

Coastal Landforms

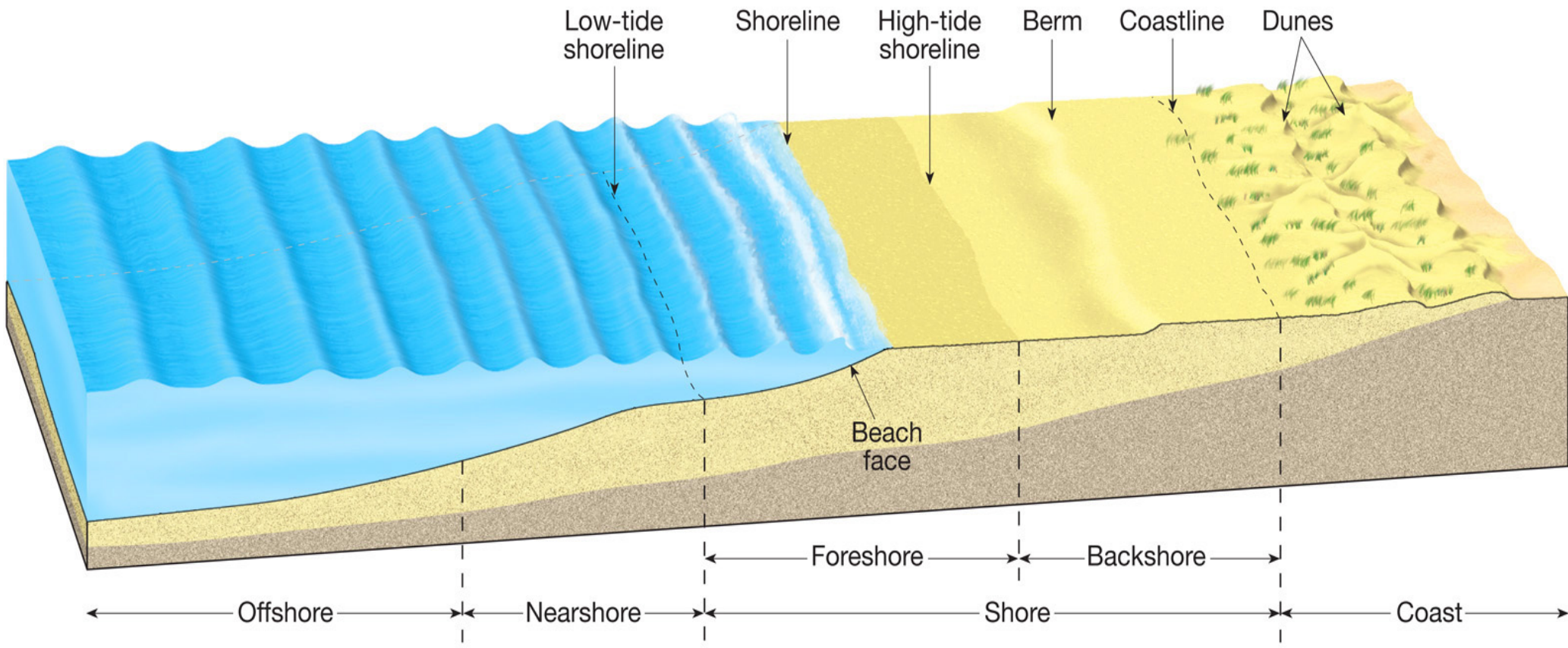
Tides



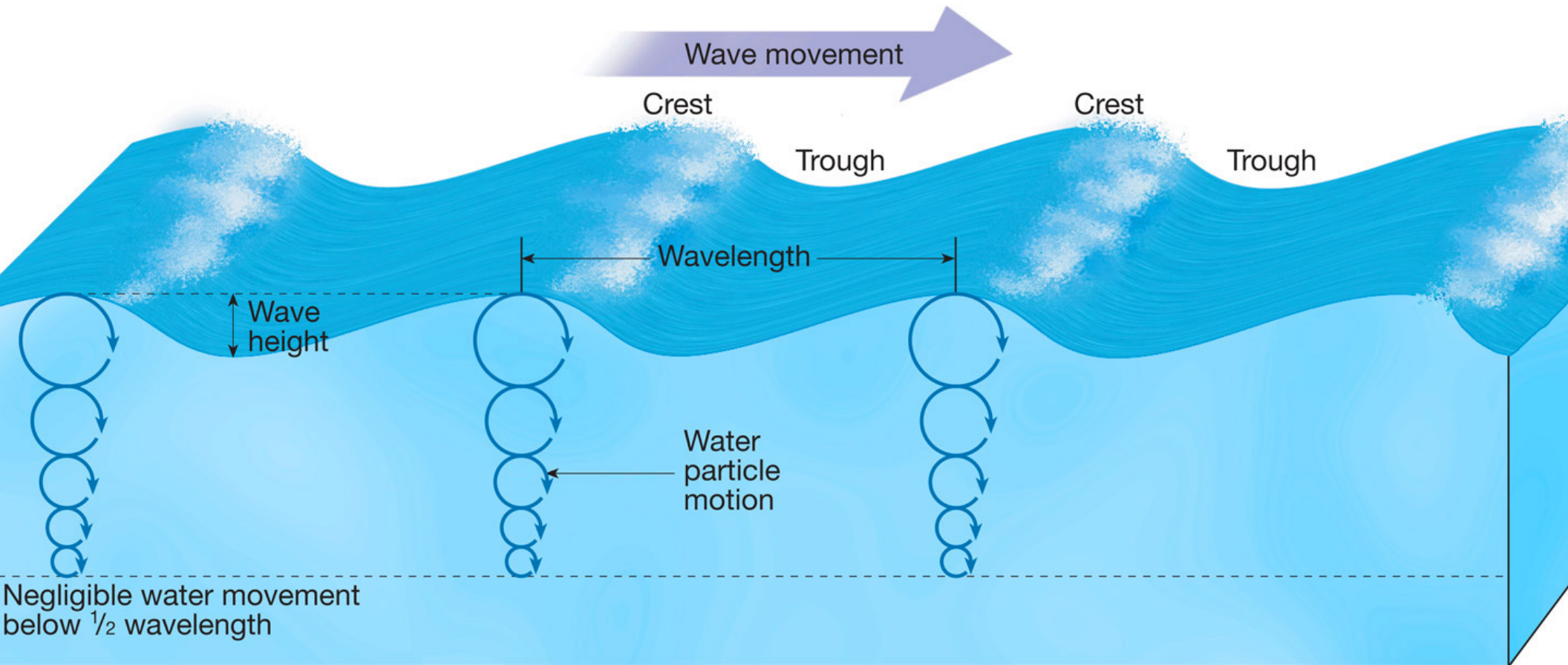
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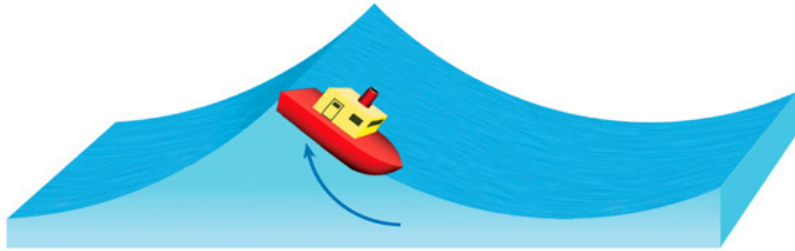
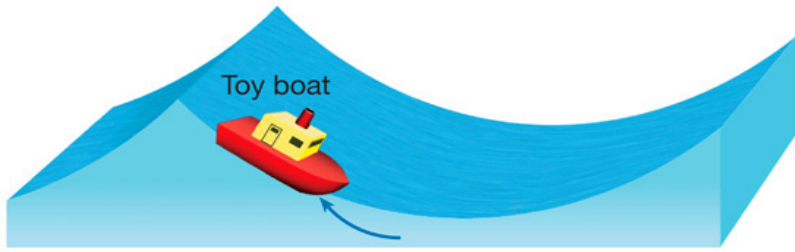
http://pinker.wjh.harvard.edu/photos/new_zealand/pages/Foxton%20Beach.htm



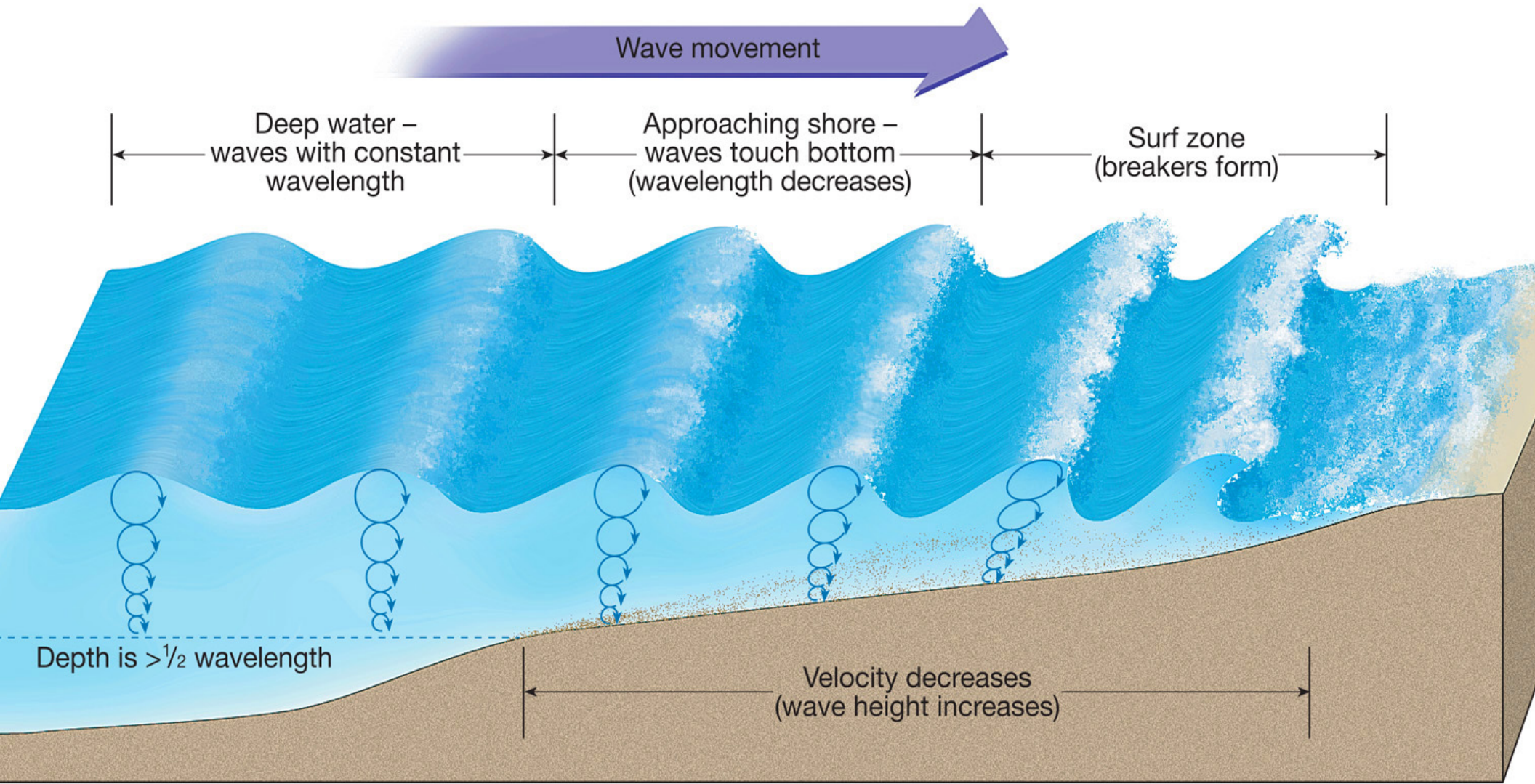
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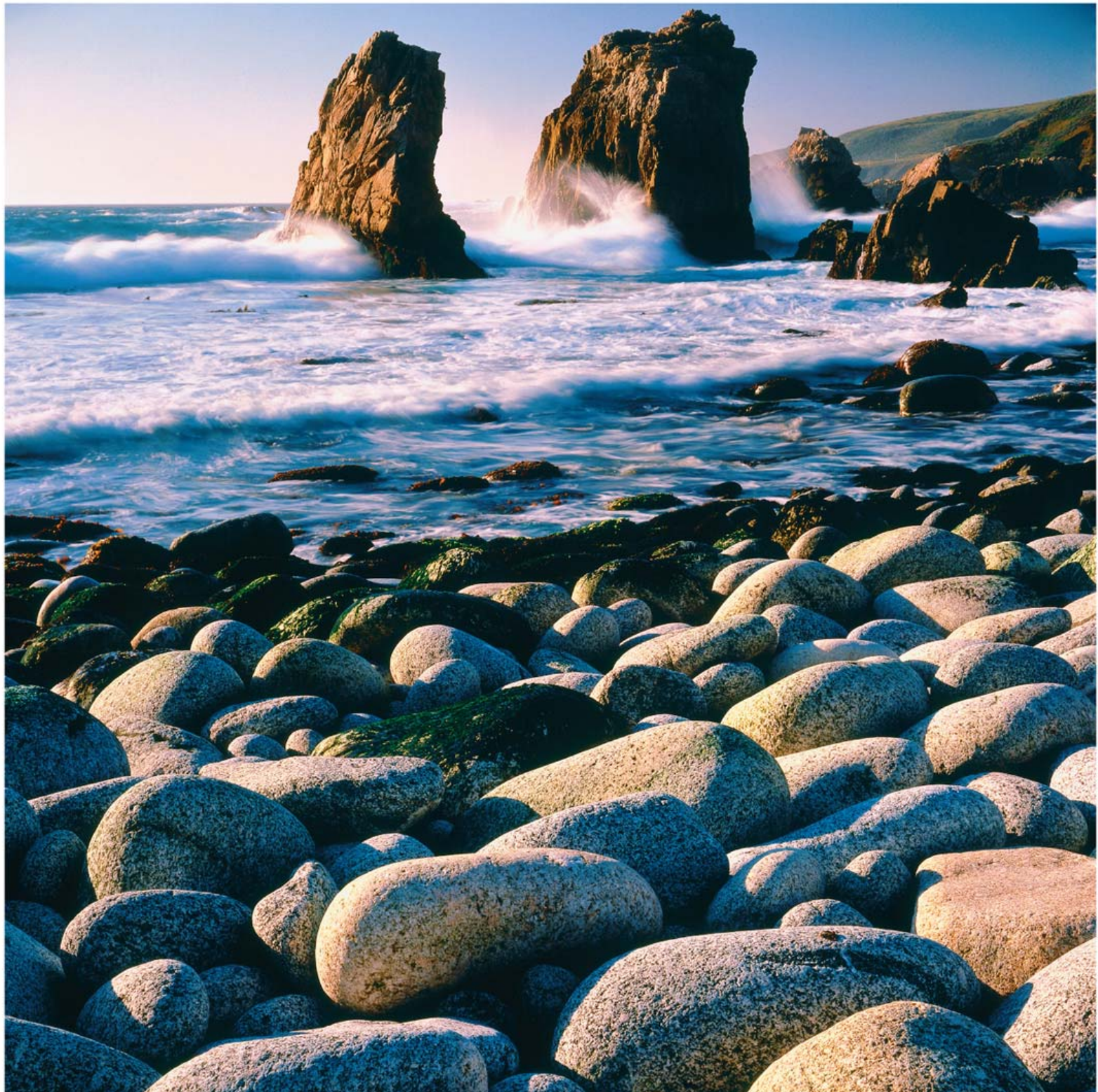
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Orbital movement of toy boat



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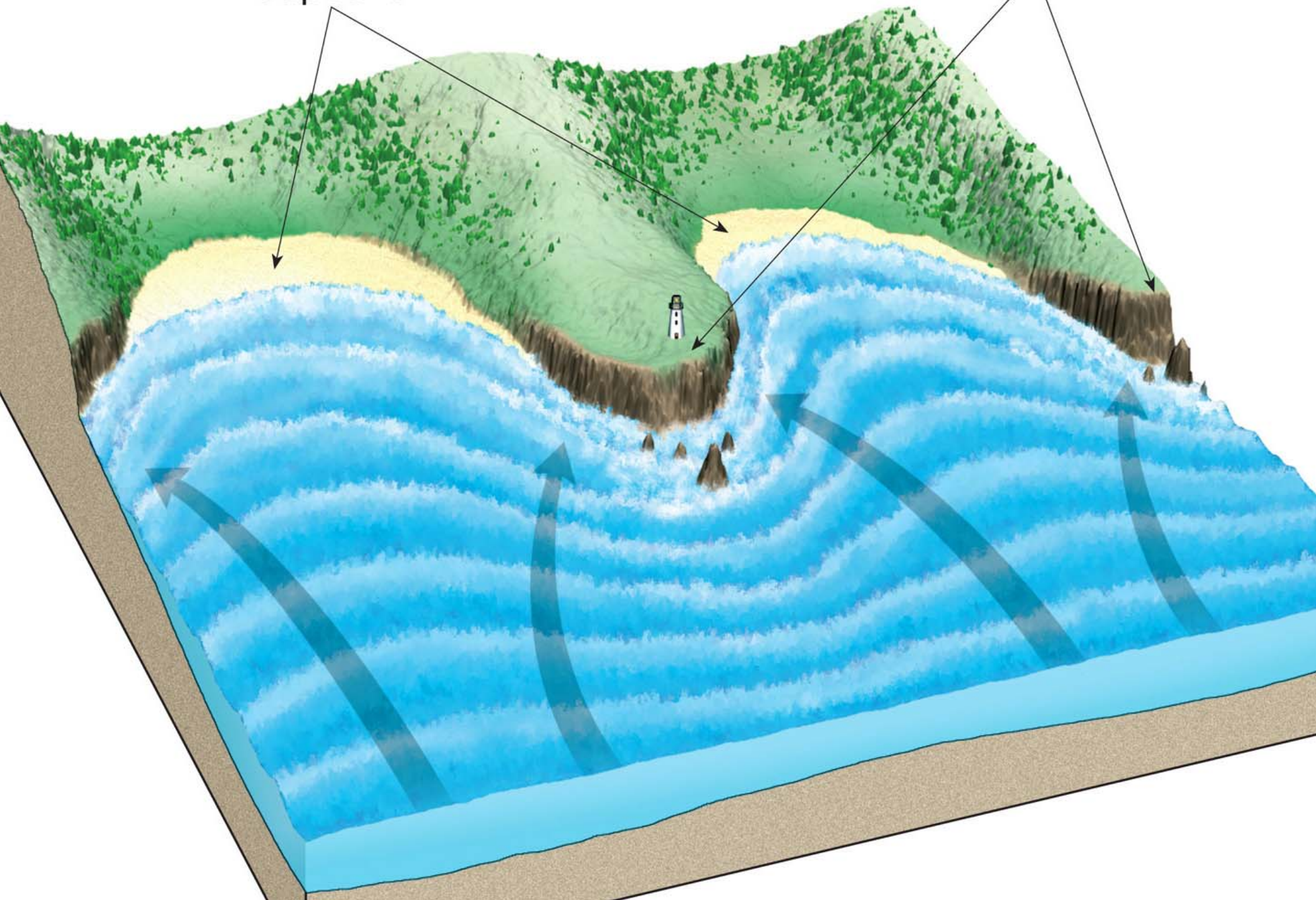


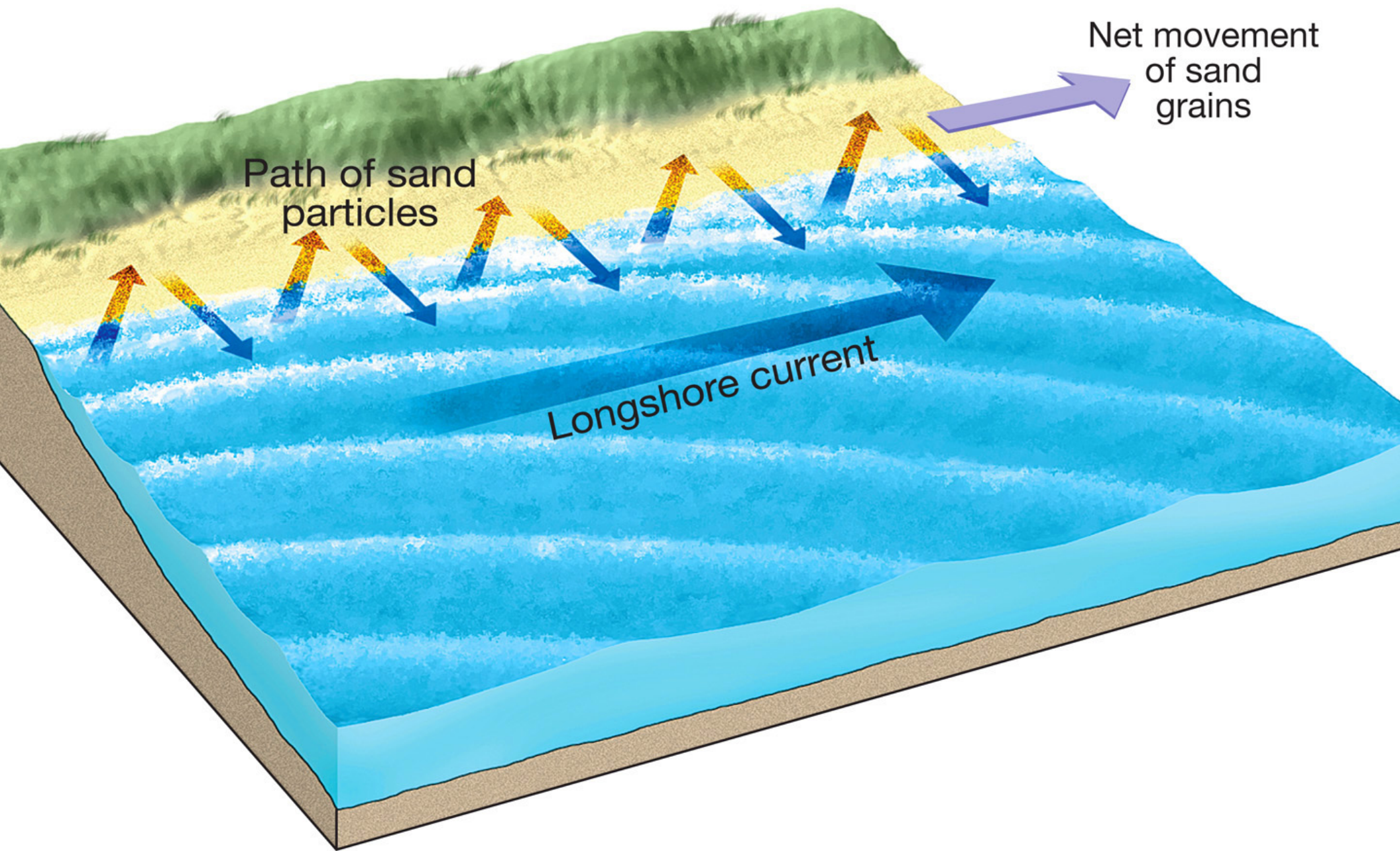


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Beach deposits

Headland





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Wave-cut
platform

Marine terrace

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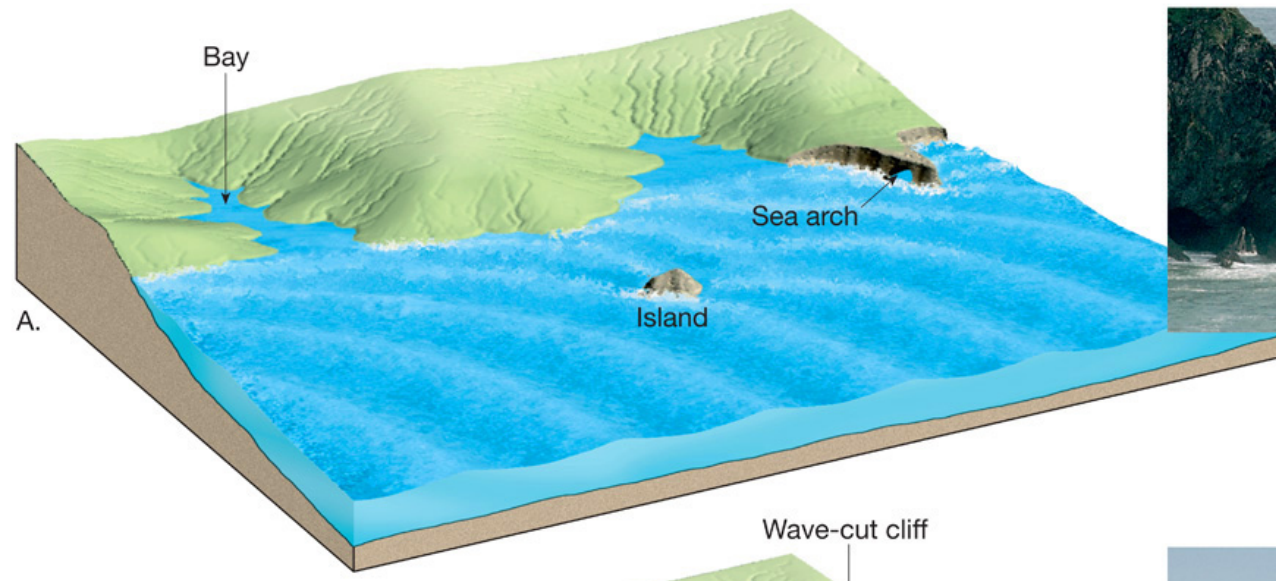
baymouth bar

tidal delta

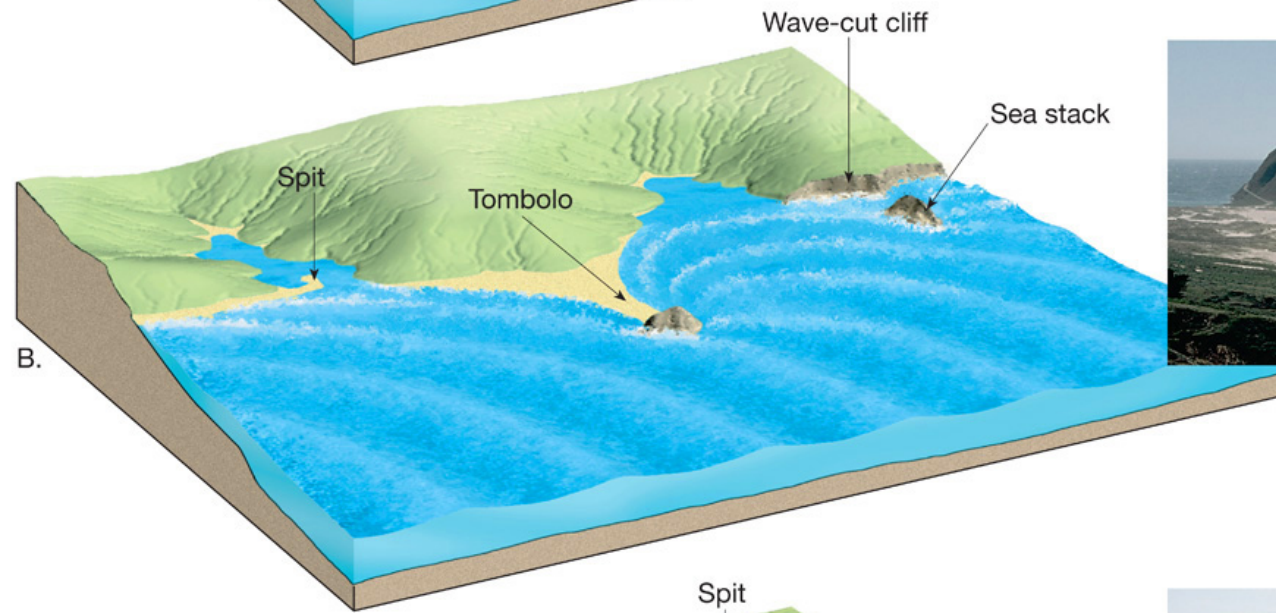
spit



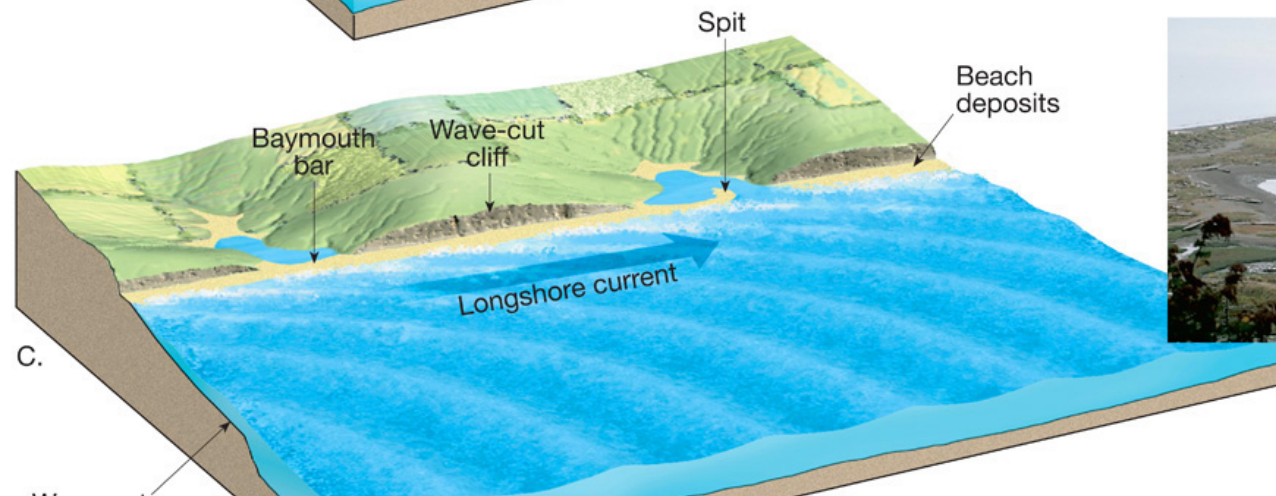




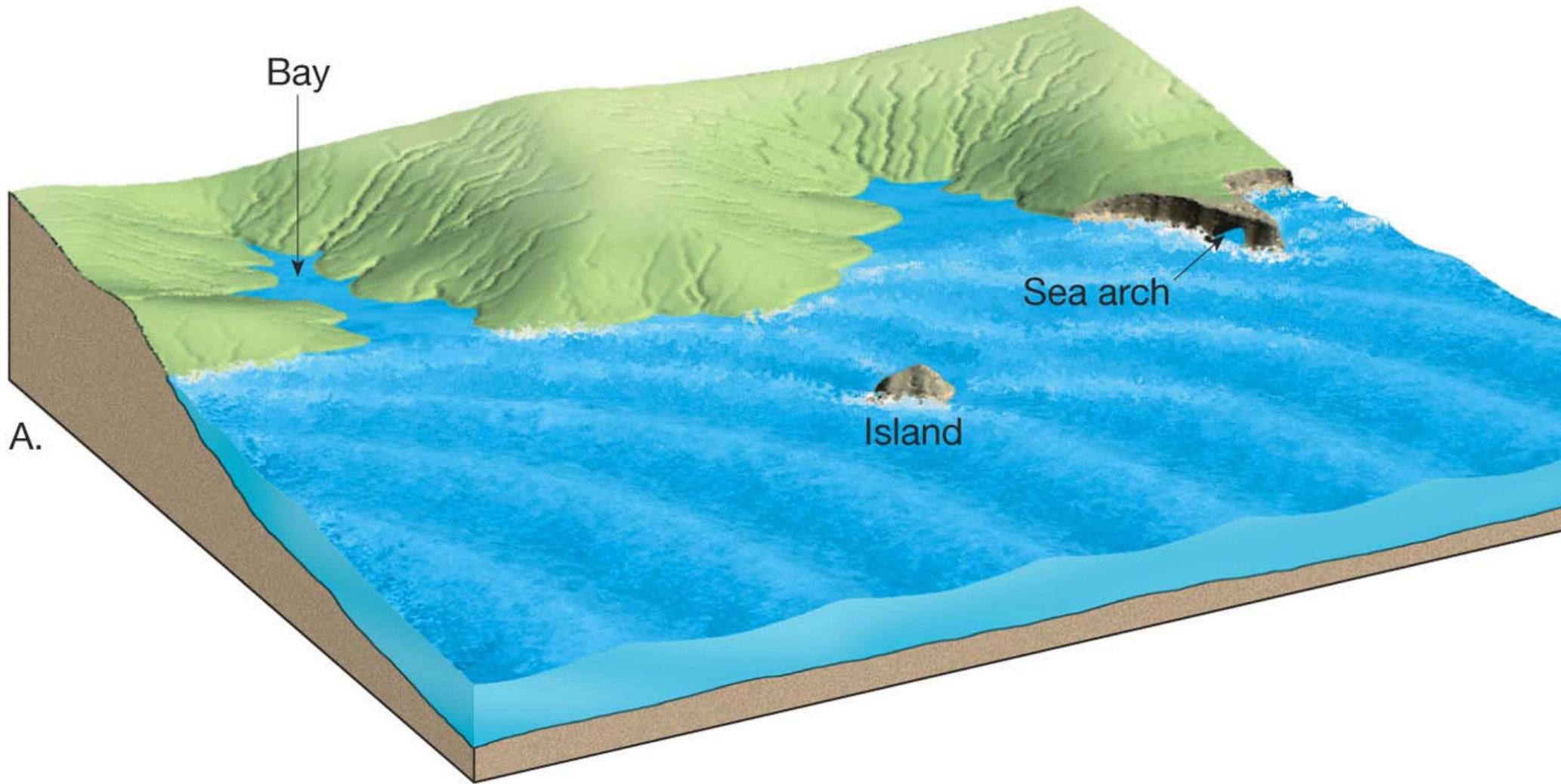
Sea arch



Tombolo



Spit

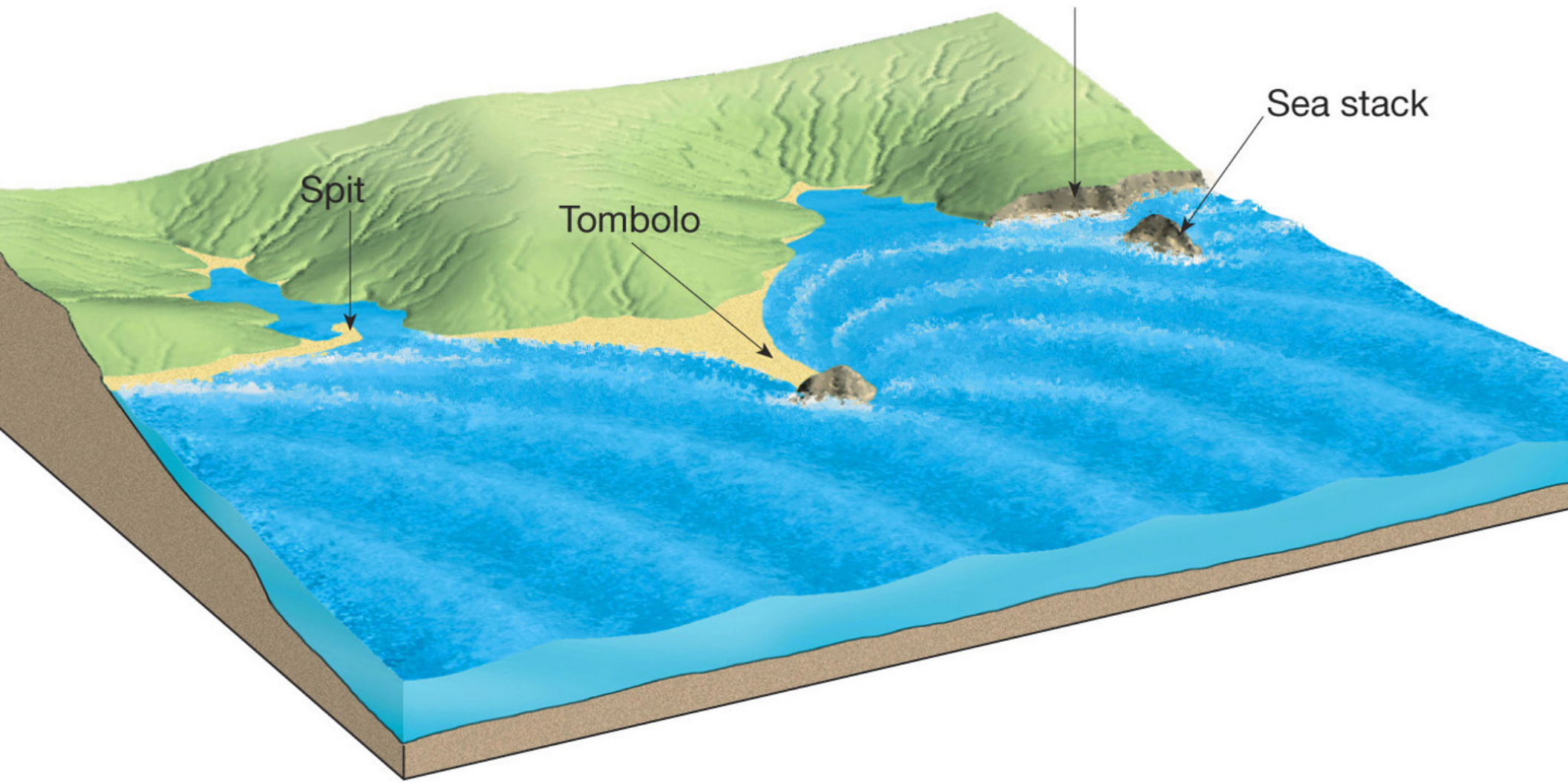


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Sea arch

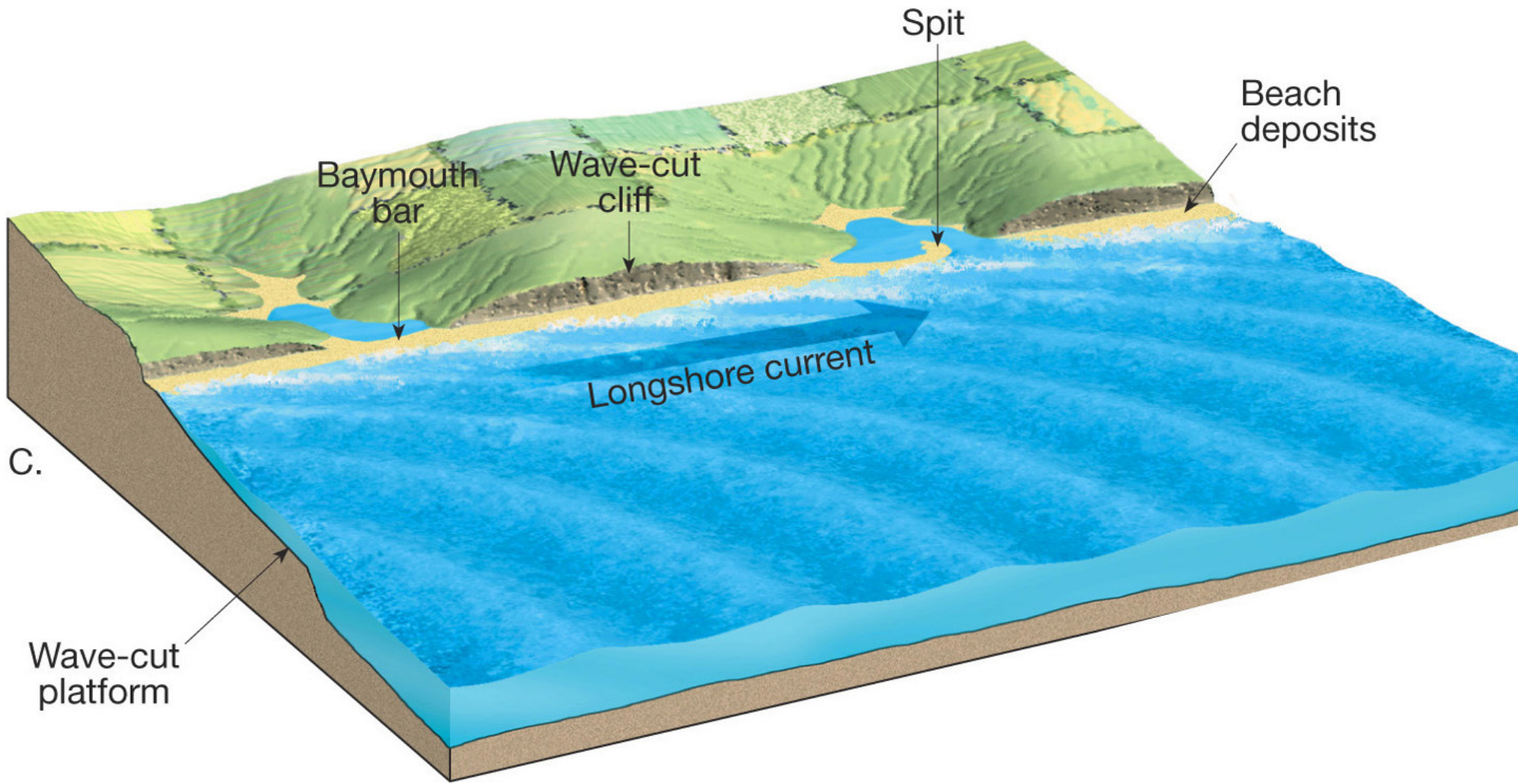
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Tombolo



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Spit





Breakwater





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B.

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Tides

Earth-Moon Relationship

Bay of Fundy

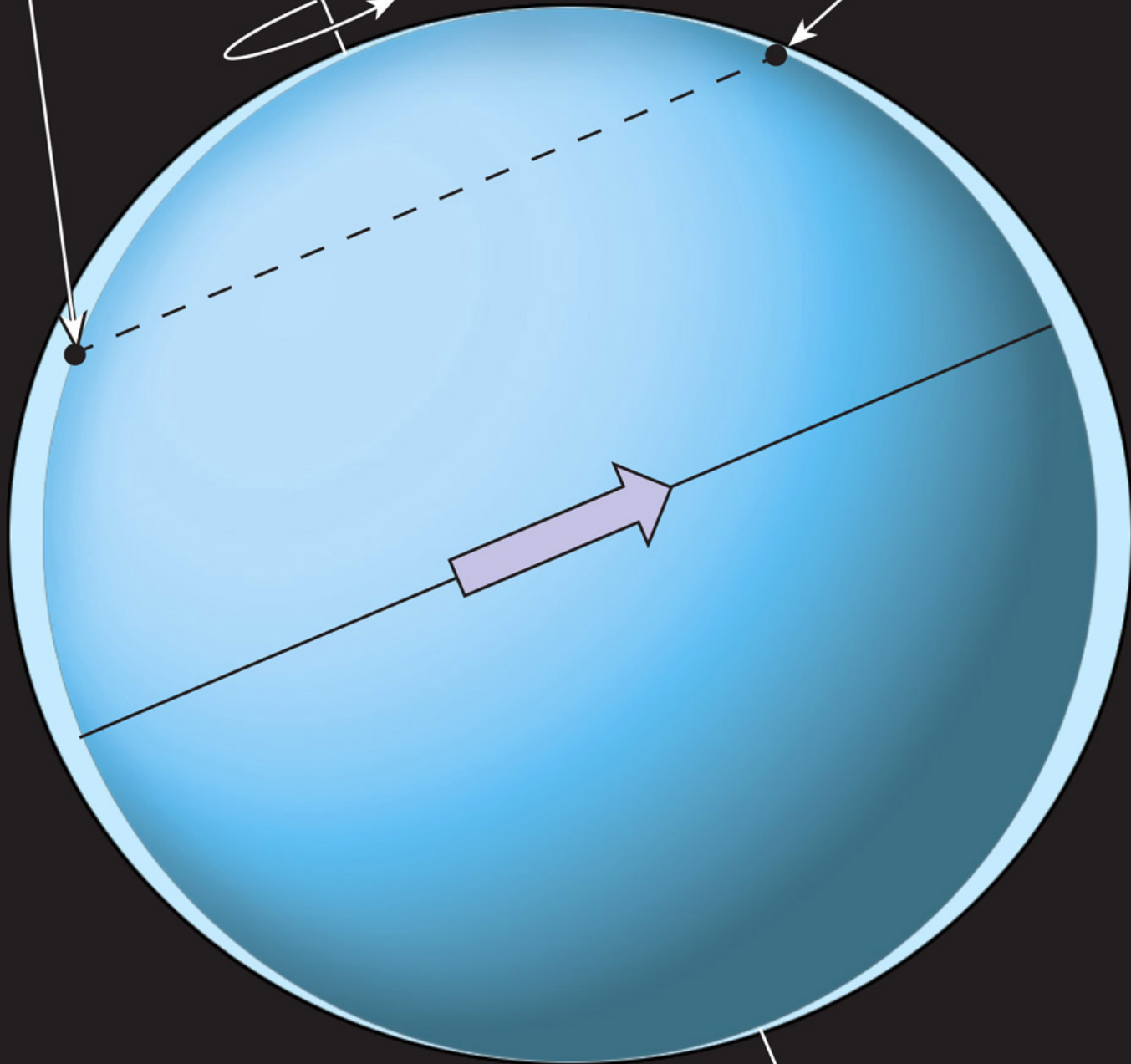






Higher high tide

Lower high tide

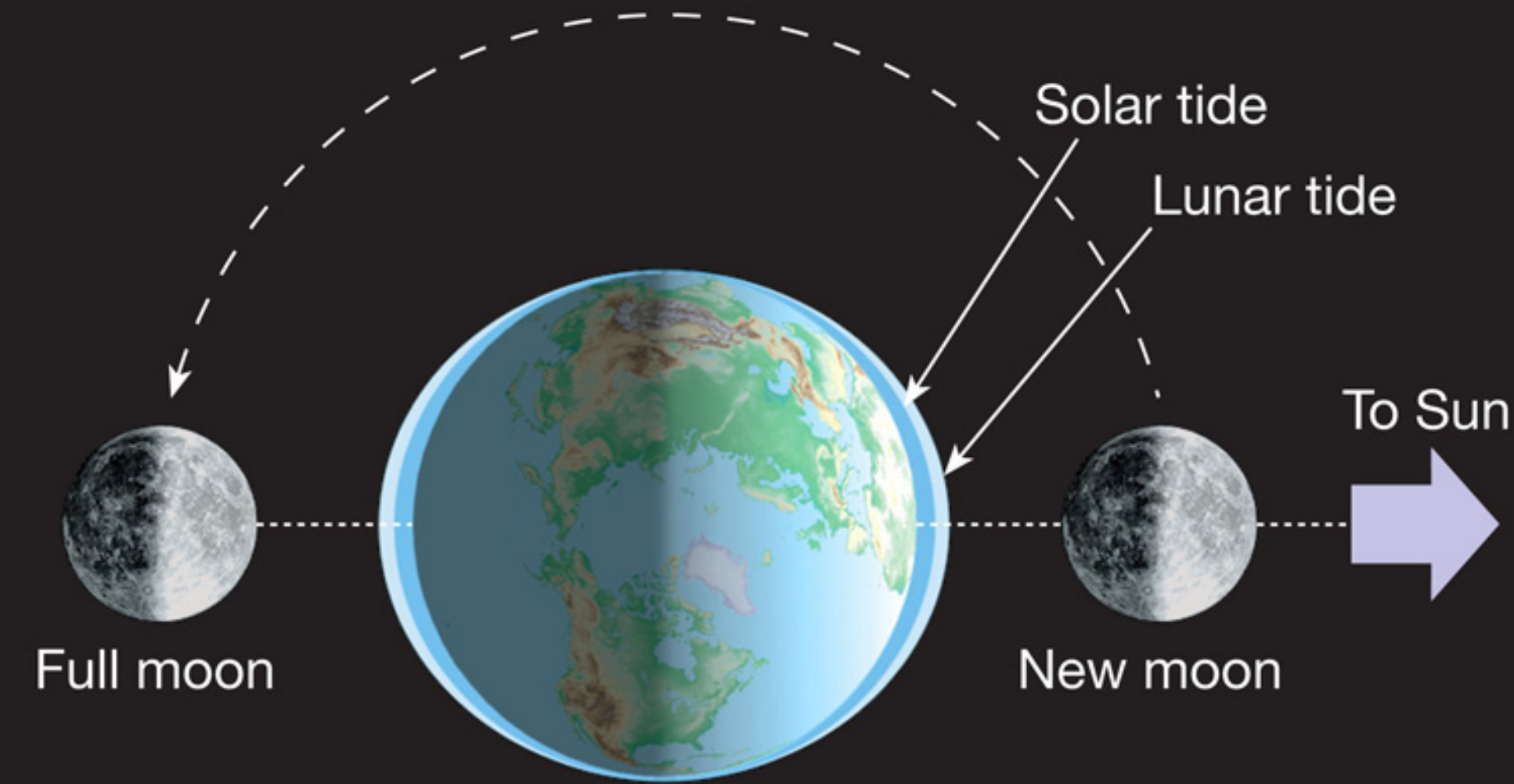


To Moon

S

Tide terms

- Flood tide: rising
- Ebb tide: falling



Full moon

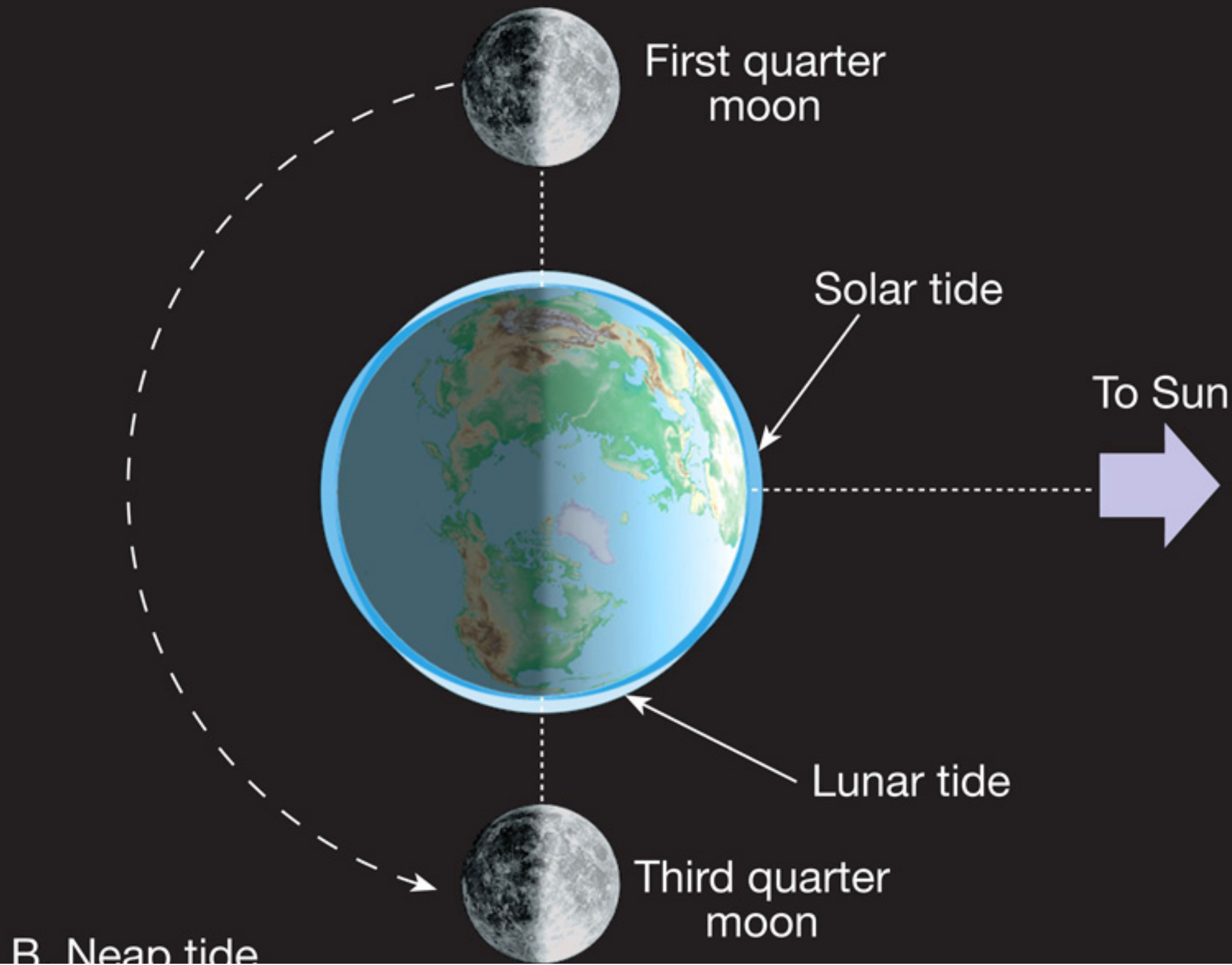
New moon

Solar tide

Lunar tide

To Sun

A. Spring tide



Tide terms

- Flood tide: rising
- Ebb tide: falling

- Spring tide: greater range
- Neap tide: less range

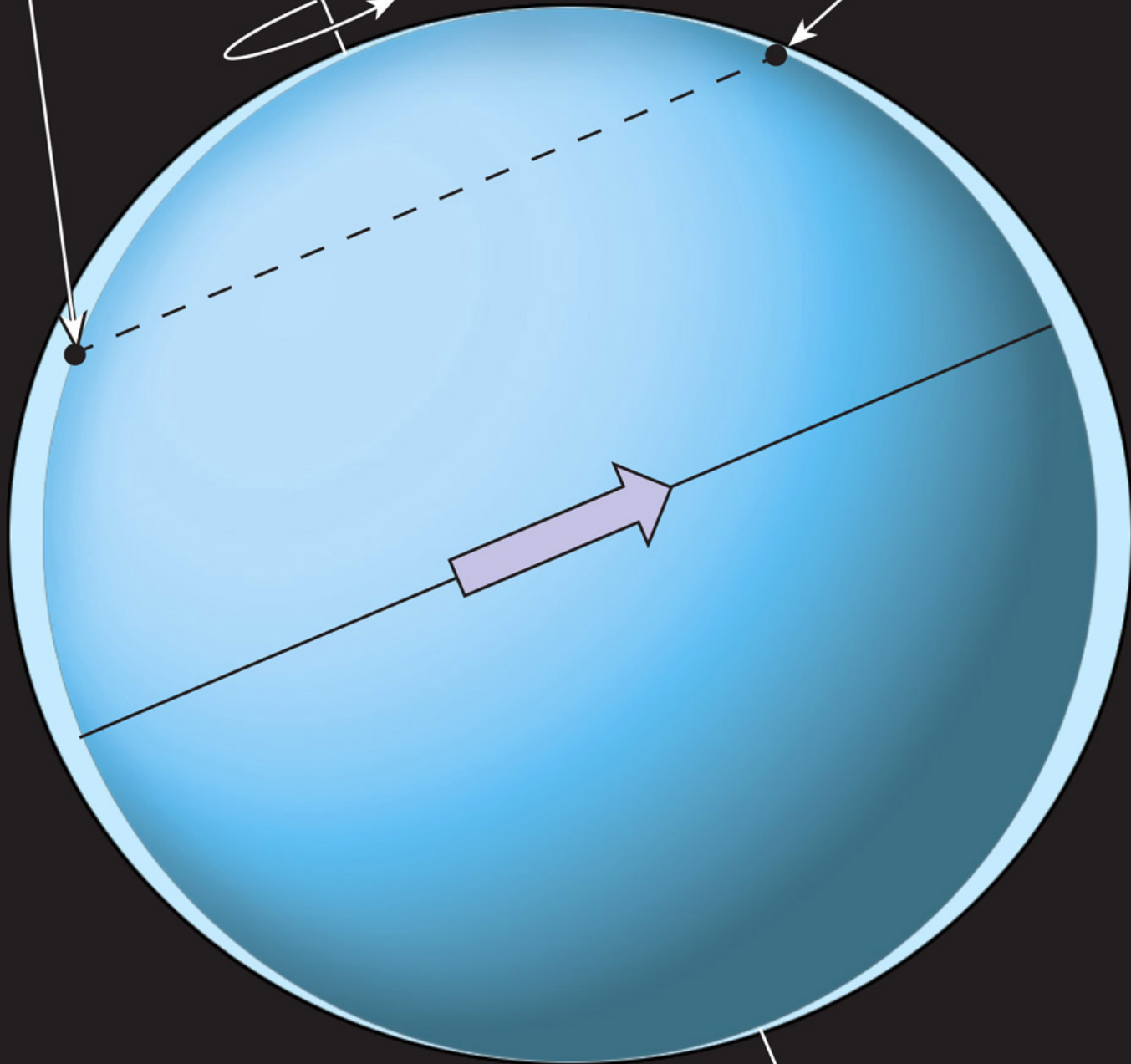
Tidal Patterns



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Higher high tide

Lower high tide



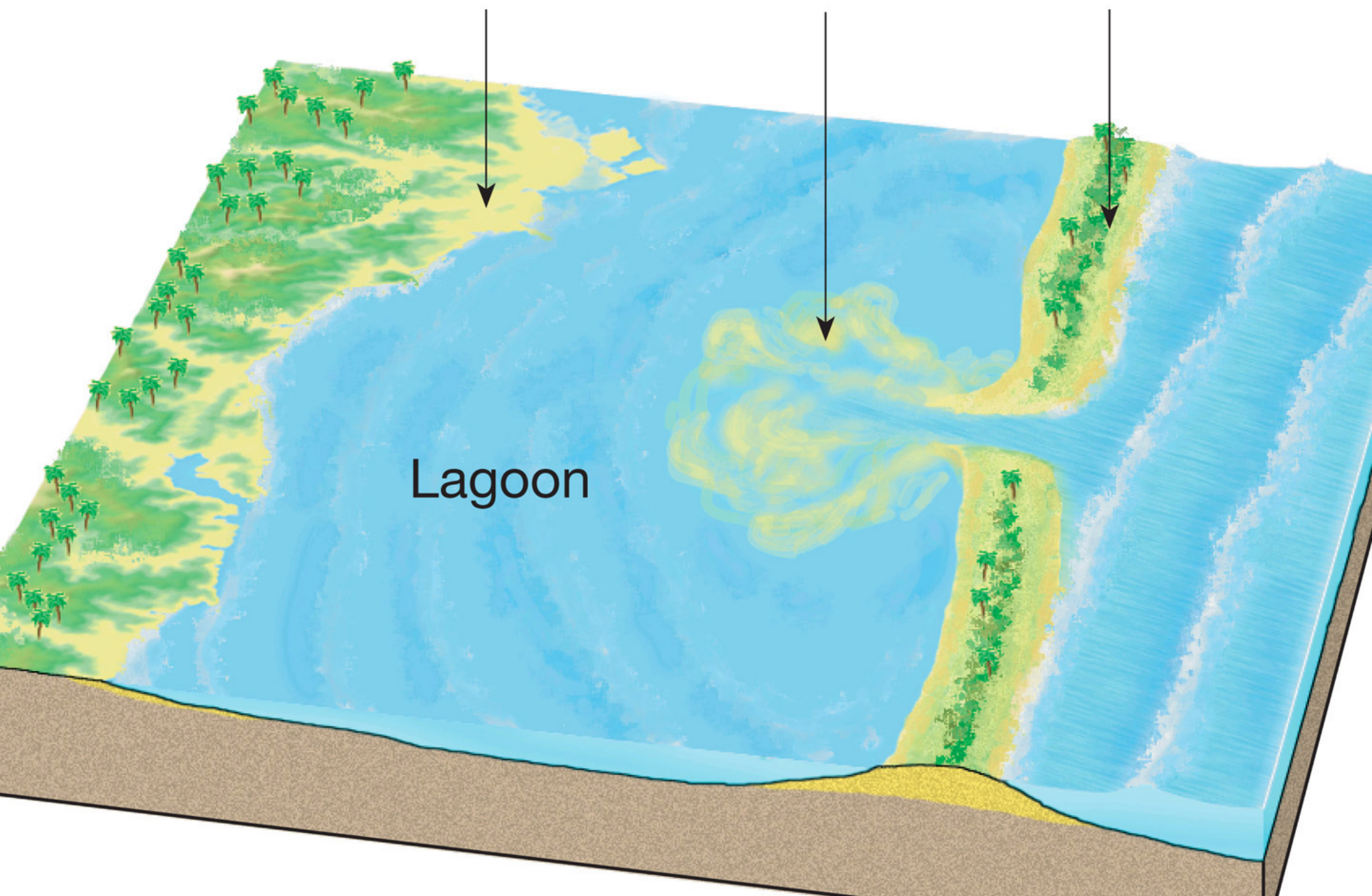
To Moon

S

Tidal flats

Tidal delta

Barrier island



Lagoon