

COASTAL LANDFORMS

सागरी लाटांमुळे निर्माण होणारी
भूरूपे

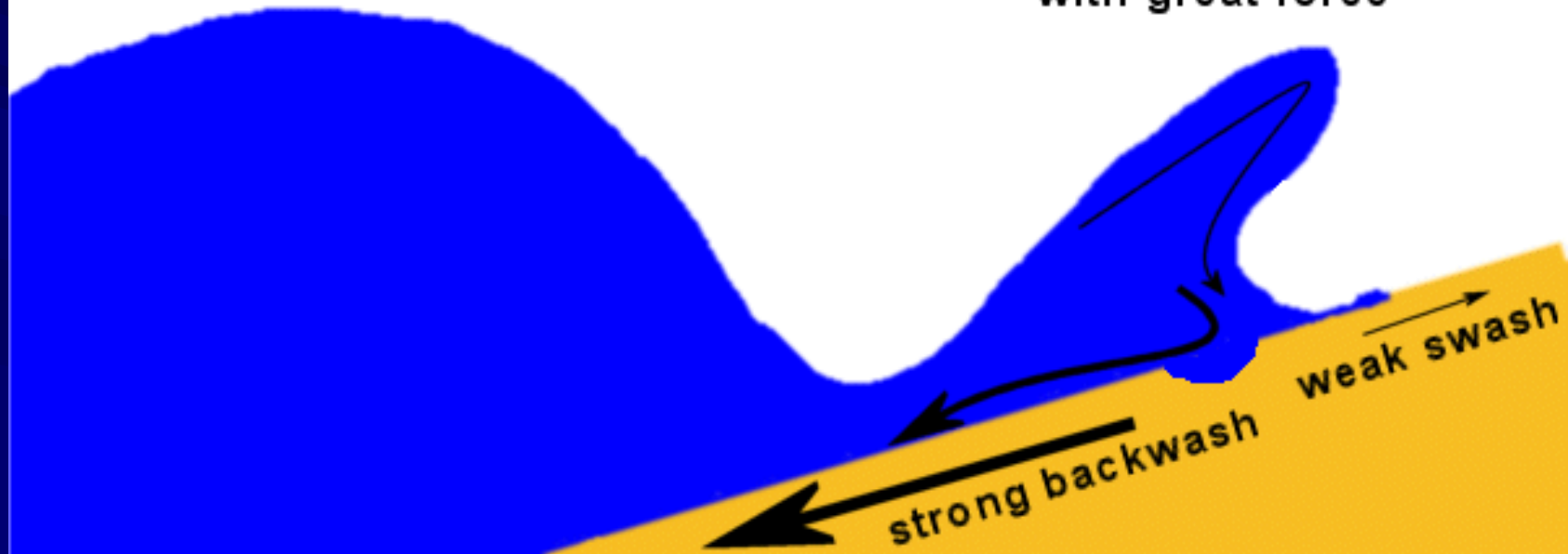
WAVES लाटा

- Size and type of wave will depend on the FETCH and wind speed.
- लाटांचा आकार व प्रकार, वा याचा वेग
- खनन
- वहन
- भरण

Destructive Waves

high wave in
proportion to length

A tall breaker:
It breaks downwards
with great force





Small destructive-type waves reveal siderite nodules beneath flint pebble beach at Taddiford. 19 Oct 2003. *Ian West (c) 2003.*

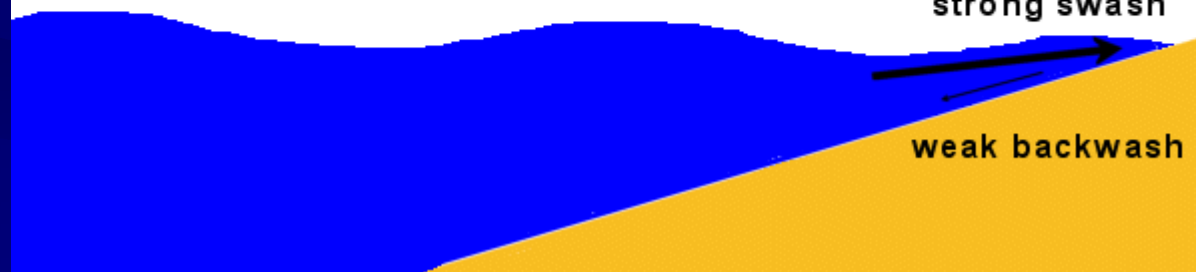


Constructive Waves

low wave in
proportion to length

strong swash

weak backwash













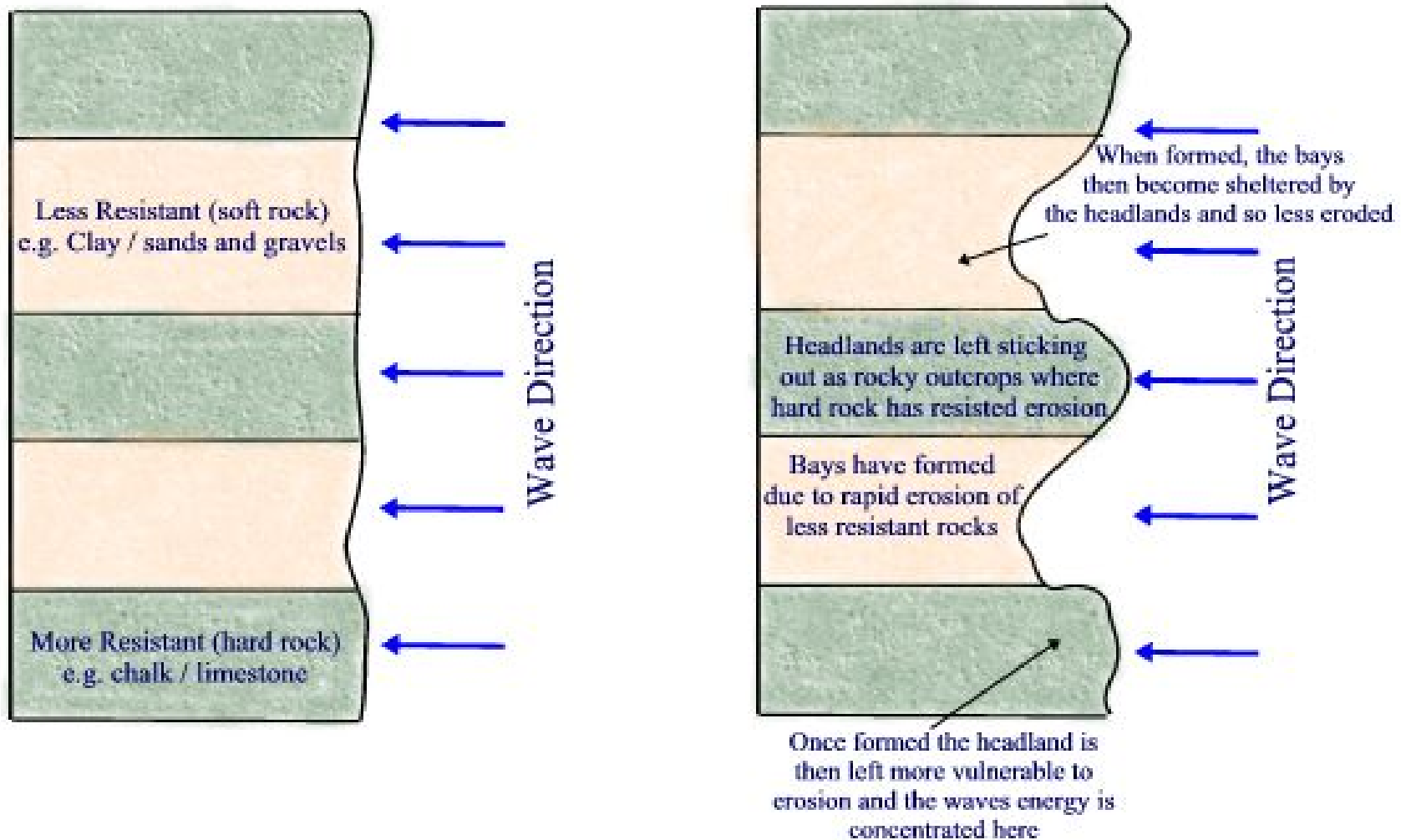
revisionworld 

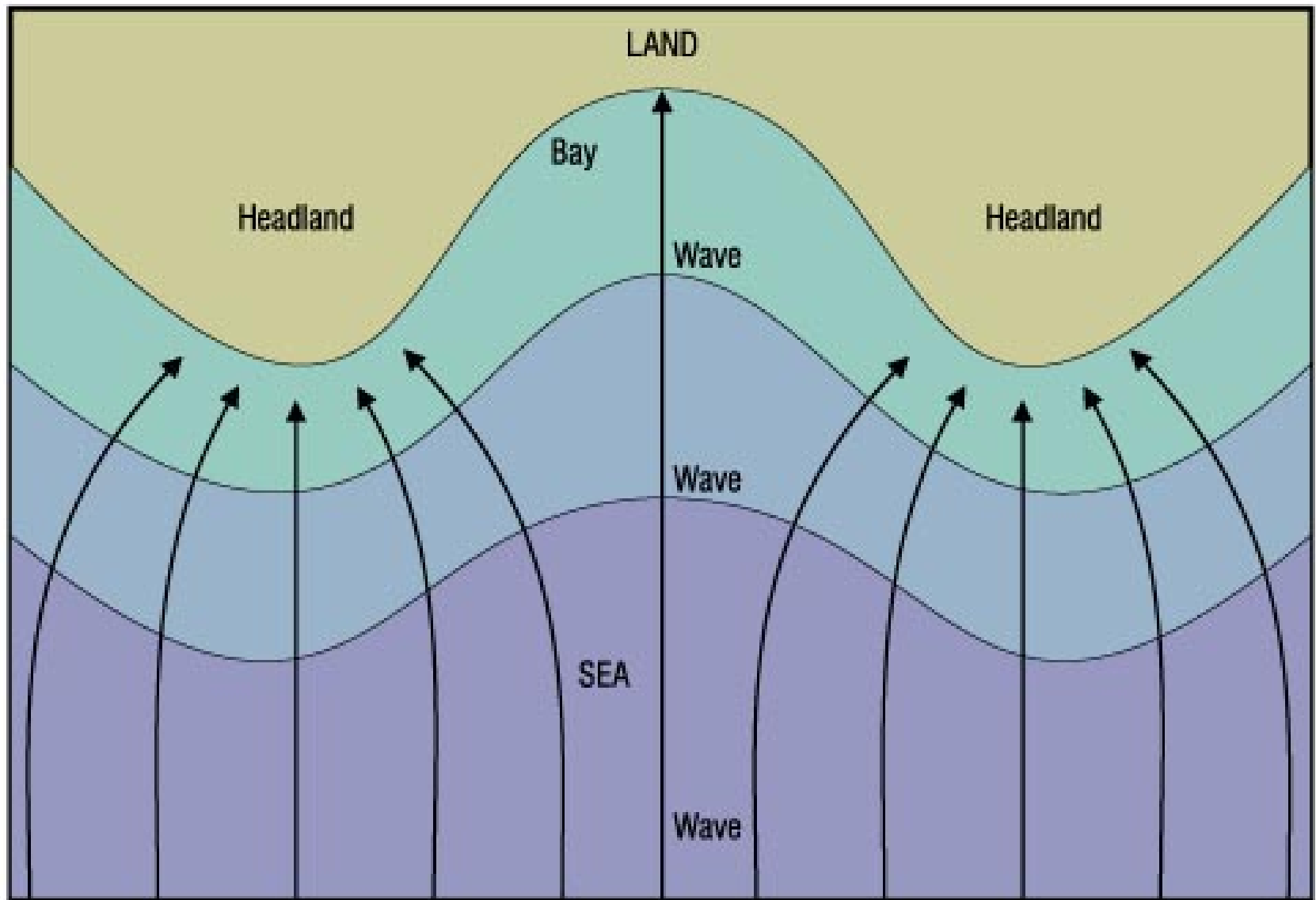
Erosion rates depend on:

झीज घडउन अननारे घटक

- Rock Type खडकाचे प्रकार
- Degree of exposure उतार
- Amount of protective interference by man
- Wave Type लाटांचे प्रकार
- Slope of shoreline किनार पट्टीचा उतार

The Formation of Headlands and Bays

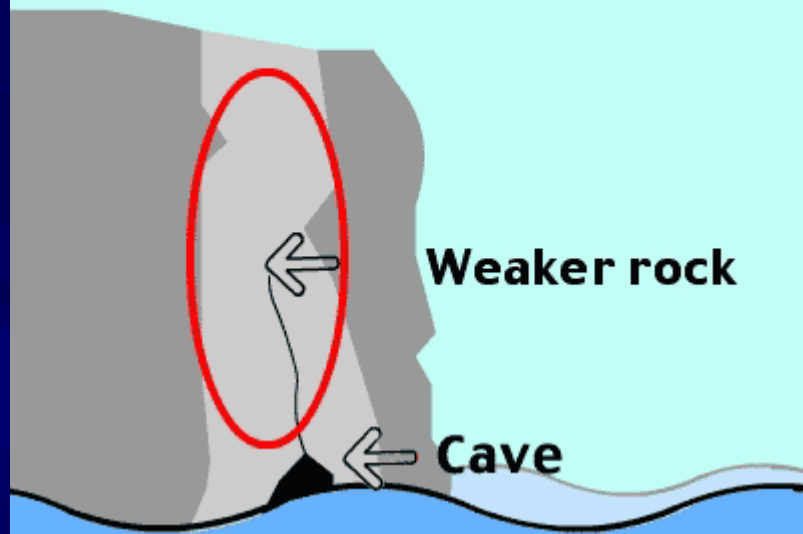




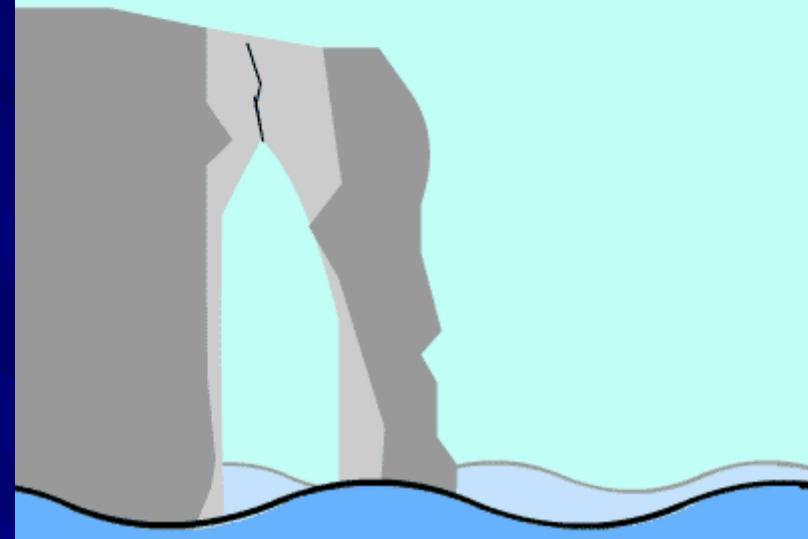
Formation of cave, arch, stack.

- Waves attack weak areas of exposed rock.
- Processes at work?????
- Cave cut into base of cliff/ deepened by abrasion.
- Cave extends through to other side of headland forming an arch.
- Erosion and gravity cause roof of cave to collapse forming a stack.
- Continuous erosion creates a sea stump.
- Example – Old Head Of Kinsale, Co. Cork.

The development of caves into stacks



The sea breaks up the weaker rock and turns the cave into an arch.



The rock that is left standing in the sea is called a stack.



Sea Caves

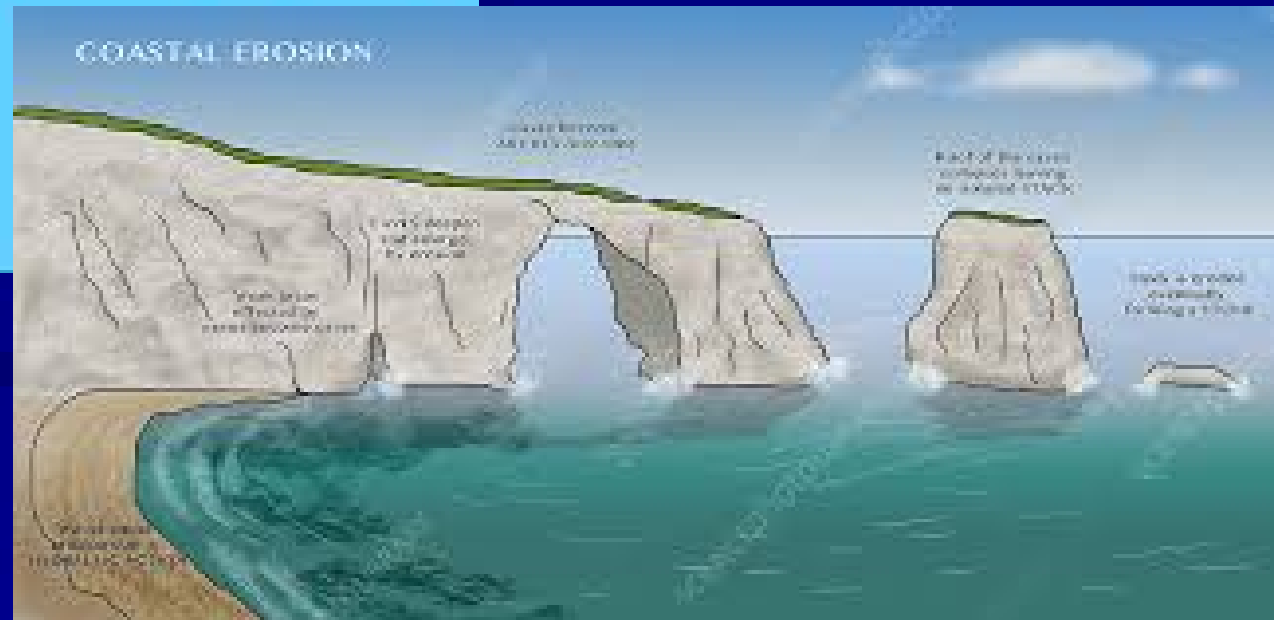
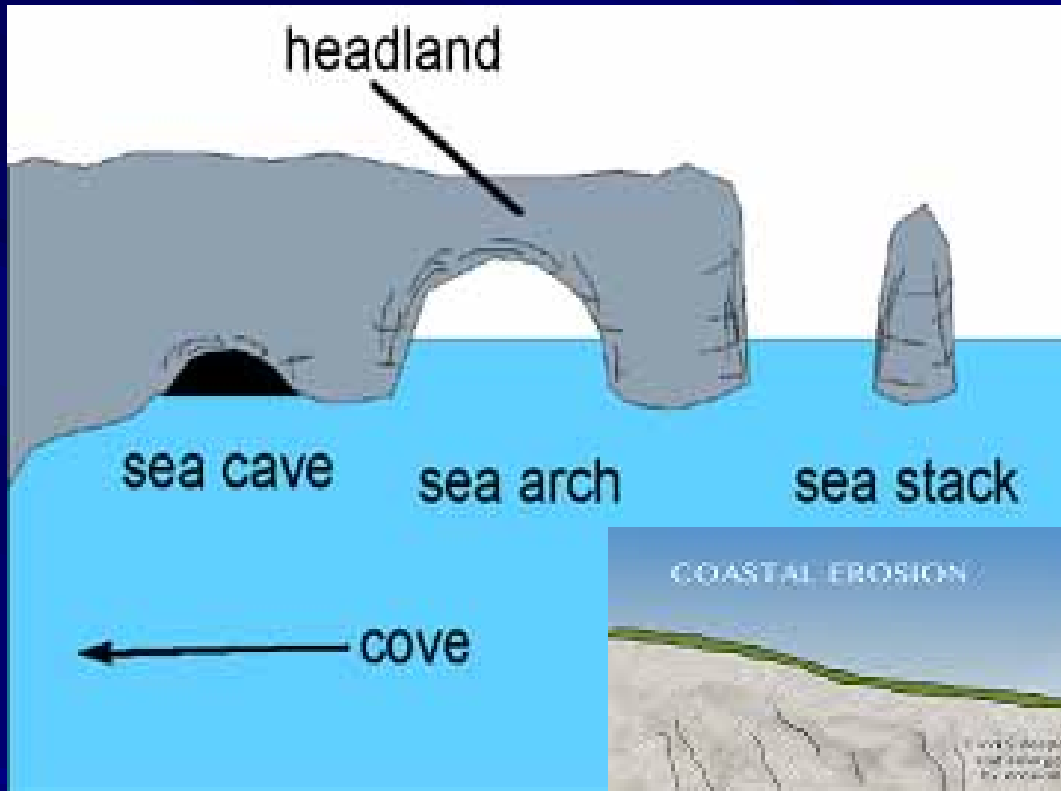
सागरी गुहा

Sea Arch

सागरी कमानी

Sea Stack

सागरी स्तंभ









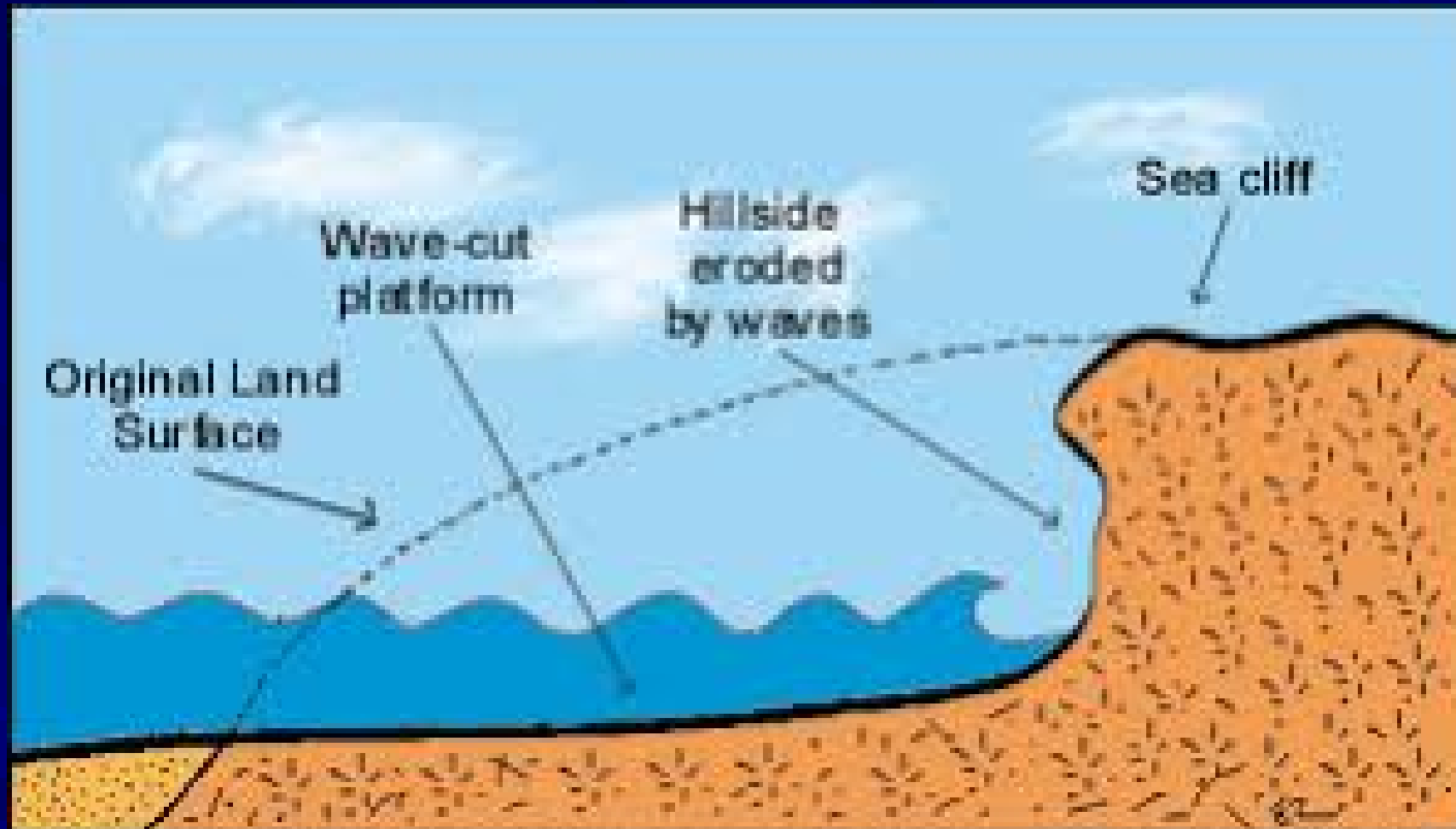




Formation of Sea Cliff.

- Destructive waves attack coast.
- Processes at work ????
- Notch carved out and enlarged.
- Upper slope unsupported/ undermining occurs.
- Due to erosion, weathering and gravity, slope collapses forming a steep face.
- Cliff retreats and increases in height.
- Rock left at base of retreating cliff is a wave cut platform.
- The bigger the platform – the less rate of erosion.
- Example – Cliffs of Moher, Co. Clare.

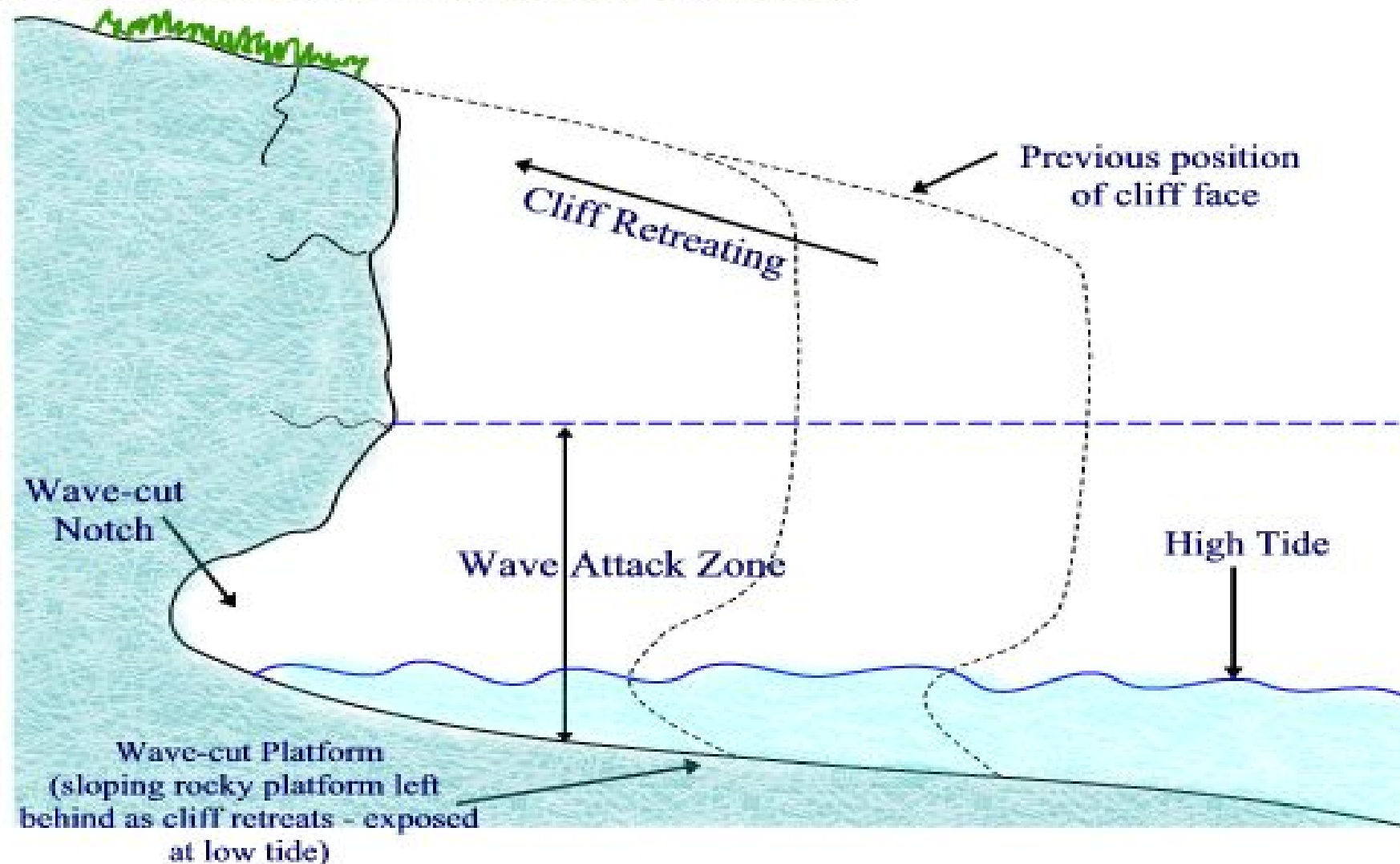
Sea Cliff सागरी कडा



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Cliff Erosion and Wave-cut Platforms





SEA CLIFFS

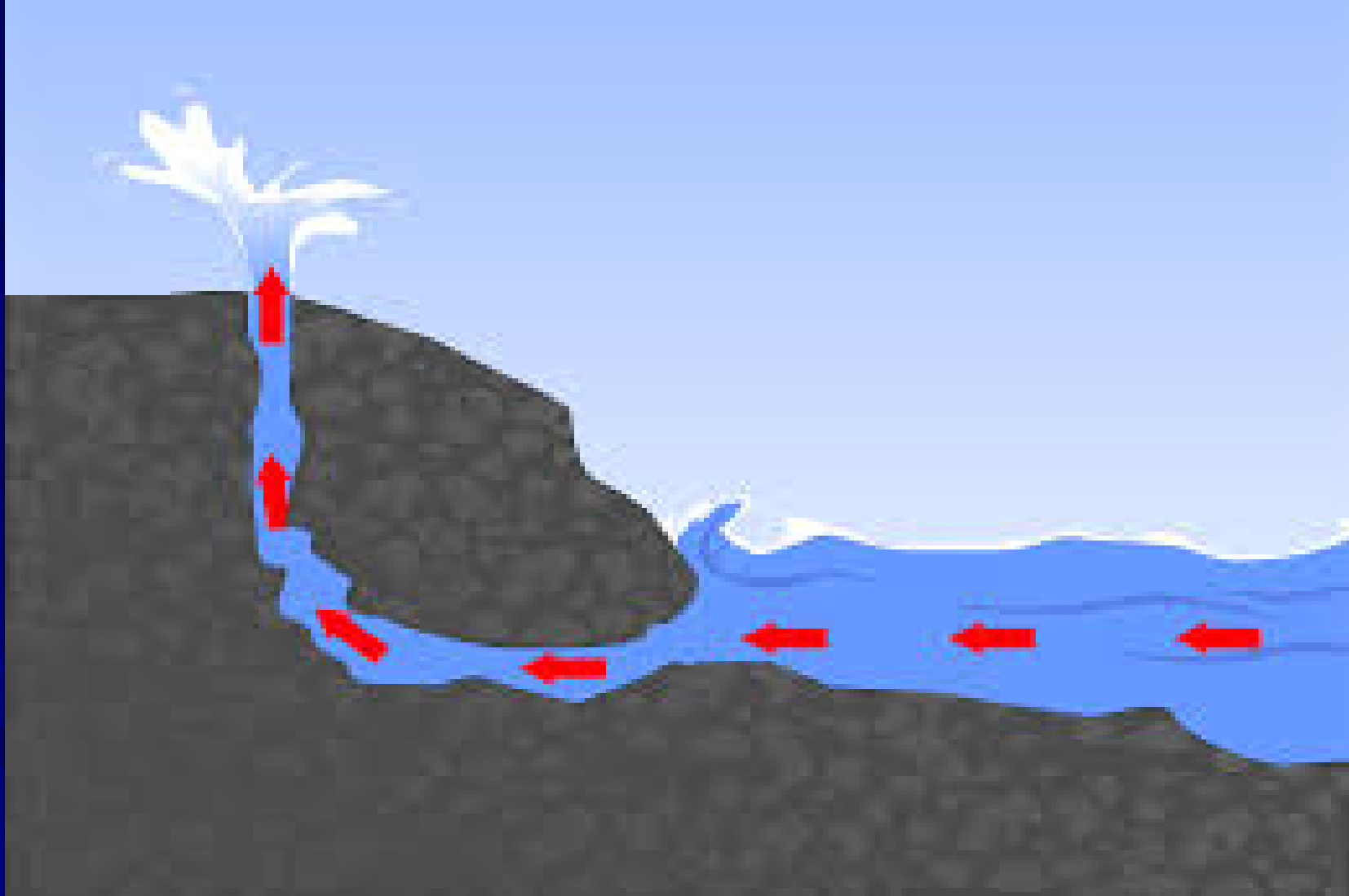








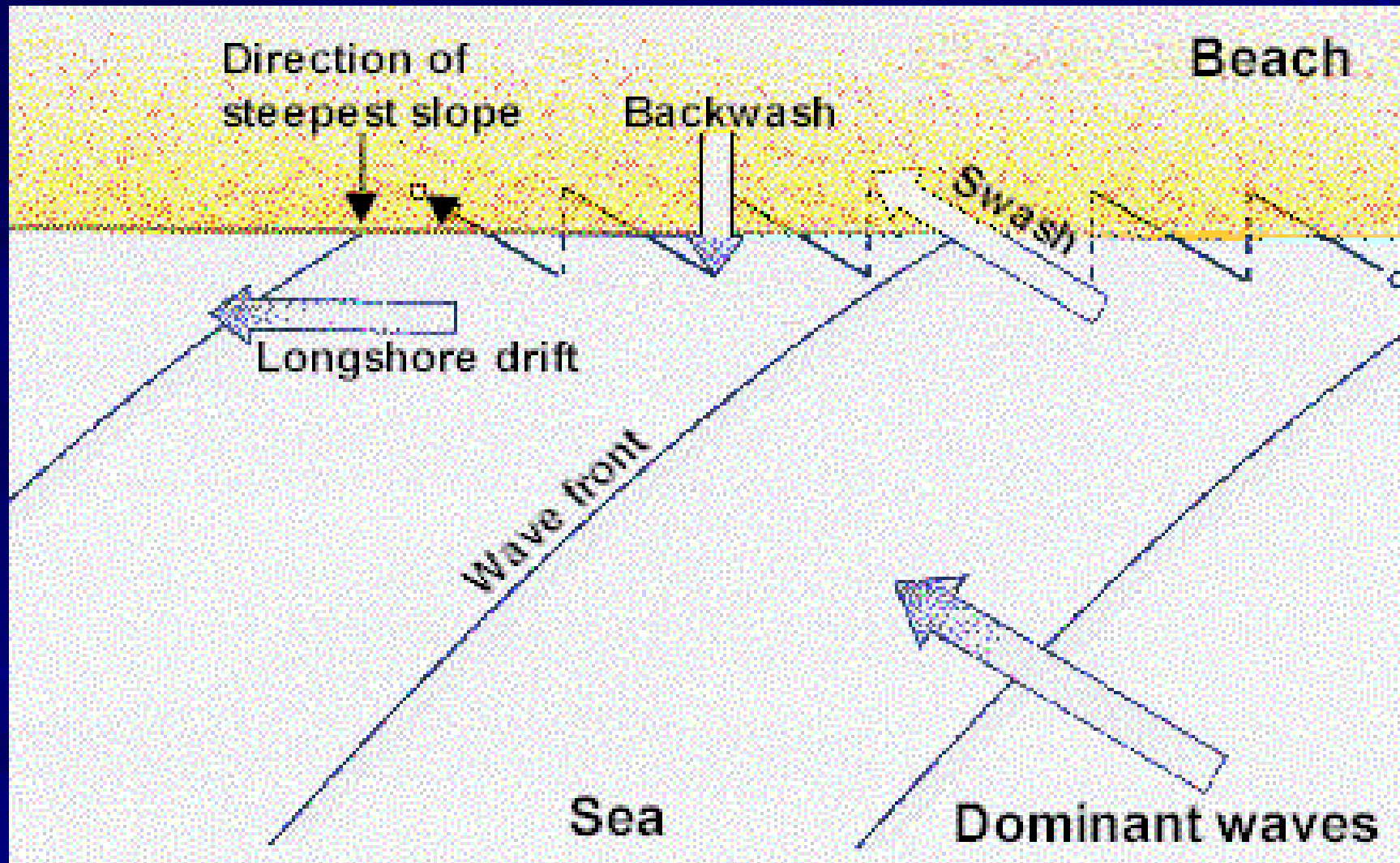
Blow Holes वात विवर, आघात छिद्र

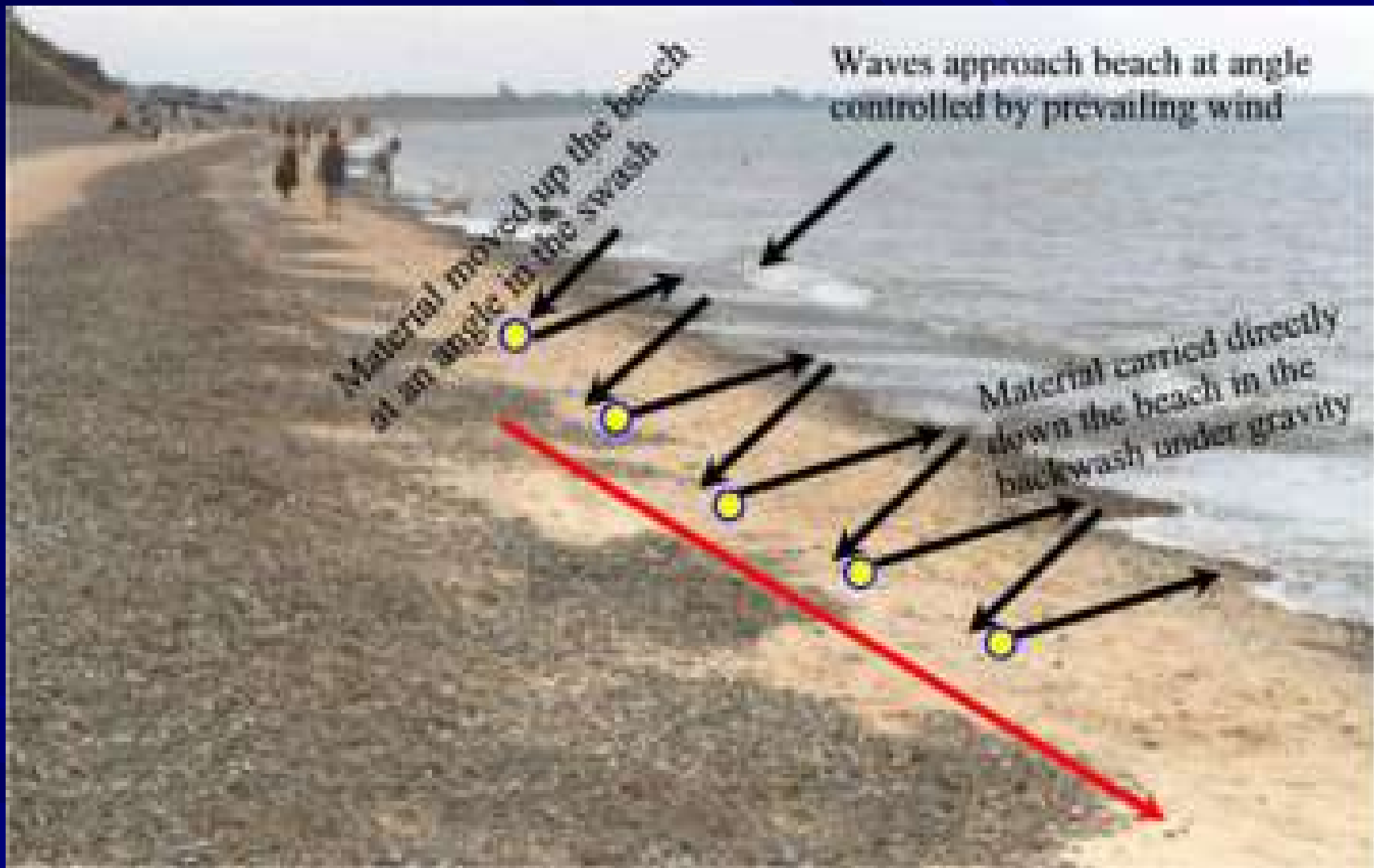


संचयनातून निर्माण होणारी भूरूपे :

Beach पूरण किंवा चौपाटी

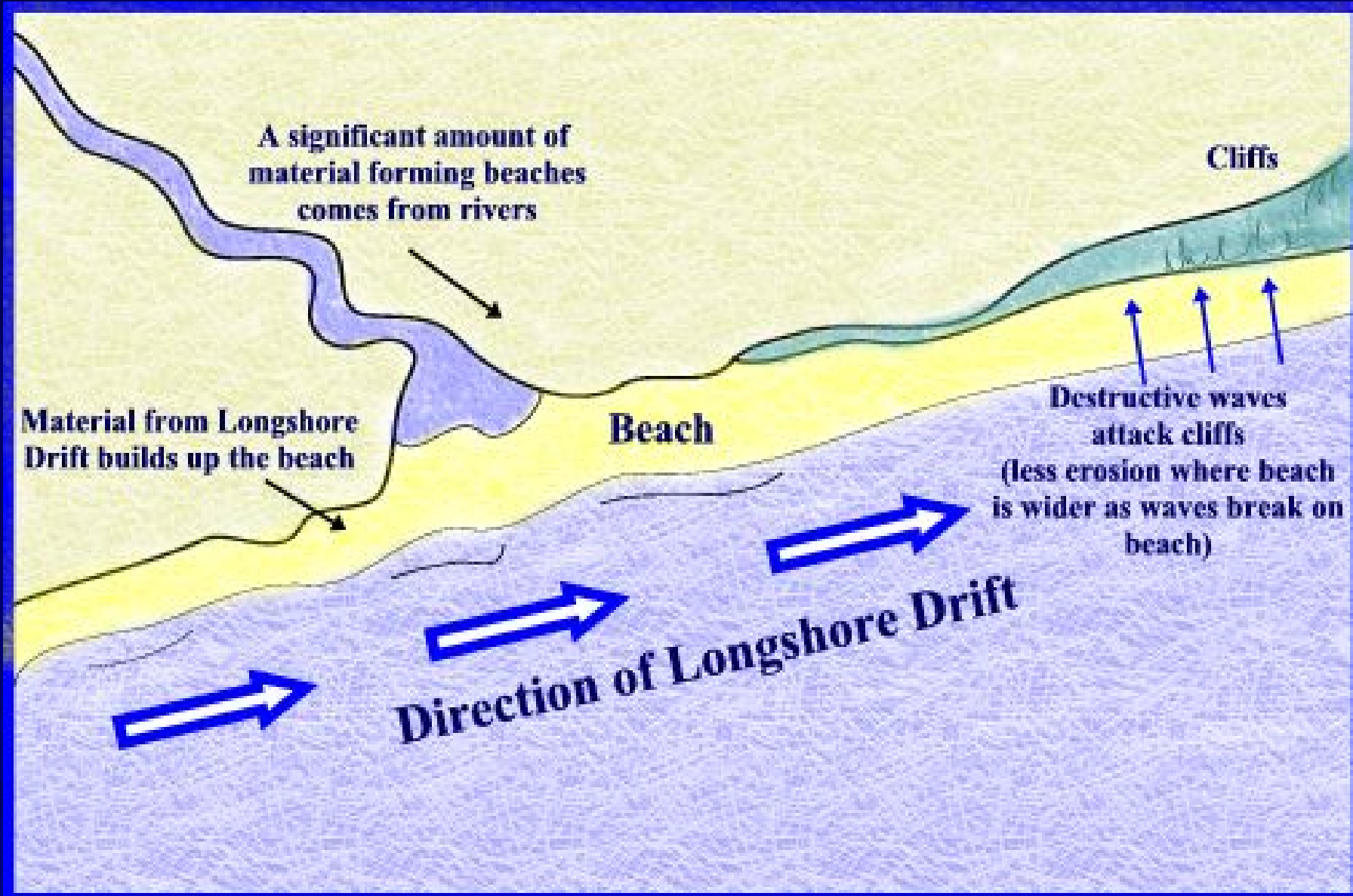




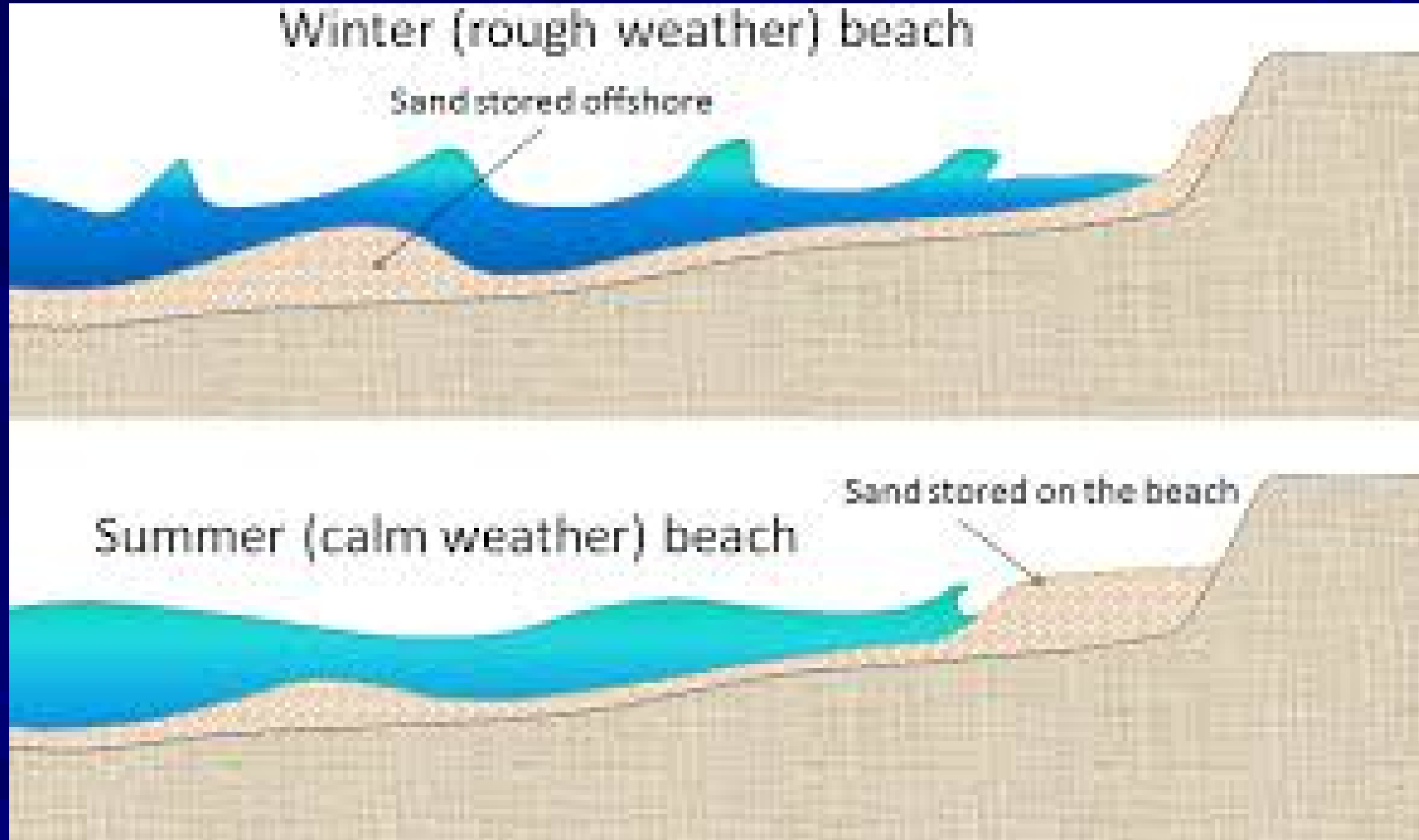


Formation of a Beach.

- Formed by constructive waves.
- Weak backwash allows material to build up higher up the shore and finer material is left closer to shoreline.
- Beach forms between high and low water marks.
- Sections of beach include sandy area/ shingle area and storm beach.
- Example – Skerries.

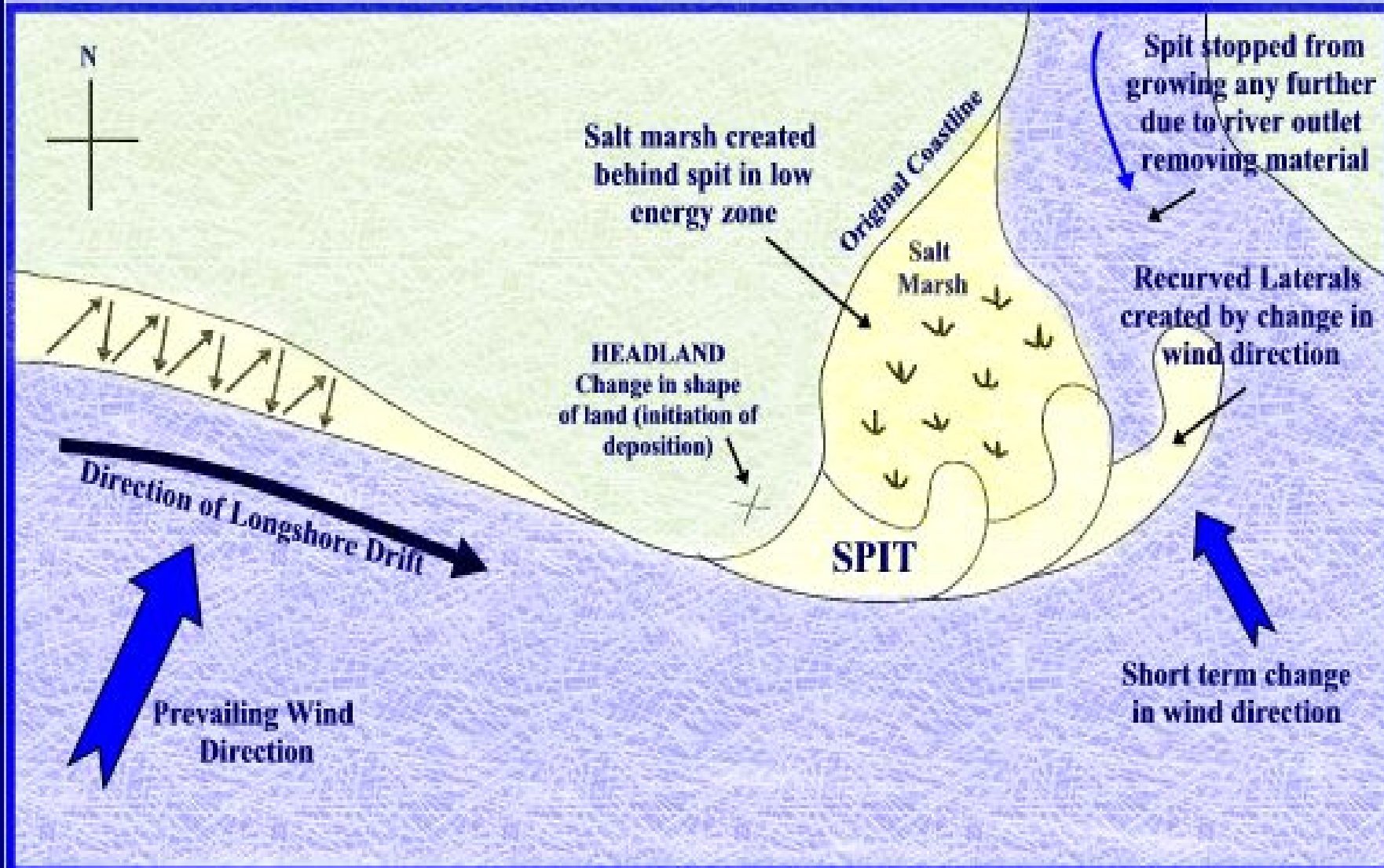


Sandbars वालुका ढांडे



SandSpits जिम्हा व संलब्धन दांडे

The Formation of a Spit

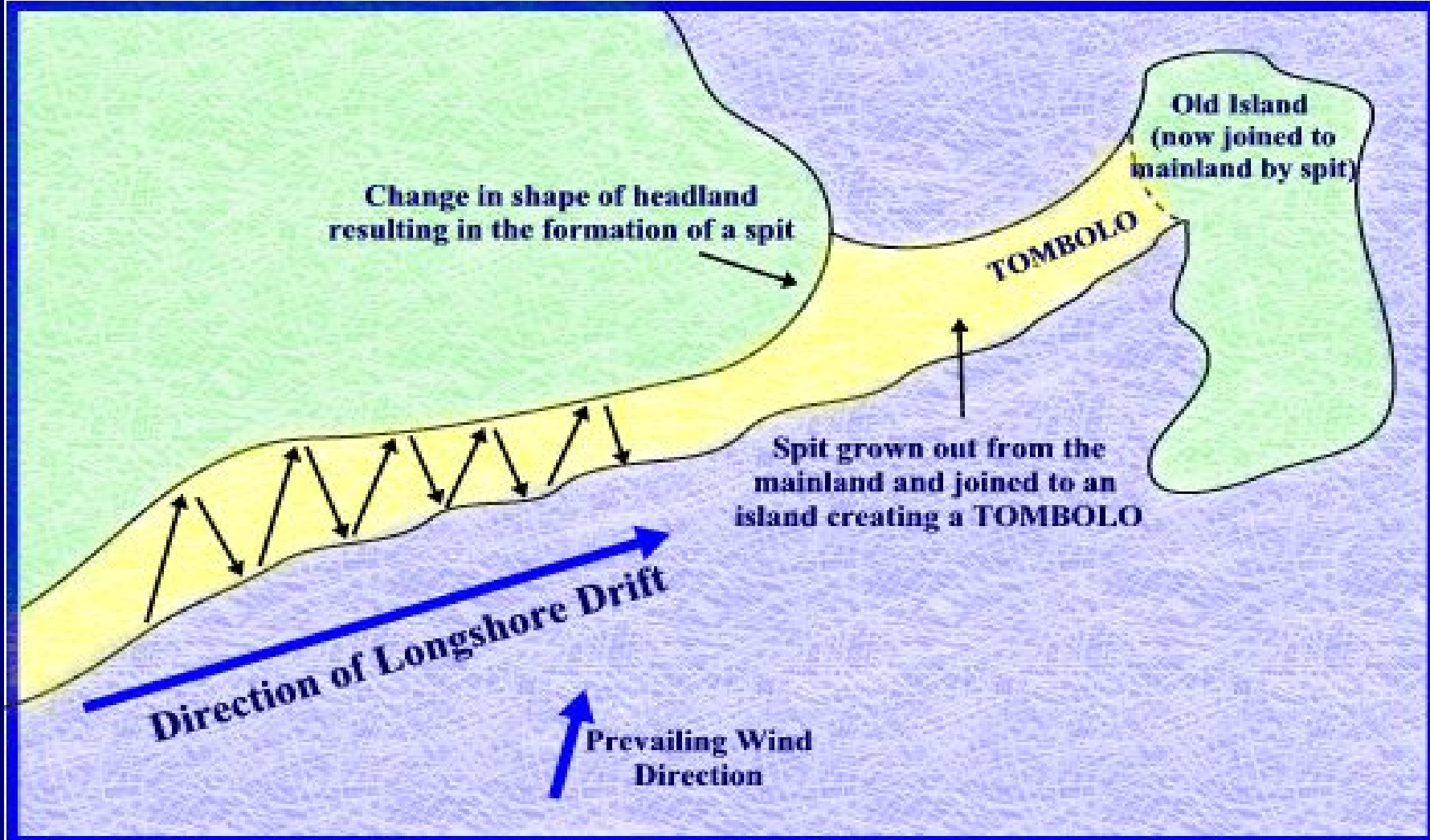




Formation of a Tombolo टोंबोलो.

- Island connects to mainland due to deposition.
- Constructive waves and longshore drift.
- Wave refraction at island causes currents to converge / deposit load.
- Example – Howth to Sutton.

Formation of a Tombolo







समुद्रकिनाऱ्यांचे प्रकार (Types of coasts)

Coasts of Submergence जलमग्न समुद्र किनारे

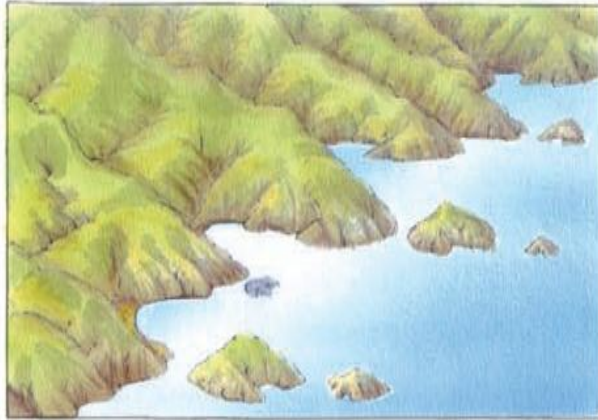


Coasts of Emergance ઉન્મળન સમુદ્ર કિનારે



Neutral Coasts विकृतीशून्य समुद्र किनारे

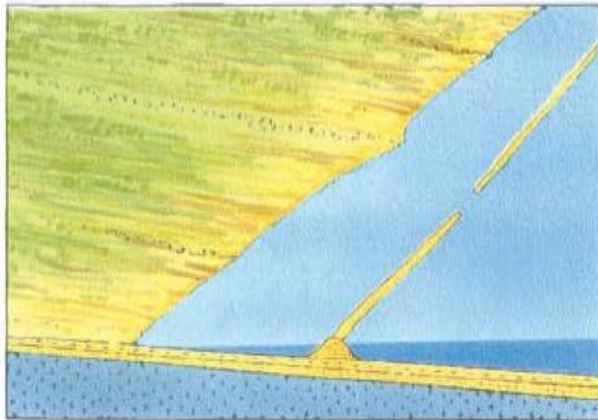




Ria coast



Fjord coast



Barrier-island coast

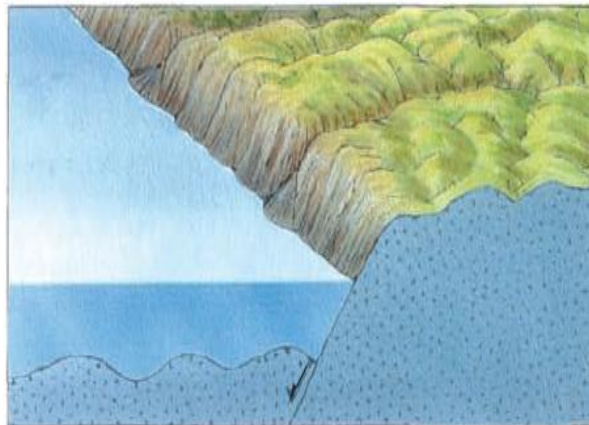


Delta coast



Volcano coast (left)

Coral-reef coast (right)



Fault coast

धन्यवाद