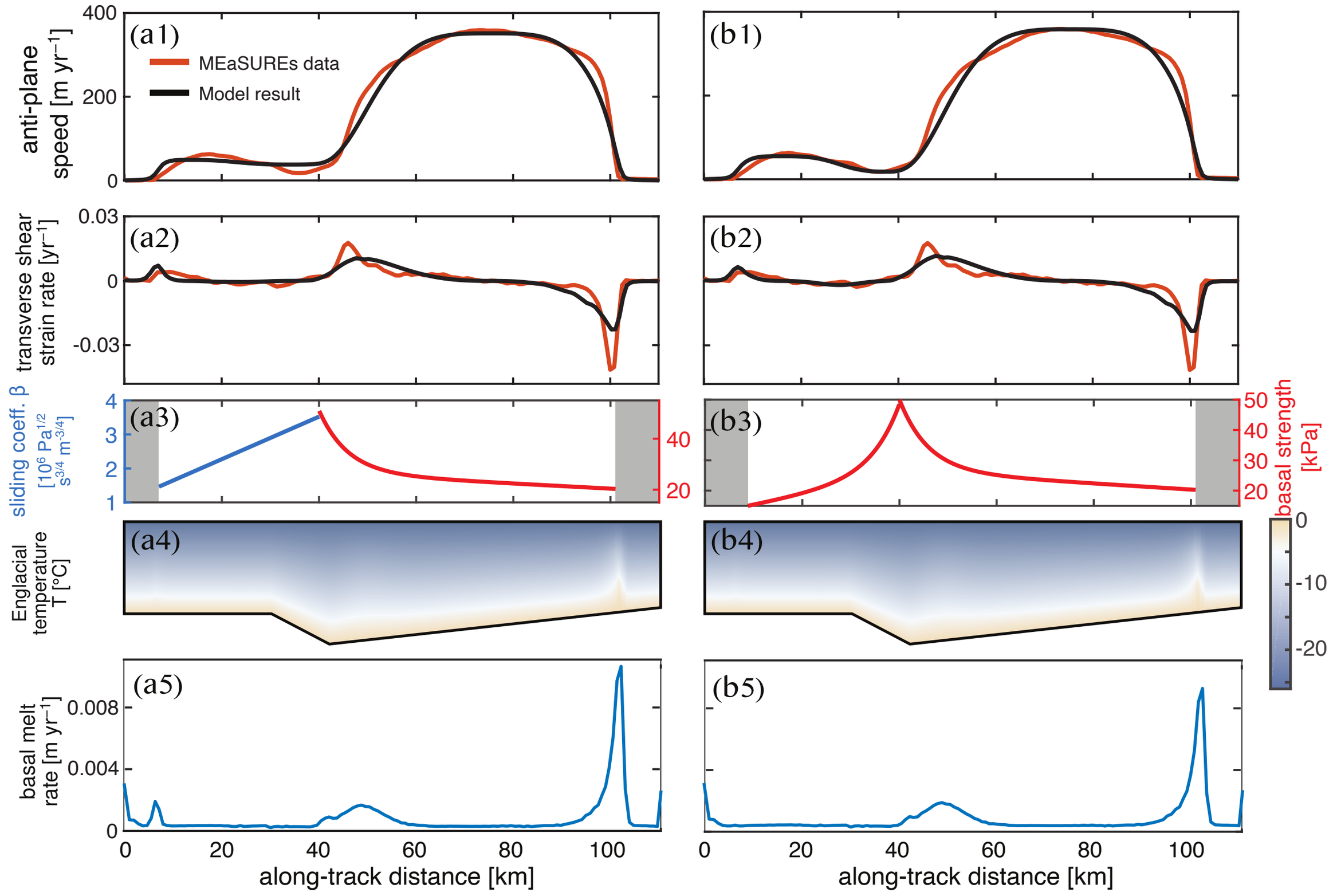

(a1)
(b1)
MEaSUREs data
Model result
anti-plane speed [m yr⁻¹]
400
200
0
(a2)
(b2)
transverse shear strain rate [yr⁻¹]
0.03
0
-0.03
(a3)
(b3)
sliding coeff. β [10⁶ Pa^1/2 s^3/4 m^-3/4]
4
3
2
1
basal strength [kPa]
50
40
30
20
(a4)
(b4)
Englacial temperature T [°C]
0
-10
-20
(a5)
(b5)
basal melt rate [m yr⁻¹]
0.008
0.004
0
0
20
40
60
80
100
along-track distance [km]