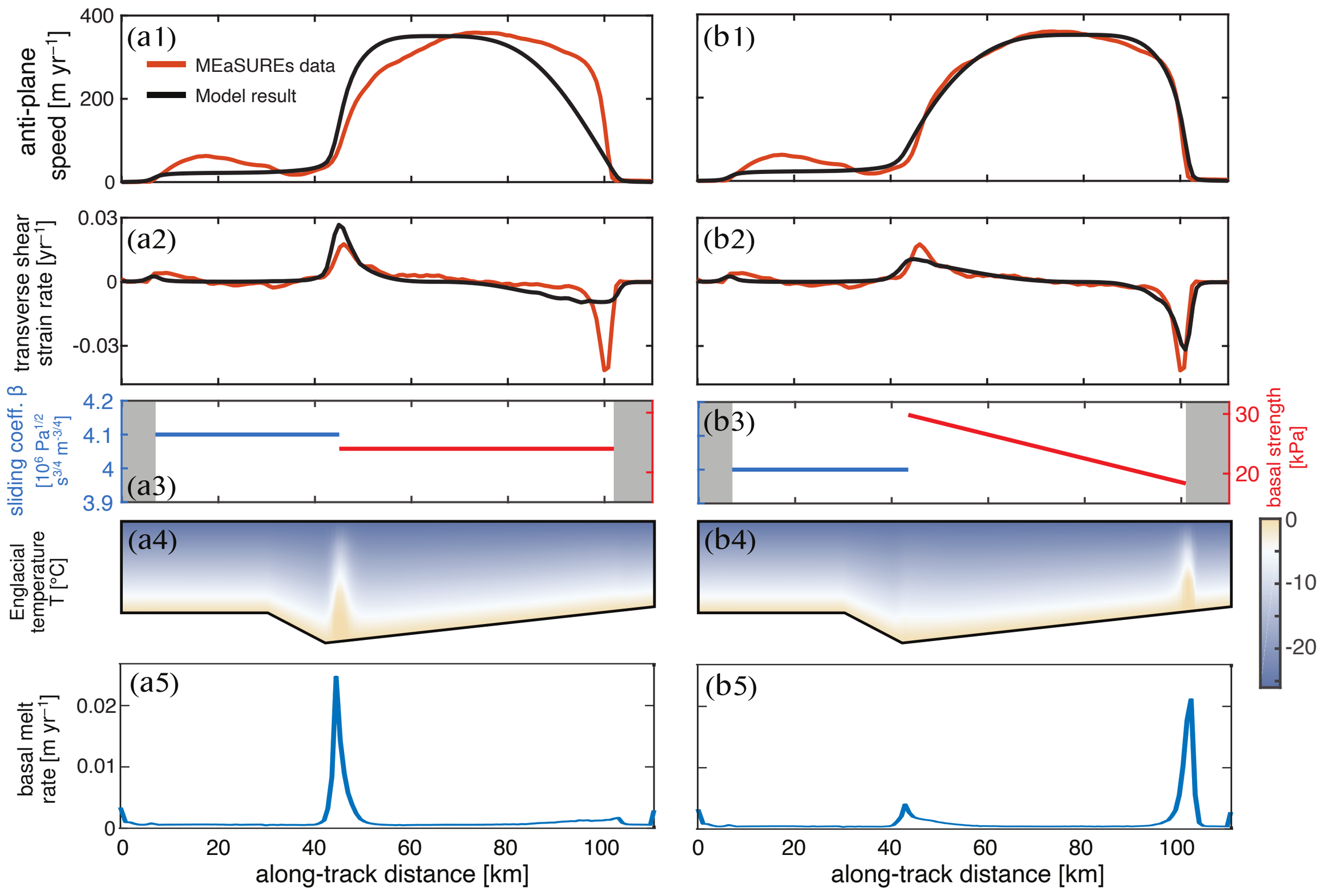

(a1)
(b1)
MEaSUREs data
Model result
anti-plane speed [m yr^{-1}]
400
200
0
(a2)
(b2)
transverse shear strain rate [yr^{-1}]
0.03
0
-0.03
(a3)
(b3)
sliding coeff. β [10^6 Pa$^{1/2}$ s$^{3/4}$ m$^{-3/4}$]
4.2
4.1
4
3.9
basal strength [kPa]
30
20
(a4)
(b4)
Englacial temperature T [°C]
0
-10
-20
(a5)
(b5)
basal melt rate [m yr^{-1}]
0.02
0.01
0
0
20
40
60
80
100
along-track distance [km]