

Wave Formation and Type

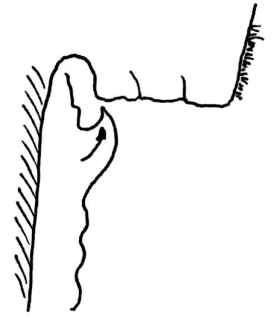


Factors affecting wave strength:-

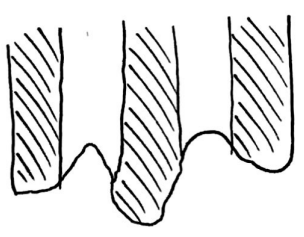
- > WIND SPEED
- > DURATION
- > FRETEN.

COASTAL EROSION FEATURES

① Cliffs and Wave-cut platforms.



② Headland & Bays



DESTRUCTIVE WAVES



Characteristics?

Erode the beach

CONSTRUCTIVE WAVES



Build up the beach.

COASTAL PROCESSES AND LANDFORMS.

DEPOSITION

UNDER WHAT CIRCUMSTANCES WILL MATERIAL BE DEPOSITED?



WEATHERING & EROSION

① Weathering is:-

(a) CHEMICAL WEATHERING

(b) PHYSICAL WEATHERING.

② Coastal Erosion is:-

(a) ABRASION

(b) ATTRITION

(c) HYDRAULIC ACTION/POWER

(d) CORROSION.

MASS MOVEMENT.

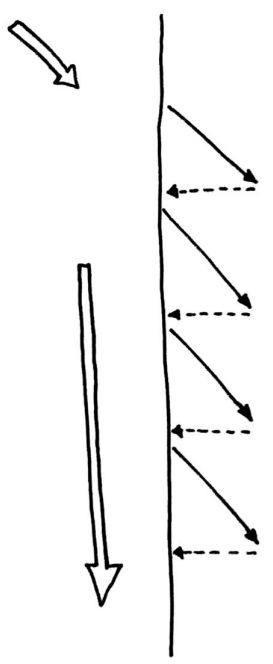
-> SLIDING

-> ROCKFALLS

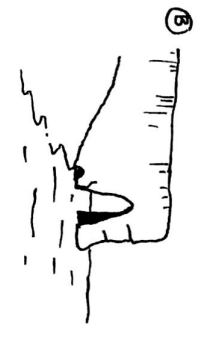
-> SLUMPING.

LONGSHORE DRIFT

-> transport of material along the coastline



③ Erosion of a Headland.



COASTAL DEPOSITION FEATURES

1 BEACHES

Sources of Beach material

Comparing Beach Type
SANDY 'v' SINGLE / PEBBLE

2 SAND DUNES

Sequence of formation...



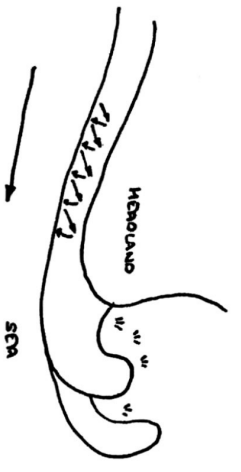
1

2

3

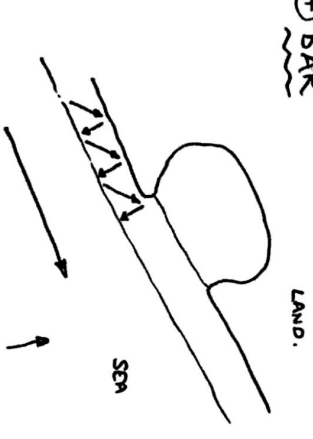
3 SPIT FORMATION

How do spits form:-



4 BAR

How do bars form?



COASTAL MANAGEMENT

3 MANAGED RETREAT

What is it?

1 HARD ENGINEERING

Definition:-

NAMED EXAMPLE -

- 1 SEA WALL
- 2 GROynes
- 3 RIP RAP
- 4 GABIONS.

Advantages?

Disadvantages?

2 SOFT ENGINEERING

Definition:-

- 1 BEACH REPLENISHMENT
- 2 BEACH REPROFILING
- 3 SAND DUNE REGENERATION

MAN WORK?	ADV?	DISADV?

CASE STUDY -> COASTAL MANAGEMENT SCHEME

LYME REGIS

where is it?

Why is erosion a problem here?

What Coastal management schemes have been used here?

DORSET COASTLINE EXAMPLE

Where is it?

Difference in Geology between South & East coast?

NAMED EXAMPLES ON DORSET COAST:

- Headland - Bar -
- Bay - Slack -
- Cuff -

Evaluating coastal management at LYME REGIS.

PROBLEMS?

SUCCESS??