



The sea wall and promenade in central Cleethorpes. The position to the right of the image is where longshore drift splits to move sediment both to the left and to the right causing the beach to be at its smallest. At high tide and in storm conditions waves attack the sea wall and it is in danger of destruction. It was proposed to build a fish tailed groyne in this position to help build up the beach sediment. This would, however, have had a detrimental impact on tourism.





A close-up view of the sea wall on the central promenade of Cleethorpes shows the damage done by waves to a structure that is beyond its design life. It is clear that repairs have been attempted.



The foundations for the new Lifeboat Station that is being built in central Cleethorpes. This structure may take the place of a groyne and enable the accumulation of more sand to help absorb wave energy and protect the sea wall. It may, however, disrupt longshore drift and shoreline currents and make the deposition of sandy beach more difficult.





A view from the Leisure centre on the central promenade with longshore drift from north to south, towards the photographer. It is clear that the construction of the Leisure Centre had encouraged the accumulation of sand making it less likely that high tide waves will reach the sea wall, as evidenced by the large pale coloured area of dry sand adjacent to the sea wall.





The Leisure Centre itself has been designed with defence from storm waves and surges in mind. The base of the building is a reinforced concrete structure with an overhanging lip to reflect storm waves and surges which have crossed the car park.





The path around the car park is designed to be covered by the sea occasionally as you can see by the strand line of material deposited at high tide in the centre of the path. The edge of the path to the left is protected by vertical steel piling, but the increased accumulation of sand has covered this.





To the south of the Leisure centre the formation of a sand dune belt has been structured into a defensive embankment. This view is towards the sea.



