

Monitoring and research is an important part of Beach Management. Surveys are carried out in order to identify sources of suitable material available for extraction and recycling to the Eastoke promenade area. The better our understanding of coastal processes allows Engineers to design sustainable schemes. The following are examples of the type of monitoring that the Council undertakes:

- Surveys of beach profiles.
- Surveys of seabed bathymetry.
- Sediment Budget Analysis.
- Recording wave heights.
- Recording wind speed and direction.
- Recording tidal data.
- Measurements of current velocity and direction throughout tidal cycle.



## FUTURE

In an attempt to further improve the management of the Eastoke coastline, the Council is working with the Environment Agency to develop an Eastoke Peninsula Strategy Plan. This will identify the preferred coastal management approach for both the southern and the northern frontage. It is hoped that this document will enable the necessary funding to be acquired from central government to continue to protect the Eastoke residents.

Adequate protection at Eastoke Point, around the Nature Reserve, is of crucial importance to the prevention of flooding. Upon approval of the Eastoke Strategy, Council Officers will be carefully considering all options available to improve the present standard of protection.

Advances in technology will enable improvements in the delivery of the coastal defence service, the following are some of these opportunities:

- Use of Global Positioning Systems GPS, satellites to monitor changes in beach levels.
- Use of the Internet to make information available.

The Council has published the East Solent Shoreline Management Plan 1997 on its “web page” which is located at [www.havant.gov.uk/council/Coastal/MainContents.htm](http://www.havant.gov.uk/council/Coastal/MainContents.htm). This document contains a wealth of information on our existing knowledge of the coastline from Pagham Harbour through to the River Hamble and also recommends the preferred approach to future coastal management. You may wish to “Log On” and see for yourself!

Another popular “web site” is [www.chimet.co.uk](http://www.chimet.co.uk), which provide actual measurements of:

- Tidal Heights.
- Wind Speed.
- Wave Heights.
- Temperature.
- Barometric Pressure.



Click for update		Time of Report 23 - 04 16:20
<b>Wind</b> <small>For more details click here</small>		
Wind Speed .....	14 knots	
Highest gust .....	18 knots	
<b>Sea Conditions</b> <small>For more details click here</small>		
Tidal Height .....	1.8 metres	<small>Click here for tidal predictions</small>
Wave Height (mean) .....	0.4 metres	
Wave Height (maximum) .....	0.4 metres	
Wave Periodicity .....	13 seconds	
<b>Temperature/Pressure</b> <small>For more details click here</small>		
Air Temperature .....	12 degrees Celsius	
Sea Temperature .....	12 degrees Celsius	
Barometric Pressure .....	1031.7 millibars	

The provision of this service has been undertaken in partnership with Havant Borough Council, the Chichester Harbour Conservancy, the RNLI and the Chichester Harbour Federation.

## CLIMATE CHANGE

The predicted effects of climate change and sea level rise present a significant challenge for future coastal management. It is anticipated that there will be increased risk to many coastal assets. Key pressures are identified as follows:

- Increased problems of overtopping of existing defence structures due to sea level rise.
- Increased beach volatility and increasing sea levels will mean beach recharge schemes may require increased material volumes.
- Diminishing beaches and marshes in front of defences reducing both support and protection of structures.
- Higher sea levels will result in greater wave heights at the shoreline, resulting in increased wave forces on structures.
- Potential changes in patterns of longshore drift could result in altered patterns of erosion and deposition.
- Increased potential for 'flash flooding' of low-lying areas by intense rainfall events.
- Erosion and 'squeeze' of inter tidal habitats between rising sea levels and existing or new coastal defences.

## The Coastal Defence Team

The Coastal Defence Team at Havant Borough Council will continue to develop our understanding of the problems associated with the management of the Borough's Coastline. For more information contact the team at The Public Services Directorate, Havant Borough Council, Civic Offices, Civic Centre Road, Havant, PO9 2AX.

