Area A
\[ h_A = 52 \text{ m} \]

Area B
\[ h_B = 1000 \text{ m} \]

Given southward Kelvin wave

Radiative condition

Matching condition

Observed tides

200 km

60 km

80 km

120 km

Radiative condition

Observed tides

(a)

(b)

(c)

(d)