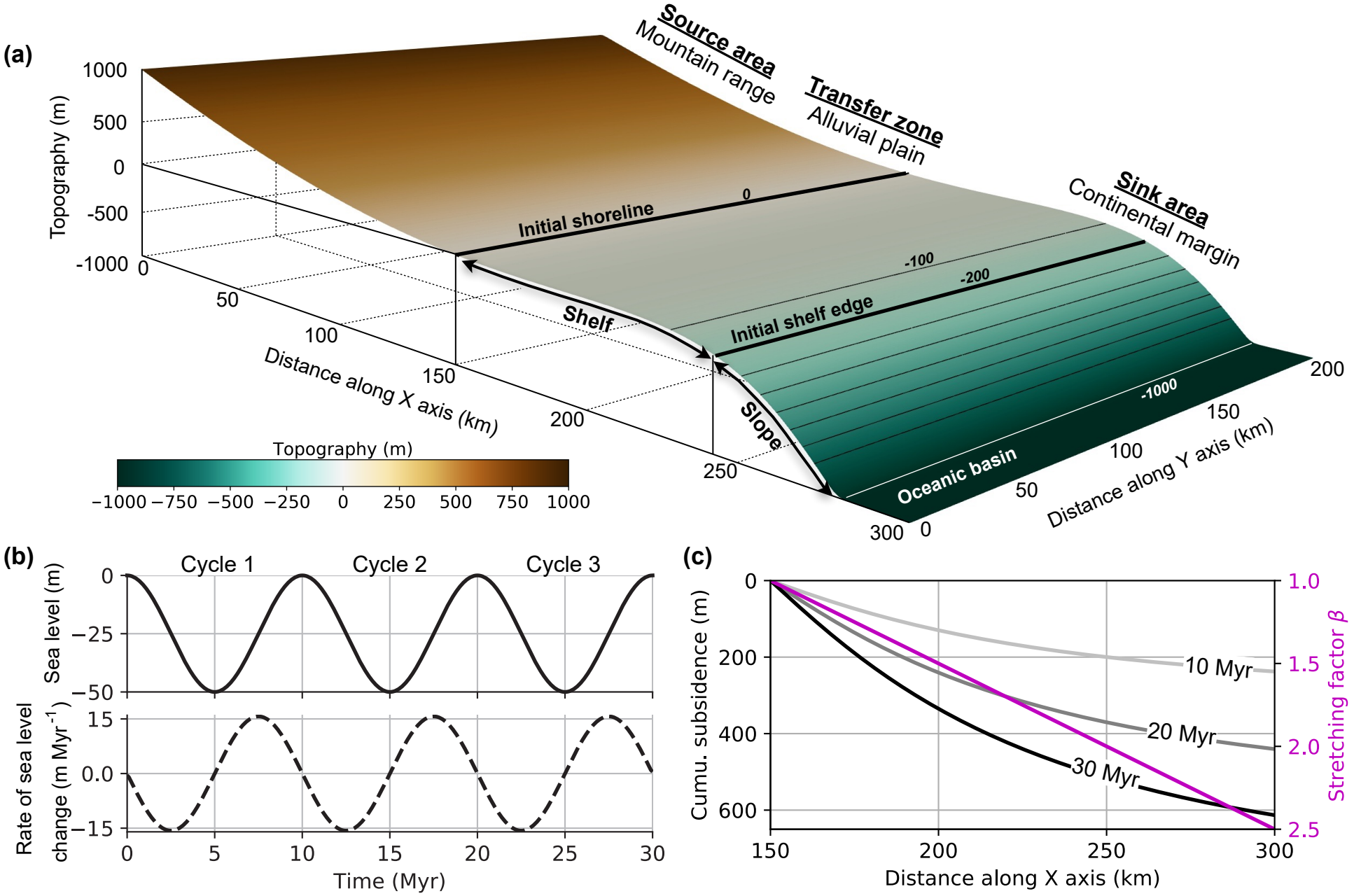
(a)
Source area
Mountain range
Transfer zone
Alluvial plain
Sink area
Continental margin
Initial shoreline
0
-100
-200
-1000
Initial shelf edge
Shelf
Slope
Oceanic basin
Topography (m)
1000
500
0
-500
-1000
0
50
100
150
200
250
300
Distance along X axis (km)
Distance along Y axis (km)
Topography (m)
−1000 −750 −500 −250 0 250 500 750 1000
(b)
Cycle 1
Cycle 2
Cycle 3
Sea level (m)
0
−25
−50
Rate of sea level change (m Myr^{-1})
15
0.0
−15
0
5
10
15
20
25
30
Time (Myr)
(c)
Cumu. subsidence (m)
0
200
400
600
10 Myr
20 Myr
30 Myr
Stretching factor β
1.0
1.5
2.0
2.5
150
200
250
300
Distance along X axis (km)