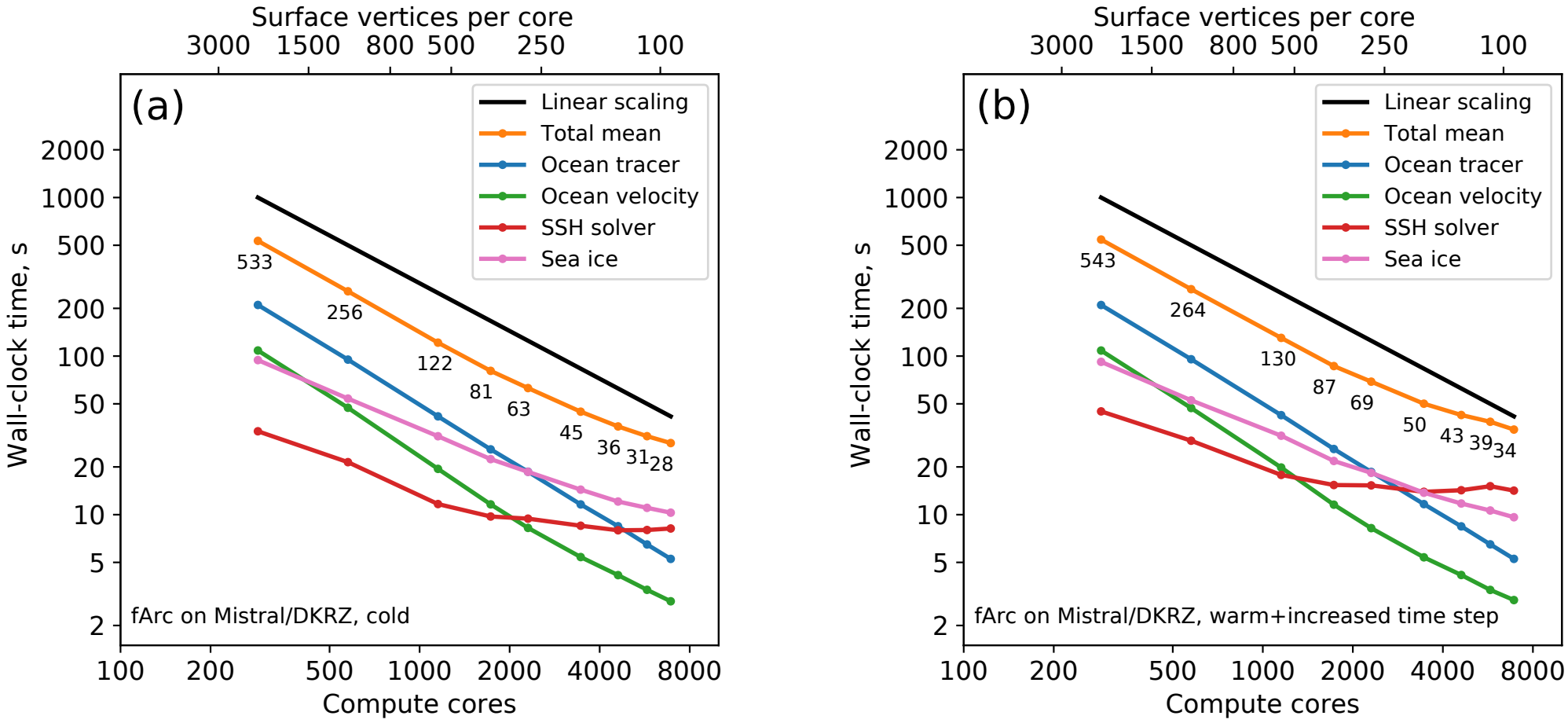
Surface vertices per core
3000 1500 800 500 250 100
(a)
Linear scaling
Total mean
Ocean tracer
Ocean velocity
SSH solver
Sea ice
533
256
122
81
63
45
36
31
28
fArc on Mistral/DKRZ, cold
Wall-clock time, s
2000
1000
500
200
100
50
20
10
5
2
100 200 500 1000 2000 4000 8000
Compute cores
Surface vertices per core
3000 1500 800 500 250 100
(b)
Linear scaling
Total mean
Ocean tracer
Ocean velocity
SSH solver
Sea ice
543
264
130
87
69
50
43
39
34
fArc on Mistral/DKRZ, warm+increased time step
Wall-clock time, s
2000
1000
500
200
100
50
20
10
5
2
100 200 500 1000 2000 4000 8000
Compute cores