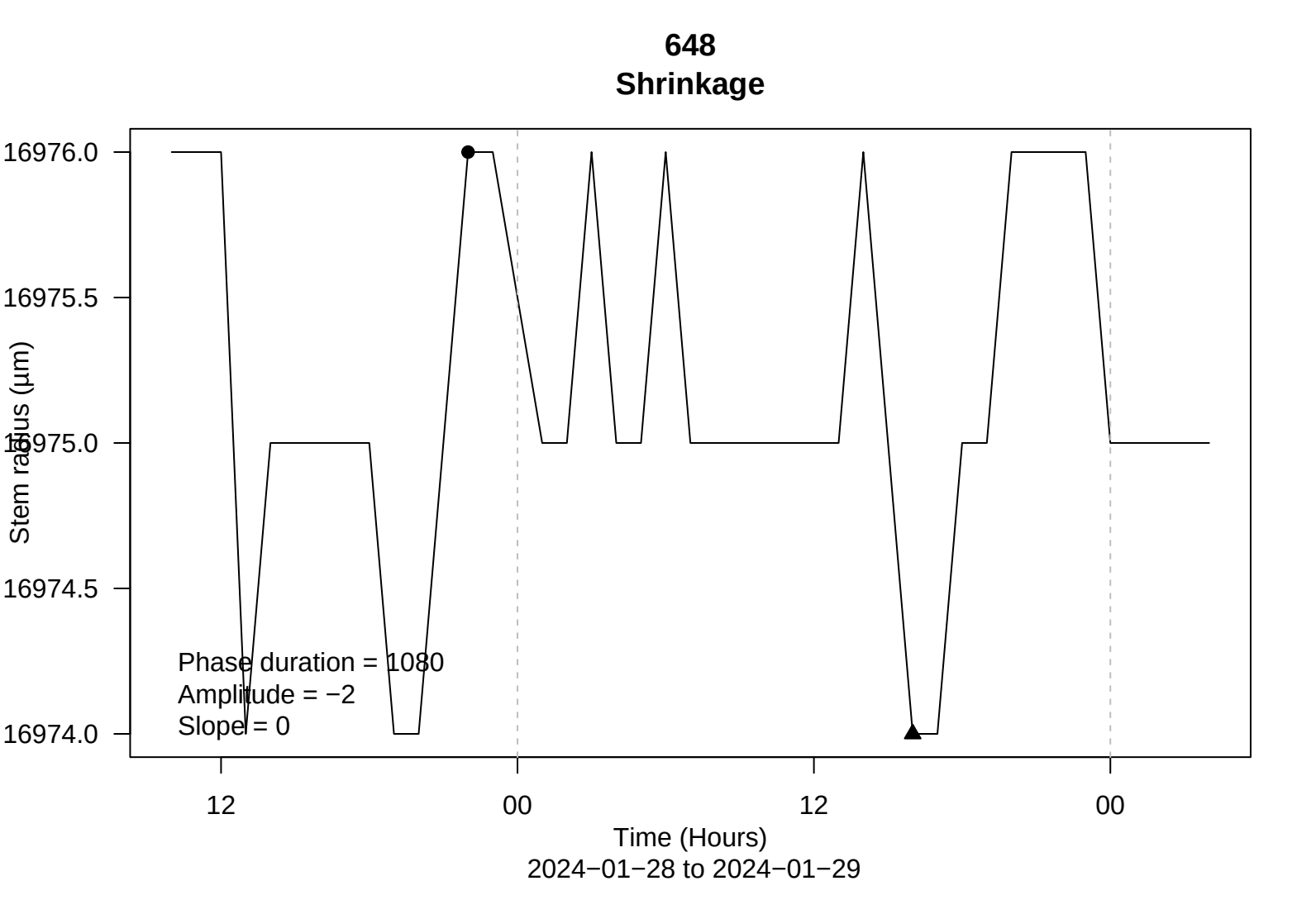

648
Shrinkage
16986.0
16985.5
16985.0
16984.5
16984.0
16983.5
16983.0
Stem radius (µm)
Phase duration = 720
Amplitude = −2
Slope = 0
12
00
12
Time (Hours)
2024−01−20 to 2024−01−21

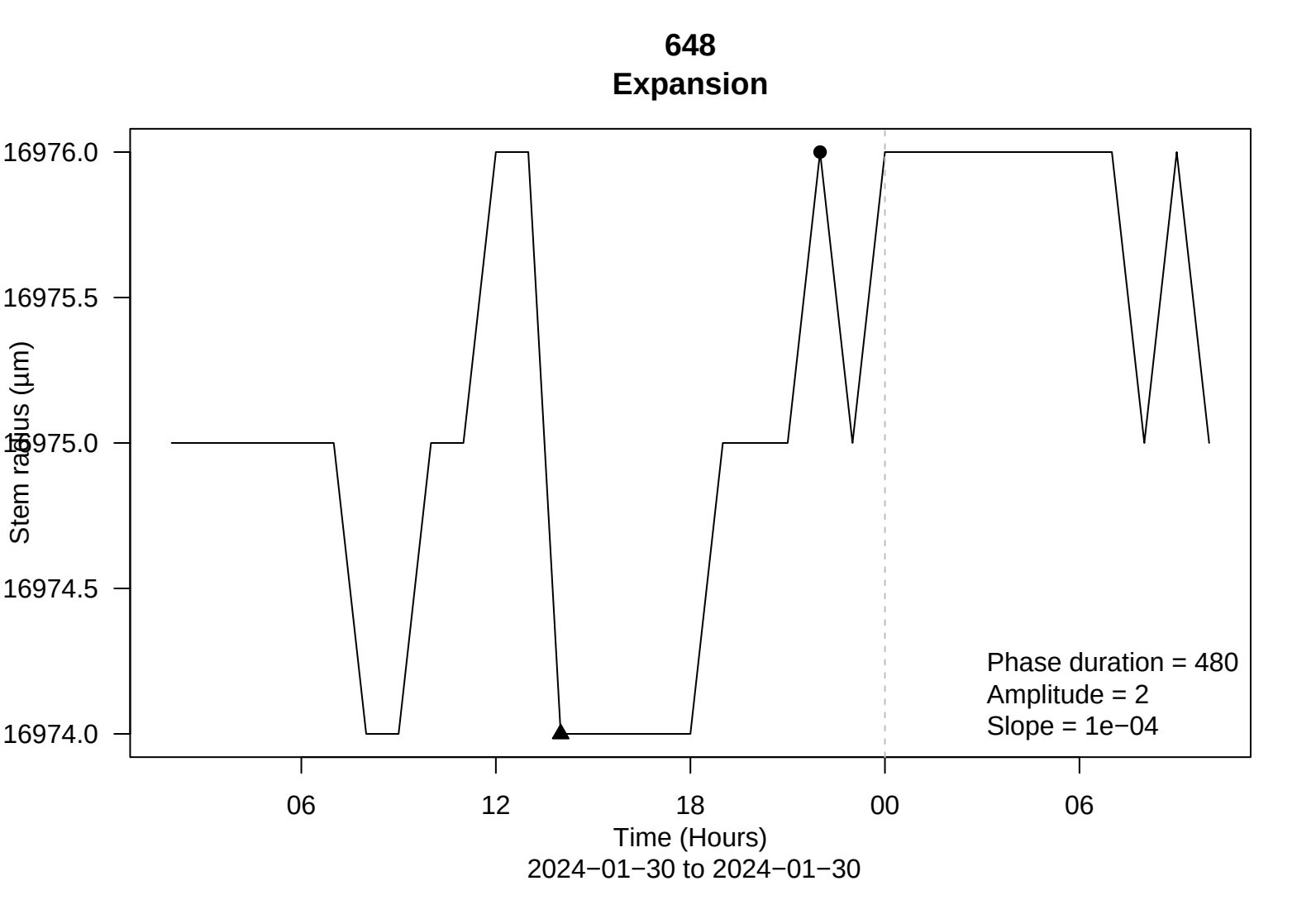

648
Expansion
16986.0
16985.5
16985.0
16984.5
16984.0
Stem radius (µm)
Phase duration = 660
Amplitude = 2
Slope = 0
00
12
00
Time (Hours)
2024−01−21 to 2024−01−21

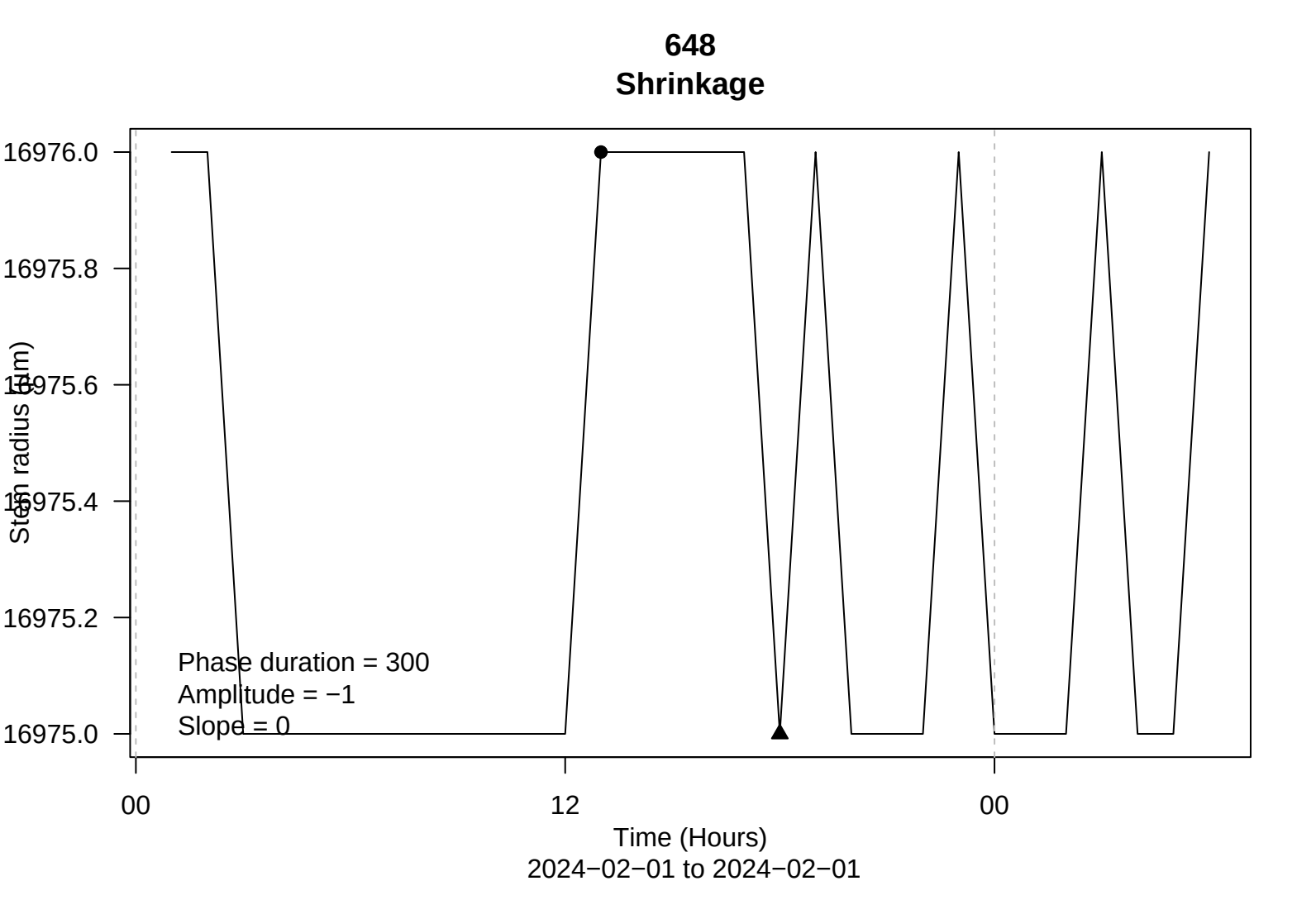

648
Expansion
16985.0
16984.5
16984.0
16983.5
16983.0
Stem radius (µm)
Phase duration = 780
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2024−01−23 to 2024−01−24

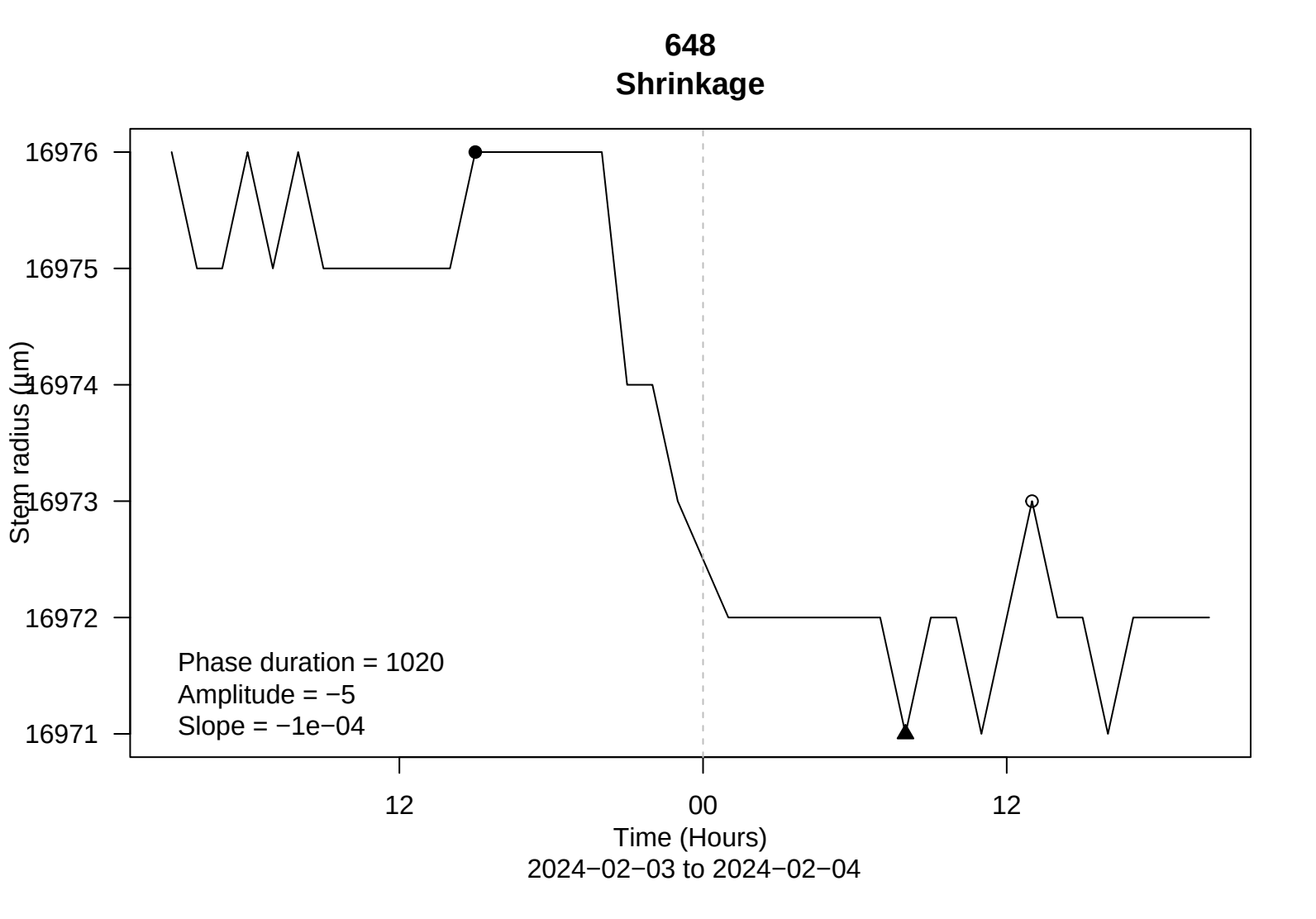

648
Shrinkage
16984
16982
16980
16978
Stem radius (µm)
Phase duration = 660
Amplitude = −2
Slope = 0
00
12
00
Time (Hours)
2024−01−24 to 2024−01−24

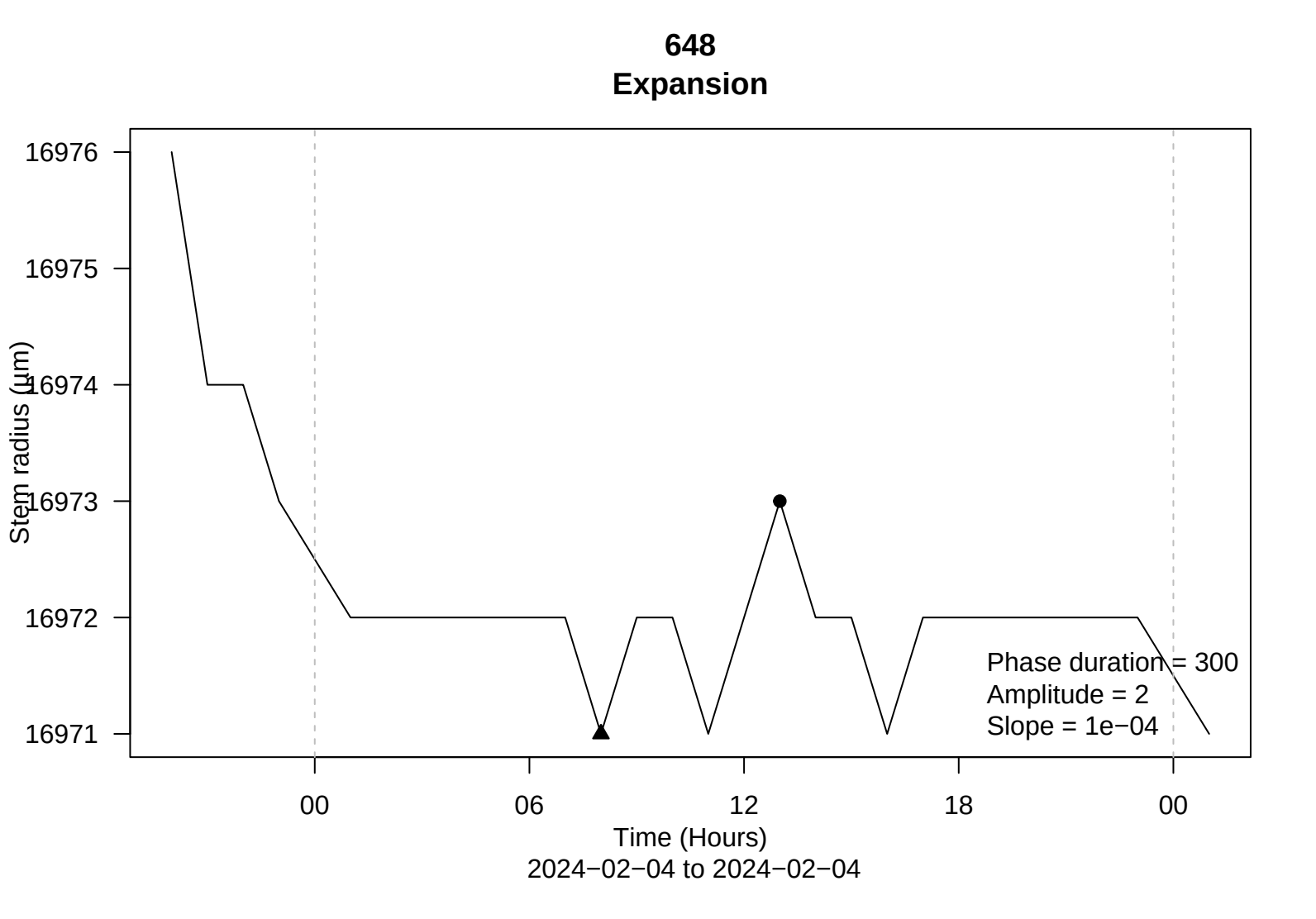

648
Expansion
16984
16982
16980
16978
Stem radius (µm)
Phase duration = 420
Amplitude = 1
Slope = 0
06
12
18
00
06
Time (Hours)
2024−01−24 to 2024−01−24

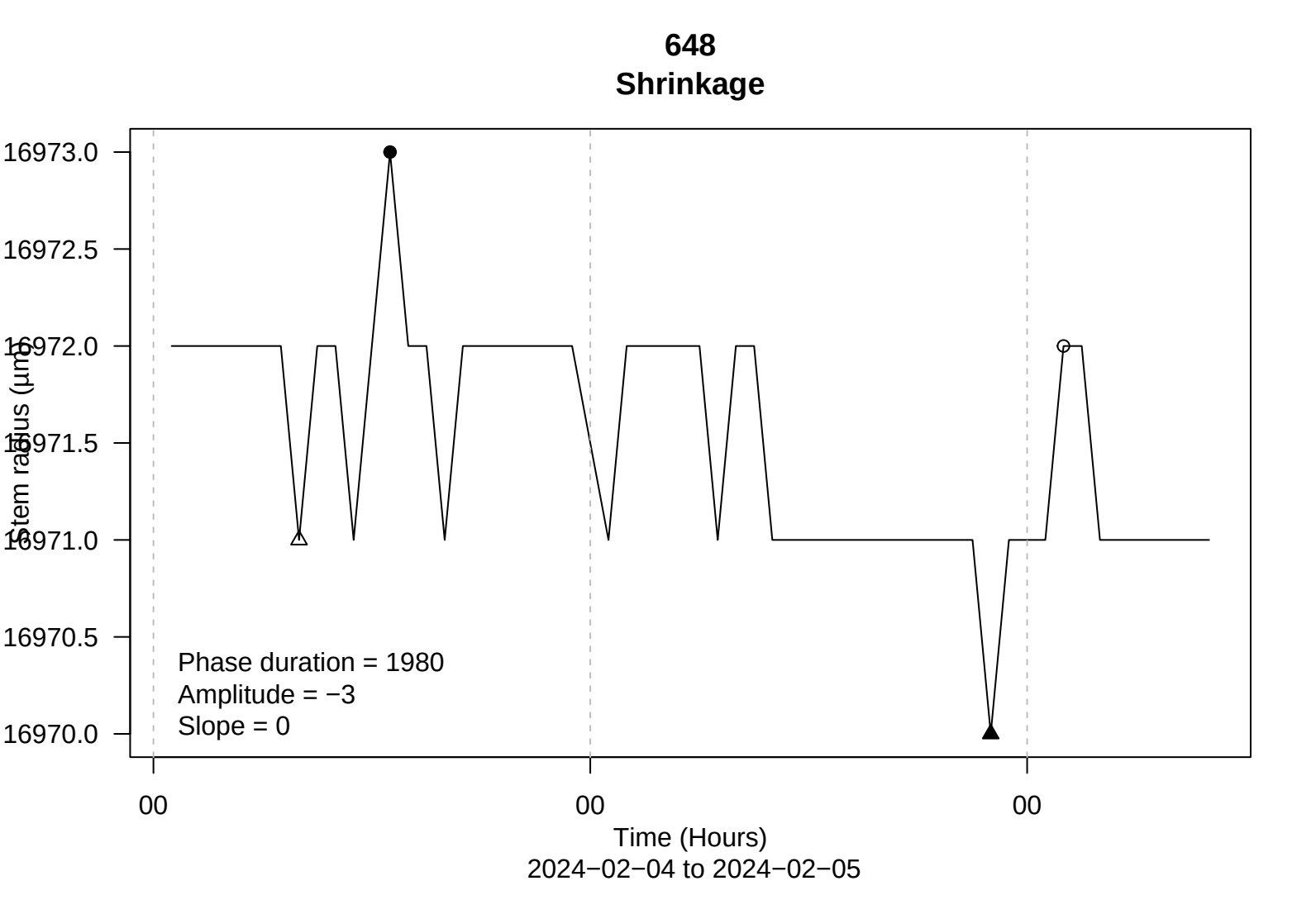

648
Shrinkage
16976.0
16975.5
16975.0
16974.5
16974.0
Stem radius (µm)
Phase duration = 1080
Amplitude = −2
Slope = 0
12
00
12
00
Time (Hours)
2024−01−28 to 2024−01−29

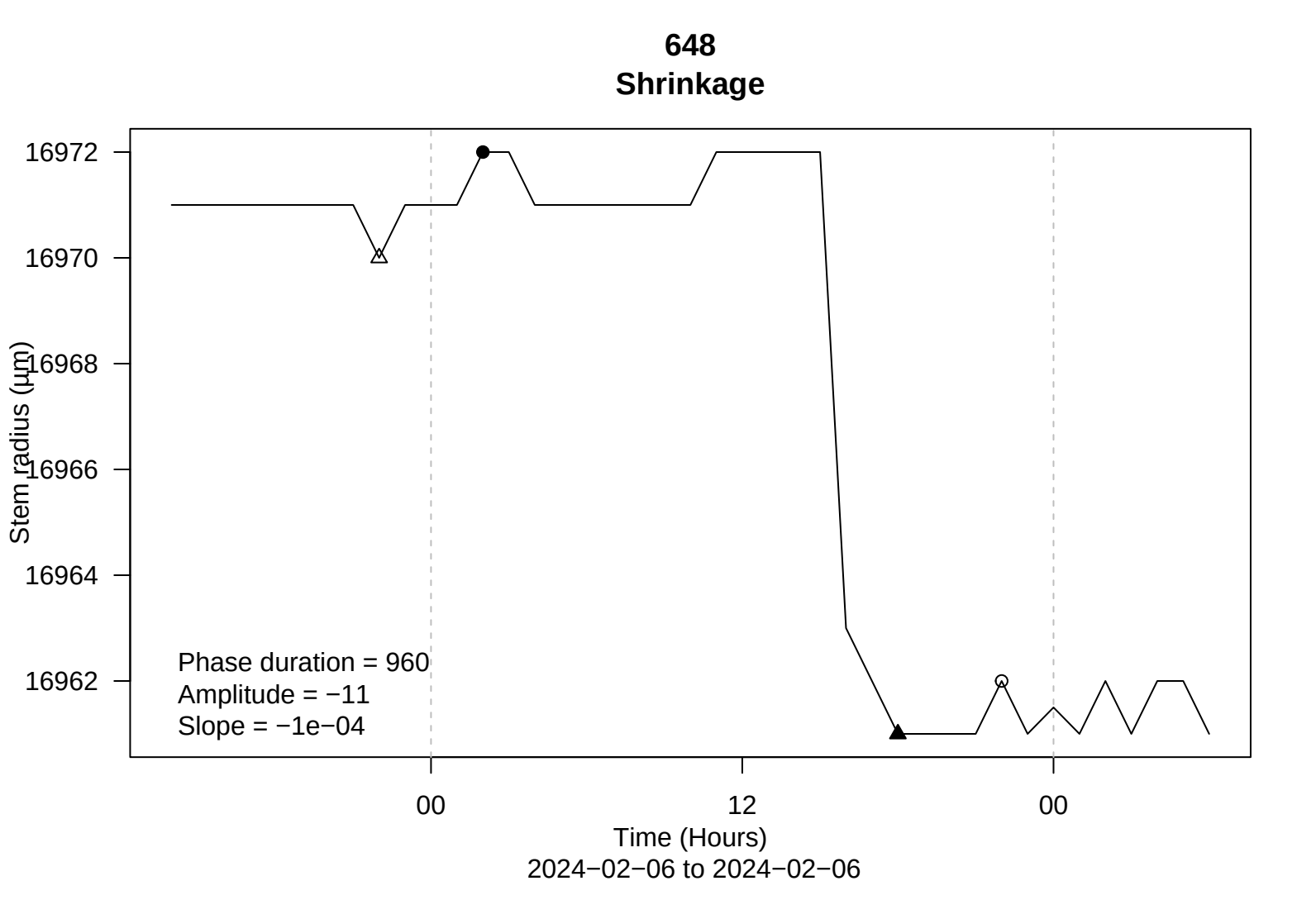

648
Expansion
16976.0
16975.5
16975.0
16974.5
16974.0
Stem radius (µm)
Phase duration = 480
Amplitude = 2
Slope = 1e−04
06
12
18
00
06
Time (Hours)
2024−01−30 to 2024−01−30

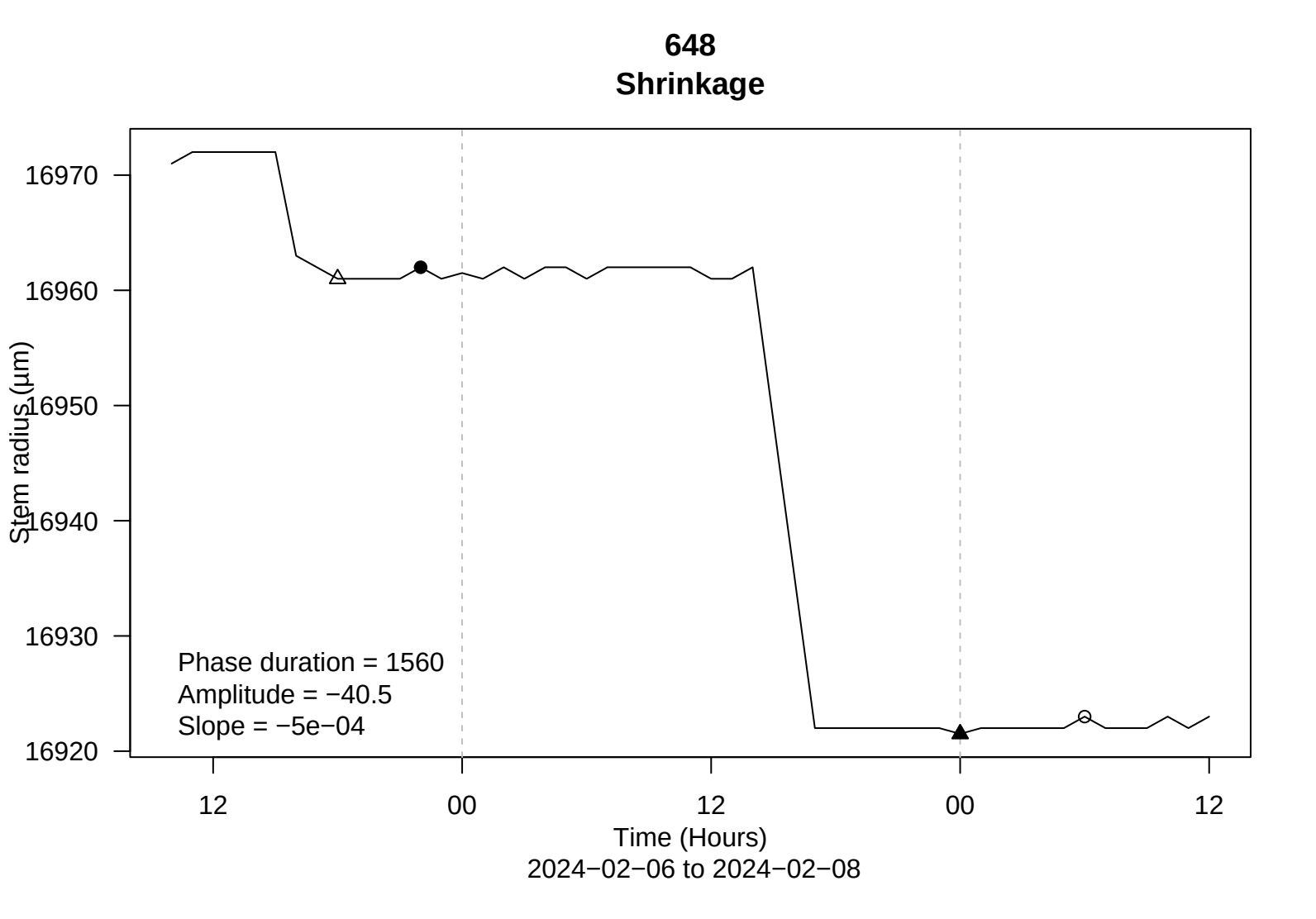

648
Shrinkage
16976.0
16975.8
16975.6
16975.4
16975.2
16975.0
Stem radius (µm)
Phase duration = 300
Amplitude = −1
Slope = 0
00
12
00
Time (Hours)
2024−02−01 to 2024−02−01

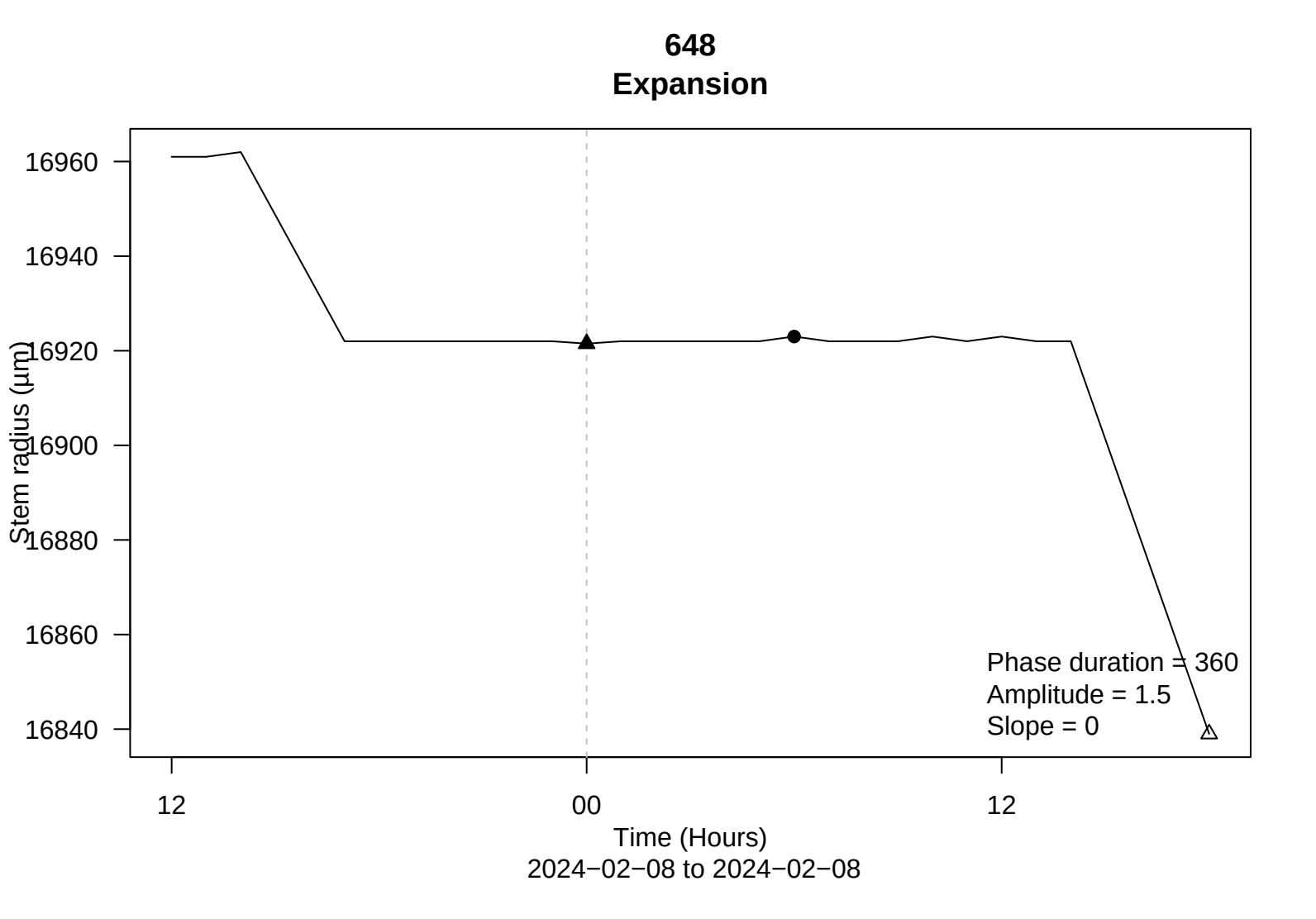

648
Shrinkage
16976
16975
16974
16973
16972
16971
Stem radius (µm)
Phase duration = 1020
Amplitude = −5
Slope = −1e−04
12
00
12
Time (Hours)
2024−02−03 to 2024−02−04

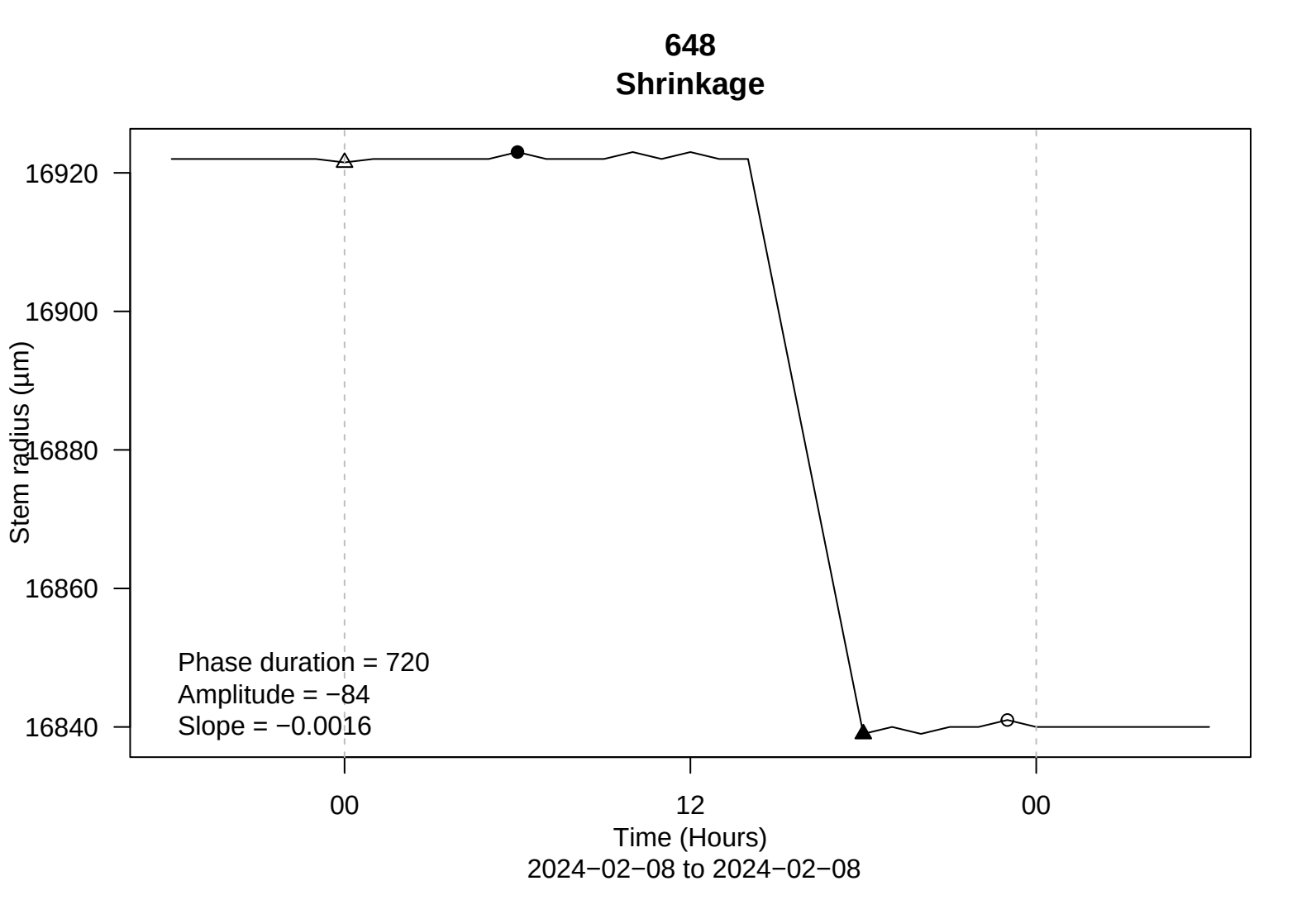

648
Expansion
16976
16975
16974
16973
16972
16971
Stem radius (µm)
Phase duration = 300
Amplitude = 2
Slope = 1e−04
00
06
12
18
00
Time (Hours)
2024−02−04 to 2024−02−04

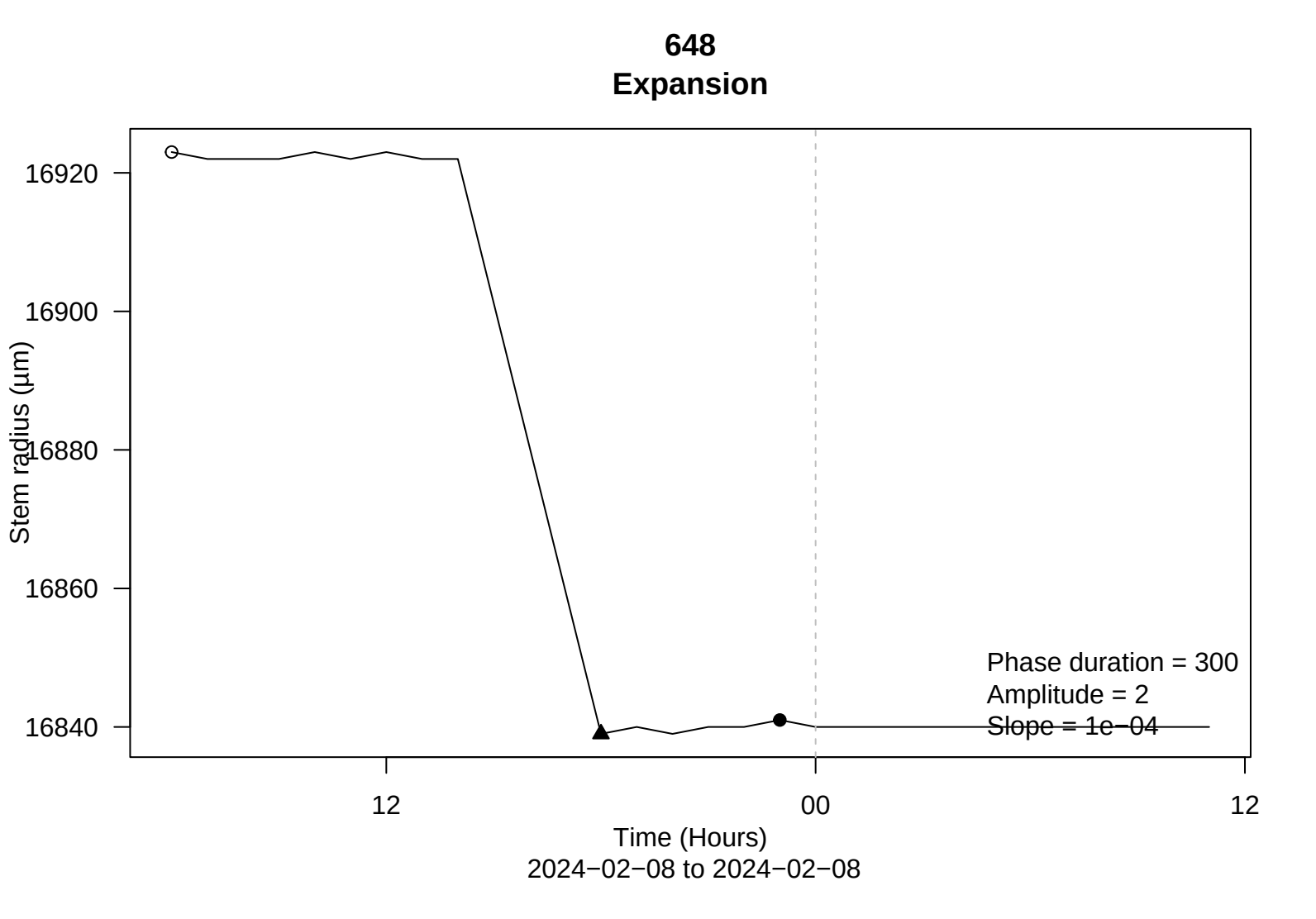

648
Shrinkage
16973.0
16972.5
16972.0
16971.5
16971.0
16970.5
16970.0
Stem radius (µm)
Phase duration = 1980
Amplitude = −3
Slope = 0
00
00
00
Time (Hours)
2024−02−04 to 2024−02−05

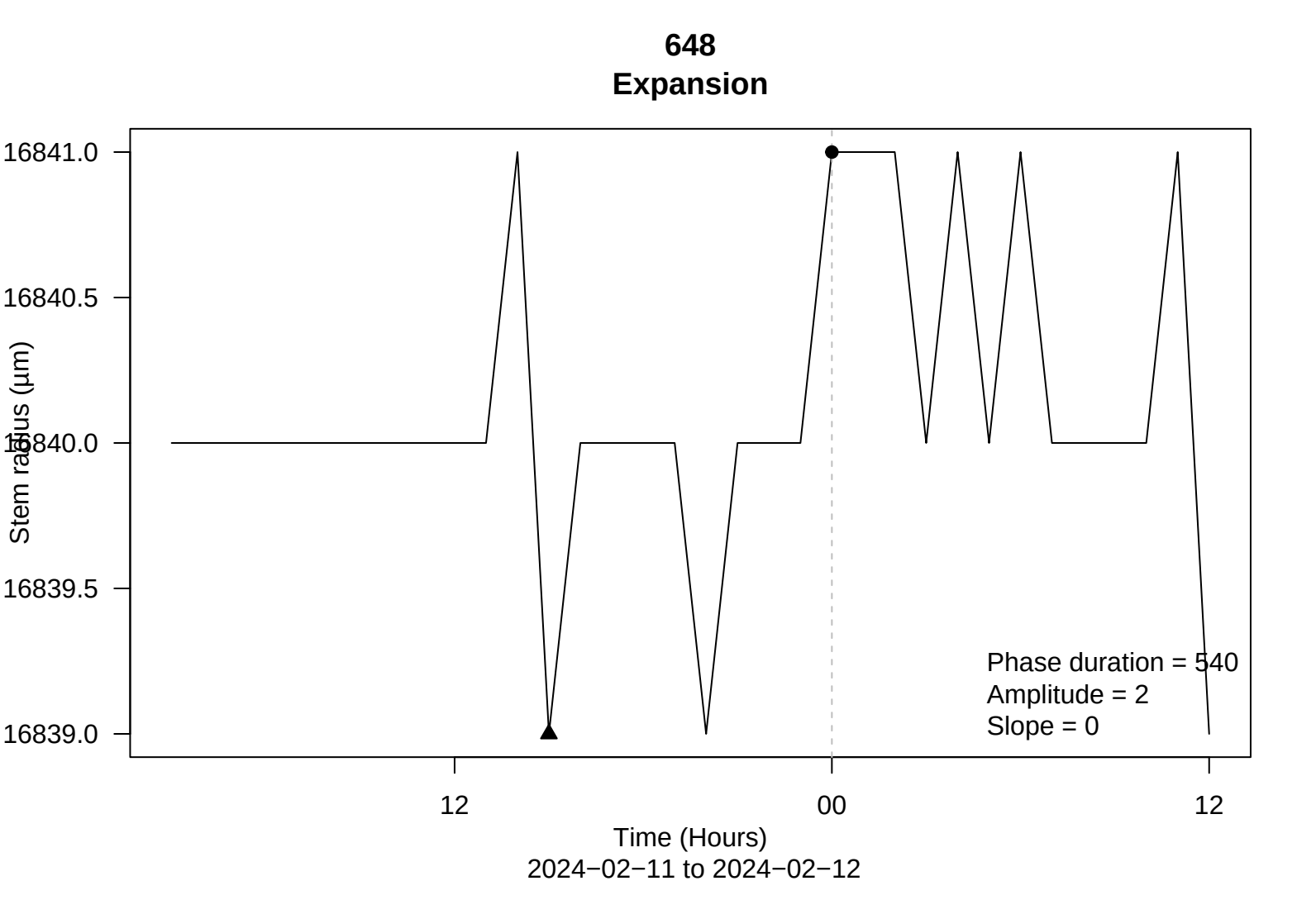

648
Shrinkage
16972
16970
16968
16966
16964
16962
Stem radius (µm)
Phase duration = 960
Amplitude = −11
Slope = −1e−04
00
12
00
Time (Hours)
2024−02−06 to 2024−02−06

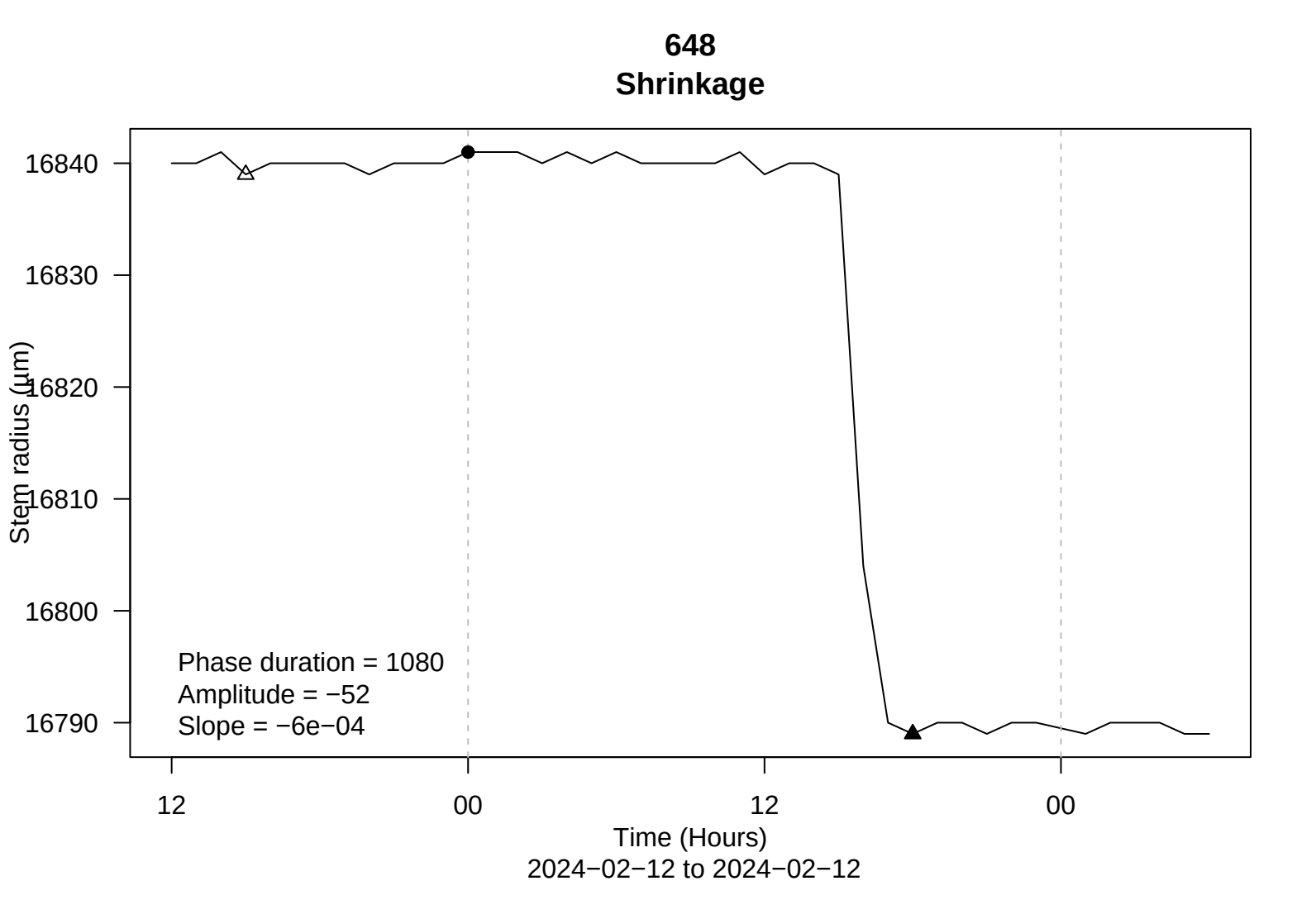

648
Shrinkage
16970
16960
16950
16940
16930
16920
Stem radius (µm)
Phase duration = 1560
Amplitude = −40.5
Slope = −5e−04
12
00
12
00
12
Time (Hours)
2024−02−06 to 2024−02−08

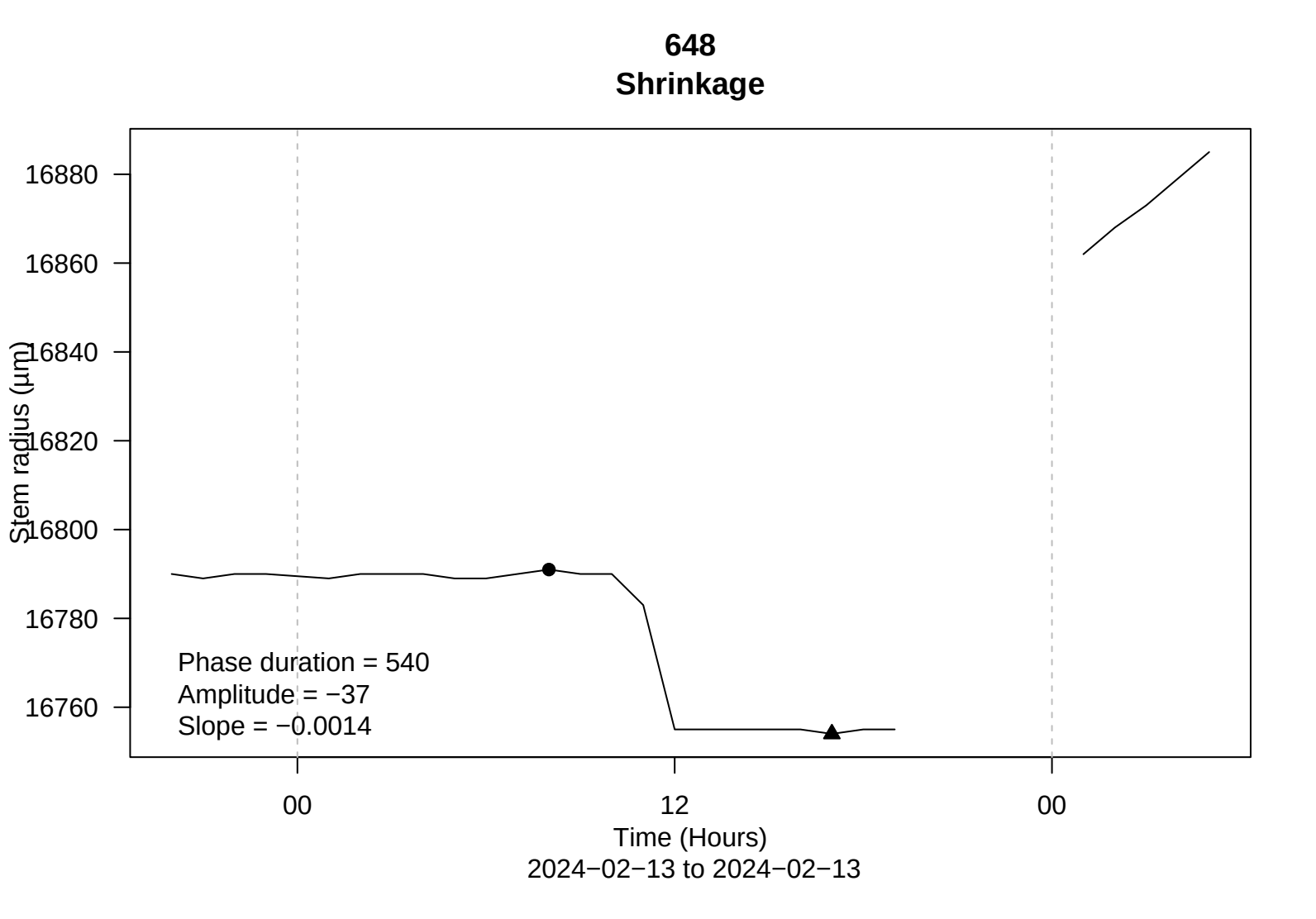

648
Expansion
16960
16940
16920
16900
16880
16860
16840
Stem radius (µm)
Phase duration = 360
Amplitude = 1.5
Slope = 0
12
00
12
Time (Hours)
2024−02−08 to 2024−02−08

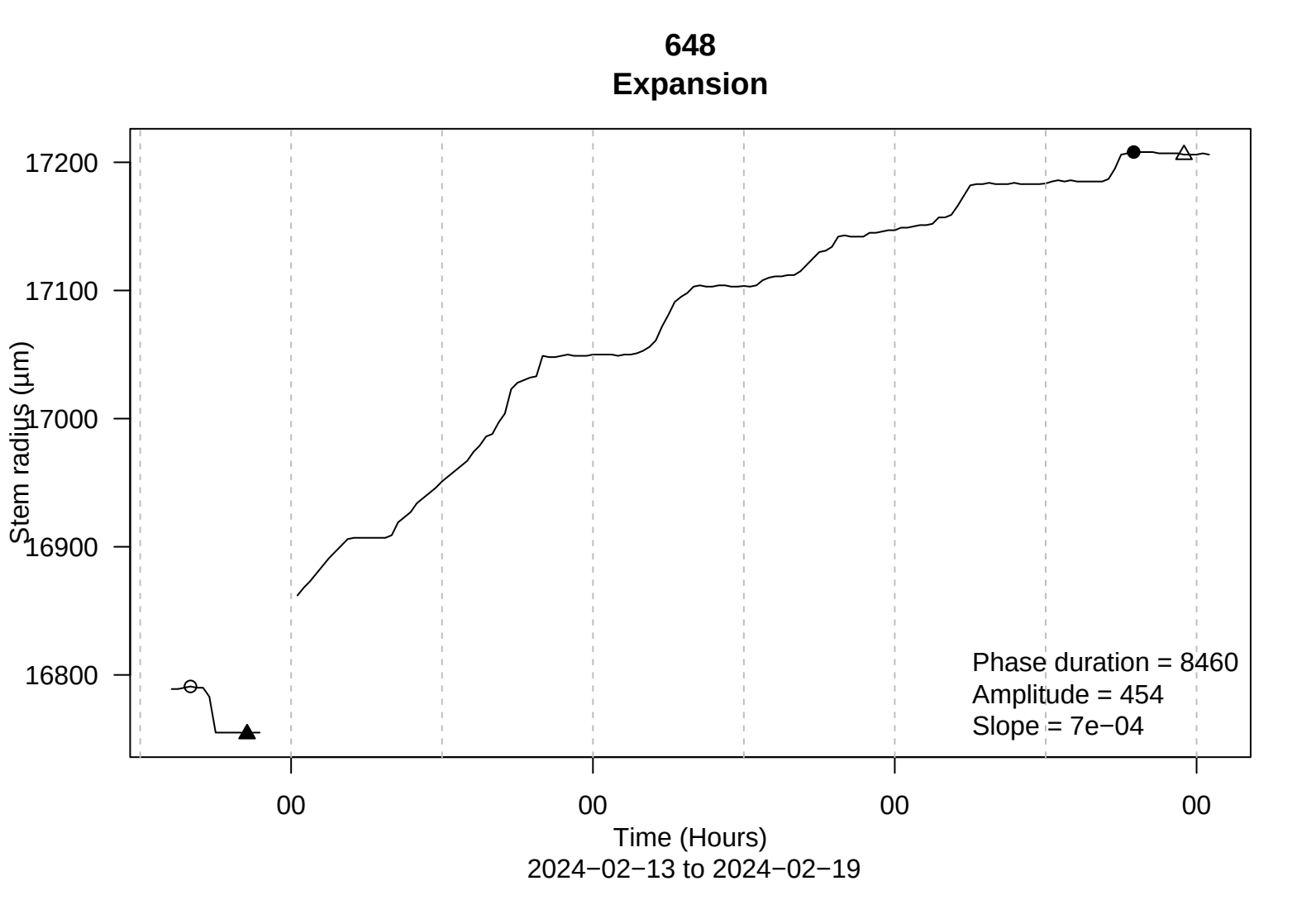

648
Shrinkage
16920
16900
16880
16860
16840
Stem radius (µm)
Phase duration = 720
Amplitude = −84
Slope = −0.0016
00
12
00
Time (Hours)
2024−02−08 to 2024−02−08

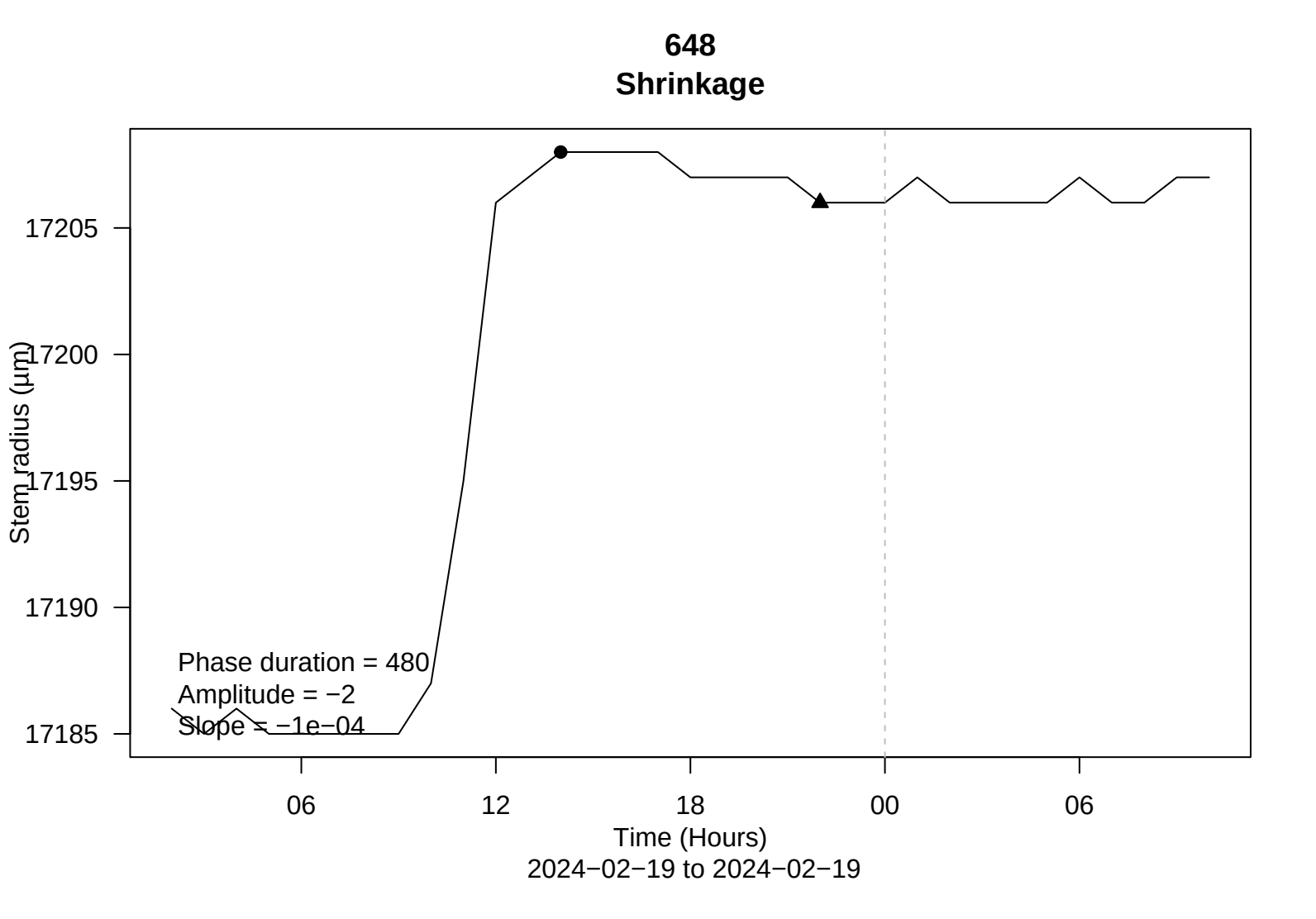

648
Expansion
16920
16900
16880
16860
16840
Stem radius (µm)
Phase duration = 300
Amplitude = 2
Slope = 1e−04
12
00
12
Time (Hours)
2024−02−08 to 2024−02−08

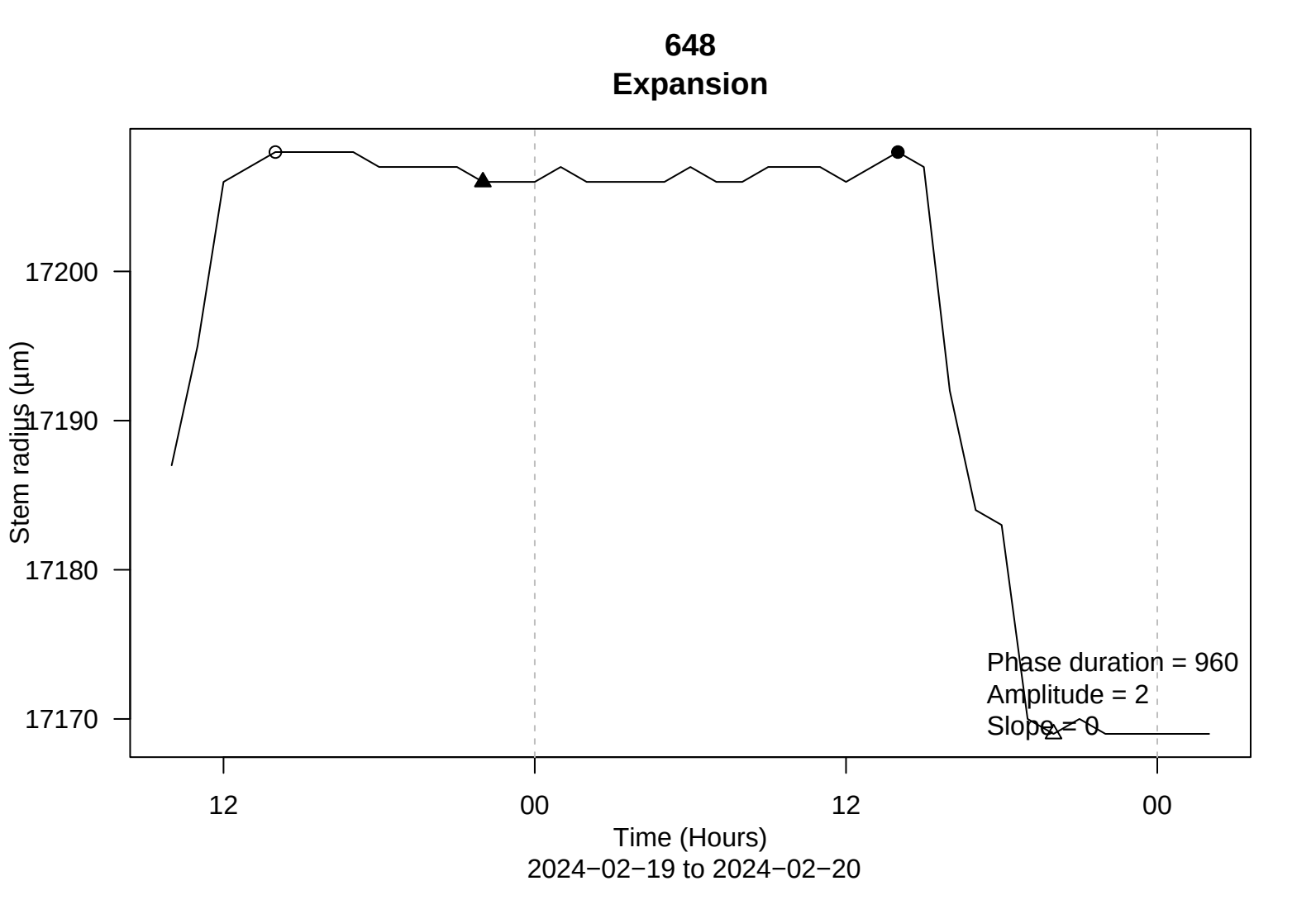

648
Expansion
16841.0
16840.5
16840.0
16839.5
16839.0
Stem radius (µm)
Phase duration = 540
Amplitude = 2
Slope = 0
12
00
12
Time (Hours)
2024−02−11 to 2024−02−12

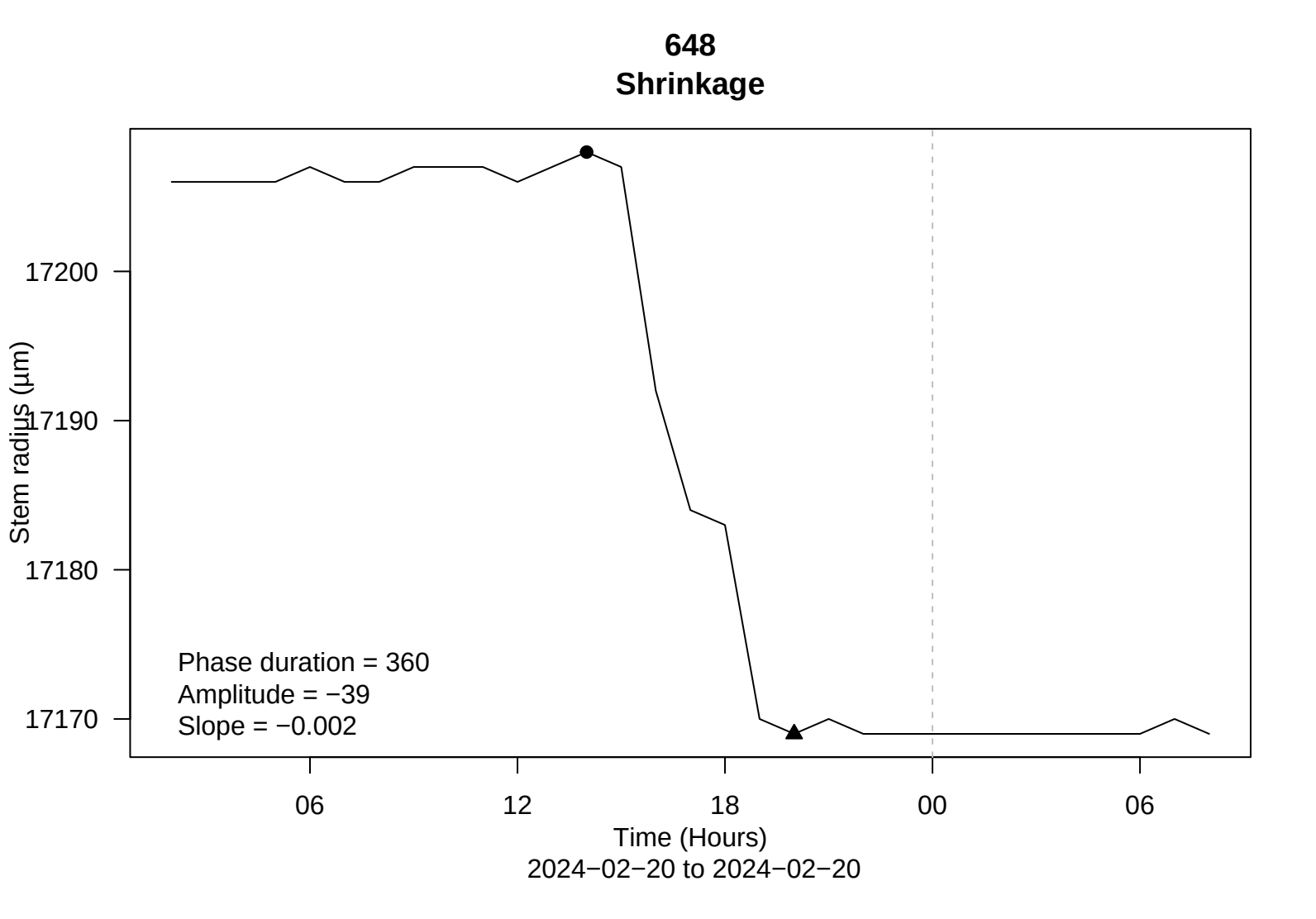

648
Shrinkage
16840
16830
16820
16810
16800
16790
Stem radius (µm)
Phase duration = 1080
Amplitude = −52
Slope = −6e−04
12
00
12
00
Time (Hours)
2024−02−12 to 2024−02−12

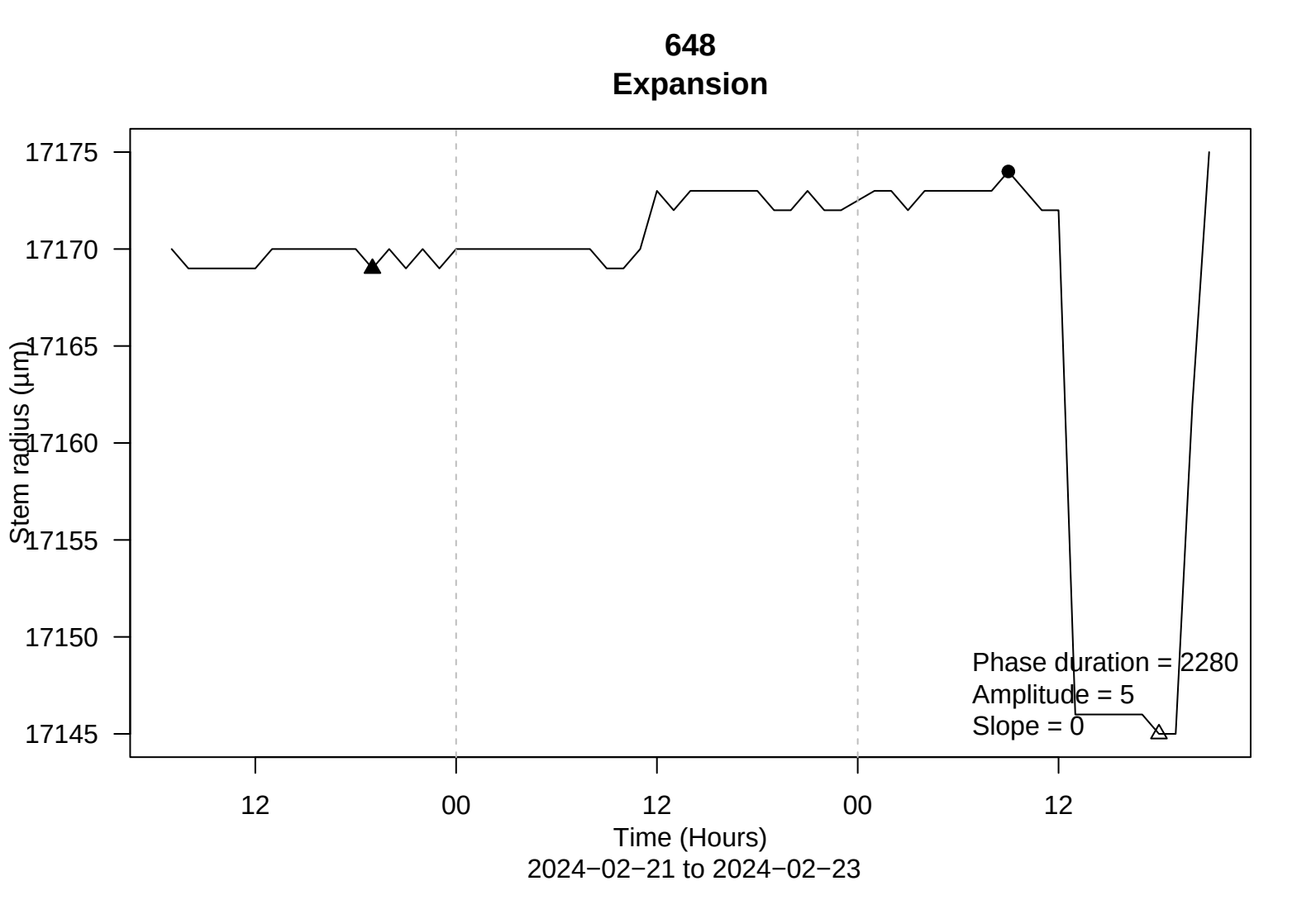

648
Shrinkage
16880
16860
16840
16820
16800
16780
16760
Stem radius (µm)
Phase duration = 540
Amplitude = −37
Slope = −0.0014
00
12
00
Time (Hours)
2024−02−13 to 2024−02−13

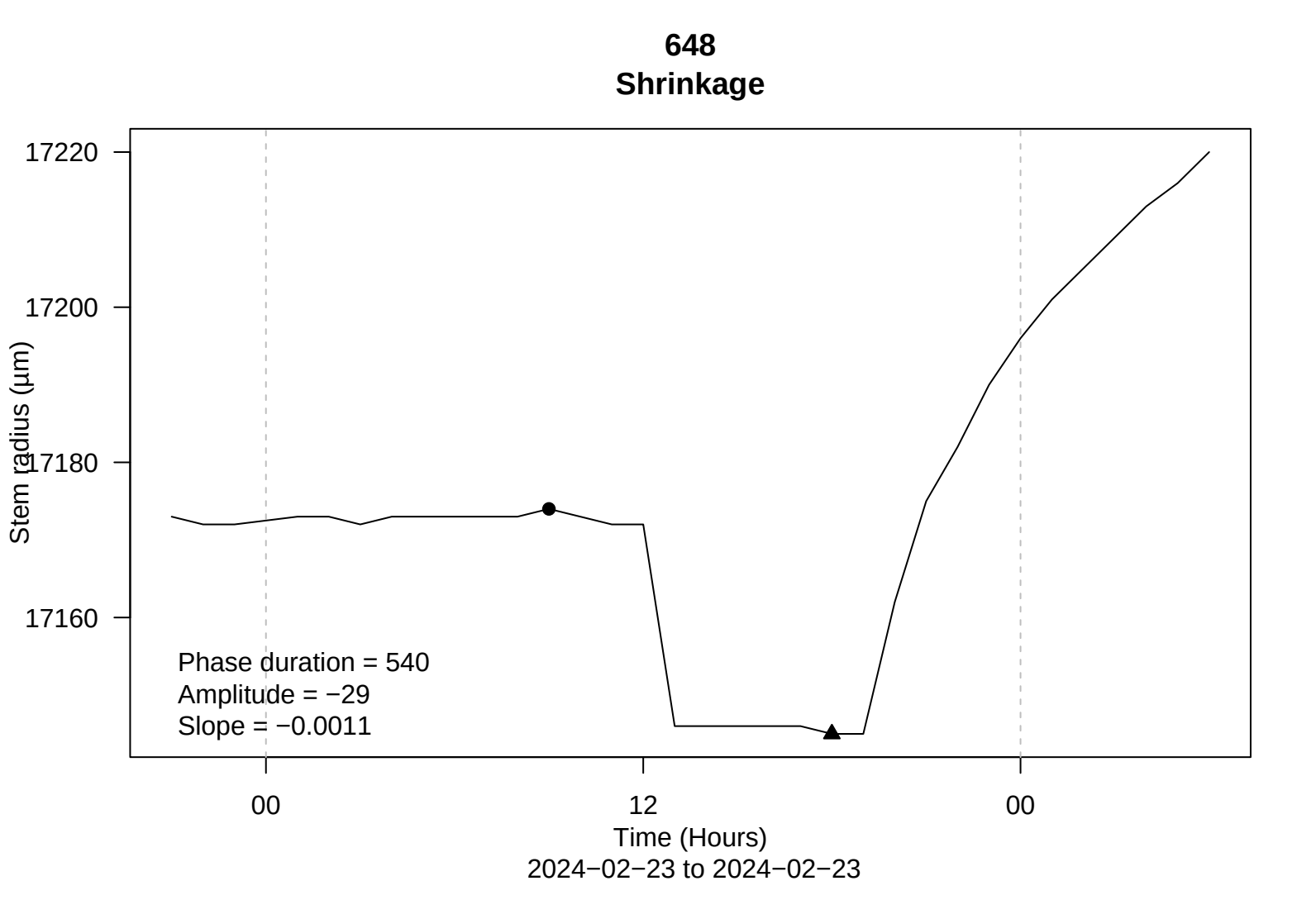

648
Expansion
17200
17100
17000
16900
16800
Stem radius (µm)
Phase duration = 8460
Amplitude = 454
Slope = 7e−04
00
00
00
00
Time (Hours)
2024−02−13 to 2024−02−19

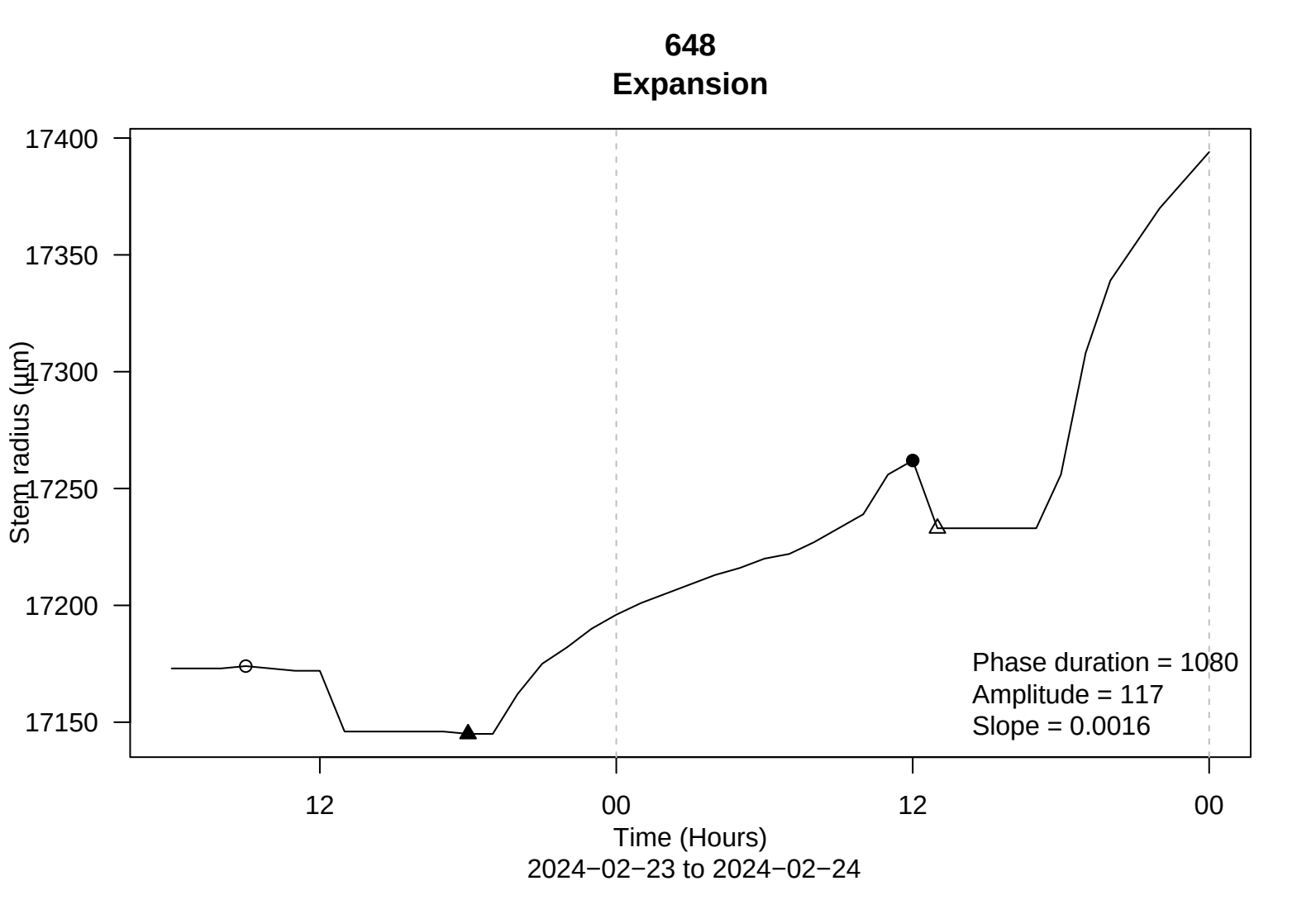

648
Shrinkage
17205
17200
17195
17190
17185
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = −1e−04
06
12
18
00
06
Time (Hours)
2024−02−19 to 2024−02−19

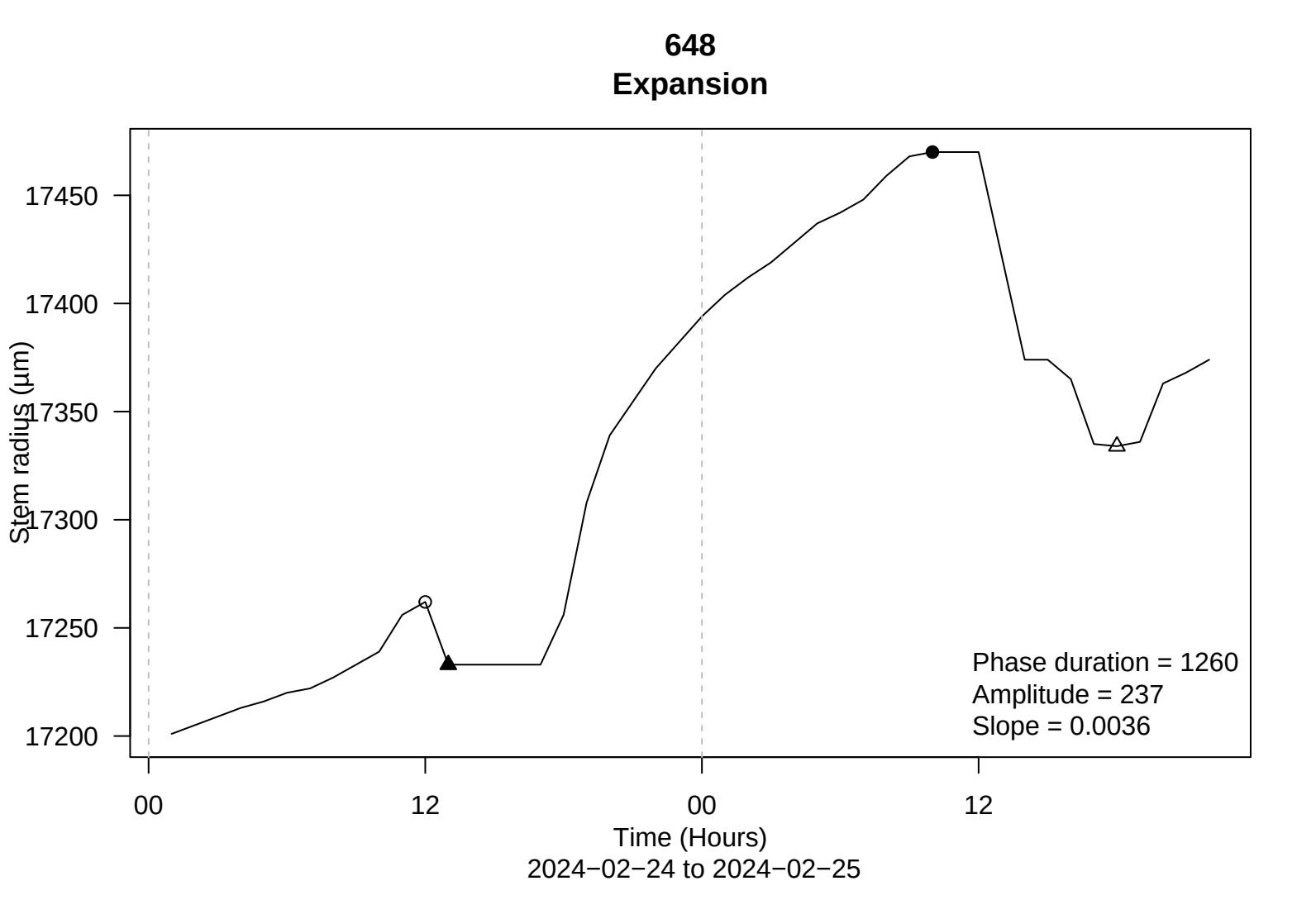

648
Expansion
17200
17190
17180
17170
Stem radius (µm)
Phase duration = 960
Amplitude = 2
Slope = 0
12
00
12
00
Time (Hours)
2024−02−19 to 2024−02−20

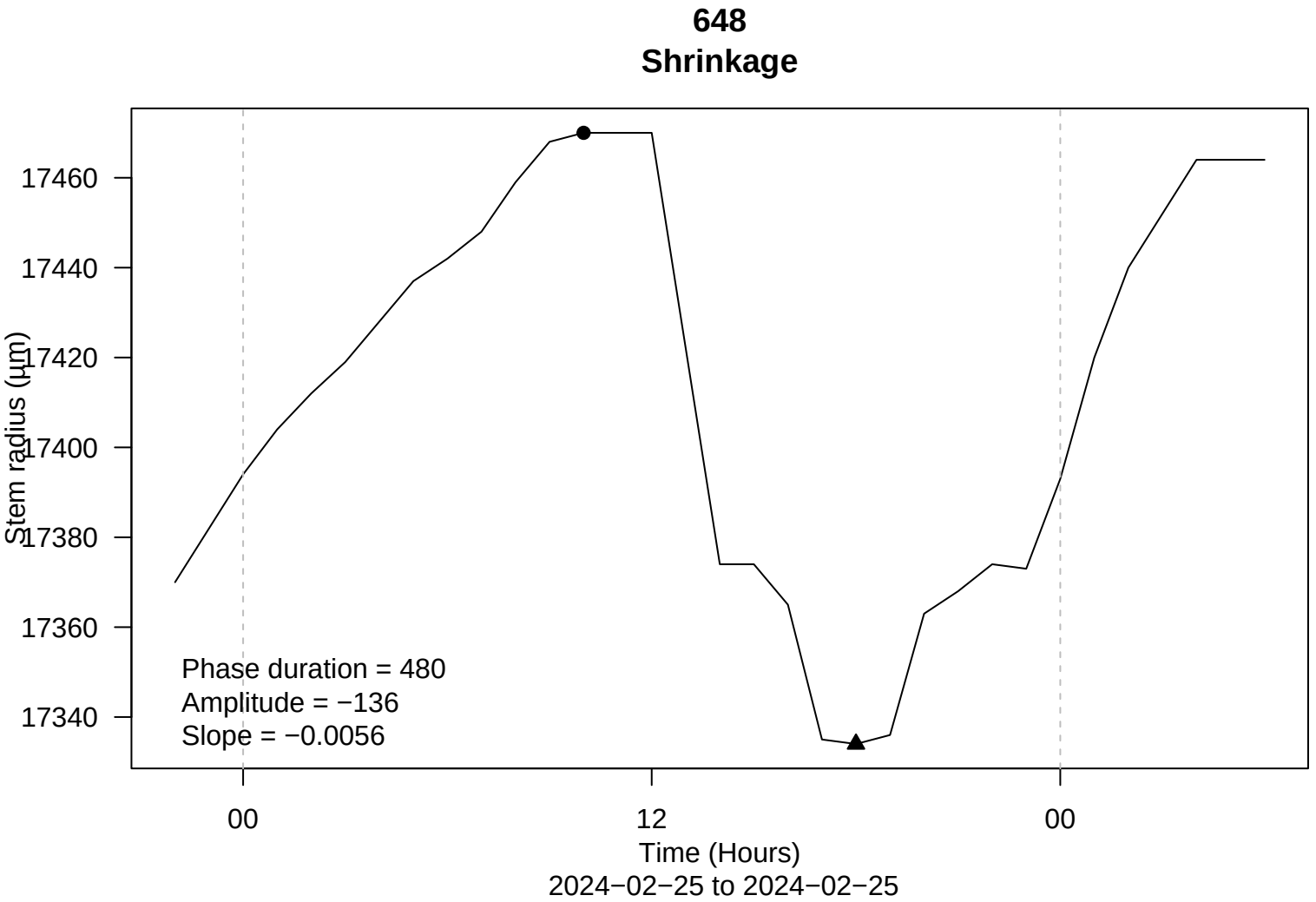

648
Shrinkage
17200
17190
17180
17170
Stem radius (µm)
Phase duration = 360
Amplitude = −39
Slope = −0.002
06
12
18
00
06
Time (Hours)
2024−02−20 to 2024−02−20

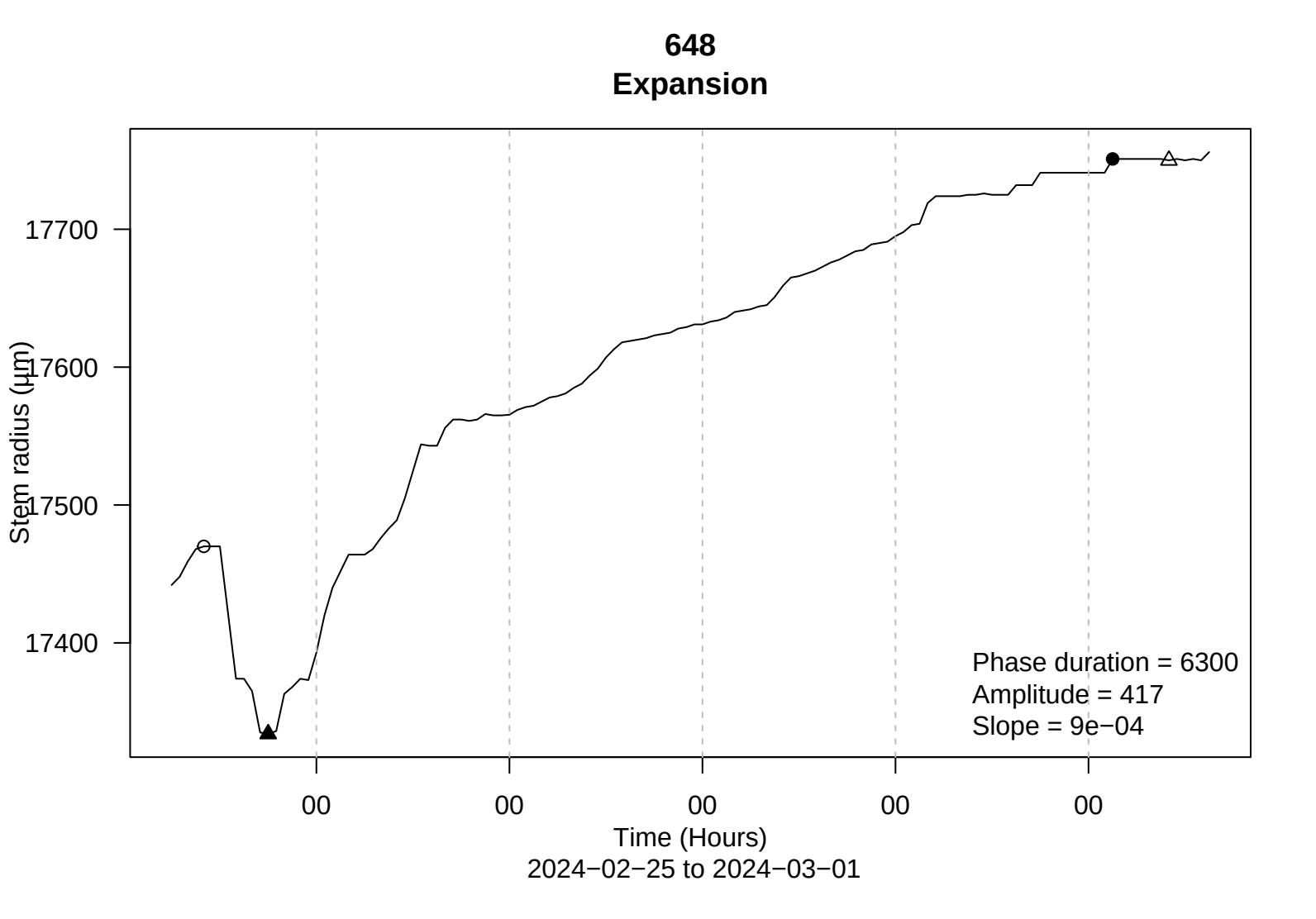

648
Expansion
17175
17170
17165
17160
17155
17150
17145
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2024−02−21 to 2024−02−23
Phase duration = 2280
Amplitude = 5
Slope = 0

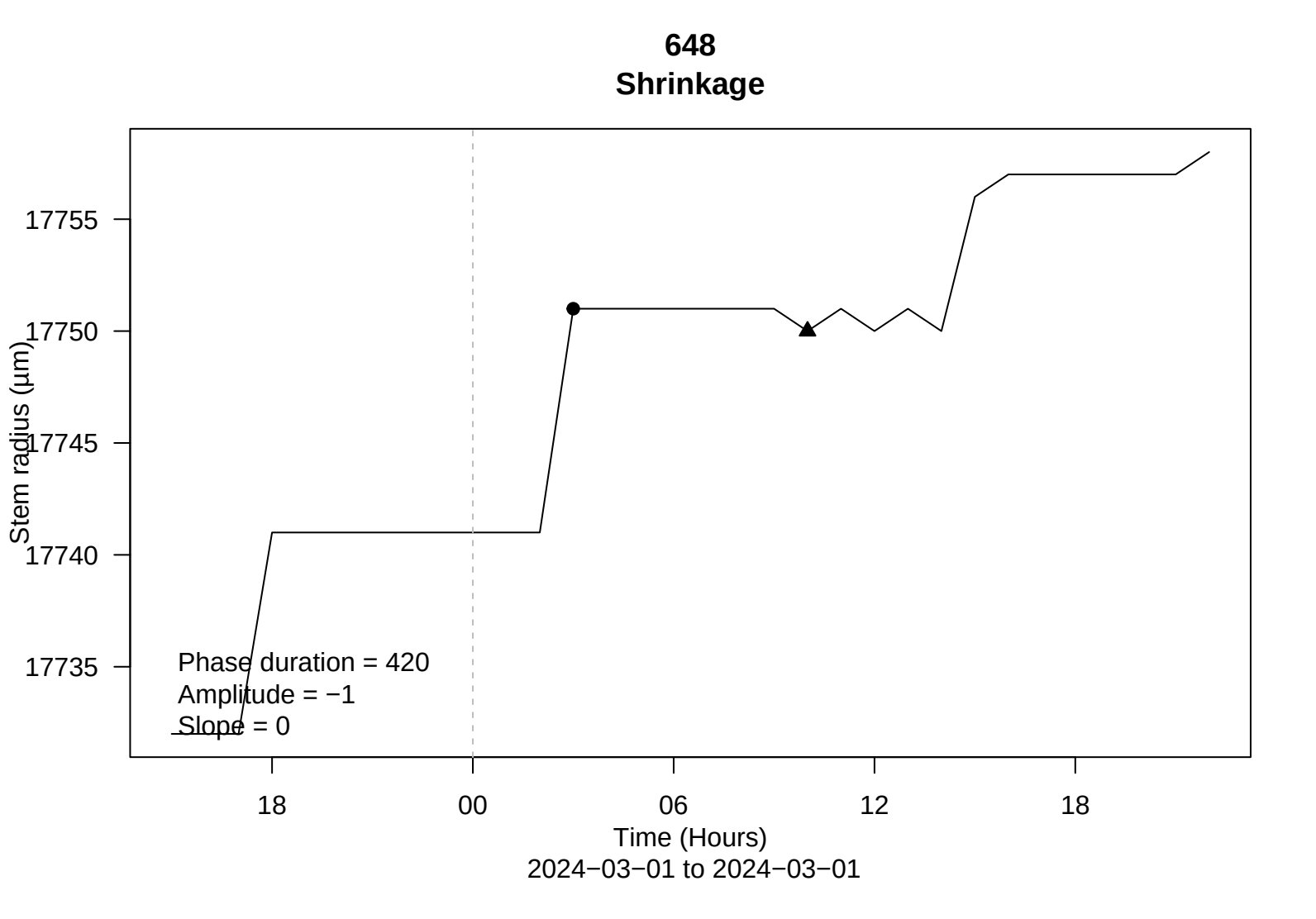

648
Shrinkage
17220
17200
17180
17160
Stem radius (µm)
Phase duration = 540
Amplitude = −29
Slope = −0.0011
00
12
00
Time (Hours)
2024−02−23 to 2024−02−23

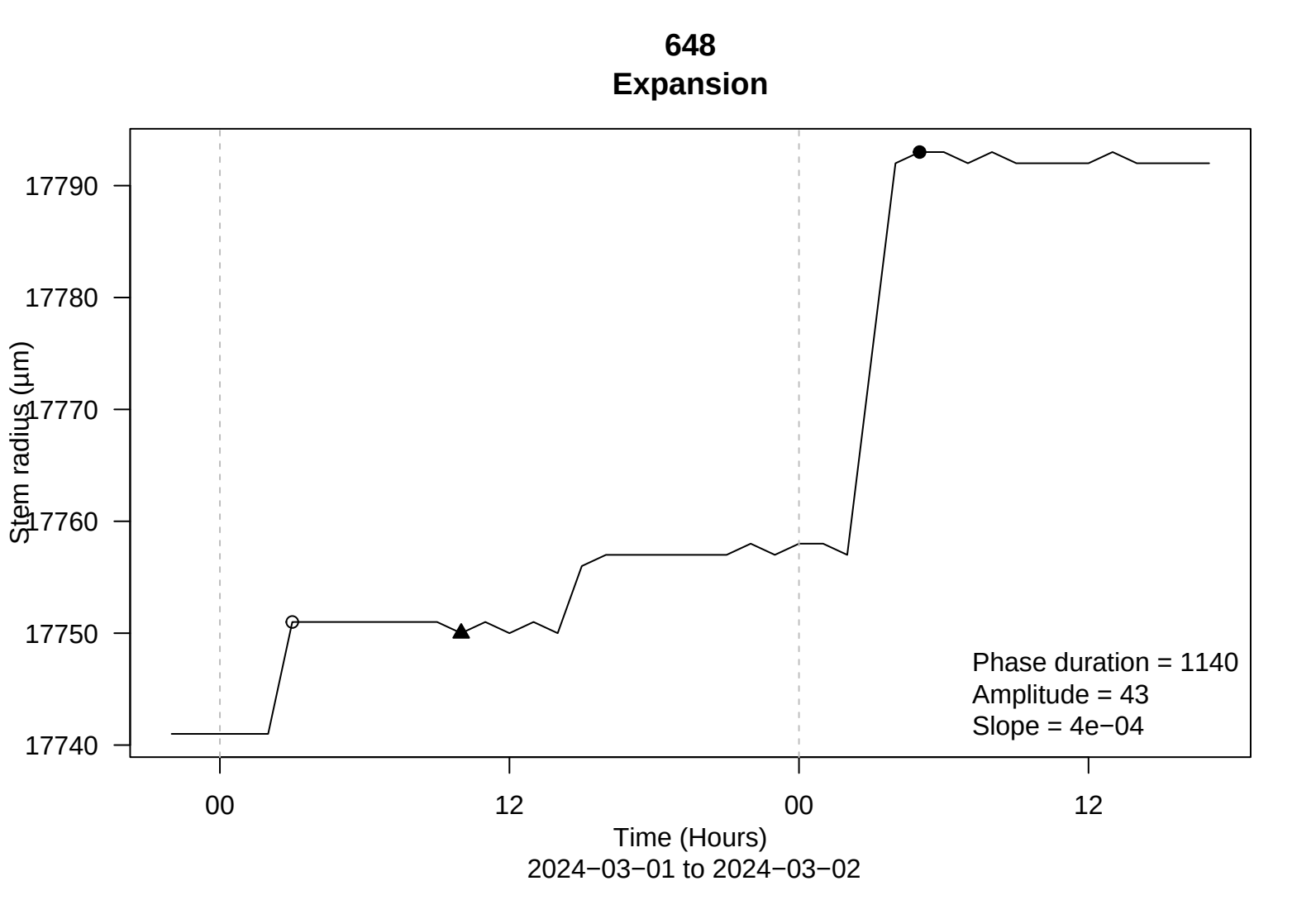

648
Expansion
17400
17350
17300
17250
17200
17150
Stem radius (µm)
Phase duration = 1080
Amplitude = 117
Slope = 0.0016
12
00
12
00
Time (Hours)
2024−02−23 to 2024−02−24

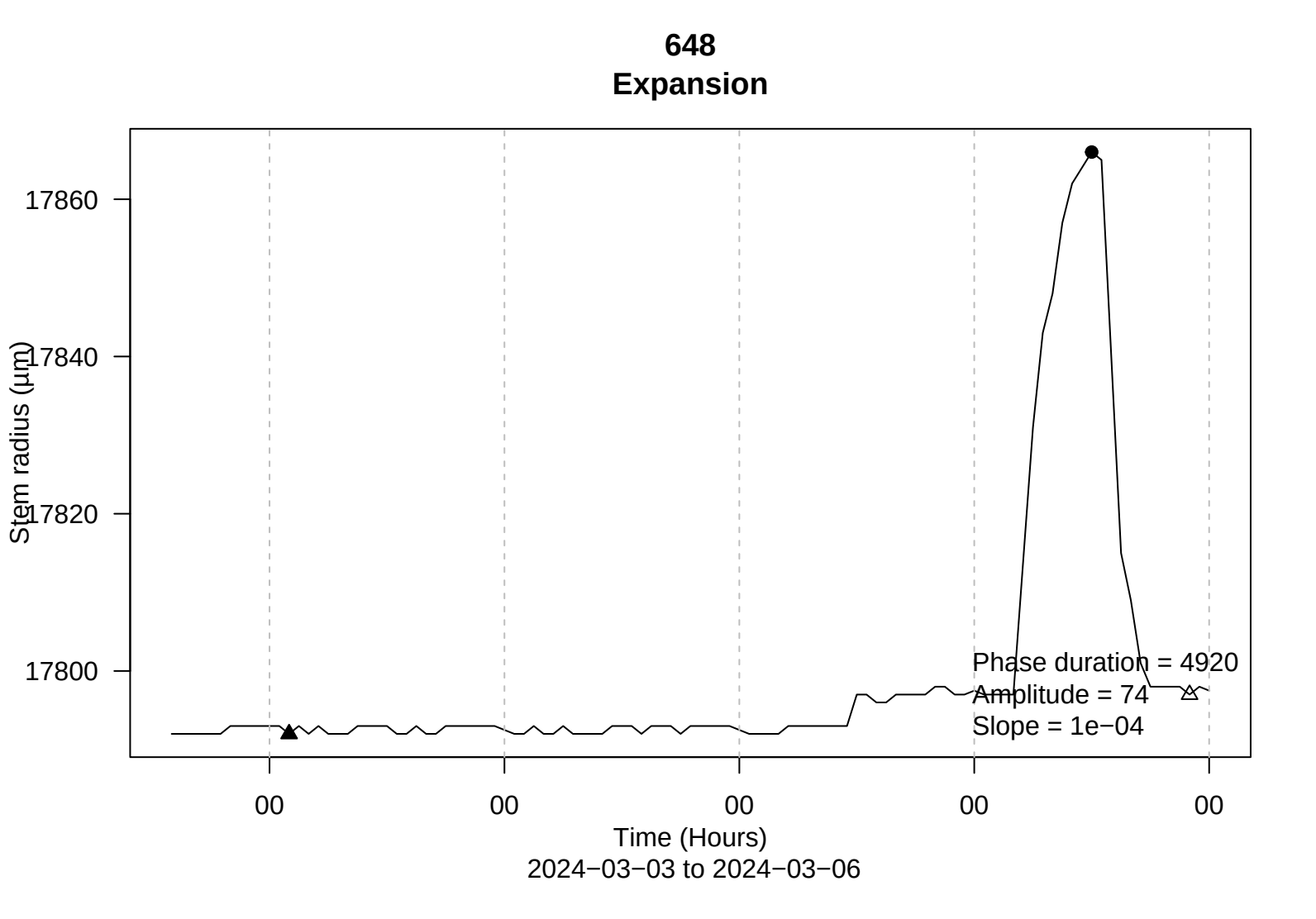

648
Expansion
17450
17400
17350
17300
17250
17200
Stem radius (µm)
Phase duration = 1260
Amplitude = 237
Slope = 0.0036
00
12
00
12
Time (Hours)
2024−02−24 to 2024−02−25

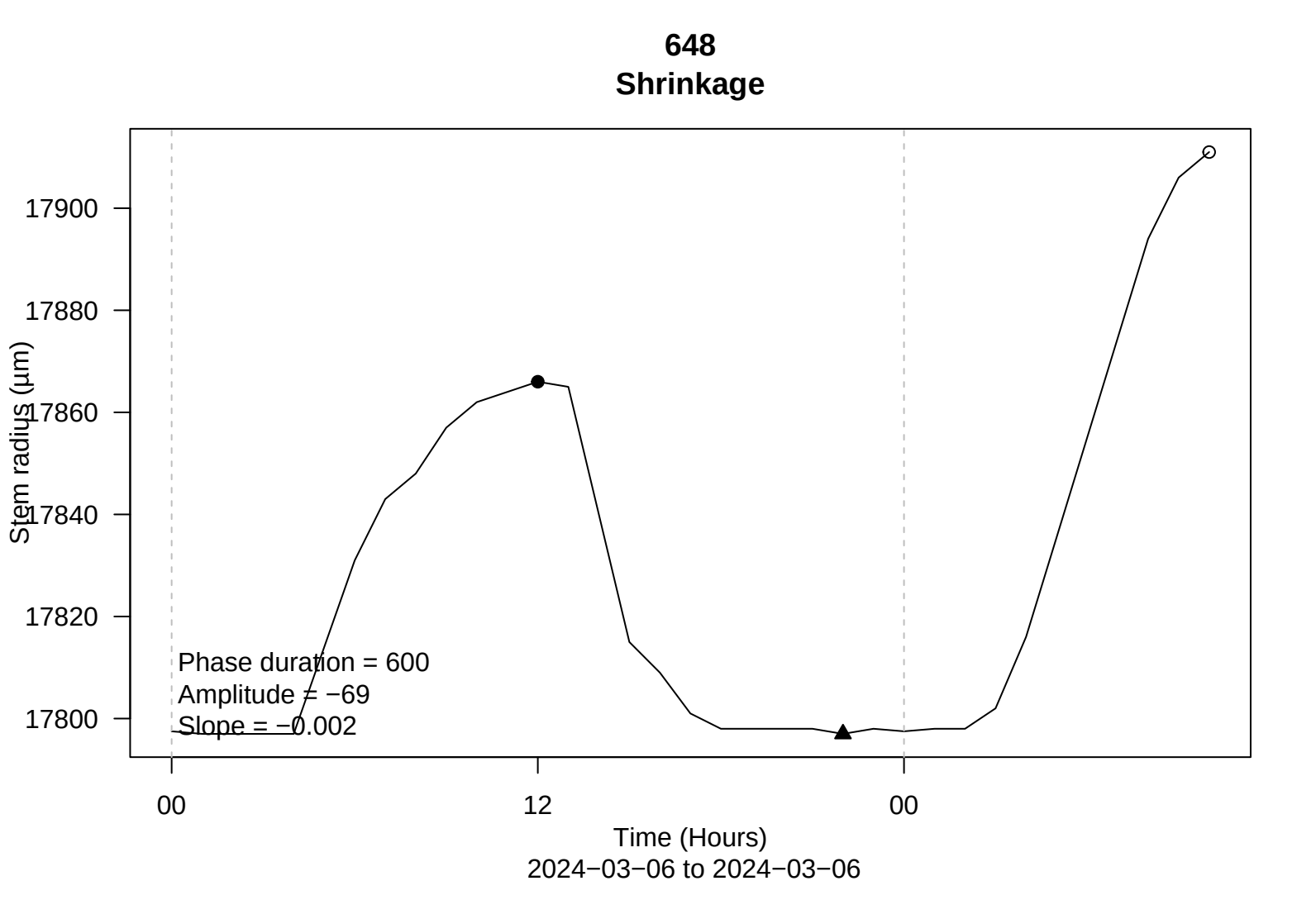

648
Shrinkage
17460
17440
17420
17400
17380
17360
17340
Stem radius (µm)
Phase duration = 480
Amplitude = −136
Slope = −0.0056
00
12
00
Time (Hours)
2024−02−25 to 2024−02−25

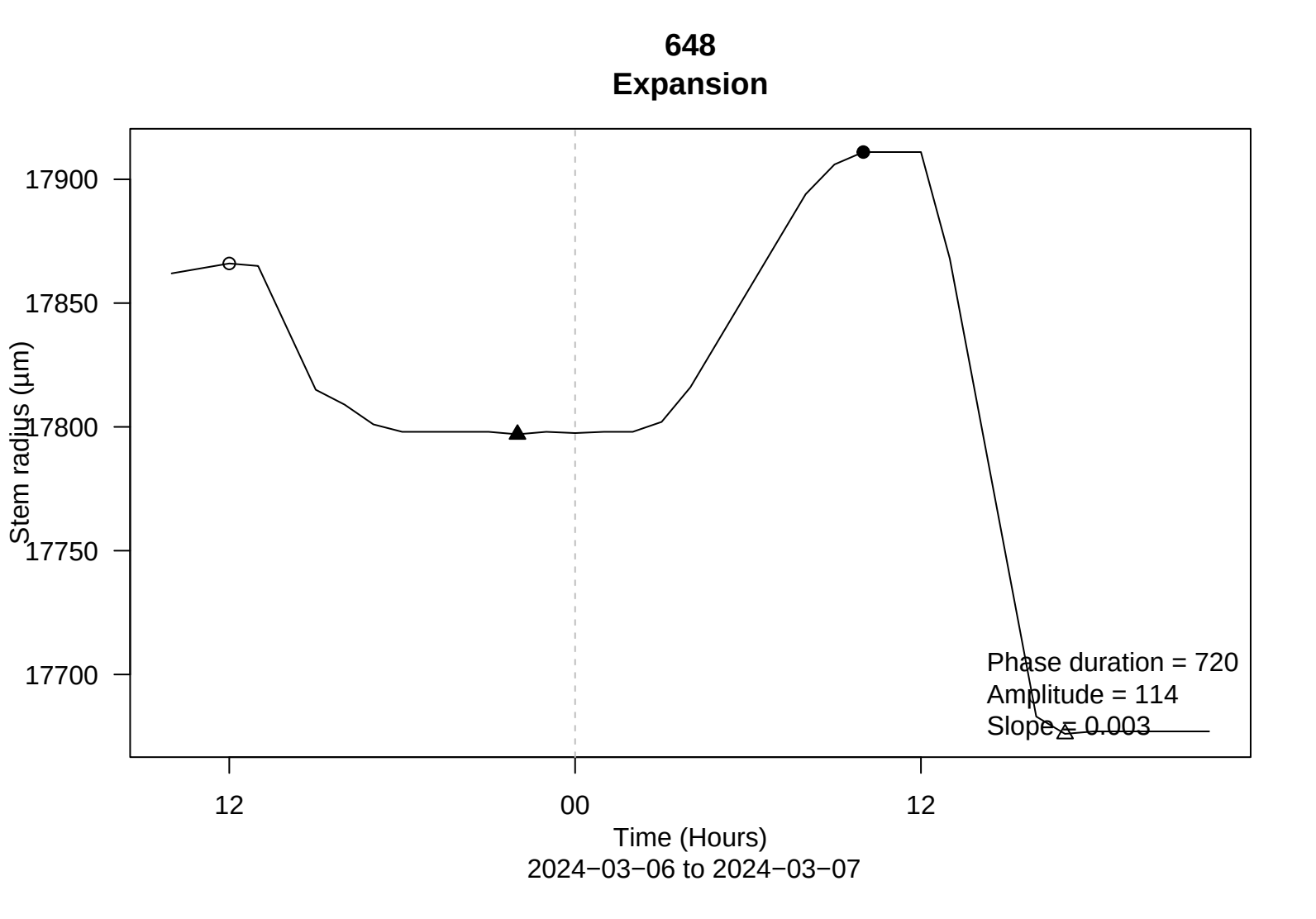

648
Expansion
17700
17600
17500
17400
Stem radius (µm)
00
00
00
00
00
Time (Hours)
2024−02−25 to 2024−03−01
Phase duration = 6300
Amplitude = 417
Slope = 9e−04

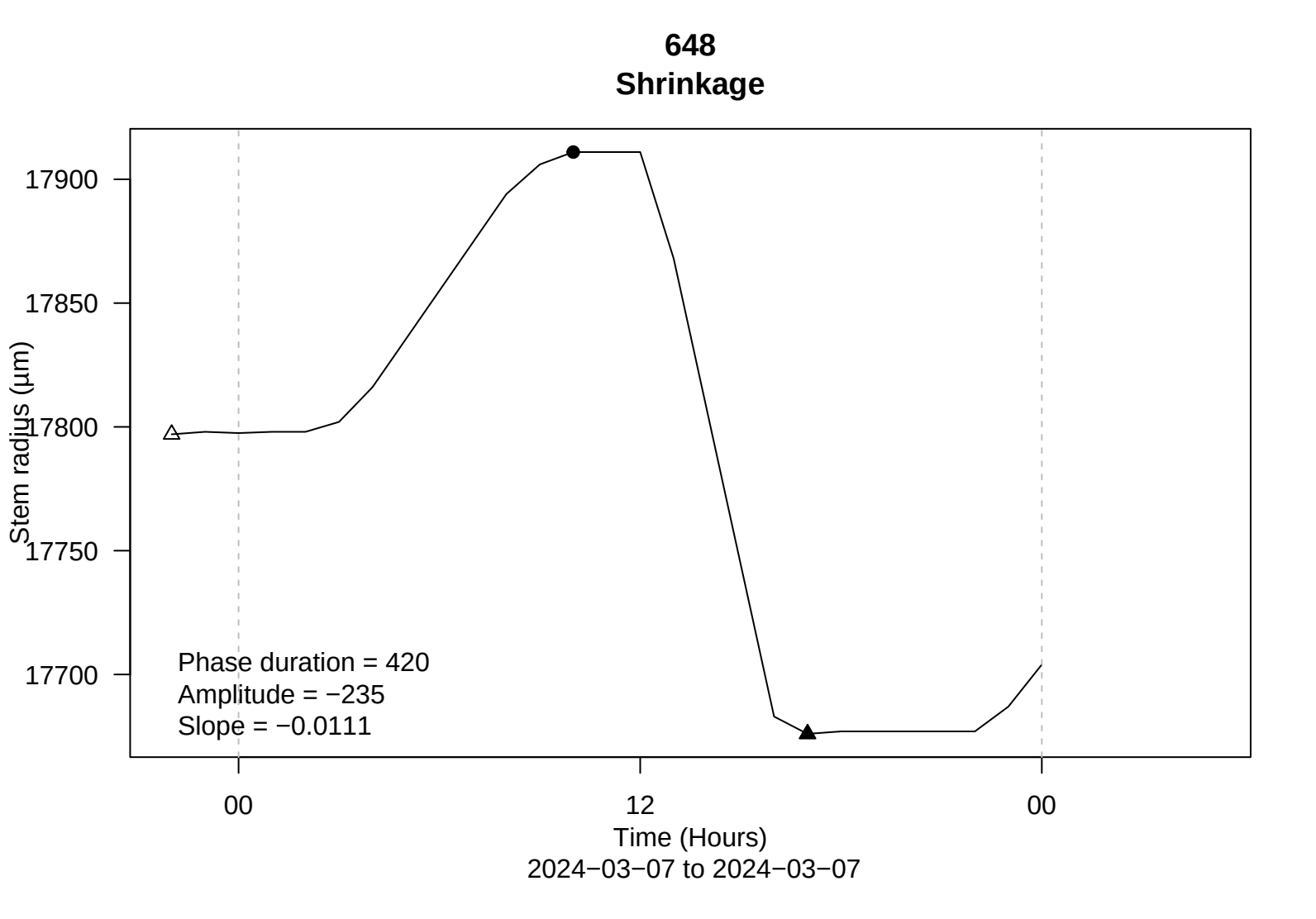

648
Shrinkage
17755
17750
17745
17740
17735
Stem radius (µm)
Phase duration = 420
Amplitude = −1
Slope = 0
18
00
06
12
18
Time (Hours)
2024−03−01 to 2024−03−01

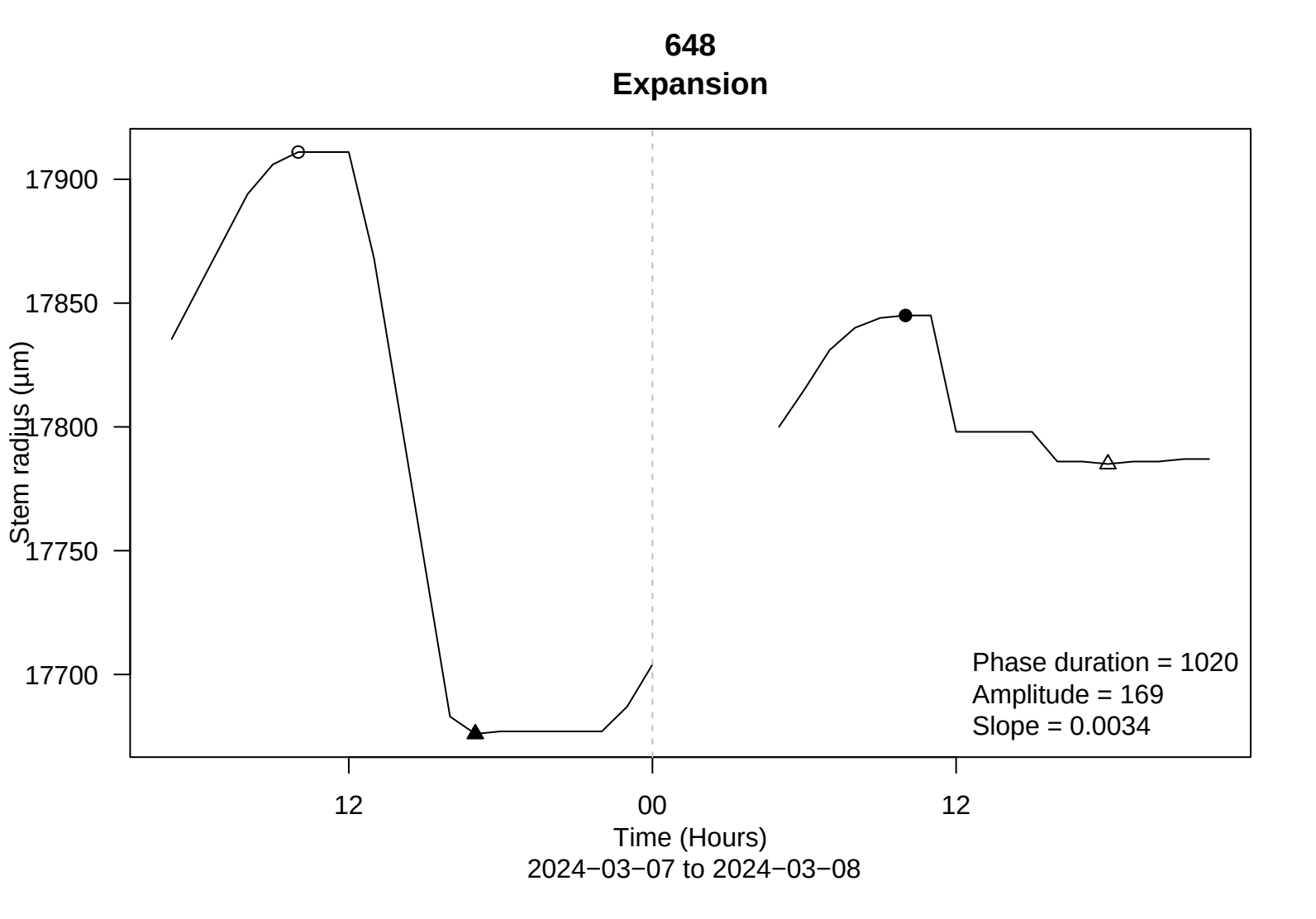

648
Expansion
17790
17780
17770
17760
17750
17740
Stem radius (µm)
00
12
00
12
Time (Hours)
2024−03−01 to 2024−03−02
Phase duration = 1140
Amplitude = 43
Slope = 4e−04

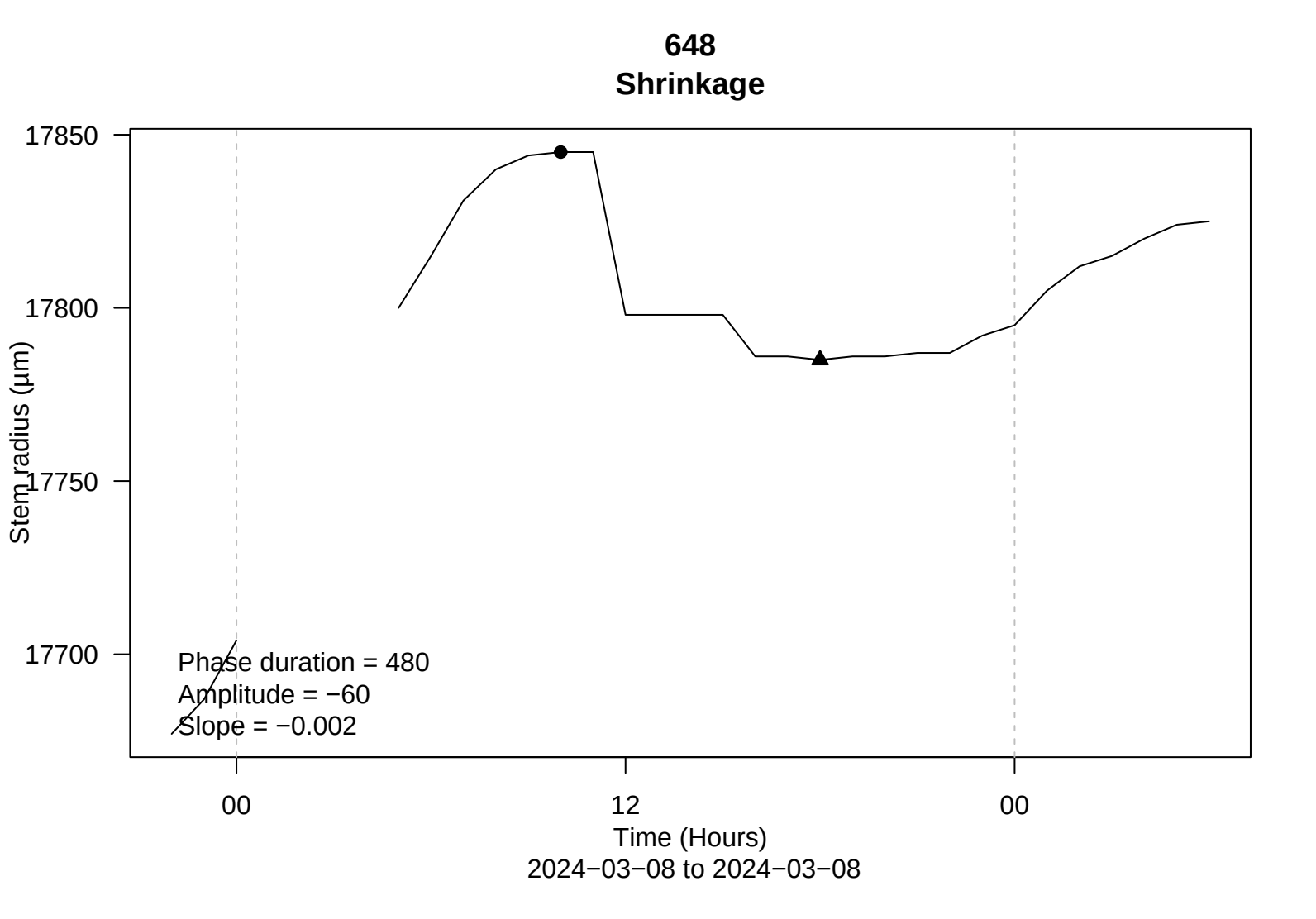

648
Expansion
17860
17840
17820
17800
Stem radius (µm)
Phase duration = 4920
Amplitude = 74
Slope = 1e−04
00
00
00
00
00
Time (Hours)
2024−03−03 to 2024−03−06

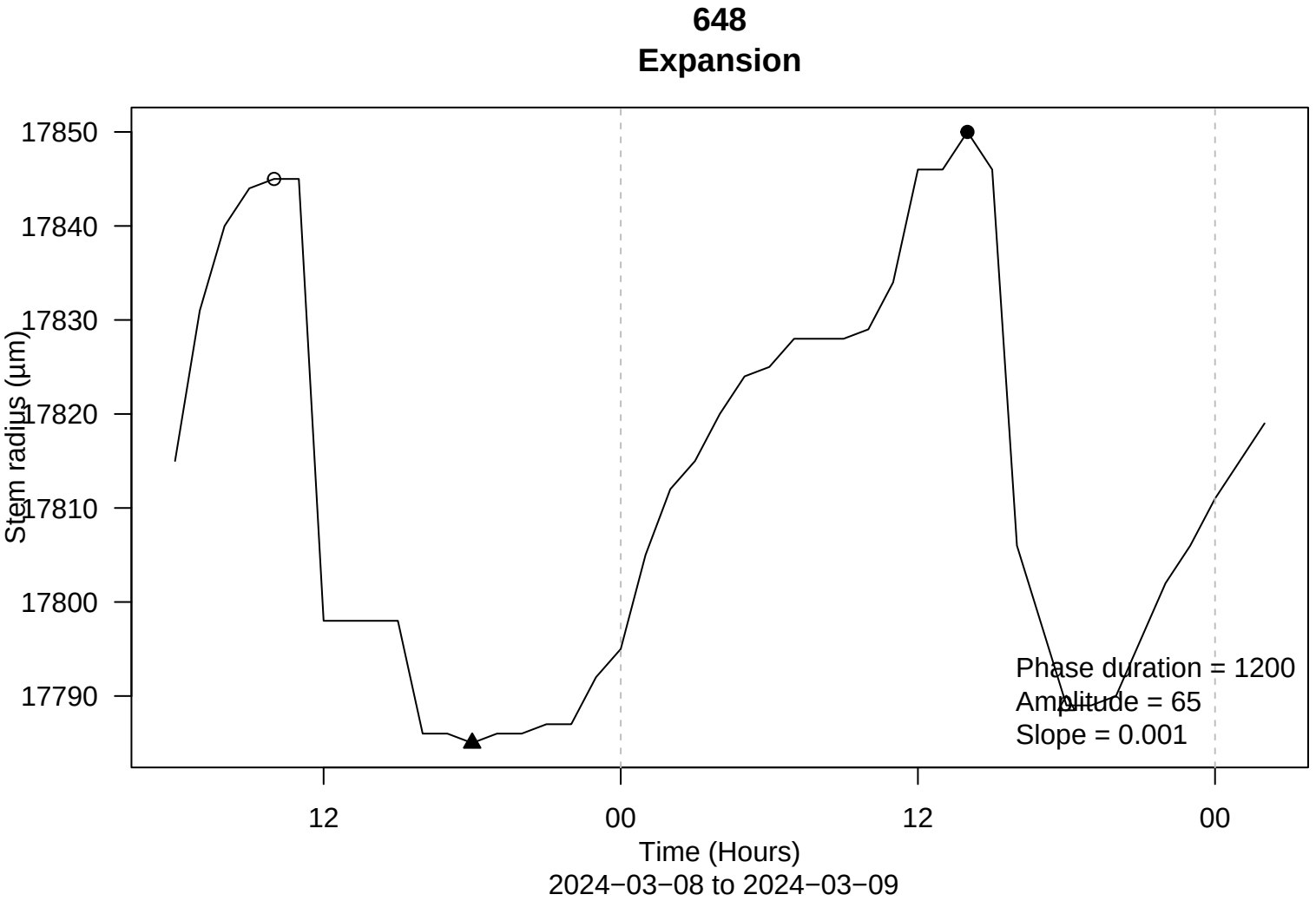

648
Shrinkage
17900
17880
17860
17840
17820
17800
Stem radius (µm)
Phase duration = 600
Amplitude = −69
Slope = −0.002
00
12
00
Time (Hours)
2024−03−06 to 2024−03−06

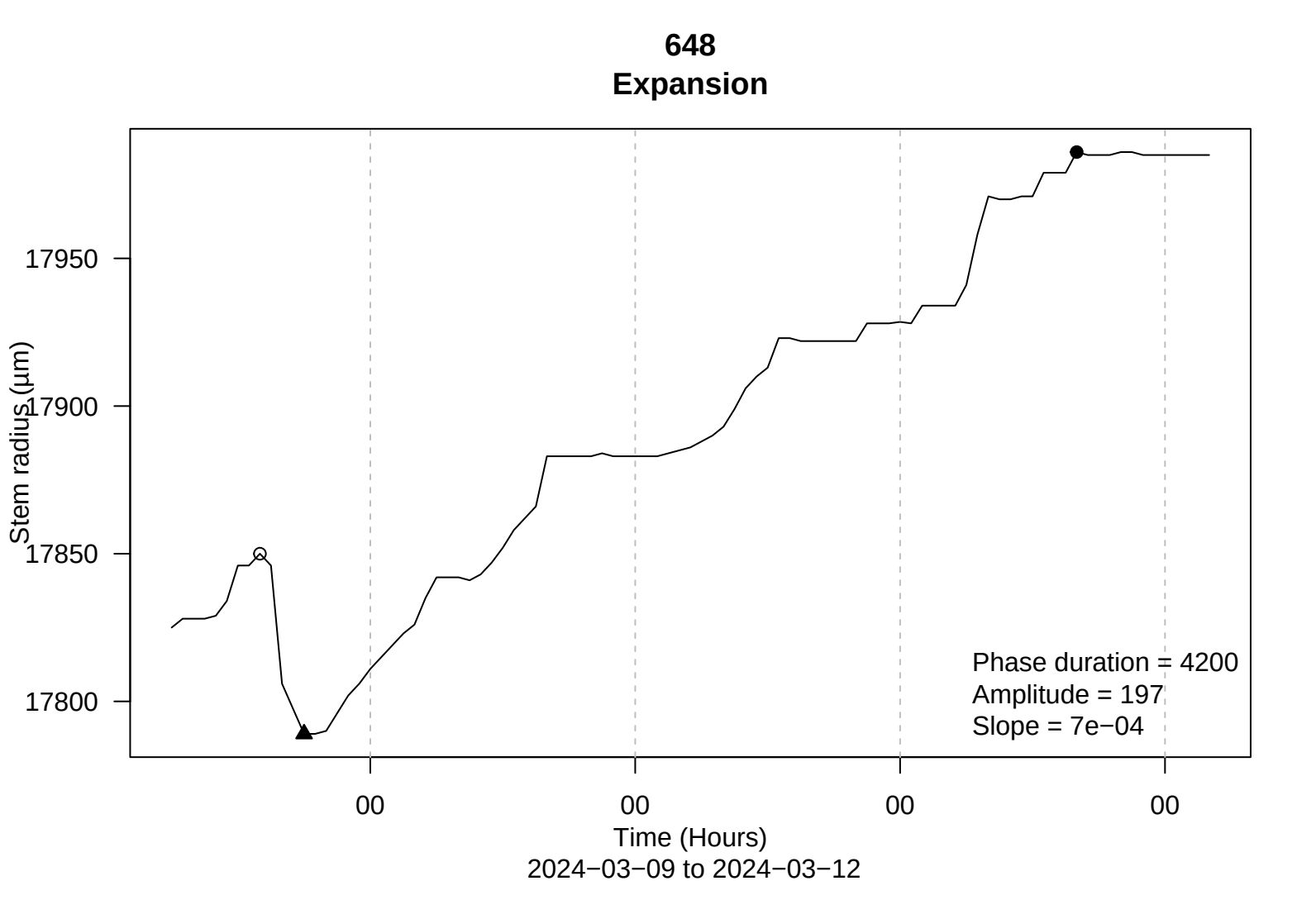

648
Expansion
17900
17850
17800
17750
17700
Stem radius (µm)
Phase duration = 720
Amplitude = 114
Slope = 0.003
12
00
12
Time (Hours)
2024−03−06 to 2024−03−07

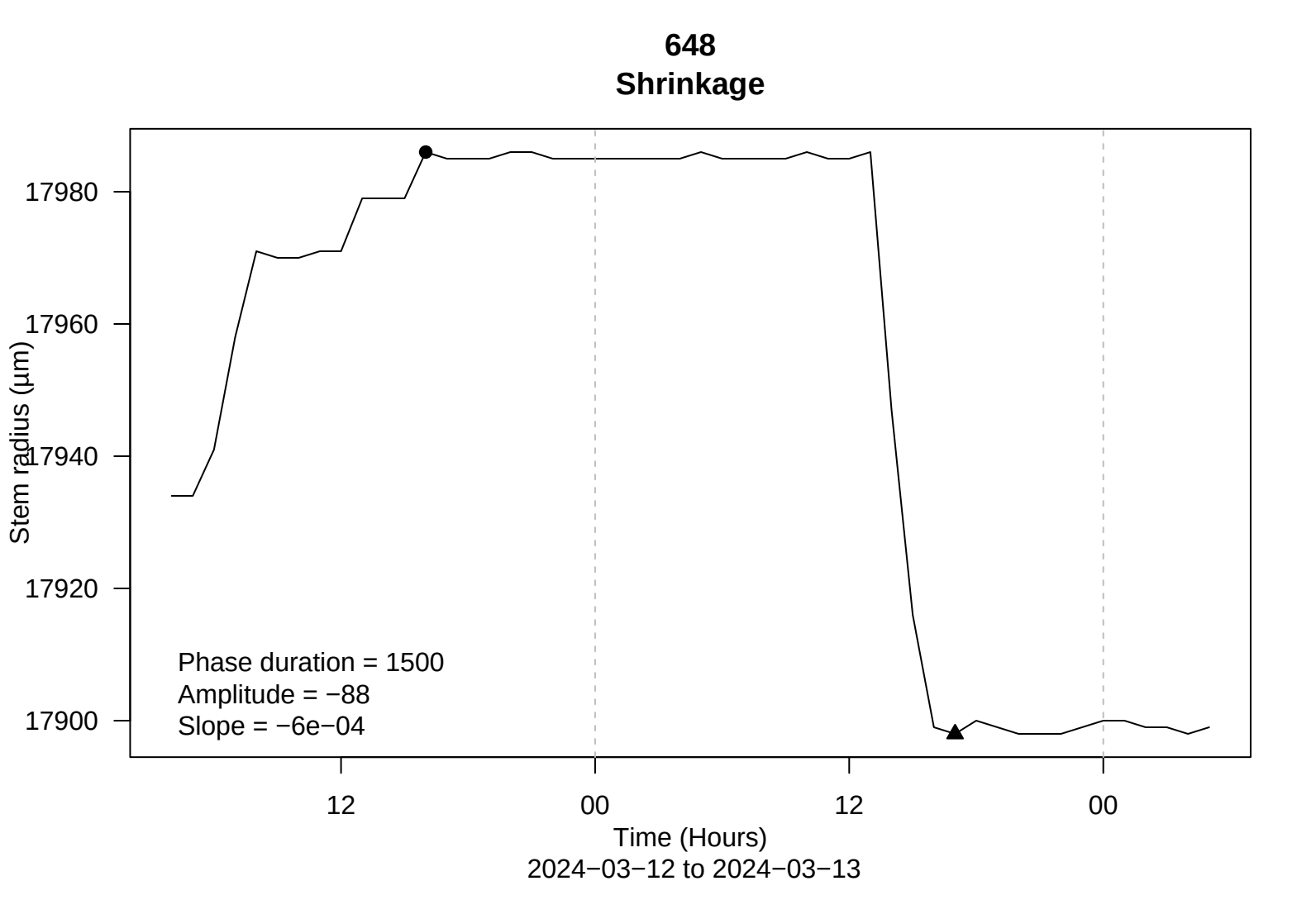

648
Shrinkage
17900
17850
17800
17750
17700
Stem radius (µm)
Phase duration = 420
Amplitude = −235
Slope = −0.0111
00
12
00
Time (Hours)
2024−03−07 to 2024−03−07

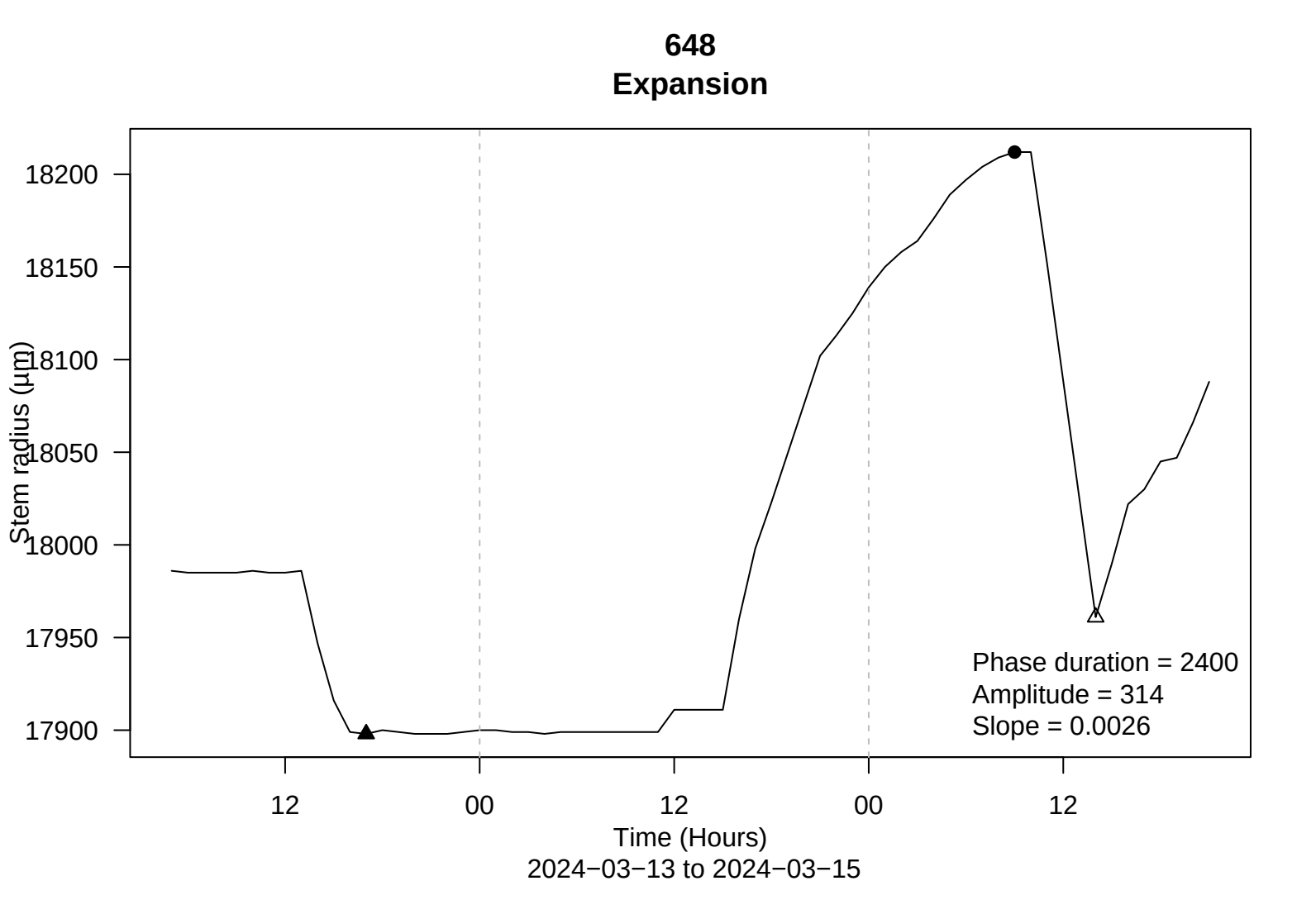

648
Expansion
17900
17850
17800
17750
17700
Stem radius (µm)
12
00
12
Time (Hours)
2024−03−07 to 2024−03−08
Phase duration = 1020
Amplitude = 169
Slope = 0.0034

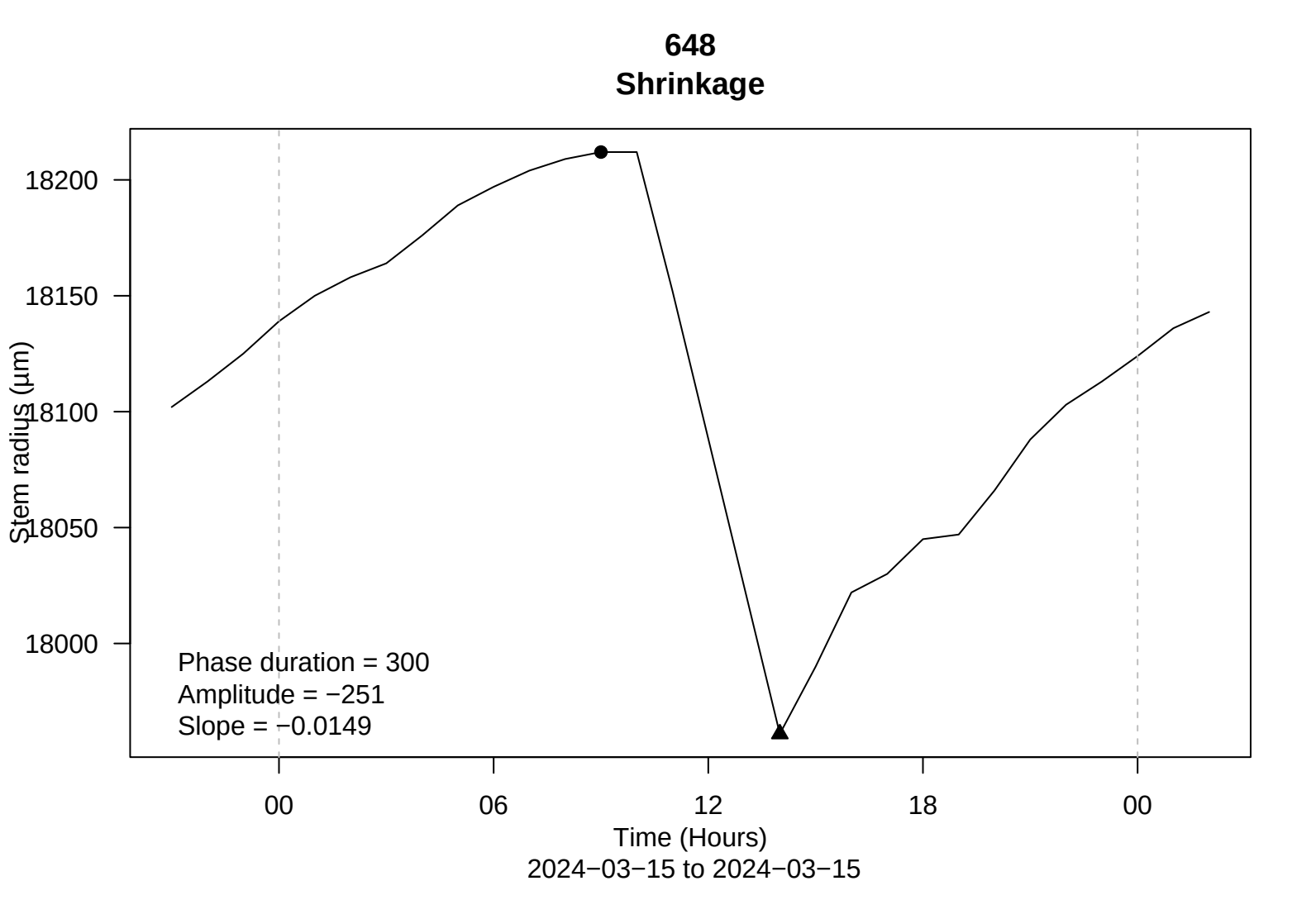

648
Shrinkage
17850
17800
17750
17700
Stem radius (µm)
Phase duration = 480
Amplitude = −60
Slope = −0.002
00
12
00
Time (Hours)
2024−03−08 to 2024−03−08

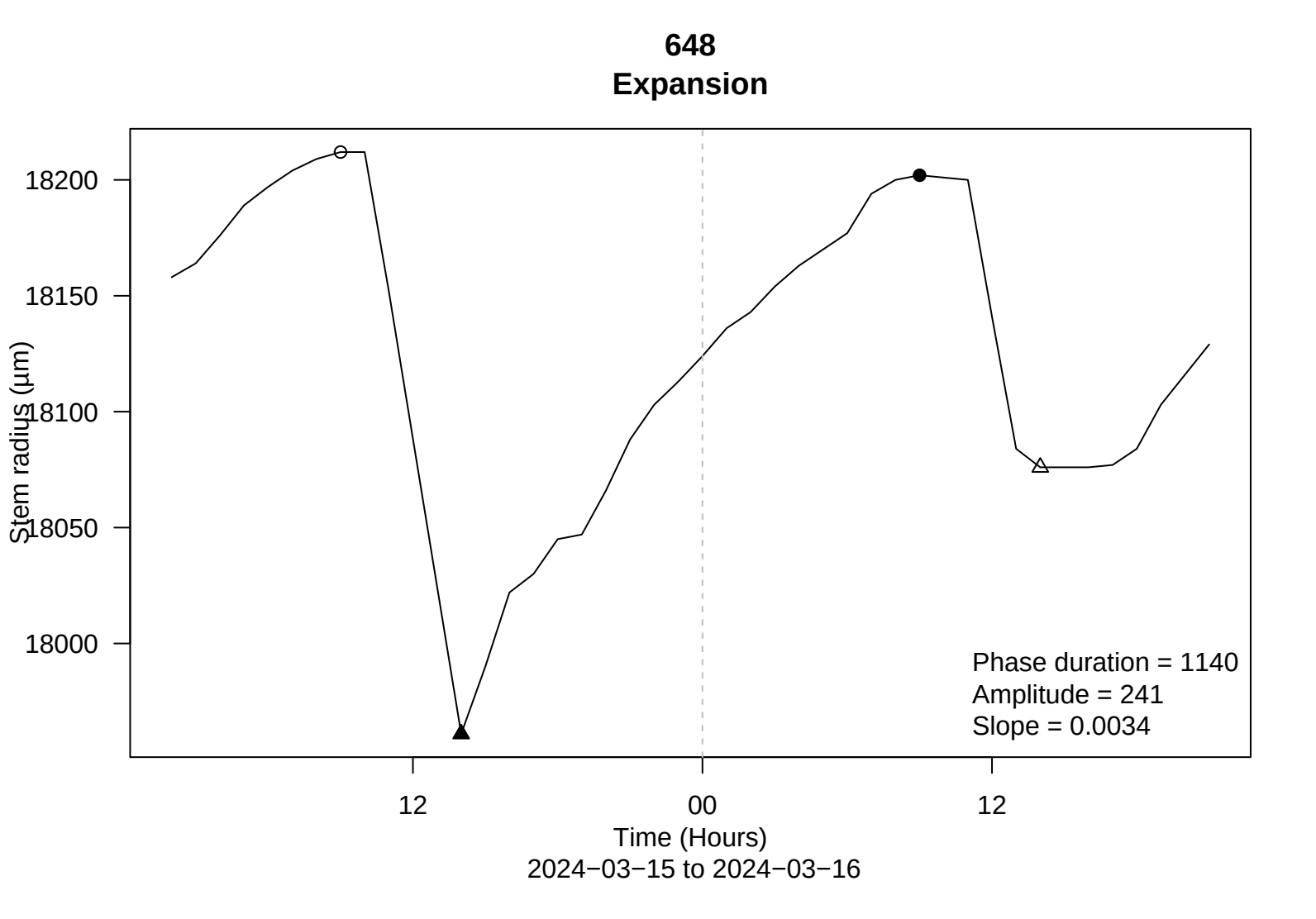

648
Expansion
17850
17840
17830
17820
17810
17800
17790
Stem radius (µm)
Phase duration = 1200
Amplitude = 65
Slope = 0.001
12
00
12
00
Time (Hours)
2024−03−08 to 2024−03−09

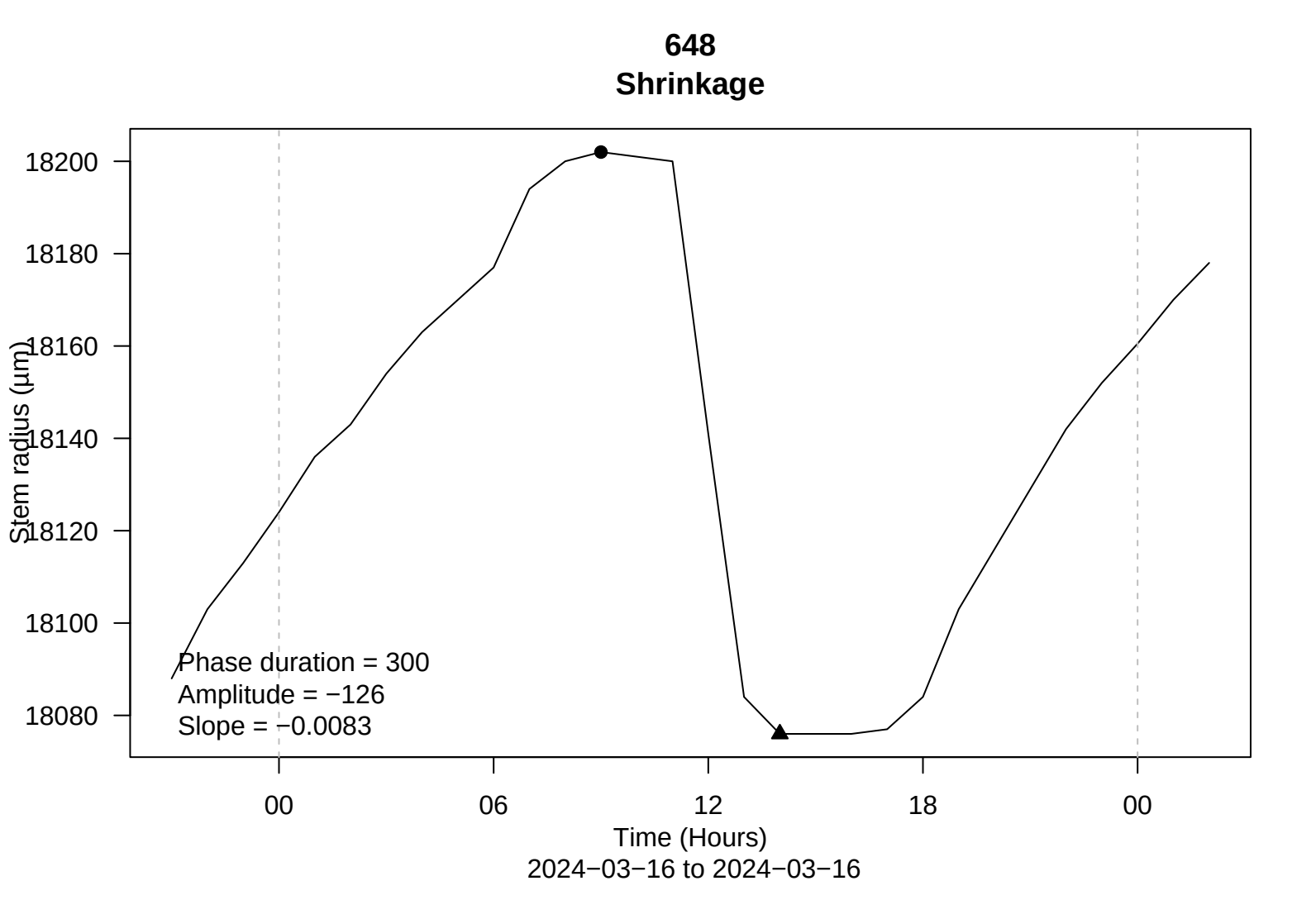

648
Expansion
17950
17900
17850
17800
Stem radius (µm)
00
00
00
00
Time (Hours)
2024−03−09 to 2024−03−12
Phase duration = 4200
Amplitude = 197
Slope = 7e−04

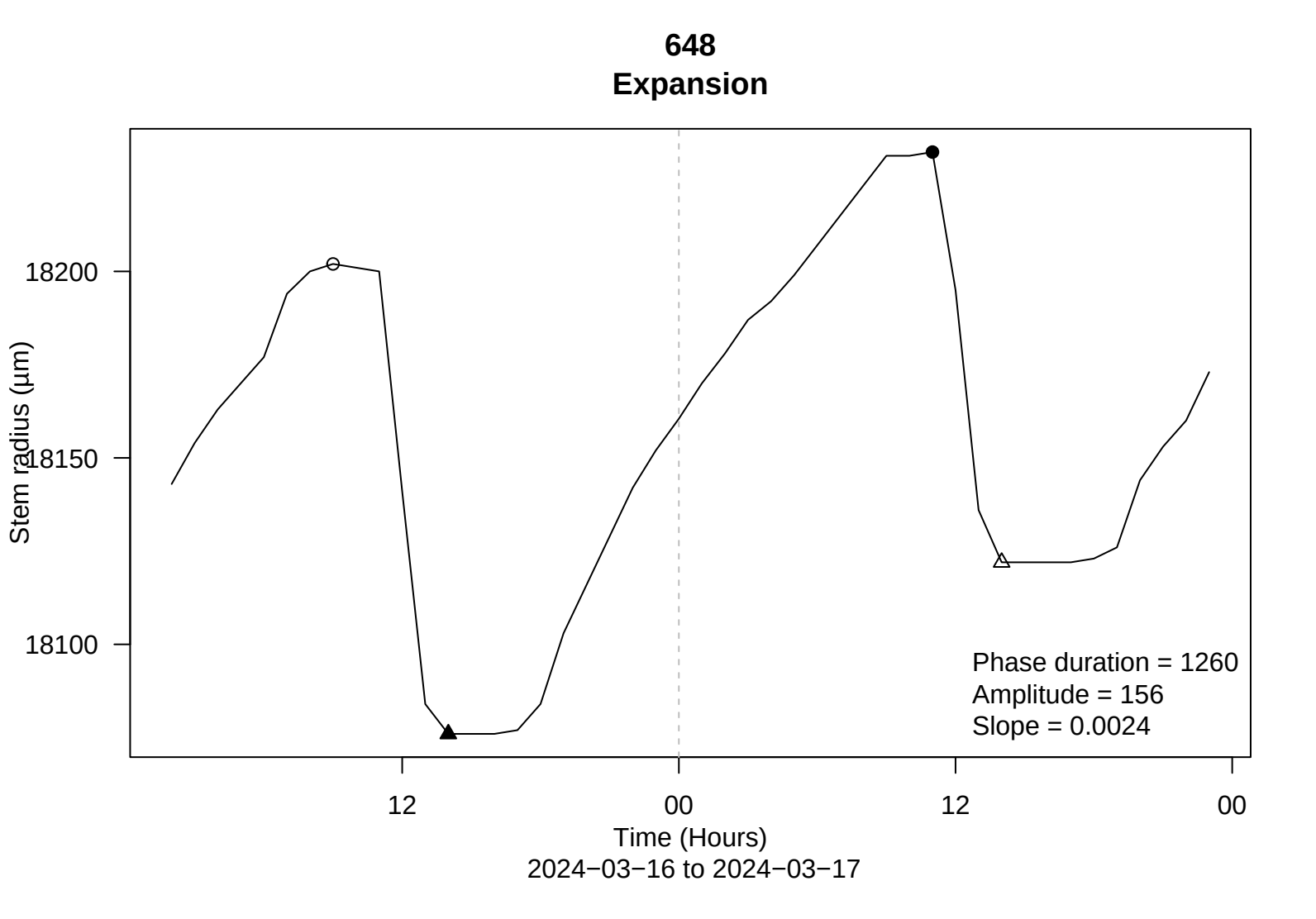

648
Shrinkage
17980
17960
17940
17920
17900
Stem radius (µm)
Phase duration = 1500
Amplitude = −88
Slope = −6e−04
12
00
12
00
Time (Hours)
2024−03−12 to 2024−03−13

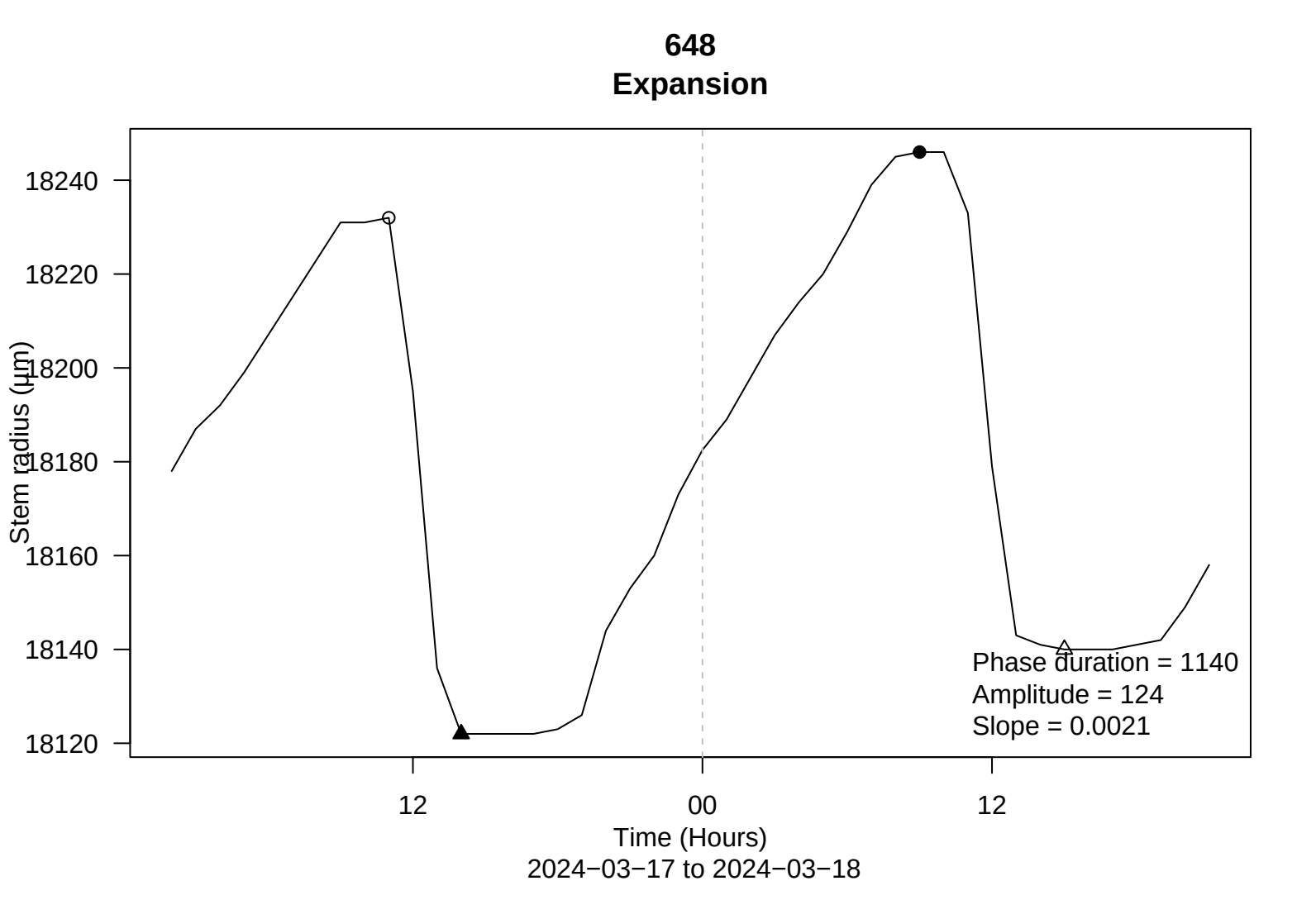

648
Expansion
18200
18150
18100
18050
18000
17950
17900
Stem radius (µm)
12
00
12
00
12
Time (Hours)
2024−03−13 to 2024−03−15
Phase duration = 2400
Amplitude = 314
Slope = 0.0026

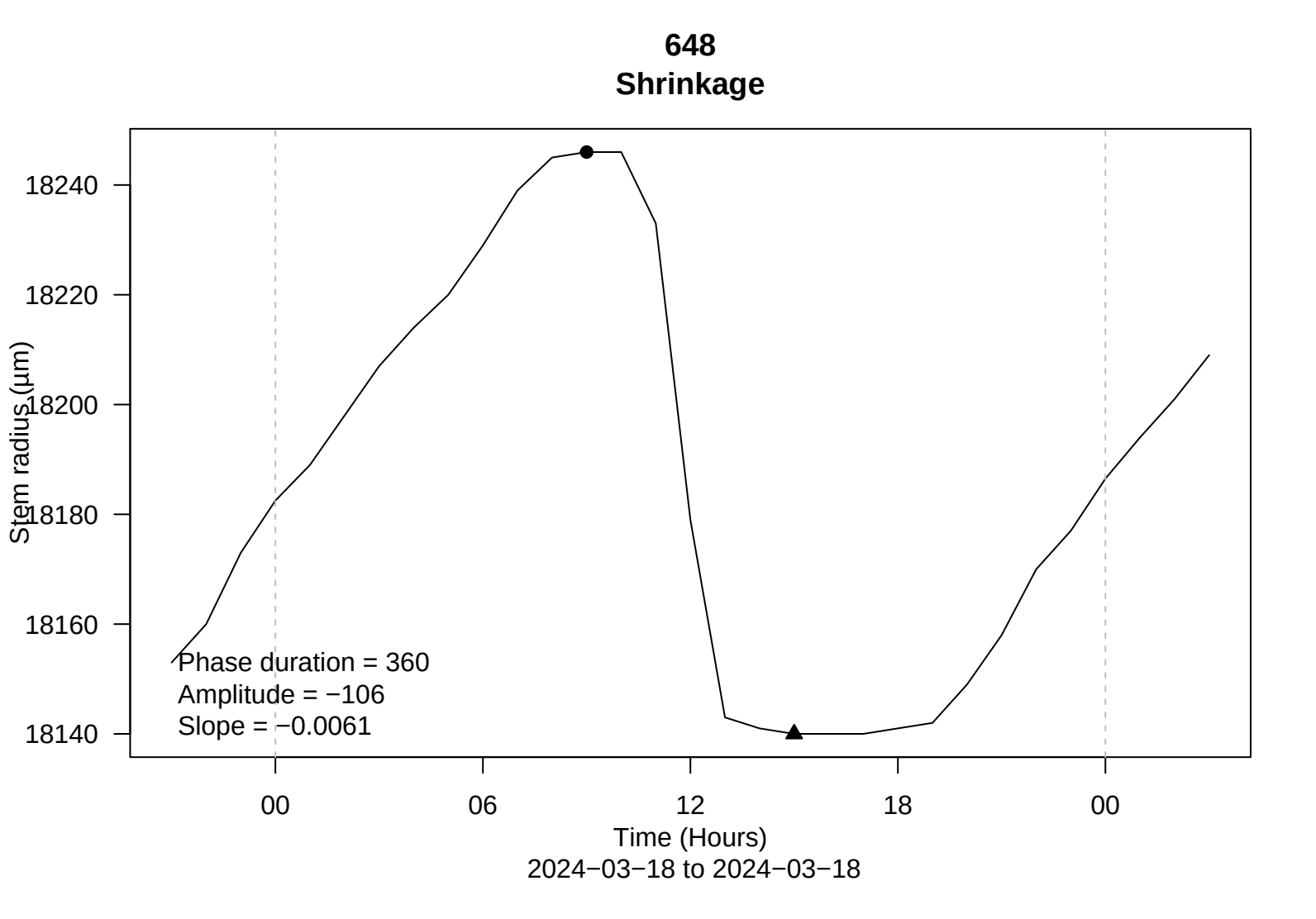

648
Shrinkage
18200
18150
18100
18050
18000
Stem radius (µm)
Phase duration = 300
Amplitude = −251
Slope = −0.0149
00
06
12
18
00
Time (Hours)
2024−03−15 to 2024−03−15

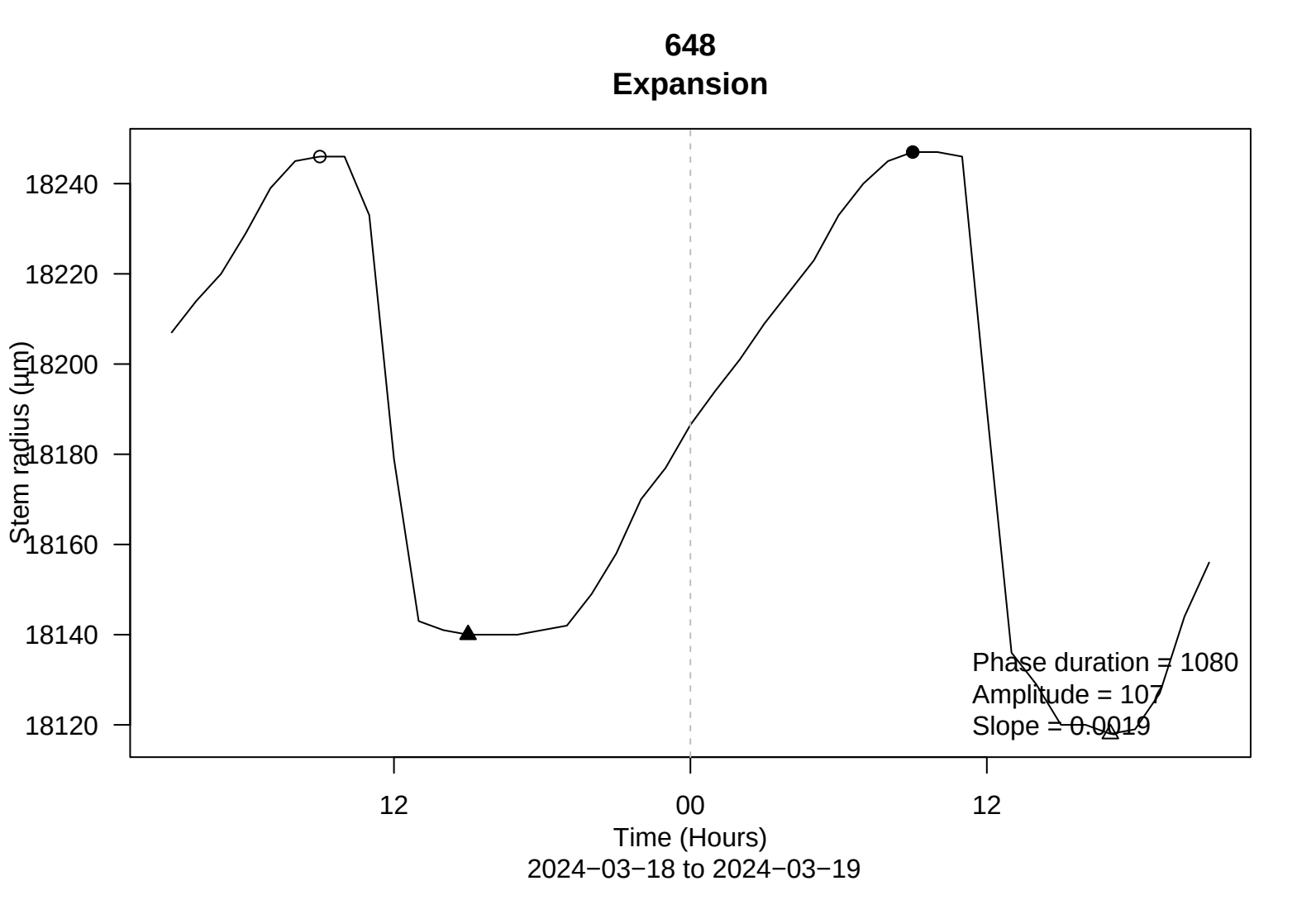

648
Expansion
18200
18150
18100
18050
18000
Stem radius (µm)
Phase duration = 1140
Amplitude = 241
Slope = 0.0034
12
00
12
Time (Hours)
2024−03−15 to 2024−03−16

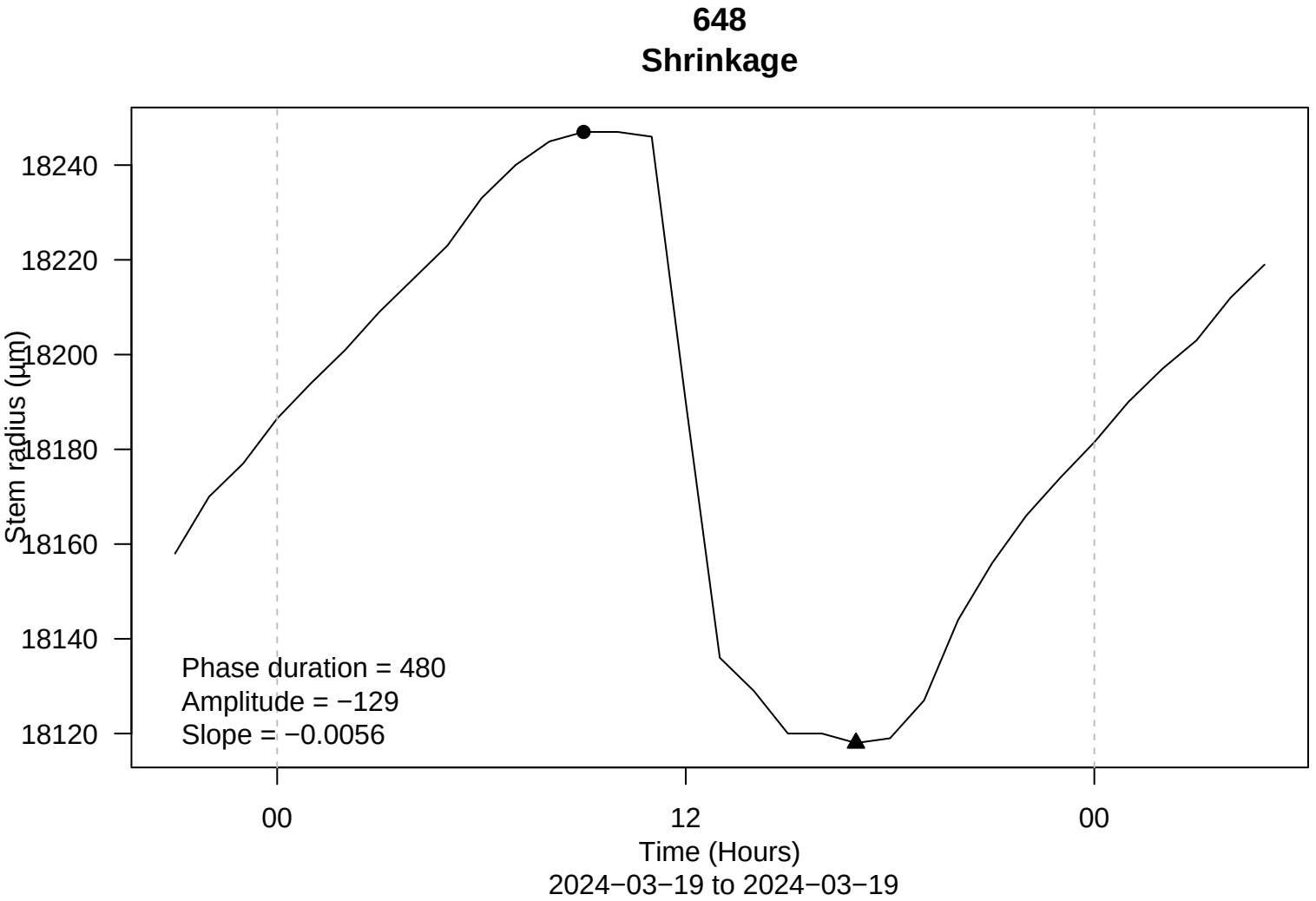

648
Shrinkage
18200
18180
18160
18140
18120
18100
18080
Stem radius (µm)
Phase duration = 300
Amplitude = −126
Slope = −0.0083
00
06
12
18
00
Time (Hours)
2024−03−16 to 2024−03−16

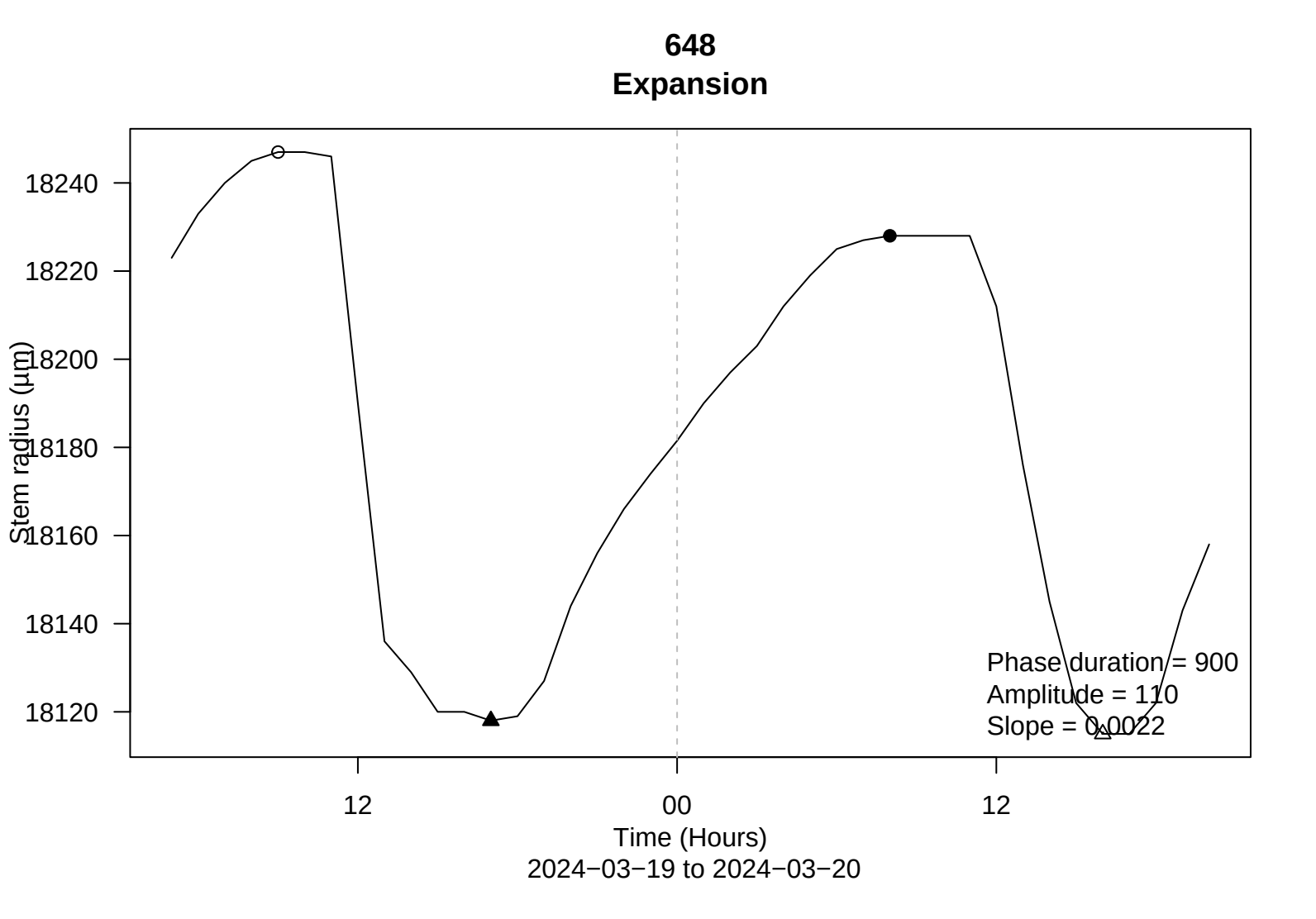

648
Expansion
18200
18150
18100
Stem radius (µm)
Phase duration = 1260
Amplitude = 156
Slope = 0.0024
12
00
12
00
Time (Hours)
2024−03−16 to 2024−03−17

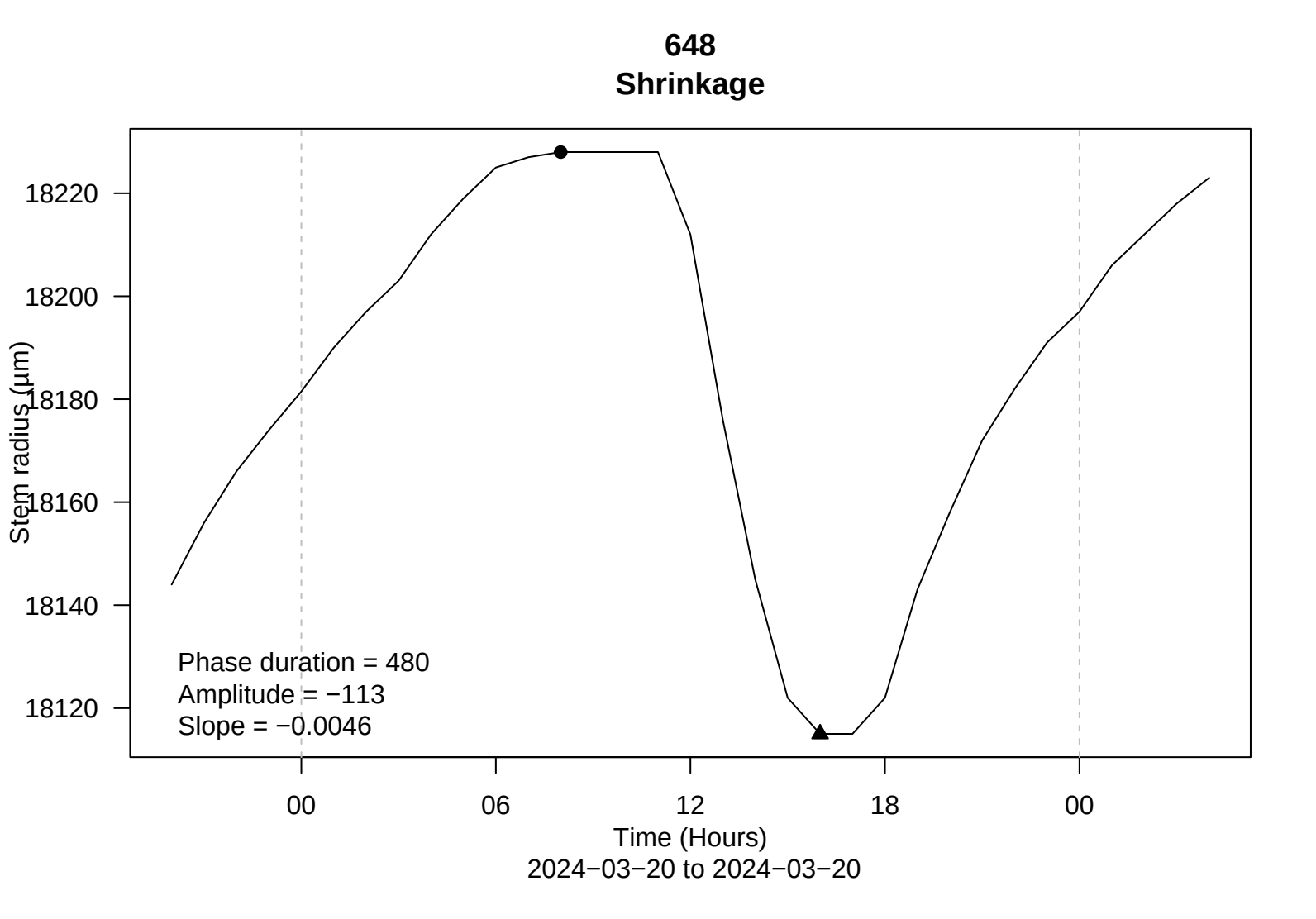

648
Expansion
18240
18220
18200
18180
18160
18140
18120
Stem radius (µm)
12
00
12
Time (Hours)
2024−03−17 to 2024−03−18
Phase duration = 1140
Amplitude = 124
Slope = 0.0021

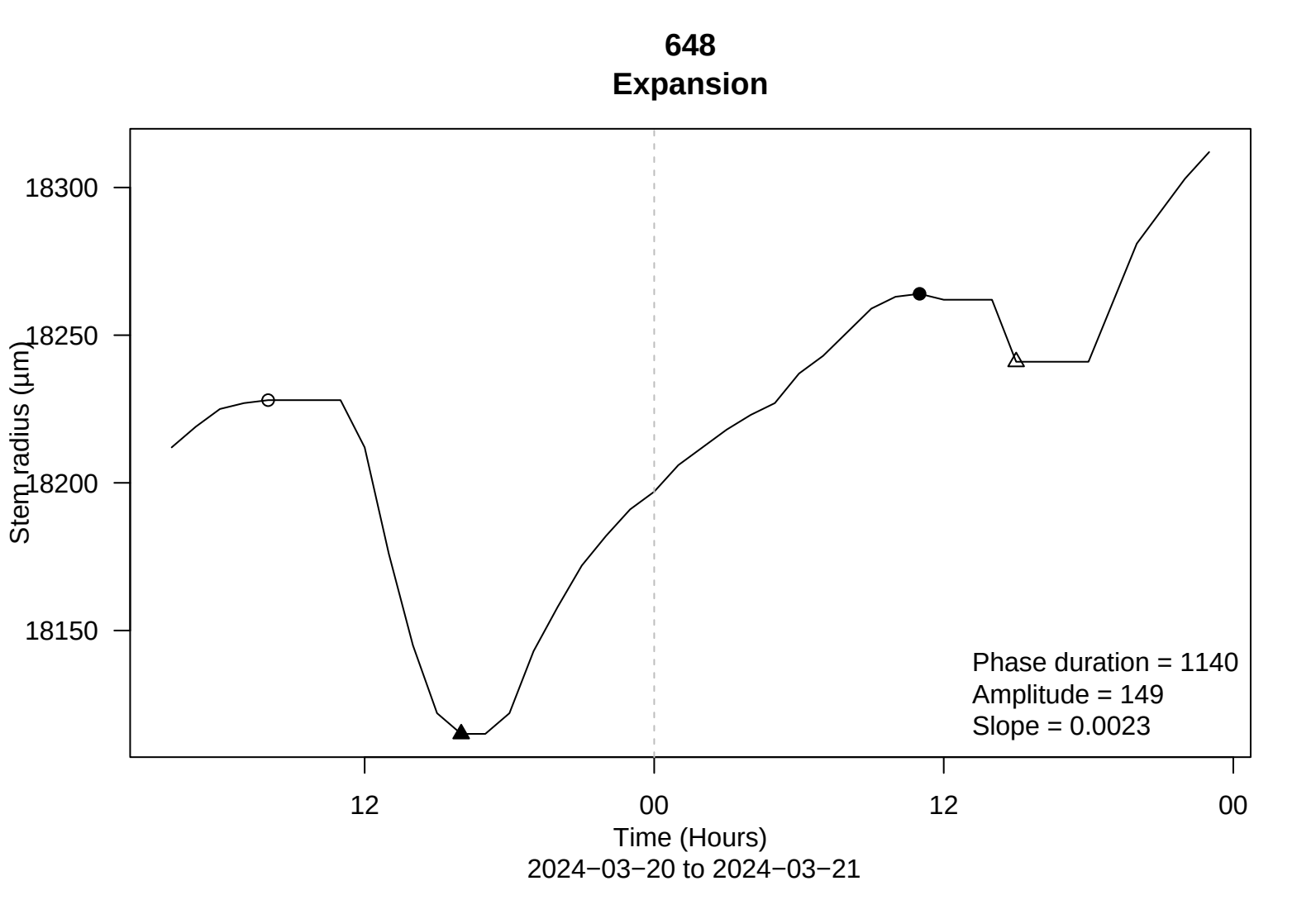

648
Shrinkage
18240
18220
18200
18180
18160
18140
Stem radius (µm)
Phase duration = 360
Amplitude = −106
Slope = −0.0061
00
06
12
18
00
Time (Hours)
2024−03−18 to 2024−03−18

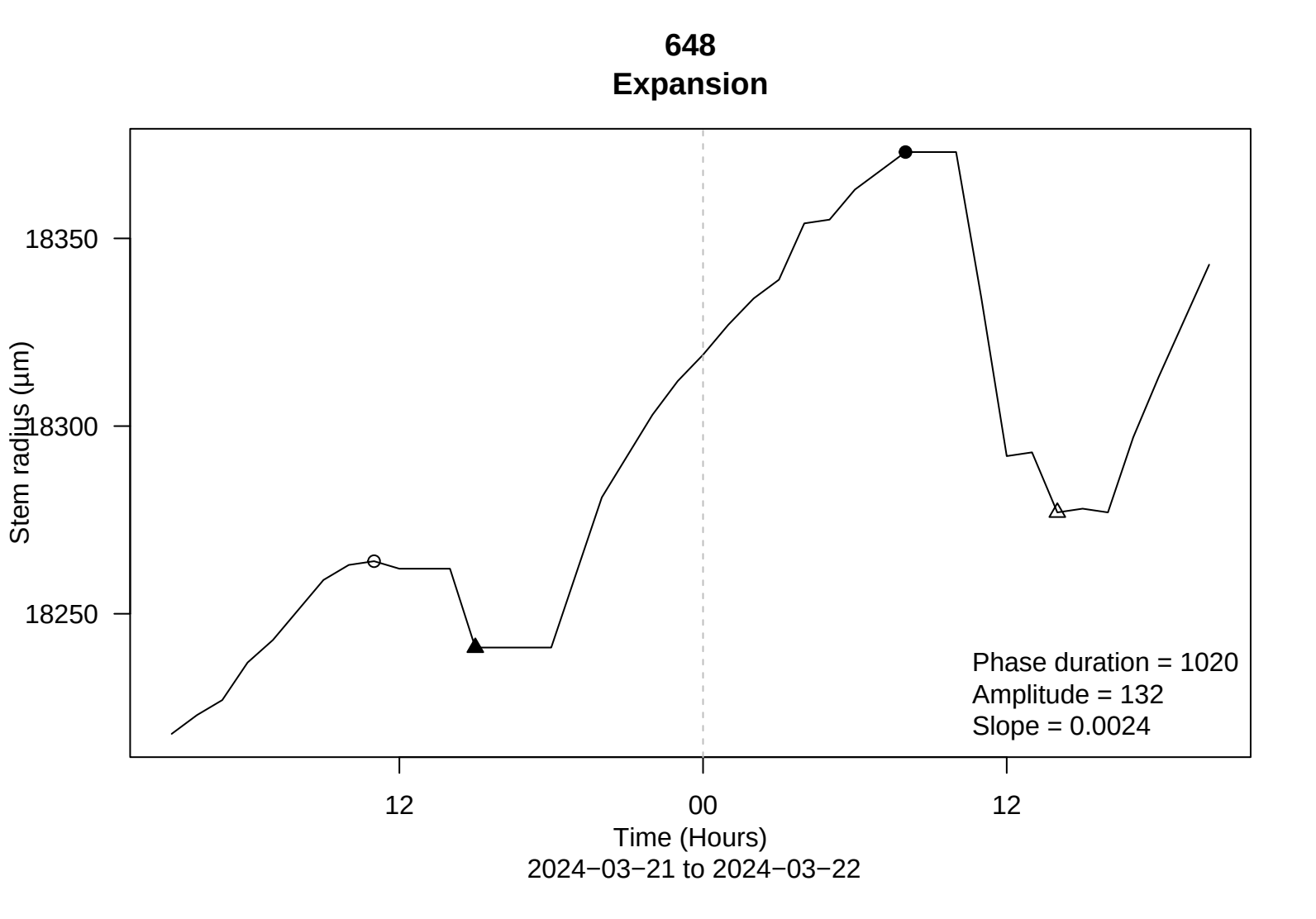

648
Expansion
18240
18220
18200
18180
18160
18140
18120
Stem radius (µm)
12
00
12
Time (Hours)
2024−03−18 to 2024−03−19
Phase duration = 1080
Amplitude = 107
Slope = 0.0019

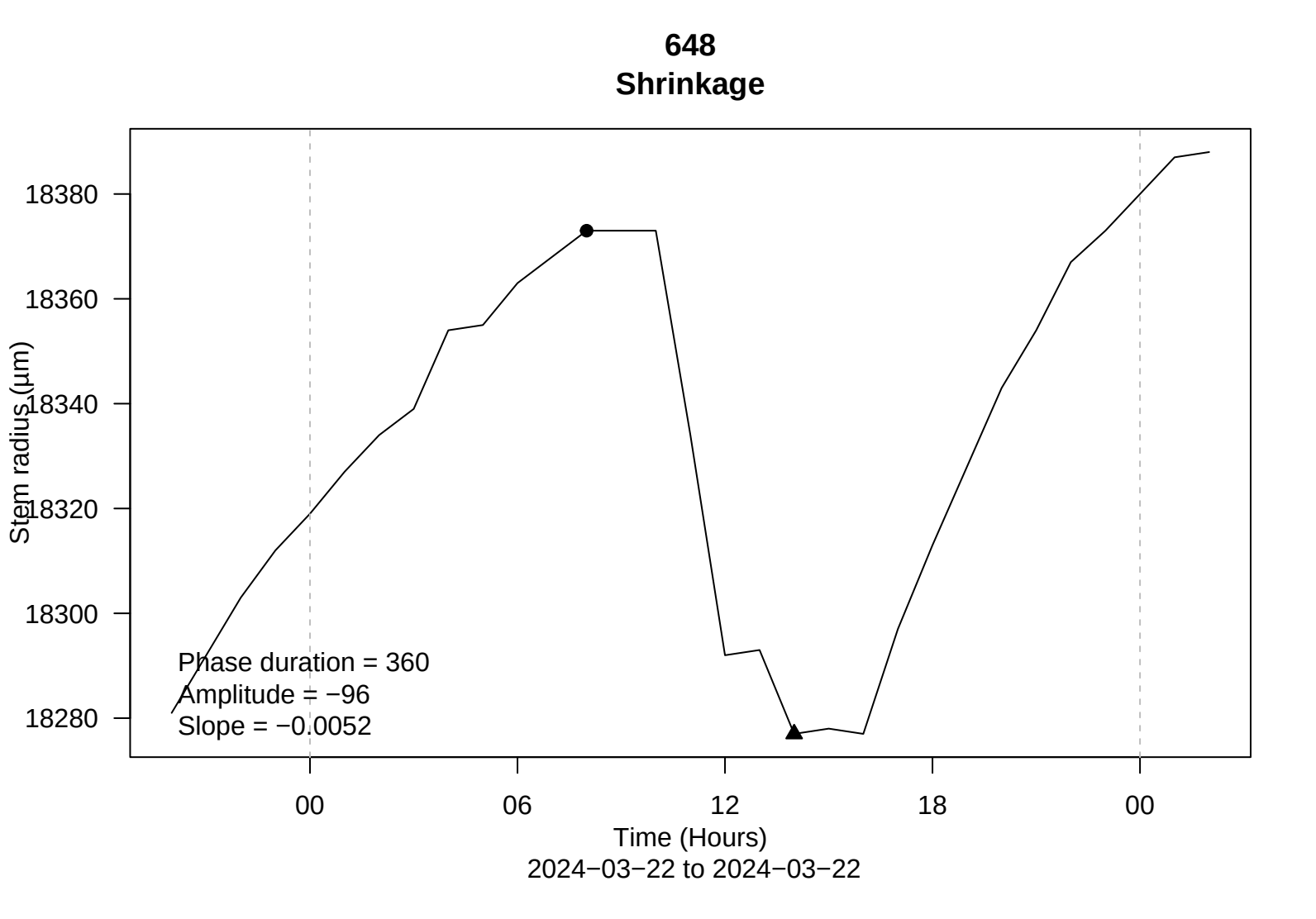

648
Shrinkage
18240
18220
18200
18180
18160
18140
18120
Stem radius (µm)
Phase duration = 480
Amplitude = −129
Slope = −0.0056
00
12
00
Time (Hours)
2024−03−19 to 2024−03−19

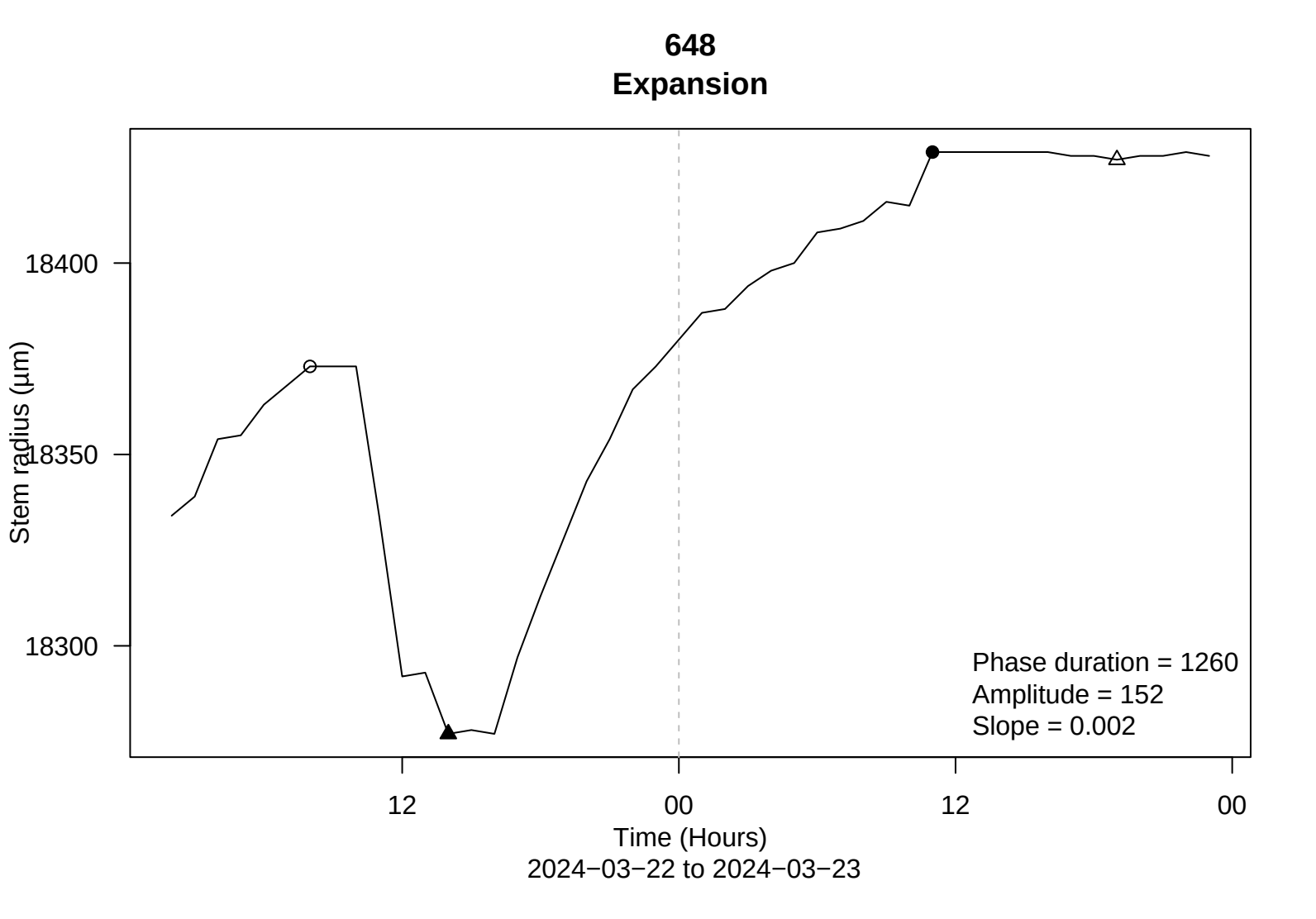

648
Expansion
18240
18220
18200
18180
18160
18140
18120
Stem radius (µm)
Phase duration = 900
Amplitude = 110
Slope = 0.0022
12
00
12
Time (Hours)
2024−03−19 to 2024−03−20

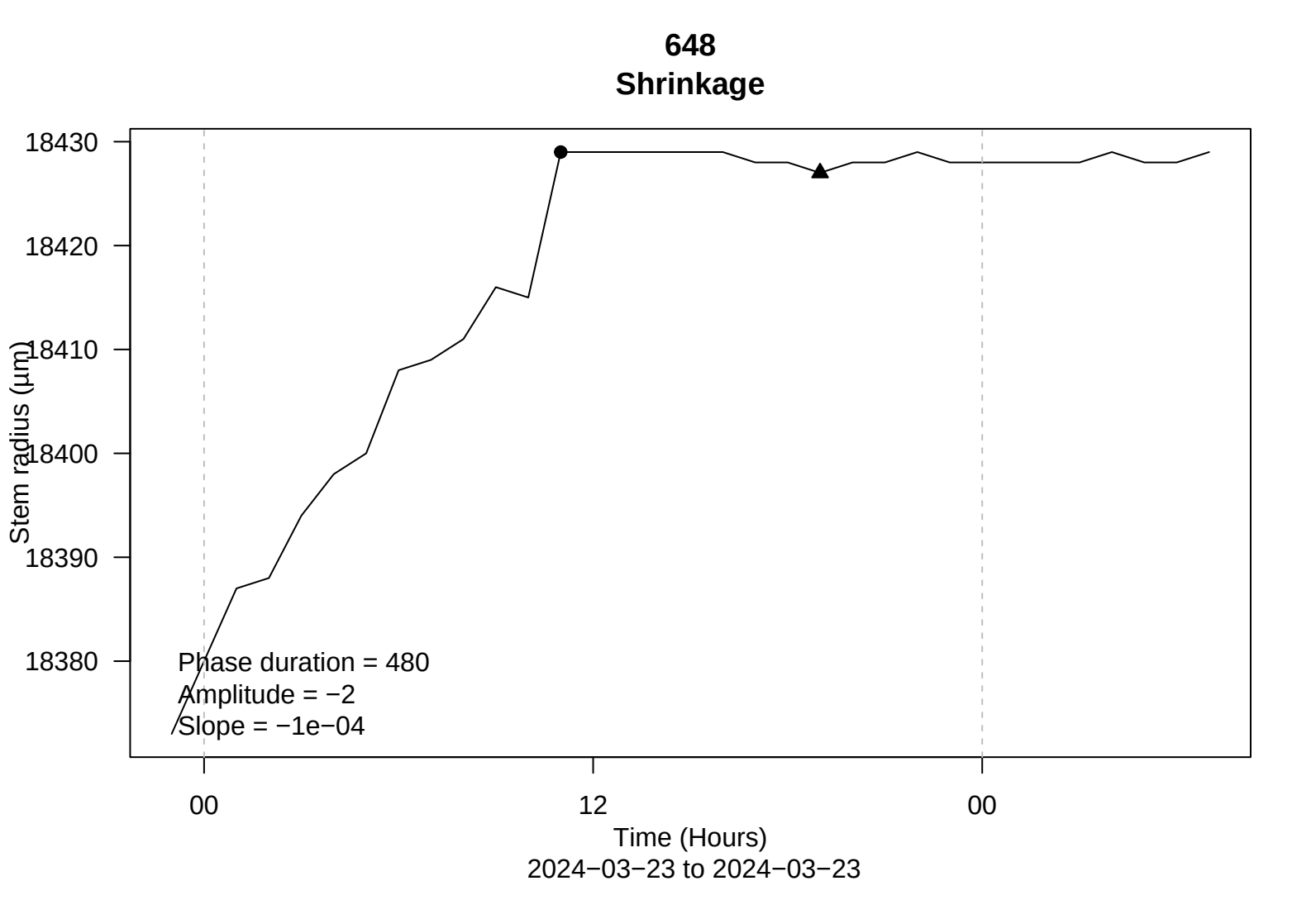

648
Shrinkage
18220
18200
18180
18160
18140
18120
Stem radius (µm)
Phase duration = 480
Amplitude = −113
Slope = −0.0046
00
06
12
18
00
Time (Hours)
2024−03−20 to 2024−03−20

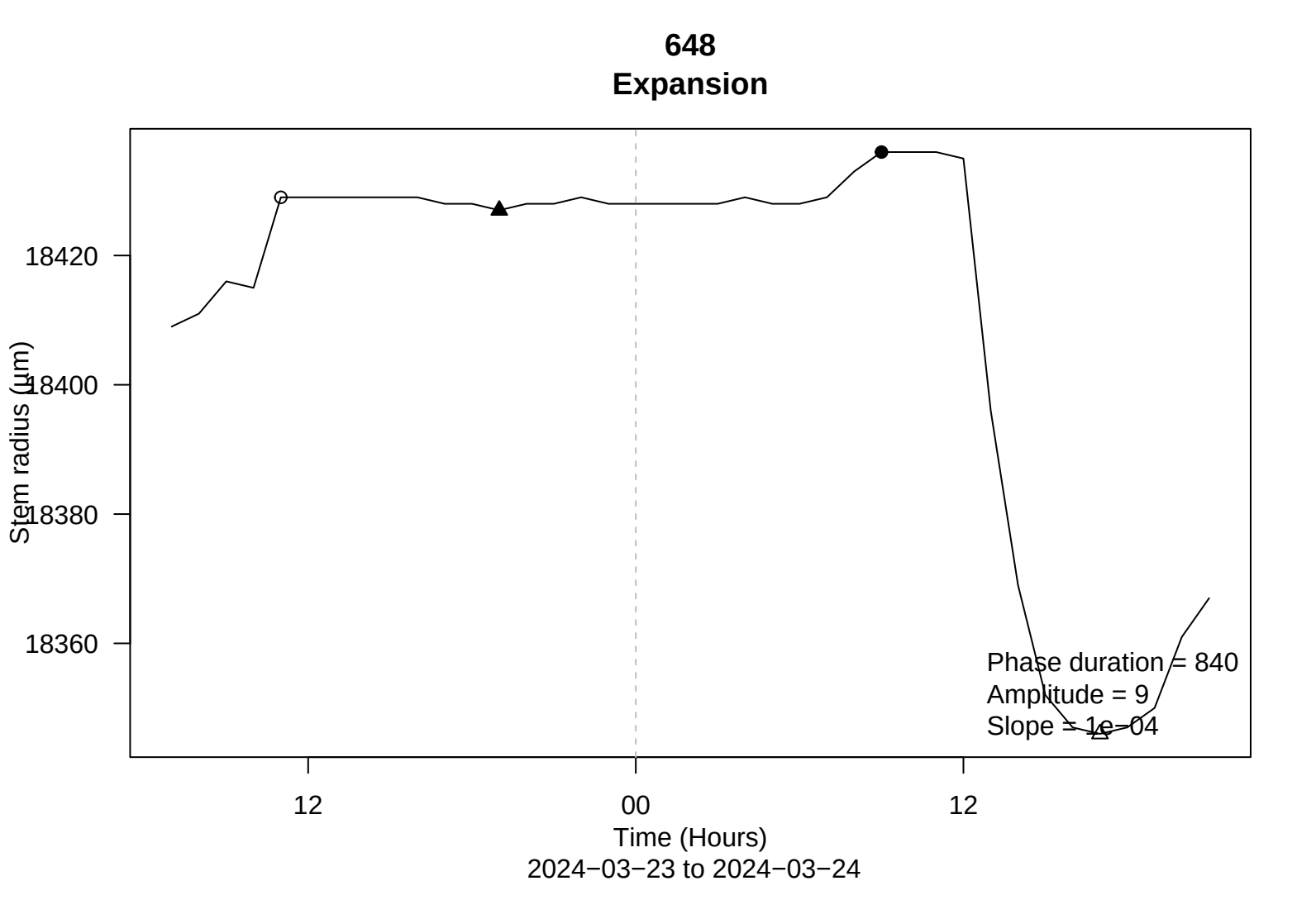

648
Expansion
18300
18250
18200
18150
Stem radius (µm)
Phase duration = 1140
Amplitude = 149
Slope = 0.0023
12
00
12
00
Time (Hours)
2024−03−20 to 2024−03−21

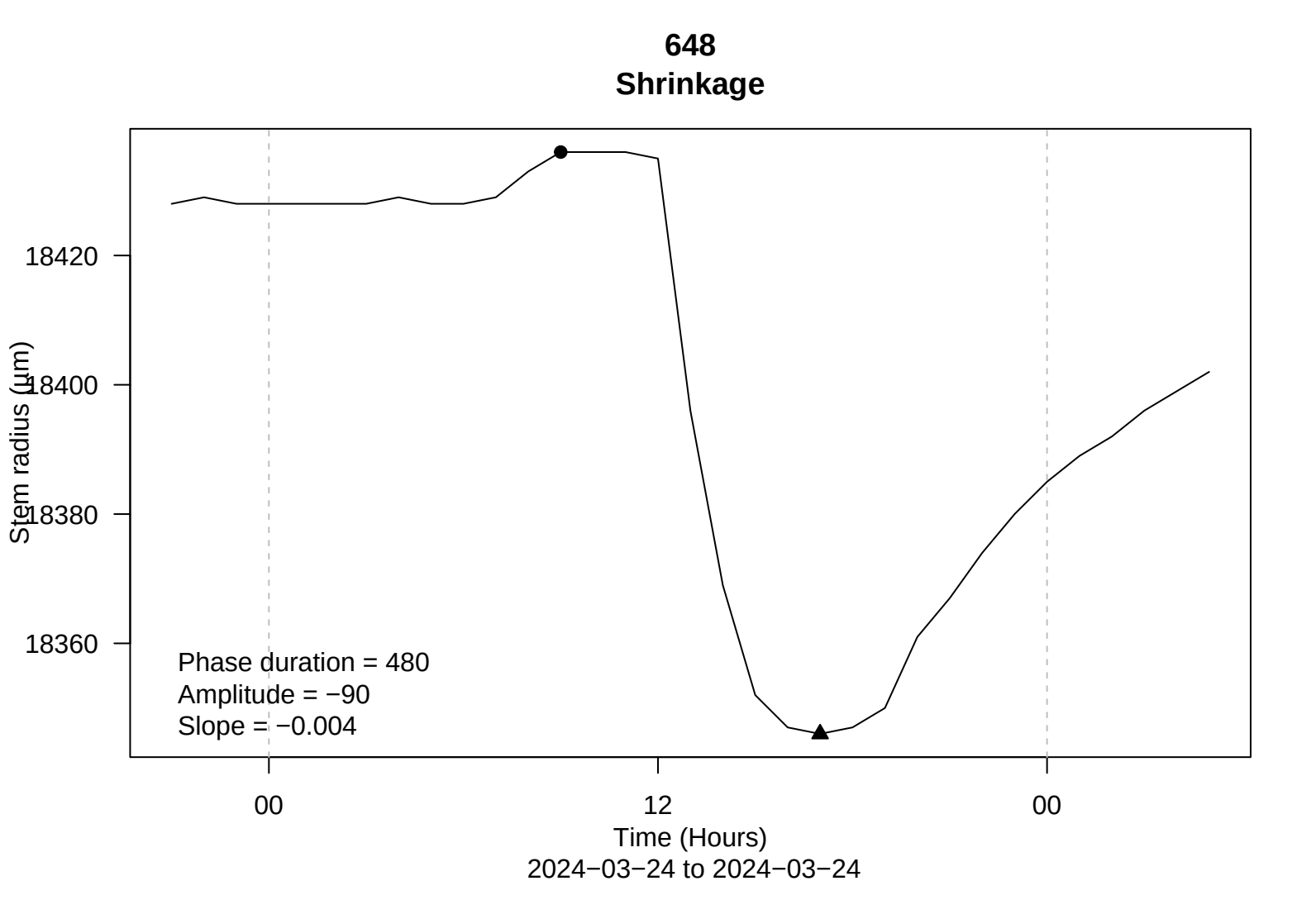

648
Expansion
18350
18300
18250
Stem radius (µm)
Phase duration = 1020
Amplitude = 132
Slope = 0.0024
12
00
12
Time (Hours)
2024−03−21 to 2024−03−22

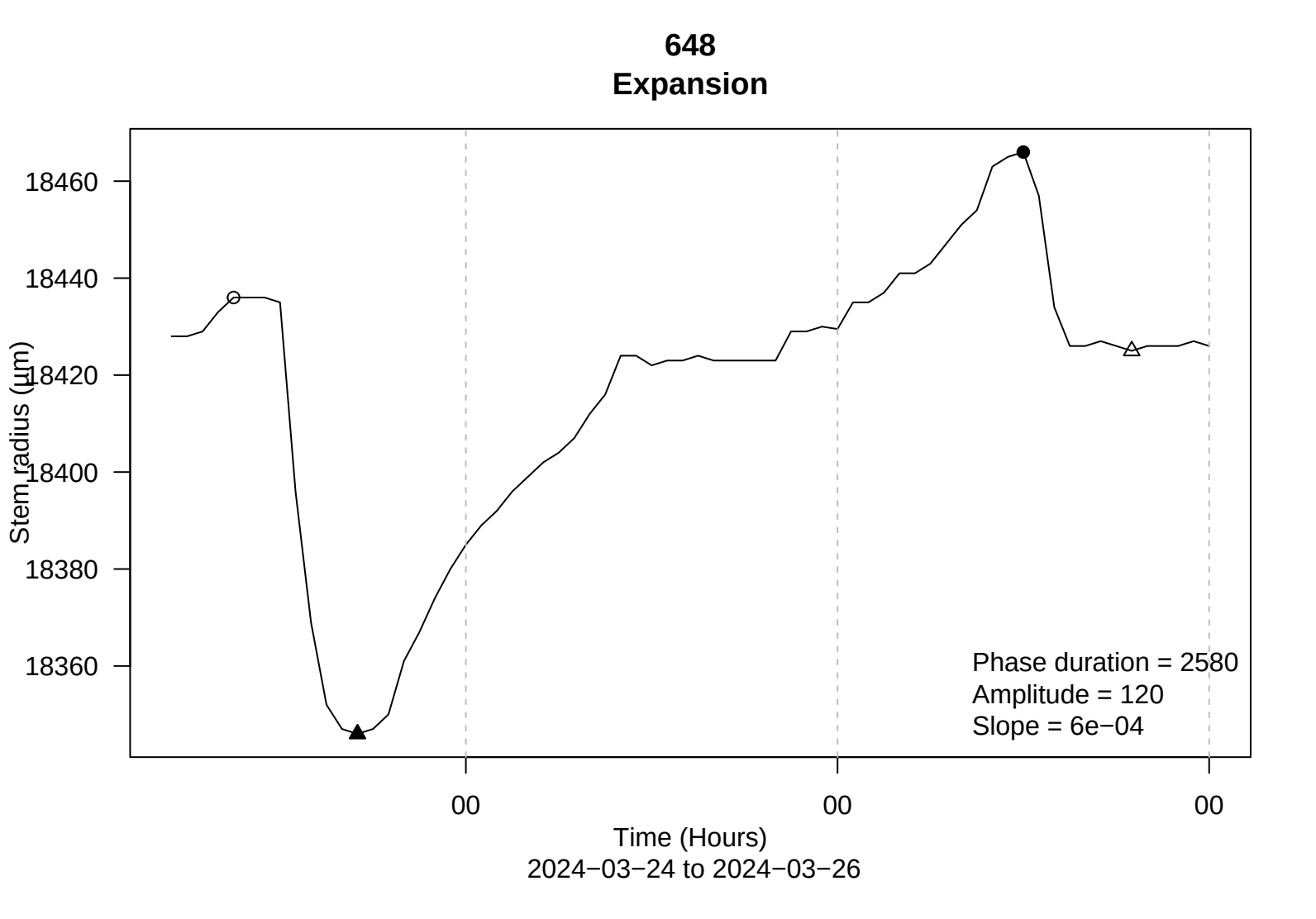

648
Shrinkage
18380
18360
18340
18320
18300
18280
Stem radius (µm)
Phase duration = 360
Amplitude = −96
Slope = −0.0052
00
06
12
18
00
Time (Hours)
2024−03−22 to 2024−03−22

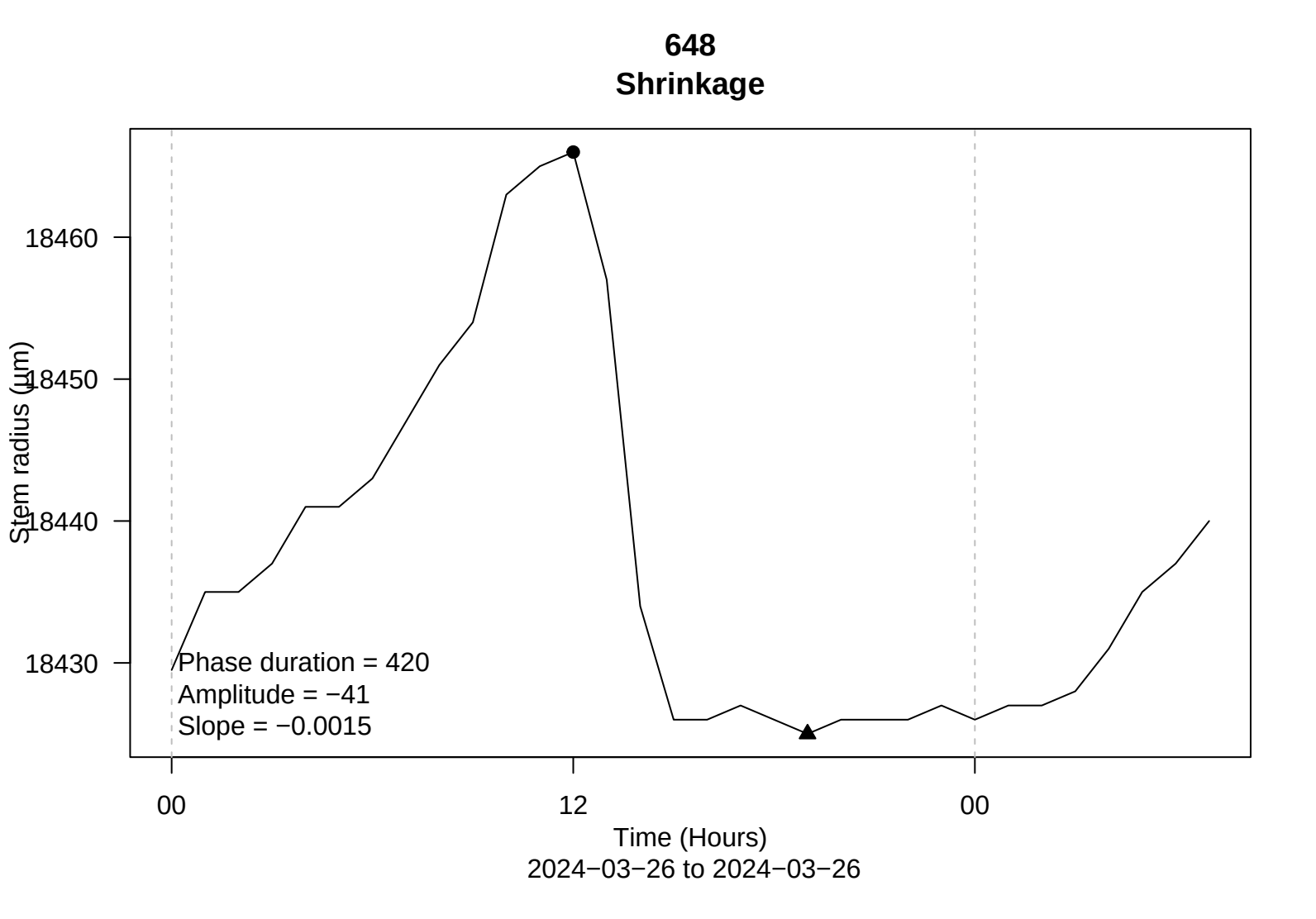

648
Expansion
18400
18350
18300
Stem radius (µm)
Phase duration = 1260
Amplitude = 152
Slope = 0.002
12
00
12
00
Time (Hours)
2024−03−22 to 2024−03−23

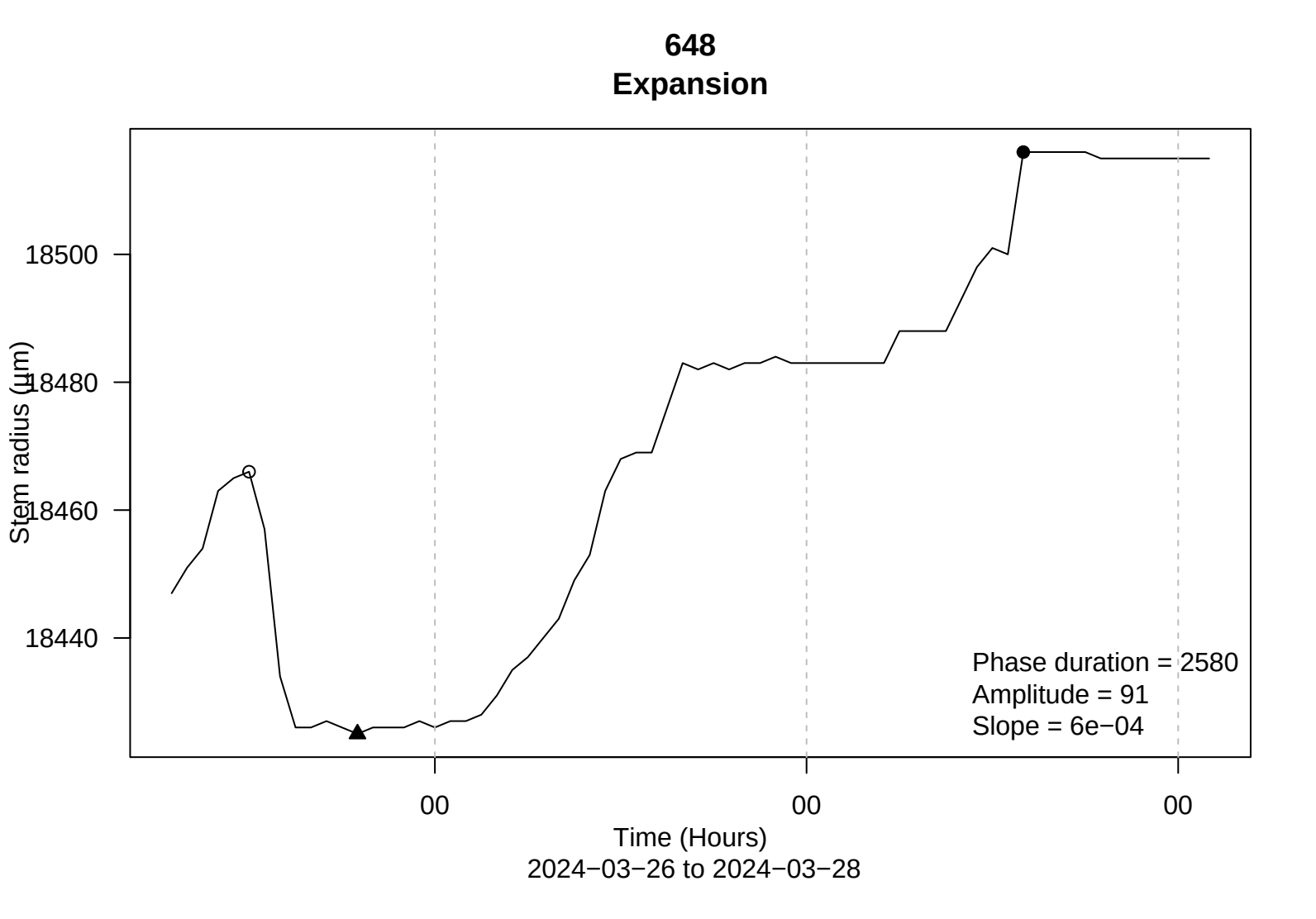

648
Shrinkage
18430
18420
18410
18400
18390
18380
Stem radius (µm)
Phase duration = 480
Amplitude = −2
Slope = −1e−04
00
12
00
Time (Hours)
2024−03−23 to 2024−03−23

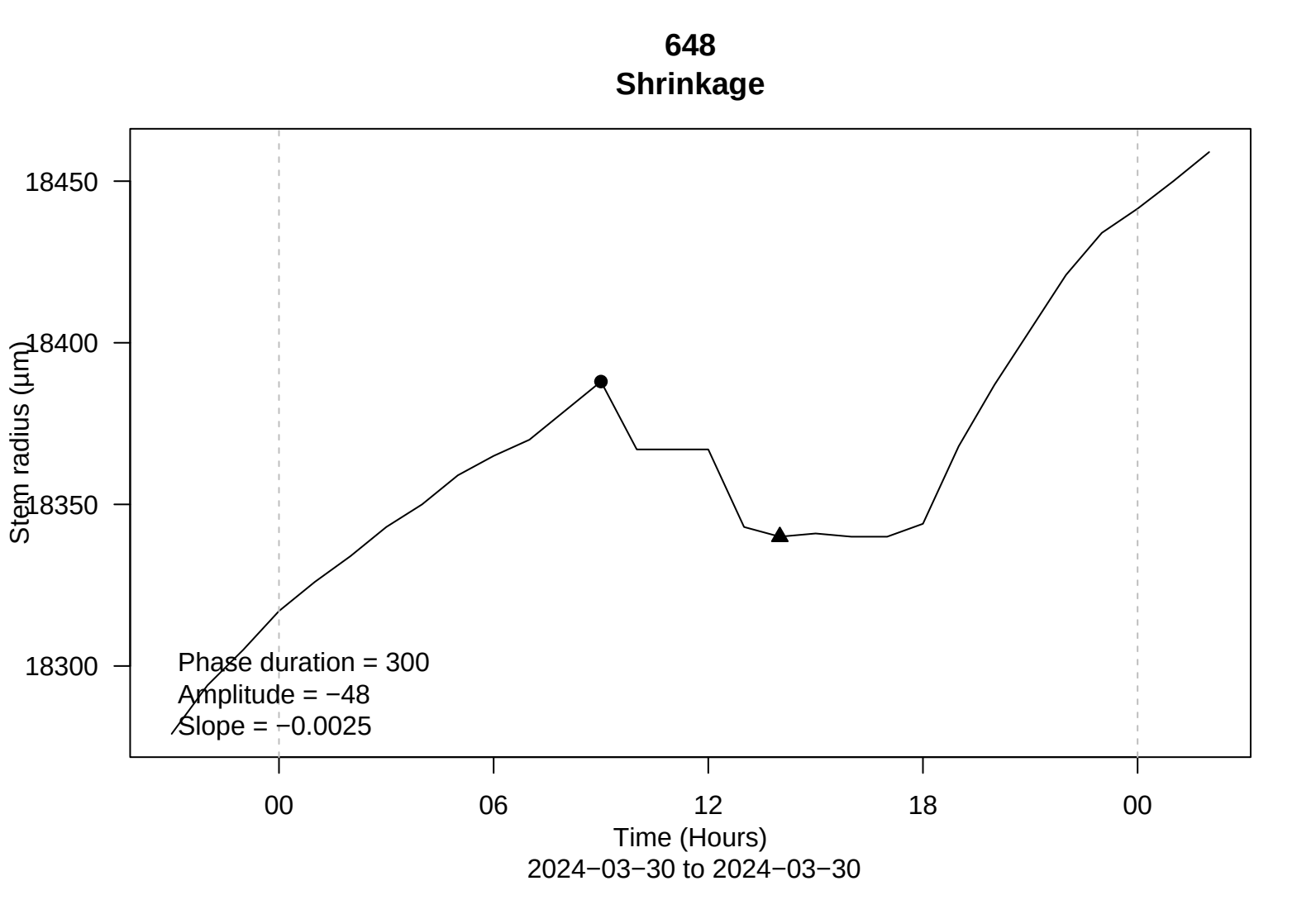

648
Expansion
18420
18400
18380
18360
Stem radius (µm)
Phase duration = 840
Amplitude = 9
Slope = 1e−04
12
00
12
Time (Hours)
2024−03−23 to 2024−03−24

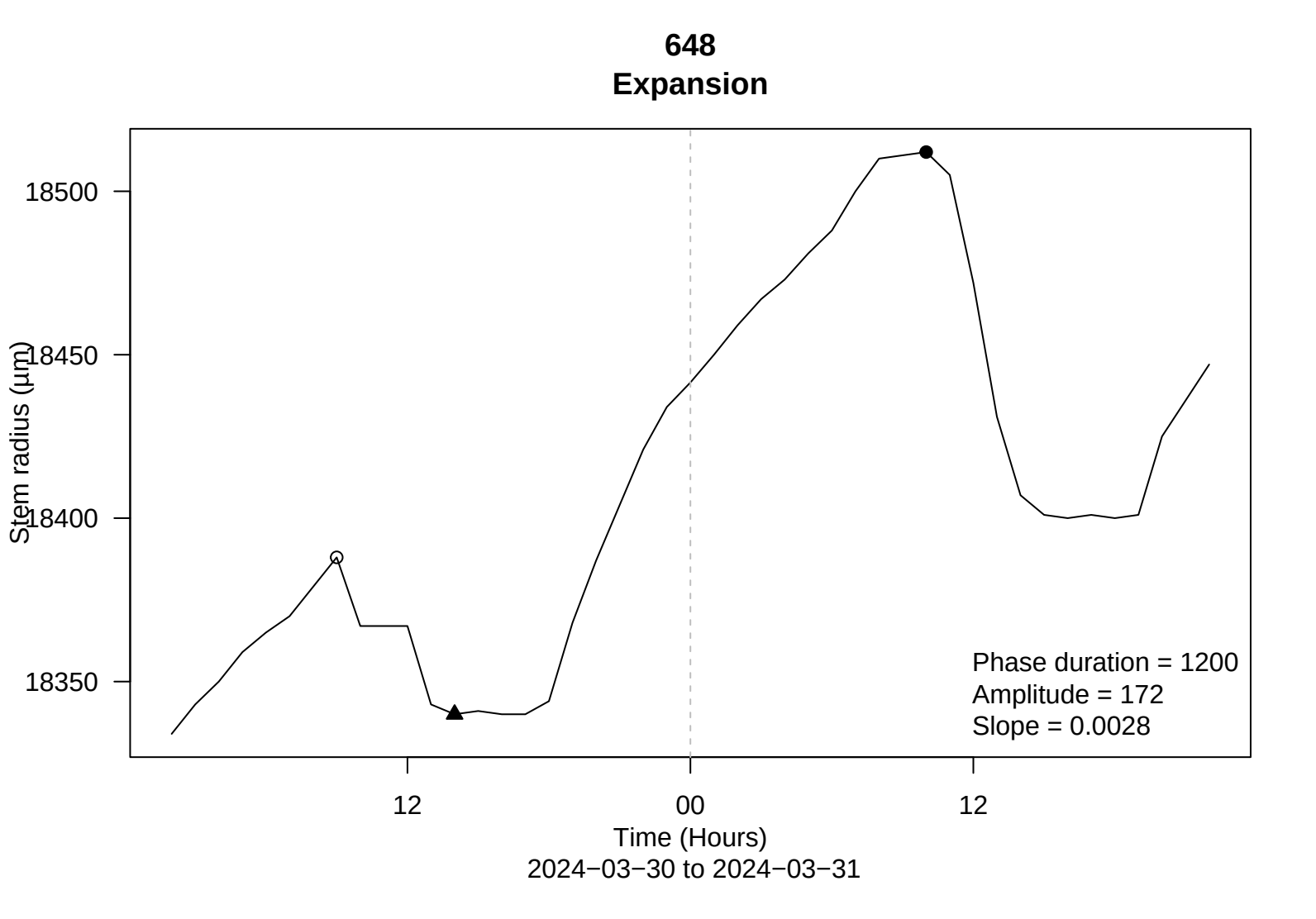

648
Shrinkage
18420
18400
18380
18360
Stem radius (µm)
Phase duration = 480
Amplitude = −90
Slope = −0.004
00
12
00
Time (Hours)
2024−03−24 to 2024−03−24


648
Expansion
18460
18440
18420
18400
18380
18360
Stem radius (µm)
Phase duration = 2580
Amplitude = 120
Slope = 6e−04
00
00
00
Time (Hours)
2024−03−24 to 2024−03−26


648
Shrinkage
18460
18450
18440
18430
Stem radius (µm)
Phase duration = 420
Amplitude = −41
Slope = −0.0015
00
12
00
Time (Hours)
2024−03−26 to 2024−03−26


648
Expansion
18500
18480
18460
18440
Stem radius (µm)
Phase duration = 2580
Amplitude = 91
Slope = 6e−04
00
00
00
Time (Hours)
2024−03−26 to 2024−03−28


648
Shrinkage
18450
18400
18350
18300
Stem radius (µm)
Phase duration = 300
Amplitude = −48
Slope = −0.0025
00
06
12
18
00
Time (Hours)
2024−03−30 to 2024−03−30


648
Expansion
18500
18450
18400
18350
Stem radius (µm)
Phase duration = 1200
Amplitude = 172
Slope = 0.0028
12
00
12
Time (Hours)
2024−03−30 to 2024−03−31