Lesson 2 - Worksheet 1

Present day coastal management at Hurst Spit and Keyhaven

1. Using the two maps below, describe the location of Hurst Spit and Keyhaven.





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2. The OS 1:50,000 map below shows Hurst Spit and Keyhaven. Hurst Spit has been managed for several decades.



(a) Suggest why Hurst Spit has been managed?

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(b) Explain how the construction of groynes and other defences to the west has made Hurst Spit more vulnerable to erosion and Keyhaven more vulnerable to flooding.

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(c) Annotate the map to identify **one** coastal protection measure that has been constructed along this stretch of coast.

3. The photo below shows recent coastal engineering works designed to protect Hurst Castle.



(a) On the photo, use an arrow to locate and label rock armour.
(b) How does rock armour help to protect the coast from erosion?

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(c) Use evidence from the photo to suggest that beach nourishment is taking place.

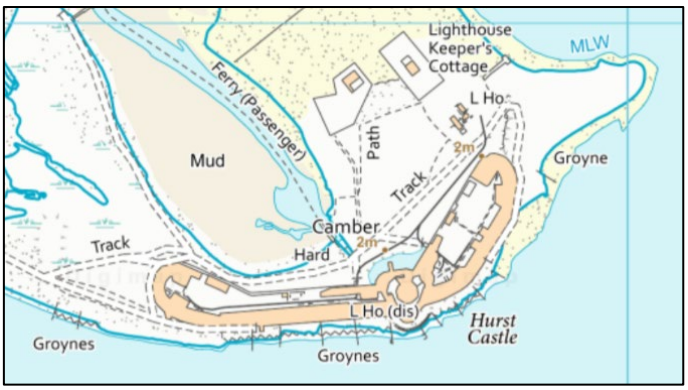
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4. The OS 1:25,000 map extract below shows the spit at Hurst Castle. The dark blue line is the high tide line, marking the edge of the spit.
   (a) Use an arrow to locate and label the rock armour used to protect the castle from erosion. [Hint: look for the zig-zag structures shown in the photo above]
   (b) Look at the photo above. On the map below, shade and label the area of beach nourishment between the rock armour and the castle.
   (c) What is the map evidence that the groynes are effective in trapping sediment carried by longshore drift?

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5. The photo below shows the embankment protecting Keyhaven from flooding.



(a) On the photo, use an arrow to label the embankment.
(b) Explain the purpose of the embankment.

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(c) Describe the area of saltmarsh in the photo.

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(d) Using a diagram, describe how this saltmarsh is threatened by 'coastal squeeze', or provide a written description

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