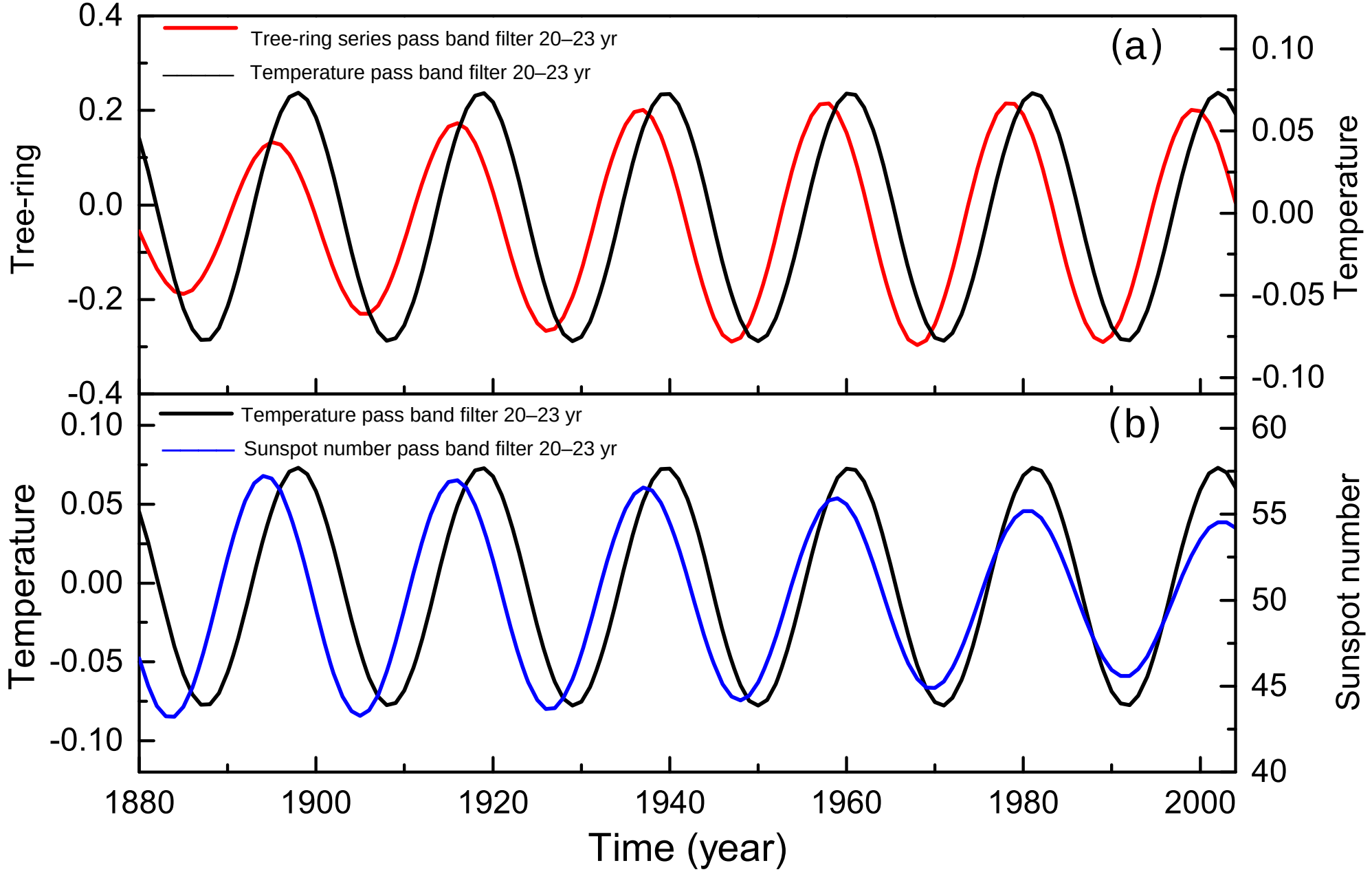
Tree-ring series pass band filter 20–23 yr
Temperature pass band filter 20–23 yr
(a)
Tree-ring
Temperature
0.4
0.2
0.0
-0.2
-0.4
0.10
0.05
0.00
-0.05
-0.10
Temperature pass band filter 20–23 yr
Sunspot number pass band filter 20–23 yr
(b)
Temperature
Sunspot number
0.10
0.05
0.00
-0.05
-0.10
60
55
50
45
40
1880
1900
1920
1940
1960
1980
2000
Time (year)