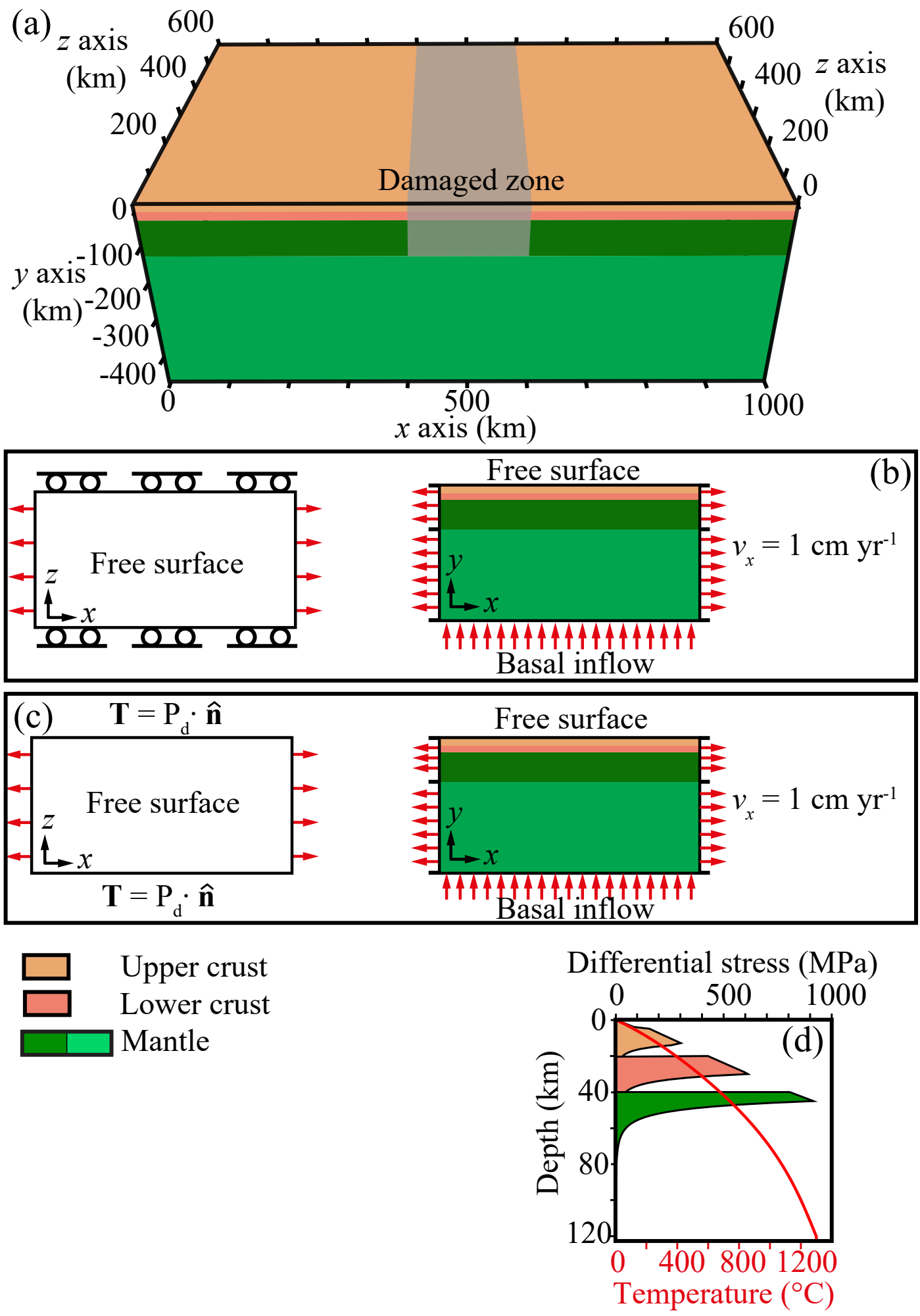
(a)
z axis (km)
600
400
200
0
-100
-200
-300
-400
y axis (km)
Damaged zone
0
500
1000
x axis (km)
(b)
Free surface
z
x
Free surface
y
x
v_x = 1 cm yr^{-1}
Basal inflow
(c)
$\mathbf{T} = P_d \cdot \hat{\mathbf{n}}$
Free surface
z
x
$\mathbf{T} = P_d \cdot \hat{\mathbf{n}}$
Free surface
y
x
v_x = 1 cm yr^{-1}
Basal inflow
Upper crust
Lower crust
Mantle
Differential stress (MPa)
0
500
1000
(d)
Depth (km)
0
40
80
120
0
400
800
1200
Temperature (°C)