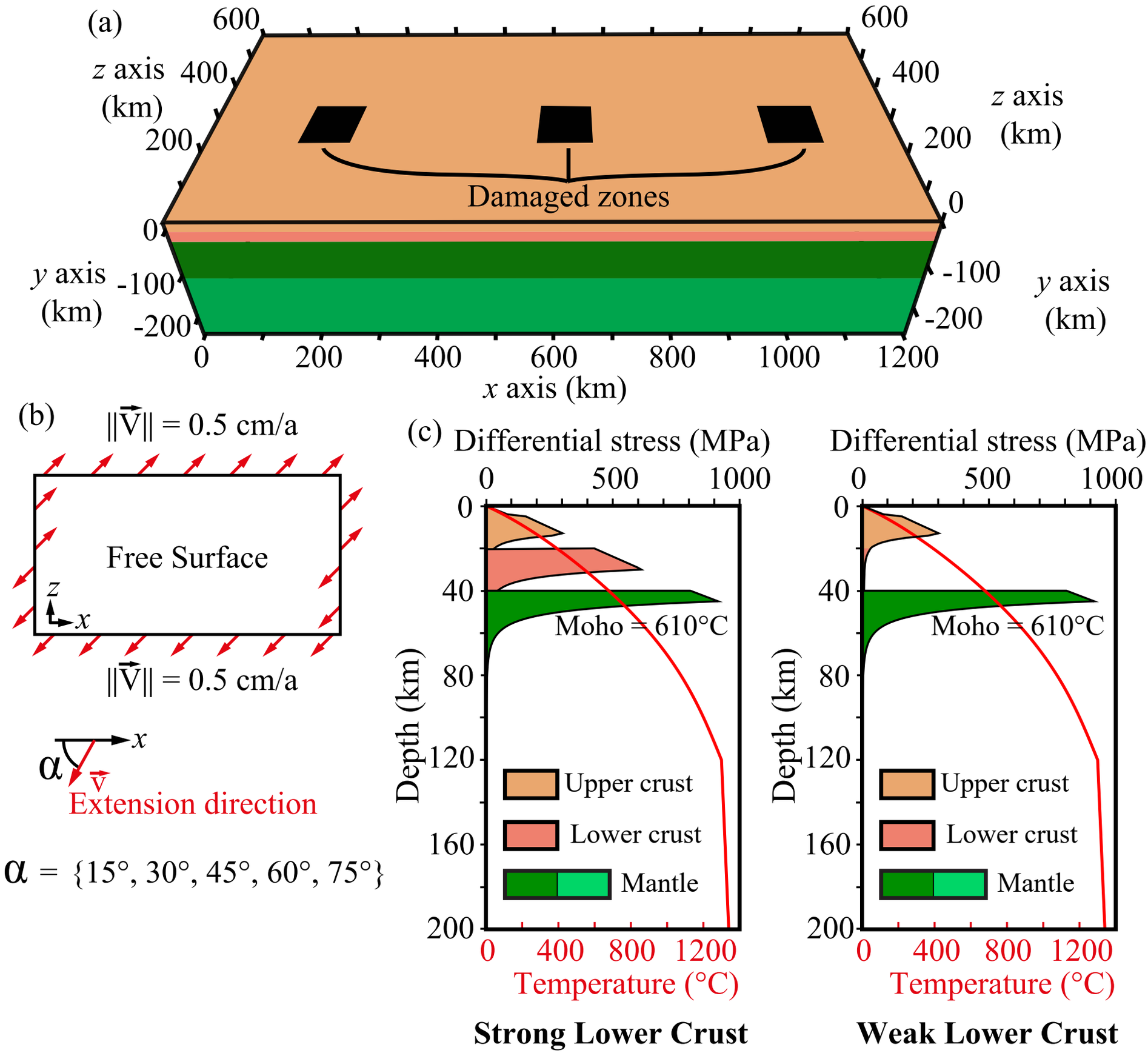
(a)
z axis (km)
600
400
200
0
-100
-200
y axis (km)
Damaged zones
0
200
400
600
800
1000
1200
x axis (km)
(b)
||V|| = 0.5 cm/a
Free Surface
z
x
||V|| = 0.5 cm/a
α
x
V
Extension direction
α = {15°, 30°, 45°, 60°, 75°}
(c)
Differential stress (MPa)
0
500
1000
Depth (km)
40
80
120
160
200
Moho = 610°C
Upper crust
Lower crust
Mantle
0
400
800
1200
Temperature (°C)
Strong Lower Crust
Weak Lower Crust